## Project Holes

Started between 4/01/15 0:00 and 5/30/15 0:00
Total number of holes: 2,406

### Hole: A1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:44:09 | 30.51 | 30.21 | 1,119 | 0.59 | 0.36 | 61.2 |
| 4/17/2015 6:44:10 | 30.84 | 30.54 | 1,119 | 0.59 | 0.36 | 61.2 |
| 4/17/2015 6:44:10 | 31.17 | 30.87 | 1,134 | 0.58 | 0.36 | 62.0 |
| 4/17/2015 6:44:10 | 31.50 | 31.20 | 1,134 | 0.58 | 0.36 | 62.0 |
| 4/17/2015 6:44:10 | 31.82 | 31.52 | 1,154 | 0.58 | 0.36 | 63.1 |
| 4/17/2015 6:44:11 | 32.15 | 31.85 | 1,151 | 0.58 | 0.36 | 62.9 |
| 4/17/2015 6:44:11 | 32.48 | 32.18 | 1,151 | 0.58 | 0.36 | 62.9 |
| 4/17/2015 6:45:07 | 32.81 | 32.51 | 18 | 4.47 | 0.48 | 1.0 |
| 4/17/2015 6:45:09 | 33.14 | 32.84 | 83 | 4.28 | 0.48 | 4.5 |
| 4/17/2015 6:45:10 | 33.46 | 33.16 | 253 | 4.85 | 0.47 | 13.9 |
| 4/17/2015 6:45:10 | 33.79 | 33.49 | 311 | 4.62 | 0.46 | 17.0 |
| 4/17/2015 6:45:11 | 34.12 | 33.82 | 393 | 3.22 | 0.44 | 21.5 |
| 4/17/2015 6:45:11 | 34.45 | 34.15 | 393 | 3.39 | 0.44 | 21.5 |
| 4/17/2015 6:45:12 | 34.78 | 34.48 | 393 | 3.39 | 0.44 | 21.5 |
| 4/17/2015 6:45:12 | 35.11 | 34.81 | 546 | 4.78 | 0.46 | 29.9 |
| 4/17/2015 6:45:13 | 35.43 | 35.13 | 553 | 3.88 | 0.48 | 30.2 |
| 4/17/2015 6:45:14 | 35.76 | 35.46 | 517 | 4.24 | 0.47 | 28.3 |
| 4/17/2015 6:45:15 | 36.09 | 35.79 | 389 | 3.69 | 0.44 | 21.3 |
| 4/17/2015 6:45:15 | 36.42 | 36.12 | 448 | 4.13 | 0.47 | 24.5 |
| 4/17/2015 6:45:16 | 36.75 | 36.45 | 502 | 4.00 | 0.46 | 27.5 |
| 4/17/2015 6:45:16 | 37.07 | 36.77 | 542 | 4.11 | 0.50 | 29.6 |
| 4/17/2015 6:45:22 | 37.40 | 37.10 | 0 | 5.63 | 0.47 | 0.0 |
| 4/17/2015 6:45:25 | 37.73 | 37.43 | 103 | 4.76 | 0.44 | 5.6 |
| 4/17/2015 6:45:25 | 38.06 | 37.76 | 209 | 4.31 | 0.45 | 11.4 |
| 4/17/2015 6:45:27 | 38.39 | 38.09 | 368 | 4.93 | 0.45 | 20.1 |
| 4/17/2015 6:45:28 | 38.71 | 38.41 | 395 | 4.09 | 0.48 | 21.6 |
| 4/17/2015 6:45:30 | 39.04 | 38.74 | 238 | 4.24 | 0.46 | 13.0 |
| 4/17/2015 6:45:33 | 39.37 | 39.07 | 107 | 4.46 | 0.46 | 5.9 |
| 4/17/2015 6:45:38 | 39.70 | 39.40 | 53 | 4.71 | 0.49 | 2.9 |
| 4/17/2015 6:45:46 | 40.03 | 39.73 | 47 | 4.62 | 0.48 | 2.6 |
| 4/17/2015 6:45:53 | 40.35 | 40.05 | 58 | 4.61 | 0.48 | 3.2 |
| 4/17/2015 6:45:59 | 40.68 | 40.38 | 61 | 4.51 | 0.46 | 3.4 |
| 4/17/2015 6:46:06 | 41.01 | 40.71 | 38 | 4.68 | 0.47 | 2.1 |
| 4/17/2015 6:46:14 | 41.34 | 41.04 | 42 | 4.45 | 0.48 | 2.3 |
| 4/17/2015 6:46:21 | 41.67 | 41.37 | 51 | 4.71 | 0.45 | 2.8 |
| 4/17/2015 6:46:27 | 41.99 | 41.69 | 64 | 5.28 | 0.48 | 3.5 |
| 4/17/2015 6:46:34 | 42.32 | 42.02 | 55 | 4.55 | 0.46 | 3.0 |
| 4/17/2015 6:46:39 | 42.65 | 42.35 | 48 | 5.07 | 0.44 | 2.6 |
| 4/17/2015 6:46:46 | 42.98 | 42.68 | 58 | 4.51 | 0.45 | 3.1 |
| 4/17/2015 6:46:52 | 43.31 | 43.01 | 70 | 4.63 | 0.48 | 3.8 |
| 4/17/2015 6:46:58 | 43.64 | 43.34 | 57 | 4.56 | 0.45 | 3.1 |
| 4/17/2015 6:47:05 | 43.96 | 43.66 | 55 | 4.72 | 0.48 | 3.0 |
| 4/17/2015 6:47:13 | 44.29 | 43.99 | 44 | 5.16 | 0.46 | 2.4 |
| 4/17/2015 6:47:20 | 44.62 | 44.32 | 46 | 5.03 | 0.45 | 2.5 |
| 4/17/2015 6:47:28 | 44.95 | 44.65 | 45 | 4.83 | 0.48 | 2.5 |
| 4/17/2015 6:47:37 | 45.28 | 44.98 | 45 | 4.74 | 0.46 | 2.4 |
| 4/17/2015 6:47:45 | 45.60 | 45.30 | 43 | 4.76 | 0.47 | 2.4 |
| 4/17/2015 6:47:54 | 45.93 | 45.63 | 38 | 4.84 | 0.44 | 2.1 |
| 4/17/2015 6:48:01 | 46.26 | 45.96 | 48 | 4.89 | 0.44 | 2.6 |
| 4/17/2015 6:48:12 | 46.59 | 46.29 | 22 | 5.04 | 0.47 | 1.2 |
| 4/17/2015 6:48:27 | 46.92 | 46.62 | 30 | 4.70 | 0.44 | 1.6 |
| 4/17/2015 6:48:37 | 47.24 | 46.94 | 33 | 4.77 | 0.47 | 1.8 |
| 4/17/2015 6:48:49 | 47.57 | 47.27 | 23 | 5.55 | 0.44 | 1.2 |
| 4/17/2015 6:49:41 | 47.90 | 47.60 | 4 | 6.41 | 0.39 | 0.2 |
| 4/17/2015 6:50:20 | 48.01 | 47.71 | 3 | 6.31 | 0.38 | 0.2 |

## A1 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:39:55

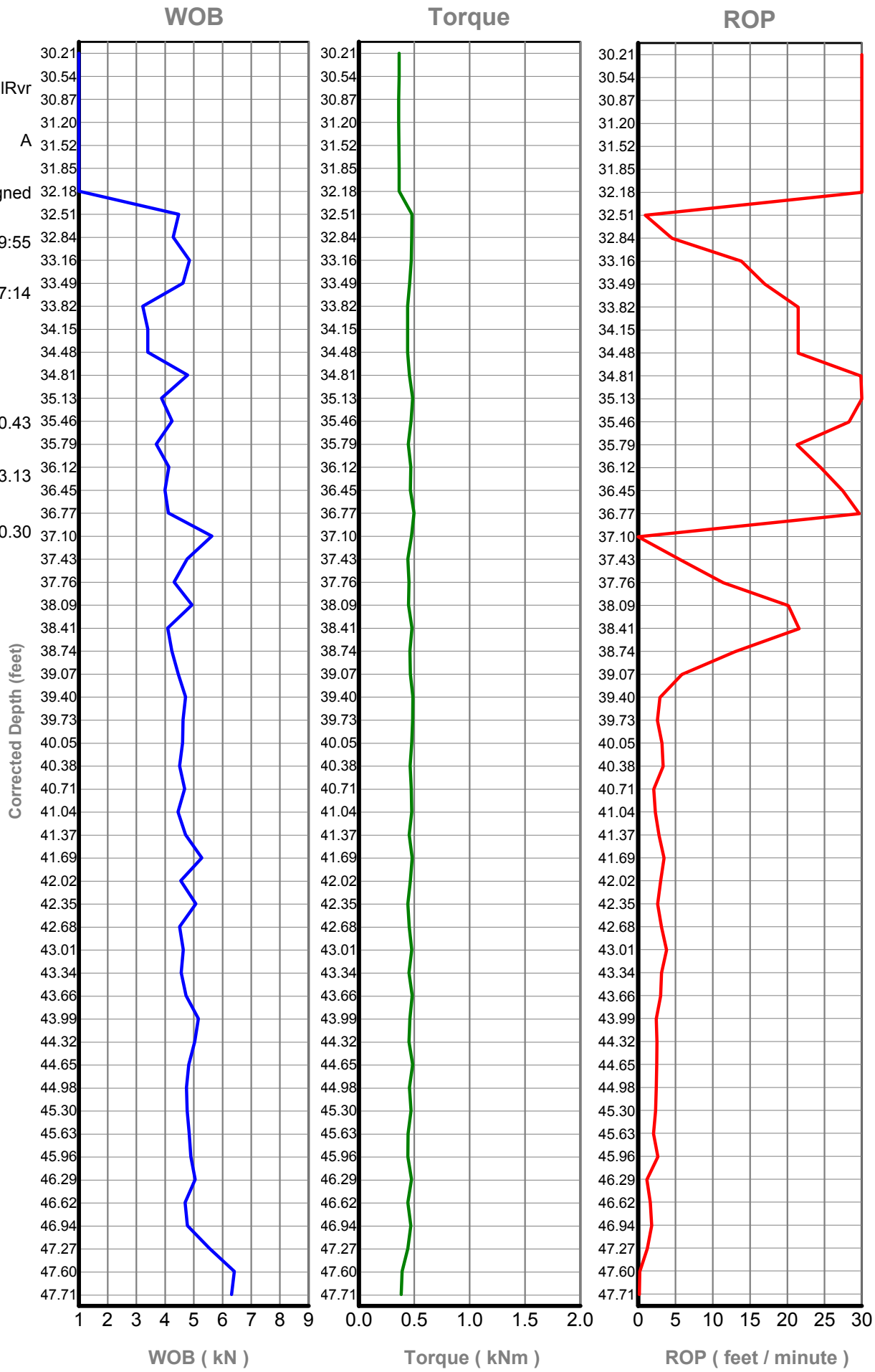
**End Date:**
4/17/2015 7:47:14

**Operator Note:**
'0.3 .6 a Auto Complete'

**Northing:**
371,630.43

**Easting:**
259,513.13

**Tide (feet):**
0.30



## Hole: A10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:14:56 | 30.84 | 30.04 | 1,078 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 6:14:55 | 31.17 | 30.37 | 1,097 | 0.29 | 0.42 | 60.0 |
| 4/17/2015 6:15:20 | 31.50 | 30.70 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 6:15:22 | 31.82 | 31.02 | 3 | 0.29 | 0.42 | 0.2 |
| 4/17/2015 6:15:23 | 32.15 | 31.35 | 153 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 6:15:23 | 32.48 | 31.68 | 356 | 0.29 | 0.42 | 19.5 |
| 4/17/2015 6:15:24 | 32.81 | 32.01 | 356 | 0.29 | 0.42 | 19.5 |
| 4/17/2015 6:15:24 | 33.14 | 32.34 | 576 | 0.29 | 0.42 | 31.5 |
| 4/17/2015 6:15:24 | 33.46 | 32.66 | 785 | 0.29 | 0.42 | 42.9 |
| 4/17/2015 6:15:25 | 33.79 | 32.99 | 785 | 0.29 | 0.42 | 42.9 |
| 4/17/2015 6:15:25 | 34.12 | 33.32 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 6:15:25 | 34.45 | 33.65 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 6:15:26 | 34.78 | 33.98 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 6:15:26 | 35.11 | 34.31 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 6:15:26 | 35.43 | 34.63 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 6:15:27 | 35.76 | 34.96 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 6:15:27 | 36.09 | 35.29 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 6:15:27 | 36.42 | 35.62 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 6:15:28 | 36.75 | 35.95 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 6:15:28 | 37.07 | 36.27 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 6:15:28 | 37.40 | 36.60 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 6:15:29 | 37.73 | 36.93 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 6:15:29 | 38.06 | 37.26 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 6:15:29 | 38.39 | 37.59 | 1,049 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 6:15:30 | 38.71 | 37.91 | 1,049 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 6:15:30 | 39.04 | 38.24 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 6:15:30 | 39.37 | 38.57 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 6:17:20 | 39.70 | 38.90 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 6:17:23 | 40.03 | 39.23 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 6:17:27 | 40.35 | 39.55 | 114 | 0.29 | 0.42 | 6.2 |
| 4/17/2015 6:17:43 | 40.68 | 39.88 | 24 | 0.29 | 0.42 | 1.3 |
| 4/17/2015 6:17:46 | 41.01 | 40.21 | 104 | 0.29 | 0.42 | 5.7 |
| 4/17/2015 6:17:49 | 41.34 | 40.54 | 125 | 0.29 | 0.42 | 6.8 |
| 4/17/2015 6:17:52 | 41.67 | 40.87 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 6:17:57 | 41.99 | 41.19 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 6:18:03 | 42.32 | 41.52 | 35 | 0.29 | 0.42 | 1.9 |
| 4/17/2015 6:19:31 | 42.65 | 41.85 | 38 | 0.29 | 0.42 | 2.1 |
| 4/17/2015 6:19:41 | 42.98 | 42.18 | 38 | 0.29 | 0.42 | 2.1 |
| 4/17/2015 6:19:49 | 43.31 | 42.51 | 38 | 0.29 | 0.42 | 2.1 |
| 4/17/2015 6:19:58 | 43.64 | 42.84 | 43 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 6:20:05 | 43.92 | 43.12 | 47 | 0.29 | 0.42 | 2.6 |

## A10 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:09:27

**End Date:**
4/17/2015 6:24:17

**Operator Note:**
'0.8 .9 b Auto Complete'

**Northing:**
371,558.16

**Easting:**
259,589.00

**Tide (feet):**
0.80



## Hole: A1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 16:25:33 | 32.81 | 30.01 | 1,171 | 0.47 | 0.32 | 64.0 |
| 4/17/2015 16:25:33 | 33.14 | 30.34 | 1,168 | 0.47 | 0.32 | 63.9 |
| 4/17/2015 16:25:34 | 33.46 | 30.66 | 1,168 | 0.47 | 0.32 | 63.9 |
| 4/17/2015 16:25:34 | 33.79 | 30.99 | 1,158 | 0.47 | 0.32 | 63.3 |
| 4/17/2015 16:25:34 | 34.12 | 31.32 | 1,175 | 0.46 | 0.32 | 64.3 |
| 4/17/2015 16:25:35 | 34.45 | 31.65 | 1,175 | 0.46 | 0.32 | 64.3 |
| 4/17/2015 16:25:35 | 34.78 | 31.98 | 1,136 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 16:25:35 | 35.11 | 32.31 | 1,136 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 16:25:35 | 35.43 | 32.63 | 1,136 | 0.46 | 0.33 | 62.1 |
| 4/17/2015 16:25:36 | 35.76 | 32.96 | 1,136 | 0.46 | 0.33 | 62.1 |
| 4/17/2015 16:25:36 | 36.09 | 33.29 | 1,162 | 0.45 | 0.33 | 63.6 |
| 4/17/2015 16:25:36 | 36.42 | 33.62 | 1,161 | 0.46 | 0.33 | 63.5 |
| 4/17/2015 16:25:37 | 36.75 | 33.95 | 1,161 | 0.46 | 0.33 | 63.5 |
| 4/17/2015 16:25:37 | 37.07 | 34.27 | 1,181 | 0.46 | 0.32 | 64.6 |
| 4/17/2015 16:25:37 | 37.40 | 34.60 | 1,181 | 0.46 | 0.32 | 64.6 |
| 4/17/2015 16:25:37 | 37.73 | 34.93 | 1,163 | 0.46 | 0.32 | 63.6 |
| 4/17/2015 16:25:38 | 38.06 | 35.26 | 1,193 | 0.45 | 0.32 | 65.3 |
| 4/17/2015 16:25:38 | 38.39 | 35.59 | 1,193 | 0.45 | 0.32 | 65.3 |
| 4/17/2015 16:25:38 | 38.71 | 35.91 | 1,177 | 0.46 | 0.33 | 64.3 |
| 4/17/2015 16:25:39 | 39.04 | 36.24 | 1,177 | 0.46 | 0.33 | 64.3 |
| 4/17/2015 16:25:39 | 39.37 | 36.57 | 1,174 | 0.46 | 0.32 | 64.2 |
| 4/17/2015 16:25:39 | 39.70 | 36.90 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 16:25:40 | 40.03 | 37.23 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 16:25:40 | 40.35 | 37.55 | 1,164 | 0.46 | 0.32 | 63.7 |
| 4/17/2015 16:25:40 | 40.68 | 37.88 | 1,164 | 0.46 | 0.32 | 63.7 |
| 4/17/2015 16:25:40 | 41.01 | 38.21 | 1,174 | 0.46 | 0.32 | 64.2 |
| 4/17/2015 16:25:41 | 41.34 | 38.54 | 1,174 | 0.46 | 0.32 | 64.2 |
| 4/17/2015 16:25:41 | 41.67 | 38.87 | 1,168 | 0.46 | 0.32 | 63.9 |
| 4/17/2015 16:25:41 | 41.99 | 39.19 | 1,168 | 0.47 | 0.32 | 63.9 |
| 4/17/2015 16:25:42 | 42.32 | 39.52 | 1,168 | 0.47 | 0.32 | 63.9 |
| 4/17/2015 16:25:42 | 42.65 | 39.85 | 1,155 | 0.46 | 0.33 | 63.1 |
| 4/17/2015 16:25:42 | 42.98 | 40.18 | 1,155 | 0.46 | 0.33 | 63.1 |
| 4/17/2015 16:25:42 | 43.31 | 40.51 | 1,179 | 0.45 | 0.33 | 64.4 |
| 4/17/2015 16:25:43 | 43.64 | 40.84 | 1,169 | 0.46 | 0.32 | 63.9 |
| 4/17/2015 16:25:43 | 43.96 | 41.16 | 1,169 | 0.46 | 0.32 | 63.9 |
| 4/17/2015 16:25:43 | 44.29 | 41.49 | 1,172 | 0.49 | 0.36 | 64.1 |
| 4/17/2015 16:25:44 | 44.62 | 41.82 | 1,172 | 0.49 | 0.36 | 64.1 |
| 4/17/2015 16:26:01 | 44.95 | 42.15 | 8 | 3.40 | 0.44 | 0.4 |
| 4/17/2015 16:26:03 | 45.28 | 42.48 | 194 | 3.07 | 0.43 | 10.6 |
| 4/17/2015 16:26:05 | 45.60 | 42.80 | 252 | 2.90 | 0.43 | 13.8 |
| 4/17/2015 16:26:06 | 45.93 | 43.13 | 301 | 2.71 | 0.42 | 16.5 |
| 4/17/2015 16:26:08 | 46.26 | 43.46 | 205 | 3.72 | 0.43 | 11.2 |
| 4/17/2015 16:26:10 | 46.59 | 43.79 | 198 | 3.49 | 0.44 | 10.8 |
| 4/17/2015 16:26:15 | 46.92 | 44.12 | 83 | 3.19 | 0.37 | 4.6 |
| 4/17/2015 16:26:18 | 47.24 | 44.44 | 131 | 3.25 | 0.45 | 7.2 |
| 4/17/2015 16:26:21 | 47.57 | 44.77 | 89 | 3.77 | 0.44 | 4.8 |
| 4/17/2015 16:26:26 | 47.90 | 45.10 | 90 | 3.94 | 0.47 | 4.9 |
| 4/17/2015 16:26:31 | 48.23 | 45.43 | 64 | 3.62 | 0.44 | 3.5 |
| 4/17/2015 16:26:35 | 48.56 | 45.76 | 87 | 4.03 | 0.48 | 4.7 |
| 4/17/2015 16:26:40 | 48.88 | 46.08 | 75 | 3.79 | 0.44 | 4.1 |
| 4/17/2015 16:26:44 | 49.21 | 46.41 | 76 | 3.71 | 0.43 | 4.1 |
| 4/17/2015 16:26:50 | 49.54 | 46.74 | 72 | 3.68 | 0.42 | 4.0 |
| 4/17/2015 16:26:55 | 49.87 | 47.07 | 67 | 3.92 | 0.46 | 3.6 |
| 4/17/2015 16:27:00 | 50.20 | 47.40 | 69 | 3.74 | 0.44 | 3.8 |
| 4/17/2015 16:27:05 | 50.53 | 47.73 | 72 | 3.98 | 0.47 | 4.0 |
| 4/17/2015 16:27:10 | 50.85 | 48.05 | 67 | 4.16 | 0.43 | 3.7 |
| 4/17/2015 16:27:17 | 51.16 | 48.36 | 49 | 3.38 | 0.19 | 2.7 |

## A1000 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 16:12:30

**End Date:**
4/17/2015 16:28:07

**Operator Note:**
'2.8 2.8 a Auto Complete'

**Northing:**
371,567.45

**Easting:**
259,065.27

**Tide (feet):**
2.80



## Hole: A1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 16:25:18 | 32.81 | 30.01 | 1,064 | 0.28 | 0.34 | 58.2 |
| 4/17/2015 16:25:18 | 33.14 | 30.34 | 1,058 | 0.29 | 0.34 | 57.9 |
| 4/17/2015 16:25:19 | 33.46 | 30.66 | 1,052 | 0.29 | 0.34 | 57.5 |
| 4/17/2015 16:25:19 | 33.79 | 30.99 | 1,052 | 0.29 | 0.34 | 57.5 |
| 4/17/2015 16:25:19 | 34.12 | 31.32 | 1,064 | 0.28 | 0.34 | 58.2 |
| 4/17/2015 16:25:20 | 34.45 | 31.65 | 1,056 | 0.28 | 0.34 | 57.7 |
| 4/17/2015 16:25:20 | 34.78 | 31.98 | 1,056 | 0.28 | 0.34 | 57.7 |
| 4/17/2015 16:25:20 | 35.11 | 32.31 | 1,047 | 0.28 | 0.34 | 57.3 |
| 4/17/2015 16:25:21 | 35.43 | 32.63 | 1,043 | 0.29 | 0.33 | 57.1 |
| 4/17/2015 16:25:21 | 35.76 | 32.96 | 1,043 | 0.29 | 0.33 | 57.1 |
| 4/17/2015 16:25:21 | 36.09 | 33.29 | 1,062 | 0.28 | 0.34 | 58.1 |
| 4/17/2015 16:25:22 | 36.42 | 33.62 | 1,047 | 0.28 | 0.34 | 57.2 |
| 4/17/2015 16:25:22 | 36.75 | 33.95 | 1,047 | 0.28 | 0.34 | 57.2 |
| 4/17/2015 16:25:23 | 37.07 | 34.27 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 16:25:23 | 37.40 | 34.60 | 1,047 | 0.28 | 0.33 | 57.2 |
| 4/17/2015 16:25:24 | 37.73 | 34.93 | 1,047 | 0.28 | 0.33 | 57.2 |
| 4/17/2015 16:25:24 | 38.06 | 35.26 | 1,053 | 0.28 | 0.34 | 57.6 |
| 4/17/2015 16:25:24 | 38.39 | 35.59 | 1,044 | 0.28 | 0.34 | 57.1 |
| 4/17/2015 16:25:25 | 38.71 | 35.91 | 1,044 | 0.28 | 0.34 | 57.1 |
| 4/17/2015 16:25:25 | 39.04 | 36.24 | 1,044 | 0.29 | 0.34 | 57.1 |
| 4/17/2015 16:25:25 | 39.37 | 36.57 | 1,040 | 0.28 | 0.34 | 56.9 |
| 4/17/2015 16:25:26 | 39.70 | 36.90 | 1,040 | 0.28 | 0.34 | 56.9 |
| 4/17/2015 16:25:26 | 40.03 | 37.23 | 1,058 | 0.29 | 0.34 | 57.9 |
| 4/17/2015 16:25:26 | 40.35 | 37.55 | 1,058 | 0.29 | 0.34 | 57.9 |
| 4/17/2015 16:25:26 | 40.68 | 37.88 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 16:25:27 | 41.01 | 38.21 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 16:25:27 | 41.34 | 38.54 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 16:25:27 | 41.67 | 38.87 | 1,047 | 0.26 | 0.36 | 57.2 |
| 4/17/2015 16:25:38 | 41.99 | 39.19 | 13 | 2.70 | 0.38 | 0.7 |
| 4/17/2015 16:25:39 | 42.32 | 39.52 | 137 | 3.31 | 0.40 | 7.5 |
| 4/17/2015 16:25:41 | 42.65 | 39.85 | 219 | 3.69 | 0.42 | 12.0 |
| 4/17/2015 16:25:45 | 42.98 | 40.18 | 108 | 3.50 | 0.41 | 5.9 |
| 4/17/2015 16:25:47 | 43.31 | 40.51 | 160 | 3.41 | 0.41 | 8.7 |
| 4/17/2015 16:25:49 | 43.64 | 40.84 | 165 | 3.35 | 0.41 | 9.0 |
| 4/17/2015 16:25:51 | 43.96 | 41.16 | 166 | 3.21 | 0.41 | 9.1 |
| 4/17/2015 16:25:55 | 44.29 | 41.49 | 124 | 3.52 | 0.42 | 6.8 |
| 4/17/2015 16:25:59 | 44.62 | 41.82 | 76 | 3.68 | 0.42 | 4.1 |
| 4/17/2015 16:26:09 | 44.95 | 42.15 | 31 | 3.20 | 0.42 | 1.7 |
| 4/17/2015 16:26:14 | 45.28 | 42.48 | 61 | 3.40 | 0.41 | 3.3 |
| 4/17/2015 16:26:17 | 45.60 | 42.80 | 123 | 3.43 | 0.41 | 6.7 |
| 4/17/2015 16:26:19 | 45.93 | 43.13 | 148 | 3.10 | 0.41 | 8.1 |
| 4/17/2015 16:26:23 | 46.26 | 43.46 | 95 | 3.12 | 0.41 | 5.2 |
| 4/17/2015 16:26:27 | 46.59 | 43.79 | 93 | 2.84 | 0.40 | 5.1 |
| 4/17/2015 16:26:30 | 46.92 | 44.12 | 107 | 3.29 | 0.41 | 5.8 |
| 4/17/2015 16:26:33 | 47.24 | 44.44 | 132 | 3.41 | 0.42 | 7.2 |
| 4/17/2015 16:26:36 | 47.57 | 44.77 | 128 | 3.20 | 0.40 | 7.0 |
| 4/17/2015 16:26:39 | 47.90 | 45.10 | 115 | 3.24 | 0.41 | 6.3 |
| 4/17/2015 16:26:41 | 48.23 | 45.43 | 115 | 3.37 | 0.42 | 6.3 |
| 4/17/2015 16:26:43 | 48.56 | 45.76 | 155 | 2.94 | 0.40 | 8.5 |
| 4/17/2015 16:26:47 | 48.88 | 46.08 | 115 | 2.99 | 0.41 | 6.3 |
| 4/17/2015 16:26:51 | 49.21 | 46.41 | 95 | 3.01 | 0.41 | 5.2 |
| 4/17/2015 16:26:54 | 49.54 | 46.74 | 96 | 2.93 | 0.41 | 5.2 |
| 4/17/2015 16:26:59 | 49.87 | 47.07 | 89 | 2.87 | 0.41 | 4.8 |
| 4/17/2015 16:27:03 | 50.20 | 47.40 | 90 | 2.82 | 0.41 | 4.9 |
| 4/17/2015 16:27:06 | 50.53 | 47.73 | 84 | 2.67 | 0.41 | 4.6 |
| 4/17/2015 16:27:11 | 50.85 | 48.05 | 87 | 2.66 | 0.41 | 4.7 |
| 4/17/2015 16:27:15 | 51.18 | 48.38 | 88 | 2.75 | 0.41 | 4.8 |
| 4/17/2015 16:27:19 | 51.51 | 48.71 | 81 | 2.90 | 0.41 | 4.4 |
| 4/17/2015 16:27:24 | 51.84 | 49.04 | 80 | 2.95 | 0.41 | 4.4 |
| 4/17/2015 16:27:29 | 52.17 | 49.37 | 65 | 2.76 | 0.41 | 3.6 |
| 4/17/2015 16:27:34 | 52.49 | 49.69 | 75 | 2.83 | 0.42 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 16:27:37 | 52.82 | 50.02 | 91 | 3.05 | 0.41 | 5.0 |
| 4/17/2015 | 16:27:41 | 53.15 | 50.35 | 112 | 3.24 | 0.41 | 6.1 |
| 4/17/2015 | 16:27:44 | 53.48 | 50.68 | 110 | 3.01 | 0.41 | 6.0 |
| 4/17/2015 | 16:27:47 | 53.81 | 51.01 | 116 | 2.85 | 0.41 | 6.3 |
| 4/17/2015 | 16:27:51 | 54.13 | 51.33 | 108 | 2.82 | 0.42 | 5.9 |
| 4/17/2015 | 16:27:54 | 54.46 | 51.66 | 110 | 2.93 | 0.42 | 6.0 |
| 4/17/2015 | 16:27:57 | 54.79 | 51.99 | 98 | 2.95 | 0.41 | 5.4 |
| 4/17/2015 | 16:28:00 | 55.12 | 52.32 | 139 | 3.33 | 0.40 | 7.6 |
| 4/17/2015 | 16:28:03 | 55.45 | 52.65 | 144 | 3.04 | 0.41 | 7.9 |
| 4/17/2015 | 16:28:07 | 55.77 | 52.97 | 81 | 2.91 | 0.42 | 4.4 |
| 4/17/2015 | 16:28:13 | 56.10 | 53.30 | 70 | 2.88 | 0.41 | 3.8 |
| 4/17/2015 | 16:28:17 | 56.43 | 53.63 | 93 | 2.88 | 0.42 | 5.1 |
| 4/17/2015 | 16:28:21 | 56.76 | 53.96 | 75 | 2.74 | 0.41 | 4.1 |
| 4/17/2015 | 16:28:26 | 57.09 | 54.29 | 83 | 2.86 | 0.42 | 4.6 |
| 4/17/2015 | 16:28:30 | 57.41 | 54.61 | 75 | 2.86 | 0.41 | 4.1 |
| 4/17/2015 | 16:28:35 | 57.74 | 54.94 | 71 | 3.08 | 0.42 | 3.9 |
| 4/17/2015 | 16:28:37 | 57.84 | 55.04 | 50 | 2.97 | 0.42 | 2.7 |

## A1001 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 16:10:30

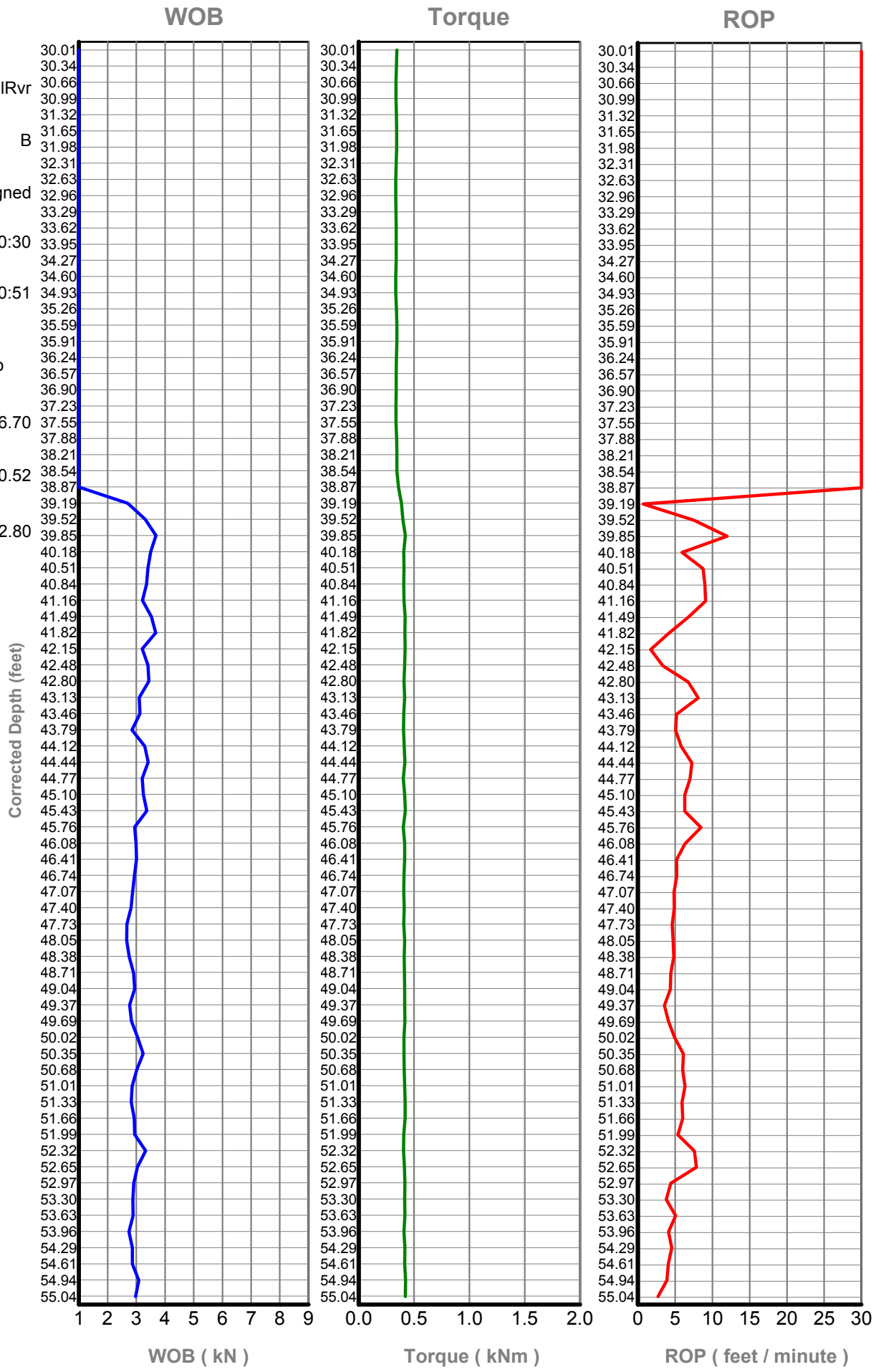
**End Date:**
4/17/2015 16:30:51

**Operator Note:**
'2.8 2.8 b wait on accurate tide reading No

**Northing:**
371,566.70

**Easting:**
259,140.52

**Tide (feet):**
2.80



## Hole: A1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 16:25:23 | 32.81 | 30.01 | 603 | 2.14 | 0.25 | 33.0 |
| 4/17/2015 16:25:24 | 33.14 | 30.34 | 603 | 2.14 | 0.24 | 33.0 |
| 4/17/2015 16:25:24 | 33.46 | 30.66 | 612 | 2.14 | 0.24 | 33.5 |
| 4/17/2015 16:25:25 | 33.79 | 30.99 | 617 | 2.14 | 0.24 | 33.7 |
| 4/17/2015 16:25:25 | 34.12 | 31.32 | 614 | 2.14 | 0.24 | 33.6 |
| 4/17/2015 16:25:26 | 34.45 | 31.65 | 608 | 2.14 | 0.25 | 33.3 |
| 4/17/2015 16:25:26 | 34.78 | 31.98 | 608 | 2.14 | 0.24 | 33.3 |
| 4/17/2015 16:25:27 | 35.11 | 32.31 | 607 | 2.14 | 0.25 | 33.2 |
| 4/17/2015 16:25:27 | 35.43 | 32.63 | 607 | 2.14 | 0.25 | 33.2 |
| 4/17/2015 16:25:28 | 35.76 | 32.96 | 596 | 2.14 | 0.24 | 32.6 |
| 4/17/2015 16:25:29 | 36.09 | 33.29 | 616 | 2.14 | 0.25 | 33.7 |
| 4/17/2015 16:25:29 | 36.42 | 33.62 | 606 | 2.14 | 0.24 | 33.2 |
| 4/17/2015 16:25:30 | 36.75 | 33.95 | 606 | 2.14 | 0.24 | 33.2 |
| 4/17/2015 16:25:30 | 37.07 | 34.27 | 612 | 2.14 | 0.24 | 33.5 |
| 4/17/2015 16:25:31 | 37.40 | 34.60 | 600 | 2.14 | 0.25 | 32.8 |
| 4/17/2015 16:25:31 | 37.73 | 34.93 | 604 | 2.13 | 0.25 | 33.0 |
| 4/17/2015 16:25:32 | 38.06 | 35.26 | 604 | 2.12 | 0.24 | 33.0 |
| 4/17/2015 16:25:33 | 38.39 | 35.59 | 619 | 2.14 | 0.25 | 33.8 |
| 4/17/2015 16:25:34 | 38.71 | 35.91 | 602 | 2.13 | 0.25 | 32.9 |
| 4/17/2015 16:25:34 | 39.04 | 36.24 | 602 | 2.14 | 0.24 | 32.9 |
| 4/17/2015 16:25:35 | 39.37 | 36.57 | 604 | 2.14 | 0.25 | 33.0 |
| 4/17/2015 16:25:35 | 39.70 | 36.90 | 604 | 2.13 | 0.24 | 33.0 |
| 4/17/2015 16:25:36 | 40.03 | 37.23 | 613 | 2.14 | 0.25 | 33.5 |
| 4/17/2015 16:25:36 | 40.35 | 37.55 | 613 | 2.13 | 0.25 | 33.5 |
| 4/17/2015 16:25:37 | 40.68 | 37.88 | 586 | 2.29 | 0.25 | 32.1 |
| 4/17/2015 16:25:54 | 41.01 | 38.21 | 64 | 2.21 | 1.21 | 3.5 |
| 4/17/2015 16:25:55 | 41.34 | 38.54 | 147 | 2.22 | 1.41 | 8.1 |
| 4/17/2015 16:25:56 | 41.67 | 38.87 | 203 | 2.22 | 1.01 | 11.1 |
| 4/17/2015 16:25:57 | 41.99 | 39.19 | 345 | 2.25 | 1.09 | 18.8 |
| 4/17/2015 16:25:57 | 42.32 | 39.52 | 380 | 2.21 | 1.04 | 20.8 |
| 4/17/2015 16:26:20 | 42.65 | 39.85 | 0 | 2.15 | 0.83 | 0.0 |
| 4/17/2015 16:26:21 | 42.98 | 40.18 | 156 | 2.22 | 1.02 | 8.5 |
| 4/17/2015 16:26:22 | 43.31 | 40.51 | 223 | 2.21 | 1.00 | 12.2 |
| 4/17/2015 16:26:23 | 43.64 | 40.84 | 349 | 2.23 | 1.06 | 19.1 |
| 4/17/2015 16:26:26 | 43.96 | 41.16 | 217 | 2.27 | 1.08 | 11.9 |
| 4/17/2015 16:26:28 | 44.29 | 41.49 | 194 | 2.24 | 1.16 | 10.6 |
| 4/17/2015 16:26:29 | 44.62 | 41.82 | 231 | 2.23 | 1.15 | 12.6 |
| 4/17/2015 16:26:30 | 44.95 | 42.15 | 250 | 2.25 | 1.13 | 13.7 |
| 4/17/2015 16:26:33 | 45.28 | 42.48 | 159 | 2.28 | 1.12 | 8.7 |
| 4/17/2015 16:26:37 | 45.60 | 42.80 | 95 | 2.28 | 1.17 | 5.2 |
| 4/17/2015 16:26:40 | 45.93 | 43.13 | 84 | 2.25 | 1.14 | 4.6 |
| 4/17/2015 16:26:42 | 46.26 | 43.46 | 161 | 2.31 | 1.19 | 8.8 |
| 4/17/2015 16:26:45 | 46.59 | 43.79 | 154 | 2.32 | 1.21 | 8.4 |
| 4/17/2015 16:26:48 | 46.92 | 44.12 | 139 | 2.33 | 1.22 | 7.6 |
| 4/17/2015 16:26:52 | 47.24 | 44.44 | 81 | 2.34 | 1.21 | 4.4 |
| 4/17/2015 16:26:56 | 47.57 | 44.77 | 80 | 2.33 | 1.19 | 4.4 |
| 4/17/2015 16:27:01 | 47.90 | 45.10 | 72 | 2.34 | 1.18 | 4.0 |
| 4/17/2015 16:27:07 | 48.23 | 45.43 | 61 | 2.37 | 1.21 | 3.3 |
| 4/17/2015 16:27:12 | 48.56 | 45.76 | 62 | 2.33 | 1.20 | 3.4 |
| 4/17/2015 16:27:18 | 48.88 | 46.08 | 66 | 2.35 | 1.24 | 3.6 |
| 4/17/2015 16:27:22 | 49.21 | 46.41 | 95 | 2.33 | 1.24 | 5.2 |
| 4/17/2015 16:27:25 | 49.48 | 46.68 | 93 | 2.32 | 1.21 | 5.1 |

## A1002 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/17/2015 16:12:33

**End Date:**
4/17/2015 16:32:15

**Operator Note:**
'2.8 2,8 c Auto Complete'

**Northing:**
371,565.95

**Easting:**
259,215.27

**Tide (feet):**
2.80



## Hole: A1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:37:54 | 33.46 | 30.06 | 1,043 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:37:55 | 33.79 | 30.39 | 1,043 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:37:55 | 34.12 | 30.72 | 1,059 | 0.43 | 0.31 | 57.9 |
| 4/17/2015 15:37:55 | 34.45 | 31.05 | 1,052 | 0.43 | 0.31 | 57.5 |
| 4/17/2015 15:37:56 | 34.78 | 31.38 | 1,052 | 0.43 | 0.31 | 57.5 |
| 4/17/2015 15:37:56 | 35.11 | 31.71 | 1,049 | 0.43 | 0.32 | 57.4 |
| 4/17/2015 15:37:56 | 35.43 | 32.03 | 1,049 | 0.43 | 0.32 | 57.4 |
| 4/17/2015 15:37:56 | 35.76 | 32.36 | 1,052 | 0.43 | 0.31 | 57.5 |
| 4/17/2015 15:37:57 | 36.09 | 32.69 | 1,055 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:37:57 | 36.42 | 33.02 | 1,055 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:37:57 | 36.75 | 33.35 | 1,046 | 0.43 | 0.31 | 57.2 |
| 4/17/2015 15:37:58 | 37.07 | 33.67 | 1,049 | 0.43 | 0.31 | 57.4 |
| 4/17/2015 15:37:59 | 37.40 | 34.00 | 1,049 | 0.43 | 0.31 | 57.4 |
| 4/17/2015 15:37:58 | 37.73 | 34.33 | 1,032 | 0.43 | 0.31 | 56.4 |
| 4/17/2015 15:37:59 | 38.06 | 34.66 | 1,041 | 0.43 | 0.31 | 56.9 |
| 4/17/2015 15:37:59 | 38.39 | 34.99 | 1,041 | 0.43 | 0.31 | 56.9 |
| 4/17/2015 15:37:59 | 38.71 | 35.31 | 1,045 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:00 | 39.04 | 35.64 | 1,053 | 0.43 | 0.32 | 57.6 |
| 4/17/2015 15:38:01 | 39.37 | 35.97 | 1,053 | 0.43 | 0.32 | 57.6 |
| 4/17/2015 15:38:01 | 39.70 | 36.30 | 1,050 | 0.43 | 0.31 | 57.4 |
| 4/17/2015 15:38:01 | 40.03 | 36.63 | 1,068 | 0.43 | 0.32 | 58.4 |
| 4/17/2015 15:38:02 | 40.35 | 36.95 | 1,068 | 0.43 | 0.32 | 58.4 |
| 4/17/2015 15:38:02 | 40.68 | 37.28 | 1,062 | 0.43 | 0.31 | 58.1 |
| 4/17/2015 15:38:02 | 41.01 | 37.61 | 1,055 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:38:03 | 41.34 | 37.94 | 1,055 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:38:03 | 41.67 | 38.27 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:03 | 41.99 | 38.59 | 1,049 | 0.43 | 0.31 | 57.4 |
| 4/17/2015 15:38:04 | 42.32 | 38.92 | 1,049 | 0.43 | 0.31 | 57.4 |
| 4/17/2015 15:38:04 | 42.65 | 39.25 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:04 | 42.98 | 39.58 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:05 | 43.31 | 39.91 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:05 | 43.64 | 40.24 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:05 | 43.96 | 40.56 | 1,056 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:38:06 | 44.29 | 40.89 | 1,056 | 0.43 | 0.31 | 57.7 |
| 4/17/2015 15:38:06 | 44.62 | 41.22 | 1,044 | 0.60 | 0.31 | 57.1 |
| 4/17/2015 15:38:06 | 44.95 | 41.55 | 1,044 | 0.60 | 0.31 | 57.1 |
| 4/17/2015 15:38:06 | 45.28 | 41.88 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:07 | 45.60 | 42.20 | 1,037 | 0.43 | 0.31 | 56.7 |
| 4/17/2015 15:38:07 | 45.93 | 42.53 | 1,037 | 0.43 | 0.31 | 56.7 |
| 4/17/2015 15:38:07 | 46.26 | 42.86 | 1,044 | 0.43 | 0.31 | 57.1 |
| 4/17/2015 15:38:08 | 46.59 | 43.19 | 1,041 | 0.43 | 0.32 | 56.9 |
| 4/17/2015 15:38:08 | 46.92 | 43.52 | 1,041 | 0.43 | 0.32 | 56.9 |
| 4/17/2015 15:38:08 | 47.24 | 43.84 | 1,038 | 0.43 | 0.31 | 56.8 |
| 4/17/2015 15:38:09 | 47.57 | 44.17 | 1,035 | 0.43 | 0.33 | 56.6 |
| 4/17/2015 15:38:09 | 47.90 | 44.50 | 1,035 | 0.43 | 0.33 | 56.6 |
| 4/17/2015 15:38:09 | 48.23 | 44.83 | 1,041 | 0.43 | 0.32 | 56.9 |
| 4/17/2015 15:38:29 | 48.56 | 45.16 | 0 | 2.46 | 0.42 | 0.0 |
| 4/17/2015 15:38:30 | 48.88 | 45.48 | 113 | 4.91 | 0.48 | 6.2 |
| 4/17/2015 15:38:34 | 49.21 | 45.81 | 122 | 3.89 | 0.47 | 6.7 |
| 4/17/2015 15:38:36 | 49.54 | 46.14 | 141 | 3.86 | 0.46 | 7.7 |
| 4/17/2015 15:38:42 | 49.87 | 46.47 | 60 | 3.93 | 0.47 | 3.3 |
| 4/17/2015 15:38:47 | 50.20 | 46.80 | 78 | 4.02 | 0.47 | 4.3 |
| 4/17/2015 15:38:53 | 50.53 | 47.13 | 59 | 3.94 | 0.46 | 3.2 |
| 4/17/2015 15:38:59 | 50.85 | 47.45 | 51 | 4.11 | 0.46 | 2.8 |
| 4/17/2015 15:39:05 | 51.18 | 47.78 | 63 | 3.38 | 0.41 | 3.5 |
| 4/17/2015 15:39:09 | 51.51 | 48.11 | 106 | 3.92 | 0.42 | 5.8 |
| 4/17/2015 15:39:12 | 51.84 | 48.44 | 109 | 3.99 | 0.40 | 6.0 |
| 4/17/2015 15:39:16 | 52.17 | 48.77 | 98 | 4.23 | 0.42 | 5.4 |
| 4/17/2015 15:39:19 | 52.49 | 49.09 | 97 | 3.98 | 0.43 | 5.3 |
| 4/17/2015 15:39:24 | 52.82 | 49.42 | 80 | 3.90 | 0.39 | 4.4 |
| 4/17/2015 15:39:29 | 53.15 | 49.75 | 69 | 3.73 | 0.44 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 15:39:35 | 53.48 | 50.08 | 61 | 3.88 | 0.40 | 3.3 |
| 4/17/2015 | 15:39:42 | 53.81 | 50.41 | 49 | 3.63 | 0.43 | 2.7 |
| 4/17/2015 | 15:39:49 | 54.09 | 50.69 | 48 | 4.38 | 0.20 | 2.6 |

## A1003 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 15:36:15

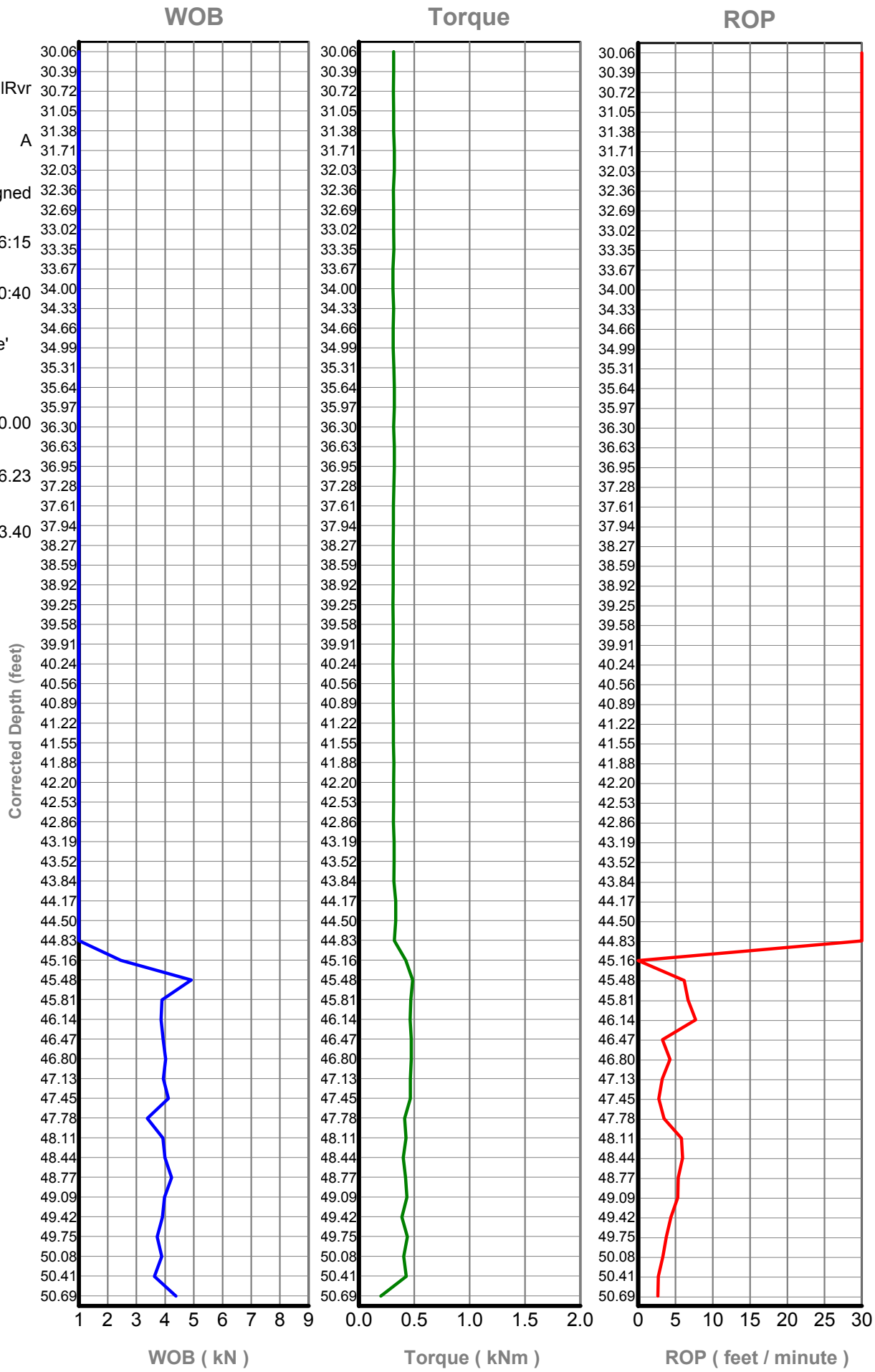
**End Date:**
4/17/2015 15:40:40

**Operator Note:**
'3.4 3.6 a Auto Complete'

**Northing:**
371,560.00

**Easting:**
259,286.23

**Tide (feet):**
3.40



## Hole: A1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:36:24 | 33.46 | 30.06 | 1,048 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:25 | 33.79 | 30.39 | 1,048 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:25 | 34.12 | 30.72 | 1,048 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:25 | 34.45 | 31.05 | 1,047 | 0.10 | 0.34 | 57.2 |
| 4/17/2015 15:36:26 | 34.78 | 31.38 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 15:36:26 | 35.11 | 31.71 | 1,047 | 0.29 | 0.34 | 57.2 |
| 4/17/2015 15:36:26 | 35.43 | 32.03 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:27 | 35.76 | 32.36 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:27 | 36.09 | 32.69 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:27 | 36.42 | 33.02 | 1,034 | 0.29 | 0.34 | 56.5 |
| 4/17/2015 15:36:28 | 36.75 | 33.35 | 1,043 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:28 | 37.07 | 33.67 | 1,043 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:28 | 37.40 | 34.00 | 1,043 | 0.30 | 0.34 | 57.0 |
| 4/17/2015 15:36:29 | 37.73 | 34.33 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:29 | 38.06 | 34.66 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:29 | 38.39 | 34.99 | 1,031 | 0.29 | 0.34 | 56.4 |
| 4/17/2015 15:36:30 | 38.71 | 35.31 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/17/2015 15:36:30 | 39.04 | 35.64 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/17/2015 15:36:30 | 39.37 | 35.97 | 1,027 | 0.29 | 0.34 | 56.1 |
| 4/17/2015 15:36:31 | 39.70 | 36.30 | 1,026 | 0.29 | 0.34 | 56.1 |
| 4/17/2015 15:36:31 | 40.03 | 36.63 | 1,026 | 0.29 | 0.34 | 56.1 |
| 4/17/2015 15:36:31 | 40.35 | 36.95 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:32 | 40.68 | 37.28 | 1,053 | 0.29 | 0.34 | 57.6 |
| 4/17/2015 15:36:32 | 41.01 | 37.61 | 1,053 | 0.29 | 0.34 | 57.6 |
| 4/17/2015 15:36:32 | 41.34 | 37.94 | 1,038 | 0.29 | 0.34 | 56.7 |
| 4/17/2015 15:36:33 | 41.67 | 38.27 | 1,038 | 0.29 | 0.34 | 56.7 |
| 4/17/2015 15:36:33 | 41.99 | 38.59 | 1,041 | 0.29 | 0.34 | 56.9 |
| 4/17/2015 15:36:33 | 42.32 | 38.92 | 1,047 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:34 | 42.65 | 39.25 | 1,047 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:34 | 42.98 | 39.58 | 1,038 | 0.29 | 0.34 | 56.8 |
| 4/17/2015 15:36:35 | 43.31 | 39.91 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/17/2015 15:36:35 | 43.64 | 40.24 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/17/2015 15:36:35 | 43.96 | 40.56 | 1,031 | 0.29 | 0.33 | 56.4 |
| 4/17/2015 15:36:36 | 44.29 | 40.89 | 1,044 | 0.29 | 0.34 | 57.1 |
| 4/17/2015 15:36:36 | 44.62 | 41.22 | 1,044 | 0.29 | 0.34 | 57.1 |
| 4/17/2015 15:36:36 | 44.95 | 41.55 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:37 | 45.28 | 41.88 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:37 | 45.60 | 42.20 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:37 | 45.93 | 42.53 | 1,047 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:37 | 46.26 | 42.86 | 1,047 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:38 | 46.59 | 43.19 | 1,047 | 0.29 | 0.34 | 57.3 |
| 4/17/2015 15:36:38 | 46.92 | 43.52 | 1,055 | 0.29 | 0.34 | 57.7 |
| 4/17/2015 15:36:39 | 47.24 | 43.84 | 1,033 | 0.29 | 0.34 | 56.5 |
| 4/17/2015 15:36:39 | 47.57 | 44.17 | 1,033 | 0.29 | 0.34 | 56.5 |
| 4/17/2015 15:36:39 | 47.90 | 44.50 | 1,039 | 0.29 | 0.34 | 56.8 |
| 4/17/2015 15:36:40 | 48.23 | 44.83 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:40 | 48.56 | 45.16 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/17/2015 15:36:50 | 48.88 | 45.48 | 43 | 3.08 | 0.40 | 2.3 |
| 4/17/2015 15:36:58 | 49.21 | 45.81 | 61 | 3.31 | 0.41 | 3.3 |
| 4/17/2015 15:37:16 | 49.54 | 46.14 | 60 | 3.39 | 0.42 | 3.3 |
| 4/17/2015 15:37:22 | 49.87 | 46.47 | 64 | 3.14 | 0.42 | 3.5 |
| 4/17/2015 15:37:29 | 50.20 | 46.80 | 58 | 3.73 | 0.42 | 3.2 |
| 4/17/2015 15:37:35 | 50.53 | 47.13 | 58 | 3.27 | 0.41 | 3.2 |
| 4/17/2015 15:37:36 | 50.60 | 47.20 | 61 | 3.15 | 0.42 | 3.3 |

## A1004 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 15:34:24

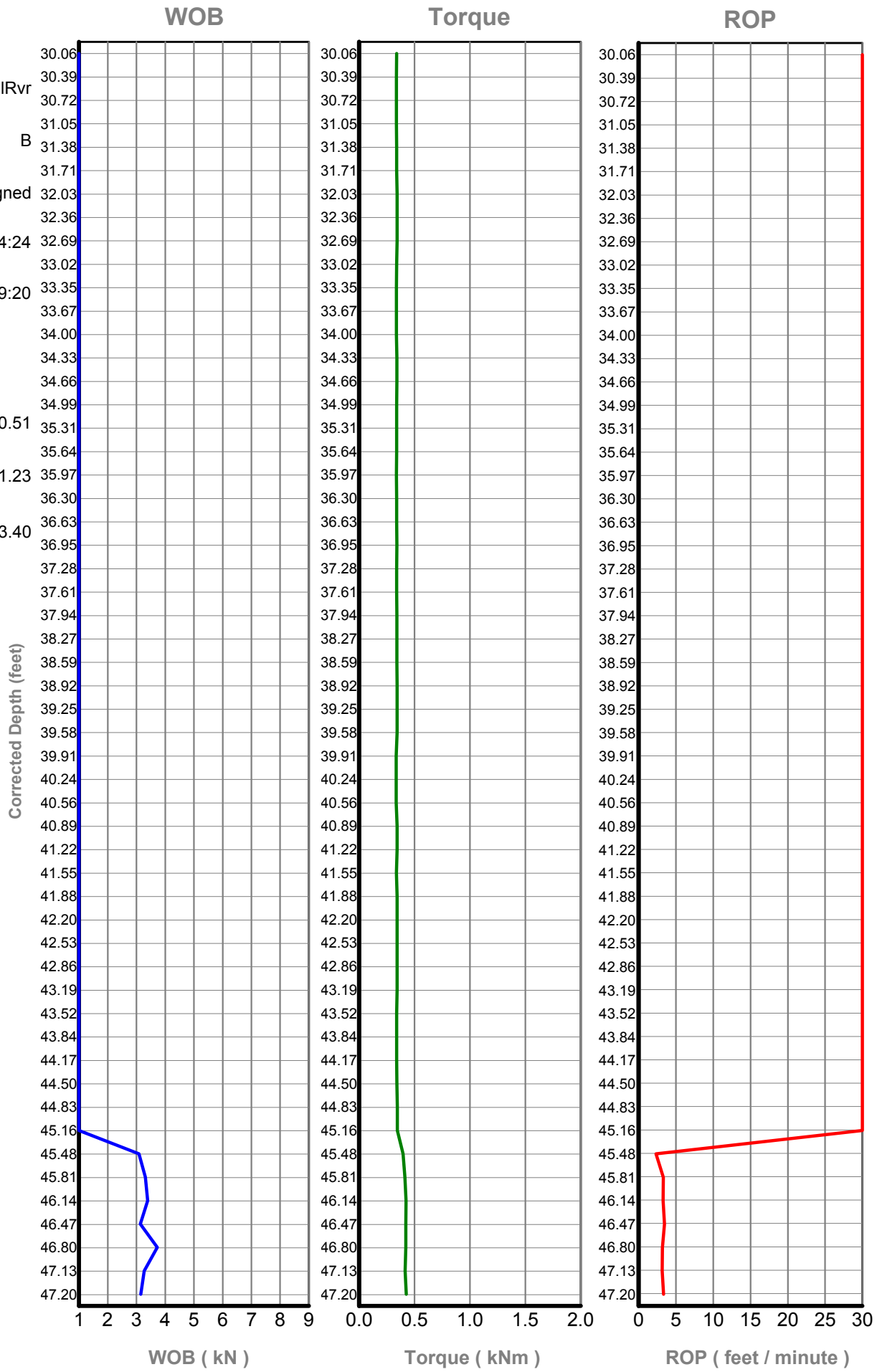
**End Date:**
4/17/2015 15:39:20

**Operator Note:**
'3.4 3.6 b Hit rock @49"

**Northing:**
371,560.51

**Easting:**
259,361.23

**Tide (feet):**
3.40



## Hole: A1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:37:49 | 33.46 | 30.06 | 659 | 2.14 | 0.25 | 36.0 |
| 4/17/2015 15:37:49 | 33.79 | 30.39 | 649 | 2.12 | 0.25 | 35.5 |
| 4/17/2015 15:37:50 | 34.12 | 30.72 | 660 | 2.14 | 0.25 | 36.1 |
| 4/17/2015 15:37:50 | 34.45 | 31.05 | 656 | 2.19 | 0.25 | 35.9 |
| 4/17/2015 15:37:51 | 34.78 | 31.38 | 645 | 2.12 | 0.26 | 35.3 |
| 4/17/2015 15:37:51 | 35.11 | 31.71 | 645 | 2.14 | 0.25 | 35.3 |
| 4/17/2015 15:37:52 | 35.43 | 32.03 | 652 | 2.14 | 0.25 | 35.6 |
| 4/17/2015 15:37:52 | 35.76 | 32.36 | 659 | 2.13 | 0.25 | 36.0 |
| 4/17/2015 15:37:53 | 36.09 | 32.69 | 649 | 2.14 | 0.23 | 35.5 |
| 4/17/2015 15:37:54 | 36.42 | 33.02 | 663 | 2.13 | 0.25 | 36.3 |
| 4/17/2015 15:37:54 | 36.75 | 33.35 | 654 | 2.13 | 0.25 | 35.7 |
| 4/17/2015 15:37:55 | 37.07 | 33.67 | 654 | 2.14 | 0.25 | 35.7 |
| 4/17/2015 15:37:55 | 37.40 | 34.00 | 650 | 2.13 | 0.25 | 35.5 |
| 4/17/2015 15:37:56 | 37.73 | 34.33 | 660 | 2.14 | 0.25 | 36.1 |
| 4/17/2015 15:37:56 | 38.06 | 34.66 | 656 | 2.14 | 0.25 | 35.9 |
| 4/17/2015 15:37:57 | 38.39 | 34.99 | 660 | 2.13 | 0.25 | 36.1 |
| 4/17/2015 15:37:57 | 38.71 | 35.31 | 656 | 2.13 | 0.25 | 35.9 |
| 4/17/2015 15:37:58 | 39.04 | 35.64 | 659 | 2.13 | 0.25 | 36.0 |
| 4/17/2015 15:37:59 | 39.37 | 35.97 | 656 | 2.14 | 0.25 | 35.9 |
| 4/17/2015 15:37:59 | 39.70 | 36.30 | 653 | 2.14 | 0.25 | 35.7 |
| 4/17/2015 15:38:00 | 40.03 | 36.63 | 652 | 2.14 | 0.25 | 35.7 |
| 4/17/2015 15:38:00 | 40.35 | 36.95 | 656 | 2.12 | 0.25 | 35.9 |
| 4/17/2015 15:38:01 | 40.68 | 37.28 | 653 | 2.14 | 0.19 | 35.7 |
| 4/17/2015 15:38:01 | 41.01 | 37.61 | 656 | 2.12 | 0.25 | 35.9 |
| 4/17/2015 15:38:02 | 41.34 | 37.94 | 656 | 2.14 | 0.25 | 35.9 |
| 4/17/2015 15:38:02 | 41.67 | 38.27 | 656 | 2.13 | 0.25 | 35.9 |
| 4/17/2015 15:38:03 | 41.99 | 38.59 | 656 | 2.14 | 0.25 | 35.9 |
| 4/17/2015 15:38:03 | 42.32 | 38.92 | 656 | 2.14 | 0.25 | 35.9 |
| 4/17/2015 15:38:04 | 42.65 | 39.25 | 649 | 2.10 | 0.25 | 35.5 |
| 4/17/2015 15:38:05 | 42.98 | 39.58 | 651 | 2.14 | 0.25 | 35.6 |
| 4/17/2015 15:38:05 | 43.31 | 39.91 | 651 | 2.13 | 0.25 | 35.6 |
| 4/17/2015 15:38:06 | 43.64 | 40.24 | 651 | 2.13 | 0.25 | 35.6 |
| 4/17/2015 15:38:06 | 43.96 | 40.56 | 653 | 2.14 | 0.25 | 35.7 |
| 4/17/2015 15:38:07 | 44.29 | 40.89 | 650 | 2.13 | 0.25 | 35.6 |
| 4/17/2015 15:38:07 | 44.62 | 41.22 | 650 | 2.13 | 0.25 | 35.6 |
| 4/17/2015 15:38:08 | 44.95 | 41.55 | 646 | 2.14 | 0.25 | 35.3 |
| 4/17/2015 15:38:08 | 45.28 | 41.88 | 653 | 2.14 | 0.25 | 35.7 |
| 4/17/2015 15:38:09 | 45.60 | 42.20 | 648 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 15:38:10 | 45.93 | 42.53 | 648 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 15:38:10 | 46.26 | 42.86 | 651 | 2.14 | 0.25 | 35.6 |
| 4/17/2015 15:38:11 | 46.59 | 43.19 | 653 | 2.13 | 0.25 | 35.7 |
| 4/17/2015 15:38:11 | 46.92 | 43.52 | 647 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 15:38:12 | 47.24 | 43.84 | 650 | 2.13 | 0.25 | 35.6 |
| 4/17/2015 15:38:12 | 47.57 | 44.17 | 646 | 2.14 | 0.25 | 35.3 |
| 4/17/2015 15:38:13 | 47.90 | 44.50 | 653 | 2.13 | 0.25 | 35.7 |
| 4/17/2015 15:38:13 | 48.23 | 44.83 | 648 | 2.14 | 0.25 | 35.4 |
| 4/17/2015 15:38:14 | 48.56 | 45.16 | 647 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 15:38:14 | 48.88 | 45.48 | 648 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 15:38:38 | 49.21 | 45.81 | 0 | 2.19 | 0.97 | 0.0 |
| 4/17/2015 15:38:40 | 49.54 | 46.14 | 164 | 2.27 | 1.13 | 9.0 |
| 4/17/2015 15:38:43 | 49.87 | 46.47 | 98 | 2.29 | 1.22 | 5.4 |
| 4/17/2015 15:38:46 | 50.20 | 46.80 | 102 | 2.25 | 1.08 | 5.6 |
| 4/17/2015 15:38:48 | 50.53 | 47.13 | 182 | 2.30 | 1.07 | 10.0 |
| 4/17/2015 15:38:49 | 50.85 | 47.45 | 243 | 2.28 | 0.95 | 13.3 |
| 4/17/2015 15:38:51 | 51.18 | 47.78 | 266 | 2.30 | 0.98 | 14.5 |
| 4/17/2015 15:38:52 | 51.51 | 48.11 | 260 | 2.29 | 1.01 | 14.2 |
| 4/17/2015 15:38:54 | 51.84 | 48.44 | 243 | 2.30 | 1.02 | 13.3 |
| 4/17/2015 15:38:55 | 52.17 | 48.77 | 246 | 2.31 | 1.03 | 13.5 |
| 4/17/2015 15:38:57 | 52.49 | 49.09 | 193 | 2.33 | 1.17 | 10.6 |
| 4/17/2015 15:39:00 | 52.82 | 49.42 | 133 | 2.33 | 1.21 | 7.3 |
| 4/17/2015 15:39:03 | 53.15 | 49.75 | 144 | 2.34 | 1.19 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 15:39:07 | 53.48 | 50.08 | 81 | 2.36 | 1.29 | 4.4 |
| 4/17/2015 | 15:39:13 | 53.81 | 50.41 | 57 | 2.36 | 1.18 | 3.1 |
| 4/17/2015 | 15:39:22 | 54.13 | 50.73 | 34 | 2.36 | 1.15 | 1.9 |
| 4/17/2015 | 15:39:37 | 54.46 | 51.06 | 23 | 2.36 | 1.24 | 1.3 |
| 4/17/2015 | 15:39:51 | 54.79 | 51.39 | 24 | 2.34 | 1.06 | 1.3 |
| 4/17/2015 | 15:39:55 | 54.90 | 51.50 | 30 | 2.33 | 1.19 | 1.6 |

## A1005 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 15:36:07

**End Date:**
4/17/2015 15:40:54

**Operator Note:**
'3.4 3.6 x Auto Complete'

**Northing:**
371,561.02

**Easting:**
259,436.23

**Tide (feet):**
3.40



## Hole: A1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:54:48 | 33.46 | 30.26 | 1,078 | 0.41 | 0.26 | 59.0 |
| 4/17/2015 15:54:48 | 33.79 | 30.59 | 1,084 | 0.43 | 0.31 | 59.3 |
| 4/17/2015 15:54:49 | 34.12 | 30.92 | 1,078 | 0.43 | 0.25 | 59.0 |
| 4/17/2015 15:54:49 | 34.45 | 31.25 | 1,078 | 0.43 | 0.25 | 59.0 |
| 4/17/2015 15:54:49 | 34.78 | 31.58 | 1,090 | 0.43 | 0.26 | 59.6 |
| 4/17/2015 15:54:50 | 35.11 | 31.91 | 1,090 | 0.43 | 0.33 | 59.6 |
| 4/17/2015 15:54:51 | 35.43 | 32.23 | 1,090 | 0.43 | 0.33 | 59.6 |
| 4/17/2015 15:54:51 | 35.76 | 32.56 | 1,093 | 0.43 | 0.29 | 59.8 |
| 4/17/2015 15:54:51 | 36.09 | 32.89 | 1,093 | 0.43 | 0.29 | 59.8 |
| 4/17/2015 15:54:51 | 36.42 | 33.22 | 1,093 | 0.45 | 0.36 | 59.8 |
| 4/17/2015 15:54:52 | 36.75 | 33.55 | 1,101 | 0.43 | 0.40 | 60.2 |
| 4/17/2015 15:54:52 | 37.07 | 33.87 | 1,101 | 0.43 | 0.40 | 60.2 |
| 4/17/2015 15:54:52 | 37.40 | 34.20 | 1,096 | 0.43 | 0.27 | 59.9 |
| 4/17/2015 15:54:53 | 37.73 | 34.53 | 1,104 | 0.43 | 0.34 | 60.4 |
| 4/17/2015 15:54:53 | 38.06 | 34.86 | 1,104 | 0.43 | 0.34 | 60.4 |
| 4/17/2015 15:54:53 | 38.39 | 35.19 | 1,094 | 0.43 | 0.25 | 59.8 |
| 4/17/2015 15:54:54 | 38.71 | 35.51 | 1,094 | 0.43 | 0.25 | 59.8 |
| 4/17/2015 15:54:54 | 39.04 | 35.84 | 1,117 | 0.43 | 0.30 | 61.1 |
| 4/17/2015 15:54:54 | 39.37 | 36.17 | 1,120 | 0.44 | 0.36 | 61.2 |
| 4/17/2015 15:54:55 | 39.70 | 36.50 | 1,120 | 0.44 | 0.36 | 61.2 |
| 4/17/2015 15:54:55 | 40.03 | 36.83 | 1,108 | 0.43 | 0.31 | 60.6 |
| 4/17/2015 15:54:55 | 40.35 | 37.15 | 1,108 | 0.43 | 0.31 | 60.6 |
| 4/17/2015 15:54:55 | 40.68 | 37.48 | 1,102 | 0.44 | 0.40 | 60.3 |
| 4/17/2015 15:54:56 | 41.01 | 37.81 | 1,105 | 0.43 | 0.37 | 60.5 |
| 4/17/2015 15:54:56 | 41.34 | 38.14 | 1,105 | 0.43 | 0.37 | 60.5 |
| 4/17/2015 15:54:56 | 41.67 | 38.47 | 1,090 | 0.43 | 0.25 | 59.6 |
| 4/17/2015 15:54:57 | 41.99 | 38.79 | 1,087 | 0.43 | 0.27 | 59.4 |
| 4/17/2015 15:54:57 | 42.32 | 39.12 | 1,087 | 0.43 | 0.27 | 59.4 |
| 4/17/2015 15:54:57 | 42.65 | 39.45 | 1,086 | 0.43 | 0.27 | 59.4 |
| 4/17/2015 15:54:58 | 42.98 | 39.78 | 1,093 | 0.44 | 0.37 | 59.8 |
| 4/17/2015 15:54:58 | 43.31 | 40.11 | 1,093 | 0.44 | 0.37 | 59.8 |
| 4/17/2015 15:54:58 | 43.64 | 40.44 | 1,093 | 0.44 | 0.37 | 59.8 |
| 4/17/2015 15:54:59 | 43.96 | 40.76 | 1,093 | 0.44 | 0.37 | 59.8 |
| 4/17/2015 15:54:59 | 44.29 | 41.09 | 1,098 | 0.43 | 0.34 | 60.0 |
| 4/17/2015 15:54:59 | 44.62 | 41.42 | 1,091 | 0.44 | 0.38 | 59.7 |
| 4/17/2015 15:55:00 | 44.95 | 41.75 | 1,091 | 0.44 | 0.38 | 59.7 |
| 4/17/2015 15:55:00 | 45.28 | 42.08 | 1,091 | 0.43 | 0.29 | 59.6 |
| 4/17/2015 15:55:01 | 45.60 | 42.40 | 1,098 | 0.43 | 0.25 | 60.0 |
| 4/17/2015 15:55:01 | 45.93 | 42.73 | 1,098 | 0.43 | 0.25 | 60.0 |
| 4/17/2015 15:55:01 | 46.26 | 43.06 | 1,090 | 0.43 | 0.26 | 59.6 |
| 4/17/2015 15:55:02 | 46.59 | 43.39 | 1,090 | 0.43 | 0.26 | 59.6 |
| 4/17/2015 15:55:02 | 46.92 | 43.72 | 1,083 | 0.43 | 0.25 | 59.2 |
| 4/17/2015 15:55:02 | 47.24 | 44.04 | 1,093 | 0.43 | 0.29 | 59.8 |
| 4/17/2015 15:55:03 | 47.57 | 44.37 | 1,093 | 0.43 | 0.29 | 59.8 |
| 4/17/2015 15:55:03 | 47.90 | 44.70 | 1,090 | 0.44 | 0.34 | 59.6 |
| 4/17/2015 15:55:03 | 48.23 | 45.03 | 1,087 | 0.43 | 0.30 | 59.4 |
| 4/17/2015 15:55:04 | 48.56 | 45.36 | 1,087 | 0.43 | 0.30 | 59.4 |
| 4/17/2015 15:55:30 | 48.88 | 45.68 | 46 | 3.14 | 0.50 | 2.5 |
| 4/17/2015 15:55:32 | 49.21 | 46.01 | 162 | 2.44 | 0.42 | 8.9 |
| 4/17/2015 15:55:36 | 49.54 | 46.34 | 82 | 3.26 | 0.53 | 4.5 |
| 4/17/2015 15:55:39 | 49.87 | 46.67 | 102 | 2.65 | 0.38 | 5.6 |
| 4/17/2015 15:55:41 | 50.20 | 47.00 | 111 | 3.14 | 0.44 | 6.1 |
| 4/17/2015 15:55:43 | 50.53 | 47.33 | 156 | 2.82 | 0.39 | 8.5 |
| 4/17/2015 15:55:45 | 50.85 | 47.65 | 205 | 2.91 | 0.41 | 11.2 |
| 4/17/2015 15:55:49 | 51.18 | 47.98 | 26 | 3.18 | 0.40 | 1.4 |
| 4/17/2015 15:55:53 | 51.51 | 48.31 | 113 | 3.24 | 0.42 | 6.2 |
| 4/17/2015 15:55:56 | 51.84 | 48.64 | 93 | 3.20 | 0.45 | 5.1 |
| 4/17/2015 15:55:59 | 52.17 | 48.97 | 113 | 3.14 | 0.39 | 6.2 |
| 4/17/2015 15:56:03 | 52.49 | 49.29 | 94 | 2.94 | 0.39 | 5.2 |
| 4/17/2015 15:56:05 | 52.82 | 49.62 | 101 | 3.18 | 0.41 | 5.5 |
| 4/17/2015 15:56:08 | 53.15 | 49.95 | 105 | 3.33 | 0.43 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 15:56:11 | 53.48 | 50.28 | 121 | 3.61 | 0.42 | 6.6 |
| 4/17/2015 | 15:56:15 | 53.81 | 50.61 | 92 | 3.28 | 0.42 | 5.0 |
| 4/17/2015 | 15:56:19 | 54.13 | 50.93 | 99 | 3.17 | 0.41 | 5.4 |
| 4/17/2015 | 15:56:22 | 54.46 | 51.26 | 114 | 3.12 | 0.41 | 6.2 |
| 4/17/2015 | 15:56:25 | 54.79 | 51.59 | 130 | 3.12 | 0.39 | 7.1 |
| 4/17/2015 | 15:56:27 | 55.12 | 51.92 | 162 | 3.19 | 0.41 | 8.9 |
| 4/17/2015 | 15:56:29 | 55.45 | 52.25 | 191 | 2.97 | 0.41 | 10.4 |
| 4/17/2015 | 15:56:30 | 55.77 | 52.57 | 194 | 3.25 | 0.42 | 10.6 |
| 4/17/2015 | 15:56:33 | 56.10 | 52.90 | 156 | 2.99 | 0.41 | 8.5 |
| 4/17/2015 | 15:56:36 | 56.43 | 53.23 | 127 | 2.91 | 0.40 | 7.0 |
| 4/17/2015 | 15:56:38 | 56.76 | 53.56 | 144 | 3.18 | 0.41 | 7.9 |
| 4/17/2015 | 15:56:40 | 57.09 | 53.89 | 167 | 3.15 | 0.42 | 9.2 |
| 4/17/2015 | 15:56:42 | 57.41 | 54.21 | 184 | 3.28 | 0.40 | 10.1 |
| 4/17/2015 | 15:56:43 | 57.74 | 54.54 | 223 | 3.17 | 0.38 | 12.2 |
| 4/17/2015 | 15:56:45 | 58.07 | 54.87 | 246 | 3.45 | 0.44 | 13.5 |
| 4/17/2015 | 15:56:51 | 58.40 | 55.20 | 29 | 2.90 | 0.17 | 1.6 |
| 4/17/2015 | 15:56:53 | 58.50 | 55.30 | 38 | 2.65 | 0.17 | 2.1 |

## A1006 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 15:53:04

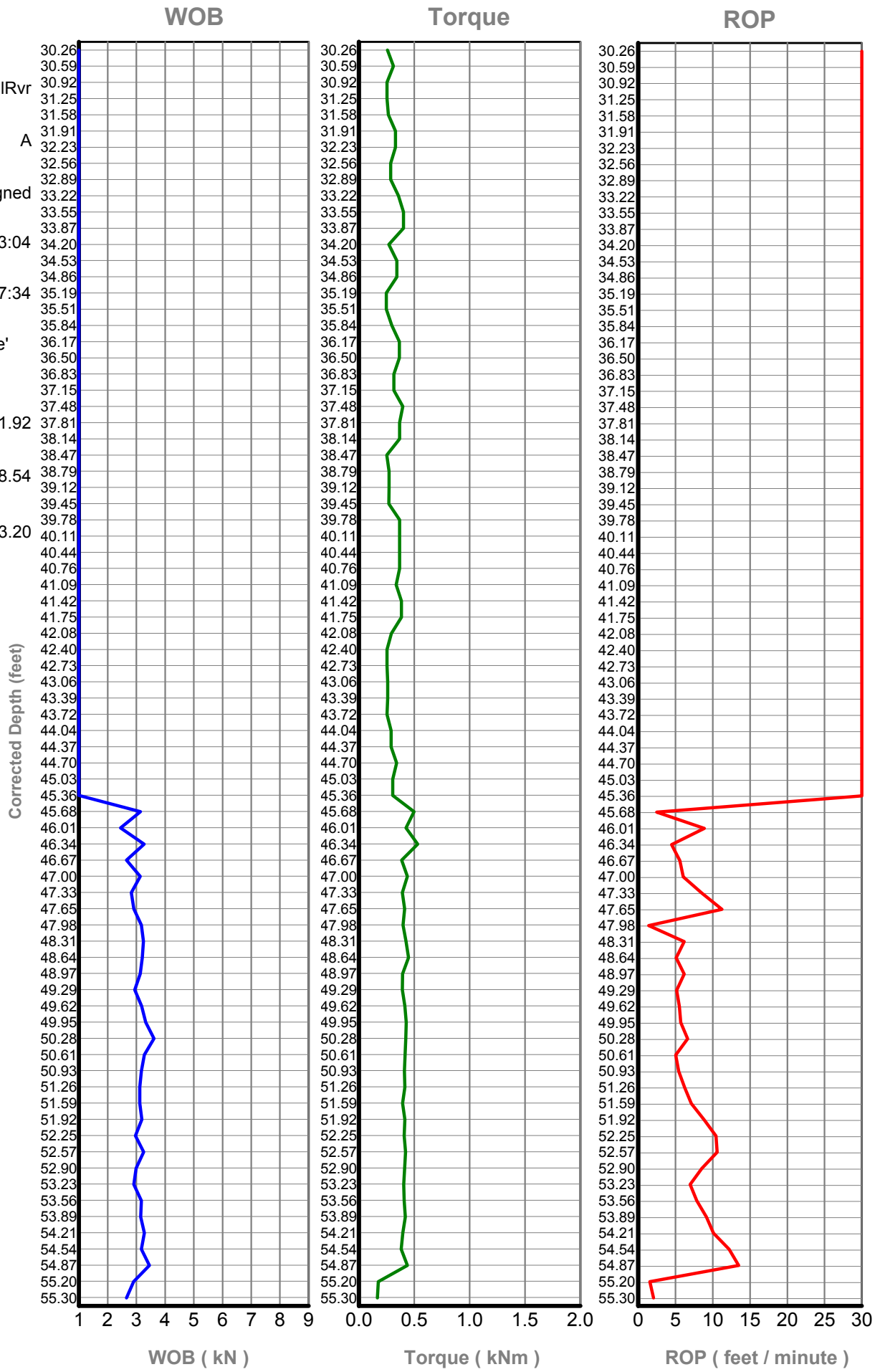
**End Date:**
4/17/2015 15:57:34

**Operator Note:**
'3.2 3.5 a Auto Complete'

**Northing:**
371,491.92

**Easting:**
259,058.54

**Tide (feet):**
3.20



## Hole: A1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:53:14 | 33.46 | 30.26 | 1,071 | 0.28 | 0.34 | 58.6 |
| 4/17/2015 15:53:15 | 33.79 | 30.59 | 1,071 | 0.28 | 0.34 | 58.6 |
| 4/17/2015 15:53:16 | 34.12 | 30.92 | 1,071 | 0.28 | 0.34 | 58.6 |
| 4/17/2015 15:53:16 | 34.45 | 31.25 | 1,066 | 0.28 | 0.33 | 58.3 |
| 4/17/2015 15:53:16 | 34.78 | 31.58 | 1,066 | 0.27 | 0.33 | 58.3 |
| 4/17/2015 15:53:17 | 35.11 | 31.91 | 1,066 | 0.27 | 0.33 | 58.3 |
| 4/17/2015 15:53:17 | 35.43 | 32.23 | 1,056 | 0.28 | 0.34 | 57.7 |
| 4/17/2015 15:53:17 | 35.76 | 32.56 | 1,056 | 0.29 | 0.33 | 57.7 |
| 4/17/2015 15:53:18 | 36.09 | 32.89 | 1,056 | 0.29 | 0.33 | 57.7 |
| 4/17/2015 15:53:18 | 36.42 | 33.22 | 1,083 | 0.29 | 0.33 | 59.2 |
| 4/17/2015 15:53:18 | 36.75 | 33.55 | 1,077 | 0.28 | 0.34 | 58.9 |
| 4/17/2015 15:53:19 | 37.07 | 33.87 | 1,077 | 0.28 | 0.34 | 58.9 |
| 4/17/2015 15:53:19 | 37.40 | 34.20 | 1,057 | 0.28 | 0.34 | 57.8 |
| 4/17/2015 15:53:19 | 37.73 | 34.53 | 1,063 | 0.28 | 0.33 | 58.1 |
| 4/17/2015 15:53:20 | 38.06 | 34.86 | 1,063 | 0.28 | 0.33 | 58.1 |
| 4/17/2015 15:53:20 | 38.39 | 35.19 | 1,053 | 0.28 | 0.38 | 57.6 |
| 4/17/2015 15:53:20 | 38.71 | 35.51 | 1,053 | 0.28 | 0.38 | 57.6 |
| 4/17/2015 15:53:20 | 39.04 | 35.84 | 1,053 | 0.28 | 0.34 | 57.6 |
| 4/17/2015 15:53:21 | 39.37 | 36.17 | 1,041 | 0.29 | 0.33 | 56.9 |
| 4/17/2015 15:53:21 | 39.70 | 36.50 | 1,041 | 0.29 | 0.33 | 56.9 |
| 4/17/2015 15:53:21 | 40.03 | 36.83 | 1,050 | 0.29 | 0.33 | 57.4 |
| 4/17/2015 15:53:22 | 40.35 | 37.15 | 1,061 | 0.28 | 0.34 | 58.0 |
| 4/17/2015 15:53:22 | 40.68 | 37.48 | 1,061 | 0.28 | 0.34 | 58.0 |
| 4/17/2015 15:53:22 | 41.01 | 37.81 | 1,061 | 0.28 | 0.34 | 58.0 |
| 4/17/2015 15:53:23 | 41.34 | 38.14 | 1,057 | 0.28 | 0.33 | 57.8 |
| 4/17/2015 15:53:23 | 41.67 | 38.47 | 1,057 | 0.28 | 0.33 | 57.8 |
| 4/17/2015 15:53:23 | 41.99 | 38.79 | 1,066 | 0.28 | 0.33 | 58.3 |
| 4/17/2015 15:53:24 | 42.32 | 39.12 | 1,054 | 0.28 | 0.34 | 57.6 |
| 4/17/2015 15:53:24 | 42.65 | 39.45 | 1,054 | 0.28 | 0.34 | 57.6 |
| 4/17/2015 15:53:24 | 42.98 | 39.78 | 1,055 | 0.28 | 0.34 | 57.7 |
| 4/17/2015 15:53:25 | 43.31 | 40.11 | 1,061 | 0.29 | 0.34 | 58.0 |
| 4/17/2015 15:53:26 | 43.64 | 40.44 | 1,061 | 0.29 | 0.34 | 58.0 |
| 4/17/2015 15:53:26 | 43.96 | 40.76 | 1,059 | 0.29 | 0.33 | 57.9 |
| 4/17/2015 15:53:26 | 44.29 | 41.09 | 1,062 | 0.22 | 0.34 | 58.1 |
| 4/17/2015 15:53:27 | 44.62 | 41.42 | 1,062 | 0.22 | 0.34 | 58.1 |
| 4/17/2015 15:53:27 | 44.95 | 41.75 | 1,057 | 0.28 | 0.34 | 57.8 |
| 4/17/2015 15:53:27 | 45.28 | 42.08 | 1,057 | 0.28 | 0.34 | 57.8 |
| 4/17/2015 15:53:27 | 45.60 | 42.40 | 1,057 | 0.28 | 0.34 | 57.8 |
| 4/17/2015 15:53:28 | 45.93 | 42.73 | 1,058 | 0.29 | 0.34 | 57.9 |
| 4/17/2015 15:53:28 | 46.26 | 43.06 | 1,058 | 0.29 | 0.34 | 57.9 |
| 4/17/2015 15:53:28 | 46.59 | 43.39 | 1,062 | 0.28 | 0.34 | 58.1 |
| 4/17/2015 15:53:29 | 46.92 | 43.72 | 1,056 | 0.28 | 0.33 | 57.7 |
| 4/17/2015 15:53:29 | 47.24 | 44.04 | 1,056 | 0.28 | 0.33 | 57.7 |
| 4/17/2015 15:53:29 | 47.57 | 44.37 | 1,044 | 0.28 | 0.33 | 57.1 |
| 4/17/2015 15:53:30 | 47.90 | 44.70 | 1,073 | 0.29 | 0.33 | 58.7 |
| 4/17/2015 15:53:30 | 48.23 | 45.03 | 1,073 | 0.29 | 0.33 | 58.7 |
| 4/17/2015 15:53:39 | 48.56 | 45.36 | 0 | 2.05 | 0.36 | 0.0 |
| 4/17/2015 15:53:42 | 48.88 | 45.68 | 136 | 2.93 | 0.41 | 7.4 |
| 4/17/2015 15:53:48 | 49.21 | 46.01 | 71 | 2.81 | 0.40 | 3.9 |
| 4/17/2015 15:53:50 | 49.54 | 46.34 | 122 | 3.29 | 0.42 | 6.6 |
| 4/17/2015 15:53:53 | 49.87 | 46.67 | 119 | 3.11 | 0.41 | 6.5 |
| 4/17/2015 15:54:05 | 50.20 | 47.00 | 29 | 3.23 | 0.41 | 1.6 |
| 4/17/2015 15:54:08 | 50.53 | 47.33 | 119 | 3.16 | 0.42 | 6.5 |
| 4/17/2015 15:54:13 | 50.85 | 47.65 | 79 | 2.78 | 0.41 | 4.3 |
| 4/17/2015 15:54:18 | 51.18 | 47.98 | 73 | 2.88 | 0.42 | 4.0 |
| 4/17/2015 15:54:22 | 51.51 | 48.31 | 87 | 2.82 | 0.40 | 4.7 |
| 4/17/2015 15:54:26 | 51.84 | 48.64 | 78 | 2.70 | 0.41 | 4.3 |
| 4/17/2015 15:54:31 | 52.17 | 48.97 | 84 | 3.20 | 0.42 | 4.6 |
| 4/17/2015 15:54:36 | 52.49 | 49.29 | 75 | 2.84 | 0.42 | 4.1 |
| 4/17/2015 15:54:40 | 52.82 | 49.62 | 84 | 3.00 | 0.42 | 4.6 |
| 4/17/2015 15:54:44 | 53.15 | 49.95 | 90 | 2.80 | 0.41 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 15:54:47 | 53.48 | 50.28 | 100 | 3.12 | 0.42 | 5.5 |
| 4/17/2015 | 15:54:51 | 53.81 | 50.61 | 98 | 3.14 | 0.43 | 5.4 |
| 4/17/2015 | 15:54:55 | 54.13 | 50.93 | 90 | 3.06 | 0.40 | 4.9 |
| 4/17/2015 | 15:55:00 | 54.46 | 51.26 | 78 | 2.99 | 0.42 | 4.3 |
| 4/17/2015 | 15:55:04 | 54.79 | 51.59 | 79 | 3.43 | 0.42 | 4.3 |
| 4/17/2015 | 15:55:09 | 55.12 | 51.92 | 87 | 3.19 | 0.40 | 4.7 |
| 4/17/2015 | 15:55:12 | 55.45 | 52.25 | 102 | 3.42 | 0.41 | 5.6 |
| 4/17/2015 | 15:55:16 | 55.77 | 52.57 | 80 | 3.14 | 0.42 | 4.4 |
| 4/17/2015 | 15:55:22 | 56.10 | 52.90 | 71 | 3.14 | 0.39 | 3.9 |
| 4/17/2015 | 15:55:27 | 56.43 | 53.23 | 73 | 2.81 | 0.42 | 4.0 |
| 4/17/2015 | 15:55:32 | 56.76 | 53.56 | 81 | 2.98 | 0.41 | 4.4 |
| 4/17/2015 | 15:55:36 | 57.09 | 53.89 | 72 | 2.87 | 0.41 | 4.0 |
| 4/17/2015 | 15:55:41 | 57.41 | 54.21 | 75 | 3.19 | 0.41 | 4.1 |
| 4/17/2015 | 15:55:46 | 57.74 | 54.54 | 73 | 3.15 | 0.42 | 4.0 |
| 4/17/2015 | 15:55:50 | 58.07 | 54.87 | 79 | 3.01 | 0.41 | 4.3 |
| 4/17/2015 | 15:55:54 | 58.40 | 55.20 | 85 | 3.10 | 0.42 | 4.7 |
| 4/17/2015 | 15:55:55 | 58.48 | 55.28 | 88 | 3.12 | 0.42 | 4.8 |

## A1007 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 15:51:04

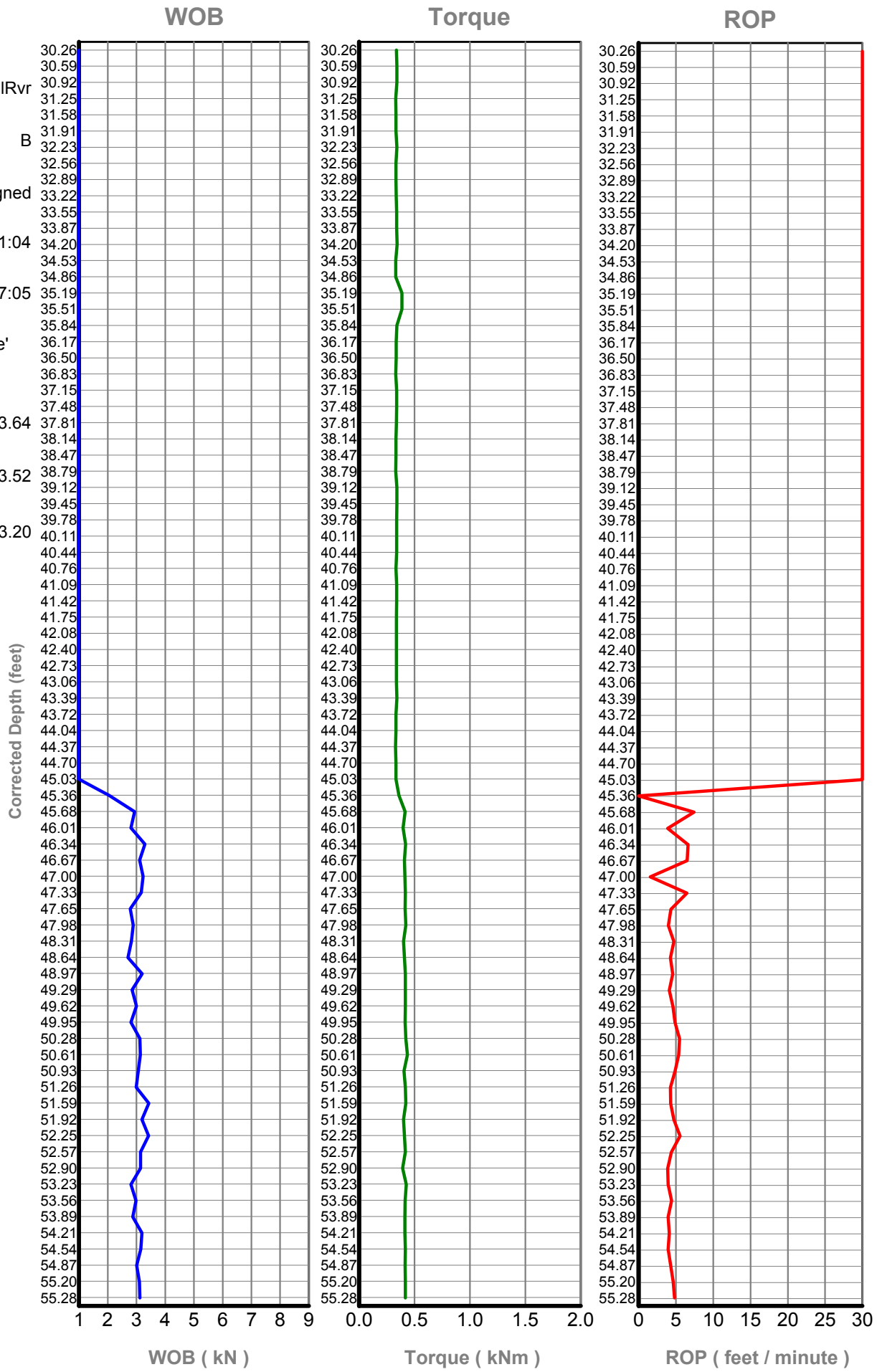
**End Date:**
4/17/2015 15:57:05

**Operator Note:**
'3.2 3.5 b Auto Complete'

**Northing:**
371,493.64

**Easting:**
259,133.52

**Tide (feet):**
3.20



## Hole: A1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 15:55:16 | 33.46 | 30.26 | 639 | 2.12 | 0.26 | 35.0 |
| 4/17/2015 15:55:16 | 33.79 | 30.59 | 645 | 2.13 | 0.26 | 35.3 |
| 4/17/2015 15:55:17 | 34.12 | 30.92 | 634 | 2.14 | 0.26 | 34.7 |
| 4/17/2015 15:55:17 | 34.45 | 31.25 | 641 | 2.15 | 0.26 | 35.1 |
| 4/17/2015 15:55:18 | 34.78 | 31.58 | 637 | 2.12 | 0.26 | 34.8 |
| 4/17/2015 15:55:18 | 35.11 | 31.91 | 630 | 2.14 | 0.25 | 34.5 |
| 4/17/2015 15:55:19 | 35.43 | 32.23 | 627 | 2.13 | 0.25 | 34.3 |
| 4/17/2015 15:55:19 | 35.76 | 32.56 | 630 | 2.14 | 0.25 | 34.5 |
| 4/17/2015 15:55:20 | 36.09 | 32.89 | 633 | 2.14 | 0.26 | 34.6 |
| 4/17/2015 15:55:21 | 36.42 | 33.22 | 630 | 2.12 | 0.25 | 34.5 |
| 4/17/2015 15:55:21 | 36.75 | 33.55 | 630 | 2.15 | 0.25 | 34.5 |
| 4/17/2015 15:55:22 | 37.07 | 33.87 | 629 | 2.14 | 0.25 | 34.4 |
| 4/17/2015 15:55:23 | 37.40 | 34.20 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 15:55:23 | 37.73 | 34.53 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 15:55:24 | 38.06 | 34.86 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 15:55:24 | 38.39 | 35.19 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 15:55:25 | 38.71 | 35.51 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 15:55:25 | 39.04 | 35.84 | 630 | 2.13 | 0.25 | 34.5 |
| 4/17/2015 15:55:26 | 39.37 | 36.17 | 629 | 2.13 | 0.25 | 34.4 |
| 4/17/2015 15:55:26 | 39.70 | 36.50 | 625 | 2.13 | 0.25 | 34.2 |
| 4/17/2015 15:55:27 | 40.03 | 36.83 | 630 | 2.13 | 0.25 | 34.5 |
| 4/17/2015 15:55:27 | 40.35 | 37.15 | 634 | 2.13 | 0.25 | 34.7 |
| 4/17/2015 15:55:28 | 40.68 | 37.48 | 630 | 2.13 | 0.25 | 34.4 |
| 4/17/2015 15:55:29 | 41.01 | 37.81 | 638 | 2.14 | 0.25 | 34.9 |
| 4/17/2015 15:55:29 | 41.34 | 38.14 | 630 | 2.13 | 0.25 | 34.5 |
| 4/17/2015 15:55:30 | 41.67 | 38.47 | 626 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:31 | 41.99 | 38.79 | 634 | 2.12 | 0.25 | 34.7 |
| 4/17/2015 15:55:31 | 42.32 | 39.12 | 627 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:32 | 42.65 | 39.45 | 627 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:32 | 42.98 | 39.78 | 617 | 2.14 | 0.25 | 33.8 |
| 4/17/2015 15:55:33 | 43.31 | 40.11 | 617 | 2.13 | 0.25 | 33.8 |
| 4/17/2015 15:55:33 | 43.64 | 40.44 | 623 | 2.14 | 0.25 | 34.1 |
| 4/17/2015 15:55:34 | 43.96 | 40.76 | 620 | 2.14 | 0.25 | 33.9 |
| 4/17/2015 15:55:35 | 44.29 | 41.09 | 623 | 2.12 | 0.25 | 34.1 |
| 4/17/2015 15:55:35 | 44.62 | 41.42 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 15:55:36 | 44.95 | 41.75 | 628 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:36 | 45.28 | 42.08 | 624 | 2.14 | 0.25 | 34.1 |
| 4/17/2015 15:55:37 | 45.60 | 42.40 | 631 | 2.14 | 0.25 | 34.5 |
| 4/17/2015 15:55:37 | 45.93 | 42.73 | 624 | 2.13 | 0.25 | 34.1 |
| 4/17/2015 15:55:38 | 46.26 | 43.06 | 627 | 2.12 | 0.25 | 34.3 |
| 4/17/2015 15:55:38 | 46.59 | 43.39 | 627 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:39 | 46.92 | 43.72 | 630 | 2.14 | 0.25 | 34.5 |
| 4/17/2015 15:55:39 | 47.24 | 44.04 | 627 | 2.14 | 0.25 | 34.3 |
| 4/17/2015 15:55:41 | 47.57 | 44.37 | 604 | 2.23 | 0.25 | 33.0 |
| 4/17/2015 15:55:42 | 47.90 | 44.70 | 355 | 2.28 | 0.25 | 19.4 |
| 4/17/2015 15:56:13 | 48.23 | 45.03 | 33 | 2.20 | 1.00 | 1.8 |
| 4/17/2015 15:56:14 | 48.56 | 45.36 | 196 | 2.21 | 1.06 | 10.7 |
| 4/17/2015 15:56:15 | 48.88 | 45.68 | 333 | 2.23 | 1.13 | 18.2 |
| 4/17/2015 15:56:16 | 49.21 | 46.01 | 282 | 2.26 | 1.09 | 15.4 |
| 4/17/2015 15:56:19 | 49.54 | 46.34 | 154 | 2.28 | 1.13 | 8.4 |
| 4/17/2015 15:56:23 | 49.87 | 46.67 | 73 | 2.28 | 1.14 | 4.0 |
| 4/17/2015 15:56:25 | 50.20 | 47.00 | 142 | 2.29 | 1.23 | 7.8 |
| 4/17/2015 15:56:27 | 50.53 | 47.33 | 159 | 2.33 | 1.27 | 8.7 |
| 4/17/2015 15:56:31 | 50.85 | 47.65 | 98 | 2.35 | 1.28 | 5.3 |
| 4/17/2015 15:56:36 | 51.18 | 47.98 | 71 | 2.33 | 1.35 | 3.9 |
| 4/17/2015 15:56:41 | 51.51 | 48.31 | 55 | 2.35 | 1.41 | 3.0 |
| 4/17/2015 15:56:48 | 51.84 | 48.64 | 63 | 2.36 | 1.41 | 3.5 |
| 4/17/2015 15:56:52 | 52.17 | 48.97 | 81 | 2.33 | 1.43 | 4.4 |
| 4/17/2015 15:56:56 | 52.49 | 49.29 | 95 | 2.33 | 1.35 | 5.2 |
| 4/17/2015 15:57:00 | 52.82 | 49.62 | 76 | 2.36 | 1.45 | 4.1 |
| 4/17/2015 15:57:05 | 53.04 | 49.84 | 44 | 2.34 | 1.48 | 2.4 |

## A1008 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/17/2015 15:52:27

**End Date:**
4/17/2015 16:01:16

**Operator Note:**
'3.2 3.5 c Auto Complete'

**Northing:**
371,495.36

**Easting:**
259,208.50

**Tide (feet):**
3.20



## Hole: A1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 14:53:12 | 34.45 | 30.25 | 1,136 | 0.51 | 0.34 | 62.1 |
| 4/17/2015 14:53:12 | 34.78 | 30.58 | 1,142 | 0.51 | 0.33 | 62.4 |
| 4/17/2015 14:53:13 | 35.11 | 30.91 | 1,142 | 0.51 | 0.33 | 62.4 |
| 4/17/2015 14:53:13 | 35.43 | 31.23 | 1,139 | 0.50 | 0.34 | 62.3 |
| 4/17/2015 14:53:13 | 35.76 | 31.56 | 1,136 | 0.51 | 0.33 | 62.1 |
| 4/17/2015 14:53:14 | 36.09 | 31.89 | 1,136 | 0.51 | 0.33 | 62.1 |
| 4/17/2015 14:53:14 | 36.42 | 32.22 | 1,136 | 0.51 | 0.33 | 62.1 |
| 4/17/2015 14:53:14 | 36.75 | 32.55 | 1,149 | 0.51 | 0.34 | 62.8 |
| 4/17/2015 14:53:15 | 37.07 | 32.87 | 1,149 | 0.51 | 0.34 | 62.8 |
| 4/17/2015 14:53:15 | 37.40 | 33.20 | 1,136 | 0.53 | 0.33 | 62.1 |
| 4/17/2015 14:53:15 | 37.73 | 33.53 | 1,136 | 0.53 | 0.33 | 62.1 |
| 4/17/2015 14:53:15 | 38.06 | 33.86 | 1,143 | 0.51 | 0.33 | 62.5 |
| 4/17/2015 14:53:16 | 38.39 | 34.19 | 1,139 | 0.50 | 0.33 | 62.3 |
| 4/17/2015 14:53:16 | 38.71 | 34.51 | 1,139 | 0.50 | 0.33 | 62.3 |
| 4/17/2015 14:53:16 | 39.04 | 34.84 | 1,145 | 0.50 | 0.33 | 62.6 |
| 4/17/2015 14:53:17 | 39.37 | 35.17 | 1,145 | 0.50 | 0.33 | 62.6 |
| 4/17/2015 14:53:17 | 39.70 | 35.50 | 1,142 | 0.54 | 0.34 | 62.4 |
| 4/17/2015 14:53:17 | 40.03 | 35.83 | 1,145 | 0.50 | 0.34 | 62.6 |
| 4/17/2015 14:53:18 | 40.35 | 36.15 | 1,145 | 0.50 | 0.34 | 62.6 |
| 4/17/2015 14:53:18 | 40.68 | 36.48 | 1,135 | 0.51 | 0.34 | 62.1 |
| 4/17/2015 14:53:18 | 41.01 | 36.81 | 1,135 | 0.51 | 0.34 | 62.1 |
| 4/17/2015 14:53:18 | 41.34 | 37.14 | 1,142 | 0.51 | 0.33 | 62.4 |
| 4/17/2015 14:53:19 | 41.67 | 37.47 | 1,139 | 0.50 | 0.33 | 62.3 |
| 4/17/2015 14:53:20 | 41.99 | 37.79 | 1,139 | 0.50 | 0.33 | 62.3 |
| 4/17/2015 14:53:19 | 42.32 | 38.12 | 1,117 | 0.51 | 0.32 | 61.1 |
| 4/17/2015 14:53:20 | 42.65 | 38.45 | 1,117 | 0.51 | 0.32 | 61.1 |
| 4/17/2015 14:53:20 | 42.98 | 38.78 | 1,117 | 0.50 | 0.33 | 61.1 |
| 4/17/2015 14:53:21 | 43.31 | 39.11 | 1,129 | 0.50 | 0.33 | 61.7 |
| 4/17/2015 14:53:21 | 43.64 | 39.44 | 1,129 | 0.50 | 0.33 | 61.7 |
| 4/17/2015 14:53:21 | 43.96 | 39.76 | 1,136 | 0.50 | 0.33 | 62.1 |
| 4/17/2015 14:53:22 | 44.29 | 40.09 | 1,136 | 0.50 | 0.33 | 62.1 |
| 4/17/2015 14:53:22 | 44.62 | 40.42 | 1,129 | 0.50 | 0.34 | 61.7 |
| 4/17/2015 14:53:22 | 44.95 | 40.75 | 1,126 | 0.51 | 0.34 | 61.6 |
| 4/17/2015 14:53:23 | 45.28 | 41.08 | 1,126 | 0.51 | 0.34 | 61.6 |
| 4/17/2015 14:53:23 | 45.60 | 41.40 | 1,148 | 0.51 | 0.33 | 62.8 |
| 4/17/2015 14:53:23 | 45.93 | 41.73 | 1,148 | 0.51 | 0.33 | 62.8 |
| 4/17/2015 14:53:23 | 46.26 | 42.06 | 1,136 | 0.50 | 0.33 | 62.1 |
| 4/17/2015 14:53:24 | 46.59 | 42.39 | 1,136 | 0.53 | 0.43 | 62.1 |
| 4/17/2015 14:53:36 | 46.92 | 42.72 | 21 | 3.84 | 0.47 | 1.1 |
| 4/17/2015 14:53:38 | 47.24 | 43.04 | 178 | 3.94 | 0.52 | 9.7 |
| 4/17/2015 14:53:40 | 47.57 | 43.37 | 129 | 4.00 | 0.49 | 7.0 |
| 4/17/2015 14:53:41 | 47.90 | 43.70 | 201 | 4.02 | 0.47 | 11.0 |
| 4/17/2015 14:53:42 | 48.23 | 44.03 | 286 | 3.96 | 0.46 | 15.6 |
| 4/17/2015 14:53:43 | 48.56 | 44.36 | 362 | 3.63 | 0.43 | 19.8 |
| 4/17/2015 14:53:44 | 48.88 | 44.68 | 391 | 3.68 | 0.46 | 21.4 |
| 4/17/2015 14:53:45 | 49.21 | 45.01 | 399 | 3.72 | 0.47 | 21.8 |
| 4/17/2015 14:53:46 | 49.54 | 45.34 | 335 | 3.78 | 0.50 | 18.3 |
| 4/17/2015 14:53:49 | 49.87 | 45.67 | 156 | 3.75 | 0.52 | 8.5 |
| 4/17/2015 14:53:53 | 50.20 | 46.00 | 78 | 3.62 | 0.52 | 4.3 |
| 4/17/2015 14:53:58 | 50.53 | 46.33 | 74 | 3.50 | 0.43 | 4.1 |
| 4/17/2015 14:54:02 | 50.85 | 46.65 | 98 | 3.32 | 0.49 | 5.3 |
| 4/17/2015 14:54:04 | 51.18 | 46.98 | 142 | 3.54 | 0.46 | 7.8 |
| 4/17/2015 14:54:07 | 51.51 | 47.31 | 139 | 3.58 | 0.45 | 7.6 |
| 4/17/2015 14:54:09 | 51.84 | 47.64 | 156 | 3.67 | 0.44 | 8.5 |
| 4/17/2015 14:54:11 | 52.17 | 47.97 | 176 | 3.54 | 0.44 | 9.6 |
| 4/17/2015 14:54:13 | 52.49 | 48.29 | 201 | 3.53 | 0.45 | 11.0 |
| 4/17/2015 14:54:14 | 52.82 | 48.62 | 215 | 4.28 | 0.44 | 11.8 |
| 4/17/2015 14:54:16 | 53.15 | 48.95 | 174 | 4.46 | 0.47 | 9.5 |
| 4/17/2015 14:54:18 | 53.48 | 49.28 | 153 | 4.33 | 0.45 | 8.4 |
| 4/17/2015 14:54:21 | 53.81 | 49.61 | 161 | 5.02 | 0.44 | 8.8 |
| 4/17/2015 14:54:24 | 54.13 | 49.93 | 101 | 5.29 | 0.47 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 14:54:29 | 54.46 | 50.26 | 32 | 4.60 | 0.42 | 1.8 |
| 4/17/2015 | 14:54:32 | 54.79 | 50.59 | 125 | 5.10 | 0.15 | 6.8 |
| 4/17/2015 | 14:54:40 | 55.12 | 50.92 | 89 | 5.23 | 0.44 | 4.9 |
| 4/17/2015 | 14:54:57 | 55.45 | 51.25 | 0 | 4.55 | 0.36 | 0.0 |
| 4/17/2015 | 14:54:59 | 55.77 | 51.57 | 130 | 5.21 | 0.41 | 7.1 |
| 4/17/2015 | 14:55:03 | 56.10 | 51.90 | 101 | 5.59 | 0.40 | 5.5 |
| 4/17/2015 | 14:56:18 | 56.43 | 52.23 | 58 | 5.65 | 0.49 | 3.2 |
| 4/17/2015 | 14:56:22 | 56.59 | 52.39 | 49 | 5.78 | 0.18 | 2.7 |

## A1009 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 14:51:43

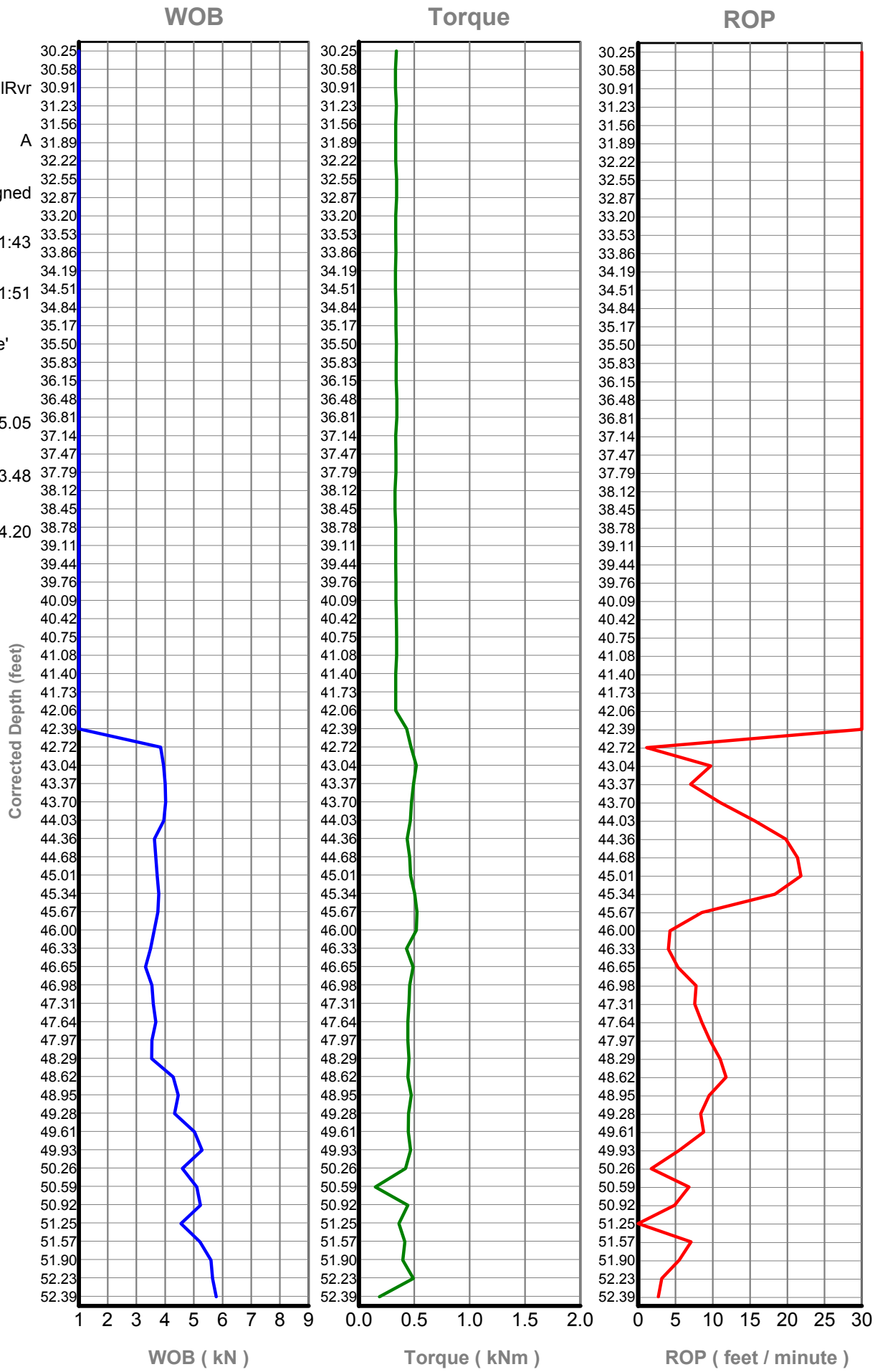
**End Date:**
4/17/2015 15:01:51

**Operator Note:**
'4.2 4.6 a Auto Complete'

**Northing:**
371,485.05

**Easting:**
259,283.48

**Tide (feet):**
4.20



## Hole: A1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 14:54:20 | 34.45 | 30.25 | 885 | 0.36 | 0.35 | 48.4 |
| 4/17/2015 14:54:20 | 34.78 | 30.58 | 888 | 0.35 | 0.36 | 48.5 |
| 4/17/2015 14:54:21 | 35.11 | 30.91 | 889 | 0.35 | 0.36 | 48.6 |
| 4/17/2015 14:54:21 | 35.43 | 31.23 | 886 | 0.36 | 0.36 | 48.5 |
| 4/17/2015 14:54:22 | 35.76 | 31.56 | 886 | 0.36 | 0.36 | 48.5 |
| 4/17/2015 14:54:22 | 36.09 | 31.89 | 878 | 0.36 | 0.35 | 48.0 |
| 4/17/2015 14:54:22 | 36.42 | 32.22 | 887 | 0.35 | 0.36 | 48.5 |
| 4/17/2015 14:54:23 | 36.75 | 32.55 | 869 | 0.36 | 0.35 | 47.5 |
| 4/17/2015 14:54:23 | 37.07 | 32.87 | 877 | 0.35 | 0.36 | 48.0 |
| 4/17/2015 14:54:24 | 37.40 | 33.20 | 877 | 0.35 | 0.36 | 48.0 |
| 4/17/2015 14:54:24 | 37.73 | 33.53 | 860 | 0.36 | 0.36 | 47.0 |
| 4/17/2015 14:54:24 | 38.06 | 33.86 | 860 | 0.36 | 0.35 | 47.0 |
| 4/17/2015 14:54:25 | 38.39 | 34.19 | 872 | 0.36 | 0.36 | 47.7 |
| 4/17/2015 14:54:25 | 38.71 | 34.51 | 872 | 0.36 | 0.36 | 47.7 |
| 4/17/2015 14:54:25 | 39.04 | 34.84 | 872 | 0.36 | 0.35 | 47.7 |
| 4/17/2015 14:54:26 | 39.37 | 35.17 | 879 | 0.35 | 0.36 | 48.1 |
| 4/17/2015 14:54:26 | 39.70 | 35.50 | 870 | 0.36 | 0.36 | 47.6 |
| 4/17/2015 14:54:27 | 40.03 | 35.83 | 880 | 0.36 | 0.35 | 48.1 |
| 4/17/2015 14:54:27 | 40.35 | 36.15 | 880 | 0.36 | 0.35 | 48.1 |
| 4/17/2015 14:54:27 | 40.68 | 36.48 | 874 | 0.36 | 0.36 | 47.8 |
| 4/17/2015 14:54:28 | 41.01 | 36.81 | 856 | 0.36 | 0.35 | 46.8 |
| 4/17/2015 14:54:28 | 41.34 | 37.14 | 856 | 0.36 | 0.35 | 46.8 |
| 4/17/2015 14:54:29 | 41.67 | 37.47 | 860 | 0.36 | 0.35 | 47.0 |
| 4/17/2015 14:54:30 | 41.99 | 37.79 | 860 | 0.36 | 0.35 | 47.0 |
| 4/17/2015 14:54:29 | 42.32 | 38.12 | 866 | 0.36 | 0.35 | 47.4 |
| 4/17/2015 14:54:30 | 42.65 | 38.45 | 885 | 0.36 | 0.36 | 48.4 |
| 4/17/2015 14:54:31 | 42.98 | 38.78 | 856 | 0.36 | 0.36 | 46.8 |
| 4/17/2015 14:54:31 | 43.31 | 39.11 | 856 | 0.36 | 0.36 | 46.8 |
| 4/17/2015 14:54:31 | 43.64 | 39.44 | 856 | 0.36 | 0.36 | 46.8 |
| 4/17/2015 14:54:32 | 43.96 | 39.76 | 889 | 0.36 | 0.35 | 48.6 |
| 4/17/2015 14:54:32 | 44.29 | 40.09 | 860 | 0.36 | 0.36 | 47.0 |
| 4/17/2015 14:54:33 | 44.62 | 40.42 | 860 | 0.36 | 0.36 | 47.0 |
| 4/17/2015 14:54:33 | 44.95 | 40.75 | 860 | 0.36 | 0.35 | 47.0 |
| 4/17/2015 14:54:33 | 45.28 | 41.08 | 866 | 0.31 | 0.35 | 47.4 |
| 4/17/2015 14:54:34 | 45.60 | 41.40 | 858 | 0.36 | 0.36 | 46.9 |
| 4/17/2015 14:54:34 | 45.93 | 41.73 | 887 | 0.36 | 0.35 | 48.5 |
| 4/17/2015 14:54:35 | 46.26 | 42.06 | 887 | 0.36 | 0.35 | 48.5 |
| 4/17/2015 14:54:35 | 46.59 | 42.39 | 872 | 0.36 | 0.36 | 47.7 |
| 4/17/2015 14:54:35 | 46.92 | 42.72 | 896 | 0.36 | 0.35 | 49.0 |
| 4/17/2015 14:54:36 | 47.24 | 43.04 | 877 | 0.36 | 0.36 | 48.0 |
| 4/17/2015 14:54:36 | 47.57 | 43.37 | 877 | 0.36 | 0.35 | 48.0 |
| 4/17/2015 14:54:37 | 47.90 | 43.70 | 877 | 0.36 | 0.35 | 48.0 |
| 4/17/2015 14:54:37 | 48.23 | 44.03 | 881 | 0.36 | 0.36 | 48.2 |
| 4/17/2015 14:54:37 | 48.56 | 44.36 | 873 | 0.36 | 0.35 | 47.7 |
| 4/17/2015 14:54:38 | 48.88 | 44.68 | 878 | 0.36 | 0.36 | 48.0 |
| 4/17/2015 14:54:38 | 49.21 | 45.01 | 878 | 0.36 | 0.36 | 48.0 |
| 4/17/2015 14:54:56 | 49.54 | 45.34 | 26 | 4.08 | 0.43 | 1.4 |
| 4/17/2015 14:55:03 | 49.87 | 45.67 | 104 | 4.56 | 0.40 | 5.7 |
| 4/17/2015 14:55:04 | 50.20 | 46.00 | 237 | 3.77 | 0.40 | 12.9 |
| 4/17/2015 14:55:13 | 50.53 | 46.33 | 86 | 3.77 | 0.42 | 4.7 |
| 4/17/2015 14:55:17 | 50.85 | 46.65 | 88 | 3.75 | 0.42 | 4.8 |
| 4/17/2015 14:55:20 | 51.18 | 46.98 | 126 | 3.81 | 0.43 | 6.9 |
| 4/17/2015 14:55:23 | 51.51 | 47.31 | 144 | 3.68 | 0.40 | 7.9 |
| 4/17/2015 14:55:34 | 51.84 | 47.64 | 110 | 3.60 | 0.41 | 6.0 |
| 4/17/2015 14:55:35 | 52.17 | 47.97 | 196 | 3.11 | 0.39 | 10.7 |
| 4/17/2015 14:55:35 | 52.49 | 48.29 | 284 | 2.78 | 0.40 | 15.5 |
| 4/17/2015 14:55:36 | 52.82 | 48.62 | 376 | 2.63 | 0.40 | 20.5 |
| 4/17/2015 14:55:37 | 53.15 | 48.95 | 474 | 2.93 | 0.39 | 25.9 |
| 4/17/2015 14:55:39 | 53.48 | 49.28 | 153 | 3.52 | 0.42 | 8.4 |
| 4/17/2015 14:55:41 | 53.81 | 49.61 | 151 | 3.45 | 0.42 | 8.2 |
| 4/17/2015 14:55:45 | 54.13 | 49.93 | 121 | 3.39 | 0.41 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 14:55:48 | 54.46 | 50.26 | 87 | 3.32 | 0.42 | 4.7 |
| 4/17/2015 | 14:55:54 | 54.79 | 50.59 | 69 | 3.16 | 0.42 | 3.8 |
| 4/17/2015 | 14:55:58 | 55.12 | 50.92 | 74 | 3.31 | 0.43 | 4.1 |
| 4/17/2015 | 14:56:02 | 55.45 | 51.25 | 85 | 3.48 | 0.42 | 4.7 |
| 4/17/2015 | 14:56:06 | 55.77 | 51.57 | 125 | 3.48 | 0.42 | 6.9 |
| 4/17/2015 | 14:56:10 | 56.10 | 51.90 | 73 | 3.13 | 0.42 | 4.0 |
| 4/17/2015 | 14:56:16 | 56.43 | 52.23 | 61 | 3.28 | 0.42 | 3.3 |
| 4/17/2015 | 14:56:22 | 56.76 | 52.56 | 58 | 3.15 | 0.42 | 3.2 |
| 4/17/2015 | 14:56:28 | 57.09 | 52.89 | 60 | 3.30 | 0.42 | 3.3 |
| 4/17/2015 | 14:56:32 | 57.41 | 53.21 | 87 | 3.39 | 0.41 | 4.8 |
| 4/17/2015 | 14:56:34 | 57.74 | 53.54 | 126 | 3.60 | 0.43 | 6.9 |
| 4/17/2015 | 14:56:39 | 58.07 | 53.87 | 81 | 3.47 | 0.43 | 4.4 |
| 4/17/2015 | 14:56:44 | 58.40 | 54.20 | 66 | 3.12 | 0.42 | 3.6 |
| 4/17/2015 | 14:56:50 | 58.73 | 54.53 | 53 | 3.01 | 0.43 | 2.9 |
| 4/17/2015 | 14:56:57 | 59.06 | 54.86 | 52 | 3.03 | 0.43 | 2.8 |
| 4/17/2015 | 14:57:04 | 59.38 | 55.18 | 49 | 3.25 | 0.43 | 2.7 |
| 4/17/2015 | 14:57:08 | 59.59 | 55.39 | 55 | 3.44 | 0.42 | 3.0 |

## A1010 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 14:51:42

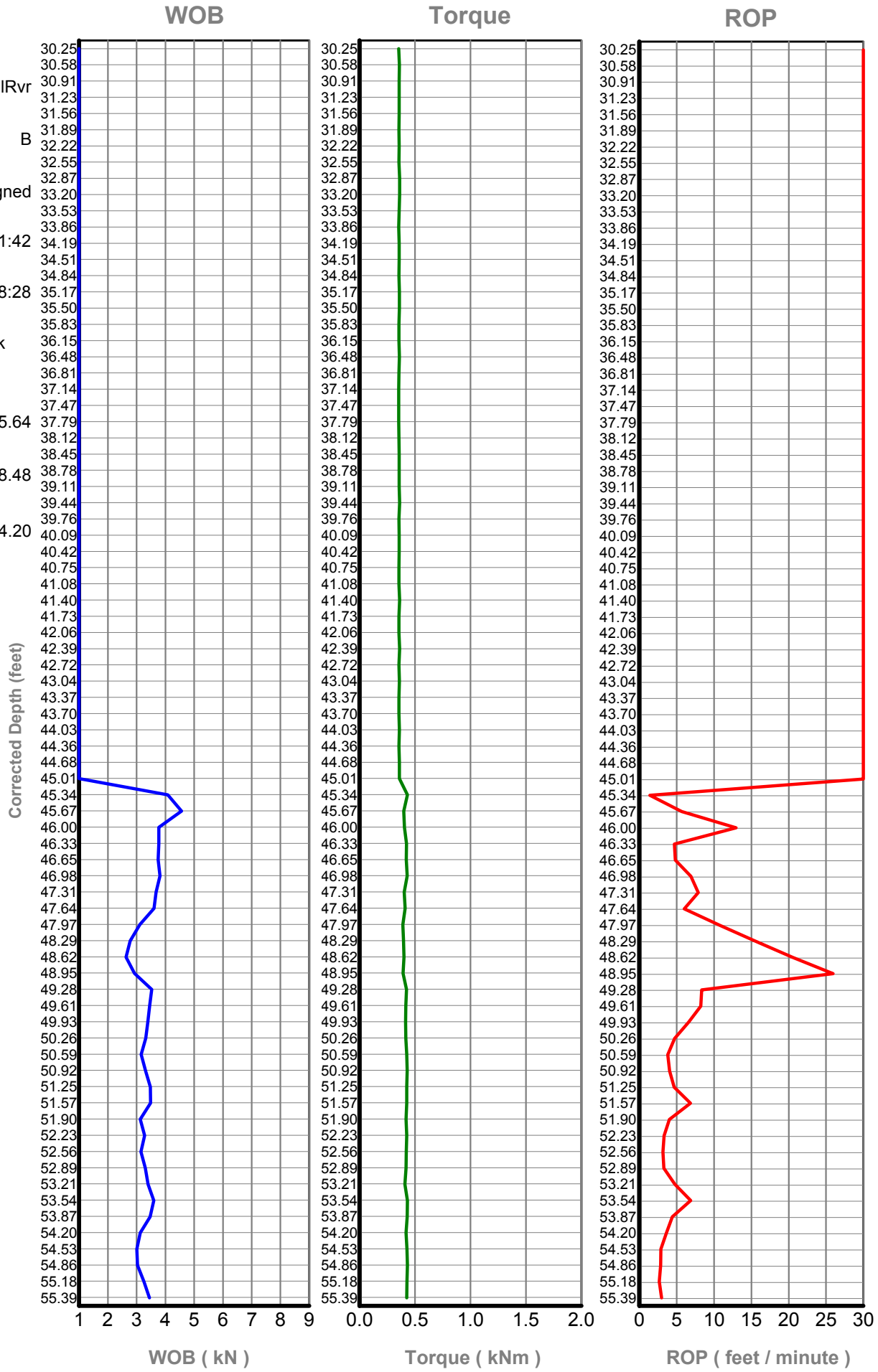
**End Date:**
4/17/2015 14:58:28

**Operator Note:**
'4.2 4.6 b Hit steady rock @58.5"

**Northing:**
371,485.64

**Easting:**
259,358.48

**Tide (feet):**
4.20



## Hole: A1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 14:58:17 | 34.45 | 30.25 | 630 | 2.14 | 0.27 | 34.5 |
| 4/17/2015 14:58:17 | 34.78 | 30.58 | 626 | 2.15 | 0.27 | 34.3 |
| 4/17/2015 14:58:18 | 35.11 | 30.91 | 633 | 2.14 | 0.27 | 34.6 |
| 4/17/2015 14:58:18 | 35.43 | 31.23 | 627 | 2.14 | 0.27 | 34.3 |
| 4/17/2015 14:58:19 | 35.76 | 31.56 | 624 | 2.17 | 0.26 | 34.1 |
| 4/17/2015 14:58:19 | 36.09 | 31.89 | 621 | 2.15 | 0.26 | 34.0 |
| 4/17/2015 14:58:20 | 36.42 | 32.22 | 616 | 2.20 | 0.26 | 33.7 |
| 4/17/2015 14:58:20 | 36.75 | 32.55 | 591 | 2.14 | 0.26 | 32.3 |
| 4/17/2015 14:58:21 | 37.07 | 32.87 | 595 | 2.14 | 0.26 | 32.5 |
| 4/17/2015 14:58:22 | 37.40 | 33.20 | 595 | 2.15 | 0.26 | 32.5 |
| 4/17/2015 14:58:22 | 37.73 | 33.53 | 596 | 2.16 | 0.26 | 32.6 |
| 4/17/2015 14:58:23 | 38.06 | 33.86 | 592 | 2.15 | 0.27 | 32.4 |
| 4/17/2015 14:58:23 | 38.39 | 34.19 | 591 | 2.15 | 0.26 | 32.3 |
| 4/17/2015 14:58:24 | 38.71 | 34.51 | 591 | 2.14 | 0.27 | 32.3 |
| 4/17/2015 14:58:25 | 39.04 | 34.84 | 615 | 2.14 | 0.27 | 33.6 |
| 4/17/2015 14:58:25 | 39.37 | 35.17 | 615 | 2.14 | 0.27 | 33.6 |
| 4/17/2015 14:58:26 | 39.70 | 35.50 | 608 | 2.16 | 0.26 | 33.2 |
| 4/17/2015 14:58:27 | 40.03 | 35.83 | 618 | 2.14 | 0.27 | 33.8 |
| 4/17/2015 14:58:27 | 40.35 | 36.15 | 613 | 2.14 | 0.27 | 33.5 |
| 4/17/2015 14:58:28 | 40.68 | 36.48 | 613 | 2.14 | 0.27 | 33.5 |
| 4/17/2015 14:58:28 | 41.01 | 36.81 | 616 | 2.14 | 0.27 | 33.7 |
| 4/17/2015 14:58:29 | 41.34 | 37.14 | 613 | 2.14 | 0.27 | 33.5 |
| 4/17/2015 14:58:29 | 41.67 | 37.47 | 613 | 2.14 | 0.27 | 33.5 |
| 4/17/2015 14:58:30 | 41.99 | 37.79 | 612 | 2.15 | 0.27 | 33.5 |
| 4/17/2015 14:58:30 | 42.32 | 38.12 | 616 | 2.16 | 0.26 | 33.7 |
| 4/17/2015 14:58:31 | 42.65 | 38.45 | 613 | 2.15 | 0.27 | 33.5 |
| 4/17/2015 14:58:32 | 42.98 | 38.78 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 14:58:32 | 43.31 | 39.11 | 616 | 2.15 | 0.26 | 33.7 |
| 4/17/2015 14:58:33 | 43.64 | 39.44 | 597 | 2.14 | 0.26 | 32.7 |
| 4/17/2015 14:58:33 | 43.96 | 39.76 | 597 | 2.14 | 0.26 | 32.7 |
| 4/17/2015 14:58:34 | 44.29 | 40.09 | 605 | 2.15 | 0.26 | 33.1 |
| 4/17/2015 14:58:35 | 44.62 | 40.42 | 605 | 2.15 | 0.26 | 33.1 |
| 4/17/2015 14:58:35 | 44.95 | 40.75 | 595 | 2.15 | 0.26 | 32.5 |
| 4/17/2015 14:58:36 | 45.28 | 41.08 | 596 | 2.15 | 0.26 | 32.6 |
| 4/17/2015 14:58:37 | 45.60 | 41.40 | 615 | 2.16 | 0.26 | 33.6 |
| 4/17/2015 14:58:37 | 45.93 | 41.73 | 608 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 14:58:38 | 46.26 | 42.06 | 608 | 2.15 | 0.26 | 33.2 |
| 4/17/2015 14:58:38 | 46.59 | 42.39 | 617 | 2.15 | 0.26 | 33.8 |
| 4/17/2015 14:58:39 | 46.92 | 42.72 | 613 | 2.16 | 0.26 | 33.5 |
| 4/17/2015 14:58:39 | 47.24 | 43.04 | 607 | 2.15 | 0.26 | 33.2 |
| 4/17/2015 14:58:40 | 47.57 | 43.37 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 14:58:41 | 47.90 | 43.70 | 610 | 2.15 | 0.26 | 33.3 |
| 4/17/2015 14:58:41 | 48.23 | 44.03 | 607 | 2.15 | 0.26 | 33.2 |
| 4/17/2015 14:58:42 | 48.56 | 44.36 | 606 | 2.16 | 0.26 | 33.2 |
| 4/17/2015 14:58:42 | 48.88 | 44.68 | 600 | 2.15 | 0.32 | 32.8 |
| 4/17/2015 14:58:43 | 49.21 | 45.01 | 600 | 2.17 | 0.26 | 32.8 |
| 4/17/2015 14:59:06 | 49.54 | 45.34 | 0 | 2.26 | 1.15 | 0.0 |
| 4/17/2015 14:59:09 | 49.87 | 45.67 | 81 | 2.30 | 1.15 | 4.4 |
| 4/17/2015 14:59:11 | 50.20 | 46.00 | 140 | 2.27 | 1.15 | 7.7 |
| 4/17/2015 14:59:12 | 50.53 | 46.33 | 221 | 2.29 | 1.08 | 12.1 |
| 4/17/2015 14:59:14 | 50.85 | 46.65 | 267 | 2.34 | 1.22 | 14.6 |
| 4/17/2015 14:59:18 | 51.18 | 46.98 | 147 | 2.36 | 1.18 | 8.0 |
| 4/17/2015 14:59:24 | 51.51 | 47.31 | 48 | 2.37 | 1.12 | 2.6 |
| 4/17/2015 14:59:29 | 51.84 | 47.64 | 82 | 2.35 | 1.28 | 4.5 |
| 4/17/2015 14:59:34 | 52.17 | 47.97 | 58 | 2.37 | 1.21 | 3.2 |
| 4/17/2015 14:59:42 | 52.49 | 48.29 | 46 | 2.40 | 1.28 | 2.5 |
| 4/17/2015 14:59:51 | 52.82 | 48.62 | 35 | 2.39 | 1.21 | 1.9 |
| 4/17/2015 15:00:02 | 53.15 | 48.95 | 29 | 2.40 | 1.25 | 1.6 |
| 4/17/2015 15:00:14 | 53.48 | 49.28 | 32 | 2.38 | 1.22 | 1.7 |
| 4/17/2015 15:00:20 | 53.62 | 49.42 | 32 | 2.35 | 1.25 | 1.7 |

## A1011 - Summary

**Pattern Number:**
AreaA_Additonal-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 14:51:25

**End Date:**
4/17/2015 15:01:11

**Operator Note:**
'4.2 4.6 c Auto Complete'

**Northing:**
371,486.23

**Easting:**
259,433.48

**Tide (feet):**
4.20



## Hole: A11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:14:43 | 30.84 | 30.04 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 6:14:44 | 31.17 | 30.37 | 572 | 2.16 | 0.14 | 31.3 |
| 4/17/2015 6:14:45 | 31.50 | 30.70 | 575 | 2.14 | 0.14 | 31.5 |
| 4/17/2015 6:14:45 | 31.82 | 31.02 | 572 | 2.15 | 0.14 | 31.3 |
| 4/17/2015 6:14:46 | 32.15 | 31.35 | 570 | 2.15 | 0.14 | 31.1 |
| 4/17/2015 6:14:46 | 32.48 | 31.68 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 6:14:47 | 32.81 | 32.01 | 572 | 2.15 | 0.14 | 31.3 |
| 4/17/2015 6:14:48 | 33.14 | 32.34 | 572 | 2.15 | 0.14 | 31.3 |
| 4/17/2015 6:14:49 | 33.46 | 32.66 | 572 | 2.21 | 0.14 | 31.3 |
| 4/17/2015 6:14:49 | 33.79 | 32.99 | 575 | 2.15 | 0.14 | 31.5 |
| 4/17/2015 6:14:50 | 34.12 | 33.32 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 6:14:50 | 34.45 | 33.65 | 572 | 2.15 | 0.14 | 31.3 |
| 4/17/2015 6:14:51 | 34.78 | 33.98 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 6:14:52 | 35.11 | 34.31 | 569 | 2.15 | 0.14 | 31.1 |
| 4/17/2015 6:14:52 | 35.43 | 34.63 | 569 | 2.17 | 0.14 | 31.1 |
| 4/17/2015 6:14:53 | 35.76 | 34.96 | 569 | 2.16 | 0.14 | 31.1 |
| 4/17/2015 6:14:53 | 36.09 | 35.29 | 572 | 2.16 | 0.14 | 31.3 |
| 4/17/2015 6:14:54 | 36.42 | 35.62 | 569 | 2.16 | 0.14 | 31.1 |
| 4/17/2015 6:14:55 | 36.75 | 35.95 | 569 | 2.17 | 0.14 | 31.1 |
| 4/17/2015 6:14:55 | 37.07 | 36.27 | 576 | 2.25 | 0.14 | 31.5 |
| 4/17/2015 6:15:34 | 37.40 | 36.60 | 49 | 2.29 | 1.17 | 2.7 |
| 4/17/2015 6:15:35 | 37.73 | 36.93 | 197 | 2.19 | 1.03 | 10.8 |
| 4/17/2015 6:15:36 | 38.06 | 37.26 | 312 | 2.20 | 1.02 | 17.1 |
| 4/17/2015 6:15:36 | 38.39 | 37.59 | 424 | 2.22 | 1.15 | 23.2 |
| 4/17/2015 6:15:37 | 38.71 | 37.91 | 509 | 2.24 | 1.16 | 27.9 |
| 4/17/2015 6:15:39 | 39.04 | 38.24 | 396 | 2.27 | 1.19 | 21.7 |
| 4/17/2015 6:15:43 | 39.37 | 38.57 | 20 | 2.21 | 1.16 | 1.1 |
| 4/17/2015 6:15:46 | 39.70 | 38.90 | 114 | 2.31 | 1.35 | 6.2 |
| 4/17/2015 6:15:59 | 40.03 | 39.23 | 46 | 2.38 | 1.23 | 2.5 |
| 4/17/2015 6:16:07 | 40.35 | 39.55 | 49 | 2.40 | 1.26 | 2.7 |
| 4/17/2015 6:16:16 | 40.68 | 39.88 | 46 | 2.42 | 1.31 | 2.5 |
| 4/17/2015 6:16:24 | 41.01 | 40.21 | 46 | 2.40 | 1.30 | 2.5 |
| 4/17/2015 6:16:31 | 41.32 | 40.52 | 46 | 2.38 | 1.32 | 2.5 |

## A11 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:13:19

**End Date:**
4/17/2015 6:18:29

**Operator Note:**
'0.8 0.9 c Auto Complete'

**Northing:**
371,556.17

**Easting:**
259,663.98

**Tide (feet):**
0.80



## Hole: A12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 16:30:52 | 31.82 | 30.32 | 1,142 | 1.74 | 0.33 | 62.4 |
| 4/16/2015 16:30:52 | 32.15 | 30.65 | 1,129 | 1.76 | 0.33 | 61.7 |
| 4/16/2015 16:30:52 | 32.48 | 30.98 | 1,129 | 1.76 | 0.33 | 61.7 |
| 4/16/2015 16:30:52 | 32.81 | 31.31 | 1,146 | 1.76 | 0.33 | 62.6 |
| 4/16/2015 16:30:53 | 33.14 | 31.64 | 1,156 | 1.74 | 0.34 | 63.2 |
| 4/16/2015 16:30:53 | 33.46 | 31.96 | 1,156 | 1.74 | 0.34 | 63.2 |
| 4/16/2015 16:30:53 | 33.79 | 32.29 | 1,149 | 1.76 | 0.32 | 62.8 |
| 4/16/2015 16:30:54 | 34.12 | 32.62 | 1,149 | 1.76 | 0.32 | 62.8 |
| 4/16/2015 16:30:54 | 34.45 | 32.95 | 1,149 | 1.76 | 0.33 | 62.8 |
| 4/16/2015 16:30:54 | 34.78 | 33.28 | 1,165 | 1.74 | 0.33 | 63.7 |
| 4/16/2015 16:30:55 | 35.11 | 33.61 | 1,165 | 1.74 | 0.33 | 63.7 |
| 4/16/2015 16:30:55 | 35.43 | 33.93 | 1,148 | 1.99 | 0.32 | 62.8 |
| 4/16/2015 16:30:55 | 35.76 | 34.26 | 1,148 | 1.99 | 0.32 | 62.8 |
| 4/16/2015 16:30:55 | 36.09 | 34.59 | 1,145 | 1.75 | 0.33 | 62.6 |
| 4/16/2015 16:30:56 | 36.42 | 34.92 | 1,145 | 1.75 | 0.33 | 62.6 |
| 4/16/2015 16:30:56 | 36.75 | 35.25 | 1,145 | 1.75 | 0.33 | 62.6 |
| 4/16/2015 16:30:56 | 37.07 | 35.57 | 1,148 | 1.79 | 0.35 | 62.8 |
| 4/16/2015 16:31:29 | 37.40 | 35.90 | 0 | 3.69 | 0.43 | 0.0 |
| 4/16/2015 16:31:40 | 37.73 | 36.23 | 29 | 4.64 | 0.49 | 1.6 |
| 4/16/2015 16:31:54 | 38.06 | 36.56 | 23 | 4.02 | 0.43 | 1.2 |
| 4/16/2015 16:32:00 | 38.39 | 36.89 | 64 | 3.61 | 0.46 | 3.5 |
| 4/16/2015 16:32:06 | 38.71 | 37.21 | 55 | 4.07 | 0.43 | 3.0 |
| 4/16/2015 16:32:20 | 38.84 | 37.34 | 15 | 4.37 | 0.51 | 0.8 |

## A12 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 16:28:58

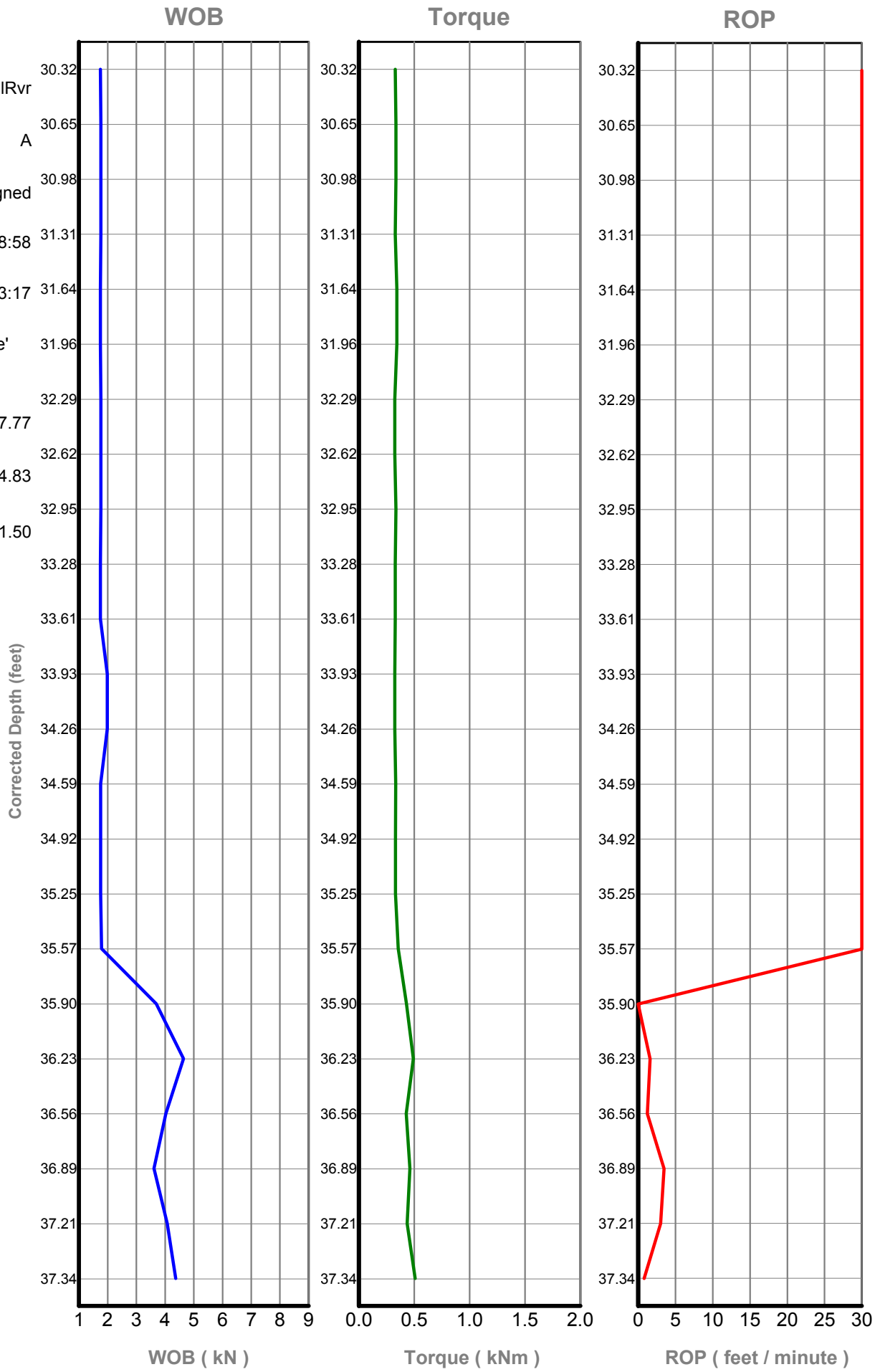
**End Date:**
4/16/2015 16:33:17

**Operator Note:**
'1.5 2.0 a Auto Complete'

**Northing:**
371,547.77

**Easting:**
259,734.83

**Tide (feet):**
1.50



## Hole: A13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 16:29:11 | 31.82 | 30.32 | 940 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 16:29:11 | 32.15 | 30.65 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 16:29:12 | 32.48 | 30.98 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 16:29:12 | 32.81 | 31.31 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 16:29:12 | 33.14 | 31.64 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 16:29:13 | 33.46 | 31.96 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 16:29:13 | 33.79 | 32.29 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 16:29:14 | 34.12 | 32.62 | 913 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 16:29:14 | 34.45 | 32.95 | 913 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 16:29:14 | 34.78 | 33.28 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 16:29:15 | 35.11 | 33.61 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 16:29:15 | 35.43 | 33.93 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 16:29:16 | 35.76 | 34.26 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 16:29:16 | 36.09 | 34.59 | 886 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 16:29:17 | 36.42 | 34.92 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 16:29:17 | 36.75 | 35.25 | 899 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 16:29:18 | 37.07 | 35.57 | 899 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 16:29:18 | 37.40 | 35.90 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 16:29:18 | 37.73 | 36.23 | 883 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 16:29:19 | 38.06 | 36.56 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 16:29:19 | 38.39 | 36.89 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 16:29:20 | 38.71 | 37.21 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 16:29:20 | 39.04 | 37.54 | 882 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 16:29:20 | 39.37 | 37.87 | 882 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 16:29:21 | 39.70 | 38.20 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 16:29:21 | 40.03 | 38.53 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 16:29:21 | 40.35 | 38.85 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 16:29:22 | 40.68 | 39.18 | 906 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 16:29:22 | 41.01 | 39.51 | 882 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 16:29:23 | 41.34 | 39.84 | 882 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 16:29:23 | 41.67 | 40.17 | 882 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 16:29:23 | 41.99 | 40.49 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 16:29:24 | 42.32 | 40.82 | 868 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 16:29:24 | 42.65 | 41.15 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 16:29:25 | 42.98 | 41.48 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 16:29:25 | 43.31 | 41.81 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 16:30:07 | 43.64 | 42.14 | 18 | 0.29 | 0.42 | 1.0 |
| 4/16/2015 16:30:07 | 43.96 | 42.46 | 97 | 0.29 | 0.42 | 5.3 |
| 4/16/2015 16:30:25 | 44.29 | 42.79 | 20 | 0.29 | 0.42 | 1.1 |
| 4/16/2015 16:30:30 | 44.62 | 43.12 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 16:30:36 | 44.95 | 43.45 | 49 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 16:30:45 | 45.28 | 43.78 | 41 | 0.29 | 0.42 | 2.2 |
| 4/16/2015 16:30:53 | 45.60 | 44.10 | 44 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 16:31:01 | 45.93 | 44.43 | 41 | 0.29 | 0.42 | 2.3 |
| 4/16/2015 16:31:03 | 46.02 | 44.52 | 46 | 0.29 | 0.42 | 2.5 |

## A13 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 16:27:02

**End Date:**
4/16/2015 16:35:53

**Operator Note:**
'1.5 2 b Hit bedrock @45"

**Northing:**
371,543.74

**Easting:**
259,809.72

**Tide (feet):**
1.50



## Hole: A14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 16:29:55 | 31.82 | 30.32 | 1,012 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 16:29:55 | 32.15 | 30.65 | 1,007 | 2.63 | 0.13 | 55.0 |
| 4/16/2015 16:29:55 | 32.48 | 30.98 | 1,019 | 2.62 | 0.13 | 55.7 |
| 4/16/2015 16:29:56 | 32.81 | 31.31 | 1,019 | 2.62 | 0.13 | 55.7 |
| 4/16/2015 16:29:56 | 33.14 | 31.64 | 1,006 | 2.62 | 0.13 | 55.0 |
| 4/16/2015 16:29:56 | 33.46 | 31.96 | 1,012 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 16:29:57 | 33.79 | 32.29 | 1,012 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 16:29:57 | 34.12 | 32.62 | 1,003 | 2.62 | 0.13 | 54.9 |
| 4/16/2015 16:29:57 | 34.45 | 32.95 | 1,012 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 16:29:58 | 34.78 | 33.28 | 1,012 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 16:29:58 | 35.11 | 33.61 | 1,003 | 2.54 | 0.13 | 54.9 |
| 4/16/2015 16:29:58 | 35.43 | 33.93 | 1,006 | 2.63 | 0.13 | 55.0 |
| 4/16/2015 16:29:59 | 35.76 | 34.26 | 1,006 | 2.63 | 0.13 | 55.0 |
| 4/16/2015 16:29:59 | 36.09 | 34.59 | 1,000 | 2.61 | 0.13 | 54.7 |
| 4/16/2015 16:30:00 | 36.42 | 34.92 | 1,003 | 2.62 | 0.13 | 54.8 |
| 4/16/2015 16:30:00 | 36.75 | 35.25 | 994 | 2.60 | 0.13 | 54.4 |
| 4/16/2015 16:30:01 | 37.07 | 35.57 | 994 | 2.60 | 0.13 | 54.4 |
| 4/16/2015 16:30:01 | 37.40 | 35.90 | 1,003 | 2.61 | 0.13 | 54.8 |
| 4/16/2015 16:30:01 | 37.73 | 36.23 | 1,000 | 2.61 | 0.13 | 54.7 |
| 4/16/2015 16:30:02 | 38.06 | 36.56 | 1,000 | 2.61 | 0.13 | 54.7 |
| 4/16/2015 16:30:02 | 38.39 | 36.89 | 994 | 2.63 | 0.13 | 54.4 |
| 4/16/2015 16:30:02 | 38.71 | 37.21 | 997 | 2.60 | 0.13 | 54.5 |
| 4/16/2015 16:30:03 | 39.04 | 37.54 | 997 | 2.60 | 0.13 | 54.5 |
| 4/16/2015 16:30:03 | 39.37 | 37.87 | 989 | 2.59 | 0.13 | 54.1 |
| 4/16/2015 16:30:03 | 39.70 | 38.20 | 989 | 2.63 | 0.13 | 54.1 |
| 4/16/2015 16:30:04 | 40.03 | 38.53 | 989 | 2.63 | 0.13 | 54.1 |
| 4/16/2015 16:30:04 | 40.35 | 38.85 | 989 | 2.63 | 0.13 | 54.1 |
| 4/16/2015 16:30:04 | 40.68 | 39.18 | 989 | 2.60 | 0.13 | 54.1 |
| 4/16/2015 16:30:05 | 41.01 | 39.51 | 989 | 2.60 | 0.13 | 54.1 |
| 4/16/2015 16:30:05 | 41.34 | 39.84 | 1,001 | 2.61 | 0.13 | 54.8 |
| 4/16/2015 16:30:05 | 41.67 | 40.17 | 995 | 2.74 | 0.14 | 54.4 |
| 4/16/2015 16:30:31 | 41.99 | 40.49 | 3 | 2.80 | 1.37 | 0.2 |
| 4/16/2015 16:30:31 | 42.32 | 40.82 | 57 | 2.74 | 1.13 | 3.1 |
| 4/16/2015 16:30:35 | 42.65 | 41.15 | 85 | 2.90 | 1.20 | 4.7 |
| 4/16/2015 16:30:42 | 42.98 | 41.48 | 52 | 2.90 | 1.37 | 2.8 |
| 4/16/2015 16:30:48 | 43.31 | 41.81 | 40 | 2.93 | 1.46 | 2.2 |
| 4/16/2015 16:30:57 | 43.64 | 42.14 | 35 | 2.95 | 1.51 | 1.9 |
| 4/16/2015 16:32:30 | 43.96 | 42.46 | 49 | 2.92 | 1.26 | 2.7 |
| 4/16/2015 16:32:35 | 44.29 | 42.79 | 72 | 2.89 | 1.28 | 3.9 |
| 4/16/2015 16:32:41 | 44.62 | 43.12 | 55 | 2.90 | 1.29 | 3.0 |
| 4/16/2015 16:32:47 | 44.95 | 43.45 | 44 | 2.93 | 1.29 | 2.4 |
| 4/16/2015 16:33:01 | 45.28 | 43.78 | 61 | 2.87 | 1.49 | 3.3 |
| 4/16/2015 16:33:19 | 45.60 | 44.10 | 52 | 2.48 | 1.26 | 2.8 |
| 4/16/2015 16:33:25 | 45.93 | 44.43 | 52 | 2.50 | 1.28 | 2.8 |
| 4/16/2015 16:33:30 | 46.26 | 44.76 | 87 | 2.48 | 1.32 | 4.8 |
| 4/16/2015 16:33:32 | 46.50 | 45.00 | 100 | 2.52 | 1.19 | 5.5 |

## A14 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 16:28:32

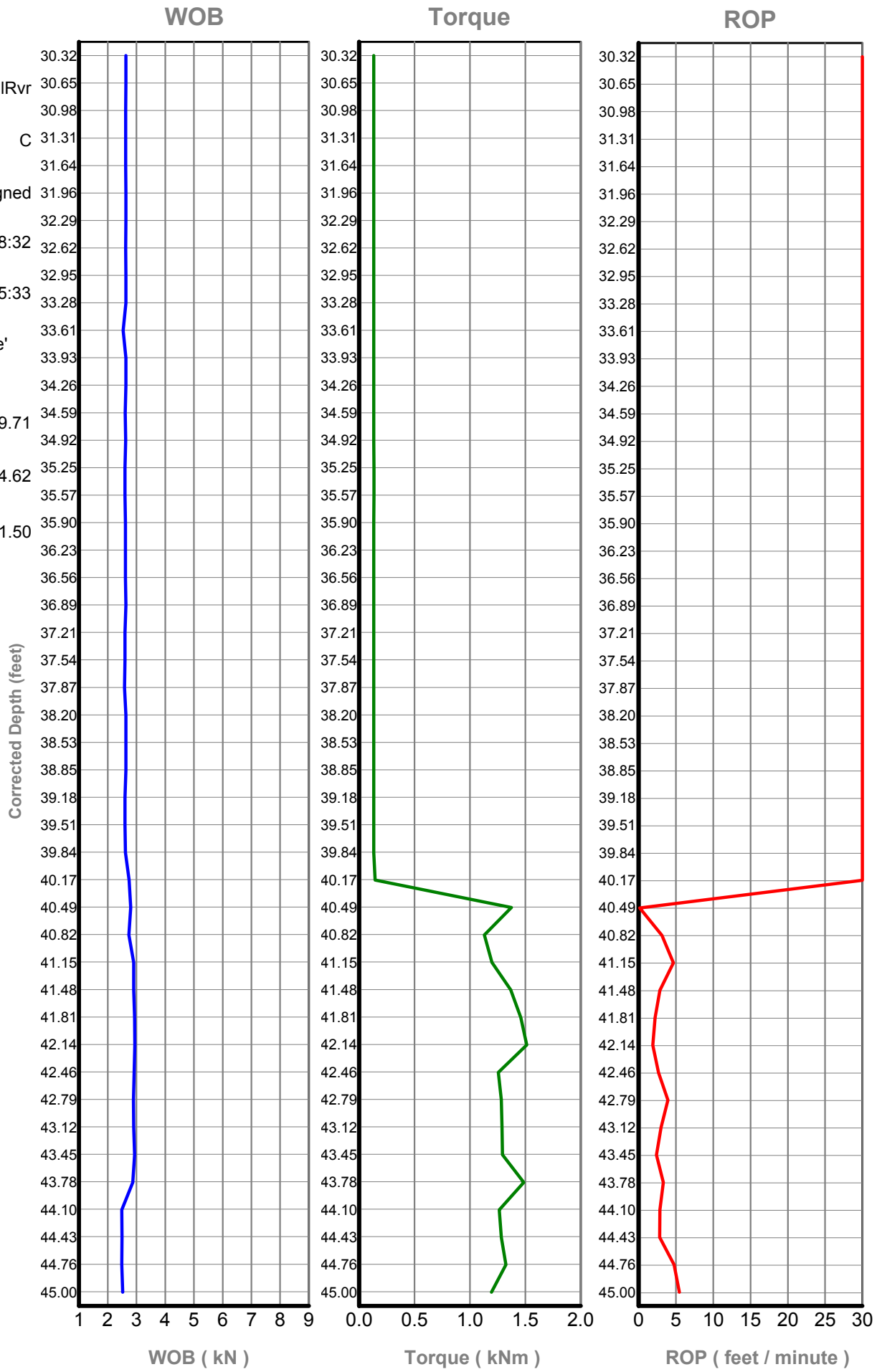
**End Date:**
4/16/2015 16:35:33

**Operator Note:**
'1.5 2.0 c Auto Complete'

**Northing:**
371,539.71

**Easting:**
259,884.62

**Tide (feet):**
1.50



## Hole: A15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 14:50:39 | 33.14 | 30.04 | 1,151 | 1.89 | 0.34 | 62.9 |
| 4/15/2015 14:50:40 | 33.46 | 30.36 | 1,145 | 1.90 | 0.34 | 62.6 |
| 4/15/2015 14:50:40 | 33.79 | 30.69 | 1,145 | 1.90 | 0.34 | 62.6 |
| 4/15/2015 14:50:40 | 34.12 | 31.02 | 1,150 | 1.89 | 0.33 | 62.9 |
| 4/15/2015 14:50:41 | 34.45 | 31.35 | 1,150 | 1.89 | 0.33 | 62.9 |
| 4/15/2015 14:50:41 | 34.78 | 31.68 | 1,146 | 1.90 | 0.33 | 62.7 |
| 4/15/2015 14:50:41 | 35.11 | 32.01 | 1,156 | 1.89 | 0.34 | 63.2 |
| 4/15/2015 14:50:42 | 35.43 | 32.33 | 1,156 | 1.89 | 0.34 | 63.2 |
| 4/15/2015 14:50:42 | 35.76 | 32.66 | 1,135 | 1.89 | 0.34 | 62.1 |
| 4/15/2015 14:50:42 | 36.09 | 32.99 | 1,135 | 1.89 | 0.34 | 62.1 |
| 4/15/2015 14:50:42 | 36.42 | 33.32 | 1,135 | 1.91 | 0.33 | 62.1 |
| 4/15/2015 14:50:43 | 36.75 | 33.65 | 1,140 | 1.89 | 0.33 | 62.3 |
| 4/15/2015 14:50:44 | 37.07 | 33.97 | 1,140 | 1.89 | 0.33 | 62.3 |
| 4/15/2015 14:50:43 | 37.40 | 34.30 | 1,124 | 1.90 | 0.33 | 61.5 |
| 4/15/2015 14:50:44 | 37.73 | 34.63 | 1,124 | 1.90 | 0.33 | 61.5 |
| 4/15/2015 14:50:44 | 38.06 | 34.96 | 1,124 | 1.89 | 0.34 | 61.5 |
| 4/15/2015 14:50:44 | 38.39 | 35.29 | 1,124 | 1.89 | 0.34 | 61.5 |
| 4/15/2015 14:50:45 | 38.71 | 35.61 | 1,142 | 1.89 | 0.38 | 62.5 |
| 4/15/2015 14:50:45 | 39.04 | 35.94 | 1,114 | 1.89 | 0.34 | 60.9 |
| 4/15/2015 14:50:45 | 39.37 | 36.27 | 1,114 | 1.89 | 0.34 | 60.9 |
| 4/15/2015 14:50:46 | 39.70 | 36.60 | 1,114 | 1.88 | 0.33 | 60.9 |
| 4/15/2015 14:50:46 | 40.03 | 36.93 | 1,114 | 1.88 | 0.33 | 60.9 |
| 4/15/2015 14:50:46 | 40.35 | 37.25 | 1,145 | 1.90 | 0.33 | 62.6 |
| 4/15/2015 14:50:47 | 40.68 | 37.58 | 1,137 | 1.90 | 0.33 | 62.1 |
| 4/15/2015 14:50:47 | 41.01 | 37.91 | 1,137 | 1.90 | 0.33 | 62.1 |
| 4/15/2015 14:50:47 | 41.34 | 38.24 | 1,137 | 1.89 | 0.33 | 62.2 |
| 4/15/2015 14:50:48 | 41.67 | 38.57 | 1,137 | 1.89 | 0.33 | 62.2 |
| 4/15/2015 14:50:48 | 41.99 | 38.89 | 1,115 | 1.90 | 0.33 | 61.0 |
| 4/15/2015 14:50:48 | 42.32 | 39.22 | 1,115 | 1.89 | 0.33 | 61.0 |
| 4/15/2015 14:50:49 | 42.65 | 39.55 | 1,115 | 1.89 | 0.33 | 61.0 |
| 4/15/2015 14:50:49 | 42.98 | 39.88 | 1,149 | 1.89 | 0.34 | 62.8 |
| 4/15/2015 14:50:49 | 43.31 | 40.21 | 1,149 | 1.89 | 0.34 | 62.8 |
| 4/15/2015 14:50:49 | 43.64 | 40.54 | 1,144 | 1.89 | 0.33 | 62.5 |
| 4/15/2015 14:50:50 | 43.96 | 40.86 | 1,150 | 1.82 | 0.34 | 62.9 |
| 4/15/2015 14:50:50 | 44.29 | 41.19 | 1,150 | 1.82 | 0.34 | 62.9 |
| 4/15/2015 14:50:50 | 44.62 | 41.52 | 1,165 | 1.89 | 0.34 | 63.7 |
| 4/15/2015 14:50:51 | 44.95 | 41.85 | 1,165 | 1.89 | 0.34 | 63.7 |
| 4/15/2015 14:50:51 | 45.28 | 42.18 | 1,173 | 1.88 | 0.34 | 64.1 |
| 4/15/2015 14:50:51 | 45.60 | 42.50 | 1,139 | 1.89 | 0.33 | 62.3 |
| 4/15/2015 14:50:52 | 45.93 | 42.83 | 1,139 | 1.89 | 0.33 | 62.3 |
| 4/15/2015 14:50:52 | 46.26 | 43.16 | 1,132 | 2.18 | 0.35 | 61.9 |
| 4/15/2015 14:50:56 | 46.59 | 43.49 | 14 | 2.54 | 0.17 | 0.8 |
| 4/15/2015 14:51:24 | 46.92 | 43.82 | 0 | 3.55 | 0.35 | 0.0 |
| 4/15/2015 14:51:29 | 47.24 | 44.14 | 37 | 3.94 | 0.44 | 2.0 |
| 4/15/2015 14:51:49 | 47.57 | 44.47 | 15 | 5.06 | 0.45 | 0.8 |
| 4/15/2015 14:52:00 | 47.90 | 44.80 | 35 | 5.14 | 0.43 | 1.9 |
| 4/15/2015 14:52:12 | 48.23 | 45.13 | 29 | 4.72 | 0.41 | 1.6 |
| 4/15/2015 14:52:31 | 48.56 | 45.46 | 0 | 3.34 | 0.42 | 0.0 |
| 4/15/2015 14:52:31 | 48.56 | 45.46 | 0 | 3.34 | 0.42 | 0.0 |

## A15 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 14:48:55

**End Date:**
4/15/2015 14:52:57

**Operator Note:**
'3.1 3.5 a Auto Complete'

**Northing:**
371,534.69

**Easting:**
259,960.58

**Tide (feet):**
3.10



## Hole: A16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:49:21 | 33.14 | 30.04 | 955 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 14:49:22 | 33.46 | 30.36 | 955 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 14:49:22 | 33.79 | 30.69 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 14:49:22 | 34.12 | 31.02 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 14:49:23 | 34.45 | 31.35 | 945 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 14:49:23 | 34.78 | 31.68 | 945 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 14:49:23 | 35.11 | 32.01 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 14:49:24 | 35.43 | 32.33 | 942 | 0.29 | 0.42 | 51.5 |
| 4/16/2015 14:49:24 | 35.76 | 32.66 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:49:25 | 36.09 | 32.99 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:49:25 | 36.42 | 33.32 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:49:25 | 36.75 | 33.65 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 14:49:26 | 37.07 | 33.97 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 14:49:26 | 37.40 | 34.30 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 14:49:26 | 37.73 | 34.63 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 14:49:27 | 38.06 | 34.96 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:49:27 | 38.39 | 35.29 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:49:28 | 38.71 | 35.61 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:49:28 | 39.04 | 35.94 | 916 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:28 | 39.37 | 36.27 | 930 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 14:49:29 | 39.70 | 36.60 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:29 | 40.03 | 36.93 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:29 | 40.35 | 37.25 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:30 | 40.68 | 37.58 | 915 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 14:49:31 | 41.01 | 37.91 | 915 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:31 | 41.34 | 38.24 | 915 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:49:31 | 41.67 | 38.57 | 906 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 14:49:32 | 41.99 | 38.89 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 14:49:32 | 42.32 | 39.22 | 900 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 14:49:52 | 42.65 | 39.55 | 85 | 0.29 | 0.42 | 4.7 |
| 4/16/2015 14:49:57 | 42.98 | 39.88 | 84 | 0.29 | 0.42 | 4.6 |
| 4/16/2015 14:50:01 | 43.31 | 40.21 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 14:50:07 | 43.64 | 40.54 | 65 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 14:50:12 | 43.96 | 40.86 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 14:50:18 | 44.29 | 41.19 | 71 | 0.29 | 0.42 | 3.9 |
| 4/16/2015 14:50:22 | 44.62 | 41.52 | 75 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 14:50:27 | 44.95 | 41.85 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 14:50:33 | 45.28 | 42.18 | 72 | 0.29 | 0.42 | 3.9 |
| 4/16/2015 14:50:38 | 45.60 | 42.50 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 14:50:44 | 45.93 | 42.83 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 14:50:50 | 46.26 | 43.16 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 14:50:55 | 46.59 | 43.49 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 14:51:00 | 46.92 | 43.82 | 61 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 14:51:06 | 47.24 | 44.14 | 58 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 14:51:12 | 47.57 | 44.47 | 55 | 0.29 | 0.42 | 3.0 |
| 4/16/2015 14:51:18 | 47.90 | 44.80 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 14:51:24 | 48.23 | 45.13 | 58 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 14:51:29 | 48.56 | 45.46 | 70 | 0.29 | 0.42 | 3.8 |

## A16 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:46:35

**End Date:**
4/16/2015 15:05:11

**Operator Note:**
'3.1 3.5 b Hit bed rock'

**Northing:**
371,532.83

**Easting:**
260,035.54

**Tide (feet):**
3.10



## Hole: A17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:41:53 | 31.17 | 30.07 | 1,150 | 0.54 | 0.35 | 62.9 |
| 4/17/2015 5:41:53 | 31.50 | 30.40 | 1,143 | 0.54 | 0.35 | 62.5 |
| 4/17/2015 5:41:54 | 31.82 | 30.72 | 1,143 | 0.54 | 0.35 | 62.5 |
| 4/17/2015 5:41:54 | 32.15 | 31.05 | 1,143 | 0.54 | 0.35 | 62.5 |
| 4/17/2015 5:41:54 | 32.48 | 31.38 | 1,143 | 0.54 | 0.35 | 62.5 |
| 4/17/2015 5:41:54 | 32.81 | 31.71 | 1,142 | 0.54 | 0.34 | 62.4 |
| 4/17/2015 5:41:55 | 33.14 | 32.04 | 1,176 | 0.54 | 0.35 | 64.3 |
| 4/17/2015 5:41:55 | 33.46 | 32.36 | 1,176 | 0.54 | 0.35 | 64.3 |
| 4/17/2015 5:41:55 | 33.79 | 32.69 | 1,128 | 0.54 | 0.35 | 61.7 |
| 4/17/2015 5:41:56 | 34.12 | 33.02 | 1,128 | 0.54 | 0.35 | 61.7 |
| 4/17/2015 5:41:56 | 34.45 | 33.35 | 1,121 | 0.54 | 0.35 | 61.3 |
| 4/17/2015 5:41:56 | 34.78 | 33.68 | 1,121 | 0.54 | 0.34 | 61.3 |
| 4/17/2015 5:41:57 | 35.11 | 34.01 | 1,121 | 0.54 | 0.34 | 61.3 |
| 4/17/2015 5:41:57 | 35.43 | 34.33 | 1,171 | 0.54 | 0.35 | 64.1 |
| 4/17/2015 5:41:58 | 35.76 | 34.66 | 1,171 | 0.54 | 0.35 | 64.1 |
| 4/17/2015 5:41:58 | 36.09 | 34.99 | 1,129 | 0.54 | 0.34 | 61.7 |
| 4/17/2015 5:41:58 | 36.42 | 35.32 | 1,129 | 0.54 | 0.34 | 61.7 |
| 4/17/2015 5:41:58 | 36.75 | 35.65 | 1,138 | 0.54 | 0.35 | 62.2 |
| 4/17/2015 5:41:59 | 37.07 | 35.97 | 1,138 | 0.54 | 0.34 | 62.2 |
| 4/17/2015 5:41:59 | 37.40 | 36.30 | 1,138 | 0.54 | 0.34 | 62.2 |
| 4/17/2015 5:41:59 | 37.73 | 36.63 | 1,173 | 0.54 | 0.34 | 64.2 |
| 4/17/2015 5:42:00 | 38.06 | 36.96 | 1,173 | 0.54 | 0.34 | 64.2 |
| 4/17/2015 5:42:00 | 38.39 | 37.29 | 1,183 | 0.54 | 0.35 | 64.7 |
| 4/17/2015 5:42:00 | 38.71 | 37.61 | 1,165 | 0.56 | 0.34 | 63.7 |
| 4/17/2015 5:42:01 | 39.04 | 37.94 | 1,165 | 0.56 | 0.34 | 63.7 |
| 4/17/2015 5:42:01 | 39.37 | 38.27 | 1,192 | 0.54 | 0.34 | 65.2 |
| 4/17/2015 5:42:01 | 39.70 | 38.60 | 1,192 | 0.54 | 0.34 | 65.2 |
| 4/17/2015 5:42:01 | 40.03 | 38.93 | 1,193 | 0.54 | 0.35 | 65.2 |
| 4/17/2015 5:42:02 | 40.35 | 39.25 | 1,193 | 0.54 | 0.35 | 65.2 |
| 4/17/2015 5:42:02 | 40.68 | 39.58 | 1,176 | 0.54 | 0.34 | 64.3 |
| 4/17/2015 5:42:02 | 41.01 | 39.91 | 1,157 | 0.54 | 0.36 | 63.2 |
| 4/17/2015 5:42:03 | 41.34 | 40.24 | 1,157 | 0.54 | 0.36 | 63.2 |
| 4/17/2015 5:42:03 | 41.67 | 40.57 | 1,157 | 0.54 | 0.35 | 63.2 |
| 4/17/2015 5:42:03 | 41.99 | 40.89 | 1,157 | 0.54 | 0.35 | 63.2 |
| 4/17/2015 5:42:03 | 42.32 | 41.22 | 1,167 | 0.54 | 0.35 | 63.8 |
| 4/17/2015 5:42:04 | 42.65 | 41.55 | 1,138 | 0.54 | 0.34 | 62.2 |
| 4/17/2015 5:42:04 | 42.98 | 41.88 | 1,138 | 0.54 | 0.34 | 62.2 |
| 4/17/2015 5:42:04 | 43.31 | 42.21 | 1,148 | 0.54 | 0.35 | 62.8 |
| 4/17/2015 5:42:05 | 43.64 | 42.54 | 1,148 | 0.54 | 0.35 | 62.8 |
| 4/17/2015 5:42:05 | 43.96 | 42.86 | 1,163 | 0.54 | 0.34 | 63.6 |
| 4/17/2015 5:42:05 | 44.29 | 43.19 | 1,163 | 0.54 | 0.34 | 63.6 |
| 4/17/2015 5:42:05 | 44.62 | 43.52 | 1,190 | 0.54 | 0.35 | 65.1 |
| 4/17/2015 5:42:06 | 44.95 | 43.85 | 1,147 | 0.54 | 0.35 | 62.7 |
| 4/17/2015 5:42:06 | 45.28 | 44.18 | 1,147 | 0.54 | 0.35 | 62.7 |
| 4/17/2015 5:42:06 | 45.60 | 44.50 | 1,182 | 0.54 | 0.35 | 64.6 |
| 4/17/2015 5:42:07 | 45.93 | 44.83 | 1,182 | 0.54 | 0.35 | 64.6 |
| 4/17/2015 5:42:07 | 46.26 | 45.16 | 1,182 | 0.56 | 0.36 | 64.6 |
| 4/17/2015 5:42:27 | 46.59 | 45.49 | 0 | 4.15 | 0.49 | 0.0 |
| 4/17/2015 5:42:28 | 46.92 | 45.82 | 142 | 3.94 | 0.50 | 7.8 |
| 4/17/2015 5:42:31 | 47.24 | 46.14 | 197 | 4.07 | 0.50 | 10.7 |
| 4/17/2015 5:42:33 | 47.57 | 46.47 | 170 | 3.98 | 0.50 | 9.3 |
| 4/17/2015 5:42:36 | 47.90 | 46.80 | 116 | 3.96 | 0.52 | 6.4 |
| 4/17/2015 5:42:40 | 48.23 | 47.13 | 104 | 4.01 | 0.52 | 5.7 |
| 4/17/2015 5:42:44 | 48.56 | 47.46 | 90 | 3.94 | 0.52 | 4.9 |
| 4/17/2015 5:42:47 | 48.88 | 47.78 | 90 | 3.87 | 0.53 | 4.9 |
| 4/17/2015 5:42:52 | 49.21 | 48.11 | 85 | 3.90 | 0.53 | 4.6 |
| 4/17/2015 5:42:56 | 49.54 | 48.44 | 81 | 3.79 | 0.52 | 4.4 |
| 4/17/2015 5:43:01 | 49.87 | 48.77 | 76 | 3.67 | 0.51 | 4.2 |
| 4/17/2015 5:43:05 | 50.20 | 49.10 | 74 | 3.76 | 0.52 | 4.1 |
| 4/17/2015 5:43:10 | 50.53 | 49.43 | 80 | 3.75 | 0.51 | 4.4 |
| 4/17/2015 5:43:15 | 50.85 | 49.75 | 68 | 3.72 | 0.59 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:43:19 | 51.18 | 50.08 | 72 | 3.66 | 0.52 | 3.9 |
| 4/17/2015 | 5:43:24 | 51.51 | 50.41 | 69 | 3.78 | 0.52 | 3.8 |
| 4/17/2015 | 5:43:28 | 51.84 | 50.74 | 91 | 3.69 | 0.51 | 5.0 |
| 4/17/2015 | 5:43:33 | 52.17 | 51.07 | 81 | 3.64 | 0.51 | 4.4 |
| 4/17/2015 | 5:43:38 | 52.49 | 51.39 | 70 | 3.63 | 0.51 | 3.8 |
| 4/17/2015 | 5:43:44 | 52.82 | 51.72 | 61 | 3.73 | 0.50 | 3.3 |
| 4/17/2015 | 5:43:49 | 53.15 | 52.05 | 57 | 3.71 | 0.50 | 3.1 |
| 4/17/2015 | 5:43:55 | 53.48 | 52.38 | 63 | 3.71 | 0.52 | 3.5 |
| 4/17/2015 | 5:44:01 | 53.81 | 52.71 | 55 | 3.74 | 0.52 | 3.0 |
| 4/17/2015 | 5:44:08 | 54.13 | 53.03 | 50 | 3.79 | 0.51 | 2.7 |
| 4/17/2015 | 5:44:17 | 54.46 | 53.36 | 37 | 4.10 | 0.52 | 2.0 |
| 4/17/2015 | 5:44:28 | 54.79 | 53.69 | 29 | 4.11 | 0.51 | 1.6 |
| 4/17/2015 | 5:44:40 | 55.12 | 54.02 | 27 | 4.21 | 0.50 | 1.5 |
| 4/17/2015 | 5:44:52 | 55.45 | 54.35 | 34 | 4.16 | 0.50 | 1.9 |
| 4/17/2015 | 5:45:08 | 55.77 | 54.67 | 17 | 4.17 | 0.51 | 0.9 |
| 4/17/2015 | 5:45:27 | 56.10 | 55.00 | 20 | 3.96 | 0.49 | 1.1 |
| 4/17/2015 | 5:45:47 | 56.40 | 55.30 | 18 | 4.09 | 0.51 | 1.0 |

## A17 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:39:00

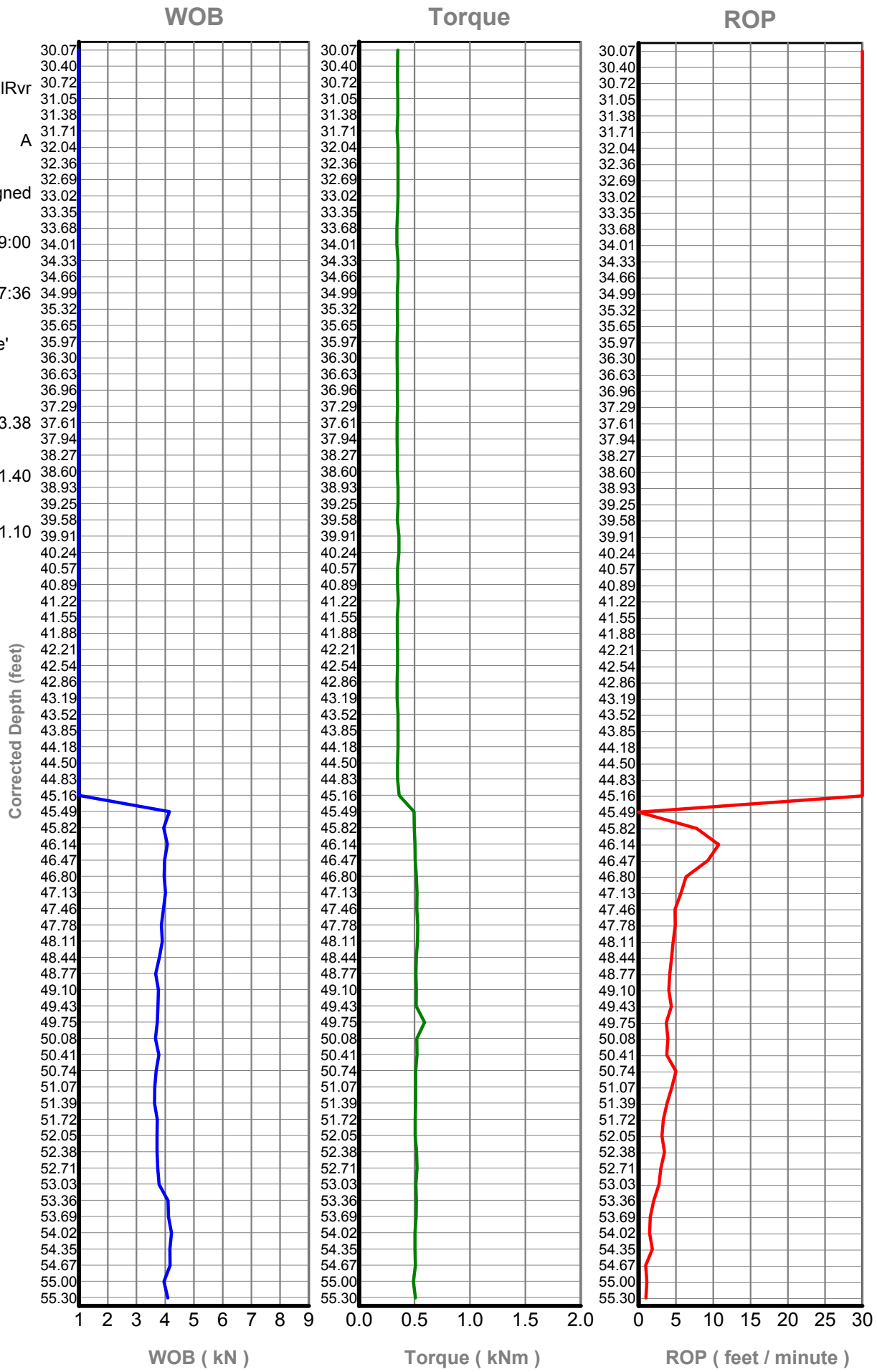
**End Date:**
4/17/2015 5:47:36

**Operator Note:**
'1.1 1.4 a Auto Complete'

**Northing:**
371,483.38

**Easting:**
259,511.40

**Tide (feet):**
1.10



## Hole: A18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:41:22 | 31.17 | 30.07 | 1,083 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:22 | 31.50 | 30.40 | 1,083 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:22 | 31.82 | 30.72 | 1,087 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 5:41:23 | 32.15 | 31.05 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:23 | 32.48 | 31.38 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:23 | 32.81 | 31.71 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:24 | 33.14 | 32.04 | 1,075 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 5:41:24 | 33.46 | 32.36 | 1,075 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 5:41:24 | 33.79 | 32.69 | 1,085 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 5:41:25 | 34.12 | 33.02 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:25 | 34.45 | 33.35 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:25 | 34.78 | 33.68 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:26 | 35.11 | 34.01 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:27 | 35.43 | 34.33 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:27 | 35.76 | 34.66 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:27 | 36.09 | 34.99 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:27 | 36.42 | 35.32 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 5:41:28 | 36.75 | 35.65 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 5:41:28 | 37.07 | 35.97 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 5:41:28 | 37.40 | 36.30 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 5:41:29 | 37.73 | 36.63 | 1,069 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:29 | 38.06 | 36.96 | 1,069 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:29 | 38.39 | 37.29 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:30 | 38.71 | 37.61 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:30 | 39.04 | 37.94 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:30 | 39.37 | 38.27 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:31 | 39.70 | 38.60 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:31 | 40.03 | 38.93 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:31 | 40.35 | 39.25 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:32 | 40.68 | 39.58 | 1,079 | 0.29 | 0.42 | 59.0 |
| 4/17/2015 5:41:32 | 41.01 | 39.91 | 1,082 | 0.29 | 0.42 | 59.2 |
| 4/17/2015 5:41:32 | 41.34 | 40.24 | 1,085 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 5:41:33 | 41.67 | 40.57 | 1,085 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 5:41:33 | 41.99 | 40.89 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 5:41:33 | 42.32 | 41.22 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:34 | 42.65 | 41.55 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:34 | 42.98 | 41.88 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:34 | 43.31 | 42.21 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:35 | 43.64 | 42.54 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:35 | 43.96 | 42.86 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:35 | 44.29 | 43.19 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:35 | 44.62 | 43.52 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:41:36 | 44.95 | 43.85 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:36 | 45.28 | 44.18 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:36 | 45.60 | 44.50 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:37 | 45.93 | 44.83 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:37 | 46.26 | 45.16 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:38 | 46.59 | 45.49 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:38 | 46.92 | 45.82 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:39 | 47.24 | 46.14 | 1,073 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 5:41:39 | 47.57 | 46.47 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 5:41:39 | 47.90 | 46.80 | 1,071 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:40 | 48.23 | 47.13 | 1,071 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:41:40 | 48.56 | 47.46 | 1,067 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 5:41:40 | 48.88 | 47.78 | 1,068 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 5:42:08 | 49.21 | 48.11 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 5:42:09 | 49.54 | 48.44 | 148 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 5:42:14 | 49.87 | 48.77 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 5:42:18 | 50.20 | 49.10 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 5:42:23 | 50.53 | 49.43 | 77 | 0.29 | 0.42 | 4.2 |
| 4/17/2015 5:42:29 | 50.85 | 49.75 | 58 | 0.29 | 0.42 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:42:35 | 51.18 | 50.08 | 53 | 0.29 | 0.42 | 2.9 |
| 4/17/2015 | 5:42:43 | 51.51 | 50.41 | 50 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 5:42:45 | 51.84 | 50.74 | 122 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 | 5:42:47 | 52.17 | 51.07 | 179 | 0.29 | 0.42 | 9.8 |
| 4/17/2015 | 5:42:50 | 52.49 | 51.39 | 154 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 | 5:42:52 | 52.82 | 51.72 | 166 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 | 5:42:54 | 53.15 | 52.05 | 177 | 0.29 | 0.42 | 9.7 |
| 4/17/2015 | 5:42:55 | 53.48 | 52.38 | 183 | 0.29 | 0.42 | 10.0 |
| 4/17/2015 | 5:42:57 | 53.81 | 52.71 | 198 | 0.29 | 0.42 | 10.8 |
| 4/17/2015 | 5:42:58 | 54.13 | 53.03 | 267 | 0.29 | 0.42 | 14.6 |
| 4/17/2015 | 5:43:01 | 54.46 | 53.36 | 143 | 0.29 | 0.42 | 7.8 |
| 4/17/2015 | 5:43:03 | 54.79 | 53.69 | 154 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 | 5:43:06 | 55.12 | 54.02 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 5:43:09 | 55.45 | 54.35 | 110 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 | 5:43:13 | 55.77 | 54.67 | 102 | 0.29 | 0.42 | 5.6 |
| 4/17/2015 | 5:43:16 | 56.10 | 55.00 | 116 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 | 5:43:22 | 56.43 | 55.33 | 32 | 0.29 | 0.42 | 1.8 |

## A18 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:39:12

**End Date:**
4/17/2015 5:44:36

**Operator Note:**
'1.1 1.4 b Auto Complete'

**Northing:**
371,482.64

**Easting:**
259,586.41

**Tide (feet):**
1.10



## Hole: A19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:41:38 | 31.17 | 30.07 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 5:41:38 | 31.50 | 30.40 | 575 | 2.15 | 0.15 | 31.4 |
| 4/17/2015 5:41:39 | 31.82 | 30.72 | 575 | 2.15 | 0.15 | 31.4 |
| 4/17/2015 5:41:40 | 32.15 | 31.05 | 575 | 2.14 | 0.15 | 31.4 |
| 4/17/2015 5:41:40 | 32.48 | 31.38 | 571 | 2.16 | 0.15 | 31.2 |
| 4/17/2015 5:41:41 | 32.81 | 31.71 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 5:41:42 | 33.14 | 32.04 | 585 | 2.14 | 0.15 | 32.0 |
| 4/17/2015 5:41:42 | 33.46 | 32.36 | 588 | 2.14 | 0.15 | 32.2 |
| 4/17/2015 5:41:43 | 33.79 | 32.69 | 588 | 2.15 | 0.15 | 32.2 |
| 4/17/2015 5:41:43 | 34.12 | 33.02 | 578 | 2.15 | 0.14 | 31.6 |
| 4/17/2015 5:41:44 | 34.45 | 33.35 | 592 | 2.17 | 0.14 | 32.4 |
| 4/17/2015 5:41:44 | 34.78 | 33.68 | 576 | 2.15 | 0.14 | 31.5 |
| 4/17/2015 5:41:45 | 35.11 | 34.01 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 5:41:46 | 35.43 | 34.33 | 561 | 2.16 | 0.15 | 30.7 |
| 4/17/2015 5:41:46 | 35.76 | 34.66 | 571 | 2.15 | 0.15 | 31.2 |
| 4/17/2015 5:41:47 | 36.09 | 34.99 | 571 | 2.14 | 0.15 | 31.2 |
| 4/17/2015 5:41:47 | 36.42 | 35.32 | 564 | 2.14 | 0.15 | 30.9 |
| 4/17/2015 5:41:48 | 36.75 | 35.65 | 576 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:41:49 | 37.07 | 35.97 | 576 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:41:50 | 37.40 | 36.30 | 590 | 2.15 | 0.15 | 32.3 |
| 4/17/2015 5:41:50 | 37.73 | 36.63 | 571 | 2.17 | 0.15 | 31.2 |
| 4/17/2015 5:41:51 | 38.06 | 36.96 | 571 | 2.15 | 0.14 | 31.2 |
| 4/17/2015 5:41:51 | 38.39 | 37.29 | 571 | 2.15 | 0.15 | 31.2 |
| 4/17/2015 5:41:52 | 38.71 | 37.61 | 575 | 2.16 | 0.15 | 31.4 |
| 4/17/2015 5:41:53 | 39.04 | 37.94 | 573 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 5:41:53 | 39.37 | 38.27 | 576 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:41:54 | 39.70 | 38.60 | 588 | 2.16 | 0.14 | 32.2 |
| 4/17/2015 5:41:54 | 40.03 | 38.93 | 581 | 2.16 | 0.14 | 31.8 |
| 4/17/2015 5:41:55 | 40.35 | 39.25 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 5:41:56 | 40.68 | 39.58 | 582 | 2.21 | 0.15 | 31.8 |
| 4/17/2015 5:41:56 | 41.01 | 39.91 | 573 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 5:41:57 | 41.34 | 40.24 | 573 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 5:41:57 | 41.67 | 40.57 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 5:41:58 | 41.99 | 40.89 | 579 | 2.16 | 0.14 | 31.6 |
| 4/17/2015 5:41:59 | 42.32 | 41.22 | 590 | 2.15 | 0.14 | 32.2 |
| 4/17/2015 5:41:59 | 42.65 | 41.55 | 588 | 2.15 | 0.15 | 32.1 |
| 4/17/2015 5:42:00 | 42.98 | 41.88 | 589 | 2.14 | 0.15 | 32.2 |
| 4/17/2015 5:42:01 | 43.31 | 42.21 | 568 | 2.17 | 0.15 | 31.0 |
| 4/17/2015 5:42:01 | 43.64 | 42.54 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 5:42:02 | 43.96 | 42.86 | 569 | 2.14 | 0.15 | 31.1 |
| 4/17/2015 5:42:03 | 44.29 | 43.19 | 576 | 2.16 | 0.14 | 31.5 |
| 4/17/2015 5:42:03 | 44.62 | 43.52 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 5:42:04 | 44.95 | 43.85 | 575 | 2.14 | 0.15 | 31.4 |
| 4/17/2015 5:42:04 | 45.28 | 44.18 | 575 | 2.16 | 0.15 | 31.4 |
| 4/17/2015 5:42:05 | 45.60 | 44.50 | 580 | 2.14 | 0.15 | 31.7 |
| 4/17/2015 5:42:06 | 45.93 | 44.83 | 567 | 2.15 | 0.15 | 31.0 |
| 4/17/2015 5:42:06 | 46.26 | 45.16 | 567 | 2.15 | 0.14 | 31.0 |
| 4/17/2015 5:42:07 | 46.59 | 45.49 | 577 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 5:42:30 | 46.92 | 45.82 | 3 | 2.24 | 1.08 | 0.2 |
| 4/17/2015 5:42:42 | 47.24 | 46.14 | 48 | 2.35 | 1.21 | 2.6 |
| 4/17/2015 5:42:45 | 47.57 | 46.47 | 112 | 2.36 | 1.28 | 6.1 |
| 4/17/2015 5:42:49 | 47.90 | 46.80 | 88 | 2.38 | 1.41 | 4.8 |
| 4/17/2015 5:42:54 | 48.23 | 47.13 | 63 | 2.38 | 1.25 | 3.4 |
| 4/17/2015 5:42:57 | 48.40 | 47.30 | 69 | 2.36 | 1.20 | 3.8 |

## A19 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:39:46

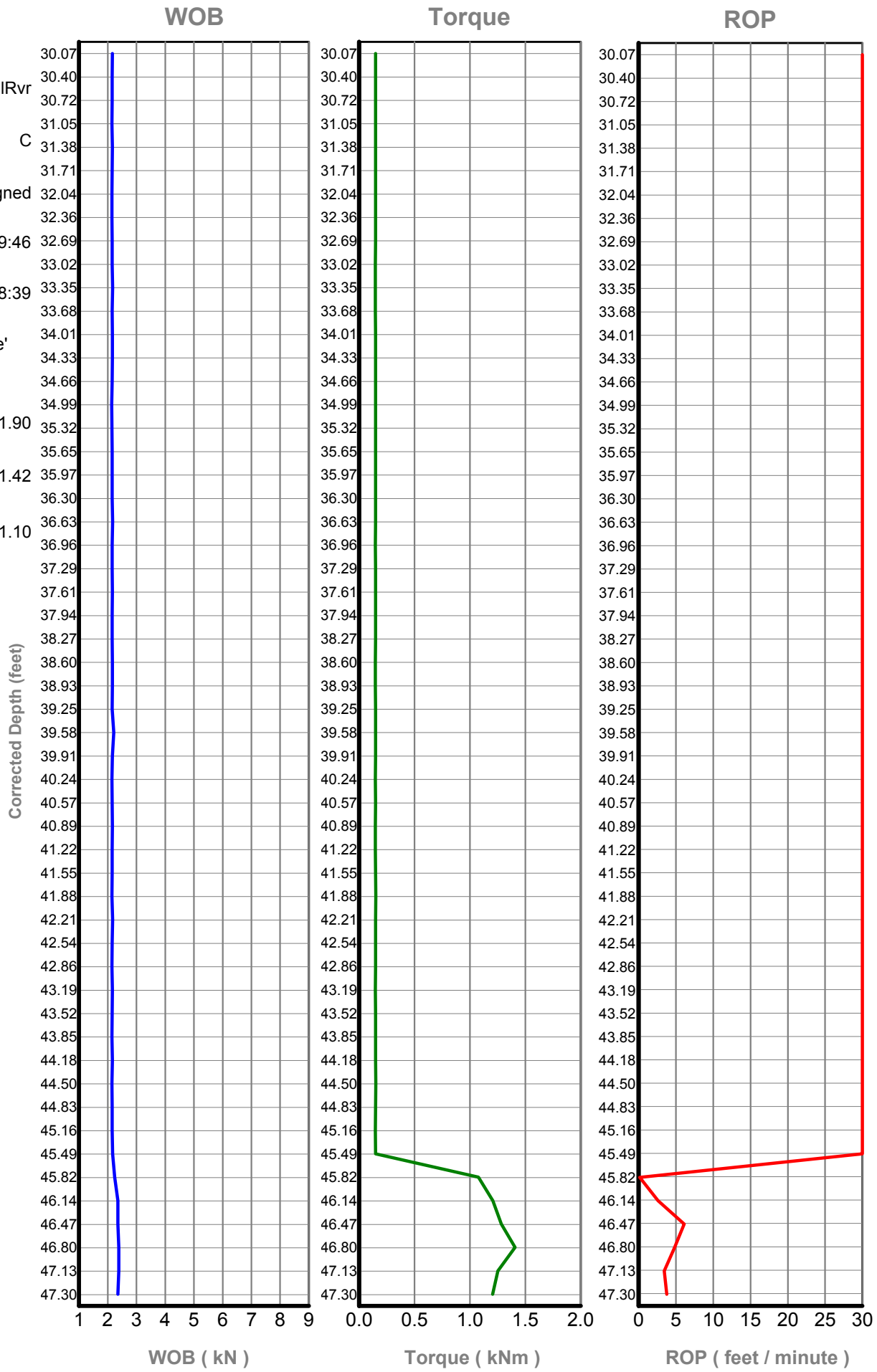
**End Date:**
4/17/2015 5:48:39

**Operator Note:**
'1.1 1.4 c Auto Complete'

**Northing:**
371,481.90

**Easting:**
259,661.42

**Tide (feet):**
1.10



## Hole: A2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:42:49 | 30.51 | 30.21 | 1,126 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 6:42:49 | 30.84 | 30.54 | 1,126 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 6:42:49 | 31.17 | 30.87 | 1,123 | 0.29 | 0.42 | 61.4 |
| 4/17/2015 6:42:50 | 31.50 | 31.20 | 1,123 | 0.29 | 0.42 | 61.4 |
| 4/17/2015 6:42:50 | 31.82 | 31.52 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 6:42:50 | 32.15 | 31.85 | 1,107 | 0.29 | 0.42 | 60.5 |
| 4/17/2015 6:42:51 | 32.48 | 32.18 | 1,107 | 0.29 | 0.42 | 60.5 |
| 4/17/2015 6:42:51 | 32.81 | 32.51 | 1,107 | 0.29 | 0.42 | 60.5 |
| 4/17/2015 6:43:38 | 33.14 | 32.84 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 6:43:39 | 33.46 | 33.16 | 162 | 0.29 | 0.42 | 8.9 |
| 4/17/2015 6:43:41 | 33.79 | 33.49 | 190 | 0.29 | 0.42 | 10.4 |
| 4/17/2015 6:43:44 | 34.12 | 33.82 | 122 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 6:43:46 | 34.45 | 34.15 | 154 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 6:43:47 | 34.78 | 34.48 | 204 | 0.29 | 0.42 | 11.2 |
| 4/17/2015 6:43:51 | 35.11 | 34.81 | 43 | 0.29 | 0.42 | 2.3 |
| 4/17/2015 6:44:07 | 35.43 | 35.13 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 6:44:10 | 35.76 | 35.46 | 29 | 0.29 | 0.42 | 1.6 |
| 4/17/2015 6:44:12 | 36.09 | 35.79 | 99 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 6:44:14 | 36.42 | 36.12 | 144 | 0.29 | 0.42 | 7.9 |
| 4/17/2015 6:44:18 | 36.75 | 36.45 | 71 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 6:44:20 | 37.07 | 36.77 | 221 | 0.29 | 0.42 | 12.1 |
| 4/17/2015 6:44:21 | 37.40 | 37.10 | 278 | 0.29 | 0.42 | 15.2 |
| 4/17/2015 6:44:22 | 37.73 | 37.43 | 248 | 0.29 | 0.42 | 13.5 |
| 4/17/2015 6:44:24 | 38.06 | 37.76 | 168 | 0.29 | 0.42 | 9.2 |
| 4/17/2015 6:44:28 | 38.39 | 38.09 | 99 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 6:44:32 | 38.71 | 38.41 | 81 | 0.29 | 0.42 | 4.5 |
| 4/17/2015 6:44:37 | 39.04 | 38.74 | 85 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 6:44:41 | 39.37 | 39.07 | 83 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 6:44:45 | 39.70 | 39.40 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 6:44:49 | 40.03 | 39.73 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 6:44:54 | 40.35 | 40.05 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 6:45:03 | 40.68 | 40.38 | 87 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 6:45:08 | 41.01 | 40.71 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 6:45:11 | 41.24 | 40.94 | 76 | 0.29 | 0.42 | 4.1 |

## A2 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:40:00

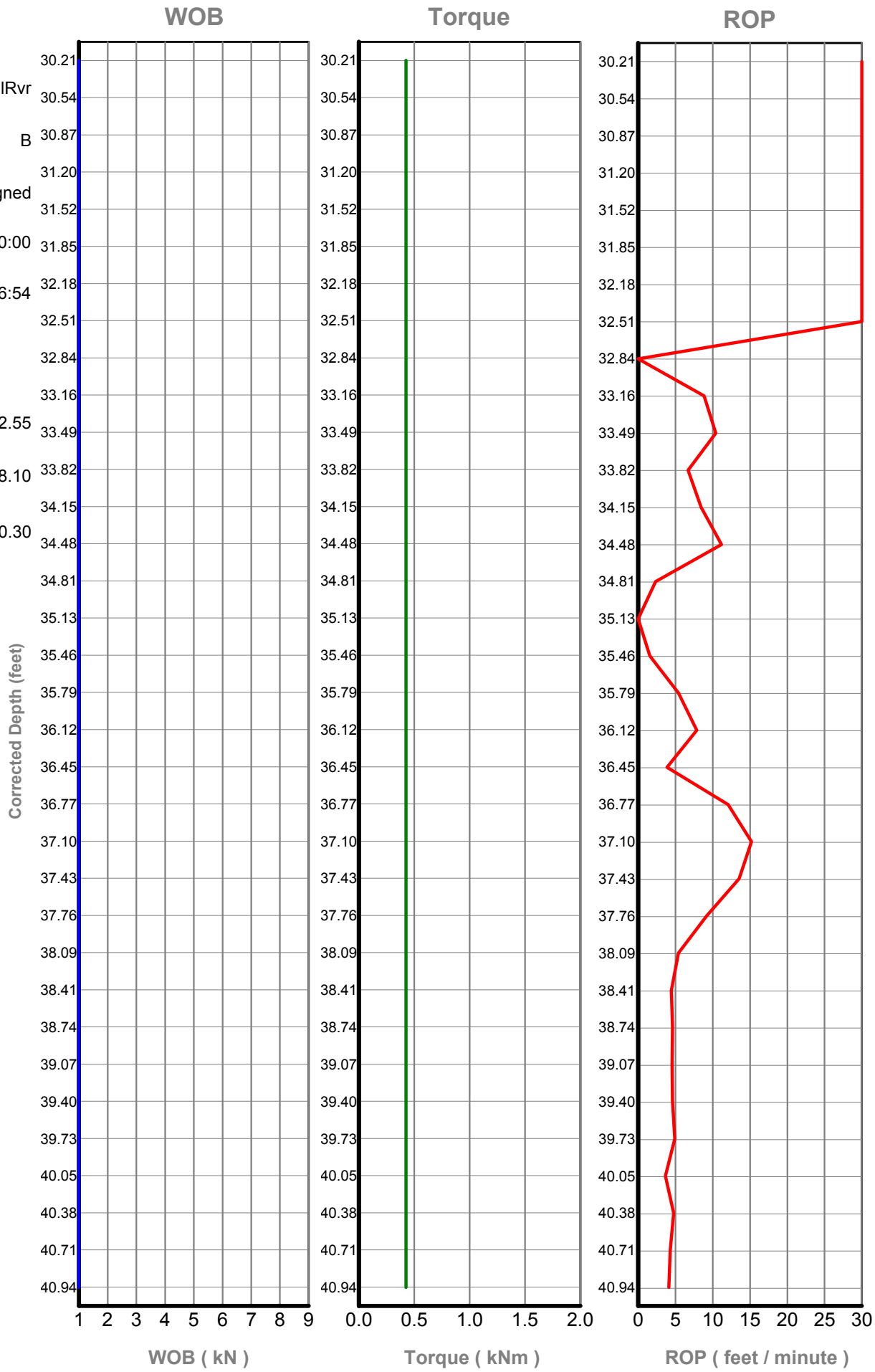
**End Date:**
4/17/2015 6:46:54

**Operator Note:**
'0.3 .6 b Auto Complete'

**Northing:**
371,632.55

**Easting:**
259,598.10

**Tide (feet):**
0.30



## Hole: A20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:05:09 | 31.17 | 30.17 | 0 | 1.65 | 0.33 | 0.0 |
| 4/16/2015 17:05:10 | 31.50 | 30.50 | 0 | 1.73 | 0.34 | 0.0 |
| 4/16/2015 17:05:10 | 31.82 | 30.82 | 197 | 1.76 | 0.33 | 10.8 |
| 4/16/2015 17:05:11 | 32.15 | 31.15 | 197 | 1.76 | 0.33 | 10.8 |
| 4/16/2015 17:05:11 | 32.48 | 31.48 | 411 | 1.78 | 0.34 | 22.5 |
| 4/16/2015 17:05:12 | 32.81 | 31.81 | 411 | 1.78 | 0.34 | 22.5 |
| 4/16/2015 17:05:11 | 33.14 | 32.14 | 631 | 1.79 | 0.34 | 34.5 |
| 4/16/2015 17:05:12 | 33.46 | 32.46 | 631 | 1.78 | 0.34 | 34.5 |
| 4/16/2015 17:05:13 | 33.79 | 32.79 | 631 | 1.78 | 0.34 | 34.5 |
| 4/16/2015 17:05:13 | 34.12 | 33.12 | 873 | 1.79 | 0.34 | 47.7 |
| 4/16/2015 17:05:13 | 34.45 | 33.45 | 873 | 1.79 | 0.34 | 47.7 |
| 4/16/2015 17:05:13 | 34.78 | 33.78 | 1,095 | 1.79 | 0.34 | 59.9 |
| 4/16/2015 17:05:14 | 35.11 | 34.11 | 1,140 | 1.78 | 0.35 | 62.4 |
| 4/16/2015 17:05:14 | 35.43 | 34.43 | 1,140 | 1.78 | 0.35 | 62.4 |
| 4/16/2015 17:05:14 | 35.76 | 34.76 | 1,153 | 1.79 | 0.33 | 63.0 |
| 4/16/2015 17:05:15 | 36.09 | 35.09 | 1,153 | 1.79 | 0.33 | 63.0 |
| 4/16/2015 17:05:15 | 36.42 | 35.42 | 1,154 | 1.79 | 0.34 | 63.1 |
| 4/16/2015 17:05:15 | 36.75 | 35.75 | 1,140 | 1.77 | 0.34 | 62.4 |
| 4/16/2015 17:05:16 | 37.07 | 36.07 | 1,140 | 1.77 | 0.34 | 62.4 |
| 4/16/2015 17:05:16 | 37.40 | 36.40 | 1,140 | 1.77 | 0.34 | 62.4 |
| 4/16/2015 17:05:16 | 37.73 | 36.73 | 1,140 | 1.77 | 0.34 | 62.4 |
| 4/16/2015 17:05:16 | 38.06 | 37.06 | 1,158 | 1.76 | 0.34 | 63.3 |
| 4/16/2015 17:05:17 | 38.39 | 37.39 | 1,144 | 1.77 | 0.33 | 62.5 |
| 4/16/2015 17:05:17 | 38.71 | 37.71 | 1,144 | 1.77 | 0.33 | 62.5 |
| 4/16/2015 17:05:17 | 39.04 | 38.04 | 1,153 | 1.76 | 0.34 | 63.1 |
| 4/16/2015 17:05:18 | 39.37 | 38.37 | 1,153 | 1.76 | 0.34 | 63.1 |
| 4/16/2015 17:05:18 | 39.70 | 38.70 | 1,160 | 1.76 | 0.34 | 63.4 |
| 4/16/2015 17:05:18 | 40.03 | 39.03 | 1,164 | 1.77 | 0.34 | 63.6 |
| 4/16/2015 17:05:19 | 40.35 | 39.35 | 1,164 | 1.77 | 0.34 | 63.6 |
| 4/16/2015 17:05:19 | 40.68 | 39.68 | 1,138 | 1.76 | 0.33 | 62.2 |
| 4/16/2015 17:05:19 | 41.01 | 40.01 | 1,138 | 1.76 | 0.33 | 62.2 |
| 4/16/2015 17:05:19 | 41.34 | 40.34 | 1,155 | 1.76 | 0.34 | 63.2 |
| 4/16/2015 17:05:20 | 41.67 | 40.67 | 1,149 | 1.76 | 0.33 | 62.9 |
| 4/16/2015 17:05:20 | 41.99 | 40.99 | 1,149 | 1.76 | 0.33 | 62.9 |
| 4/16/2015 17:05:20 | 42.32 | 41.32 | 1,152 | 1.76 | 0.33 | 63.0 |
| 4/16/2015 17:05:21 | 42.65 | 41.65 | 1,152 | 1.76 | 0.33 | 63.0 |
| 4/16/2015 17:05:21 | 42.98 | 41.98 | 1,148 | 1.74 | 0.35 | 62.8 |
| 4/16/2015 17:05:21 | 43.31 | 42.31 | 1,148 | 1.74 | 0.35 | 62.8 |
| 4/16/2015 17:05:21 | 43.64 | 42.64 | 1,170 | 1.76 | 0.33 | 64.0 |
| 4/16/2015 17:05:22 | 43.96 | 42.96 | 1,150 | 1.76 | 0.33 | 62.9 |
| 4/16/2015 17:05:23 | 44.29 | 43.29 | 1,150 | 1.76 | 0.33 | 62.9 |
| 4/16/2015 17:05:23 | 44.62 | 43.62 | 1,137 | 1.74 | 0.33 | 62.2 |
| 4/16/2015 17:05:23 | 44.95 | 43.95 | 1,137 | 1.74 | 0.33 | 62.2 |
| 4/16/2015 17:05:23 | 45.28 | 44.28 | 1,137 | 1.76 | 0.34 | 62.2 |
| 4/16/2015 17:05:24 | 45.60 | 44.60 | 1,143 | 1.75 | 0.34 | 62.5 |
| 4/16/2015 17:05:24 | 45.93 | 44.93 | 1,143 | 1.75 | 0.34 | 62.5 |
| 4/16/2015 17:05:24 | 46.26 | 45.26 | 1,144 | 1.74 | 0.33 | 62.6 |
| 4/16/2015 17:05:25 | 46.59 | 45.59 | 1,123 | 1.76 | 0.34 | 61.4 |
| 4/16/2015 17:05:25 | 46.92 | 45.92 | 1,123 | 1.76 | 0.34 | 61.4 |
| 4/16/2015 17:05:25 | 47.24 | 46.24 | 1,105 | 2.36 | 0.43 | 60.4 |
| 4/16/2015 17:06:03 | 47.57 | 46.57 | 14 | 3.58 | 0.47 | 0.8 |
| 4/16/2015 17:06:22 | 47.90 | 46.90 | 43 | 3.70 | 0.45 | 2.4 |
| 4/16/2015 17:06:27 | 48.23 | 47.23 | 72 | 3.84 | 0.40 | 3.9 |
| 4/16/2015 17:06:36 | 48.56 | 47.56 | 37 | 3.33 | 0.39 | 2.0 |
| 4/16/2015 17:06:44 | 48.88 | 47.88 | 34 | 3.16 | 0.40 | 1.9 |
| 4/16/2015 17:06:54 | 48.94 | 47.94 | 0 | 3.72 | 0.51 | 0.0 |

## A20 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:03:14

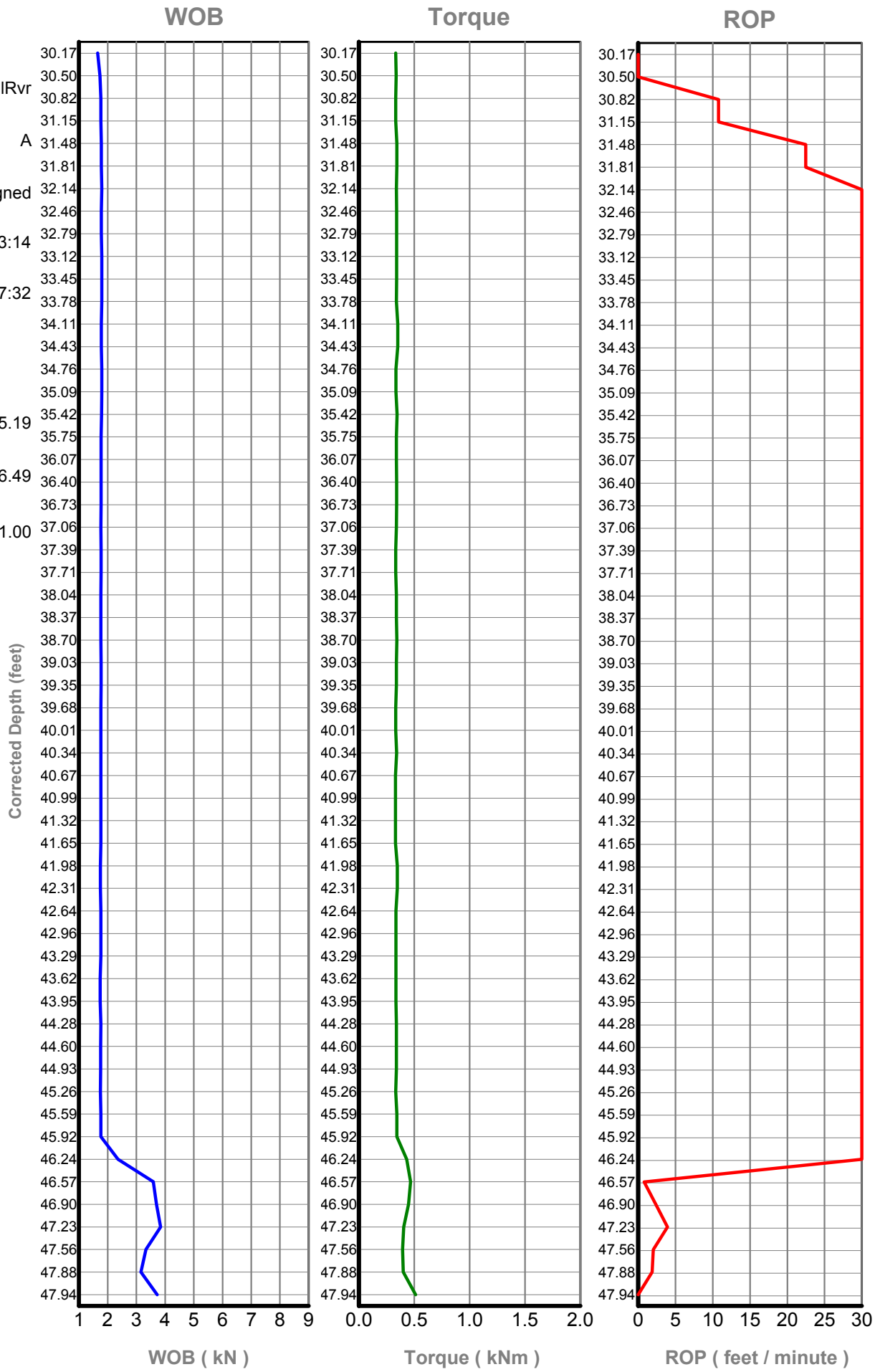
**End Date:**
4/16/2015 17:07:32

**Operator Note:**
'1 1.3 a Auto Complete'

**Northing:**
371,465.19

**Easting:**
259,726.49

**Tide (feet):**
1.00



## Hole: A21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:03:37 | 31.17 | 30.17 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 17:03:37 | 31.50 | 30.50 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:03:38 | 31.82 | 30.82 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:03:38 | 32.15 | 31.15 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 17:03:38 | 32.48 | 31.48 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 17:03:39 | 32.81 | 31.81 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 17:03:39 | 33.14 | 32.14 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 17:03:39 | 33.46 | 32.46 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 17:03:40 | 33.79 | 32.79 | 915 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 17:03:40 | 34.12 | 33.12 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 17:03:41 | 34.45 | 33.45 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:03:41 | 34.78 | 33.78 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:03:41 | 35.11 | 34.11 | 895 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 17:03:42 | 35.43 | 34.43 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:03:42 | 35.76 | 34.76 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 17:03:43 | 36.09 | 35.09 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 17:03:43 | 36.42 | 35.42 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 17:03:43 | 36.75 | 35.75 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 17:03:44 | 37.07 | 36.07 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 17:03:44 | 37.40 | 36.40 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 17:03:44 | 37.73 | 36.73 | 883 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 17:03:45 | 38.06 | 37.06 | 883 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 17:03:45 | 38.39 | 37.39 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 17:03:46 | 38.71 | 37.71 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:03:46 | 39.04 | 38.04 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:03:46 | 39.37 | 38.37 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:03:47 | 39.70 | 38.70 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:03:48 | 40.03 | 39.03 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 17:03:48 | 40.35 | 39.35 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 17:03:48 | 40.68 | 39.68 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 17:03:49 | 41.01 | 40.01 | 888 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:03:49 | 41.34 | 40.34 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 17:03:50 | 41.67 | 40.67 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 17:03:50 | 41.99 | 40.99 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 17:03:50 | 42.32 | 41.32 | 883 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 17:03:51 | 42.65 | 41.65 | 883 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 17:03:51 | 42.98 | 41.98 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:03:52 | 43.31 | 42.31 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:03:52 | 43.64 | 42.64 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:03:52 | 43.96 | 42.96 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:03:53 | 44.29 | 43.29 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:03:53 | 44.62 | 43.62 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:03:53 | 44.95 | 43.95 | 912 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:03:54 | 45.28 | 44.28 | 912 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:03:54 | 45.60 | 44.60 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:03:55 | 45.93 | 44.93 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:03:55 | 46.26 | 45.26 | 903 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 17:04:18 | 46.59 | 45.59 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 17:04:23 | 46.92 | 45.92 | 67 | 0.29 | 0.42 | 3.6 |
| 4/16/2015 17:04:27 | 47.24 | 46.24 | 80 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 17:04:31 | 47.57 | 46.57 | 92 | 0.29 | 0.42 | 5.0 |
| 4/16/2015 17:04:35 | 47.90 | 46.90 | 101 | 0.29 | 0.42 | 5.5 |
| 4/16/2015 17:04:42 | 48.23 | 47.23 | 50 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 17:04:50 | 48.56 | 47.56 | 47 | 0.29 | 0.42 | 2.5 |
| 4/16/2015 17:04:57 | 48.88 | 47.88 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 17:05:06 | 49.21 | 48.21 | 38 | 0.29 | 0.42 | 2.1 |

## A21 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:01:18

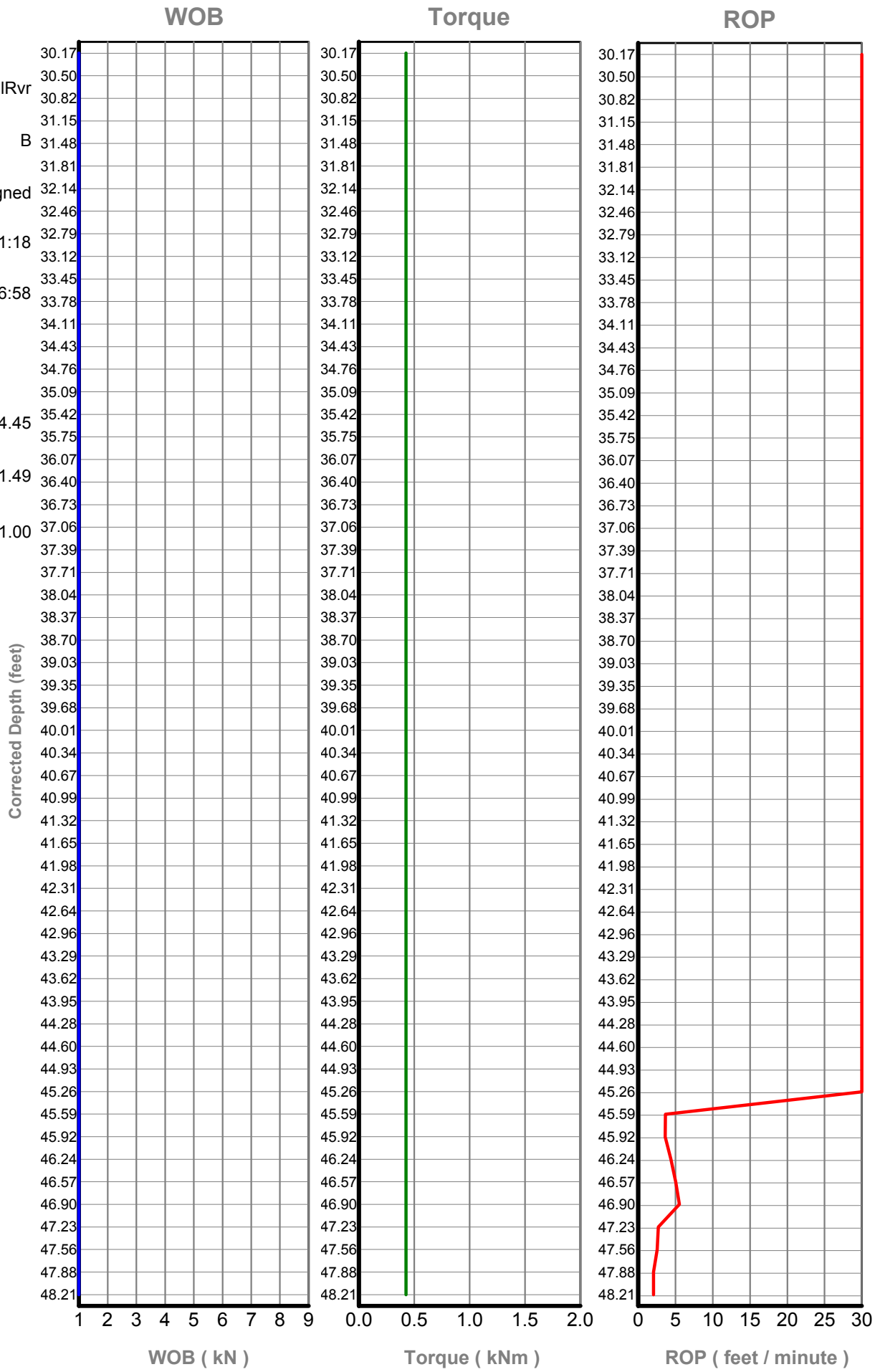
**End Date:**
4/16/2015 17:06:58

**Operator Note:**
'1 1.3 b Hit rock @ 48'

**Northing:**
371,464.45

**Easting:**
259,801.49

**Tide (feet):**
1.00



## Hole: A22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:05:21 | 31.17 | 30.17 | 728 | 2.27 | 0.13 | 39.8 |
| 4/16/2015 17:05:22 | 31.50 | 30.50 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:05:22 | 31.82 | 30.82 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:05:23 | 32.15 | 31.15 | 726 | 2.26 | 0.13 | 39.7 |
| 4/16/2015 17:05:24 | 32.48 | 31.48 | 723 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:05:24 | 32.81 | 31.81 | 721 | 2.26 | 0.13 | 39.5 |
| 4/16/2015 17:05:25 | 33.14 | 32.14 | 724 | 2.26 | 0.13 | 39.6 |
| 4/16/2015 17:05:25 | 33.46 | 32.46 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:05:26 | 33.79 | 32.79 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:05:26 | 34.12 | 33.12 | 729 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:05:26 | 34.45 | 33.45 | 724 | 2.26 | 0.13 | 39.6 |
| 4/16/2015 17:05:27 | 34.78 | 33.78 | 728 | 2.19 | 0.13 | 39.8 |
| 4/16/2015 17:05:27 | 35.11 | 34.11 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:05:28 | 35.43 | 34.43 | 728 | 2.26 | 0.13 | 39.8 |
| 4/16/2015 17:05:28 | 35.76 | 34.76 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:05:29 | 36.09 | 35.09 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:05:29 | 36.42 | 35.42 | 722 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:05:30 | 36.75 | 35.75 | 723 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:05:30 | 37.07 | 36.07 | 708 | 2.26 | 0.13 | 38.7 |
| 4/16/2015 17:05:31 | 37.40 | 36.40 | 708 | 2.27 | 0.13 | 38.7 |
| 4/16/2015 17:05:31 | 37.73 | 36.73 | 716 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:05:32 | 38.06 | 37.06 | 727 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:05:33 | 38.39 | 37.39 | 719 | 2.27 | 0.13 | 39.3 |
| 4/16/2015 17:05:33 | 38.71 | 37.71 | 703 | 2.26 | 0.13 | 38.4 |
| 4/16/2015 17:05:33 | 39.04 | 38.04 | 703 | 2.25 | 0.13 | 38.4 |
| 4/16/2015 17:05:34 | 39.37 | 38.37 | 722 | 2.27 | 0.13 | 39.5 |
| 4/16/2015 17:05:35 | 39.70 | 38.70 | 722 | 2.27 | 0.13 | 39.5 |
| 4/16/2015 17:05:35 | 40.03 | 39.03 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:05:35 | 40.35 | 39.35 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:05:36 | 40.68 | 39.68 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:05:36 | 41.01 | 40.01 | 733 | 2.26 | 0.13 | 40.1 |
| 4/16/2015 17:05:37 | 41.34 | 40.34 | 713 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:05:37 | 41.67 | 40.67 | 713 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 17:05:38 | 41.99 | 40.99 | 721 | 2.26 | 0.13 | 39.4 |
| 4/16/2015 17:05:38 | 42.32 | 41.32 | 705 | 2.25 | 0.13 | 38.6 |
| 4/16/2015 17:05:39 | 42.65 | 41.65 | 705 | 2.27 | 0.13 | 38.6 |
| 4/16/2015 17:05:39 | 42.98 | 41.98 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:05:40 | 43.31 | 42.31 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 17:05:40 | 43.64 | 42.64 | 723 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:05:41 | 43.96 | 42.96 | 716 | 2.25 | 0.13 | 39.1 |
| 4/16/2015 17:05:41 | 44.29 | 43.29 | 727 | 2.26 | 0.13 | 39.8 |
| 4/16/2015 17:05:42 | 44.62 | 43.62 | 723 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:05:42 | 44.95 | 43.95 | 723 | 2.27 | 0.13 | 39.5 |
| 4/16/2015 17:05:43 | 45.28 | 44.28 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:05:43 | 45.60 | 44.60 | 723 | 2.31 | 0.13 | 39.5 |
| 4/16/2015 17:06:08 | 45.93 | 44.93 | 0 | 2.41 | 1.03 | 0.0 |
| 4/16/2015 17:06:15 | 46.26 | 45.26 | 38 | 2.51 | 1.23 | 2.1 |
| 4/16/2015 17:06:25 | 46.59 | 45.59 | 35 | 2.51 | 1.14 | 1.9 |
| 4/16/2015 17:06:36 | 46.92 | 45.92 | 32 | 2.51 | 1.23 | 1.7 |
| 4/16/2015 17:06:48 | 47.24 | 46.24 | 32 | 2.55 | 1.29 | 1.7 |
| 4/16/2015 17:07:00 | 47.57 | 46.57 | 29 | 2.51 | 1.46 | 1.6 |
| 4/16/2015 17:07:11 | 47.90 | 46.90 | 29 | 2.51 | 1.21 | 1.6 |
| 4/16/2015 17:07:13 | 47.96 | 46.96 | 32 | 2.51 | 1.39 | 1.7 |

## A22 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:03:43

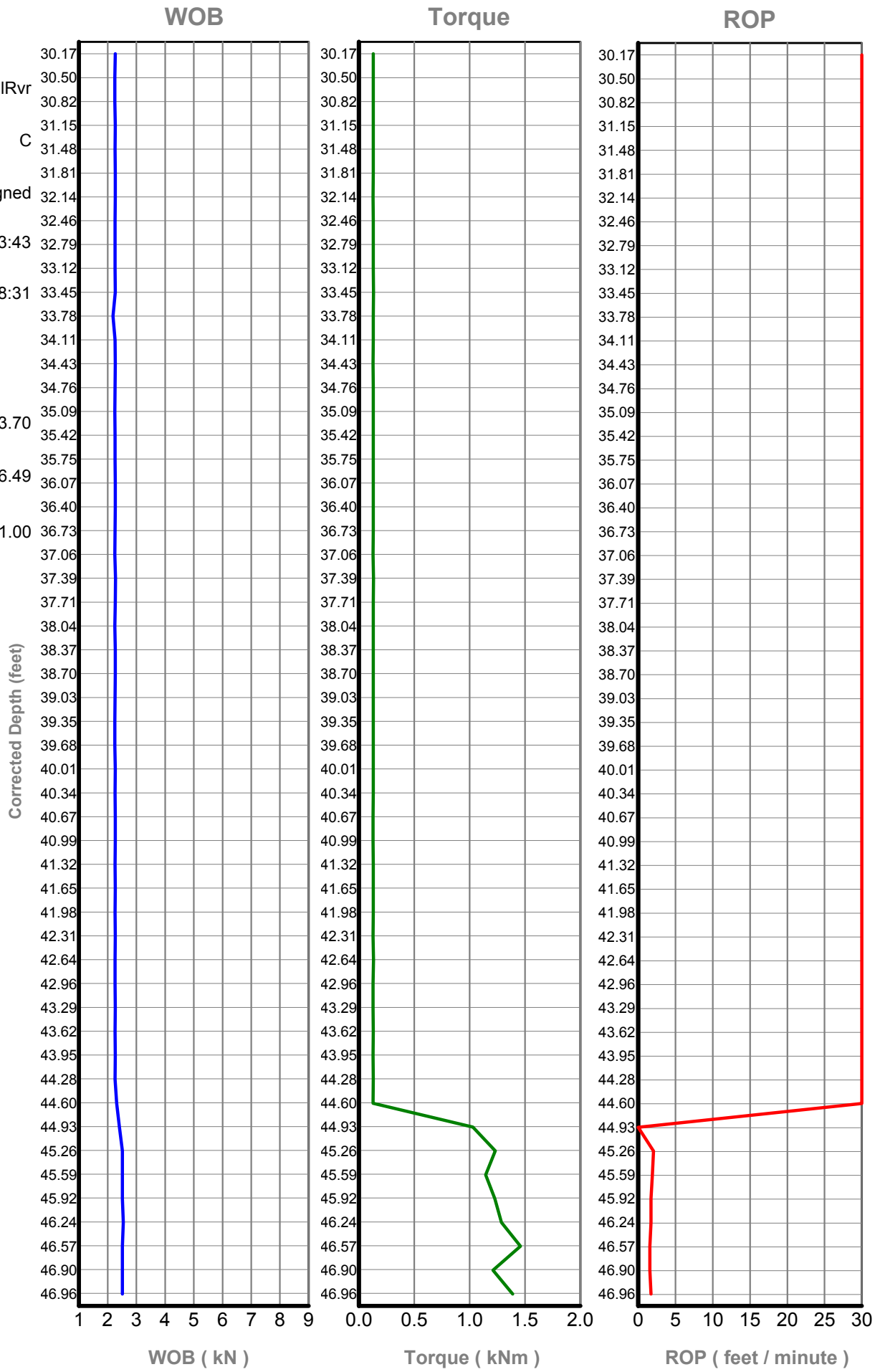
**End Date:**
4/16/2015 17:08:31

**Operator Note:**
'1 1.3 c Auto Complete'

**Northing:**
371,463.70

**Easting:**
259,876.49

**Tide (feet):**
1.00



## Hole: A23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 14:32:34 | 33.79 | 30.29 | 1,111 | 1.90 | 0.33 | 60.7 |
| 4/15/2015 14:32:34 | 34.12 | 30.62 | 1,111 | 1.89 | 0.32 | 60.7 |
| 4/15/2015 14:32:34 | 34.45 | 30.95 | 1,111 | 1.89 | 0.32 | 60.7 |
| 4/15/2015 14:32:34 | 34.78 | 31.28 | 1,113 | 1.89 | 0.33 | 60.9 |
| 4/15/2015 14:32:35 | 35.11 | 31.61 | 1,107 | 1.90 | 0.33 | 60.5 |
| 4/15/2015 14:32:35 | 35.43 | 31.93 | 1,107 | 1.90 | 0.33 | 60.5 |
| 4/15/2015 14:32:35 | 35.76 | 32.26 | 1,123 | 1.89 | 0.32 | 61.4 |
| 4/15/2015 14:32:36 | 36.09 | 32.59 | 1,123 | 1.89 | 0.32 | 61.4 |
| 4/15/2015 14:32:36 | 36.42 | 32.92 | 1,113 | 1.90 | 0.32 | 60.9 |
| 4/15/2015 14:32:36 | 36.75 | 33.25 | 1,113 | 1.88 | 0.32 | 60.9 |
| 4/15/2015 14:32:37 | 37.07 | 33.57 | 1,113 | 1.88 | 0.32 | 60.9 |
| 4/15/2015 14:32:37 | 37.40 | 33.90 | 1,110 | 1.89 | 0.32 | 60.7 |
| 4/15/2015 14:32:37 | 37.73 | 34.23 | 1,116 | 1.89 | 0.32 | 61.0 |
| 4/15/2015 14:32:38 | 38.06 | 34.56 | 1,116 | 1.89 | 0.32 | 61.0 |
| 4/15/2015 14:32:38 | 38.39 | 34.89 | 1,113 | 1.88 | 0.33 | 60.9 |
| 4/15/2015 14:32:38 | 38.71 | 35.21 | 1,113 | 1.88 | 0.33 | 60.9 |
| 4/15/2015 14:32:38 | 39.04 | 35.54 | 1,119 | 1.90 | 0.32 | 61.2 |
| 4/15/2015 14:32:39 | 39.37 | 35.87 | 1,113 | 1.87 | 0.33 | 60.9 |
| 4/15/2015 14:32:39 | 39.70 | 36.20 | 1,113 | 1.87 | 0.33 | 60.9 |
| 4/15/2015 14:32:39 | 40.03 | 36.53 | 1,116 | 1.89 | 0.33 | 61.0 |
| 4/15/2015 14:32:40 | 40.35 | 36.85 | 1,116 | 1.89 | 0.33 | 61.0 |
| 4/15/2015 14:32:40 | 40.68 | 37.18 | 1,117 | 1.89 | 0.33 | 61.1 |
| 4/15/2015 14:32:40 | 41.01 | 37.51 | 1,110 | 1.89 | 0.32 | 60.7 |
| 4/15/2015 14:32:41 | 41.34 | 37.84 | 1,110 | 1.89 | 0.32 | 60.7 |
| 4/15/2015 14:32:41 | 41.67 | 38.17 | 1,101 | 1.88 | 0.33 | 60.2 |
| 4/15/2015 14:32:41 | 41.99 | 38.49 | 1,110 | 1.88 | 0.33 | 60.7 |
| 4/15/2015 14:32:42 | 42.32 | 38.82 | 1,110 | 1.88 | 0.33 | 60.7 |
| 4/15/2015 14:32:42 | 42.65 | 39.15 | 1,110 | 1.89 | 0.33 | 60.7 |
| 4/15/2015 14:32:43 | 42.98 | 39.48 | 1,110 | 1.89 | 0.33 | 60.7 |
| 4/15/2015 14:32:43 | 43.31 | 39.81 | 1,107 | 1.87 | 0.33 | 60.5 |
| 4/15/2015 14:32:43 | 43.64 | 40.14 | 1,101 | 1.88 | 0.31 | 60.2 |
| 4/15/2015 14:32:44 | 43.96 | 40.46 | 1,101 | 1.88 | 0.31 | 60.2 |
| 4/15/2015 14:32:44 | 44.29 | 40.79 | 1,113 | 1.87 | 0.33 | 60.9 |
| 4/15/2015 14:32:44 | 44.62 | 41.12 | 1,104 | 1.88 | 0.32 | 60.4 |
| 4/15/2015 14:32:45 | 44.95 | 41.45 | 1,104 | 1.88 | 0.32 | 60.4 |
| 4/15/2015 14:32:45 | 45.28 | 41.78 | 1,108 | 1.88 | 0.32 | 60.6 |
| 4/15/2015 14:32:45 | 45.60 | 42.10 | 1,108 | 1.88 | 0.32 | 60.6 |
| 4/15/2015 14:32:45 | 45.93 | 42.43 | 1,104 | 1.87 | 0.33 | 60.4 |
| 4/15/2015 14:32:46 | 46.26 | 42.76 | 1,120 | 1.88 | 0.33 | 61.2 |
| 4/15/2015 14:32:46 | 46.59 | 43.09 | 1,120 | 1.88 | 0.33 | 61.2 |
| 4/15/2015 14:32:46 | 46.92 | 43.42 | 1,107 | 1.86 | 0.33 | 60.5 |
| 4/15/2015 14:32:47 | 47.24 | 43.74 | 1,107 | 1.86 | 0.33 | 60.5 |
| 4/15/2015 14:32:47 | 47.57 | 44.07 | 1,098 | 1.88 | 0.33 | 60.1 |
| 4/15/2015 14:32:47 | 47.90 | 44.40 | 1,102 | 1.87 | 0.34 | 60.3 |
| 4/15/2015 14:32:48 | 48.23 | 44.73 | 1,102 | 1.87 | 0.34 | 60.3 |
| 4/15/2015 14:32:50 | 48.56 | 45.06 | 21 | 1.73 | 0.33 | 1.1 |
| 4/15/2015 14:32:54 | 48.88 | 45.38 | 6 | 1.79 | 0.35 | 0.3 |
| 4/15/2015 14:32:54 | 49.21 | 45.71 | 138 | 1.83 | 0.33 | 7.6 |
| 4/15/2015 14:33:12 | 49.54 | 46.04 | 0 | 4.04 | 0.43 | 0.0 |
| 4/15/2015 14:33:22 | 49.87 | 46.37 | 29 | 5.01 | 0.41 | 1.6 |
| 4/15/2015 14:33:26 | 50.20 | 46.70 | 92 | 4.76 | 0.42 | 5.0 |
| 4/15/2015 14:33:32 | 50.53 | 47.03 | 46 | 5.14 | 0.42 | 2.5 |
| 4/15/2015 14:33:58 | 50.70 | 47.20 | 8 | 4.58 | 0.17 | 0.4 |

## A23 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 14:30:15

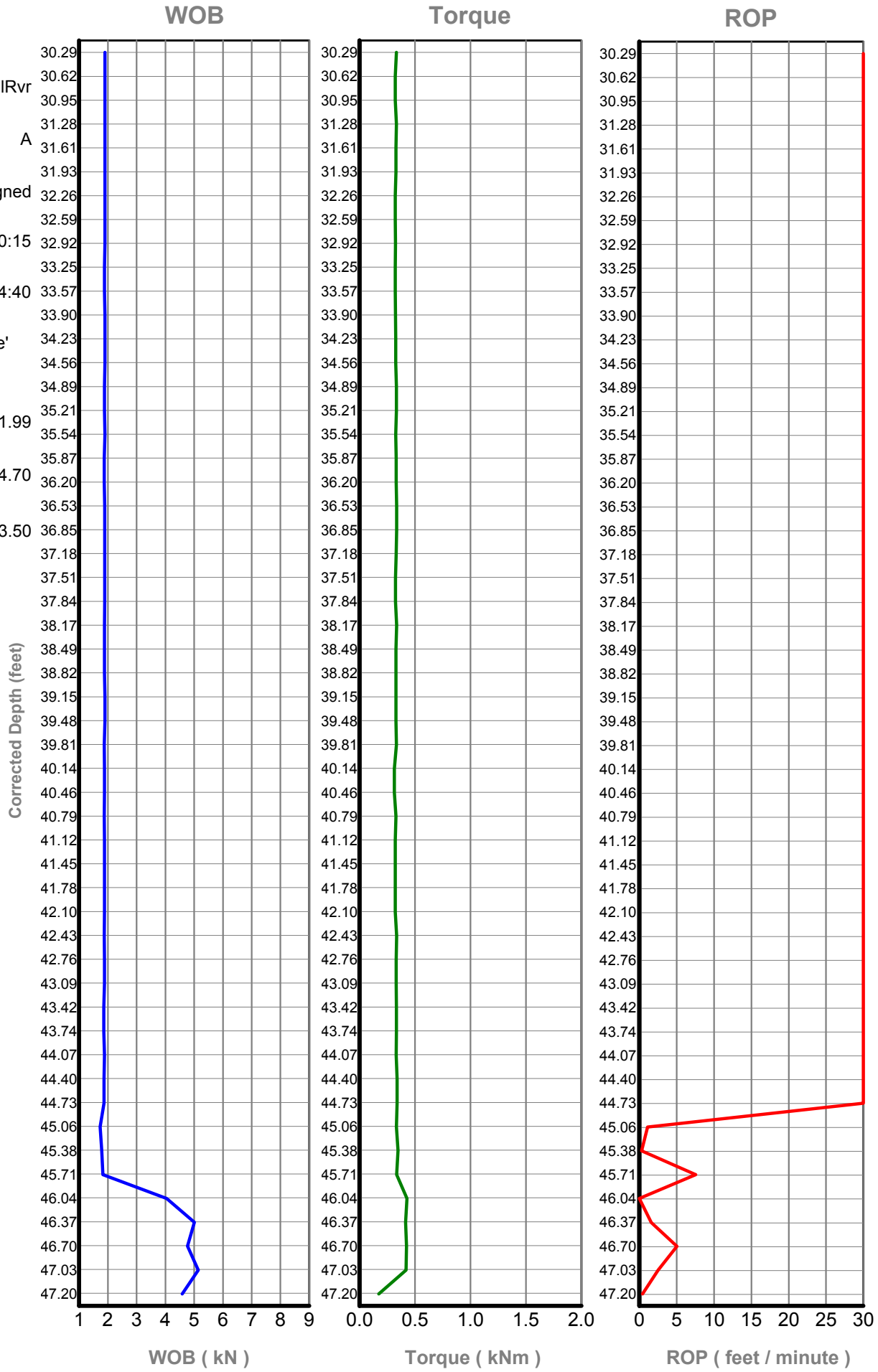
**End Date:**
4/15/2015 14:34:40

**Operator Note:**
'3.5 3.7 a Auto Complete'

**Northing:**
371,461.99

**Easting:**
259,954.70

**Tide (feet):**
3.50



## Hole: A24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:13:55 | 33.79 | 30.09 | 884 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 14:13:55 | 34.12 | 30.42 | 884 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 14:13:56 | 34.45 | 30.75 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 14:13:56 | 34.78 | 31.08 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 14:13:56 | 35.11 | 31.41 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 14:13:57 | 35.43 | 31.73 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:13:57 | 35.76 | 32.06 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:13:58 | 36.09 | 32.39 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:13:58 | 36.42 | 32.72 | 890 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 14:13:58 | 36.75 | 33.05 | 875 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:13:59 | 37.07 | 33.37 | 869 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 14:13:59 | 37.40 | 33.70 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 14:14:00 | 37.73 | 34.03 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 14:14:00 | 38.06 | 34.36 | 868 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:00 | 38.39 | 34.69 | 868 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:01 | 38.71 | 35.01 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 14:14:01 | 39.04 | 35.34 | 900 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 14:14:02 | 39.37 | 35.67 | 900 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 14:14:02 | 39.70 | 36.00 | 903 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 14:14:02 | 40.03 | 36.33 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 14:14:03 | 40.35 | 36.65 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 14:14:03 | 40.68 | 36.98 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 14:14:03 | 41.01 | 37.31 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 14:14:04 | 41.34 | 37.64 | 879 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 14:14:05 | 41.67 | 37.97 | 876 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 14:14:05 | 41.99 | 38.29 | 871 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 14:14:06 | 42.32 | 38.62 | 871 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 14:14:06 | 42.65 | 38.95 | 866 | 0.29 | 0.42 | 47.3 |
| 4/16/2015 14:14:06 | 42.98 | 39.28 | 866 | 0.29 | 0.42 | 47.3 |
| 4/16/2015 14:14:07 | 43.31 | 39.61 | 873 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:14:07 | 43.64 | 39.94 | 873 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:14:07 | 43.96 | 40.26 | 873 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:14:08 | 44.29 | 40.59 | 868 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 14:14:08 | 44.62 | 40.92 | 868 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 14:14:09 | 44.95 | 41.25 | 875 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:14:09 | 45.28 | 41.58 | 875 | 0.29 | 0.42 | 47.8 |
| 4/16/2015 14:14:09 | 45.60 | 41.90 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 14:14:10 | 45.93 | 42.23 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 14:14:10 | 46.26 | 42.56 | 873 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 14:14:11 | 46.59 | 42.89 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:11 | 46.92 | 43.22 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:11 | 47.24 | 43.54 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:12 | 47.57 | 43.87 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 14:14:12 | 47.90 | 44.20 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 14:14:13 | 48.23 | 44.53 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 14:14:13 | 48.56 | 44.86 | 872 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 14:14:13 | 48.88 | 45.18 | 876 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 14:14:14 | 49.21 | 45.51 | 895 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 14:14:14 | 49.54 | 45.84 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:14:15 | 49.87 | 46.17 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:14:15 | 50.20 | 46.50 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 14:14:16 | 50.53 | 46.83 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 14:14:32 | 50.85 | 47.15 | 93 | 0.29 | 0.42 | 5.1 |
| 4/16/2015 14:14:40 | 51.18 | 47.48 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 14:14:47 | 51.51 | 47.81 | 52 | 0.29 | 0.42 | 2.9 |
| 4/16/2015 14:14:51 | 51.84 | 48.14 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 14:14:56 | 52.17 | 48.47 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 14:15:01 | 52.49 | 48.79 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 14:15:26 | 52.82 | 49.12 | 17 | 0.29 | 0.42 | 0.9 |
| 4/16/2015 14:15:31 | 53.15 | 49.45 | 83 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 14:15:33 | 53.48 | 49.78 | 146 | 0.29 | 0.42 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:15:37 | 53.81 | 50.11 | 89 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 14:15:39 | 54.13 | 50.43 | 122 | 0.29 | 0.42 | 6.6 |
| 4/16/2015 | 14:15:41 | 54.46 | 50.76 | 208 | 0.29 | 0.42 | 11.4 |
| 4/16/2015 | 14:15:49 | 54.79 | 51.09 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 14:15:54 | 55.12 | 51.42 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 14:15:59 | 55.45 | 51.75 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 14:16:04 | 55.77 | 52.07 | 87 | 0.29 | 0.42 | 4.8 |
| 4/16/2015 | 14:16:08 | 56.10 | 52.40 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 14:16:14 | 56.43 | 52.73 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 14:16:19 | 56.76 | 53.06 | 75 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 | 14:16:24 | 57.09 | 53.39 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 14:16:29 | 57.41 | 53.71 | 69 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 | 14:16:32 | 57.74 | 54.04 | 123 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 | 14:16:35 | 58.07 | 54.37 | 119 | 0.29 | 0.42 | 6.5 |
| 4/16/2015 | 14:16:44 | 58.40 | 54.70 | 32 | 0.29 | 0.42 | 1.8 |
| 4/16/2015 | 14:16:56 | 58.73 | 55.03 | 23 | 0.29 | 0.42 | 1.3 |
| 4/16/2015 | 14:17:00 | 59.06 | 55.36 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 | 14:17:04 | 59.33 | 55.63 | 79 | 0.29 | 0.42 | 4.3 |

## A24 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:12:34

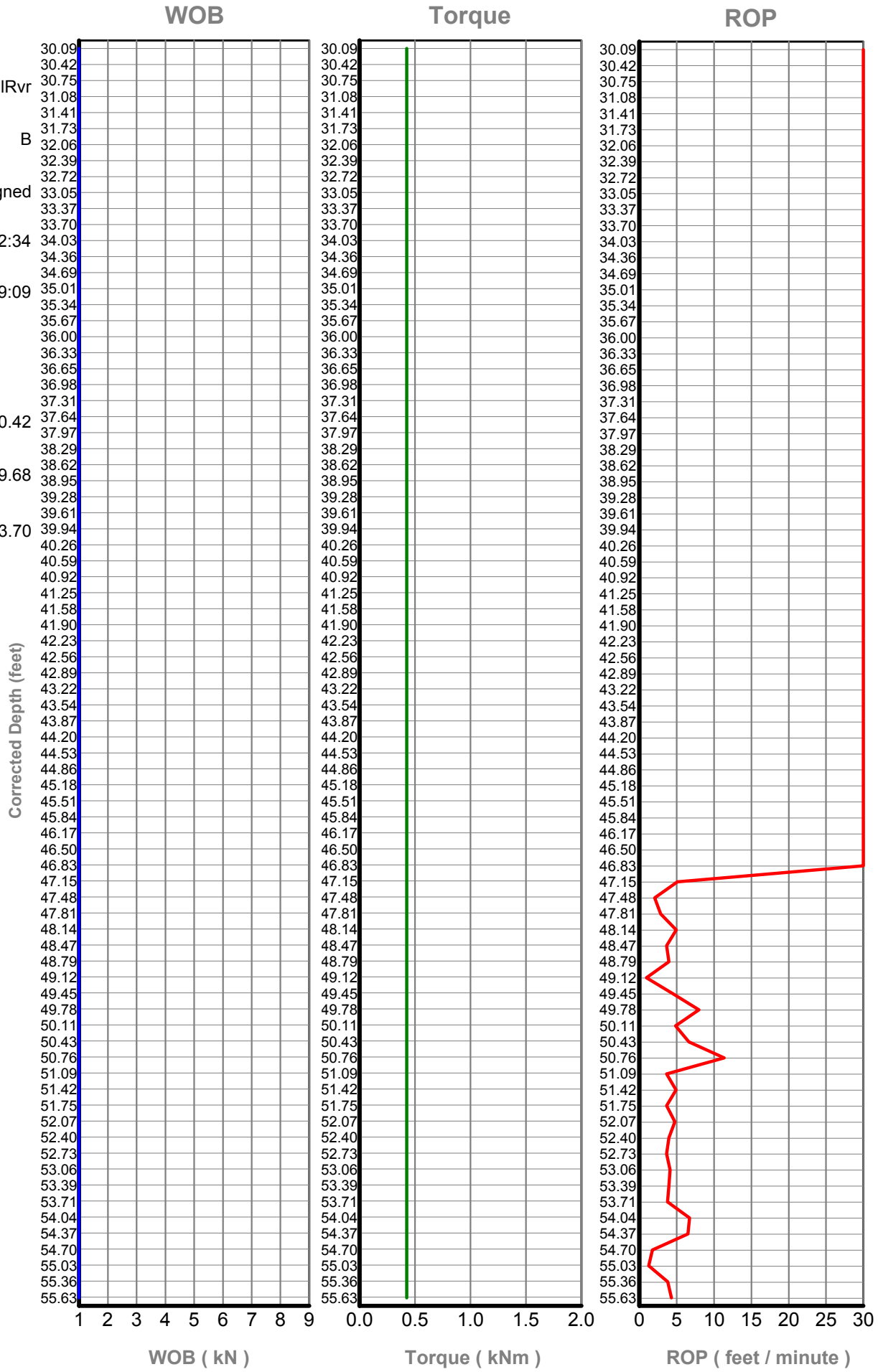
**End Date:**
4/16/2015 14:19:09

**Operator Note:**
'3.7 4 b Auto Complete'

**Northing:**
371,460.42

**Easting:**
260,029.68

**Tide (feet):**
3.70



## Hole: A25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:47:36 | 35.43 | 30.13 | 1,171 | 2.02 | 0.35 | 64.0 |
| 4/17/2015 10:47:36 | 35.76 | 30.46 | 1,168 | 2.01 | 0.35 | 63.9 |
| 4/17/2015 10:47:36 | 36.09 | 30.79 | 1,168 | 2.01 | 0.35 | 63.9 |
| 4/17/2015 10:47:36 | 36.42 | 31.12 | 1,171 | 2.03 | 0.35 | 64.0 |
| 4/17/2015 10:47:37 | 36.75 | 31.45 | 1,168 | 2.00 | 0.35 | 63.9 |
| 4/17/2015 10:47:38 | 37.07 | 31.77 | 1,168 | 2.00 | 0.35 | 63.9 |
| 4/17/2015 10:47:37 | 37.40 | 32.10 | 1,141 | 2.02 | 0.35 | 62.4 |
| 4/17/2015 10:47:38 | 37.73 | 32.43 | 1,141 | 2.02 | 0.35 | 62.4 |
| 4/17/2015 10:47:38 | 38.06 | 32.76 | 1,141 | 2.01 | 0.35 | 62.4 |
| 4/17/2015 10:47:39 | 38.39 | 33.09 | 1,157 | 2.03 | 0.35 | 63.3 |
| 4/17/2015 10:47:39 | 38.71 | 33.41 | 1,157 | 2.03 | 0.35 | 63.3 |
| 4/17/2015 10:47:39 | 39.04 | 33.74 | 1,160 | 2.01 | 0.35 | 63.4 |
| 4/17/2015 10:47:40 | 39.37 | 34.07 | 1,160 | 2.01 | 0.35 | 63.4 |
| 4/17/2015 10:47:40 | 39.70 | 34.40 | 1,164 | 2.02 | 0.34 | 63.6 |
| 4/17/2015 10:47:40 | 40.03 | 34.73 | 1,154 | 2.00 | 0.35 | 63.1 |
| 4/17/2015 10:47:41 | 40.35 | 35.05 | 1,154 | 2.00 | 0.35 | 63.1 |
| 4/17/2015 10:47:41 | 40.68 | 35.38 | 1,181 | 2.02 | 0.35 | 64.6 |
| 4/17/2015 10:47:41 | 41.01 | 35.71 | 1,181 | 2.02 | 0.35 | 64.6 |
| 4/17/2015 10:47:41 | 41.34 | 36.04 | 1,165 | 2.00 | 0.35 | 63.7 |
| 4/17/2015 10:47:42 | 41.67 | 36.37 | 1,165 | 2.00 | 0.35 | 63.7 |
| 4/17/2015 10:47:42 | 41.99 | 36.69 | 1,165 | 2.01 | 0.35 | 63.7 |
| 4/17/2015 10:47:42 | 42.32 | 37.02 | 1,158 | 2.02 | 0.34 | 63.3 |
| 4/17/2015 10:47:43 | 42.65 | 37.35 | 1,158 | 2.02 | 0.34 | 63.3 |
| 4/17/2015 10:47:43 | 42.98 | 37.68 | 1,171 | 2.00 | 0.35 | 64.0 |
| 4/17/2015 10:47:43 | 43.31 | 38.01 | 1,171 | 2.00 | 0.35 | 64.0 |
| 4/17/2015 10:47:43 | 43.64 | 38.34 | 1,171 | 2.02 | 0.35 | 64.0 |
| 4/17/2015 10:47:44 | 43.96 | 38.66 | 1,177 | 2.00 | 0.35 | 64.3 |
| 4/17/2015 10:47:44 | 44.29 | 38.99 | 1,177 | 2.00 | 0.35 | 64.3 |
| 4/17/2015 10:47:44 | 44.62 | 39.32 | 1,174 | 2.01 | 0.35 | 64.2 |
| 4/17/2015 10:47:45 | 44.95 | 39.65 | 1,174 | 2.01 | 0.35 | 64.2 |
| 4/17/2015 10:47:45 | 45.28 | 39.98 | 1,177 | 2.02 | 0.35 | 64.3 |
| 4/17/2015 10:47:45 | 45.60 | 40.30 | 1,177 | 2.02 | 0.35 | 64.3 |
| 4/17/2015 10:47:45 | 45.93 | 40.63 | 1,174 | 2.00 | 0.34 | 64.2 |
| 4/17/2015 10:47:46 | 46.26 | 40.96 | 1,171 | 1.98 | 0.35 | 64.0 |
| 4/17/2015 10:47:46 | 46.59 | 41.29 | 1,171 | 1.98 | 0.35 | 64.0 |
| 4/17/2015 10:47:46 | 46.92 | 41.62 | 1,161 | 2.00 | 0.35 | 63.5 |
| 4/17/2015 10:47:47 | 47.24 | 41.94 | 1,161 | 2.00 | 0.35 | 63.5 |
| 4/17/2015 10:47:47 | 47.57 | 42.27 | 1,174 | 1.99 | 0.35 | 64.2 |
| 4/17/2015 10:47:47 | 47.90 | 42.60 | 1,172 | 2.00 | 0.28 | 64.1 |
| 4/17/2015 10:47:48 | 48.23 | 42.93 | 1,172 | 2.00 | 0.28 | 64.1 |
| 4/17/2015 10:47:48 | 48.56 | 43.26 | 1,156 | 1.99 | 0.36 | 63.2 |
| 4/17/2015 10:47:48 | 48.88 | 43.58 | 1,134 | 2.04 | 0.38 | 62.0 |
| 4/17/2015 10:47:49 | 49.21 | 43.91 | 1,134 | 2.04 | 0.38 | 62.0 |
| 4/17/2015 10:47:49 | 49.54 | 44.24 | 1,073 | 2.47 | 0.39 | 58.7 |
| 4/17/2015 10:47:51 | 49.87 | 44.57 | 601 | 2.34 | 0.38 | 32.9 |
| 4/17/2015 10:47:58 | 50.20 | 44.90 | 6 | 3.48 | 0.44 | 0.3 |
| 4/17/2015 10:48:00 | 50.53 | 45.23 | 233 | 4.28 | 0.50 | 12.7 |
| 4/17/2015 10:48:04 | 50.85 | 45.55 | 51 | 3.71 | 0.46 | 2.8 |
| 4/17/2015 10:48:06 | 51.18 | 45.88 | 142 | 3.99 | 0.48 | 7.7 |
| 4/17/2015 10:48:10 | 51.51 | 46.21 | 98 | 4.05 | 0.49 | 5.4 |
| 4/17/2015 10:48:14 | 51.84 | 46.54 | 82 | 4.20 | 0.50 | 4.5 |
| 4/17/2015 10:48:21 | 52.17 | 46.87 | 52 | 4.29 | 0.50 | 2.8 |
| 4/17/2015 10:48:25 | 52.49 | 47.19 | 82 | 4.00 | 0.49 | 4.5 |
| 4/17/2015 10:48:29 | 52.82 | 47.52 | 71 | 4.15 | 0.49 | 3.9 |
| 4/17/2015 10:48:34 | 53.15 | 47.85 | 75 | 4.01 | 0.49 | 4.1 |
| 4/17/2015 10:48:39 | 53.48 | 48.18 | 81 | 3.96 | 0.49 | 4.4 |
| 4/17/2015 10:48:43 | 53.81 | 48.51 | 86 | 4.07 | 0.49 | 4.7 |
| 4/17/2015 10:48:45 | 54.13 | 48.83 | 87 | 3.69 | 0.39 | 4.8 |
| 4/17/2015 10:48:47 | 54.46 | 49.16 | 237 | 3.60 | 0.25 | 12.9 |
| 4/17/2015 10:48:49 | 54.79 | 49.49 | 176 | 3.56 | 0.41 | 9.6 |
| 4/17/2015 10:48:49 | 55.12 | 49.82 | 243 | 3.66 | 0.41 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:48:50 | 55.45 | 50.15 | 280 | 3.62 | 0.42 | 15.3 |
| 4/17/2015 | 10:48:52 | 55.77 | 50.47 | 387 | 3.70 | 0.40 | 21.2 |
| 4/17/2015 | 10:48:53 | 56.10 | 50.80 | 350 | 3.75 | 0.41 | 19.1 |
| 4/17/2015 | 10:48:54 | 56.43 | 51.13 | 322 | 3.72 | 0.40 | 17.6 |
| 4/17/2015 | 10:48:55 | 56.76 | 51.46 | 305 | 3.80 | 0.40 | 16.7 |
| 4/17/2015 | 10:48:57 | 57.09 | 51.79 | 263 | 3.71 | 0.38 | 14.4 |
| 4/17/2015 | 10:48:58 | 57.41 | 52.11 | 235 | 3.71 | 0.41 | 12.9 |
| 4/17/2015 | 10:48:59 | 57.74 | 52.44 | 257 | 3.77 | 0.43 | 14.0 |
| 4/17/2015 | 10:49:01 | 58.07 | 52.77 | 255 | 3.81 | 0.42 | 14.0 |
| 4/17/2015 | 10:49:03 | 58.40 | 53.10 | 233 | 3.78 | 0.43 | 12.7 |
| 4/17/2015 | 10:49:04 | 58.73 | 53.43 | 227 | 3.80 | 0.41 | 12.4 |
| 4/17/2015 | 10:49:06 | 59.06 | 53.76 | 193 | 3.79 | 0.41 | 10.5 |
| 4/17/2015 | 10:49:08 | 59.38 | 54.08 | 195 | 3.84 | 0.42 | 10.7 |
| 4/17/2015 | 10:49:18 | 59.68 | 54.38 | 50 | 4.05 | 0.45 | 2.7 |

## A25 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:45:35

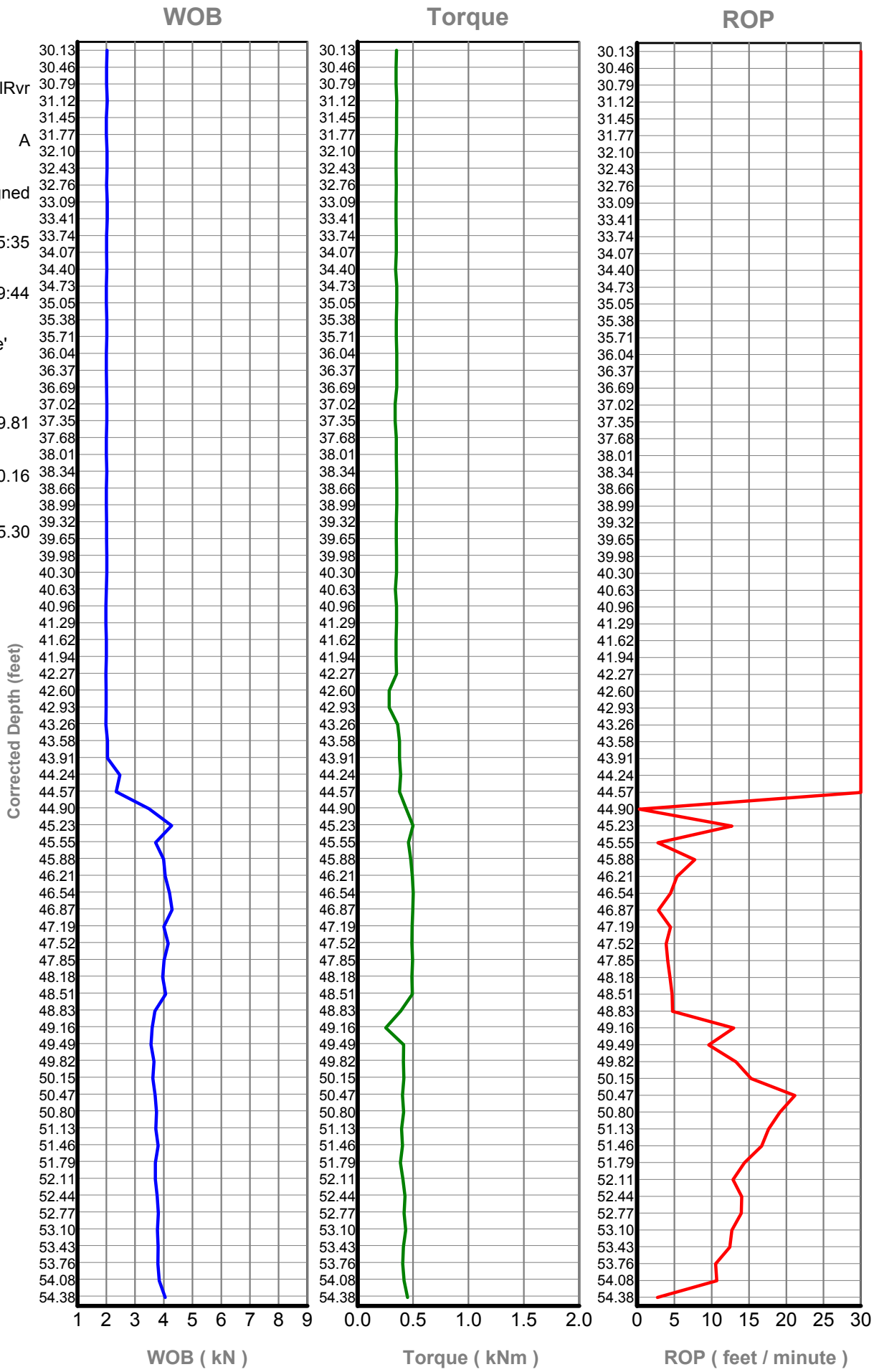
**End Date:**
4/17/2015 10:49:44

**Operator Note:**
'5.3 4.5 a Auto Complete'

**Northing:**
371,419.81

**Easting:**
259,060.16

**Tide (feet):**
5.30



## Hole: A26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:57:39 | 35.43 | 30.23 | 887 | 0.29 | 0.42 | 48.5 |
| 4/17/2015 10:57:40 | 35.76 | 30.56 | 875 | 0.29 | 0.42 | 47.8 |
| 4/17/2015 10:57:40 | 36.09 | 30.89 | 870 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:57:41 | 36.42 | 31.22 | 870 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:57:41 | 36.75 | 31.55 | 870 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:57:41 | 37.07 | 31.87 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:42 | 37.40 | 32.20 | 875 | 0.29 | 0.42 | 47.9 |
| 4/17/2015 10:57:42 | 37.73 | 32.53 | 875 | 0.29 | 0.42 | 47.9 |
| 4/17/2015 10:57:42 | 38.06 | 32.86 | 878 | 0.29 | 0.42 | 48.0 |
| 4/17/2015 10:57:43 | 38.39 | 33.19 | 885 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:43 | 38.71 | 33.51 | 893 | 0.29 | 0.42 | 48.8 |
| 4/17/2015 10:57:44 | 39.04 | 33.84 | 884 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:44 | 39.37 | 34.17 | 884 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:44 | 39.70 | 34.50 | 875 | 0.29 | 0.42 | 47.8 |
| 4/17/2015 10:57:45 | 40.03 | 34.83 | 875 | 0.29 | 0.42 | 47.8 |
| 4/17/2015 10:57:45 | 40.35 | 35.15 | 880 | 0.29 | 0.42 | 48.1 |
| 4/17/2015 10:57:46 | 40.68 | 35.48 | 885 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:46 | 41.01 | 35.81 | 885 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:46 | 41.34 | 36.14 | 877 | 0.29 | 0.42 | 48.0 |
| 4/17/2015 10:57:47 | 41.67 | 36.47 | 874 | 0.29 | 0.42 | 47.8 |
| 4/17/2015 10:57:47 | 41.99 | 36.79 | 886 | 0.29 | 0.42 | 48.5 |
| 4/17/2015 10:57:48 | 42.32 | 37.12 | 886 | 0.29 | 0.42 | 48.5 |
| 4/17/2015 10:57:48 | 42.65 | 37.45 | 878 | 0.29 | 0.42 | 48.0 |
| 4/17/2015 10:57:48 | 42.98 | 37.78 | 881 | 0.29 | 0.42 | 48.2 |
| 4/17/2015 10:57:49 | 43.31 | 38.11 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:50 | 43.64 | 38.44 | 878 | 0.29 | 0.42 | 48.0 |
| 4/17/2015 10:57:50 | 43.96 | 38.76 | 878 | 0.29 | 0.42 | 48.0 |
| 4/17/2015 10:57:50 | 44.29 | 39.09 | 876 | 0.29 | 0.42 | 47.9 |
| 4/17/2015 10:57:51 | 44.62 | 39.42 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:51 | 44.95 | 39.75 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:52 | 45.28 | 40.08 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:52 | 45.60 | 40.40 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:52 | 45.93 | 40.73 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:53 | 46.26 | 41.06 | 879 | 0.29 | 0.42 | 48.1 |
| 4/17/2015 10:57:53 | 46.59 | 41.39 | 882 | 0.29 | 0.42 | 48.2 |
| 4/17/2015 10:57:54 | 46.92 | 41.72 | 882 | 0.29 | 0.42 | 48.2 |
| 4/17/2015 10:57:54 | 47.24 | 42.04 | 881 | 0.29 | 0.42 | 48.2 |
| 4/17/2015 10:57:54 | 47.57 | 42.37 | 882 | 0.29 | 0.42 | 48.2 |
| 4/17/2015 10:57:55 | 47.90 | 42.70 | 884 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:55 | 48.23 | 43.03 | 884 | 0.29 | 0.42 | 48.4 |
| 4/17/2015 10:57:55 | 48.56 | 43.36 | 890 | 0.29 | 0.42 | 48.6 |
| 4/17/2015 10:57:56 | 48.88 | 43.68 | 884 | 0.29 | 0.42 | 48.3 |
| 4/17/2015 10:57:56 | 49.21 | 44.01 | 879 | 0.29 | 0.42 | 48.1 |
| 4/17/2015 10:57:57 | 49.54 | 44.34 | 871 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:57:57 | 49.87 | 44.67 | 871 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:57:57 | 50.20 | 45.00 | 871 | 0.29 | 0.42 | 47.6 |
| 4/17/2015 10:58:09 | 50.53 | 45.33 | 27 | 0.29 | 0.42 | 1.5 |
| 4/17/2015 10:58:11 | 50.85 | 45.65 | 217 | 0.29 | 0.42 | 11.9 |
| 4/17/2015 10:58:12 | 51.18 | 45.98 | 204 | 0.29 | 0.42 | 11.2 |
| 4/17/2015 10:58:13 | 51.51 | 46.31 | 264 | 0.29 | 0.42 | 14.4 |
| 4/17/2015 10:58:17 | 51.84 | 46.64 | 72 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 10:58:29 | 52.17 | 46.97 | 52 | 0.29 | 0.42 | 2.9 |
| 4/17/2015 10:58:35 | 52.49 | 47.29 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 10:58:38 | 52.82 | 47.62 | 110 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 10:58:41 | 53.15 | 47.95 | 157 | 0.29 | 0.42 | 8.6 |
| 4/17/2015 10:58:43 | 53.48 | 48.28 | 140 | 0.29 | 0.42 | 7.6 |
| 4/17/2015 10:58:46 | 53.81 | 48.61 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 10:58:49 | 54.13 | 48.93 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 10:59:00 | 54.46 | 49.26 | 70 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 10:59:03 | 54.79 | 49.59 | 151 | 0.29 | 0.42 | 8.3 |
| 4/17/2015 10:59:05 | 55.12 | 49.92 | 135 | 0.29 | 0.42 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:59:07 | 55.45 | 50.25 | 167 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 | 10:59:09 | 55.77 | 50.57 | 182 | 0.29 | 0.42 | 9.9 |
| 4/17/2015 | 10:59:11 | 56.10 | 50.90 | 163 | 0.29 | 0.42 | 8.9 |
| 4/17/2015 | 10:59:14 | 56.43 | 51.23 | 163 | 0.29 | 0.42 | 8.9 |
| 4/17/2015 | 10:59:16 | 56.76 | 51.56 | 145 | 0.29 | 0.42 | 8.0 |
| 4/17/2015 | 10:59:19 | 57.09 | 51.89 | 119 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 10:59:22 | 57.41 | 52.21 | 131 | 0.29 | 0.42 | 7.2 |
| 4/17/2015 | 10:59:25 | 57.74 | 52.54 | 137 | 0.29 | 0.42 | 7.5 |
| 4/17/2015 | 10:59:26 | 58.07 | 52.87 | 148 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 | 10:59:27 | 58.40 | 53.20 | 175 | 0.29 | 0.42 | 9.6 |
| 4/17/2015 | 10:59:29 | 58.73 | 53.53 | 234 | 0.29 | 0.42 | 12.8 |
| 4/17/2015 | 10:59:32 | 59.06 | 53.86 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 10:59:36 | 59.38 | 54.18 | 96 | 0.29 | 0.42 | 5.2 |
| 4/17/2015 | 10:59:40 | 59.71 | 54.51 | 85 | 0.29 | 0.42 | 4.7 |
| 4/17/2015 | 10:59:44 | 60.04 | 54.84 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 | 10:59:51 | 60.32 | 55.12 | 29 | 0.29 | 0.42 | 1.6 |

## A26 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:45:00

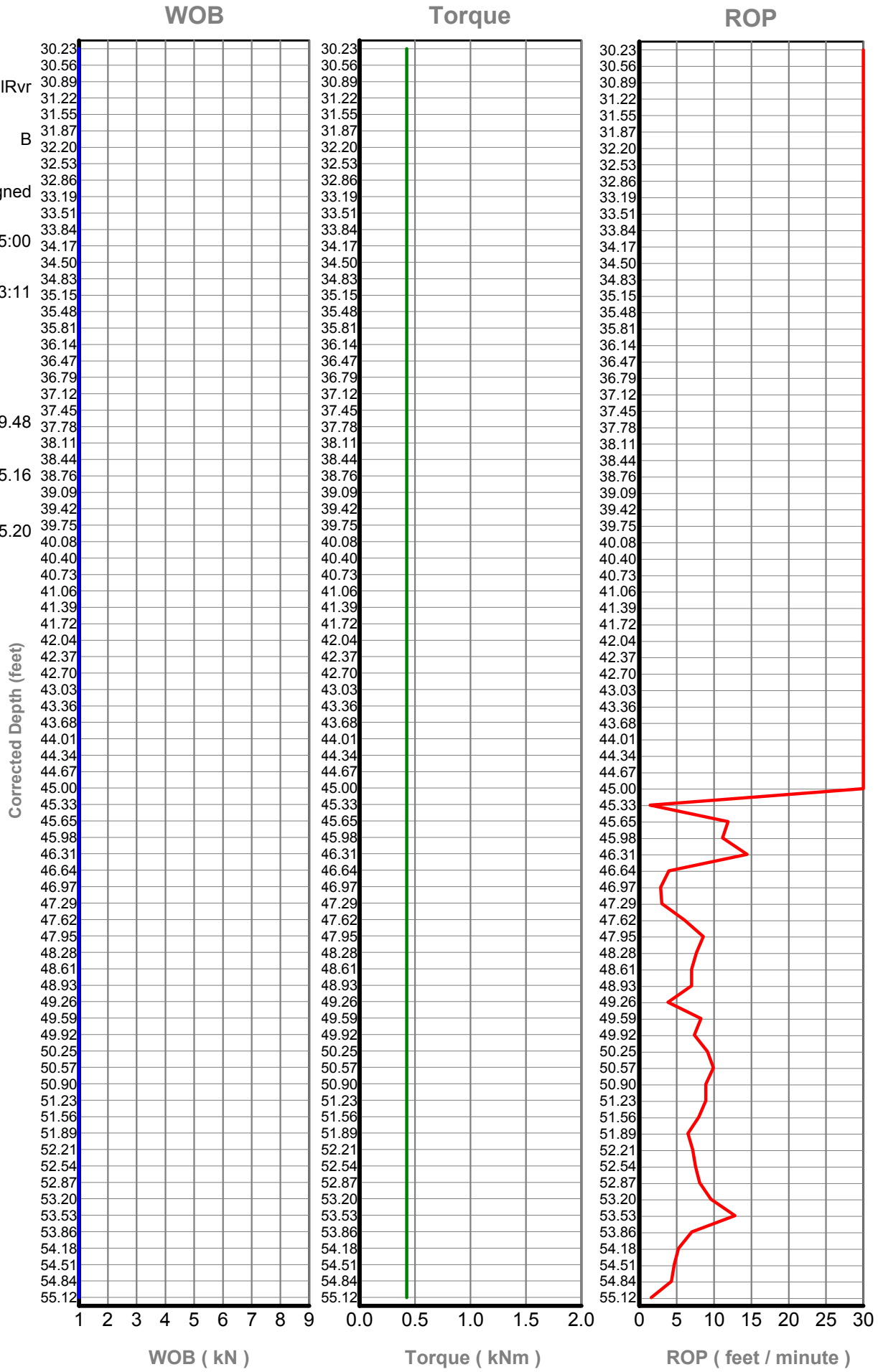
**End Date:**
4/17/2015 11:03:11

**Operator Note:**
'5.2 5.3 b change coupling No rock'

**Northing:**
371,419.48

**Easting:**
259,135.16

**Tide (feet):**
5.20



## Hole: A27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:50:28 | 35.43 | 30.13 | 604 | 2.14 | 0.29 | 33.0 |
| 4/17/2015 10:50:29 | 35.76 | 30.46 | 617 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 10:50:29 | 36.09 | 30.79 | 617 | 2.15 | 0.29 | 33.8 |
| 4/17/2015 10:50:30 | 36.42 | 31.12 | 610 | 2.15 | 0.29 | 33.4 |
| 4/17/2015 10:50:31 | 36.75 | 31.45 | 613 | 2.15 | 0.29 | 33.5 |
| 4/17/2015 10:50:31 | 37.07 | 31.77 | 610 | 2.15 | 0.29 | 33.4 |
| 4/17/2015 10:50:32 | 37.40 | 32.10 | 617 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 10:50:32 | 37.73 | 32.43 | 613 | 2.15 | 0.29 | 33.5 |
| 4/17/2015 10:50:33 | 38.06 | 32.76 | 616 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 10:50:33 | 38.39 | 33.09 | 616 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 10:50:34 | 38.71 | 33.41 | 613 | 2.16 | 0.29 | 33.5 |
| 4/17/2015 10:50:34 | 39.04 | 33.74 | 606 | 2.16 | 0.29 | 33.1 |
| 4/17/2015 10:50:35 | 39.37 | 34.07 | 610 | 2.15 | 0.29 | 33.4 |
| 4/17/2015 10:50:36 | 39.70 | 34.40 | 606 | 2.16 | 0.29 | 33.2 |
| 4/17/2015 10:50:36 | 40.03 | 34.73 | 606 | 2.17 | 0.29 | 33.2 |
| 4/17/2015 10:50:37 | 40.35 | 35.05 | 610 | 2.14 | 0.29 | 33.4 |
| 4/17/2015 10:50:37 | 40.68 | 35.38 | 607 | 2.16 | 0.29 | 33.2 |
| 4/17/2015 10:50:38 | 41.01 | 35.71 | 607 | 2.17 | 0.29 | 33.2 |
| 4/17/2015 10:50:39 | 41.34 | 36.04 | 604 | 2.16 | 0.29 | 33.0 |
| 4/17/2015 10:50:39 | 41.67 | 36.37 | 611 | 2.16 | 0.29 | 33.4 |
| 4/17/2015 10:50:40 | 41.99 | 36.69 | 607 | 2.14 | 0.29 | 33.2 |
| 4/17/2015 10:50:41 | 42.32 | 37.02 | 607 | 2.15 | 0.29 | 33.2 |
| 4/17/2015 10:50:41 | 42.65 | 37.35 | 611 | 2.15 | 0.29 | 33.4 |
| 4/17/2015 10:50:42 | 42.98 | 37.68 | 607 | 2.17 | 0.28 | 33.2 |
| 4/17/2015 10:50:42 | 43.31 | 38.01 | 607 | 2.15 | 0.29 | 33.2 |
| 4/17/2015 10:50:43 | 43.64 | 38.34 | 604 | 2.16 | 0.29 | 33.0 |
| 4/17/2015 10:50:43 | 43.96 | 38.66 | 606 | 2.16 | 0.29 | 33.1 |
| 4/17/2015 10:50:44 | 44.29 | 38.99 | 610 | 2.17 | 0.29 | 33.4 |
| 4/17/2015 10:50:45 | 44.62 | 39.32 | 598 | 2.30 | 0.29 | 32.7 |
| 4/17/2015 10:51:13 | 44.95 | 39.65 | 89 | 2.07 | 1.21 | 4.9 |
| 4/17/2015 10:51:15 | 45.28 | 39.98 | 210 | 2.21 | 1.33 | 11.5 |
| 4/17/2015 10:51:16 | 45.60 | 40.30 | 260 | 2.23 | 1.19 | 14.2 |
| 4/17/2015 10:51:17 | 45.93 | 40.63 | 324 | 2.23 | 1.18 | 17.7 |
| 4/17/2015 10:51:18 | 46.26 | 40.96 | 296 | 2.23 | 1.17 | 16.2 |
| 4/17/2015 10:51:19 | 46.59 | 41.29 | 299 | 2.22 | 1.18 | 16.3 |
| 4/17/2015 10:51:21 | 46.92 | 41.62 | 335 | 2.23 | 1.19 | 18.3 |
| 4/17/2015 10:51:24 | 47.24 | 41.94 | 86 | 2.31 | 1.30 | 4.7 |
| 4/17/2015 10:51:32 | 47.57 | 42.27 | 17 | 2.30 | 1.27 | 1.0 |
| 4/17/2015 10:51:35 | 47.90 | 42.60 | 115 | 2.36 | 1.35 | 6.3 |
| 4/17/2015 10:51:38 | 48.23 | 42.93 | 102 | 2.36 | 1.18 | 5.6 |
| 4/17/2015 10:52:04 | 48.56 | 43.26 | 0 | 2.32 | 1.23 | 0.0 |
| 4/17/2015 10:52:10 | 48.88 | 43.58 | 54 | 2.36 | 1.16 | 3.0 |
| 4/17/2015 10:52:13 | 49.21 | 43.91 | 119 | 2.39 | 1.17 | 6.5 |
| 4/17/2015 10:52:18 | 49.54 | 44.24 | 72 | 2.38 | 1.21 | 3.9 |
| 4/17/2015 10:52:23 | 49.87 | 44.57 | 75 | 2.39 | 1.23 | 4.1 |
| 4/17/2015 10:52:27 | 50.20 | 44.90 | 87 | 2.40 | 1.22 | 4.8 |
| 4/17/2015 10:52:32 | 50.53 | 45.23 | 66 | 2.38 | 1.17 | 3.6 |
| 4/17/2015 10:52:37 | 50.85 | 45.55 | 72 | 2.41 | 1.20 | 4.0 |
| 4/17/2015 10:52:42 | 51.18 | 45.88 | 69 | 2.40 | 1.18 | 3.8 |
| 4/17/2015 10:52:47 | 51.51 | 46.21 | 70 | 2.40 | 1.18 | 3.8 |
| 4/17/2015 10:53:18 | 51.72 | 46.42 | 49 | 2.32 | 1.26 | 2.7 |

## A27 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:49:14

**End Date:**
4/17/2015 11:03:44

**Operator Note:**
'5.3 Auto Complete'

**Northing:**
371,419.15

**Easting:**
259,210.16

**Tide (feet):**
5.30



## Hole: A28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:19:18 | 35.11 | 30.11 | 1,200 | 1.76 | 0.35 | 65.6 |
| 4/17/2015 10:19:18 | 35.43 | 30.43 | 1,197 | 1.74 | 0.36 | 65.4 |
| 4/17/2015 10:19:18 | 35.76 | 30.76 | 1,197 | 1.74 | 0.36 | 65.4 |
| 4/17/2015 10:19:18 | 36.09 | 31.09 | 1,191 | 1.73 | 0.35 | 65.1 |
| 4/17/2015 10:19:19 | 36.42 | 31.42 | 1,191 | 1.73 | 0.35 | 65.1 |
| 4/17/2015 10:19:19 | 36.75 | 31.75 | 1,194 | 1.74 | 0.34 | 65.3 |
| 4/17/2015 10:19:19 | 37.07 | 32.07 | 1,188 | 1.72 | 0.35 | 65.0 |
| 4/17/2015 10:19:20 | 37.40 | 32.40 | 1,188 | 1.72 | 0.35 | 65.0 |
| 4/17/2015 10:19:20 | 37.73 | 32.73 | 1,184 | 1.74 | 0.35 | 64.7 |
| 4/17/2015 10:19:20 | 38.06 | 33.06 | 1,184 | 1.74 | 0.35 | 64.7 |
| 4/17/2015 10:19:20 | 38.39 | 33.39 | 1,184 | 1.73 | 0.36 | 64.8 |
| 4/17/2015 10:19:21 | 38.71 | 33.71 | 1,184 | 1.73 | 0.36 | 64.8 |
| 4/17/2015 10:19:21 | 39.04 | 34.04 | 1,197 | 1.72 | 0.34 | 65.5 |
| 4/17/2015 10:19:21 | 39.37 | 34.37 | 1,194 | 1.74 | 0.35 | 65.3 |
| 4/17/2015 10:19:22 | 39.70 | 34.70 | 1,194 | 1.74 | 0.35 | 65.3 |
| 4/17/2015 10:19:22 | 40.03 | 35.03 | 1,191 | 1.72 | 0.36 | 65.1 |
| 4/17/2015 10:19:23 | 40.35 | 35.35 | 1,191 | 1.72 | 0.36 | 65.1 |
| 4/17/2015 10:19:23 | 40.68 | 35.68 | 1,192 | 1.74 | 0.35 | 65.2 |
| 4/17/2015 10:19:23 | 41.01 | 36.01 | 1,188 | 1.73 | 0.35 | 65.0 |
| 4/17/2015 10:19:24 | 41.34 | 36.34 | 1,188 | 1.73 | 0.35 | 65.0 |
| 4/17/2015 10:19:24 | 41.67 | 36.67 | 1,185 | 1.72 | 0.34 | 64.8 |
| 4/17/2015 10:19:24 | 41.99 | 36.99 | 1,185 | 1.72 | 0.34 | 64.8 |
| 4/17/2015 10:19:24 | 42.32 | 37.32 | 1,192 | 1.74 | 0.35 | 65.2 |
| 4/17/2015 10:19:25 | 42.65 | 37.65 | 1,192 | 1.74 | 0.35 | 65.2 |
| 4/17/2015 10:19:25 | 42.98 | 37.98 | 1,182 | 1.71 | 0.36 | 64.6 |
| 4/17/2015 10:19:25 | 43.31 | 38.31 | 1,191 | 1.71 | 0.05 | 65.1 |
| 4/17/2015 10:19:40 | 43.64 | 38.64 | 12 | 1.59 | 0.35 | 0.6 |
| 4/17/2015 10:19:40 | 43.96 | 38.96 | 209 | 1.69 | 0.35 | 11.4 |
| 4/17/2015 10:19:41 | 44.29 | 39.29 | 209 | 1.69 | 0.35 | 11.4 |
| 4/17/2015 10:19:41 | 44.62 | 39.62 | 444 | 1.68 | 0.35 | 24.3 |
| 4/17/2015 10:19:41 | 44.95 | 39.95 | 444 | 1.68 | 0.35 | 24.3 |
| 4/17/2015 10:19:41 | 45.28 | 40.28 | 678 | 1.75 | 0.35 | 37.1 |
| 4/17/2015 10:19:42 | 45.60 | 40.60 | 678 | 1.75 | 0.35 | 37.1 |
| 4/17/2015 10:19:42 | 45.93 | 40.93 | 916 | 1.70 | 0.35 | 50.1 |
| 4/17/2015 10:19:43 | 46.26 | 41.26 | 1,142 | 1.68 | 0.35 | 62.5 |
| 4/17/2015 10:19:43 | 46.59 | 41.59 | 1,142 | 1.68 | 0.35 | 62.5 |
| 4/17/2015 10:19:43 | 46.92 | 41.92 | 1,179 | 1.72 | 0.34 | 64.5 |
| 4/17/2015 10:19:44 | 47.24 | 42.24 | 1,179 | 1.72 | 0.34 | 64.5 |
| 4/17/2015 10:19:44 | 47.57 | 42.57 | 1,181 | 1.69 | 0.36 | 64.6 |
| 4/17/2015 10:19:44 | 47.90 | 42.90 | 1,181 | 1.69 | 0.36 | 64.6 |
| 4/17/2015 10:19:44 | 48.23 | 43.23 | 1,191 | 1.72 | 0.35 | 65.1 |
| 4/17/2015 10:19:45 | 48.56 | 43.56 | 1,188 | 1.71 | 0.34 | 65.0 |
| 4/17/2015 10:19:45 | 48.88 | 43.88 | 1,188 | 1.71 | 0.34 | 65.0 |
| 4/17/2015 10:19:45 | 49.21 | 44.21 | 1,194 | 1.70 | 0.36 | 65.3 |
| 4/17/2015 10:19:46 | 49.54 | 44.54 | 1,194 | 1.70 | 0.36 | 65.3 |
| 4/17/2015 10:19:46 | 49.87 | 44.87 | 1,197 | 1.90 | 0.37 | 65.4 |
| 4/17/2015 10:20:40 | 50.20 | 45.20 | 3 | 2.10 | 0.37 | 0.2 |
| 4/17/2015 10:20:41 | 50.37 | 45.37 | 66 | 2.59 | 0.14 | 3.6 |
| 4/17/2015 10:24:55 | 50.53 | 45.53 | 108 | 3.77 | 0.58 | 5.9 |
| 4/17/2015 10:25:00 | 50.85 | 45.85 | 69 | 3.73 | 0.59 | 3.8 |
| 4/17/2015 10:25:06 | 51.18 | 46.18 | 54 | 3.85 | 0.59 | 3.0 |
| 4/17/2015 10:25:10 | 51.51 | 46.51 | 91 | 4.03 | 0.54 | 5.0 |
| 4/17/2015 10:25:13 | 51.84 | 46.84 | 135 | 3.98 | 0.51 | 7.4 |
| 4/17/2015 10:25:16 | 52.17 | 47.17 | 131 | 4.28 | 0.52 | 7.2 |
| 4/17/2015 10:25:19 | 52.49 | 47.49 | 113 | 4.26 | 0.54 | 6.2 |
| 4/17/2015 10:25:22 | 52.82 | 47.82 | 107 | 4.28 | 0.52 | 5.8 |
| 4/17/2015 10:25:25 | 53.15 | 48.15 | 133 | 4.40 | 0.52 | 7.3 |
| 4/17/2015 10:25:28 | 53.48 | 48.48 | 150 | 4.66 | 0.53 | 8.2 |
| 4/17/2015 10:25:30 | 53.81 | 48.81 | 153 | 4.62 | 0.52 | 8.4 |
| 4/17/2015 10:25:31 | 54.13 | 49.13 | 169 | 4.24 | 0.49 | 9.2 |
| 4/17/2015 10:25:32 | 54.46 | 49.46 | 225 | 4.12 | 0.48 | 12.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:25:33 | 54.79 | 49.79 | 289 | 3.90 | 0.46 | 15.8 |
| 4/17/2015 | 10:25:34 | 55.12 | 50.12 | 375 | 3.25 | 0.43 | 20.5 |
| 4/17/2015 | 10:25:35 | 55.45 | 50.45 | 459 | 2.96 | 0.41 | 25.1 |
| 4/17/2015 | 10:25:37 | 55.77 | 50.77 | 346 | 3.06 | 0.44 | 18.9 |
| 4/17/2015 | 10:25:37 | 56.10 | 51.10 | 372 | 3.01 | 0.42 | 20.3 |
| 4/17/2015 | 10:25:38 | 56.43 | 51.43 | 276 | 3.64 | 0.43 | 15.1 |
| 4/17/2015 | 10:25:39 | 56.76 | 51.76 | 423 | 3.92 | 0.47 | 23.1 |
| 4/17/2015 | 10:25:41 | 57.09 | 52.09 | 270 | 4.07 | 0.48 | 14.8 |
| 4/17/2015 | 10:25:42 | 57.41 | 52.41 | 286 | 3.07 | 0.44 | 15.6 |
| 4/17/2015 | 10:25:42 | 57.74 | 52.74 | 286 | 3.31 | 0.45 | 15.6 |
| 4/17/2015 | 10:25:44 | 58.07 | 53.07 | 278 | 3.65 | 0.42 | 15.2 |
| 4/17/2015 | 10:25:45 | 58.40 | 53.40 | 278 | 3.74 | 0.45 | 15.2 |
| 4/17/2015 | 10:25:46 | 58.73 | 53.73 | 296 | 3.33 | 0.46 | 16.2 |
| 4/17/2015 | 10:25:48 | 59.06 | 54.06 | 294 | 3.43 | 0.46 | 16.1 |
| 4/17/2015 | 10:25:49 | 59.38 | 54.38 | 273 | 3.48 | 0.45 | 14.9 |
| 4/17/2015 | 10:25:51 | 59.71 | 54.71 | 221 | 3.14 | 0.47 | 12.1 |
| 4/17/2015 | 10:25:51 | 59.78 | 54.78 | 221 | 3.14 | 0.47 | 12.1 |

## A28 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:22:31

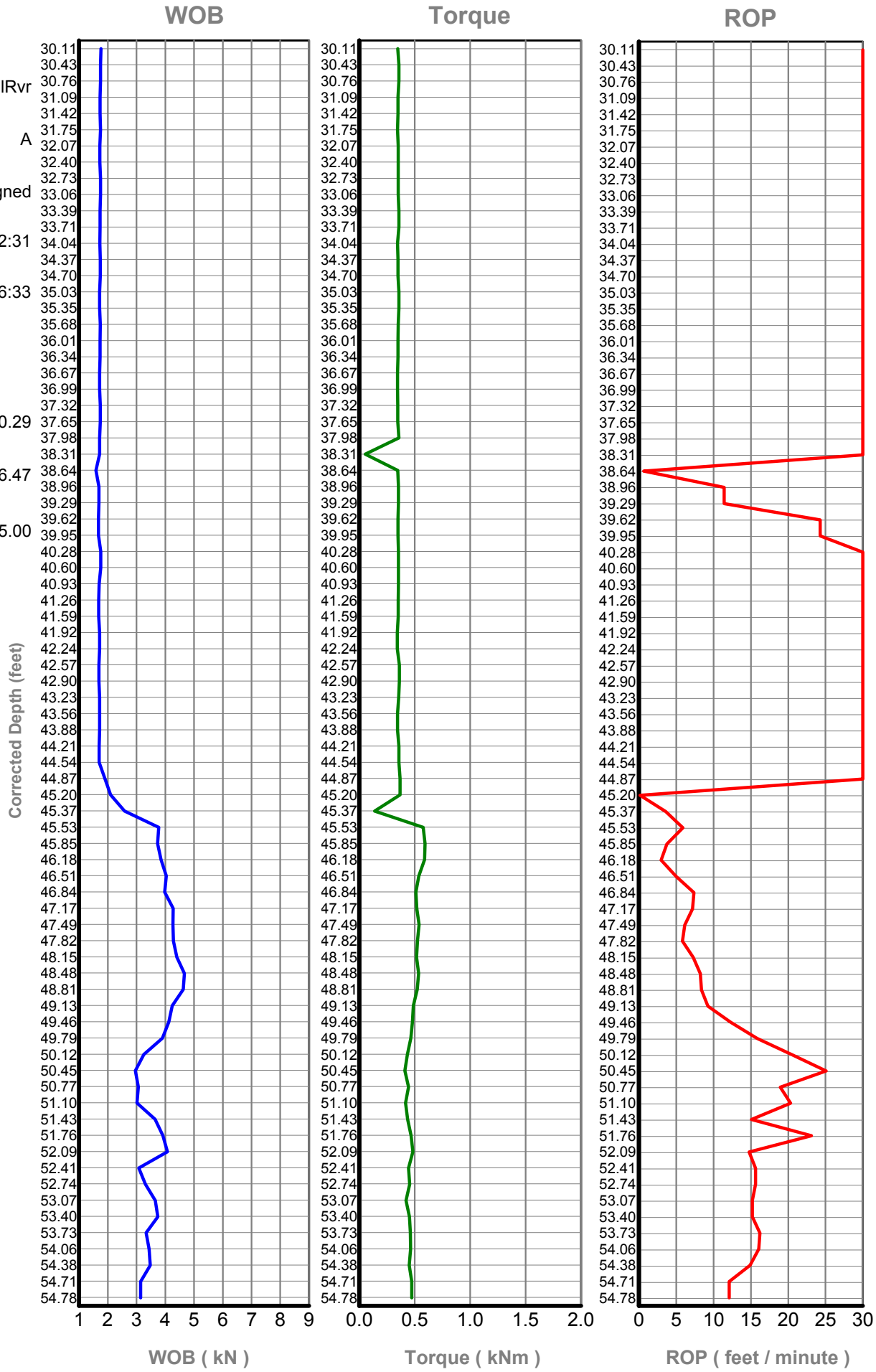
**End Date:**
4/17/2015 10:26:33

**Operator Note:**
'5 4.7 a 4.6 a Auto Complete'

**Northing:**
371,420.29

**Easting:**
259,286.47

**Tide (feet):**
5.00



## Hole: A29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:17:16 | 35.11 | 30.31 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 10:17:16 | 35.43 | 30.63 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 10:17:16 | 35.76 | 30.96 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 10:17:17 | 36.09 | 31.29 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:17 | 36.42 | 31.62 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:17 | 36.75 | 31.95 | 1,025 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:18 | 37.07 | 32.27 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:18 | 37.40 | 32.60 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:18 | 37.73 | 32.93 | 1,025 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:19 | 38.06 | 33.26 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 10:17:19 | 38.39 | 33.59 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 10:17:19 | 38.71 | 33.91 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 10:17:20 | 39.04 | 34.24 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 10:17:20 | 39.37 | 34.57 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:21 | 39.70 | 34.90 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:21 | 40.03 | 35.23 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 10:17:21 | 40.35 | 35.55 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:22 | 40.68 | 35.88 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:22 | 41.01 | 36.21 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:22 | 41.34 | 36.54 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:23 | 41.67 | 36.87 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:23 | 41.99 | 37.19 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:23 | 42.32 | 37.52 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:24 | 42.65 | 37.85 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:24 | 42.98 | 38.18 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 10:17:25 | 43.31 | 38.51 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 10:17:25 | 43.64 | 38.84 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 10:17:25 | 43.96 | 39.16 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 10:17:26 | 44.29 | 39.49 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 10:17:26 | 44.62 | 39.82 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 10:17:26 | 44.95 | 40.15 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 10:17:27 | 45.28 | 40.48 | 1,020 | 0.29 | 0.42 | 55.8 |
| 4/17/2015 10:17:27 | 45.60 | 40.80 | 1,020 | 0.29 | 0.42 | 55.8 |
| 4/17/2015 10:17:27 | 45.93 | 41.13 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 10:17:28 | 46.26 | 41.46 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:28 | 46.59 | 41.79 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:28 | 46.92 | 42.12 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 10:17:29 | 47.24 | 42.44 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:29 | 47.57 | 42.77 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:29 | 47.90 | 43.10 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:30 | 48.23 | 43.43 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/17/2015 10:17:30 | 48.56 | 43.76 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/17/2015 10:17:30 | 48.88 | 44.08 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 10:17:42 | 49.21 | 44.41 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 10:17:46 | 49.54 | 44.74 | 61 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 10:17:51 | 49.87 | 45.07 | 75 | 0.29 | 0.42 | 4.1 |
| 4/17/2015 10:17:56 | 50.20 | 45.40 | 93 | 0.29 | 0.42 | 5.1 |
| 4/17/2015 10:18:10 | 50.53 | 45.73 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 10:18:13 | 50.85 | 46.05 | 111 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 10:18:16 | 51.18 | 46.38 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 10:18:19 | 51.51 | 46.71 | 116 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 10:18:23 | 51.84 | 47.04 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 10:18:26 | 52.17 | 47.37 | 110 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 10:18:30 | 52.49 | 47.69 | 105 | 0.29 | 0.42 | 5.7 |
| 4/17/2015 10:18:33 | 52.82 | 48.02 | 110 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 10:18:37 | 53.15 | 48.35 | 99 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 10:18:40 | 53.48 | 48.68 | 98 | 0.29 | 0.42 | 5.3 |
| 4/17/2015 10:18:43 | 53.81 | 49.01 | 119 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 10:18:46 | 54.13 | 49.33 | 140 | 0.29 | 0.42 | 7.6 |
| 4/17/2015 10:18:49 | 54.46 | 49.66 | 134 | 0.29 | 0.42 | 7.3 |
| 4/17/2015 10:18:52 | 54.79 | 49.99 | 98 | 0.29 | 0.42 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:18:55 | 55.12 | 50.32 | 105 | 0.29 | 0.42 | 5.7 |
| 4/17/2015 | 10:18:58 | 55.45 | 50.65 | 137 | 0.29 | 0.42 | 7.5 |
| 4/17/2015 | 10:19:01 | 55.77 | 50.97 | 148 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 | 10:19:02 | 56.10 | 51.30 | 192 | 0.29 | 0.42 | 10.5 |
| 4/17/2015 | 10:19:03 | 56.43 | 51.63 | 233 | 0.29 | 0.42 | 12.7 |
| 4/17/2015 | 10:19:05 | 56.76 | 51.96 | 233 | 0.29 | 0.42 | 12.7 |
| 4/17/2015 | 10:19:07 | 57.09 | 52.29 | 147 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 | 10:19:10 | 57.41 | 52.61 | 132 | 0.29 | 0.42 | 7.2 |
| 4/17/2015 | 10:19:14 | 57.74 | 52.94 | 116 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 | 10:19:16 | 58.07 | 53.27 | 121 | 0.29 | 0.42 | 6.6 |
| 4/17/2015 | 10:19:19 | 58.40 | 53.60 | 151 | 0.29 | 0.42 | 8.3 |
| 4/17/2015 | 10:19:20 | 58.73 | 53.93 | 169 | 0.29 | 0.42 | 9.2 |
| 4/17/2015 | 10:19:22 | 59.06 | 54.26 | 206 | 0.29 | 0.42 | 11.3 |
| 4/17/2015 | 10:19:23 | 59.38 | 54.58 | 256 | 0.29 | 0.42 | 14.0 |

## A29 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:15:30

**End Date:**
4/17/2015 10:20:47

**Operator Note:**
'4.8 4.3 b No rock'

**Northing:**
371,415.01

**Easting:**
259,361.29

**Tide (feet):**
4.80



## Hole: A3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:41:54 | 30.51 | 30.21 | 124 | 2.16 | 0.15 | 6.8 |
| 4/17/2015 6:41:54 | 30.84 | 30.54 | 147 | 2.40 | 0.15 | 8.0 |
| 4/17/2015 6:41:55 | 31.17 | 30.87 | 259 | 2.15 | 0.15 | 14.1 |
| 4/17/2015 6:41:55 | 31.50 | 31.20 | 364 | 2.17 | 0.15 | 19.9 |
| 4/17/2015 6:41:56 | 31.82 | 31.52 | 364 | 2.16 | 0.15 | 19.9 |
| 4/17/2015 6:41:57 | 32.15 | 31.85 | 555 | 2.14 | 0.15 | 30.3 |
| 4/17/2015 6:41:57 | 32.48 | 32.18 | 552 | 2.15 | 0.15 | 30.2 |
| 4/17/2015 6:41:58 | 32.81 | 32.51 | 558 | 2.15 | 0.15 | 30.5 |
| 4/17/2015 6:41:58 | 33.14 | 32.84 | 567 | 2.15 | 0.15 | 31.0 |
| 4/17/2015 6:42:47 | 33.46 | 33.16 | 29 | 2.21 | 1.18 | 1.6 |
| 4/17/2015 6:42:48 | 33.79 | 33.49 | 195 | 2.19 | 1.13 | 10.6 |
| 4/17/2015 6:42:48 | 34.12 | 33.82 | 280 | 2.21 | 1.15 | 15.3 |
| 4/17/2015 6:42:59 | 34.45 | 34.15 | 0 | 2.19 | 1.15 | 0.0 |
| 4/17/2015 6:43:01 | 34.78 | 34.48 | 97 | 2.23 | 1.15 | 5.3 |
| 4/17/2015 6:43:07 | 35.11 | 34.81 | 65 | 2.25 | 1.17 | 3.5 |
| 4/17/2015 6:43:08 | 35.43 | 35.13 | 210 | 2.30 | 1.20 | 11.5 |
| 4/17/2015 6:43:09 | 35.76 | 35.46 | 344 | 2.34 | 1.32 | 18.8 |
| 4/17/2015 6:43:17 | 36.09 | 35.79 | 63 | 2.29 | 1.32 | 3.5 |
| 4/17/2015 6:43:23 | 36.42 | 36.12 | 76 | 2.29 | 1.24 | 4.2 |
| 4/17/2015 6:43:27 | 36.75 | 36.45 | 98 | 2.35 | 1.25 | 5.4 |
| 4/17/2015 6:43:30 | 37.07 | 36.77 | 96 | 2.36 | 1.26 | 5.3 |
| 4/17/2015 6:43:35 | 37.40 | 37.10 | 90 | 2.36 | 1.29 | 4.9 |
| 4/17/2015 6:43:38 | 37.73 | 37.43 | 105 | 2.38 | 1.24 | 5.7 |
| 4/17/2015 6:43:40 | 38.06 | 37.76 | 125 | 2.35 | 1.25 | 6.8 |
| 4/17/2015 6:43:42 | 38.27 | 37.97 | 148 | 2.32 | 1.36 | 8.1 |

## A3 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:40:24

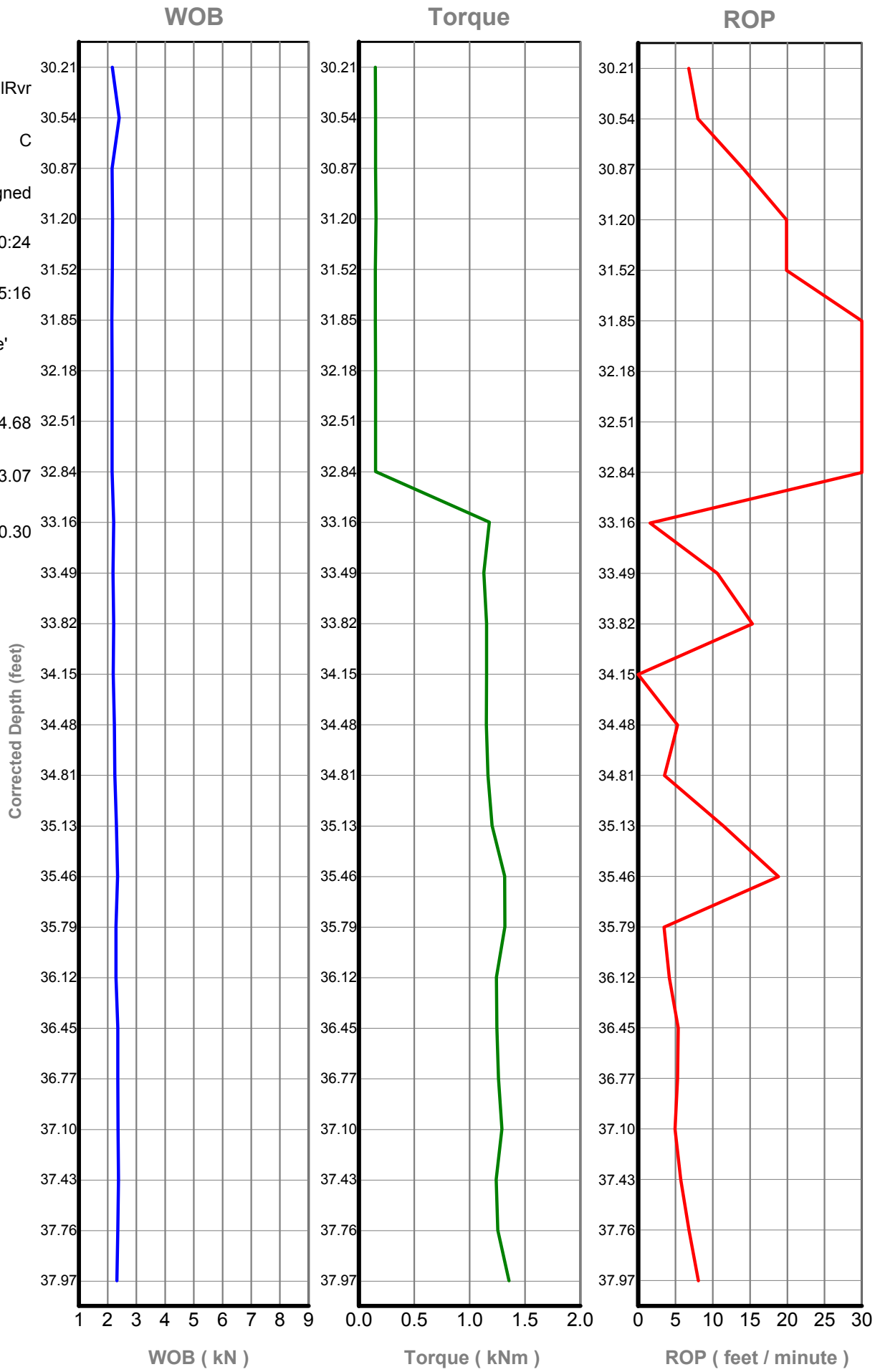
**End Date:**
4/17/2015 6:45:16

**Operator Note:**
'0.3 0.6 c Auto Complete'

**Northing:**
371,634.68

**Easting:**
259,663.07

**Tide (feet):**
0.30



## Hole: A30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:18:41 | 35.11 | 30.31 | 613 | 2.12 | 0.28 | 33.5 |
| 4/17/2015 10:18:41 | 35.43 | 30.63 | 607 | 2.13 | 0.28 | 33.2 |
| 4/17/2015 10:18:42 | 35.76 | 30.96 | 607 | 2.13 | 0.28 | 33.2 |
| 4/17/2015 10:18:43 | 36.09 | 31.29 | 604 | 2.13 | 0.28 | 33.0 |
| 4/17/2015 10:18:43 | 36.42 | 31.62 | 610 | 2.14 | 0.28 | 33.4 |
| 4/17/2015 10:18:44 | 36.75 | 31.95 | 607 | 2.12 | 0.28 | 33.2 |
| 4/17/2015 10:18:45 | 37.07 | 32.27 | 606 | 2.13 | 0.28 | 33.2 |
| 4/17/2015 10:18:45 | 37.40 | 32.60 | 613 | 2.14 | 0.29 | 33.5 |
| 4/17/2015 10:18:46 | 37.73 | 32.93 | 610 | 2.14 | 0.28 | 33.4 |
| 4/17/2015 10:18:46 | 38.06 | 33.26 | 610 | 2.12 | 0.28 | 33.4 |
| 4/17/2015 10:18:47 | 38.39 | 33.59 | 610 | 2.14 | 0.28 | 33.4 |
| 4/17/2015 10:18:47 | 38.71 | 33.91 | 614 | 2.13 | 0.28 | 33.6 |
| 4/17/2015 10:18:48 | 39.04 | 34.24 | 610 | 2.13 | 0.28 | 33.4 |
| 4/17/2015 10:18:49 | 39.37 | 34.57 | 603 | 2.12 | 0.28 | 33.0 |
| 4/17/2015 10:18:49 | 39.70 | 34.90 | 613 | 2.13 | 0.28 | 33.5 |
| 4/17/2015 10:18:50 | 40.03 | 35.23 | 606 | 2.15 | 0.28 | 33.2 |
| 4/17/2015 10:18:50 | 40.35 | 35.55 | 604 | 2.13 | 0.27 | 33.0 |
| 4/17/2015 10:18:51 | 40.68 | 35.88 | 610 | 2.13 | 0.28 | 33.4 |
| 4/17/2015 10:18:51 | 41.01 | 36.21 | 610 | 2.14 | 0.27 | 33.4 |
| 4/17/2015 10:18:52 | 41.34 | 36.54 | 607 | 2.14 | 0.27 | 33.2 |
| 4/17/2015 10:18:52 | 41.67 | 36.87 | 604 | 2.13 | 0.28 | 33.0 |
| 4/17/2015 10:18:54 | 41.99 | 37.19 | 610 | 2.14 | 0.27 | 33.4 |
| 4/17/2015 10:18:54 | 42.32 | 37.52 | 614 | 2.14 | 0.28 | 33.6 |
| 4/17/2015 10:18:55 | 42.65 | 37.85 | 607 | 2.13 | 0.28 | 33.2 |
| 4/17/2015 10:18:55 | 42.98 | 38.18 | 611 | 2.12 | 0.28 | 33.4 |
| 4/17/2015 10:18:56 | 43.31 | 38.51 | 606 | 2.15 | 0.28 | 33.2 |
| 4/17/2015 10:18:56 | 43.64 | 38.84 | 604 | 2.16 | 0.28 | 33.0 |
| 4/17/2015 10:18:57 | 43.96 | 39.16 | 604 | 2.15 | 0.27 | 33.0 |
| 4/17/2015 10:18:58 | 44.29 | 39.49 | 610 | 2.13 | 0.27 | 33.3 |
| 4/17/2015 10:18:58 | 44.62 | 39.82 | 608 | 2.14 | 0.27 | 33.2 |
| 4/17/2015 10:18:59 | 44.95 | 40.15 | 604 | 2.14 | 0.28 | 33.0 |
| 4/17/2015 10:18:59 | 45.28 | 40.48 | 600 | 2.12 | 0.28 | 32.8 |
| 4/17/2015 10:19:00 | 45.60 | 40.80 | 604 | 2.14 | 0.27 | 33.0 |
| 4/17/2015 10:19:00 | 45.93 | 41.13 | 601 | 2.12 | 0.28 | 32.9 |
| 4/17/2015 10:19:01 | 46.26 | 41.46 | 604 | 2.12 | 0.27 | 33.0 |
| 4/17/2015 10:19:01 | 46.59 | 41.79 | 607 | 2.13 | 0.28 | 33.2 |
| 4/17/2015 10:19:03 | 46.92 | 42.12 | 607 | 2.14 | 0.28 | 33.2 |
| 4/17/2015 10:19:03 | 47.24 | 42.44 | 600 | 2.13 | 0.28 | 32.8 |
| 4/17/2015 10:19:04 | 47.57 | 42.77 | 604 | 2.14 | 0.27 | 33.0 |
| 4/17/2015 10:19:04 | 47.90 | 43.10 | 608 | 2.14 | 0.28 | 33.2 |
| 4/17/2015 10:19:05 | 48.23 | 43.43 | 608 | 2.13 | 0.27 | 33.2 |
| 4/17/2015 10:19:05 | 48.56 | 43.76 | 605 | 2.14 | 0.27 | 33.1 |
| 4/17/2015 10:19:32 | 48.88 | 44.08 | 0 | 2.27 | 1.20 | 0.0 |
| 4/17/2015 10:19:35 | 49.21 | 44.41 | 113 | 2.23 | 1.15 | 6.2 |
| 4/17/2015 10:19:36 | 49.54 | 44.74 | 205 | 2.33 | 1.24 | 11.2 |
| 4/17/2015 10:19:38 | 49.87 | 45.07 | 252 | 2.31 | 1.14 | 13.8 |
| 4/17/2015 10:19:39 | 50.20 | 45.40 | 231 | 2.30 | 1.12 | 12.6 |
| 4/17/2015 10:19:40 | 50.53 | 45.73 | 273 | 2.30 | 1.05 | 15.0 |
| 4/17/2015 10:19:42 | 50.85 | 46.05 | 274 | 2.36 | 1.19 | 15.0 |
| 4/17/2015 10:19:44 | 51.18 | 46.38 | 162 | 2.35 | 1.19 | 8.8 |
| 4/17/2015 10:19:47 | 51.51 | 46.71 | 145 | 2.32 | 1.17 | 7.9 |
| 4/17/2015 10:19:49 | 51.84 | 47.04 | 151 | 2.31 | 1.17 | 8.3 |
| 4/17/2015 10:19:51 | 52.17 | 47.37 | 171 | 2.33 | 1.16 | 9.3 |
| 4/17/2015 10:19:53 | 52.49 | 47.69 | 160 | 2.33 | 1.18 | 8.8 |
| 4/17/2015 10:19:56 | 52.82 | 48.02 | 152 | 2.36 | 1.18 | 8.3 |
| 4/17/2015 10:19:58 | 53.15 | 48.35 | 129 | 2.36 | 1.15 | 7.1 |
| 4/17/2015 10:20:01 | 53.48 | 48.68 | 124 | 2.36 | 1.16 | 6.8 |
| 4/17/2015 10:20:04 | 53.81 | 49.01 | 123 | 2.38 | 1.18 | 6.7 |
| 4/17/2015 10:20:07 | 54.13 | 49.33 | 121 | 2.35 | 1.13 | 6.6 |
| 4/17/2015 10:20:11 | 54.46 | 49.66 | 104 | 2.37 | 1.17 | 5.7 |
| 4/17/2015 10:20:13 | 54.79 | 49.99 | 115 | 2.34 | 1.18 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:20:16 | 55.12 | 50.32 | 144 | 2.36 | 1.22 | 7.9 |
| 4/17/2015 | 10:20:19 | 55.45 | 50.65 | 136 | 2.33 | 1.21 | 7.4 |
| 4/17/2015 | 10:20:21 | 55.77 | 50.97 | 147 | 2.34 | 1.19 | 8.1 |
| 4/17/2015 | 10:20:23 | 56.10 | 51.30 | 186 | 2.34 | 1.17 | 10.2 |
| 4/17/2015 | 10:20:24 | 56.43 | 51.63 | 200 | 2.33 | 1.15 | 10.9 |
| 4/17/2015 | 10:20:27 | 56.76 | 51.96 | 194 | 2.35 | 1.16 | 10.6 |
| 4/17/2015 | 10:20:29 | 57.09 | 52.29 | 185 | 2.36 | 1.15 | 10.1 |
| 4/17/2015 | 10:20:30 | 57.41 | 52.61 | 176 | 2.32 | 1.18 | 9.6 |
| 4/17/2015 | 10:20:33 | 57.74 | 52.94 | 160 | 2.35 | 1.15 | 8.7 |
| 4/17/2015 | 10:20:36 | 58.07 | 53.27 | 123 | 2.34 | 1.13 | 6.8 |
| 4/17/2015 | 10:20:38 | 58.40 | 53.60 | 134 | 2.34 | 1.12 | 7.3 |
| 4/17/2015 | 10:20:41 | 58.73 | 53.93 | 164 | 2.34 | 1.22 | 9.0 |
| 4/17/2015 | 10:20:43 | 59.06 | 54.26 | 162 | 2.34 | 1.26 | 8.9 |
| 4/17/2015 | 10:20:46 | 59.38 | 54.58 | 107 | 2.34 | 1.15 | 5.8 |
| 4/17/2015 | 10:20:55 | 59.71 | 54.91 | 6 | 2.32 | 1.24 | 0.3 |
| 4/17/2015 | 10:20:56 | 59.81 | 55.01 | 78 | 2.30 | 1.20 | 4.3 |

## A30 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:16:55

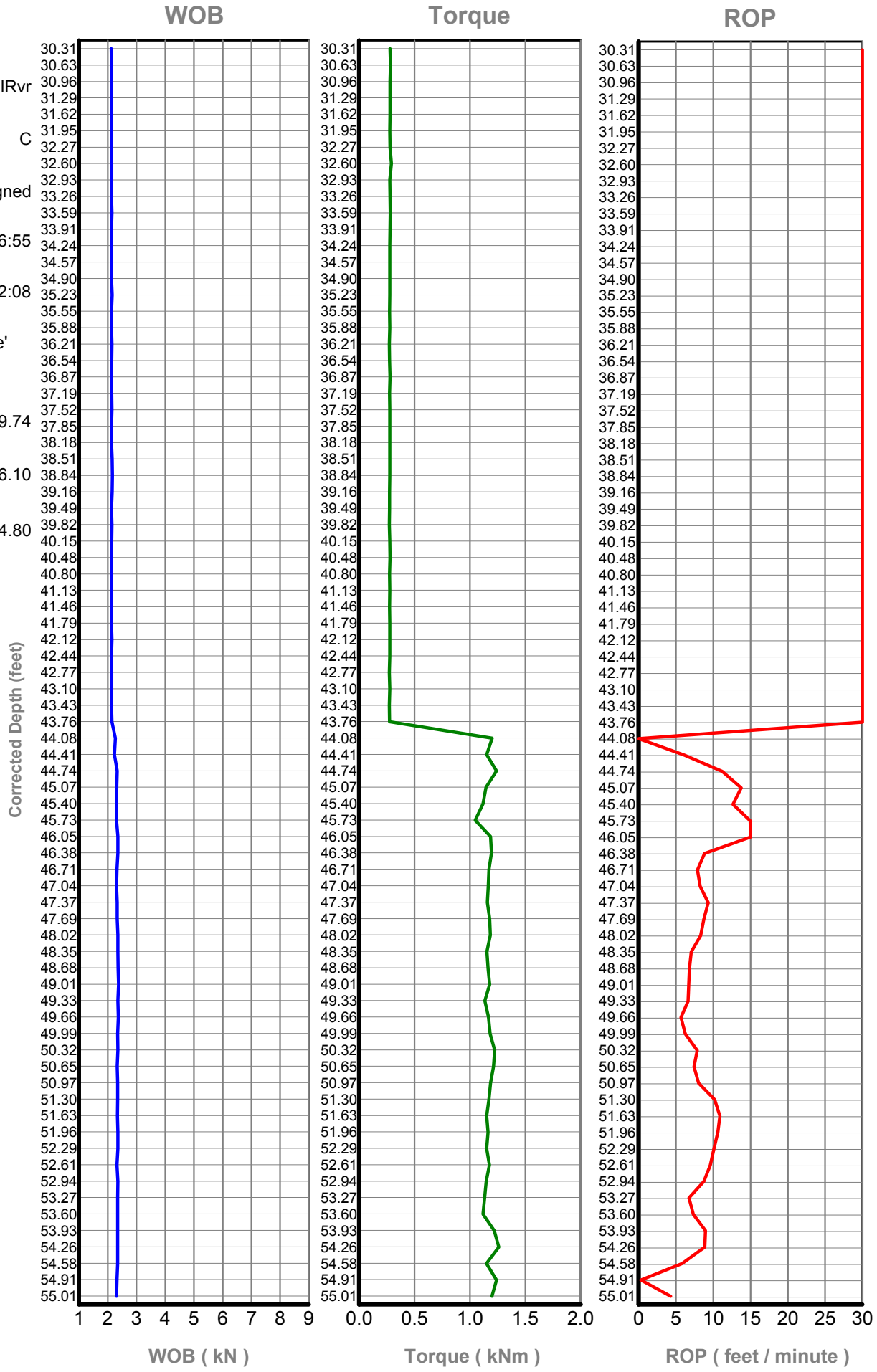
**End Date:**
4/17/2015 10:22:08

**Operator Note:**
'4.8 4.6 c Auto Complete'

**Northing:**
371,409.74

**Easting:**
259,436.10

**Tide (feet):**
4.80



## Hole: A31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:22:40 | 31.82 | 30.32 | 1,180 | 0.56 | 0.36 | 64.5 |
| 4/17/2015 5:22:41 | 32.15 | 30.65 | 1,180 | 0.56 | 0.36 | 64.5 |
| 4/17/2015 5:22:41 | 32.48 | 30.98 | 1,182 | 0.56 | 0.35 | 64.7 |
| 4/17/2015 5:22:41 | 32.81 | 31.31 | 1,174 | 0.57 | 0.35 | 64.2 |
| 4/17/2015 5:22:42 | 33.14 | 31.64 | 1,174 | 0.57 | 0.35 | 64.2 |
| 4/17/2015 5:22:42 | 33.46 | 31.96 | 1,171 | 0.56 | 0.35 | 64.0 |
| 4/17/2015 5:22:43 | 33.79 | 32.29 | 1,171 | 0.56 | 0.35 | 64.0 |
| 4/17/2015 5:22:43 | 34.12 | 32.62 | 1,161 | 0.56 | 0.36 | 63.5 |
| 4/17/2015 5:22:43 | 34.45 | 32.95 | 1,161 | 0.56 | 0.36 | 63.5 |
| 4/17/2015 5:22:43 | 34.78 | 33.28 | 1,174 | 0.57 | 0.36 | 64.2 |
| 4/17/2015 5:22:44 | 35.11 | 33.61 | 1,171 | 0.56 | 0.36 | 64.0 |
| 4/17/2015 5:22:44 | 35.43 | 33.93 | 1,171 | 0.56 | 0.36 | 64.0 |
| 4/17/2015 5:22:44 | 35.76 | 34.26 | 1,174 | 0.56 | 0.35 | 64.2 |
| 4/17/2015 5:22:45 | 36.09 | 34.59 | 1,174 | 0.56 | 0.35 | 64.2 |
| 4/17/2015 5:22:45 | 36.42 | 34.92 | 1,177 | 0.56 | 0.35 | 64.3 |
| 4/17/2015 5:22:45 | 36.75 | 35.25 | 1,177 | 0.56 | 0.35 | 64.3 |
| 4/17/2015 5:22:45 | 37.07 | 35.57 | 1,190 | 0.56 | 0.35 | 65.1 |
| 4/17/2015 5:22:46 | 37.40 | 35.90 | 1,179 | 0.56 | 0.35 | 64.5 |
| 4/17/2015 5:22:46 | 37.73 | 36.23 | 1,179 | 0.56 | 0.35 | 64.5 |
| 4/17/2015 5:22:46 | 38.06 | 36.56 | 1,182 | 0.56 | 0.35 | 64.7 |
| 4/17/2015 5:22:47 | 38.39 | 36.89 | 1,182 | 0.56 | 0.35 | 64.7 |
| 4/17/2015 5:22:47 | 38.71 | 37.21 | 1,175 | 0.56 | 0.35 | 64.3 |
| 4/17/2015 5:22:47 | 39.04 | 37.54 | 1,188 | 0.56 | 0.36 | 65.0 |
| 4/17/2015 5:22:48 | 39.37 | 37.87 | 1,188 | 0.56 | 0.36 | 65.0 |
| 4/17/2015 5:22:48 | 39.70 | 38.20 | 1,175 | 0.56 | 0.35 | 64.3 |
| 4/17/2015 5:22:48 | 40.03 | 38.53 | 1,175 | 0.56 | 0.35 | 64.3 |
| 4/17/2015 5:22:48 | 40.35 | 38.85 | 1,185 | 0.56 | 0.36 | 64.8 |
| 4/17/2015 5:22:49 | 40.68 | 39.18 | 1,185 | 0.56 | 0.36 | 64.8 |
| 4/17/2015 5:22:49 | 41.01 | 39.51 | 1,185 | 0.56 | 0.35 | 64.8 |
| 4/17/2015 5:22:49 | 41.34 | 39.84 | 1,198 | 0.56 | 0.35 | 65.5 |
| 4/17/2015 5:22:50 | 41.67 | 40.17 | 1,198 | 0.56 | 0.35 | 65.5 |
| 4/17/2015 5:22:50 | 41.99 | 40.49 | 1,182 | 0.56 | 0.36 | 64.7 |
| 4/17/2015 5:22:50 | 42.32 | 40.82 | 1,182 | 0.56 | 0.36 | 64.7 |
| 4/17/2015 5:22:50 | 42.65 | 41.15 | 1,182 | 0.56 | 0.36 | 64.7 |
| 4/17/2015 5:22:51 | 42.98 | 41.48 | 1,166 | 0.56 | 0.35 | 63.7 |
| 4/17/2015 5:22:51 | 43.31 | 41.81 | 1,166 | 0.56 | 0.35 | 63.7 |
| 4/17/2015 5:22:51 | 43.64 | 42.14 | 1,184 | 0.56 | 0.35 | 64.7 |
| 4/17/2015 5:22:52 | 43.96 | 42.46 | 1,184 | 0.56 | 0.35 | 64.7 |
| 4/17/2015 5:22:52 | 44.29 | 42.79 | 1,178 | 0.56 | 0.35 | 64.4 |
| 4/17/2015 5:22:52 | 44.62 | 43.12 | 1,178 | 0.56 | 0.35 | 64.4 |
| 4/17/2015 5:22:52 | 44.95 | 43.45 | 1,181 | 0.56 | 0.35 | 64.6 |
| 4/17/2015 5:22:53 | 45.28 | 43.78 | 1,181 | 0.56 | 0.36 | 64.6 |
| 4/17/2015 5:22:54 | 45.60 | 44.10 | 1,181 | 0.56 | 0.36 | 64.6 |
| 4/17/2015 5:22:54 | 45.93 | 44.43 | 1,160 | 0.56 | 0.36 | 63.4 |
| 4/17/2015 5:22:54 | 46.26 | 44.76 | 1,160 | 0.56 | 0.36 | 63.4 |
| 4/17/2015 5:22:54 | 46.59 | 45.09 | 1,160 | 0.56 | 0.36 | 63.4 |
| 4/17/2015 5:22:55 | 46.92 | 45.42 | 1,165 | 0.56 | 0.36 | 63.7 |
| 4/17/2015 5:22:55 | 47.24 | 45.74 | 1,165 | 0.56 | 0.36 | 63.7 |
| 4/17/2015 5:22:55 | 47.57 | 46.07 | 1,155 | 0.56 | 0.35 | 63.1 |
| 4/17/2015 5:22:56 | 47.90 | 46.40 | 1,155 | 0.56 | 0.35 | 63.1 |
| 4/17/2015 5:22:56 | 48.23 | 46.73 | 1,151 | 0.56 | 0.36 | 63.0 |
| 4/17/2015 5:22:56 | 48.56 | 47.06 | 1,150 | 0.56 | 0.41 | 62.9 |
| 4/17/2015 5:23:18 | 48.88 | 47.38 | 29 | 3.94 | 0.47 | 1.6 |
| 4/17/2015 5:23:19 | 49.21 | 47.71 | 195 | 3.99 | 0.47 | 10.7 |
| 4/17/2015 5:23:21 | 49.54 | 48.04 | 133 | 3.98 | 0.48 | 7.3 |
| 4/17/2015 5:23:23 | 49.87 | 48.37 | 168 | 3.98 | 0.47 | 9.2 |
| 4/17/2015 5:23:25 | 50.20 | 48.70 | 212 | 4.04 | 0.48 | 11.6 |
| 4/17/2015 5:23:27 | 50.53 | 49.03 | 197 | 4.11 | 0.47 | 10.8 |
| 4/17/2015 5:23:29 | 50.85 | 49.35 | 187 | 4.01 | 0.48 | 10.2 |
| 4/17/2015 5:23:31 | 51.18 | 49.68 | 179 | 4.09 | 0.48 | 9.8 |
| 4/17/2015 5:23:34 | 51.51 | 50.01 | 116 | 3.81 | 0.47 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:23:38 | 51.84 | 50.34 | 81 | 3.88 | 0.47 | 4.4 |
| 4/17/2015 | 5:23:41 | 52.17 | 50.67 | 97 | 3.68 | 0.48 | 5.3 |
| 4/17/2015 | 5:23:45 | 52.49 | 50.99 | 109 | 3.84 | 0.47 | 6.0 |
| 4/17/2015 | 5:23:49 | 52.82 | 51.32 | 93 | 3.79 | 0.47 | 5.1 |
| 4/17/2015 | 5:23:53 | 53.15 | 51.65 | 87 | 3.71 | 0.46 | 4.8 |
| 4/17/2015 | 5:23:57 | 53.48 | 51.98 | 95 | 3.66 | 0.47 | 5.2 |
| 4/17/2015 | 5:24:01 | 53.81 | 52.31 | 72 | 3.68 | 0.46 | 3.9 |
| 4/17/2015 | 5:24:05 | 54.13 | 52.63 | 87 | 3.68 | 0.46 | 4.7 |
| 4/17/2015 | 5:24:09 | 54.46 | 52.96 | 94 | 3.64 | 0.47 | 5.2 |
| 4/17/2015 | 5:24:14 | 54.79 | 53.29 | 79 | 3.78 | 0.46 | 4.3 |
| 4/17/2015 | 5:24:19 | 55.12 | 53.62 | 66 | 3.89 | 0.47 | 3.6 |
| 4/17/2015 | 5:24:25 | 55.45 | 53.95 | 64 | 3.76 | 0.47 | 3.5 |
| 4/17/2015 | 5:24:30 | 55.77 | 54.27 | 73 | 3.88 | 0.46 | 4.0 |
| 4/17/2015 | 5:24:36 | 56.10 | 54.60 | 57 | 3.60 | 0.47 | 3.1 |
| 4/17/2015 | 5:24:42 | 56.43 | 54.93 | 59 | 3.56 | 0.46 | 3.2 |
| 4/17/2015 | 5:24:56 | 56.73 | 55.23 | 0 | 2.52 | 0.16 | 0.0 |

## A31 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:19:15

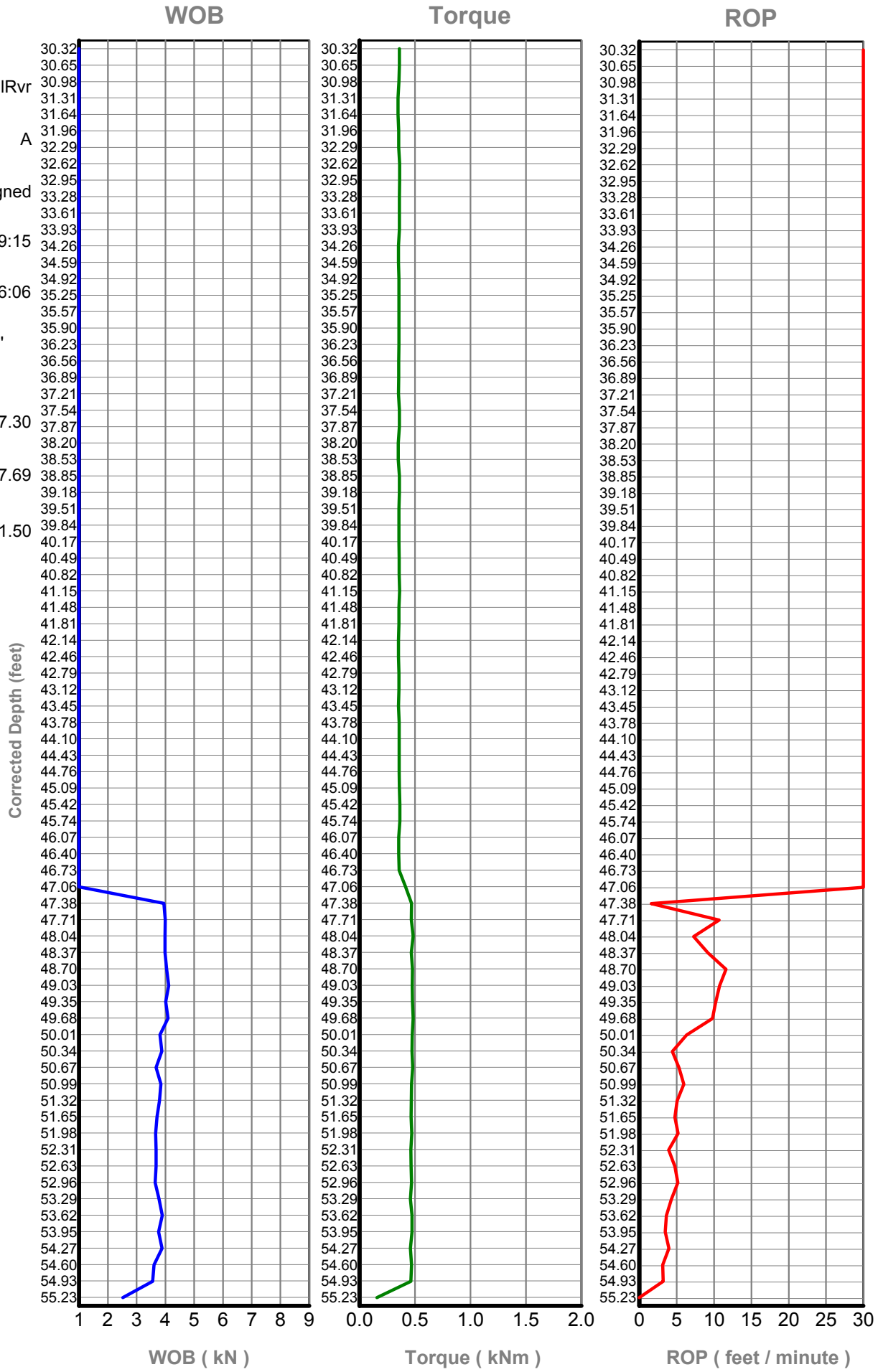
**End Date:**
4/17/2015 5:26:06

**Operator Note:**
'1.5 !.7 a Auto Complete'

**Northing:**
371,407.30

**Easting:**
259,507.69

**Tide (feet):**
1.50



## Hole: A32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:20:05 | 31.82 | 30.32 | 644 | 0.29 | 0.42 | 35.2 |
| 4/17/2015 5:20:05 | 32.15 | 30.65 | 856 | 0.29 | 0.42 | 46.8 |
| 4/17/2015 5:20:06 | 32.48 | 30.98 | 856 | 0.29 | 0.42 | 46.8 |
| 4/17/2015 5:20:06 | 32.81 | 31.31 | 1,044 | 0.29 | 0.42 | 57.1 |
| 4/17/2015 5:20:06 | 33.14 | 31.64 | 1,044 | 0.29 | 0.42 | 57.1 |
| 4/17/2015 5:20:06 | 33.46 | 31.96 | 1,067 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 5:20:07 | 33.79 | 32.29 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:20:07 | 34.12 | 32.62 | 1,070 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 5:20:07 | 34.45 | 32.95 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 5:20:08 | 34.78 | 33.28 | 1,067 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 5:20:08 | 35.11 | 33.61 | 1,067 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 5:20:08 | 35.43 | 33.93 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 5:20:09 | 35.76 | 34.26 | 1,058 | 0.29 | 0.42 | 57.8 |
| 4/17/2015 5:20:10 | 36.09 | 34.59 | 1,058 | 0.29 | 0.42 | 57.8 |
| 4/17/2015 5:20:10 | 36.42 | 34.92 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 5:20:10 | 36.75 | 35.25 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 5:20:11 | 37.07 | 35.57 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 5:20:11 | 37.40 | 35.90 | 1,046 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 5:20:11 | 37.73 | 36.23 | 1,049 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 5:20:12 | 38.06 | 36.56 | 1,049 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 5:20:12 | 38.39 | 36.89 | 1,052 | 0.29 | 0.42 | 57.5 |
| 4/17/2015 5:20:12 | 38.71 | 37.21 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 5:20:13 | 39.04 | 37.54 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 5:20:13 | 39.37 | 37.87 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 5:20:13 | 39.70 | 38.20 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 5:20:13 | 40.03 | 38.53 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 5:20:14 | 40.35 | 38.85 | 1,060 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 5:20:14 | 40.68 | 39.18 | 1,060 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 5:20:14 | 41.01 | 39.51 | 1,054 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 5:20:15 | 41.34 | 39.84 | 1,060 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 5:20:15 | 41.67 | 40.17 | 1,060 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 5:20:15 | 41.99 | 40.49 | 1,071 | 0.29 | 0.42 | 58.6 |
| 4/17/2015 5:20:16 | 42.32 | 40.82 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 5:20:16 | 42.65 | 41.15 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 5:20:16 | 42.98 | 41.48 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 5:20:17 | 43.31 | 41.81 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:17 | 43.64 | 42.14 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:17 | 43.96 | 42.46 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 5:20:18 | 44.29 | 42.79 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:18 | 44.62 | 43.12 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:18 | 44.95 | 43.45 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 5:20:19 | 45.28 | 43.78 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:19 | 45.60 | 44.10 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:19 | 45.93 | 44.43 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 5:20:20 | 46.26 | 44.76 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 5:20:20 | 46.59 | 45.09 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 5:20:20 | 46.92 | 45.42 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:21 | 47.24 | 45.74 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 5:20:21 | 47.57 | 46.07 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 5:20:22 | 47.90 | 46.40 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 5:20:49 | 48.23 | 46.73 | 9 | 0.29 | 0.42 | 0.5 |
| 4/17/2015 5:20:59 | 48.56 | 47.06 | 70 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 5:21:01 | 48.88 | 47.38 | 210 | 0.29 | 0.42 | 11.5 |
| 4/17/2015 5:21:05 | 49.21 | 47.71 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 5:21:11 | 49.54 | 48.04 | 69 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 5:21:12 | 49.87 | 48.37 | 168 | 0.29 | 0.42 | 9.2 |
| 4/17/2015 5:21:18 | 50.20 | 48.70 | 35 | 0.29 | 0.42 | 1.9 |
| 4/17/2015 5:21:24 | 50.53 | 49.03 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 5:21:28 | 50.85 | 49.35 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 5:21:33 | 51.18 | 49.68 | 94 | 0.29 | 0.42 | 5.2 |
| 4/17/2015 5:21:35 | 51.51 | 50.01 | 154 | 0.29 | 0.42 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:21:40 | 51.84 | 50.34 | 52 | 0.29 | 0.42 | 2.9 |
| 4/17/2015 | 5:21:47 | 52.17 | 50.67 | 44 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 | 5:21:54 | 52.49 | 50.99 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 | 5:21:59 | 52.68 | 51.18 | 46 | 0.29 | 0.42 | 2.5 |

## A32 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:17:41

**End Date:**
4/17/2015 5:23:16

**Operator Note:**
'1.5 1.7 b Auto Complete'

**Northing:**
371,407.30

**Easting:**
259,582.64

**Tide (feet):**
1.50



## Hole: A33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 5:21:04 | 31.82 | 30.32 | 602 | 2.16 | 0.15 | 32.9 |
| 4/17/2015 5:21:05 | 32.15 | 30.65 | 592 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 5:21:06 | 32.48 | 30.98 | 593 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 5:21:06 | 32.81 | 31.31 | 595 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 5:21:07 | 33.14 | 31.64 | 595 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 5:21:07 | 33.46 | 31.96 | 595 | 2.12 | 0.15 | 32.6 |
| 4/17/2015 5:21:08 | 33.79 | 32.29 | 595 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 5:21:09 | 34.12 | 32.62 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 5:21:09 | 34.45 | 32.95 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 5:21:10 | 34.78 | 33.28 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 5:21:11 | 35.11 | 33.61 | 595 | 2.14 | 0.15 | 32.5 |
| 4/17/2015 5:21:11 | 35.43 | 33.93 | 589 | 2.17 | 0.15 | 32.2 |
| 4/17/2015 5:21:12 | 35.76 | 34.26 | 593 | 2.15 | 0.15 | 32.4 |
| 4/17/2015 5:21:12 | 36.09 | 34.59 | 589 | 2.15 | 0.15 | 32.2 |
| 4/17/2015 5:21:13 | 36.42 | 34.92 | 577 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:21:14 | 36.75 | 35.25 | 591 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 5:21:14 | 37.07 | 35.57 | 590 | 2.14 | 0.16 | 32.3 |
| 4/17/2015 5:21:15 | 37.40 | 35.90 | 589 | 2.15 | 0.15 | 32.2 |
| 4/17/2015 5:21:15 | 37.73 | 36.23 | 593 | 2.14 | 0.15 | 32.4 |
| 4/17/2015 5:21:16 | 38.06 | 36.56 | 599 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 5:21:16 | 38.39 | 36.89 | 593 | 2.14 | 0.15 | 32.4 |
| 4/17/2015 5:21:17 | 38.71 | 37.21 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 5:21:18 | 39.04 | 37.54 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 5:21:18 | 39.37 | 37.87 | 594 | 2.14 | 0.16 | 32.5 |
| 4/17/2015 5:21:19 | 39.70 | 38.20 | 597 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 5:21:20 | 40.03 | 38.53 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 5:21:20 | 40.35 | 38.85 | 596 | 2.15 | 0.16 | 32.6 |
| 4/17/2015 5:21:21 | 40.68 | 39.18 | 596 | 2.15 | 0.16 | 32.6 |
| 4/17/2015 5:21:22 | 41.01 | 39.51 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 5:21:22 | 41.34 | 39.84 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 5:21:23 | 41.67 | 40.17 | 586 | 2.16 | 0.20 | 32.0 |
| 4/17/2015 5:21:23 | 41.99 | 40.49 | 592 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 5:21:24 | 42.32 | 40.82 | 592 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 5:21:24 | 42.65 | 41.15 | 601 | 2.15 | 0.16 | 32.9 |
| 4/17/2015 5:21:25 | 42.98 | 41.48 | 595 | 2.16 | 0.15 | 32.5 |
| 4/17/2015 5:21:26 | 43.31 | 41.81 | 589 | 2.14 | 0.15 | 32.2 |
| 4/17/2015 5:21:26 | 43.64 | 42.14 | 589 | 2.15 | 0.16 | 32.2 |
| 4/17/2015 5:21:27 | 43.96 | 42.46 | 595 | 2.16 | 0.15 | 32.5 |
| 4/17/2015 5:21:27 | 44.29 | 42.79 | 585 | 2.15 | 0.17 | 32.0 |
| 4/17/2015 5:21:28 | 44.62 | 43.12 | 588 | 2.14 | 0.15 | 32.1 |
| 4/17/2015 5:21:29 | 44.95 | 43.45 | 590 | 2.16 | 0.15 | 32.3 |
| 4/17/2015 5:21:29 | 45.28 | 43.78 | 590 | 2.15 | 0.15 | 32.3 |
| 4/17/2015 5:21:30 | 45.60 | 44.10 | 590 | 2.14 | 0.16 | 32.3 |
| 4/17/2015 5:21:31 | 45.93 | 44.43 | 590 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 5:21:31 | 46.26 | 44.76 | 584 | 2.16 | 0.15 | 31.9 |
| 4/17/2015 5:21:32 | 46.59 | 45.09 | 594 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 5:21:32 | 46.92 | 45.42 | 592 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 5:21:33 | 47.24 | 45.74 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 5:21:34 | 47.57 | 46.07 | 603 | 2.14 | 0.15 | 33.0 |
| 4/17/2015 5:21:34 | 47.90 | 46.40 | 593 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 5:21:35 | 48.23 | 46.73 | 593 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 5:21:35 | 48.56 | 47.06 | 593 | 2.14 | 0.15 | 32.4 |
| 4/17/2015 5:21:36 | 48.88 | 47.38 | 589 | 2.16 | 0.15 | 32.2 |
| 4/17/2015 5:21:37 | 49.21 | 47.71 | 600 | 2.15 | 0.15 | 32.8 |
| 4/17/2015 5:21:37 | 49.54 | 48.04 | 593 | 2.21 | 0.15 | 32.4 |
| 4/17/2015 5:22:01 | 49.87 | 48.37 | 26 | 2.31 | 1.27 | 1.4 |
| 4/17/2015 5:22:06 | 50.20 | 48.70 | 84 | 2.40 | 1.25 | 4.6 |
| 4/17/2015 5:22:10 | 50.53 | 49.03 | 80 | 2.38 | 1.24 | 4.4 |
| 4/17/2015 5:22:15 | 50.85 | 49.35 | 87 | 2.38 | 1.24 | 4.7 |
| 4/17/2015 5:22:18 | 51.02 | 49.52 | 58 | 2.40 | 1.23 | 3.2 |

## A33 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 5:19:35

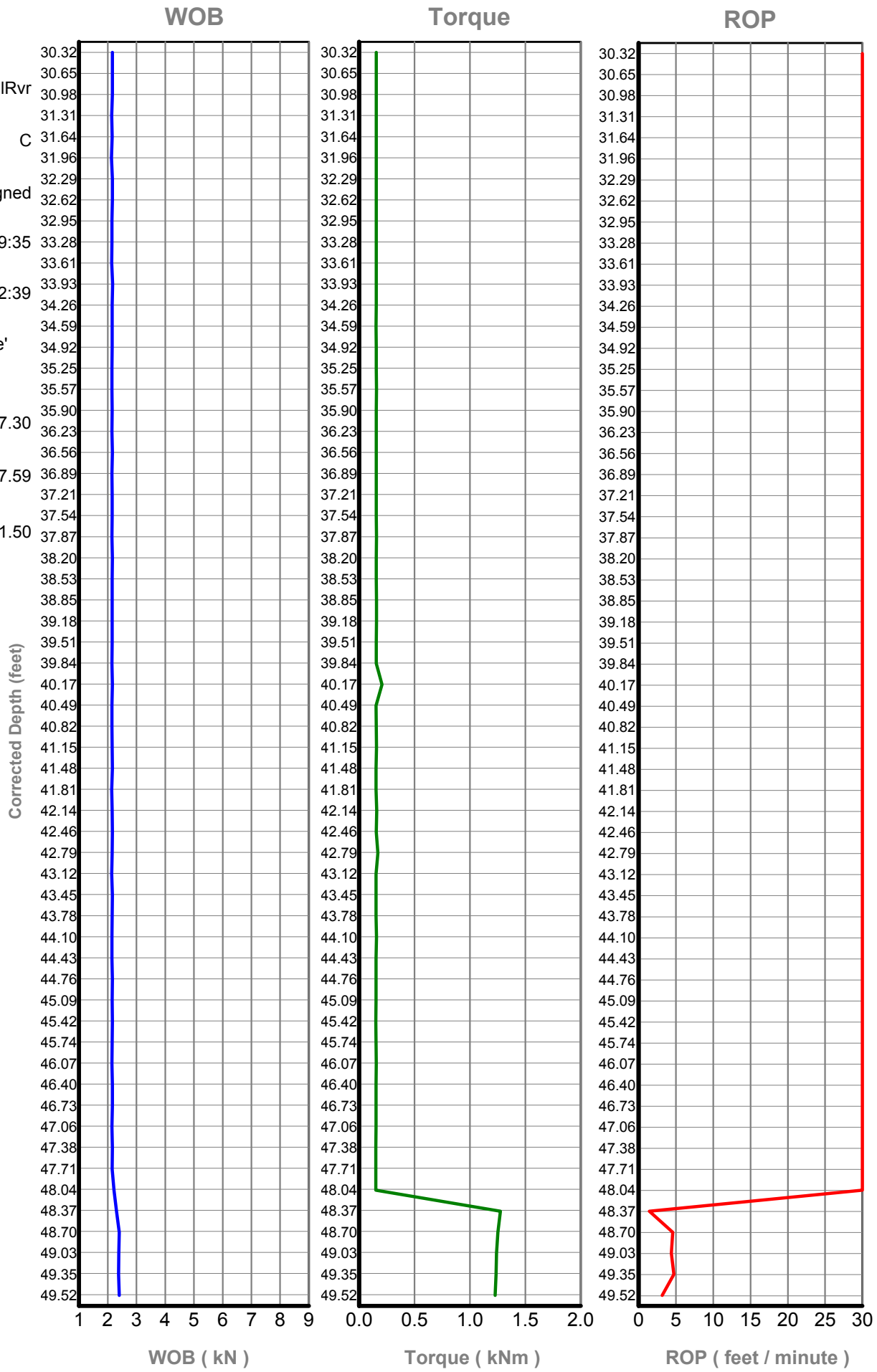
**End Date:**
4/17/2015 5:22:39

**Operator Note:**
'1.5 1.7 c Auto Complete'

**Northing:**
371,407.30

**Easting:**
259,657.59

**Tide (feet):**
1.50



## Hole: A34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:20:08 | 30.84 | 30.04 | 1,151 | 1.78 | 0.34 | 62.9 |
| 4/16/2015 17:20:08 | 31.17 | 30.37 | 1,154 | 1.79 | 0.33 | 63.1 |
| 4/16/2015 17:20:09 | 31.50 | 30.70 | 1,154 | 1.79 | 0.33 | 63.1 |
| 4/16/2015 17:20:09 | 31.82 | 31.02 | 1,158 | 1.78 | 0.34 | 63.3 |
| 4/16/2015 17:20:09 | 32.15 | 31.35 | 1,137 | 1.76 | 0.33 | 62.2 |
| 4/16/2015 17:20:10 | 32.48 | 31.68 | 1,137 | 1.76 | 0.33 | 62.2 |
| 4/16/2015 17:20:10 | 32.81 | 32.01 | 1,149 | 1.79 | 0.32 | 62.8 |
| 4/16/2015 17:20:10 | 33.14 | 32.34 | 1,149 | 1.79 | 0.32 | 62.8 |
| 4/16/2015 17:20:10 | 33.46 | 32.66 | 1,143 | 1.76 | 0.33 | 62.5 |
| 4/16/2015 17:20:11 | 33.79 | 32.99 | 1,143 | 1.76 | 0.33 | 62.5 |
| 4/16/2015 17:20:11 | 34.12 | 33.32 | 1,143 | 1.76 | 0.33 | 62.5 |
| 4/16/2015 17:20:11 | 34.45 | 33.65 | 1,146 | 1.77 | 0.32 | 62.6 |
| 4/16/2015 17:20:12 | 34.78 | 33.98 | 1,146 | 1.77 | 0.32 | 62.6 |
| 4/16/2015 17:20:12 | 35.11 | 34.31 | 1,158 | 1.76 | 0.33 | 63.3 |
| 4/16/2015 17:20:12 | 35.43 | 34.63 | 1,148 | 1.77 | 0.28 | 62.8 |
| 4/16/2015 17:20:13 | 35.76 | 34.96 | 1,148 | 1.77 | 0.28 | 62.8 |
| 4/16/2015 17:20:13 | 36.09 | 35.29 | 1,145 | 1.76 | 0.33 | 62.6 |
| 4/16/2015 17:20:13 | 36.42 | 35.62 | 1,145 | 1.76 | 0.33 | 62.6 |
| 4/16/2015 17:20:13 | 36.75 | 35.95 | 1,141 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:14 | 37.07 | 36.27 | 1,148 | 1.68 | 0.32 | 62.8 |
| 4/16/2015 17:20:14 | 37.40 | 36.60 | 1,148 | 1.68 | 0.32 | 62.8 |
| 4/16/2015 17:20:14 | 37.73 | 36.93 | 1,142 | 1.76 | 0.33 | 62.4 |
| 4/16/2015 17:20:15 | 38.06 | 37.26 | 1,142 | 1.76 | 0.33 | 62.4 |
| 4/16/2015 17:20:15 | 38.39 | 37.59 | 1,142 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:15 | 38.71 | 37.91 | 1,142 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:16 | 39.04 | 38.24 | 1,142 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:16 | 39.37 | 38.57 | 1,142 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:17 | 39.70 | 38.90 | 1,142 | 1.76 | 0.32 | 62.4 |
| 4/16/2015 17:20:16 | 40.03 | 39.23 | 1,126 | 1.76 | 0.32 | 61.6 |
| 4/16/2015 17:20:17 | 40.35 | 39.55 | 1,123 | 1.76 | 0.33 | 61.4 |
| 4/16/2015 17:20:17 | 40.68 | 39.88 | 1,123 | 1.76 | 0.33 | 61.4 |
| 4/16/2015 17:20:18 | 41.01 | 40.21 | 1,127 | 1.76 | 0.34 | 61.6 |
| 4/16/2015 17:20:18 | 41.34 | 40.54 | 1,127 | 1.76 | 0.34 | 61.6 |
| 4/16/2015 17:20:18 | 41.67 | 40.87 | 1,134 | 1.75 | 0.33 | 62.0 |
| 4/16/2015 17:20:19 | 41.99 | 41.19 | 1,125 | 1.76 | 0.33 | 61.5 |
| 4/16/2015 17:20:19 | 42.32 | 41.52 | 1,125 | 1.76 | 0.33 | 61.5 |
| 4/16/2015 17:20:19 | 42.65 | 41.85 | 1,129 | 1.75 | 0.33 | 61.7 |
| 4/16/2015 17:20:20 | 42.98 | 42.18 | 1,133 | 1.75 | 0.35 | 62.0 |
| 4/16/2015 17:20:20 | 43.31 | 42.51 | 1,133 | 1.75 | 0.35 | 62.0 |
| 4/16/2015 17:20:20 | 43.64 | 42.84 | 1,096 | 1.76 | 0.34 | 59.9 |
| 4/16/2015 17:20:21 | 43.96 | 43.16 | 1,049 | 1.74 | 0.35 | 57.4 |
| 4/16/2015 17:20:21 | 44.29 | 43.49 | 986 | 1.76 | 0.35 | 53.9 |
| 4/16/2015 17:20:22 | 44.62 | 43.82 | 906 | 1.74 | 0.36 | 49.5 |
| 4/16/2015 17:20:22 | 44.95 | 44.15 | 821 | 1.75 | 0.35 | 44.9 |
| 4/16/2015 17:20:23 | 45.28 | 44.48 | 755 | 1.76 | 0.35 | 41.3 |
| 4/16/2015 17:20:23 | 45.60 | 44.80 | 708 | 1.74 | 0.35 | 38.7 |
| 4/16/2015 17:20:24 | 45.93 | 45.13 | 685 | 1.74 | 0.35 | 37.5 |
| 4/16/2015 17:20:24 | 46.26 | 45.46 | 679 | 1.76 | 0.34 | 37.1 |
| 4/16/2015 17:20:25 | 46.59 | 45.79 | 676 | 1.74 | 0.34 | 37.0 |
| 4/16/2015 17:20:25 | 46.92 | 46.12 | 681 | 1.74 | 0.35 | 37.2 |
| 4/16/2015 17:20:26 | 47.24 | 46.44 | 679 | 1.75 | 0.35 | 37.1 |
| 4/16/2015 17:20:26 | 47.57 | 46.77 | 682 | 1.74 | 0.34 | 37.3 |
| 4/16/2015 17:20:27 | 47.90 | 47.10 | 695 | 1.76 | 0.35 | 38.0 |
| 4/16/2015 17:20:27 | 48.23 | 47.43 | 702 | 1.74 | 0.35 | 38.4 |
| 4/16/2015 17:20:28 | 48.56 | 47.76 | 702 | 1.74 | 0.35 | 38.4 |
| 4/16/2015 17:20:28 | 48.88 | 48.08 | 713 | 1.75 | 0.34 | 39.0 |
| 4/16/2015 17:20:29 | 49.21 | 48.41 | 734 | 1.76 | 0.34 | 40.2 |
| 4/16/2015 17:20:29 | 49.54 | 48.74 | 746 | 1.73 | 0.40 | 40.8 |
| 4/16/2015 17:20:30 | 49.87 | 49.07 | 752 | 1.76 | 0.34 | 41.1 |
| 4/16/2015 17:20:30 | 50.20 | 49.40 | 749 | 2.13 | 0.38 | 40.9 |
| 4/16/2015 17:20:41 | 50.53 | 49.73 | 111 | 3.57 | 0.46 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:20:42 | 50.85 | 50.05 | 188 | 3.30 | 0.43 | 10.3 |
| 4/16/2015 | 17:20:46 | 51.18 | 50.38 | 115 | 3.39 | 0.46 | 6.3 |
| 4/16/2015 | 17:20:51 | 51.51 | 50.71 | 69 | 3.64 | 0.45 | 3.8 |
| 4/16/2015 | 17:21:01 | 51.84 | 51.04 | 35 | 3.82 | 0.45 | 1.9 |
| 4/16/2015 | 17:21:11 | 52.17 | 51.37 | 35 | 4.02 | 0.47 | 1.9 |
| 4/16/2015 | 17:21:22 | 52.49 | 51.69 | 41 | 3.85 | 0.46 | 2.2 |
| 4/16/2015 | 17:21:30 | 52.82 | 52.02 | 50 | 3.92 | 0.42 | 2.7 |
| 4/16/2015 | 17:21:37 | 53.15 | 52.35 | 55 | 3.46 | 0.42 | 3.0 |
| 4/16/2015 | 17:21:42 | 53.48 | 52.68 | 75 | 4.17 | 0.41 | 4.1 |
| 4/16/2015 | 17:21:46 | 53.81 | 53.01 | 75 | 4.05 | 0.42 | 4.1 |
| 4/16/2015 | 17:21:59 | 54.13 | 53.33 | 0 | 4.59 | 0.42 | 0.0 |

## A34 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:18:29

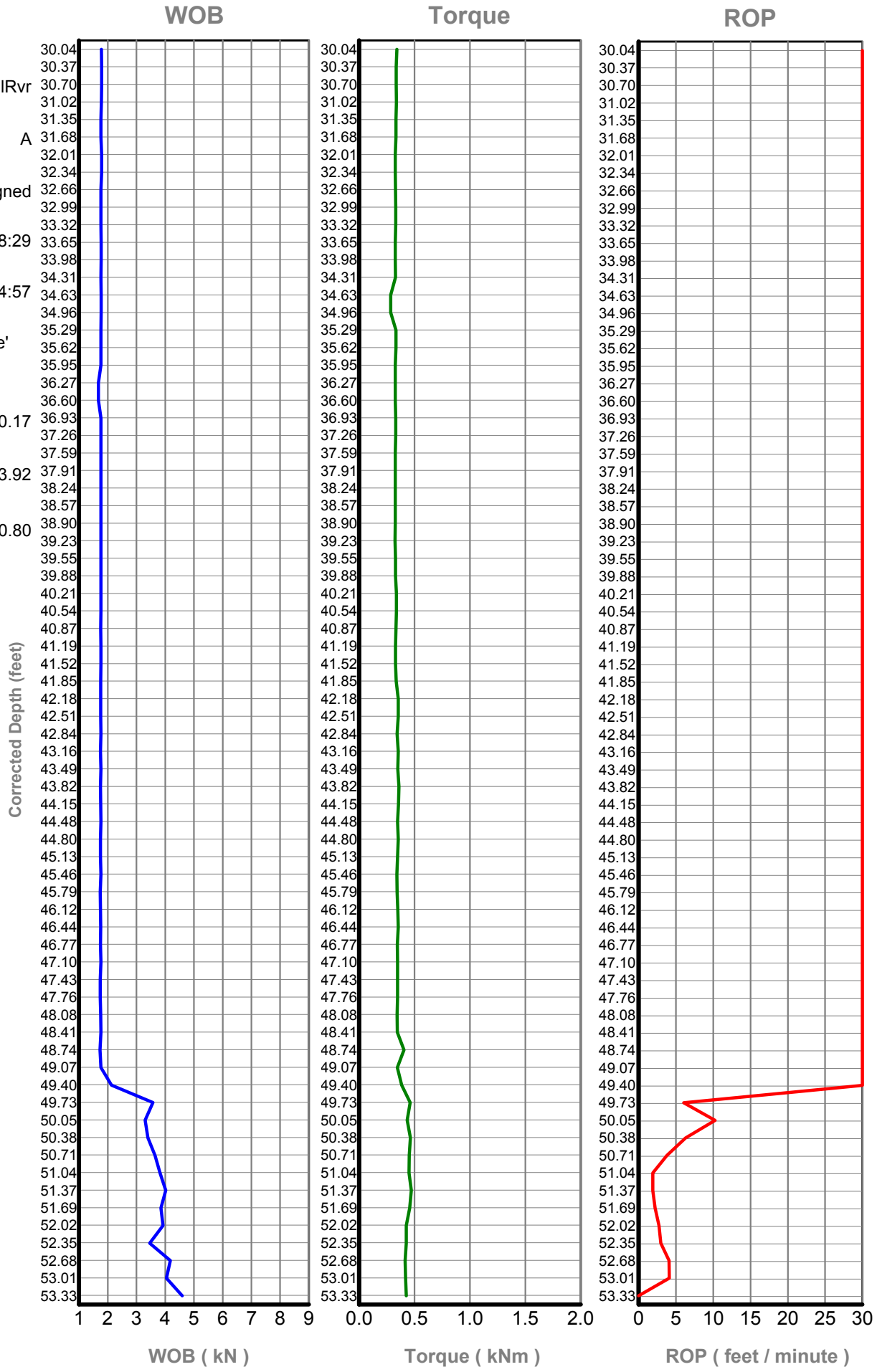
**End Date:**
4/16/2015 17:24:57

**Operator Note:**
'0.8 1.1 a Auto Complete'

**Northing:**
371,400.17

**Easting:**
259,733.92

**Tide (feet):**
0.80



## Hole: A35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:18:07 | 30.84 | 30.04 | 938 | 0.29 | 0.42 | 51.3 |
| 4/16/2015 17:18:07 | 31.17 | 30.37 | 938 | 0.29 | 0.42 | 51.3 |
| 4/16/2015 17:18:07 | 31.50 | 30.70 | 938 | 0.29 | 0.42 | 51.3 |
| 4/16/2015 17:18:08 | 31.82 | 31.02 | 940 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 17:18:08 | 32.15 | 31.35 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 17:18:09 | 32.48 | 31.68 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 17:18:09 | 32.81 | 32.01 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 17:18:09 | 33.14 | 32.34 | 942 | 0.29 | 0.42 | 51.5 |
| 4/16/2015 17:18:10 | 33.46 | 32.66 | 939 | 0.29 | 0.42 | 51.3 |
| 4/16/2015 17:18:11 | 33.79 | 32.99 | 939 | 0.29 | 0.42 | 51.3 |
| 4/16/2015 17:18:11 | 34.12 | 33.32 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:18:11 | 34.45 | 33.65 | 912 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:18:12 | 34.78 | 33.98 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 17:18:12 | 35.11 | 34.31 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 17:18:12 | 35.43 | 34.63 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:18:13 | 35.76 | 34.96 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:18:13 | 36.09 | 35.29 | 904 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:18:14 | 36.42 | 35.62 | 904 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:18:14 | 36.75 | 35.95 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 17:18:14 | 37.07 | 36.27 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 17:18:15 | 37.40 | 36.60 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 17:18:15 | 37.73 | 36.93 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 17:18:15 | 38.06 | 37.26 | 927 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 17:18:16 | 38.39 | 37.59 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 17:18:16 | 38.71 | 37.91 | 927 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 17:18:17 | 39.04 | 38.24 | 927 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 17:18:17 | 39.37 | 38.57 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:18:17 | 39.70 | 38.90 | 900 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 17:18:18 | 40.03 | 39.23 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:18:18 | 40.35 | 39.55 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:18:18 | 40.68 | 39.88 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:18:19 | 41.01 | 40.21 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 17:18:19 | 41.34 | 40.54 | 880 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 17:18:20 | 41.67 | 40.87 | 880 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 17:18:20 | 41.99 | 41.19 | 880 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 17:18:20 | 42.32 | 41.52 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 17:18:21 | 42.65 | 41.85 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 17:18:21 | 42.98 | 42.18 | 884 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 17:18:21 | 43.31 | 42.51 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 17:18:22 | 43.64 | 42.84 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 17:18:23 | 43.96 | 43.16 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:18:23 | 44.29 | 43.49 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:18:23 | 44.62 | 43.82 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:18:24 | 44.95 | 44.15 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:18:24 | 45.28 | 44.48 | 917 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:18:25 | 45.60 | 44.80 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:18:25 | 45.93 | 45.13 | 889 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 17:18:25 | 46.26 | 45.46 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:18:26 | 46.59 | 45.79 | 912 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:18:26 | 46.92 | 46.12 | 912 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:18:26 | 47.24 | 46.44 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:18:27 | 47.57 | 46.77 | 917 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:18:27 | 47.90 | 47.10 | 930 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 17:18:28 | 48.23 | 47.43 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:18:28 | 48.56 | 47.76 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:18:28 | 48.88 | 48.08 | 918 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 17:18:29 | 49.21 | 48.41 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 17:18:42 | 49.54 | 48.74 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 17:18:48 | 49.87 | 49.07 | 50 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 17:18:52 | 50.20 | 49.40 | 81 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 17:18:56 | 50.53 | 49.73 | 81 | 0.29 | 0.42 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:19:10 | 50.85 | 50.05 | 29 | 0.29 | 0.42 | 1.6 |
| 4/16/2015 | 17:19:15 | 51.18 | 50.38 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 17:19:20 | 51.51 | 50.71 | 72 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 17:19:36 | 51.84 | 51.04 | 54 | 0.29 | 0.42 | 3.0 |
| 4/16/2015 | 17:19:39 | 52.17 | 51.37 | 118 | 0.29 | 0.42 | 6.5 |
| 4/16/2015 | 17:19:41 | 52.49 | 51.69 | 156 | 0.29 | 0.42 | 8.5 |
| 4/16/2015 | 17:19:44 | 52.82 | 52.02 | 115 | 0.29 | 0.42 | 6.3 |
| 4/16/2015 | 17:19:49 | 53.15 | 52.35 | 69 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 | 17:19:53 | 53.48 | 52.68 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 17:19:59 | 53.81 | 53.01 | 81 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 | 17:20:02 | 54.13 | 53.33 | 81 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 | 17:20:07 | 54.46 | 53.66 | 68 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 17:20:13 | 54.79 | 53.99 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 | 17:20:18 | 55.12 | 54.32 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 17:20:25 | 55.45 | 54.65 | 51 | 0.29 | 0.42 | 2.8 |
| 4/16/2015 | 17:20:37 | 55.77 | 54.97 | 43 | 0.29 | 0.42 | 2.3 |
| 4/16/2015 | 17:20:42 | 56.09 | 55.29 | 63 | 0.29 | 0.42 | 3.4 |

## A35 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:16:12

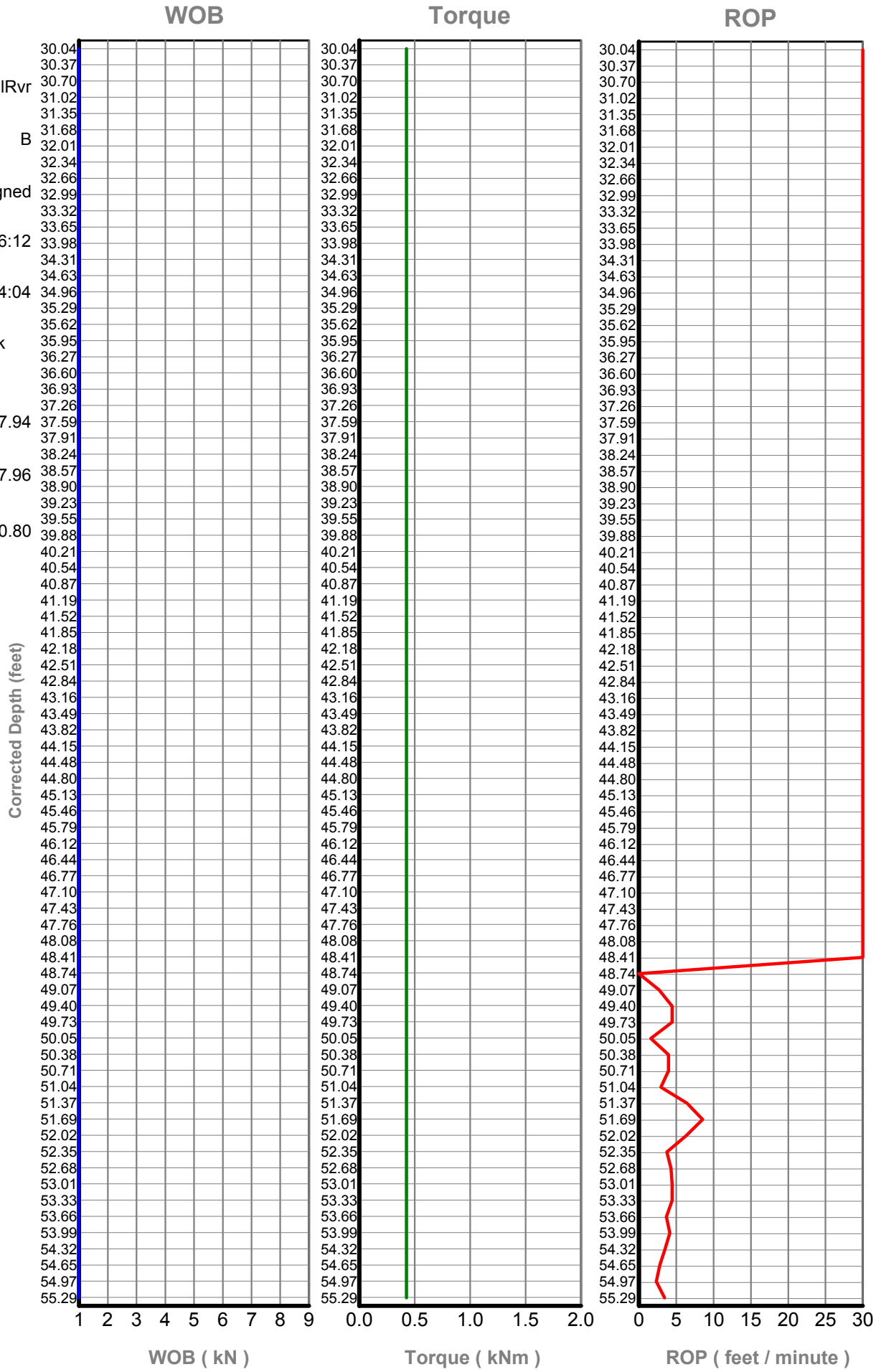
**End Date:**
4/16/2015 17:24:04

**Operator Note:**
'0.8 1.1 b Hit steady rock @ 55"

**Northing:**
371,397.94

**Easting:**
259,807.96

**Tide (feet):**
0.80



## Hole: A36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:20:01 | 30.84 | 30.04 | 728 | 2.26 | 0.13 | 39.8 |
| 4/16/2015 17:20:02 | 31.17 | 30.37 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:02 | 31.50 | 30.70 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:03 | 31.82 | 31.02 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:03 | 32.15 | 31.35 | 730 | 2.26 | 0.13 | 39.9 |
| 4/16/2015 17:20:04 | 32.48 | 31.68 | 728 | 2.26 | 0.13 | 39.8 |
| 4/16/2015 17:20:04 | 32.81 | 32.01 | 724 | 2.26 | 0.13 | 39.6 |
| 4/16/2015 17:20:05 | 33.14 | 32.34 | 731 | 2.25 | 0.13 | 40.0 |
| 4/16/2015 17:20:05 | 33.46 | 32.66 | 729 | 2.25 | 0.11 | 39.8 |
| 4/16/2015 17:20:06 | 33.79 | 32.99 | 729 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:06 | 34.12 | 33.32 | 726 | 2.26 | 0.13 | 39.7 |
| 4/16/2015 17:20:07 | 34.45 | 33.65 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:07 | 34.78 | 33.98 | 726 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:20:08 | 35.11 | 34.31 | 726 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:20:09 | 35.43 | 34.63 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:20:09 | 35.76 | 34.96 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:20:09 | 36.09 | 35.29 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:20:10 | 36.42 | 35.62 | 726 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:20:10 | 36.75 | 35.95 | 726 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:20:11 | 37.07 | 36.27 | 726 | 2.26 | 0.13 | 39.7 |
| 4/16/2015 17:20:11 | 37.40 | 36.60 | 730 | 2.25 | 0.13 | 39.9 |
| 4/16/2015 17:20:12 | 37.73 | 36.93 | 730 | 2.25 | 0.14 | 39.9 |
| 4/16/2015 17:20:12 | 38.06 | 37.26 | 726 | 2.25 | 0.13 | 39.7 |
| 4/16/2015 17:20:13 | 38.39 | 37.59 | 723 | 2.26 | 0.13 | 39.5 |
| 4/16/2015 17:20:13 | 38.71 | 37.91 | 707 | 2.27 | 0.13 | 38.7 |
| 4/16/2015 17:20:14 | 39.04 | 38.24 | 707 | 2.25 | 0.13 | 38.7 |
| 4/16/2015 17:20:14 | 39.37 | 38.57 | 716 | 2.26 | 0.13 | 39.2 |
| 4/16/2015 17:20:15 | 39.70 | 38.90 | 702 | 2.26 | 0.13 | 38.4 |
| 4/16/2015 17:20:15 | 40.03 | 39.23 | 698 | 2.25 | 0.13 | 38.2 |
| 4/16/2015 17:20:16 | 40.35 | 39.55 | 696 | 2.11 | 0.13 | 38.1 |
| 4/16/2015 17:20:16 | 40.68 | 39.88 | 696 | 2.27 | 0.13 | 38.1 |
| 4/16/2015 17:20:17 | 41.01 | 40.21 | 728 | 2.25 | 0.13 | 39.8 |
| 4/16/2015 17:20:17 | 41.34 | 40.54 | 713 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 17:20:18 | 41.67 | 40.87 | 730 | 2.25 | 0.13 | 39.9 |
| 4/16/2015 17:20:19 | 41.99 | 41.19 | 730 | 2.25 | 0.13 | 39.9 |
| 4/16/2015 17:20:18 | 42.32 | 41.52 | 726 | 2.27 | 0.13 | 39.7 |
| 4/16/2015 17:20:19 | 42.65 | 41.85 | 732 | 2.25 | 0.13 | 40.0 |
| 4/16/2015 17:20:20 | 42.98 | 42.18 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:20:20 | 43.31 | 42.51 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:20:21 | 43.64 | 42.84 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:20:21 | 43.96 | 43.16 | 729 | 2.27 | 0.13 | 39.8 |
| 4/16/2015 17:20:22 | 44.29 | 43.49 | 722 | 2.25 | 0.13 | 39.5 |
| 4/16/2015 17:20:22 | 44.62 | 43.82 | 703 | 2.25 | 0.13 | 38.5 |
| 4/16/2015 17:20:23 | 44.95 | 44.15 | 703 | 2.26 | 0.12 | 38.5 |
| 4/16/2015 17:20:23 | 45.28 | 44.48 | 708 | 2.25 | 0.13 | 38.7 |
| 4/16/2015 17:20:24 | 45.60 | 44.80 | 708 | 2.27 | 0.13 | 38.7 |
| 4/16/2015 17:20:24 | 45.93 | 45.13 | 703 | 2.25 | 0.13 | 38.4 |
| 4/16/2015 17:20:25 | 46.26 | 45.46 | 704 | 2.25 | 0.09 | 38.5 |
| 4/16/2015 17:20:25 | 46.59 | 45.79 | 704 | 2.26 | 0.13 | 38.5 |
| 4/16/2015 17:20:26 | 46.92 | 46.12 | 715 | 2.26 | 0.13 | 39.1 |
| 4/16/2015 17:20:26 | 47.24 | 46.44 | 715 | 2.26 | 0.13 | 39.1 |
| 4/16/2015 17:20:27 | 47.57 | 46.77 | 712 | 2.43 | 0.13 | 38.9 |
| 4/16/2015 17:20:47 | 47.90 | 47.10 | 39 | 2.43 | 1.24 | 2.1 |
| 4/16/2015 17:20:52 | 48.23 | 47.43 | 67 | 2.49 | 1.25 | 3.7 |
| 4/16/2015 17:20:57 | 48.56 | 47.76 | 84 | 2.50 | 1.33 | 4.6 |
| 4/16/2015 17:21:01 | 48.88 | 48.08 | 77 | 2.50 | 1.32 | 4.2 |
| 4/16/2015 17:21:05 | 49.21 | 48.41 | 98 | 2.52 | 1.28 | 5.3 |
| 4/16/2015 17:21:09 | 49.54 | 48.74 | 90 | 2.51 | 1.33 | 4.9 |
| 4/16/2015 17:21:14 | 49.87 | 49.07 | 75 | 2.51 | 1.31 | 4.1 |
| 4/16/2015 17:21:19 | 50.20 | 49.40 | 60 | 2.50 | 1.30 | 3.3 |
| 4/16/2015 17:21:24 | 50.53 | 49.73 | 66 | 2.50 | 1.38 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:21:30 | 50.85 | 50.05 | 58 | 2.52 | 1.34 | 3.2 |
| 4/16/2015 | 17:21:36 | 51.18 | 50.38 | 56 | 2.51 | 1.32 | 3.1 |
| 4/16/2015 | 17:21:40 | 51.35 | 50.55 | 34 | 1.92 | 1.02 | 1.9 |

## A36 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:18:21

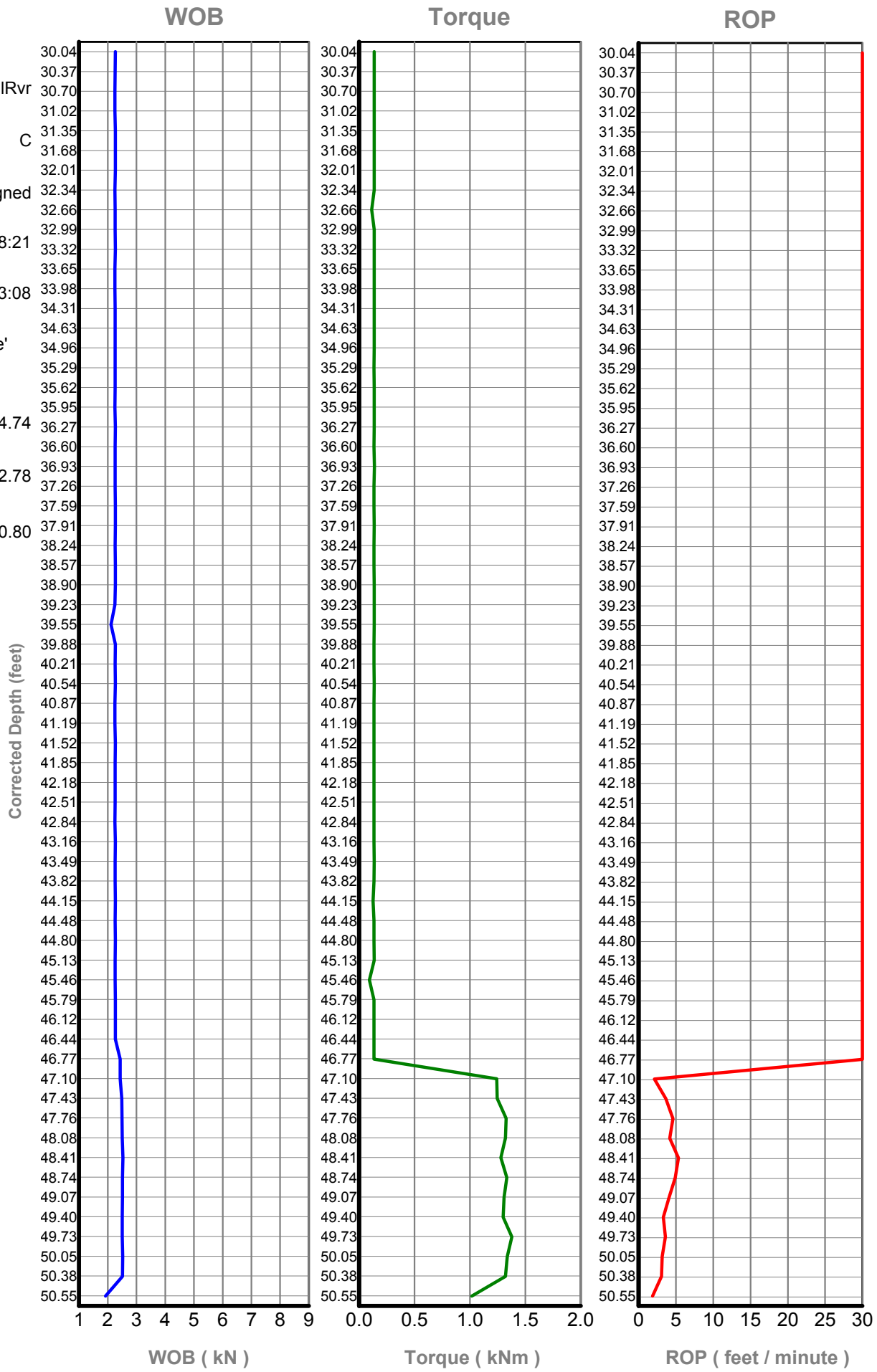
**End Date:**
4/16/2015 17:23:08

**Operator Note:**
'0.8 1.1 c Auto Complete'

**Northing:**
371,394.74

**Easting:**
259,882.78

**Tide (feet):**
0.80



## Hole: A37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 14:14:48 | 33.79 | 30.09 | 1,087 | 0.47 | 0.31 | 59.4 |
| 4/15/2015 14:14:49 | 34.12 | 30.42 | 1,087 | 0.47 | 0.31 | 59.4 |
| 4/15/2015 14:14:49 | 34.45 | 30.75 | 1,081 | 0.46 | 0.32 | 59.1 |
| 4/15/2015 14:14:50 | 34.78 | 31.08 | 1,087 | 0.46 | 0.32 | 59.4 |
| 4/15/2015 14:14:50 | 35.11 | 31.41 | 1,087 | 0.46 | 0.32 | 59.4 |
| 4/15/2015 14:14:50 | 35.43 | 31.73 | 1,075 | 0.47 | 0.32 | 58.8 |
| 4/15/2015 14:14:51 | 35.76 | 32.06 | 1,092 | 0.47 | 0.32 | 59.7 |
| 4/15/2015 14:14:51 | 36.09 | 32.39 | 1,092 | 0.47 | 0.32 | 59.7 |
| 4/15/2015 14:14:51 | 36.42 | 32.72 | 1,086 | 0.47 | 0.32 | 59.4 |
| 4/15/2015 14:14:52 | 36.75 | 33.05 | 1,086 | 0.47 | 0.32 | 59.4 |
| 4/15/2015 14:14:52 | 37.07 | 33.37 | 1,092 | 0.47 | 0.32 | 59.7 |
| 4/15/2015 14:14:52 | 37.40 | 33.70 | 1,086 | 0.47 | 0.31 | 59.4 |
| 4/15/2015 14:14:53 | 37.73 | 34.03 | 1,086 | 0.47 | 0.31 | 59.4 |
| 4/15/2015 14:14:53 | 38.06 | 34.36 | 1,101 | 0.46 | 0.31 | 60.2 |
| 4/15/2015 14:14:53 | 38.39 | 34.69 | 1,081 | 0.47 | 0.32 | 59.1 |
| 4/15/2015 14:14:54 | 38.71 | 35.01 | 1,081 | 0.47 | 0.32 | 59.1 |
| 4/15/2015 14:14:54 | 39.04 | 35.34 | 1,084 | 0.47 | 0.33 | 59.3 |
| 4/15/2015 14:14:54 | 39.37 | 35.67 | 1,075 | 0.46 | 0.31 | 58.8 |
| 4/15/2015 14:14:55 | 39.70 | 36.00 | 1,075 | 0.46 | 0.31 | 58.8 |
| 4/15/2015 14:14:55 | 40.03 | 36.33 | 1,084 | 0.47 | 0.32 | 59.3 |
| 4/15/2015 14:14:55 | 40.35 | 36.65 | 1,084 | 0.47 | 0.32 | 59.3 |
| 4/15/2015 14:14:55 | 40.68 | 36.98 | 1,072 | 0.47 | 0.32 | 58.6 |
| 4/15/2015 14:14:56 | 41.01 | 37.31 | 1,086 | 0.46 | 0.32 | 59.4 |
| 4/15/2015 14:14:56 | 41.34 | 37.64 | 1,086 | 0.46 | 0.32 | 59.4 |
| 4/15/2015 14:14:56 | 41.67 | 37.97 | 1,076 | 0.46 | 0.32 | 58.9 |
| 4/15/2015 14:14:57 | 41.99 | 38.29 | 1,082 | 0.46 | 0.32 | 59.2 |
| 4/15/2015 14:14:57 | 42.32 | 38.62 | 1,082 | 0.46 | 0.32 | 59.2 |
| 4/15/2015 14:14:57 | 42.65 | 38.95 | 1,069 | 0.46 | 0.31 | 58.5 |
| 4/15/2015 14:14:58 | 42.98 | 39.28 | 1,082 | 0.46 | 0.32 | 59.2 |
| 4/15/2015 14:14:58 | 43.31 | 39.61 | 1,082 | 0.46 | 0.32 | 59.2 |
| 4/15/2015 14:14:58 | 43.64 | 39.94 | 1,072 | 0.46 | 0.32 | 58.6 |
| 4/15/2015 14:14:59 | 43.96 | 40.26 | 1,072 | 0.46 | 0.32 | 58.6 |
| 4/15/2015 14:14:59 | 44.29 | 40.59 | 1,081 | 0.47 | 0.32 | 59.1 |
| 4/15/2015 14:14:59 | 44.62 | 40.92 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 14:15:00 | 44.95 | 41.25 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 14:15:00 | 45.28 | 41.58 | 1,085 | 0.46 | 0.32 | 59.3 |
| 4/15/2015 14:15:01 | 45.60 | 41.90 | 1,078 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 14:15:01 | 45.93 | 42.23 | 1,078 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 14:15:01 | 46.26 | 42.56 | 1,078 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 14:15:02 | 46.59 | 42.89 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 14:15:02 | 46.92 | 43.22 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 14:15:02 | 47.24 | 43.54 | 1,075 | 0.45 | 0.32 | 58.8 |
| 4/15/2015 14:15:03 | 47.57 | 43.87 | 1,075 | 0.45 | 0.32 | 58.8 |
| 4/15/2015 14:15:23 | 47.90 | 44.20 | 46 | 4.09 | 0.45 | 2.5 |
| 4/15/2015 14:15:34 | 48.23 | 44.53 | 43 | 3.79 | 0.46 | 2.3 |
| 4/15/2015 14:15:43 | 48.56 | 44.86 | 38 | 4.59 | 0.46 | 2.1 |
| 4/15/2015 14:15:51 | 48.88 | 45.18 | 49 | 4.53 | 0.45 | 2.7 |
| 4/15/2015 14:16:11 | 49.14 | 45.44 | 9 | 4.69 | 0.44 | 0.5 |

## A37 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 14:13:06

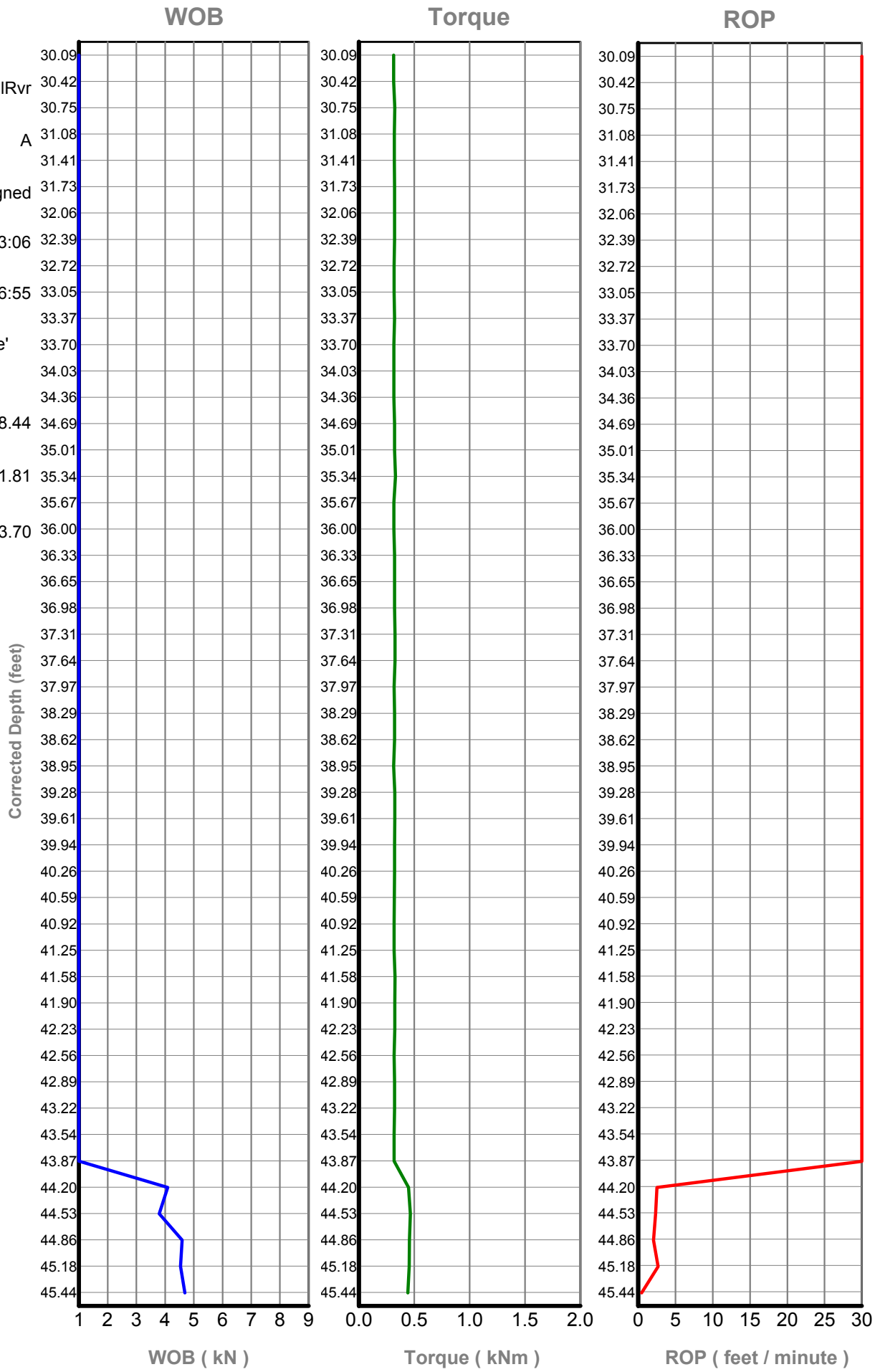
**End Date:**
4/15/2015 14:16:55

**Operator Note:**
'3.7 4.0 a Auto Complete'

**Northing:**
371,388.44

**Easting:**
259,951.81

**Tide (feet):**
3.70



## Hole: A38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:30:12 | 33.79 | 30.29 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 14:30:12 | 34.12 | 30.62 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 14:30:13 | 34.45 | 30.95 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:30:13 | 34.78 | 31.28 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:30:14 | 35.11 | 31.61 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 14:30:14 | 35.43 | 31.93 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:30:15 | 35.76 | 32.26 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:30:15 | 36.09 | 32.59 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 14:30:15 | 36.42 | 32.92 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 14:30:16 | 36.75 | 33.25 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 14:30:16 | 37.07 | 33.57 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 14:30:17 | 37.40 | 33.90 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 14:30:17 | 37.73 | 34.23 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 14:30:17 | 38.06 | 34.56 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:18 | 38.39 | 34.89 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:30:18 | 38.71 | 35.21 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:30:18 | 39.04 | 35.54 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 14:30:19 | 39.37 | 35.87 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:19 | 39.70 | 36.20 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:20 | 40.03 | 36.53 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:20 | 40.35 | 36.85 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 14:30:20 | 40.68 | 37.18 | 916 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 14:30:21 | 41.01 | 37.51 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:21 | 41.34 | 37.84 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:21 | 41.67 | 38.17 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:30:22 | 41.99 | 38.49 | 904 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 14:30:22 | 42.32 | 38.82 | 910 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 14:30:23 | 42.65 | 39.15 | 910 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 14:30:23 | 42.98 | 39.48 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 14:30:23 | 43.31 | 39.81 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 14:30:24 | 43.64 | 40.14 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:24 | 43.96 | 40.46 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:24 | 44.29 | 40.79 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 14:30:25 | 44.62 | 41.12 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 14:30:26 | 44.95 | 41.45 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 14:30:26 | 45.28 | 41.78 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 14:30:26 | 45.60 | 42.10 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 14:30:27 | 45.93 | 42.43 | 899 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 14:30:27 | 46.26 | 42.76 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 14:30:28 | 46.59 | 43.09 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 14:30:28 | 46.92 | 43.42 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 14:30:28 | 47.24 | 43.74 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:30:29 | 47.57 | 44.07 | 904 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 14:30:29 | 47.90 | 44.40 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:30:30 | 48.23 | 44.73 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 14:31:00 | 48.56 | 45.06 | 29 | 0.29 | 0.42 | 1.6 |
| 4/16/2015 14:31:02 | 48.88 | 45.38 | 149 | 0.29 | 0.42 | 8.1 |
| 4/16/2015 14:31:10 | 49.21 | 45.71 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 14:31:14 | 49.54 | 46.04 | 122 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 14:31:18 | 49.87 | 46.37 | 93 | 0.29 | 0.42 | 5.1 |
| 4/16/2015 14:31:22 | 50.20 | 46.70 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 14:31:28 | 50.53 | 47.03 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 14:31:41 | 50.85 | 47.35 | 61 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 14:31:46 | 51.18 | 47.68 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 14:31:52 | 51.51 | 48.01 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 14:31:56 | 51.84 | 48.34 | 81 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 14:32:01 | 52.17 | 48.67 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 14:32:06 | 52.49 | 48.99 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 14:32:10 | 52.82 | 49.32 | 78 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 14:32:15 | 53.15 | 49.65 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 14:32:20 | 53.48 | 49.98 | 67 | 0.29 | 0.42 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:32:25 | 53.81 | 50.31 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 14:32:31 | 54.13 | 50.63 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 14:32:36 | 54.46 | 50.96 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 14:32:41 | 54.79 | 51.29 | 78 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 14:32:46 | 55.12 | 51.62 | 72 | 0.29 | 0.42 | 3.9 |
| 4/16/2015 | 14:32:51 | 55.45 | 51.95 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 14:32:56 | 55.77 | 52.27 | 66 | 0.29 | 0.42 | 3.6 |
| 4/16/2015 | 14:33:04 | 56.10 | 52.60 | 48 | 0.29 | 0.42 | 2.6 |
| 4/16/2015 | 14:33:12 | 56.43 | 52.93 | 44 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 14:33:17 | 56.76 | 53.26 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 14:33:23 | 57.09 | 53.59 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 14:33:29 | 57.41 | 53.91 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 14:33:37 | 57.74 | 54.24 | 41 | 0.29 | 0.42 | 2.2 |
| 4/16/2015 | 14:34:09 | 58.07 | 54.57 | 18 | 0.29 | 0.42 | 1.0 |
| 4/16/2015 | 14:34:15 | 58.40 | 54.90 | 68 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 14:34:19 | 58.73 | 55.23 | 78 | 0.29 | 0.42 | 4.2 |

## A38 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:28:05

**End Date:**
4/16/2015 14:37:44

**Operator Note:**
'3.5 3.7 b The ROP was betwwen 2 and 4'

**Northing:**
371,389.33

**Easting:**
260,026.80

**Tide (feet):**
3.50



## Hole: A39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:16:29 | 35.76 | 30.06 | 1,170 | 1.83 | 0.36 | 64.0 |
| 4/17/2015 11:16:29 | 36.09 | 30.39 | 1,152 | 1.84 | 0.36 | 63.0 |
| 4/17/2015 11:16:30 | 36.42 | 30.72 | 1,152 | 1.84 | 0.36 | 63.0 |
| 4/17/2015 11:16:30 | 36.75 | 31.05 | 1,152 | 1.83 | 0.36 | 63.0 |
| 4/17/2015 11:16:30 | 37.07 | 31.37 | 1,152 | 1.83 | 0.36 | 63.0 |
| 4/17/2015 11:16:30 | 37.40 | 31.70 | 1,158 | 1.83 | 0.36 | 63.3 |
| 4/17/2015 11:16:31 | 37.73 | 32.03 | 1,136 | 1.85 | 0.35 | 62.1 |
| 4/17/2015 11:16:31 | 38.06 | 32.36 | 1,136 | 1.85 | 0.35 | 62.1 |
| 4/17/2015 11:16:31 | 38.39 | 32.69 | 1,143 | 1.83 | 0.35 | 62.5 |
| 4/17/2015 11:16:32 | 38.71 | 33.01 | 1,143 | 1.83 | 0.35 | 62.5 |
| 4/17/2015 11:16:32 | 39.04 | 33.34 | 1,123 | 1.85 | 0.35 | 61.4 |
| 4/17/2015 11:16:32 | 39.37 | 33.67 | 1,123 | 1.84 | 0.36 | 61.4 |
| 4/17/2015 11:16:33 | 39.70 | 34.00 | 1,123 | 1.84 | 0.36 | 61.4 |
| 4/17/2015 11:16:33 | 40.03 | 34.33 | 1,160 | 1.81 | 0.36 | 63.5 |
| 4/17/2015 11:16:33 | 40.35 | 34.65 | 1,160 | 1.81 | 0.36 | 63.5 |
| 4/17/2015 11:16:33 | 40.68 | 34.98 | 1,149 | 1.85 | 0.36 | 62.8 |
| 4/17/2015 11:16:34 | 41.01 | 35.31 | 1,162 | 1.81 | 0.36 | 63.6 |
| 4/17/2015 11:16:34 | 41.34 | 35.64 | 1,162 | 1.81 | 0.36 | 63.6 |
| 4/17/2015 11:16:34 | 41.67 | 35.97 | 1,152 | 1.83 | 0.35 | 63.0 |
| 4/17/2015 11:16:35 | 41.99 | 36.29 | 1,152 | 1.83 | 0.35 | 63.0 |
| 4/17/2015 11:16:35 | 42.32 | 36.62 | 1,173 | 1.84 | 0.37 | 64.1 |
| 4/17/2015 11:16:35 | 42.65 | 36.95 | 1,144 | 1.81 | 0.36 | 62.5 |
| 4/17/2015 11:16:36 | 42.98 | 37.28 | 1,144 | 1.81 | 0.36 | 62.5 |
| 4/17/2015 11:16:36 | 43.31 | 37.61 | 1,158 | 1.83 | 0.36 | 63.3 |
| 4/17/2015 11:16:36 | 43.64 | 37.94 | 1,158 | 1.83 | 0.36 | 63.3 |
| 4/17/2015 11:16:36 | 43.96 | 38.26 | 1,158 | 1.81 | 0.35 | 63.3 |
| 4/17/2015 11:16:37 | 44.29 | 38.59 | 1,158 | 1.81 | 0.35 | 63.3 |
| 4/17/2015 11:16:37 | 44.62 | 38.92 | 1,161 | 1.81 | 0.36 | 63.5 |
| 4/17/2015 11:16:38 | 44.95 | 39.25 | 1,154 | 1.83 | 0.36 | 63.1 |
| 4/17/2015 11:16:38 | 45.28 | 39.58 | 1,154 | 1.83 | 0.36 | 63.1 |
| 4/17/2015 11:16:38 | 45.60 | 39.90 | 1,176 | 1.82 | 0.35 | 64.3 |
| 4/17/2015 11:16:39 | 45.93 | 40.23 | 1,176 | 1.82 | 0.35 | 64.3 |
| 4/17/2015 11:16:39 | 46.26 | 40.56 | 1,156 | 1.83 | 0.36 | 63.2 |
| 4/17/2015 11:16:39 | 46.59 | 40.89 | 1,156 | 1.83 | 0.36 | 63.2 |
| 4/17/2015 11:16:40 | 46.92 | 41.22 | 1,156 | 1.83 | 0.36 | 63.2 |
| 4/17/2015 11:16:40 | 47.24 | 41.54 | 1,153 | 1.81 | 0.36 | 63.1 |
| 4/17/2015 11:16:40 | 47.57 | 41.87 | 1,153 | 1.81 | 0.36 | 63.1 |
| 4/17/2015 11:16:40 | 47.90 | 42.20 | 1,159 | 1.83 | 0.36 | 63.4 |
| 4/17/2015 11:16:41 | 48.23 | 42.53 | 1,153 | 1.66 | 0.35 | 63.1 |
| 4/17/2015 11:16:41 | 48.56 | 42.86 | 1,153 | 1.66 | 0.35 | 63.1 |
| 4/17/2015 11:16:41 | 48.88 | 43.18 | 1,156 | 1.85 | 0.36 | 63.2 |
| 4/17/2015 11:16:42 | 49.21 | 43.51 | 1,156 | 1.85 | 0.36 | 63.2 |
| 4/17/2015 11:16:42 | 49.54 | 43.84 | 1,150 | 1.83 | 0.35 | 62.9 |
| 4/17/2015 11:16:42 | 49.87 | 44.17 | 1,162 | 1.81 | 0.36 | 63.5 |
| 4/17/2015 11:16:43 | 50.20 | 44.50 | 1,162 | 1.81 | 0.36 | 63.5 |
| 4/17/2015 11:16:43 | 50.53 | 44.83 | 1,153 | 2.09 | 0.37 | 63.1 |
| 4/17/2015 11:16:43 | 50.85 | 45.15 | 1,092 | 3.13 | 0.44 | 59.7 |
| 4/17/2015 11:16:53 | 51.18 | 45.48 | 29 | 3.46 | 0.51 | 1.6 |
| 4/17/2015 11:16:54 | 51.51 | 45.81 | 184 | 4.34 | 0.56 | 10.1 |
| 4/17/2015 11:16:56 | 51.84 | 46.14 | 272 | 4.14 | 0.55 | 14.9 |
| 4/17/2015 11:16:57 | 52.17 | 46.47 | 217 | 3.96 | 0.55 | 11.9 |
| 4/17/2015 11:17:00 | 52.49 | 46.79 | 188 | 4.30 | 0.58 | 10.3 |
| 4/17/2015 11:17:02 | 52.82 | 47.12 | 153 | 3.94 | 0.58 | 8.4 |
| 4/17/2015 11:17:05 | 53.15 | 47.45 | 115 | 4.31 | 0.57 | 6.3 |
| 4/17/2015 11:17:08 | 53.48 | 47.78 | 140 | 3.71 | 0.55 | 7.7 |
| 4/17/2015 11:17:10 | 53.81 | 48.11 | 161 | 3.98 | 0.57 | 8.8 |
| 4/17/2015 11:17:13 | 54.13 | 48.43 | 140 | 3.92 | 0.57 | 7.7 |
| 4/17/2015 11:17:16 | 54.46 | 48.76 | 113 | 3.95 | 0.57 | 6.2 |
| 4/17/2015 11:17:20 | 54.79 | 49.09 | 109 | 4.07 | 0.57 | 6.0 |
| 4/17/2015 11:17:23 | 55.12 | 49.42 | 101 | 3.93 | 0.58 | 5.5 |
| 4/17/2015 11:17:27 | 55.45 | 49.75 | 84 | 3.79 | 0.58 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:17:32 | 55.77 | 50.07 | 77 | 3.91 | 0.57 | 4.2 |
| 4/17/2015 | 11:17:39 | 56.10 | 50.40 | 39 | 4.21 | 0.59 | 2.1 |
| 4/17/2015 | 11:17:44 | 56.43 | 50.73 | 66 | 3.48 | 0.43 | 3.6 |
| 4/17/2015 | 11:17:46 | 56.76 | 51.06 | 163 | 3.67 | 0.49 | 8.9 |
| 4/17/2015 | 11:17:48 | 57.09 | 51.39 | 177 | 3.71 | 0.50 | 9.7 |
| 4/17/2015 | 11:17:50 | 57.41 | 51.71 | 183 | 3.82 | 0.51 | 10.0 |
| 4/17/2015 | 11:17:52 | 57.74 | 52.04 | 187 | 3.58 | 0.50 | 10.2 |
| 4/17/2015 | 11:17:54 | 58.07 | 52.37 | 161 | 3.89 | 0.51 | 8.8 |
| 4/17/2015 | 11:17:58 | 58.40 | 52.70 | 107 | 4.66 | 0.54 | 5.9 |
| 4/17/2015 | 11:18:01 | 58.73 | 53.03 | 113 | 5.14 | 0.52 | 6.2 |
| 4/17/2015 | 11:18:03 | 59.06 | 53.36 | 142 | 4.20 | 0.51 | 7.7 |
| 4/17/2015 | 11:18:06 | 59.38 | 53.68 | 114 | 4.29 | 0.50 | 6.2 |
| 4/17/2015 | 11:18:09 | 59.71 | 54.01 | 133 | 3.37 | 0.49 | 7.3 |
| 4/17/2015 | 11:18:12 | 60.04 | 54.34 | 142 | 3.45 | 0.53 | 7.8 |
| 4/17/2015 | 11:18:15 | 60.37 | 54.67 | 125 | 3.49 | 0.53 | 6.8 |
| 4/17/2015 | 11:18:23 | 60.69 | 54.99 | 36 | 3.16 | 0.18 | 2.0 |

## A39 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:14:59

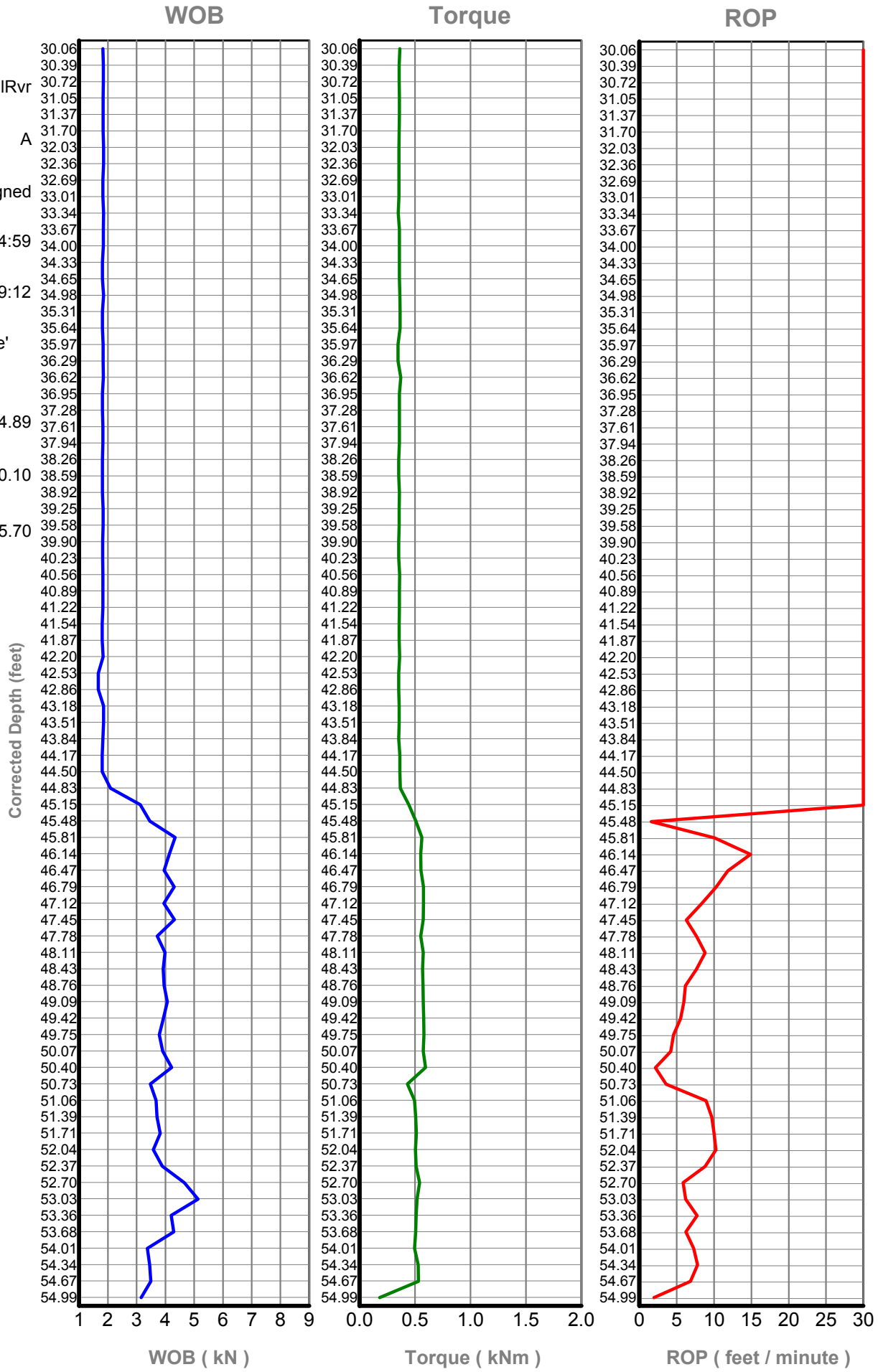
**End Date:**
4/17/2015 11:19:12

**Operator Note:**
'5.7 5.6 a Auto Complete'

**Northing:**
371,344.89

**Easting:**
259,060.10

**Tide (feet):**
5.70



## Hole: A4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 16:13:56 | 32.15 | 30.15 | 1,151 | 0.47 | 0.33 | 63.0 |
| 4/16/2015 16:13:57 | 32.48 | 30.48 | 1,151 | 0.47 | 0.33 | 63.0 |
| 4/16/2015 16:13:57 | 32.81 | 30.81 | 1,147 | 0.47 | 0.35 | 62.7 |
| 4/16/2015 16:13:57 | 33.14 | 31.14 | 1,183 | 0.46 | 0.33 | 64.7 |
| 4/16/2015 16:13:58 | 33.46 | 31.46 | 1,183 | 0.46 | 0.33 | 64.7 |
| 4/16/2015 16:13:58 | 33.79 | 31.79 | 1,143 | 0.47 | 0.34 | 62.5 |
| 4/16/2015 16:13:58 | 34.12 | 32.12 | 1,132 | 0.47 | 0.40 | 61.9 |
| 4/16/2015 16:14:09 | 34.45 | 32.45 | 9 | 1.49 | 0.35 | 0.5 |
| 4/16/2015 16:14:16 | 34.78 | 32.78 | 6 | 2.63 | 0.43 | 0.3 |
| 4/16/2015 16:14:16 | 35.11 | 33.11 | 140 | 2.61 | 0.42 | 7.7 |
| 4/16/2015 16:14:17 | 35.43 | 33.43 | 282 | 2.75 | 0.43 | 15.4 |
| 4/16/2015 16:14:17 | 35.76 | 33.76 | 419 | 2.84 | 0.44 | 22.9 |
| 4/16/2015 16:14:47 | 36.09 | 34.09 | 13 | 3.51 | 0.40 | 0.7 |
| 4/16/2015 16:14:59 | 36.42 | 34.42 | 33 | 3.45 | 0.38 | 1.8 |
| 4/16/2015 16:15:10 | 36.75 | 34.75 | 36 | 3.58 | 0.38 | 2.0 |
| 4/16/2015 16:15:19 | 37.07 | 35.07 | 48 | 5.37 | 0.35 | 2.6 |
| 4/16/2015 16:15:22 | 37.20 | 35.20 | 32 | 3.46 | 0.15 | 1.7 |

## A4 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/16/2015 16:08:19

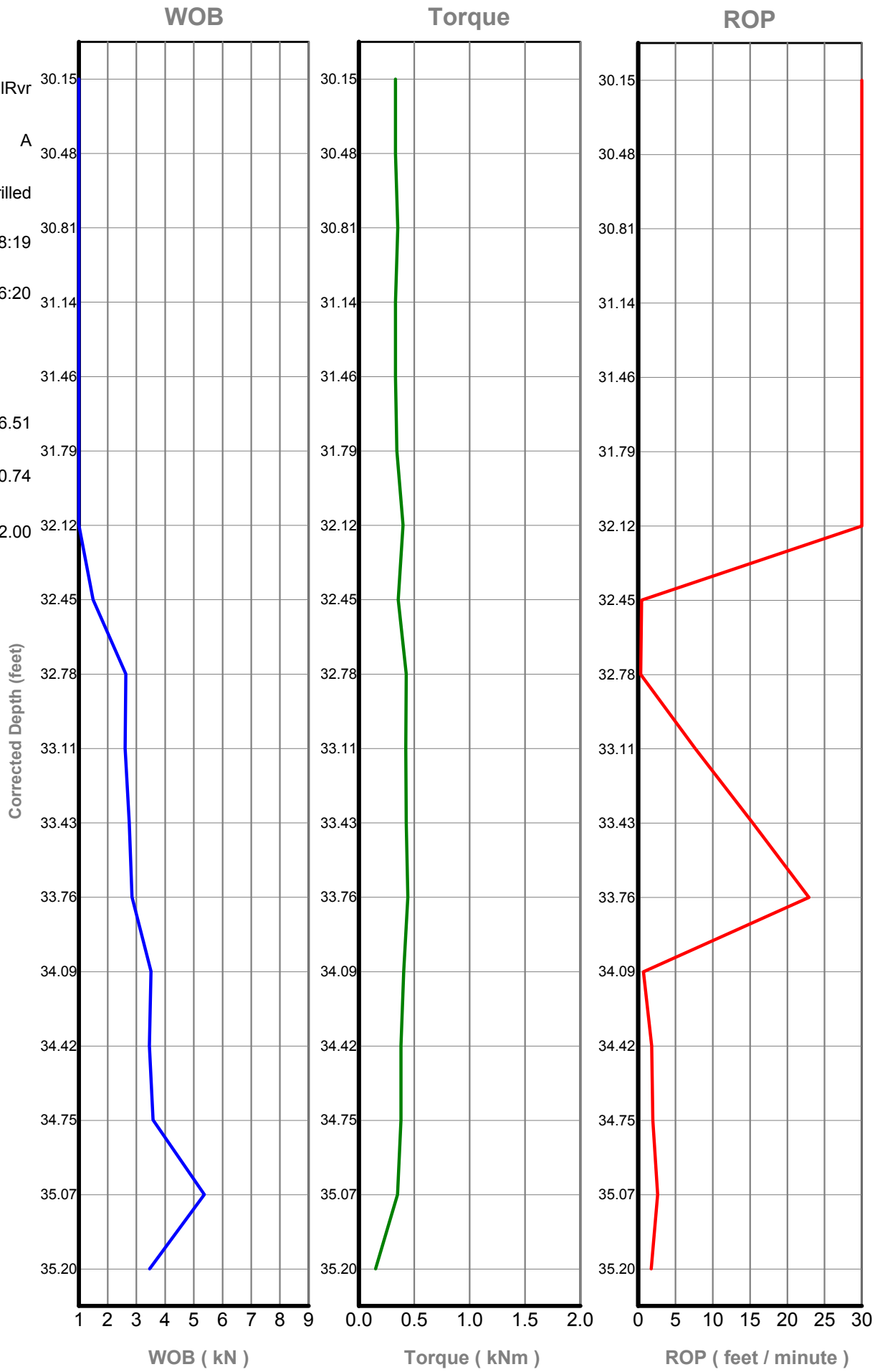
**End Date:**
4/16/2015 16:16:20

**Operator Note:**
'2 2.2 a Auto Complete'

**Northing:**
371,626.51

**Easting:**
259,740.74

**Tide (feet):**
2.00



## Hole: A40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:14:27 | 35.76 | 30.06 | 994 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 11:14:27 | 36.09 | 30.39 | 981 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:28 | 36.42 | 30.72 | 981 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:28 | 36.75 | 31.05 | 981 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:28 | 37.07 | 31.37 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:29 | 37.40 | 31.70 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:29 | 37.73 | 32.03 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:29 | 38.06 | 32.36 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:30 | 38.39 | 32.69 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:14:30 | 38.71 | 33.01 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:14:30 | 39.04 | 33.34 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 11:14:31 | 39.37 | 33.67 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:14:31 | 39.70 | 34.00 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:14:32 | 40.03 | 34.33 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:14:32 | 40.35 | 34.65 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:14:32 | 40.68 | 34.98 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:33 | 41.01 | 35.31 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:33 | 41.34 | 35.64 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:14:34 | 41.67 | 35.97 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:14:34 | 41.99 | 36.29 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:14:34 | 42.32 | 36.62 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:14:35 | 42.65 | 36.95 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:14:35 | 42.98 | 37.28 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:36 | 43.31 | 37.61 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:36 | 43.64 | 37.94 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:14:36 | 43.96 | 38.26 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:14:37 | 44.29 | 38.59 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:14:37 | 44.62 | 38.92 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:14:37 | 44.95 | 39.25 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:14:38 | 45.28 | 39.58 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:38 | 45.60 | 39.90 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:14:38 | 45.93 | 40.23 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:14:39 | 46.26 | 40.56 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:14:39 | 46.59 | 40.89 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:14:39 | 46.92 | 41.22 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:40 | 47.24 | 41.54 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:40 | 47.57 | 41.87 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:40 | 47.90 | 42.20 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:14:41 | 48.23 | 42.53 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:14:41 | 48.56 | 42.86 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:14:42 | 48.88 | 43.18 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:14:42 | 49.21 | 43.51 | 991 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:14:42 | 49.54 | 43.84 | 991 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:14:43 | 49.87 | 44.17 | 991 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:14:43 | 50.20 | 44.50 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:14:43 | 50.53 | 44.83 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:44 | 50.85 | 45.15 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:14:44 | 51.18 | 45.48 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:14:54 | 51.51 | 45.81 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 11:14:58 | 51.84 | 46.14 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 11:15:03 | 52.17 | 46.47 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 11:15:08 | 52.49 | 46.79 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 11:15:16 | 52.82 | 47.12 | 32 | 0.29 | 0.42 | 1.8 |
| 4/17/2015 11:15:19 | 53.15 | 47.45 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 11:15:22 | 53.48 | 47.78 | 142 | 0.29 | 0.42 | 7.7 |
| 4/17/2015 11:15:24 | 53.81 | 48.11 | 149 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 11:15:26 | 54.13 | 48.43 | 171 | 0.29 | 0.42 | 9.4 |
| 4/17/2015 11:15:27 | 54.46 | 48.76 | 190 | 0.29 | 0.42 | 10.4 |
| 4/17/2015 11:15:34 | 54.79 | 49.09 | 51 | 0.29 | 0.42 | 2.8 |
| 4/17/2015 11:15:36 | 55.12 | 49.42 | 173 | 0.29 | 0.42 | 9.5 |
| 4/17/2015 11:15:38 | 55.45 | 49.75 | 223 | 0.29 | 0.42 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:15:40 | 55.77 | 50.07 | 157 | 0.29 | 0.42 | 8.6 |
| 4/17/2015 | 11:15:44 | 56.10 | 50.40 | 99 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 | 11:15:47 | 56.43 | 50.73 | 119 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 11:15:50 | 56.76 | 51.06 | 118 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 11:15:53 | 57.09 | 51.39 | 98 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 | 11:15:58 | 57.41 | 51.71 | 76 | 0.29 | 0.42 | 4.1 |
| 4/17/2015 | 11:16:02 | 57.74 | 52.04 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 11:16:06 | 58.07 | 52.37 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 11:16:10 | 58.40 | 52.70 | 96 | 0.29 | 0.42 | 5.2 |
| 4/17/2015 | 11:16:14 | 58.73 | 53.03 | 99 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 | 11:16:17 | 59.06 | 53.36 | 113 | 0.29 | 0.42 | 6.2 |
| 4/17/2015 | 11:16:20 | 59.38 | 53.68 | 137 | 0.29 | 0.42 | 7.5 |
| 4/17/2015 | 11:16:22 | 59.71 | 54.01 | 154 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 | 11:16:24 | 60.04 | 54.34 | 142 | 0.29 | 0.42 | 7.8 |
| 4/17/2015 | 11:16:26 | 60.37 | 54.67 | 146 | 0.29 | 0.42 | 8.0 |
| 4/17/2015 | 11:16:28 | 60.70 | 55.00 | 194 | 0.29 | 0.42 | 10.6 |

## A40 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:12:35

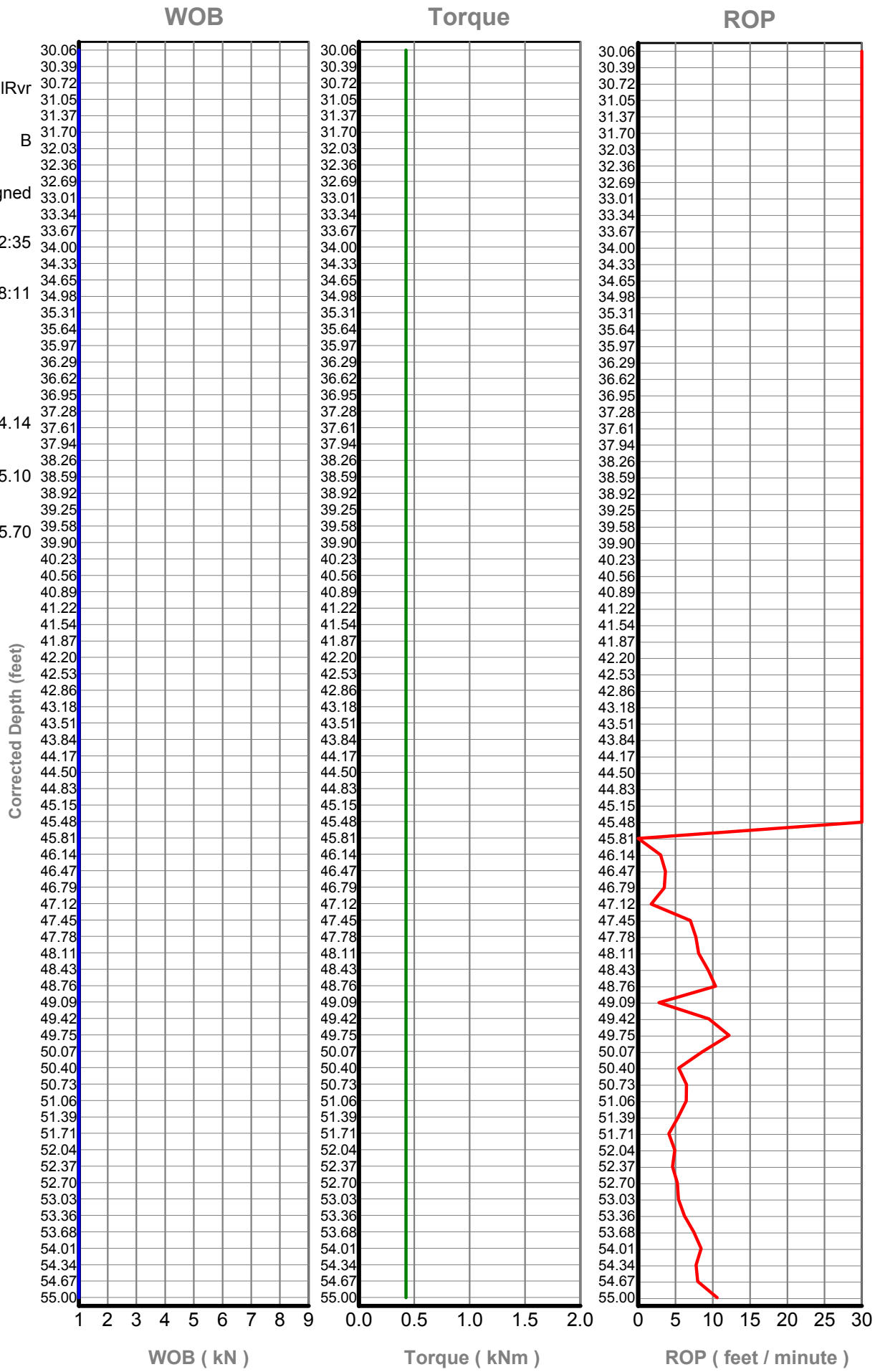
**End Date:**
4/17/2015 11:18:11

**Operator Note:**
'5.7 5.6 b No rock'

**Northing:**
371,344.14

**Easting:**
259,135.10

**Tide (feet):**
5.70



## Hole: A41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:15:48 | 35.76 | 30.06 | 655 | 2.06 | 0.29 | 35.8 |
| 4/17/2015 11:15:49 | 36.09 | 30.39 | 645 | 2.17 | 0.29 | 35.3 |
| 4/17/2015 11:15:49 | 36.42 | 30.72 | 640 | 2.16 | 0.29 | 35.0 |
| 4/17/2015 11:15:50 | 36.75 | 31.05 | 640 | 2.14 | 0.29 | 35.0 |
| 4/17/2015 11:15:51 | 37.07 | 31.37 | 612 | 2.16 | 0.29 | 33.5 |
| 4/17/2015 11:15:51 | 37.40 | 31.70 | 612 | 2.15 | 0.29 | 33.5 |
| 4/17/2015 11:15:52 | 37.73 | 32.03 | 621 | 2.15 | 0.28 | 33.9 |
| 4/17/2015 11:15:52 | 38.06 | 32.36 | 611 | 2.15 | 0.28 | 33.4 |
| 4/17/2015 11:15:53 | 38.39 | 32.69 | 607 | 2.14 | 0.29 | 33.2 |
| 4/17/2015 11:15:53 | 38.71 | 33.01 | 607 | 2.15 | 0.29 | 33.2 |
| 4/17/2015 11:15:54 | 39.04 | 33.34 | 607 | 2.15 | 0.29 | 33.2 |
| 4/17/2015 11:15:54 | 39.37 | 33.67 | 626 | 2.15 | 0.28 | 34.3 |
| 4/17/2015 11:15:55 | 39.70 | 34.00 | 600 | 2.16 | 0.28 | 32.8 |
| 4/17/2015 11:15:56 | 40.03 | 34.33 | 614 | 2.16 | 0.28 | 33.6 |
| 4/17/2015 11:15:56 | 40.35 | 34.65 | 625 | 2.14 | 0.28 | 34.2 |
| 4/17/2015 11:15:57 | 40.68 | 34.98 | 602 | 2.15 | 0.28 | 32.9 |
| 4/17/2015 11:15:57 | 41.01 | 35.31 | 605 | 2.14 | 0.28 | 33.1 |
| 4/17/2015 11:15:58 | 41.34 | 35.64 | 605 | 2.14 | 0.28 | 33.1 |
| 4/17/2015 11:15:59 | 41.67 | 35.97 | 629 | 2.15 | 0.28 | 34.4 |
| 4/17/2015 11:15:59 | 41.99 | 36.29 | 622 | 2.14 | 0.28 | 34.0 |
| 4/17/2015 11:16:00 | 42.32 | 36.62 | 614 | 2.14 | 0.28 | 33.6 |
| 4/17/2015 11:16:00 | 42.65 | 36.95 | 630 | 2.14 | 0.28 | 34.4 |
| 4/17/2015 11:16:01 | 42.98 | 37.28 | 606 | 2.15 | 0.28 | 33.2 |
| 4/17/2015 11:16:02 | 43.31 | 37.61 | 611 | 2.15 | 0.28 | 33.4 |
| 4/17/2015 11:16:02 | 43.64 | 37.94 | 611 | 2.16 | 0.28 | 33.4 |
| 4/17/2015 11:16:03 | 43.96 | 38.26 | 598 | 2.15 | 0.28 | 32.7 |
| 4/17/2015 11:16:03 | 44.29 | 38.59 | 598 | 2.14 | 0.28 | 32.7 |
| 4/17/2015 11:16:04 | 44.62 | 38.92 | 606 | 2.14 | 0.28 | 33.1 |
| 4/17/2015 11:16:04 | 44.95 | 39.25 | 621 | 2.15 | 0.28 | 34.0 |
| 4/17/2015 11:16:05 | 45.28 | 39.58 | 596 | 2.14 | 0.28 | 32.6 |
| 4/17/2015 11:16:05 | 45.60 | 39.90 | 596 | 2.14 | 0.28 | 32.6 |
| 4/17/2015 11:16:06 | 45.93 | 40.23 | 619 | 2.15 | 0.28 | 33.9 |
| 4/17/2015 11:16:07 | 46.26 | 40.56 | 619 | 2.14 | 0.28 | 33.9 |
| 4/17/2015 11:16:07 | 46.59 | 40.89 | 610 | 2.14 | 0.28 | 33.3 |
| 4/17/2015 11:16:08 | 46.92 | 41.22 | 630 | 2.15 | 0.28 | 34.5 |
| 4/17/2015 11:16:09 | 47.24 | 41.54 | 631 | 2.14 | 0.27 | 34.5 |
| 4/17/2015 11:16:09 | 47.57 | 41.87 | 624 | 2.14 | 0.27 | 34.1 |
| 4/17/2015 11:16:10 | 47.90 | 42.20 | 617 | 2.15 | 0.27 | 33.7 |
| 4/17/2015 11:16:10 | 48.23 | 42.53 | 623 | 2.14 | 0.27 | 34.0 |
| 4/17/2015 11:16:11 | 48.56 | 42.86 | 604 | 2.14 | 0.27 | 33.0 |
| 4/17/2015 11:16:12 | 48.88 | 43.18 | 604 | 2.15 | 0.27 | 33.0 |
| 4/17/2015 11:16:12 | 49.21 | 43.51 | 606 | 2.14 | 0.27 | 33.1 |
| 4/17/2015 11:16:13 | 49.54 | 43.84 | 612 | 2.16 | 0.27 | 33.5 |
| 4/17/2015 11:16:13 | 49.87 | 44.17 | 617 | 2.15 | 0.27 | 33.7 |
| 4/17/2015 11:16:14 | 50.20 | 44.50 | 612 | 2.16 | 0.27 | 33.5 |
| 4/17/2015 11:16:14 | 50.53 | 44.83 | 625 | 2.15 | 0.27 | 34.2 |
| 4/17/2015 11:16:15 | 50.85 | 45.15 | 612 | 2.15 | 0.27 | 33.5 |
| 4/17/2015 11:16:15 | 51.18 | 45.48 | 611 | 2.15 | 0.27 | 33.4 |
| 4/17/2015 11:16:16 | 51.51 | 45.81 | 603 | 2.17 | 0.27 | 33.0 |
| 4/17/2015 11:16:17 | 51.84 | 46.14 | 597 | 2.27 | 0.27 | 32.6 |
| 4/17/2015 11:16:45 | 52.17 | 46.47 | 23 | 2.17 | 0.94 | 1.2 |
| 4/17/2015 11:16:46 | 52.49 | 46.79 | 128 | 2.17 | 0.94 | 7.0 |
| 4/17/2015 11:16:47 | 52.82 | 47.12 | 346 | 2.19 | 0.97 | 18.9 |
| 4/17/2015 11:16:47 | 53.15 | 47.45 | 449 | 2.20 | 1.05 | 24.6 |
| 4/17/2015 11:16:48 | 53.48 | 47.78 | 475 | 2.24 | 1.18 | 26.0 |
| 4/17/2015 11:16:51 | 53.81 | 48.11 | 177 | 2.28 | 1.19 | 9.7 |
| 4/17/2015 11:16:53 | 54.13 | 48.43 | 122 | 2.38 | 1.20 | 6.6 |
| 4/17/2015 11:16:56 | 54.46 | 48.76 | 162 | 2.35 | 1.18 | 8.9 |
| 4/17/2015 11:16:58 | 54.79 | 49.09 | 121 | 2.35 | 1.21 | 6.6 |
| 4/17/2015 11:17:02 | 55.12 | 49.42 | 124 | 2.36 | 1.19 | 6.8 |
| 4/17/2015 11:17:04 | 55.45 | 49.75 | 121 | 2.36 | 1.19 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:17:07 | 55.77 | 50.07 | 144 | 2.36 | 1.19 | 7.9 |
| 4/17/2015 | 11:17:09 | 56.10 | 50.40 | 136 | 2.37 | 1.29 | 7.4 |
| 4/17/2015 | 11:17:13 | 56.43 | 50.73 | 103 | 2.37 | 1.22 | 5.6 |
| 4/17/2015 | 11:17:16 | 56.76 | 51.06 | 133 | 2.35 | 1.28 | 7.3 |
| 4/17/2015 | 11:17:17 | 57.09 | 51.39 | 190 | 2.32 | 1.12 | 10.4 |
| 4/17/2015 | 11:17:19 | 57.41 | 51.71 | 214 | 2.36 | 1.27 | 11.7 |
| 4/17/2015 | 11:17:21 | 57.74 | 52.04 | 216 | 2.35 | 1.27 | 11.8 |
| 4/17/2015 | 11:17:23 | 58.07 | 52.37 | 173 | 2.36 | 1.19 | 9.5 |
| 4/17/2015 | 11:17:26 | 58.40 | 52.70 | 118 | 2.40 | 1.18 | 6.4 |
| 4/17/2015 | 11:17:29 | 58.73 | 53.03 | 102 | 2.38 | 1.15 | 5.6 |
| 4/17/2015 | 11:17:33 | 59.06 | 53.36 | 98 | 2.38 | 1.20 | 5.4 |
| 4/17/2015 | 11:17:37 | 59.38 | 53.68 | 95 | 2.38 | 1.18 | 5.2 |
| 4/17/2015 | 11:17:41 | 59.71 | 54.01 | 87 | 2.37 | 1.17 | 4.8 |
| 4/17/2015 | 11:17:45 | 60.04 | 54.34 | 98 | 2.36 | 1.17 | 5.3 |
| 4/17/2015 | 11:17:48 | 60.37 | 54.67 | 94 | 2.37 | 1.17 | 5.2 |
| 4/17/2015 | 11:17:51 | 60.64 | 54.94 | 81 | 2.34 | 1.15 | 4.4 |

## A41 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:14:12

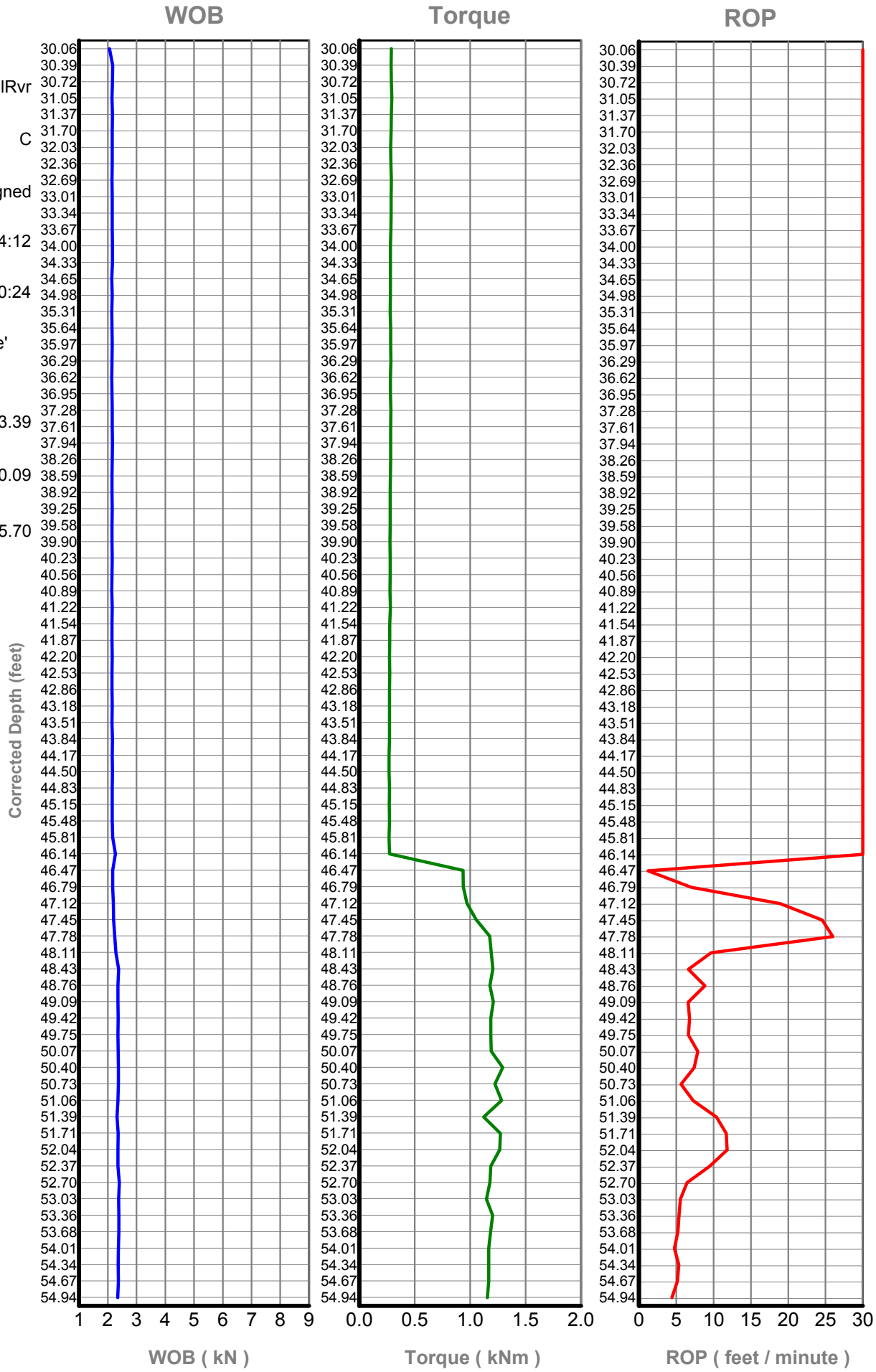
**End Date:**
4/17/2015 11:20:24

**Operator Note:**
'5.7 5.6 c Auto Complete'

**Northing:**
371,343.39

**Easting:**
259,210.09

**Tide (feet):**
5.70



## Hole: A42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:02:36 | 34.45 | 30.15 | 1,178 | 1.75 | 0.35 | 64.4 |
| 4/17/2015 10:02:36 | 34.78 | 30.48 | 1,155 | 1.78 | 0.34 | 63.1 |
| 4/17/2015 10:02:37 | 35.11 | 30.81 | 1,155 | 1.78 | 0.34 | 63.1 |
| 4/17/2015 10:02:37 | 35.43 | 31.13 | 1,155 | 1.77 | 0.35 | 63.1 |
| 4/17/2015 10:02:37 | 35.76 | 31.46 | 1,162 | 1.74 | 0.34 | 63.5 |
| 4/17/2015 10:02:38 | 36.09 | 31.79 | 1,162 | 1.74 | 0.34 | 63.5 |
| 4/17/2015 10:02:38 | 36.42 | 32.12 | 1,157 | 1.77 | 0.34 | 63.2 |
| 4/17/2015 10:02:38 | 36.75 | 32.45 | 1,157 | 1.77 | 0.34 | 63.2 |
| 4/17/2015 10:02:38 | 37.07 | 32.77 | 1,156 | 1.76 | 0.35 | 63.2 |
| 4/17/2015 10:02:39 | 37.40 | 33.10 | 1,156 | 1.76 | 0.35 | 63.2 |
| 4/17/2015 10:02:39 | 37.73 | 33.43 | 1,155 | 1.76 | 0.34 | 63.2 |
| 4/17/2015 10:02:39 | 38.06 | 33.76 | 1,179 | 1.76 | 0.34 | 64.5 |
| 4/17/2015 10:02:40 | 38.39 | 34.09 | 1,179 | 1.76 | 0.34 | 64.5 |
| 4/17/2015 10:02:40 | 38.71 | 34.41 | 1,168 | 1.74 | 0.34 | 63.9 |
| 4/17/2015 10:02:40 | 39.04 | 34.74 | 1,168 | 1.74 | 0.34 | 63.9 |
| 4/17/2015 10:02:40 | 39.37 | 35.07 | 1,161 | 1.76 | 0.34 | 63.5 |
| 4/17/2015 10:02:41 | 39.70 | 35.40 | 1,171 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 10:02:41 | 40.03 | 35.73 | 1,171 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 10:02:41 | 40.35 | 36.05 | 1,162 | 1.75 | 0.34 | 63.6 |
| 4/17/2015 10:02:42 | 40.68 | 36.38 | 1,162 | 1.75 | 0.34 | 63.6 |
| 4/17/2015 10:02:42 | 41.01 | 36.71 | 1,159 | 1.75 | 0.34 | 63.4 |
| 4/17/2015 10:02:43 | 41.34 | 37.04 | 1,153 | 1.77 | 0.34 | 63.1 |
| 4/17/2015 10:02:43 | 41.67 | 37.37 | 1,153 | 1.77 | 0.34 | 63.1 |
| 4/17/2015 10:02:43 | 41.99 | 37.69 | 1,163 | 1.75 | 0.34 | 63.6 |
| 4/17/2015 10:02:44 | 42.32 | 38.02 | 1,163 | 1.75 | 0.34 | 63.6 |
| 4/17/2015 10:02:44 | 42.65 | 38.35 | 1,163 | 1.74 | 0.35 | 63.6 |
| 4/17/2015 10:02:44 | 42.98 | 38.68 | 1,173 | 1.73 | 0.34 | 64.1 |
| 4/17/2015 10:02:45 | 43.31 | 39.01 | 1,173 | 1.73 | 0.34 | 64.1 |
| 4/17/2015 10:02:45 | 43.64 | 39.34 | 1,162 | 1.76 | 0.34 | 63.5 |
| 4/17/2015 10:02:45 | 43.96 | 39.66 | 1,162 | 1.76 | 0.34 | 63.5 |
| 4/17/2015 10:02:45 | 44.29 | 39.99 | 1,181 | 1.72 | 0.34 | 64.6 |
| 4/17/2015 10:02:46 | 44.62 | 40.32 | 1,181 | 1.72 | 0.34 | 64.6 |
| 4/17/2015 10:02:46 | 44.95 | 40.65 | 1,181 | 1.75 | 0.34 | 64.6 |
| 4/17/2015 10:02:46 | 45.28 | 40.98 | 1,171 | 1.74 | 0.34 | 64.0 |
| 4/17/2015 10:02:47 | 45.60 | 41.30 | 1,171 | 1.74 | 0.34 | 64.0 |
| 4/17/2015 10:02:47 | 45.93 | 41.63 | 1,164 | 1.72 | 0.34 | 63.7 |
| 4/17/2015 10:02:47 | 46.26 | 41.96 | 1,164 | 1.72 | 0.34 | 63.7 |
| 4/17/2015 10:02:47 | 46.59 | 42.29 | 1,181 | 1.75 | 0.34 | 64.6 |
| 4/17/2015 10:02:48 | 46.92 | 42.62 | 1,171 | 1.72 | 0.34 | 64.0 |
| 4/17/2015 10:02:48 | 47.24 | 42.94 | 1,171 | 1.72 | 0.34 | 64.0 |
| 4/17/2015 10:02:48 | 47.57 | 43.27 | 1,171 | 1.72 | 0.34 | 64.0 |
| 4/17/2015 10:02:49 | 47.90 | 43.60 | 1,171 | 1.72 | 0.34 | 64.0 |
| 4/17/2015 10:02:49 | 48.23 | 43.93 | 1,171 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 10:02:49 | 48.56 | 44.26 | 1,171 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 10:02:49 | 48.88 | 44.58 | 1,174 | 1.72 | 0.36 | 64.2 |
| 4/17/2015 10:02:50 | 49.21 | 44.91 | 1,147 | 2.79 | 0.46 | 62.7 |
| 4/17/2015 10:02:59 | 49.54 | 45.24 | 89 | 3.93 | 0.50 | 4.9 |
| 4/17/2015 10:03:05 | 49.87 | 45.57 | 55 | 5.00 | 0.50 | 3.0 |
| 4/17/2015 10:03:11 | 50.20 | 45.90 | 63 | 3.81 | 0.52 | 3.5 |
| 4/17/2015 10:03:16 | 50.53 | 46.23 | 72 | 3.85 | 0.51 | 4.0 |
| 4/17/2015 10:03:21 | 50.85 | 46.55 | 68 | 3.84 | 0.50 | 3.7 |
| 4/17/2015 10:03:26 | 51.18 | 46.88 | 69 | 3.86 | 0.45 | 3.8 |
| 4/17/2015 10:03:28 | 51.51 | 47.21 | 126 | 3.69 | 0.47 | 6.9 |
| 4/17/2015 10:03:30 | 51.84 | 47.54 | 160 | 3.71 | 0.48 | 8.7 |
| 4/17/2015 10:03:33 | 52.17 | 47.87 | 140 | 3.77 | 0.49 | 7.6 |
| 4/17/2015 10:03:36 | 52.49 | 48.19 | 141 | 4.07 | 0.48 | 7.7 |
| 4/17/2015 10:03:38 | 52.82 | 48.52 | 154 | 3.85 | 0.51 | 8.4 |
| 4/17/2015 10:03:39 | 53.15 | 48.85 | 162 | 4.01 | 0.44 | 8.9 |
| 4/17/2015 10:03:41 | 53.48 | 49.18 | 241 | 4.09 | 0.42 | 13.2 |
| 4/17/2015 10:03:42 | 53.81 | 49.51 | 301 | 3.75 | 0.45 | 16.5 |
| 4/17/2015 10:03:43 | 54.13 | 49.83 | 273 | 3.89 | 0.48 | 14.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:03:46 | 54.46 | 50.16 | 168 | 3.80 | 0.48 | 9.2 |
| 4/17/2015 | 10:03:49 | 54.79 | 50.49 | 125 | 3.76 | 0.45 | 6.8 |
| 4/17/2015 | 10:03:52 | 55.12 | 50.82 | 116 | 3.96 | 0.48 | 6.3 |
| 4/17/2015 | 10:03:55 | 55.45 | 51.15 | 121 | 3.77 | 0.48 | 6.6 |
| 4/17/2015 | 10:03:58 | 55.77 | 51.47 | 109 | 3.83 | 0.49 | 6.0 |
| 4/17/2015 | 10:04:01 | 56.10 | 51.80 | 107 | 3.77 | 0.48 | 5.8 |
| 4/17/2015 | 10:04:04 | 56.43 | 52.13 | 118 | 3.62 | 0.45 | 6.4 |
| 4/17/2015 | 10:04:07 | 56.76 | 52.46 | 136 | 3.71 | 0.48 | 7.4 |
| 4/17/2015 | 10:04:10 | 57.09 | 52.79 | 127 | 3.56 | 0.46 | 7.0 |
| 4/17/2015 | 10:04:12 | 57.41 | 53.11 | 142 | 3.90 | 0.48 | 7.7 |
| 4/17/2015 | 10:04:15 | 57.74 | 53.44 | 130 | 3.69 | 0.45 | 7.1 |
| 4/17/2015 | 10:04:22 | 58.07 | 53.77 | 2 | 2.58 | 0.16 | 0.1 |
| 4/17/2015 | 10:04:27 | 58.22 | 53.92 | 56 | 3.58 | 0.49 | 3.1 |

## A42 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:00:51

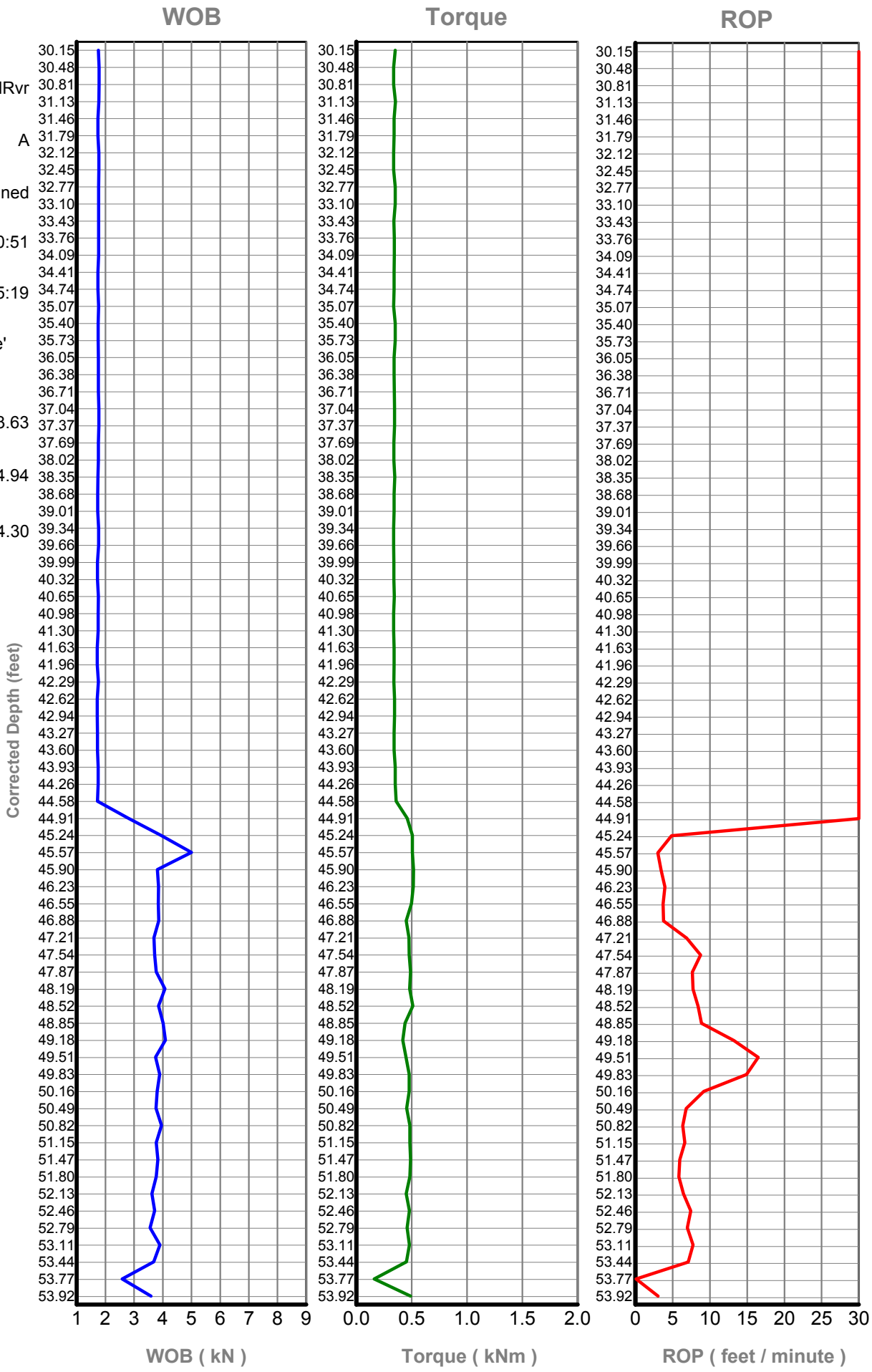
**End Date:**
4/17/2015 10:05:19

**Operator Note:**
'4.3 3.1 a Auto Complete'

**Northing:**
371,343.63

**Easting:**
259,284.94

**Tide (feet):**
4.30



## Hole: A43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:01:18 | 34.45 | 30.15 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 10:01:18 | 34.78 | 30.48 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 10:01:18 | 35.11 | 30.81 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 10:01:19 | 35.43 | 31.13 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 10:01:19 | 35.76 | 31.46 | 966 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 10:01:19 | 36.09 | 31.79 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 10:01:20 | 36.42 | 32.12 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 10:01:20 | 36.75 | 32.45 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 10:01:20 | 37.07 | 32.77 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 10:01:21 | 37.40 | 33.10 | 952 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:21 | 37.73 | 33.43 | 952 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:21 | 38.06 | 33.76 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 10:01:22 | 38.39 | 34.09 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 10:01:22 | 38.71 | 34.41 | 958 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 10:01:23 | 39.04 | 34.74 | 958 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 10:01:23 | 39.37 | 35.07 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:23 | 39.70 | 35.40 | 950 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:24 | 40.03 | 35.73 | 950 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:24 | 40.35 | 36.05 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:24 | 40.68 | 36.38 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:25 | 41.01 | 36.71 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:25 | 41.34 | 37.04 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:25 | 41.67 | 37.37 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:26 | 41.99 | 37.69 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:27 | 42.32 | 38.02 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:26 | 42.65 | 38.35 | 951 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:27 | 42.98 | 38.68 | 951 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 10:01:28 | 43.31 | 39.01 | 963 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 10:01:28 | 43.64 | 39.34 | 963 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 10:01:28 | 43.96 | 39.66 | 955 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 10:01:29 | 44.29 | 39.99 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:29 | 44.62 | 40.32 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:29 | 44.95 | 40.65 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 10:01:30 | 45.28 | 40.98 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 10:01:30 | 45.60 | 41.30 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 10:01:30 | 45.93 | 41.63 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 10:01:31 | 46.26 | 41.96 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 10:01:31 | 46.59 | 42.29 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:32 | 46.92 | 42.62 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:32 | 47.24 | 42.94 | 953 | 0.29 | 0.42 | 52.1 |
| 4/17/2015 10:01:32 | 47.57 | 43.27 | 970 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:33 | 47.90 | 43.60 | 970 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:33 | 48.23 | 43.93 | 970 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 10:01:33 | 48.56 | 44.26 | 972 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 10:01:34 | 48.88 | 44.58 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 10:01:48 | 49.21 | 44.91 | 66 | 0.29 | 0.42 | 3.6 |
| 4/17/2015 10:01:54 | 49.54 | 45.24 | 62 | 0.29 | 0.42 | 3.4 |
| 4/17/2015 10:02:00 | 49.87 | 45.57 | 50 | 0.29 | 0.42 | 2.8 |
| 4/17/2015 10:02:07 | 50.20 | 45.90 | 47 | 0.29 | 0.42 | 2.6 |
| 4/17/2015 10:02:17 | 50.53 | 46.23 | 43 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 10:02:20 | 50.85 | 46.55 | 113 | 0.29 | 0.42 | 6.2 |
| 4/17/2015 10:02:23 | 51.18 | 46.88 | 122 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 10:02:25 | 51.51 | 47.21 | 121 | 0.29 | 0.42 | 6.6 |
| 4/17/2015 10:02:28 | 51.84 | 47.54 | 144 | 0.29 | 0.42 | 7.9 |
| 4/17/2015 10:02:31 | 52.17 | 47.87 | 134 | 0.29 | 0.42 | 7.3 |
| 4/17/2015 10:02:48 | 52.49 | 48.19 | 44 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 10:02:52 | 52.82 | 48.52 | 98 | 0.29 | 0.42 | 5.4 |
| 4/17/2015 10:02:55 | 53.15 | 48.85 | 110 | 0.29 | 0.42 | 6.0 |
| 4/17/2015 10:02:57 | 53.48 | 49.18 | 127 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 10:02:58 | 53.81 | 49.51 | 224 | 0.29 | 0.42 | 12.2 |
| 4/17/2015 10:03:01 | 54.13 | 49.83 | 139 | 0.29 | 0.42 | 7.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:03:04 | 54.46 | 50.16 | 116 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 | 10:03:06 | 54.79 | 50.49 | 157 | 0.29 | 0.42 | 8.6 |
| 4/17/2015 | 10:03:08 | 55.12 | 50.82 | 174 | 0.29 | 0.42 | 9.5 |
| 4/17/2015 | 10:03:13 | 55.45 | 51.15 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 | 10:03:17 | 55.77 | 51.47 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 | 10:03:21 | 56.10 | 51.80 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 10:03:24 | 56.43 | 52.13 | 114 | 0.29 | 0.42 | 6.2 |
| 4/17/2015 | 10:03:29 | 56.76 | 52.46 | 88 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 10:03:34 | 57.09 | 52.79 | 70 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 | 10:03:40 | 57.41 | 53.11 | 58 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 | 10:03:46 | 57.74 | 53.44 | 59 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 | 10:03:53 | 58.07 | 53.77 | 61 | 0.29 | 0.42 | 3.3 |

## A43 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:59:23

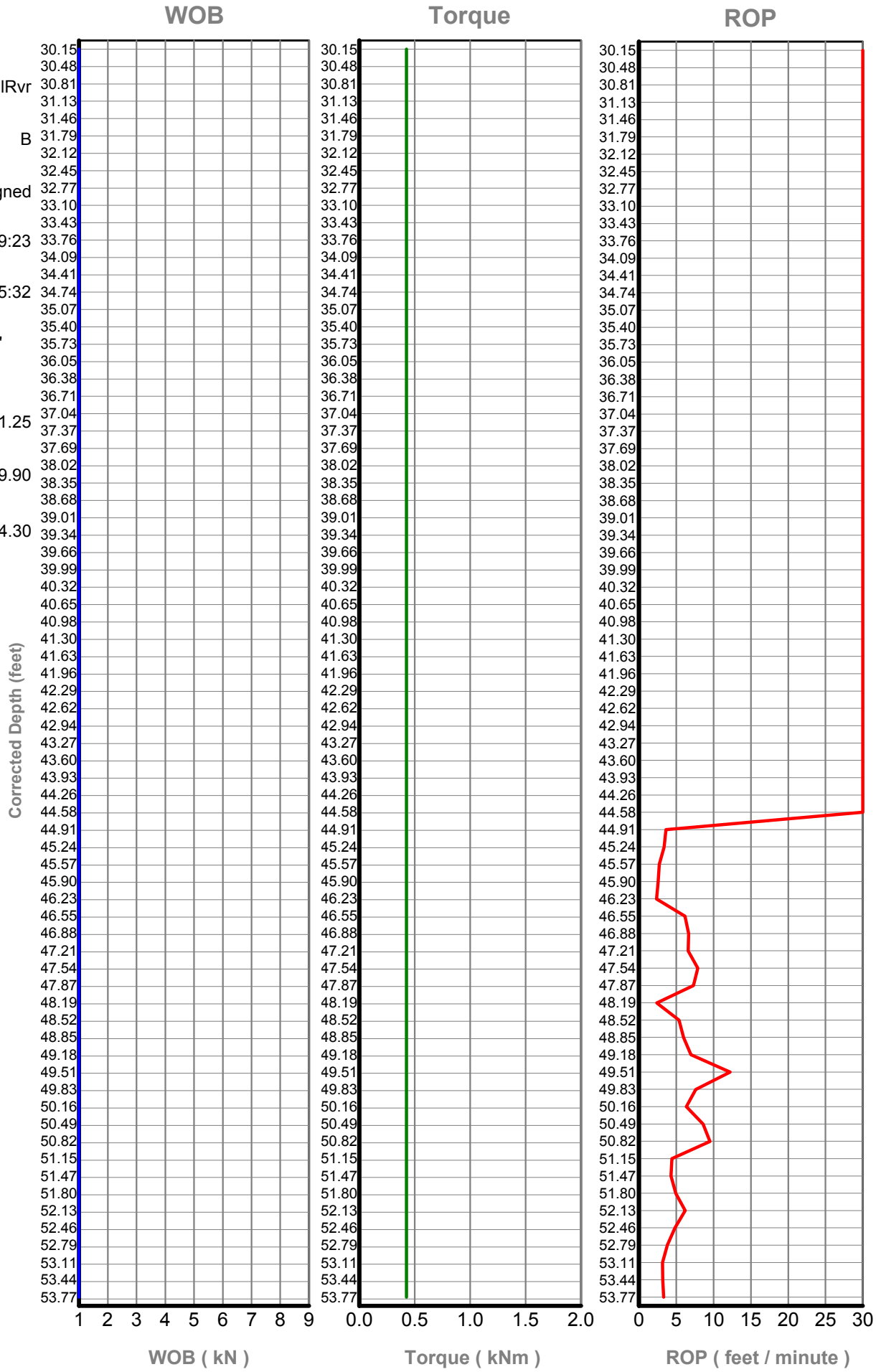
**End Date:**
4/17/2015 10:05:32

**Operator Note:**
'4.3 3.1 b Hit rock @ 57"

**Northing:**
371,341.25

**Easting:**
259,359.90

**Tide (feet):**
4.30



## Hole: A44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 10:02:04 | 34.45 | 30.15 | 633 | 2.12 | 0.28 | 34.6 |
| 4/17/2015 10:02:05 | 34.78 | 30.48 | 633 | 2.13 | 0.28 | 34.6 |
| 4/17/2015 10:02:05 | 35.11 | 30.81 | 636 | 2.14 | 0.28 | 34.8 |
| 4/17/2015 10:02:06 | 35.43 | 31.13 | 633 | 2.12 | 0.28 | 34.6 |
| 4/17/2015 10:02:06 | 35.76 | 31.46 | 630 | 2.12 | 0.28 | 34.5 |
| 4/17/2015 10:02:07 | 36.09 | 31.79 | 626 | 2.14 | 0.28 | 34.2 |
| 4/17/2015 10:02:08 | 36.42 | 32.12 | 627 | 2.14 | 0.28 | 34.3 |
| 4/17/2015 10:02:08 | 36.75 | 32.45 | 630 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:09 | 37.07 | 32.77 | 630 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:09 | 37.40 | 33.10 | 633 | 2.14 | 0.28 | 34.6 |
| 4/17/2015 10:02:10 | 37.73 | 33.43 | 630 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:10 | 38.06 | 33.76 | 633 | 2.13 | 0.28 | 34.6 |
| 4/17/2015 10:02:11 | 38.39 | 34.09 | 627 | 2.14 | 0.28 | 34.3 |
| 4/17/2015 10:02:11 | 38.71 | 34.41 | 633 | 2.13 | 0.28 | 34.6 |
| 4/17/2015 10:02:12 | 39.04 | 34.74 | 630 | 2.12 | 0.28 | 34.5 |
| 4/17/2015 10:02:12 | 39.37 | 35.07 | 630 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:13 | 39.70 | 35.40 | 630 | 2.13 | 0.27 | 34.5 |
| 4/17/2015 10:02:14 | 40.03 | 35.73 | 637 | 2.14 | 0.28 | 34.8 |
| 4/17/2015 10:02:15 | 40.35 | 36.05 | 637 | 2.12 | 0.28 | 34.8 |
| 4/17/2015 10:02:15 | 40.68 | 36.38 | 627 | 2.14 | 0.28 | 34.3 |
| 4/17/2015 10:02:16 | 41.01 | 36.71 | 631 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:16 | 41.34 | 37.04 | 631 | 2.14 | 0.28 | 34.5 |
| 4/17/2015 10:02:17 | 41.67 | 37.37 | 631 | 2.12 | 0.27 | 34.5 |
| 4/17/2015 10:02:17 | 41.99 | 37.69 | 624 | 2.14 | 0.27 | 34.1 |
| 4/17/2015 10:02:18 | 42.32 | 38.02 | 634 | 2.14 | 0.27 | 34.7 |
| 4/17/2015 10:02:18 | 42.65 | 38.35 | 630 | 2.13 | 0.28 | 34.5 |
| 4/17/2015 10:02:19 | 42.98 | 38.68 | 620 | 2.13 | 0.28 | 33.9 |
| 4/17/2015 10:02:19 | 43.31 | 39.01 | 628 | 2.14 | 0.28 | 34.3 |
| 4/17/2015 10:02:20 | 43.64 | 39.34 | 631 | 2.14 | 0.27 | 34.5 |
| 4/17/2015 10:02:21 | 43.96 | 39.66 | 625 | 2.14 | 0.28 | 34.2 |
| 4/17/2015 10:02:21 | 44.29 | 39.99 | 631 | 2.14 | 0.27 | 34.5 |
| 4/17/2015 10:02:22 | 44.62 | 40.32 | 621 | 2.14 | 0.27 | 34.0 |
| 4/17/2015 10:02:22 | 44.95 | 40.65 | 613 | 2.16 | 0.28 | 33.5 |
| 4/17/2015 10:02:23 | 45.28 | 40.98 | 607 | 2.15 | 0.28 | 33.2 |
| 4/17/2015 10:02:24 | 45.60 | 41.30 | 598 | 2.14 | 0.26 | 32.7 |
| 4/17/2015 10:02:24 | 45.93 | 41.63 | 596 | 2.14 | 0.28 | 32.6 |
| 4/17/2015 10:02:25 | 46.26 | 41.96 | 593 | 2.15 | 0.28 | 32.4 |
| 4/17/2015 10:02:26 | 46.59 | 42.29 | 589 | 2.14 | 0.28 | 32.2 |
| 4/17/2015 10:02:26 | 46.92 | 42.62 | 599 | 2.14 | 0.28 | 32.8 |
| 4/17/2015 10:02:27 | 47.24 | 42.94 | 593 | 2.14 | 0.28 | 32.4 |
| 4/17/2015 10:02:27 | 47.57 | 43.27 | 596 | 2.14 | 0.28 | 32.6 |
| 4/17/2015 10:02:28 | 47.90 | 43.60 | 596 | 2.14 | 0.28 | 32.6 |
| 4/17/2015 10:02:28 | 48.23 | 43.93 | 598 | 2.15 | 0.27 | 32.7 |
| 4/17/2015 10:02:29 | 48.56 | 44.26 | 593 | 2.14 | 0.27 | 32.4 |
| 4/17/2015 10:02:30 | 48.88 | 44.58 | 589 | 2.14 | 0.28 | 32.2 |
| 4/17/2015 10:02:31 | 49.21 | 44.91 | 596 | 2.23 | 0.28 | 32.6 |
| 4/17/2015 10:02:59 | 49.54 | 45.24 | 0 | 2.20 | 1.07 | 0.0 |
| 4/17/2015 10:03:00 | 49.87 | 45.57 | 68 | 2.20 | 1.05 | 3.7 |
| 4/17/2015 10:03:01 | 50.20 | 45.90 | 252 | 2.24 | 1.11 | 13.8 |
| 4/17/2015 10:03:03 | 50.53 | 46.23 | 252 | 2.26 | 1.13 | 13.8 |
| 4/17/2015 10:03:06 | 50.85 | 46.55 | 147 | 2.28 | 1.18 | 8.0 |
| 4/17/2015 10:03:10 | 51.18 | 46.88 | 41 | 2.21 | 0.98 | 2.2 |
| 4/17/2015 10:03:11 | 51.51 | 47.21 | 154 | 2.29 | 1.06 | 8.4 |
| 4/17/2015 10:03:12 | 51.84 | 47.54 | 230 | 2.29 | 1.08 | 12.6 |
| 4/17/2015 10:03:16 | 52.17 | 47.87 | 20 | 2.34 | 1.18 | 1.1 |
| 4/17/2015 10:03:19 | 52.49 | 48.19 | 153 | 2.35 | 1.25 | 8.4 |
| 4/17/2015 10:03:21 | 52.82 | 48.52 | 134 | 2.36 | 1.29 | 7.3 |
| 4/17/2015 10:04:03 | 53.15 | 48.85 | 0 | 2.29 | 1.15 | 0.0 |
| 4/17/2015 10:04:05 | 53.48 | 49.18 | 94 | 2.31 | 1.27 | 5.2 |
| 4/17/2015 10:04:48 | 53.81 | 49.51 | 32 | 2.37 | 1.33 | 1.8 |
| 4/17/2015 10:04:51 | 54.13 | 49.83 | 113 | 2.36 | 1.36 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 10:05:17 | 54.46 | 50.16 | 45 | 2.32 | 1.30 | 2.4 |
| 4/17/2015 | 10:05:27 | 54.79 | 50.49 | 0 | 2.27 | 1.33 | 0.0 |
| 4/17/2015 | 10:06:06 | 55.12 | 50.82 | 26 | 2.33 | 1.30 | 1.4 |
| 4/17/2015 | 10:06:09 | 55.45 | 51.15 | 105 | 2.31 | 1.35 | 5.8 |
| 4/17/2015 | 10:06:12 | 55.77 | 51.47 | 125 | 2.33 | 1.33 | 6.9 |
| 4/17/2015 | 10:06:14 | 56.10 | 51.80 | 165 | 2.31 | 1.29 | 9.0 |
| 4/17/2015 | 10:06:16 | 56.43 | 52.13 | 162 | 2.32 | 1.30 | 8.9 |
| 4/17/2015 | 10:06:19 | 56.76 | 52.46 | 156 | 2.32 | 1.32 | 8.5 |
| 4/17/2015 | 10:06:21 | 57.09 | 52.79 | 128 | 2.33 | 1.34 | 7.0 |
| 4/17/2015 | 10:06:25 | 57.41 | 53.11 | 109 | 2.35 | 1.37 | 6.0 |
| 4/17/2015 | 10:06:30 | 57.74 | 53.44 | 66 | 2.34 | 1.44 | 3.6 |
| 4/17/2015 | 10:06:36 | 58.07 | 53.77 | 66 | 2.33 | 1.43 | 3.6 |

## A44 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 10:00:34

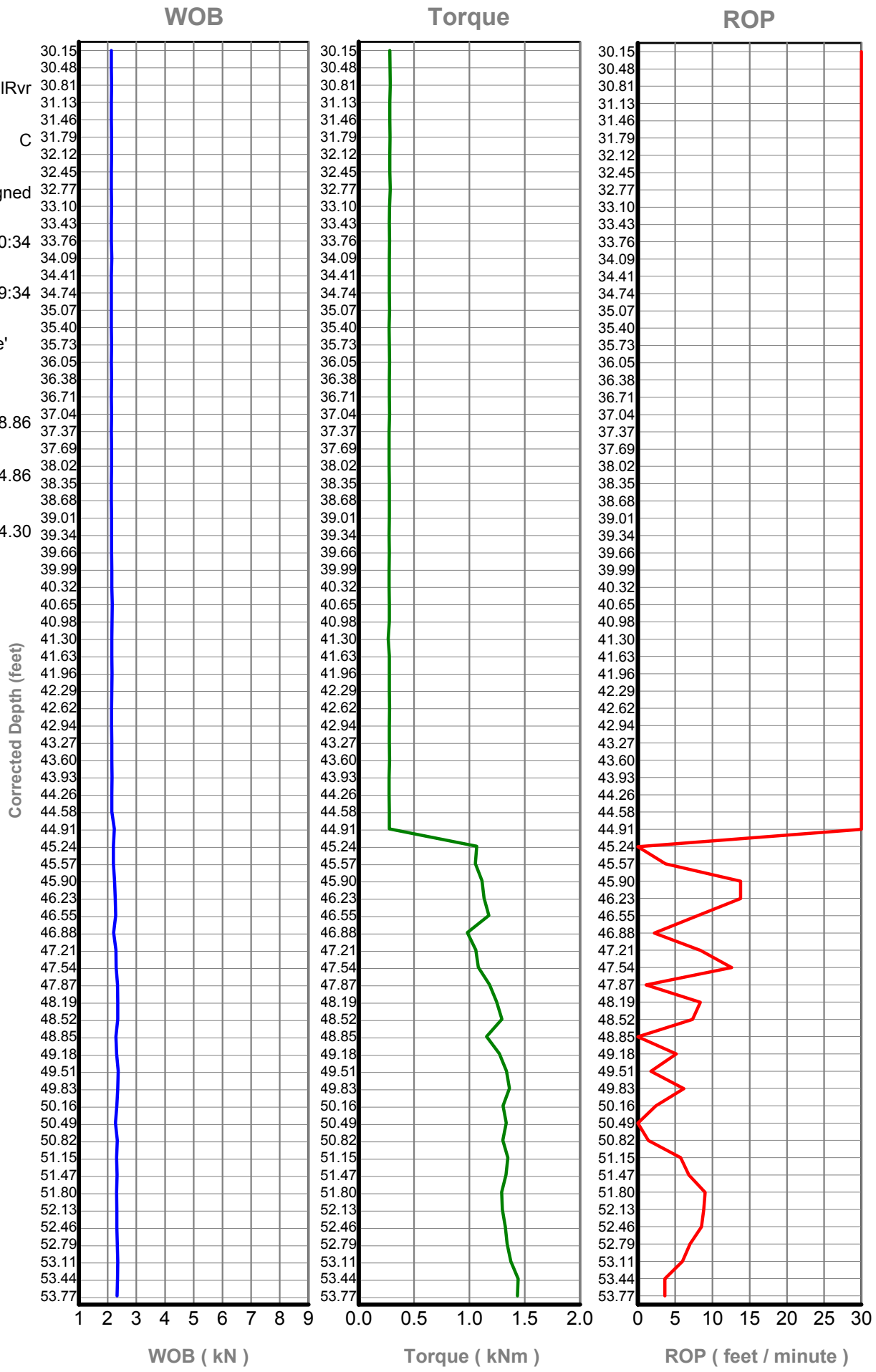
**End Date:**
4/17/2015 10:09:34

**Operator Note:**
'4.3 3.1 c Auto Complete'

**Northing:**
371,338.86

**Easting:**
259,434.86

**Tide (feet):**
4.30



## Hole: A45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:58:55 | 31.82 | 30.02 | 1,022 | 6.16 | 0.31 | 55.9 |
| 4/17/2015 4:58:56 | 32.15 | 30.35 | 1,012 | 6.15 | 0.31 | 55.3 |
| 4/17/2015 4:58:57 | 32.48 | 30.68 | 1,012 | 6.15 | 0.31 | 55.3 |
| 4/17/2015 4:58:56 | 32.81 | 31.01 | 1,009 | 6.15 | 0.31 | 55.2 |
| 4/17/2015 4:58:57 | 33.14 | 31.34 | 1,015 | 6.14 | 0.31 | 55.5 |
| 4/17/2015 4:58:58 | 33.46 | 31.66 | 1,015 | 6.14 | 0.31 | 55.5 |
| 4/17/2015 4:58:58 | 33.79 | 31.99 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:58:58 | 34.12 | 32.32 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:58:59 | 34.45 | 32.65 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:58:59 | 34.78 | 32.98 | 1,009 | 6.15 | 0.31 | 55.2 |
| 4/17/2015 4:58:59 | 35.11 | 33.31 | 1,021 | 6.16 | 0.31 | 55.8 |
| 4/17/2015 4:59:00 | 35.43 | 33.63 | 1,021 | 6.16 | 0.31 | 55.8 |
| 4/17/2015 4:59:00 | 35.76 | 33.96 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:59:00 | 36.09 | 34.29 | 1,015 | 6.16 | 0.32 | 55.5 |
| 4/17/2015 4:59:01 | 36.42 | 34.62 | 1,015 | 6.16 | 0.32 | 55.5 |
| 4/17/2015 4:59:01 | 36.75 | 34.95 | 1,015 | 6.16 | 0.32 | 55.5 |
| 4/17/2015 4:59:01 | 37.07 | 35.27 | 1,018 | 6.16 | 0.32 | 55.6 |
| 4/17/2015 4:59:02 | 37.40 | 35.60 | 1,018 | 6.16 | 0.32 | 55.6 |
| 4/17/2015 4:59:02 | 37.73 | 35.93 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:59:02 | 38.06 | 36.26 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:59:03 | 38.39 | 36.59 | 1,012 | 6.16 | 0.31 | 55.3 |
| 4/17/2015 4:59:03 | 38.71 | 36.91 | 1,005 | 6.16 | 0.31 | 55.0 |
| 4/17/2015 4:59:03 | 39.04 | 37.24 | 1,015 | 6.17 | 0.32 | 55.5 |
| 4/17/2015 4:59:04 | 39.37 | 37.57 | 986 | 6.16 | 0.31 | 53.9 |
| 4/17/2015 4:59:04 | 39.70 | 37.90 | 986 | 6.16 | 0.31 | 53.9 |
| 4/17/2015 4:59:04 | 40.03 | 38.23 | 986 | 6.16 | 0.31 | 53.9 |
| 4/17/2015 4:59:05 | 40.35 | 38.55 | 1,002 | 6.16 | 0.32 | 54.8 |
| 4/17/2015 4:59:05 | 40.68 | 38.88 | 1,002 | 6.16 | 0.32 | 54.8 |
| 4/17/2015 4:59:05 | 41.01 | 39.21 | 1,005 | 6.15 | 0.32 | 55.0 |
| 4/17/2015 4:59:06 | 41.34 | 39.54 | 1,008 | 6.16 | 0.31 | 55.1 |
| 4/17/2015 4:59:06 | 41.67 | 39.87 | 1,008 | 6.16 | 0.31 | 55.1 |
| 4/17/2015 4:59:06 | 41.99 | 40.19 | 1,003 | 6.15 | 0.31 | 54.8 |
| 4/17/2015 4:59:07 | 42.32 | 40.52 | 1,022 | 6.14 | 0.31 | 55.9 |
| 4/17/2015 4:59:08 | 42.65 | 40.85 | 1,022 | 6.14 | 0.31 | 55.9 |
| 4/17/2015 4:59:08 | 42.98 | 41.18 | 1,012 | 6.14 | 0.32 | 55.3 |
| 4/17/2015 4:59:08 | 43.31 | 41.51 | 1,006 | 6.14 | 0.32 | 55.0 |
| 4/17/2015 4:59:09 | 43.64 | 41.84 | 1,006 | 6.14 | 0.32 | 55.0 |
| 4/17/2015 4:59:09 | 43.96 | 42.16 | 1,009 | 6.16 | 0.31 | 55.2 |
| 4/17/2015 4:59:09 | 44.29 | 42.49 | 1,003 | 6.16 | 0.31 | 54.9 |
| 4/17/2015 4:59:10 | 44.62 | 42.82 | 1,003 | 6.16 | 0.31 | 54.9 |
| 4/17/2015 4:59:10 | 44.95 | 43.15 | 1,006 | 6.14 | 0.31 | 55.0 |
| 4/17/2015 4:59:10 | 45.28 | 43.48 | 1,006 | 6.13 | 0.31 | 55.0 |
| 4/17/2015 4:59:11 | 45.60 | 43.80 | 1,006 | 6.13 | 0.31 | 55.0 |
| 4/17/2015 4:59:11 | 45.93 | 44.13 | 993 | 6.13 | 0.31 | 54.3 |
| 4/17/2015 4:59:11 | 46.26 | 44.46 | 993 | 6.13 | 0.31 | 54.3 |
| 4/17/2015 4:59:12 | 46.59 | 44.79 | 993 | 6.13 | 0.31 | 54.3 |
| 4/17/2015 4:59:12 | 46.92 | 45.12 | 998 | 6.13 | 0.31 | 54.6 |
| 4/17/2015 4:59:12 | 47.24 | 45.44 | 998 | 6.12 | 0.31 | 54.6 |
| 4/17/2015 4:59:13 | 47.57 | 45.77 | 998 | 6.12 | 0.31 | 54.6 |
| 4/17/2015 4:59:13 | 47.90 | 46.10 | 998 | 6.12 | 0.31 | 54.6 |
| 4/17/2015 4:59:13 | 48.23 | 46.43 | 995 | 6.13 | 0.31 | 54.4 |
| 4/17/2015 4:59:14 | 48.56 | 46.76 | 1,017 | 6.12 | 0.31 | 55.6 |
| 4/17/2015 4:59:14 | 48.88 | 47.08 | 1,017 | 6.12 | 0.31 | 55.6 |
| 4/17/2015 4:59:14 | 49.21 | 47.41 | 1,003 | 6.12 | 0.33 | 54.9 |
| 4/17/2015 4:59:48 | 49.54 | 47.74 | 6 | 4.11 | 0.49 | 0.3 |
| 4/17/2015 4:59:50 | 49.87 | 48.07 | 128 | 4.05 | 0.49 | 7.0 |
| 4/17/2015 4:59:52 | 50.20 | 48.40 | 228 | 3.97 | 0.50 | 12.5 |
| 4/17/2015 4:59:54 | 50.53 | 48.73 | 218 | 3.96 | 0.49 | 11.9 |
| 4/17/2015 4:59:55 | 50.85 | 49.05 | 204 | 4.07 | 0.47 | 11.2 |
| 4/17/2015 4:59:56 | 51.18 | 49.38 | 240 | 3.94 | 0.49 | 13.1 |
| 4/17/2015 5:00:00 | 51.51 | 49.71 | 127 | 4.02 | 0.52 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:00:03 | 51.84 | 50.04 | 99 | 3.94 | 0.51 | 5.4 |
| 4/17/2015 | 5:00:07 | 52.17 | 50.37 | 80 | 3.83 | 0.51 | 4.4 |
| 4/17/2015 | 5:00:13 | 52.49 | 50.69 | 68 | 3.77 | 0.50 | 3.7 |
| 4/17/2015 | 5:00:17 | 52.82 | 51.02 | 84 | 3.77 | 0.50 | 4.6 |
| 4/17/2015 | 5:00:21 | 53.15 | 51.35 | 85 | 3.83 | 0.50 | 4.6 |
| 4/17/2015 | 5:00:25 | 53.48 | 51.68 | 91 | 3.64 | 0.52 | 5.0 |
| 4/17/2015 | 5:00:31 | 53.81 | 52.01 | 64 | 3.75 | 0.51 | 3.5 |
| 4/17/2015 | 5:00:36 | 54.13 | 52.33 | 60 | 3.69 | 0.51 | 3.3 |
| 4/17/2015 | 5:00:41 | 54.46 | 52.66 | 71 | 3.69 | 0.50 | 3.9 |
| 4/17/2015 | 5:00:46 | 54.79 | 52.99 | 79 | 3.54 | 0.51 | 4.3 |
| 4/17/2015 | 5:00:51 | 55.12 | 53.32 | 71 | 3.56 | 0.50 | 3.9 |
| 4/17/2015 | 5:00:55 | 55.45 | 53.65 | 80 | 3.57 | 0.50 | 4.4 |
| 4/17/2015 | 5:00:59 | 55.77 | 53.97 | 76 | 3.52 | 0.50 | 4.1 |
| 4/17/2015 | 5:01:05 | 56.10 | 54.30 | 75 | 3.49 | 0.51 | 4.1 |
| 4/17/2015 | 5:01:09 | 56.43 | 54.63 | 73 | 3.54 | 0.50 | 4.0 |
| 4/17/2015 | 5:01:15 | 56.76 | 54.96 | 64 | 3.53 | 0.50 | 3.5 |
| 4/17/2015 | 5:01:21 | 57.09 | 55.29 | 61 | 3.62 | 0.50 | 3.3 |
| 4/17/2015 | 5:01:22 | 57.14 | 55.34 | 62 | 3.06 | 0.17 | 3.4 |

## A45 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 4:56:01

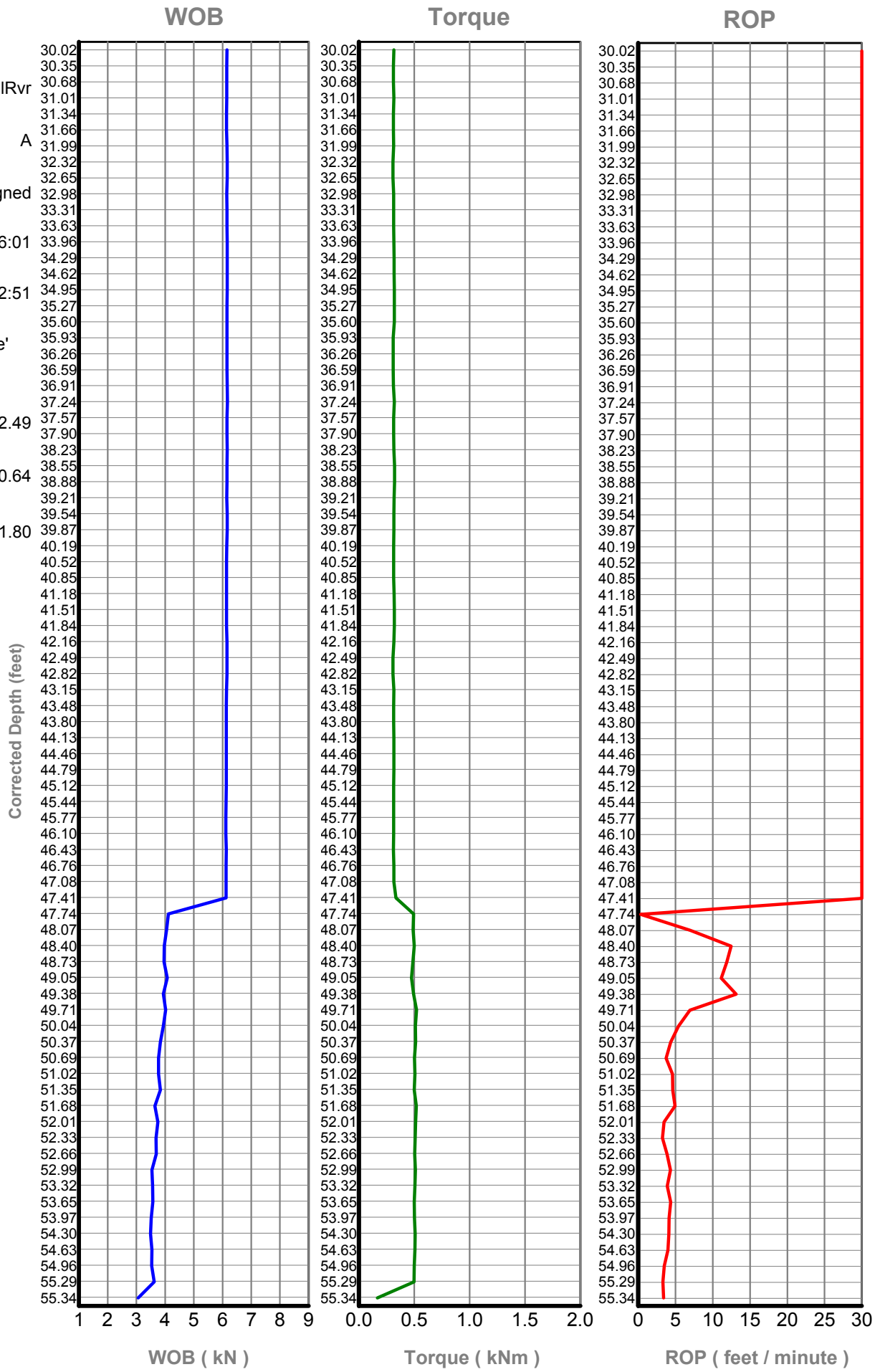
**End Date:**
4/17/2015 5:02:51

**Operator Note:**
'1.8 2.1 a Auto Complete'

**Northing:**
371,332.49

**Easting:**
259,500.64

**Tide (feet):**
1.80



## Hole: A46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:58:08 | 31.82 | 30.02 | 1,137 | 0.29 | 0.42 | 62.2 |
| 4/17/2015 4:58:08 | 32.15 | 30.35 | 1,137 | 0.29 | 0.42 | 62.2 |
| 4/17/2015 4:58:08 | 32.48 | 30.68 | 1,131 | 0.29 | 0.42 | 61.9 |
| 4/17/2015 4:58:09 | 32.81 | 31.01 | 1,131 | 0.29 | 0.42 | 61.9 |
| 4/17/2015 4:58:09 | 33.14 | 31.34 | 1,128 | 0.29 | 0.42 | 61.7 |
| 4/17/2015 4:58:09 | 33.46 | 31.66 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 4:58:10 | 33.79 | 31.99 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 4:58:10 | 34.12 | 32.32 | 1,131 | 0.29 | 0.42 | 61.8 |
| 4/17/2015 4:58:10 | 34.45 | 32.65 | 1,122 | 0.29 | 0.42 | 61.3 |
| 4/17/2015 4:58:11 | 34.78 | 32.98 | 1,122 | 0.29 | 0.42 | 61.3 |
| 4/17/2015 4:58:11 | 35.11 | 33.31 | 1,128 | 0.29 | 0.42 | 61.7 |
| 4/17/2015 4:58:11 | 35.43 | 33.63 | 1,128 | 0.29 | 0.42 | 61.7 |
| 4/17/2015 4:58:11 | 35.76 | 33.96 | 1,124 | 0.29 | 0.42 | 61.5 |
| 4/17/2015 4:58:12 | 36.09 | 34.29 | 1,119 | 0.29 | 0.42 | 61.2 |
| 4/17/2015 4:58:12 | 36.42 | 34.62 | 1,119 | 0.29 | 0.42 | 61.2 |
| 4/17/2015 4:58:12 | 36.75 | 34.95 | 1,123 | 0.29 | 0.42 | 61.4 |
| 4/17/2015 4:58:13 | 37.07 | 35.27 | 1,123 | 0.29 | 0.42 | 61.4 |
| 4/17/2015 4:58:13 | 37.40 | 35.60 | 1,116 | 0.29 | 0.42 | 61.0 |
| 4/17/2015 4:58:13 | 37.73 | 35.93 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 4:58:14 | 38.06 | 36.26 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 4:58:14 | 38.39 | 36.59 | 1,118 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:14 | 38.71 | 36.91 | 1,125 | 0.29 | 0.42 | 61.5 |
| 4/17/2015 4:58:15 | 39.04 | 37.24 | 1,125 | 0.29 | 0.42 | 61.5 |
| 4/17/2015 4:58:15 | 39.37 | 37.57 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:15 | 39.70 | 37.90 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:15 | 40.03 | 38.23 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:16 | 40.35 | 38.55 | 1,131 | 0.29 | 0.42 | 61.9 |
| 4/17/2015 4:58:16 | 40.68 | 38.88 | 1,131 | 0.29 | 0.42 | 61.9 |
| 4/17/2015 4:58:16 | 41.01 | 39.21 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:17 | 41.34 | 39.54 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:17 | 41.67 | 39.87 | 1,127 | 0.29 | 0.42 | 61.6 |
| 4/17/2015 4:58:18 | 41.99 | 40.19 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:18 | 42.32 | 40.52 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:18 | 42.65 | 40.85 | 1,118 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:19 | 42.98 | 41.18 | 1,110 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:19 | 43.31 | 41.51 | 1,110 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:19 | 43.64 | 41.84 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:20 | 43.96 | 42.16 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:20 | 44.29 | 42.49 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:20 | 44.62 | 42.82 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:21 | 44.95 | 43.15 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:21 | 45.28 | 43.48 | 1,116 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:21 | 45.60 | 43.80 | 1,116 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:21 | 45.93 | 44.13 | 1,116 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:22 | 46.26 | 44.46 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:22 | 46.59 | 44.79 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:22 | 46.92 | 45.12 | 1,104 | 0.29 | 0.42 | 60.4 |
| 4/17/2015 4:58:23 | 47.24 | 45.44 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:23 | 47.57 | 45.77 | 1,117 | 0.29 | 0.42 | 61.1 |
| 4/17/2015 4:58:23 | 47.90 | 46.10 | 1,110 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:24 | 48.23 | 46.43 | 1,110 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:24 | 48.56 | 46.76 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:24 | 48.88 | 47.08 | 1,111 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:25 | 49.21 | 47.41 | 1,111 | 0.29 | 0.42 | 60.7 |
| 4/17/2015 4:58:25 | 49.54 | 47.74 | 1,120 | 0.29 | 0.42 | 61.2 |
| 4/17/2015 4:58:25 | 49.87 | 48.07 | 1,120 | 0.29 | 0.42 | 61.2 |
| 4/17/2015 4:58:25 | 50.20 | 48.40 | 1,116 | 0.29 | 0.42 | 61.0 |
| 4/17/2015 4:58:26 | 50.53 | 48.73 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:26 | 50.85 | 49.05 | 1,114 | 0.29 | 0.42 | 60.9 |
| 4/17/2015 4:58:49 | 51.18 | 49.38 | 111 | 0.29 | 0.42 | 6.1 |
| 4/17/2015 4:58:54 | 51.51 | 49.71 | 85 | 0.29 | 0.42 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 4:58:59 | 51.84 | 50.04 | 44 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 | 4:59:04 | 52.17 | 50.37 | 78 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 | 4:59:10 | 52.49 | 50.69 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 | 4:59:12 | 52.82 | 51.02 | 140 | 0.29 | 0.42 | 7.7 |
| 4/17/2015 | 4:59:13 | 53.15 | 51.35 | 239 | 0.29 | 0.42 | 13.1 |
| 4/17/2015 | 4:59:16 | 53.48 | 51.68 | 141 | 0.29 | 0.42 | 7.7 |
| 4/17/2015 | 4:59:20 | 53.81 | 52.01 | 83 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 4:59:26 | 54.13 | 52.33 | 57 | 0.29 | 0.42 | 3.1 |
| 4/17/2015 | 4:59:34 | 54.46 | 52.66 | 49 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 4:59:41 | 54.79 | 52.99 | 53 | 0.29 | 0.42 | 2.9 |
| 4/17/2015 | 4:59:44 | 55.12 | 53.32 | 131 | 0.29 | 0.42 | 7.2 |
| 4/17/2015 | 4:59:46 | 55.45 | 53.65 | 151 | 0.29 | 0.42 | 8.3 |
| 4/17/2015 | 4:59:49 | 55.77 | 53.97 | 146 | 0.29 | 0.42 | 8.0 |
| 4/17/2015 | 4:59:51 | 56.10 | 54.30 | 133 | 0.29 | 0.42 | 7.3 |
| 4/17/2015 | 4:59:54 | 56.43 | 54.63 | 136 | 0.29 | 0.42 | 7.5 |
| 4/17/2015 | 4:59:57 | 56.76 | 54.96 | 134 | 0.29 | 0.42 | 7.3 |
| 4/17/2015 | 5:00:00 | 57.09 | 55.29 | 104 | 0.29 | 0.42 | 5.7 |
| 4/17/2015 | 5:00:02 | 57.14 | 55.34 | 37 | 0.29 | 0.42 | 2.0 |

## A46 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 4:55:57

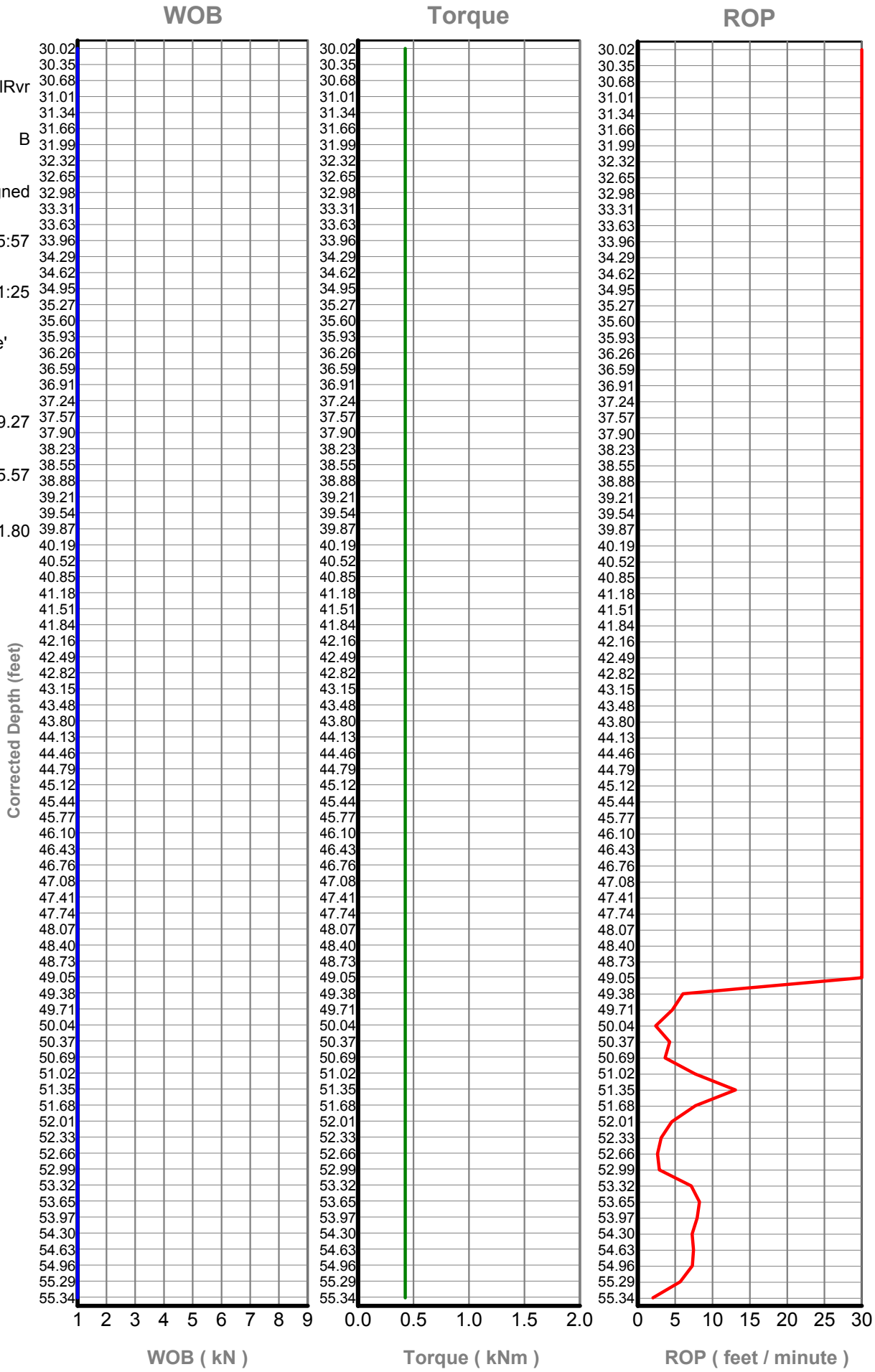
**End Date:**
4/17/2015 5:01:25

**Operator Note:**
'1.8 2.1 b Auto Complete'

**Northing:**
371,329.27

**Easting:**
259,575.57

**Tide (feet):**
1.80



## Hole: A47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:59:32 | 31.82 | 30.12 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:33 | 32.15 | 30.45 | 575 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 4:59:33 | 32.48 | 30.78 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 4:59:34 | 32.81 | 31.11 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 4:59:34 | 33.14 | 31.44 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:35 | 33.46 | 31.76 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:36 | 33.79 | 32.09 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 4:59:36 | 34.12 | 32.42 | 579 | 2.16 | 0.15 | 31.7 |
| 4/17/2015 4:59:37 | 34.45 | 32.75 | 579 | 2.15 | 0.15 | 31.7 |
| 4/17/2015 4:59:37 | 34.78 | 33.08 | 579 | 2.16 | 0.15 | 31.7 |
| 4/17/2015 4:59:38 | 35.11 | 33.41 | 582 | 2.16 | 0.15 | 31.8 |
| 4/17/2015 4:59:39 | 35.43 | 33.73 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 4:59:40 | 35.76 | 34.06 | 569 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 4:59:40 | 36.09 | 34.39 | 572 | 2.14 | 0.15 | 31.3 |
| 4/17/2015 4:59:41 | 36.42 | 34.72 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:41 | 36.75 | 35.05 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 4:59:42 | 37.07 | 35.37 | 582 | 2.17 | 0.16 | 31.8 |
| 4/17/2015 4:59:43 | 37.40 | 35.70 | 575 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 4:59:43 | 37.73 | 36.03 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 4:59:44 | 38.06 | 36.36 | 578 | 2.14 | 0.15 | 31.6 |
| 4/17/2015 4:59:44 | 38.39 | 36.69 | 575 | 2.16 | 0.15 | 31.4 |
| 4/17/2015 4:59:45 | 38.71 | 37.01 | 578 | 2.14 | 0.15 | 31.6 |
| 4/17/2015 4:59:46 | 39.04 | 37.34 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:46 | 39.37 | 37.67 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 4:59:47 | 39.70 | 38.00 | 581 | 2.16 | 0.15 | 31.8 |
| 4/17/2015 4:59:48 | 40.03 | 38.33 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 4:59:49 | 40.35 | 38.65 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 4:59:49 | 40.68 | 38.98 | 577 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 4:59:49 | 41.01 | 39.31 | 577 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 4:59:50 | 41.34 | 39.64 | 577 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 4:59:51 | 41.67 | 39.97 | 577 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 4:59:51 | 41.99 | 40.29 | 581 | 2.16 | 0.15 | 31.8 |
| 4/17/2015 4:59:52 | 42.32 | 40.62 | 561 | 2.14 | 0.15 | 30.7 |
| 4/17/2015 4:59:53 | 42.65 | 40.95 | 561 | 2.16 | 0.15 | 30.7 |
| 4/17/2015 4:59:53 | 42.98 | 41.28 | 568 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 4:59:54 | 43.31 | 41.61 | 565 | 2.17 | 0.15 | 30.9 |
| 4/17/2015 4:59:55 | 43.64 | 41.94 | 565 | 2.16 | 0.15 | 30.9 |
| 4/17/2015 4:59:55 | 43.96 | 42.26 | 568 | 2.15 | 0.15 | 31.1 |
| 4/17/2015 4:59:56 | 44.29 | 42.59 | 583 | 2.14 | 0.15 | 31.9 |
| 4/17/2015 4:59:56 | 44.62 | 42.92 | 573 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 4:59:57 | 44.95 | 43.25 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 4:59:57 | 45.28 | 43.58 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 4:59:58 | 45.60 | 43.90 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 4:59:59 | 45.93 | 44.23 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 4:59:59 | 46.26 | 44.56 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:00:00 | 46.59 | 44.89 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 5:00:01 | 46.92 | 45.22 | 572 | 2.14 | 0.15 | 31.3 |
| 4/17/2015 5:00:02 | 47.24 | 45.54 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 5:00:02 | 47.57 | 45.87 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 5:00:03 | 47.90 | 46.20 | 572 | 2.14 | 0.15 | 31.3 |
| 4/17/2015 5:00:03 | 48.23 | 46.53 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 5:00:04 | 48.56 | 46.86 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 5:00:05 | 48.88 | 47.18 | 569 | 2.17 | 0.15 | 31.1 |
| 4/17/2015 5:00:05 | 49.21 | 47.51 | 569 | 2.15 | 0.15 | 31.1 |
| 4/17/2015 5:00:06 | 49.54 | 47.84 | 572 | 2.15 | 0.16 | 31.3 |
| 4/17/2015 5:00:06 | 49.87 | 48.17 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 5:00:43 | 50.20 | 48.50 | 0 | 2.19 | 1.11 | 0.0 |
| 4/17/2015 5:00:53 | 50.53 | 48.83 | 26 | 2.32 | 1.33 | 1.4 |
| 4/17/2015 5:00:57 | 50.85 | 49.15 | 107 | 2.38 | 1.24 | 5.9 |
| 4/17/2015 5:01:02 | 51.18 | 49.48 | 55 | 2.38 | 1.30 | 3.0 |
| 4/17/2015 5:01:09 | 51.51 | 49.81 | 51 | 2.39 | 1.27 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 5:01:12 | 51.68 | 49.98 | 59 | 2.36 | 1.22 | 3.2 |

## A47 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 4:57:53

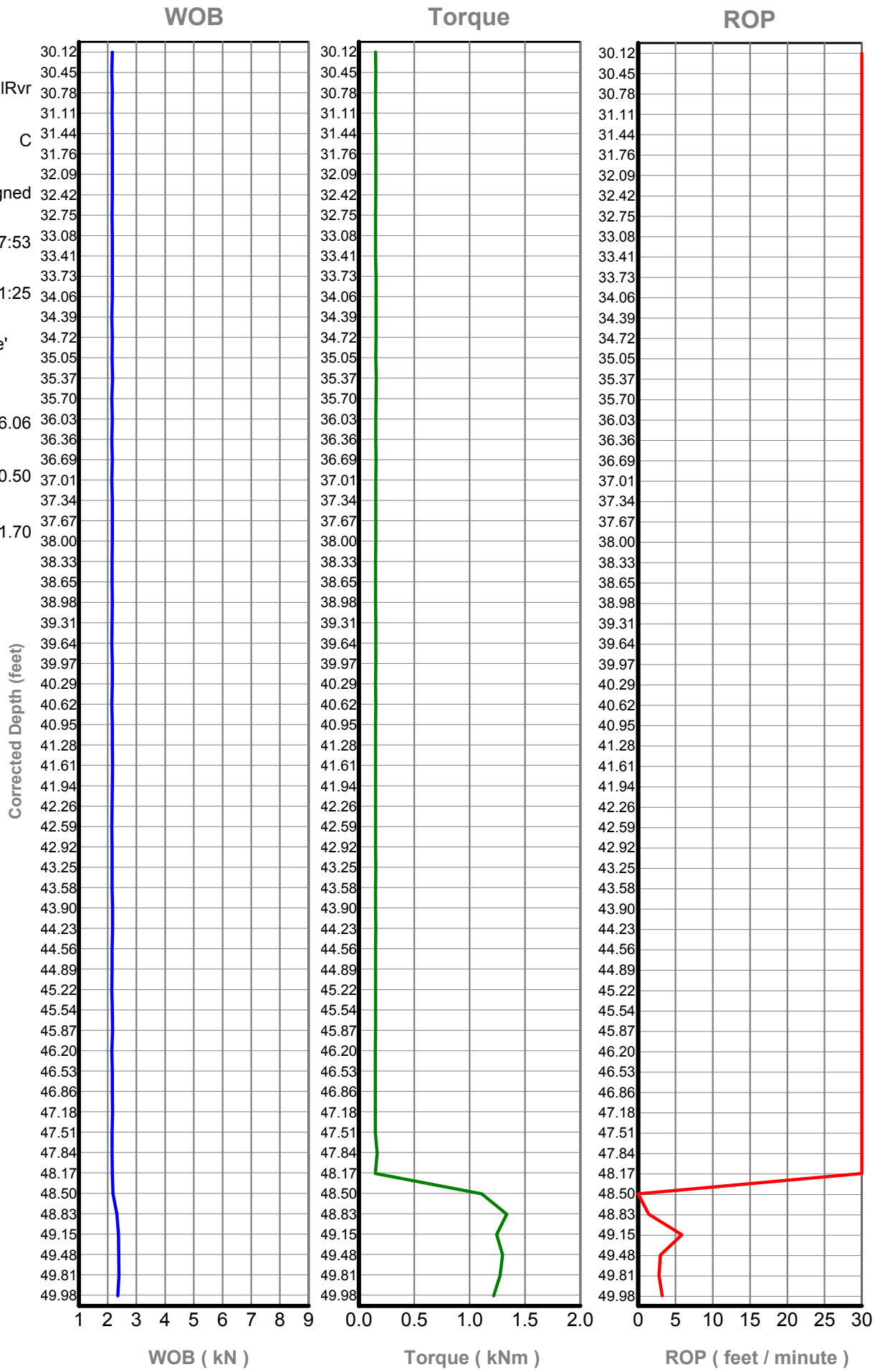
**End Date:**
4/17/2015 5:01:25

**Operator Note:**
'1.7 2.1 c Auto Complete'

**Northing:**
371,326.06

**Easting:**
259,650.50

**Tide (feet):**
1.70



## Hole: A48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:34:47 | 30.84 | 30.14 | 1,130 | 1.43 | 0.33 | 61.8 |
| 4/16/2015 17:34:47 | 31.17 | 30.47 | 1,130 | 1.43 | 0.33 | 61.8 |
| 4/16/2015 17:34:47 | 31.50 | 30.80 | 1,124 | 1.37 | 0.33 | 61.4 |
| 4/16/2015 17:34:48 | 31.82 | 31.12 | 1,124 | 1.37 | 0.33 | 61.4 |
| 4/16/2015 17:34:48 | 32.15 | 31.45 | 1,123 | 0.47 | 0.34 | 61.4 |
| 4/16/2015 17:34:48 | 32.48 | 31.78 | 1,124 | 0.47 | 0.33 | 61.5 |
| 4/16/2015 17:34:49 | 32.81 | 32.11 | 1,124 | 0.47 | 0.33 | 61.5 |
| 4/16/2015 17:34:49 | 33.14 | 32.44 | 1,127 | 0.47 | 0.33 | 61.6 |
| 4/16/2015 17:34:49 | 33.46 | 32.76 | 1,115 | 0.47 | 0.34 | 61.0 |
| 4/16/2015 17:34:50 | 33.79 | 33.09 | 1,115 | 0.47 | 0.34 | 61.0 |
| 4/16/2015 17:34:50 | 34.12 | 33.42 | 1,125 | 0.47 | 0.33 | 61.5 |
| 4/16/2015 17:34:50 | 34.45 | 33.75 | 1,125 | 0.47 | 0.33 | 61.5 |
| 4/16/2015 17:34:50 | 34.78 | 34.08 | 1,139 | 0.47 | 0.32 | 62.3 |
| 4/16/2015 17:34:51 | 35.11 | 34.41 | 1,120 | 0.48 | 0.32 | 61.2 |
| 4/16/2015 17:34:51 | 35.43 | 34.73 | 1,120 | 0.48 | 0.32 | 61.2 |
| 4/16/2015 17:34:52 | 35.76 | 35.06 | 1,120 | 0.48 | 0.33 | 61.2 |
| 4/16/2015 17:34:52 | 36.09 | 35.39 | 1,120 | 0.48 | 0.33 | 61.2 |
| 4/16/2015 17:34:52 | 36.42 | 35.72 | 1,113 | 0.48 | 0.33 | 60.9 |
| 4/16/2015 17:34:53 | 36.75 | 36.05 | 1,116 | 0.48 | 0.32 | 61.0 |
| 4/16/2015 17:34:53 | 37.07 | 36.37 | 1,116 | 0.48 | 0.32 | 61.0 |
| 4/16/2015 17:34:53 | 37.40 | 36.70 | 1,106 | 0.48 | 0.32 | 60.5 |
| 4/16/2015 17:34:54 | 37.73 | 37.03 | 1,106 | 0.48 | 0.32 | 60.5 |
| 4/16/2015 17:34:54 | 38.06 | 37.36 | 1,106 | 0.47 | 0.32 | 60.5 |
| 4/16/2015 17:34:54 | 38.39 | 37.69 | 1,108 | 0.46 | 0.33 | 60.6 |
| 4/16/2015 17:34:55 | 38.71 | 38.01 | 1,108 | 0.46 | 0.33 | 60.6 |
| 4/16/2015 17:34:55 | 39.04 | 38.34 | 1,114 | 0.48 | 0.32 | 60.9 |
| 4/16/2015 17:34:55 | 39.37 | 38.67 | 1,114 | 0.48 | 0.32 | 60.9 |
| 4/16/2015 17:34:55 | 39.70 | 39.00 | 1,114 | 0.48 | 0.33 | 60.9 |
| 4/16/2015 17:34:56 | 40.03 | 39.33 | 1,114 | 0.48 | 0.32 | 60.9 |
| 4/16/2015 17:34:56 | 40.35 | 39.65 | 1,114 | 0.48 | 0.32 | 60.9 |
| 4/16/2015 17:34:56 | 40.68 | 39.98 | 1,137 | 0.48 | 0.32 | 62.2 |
| 4/16/2015 17:34:57 | 41.01 | 40.31 | 1,134 | 0.48 | 0.32 | 62.0 |
| 4/16/2015 17:34:57 | 41.34 | 40.64 | 1,134 | 0.48 | 0.32 | 62.0 |
| 4/16/2015 17:34:57 | 41.67 | 40.97 | 1,103 | 0.48 | 0.32 | 60.3 |
| 4/16/2015 17:34:58 | 41.99 | 41.29 | 1,103 | 0.48 | 0.32 | 60.3 |
| 4/16/2015 17:34:58 | 42.32 | 41.62 | 1,103 | 0.47 | 0.32 | 60.3 |
| 4/16/2015 17:34:58 | 42.65 | 41.95 | 1,120 | 0.47 | 0.33 | 61.3 |
| 4/16/2015 17:34:59 | 42.98 | 42.28 | 1,120 | 0.47 | 0.33 | 61.3 |
| 4/16/2015 17:34:59 | 43.31 | 42.61 | 1,117 | 0.48 | 0.33 | 61.1 |
| 4/16/2015 17:34:59 | 43.64 | 42.94 | 1,117 | 0.48 | 0.33 | 61.1 |
| 4/16/2015 17:34:59 | 43.96 | 43.26 | 1,101 | 0.47 | 0.32 | 60.2 |
| 4/16/2015 17:35:00 | 44.29 | 43.59 | 1,097 | 0.47 | 0.33 | 60.0 |
| 4/16/2015 17:35:00 | 44.62 | 43.92 | 1,097 | 0.47 | 0.33 | 60.0 |
| 4/16/2015 17:35:00 | 44.95 | 44.25 | 1,106 | 0.64 | 0.32 | 60.5 |
| 4/16/2015 17:35:01 | 45.28 | 44.58 | 1,106 | 0.64 | 0.32 | 60.5 |
| 4/16/2015 17:35:01 | 45.60 | 44.90 | 1,106 | 0.48 | 0.33 | 60.5 |
| 4/16/2015 17:35:01 | 45.93 | 45.23 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/16/2015 17:35:02 | 46.26 | 45.56 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/16/2015 17:35:02 | 46.59 | 45.89 | 1,098 | 0.48 | 0.33 | 60.0 |
| 4/16/2015 17:35:03 | 46.92 | 46.22 | 1,094 | 0.47 | 0.32 | 59.8 |
| 4/16/2015 17:35:03 | 47.24 | 46.54 | 1,094 | 0.47 | 0.32 | 59.8 |
| 4/16/2015 17:35:03 | 47.57 | 46.87 | 1,098 | 0.47 | 0.32 | 60.0 |
| 4/16/2015 17:35:03 | 47.90 | 47.20 | 1,098 | 0.47 | 0.32 | 60.0 |
| 4/16/2015 17:35:04 | 48.23 | 47.53 | 1,098 | 0.48 | 0.32 | 60.0 |
| 4/16/2015 17:35:04 | 48.56 | 47.86 | 1,115 | 0.46 | 0.50 | 61.0 |
| 4/16/2015 17:36:04 | 48.88 | 48.18 | 0 | 4.58 | 0.47 | 0.0 |
| 4/16/2015 17:36:24 | 49.21 | 48.51 | 37 | 4.22 | 0.43 | 2.0 |
| 4/16/2015 17:36:29 | 49.54 | 48.84 | 81 | 3.67 | 0.41 | 4.4 |
| 4/16/2015 17:36:34 | 49.87 | 49.17 | 64 | 3.70 | 0.42 | 3.5 |
| 4/16/2015 17:36:39 | 50.20 | 49.50 | 72 | 3.66 | 0.11 | 3.9 |
| 4/16/2015 17:36:47 | 50.25 | 49.55 | 17 | 3.59 | 0.21 | 0.9 |

## A48 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:32:56

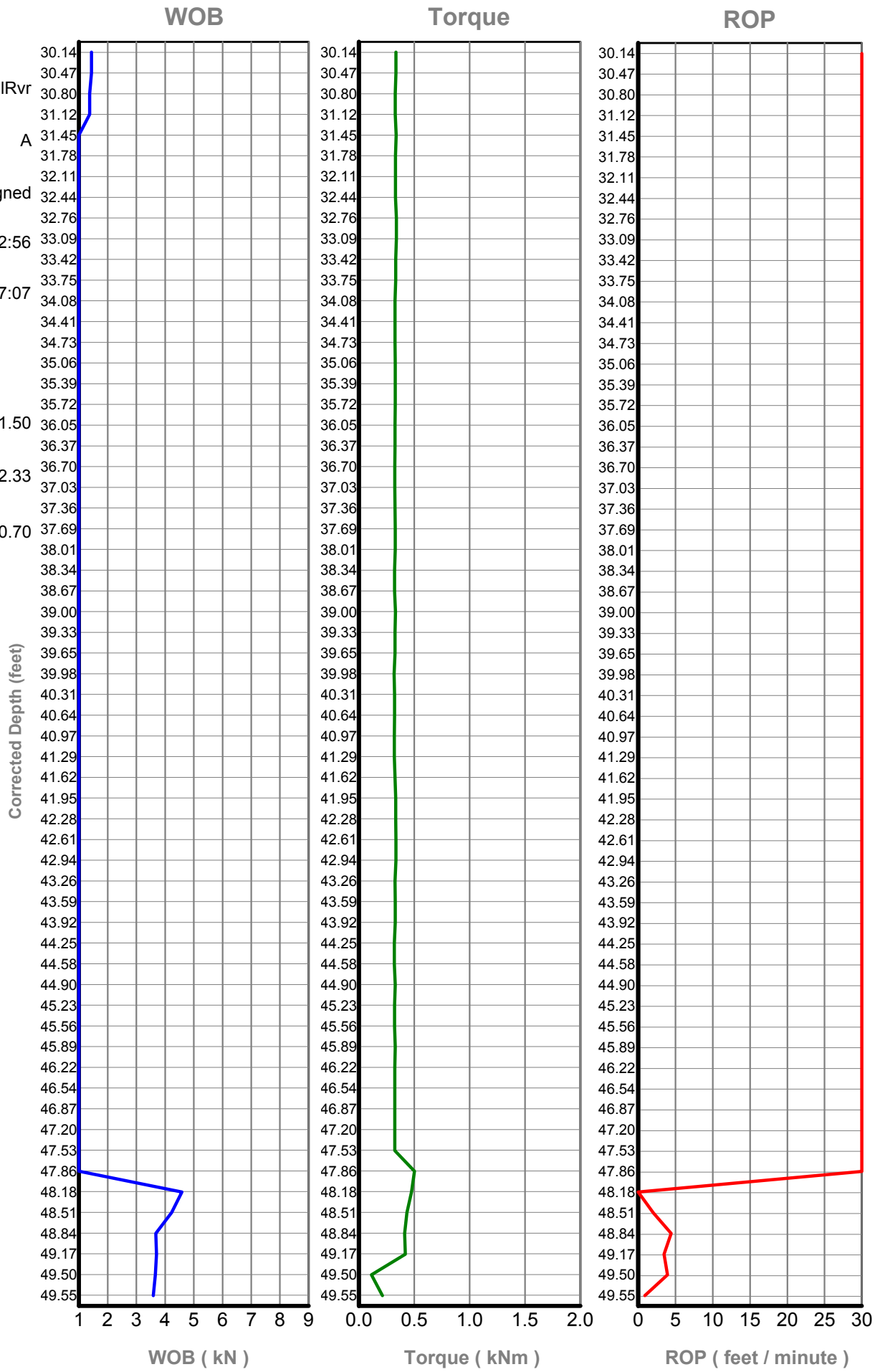
**End Date:**
4/16/2015 17:37:07

**Operator Note:**
'0.7 .9 a Auto Complete'

**Northing:**
371,321.50

**Easting:**
259,732.33

**Tide (feet):**
0.70



## Hole: A49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:33:41 | 30.84 | 30.14 | 957 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 17:33:42 | 31.17 | 30.47 | 957 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 17:33:42 | 31.50 | 30.80 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 17:33:42 | 31.82 | 31.12 | 939 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 17:33:43 | 32.15 | 31.45 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 17:33:43 | 32.48 | 31.78 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 17:33:43 | 32.81 | 32.11 | 942 | 0.29 | 0.42 | 51.5 |
| 4/16/2015 17:33:44 | 33.14 | 32.44 | 946 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 17:33:45 | 33.46 | 32.76 | 946 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 17:33:45 | 33.79 | 33.09 | 937 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:33:45 | 34.12 | 33.42 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 17:33:46 | 34.45 | 33.75 | 937 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:33:46 | 34.78 | 34.08 | 937 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 17:33:46 | 35.11 | 34.41 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 17:33:47 | 35.43 | 34.73 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:33:47 | 35.76 | 35.06 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:48 | 36.09 | 35.39 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:33:48 | 36.42 | 35.72 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:33:48 | 36.75 | 36.05 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:49 | 37.07 | 36.37 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:33:49 | 37.40 | 36.70 | 904 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:33:50 | 37.73 | 37.03 | 904 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:33:50 | 38.06 | 37.36 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:50 | 38.39 | 37.69 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:51 | 38.71 | 38.01 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:51 | 39.04 | 38.34 | 908 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:51 | 39.37 | 38.67 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:33:52 | 39.70 | 39.00 | 900 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 17:33:52 | 40.03 | 39.33 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:53 | 40.35 | 39.65 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:53 | 40.68 | 39.98 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 17:33:53 | 41.01 | 40.31 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:54 | 41.34 | 40.64 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 17:33:54 | 41.67 | 40.97 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 17:33:54 | 41.99 | 41.29 | 904 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 17:33:55 | 42.32 | 41.62 | 904 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 17:33:55 | 42.65 | 41.95 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:56 | 42.98 | 42.28 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:33:57 | 43.31 | 42.61 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:33:57 | 43.64 | 42.94 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 17:33:57 | 43.96 | 43.26 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 17:33:58 | 44.29 | 43.59 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:33:58 | 44.62 | 43.92 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:33:58 | 44.95 | 44.25 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 17:33:59 | 45.28 | 44.58 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:33:59 | 45.60 | 44.90 | 898 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:34:00 | 45.93 | 45.23 | 898 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:34:00 | 46.26 | 45.56 | 884 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 17:34:00 | 46.59 | 45.89 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 17:34:01 | 46.92 | 46.22 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:34:01 | 47.24 | 46.54 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 17:34:01 | 47.57 | 46.87 | 904 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 17:34:02 | 47.90 | 47.20 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:34:20 | 48.23 | 47.53 | 18 | 0.29 | 0.42 | 1.0 |
| 4/16/2015 17:34:25 | 48.56 | 47.86 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 17:34:29 | 48.88 | 48.18 | 75 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 17:34:34 | 49.21 | 48.51 | 102 | 0.29 | 0.42 | 5.6 |
| 4/16/2015 17:34:39 | 49.54 | 48.84 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 17:34:45 | 49.87 | 49.17 | 58 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 17:34:51 | 50.20 | 49.50 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 17:34:56 | 50.53 | 49.83 | 79 | 0.29 | 0.42 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:35:01 | 50.85 | 50.15 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 | 17:35:06 | 51.18 | 50.48 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 17:35:12 | 51.51 | 50.81 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 17:35:14 | 51.69 | 50.99 | 64 | 0.29 | 0.42 | 3.5 |

## A49 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:31:34

**End Date:**
4/16/2015 17:37:54

**Operator Note:**
'0.7 0.9 b Hit rock @ 49"

**Northing:**
371,321.17

**Easting:**
259,807.33

**Tide (feet):**
0.70



## Hole: A5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 15:59:22 | 32.48 | 30.18 | 879 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 15:59:23 | 32.81 | 30.51 | 879 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 15:59:23 | 33.14 | 30.84 | 871 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 15:59:23 | 33.46 | 31.16 | 876 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 15:59:24 | 33.79 | 31.49 | 877 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 15:59:24 | 34.12 | 31.82 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 15:59:25 | 34.45 | 32.15 | 843 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 15:59:25 | 34.78 | 32.48 | 843 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 15:59:46 | 35.11 | 32.81 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 15:59:47 | 35.43 | 33.13 | 60 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 15:59:48 | 35.76 | 33.46 | 282 | 0.29 | 0.42 | 15.4 |
| 4/16/2015 15:59:51 | 36.09 | 33.79 | 67 | 0.29 | 0.42 | 3.6 |
| 4/16/2015 15:59:56 | 36.42 | 34.12 | 75 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 15:59:57 | 36.75 | 34.45 | 153 | 0.29 | 0.42 | 8.4 |
| 4/16/2015 15:59:59 | 37.07 | 34.77 | 221 | 0.29 | 0.42 | 12.1 |
| 4/16/2015 16:00:07 | 37.40 | 35.10 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 16:00:16 | 37.73 | 35.43 | 32 | 0.29 | 0.42 | 1.7 |
| 4/16/2015 16:00:18 | 38.06 | 35.76 | 157 | 0.29 | 0.42 | 8.6 |
| 4/16/2015 16:00:19 | 38.39 | 36.09 | 273 | 0.29 | 0.42 | 14.9 |
| 4/16/2015 16:00:19 | 38.71 | 36.41 | 329 | 0.29 | 0.42 | 18.0 |
| 4/16/2015 16:00:25 | 39.04 | 36.74 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 16:00:26 | 39.37 | 37.07 | 134 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 16:00:28 | 39.70 | 37.40 | 250 | 0.29 | 0.42 | 13.7 |
| 4/16/2015 16:00:29 | 40.03 | 37.73 | 291 | 0.29 | 0.42 | 15.9 |
| 4/16/2015 16:00:30 | 40.35 | 38.05 | 276 | 0.29 | 0.42 | 15.1 |
| 4/16/2015 16:00:32 | 40.68 | 38.38 | 295 | 0.29 | 0.42 | 16.1 |
| 4/16/2015 16:00:33 | 41.01 | 38.71 | 324 | 0.29 | 0.42 | 17.7 |
| 4/16/2015 16:00:33 | 41.34 | 39.04 | 350 | 0.29 | 0.42 | 19.1 |
| 4/16/2015 16:00:35 | 41.67 | 39.37 | 341 | 0.29 | 0.42 | 18.6 |
| 4/16/2015 16:01:00 | 41.99 | 39.69 | 88 | 0.29 | 0.42 | 4.8 |
| 4/16/2015 16:01:03 | 42.32 | 40.02 | 168 | 0.29 | 0.42 | 9.2 |
| 4/16/2015 16:01:11 | 42.65 | 40.35 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 16:08:44 | 42.98 | 40.68 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 16:10:26 | 43.31 | 41.01 | 55 | 0.29 | 0.42 | 3.0 |
| 4/16/2015 16:10:36 | 43.64 | 41.34 | 43 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 16:10:39 | 43.77 | 41.47 | 49 | 0.29 | 0.42 | 2.7 |

## A5 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 15:39:09

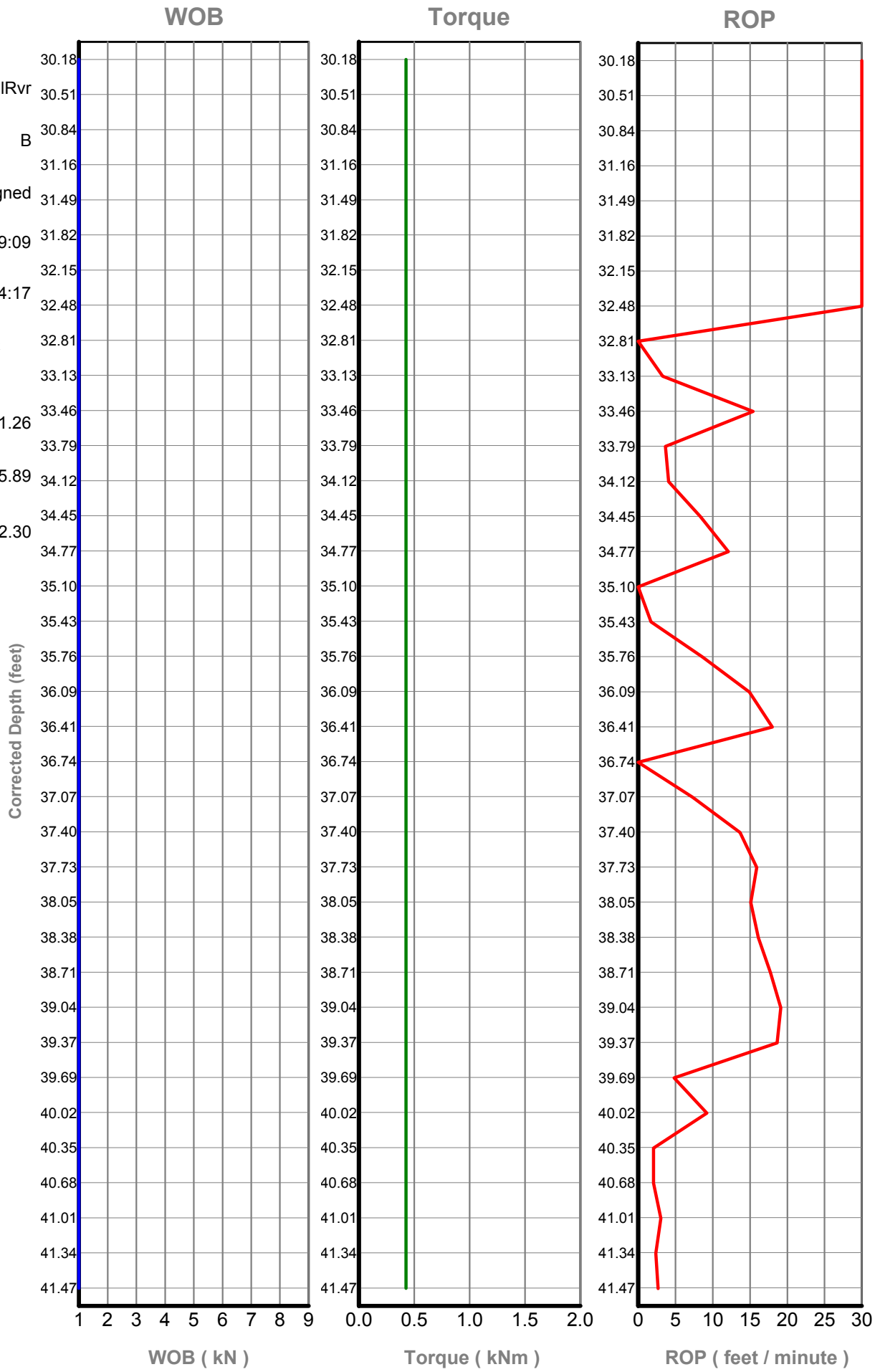
**End Date:**
4/16/2015 16:14:17

**Operator Note:**
'2.3 2.4 b Hi bed rock @ 42' Hit bedrock @ 42"

**Northing:**
371,621.26

**Easting:**
259,815.89

**Tide (feet):**
2.30



## Hole: A50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:35:00 | 30.84 | 30.24 | 740 | 2.24 | 0.13 | 40.5 |
| 4/16/2015 17:35:01 | 31.17 | 30.57 | 736 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:01 | 31.50 | 30.90 | 740 | 2.25 | 0.13 | 40.5 |
| 4/16/2015 17:35:02 | 31.82 | 31.22 | 743 | 2.24 | 0.13 | 40.6 |
| 4/16/2015 17:35:02 | 32.15 | 31.55 | 740 | 2.25 | 0.13 | 40.5 |
| 4/16/2015 17:35:03 | 32.48 | 31.88 | 740 | 2.26 | 0.13 | 40.5 |
| 4/16/2015 17:35:03 | 32.81 | 32.21 | 740 | 2.26 | 0.13 | 40.5 |
| 4/16/2015 17:35:04 | 33.14 | 32.54 | 740 | 2.25 | 0.13 | 40.5 |
| 4/16/2015 17:35:04 | 33.46 | 32.86 | 734 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:05 | 33.79 | 33.19 | 740 | 2.25 | 0.13 | 40.5 |
| 4/16/2015 17:35:05 | 34.12 | 33.52 | 740 | 2.26 | 0.13 | 40.5 |
| 4/16/2015 17:35:06 | 34.45 | 33.85 | 740 | 2.27 | 0.13 | 40.5 |
| 4/16/2015 17:35:06 | 34.78 | 34.18 | 743 | 2.25 | 0.13 | 40.6 |
| 4/16/2015 17:35:07 | 35.11 | 34.51 | 749 | 2.26 | 0.13 | 41.0 |
| 4/16/2015 17:35:07 | 35.43 | 34.83 | 740 | 2.24 | 0.13 | 40.5 |
| 4/16/2015 17:35:08 | 35.76 | 35.16 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:35:08 | 36.09 | 35.49 | 735 | 2.24 | 0.13 | 40.2 |
| 4/16/2015 17:35:09 | 36.42 | 35.82 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:09 | 36.75 | 36.15 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:10 | 37.07 | 36.47 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:35:10 | 37.40 | 36.80 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:35:10 | 37.73 | 37.13 | 736 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:11 | 38.06 | 37.46 | 742 | 2.25 | 0.13 | 40.6 |
| 4/16/2015 17:35:11 | 38.39 | 37.79 | 738 | 2.24 | 0.13 | 40.3 |
| 4/16/2015 17:35:12 | 38.71 | 38.11 | 733 | 2.24 | 0.13 | 40.1 |
| 4/16/2015 17:35:12 | 39.04 | 38.44 | 742 | 2.25 | 0.13 | 40.6 |
| 4/16/2015 17:35:13 | 39.37 | 38.77 | 742 | 2.25 | 0.13 | 40.6 |
| 4/16/2015 17:35:13 | 39.70 | 39.10 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:14 | 40.03 | 39.43 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:15 | 40.35 | 39.75 | 737 | 2.26 | 0.13 | 40.3 |
| 4/16/2015 17:35:15 | 40.68 | 40.08 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:16 | 41.01 | 40.41 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:16 | 41.34 | 40.74 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:35:17 | 41.67 | 41.07 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:17 | 41.99 | 41.39 | 737 | 2.25 | 0.13 | 40.3 |
| 4/16/2015 17:35:17 | 42.32 | 41.72 | 737 | 2.26 | 0.13 | 40.3 |
| 4/16/2015 17:35:18 | 42.65 | 42.05 | 737 | 2.26 | 0.13 | 40.3 |
| 4/16/2015 17:35:18 | 42.98 | 42.38 | 734 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:19 | 43.31 | 42.71 | 733 | 2.25 | 0.13 | 40.1 |
| 4/16/2015 17:35:19 | 43.64 | 43.04 | 735 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:20 | 43.96 | 43.36 | 735 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:35:20 | 44.29 | 43.69 | 735 | 2.26 | 0.13 | 40.2 |
| 4/16/2015 17:35:21 | 44.62 | 44.02 | 733 | 2.29 | 0.13 | 40.1 |
| 4/16/2015 17:35:39 | 44.95 | 44.35 | 43 | 2.69 | 1.35 | 2.4 |
| 4/16/2015 17:35:44 | 45.28 | 44.68 | 64 | 2.48 | 1.26 | 3.5 |
| 4/16/2015 17:35:48 | 45.60 | 45.00 | 95 | 2.49 | 1.30 | 5.2 |
| 4/16/2015 17:35:52 | 45.93 | 45.33 | 81 | 2.50 | 1.25 | 4.4 |
| 4/16/2015 17:35:57 | 46.26 | 45.66 | 75 | 2.50 | 1.27 | 4.1 |
| 4/16/2015 17:36:02 | 46.59 | 45.99 | 75 | 2.49 | 1.23 | 4.1 |
| 4/16/2015 17:36:06 | 46.92 | 46.32 | 87 | 2.50 | 1.27 | 4.8 |
| 4/16/2015 17:36:10 | 47.24 | 46.64 | 80 | 2.53 | 1.30 | 4.4 |
| 4/16/2015 17:36:15 | 47.57 | 46.97 | 79 | 2.52 | 1.27 | 4.3 |
| 4/16/2015 17:36:19 | 47.90 | 47.30 | 78 | 2.50 | 1.33 | 4.3 |
| 4/16/2015 17:36:25 | 48.23 | 47.63 | 67 | 2.52 | 1.31 | 3.6 |
| 4/16/2015 17:36:30 | 48.56 | 47.96 | 69 | 2.52 | 1.35 | 3.8 |
| 4/16/2015 17:36:35 | 48.88 | 48.28 | 67 | 2.50 | 1.37 | 3.6 |
| 4/16/2015 17:36:37 | 49.03 | 48.43 | 61 | 2.52 | 1.27 | 3.3 |

## A50 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:33:29

**End Date:**
4/16/2015 17:38:36

**Operator Note:**
'0.6 0.9 c Auto Complete'

**Northing:**
371,320.83

**Easting:**
259,882.33

**Tide (feet):**
0.60



## Hole: A51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:59:31 | 34.12 | 30.22 | 1,073 | 0.45 | 0.32 | 58.7 |
| 4/15/2015 13:59:31 | 34.45 | 30.55 | 1,070 | 0.45 | 0.31 | 58.5 |
| 4/15/2015 13:59:32 | 34.78 | 30.88 | 1,070 | 0.45 | 0.31 | 58.5 |
| 4/15/2015 13:59:32 | 35.11 | 31.21 | 1,070 | 0.45 | 0.31 | 58.5 |
| 4/15/2015 13:59:32 | 35.43 | 31.53 | 1,072 | 0.45 | 0.32 | 58.6 |
| 4/15/2015 13:59:33 | 35.76 | 31.86 | 1,072 | 0.45 | 0.32 | 58.6 |
| 4/15/2015 13:59:33 | 36.09 | 32.19 | 1,063 | 0.45 | 0.32 | 58.1 |
| 4/15/2015 13:59:33 | 36.42 | 32.52 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:34 | 36.75 | 32.85 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:34 | 37.07 | 33.17 | 1,063 | 0.45 | 0.31 | 58.1 |
| 4/15/2015 13:59:35 | 37.40 | 33.50 | 1,072 | 0.45 | 0.31 | 58.6 |
| 4/15/2015 13:59:35 | 37.73 | 33.83 | 1,072 | 0.45 | 0.31 | 58.6 |
| 4/15/2015 13:59:35 | 38.06 | 34.16 | 1,070 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:59:36 | 38.39 | 34.49 | 1,073 | 0.45 | 0.32 | 58.7 |
| 4/15/2015 13:59:36 | 38.71 | 34.81 | 1,073 | 0.45 | 0.32 | 58.7 |
| 4/15/2015 13:59:36 | 39.04 | 35.14 | 1,070 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:59:37 | 39.37 | 35.47 | 1,070 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:59:37 | 39.70 | 35.80 | 1,070 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:59:37 | 40.03 | 36.13 | 1,067 | 0.45 | 0.31 | 58.3 |
| 4/15/2015 13:59:38 | 40.35 | 36.45 | 1,067 | 0.45 | 0.31 | 58.3 |
| 4/15/2015 13:59:38 | 40.68 | 36.78 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:38 | 41.01 | 37.11 | 1,060 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:39 | 41.34 | 37.44 | 1,060 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:39 | 41.67 | 37.77 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:39 | 41.99 | 38.09 | 1,064 | 0.45 | 0.32 | 58.2 |
| 4/15/2015 13:59:40 | 42.32 | 38.42 | 1,064 | 0.45 | 0.32 | 58.2 |
| 4/15/2015 13:59:40 | 42.65 | 38.75 | 1,064 | 0.45 | 0.32 | 58.2 |
| 4/15/2015 13:59:40 | 42.98 | 39.08 | 1,061 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:41 | 43.31 | 39.41 | 1,061 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:41 | 43.64 | 39.74 | 1,067 | 0.45 | 0.31 | 58.3 |
| 4/15/2015 13:59:41 | 43.96 | 40.06 | 1,064 | 0.45 | 0.32 | 58.2 |
| 4/15/2015 13:59:42 | 44.29 | 40.39 | 1,064 | 0.45 | 0.32 | 58.2 |
| 4/15/2015 13:59:42 | 44.62 | 40.72 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:42 | 44.95 | 41.05 | 1,067 | 0.45 | 0.32 | 58.3 |
| 4/15/2015 13:59:42 | 45.28 | 41.38 | 1,055 | 0.45 | 0.32 | 57.7 |
| 4/15/2015 13:59:43 | 45.60 | 41.70 | 1,067 | 0.45 | 0.31 | 58.3 |
| 4/15/2015 13:59:43 | 45.93 | 42.03 | 1,067 | 0.45 | 0.31 | 58.3 |
| 4/15/2015 13:59:43 | 46.26 | 42.36 | 1,058 | 0.45 | 0.32 | 57.9 |
| 4/15/2015 13:59:44 | 46.59 | 42.69 | 1,058 | 0.45 | 0.31 | 57.9 |
| 4/15/2015 13:59:45 | 46.92 | 43.02 | 1,058 | 0.45 | 0.31 | 57.9 |
| 4/15/2015 13:59:45 | 47.24 | 43.34 | 1,055 | 0.45 | 0.32 | 57.7 |
| 4/15/2015 13:59:45 | 47.57 | 43.67 | 1,061 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:46 | 47.90 | 44.00 | 1,061 | 0.45 | 0.32 | 58.0 |
| 4/15/2015 13:59:46 | 48.23 | 44.33 | 1,055 | 0.44 | 0.38 | 57.7 |
| 4/15/2015 14:00:14 | 48.56 | 44.66 | 26 | 4.38 | 0.46 | 1.4 |
| 4/15/2015 14:00:18 | 48.88 | 44.98 | 82 | 4.44 | 0.46 | 4.5 |
| 4/15/2015 14:00:21 | 49.21 | 45.31 | 124 | 4.67 | 0.43 | 6.8 |
| 4/15/2015 14:00:23 | 49.54 | 45.64 | 139 | 4.91 | 0.41 | 7.6 |
| 4/15/2015 14:00:29 | 49.87 | 45.97 | 23 | 2.76 | 0.40 | 1.3 |
| 4/15/2015 14:00:38 | 50.06 | 46.16 | 17 | 3.87 | 0.17 | 0.9 |

## A51 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:57:39

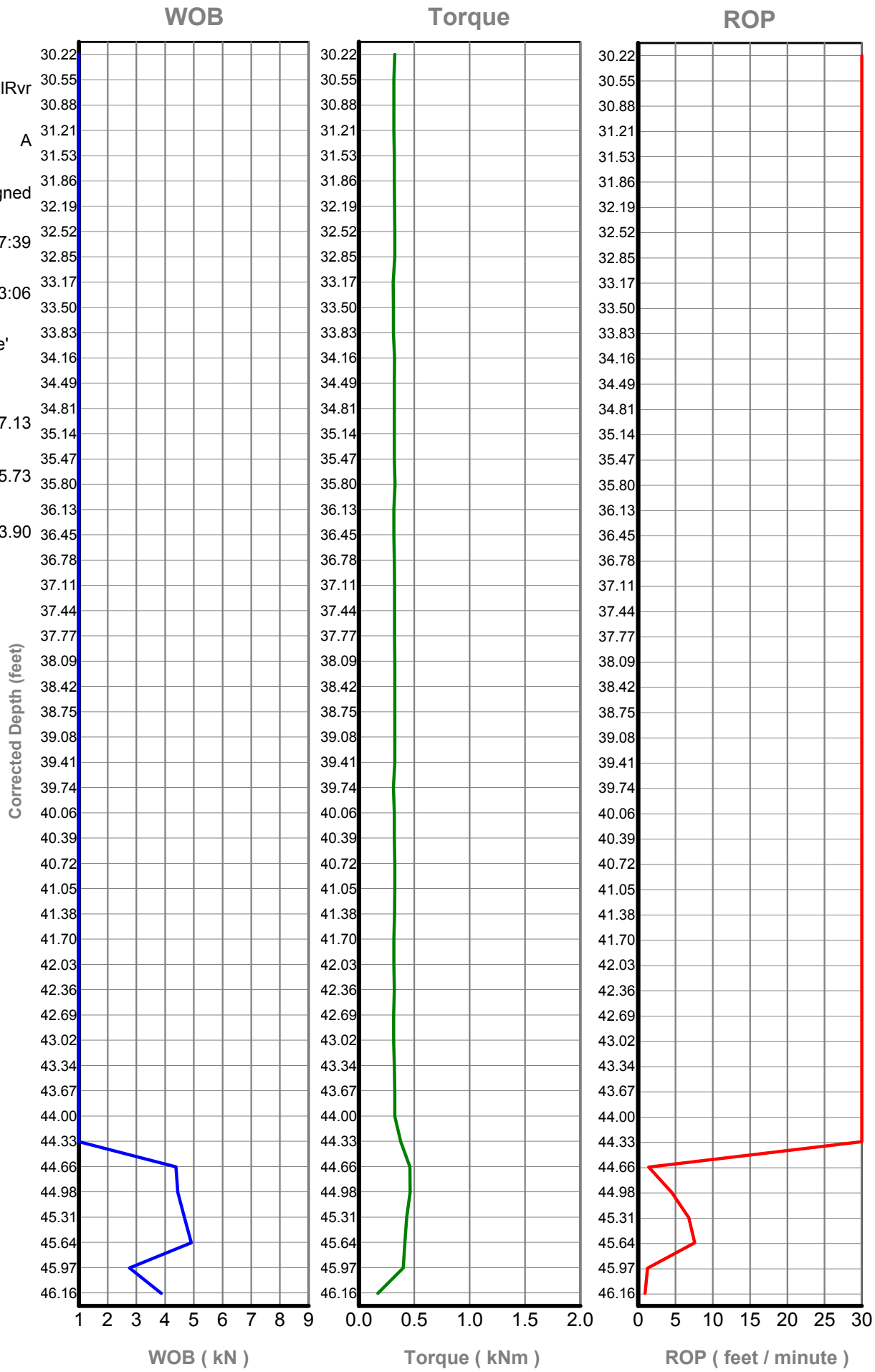
**End Date:**
4/15/2015 14:03:06

**Operator Note:**
'3.9 4.4 a Auto Complete'

**Northing:**
371,317.13

**Easting:**
259,945.73

**Tide (feet):**
3.90



## Hole: A52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 13:58:46 | 34.12 | 30.12 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 13:58:47 | 34.45 | 30.45 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 13:58:47 | 34.78 | 30.78 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 13:58:47 | 35.11 | 31.11 | 869 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 13:58:48 | 35.43 | 31.43 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 13:58:48 | 35.76 | 31.76 | 873 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 13:58:49 | 36.09 | 32.09 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 13:58:49 | 36.42 | 32.42 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 13:58:49 | 36.75 | 32.75 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 13:58:50 | 37.07 | 33.07 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:58:50 | 37.40 | 33.40 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:58:51 | 37.73 | 33.73 | 850 | 0.29 | 0.42 | 46.5 |
| 4/16/2015 13:58:51 | 38.06 | 34.06 | 855 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:58:52 | 38.39 | 34.39 | 855 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:58:52 | 38.71 | 34.71 | 855 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:58:52 | 39.04 | 35.04 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:53 | 39.37 | 35.37 | 863 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 13:58:53 | 39.70 | 35.70 | 860 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 13:58:54 | 40.03 | 36.03 | 860 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 13:58:54 | 40.35 | 36.35 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:58:55 | 40.68 | 36.68 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:58:55 | 41.01 | 37.01 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:56 | 41.34 | 37.34 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:56 | 41.67 | 37.67 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:56 | 41.99 | 37.99 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:57 | 42.32 | 38.32 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:58:57 | 42.65 | 38.65 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:58:58 | 42.98 | 38.98 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 13:58:58 | 43.31 | 39.31 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 13:58:58 | 43.64 | 39.64 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 13:58:59 | 43.96 | 39.96 | 856 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:58:59 | 44.29 | 40.29 | 863 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 13:59:00 | 44.62 | 40.62 | 856 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:00 | 44.95 | 40.95 | 856 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:00 | 45.28 | 41.28 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 13:59:01 | 45.60 | 41.60 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:01 | 45.93 | 41.93 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:02 | 46.26 | 42.26 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:02 | 46.59 | 42.59 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:02 | 46.92 | 42.92 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:03 | 47.24 | 43.24 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:03 | 47.57 | 43.57 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:04 | 47.90 | 43.90 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:04 | 48.23 | 44.23 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:04 | 48.56 | 44.56 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 13:59:05 | 48.88 | 44.88 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 13:59:05 | 49.21 | 45.21 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 13:59:06 | 49.54 | 45.54 | 859 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 13:59:07 | 49.87 | 45.87 | 859 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 13:59:07 | 50.20 | 46.20 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 13:59:07 | 50.53 | 46.53 | 866 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 13:59:08 | 50.85 | 46.85 | 859 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 13:59:08 | 51.18 | 47.18 | 848 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:59:09 | 51.51 | 47.51 | 848 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:59:09 | 51.84 | 47.84 | 856 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 13:59:09 | 52.17 | 48.17 | 832 | 0.29 | 0.42 | 45.5 |
| 4/16/2015 13:59:10 | 52.49 | 48.49 | 832 | 0.29 | 0.42 | 45.5 |
| 4/16/2015 13:59:10 | 52.82 | 48.82 | 838 | 0.29 | 0.42 | 45.8 |
| 4/16/2015 13:59:11 | 53.15 | 49.15 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:59:11 | 53.48 | 49.48 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 13:59:11 | 53.81 | 49.81 | 857 | 0.29 | 0.42 | 46.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 13:59:12 | 54.13 | 50.13 | 845 | 0.29 | 0.42 | 46.2 |
| 4/16/2015 | 13:59:12 | 54.46 | 50.46 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 | 13:59:13 | 54.79 | 50.79 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 | 13:59:13 | 55.12 | 51.12 | 814 | 0.29 | 0.42 | 44.5 |
| 4/16/2015 | 13:59:28 | 55.45 | 51.45 | 116 | 0.29 | 0.42 | 6.4 |
| 4/16/2015 | 13:59:33 | 55.77 | 51.77 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 | 13:59:37 | 56.10 | 52.10 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 13:59:38 | 56.43 | 52.43 | 178 | 0.29 | 0.42 | 9.7 |
| 4/16/2015 | 13:59:40 | 56.76 | 52.76 | 215 | 0.29 | 0.42 | 11.8 |
| 4/16/2015 | 13:59:42 | 57.09 | 53.09 | 238 | 0.29 | 0.42 | 13.0 |
| 4/16/2015 | 13:59:46 | 57.41 | 53.41 | 102 | 0.29 | 0.42 | 5.6 |
| 4/16/2015 | 13:59:48 | 57.74 | 53.74 | 253 | 0.29 | 0.42 | 13.8 |
| 4/16/2015 | 13:59:53 | 58.07 | 54.07 | 45 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 13:59:58 | 58.40 | 54.40 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 14:00:02 | 58.73 | 54.73 | 81 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 | 14:00:08 | 59.06 | 55.06 | 61 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 | 14:00:16 | 59.38 | 55.38 | 41 | 0.29 | 0.42 | 2.2 |

## A52 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:56:23

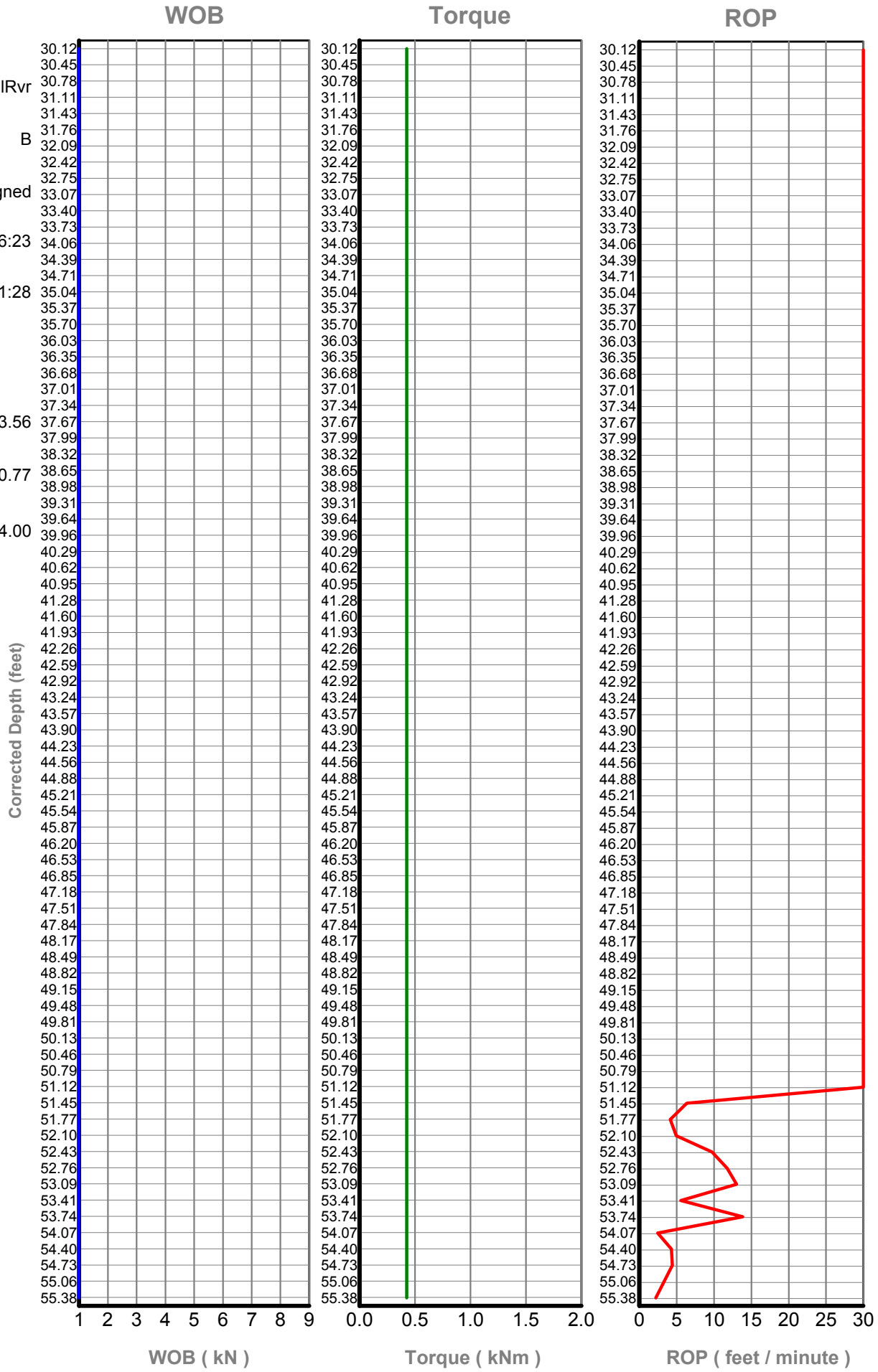
**End Date:**
4/16/2015 14:11:28

**Operator Note:**
'4 4.4 b Auto Complete'

**Northing:**
371,313.56

**Easting:**
260,020.77

**Tide (feet):**
4.00



## Hole: A54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:31:11 | 36.09 | 30.19 | 1,186 | 1.85 | 0.34 | 64.9 |
| 4/17/2015 11:31:12 | 36.42 | 30.52 | 1,175 | 1.87 | 0.34 | 64.3 |
| 4/17/2015 11:31:12 | 36.75 | 30.85 | 1,175 | 1.87 | 0.34 | 64.3 |
| 4/17/2015 11:31:12 | 37.07 | 31.17 | 1,192 | 1.85 | 0.34 | 65.2 |
| 4/17/2015 11:31:13 | 37.40 | 31.50 | 1,192 | 1.85 | 0.34 | 65.2 |
| 4/17/2015 11:31:13 | 37.73 | 31.83 | 1,184 | 1.85 | 0.34 | 64.8 |
| 4/17/2015 11:31:13 | 38.06 | 32.16 | 1,184 | 1.85 | 0.34 | 64.8 |
| 4/17/2015 11:31:13 | 38.39 | 32.49 | 1,192 | 1.85 | 0.34 | 65.2 |
| 4/17/2015 11:31:14 | 38.71 | 32.81 | 1,197 | 1.85 | 0.34 | 65.5 |
| 4/17/2015 11:31:14 | 39.04 | 33.14 | 1,197 | 1.85 | 0.34 | 65.5 |
| 4/17/2015 11:31:14 | 39.37 | 33.47 | 1,214 | 1.86 | 0.34 | 66.4 |
| 4/17/2015 11:31:15 | 39.70 | 33.80 | 1,214 | 1.86 | 0.34 | 66.4 |
| 4/17/2015 11:31:15 | 40.03 | 34.13 | 1,188 | 1.85 | 0.34 | 65.0 |
| 4/17/2015 11:31:15 | 40.35 | 34.45 | 1,188 | 1.85 | 0.35 | 65.0 |
| 4/17/2015 11:31:16 | 40.68 | 34.78 | 1,188 | 1.85 | 0.35 | 65.0 |
| 4/17/2015 11:31:16 | 41.01 | 35.11 | 1,187 | 1.87 | 0.34 | 64.9 |
| 4/17/2015 11:31:16 | 41.34 | 35.44 | 1,187 | 1.87 | 0.34 | 64.9 |
| 4/17/2015 11:31:16 | 41.67 | 35.77 | 1,186 | 1.84 | 0.34 | 64.8 |
| 4/17/2015 11:31:17 | 41.99 | 36.09 | 1,186 | 1.84 | 0.34 | 64.8 |
| 4/17/2015 11:31:17 | 42.32 | 36.42 | 1,172 | 1.85 | 0.35 | 64.1 |
| 4/17/2015 11:31:17 | 42.65 | 36.75 | 1,160 | 1.85 | 0.34 | 63.4 |
| 4/17/2015 11:31:18 | 42.98 | 37.08 | 1,160 | 1.85 | 0.34 | 63.4 |
| 4/17/2015 11:31:18 | 43.31 | 37.41 | 1,160 | 1.84 | 0.34 | 63.4 |
| 4/17/2015 11:31:18 | 43.64 | 37.74 | 1,160 | 1.84 | 0.34 | 63.4 |
| 4/17/2015 11:31:18 | 43.96 | 38.06 | 1,191 | 1.85 | 0.34 | 65.1 |
| 4/17/2015 11:31:19 | 44.29 | 38.39 | 1,191 | 1.85 | 0.34 | 65.1 |
| 4/17/2015 11:31:19 | 44.62 | 38.72 | 1,181 | 1.85 | 0.34 | 64.6 |
| 4/17/2015 11:31:19 | 44.95 | 39.05 | 1,182 | 1.84 | 0.34 | 64.7 |
| 4/17/2015 11:31:20 | 45.28 | 39.38 | 1,182 | 1.84 | 0.34 | 64.7 |
| 4/17/2015 11:31:20 | 45.60 | 39.70 | 1,190 | 1.85 | 0.34 | 65.1 |
| 4/17/2015 11:31:20 | 45.93 | 40.03 | 1,190 | 1.85 | 0.34 | 65.1 |
| 4/17/2015 11:31:20 | 46.26 | 40.36 | 1,195 | 1.83 | 0.34 | 65.4 |
| 4/17/2015 11:31:21 | 46.59 | 40.69 | 1,195 | 1.83 | 0.34 | 65.4 |
| 4/17/2015 11:31:21 | 46.92 | 41.02 | 1,185 | 1.84 | 0.34 | 64.8 |
| 4/17/2015 11:31:21 | 47.24 | 41.34 | 1,185 | 1.85 | 0.34 | 64.8 |
| 4/17/2015 11:31:22 | 47.57 | 41.67 | 1,185 | 1.85 | 0.34 | 64.8 |
| 4/17/2015 11:31:22 | 47.90 | 42.00 | 1,178 | 1.84 | 0.35 | 64.4 |
| 4/17/2015 11:31:23 | 48.23 | 42.33 | 1,178 | 1.84 | 0.35 | 64.4 |
| 4/17/2015 11:31:23 | 48.56 | 42.66 | 1,177 | 1.85 | 0.33 | 64.3 |
| 4/17/2015 11:31:23 | 48.88 | 42.98 | 1,189 | 1.84 | 0.35 | 65.0 |
| 4/17/2015 11:31:24 | 49.21 | 43.31 | 1,189 | 1.84 | 0.35 | 65.0 |
| 4/17/2015 11:31:24 | 49.54 | 43.64 | 1,171 | 1.84 | 0.36 | 64.0 |
| 4/17/2015 11:31:24 | 49.87 | 43.97 | 1,114 | 1.84 | 0.41 | 60.9 |
| 4/17/2015 11:31:25 | 50.20 | 44.30 | 934 | 1.84 | 0.35 | 51.1 |
| 4/17/2015 11:31:25 | 50.53 | 44.63 | 878 | 1.84 | 0.34 | 48.0 |
| 4/17/2015 11:31:26 | 50.85 | 44.95 | 820 | 1.84 | 0.35 | 44.9 |
| 4/17/2015 11:31:26 | 51.18 | 45.28 | 820 | 1.84 | 0.35 | 44.9 |
| 4/17/2015 11:31:26 | 51.51 | 45.61 | 788 | 1.84 | 0.35 | 43.1 |
| 4/17/2015 11:31:27 | 51.84 | 45.94 | 814 | 2.53 | 0.38 | 44.5 |
| 4/17/2015 11:31:32 | 52.17 | 46.27 | 0 | 3.60 | 0.46 | 0.0 |
| 4/17/2015 11:31:35 | 52.49 | 46.59 | 173 | 4.14 | 0.49 | 9.5 |
| 4/17/2015 11:31:38 | 52.82 | 46.92 | 110 | 4.00 | 0.50 | 6.0 |
| 4/17/2015 11:31:43 | 53.15 | 47.25 | 81 | 3.94 | 0.50 | 4.4 |
| 4/17/2015 11:31:47 | 53.48 | 47.58 | 93 | 3.94 | 0.49 | 5.1 |
| 4/17/2015 11:31:50 | 53.81 | 47.91 | 113 | 3.81 | 0.36 | 6.2 |
| 4/17/2015 11:31:50 | 54.13 | 48.23 | 150 | 3.68 | 0.40 | 8.2 |
| 4/17/2015 11:31:52 | 54.46 | 48.56 | 312 | 3.58 | 0.20 | 17.0 |
| 4/17/2015 11:31:53 | 54.79 | 48.89 | 358 | 3.64 | 0.43 | 19.6 |
| 4/17/2015 11:31:54 | 55.12 | 49.22 | 333 | 3.66 | 0.40 | 18.2 |
| 4/17/2015 11:31:55 | 55.45 | 49.55 | 344 | 3.83 | 0.41 | 18.8 |
| 4/17/2015 11:31:56 | 55.77 | 49.87 | 292 | 3.81 | 0.40 | 15.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:31:58 | 56.10 | 50.20 | 255 | 4.02 | 0.44 | 13.9 |
| 4/17/2015 | 11:32:00 | 56.43 | 50.53 | 176 | 3.83 | 0.43 | 9.6 |
| 4/17/2015 | 11:32:02 | 56.76 | 50.86 | 194 | 3.68 | 0.41 | 10.6 |
| 4/17/2015 | 11:32:04 | 57.09 | 51.19 | 200 | 3.79 | 0.41 | 10.9 |
| 4/17/2015 | 11:32:06 | 57.41 | 51.51 | 191 | 3.73 | 0.42 | 10.4 |
| 4/17/2015 | 11:32:08 | 57.74 | 51.84 | 165 | 3.73 | 0.43 | 9.0 |
| 4/17/2015 | 11:32:10 | 58.07 | 52.17 | 169 | 3.72 | 0.44 | 9.2 |
| 4/17/2015 | 11:32:12 | 58.40 | 52.50 | 169 | 3.85 | 0.43 | 9.3 |
| 4/17/2015 | 11:32:13 | 58.73 | 52.83 | 181 | 3.92 | 0.40 | 9.9 |
| 4/17/2015 | 11:32:15 | 59.06 | 53.16 | 229 | 3.59 | 0.39 | 12.5 |
| 4/17/2015 | 11:32:17 | 59.38 | 53.48 | 208 | 3.88 | 0.46 | 11.4 |
| 4/17/2015 | 11:32:22 | 59.71 | 53.81 | 67 | 3.89 | 0.45 | 3.6 |
| 4/17/2015 | 11:32:27 | 60.04 | 54.14 | 69 | 3.88 | 0.42 | 3.8 |
| 4/17/2015 | 11:32:32 | 60.37 | 54.47 | 70 | 3.89 | 0.44 | 3.8 |
| 4/17/2015 | 11:32:37 | 60.70 | 54.80 | 83 | 3.62 | 0.41 | 4.5 |
| 4/17/2015 | 11:32:47 | 60.87 | 54.97 | 29 | 3.64 | 0.19 | 1.6 |

## A54 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:29:37

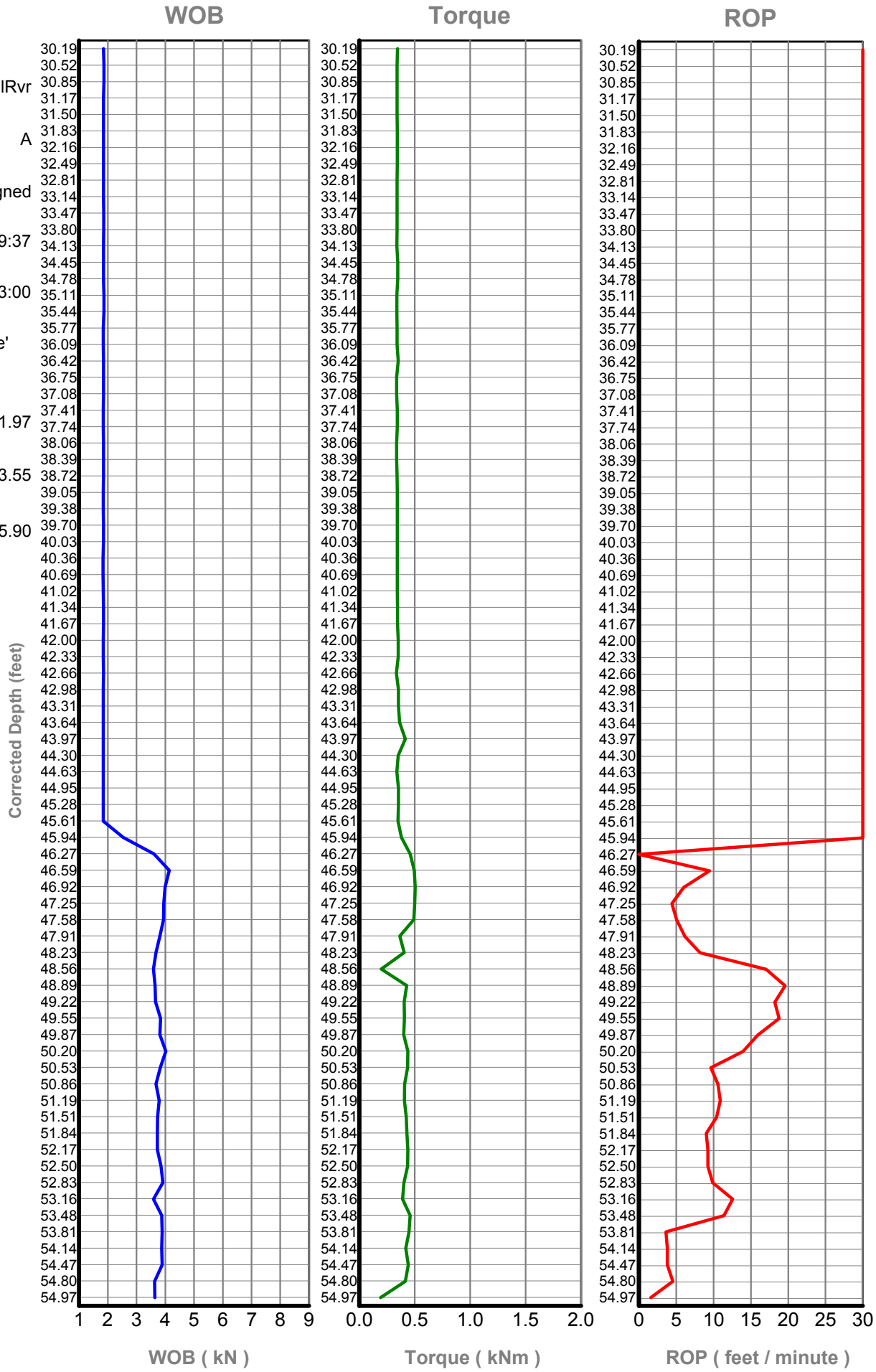
**End Date:**
4/17/2015 11:33:00

**Operator Note:**
'5.9 5.8 a Auto Complete'

**Northing:**
371,271.97

**Easting:**
259,053.55

**Tide (feet):**
5.90



## Hole: A55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:29:29 | 36.09 | 30.19 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:30 | 36.42 | 30.52 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:30 | 36.75 | 30.85 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:31 | 37.07 | 31.17 | 978 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 11:29:31 | 37.40 | 31.50 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:32 | 37.73 | 31.83 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:32 | 38.06 | 32.16 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:32 | 38.39 | 32.49 | 972 | 0.29 | 0.42 | 53.2 |
| 4/17/2015 11:29:33 | 38.71 | 32.81 | 972 | 0.29 | 0.42 | 53.2 |
| 4/17/2015 11:29:33 | 39.04 | 33.14 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:33 | 39.37 | 33.47 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:34 | 39.70 | 33.80 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:29:34 | 40.03 | 34.13 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:29:34 | 40.35 | 34.45 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:29:35 | 40.68 | 34.78 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:29:35 | 41.01 | 35.11 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:29:35 | 41.34 | 35.44 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 11:29:36 | 41.67 | 35.77 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:29:36 | 41.99 | 36.09 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:29:37 | 42.32 | 36.42 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:29:37 | 42.65 | 36.75 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 11:29:37 | 42.98 | 37.08 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:38 | 43.31 | 37.41 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:38 | 43.64 | 37.74 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 11:29:38 | 43.96 | 38.06 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:29:39 | 44.29 | 38.39 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 11:29:39 | 44.62 | 38.72 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 11:29:39 | 44.95 | 39.05 | 972 | 0.29 | 0.42 | 53.2 |
| 4/17/2015 11:29:40 | 45.28 | 39.38 | 972 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:29:40 | 45.60 | 39.70 | 972 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 11:29:40 | 45.93 | 40.03 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:29:41 | 46.26 | 40.36 | 978 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 11:29:41 | 46.59 | 40.69 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 11:29:42 | 46.92 | 41.02 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 11:29:42 | 47.24 | 41.34 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 11:29:43 | 47.57 | 41.67 | 979 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:43 | 47.90 | 42.00 | 979 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:43 | 48.23 | 42.33 | 979 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:29:44 | 48.56 | 42.66 | 979 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 11:29:44 | 48.88 | 42.98 | 979 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 11:29:44 | 49.21 | 43.31 | 993 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 11:29:45 | 49.54 | 43.64 | 984 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:29:45 | 49.87 | 43.97 | 984 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:29:46 | 50.20 | 44.30 | 984 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:29:46 | 50.53 | 44.63 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:29:46 | 50.85 | 44.95 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:29:47 | 51.18 | 45.28 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:29:47 | 51.51 | 45.61 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:29:47 | 51.84 | 45.94 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:29:48 | 52.17 | 46.27 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:29:48 | 52.49 | 46.59 | 968 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 11:30:11 | 52.82 | 46.92 | 49 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 11:30:17 | 53.15 | 47.25 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 11:30:22 | 53.48 | 47.58 | 72 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 11:30:27 | 53.81 | 47.91 | 70 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 11:30:34 | 54.13 | 48.23 | 61 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 11:30:39 | 54.46 | 48.56 | 61 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 11:30:48 | 54.79 | 48.89 | 67 | 0.29 | 0.42 | 3.6 |
| 4/17/2015 11:30:49 | 55.12 | 49.22 | 181 | 0.29 | 0.42 | 9.9 |
| 4/17/2015 11:30:50 | 55.45 | 49.55 | 247 | 0.29 | 0.42 | 13.5 |
| 4/17/2015 11:30:52 | 55.77 | 49.87 | 279 | 0.29 | 0.42 | 15.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:30:53 | 56.10 | 50.20 | 297 | 0.29 | 0.42 | 16.2 |
| 4/17/2015 | 11:30:55 | 56.43 | 50.53 | 276 | 0.29 | 0.42 | 15.1 |
| 4/17/2015 | 11:30:56 | 56.76 | 50.86 | 253 | 0.29 | 0.42 | 13.8 |
| 4/17/2015 | 11:30:57 | 57.09 | 51.19 | 263 | 0.29 | 0.42 | 14.4 |
| 4/17/2015 | 11:30:58 | 57.41 | 51.51 | 286 | 0.29 | 0.42 | 15.7 |
| 4/17/2015 | 11:31:00 | 57.74 | 51.84 | 291 | 0.29 | 0.42 | 15.9 |
| 4/17/2015 | 11:31:01 | 58.07 | 52.17 | 265 | 0.29 | 0.42 | 14.5 |
| 4/17/2015 | 11:31:02 | 58.40 | 52.50 | 253 | 0.29 | 0.42 | 13.8 |
| 4/17/2015 | 11:31:03 | 58.73 | 52.83 | 269 | 0.29 | 0.42 | 14.7 |
| 4/17/2015 | 11:31:09 | 59.06 | 53.16 | 43 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 | 11:31:11 | 59.38 | 53.48 | 178 | 0.29 | 0.42 | 9.7 |
| 4/17/2015 | 11:31:12 | 59.71 | 53.81 | 189 | 0.29 | 0.42 | 10.3 |
| 4/17/2015 | 11:31:14 | 60.04 | 54.14 | 180 | 0.29 | 0.42 | 9.9 |
| 4/17/2015 | 11:31:17 | 60.37 | 54.47 | 160 | 0.29 | 0.42 | 8.7 |
| 4/17/2015 | 11:31:22 | 60.70 | 54.80 | 29 | 0.29 | 0.42 | 1.6 |
| 4/17/2015 | 11:31:23 | 60.80 | 54.90 | 43 | 0.29 | 0.42 | 2.4 |

## A55 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:27:42

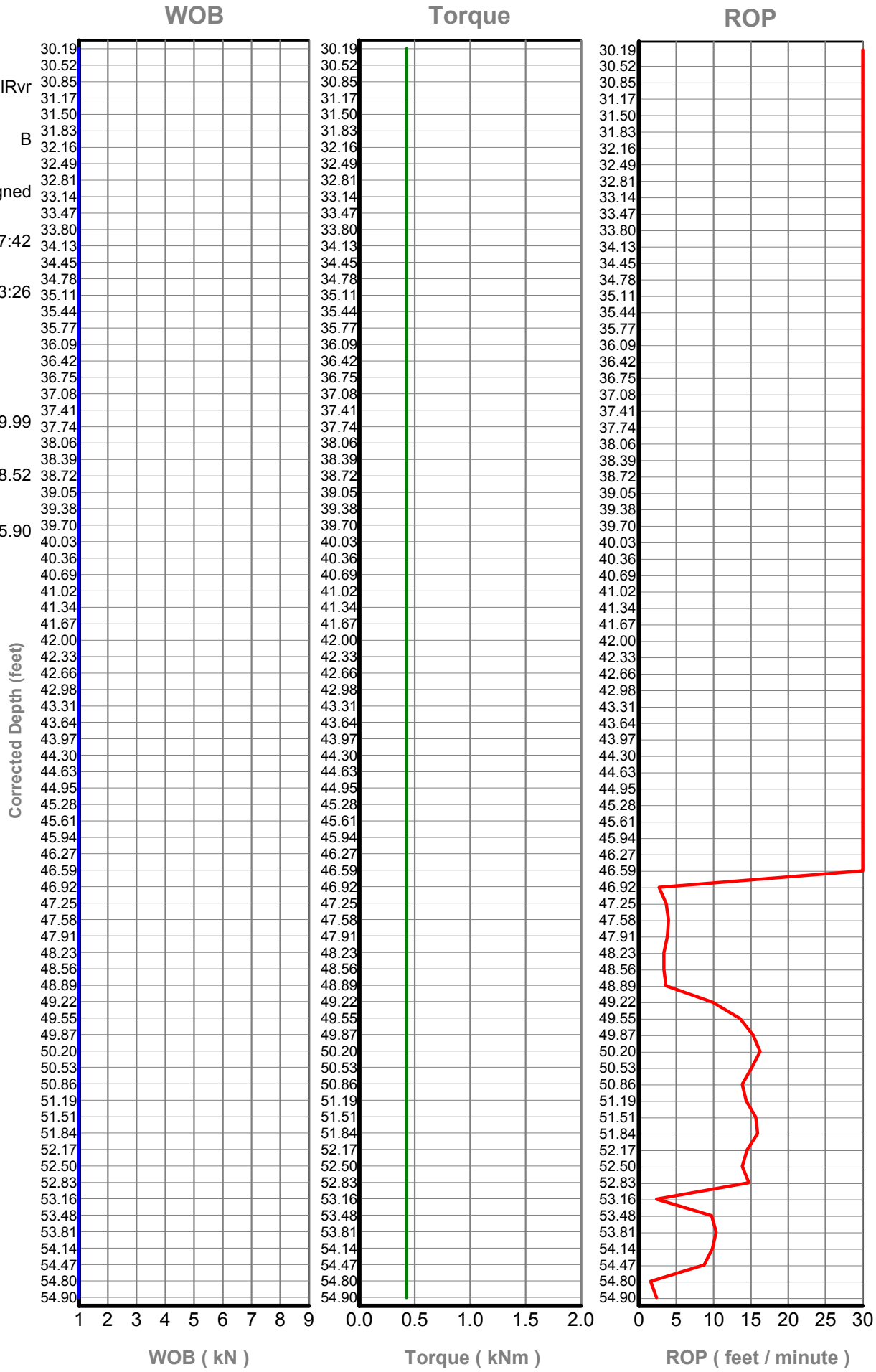
**End Date:**
4/17/2015 11:33:26

**Operator Note:**
'5.9 5.7 b No rock'

**Northing:**
371,269.99

**Easting:**
259,128.52

**Tide (feet):**
5.90



## Hole: A56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:30:49 | 36.09 | 30.19 | 651 | 2.14 | 0.30 | 35.6 |
| 4/17/2015 11:30:49 | 36.42 | 30.52 | 648 | 2.21 | 0.28 | 35.4 |
| 4/17/2015 11:30:50 | 36.75 | 30.85 | 652 | 2.15 | 0.28 | 35.6 |
| 4/17/2015 11:30:50 | 37.07 | 31.17 | 645 | 2.13 | 0.28 | 35.3 |
| 4/17/2015 11:30:51 | 37.40 | 31.50 | 648 | 2.14 | 0.28 | 35.4 |
| 4/17/2015 11:30:51 | 37.73 | 31.83 | 648 | 2.14 | 0.28 | 35.4 |
| 4/17/2015 11:30:52 | 38.06 | 32.16 | 645 | 2.15 | 0.28 | 35.3 |
| 4/17/2015 11:30:52 | 38.39 | 32.49 | 637 | 2.14 | 0.28 | 34.8 |
| 4/17/2015 11:30:53 | 38.71 | 32.81 | 648 | 2.14 | 0.28 | 35.4 |
| 4/17/2015 11:30:53 | 39.04 | 33.14 | 645 | 2.17 | 0.28 | 35.3 |
| 4/17/2015 11:30:54 | 39.37 | 33.47 | 645 | 2.11 | 0.28 | 35.3 |
| 4/17/2015 11:30:55 | 39.70 | 33.80 | 644 | 2.21 | 0.28 | 35.2 |
| 4/17/2015 11:30:55 | 40.03 | 34.13 | 644 | 2.19 | 0.27 | 35.2 |
| 4/17/2015 11:30:56 | 40.35 | 34.45 | 644 | 2.17 | 0.28 | 35.2 |
| 4/17/2015 11:30:57 | 40.68 | 34.78 | 647 | 2.16 | 0.28 | 35.4 |
| 4/17/2015 11:30:57 | 41.01 | 35.11 | 644 | 2.15 | 0.27 | 35.2 |
| 4/17/2015 11:30:58 | 41.34 | 35.44 | 644 | 2.15 | 0.28 | 35.2 |
| 4/17/2015 11:30:58 | 41.67 | 35.77 | 649 | 2.12 | 0.28 | 35.5 |
| 4/17/2015 11:30:59 | 41.99 | 36.09 | 639 | 2.15 | 0.28 | 34.9 |
| 4/17/2015 11:30:59 | 42.32 | 36.42 | 636 | 2.15 | 0.28 | 34.8 |
| 4/17/2015 11:31:00 | 42.65 | 36.75 | 633 | 2.10 | 0.28 | 34.6 |
| 4/17/2015 11:31:00 | 42.98 | 37.08 | 644 | 2.22 | 0.28 | 35.2 |
| 4/17/2015 11:31:01 | 43.31 | 37.41 | 646 | 2.06 | 0.28 | 35.4 |
| 4/17/2015 11:31:01 | 43.64 | 37.74 | 662 | 2.17 | 0.28 | 36.2 |
| 4/17/2015 11:31:02 | 43.96 | 38.06 | 656 | 2.25 | 0.28 | 35.9 |
| 4/17/2015 11:31:02 | 44.29 | 38.39 | 662 | 2.14 | 0.28 | 36.2 |
| 4/17/2015 11:31:03 | 44.62 | 38.72 | 648 | 2.15 | 0.28 | 35.4 |
| 4/17/2015 11:31:03 | 44.95 | 39.05 | 639 | 2.15 | 0.28 | 35.0 |
| 4/17/2015 11:31:05 | 45.28 | 39.38 | 627 | 2.14 | 0.28 | 34.3 |
| 4/17/2015 11:31:05 | 45.60 | 39.70 | 615 | 2.14 | 0.28 | 33.6 |
| 4/17/2015 11:31:06 | 45.93 | 40.03 | 619 | 2.16 | 0.28 | 33.8 |
| 4/17/2015 11:31:06 | 46.26 | 40.36 | 619 | 2.14 | 0.28 | 33.8 |
| 4/17/2015 11:31:07 | 46.59 | 40.69 | 619 | 2.15 | 0.28 | 33.8 |
| 4/17/2015 11:31:07 | 46.92 | 41.02 | 619 | 2.14 | 0.28 | 33.8 |
| 4/17/2015 11:31:08 | 47.24 | 41.34 | 618 | 2.15 | 0.27 | 33.8 |
| 4/17/2015 11:31:08 | 47.57 | 41.67 | 622 | 2.15 | 0.28 | 34.0 |
| 4/17/2015 11:31:09 | 47.90 | 42.00 | 619 | 2.15 | 0.29 | 33.9 |
| 4/17/2015 11:31:10 | 48.23 | 42.33 | 615 | 2.15 | 0.28 | 33.7 |
| 4/17/2015 11:31:10 | 48.56 | 42.66 | 623 | 2.15 | 0.28 | 34.1 |
| 4/17/2015 11:31:11 | 48.88 | 42.98 | 602 | 2.16 | 0.28 | 32.9 |
| 4/17/2015 11:31:11 | 49.21 | 43.31 | 602 | 2.14 | 0.28 | 32.9 |
| 4/17/2015 11:31:12 | 49.54 | 43.64 | 609 | 2.15 | 0.28 | 33.3 |
| 4/17/2015 11:31:12 | 49.87 | 43.97 | 609 | 2.16 | 0.28 | 33.3 |
| 4/17/2015 11:31:13 | 50.20 | 44.30 | 615 | 2.16 | 0.28 | 33.6 |
| 4/17/2015 11:31:42 | 50.53 | 44.63 | 0 | 2.17 | 0.93 | 0.0 |
| 4/17/2015 11:31:43 | 50.85 | 44.95 | 109 | 2.25 | 1.21 | 5.9 |
| 4/17/2015 11:31:45 | 51.18 | 45.28 | 249 | 2.29 | 1.27 | 13.6 |
| 4/17/2015 11:31:51 | 51.51 | 45.61 | 60 | 2.39 | 1.28 | 3.3 |
| 4/17/2015 11:31:55 | 51.84 | 45.94 | 89 | 2.37 | 1.19 | 4.9 |
| 4/17/2015 11:32:00 | 52.17 | 46.27 | 78 | 2.38 | 1.17 | 4.2 |
| 4/17/2015 11:32:05 | 52.49 | 46.59 | 75 | 2.37 | 1.16 | 4.1 |
| 4/17/2015 11:32:09 | 52.82 | 46.92 | 93 | 2.38 | 1.17 | 5.1 |
| 4/17/2015 11:32:13 | 53.15 | 47.25 | 79 | 2.37 | 1.22 | 4.3 |
| 4/17/2015 11:32:18 | 53.48 | 47.58 | 86 | 2.37 | 1.27 | 4.7 |
| 4/17/2015 11:32:22 | 53.81 | 47.91 | 89 | 2.40 | 1.18 | 4.9 |
| 4/17/2015 11:32:26 | 54.13 | 48.23 | 81 | 2.38 | 1.26 | 4.4 |
| 4/17/2015 11:32:30 | 54.46 | 48.56 | 84 | 2.38 | 1.18 | 4.6 |
| 4/17/2015 11:32:34 | 54.79 | 48.89 | 87 | 2.37 | 1.21 | 4.7 |
| 4/17/2015 11:32:37 | 55.04 | 49.14 | 86 | 2.36 | 1.23 | 4.7 |

## A56 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:29:08

**End Date:**
4/17/2015 11:34:24

**Operator Note:**
'5.9 5.8 c Auto Complete'

**Northing:**
371,268.00

**Easting:**
259,203.50

**Tide (feet):**
5.90



## Hole: A57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:46:52 | 34.45 | 30.25 | 1,188 | 0.54 | 0.34 | 65.0 |
| 4/17/2015 9:46:52 | 34.78 | 30.58 | 1,176 | 0.54 | 0.34 | 64.3 |
| 4/17/2015 9:46:52 | 35.11 | 30.91 | 1,169 | 0.54 | 0.34 | 63.9 |
| 4/17/2015 9:46:53 | 35.43 | 31.23 | 1,169 | 0.54 | 0.34 | 63.9 |
| 4/17/2015 9:46:53 | 35.76 | 31.56 | 1,159 | 0.54 | 0.34 | 63.4 |
| 4/17/2015 9:46:53 | 36.09 | 31.89 | 1,159 | 0.54 | 0.34 | 63.4 |
| 4/17/2015 9:46:53 | 36.42 | 32.22 | 1,159 | 0.54 | 0.42 | 63.4 |
| 4/17/2015 9:46:54 | 36.75 | 32.55 | 1,159 | 0.54 | 0.42 | 63.4 |
| 4/17/2015 9:46:54 | 37.07 | 32.87 | 1,171 | 0.53 | 0.34 | 64.0 |
| 4/17/2015 9:46:55 | 37.40 | 33.20 | 1,178 | 0.54 | 0.34 | 64.4 |
| 4/17/2015 9:46:55 | 37.73 | 33.53 | 1,178 | 0.54 | 0.34 | 64.4 |
| 4/17/2015 9:46:55 | 38.06 | 33.86 | 1,165 | 0.54 | 0.34 | 63.7 |
| 4/17/2015 9:46:56 | 38.39 | 34.19 | 1,165 | 0.54 | 0.34 | 63.7 |
| 4/17/2015 9:46:56 | 38.71 | 34.51 | 1,189 | 0.54 | 0.34 | 65.0 |
| 4/17/2015 9:46:56 | 39.04 | 34.84 | 1,189 | 0.54 | 0.34 | 65.0 |
| 4/17/2015 9:46:56 | 39.37 | 35.17 | 1,173 | 0.54 | 0.34 | 64.2 |
| 4/17/2015 9:46:57 | 39.70 | 35.50 | 1,173 | 0.54 | 0.34 | 64.2 |
| 4/17/2015 9:46:57 | 40.03 | 35.83 | 1,173 | 0.54 | 0.34 | 64.2 |
| 4/17/2015 9:46:57 | 40.35 | 36.15 | 1,171 | 0.54 | 0.35 | 64.0 |
| 4/17/2015 9:46:58 | 40.68 | 36.48 | 1,171 | 0.54 | 0.35 | 64.0 |
| 4/17/2015 9:46:58 | 41.01 | 36.81 | 1,165 | 0.54 | 0.34 | 63.7 |
| 4/17/2015 9:46:58 | 41.34 | 37.14 | 1,175 | 0.55 | 0.34 | 64.3 |
| 4/17/2015 9:46:59 | 41.67 | 37.47 | 1,175 | 0.55 | 0.34 | 64.3 |
| 4/17/2015 9:46:59 | 41.99 | 37.79 | 1,147 | 0.54 | 0.35 | 62.7 |
| 4/17/2015 9:46:59 | 42.32 | 38.12 | 1,147 | 0.54 | 0.35 | 62.7 |
| 4/17/2015 9:46:59 | 42.65 | 38.45 | 1,147 | 0.52 | 0.34 | 62.7 |
| 4/17/2015 9:47:00 | 42.98 | 38.78 | 1,147 | 0.52 | 0.34 | 62.7 |
| 4/17/2015 9:47:00 | 43.31 | 39.11 | 1,179 | 0.53 | 0.34 | 64.5 |
| 4/17/2015 9:47:00 | 43.64 | 39.44 | 1,173 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 9:47:01 | 43.96 | 39.76 | 1,173 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 9:47:01 | 44.29 | 40.09 | 1,155 | 0.54 | 0.34 | 63.2 |
| 4/17/2015 9:47:01 | 44.62 | 40.42 | 1,155 | 0.54 | 0.34 | 63.2 |
| 4/17/2015 9:47:01 | 44.95 | 40.75 | 1,161 | 0.53 | 0.33 | 63.5 |
| 4/17/2015 9:47:02 | 45.28 | 41.08 | 1,170 | 0.54 | 0.34 | 64.0 |
| 4/17/2015 9:47:02 | 45.60 | 41.40 | 1,170 | 0.54 | 0.34 | 64.0 |
| 4/17/2015 9:47:02 | 45.93 | 41.73 | 1,155 | 0.53 | 0.35 | 63.2 |
| 4/17/2015 9:47:03 | 46.26 | 42.06 | 1,155 | 0.53 | 0.35 | 63.2 |
| 4/17/2015 9:47:03 | 46.59 | 42.39 | 1,142 | 0.53 | 0.34 | 62.4 |
| 4/17/2015 9:47:03 | 46.92 | 42.72 | 1,142 | 0.53 | 0.34 | 62.4 |
| 4/17/2015 9:47:03 | 47.24 | 43.04 | 1,142 | 0.52 | 0.33 | 62.4 |
| 4/17/2015 9:47:04 | 47.57 | 43.37 | 1,162 | 0.53 | 0.34 | 63.5 |
| 4/17/2015 9:47:04 | 47.90 | 43.70 | 1,162 | 0.53 | 0.34 | 63.5 |
| 4/17/2015 9:47:04 | 48.23 | 44.03 | 1,162 | 0.54 | 0.34 | 63.5 |
| 4/17/2015 9:47:05 | 48.56 | 44.36 | 1,162 | 0.54 | 0.34 | 63.5 |
| 4/17/2015 9:47:05 | 48.88 | 44.68 | 1,179 | 0.53 | 0.35 | 64.5 |
| 4/17/2015 9:47:06 | 49.21 | 45.01 | 1,171 | 0.55 | 0.37 | 64.0 |
| 4/17/2015 9:47:06 | 49.54 | 45.34 | 1,171 | 0.55 | 0.37 | 64.0 |
| 4/17/2015 9:47:24 | 49.87 | 45.67 | 9 | 4.72 | 0.53 | 0.5 |
| 4/17/2015 9:47:36 | 50.20 | 46.00 | 3 | 3.83 | 0.40 | 0.2 |
| 4/17/2015 9:47:39 | 50.53 | 46.33 | 135 | 3.66 | 0.48 | 7.4 |
| 4/17/2015 9:47:41 | 50.85 | 46.65 | 140 | 3.96 | 0.41 | 7.6 |
| 4/17/2015 9:47:42 | 51.18 | 46.98 | 218 | 3.81 | 0.39 | 11.9 |
| 4/17/2015 9:47:43 | 51.51 | 47.31 | 245 | 4.07 | 0.46 | 13.4 |
| 4/17/2015 9:47:47 | 51.84 | 47.64 | 75 | 4.21 | 0.45 | 4.1 |
| 4/17/2015 9:47:51 | 52.17 | 47.97 | 79 | 3.92 | 0.43 | 4.3 |
| 4/17/2015 9:47:55 | 52.49 | 48.29 | 93 | 3.64 | 0.46 | 5.1 |
| 4/17/2015 9:48:03 | 52.82 | 48.62 | 52 | 4.11 | 0.45 | 2.8 |
| 4/17/2015 9:48:12 | 53.15 | 48.95 | 43 | 3.50 | 0.44 | 2.4 |
| 4/17/2015 9:48:20 | 53.48 | 49.28 | 40 | 3.62 | 0.44 | 2.2 |
| 4/17/2015 9:48:22 | 53.60 | 49.40 | 46 | 3.74 | 0.45 | 2.5 |

## A57 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 9:45:43

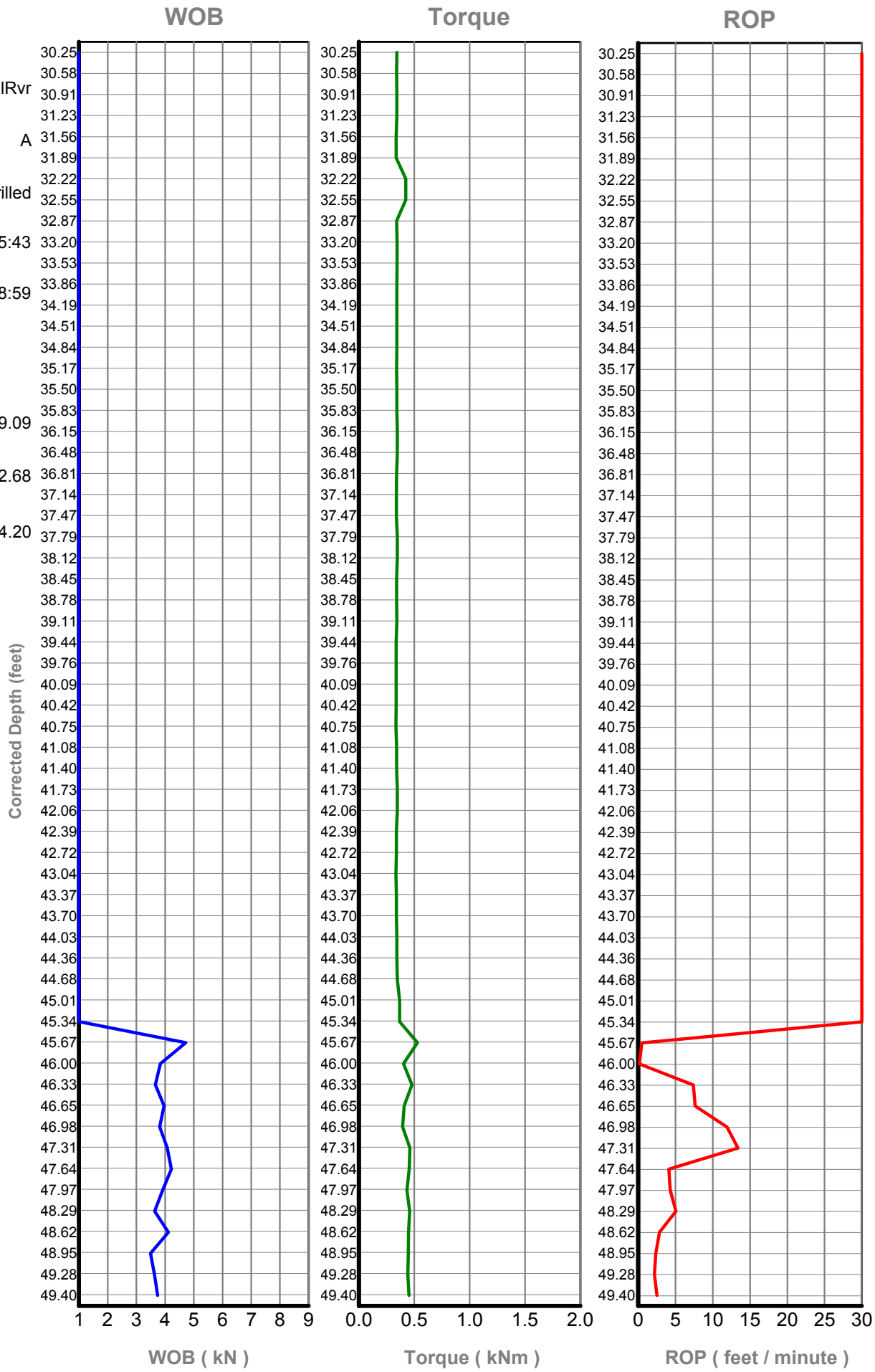
**End Date:**
4/17/2015 9:48:59

**Operator Note:**
'4.2 Auto Complete'

**Northing:**
371,259.09

**Easting:**
259,272.68

**Tide (feet):**
4.20



## Hole: A58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:42:31 | 34.12 | 30.12 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 9:42:32 | 34.45 | 30.45 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:33 | 34.78 | 30.78 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:33 | 35.11 | 31.11 | 950 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:33 | 35.43 | 31.43 | 950 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:34 | 35.76 | 31.76 | 950 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:34 | 36.09 | 32.09 | 957 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 9:42:34 | 36.42 | 32.42 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 9:42:35 | 36.75 | 32.75 | 982 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 9:42:35 | 37.07 | 33.07 | 982 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 9:42:35 | 37.40 | 33.40 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 9:42:36 | 37.73 | 33.73 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:36 | 38.06 | 34.06 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:36 | 38.39 | 34.39 | 975 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:37 | 38.71 | 34.71 | 978 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 9:42:37 | 39.04 | 35.04 | 978 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 9:42:37 | 39.37 | 35.37 | 975 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:38 | 39.70 | 35.70 | 978 | 0.29 | 0.42 | 53.5 |
| 4/17/2015 9:42:38 | 40.03 | 36.03 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 9:42:39 | 40.35 | 36.35 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 9:42:39 | 40.68 | 36.68 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:39 | 41.01 | 37.01 | 966 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 9:42:40 | 41.34 | 37.34 | 966 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 9:42:40 | 41.67 | 37.67 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 9:42:40 | 41.99 | 37.99 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:41 | 42.32 | 38.32 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:41 | 42.65 | 38.65 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 9:42:41 | 42.98 | 38.98 | 955 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 9:42:42 | 43.31 | 39.31 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 9:42:42 | 43.64 | 39.64 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 9:42:42 | 43.96 | 39.96 | 964 | 0.29 | 0.42 | 52.7 |
| 4/17/2015 9:42:43 | 44.29 | 40.29 | 976 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 9:42:44 | 44.62 | 40.62 | 992 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 9:42:44 | 44.95 | 40.95 | 992 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 9:42:44 | 45.28 | 41.28 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 9:42:45 | 45.60 | 41.60 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:45 | 45.93 | 41.93 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:45 | 46.26 | 42.26 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 9:42:46 | 46.59 | 42.59 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:46 | 46.92 | 42.92 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:46 | 47.24 | 43.24 | 968 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 9:42:47 | 47.57 | 43.57 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:47 | 47.90 | 43.90 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 9:42:48 | 48.23 | 44.23 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 9:42:48 | 48.56 | 44.56 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 9:42:48 | 48.88 | 44.88 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:49 | 49.21 | 45.21 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:42:49 | 49.54 | 45.54 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 9:42:49 | 49.87 | 45.87 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 9:43:16 | 50.20 | 46.20 | 66 | 0.29 | 0.42 | 3.6 |
| 4/17/2015 9:43:22 | 50.53 | 46.53 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 9:43:28 | 50.85 | 46.85 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 9:43:35 | 51.18 | 47.18 | 55 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 9:43:40 | 51.51 | 47.51 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 9:43:42 | 51.64 | 47.64 | 70 | 0.29 | 0.42 | 3.8 |

## A58 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:40:11

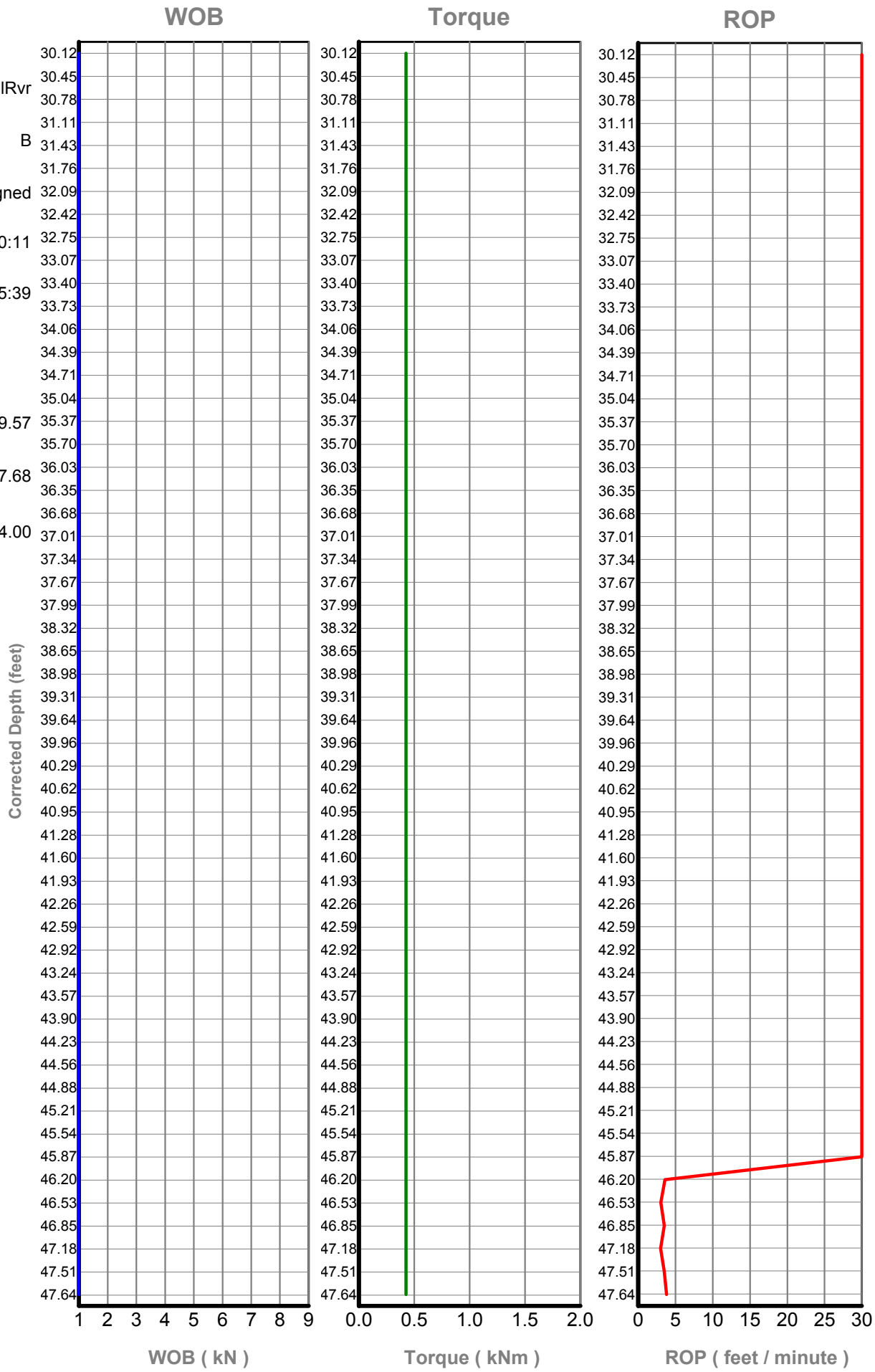
**End Date:**
4/17/2015 9:45:39

**Operator Note:**
'4 3.1 b Rock @ 50.5"

**Northing:**
371,259.57

**Easting:**
259,347.68

**Tide (feet):**
4.00



## Hole: A59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:48:06 | 34.45 | 30.25 | 641 | 2.14 | 0.30 | 35.0 |
| 4/17/2015 9:48:06 | 34.78 | 30.58 | 632 | 2.13 | 0.30 | 34.6 |
| 4/17/2015 9:48:07 | 35.11 | 30.91 | 637 | 2.14 | 0.30 | 34.8 |
| 4/17/2015 9:48:07 | 35.43 | 31.23 | 633 | 2.12 | 0.30 | 34.6 |
| 4/17/2015 9:48:08 | 35.76 | 31.56 | 637 | 2.14 | 0.30 | 34.8 |
| 4/17/2015 9:48:08 | 36.09 | 31.89 | 627 | 2.12 | 0.30 | 34.3 |
| 4/17/2015 9:48:09 | 36.42 | 32.22 | 630 | 2.12 | 0.30 | 34.5 |
| 4/17/2015 9:48:09 | 36.75 | 32.55 | 633 | 2.12 | 0.30 | 34.6 |
| 4/17/2015 9:48:10 | 37.07 | 32.87 | 633 | 2.13 | 0.30 | 34.6 |
| 4/17/2015 9:48:11 | 37.40 | 33.20 | 627 | 2.12 | 0.30 | 34.3 |
| 4/17/2015 9:48:11 | 37.73 | 33.53 | 632 | 2.14 | 0.29 | 34.6 |
| 4/17/2015 9:48:12 | 38.06 | 33.86 | 633 | 2.14 | 0.30 | 34.6 |
| 4/17/2015 9:48:13 | 38.39 | 34.19 | 630 | 2.14 | 0.30 | 34.5 |
| 4/17/2015 9:48:13 | 38.71 | 34.51 | 636 | 2.14 | 0.29 | 34.8 |
| 4/17/2015 9:48:14 | 39.04 | 34.84 | 638 | 2.13 | 0.30 | 34.9 |
| 4/17/2015 9:48:14 | 39.37 | 35.17 | 633 | 2.13 | 0.29 | 34.6 |
| 4/17/2015 9:48:15 | 39.70 | 35.50 | 629 | 2.13 | 0.29 | 34.4 |
| 4/17/2015 9:48:15 | 40.03 | 35.83 | 636 | 2.14 | 0.29 | 34.8 |
| 4/17/2015 9:48:16 | 40.35 | 36.15 | 630 | 2.12 | 0.29 | 34.5 |
| 4/17/2015 9:48:16 | 40.68 | 36.48 | 633 | 2.13 | 0.29 | 34.6 |
| 4/17/2015 9:48:17 | 41.01 | 36.81 | 633 | 2.14 | 0.30 | 34.6 |
| 4/17/2015 9:48:17 | 41.34 | 37.14 | 633 | 2.13 | 0.29 | 34.6 |
| 4/17/2015 9:48:18 | 41.67 | 37.47 | 630 | 2.12 | 0.29 | 34.5 |
| 4/17/2015 9:48:18 | 41.99 | 37.79 | 633 | 2.14 | 0.29 | 34.6 |
| 4/17/2015 9:48:19 | 42.32 | 38.12 | 630 | 2.13 | 0.30 | 34.5 |
| 4/17/2015 9:48:20 | 42.65 | 38.45 | 630 | 2.13 | 0.29 | 34.5 |
| 4/17/2015 9:48:21 | 42.98 | 38.78 | 630 | 2.12 | 0.29 | 34.5 |
| 4/17/2015 9:48:21 | 43.31 | 39.11 | 630 | 2.14 | 0.29 | 34.5 |
| 4/17/2015 9:48:22 | 43.64 | 39.44 | 633 | 2.14 | 0.29 | 34.6 |
| 4/17/2015 9:48:22 | 43.96 | 39.76 | 630 | 2.12 | 0.29 | 34.5 |
| 4/17/2015 9:48:23 | 44.29 | 40.09 | 630 | 2.12 | 0.29 | 34.5 |
| 4/17/2015 9:48:23 | 44.62 | 40.42 | 626 | 2.13 | 0.29 | 34.3 |
| 4/17/2015 9:48:24 | 44.95 | 40.75 | 630 | 2.14 | 0.29 | 34.5 |
| 4/17/2015 9:48:24 | 45.28 | 41.08 | 627 | 2.14 | 0.29 | 34.3 |
| 4/17/2015 9:48:25 | 45.60 | 41.40 | 627 | 2.13 | 0.29 | 34.3 |
| 4/17/2015 9:48:26 | 45.93 | 41.73 | 634 | 2.12 | 0.29 | 34.7 |
| 4/17/2015 9:48:26 | 46.26 | 42.06 | 627 | 2.13 | 0.29 | 34.3 |
| 4/17/2015 9:48:27 | 46.59 | 42.39 | 631 | 2.14 | 0.29 | 34.5 |
| 4/17/2015 9:48:27 | 46.92 | 42.72 | 630 | 2.14 | 0.29 | 34.5 |
| 4/17/2015 9:48:28 | 47.24 | 43.04 | 630 | 2.14 | 0.29 | 34.5 |
| 4/17/2015 9:48:28 | 47.57 | 43.37 | 627 | 2.14 | 0.29 | 34.3 |
| 4/17/2015 9:48:29 | 47.90 | 43.70 | 627 | 2.14 | 0.29 | 34.3 |
| 4/17/2015 9:48:29 | 48.23 | 44.03 | 623 | 2.14 | 0.29 | 34.1 |
| 4/17/2015 9:48:30 | 48.56 | 44.36 | 627 | 2.13 | 0.29 | 34.3 |
| 4/17/2015 9:48:30 | 48.88 | 44.68 | 624 | 2.14 | 0.28 | 34.1 |
| 4/17/2015 9:48:31 | 49.21 | 45.01 | 624 | 2.14 | 0.29 | 34.1 |
| 4/17/2015 9:48:32 | 49.54 | 45.34 | 630 | 2.13 | 0.29 | 34.5 |
| 4/17/2015 9:48:33 | 49.87 | 45.67 | 627 | 2.14 | 0.29 | 34.3 |
| 4/17/2015 9:48:33 | 50.20 | 46.00 | 627 | 2.13 | 0.29 | 34.3 |
| 4/17/2015 9:48:34 | 50.53 | 46.33 | 624 | 2.13 | 0.29 | 34.1 |
| 4/17/2015 9:48:34 | 50.85 | 46.65 | 627 | 2.16 | 0.29 | 34.3 |
| 4/17/2015 9:49:01 | 51.18 | 46.98 | 0 | 2.25 | 1.16 | 0.0 |
| 4/17/2015 9:49:04 | 51.51 | 47.31 | 108 | 2.27 | 1.14 | 5.9 |
| 4/17/2015 9:49:06 | 51.84 | 47.64 | 172 | 2.27 | 1.17 | 9.4 |
| 4/17/2015 9:49:09 | 52.17 | 47.97 | 110 | 2.27 | 1.20 | 6.0 |
| 4/17/2015 9:49:12 | 52.49 | 48.29 | 125 | 2.29 | 1.18 | 6.8 |
| 4/17/2015 9:49:16 | 52.82 | 48.62 | 95 | 2.28 | 1.19 | 5.2 |
| 4/17/2015 9:49:19 | 53.15 | 48.95 | 90 | 2.31 | 1.19 | 4.9 |
| 4/17/2015 9:49:24 | 53.48 | 49.28 | 86 | 2.29 | 1.21 | 4.7 |
| 4/17/2015 9:49:28 | 53.81 | 49.61 | 87 | 2.29 | 1.20 | 4.8 |
| 4/17/2015 9:49:31 | 54.13 | 49.93 | 101 | 2.27 | 1.16 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:49:36 | 54.46 | 50.26 | 92 | 2.28 | 1.16 | 5.1 |
| 4/17/2015 | 9:49:40 | 54.79 | 50.59 | 72 | 2.30 | 1.18 | 3.9 |
| 4/17/2015 | 9:49:47 | 55.12 | 50.92 | 0 | 2.31 | 1.08 | 0.0 |
| 4/17/2015 | 9:49:50 | 55.45 | 51.25 | 108 | 2.34 | 1.12 | 5.9 |
| 4/17/2015 | 9:49:54 | 55.77 | 51.57 | 101 | 2.38 | 1.20 | 5.5 |
| 4/17/2015 | 9:49:58 | 56.10 | 51.90 | 104 | 2.36 | 1.13 | 5.7 |
| 4/17/2015 | 9:50:01 | 56.43 | 52.23 | 96 | 2.36 | 1.15 | 5.2 |
| 4/17/2015 | 9:50:05 | 56.76 | 52.56 | 113 | 2.36 | 1.17 | 6.2 |
| 4/17/2015 | 9:50:09 | 57.09 | 52.89 | 101 | 2.38 | 1.16 | 5.5 |
| 4/17/2015 | 9:50:12 | 57.41 | 53.21 | 107 | 2.38 | 1.17 | 5.9 |
| 4/17/2015 | 9:50:15 | 57.74 | 53.54 | 107 | 2.38 | 1.18 | 5.8 |
| 4/17/2015 | 9:50:19 | 58.07 | 53.87 | 106 | 2.33 | 1.18 | 5.8 |
| 4/17/2015 | 9:50:19 | 58.10 | 53.90 | 95 | 2.29 | 1.14 | 5.2 |

## A59 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 9:46:36

**End Date:**
4/17/2015 9:55:23

**Operator Note:**
'4.2 3.1 c Auto Complete'

**Northing:**
371,260.06

**Easting:**
259,422.67

**Tide (feet):**
4.20



## Hole: A6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 16:01:49 | 32.15 | 30.05 | 919 | 2.62 | 0.13 | 50.3 |
| 4/16/2015 16:01:50 | 32.48 | 30.38 | 912 | 2.60 | 0.13 | 49.9 |
| 4/16/2015 16:01:50 | 32.81 | 30.71 | 927 | 2.61 | 0.13 | 50.7 |
| 4/16/2015 16:01:51 | 33.14 | 31.04 | 927 | 2.61 | 0.13 | 50.7 |
| 4/16/2015 16:01:51 | 33.46 | 31.36 | 924 | 2.61 | 0.13 | 50.5 |
| 4/16/2015 16:01:51 | 33.79 | 31.69 | 915 | 2.73 | 0.13 | 50.0 |
| 4/16/2015 16:02:10 | 34.12 | 32.02 | 0 | 2.69 | 1.18 | 0.0 |
| 4/16/2015 16:02:11 | 34.45 | 32.35 | 194 | 2.84 | 1.26 | 10.6 |
| 4/16/2015 16:02:18 | 34.78 | 32.68 | 3 | 2.72 | 1.12 | 0.2 |
| 4/16/2015 16:02:20 | 35.11 | 33.01 | 145 | 2.80 | 1.22 | 7.9 |
| 4/16/2015 16:02:21 | 35.43 | 33.33 | 284 | 2.88 | 1.24 | 15.5 |
| 4/16/2015 16:02:22 | 35.76 | 33.66 | 274 | 2.86 | 1.24 | 15.0 |
| 4/16/2015 16:02:24 | 36.09 | 33.99 | 214 | 2.89 | 1.52 | 11.7 |
| 4/16/2015 16:02:27 | 36.42 | 34.32 | 138 | 2.82 | 1.18 | 7.6 |
| 4/16/2015 16:02:27 | 36.75 | 34.65 | 174 | 2.82 | 1.26 | 9.5 |
| 4/16/2015 16:02:29 | 37.07 | 34.97 | 333 | 2.81 | 1.41 | 18.2 |
| 4/16/2015 16:02:30 | 37.40 | 35.30 | 331 | 2.81 | 1.29 | 18.1 |
| 4/16/2015 16:02:30 | 37.73 | 35.63 | 347 | 2.81 | 1.31 | 19.0 |
| 4/16/2015 16:02:31 | 38.06 | 35.96 | 374 | 2.80 | 1.20 | 20.5 |
| 4/16/2015 16:02:32 | 38.39 | 36.29 | 374 | 2.80 | 1.16 | 20.5 |
| 4/16/2015 16:02:33 | 38.71 | 36.61 | 416 | 2.80 | 1.14 | 22.8 |
| 4/16/2015 16:02:34 | 39.04 | 36.94 | 411 | 2.86 | 1.35 | 22.5 |
| 4/16/2015 16:02:36 | 39.37 | 37.27 | 309 | 2.82 | 1.25 | 16.9 |
| 4/16/2015 16:02:41 | 39.70 | 37.60 | 0 | 2.82 | 1.38 | 0.0 |
| 4/16/2015 16:02:51 | 40.03 | 37.93 | 54 | 2.86 | 1.38 | 2.9 |
| 4/16/2015 16:02:55 | 40.35 | 38.25 | 88 | 2.90 | 1.36 | 4.8 |
| 4/16/2015 16:03:05 | 40.68 | 38.58 | 72 | 2.92 | 1.52 | 4.0 |
| 4/16/2015 16:03:19 | 41.01 | 38.91 | 78 | 2.88 | 1.28 | 4.3 |
| 4/16/2015 16:03:25 | 41.34 | 39.24 | 61 | 2.93 | 1.22 | 3.3 |
| 4/16/2015 16:03:29 | 41.67 | 39.57 | 86 | 2.89 | 1.44 | 4.7 |
| 4/16/2015 16:03:32 | 41.99 | 39.89 | 111 | 2.88 | 1.39 | 6.0 |
| 4/16/2015 16:03:39 | 42.32 | 40.22 | 46 | 2.92 | 1.48 | 2.5 |
| 4/16/2015 16:03:44 | 42.53 | 40.43 | 35 | 2.90 | 1.25 | 1.9 |

## A6 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 16:00:49

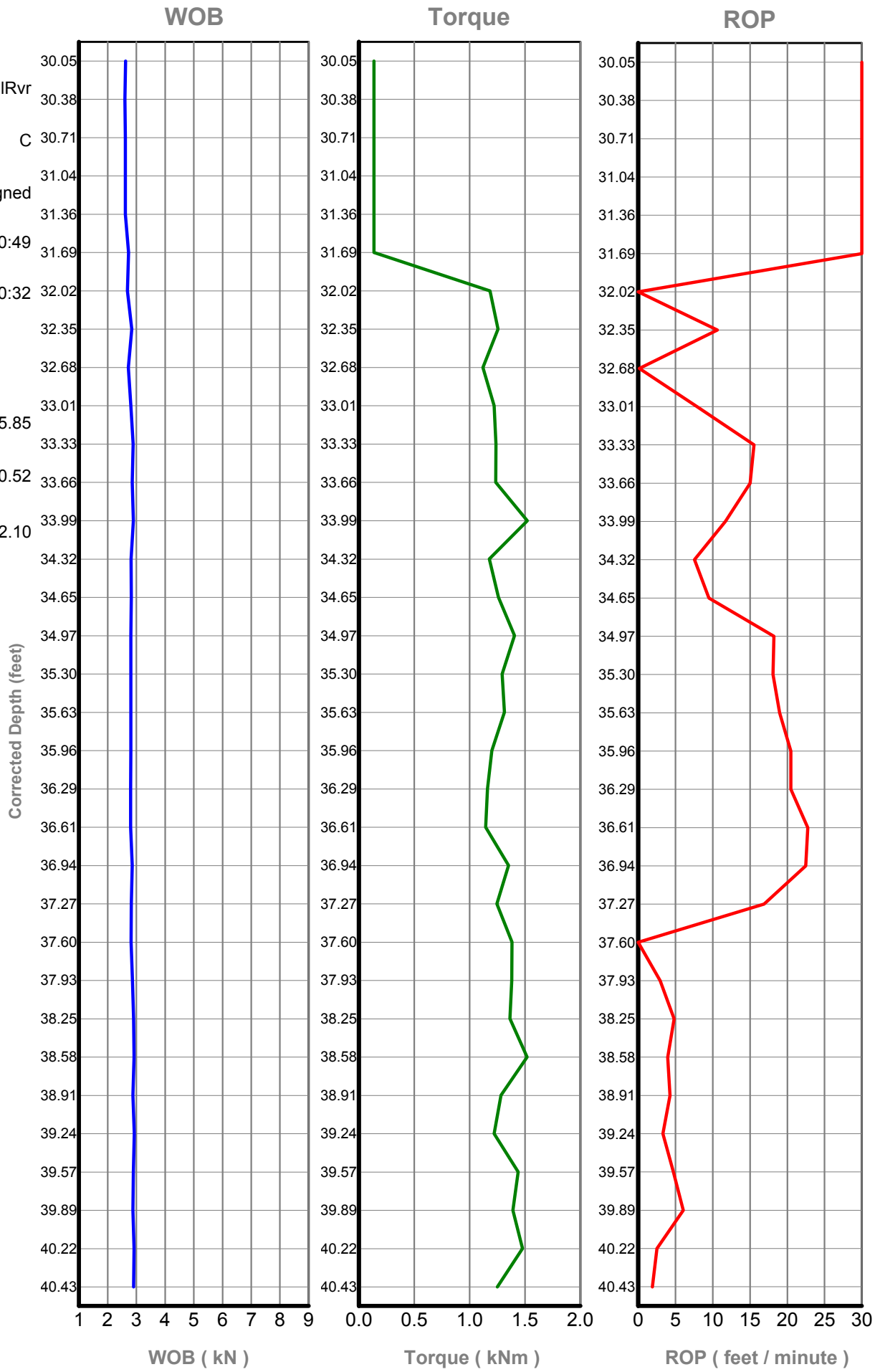
**End Date:**
4/16/2015 16:10:32

**Operator Note:**
'2.1 Auto Complete'

**Northing:**
371,615.85

**Easting:**
259,890.52

**Tide (feet):**
2.10



## Hole: A60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:37:14 | 32.15 | 30.05 | 1,175 | 0.56 | 0.36 | 64.3 |
| 4/17/2015 4:37:14 | 32.48 | 30.38 | 1,182 | 0.57 | 0.35 | 64.7 |
| 4/17/2015 4:37:15 | 32.81 | 30.71 | 1,182 | 0.57 | 0.35 | 64.7 |
| 4/17/2015 4:37:15 | 33.14 | 31.04 | 1,185 | 0.56 | 0.35 | 64.8 |
| 4/17/2015 4:37:16 | 33.46 | 31.36 | 1,196 | 0.54 | 0.36 | 65.4 |
| 4/17/2015 4:37:16 | 33.79 | 31.69 | 1,196 | 0.54 | 0.36 | 65.4 |
| 4/17/2015 4:37:16 | 34.12 | 32.02 | 1,178 | 0.57 | 0.36 | 64.4 |
| 4/17/2015 4:37:17 | 34.45 | 32.35 | 1,178 | 0.57 | 0.36 | 64.4 |
| 4/17/2015 4:37:17 | 34.78 | 32.68 | 1,174 | 0.57 | 0.35 | 64.2 |
| 4/17/2015 4:37:17 | 35.11 | 33.01 | 1,174 | 0.57 | 0.35 | 64.2 |
| 4/17/2015 4:37:17 | 35.43 | 33.33 | 1,182 | 0.57 | 0.36 | 64.6 |
| 4/17/2015 4:37:18 | 35.76 | 33.66 | 1,186 | 0.56 | 0.35 | 64.9 |
| 4/17/2015 4:37:18 | 36.09 | 33.99 | 1,186 | 0.56 | 0.35 | 64.9 |
| 4/17/2015 4:37:18 | 36.42 | 34.32 | 1,186 | 0.57 | 0.36 | 64.9 |
| 4/17/2015 4:37:19 | 36.75 | 34.65 | 1,186 | 0.57 | 0.36 | 64.9 |
| 4/17/2015 4:37:19 | 37.07 | 34.97 | 1,199 | 0.56 | 0.35 | 65.5 |
| 4/17/2015 4:37:19 | 37.40 | 35.30 | 1,203 | 0.57 | 0.35 | 65.8 |
| 4/17/2015 4:37:20 | 37.73 | 35.63 | 1,203 | 0.57 | 0.35 | 65.8 |
| 4/17/2015 4:37:20 | 38.06 | 35.96 | 1,195 | 0.56 | 0.36 | 65.3 |
| 4/17/2015 4:37:20 | 38.39 | 36.29 | 1,195 | 0.56 | 0.36 | 65.3 |
| 4/17/2015 4:37:20 | 38.71 | 36.61 | 1,184 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:21 | 39.04 | 36.94 | 1,184 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:21 | 39.37 | 37.27 | 1,194 | 0.56 | 0.35 | 65.3 |
| 4/17/2015 4:37:21 | 39.70 | 37.60 | 1,194 | 0.56 | 0.35 | 65.3 |
| 4/17/2015 4:37:22 | 40.03 | 37.93 | 1,194 | 0.56 | 0.35 | 65.3 |
| 4/17/2015 4:37:22 | 40.35 | 38.25 | 1,191 | 0.56 | 0.35 | 65.1 |
| 4/17/2015 4:37:22 | 40.68 | 38.58 | 1,191 | 0.56 | 0.35 | 65.1 |
| 4/17/2015 4:37:22 | 41.01 | 38.91 | 1,185 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:23 | 41.34 | 39.24 | 1,185 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:23 | 41.67 | 39.57 | 1,198 | 0.56 | 0.36 | 65.5 |
| 4/17/2015 4:37:23 | 41.99 | 39.89 | 1,188 | 0.57 | 0.35 | 65.0 |
| 4/17/2015 4:37:24 | 42.32 | 40.22 | 1,188 | 0.57 | 0.35 | 65.0 |
| 4/17/2015 4:37:24 | 42.65 | 40.55 | 1,182 | 0.58 | 0.35 | 64.7 |
| 4/17/2015 4:37:24 | 42.98 | 40.88 | 1,182 | 0.58 | 0.35 | 64.7 |
| 4/17/2015 4:37:24 | 43.31 | 41.21 | 1,185 | 0.56 | 0.37 | 64.8 |
| 4/17/2015 4:37:25 | 43.64 | 41.54 | 1,185 | 0.56 | 0.37 | 64.8 |
| 4/17/2015 4:37:25 | 43.96 | 41.86 | 1,188 | 0.56 | 0.35 | 65.0 |
| 4/17/2015 4:37:25 | 44.29 | 42.19 | 1,185 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:26 | 44.62 | 42.52 | 1,185 | 0.57 | 0.35 | 64.8 |
| 4/17/2015 4:37:26 | 44.95 | 42.85 | 1,182 | 0.58 | 0.35 | 64.6 |
| 4/17/2015 4:37:27 | 45.28 | 43.18 | 1,182 | 0.58 | 0.35 | 64.6 |
| 4/17/2015 4:37:27 | 45.60 | 43.50 | 1,178 | 0.56 | 0.36 | 64.4 |
| 4/17/2015 4:37:27 | 45.93 | 43.83 | 1,185 | 0.57 | 0.36 | 64.8 |
| 4/17/2015 4:37:28 | 46.26 | 44.16 | 1,185 | 0.57 | 0.36 | 64.8 |
| 4/17/2015 4:37:28 | 46.59 | 44.49 | 1,173 | 0.56 | 0.35 | 64.1 |
| 4/17/2015 4:37:28 | 46.92 | 44.82 | 1,173 | 0.56 | 0.35 | 64.1 |
| 4/17/2015 4:37:28 | 47.24 | 45.14 | 1,177 | 0.56 | 0.35 | 64.4 |
| 4/17/2015 4:37:29 | 47.57 | 45.47 | 1,177 | 0.56 | 0.35 | 64.4 |
| 4/17/2015 4:37:29 | 47.90 | 45.80 | 1,177 | 0.56 | 0.35 | 64.4 |
| 4/17/2015 4:37:29 | 48.23 | 46.13 | 1,180 | 0.55 | 0.37 | 64.5 |
| 4/17/2015 4:37:30 | 48.56 | 46.46 | 1,180 | 0.55 | 0.37 | 64.5 |
| 4/17/2015 4:38:03 | 48.88 | 46.78 | 0 | 4.70 | 0.49 | 0.0 |
| 4/17/2015 4:38:05 | 49.21 | 47.11 | 139 | 4.44 | 0.44 | 7.6 |
| 4/17/2015 4:38:06 | 49.54 | 47.44 | 170 | 4.85 | 0.44 | 9.3 |
| 4/17/2015 4:38:06 | 49.87 | 47.77 | 259 | 4.51 | 0.44 | 14.1 |
| 4/17/2015 4:38:07 | 50.20 | 48.10 | 392 | 4.02 | 0.45 | 21.4 |
| 4/17/2015 4:38:08 | 50.53 | 48.43 | 551 | 4.32 | 0.46 | 30.1 |
| 4/17/2015 4:38:09 | 50.85 | 48.75 | 525 | 4.09 | 0.46 | 28.7 |
| 4/17/2015 4:38:10 | 51.18 | 49.08 | 345 | 4.10 | 0.47 | 18.8 |
| 4/17/2015 4:38:13 | 51.51 | 49.41 | 165 | 4.31 | 0.48 | 9.0 |
| 4/17/2015 4:38:15 | 51.84 | 49.74 | 139 | 4.11 | 0.49 | 7.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 4:38:17 | 52.17 | 50.07 | 156 | 4.12 | 0.49 | 8.5 |
| 4/17/2015 | 4:38:21 | 52.49 | 50.39 | 98 | 3.99 | 0.49 | 5.3 |
| 4/17/2015 | 4:38:25 | 52.82 | 50.72 | 93 | 4.01 | 0.50 | 5.1 |
| 4/17/2015 | 4:38:30 | 53.15 | 51.05 | 72 | 3.92 | 0.50 | 3.9 |
| 4/17/2015 | 4:38:34 | 53.48 | 51.38 | 78 | 3.94 | 0.49 | 4.3 |
| 4/17/2015 | 4:38:39 | 53.81 | 51.71 | 75 | 3.94 | 0.48 | 4.1 |
| 4/17/2015 | 4:38:43 | 54.13 | 52.03 | 76 | 3.88 | 0.49 | 4.1 |
| 4/17/2015 | 4:38:48 | 54.46 | 52.36 | 63 | 4.00 | 0.49 | 3.5 |
| 4/17/2015 | 4:38:54 | 54.79 | 52.69 | 64 | 3.86 | 0.49 | 3.5 |
| 4/17/2015 | 4:39:01 | 55.12 | 53.02 | 55 | 3.91 | 0.49 | 3.0 |
| 4/17/2015 | 4:39:08 | 55.45 | 53.35 | 43 | 3.65 | 0.48 | 2.4 |
| 4/17/2015 | 4:39:18 | 55.77 | 53.67 | 33 | 4.02 | 0.48 | 1.8 |
| 4/17/2015 | 4:39:25 | 56.10 | 54.00 | 46 | 3.93 | 0.48 | 2.5 |
| 4/17/2015 | 4:39:33 | 56.43 | 54.33 | 49 | 3.79 | 0.48 | 2.7 |
| 4/17/2015 | 4:39:38 | 56.76 | 54.66 | 79 | 3.68 | 0.44 | 4.3 |
| 4/17/2015 | 4:39:47 | 57.09 | 54.99 | 40 | 3.89 | 0.46 | 2.2 |
| 4/17/2015 | 4:39:50 | 57.41 | 55.31 | 92 | 4.12 | 0.49 | 5.1 |
| 4/17/2015 | 4:39:58 | 57.67 | 55.57 | 26 | 3.09 | 0.17 | 1.4 |

## A60 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 4:34:10

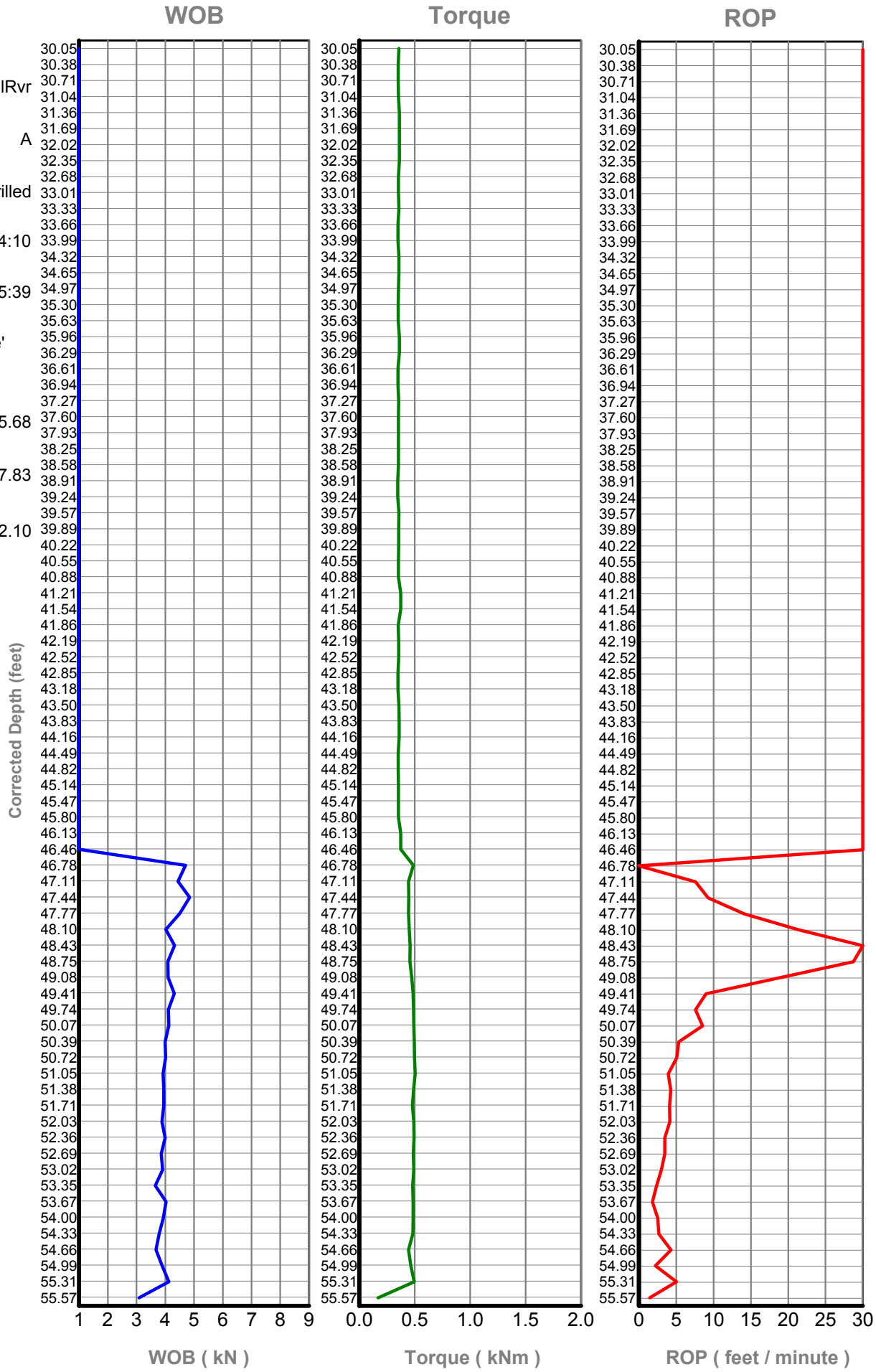
**End Date:**
4/17/2015 4:55:39

**Operator Note:**
'2.1 2-6a Auto Complete'

**Northing:**
371,255.68

**Easting:**
259,497.83

**Tide (feet):**
2.10



## Hole: A61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:36:47 | 32.15 | 30.05 | 1,092 | 0.29 | 0.42 | 59.7 |
| 4/17/2015 4:36:47 | 32.48 | 30.38 | 1,062 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:48 | 32.81 | 30.71 | 1,062 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:48 | 33.14 | 31.04 | 1,062 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:48 | 33.46 | 31.36 | 1,062 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:49 | 33.79 | 31.69 | 1,085 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 4:36:49 | 34.12 | 32.02 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:50 | 34.45 | 32.35 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:36:49 | 34.78 | 32.68 | 1,048 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 4:36:50 | 35.11 | 33.01 | 1,048 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 4:36:51 | 35.43 | 33.33 | 1,048 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 4:36:50 | 35.76 | 33.66 | 1,065 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:36:51 | 36.09 | 33.99 | 1,065 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:36:51 | 36.42 | 34.32 | 1,065 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:36:52 | 36.75 | 34.65 | 1,066 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 4:36:52 | 37.07 | 34.97 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:53 | 37.40 | 35.30 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:53 | 37.73 | 35.63 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:53 | 38.06 | 35.96 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:53 | 38.39 | 36.29 | 1,087 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 4:36:54 | 38.71 | 36.61 | 1,087 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 4:36:54 | 39.04 | 36.94 | 1,087 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 4:36:54 | 39.37 | 37.27 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:36:55 | 39.70 | 37.60 | 1,094 | 0.29 | 0.42 | 59.8 |
| 4/17/2015 4:36:55 | 40.03 | 37.93 | 1,094 | 0.29 | 0.42 | 59.8 |
| 4/17/2015 4:36:55 | 40.35 | 38.25 | 1,087 | 0.29 | 0.42 | 59.4 |
| 4/17/2015 4:36:56 | 40.68 | 38.58 | 1,063 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:36:56 | 41.01 | 38.91 | 1,063 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:36:56 | 41.34 | 39.24 | 1,076 | 0.29 | 0.42 | 58.9 |
| 4/17/2015 4:36:57 | 41.67 | 39.57 | 1,076 | 0.29 | 0.42 | 58.9 |
| 4/17/2015 4:36:57 | 41.99 | 39.89 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:36:57 | 42.32 | 40.22 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:58 | 42.65 | 40.55 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:36:58 | 42.98 | 40.88 | 1,069 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 4:36:58 | 43.31 | 41.21 | 1,084 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 4:36:59 | 43.64 | 41.54 | 1,084 | 0.29 | 0.42 | 59.3 |
| 4/17/2015 4:36:59 | 43.96 | 41.86 | 1,068 | 0.29 | 0.42 | 58.4 |
| 4/17/2015 4:36:59 | 44.29 | 42.19 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:37:00 | 44.62 | 42.52 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:37:00 | 44.95 | 42.85 | 1,063 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:37:00 | 45.28 | 43.18 | 1,066 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 4:37:01 | 45.60 | 43.50 | 1,066 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 4:37:01 | 45.93 | 43.83 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 4:37:02 | 46.26 | 44.16 | 1,069 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 4:37:02 | 46.59 | 44.49 | 1,069 | 0.29 | 0.42 | 58.5 |
| 4/17/2015 4:37:02 | 46.92 | 44.82 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:37:03 | 47.24 | 45.14 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:37:03 | 47.57 | 45.47 | 1,088 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 4:37:03 | 47.90 | 45.80 | 1,081 | 0.29 | 0.42 | 59.1 |
| 4/17/2015 4:37:04 | 48.23 | 46.13 | 1,081 | 0.29 | 0.42 | 59.1 |
| 4/17/2015 4:37:04 | 48.56 | 46.46 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:37:04 | 48.88 | 46.78 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:37:05 | 49.21 | 47.11 | 1,074 | 0.29 | 0.42 | 58.7 |
| 4/17/2015 4:37:05 | 49.54 | 47.44 | 1,089 | 0.29 | 0.42 | 59.5 |
| 4/17/2015 4:37:05 | 49.87 | 47.77 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 4:37:06 | 50.20 | 48.10 | 1,076 | 0.29 | 0.42 | 58.8 |
| 4/17/2015 4:37:28 | 50.53 | 48.43 | 66 | 0.29 | 0.42 | 3.6 |
| 4/17/2015 4:37:30 | 50.85 | 48.75 | 162 | 0.29 | 0.42 | 8.9 |
| 4/17/2015 4:37:33 | 51.18 | 49.08 | 101 | 0.29 | 0.42 | 5.5 |
| 4/17/2015 4:37:36 | 51.51 | 49.41 | 127 | 0.29 | 0.42 | 6.9 |
| 4/17/2015 4:37:39 | 51.84 | 49.74 | 140 | 0.29 | 0.42 | 7.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 4:37:42 | 52.17 | 50.07 | 113 | 0.29 | 0.42 | 6.2 |
| 4/17/2015 | 4:37:45 | 52.49 | 50.39 | 87 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 4:37:50 | 52.82 | 50.72 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 4:37:54 | 53.15 | 51.05 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 | 4:37:59 | 53.48 | 51.38 | 63 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 | 4:38:03 | 53.81 | 51.71 | 92 | 0.29 | 0.42 | 5.0 |
| 4/17/2015 | 4:38:08 | 54.13 | 52.03 | 71 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 | 4:38:14 | 54.46 | 52.36 | 60 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 | 4:38:16 | 54.79 | 52.69 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 | 4:38:18 | 55.12 | 53.02 | 165 | 0.29 | 0.42 | 9.0 |
| 4/17/2015 | 4:38:20 | 55.45 | 53.35 | 215 | 0.29 | 0.42 | 11.8 |
| 4/17/2015 | 4:38:21 | 55.77 | 53.67 | 244 | 0.29 | 0.42 | 13.3 |
| 4/17/2015 | 4:38:22 | 56.10 | 54.00 | 259 | 0.29 | 0.42 | 14.2 |
| 4/17/2015 | 4:38:25 | 56.43 | 54.33 | 208 | 0.29 | 0.42 | 11.4 |
| 4/17/2015 | 4:38:27 | 56.76 | 54.66 | 170 | 0.29 | 0.42 | 9.3 |
| 4/17/2015 | 4:38:29 | 57.09 | 54.99 | 177 | 0.29 | 0.42 | 9.7 |
| 4/17/2015 | 4:38:31 | 57.41 | 55.31 | 168 | 0.29 | 0.42 | 9.2 |
| 4/17/2015 | 4:38:44 | 57.74 | 55.64 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 | 4:38:50 | 58.07 | 55.97 | 52 | 0.29 | 0.42 | 2.9 |
| 4/17/2015 | 4:39:40 | 58.32 | 56.22 | 0 | 0.29 | 0.42 | 0.0 |

## A61 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 4:34:40

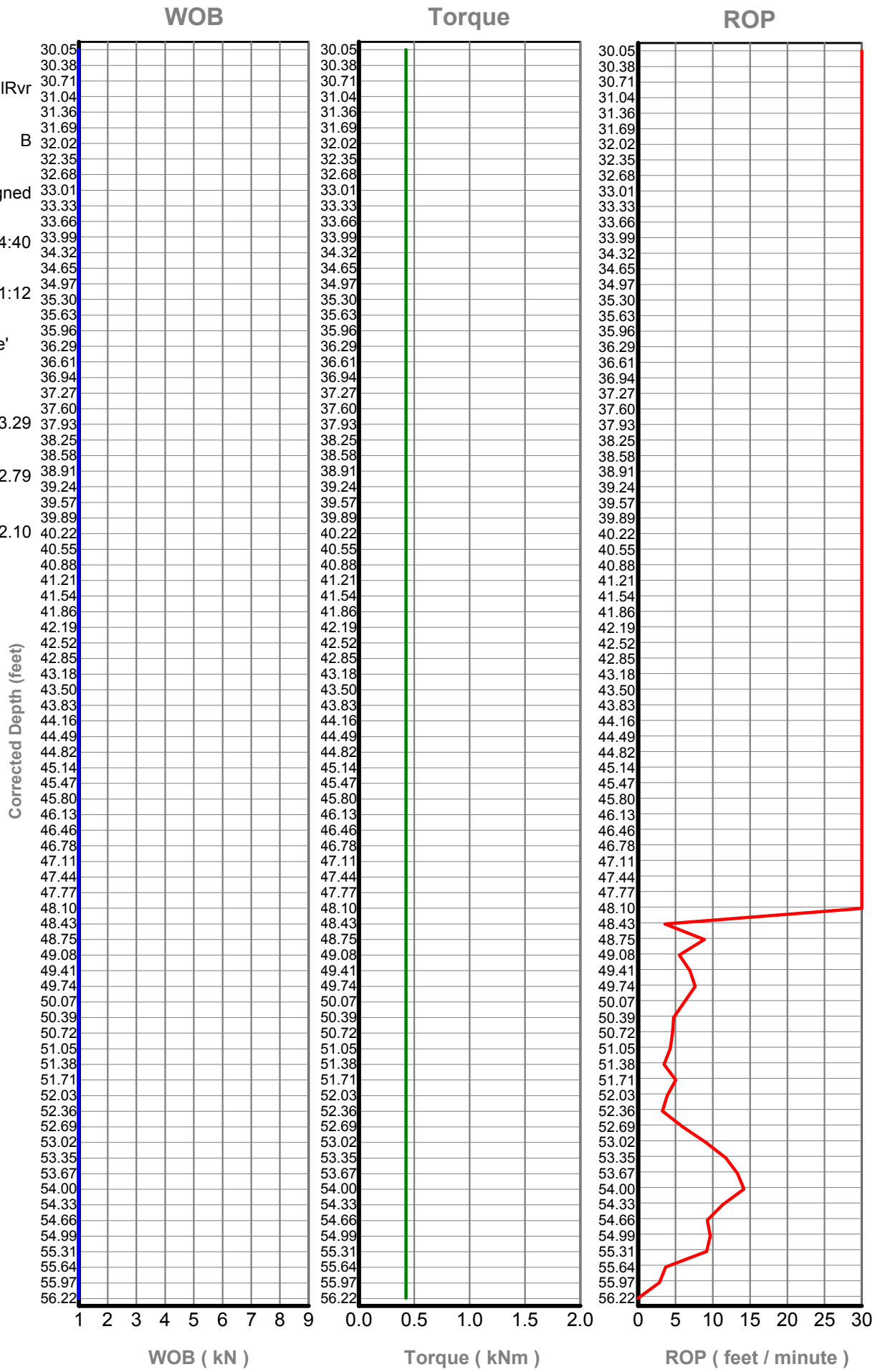
**End Date:**
4/17/2015 4:41:12

**Operator Note:**
'2.1 2.5 b Auto Complete'

**Northing:**
371,253.29

**Easting:**
259,572.79

**Tide (feet):**
2.10



## Hole: A62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:33:18 | 32.15 | 30.05 | 605 | 2.15 | 0.15 | 33.1 |
| 4/17/2015 4:33:18 | 32.48 | 30.38 | 601 | 2.16 | 0.15 | 32.9 |
| 4/17/2015 4:33:19 | 32.81 | 30.71 | 601 | 2.15 | 0.15 | 32.9 |
| 4/17/2015 4:33:20 | 33.14 | 31.04 | 601 | 2.15 | 0.15 | 32.9 |
| 4/17/2015 4:33:20 | 33.46 | 31.36 | 595 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 4:33:21 | 33.79 | 31.69 | 601 | 2.14 | 0.15 | 32.9 |
| 4/17/2015 4:33:21 | 34.12 | 32.02 | 601 | 2.14 | 0.15 | 32.9 |
| 4/17/2015 4:33:22 | 34.45 | 32.35 | 594 | 2.14 | 0.16 | 32.5 |
| 4/17/2015 4:33:22 | 34.78 | 32.68 | 599 | 2.15 | 0.15 | 32.7 |
| 4/17/2015 4:33:23 | 35.11 | 33.01 | 602 | 2.15 | 0.16 | 32.9 |
| 4/17/2015 4:33:24 | 35.43 | 33.33 | 586 | 2.14 | 0.15 | 32.1 |
| 4/17/2015 4:33:24 | 35.76 | 33.66 | 590 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 4:33:25 | 36.09 | 33.99 | 590 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 4:33:25 | 36.42 | 34.32 | 591 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 4:33:26 | 36.75 | 34.65 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 4:33:26 | 37.07 | 34.97 | 592 | 2.15 | 0.16 | 32.4 |
| 4/17/2015 4:33:27 | 37.40 | 35.30 | 608 | 2.14 | 0.15 | 33.2 |
| 4/17/2015 4:33:28 | 37.73 | 35.63 | 602 | 2.15 | 0.15 | 32.9 |
| 4/17/2015 4:33:29 | 38.06 | 35.96 | 598 | 2.15 | 0.15 | 32.7 |
| 4/17/2015 4:33:29 | 38.39 | 36.29 | 601 | 2.16 | 0.16 | 32.9 |
| 4/17/2015 4:33:30 | 38.71 | 36.61 | 598 | 2.14 | 0.16 | 32.7 |
| 4/17/2015 4:33:30 | 39.04 | 36.94 | 598 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:31 | 39.37 | 37.27 | 598 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:31 | 39.70 | 37.60 | 598 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 4:33:32 | 40.03 | 37.93 | 598 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:33 | 40.35 | 38.25 | 598 | 2.15 | 0.15 | 32.7 |
| 4/17/2015 4:33:33 | 40.68 | 38.58 | 598 | 2.37 | 0.15 | 32.7 |
| 4/17/2015 4:33:34 | 41.01 | 38.91 | 598 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:34 | 41.34 | 39.24 | 598 | 2.15 | 0.16 | 32.7 |
| 4/17/2015 4:33:35 | 41.67 | 39.57 | 595 | 2.14 | 0.15 | 32.5 |
| 4/17/2015 4:33:35 | 41.99 | 39.89 | 599 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:36 | 42.32 | 40.22 | 589 | 2.15 | 0.15 | 32.2 |
| 4/17/2015 4:33:37 | 42.65 | 40.55 | 589 | 2.16 | 0.15 | 32.2 |
| 4/17/2015 4:33:38 | 42.98 | 40.88 | 594 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 4:33:38 | 43.31 | 41.21 | 588 | 2.14 | 0.15 | 32.1 |
| 4/17/2015 4:33:39 | 43.64 | 41.54 | 588 | 2.16 | 0.15 | 32.1 |
| 4/17/2015 4:33:39 | 43.96 | 41.86 | 589 | 2.14 | 0.15 | 32.2 |
| 4/17/2015 4:33:40 | 44.29 | 42.19 | 601 | 2.14 | 0.15 | 32.8 |
| 4/17/2015 4:33:41 | 44.62 | 42.52 | 593 | 2.11 | 0.15 | 32.4 |
| 4/17/2015 4:33:41 | 44.95 | 42.85 | 603 | 2.14 | 0.15 | 33.0 |
| 4/17/2015 4:33:42 | 45.28 | 43.18 | 598 | 2.14 | 0.15 | 32.7 |
| 4/17/2015 4:33:42 | 45.60 | 43.50 | 592 | 2.15 | 0.15 | 32.4 |
| 4/17/2015 4:33:43 | 45.93 | 43.83 | 595 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 4:33:43 | 46.26 | 44.16 | 592 | 2.14 | 0.15 | 32.4 |
| 4/17/2015 4:33:44 | 46.59 | 44.49 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 4:33:45 | 46.92 | 44.82 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 4:33:45 | 47.24 | 45.14 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 4:33:46 | 47.57 | 45.47 | 595 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 4:33:46 | 47.90 | 45.80 | 592 | 2.15 | 0.15 | 32.4 |
| 4/17/2015 4:33:47 | 48.23 | 46.13 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 4:33:47 | 48.56 | 46.46 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 4:33:49 | 48.88 | 46.78 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 4:33:49 | 49.21 | 47.11 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 4:33:50 | 49.54 | 47.44 | 589 | 2.19 | 0.15 | 32.2 |
| 4/17/2015 4:34:27 | 49.87 | 47.77 | 32 | 2.25 | 1.13 | 1.8 |
| 4/17/2015 4:34:30 | 50.20 | 48.10 | 121 | 2.18 | 1.12 | 6.6 |
| 4/17/2015 4:34:30 | 50.53 | 48.43 | 160 | 2.19 | 1.19 | 8.7 |
| 4/17/2015 4:34:35 | 50.85 | 48.75 | 24 | 2.33 | 1.54 | 1.3 |
| 4/17/2015 4:34:53 | 51.18 | 49.08 | 69 | 2.29 | 1.36 | 3.8 |
| 4/17/2015 4:34:54 | 51.51 | 49.41 | 156 | 2.31 | 1.18 | 8.5 |
| 4/17/2015 4:34:55 | 51.84 | 49.74 | 261 | 2.28 | 1.28 | 14.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 4:34:58 | 52.17 | 50.07 | 209 | 2.38 | 1.48 | 11.5 |
| 4/17/2015 | 4:35:04 | 52.49 | 50.39 | 49 | 2.38 | 1.30 | 2.7 |
| 4/17/2015 | 4:35:10 | 52.82 | 50.72 | 61 | 2.39 | 1.33 | 3.3 |
| 4/17/2015 | 4:35:14 | 53.02 | 50.92 | 54 | 2.40 | 1.51 | 3.0 |

## A62 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 4:31:38

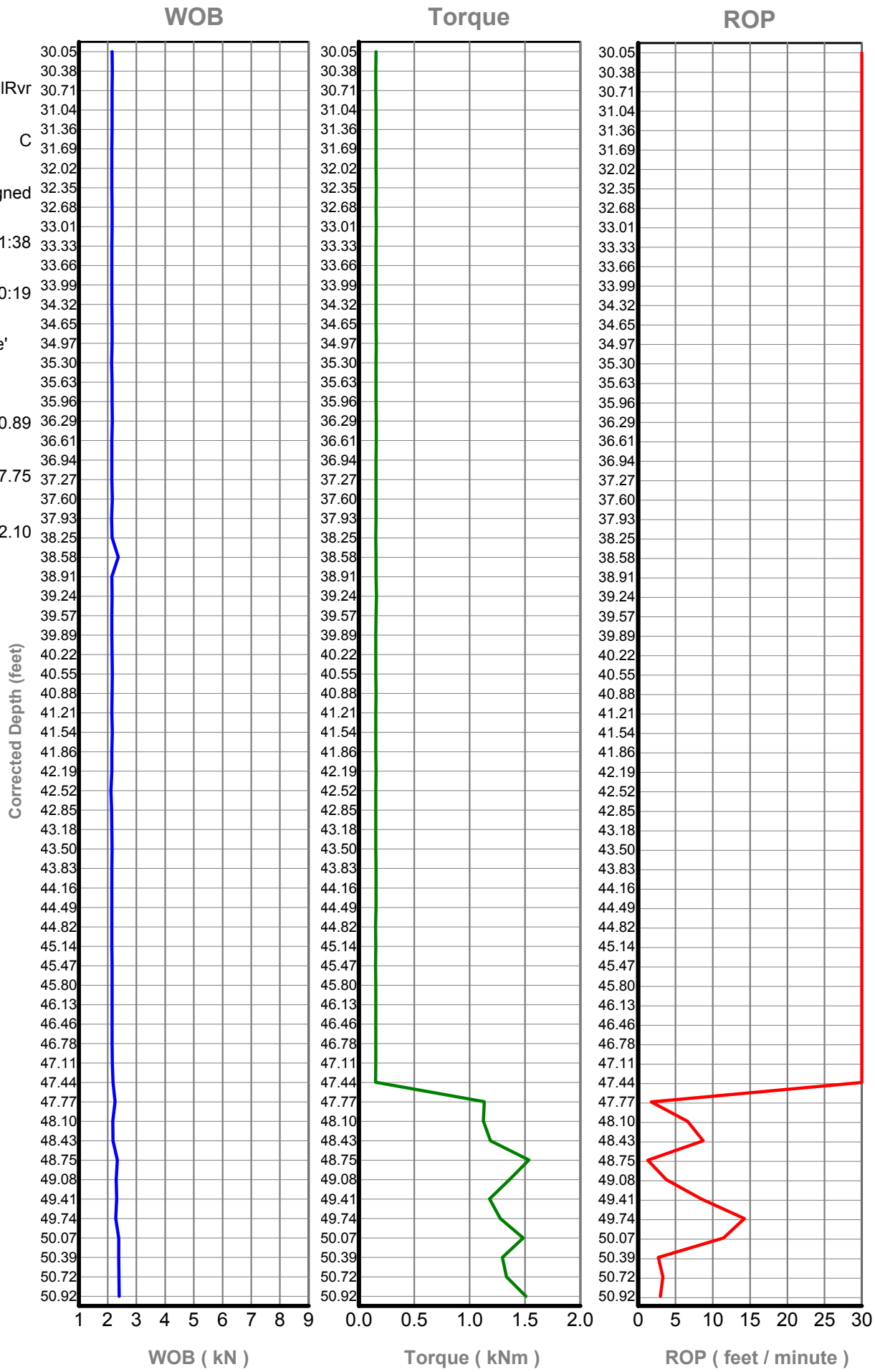
**End Date:**
4/17/2015 4:40:19

**Operator Note:**
'2.1 2.5 c Auto Complete'

**Northing:**
371,250.89

**Easting:**
259,647.75

**Tide (feet):**
2.10



## Hole: A63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:49:47 | 30.51 | 30.11 | 1,109 | 1.34 | 0.33 | 60.7 |
| 4/16/2015 17:49:48 | 30.84 | 30.44 | 1,109 | 1.34 | 0.33 | 60.7 |
| 4/16/2015 17:49:48 | 31.17 | 30.77 | 1,105 | 1.36 | 0.33 | 60.4 |
| 4/16/2015 17:49:48 | 31.50 | 31.10 | 1,099 | 1.36 | 0.33 | 60.1 |
| 4/16/2015 17:49:48 | 31.82 | 31.42 | 1,099 | 1.36 | 0.33 | 60.1 |
| 4/16/2015 17:49:49 | 32.15 | 31.75 | 1,099 | 1.36 | 0.32 | 60.1 |
| 4/16/2015 17:49:49 | 32.48 | 32.08 | 1,099 | 1.36 | 0.32 | 60.1 |
| 4/16/2015 17:49:49 | 32.81 | 32.41 | 1,113 | 1.35 | 0.32 | 60.9 |
| 4/16/2015 17:49:50 | 33.14 | 32.74 | 1,118 | 1.36 | 0.33 | 61.2 |
| 4/16/2015 17:49:50 | 33.46 | 33.06 | 1,118 | 1.36 | 0.33 | 61.2 |
| 4/16/2015 17:49:50 | 33.79 | 33.39 | 1,128 | 1.36 | 0.33 | 61.7 |
| 4/16/2015 17:49:51 | 34.12 | 33.72 | 1,128 | 1.36 | 0.33 | 61.7 |
| 4/16/2015 17:49:51 | 34.45 | 34.05 | 1,136 | 1.34 | 0.33 | 62.1 |
| 4/16/2015 17:49:51 | 34.78 | 34.38 | 1,148 | 1.35 | 0.32 | 62.8 |
| 4/16/2015 17:49:52 | 35.11 | 34.71 | 1,148 | 1.35 | 0.32 | 62.8 |
| 4/16/2015 17:49:52 | 35.43 | 35.03 | 1,138 | 1.35 | 0.32 | 62.2 |
| 4/16/2015 17:49:52 | 35.76 | 35.36 | 1,138 | 1.35 | 0.32 | 62.2 |
| 4/16/2015 17:49:52 | 36.09 | 35.69 | 1,138 | 1.35 | 0.32 | 62.2 |
| 4/16/2015 17:49:53 | 36.42 | 36.02 | 1,130 | 1.35 | 0.32 | 61.8 |
| 4/16/2015 17:49:53 | 36.75 | 36.35 | 1,130 | 1.35 | 0.32 | 61.8 |
| 4/16/2015 17:49:53 | 37.07 | 36.67 | 1,115 | 1.36 | 0.33 | 61.0 |
| 4/16/2015 17:49:54 | 37.40 | 37.00 | 1,115 | 1.36 | 0.32 | 61.0 |
| 4/16/2015 17:49:54 | 37.73 | 37.33 | 1,115 | 1.36 | 0.32 | 61.0 |
| 4/16/2015 17:49:54 | 38.06 | 37.66 | 1,114 | 1.35 | 0.31 | 60.9 |
| 4/16/2015 17:49:55 | 38.39 | 37.99 | 1,114 | 1.35 | 0.31 | 60.9 |
| 4/16/2015 17:49:55 | 38.71 | 38.31 | 1,091 | 1.35 | 0.33 | 59.6 |
| 4/16/2015 17:49:55 | 39.04 | 38.64 | 1,091 | 1.35 | 0.32 | 59.6 |
| 4/16/2015 17:49:56 | 39.37 | 38.97 | 1,091 | 1.35 | 0.32 | 59.6 |
| 4/16/2015 17:49:56 | 39.70 | 39.30 | 1,112 | 1.35 | 0.32 | 60.8 |
| 4/16/2015 17:49:56 | 40.03 | 39.63 | 1,112 | 1.35 | 0.32 | 60.8 |
| 4/16/2015 17:49:56 | 40.35 | 39.95 | 1,112 | 1.32 | 0.15 | 60.8 |
| 4/16/2015 17:50:19 | 40.68 | 40.28 | 0 | 1.28 | 0.33 | 0.0 |
| 4/16/2015 17:50:20 | 41.01 | 40.61 | 168 | 1.34 | 0.33 | 9.2 |
| 4/16/2015 17:50:20 | 41.34 | 40.94 | 376 | 1.36 | 0.34 | 20.6 |
| 4/16/2015 17:50:21 | 41.67 | 41.27 | 376 | 1.36 | 0.34 | 20.6 |
| 4/16/2015 17:50:21 | 41.99 | 41.59 | 596 | 1.36 | 0.34 | 32.6 |
| 4/16/2015 17:50:21 | 42.32 | 41.92 | 596 | 1.36 | 0.34 | 32.6 |
| 4/16/2015 17:50:21 | 42.65 | 42.25 | 826 | 1.38 | 0.31 | 45.2 |
| 4/16/2015 17:50:22 | 42.98 | 42.58 | 1,048 | 1.37 | 0.34 | 57.3 |
| 4/16/2015 17:50:22 | 43.31 | 42.91 | 1,048 | 1.37 | 0.34 | 57.3 |
| 4/16/2015 17:50:22 | 43.64 | 43.24 | 1,103 | 1.38 | 0.33 | 60.3 |
| 4/16/2015 17:50:23 | 43.96 | 43.56 | 1,103 | 1.38 | 0.33 | 60.3 |
| 4/16/2015 17:50:23 | 44.29 | 43.89 | 1,125 | 1.39 | 0.33 | 61.5 |
| 4/16/2015 17:50:23 | 44.62 | 44.22 | 1,125 | 1.38 | 0.33 | 61.5 |
| 4/16/2015 17:50:24 | 44.95 | 44.55 | 1,125 | 1.38 | 0.33 | 61.5 |
| 4/16/2015 17:50:24 | 45.28 | 44.88 | 1,127 | 1.38 | 0.33 | 61.7 |
| 4/16/2015 17:50:24 | 45.60 | 45.20 | 1,127 | 1.38 | 0.33 | 61.7 |
| 4/16/2015 17:50:24 | 45.93 | 45.53 | 1,121 | 1.36 | 0.32 | 61.3 |
| 4/16/2015 17:50:25 | 46.26 | 45.86 | 1,131 | 1.37 | 0.33 | 61.8 |
| 4/16/2015 17:50:25 | 46.59 | 46.19 | 1,131 | 1.37 | 0.33 | 61.8 |
| 4/16/2015 17:50:25 | 46.92 | 46.52 | 1,128 | 1.36 | 0.33 | 61.7 |
| 4/16/2015 17:50:26 | 47.24 | 46.84 | 1,125 | 1.36 | 0.32 | 61.5 |
| 4/16/2015 17:50:26 | 47.57 | 47.17 | 1,125 | 1.36 | 0.32 | 61.5 |
| 4/16/2015 17:50:26 | 47.90 | 47.50 | 1,112 | 0.51 | 0.35 | 60.8 |
| 4/16/2015 17:50:45 | 48.23 | 47.83 | 0 | 3.66 | 0.50 | 0.0 |
| 4/16/2015 17:50:46 | 48.56 | 48.16 | 90 | 3.56 | 0.51 | 4.9 |
| 4/16/2015 17:50:51 | 48.88 | 48.48 | 74 | 3.56 | 0.52 | 4.1 |
| 4/16/2015 17:50:58 | 49.21 | 48.81 | 49 | 3.62 | 0.52 | 2.7 |
| 4/16/2015 17:51:06 | 49.54 | 49.14 | 40 | 3.66 | 0.53 | 2.2 |
| 4/16/2015 17:51:20 | 49.87 | 49.47 | 21 | 4.02 | 0.53 | 1.2 |
| 4/16/2015 17:51:38 | 50.20 | 49.80 | 20 | 4.03 | 0.50 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:51:43 | 50.53 | 50.13 | 69 | 4.06 | 0.47 | 3.8 |
| 4/16/2015 | 17:51:49 | 50.85 | 50.45 | 66 | 4.23 | 0.47 | 3.6 |
| 4/16/2015 | 17:51:55 | 51.18 | 50.78 | 57 | 4.38 | 0.49 | 3.1 |
| 4/16/2015 | 17:52:06 | 51.47 | 51.07 | 56 | 3.60 | 0.22 | 3.0 |

## A63 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:48:04

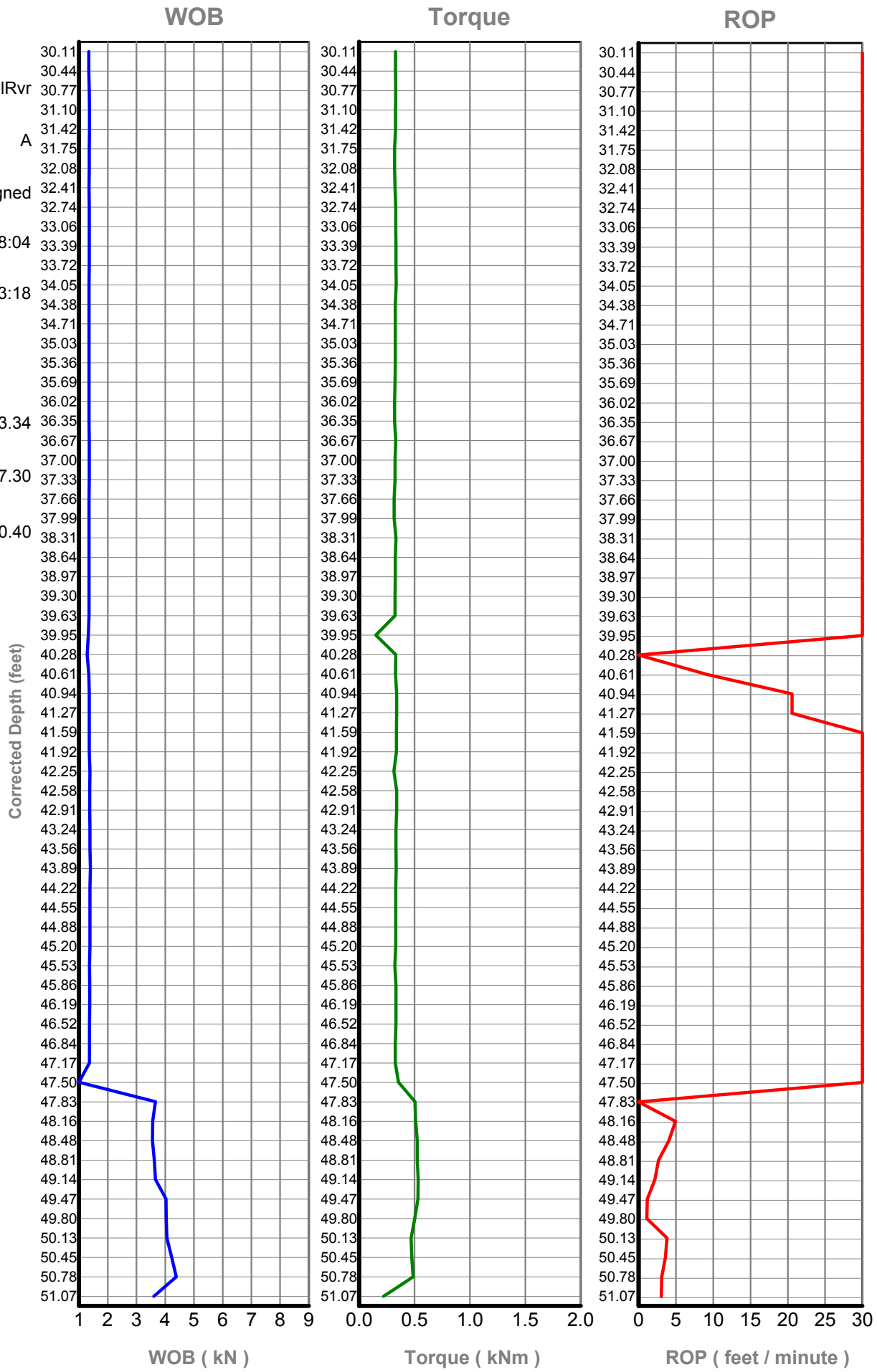
**End Date:**
4/16/2015 17:53:18

**Operator Note:**
'0.4 .6 a Auto Complete'

**Northing:**
371,253.34

**Easting:**
259,727.30

**Tide (feet):**
0.40



## Hole: A64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:49:02 | 30.51 | 30.11 | 903 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 17:49:02 | 30.84 | 30.44 | 906 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 17:49:03 | 31.17 | 30.77 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:49:03 | 31.50 | 31.10 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 17:49:03 | 31.82 | 31.42 | 897 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:49:04 | 32.15 | 31.75 | 897 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 17:49:04 | 32.48 | 32.08 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 17:49:05 | 32.81 | 32.41 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 17:49:05 | 33.14 | 32.74 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 17:49:06 | 33.46 | 33.06 | 879 | 0.29 | 0.42 | 48.1 |
| 4/16/2015 17:49:06 | 33.79 | 33.39 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 17:49:07 | 34.12 | 33.72 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:07 | 34.45 | 34.05 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:07 | 34.78 | 34.38 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:08 | 35.11 | 34.71 | 866 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 17:49:08 | 35.43 | 35.03 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 17:49:09 | 35.76 | 35.36 | 851 | 0.29 | 0.42 | 46.5 |
| 4/16/2015 17:49:09 | 36.09 | 35.69 | 851 | 0.29 | 0.42 | 46.5 |
| 4/16/2015 17:49:09 | 36.42 | 36.02 | 853 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 17:49:10 | 36.75 | 36.35 | 853 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 17:49:10 | 37.07 | 36.67 | 869 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 17:49:11 | 37.40 | 37.00 | 848 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 17:49:11 | 37.73 | 37.33 | 848 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 17:49:11 | 38.06 | 37.66 | 823 | 0.29 | 0.42 | 45.0 |
| 4/16/2015 17:49:12 | 38.39 | 37.99 | 824 | 0.29 | 0.42 | 45.1 |
| 4/16/2015 17:49:12 | 38.71 | 38.31 | 824 | 0.29 | 0.42 | 45.1 |
| 4/16/2015 17:49:13 | 39.04 | 38.64 | 857 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 17:49:13 | 39.37 | 38.97 | 857 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 17:49:13 | 39.70 | 39.30 | 839 | 0.29 | 0.42 | 45.9 |
| 4/16/2015 17:49:14 | 40.03 | 39.63 | 836 | 0.29 | 0.42 | 45.7 |
| 4/16/2015 17:49:14 | 40.35 | 39.95 | 859 | 0.29 | 0.42 | 47.0 |
| 4/16/2015 17:49:15 | 40.68 | 40.28 | 873 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 17:49:15 | 41.01 | 40.61 | 873 | 0.29 | 0.42 | 47.7 |
| 4/16/2015 17:49:15 | 41.34 | 40.94 | 842 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 17:49:16 | 41.67 | 41.27 | 842 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 17:49:16 | 41.99 | 41.59 | 850 | 0.29 | 0.42 | 46.5 |
| 4/16/2015 17:49:17 | 42.32 | 41.92 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 17:49:17 | 42.65 | 42.25 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 17:49:17 | 42.98 | 42.58 | 863 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:18 | 43.31 | 42.91 | 855 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 17:49:19 | 43.64 | 43.24 | 863 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:19 | 43.96 | 43.56 | 855 | 0.29 | 0.42 | 46.8 |
| 4/16/2015 17:49:20 | 44.29 | 43.89 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 17:49:20 | 44.62 | 44.22 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 17:49:20 | 44.95 | 44.55 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 17:49:21 | 45.28 | 44.88 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:21 | 45.60 | 45.20 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:22 | 45.93 | 45.53 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:22 | 46.26 | 45.86 | 866 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 17:49:22 | 46.59 | 46.19 | 866 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 17:49:23 | 46.92 | 46.52 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 17:49:35 | 47.24 | 46.84 | 50 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 17:49:39 | 47.57 | 47.17 | 59 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 17:49:48 | 47.90 | 47.50 | 37 | 0.29 | 0.42 | 2.0 |
| 4/16/2015 17:49:51 | 48.23 | 47.83 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 17:49:53 | 48.56 | 48.16 | 153 | 0.29 | 0.42 | 8.4 |
| 4/16/2015 17:49:54 | 48.88 | 48.48 | 193 | 0.29 | 0.42 | 10.5 |
| 4/16/2015 17:50:15 | 49.21 | 48.81 | 29 | 0.29 | 0.42 | 1.6 |
| 4/16/2015 17:50:26 | 49.54 | 49.14 | 43 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 17:50:32 | 49.87 | 49.47 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 17:50:38 | 50.20 | 49.80 | 49 | 0.29 | 0.42 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 17:50:45 | 50.53 | 50.13 | 49 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 | 17:50:53 | 50.85 | 50.45 | 43 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 17:51:02 | 51.18 | 50.78 | 44 | 0.29 | 0.42 | 2.4 |

## A64 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:46:44

**End Date:**
4/16/2015 17:52:31

**Operator Note:**
'0.4 0.6 b Auto Complete'

**Northing:**
371,248.90

**Easting:**
259,802.20

**Tide (feet):**
0.40



## Hole: A65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 17:50:26 | 30.51 | 30.11 | 709 | 2.25 | 0.13 | 38.7 |
| 4/16/2015 17:50:27 | 30.84 | 30.44 | 730 | 2.25 | 0.13 | 39.9 |
| 4/16/2015 17:50:27 | 31.17 | 30.77 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:50:28 | 31.50 | 31.10 | 721 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:50:28 | 31.82 | 31.42 | 717 | 2.19 | 0.13 | 39.2 |
| 4/16/2015 17:50:29 | 32.15 | 31.75 | 729 | 2.26 | 0.13 | 39.9 |
| 4/16/2015 17:50:30 | 32.48 | 32.08 | 720 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:50:30 | 32.81 | 32.41 | 705 | 2.25 | 0.13 | 38.5 |
| 4/16/2015 17:50:30 | 33.14 | 32.74 | 705 | 2.25 | 0.13 | 38.5 |
| 4/16/2015 17:50:31 | 33.46 | 33.06 | 712 | 2.25 | 0.13 | 38.9 |
| 4/16/2015 17:50:32 | 33.79 | 33.39 | 716 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:50:32 | 34.12 | 33.72 | 704 | 2.25 | 0.13 | 38.5 |
| 4/16/2015 17:50:33 | 34.45 | 34.05 | 716 | 2.25 | 0.13 | 39.1 |
| 4/16/2015 17:50:33 | 34.78 | 34.38 | 735 | 2.25 | 0.13 | 40.2 |
| 4/16/2015 17:50:34 | 35.11 | 34.71 | 724 | 2.26 | 0.13 | 39.6 |
| 4/16/2015 17:50:34 | 35.43 | 35.03 | 716 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:50:35 | 35.76 | 35.36 | 725 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:50:35 | 36.09 | 35.69 | 720 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:50:36 | 36.42 | 36.02 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:50:36 | 36.75 | 36.35 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:50:37 | 37.07 | 36.67 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 17:50:37 | 37.40 | 37.00 | 720 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:50:37 | 37.73 | 37.33 | 721 | 2.26 | 0.13 | 39.4 |
| 4/16/2015 17:50:38 | 38.06 | 37.66 | 717 | 2.22 | 0.13 | 39.2 |
| 4/16/2015 17:50:38 | 38.39 | 37.99 | 708 | 2.25 | 0.13 | 38.7 |
| 4/16/2015 17:50:39 | 38.71 | 38.31 | 708 | 2.26 | 0.13 | 38.7 |
| 4/16/2015 17:50:39 | 39.04 | 38.64 | 716 | 2.25 | 0.13 | 39.1 |
| 4/16/2015 17:50:40 | 39.37 | 38.97 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:50:40 | 39.70 | 39.30 | 713 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 17:50:41 | 40.03 | 39.63 | 713 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 17:50:42 | 40.35 | 39.95 | 725 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:50:42 | 40.68 | 40.28 | 717 | 2.26 | 0.13 | 39.2 |
| 4/16/2015 17:50:43 | 41.01 | 40.61 | 713 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 17:50:43 | 41.34 | 40.94 | 720 | 2.25 | 0.13 | 39.4 |
| 4/16/2015 17:50:44 | 41.67 | 41.27 | 720 | 2.26 | 0.13 | 39.4 |
| 4/16/2015 17:50:44 | 41.99 | 41.59 | 717 | 2.27 | 0.13 | 39.2 |
| 4/16/2015 17:50:45 | 42.32 | 41.92 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 17:50:45 | 42.65 | 42.25 | 724 | 2.25 | 0.13 | 39.6 |
| 4/16/2015 17:50:46 | 42.98 | 42.58 | 702 | 2.25 | 0.13 | 38.4 |
| 4/16/2015 17:50:46 | 43.31 | 42.91 | 702 | 2.25 | 0.13 | 38.4 |
| 4/16/2015 17:50:47 | 43.64 | 43.24 | 712 | 2.26 | 0.13 | 38.9 |
| 4/16/2015 17:50:47 | 43.96 | 43.56 | 711 | 2.26 | 0.13 | 38.9 |
| 4/16/2015 17:50:48 | 44.29 | 43.89 | 711 | 2.26 | 0.13 | 38.9 |
| 4/16/2015 17:51:15 | 44.62 | 44.22 | 0 | 2.28 | 0.95 | 0.0 |
| 4/16/2015 17:51:20 | 44.95 | 44.55 | 69 | 2.52 | 1.31 | 3.8 |
| 4/16/2015 17:51:24 | 45.28 | 44.88 | 95 | 2.52 | 1.33 | 5.2 |
| 4/16/2015 17:51:28 | 45.60 | 45.20 | 84 | 2.48 | 1.28 | 4.6 |
| 4/16/2015 17:51:32 | 45.93 | 45.53 | 93 | 2.50 | 1.21 | 5.1 |
| 4/16/2015 17:51:36 | 46.26 | 45.86 | 102 | 2.48 | 1.28 | 5.6 |
| 4/16/2015 17:51:38 | 46.59 | 46.19 | 142 | 2.48 | 1.30 | 7.8 |
| 4/16/2015 17:51:41 | 46.92 | 46.52 | 130 | 2.50 | 1.30 | 7.1 |
| 4/16/2015 17:51:45 | 47.24 | 46.84 | 83 | 2.50 | 1.25 | 4.6 |
| 4/16/2015 17:51:50 | 47.57 | 47.17 | 81 | 2.50 | 1.30 | 4.4 |
| 4/16/2015 17:51:54 | 47.90 | 47.50 | 84 | 2.52 | 1.31 | 4.6 |
| 4/16/2015 17:51:58 | 48.23 | 47.83 | 94 | 2.51 | 1.49 | 5.1 |
| 4/16/2015 17:52:02 | 48.56 | 48.16 | 95 | 2.53 | 1.38 | 5.2 |
| 4/16/2015 17:52:06 | 48.88 | 48.48 | 98 | 2.51 | 1.47 | 5.4 |
| 4/16/2015 17:52:10 | 49.21 | 48.81 | 81 | 2.51 | 1.34 | 4.4 |
| 4/16/2015 17:52:13 | 49.48 | 49.08 | 70 | 2.50 | 1.39 | 3.8 |

## A65 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 17:48:39

**End Date:**
4/16/2015 17:57:29

**Operator Note:**
'0.4 .6 c Auto Complete'

**Northing:**
371,244.47

**Easting:**
259,877.07

**Tide (feet):**
0.40



## Hole: A66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:41:49 | 34.45 | 30.25 | 1,087 | 0.47 | 0.33 | 59.5 |
| 4/15/2015 13:41:50 | 34.78 | 30.58 | 1,091 | 0.47 | 0.33 | 59.7 |
| 4/15/2015 13:41:51 | 35.11 | 30.91 | 1,091 | 0.47 | 0.33 | 59.7 |
| 4/15/2015 13:41:50 | 35.43 | 31.23 | 1,073 | 0.47 | 0.32 | 58.7 |
| 4/15/2015 13:41:51 | 35.76 | 31.56 | 1,073 | 0.47 | 0.32 | 58.7 |
| 4/15/2015 13:41:51 | 36.09 | 31.89 | 1,073 | 0.47 | 0.32 | 58.7 |
| 4/15/2015 13:41:52 | 36.42 | 32.22 | 1,082 | 0.47 | 0.32 | 59.2 |
| 4/15/2015 13:41:52 | 36.75 | 32.55 | 1,082 | 0.47 | 0.32 | 59.2 |
| 4/15/2015 13:41:52 | 37.07 | 32.87 | 1,085 | 0.46 | 0.31 | 59.3 |
| 4/15/2015 13:41:53 | 37.40 | 33.20 | 1,085 | 0.46 | 0.32 | 59.3 |
| 4/15/2015 13:41:53 | 37.73 | 33.53 | 1,085 | 0.46 | 0.32 | 59.3 |
| 4/15/2015 13:41:53 | 38.06 | 33.86 | 1,074 | 0.46 | 0.31 | 58.8 |
| 4/15/2015 13:41:54 | 38.39 | 34.19 | 1,074 | 0.46 | 0.31 | 58.8 |
| 4/15/2015 13:41:54 | 38.71 | 34.51 | 1,074 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 13:41:54 | 39.04 | 34.84 | 1,083 | 0.46 | 0.33 | 59.2 |
| 4/15/2015 13:41:55 | 39.37 | 35.17 | 1,083 | 0.46 | 0.33 | 59.2 |
| 4/15/2015 13:41:55 | 39.70 | 35.50 | 1,077 | 0.43 | 0.33 | 58.9 |
| 4/15/2015 13:41:55 | 40.03 | 35.83 | 1,068 | 0.46 | 0.32 | 58.4 |
| 4/15/2015 13:41:56 | 40.35 | 36.15 | 1,068 | 0.46 | 0.32 | 58.4 |
| 4/15/2015 13:41:56 | 40.68 | 36.48 | 1,068 | 0.46 | 0.31 | 58.4 |
| 4/15/2015 13:41:56 | 41.01 | 36.81 | 1,088 | 0.46 | 0.32 | 59.5 |
| 4/15/2015 13:41:57 | 41.34 | 37.14 | 1,088 | 0.46 | 0.32 | 59.5 |
| 4/15/2015 13:41:57 | 41.67 | 37.47 | 1,069 | 0.46 | 0.32 | 58.5 |
| 4/15/2015 13:41:57 | 41.99 | 37.79 | 1,069 | 0.46 | 0.32 | 58.5 |
| 4/15/2015 13:41:57 | 42.32 | 38.12 | 1,071 | 0.46 | 0.32 | 58.6 |
| 4/15/2015 13:41:58 | 42.65 | 38.45 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:41:58 | 42.98 | 38.78 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:41:58 | 43.31 | 39.11 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:41:59 | 43.64 | 39.44 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:41:59 | 43.96 | 39.76 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:41:59 | 44.29 | 40.09 | 1,077 | 0.46 | 0.32 | 58.9 |
| 4/15/2015 13:42:00 | 44.62 | 40.42 | 1,077 | 0.46 | 0.32 | 58.9 |
| 4/15/2015 13:42:00 | 44.95 | 40.75 | 1,098 | 0.46 | 0.32 | 60.0 |
| 4/15/2015 13:42:00 | 45.28 | 41.08 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 13:42:01 | 45.60 | 41.40 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 13:42:01 | 45.93 | 41.73 | 1,075 | 0.46 | 0.32 | 58.8 |
| 4/15/2015 13:42:02 | 46.26 | 42.06 | 1,098 | 0.48 | 0.32 | 60.0 |
| 4/15/2015 13:42:02 | 46.59 | 42.39 | 1,098 | 0.48 | 0.32 | 60.0 |
| 4/15/2015 13:42:02 | 46.92 | 42.72 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:42:03 | 47.24 | 43.04 | 1,079 | 0.46 | 0.32 | 59.0 |
| 4/15/2015 13:42:03 | 47.57 | 43.37 | 1,069 | 0.46 | 0.33 | 58.5 |
| 4/15/2015 13:42:03 | 47.90 | 43.70 | 1,069 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:42:04 | 48.23 | 44.03 | 1,069 | 0.45 | 0.32 | 58.5 |
| 4/15/2015 13:42:04 | 48.56 | 44.36 | 1,073 | 0.46 | 0.32 | 58.7 |
| 4/15/2015 13:42:04 | 48.88 | 44.68 | 1,071 | 0.51 | 0.51 | 58.5 |
| 4/15/2015 13:42:42 | 49.21 | 45.01 | 26 | 5.14 | 0.49 | 1.4 |
| 4/15/2015 13:42:53 | 49.54 | 45.34 | 64 | 4.87 | 0.52 | 3.5 |
| 4/15/2015 13:42:59 | 49.87 | 45.67 | 55 | 4.69 | 0.52 | 3.0 |
| 4/15/2015 13:43:12 | 50.20 | 46.00 | 43 | 5.04 | 0.51 | 2.4 |
| 4/15/2015 13:43:28 | 50.53 | 46.33 | 0 | 4.81 | 0.50 | 0.0 |
| 4/15/2015 13:43:39 | 50.85 | 46.65 | 35 | 4.83 | 0.49 | 1.9 |
| 4/15/2015 13:44:22 | 51.05 | 46.85 | 17 | 3.94 | 0.48 | 0.9 |

## A66 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:38:57

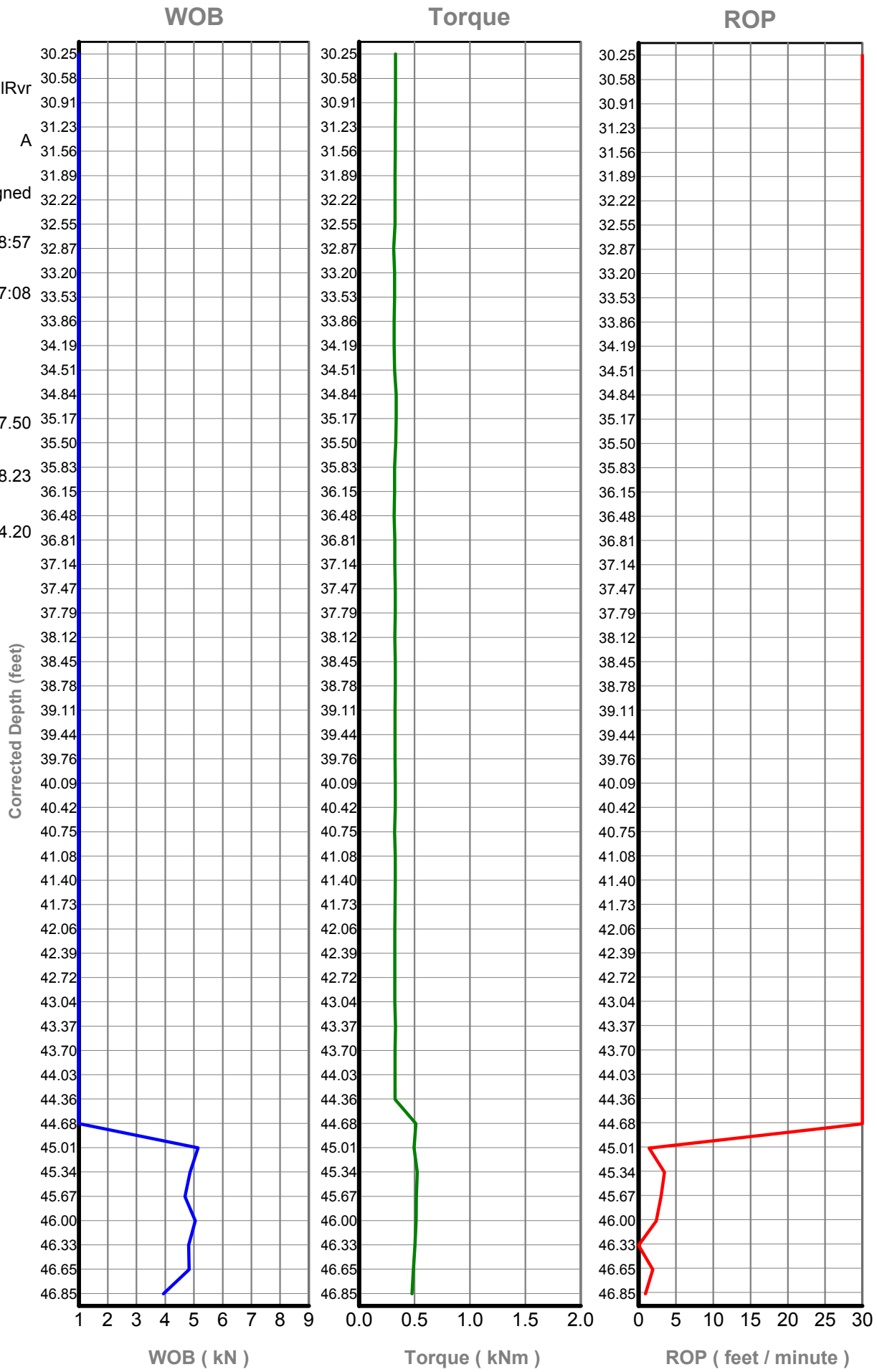
**End Date:**
4/15/2015 13:47:08

**Operator Note:**
'4.2 Auto Complete'

**Northing:**
371,237.50

**Easting:**
259,948.23

**Tide (feet):**
4.20



## Hole: A67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 13:39:54 | 34.45 | 30.15 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:39:54 | 34.78 | 30.48 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:39:55 | 35.11 | 30.81 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:39:55 | 35.43 | 31.13 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:39:55 | 35.76 | 31.46 | 844 | 0.29 | 0.42 | 46.2 |
| 4/16/2015 13:39:56 | 36.09 | 31.79 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:39:56 | 36.42 | 32.12 | 840 | 0.29 | 0.42 | 45.9 |
| 4/16/2015 13:39:57 | 36.75 | 32.45 | 840 | 0.29 | 0.42 | 45.9 |
| 4/16/2015 13:39:57 | 37.07 | 32.77 | 840 | 0.29 | 0.42 | 45.9 |
| 4/16/2015 13:39:57 | 37.40 | 33.10 | 838 | 0.29 | 0.42 | 45.8 |
| 4/16/2015 13:39:58 | 37.73 | 33.43 | 843 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 13:39:58 | 38.06 | 33.76 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:39:59 | 38.39 | 34.09 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:00 | 38.71 | 34.41 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:00 | 39.04 | 34.74 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:00 | 39.37 | 35.07 | 848 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:01 | 39.70 | 35.40 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:01 | 40.03 | 35.73 | 833 | 0.29 | 0.42 | 45.6 |
| 4/16/2015 13:40:02 | 40.35 | 36.05 | 839 | 0.29 | 0.42 | 45.9 |
| 4/16/2015 13:40:02 | 40.68 | 36.38 | 841 | 0.29 | 0.42 | 46.0 |
| 4/16/2015 13:40:03 | 41.01 | 36.71 | 841 | 0.29 | 0.42 | 46.0 |
| 4/16/2015 13:40:03 | 41.34 | 37.04 | 836 | 0.29 | 0.42 | 45.7 |
| 4/16/2015 13:40:03 | 41.67 | 37.37 | 841 | 0.29 | 0.42 | 46.0 |
| 4/16/2015 13:40:04 | 41.99 | 37.69 | 845 | 0.29 | 0.42 | 46.2 |
| 4/16/2015 13:40:04 | 42.32 | 38.02 | 843 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 13:40:05 | 42.65 | 38.35 | 843 | 0.29 | 0.42 | 46.1 |
| 4/16/2015 13:40:05 | 42.98 | 38.68 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:05 | 43.31 | 39.01 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:06 | 43.64 | 39.34 | 846 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:06 | 43.96 | 39.66 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:07 | 44.29 | 39.99 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:07 | 44.62 | 40.32 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:07 | 44.95 | 40.65 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:40:08 | 45.28 | 40.98 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:08 | 45.60 | 41.30 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:09 | 45.93 | 41.63 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:09 | 46.26 | 41.96 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:09 | 46.59 | 42.29 | 849 | 0.29 | 0.42 | 46.4 |
| 4/16/2015 13:40:10 | 46.92 | 42.62 | 844 | 0.29 | 0.42 | 46.2 |
| 4/16/2015 13:40:11 | 47.24 | 42.94 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:40:11 | 47.57 | 43.27 | 847 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:12 | 47.90 | 43.60 | 847 | 0.29 | 0.42 | 46.3 |
| 4/16/2015 13:40:12 | 48.23 | 43.93 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:40:12 | 48.56 | 44.26 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:40:13 | 48.88 | 44.58 | 852 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 13:40:13 | 49.21 | 44.91 | 835 | 0.29 | 0.42 | 45.6 |
| 4/16/2015 13:40:14 | 49.54 | 45.24 | 835 | 0.29 | 0.42 | 45.6 |
| 4/16/2015 13:40:14 | 49.87 | 45.57 | 835 | 0.29 | 0.42 | 45.6 |
| 4/16/2015 13:40:14 | 50.20 | 45.90 | 841 | 0.29 | 0.42 | 46.0 |
| 4/16/2015 13:40:15 | 50.53 | 46.23 | 826 | 0.29 | 0.42 | 45.1 |
| 4/16/2015 13:40:16 | 50.85 | 46.55 | 826 | 0.29 | 0.42 | 45.1 |
| 4/16/2015 13:40:35 | 51.18 | 46.88 | 32 | 0.29 | 0.42 | 1.8 |
| 4/16/2015 13:40:39 | 51.51 | 47.21 | 77 | 0.29 | 0.42 | 4.2 |
| 4/16/2015 13:40:40 | 51.84 | 47.54 | 177 | 0.29 | 0.42 | 9.7 |
| 4/16/2015 13:40:41 | 52.17 | 47.87 | 254 | 0.29 | 0.42 | 13.9 |
| 4/16/2015 13:40:43 | 52.49 | 48.19 | 300 | 0.29 | 0.42 | 16.4 |
| 4/16/2015 13:40:44 | 52.82 | 48.52 | 291 | 0.29 | 0.42 | 15.9 |
| 4/16/2015 13:40:45 | 53.15 | 48.85 | 286 | 0.29 | 0.42 | 15.6 |
| 4/16/2015 13:40:46 | 53.48 | 49.18 | 304 | 0.29 | 0.42 | 16.6 |
| 4/16/2015 13:40:47 | 53.81 | 49.51 | 362 | 0.29 | 0.42 | 19.8 |
| 4/16/2015 13:40:48 | 54.13 | 49.83 | 362 | 0.29 | 0.42 | 19.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 13:40:50 | 54.46 | 50.16 | 236 | 0.29 | 0.42 | 12.9 |
| 4/16/2015 | 13:40:51 | 54.79 | 50.49 | 246 | 0.29 | 0.42 | 13.5 |
| 4/16/2015 | 13:40:52 | 55.12 | 50.82 | 302 | 0.29 | 0.42 | 16.5 |
| 4/16/2015 | 13:40:52 | 55.45 | 51.15 | 379 | 0.29 | 0.42 | 20.7 |
| 4/16/2015 | 13:40:53 | 55.77 | 51.47 | 416 | 0.29 | 0.42 | 22.7 |
| 4/16/2015 | 13:40:55 | 56.10 | 51.80 | 363 | 0.29 | 0.42 | 19.8 |
| 4/16/2015 | 13:40:56 | 56.43 | 52.13 | 234 | 0.29 | 0.42 | 12.8 |
| 4/16/2015 | 13:40:59 | 56.76 | 52.46 | 175 | 0.29 | 0.42 | 9.6 |
| 4/16/2015 | 13:41:00 | 57.09 | 52.79 | 239 | 0.29 | 0.42 | 13.0 |
| 4/16/2015 | 13:41:02 | 57.41 | 53.11 | 242 | 0.29 | 0.42 | 13.2 |
| 4/16/2015 | 13:41:04 | 57.74 | 53.44 | 200 | 0.29 | 0.42 | 11.0 |
| 4/16/2015 | 13:41:05 | 58.07 | 53.77 | 188 | 0.29 | 0.42 | 10.3 |
| 4/16/2015 | 13:41:07 | 58.40 | 54.10 | 219 | 0.29 | 0.42 | 12.0 |
| 4/16/2015 | 13:41:08 | 58.73 | 54.43 | 195 | 0.29 | 0.42 | 10.7 |
| 4/16/2015 | 13:41:11 | 59.06 | 54.76 | 137 | 0.29 | 0.42 | 7.5 |
| 4/16/2015 | 13:41:12 | 59.38 | 55.08 | 133 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 | 13:41:14 | 59.62 | 55.32 | 187 | 0.29 | 0.42 | 10.2 |

## A67 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:37:46

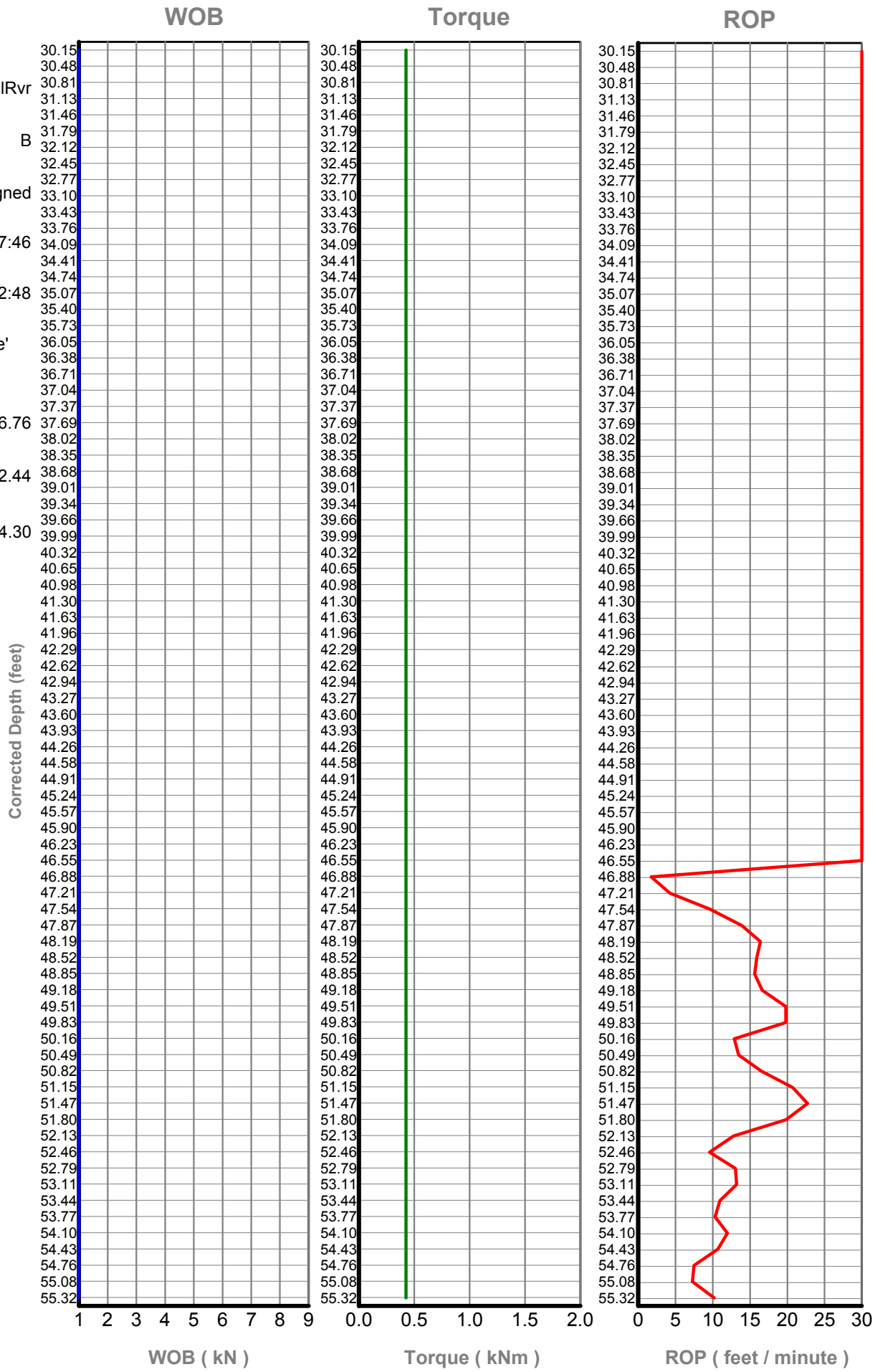
**End Date:**
4/16/2015 13:42:48

**Operator Note:**
'4.3 4.6 b Auto Complete'

**Northing:**
371,236.76

**Easting:**
260,022.44

**Tide (feet):**
4.30



## Hole: A68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 13:42:55 | 34.45 | 30.15 | 978 | 2.57 | 0.12 | 53.5 |
| 4/16/2015 13:42:56 | 34.78 | 30.48 | 966 | 2.60 | 0.12 | 52.8 |
| 4/16/2015 13:42:56 | 35.11 | 30.81 | 966 | 2.60 | 0.12 | 52.8 |
| 4/16/2015 13:42:56 | 35.43 | 31.13 | 966 | 2.61 | 0.12 | 52.8 |
| 4/16/2015 13:42:57 | 35.76 | 31.46 | 961 | 2.61 | 0.12 | 52.6 |
| 4/16/2015 13:42:57 | 36.09 | 31.79 | 961 | 2.61 | 0.12 | 52.6 |
| 4/16/2015 13:42:57 | 36.42 | 32.12 | 972 | 2.62 | 0.12 | 53.2 |
| 4/16/2015 13:42:58 | 36.75 | 32.45 | 960 | 2.60 | 0.12 | 52.5 |
| 4/16/2015 13:42:58 | 37.07 | 32.77 | 963 | 2.61 | 0.12 | 52.6 |
| 4/16/2015 13:42:59 | 37.40 | 33.10 | 963 | 2.61 | 0.12 | 52.6 |
| 4/16/2015 13:42:59 | 37.73 | 33.43 | 960 | 2.61 | 0.11 | 52.5 |
| 4/16/2015 13:42:59 | 38.06 | 33.76 | 965 | 2.60 | 0.12 | 52.8 |
| 4/16/2015 13:43:00 | 38.39 | 34.09 | 965 | 2.60 | 0.12 | 52.8 |
| 4/16/2015 13:43:00 | 38.71 | 34.41 | 962 | 2.61 | 0.12 | 52.6 |
| 4/16/2015 13:43:00 | 39.04 | 34.74 | 965 | 2.58 | 0.12 | 52.8 |
| 4/16/2015 13:43:01 | 39.37 | 35.07 | 963 | 2.63 | 0.12 | 52.6 |
| 4/16/2015 13:43:01 | 39.70 | 35.40 | 963 | 2.63 | 0.12 | 52.6 |
| 4/16/2015 13:43:01 | 40.03 | 35.73 | 965 | 2.61 | 0.13 | 52.8 |
| 4/16/2015 13:43:02 | 40.35 | 36.05 | 963 | 2.61 | 0.13 | 52.6 |
| 4/16/2015 13:43:02 | 40.68 | 36.38 | 963 | 2.61 | 0.13 | 52.6 |
| 4/16/2015 13:43:02 | 41.01 | 36.71 | 966 | 2.61 | 0.12 | 52.8 |
| 4/16/2015 13:43:03 | 41.34 | 37.04 | 957 | 2.61 | 0.13 | 52.3 |
| 4/16/2015 13:43:03 | 41.67 | 37.37 | 966 | 2.61 | 0.11 | 52.8 |
| 4/16/2015 13:43:04 | 41.99 | 37.69 | 966 | 2.61 | 0.11 | 52.8 |
| 4/16/2015 13:43:04 | 42.32 | 38.02 | 954 | 2.58 | 0.13 | 52.2 |
| 4/16/2015 13:43:04 | 42.65 | 38.35 | 960 | 2.61 | 0.12 | 52.5 |
| 4/16/2015 13:43:05 | 42.98 | 38.68 | 960 | 2.61 | 0.12 | 52.5 |
| 4/16/2015 13:43:05 | 43.31 | 39.01 | 960 | 2.63 | 0.13 | 52.5 |
| 4/16/2015 13:43:05 | 43.64 | 39.34 | 963 | 2.61 | 0.12 | 52.7 |
| 4/16/2015 13:43:06 | 43.96 | 39.66 | 960 | 2.63 | 0.13 | 52.5 |
| 4/16/2015 13:43:07 | 44.29 | 39.99 | 960 | 2.63 | 0.13 | 52.5 |
| 4/16/2015 13:43:07 | 44.62 | 40.32 | 966 | 2.61 | 0.12 | 52.8 |
| 4/16/2015 13:43:07 | 44.95 | 40.65 | 960 | 2.59 | 0.13 | 52.5 |
| 4/16/2015 13:43:08 | 45.28 | 40.98 | 960 | 2.59 | 0.13 | 52.5 |
| 4/16/2015 13:43:08 | 45.60 | 41.30 | 960 | 2.63 | 0.13 | 52.5 |
| 4/16/2015 13:43:08 | 45.93 | 41.63 | 960 | 2.61 | 0.12 | 52.5 |
| 4/16/2015 13:43:09 | 46.26 | 41.96 | 960 | 2.57 | 0.13 | 52.5 |
| 4/16/2015 13:43:09 | 46.59 | 42.29 | 960 | 2.57 | 0.13 | 52.5 |
| 4/16/2015 13:43:09 | 46.92 | 42.62 | 960 | 2.62 | 0.13 | 52.5 |
| 4/16/2015 13:43:10 | 47.24 | 42.94 | 963 | 2.61 | 0.13 | 52.6 |
| 4/16/2015 13:43:10 | 47.57 | 43.27 | 963 | 2.61 | 0.13 | 52.6 |
| 4/16/2015 13:43:10 | 47.90 | 43.60 | 960 | 2.63 | 0.12 | 52.5 |
| 4/16/2015 13:43:11 | 48.23 | 43.93 | 957 | 2.67 | 0.12 | 52.3 |
| 4/16/2015 13:43:55 | 48.56 | 44.26 | 71 | 2.79 | 0.88 | 3.9 |
| 4/16/2015 13:43:56 | 48.88 | 44.58 | 168 | 2.81 | 1.03 | 9.2 |
| 4/16/2015 13:43:57 | 49.21 | 44.91 | 242 | 2.82 | 1.08 | 13.2 |
| 4/16/2015 13:43:58 | 49.54 | 45.24 | 353 | 2.86 | 1.19 | 19.3 |
| 4/16/2015 13:43:59 | 49.87 | 45.57 | 353 | 2.86 | 1.20 | 19.3 |
| 4/16/2015 13:44:00 | 50.20 | 45.90 | 335 | 2.85 | 1.12 | 18.3 |
| 4/16/2015 13:44:01 | 50.53 | 46.23 | 327 | 2.83 | 1.11 | 17.9 |
| 4/16/2015 13:44:02 | 50.85 | 46.55 | 338 | 2.84 | 1.20 | 18.5 |
| 4/16/2015 13:44:03 | 51.18 | 46.88 | 351 | 2.80 | 1.12 | 19.2 |
| 4/16/2015 13:44:04 | 51.51 | 47.21 | 366 | 2.82 | 1.09 | 20.0 |
| 4/16/2015 13:44:05 | 51.84 | 47.54 | 360 | 2.80 | 0.92 | 19.7 |
| 4/16/2015 13:44:06 | 52.17 | 47.87 | 371 | 2.81 | 0.95 | 20.3 |
| 4/16/2015 13:44:07 | 52.49 | 48.19 | 391 | 2.79 | 0.86 | 21.4 |
| 4/16/2015 13:44:08 | 52.82 | 48.52 | 398 | 2.77 | 0.90 | 21.7 |
| 4/16/2015 13:44:09 | 53.15 | 48.85 | 379 | 2.78 | 0.97 | 20.7 |
| 4/16/2015 13:44:10 | 53.48 | 49.18 | 350 | 2.79 | 0.98 | 19.1 |
| 4/16/2015 13:44:11 | 53.81 | 49.51 | 328 | 2.80 | 0.98 | 18.0 |
| 4/16/2015 13:44:16 | 54.13 | 49.83 | 19 | 2.77 | 1.09 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 13:44:16 | 54.46 | 50.16 | 139 | 2.76 | 1.08 | 7.6 |
| 4/16/2015 | 13:44:17 | 54.79 | 50.49 | 382 | 2.78 | 1.14 | 20.9 |
| 4/16/2015 | 13:44:18 | 55.12 | 50.82 | 479 | 2.82 | 1.26 | 26.2 |
| 4/16/2015 | 13:44:19 | 55.45 | 51.15 | 553 | 2.81 | 1.14 | 30.3 |
| 4/16/2015 | 13:44:20 | 55.77 | 51.47 | 480 | 2.84 | 1.31 | 26.2 |
| 4/16/2015 | 13:44:21 | 56.10 | 51.80 | 440 | 2.80 | 1.22 | 24.0 |
| 4/16/2015 | 13:44:21 | 56.43 | 52.13 | 437 | 2.78 | 1.16 | 23.9 |
| 4/16/2015 | 13:44:22 | 56.76 | 52.46 | 453 | 2.76 | 1.17 | 24.8 |
| 4/16/2015 | 13:44:23 | 57.09 | 52.79 | 472 | 2.78 | 1.45 | 25.8 |
| 4/16/2015 | 13:44:23 | 57.41 | 53.11 | 512 | 2.75 | 1.08 | 28.0 |
| 4/16/2015 | 13:44:24 | 57.74 | 53.44 | 542 | 2.75 | 1.13 | 29.6 |
| 4/16/2015 | 13:44:24 | 58.07 | 53.77 | 559 | 2.74 | 1.10 | 30.6 |
| 4/16/2015 | 13:44:25 | 58.40 | 54.10 | 581 | 2.54 | 1.08 | 31.8 |
| 4/16/2015 | 13:44:25 | 58.73 | 54.43 | 628 | 2.73 | 1.07 | 34.3 |
| 4/16/2015 | 13:44:26 | 59.06 | 54.76 | 639 | 2.77 | 1.13 | 34.9 |
| 4/16/2015 | 13:44:26 | 59.38 | 55.08 | 651 | 2.74 | 1.11 | 35.6 |
| 4/16/2015 | 13:44:27 | 59.58 | 55.28 | 653 | 2.82 | 1.26 | 35.7 |

## A68 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:41:28

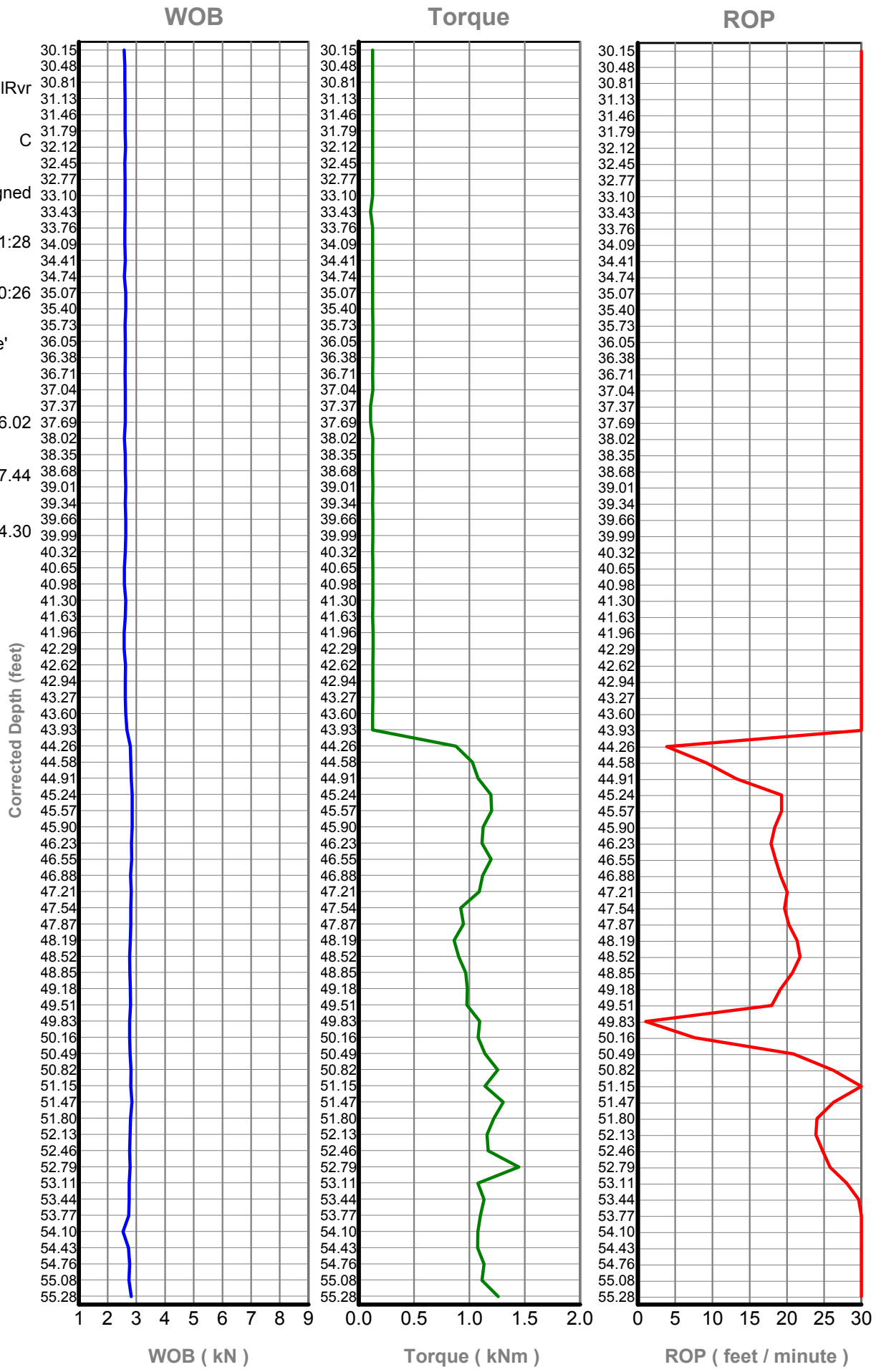
**End Date:**
4/16/2015 13:50:26

**Operator Note:**
'4.3 4.6 c Auto Complete'

**Northing:**
371,236.02

**Easting:**
260,097.44

**Tide (feet):**
4.30



## Hole: A69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:44:59 | 36.42 | 30.32 | 1,226 | 1.64 | 0.34 | 67.0 |
| 4/17/2015 11:44:59 | 36.75 | 30.65 | 1,221 | 1.64 | 0.34 | 66.8 |
| 4/17/2015 11:45:00 | 37.07 | 30.97 | 1,221 | 1.64 | 0.34 | 66.8 |
| 4/17/2015 11:45:00 | 37.40 | 31.30 | 1,228 | 1.64 | 0.34 | 67.2 |
| 4/17/2015 11:45:00 | 37.73 | 31.63 | 1,228 | 1.63 | 0.34 | 67.2 |
| 4/17/2015 11:45:01 | 38.06 | 31.96 | 1,228 | 1.63 | 0.34 | 67.2 |
| 4/17/2015 11:45:01 | 38.39 | 32.29 | 1,231 | 1.65 | 0.34 | 67.3 |
| 4/17/2015 11:45:01 | 38.71 | 32.61 | 1,231 | 1.65 | 0.34 | 67.3 |
| 4/17/2015 11:45:01 | 39.04 | 32.94 | 1,220 | 1.63 | 0.34 | 66.7 |
| 4/17/2015 11:45:02 | 39.37 | 33.27 | 1,220 | 1.63 | 0.34 | 66.7 |
| 4/17/2015 11:45:02 | 39.70 | 33.60 | 1,242 | 1.63 | 0.35 | 67.9 |
| 4/17/2015 11:45:02 | 40.03 | 33.93 | 1,242 | 1.63 | 0.35 | 67.9 |
| 4/17/2015 11:45:02 | 40.35 | 34.25 | 1,242 | 1.63 | 0.34 | 67.9 |
| 4/17/2015 11:45:03 | 40.68 | 34.58 | 1,236 | 1.64 | 0.34 | 67.6 |
| 4/17/2015 11:45:03 | 41.01 | 34.91 | 1,236 | 1.64 | 0.34 | 67.6 |
| 4/17/2015 11:45:03 | 41.34 | 35.24 | 1,229 | 1.62 | 0.35 | 67.2 |
| 4/17/2015 11:45:04 | 41.67 | 35.57 | 1,229 | 1.62 | 0.35 | 67.2 |
| 4/17/2015 11:45:04 | 41.99 | 35.89 | 1,250 | 1.64 | 0.35 | 68.4 |
| 4/17/2015 11:45:05 | 42.32 | 36.22 | 1,250 | 1.64 | 0.35 | 68.4 |
| 4/17/2015 11:45:05 | 42.65 | 36.55 | 1,229 | 1.64 | 0.34 | 67.2 |
| 4/17/2015 11:45:05 | 42.98 | 36.88 | 1,229 | 1.64 | 0.34 | 67.2 |
| 4/17/2015 11:45:05 | 43.31 | 37.21 | 1,214 | 1.64 | 0.34 | 66.4 |
| 4/17/2015 11:45:06 | 43.64 | 37.54 | 1,225 | 1.62 | 0.34 | 67.0 |
| 4/17/2015 11:45:06 | 43.96 | 37.86 | 1,225 | 1.62 | 0.34 | 67.0 |
| 4/17/2015 11:45:06 | 44.29 | 38.19 | 1,235 | 1.64 | 0.34 | 67.5 |
| 4/17/2015 11:45:07 | 44.62 | 38.52 | 1,235 | 1.64 | 0.34 | 67.5 |
| 4/17/2015 11:45:07 | 44.95 | 38.85 | 1,217 | 1.68 | 0.35 | 66.6 |
| 4/17/2015 11:45:07 | 45.28 | 39.18 | 1,217 | 1.68 | 0.35 | 66.6 |
| 4/17/2015 11:45:07 | 45.60 | 39.50 | 1,233 | 1.63 | 0.34 | 67.4 |
| 4/17/2015 11:45:08 | 45.93 | 39.83 | 1,233 | 1.63 | 0.34 | 67.4 |
| 4/17/2015 11:45:08 | 46.26 | 40.16 | 1,237 | 1.62 | 0.34 | 67.6 |
| 4/17/2015 11:45:08 | 46.59 | 40.49 | 1,232 | 1.64 | 0.34 | 67.4 |
| 4/17/2015 11:45:09 | 46.92 | 40.82 | 1,232 | 1.64 | 0.34 | 67.4 |
| 4/17/2015 11:45:09 | 47.24 | 41.14 | 1,226 | 2.18 | 0.34 | 67.1 |
| 4/17/2015 11:45:09 | 47.57 | 41.47 | 1,226 | 2.18 | 0.34 | 67.1 |
| 4/17/2015 11:45:09 | 47.90 | 41.80 | 1,241 | 1.74 | 0.35 | 67.9 |
| 4/17/2015 11:45:10 | 48.23 | 42.13 | 1,241 | 1.74 | 0.35 | 67.9 |
| 4/17/2015 11:45:10 | 48.56 | 42.46 | 1,226 | 1.71 | 0.34 | 67.0 |
| 4/17/2015 11:45:10 | 48.88 | 42.78 | 1,226 | 1.71 | 0.34 | 67.0 |
| 4/17/2015 11:45:10 | 49.21 | 43.11 | 1,231 | 1.73 | 0.34 | 67.3 |
| 4/17/2015 11:45:11 | 49.54 | 43.44 | 1,236 | 1.71 | 0.35 | 67.6 |
| 4/17/2015 11:45:11 | 49.87 | 43.77 | 1,236 | 1.71 | 0.35 | 67.6 |
| 4/17/2015 11:45:11 | 50.20 | 44.10 | 1,231 | 1.70 | 0.34 | 67.3 |
| 4/17/2015 11:45:12 | 50.53 | 44.43 | 1,231 | 1.70 | 0.34 | 67.3 |
| 4/17/2015 11:45:12 | 50.85 | 44.75 | 1,221 | 1.72 | 0.35 | 66.8 |
| 4/17/2015 11:45:12 | 51.18 | 45.08 | 1,221 | 1.72 | 0.35 | 66.8 |
| 4/17/2015 11:45:12 | 51.51 | 45.41 | 1,223 | 1.69 | 0.36 | 66.9 |
| 4/17/2015 11:45:13 | 51.84 | 45.74 | 1,197 | 1.70 | 0.37 | 65.5 |
| 4/17/2015 11:45:13 | 52.17 | 46.07 | 1,197 | 1.70 | 0.37 | 65.5 |
| 4/17/2015 11:45:13 | 52.49 | 46.39 | 1,156 | 1.69 | 0.37 | 63.2 |
| 4/17/2015 11:45:14 | 52.82 | 46.72 | 1,094 | 3.07 | 0.38 | 59.8 |
| 4/17/2015 11:45:19 | 53.15 | 47.05 | 51 | 3.17 | 0.48 | 2.8 |
| 4/17/2015 11:45:21 | 53.48 | 47.38 | 241 | 3.71 | 0.46 | 13.2 |
| 4/17/2015 11:45:22 | 53.81 | 47.71 | 239 | 3.88 | 0.48 | 13.1 |
| 4/17/2015 11:45:25 | 54.13 | 48.03 | 196 | 3.48 | 0.47 | 10.7 |
| 4/17/2015 11:45:26 | 54.46 | 48.36 | 197 | 3.62 | 0.46 | 10.8 |
| 4/17/2015 11:45:27 | 54.79 | 48.69 | 224 | 3.63 | 0.45 | 12.2 |
| 4/17/2015 11:45:29 | 55.12 | 49.02 | 218 | 4.02 | 0.46 | 11.9 |
| 4/17/2015 11:45:32 | 55.45 | 49.35 | 141 | 4.08 | 0.49 | 7.7 |
| 4/17/2015 11:45:36 | 55.77 | 49.67 | 91 | 3.67 | 0.48 | 5.0 |
| 4/17/2015 11:45:38 | 56.10 | 50.00 | 155 | 3.60 | 0.16 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:45:39 | 56.43 | 50.33 | 233 | 3.58 | 0.45 | 12.7 |
| 4/17/2015 | 11:45:41 | 56.76 | 50.66 | 223 | 3.87 | 0.44 | 12.2 |
| 4/17/2015 | 11:45:42 | 57.09 | 50.99 | 230 | 3.84 | 0.46 | 12.6 |
| 4/17/2015 | 11:45:44 | 57.41 | 51.31 | 255 | 4.05 | 0.46 | 13.9 |
| 4/17/2015 | 11:45:45 | 57.74 | 51.64 | 222 | 3.76 | 0.45 | 12.1 |
| 4/17/2015 | 11:45:47 | 58.07 | 51.97 | 227 | 3.66 | 0.48 | 12.4 |
| 4/17/2015 | 11:45:49 | 58.40 | 52.30 | 205 | 3.57 | 0.47 | 11.2 |
| 4/17/2015 | 11:45:51 | 58.73 | 52.63 | 146 | 3.75 | 0.49 | 8.0 |
| 4/17/2015 | 11:45:53 | 59.06 | 52.96 | 157 | 3.43 | 0.47 | 8.6 |
| 4/17/2015 | 11:45:56 | 59.38 | 53.28 | 154 | 3.46 | 0.47 | 8.4 |
| 4/17/2015 | 11:45:58 | 59.71 | 53.61 | 167 | 3.55 | 0.50 | 9.1 |
| 4/17/2015 | 11:46:02 | 60.04 | 53.94 | 99 | 3.45 | 0.50 | 5.4 |
| 4/17/2015 | 11:46:05 | 60.37 | 54.27 | 108 | 3.27 | 0.47 | 5.9 |
| 4/17/2015 | 11:46:08 | 60.70 | 54.60 | 127 | 3.23 | 0.49 | 7.0 |
| 4/17/2015 | 11:46:11 | 61.02 | 54.92 | 133 | 2.88 | 0.21 | 7.3 |
| 4/17/2015 | 11:46:17 | 61.15 | 55.05 | 47 | 2.87 | 0.20 | 2.6 |

## A69 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:43:21

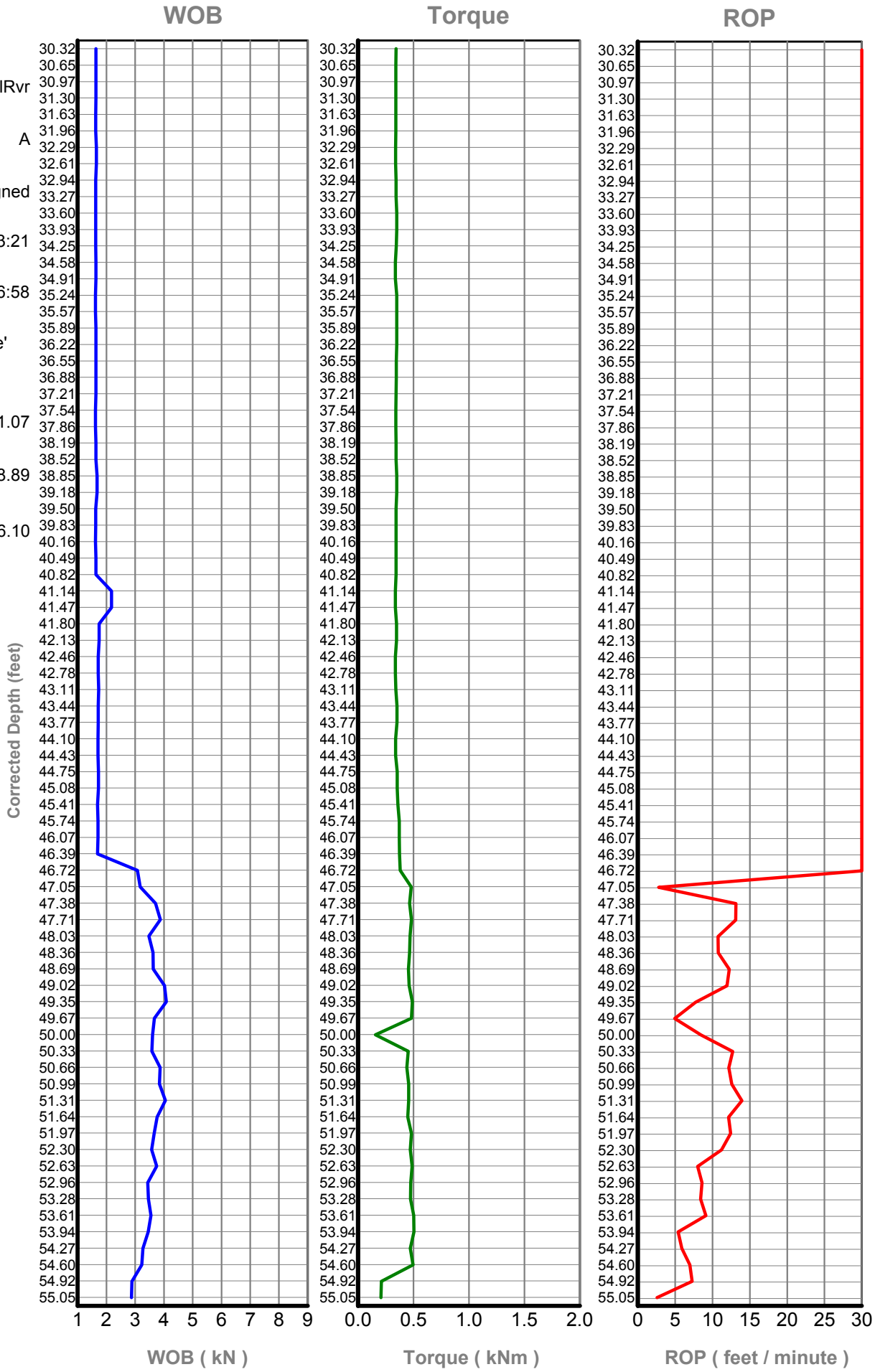
**End Date:**
4/17/2015 11:46:58

**Operator Note:**
'6.1 6.0 a Auto Complete'

**Northing:**
371,191.07

**Easting:**
259,048.89

**Tide (feet):**
6.10



## Hole: A7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:08:29 | 32.81 | 30.01 | 1,101 | 2.90 | 0.40 | 60.2 |
| 4/15/2015 15:08:29 | 33.14 | 30.34 | 1,101 | 2.90 | 0.40 | 60.2 |
| 4/15/2015 15:08:29 | 33.46 | 30.66 | 1,102 | 2.93 | 0.40 | 60.3 |
| 4/15/2015 15:08:30 | 33.79 | 30.99 | 1,105 | 2.90 | 0.40 | 60.4 |
| 4/15/2015 15:08:30 | 34.12 | 31.32 | 1,105 | 2.90 | 0.40 | 60.4 |
| 4/15/2015 15:08:30 | 34.45 | 31.65 | 1,105 | 2.91 | 0.40 | 60.4 |
| 4/15/2015 15:08:31 | 34.78 | 31.98 | 1,105 | 2.91 | 0.40 | 60.4 |
| 4/15/2015 15:08:31 | 35.11 | 32.31 | 1,108 | 2.90 | 0.41 | 60.6 |
| 4/15/2015 15:08:31 | 35.43 | 32.63 | 1,118 | 2.88 | 0.40 | 61.1 |
| 4/15/2015 15:08:32 | 35.76 | 32.96 | 1,118 | 2.88 | 0.40 | 61.1 |
| 4/15/2015 15:08:32 | 36.09 | 33.29 | 1,104 | 2.88 | 0.40 | 60.4 |
| 4/15/2015 15:08:32 | 36.42 | 33.62 | 1,097 | 3.66 | 0.47 | 60.0 |
| 4/15/2015 15:08:33 | 36.75 | 33.95 | 815 | 3.98 | 0.53 | 44.6 |
| 4/15/2015 15:09:03 | 37.07 | 34.27 | 18 | 3.71 | 0.45 | 1.0 |
| 4/15/2015 15:09:10 | 37.40 | 34.60 | 23 | 5.61 | 0.43 | 1.3 |
| 4/15/2015 15:09:11 | 37.73 | 34.93 | 112 | 4.48 | 0.45 | 6.1 |
| 4/15/2015 15:09:13 | 38.06 | 35.26 | 179 | 3.33 | 0.43 | 9.8 |
| 4/15/2015 15:09:13 | 38.39 | 35.59 | 243 | 3.73 | 0.43 | 13.3 |
| 4/15/2015 15:09:15 | 38.71 | 35.91 | 251 | 3.11 | 0.40 | 13.7 |
| 4/15/2015 15:09:16 | 39.04 | 36.24 | 292 | 2.55 | 0.38 | 15.9 |
| 4/15/2015 15:09:17 | 39.37 | 36.57 | 271 | 2.87 | 0.11 | 14.8 |
| 4/15/2015 15:09:20 | 39.70 | 36.90 | 91 | 3.46 | 0.42 | 5.0 |
| 4/15/2015 15:09:22 | 40.03 | 37.23 | 238 | 2.82 | 0.40 | 13.0 |
| 4/15/2015 15:09:25 | 40.35 | 37.55 | 94 | 4.65 | 0.46 | 5.1 |
| 4/15/2015 15:09:35 | 40.68 | 37.88 | 81 | 4.07 | 0.42 | 4.4 |
| 4/15/2015 15:09:39 | 41.01 | 38.21 | 100 | 4.70 | 0.45 | 5.5 |
| 4/15/2015 15:09:55 | 41.34 | 38.54 | 65 | 4.52 | 0.48 | 3.6 |
| 4/15/2015 15:10:05 | 41.67 | 38.87 | 51 | 4.26 | 0.47 | 2.8 |
| 4/15/2015 15:10:10 | 41.99 | 39.19 | 26 | 4.49 | 0.59 | 1.4 |
| 4/15/2015 15:10:16 | 42.32 | 39.52 | 92 | 4.38 | 0.41 | 5.0 |
| 4/15/2015 15:10:17 | 42.65 | 39.85 | 197 | 4.27 | 0.40 | 10.8 |
| 4/15/2015 15:10:19 | 42.98 | 40.18 | 220 | 4.74 | 0.45 | 12.0 |
| 4/15/2015 15:10:20 | 43.31 | 40.51 | 210 | 4.10 | 0.43 | 11.5 |
| 4/15/2015 15:10:23 | 43.64 | 40.84 | 131 | 3.78 | 0.42 | 7.2 |
| 4/15/2015 15:10:29 | 43.96 | 41.16 | 40 | 4.17 | 0.44 | 2.2 |
| 4/15/2015 15:10:37 | 44.29 | 41.49 | 62 | 3.68 | 0.37 | 3.4 |
| 4/15/2015 15:10:42 | 44.62 | 41.82 | 116 | 4.02 | 0.42 | 6.3 |
| 4/15/2015 15:10:46 | 44.95 | 42.15 | 81 | 4.03 | 0.40 | 4.4 |
| 4/15/2015 15:10:51 | 45.28 | 42.48 | 75 | 4.19 | 0.42 | 4.1 |
| 4/15/2015 15:10:58 | 45.60 | 42.80 | 43 | 4.49 | 0.42 | 2.4 |
| 4/15/2015 15:13:21 | 45.93 | 43.13 | 17 | 5.02 | 0.44 | 0.9 |
| 4/15/2015 15:16:33 | 46.26 | 43.46 | 0 | 3.92 | 0.43 | 0.0 |
| 4/15/2015 15:19:15 | 46.49 | 43.69 | 0 | 3.55 | 0.39 | 0.0 |

## A7 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 15:07:00

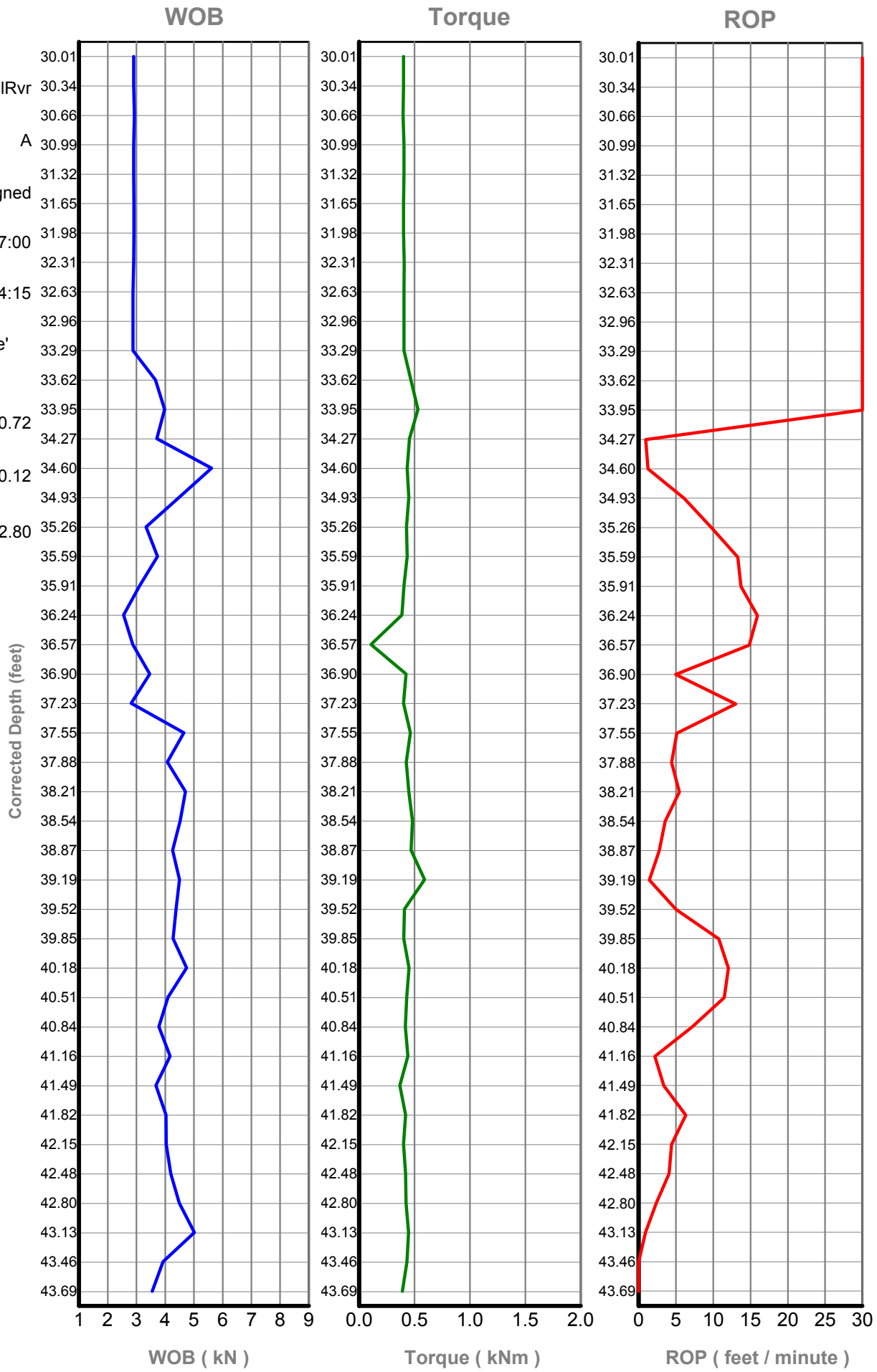
**End Date:**
4/15/2015 15:24:15

**Operator Note:**
'2.8 3.2 a Auto Complete'

**Northing:**
371,610.72

**Easting:**
259,960.12

**Tide (feet):**
2.80



## Hole: A70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:43:40 | 36.42 | 30.32 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:43:41 | 36.75 | 30.65 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:43:41 | 37.07 | 30.97 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:43:41 | 37.40 | 31.30 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:43:42 | 37.73 | 31.63 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:43:42 | 38.06 | 31.96 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:43:43 | 38.39 | 32.29 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:43:43 | 38.71 | 32.61 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:43:44 | 39.04 | 32.94 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 11:43:44 | 39.37 | 33.27 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:43:44 | 39.70 | 33.60 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:45 | 40.03 | 33.93 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:45 | 40.35 | 34.25 | 998 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:45 | 40.68 | 34.58 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:46 | 41.01 | 34.91 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:46 | 41.34 | 35.24 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:46 | 41.67 | 35.57 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:43:47 | 41.99 | 35.89 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 11:43:47 | 42.32 | 36.22 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 11:43:47 | 42.65 | 36.55 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 11:43:48 | 42.98 | 36.88 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:43:48 | 43.31 | 37.21 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 11:43:48 | 43.64 | 37.54 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 11:43:49 | 43.96 | 37.86 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:43:49 | 44.29 | 38.19 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:43:49 | 44.62 | 38.52 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:50 | 44.95 | 38.85 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:50 | 45.28 | 39.18 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:50 | 45.60 | 39.50 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:51 | 45.93 | 39.83 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 11:43:51 | 46.26 | 40.16 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 11:43:52 | 46.59 | 40.49 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 11:43:52 | 46.92 | 40.82 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:52 | 47.24 | 41.14 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:53 | 47.57 | 41.47 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:53 | 47.90 | 41.80 | 998 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:54 | 48.23 | 42.13 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:54 | 48.56 | 42.46 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:43:54 | 48.88 | 42.78 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 11:43:55 | 49.21 | 43.11 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 11:43:55 | 49.54 | 43.44 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 11:43:55 | 49.87 | 43.77 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 11:43:56 | 50.20 | 44.10 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 11:43:56 | 50.53 | 44.43 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 11:43:56 | 50.85 | 44.75 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 11:43:57 | 51.18 | 45.08 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 11:43:57 | 51.51 | 45.41 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:58 | 51.84 | 45.74 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:58 | 52.17 | 46.07 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 11:43:58 | 52.49 | 46.39 | 998 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:59 | 52.82 | 46.72 | 998 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 11:43:59 | 53.15 | 47.05 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:43:59 | 53.48 | 47.38 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:44:00 | 53.81 | 47.71 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:44:00 | 54.13 | 48.03 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:44:00 | 54.46 | 48.36 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:44:01 | 54.79 | 48.69 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 11:44:01 | 55.12 | 49.02 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 11:44:19 | 55.45 | 49.35 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 11:44:21 | 55.77 | 49.67 | 162 | 0.29 | 0.42 | 8.9 |
| 4/17/2015 11:44:24 | 56.10 | 50.00 | 84 | 0.29 | 0.42 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:44:26 | 56.43 | 50.33 | 149 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 | 11:44:27 | 56.76 | 50.66 | 247 | 0.29 | 0.42 | 13.5 |
| 4/17/2015 | 11:44:30 | 57.09 | 50.99 | 183 | 0.29 | 0.42 | 10.0 |
| 4/17/2015 | 11:44:32 | 57.41 | 51.31 | 171 | 0.29 | 0.42 | 9.3 |
| 4/17/2015 | 11:44:34 | 57.74 | 51.64 | 143 | 0.29 | 0.42 | 7.8 |
| 4/17/2015 | 11:44:54 | 58.07 | 51.97 | 52 | 0.29 | 0.42 | 2.8 |
| 4/17/2015 | 11:44:58 | 58.40 | 52.30 | 72 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 | 11:45:03 | 58.73 | 52.63 | 93 | 0.29 | 0.42 | 5.1 |
| 4/17/2015 | 11:45:05 | 59.06 | 52.96 | 186 | 0.29 | 0.42 | 10.1 |
| 4/17/2015 | 11:45:07 | 59.38 | 53.28 | 172 | 0.29 | 0.42 | 9.4 |
| 4/17/2015 | 11:45:08 | 59.71 | 53.61 | 205 | 0.29 | 0.42 | 11.2 |
| 4/17/2015 | 11:45:10 | 60.04 | 53.94 | 247 | 0.29 | 0.42 | 13.5 |
| 4/17/2015 | 11:45:11 | 60.37 | 54.27 | 250 | 0.29 | 0.42 | 13.7 |
| 4/17/2015 | 11:45:12 | 60.70 | 54.60 | 253 | 0.29 | 0.42 | 13.8 |
| 4/17/2015 | 11:45:14 | 61.02 | 54.92 | 262 | 0.29 | 0.42 | 14.3 |
| 4/17/2015 | 11:45:14 | 61.06 | 54.96 | 238 | 0.29 | 0.42 | 13.0 |

## A70 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:41:45

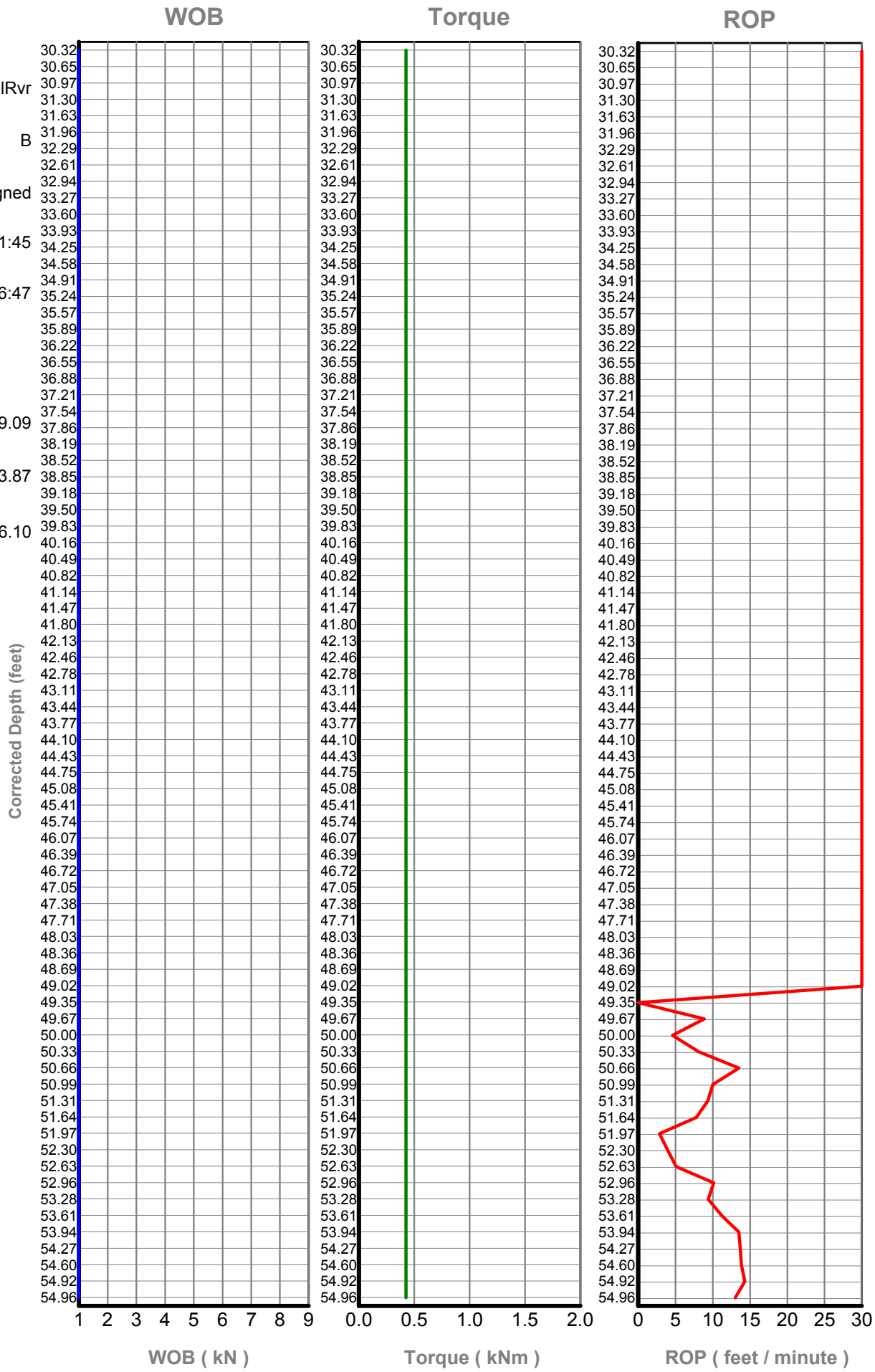
**End Date:**
4/17/2015 11:46:47

**Operator Note:**
'6.1 6.0 b No rock'

**Northing:**
371,189.09

**Easting:**
259,123.87

**Tide (feet):**
6.10



## Hole: A71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 11:45:20 | 36.42 | 30.32 | 644 | 2.20 | 0.29 | 35.2 |
| 4/17/2015 11:45:20 | 36.75 | 30.65 | 644 | 2.12 | 0.29 | 35.2 |
| 4/17/2015 11:45:21 | 37.07 | 30.97 | 648 | 1.87 | 0.29 | 35.4 |
| 4/17/2015 11:45:21 | 37.40 | 31.30 | 639 | 2.17 | 0.29 | 34.9 |
| 4/17/2015 11:45:22 | 37.73 | 31.63 | 624 | 2.16 | 0.30 | 34.1 |
| 4/17/2015 11:45:23 | 38.06 | 31.96 | 628 | 2.14 | 0.30 | 34.4 |
| 4/17/2015 11:45:23 | 38.39 | 32.29 | 616 | 2.16 | 0.29 | 33.7 |
| 4/17/2015 11:45:24 | 38.71 | 32.61 | 619 | 2.15 | 0.29 | 33.8 |
| 4/17/2015 11:45:24 | 39.04 | 32.94 | 615 | 2.14 | 0.29 | 33.6 |
| 4/17/2015 11:45:25 | 39.37 | 33.27 | 622 | 2.14 | 0.29 | 34.0 |
| 4/17/2015 11:45:25 | 39.70 | 33.60 | 616 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 11:45:26 | 40.03 | 33.93 | 619 | 2.15 | 0.30 | 33.8 |
| 4/17/2015 11:45:26 | 40.35 | 34.25 | 612 | 2.14 | 0.30 | 33.5 |
| 4/17/2015 11:45:27 | 40.68 | 34.58 | 622 | 2.14 | 0.30 | 34.0 |
| 4/17/2015 11:45:28 | 41.01 | 34.91 | 619 | 2.14 | 0.30 | 33.8 |
| 4/17/2015 11:45:29 | 41.34 | 35.24 | 616 | 2.14 | 0.30 | 33.7 |
| 4/17/2015 11:45:29 | 41.67 | 35.57 | 619 | 2.14 | 0.29 | 33.8 |
| 4/17/2015 11:45:30 | 41.99 | 35.89 | 619 | 2.14 | 0.29 | 33.8 |
| 4/17/2015 11:45:30 | 42.32 | 36.22 | 616 | 2.13 | 0.29 | 33.7 |
| 4/17/2015 11:45:31 | 42.65 | 36.55 | 609 | 2.15 | 0.29 | 33.3 |
| 4/17/2015 11:45:31 | 42.98 | 36.88 | 616 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 11:45:32 | 43.31 | 37.21 | 613 | 2.15 | 0.29 | 33.5 |
| 4/17/2015 11:45:33 | 43.64 | 37.54 | 613 | 2.15 | 0.29 | 33.5 |
| 4/17/2015 11:45:33 | 43.96 | 37.86 | 616 | 2.15 | 0.29 | 33.7 |
| 4/17/2015 11:45:34 | 44.29 | 38.19 | 613 | 2.14 | 0.29 | 33.5 |
| 4/17/2015 11:45:34 | 44.62 | 38.52 | 616 | 2.14 | 0.28 | 33.7 |
| 4/17/2015 11:45:35 | 44.95 | 38.85 | 602 | 2.14 | 0.29 | 32.9 |
| 4/17/2015 11:45:35 | 45.28 | 39.18 | 602 | 2.14 | 0.29 | 32.9 |
| 4/17/2015 11:45:36 | 45.60 | 39.50 | 608 | 2.14 | 0.29 | 33.3 |
| 4/17/2015 11:45:36 | 45.93 | 39.83 | 609 | 2.15 | 0.29 | 33.3 |
| 4/17/2015 11:45:37 | 46.26 | 40.16 | 601 | 2.15 | 0.29 | 32.9 |
| 4/17/2015 11:45:38 | 46.59 | 40.49 | 595 | 2.15 | 0.29 | 32.5 |
| 4/17/2015 11:45:39 | 46.92 | 40.82 | 611 | 2.14 | 0.29 | 33.4 |
| 4/17/2015 11:45:39 | 47.24 | 41.14 | 608 | 2.16 | 0.29 | 33.2 |
| 4/17/2015 11:45:40 | 47.57 | 41.47 | 608 | 2.15 | 0.28 | 33.2 |
| 4/17/2015 11:45:40 | 47.90 | 41.80 | 615 | 2.14 | 0.29 | 33.6 |
| 4/17/2015 11:45:41 | 48.23 | 42.13 | 622 | 2.14 | 0.29 | 34.0 |
| 4/17/2015 11:45:41 | 48.56 | 42.46 | 613 | 2.14 | 0.28 | 33.5 |
| 4/17/2015 11:45:42 | 48.88 | 42.78 | 613 | 2.14 | 0.28 | 33.5 |
| 4/17/2015 11:45:43 | 49.21 | 43.11 | 617 | 2.15 | 0.28 | 33.7 |
| 4/17/2015 11:45:43 | 49.54 | 43.44 | 610 | 2.14 | 0.28 | 33.3 |
| 4/17/2015 11:45:44 | 49.87 | 43.77 | 616 | 2.15 | 0.28 | 33.7 |
| 4/17/2015 11:45:44 | 50.20 | 44.10 | 617 | 2.14 | 0.28 | 33.7 |
| 4/17/2015 11:45:45 | 50.53 | 44.43 | 601 | 2.15 | 0.28 | 32.8 |
| 4/17/2015 11:45:45 | 50.85 | 44.75 | 601 | 2.14 | 0.28 | 32.8 |
| 4/17/2015 11:45:46 | 51.18 | 45.08 | 603 | 2.14 | 0.28 | 33.0 |
| 4/17/2015 11:45:46 | 51.51 | 45.41 | 603 | 2.14 | 0.28 | 33.0 |
| 4/17/2015 11:45:47 | 51.84 | 45.74 | 596 | 2.15 | 0.28 | 32.6 |
| 4/17/2015 11:45:48 | 52.17 | 46.07 | 598 | 2.14 | 0.28 | 32.7 |
| 4/17/2015 11:45:49 | 52.49 | 46.39 | 610 | 2.16 | 0.28 | 33.4 |
| 4/17/2015 11:45:49 | 52.82 | 46.72 | 598 | 2.19 | 0.28 | 32.7 |
| 4/17/2015 11:46:22 | 53.15 | 47.05 | 0 | 2.23 | 1.08 | 0.0 |
| 4/17/2015 11:46:23 | 53.48 | 47.38 | 114 | 2.27 | 1.16 | 6.2 |
| 4/17/2015 11:46:25 | 53.81 | 47.71 | 191 | 2.43 | 1.16 | 10.4 |
| 4/17/2015 11:46:27 | 54.13 | 48.03 | 181 | 2.27 | 1.15 | 9.9 |
| 4/17/2015 11:46:29 | 54.46 | 48.36 | 189 | 2.27 | 1.14 | 10.4 |
| 4/17/2015 11:46:32 | 54.79 | 48.69 | 139 | 2.29 | 1.16 | 7.6 |
| 4/17/2015 11:46:34 | 55.12 | 49.02 | 148 | 2.28 | 1.17 | 8.1 |
| 4/17/2015 11:46:37 | 55.45 | 49.35 | 150 | 2.27 | 1.18 | 8.2 |
| 4/17/2015 11:46:39 | 55.77 | 49.67 | 130 | 2.28 | 1.19 | 7.1 |
| 4/17/2015 11:46:43 | 56.10 | 50.00 | 118 | 2.29 | 1.18 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 11:46:46 | 56.43 | 50.33 | 116 | 2.30 | 1.17 | 6.3 |
| 4/17/2015 | 11:46:50 | 56.76 | 50.66 | 72 | 2.30 | 1.17 | 3.9 |
| 4/17/2015 | 11:46:56 | 57.09 | 50.99 | 64 | 2.30 | 1.19 | 3.5 |
| 4/17/2015 | 11:47:03 | 57.41 | 51.31 | 23 | 2.36 | 1.03 | 1.3 |
| 4/17/2015 | 11:47:06 | 57.74 | 51.64 | 138 | 2.36 | 1.18 | 7.6 |
| 4/17/2015 | 11:47:09 | 58.07 | 51.97 | 130 | 2.36 | 1.20 | 7.1 |
| 4/17/2015 | 11:47:13 | 58.40 | 52.30 | 90 | 2.36 | 1.21 | 4.9 |
| 4/17/2015 | 11:47:16 | 58.73 | 52.63 | 99 | 2.36 | 1.18 | 5.4 |
| 4/17/2015 | 11:47:20 | 59.06 | 52.96 | 107 | 2.36 | 1.18 | 5.8 |
| 4/17/2015 | 11:47:23 | 59.38 | 53.28 | 110 | 2.36 | 1.17 | 6.0 |
| 4/17/2015 | 11:47:26 | 59.71 | 53.61 | 108 | 2.37 | 1.16 | 5.9 |
| 4/17/2015 | 11:47:30 | 60.04 | 53.94 | 104 | 2.36 | 1.17 | 5.7 |
| 4/17/2015 | 11:47:33 | 60.37 | 54.27 | 124 | 2.33 | 1.13 | 6.8 |
| 4/17/2015 | 11:47:36 | 60.70 | 54.60 | 126 | 2.38 | 1.17 | 6.9 |
| 4/17/2015 | 11:47:40 | 61.02 | 54.92 | 93 | 2.25 | 1.14 | 5.1 |

## A71 - Summary

**Pattern Number:**
AreaA_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 11:43:29

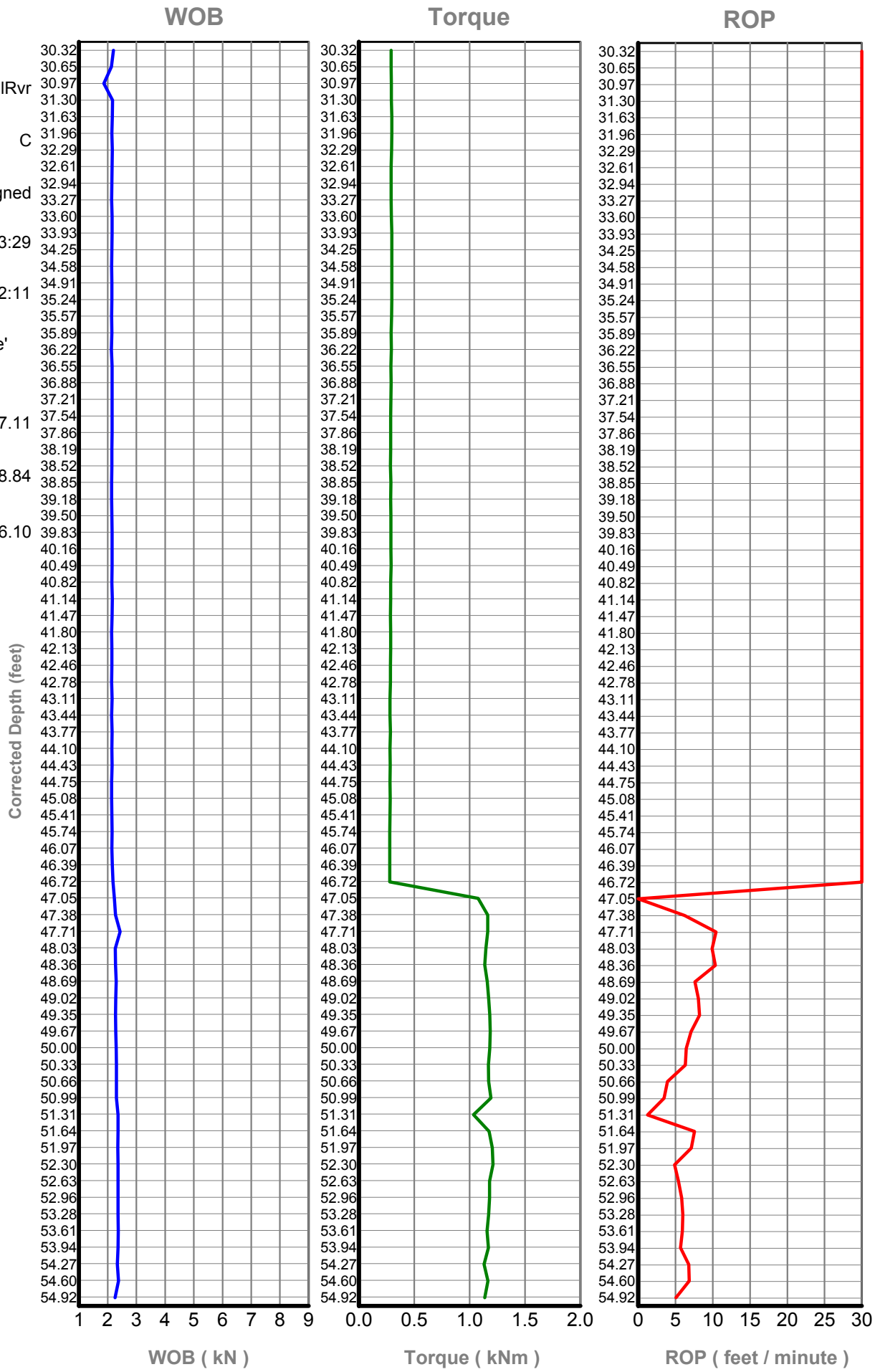
**End Date:**
4/17/2015 11:52:11

**Operator Note:**
'6.1 6,0 c Auto Complete'

**Northing:**
371,187.11

**Easting:**
259,198.84

**Tide (feet):**
6.10



## Hole: A72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:29:17 | 33.79 | 30.29 | 608 | 2.12 | 0.15 | 33.3 |
| 4/17/2015 9:29:17 | 34.12 | 30.62 | 607 | 2.14 | 0.15 | 33.2 |
| 4/17/2015 9:29:18 | 34.45 | 30.95 | 607 | 2.14 | 0.15 | 33.2 |
| 4/17/2015 9:29:18 | 34.78 | 31.28 | 616 | 2.14 | 0.15 | 33.7 |
| 4/17/2015 9:29:19 | 35.11 | 31.61 | 612 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:19 | 35.43 | 31.93 | 604 | 2.14 | 0.15 | 33.0 |
| 4/17/2015 9:29:20 | 35.76 | 32.26 | 604 | 2.13 | 0.15 | 33.0 |
| 4/17/2015 9:29:21 | 36.09 | 32.59 | 620 | 2.14 | 0.15 | 33.9 |
| 4/17/2015 9:29:21 | 36.42 | 32.92 | 611 | 2.14 | 0.15 | 33.4 |
| 4/17/2015 9:29:22 | 36.75 | 33.25 | 622 | 2.14 | 0.15 | 34.0 |
| 4/17/2015 9:29:22 | 37.07 | 33.57 | 623 | 2.14 | 0.15 | 34.0 |
| 4/17/2015 9:29:23 | 37.40 | 33.90 | 620 | 2.13 | 0.15 | 33.9 |
| 4/17/2015 9:29:23 | 37.73 | 34.23 | 609 | 2.15 | 0.15 | 33.3 |
| 4/17/2015 9:29:24 | 38.06 | 34.56 | 616 | 2.14 | 0.15 | 33.7 |
| 4/17/2015 9:29:24 | 38.39 | 34.89 | 609 | 2.14 | 0.15 | 33.3 |
| 4/17/2015 9:29:25 | 38.71 | 35.21 | 616 | 2.13 | 0.15 | 33.7 |
| 4/17/2015 9:29:26 | 39.04 | 35.54 | 600 | 2.14 | 0.15 | 32.8 |
| 4/17/2015 9:29:27 | 39.37 | 35.87 | 612 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:27 | 39.70 | 36.20 | 595 | 2.14 | 0.15 | 32.5 |
| 4/17/2015 9:29:28 | 40.03 | 36.53 | 595 | 2.13 | 0.15 | 32.5 |
| 4/17/2015 9:29:28 | 40.35 | 36.85 | 602 | 2.14 | 0.15 | 32.9 |
| 4/17/2015 9:29:29 | 40.68 | 37.18 | 606 | 2.14 | 0.15 | 33.1 |
| 4/17/2015 9:29:29 | 41.01 | 37.51 | 623 | 2.14 | 0.15 | 34.1 |
| 4/17/2015 9:29:30 | 41.34 | 37.84 | 614 | 2.14 | 0.15 | 33.6 |
| 4/17/2015 9:29:31 | 41.67 | 38.17 | 623 | 2.14 | 0.15 | 34.1 |
| 4/17/2015 9:29:31 | 41.99 | 38.49 | 613 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:32 | 42.32 | 38.82 | 613 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:32 | 42.65 | 39.15 | 614 | 2.14 | 0.15 | 33.6 |
| 4/17/2015 9:29:33 | 42.98 | 39.48 | 609 | 2.14 | 0.14 | 33.3 |
| 4/17/2015 9:29:33 | 43.31 | 39.81 | 613 | 2.14 | 0.14 | 33.5 |
| 4/17/2015 9:29:34 | 43.64 | 40.14 | 610 | 2.14 | 0.14 | 33.3 |
| 4/17/2015 9:29:34 | 43.96 | 40.46 | 613 | 2.13 | 0.14 | 33.5 |
| 4/17/2015 9:29:35 | 44.29 | 40.79 | 610 | 2.13 | 0.15 | 33.3 |
| 4/17/2015 9:29:36 | 44.62 | 41.12 | 610 | 2.13 | 0.15 | 33.4 |
| 4/17/2015 9:29:37 | 44.95 | 41.45 | 614 | 2.14 | 0.14 | 33.6 |
| 4/17/2015 9:29:37 | 45.28 | 41.78 | 606 | 2.14 | 0.14 | 33.1 |
| 4/17/2015 9:29:38 | 45.60 | 42.10 | 613 | 2.14 | 0.14 | 33.5 |
| 4/17/2015 9:29:38 | 45.93 | 42.43 | 610 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 9:29:39 | 46.26 | 42.76 | 610 | 2.14 | 0.15 | 33.4 |
| 4/17/2015 9:29:39 | 46.59 | 43.09 | 610 | 2.14 | 0.15 | 33.4 |
| 4/17/2015 9:29:40 | 46.92 | 43.42 | 613 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:41 | 47.24 | 43.74 | 610 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 9:29:41 | 47.57 | 44.07 | 610 | 2.14 | 0.15 | 33.4 |
| 4/17/2015 9:29:42 | 47.90 | 44.40 | 613 | 2.14 | 0.15 | 33.5 |
| 4/17/2015 9:29:42 | 48.23 | 44.73 | 614 | 2.14 | 0.15 | 33.6 |
| 4/17/2015 9:29:43 | 48.56 | 45.06 | 610 | 2.18 | 0.14 | 33.4 |
| 4/17/2015 9:29:43 | 48.88 | 45.38 | 610 | 2.12 | 0.14 | 33.4 |
| 4/17/2015 9:29:44 | 49.21 | 45.71 | 610 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 9:29:48 | 49.54 | 46.04 | 35 | 2.31 | 1.22 | 1.9 |
| 4/17/2015 9:30:17 | 49.87 | 46.37 | 69 | 2.22 | 1.12 | 3.8 |
| 4/17/2015 9:30:18 | 50.20 | 46.70 | 174 | 2.24 | 1.18 | 9.5 |
| 4/17/2015 9:30:20 | 50.53 | 47.03 | 246 | 2.26 | 1.14 | 13.4 |
| 4/17/2015 9:30:21 | 50.85 | 47.35 | 228 | 2.24 | 1.14 | 12.5 |
| 4/17/2015 9:30:22 | 51.18 | 47.68 | 261 | 2.21 | 1.13 | 14.3 |
| 4/17/2015 9:30:23 | 51.51 | 48.01 | 294 | 2.23 | 1.15 | 16.1 |
| 4/17/2015 9:30:24 | 51.84 | 48.34 | 321 | 2.25 | 1.17 | 17.6 |
| 4/17/2015 9:30:26 | 52.17 | 48.67 | 268 | 2.24 | 1.13 | 14.6 |
| 4/17/2015 9:30:28 | 52.49 | 48.99 | 227 | 2.23 | 1.12 | 12.4 |
| 4/17/2015 9:30:29 | 52.82 | 49.32 | 246 | 2.27 | 1.11 | 13.4 |
| 4/17/2015 9:30:32 | 53.15 | 49.65 | 153 | 2.28 | 1.16 | 8.4 |
| 4/17/2015 9:30:33 | 53.48 | 49.98 | 177 | 2.23 | 1.12 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:30:34 | 53.81 | 50.31 | 240 | 2.24 | 1.14 | 13.2 |
| 4/17/2015 | 9:30:35 | 54.13 | 50.63 | 314 | 2.21 | 1.14 | 17.2 |
| 4/17/2015 | 9:30:37 | 54.46 | 50.96 | 309 | 2.25 | 1.18 | 16.9 |
| 4/17/2015 | 9:30:39 | 54.79 | 51.29 | 222 | 2.27 | 1.20 | 12.1 |
| 4/17/2015 | 9:30:41 | 55.12 | 51.62 | 139 | 2.28 | 1.17 | 7.6 |
| 4/17/2015 | 9:30:44 | 55.45 | 51.95 | 136 | 2.29 | 1.15 | 7.4 |
| 4/17/2015 | 9:30:47 | 55.77 | 52.27 | 122 | 2.29 | 1.15 | 6.7 |
| 4/17/2015 | 9:30:51 | 56.10 | 52.60 | 95 | 2.30 | 1.16 | 5.2 |
| 4/17/2015 | 9:31:14 | 56.43 | 52.93 | 29 | 2.24 | 1.06 | 1.6 |
| 4/17/2015 | 9:31:16 | 56.76 | 53.26 | 197 | 2.29 | 1.14 | 10.8 |
| 4/17/2015 | 9:31:19 | 57.09 | 53.59 | 118 | 2.29 | 1.17 | 6.5 |
| 4/17/2015 | 9:31:25 | 57.41 | 53.91 | 40 | 2.25 | 1.03 | 2.2 |
| 4/17/2015 | 9:31:28 | 57.74 | 54.24 | 93 | 2.29 | 1.18 | 5.1 |
| 4/17/2015 | 9:31:33 | 58.07 | 54.57 | 72 | 2.29 | 1.19 | 3.9 |
| 4/17/2015 | 9:32:06 | 58.11 | 54.61 | 0 | 2.21 | 1.06 | 0.0 |

## A72 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:26:30

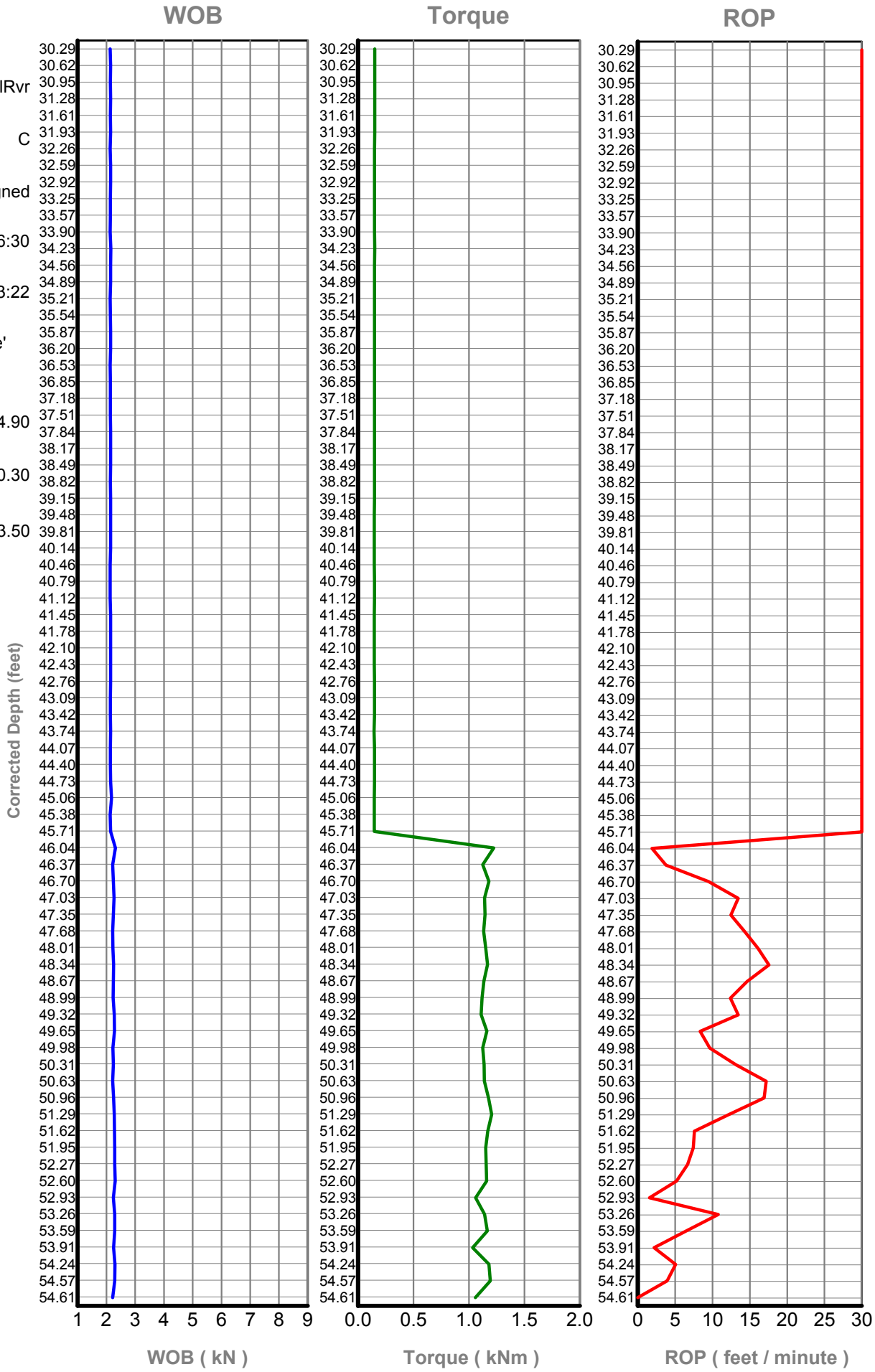
**End Date:**
4/17/2015 9:33:22

**Operator Note:**
'3.5 3.1 c Auto Complete'

**Northing:**
371,184.90

**Easting:**
259,260.30

**Tide (feet):**
3.50



## Hole: A73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:26:08 | 33.79 | 30.29 | 986 | 0.29 | 0.42 | 53.9 |
| 4/17/2015 9:26:08 | 34.12 | 30.62 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 9:26:09 | 34.45 | 30.95 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 9:26:09 | 34.78 | 31.28 | 992 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 9:26:09 | 35.11 | 31.61 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:10 | 35.43 | 31.93 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:10 | 35.76 | 32.26 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:11 | 36.09 | 32.59 | 1,004 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:11 | 36.42 | 32.92 | 1,004 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:11 | 36.75 | 33.25 | 1,001 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 9:26:12 | 37.07 | 33.57 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:12 | 37.40 | 33.90 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:12 | 37.73 | 34.23 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:13 | 38.06 | 34.56 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 9:26:13 | 38.39 | 34.89 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:14 | 38.71 | 35.21 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:14 | 39.04 | 35.54 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:14 | 39.37 | 35.87 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:15 | 39.70 | 36.20 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:15 | 40.03 | 36.53 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:15 | 40.35 | 36.85 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:16 | 40.68 | 37.18 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 9:26:16 | 41.01 | 37.51 | 1,004 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:16 | 41.34 | 37.84 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 9:26:17 | 41.67 | 38.17 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 9:26:17 | 41.99 | 38.49 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 9:26:17 | 42.32 | 38.82 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 9:26:18 | 42.65 | 39.15 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 9:26:18 | 42.98 | 39.48 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:18 | 43.31 | 39.81 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:19 | 43.64 | 40.14 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:19 | 43.96 | 40.46 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:19 | 44.29 | 40.79 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:20 | 44.62 | 41.12 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 9:26:20 | 44.95 | 41.45 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 9:26:20 | 45.28 | 41.78 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 9:26:21 | 45.60 | 42.10 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 9:26:21 | 45.93 | 42.43 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 9:26:21 | 46.26 | 42.76 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:22 | 46.59 | 43.09 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:23 | 46.92 | 43.42 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:23 | 47.24 | 43.74 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:23 | 47.57 | 44.07 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:24 | 47.90 | 44.40 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:24 | 48.23 | 44.73 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:24 | 48.56 | 45.06 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 9:26:25 | 48.88 | 45.38 | 1,018 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 9:26:25 | 49.21 | 45.71 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 9:26:25 | 49.54 | 46.04 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 9:26:26 | 49.87 | 46.37 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 9:26:26 | 50.20 | 46.70 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:26 | 50.53 | 47.03 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 9:26:27 | 50.85 | 47.35 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 9:26:27 | 51.18 | 47.68 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:27 | 51.51 | 48.01 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 9:26:28 | 51.84 | 48.34 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 9:26:46 | 52.17 | 48.67 | 37 | 0.29 | 0.42 | 2.0 |
| 4/17/2015 9:26:54 | 52.49 | 48.99 | 68 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 9:27:09 | 52.82 | 49.32 | 36 | 0.29 | 0.42 | 1.9 |
| 4/17/2015 9:27:13 | 53.15 | 49.65 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 9:27:17 | 53.48 | 49.98 | 83 | 0.29 | 0.42 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:27:22 | 53.81 | 50.31 | 83 | 0.29 | 0.42 | 4.5 |
| 4/17/2015 | 9:27:26 | 54.13 | 50.63 | 85 | 0.29 | 0.42 | 4.7 |
| 4/17/2015 | 9:27:30 | 54.46 | 50.96 | 87 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 9:27:35 | 54.79 | 51.29 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 9:27:39 | 55.12 | 51.62 | 81 | 0.29 | 0.42 | 4.5 |
| 4/17/2015 | 9:27:43 | 55.45 | 51.95 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 | 9:27:49 | 55.77 | 52.27 | 60 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 | 9:27:57 | 56.10 | 52.60 | 54 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 | 9:28:13 | 56.43 | 52.93 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 | 9:28:17 | 56.76 | 53.26 | 76 | 0.29 | 0.42 | 4.2 |
| 4/17/2015 | 9:28:22 | 57.09 | 53.59 | 87 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 9:28:26 | 57.41 | 53.91 | 72 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 | 9:28:31 | 57.74 | 54.24 | 77 | 0.29 | 0.42 | 4.2 |
| 4/17/2015 | 9:28:36 | 58.07 | 54.57 | 76 | 0.29 | 0.42 | 4.1 |
| 4/17/2015 | 9:28:37 | 58.16 | 54.66 | 78 | 0.29 | 0.42 | 4.3 |

## A73 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:24:25

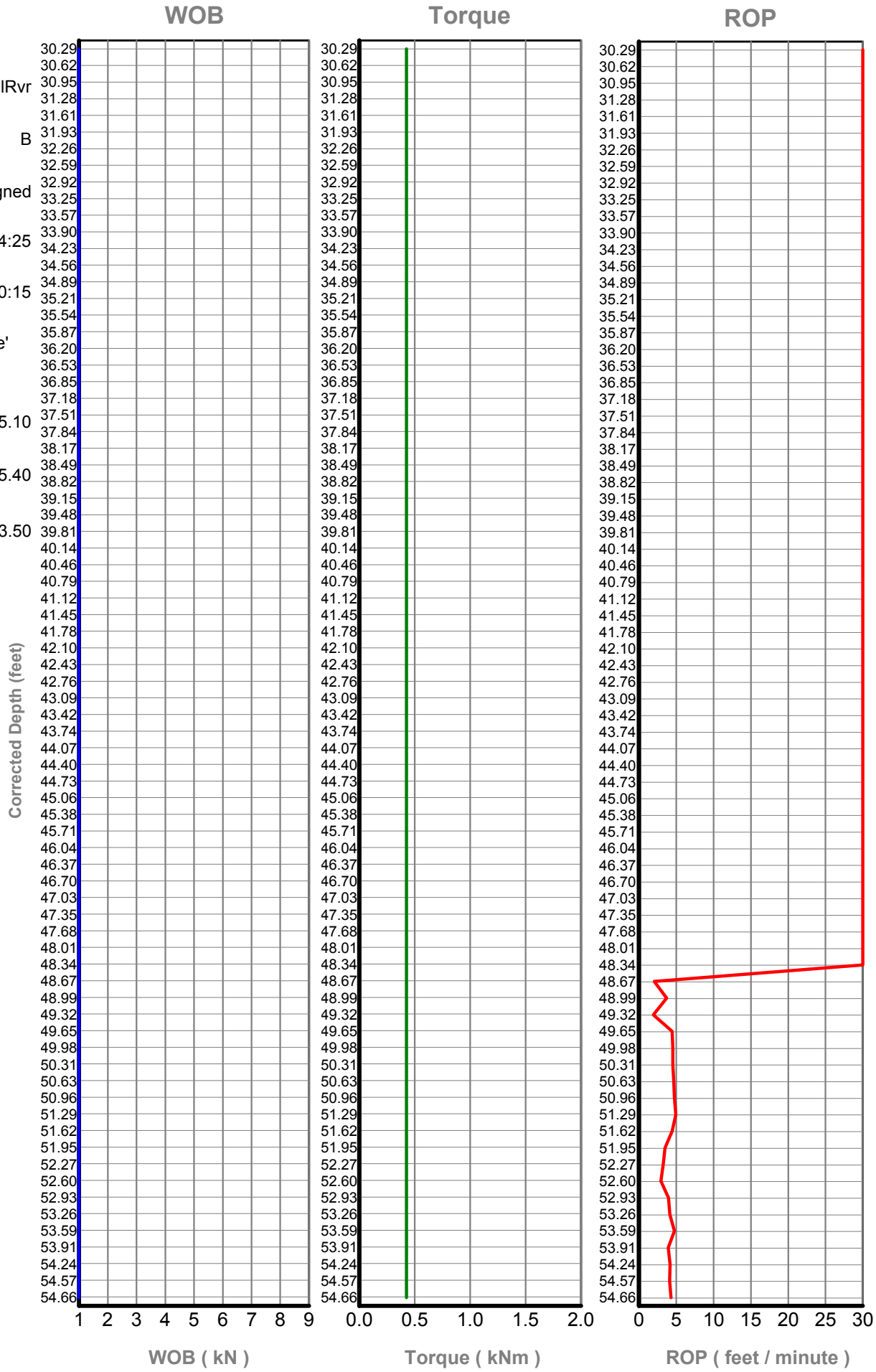
**End Date:**
4/17/2015 9:30:15

**Operator Note:**
'3.5 3.1 b Auto Complete'

**Northing:**
371,185.10

**Easting:**
259,335.40

**Tide (feet):**
3.50



## Hole: A74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:28:30 | 33.79 | 30.29 | 1,171 | 1.76 | 0.35 | 64.0 |
| 4/17/2015 9:28:30 | 34.12 | 30.62 | 1,164 | 1.74 | 0.35 | 63.6 |
| 4/17/2015 9:28:30 | 34.45 | 30.95 | 1,164 | 1.74 | 0.35 | 63.6 |
| 4/17/2015 9:28:30 | 34.78 | 31.28 | 1,177 | 1.75 | 0.35 | 64.4 |
| 4/17/2015 9:28:31 | 35.11 | 31.61 | 1,174 | 1.73 | 0.34 | 64.2 |
| 4/17/2015 9:28:32 | 35.43 | 31.93 | 1,174 | 1.73 | 0.34 | 64.2 |
| 4/17/2015 9:28:32 | 35.76 | 32.26 | 1,168 | 1.72 | 0.35 | 63.9 |
| 4/17/2015 9:28:32 | 36.09 | 32.59 | 1,168 | 1.72 | 0.35 | 63.9 |
| 4/17/2015 9:28:32 | 36.42 | 32.92 | 1,165 | 1.74 | 0.35 | 63.7 |
| 4/17/2015 9:28:33 | 36.75 | 33.25 | 1,165 | 1.74 | 0.35 | 63.7 |
| 4/17/2015 9:28:33 | 37.07 | 33.57 | 1,177 | 1.72 | 0.34 | 64.3 |
| 4/17/2015 9:28:33 | 37.40 | 33.90 | 1,174 | 1.74 | 0.35 | 64.2 |
| 4/17/2015 9:28:34 | 37.73 | 34.23 | 1,174 | 1.74 | 0.35 | 64.2 |
| 4/17/2015 9:28:34 | 38.06 | 34.56 | 1,177 | 1.74 | 0.32 | 64.3 |
| 4/17/2015 9:28:34 | 38.39 | 34.89 | 1,177 | 1.74 | 0.32 | 64.3 |
| 4/17/2015 9:28:34 | 38.71 | 35.21 | 1,169 | 1.70 | 0.35 | 63.9 |
| 4/17/2015 9:28:35 | 39.04 | 35.54 | 1,184 | 1.74 | 0.35 | 64.7 |
| 4/17/2015 9:28:35 | 39.37 | 35.87 | 1,184 | 1.74 | 0.35 | 64.7 |
| 4/17/2015 9:28:35 | 39.70 | 36.20 | 1,172 | 1.72 | 0.35 | 64.1 |
| 4/17/2015 9:28:36 | 40.03 | 36.53 | 1,172 | 1.72 | 0.35 | 64.1 |
| 4/17/2015 9:28:36 | 40.35 | 36.85 | 1,176 | 1.71 | 0.35 | 64.3 |
| 4/17/2015 9:28:36 | 40.68 | 37.18 | 1,176 | 1.71 | 0.35 | 64.3 |
| 4/17/2015 9:28:36 | 41.01 | 37.51 | 1,166 | 1.74 | 0.35 | 63.8 |
| 4/17/2015 9:28:37 | 41.34 | 37.84 | 1,183 | 1.71 | 0.35 | 64.7 |
| 4/17/2015 9:28:37 | 41.67 | 38.17 | 1,183 | 1.71 | 0.35 | 64.7 |
| 4/17/2015 9:28:37 | 41.99 | 38.49 | 1,157 | 1.74 | 0.36 | 63.3 |
| 4/17/2015 9:28:38 | 42.32 | 38.82 | 1,127 | 1.73 | 0.36 | 61.6 |
| 4/17/2015 9:28:38 | 42.65 | 39.15 | 1,048 | 1.72 | 0.36 | 57.3 |
| 4/17/2015 9:28:39 | 42.98 | 39.48 | 1,048 | 1.72 | 0.36 | 57.3 |
| 4/17/2015 9:28:39 | 43.31 | 39.81 | 975 | 1.73 | 0.35 | 53.3 |
| 4/17/2015 9:28:39 | 43.64 | 40.14 | 923 | 1.70 | 0.36 | 50.4 |
| 4/17/2015 9:28:40 | 43.96 | 40.46 | 883 | 1.73 | 0.36 | 48.3 |
| 4/17/2015 9:28:40 | 44.29 | 40.79 | 883 | 1.73 | 0.36 | 48.3 |
| 4/17/2015 9:28:40 | 44.62 | 41.12 | 880 | 1.74 | 0.35 | 48.1 |
| 4/17/2015 9:28:41 | 44.95 | 41.45 | 913 | 1.70 | 0.35 | 49.9 |
| 4/17/2015 9:28:41 | 45.28 | 41.78 | 913 | 1.70 | 0.35 | 49.9 |
| 4/17/2015 9:28:41 | 45.60 | 42.10 | 940 | 1.74 | 0.36 | 51.4 |
| 4/17/2015 9:28:42 | 45.93 | 42.43 | 949 | 1.71 | 0.35 | 51.9 |
| 4/17/2015 9:28:43 | 46.26 | 42.76 | 939 | 1.71 | 0.37 | 51.3 |
| 4/17/2015 9:28:43 | 46.59 | 43.09 | 939 | 1.71 | 0.37 | 51.3 |
| 4/17/2015 9:28:43 | 46.92 | 43.42 | 939 | 1.73 | 0.36 | 51.3 |
| 4/17/2015 9:28:44 | 47.24 | 43.74 | 919 | 1.70 | 0.36 | 50.3 |
| 4/17/2015 9:28:44 | 47.57 | 44.07 | 878 | 1.72 | 0.36 | 48.0 |
| 4/17/2015 9:28:45 | 47.90 | 44.40 | 839 | 1.71 | 0.36 | 45.9 |
| 4/17/2015 9:28:45 | 48.23 | 44.73 | 804 | 1.72 | 0.36 | 44.0 |
| 4/17/2015 9:28:46 | 48.56 | 45.06 | 787 | 1.72 | 0.36 | 43.1 |
| 4/17/2015 9:28:46 | 48.88 | 45.38 | 775 | 1.69 | 0.35 | 42.4 |
| 4/17/2015 9:28:47 | 49.21 | 45.71 | 775 | 1.69 | 0.35 | 42.4 |
| 4/17/2015 9:28:47 | 49.54 | 46.04 | 802 | 1.70 | 0.35 | 43.9 |
| 4/17/2015 9:28:47 | 49.87 | 46.37 | 843 | 1.70 | 0.36 | 46.1 |
| 4/17/2015 9:28:48 | 50.20 | 46.70 | 870 | 3.72 | 0.13 | 47.6 |
| 4/17/2015 9:29:00 | 50.53 | 47.03 | 42 | 4.68 | 0.54 | 2.3 |
| 4/17/2015 9:29:10 | 50.85 | 47.35 | 15 | 4.54 | 0.42 | 0.8 |
| 4/17/2015 9:29:13 | 51.18 | 47.68 | 113 | 4.35 | 0.50 | 6.2 |
| 4/17/2015 9:29:16 | 51.51 | 48.01 | 116 | 4.29 | 0.48 | 6.3 |
| 4/17/2015 9:29:22 | 51.84 | 48.34 | 55 | 4.46 | 0.52 | 3.0 |
| 4/17/2015 9:29:28 | 52.17 | 48.67 | 55 | 4.45 | 0.50 | 3.0 |
| 4/17/2015 9:29:33 | 52.45 | 48.95 | 55 | 4.40 | 0.57 | 3.0 |

## A74 - Summary

**Pattern Number:**
AreaA_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:26:23

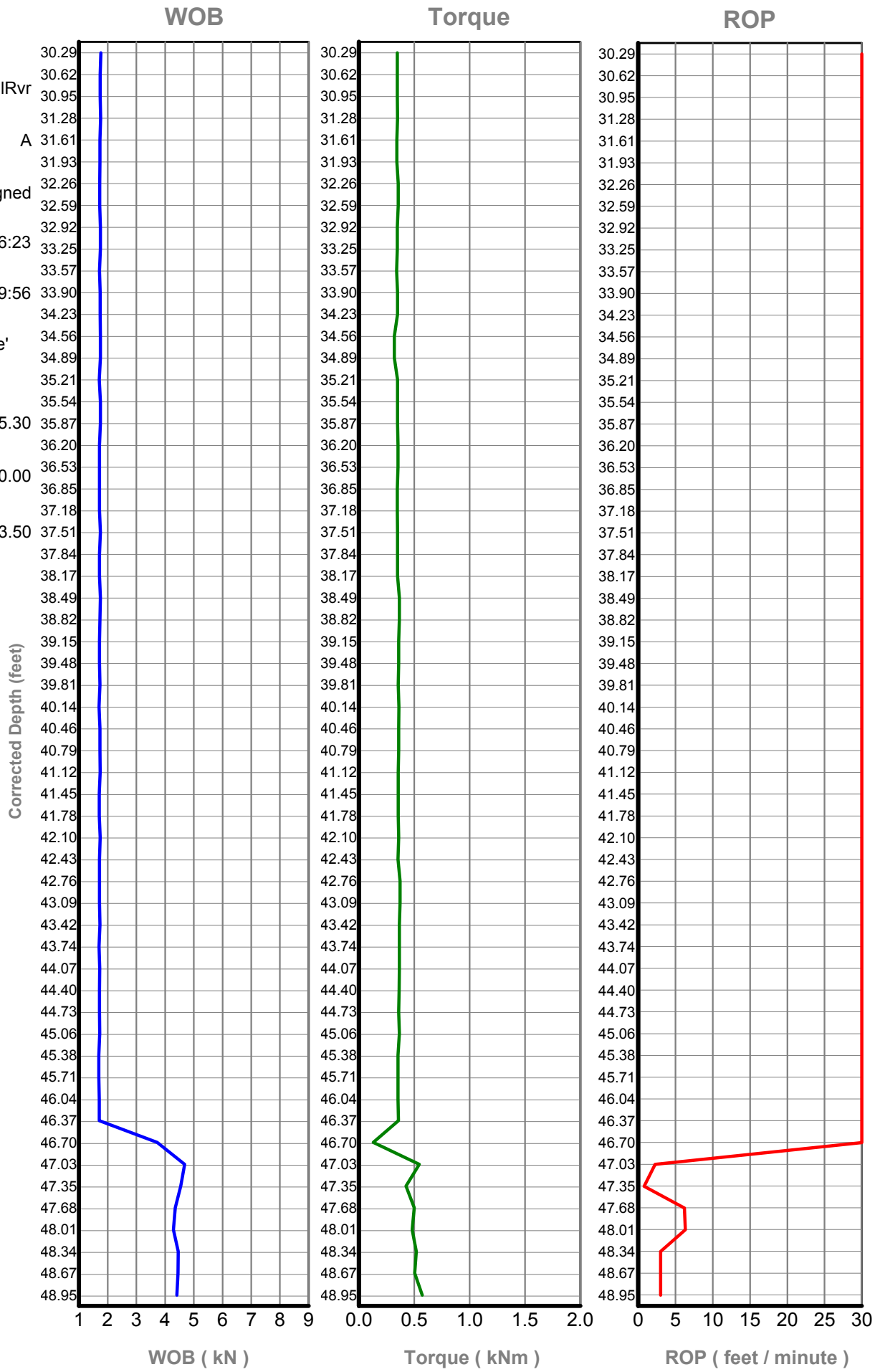
**End Date:**
4/17/2015 9:29:56

**Operator Note:**
'3.5 3.1 a Auto Complete'

**Northing:**
371,185.30

**Easting:**
259,410.00

**Tide (feet):**
3.50



## Hole: A75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:56:16 | 33.14 | 30.24 | 1,187 | 0.55 | 0.35 | 64.9 |
| 4/17/2015 3:56:16 | 33.46 | 30.56 | 1,187 | 0.55 | 0.35 | 64.9 |
| 4/17/2015 3:56:16 | 33.79 | 30.89 | 1,193 | 0.54 | 0.35 | 65.2 |
| 4/17/2015 3:56:17 | 34.12 | 31.22 | 1,174 | 0.55 | 0.35 | 64.2 |
| 4/17/2015 3:56:18 | 34.45 | 31.55 | 1,174 | 0.55 | 0.35 | 64.2 |
| 4/17/2015 3:56:17 | 34.78 | 31.88 | 1,151 | 0.55 | 0.35 | 62.9 |
| 4/17/2015 3:56:18 | 35.11 | 32.21 | 1,151 | 0.55 | 0.35 | 62.9 |
| 4/17/2015 3:56:18 | 35.43 | 32.53 | 1,151 | 0.55 | 0.34 | 62.9 |
| 4/17/2015 3:56:19 | 35.76 | 32.86 | 1,151 | 0.55 | 0.34 | 62.9 |
| 4/17/2015 3:56:18 | 36.09 | 33.19 | 1,152 | 0.54 | 0.35 | 63.0 |
| 4/17/2015 3:56:19 | 36.42 | 33.52 | 1,152 | 0.55 | 0.35 | 63.0 |
| 4/17/2015 3:56:20 | 36.75 | 33.85 | 1,152 | 0.55 | 0.35 | 63.0 |
| 4/17/2015 3:56:20 | 37.07 | 34.17 | 1,172 | 0.55 | 0.35 | 64.1 |
| 4/17/2015 3:56:20 | 37.40 | 34.50 | 1,172 | 0.55 | 0.35 | 64.1 |
| 4/17/2015 3:56:20 | 37.73 | 34.83 | 1,159 | 0.55 | 0.34 | 63.4 |
| 4/17/2015 3:56:21 | 38.06 | 35.16 | 1,172 | 0.55 | 0.35 | 64.1 |
| 4/17/2015 3:56:21 | 38.39 | 35.49 | 1,172 | 0.55 | 0.35 | 64.1 |
| 4/17/2015 3:56:21 | 38.71 | 35.81 | 1,194 | 0.54 | 0.34 | 65.3 |
| 4/17/2015 3:56:22 | 39.04 | 36.14 | 1,194 | 0.54 | 0.34 | 65.3 |
| 4/17/2015 3:56:22 | 39.37 | 36.47 | 1,202 | 0.54 | 0.35 | 65.7 |
| 4/17/2015 3:56:22 | 39.70 | 36.80 | 1,202 | 0.54 | 0.35 | 65.7 |
| 4/17/2015 3:56:22 | 40.03 | 37.13 | 1,185 | 0.55 | 0.35 | 64.8 |
| 4/17/2015 3:56:23 | 40.35 | 37.45 | 1,172 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:23 | 40.68 | 37.78 | 1,172 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:23 | 41.01 | 38.11 | 1,172 | 0.56 | 0.35 | 64.1 |
| 4/17/2015 3:56:24 | 41.34 | 38.44 | 1,172 | 0.56 | 0.35 | 64.1 |
| 4/17/2015 3:56:24 | 41.67 | 38.77 | 1,173 | 0.55 | 0.35 | 64.2 |
| 4/17/2015 3:56:24 | 41.99 | 39.09 | 1,173 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:25 | 42.32 | 39.42 | 1,173 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:25 | 42.65 | 39.75 | 1,173 | 0.54 | 0.35 | 64.2 |
| 4/17/2015 3:56:25 | 42.98 | 40.08 | 1,173 | 0.54 | 0.35 | 64.2 |
| 4/17/2015 3:56:25 | 43.31 | 40.41 | 1,173 | 0.54 | 0.35 | 64.1 |
| 4/17/2015 3:56:26 | 43.64 | 40.74 | 1,173 | 0.54 | 0.35 | 64.1 |
| 4/17/2015 3:56:26 | 43.96 | 41.06 | 1,194 | 0.54 | 0.35 | 65.3 |
| 4/17/2015 3:56:26 | 44.29 | 41.39 | 1,163 | 0.54 | 0.35 | 63.6 |
| 4/17/2015 3:56:27 | 44.62 | 41.72 | 1,163 | 0.54 | 0.35 | 63.6 |
| 4/17/2015 3:56:27 | 44.95 | 42.05 | 1,163 | 0.56 | 0.35 | 63.6 |
| 4/17/2015 3:56:27 | 45.28 | 42.38 | 1,163 | 0.56 | 0.35 | 63.6 |
| 4/17/2015 3:56:27 | 45.60 | 42.70 | 1,178 | 0.55 | 0.35 | 64.4 |
| 4/17/2015 3:56:28 | 45.93 | 43.03 | 1,178 | 0.55 | 0.35 | 64.4 |
| 4/17/2015 3:56:28 | 46.26 | 43.36 | 1,168 | 0.54 | 0.35 | 63.8 |
| 4/17/2015 3:56:28 | 46.59 | 43.69 | 1,172 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:29 | 46.92 | 44.02 | 1,172 | 0.54 | 0.34 | 64.1 |
| 4/17/2015 3:56:29 | 47.24 | 44.34 | 1,165 | 0.54 | 0.34 | 63.7 |
| 4/17/2015 3:56:30 | 47.57 | 44.67 | 1,165 | 0.54 | 0.34 | 63.7 |
| 4/17/2015 3:56:30 | 47.90 | 45.00 | 1,162 | 0.54 | 0.35 | 63.6 |
| 4/17/2015 3:56:30 | 48.23 | 45.33 | 1,162 | 0.56 | 0.45 | 63.6 |
| 4/17/2015 3:56:51 | 48.56 | 45.66 | 0 | 3.82 | 0.44 | 0.0 |
| 4/17/2015 3:56:52 | 48.88 | 45.98 | 59 | 4.32 | 0.49 | 3.2 |
| 4/17/2015 3:56:53 | 49.21 | 46.31 | 199 | 4.55 | 0.45 | 10.9 |
| 4/17/2015 3:56:55 | 49.54 | 46.64 | 201 | 4.60 | 0.48 | 11.0 |
| 4/17/2015 3:56:57 | 49.87 | 46.97 | 152 | 5.31 | 0.48 | 8.3 |
| 4/17/2015 3:57:03 | 50.20 | 47.30 | 94 | 4.95 | 0.45 | 5.1 |
| 4/17/2015 3:57:09 | 50.53 | 47.63 | 33 | 4.76 | 0.33 | 1.8 |
| 4/17/2015 3:57:11 | 50.85 | 47.95 | 124 | 6.36 | 0.46 | 6.8 |
| 4/17/2015 3:57:17 | 51.18 | 48.28 | 18 | 4.92 | 0.47 | 1.0 |
| 4/17/2015 3:57:19 | 51.51 | 48.61 | 96 | 4.83 | 0.45 | 5.2 |
| 4/17/2015 3:57:20 | 51.84 | 48.94 | 156 | 4.17 | 0.43 | 8.5 |
| 4/17/2015 3:57:21 | 52.17 | 49.27 | 284 | 4.25 | 0.46 | 15.5 |
| 4/17/2015 3:57:23 | 52.49 | 49.59 | 296 | 4.83 | 0.46 | 16.2 |
| 4/17/2015 3:57:29 | 52.82 | 49.92 | 35 | 4.11 | 0.42 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:57:30 | 53.15 | 50.25 | 178 | 5.12 | 0.47 | 9.7 |
| 4/17/2015 | 3:57:33 | 53.48 | 50.58 | 180 | 3.69 | 0.46 | 9.8 |
| 4/17/2015 | 3:57:35 | 53.81 | 50.91 | 138 | 3.97 | 0.47 | 7.6 |
| 4/17/2015 | 3:57:39 | 54.13 | 51.23 | 91 | 3.86 | 0.47 | 5.0 |
| 4/17/2015 | 3:57:44 | 54.46 | 51.56 | 82 | 3.84 | 0.47 | 4.5 |
| 4/17/2015 | 3:57:46 | 54.79 | 51.89 | 89 | 3.72 | 0.41 | 4.9 |
| 4/17/2015 | 3:57:50 | 55.12 | 52.22 | 71 | 3.92 | 0.47 | 3.9 |
| 4/17/2015 | 3:57:55 | 55.45 | 52.55 | 71 | 4.02 | 0.46 | 3.9 |
| 4/17/2015 | 3:58:00 | 55.77 | 52.87 | 66 | 3.98 | 0.47 | 3.6 |
| 4/17/2015 | 3:58:06 | 56.10 | 53.20 | 68 | 3.83 | 0.46 | 3.7 |
| 4/17/2015 | 3:58:10 | 56.43 | 53.53 | 76 | 3.65 | 0.40 | 4.2 |
| 4/17/2015 | 3:58:11 | 56.76 | 53.86 | 145 | 4.00 | 0.43 | 7.9 |
| 4/17/2015 | 3:58:15 | 57.09 | 54.19 | 126 | 4.05 | 0.46 | 6.9 |
| 4/17/2015 | 3:58:21 | 57.41 | 54.51 | 55 | 3.98 | 0.46 | 3.0 |
| 4/17/2015 | 3:58:24 | 57.74 | 54.84 | 130 | 4.24 | 0.48 | 7.1 |
| 4/17/2015 | 3:58:30 | 58.07 | 55.17 | 51 | 4.07 | 0.47 | 2.8 |
| 4/17/2015 | 3:58:33 | 58.22 | 55.32 | 40 | 3.89 | 0.46 | 2.2 |

## A75 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:51:13

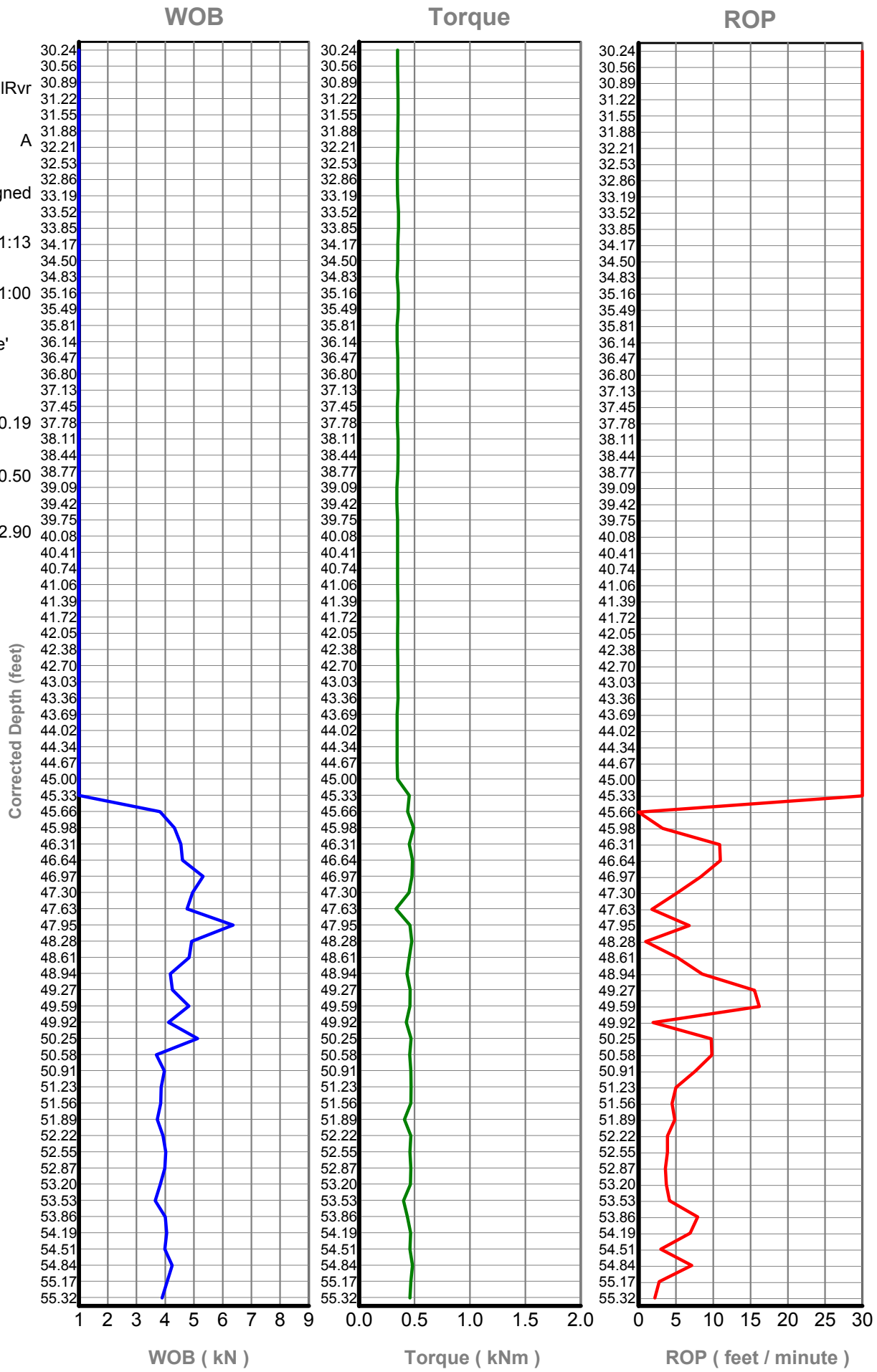
**End Date:**
4/17/2015 4:21:00

**Operator Note:**
'2.9 3.2 a Auto Complete'

**Northing:**
371,180.19

**Easting:**
259,490.50

**Tide (feet):**
2.90



## Hole: A76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 4:11:32 | 32.81 | 30.31 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:11:33 | 33.14 | 30.64 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:11:33 | 33.46 | 30.96 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 4:11:33 | 33.79 | 31.29 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 4:11:34 | 34.12 | 31.62 | 1,067 | 0.29 | 0.42 | 58.3 |
| 4/17/2015 4:11:34 | 34.45 | 31.95 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:11:34 | 34.78 | 32.28 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:11:35 | 35.11 | 32.61 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:11:35 | 35.43 | 32.93 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:11:35 | 35.76 | 33.26 | 1,065 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:11:36 | 36.09 | 33.59 | 1,065 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 4:11:36 | 36.42 | 33.92 | 1,049 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 4:11:36 | 36.75 | 34.25 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 4:11:37 | 37.07 | 34.57 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 4:11:37 | 37.40 | 34.90 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:11:37 | 37.73 | 35.23 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 4:11:38 | 38.06 | 35.56 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 4:11:38 | 38.39 | 35.89 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 4:11:38 | 38.71 | 36.21 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 4:11:38 | 39.04 | 36.54 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 4:11:39 | 39.37 | 36.87 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:11:39 | 39.70 | 37.20 | 1,058 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:11:39 | 40.03 | 37.53 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:11:40 | 40.35 | 37.85 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:11:41 | 40.68 | 38.18 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 4:11:40 | 41.01 | 38.51 | 1,047 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 4:11:41 | 41.34 | 38.84 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:11:41 | 41.67 | 39.17 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:11:42 | 41.99 | 39.49 | 1,062 | 0.29 | 0.42 | 58.1 |
| 4/17/2015 4:11:42 | 42.32 | 39.82 | 1,052 | 0.29 | 0.42 | 57.5 |
| 4/17/2015 4:11:43 | 42.65 | 40.15 | 1,052 | 0.29 | 0.42 | 57.5 |
| 4/17/2015 4:11:43 | 42.98 | 40.48 | 1,043 | 0.29 | 0.42 | 57.1 |
| 4/17/2015 4:11:43 | 43.31 | 40.81 | 1,042 | 0.29 | 0.42 | 57.0 |
| 4/17/2015 4:11:44 | 43.64 | 41.14 | 1,042 | 0.29 | 0.42 | 57.0 |
| 4/17/2015 4:11:44 | 43.96 | 41.46 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:11:44 | 44.29 | 41.79 | 1,033 | 0.29 | 0.42 | 56.5 |
| 4/17/2015 4:11:45 | 44.62 | 42.12 | 1,033 | 0.29 | 0.42 | 56.5 |
| 4/17/2015 4:11:45 | 44.95 | 42.45 | 1,033 | 0.29 | 0.42 | 56.5 |
| 4/17/2015 4:11:45 | 45.28 | 42.78 | 1,042 | 0.29 | 0.42 | 57.0 |
| 4/17/2015 4:11:46 | 45.60 | 43.10 | 1,042 | 0.29 | 0.42 | 57.0 |
| 4/17/2015 4:11:46 | 45.93 | 43.43 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 4:11:46 | 46.26 | 43.76 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 4:11:47 | 46.59 | 44.09 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 4:11:47 | 46.92 | 44.42 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/17/2015 4:11:47 | 47.24 | 44.74 | 1,036 | 0.29 | 0.42 | 56.7 |
| 4/17/2015 4:11:48 | 47.57 | 45.07 | 1,036 | 0.29 | 0.42 | 56.7 |
| 4/17/2015 4:11:48 | 47.90 | 45.40 | 1,058 | 0.29 | 0.42 | 57.8 |
| 4/17/2015 4:11:48 | 48.23 | 45.73 | 1,058 | 0.29 | 0.42 | 57.8 |
| 4/17/2015 4:11:57 | 48.56 | 46.06 | 33 | 0.29 | 0.42 | 1.8 |
| 4/17/2015 4:11:59 | 48.88 | 46.38 | 167 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 4:12:01 | 49.21 | 46.71 | 133 | 0.29 | 0.42 | 7.3 |
| 4/17/2015 4:12:05 | 49.54 | 47.04 | 107 | 0.29 | 0.42 | 5.8 |
| 4/17/2015 4:12:09 | 49.87 | 47.37 | 52 | 0.29 | 0.42 | 2.8 |
| 4/17/2015 4:12:10 | 50.20 | 47.70 | 139 | 0.29 | 0.42 | 7.6 |
| 4/17/2015 4:12:12 | 50.53 | 48.03 | 248 | 0.29 | 0.42 | 13.6 |
| 4/17/2015 4:12:14 | 50.85 | 48.35 | 203 | 0.29 | 0.42 | 11.1 |
| 4/17/2015 4:12:17 | 51.18 | 48.68 | 125 | 0.29 | 0.42 | 6.8 |
| 4/17/2015 4:12:18 | 51.51 | 49.01 | 180 | 0.29 | 0.42 | 9.8 |
| 4/17/2015 4:12:20 | 51.84 | 49.34 | 200 | 0.29 | 0.42 | 10.9 |
| 4/17/2015 4:12:22 | 52.17 | 49.67 | 188 | 0.29 | 0.42 | 10.3 |
| 4/17/2015 4:12:24 | 52.49 | 49.99 | 231 | 0.29 | 0.42 | 12.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 4:12:25 | 52.82 | 50.32 | 238 | 0.29 | 0.42 | 13.0 |
| 4/17/2015 | 4:12:26 | 53.15 | 50.65 | 289 | 0.29 | 0.42 | 15.8 |
| 4/17/2015 | 4:12:28 | 53.48 | 50.98 | 276 | 0.29 | 0.42 | 15.1 |
| 4/17/2015 | 4:12:30 | 53.81 | 51.31 | 173 | 0.29 | 0.42 | 9.5 |
| 4/17/2015 | 4:12:40 | 54.13 | 51.63 | 66 | 0.29 | 0.42 | 3.6 |
| 4/17/2015 | 4:12:41 | 54.46 | 51.96 | 193 | 0.29 | 0.42 | 10.6 |
| 4/17/2015 | 4:12:43 | 54.79 | 52.29 | 279 | 0.29 | 0.42 | 15.3 |
| 4/17/2015 | 4:12:45 | 55.12 | 52.62 | 176 | 0.29 | 0.42 | 9.6 |
| 4/17/2015 | 4:12:47 | 55.45 | 52.95 | 146 | 0.29 | 0.42 | 8.0 |
| 4/17/2015 | 4:12:51 | 55.77 | 53.27 | 102 | 0.29 | 0.42 | 5.6 |
| 4/17/2015 | 4:12:55 | 56.10 | 53.60 | 89 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 4:12:59 | 56.43 | 53.93 | 88 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 | 4:13:04 | 56.76 | 54.26 | 72 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 | 4:13:09 | 57.09 | 54.59 | 72 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 | 4:13:14 | 57.41 | 54.91 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 4:13:18 | 57.74 | 55.24 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 | 4:13:29 | 58.03 | 55.53 | 0 | 0.29 | 0.42 | 0.0 |

## A76 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 4:09:21

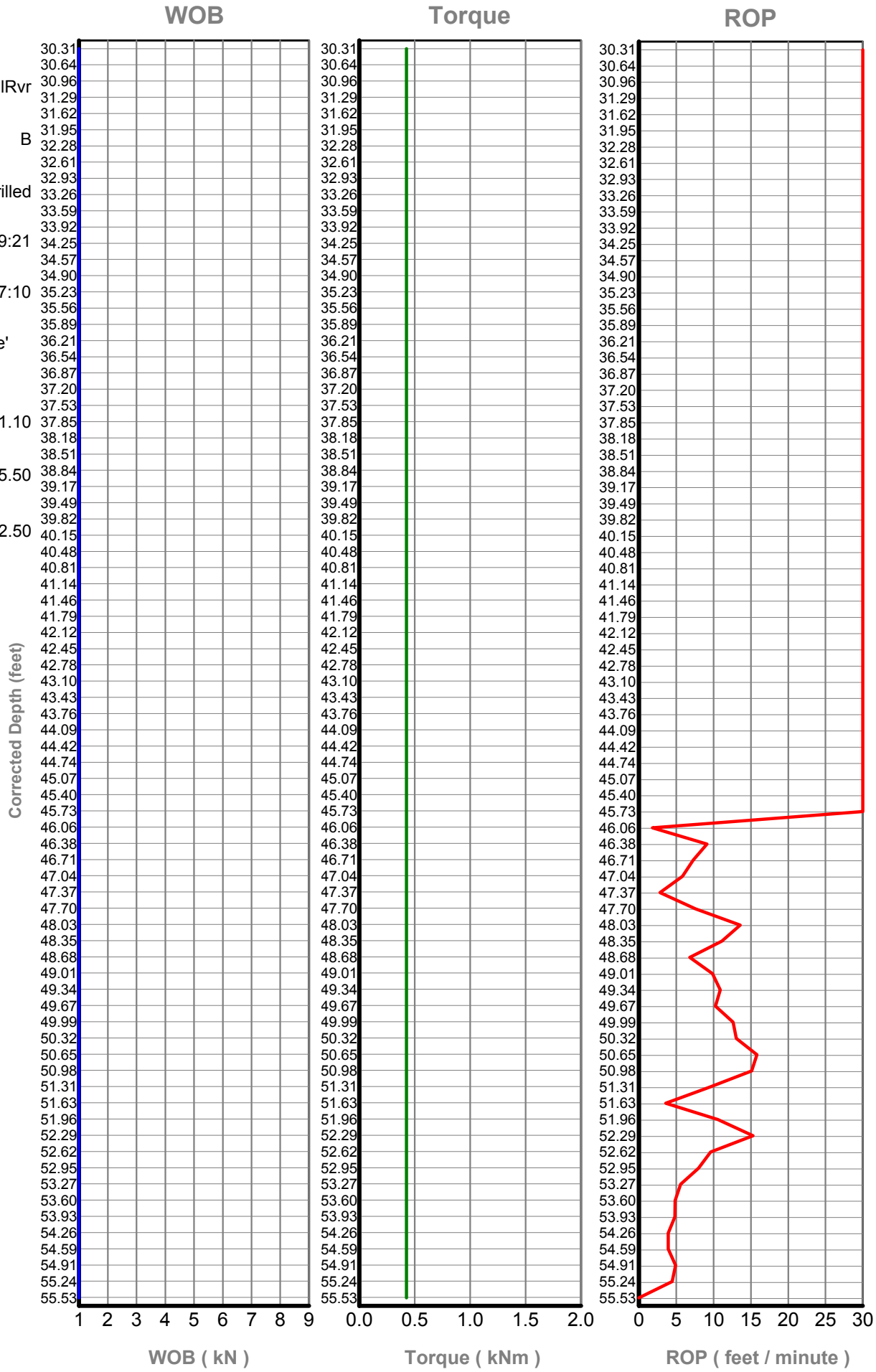
**End Date:**
4/17/2015 4:17:10

**Operator Note:**
'2.5 2.9 b Auto Complete'

**Northing:**
371,181.10

**Easting:**
259,565.50

**Tide (feet):**
2.50



## Hole: A77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:57:33 | 33.14 | 30.24 | 575 | 2.15 | 0.15 | 31.4 |
| 4/17/2015 3:57:34 | 33.46 | 30.56 | 577 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 3:57:34 | 33.79 | 30.89 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:57:35 | 34.12 | 31.22 | 581 | 2.17 | 0.14 | 31.8 |
| 4/17/2015 3:57:36 | 34.45 | 31.55 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 3:57:36 | 34.78 | 31.88 | 578 | 2.15 | 0.14 | 31.6 |
| 4/17/2015 3:57:37 | 35.11 | 32.21 | 583 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:57:37 | 35.43 | 32.53 | 576 | 2.14 | 0.14 | 31.5 |
| 4/17/2015 3:57:38 | 35.76 | 32.86 | 576 | 2.16 | 0.14 | 31.5 |
| 4/17/2015 3:57:39 | 36.09 | 33.19 | 580 | 2.16 | 0.14 | 31.7 |
| 4/17/2015 3:57:39 | 36.42 | 33.52 | 578 | 2.17 | 0.14 | 31.6 |
| 4/17/2015 3:57:40 | 36.75 | 33.85 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:57:40 | 37.07 | 34.17 | 571 | 2.15 | 0.14 | 31.2 |
| 4/17/2015 3:57:41 | 37.40 | 34.50 | 571 | 2.16 | 0.14 | 31.2 |
| 4/17/2015 3:57:41 | 37.73 | 34.83 | 577 | 2.14 | 0.14 | 31.5 |
| 4/17/2015 3:57:43 | 38.06 | 35.16 | 577 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 3:57:43 | 38.39 | 35.49 | 580 | 2.14 | 0.14 | 31.7 |
| 4/17/2015 3:57:44 | 38.71 | 35.81 | 586 | 2.15 | 0.14 | 32.1 |
| 4/17/2015 3:57:44 | 39.04 | 36.14 | 585 | 2.15 | 0.14 | 32.0 |
| 4/17/2015 3:57:45 | 39.37 | 36.47 | 581 | 2.09 | 0.14 | 31.8 |
| 4/17/2015 3:57:46 | 39.70 | 36.80 | 578 | 2.16 | 0.14 | 31.6 |
| 4/17/2015 3:57:46 | 40.03 | 37.13 | 581 | 2.16 | 0.14 | 31.8 |
| 4/17/2015 3:57:47 | 40.35 | 37.45 | 581 | 2.15 | 0.14 | 31.8 |
| 4/17/2015 3:57:47 | 40.68 | 37.78 | 581 | 2.16 | 0.14 | 31.8 |
| 4/17/2015 3:57:48 | 41.01 | 38.11 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:57:48 | 41.34 | 38.44 | 584 | 2.16 | 0.14 | 32.0 |
| 4/17/2015 3:57:49 | 41.67 | 38.77 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:57:50 | 41.99 | 39.09 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:57:50 | 42.32 | 39.42 | 581 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 3:57:51 | 42.65 | 39.75 | 569 | 2.15 | 0.14 | 31.1 |
| 4/17/2015 3:57:51 | 42.98 | 40.08 | 569 | 2.16 | 0.14 | 31.1 |
| 4/17/2015 3:57:52 | 43.31 | 40.41 | 573 | 2.16 | 0.14 | 31.4 |
| 4/17/2015 3:57:53 | 43.64 | 40.74 | 574 | 2.14 | 0.14 | 31.4 |
| 4/17/2015 3:57:54 | 43.96 | 41.06 | 577 | 2.16 | 0.14 | 31.6 |
| 4/17/2015 3:57:54 | 44.29 | 41.39 | 583 | 2.15 | 0.14 | 31.9 |
| 4/17/2015 3:57:55 | 44.62 | 41.72 | 578 | 2.16 | 0.14 | 31.6 |
| 4/17/2015 3:57:55 | 44.95 | 42.05 | 578 | 2.16 | 0.14 | 31.6 |
| 4/17/2015 3:57:56 | 45.28 | 42.38 | 575 | 2.16 | 0.14 | 31.4 |
| 4/17/2015 3:57:57 | 45.60 | 42.70 | 578 | 2.15 | 0.14 | 31.6 |
| 4/17/2015 3:57:57 | 45.93 | 43.03 | 578 | 2.15 | 0.14 | 31.6 |
| 4/17/2015 3:57:58 | 46.26 | 43.36 | 575 | 2.16 | 0.14 | 31.5 |
| 4/17/2015 3:57:58 | 46.59 | 43.69 | 575 | 2.14 | 0.14 | 31.5 |
| 4/17/2015 3:57:59 | 46.92 | 44.02 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 3:58:00 | 47.24 | 44.34 | 575 | 2.16 | 0.14 | 31.5 |
| 4/17/2015 3:58:00 | 47.57 | 44.67 | 575 | 2.14 | 0.14 | 31.4 |
| 4/17/2015 3:58:01 | 47.90 | 45.00 | 581 | 2.16 | 0.13 | 31.8 |
| 4/17/2015 3:58:01 | 48.23 | 45.33 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 3:58:02 | 48.56 | 45.66 | 572 | 2.17 | 0.14 | 31.3 |
| 4/17/2015 3:58:26 | 48.88 | 45.98 | 0 | 2.21 | 1.13 | 0.0 |
| 4/17/2015 3:58:32 | 49.21 | 46.31 | 71 | 2.20 | 1.15 | 3.9 |
| 4/17/2015 3:58:32 | 49.54 | 46.64 | 149 | 2.17 | 1.09 | 8.1 |
| 4/17/2015 3:58:33 | 49.87 | 46.97 | 305 | 2.21 | 1.05 | 16.7 |
| 4/17/2015 3:58:35 | 50.20 | 47.30 | 358 | 2.25 | 1.14 | 19.6 |
| 4/17/2015 3:58:37 | 50.53 | 47.63 | 251 | 2.27 | 1.27 | 13.7 |
| 4/17/2015 3:58:39 | 50.85 | 47.95 | 176 | 2.24 | 1.31 | 9.6 |
| 4/17/2015 3:58:47 | 51.18 | 48.28 | 0 | 2.25 | 1.35 | 0.0 |
| 4/17/2015 3:58:49 | 51.51 | 48.61 | 145 | 2.23 | 1.30 | 7.9 |
| 4/17/2015 3:59:05 | 51.84 | 48.94 | 0 | 2.22 | 1.24 | 0.0 |
| 4/17/2015 3:59:07 | 52.17 | 49.27 | 124 | 2.29 | 1.20 | 6.8 |
| 4/17/2015 3:59:08 | 52.49 | 49.59 | 269 | 2.27 | 1.12 | 14.7 |
| 4/17/2015 3:59:11 | 52.82 | 49.92 | 160 | 2.27 | 1.17 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:59:12 | 53.15 | 50.25 | 165 | 2.31 | 1.48 | 9.0 |
| 4/17/2015 | 3:59:18 | 53.48 | 50.58 | 106 | 2.36 | 1.20 | 5.8 |
| 4/17/2015 | 3:59:21 | 53.81 | 50.91 | 110 | 2.36 | 1.30 | 6.0 |
| 4/17/2015 | 3:59:25 | 54.13 | 51.23 | 75 | 2.38 | 1.35 | 4.1 |

## A77 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:54:36

**End Date:**
4/17/2015 4:00:48

**Operator Note:**
'2.9 3.1 c Auto Complete'

**Northing:**
371,182.00

**Easting:**
259,640.49

**Tide (feet):**
2.90



## Hole: A78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:09:30 | 30.51 | 30.31 | 1,149 | 1.53 | 0.32 | 62.8 |
| 4/16/2015 18:09:31 | 30.84 | 30.64 | 1,149 | 1.53 | 0.32 | 62.8 |
| 4/16/2015 18:09:31 | 31.17 | 30.97 | 1,138 | 1.58 | 0.33 | 62.2 |
| 4/16/2015 18:09:31 | 31.50 | 31.30 | 1,138 | 1.58 | 0.33 | 62.2 |
| 4/16/2015 18:09:31 | 31.82 | 31.62 | 1,148 | 1.53 | 0.33 | 62.8 |
| 4/16/2015 18:09:32 | 32.15 | 31.95 | 1,139 | 1.51 | 0.33 | 62.3 |
| 4/16/2015 18:09:32 | 32.48 | 32.28 | 1,139 | 1.51 | 0.33 | 62.3 |
| 4/16/2015 18:09:32 | 32.81 | 32.61 | 1,139 | 1.52 | 0.33 | 62.3 |
| 4/16/2015 18:09:33 | 33.14 | 32.94 | 1,139 | 1.52 | 0.33 | 62.3 |
| 4/16/2015 18:09:33 | 33.46 | 33.26 | 1,136 | 1.52 | 0.34 | 62.1 |
| 4/16/2015 18:09:33 | 33.79 | 33.59 | 1,149 | 1.51 | 0.32 | 62.8 |
| 4/16/2015 18:09:34 | 34.12 | 33.92 | 1,149 | 1.51 | 0.32 | 62.8 |
| 4/16/2015 18:09:34 | 34.45 | 34.25 | 1,136 | 1.51 | 0.33 | 62.1 |
| 4/16/2015 18:09:35 | 34.78 | 34.58 | 1,136 | 1.51 | 0.33 | 62.1 |
| 4/16/2015 18:09:35 | 35.11 | 34.91 | 1,139 | 1.51 | 0.33 | 62.3 |
| 4/16/2015 18:09:35 | 35.43 | 35.23 | 1,129 | 1.52 | 0.33 | 61.7 |
| 4/16/2015 18:09:36 | 35.76 | 35.56 | 1,129 | 1.52 | 0.33 | 61.7 |
| 4/16/2015 18:09:36 | 36.09 | 35.89 | 1,142 | 1.51 | 0.33 | 62.4 |
| 4/16/2015 18:09:36 | 36.42 | 36.22 | 1,142 | 1.51 | 0.33 | 62.4 |
| 4/16/2015 18:09:36 | 36.75 | 36.55 | 1,130 | 1.50 | 0.33 | 61.8 |
| 4/16/2015 18:09:37 | 37.07 | 36.87 | 1,136 | 1.52 | 0.32 | 62.1 |
| 4/16/2015 18:09:37 | 37.40 | 37.20 | 1,136 | 1.52 | 0.32 | 62.1 |
| 4/16/2015 18:09:37 | 37.73 | 37.53 | 1,123 | 1.53 | 0.32 | 61.4 |
| 4/16/2015 18:09:38 | 38.06 | 37.86 | 1,123 | 1.53 | 0.32 | 61.4 |
| 4/16/2015 18:09:38 | 38.39 | 38.19 | 1,123 | 1.53 | 0.33 | 61.4 |
| 4/16/2015 18:09:38 | 38.71 | 38.51 | 1,137 | 1.51 | 0.34 | 62.2 |
| 4/16/2015 18:09:39 | 39.04 | 38.84 | 1,137 | 1.51 | 0.34 | 62.2 |
| 4/16/2015 18:09:39 | 39.37 | 39.17 | 1,131 | 1.52 | 0.34 | 61.8 |
| 4/16/2015 18:09:39 | 39.70 | 39.50 | 1,131 | 1.52 | 0.34 | 61.8 |
| 4/16/2015 18:09:39 | 40.03 | 39.83 | 1,124 | 1.54 | 0.33 | 61.5 |
| 4/16/2015 18:09:40 | 40.35 | 40.15 | 1,131 | 1.53 | 0.34 | 61.8 |
| 4/16/2015 18:09:40 | 40.68 | 40.48 | 1,131 | 1.53 | 0.34 | 61.8 |
| 4/16/2015 18:09:40 | 41.01 | 40.81 | 1,147 | 1.51 | 0.34 | 62.7 |
| 4/16/2015 18:09:41 | 41.34 | 41.14 | 1,147 | 1.51 | 0.34 | 62.7 |
| 4/16/2015 18:09:41 | 41.67 | 41.47 | 1,131 | 1.68 | 0.32 | 61.8 |
| 4/16/2015 18:09:41 | 41.99 | 41.79 | 1,124 | 1.71 | 0.33 | 61.5 |
| 4/16/2015 18:09:42 | 42.32 | 42.12 | 1,124 | 1.71 | 0.33 | 61.5 |
| 4/16/2015 18:09:42 | 42.65 | 42.45 | 1,140 | 1.71 | 0.32 | 62.4 |
| 4/16/2015 18:09:42 | 42.98 | 42.78 | 1,140 | 1.71 | 0.32 | 62.4 |
| 4/16/2015 18:09:42 | 43.31 | 43.11 | 1,127 | 1.68 | 0.33 | 61.7 |
| 4/16/2015 18:09:43 | 43.64 | 43.44 | 1,127 | 1.70 | 0.32 | 61.7 |
| 4/16/2015 18:09:43 | 43.96 | 43.76 | 1,127 | 1.70 | 0.32 | 61.7 |
| 4/16/2015 18:09:43 | 44.29 | 44.09 | 1,133 | 1.69 | 0.33 | 62.0 |
| 4/16/2015 18:09:44 | 44.62 | 44.42 | 1,136 | 1.67 | 0.33 | 62.1 |
| 4/16/2015 18:09:44 | 44.95 | 44.75 | 1,136 | 1.67 | 0.33 | 62.1 |
| 4/16/2015 18:09:45 | 45.28 | 45.08 | 1,130 | 1.99 | 0.35 | 61.8 |
| 4/16/2015 18:09:45 | 45.60 | 45.40 | 1,073 | 3.36 | 0.47 | 58.7 |
| 4/16/2015 18:10:00 | 45.93 | 45.73 | 120 | 3.97 | 0.52 | 6.6 |
| 4/16/2015 18:10:03 | 46.26 | 46.06 | 95 | 4.53 | 0.51 | 5.2 |
| 4/16/2015 18:10:11 | 46.59 | 46.39 | 29 | 4.41 | 0.54 | 1.6 |
| 4/16/2015 18:10:19 | 46.92 | 46.72 | 58 | 3.91 | 0.42 | 3.1 |
| 4/16/2015 18:10:21 | 47.24 | 47.04 | 146 | 4.33 | 0.48 | 8.0 |
| 4/16/2015 18:10:23 | 47.57 | 47.37 | 139 | 4.15 | 0.48 | 7.6 |
| 4/16/2015 18:10:26 | 47.90 | 47.70 | 159 | 4.60 | 0.45 | 8.7 |
| 4/16/2015 18:10:30 | 48.23 | 48.03 | 82 | 4.05 | 0.50 | 4.5 |
| 4/16/2015 18:10:34 | 48.56 | 48.36 | 76 | 4.15 | 0.45 | 4.2 |
| 4/16/2015 18:10:39 | 48.88 | 48.68 | 80 | 4.00 | 0.47 | 4.4 |
| 4/16/2015 18:11:02 | 49.21 | 49.01 | 2 | 4.74 | 0.48 | 0.1 |
| 4/16/2015 18:11:06 | 49.39 | 49.19 | 38 | 3.83 | 0.21 | 2.1 |

## A78 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:03:43

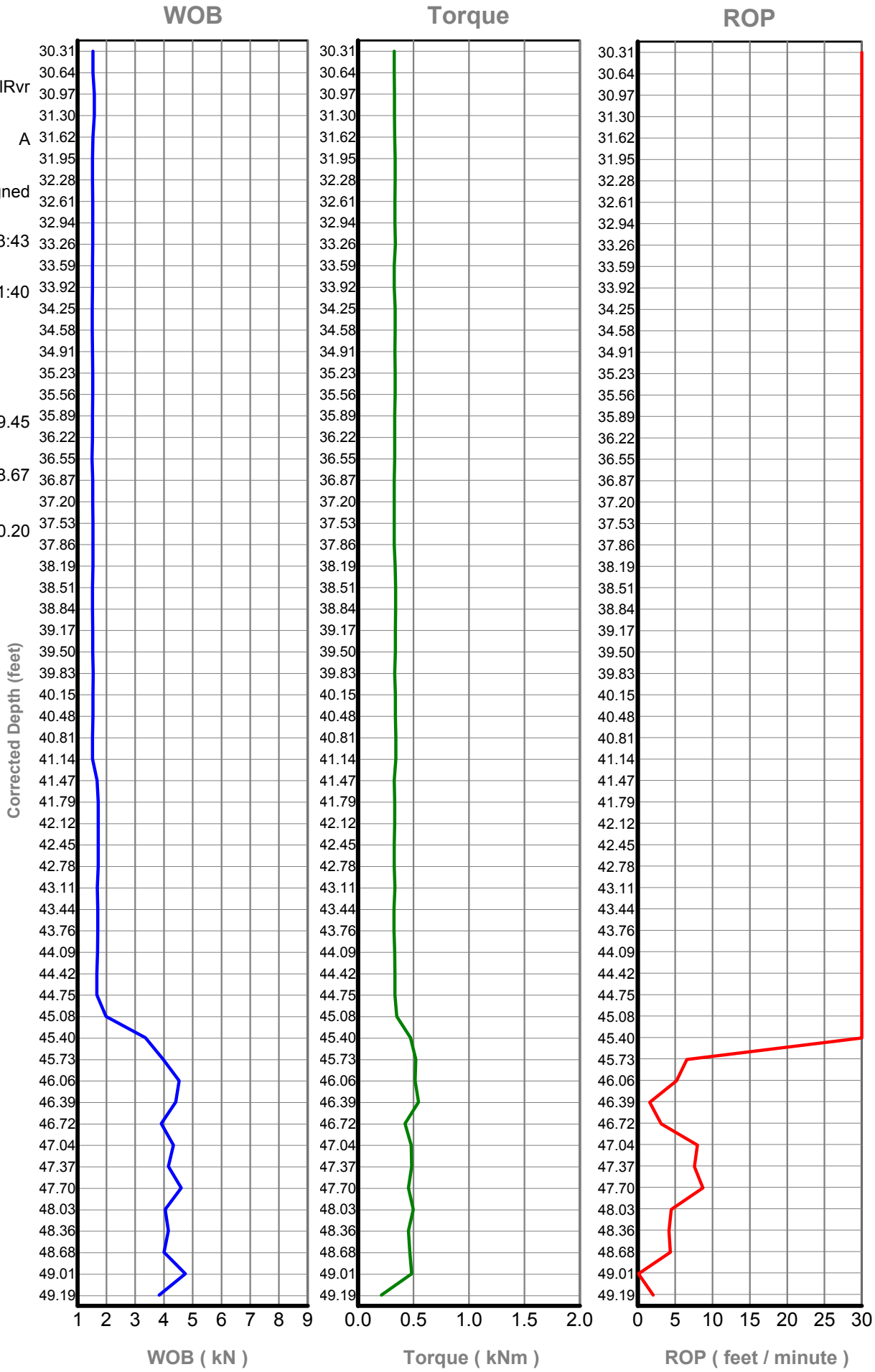
**End Date:**
4/16/2015 18:11:40

**Operator Note:**
'0.2 .4 a Auto Complete'

**Northing:**
371,179.45

**Easting:**
259,718.67

**Tide (feet):**
0.20



## Hole: A79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:08:13 | 30.51 | 30.31 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 18:08:13 | 30.84 | 30.64 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 18:08:13 | 31.17 | 30.97 | 960 | 0.29 | 0.42 | 52.5 |
| 4/16/2015 18:08:14 | 31.50 | 31.30 | 960 | 0.29 | 0.42 | 52.5 |
| 4/16/2015 18:08:14 | 31.82 | 31.62 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 18:08:15 | 32.15 | 31.95 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 18:08:15 | 32.48 | 32.28 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 18:08:15 | 32.81 | 32.61 | 957 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 18:08:16 | 33.14 | 32.94 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 18:08:16 | 33.46 | 33.26 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 18:08:17 | 33.79 | 33.59 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 18:08:17 | 34.12 | 33.92 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 18:08:18 | 34.45 | 34.25 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 18:08:18 | 34.78 | 34.58 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 18:08:18 | 35.11 | 34.91 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 18:08:19 | 35.43 | 35.23 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 18:08:19 | 35.76 | 35.56 | 899 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 18:08:20 | 36.09 | 35.89 | 899 | 0.29 | 0.42 | 49.2 |
| 4/16/2015 18:08:20 | 36.42 | 36.22 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 18:08:20 | 36.75 | 36.55 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 18:08:21 | 37.07 | 36.87 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 18:08:21 | 37.40 | 37.20 | 899 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 18:08:21 | 37.73 | 37.53 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 18:08:22 | 38.06 | 37.86 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:22 | 38.39 | 38.19 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 18:08:23 | 38.71 | 38.51 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 18:08:23 | 39.04 | 38.84 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 18:08:23 | 39.37 | 39.17 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:24 | 39.70 | 39.50 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:24 | 40.03 | 39.83 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 18:08:25 | 40.35 | 40.15 | 894 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 18:08:25 | 40.68 | 40.48 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 18:08:25 | 41.01 | 40.81 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 18:08:26 | 41.34 | 41.14 | 888 | 0.29 | 0.42 | 48.6 |
| 4/16/2015 18:08:26 | 41.67 | 41.47 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 18:08:27 | 41.99 | 41.79 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 18:08:27 | 42.32 | 42.12 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 18:08:27 | 42.65 | 42.45 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 18:08:28 | 42.98 | 42.78 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:29 | 43.31 | 43.11 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:29 | 43.64 | 43.44 | 884 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 18:08:29 | 43.96 | 43.76 | 882 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 18:08:30 | 44.29 | 44.09 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 18:08:30 | 44.62 | 44.42 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:31 | 44.95 | 44.75 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:31 | 45.28 | 45.08 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 18:08:31 | 45.60 | 45.40 | 888 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 18:08:32 | 45.93 | 45.73 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:32 | 46.26 | 46.06 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 18:08:33 | 46.59 | 46.39 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 18:08:46 | 46.92 | 46.72 | 94 | 0.29 | 0.42 | 5.2 |
| 4/16/2015 18:08:50 | 47.24 | 47.04 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 18:09:02 | 47.57 | 47.37 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 18:09:07 | 47.90 | 47.70 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 18:09:12 | 48.23 | 48.03 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 18:09:28 | 48.56 | 48.36 | 43 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 18:09:33 | 48.88 | 48.68 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 18:09:37 | 49.21 | 49.01 | 81 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 18:09:43 | 49.54 | 49.34 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 18:09:47 | 49.87 | 49.67 | 75 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 18:09:52 | 50.20 | 50.00 | 76 | 0.29 | 0.42 | 4.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/16/2015 18:09:56 | 50.53 | 50.33 | 83 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 18:10:00 | 50.85 | 50.65 | 95 | 0.29 | 0.42 | 5.2 |
| 4/16/2015 18:10:17 | 51.18 | 50.98 | 55 | 0.29 | 0.42 | 3.0 |
| 4/16/2015 18:10:23 | 51.51 | 51.31 | 58 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 18:10:30 | 51.84 | 51.64 | 68 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 18:10:35 | 52.17 | 51.97 | 58 | 0.29 | 0.42 | 3.2 |
| 4/16/2015 18:10:36 | 52.23 | 52.03 | 58 | 0.29 | 0.42 | 3.2 |

## A79 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:03:36

**End Date:**
4/16/2015 18:12:58

**Operator Note:**
'0.2 0.3 b Hit rock @ 51"

**Northing:**
371,174.23

**Easting:**
259,793.48

**Tide (feet):**
0.20



## Hole: A8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 15:07:41 | 32.81 | 30.01 | 939 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 15:07:42 | 33.14 | 30.34 | 939 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 15:07:42 | 33.46 | 30.66 | 942 | 0.29 | 0.42 | 51.5 |
| 4/16/2015 15:07:42 | 33.79 | 30.99 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 15:07:43 | 34.12 | 31.32 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 15:07:43 | 34.45 | 31.65 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 15:07:43 | 34.78 | 31.98 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 15:07:44 | 35.11 | 32.31 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 15:07:44 | 35.43 | 32.63 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 15:07:44 | 35.76 | 32.96 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 15:07:45 | 36.09 | 33.29 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 15:07:45 | 36.42 | 33.62 | 898 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 15:07:46 | 36.75 | 33.95 | 898 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 15:07:46 | 37.07 | 34.27 | 898 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 15:07:46 | 37.40 | 34.60 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 15:07:47 | 37.73 | 34.93 | 908 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 15:07:47 | 38.06 | 35.26 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 15:07:48 | 38.39 | 35.59 | 891 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 15:07:48 | 38.71 | 35.91 | 893 | 0.29 | 0.42 | 48.9 |
| 4/16/2015 15:07:48 | 39.04 | 36.24 | 917 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 15:07:49 | 39.37 | 36.57 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 15:07:49 | 39.70 | 36.90 | 910 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 15:08:06 | 40.03 | 37.23 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 15:08:08 | 40.35 | 37.55 | 188 | 0.29 | 0.42 | 10.3 |
| 4/16/2015 15:08:12 | 40.68 | 37.88 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 15:08:17 | 41.01 | 38.21 | 52 | 0.29 | 0.42 | 2.8 |
| 4/16/2015 15:08:22 | 41.34 | 38.54 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 15:08:28 | 41.67 | 38.87 | 20 | 0.29 | 0.42 | 1.1 |
| 4/16/2015 15:08:29 | 41.99 | 39.19 | 170 | 0.29 | 0.42 | 9.3 |
| 4/16/2015 15:08:32 | 42.32 | 39.52 | 99 | 0.29 | 0.42 | 5.4 |
| 4/16/2015 15:08:37 | 42.65 | 39.85 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 15:08:43 | 42.98 | 40.18 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 15:08:48 | 43.31 | 40.51 | 71 | 0.29 | 0.42 | 3.9 |
| 4/16/2015 15:16:02 | 43.64 | 40.84 | 5 | 0.29 | 0.42 | 0.3 |
| 4/16/2015 15:16:08 | 43.96 | 41.16 | 63 | 0.29 | 0.42 | 3.4 |
| 4/16/2015 15:16:14 | 44.29 | 41.49 | 61 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 15:16:14 | 44.33 | 41.53 | 61 | 0.29 | 0.42 | 3.3 |

## A8 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 15:05:44

**End Date:**
4/16/2015 15:19:04

**Operator Note:**
'2.8 3.2 b Tide changed to 3.0 hit rock @ around

**Northing:**
371,609.57

**Easting:**
260,035.11

**Tide (feet):**
2.80



## Hole: A80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:06:09 | 30.51 | 30.31 | 728 | 2.25 | 0.30 | 39.8 |
| 4/16/2015 18:06:10 | 30.84 | 30.64 | 721 | 2.25 | 0.30 | 39.4 |
| 4/16/2015 18:06:10 | 31.17 | 30.97 | 725 | 2.25 | 0.30 | 39.6 |
| 4/16/2015 18:06:11 | 31.50 | 31.30 | 725 | 2.26 | 0.30 | 39.7 |
| 4/16/2015 18:06:11 | 31.82 | 31.62 | 731 | 2.26 | 0.30 | 40.0 |
| 4/16/2015 18:06:12 | 32.15 | 31.95 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:12 | 32.48 | 32.28 | 724 | 2.25 | 0.30 | 39.6 |
| 4/16/2015 18:06:13 | 32.81 | 32.61 | 716 | 2.26 | 0.30 | 39.1 |
| 4/16/2015 18:06:13 | 33.14 | 32.94 | 716 | 2.26 | 0.30 | 39.1 |
| 4/16/2015 18:06:13 | 33.46 | 33.26 | 723 | 2.27 | 0.30 | 39.5 |
| 4/16/2015 18:06:14 | 33.79 | 33.59 | 723 | 2.26 | 0.30 | 39.5 |
| 4/16/2015 18:06:14 | 34.12 | 33.92 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:15 | 34.45 | 34.25 | 721 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:15 | 34.78 | 34.58 | 730 | 2.25 | 0.30 | 39.9 |
| 4/16/2015 18:06:16 | 35.11 | 34.91 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:16 | 35.43 | 35.23 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:17 | 35.76 | 35.56 | 718 | 2.26 | 0.30 | 39.3 |
| 4/16/2015 18:06:17 | 36.09 | 35.89 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:18 | 36.42 | 36.22 | 715 | 2.27 | 0.30 | 39.1 |
| 4/16/2015 18:06:19 | 36.75 | 36.55 | 704 | 2.26 | 0.30 | 38.5 |
| 4/16/2015 18:06:19 | 37.07 | 36.87 | 704 | 2.26 | 0.30 | 38.5 |
| 4/16/2015 18:06:20 | 37.40 | 37.20 | 715 | 2.25 | 0.30 | 39.1 |
| 4/16/2015 18:06:20 | 37.73 | 37.53 | 715 | 2.25 | 0.30 | 39.1 |
| 4/16/2015 18:06:21 | 38.06 | 37.86 | 712 | 2.25 | 0.30 | 39.0 |
| 4/16/2015 18:06:21 | 38.39 | 38.19 | 711 | 2.30 | 0.30 | 38.9 |
| 4/16/2015 18:06:22 | 38.71 | 38.51 | 726 | 2.25 | 0.30 | 39.7 |
| 4/16/2015 18:06:22 | 39.04 | 38.84 | 723 | 2.26 | 0.30 | 39.5 |
| 4/16/2015 18:06:23 | 39.37 | 39.17 | 720 | 2.27 | 0.30 | 39.4 |
| 4/16/2015 18:06:23 | 39.70 | 39.50 | 719 | 2.26 | 0.30 | 39.3 |
| 4/16/2015 18:06:24 | 40.03 | 39.83 | 719 | 2.26 | 0.30 | 39.3 |
| 4/16/2015 18:06:24 | 40.35 | 40.15 | 727 | 2.26 | 0.30 | 39.8 |
| 4/16/2015 18:06:24 | 40.68 | 40.48 | 724 | 2.25 | 0.30 | 39.6 |
| 4/16/2015 18:06:25 | 41.01 | 40.81 | 717 | 2.26 | 0.30 | 39.2 |
| 4/16/2015 18:06:25 | 41.34 | 41.14 | 720 | 2.26 | 0.30 | 39.4 |
| 4/16/2015 18:06:26 | 41.67 | 41.47 | 723 | 2.27 | 0.30 | 39.5 |
| 4/16/2015 18:06:26 | 41.99 | 41.79 | 720 | 2.25 | 0.30 | 39.4 |
| 4/16/2015 18:06:27 | 42.32 | 42.12 | 720 | 2.25 | 0.30 | 39.4 |
| 4/16/2015 18:06:27 | 42.65 | 42.45 | 715 | 2.25 | 0.30 | 39.1 |
| 4/16/2015 18:06:28 | 42.98 | 42.78 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:29 | 43.31 | 43.11 | 717 | 2.26 | 0.30 | 39.2 |
| 4/16/2015 18:06:29 | 43.64 | 43.44 | 720 | 2.26 | 0.30 | 39.4 |
| 4/16/2015 18:06:30 | 43.96 | 43.76 | 717 | 2.25 | 0.30 | 39.2 |
| 4/16/2015 18:06:30 | 44.29 | 44.09 | 723 | 2.25 | 0.30 | 39.5 |
| 4/16/2015 18:06:31 | 44.62 | 44.42 | 717 | 2.36 | 0.30 | 39.2 |
| 4/16/2015 18:06:49 | 44.95 | 44.75 | 78 | 2.50 | 1.24 | 4.3 |
| 4/16/2015 18:06:53 | 45.28 | 45.08 | 95 | 2.50 | 1.27 | 5.2 |
| 4/16/2015 18:06:57 | 45.60 | 45.40 | 84 | 2.50 | 1.29 | 4.6 |
| 4/16/2015 18:07:01 | 45.93 | 45.73 | 92 | 2.52 | 1.25 | 5.1 |
| 4/16/2015 18:07:04 | 46.26 | 46.06 | 95 | 2.54 | 1.27 | 5.2 |
| 4/16/2015 18:07:08 | 46.59 | 46.39 | 98 | 2.50 | 1.25 | 5.4 |
| 4/16/2015 18:07:12 | 46.92 | 46.72 | 80 | 2.50 | 1.27 | 4.4 |
| 4/16/2015 18:07:17 | 47.24 | 47.04 | 74 | 2.52 | 1.36 | 4.0 |
| 4/16/2015 18:07:22 | 47.57 | 47.37 | 78 | 2.50 | 1.34 | 4.3 |
| 4/16/2015 18:07:26 | 47.90 | 47.70 | 69 | 2.52 | 1.30 | 3.8 |
| 4/16/2015 18:07:32 | 48.23 | 48.03 | 68 | 2.50 | 1.32 | 3.7 |
| 4/16/2015 18:07:37 | 48.56 | 48.36 | 75 | 2.50 | 1.40 | 4.1 |
| 4/16/2015 18:07:43 | 48.83 | 48.63 | 40 | 2.52 | 1.43 | 2.2 |

## A80 - Summary

**Pattern Number:**
AreaA_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:03:59

**End Date:**
4/16/2015 18:09:46

**Operator Note:**
'0.2 ..4 c Auto Complete'

**Northing:**
371,168.95

**Easting:**
259,868.30

**Tide (feet):**
0.20



## Hole: A81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:19:51 | 34.78 | 30.18 | 1,128 | 0.48 | 0.33 | 61.7 |
| 4/15/2015 13:19:51 | 35.11 | 30.51 | 1,128 | 0.48 | 0.33 | 61.7 |
| 4/15/2015 13:19:51 | 35.43 | 30.83 | 1,125 | 0.48 | 0.34 | 61.5 |
| 4/15/2015 13:19:52 | 35.76 | 31.16 | 1,132 | 0.48 | 0.34 | 61.9 |
| 4/15/2015 13:19:52 | 36.09 | 31.49 | 1,132 | 0.48 | 0.34 | 61.9 |
| 4/15/2015 13:19:52 | 36.42 | 31.82 | 1,118 | 0.48 | 0.33 | 61.1 |
| 4/15/2015 13:19:53 | 36.75 | 32.15 | 1,118 | 0.48 | 0.33 | 61.1 |
| 4/15/2015 13:19:53 | 37.07 | 32.47 | 1,125 | 0.48 | 0.27 | 61.5 |
| 4/15/2015 13:19:53 | 37.40 | 32.80 | 1,122 | 0.48 | 0.34 | 61.3 |
| 4/15/2015 13:19:54 | 37.73 | 33.13 | 1,122 | 0.48 | 0.34 | 61.3 |
| 4/15/2015 13:19:54 | 38.06 | 33.46 | 1,122 | 0.48 | 0.33 | 61.3 |
| 4/15/2015 13:19:54 | 38.39 | 33.79 | 1,122 | 0.48 | 0.33 | 61.3 |
| 4/15/2015 13:19:54 | 38.71 | 34.11 | 1,125 | 0.47 | 0.33 | 61.5 |
| 4/15/2015 13:19:55 | 39.04 | 34.44 | 1,134 | 0.48 | 0.33 | 62.0 |
| 4/15/2015 13:19:55 | 39.37 | 34.77 | 1,134 | 0.48 | 0.33 | 62.0 |
| 4/15/2015 13:19:55 | 39.70 | 35.10 | 1,127 | 0.48 | 0.34 | 61.6 |
| 4/15/2015 13:19:56 | 40.03 | 35.43 | 1,127 | 0.48 | 0.34 | 61.6 |
| 4/15/2015 13:19:56 | 40.35 | 35.75 | 1,125 | 0.47 | 0.34 | 61.5 |
| 4/15/2015 13:19:56 | 40.68 | 36.08 | 1,111 | 0.47 | 0.34 | 60.8 |
| 4/15/2015 13:19:57 | 41.01 | 36.41 | 1,111 | 0.47 | 0.34 | 60.8 |
| 4/15/2015 13:19:57 | 41.34 | 36.74 | 1,122 | 0.47 | 0.34 | 61.4 |
| 4/15/2015 13:19:57 | 41.67 | 37.07 | 1,113 | 0.47 | 0.33 | 60.8 |
| 4/15/2015 13:19:58 | 41.99 | 37.39 | 1,113 | 0.47 | 0.33 | 60.8 |
| 4/15/2015 13:19:58 | 42.32 | 37.72 | 1,116 | 0.47 | 0.34 | 61.1 |
| 4/15/2015 13:19:58 | 42.65 | 38.05 | 1,116 | 0.47 | 0.34 | 61.1 |
| 4/15/2015 13:19:58 | 42.98 | 38.38 | 1,116 | 0.47 | 0.33 | 61.0 |
| 4/15/2015 13:19:59 | 43.31 | 38.71 | 1,136 | 0.47 | 0.34 | 62.1 |
| 4/15/2015 13:19:59 | 43.64 | 39.04 | 1,136 | 0.47 | 0.34 | 62.1 |
| 4/15/2015 13:19:59 | 43.96 | 39.36 | 1,125 | 0.47 | 0.34 | 61.5 |
| 4/15/2015 13:20:00 | 44.29 | 39.69 | 1,125 | 0.47 | 0.34 | 61.5 |
| 4/15/2015 13:20:00 | 44.62 | 40.02 | 1,125 | 0.47 | 0.33 | 61.5 |
| 4/15/2015 13:20:01 | 44.95 | 40.35 | 1,118 | 0.47 | 0.33 | 61.2 |
| 4/15/2015 13:20:01 | 45.28 | 40.68 | 1,118 | 0.47 | 0.33 | 61.2 |
| 4/15/2015 13:20:01 | 45.60 | 41.00 | 1,132 | 0.47 | 0.34 | 61.9 |
| 4/15/2015 13:20:02 | 45.93 | 41.33 | 1,132 | 0.47 | 0.34 | 61.9 |
| 4/15/2015 13:20:02 | 46.26 | 41.66 | 1,122 | 0.47 | 0.35 | 61.3 |
| 4/15/2015 13:20:02 | 46.59 | 41.99 | 1,110 | 0.46 | 0.37 | 60.7 |
| 4/15/2015 13:20:03 | 46.92 | 42.32 | 1,069 | 0.47 | 0.38 | 58.4 |
| 4/15/2015 13:20:03 | 47.24 | 42.64 | 1,069 | 0.47 | 0.38 | 58.4 |
| 4/15/2015 13:20:03 | 47.57 | 42.97 | 1,069 | 0.47 | 0.37 | 58.4 |
| 4/15/2015 13:20:04 | 47.90 | 43.30 | 1,013 | 0.47 | 0.37 | 55.4 |
| 4/15/2015 13:20:04 | 48.23 | 43.63 | 929 | 0.47 | 0.37 | 50.8 |
| 4/15/2015 13:20:05 | 48.56 | 43.96 | 852 | 0.47 | 0.36 | 46.6 |
| 4/15/2015 13:20:05 | 48.88 | 44.28 | 786 | 0.47 | 0.36 | 43.0 |
| 4/15/2015 13:20:06 | 49.21 | 44.61 | 753 | 0.48 | 0.40 | 41.2 |
| 4/15/2015 13:20:35 | 49.54 | 44.94 | 0 | 1.68 | 0.34 | 0.0 |
| 4/15/2015 13:20:36 | 49.87 | 45.27 | 162 | 1.68 | 0.37 | 8.8 |
| 4/15/2015 13:20:57 | 50.20 | 45.60 | 3 | 3.14 | 0.23 | 0.2 |
| 4/15/2015 13:20:59 | 50.53 | 45.93 | 126 | 2.76 | 0.38 | 6.9 |
| 4/15/2015 13:21:01 | 50.85 | 46.25 | 172 | 3.26 | 0.45 | 9.4 |
| 4/15/2015 13:21:05 | 51.18 | 46.58 | 62 | 3.60 | 0.46 | 3.4 |
| 4/15/2015 13:21:06 | 51.51 | 46.91 | 166 | 3.51 | 0.46 | 9.1 |
| 4/15/2015 13:21:07 | 51.84 | 47.24 | 287 | 2.47 | 0.47 | 15.7 |
| 4/15/2015 13:21:08 | 52.17 | 47.57 | 283 | 2.67 | 0.43 | 15.5 |
| 4/15/2015 13:21:09 | 52.49 | 47.89 | 295 | 2.54 | 0.45 | 16.2 |
| 4/15/2015 13:21:10 | 52.82 | 48.22 | 361 | 2.74 | 0.45 | 19.8 |
| 4/15/2015 13:21:11 | 53.15 | 48.55 | 321 | 2.95 | 0.46 | 17.5 |
| 4/15/2015 13:21:15 | 53.48 | 48.88 | 73 | 2.61 | 0.41 | 4.0 |
| 4/15/2015 13:21:15 | 53.81 | 49.21 | 114 | 2.99 | 0.43 | 6.3 |
| 4/15/2015 13:21:16 | 54.13 | 49.53 | 266 | 2.91 | 0.43 | 14.6 |
| 4/15/2015 13:21:17 | 54.46 | 49.86 | 366 | 2.93 | 0.42 | 20.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 13:21:18 | 54.79 | 50.19 | 446 | 2.73 | 0.42 | 24.4 |
| 4/15/2015 | 13:21:19 | 55.12 | 50.52 | 466 | 2.62 | 0.42 | 25.5 |
| 4/15/2015 | 13:21:19 | 55.45 | 50.85 | 460 | 3.16 | 0.46 | 25.1 |
| 4/15/2015 | 13:21:25 | 55.77 | 51.17 | 115 | 3.60 | 0.49 | 6.3 |
| 4/15/2015 | 13:21:31 | 56.10 | 51.50 | 66 | 3.58 | 0.49 | 3.6 |
| 4/15/2015 | 13:21:37 | 56.43 | 51.83 | 59 | 3.55 | 0.48 | 3.3 |
| 4/15/2015 | 13:21:43 | 56.76 | 52.16 | 49 | 3.67 | 0.48 | 2.7 |
| 4/15/2015 | 13:21:51 | 57.09 | 52.49 | 43 | 3.65 | 0.48 | 2.4 |
| 4/15/2015 | 13:22:00 | 57.41 | 52.81 | 43 | 3.66 | 0.49 | 2.4 |
| 4/15/2015 | 13:22:08 | 57.74 | 53.14 | 41 | 3.80 | 0.49 | 2.2 |
| 4/15/2015 | 13:22:18 | 58.07 | 53.47 | 41 | 3.76 | 0.48 | 2.2 |
| 4/15/2015 | 13:22:27 | 58.40 | 53.80 | 38 | 3.77 | 0.48 | 2.1 |
| 4/15/2015 | 13:22:36 | 58.73 | 54.13 | 41 | 3.91 | 0.49 | 2.2 |
| 4/15/2015 | 13:22:45 | 59.06 | 54.46 | 44 | 3.56 | 0.50 | 2.4 |
| 4/15/2015 | 13:22:53 | 59.38 | 54.78 | 46 | 3.62 | 0.48 | 2.5 |
| 4/15/2015 | 13:23:01 | 59.71 | 55.11 | 52 | 3.55 | 0.47 | 2.8 |
| 4/15/2015 | 13:23:08 | 60.01 | 55.41 | 15 | 2.57 | 0.16 | 0.8 |

## A81 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:17:44

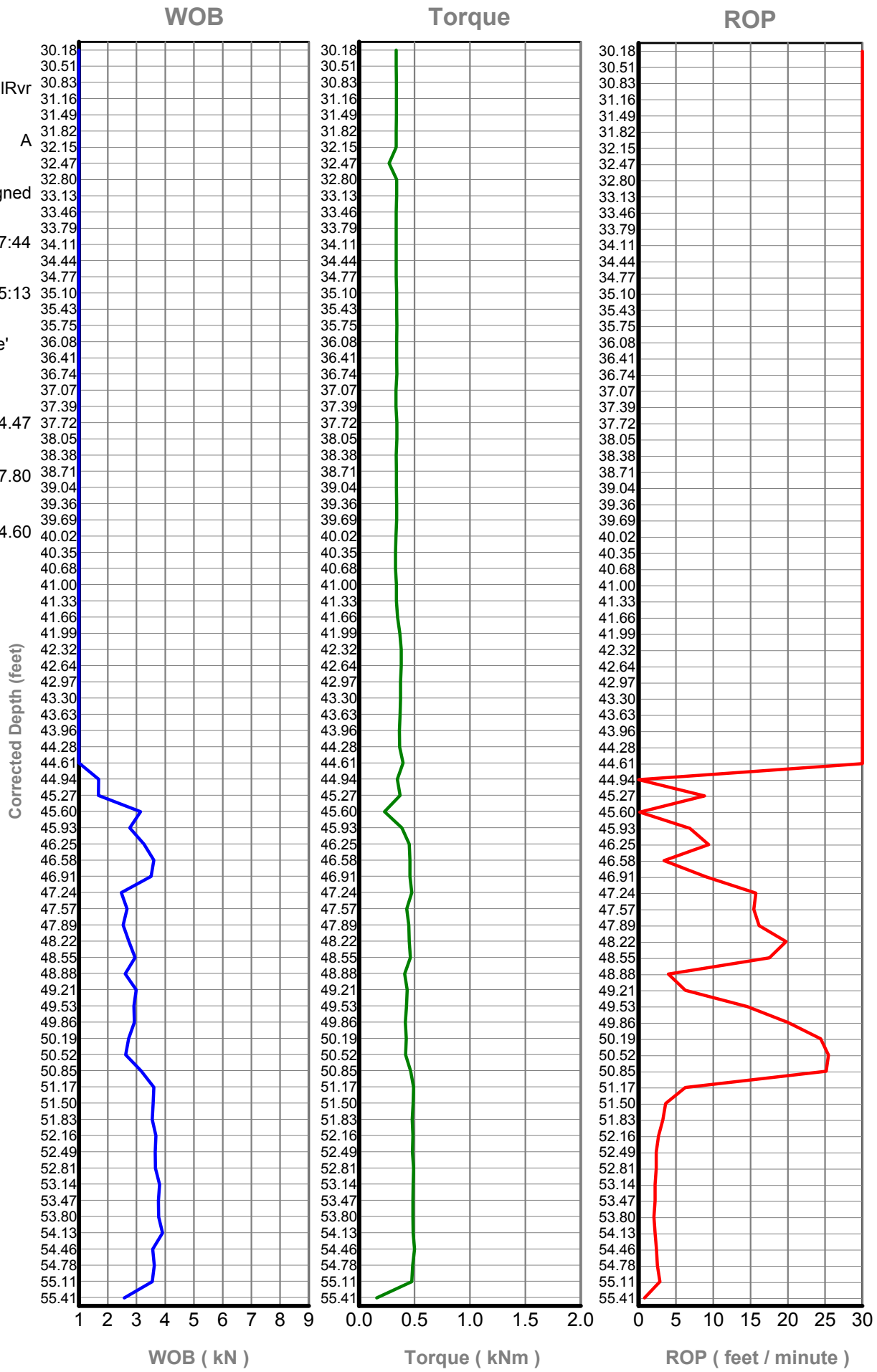
**End Date:**
4/15/2015 13:25:13

**Operator Note:**
'4.6 5.0 a Auto Complete'

**Northing:**
371,164.47

**Easting:**
259,947.80

**Tide (feet):**
4.60



## Hole: A82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 13:17:45 | 34.78 | 30.08 | 801 | 0.29 | 0.42 | 43.8 |
| 4/16/2015 13:17:46 | 35.11 | 30.41 | 806 | 0.29 | 0.42 | 44.1 |
| 4/16/2015 13:17:46 | 35.43 | 30.73 | 802 | 0.29 | 0.42 | 43.9 |
| 4/16/2015 13:17:47 | 35.76 | 31.06 | 804 | 0.29 | 0.42 | 43.9 |
| 4/16/2015 13:17:47 | 36.09 | 31.39 | 805 | 0.29 | 0.42 | 44.0 |
| 4/16/2015 13:17:48 | 36.42 | 31.72 | 803 | 0.29 | 0.42 | 43.9 |
| 4/16/2015 13:17:48 | 36.75 | 32.05 | 799 | 0.29 | 0.42 | 43.7 |
| 4/16/2015 13:17:49 | 37.07 | 32.37 | 799 | 0.29 | 0.42 | 43.7 |
| 4/16/2015 13:17:49 | 37.40 | 32.70 | 797 | 0.29 | 0.42 | 43.6 |
| 4/16/2015 13:17:49 | 37.73 | 33.03 | 797 | 0.29 | 0.42 | 43.6 |
| 4/16/2015 13:17:50 | 38.06 | 33.36 | 803 | 0.29 | 0.42 | 43.9 |
| 4/16/2015 13:17:50 | 38.39 | 33.69 | 810 | 0.29 | 0.42 | 44.3 |
| 4/16/2015 13:17:51 | 38.71 | 34.01 | 811 | 0.29 | 0.42 | 44.4 |
| 4/16/2015 13:17:51 | 39.04 | 34.34 | 811 | 0.29 | 0.42 | 44.4 |
| 4/16/2015 13:17:51 | 39.37 | 34.67 | 811 | 0.29 | 0.42 | 44.4 |
| 4/16/2015 13:17:52 | 39.70 | 35.00 | 811 | 0.29 | 0.42 | 44.4 |
| 4/16/2015 13:17:52 | 40.03 | 35.33 | 811 | 0.29 | 0.42 | 44.4 |
| 4/16/2015 13:17:53 | 40.35 | 35.65 | 807 | 0.29 | 0.42 | 44.1 |
| 4/16/2015 13:17:53 | 40.68 | 35.98 | 806 | 0.29 | 0.42 | 44.1 |
| 4/16/2015 13:17:54 | 41.01 | 36.31 | 797 | 0.29 | 0.42 | 43.6 |
| 4/16/2015 13:17:55 | 41.34 | 36.64 | 797 | 0.29 | 0.42 | 43.6 |
| 4/16/2015 13:17:55 | 41.67 | 36.97 | 797 | 0.29 | 0.42 | 43.6 |
| 4/16/2015 13:17:55 | 41.99 | 37.29 | 793 | 0.29 | 0.42 | 43.4 |
| 4/16/2015 13:17:56 | 42.32 | 37.62 | 794 | 0.29 | 0.42 | 43.4 |
| 4/16/2015 13:17:56 | 42.65 | 37.95 | 796 | 0.29 | 0.42 | 43.5 |
| 4/16/2015 13:17:57 | 42.98 | 38.28 | 803 | 0.29 | 0.42 | 43.9 |
| 4/16/2015 13:18:31 | 43.31 | 38.61 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 13:18:31 | 43.64 | 38.94 | 114 | 0.29 | 0.42 | 6.2 |
| 4/16/2015 13:18:32 | 43.96 | 39.26 | 278 | 0.29 | 0.42 | 15.2 |
| 4/16/2015 13:18:32 | 44.29 | 39.59 | 434 | 0.29 | 0.42 | 23.7 |
| 4/16/2015 13:18:33 | 44.62 | 39.92 | 582 | 0.29 | 0.42 | 31.8 |
| 4/16/2015 13:18:33 | 44.95 | 40.25 | 732 | 0.29 | 0.42 | 40.0 |
| 4/16/2015 13:18:34 | 45.28 | 40.58 | 773 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:34 | 45.60 | 40.90 | 771 | 0.29 | 0.42 | 42.1 |
| 4/16/2015 13:18:35 | 45.93 | 41.23 | 771 | 0.29 | 0.42 | 42.1 |
| 4/16/2015 13:18:35 | 46.26 | 41.56 | 773 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:35 | 46.59 | 41.89 | 774 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:36 | 46.92 | 42.22 | 773 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:36 | 47.24 | 42.54 | 773 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:37 | 47.57 | 42.87 | 774 | 0.29 | 0.42 | 42.3 |
| 4/16/2015 13:18:37 | 47.90 | 43.20 | 780 | 0.29 | 0.42 | 42.6 |
| 4/16/2015 13:18:38 | 48.23 | 43.53 | 782 | 0.29 | 0.42 | 42.8 |
| 4/16/2015 13:18:38 | 48.56 | 43.86 | 782 | 0.29 | 0.42 | 42.8 |
| 4/16/2015 13:18:38 | 48.88 | 44.18 | 791 | 0.29 | 0.42 | 43.3 |
| 4/16/2015 13:18:39 | 49.21 | 44.51 | 786 | 0.29 | 0.42 | 43.0 |
| 4/16/2015 13:20:50 | 49.54 | 44.84 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 13:21:18 | 49.87 | 45.17 | 9 | 0.29 | 0.42 | 0.5 |
| 4/16/2015 13:21:20 | 50.20 | 45.50 | 158 | 0.29 | 0.42 | 8.6 |
| 4/16/2015 13:21:21 | 50.53 | 45.83 | 246 | 0.29 | 0.42 | 13.5 |
| 4/16/2015 13:21:34 | 50.85 | 46.15 | 111 | 0.29 | 0.42 | 6.1 |
| 4/16/2015 13:21:36 | 51.18 | 46.48 | 180 | 0.29 | 0.42 | 9.9 |
| 4/16/2015 13:21:38 | 51.51 | 46.81 | 183 | 0.29 | 0.42 | 10.0 |
| 4/16/2015 13:21:40 | 51.84 | 47.14 | 192 | 0.29 | 0.42 | 10.5 |
| 4/16/2015 13:21:42 | 52.17 | 47.47 | 185 | 0.29 | 0.42 | 10.1 |
| 4/16/2015 13:21:43 | 52.49 | 47.79 | 206 | 0.29 | 0.42 | 11.3 |
| 4/16/2015 13:21:45 | 52.82 | 48.12 | 235 | 0.29 | 0.42 | 12.9 |
| 4/16/2015 13:21:46 | 53.15 | 48.45 | 285 | 0.29 | 0.42 | 15.6 |
| 4/16/2015 13:21:46 | 53.48 | 48.78 | 326 | 0.29 | 0.42 | 17.8 |
| 4/16/2015 13:21:47 | 53.81 | 49.11 | 369 | 0.29 | 0.42 | 20.2 |
| 4/16/2015 13:21:48 | 54.13 | 49.43 | 488 | 0.29 | 0.42 | 26.7 |
| 4/16/2015 13:21:49 | 54.46 | 49.76 | 369 | 0.29 | 0.42 | 20.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 13:21:51 | 54.79 | 50.09 | 206 | 0.29 | 0.42 | 11.3 |
| 4/16/2015 | 13:21:53 | 55.12 | 50.42 | 209 | 0.29 | 0.42 | 11.5 |
| 4/16/2015 | 13:21:54 | 55.45 | 50.75 | 231 | 0.29 | 0.42 | 12.7 |
| 4/16/2015 | 13:21:56 | 55.77 | 51.07 | 230 | 0.29 | 0.42 | 12.6 |
| 4/16/2015 | 13:21:57 | 56.10 | 51.40 | 236 | 0.29 | 0.42 | 12.9 |
| 4/16/2015 | 13:21:59 | 56.43 | 51.73 | 227 | 0.29 | 0.42 | 12.4 |
| 4/16/2015 | 13:22:01 | 56.76 | 52.06 | 212 | 0.29 | 0.42 | 11.6 |
| 4/16/2015 | 13:22:03 | 57.09 | 52.39 | 207 | 0.29 | 0.42 | 11.3 |
| 4/16/2015 | 13:22:04 | 57.41 | 52.71 | 218 | 0.29 | 0.42 | 11.9 |
| 4/16/2015 | 13:22:06 | 57.74 | 53.04 | 189 | 0.29 | 0.42 | 10.3 |
| 4/16/2015 | 13:22:09 | 58.07 | 53.37 | 159 | 0.29 | 0.42 | 8.7 |
| 4/16/2015 | 13:22:11 | 58.40 | 53.70 | 122 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 | 13:22:15 | 58.73 | 54.03 | 134 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 | 13:22:17 | 59.06 | 54.36 | 137 | 0.29 | 0.42 | 7.5 |
| 4/16/2015 | 13:22:19 | 59.38 | 54.68 | 154 | 0.29 | 0.42 | 8.4 |
| 4/16/2015 | 13:22:21 | 59.71 | 55.01 | 154 | 0.29 | 0.42 | 8.4 |
| 4/16/2015 | 13:22:24 | 60.04 | 55.34 | 141 | 0.29 | 0.42 | 7.7 |
| 4/16/2015 | 13:22:25 | 60.08 | 55.38 | 125 | 0.29 | 0.42 | 6.8 |

## A82 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:14:28

**End Date:**
4/16/2015 13:23:50

**Operator Note:**
'4.7 Auto Complete'

**Northing:**
371,162.09

**Easting:**
260,022.76

**Tide (feet):**
4.70



## Hole: A83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 13:23:59 | 34.78 | 30.18 | 1,447 | 3.33 | 0.13 | 79.1 |
| 4/16/2015 13:24:00 | 35.11 | 30.51 | 1,447 | 3.33 | 0.13 | 79.1 |
| 4/16/2015 13:24:00 | 35.43 | 30.83 | 1,447 | 3.33 | 0.13 | 79.1 |
| 4/16/2015 13:24:00 | 35.76 | 31.16 | 1,458 | 3.33 | 0.13 | 79.8 |
| 4/16/2015 13:24:01 | 36.09 | 31.49 | 1,458 | 3.33 | 0.13 | 79.8 |
| 4/16/2015 13:24:01 | 36.42 | 31.82 | 1,447 | 3.31 | 0.13 | 79.1 |
| 4/16/2015 13:24:01 | 36.75 | 32.15 | 1,447 | 3.31 | 0.13 | 79.1 |
| 4/16/2015 13:24:01 | 37.07 | 32.47 | 1,407 | 3.38 | 0.13 | 76.9 |
| 4/16/2015 13:24:02 | 37.40 | 32.80 | 1,407 | 3.38 | 0.13 | 76.9 |
| 4/16/2015 13:24:02 | 37.73 | 33.13 | 1,407 | 3.38 | 0.13 | 76.9 |
| 4/16/2015 13:24:02 | 38.06 | 33.46 | 1,407 | 3.30 | 0.13 | 76.9 |
| 4/16/2015 13:24:02 | 38.39 | 33.79 | 1,407 | 3.30 | 0.13 | 76.9 |
| 4/16/2015 13:24:02 | 38.71 | 34.11 | 1,473 | 3.32 | 0.13 | 80.5 |
| 4/16/2015 13:24:03 | 39.04 | 34.44 | 1,473 | 3.32 | 0.13 | 80.5 |
| 4/16/2015 13:24:03 | 39.37 | 34.77 | 1,460 | 3.33 | 0.13 | 79.8 |
| 4/16/2015 13:24:03 | 39.70 | 35.10 | 1,460 | 3.33 | 0.13 | 79.8 |
| 4/16/2015 13:24:03 | 40.03 | 35.43 | 1,411 | 3.35 | 0.13 | 77.2 |
| 4/16/2015 13:24:04 | 40.35 | 35.75 | 1,411 | 3.35 | 0.13 | 77.2 |
| 4/16/2015 13:24:04 | 40.68 | 36.08 | 1,411 | 3.34 | 0.13 | 77.2 |
| 4/16/2015 13:24:04 | 41.01 | 36.41 | 1,411 | 3.34 | 0.13 | 77.2 |
| 4/16/2015 13:24:04 | 41.34 | 36.74 | 1,442 | 3.32 | 0.14 | 78.9 |
| 4/16/2015 13:24:05 | 41.67 | 37.07 | 1,442 | 3.32 | 0.14 | 78.9 |
| 4/16/2015 13:24:05 | 41.99 | 37.39 | 1,479 | 3.37 | 0.13 | 80.9 |
| 4/16/2015 13:24:05 | 42.32 | 37.72 | 1,479 | 3.37 | 0.13 | 80.9 |
| 4/16/2015 13:24:05 | 42.65 | 38.05 | 1,479 | 3.37 | 0.13 | 80.9 |
| 4/16/2015 13:24:06 | 42.98 | 38.38 | 1,457 | 3.33 | 0.13 | 79.7 |
| 4/16/2015 13:24:06 | 43.31 | 38.71 | 1,457 | 3.33 | 0.13 | 79.7 |
| 4/16/2015 13:24:06 | 43.64 | 39.04 | 1,445 | 3.36 | 0.13 | 79.0 |
| 4/16/2015 13:24:06 | 43.96 | 39.36 | 1,445 | 3.36 | 0.13 | 79.0 |
| 4/16/2015 13:24:07 | 44.29 | 39.69 | 1,485 | 3.33 | 0.13 | 81.2 |
| 4/16/2015 13:24:07 | 44.62 | 40.02 | 1,485 | 3.33 | 0.13 | 81.2 |
| 4/16/2015 13:24:07 | 44.95 | 40.35 | 1,466 | 3.37 | 0.13 | 80.1 |
| 4/16/2015 13:24:07 | 45.28 | 40.68 | 1,466 | 3.37 | 0.13 | 80.1 |
| 4/16/2015 13:24:08 | 45.60 | 41.00 | 1,463 | 3.37 | 0.13 | 80.0 |
| 4/16/2015 13:24:08 | 45.93 | 41.33 | 1,463 | 3.37 | 0.13 | 80.0 |
| 4/16/2015 13:24:08 | 46.26 | 41.66 | 1,454 | 3.31 | 0.13 | 79.5 |
| 4/16/2015 13:24:08 | 46.59 | 41.99 | 1,454 | 3.31 | 0.13 | 79.5 |
| 4/16/2015 13:24:09 | 46.92 | 42.32 | 1,466 | 3.37 | 0.13 | 80.1 |
| 4/16/2015 13:24:09 | 47.24 | 42.64 | 1,466 | 3.37 | 0.13 | 80.1 |
| 4/16/2015 13:24:09 | 47.57 | 42.97 | 1,466 | 3.37 | 0.13 | 80.1 |
| 4/16/2015 13:24:09 | 47.90 | 43.30 | 1,471 | 3.33 | 0.13 | 80.5 |
| 4/16/2015 13:24:09 | 48.23 | 43.63 | 1,471 | 3.33 | 0.13 | 80.5 |
| 4/16/2015 13:24:10 | 48.56 | 43.96 | 1,457 | 3.52 | 0.13 | 79.7 |
| 4/16/2015 13:24:36 | 48.88 | 44.28 | 76 | 3.56 | 0.97 | 4.1 |
| 4/16/2015 13:24:37 | 49.21 | 44.61 | 154 | 3.45 | 1.14 | 8.4 |
| 4/16/2015 13:24:38 | 49.54 | 44.94 | 235 | 3.44 | 1.18 | 12.9 |
| 4/16/2015 13:24:38 | 49.87 | 45.27 | 345 | 3.48 | 1.34 | 18.9 |
| 4/16/2015 13:24:39 | 50.20 | 45.60 | 450 | 3.53 | 1.08 | 24.6 |
| 4/16/2015 13:24:39 | 50.53 | 45.93 | 564 | 3.51 | 1.12 | 30.8 |
| 4/16/2015 13:24:40 | 50.85 | 46.25 | 676 | 3.54 | 1.21 | 37.0 |
| 4/16/2015 13:24:40 | 51.18 | 46.58 | 674 | 3.53 | 1.15 | 36.8 |
| 4/16/2015 13:24:41 | 51.51 | 46.91 | 601 | 3.60 | 1.32 | 32.9 |
| 4/16/2015 13:24:43 | 51.84 | 47.24 | 471 | 3.57 | 1.34 | 25.8 |
| 4/16/2015 13:24:44 | 52.17 | 47.57 | 364 | 3.63 | 1.36 | 19.9 |
| 4/16/2015 13:24:45 | 52.49 | 47.89 | 292 | 3.57 | 1.23 | 16.0 |
| 4/16/2015 13:24:46 | 52.82 | 48.22 | 284 | 3.57 | 1.31 | 15.5 |
| 4/16/2015 13:24:48 | 53.15 | 48.55 | 280 | 3.56 | 1.32 | 15.3 |
| 4/16/2015 13:24:48 | 53.48 | 48.88 | 283 | 3.51 | 1.23 | 15.5 |
| 4/16/2015 13:24:49 | 53.81 | 49.21 | 330 | 3.52 | 1.18 | 18.0 |
| 4/16/2015 13:24:50 | 54.13 | 49.53 | 408 | 3.53 | 1.25 | 22.3 |
| 4/16/2015 13:24:55 | 54.46 | 49.86 | 0 | 3.50 | 1.17 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 13:24:57 | 54.79 | 50.19 | 164 | 3.58 | 1.48 | 8.9 |
| 4/16/2015 | 13:25:03 | 55.12 | 50.52 | 41 | 3.54 | 1.31 | 2.2 |
| 4/16/2015 | 13:25:04 | 55.45 | 50.85 | 132 | 3.54 | 1.25 | 7.2 |
| 4/16/2015 | 13:25:04 | 55.77 | 51.17 | 243 | 3.54 | 1.14 | 13.3 |
| 4/16/2015 | 13:25:05 | 56.10 | 51.50 | 320 | 3.53 | 1.06 | 17.5 |
| 4/16/2015 | 13:25:06 | 56.43 | 51.83 | 508 | 3.54 | 1.06 | 27.8 |
| 4/16/2015 | 13:25:06 | 56.76 | 52.16 | 514 | 3.54 | 1.07 | 28.1 |
| 4/16/2015 | 13:25:07 | 57.09 | 52.49 | 497 | 3.54 | 1.05 | 27.2 |
| 4/16/2015 | 13:25:08 | 57.41 | 52.81 | 494 | 3.55 | 1.05 | 27.0 |
| 4/16/2015 | 13:25:08 | 57.74 | 53.14 | 494 | 3.55 | 1.09 | 27.0 |
| 4/16/2015 | 13:25:09 | 58.07 | 53.47 | 492 | 3.56 | 1.06 | 26.9 |
| 4/16/2015 | 13:25:10 | 58.40 | 53.80 | 497 | 3.57 | 1.07 | 27.2 |
| 4/16/2015 | 13:25:11 | 58.73 | 54.13 | 483 | 3.54 | 1.10 | 26.4 |
| 4/16/2015 | 13:25:11 | 59.06 | 54.46 | 474 | 3.56 | 1.15 | 25.9 |
| 4/16/2015 | 13:25:12 | 59.38 | 54.78 | 439 | 3.55 | 1.12 | 24.0 |
| 4/16/2015 | 13:25:13 | 59.71 | 55.11 | 436 | 3.56 | 1.07 | 23.9 |
| 4/16/2015 | 13:25:45 | 60.04 | 55.44 | 0 | 3.55 | 1.19 | 0.0 |
| 4/16/2015 | 13:25:47 | 60.37 | 55.77 | 144 | 3.04 | 1.14 | 7.9 |
| 4/16/2015 | 13:25:49 | 60.59 | 55.99 | 130 | 3.00 | 1.13 | 7.1 |

## A83 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:19:02

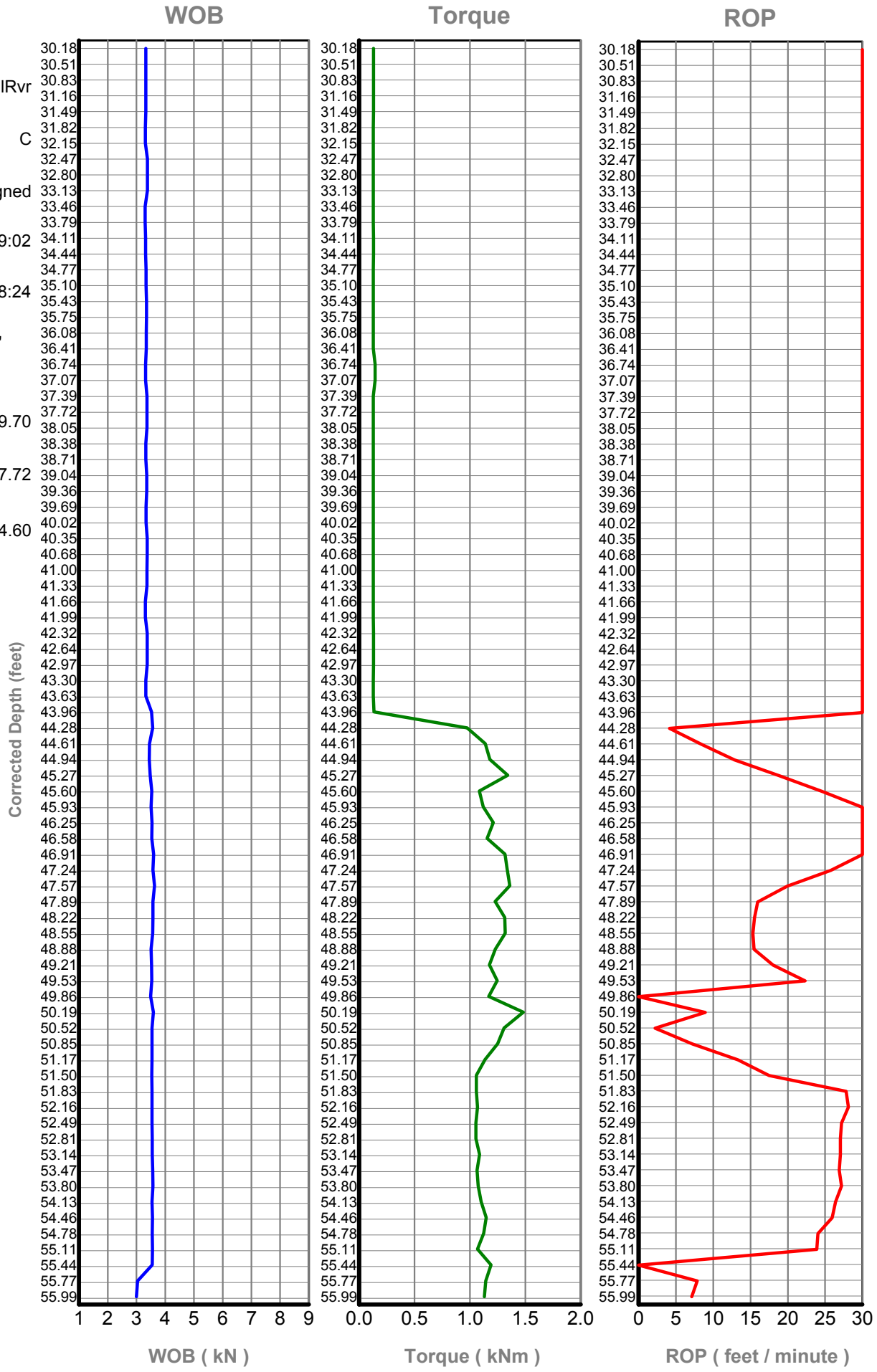
**End Date:**
4/16/2015 13:28:24

**Operator Note:**
'4.6 5. C Auto Complete'

**Northing:**
371,159.70

**Easting:**
260,097.72

**Tide (feet):**
4.60



## Hole: A84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:00:12 | 34.12 | 30.22 | 1,022 | 2.60 | 0.13 | 55.9 |
| 4/16/2015 14:00:12 | 34.45 | 30.55 | 1,022 | 2.60 | 0.13 | 55.9 |
| 4/16/2015 14:00:12 | 34.78 | 30.88 | 990 | 2.57 | 0.13 | 54.1 |
| 4/16/2015 14:00:13 | 35.11 | 31.21 | 1,030 | 2.58 | 0.13 | 56.3 |
| 4/16/2015 14:00:13 | 35.43 | 31.53 | 1,030 | 2.58 | 0.13 | 56.3 |
| 4/16/2015 14:00:13 | 35.76 | 31.86 | 1,039 | 2.60 | 0.13 | 56.8 |
| 4/16/2015 14:00:14 | 36.09 | 32.19 | 992 | 2.57 | 0.13 | 54.3 |
| 4/16/2015 14:00:14 | 36.42 | 32.52 | 992 | 2.57 | 0.13 | 54.3 |
| 4/16/2015 14:00:14 | 36.75 | 32.85 | 992 | 2.59 | 0.13 | 54.3 |
| 4/16/2015 14:00:15 | 37.07 | 33.17 | 1,002 | 2.60 | 0.13 | 54.8 |
| 4/16/2015 14:00:16 | 37.40 | 33.50 | 1,002 | 2.60 | 0.13 | 54.8 |
| 4/16/2015 14:00:16 | 37.73 | 33.83 | 1,002 | 2.59 | 0.13 | 54.8 |
| 4/16/2015 14:00:16 | 38.06 | 34.16 | 983 | 2.61 | 0.13 | 53.8 |
| 4/16/2015 14:00:17 | 38.39 | 34.49 | 983 | 2.61 | 0.13 | 53.8 |
| 4/16/2015 14:00:17 | 38.71 | 34.81 | 983 | 2.61 | 0.13 | 53.8 |
| 4/16/2015 14:00:17 | 39.04 | 35.14 | 992 | 2.60 | 0.13 | 54.2 |
| 4/16/2015 14:00:18 | 39.37 | 35.47 | 1,003 | 2.60 | 0.13 | 54.9 |
| 4/16/2015 14:00:18 | 39.70 | 35.80 | 1,003 | 2.60 | 0.13 | 54.9 |
| 4/16/2015 14:00:18 | 40.03 | 36.13 | 988 | 2.59 | 0.13 | 54.0 |
| 4/16/2015 14:00:19 | 40.35 | 36.45 | 988 | 2.60 | 0.13 | 54.0 |
| 4/16/2015 14:00:19 | 40.68 | 36.78 | 988 | 2.60 | 0.13 | 54.0 |
| 4/16/2015 14:00:19 | 41.01 | 37.11 | 1,019 | 2.61 | 0.13 | 55.7 |
| 4/16/2015 14:00:20 | 41.34 | 37.44 | 1,019 | 2.61 | 0.13 | 55.7 |
| 4/16/2015 14:00:20 | 41.67 | 37.77 | 1,019 | 2.61 | 0.13 | 55.7 |
| 4/16/2015 14:00:20 | 41.99 | 38.09 | 1,013 | 2.60 | 0.13 | 55.4 |
| 4/16/2015 14:00:21 | 42.32 | 38.42 | 1,013 | 2.59 | 0.13 | 55.4 |
| 4/16/2015 14:00:21 | 42.65 | 38.75 | 1,013 | 2.59 | 0.13 | 55.4 |
| 4/16/2015 14:00:21 | 42.98 | 39.08 | 1,006 | 2.59 | 0.13 | 55.0 |
| 4/16/2015 14:00:22 | 43.31 | 39.41 | 1,011 | 2.58 | 0.13 | 55.3 |
| 4/16/2015 14:00:22 | 43.64 | 39.74 | 1,011 | 2.58 | 0.13 | 55.3 |
| 4/16/2015 14:00:22 | 43.96 | 40.06 | 1,011 | 2.61 | 0.13 | 55.3 |
| 4/16/2015 14:00:23 | 44.29 | 40.39 | 1,019 | 2.61 | 0.13 | 55.7 |
| 4/16/2015 14:00:23 | 44.62 | 40.72 | 1,019 | 2.61 | 0.13 | 55.7 |
| 4/16/2015 14:00:23 | 44.95 | 41.05 | 991 | 2.61 | 0.12 | 54.2 |
| 4/16/2015 14:00:24 | 45.28 | 41.38 | 997 | 2.59 | 0.13 | 54.5 |
| 4/16/2015 14:00:24 | 45.60 | 41.70 | 997 | 2.59 | 0.13 | 54.5 |
| 4/16/2015 14:00:24 | 45.93 | 42.03 | 997 | 2.60 | 0.13 | 54.5 |
| 4/16/2015 14:00:25 | 46.26 | 42.36 | 991 | 2.61 | 0.13 | 54.2 |
| 4/16/2015 14:00:25 | 46.59 | 42.69 | 991 | 2.61 | 0.13 | 54.2 |
| 4/16/2015 14:00:25 | 46.92 | 43.02 | 1,017 | 2.59 | 0.13 | 55.6 |
| 4/16/2015 14:00:26 | 47.24 | 43.34 | 1,016 | 2.59 | 0.13 | 55.5 |
| 4/16/2015 14:00:26 | 47.57 | 43.67 | 1,016 | 2.59 | 0.13 | 55.5 |
| 4/16/2015 14:00:27 | 47.90 | 44.00 | 1,026 | 2.59 | 0.13 | 56.1 |
| 4/16/2015 14:00:27 | 48.23 | 44.33 | 1,010 | 2.58 | 0.13 | 55.2 |
| 4/16/2015 14:00:28 | 48.56 | 44.66 | 1,010 | 2.60 | 0.13 | 55.2 |
| 4/16/2015 14:00:28 | 48.88 | 44.98 | 1,010 | 2.60 | 0.13 | 55.2 |
| 4/16/2015 14:00:28 | 49.21 | 45.31 | 998 | 2.59 | 0.13 | 54.6 |
| 4/16/2015 14:00:29 | 49.54 | 45.64 | 995 | 2.59 | 0.13 | 54.4 |
| 4/16/2015 14:00:29 | 49.87 | 45.97 | 995 | 2.59 | 0.13 | 54.4 |
| 4/16/2015 14:00:29 | 50.20 | 46.30 | 995 | 2.59 | 0.13 | 54.4 |
| 4/16/2015 14:00:30 | 50.53 | 46.63 | 992 | 2.61 | 0.13 | 54.2 |
| 4/16/2015 14:00:30 | 50.85 | 46.95 | 992 | 2.61 | 0.13 | 54.2 |
| 4/16/2015 14:00:30 | 51.18 | 47.28 | 992 | 2.82 | 0.13 | 54.2 |
| 4/16/2015 14:00:31 | 51.51 | 47.61 | 1,011 | 2.61 | 0.13 | 55.3 |
| 4/16/2015 14:00:31 | 51.84 | 47.94 | 1,011 | 2.61 | 0.13 | 55.3 |
| 4/16/2015 14:00:31 | 52.17 | 48.27 | 1,011 | 2.59 | 0.13 | 55.3 |
| 4/16/2015 14:00:32 | 52.49 | 48.59 | 1,014 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 14:00:32 | 52.82 | 48.92 | 1,014 | 2.63 | 0.13 | 55.4 |
| 4/16/2015 14:00:47 | 53.15 | 49.25 | 0 | 2.63 | 0.91 | 0.0 |
| 4/16/2015 14:00:48 | 53.48 | 49.58 | 70 | 2.70 | 1.11 | 3.8 |
| 4/16/2015 14:00:49 | 53.81 | 49.91 | 187 | 2.77 | 1.31 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:00:50 | 54.13 | 50.23 | 353 | 2.74 | 1.17 | 19.3 |
| 4/16/2015 | 14:00:51 | 54.46 | 50.56 | 437 | 2.72 | 1.16 | 23.9 |
| 4/16/2015 | 14:00:51 | 54.79 | 50.89 | 437 | 2.74 | 1.16 | 23.9 |
| 4/16/2015 | 14:00:52 | 55.12 | 51.22 | 409 | 2.77 | 1.16 | 22.4 |
| 4/16/2015 | 14:00:53 | 55.45 | 51.55 | 401 | 2.74 | 1.16 | 21.9 |
| 4/16/2015 | 14:00:56 | 55.77 | 51.87 | 170 | 2.84 | 1.20 | 9.3 |
| 4/16/2015 | 14:01:04 | 56.10 | 52.20 | 32 | 2.76 | 1.14 | 1.8 |
| 4/16/2015 | 14:01:05 | 56.43 | 52.53 | 90 | 2.71 | 1.11 | 4.9 |
| 4/16/2015 | 14:01:07 | 56.76 | 52.86 | 221 | 2.74 | 1.17 | 12.1 |
| 4/16/2015 | 14:01:11 | 57.09 | 53.19 | 67 | 2.85 | 1.21 | 3.6 |
| 4/16/2015 | 14:01:14 | 57.41 | 53.51 | 127 | 2.81 | 1.19 | 7.0 |
| 4/16/2015 | 14:01:15 | 57.74 | 53.84 | 171 | 2.84 | 1.20 | 9.3 |
| 4/16/2015 | 14:01:17 | 58.07 | 54.17 | 195 | 2.81 | 1.19 | 10.7 |
| 4/16/2015 | 14:01:18 | 58.40 | 54.50 | 233 | 2.82 | 1.19 | 12.7 |
| 4/16/2015 | 14:01:20 | 58.73 | 54.83 | 250 | 2.83 | 1.21 | 13.7 |
| 4/16/2015 | 14:01:23 | 59.06 | 55.16 | 76 | 2.79 | 1.23 | 4.1 |
| 4/16/2015 | 14:01:28 | 59.38 | 55.48 | 72 | 2.88 | 1.26 | 3.9 |

## A84 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 13:58:28

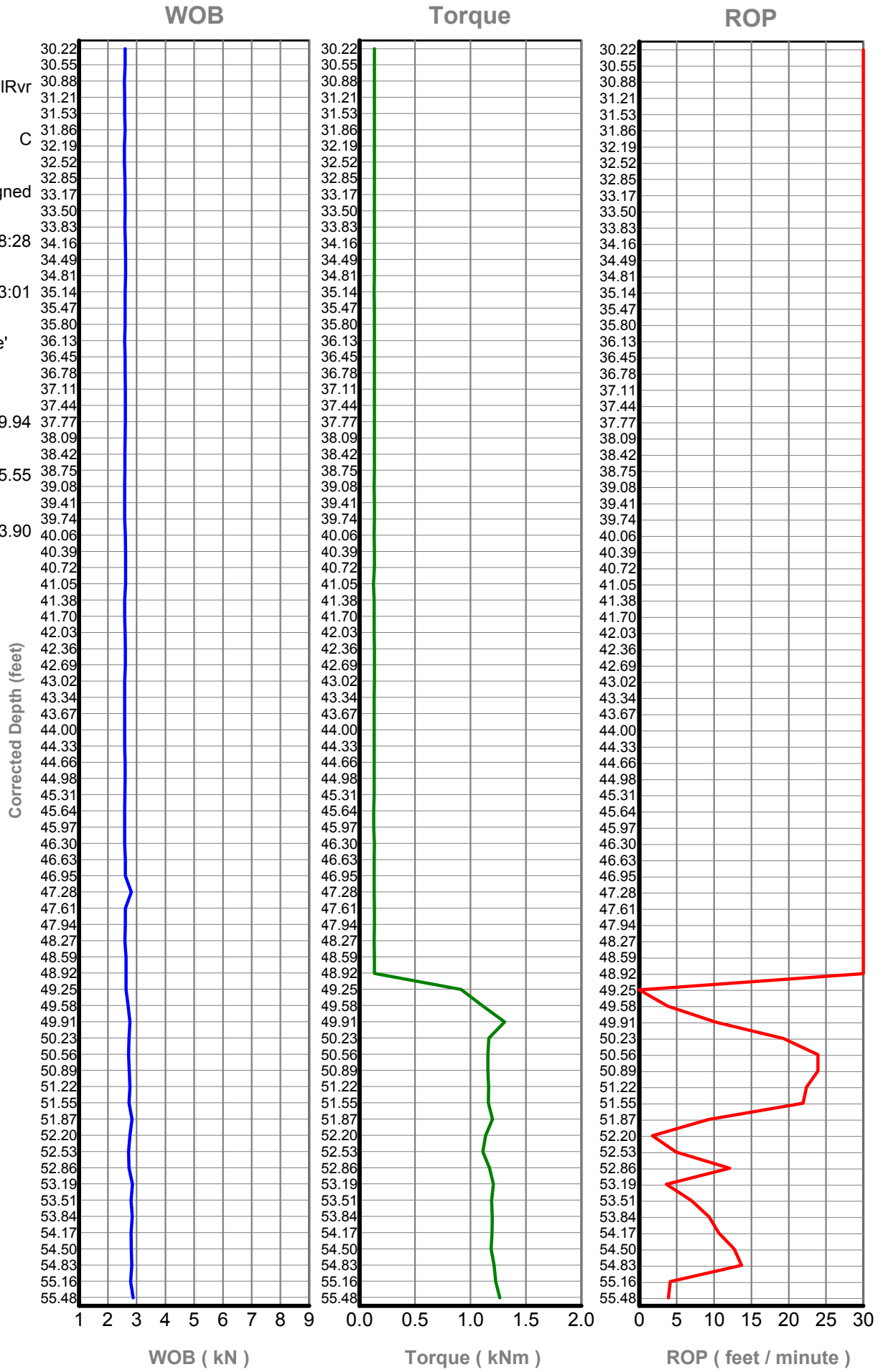
**End Date:**
4/16/2015 14:03:01

**Operator Note:**
'3.9 4.4 c Auto Complete'

**Northing:**
371,309.94

**Easting:**
260,095.55

**Tide (feet):**
3.90



## Hole: A85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:15:56 | 33.79 | 30.09 | 1,020 | 2.61 | 0.36 | 55.8 |
| 4/16/2015 14:15:56 | 34.12 | 30.42 | 1,023 | 2.60 | 0.36 | 56.0 |
| 4/16/2015 14:15:57 | 34.45 | 30.75 | 999 | 2.58 | 0.36 | 54.6 |
| 4/16/2015 14:15:57 | 34.78 | 31.08 | 999 | 2.58 | 0.36 | 54.6 |
| 4/16/2015 14:15:57 | 35.11 | 31.41 | 999 | 2.60 | 0.36 | 54.6 |
| 4/16/2015 14:15:58 | 35.43 | 31.73 | 1,002 | 2.60 | 0.36 | 54.8 |
| 4/16/2015 14:15:58 | 35.76 | 32.06 | 1,002 | 2.60 | 0.36 | 54.8 |
| 4/16/2015 14:15:58 | 36.09 | 32.39 | 1,002 | 2.61 | 0.35 | 54.8 |
| 4/16/2015 14:15:59 | 36.42 | 32.72 | 992 | 2.59 | 0.37 | 54.2 |
| 4/16/2015 14:15:59 | 36.75 | 33.05 | 992 | 2.59 | 0.37 | 54.2 |
| 4/16/2015 14:15:59 | 37.07 | 33.37 | 992 | 2.59 | 0.36 | 54.2 |
| 4/16/2015 14:16:00 | 37.40 | 33.70 | 1,008 | 2.62 | 0.36 | 55.1 |
| 4/16/2015 14:16:00 | 37.73 | 34.03 | 1,008 | 2.62 | 0.36 | 55.1 |
| 4/16/2015 14:16:00 | 38.06 | 34.36 | 999 | 2.61 | 0.36 | 54.7 |
| 4/16/2015 14:16:01 | 38.39 | 34.69 | 999 | 2.61 | 0.36 | 54.7 |
| 4/16/2015 14:16:01 | 38.71 | 35.01 | 999 | 2.61 | 0.36 | 54.7 |
| 4/16/2015 14:16:01 | 39.04 | 35.34 | 1,029 | 2.61 | 0.36 | 56.3 |
| 4/16/2015 14:16:02 | 39.37 | 35.67 | 1,023 | 2.60 | 0.36 | 55.9 |
| 4/16/2015 14:16:03 | 39.70 | 36.00 | 1,023 | 2.60 | 0.36 | 55.9 |
| 4/16/2015 14:16:02 | 40.03 | 36.33 | 999 | 2.61 | 0.35 | 54.7 |
| 4/16/2015 14:16:03 | 40.35 | 36.65 | 999 | 2.61 | 0.36 | 54.7 |
| 4/16/2015 14:16:04 | 40.68 | 36.98 | 999 | 2.61 | 0.36 | 54.7 |
| 4/16/2015 14:16:04 | 41.01 | 37.31 | 989 | 2.59 | 0.36 | 54.1 |
| 4/16/2015 14:16:04 | 41.34 | 37.64 | 1,001 | 2.61 | 0.35 | 54.8 |
| 4/16/2015 14:16:04 | 41.67 | 37.97 | 1,001 | 2.61 | 0.35 | 54.8 |
| 4/16/2015 14:16:05 | 41.99 | 38.29 | 1,001 | 2.60 | 0.36 | 54.8 |
| 4/16/2015 14:16:05 | 42.32 | 38.62 | 1,000 | 2.60 | 0.35 | 54.7 |
| 4/16/2015 14:16:06 | 42.65 | 38.95 | 1,000 | 2.60 | 0.35 | 54.7 |
| 4/16/2015 14:16:06 | 42.98 | 39.28 | 1,003 | 2.60 | 0.36 | 54.8 |
| 4/16/2015 14:16:06 | 43.31 | 39.61 | 1,019 | 2.61 | 0.35 | 55.7 |
| 4/16/2015 14:16:07 | 43.64 | 39.94 | 1,019 | 2.61 | 0.35 | 55.7 |
| 4/16/2015 14:16:07 | 43.96 | 40.26 | 1,019 | 2.61 | 0.34 | 55.7 |
| 4/16/2015 14:16:07 | 44.29 | 40.59 | 1,025 | 2.61 | 0.36 | 56.1 |
| 4/16/2015 14:16:08 | 44.62 | 40.92 | 1,025 | 2.61 | 0.36 | 56.1 |
| 4/16/2015 14:16:08 | 44.95 | 41.25 | 1,019 | 2.61 | 0.36 | 55.7 |
| 4/16/2015 14:16:08 | 45.28 | 41.58 | 1,007 | 2.62 | 0.35 | 55.1 |
| 4/16/2015 14:16:09 | 45.60 | 41.90 | 1,034 | 2.61 | 0.35 | 56.5 |
| 4/16/2015 14:16:09 | 45.93 | 42.23 | 1,034 | 2.61 | 0.35 | 56.5 |
| 4/16/2015 14:16:09 | 46.26 | 42.56 | 1,009 | 2.61 | 0.36 | 55.2 |
| 4/16/2015 14:16:10 | 46.59 | 42.89 | 1,009 | 2.61 | 0.35 | 55.2 |
| 4/16/2015 14:16:10 | 46.92 | 43.22 | 1,009 | 2.61 | 0.35 | 55.2 |
| 4/16/2015 14:16:10 | 47.24 | 43.54 | 1,015 | 2.61 | 0.36 | 55.5 |
| 4/16/2015 14:16:11 | 47.57 | 43.87 | 1,024 | 2.61 | 0.36 | 56.0 |
| 4/16/2015 14:16:11 | 47.90 | 44.20 | 1,024 | 2.61 | 0.36 | 56.0 |
| 4/16/2015 14:16:11 | 48.23 | 44.53 | 1,011 | 2.58 | 0.36 | 55.3 |
| 4/16/2015 14:16:12 | 48.56 | 44.86 | 1,025 | 2.60 | 0.36 | 56.0 |
| 4/16/2015 14:16:12 | 48.88 | 45.18 | 1,025 | 2.60 | 0.36 | 56.0 |
| 4/16/2015 14:16:12 | 49.21 | 45.51 | 1,001 | 2.59 | 0.35 | 54.7 |
| 4/16/2015 14:16:13 | 49.54 | 45.84 | 1,001 | 2.65 | 0.36 | 54.7 |
| 4/16/2015 14:16:13 | 49.87 | 46.17 | 1,001 | 2.65 | 0.36 | 54.7 |
| 4/16/2015 14:16:13 | 50.20 | 46.50 | 1,001 | 2.60 | 0.36 | 54.7 |
| 4/16/2015 14:16:14 | 50.53 | 46.83 | 1,001 | 2.68 | 0.36 | 54.7 |
| 4/16/2015 14:16:15 | 50.85 | 47.15 | 924 | 2.79 | 0.38 | 50.5 |
| 4/16/2015 14:16:30 | 51.18 | 47.48 | 70 | 2.80 | 1.18 | 3.8 |
| 4/16/2015 14:16:30 | 51.51 | 47.81 | 117 | 2.67 | 1.07 | 6.4 |
| 4/16/2015 14:16:31 | 51.84 | 48.14 | 117 | 2.66 | 1.04 | 6.4 |
| 4/16/2015 14:16:31 | 52.17 | 48.47 | 256 | 2.71 | 1.03 | 14.0 |
| 4/16/2015 14:16:32 | 52.49 | 48.79 | 441 | 2.79 | 1.19 | 24.1 |
| 4/16/2015 14:16:33 | 52.82 | 49.12 | 441 | 2.78 | 1.21 | 24.1 |
| 4/16/2015 14:16:34 | 53.15 | 49.45 | 562 | 2.90 | 1.32 | 30.8 |
| 4/16/2015 14:16:36 | 53.48 | 49.78 | 379 | 2.85 | 1.27 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:16:43 | 53.81 | 50.11 | 0 | 2.79 | 1.20 | 0.0 |
| 4/16/2015 | 14:16:46 | 54.13 | 50.43 | 142 | 2.82 | 1.18 | 7.7 |
| 4/16/2015 | 14:16:58 | 54.46 | 50.76 | 0 | 2.76 | 0.99 | 0.0 |
| 4/16/2015 | 14:17:00 | 54.79 | 51.09 | 122 | 2.80 | 1.22 | 6.7 |
| 4/16/2015 | 14:17:01 | 55.12 | 51.42 | 173 | 2.84 | 1.21 | 9.4 |
| 4/16/2015 | 14:17:03 | 55.45 | 51.75 | 234 | 2.81 | 1.16 | 12.8 |
| 4/16/2015 | 14:17:05 | 55.77 | 52.07 | 217 | 2.84 | 1.19 | 11.9 |
| 4/16/2015 | 14:17:09 | 56.10 | 52.40 | 95 | 2.84 | 1.23 | 5.2 |
| 4/16/2015 | 14:17:11 | 56.43 | 52.73 | 134 | 2.86 | 1.28 | 7.4 |
| 4/16/2015 | 14:17:13 | 56.76 | 53.06 | 162 | 2.83 | 1.28 | 8.9 |
| 4/16/2015 | 14:17:36 | 57.09 | 53.39 | 3 | 2.84 | 1.18 | 0.2 |
| 4/16/2015 | 14:17:40 | 57.41 | 53.71 | 108 | 2.86 | 1.35 | 5.9 |
| 4/16/2015 | 14:17:42 | 57.74 | 54.04 | 143 | 2.84 | 1.18 | 7.8 |
| 4/16/2015 | 14:17:46 | 58.07 | 54.37 | 63 | 2.76 | 1.20 | 3.5 |
| 4/16/2015 | 14:17:49 | 58.40 | 54.70 | 67 | 2.82 | 1.27 | 3.7 |
| 4/16/2015 | 14:17:50 | 58.73 | 55.03 | 185 | 2.84 | 1.29 | 10.1 |
| 4/16/2015 | 14:17:55 | 59.03 | 55.33 | 26 | 2.85 | 1.28 | 1.4 |

## A85 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:14:24

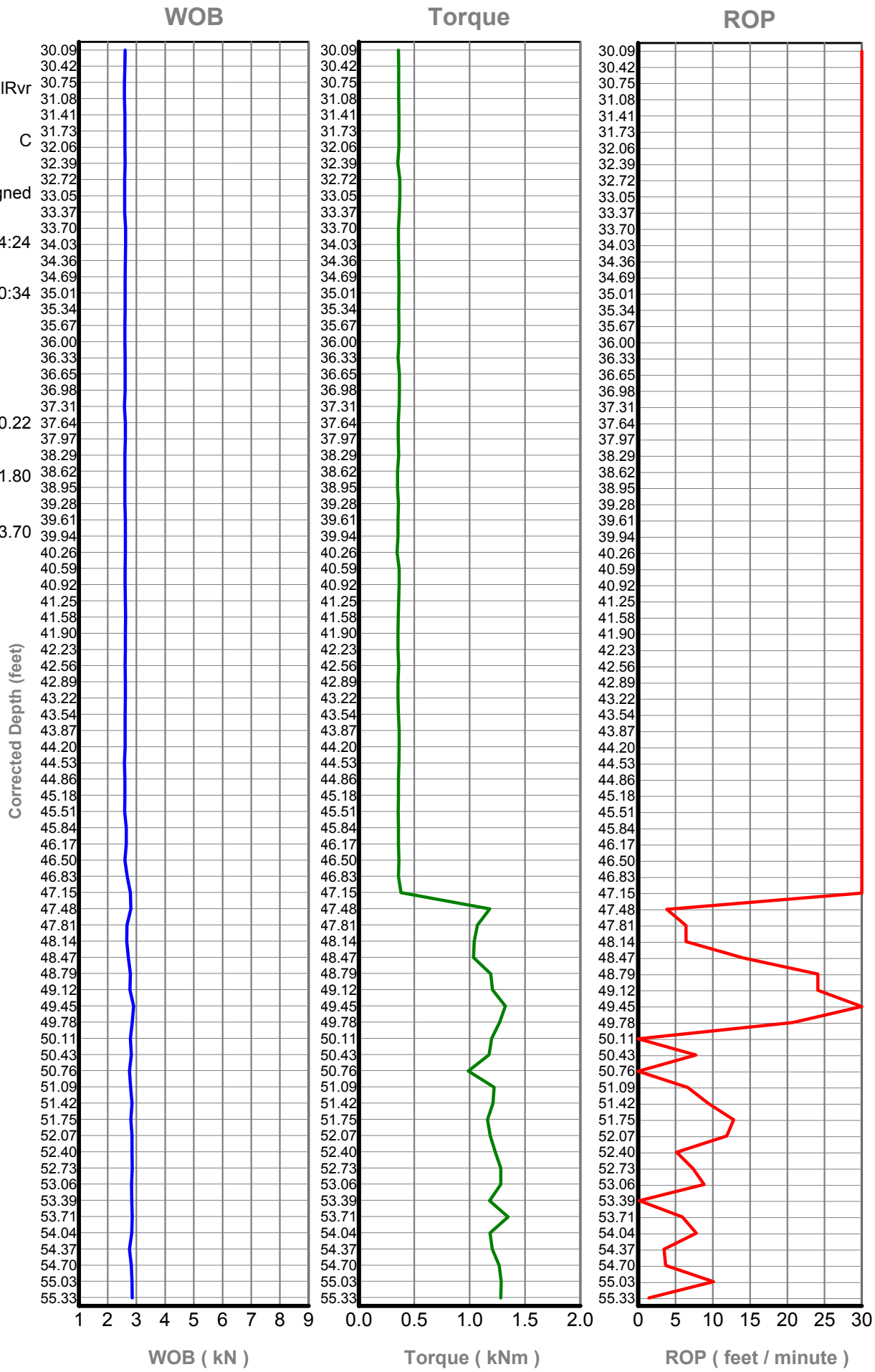
**End Date:**
4/16/2015 14:20:34

**Operator Note:**
'3.7 4.0 c Auto Complete'

**Northing:**
371,390.22

**Easting:**
260,101.80

**Tide (feet):**
3.70



## Hole: A86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:33:26 | 33.79 | 30.29 | 951 | 2.61 | 0.13 | 52.0 |
| 4/16/2015 14:33:26 | 34.12 | 30.62 | 951 | 2.61 | 0.13 | 52.0 |
| 4/16/2015 14:33:27 | 34.45 | 30.95 | 954 | 2.60 | 0.13 | 52.2 |
| 4/16/2015 14:33:27 | 34.78 | 31.28 | 954 | 2.60 | 0.13 | 52.2 |
| 4/16/2015 14:33:27 | 35.11 | 31.61 | 951 | 2.61 | 0.13 | 52.0 |
| 4/16/2015 14:33:28 | 35.43 | 31.93 | 948 | 2.61 | 0.13 | 51.8 |
| 4/16/2015 14:33:28 | 35.76 | 32.26 | 948 | 2.61 | 0.13 | 51.8 |
| 4/16/2015 14:33:28 | 36.09 | 32.59 | 942 | 2.62 | 0.13 | 51.5 |
| 4/16/2015 14:33:29 | 36.42 | 32.92 | 951 | 2.59 | 0.13 | 52.0 |
| 4/16/2015 14:33:29 | 36.75 | 33.25 | 945 | 2.62 | 0.13 | 51.7 |
| 4/16/2015 14:33:30 | 37.07 | 33.57 | 945 | 2.62 | 0.13 | 51.7 |
| 4/16/2015 14:33:30 | 37.40 | 33.90 | 945 | 2.61 | 0.13 | 51.7 |
| 4/16/2015 14:33:30 | 37.73 | 34.23 | 948 | 2.61 | 0.13 | 51.8 |
| 4/16/2015 14:33:31 | 38.06 | 34.56 | 954 | 2.62 | 0.13 | 52.2 |
| 4/16/2015 14:33:31 | 38.39 | 34.89 | 954 | 2.62 | 0.13 | 52.2 |
| 4/16/2015 14:33:31 | 38.71 | 35.21 | 945 | 2.61 | 0.13 | 51.7 |
| 4/16/2015 14:33:32 | 39.04 | 35.54 | 948 | 2.62 | 0.13 | 51.8 |
| 4/16/2015 14:33:32 | 39.37 | 35.87 | 948 | 2.62 | 0.13 | 51.8 |
| 4/16/2015 14:33:32 | 39.70 | 36.20 | 942 | 2.60 | 0.13 | 51.5 |
| 4/16/2015 14:33:33 | 40.03 | 36.53 | 948 | 2.61 | 0.13 | 51.9 |
| 4/16/2015 14:33:33 | 40.35 | 36.85 | 942 | 2.56 | 0.13 | 51.5 |
| 4/16/2015 14:33:34 | 40.68 | 37.18 | 942 | 2.56 | 0.13 | 51.5 |
| 4/16/2015 14:33:34 | 41.01 | 37.51 | 948 | 2.61 | 0.13 | 51.8 |
| 4/16/2015 14:33:34 | 41.34 | 37.84 | 945 | 2.60 | 0.13 | 51.7 |
| 4/16/2015 14:33:35 | 41.67 | 38.17 | 954 | 2.60 | 0.13 | 52.2 |
| 4/16/2015 14:33:35 | 41.99 | 38.49 | 954 | 2.60 | 0.13 | 52.2 |
| 4/16/2015 14:33:35 | 42.32 | 38.82 | 945 | 2.61 | 0.13 | 51.7 |
| 4/16/2015 14:33:36 | 42.65 | 39.15 | 948 | 2.62 | 0.13 | 51.9 |
| 4/16/2015 14:33:37 | 42.98 | 39.48 | 948 | 2.62 | 0.13 | 51.9 |
| 4/16/2015 14:33:37 | 43.31 | 39.81 | 942 | 2.60 | 0.13 | 51.5 |
| 4/16/2015 14:33:37 | 43.64 | 40.14 | 940 | 2.61 | 0.13 | 51.4 |
| 4/16/2015 14:33:38 | 43.96 | 40.46 | 943 | 2.61 | 0.13 | 51.6 |
| 4/16/2015 14:33:38 | 44.29 | 40.79 | 943 | 2.61 | 0.13 | 51.6 |
| 4/16/2015 14:33:38 | 44.62 | 41.12 | 940 | 2.59 | 0.13 | 51.4 |
| 4/16/2015 14:33:39 | 44.95 | 41.45 | 934 | 2.61 | 0.13 | 51.1 |
| 4/16/2015 14:33:39 | 45.28 | 41.78 | 940 | 2.62 | 0.13 | 51.4 |
| 4/16/2015 14:33:40 | 45.60 | 42.10 | 940 | 2.62 | 0.13 | 51.4 |
| 4/16/2015 14:33:40 | 45.93 | 42.43 | 942 | 2.62 | 0.13 | 51.5 |
| 4/16/2015 14:33:40 | 46.26 | 42.76 | 937 | 2.62 | 0.13 | 51.2 |
| 4/16/2015 14:33:41 | 46.59 | 43.09 | 937 | 2.62 | 0.13 | 51.2 |
| 4/16/2015 14:33:41 | 46.92 | 43.42 | 939 | 2.63 | 0.13 | 51.4 |
| 4/16/2015 14:33:41 | 47.24 | 43.74 | 939 | 2.62 | 0.13 | 51.4 |
| 4/16/2015 14:33:42 | 47.57 | 44.07 | 939 | 2.61 | 0.13 | 51.4 |
| 4/16/2015 14:33:42 | 47.90 | 44.40 | 939 | 2.61 | 0.13 | 51.4 |
| 4/16/2015 14:33:42 | 48.23 | 44.73 | 937 | 2.62 | 0.13 | 51.2 |
| 4/16/2015 14:33:43 | 48.56 | 45.06 | 931 | 2.63 | 0.13 | 50.9 |
| 4/16/2015 14:33:43 | 48.88 | 45.38 | 940 | 2.61 | 0.13 | 51.4 |
| 4/16/2015 14:33:44 | 49.21 | 45.71 | 940 | 2.61 | 0.13 | 51.4 |
| 4/16/2015 14:33:44 | 49.54 | 46.04 | 937 | 2.68 | 0.13 | 51.2 |
| 4/16/2015 14:34:47 | 49.87 | 46.37 | 61 | 2.76 | 0.67 | 3.3 |
| 4/16/2015 14:34:50 | 50.20 | 46.70 | 113 | 2.88 | 1.28 | 6.2 |
| 4/16/2015 14:34:53 | 50.53 | 47.03 | 136 | 2.85 | 1.41 | 7.4 |
| 4/16/2015 14:34:56 | 50.85 | 47.35 | 121 | 2.85 | 1.30 | 6.6 |
| 4/16/2015 14:34:59 | 51.18 | 47.68 | 116 | 2.88 | 1.32 | 6.3 |
| 4/16/2015 14:35:06 | 51.51 | 48.01 | 0 | 2.84 | 1.37 | 0.0 |
| 4/16/2015 14:35:10 | 51.84 | 48.34 | 101 | 2.87 | 1.35 | 5.5 |
| 4/16/2015 14:35:22 | 52.17 | 48.67 | 55 | 2.87 | 1.36 | 3.0 |
| 4/16/2015 14:35:25 | 52.49 | 48.99 | 95 | 2.87 | 1.42 | 5.2 |
| 4/16/2015 14:35:28 | 52.82 | 49.32 | 121 | 2.90 | 1.45 | 6.6 |
| 4/16/2015 14:35:39 | 53.15 | 49.65 | 52 | 2.88 | 1.33 | 2.9 |
| 4/16/2015 14:35:45 | 53.48 | 49.98 | 65 | 2.86 | 1.30 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:35:47 | 53.81 | 50.31 | 116 | 2.88 | 1.30 | 6.3 |
| 4/16/2015 | 14:35:49 | 54.13 | 50.63 | 167 | 2.84 | 1.24 | 9.2 |
| 4/16/2015 | 14:35:52 | 54.46 | 50.96 | 191 | 2.90 | 1.30 | 10.4 |
| 4/16/2015 | 14:36:17 | 54.79 | 51.29 | 5 | 2.81 | 1.12 | 0.2 |
| 4/16/2015 | 14:36:19 | 55.12 | 51.62 | 126 | 2.86 | 1.22 | 6.9 |
| 4/16/2015 | 14:36:23 | 55.45 | 51.95 | 114 | 2.86 | 1.30 | 6.3 |
| 4/16/2015 | 14:36:26 | 55.77 | 52.27 | 114 | 2.87 | 1.29 | 6.3 |
| 4/16/2015 | 14:36:29 | 56.10 | 52.60 | 114 | 2.87 | 1.30 | 6.2 |
| 4/16/2015 | 14:36:32 | 56.43 | 52.93 | 115 | 2.85 | 1.23 | 6.3 |
| 4/16/2015 | 14:36:35 | 56.76 | 53.26 | 111 | 2.90 | 1.33 | 6.1 |
| 4/16/2015 | 14:36:43 | 57.09 | 53.59 | 12 | 2.86 | 1.31 | 0.7 |
| 4/16/2015 | 14:36:47 | 57.41 | 53.91 | 86 | 2.85 | 1.31 | 4.7 |
| 4/16/2015 | 14:36:51 | 57.74 | 54.24 | 91 | 2.84 | 1.35 | 5.0 |
| 4/16/2015 | 14:36:55 | 58.07 | 54.57 | 84 | 2.90 | 1.36 | 4.6 |
| 4/16/2015 | 14:37:00 | 58.40 | 54.90 | 69 | 2.89 | 1.49 | 3.8 |
| 4/16/2015 | 14:37:09 | 58.69 | 55.19 | 38 | 2.88 | 1.50 | 2.1 |

## A86 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:32:02

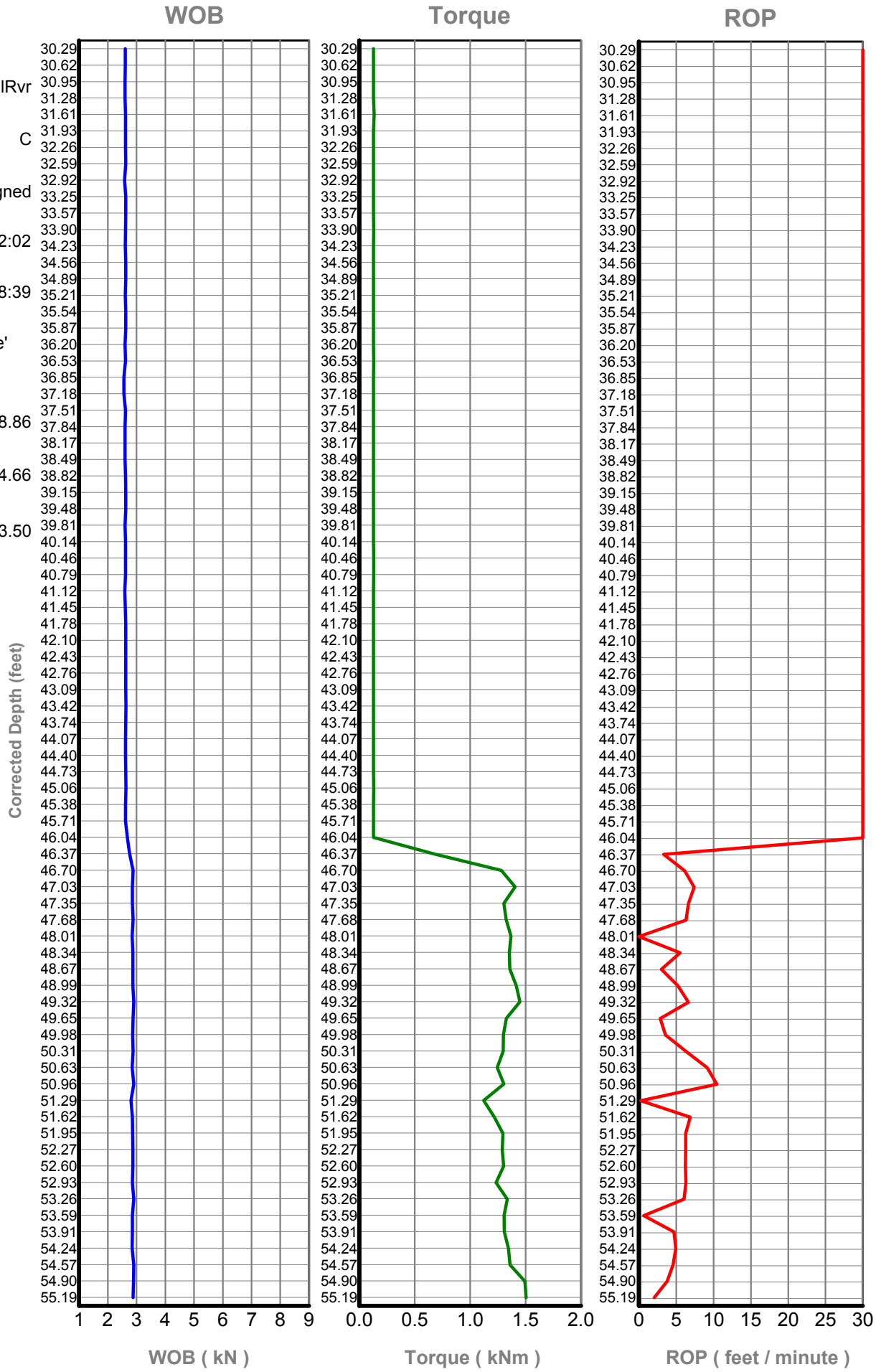
**End Date:**
4/16/2015 14:38:39

**Operator Note:**
'3.5 3.7 c Auto Complete'

**Northing:**
371,458.86

**Easting:**
260,104.66

**Tide (feet):**
3.50



## Hole: A87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 14:51:18 | 33.14 | 30.04 | 1,004 | 2.60 | 0.13 | 54.9 |
| 4/16/2015 14:51:18 | 33.46 | 30.36 | 986 | 2.61 | 0.14 | 53.9 |
| 4/16/2015 14:51:19 | 33.79 | 30.69 | 986 | 2.60 | 0.14 | 53.9 |
| 4/16/2015 14:51:19 | 34.12 | 31.02 | 986 | 2.60 | 0.14 | 53.9 |
| 4/16/2015 14:51:19 | 34.45 | 31.35 | 985 | 2.63 | 0.14 | 53.9 |
| 4/16/2015 14:51:20 | 34.78 | 31.68 | 985 | 2.61 | 0.14 | 53.9 |
| 4/16/2015 14:51:20 | 35.11 | 32.01 | 985 | 2.61 | 0.14 | 53.9 |
| 4/16/2015 14:51:20 | 35.43 | 32.33 | 993 | 2.62 | 0.14 | 54.3 |
| 4/16/2015 14:51:21 | 35.76 | 32.66 | 1,013 | 2.59 | 0.13 | 55.4 |
| 4/16/2015 14:51:21 | 36.09 | 32.99 | 1,013 | 2.59 | 0.13 | 55.4 |
| 4/16/2015 14:51:21 | 36.42 | 33.32 | 990 | 2.59 | 0.11 | 54.2 |
| 4/16/2015 14:51:22 | 36.75 | 33.65 | 1,026 | 2.61 | 0.14 | 56.1 |
| 4/16/2015 14:51:22 | 37.07 | 33.97 | 1,026 | 2.61 | 0.14 | 56.1 |
| 4/16/2015 14:51:22 | 37.40 | 34.30 | 999 | 2.59 | 0.13 | 54.6 |
| 4/16/2015 14:51:23 | 37.73 | 34.63 | 985 | 2.60 | 0.14 | 53.9 |
| 4/16/2015 14:51:23 | 38.06 | 34.96 | 985 | 2.60 | 0.14 | 53.9 |
| 4/16/2015 14:51:23 | 38.39 | 35.29 | 985 | 2.61 | 0.14 | 53.9 |
| 4/16/2015 14:51:24 | 38.71 | 35.61 | 988 | 2.61 | 0.13 | 54.0 |
| 4/16/2015 14:51:24 | 39.04 | 35.94 | 988 | 2.61 | 0.13 | 54.0 |
| 4/16/2015 14:51:24 | 39.37 | 36.27 | 988 | 2.60 | 0.14 | 54.0 |
| 4/16/2015 14:51:25 | 39.70 | 36.60 | 999 | 2.59 | 0.13 | 54.6 |
| 4/16/2015 14:51:25 | 40.03 | 36.93 | 993 | 2.59 | 0.13 | 54.3 |
| 4/16/2015 14:51:26 | 40.35 | 37.25 | 993 | 2.59 | 0.13 | 54.3 |
| 4/16/2015 14:51:26 | 40.68 | 37.58 | 1,018 | 2.61 | 0.14 | 55.7 |
| 4/16/2015 14:51:26 | 41.01 | 37.91 | 1,027 | 2.61 | 0.14 | 56.2 |
| 4/16/2015 14:51:27 | 41.34 | 38.24 | 1,027 | 2.61 | 0.14 | 56.2 |
| 4/16/2015 14:51:27 | 41.67 | 38.57 | 1,027 | 2.61 | 0.14 | 56.2 |
| 4/16/2015 14:51:28 | 41.99 | 38.89 | 1,026 | 2.60 | 0.14 | 56.1 |
| 4/16/2015 14:51:28 | 42.32 | 39.22 | 1,026 | 2.60 | 0.14 | 56.1 |
| 4/16/2015 14:51:28 | 42.65 | 39.55 | 1,000 | 2.61 | 0.14 | 54.7 |
| 4/16/2015 14:51:29 | 42.98 | 39.88 | 1,000 | 2.61 | 0.14 | 54.7 |
| 4/16/2015 14:51:29 | 43.31 | 40.21 | 1,000 | 2.61 | 0.14 | 54.7 |
| 4/16/2015 14:51:29 | 43.64 | 40.54 | 1,012 | 2.59 | 0.13 | 55.3 |
| 4/16/2015 14:51:30 | 43.96 | 40.86 | 1,000 | 2.62 | 0.14 | 54.7 |
| 4/16/2015 14:51:30 | 44.29 | 41.19 | 1,000 | 2.62 | 0.14 | 54.7 |
| 4/16/2015 14:51:30 | 44.62 | 41.52 | 965 | 2.73 | 0.14 | 52.7 |
| 4/16/2015 14:51:52 | 44.95 | 41.85 | 106 | 2.76 | 1.36 | 5.8 |
| 4/16/2015 14:51:54 | 45.28 | 42.18 | 135 | 2.90 | 1.27 | 7.4 |
| 4/16/2015 14:51:57 | 45.60 | 42.50 | 115 | 2.88 | 1.30 | 6.3 |
| 4/16/2015 14:51:59 | 45.93 | 42.83 | 154 | 2.84 | 1.37 | 8.4 |
| 4/16/2015 14:52:02 | 46.26 | 43.16 | 171 | 2.87 | 1.34 | 9.4 |
| 4/16/2015 14:52:03 | 46.59 | 43.49 | 191 | 2.86 | 1.31 | 10.4 |
| 4/16/2015 14:52:07 | 46.92 | 43.82 | 106 | 2.88 | 1.22 | 5.8 |
| 4/16/2015 14:52:13 | 47.24 | 44.14 | 54 | 2.90 | 1.34 | 3.0 |
| 4/16/2015 14:52:15 | 47.57 | 44.47 | 107 | 2.86 | 1.39 | 5.8 |
| 4/16/2015 14:52:17 | 47.90 | 44.80 | 148 | 2.90 | 1.36 | 8.1 |
| 4/16/2015 14:52:21 | 48.23 | 45.13 | 105 | 2.88 | 1.35 | 5.7 |
| 4/16/2015 14:52:24 | 48.56 | 45.46 | 123 | 2.88 | 1.38 | 6.7 |
| 4/16/2015 14:52:26 | 48.88 | 45.78 | 133 | 2.87 | 1.38 | 7.3 |
| 4/16/2015 14:52:27 | 49.21 | 46.11 | 178 | 2.81 | 1.24 | 9.7 |
| 4/16/2015 14:52:28 | 49.54 | 46.44 | 215 | 2.86 | 1.28 | 11.7 |
| 4/16/2015 14:52:49 | 49.87 | 46.77 | 32 | 2.88 | 1.22 | 1.7 |
| 4/16/2015 14:52:53 | 50.20 | 47.10 | 81 | 2.88 | 1.22 | 4.4 |
| 4/16/2015 14:52:56 | 50.53 | 47.43 | 117 | 2.88 | 1.24 | 6.4 |
| 4/16/2015 14:52:57 | 50.85 | 47.75 | 177 | 2.82 | 1.24 | 9.7 |
| 4/16/2015 14:52:58 | 51.18 | 48.08 | 241 | 2.82 | 1.26 | 13.2 |
| 4/16/2015 14:53:00 | 51.51 | 48.41 | 297 | 2.85 | 1.30 | 16.3 |
| 4/16/2015 14:53:03 | 51.84 | 48.74 | 141 | 2.88 | 1.42 | 7.7 |
| 4/16/2015 14:54:42 | 52.17 | 49.07 | 55 | 2.90 | 1.40 | 3.0 |
| 4/16/2015 14:54:46 | 52.49 | 49.39 | 116 | 2.86 | 1.40 | 6.3 |
| 4/16/2015 14:55:44 | 52.82 | 49.72 | 49 | 2.85 | 1.37 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 14:55:46 | 53.15 | 50.05 | 136 | 2.93 | 1.43 | 7.4 |
| 4/16/2015 | 14:55:52 | 53.42 | 50.32 | 26 | 2.88 | 1.51 | 1.4 |

## A87 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 14:49:43

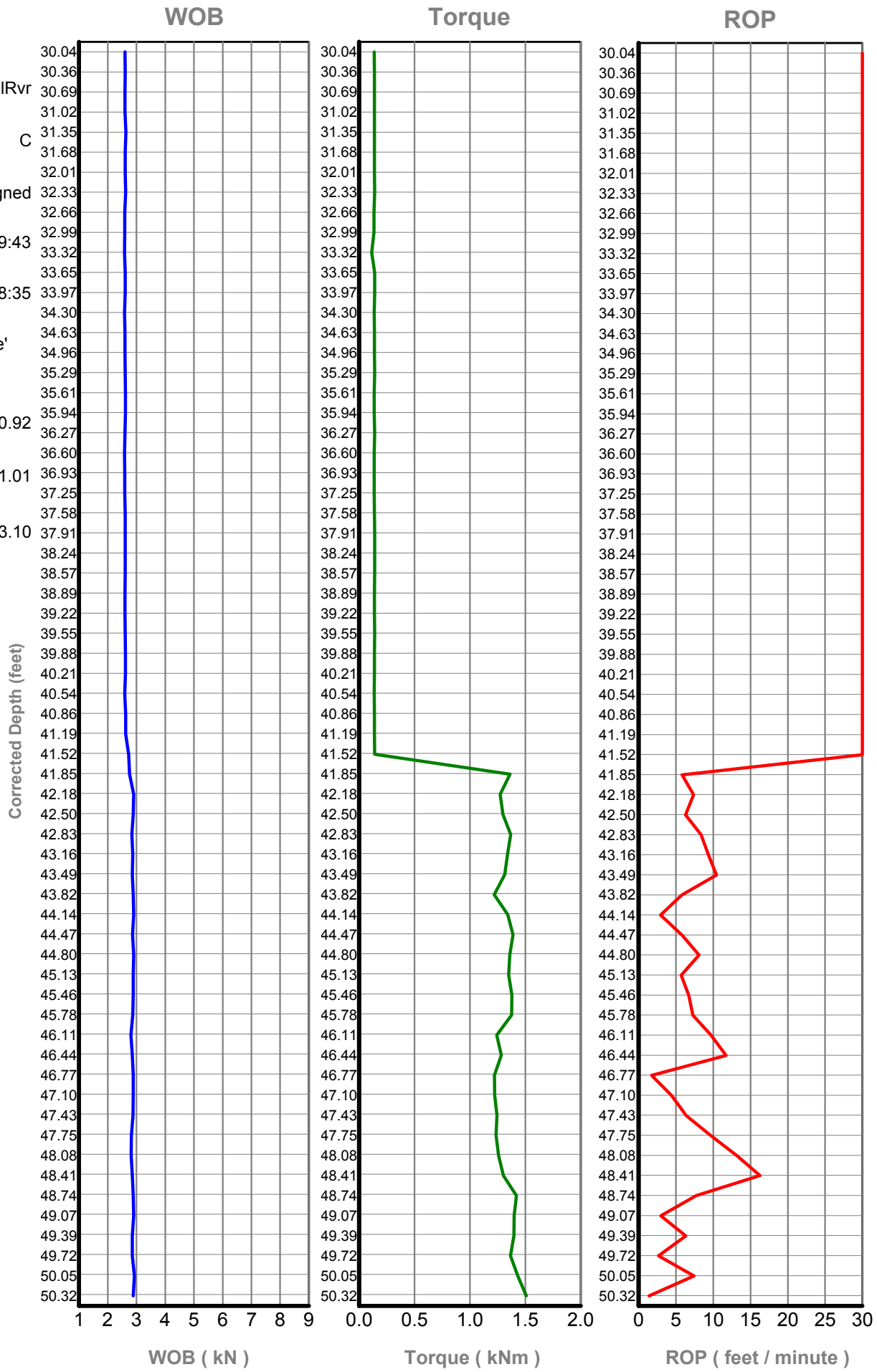
**End Date:**
4/16/2015 14:58:35

**Operator Note:**
'3.1 3.5 c Auto Complete'

**Northing:**
371,530.92

**Easting:**
260,111.01

**Tide (feet):**
3.10



## Hole: A88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 15:19:49 | 32.81 | 30.01 | 911 | 2.62 | 0.13 | 49.8 |
| 4/16/2015 15:19:49 | 33.14 | 30.34 | 906 | 2.61 | 0.14 | 49.5 |
| 4/16/2015 15:19:50 | 33.46 | 30.66 | 911 | 2.62 | 0.13 | 49.8 |
| 4/16/2015 15:19:50 | 33.79 | 30.99 | 911 | 2.62 | 0.13 | 49.8 |
| 4/16/2015 15:19:50 | 34.12 | 31.32 | 916 | 2.62 | 0.11 | 50.1 |
| 4/16/2015 15:19:51 | 34.45 | 31.65 | 913 | 2.61 | 0.13 | 49.9 |
| 4/16/2015 15:19:51 | 34.78 | 31.98 | 908 | 2.61 | 0.13 | 49.6 |
| 4/16/2015 15:19:52 | 35.11 | 32.31 | 908 | 2.61 | 0.13 | 49.6 |
| 4/16/2015 15:19:52 | 35.43 | 32.63 | 913 | 2.61 | 0.13 | 49.9 |
| 4/16/2015 15:19:52 | 35.76 | 32.96 | 908 | 2.61 | 0.13 | 49.6 |
| 4/16/2015 15:19:53 | 36.09 | 33.29 | 905 | 2.62 | 0.14 | 49.5 |
| 4/16/2015 15:19:53 | 36.42 | 33.62 | 905 | 2.62 | 0.14 | 49.5 |
| 4/16/2015 15:19:53 | 36.75 | 33.95 | 908 | 2.61 | 0.13 | 49.6 |
| 4/16/2015 15:19:54 | 37.07 | 34.27 | 885 | 2.61 | 0.13 | 48.4 |
| 4/16/2015 15:19:54 | 37.40 | 34.60 | 885 | 2.61 | 0.13 | 48.4 |
| 4/16/2015 15:19:55 | 37.73 | 34.93 | 885 | 2.61 | 0.13 | 48.4 |
| 4/16/2015 15:19:55 | 38.06 | 35.26 | 895 | 2.62 | 0.13 | 48.9 |
| 4/16/2015 15:19:55 | 38.39 | 35.59 | 892 | 2.61 | 0.13 | 48.8 |
| 4/16/2015 15:19:56 | 38.71 | 35.91 | 900 | 2.61 | 0.13 | 49.2 |
| 4/16/2015 15:19:57 | 39.04 | 36.24 | 900 | 2.61 | 0.13 | 49.2 |
| 4/16/2015 15:19:57 | 39.37 | 36.57 | 892 | 2.61 | 0.13 | 48.8 |
| 4/16/2015 15:19:57 | 39.70 | 36.90 | 918 | 2.60 | 0.13 | 50.2 |
| 4/16/2015 15:19:58 | 40.03 | 37.23 | 902 | 2.61 | 0.13 | 49.3 |
| 4/16/2015 15:19:58 | 40.35 | 37.55 | 905 | 2.61 | 0.13 | 49.5 |
| 4/16/2015 15:19:59 | 40.68 | 37.88 | 905 | 2.61 | 0.13 | 49.5 |
| 4/16/2015 15:19:59 | 41.01 | 38.21 | 902 | 2.61 | 0.14 | 49.3 |
| 4/16/2015 15:19:59 | 41.34 | 38.54 | 905 | 2.64 | 0.14 | 49.5 |
| 4/16/2015 15:20:00 | 41.67 | 38.87 | 888 | 2.83 | 0.14 | 48.6 |
| 4/16/2015 15:20:27 | 41.99 | 39.19 | 104 | 2.82 | 1.29 | 5.7 |
| 4/16/2015 15:20:31 | 42.32 | 39.52 | 94 | 2.82 | 1.29 | 5.2 |
| 4/16/2015 15:20:33 | 42.65 | 39.85 | 134 | 2.84 | 1.50 | 7.3 |
| 4/16/2015 15:20:38 | 42.98 | 40.18 | 8 | 2.69 | 1.45 | 0.4 |
| 4/16/2015 15:20:39 | 43.31 | 40.51 | 66 | 2.78 | 1.32 | 3.6 |
| 4/16/2015 15:20:52 | 43.64 | 40.84 | 4 | 2.86 | 1.51 | 0.2 |
| 4/16/2015 15:20:53 | 43.96 | 41.16 | 113 | 2.74 | 1.20 | 6.2 |
| 4/16/2015 15:20:54 | 44.29 | 41.49 | 207 | 2.82 | 1.27 | 11.3 |
| 4/16/2015 15:20:55 | 44.62 | 41.82 | 354 | 2.80 | 1.29 | 19.3 |
| 4/16/2015 15:20:56 | 44.95 | 42.15 | 390 | 2.84 | 1.35 | 21.3 |
| 4/16/2015 15:20:57 | 45.28 | 42.48 | 356 | 2.80 | 1.20 | 19.4 |
| 4/16/2015 15:20:58 | 45.60 | 42.80 | 361 | 2.80 | 1.17 | 19.8 |
| 4/16/2015 15:20:59 | 45.93 | 43.13 | 380 | 2.80 | 1.32 | 20.8 |
| 4/16/2015 15:21:00 | 46.26 | 43.46 | 398 | 2.82 | 1.18 | 21.8 |
| 4/16/2015 15:21:07 | 46.59 | 43.79 | 81 | 2.85 | 1.45 | 4.4 |
| 4/16/2015 15:21:10 | 46.92 | 44.12 | 131 | 2.82 | 1.24 | 7.2 |
| 4/16/2015 15:21:11 | 47.24 | 44.44 | 215 | 2.84 | 1.44 | 11.8 |
| 4/16/2015 15:21:12 | 47.57 | 44.77 | 302 | 2.80 | 1.33 | 16.5 |
| 4/16/2015 15:21:13 | 47.90 | 45.10 | 342 | 2.78 | 1.18 | 18.7 |
| 4/16/2015 15:21:13 | 48.23 | 45.43 | 369 | 2.78 | 1.12 | 20.2 |
| 4/16/2015 15:21:14 | 48.56 | 45.76 | 451 | 2.80 | 1.14 | 24.6 |
| 4/16/2015 15:21:15 | 48.88 | 46.08 | 457 | 2.80 | 1.17 | 25.0 |
| 4/16/2015 15:21:16 | 49.21 | 46.41 | 421 | 2.83 | 1.18 | 23.0 |
| 4/16/2015 15:21:17 | 49.54 | 46.74 | 391 | 2.60 | 1.18 | 21.4 |
| 4/16/2015 15:21:18 | 49.87 | 47.07 | 345 | 2.85 | 1.19 | 18.9 |
| 4/16/2015 15:21:20 | 50.20 | 47.40 | 331 | 2.84 | 1.20 | 18.1 |
| 4/16/2015 15:21:21 | 50.53 | 47.73 | 287 | 2.82 | 1.18 | 15.7 |
| 4/16/2015 15:21:23 | 50.85 | 48.05 | 162 | 2.81 | 1.23 | 8.9 |
| 4/16/2015 15:21:26 | 51.18 | 48.38 | 149 | 2.85 | 1.23 | 8.2 |
| 4/16/2015 15:21:28 | 51.51 | 48.71 | 145 | 2.87 | 1.30 | 8.0 |
| 4/16/2015 15:21:32 | 51.84 | 49.04 | 104 | 2.86 | 1.26 | 5.7 |
| 4/16/2015 15:21:33 | 52.17 | 49.37 | 193 | 2.87 | 1.32 | 10.6 |
| 4/16/2015 15:21:35 | 52.49 | 49.69 | 234 | 2.88 | 1.36 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 15:21:37 | 52.82 | 50.02 | 139 | 2.89 | 1.49 | 7.6 |
| 4/16/2015 | 15:21:41 | 53.15 | 50.35 | 89 | 2.92 | 1.42 | 4.9 |
| 4/16/2015 | 15:21:47 | 53.48 | 50.68 | 35 | 2.88 | 1.48 | 1.9 |
| 4/16/2015 | 15:21:55 | 53.81 | 51.01 | 73 | 2.90 | 1.33 | 4.0 |
| 4/16/2015 | 15:21:58 | 54.13 | 51.33 | 113 | 2.86 | 1.39 | 6.2 |
| 4/16/2015 | 15:22:00 | 54.46 | 51.66 | 150 | 2.91 | 1.47 | 8.2 |
| 4/16/2015 | 15:22:04 | 54.79 | 51.99 | 101 | 2.90 | 1.31 | 5.5 |
| 4/16/2015 | 15:22:08 | 55.12 | 52.32 | 78 | 2.90 | 1.51 | 4.3 |
| 4/16/2015 | 15:23:05 | 55.45 | 52.65 | 0 | 2.91 | 1.52 | 0.0 |

## A88 - Summary

**Pattern Number:**
AreaA_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 15:11:38

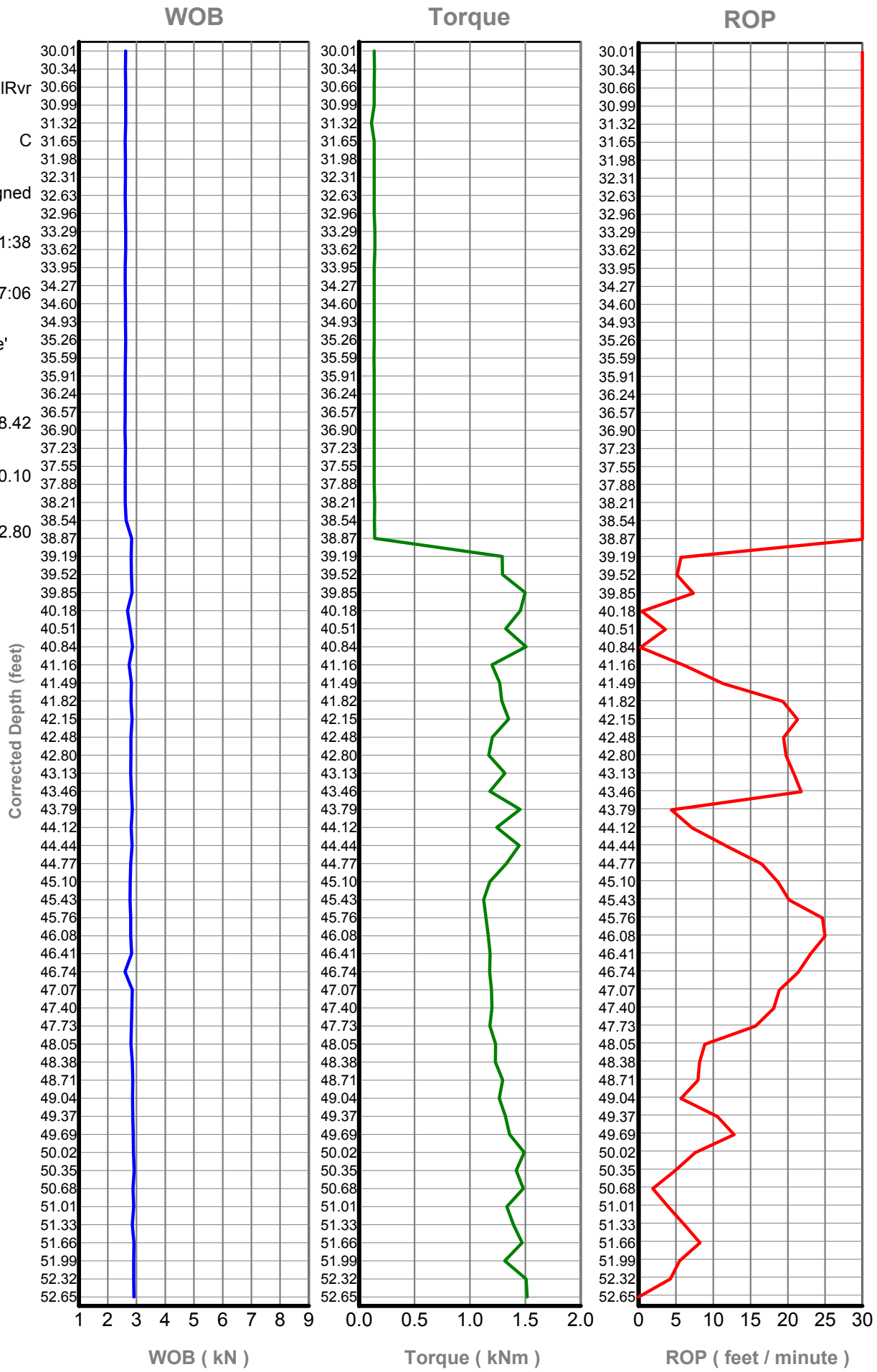
**End Date:**
4/16/2015 15:27:06

**Operator Note:**
'2.8 3.2 c Auto Complete'

**Northing:**
371,608.42

**Easting:**
260,110.10

**Tide (feet):**
2.80



## Hole: A9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 6:12:59 | 30.84 | 30.04 | 1,174 | 0.57 | 0.36 | 64.2 |
| 4/17/2015 6:12:59 | 31.17 | 30.37 | 1,174 | 0.58 | 0.36 | 64.2 |
| 4/17/2015 6:13:00 | 31.50 | 30.70 | 1,179 | 0.31 | 0.36 | 64.5 |
| 4/17/2015 6:13:00 | 31.82 | 31.02 | 1,179 | 0.31 | 0.36 | 64.5 |
| 4/17/2015 6:13:00 | 32.15 | 31.35 | 1,164 | 0.57 | 0.36 | 63.7 |
| 4/17/2015 6:13:01 | 32.48 | 31.68 | 1,164 | 0.57 | 0.36 | 63.7 |
| 4/17/2015 6:13:01 | 32.81 | 32.01 | 1,168 | 0.57 | 0.35 | 63.9 |
| 4/17/2015 6:13:02 | 33.14 | 32.34 | 1,148 | 0.57 | 0.37 | 62.8 |
| 4/17/2015 6:13:02 | 33.46 | 32.66 | 1,148 | 0.57 | 0.37 | 62.8 |
| 4/17/2015 6:13:02 | 33.79 | 32.99 | 1,148 | 0.57 | 0.36 | 62.8 |
| 4/17/2015 6:13:03 | 34.12 | 33.32 | 1,148 | 0.57 | 0.36 | 62.8 |
| 4/17/2015 6:13:03 | 34.45 | 33.65 | 1,160 | 0.57 | 0.35 | 63.4 |
| 4/17/2015 6:13:03 | 34.78 | 33.98 | 1,160 | 0.57 | 0.35 | 63.4 |
| 4/17/2015 6:13:03 | 35.11 | 34.31 | 1,164 | 0.57 | 0.36 | 63.7 |
| 4/17/2015 6:13:04 | 35.43 | 34.63 | 1,167 | 0.57 | 0.36 | 63.8 |
| 4/17/2015 6:13:04 | 35.76 | 34.96 | 1,167 | 0.57 | 0.36 | 63.8 |
| 4/17/2015 6:13:04 | 36.09 | 35.29 | 1,176 | 0.57 | 0.36 | 64.3 |
| 4/17/2015 6:13:05 | 36.42 | 35.62 | 1,176 | 0.57 | 0.36 | 64.3 |
| 4/17/2015 6:13:05 | 36.75 | 35.95 | 1,192 | 0.57 | 0.36 | 65.2 |
| 4/17/2015 6:13:05 | 37.07 | 36.27 | 1,179 | 0.56 | 0.36 | 64.5 |
| 4/17/2015 6:13:06 | 37.40 | 36.60 | 1,179 | 0.56 | 0.36 | 64.5 |
| 4/17/2015 6:13:06 | 37.73 | 36.93 | 1,176 | 0.57 | 0.36 | 64.3 |
| 4/17/2015 6:13:06 | 38.06 | 37.26 | 1,176 | 0.57 | 0.36 | 64.3 |
| 4/17/2015 6:13:06 | 38.39 | 37.59 | 1,181 | 0.57 | 0.35 | 64.6 |
| 4/17/2015 6:13:07 | 38.71 | 37.91 | 1,181 | 0.57 | 0.35 | 64.6 |
| 4/17/2015 6:13:07 | 39.04 | 38.24 | 1,175 | 0.57 | 0.36 | 64.3 |
| 4/17/2015 6:13:07 | 39.37 | 38.57 | 1,182 | 0.56 | 0.36 | 64.6 |
| 4/17/2015 6:13:08 | 39.70 | 38.90 | 1,182 | 0.56 | 0.36 | 64.6 |
| 4/17/2015 6:13:08 | 40.03 | 39.23 | 1,182 | 0.57 | 0.36 | 64.6 |
| 4/17/2015 6:13:08 | 40.35 | 39.55 | 1,182 | 0.57 | 0.36 | 64.6 |
| 4/17/2015 6:13:08 | 40.68 | 39.88 | 1,192 | 0.56 | 0.35 | 65.2 |
| 4/17/2015 6:13:09 | 41.01 | 40.21 | 1,180 | 0.56 | 0.38 | 64.5 |
| 4/17/2015 6:13:09 | 41.34 | 40.54 | 1,180 | 0.56 | 0.38 | 64.5 |
| 4/17/2015 6:13:09 | 41.67 | 40.87 | 1,187 | 0.57 | 0.36 | 64.9 |
| 4/17/2015 6:13:10 | 41.99 | 41.19 | 1,187 | 0.57 | 0.36 | 64.9 |
| 4/17/2015 6:13:10 | 42.32 | 41.52 | 1,171 | 0.57 | 0.36 | 64.0 |
| 4/17/2015 6:13:11 | 42.65 | 41.85 | 1,171 | 0.57 | 0.36 | 64.0 |
| 4/17/2015 6:13:10 | 42.98 | 42.18 | 1,152 | 0.56 | 0.39 | 63.0 |
| 4/17/2015 6:13:31 | 43.31 | 42.51 | 0 | 4.42 | 0.49 | 0.0 |
| 4/17/2015 6:13:32 | 43.64 | 42.84 | 53 | 3.93 | 0.45 | 2.9 |
| 4/17/2015 6:13:36 | 43.96 | 43.16 | 41 | 4.47 | 0.49 | 2.2 |
| 4/17/2015 6:13:46 | 44.29 | 43.49 | 49 | 4.49 | 0.47 | 2.7 |
| 4/17/2015 6:13:53 | 44.62 | 43.82 | 75 | 4.61 | 0.47 | 4.1 |
| 4/17/2015 6:14:02 | 44.95 | 44.15 | 47 | 4.28 | 0.49 | 2.6 |
| 4/17/2015 6:14:08 | 45.28 | 44.48 | 64 | 4.87 | 0.45 | 3.5 |
| 4/17/2015 6:14:13 | 45.60 | 44.80 | 61 | 4.85 | 0.45 | 3.3 |
| 4/17/2015 6:14:19 | 45.93 | 45.13 | 66 | 4.99 | 0.48 | 3.6 |
| 4/17/2015 6:14:24 | 46.26 | 45.46 | 72 | 4.76 | 0.44 | 4.0 |
| 4/17/2015 6:14:28 | 46.59 | 45.79 | 95 | 4.36 | 0.50 | 5.2 |
| 4/17/2015 6:14:37 | 46.92 | 46.12 | 49 | 4.55 | 0.44 | 2.7 |
| 4/17/2015 6:14:41 | 47.24 | 46.44 | 86 | 4.78 | 0.45 | 4.7 |
| 4/17/2015 6:14:46 | 47.57 | 46.77 | 78 | 4.51 | 0.44 | 4.3 |
| 4/17/2015 6:14:50 | 47.90 | 47.10 | 90 | 4.28 | 0.45 | 4.9 |
| 4/17/2015 6:14:55 | 48.23 | 47.43 | 61 | 4.17 | 0.44 | 3.3 |
| 4/17/2015 6:15:01 | 48.56 | 47.76 | 65 | 4.20 | 0.48 | 3.5 |
| 4/17/2015 6:15:08 | 48.88 | 48.08 | 49 | 4.02 | 0.45 | 2.7 |
| 4/17/2015 6:15:14 | 49.21 | 48.41 | 46 | 4.30 | 0.46 | 2.5 |
| 4/17/2015 6:15:21 | 49.54 | 48.74 | 64 | 4.78 | 0.43 | 3.5 |
| 4/17/2015 6:15:27 | 49.87 | 49.07 | 52 | 4.38 | 0.45 | 2.9 |
| 4/17/2015 6:15:33 | 50.20 | 49.40 | 68 | 4.58 | 0.44 | 3.7 |
| 4/17/2015 6:15:38 | 50.53 | 49.73 | 72 | 4.66 | 0.45 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 6:15:43 | 50.85 | 50.05 | 69 | 4.44 | 0.43 | 3.8 |
| 4/17/2015 | 6:15:48 | 51.18 | 50.38 | 72 | 4.41 | 0.43 | 4.0 |
| 4/17/2015 | 6:15:53 | 51.51 | 50.71 | 72 | 4.66 | 0.43 | 3.9 |
| 4/17/2015 | 6:15:58 | 51.84 | 51.04 | 69 | 4.88 | 0.42 | 3.8 |
| 4/17/2015 | 6:16:04 | 52.17 | 51.37 | 64 | 4.67 | 0.43 | 3.5 |
| 4/17/2015 | 6:16:09 | 52.49 | 51.69 | 64 | 4.63 | 0.43 | 3.5 |
| 4/17/2015 | 6:16:15 | 52.82 | 52.02 | 63 | 4.59 | 0.46 | 3.5 |
| 4/17/2015 | 6:16:21 | 53.15 | 52.35 | 61 | 4.50 | 0.44 | 3.3 |
| 4/17/2015 | 6:16:27 | 53.48 | 52.68 | 64 | 4.53 | 0.42 | 3.5 |
| 4/17/2015 | 6:16:33 | 53.81 | 53.01 | 64 | 4.51 | 0.41 | 3.5 |
| 4/17/2015 | 6:16:38 | 54.13 | 53.33 | 69 | 4.30 | 0.43 | 3.8 |
| 4/17/2015 | 6:16:43 | 54.46 | 53.66 | 66 | 4.14 | 0.43 | 3.6 |
| 4/17/2015 | 6:16:48 | 54.79 | 53.99 | 66 | 3.88 | 0.43 | 3.6 |
| 4/17/2015 | 6:16:53 | 55.12 | 54.32 | 78 | 3.64 | 0.41 | 4.2 |
| 4/17/2015 | 6:16:56 | 55.45 | 54.65 | 130 | 3.72 | 0.41 | 7.1 |
| 4/17/2015 | 6:16:59 | 55.77 | 54.97 | 130 | 3.49 | 0.42 | 7.1 |
| 4/17/2015 | 6:17:04 | 56.10 | 55.30 | 0 | 2.48 | 0.17 | 0.0 |

## A9 - Summary

**Pattern Number:**
AreaA_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 6:09:33

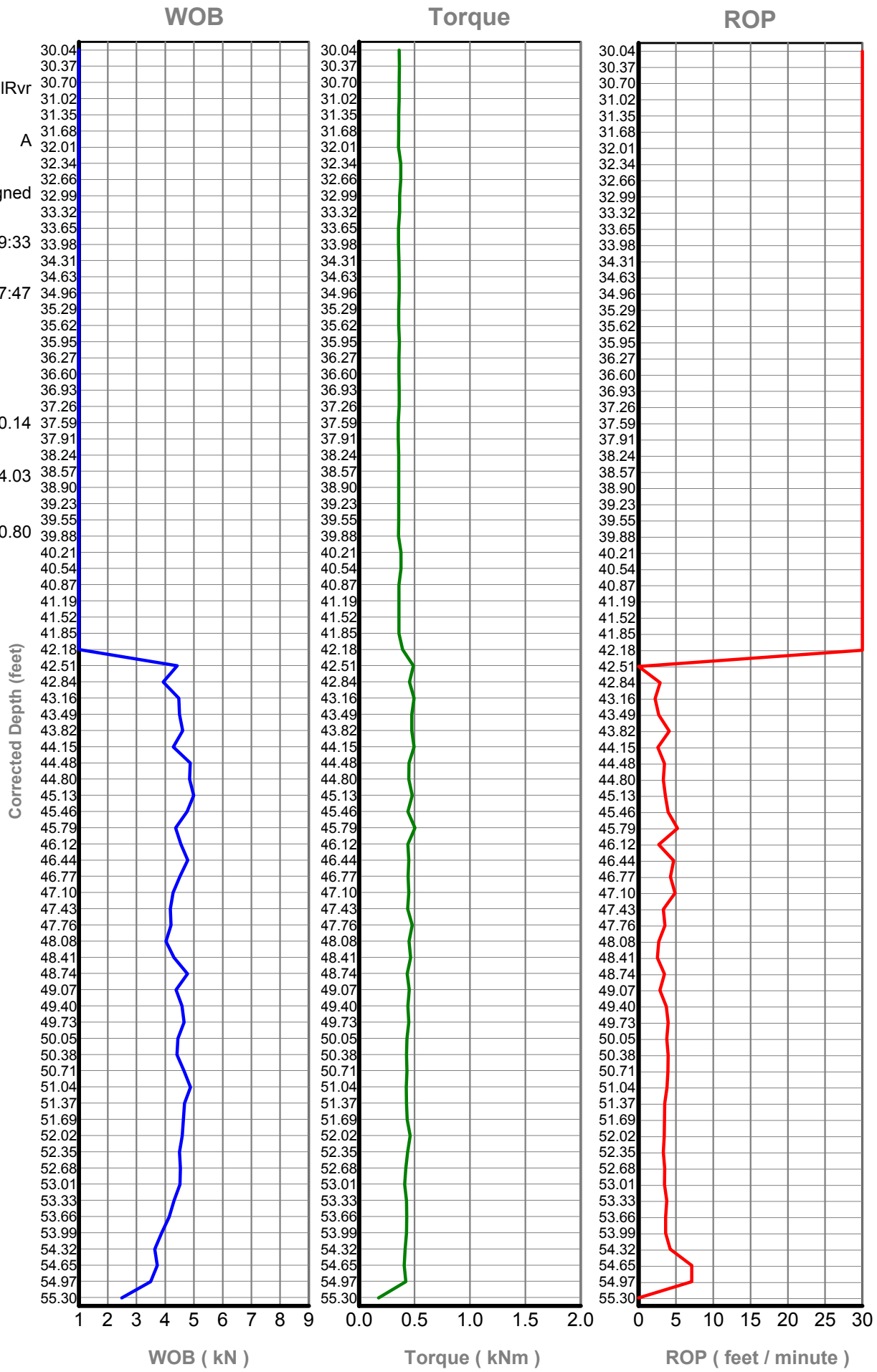
**End Date:**
4/17/2015 6:17:47

**Operator Note:**
'0.8 1 a Auto Complete'

**Northing:**
371,560.14

**Easting:**
259,514.03

**Tide (feet):**
0.80



## Hole: B1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:12:55 | 33.14 | 30.24 | 604 | 2.15 | 0.15 | 33.0 |
| 4/17/2015 9:12:56 | 33.46 | 30.56 | 604 | 2.15 | 0.15 | 33.0 |
| 4/17/2015 9:12:57 | 33.79 | 30.89 | 604 | 2.14 | 0.15 | 33.0 |
| 4/17/2015 9:12:57 | 34.12 | 31.22 | 604 | 2.15 | 0.15 | 33.0 |
| 4/17/2015 9:12:58 | 34.45 | 31.55 | 610 | 2.14 | 0.15 | 33.4 |
| 4/17/2015 9:12:58 | 34.78 | 31.88 | 604 | 2.16 | 0.14 | 33.0 |
| 4/17/2015 9:12:59 | 35.11 | 32.21 | 604 | 2.15 | 0.15 | 33.0 |
| 4/17/2015 9:12:59 | 35.43 | 32.53 | 607 | 2.15 | 0.14 | 33.2 |
| 4/17/2015 9:13:00 | 35.76 | 32.86 | 605 | 2.15 | 0.14 | 33.1 |
| 4/17/2015 9:13:01 | 36.09 | 33.19 | 601 | 2.19 | 0.14 | 32.9 |
| 4/17/2015 9:13:01 | 36.42 | 33.52 | 601 | 2.14 | 0.15 | 32.9 |
| 4/17/2015 9:13:02 | 36.75 | 33.85 | 601 | 2.15 | 0.14 | 32.9 |
| 4/17/2015 9:13:02 | 37.07 | 34.17 | 598 | 2.14 | 0.14 | 32.7 |
| 4/17/2015 9:13:03 | 37.40 | 34.50 | 601 | 2.16 | 0.15 | 32.9 |
| 4/17/2015 9:13:03 | 37.73 | 34.83 | 601 | 2.14 | 0.14 | 32.9 |
| 4/17/2015 9:13:04 | 38.06 | 35.16 | 598 | 2.16 | 0.14 | 32.7 |
| 4/17/2015 9:13:05 | 38.39 | 35.49 | 601 | 2.14 | 0.14 | 32.9 |
| 4/17/2015 9:13:05 | 38.71 | 35.81 | 598 | 2.15 | 0.14 | 32.7 |
| 4/17/2015 9:13:06 | 39.04 | 36.14 | 604 | 2.16 | 0.14 | 33.0 |
| 4/17/2015 9:13:06 | 39.37 | 36.47 | 605 | 2.15 | 0.14 | 33.1 |
| 4/17/2015 9:13:07 | 39.70 | 36.80 | 605 | 2.15 | 0.14 | 33.1 |
| 4/17/2015 9:13:08 | 40.03 | 37.13 | 604 | 2.15 | 0.14 | 33.0 |
| 4/17/2015 9:13:09 | 40.35 | 37.45 | 601 | 2.16 | 0.15 | 32.9 |
| 4/17/2015 9:13:09 | 40.68 | 37.78 | 601 | 2.15 | 0.14 | 32.9 |
| 4/17/2015 9:13:10 | 41.01 | 38.11 | 598 | 2.16 | 0.14 | 32.7 |
| 4/17/2015 9:13:10 | 41.34 | 38.44 | 598 | 2.14 | 0.14 | 32.7 |
| 4/17/2015 9:13:11 | 41.67 | 38.77 | 598 | 2.14 | 0.14 | 32.7 |
| 4/17/2015 9:13:11 | 41.99 | 39.09 | 598 | 2.16 | 0.14 | 32.7 |
| 4/17/2015 9:13:12 | 42.32 | 39.42 | 601 | 2.16 | 0.14 | 32.9 |
| 4/17/2015 9:13:13 | 42.65 | 39.75 | 598 | 2.10 | 0.14 | 32.7 |
| 4/17/2015 9:13:13 | 42.98 | 40.08 | 598 | 2.15 | 0.14 | 32.7 |
| 4/17/2015 9:13:14 | 43.31 | 40.41 | 595 | 2.16 | 0.14 | 32.5 |
| 4/17/2015 9:13:14 | 43.64 | 40.74 | 598 | 2.15 | 0.14 | 32.7 |
| 4/17/2015 9:13:15 | 43.96 | 41.06 | 598 | 2.14 | 0.14 | 32.7 |
| 4/17/2015 9:13:15 | 44.29 | 41.39 | 598 | 2.16 | 0.14 | 32.7 |
| 4/17/2015 9:13:16 | 44.62 | 41.72 | 596 | 2.15 | 0.14 | 32.6 |
| 4/17/2015 9:13:17 | 44.95 | 42.05 | 595 | 2.15 | 0.14 | 32.6 |
| 4/17/2015 9:13:18 | 45.28 | 42.38 | 595 | 2.15 | 0.14 | 32.6 |
| 4/17/2015 9:13:18 | 45.60 | 42.70 | 592 | 2.16 | 0.14 | 32.4 |
| 4/17/2015 9:13:19 | 45.93 | 43.03 | 598 | 2.16 | 0.14 | 32.7 |
| 4/17/2015 9:13:19 | 46.26 | 43.36 | 596 | 2.16 | 0.14 | 32.6 |
| 4/17/2015 9:13:20 | 46.59 | 43.69 | 596 | 2.15 | 0.14 | 32.6 |
| 4/17/2015 9:13:21 | 46.92 | 44.02 | 598 | 2.17 | 0.14 | 32.7 |
| 4/17/2015 9:13:21 | 47.24 | 44.34 | 595 | 2.16 | 0.14 | 32.6 |
| 4/17/2015 9:13:22 | 47.57 | 44.67 | 595 | 2.16 | 0.14 | 32.6 |
| 4/17/2015 9:13:22 | 47.90 | 45.00 | 595 | 2.15 | 0.14 | 32.5 |
| 4/17/2015 9:13:23 | 48.23 | 45.33 | 595 | 2.10 | 0.14 | 32.5 |
| 4/17/2015 9:13:23 | 48.56 | 45.66 | 598 | 2.15 | 0.14 | 32.7 |
| 4/17/2015 9:13:24 | 48.88 | 45.98 | 598 | 2.15 | 0.14 | 32.7 |
| 4/17/2015 9:13:25 | 49.21 | 46.31 | 599 | 2.25 | 0.14 | 32.8 |
| 4/17/2015 9:13:27 | 49.54 | 46.64 | 260 | 2.33 | 0.43 | 14.2 |
| 4/17/2015 9:13:57 | 49.87 | 46.97 | 94 | 2.25 | 1.25 | 5.2 |
| 4/17/2015 9:13:59 | 50.20 | 47.30 | 163 | 2.31 | 1.37 | 8.9 |
| 4/17/2015 9:14:01 | 50.53 | 47.63 | 234 | 2.33 | 1.52 | 12.8 |
| 4/17/2015 9:14:07 | 50.85 | 47.95 | 107 | 2.32 | 1.18 | 5.9 |
| 4/17/2015 9:14:08 | 51.18 | 48.28 | 179 | 2.33 | 1.14 | 9.8 |
| 4/17/2015 9:14:09 | 51.51 | 48.61 | 308 | 2.31 | 1.18 | 16.8 |
| 4/17/2015 9:14:10 | 51.84 | 48.94 | 333 | 2.30 | 1.22 | 18.2 |
| 4/17/2015 9:14:11 | 52.17 | 49.27 | 335 | 2.29 | 1.12 | 18.3 |
| 4/17/2015 9:14:12 | 52.49 | 49.59 | 339 | 2.32 | 1.15 | 18.5 |
| 4/17/2015 9:14:13 | 52.82 | 49.92 | 346 | 2.31 | 1.20 | 18.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:14:15 | 53.15 | 50.25 | 319 | 2.29 | 1.26 | 17.5 |
| 4/17/2015 | 9:14:17 | 53.48 | 50.58 | 130 | 2.25 | 1.16 | 7.1 |
| 4/17/2015 | 9:14:18 | 53.81 | 50.91 | 198 | 2.26 | 1.32 | 10.8 |
| 4/17/2015 | 9:14:20 | 54.13 | 51.23 | 273 | 2.23 | 1.11 | 14.9 |
| 4/17/2015 | 9:14:21 | 54.46 | 51.56 | 292 | 2.28 | 1.17 | 16.0 |
| 4/17/2015 | 9:14:23 | 54.79 | 51.89 | 256 | 2.28 | 1.18 | 14.0 |
| 4/17/2015 | 9:14:26 | 55.12 | 52.22 | 147 | 2.26 | 1.15 | 8.0 |
| 4/17/2015 | 9:14:27 | 55.45 | 52.55 | 154 | 2.33 | 1.15 | 8.4 |
| 4/17/2015 | 9:14:29 | 55.77 | 52.87 | 190 | 2.32 | 1.10 | 10.4 |
| 4/17/2015 | 9:14:31 | 56.10 | 53.20 | 233 | 2.33 | 1.15 | 12.8 |
| 4/17/2015 | 9:14:33 | 56.43 | 53.53 | 192 | 2.37 | 1.25 | 10.5 |
| 4/17/2015 | 9:14:36 | 56.76 | 53.86 | 105 | 2.35 | 1.32 | 5.8 |
| 4/17/2015 | 9:14:39 | 57.09 | 54.19 | 100 | 2.39 | 1.29 | 5.5 |
| 4/17/2015 | 9:14:46 | 57.39 | 54.49 | 29 | 2.35 | 1.28 | 1.6 |

## B1 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:11:05

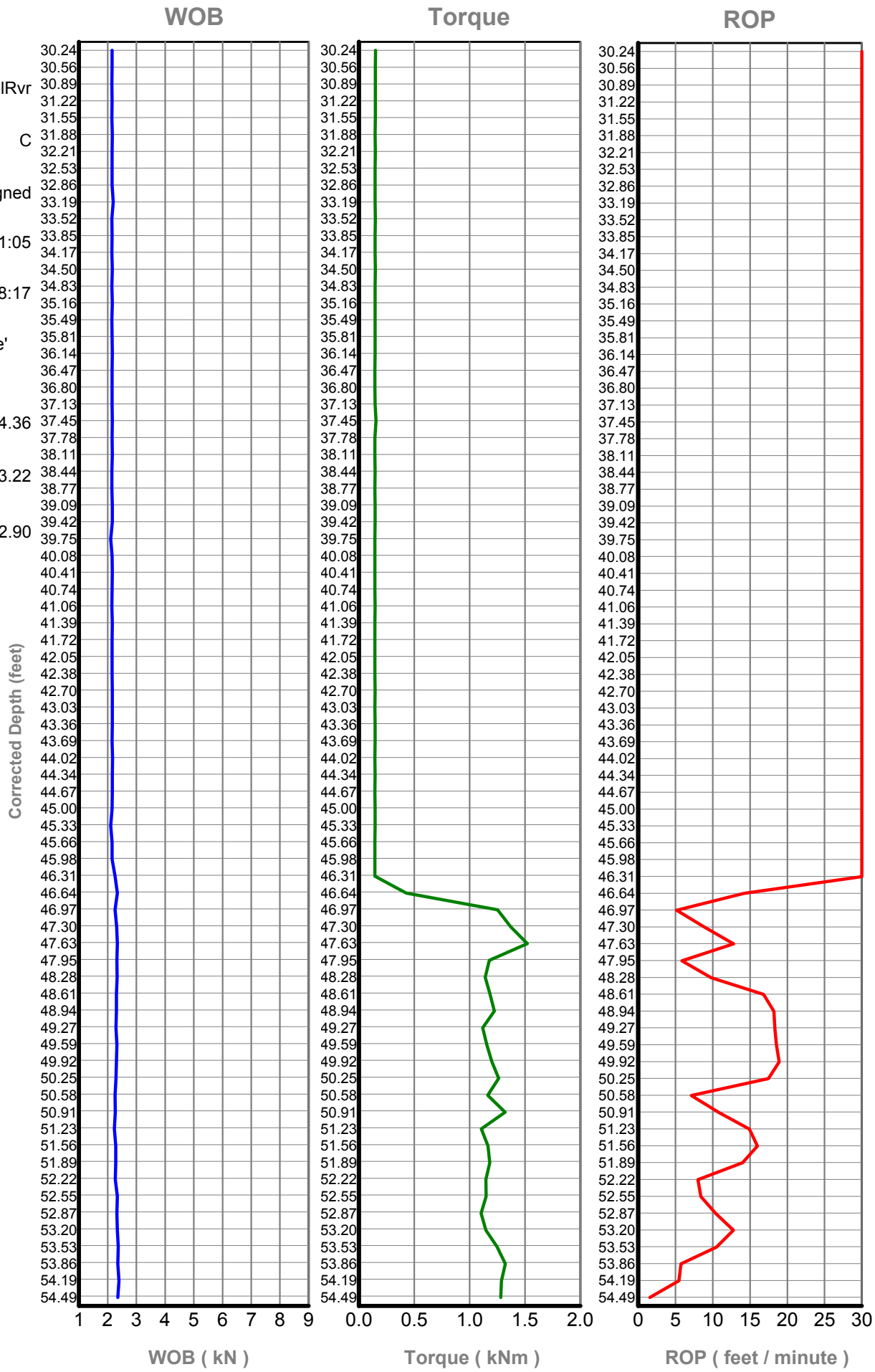
**End Date:**
4/17/2015 9:18:17

**Operator Note:**
'2.9 2.4 c Auto Complete'

**Northing:**
371,104.36

**Easting:**
259,423.22

**Tide (feet):**
2.90



## Hole: B10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 12:47:32 | 35.11 | 30.01 | 823 | 2.42 | 0.13 | 45.0 |
| 4/16/2015 12:47:32 | 35.43 | 30.33 | 823 | 2.42 | 0.13 | 45.0 |
| 4/16/2015 12:47:32 | 35.76 | 30.66 | 823 | 2.42 | 0.13 | 45.0 |
| 4/16/2015 12:47:33 | 36.09 | 30.99 | 821 | 2.44 | 0.12 | 44.9 |
| 4/16/2015 12:47:33 | 36.42 | 31.32 | 821 | 2.42 | 0.12 | 44.9 |
| 4/16/2015 12:47:34 | 36.75 | 31.65 | 824 | 2.44 | 0.12 | 45.1 |
| 4/16/2015 12:47:51 | 37.07 | 31.97 | 0 | 2.45 | 0.12 | 0.0 |
| 4/16/2015 12:47:51 | 37.40 | 32.30 | 61 | 2.44 | 0.13 | 3.3 |
| 4/16/2015 12:47:52 | 37.73 | 32.63 | 235 | 2.43 | 0.13 | 12.8 |
| 4/16/2015 12:47:52 | 38.06 | 32.96 | 235 | 2.43 | 0.13 | 12.8 |
| 4/16/2015 12:47:52 | 38.39 | 33.29 | 412 | 2.44 | 0.13 | 22.5 |
| 4/16/2015 12:47:53 | 38.71 | 33.61 | 597 | 2.42 | 0.13 | 32.7 |
| 4/16/2015 12:47:53 | 39.04 | 33.94 | 771 | 2.42 | 0.13 | 42.2 |
| 4/16/2015 12:47:54 | 39.37 | 34.27 | 771 | 2.42 | 0.13 | 42.2 |
| 4/16/2015 12:47:54 | 39.70 | 34.60 | 893 | 2.41 | 0.13 | 48.9 |
| 4/16/2015 12:47:54 | 40.03 | 34.93 | 896 | 2.41 | 0.13 | 49.0 |
| 4/16/2015 12:47:55 | 40.35 | 35.25 | 896 | 2.40 | 0.13 | 49.0 |
| 4/16/2015 12:47:56 | 40.68 | 35.58 | 896 | 2.40 | 0.13 | 49.0 |
| 4/16/2015 12:47:56 | 41.01 | 35.91 | 893 | 2.42 | 0.13 | 48.8 |
| 4/16/2015 12:47:56 | 41.34 | 36.24 | 893 | 2.42 | 0.13 | 48.8 |
| 4/16/2015 12:47:57 | 41.67 | 36.57 | 888 | 2.43 | 0.13 | 48.5 |
| 4/16/2015 12:47:57 | 41.99 | 36.89 | 893 | 2.42 | 0.13 | 48.8 |
| 4/16/2015 12:47:58 | 42.32 | 37.22 | 893 | 2.42 | 0.13 | 48.8 |
| 4/16/2015 12:47:58 | 42.65 | 37.55 | 890 | 2.42 | 0.13 | 48.7 |
| 4/16/2015 12:47:58 | 42.98 | 37.88 | 887 | 2.42 | 0.13 | 48.5 |
| 4/16/2015 12:47:59 | 43.31 | 38.21 | 890 | 2.42 | 0.13 | 48.7 |
| 4/16/2015 12:47:59 | 43.64 | 38.54 | 890 | 2.42 | 0.13 | 48.7 |
| 4/16/2015 12:47:59 | 43.96 | 38.86 | 890 | 2.41 | 0.13 | 48.7 |
| 4/16/2015 12:48:00 | 44.29 | 39.19 | 887 | 2.41 | 0.13 | 48.5 |
| 4/16/2015 12:48:00 | 44.62 | 39.52 | 890 | 2.42 | 0.13 | 48.7 |
| 4/16/2015 12:48:01 | 44.95 | 39.85 | 890 | 2.42 | 0.13 | 48.7 |
| 4/16/2015 12:48:01 | 45.28 | 40.18 | 885 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:01 | 45.60 | 40.50 | 887 | 2.42 | 0.13 | 48.5 |
| 4/16/2015 12:48:02 | 45.93 | 40.83 | 885 | 2.41 | 0.13 | 48.4 |
| 4/16/2015 12:48:02 | 46.26 | 41.16 | 885 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:03 | 46.59 | 41.49 | 885 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:03 | 46.92 | 41.82 | 882 | 2.41 | 0.13 | 48.2 |
| 4/16/2015 12:48:03 | 47.24 | 42.14 | 887 | 2.42 | 0.13 | 48.5 |
| 4/16/2015 12:48:04 | 47.57 | 42.47 | 884 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:04 | 47.90 | 42.80 | 884 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:04 | 48.23 | 43.13 | 884 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:05 | 48.56 | 43.46 | 882 | 2.42 | 0.07 | 48.2 |
| 4/16/2015 12:48:06 | 48.88 | 43.78 | 887 | 2.41 | 0.13 | 48.5 |
| 4/16/2015 12:48:06 | 49.21 | 44.11 | 882 | 2.42 | 0.13 | 48.2 |
| 4/16/2015 12:48:07 | 49.54 | 44.44 | 882 | 2.42 | 0.13 | 48.2 |
| 4/16/2015 12:48:07 | 49.87 | 44.77 | 885 | 2.42 | 0.13 | 48.4 |
| 4/16/2015 12:48:07 | 50.20 | 45.10 | 885 | 2.51 | 0.13 | 48.4 |
| 4/16/2015 12:48:24 | 50.53 | 45.43 | 50 | 2.57 | 1.02 | 2.7 |
| 4/16/2015 12:48:28 | 50.85 | 45.75 | 116 | 2.64 | 1.50 | 6.3 |
| 4/16/2015 12:48:35 | 51.18 | 46.08 | 80 | 2.55 | 1.16 | 4.4 |
| 4/16/2015 12:48:36 | 51.51 | 46.41 | 216 | 2.60 | 1.17 | 11.8 |
| 4/16/2015 12:48:37 | 51.84 | 46.74 | 342 | 2.58 | 1.18 | 18.7 |
| 4/16/2015 12:48:38 | 52.17 | 47.07 | 347 | 2.61 | 1.22 | 19.0 |
| 4/16/2015 12:48:39 | 52.49 | 47.39 | 338 | 2.63 | 1.19 | 18.5 |
| 4/16/2015 12:48:40 | 52.82 | 47.72 | 324 | 2.59 | 1.16 | 17.7 |
| 4/16/2015 12:48:41 | 53.15 | 48.05 | 321 | 2.60 | 1.15 | 17.5 |
| 4/16/2015 12:48:42 | 53.48 | 48.38 | 312 | 2.57 | 1.08 | 17.1 |
| 4/16/2015 12:48:43 | 53.81 | 48.71 | 326 | 2.59 | 1.06 | 17.8 |
| 4/16/2015 12:48:44 | 54.13 | 49.03 | 340 | 2.59 | 1.03 | 18.6 |
| 4/16/2015 12:48:45 | 54.46 | 49.36 | 350 | 2.61 | 1.06 | 19.1 |
| 4/16/2015 12:48:46 | 54.79 | 49.69 | 350 | 2.57 | 1.05 | 19.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 12:48:48 | 55.12 | 50.02 | 354 | 2.59 | 1.01 | 19.4 |
| 4/16/2015 | 12:48:49 | 55.45 | 50.35 | 344 | 2.59 | 0.98 | 18.8 |
| 4/16/2015 | 12:48:50 | 55.77 | 50.67 | 338 | 2.58 | 1.00 | 18.5 |
| 4/16/2015 | 12:48:51 | 56.10 | 51.00 | 330 | 2.65 | 1.00 | 18.1 |
| 4/16/2015 | 12:48:52 | 56.43 | 51.33 | 324 | 2.63 | 1.01 | 17.7 |
| 4/16/2015 | 12:48:53 | 56.76 | 51.66 | 324 | 2.60 | 0.98 | 17.7 |
| 4/16/2015 | 12:48:54 | 57.09 | 51.99 | 324 | 2.61 | 0.97 | 17.7 |
| 4/16/2015 | 12:48:55 | 57.41 | 52.31 | 322 | 2.63 | 0.95 | 17.6 |
| 4/16/2015 | 12:48:56 | 57.74 | 52.64 | 327 | 2.61 | 0.97 | 17.9 |
| 4/16/2015 | 12:48:58 | 58.07 | 52.97 | 330 | 2.60 | 0.97 | 18.0 |
| 4/16/2015 | 12:48:59 | 58.40 | 53.30 | 330 | 2.61 | 1.02 | 18.0 |
| 4/16/2015 | 12:49:00 | 58.73 | 53.63 | 324 | 2.57 | 1.05 | 17.7 |
| 4/16/2015 | 12:49:01 | 59.06 | 53.96 | 329 | 2.62 | 1.06 | 18.0 |
| 4/16/2015 | 12:49:02 | 59.38 | 54.28 | 332 | 2.59 | 1.15 | 18.1 |
| 4/16/2015 | 12:49:03 | 59.71 | 54.61 | 321 | 2.63 | 1.12 | 17.6 |
| 4/16/2015 | 12:49:04 | 60.04 | 54.94 | 320 | 2.60 | 1.10 | 17.5 |
| 4/16/2015 | 12:49:05 | 60.37 | 55.27 | 315 | 2.60 | 1.11 | 17.2 |
| 4/16/2015 | 12:49:06 | 60.70 | 55.60 | 315 | 2.61 | 1.12 | 17.2 |
| 4/16/2015 | 12:49:07 | 60.73 | 55.63 | 309 | 2.61 | 1.23 | 16.9 |

## B10 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 12:45:49

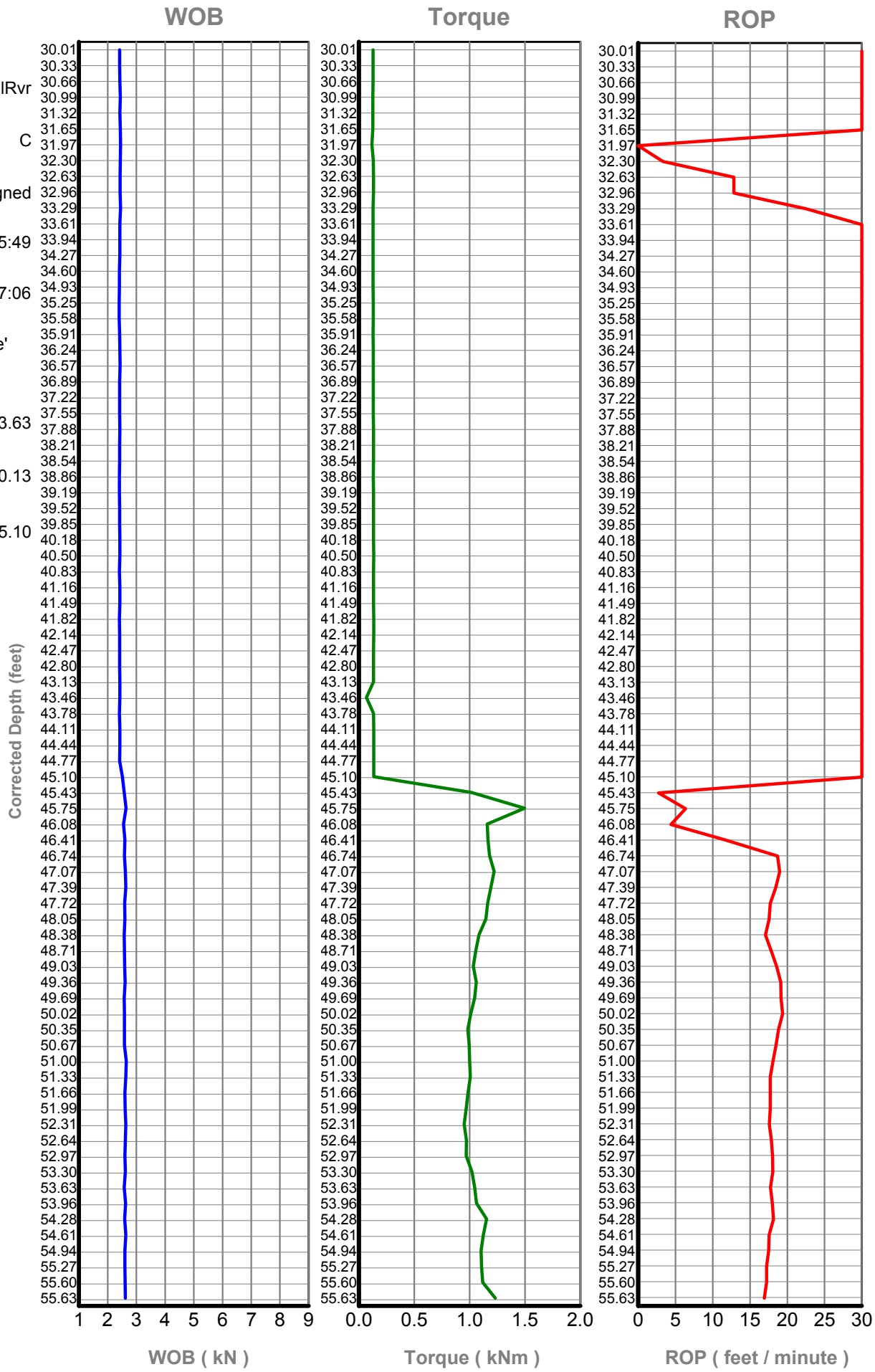
**End Date:**
4/16/2015 13:07:06

**Operator Note:**
'5.1 5.6 c Auto Complete'

**Northing:**
371,083.63

**Easting:**
260,100.13

**Tide (feet):**
5.10



## Hole: B11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:57:58 | 32.81 | 30.21 | 572 | 2.19 | 0.15 | 31.3 |
| 4/17/2015 8:57:59 | 33.14 | 30.54 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 8:57:59 | 33.46 | 30.86 | 572 | 2.17 | 0.14 | 31.3 |
| 4/17/2015 8:58:00 | 33.79 | 31.19 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 8:58:01 | 34.12 | 31.52 | 582 | 2.17 | 0.15 | 31.8 |
| 4/17/2015 8:58:02 | 34.45 | 31.85 | 579 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 8:58:02 | 34.78 | 32.18 | 579 | 2.14 | 0.15 | 31.7 |
| 4/17/2015 8:58:03 | 35.11 | 32.51 | 576 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:58:03 | 35.43 | 32.83 | 579 | 2.17 | 0.14 | 31.6 |
| 4/17/2015 8:58:04 | 35.76 | 33.16 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 8:58:05 | 36.09 | 33.49 | 569 | 2.16 | 0.14 | 31.1 |
| 4/17/2015 8:58:05 | 36.42 | 33.82 | 576 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 8:58:06 | 36.75 | 34.15 | 573 | 2.15 | 0.13 | 31.3 |
| 4/17/2015 8:58:06 | 37.07 | 34.47 | 579 | 2.15 | 0.15 | 31.7 |
| 4/17/2015 8:58:07 | 37.40 | 34.80 | 576 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:58:08 | 37.73 | 35.13 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 8:58:08 | 38.06 | 35.46 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:58:09 | 38.39 | 35.79 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 8:58:09 | 38.71 | 36.11 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:58:10 | 39.04 | 36.44 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:58:11 | 39.37 | 36.77 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 8:58:11 | 39.70 | 37.10 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 8:58:12 | 40.03 | 37.43 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:58:13 | 40.35 | 37.75 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:58:13 | 40.68 | 38.08 | 568 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 8:58:14 | 41.01 | 38.41 | 573 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 8:58:15 | 41.34 | 38.74 | 576 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:58:15 | 41.67 | 39.07 | 576 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:58:16 | 41.99 | 39.39 | 583 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 8:58:16 | 42.32 | 39.72 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 8:58:17 | 42.65 | 40.05 | 569 | 2.17 | 0.15 | 31.1 |
| 4/17/2015 8:58:18 | 42.98 | 40.38 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 8:58:18 | 43.31 | 40.71 | 569 | 2.17 | 0.15 | 31.1 |
| 4/17/2015 8:58:19 | 43.64 | 41.04 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:58:19 | 43.96 | 41.36 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 8:58:20 | 44.29 | 41.69 | 563 | 2.17 | 0.14 | 30.8 |
| 4/17/2015 8:58:21 | 44.62 | 42.02 | 563 | 2.15 | 0.15 | 30.8 |
| 4/17/2015 8:58:21 | 44.95 | 42.35 | 569 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 8:58:22 | 45.28 | 42.68 | 566 | 2.15 | 0.14 | 30.9 |
| 4/17/2015 8:58:23 | 45.60 | 43.00 | 569 | 2.14 | 0.15 | 31.1 |
| 4/17/2015 8:58:24 | 45.93 | 43.33 | 575 | 2.17 | 0.14 | 31.4 |
| 4/17/2015 8:58:24 | 46.26 | 43.66 | 572 | 2.16 | 0.14 | 31.3 |
| 4/17/2015 8:58:25 | 46.59 | 43.99 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 8:58:25 | 46.92 | 44.32 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 8:58:26 | 47.24 | 44.64 | 572 | 2.17 | 0.14 | 31.3 |
| 4/17/2015 8:58:27 | 47.57 | 44.97 | 569 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 8:58:27 | 47.90 | 45.30 | 571 | 2.16 | 0.14 | 31.2 |
| 4/17/2015 8:58:28 | 48.23 | 45.63 | 568 | 2.18 | 0.15 | 31.1 |
| 4/17/2015 8:59:00 | 48.56 | 45.96 | 9 | 2.33 | 1.26 | 0.5 |
| 4/17/2015 8:59:05 | 48.88 | 46.28 | 79 | 2.25 | 1.21 | 4.3 |
| 4/17/2015 8:59:06 | 49.21 | 46.61 | 122 | 2.23 | 1.13 | 6.7 |
| 4/17/2015 8:59:06 | 49.54 | 46.94 | 205 | 2.24 | 1.06 | 11.2 |
| 4/17/2015 8:59:07 | 49.87 | 47.27 | 348 | 2.26 | 1.13 | 19.0 |
| 4/17/2015 8:59:08 | 50.20 | 47.60 | 451 | 2.23 | 1.06 | 24.7 |
| 4/17/2015 8:59:09 | 50.53 | 47.93 | 443 | 2.23 | 1.05 | 24.2 |
| 4/17/2015 8:59:09 | 50.85 | 48.25 | 441 | 2.22 | 1.03 | 24.1 |
| 4/17/2015 8:59:10 | 51.18 | 48.58 | 452 | 2.25 | 1.05 | 24.7 |
| 4/17/2015 8:59:11 | 51.51 | 48.91 | 464 | 2.21 | 1.07 | 25.3 |
| 4/17/2015 8:59:12 | 51.84 | 49.24 | 472 | 2.19 | 1.05 | 25.8 |
| 4/17/2015 8:59:12 | 52.17 | 49.57 | 472 | 2.19 | 1.06 | 25.8 |
| 4/17/2015 8:59:13 | 52.49 | 49.89 | 469 | 2.19 | 1.08 | 25.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:59:14 | 52.82 | 50.22 | 469 | 2.21 | 1.16 | 25.7 |
| 4/17/2015 | 8:59:15 | 53.15 | 50.55 | 426 | 2.21 | 1.09 | 23.3 |
| 4/17/2015 | 8:59:16 | 53.48 | 50.88 | 381 | 2.25 | 1.21 | 20.8 |
| 4/17/2015 | 8:59:18 | 53.81 | 51.21 | 321 | 2.22 | 1.05 | 17.5 |
| 4/17/2015 | 8:59:18 | 54.13 | 51.53 | 330 | 2.19 | 1.02 | 18.1 |
| 4/17/2015 | 8:59:19 | 54.46 | 51.86 | 393 | 2.19 | 1.10 | 21.5 |
| 4/17/2015 | 8:59:20 | 54.79 | 52.19 | 417 | 2.23 | 1.14 | 22.8 |
| 4/17/2015 | 8:59:24 | 55.12 | 52.52 | 75 | 2.32 | 1.39 | 4.1 |
| 4/17/2015 | 8:59:26 | 55.45 | 52.85 | 152 | 2.33 | 1.25 | 8.3 |
| 4/17/2015 | 8:59:28 | 55.77 | 53.17 | 234 | 2.36 | 1.32 | 12.8 |
| 4/17/2015 | 8:59:30 | 56.10 | 53.50 | 127 | 2.37 | 1.29 | 7.0 |
| 4/17/2015 | 8:59:33 | 56.43 | 53.83 | 127 | 2.34 | 1.24 | 7.0 |
| 4/17/2015 | 8:59:36 | 56.76 | 54.16 | 150 | 2.34 | 1.27 | 8.2 |
| 4/17/2015 | 8:59:38 | 57.09 | 54.49 | 166 | 2.37 | 1.21 | 9.1 |
| 4/17/2015 | 9:00:40 | 57.41 | 54.81 | 3 | 2.33 | 1.32 | 0.2 |

## B11 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:56:02

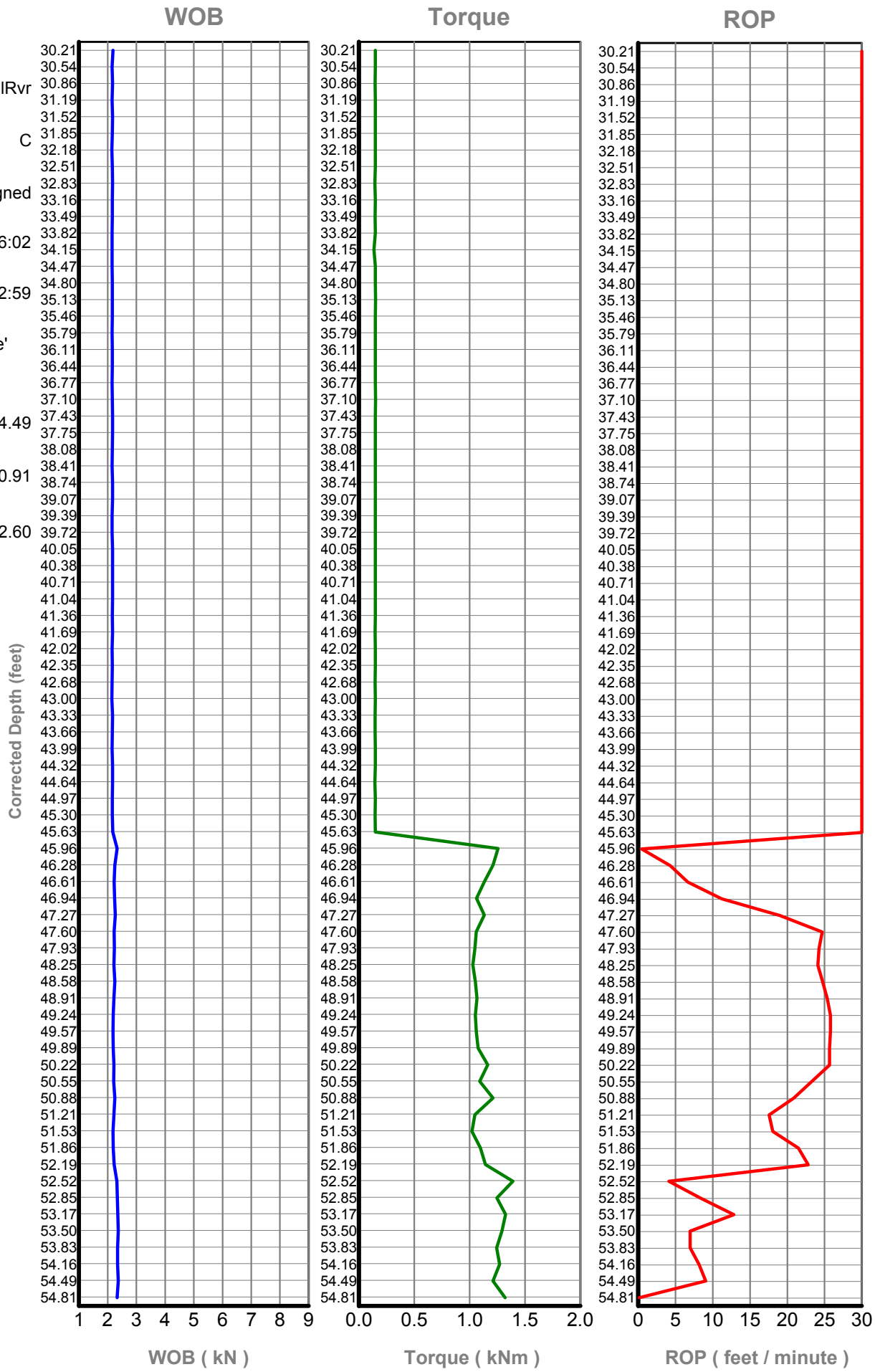
**End Date:**
4/17/2015 9:02:59

**Operator Note:**
'2.6 2.4 c Auto Complete'

**Northing:**
371,034.49

**Easting:**
259,420.91

**Tide (feet):**
2.60



## Hole: B12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:05:34 | 33.79 | 30.19 | 1,187 | 0.55 | 0.36 | 64.9 |
| 4/17/2015 3:05:34 | 34.12 | 30.52 | 1,194 | 0.55 | 0.36 | 65.3 |
| 4/17/2015 3:05:34 | 34.45 | 30.85 | 1,194 | 0.55 | 0.36 | 65.3 |
| 4/17/2015 3:05:34 | 34.78 | 31.18 | 1,194 | 0.55 | 0.36 | 65.3 |
| 4/17/2015 3:05:35 | 35.11 | 31.51 | 1,207 | 0.55 | 0.35 | 66.0 |
| 4/17/2015 3:05:35 | 35.43 | 31.83 | 1,207 | 0.55 | 0.35 | 66.0 |
| 4/17/2015 3:05:35 | 35.76 | 32.16 | 1,204 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:36 | 36.09 | 32.49 | 1,204 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:36 | 36.42 | 32.82 | 1,207 | 0.55 | 0.36 | 66.0 |
| 4/17/2015 3:05:36 | 36.75 | 33.15 | 1,207 | 0.55 | 0.36 | 66.0 |
| 4/17/2015 3:05:36 | 37.07 | 33.47 | 1,196 | 0.55 | 0.36 | 65.4 |
| 4/17/2015 3:05:37 | 37.40 | 33.80 | 1,209 | 0.48 | 0.36 | 66.1 |
| 4/17/2015 3:05:37 | 37.73 | 34.13 | 1,209 | 0.48 | 0.36 | 66.1 |
| 4/17/2015 3:05:37 | 38.06 | 34.46 | 1,209 | 0.56 | 0.36 | 66.1 |
| 4/17/2015 3:05:38 | 38.39 | 34.79 | 1,209 | 0.56 | 0.36 | 66.1 |
| 4/17/2015 3:05:38 | 38.71 | 35.11 | 1,209 | 0.55 | 0.36 | 66.1 |
| 4/17/2015 3:05:38 | 39.04 | 35.44 | 1,209 | 0.55 | 0.36 | 66.1 |
| 4/17/2015 3:05:38 | 39.37 | 35.77 | 1,199 | 0.55 | 0.35 | 65.5 |
| 4/17/2015 3:05:39 | 39.70 | 36.10 | 1,219 | 0.54 | 0.36 | 66.6 |
| 4/17/2015 3:05:39 | 40.03 | 36.43 | 1,219 | 0.54 | 0.36 | 66.6 |
| 4/17/2015 3:05:39 | 40.35 | 36.75 | 1,208 | 0.54 | 0.36 | 66.1 |
| 4/17/2015 3:05:40 | 40.68 | 37.08 | 1,208 | 0.54 | 0.36 | 66.1 |
| 4/17/2015 3:05:40 | 41.01 | 37.41 | 1,203 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:41 | 41.34 | 37.74 | 1,203 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:41 | 41.67 | 38.07 | 1,203 | 0.55 | 0.35 | 65.8 |
| 4/17/2015 3:05:41 | 41.99 | 38.39 | 1,205 | 0.55 | 0.36 | 65.9 |
| 4/17/2015 3:05:42 | 42.32 | 38.72 | 1,205 | 0.55 | 0.36 | 65.9 |
| 4/17/2015 3:05:42 | 42.65 | 39.05 | 1,200 | 0.55 | 0.36 | 65.6 |
| 4/17/2015 3:05:42 | 42.98 | 39.38 | 1,200 | 0.55 | 0.36 | 65.6 |
| 4/17/2015 3:05:42 | 43.31 | 39.71 | 1,200 | 0.55 | 0.36 | 65.6 |
| 4/17/2015 3:05:43 | 43.64 | 40.04 | 1,200 | 0.55 | 0.36 | 65.6 |
| 4/17/2015 3:05:43 | 43.96 | 40.36 | 1,192 | 0.56 | 0.35 | 65.2 |
| 4/17/2015 3:05:43 | 44.29 | 40.69 | 1,203 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:44 | 44.62 | 41.02 | 1,203 | 0.55 | 0.36 | 65.8 |
| 4/17/2015 3:05:44 | 44.95 | 41.35 | 1,197 | 0.55 | 0.36 | 65.5 |
| 4/17/2015 3:05:44 | 45.28 | 41.68 | 1,197 | 0.55 | 0.36 | 65.5 |
| 4/17/2015 3:05:44 | 45.60 | 42.00 | 1,194 | 0.55 | 0.36 | 65.3 |
| 4/17/2015 3:05:45 | 45.93 | 42.33 | 1,194 | 0.55 | 0.36 | 65.3 |
| 4/17/2015 3:05:45 | 46.26 | 42.66 | 1,191 | 0.55 | 0.36 | 65.1 |
| 4/17/2015 3:05:45 | 46.59 | 42.99 | 1,197 | 0.56 | 0.36 | 65.4 |
| 4/17/2015 3:05:46 | 46.92 | 43.32 | 1,197 | 0.56 | 0.36 | 65.4 |
| 4/17/2015 3:05:46 | 47.24 | 43.64 | 1,188 | 0.55 | 0.36 | 65.0 |
| 4/17/2015 3:05:46 | 47.57 | 43.97 | 1,188 | 0.55 | 0.36 | 65.0 |
| 4/17/2015 3:05:46 | 47.90 | 44.30 | 1,188 | 0.54 | 0.36 | 65.0 |
| 4/17/2015 3:05:47 | 48.23 | 44.63 | 1,188 | 0.54 | 0.36 | 65.0 |
| 4/17/2015 3:05:47 | 48.56 | 44.96 | 1,181 | 0.55 | 0.36 | 64.6 |
| 4/17/2015 3:05:47 | 48.88 | 45.28 | 1,191 | 0.55 | 0.35 | 65.1 |
| 4/17/2015 3:05:48 | 49.21 | 45.61 | 1,191 | 0.55 | 0.35 | 65.1 |
| 4/17/2015 3:05:48 | 49.54 | 45.94 | 1,185 | 0.55 | 0.36 | 64.8 |
| 4/17/2015 3:05:48 | 49.87 | 46.27 | 1,185 | 0.55 | 0.36 | 64.8 |
| 4/17/2015 3:05:48 | 50.20 | 46.60 | 1,185 | 0.55 | 0.36 | 64.8 |
| 4/17/2015 3:05:49 | 50.53 | 46.93 | 1,177 | 0.55 | 0.41 | 64.3 |
| 4/17/2015 3:06:16 | 50.85 | 47.25 | 23 | 4.61 | 0.44 | 1.3 |
| 4/17/2015 3:06:17 | 51.18 | 47.58 | 154 | 3.55 | 0.43 | 8.4 |
| 4/17/2015 3:06:17 | 51.51 | 47.91 | 154 | 3.55 | 0.43 | 8.4 |
| 4/17/2015 3:06:18 | 51.84 | 48.24 | 318 | 3.20 | 0.44 | 17.4 |
| 4/17/2015 3:06:18 | 52.17 | 48.57 | 318 | 3.20 | 0.44 | 17.4 |
| 4/17/2015 3:06:18 | 52.49 | 48.89 | 509 | 3.14 | 0.44 | 27.8 |
| 4/17/2015 3:06:19 | 52.82 | 49.22 | 712 | 3.16 | 0.43 | 38.9 |
| 4/17/2015 3:06:19 | 53.15 | 49.55 | 884 | 3.30 | 0.44 | 48.3 |
| 4/17/2015 3:06:20 | 53.48 | 49.88 | 884 | 3.30 | 0.44 | 48.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:06:20 | 53.81 | 50.21 | 934 | 3.41 | 0.44 | 51.1 |
| 4/17/2015 | 3:06:20 | 54.13 | 50.53 | 934 | 3.54 | 0.46 | 51.1 |
| 4/17/2015 | 3:06:22 | 54.46 | 50.86 | 745 | 4.56 | 0.47 | 40.7 |
| 4/17/2015 | 3:06:25 | 54.79 | 51.19 | 75 | 4.93 | 0.48 | 4.1 |
| 4/17/2015 | 3:06:32 | 55.12 | 51.52 | 15 | 5.38 | 0.43 | 0.8 |
| 4/17/2015 | 3:06:43 | 55.45 | 51.85 | 54 | 4.78 | 0.49 | 3.0 |
| 4/17/2015 | 3:06:45 | 55.77 | 52.17 | 192 | 4.91 | 0.44 | 10.5 |
| 4/17/2015 | 3:06:46 | 56.10 | 52.50 | 182 | 4.64 | 0.44 | 10.0 |
| 4/17/2015 | 3:06:48 | 56.43 | 52.83 | 220 | 4.14 | 0.49 | 12.0 |
| 4/17/2015 | 3:06:51 | 56.76 | 53.16 | 109 | 4.19 | 0.48 | 6.0 |
| 4/17/2015 | 3:06:56 | 57.09 | 53.49 | 80 | 4.19 | 0.47 | 4.4 |
| 4/17/2015 | 3:07:00 | 57.41 | 53.81 | 85 | 4.18 | 0.49 | 4.7 |
| 4/17/2015 | 3:07:05 | 57.74 | 54.14 | 69 | 3.92 | 0.49 | 3.8 |
| 4/17/2015 | 3:07:12 | 58.07 | 54.47 | 43 | 4.34 | 0.48 | 2.4 |
| 4/17/2015 | 3:07:21 | 58.40 | 54.80 | 41 | 4.26 | 0.48 | 2.2 |
| 4/17/2015 | 3:07:30 | 58.73 | 55.13 | 45 | 4.32 | 0.49 | 2.5 |
| 4/17/2015 | 3:07:36 | 58.93 | 55.33 | 32 | 3.97 | 0.17 | 1.7 |

## B12 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:02:16

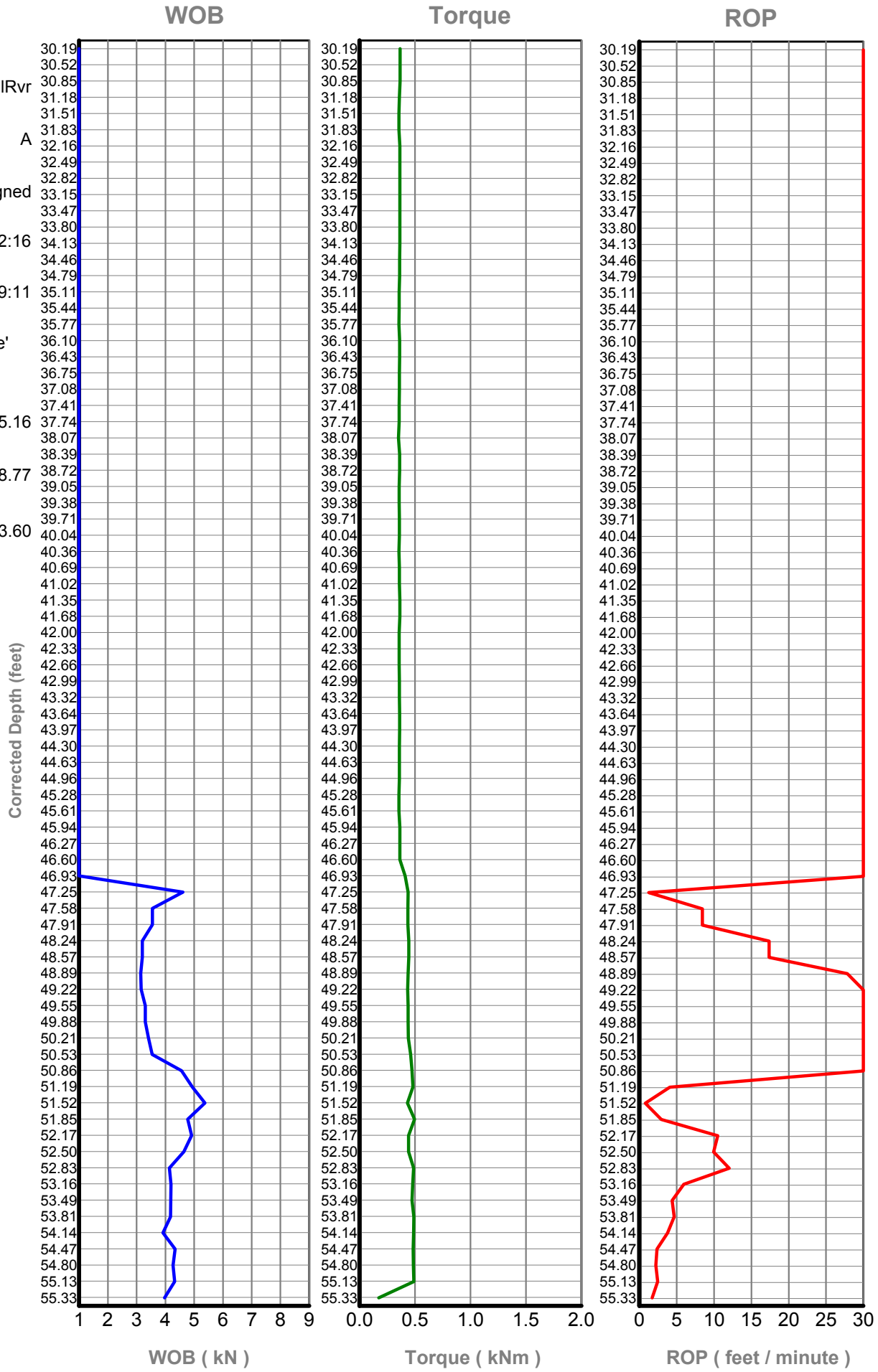
**End Date:**
4/17/2015 3:09:11

**Operator Note:**
'3.6 3.9 a Auto Complete'

**Northing:**
371,035.16

**Easting:**
259,488.77

**Tide (feet):**
3.60



## Hole: B13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:04:13 | 33.79 | 30.19 | 962 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:14 | 34.12 | 30.52 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 3:04:14 | 34.45 | 30.85 | 954 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:15 | 34.78 | 31.18 | 954 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:32 | 35.11 | 31.51 | 1 | 0.29 | 0.42 | 0.1 |
| 4/17/2015 3:04:33 | 35.43 | 31.83 | 1 | 0.29 | 0.42 | 0.1 |
| 4/17/2015 3:04:33 | 35.76 | 32.16 | 141 | 0.29 | 0.42 | 7.7 |
| 4/17/2015 3:04:33 | 36.09 | 32.49 | 344 | 0.29 | 0.42 | 18.8 |
| 4/17/2015 3:04:34 | 36.42 | 32.82 | 543 | 0.29 | 0.42 | 29.7 |
| 4/17/2015 3:04:34 | 36.75 | 33.15 | 543 | 0.29 | 0.42 | 29.7 |
| 4/17/2015 3:04:34 | 37.07 | 33.47 | 728 | 0.29 | 0.42 | 39.8 |
| 4/17/2015 3:04:35 | 37.40 | 33.80 | 917 | 0.29 | 0.42 | 50.1 |
| 4/17/2015 3:04:35 | 37.73 | 34.13 | 917 | 0.29 | 0.42 | 50.1 |
| 4/17/2015 3:04:36 | 38.06 | 34.46 | 981 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 3:04:36 | 38.39 | 34.79 | 961 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:37 | 38.71 | 35.11 | 961 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:37 | 39.04 | 35.44 | 961 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:37 | 39.37 | 35.77 | 955 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:38 | 39.70 | 36.10 | 955 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:38 | 40.03 | 36.43 | 955 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:38 | 40.35 | 36.75 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 3:04:39 | 40.68 | 37.08 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 3:04:39 | 41.01 | 37.41 | 965 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 3:04:40 | 41.34 | 37.74 | 965 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 3:04:40 | 41.67 | 38.07 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 3:04:40 | 41.99 | 38.39 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 3:04:41 | 42.32 | 38.72 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 3:04:41 | 42.65 | 39.05 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 3:04:41 | 42.98 | 39.38 | 944 | 0.29 | 0.42 | 51.6 |
| 4/17/2015 3:04:42 | 43.31 | 39.71 | 944 | 0.29 | 0.42 | 51.6 |
| 4/17/2015 3:04:42 | 43.64 | 40.04 | 944 | 0.29 | 0.42 | 51.6 |
| 4/17/2015 3:04:42 | 43.96 | 40.36 | 963 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:43 | 44.29 | 40.69 | 954 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:43 | 44.62 | 41.02 | 954 | 0.29 | 0.42 | 52.2 |
| 4/17/2015 3:04:43 | 44.95 | 41.35 | 959 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 3:04:44 | 45.28 | 41.68 | 970 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 3:04:44 | 45.60 | 42.00 | 981 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 3:04:45 | 45.93 | 42.33 | 981 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 3:04:45 | 46.26 | 42.66 | 963 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 3:04:45 | 46.59 | 42.99 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 3:04:46 | 46.92 | 43.32 | 968 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 3:04:46 | 47.24 | 43.64 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 3:04:46 | 47.57 | 43.97 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 3:04:47 | 47.90 | 44.30 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 3:04:47 | 48.23 | 44.63 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 3:04:48 | 48.56 | 44.96 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 3:04:48 | 48.88 | 45.28 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 3:04:49 | 49.21 | 45.61 | 977 | 0.29 | 0.42 | 53.4 |
| 4/17/2015 3:04:49 | 49.54 | 45.94 | 983 | 0.29 | 0.42 | 53.7 |
| 4/17/2015 3:04:49 | 49.87 | 46.27 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 3:04:50 | 50.20 | 46.60 | 983 | 0.29 | 0.42 | 53.8 |
| 4/17/2015 3:04:53 | 50.53 | 46.93 | 93 | 0.29 | 0.42 | 5.1 |
| 4/17/2015 3:04:57 | 50.85 | 47.25 | 41 | 0.29 | 0.42 | 2.3 |
| 4/17/2015 3:05:56 | 51.18 | 47.58 | 59 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 3:05:59 | 51.51 | 47.91 | 127 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 3:06:02 | 51.84 | 48.24 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 3:06:07 | 52.17 | 48.57 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 3:06:28 | 52.49 | 48.89 | 38 | 0.29 | 0.42 | 2.1 |
| 4/17/2015 3:06:29 | 52.82 | 49.22 | 150 | 0.29 | 0.42 | 8.2 |
| 4/17/2015 3:06:30 | 53.15 | 49.55 | 265 | 0.29 | 0.42 | 14.5 |
| 4/17/2015 3:06:32 | 53.48 | 49.88 | 311 | 0.29 | 0.42 | 17.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:06:33 | 53.81 | 50.21 | 271 | 0.29 | 0.42 | 14.8 |
| 4/17/2015 | 3:06:35 | 54.13 | 50.53 | 223 | 0.29 | 0.42 | 12.2 |
| 4/17/2015 | 3:06:36 | 54.46 | 50.86 | 247 | 0.29 | 0.42 | 13.5 |
| 4/17/2015 | 3:06:37 | 54.79 | 51.19 | 276 | 0.29 | 0.42 | 15.1 |
| 4/17/2015 | 3:06:39 | 55.12 | 51.52 | 288 | 0.29 | 0.42 | 15.8 |
| 4/17/2015 | 3:06:41 | 55.45 | 51.85 | 177 | 0.29 | 0.42 | 9.7 |
| 4/17/2015 | 3:06:50 | 55.77 | 52.17 | 9 | 0.29 | 0.42 | 0.5 |
| 4/17/2015 | 3:06:51 | 56.10 | 52.50 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 | 3:06:54 | 56.43 | 52.83 | 119 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 3:07:00 | 56.76 | 53.16 | 52 | 0.29 | 0.42 | 2.8 |
| 4/17/2015 | 3:07:03 | 57.09 | 53.49 | 155 | 0.29 | 0.42 | 8.5 |
| 4/17/2015 | 3:07:06 | 57.41 | 53.81 | 108 | 0.29 | 0.42 | 5.9 |
| 4/17/2015 | 3:07:09 | 57.74 | 54.14 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 3:07:14 | 58.07 | 54.47 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 | 3:07:19 | 58.40 | 54.80 | 61 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 | 3:07:26 | 58.73 | 55.13 | 49 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 3:07:32 | 59.00 | 55.40 | 58 | 0.29 | 0.42 | 3.2 |

## B13 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:01:45

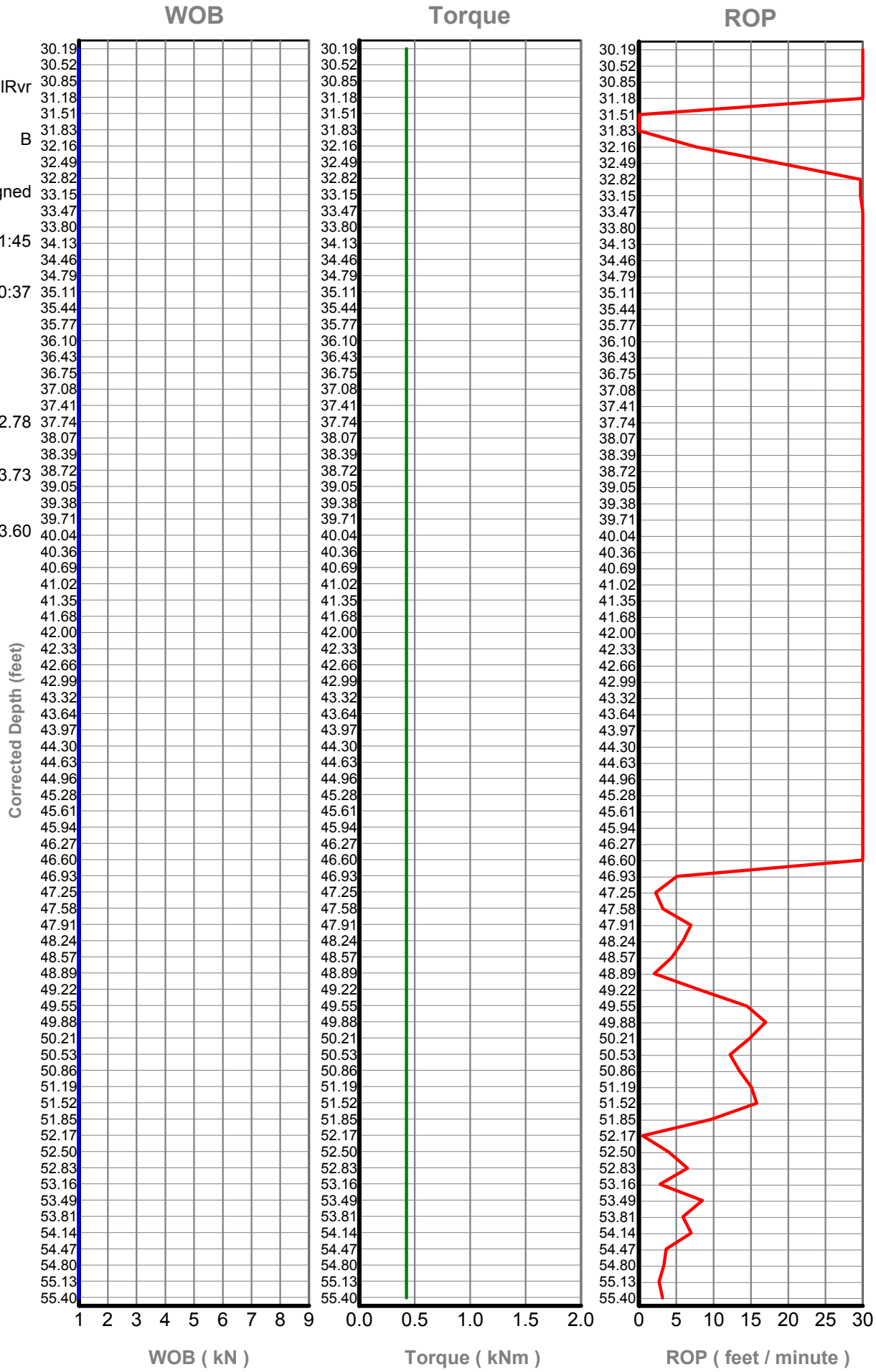
**End Date:**
4/17/2015 3:10:37

**Operator Note:**
'3.6 4 b Auto Complete'

**Northing:**
371,032.78

**Easting:**
259,563.73

**Tide (feet):**
3.60



## Hole: B14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:05:24 | 33.79 | 30.29 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:24 | 34.12 | 30.62 | 580 | 2.15 | 0.15 | 31.7 |
| 4/17/2015 3:05:25 | 34.45 | 30.95 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:25 | 34.78 | 31.28 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:26 | 35.11 | 31.61 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:27 | 35.43 | 31.93 | 588 | 2.14 | 0.15 | 32.1 |
| 4/17/2015 3:05:27 | 35.76 | 32.26 | 581 | 2.14 | 0.15 | 31.8 |
| 4/17/2015 3:05:28 | 36.09 | 32.59 | 581 | 2.14 | 0.15 | 31.8 |
| 4/17/2015 3:05:28 | 36.42 | 32.92 | 581 | 2.14 | 0.15 | 31.8 |
| 4/17/2015 3:05:29 | 36.75 | 33.25 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:30 | 37.07 | 33.57 | 584 | 2.14 | 0.15 | 31.9 |
| 4/17/2015 3:05:31 | 37.40 | 33.90 | 580 | 2.15 | 0.15 | 31.7 |
| 4/17/2015 3:05:31 | 37.73 | 34.23 | 587 | 2.15 | 0.15 | 32.1 |
| 4/17/2015 3:05:32 | 38.06 | 34.56 | 584 | 2.14 | 0.15 | 31.9 |
| 4/17/2015 3:05:32 | 38.39 | 34.89 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:33 | 38.71 | 35.21 | 587 | 2.15 | 0.16 | 32.1 |
| 4/17/2015 3:05:34 | 39.04 | 35.54 | 584 | 2.14 | 0.15 | 31.9 |
| 4/17/2015 3:05:34 | 39.37 | 35.87 | 572 | 2.11 | 0.15 | 31.3 |
| 4/17/2015 3:05:35 | 39.70 | 36.20 | 572 | 2.14 | 0.15 | 31.3 |
| 4/17/2015 3:05:35 | 40.03 | 36.53 | 577 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 3:05:36 | 40.35 | 36.85 | 581 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 3:05:37 | 40.68 | 37.18 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 3:05:37 | 41.01 | 37.51 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 3:05:38 | 41.34 | 37.84 | 591 | 2.14 | 0.15 | 32.3 |
| 4/17/2015 3:05:38 | 41.67 | 38.17 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:39 | 41.99 | 38.49 | 580 | 2.15 | 0.15 | 31.7 |
| 4/17/2015 3:05:39 | 42.32 | 38.82 | 587 | 2.14 | 0.15 | 32.1 |
| 4/17/2015 3:05:41 | 42.65 | 39.15 | 581 | 2.15 | 0.14 | 31.8 |
| 4/17/2015 3:05:41 | 42.98 | 39.48 | 584 | 2.15 | 0.14 | 31.9 |
| 4/17/2015 3:05:42 | 43.31 | 39.81 | 584 | 2.15 | 0.15 | 31.9 |
| 4/17/2015 3:05:42 | 43.64 | 40.14 | 584 | 2.16 | 0.15 | 31.9 |
| 4/17/2015 3:05:43 | 43.96 | 40.46 | 584 | 2.14 | 0.15 | 31.9 |
| 4/17/2015 3:05:43 | 44.29 | 40.79 | 580 | 2.14 | 0.14 | 31.7 |
| 4/17/2015 3:05:44 | 44.62 | 41.12 | 584 | 2.15 | 0.14 | 31.9 |
| 4/17/2015 3:05:45 | 44.95 | 41.45 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 3:05:45 | 45.28 | 41.78 | 581 | 2.15 | 0.14 | 31.8 |
| 4/17/2015 3:05:46 | 45.60 | 42.10 | 585 | 2.16 | 0.14 | 32.0 |
| 4/17/2015 3:05:46 | 45.93 | 42.43 | 566 | 2.15 | 0.14 | 31.0 |
| 4/17/2015 3:05:47 | 46.26 | 42.76 | 575 | 2.14 | 0.14 | 31.4 |
| 4/17/2015 3:05:48 | 46.59 | 43.09 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 3:05:48 | 46.92 | 43.42 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 3:05:49 | 47.24 | 43.74 | 578 | 2.15 | 0.14 | 31.6 |
| 4/17/2015 3:05:49 | 47.57 | 44.07 | 590 | 2.15 | 0.14 | 32.2 |
| 4/17/2015 3:05:50 | 47.90 | 44.40 | 588 | 2.14 | 0.14 | 32.1 |
| 4/17/2015 3:05:51 | 48.23 | 44.73 | 585 | 2.15 | 0.14 | 32.0 |
| 4/17/2015 3:05:52 | 48.56 | 45.06 | 575 | 2.23 | 0.15 | 31.5 |
| 4/17/2015 3:06:47 | 48.88 | 45.38 | 51 | 2.20 | 1.15 | 2.8 |
| 4/17/2015 3:06:47 | 49.21 | 45.71 | 131 | 2.23 | 1.17 | 7.2 |
| 4/17/2015 3:06:48 | 49.54 | 46.04 | 285 | 2.21 | 1.06 | 15.6 |
| 4/17/2015 3:06:49 | 49.87 | 46.37 | 388 | 2.21 | 1.11 | 21.2 |
| 4/17/2015 3:06:50 | 50.20 | 46.70 | 477 | 2.24 | 1.20 | 26.1 |
| 4/17/2015 3:06:50 | 50.53 | 47.03 | 480 | 2.24 | 1.34 | 26.3 |
| 4/17/2015 3:06:51 | 50.85 | 47.35 | 436 | 2.21 | 1.22 | 23.9 |
| 4/17/2015 3:06:52 | 51.18 | 47.68 | 391 | 2.25 | 1.30 | 21.4 |
| 4/17/2015 3:07:00 | 51.51 | 48.01 | 46 | 2.23 | 1.19 | 2.5 |
| 4/17/2015 3:07:01 | 51.84 | 48.34 | 191 | 2.19 | 1.21 | 10.5 |
| 4/17/2015 3:07:02 | 52.17 | 48.67 | 280 | 2.20 | 1.13 | 15.3 |
| 4/17/2015 3:07:03 | 52.49 | 48.99 | 399 | 2.22 | 1.15 | 21.8 |
| 4/17/2015 3:07:05 | 52.82 | 49.32 | 343 | 2.27 | 1.27 | 18.8 |
| 4/17/2015 3:07:08 | 53.15 | 49.65 | 118 | 2.30 | 1.43 | 6.5 |
| 4/17/2015 3:07:16 | 53.48 | 49.98 | 120 | 2.31 | 1.36 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:07:20 | 53.81 | 50.31 | 77 | 2.30 | 1.30 | 4.2 |
| 4/17/2015 | 3:07:26 | 54.13 | 50.63 | 56 | 2.29 | 1.25 | 3.1 |
| 4/17/2015 | 3:07:37 | 54.46 | 50.96 | 29 | 2.38 | 1.39 | 1.6 |
| 4/17/2015 | 3:07:41 | 54.79 | 51.29 | 97 | 2.36 | 1.28 | 5.3 |
| 4/17/2015 | 3:07:44 | 55.12 | 51.62 | 124 | 2.34 | 1.16 | 6.8 |
| 4/17/2015 | 3:07:45 | 55.45 | 51.95 | 157 | 2.29 | 1.13 | 8.6 |
| 4/17/2015 | 3:07:46 | 55.77 | 52.27 | 261 | 2.33 | 1.17 | 14.3 |
| 4/17/2015 | 3:07:53 | 55.94 | 52.44 | 13 | 2.31 | 1.23 | 0.7 |

## B14 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:03:23

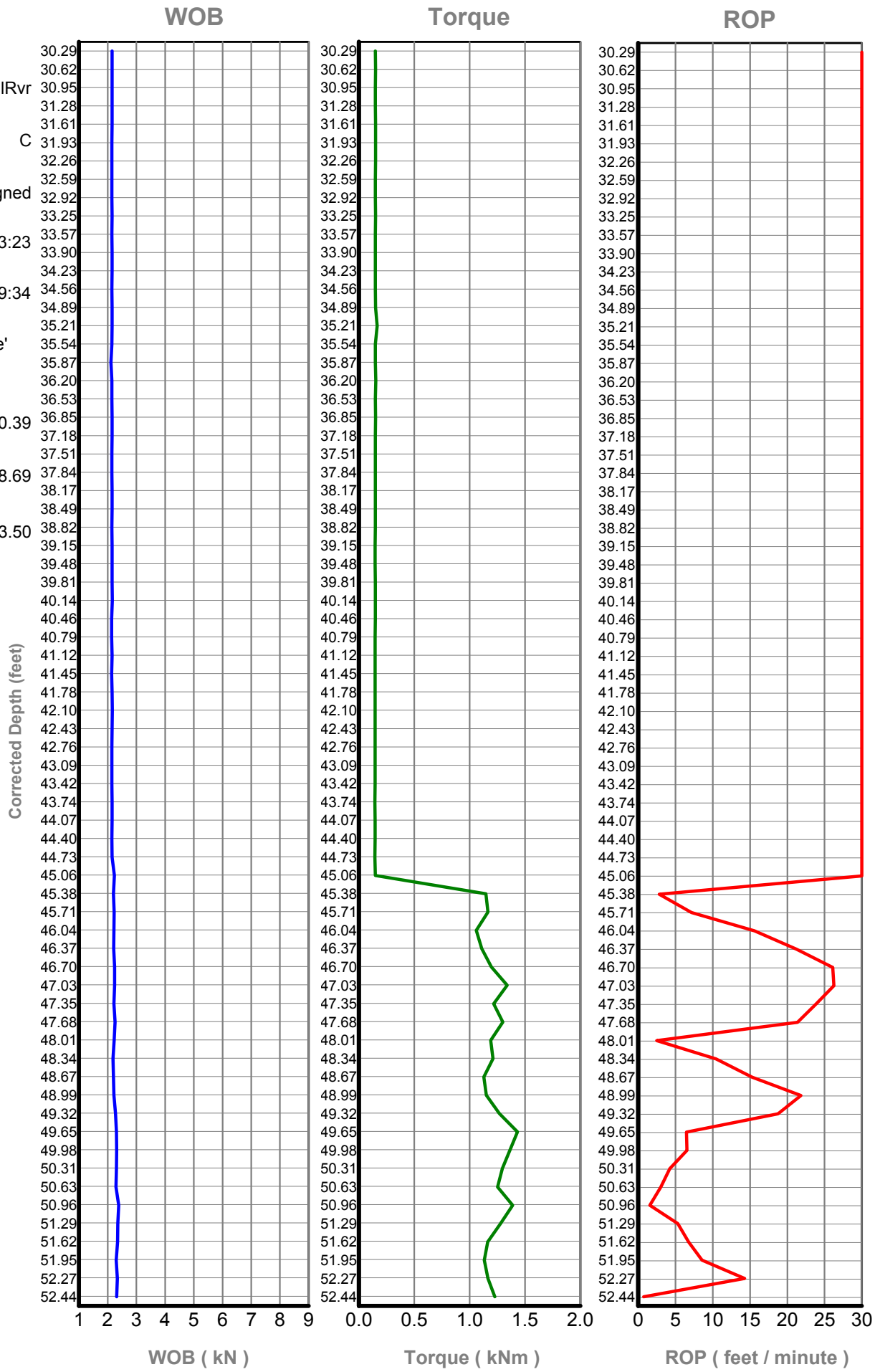
**End Date:**
4/17/2015 3:09:34

**Operator Note:**
'3.5 4.0 c Auto Complete'

**Northing:**
371,030.39

**Easting:**
259,638.69

**Tide (feet):**
3.50



## Hole: B15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 20:31:45 | 32.81 | 30.11 | 1,104 | 0.59 | 0.37 | 60.4 |
| 4/16/2015 20:31:46 | 33.14 | 30.44 | 1,099 | 0.59 | 0.37 | 60.1 |
| 4/16/2015 20:31:46 | 33.46 | 30.76 | 1,099 | 0.59 | 0.37 | 60.1 |
| 4/16/2015 20:31:46 | 33.79 | 31.09 | 1,093 | 0.59 | 0.37 | 59.8 |
| 4/16/2015 20:31:47 | 34.12 | 31.42 | 1,093 | 0.59 | 0.37 | 59.8 |
| 4/16/2015 20:31:47 | 34.45 | 31.75 | 1,093 | 0.58 | 0.36 | 59.7 |
| 4/16/2015 20:31:47 | 34.78 | 32.08 | 1,096 | 0.58 | 0.36 | 59.9 |
| 4/16/2015 20:31:48 | 35.11 | 32.41 | 1,096 | 0.58 | 0.36 | 59.9 |
| 4/16/2015 20:31:48 | 35.43 | 32.73 | 1,098 | 0.59 | 0.36 | 60.1 |
| 4/16/2015 20:31:48 | 35.76 | 33.06 | 1,098 | 0.59 | 0.37 | 60.1 |
| 4/16/2015 20:31:49 | 36.09 | 33.39 | 1,098 | 0.59 | 0.37 | 60.1 |
| 4/16/2015 20:31:49 | 36.42 | 33.72 | 1,095 | 0.58 | 0.37 | 59.9 |
| 4/16/2015 20:31:49 | 36.75 | 34.05 | 1,095 | 0.58 | 0.37 | 59.9 |
| 4/16/2015 20:31:49 | 37.07 | 34.37 | 1,104 | 0.58 | 0.36 | 60.4 |
| 4/16/2015 20:31:50 | 37.40 | 34.70 | 1,104 | 0.58 | 0.36 | 60.4 |
| 4/16/2015 20:31:50 | 37.73 | 35.03 | 1,104 | 0.58 | 0.36 | 60.4 |
| 4/16/2015 20:31:52 | 38.06 | 35.36 | 723 | 0.56 | 0.37 | 39.5 |
| 4/16/2015 20:31:52 | 38.39 | 35.69 | 640 | 0.56 | 0.38 | 35.0 |
| 4/16/2015 20:31:54 | 38.71 | 36.01 | 309 | 0.56 | 0.38 | 16.9 |
| 4/16/2015 20:31:54 | 39.04 | 36.34 | 423 | 0.58 | 0.38 | 23.1 |
| 4/16/2015 20:31:55 | 39.37 | 36.67 | 397 | 0.58 | 0.39 | 21.7 |
| 4/16/2015 20:31:55 | 39.70 | 37.00 | 355 | 0.59 | 0.39 | 19.4 |
| 4/16/2015 20:31:56 | 40.03 | 37.33 | 476 | 0.59 | 0.39 | 26.0 |
| 4/16/2015 20:31:56 | 40.35 | 37.65 | 587 | 0.59 | 0.40 | 32.1 |
| 4/16/2015 20:31:57 | 40.68 | 37.98 | 586 | 0.59 | 0.39 | 32.1 |
| 4/16/2015 20:31:58 | 41.01 | 38.31 | 590 | 0.58 | 0.40 | 32.2 |
| 4/16/2015 20:31:58 | 41.34 | 38.64 | 583 | 0.58 | 0.39 | 31.9 |
| 4/16/2015 20:31:59 | 41.67 | 38.97 | 584 | 0.59 | 0.40 | 31.9 |
| 4/16/2015 20:31:59 | 41.99 | 39.29 | 581 | 0.58 | 0.40 | 31.8 |
| 4/16/2015 20:32:00 | 42.32 | 39.62 | 578 | 0.58 | 0.40 | 31.6 |
| 4/16/2015 20:32:01 | 42.65 | 39.95 | 582 | 0.58 | 0.40 | 31.8 |
| 4/16/2015 20:32:02 | 42.98 | 40.28 | 578 | 0.58 | 0.40 | 31.6 |
| 4/16/2015 20:32:02 | 43.31 | 40.61 | 583 | 0.58 | 0.38 | 31.9 |
| 4/16/2015 20:32:03 | 43.64 | 40.94 | 587 | 0.59 | 0.39 | 32.1 |
| 4/16/2015 20:32:03 | 43.96 | 41.26 | 587 | 0.59 | 0.40 | 32.1 |
| 4/16/2015 20:32:04 | 44.29 | 41.59 | 591 | 0.58 | 0.40 | 32.3 |
| 4/16/2015 20:32:05 | 44.62 | 41.92 | 588 | 0.58 | 0.39 | 32.1 |
| 4/16/2015 20:32:05 | 44.95 | 42.25 | 581 | 0.59 | 0.40 | 31.8 |
| 4/16/2015 20:32:06 | 45.28 | 42.58 | 577 | 0.58 | 0.39 | 31.6 |
| 4/16/2015 20:32:06 | 45.60 | 42.90 | 585 | 0.58 | 0.40 | 32.0 |
| 4/16/2015 20:32:07 | 45.93 | 43.23 | 585 | 0.58 | 0.39 | 32.0 |
| 4/16/2015 20:32:08 | 46.26 | 43.56 | 581 | 0.58 | 0.40 | 31.8 |
| 4/16/2015 20:32:08 | 46.59 | 43.89 | 591 | 0.58 | 0.39 | 32.3 |
| 4/16/2015 20:32:09 | 46.92 | 44.22 | 584 | 0.58 | 0.39 | 31.9 |
| 4/16/2015 20:32:09 | 47.24 | 44.54 | 566 | 0.58 | 0.39 | 30.9 |
| 4/16/2015 20:32:10 | 47.57 | 44.87 | 566 | 0.58 | 0.39 | 30.9 |
| 4/16/2015 20:32:11 | 47.90 | 45.20 | 575 | 0.59 | 0.43 | 31.5 |
| 4/16/2015 20:32:46 | 48.23 | 45.53 | 0 | 4.79 | 0.44 | 0.0 |
| 4/16/2015 20:32:47 | 48.56 | 45.86 | 99 | 5.20 | 0.51 | 5.4 |
| 4/16/2015 20:32:48 | 48.88 | 46.18 | 207 | 4.57 | 0.46 | 11.3 |
| 4/16/2015 20:32:49 | 49.21 | 46.51 | 312 | 4.47 | 0.46 | 17.1 |
| 4/16/2015 20:32:50 | 49.54 | 46.84 | 368 | 4.70 | 0.46 | 20.1 |
| 4/16/2015 20:32:50 | 49.87 | 47.17 | 368 | 4.14 | 0.45 | 20.1 |
| 4/16/2015 20:32:51 | 50.20 | 47.50 | 435 | 4.20 | 0.47 | 23.8 |
| 4/16/2015 20:32:52 | 50.53 | 47.83 | 486 | 4.30 | 0.45 | 26.6 |
| 4/16/2015 20:32:52 | 50.85 | 48.15 | 485 | 3.81 | 0.45 | 26.5 |
| 4/16/2015 20:32:54 | 51.18 | 48.48 | 514 | 4.36 | 0.49 | 28.1 |
| 4/16/2015 20:32:56 | 51.51 | 48.81 | 211 | 5.04 | 0.51 | 11.5 |
| 4/16/2015 20:32:58 | 51.84 | 49.14 | 124 | 5.16 | 0.51 | 6.8 |
| 4/16/2015 20:33:00 | 52.17 | 49.47 | 136 | 4.85 | 0.51 | 7.4 |
| 4/16/2015 20:33:02 | 52.49 | 49.79 | 190 | 4.44 | 0.50 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 20:33:05 | 52.82 | 50.12 | 122 | 4.57 | 0.53 | 6.7 |
| 4/16/2015 | 20:33:28 | 53.15 | 50.45 | 37 | 5.00 | 0.56 | 2.0 |
| 4/16/2015 | 20:33:31 | 53.48 | 50.78 | 67 | 4.14 | 0.57 | 3.7 |
| 4/16/2015 | 20:33:37 | 53.81 | 51.11 | 58 | 3.92 | 0.57 | 3.2 |
| 4/16/2015 | 20:33:43 | 54.13 | 51.43 | 66 | 4.38 | 0.56 | 3.6 |
| 4/16/2015 | 20:33:47 | 54.46 | 51.76 | 92 | 4.44 | 0.54 | 5.0 |
| 4/16/2015 | 20:33:52 | 54.79 | 52.09 | 53 | 4.57 | 0.57 | 2.9 |
| 4/16/2015 | 20:36:30 | 55.12 | 52.42 | 17 | 5.02 | 0.56 | 0.9 |
| 4/16/2015 | 20:36:36 | 55.45 | 52.75 | 46 | 4.19 | 0.58 | 2.5 |
| 4/16/2015 | 20:36:46 | 55.77 | 53.07 | 37 | 4.72 | 0.57 | 2.0 |
| 4/16/2015 | 20:36:50 | 56.10 | 53.40 | 106 | 5.08 | 0.51 | 5.8 |
| 4/16/2015 | 20:36:52 | 56.43 | 53.73 | 142 | 4.30 | 0.51 | 7.8 |
| 4/16/2015 | 20:36:54 | 56.76 | 54.06 | 211 | 3.27 | 0.45 | 11.5 |
| 4/16/2015 | 20:36:55 | 57.09 | 54.39 | 249 | 3.27 | 0.45 | 13.6 |
| 4/16/2015 | 20:36:56 | 57.41 | 54.71 | 328 | 3.31 | 0.49 | 17.9 |
| 4/16/2015 | 20:36:57 | 57.74 | 55.04 | 370 | 3.36 | 0.48 | 20.2 |
| 4/16/2015 | 20:36:59 | 58.07 | 55.37 | 243 | 3.71 | 0.55 | 13.3 |
| 4/16/2015 | 20:37:01 | 58.27 | 55.57 | 98 | 3.79 | 0.56 | 5.4 |

## B15 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 20:29:40

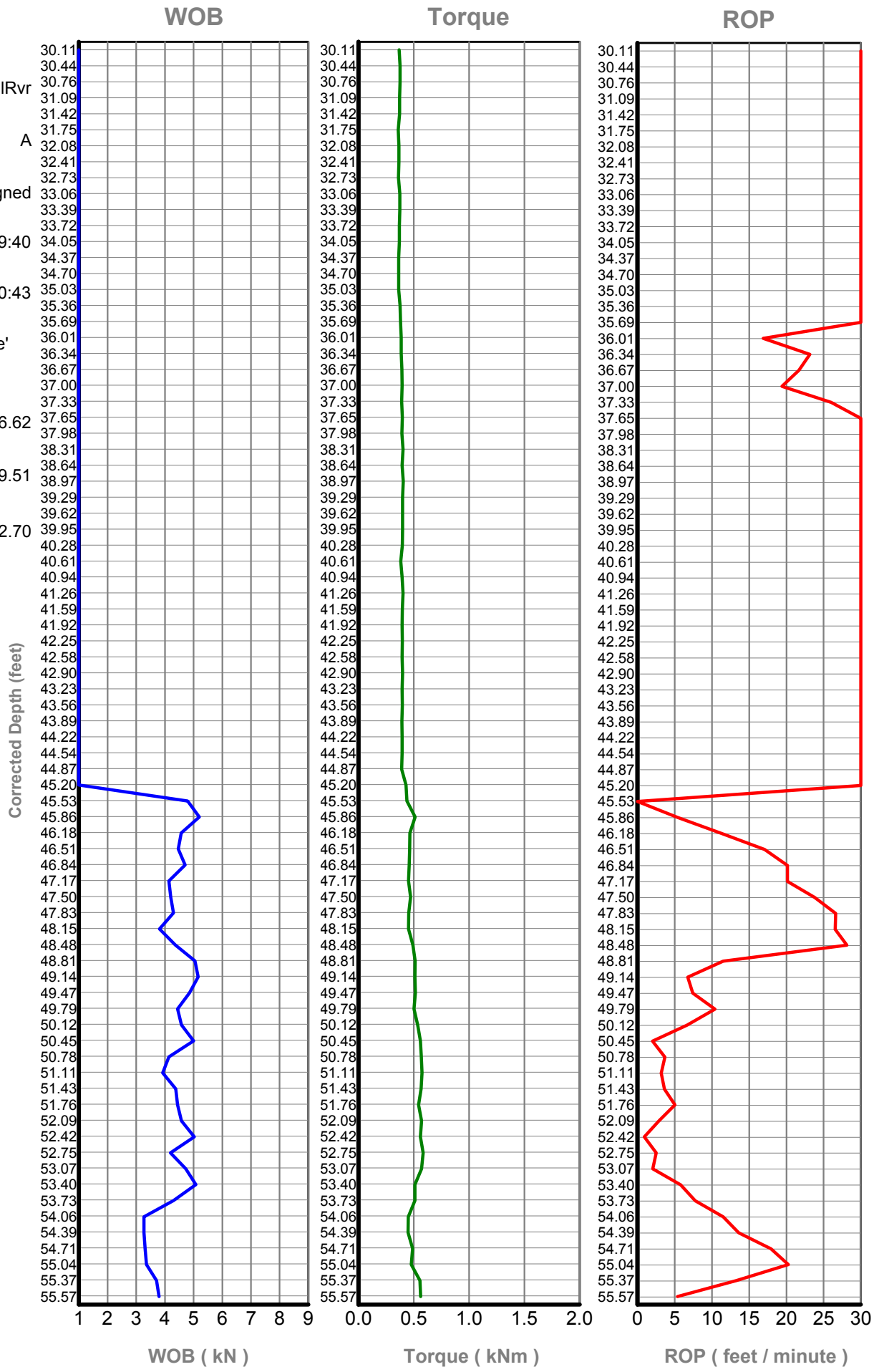
**End Date:**
4/16/2015 20:40:43

**Operator Note:**
'2.7 2.4 a Auto Complete'

**Northing:**
371,026.62

**Easting:**
259,719.51

**Tide (feet):**
2.70



## Hole: B16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 20:30:48 | 32.81 | 30.11 | 767 | 0.29 | 0.42 | 42.0 |
| 4/16/2015 20:30:48 | 33.14 | 30.44 | 767 | 0.29 | 0.42 | 42.0 |
| 4/16/2015 20:30:48 | 33.46 | 30.76 | 913 | 0.29 | 0.42 | 49.9 |
| 4/16/2015 20:30:49 | 33.79 | 31.09 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 20:30:49 | 34.12 | 31.42 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 20:30:50 | 34.45 | 31.75 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 20:30:50 | 34.78 | 32.08 | 921 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 20:30:50 | 35.11 | 32.41 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 20:30:51 | 35.43 | 32.73 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 20:30:51 | 35.76 | 33.06 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 20:30:51 | 36.09 | 33.39 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 20:30:52 | 36.42 | 33.72 | 897 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 20:30:52 | 36.75 | 34.05 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 20:30:53 | 37.07 | 34.37 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 20:30:53 | 37.40 | 34.70 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 20:30:53 | 37.73 | 35.03 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 20:30:54 | 38.06 | 35.36 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:30:54 | 38.39 | 35.69 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:30:54 | 38.71 | 36.01 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 20:30:55 | 39.04 | 36.34 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 20:30:55 | 39.37 | 36.67 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:30:56 | 39.70 | 37.00 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:30:56 | 40.03 | 37.33 | 927 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 20:30:56 | 40.35 | 37.65 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 20:30:57 | 40.68 | 37.98 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 20:30:58 | 41.01 | 38.31 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 20:30:58 | 41.34 | 38.64 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 20:30:58 | 41.67 | 38.97 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 20:30:59 | 41.99 | 39.29 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 20:30:59 | 42.32 | 39.62 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 20:30:59 | 42.65 | 39.95 | 917 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 20:31:00 | 42.98 | 40.28 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 20:31:00 | 43.31 | 40.61 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:31:01 | 43.64 | 40.94 | 914 | 0.29 | 0.42 | 50.0 |
| 4/16/2015 20:31:01 | 43.96 | 41.26 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 20:31:01 | 44.29 | 41.59 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 20:31:02 | 44.62 | 41.92 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 20:31:02 | 44.95 | 42.25 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 20:31:02 | 45.28 | 42.58 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 20:31:03 | 45.60 | 42.90 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 20:31:03 | 45.93 | 43.23 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 20:31:03 | 46.26 | 43.56 | 945 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 20:31:04 | 46.59 | 43.89 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 20:31:04 | 46.92 | 44.22 | 948 | 0.29 | 0.42 | 51.9 |
| 4/16/2015 20:31:05 | 47.24 | 44.54 | 948 | 0.29 | 0.42 | 51.9 |
| 4/16/2015 20:31:05 | 47.57 | 44.87 | 948 | 0.29 | 0.42 | 51.8 |
| 4/16/2015 20:31:05 | 47.90 | 45.20 | 948 | 0.29 | 0.42 | 51.8 |
| 4/16/2015 20:32:39 | 48.23 | 45.53 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 20:32:43 | 48.56 | 45.86 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 20:32:46 | 48.88 | 46.18 | 140 | 0.29 | 0.42 | 7.6 |
| 4/16/2015 20:32:57 | 49.21 | 46.51 | 3 | 0.29 | 0.42 | 0.2 |
| 4/16/2015 20:33:03 | 49.54 | 46.84 | 116 | 0.29 | 0.42 | 6.4 |
| 4/16/2015 20:33:04 | 49.87 | 47.17 | 238 | 0.29 | 0.42 | 13.0 |
| 4/16/2015 20:33:05 | 50.20 | 47.50 | 255 | 0.29 | 0.42 | 14.0 |
| 4/16/2015 20:33:06 | 50.53 | 47.83 | 303 | 0.29 | 0.42 | 16.6 |
| 4/16/2015 20:33:08 | 50.85 | 48.15 | 358 | 0.29 | 0.42 | 19.6 |
| 4/16/2015 20:33:08 | 51.18 | 48.48 | 369 | 0.29 | 0.42 | 20.2 |
| 4/16/2015 20:33:09 | 51.51 | 48.81 | 410 | 0.29 | 0.42 | 22.4 |
| 4/16/2015 20:33:10 | 51.84 | 49.14 | 394 | 0.29 | 0.42 | 21.5 |
| 4/16/2015 20:33:12 | 52.17 | 49.47 | 233 | 0.29 | 0.42 | 12.7 |
| 4/16/2015 20:33:15 | 52.49 | 49.79 | 114 | 0.29 | 0.42 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 20:33:18 | 52.82 | 50.12 | 140 | 0.29 | 0.42 | 7.6 |
| 4/16/2015 | 20:33:21 | 53.15 | 50.45 | 122 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 | 20:33:32 | 53.48 | 50.78 | 26 | 0.29 | 0.42 | 1.4 |
| 4/16/2015 | 20:33:39 | 53.81 | 51.11 | 49 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 | 20:33:48 | 54.13 | 51.43 | 44 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 20:33:55 | 54.46 | 51.76 | 47 | 0.29 | 0.42 | 2.5 |
| 4/16/2015 | 20:34:02 | 54.79 | 52.09 | 50 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 | 20:34:09 | 55.05 | 52.35 | 38 | 0.29 | 0.42 | 2.1 |

## B16 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/16/2015 20:27:24

**End Date:**
4/16/2015 20:37:14

**Operator Note:**
'2.7 2.4 b Auto Complete'

**Northing:**
371,019.93

**Easting:**
259,795.07

**Tide (feet):**
2.70



## Hole: B17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 20:35:23 | 33.14 | 30.24 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:24 | 33.46 | 30.56 | 720 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 20:35:24 | 33.79 | 30.89 | 720 | 2.28 | 0.06 | 39.4 |
| 4/16/2015 20:35:25 | 34.12 | 31.22 | 719 | 2.28 | 0.14 | 39.3 |
| 4/16/2015 20:35:25 | 34.45 | 31.55 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:26 | 34.78 | 31.88 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 20:35:26 | 35.11 | 32.21 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:27 | 35.43 | 32.53 | 720 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 20:35:27 | 35.76 | 32.86 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:28 | 36.09 | 33.19 | 720 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 20:35:28 | 36.42 | 33.52 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:29 | 36.75 | 33.85 | 712 | 2.29 | 0.14 | 39.0 |
| 4/16/2015 20:35:29 | 37.07 | 34.17 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:30 | 37.40 | 34.50 | 717 | 2.27 | 0.14 | 39.2 |
| 4/16/2015 20:35:30 | 37.73 | 34.83 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:31 | 38.06 | 35.16 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:31 | 38.39 | 35.49 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:31 | 38.71 | 35.81 | 727 | 2.28 | 0.14 | 39.8 |
| 4/16/2015 20:35:32 | 39.04 | 36.14 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:33 | 39.37 | 36.47 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:33 | 39.70 | 36.80 | 715 | 2.29 | 0.14 | 39.1 |
| 4/16/2015 20:35:34 | 40.03 | 37.13 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:34 | 40.35 | 37.45 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:35 | 40.68 | 37.78 | 720 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 20:35:35 | 41.01 | 38.11 | 720 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 20:35:36 | 41.34 | 38.44 | 727 | 2.28 | 0.14 | 39.8 |
| 4/16/2015 20:35:36 | 41.67 | 38.77 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:37 | 41.99 | 39.09 | 720 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 20:35:37 | 42.32 | 39.42 | 720 | 2.29 | 0.14 | 39.4 |
| 4/16/2015 20:35:38 | 42.65 | 39.75 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 20:35:38 | 42.98 | 40.08 | 717 | 2.28 | 0.14 | 39.2 |
| 4/16/2015 20:35:39 | 43.31 | 40.41 | 713 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 20:35:39 | 43.64 | 40.74 | 713 | 2.29 | 0.14 | 39.0 |
| 4/16/2015 20:35:40 | 43.96 | 41.06 | 717 | 2.27 | 0.14 | 39.2 |
| 4/16/2015 20:35:40 | 44.29 | 41.39 | 717 | 2.28 | 0.14 | 39.2 |
| 4/16/2015 20:35:41 | 44.62 | 41.72 | 717 | 2.29 | 0.14 | 39.2 |
| 4/16/2015 20:35:41 | 44.95 | 42.05 | 721 | 2.30 | 0.14 | 39.4 |
| 4/16/2015 20:35:42 | 45.28 | 42.38 | 720 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 20:35:42 | 45.60 | 42.70 | 720 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 20:35:43 | 45.93 | 43.03 | 717 | 2.28 | 0.14 | 39.2 |
| 4/16/2015 20:35:43 | 46.26 | 43.36 | 714 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 20:35:44 | 46.59 | 43.69 | 712 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 20:35:44 | 46.92 | 44.02 | 717 | 2.27 | 0.14 | 39.2 |
| 4/16/2015 20:35:45 | 47.24 | 44.34 | 717 | 2.28 | 0.14 | 39.2 |
| 4/16/2015 20:35:45 | 47.57 | 44.67 | 717 | 2.29 | 0.14 | 39.2 |
| 4/16/2015 20:36:09 | 47.90 | 45.00 | 0 | 2.31 | 1.09 | 0.0 |
| 4/16/2015 20:36:09 | 48.23 | 45.33 | 129 | 2.33 | 1.11 | 7.0 |
| 4/16/2015 20:36:10 | 48.56 | 45.66 | 246 | 2.33 | 1.17 | 13.5 |
| 4/16/2015 20:36:17 | 48.88 | 45.98 | 68 | 2.38 | 1.22 | 3.7 |
| 4/16/2015 20:36:17 | 49.21 | 46.31 | 148 | 2.37 | 1.37 | 8.1 |
| 4/16/2015 20:36:18 | 49.54 | 46.64 | 351 | 2.44 | 1.37 | 19.2 |
| 4/16/2015 20:36:36 | 49.87 | 46.97 | 70 | 2.38 | 1.13 | 3.8 |
| 4/16/2015 20:36:37 | 50.20 | 47.30 | 215 | 2.38 | 1.24 | 11.8 |
| 4/16/2015 20:36:38 | 50.53 | 47.63 | 292 | 2.38 | 1.13 | 16.0 |
| 4/16/2015 20:36:38 | 50.85 | 47.95 | 379 | 2.37 | 1.13 | 20.7 |
| 4/16/2015 20:36:39 | 51.18 | 48.28 | 451 | 2.42 | 1.11 | 24.7 |
| 4/16/2015 20:36:40 | 51.51 | 48.61 | 474 | 2.43 | 1.25 | 25.9 |
| 4/16/2015 20:36:41 | 51.84 | 48.94 | 503 | 2.44 | 1.23 | 27.5 |
| 4/16/2015 20:36:41 | 52.17 | 49.27 | 488 | 2.44 | 1.26 | 26.7 |
| 4/16/2015 20:36:42 | 52.49 | 49.59 | 468 | 2.43 | 1.22 | 25.6 |
| 4/16/2015 20:36:43 | 52.82 | 49.92 | 419 | 2.42 | 1.14 | 22.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 20:36:44 | 53.15 | 50.25 | 390 | 2.42 | 1.11 | 21.3 |
| 4/16/2015 | 20:36:45 | 53.48 | 50.58 | 407 | 2.40 | 1.04 | 22.3 |
| 4/16/2015 | 20:36:46 | 53.81 | 50.91 | 422 | 2.42 | 1.07 | 23.1 |
| 4/16/2015 | 20:36:48 | 54.13 | 51.23 | 275 | 2.48 | 1.20 | 15.0 |
| 4/16/2015 | 20:36:55 | 54.31 | 51.41 | 14 | 2.56 | 1.43 | 0.8 |

## B17 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 20:33:29

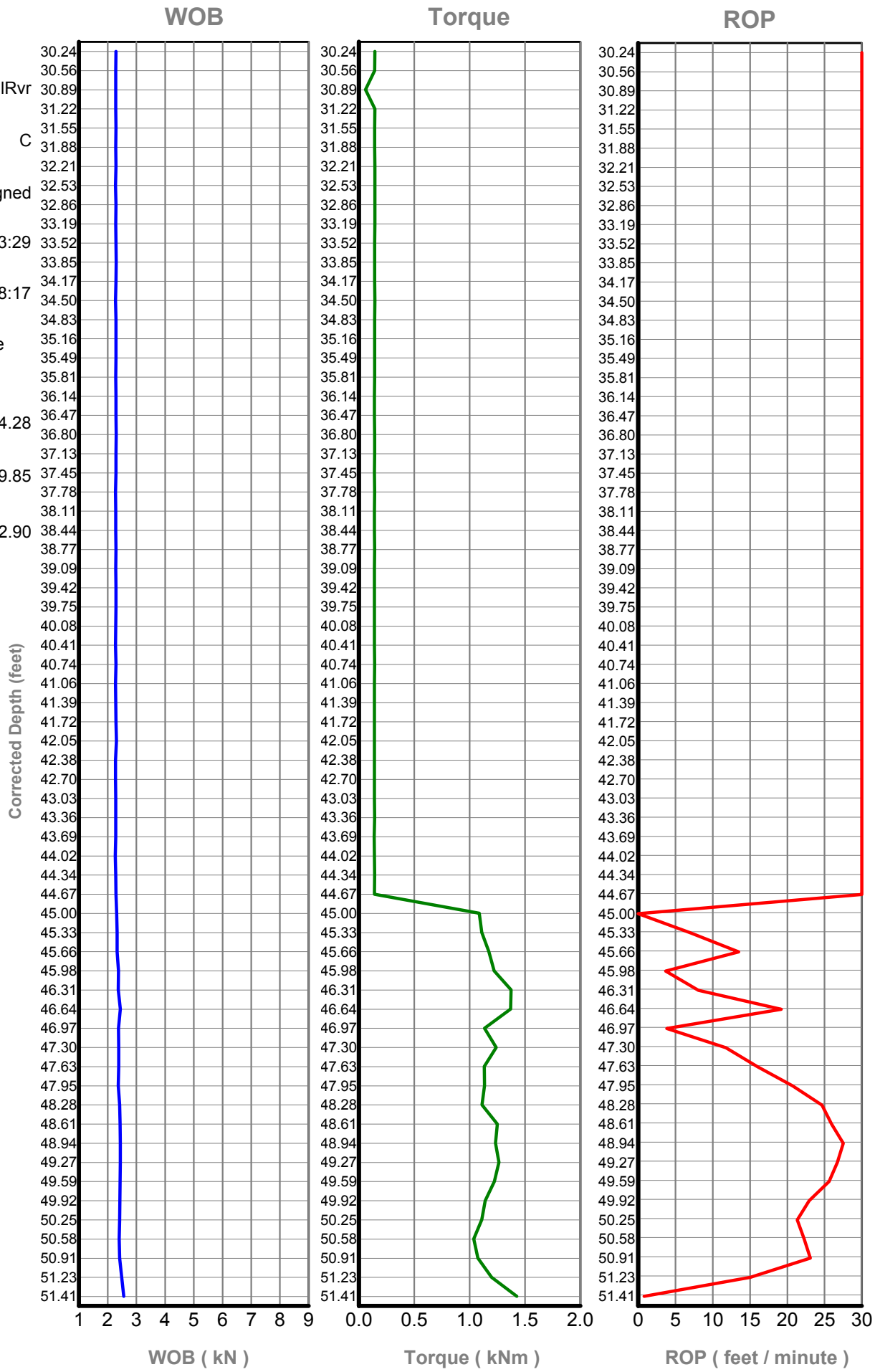
**End Date:**
4/16/2015 20:38:17

**Operator Note:**
'2.9 0.9 c Auto Complete 2.4 C'

**Northing:**
371,014.28

**Easting:**
259,869.85

**Tide (feet):**
2.90



## Hole: B18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 12:08:26 | 35.76 | 30.06 | 1,030 | 0.49 | 0.34 | 56.3 |
| 4/15/2015 12:08:26 | 36.09 | 30.39 | 1,030 | 0.49 | 0.34 | 56.3 |
| 4/15/2015 12:08:26 | 36.42 | 30.72 | 1,030 | 0.49 | 0.34 | 56.3 |
| 4/15/2015 12:08:27 | 36.75 | 31.05 | 1,045 | 0.48 | 0.33 | 57.1 |
| 4/15/2015 12:08:27 | 37.07 | 31.37 | 1,045 | 0.48 | 0.33 | 57.1 |
| 4/15/2015 12:08:27 | 37.40 | 31.70 | 1,029 | 0.48 | 0.33 | 56.3 |
| 4/15/2015 12:08:28 | 37.73 | 32.03 | 1,038 | 0.49 | 0.33 | 56.8 |
| 4/15/2015 12:08:28 | 38.06 | 32.36 | 1,038 | 0.49 | 0.33 | 56.8 |
| 4/15/2015 12:08:28 | 38.39 | 32.69 | 1,035 | 0.48 | 0.34 | 56.6 |
| 4/15/2015 12:08:29 | 38.71 | 33.01 | 1,041 | 0.50 | 0.33 | 56.9 |
| 4/15/2015 12:08:29 | 39.04 | 33.34 | 1,041 | 0.50 | 0.33 | 56.9 |
| 4/15/2015 12:08:29 | 39.37 | 33.67 | 1,041 | 0.48 | 0.33 | 56.9 |
| 4/15/2015 12:08:30 | 39.70 | 34.00 | 1,041 | 0.48 | 0.34 | 56.9 |
| 4/15/2015 12:08:30 | 40.03 | 34.33 | 1,041 | 0.48 | 0.34 | 56.9 |
| 4/15/2015 12:08:30 | 40.35 | 34.65 | 1,031 | 0.48 | 0.34 | 56.4 |
| 4/15/2015 12:08:31 | 40.68 | 34.98 | 1,038 | 0.50 | 0.34 | 56.8 |
| 4/15/2015 12:08:32 | 41.01 | 35.31 | 1,038 | 0.50 | 0.34 | 56.8 |
| 4/15/2015 12:08:32 | 41.34 | 35.64 | 1,029 | 0.47 | 0.34 | 56.3 |
| 4/15/2015 12:08:32 | 41.67 | 35.97 | 1,026 | 0.47 | 0.34 | 56.1 |
| 4/15/2015 12:08:33 | 41.99 | 36.29 | 1,026 | 0.47 | 0.34 | 56.1 |
| 4/15/2015 12:08:40 | 42.32 | 36.62 | 91 | 0.48 | 0.36 | 5.0 |
| 4/15/2015 12:08:41 | 42.65 | 36.95 | 217 | 0.49 | 0.37 | 11.9 |
| 4/15/2015 12:08:42 | 42.98 | 37.28 | 344 | 0.49 | 0.34 | 18.8 |
| 4/15/2015 12:08:42 | 43.31 | 37.61 | 486 | 0.50 | 0.34 | 26.6 |
| 4/15/2015 12:08:43 | 43.64 | 37.94 | 663 | 0.50 | 0.34 | 36.3 |
| 4/15/2015 12:08:43 | 43.96 | 38.26 | 663 | 0.50 | 0.34 | 36.3 |
| 4/15/2015 12:08:43 | 44.29 | 38.59 | 749 | 0.50 | 0.34 | 41.0 |
| 4/15/2015 12:08:44 | 44.62 | 38.92 | 809 | 0.47 | 0.35 | 44.2 |
| 4/15/2015 12:08:44 | 44.95 | 39.25 | 862 | 0.49 | 0.34 | 47.1 |
| 4/15/2015 12:08:45 | 45.28 | 39.58 | 862 | 0.49 | 0.34 | 47.1 |
| 4/15/2015 12:08:45 | 45.60 | 39.90 | 902 | 0.49 | 0.34 | 49.3 |
| 4/15/2015 12:08:45 | 45.93 | 40.23 | 892 | 0.49 | 0.34 | 48.8 |
| 4/15/2015 12:08:46 | 46.26 | 40.56 | 892 | 0.49 | 0.34 | 48.8 |
| 4/15/2015 12:08:46 | 46.59 | 40.89 | 892 | 0.49 | 0.34 | 48.8 |
| 4/15/2015 12:08:46 | 46.92 | 41.22 | 903 | 0.49 | 0.34 | 49.4 |
| 4/15/2015 12:08:47 | 47.24 | 41.54 | 903 | 0.49 | 0.34 | 49.4 |
| 4/15/2015 12:08:47 | 47.57 | 41.87 | 893 | 0.49 | 0.34 | 48.8 |
| 4/15/2015 12:08:48 | 47.90 | 42.20 | 893 | 0.49 | 0.34 | 48.8 |
| 4/15/2015 12:08:48 | 48.23 | 42.53 | 899 | 0.49 | 0.33 | 49.2 |
| 4/15/2015 12:08:48 | 48.56 | 42.86 | 902 | 0.50 | 0.34 | 49.3 |
| 4/15/2015 12:08:49 | 48.88 | 43.18 | 902 | 0.48 | 0.34 | 49.3 |
| 4/15/2015 12:08:49 | 49.21 | 43.51 | 902 | 0.48 | 0.34 | 49.3 |
| 4/15/2015 12:08:49 | 49.54 | 43.84 | 902 | 0.48 | 0.34 | 49.3 |
| 4/15/2015 12:08:50 | 49.87 | 44.17 | 901 | 0.48 | 0.33 | 49.3 |
| 4/15/2015 12:08:50 | 50.20 | 44.50 | 909 | 0.48 | 0.34 | 49.7 |
| 4/15/2015 12:08:51 | 50.53 | 44.83 | 909 | 0.48 | 0.34 | 49.7 |
| 4/15/2015 12:08:51 | 50.85 | 45.15 | 906 | 0.48 | 0.34 | 49.6 |
| 4/15/2015 12:08:52 | 51.18 | 45.48 | 911 | 0.48 | 0.33 | 49.8 |
| 4/15/2015 12:08:52 | 51.51 | 45.81 | 898 | 0.48 | 0.34 | 49.1 |
| 4/15/2015 12:08:53 | 51.84 | 46.14 | 898 | 0.48 | 0.38 | 49.1 |
| 4/15/2015 12:09:00 | 52.17 | 46.47 | 0 | 2.36 | 0.37 | 0.0 |
| 4/15/2015 12:09:06 | 52.49 | 46.79 | 11 | 2.47 | 0.36 | 0.6 |
| 4/15/2015 12:09:13 | 52.82 | 47.12 | 47 | 4.57 | 0.43 | 2.6 |
| 4/15/2015 12:09:16 | 53.15 | 47.45 | 88 | 5.73 | 0.13 | 4.8 |
| 4/15/2015 12:09:26 | 53.48 | 47.78 | 20 | 3.01 | 0.45 | 1.1 |
| 4/15/2015 12:09:31 | 53.81 | 48.11 | 27 | 3.07 | 0.41 | 1.5 |
| 4/15/2015 12:09:32 | 54.13 | 48.43 | 149 | 3.45 | 0.44 | 8.1 |
| 4/15/2015 12:09:33 | 54.46 | 48.76 | 293 | 3.96 | 0.46 | 16.0 |
| 4/15/2015 12:09:35 | 54.79 | 49.09 | 318 | 4.26 | 0.18 | 17.4 |
| 4/15/2015 12:09:36 | 55.12 | 49.42 | 212 | 3.82 | 0.47 | 11.6 |
| 4/15/2015 12:09:41 | 55.45 | 49.75 | 3 | 3.00 | 0.51 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 12:09:44 | 55.77 | 50.07 | 118 | 4.40 | 0.53 | 6.5 |
| 4/15/2015 | 12:10:35 | 56.10 | 50.40 | 58 | 4.88 | 0.50 | 3.2 |
| 4/15/2015 | 12:10:36 | 56.43 | 50.73 | 118 | 3.75 | 0.44 | 6.4 |
| 4/15/2015 | 12:10:42 | 56.76 | 51.06 | 21 | 3.86 | 0.42 | 1.1 |
| 4/15/2015 | 12:10:43 | 57.09 | 51.39 | 142 | 3.79 | 0.44 | 7.8 |
| 4/15/2015 | 12:10:49 | 57.41 | 51.71 | 61 | 4.78 | 0.45 | 3.3 |
| 4/15/2015 | 12:10:50 | 57.74 | 52.04 | 147 | 3.69 | 0.42 | 8.1 |
| 4/15/2015 | 12:10:52 | 58.07 | 52.37 | 237 | 3.80 | 0.43 | 12.9 |
| 4/15/2015 | 12:10:53 | 58.40 | 52.70 | 248 | 3.91 | 0.42 | 13.5 |
| 4/15/2015 | 12:10:54 | 58.73 | 53.03 | 266 | 3.91 | 0.42 | 14.5 |
| 4/15/2015 | 12:10:55 | 59.06 | 53.36 | 289 | 4.11 | 0.43 | 15.8 |
| 4/15/2015 | 12:10:57 | 59.38 | 53.68 | 293 | 4.17 | 0.42 | 16.0 |
| 4/15/2015 | 12:10:59 | 59.71 | 54.01 | 237 | 4.30 | 0.43 | 12.9 |
| 4/15/2015 | 12:11:01 | 60.04 | 54.34 | 192 | 4.25 | 0.42 | 10.5 |
| 4/15/2015 | 12:11:03 | 60.37 | 54.67 | 176 | 4.17 | 0.42 | 9.6 |
| 4/15/2015 | 12:11:05 | 60.70 | 55.00 | 145 | 4.24 | 0.43 | 7.9 |
| 4/15/2015 | 12:11:12 | 61.02 | 55.32 | 0 | 2.55 | 0.14 | 0.0 |

## B18 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 12:04:46

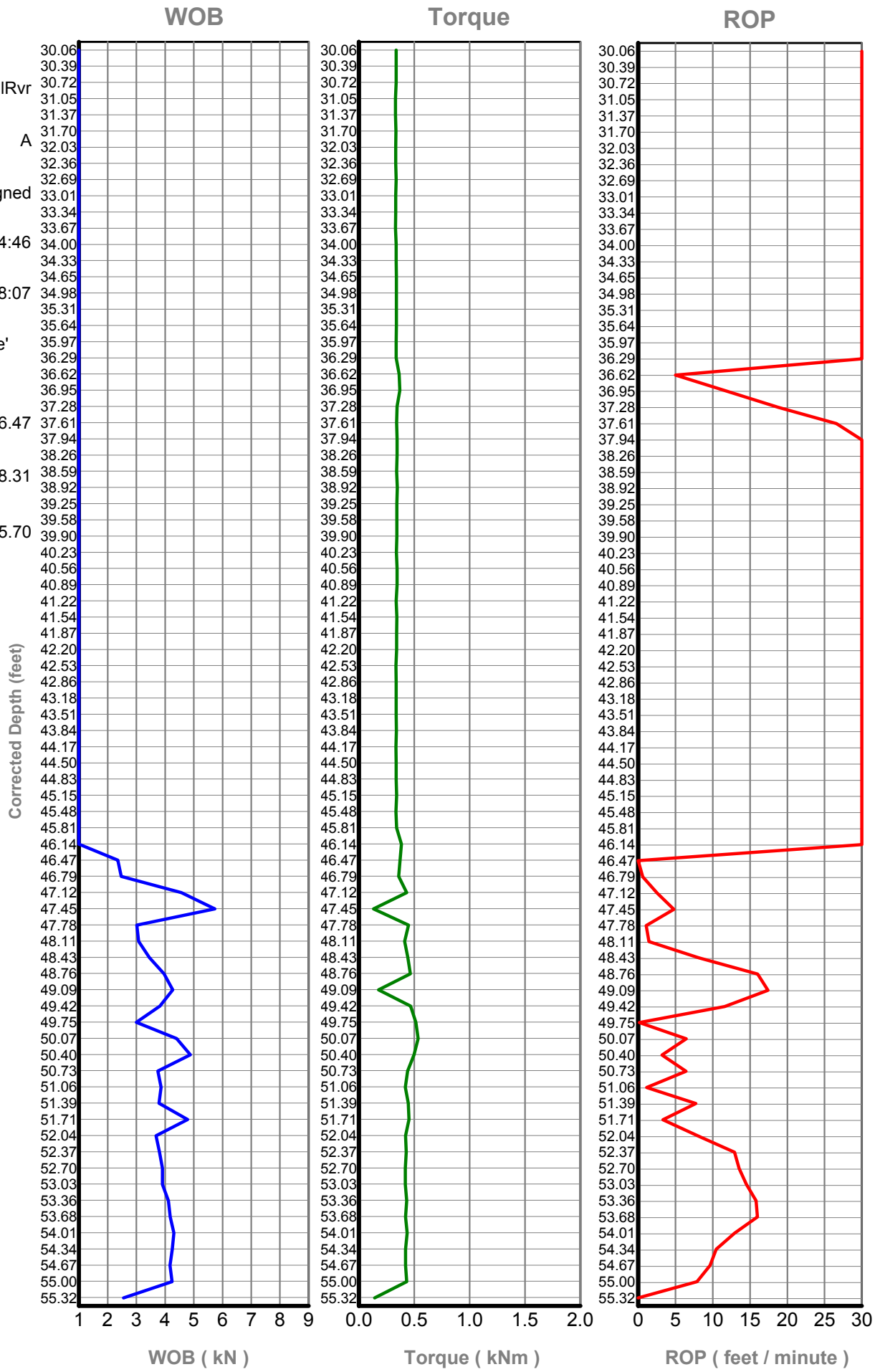
**End Date:**
4/15/2015 12:18:07

**Operator Note:**
'5.7 6.0 a Auto Complete'

**Northing:**
371,016.47

**Easting:**
259,948.31

**Tide (feet):**
5.70



## Hole: B19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 12:08:49 | 35.76 | 30.06 | 820 | 0.33 | 0.37 | 44.8 |
| 4/16/2015 12:08:49 | 36.09 | 30.39 | 828 | 0.31 | 0.37 | 45.3 |
| 4/16/2015 12:08:50 | 36.42 | 30.72 | 835 | 0.32 | 0.37 | 45.7 |
| 4/16/2015 12:08:50 | 36.75 | 31.05 | 835 | 0.32 | 0.37 | 45.7 |
| 4/16/2015 12:08:50 | 37.07 | 31.37 | 816 | 0.33 | 0.37 | 44.6 |
| 4/16/2015 12:08:51 | 37.40 | 31.70 | 828 | 0.33 | 0.37 | 45.3 |
| 4/16/2015 12:08:51 | 37.73 | 32.03 | 830 | 0.32 | 0.37 | 45.4 |
| 4/16/2015 12:08:52 | 38.06 | 32.36 | 830 | 0.31 | 0.37 | 45.4 |
| 4/16/2015 12:08:52 | 38.39 | 32.69 | 827 | 0.31 | 0.38 | 45.2 |
| 4/16/2015 12:08:53 | 38.71 | 33.01 | 827 | 0.31 | 0.38 | 45.2 |
| 4/16/2015 12:08:53 | 39.04 | 33.34 | 827 | 0.32 | 0.37 | 45.2 |
| 4/16/2015 12:08:53 | 39.37 | 33.67 | 830 | 0.31 | 0.37 | 45.4 |
| 4/16/2015 12:08:54 | 39.70 | 34.00 | 827 | 0.31 | 0.37 | 45.2 |
| 4/16/2015 12:08:54 | 40.03 | 34.33 | 821 | 0.31 | 0.38 | 44.9 |
| 4/16/2015 12:08:55 | 40.35 | 34.65 | 813 | 0.32 | 0.38 | 44.5 |
| 4/16/2015 12:08:56 | 40.68 | 34.98 | 806 | 0.32 | 0.37 | 44.1 |
| 4/16/2015 12:08:56 | 41.01 | 35.31 | 806 | 0.32 | 0.37 | 44.1 |
| 4/16/2015 12:08:56 | 41.34 | 35.64 | 807 | 0.37 | 0.37 | 44.1 |
| 4/16/2015 12:08:57 | 41.67 | 35.97 | 807 | 0.33 | 0.37 | 44.1 |
| 4/16/2015 12:08:57 | 41.99 | 36.29 | 810 | 0.33 | 0.37 | 44.3 |
| 4/16/2015 12:08:58 | 42.32 | 36.62 | 808 | 0.31 | 0.38 | 44.2 |
| 4/16/2015 12:08:58 | 42.65 | 36.95 | 831 | 0.31 | 0.37 | 45.5 |
| 4/16/2015 12:08:59 | 42.98 | 37.28 | 831 | 0.31 | 0.37 | 45.5 |
| 4/16/2015 12:08:59 | 43.31 | 37.61 | 817 | 0.31 | 0.37 | 44.7 |
| 4/16/2015 12:08:59 | 43.64 | 37.94 | 815 | 0.31 | 0.37 | 44.6 |
| 4/16/2015 12:09:00 | 43.96 | 38.26 | 832 | 0.31 | 0.37 | 45.5 |
| 4/16/2015 12:09:21 | 44.29 | 38.59 | 11 | 0.31 | 0.37 | 0.6 |
| 4/16/2015 12:09:22 | 44.62 | 38.92 | 167 | 0.29 | 0.38 | 9.1 |
| 4/16/2015 12:09:22 | 44.95 | 39.25 | 320 | 0.31 | 0.37 | 17.5 |
| 4/16/2015 12:09:23 | 45.28 | 39.58 | 320 | 0.31 | 0.37 | 17.5 |
| 4/16/2015 12:09:23 | 45.60 | 39.90 | 488 | 0.31 | 0.37 | 26.7 |
| 4/16/2015 12:09:23 | 45.93 | 40.23 | 641 | 0.31 | 0.37 | 35.1 |
| 4/16/2015 12:09:24 | 46.26 | 40.56 | 641 | 0.31 | 0.37 | 35.1 |
| 4/16/2015 12:09:24 | 46.59 | 40.89 | 797 | 0.31 | 0.37 | 43.6 |
| 4/16/2015 12:09:25 | 46.92 | 41.22 | 803 | 0.31 | 0.36 | 43.9 |
| 4/16/2015 12:09:25 | 47.24 | 41.54 | 803 | 0.31 | 0.36 | 43.9 |
| 4/16/2015 12:09:25 | 47.57 | 41.87 | 819 | 0.31 | 0.37 | 44.8 |
| 4/16/2015 12:09:26 | 47.90 | 42.20 | 822 | 0.31 | 0.37 | 45.0 |
| 4/16/2015 12:09:26 | 48.23 | 42.53 | 822 | 0.32 | 0.37 | 45.0 |
| 4/16/2015 12:09:27 | 48.56 | 42.86 | 828 | 0.31 | 0.37 | 45.3 |
| 4/16/2015 12:09:28 | 48.88 | 43.18 | 828 | 0.31 | 0.37 | 45.3 |
| 4/16/2015 12:09:28 | 49.21 | 43.51 | 828 | 0.31 | 0.37 | 45.3 |
| 4/16/2015 12:09:28 | 49.54 | 43.84 | 825 | 0.32 | 0.37 | 45.1 |
| 4/16/2015 12:09:29 | 49.87 | 44.17 | 823 | 0.31 | 0.37 | 45.0 |
| 4/16/2015 12:09:29 | 50.20 | 44.50 | 846 | 0.32 | 0.37 | 46.3 |
| 4/16/2015 12:09:30 | 50.53 | 44.83 | 831 | 0.31 | 0.38 | 45.4 |
| 4/16/2015 12:09:30 | 50.85 | 45.15 | 830 | 0.31 | 0.37 | 45.4 |
| 4/16/2015 12:09:31 | 51.18 | 45.48 | 830 | 0.31 | 0.37 | 45.4 |
| 4/16/2015 12:09:31 | 51.51 | 45.81 | 824 | 0.31 | 0.37 | 45.1 |
| 4/16/2015 12:09:31 | 51.84 | 46.14 | 821 | 0.32 | 0.37 | 44.9 |
| 4/16/2015 12:09:32 | 52.17 | 46.47 | 812 | 0.31 | 0.37 | 44.4 |
| 4/16/2015 12:09:32 | 52.49 | 46.79 | 814 | 0.31 | 0.38 | 44.5 |
| 4/16/2015 12:09:33 | 52.82 | 47.12 | 805 | 0.29 | 0.41 | 44.0 |
| 4/16/2015 12:10:06 | 53.15 | 47.45 | 19 | 3.37 | 0.44 | 1.0 |
| 4/16/2015 12:10:11 | 53.48 | 47.78 | 69 | 3.58 | 0.42 | 3.8 |
| 4/16/2015 12:10:12 | 53.81 | 48.11 | 196 | 3.13 | 0.41 | 10.7 |
| 4/16/2015 12:10:13 | 54.13 | 48.43 | 315 | 3.15 | 0.41 | 17.2 |
| 4/16/2015 12:10:16 | 54.46 | 48.76 | 134 | 2.86 | 0.40 | 7.3 |
| 4/16/2015 12:10:16 | 54.79 | 49.09 | 177 | 2.91 | 0.39 | 9.7 |
| 4/16/2015 12:10:17 | 55.12 | 49.42 | 286 | 2.26 | 0.38 | 15.6 |
| 4/16/2015 12:10:17 | 55.45 | 49.75 | 416 | 2.47 | 0.39 | 22.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 12:10:18 | 55.77 | 50.07 | 553 | 2.76 | 0.39 | 30.2 |
| 4/16/2015 | 12:10:19 | 56.10 | 50.40 | 565 | 2.49 | 0.40 | 30.9 |
| 4/16/2015 | 12:10:23 | 56.43 | 50.73 | 63 | 5.31 | 0.42 | 3.5 |
| 4/16/2015 | 12:10:24 | 56.76 | 51.06 | 165 | 2.89 | 0.41 | 9.0 |
| 4/16/2015 | 12:10:25 | 57.09 | 51.39 | 245 | 3.16 | 0.42 | 13.4 |
| 4/16/2015 | 12:10:26 | 57.41 | 51.71 | 300 | 3.25 | 0.40 | 16.4 |
| 4/16/2015 | 12:10:27 | 57.74 | 52.04 | 296 | 3.31 | 0.38 | 16.2 |
| 4/16/2015 | 12:10:28 | 58.07 | 52.37 | 365 | 3.56 | 0.41 | 20.0 |
| 4/16/2015 | 12:10:30 | 58.40 | 52.70 | 336 | 2.69 | 0.39 | 18.4 |
| 4/16/2015 | 12:10:30 | 58.73 | 53.03 | 404 | 2.78 | 0.40 | 22.1 |
| 4/16/2015 | 12:10:32 | 59.06 | 53.36 | 346 | 3.72 | 0.42 | 18.9 |
| 4/16/2015 | 12:10:33 | 59.38 | 53.68 | 281 | 3.12 | 0.43 | 15.4 |
| 4/16/2015 | 12:10:34 | 59.71 | 54.01 | 280 | 2.77 | 0.42 | 15.3 |
| 4/16/2015 | 12:10:37 | 60.04 | 54.34 | 131 | 3.06 | 0.43 | 7.2 |
| 4/16/2015 | 12:10:45 | 60.37 | 54.67 | 72 | 3.43 | 0.44 | 3.9 |
| 4/16/2015 | 12:11:03 | 60.70 | 55.00 | 66 | 2.67 | 0.42 | 3.6 |
| 4/16/2015 | 12:11:07 | 61.02 | 55.32 | 78 | 3.33 | 0.42 | 4.3 |
| 4/16/2015 | 12:11:38 | 61.13 | 55.43 | 3 | 3.02 | 0.42 | 0.2 |

## B19 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 12:06:05

**End Date:**
4/16/2015 12:13:13

**Operator Note:**
'5.7 6.1 b Auto Complete'

**Northing:**
371,012.04

**Easting:**
260,023.08

**Tide (feet):**
5.70



## Hole: B2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:31:05 | 33.14 | 30.04 | 1,144 | 0.58 | 0.36 | 62.6 |
| 4/17/2015 3:31:05 | 33.46 | 30.36 | 1,158 | 0.58 | 0.35 | 63.3 |
| 4/17/2015 3:31:05 | 33.79 | 30.69 | 1,151 | 0.58 | 0.35 | 62.9 |
| 4/17/2015 3:31:06 | 34.12 | 31.02 | 1,151 | 0.58 | 0.35 | 62.9 |
| 4/17/2015 3:31:06 | 34.45 | 31.35 | 1,156 | 0.58 | 0.36 | 63.2 |
| 4/17/2015 3:31:06 | 34.78 | 31.68 | 1,156 | 0.58 | 0.36 | 63.2 |
| 4/17/2015 3:31:06 | 35.11 | 32.01 | 1,150 | 0.58 | 0.35 | 62.9 |
| 4/17/2015 3:31:07 | 35.43 | 32.33 | 1,150 | 0.58 | 0.35 | 62.9 |
| 4/17/2015 3:31:07 | 35.76 | 32.66 | 1,124 | 0.58 | 0.35 | 61.5 |
| 4/17/2015 3:31:07 | 36.09 | 32.99 | 1,124 | 0.58 | 0.35 | 61.5 |
| 4/17/2015 3:31:08 | 36.42 | 33.32 | 1,124 | 0.58 | 0.35 | 61.5 |
| 4/17/2015 3:31:08 | 36.75 | 33.65 | 1,141 | 0.58 | 0.36 | 62.4 |
| 4/17/2015 3:31:08 | 37.07 | 33.97 | 1,141 | 0.58 | 0.36 | 62.4 |
| 4/17/2015 3:31:09 | 37.40 | 34.30 | 1,148 | 0.57 | 0.36 | 62.8 |
| 4/17/2015 3:31:09 | 37.73 | 34.63 | 1,127 | 0.58 | 0.35 | 61.6 |
| 4/17/2015 3:31:10 | 38.06 | 34.96 | 1,127 | 0.58 | 0.35 | 61.6 |
| 4/17/2015 3:31:10 | 38.39 | 35.29 | 1,133 | 0.58 | 0.36 | 61.9 |
| 4/17/2015 3:31:10 | 38.71 | 35.61 | 1,133 | 0.58 | 0.36 | 61.9 |
| 4/17/2015 3:31:10 | 39.04 | 35.94 | 1,133 | 0.58 | 0.35 | 61.9 |
| 4/17/2015 3:31:11 | 39.37 | 36.27 | 1,179 | 0.58 | 0.35 | 64.5 |
| 4/17/2015 3:31:11 | 39.70 | 36.60 | 1,179 | 0.58 | 0.35 | 64.5 |
| 4/17/2015 3:31:11 | 40.03 | 36.93 | 1,161 | 0.58 | 0.35 | 63.5 |
| 4/17/2015 3:31:12 | 40.35 | 37.25 | 1,161 | 0.58 | 0.35 | 63.5 |
| 4/17/2015 3:31:12 | 40.68 | 37.58 | 1,161 | 0.58 | 0.36 | 63.5 |
| 4/17/2015 3:31:12 | 41.01 | 37.91 | 1,161 | 0.58 | 0.36 | 63.5 |
| 4/17/2015 3:31:12 | 41.34 | 38.24 | 1,185 | 0.58 | 0.36 | 64.8 |
| 4/17/2015 3:31:13 | 41.67 | 38.57 | 1,182 | 0.58 | 0.35 | 64.6 |
| 4/17/2015 3:31:13 | 41.99 | 38.89 | 1,182 | 0.58 | 0.35 | 64.6 |
| 4/17/2015 3:31:13 | 42.32 | 39.22 | 1,165 | 0.58 | 0.35 | 63.7 |
| 4/17/2015 3:31:14 | 42.65 | 39.55 | 1,165 | 0.58 | 0.35 | 63.7 |
| 4/17/2015 3:31:14 | 42.98 | 39.88 | 1,149 | 0.58 | 0.36 | 62.9 |
| 4/17/2015 3:31:14 | 43.31 | 40.21 | 1,155 | 0.56 | 0.35 | 63.2 |
| 4/17/2015 3:31:15 | 43.64 | 40.54 | 1,155 | 0.56 | 0.35 | 63.2 |
| 4/17/2015 3:31:15 | 43.96 | 40.86 | 1,164 | 0.58 | 0.35 | 63.6 |
| 4/17/2015 3:31:15 | 44.29 | 41.19 | 1,164 | 0.58 | 0.35 | 63.6 |
| 4/17/2015 3:31:15 | 44.62 | 41.52 | 1,161 | 0.58 | 0.36 | 63.5 |
| 4/17/2015 3:31:16 | 44.95 | 41.85 | 1,151 | 0.58 | 0.36 | 62.9 |
| 4/17/2015 3:31:16 | 45.28 | 42.18 | 1,151 | 0.58 | 0.36 | 62.9 |
| 4/17/2015 3:31:16 | 45.60 | 42.50 | 1,170 | 0.58 | 0.35 | 64.0 |
| 4/17/2015 3:31:17 | 45.93 | 42.83 | 1,170 | 0.58 | 0.35 | 64.0 |
| 4/17/2015 3:31:17 | 46.26 | 43.16 | 1,172 | 0.57 | 0.35 | 64.1 |
| 4/17/2015 3:31:17 | 46.59 | 43.49 | 1,131 | 0.58 | 0.36 | 61.8 |
| 4/17/2015 3:31:18 | 46.92 | 43.82 | 1,131 | 0.58 | 0.36 | 61.8 |
| 4/17/2015 3:31:18 | 47.24 | 44.14 | 1,131 | 0.56 | 0.35 | 61.8 |
| 4/17/2015 3:31:18 | 47.57 | 44.47 | 1,131 | 0.56 | 0.35 | 61.8 |
| 4/17/2015 3:31:18 | 47.90 | 44.80 | 1,141 | 0.58 | 0.35 | 62.4 |
| 4/17/2015 3:31:19 | 48.23 | 45.13 | 1,155 | 0.58 | 0.35 | 63.2 |
| 4/17/2015 3:31:20 | 48.56 | 45.46 | 1,155 | 0.58 | 0.35 | 63.2 |
| 4/17/2015 3:31:19 | 48.88 | 45.78 | 1,130 | 0.57 | 0.35 | 61.8 |
| 4/17/2015 3:31:20 | 49.21 | 46.11 | 1,130 | 0.57 | 0.35 | 61.8 |
| 4/17/2015 3:31:20 | 49.54 | 46.44 | 1,130 | 0.58 | 0.36 | 61.8 |
| 4/17/2015 3:31:21 | 49.87 | 46.77 | 1,130 | 0.58 | 0.36 | 61.8 |
| 4/17/2015 3:31:36 | 50.20 | 47.10 | 0 | 3.92 | 0.47 | 0.0 |
| 4/17/2015 3:31:44 | 50.53 | 47.43 | 2 | 3.17 | 0.43 | 0.1 |
| 4/17/2015 3:31:44 | 50.85 | 47.75 | 56 | 5.04 | 0.43 | 3.1 |
| 4/17/2015 3:31:45 | 51.18 | 48.08 | 168 | 5.51 | 0.47 | 9.2 |
| 4/17/2015 3:31:46 | 51.51 | 48.41 | 361 | 5.18 | 0.51 | 19.8 |
| 4/17/2015 3:31:47 | 51.84 | 48.74 | 428 | 5.15 | 0.52 | 23.4 |
| 4/17/2015 3:31:49 | 52.17 | 49.07 | 239 | 5.15 | 0.50 | 13.1 |
| 4/17/2015 3:31:52 | 52.49 | 49.39 | 150 | 4.53 | 0.50 | 8.2 |
| 4/17/2015 3:31:56 | 52.82 | 49.72 | 45 | 4.31 | 0.45 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:31:57 | 53.15 | 50.05 | 178 | 4.78 | 0.49 | 9.7 |
| 4/17/2015 | 3:32:01 | 53.48 | 50.38 | 56 | 4.70 | 0.53 | 3.1 |
| 4/17/2015 | 3:32:05 | 53.81 | 50.71 | 92 | 4.70 | 0.47 | 5.0 |
| 4/17/2015 | 3:32:06 | 54.13 | 51.03 | 201 | 5.29 | 0.48 | 11.0 |
| 4/17/2015 | 3:32:08 | 54.46 | 51.36 | 316 | 4.98 | 0.52 | 17.3 |
| 4/17/2015 | 3:32:11 | 54.79 | 51.69 | 41 | 3.64 | 0.44 | 2.2 |
| 4/17/2015 | 3:32:15 | 55.12 | 52.02 | 66 | 4.97 | 0.53 | 3.6 |
| 4/17/2015 | 3:32:18 | 55.45 | 52.35 | 99 | 4.79 | 0.45 | 5.4 |
| 4/17/2015 | 3:32:23 | 55.77 | 52.67 | 70 | 4.25 | 0.50 | 3.8 |
| 4/17/2015 | 3:32:29 | 56.10 | 53.00 | 63 | 4.05 | 0.47 | 3.4 |
| 4/17/2015 | 3:32:35 | 56.43 | 53.33 | 78 | 4.02 | 0.48 | 4.3 |
| 4/17/2015 | 3:32:42 | 56.76 | 53.66 | 29 | 4.19 | 0.53 | 1.6 |
| 4/17/2015 | 3:32:49 | 57.09 | 53.99 | 70 | 4.18 | 0.53 | 3.8 |
| 4/17/2015 | 3:32:55 | 57.41 | 54.31 | 66 | 3.86 | 0.47 | 3.6 |
| 4/17/2015 | 3:33:00 | 57.74 | 54.64 | 66 | 3.91 | 0.48 | 3.6 |
| 4/17/2015 | 3:33:06 | 58.07 | 54.97 | 70 | 3.91 | 0.47 | 3.8 |
| 4/17/2015 | 3:33:13 | 58.33 | 55.23 | 41 | 4.05 | 0.26 | 2.2 |

## B2 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:29:03

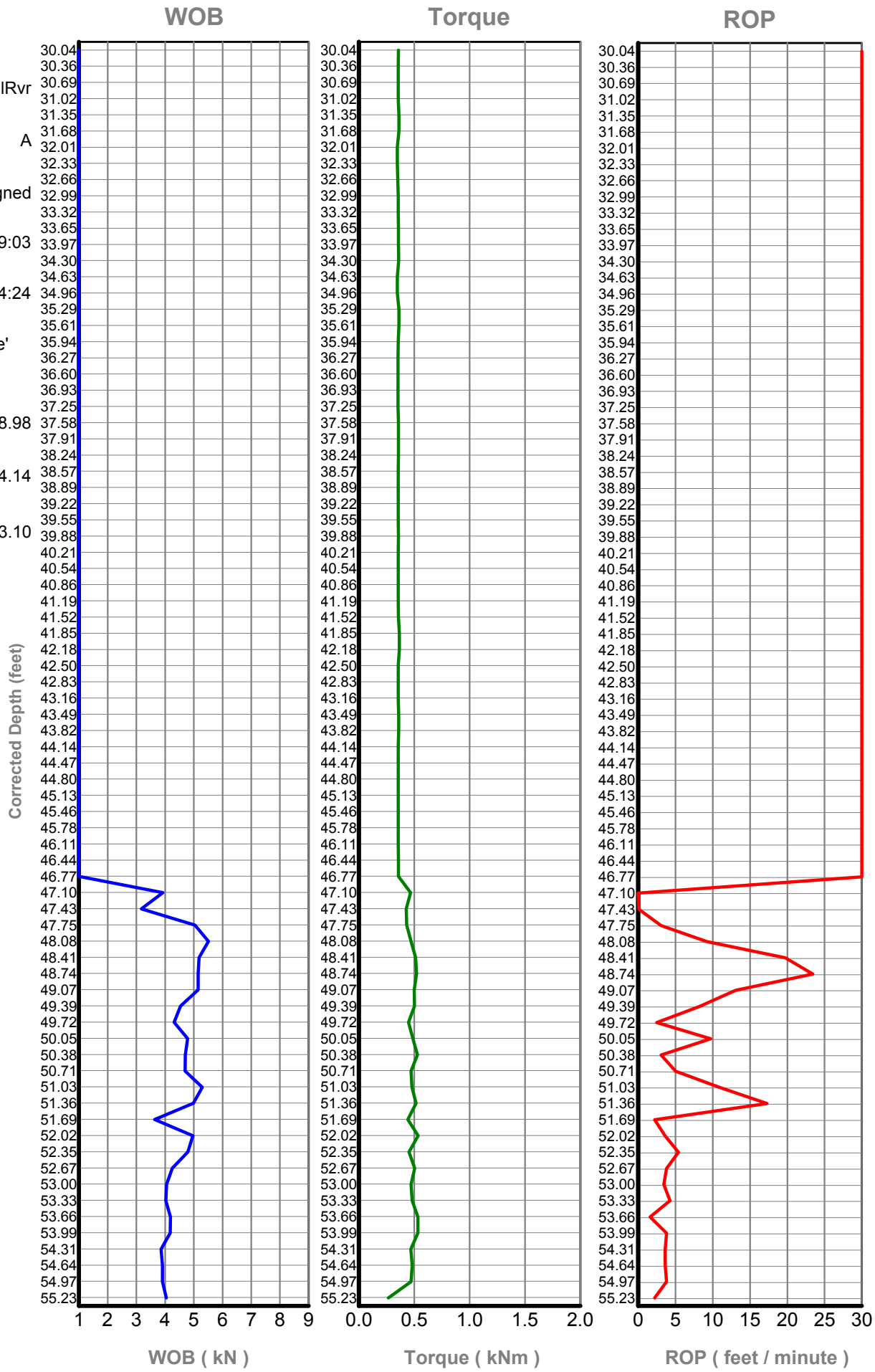
**End Date:**
4/17/2015 3:34:24

**Operator Note:**
'3.1 3.5 a Auto Complete'

**Northing:**
371,108.98

**Easting:**
259,494.14

**Tide (feet):**
3.10



## Hole: B20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:36:58 | 31.82 | 30.02 | 579 | 2.17 | 0.16 | 31.7 |
| 4/17/2015 8:36:59 | 32.15 | 30.35 | 579 | 2.15 | 0.16 | 31.7 |
| 4/17/2015 8:36:59 | 32.48 | 30.68 | 570 | 2.16 | 0.16 | 31.2 |
| 4/17/2015 8:37:00 | 32.81 | 31.01 | 570 | 2.16 | 0.16 | 31.2 |
| 4/17/2015 8:37:00 | 33.14 | 31.34 | 570 | 2.16 | 0.16 | 31.2 |
| 4/17/2015 8:37:02 | 33.46 | 31.66 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 8:37:02 | 33.79 | 31.99 | 578 | 2.16 | 0.16 | 31.6 |
| 4/17/2015 8:37:03 | 34.12 | 32.32 | 584 | 2.15 | 0.16 | 32.0 |
| 4/17/2015 8:37:03 | 34.45 | 32.65 | 581 | 2.17 | 0.16 | 31.8 |
| 4/17/2015 8:37:04 | 34.78 | 32.98 | 581 | 2.16 | 0.16 | 31.8 |
| 4/17/2015 8:37:05 | 35.11 | 33.31 | 581 | 2.15 | 0.16 | 31.8 |
| 4/17/2015 8:37:05 | 35.43 | 33.63 | 575 | 2.17 | 0.15 | 31.4 |
| 4/17/2015 8:37:06 | 35.76 | 33.96 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 8:37:06 | 36.09 | 34.29 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:37:07 | 36.42 | 34.62 | 582 | 2.14 | 0.15 | 31.8 |
| 4/17/2015 8:37:08 | 36.75 | 34.95 | 575 | 2.17 | 0.16 | 31.5 |
| 4/17/2015 8:37:08 | 37.07 | 35.27 | 569 | 2.15 | 0.15 | 31.1 |
| 4/17/2015 8:37:09 | 37.40 | 35.60 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:37:09 | 37.73 | 35.93 | 572 | 2.14 | 0.16 | 31.3 |
| 4/17/2015 8:37:10 | 38.06 | 36.26 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 8:37:10 | 38.39 | 36.59 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:37:11 | 38.71 | 36.91 | 575 | 2.16 | 0.15 | 31.4 |
| 4/17/2015 8:37:12 | 39.04 | 37.24 | 582 | 2.15 | 0.15 | 31.8 |
| 4/17/2015 8:37:13 | 39.37 | 37.57 | 579 | 2.17 | 0.15 | 31.6 |
| 4/17/2015 8:37:13 | 39.70 | 37.90 | 579 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 8:37:14 | 40.03 | 38.23 | 579 | 2.17 | 0.15 | 31.6 |
| 4/17/2015 8:37:15 | 40.35 | 38.55 | 565 | 2.17 | 0.15 | 30.9 |
| 4/17/2015 8:37:15 | 40.68 | 38.88 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 8:37:16 | 41.01 | 39.21 | 579 | 2.16 | 0.16 | 31.7 |
| 4/17/2015 8:37:16 | 41.34 | 39.54 | 579 | 2.17 | 0.15 | 31.7 |
| 4/17/2015 8:37:17 | 41.67 | 39.87 | 583 | 2.15 | 0.22 | 31.9 |
| 4/17/2015 8:37:18 | 41.99 | 40.19 | 585 | 2.15 | 0.15 | 32.0 |
| 4/17/2015 8:37:18 | 42.32 | 40.52 | 578 | 2.15 | 0.15 | 31.6 |
| 4/17/2015 8:37:19 | 42.65 | 40.85 | 572 | 2.17 | 0.16 | 31.3 |
| 4/17/2015 8:37:19 | 42.98 | 41.18 | 578 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 8:37:20 | 43.31 | 41.51 | 575 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 8:37:21 | 43.64 | 41.84 | 573 | 2.17 | 0.16 | 31.3 |
| 4/17/2015 8:37:21 | 43.96 | 42.16 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 8:37:22 | 44.29 | 42.49 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 8:37:23 | 44.62 | 42.82 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 8:37:23 | 44.95 | 43.15 | 569 | 2.15 | 0.15 | 31.1 |
| 4/17/2015 8:37:24 | 45.28 | 43.48 | 575 | 2.14 | 0.15 | 31.5 |
| 4/17/2015 8:37:25 | 45.60 | 43.80 | 569 | 2.17 | 0.15 | 31.1 |
| 4/17/2015 8:37:25 | 45.93 | 44.13 | 569 | 2.21 | 0.15 | 31.1 |
| 4/17/2015 8:37:26 | 46.26 | 44.46 | 573 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 8:37:26 | 46.59 | 44.79 | 573 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 8:37:27 | 46.92 | 45.12 | 566 | 2.17 | 0.15 | 31.0 |
| 4/17/2015 8:37:28 | 47.24 | 45.44 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 8:37:28 | 47.57 | 45.77 | 566 | 2.17 | 0.15 | 31.0 |
| 4/17/2015 8:38:05 | 47.90 | 46.10 | 0 | 2.19 | 0.91 | 0.0 |
| 4/17/2015 8:41:24 | 48.23 | 46.43 | 43 | 2.33 | 0.44 | 2.4 |
| 4/17/2015 8:41:45 | 48.56 | 46.76 | 110 | 2.31 | 1.11 | 6.0 |
| 4/17/2015 8:41:49 | 48.88 | 47.08 | 72 | 2.31 | 0.97 | 4.0 |
| 4/17/2015 8:41:51 | 49.21 | 47.41 | 168 | 2.17 | 1.11 | 9.2 |
| 4/17/2015 8:41:53 | 49.54 | 47.74 | 263 | 2.21 | 1.15 | 14.4 |
| 4/17/2015 8:41:53 | 49.87 | 48.07 | 311 | 2.21 | 1.02 | 17.0 |
| 4/17/2015 8:41:54 | 50.20 | 48.40 | 366 | 2.21 | 1.24 | 20.0 |
| 4/17/2015 8:41:55 | 50.53 | 48.73 | 371 | 1.95 | 1.07 | 20.3 |
| 4/17/2015 8:41:56 | 50.85 | 49.05 | 356 | 2.20 | 1.06 | 19.5 |
| 4/17/2015 8:41:57 | 51.18 | 49.38 | 349 | 2.24 | 1.35 | 19.1 |
| 4/17/2015 8:41:59 | 51.51 | 49.71 | 315 | 2.21 | 1.09 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:41:59 | 51.84 | 50.04 | 306 | 2.21 | 1.06 | 16.7 |
| 4/17/2015 | 8:42:01 | 52.17 | 50.37 | 299 | 2.25 | 1.32 | 16.3 |
| 4/17/2015 | 8:42:07 | 52.49 | 50.69 | 8 | 2.28 | 1.22 | 0.5 |
| 4/17/2015 | 8:42:08 | 52.82 | 51.02 | 153 | 2.29 | 1.13 | 8.3 |
| 4/17/2015 | 8:42:09 | 53.15 | 51.35 | 220 | 2.25 | 1.15 | 12.0 |
| 4/17/2015 | 8:42:10 | 53.48 | 51.68 | 296 | 2.27 | 1.15 | 16.2 |
| 4/17/2015 | 8:42:11 | 53.81 | 52.01 | 366 | 2.27 | 1.12 | 20.0 |
| 4/17/2015 | 8:42:12 | 54.13 | 52.33 | 359 | 2.30 | 1.12 | 19.6 |
| 4/17/2015 | 8:42:13 | 54.46 | 52.66 | 363 | 2.27 | 1.20 | 19.9 |
| 4/17/2015 | 8:42:14 | 54.79 | 52.99 | 364 | 2.25 | 1.13 | 19.9 |
| 4/17/2015 | 8:42:16 | 55.12 | 53.32 | 232 | 2.32 | 1.44 | 12.7 |
| 4/17/2015 | 8:42:21 | 55.45 | 53.65 | 103 | 2.33 | 1.38 | 5.6 |
| 4/17/2015 | 8:42:26 | 55.77 | 53.97 | 75 | 2.37 | 1.27 | 4.1 |
| 4/17/2015 | 8:42:43 | 56.10 | 54.30 | 0 | 2.33 | 1.41 | 0.0 |
| 4/17/2015 | 8:42:54 | 56.43 | 54.63 | 32 | 2.40 | 1.18 | 1.7 |
| 4/17/2015 | 8:43:07 | 56.76 | 54.96 | 33 | 2.41 | 1.30 | 1.8 |

## B20 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:34:57

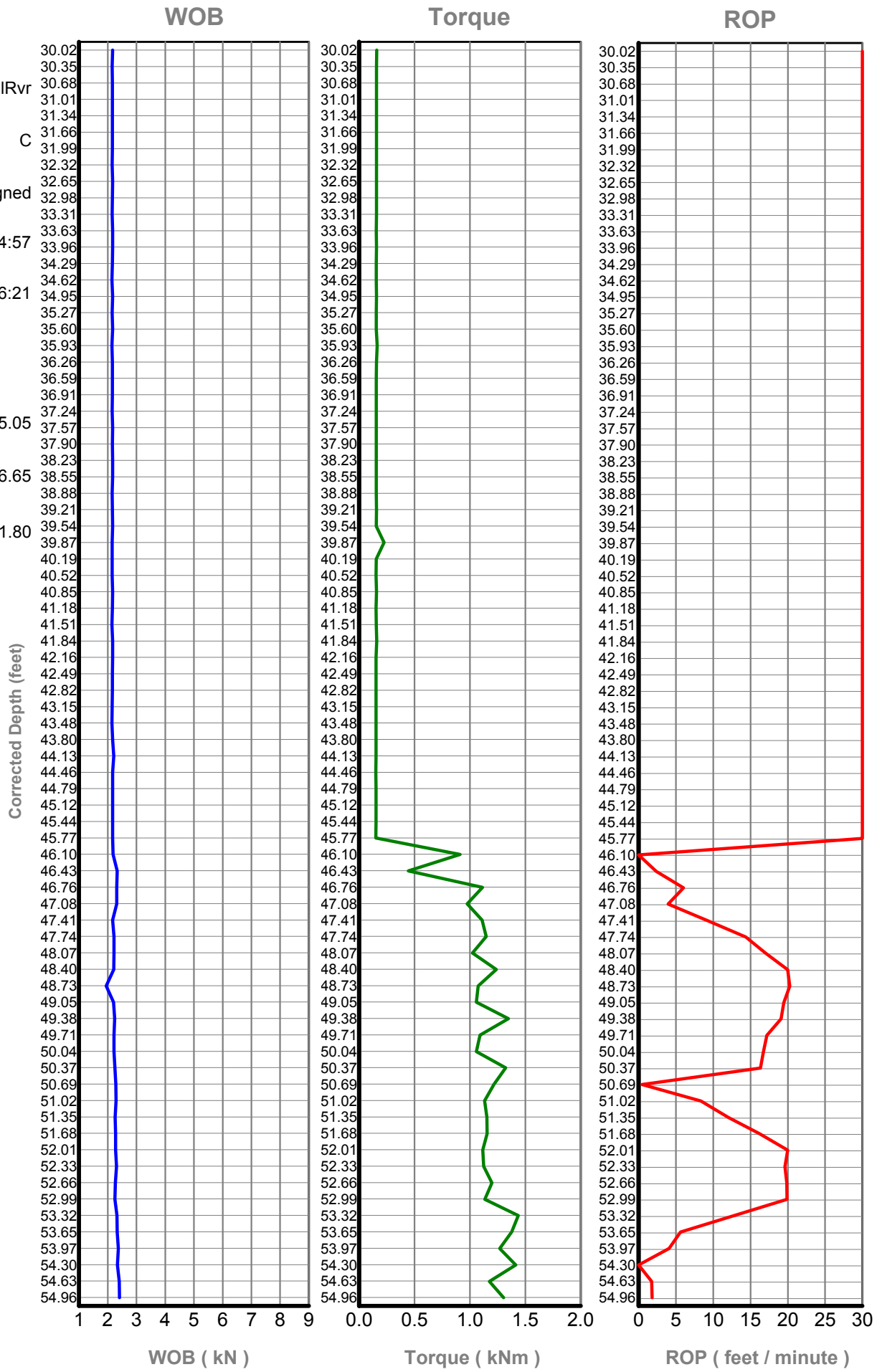
**End Date:**
4/17/2015 8:46:21

**Operator Note:**
'1.8 1.6 c Auto Complete'

**Northing:**
370,955.05

**Easting:**
259,416.65

**Tide (feet):**
1.80



## Hole: B21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 2:36:54 | 34.45 | 30.15 | 1,134 | 0.52 | 0.34 | 62.0 |
| 4/17/2015 2:36:54 | 34.78 | 30.48 | 1,134 | 0.52 | 0.34 | 62.0 |
| 4/17/2015 2:36:54 | 35.11 | 30.81 | 1,144 | 0.52 | 0.33 | 62.6 |
| 4/17/2015 2:36:55 | 35.43 | 31.13 | 1,144 | 0.52 | 0.33 | 62.6 |
| 4/17/2015 2:36:55 | 35.76 | 31.46 | 1,147 | 0.52 | 0.33 | 62.7 |
| 4/17/2015 2:36:55 | 36.09 | 31.79 | 1,147 | 0.52 | 0.33 | 62.7 |
| 4/17/2015 2:36:55 | 36.42 | 32.12 | 1,154 | 0.52 | 0.34 | 63.1 |
| 4/17/2015 2:36:56 | 36.75 | 32.45 | 1,169 | 0.52 | 0.34 | 63.9 |
| 4/17/2015 2:36:56 | 37.07 | 32.77 | 1,169 | 0.52 | 0.34 | 63.9 |
| 4/17/2015 2:36:56 | 37.40 | 33.10 | 1,175 | 0.52 | 0.34 | 64.2 |
| 4/17/2015 2:36:57 | 37.73 | 33.43 | 1,175 | 0.52 | 0.34 | 64.2 |
| 4/17/2015 2:36:57 | 38.06 | 33.76 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:36:57 | 38.39 | 34.09 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:36:57 | 38.71 | 34.41 | 1,174 | 0.52 | 0.33 | 64.2 |
| 4/17/2015 2:36:58 | 39.04 | 34.74 | 1,169 | 0.52 | 0.34 | 63.9 |
| 4/17/2015 2:36:58 | 39.37 | 35.07 | 1,169 | 0.52 | 0.34 | 63.9 |
| 4/17/2015 2:36:58 | 39.70 | 35.40 | 1,179 | 0.52 | 0.34 | 64.5 |
| 4/17/2015 2:36:59 | 40.03 | 35.73 | 1,179 | 0.52 | 0.34 | 64.5 |
| 4/17/2015 2:36:59 | 40.35 | 36.05 | 1,177 | 0.52 | 0.34 | 64.3 |
| 4/17/2015 2:36:59 | 40.68 | 36.38 | 1,177 | 0.52 | 0.34 | 64.3 |
| 4/17/2015 2:37:00 | 41.01 | 36.71 | 1,177 | 0.52 | 0.34 | 64.3 |
| 4/17/2015 2:37:00 | 41.34 | 37.04 | 1,177 | 0.52 | 0.34 | 64.3 |
| 4/17/2015 2:37:00 | 41.67 | 37.37 | 1,177 | 0.52 | 0.34 | 64.3 |
| 4/17/2015 2:37:00 | 41.99 | 37.69 | 1,181 | 0.52 | 0.33 | 64.6 |
| 4/17/2015 2:37:01 | 42.32 | 38.02 | 1,181 | 0.52 | 0.33 | 64.6 |
| 4/17/2015 2:37:01 | 42.65 | 38.35 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:37:01 | 42.98 | 38.68 | 1,171 | 0.52 | 0.33 | 64.0 |
| 4/17/2015 2:37:02 | 43.31 | 39.01 | 1,171 | 0.52 | 0.33 | 64.0 |
| 4/17/2015 2:37:02 | 43.64 | 39.34 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:37:03 | 43.96 | 39.66 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:37:03 | 44.29 | 39.99 | 1,171 | 0.52 | 0.34 | 64.0 |
| 4/17/2015 2:37:03 | 44.62 | 40.32 | 1,161 | 0.52 | 0.34 | 63.5 |
| 4/17/2015 2:37:04 | 44.95 | 40.65 | 1,161 | 0.52 | 0.34 | 63.5 |
| 4/17/2015 2:37:04 | 45.28 | 40.98 | 1,165 | 0.52 | 0.34 | 63.7 |
| 4/17/2015 2:37:04 | 45.60 | 41.30 | 1,165 | 0.52 | 0.34 | 63.7 |
| 4/17/2015 2:37:04 | 45.93 | 41.63 | 1,162 | 0.52 | 0.34 | 63.5 |
| 4/17/2015 2:37:05 | 46.26 | 41.96 | 1,162 | 0.52 | 0.34 | 63.5 |
| 4/17/2015 2:37:05 | 46.59 | 42.29 | 1,162 | 0.52 | 0.34 | 63.5 |
| 4/17/2015 2:37:05 | 46.92 | 42.62 | 1,159 | 0.52 | 0.34 | 63.4 |
| 4/17/2015 2:37:06 | 47.24 | 42.94 | 1,159 | 0.52 | 0.34 | 63.4 |
| 4/17/2015 2:37:06 | 47.57 | 43.27 | 1,163 | 0.52 | 0.34 | 63.6 |
| 4/17/2015 2:37:06 | 47.90 | 43.60 | 1,144 | 0.52 | 0.34 | 62.5 |
| 4/17/2015 2:37:07 | 48.23 | 43.93 | 1,144 | 0.52 | 0.34 | 62.5 |
| 4/17/2015 2:37:07 | 48.56 | 44.26 | 1,154 | 0.52 | 0.34 | 63.1 |
| 4/17/2015 2:37:07 | 48.88 | 44.58 | 1,154 | 0.52 | 0.34 | 63.1 |
| 4/17/2015 2:37:07 | 49.21 | 44.91 | 1,158 | 0.51 | 0.34 | 63.3 |
| 4/17/2015 2:37:08 | 49.54 | 45.24 | 1,158 | 0.51 | 0.34 | 63.3 |
| 4/17/2015 2:37:26 | 49.87 | 45.57 | 14 | 4.26 | 0.43 | 0.8 |
| 4/17/2015 2:37:27 | 50.20 | 45.90 | 129 | 5.04 | 0.51 | 7.1 |
| 4/17/2015 2:37:28 | 50.53 | 46.23 | 282 | 5.40 | 0.42 | 15.4 |
| 4/17/2015 2:37:29 | 50.85 | 46.55 | 379 | 3.62 | 0.43 | 20.7 |
| 4/17/2015 2:37:29 | 51.18 | 46.88 | 412 | 3.49 | 0.43 | 22.5 |
| 4/17/2015 2:37:30 | 51.51 | 47.21 | 536 | 3.75 | 0.45 | 29.3 |
| 4/17/2015 2:37:30 | 51.84 | 47.54 | 622 | 3.69 | 0.45 | 34.0 |
| 4/17/2015 2:37:31 | 52.17 | 47.87 | 667 | 4.11 | 0.44 | 36.5 |
| 4/17/2015 2:37:31 | 52.49 | 48.19 | 647 | 4.77 | 0.43 | 35.4 |
| 4/17/2015 2:37:32 | 52.82 | 48.52 | 524 | 3.79 | 0.45 | 28.7 |
| 4/17/2015 2:37:34 | 53.15 | 48.85 | 320 | 4.48 | 0.46 | 17.5 |
| 4/17/2015 2:37:35 | 53.48 | 49.18 | 261 | 4.25 | 0.49 | 14.2 |
| 4/17/2015 2:37:45 | 53.81 | 49.51 | 0 | 4.55 | 0.47 | 0.0 |
| 4/17/2015 2:37:46 | 54.13 | 49.83 | 21 | 4.76 | 0.45 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 2:37:48 | 54.46 | 50.16 | 172 | 4.86 | 0.45 | 9.4 |
| 4/17/2015 | 2:37:50 | 54.79 | 50.49 | 201 | 4.67 | 0.48 | 11.0 |
| 4/17/2015 | 2:37:51 | 55.12 | 50.82 | 173 | 4.29 | 0.44 | 9.4 |
| 4/17/2015 | 2:37:53 | 55.45 | 51.15 | 191 | 4.28 | 0.45 | 10.5 |
| 4/17/2015 | 2:37:56 | 55.77 | 51.47 | 138 | 5.29 | 0.44 | 7.6 |
| 4/17/2015 | 2:37:57 | 56.10 | 51.80 | 185 | 4.36 | 0.45 | 10.1 |
| 4/17/2015 | 2:37:59 | 56.43 | 52.13 | 230 | 4.47 | 0.45 | 12.6 |
| 4/17/2015 | 2:37:59 | 56.76 | 52.46 | 274 | 3.78 | 0.43 | 15.0 |
| 4/17/2015 | 2:38:01 | 57.09 | 52.79 | 279 | 3.66 | 0.46 | 15.3 |
| 4/17/2015 | 2:38:03 | 57.41 | 53.11 | 175 | 3.76 | 0.47 | 9.6 |
| 4/17/2015 | 2:38:06 | 57.74 | 53.44 | 135 | 3.99 | 0.46 | 7.4 |
| 4/17/2015 | 2:38:10 | 58.07 | 53.77 | 108 | 3.88 | 0.47 | 5.9 |
| 4/17/2015 | 2:38:15 | 58.40 | 54.10 | 71 | 4.36 | 0.47 | 3.9 |
| 4/17/2015 | 2:38:20 | 58.73 | 54.43 | 88 | 3.88 | 0.47 | 4.8 |
| 4/17/2015 | 2:38:24 | 59.06 | 54.76 | 84 | 3.98 | 0.47 | 4.6 |
| 4/17/2015 | 2:38:29 | 59.38 | 55.08 | 64 | 3.81 | 0.47 | 3.5 |
| 4/17/2015 | 2:38:34 | 59.63 | 55.33 | 52 | 3.60 | 0.18 | 2.8 |

## B21 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 2:32:18

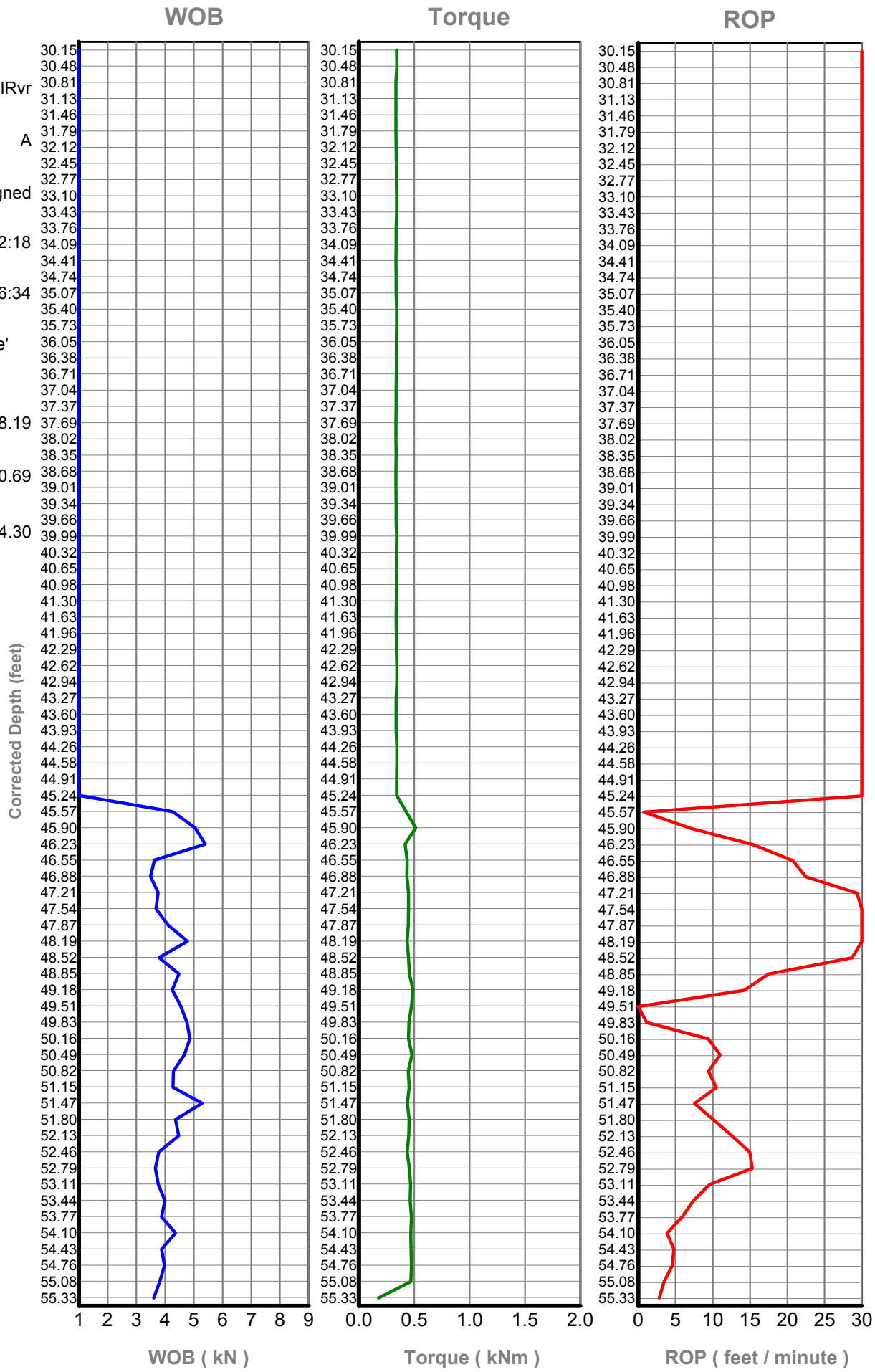
**End Date:**
4/17/2015 2:46:34

**Operator Note:**
'4.3 4.6 a Auto Complete'

**Northing:**
370,958.19

**Easting:**
259,480.69

**Tide (feet):**
4.30



## Hole: B22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 2:37:46 | 34.45 | 30.25 | 800 | 0.29 | 0.42 | 43.7 |
| 4/17/2015 2:37:46 | 34.78 | 30.58 | 782 | 0.29 | 0.42 | 42.8 |
| 4/17/2015 2:37:47 | 35.11 | 30.91 | 768 | 0.29 | 0.42 | 42.0 |
| 4/17/2015 2:37:47 | 35.43 | 31.23 | 746 | 0.29 | 0.42 | 40.8 |
| 4/17/2015 2:37:48 | 35.76 | 31.56 | 757 | 0.29 | 0.42 | 41.4 |
| 4/17/2015 2:37:48 | 36.09 | 31.89 | 773 | 0.29 | 0.42 | 42.2 |
| 4/17/2015 2:37:49 | 36.42 | 32.22 | 784 | 0.29 | 0.42 | 42.9 |
| 4/17/2015 2:37:50 | 36.75 | 32.55 | 768 | 0.29 | 0.42 | 42.0 |
| 4/17/2015 2:37:50 | 37.07 | 32.87 | 768 | 0.29 | 0.42 | 42.0 |
| 4/17/2015 2:37:51 | 37.40 | 33.20 | 768 | 0.29 | 0.42 | 42.0 |
| 4/17/2015 2:37:51 | 37.73 | 33.53 | 785 | 0.29 | 0.42 | 42.9 |
| 4/17/2015 2:37:51 | 38.06 | 33.86 | 767 | 0.29 | 0.42 | 41.9 |
| 4/17/2015 2:37:52 | 38.39 | 34.19 | 751 | 0.29 | 0.42 | 41.1 |
| 4/17/2015 2:37:52 | 38.71 | 34.51 | 745 | 0.29 | 0.42 | 40.8 |
| 4/17/2015 2:37:53 | 39.04 | 34.84 | 766 | 0.29 | 0.42 | 41.9 |
| 4/17/2015 2:37:53 | 39.37 | 35.17 | 766 | 0.29 | 0.42 | 41.9 |
| 4/17/2015 2:37:54 | 39.70 | 35.50 | 768 | 0.29 | 0.42 | 42.0 |
| 4/17/2015 2:37:54 | 40.03 | 35.83 | 761 | 0.29 | 0.42 | 41.6 |
| 4/17/2015 2:37:55 | 40.35 | 36.15 | 761 | 0.29 | 0.42 | 41.6 |
| 4/17/2015 2:37:55 | 40.68 | 36.48 | 764 | 0.29 | 0.42 | 41.8 |
| 4/17/2015 2:37:55 | 41.01 | 36.81 | 756 | 0.29 | 0.42 | 41.3 |
| 4/17/2015 2:37:56 | 41.34 | 37.14 | 757 | 0.29 | 0.42 | 41.4 |
| 4/17/2015 2:37:56 | 41.67 | 37.47 | 754 | 0.29 | 0.42 | 41.2 |
| 4/17/2015 2:37:57 | 41.99 | 37.79 | 772 | 0.29 | 0.42 | 42.2 |
| 4/17/2015 2:37:57 | 42.32 | 38.12 | 782 | 0.29 | 0.42 | 42.8 |
| 4/17/2015 2:37:58 | 42.65 | 38.45 | 789 | 0.29 | 0.42 | 43.2 |
| 4/17/2015 2:37:58 | 42.98 | 38.78 | 788 | 0.29 | 0.42 | 43.1 |
| 4/17/2015 2:37:59 | 43.31 | 39.11 | 788 | 0.29 | 0.42 | 43.1 |
| 4/17/2015 2:37:59 | 43.64 | 39.44 | 788 | 0.29 | 0.42 | 43.1 |
| 4/17/2015 2:38:00 | 43.96 | 39.76 | 795 | 0.29 | 0.42 | 43.4 |
| 4/17/2015 2:38:00 | 44.29 | 40.09 | 786 | 0.29 | 0.42 | 43.0 |
| 4/17/2015 2:38:01 | 44.62 | 40.42 | 786 | 0.29 | 0.42 | 43.0 |
| 4/17/2015 2:38:01 | 44.95 | 40.75 | 786 | 0.29 | 0.42 | 43.0 |
| 4/17/2015 2:38:02 | 45.28 | 41.08 | 786 | 0.29 | 0.42 | 43.0 |
| 4/17/2015 2:38:02 | 45.60 | 41.40 | 786 | 0.29 | 0.42 | 43.0 |
| 4/17/2015 2:38:02 | 45.93 | 41.73 | 803 | 0.29 | 0.42 | 43.9 |
| 4/17/2015 2:38:03 | 46.26 | 42.06 | 792 | 0.29 | 0.42 | 43.3 |
| 4/17/2015 2:38:03 | 46.59 | 42.39 | 811 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 2:38:04 | 46.92 | 42.72 | 799 | 0.29 | 0.42 | 43.7 |
| 4/17/2015 2:38:04 | 47.24 | 43.04 | 812 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 2:38:05 | 47.57 | 43.37 | 810 | 0.29 | 0.42 | 44.3 |
| 4/17/2015 2:38:05 | 47.90 | 43.70 | 810 | 0.29 | 0.42 | 44.3 |
| 4/17/2015 2:38:05 | 48.23 | 44.03 | 825 | 0.29 | 0.42 | 45.1 |
| 4/17/2015 2:38:06 | 48.56 | 44.36 | 818 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 2:38:06 | 48.88 | 44.68 | 830 | 0.29 | 0.42 | 45.4 |
| 4/17/2015 2:38:07 | 49.21 | 45.01 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 2:38:07 | 49.54 | 45.34 | 808 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 2:40:59 | 49.87 | 45.67 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 2:41:01 | 50.20 | 46.00 | 177 | 0.29 | 0.42 | 9.7 |
| 4/17/2015 2:41:03 | 50.53 | 46.33 | 198 | 0.29 | 0.42 | 10.8 |
| 4/17/2015 2:41:06 | 50.85 | 46.65 | 96 | 0.29 | 0.42 | 5.2 |
| 4/17/2015 2:41:12 | 51.18 | 46.98 | 40 | 0.29 | 0.42 | 2.2 |
| 4/17/2015 2:41:13 | 51.51 | 47.31 | 86 | 0.29 | 0.42 | 4.7 |
| 4/17/2015 2:41:14 | 51.84 | 47.64 | 268 | 0.29 | 0.42 | 14.6 |
| 4/17/2015 2:41:17 | 52.17 | 47.97 | 143 | 0.29 | 0.42 | 7.8 |
| 4/17/2015 2:41:41 | 52.49 | 48.29 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 2:41:51 | 52.82 | 48.62 | 71 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 2:41:54 | 53.15 | 48.95 | 101 | 0.29 | 0.42 | 5.5 |
| 4/17/2015 2:41:58 | 53.48 | 49.28 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 2:42:01 | 53.81 | 49.61 | 118 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 2:42:53 | 54.13 | 49.93 | 9 | 0.29 | 0.42 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 2:42:57 | 54.46 | 50.26 | 111 | 0.29 | 0.42 | 6.1 |
| 4/17/2015 | 2:43:00 | 54.79 | 50.59 | 116 | 0.29 | 0.42 | 6.4 |
| 4/17/2015 | 2:43:03 | 55.12 | 50.92 | 121 | 0.29 | 0.42 | 6.6 |
| 4/17/2015 | 2:43:06 | 55.45 | 51.25 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 2:43:17 | 55.77 | 51.57 | 26 | 0.29 | 0.42 | 1.4 |
| 4/17/2015 | 2:43:18 | 56.10 | 51.90 | 123 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 | 2:43:20 | 56.43 | 52.23 | 279 | 0.29 | 0.42 | 15.3 |
| 4/17/2015 | 2:43:25 | 56.76 | 52.56 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 2:43:29 | 57.09 | 52.89 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 2:43:35 | 57.41 | 53.21 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 | 2:43:36 | 57.74 | 53.54 | 154 | 0.29 | 0.42 | 8.4 |
| 4/17/2015 | 2:43:38 | 58.07 | 53.87 | 208 | 0.29 | 0.42 | 11.4 |
| 4/17/2015 | 2:43:40 | 58.40 | 54.20 | 151 | 0.29 | 0.42 | 8.3 |
| 4/17/2015 | 2:43:43 | 58.73 | 54.53 | 122 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 | 2:43:49 | 59.06 | 54.86 | 23 | 0.29 | 0.42 | 1.3 |
| 4/17/2015 | 2:43:54 | 59.38 | 55.18 | 96 | 0.29 | 0.42 | 5.3 |
| 4/17/2015 | 2:43:57 | 59.54 | 55.34 | 56 | 0.29 | 0.42 | 3.0 |

## B22 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 2:34:13

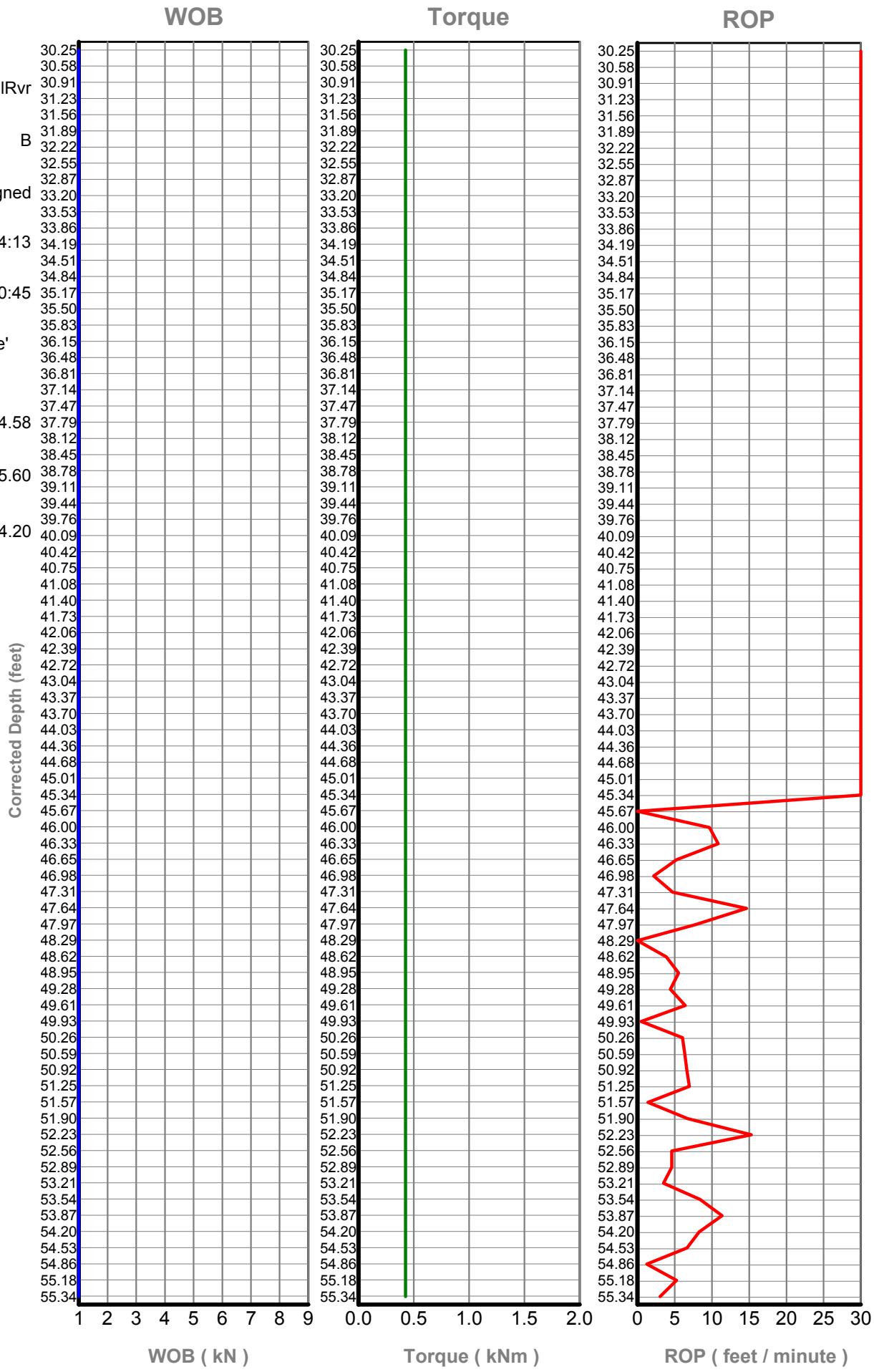
**End Date:**
4/17/2015 2:50:45

**Operator Note:**
'4.2 4.5 b Auto Complete'

**Northing:**
370,954.58

**Easting:**
259,555.60

**Tide (feet):**
4.20



## Hole: B23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 2:36:32 | 34.45 | 30.25 | 579 | 2.17 | 0.16 | 31.7 |
| 4/17/2015 2:36:32 | 34.78 | 30.58 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:33 | 35.11 | 30.91 | 579 | 2.15 | 0.16 | 31.7 |
| 4/17/2015 2:36:33 | 35.43 | 31.23 | 575 | 2.17 | 0.16 | 31.5 |
| 4/17/2015 2:36:34 | 35.76 | 31.56 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 2:36:35 | 36.09 | 31.89 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:35 | 36.42 | 32.22 | 569 | 2.15 | 0.16 | 31.1 |
| 4/17/2015 2:36:36 | 36.75 | 32.55 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:36 | 37.07 | 32.87 | 572 | 2.16 | 0.16 | 31.3 |
| 4/17/2015 2:36:37 | 37.40 | 33.20 | 576 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:38 | 37.73 | 33.53 | 578 | 2.15 | 0.16 | 31.6 |
| 4/17/2015 2:36:38 | 38.06 | 33.86 | 572 | 2.16 | 0.16 | 31.3 |
| 4/17/2015 2:36:39 | 38.39 | 34.19 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 2:36:39 | 38.71 | 34.51 | 568 | 2.17 | 0.16 | 31.1 |
| 4/17/2015 2:36:40 | 39.04 | 34.84 | 578 | 2.16 | 0.16 | 31.6 |
| 4/17/2015 2:36:41 | 39.37 | 35.17 | 576 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:41 | 39.70 | 35.50 | 576 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:42 | 40.03 | 35.83 | 582 | 2.17 | 0.16 | 31.8 |
| 4/17/2015 2:36:43 | 40.35 | 36.15 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 2:36:43 | 40.68 | 36.48 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 2:36:44 | 41.01 | 36.81 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 2:36:45 | 41.34 | 37.14 | 575 | 2.17 | 0.16 | 31.5 |
| 4/17/2015 2:36:45 | 41.67 | 37.47 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 2:36:46 | 41.99 | 37.79 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 2:36:46 | 42.32 | 38.12 | 578 | 2.17 | 0.16 | 31.6 |
| 4/17/2015 2:36:47 | 42.65 | 38.45 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 2:36:48 | 42.98 | 38.78 | 569 | 2.17 | 0.16 | 31.1 |
| 4/17/2015 2:36:48 | 43.31 | 39.11 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 2:36:49 | 43.64 | 39.44 | 572 | 2.17 | 0.16 | 31.3 |
| 4/17/2015 2:36:49 | 43.96 | 39.76 | 575 | 2.17 | 0.16 | 31.5 |
| 4/17/2015 2:36:50 | 44.29 | 40.09 | 573 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 2:36:51 | 44.62 | 40.42 | 572 | 2.16 | 0.16 | 31.3 |
| 4/17/2015 2:36:51 | 44.95 | 40.75 | 575 | 2.16 | 0.16 | 31.5 |
| 4/17/2015 2:36:52 | 45.28 | 41.08 | 569 | 2.16 | 0.15 | 31.1 |
| 4/17/2015 2:36:53 | 45.60 | 41.40 | 575 | 2.15 | 0.16 | 31.5 |
| 4/17/2015 2:36:53 | 45.93 | 41.73 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 2:36:54 | 46.26 | 42.06 | 572 | 2.17 | 0.15 | 31.3 |
| 4/17/2015 2:36:55 | 46.59 | 42.39 | 579 | 2.16 | 0.15 | 31.6 |
| 4/17/2015 2:36:55 | 46.92 | 42.72 | 575 | 2.15 | 0.15 | 31.5 |
| 4/17/2015 2:36:56 | 47.24 | 43.04 | 576 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 2:36:56 | 47.57 | 43.37 | 575 | 2.17 | 0.15 | 31.5 |
| 4/17/2015 2:36:57 | 47.90 | 43.70 | 575 | 2.16 | 0.15 | 31.5 |
| 4/17/2015 2:36:58 | 48.23 | 44.03 | 572 | 2.16 | 0.15 | 31.3 |
| 4/17/2015 2:36:58 | 48.56 | 44.36 | 572 | 2.15 | 0.15 | 31.3 |
| 4/17/2015 2:36:59 | 48.88 | 44.68 | 575 | 2.19 | 0.15 | 31.5 |
| 4/17/2015 2:37:21 | 49.21 | 45.01 | 31 | 2.21 | 1.18 | 1.7 |
| 4/17/2015 2:37:22 | 49.54 | 45.34 | 120 | 2.20 | 1.15 | 6.5 |
| 4/17/2015 2:37:23 | 49.87 | 45.67 | 308 | 2.19 | 1.11 | 16.9 |
| 4/17/2015 2:37:24 | 50.20 | 46.00 | 400 | 2.22 | 1.25 | 21.9 |
| 4/17/2015 2:37:25 | 50.53 | 46.33 | 367 | 2.31 | 1.35 | 20.1 |
| 4/17/2015 2:37:30 | 50.85 | 46.65 | 90 | 2.29 | 1.39 | 4.9 |
| 4/17/2015 2:37:32 | 51.18 | 46.98 | 187 | 2.28 | 1.36 | 10.2 |
| 4/17/2015 2:37:34 | 51.51 | 47.31 | 223 | 2.20 | 1.14 | 12.2 |
| 4/17/2015 2:37:35 | 51.84 | 47.64 | 283 | 2.27 | 1.25 | 15.5 |
| 4/17/2015 2:37:36 | 52.17 | 47.97 | 318 | 2.25 | 1.23 | 17.4 |
| 4/17/2015 2:37:41 | 52.49 | 48.29 | 9 | 2.24 | 1.19 | 0.5 |
| 4/17/2015 2:37:45 | 52.82 | 48.62 | 79 | 2.25 | 1.18 | 4.3 |
| 4/17/2015 2:37:46 | 53.15 | 48.95 | 236 | 2.30 | 1.27 | 12.9 |
| 4/17/2015 2:37:47 | 53.48 | 49.28 | 358 | 2.33 | 1.31 | 19.6 |
| 4/17/2015 2:37:49 | 53.81 | 49.61 | 287 | 2.34 | 1.26 | 15.7 |
| 4/17/2015 2:37:52 | 54.13 | 49.93 | 87 | 2.37 | 1.35 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 2:37:56 | 54.46 | 50.26 | 84 | 2.38 | 1.27 | 4.6 |
| 4/17/2015 | 2:37:59 | 54.79 | 50.59 | 107 | 2.39 | 1.27 | 5.8 |
| 4/17/2015 | 2:38:02 | 54.93 | 50.73 | 48 | 2.39 | 1.33 | 2.6 |

## B23 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 2:34:32

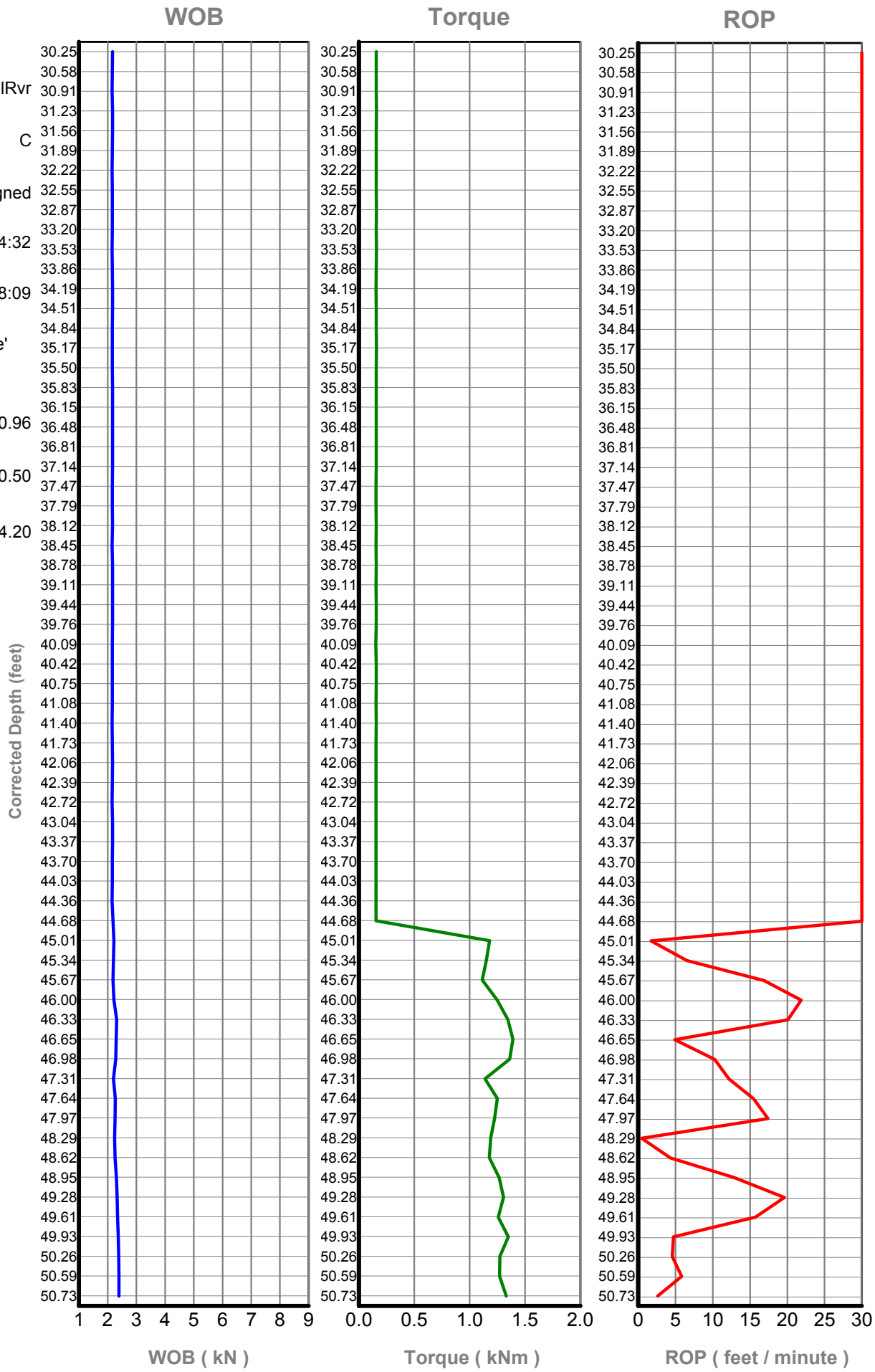
**End Date:**
4/17/2015 2:38:09

**Operator Note:**
'4.2 4.5 c Auto Complete'

**Northing:**
370,950.96

**Easting:**
259,630.50

**Tide (feet):**
4.20



## Hole: B24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:18:56 | 34.12 | 30.02 | 1,122 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 21:18:56 | 34.45 | 30.35 | 1,100 | 0.56 | 0.35 | 60.1 |
| 4/16/2015 21:18:57 | 34.78 | 30.68 | 1,100 | 0.55 | 0.35 | 60.1 |
| 4/16/2015 21:18:57 | 35.11 | 31.01 | 1,100 | 0.55 | 0.35 | 60.1 |
| 4/16/2015 21:18:57 | 35.43 | 31.33 | 1,105 | 0.56 | 0.35 | 60.4 |
| 4/16/2015 21:18:58 | 35.76 | 31.66 | 1,105 | 0.56 | 0.35 | 60.4 |
| 4/16/2015 21:18:58 | 36.09 | 31.99 | 1,105 | 0.55 | 0.35 | 60.4 |
| 4/16/2015 21:18:58 | 36.42 | 32.32 | 1,125 | 0.56 | 0.35 | 61.5 |
| 4/16/2015 21:18:59 | 36.75 | 32.65 | 1,125 | 0.56 | 0.35 | 61.5 |
| 4/16/2015 21:18:59 | 37.07 | 32.97 | 1,112 | 0.56 | 0.35 | 60.8 |
| 4/16/2015 21:18:59 | 37.40 | 33.30 | 1,112 | 0.56 | 0.35 | 60.8 |
| 4/16/2015 21:18:59 | 37.73 | 33.63 | 1,112 | 0.56 | 0.35 | 60.8 |
| 4/16/2015 21:19:00 | 38.06 | 33.96 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:19:00 | 38.39 | 34.29 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:19:00 | 38.71 | 34.61 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:19:01 | 39.04 | 34.94 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:19:01 | 39.37 | 35.27 | 1,143 | 0.55 | 0.36 | 62.5 |
| 4/16/2015 21:19:01 | 39.70 | 35.60 | 1,133 | 0.55 | 0.35 | 62.0 |
| 4/16/2015 21:19:02 | 40.03 | 35.93 | 1,133 | 0.55 | 0.35 | 62.0 |
| 4/16/2015 21:19:02 | 40.35 | 36.25 | 1,133 | 0.55 | 0.35 | 62.0 |
| 4/16/2015 21:19:03 | 40.68 | 36.58 | 1,133 | 0.55 | 0.35 | 62.0 |
| 4/16/2015 21:19:03 | 41.01 | 36.91 | 1,117 | 0.55 | 0.35 | 61.1 |
| 4/16/2015 21:19:03 | 41.34 | 37.24 | 1,139 | 0.55 | 0.35 | 62.3 |
| 4/16/2015 21:19:04 | 41.67 | 37.57 | 1,139 | 0.55 | 0.35 | 62.3 |
| 4/16/2015 21:19:04 | 41.99 | 37.89 | 1,145 | 0.56 | 0.35 | 62.6 |
| 4/16/2015 21:19:04 | 42.32 | 38.22 | 1,145 | 0.56 | 0.35 | 62.6 |
| 4/16/2015 21:19:04 | 42.65 | 38.55 | 1,120 | 0.55 | 0.35 | 61.2 |
| 4/16/2015 21:19:05 | 42.98 | 38.88 | 1,130 | 0.54 | 0.36 | 61.8 |
| 4/16/2015 21:19:05 | 43.31 | 39.21 | 1,130 | 0.54 | 0.36 | 61.8 |
| 4/16/2015 21:19:05 | 43.64 | 39.54 | 1,130 | 0.54 | 0.35 | 61.8 |
| 4/16/2015 21:19:06 | 43.96 | 39.86 | 1,146 | 0.55 | 0.35 | 62.7 |
| 4/16/2015 21:19:06 | 44.29 | 40.19 | 1,146 | 0.55 | 0.35 | 62.7 |
| 4/16/2015 21:19:06 | 44.62 | 40.52 | 1,146 | 0.54 | 0.35 | 62.7 |
| 4/16/2015 21:19:07 | 44.95 | 40.85 | 1,146 | 0.54 | 0.35 | 62.7 |
| 4/16/2015 21:19:07 | 45.28 | 41.18 | 1,139 | 0.54 | 0.35 | 62.3 |
| 4/16/2015 21:19:07 | 45.60 | 41.50 | 1,149 | 0.54 | 0.35 | 62.8 |
| 4/16/2015 21:19:08 | 45.93 | 41.83 | 1,149 | 0.54 | 0.35 | 62.8 |
| 4/16/2015 21:19:08 | 46.26 | 42.16 | 1,155 | 0.54 | 0.35 | 63.2 |
| 4/16/2015 21:19:08 | 46.59 | 42.49 | 1,155 | 0.54 | 0.35 | 63.2 |
| 4/16/2015 21:19:08 | 46.92 | 42.82 | 1,136 | 0.54 | 0.36 | 62.1 |
| 4/16/2015 21:19:09 | 47.24 | 43.14 | 1,130 | 0.54 | 0.35 | 61.8 |
| 4/16/2015 21:19:09 | 47.57 | 43.47 | 1,130 | 0.54 | 0.35 | 61.8 |
| 4/16/2015 21:19:28 | 47.90 | 43.80 | 0 | 4.99 | 0.49 | 0.0 |
| 4/16/2015 21:19:30 | 48.23 | 44.13 | 112 | 4.16 | 0.41 | 6.1 |
| 4/16/2015 21:19:35 | 48.56 | 44.46 | 55 | 4.47 | 0.47 | 3.0 |
| 4/16/2015 21:25:58 | 48.88 | 44.78 | 46 | 4.13 | 0.43 | 2.5 |
| 4/16/2015 21:26:06 | 49.21 | 45.11 | 49 | 4.67 | 0.42 | 2.7 |
| 4/16/2015 21:26:15 | 49.54 | 45.44 | 43 | 3.75 | 0.42 | 2.4 |
| 4/16/2015 21:26:24 | 49.87 | 45.77 | 41 | 4.59 | 0.43 | 2.2 |
| 4/16/2015 21:26:27 | 49.97 | 45.87 | 41 | 4.06 | 0.47 | 2.2 |

## B24 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 21:16:23

**End Date:**
4/16/2015 21:30:08

**Operator Note:**
'4.1 3.9 a Auto Complete'

**Northing:**
370,952.86

**Easting:**
259,724.66

**Tide (feet):**
4.10



## Hole: B25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:18:39 | 34.12 | 30.02 | 1,044 | 0.29 | 0.42 | 57.1 |
| 4/16/2015 21:18:40 | 34.45 | 30.35 | 1,044 | 0.29 | 0.42 | 57.1 |
| 4/16/2015 21:18:40 | 34.78 | 30.68 | 1,038 | 0.29 | 0.42 | 56.8 |
| 4/16/2015 21:18:40 | 35.11 | 31.01 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:41 | 35.43 | 31.33 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:41 | 35.76 | 31.66 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:42 | 36.09 | 31.99 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/16/2015 21:18:42 | 36.42 | 32.32 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/16/2015 21:18:42 | 36.75 | 32.65 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:43 | 37.07 | 32.97 | 1,027 | 0.29 | 0.42 | 56.2 |
| 4/16/2015 21:18:43 | 37.40 | 33.30 | 1,027 | 0.29 | 0.42 | 56.2 |
| 4/16/2015 21:18:43 | 37.73 | 33.63 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/16/2015 21:18:44 | 38.06 | 33.96 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:44 | 38.39 | 34.29 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:44 | 38.71 | 34.61 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:45 | 39.04 | 34.94 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:45 | 39.37 | 35.27 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:45 | 39.70 | 35.60 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:46 | 40.03 | 35.93 | 1,029 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:46 | 40.35 | 36.25 | 1,029 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 21:18:46 | 40.68 | 36.58 | 1,032 | 0.29 | 0.42 | 56.4 |
| 4/16/2015 21:18:47 | 41.01 | 36.91 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:47 | 41.34 | 37.24 | 1,023 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:47 | 41.67 | 37.57 | 1,026 | 0.29 | 0.42 | 56.1 |
| 4/16/2015 21:18:48 | 41.99 | 37.89 | 1,033 | 0.29 | 0.42 | 56.5 |
| 4/16/2015 21:18:48 | 42.32 | 38.22 | 1,033 | 0.29 | 0.42 | 56.5 |
| 4/16/2015 21:18:48 | 42.65 | 38.55 | 1,035 | 0.29 | 0.42 | 56.6 |
| 4/16/2015 21:18:49 | 42.98 | 38.88 | 1,027 | 0.29 | 0.42 | 56.1 |
| 4/16/2015 21:18:49 | 43.31 | 39.21 | 1,027 | 0.29 | 0.42 | 56.1 |
| 4/16/2015 21:18:49 | 43.64 | 39.54 | 1,027 | 0.29 | 0.42 | 56.1 |
| 4/16/2015 21:18:50 | 43.96 | 39.86 | 1,032 | 0.29 | 0.42 | 56.5 |
| 4/16/2015 21:18:50 | 44.29 | 40.19 | 1,032 | 0.29 | 0.42 | 56.5 |
| 4/16/2015 21:18:50 | 44.62 | 40.52 | 1,020 | 0.29 | 0.42 | 55.8 |
| 4/16/2015 21:18:51 | 44.95 | 40.85 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/16/2015 21:18:59 | 45.28 | 41.18 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 21:18:59 | 45.60 | 41.50 | 126 | 0.29 | 0.42 | 6.9 |
| 4/16/2015 21:19:00 | 45.93 | 41.83 | 312 | 0.29 | 0.42 | 17.0 |
| 4/16/2015 21:19:00 | 46.26 | 42.16 | 312 | 0.29 | 0.42 | 17.0 |
| 4/16/2015 21:19:00 | 46.59 | 42.49 | 312 | 0.29 | 0.42 | 17.0 |
| 4/16/2015 21:19:01 | 46.92 | 42.82 | 516 | 0.29 | 0.42 | 28.2 |
| 4/16/2015 21:19:01 | 47.24 | 43.14 | 516 | 0.29 | 0.42 | 28.2 |
| 4/16/2015 21:19:01 | 47.57 | 43.47 | 713 | 0.29 | 0.42 | 39.0 |
| 4/16/2015 21:19:02 | 47.90 | 43.80 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 21:19:02 | 48.23 | 44.13 | 920 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 21:19:02 | 48.56 | 44.46 | 991 | 0.29 | 0.42 | 54.2 |
| 4/16/2015 21:19:03 | 48.88 | 44.78 | 1,002 | 0.29 | 0.42 | 54.8 |
| 4/16/2015 21:19:03 | 49.21 | 45.11 | 1,002 | 0.29 | 0.42 | 54.8 |
| 4/16/2015 21:19:03 | 49.54 | 45.44 | 1,002 | 0.29 | 0.42 | 54.8 |
| 4/16/2015 21:19:53 | 49.87 | 45.77 | 35 | 0.29 | 0.42 | 1.9 |
| 4/16/2015 21:20:02 | 50.20 | 46.10 | 3 | 0.29 | 0.42 | 0.2 |
| 4/16/2015 21:20:03 | 50.53 | 46.43 | 152 | 0.29 | 0.42 | 8.3 |
| 4/16/2015 21:20:07 | 50.85 | 46.75 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 21:20:09 | 51.18 | 47.08 | 170 | 0.29 | 0.42 | 9.3 |
| 4/16/2015 21:20:11 | 51.51 | 47.41 | 165 | 0.29 | 0.42 | 9.0 |
| 4/16/2015 21:20:12 | 51.84 | 47.74 | 207 | 0.29 | 0.42 | 11.3 |
| 4/16/2015 21:20:17 | 52.17 | 48.07 | 85 | 0.29 | 0.42 | 4.6 |
| 4/16/2015 21:20:22 | 52.49 | 48.39 | 50 | 0.29 | 0.42 | 2.7 |
| 4/16/2015 21:20:23 | 52.82 | 48.72 | 166 | 0.29 | 0.42 | 9.1 |
| 4/16/2015 21:20:23 | 53.15 | 49.05 | 255 | 0.29 | 0.42 | 14.0 |
| 4/16/2015 21:20:28 | 53.48 | 49.38 | 65 | 0.29 | 0.42 | 3.6 |
| 4/16/2015 21:20:31 | 53.81 | 49.71 | 148 | 0.29 | 0.42 | 8.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 21:20:32 | 54.13 | 50.03 | 180 | 0.29 | 0.42 | 9.9 |
| 4/16/2015 | 21:20:35 | 54.46 | 50.36 | 137 | 0.29 | 0.42 | 7.5 |
| 4/16/2015 | 21:20:42 | 54.79 | 50.69 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 21:20:48 | 55.12 | 51.02 | 35 | 0.29 | 0.42 | 1.9 |
| 4/16/2015 | 21:20:53 | 55.45 | 51.35 | 84 | 0.29 | 0.42 | 4.6 |
| 4/16/2015 | 21:20:57 | 55.77 | 51.67 | 81 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 | 21:21:01 | 56.10 | 52.00 | 81 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 | 21:21:06 | 56.43 | 52.33 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 21:21:11 | 56.76 | 52.66 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 | 21:21:14 | 57.09 | 52.99 | 99 | 0.29 | 0.42 | 5.4 |
| 4/16/2015 | 21:21:17 | 57.41 | 53.31 | 136 | 0.29 | 0.42 | 7.4 |
| 4/16/2015 | 21:21:19 | 57.74 | 53.64 | 146 | 0.29 | 0.42 | 8.0 |
| 4/16/2015 | 21:21:25 | 58.07 | 53.97 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 | 21:21:30 | 58.40 | 54.30 | 53 | 0.29 | 0.42 | 2.9 |
| 4/16/2015 | 21:21:36 | 58.73 | 54.63 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 | 21:21:46 | 58.98 | 54.88 | 6 | 0.29 | 0.42 | 0.3 |

## B25 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 21:15:41

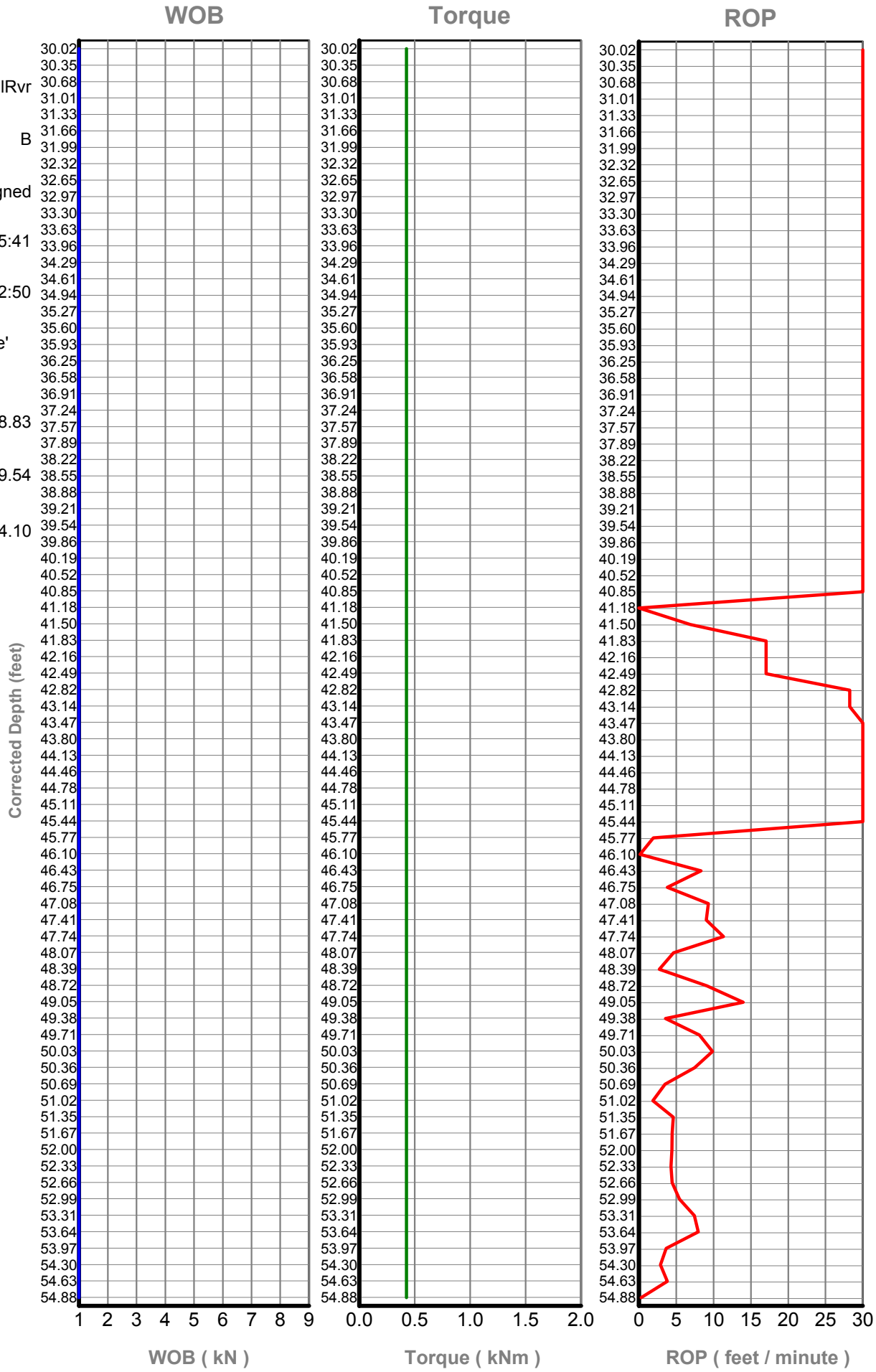
**End Date:**
4/16/2015 21:22:50

**Operator Note:**
'4.1 3.9 b Auto Complete'

**Northing:**
370,948.83

**Easting:**
259,799.54

**Tide (feet):**
4.10



## Hole: B26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:16:50 | 34.12 | 30.22 | 732 | 2.28 | 0.14 | 40.0 |
| 4/16/2015 21:16:51 | 34.45 | 30.55 | 735 | 2.29 | 0.14 | 40.2 |
| 4/16/2015 21:16:51 | 34.78 | 30.88 | 730 | 2.28 | 0.14 | 39.9 |
| 4/16/2015 21:16:52 | 35.11 | 31.21 | 721 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 21:16:52 | 35.43 | 31.53 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 21:16:53 | 35.76 | 31.86 | 728 | 2.28 | 0.14 | 39.8 |
| 4/16/2015 21:16:53 | 36.09 | 32.19 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 21:16:54 | 36.42 | 32.52 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 21:16:54 | 36.75 | 32.85 | 721 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 21:16:55 | 37.07 | 33.17 | 726 | 2.28 | 0.14 | 39.7 |
| 4/16/2015 21:16:55 | 37.40 | 33.50 | 723 | 2.27 | 0.14 | 39.5 |
| 4/16/2015 21:16:56 | 37.73 | 33.83 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 21:16:56 | 38.06 | 34.16 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 21:16:57 | 38.39 | 34.49 | 730 | 2.28 | 0.14 | 39.9 |
| 4/16/2015 21:16:57 | 38.71 | 34.81 | 730 | 2.28 | 0.14 | 39.9 |
| 4/16/2015 21:16:57 | 39.04 | 35.14 | 726 | 2.28 | 0.14 | 39.7 |
| 4/16/2015 21:16:58 | 39.37 | 35.47 | 726 | 2.28 | 0.14 | 39.7 |
| 4/16/2015 21:16:58 | 39.70 | 35.80 | 721 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 21:16:59 | 40.03 | 36.13 | 728 | 2.25 | 0.14 | 39.8 |
| 4/16/2015 21:16:59 | 40.35 | 36.45 | 726 | 2.29 | 0.14 | 39.7 |
| 4/16/2015 21:17:00 | 40.68 | 36.78 | 726 | 2.29 | 0.14 | 39.7 |
| 4/16/2015 21:17:01 | 41.01 | 37.11 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 21:17:01 | 41.34 | 37.44 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 21:17:02 | 41.67 | 37.77 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:02 | 41.99 | 38.09 | 723 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 21:17:03 | 42.32 | 38.42 | 719 | 2.28 | 0.22 | 39.3 |
| 4/16/2015 21:17:03 | 42.65 | 38.75 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 21:17:04 | 42.98 | 39.08 | 726 | 2.28 | 0.14 | 39.7 |
| 4/16/2015 21:17:04 | 43.31 | 39.41 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:05 | 43.64 | 39.74 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:05 | 43.96 | 40.06 | 730 | 2.28 | 0.14 | 39.9 |
| 4/16/2015 21:17:06 | 44.29 | 40.39 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:06 | 44.62 | 40.72 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:07 | 44.95 | 41.05 | 723 | 2.28 | 0.14 | 39.5 |
| 4/16/2015 21:17:07 | 45.28 | 41.38 | 715 | 2.28 | 0.14 | 39.1 |
| 4/16/2015 21:17:07 | 45.60 | 41.70 | 713 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 21:17:08 | 45.93 | 42.03 | 699 | 2.27 | 0.14 | 38.2 |
| 4/16/2015 21:17:08 | 46.26 | 42.36 | 703 | 2.29 | 0.14 | 38.5 |
| 4/16/2015 21:17:09 | 46.59 | 42.69 | 703 | 2.28 | 0.14 | 38.5 |
| 4/16/2015 21:17:09 | 46.92 | 43.02 | 715 | 2.28 | 0.14 | 39.1 |
| 4/16/2015 21:17:10 | 47.24 | 43.34 | 710 | 2.28 | 0.14 | 38.8 |
| 4/16/2015 21:17:11 | 47.57 | 43.67 | 710 | 2.27 | 0.14 | 38.8 |
| 4/16/2015 21:17:11 | 47.90 | 44.00 | 710 | 2.28 | 0.14 | 38.8 |
| 4/16/2015 21:17:12 | 48.23 | 44.33 | 710 | 2.27 | 0.14 | 38.8 |
| 4/16/2015 21:17:12 | 48.56 | 44.66 | 721 | 2.28 | 0.14 | 39.4 |
| 4/16/2015 21:17:13 | 48.88 | 44.98 | 717 | 2.29 | 0.14 | 39.2 |
| 4/16/2015 21:17:13 | 49.21 | 45.31 | 717 | 2.27 | 0.14 | 39.2 |
| 4/16/2015 21:17:14 | 49.54 | 45.64 | 708 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 21:17:14 | 49.87 | 45.97 | 729 | 2.29 | 0.14 | 39.9 |
| 4/16/2015 21:17:15 | 50.20 | 46.30 | 726 | 2.20 | 0.14 | 39.7 |
| 4/16/2015 21:17:49 | 50.53 | 46.63 | 9 | 2.39 | 1.17 | 0.5 |
| 4/16/2015 21:17:50 | 50.85 | 46.95 | 157 | 2.38 | 1.06 | 8.6 |
| 4/16/2015 21:17:51 | 51.18 | 47.28 | 251 | 2.36 | 1.00 | 13.7 |
| 4/16/2015 21:17:51 | 51.51 | 47.61 | 357 | 2.36 | 0.89 | 19.5 |
| 4/16/2015 21:18:49 | 51.84 | 47.94 | 21 | 2.36 | 1.16 | 1.1 |
| 4/16/2015 21:18:50 | 52.17 | 48.27 | 157 | 2.42 | 1.26 | 8.6 |
| 4/16/2015 21:18:52 | 52.49 | 48.59 | 212 | 2.45 | 1.42 | 11.6 |
| 4/16/2015 21:18:53 | 52.82 | 48.92 | 211 | 2.37 | 1.30 | 11.6 |
| 4/16/2015 21:18:54 | 53.15 | 49.25 | 262 | 2.33 | 0.92 | 14.3 |
| 4/16/2015 21:18:55 | 53.48 | 49.58 | 334 | 2.34 | 0.94 | 18.3 |
| 4/16/2015 21:18:56 | 53.81 | 49.91 | 396 | 2.34 | 0.90 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 21:18:56 | 54.13 | 50.23 | 446 | 2.37 | 1.06 | 24.4 |
| 4/16/2015 | 21:19:00 | 54.46 | 50.56 | 48 | 2.35 | 1.13 | 2.6 |
| 4/16/2015 | 21:19:03 | 54.79 | 50.89 | 93 | 2.42 | 1.33 | 5.1 |
| 4/16/2015 | 21:19:08 | 55.12 | 51.22 | 60 | 2.37 | 1.17 | 3.3 |
| 4/16/2015 | 21:19:09 | 55.45 | 51.55 | 223 | 2.37 | 1.15 | 12.2 |
| 4/16/2015 | 21:19:10 | 55.77 | 51.87 | 380 | 2.37 | 1.13 | 20.8 |
| 4/16/2015 | 21:19:11 | 56.10 | 52.20 | 384 | 2.42 | 1.21 | 21.0 |
| 4/16/2015 | 21:19:24 | 56.43 | 52.53 | 37 | 2.47 | 1.24 | 2.0 |
| 4/16/2015 | 21:20:10 | 56.76 | 52.86 | 50 | 2.52 | 1.41 | 2.7 |
| 4/16/2015 | 21:20:50 | 56.95 | 53.05 | 0 | 2.45 | 1.29 | 0.0 |

## B26 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 21:14:53

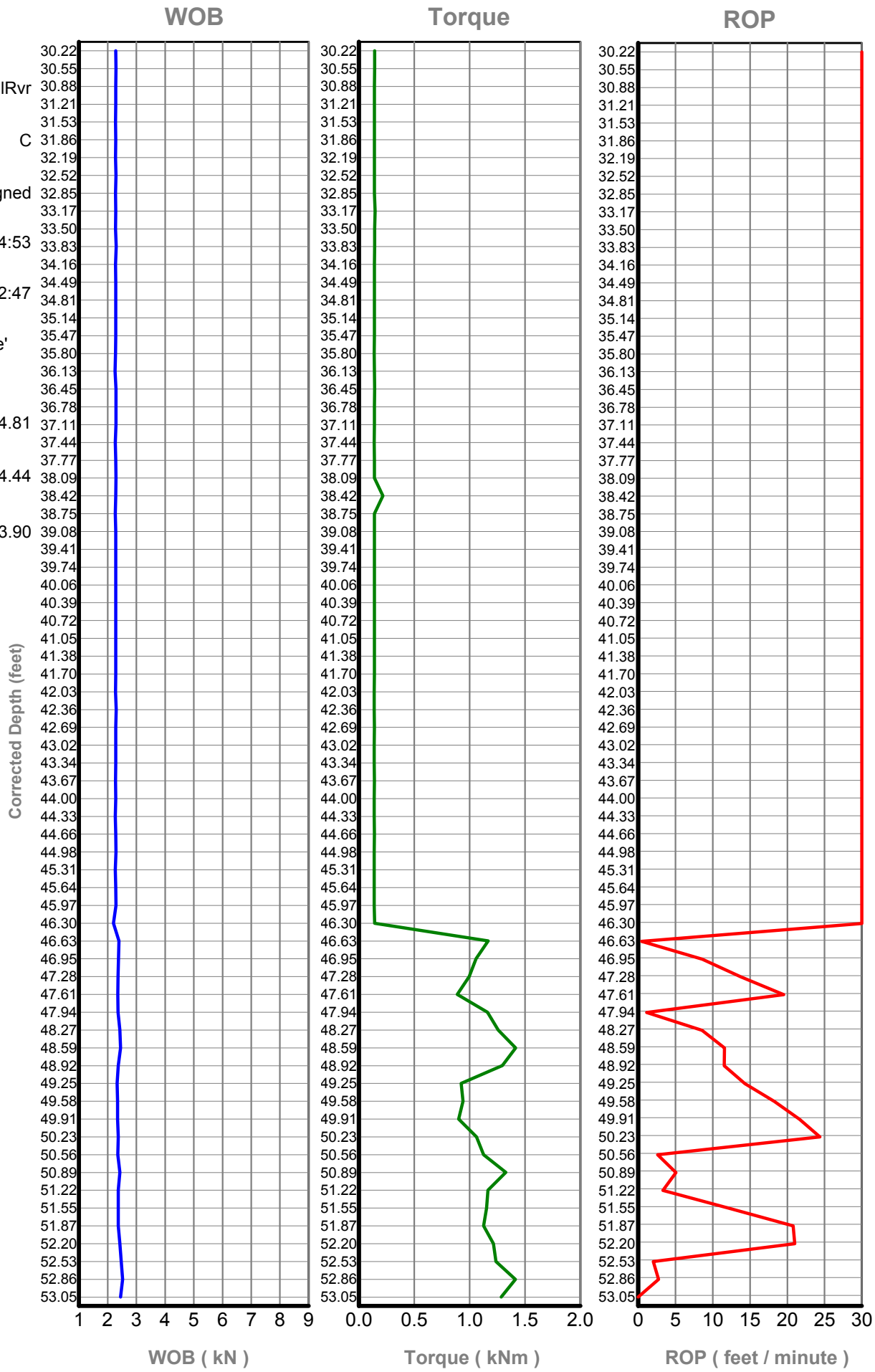
**End Date:**
4/16/2015 21:22:47

**Operator Note:**
'3.9 3.9 c Auto Complete'

**Northing:**
370,944.81

**Easting:**
259,874.44

**Tide (feet):**
3.90



## Hole: B27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 11:13:58 | 36.09 | 30.19 | 1,163 | 0.49 | 0.34 | 63.6 |
| 4/15/2015 11:13:58 | 36.42 | 30.52 | 1,163 | 0.49 | 0.34 | 63.6 |
| 4/15/2015 11:13:58 | 36.75 | 30.85 | 1,156 | 0.48 | 0.34 | 63.2 |
| 4/15/2015 11:13:59 | 37.07 | 31.17 | 1,156 | 0.48 | 0.34 | 63.2 |
| 4/15/2015 11:13:59 | 37.40 | 31.50 | 1,159 | 0.48 | 0.33 | 63.4 |
| 4/15/2015 11:13:59 | 37.73 | 31.83 | 1,159 | 0.48 | 0.33 | 63.4 |
| 4/15/2015 11:14:00 | 38.06 | 32.16 | 1,159 | 0.48 | 0.33 | 63.4 |
| 4/15/2015 11:14:00 | 38.39 | 32.49 | 1,159 | 0.48 | 0.34 | 63.4 |
| 4/15/2015 11:14:00 | 38.71 | 32.81 | 1,159 | 0.48 | 0.34 | 63.4 |
| 4/15/2015 11:14:00 | 39.04 | 33.14 | 1,150 | 0.48 | 0.34 | 62.9 |
| 4/15/2015 11:14:01 | 39.37 | 33.47 | 1,139 | 0.48 | 0.36 | 62.3 |
| 4/15/2015 11:14:01 | 39.70 | 33.80 | 1,139 | 0.48 | 0.36 | 62.3 |
| 4/15/2015 11:14:01 | 40.03 | 34.13 | 1,095 | 0.48 | 0.37 | 59.9 |
| 4/15/2015 11:14:02 | 40.35 | 34.45 | 1,028 | 0.48 | 0.37 | 56.2 |
| 4/15/2015 11:14:03 | 40.68 | 34.78 | 914 | 0.48 | 0.35 | 50.0 |
| 4/15/2015 11:14:03 | 41.01 | 35.11 | 826 | 0.48 | 0.33 | 45.2 |
| 4/15/2015 11:14:04 | 41.34 | 35.44 | 774 | 0.48 | 0.34 | 42.3 |
| 4/15/2015 11:14:04 | 41.67 | 35.77 | 760 | 0.48 | 0.34 | 41.6 |
| 4/15/2015 11:14:05 | 41.99 | 36.09 | 760 | 0.48 | 0.34 | 41.6 |
| 4/15/2015 11:14:05 | 42.32 | 36.42 | 778 | 0.48 | 0.34 | 42.5 |
| 4/15/2015 11:14:05 | 42.65 | 36.75 | 838 | 0.48 | 0.35 | 45.8 |
| 4/15/2015 11:14:06 | 42.98 | 37.08 | 869 | 0.48 | 0.34 | 47.5 |
| 4/15/2015 11:14:06 | 43.31 | 37.41 | 891 | 0.48 | 0.34 | 48.7 |
| 4/15/2015 11:14:07 | 43.64 | 37.74 | 891 | 0.48 | 0.34 | 48.7 |
| 4/15/2015 11:14:07 | 43.96 | 38.06 | 888 | 0.48 | 0.35 | 48.6 |
| 4/15/2015 11:14:07 | 44.29 | 38.39 | 888 | 0.48 | 0.35 | 48.6 |
| 4/15/2015 11:14:08 | 44.62 | 38.72 | 888 | 0.48 | 0.33 | 48.6 |
| 4/15/2015 11:14:08 | 44.95 | 39.05 | 888 | 0.48 | 0.33 | 48.6 |
| 4/15/2015 11:14:08 | 45.28 | 39.38 | 901 | 0.47 | 0.34 | 49.3 |
| 4/15/2015 11:14:09 | 45.60 | 39.70 | 888 | 0.48 | 0.34 | 48.5 |
| 4/15/2015 11:14:09 | 45.93 | 40.03 | 888 | 0.47 | 0.34 | 48.5 |
| 4/15/2015 11:14:10 | 46.26 | 40.36 | 882 | 0.47 | 0.34 | 48.2 |
| 4/15/2015 11:14:11 | 46.59 | 40.69 | 882 | 0.47 | 0.34 | 48.2 |
| 4/15/2015 11:14:10 | 46.92 | 41.02 | 867 | 0.47 | 0.35 | 47.4 |
| 4/15/2015 11:14:11 | 47.24 | 41.34 | 867 | 0.48 | 0.34 | 47.4 |
| 4/15/2015 11:14:11 | 47.57 | 41.67 | 874 | 0.30 | 0.34 | 47.8 |
| 4/15/2015 11:14:12 | 47.90 | 42.00 | 874 | 0.30 | 0.34 | 47.8 |
| 4/15/2015 11:14:12 | 48.23 | 42.33 | 869 | 0.47 | 0.35 | 47.5 |
| 4/15/2015 11:14:13 | 48.56 | 42.66 | 867 | 0.47 | 0.34 | 47.4 |
| 4/15/2015 11:14:13 | 48.88 | 42.98 | 862 | 0.47 | 0.34 | 47.1 |
| 4/15/2015 11:14:13 | 49.21 | 43.31 | 862 | 0.47 | 0.34 | 47.1 |
| 4/15/2015 11:14:14 | 49.54 | 43.64 | 862 | 0.47 | 0.35 | 47.1 |
| 4/15/2015 11:14:14 | 49.87 | 43.97 | 885 | 0.47 | 0.36 | 48.4 |
| 4/15/2015 11:14:15 | 50.20 | 44.30 | 852 | 0.47 | 0.36 | 46.6 |
| 4/15/2015 11:14:15 | 50.53 | 44.63 | 839 | 0.47 | 0.36 | 45.9 |
| 4/15/2015 11:14:16 | 50.85 | 44.95 | 818 | 0.47 | 0.36 | 44.7 |
| 4/15/2015 11:14:16 | 51.18 | 45.28 | 800 | 0.47 | 0.36 | 43.8 |
| 4/15/2015 11:14:17 | 51.51 | 45.61 | 770 | 0.47 | 0.36 | 42.1 |
| 4/15/2015 11:14:17 | 51.84 | 45.94 | 770 | 0.47 | 0.36 | 42.1 |
| 4/15/2015 11:14:17 | 52.17 | 46.27 | 762 | 0.48 | 0.36 | 41.6 |
| 4/15/2015 11:14:18 | 52.49 | 46.59 | 763 | 0.47 | 0.36 | 41.7 |
| 4/15/2015 11:14:18 | 52.82 | 46.92 | 760 | 0.47 | 0.35 | 41.6 |
| 4/15/2015 11:14:19 | 53.15 | 47.25 | 760 | 0.47 | 0.36 | 41.6 |
| 4/15/2015 11:14:19 | 53.48 | 47.58 | 746 | 0.47 | 0.36 | 40.8 |
| 4/15/2015 11:14:20 | 53.81 | 47.91 | 755 | 0.47 | 0.35 | 41.3 |
| 4/15/2015 11:14:20 | 54.13 | 48.23 | 758 | 0.47 | 0.35 | 41.4 |
| 4/15/2015 11:14:21 | 54.46 | 48.56 | 765 | 0.47 | 0.35 | 41.9 |
| 4/15/2015 11:14:21 | 54.79 | 48.89 | 765 | 0.47 | 0.36 | 41.9 |
| 4/15/2015 11:14:22 | 55.12 | 49.22 | 782 | 0.48 | 0.37 | 42.8 |
| 4/15/2015 11:14:23 | 55.45 | 49.55 | 738 | 0.37 | 0.12 | 40.4 |
| 4/15/2015 11:14:41 | 55.77 | 49.87 | 108 | 3.27 | 0.37 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 11:14:52 | 56.10 | 50.20 | 10 | 3.60 | 0.46 | 0.6 |
| 4/15/2015 | 11:15:01 | 56.43 | 50.53 | 72 | 3.92 | 0.49 | 3.9 |
| 4/15/2015 | 11:15:05 | 56.76 | 50.86 | 76 | 3.69 | 0.10 | 4.1 |
| 4/15/2015 | 11:15:07 | 57.09 | 51.19 | 139 | 3.86 | 0.50 | 7.6 |
| 4/15/2015 | 11:15:10 | 57.41 | 51.51 | 124 | 2.95 | 0.48 | 6.8 |
| 4/15/2015 | 11:15:10 | 57.74 | 51.84 | 147 | 2.73 | 0.47 | 8.0 |
| 4/15/2015 | 11:15:11 | 58.07 | 52.17 | 274 | 2.70 | 0.48 | 15.0 |
| 4/15/2015 | 11:15:14 | 58.40 | 52.50 | 46 | 2.73 | 0.49 | 2.5 |
| 4/15/2015 | 11:15:16 | 58.73 | 52.83 | 182 | 2.74 | 0.49 | 10.0 |
| 4/15/2015 | 11:15:17 | 59.06 | 53.16 | 313 | 2.76 | 0.48 | 17.1 |
| 4/15/2015 | 11:15:18 | 59.38 | 53.48 | 338 | 2.74 | 0.49 | 18.5 |
| 4/15/2015 | 11:15:19 | 59.71 | 53.81 | 313 | 2.71 | 0.51 | 17.1 |
| 4/15/2015 | 11:15:21 | 60.04 | 54.14 | 231 | 2.74 | 0.53 | 12.6 |
| 4/15/2015 | 11:15:23 | 60.37 | 54.47 | 186 | 2.88 | 0.49 | 10.2 |
| 4/15/2015 | 11:15:24 | 60.70 | 54.80 | 241 | 2.93 | 0.50 | 13.2 |
| 4/15/2015 | 11:15:26 | 60.99 | 55.09 | 219 | 2.82 | 0.11 | 11.9 |

## B27 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/15/2015 11:10:31

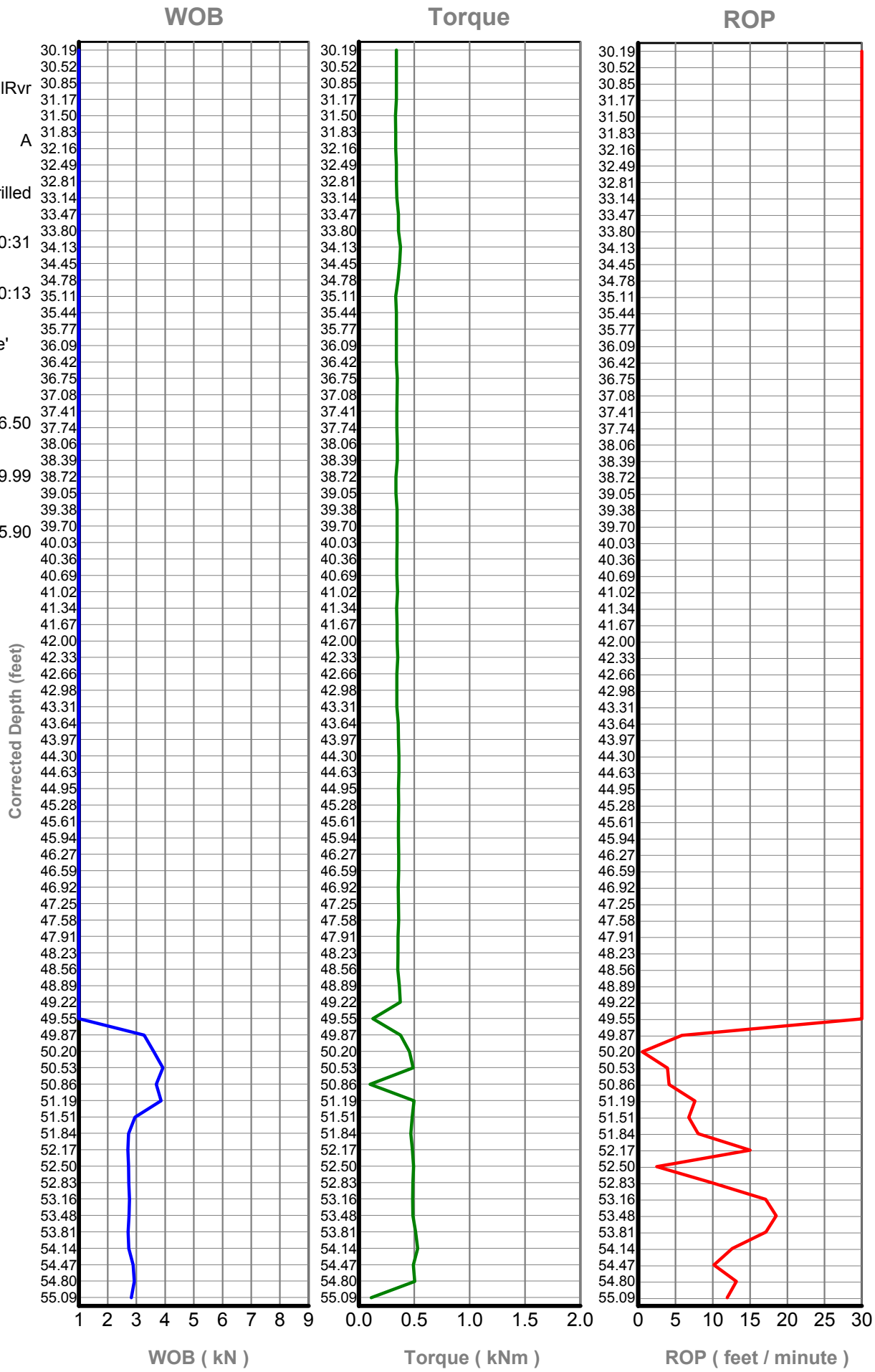
**End Date:**
4/15/2015 11:20:13

**Operator Note:**
'5.9 6.0 a Auto Complete'

**Northing:**
370,946.50

**Easting:**
259,939.99

**Tide (feet):**
5.90



## Hole: B28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:16:56 | 31.50 | 30.20 | 563 | 2.17 | 0.15 | 30.8 |
| 4/17/2015 8:16:56 | 31.82 | 30.52 | 554 | 2.17 | 0.15 | 30.3 |
| 4/17/2015 8:16:57 | 32.15 | 30.85 | 566 | 2.17 | 0.15 | 31.0 |
| 4/17/2015 8:16:57 | 32.48 | 31.18 | 561 | 2.16 | 0.15 | 30.7 |
| 4/17/2015 8:16:58 | 32.81 | 31.51 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:16:59 | 33.14 | 31.84 | 561 | 2.16 | 0.15 | 30.7 |
| 4/17/2015 8:16:59 | 33.46 | 32.16 | 564 | 2.16 | 0.15 | 30.8 |
| 4/17/2015 8:17:00 | 33.79 | 32.49 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:01 | 34.12 | 32.82 | 564 | 2.17 | 0.15 | 30.8 |
| 4/17/2015 8:17:01 | 34.45 | 33.15 | 564 | 2.17 | 0.15 | 30.8 |
| 4/17/2015 8:17:02 | 34.78 | 33.48 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:02 | 35.11 | 33.81 | 561 | 2.19 | 0.15 | 30.7 |
| 4/17/2015 8:17:03 | 35.43 | 34.13 | 557 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:04 | 35.76 | 34.46 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:04 | 36.09 | 34.79 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:05 | 36.42 | 35.12 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:06 | 36.75 | 35.45 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:07 | 37.07 | 35.77 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:07 | 37.40 | 36.10 | 557 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:08 | 37.73 | 36.43 | 561 | 2.16 | 0.15 | 30.7 |
| 4/17/2015 8:17:08 | 38.06 | 36.76 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:09 | 38.39 | 37.09 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:10 | 38.71 | 37.41 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:10 | 39.04 | 37.74 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:11 | 39.37 | 38.07 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:11 | 39.70 | 38.40 | 557 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:12 | 40.03 | 38.73 | 558 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:13 | 40.35 | 39.05 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:13 | 40.68 | 39.38 | 561 | 2.18 | 0.14 | 30.7 |
| 4/17/2015 8:17:14 | 41.01 | 39.71 | 561 | 2.17 | 0.15 | 30.7 |
| 4/17/2015 8:17:15 | 41.34 | 40.04 | 564 | 2.18 | 0.15 | 30.9 |
| 4/17/2015 8:17:16 | 41.67 | 40.37 | 555 | 2.17 | 0.15 | 30.3 |
| 4/17/2015 8:17:16 | 41.99 | 40.69 | 559 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:17 | 42.32 | 41.02 | 559 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:17 | 42.65 | 41.35 | 559 | 2.16 | 0.15 | 30.5 |
| 4/17/2015 8:17:18 | 42.98 | 41.68 | 565 | 2.21 | 0.15 | 30.9 |
| 4/17/2015 8:17:19 | 43.31 | 42.01 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:19 | 43.64 | 42.34 | 555 | 2.16 | 0.15 | 30.4 |
| 4/17/2015 8:17:20 | 43.96 | 42.66 | 551 | 2.16 | 0.15 | 30.2 |
| 4/17/2015 8:17:21 | 44.29 | 42.99 | 555 | 2.17 | 0.15 | 30.4 |
| 4/17/2015 8:17:21 | 44.62 | 43.32 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:22 | 44.95 | 43.65 | 558 | 2.17 | 0.15 | 30.5 |
| 4/17/2015 8:17:22 | 45.28 | 43.98 | 565 | 2.23 | 0.15 | 30.9 |
| 4/17/2015 8:17:23 | 45.60 | 44.30 | 555 | 2.19 | 0.15 | 30.4 |
| 4/17/2015 8:17:24 | 45.93 | 44.63 | 541 | 2.26 | 0.15 | 29.6 |
| 4/17/2015 8:17:27 | 46.26 | 44.96 | 113 | 2.33 | 0.15 | 6.2 |
| 4/17/2015 8:18:51 | 46.59 | 45.29 | 68 | 2.21 | 1.11 | 3.7 |
| 4/17/2015 8:18:52 | 46.92 | 45.62 | 145 | 2.22 | 1.25 | 7.9 |
| 4/17/2015 8:18:53 | 47.24 | 45.94 | 216 | 2.25 | 1.31 | 11.8 |
| 4/17/2015 8:18:54 | 47.57 | 46.27 | 330 | 2.23 | 1.27 | 18.0 |
| 4/17/2015 8:18:57 | 47.90 | 46.60 | 87 | 2.24 | 1.43 | 4.7 |
| 4/17/2015 8:18:58 | 48.23 | 46.93 | 164 | 2.26 | 1.15 | 9.0 |
| 4/17/2015 8:19:00 | 48.56 | 47.26 | 330 | 2.30 | 1.35 | 18.1 |
| 4/17/2015 8:19:01 | 48.88 | 47.58 | 335 | 2.31 | 1.26 | 18.3 |
| 4/17/2015 8:19:02 | 49.21 | 47.91 | 325 | 2.29 | 1.26 | 17.8 |
| 4/17/2015 8:19:03 | 49.54 | 48.24 | 333 | 2.34 | 1.29 | 18.2 |
| 4/17/2015 8:19:04 | 49.87 | 48.57 | 341 | 2.30 | 1.27 | 18.7 |
| 4/17/2015 8:19:05 | 50.20 | 48.90 | 350 | 2.29 | 1.21 | 19.1 |
| 4/17/2015 8:19:08 | 50.53 | 49.23 | 68 | 2.28 | 1.31 | 3.7 |
| 4/17/2015 8:19:09 | 50.85 | 49.55 | 115 | 2.27 | 1.18 | 6.3 |
| 4/17/2015 8:19:11 | 51.18 | 49.88 | 236 | 2.33 | 1.24 | 12.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:19:26 | 51.51 | 50.21 | 61 | 2.38 | 1.30 | 3.3 |
| 4/17/2015 | 8:19:33 | 51.84 | 50.54 | 35 | 2.44 | 1.21 | 1.9 |
| 4/17/2015 | 8:19:44 | 52.17 | 50.87 | 32 | 2.42 | 1.27 | 1.7 |
| 4/17/2015 | 8:19:54 | 52.49 | 51.19 | 45 | 2.43 | 1.31 | 2.5 |
| 4/17/2015 | 8:20:04 | 52.82 | 51.52 | 29 | 2.38 | 1.20 | 1.6 |
| 4/17/2015 | 8:20:06 | 52.90 | 51.60 | 32 | 2.41 | 1.23 | 1.7 |

## B28 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:14:51

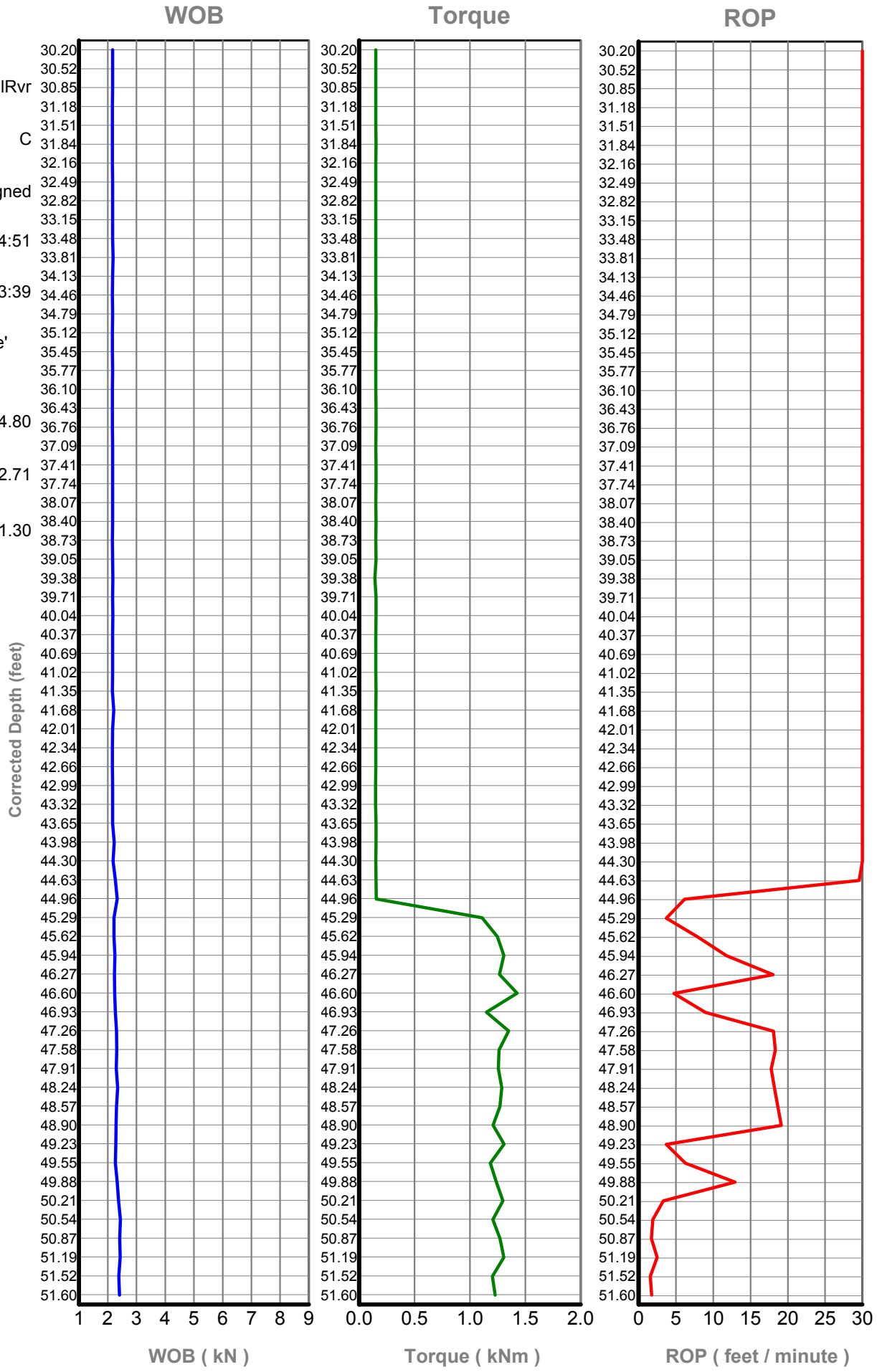
**End Date:**
4/17/2015 8:23:39

**Operator Note:**
'1.3 1.0 c Auto Complete'

**Northing:**
370,884.80

**Easting:**
259,422.71

**Tide (feet):**
1.30



## Hole: B29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 2:08:39 | 34.78 | 30.08 | 1,142 | 0.56 | 0.37 | 62.4 |
| 4/17/2015 2:08:39 | 35.11 | 30.41 | 1,142 | 0.56 | 0.37 | 62.4 |
| 4/17/2015 2:08:39 | 35.43 | 30.73 | 1,139 | 0.56 | 0.37 | 62.3 |
| 4/17/2015 2:08:40 | 35.76 | 31.06 | 1,139 | 0.56 | 0.37 | 62.3 |
| 4/17/2015 2:08:40 | 36.09 | 31.39 | 1,139 | 0.56 | 0.36 | 62.3 |
| 4/17/2015 2:08:40 | 36.42 | 31.72 | 1,139 | 0.56 | 0.36 | 62.3 |
| 4/17/2015 2:08:41 | 36.75 | 32.05 | 1,139 | 0.56 | 0.36 | 62.3 |
| 4/17/2015 2:08:41 | 37.07 | 32.37 | 1,145 | 0.56 | 0.36 | 62.6 |
| 4/17/2015 2:08:41 | 37.40 | 32.70 | 1,145 | 0.56 | 0.36 | 62.6 |
| 4/17/2015 2:08:41 | 37.73 | 33.03 | 1,145 | 0.57 | 0.36 | 62.6 |
| 4/17/2015 2:08:42 | 38.06 | 33.36 | 1,148 | 0.56 | 0.37 | 62.8 |
| 4/17/2015 2:08:42 | 38.39 | 33.69 | 1,148 | 0.56 | 0.37 | 62.8 |
| 4/17/2015 2:08:42 | 38.71 | 34.01 | 1,144 | 0.57 | 0.36 | 62.5 |
| 4/17/2015 2:08:43 | 39.04 | 34.34 | 1,144 | 0.57 | 0.36 | 62.5 |
| 4/17/2015 2:08:43 | 39.37 | 34.67 | 1,153 | 0.57 | 0.36 | 63.1 |
| 4/17/2015 2:08:43 | 39.70 | 35.00 | 1,153 | 0.56 | 0.37 | 63.1 |
| 4/17/2015 2:08:44 | 40.03 | 35.33 | 1,153 | 0.56 | 0.37 | 63.1 |
| 4/17/2015 2:08:44 | 40.35 | 35.65 | 1,156 | 0.56 | 0.37 | 63.2 |
| 4/17/2015 2:08:44 | 40.68 | 35.98 | 1,156 | 0.56 | 0.37 | 63.2 |
| 4/17/2015 2:08:44 | 41.01 | 36.31 | 1,153 | 0.56 | 0.36 | 63.1 |
| 4/17/2015 2:08:45 | 41.34 | 36.64 | 1,151 | 0.56 | 0.37 | 62.9 |
| 4/17/2015 2:08:45 | 41.67 | 36.97 | 1,151 | 0.56 | 0.37 | 62.9 |
| 4/17/2015 2:08:46 | 41.99 | 37.29 | 1,148 | 0.57 | 0.36 | 62.8 |
| 4/17/2015 2:08:46 | 42.32 | 37.62 | 1,148 | 0.57 | 0.36 | 62.8 |
| 4/17/2015 2:08:46 | 42.65 | 37.95 | 1,148 | 0.56 | 0.36 | 62.8 |
| 4/17/2015 2:08:47 | 42.98 | 38.28 | 1,148 | 0.56 | 0.36 | 62.8 |
| 4/17/2015 2:08:47 | 43.31 | 38.61 | 1,141 | 0.56 | 0.37 | 62.4 |
| 4/17/2015 2:08:47 | 43.64 | 38.94 | 1,150 | 0.56 | 0.37 | 62.9 |
| 4/17/2015 2:08:48 | 43.96 | 39.26 | 1,150 | 0.56 | 0.37 | 62.9 |
| 4/17/2015 2:08:48 | 44.29 | 39.59 | 1,150 | 0.56 | 0.36 | 62.9 |
| 4/17/2015 2:08:48 | 44.62 | 39.92 | 1,150 | 0.56 | 0.36 | 62.9 |
| 4/17/2015 2:08:48 | 44.95 | 40.25 | 1,141 | 0.50 | 0.37 | 62.4 |
| 4/17/2015 2:08:49 | 45.28 | 40.58 | 1,148 | 0.56 | 0.36 | 62.8 |
| 4/17/2015 2:08:49 | 45.60 | 40.90 | 1,148 | 0.56 | 0.36 | 62.8 |
| 4/17/2015 2:08:49 | 45.93 | 41.23 | 1,158 | 0.56 | 0.36 | 63.3 |
| 4/17/2015 2:08:50 | 46.26 | 41.56 | 1,158 | 0.56 | 0.36 | 63.3 |
| 4/17/2015 2:08:50 | 46.59 | 41.89 | 1,145 | 0.57 | 0.37 | 62.6 |
| 4/17/2015 2:08:50 | 46.92 | 42.22 | 1,142 | 0.56 | 0.36 | 62.5 |
| 4/17/2015 2:08:51 | 47.24 | 42.54 | 1,142 | 0.56 | 0.36 | 62.5 |
| 4/17/2015 2:08:51 | 47.57 | 42.87 | 1,145 | 0.57 | 0.36 | 62.6 |
| 4/17/2015 2:08:51 | 47.90 | 43.20 | 1,145 | 0.57 | 0.36 | 62.6 |
| 4/17/2015 2:08:51 | 48.23 | 43.53 | 1,145 | 0.56 | 0.36 | 62.6 |
| 4/17/2015 2:08:52 | 48.56 | 43.86 | 1,132 | 0.57 | 0.37 | 61.9 |
| 4/17/2015 2:08:52 | 48.88 | 44.18 | 1,132 | 0.57 | 0.37 | 61.9 |
| 4/17/2015 2:08:52 | 49.21 | 44.51 | 1,139 | 0.56 | 0.41 | 62.3 |
| 4/17/2015 2:09:08 | 49.54 | 44.84 | 0 | 4.85 | 0.45 | 0.0 |
| 4/17/2015 2:09:11 | 49.87 | 45.17 | 81 | 4.53 | 0.50 | 4.4 |
| 4/17/2015 2:09:14 | 50.20 | 45.50 | 70 | 4.81 | 0.50 | 3.8 |
| 4/17/2015 2:09:21 | 50.53 | 45.83 | 0 | 3.56 | 0.46 | 0.0 |
| 4/17/2015 2:09:23 | 50.85 | 46.15 | 209 | 5.12 | 0.57 | 11.4 |
| 4/17/2015 2:09:30 | 51.18 | 46.48 | 0 | 5.25 | 0.44 | 0.0 |
| 4/17/2015 2:09:31 | 51.51 | 46.81 | 109 | 4.63 | 0.52 | 5.9 |
| 4/17/2015 2:09:32 | 51.84 | 47.14 | 245 | 3.85 | 0.46 | 13.4 |
| 4/17/2015 2:09:33 | 52.17 | 47.47 | 330 | 4.36 | 0.47 | 18.1 |
| 4/17/2015 2:09:34 | 52.49 | 47.79 | 361 | 4.75 | 0.52 | 19.8 |
| 4/17/2015 2:09:36 | 52.82 | 48.12 | 191 | 4.87 | 0.56 | 10.5 |
| 4/17/2015 2:09:41 | 53.15 | 48.45 | 64 | 4.57 | 0.44 | 3.5 |
| 4/17/2015 2:09:42 | 53.48 | 48.78 | 163 | 5.65 | 0.57 | 8.9 |
| 4/17/2015 2:09:45 | 53.81 | 49.11 | 100 | 5.17 | 0.57 | 5.5 |
| 4/17/2015 2:09:47 | 54.13 | 49.43 | 238 | 4.72 | 0.55 | 13.0 |
| 4/17/2015 2:09:50 | 54.46 | 49.76 | 125 | 4.20 | 0.45 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 2:09:51 | 54.79 | 50.09 | 209 | 5.19 | 0.56 | 11.4 |
| 4/17/2015 | 2:09:54 | 55.12 | 50.42 | 105 | 4.55 | 0.59 | 5.7 |
| 4/17/2015 | 2:10:00 | 55.45 | 50.75 | 23 | 4.41 | 0.47 | 1.3 |
| 4/17/2015 | 2:10:01 | 55.77 | 51.07 | 136 | 5.36 | 0.55 | 7.4 |
| 4/17/2015 | 2:10:03 | 56.10 | 51.40 | 107 | 4.83 | 0.45 | 5.8 |
| 4/17/2015 | 2:10:05 | 56.43 | 51.73 | 185 | 4.63 | 0.47 | 10.1 |
| 4/17/2015 | 2:10:08 | 56.76 | 52.06 | 54 | 4.76 | 0.47 | 3.0 |
| 4/17/2015 | 2:10:13 | 57.09 | 52.39 | 49 | 4.46 | 0.50 | 2.7 |
| 4/17/2015 | 2:10:16 | 57.41 | 52.71 | 101 | 5.12 | 0.47 | 5.5 |
| 4/17/2015 | 2:10:18 | 57.74 | 53.04 | 141 | 4.72 | 0.48 | 7.7 |
| 4/17/2015 | 2:10:20 | 58.07 | 53.37 | 185 | 4.19 | 0.54 | 10.1 |
| 4/17/2015 | 2:10:25 | 58.40 | 53.70 | 43 | 3.85 | 0.51 | 2.4 |
| 4/17/2015 | 2:10:30 | 58.73 | 54.03 | 55 | 4.73 | 0.51 | 3.0 |
| 4/17/2015 | 2:10:38 | 59.06 | 54.36 | 57 | 3.86 | 0.53 | 3.1 |
| 4/17/2015 | 2:10:45 | 59.38 | 54.68 | 52 | 4.71 | 0.53 | 2.8 |
| 4/17/2015 | 2:10:51 | 59.71 | 55.01 | 58 | 5.14 | 0.50 | 3.2 |
| 4/17/2015 | 2:10:56 | 60.04 | 55.34 | 81 | 5.11 | 0.51 | 4.4 |

## B29 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 2:04:42

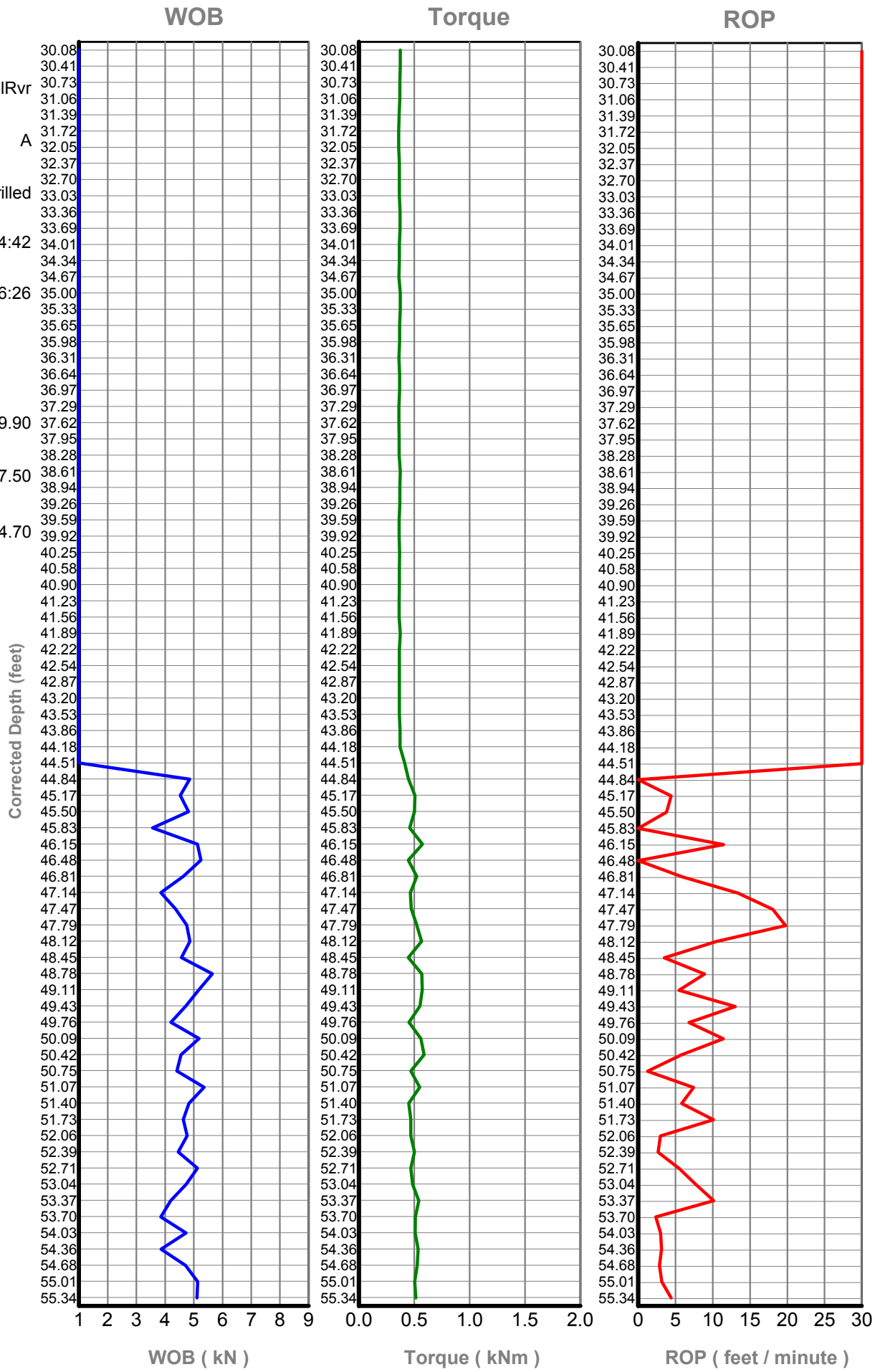
**End Date:**
4/17/2015 2:16:26

**Operator Note:**
'4.7 5 a Auto Complete'

**Northing:**
370,879.90

**Easting:**
259,487.50

**Tide (feet):**
4.70



## Hole: B3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:28:17 | 33.46 | 30.26 | 1,023 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 3:28:17 | 33.79 | 30.59 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 3:28:17 | 34.12 | 30.92 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:18 | 34.45 | 31.25 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:18 | 34.78 | 31.58 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:18 | 35.11 | 31.91 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:19 | 35.43 | 32.23 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:19 | 35.76 | 32.56 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 3:28:19 | 36.09 | 32.89 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 3:28:20 | 36.42 | 33.22 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:20 | 36.75 | 33.55 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:20 | 37.07 | 33.87 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 3:28:21 | 37.40 | 34.20 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:21 | 37.73 | 34.53 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:21 | 38.06 | 34.86 | 994 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 3:28:22 | 38.39 | 35.19 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:22 | 38.71 | 35.51 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:22 | 39.04 | 35.84 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 3:28:23 | 39.37 | 36.17 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:23 | 39.70 | 36.50 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:23 | 40.03 | 36.83 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 3:28:24 | 40.35 | 37.15 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 3:28:24 | 40.68 | 37.48 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 3:28:24 | 41.01 | 37.81 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 3:28:25 | 41.34 | 38.14 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 3:28:25 | 41.67 | 38.47 | 1,003 | 0.29 | 0.42 | 54.8 |
| 4/17/2015 3:28:25 | 41.99 | 38.79 | 998 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 3:28:26 | 42.32 | 39.12 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 3:28:26 | 42.65 | 39.45 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 3:28:27 | 42.98 | 39.78 | 989 | 0.29 | 0.42 | 54.1 |
| 4/17/2015 3:28:27 | 43.31 | 40.11 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 3:28:28 | 43.64 | 40.44 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 3:28:28 | 43.96 | 40.76 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 3:28:28 | 44.29 | 41.09 | 992 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 3:28:29 | 44.62 | 41.42 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 3:28:29 | 44.95 | 41.75 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 3:28:29 | 45.28 | 42.08 | 990 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 3:28:30 | 45.60 | 42.40 | 990 | 0.29 | 0.42 | 54.2 |
| 4/17/2015 3:28:30 | 45.93 | 42.73 | 987 | 0.29 | 0.42 | 54.0 |
| 4/17/2015 3:28:31 | 46.26 | 43.06 | 987 | 0.29 | 0.42 | 54.0 |
| 4/17/2015 3:28:31 | 46.59 | 43.39 | 993 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 3:28:31 | 46.92 | 43.72 | 994 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 3:28:32 | 47.24 | 44.04 | 994 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 3:28:32 | 47.57 | 44.37 | 993 | 0.29 | 0.42 | 54.3 |
| 4/17/2015 3:28:32 | 47.90 | 44.70 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:33 | 48.23 | 45.03 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 3:28:33 | 48.56 | 45.36 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 3:28:43 | 48.88 | 45.68 | 38 | 0.29 | 0.42 | 2.1 |
| 4/17/2015 3:28:45 | 49.21 | 46.01 | 145 | 0.29 | 0.42 | 7.9 |
| 4/17/2015 3:28:51 | 49.54 | 46.34 | 50 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 3:28:55 | 49.87 | 46.67 | 78 | 0.29 | 0.42 | 4.2 |
| 4/17/2015 3:28:59 | 50.20 | 47.00 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 3:29:02 | 50.53 | 47.33 | 135 | 0.29 | 0.42 | 7.4 |
| 4/17/2015 3:29:05 | 50.85 | 47.65 | 131 | 0.29 | 0.42 | 7.1 |
| 4/17/2015 3:29:06 | 51.18 | 47.98 | 194 | 0.29 | 0.42 | 10.6 |
| 4/17/2015 3:29:07 | 51.51 | 48.31 | 310 | 0.29 | 0.42 | 16.9 |
| 4/17/2015 3:29:07 | 51.84 | 48.64 | 375 | 0.29 | 0.42 | 20.5 |
| 4/17/2015 3:29:09 | 52.17 | 48.97 | 265 | 0.29 | 0.42 | 14.5 |
| 4/17/2015 3:29:10 | 52.49 | 49.29 | 253 | 0.29 | 0.42 | 13.8 |
| 4/17/2015 3:29:11 | 52.82 | 49.62 | 259 | 0.29 | 0.42 | 14.2 |
| 4/17/2015 3:29:15 | 53.15 | 49.95 | 72 | 0.29 | 0.42 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:29:16 | 53.48 | 50.28 | 207 | 0.29 | 0.42 | 11.3 |
| 4/17/2015 | 3:29:17 | 53.81 | 50.61 | 285 | 0.29 | 0.42 | 15.6 |
| 4/17/2015 | 3:29:18 | 54.13 | 50.93 | 312 | 0.29 | 0.42 | 17.1 |
| 4/17/2015 | 3:29:19 | 54.46 | 51.26 | 322 | 0.29 | 0.42 | 17.6 |
| 4/17/2015 | 3:29:21 | 54.79 | 51.59 | 259 | 0.29 | 0.42 | 14.2 |
| 4/17/2015 | 3:29:23 | 55.12 | 51.92 | 180 | 0.29 | 0.42 | 9.9 |
| 4/17/2015 | 3:29:25 | 55.45 | 52.25 | 166 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 | 3:29:28 | 55.77 | 52.57 | 128 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 3:29:32 | 56.10 | 52.90 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 3:29:36 | 56.43 | 53.23 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 3:29:42 | 56.76 | 53.56 | 61 | 0.29 | 0.42 | 3.3 |
| 4/17/2015 | 3:29:54 | 57.09 | 53.89 | 49 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 3:30:03 | 57.41 | 54.21 | 32 | 0.29 | 0.42 | 1.7 |
| 4/17/2015 | 3:31:59 | 57.74 | 54.54 | 0 | 0.29 | 0.42 | 0.0 |

## B3 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:24:40

**End Date:**
4/17/2015 3:36:34

**Operator Note:**
'3.2 3.6 b Auto Complete'

**Northing:**
371,106.59

**Easting:**
259,569.12

**Tide (feet):**
3.20



## Hole: B30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 1:48:02 | 35.43 | 30.23 | 811 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 1:48:03 | 35.76 | 30.56 | 809 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:03 | 36.09 | 30.89 | 811 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 1:48:04 | 36.42 | 31.22 | 808 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:04 | 36.75 | 31.55 | 804 | 0.29 | 0.42 | 43.9 |
| 4/17/2015 1:48:05 | 37.07 | 31.87 | 808 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:05 | 37.40 | 32.20 | 808 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:05 | 37.73 | 32.53 | 805 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:06 | 38.06 | 32.86 | 805 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:06 | 38.39 | 33.19 | 806 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:07 | 38.71 | 33.51 | 805 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:07 | 39.04 | 33.84 | 806 | 0.29 | 0.42 | 44.1 |
| 4/17/2015 1:48:08 | 39.37 | 34.17 | 804 | 0.29 | 0.42 | 43.9 |
| 4/17/2015 1:48:09 | 39.70 | 34.50 | 804 | 0.29 | 0.42 | 43.9 |
| 4/17/2015 1:48:09 | 40.03 | 34.83 | 809 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:09 | 40.35 | 35.15 | 811 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 1:48:10 | 40.68 | 35.48 | 812 | 0.29 | 0.42 | 44.4 |
| 4/17/2015 1:48:10 | 41.01 | 35.81 | 808 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:11 | 41.34 | 36.14 | 806 | 0.29 | 0.42 | 44.1 |
| 4/17/2015 1:48:11 | 41.67 | 36.47 | 805 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:12 | 41.99 | 36.79 | 805 | 0.29 | 0.42 | 44.0 |
| 4/17/2015 1:48:12 | 42.32 | 37.12 | 801 | 0.29 | 0.42 | 43.8 |
| 4/17/2015 1:48:12 | 42.65 | 37.45 | 809 | 0.29 | 0.42 | 44.2 |
| 4/17/2015 1:48:13 | 42.98 | 37.78 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:13 | 43.31 | 38.11 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:14 | 43.64 | 38.44 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:14 | 43.96 | 38.76 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:14 | 44.29 | 39.09 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:15 | 44.62 | 39.42 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:15 | 44.95 | 39.75 | 809 | 0.29 | 0.42 | 44.3 |
| 4/17/2015 1:48:16 | 45.28 | 40.08 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 1:48:16 | 45.60 | 40.40 | 809 | 0.29 | 0.42 | 44.3 |
| 4/17/2015 1:48:17 | 45.93 | 40.73 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 1:48:17 | 46.26 | 41.06 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 1:48:17 | 46.59 | 41.39 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 1:48:18 | 46.92 | 41.72 | 817 | 0.29 | 0.42 | 44.7 |
| 4/17/2015 1:48:18 | 47.24 | 42.04 | 814 | 0.29 | 0.42 | 44.5 |
| 4/17/2015 1:48:19 | 47.57 | 42.37 | 820 | 0.29 | 0.42 | 44.8 |
| 4/17/2015 1:48:20 | 47.90 | 42.70 | 823 | 0.29 | 0.42 | 45.0 |
| 4/17/2015 1:48:20 | 48.23 | 43.03 | 823 | 0.29 | 0.42 | 45.0 |
| 4/17/2015 1:48:20 | 48.56 | 43.36 | 821 | 0.29 | 0.42 | 44.9 |
| 4/17/2015 1:48:21 | 48.88 | 43.68 | 823 | 0.29 | 0.42 | 45.0 |
| 4/17/2015 1:48:21 | 49.21 | 44.01 | 829 | 0.29 | 0.42 | 45.3 |
| 4/17/2015 1:48:22 | 49.54 | 44.34 | 826 | 0.29 | 0.42 | 45.1 |
| 4/17/2015 1:48:22 | 49.87 | 44.67 | 820 | 0.29 | 0.42 | 44.8 |
| 4/17/2015 1:49:06 | 50.20 | 45.00 | 71 | 0.29 | 0.42 | 3.9 |
| 4/17/2015 1:49:09 | 50.53 | 45.33 | 140 | 0.29 | 0.42 | 7.6 |
| 4/17/2015 1:49:23 | 50.85 | 45.65 | 17 | 0.29 | 0.42 | 0.9 |
| 4/17/2015 1:49:33 | 51.18 | 45.98 | 44 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 1:49:35 | 51.51 | 46.31 | 168 | 0.29 | 0.42 | 9.2 |
| 4/17/2015 1:49:35 | 51.84 | 46.64 | 215 | 0.29 | 0.42 | 11.8 |
| 4/17/2015 1:49:38 | 52.17 | 46.97 | 237 | 0.29 | 0.42 | 13.0 |
| 4/17/2015 1:49:40 | 52.49 | 47.29 | 167 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 1:49:41 | 52.82 | 47.62 | 209 | 0.29 | 0.42 | 11.4 |
| 4/17/2015 1:49:44 | 53.15 | 47.95 | 160 | 0.29 | 0.42 | 8.8 |
| 4/17/2015 1:49:46 | 53.48 | 48.28 | 184 | 0.29 | 0.42 | 10.1 |
| 4/17/2015 1:49:48 | 53.81 | 48.61 | 179 | 0.29 | 0.42 | 9.8 |
| 4/17/2015 1:49:49 | 54.13 | 48.93 | 195 | 0.29 | 0.42 | 10.7 |
| 4/17/2015 1:49:52 | 54.46 | 49.26 | 182 | 0.29 | 0.42 | 10.0 |
| 4/17/2015 1:49:56 | 54.79 | 49.59 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 1:50:00 | 55.12 | 49.92 | 98 | 0.29 | 0.42 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 1:50:07 | 55.45 | 50.25 | 43 | 0.29 | 0.42 | 2.4 |
| 4/17/2015 | 1:50:15 | 55.77 | 50.57 | 58 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 | 1:50:19 | 56.10 | 50.90 | 87 | 0.29 | 0.42 | 4.7 |
| 4/17/2015 | 1:50:29 | 56.43 | 51.23 | 26 | 0.29 | 0.42 | 1.4 |
| 4/17/2015 | 1:50:46 | 56.76 | 51.56 | 29 | 0.29 | 0.42 | 1.6 |
| 4/17/2015 | 1:50:59 | 57.09 | 51.89 | 32 | 0.29 | 0.42 | 1.8 |
| 4/17/2015 | 1:51:03 | 57.21 | 52.01 | 32 | 0.29 | 0.42 | 1.7 |

## B30 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 1:44:01

**End Date:**
4/17/2015 1:53:56

**Operator Note:**
'5.2 5.4 b Auto Complete'

**Northing:**
370,879.20

**Easting:**
259,562.30

**Tide (feet):**
5.20



## Hole: B31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 1:56:23 | 35.11 | 30.21 | 583 | 2.18 | 0.16 | 31.9 |
| 4/17/2015 1:56:24 | 35.43 | 30.53 | 583 | 2.18 | 0.17 | 31.9 |
| 4/17/2015 1:56:24 | 35.76 | 30.86 | 595 | 2.18 | 0.16 | 32.5 |
| 4/17/2015 1:56:25 | 36.09 | 31.19 | 595 | 2.18 | 0.14 | 32.6 |
| 4/17/2015 1:56:26 | 36.42 | 31.52 | 589 | 2.17 | 0.17 | 32.2 |
| 4/17/2015 1:56:26 | 36.75 | 31.85 | 608 | 2.18 | 0.16 | 33.2 |
| 4/17/2015 1:56:27 | 37.07 | 32.17 | 599 | 2.19 | 0.16 | 32.8 |
| 4/17/2015 1:56:28 | 37.40 | 32.50 | 598 | 2.19 | 0.16 | 32.7 |
| 4/17/2015 1:56:28 | 37.73 | 32.83 | 598 | 2.18 | 0.17 | 32.7 |
| 4/17/2015 1:56:29 | 38.06 | 33.16 | 605 | 2.18 | 0.17 | 33.1 |
| 4/17/2015 1:56:29 | 38.39 | 33.49 | 601 | 2.17 | 0.16 | 32.9 |
| 4/17/2015 1:56:30 | 38.71 | 33.81 | 598 | 2.18 | 0.16 | 32.7 |
| 4/17/2015 1:56:31 | 39.04 | 34.14 | 604 | 2.18 | 0.16 | 33.0 |
| 4/17/2015 1:56:31 | 39.37 | 34.47 | 598 | 2.18 | 0.16 | 32.7 |
| 4/17/2015 1:56:32 | 39.70 | 34.80 | 598 | 2.18 | 0.16 | 32.7 |
| 4/17/2015 1:56:32 | 40.03 | 35.13 | 601 | 2.19 | 0.16 | 32.9 |
| 4/17/2015 1:56:33 | 40.35 | 35.45 | 605 | 2.18 | 0.16 | 33.1 |
| 4/17/2015 1:56:33 | 40.68 | 35.78 | 601 | 2.18 | 0.16 | 32.9 |
| 4/17/2015 1:56:34 | 41.01 | 36.11 | 597 | 2.17 | 0.16 | 32.7 |
| 4/17/2015 1:56:35 | 41.34 | 36.44 | 605 | 2.18 | 0.16 | 33.1 |
| 4/17/2015 1:56:35 | 41.67 | 36.77 | 598 | 2.19 | 0.16 | 32.7 |
| 4/17/2015 1:56:36 | 41.99 | 37.09 | 602 | 2.18 | 0.16 | 32.9 |
| 4/17/2015 1:56:36 | 42.32 | 37.42 | 602 | 2.18 | 0.16 | 32.9 |
| 4/17/2015 1:56:37 | 42.65 | 37.75 | 609 | 2.18 | 0.16 | 33.3 |
| 4/17/2015 1:56:37 | 42.98 | 38.08 | 598 | 2.17 | 0.16 | 32.7 |
| 4/17/2015 1:56:39 | 43.31 | 38.41 | 598 | 2.19 | 0.16 | 32.7 |
| 4/17/2015 1:56:39 | 43.64 | 38.74 | 601 | 2.17 | 0.16 | 32.9 |
| 4/17/2015 1:56:40 | 43.96 | 39.06 | 598 | 2.18 | 0.16 | 32.7 |
| 4/17/2015 1:56:40 | 44.29 | 39.39 | 598 | 2.18 | 0.15 | 32.7 |
| 4/17/2015 1:56:41 | 44.62 | 39.72 | 591 | 2.17 | 0.16 | 32.3 |
| 4/17/2015 1:56:41 | 44.95 | 40.05 | 602 | 2.18 | 0.16 | 32.9 |
| 4/17/2015 1:56:42 | 45.28 | 40.38 | 599 | 2.19 | 0.16 | 32.7 |
| 4/17/2015 1:56:43 | 45.60 | 40.70 | 599 | 2.19 | 0.16 | 32.7 |
| 4/17/2015 1:56:43 | 45.93 | 41.03 | 602 | 2.18 | 0.16 | 32.9 |
| 4/17/2015 1:56:44 | 46.26 | 41.36 | 595 | 2.18 | 0.17 | 32.6 |
| 4/17/2015 1:56:44 | 46.59 | 41.69 | 598 | 2.17 | 0.16 | 32.7 |
| 4/17/2015 1:56:45 | 46.92 | 42.02 | 582 | 2.17 | 0.16 | 31.9 |
| 4/17/2015 1:56:45 | 47.24 | 42.34 | 582 | 2.17 | 0.16 | 31.9 |
| 4/17/2015 1:56:46 | 47.57 | 42.67 | 593 | 2.19 | 0.16 | 32.4 |
| 4/17/2015 1:56:47 | 47.90 | 43.00 | 593 | 2.18 | 0.16 | 32.4 |
| 4/17/2015 1:56:47 | 48.23 | 43.33 | 587 | 2.18 | 0.16 | 32.1 |
| 4/17/2015 1:56:48 | 48.56 | 43.66 | 587 | 2.18 | 0.16 | 32.1 |
| 4/17/2015 1:56:49 | 48.88 | 43.98 | 604 | 2.18 | 0.16 | 33.0 |
| 4/17/2015 1:56:49 | 49.21 | 44.31 | 587 | 2.17 | 0.16 | 32.1 |
| 4/17/2015 1:56:50 | 49.54 | 44.64 | 587 | 2.18 | 0.16 | 32.1 |
| 4/17/2015 1:56:51 | 49.87 | 44.97 | 593 | 2.19 | 0.16 | 32.4 |
| 4/17/2015 1:56:51 | 50.20 | 45.30 | 593 | 2.25 | 0.16 | 32.5 |
| 4/17/2015 1:57:18 | 50.53 | 45.63 | 0 | 2.25 | 1.15 | 0.0 |
| 4/17/2015 1:57:20 | 50.85 | 45.95 | 113 | 2.24 | 1.34 | 6.2 |
| 4/17/2015 1:57:20 | 51.18 | 46.28 | 187 | 2.22 | 1.23 | 10.2 |
| 4/17/2015 1:57:24 | 51.51 | 46.61 | 49 | 2.21 | 1.20 | 2.7 |
| 4/17/2015 1:57:27 | 51.84 | 46.94 | 147 | 2.31 | 1.31 | 8.0 |
| 4/17/2015 1:57:28 | 52.17 | 47.27 | 112 | 2.27 | 1.30 | 6.1 |
| 4/17/2015 1:57:29 | 52.49 | 47.59 | 181 | 2.25 | 1.20 | 9.9 |
| 4/17/2015 1:57:30 | 52.82 | 47.92 | 252 | 2.23 | 1.21 | 13.8 |
| 4/17/2015 1:57:31 | 53.15 | 48.25 | 346 | 2.24 | 1.24 | 18.9 |
| 4/17/2015 1:57:32 | 53.48 | 48.58 | 352 | 2.25 | 1.17 | 19.3 |
| 4/17/2015 1:57:41 | 53.81 | 48.91 | 3 | 2.26 | 1.19 | 0.2 |
| 4/17/2015 1:57:50 | 54.13 | 49.23 | 0 | 2.31 | 1.41 | 0.0 |
| 4/17/2015 1:57:59 | 54.46 | 49.56 | 0 | 2.29 | 1.23 | 0.0 |
| 4/17/2015 1:58:06 | 54.79 | 49.89 | 0 | 2.25 | 1.27 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 1:58:08 | 55.12 | 50.22 | 124 | 2.35 | 1.35 | 6.8 |
| 4/17/2015 | 1:58:11 | 55.45 | 50.55 | 113 | 2.36 | 1.30 | 6.2 |
| 4/17/2015 | 1:58:15 | 55.77 | 50.87 | 92 | 2.36 | 1.25 | 5.0 |
| 4/17/2015 | 1:58:20 | 56.10 | 51.20 | 70 | 2.40 | 1.28 | 3.8 |
| 4/17/2015 | 1:58:23 | 56.30 | 51.40 | 84 | 2.42 | 1.37 | 4.6 |

## B31 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 1:54:25

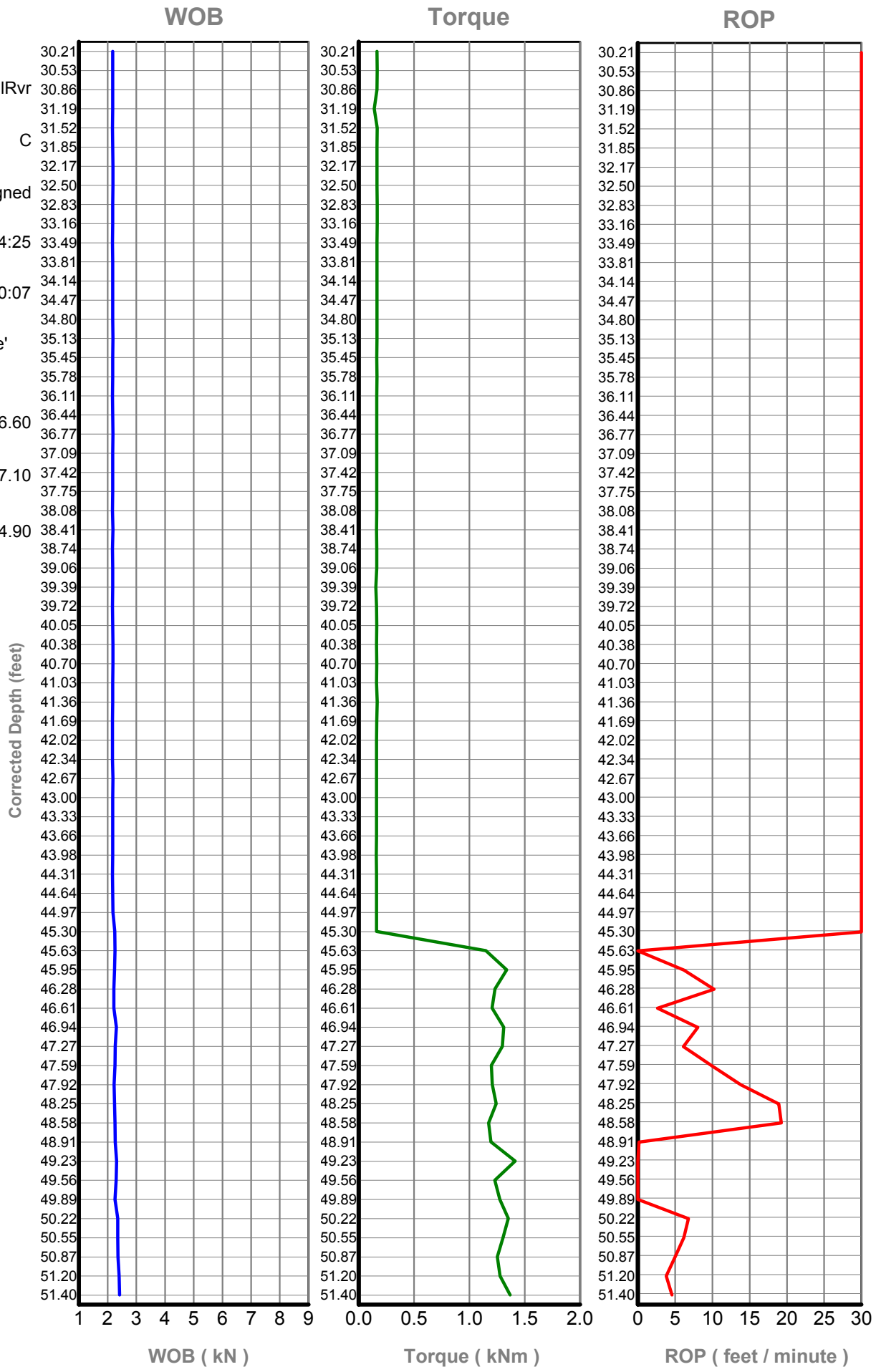
**End Date:**
4/17/2015 2:00:07

**Operator Note:**
'4.9 5.2 c Auto Complete'

**Northing:**
370,876.60

**Easting:**
259,637.10

**Tide (feet):**
4.90



## Hole: B32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:54:16 | 35.11 | 30.11 | 1,114 | 0.55 | 0.36 | 60.9 |
| 4/16/2015 21:54:17 | 35.43 | 30.43 | 1,114 | 0.55 | 0.36 | 60.9 |
| 4/16/2015 21:54:17 | 35.76 | 30.76 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:54:17 | 36.09 | 31.09 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 21:54:17 | 36.42 | 31.42 | 1,122 | 0.70 | 0.36 | 61.4 |
| 4/16/2015 21:54:18 | 36.75 | 31.75 | 1,097 | 0.55 | 0.35 | 60.0 |
| 4/16/2015 21:54:18 | 37.07 | 32.07 | 1,097 | 0.55 | 0.35 | 60.0 |
| 4/16/2015 21:54:18 | 37.40 | 32.40 | 1,097 | 0.55 | 0.35 | 60.0 |
| 4/16/2015 21:54:19 | 37.73 | 32.73 | 1,120 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 21:54:19 | 38.06 | 33.06 | 1,120 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 21:54:19 | 38.39 | 33.39 | 1,115 | 0.55 | 0.35 | 61.0 |
| 4/16/2015 21:54:20 | 38.71 | 33.71 | 1,115 | 0.55 | 0.35 | 61.0 |
| 4/16/2015 21:54:20 | 39.04 | 34.04 | 1,124 | 0.54 | 0.35 | 61.5 |
| 4/16/2015 21:54:20 | 39.37 | 34.37 | 1,094 | 0.54 | 0.35 | 59.8 |
| 4/16/2015 21:54:21 | 39.70 | 34.70 | 1,094 | 0.54 | 0.35 | 59.8 |
| 4/16/2015 21:54:21 | 40.03 | 35.03 | 1,094 | 0.54 | 0.35 | 59.8 |
| 4/16/2015 21:54:21 | 40.35 | 35.35 | 1,094 | 0.54 | 0.35 | 59.8 |
| 4/16/2015 21:54:21 | 40.68 | 35.68 | 1,138 | 0.54 | 0.36 | 62.2 |
| 4/16/2015 21:54:22 | 41.01 | 36.01 | 1,103 | 0.54 | 0.35 | 60.3 |
| 4/16/2015 21:54:22 | 41.34 | 36.34 | 1,103 | 0.54 | 0.35 | 60.3 |
| 4/16/2015 21:54:22 | 41.67 | 36.67 | 1,103 | 0.54 | 0.35 | 60.3 |
| 4/16/2015 21:54:23 | 41.99 | 36.99 | 1,103 | 0.54 | 0.35 | 60.3 |
| 4/16/2015 21:54:23 | 42.32 | 37.32 | 1,108 | 0.54 | 0.35 | 60.6 |
| 4/16/2015 21:54:23 | 42.65 | 37.65 | 1,111 | 0.54 | 0.35 | 60.8 |
| 4/16/2015 21:54:24 | 42.98 | 37.98 | 1,111 | 0.54 | 0.35 | 60.8 |
| 4/16/2015 21:54:24 | 43.31 | 38.31 | 1,134 | 0.54 | 0.35 | 62.0 |
| 4/16/2015 21:54:24 | 43.64 | 38.64 | 1,134 | 0.54 | 0.35 | 62.0 |
| 4/16/2015 21:54:24 | 43.96 | 38.96 | 1,114 | 0.54 | 0.35 | 60.9 |
| 4/16/2015 21:54:25 | 44.29 | 39.29 | 1,138 | 0.54 | 0.35 | 62.2 |
| 4/16/2015 21:54:25 | 44.62 | 39.62 | 1,138 | 0.54 | 0.35 | 62.2 |
| 4/16/2015 21:54:25 | 44.95 | 39.95 | 1,130 | 0.54 | 0.35 | 61.8 |
| 4/16/2015 21:54:26 | 45.28 | 40.28 | 1,127 | 0.54 | 0.35 | 61.6 |
| 4/16/2015 21:54:27 | 45.60 | 40.60 | 1,127 | 0.54 | 0.35 | 61.6 |
| 4/16/2015 21:54:27 | 45.93 | 40.93 | 1,122 | 0.54 | 0.35 | 61.3 |
| 4/16/2015 21:54:27 | 46.26 | 41.26 | 1,122 | 0.54 | 0.35 | 61.3 |
| 4/16/2015 21:54:27 | 46.59 | 41.59 | 1,112 | 0.54 | 0.34 | 60.8 |
| 4/16/2015 21:54:28 | 46.92 | 41.92 | 1,123 | 0.54 | 0.34 | 61.4 |
| 4/16/2015 21:54:28 | 47.24 | 42.24 | 1,123 | 0.54 | 0.34 | 61.4 |
| 4/16/2015 21:54:28 | 47.57 | 42.57 | 1,117 | 0.54 | 0.35 | 61.1 |
| 4/16/2015 21:54:29 | 47.90 | 42.90 | 1,117 | 0.54 | 0.35 | 61.1 |
| 4/16/2015 21:54:29 | 48.23 | 43.23 | 1,104 | 0.54 | 0.34 | 60.4 |
| 4/16/2015 21:54:29 | 48.56 | 43.56 | 1,111 | 0.54 | 0.35 | 60.8 |
| 4/16/2015 21:54:30 | 48.88 | 43.88 | 1,111 | 0.54 | 0.35 | 60.8 |
| 4/16/2015 21:54:30 | 49.21 | 44.21 | 1,123 | 0.54 | 0.34 | 61.4 |
| 4/16/2015 21:54:30 | 49.54 | 44.54 | 1,113 | 0.53 | 0.40 | 60.9 |
| 4/16/2015 21:54:47 | 49.87 | 44.87 | 0 | 3.24 | 0.47 | 0.0 |
| 4/16/2015 21:54:48 | 50.20 | 45.20 | 151 | 4.26 | 0.46 | 8.3 |
| 4/16/2015 21:54:50 | 50.53 | 45.53 | 266 | 4.72 | 0.50 | 14.5 |
| 4/16/2015 21:55:13 | 50.85 | 45.85 | 3 | 4.33 | 0.45 | 0.2 |
| 4/16/2015 21:55:16 | 51.18 | 46.18 | 145 | 5.48 | 0.50 | 7.9 |
| 4/16/2015 21:55:20 | 51.51 | 46.51 | 93 | 5.18 | 0.51 | 5.1 |
| 4/16/2015 21:55:23 | 51.84 | 46.84 | 95 | 5.01 | 0.50 | 5.2 |
| 4/16/2015 21:55:58 | 51.94 | 46.94 | 0 | 5.29 | 0.43 | 0.0 |

## B32 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 21:51:38

**End Date:**
4/16/2015 21:58:51

**Operator Note:**
'5 4.7 a Auto Complete'

**Northing:**
370,880.05

**Easting:**
259,720.07

**Tide (feet):**
5.00



## Hole: B33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:52:20 | 35.11 | 30.11 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 21:52:20 | 35.43 | 30.43 | 884 | 0.29 | 0.42 | 48.3 |
| 4/16/2015 21:52:20 | 35.76 | 30.76 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 21:52:21 | 36.09 | 31.09 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 21:52:21 | 36.42 | 31.42 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 21:52:43 | 36.75 | 31.75 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 21:52:43 | 37.07 | 32.07 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 21:52:44 | 37.40 | 32.40 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 21:52:44 | 37.73 | 32.73 | 249 | 0.29 | 0.42 | 13.6 |
| 4/16/2015 21:52:45 | 38.06 | 33.06 | 249 | 0.29 | 0.42 | 13.6 |
| 4/16/2015 21:52:45 | 38.39 | 33.39 | 418 | 0.29 | 0.42 | 22.8 |
| 4/16/2015 21:52:45 | 38.71 | 33.71 | 591 | 0.29 | 0.42 | 32.3 |
| 4/16/2015 21:52:46 | 39.04 | 34.04 | 763 | 0.29 | 0.42 | 41.7 |
| 4/16/2015 21:52:46 | 39.37 | 34.37 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 21:52:47 | 39.70 | 34.70 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 21:52:47 | 40.03 | 35.03 | 864 | 0.29 | 0.42 | 47.2 |
| 4/16/2015 21:52:47 | 40.35 | 35.35 | 869 | 0.29 | 0.42 | 47.5 |
| 4/16/2015 21:52:48 | 40.68 | 35.68 | 875 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:49 | 41.01 | 36.01 | 875 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:49 | 41.34 | 36.34 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 21:52:49 | 41.67 | 36.67 | 875 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:50 | 41.99 | 36.99 | 867 | 0.29 | 0.42 | 47.4 |
| 4/16/2015 21:52:50 | 42.32 | 37.32 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 21:52:51 | 42.65 | 37.65 | 870 | 0.29 | 0.42 | 47.6 |
| 4/16/2015 21:52:51 | 42.98 | 37.98 | 854 | 0.29 | 0.42 | 46.7 |
| 4/16/2015 21:52:51 | 43.31 | 38.31 | 853 | 0.29 | 0.42 | 46.6 |
| 4/16/2015 21:52:52 | 43.64 | 38.64 | 858 | 0.29 | 0.42 | 46.9 |
| 4/16/2015 21:52:52 | 43.96 | 38.96 | 860 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 21:52:53 | 44.29 | 39.29 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 21:52:53 | 44.62 | 39.62 | 861 | 0.29 | 0.42 | 47.1 |
| 4/16/2015 21:52:53 | 44.95 | 39.95 | 877 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 21:52:54 | 45.28 | 40.28 | 878 | 0.29 | 0.42 | 48.0 |
| 4/16/2015 21:52:54 | 45.60 | 40.60 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 21:52:55 | 45.93 | 40.93 | 881 | 0.29 | 0.42 | 48.2 |
| 4/16/2015 21:52:55 | 46.26 | 41.26 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 21:52:55 | 46.59 | 41.59 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 21:52:56 | 46.92 | 41.92 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 21:52:56 | 47.24 | 42.24 | 893 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 21:52:56 | 47.57 | 42.57 | 876 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:57 | 47.90 | 42.90 | 877 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:57 | 48.23 | 43.23 | 877 | 0.29 | 0.42 | 47.9 |
| 4/16/2015 21:52:58 | 48.56 | 43.56 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 21:52:58 | 48.88 | 43.88 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 21:52:58 | 49.21 | 44.21 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 21:52:59 | 49.54 | 44.54 | 887 | 0.29 | 0.42 | 48.5 |
| 4/16/2015 21:52:59 | 49.87 | 44.87 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 21:53:00 | 50.20 | 45.20 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 21:53:00 | 50.53 | 45.53 | 902 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 21:53:01 | 50.85 | 45.85 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 21:53:01 | 51.18 | 46.18 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 21:53:02 | 51.51 | 46.51 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 21:53:02 | 51.84 | 46.84 | 903 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 21:53:02 | 52.17 | 47.17 | 897 | 0.29 | 0.42 | 49.1 |
| 4/16/2015 21:54:21 | 52.49 | 47.49 | 88 | 0.29 | 0.42 | 4.8 |
| 4/16/2015 21:54:27 | 52.82 | 47.82 | 97 | 0.29 | 0.42 | 5.3 |
| 4/16/2015 21:54:37 | 53.15 | 48.15 | 12 | 0.29 | 0.42 | 0.6 |
| 4/16/2015 21:54:45 | 53.48 | 48.48 | 67 | 0.29 | 0.42 | 3.7 |
| 4/16/2015 21:54:51 | 53.81 | 48.81 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 21:54:55 | 54.13 | 49.13 | 69 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 21:55:02 | 54.46 | 49.46 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 21:55:07 | 54.79 | 49.79 | 61 | 0.29 | 0.42 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 21:55:28 | 54.92 | 49.92 | 0 | 0.29 | 0.42 | 0.0 |

## B33 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 21:49:03

**End Date:**
4/16/2015 21:58:54

**Operator Note:**
'5 4.7 b Auto Complete'

**Northing:**
370,874.56

**Easting:**
259,794.17

**Tide (feet):**
5.00



## Hole: B34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 21:54:01 | 35.11 | 30.11 | 733 | 2.26 | 0.15 | 40.1 |
| 4/16/2015 21:54:01 | 35.43 | 30.43 | 748 | 2.26 | 0.15 | 40.9 |
| 4/16/2015 21:54:02 | 35.76 | 30.76 | 740 | 2.26 | 0.15 | 40.5 |
| 4/16/2015 21:54:02 | 36.09 | 31.09 | 740 | 2.25 | 0.15 | 40.5 |
| 4/16/2015 21:54:03 | 36.42 | 31.42 | 736 | 2.26 | 0.15 | 40.3 |
| 4/16/2015 21:54:03 | 36.75 | 31.75 | 743 | 2.26 | 0.15 | 40.6 |
| 4/16/2015 21:54:04 | 37.07 | 32.07 | 740 | 2.27 | 0.15 | 40.5 |
| 4/16/2015 21:54:04 | 37.40 | 32.40 | 740 | 2.25 | 0.15 | 40.5 |
| 4/16/2015 21:54:05 | 37.73 | 32.73 | 736 | 2.25 | 0.15 | 40.3 |
| 4/16/2015 21:54:05 | 38.06 | 33.06 | 747 | 2.25 | 0.15 | 40.9 |
| 4/16/2015 21:54:06 | 38.39 | 33.39 | 740 | 2.25 | 0.15 | 40.5 |
| 4/16/2015 21:54:06 | 38.71 | 33.71 | 740 | 2.25 | 0.15 | 40.5 |
| 4/16/2015 21:54:06 | 39.04 | 34.04 | 740 | 2.27 | 0.15 | 40.5 |
| 4/16/2015 21:54:07 | 39.37 | 34.37 | 735 | 2.27 | 0.15 | 40.2 |
| 4/16/2015 21:54:07 | 39.70 | 34.70 | 747 | 2.26 | 0.15 | 40.8 |
| 4/16/2015 21:54:08 | 40.03 | 35.03 | 741 | 2.26 | 0.15 | 40.5 |
| 4/16/2015 21:54:09 | 40.35 | 35.35 | 739 | 2.26 | 0.15 | 40.4 |
| 4/16/2015 21:54:09 | 40.68 | 35.68 | 740 | 2.27 | 0.14 | 40.4 |
| 4/16/2015 21:54:10 | 41.01 | 36.01 | 752 | 2.27 | 0.15 | 41.1 |
| 4/16/2015 21:54:10 | 41.34 | 36.34 | 740 | 2.26 | 0.15 | 40.5 |
| 4/16/2015 21:54:11 | 41.67 | 36.67 | 743 | 2.26 | 0.14 | 40.6 |
| 4/16/2015 21:54:11 | 41.99 | 36.99 | 745 | 2.25 | 0.15 | 40.7 |
| 4/16/2015 21:54:12 | 42.32 | 37.32 | 746 | 2.26 | 0.15 | 40.8 |
| 4/16/2015 21:54:12 | 42.65 | 37.65 | 743 | 2.26 | 0.15 | 40.6 |
| 4/16/2015 21:54:13 | 42.98 | 37.98 | 743 | 2.26 | 0.15 | 40.6 |
| 4/16/2015 21:54:13 | 43.31 | 38.31 | 740 | 2.27 | 0.14 | 40.5 |
| 4/16/2015 21:54:13 | 43.64 | 38.64 | 736 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 21:54:14 | 43.96 | 38.96 | 743 | 2.27 | 0.14 | 40.6 |
| 4/16/2015 21:54:14 | 44.29 | 39.29 | 737 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 21:54:15 | 44.62 | 39.62 | 737 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 21:54:15 | 44.95 | 39.95 | 740 | 2.27 | 0.14 | 40.5 |
| 4/16/2015 21:54:16 | 45.28 | 40.28 | 747 | 2.27 | 0.14 | 40.9 |
| 4/16/2015 21:54:16 | 45.60 | 40.60 | 740 | 2.27 | 0.14 | 40.5 |
| 4/16/2015 21:54:17 | 45.93 | 40.93 | 744 | 2.26 | 0.14 | 40.7 |
| 4/16/2015 21:54:17 | 46.26 | 41.26 | 722 | 2.25 | 0.14 | 39.5 |
| 4/16/2015 21:54:18 | 46.59 | 41.59 | 722 | 2.26 | 0.14 | 39.5 |
| 4/16/2015 21:54:19 | 46.92 | 41.92 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 21:54:19 | 47.24 | 42.24 | 728 | 2.26 | 0.14 | 39.8 |
| 4/16/2015 21:54:20 | 47.57 | 42.57 | 728 | 2.26 | 0.14 | 39.8 |
| 4/16/2015 21:54:20 | 47.90 | 42.90 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 21:54:20 | 48.23 | 43.23 | 735 | 2.26 | 0.14 | 40.2 |
| 4/16/2015 21:54:21 | 48.56 | 43.56 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 21:54:21 | 48.88 | 43.88 | 745 | 2.26 | 0.14 | 40.8 |
| 4/16/2015 21:54:22 | 49.21 | 44.21 | 735 | 2.26 | 0.14 | 40.2 |
| 4/16/2015 21:54:22 | 49.54 | 44.54 | 738 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 21:54:23 | 49.87 | 44.87 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 21:54:23 | 50.20 | 45.20 | 735 | 2.28 | 0.14 | 40.2 |
| 4/16/2015 21:54:24 | 50.53 | 45.53 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 21:54:24 | 50.85 | 45.85 | 742 | 2.26 | 0.14 | 40.6 |
| 4/16/2015 21:54:25 | 51.18 | 46.18 | 737 | 2.26 | 0.14 | 40.3 |
| 4/16/2015 21:54:25 | 51.51 | 46.51 | 734 | 2.27 | 0.14 | 40.1 |
| 4/16/2015 21:54:26 | 51.84 | 46.84 | 733 | 2.31 | 0.14 | 40.1 |
| 4/16/2015 21:54:26 | 52.17 | 47.17 | 707 | 2.38 | 0.14 | 38.7 |
| 4/16/2015 21:55:23 | 52.49 | 47.49 | 0 | 2.28 | 0.91 | 0.0 |
| 4/16/2015 21:55:24 | 52.82 | 47.82 | 74 | 2.28 | 0.92 | 4.1 |
| 4/16/2015 21:55:24 | 53.15 | 48.15 | 210 | 2.29 | 0.92 | 11.5 |
| 4/16/2015 21:55:25 | 53.48 | 48.48 | 341 | 2.29 | 0.93 | 18.6 |
| 4/16/2015 21:55:26 | 53.81 | 48.81 | 602 | 2.30 | 0.94 | 32.9 |
| 4/16/2015 21:55:26 | 54.13 | 49.13 | 651 | 2.31 | 0.94 | 35.6 |
| 4/16/2015 21:55:27 | 54.46 | 49.46 | 632 | 2.30 | 0.94 | 34.6 |
| 4/16/2015 21:55:27 | 54.79 | 49.79 | 627 | 2.32 | 0.94 | 34.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 21:55:28 | 55.12 | 50.12 | 604 | 2.31 | 0.95 | 33.0 |
| 4/16/2015 | 21:55:28 | 55.45 | 50.45 | 604 | 2.31 | 0.93 | 33.0 |
| 4/16/2015 | 21:55:29 | 55.77 | 50.77 | 600 | 2.32 | 0.94 | 32.8 |
| 4/16/2015 | 21:55:30 | 56.10 | 51.10 | 591 | 2.30 | 0.93 | 32.3 |
| 4/16/2015 | 21:55:30 | 56.43 | 51.43 | 589 | 2.31 | 0.92 | 32.2 |
| 4/16/2015 | 21:55:31 | 56.76 | 51.76 | 590 | 2.31 | 0.93 | 32.2 |
| 4/16/2015 | 21:55:32 | 57.09 | 52.09 | 581 | 2.32 | 0.93 | 31.8 |
| 4/16/2015 | 21:55:32 | 57.41 | 52.41 | 582 | 2.32 | 0.94 | 31.8 |
| 4/16/2015 | 21:55:33 | 57.74 | 52.74 | 557 | 2.37 | 1.29 | 30.5 |
| 4/16/2015 | 21:55:34 | 58.07 | 53.07 | 524 | 2.16 | 1.38 | 28.6 |
| 4/16/2015 | 21:55:37 | 58.40 | 53.40 | 97 | 2.35 | 1.13 | 5.3 |
| 4/16/2015 | 21:55:37 | 58.73 | 53.73 | 186 | 2.36 | 1.16 | 10.2 |
| 4/16/2015 | 21:55:38 | 59.06 | 54.06 | 377 | 2.40 | 1.20 | 20.6 |
| 4/16/2015 | 21:55:56 | 59.38 | 54.38 | 0 | 2.29 | 1.06 | 0.0 |
| 4/16/2015 | 21:56:00 | 59.69 | 54.69 | 34 | 2.48 | 1.48 | 1.9 |

## B34 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/16/2015 21:51:09

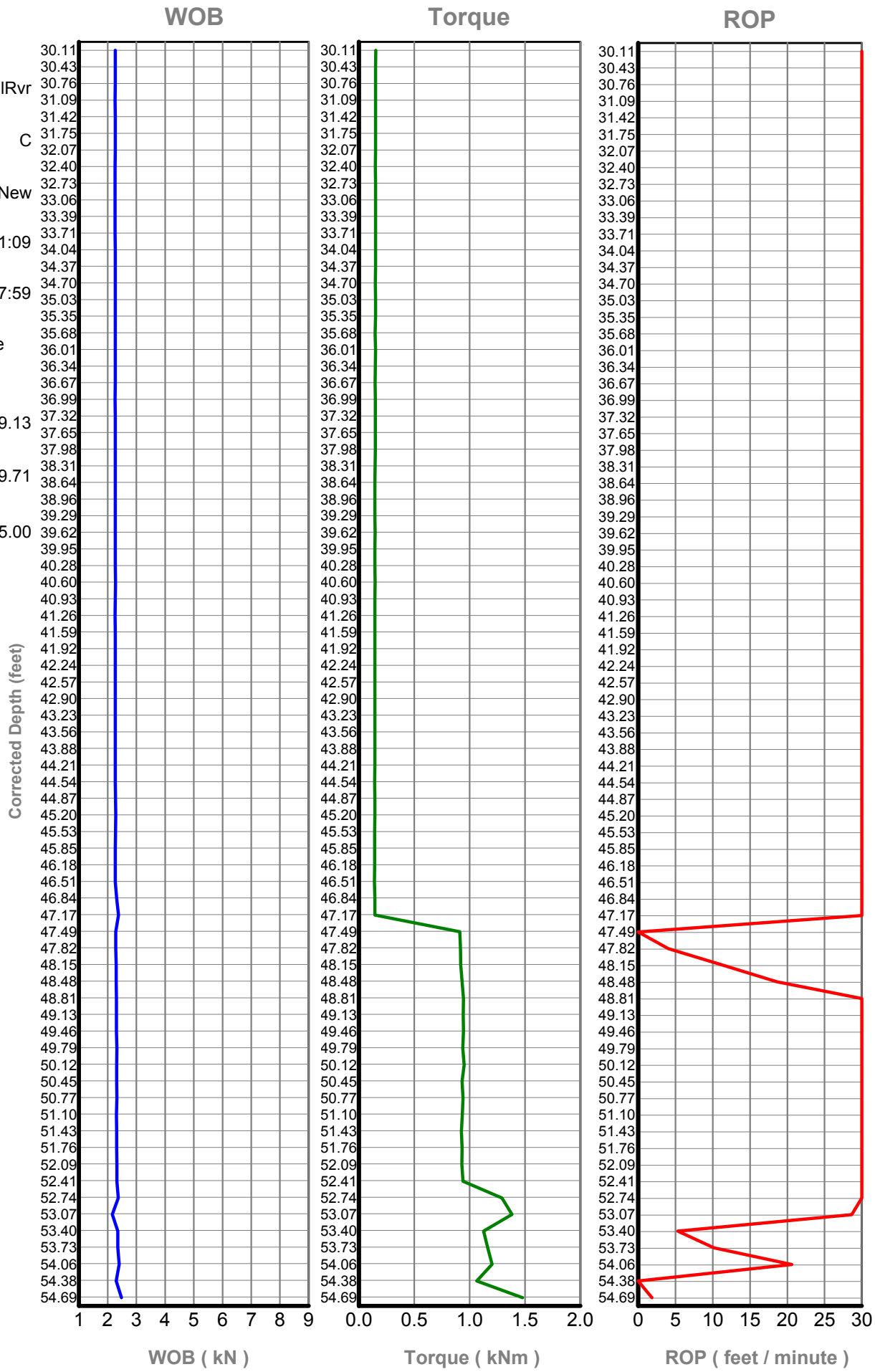
**End Date:**
4/16/2015 21:57:59

**Operator Note:**
'5.0 4.7 c Auto Complete

**Northing:**
370,869.13

**Easting:**
259,869.71

**Tide (feet):**
5.00



## Hole: B35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:54:21 | 36.42 | 30.12 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 23:54:22 | 36.75 | 30.45 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 23:54:22 | 37.07 | 30.77 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 23:54:23 | 37.40 | 31.10 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 23:54:23 | 37.73 | 31.43 | 907 | 0.29 | 0.42 | 49.6 |
| 4/16/2015 23:54:23 | 38.06 | 31.76 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 23:54:24 | 38.39 | 32.09 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 23:54:24 | 38.71 | 32.41 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 23:54:24 | 39.04 | 32.74 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 23:54:25 | 39.37 | 33.07 | 901 | 0.29 | 0.42 | 49.3 |
| 4/16/2015 23:54:26 | 39.70 | 33.40 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:54:26 | 40.03 | 33.73 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:54:26 | 40.35 | 34.05 | 926 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:27 | 40.68 | 34.38 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 23:54:27 | 41.01 | 34.71 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:54:28 | 41.34 | 35.04 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:54:28 | 41.67 | 35.37 | 916 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 23:54:28 | 41.99 | 35.69 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 23:54:29 | 42.32 | 36.02 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 23:54:29 | 42.65 | 36.35 | 896 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 23:54:29 | 42.98 | 36.68 | 890 | 0.29 | 0.42 | 48.7 |
| 4/16/2015 23:54:30 | 43.31 | 37.01 | 892 | 0.29 | 0.42 | 48.8 |
| 4/16/2015 23:54:30 | 43.64 | 37.34 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 23:54:31 | 43.96 | 37.66 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 23:54:31 | 44.29 | 37.99 | 885 | 0.29 | 0.42 | 48.4 |
| 4/16/2015 23:54:31 | 44.62 | 38.32 | 897 | 0.29 | 0.42 | 49.0 |
| 4/16/2015 23:54:32 | 44.95 | 38.65 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 23:54:32 | 45.28 | 38.98 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 23:54:32 | 45.60 | 39.30 | 911 | 0.29 | 0.42 | 49.8 |
| 4/16/2015 23:54:33 | 45.93 | 39.63 | 923 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 23:54:33 | 46.26 | 39.96 | 937 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 23:54:34 | 46.59 | 40.29 | 937 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 23:54:34 | 46.92 | 40.62 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:34 | 47.24 | 40.94 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:35 | 47.57 | 41.27 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:35 | 47.90 | 41.60 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:35 | 48.23 | 41.93 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:36 | 48.56 | 42.26 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 23:54:36 | 48.88 | 42.58 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:54:37 | 49.21 | 42.91 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:54:37 | 49.54 | 43.24 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 23:54:38 | 49.87 | 43.57 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 23:54:38 | 50.20 | 43.90 | 939 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 23:54:39 | 50.53 | 44.23 | 939 | 0.29 | 0.42 | 51.4 |
| 4/16/2015 23:54:39 | 50.85 | 44.55 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 23:54:39 | 51.18 | 44.88 | 936 | 0.29 | 0.42 | 51.2 |
| 4/16/2015 23:54:40 | 51.51 | 45.21 | 934 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 23:54:40 | 51.84 | 45.54 | 934 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 23:54:40 | 52.17 | 45.87 | 930 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 23:54:41 | 52.49 | 46.19 | 925 | 0.29 | 0.42 | 50.6 |
| 4/16/2015 23:54:41 | 52.82 | 46.52 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 23:54:42 | 53.15 | 46.85 | 924 | 0.29 | 0.42 | 50.5 |
| 4/16/2015 23:54:42 | 53.48 | 47.18 | 916 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 23:55:13 | 53.81 | 47.51 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 23:55:14 | 54.13 | 47.83 | 37 | 0.29 | 0.42 | 2.0 |
| 4/16/2015 23:55:14 | 54.46 | 48.16 | 187 | 0.29 | 0.42 | 10.2 |
| 4/16/2015 23:55:15 | 54.79 | 48.49 | 393 | 0.29 | 0.42 | 21.5 |
| 4/16/2015 23:55:16 | 55.12 | 48.82 | 501 | 0.29 | 0.42 | 27.4 |
| 4/16/2015 23:55:23 | 55.45 | 49.15 | 38 | 0.29 | 0.42 | 2.1 |
| 4/16/2015 23:55:25 | 55.77 | 49.47 | 191 | 0.29 | 0.42 | 10.4 |
| 4/16/2015 23:55:25 | 56.10 | 49.80 | 282 | 0.29 | 0.42 | 15.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 23:55:27 | 56.43 | 50.13 | 395 | 0.29 | 0.42 | 21.6 |
| 4/16/2015 | 23:55:33 | 56.76 | 50.46 | 53 | 0.29 | 0.42 | 2.9 |
| 4/16/2015 | 23:55:41 | 57.09 | 50.79 | 41 | 0.29 | 0.42 | 2.2 |
| 4/16/2015 | 23:55:49 | 57.41 | 51.11 | 44 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 23:55:59 | 57.74 | 51.44 | 35 | 0.29 | 0.42 | 1.9 |
| 4/16/2015 | 23:56:09 | 58.07 | 51.77 | 41 | 0.29 | 0.42 | 2.2 |
| 4/16/2015 | 23:56:12 | 58.40 | 52.10 | 122 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 | 23:56:16 | 58.73 | 52.43 | 107 | 0.29 | 0.42 | 5.8 |
| 4/16/2015 | 23:56:19 | 59.06 | 52.76 | 93 | 0.29 | 0.42 | 5.1 |
| 4/16/2015 | 23:56:23 | 59.38 | 53.08 | 87 | 0.29 | 0.42 | 4.8 |
| 4/16/2015 | 23:56:26 | 59.71 | 53.41 | 157 | 0.29 | 0.42 | 8.6 |
| 4/16/2015 | 23:56:29 | 60.04 | 53.74 | 104 | 0.29 | 0.42 | 5.7 |
| 4/16/2015 | 23:56:32 | 60.37 | 54.07 | 99 | 0.29 | 0.42 | 5.4 |
| 4/16/2015 | 23:56:36 | 60.70 | 54.40 | 119 | 0.29 | 0.42 | 6.5 |
| 4/16/2015 | 23:56:39 | 61.02 | 54.72 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 23:56:43 | 61.35 | 55.05 | 90 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 23:56:51 | 61.51 | 55.21 | 26 | 0.29 | 0.42 | 1.4 |

## B35 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:50:10

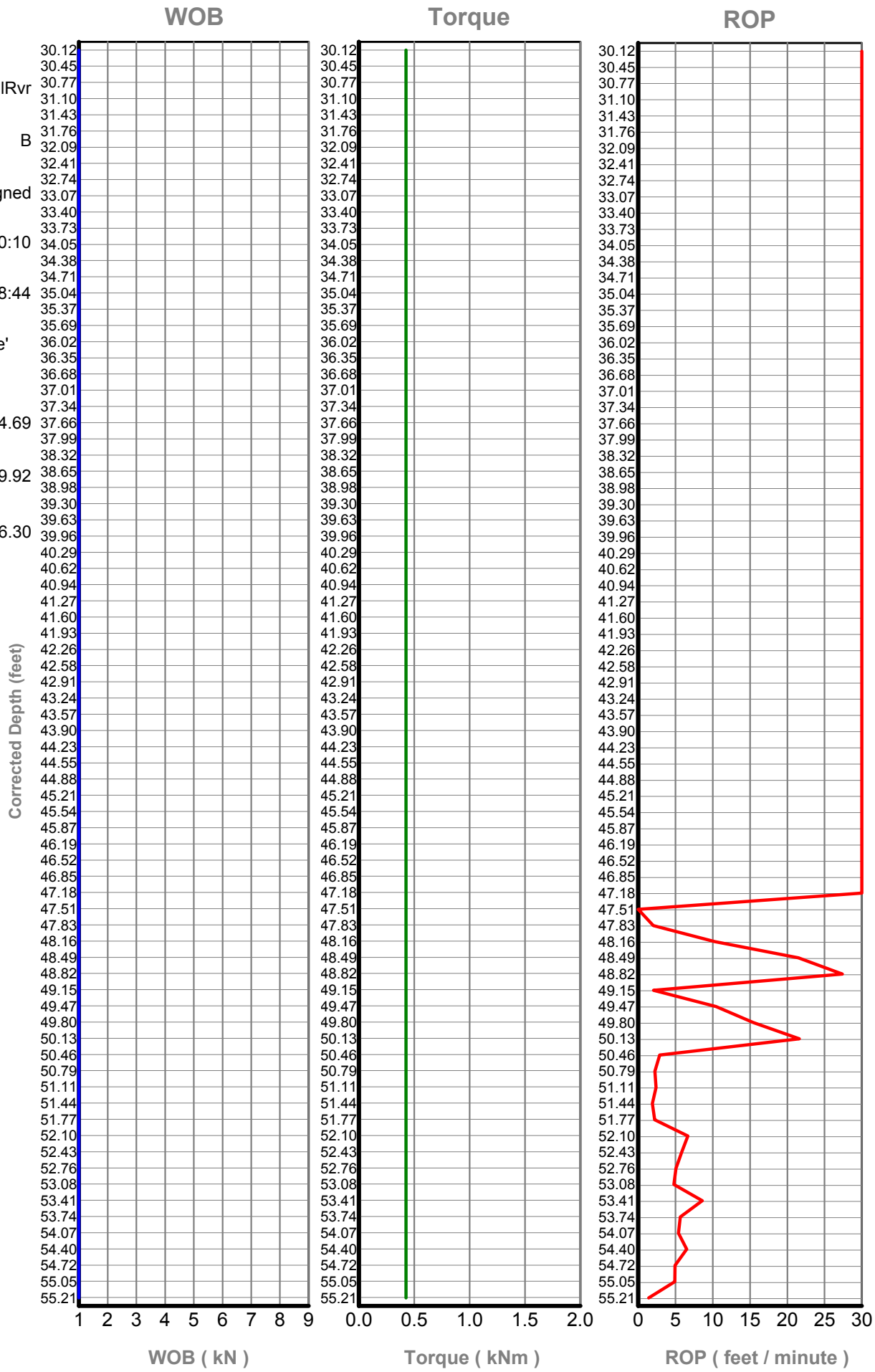
**End Date:**
4/16/2015 23:58:44

**Operator Note:**
'6.3 6.5 b Auto Complete'

**Northing:**
370,804.69

**Easting:**
259,559.92

**Tide (feet):**
6.30



## Hole: B36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:53:36 | 36.42 | 30.12 | 733 | 2.27 | 0.15 | 40.1 |
| 4/16/2015 23:53:37 | 36.75 | 30.45 | 725 | 2.27 | 0.15 | 39.6 |
| 4/16/2015 23:53:37 | 37.07 | 30.77 | 729 | 1.83 | 0.15 | 39.9 |
| 4/16/2015 23:53:38 | 37.40 | 31.10 | 730 | 2.25 | 0.15 | 39.9 |
| 4/16/2015 23:53:38 | 37.73 | 31.43 | 708 | 2.28 | 0.15 | 38.7 |
| 4/16/2015 23:53:39 | 38.06 | 31.76 | 710 | 2.29 | 0.15 | 38.8 |
| 4/16/2015 23:53:39 | 38.39 | 32.09 | 715 | 2.28 | 0.15 | 39.1 |
| 4/16/2015 23:53:40 | 38.71 | 32.41 | 703 | 2.14 | 0.16 | 38.4 |
| 4/16/2015 23:53:40 | 39.04 | 32.74 | 685 | 2.31 | 0.15 | 37.5 |
| 4/16/2015 23:53:41 | 39.37 | 33.07 | 692 | 2.29 | 0.15 | 37.8 |
| 4/16/2015 23:53:42 | 39.70 | 33.40 | 680 | 2.28 | 0.15 | 37.2 |
| 4/16/2015 23:53:42 | 40.03 | 33.73 | 688 | 2.28 | 0.15 | 37.6 |
| 4/16/2015 23:53:53 | 40.35 | 34.05 | 6 | 2.29 | 0.14 | 0.3 |
| 4/16/2015 23:53:54 | 40.68 | 34.38 | 147 | 2.29 | 0.15 | 8.0 |
| 4/16/2015 23:53:54 | 41.01 | 34.71 | 287 | 2.28 | 0.15 | 15.7 |
| 4/16/2015 23:53:55 | 41.34 | 35.04 | 426 | 2.28 | 0.15 | 23.3 |
| 4/16/2015 23:53:55 | 41.67 | 35.37 | 574 | 2.29 | 0.15 | 31.4 |
| 4/16/2015 23:53:56 | 41.99 | 35.69 | 709 | 2.28 | 0.15 | 38.7 |
| 4/16/2015 23:53:56 | 42.32 | 36.02 | 707 | 2.30 | 0.15 | 38.7 |
| 4/16/2015 23:53:57 | 42.65 | 36.35 | 714 | 2.28 | 0.15 | 39.1 |
| 4/16/2015 23:53:57 | 42.98 | 36.68 | 716 | 2.27 | 0.15 | 39.1 |
| 4/16/2015 23:53:58 | 43.31 | 37.01 | 711 | 2.28 | 0.15 | 38.9 |
| 4/16/2015 23:53:58 | 43.64 | 37.34 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:53:59 | 43.96 | 37.66 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:53:59 | 44.29 | 37.99 | 714 | 2.27 | 0.15 | 39.0 |
| 4/16/2015 23:53:59 | 44.62 | 38.32 | 711 | 2.28 | 0.15 | 38.9 |
| 4/16/2015 23:54:00 | 44.95 | 38.65 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:54:00 | 45.28 | 38.98 | 707 | 2.29 | 0.15 | 38.7 |
| 4/16/2015 23:54:01 | 45.60 | 39.30 | 710 | 2.28 | 0.15 | 38.8 |
| 4/16/2015 23:54:01 | 45.93 | 39.63 | 711 | 2.28 | 0.15 | 38.9 |
| 4/16/2015 23:54:02 | 46.26 | 39.96 | 708 | 2.28 | 0.15 | 38.7 |
| 4/16/2015 23:54:03 | 46.59 | 40.29 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:54:03 | 46.92 | 40.62 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:54:04 | 47.24 | 40.94 | 712 | 2.28 | 0.15 | 39.0 |
| 4/16/2015 23:54:04 | 47.57 | 41.27 | 696 | 2.28 | 0.15 | 38.1 |
| 4/16/2015 23:54:05 | 47.90 | 41.60 | 696 | 2.28 | 0.15 | 38.1 |
| 4/16/2015 23:54:05 | 48.23 | 41.93 | 706 | 2.27 | 0.15 | 38.6 |
| 4/16/2015 23:54:06 | 48.56 | 42.26 | 703 | 2.28 | 0.15 | 38.4 |
| 4/16/2015 23:54:06 | 48.88 | 42.58 | 707 | 2.27 | 0.15 | 38.7 |
| 4/16/2015 23:54:07 | 49.21 | 42.91 | 703 | 2.27 | 0.15 | 38.4 |
| 4/16/2015 23:54:07 | 49.54 | 43.24 | 715 | 2.28 | 0.15 | 39.1 |
| 4/16/2015 23:54:08 | 49.87 | 43.57 | 708 | 2.28 | 0.15 | 38.7 |
| 4/16/2015 23:54:08 | 50.20 | 43.90 | 708 | 2.29 | 0.15 | 38.7 |
| 4/16/2015 23:54:09 | 50.53 | 44.23 | 704 | 2.28 | 0.15 | 38.5 |
| 4/16/2015 23:54:09 | 50.85 | 44.55 | 711 | 2.27 | 0.15 | 38.9 |
| 4/16/2015 23:54:10 | 51.18 | 44.88 | 712 | 2.28 | 0.15 | 39.0 |
| 4/16/2015 23:54:10 | 51.51 | 45.21 | 708 | 2.29 | 0.15 | 38.7 |
| 4/16/2015 23:54:11 | 51.84 | 45.54 | 708 | 2.28 | 0.15 | 38.7 |
| 4/16/2015 23:54:12 | 52.17 | 45.87 | 713 | 2.28 | 0.15 | 39.0 |
| 4/16/2015 23:54:12 | 52.49 | 46.19 | 690 | 2.27 | 0.15 | 37.8 |
| 4/16/2015 23:54:13 | 52.82 | 46.52 | 690 | 2.28 | 0.15 | 37.8 |
| 4/16/2015 23:54:13 | 53.15 | 46.85 | 700 | 2.28 | 0.15 | 38.3 |
| 4/16/2015 23:54:14 | 53.48 | 47.18 | 700 | 2.27 | 0.15 | 38.3 |
| 4/16/2015 23:54:14 | 53.81 | 47.51 | 704 | 2.27 | 0.15 | 38.5 |
| 4/16/2015 23:54:15 | 54.13 | 47.83 | 704 | 2.27 | 0.15 | 38.5 |
| 4/16/2015 23:54:15 | 54.46 | 48.16 | 700 | 2.28 | 0.15 | 38.3 |
| 4/16/2015 23:54:15 | 54.79 | 48.49 | 700 | 2.28 | 0.15 | 38.3 |
| 4/16/2015 23:54:16 | 55.12 | 48.82 | 675 | 2.43 | 0.15 | 36.9 |
| 4/16/2015 23:54:34 | 55.45 | 49.15 | 0 | 2.30 | 1.04 | 0.0 |
| 4/16/2015 23:54:35 | 55.77 | 49.47 | 124 | 2.29 | 1.09 | 6.8 |
| 4/16/2015 23:54:36 | 56.10 | 49.80 | 373 | 2.47 | 1.14 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 23:54:48 | 56.43 | 50.13 | 6 | 2.43 | 1.26 | 0.3 |
| 4/16/2015 | 23:54:54 | 56.76 | 50.46 | 52 | 2.53 | 1.37 | 2.8 |
| 4/16/2015 | 23:55:00 | 57.09 | 50.79 | 43 | 2.53 | 1.27 | 2.4 |
| 4/16/2015 | 23:55:08 | 57.41 | 51.11 | 47 | 2.56 | 1.23 | 2.6 |
| 4/16/2015 | 23:55:10 | 57.58 | 51.28 | 58 | 2.55 | 1.31 | 3.2 |

## B36 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:51:16

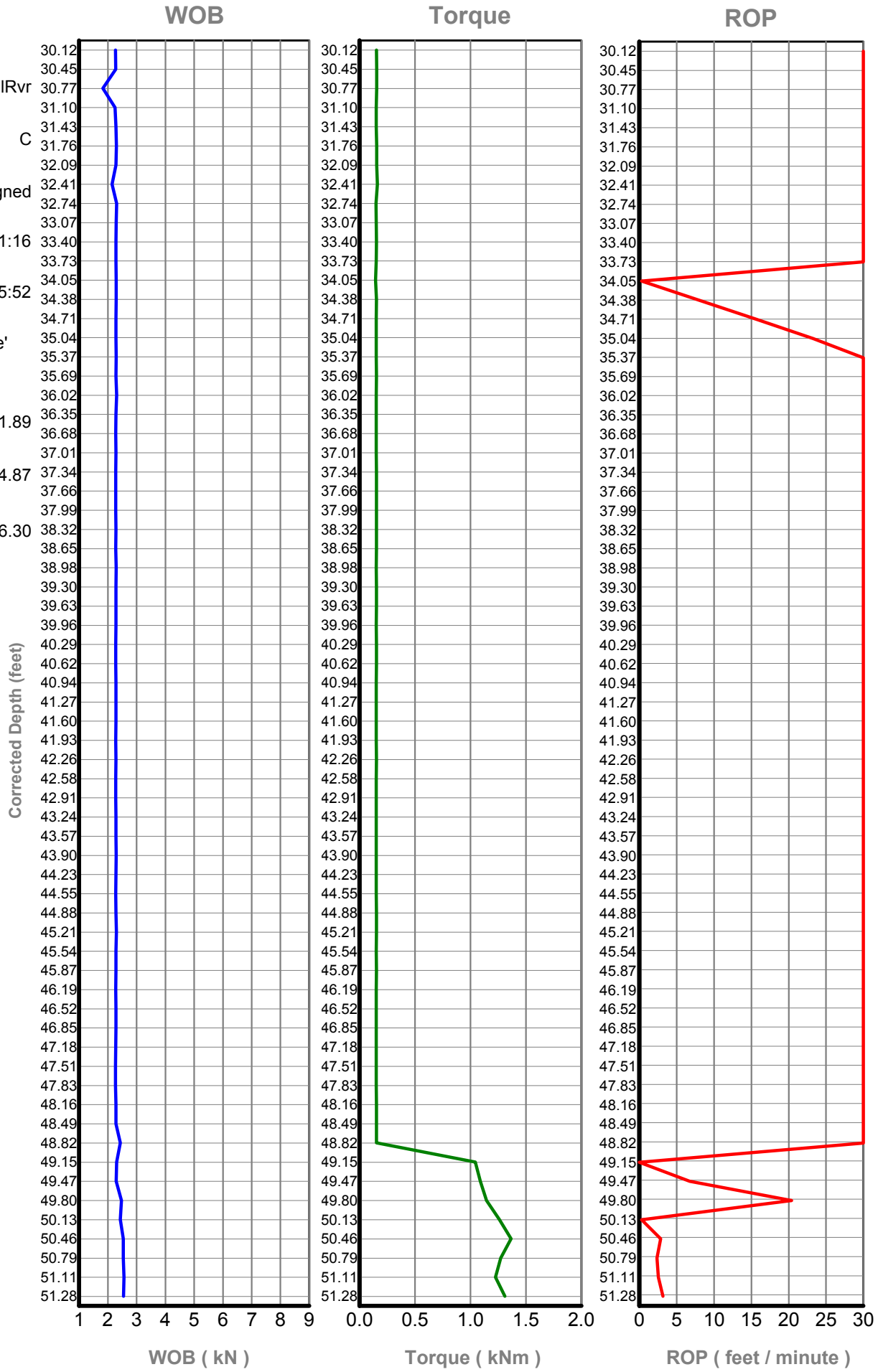
**End Date:**
4/16/2015 23:55:52

**Operator Note:**
'6.3 6.5 c Auto Complete'

**Northing:**
370,801.89

**Easting:**
259,634.87

**Tide (feet):**
6.30



## Hole: B37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:16:09 | 32.81 | 30.11 | 1,132 | 0.54 | 0.36 | 61.9 |
| 4/16/2015 22:16:09 | 33.14 | 30.44 | 1,132 | 0.54 | 0.36 | 61.9 |
| 4/16/2015 22:16:09 | 33.46 | 30.76 | 1,132 | 0.54 | 0.36 | 61.9 |
| 4/16/2015 22:16:10 | 33.79 | 31.09 | 1,132 | 0.54 | 0.36 | 61.9 |
| 4/16/2015 22:16:10 | 34.12 | 31.42 | 1,138 | 0.54 | 0.36 | 62.2 |
| 4/16/2015 22:16:10 | 34.45 | 31.75 | 1,153 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:11 | 34.78 | 32.08 | 1,153 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:11 | 35.11 | 32.41 | 1,154 | 0.54 | 0.35 | 63.1 |
| 4/16/2015 22:16:11 | 35.43 | 32.73 | 1,154 | 0.54 | 0.35 | 63.1 |
| 4/16/2015 22:16:11 | 35.76 | 33.06 | 1,156 | 0.54 | 0.36 | 63.2 |
| 4/16/2015 22:16:12 | 36.09 | 33.39 | 1,175 | 0.54 | 0.36 | 64.2 |
| 4/16/2015 22:16:12 | 36.42 | 33.72 | 1,175 | 0.54 | 0.36 | 64.2 |
| 4/16/2015 22:16:12 | 36.75 | 34.05 | 1,165 | 0.54 | 0.36 | 63.7 |
| 4/16/2015 22:16:13 | 37.07 | 34.37 | 1,165 | 0.54 | 0.36 | 63.7 |
| 4/16/2015 22:16:13 | 37.40 | 34.70 | 1,162 | 0.54 | 0.36 | 63.5 |
| 4/16/2015 22:16:13 | 37.73 | 35.03 | 1,168 | 0.54 | 0.36 | 63.9 |
| 4/16/2015 22:16:14 | 38.06 | 35.36 | 1,168 | 0.54 | 0.36 | 63.9 |
| 4/16/2015 22:16:14 | 38.39 | 35.69 | 1,161 | 0.54 | 0.35 | 63.5 |
| 4/16/2015 22:16:14 | 38.71 | 36.01 | 1,161 | 0.54 | 0.35 | 63.5 |
| 4/16/2015 22:16:14 | 39.04 | 36.34 | 1,177 | 0.54 | 0.36 | 64.3 |
| 4/16/2015 22:16:15 | 39.37 | 36.67 | 1,177 | 0.54 | 0.36 | 64.3 |
| 4/16/2015 22:16:15 | 39.70 | 37.00 | 1,174 | 0.54 | 0.35 | 64.2 |
| 4/16/2015 22:16:15 | 40.03 | 37.33 | 1,177 | 0.54 | 0.36 | 64.3 |
| 4/16/2015 22:16:16 | 40.35 | 37.65 | 1,177 | 0.54 | 0.36 | 64.3 |
| 4/16/2015 22:16:16 | 40.68 | 37.98 | 1,159 | 0.54 | 0.35 | 63.4 |
| 4/16/2015 22:16:16 | 41.01 | 38.31 | 1,159 | 0.54 | 0.35 | 63.4 |
| 4/16/2015 22:16:16 | 41.34 | 38.64 | 1,169 | 0.54 | 0.35 | 63.9 |
| 4/16/2015 22:16:17 | 41.67 | 38.97 | 1,153 | 0.54 | 0.35 | 63.0 |
| 4/16/2015 22:16:17 | 41.99 | 39.29 | 1,153 | 0.54 | 0.35 | 63.0 |
| 4/16/2015 22:16:17 | 42.32 | 39.62 | 1,163 | 0.54 | 0.36 | 63.6 |
| 4/16/2015 22:16:18 | 42.65 | 39.95 | 1,163 | 0.54 | 0.36 | 63.6 |
| 4/16/2015 22:16:18 | 42.98 | 40.28 | 1,153 | 0.54 | 0.36 | 63.0 |
| 4/16/2015 22:16:19 | 43.31 | 40.61 | 1,175 | 0.54 | 0.35 | 64.3 |
| 4/16/2015 22:16:19 | 43.64 | 40.94 | 1,175 | 0.54 | 0.35 | 64.3 |
| 4/16/2015 22:16:19 | 43.96 | 41.26 | 1,162 | 0.54 | 0.36 | 63.6 |
| 4/16/2015 22:16:20 | 44.29 | 41.59 | 1,162 | 0.54 | 0.36 | 63.6 |
| 4/16/2015 22:16:20 | 44.62 | 41.92 | 1,169 | 0.54 | 0.35 | 63.9 |
| 4/16/2015 22:16:20 | 44.95 | 42.25 | 1,169 | 0.54 | 0.35 | 63.9 |
| 4/16/2015 22:16:20 | 45.28 | 42.58 | 1,155 | 0.54 | 0.36 | 63.2 |
| 4/16/2015 22:16:21 | 45.60 | 42.90 | 1,162 | 0.54 | 0.35 | 63.6 |
| 4/16/2015 22:16:21 | 45.93 | 43.23 | 1,162 | 0.54 | 0.35 | 63.6 |
| 4/16/2015 22:16:21 | 46.26 | 43.56 | 1,154 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:22 | 46.59 | 43.89 | 1,154 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:22 | 46.92 | 44.22 | 1,154 | 0.54 | 0.35 | 63.1 |
| 4/16/2015 22:16:22 | 47.24 | 44.54 | 1,144 | 0.54 | 0.36 | 62.5 |
| 4/16/2015 22:16:23 | 47.57 | 44.87 | 1,144 | 0.54 | 0.36 | 62.5 |
| 4/16/2015 22:16:23 | 47.90 | 45.20 | 1,158 | 0.54 | 0.36 | 63.3 |
| 4/16/2015 22:16:23 | 48.23 | 45.53 | 1,158 | 0.54 | 0.36 | 63.3 |
| 4/16/2015 22:16:23 | 48.56 | 45.86 | 1,148 | 0.54 | 0.35 | 62.8 |
| 4/16/2015 22:16:24 | 48.88 | 46.18 | 1,146 | 0.54 | 0.36 | 62.7 |
| 4/16/2015 22:16:24 | 49.21 | 46.51 | 1,146 | 0.54 | 0.36 | 62.7 |
| 4/16/2015 22:16:24 | 49.54 | 46.84 | 1,154 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:25 | 49.87 | 47.17 | 1,154 | 0.54 | 0.36 | 63.1 |
| 4/16/2015 22:16:25 | 50.20 | 47.50 | 1,159 | 0.55 | 0.36 | 63.4 |
| 4/16/2015 22:16:25 | 50.53 | 47.83 | 1,153 | 0.51 | 0.40 | 63.1 |
| 4/16/2015 22:16:43 | 50.85 | 48.15 | 0 | 3.33 | 0.45 | 0.0 |
| 4/16/2015 22:16:43 | 51.18 | 48.48 | 137 | 4.15 | 0.46 | 7.5 |
| 4/16/2015 22:16:44 | 51.51 | 48.81 | 263 | 3.44 | 0.45 | 14.4 |
| 4/16/2015 22:16:44 | 51.84 | 49.14 | 419 | 3.16 | 0.44 | 22.9 |
| 4/16/2015 22:16:45 | 52.17 | 49.47 | 419 | 3.16 | 0.44 | 22.9 |
| 4/16/2015 22:16:45 | 52.49 | 49.79 | 627 | 3.20 | 0.44 | 34.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 22:16:45 | 52.82 | 50.12 | 824 | 3.92 | 0.48 | 45.1 |
| 4/16/2015 | 22:17:09 | 53.15 | 50.45 | 0 | 3.91 | 0.51 | 0.0 |
| 4/16/2015 | 22:17:26 | 53.48 | 50.78 | 29 | 4.16 | 0.54 | 1.6 |
| 4/16/2015 | 22:17:39 | 53.81 | 51.11 | 26 | 4.16 | 0.50 | 1.4 |
| 4/16/2015 | 22:17:52 | 54.13 | 51.43 | 29 | 4.16 | 0.50 | 1.6 |
| 4/16/2015 | 22:17:54 | 54.18 | 51.48 | 28 | 3.83 | 0.52 | 1.6 |

## B37 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:14:15

**End Date:**
4/16/2015 22:20:42

**Operator Note:**
'2.7 55.2 a Auto Complete'

**Northing:**
370,799.40

**Easting:**
259,709.70

**Tide (feet):**
2.70



## Hole: B38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:15:27 | 35.43 | 30.03 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 22:15:28 | 35.76 | 30.36 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 22:15:28 | 36.09 | 30.69 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 22:15:35 | 36.42 | 31.02 | 9 | 0.29 | 0.42 | 0.5 |
| 4/16/2015 22:15:36 | 36.75 | 31.35 | 161 | 0.29 | 0.42 | 8.8 |
| 4/16/2015 22:15:36 | 37.07 | 31.67 | 161 | 0.29 | 0.42 | 8.8 |
| 4/16/2015 22:15:36 | 37.40 | 32.00 | 349 | 0.29 | 0.42 | 19.1 |
| 4/16/2015 22:15:37 | 37.73 | 32.33 | 537 | 0.29 | 0.42 | 29.4 |
| 4/16/2015 22:15:37 | 38.06 | 32.66 | 726 | 0.29 | 0.42 | 39.7 |
| 4/16/2015 22:15:38 | 38.39 | 32.99 | 726 | 0.29 | 0.42 | 39.7 |
| 4/16/2015 22:15:38 | 38.71 | 33.31 | 905 | 0.29 | 0.42 | 49.5 |
| 4/16/2015 22:15:38 | 39.04 | 33.64 | 945 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 22:15:39 | 39.37 | 33.97 | 945 | 0.29 | 0.42 | 51.7 |
| 4/16/2015 22:15:39 | 39.70 | 34.30 | 948 | 0.29 | 0.42 | 51.8 |
| 4/16/2015 22:15:39 | 40.03 | 34.63 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 22:15:40 | 40.35 | 34.95 | 963 | 0.29 | 0.42 | 52.6 |
| 4/16/2015 22:15:40 | 40.68 | 35.28 | 963 | 0.29 | 0.42 | 52.6 |
| 4/16/2015 22:15:41 | 41.01 | 35.61 | 968 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 22:15:41 | 41.34 | 35.94 | 960 | 0.29 | 0.42 | 52.5 |
| 4/16/2015 22:15:42 | 41.67 | 36.27 | 960 | 0.29 | 0.42 | 52.5 |
| 4/16/2015 22:15:42 | 41.99 | 36.59 | 962 | 0.29 | 0.42 | 52.6 |
| 4/16/2015 22:15:42 | 42.32 | 36.92 | 960 | 0.29 | 0.42 | 52.5 |
| 4/16/2015 22:15:43 | 42.65 | 37.25 | 957 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 22:15:43 | 42.98 | 37.58 | 957 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 22:15:43 | 43.31 | 37.91 | 948 | 0.29 | 0.42 | 51.9 |
| 4/16/2015 22:15:44 | 43.64 | 38.24 | 956 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 22:15:44 | 43.96 | 38.56 | 956 | 0.29 | 0.42 | 52.3 |
| 4/16/2015 22:15:44 | 44.29 | 38.89 | 966 | 0.29 | 0.42 | 52.8 |
| 4/16/2015 22:15:45 | 44.62 | 39.22 | 966 | 0.29 | 0.42 | 52.8 |
| 4/16/2015 22:15:45 | 44.95 | 39.55 | 966 | 0.29 | 0.42 | 52.8 |
| 4/16/2015 22:15:46 | 45.28 | 39.88 | 966 | 0.29 | 0.42 | 52.8 |
| 4/16/2015 22:15:46 | 45.60 | 40.20 | 971 | 0.29 | 0.42 | 53.1 |
| 4/16/2015 22:15:46 | 45.93 | 40.53 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:15:47 | 46.26 | 40.86 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:15:47 | 46.59 | 41.19 | 974 | 0.29 | 0.42 | 53.3 |
| 4/16/2015 22:15:47 | 46.92 | 41.52 | 977 | 0.29 | 0.42 | 53.4 |
| 4/16/2015 22:15:48 | 47.24 | 41.84 | 974 | 0.29 | 0.42 | 53.3 |
| 4/16/2015 22:15:48 | 47.57 | 42.17 | 974 | 0.29 | 0.42 | 53.3 |
| 4/16/2015 22:15:48 | 47.90 | 42.50 | 983 | 0.29 | 0.42 | 53.7 |
| 4/16/2015 22:15:49 | 48.23 | 42.83 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 22:15:49 | 48.56 | 43.16 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 22:15:49 | 48.88 | 43.48 | 983 | 0.29 | 0.42 | 53.7 |
| 4/16/2015 22:15:50 | 49.21 | 43.81 | 983 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:15:50 | 49.54 | 44.14 | 983 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:15:50 | 49.87 | 44.47 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 22:15:51 | 50.20 | 44.80 | 989 | 0.29 | 0.42 | 54.1 |
| 4/16/2015 22:15:51 | 50.53 | 45.13 | 988 | 0.29 | 0.42 | 54.1 |
| 4/16/2015 22:15:52 | 50.85 | 45.45 | 988 | 0.29 | 0.42 | 54.1 |
| 4/16/2015 22:15:52 | 51.18 | 45.78 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 22:15:53 | 51.51 | 46.11 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:15:53 | 51.84 | 46.44 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:15:53 | 52.17 | 46.77 | 983 | 0.29 | 0.42 | 53.7 |
| 4/16/2015 22:17:00 | 52.49 | 47.09 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 22:17:01 | 52.82 | 47.42 | 122 | 0.29 | 0.42 | 6.7 |
| 4/16/2015 22:17:02 | 53.15 | 47.75 | 188 | 0.29 | 0.42 | 10.3 |
| 4/16/2015 22:17:04 | 53.48 | 48.08 | 239 | 0.29 | 0.42 | 13.1 |
| 4/16/2015 22:17:04 | 53.81 | 48.41 | 362 | 0.29 | 0.42 | 19.8 |
| 4/16/2015 22:17:05 | 54.13 | 48.73 | 470 | 0.29 | 0.42 | 25.7 |
| 4/16/2015 22:17:05 | 54.46 | 49.06 | 531 | 0.29 | 0.42 | 29.1 |
| 4/16/2015 22:17:06 | 54.79 | 49.39 | 622 | 0.29 | 0.42 | 34.0 |
| 4/16/2015 22:17:06 | 55.12 | 49.72 | 716 | 0.29 | 0.42 | 39.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 22:17:07 | 55.45 | 50.05 | 729 | 0.29 | 0.42 | 39.9 |
| 4/16/2015 | 22:17:07 | 55.77 | 50.37 | 739 | 0.29 | 0.42 | 40.4 |
| 4/16/2015 | 22:17:08 | 56.10 | 50.70 | 739 | 0.29 | 0.42 | 40.4 |
| 4/16/2015 | 22:17:08 | 56.43 | 51.03 | 745 | 0.29 | 0.42 | 40.7 |
| 4/16/2015 | 22:17:09 | 56.76 | 51.36 | 745 | 0.29 | 0.42 | 40.7 |
| 4/16/2015 | 22:17:11 | 57.09 | 51.69 | 456 | 0.29 | 0.42 | 24.9 |
| 4/16/2015 | 22:17:16 | 57.41 | 52.01 | 37 | 0.29 | 0.42 | 2.0 |
| 4/16/2015 | 22:17:20 | 57.74 | 52.34 | 84 | 0.29 | 0.42 | 4.6 |
| 4/16/2015 | 22:17:28 | 58.07 | 52.67 | 43 | 0.29 | 0.42 | 2.4 |
| 4/16/2015 | 22:17:33 | 58.40 | 53.00 | 67 | 0.29 | 0.42 | 3.6 |
| 4/16/2015 | 22:17:42 | 58.73 | 53.33 | 35 | 0.29 | 0.42 | 1.9 |
| 4/16/2015 | 22:17:51 | 59.06 | 53.66 | 32 | 0.29 | 0.42 | 1.8 |
| 4/16/2015 | 22:18:03 | 59.38 | 53.98 | 29 | 0.29 | 0.42 | 1.6 |
| 4/16/2015 | 22:18:14 | 59.71 | 54.31 | 32 | 0.29 | 0.42 | 1.8 |

## B38 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:11:28

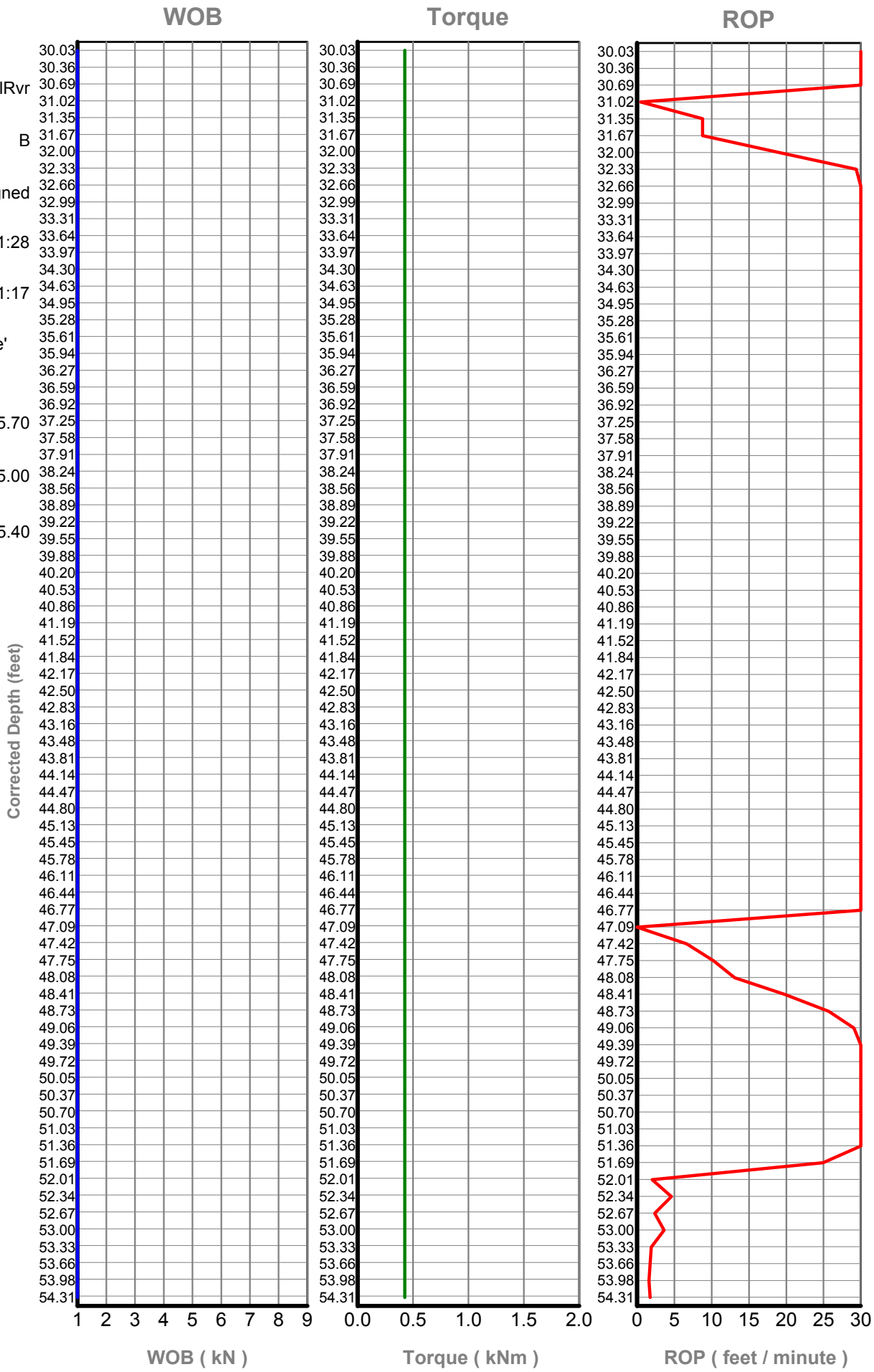
**End Date:**
4/16/2015 22:21:17

**Operator Note:**
'5.4 5.2 b Auto Complete'

**Northing:**
370,795.70

**Easting:**
259,785.00

**Tide (feet):**
5.40



## Hole: B39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:14:27 | 35.43 | 30.03 | 709 | 2.28 | 0.14 | 38.8 |
| 4/16/2015 22:14:28 | 35.76 | 30.36 | 708 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 22:14:28 | 36.09 | 30.69 | 723 | 2.27 | 0.14 | 39.5 |
| 4/16/2015 22:14:29 | 36.42 | 31.02 | 708 | 2.29 | 0.14 | 38.7 |
| 4/16/2015 22:14:29 | 36.75 | 31.35 | 713 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 22:14:30 | 37.07 | 31.67 | 704 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 22:14:30 | 37.40 | 32.00 | 711 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:31 | 37.73 | 32.33 | 709 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:31 | 38.06 | 32.66 | 711 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:32 | 38.39 | 32.99 | 707 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:32 | 38.71 | 33.31 | 718 | 2.28 | 0.14 | 39.3 |
| 4/16/2015 22:14:33 | 39.04 | 33.64 | 711 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 22:14:33 | 39.37 | 33.97 | 708 | 2.29 | 0.14 | 38.7 |
| 4/16/2015 22:14:34 | 39.70 | 34.30 | 711 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:34 | 40.03 | 34.63 | 711 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 22:14:35 | 40.35 | 34.95 | 704 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 22:14:35 | 40.68 | 35.28 | 708 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:36 | 41.01 | 35.61 | 707 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:37 | 41.34 | 35.94 | 711 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 22:14:37 | 41.67 | 36.27 | 700 | 2.27 | 0.14 | 38.3 |
| 4/16/2015 22:14:38 | 41.99 | 36.59 | 700 | 2.27 | 0.14 | 38.3 |
| 4/16/2015 22:14:38 | 42.32 | 36.92 | 704 | 2.28 | 0.14 | 38.5 |
| 4/16/2015 22:14:39 | 42.65 | 37.25 | 709 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:39 | 42.98 | 37.58 | 713 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 22:14:40 | 43.31 | 37.91 | 713 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 22:14:40 | 43.64 | 38.24 | 694 | 2.27 | 0.14 | 38.0 |
| 4/16/2015 22:14:40 | 43.96 | 38.56 | 710 | 2.27 | 0.14 | 38.8 |
| 4/16/2015 22:14:41 | 44.29 | 38.89 | 698 | 2.29 | 0.14 | 38.2 |
| 4/16/2015 22:14:41 | 44.62 | 39.22 | 693 | 2.27 | 0.14 | 37.9 |
| 4/16/2015 22:14:42 | 44.95 | 39.55 | 693 | 2.27 | 0.14 | 37.9 |
| 4/16/2015 22:14:42 | 45.28 | 39.88 | 696 | 2.28 | 0.14 | 38.0 |
| 4/16/2015 22:14:43 | 45.60 | 40.20 | 716 | 2.50 | 0.14 | 39.1 |
| 4/16/2015 22:14:43 | 45.93 | 40.53 | 700 | 2.27 | 0.14 | 38.3 |
| 4/16/2015 22:14:44 | 46.26 | 40.86 | 708 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 22:14:44 | 46.59 | 41.19 | 709 | 2.28 | 0.14 | 38.8 |
| 4/16/2015 22:14:45 | 46.92 | 41.52 | 706 | 2.27 | 0.14 | 38.6 |
| 4/16/2015 22:14:46 | 47.24 | 41.84 | 706 | 2.27 | 0.14 | 38.6 |
| 4/16/2015 22:14:46 | 47.57 | 42.17 | 697 | 2.28 | 0.14 | 38.1 |
| 4/16/2015 22:14:46 | 47.90 | 42.50 | 714 | 2.29 | 0.14 | 39.0 |
| 4/16/2015 22:14:47 | 48.23 | 42.83 | 714 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 22:14:48 | 48.56 | 43.16 | 712 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 22:14:48 | 48.88 | 43.48 | 712 | 2.29 | 0.14 | 38.9 |
| 4/16/2015 22:14:49 | 49.21 | 43.81 | 717 | 2.28 | 0.14 | 39.2 |
| 4/16/2015 22:14:49 | 49.54 | 44.14 | 712 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:50 | 49.87 | 44.47 | 697 | 2.27 | 0.14 | 38.1 |
| 4/16/2015 22:14:50 | 50.20 | 44.80 | 697 | 2.27 | 0.14 | 38.1 |
| 4/16/2015 22:14:51 | 50.53 | 45.13 | 696 | 2.28 | 0.14 | 38.1 |
| 4/16/2015 22:14:51 | 50.85 | 45.45 | 706 | 2.27 | 0.14 | 38.6 |
| 4/16/2015 22:14:52 | 51.18 | 45.78 | 700 | 2.27 | 0.14 | 38.3 |
| 4/16/2015 22:14:52 | 51.51 | 46.11 | 707 | 2.27 | 0.14 | 38.7 |
| 4/16/2015 22:14:53 | 51.84 | 46.44 | 712 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:53 | 52.17 | 46.77 | 714 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 22:14:54 | 52.49 | 47.09 | 712 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 22:14:54 | 52.82 | 47.42 | 704 | 2.28 | 0.14 | 38.5 |
| 4/16/2015 22:14:55 | 53.15 | 47.75 | 699 | 2.28 | 0.14 | 38.2 |
| 4/16/2015 22:14:55 | 53.48 | 48.08 | 698 | 2.29 | 0.14 | 38.2 |
| 4/16/2015 22:14:56 | 53.81 | 48.41 | 698 | 2.28 | 0.14 | 38.2 |
| 4/16/2015 22:14:56 | 54.13 | 48.73 | 701 | 2.29 | 0.14 | 38.3 |
| 4/16/2015 22:14:57 | 54.46 | 49.06 | 680 | 2.34 | 0.14 | 37.2 |
| 4/16/2015 22:14:58 | 54.79 | 49.39 | 643 | 2.40 | 0.14 | 35.2 |
| 4/16/2015 22:15:22 | 55.12 | 49.72 | 0 | 2.29 | 1.01 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 22:15:22 | 55.45 | 50.05 | 137 | 2.29 | 1.02 | 7.5 |
| 4/16/2015 | 22:15:23 | 55.77 | 50.37 | 261 | 2.32 | 1.14 | 14.3 |
| 4/16/2015 | 22:15:24 | 56.10 | 50.70 | 377 | 2.31 | 1.04 | 20.6 |
| 4/16/2015 | 22:15:24 | 56.43 | 51.03 | 377 | 2.32 | 1.04 | 20.6 |
| 4/16/2015 | 22:15:25 | 56.76 | 51.36 | 488 | 2.32 | 1.04 | 26.7 |
| 4/16/2015 | 22:15:25 | 57.09 | 51.69 | 610 | 2.32 | 1.04 | 33.3 |
| 4/16/2015 | 22:15:26 | 57.41 | 52.01 | 610 | 2.33 | 1.04 | 33.3 |
| 4/16/2015 | 22:15:27 | 57.74 | 52.34 | 585 | 2.36 | 1.12 | 32.0 |
| 4/16/2015 | 22:15:28 | 58.07 | 52.67 | 500 | 2.41 | 1.24 | 27.4 |
| 4/16/2015 | 22:15:32 | 58.40 | 53.00 | 122 | 2.31 | 1.11 | 6.7 |
| 4/16/2015 | 22:15:38 | 58.73 | 53.33 | 27 | 2.44 | 1.29 | 1.5 |
| 4/16/2015 | 22:15:39 | 59.06 | 53.66 | 97 | 2.42 | 1.40 | 5.3 |
| 4/16/2015 | 22:15:58 | 59.38 | 53.98 | 0 | 2.36 | 1.17 | 0.0 |
| 4/16/2015 | 22:15:58 | 59.71 | 54.31 | 71 | 2.31 | 1.14 | 3.9 |
| 4/16/2015 | 22:16:00 | 60.04 | 54.64 | 291 | 2.35 | 1.09 | 15.9 |
| 4/16/2015 | 22:16:00 | 60.37 | 54.97 | 400 | 2.36 | 1.09 | 21.9 |
| 4/16/2015 | 22:16:01 | 60.68 | 55.28 | 503 | 2.38 | 1.11 | 27.5 |

## B39 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:12:14

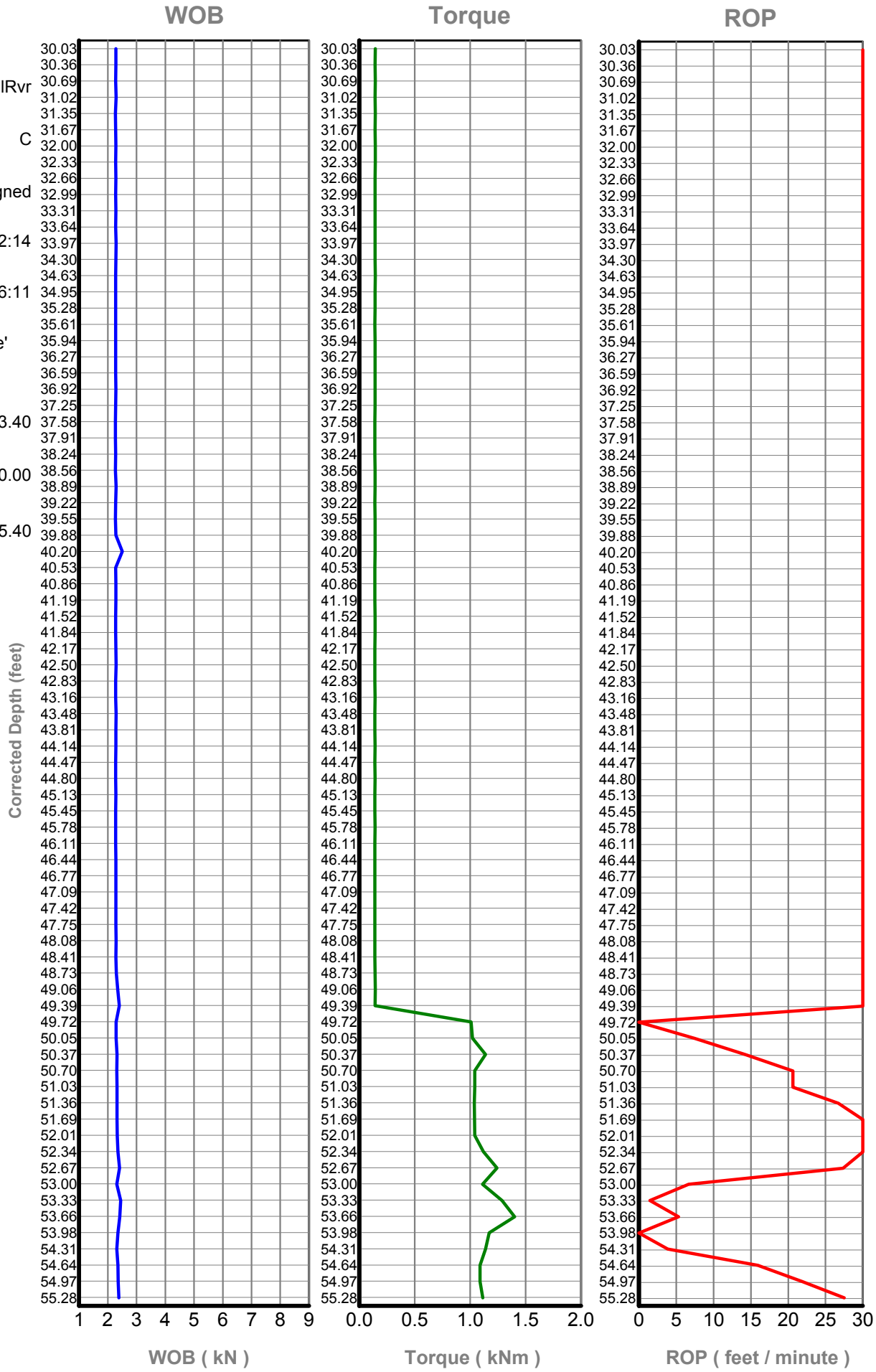
**End Date:**
4/16/2015 22:16:11

**Operator Note:**
'5.4 5.2 c Auto Complete'

**Northing:**
370,793.40

**Easting:**
259,860.00

**Tide (feet):**
5.40



## Hole: B4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 3:28:14 | 33.46 | 30.26 | 595 | 2.16 | 0.15 | 32.5 |
| 4/17/2015 3:28:15 | 33.79 | 30.59 | 601 | 2.16 | 0.15 | 32.9 |
| 4/17/2015 3:28:16 | 34.12 | 30.92 | 596 | 2.17 | 0.15 | 32.6 |
| 4/17/2015 3:28:16 | 34.45 | 31.25 | 598 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 3:28:17 | 34.78 | 31.58 | 601 | 2.17 | 0.15 | 32.9 |
| 4/17/2015 3:28:17 | 35.11 | 31.91 | 585 | 2.17 | 0.15 | 32.0 |
| 4/17/2015 3:28:18 | 35.43 | 32.23 | 596 | 2.17 | 0.15 | 32.6 |
| 4/17/2015 3:28:18 | 35.76 | 32.56 | 598 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 3:28:19 | 36.09 | 32.89 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:20 | 36.42 | 33.22 | 603 | 2.16 | 0.15 | 33.0 |
| 4/17/2015 3:28:20 | 36.75 | 33.55 | 603 | 2.15 | 0.15 | 33.0 |
| 4/17/2015 3:28:21 | 37.07 | 33.87 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:21 | 37.40 | 34.20 | 600 | 2.17 | 0.15 | 32.8 |
| 4/17/2015 3:28:22 | 37.73 | 34.53 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:22 | 38.06 | 34.86 | 605 | 2.16 | 0.17 | 33.1 |
| 4/17/2015 3:28:23 | 38.39 | 35.19 | 595 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 3:28:24 | 38.71 | 35.51 | 595 | 2.16 | 0.15 | 32.5 |
| 4/17/2015 3:28:25 | 39.04 | 35.84 | 602 | 2.17 | 0.15 | 32.9 |
| 4/17/2015 3:28:25 | 39.37 | 36.17 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:26 | 39.70 | 36.50 | 599 | 2.16 | 0.15 | 32.8 |
| 4/17/2015 3:28:26 | 40.03 | 36.83 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:27 | 40.35 | 37.15 | 598 | 2.17 | 0.15 | 32.7 |
| 4/17/2015 3:28:27 | 40.68 | 37.48 | 580 | 2.17 | 0.15 | 31.7 |
| 4/17/2015 3:28:28 | 41.01 | 37.81 | 590 | 2.16 | 0.15 | 32.3 |
| 4/17/2015 3:28:29 | 41.34 | 38.14 | 593 | 2.15 | 0.15 | 32.4 |
| 4/17/2015 3:28:29 | 41.67 | 38.47 | 593 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 3:28:30 | 41.99 | 38.79 | 594 | 2.15 | 0.15 | 32.5 |
| 4/17/2015 3:28:30 | 42.32 | 39.12 | 606 | 2.12 | 0.15 | 33.2 |
| 4/17/2015 3:28:31 | 42.65 | 39.45 | 598 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 3:28:32 | 42.98 | 39.78 | 595 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 3:28:32 | 43.31 | 40.11 | 592 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 3:28:33 | 43.64 | 40.44 | 591 | 2.17 | 0.15 | 32.3 |
| 4/17/2015 3:28:33 | 43.96 | 40.76 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:34 | 44.29 | 41.09 | 596 | 2.14 | 0.15 | 32.6 |
| 4/17/2015 3:28:35 | 44.62 | 41.42 | 596 | 2.15 | 0.15 | 32.6 |
| 4/17/2015 3:28:35 | 44.95 | 41.75 | 592 | 2.17 | 0.15 | 32.4 |
| 4/17/2015 3:28:36 | 45.28 | 42.08 | 593 | 2.16 | 0.15 | 32.4 |
| 4/17/2015 3:28:37 | 45.60 | 42.40 | 589 | 2.15 | 0.15 | 32.2 |
| 4/17/2015 3:28:37 | 45.93 | 42.73 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:38 | 46.26 | 43.06 | 599 | 2.16 | 0.15 | 32.8 |
| 4/17/2015 3:28:38 | 46.59 | 43.39 | 596 | 2.44 | 0.15 | 32.6 |
| 4/17/2015 3:28:39 | 46.92 | 43.72 | 596 | 2.16 | 0.15 | 32.6 |
| 4/17/2015 3:28:39 | 47.24 | 44.04 | 598 | 2.16 | 0.15 | 32.7 |
| 4/17/2015 3:28:40 | 47.57 | 44.37 | 580 | 2.17 | 0.15 | 31.7 |
| 4/17/2015 3:29:04 | 47.90 | 44.70 | 0 | 2.17 | 1.05 | 0.0 |
| 4/17/2015 3:29:05 | 48.23 | 45.03 | 57 | 2.17 | 1.04 | 3.1 |
| 4/17/2015 3:29:06 | 48.56 | 45.36 | 172 | 2.19 | 1.15 | 9.4 |
| 4/17/2015 3:29:10 | 48.88 | 45.68 | 11 | 2.16 | 1.30 | 0.6 |
| 4/17/2015 3:29:19 | 49.21 | 46.01 | 96 | 2.33 | 1.47 | 5.3 |
| 4/17/2015 3:29:21 | 49.54 | 46.34 | 159 | 2.31 | 1.28 | 8.7 |
| 4/17/2015 3:29:28 | 49.87 | 46.67 | 118 | 2.23 | 1.11 | 6.5 |
| 4/17/2015 3:29:29 | 50.20 | 47.00 | 192 | 2.27 | 1.11 | 10.5 |
| 4/17/2015 3:29:30 | 50.53 | 47.33 | 363 | 2.28 | 1.14 | 19.8 |
| 4/17/2015 3:29:31 | 50.85 | 47.65 | 413 | 2.31 | 1.38 | 22.6 |
| 4/17/2015 3:29:34 | 51.18 | 47.98 | 113 | 2.32 | 1.43 | 6.2 |
| 4/17/2015 3:29:42 | 51.51 | 48.31 | 53 | 2.25 | 1.15 | 2.9 |
| 4/17/2015 3:29:43 | 51.84 | 48.64 | 198 | 2.31 | 1.35 | 10.8 |
| 4/17/2015 3:29:45 | 52.17 | 48.97 | 319 | 2.32 | 1.25 | 17.4 |
| 4/17/2015 3:29:47 | 52.49 | 49.29 | 124 | 2.27 | 1.18 | 6.8 |
| 4/17/2015 3:29:48 | 52.82 | 49.62 | 217 | 2.29 | 1.22 | 11.9 |
| 4/17/2015 3:29:50 | 53.15 | 49.95 | 255 | 2.37 | 1.53 | 14.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 3:30:26 | 53.48 | 50.28 | 113 | 2.35 | 1.53 | 6.2 |
| 4/17/2015 | 3:30:28 | 53.81 | 50.61 | 179 | 2.31 | 1.45 | 9.8 |
| 4/17/2015 | 3:30:29 | 54.13 | 50.93 | 224 | 2.33 | 1.27 | 12.2 |
| 4/17/2015 | 3:30:31 | 54.46 | 51.26 | 235 | 2.35 | 1.36 | 12.9 |
| 4/17/2015 | 3:30:52 | 54.52 | 51.32 | 0 | 2.31 | 1.53 | 0.0 |

## B4 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 3:26:31

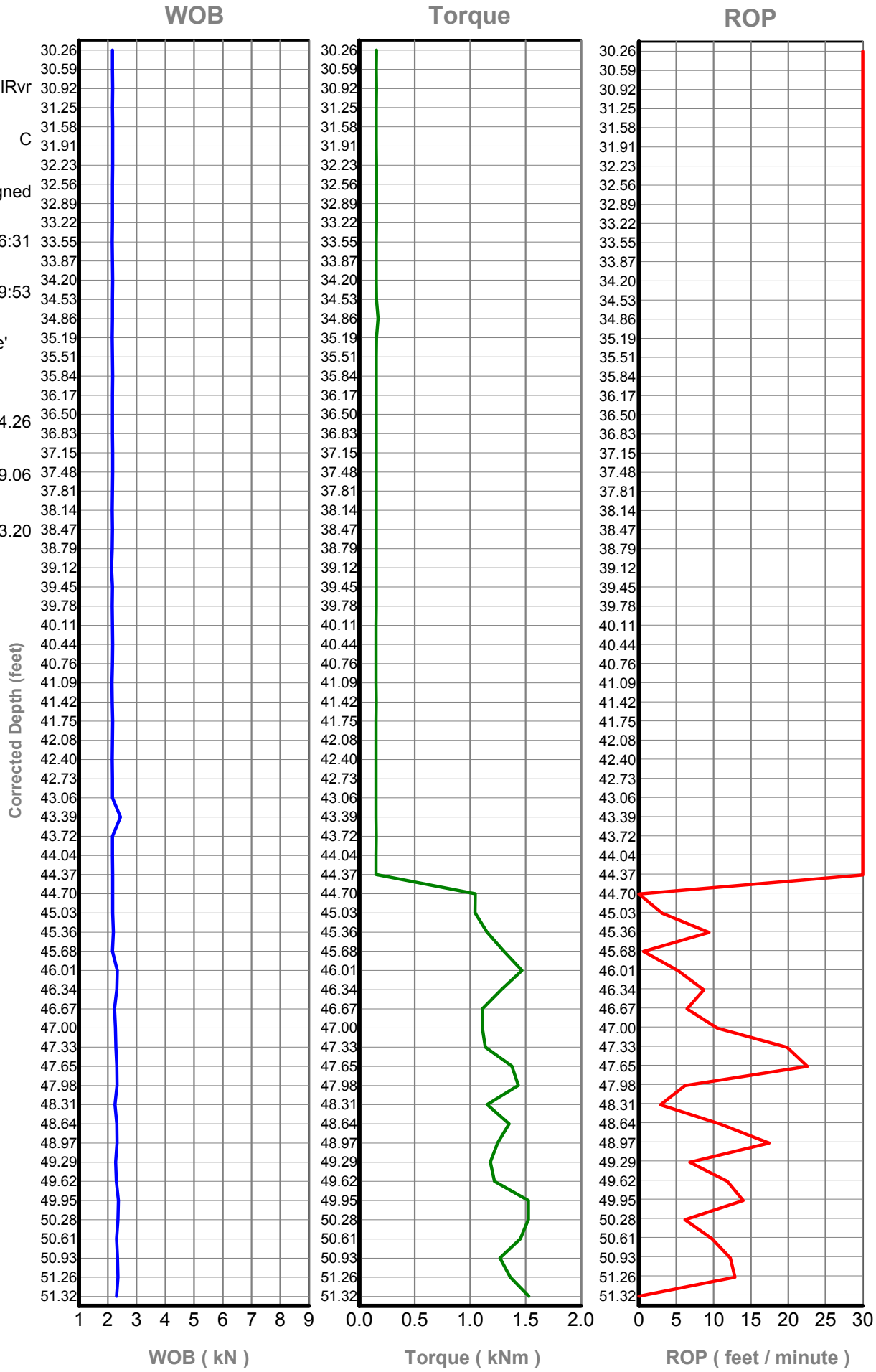
**End Date:**
4/17/2015 3:39:53

**Operator Note:**
'3.2 3.6 c Auto Complete'

**Northing:**
371,104.26

**Easting:**
259,649.06

**Tide (feet):**
3.20



## Hole: B40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:24:54 | 36.42 | 30.22 | 971 | 0.29 | 0.42 | 53.1 |
| 4/16/2015 23:24:54 | 36.75 | 30.55 | 968 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 23:24:55 | 37.07 | 30.87 | 968 | 0.29 | 0.42 | 53.0 |
| 4/16/2015 23:25:35 | 37.40 | 31.20 | 20 | 0.29 | 0.42 | 1.1 |
| 4/16/2015 23:25:35 | 37.73 | 31.53 | 196 | 0.29 | 0.42 | 10.7 |
| 4/16/2015 23:25:36 | 38.06 | 31.86 | 196 | 0.29 | 0.42 | 10.7 |
| 4/16/2015 23:25:36 | 38.39 | 32.19 | 379 | 0.29 | 0.42 | 20.7 |
| 4/16/2015 23:25:36 | 38.71 | 32.51 | 556 | 0.29 | 0.42 | 30.4 |
| 4/16/2015 23:25:37 | 39.04 | 32.84 | 739 | 0.29 | 0.42 | 40.4 |
| 4/16/2015 23:25:37 | 39.37 | 33.17 | 739 | 0.29 | 0.42 | 40.4 |
| 4/16/2015 23:25:37 | 39.70 | 33.50 | 904 | 0.29 | 0.42 | 49.4 |
| 4/16/2015 23:25:38 | 40.03 | 33.83 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:25:39 | 40.35 | 34.15 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:25:39 | 40.68 | 34.48 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:25:39 | 41.01 | 34.81 | 933 | 0.29 | 0.42 | 51.0 |
| 4/16/2015 23:25:40 | 41.34 | 35.14 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 23:25:40 | 41.67 | 35.47 | 928 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 23:25:40 | 41.99 | 35.79 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 23:25:41 | 42.32 | 36.12 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:25:41 | 42.65 | 36.45 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:25:42 | 42.98 | 36.78 | 919 | 0.29 | 0.42 | 50.3 |
| 4/16/2015 23:25:42 | 43.31 | 37.11 | 916 | 0.29 | 0.42 | 50.1 |
| 4/16/2015 23:25:42 | 43.64 | 37.44 | 919 | 0.29 | 0.42 | 50.2 |
| 4/16/2015 23:25:43 | 43.96 | 37.76 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:25:43 | 44.29 | 38.09 | 922 | 0.29 | 0.42 | 50.4 |
| 4/16/2015 23:25:43 | 44.62 | 38.42 | 927 | 0.29 | 0.42 | 50.7 |
| 4/16/2015 23:25:44 | 44.95 | 38.75 | 934 | 0.29 | 0.42 | 51.1 |
| 4/16/2015 23:25:44 | 45.28 | 39.08 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 23:25:45 | 45.60 | 39.40 | 931 | 0.29 | 0.42 | 50.9 |
| 4/16/2015 23:25:45 | 45.93 | 39.73 | 948 | 0.29 | 0.42 | 51.9 |
| 4/16/2015 23:25:45 | 46.26 | 40.06 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 23:25:46 | 46.59 | 40.39 | 951 | 0.29 | 0.42 | 52.0 |
| 4/16/2015 23:25:46 | 46.92 | 40.72 | 949 | 0.29 | 0.42 | 51.9 |
| 4/16/2015 23:25:46 | 47.24 | 41.04 | 954 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 23:25:47 | 47.57 | 41.37 | 963 | 0.29 | 0.42 | 52.7 |
| 4/16/2015 23:25:47 | 47.90 | 41.70 | 963 | 0.29 | 0.42 | 52.7 |
| 4/16/2015 23:25:47 | 48.23 | 42.03 | 969 | 0.29 | 0.42 | 53.0 |
| 4/16/2015 23:25:48 | 48.56 | 42.36 | 958 | 0.29 | 0.42 | 52.4 |
| 4/16/2015 23:25:48 | 48.88 | 42.68 | 958 | 0.29 | 0.42 | 52.4 |
| 4/16/2015 23:25:48 | 49.21 | 43.01 | 975 | 0.29 | 0.42 | 53.3 |
| 4/16/2015 23:25:49 | 49.54 | 43.34 | 978 | 0.29 | 0.42 | 53.5 |
| 4/16/2015 23:25:49 | 49.87 | 43.67 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 23:25:50 | 50.20 | 44.00 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 23:25:50 | 50.53 | 44.33 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 23:25:51 | 50.85 | 44.65 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 23:25:51 | 51.18 | 44.98 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 23:25:51 | 51.51 | 45.31 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 23:25:52 | 51.84 | 45.64 | 983 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 23:25:52 | 52.17 | 45.97 | 983 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 23:25:52 | 52.49 | 46.29 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 23:25:53 | 52.82 | 46.62 | 968 | 0.29 | 0.42 | 53.0 |
| 4/16/2015 23:25:53 | 53.15 | 46.95 | 968 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 23:25:54 | 53.48 | 47.28 | 968 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 23:25:54 | 53.81 | 47.61 | 955 | 0.29 | 0.42 | 52.2 |
| 4/16/2015 23:26:33 | 54.13 | 47.93 | 24 | 0.29 | 0.42 | 1.3 |
| 4/16/2015 23:26:34 | 54.46 | 48.26 | 236 | 0.29 | 0.42 | 12.9 |
| 4/16/2015 23:26:34 | 54.79 | 48.59 | 339 | 0.29 | 0.42 | 18.5 |
| 4/16/2015 23:26:35 | 55.12 | 48.92 | 436 | 0.29 | 0.42 | 23.8 |
| 4/16/2015 23:26:35 | 55.45 | 49.25 | 547 | 0.29 | 0.42 | 29.9 |
| 4/16/2015 23:26:38 | 55.77 | 49.57 | 359 | 0.29 | 0.42 | 19.6 |
| 4/16/2015 23:26:39 | 56.10 | 49.90 | 188 | 0.29 | 0.42 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 23:26:50 | 56.43 | 50.23 | 20 | 0.29 | 0.42 | 1.1 |
| 4/16/2015 | 23:26:54 | 56.76 | 50.56 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 | 23:26:55 | 57.09 | 50.89 | 212 | 0.29 | 0.42 | 11.6 |
| 4/16/2015 | 23:26:59 | 57.41 | 51.21 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 23:27:10 | 57.74 | 51.54 | 23 | 0.29 | 0.42 | 1.3 |
| 4/16/2015 | 23:27:23 | 58.07 | 51.87 | 82 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 | 23:27:30 | 58.40 | 52.20 | 9 | 0.29 | 0.42 | 0.5 |
| 4/16/2015 | 23:27:33 | 58.73 | 52.53 | 117 | 0.29 | 0.42 | 6.4 |
| 4/16/2015 | 23:27:36 | 59.06 | 52.86 | 102 | 0.29 | 0.42 | 5.6 |
| 4/16/2015 | 23:27:40 | 59.38 | 53.18 | 105 | 0.29 | 0.42 | 5.8 |
| 4/16/2015 | 23:27:42 | 59.71 | 53.51 | 133 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 | 23:27:45 | 60.04 | 53.84 | 131 | 0.29 | 0.42 | 7.2 |
| 4/16/2015 | 23:27:49 | 60.37 | 54.17 | 91 | 0.29 | 0.42 | 5.0 |
| 4/16/2015 | 23:27:52 | 60.70 | 54.50 | 91 | 0.29 | 0.42 | 4.9 |
| 4/16/2015 | 23:27:57 | 61.02 | 54.82 | 80 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 | 23:28:03 | 61.33 | 55.13 | 21 | 0.29 | 0.42 | 1.2 |

## B40 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:20:27

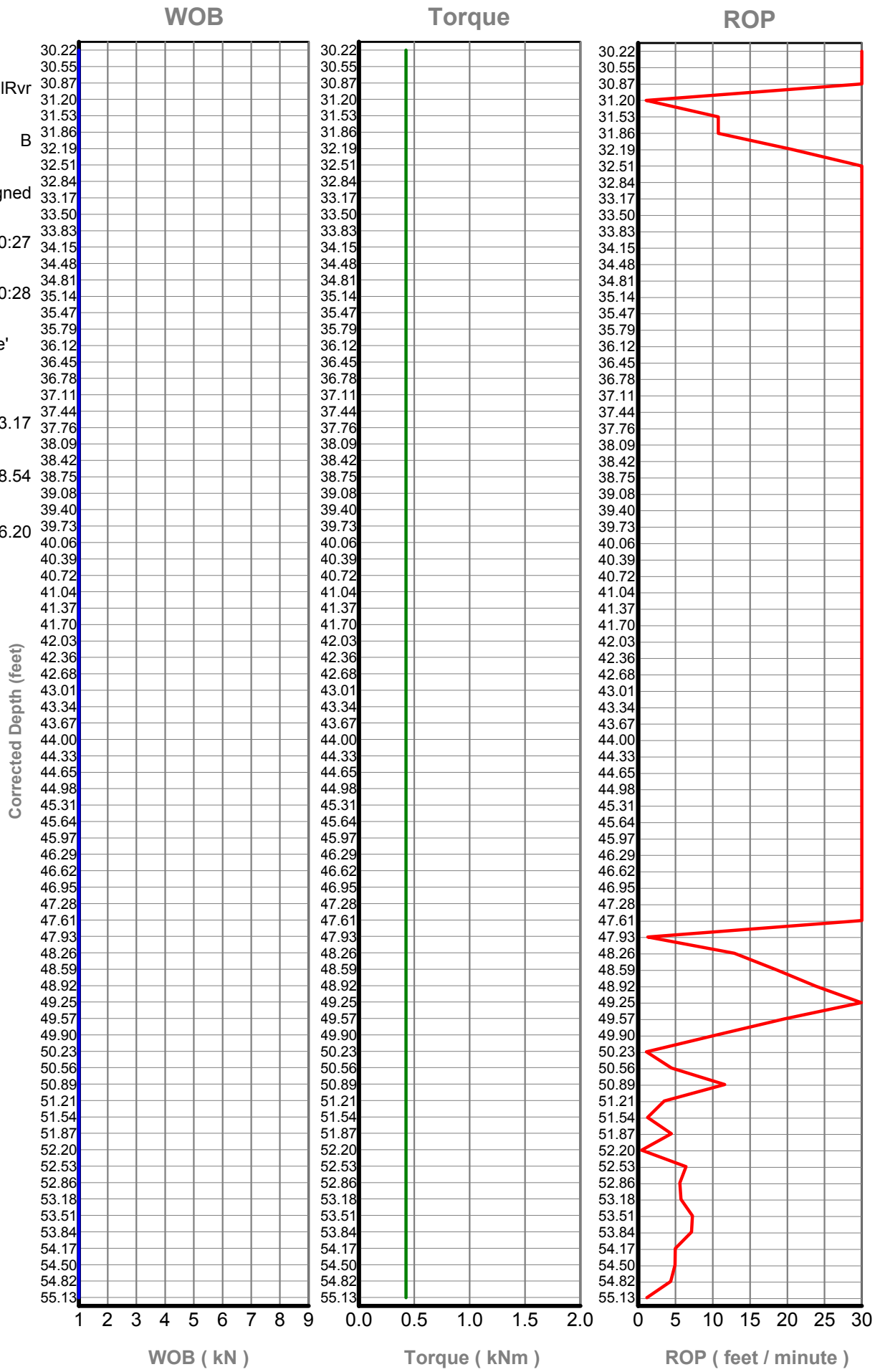
**End Date:**
4/16/2015 23:30:28

**Operator Note:**
'6.2 6.3 b Auto Complete'

**Northing:**
370,733.17

**Easting:**
259,558.54

**Tide (feet):**
6.20



## Hole: B41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:24:00 | 36.42 | 30.22 | 705 | 2.28 | 0.14 | 38.5 |
| 4/16/2015 23:24:00 | 36.75 | 30.55 | 712 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 23:24:01 | 37.07 | 30.87 | 712 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 23:24:02 | 37.40 | 31.20 | 713 | 2.28 | 0.15 | 39.0 |
| 4/16/2015 23:24:02 | 37.73 | 31.53 | 704 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 23:24:03 | 38.06 | 31.86 | 716 | 2.29 | 0.14 | 39.1 |
| 4/16/2015 23:24:03 | 38.39 | 32.19 | 708 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 23:24:04 | 38.71 | 32.51 | 708 | 2.29 | 0.14 | 38.7 |
| 4/16/2015 23:24:04 | 39.04 | 32.84 | 708 | 2.29 | 0.14 | 38.7 |
| 4/16/2015 23:24:04 | 39.37 | 33.17 | 711 | 2.29 | 0.14 | 38.9 |
| 4/16/2015 23:24:05 | 39.70 | 33.50 | 714 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 23:24:05 | 40.03 | 33.83 | 711 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 23:24:06 | 40.35 | 34.15 | 711 | 2.27 | 0.14 | 38.9 |
| 4/16/2015 23:24:06 | 40.68 | 34.48 | 707 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 23:24:07 | 41.01 | 34.81 | 711 | 2.29 | 0.14 | 38.9 |
| 4/16/2015 23:24:07 | 41.34 | 35.14 | 711 | 2.28 | 0.14 | 38.9 |
| 4/16/2015 23:24:08 | 41.67 | 35.47 | 708 | 2.28 | 0.14 | 38.7 |
| 4/16/2015 23:24:08 | 41.99 | 35.79 | 708 | 2.29 | 0.13 | 38.7 |
| 4/16/2015 23:24:09 | 42.32 | 36.12 | 699 | 2.28 | 0.14 | 38.2 |
| 4/16/2015 23:24:09 | 42.65 | 36.45 | 699 | 2.27 | 0.14 | 38.2 |
| 4/16/2015 23:24:10 | 42.98 | 36.78 | 702 | 2.28 | 0.14 | 38.4 |
| 4/16/2015 23:24:10 | 43.31 | 37.11 | 699 | 2.29 | 0.14 | 38.2 |
| 4/16/2015 23:24:11 | 43.64 | 37.44 | 698 | 2.27 | 0.14 | 38.2 |
| 4/16/2015 23:24:12 | 43.96 | 37.76 | 703 | 2.28 | 0.14 | 38.4 |
| 4/16/2015 23:24:12 | 44.29 | 38.09 | 703 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 23:24:13 | 44.62 | 38.42 | 703 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 23:24:13 | 44.95 | 38.75 | 703 | 2.27 | 0.14 | 38.4 |
| 4/16/2015 23:24:14 | 45.28 | 39.08 | 707 | 2.29 | 0.14 | 38.7 |
| 4/16/2015 23:24:14 | 45.60 | 39.40 | 704 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 23:24:15 | 45.93 | 39.73 | 700 | 2.28 | 0.14 | 38.3 |
| 4/16/2015 23:24:15 | 46.26 | 40.06 | 715 | 2.28 | 0.14 | 39.1 |
| 4/16/2015 23:24:16 | 46.59 | 40.39 | 705 | 2.28 | 0.14 | 38.5 |
| 4/16/2015 23:24:16 | 46.92 | 40.72 | 706 | 2.28 | 0.14 | 38.6 |
| 4/16/2015 23:24:17 | 47.24 | 41.04 | 709 | 2.28 | 0.14 | 38.8 |
| 4/16/2015 23:24:17 | 47.57 | 41.37 | 713 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 23:24:18 | 47.90 | 41.70 | 706 | 2.29 | 0.14 | 38.6 |
| 4/16/2015 23:24:18 | 48.23 | 42.03 | 710 | 2.29 | 0.14 | 38.8 |
| 4/16/2015 23:24:19 | 48.56 | 42.36 | 701 | 2.28 | 0.14 | 38.3 |
| 4/16/2015 23:24:19 | 48.88 | 42.68 | 705 | 2.27 | 0.14 | 38.6 |
| 4/16/2015 23:24:20 | 49.21 | 43.01 | 705 | 2.28 | 0.14 | 38.6 |
| 4/16/2015 23:24:20 | 49.54 | 43.34 | 703 | 2.29 | 0.14 | 38.4 |
| 4/16/2015 23:24:21 | 49.87 | 43.67 | 703 | 2.29 | 0.14 | 38.4 |
| 4/16/2015 23:24:21 | 50.20 | 44.00 | 703 | 2.28 | 0.14 | 38.4 |
| 4/16/2015 23:24:22 | 50.53 | 44.33 | 702 | 2.28 | 0.14 | 38.4 |
| 4/16/2015 23:24:22 | 50.85 | 44.65 | 706 | 2.28 | 0.14 | 38.6 |
| 4/16/2015 23:24:23 | 51.18 | 44.98 | 706 | 2.29 | 0.14 | 38.6 |
| 4/16/2015 23:24:23 | 51.51 | 45.31 | 705 | 2.29 | 0.14 | 38.5 |
| 4/16/2015 23:24:24 | 51.84 | 45.64 | 709 | 2.30 | 0.14 | 38.8 |
| 4/16/2015 23:24:28 | 52.17 | 45.97 | 0 | 2.46 | 0.13 | 0.0 |
| 4/16/2015 23:24:43 | 52.49 | 46.29 | 94 | 2.29 | 1.05 | 5.1 |
| 4/16/2015 23:24:43 | 52.82 | 46.62 | 226 | 2.29 | 1.04 | 12.3 |
| 4/16/2015 23:24:44 | 53.15 | 46.95 | 364 | 2.29 | 1.04 | 19.9 |
| 4/16/2015 23:24:44 | 53.48 | 47.28 | 495 | 2.30 | 1.06 | 27.1 |
| 4/16/2015 23:24:45 | 53.81 | 47.61 | 602 | 2.30 | 1.07 | 32.9 |
| 4/16/2015 23:24:45 | 54.13 | 47.93 | 602 | 2.31 | 1.07 | 32.9 |
| 4/16/2015 23:24:46 | 54.46 | 48.26 | 640 | 2.31 | 1.07 | 35.0 |
| 4/16/2015 23:24:46 | 54.79 | 48.59 | 628 | 2.32 | 1.07 | 34.4 |
| 4/16/2015 23:24:47 | 55.12 | 48.92 | 593 | 2.34 | 1.05 | 32.5 |
| 4/16/2015 23:24:48 | 55.45 | 49.25 | 601 | 2.34 | 1.06 | 32.9 |
| 4/16/2015 23:24:48 | 55.77 | 49.57 | 584 | 2.32 | 1.04 | 31.9 |
| 4/16/2015 23:24:49 | 56.10 | 49.90 | 581 | 2.31 | 1.05 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 23:24:49 | 56.43 | 50.23 | 571 | 2.34 | 1.08 | 31.2 |
| 4/16/2015 | 23:24:53 | 56.76 | 50.56 | 61 | 2.40 | 1.06 | 3.3 |
| 4/16/2015 | 23:25:16 | 57.09 | 50.89 | 35 | 2.53 | 1.25 | 1.9 |
| 4/16/2015 | 23:25:27 | 57.41 | 51.21 | 36 | 2.55 | 1.25 | 2.0 |
| 4/16/2015 | 23:25:29 | 57.49 | 51.29 | 35 | 2.53 | 1.24 | 1.9 |

## B41 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:20:20

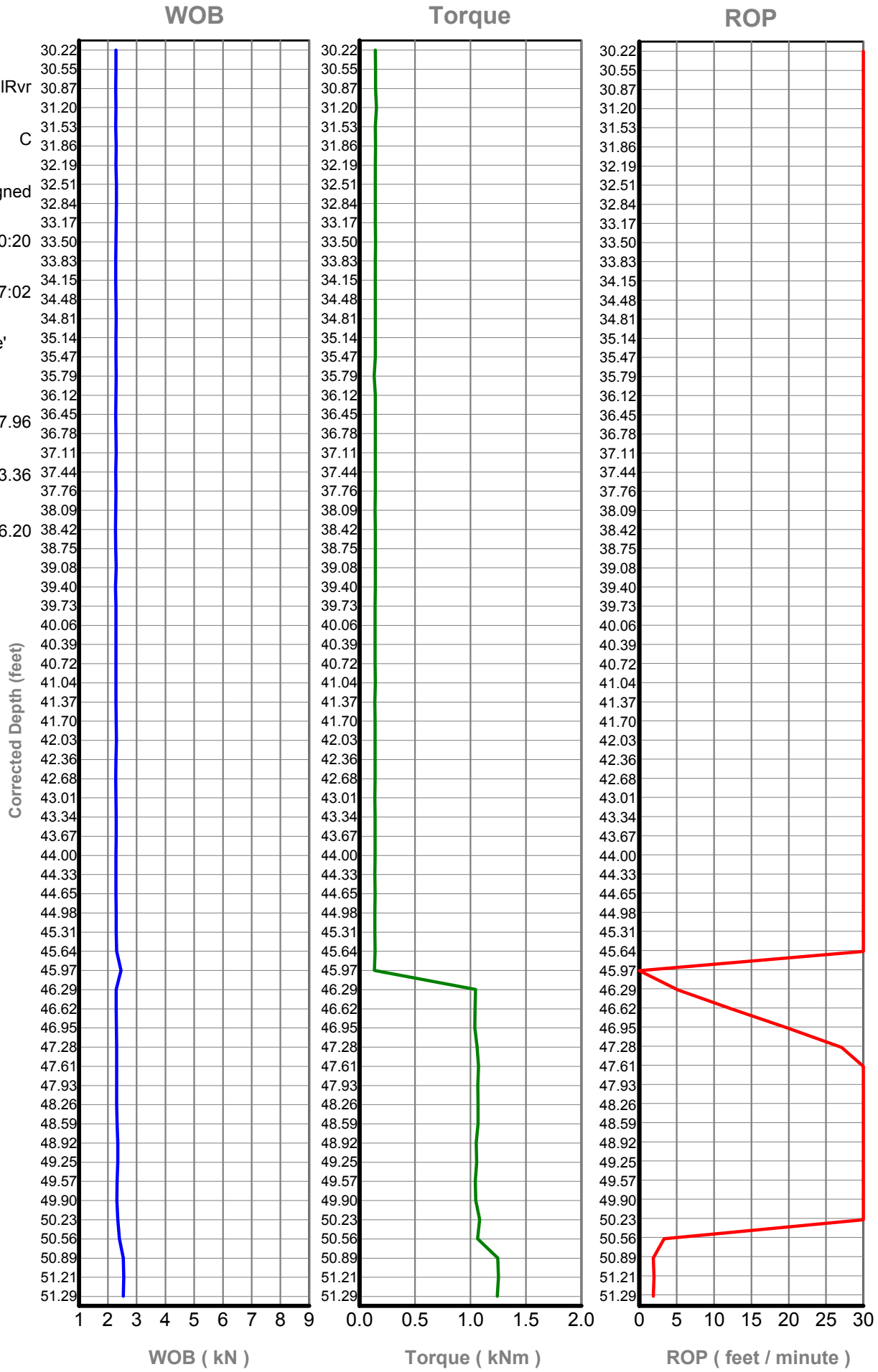
**End Date:**
4/16/2015 23:27:02

**Operator Note:**
'6.2 6.3C Auto Complete'

**Northing:**
370,727.96

**Easting:**
259,633.36

**Tide (feet):**
6.20



## Hole: B42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:46:35 | 36.09 | 30.29 | 1,102 | 0.55 | 0.35 | 60.3 |
| 4/16/2015 22:46:35 | 36.42 | 30.62 | 1,102 | 0.55 | 0.35 | 60.3 |
| 4/16/2015 22:46:35 | 36.75 | 30.95 | 1,102 | 0.56 | 0.35 | 60.3 |
| 4/16/2015 22:46:36 | 37.07 | 31.27 | 1,116 | 0.54 | 0.36 | 61.0 |
| 4/16/2015 22:46:36 | 37.40 | 31.60 | 1,116 | 0.54 | 0.36 | 61.0 |
| 4/16/2015 22:46:36 | 37.73 | 31.93 | 1,116 | 0.55 | 0.34 | 61.0 |
| 4/16/2015 22:46:37 | 38.06 | 32.26 | 1,116 | 0.55 | 0.34 | 61.0 |
| 4/16/2015 22:46:37 | 38.39 | 32.59 | 1,119 | 0.55 | 0.35 | 61.2 |
| 4/16/2015 22:46:37 | 38.71 | 32.91 | 1,119 | 0.56 | 0.35 | 61.2 |
| 4/16/2015 22:46:38 | 39.04 | 33.24 | 1,119 | 0.56 | 0.35 | 61.2 |
| 4/16/2015 22:46:38 | 39.37 | 33.57 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 22:46:38 | 39.70 | 33.90 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 22:46:38 | 40.03 | 34.23 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 22:46:39 | 40.35 | 34.55 | 1,118 | 0.57 | 0.35 | 61.1 |
| 4/16/2015 22:46:39 | 40.68 | 34.88 | 1,118 | 0.57 | 0.35 | 61.1 |
| 4/16/2015 22:46:39 | 41.01 | 35.21 | 1,124 | 0.55 | 0.35 | 61.5 |
| 4/16/2015 22:46:40 | 41.34 | 35.54 | 1,121 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:41 | 41.67 | 35.87 | 1,121 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:41 | 41.99 | 36.19 | 1,118 | 0.37 | 0.35 | 61.1 |
| 4/16/2015 22:46:41 | 42.32 | 36.52 | 1,118 | 0.37 | 0.35 | 61.1 |
| 4/16/2015 22:46:41 | 42.65 | 36.85 | 1,143 | 0.55 | 0.35 | 62.5 |
| 4/16/2015 22:46:42 | 42.98 | 37.18 | 1,122 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:42 | 43.31 | 37.51 | 1,122 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:42 | 43.64 | 37.84 | 1,125 | 0.55 | 0.35 | 61.5 |
| 4/16/2015 22:46:43 | 43.96 | 38.16 | 1,125 | 0.55 | 0.35 | 61.5 |
| 4/16/2015 22:46:43 | 44.29 | 38.49 | 1,115 | 0.55 | 0.35 | 61.0 |
| 4/16/2015 22:46:43 | 44.62 | 38.82 | 1,122 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:44 | 44.95 | 39.15 | 1,122 | 0.55 | 0.35 | 61.3 |
| 4/16/2015 22:46:44 | 45.28 | 39.48 | 1,118 | 0.55 | 0.35 | 61.1 |
| 4/16/2015 22:46:44 | 45.60 | 39.80 | 1,118 | 0.55 | 0.35 | 61.1 |
| 4/16/2015 22:46:44 | 45.93 | 40.13 | 1,131 | 0.55 | 0.35 | 61.8 |
| 4/16/2015 22:46:45 | 46.26 | 40.46 | 1,096 | 0.55 | 0.36 | 59.9 |
| 4/16/2015 22:46:45 | 46.59 | 40.79 | 1,096 | 0.55 | 0.36 | 59.9 |
| 4/16/2015 22:46:45 | 46.92 | 41.12 | 1,096 | 0.55 | 0.35 | 59.9 |
| 4/16/2015 22:46:46 | 47.24 | 41.44 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 22:46:46 | 47.57 | 41.77 | 1,110 | 0.55 | 0.35 | 60.7 |
| 4/16/2015 22:46:46 | 47.90 | 42.10 | 1,107 | 0.55 | 0.35 | 60.5 |
| 4/16/2015 22:46:47 | 48.23 | 42.43 | 1,107 | 0.55 | 0.35 | 60.5 |
| 4/16/2015 22:46:47 | 48.56 | 42.76 | 1,107 | 0.54 | 0.35 | 60.5 |
| 4/16/2015 22:46:47 | 48.88 | 43.08 | 1,095 | 0.55 | 0.35 | 59.9 |
| 4/16/2015 22:46:48 | 49.21 | 43.41 | 1,095 | 0.55 | 0.35 | 59.9 |
| 4/16/2015 22:46:48 | 49.54 | 43.74 | 1,114 | 0.55 | 0.35 | 60.9 |
| 4/16/2015 22:46:48 | 49.87 | 44.07 | 1,117 | 0.55 | 0.35 | 61.1 |
| 4/16/2015 22:46:49 | 50.20 | 44.40 | 1,117 | 0.55 | 0.35 | 61.1 |
| 4/16/2015 22:46:49 | 50.53 | 44.73 | 1,114 | 0.53 | 0.38 | 60.9 |
| 4/16/2015 22:47:13 | 50.85 | 45.05 | 0 | 3.19 | 0.36 | 0.0 |
| 4/16/2015 22:47:13 | 51.18 | 45.38 | 136 | 3.18 | 0.50 | 7.4 |
| 4/16/2015 22:47:14 | 51.51 | 45.71 | 136 | 3.18 | 0.50 | 7.4 |
| 4/16/2015 22:47:14 | 51.84 | 46.04 | 345 | 3.18 | 0.44 | 18.8 |
| 4/16/2015 22:47:14 | 52.17 | 46.37 | 539 | 3.20 | 0.37 | 29.5 |
| 4/16/2015 22:47:15 | 52.49 | 46.69 | 539 | 3.20 | 0.37 | 29.5 |
| 4/16/2015 22:47:15 | 52.82 | 47.02 | 736 | 3.22 | 0.41 | 40.2 |
| 4/16/2015 22:47:15 | 53.15 | 47.35 | 916 | 3.22 | 0.44 | 50.1 |
| 4/16/2015 22:47:16 | 53.48 | 47.68 | 975 | 3.22 | 0.43 | 53.3 |
| 4/16/2015 22:47:16 | 53.81 | 48.01 | 975 | 3.22 | 0.43 | 53.3 |
| 4/16/2015 22:47:16 | 54.13 | 48.33 | 954 | 3.26 | 0.44 | 52.2 |
| 4/16/2015 22:47:17 | 54.46 | 48.66 | 948 | 3.25 | 0.44 | 51.9 |
| 4/16/2015 22:47:17 | 54.79 | 48.99 | 948 | 3.25 | 0.44 | 51.9 |
| 4/16/2015 22:47:17 | 55.12 | 49.32 | 931 | 3.23 | 0.43 | 50.9 |
| 4/16/2015 22:47:18 | 55.45 | 49.65 | 937 | 3.81 | 0.45 | 51.2 |
| 4/16/2015 22:47:54 | 55.77 | 49.97 | 8 | 3.92 | 0.42 | 0.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/16/2015 22:47:59 | 56.10 | 50.30 | 71 | 4.58 | 0.43 | 3.9 |
| 4/16/2015 22:48:05 | 56.43 | 50.63 | 69 | 4.34 | 0.42 | 3.8 |
| 4/16/2015 22:48:10 | 56.76 | 50.96 | 61 | 4.15 | 0.44 | 3.3 |
| 4/16/2015 22:48:16 | 57.09 | 51.29 | 54 | 4.23 | 0.41 | 2.9 |
| 4/16/2015 22:48:23 | 57.34 | 51.54 | 35 | 4.32 | 0.47 | 1.9 |

## B42 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:44:16

**End Date:**
4/16/2015 22:51:03

**Operator Note:**
'5.8 5.8 A Auto Complete'

**Northing:**
370,720.65

**Easting:**
259,716.78

**Tide (feet):**
5.80



## Hole: B43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:54:54 | 36.09 | 30.29 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:54:54 | 36.42 | 30.62 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:54:54 | 36.75 | 30.95 | 983 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:54:55 | 37.07 | 31.27 | 970 | 0.29 | 0.42 | 53.1 |
| 4/16/2015 22:54:55 | 37.40 | 31.60 | 970 | 0.29 | 0.42 | 53.1 |
| 4/16/2015 22:54:55 | 37.73 | 31.93 | 970 | 0.29 | 0.42 | 53.1 |
| 4/16/2015 22:55:10 | 38.06 | 32.26 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 22:55:11 | 38.39 | 32.59 | 134 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 22:55:11 | 38.71 | 32.91 | 134 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 22:55:12 | 39.04 | 33.24 | 134 | 0.29 | 0.42 | 7.3 |
| 4/16/2015 22:55:12 | 39.37 | 33.57 | 323 | 0.29 | 0.42 | 17.6 |
| 4/16/2015 22:55:12 | 39.70 | 33.90 | 511 | 0.29 | 0.42 | 28.0 |
| 4/16/2015 22:55:13 | 40.03 | 34.23 | 511 | 0.29 | 0.42 | 28.0 |
| 4/16/2015 22:55:13 | 40.35 | 34.55 | 511 | 0.29 | 0.42 | 28.0 |
| 4/16/2015 22:55:13 | 40.68 | 34.88 | 721 | 0.29 | 0.42 | 39.4 |
| 4/16/2015 22:55:14 | 41.01 | 35.21 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 22:55:14 | 41.34 | 35.54 | 909 | 0.29 | 0.42 | 49.7 |
| 4/16/2015 22:55:14 | 41.67 | 35.87 | 963 | 0.29 | 0.42 | 52.7 |
| 4/16/2015 22:55:15 | 41.99 | 36.19 | 967 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 22:55:15 | 42.32 | 36.52 | 967 | 0.29 | 0.42 | 52.9 |
| 4/16/2015 22:55:16 | 42.65 | 36.85 | 978 | 0.29 | 0.42 | 53.5 |
| 4/16/2015 22:55:16 | 42.98 | 37.18 | 944 | 0.29 | 0.42 | 51.6 |
| 4/16/2015 22:55:17 | 43.31 | 37.51 | 944 | 0.29 | 0.42 | 51.6 |
| 4/16/2015 22:55:16 | 43.64 | 37.84 | 953 | 0.29 | 0.42 | 52.1 |
| 4/16/2015 22:55:17 | 43.96 | 38.16 | 953 | 0.29 | 0.42 | 52.1 |
| 4/16/2015 22:55:18 | 44.29 | 38.49 | 965 | 0.29 | 0.42 | 52.7 |
| 4/16/2015 22:55:18 | 44.62 | 38.82 | 965 | 0.29 | 0.42 | 52.7 |
| 4/16/2015 22:55:18 | 44.95 | 39.15 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:55:19 | 45.28 | 39.48 | 977 | 0.29 | 0.42 | 53.4 |
| 4/16/2015 22:55:19 | 45.60 | 39.80 | 977 | 0.29 | 0.42 | 53.4 |
| 4/16/2015 22:55:19 | 45.93 | 40.13 | 977 | 0.29 | 0.42 | 53.4 |
| 4/16/2015 22:55:20 | 46.26 | 40.46 | 977 | 0.29 | 0.42 | 53.4 |
| 4/16/2015 22:55:20 | 46.59 | 40.79 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:55:21 | 46.92 | 41.12 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:55:21 | 47.24 | 41.44 | 980 | 0.29 | 0.42 | 53.6 |
| 4/16/2015 22:55:21 | 47.57 | 41.77 | 978 | 0.29 | 0.42 | 53.5 |
| 4/16/2015 22:55:22 | 47.90 | 42.10 | 978 | 0.29 | 0.42 | 53.5 |
| 4/16/2015 22:55:22 | 48.23 | 42.43 | 975 | 0.29 | 0.42 | 53.3 |
| 4/16/2015 22:55:22 | 48.56 | 42.76 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:55:23 | 48.88 | 43.08 | 984 | 0.29 | 0.42 | 53.8 |
| 4/16/2015 22:55:23 | 49.21 | 43.41 | 986 | 0.29 | 0.42 | 53.9 |
| 4/16/2015 22:55:23 | 49.54 | 43.74 | 990 | 0.29 | 0.42 | 54.1 |
| 4/16/2015 22:55:24 | 49.87 | 44.07 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/16/2015 22:55:24 | 50.20 | 44.40 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/16/2015 22:55:24 | 50.53 | 44.73 | 992 | 0.29 | 0.42 | 54.2 |
| 4/16/2015 22:55:25 | 50.85 | 45.05 | 942 | 0.29 | 0.42 | 51.5 |
| 4/16/2015 22:55:26 | 51.18 | 45.38 | 542 | 0.29 | 0.42 | 29.6 |
| 4/16/2015 22:56:13 | 51.51 | 45.71 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 22:56:14 | 51.84 | 46.04 | 146 | 0.29 | 0.42 | 8.0 |
| 4/16/2015 22:56:14 | 52.17 | 46.37 | 263 | 0.29 | 0.42 | 14.4 |
| 4/16/2015 22:56:15 | 52.49 | 46.69 | 380 | 0.29 | 0.42 | 20.8 |
| 4/16/2015 22:56:15 | 52.82 | 47.02 | 489 | 0.29 | 0.42 | 26.7 |
| 4/16/2015 22:56:17 | 53.15 | 47.35 | 535 | 0.29 | 0.42 | 29.2 |
| 4/16/2015 22:56:17 | 53.48 | 47.68 | 527 | 0.29 | 0.42 | 28.8 |
| 4/16/2015 22:56:18 | 53.81 | 48.01 | 541 | 0.29 | 0.42 | 29.6 |
| 4/16/2015 22:56:18 | 54.13 | 48.33 | 563 | 0.29 | 0.42 | 30.8 |
| 4/16/2015 22:56:19 | 54.46 | 48.66 | 609 | 0.29 | 0.42 | 33.3 |
| 4/16/2015 22:56:19 | 54.79 | 48.99 | 649 | 0.29 | 0.42 | 35.5 |
| 4/16/2015 22:56:20 | 55.12 | 49.32 | 672 | 0.29 | 0.42 | 36.7 |
| 4/16/2015 22:56:20 | 55.45 | 49.65 | 669 | 0.29 | 0.42 | 36.6 |
| 4/16/2015 22:56:21 | 55.77 | 49.97 | 670 | 0.29 | 0.42 | 36.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 22:56:21 | 56.10 | 50.30 | 663 | 0.29 | 0.42 | 36.3 |
| 4/16/2015 | 22:56:22 | 56.43 | 50.63 | 578 | 0.29 | 0.42 | 31.6 |
| 4/16/2015 | 22:56:23 | 56.76 | 50.96 | 561 | 0.29 | 0.42 | 30.7 |
| 4/16/2015 | 22:56:23 | 57.09 | 51.29 | 558 | 0.29 | 0.42 | 30.5 |
| 4/16/2015 | 22:56:24 | 57.41 | 51.61 | 549 | 0.29 | 0.42 | 30.0 |
| 4/16/2015 | 22:56:24 | 57.74 | 51.94 | 566 | 0.29 | 0.42 | 31.0 |
| 4/16/2015 | 22:56:25 | 58.07 | 52.27 | 616 | 0.29 | 0.42 | 33.7 |
| 4/16/2015 | 22:56:25 | 58.40 | 52.60 | 636 | 0.29 | 0.42 | 34.8 |
| 4/16/2015 | 22:56:26 | 58.73 | 52.93 | 599 | 0.29 | 0.42 | 32.7 |
| 4/16/2015 | 22:56:28 | 59.06 | 53.26 | 379 | 0.29 | 0.42 | 20.7 |
| 4/16/2015 | 22:56:29 | 59.38 | 53.58 | 312 | 0.29 | 0.42 | 17.0 |
| 4/16/2015 | 22:56:30 | 59.71 | 53.91 | 377 | 0.29 | 0.42 | 20.6 |
| 4/16/2015 | 22:56:30 | 60.04 | 54.24 | 451 | 0.29 | 0.42 | 24.7 |
| 4/16/2015 | 22:56:35 | 60.37 | 54.57 | 26 | 0.29 | 0.42 | 1.4 |
| 4/16/2015 | 22:56:38 | 60.70 | 54.90 | 107 | 0.29 | 0.42 | 5.9 |
| 4/16/2015 | 22:56:45 | 60.96 | 55.16 | 26 | 0.29 | 0.42 | 1.4 |

## B43 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:42:12

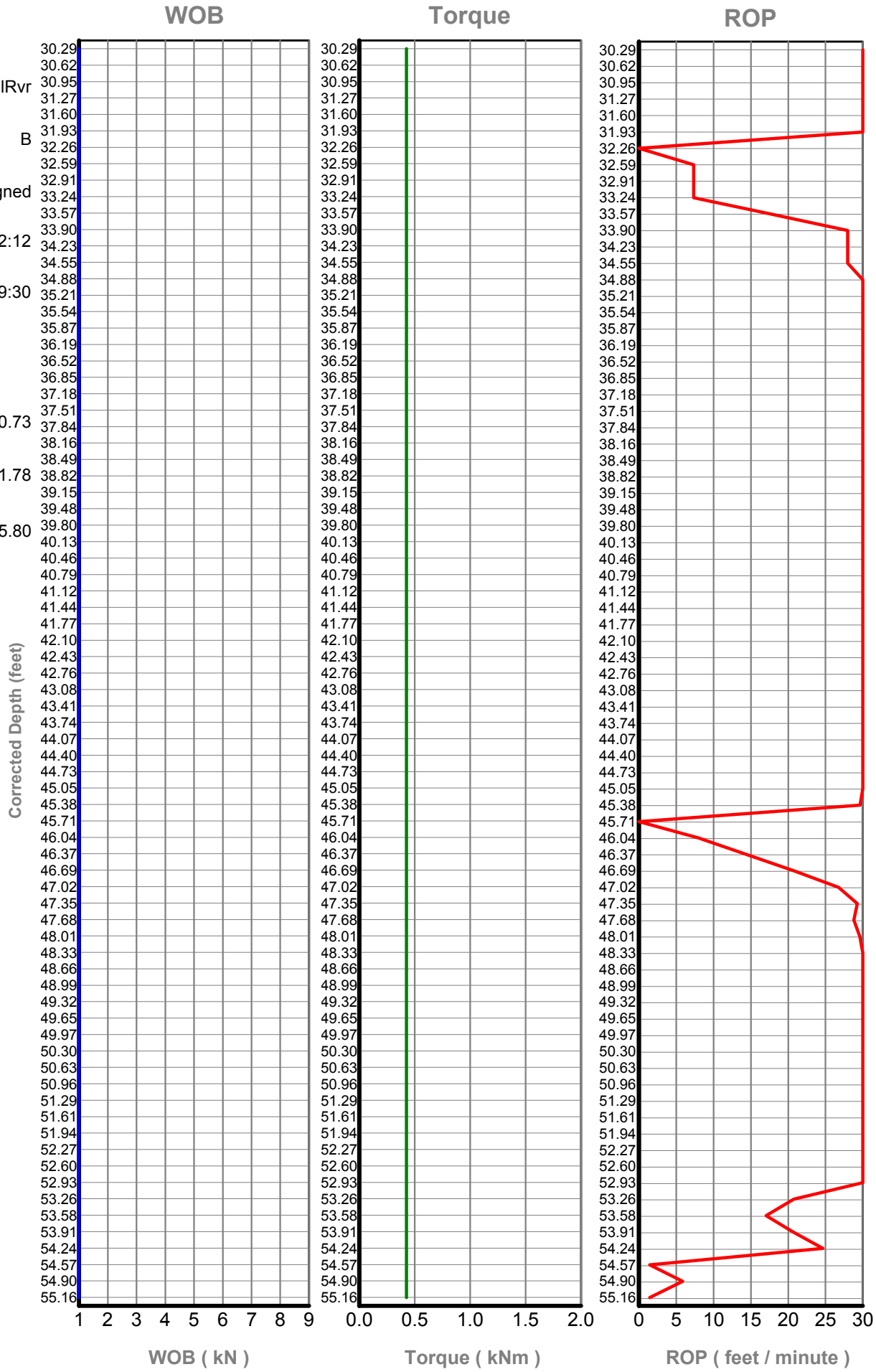
**End Date:**
4/16/2015 22:59:30

**Operator Note:**
'5.8 6 b Auto Complete'

**Northing:**
370,720.73

**Easting:**
259,791.78

**Tide (feet):**
5.80



## Hole: B44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 22:45:23 | 36.09 | 30.29 | 734 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:24 | 36.42 | 30.62 | 734 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:24 | 36.75 | 30.95 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 22:45:25 | 37.07 | 31.27 | 732 | 2.28 | 0.14 | 40.0 |
| 4/16/2015 22:45:25 | 37.40 | 31.60 | 732 | 2.28 | 0.14 | 40.0 |
| 4/16/2015 22:45:25 | 37.73 | 31.93 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:26 | 38.06 | 32.26 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:26 | 38.39 | 32.59 | 732 | 2.25 | 0.14 | 40.0 |
| 4/16/2015 22:45:27 | 38.71 | 32.91 | 736 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:27 | 39.04 | 33.24 | 724 | 2.27 | 0.14 | 39.6 |
| 4/16/2015 22:45:28 | 39.37 | 33.57 | 724 | 2.28 | 0.14 | 39.6 |
| 4/16/2015 22:45:29 | 39.70 | 33.90 | 723 | 2.27 | 0.14 | 39.5 |
| 4/16/2015 22:45:29 | 40.03 | 34.23 | 720 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 22:45:30 | 40.35 | 34.55 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:30 | 40.68 | 34.88 | 741 | 2.29 | 0.14 | 40.5 |
| 4/16/2015 22:45:31 | 41.01 | 35.21 | 735 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:31 | 41.34 | 35.54 | 738 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 22:45:32 | 41.67 | 35.87 | 748 | 2.27 | 0.14 | 40.9 |
| 4/16/2015 22:45:32 | 41.99 | 36.19 | 738 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 22:45:33 | 42.32 | 36.52 | 738 | 2.27 | 0.14 | 40.3 |
| 4/16/2015 22:45:33 | 42.65 | 36.85 | 736 | 2.26 | 0.14 | 40.2 |
| 4/16/2015 22:45:33 | 42.98 | 37.18 | 745 | 2.27 | 0.14 | 40.7 |
| 4/16/2015 22:45:34 | 43.31 | 37.51 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 22:45:34 | 43.64 | 37.84 | 728 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 22:45:35 | 43.96 | 38.16 | 729 | 2.27 | 0.14 | 39.8 |
| 4/16/2015 22:45:35 | 44.29 | 38.49 | 723 | 2.27 | 0.14 | 39.5 |
| 4/16/2015 22:45:36 | 44.62 | 38.82 | 714 | 2.27 | 0.14 | 39.1 |
| 4/16/2015 22:45:36 | 44.95 | 39.15 | 714 | 2.28 | 0.14 | 39.1 |
| 4/16/2015 22:45:37 | 45.28 | 39.48 | 721 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 22:45:37 | 45.60 | 39.80 | 732 | 2.28 | 0.14 | 40.0 |
| 4/16/2015 22:45:38 | 45.93 | 40.13 | 729 | 2.27 | 0.14 | 39.9 |
| 4/16/2015 22:45:38 | 46.26 | 40.46 | 730 | 2.28 | 0.14 | 39.9 |
| 4/16/2015 22:45:39 | 46.59 | 40.79 | 736 | 2.27 | 0.14 | 40.2 |
| 4/16/2015 22:45:39 | 46.92 | 41.12 | 729 | 2.27 | 0.14 | 39.9 |
| 4/16/2015 22:45:40 | 47.24 | 41.44 | 733 | 2.27 | 0.14 | 40.1 |
| 4/16/2015 22:45:41 | 47.57 | 41.77 | 733 | 2.27 | 0.14 | 40.1 |
| 4/16/2015 22:45:41 | 47.90 | 42.10 | 729 | 2.29 | 0.14 | 39.8 |
| 4/16/2015 22:45:41 | 48.23 | 42.43 | 714 | 2.27 | 0.14 | 39.0 |
| 4/16/2015 22:45:42 | 48.56 | 42.76 | 714 | 2.28 | 0.14 | 39.0 |
| 4/16/2015 22:45:42 | 48.88 | 43.08 | 722 | 2.27 | 0.14 | 39.5 |
| 4/16/2015 22:45:43 | 49.21 | 43.41 | 718 | 2.28 | 0.14 | 39.3 |
| 4/16/2015 22:45:43 | 49.54 | 43.74 | 721 | 2.27 | 0.14 | 39.4 |
| 4/16/2015 22:45:44 | 49.87 | 44.07 | 705 | 2.28 | 0.18 | 38.5 |
| 4/16/2015 22:45:44 | 50.20 | 44.40 | 705 | 2.27 | 0.14 | 38.5 |
| 4/16/2015 22:45:45 | 50.53 | 44.73 | 726 | 2.27 | 0.14 | 39.7 |
| 4/16/2015 22:45:45 | 50.85 | 45.05 | 722 | 2.29 | 0.14 | 39.5 |
| 4/16/2015 22:45:46 | 51.18 | 45.38 | 718 | 2.35 | 0.14 | 39.2 |
| 4/16/2015 22:46:09 | 51.51 | 45.71 | 0 | 2.29 | 1.03 | 0.0 |
| 4/16/2015 22:46:09 | 51.84 | 46.04 | 100 | 2.30 | 1.02 | 5.5 |
| 4/16/2015 22:46:10 | 52.17 | 46.37 | 100 | 2.29 | 1.02 | 5.5 |
| 4/16/2015 22:46:10 | 52.49 | 46.69 | 238 | 2.30 | 1.02 | 13.0 |
| 4/16/2015 22:46:11 | 52.82 | 47.02 | 369 | 2.29 | 1.03 | 20.2 |
| 4/16/2015 22:46:12 | 53.15 | 47.35 | 498 | 2.29 | 1.05 | 27.2 |
| 4/16/2015 22:46:12 | 53.48 | 47.68 | 627 | 2.31 | 1.04 | 34.3 |
| 4/16/2015 22:46:13 | 53.81 | 48.01 | 650 | 2.31 | 1.05 | 35.6 |
| 4/16/2015 22:46:13 | 54.13 | 48.33 | 638 | 2.30 | 1.05 | 34.9 |
| 4/16/2015 22:46:14 | 54.46 | 48.66 | 633 | 2.31 | 1.05 | 34.6 |
| 4/16/2015 22:46:15 | 54.79 | 48.99 | 618 | 2.31 | 1.03 | 33.8 |
| 4/16/2015 22:46:15 | 55.12 | 49.32 | 616 | 2.32 | 1.04 | 33.7 |
| 4/16/2015 22:46:16 | 55.45 | 49.65 | 607 | 2.33 | 1.05 | 33.2 |
| 4/16/2015 22:46:16 | 55.77 | 49.97 | 592 | 2.33 | 1.05 | 32.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 22:46:17 | 56.10 | 50.30 | 578 | 2.32 | 1.05 | 31.6 |
| 4/16/2015 | 22:46:18 | 56.43 | 50.63 | 561 | 2.32 | 1.04 | 30.7 |
| 4/16/2015 | 22:46:18 | 56.76 | 50.96 | 555 | 2.33 | 1.04 | 30.4 |
| 4/16/2015 | 22:46:19 | 57.09 | 51.29 | 555 | 2.33 | 1.04 | 30.4 |
| 4/16/2015 | 22:46:19 | 57.41 | 51.61 | 552 | 2.33 | 1.03 | 30.2 |
| 4/16/2015 | 22:46:20 | 57.74 | 51.94 | 546 | 2.33 | 1.03 | 29.9 |
| 4/16/2015 | 22:46:21 | 58.07 | 52.27 | 544 | 2.33 | 1.02 | 29.7 |
| 4/16/2015 | 22:46:22 | 58.40 | 52.60 | 540 | 2.32 | 1.05 | 29.5 |
| 4/16/2015 | 22:46:23 | 58.73 | 52.93 | 519 | 2.45 | 1.17 | 28.4 |
| 4/16/2015 | 22:46:24 | 59.06 | 53.26 | 396 | 2.42 | 1.35 | 21.7 |
| 4/16/2015 | 22:46:25 | 59.38 | 53.58 | 297 | 2.31 | 1.17 | 16.2 |
| 4/16/2015 | 22:46:35 | 59.71 | 53.91 | 0 | 2.47 | 1.42 | 0.0 |
| 4/16/2015 | 22:46:51 | 60.04 | 54.24 | 58 | 2.53 | 1.25 | 3.2 |
| 4/16/2015 | 22:46:58 | 60.37 | 54.57 | 46 | 2.51 | 1.19 | 2.5 |
| 4/16/2015 | 22:47:06 | 60.70 | 54.90 | 43 | 2.57 | 1.37 | 2.4 |
| 4/16/2015 | 22:47:09 | 60.79 | 54.99 | 43 | 2.56 | 1.23 | 2.4 |

## B44 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 22:43:30

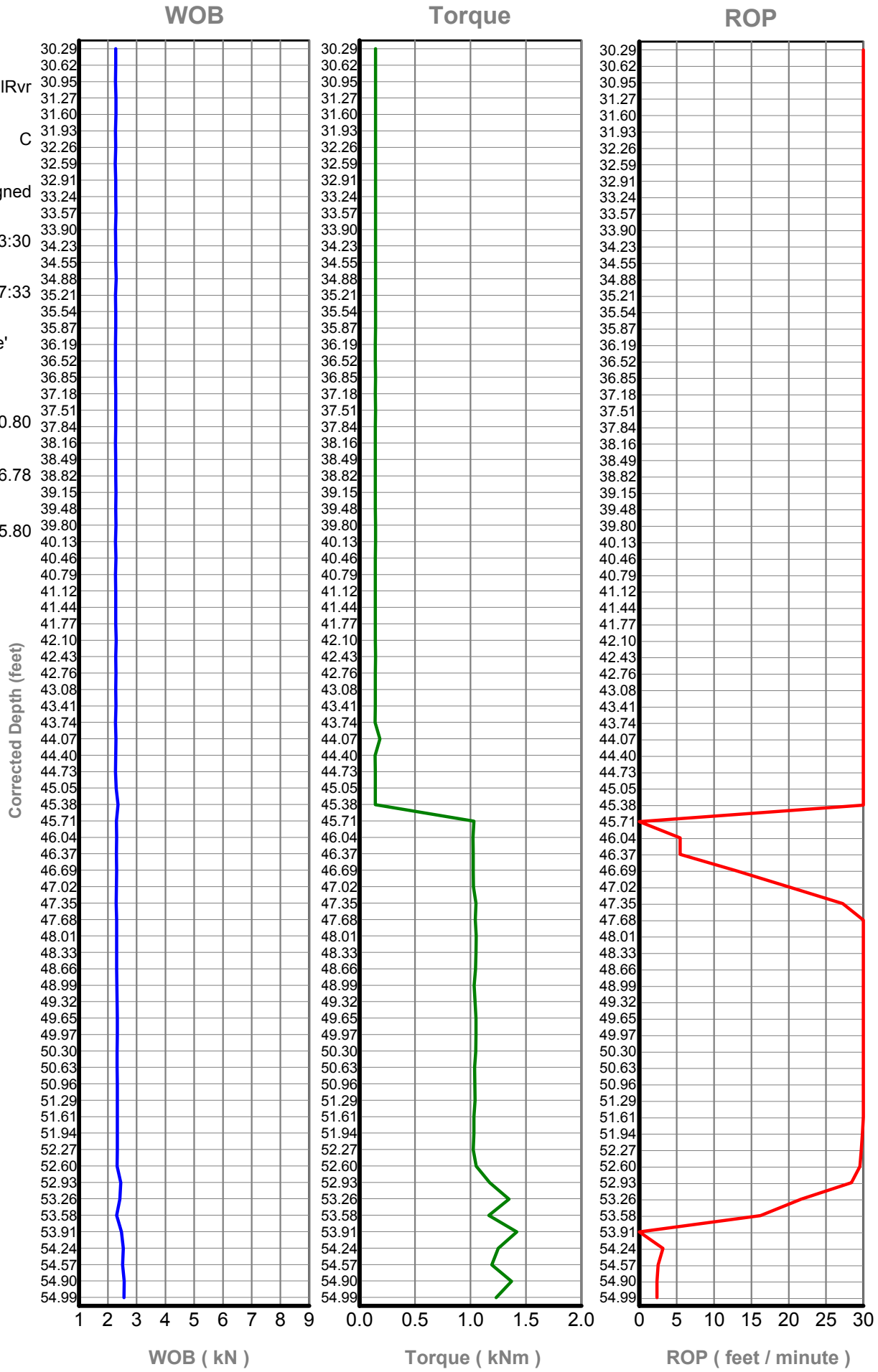
**End Date:**
4/16/2015 22:47:33

**Operator Note:**
'5.8 5.8 c Auto Complete'

**Northing:**
370,720.80

**Easting:**
259,866.78

**Tide (feet):**
5.80



## Hole: B45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 11:03:22 | 36.09 | 30.29 | 714 | 0.27 | 0.36 | 39.1 |
| 4/16/2015 11:03:22 | 36.42 | 30.62 | 884 | 0.26 | 0.38 | 48.4 |
| 4/16/2015 11:03:22 | 36.75 | 30.95 | 898 | 0.26 | 0.37 | 49.1 |
| 4/16/2015 11:03:23 | 37.07 | 31.27 | 886 | 0.27 | 0.36 | 48.5 |
| 4/16/2015 11:03:24 | 37.40 | 31.60 | 886 | 0.27 | 0.36 | 48.5 |
| 4/16/2015 11:03:24 | 37.73 | 31.93 | 897 | 0.27 | 0.37 | 49.0 |
| 4/16/2015 11:03:24 | 38.06 | 32.26 | 889 | 0.26 | 0.37 | 48.6 |
| 4/16/2015 11:03:25 | 38.39 | 32.59 | 901 | 0.27 | 0.37 | 49.3 |
| 4/16/2015 11:03:25 | 38.71 | 32.91 | 882 | 0.27 | 0.37 | 48.2 |
| 4/16/2015 11:03:26 | 39.04 | 33.24 | 882 | 0.27 | 0.37 | 48.2 |
| 4/16/2015 11:03:26 | 39.37 | 33.57 | 885 | 0.27 | 0.36 | 48.4 |
| 4/16/2015 11:03:26 | 39.70 | 33.90 | 882 | 0.27 | 0.36 | 48.2 |
| 4/16/2015 11:03:27 | 40.03 | 34.23 | 874 | 0.26 | 0.37 | 47.8 |
| 4/16/2015 11:03:27 | 40.35 | 34.55 | 874 | 0.26 | 0.37 | 47.8 |
| 4/16/2015 11:03:27 | 40.68 | 34.88 | 874 | 0.28 | 0.37 | 47.8 |
| 4/16/2015 11:03:28 | 41.01 | 35.21 | 873 | 0.27 | 0.37 | 47.7 |
| 4/16/2015 11:03:28 | 41.34 | 35.54 | 865 | 0.29 | 0.36 | 47.3 |
| 4/16/2015 11:03:29 | 41.67 | 35.87 | 856 | 0.27 | 0.37 | 46.8 |
| 4/16/2015 11:03:29 | 41.99 | 36.19 | 856 | 0.27 | 0.37 | 46.8 |
| 4/16/2015 11:03:29 | 42.32 | 36.52 | 856 | 0.27 | 0.37 | 46.8 |
| 4/16/2015 11:03:30 | 42.65 | 36.85 | 859 | 0.27 | 0.37 | 47.0 |
| 4/16/2015 11:03:30 | 42.98 | 37.18 | 863 | 0.26 | 0.37 | 47.2 |
| 4/16/2015 11:03:31 | 43.31 | 37.51 | 863 | 0.26 | 0.37 | 47.2 |
| 4/16/2015 11:03:31 | 43.64 | 37.84 | 863 | 0.27 | 0.36 | 47.2 |
| 4/16/2015 11:03:31 | 43.96 | 38.16 | 863 | 0.27 | 0.36 | 47.2 |
| 4/16/2015 11:03:32 | 44.29 | 38.49 | 863 | 0.26 | 0.37 | 47.2 |
| 4/16/2015 11:03:32 | 44.62 | 38.82 | 886 | 0.27 | 0.36 | 48.4 |
| 4/16/2015 11:03:33 | 44.95 | 39.15 | 886 | 0.27 | 0.36 | 48.4 |
| 4/16/2015 11:03:33 | 45.28 | 39.48 | 904 | 0.26 | 0.36 | 49.4 |
| 4/16/2015 11:03:34 | 45.60 | 39.80 | 905 | 0.27 | 0.36 | 49.5 |
| 4/16/2015 11:03:34 | 45.93 | 40.13 | 905 | 0.27 | 0.36 | 49.5 |
| 4/16/2015 11:03:34 | 46.26 | 40.46 | 908 | 0.27 | 0.36 | 49.7 |
| 4/16/2015 11:03:35 | 46.59 | 40.79 | 908 | 0.27 | 0.36 | 49.7 |
| 4/16/2015 11:03:35 | 46.92 | 41.12 | 917 | 0.27 | 0.36 | 50.2 |
| 4/16/2015 11:03:36 | 47.24 | 41.44 | 917 | 0.27 | 0.36 | 50.2 |
| 4/16/2015 11:03:36 | 47.57 | 41.77 | 917 | 0.27 | 0.36 | 50.2 |
| 4/16/2015 11:03:36 | 47.90 | 42.10 | 928 | 0.27 | 0.36 | 50.7 |
| 4/16/2015 11:03:37 | 48.23 | 42.43 | 943 | 0.27 | 0.36 | 51.5 |
| 4/16/2015 11:03:37 | 48.56 | 42.76 | 943 | 0.27 | 0.36 | 51.5 |
| 4/16/2015 11:03:37 | 48.88 | 43.08 | 940 | 0.27 | 0.36 | 51.4 |
| 4/16/2015 11:03:38 | 49.21 | 43.41 | 940 | 0.27 | 0.36 | 51.4 |
| 4/16/2015 11:03:38 | 49.54 | 43.74 | 940 | 0.27 | 0.36 | 51.4 |
| 4/16/2015 11:03:38 | 49.87 | 44.07 | 960 | 0.28 | 0.35 | 52.5 |
| 4/16/2015 11:03:39 | 50.20 | 44.40 | 961 | 0.28 | 0.36 | 52.6 |
| 4/16/2015 11:03:39 | 50.53 | 44.73 | 970 | 0.28 | 0.36 | 53.1 |
| 4/16/2015 11:03:40 | 50.85 | 45.05 | 970 | 0.28 | 0.36 | 53.1 |
| 4/16/2015 11:03:40 | 51.18 | 45.38 | 956 | 0.27 | 0.35 | 52.3 |
| 4/16/2015 11:03:40 | 51.51 | 45.71 | 954 | 0.27 | 0.36 | 52.2 |
| 4/16/2015 11:03:41 | 51.84 | 46.04 | 954 | 0.27 | 0.36 | 52.2 |
| 4/16/2015 11:03:41 | 52.17 | 46.37 | 954 | 0.27 | 0.36 | 52.2 |
| 4/16/2015 11:03:41 | 52.49 | 46.69 | 956 | 0.27 | 0.38 | 52.3 |
| 4/16/2015 11:03:42 | 52.82 | 47.02 | 925 | 0.25 | 0.43 | 50.6 |
| 4/16/2015 11:04:11 | 53.15 | 47.35 | 0 | 2.17 | 0.38 | 0.0 |
| 4/16/2015 11:04:11 | 53.48 | 47.68 | 148 | 2.29 | 0.36 | 8.1 |
| 4/16/2015 11:04:12 | 53.81 | 48.01 | 148 | 3.05 | 0.40 | 8.1 |
| 4/16/2015 11:04:25 | 54.13 | 48.33 | 6 | 2.78 | 0.40 | 0.3 |
| 4/16/2015 11:04:25 | 54.46 | 48.66 | 75 | 3.41 | 0.40 | 4.1 |
| 4/16/2015 11:04:26 | 54.79 | 48.99 | 75 | 2.67 | 0.39 | 4.1 |
| 4/16/2015 11:04:27 | 55.12 | 49.32 | 317 | 2.00 | 0.38 | 17.3 |
| 4/16/2015 11:04:27 | 55.45 | 49.65 | 440 | 1.96 | 0.39 | 24.0 |
| 4/16/2015 11:04:28 | 55.77 | 49.97 | 551 | 1.92 | 0.40 | 30.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 11:04:28 | 56.10 | 50.30 | 585 | 1.93 | 0.39 | 32.0 |
| 4/16/2015 | 11:04:29 | 56.43 | 50.63 | 585 | 1.92 | 0.40 | 32.0 |
| 4/16/2015 | 11:04:30 | 56.76 | 50.96 | 568 | 1.91 | 0.40 | 31.0 |
| 4/16/2015 | 11:04:31 | 57.09 | 51.29 | 436 | 1.94 | 0.40 | 23.8 |
| 4/16/2015 | 11:04:32 | 57.41 | 51.61 | 399 | 1.92 | 0.39 | 21.8 |
| 4/16/2015 | 11:04:34 | 57.74 | 51.94 | 109 | 1.87 | 0.38 | 5.9 |
| 4/16/2015 | 11:04:36 | 58.07 | 52.27 | 179 | 1.92 | 0.40 | 9.8 |
| 4/16/2015 | 11:04:36 | 58.40 | 52.60 | 291 | 1.94 | 0.40 | 15.9 |
| 4/16/2015 | 11:04:37 | 58.73 | 52.93 | 382 | 1.95 | 0.39 | 20.9 |
| 4/16/2015 | 11:04:38 | 59.06 | 53.26 | 527 | 1.96 | 0.40 | 28.8 |
| 4/16/2015 | 11:04:38 | 59.38 | 53.58 | 527 | 1.95 | 0.40 | 28.8 |
| 4/16/2015 | 11:04:39 | 59.71 | 53.91 | 533 | 1.92 | 0.39 | 29.2 |
| 4/16/2015 | 11:04:39 | 60.04 | 54.24 | 547 | 1.95 | 0.41 | 29.9 |
| 4/16/2015 | 11:04:40 | 60.37 | 54.57 | 558 | 1.91 | 0.40 | 30.5 |
| 4/16/2015 | 11:04:41 | 60.70 | 54.90 | 561 | 1.98 | 0.40 | 30.7 |
| 4/16/2015 | 11:04:41 | 61.02 | 55.22 | 546 | 1.91 | 0.40 | 29.9 |
| 4/16/2015 | 11:04:41 | 61.10 | 55.30 | 546 | 1.91 | 0.40 | 29.9 |

## B45 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 10:59:27

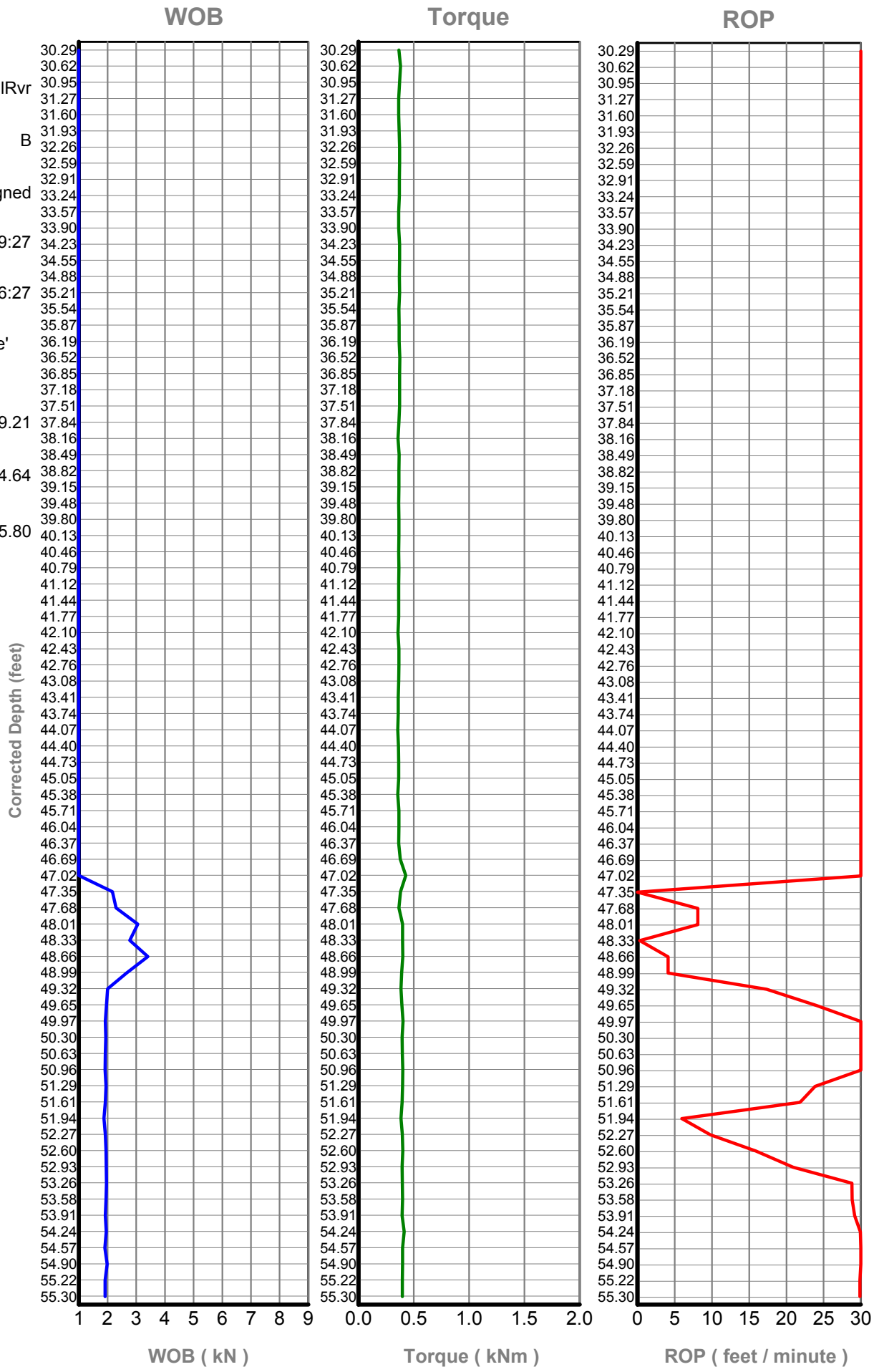
**End Date:**
4/16/2015 11:06:27

**Operator Note:**
'5.8 5.8 b Auto Complete'

**Northing:**
370,939.21

**Easting:**
260,014.64

**Tide (feet):**
5.80



## Hole: B46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 11:10:48 | 36.09 | 30.19 | 871 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 11:10:49 | 36.42 | 30.52 | 881 | 2.44 | 0.13 | 48.2 |
| 4/16/2015 11:10:50 | 36.75 | 30.85 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:10:50 | 37.07 | 31.17 | 870 | 2.45 | 0.13 | 47.6 |
| 4/16/2015 11:10:51 | 37.40 | 31.50 | 870 | 2.45 | 0.13 | 47.6 |
| 4/16/2015 11:10:51 | 37.73 | 31.83 | 863 | 2.46 | 0.13 | 47.2 |
| 4/16/2015 11:10:51 | 38.06 | 32.16 | 880 | 2.45 | 0.13 | 48.1 |
| 4/16/2015 11:10:52 | 38.39 | 32.49 | 874 | 2.45 | 0.13 | 47.8 |
| 4/16/2015 11:10:52 | 38.71 | 32.81 | 874 | 2.45 | 0.13 | 47.8 |
| 4/16/2015 11:10:52 | 39.04 | 33.14 | 874 | 2.46 | 0.13 | 47.8 |
| 4/16/2015 11:10:53 | 39.37 | 33.47 | 877 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 11:10:53 | 39.70 | 33.80 | 884 | 2.44 | 0.13 | 48.4 |
| 4/16/2015 11:10:54 | 40.03 | 34.13 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:10:54 | 40.35 | 34.45 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:10:54 | 40.68 | 34.78 | 876 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 11:10:55 | 41.01 | 35.11 | 879 | 2.45 | 0.13 | 48.1 |
| 4/16/2015 11:10:55 | 41.34 | 35.44 | 879 | 2.44 | 0.13 | 48.1 |
| 4/16/2015 11:10:56 | 41.67 | 35.77 | 879 | 2.44 | 0.13 | 48.1 |
| 4/16/2015 11:10:56 | 41.99 | 36.09 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:10:56 | 42.32 | 36.42 | 873 | 2.45 | 0.13 | 47.7 |
| 4/16/2015 11:10:57 | 42.65 | 36.75 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:10:57 | 42.98 | 37.08 | 876 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 11:10:58 | 43.31 | 37.41 | 876 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 11:10:58 | 43.64 | 37.74 | 873 | 2.43 | 0.13 | 47.7 |
| 4/16/2015 11:10:58 | 43.96 | 38.06 | 881 | 2.46 | 0.13 | 48.2 |
| 4/16/2015 11:10:59 | 44.29 | 38.39 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:10:59 | 44.62 | 38.72 | 866 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:00 | 44.95 | 39.05 | 866 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:00 | 45.28 | 39.38 | 866 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:01 | 45.60 | 39.70 | 866 | 2.45 | 0.13 | 47.4 |
| 4/16/2015 11:11:01 | 45.93 | 40.03 | 866 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:02 | 46.26 | 40.36 | 866 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:02 | 46.59 | 40.69 | 869 | 2.46 | 0.13 | 47.5 |
| 4/16/2015 11:11:02 | 46.92 | 41.02 | 869 | 2.44 | 0.13 | 47.5 |
| 4/16/2015 11:11:03 | 47.24 | 41.34 | 881 | 2.44 | 0.13 | 48.2 |
| 4/16/2015 11:11:03 | 47.57 | 41.67 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:11:04 | 47.90 | 42.00 | 876 | 2.45 | 0.13 | 47.9 |
| 4/16/2015 11:11:04 | 48.23 | 42.33 | 879 | 2.45 | 0.13 | 48.1 |
| 4/16/2015 11:11:04 | 48.56 | 42.66 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:05 | 48.88 | 42.98 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:05 | 49.21 | 43.31 | 868 | 2.45 | 0.13 | 47.4 |
| 4/16/2015 11:11:06 | 49.54 | 43.64 | 868 | 2.45 | 0.13 | 47.4 |
| 4/16/2015 11:11:06 | 49.87 | 43.97 | 876 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 11:11:06 | 50.20 | 44.30 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:07 | 50.53 | 44.63 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:07 | 50.85 | 44.95 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:07 | 51.18 | 45.28 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 11:11:08 | 51.51 | 45.61 | 871 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 11:11:08 | 51.84 | 45.94 | 868 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 11:11:09 | 52.17 | 46.27 | 868 | 2.46 | 0.13 | 47.4 |
| 4/16/2015 11:11:09 | 52.49 | 46.59 | 868 | 2.46 | 0.13 | 47.4 |
| 4/16/2015 11:11:09 | 52.82 | 46.92 | 851 | 2.49 | 0.13 | 46.5 |
| 4/16/2015 11:11:11 | 53.15 | 47.25 | 763 | 2.54 | 0.13 | 41.7 |
| 4/16/2015 11:11:11 | 53.48 | 47.58 | 684 | 2.57 | 0.13 | 37.4 |
| 4/16/2015 11:11:13 | 53.81 | 47.91 | 410 | 2.53 | 0.13 | 22.4 |
| 4/16/2015 11:11:13 | 54.13 | 48.23 | 393 | 2.52 | 0.13 | 21.5 |
| 4/16/2015 11:11:14 | 54.46 | 48.56 | 396 | 2.50 | 0.13 | 21.7 |
| 4/16/2015 11:11:14 | 54.79 | 48.89 | 443 | 2.49 | 0.13 | 24.2 |
| 4/16/2015 11:11:15 | 55.12 | 49.22 | 525 | 2.48 | 0.13 | 28.7 |
| 4/16/2015 11:11:15 | 55.45 | 49.55 | 593 | 2.49 | 0.12 | 32.4 |
| 4/16/2015 11:11:16 | 55.77 | 49.87 | 627 | 2.49 | 0.13 | 34.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 11:11:16 | 56.10 | 50.20 | 663 | 2.50 | 0.13 | 36.2 |
| 4/16/2015 | 11:11:17 | 56.43 | 50.53 | 671 | 2.49 | 0.13 | 36.7 |
| 4/16/2015 | 11:11:17 | 56.76 | 50.86 | 671 | 2.49 | 0.13 | 36.7 |
| 4/16/2015 | 11:11:18 | 57.09 | 51.19 | 663 | 2.48 | 0.13 | 36.3 |
| 4/16/2015 | 11:11:18 | 57.41 | 51.51 | 667 | 2.50 | 0.13 | 36.5 |
| 4/16/2015 | 11:11:19 | 57.74 | 51.84 | 664 | 2.49 | 0.13 | 36.3 |
| 4/16/2015 | 11:11:33 | 58.07 | 52.17 | 0 | 2.52 | 1.17 | 0.0 |
| 4/16/2015 | 11:11:34 | 58.40 | 52.50 | 142 | 2.64 | 1.31 | 7.7 |
| 4/16/2015 | 11:11:36 | 58.73 | 52.83 | 218 | 2.63 | 1.29 | 11.9 |
| 4/16/2015 | 11:11:40 | 59.06 | 53.16 | 87 | 2.66 | 1.44 | 4.7 |
| 4/16/2015 | 11:11:51 | 59.38 | 53.48 | 25 | 2.64 | 1.28 | 1.4 |
| 4/16/2015 | 11:11:59 | 59.71 | 53.81 | 51 | 2.66 | 1.29 | 2.8 |
| 4/16/2015 | 11:12:18 | 60.04 | 54.14 | 64 | 2.69 | 1.43 | 3.5 |
| 4/16/2015 | 11:30:15 | 60.37 | 54.47 | 4 | 2.57 | 0.26 | 0.2 |
| 4/16/2015 | 11:32:36 | 60.43 | 54.53 | 6 | 2.69 | 1.49 | 0.3 |

## B46 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 11:03:05

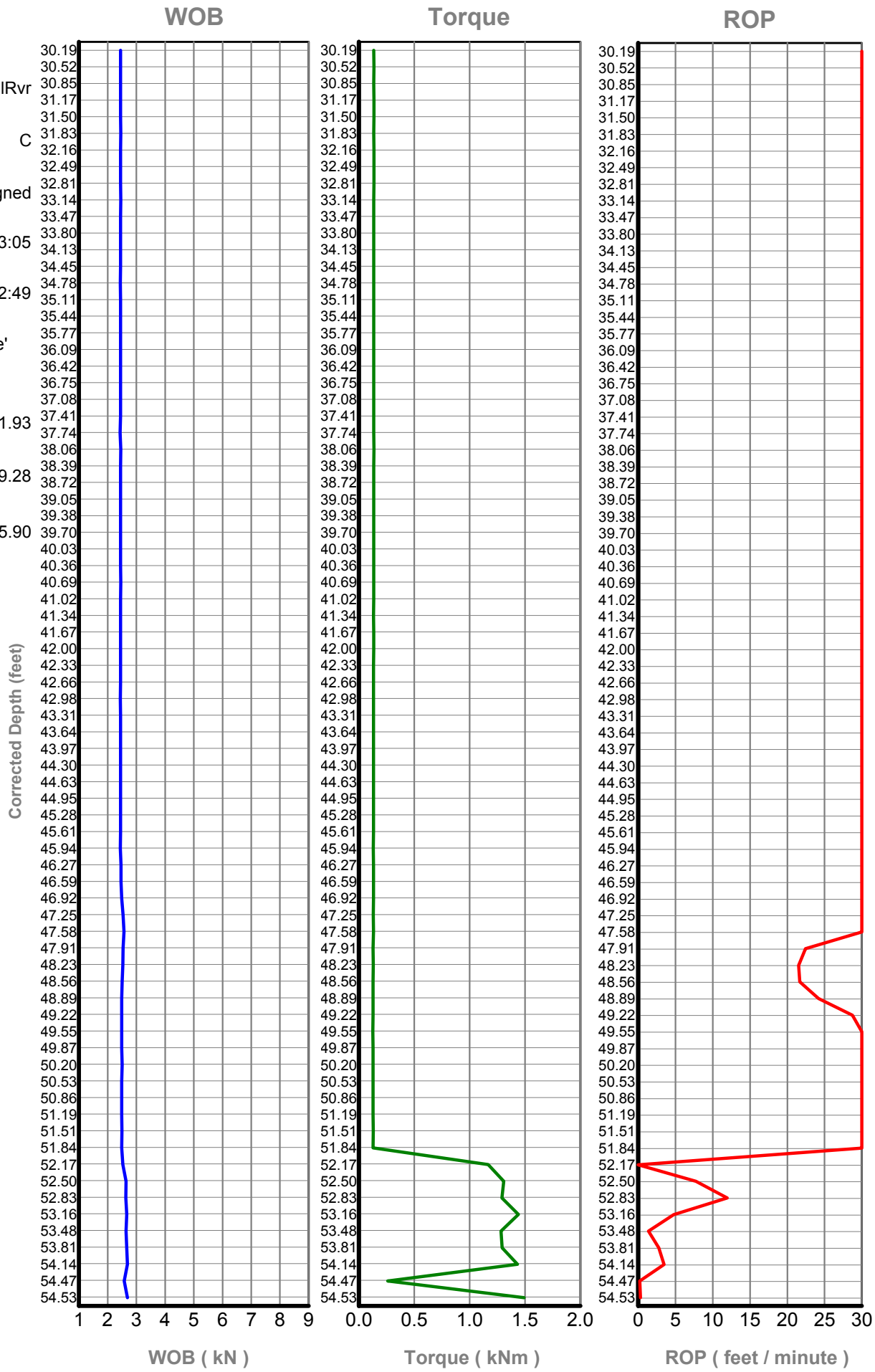
**End Date:**
4/16/2015 11:42:49

**Operator Note:**
'5.9 5.8 c Auto Complete'

**Northing:**
370,931.93

**Easting:**
260,089.28

**Tide (feet):**
5.90



## Hole: B47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 12:15:49 | 35.76 | 30.06 | 873 | 2.43 | 0.13 | 47.7 |
| 4/16/2015 12:15:50 | 36.09 | 30.39 | 865 | 2.44 | 0.13 | 47.3 |
| 4/16/2015 12:15:50 | 36.42 | 30.72 | 873 | 2.42 | 0.13 | 47.8 |
| 4/16/2015 12:15:51 | 36.75 | 31.05 | 873 | 2.42 | 0.13 | 47.8 |
| 4/16/2015 12:15:51 | 37.07 | 31.37 | 873 | 2.42 | 0.13 | 47.8 |
| 4/16/2015 12:15:51 | 37.40 | 31.70 | 868 | 2.43 | 0.13 | 47.4 |
| 4/16/2015 12:15:52 | 37.73 | 32.03 | 868 | 2.44 | 0.13 | 47.4 |
| 4/16/2015 12:15:52 | 38.06 | 32.36 | 870 | 2.43 | 0.13 | 47.6 |
| 4/16/2015 12:15:53 | 38.39 | 32.69 | 870 | 2.43 | 0.13 | 47.6 |
| 4/16/2015 12:15:53 | 38.71 | 33.01 | 881 | 2.47 | 0.13 | 48.2 |
| 4/16/2015 12:15:53 | 39.04 | 33.34 | 878 | 2.42 | 0.05 | 48.0 |
| 4/16/2015 12:15:54 | 39.37 | 33.67 | 878 | 2.43 | 0.13 | 48.0 |
| 4/16/2015 12:15:55 | 39.70 | 34.00 | 876 | 2.43 | 0.13 | 47.9 |
| 4/16/2015 12:15:55 | 40.03 | 34.33 | 876 | 2.43 | 0.13 | 47.9 |
| 4/16/2015 12:15:55 | 40.35 | 34.65 | 876 | 2.44 | 0.13 | 47.9 |
| 4/16/2015 12:15:56 | 40.68 | 34.98 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 12:15:56 | 41.01 | 35.31 | 868 | 2.43 | 0.13 | 47.4 |
| 4/16/2015 12:15:57 | 41.34 | 35.64 | 868 | 2.43 | 0.13 | 47.4 |
| 4/16/2015 12:15:57 | 41.67 | 35.97 | 871 | 2.42 | 0.13 | 47.6 |
| 4/16/2015 12:15:57 | 41.99 | 36.29 | 876 | 2.42 | 0.13 | 47.9 |
| 4/16/2015 12:15:58 | 42.32 | 36.62 | 873 | 2.43 | 0.13 | 47.7 |
| 4/16/2015 12:15:58 | 42.65 | 36.95 | 859 | 2.44 | 0.13 | 47.0 |
| 4/16/2015 12:15:59 | 42.98 | 37.28 | 859 | 2.44 | 0.13 | 47.0 |
| 4/16/2015 12:15:59 | 43.31 | 37.61 | 859 | 2.43 | 0.13 | 47.0 |
| 4/16/2015 12:15:59 | 43.64 | 37.94 | 866 | 2.43 | 0.13 | 47.3 |
| 4/16/2015 12:16:00 | 43.96 | 38.26 | 873 | 2.44 | 0.13 | 47.8 |
| 4/16/2015 12:16:00 | 44.29 | 38.59 | 866 | 2.43 | 0.13 | 47.3 |
| 4/16/2015 12:16:01 | 44.62 | 38.92 | 866 | 2.43 | 0.13 | 47.3 |
| 4/16/2015 12:16:01 | 44.95 | 39.25 | 868 | 2.42 | 0.13 | 47.5 |
| 4/16/2015 12:16:01 | 45.28 | 39.58 | 882 | 2.44 | 0.13 | 48.3 |
| 4/16/2015 12:16:02 | 45.60 | 39.90 | 876 | 2.42 | 0.12 | 47.9 |
| 4/16/2015 12:16:02 | 45.93 | 40.23 | 876 | 2.42 | 0.12 | 47.9 |
| 4/16/2015 12:16:02 | 46.26 | 40.56 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:03 | 46.59 | 40.89 | 873 | 2.43 | 0.12 | 47.7 |
| 4/16/2015 12:16:03 | 46.92 | 41.22 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:04 | 47.24 | 41.54 | 870 | 2.42 | 0.12 | 47.6 |
| 4/16/2015 12:16:05 | 47.57 | 41.87 | 870 | 2.42 | 0.12 | 47.6 |
| 4/16/2015 12:16:04 | 47.90 | 42.20 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:05 | 48.23 | 42.53 | 873 | 2.44 | 0.13 | 47.7 |
| 4/16/2015 12:16:06 | 48.56 | 42.86 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:06 | 48.88 | 43.18 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:07 | 49.21 | 43.51 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:07 | 49.54 | 43.84 | 867 | 2.43 | 0.13 | 47.4 |
| 4/16/2015 12:16:07 | 49.87 | 44.17 | 878 | 2.42 | 0.13 | 48.0 |
| 4/16/2015 12:16:08 | 50.20 | 44.50 | 870 | 2.42 | 0.12 | 47.6 |
| 4/16/2015 12:16:08 | 50.53 | 44.83 | 870 | 2.42 | 0.12 | 47.6 |
| 4/16/2015 12:16:08 | 50.85 | 45.15 | 875 | 2.43 | 0.12 | 47.9 |
| 4/16/2015 12:16:09 | 51.18 | 45.48 | 870 | 2.44 | 0.12 | 47.6 |
| 4/16/2015 12:16:09 | 51.51 | 45.81 | 873 | 2.43 | 0.12 | 47.7 |
| 4/16/2015 12:16:10 | 51.84 | 46.14 | 867 | 2.44 | 0.12 | 47.4 |
| 4/16/2015 12:16:10 | 52.17 | 46.47 | 867 | 2.44 | 0.12 | 47.4 |
| 4/16/2015 12:16:10 | 52.49 | 46.79 | 867 | 2.44 | 0.12 | 47.4 |
| 4/16/2015 12:16:11 | 52.82 | 47.12 | 862 | 2.42 | 0.14 | 47.1 |
| 4/16/2015 12:16:11 | 53.15 | 47.45 | 870 | 2.44 | 0.13 | 47.6 |
| 4/16/2015 12:16:12 | 53.48 | 47.78 | 867 | 2.42 | 0.13 | 47.4 |
| 4/16/2015 12:16:12 | 53.81 | 48.11 | 867 | 2.42 | 0.13 | 47.4 |
| 4/16/2015 12:16:12 | 54.13 | 48.43 | 867 | 2.43 | 0.12 | 47.4 |
| 4/16/2015 12:16:13 | 54.46 | 48.76 | 867 | 2.43 | 0.13 | 47.4 |
| 4/16/2015 12:16:13 | 54.79 | 49.09 | 870 | 2.45 | 0.12 | 47.6 |
| 4/16/2015 12:16:33 | 55.12 | 49.42 | 0 | 2.55 | 0.83 | 0.0 |
| 4/16/2015 12:16:35 | 55.45 | 49.75 | 141 | 2.62 | 1.50 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 12:16:40 | 55.77 | 50.07 | 110 | 2.55 | 1.24 | 6.0 |
| 4/16/2015 | 12:16:41 | 56.10 | 50.40 | 249 | 2.58 | 1.31 | 13.6 |
| 4/16/2015 | 12:16:42 | 56.43 | 50.73 | 320 | 2.55 | 1.24 | 17.5 |
| 4/16/2015 | 12:16:43 | 56.76 | 51.06 | 376 | 2.57 | 1.30 | 20.6 |
| 4/16/2015 | 12:16:44 | 57.09 | 51.39 | 399 | 2.55 | 1.10 | 21.8 |
| 4/16/2015 | 12:16:45 | 57.41 | 51.71 | 402 | 2.56 | 1.23 | 22.0 |
| 4/16/2015 | 12:16:46 | 57.74 | 52.04 | 350 | 2.63 | 1.34 | 19.1 |
| 4/16/2015 | 12:16:49 | 58.07 | 52.37 | 84 | 2.69 | 1.21 | 4.6 |
| 4/16/2015 | 12:16:52 | 58.40 | 52.70 | 162 | 2.63 | 1.29 | 8.8 |
| 4/16/2015 | 12:16:55 | 58.73 | 53.03 | 98 | 2.67 | 1.36 | 5.4 |
| 4/16/2015 | 12:17:06 | 59.06 | 53.36 | 3 | 2.66 | 1.27 | 0.1 |
| 4/16/2015 | 12:17:15 | 59.38 | 53.68 | 49 | 2.70 | 1.28 | 2.7 |
| 4/16/2015 | 12:17:22 | 59.71 | 54.01 | 58 | 2.71 | 1.32 | 3.1 |
| 4/16/2015 | 12:17:26 | 60.04 | 54.34 | 84 | 2.67 | 1.19 | 4.6 |
| 4/16/2015 | 12:17:34 | 60.37 | 54.67 | 29 | 2.71 | 1.22 | 1.6 |
| 4/16/2015 | 12:17:39 | 60.70 | 55.00 | 66 | 2.68 | 1.32 | 3.6 |
| 4/16/2015 | 12:17:43 | 61.02 | 55.32 | 113 | 2.71 | 1.20 | 6.2 |
| 4/16/2015 | 12:17:47 | 61.14 | 55.44 | 35 | 2.63 | 1.33 | 1.9 |

## B47 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 12:09:46

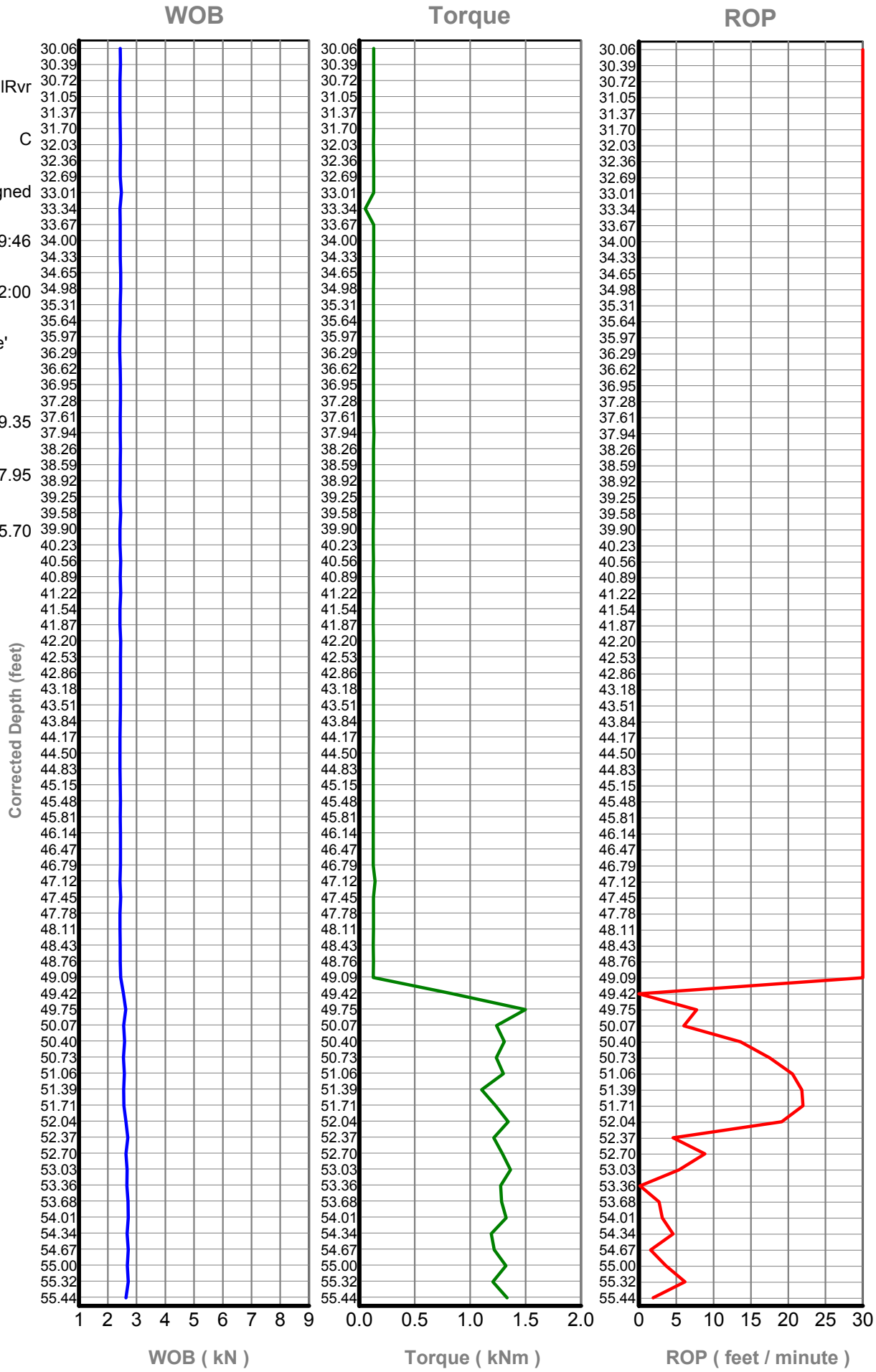
**End Date:**
4/16/2015 12:22:00

**Operator Note:**
'5.7 6.1 c Auto Complete'

**Northing:**
371,009.35

**Easting:**
260,097.95

**Tide (feet):**
5.70



## Hole: B48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:31:24 | 36.42 | 30.22 | 1,103 | 0.58 | 0.36 | 60.3 |
| 4/16/2015 23:31:25 | 36.75 | 30.55 | 1,103 | 0.58 | 0.36 | 60.3 |
| 4/16/2015 23:31:25 | 37.07 | 30.87 | 1,109 | 0.58 | 0.36 | 60.6 |
| 4/16/2015 23:31:26 | 37.40 | 31.20 | 1,109 | 0.58 | 0.36 | 60.6 |
| 4/16/2015 23:31:26 | 37.73 | 31.53 | 1,109 | 0.58 | 0.36 | 60.6 |
| 4/16/2015 23:31:26 | 38.06 | 31.86 | 1,109 | 0.57 | 0.37 | 60.6 |
| 4/16/2015 23:31:27 | 38.39 | 32.19 | 1,109 | 0.57 | 0.37 | 60.6 |
| 4/16/2015 23:31:27 | 38.71 | 32.51 | 1,121 | 0.58 | 0.36 | 61.3 |
| 4/16/2015 23:31:27 | 39.04 | 32.84 | 1,120 | 0.57 | 0.36 | 61.2 |
| 4/16/2015 23:31:28 | 39.37 | 33.17 | 1,120 | 0.57 | 0.36 | 61.2 |
| 4/16/2015 23:31:28 | 39.70 | 33.50 | 1,110 | 0.57 | 0.35 | 60.7 |
| 4/16/2015 23:31:28 | 40.03 | 33.83 | 1,110 | 0.57 | 0.35 | 60.7 |
| 4/16/2015 23:31:28 | 40.35 | 34.15 | 1,101 | 0.57 | 0.35 | 60.2 |
| 4/16/2015 23:31:29 | 40.68 | 34.48 | 1,101 | 0.57 | 0.35 | 60.2 |
| 4/16/2015 23:31:29 | 41.01 | 34.81 | 1,101 | 0.57 | 0.35 | 60.2 |
| 4/16/2015 23:31:29 | 41.34 | 35.14 | 1,111 | 0.57 | 0.35 | 60.8 |
| 4/16/2015 23:31:30 | 41.67 | 35.47 | 1,111 | 0.57 | 0.35 | 60.8 |
| 4/16/2015 23:31:30 | 41.99 | 35.79 | 1,115 | 0.57 | 0.36 | 60.9 |
| 4/16/2015 23:31:30 | 42.32 | 36.12 | 1,112 | 0.57 | 0.36 | 60.8 |
| 4/16/2015 23:31:31 | 42.65 | 36.45 | 1,112 | 0.57 | 0.36 | 60.8 |
| 4/16/2015 23:31:31 | 42.98 | 36.78 | 1,108 | 0.54 | 0.36 | 60.6 |
| 4/16/2015 23:31:31 | 43.31 | 37.11 | 1,128 | 0.57 | 0.35 | 61.7 |
| 4/16/2015 23:31:32 | 43.64 | 37.44 | 1,128 | 0.57 | 0.35 | 61.7 |
| 4/16/2015 23:31:32 | 43.96 | 37.76 | 1,104 | 0.57 | 0.36 | 60.4 |
| 4/16/2015 23:31:32 | 44.29 | 38.09 | 1,104 | 0.57 | 0.36 | 60.4 |
| 4/16/2015 23:31:32 | 44.62 | 38.42 | 1,118 | 0.54 | 0.35 | 61.1 |
| 4/16/2015 23:31:33 | 44.95 | 38.75 | 1,114 | 0.56 | 0.36 | 60.9 |
| 4/16/2015 23:31:33 | 45.28 | 39.08 | 1,114 | 0.56 | 0.36 | 60.9 |
| 4/16/2015 23:31:33 | 45.60 | 39.40 | 1,117 | 0.57 | 0.36 | 61.1 |
| 4/16/2015 23:31:34 | 45.93 | 39.73 | 1,117 | 0.57 | 0.36 | 61.1 |
| 4/16/2015 23:31:34 | 46.26 | 40.06 | 1,114 | 0.57 | 0.35 | 60.9 |
| 4/16/2015 23:31:34 | 46.59 | 40.39 | 1,123 | 0.57 | 0.35 | 61.4 |
| 4/16/2015 23:31:35 | 46.92 | 40.72 | 1,123 | 0.57 | 0.35 | 61.4 |
| 4/16/2015 23:31:35 | 47.24 | 41.04 | 1,109 | 0.57 | 0.36 | 60.6 |
| 4/16/2015 23:31:35 | 47.57 | 41.37 | 1,116 | 0.57 | 0.36 | 61.0 |
| 4/16/2015 23:31:36 | 47.90 | 41.70 | 1,116 | 0.57 | 0.36 | 61.0 |
| 4/16/2015 23:31:36 | 48.23 | 42.03 | 1,110 | 0.56 | 0.36 | 60.7 |
| 4/16/2015 23:31:37 | 48.56 | 42.36 | 1,110 | 0.56 | 0.36 | 60.7 |
| 4/16/2015 23:31:37 | 48.88 | 42.68 | 1,104 | 0.57 | 0.36 | 60.4 |
| 4/16/2015 23:31:37 | 49.21 | 43.01 | 1,090 | 0.58 | 0.36 | 59.6 |
| 4/16/2015 23:31:38 | 49.54 | 43.34 | 1,090 | 0.58 | 0.36 | 59.6 |
| 4/16/2015 23:31:38 | 49.87 | 43.67 | 1,103 | 0.57 | 0.36 | 60.3 |
| 4/16/2015 23:31:38 | 50.20 | 44.00 | 1,097 | 0.57 | 0.35 | 60.0 |
| 4/16/2015 23:31:39 | 50.53 | 44.33 | 1,097 | 0.57 | 0.35 | 60.0 |
| 4/16/2015 23:31:39 | 50.85 | 44.65 | 1,100 | 0.58 | 0.38 | 60.2 |
| 4/16/2015 23:31:39 | 51.18 | 44.98 | 1,100 | 0.58 | 0.38 | 60.2 |
| 4/16/2015 23:31:59 | 51.51 | 45.31 | 0 | 3.29 | 0.51 | 0.0 |
| 4/16/2015 23:32:00 | 51.84 | 45.64 | 0 | 3.29 | 0.51 | 0.0 |
| 4/16/2015 23:32:00 | 52.17 | 45.97 | 120 | 3.30 | 0.37 | 6.6 |
| 4/16/2015 23:32:00 | 52.49 | 46.29 | 309 | 3.26 | 0.50 | 16.9 |
| 4/16/2015 23:32:01 | 52.82 | 46.62 | 309 | 3.26 | 0.50 | 16.9 |
| 4/16/2015 23:32:01 | 53.15 | 46.95 | 527 | 3.27 | 0.45 | 28.8 |
| 4/16/2015 23:32:01 | 53.48 | 47.28 | 733 | 3.31 | 0.43 | 40.1 |
| 4/16/2015 23:32:02 | 53.81 | 47.61 | 733 | 3.31 | 0.43 | 40.1 |
| 4/16/2015 23:32:02 | 54.13 | 47.93 | 919 | 3.27 | 0.42 | 50.2 |
| 4/16/2015 23:32:02 | 54.46 | 48.26 | 993 | 3.31 | 0.44 | 54.3 |
| 4/16/2015 23:32:03 | 54.79 | 48.59 | 1,007 | 3.31 | 0.44 | 55.1 |
| 4/16/2015 23:32:03 | 55.12 | 48.92 | 1,007 | 3.31 | 0.44 | 55.1 |
| 4/16/2015 23:32:03 | 55.45 | 49.25 | 980 | 3.61 | 0.44 | 53.6 |
| 4/16/2015 23:32:04 | 55.77 | 49.57 | 963 | 3.81 | 0.43 | 52.6 |
| 4/16/2015 23:32:04 | 56.10 | 49.90 | 963 | 3.81 | 0.43 | 52.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 23:32:04 | 56.43 | 50.23 | 960 | 3.43 | 0.44 | 52.5 |
| 4/16/2015 | 23:32:06 | 56.76 | 50.56 | 435 | 5.09 | 0.54 | 23.8 |
| 4/16/2015 | 23:32:09 | 57.09 | 50.89 | 141 | 4.35 | 0.48 | 7.7 |
| 4/16/2015 | 23:32:20 | 57.41 | 51.21 | 0 | 4.97 | 0.53 | 0.0 |
| 4/16/2015 | 23:32:25 | 57.74 | 51.54 | 82 | 5.27 | 0.43 | 4.5 |
| 4/16/2015 | 23:32:26 | 58.07 | 51.87 | 168 | 4.51 | 0.44 | 9.2 |
| 4/16/2015 | 23:32:26 | 58.40 | 52.20 | 242 | 4.66 | 0.48 | 13.2 |
| 4/16/2015 | 23:32:28 | 58.73 | 52.53 | 376 | 4.51 | 0.41 | 20.6 |
| 4/16/2015 | 23:32:29 | 59.06 | 52.86 | 397 | 5.17 | 0.41 | 21.7 |
| 4/16/2015 | 23:32:29 | 59.38 | 53.18 | 387 | 4.61 | 0.45 | 21.2 |
| 4/16/2015 | 23:32:30 | 59.71 | 53.51 | 397 | 4.34 | 0.40 | 21.7 |
| 4/16/2015 | 23:32:31 | 60.04 | 53.84 | 439 | 5.26 | 0.41 | 24.0 |
| 4/16/2015 | 23:32:31 | 60.17 | 53.97 | 448 | 4.16 | 0.23 | 24.5 |

## B48 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:29:02

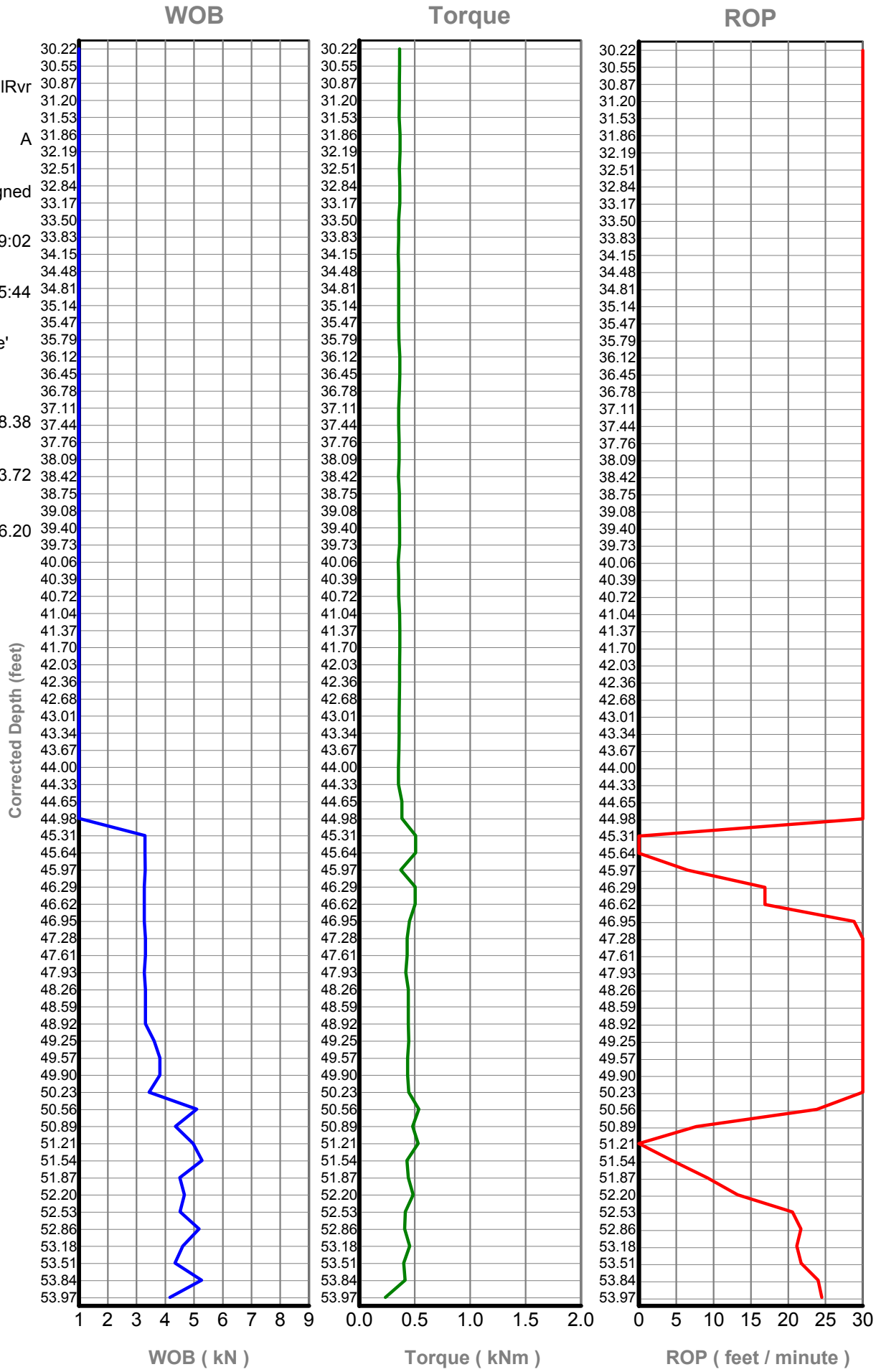
**End Date:**
4/16/2015 23:35:44

**Operator Note:**
'6.2 6.4 a Auto Complete'

**Northing:**
370,738.38

**Easting:**
259,483.72

**Tide (feet):**
6.20



## Hole: B49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 23:53:33 | 36.42 | 30.12 | 1,109 | 0.57 | 0.36 | 60.6 |
| 4/16/2015 23:53:33 | 36.75 | 30.45 | 1,122 | 0.57 | 0.36 | 61.3 |
| 4/16/2015 23:53:34 | 37.07 | 30.77 | 1,122 | 0.57 | 0.36 | 61.3 |
| 4/16/2015 23:53:34 | 37.40 | 31.10 | 1,122 | 0.57 | 0.36 | 61.3 |
| 4/16/2015 23:53:34 | 37.73 | 31.43 | 1,122 | 0.57 | 0.36 | 61.3 |
| 4/16/2015 23:53:34 | 38.06 | 31.76 | 1,119 | 0.56 | 0.35 | 61.2 |
| 4/16/2015 23:53:35 | 38.39 | 32.09 | 1,124 | 0.57 | 0.35 | 61.5 |
| 4/16/2015 23:53:35 | 38.71 | 32.41 | 1,124 | 0.57 | 0.35 | 61.5 |
| 4/16/2015 23:53:36 | 39.04 | 32.74 | 1,134 | 0.56 | 0.35 | 62.0 |
| 4/16/2015 23:53:36 | 39.37 | 33.07 | 1,134 | 0.56 | 0.35 | 62.0 |
| 4/16/2015 23:53:36 | 39.70 | 33.40 | 1,099 | 0.57 | 0.36 | 60.1 |
| 4/16/2015 23:53:37 | 40.03 | 33.73 | 1,099 | 0.56 | 0.35 | 60.1 |
| 4/16/2015 23:53:37 | 40.35 | 34.05 | 1,099 | 0.56 | 0.35 | 60.1 |
| 4/16/2015 23:53:37 | 40.68 | 34.38 | 1,122 | 0.57 | 0.36 | 61.3 |
| 4/16/2015 23:53:38 | 41.01 | 34.71 | 1,115 | 0.57 | 0.35 | 61.0 |
| 4/16/2015 23:53:38 | 41.34 | 35.04 | 1,115 | 0.57 | 0.35 | 61.0 |
| 4/16/2015 23:53:38 | 41.67 | 35.37 | 1,113 | 0.57 | 0.36 | 60.9 |
| 4/16/2015 23:53:39 | 41.99 | 35.69 | 1,113 | 0.57 | 0.36 | 60.9 |
| 4/16/2015 23:53:39 | 42.32 | 36.02 | 1,077 | 0.56 | 0.35 | 58.9 |
| 4/16/2015 23:53:39 | 42.65 | 36.35 | 1,077 | 0.56 | 0.35 | 58.9 |
| 4/16/2015 23:53:40 | 42.98 | 36.68 | 1,077 | 0.56 | 0.35 | 58.9 |
| 4/16/2015 23:53:40 | 43.31 | 37.01 | 1,127 | 0.56 | 0.35 | 61.6 |
| 4/16/2015 23:53:40 | 43.64 | 37.34 | 1,127 | 0.56 | 0.35 | 61.6 |
| 4/16/2015 23:53:40 | 43.96 | 37.66 | 1,101 | 0.57 | 0.35 | 60.2 |
| 4/16/2015 23:53:41 | 44.29 | 37.99 | 1,108 | 0.56 | 0.35 | 60.6 |
| 4/16/2015 23:53:41 | 44.62 | 38.32 | 1,108 | 0.56 | 0.35 | 60.6 |
| 4/16/2015 23:53:41 | 44.95 | 38.65 | 1,098 | 0.57 | 0.36 | 60.0 |
| 4/16/2015 23:53:42 | 45.28 | 38.98 | 1,133 | 0.56 | 0.35 | 62.0 |
| 4/16/2015 23:53:42 | 45.60 | 39.30 | 1,133 | 0.56 | 0.35 | 62.0 |
| 4/16/2015 23:53:42 | 45.93 | 39.63 | 1,116 | 0.56 | 0.35 | 61.0 |
| 4/16/2015 23:53:43 | 46.26 | 39.96 | 1,116 | 0.56 | 0.35 | 61.0 |
| 4/16/2015 23:53:43 | 46.59 | 40.29 | 1,116 | 0.56 | 0.36 | 61.0 |
| 4/16/2015 23:53:43 | 46.92 | 40.62 | 1,104 | 0.57 | 0.35 | 60.4 |
| 4/16/2015 23:53:44 | 47.24 | 40.94 | 1,104 | 0.57 | 0.35 | 60.4 |
| 4/16/2015 23:53:44 | 47.57 | 41.27 | 1,117 | 0.57 | 0.35 | 61.1 |
| 4/16/2015 23:53:44 | 47.90 | 41.60 | 1,117 | 0.57 | 0.35 | 61.1 |
| 4/16/2015 23:53:44 | 48.23 | 41.93 | 1,104 | 0.54 | 0.35 | 60.4 |
| 4/16/2015 23:53:45 | 48.56 | 42.26 | 1,101 | 0.56 | 0.35 | 60.2 |
| 4/16/2015 23:53:45 | 48.88 | 42.58 | 1,101 | 0.56 | 0.35 | 60.2 |
| 4/16/2015 23:53:45 | 49.21 | 42.91 | 1,104 | 0.56 | 0.35 | 60.4 |
| 4/16/2015 23:53:46 | 49.54 | 43.24 | 1,110 | 0.56 | 0.35 | 60.7 |
| 4/16/2015 23:53:46 | 49.87 | 43.57 | 1,110 | 0.56 | 0.35 | 60.7 |
| 4/16/2015 23:53:46 | 50.20 | 43.90 | 1,107 | 0.33 | 0.35 | 60.5 |
| 4/16/2015 23:53:47 | 50.53 | 44.23 | 1,107 | 0.33 | 0.35 | 60.5 |
| 4/16/2015 23:53:47 | 50.85 | 44.55 | 1,104 | 0.56 | 0.36 | 60.4 |
| 4/16/2015 23:54:19 | 51.18 | 44.88 | 29 | 4.65 | 0.53 | 1.6 |
| 4/16/2015 23:54:20 | 51.51 | 45.21 | 146 | 4.95 | 0.54 | 8.0 |
| 4/16/2015 23:54:23 | 51.84 | 45.54 | 160 | 5.13 | 0.53 | 8.8 |
| 4/16/2015 23:54:25 | 52.17 | 45.87 | 154 | 5.11 | 0.55 | 8.4 |
| 4/16/2015 23:54:48 | 52.49 | 46.19 | 0 | 4.24 | 0.41 | 0.0 |
| 4/16/2015 23:54:50 | 52.82 | 46.52 | 183 | 4.90 | 0.52 | 10.0 |
| 4/16/2015 23:54:51 | 53.15 | 46.85 | 305 | 5.50 | 0.51 | 16.7 |
| 4/16/2015 23:54:56 | 53.48 | 47.18 | 66 | 5.28 | 0.56 | 3.6 |
| 4/16/2015 23:55:08 | 53.81 | 47.51 | 11 | 5.32 | 0.42 | 0.6 |
| 4/16/2015 23:55:09 | 54.13 | 47.83 | 142 | 5.32 | 0.42 | 7.8 |
| 4/16/2015 23:55:10 | 54.46 | 48.16 | 272 | 4.73 | 0.52 | 14.9 |
| 4/16/2015 23:55:16 | 54.79 | 48.49 | 58 | 4.32 | 0.50 | 3.2 |
| 4/16/2015 23:55:32 | 55.12 | 48.82 | 3 | 4.15 | 0.48 | 0.1 |
| 4/16/2015 23:55:35 | 55.45 | 49.15 | 96 | 5.17 | 0.44 | 5.2 |
| 4/17/2015 0:00:09 | 55.77 | 49.47 | 82 | 4.66 | 0.42 | 4.5 |
| 4/17/2015 0:00:12 | 56.10 | 49.80 | 150 | 5.12 | 0.47 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 0:00:15 | 56.43 | 50.13 | 96 | 5.12 | 0.51 | 5.2 |
| 4/17/2015 | 0:00:18 | 56.76 | 50.46 | 110 | 4.29 | 0.44 | 6.0 |
| 4/17/2015 | 0:00:21 | 57.09 | 50.79 | 156 | 4.64 | 0.52 | 8.6 |
| 4/17/2015 | 0:00:26 | 57.41 | 51.11 | 98 | 4.11 | 0.47 | 5.4 |
| 4/17/2015 | 0:00:30 | 57.74 | 51.44 | 92 | 3.79 | 0.47 | 5.1 |
| 4/17/2015 | 0:00:33 | 58.07 | 51.77 | 104 | 4.19 | 0.45 | 5.7 |
| 4/17/2015 | 0:00:37 | 58.40 | 52.10 | 101 | 3.43 | 0.44 | 5.5 |
| 4/17/2015 | 0:00:41 | 58.73 | 52.43 | 76 | 3.81 | 0.46 | 4.2 |
| 4/17/2015 | 0:00:46 | 59.06 | 52.76 | 84 | 4.38 | 0.47 | 4.6 |
| 4/17/2015 | 0:00:49 | 59.38 | 53.08 | 93 | 4.66 | 0.44 | 5.1 |
| 4/17/2015 | 0:00:54 | 59.71 | 53.41 | 65 | 4.13 | 0.47 | 3.5 |
| 4/17/2015 | 0:01:01 | 60.04 | 53.74 | 58 | 4.05 | 0.44 | 3.2 |
| 4/17/2015 | 0:01:07 | 60.37 | 54.07 | 64 | 3.73 | 0.46 | 3.5 |
| 4/17/2015 | 0:01:16 | 60.70 | 54.40 | 61 | 4.14 | 0.46 | 3.3 |
| 4/17/2015 | 0:01:20 | 61.02 | 54.72 | 84 | 4.53 | 0.46 | 4.6 |
| 4/17/2015 | 0:01:24 | 61.35 | 55.05 | 116 | 4.43 | 0.43 | 6.4 |
| 4/17/2015 | 0:01:27 | 61.60 | 55.30 | 84 | 5.72 | 0.49 | 4.6 |

## B49 - Summary

**Pattern Number:**
AreaB_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 23:51:44

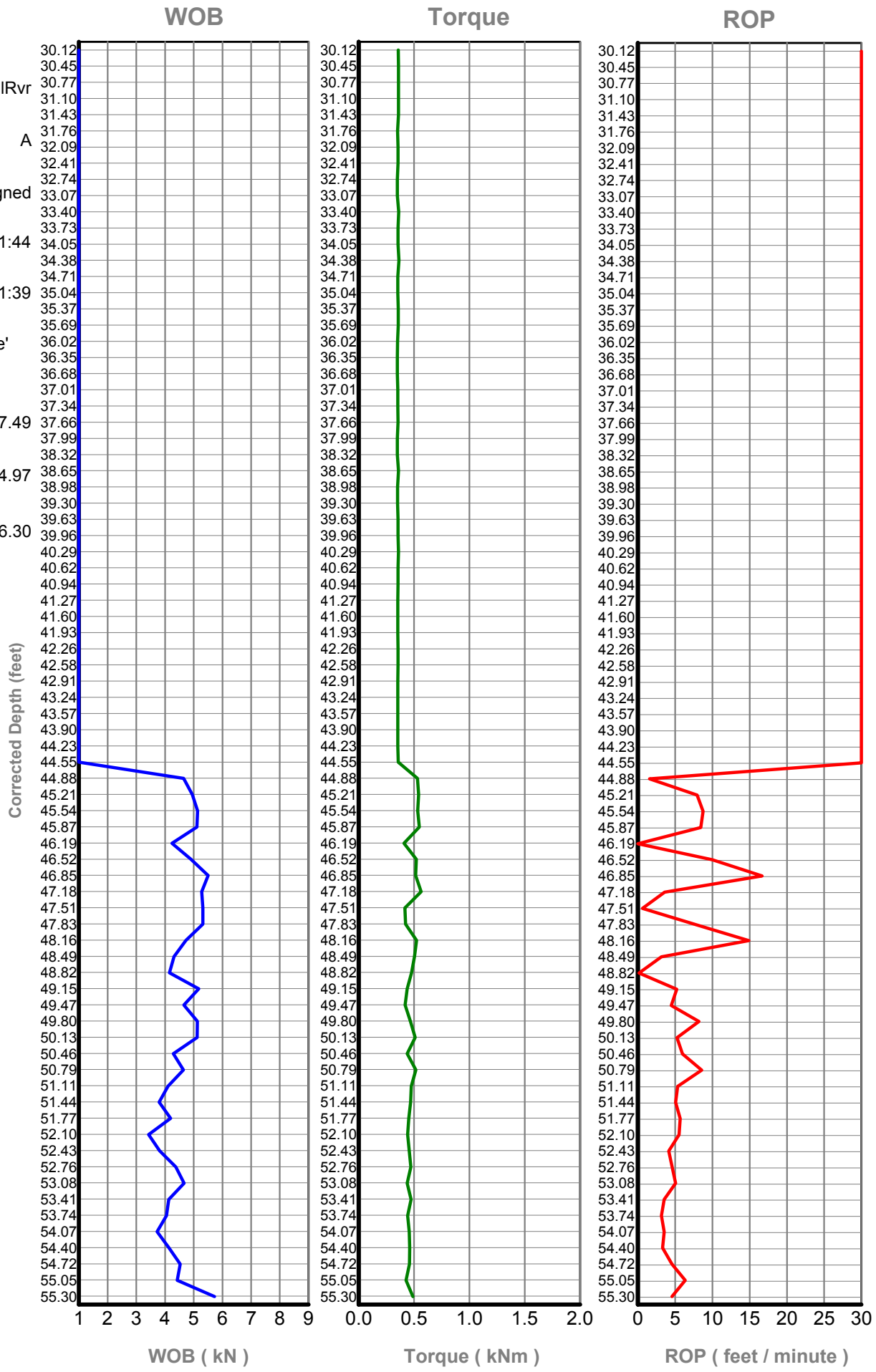
**End Date:**
4/17/2015 0:11:39

**Operator Note:**
'6.3 6.5 a Auto Complete'

**Northing:**
370,807.49

**Easting:**
259,484.97

**Tide (feet):**
6.30



## Hole: B5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:24:59 | 30.18 | 30.18 | 1,188 | 1.60 | 0.34 | 65.0 |
| 4/16/2015 18:24:59 | 30.51 | 30.51 | 1,201 | 1.60 | 0.34 | 65.7 |
| 4/16/2015 18:24:59 | 30.84 | 30.84 | 1,200 | 1.59 | 0.34 | 65.6 |
| 4/16/2015 18:25:00 | 31.17 | 31.17 | 1,200 | 1.59 | 0.34 | 65.6 |
| 4/16/2015 18:25:00 | 31.50 | 31.50 | 1,200 | 1.59 | 0.35 | 65.6 |
| 4/16/2015 18:25:00 | 31.82 | 31.82 | 1,200 | 1.59 | 0.35 | 65.6 |
| 4/16/2015 18:25:00 | 32.15 | 32.15 | 1,191 | 1.60 | 0.34 | 65.1 |
| 4/16/2015 18:25:01 | 32.48 | 32.48 | 1,191 | 1.60 | 0.34 | 65.1 |
| 4/16/2015 18:25:01 | 32.81 | 32.81 | 1,191 | 1.60 | 0.34 | 65.1 |
| 4/16/2015 18:25:02 | 33.14 | 33.14 | 1,181 | 1.59 | 0.34 | 64.6 |
| 4/16/2015 18:25:02 | 33.46 | 33.46 | 1,181 | 1.59 | 0.34 | 64.6 |
| 4/16/2015 18:25:02 | 33.79 | 33.79 | 1,188 | 1.61 | 0.34 | 65.0 |
| 4/16/2015 18:25:03 | 34.12 | 34.12 | 1,188 | 1.61 | 0.34 | 65.0 |
| 4/16/2015 18:25:03 | 34.45 | 34.45 | 1,185 | 1.60 | 0.33 | 64.8 |
| 4/16/2015 18:25:03 | 34.78 | 34.78 | 1,185 | 1.60 | 0.33 | 64.8 |
| 4/16/2015 18:25:03 | 35.11 | 35.11 | 1,188 | 1.59 | 0.34 | 65.0 |
| 4/16/2015 18:25:04 | 35.43 | 35.43 | 1,191 | 1.59 | 0.34 | 65.1 |
| 4/16/2015 18:25:04 | 35.76 | 35.76 | 1,191 | 1.59 | 0.34 | 65.1 |
| 4/16/2015 18:25:04 | 36.09 | 36.09 | 1,194 | 1.60 | 0.34 | 65.3 |
| 4/16/2015 18:25:05 | 36.42 | 36.42 | 1,194 | 1.60 | 0.34 | 65.3 |
| 4/16/2015 18:25:05 | 36.75 | 36.75 | 1,191 | 1.55 | 0.34 | 65.1 |
| 4/16/2015 18:25:05 | 37.07 | 37.07 | 1,191 | 1.55 | 0.34 | 65.1 |
| 4/16/2015 18:25:05 | 37.40 | 37.40 | 1,181 | 1.59 | 0.34 | 64.6 |
| 4/16/2015 18:25:06 | 37.73 | 37.73 | 1,188 | 1.60 | 0.34 | 65.0 |
| 4/16/2015 18:25:06 | 38.06 | 38.06 | 1,188 | 1.60 | 0.34 | 65.0 |
| 4/16/2015 18:25:06 | 38.39 | 38.39 | 1,198 | 1.61 | 0.34 | 65.5 |
| 4/16/2015 18:25:07 | 38.71 | 38.71 | 1,198 | 1.61 | 0.34 | 65.5 |
| 4/16/2015 18:25:07 | 39.04 | 39.04 | 1,185 | 1.59 | 0.34 | 64.8 |
| 4/16/2015 18:25:07 | 39.37 | 39.37 | 1,185 | 1.59 | 0.34 | 64.8 |
| 4/16/2015 18:25:07 | 39.70 | 39.70 | 1,185 | 1.57 | 0.34 | 64.8 |
| 4/16/2015 18:25:08 | 40.03 | 40.03 | 1,183 | 1.60 | 0.34 | 64.7 |
| 4/16/2015 18:25:08 | 40.35 | 40.35 | 1,183 | 1.60 | 0.34 | 64.7 |
| 4/16/2015 18:25:08 | 40.68 | 40.68 | 1,211 | 1.59 | 0.33 | 66.2 |
| 4/16/2015 18:25:09 | 41.01 | 41.01 | 1,211 | 1.59 | 0.33 | 66.2 |
| 4/16/2015 18:25:09 | 41.34 | 41.34 | 1,203 | 1.59 | 0.34 | 65.8 |
| 4/16/2015 18:25:09 | 41.67 | 41.67 | 1,188 | 1.59 | 0.34 | 64.9 |
| 4/16/2015 18:25:10 | 41.99 | 41.99 | 1,188 | 1.59 | 0.34 | 64.9 |
| 4/16/2015 18:25:10 | 42.32 | 42.32 | 1,195 | 1.59 | 0.34 | 65.3 |
| 4/16/2015 18:25:10 | 42.65 | 42.65 | 1,195 | 1.59 | 0.34 | 65.3 |
| 4/16/2015 18:25:10 | 42.98 | 42.98 | 1,203 | 1.79 | 0.40 | 65.8 |
| 4/16/2015 18:25:40 | 43.31 | 43.31 | 0 | 4.11 | 0.25 | 0.0 |
| 4/16/2015 18:25:49 | 43.64 | 43.64 | 58 | 4.72 | 0.55 | 3.2 |
| 4/16/2015 18:25:55 | 43.96 | 43.96 | 64 | 4.76 | 0.55 | 3.5 |
| 4/16/2015 18:25:59 | 44.29 | 44.29 | 84 | 4.84 | 0.53 | 4.6 |
| 4/16/2015 18:26:04 | 44.62 | 44.62 | 81 | 5.27 | 0.54 | 4.4 |
| 4/16/2015 18:26:06 | 44.95 | 44.95 | 121 | 4.85 | 0.51 | 6.6 |
| 4/16/2015 18:26:07 | 45.28 | 45.28 | 239 | 4.59 | 0.53 | 13.1 |
| 4/16/2015 18:26:11 | 45.60 | 45.60 | 69 | 5.00 | 0.54 | 3.8 |
| 4/16/2015 18:26:25 | 45.87 | 45.87 | 0 | 3.93 | 0.49 | 0.0 |

## B5 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:23:16

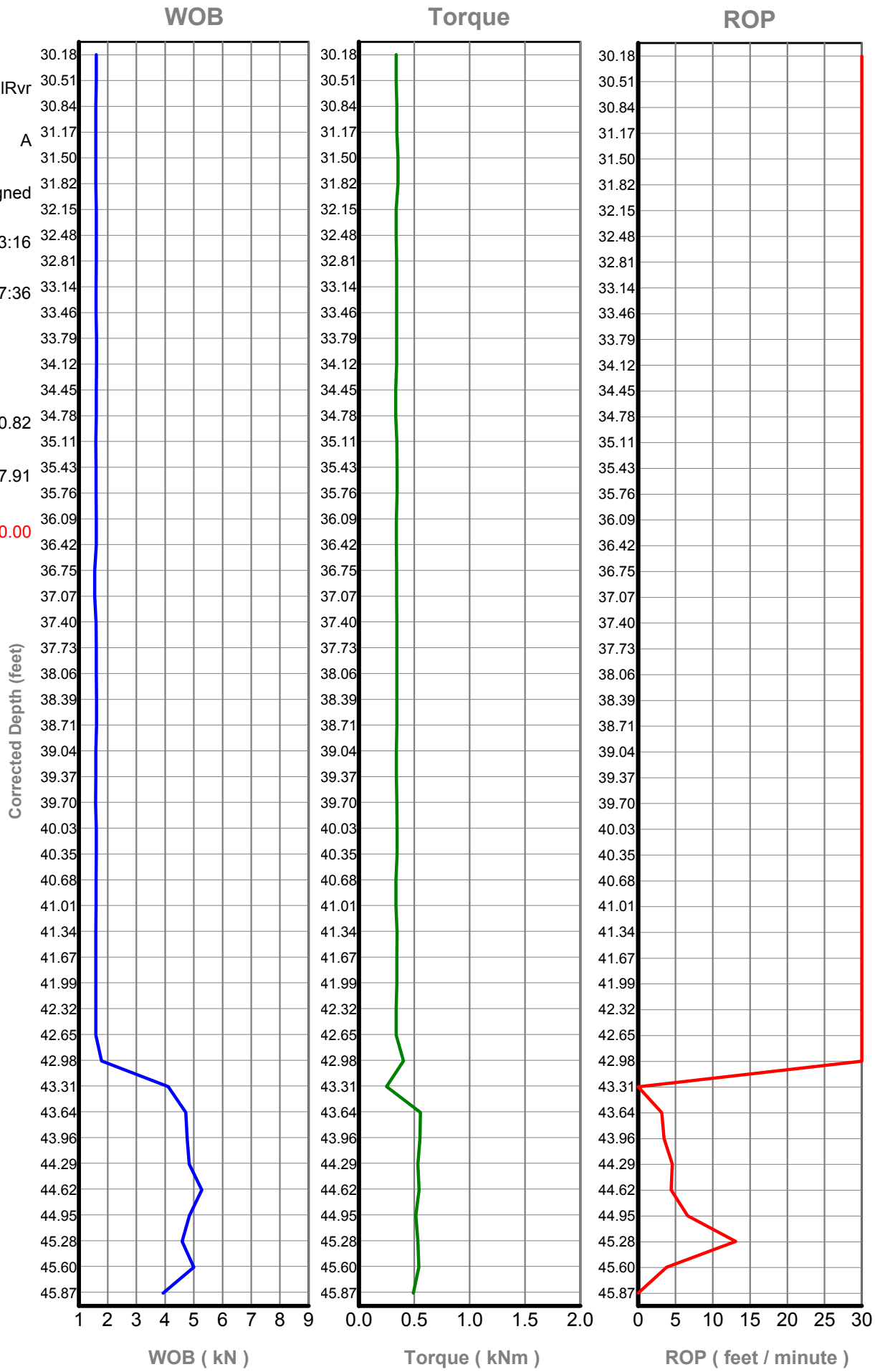
**End Date:**
4/16/2015 18:27:36

**Operator Note:**
'0 .2 a Auto Complete'

**Northing:**
371,100.82

**Easting:**
259,717.91

**Tide (feet):**
0.00



## Hole: B50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:14:21 | 31.50 | 30.20 | 980 | 0.29 | 0.42 | 53.6 |
| 4/17/2015 8:14:21 | 31.82 | 30.52 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 8:14:22 | 32.15 | 30.85 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 8:14:22 | 32.48 | 31.18 | 971 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 8:14:22 | 32.81 | 31.51 | 968 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 8:14:23 | 33.14 | 31.84 | 968 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 8:14:23 | 33.46 | 32.16 | 966 | 0.29 | 0.42 | 52.8 |
| 4/17/2015 8:14:23 | 33.79 | 32.49 | 975 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 8:14:24 | 34.12 | 32.82 | 972 | 0.29 | 0.42 | 53.2 |
| 4/17/2015 8:14:24 | 34.45 | 33.15 | 972 | 0.29 | 0.42 | 53.2 |
| 4/17/2015 8:14:24 | 34.78 | 33.48 | 972 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 8:14:25 | 35.11 | 33.81 | 959 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 8:14:25 | 35.43 | 34.13 | 959 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 8:14:25 | 35.76 | 34.46 | 959 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 8:14:26 | 36.09 | 34.79 | 972 | 0.29 | 0.42 | 53.1 |
| 4/17/2015 8:14:26 | 36.42 | 35.12 | 954 | 0.29 | 0.42 | 52.1 |
| 4/17/2015 8:14:27 | 36.75 | 35.45 | 954 | 0.29 | 0.42 | 52.1 |
| 4/17/2015 8:14:27 | 37.07 | 35.77 | 959 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:27 | 37.40 | 36.10 | 948 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:28 | 37.73 | 36.43 | 948 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:28 | 38.06 | 36.76 | 965 | 0.29 | 0.42 | 52.7 |
| 4/17/2015 8:14:28 | 38.39 | 37.09 | 951 | 0.29 | 0.42 | 52.0 |
| 4/17/2015 8:14:29 | 38.71 | 37.41 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:30 | 39.04 | 37.74 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:30 | 39.37 | 38.07 | 963 | 0.29 | 0.42 | 52.7 |
| 4/17/2015 8:14:30 | 39.70 | 38.40 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 8:14:31 | 40.03 | 38.73 | 974 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 8:14:31 | 40.35 | 39.05 | 975 | 0.29 | 0.42 | 53.3 |
| 4/17/2015 8:14:31 | 40.68 | 39.38 | 964 | 0.29 | 0.42 | 52.7 |
| 4/17/2015 8:14:32 | 41.01 | 39.71 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:32 | 41.34 | 40.04 | 961 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:32 | 41.67 | 40.37 | 967 | 0.29 | 0.42 | 52.9 |
| 4/17/2015 8:14:33 | 41.99 | 40.69 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 8:14:33 | 42.32 | 41.02 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 8:14:33 | 42.65 | 41.35 | 956 | 0.29 | 0.42 | 52.3 |
| 4/17/2015 8:14:34 | 42.98 | 41.68 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:34 | 43.31 | 42.01 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:35 | 43.64 | 42.34 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:35 | 43.96 | 42.66 | 969 | 0.29 | 0.42 | 53.0 |
| 4/17/2015 8:14:35 | 44.29 | 42.99 | 958 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 8:14:36 | 44.62 | 43.32 | 958 | 0.29 | 0.42 | 52.4 |
| 4/17/2015 8:14:36 | 44.95 | 43.65 | 949 | 0.29 | 0.42 | 51.9 |
| 4/17/2015 8:14:36 | 45.28 | 43.98 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:14:37 | 45.60 | 44.30 | 962 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 8:14:37 | 45.93 | 44.63 | 962 | 0.29 | 0.42 | 52.6 |
| 4/17/2015 8:14:37 | 46.26 | 44.96 | 960 | 0.29 | 0.42 | 52.5 |
| 4/17/2015 8:15:00 | 46.59 | 45.29 | 87 | 0.29 | 0.42 | 4.8 |
| 4/17/2015 8:15:02 | 46.92 | 45.62 | 186 | 0.29 | 0.42 | 10.2 |
| 4/17/2015 8:15:08 | 47.24 | 45.94 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 8:15:12 | 47.57 | 46.27 | 102 | 0.29 | 0.42 | 5.6 |
| 4/17/2015 8:15:13 | 47.90 | 46.60 | 125 | 0.29 | 0.42 | 6.8 |
| 4/17/2015 8:15:15 | 48.23 | 46.93 | 237 | 0.29 | 0.42 | 13.0 |
| 4/17/2015 8:15:30 | 48.56 | 47.26 | 35 | 0.29 | 0.42 | 1.9 |
| 4/17/2015 8:15:30 | 48.88 | 47.58 | 126 | 0.29 | 0.42 | 6.9 |
| 4/17/2015 8:15:41 | 49.21 | 47.91 | 58 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 8:15:47 | 49.54 | 48.24 | 19 | 0.29 | 0.42 | 1.0 |
| 4/17/2015 8:15:53 | 49.87 | 48.57 | 56 | 0.29 | 0.42 | 3.0 |
| 4/17/2015 8:15:54 | 50.20 | 48.90 | 238 | 0.29 | 0.42 | 13.0 |
| 4/17/2015 8:15:59 | 50.53 | 49.23 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 8:16:01 | 50.85 | 49.55 | 81 | 0.29 | 0.42 | 4.4 |
| 4/17/2015 8:16:05 | 51.18 | 49.88 | 0 | 0.29 | 0.42 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:16:06 | 51.51 | 50.21 | 129 | 0.29 | 0.42 | 7.0 |
| 4/17/2015 | 8:16:07 | 51.84 | 50.54 | 223 | 0.29 | 0.42 | 12.2 |
| 4/17/2015 | 8:16:08 | 52.17 | 50.87 | 382 | 0.29 | 0.42 | 20.9 |
| 4/17/2015 | 8:16:11 | 52.49 | 51.19 | 32 | 0.29 | 0.42 | 1.8 |
| 4/17/2015 | 8:16:20 | 52.82 | 51.52 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 | 8:16:22 | 53.15 | 51.85 | 119 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 8:16:25 | 53.48 | 52.18 | 105 | 0.29 | 0.42 | 5.7 |
| 4/17/2015 | 8:16:30 | 53.81 | 52.51 | 64 | 0.29 | 0.42 | 3.5 |
| 4/17/2015 | 8:16:33 | 54.13 | 52.83 | 122 | 0.29 | 0.42 | 6.7 |
| 4/17/2015 | 8:16:34 | 54.46 | 53.16 | 186 | 0.29 | 0.42 | 10.2 |
| 4/17/2015 | 8:16:36 | 54.79 | 53.49 | 192 | 0.29 | 0.42 | 10.5 |
| 4/17/2015 | 8:16:38 | 55.12 | 53.82 | 166 | 0.29 | 0.42 | 9.1 |
| 4/17/2015 | 8:16:41 | 55.45 | 54.15 | 149 | 0.29 | 0.42 | 8.2 |
| 4/17/2015 | 8:16:44 | 55.77 | 54.47 | 118 | 0.29 | 0.42 | 6.5 |
| 4/17/2015 | 8:16:48 | 56.10 | 54.80 | 101 | 0.29 | 0.42 | 5.5 |
| 4/17/2015 | 8:16:49 | 56.22 | 54.92 | 98 | 0.29 | 0.42 | 5.4 |

## B50 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:12:27

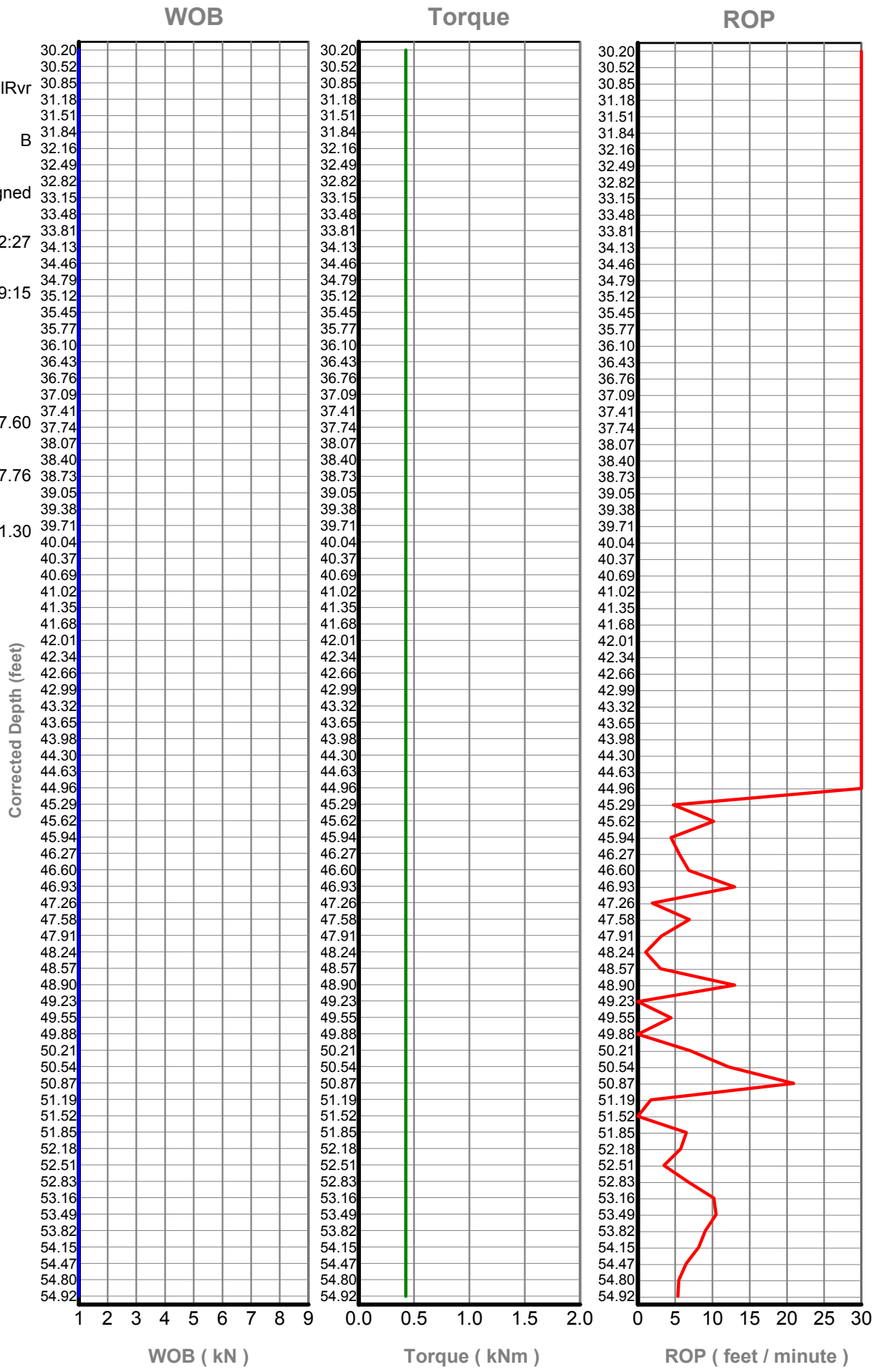
**End Date:**
4/17/2015 8:19:15

**Operator Note:**
'1.3 0.9 b No rock'

**Northing:**
370,887.60

**Easting:**
259,347.76

**Tide (feet):**
1.30



## Hole: B51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:35:00 | 31.82 | 30.22 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 8:35:00 | 32.15 | 30.55 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 8:35:00 | 32.48 | 30.88 | 1,005 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:35:01 | 32.81 | 31.21 | 1,014 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:01 | 33.14 | 31.54 | 1,014 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:01 | 33.46 | 31.86 | 1,011 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 8:35:02 | 33.79 | 32.19 | 1,023 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:35:02 | 34.12 | 32.52 | 1,023 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:35:02 | 34.45 | 32.85 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:03 | 34.78 | 33.18 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:03 | 35.11 | 33.51 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:03 | 35.43 | 33.83 | 1,007 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:35:04 | 35.76 | 34.16 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:04 | 36.09 | 34.49 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:04 | 36.42 | 34.82 | 1,004 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:05 | 36.75 | 35.15 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:05 | 37.07 | 35.47 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:05 | 37.40 | 35.80 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:06 | 37.73 | 36.13 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:35:06 | 38.06 | 36.46 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:07 | 38.39 | 36.79 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:07 | 38.71 | 37.11 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:35:07 | 39.04 | 37.44 | 1,016 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 8:35:08 | 39.37 | 37.77 | 1,016 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 8:35:08 | 39.70 | 38.10 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:08 | 40.03 | 38.43 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 8:35:09 | 40.35 | 38.75 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 8:35:09 | 40.68 | 39.08 | 1,000 | 0.29 | 0.42 | 54.7 |
| 4/17/2015 8:35:09 | 41.01 | 39.41 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:10 | 41.34 | 39.74 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:10 | 41.67 | 40.07 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:35:10 | 41.99 | 40.39 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:11 | 42.32 | 40.72 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:11 | 42.65 | 41.05 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:35:12 | 42.98 | 41.38 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:12 | 43.31 | 41.71 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:35:12 | 43.64 | 42.04 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:13 | 43.96 | 42.36 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:13 | 44.29 | 42.69 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:14 | 44.62 | 43.02 | 1,003 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:14 | 44.95 | 43.35 | 995 | 0.29 | 0.42 | 54.4 |
| 4/17/2015 8:35:14 | 45.28 | 43.68 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:15 | 45.60 | 44.00 | 1,007 | 0.29 | 0.42 | 55.1 |
| 4/17/2015 8:35:15 | 45.93 | 44.33 | 1,004 | 0.29 | 0.42 | 54.9 |
| 4/17/2015 8:35:15 | 46.26 | 44.66 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 8:35:16 | 46.59 | 44.99 | 998 | 0.29 | 0.42 | 54.6 |
| 4/17/2015 8:35:16 | 46.92 | 45.32 | 1,007 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:35:16 | 47.24 | 45.64 | 1,019 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:35:17 | 47.57 | 45.97 | 1,019 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:35:40 | 47.90 | 46.30 | 46 | 0.29 | 0.42 | 2.5 |
| 4/17/2015 8:35:49 | 48.23 | 46.63 | 46 | 0.29 | 0.42 | 2.5 |
| 4/17/2015 8:35:51 | 48.56 | 46.96 | 73 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 8:35:52 | 48.88 | 47.28 | 256 | 0.29 | 0.42 | 14.0 |
| 4/17/2015 8:35:53 | 49.21 | 47.61 | 341 | 0.29 | 0.42 | 18.6 |
| 4/17/2015 8:35:53 | 49.54 | 47.94 | 435 | 0.29 | 0.42 | 23.8 |
| 4/17/2015 8:35:54 | 49.87 | 48.27 | 518 | 0.29 | 0.42 | 28.3 |
| 4/17/2015 8:36:43 | 50.20 | 48.60 | 101 | 0.29 | 0.42 | 5.5 |
| 4/17/2015 8:36:48 | 50.53 | 48.93 | 0 | 0.29 | 0.42 | 0.0 |
| 4/17/2015 8:36:56 | 50.85 | 49.25 | 81 | 0.29 | 0.42 | 4.5 |
| 4/17/2015 8:37:02 | 51.18 | 49.58 | 57 | 0.29 | 0.42 | 3.1 |
| 4/17/2015 8:37:10 | 51.51 | 49.91 | 43 | 0.29 | 0.42 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:37:16 | 51.84 | 50.24 | 50 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 8:37:24 | 52.17 | 50.57 | 50 | 0.29 | 0.42 | 2.7 |
| 4/17/2015 | 8:37:25 | 52.20 | 50.60 | 49 | 0.29 | 0.42 | 2.7 |

## B51 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:32:47

**End Date:**
4/17/2015 8:39:43

**Operator Note:**
'1.6 1.6 b Rock @ 51"

**Northing:**
370,961.55

**Easting:**
259,341.93

**Tide (feet):**
1.60



## Hole: B52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:55:22 | 32.81 | 30.21 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 8:55:22 | 33.14 | 30.54 | 1,024 | 0.29 | 0.42 | 56.0 |
| 4/17/2015 8:55:22 | 33.46 | 30.86 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/17/2015 8:55:23 | 33.79 | 31.19 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/17/2015 8:55:23 | 34.12 | 31.52 | 1,027 | 0.29 | 0.42 | 56.1 |
| 4/17/2015 8:55:23 | 34.45 | 31.85 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/17/2015 8:55:24 | 34.78 | 32.18 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/17/2015 8:55:24 | 35.11 | 32.51 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:24 | 35.43 | 32.83 | 1,021 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:25 | 35.76 | 33.16 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:25 | 36.09 | 33.49 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:25 | 36.42 | 33.82 | 1,016 | 0.29 | 0.42 | 55.6 |
| 4/17/2015 8:55:26 | 36.75 | 34.15 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:26 | 37.07 | 34.47 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:26 | 37.40 | 34.80 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:27 | 37.73 | 35.13 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:27 | 38.06 | 35.46 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:27 | 38.39 | 35.79 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:28 | 38.71 | 36.11 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:28 | 39.04 | 36.44 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:28 | 39.37 | 36.77 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:29 | 39.70 | 37.10 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:30 | 40.03 | 37.43 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:30 | 40.35 | 37.75 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:30 | 40.68 | 38.08 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:31 | 41.01 | 38.41 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/17/2015 8:55:31 | 41.34 | 38.74 | 1,025 | 0.29 | 0.42 | 56.1 |
| 4/17/2015 8:55:31 | 41.67 | 39.07 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:32 | 41.99 | 39.39 | 1,018 | 0.29 | 0.42 | 55.7 |
| 4/17/2015 8:55:32 | 42.32 | 39.72 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:32 | 42.65 | 40.05 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:33 | 42.98 | 40.38 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:33 | 43.31 | 40.71 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:33 | 43.64 | 41.04 | 997 | 0.29 | 0.42 | 54.5 |
| 4/17/2015 8:55:34 | 43.96 | 41.36 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:34 | 44.29 | 41.69 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:34 | 44.62 | 42.02 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:35 | 44.95 | 42.35 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:35 | 45.28 | 42.68 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:35 | 45.60 | 43.00 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/17/2015 8:55:36 | 45.93 | 43.33 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:55:36 | 46.26 | 43.66 | 1,016 | 0.29 | 0.42 | 55.5 |
| 4/17/2015 8:55:36 | 46.59 | 43.99 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:37 | 46.92 | 44.32 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:55:37 | 47.24 | 44.64 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:55:37 | 47.57 | 44.97 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 8:55:38 | 47.90 | 45.30 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:55:38 | 48.23 | 45.63 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/17/2015 8:55:38 | 48.56 | 45.96 | 1,012 | 0.29 | 0.42 | 55.3 |
| 4/17/2015 8:55:39 | 48.88 | 46.28 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:55:39 | 49.21 | 46.61 | 1,009 | 0.29 | 0.42 | 55.2 |
| 4/17/2015 8:56:00 | 49.54 | 46.94 | 35 | 0.29 | 0.42 | 1.9 |
| 4/17/2015 8:56:01 | 49.87 | 47.27 | 172 | 0.29 | 0.42 | 9.4 |
| 4/17/2015 8:56:10 | 50.20 | 47.60 | 26 | 0.29 | 0.42 | 1.4 |
| 4/17/2015 8:56:11 | 50.53 | 47.93 | 74 | 0.29 | 0.42 | 4.1 |
| 4/17/2015 8:56:35 | 50.85 | 48.25 | 30 | 0.29 | 0.42 | 1.7 |
| 4/17/2015 8:56:42 | 51.18 | 48.58 | 74 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 8:56:43 | 51.51 | 48.91 | 206 | 0.29 | 0.42 | 11.3 |
| 4/17/2015 8:56:45 | 51.84 | 49.24 | 252 | 0.29 | 0.42 | 13.8 |
| 4/17/2015 8:56:46 | 52.17 | 49.57 | 236 | 0.29 | 0.42 | 12.9 |
| 4/17/2015 8:56:47 | 52.49 | 49.89 | 247 | 0.29 | 0.42 | 13.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:56:49 | 52.82 | 50.22 | 276 | 0.29 | 0.42 | 15.1 |
| 4/17/2015 | 8:56:50 | 53.15 | 50.55 | 281 | 0.29 | 0.42 | 15.4 |
| 4/17/2015 | 8:57:28 | 53.48 | 50.88 | 41 | 0.29 | 0.42 | 2.3 |
| 4/17/2015 | 8:57:30 | 53.81 | 51.21 | 186 | 0.29 | 0.42 | 10.2 |
| 4/17/2015 | 8:57:32 | 54.13 | 51.53 | 140 | 0.29 | 0.42 | 7.6 |
| 4/17/2015 | 8:57:36 | 54.46 | 51.86 | 96 | 0.29 | 0.42 | 5.2 |
| 4/17/2015 | 8:57:40 | 54.79 | 52.19 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 8:57:44 | 55.12 | 52.52 | 90 | 0.29 | 0.42 | 4.9 |
| 4/17/2015 | 8:57:48 | 55.45 | 52.85 | 79 | 0.29 | 0.42 | 4.3 |
| 4/17/2015 | 8:57:53 | 55.77 | 53.17 | 76 | 0.29 | 0.42 | 4.1 |
| 4/17/2015 | 8:57:58 | 56.10 | 53.50 | 70 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 | 8:58:03 | 56.43 | 53.83 | 77 | 0.29 | 0.42 | 4.2 |
| 4/17/2015 | 8:58:08 | 56.76 | 54.16 | 67 | 0.29 | 0.42 | 3.7 |
| 4/17/2015 | 8:58:12 | 57.09 | 54.49 | 83 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 | 8:58:17 | 57.41 | 54.81 | 80 | 0.29 | 0.42 | 4.4 |

## B52 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:53:41

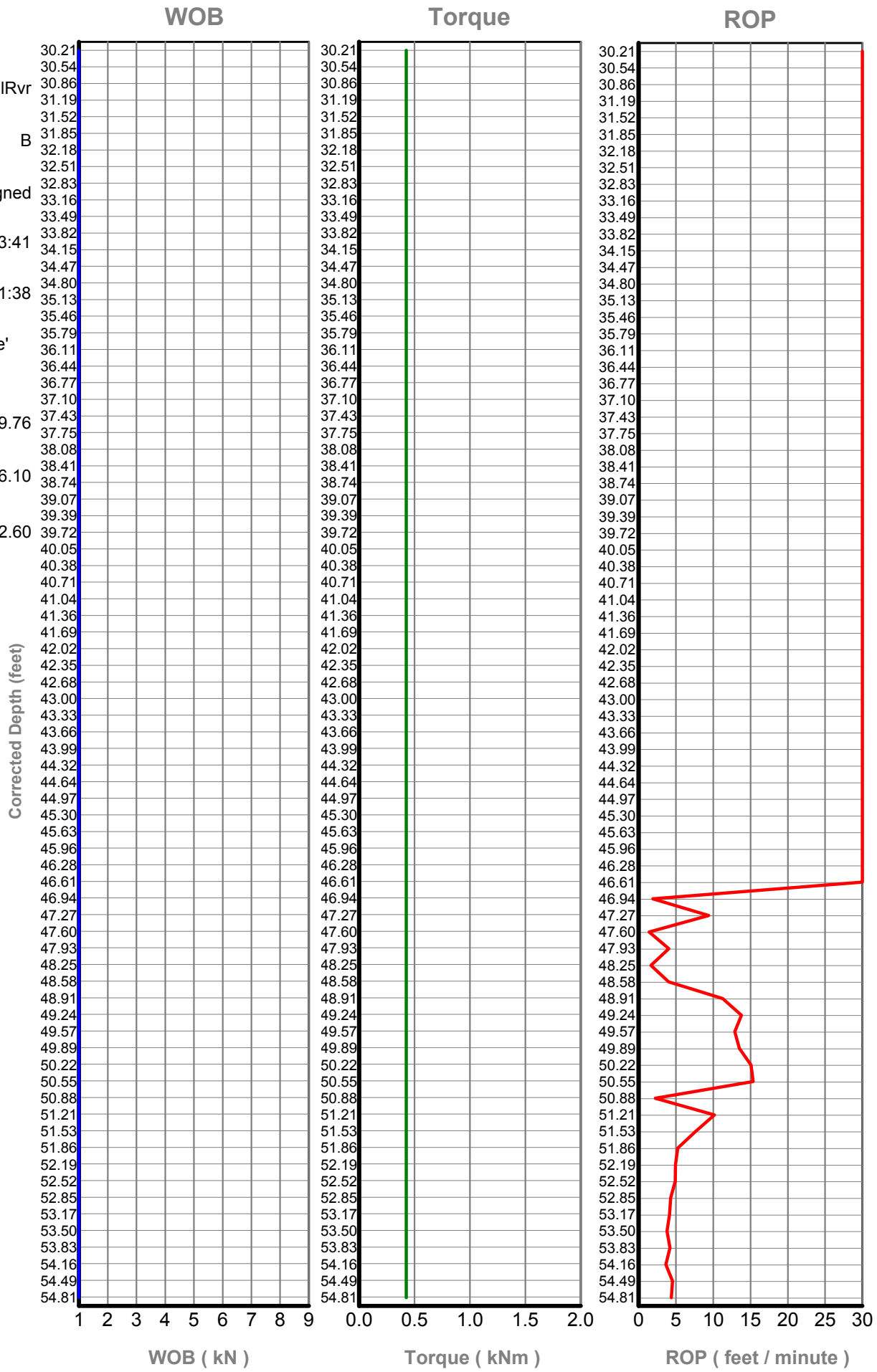
**End Date:**
4/17/2015 9:01:38

**Operator Note:**
'2.6 2.4 b Auto Complete'

**Northing:**
371,039.76

**Easting:**
259,346.10

**Tide (feet):**
2.60



## Hole: B53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:10:38 | 33.14 | 30.24 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 9:10:38 | 33.46 | 30.56 | 1,059 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 9:10:38 | 33.79 | 30.89 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:39 | 34.12 | 31.22 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:39 | 34.45 | 31.55 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:39 | 34.78 | 31.88 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:40 | 35.11 | 32.21 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:40 | 35.43 | 32.53 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:40 | 35.76 | 32.86 | 1,044 | 0.29 | 0.42 | 57.1 |
| 4/17/2015 9:10:41 | 36.09 | 33.19 | 1,038 | 0.29 | 0.42 | 56.7 |
| 4/17/2015 9:10:41 | 36.42 | 33.52 | 1,038 | 0.29 | 0.42 | 56.7 |
| 4/17/2015 9:10:41 | 36.75 | 33.85 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 9:10:42 | 37.07 | 34.17 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:42 | 37.40 | 34.50 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:42 | 37.73 | 34.83 | 1,051 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:43 | 38.06 | 35.16 | 1,047 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 9:10:43 | 38.39 | 35.49 | 1,047 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 9:10:43 | 38.71 | 35.81 | 1,060 | 0.29 | 0.42 | 57.9 |
| 4/17/2015 9:10:44 | 39.04 | 36.14 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:44 | 39.37 | 36.47 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:44 | 39.70 | 36.80 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:45 | 40.03 | 37.13 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:45 | 40.35 | 37.45 | 1,052 | 0.29 | 0.42 | 57.5 |
| 4/17/2015 9:10:45 | 40.68 | 37.78 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 9:10:46 | 41.01 | 38.11 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 9:10:46 | 41.34 | 38.44 | 1,064 | 0.29 | 0.42 | 58.2 |
| 4/17/2015 9:10:46 | 41.67 | 38.77 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 9:10:47 | 41.99 | 39.09 | 1,061 | 0.29 | 0.42 | 58.0 |
| 4/17/2015 9:10:47 | 42.32 | 39.42 | 1,056 | 0.29 | 0.42 | 57.7 |
| 4/17/2015 9:10:47 | 42.65 | 39.75 | 1,052 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:48 | 42.98 | 40.08 | 1,052 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:48 | 43.31 | 40.41 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:49 | 43.64 | 40.74 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:49 | 43.96 | 41.06 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:49 | 44.29 | 41.39 | 1,047 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 9:10:50 | 44.62 | 41.72 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:50 | 44.95 | 42.05 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:50 | 45.28 | 42.38 | 1,053 | 0.29 | 0.42 | 57.6 |
| 4/17/2015 9:10:51 | 45.60 | 42.70 | 1,049 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:51 | 45.93 | 43.03 | 1,049 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:51 | 46.26 | 43.36 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:52 | 46.59 | 43.69 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:52 | 46.92 | 44.02 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:52 | 47.24 | 44.34 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:53 | 47.57 | 44.67 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:53 | 47.90 | 45.00 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:53 | 48.23 | 45.33 | 1,047 | 0.29 | 0.42 | 57.3 |
| 4/17/2015 9:10:54 | 48.56 | 45.66 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 9:10:54 | 48.88 | 45.98 | 1,041 | 0.29 | 0.42 | 56.9 |
| 4/17/2015 9:10:54 | 49.21 | 46.31 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:55 | 49.54 | 46.64 | 1,050 | 0.29 | 0.42 | 57.4 |
| 4/17/2015 9:10:55 | 49.87 | 46.97 | 1,046 | 0.29 | 0.42 | 57.2 |
| 4/17/2015 9:11:08 | 50.20 | 47.30 | 21 | 0.29 | 0.42 | 1.1 |
| 4/17/2015 9:11:10 | 50.53 | 47.63 | 147 | 0.29 | 0.42 | 8.1 |
| 4/17/2015 9:11:15 | 50.85 | 47.95 | 84 | 0.29 | 0.42 | 4.6 |
| 4/17/2015 9:11:18 | 51.18 | 48.28 | 103 | 0.29 | 0.42 | 5.6 |
| 4/17/2015 9:11:33 | 51.51 | 48.61 | 106 | 0.29 | 0.42 | 5.8 |
| 4/17/2015 9:11:33 | 51.84 | 48.94 | 106 | 0.29 | 0.42 | 5.8 |
| 4/17/2015 9:11:48 | 52.17 | 49.27 | 69 | 0.29 | 0.42 | 3.8 |
| 4/17/2015 9:11:55 | 52.49 | 49.59 | 121 | 0.29 | 0.42 | 6.6 |
| 4/17/2015 9:12:13 | 52.82 | 49.92 | 31 | 0.29 | 0.42 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:12:13 | 53.15 | 50.25 | 116 | 0.29 | 0.42 | 6.3 |
| 4/17/2015 | 9:12:15 | 53.48 | 50.58 | 271 | 0.29 | 0.42 | 14.8 |
| 4/17/2015 | 9:12:20 | 53.81 | 50.91 | 72 | 0.29 | 0.42 | 4.0 |
| 4/17/2015 | 9:12:27 | 54.13 | 51.23 | 46 | 0.29 | 0.42 | 2.5 |
| 4/17/2015 | 9:12:36 | 54.46 | 51.56 | 41 | 0.29 | 0.42 | 2.2 |
| 4/17/2015 | 9:12:42 | 54.79 | 51.89 | 58 | 0.29 | 0.42 | 3.2 |
| 4/17/2015 | 9:12:47 | 54.99 | 52.09 | 44 | 0.29 | 0.42 | 2.4 |

## B53 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:08:54

**End Date:**
4/17/2015 9:13:18

**Operator Note:**
'2.9 2.4 b Auto Complete'

**Northing:**
371,107.16

**Easting:**
259,348.25

**Tide (feet):**
2.90



## Hole: B54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:16:29 | 31.50 | 30.20 | 1,180 | 0.54 | 0.36 | 64.5 |
| 4/17/2015 8:16:30 | 31.82 | 30.52 | 1,180 | 0.54 | 0.36 | 64.5 |
| 4/17/2015 8:16:30 | 32.15 | 30.85 | 1,153 | 0.54 | 0.35 | 63.0 |
| 4/17/2015 8:16:30 | 32.48 | 31.18 | 1,153 | 0.54 | 0.35 | 63.0 |
| 4/17/2015 8:16:31 | 32.81 | 31.51 | 1,153 | 0.54 | 0.35 | 63.0 |
| 4/17/2015 8:16:31 | 33.14 | 31.84 | 1,160 | 0.54 | 0.35 | 63.4 |
| 4/17/2015 8:16:32 | 33.46 | 32.16 | 1,160 | 0.54 | 0.35 | 63.4 |
| 4/17/2015 8:16:31 | 33.79 | 32.49 | 1,135 | 0.54 | 0.35 | 62.0 |
| 4/17/2015 8:16:32 | 34.12 | 32.82 | 1,135 | 0.54 | 0.35 | 62.0 |
| 4/17/2015 8:16:33 | 34.45 | 33.15 | 1,135 | 0.54 | 0.35 | 62.0 |
| 4/17/2015 8:16:33 | 34.78 | 33.48 | 1,158 | 0.54 | 0.35 | 63.3 |
| 4/17/2015 8:16:33 | 35.11 | 33.81 | 1,158 | 0.54 | 0.35 | 63.3 |
| 4/17/2015 8:16:33 | 35.43 | 34.13 | 1,158 | 0.54 | 0.36 | 63.3 |
| 4/17/2015 8:16:34 | 35.76 | 34.46 | 1,158 | 0.54 | 0.36 | 63.3 |
| 4/17/2015 8:16:34 | 36.09 | 34.79 | 1,139 | 0.54 | 0.35 | 62.3 |
| 4/17/2015 8:16:34 | 36.42 | 35.12 | 1,183 | 0.54 | 0.36 | 64.7 |
| 4/17/2015 8:16:35 | 36.75 | 35.45 | 1,183 | 0.54 | 0.36 | 64.7 |
| 4/17/2015 8:16:35 | 37.07 | 35.77 | 1,183 | 0.54 | 0.36 | 64.7 |
| 4/17/2015 8:16:35 | 37.40 | 36.10 | 1,183 | 0.54 | 0.36 | 64.7 |
| 4/17/2015 8:16:35 | 37.73 | 36.43 | 1,172 | 0.54 | 0.35 | 64.1 |
| 4/17/2015 8:16:36 | 38.06 | 36.76 | 1,172 | 0.54 | 0.28 | 64.1 |
| 4/17/2015 8:16:36 | 38.39 | 37.09 | 1,172 | 0.54 | 0.28 | 64.1 |
| 4/17/2015 8:16:36 | 38.71 | 37.41 | 1,193 | 0.54 | 0.36 | 65.2 |
| 4/17/2015 8:16:37 | 39.04 | 37.74 | 1,193 | 0.54 | 0.36 | 65.2 |
| 4/17/2015 8:16:37 | 39.37 | 38.07 | 1,178 | 0.54 | 0.38 | 64.4 |
| 4/17/2015 8:16:37 | 39.70 | 38.40 | 1,178 | 0.54 | 0.38 | 64.4 |
| 4/17/2015 8:16:37 | 40.03 | 38.73 | 1,186 | 0.54 | 0.35 | 64.8 |
| 4/17/2015 8:16:38 | 40.35 | 39.05 | 1,186 | 0.54 | 0.36 | 64.8 |
| 4/17/2015 8:16:38 | 40.68 | 39.38 | 1,186 | 0.54 | 0.36 | 64.8 |
| 4/17/2015 8:16:38 | 41.01 | 39.71 | 1,186 | 0.54 | 0.35 | 64.8 |
| 4/17/2015 8:16:39 | 41.34 | 40.04 | 1,186 | 0.54 | 0.35 | 64.8 |
| 4/17/2015 8:16:39 | 41.67 | 40.37 | 1,179 | 0.54 | 0.35 | 64.5 |
| 4/17/2015 8:16:39 | 41.99 | 40.69 | 1,165 | 0.54 | 0.35 | 63.7 |
| 4/17/2015 8:16:40 | 42.32 | 41.02 | 1,165 | 0.54 | 0.35 | 63.7 |
| 4/17/2015 8:16:40 | 42.65 | 41.35 | 1,191 | 0.44 | 0.36 | 65.1 |
| 4/17/2015 8:16:40 | 42.98 | 41.68 | 1,191 | 0.44 | 0.36 | 65.1 |
| 4/17/2015 8:16:40 | 43.31 | 42.01 | 1,187 | 0.54 | 0.35 | 64.9 |
| 4/17/2015 8:16:41 | 43.64 | 42.34 | 1,187 | 0.54 | 0.35 | 64.9 |
| 4/17/2015 8:16:41 | 43.96 | 42.66 | 1,177 | 0.54 | 0.35 | 64.3 |
| 4/17/2015 8:16:41 | 44.29 | 42.99 | 1,177 | 0.56 | 0.41 | 64.3 |
| 4/17/2015 8:17:19 | 44.62 | 43.32 | 26 | 3.54 | 0.46 | 1.4 |
| 4/17/2015 8:17:20 | 44.95 | 43.65 | 220 | 3.12 | 0.46 | 12.0 |
| 4/17/2015 8:17:21 | 45.28 | 43.98 | 311 | 2.88 | 0.45 | 17.0 |
| 4/17/2015 8:17:22 | 45.60 | 44.30 | 368 | 3.87 | 0.47 | 20.1 |
| 4/17/2015 8:17:23 | 45.93 | 44.63 | 332 | 3.38 | 0.49 | 18.1 |
| 4/17/2015 8:17:25 | 46.26 | 44.96 | 183 | 4.45 | 0.45 | 10.0 |
| 4/17/2015 8:17:26 | 46.59 | 45.29 | 219 | 5.17 | 0.43 | 12.0 |
| 4/17/2015 8:17:27 | 46.92 | 45.62 | 307 | 4.95 | 0.47 | 16.8 |
| 4/17/2015 8:17:28 | 47.24 | 45.94 | 353 | 3.50 | 0.46 | 19.3 |
| 4/17/2015 8:17:30 | 47.57 | 46.27 | 303 | 3.03 | 0.46 | 16.6 |
| 4/17/2015 8:17:31 | 47.90 | 46.60 | 246 | 3.39 | 0.46 | 13.4 |
| 4/17/2015 8:17:32 | 48.23 | 46.93 | 263 | 4.11 | 0.42 | 14.4 |
| 4/17/2015 8:17:34 | 48.56 | 47.26 | 285 | 4.50 | 0.47 | 15.6 |
| 4/17/2015 8:17:39 | 48.88 | 47.58 | 63 | 6.45 | 0.47 | 3.4 |
| 4/17/2015 8:17:48 | 49.21 | 47.91 | 90 | 4.30 | 0.43 | 4.9 |
| 4/17/2015 8:17:51 | 49.54 | 48.24 | 102 | 4.17 | 0.42 | 5.6 |
| 4/17/2015 8:17:53 | 49.87 | 48.57 | 121 | 4.74 | 0.44 | 6.6 |
| 4/17/2015 8:17:55 | 50.20 | 48.90 | 176 | 5.04 | 0.42 | 9.6 |
| 4/17/2015 8:18:00 | 50.53 | 49.23 | 50 | 3.98 | 0.44 | 2.7 |
| 4/17/2015 8:18:02 | 50.85 | 49.55 | 113 | 3.88 | 0.42 | 6.2 |
| 4/17/2015 8:18:06 | 51.18 | 49.88 | 119 | 4.44 | 0.40 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:18:08 | 51.51 | 50.21 | 122 | 4.11 | 0.40 | 6.7 |
| 4/17/2015 | 8:18:09 | 51.84 | 50.54 | 176 | 4.70 | 0.39 | 9.6 |
| 4/17/2015 | 8:18:12 | 52.17 | 50.87 | 167 | 3.80 | 0.43 | 9.1 |
| 4/17/2015 | 8:18:16 | 52.49 | 51.19 | 68 | 3.93 | 0.42 | 3.7 |
| 4/17/2015 | 8:18:20 | 52.82 | 51.52 | 89 | 4.02 | 0.41 | 4.9 |
| 4/17/2015 | 8:18:23 | 53.15 | 51.85 | 101 | 4.07 | 0.46 | 5.5 |
| 4/17/2015 | 8:18:29 | 53.48 | 52.18 | 60 | 3.73 | 0.45 | 3.3 |
| 4/17/2015 | 8:18:32 | 53.54 | 52.24 | 41 | 4.91 | 0.16 | 2.3 |

## B54 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:13:37

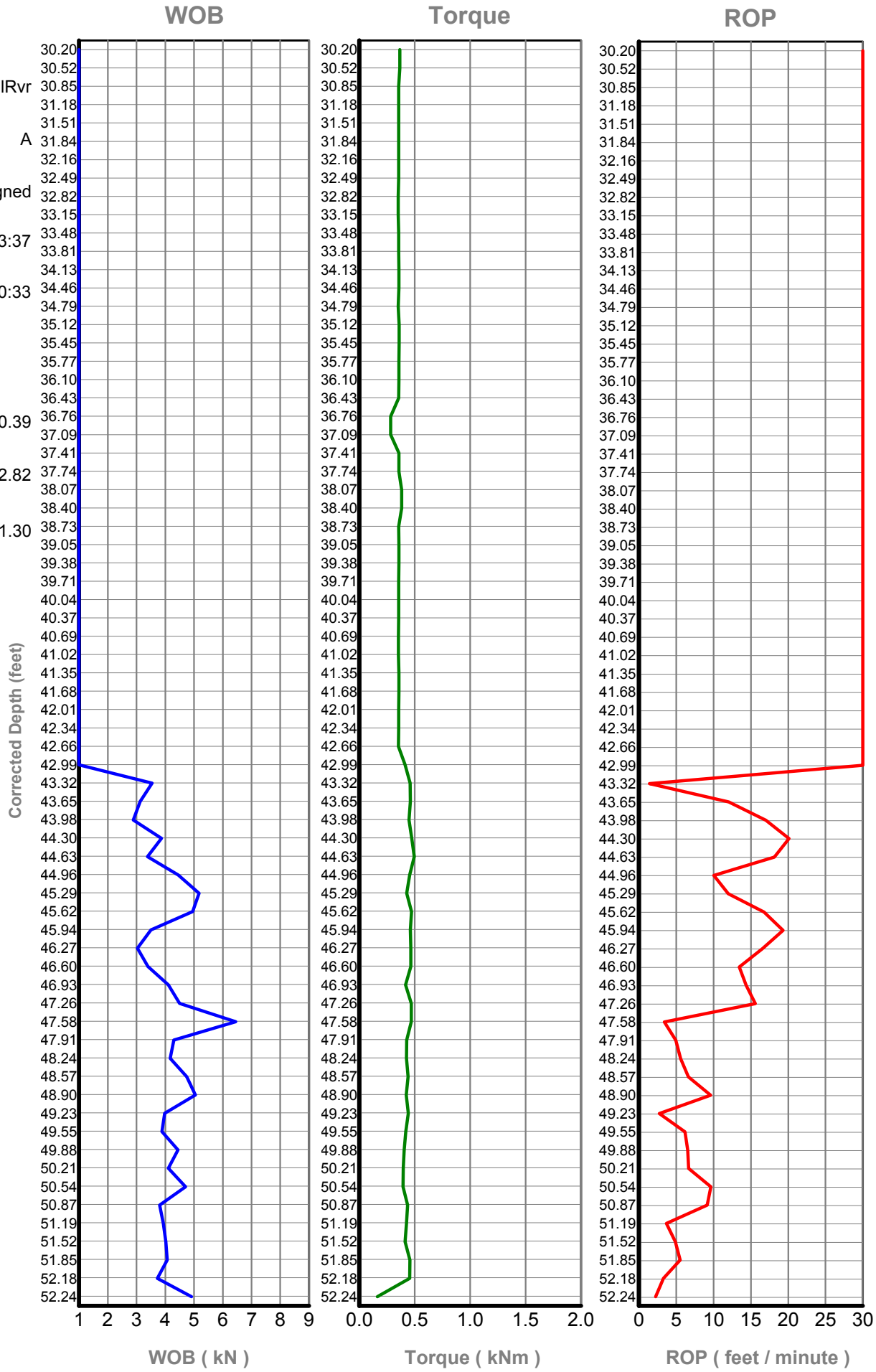
**End Date:**
4/17/2015 8:20:33

**Operator Note:**
'1.3 .8 a Auto Complete'

**Northing:**
370,890.39

**Easting:**
259,272.82

**Tide (feet):**
1.30



## Hole: B55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:36:32 | 31.82 | 30.02 | 1,159 | 1.78 | 0.34 | 63.4 |
| 4/17/2015 8:36:32 | 32.15 | 30.35 | 1,159 | 1.78 | 0.34 | 63.4 |
| 4/17/2015 8:36:32 | 32.48 | 30.68 | 1,188 | 1.77 | 0.35 | 65.0 |
| 4/17/2015 8:36:33 | 32.81 | 31.01 | 1,166 | 1.76 | 0.35 | 63.8 |
| 4/17/2015 8:36:33 | 33.14 | 31.34 | 1,166 | 1.76 | 0.35 | 63.8 |
| 4/17/2015 8:36:33 | 33.46 | 31.66 | 1,166 | 1.77 | 0.35 | 63.8 |
| 4/17/2015 8:36:34 | 33.79 | 31.99 | 1,166 | 1.77 | 0.35 | 63.8 |
| 4/17/2015 8:36:34 | 34.12 | 32.32 | 1,171 | 1.76 | 0.34 | 64.0 |
| 4/17/2015 8:36:34 | 34.45 | 32.65 | 1,171 | 1.76 | 0.35 | 64.0 |
| 4/17/2015 8:36:35 | 34.78 | 32.98 | 1,171 | 1.76 | 0.35 | 64.0 |
| 4/17/2015 8:36:35 | 35.11 | 33.31 | 1,163 | 1.76 | 0.34 | 63.6 |
| 4/17/2015 8:36:35 | 35.43 | 33.63 | 1,163 | 1.76 | 0.34 | 63.6 |
| 4/17/2015 8:36:35 | 35.76 | 33.96 | 1,183 | 1.75 | 0.35 | 64.7 |
| 4/17/2015 8:36:36 | 36.09 | 34.29 | 1,183 | 1.75 | 0.35 | 64.7 |
| 4/17/2015 8:36:36 | 36.42 | 34.62 | 1,174 | 1.75 | 0.35 | 64.2 |
| 4/17/2015 8:36:36 | 36.75 | 34.95 | 1,199 | 1.76 | 0.34 | 65.6 |
| 4/17/2015 8:36:37 | 37.07 | 35.27 | 1,199 | 1.76 | 0.34 | 65.6 |
| 4/17/2015 8:36:37 | 37.40 | 35.60 | 1,197 | 1.76 | 0.34 | 65.5 |
| 4/17/2015 8:36:37 | 37.73 | 35.93 | 1,197 | 1.76 | 0.34 | 65.5 |
| 4/17/2015 8:36:37 | 38.06 | 36.26 | 1,196 | 1.72 | 0.34 | 65.4 |
| 4/17/2015 8:36:38 | 38.39 | 36.59 | 1,196 | 1.72 | 0.34 | 65.4 |
| 4/17/2015 8:36:38 | 38.71 | 36.91 | 1,185 | 1.77 | 0.34 | 64.8 |
| 4/17/2015 8:36:38 | 39.04 | 37.24 | 1,188 | 1.76 | 0.35 | 65.0 |
| 4/17/2015 8:36:39 | 39.37 | 37.57 | 1,188 | 1.76 | 0.35 | 65.0 |
| 4/17/2015 8:36:39 | 39.70 | 37.90 | 1,171 | 1.77 | 0.35 | 64.0 |
| 4/17/2015 8:36:39 | 40.03 | 38.23 | 1,171 | 1.77 | 0.35 | 64.0 |
| 4/17/2015 8:36:40 | 40.35 | 38.55 | 1,185 | 1.76 | 0.35 | 64.8 |
| 4/17/2015 8:36:40 | 40.68 | 38.88 | 1,184 | 1.76 | 0.34 | 64.7 |
| 4/17/2015 8:36:41 | 41.01 | 39.21 | 1,184 | 1.76 | 0.34 | 64.7 |
| 4/17/2015 8:36:41 | 41.34 | 39.54 | 1,155 | 1.76 | 0.35 | 63.2 |
| 4/17/2015 8:36:41 | 41.67 | 39.87 | 1,155 | 1.76 | 0.35 | 63.2 |
| 4/17/2015 8:36:41 | 41.99 | 40.19 | 1,155 | 1.77 | 0.34 | 63.2 |
| 4/17/2015 8:36:42 | 42.32 | 40.52 | 1,155 | 1.77 | 0.34 | 63.2 |
| 4/17/2015 8:36:42 | 42.65 | 40.85 | 1,162 | 1.76 | 0.34 | 63.6 |
| 4/17/2015 8:36:42 | 42.98 | 41.18 | 1,162 | 1.76 | 0.35 | 63.6 |
| 4/17/2015 8:36:43 | 43.31 | 41.51 | 1,162 | 1.76 | 0.35 | 63.6 |
| 4/17/2015 8:36:43 | 43.64 | 41.84 | 1,185 | 1.78 | 0.35 | 64.8 |
| 4/17/2015 8:36:43 | 43.96 | 42.16 | 1,185 | 1.78 | 0.35 | 64.8 |
| 4/17/2015 8:36:43 | 44.29 | 42.49 | 1,174 | 1.76 | 0.35 | 64.2 |
| 4/17/2015 8:36:44 | 44.62 | 42.82 | 1,170 | 1.75 | 0.35 | 64.0 |
| 4/17/2015 8:36:44 | 44.95 | 43.15 | 1,170 | 1.75 | 0.35 | 64.0 |
| 4/17/2015 8:36:44 | 45.28 | 43.48 | 1,189 | 1.76 | 0.35 | 65.0 |
| 4/17/2015 8:36:45 | 45.60 | 43.80 | 1,189 | 1.76 | 0.35 | 65.0 |
| 4/17/2015 8:36:45 | 45.93 | 44.13 | 1,183 | 1.94 | 0.38 | 64.7 |
| 4/17/2015 8:36:45 | 46.26 | 44.46 | 1,131 | 1.90 | 0.08 | 61.8 |
| 4/17/2015 8:36:58 | 46.59 | 44.79 | 29 | 3.72 | 0.45 | 1.6 |
| 4/17/2015 8:37:02 | 46.92 | 45.12 | 17 | 3.50 | 0.45 | 0.9 |
| 4/17/2015 8:37:09 | 47.24 | 45.44 | 0 | 3.35 | 0.46 | 0.0 |
| 4/17/2015 8:37:23 | 47.57 | 45.77 | 0 | 4.47 | 0.45 | 0.0 |
| 4/17/2015 8:37:26 | 47.90 | 46.10 | 110 | 4.11 | 0.42 | 6.0 |
| 4/17/2015 8:37:33 | 48.23 | 46.43 | 60 | 5.84 | 0.44 | 3.3 |
| 4/17/2015 8:37:35 | 48.56 | 46.76 | 158 | 4.89 | 0.49 | 8.7 |
| 4/17/2015 8:37:47 | 48.88 | 47.08 | 30 | 3.93 | 0.51 | 1.7 |
| 4/17/2015 8:37:50 | 49.21 | 47.41 | 97 | 4.89 | 0.46 | 5.3 |
| 4/17/2015 8:38:00 | 49.54 | 47.74 | 32 | 4.76 | 0.41 | 1.8 |
| 4/17/2015 8:38:02 | 49.87 | 48.07 | 188 | 4.81 | 0.40 | 10.3 |
| 4/17/2015 8:38:05 | 50.20 | 48.40 | 166 | 5.44 | 0.40 | 9.1 |
| 4/17/2015 8:38:12 | 50.53 | 48.73 | 83 | 3.48 | 0.40 | 4.5 |
| 4/17/2015 8:38:14 | 50.85 | 49.05 | 179 | 3.11 | 0.40 | 9.8 |
| 4/17/2015 8:38:15 | 51.18 | 49.38 | 223 | 2.67 | 0.40 | 12.2 |
| 4/17/2015 8:38:18 | 51.51 | 49.71 | 147 | 3.20 | 0.39 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:38:21 | 51.84 | 50.04 | 82 | 3.92 | 0.42 | 4.5 |
| 4/17/2015 | 8:38:27 | 52.17 | 50.37 | 52 | 3.64 | 0.40 | 2.8 |
| 4/17/2015 | 8:38:35 | 52.49 | 50.69 | 52 | 3.56 | 0.41 | 2.8 |
| 4/17/2015 | 8:38:41 | 52.82 | 51.02 | 55 | 3.72 | 0.40 | 3.0 |
| 4/17/2015 | 8:38:48 | 53.15 | 51.35 | 52 | 4.07 | 0.42 | 2.8 |

## B55 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:34:50

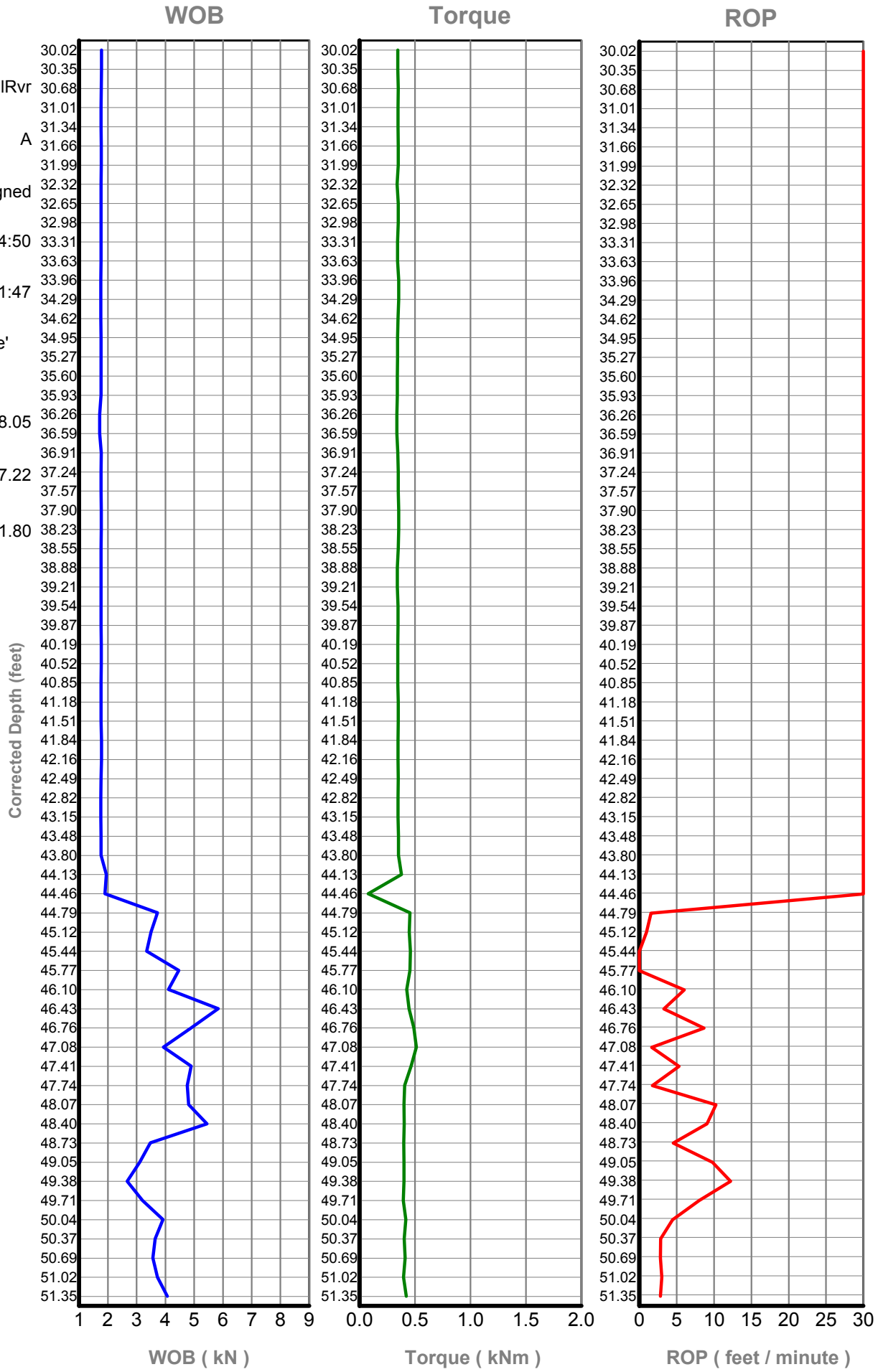
**End Date:**
4/17/2015 8:41:47

**Operator Note:**
'1.8 1.6 a Auto Complete'

**Northing:**
370,968.05

**Easting:**
259,267.22

**Tide (feet):**
1.80



## Hole: B56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 8:58:08 | 32.81 | 30.21 | 1,147 | 1.87 | 0.34 | 62.7 |
| 4/17/2015 8:58:08 | 33.14 | 30.54 | 1,147 | 1.87 | 0.34 | 62.7 |
| 4/17/2015 8:58:08 | 33.46 | 30.86 | 1,147 | 1.87 | 0.34 | 62.7 |
| 4/17/2015 8:58:09 | 33.79 | 31.19 | 1,147 | 1.87 | 0.34 | 62.7 |
| 4/17/2015 8:58:09 | 34.12 | 31.52 | 1,157 | 1.89 | 0.35 | 63.3 |
| 4/17/2015 8:58:09 | 34.45 | 31.85 | 1,139 | 1.82 | 0.34 | 62.3 |
| 4/17/2015 8:58:10 | 34.78 | 32.18 | 1,139 | 1.82 | 0.34 | 62.3 |
| 4/17/2015 8:58:10 | 35.11 | 32.51 | 1,139 | 1.83 | 0.26 | 62.3 |
| 4/17/2015 8:58:11 | 35.43 | 32.83 | 1,139 | 1.83 | 0.26 | 62.3 |
| 4/17/2015 8:58:11 | 35.76 | 33.16 | 1,164 | 1.81 | 0.35 | 63.6 |
| 4/17/2015 8:58:11 | 36.09 | 33.49 | 1,154 | 1.82 | 0.35 | 63.1 |
| 4/17/2015 8:58:12 | 36.42 | 33.82 | 1,154 | 1.82 | 0.35 | 63.1 |
| 4/17/2015 8:58:12 | 36.75 | 34.15 | 1,154 | 1.82 | 0.35 | 63.1 |
| 4/17/2015 8:58:12 | 37.07 | 34.47 | 1,154 | 1.82 | 0.35 | 63.1 |
| 4/17/2015 8:58:12 | 37.40 | 34.80 | 1,166 | 1.80 | 0.34 | 63.8 |
| 4/17/2015 8:58:13 | 37.73 | 35.13 | 1,166 | 1.80 | 0.34 | 63.8 |
| 4/17/2015 8:58:13 | 38.06 | 35.46 | 1,172 | 1.82 | 0.35 | 64.1 |
| 4/17/2015 8:58:13 | 38.39 | 35.79 | 1,201 | 1.81 | 0.34 | 65.7 |
| 4/17/2015 8:58:14 | 38.71 | 36.11 | 1,201 | 1.81 | 0.34 | 65.7 |
| 4/17/2015 8:58:14 | 39.04 | 36.44 | 1,207 | 1.82 | 0.34 | 66.0 |
| 4/17/2015 8:58:14 | 39.37 | 36.77 | 1,207 | 1.82 | 0.34 | 66.0 |
| 4/17/2015 8:58:14 | 39.70 | 37.10 | 1,214 | 1.80 | 0.35 | 66.4 |
| 4/17/2015 8:58:15 | 40.03 | 37.43 | 1,214 | 1.80 | 0.35 | 66.4 |
| 4/17/2015 8:58:15 | 40.35 | 37.75 | 1,224 | 1.76 | 0.34 | 67.0 |
| 4/17/2015 8:58:15 | 40.68 | 38.08 | 1,185 | 1.79 | 0.35 | 64.8 |
| 4/17/2015 8:58:16 | 41.01 | 38.41 | 1,185 | 1.79 | 0.35 | 64.8 |
| 4/17/2015 8:58:16 | 41.34 | 38.74 | 1,185 | 1.77 | 0.34 | 64.8 |
| 4/17/2015 8:58:16 | 41.67 | 39.07 | 1,185 | 1.77 | 0.34 | 64.8 |
| 4/17/2015 8:58:16 | 41.99 | 39.39 | 1,181 | 1.78 | 0.35 | 64.6 |
| 4/17/2015 8:58:17 | 42.32 | 39.72 | 1,181 | 1.76 | 0.34 | 64.6 |
| 4/17/2015 8:58:17 | 42.65 | 40.05 | 1,181 | 1.76 | 0.34 | 64.6 |
| 4/17/2015 8:58:17 | 42.98 | 40.38 | 1,173 | 1.78 | 0.35 | 64.1 |
| 4/17/2015 8:58:18 | 43.31 | 40.71 | 1,173 | 1.78 | 0.35 | 64.1 |
| 4/17/2015 8:58:18 | 43.64 | 41.04 | 1,171 | 1.78 | 0.35 | 64.0 |
| 4/17/2015 8:58:18 | 43.96 | 41.36 | 1,171 | 1.78 | 0.35 | 64.0 |
| 4/17/2015 8:58:18 | 44.29 | 41.69 | 1,158 | 1.76 | 0.34 | 63.3 |
| 4/17/2015 8:58:19 | 44.62 | 42.02 | 1,158 | 1.78 | 0.35 | 63.3 |
| 4/17/2015 8:58:19 | 44.95 | 42.35 | 1,158 | 1.78 | 0.35 | 63.3 |
| 4/17/2015 8:58:19 | 45.28 | 42.68 | 1,184 | 1.78 | 0.36 | 64.8 |
| 4/17/2015 8:58:20 | 45.60 | 43.00 | 1,184 | 1.78 | 0.36 | 64.8 |
| 4/17/2015 8:58:20 | 45.93 | 43.33 | 1,164 | 1.76 | 0.36 | 63.7 |
| 4/17/2015 8:58:20 | 46.26 | 43.66 | 1,109 | 1.77 | 0.36 | 60.7 |
| 4/17/2015 8:58:21 | 46.59 | 43.99 | 1,109 | 1.75 | 0.37 | 60.7 |
| 4/17/2015 8:58:22 | 46.92 | 44.32 | 1,109 | 1.75 | 0.37 | 60.7 |
| 4/17/2015 8:58:22 | 47.24 | 44.64 | 1,047 | 1.77 | 0.37 | 57.2 |
| 4/17/2015 8:58:22 | 47.57 | 44.97 | 991 | 1.76 | 0.37 | 54.2 |
| 4/17/2015 8:58:23 | 47.90 | 45.30 | 922 | 1.76 | 0.37 | 50.4 |
| 4/17/2015 8:58:23 | 48.23 | 45.63 | 854 | 1.76 | 0.37 | 46.7 |
| 4/17/2015 8:58:24 | 48.56 | 45.96 | 826 | 1.75 | 0.37 | 45.2 |
| 4/17/2015 8:58:24 | 48.88 | 46.28 | 809 | 1.76 | 0.36 | 44.2 |
| 4/17/2015 8:58:25 | 49.21 | 46.61 | 809 | 1.76 | 0.36 | 44.2 |
| 4/17/2015 8:58:49 | 49.54 | 46.94 | 0 | 2.53 | 0.47 | 0.0 |
| 4/17/2015 8:58:50 | 49.87 | 47.27 | 0 | 4.64 | 0.49 | 0.0 |
| 4/17/2015 8:58:52 | 50.20 | 47.60 | 158 | 4.78 | 0.49 | 8.6 |
| 4/17/2015 8:58:54 | 50.53 | 47.93 | 186 | 3.62 | 0.46 | 10.2 |
| 4/17/2015 8:58:55 | 50.85 | 48.25 | 258 | 5.17 | 0.49 | 14.1 |
| 4/17/2015 8:58:57 | 51.18 | 48.58 | 185 | 4.95 | 0.52 | 10.1 |
| 4/17/2015 8:59:04 | 51.51 | 48.91 | 0 | 5.65 | 0.49 | 0.0 |
| 4/17/2015 8:59:13 | 51.84 | 49.24 | 11 | 3.86 | 0.14 | 0.6 |
| 4/17/2015 8:59:15 | 52.17 | 49.57 | 161 | 5.24 | 0.50 | 8.8 |
| 4/17/2015 8:59:17 | 52.49 | 49.89 | 150 | 4.03 | 0.51 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 8:59:20 | 52.82 | 50.22 | 128 | 5.44 | 0.50 | 7.0 |
| 4/17/2015 | 8:59:22 | 53.15 | 50.55 | 160 | 4.11 | 0.49 | 8.8 |
| 4/17/2015 | 8:59:24 | 53.48 | 50.88 | 195 | 3.92 | 0.46 | 10.7 |
| 4/17/2015 | 8:59:26 | 53.81 | 51.21 | 151 | 4.28 | 0.55 | 8.3 |
| 4/17/2015 | 8:59:29 | 54.13 | 51.53 | 109 | 4.44 | 0.54 | 6.0 |
| 4/17/2015 | 8:59:32 | 54.46 | 51.86 | 113 | 4.16 | 0.53 | 6.2 |
| 4/17/2015 | 8:59:36 | 54.79 | 52.19 | 101 | 3.96 | 0.54 | 5.5 |
| 4/17/2015 | 8:59:39 | 55.12 | 52.52 | 107 | 3.88 | 0.55 | 5.9 |
| 4/17/2015 | 8:59:42 | 55.45 | 52.85 | 125 | 3.89 | 0.57 | 6.8 |
| 4/17/2015 | 8:59:45 | 55.77 | 53.17 | 143 | 3.75 | 0.53 | 7.8 |
| 4/17/2015 | 8:59:47 | 56.10 | 53.50 | 133 | 3.78 | 0.54 | 7.3 |
| 4/17/2015 | 8:59:50 | 56.43 | 53.83 | 130 | 4.06 | 0.57 | 7.1 |
| 4/17/2015 | 8:59:53 | 56.76 | 54.16 | 116 | 3.80 | 0.53 | 6.3 |
| 4/17/2015 | 8:59:56 | 57.09 | 54.49 | 142 | 4.19 | 0.50 | 7.8 |
| 4/17/2015 | 8:59:58 | 57.41 | 54.81 | 166 | 4.04 | 0.54 | 9.1 |
| 4/17/2015 | 9:00:02 | 57.74 | 55.14 | 47 | 5.25 | 0.20 | 2.6 |
| 4/17/2015 | 9:00:03 | 57.84 | 55.24 | 64 | 5.04 | 0.49 | 3.5 |

## B56 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 8:55:32

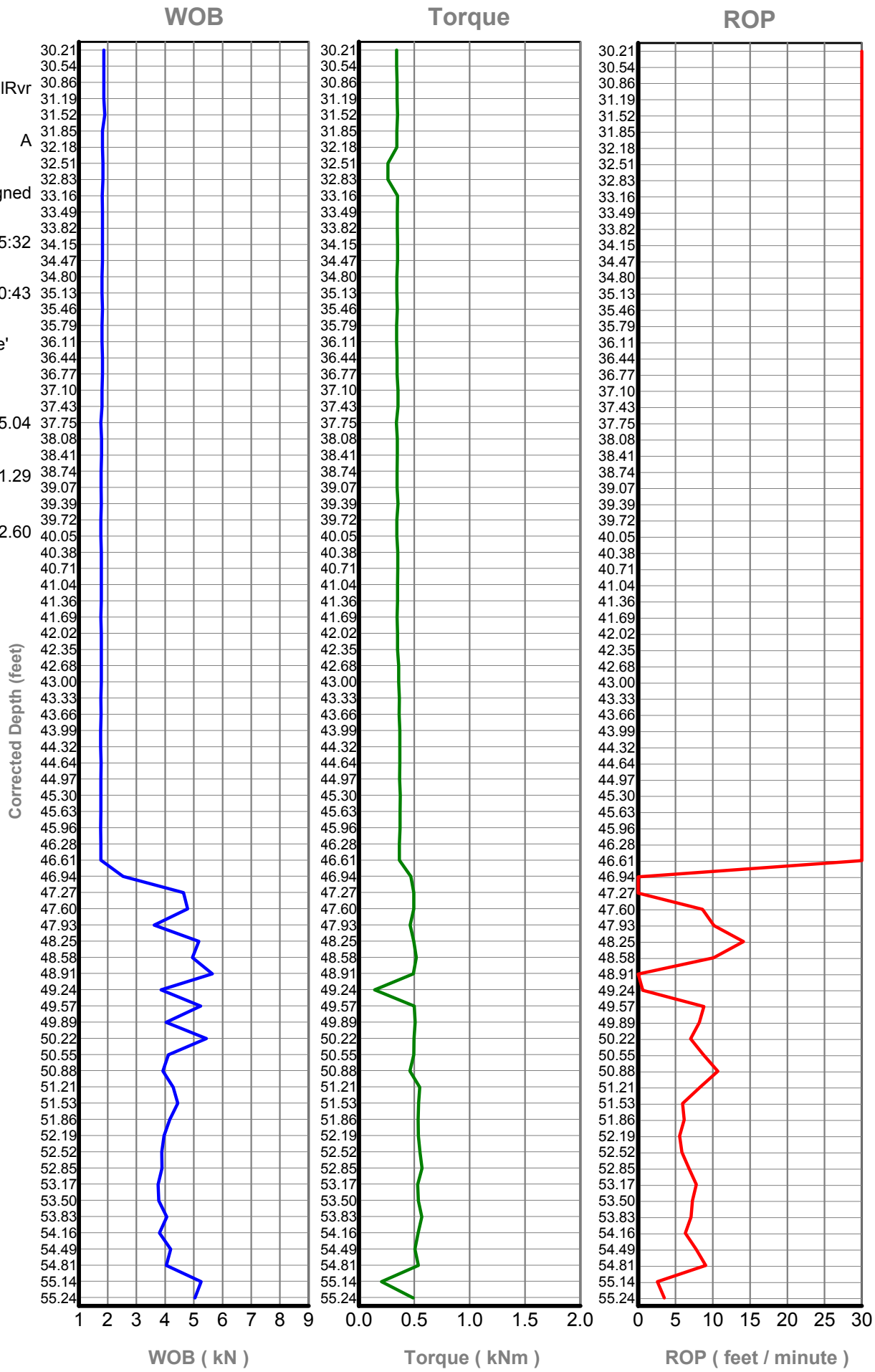
**End Date:**
4/17/2015 9:00:43

**Operator Note:**
'2.6 2.4 a Auto Complete'

**Northing:**
371,045.04

**Easting:**
259,271.29

**Tide (feet):**
2.60



## Hole: B57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 9:12:22 | 33.14 | 30.24 | 1,170 | 1.73 | 0.34 | 64.0 |
| 4/17/2015 9:12:22 | 33.46 | 30.56 | 1,170 | 1.71 | 0.34 | 64.0 |
| 4/17/2015 9:12:23 | 33.79 | 30.89 | 1,170 | 1.71 | 0.34 | 64.0 |
| 4/17/2015 9:12:23 | 34.12 | 31.22 | 1,190 | 1.72 | 0.34 | 65.1 |
| 4/17/2015 9:12:24 | 34.45 | 31.55 | 1,177 | 1.73 | 0.34 | 64.3 |
| 4/17/2015 9:12:24 | 34.78 | 31.88 | 1,177 | 1.73 | 0.34 | 64.3 |
| 4/17/2015 9:12:24 | 35.11 | 32.21 | 1,173 | 1.72 | 0.34 | 64.1 |
| 4/17/2015 9:12:25 | 35.43 | 32.53 | 1,173 | 1.72 | 0.34 | 64.1 |
| 4/17/2015 9:12:25 | 35.76 | 32.86 | 1,170 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 9:12:25 | 36.09 | 33.19 | 1,170 | 1.74 | 0.35 | 64.0 |
| 4/17/2015 9:12:25 | 36.42 | 33.52 | 1,177 | 1.71 | 0.35 | 64.3 |
| 4/17/2015 9:12:26 | 36.75 | 33.85 | 1,176 | 1.71 | 0.34 | 64.3 |
| 4/17/2015 9:12:26 | 37.07 | 34.17 | 1,176 | 1.71 | 0.34 | 64.3 |
| 4/17/2015 9:12:26 | 37.40 | 34.50 | 1,186 | 1.72 | 0.34 | 64.8 |
| 4/17/2015 9:12:27 | 37.73 | 34.83 | 1,186 | 1.72 | 0.34 | 64.8 |
| 4/17/2015 9:12:27 | 38.06 | 35.16 | 1,168 | 1.71 | 0.34 | 63.8 |
| 4/17/2015 9:12:27 | 38.39 | 35.49 | 1,168 | 1.71 | 0.34 | 63.8 |
| 4/17/2015 9:12:27 | 38.71 | 35.81 | 1,168 | 1.71 | 0.35 | 63.8 |
| 4/17/2015 9:12:28 | 39.04 | 36.14 | 1,179 | 1.70 | 0.31 | 64.5 |
| 4/17/2015 9:12:28 | 39.37 | 36.47 | 1,179 | 1.70 | 0.31 | 64.5 |
| 4/17/2015 9:12:28 | 39.70 | 36.80 | 1,178 | 1.72 | 0.34 | 64.4 |
| 4/17/2015 9:12:29 | 40.03 | 37.13 | 1,178 | 1.72 | 0.34 | 64.4 |
| 4/17/2015 9:12:29 | 40.35 | 37.45 | 1,175 | 1.71 | 0.35 | 64.2 |
| 4/17/2015 9:12:29 | 40.68 | 37.78 | 1,143 | 1.70 | 0.34 | 62.5 |
| 4/17/2015 9:12:30 | 41.01 | 38.11 | 1,143 | 1.70 | 0.34 | 62.5 |
| 4/17/2015 9:12:30 | 41.34 | 38.44 | 1,143 | 1.71 | 0.34 | 62.5 |
| 4/17/2015 9:12:30 | 41.67 | 38.77 | 1,143 | 1.71 | 0.34 | 62.5 |
| 4/17/2015 9:12:30 | 41.99 | 39.09 | 1,185 | 1.71 | 0.34 | 64.8 |
| 4/17/2015 9:12:31 | 42.32 | 39.42 | 1,185 | 1.71 | 0.34 | 64.8 |
| 4/17/2015 9:12:31 | 42.65 | 39.75 | 1,166 | 1.71 | 0.33 | 63.8 |
| 4/17/2015 9:12:31 | 42.98 | 40.08 | 1,167 | 1.72 | 0.34 | 63.8 |
| 4/17/2015 9:12:32 | 43.31 | 40.41 | 1,167 | 1.72 | 0.34 | 63.8 |
| 4/17/2015 9:12:32 | 43.64 | 40.74 | 1,164 | 1.70 | 0.34 | 63.6 |
| 4/17/2015 9:12:32 | 43.96 | 41.06 | 1,164 | 1.70 | 0.34 | 63.6 |
| 4/17/2015 9:12:32 | 44.29 | 41.39 | 1,192 | 1.70 | 0.35 | 65.2 |
| 4/17/2015 9:12:33 | 44.62 | 41.72 | 1,192 | 1.70 | 0.35 | 65.2 |
| 4/17/2015 9:12:33 | 44.95 | 42.05 | 1,183 | 1.70 | 0.34 | 64.7 |
| 4/17/2015 9:12:34 | 45.28 | 42.38 | 1,177 | 1.68 | 0.35 | 64.4 |
| 4/17/2015 9:12:34 | 45.60 | 42.70 | 1,177 | 1.68 | 0.35 | 64.4 |
| 4/17/2015 9:12:34 | 45.93 | 43.03 | 1,163 | 1.71 | 0.34 | 63.6 |
| 4/17/2015 9:12:35 | 46.26 | 43.36 | 1,163 | 1.71 | 0.34 | 63.6 |
| 4/17/2015 9:12:35 | 46.59 | 43.69 | 1,185 | 1.69 | 0.35 | 64.8 |
| 4/17/2015 9:12:35 | 46.92 | 44.02 | 1,172 | 1.69 | 0.34 | 64.1 |
| 4/17/2015 9:12:36 | 47.24 | 44.34 | 1,172 | 1.69 | 0.34 | 64.1 |
| 4/17/2015 9:12:36 | 47.57 | 44.67 | 1,169 | 1.70 | 0.34 | 63.9 |
| 4/17/2015 9:12:36 | 47.90 | 45.00 | 1,169 | 1.70 | 0.34 | 63.9 |
| 4/17/2015 9:12:36 | 48.23 | 45.33 | 1,169 | 1.70 | 0.34 | 63.9 |
| 4/17/2015 9:12:37 | 48.56 | 45.66 | 1,178 | 2.82 | 0.40 | 64.4 |
| 4/17/2015 9:12:37 | 48.88 | 45.98 | 1,061 | 4.34 | 0.16 | 58.0 |
| 4/17/2015 9:12:52 | 49.21 | 46.31 | 89 | 3.58 | 0.53 | 4.8 |
| 4/17/2015 9:12:54 | 49.54 | 46.64 | 216 | 3.53 | 0.45 | 11.8 |
| 4/17/2015 9:12:54 | 49.87 | 46.97 | 296 | 3.14 | 0.46 | 16.2 |
| 4/17/2015 9:12:56 | 50.20 | 47.30 | 353 | 4.20 | 0.50 | 19.3 |
| 4/17/2015 9:12:57 | 50.53 | 47.63 | 303 | 3.62 | 0.44 | 16.6 |
| 4/17/2015 9:12:58 | 50.85 | 47.95 | 316 | 3.28 | 0.46 | 17.3 |
| 4/17/2015 9:12:58 | 51.18 | 48.28 | 365 | 3.26 | 0.43 | 20.0 |
| 4/17/2015 9:12:59 | 51.51 | 48.61 | 470 | 3.02 | 0.40 | 25.7 |
| 4/17/2015 9:13:00 | 51.84 | 48.94 | 485 | 3.14 | 0.44 | 26.5 |
| 4/17/2015 9:13:01 | 52.17 | 49.27 | 463 | 3.12 | 0.47 | 25.3 |
| 4/17/2015 9:13:02 | 52.49 | 49.59 | 362 | 3.73 | 0.43 | 19.8 |
| 4/17/2015 9:13:03 | 52.82 | 49.92 | 333 | 3.35 | 0.46 | 18.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 9:13:05 | 53.15 | 50.25 | 261 | 4.22 | 0.46 | 14.3 |
| 4/17/2015 | 9:13:08 | 53.48 | 50.58 | 147 | 3.74 | 0.48 | 8.0 |
| 4/17/2015 | 9:13:14 | 53.81 | 50.91 | 49 | 3.70 | 0.50 | 2.7 |
| 4/17/2015 | 9:13:19 | 54.13 | 51.23 | 69 | 3.98 | 0.40 | 3.8 |
| 4/17/2015 | 9:13:21 | 54.46 | 51.56 | 202 | 4.09 | 0.45 | 11.0 |
| 4/17/2015 | 9:13:23 | 54.79 | 51.89 | 167 | 4.36 | 0.41 | 9.1 |
| 4/17/2015 | 9:13:25 | 55.12 | 52.22 | 168 | 4.41 | 0.40 | 9.2 |
| 4/17/2015 | 9:13:28 | 55.45 | 52.55 | 162 | 3.84 | 0.44 | 8.8 |
| 4/17/2015 | 9:13:29 | 55.77 | 52.87 | 182 | 4.32 | 0.40 | 10.0 |
| 4/17/2015 | 9:13:31 | 56.10 | 53.20 | 198 | 3.83 | 0.40 | 10.8 |
| 4/17/2015 | 9:13:33 | 56.43 | 53.53 | 190 | 3.77 | 0.43 | 10.4 |
| 4/17/2015 | 9:13:36 | 56.76 | 53.86 | 147 | 3.90 | 0.39 | 8.0 |
| 4/17/2015 | 9:13:38 | 57.09 | 54.19 | 161 | 4.09 | 0.44 | 8.8 |
| 4/17/2015 | 9:13:41 | 57.40 | 54.50 | 135 | 3.71 | 0.19 | 7.4 |

## B57 - Summary

**Pattern Number:**
AreaB_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 9:10:58

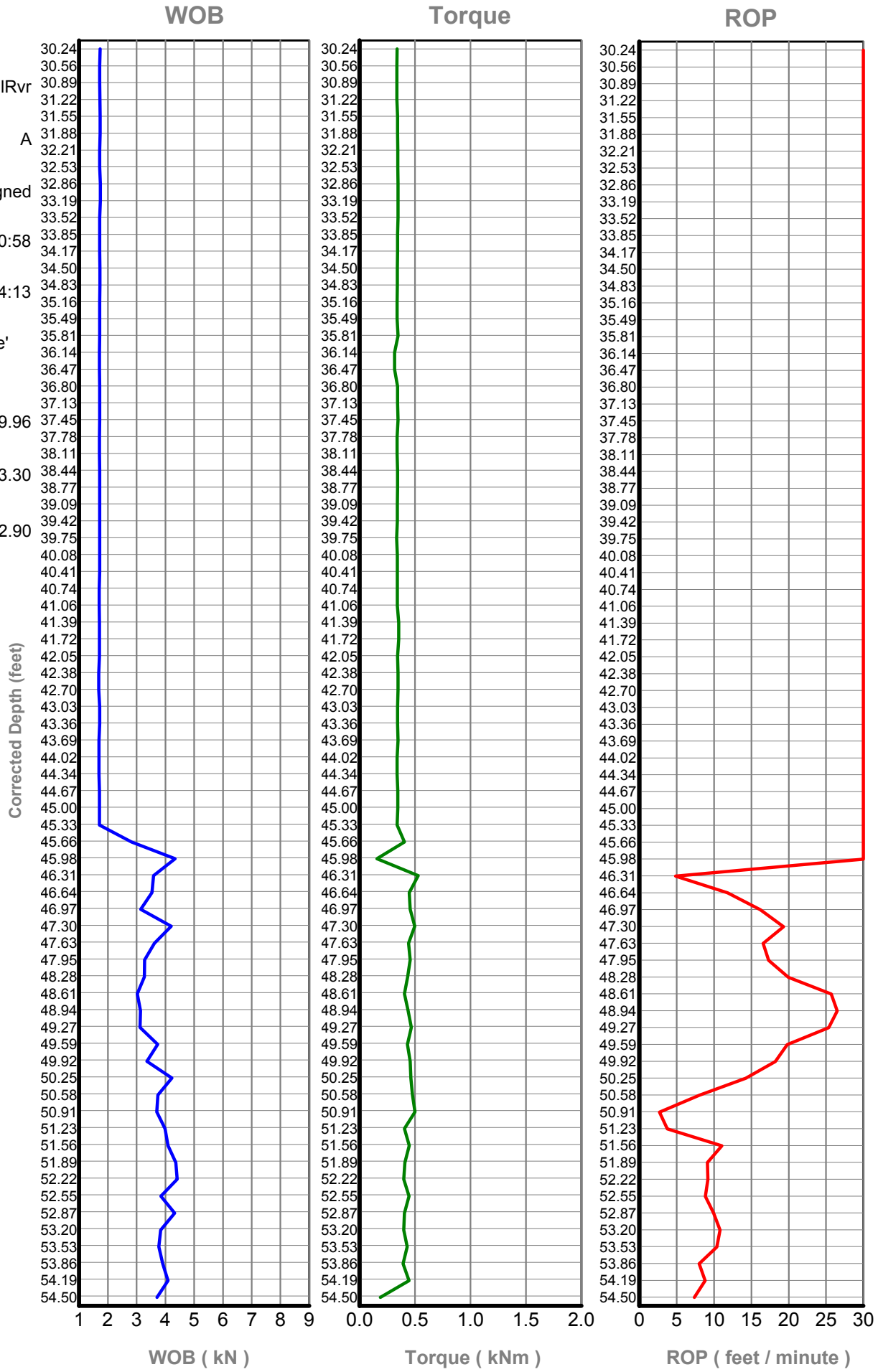
**End Date:**
4/17/2015 9:14:13

**Operator Note:**
'2.9 2.4 a Auto Complete'

**Northing:**
371,109.96

**Easting:**
259,273.30

**Tide (feet):**
2.90



## Hole: B6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:23:46 | 30.18 | 30.18 | 1,045 | 0.29 | 0.42 | 57.1 |
| 4/16/2015 18:23:46 | 30.51 | 30.51 | 1,055 | 0.29 | 0.42 | 57.7 |
| 4/16/2015 18:23:46 | 30.84 | 30.84 | 1,045 | 0.29 | 0.42 | 57.2 |
| 4/16/2015 18:23:47 | 31.17 | 31.17 | 1,045 | 0.29 | 0.42 | 57.2 |
| 4/16/2015 18:23:47 | 31.50 | 31.50 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/16/2015 18:23:47 | 31.82 | 31.82 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/16/2015 18:23:48 | 32.15 | 32.15 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/16/2015 18:23:48 | 32.48 | 32.48 | 1,030 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 18:23:48 | 32.81 | 32.81 | 1,038 | 0.29 | 0.42 | 56.8 |
| 4/16/2015 18:23:49 | 33.14 | 33.14 | 1,038 | 0.29 | 0.42 | 56.8 |
| 4/16/2015 18:23:49 | 33.46 | 33.46 | 1,029 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 18:23:50 | 33.79 | 33.79 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:50 | 34.12 | 34.12 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:50 | 34.45 | 34.45 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/16/2015 18:23:51 | 34.78 | 34.78 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/16/2015 18:23:51 | 35.11 | 35.11 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/16/2015 18:23:51 | 35.43 | 35.43 | 1,017 | 0.29 | 0.42 | 55.6 |
| 4/16/2015 18:23:52 | 35.76 | 35.76 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/16/2015 18:23:52 | 36.09 | 36.09 | 1,015 | 0.29 | 0.42 | 55.5 |
| 4/16/2015 18:23:52 | 36.42 | 36.42 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/16/2015 18:23:53 | 36.75 | 36.75 | 1,029 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 18:23:53 | 37.07 | 37.07 | 1,029 | 0.29 | 0.42 | 56.3 |
| 4/16/2015 18:23:53 | 37.40 | 37.40 | 1,032 | 0.29 | 0.42 | 56.4 |
| 4/16/2015 18:23:54 | 37.73 | 37.73 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/16/2015 18:23:54 | 38.06 | 38.06 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/16/2015 18:23:55 | 38.39 | 38.39 | 1,022 | 0.29 | 0.42 | 55.9 |
| 4/16/2015 18:23:55 | 38.71 | 38.71 | 1,012 | 0.29 | 0.42 | 55.4 |
| 4/16/2015 18:23:55 | 39.04 | 39.04 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/16/2015 18:23:56 | 39.37 | 39.37 | 1,013 | 0.29 | 0.42 | 55.4 |
| 4/16/2015 18:23:56 | 39.70 | 39.70 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:56 | 40.03 | 40.03 | 1,027 | 0.29 | 0.42 | 56.2 |
| 4/16/2015 18:23:57 | 40.35 | 40.35 | 1,027 | 0.29 | 0.42 | 56.2 |
| 4/16/2015 18:23:57 | 40.68 | 40.68 | 1,027 | 0.29 | 0.42 | 56.1 |
| 4/16/2015 18:23:57 | 41.01 | 41.01 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:58 | 41.34 | 41.34 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:58 | 41.67 | 41.67 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:23:58 | 41.99 | 41.99 | 1,014 | 0.29 | 0.42 | 55.5 |
| 4/16/2015 18:23:59 | 42.32 | 42.32 | 1,014 | 0.29 | 0.42 | 55.5 |
| 4/16/2015 18:23:59 | 42.65 | 42.65 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/16/2015 18:23:59 | 42.98 | 42.98 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/16/2015 18:24:00 | 43.31 | 43.31 | 1,006 | 0.29 | 0.42 | 55.0 |
| 4/16/2015 18:24:00 | 43.64 | 43.64 | 1,010 | 0.29 | 0.42 | 55.2 |
| 4/16/2015 18:24:00 | 43.96 | 43.96 | 992 | 0.29 | 0.42 | 54.2 |
| 4/16/2015 18:24:01 | 44.29 | 44.29 | 992 | 0.29 | 0.42 | 54.2 |
| 4/16/2015 18:24:01 | 44.62 | 44.62 | 1,021 | 0.29 | 0.42 | 55.8 |
| 4/16/2015 18:24:13 | 44.95 | 44.95 | 0 | 0.29 | 0.42 | 0.0 |
| 4/16/2015 18:24:20 | 45.28 | 45.28 | 29 | 0.29 | 0.42 | 1.6 |
| 4/16/2015 18:24:26 | 45.60 | 45.60 | 87 | 0.29 | 0.42 | 4.8 |
| 4/16/2015 18:24:30 | 45.93 | 45.93 | 93 | 0.29 | 0.42 | 5.1 |
| 4/16/2015 18:24:33 | 46.26 | 46.26 | 102 | 0.29 | 0.42 | 5.6 |
| 4/16/2015 18:24:36 | 46.59 | 46.59 | 119 | 0.29 | 0.42 | 6.5 |
| 4/16/2015 18:24:40 | 46.92 | 46.92 | 92 | 0.29 | 0.42 | 5.0 |
| 4/16/2015 18:24:44 | 47.24 | 47.24 | 96 | 0.29 | 0.42 | 5.2 |
| 4/16/2015 18:24:55 | 47.57 | 47.57 | 81 | 0.29 | 0.42 | 4.5 |
| 4/16/2015 18:24:59 | 47.90 | 47.90 | 96 | 0.29 | 0.42 | 5.3 |
| 4/16/2015 18:25:04 | 48.23 | 48.23 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 18:25:08 | 48.56 | 48.56 | 81 | 0.29 | 0.42 | 4.4 |
| 4/16/2015 18:25:13 | 48.88 | 48.88 | 70 | 0.29 | 0.42 | 3.8 |
| 4/16/2015 18:25:18 | 49.21 | 49.21 | 77 | 0.29 | 0.42 | 4.2 |
| 4/16/2015 18:25:22 | 49.54 | 49.54 | 85 | 0.29 | 0.42 | 4.6 |
| 4/16/2015 18:25:26 | 49.87 | 49.87 | 86 | 0.29 | 0.42 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 18:25:30 | 50.20 | 50.20 | 86 | 0.29 | 0.42 | 4.7 |
| 4/16/2015 | 18:25:35 | 50.53 | 50.53 | 61 | 0.29 | 0.42 | 3.4 |
| 4/16/2015 | 18:25:41 | 50.85 | 50.85 | 73 | 0.29 | 0.42 | 4.0 |
| 4/16/2015 | 18:25:45 | 51.18 | 51.18 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 18:25:50 | 51.51 | 51.51 | 79 | 0.29 | 0.42 | 4.3 |
| 4/16/2015 | 18:25:56 | 51.84 | 51.84 | 64 | 0.29 | 0.42 | 3.5 |
| 4/16/2015 | 18:26:01 | 52.17 | 52.17 | 76 | 0.29 | 0.42 | 4.1 |
| 4/16/2015 | 18:26:07 | 52.49 | 52.49 | 61 | 0.29 | 0.42 | 3.3 |
| 4/16/2015 | 18:26:14 | 52.81 | 52.81 | 47 | 0.29 | 0.42 | 2.5 |

## B6 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:21:21

**End Date:**
4/16/2015 18:27:59

**Operator Note:**
'0 0.2 b Hit rock @ 52"

**Northing:**
371,098.43

**Easting:**
259,792.87

**Tide (feet):**
0.00



## Hole: B7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 18:25:52 | 30.18 | 30.18 | 717 | 2.26 | 0.13 | 39.2 |
| 4/16/2015 18:25:52 | 30.51 | 30.51 | 718 | 2.27 | 0.13 | 39.3 |
| 4/16/2015 18:25:53 | 30.84 | 30.84 | 717 | 2.27 | 0.13 | 39.2 |
| 4/16/2015 18:25:53 | 31.17 | 31.17 | 717 | 2.27 | 0.13 | 39.2 |
| 4/16/2015 18:25:54 | 31.50 | 31.50 | 721 | 2.26 | 0.13 | 39.4 |
| 4/16/2015 18:25:54 | 31.82 | 31.82 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:25:55 | 32.15 | 32.15 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:25:56 | 32.48 | 32.48 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:25:56 | 32.81 | 32.81 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 18:25:57 | 33.14 | 33.14 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 18:25:57 | 33.46 | 33.46 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:25:57 | 33.79 | 33.79 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:25:58 | 34.12 | 34.12 | 710 | 2.27 | 0.13 | 38.8 |
| 4/16/2015 18:25:58 | 34.45 | 34.45 | 717 | 2.26 | 0.13 | 39.2 |
| 4/16/2015 18:25:59 | 34.78 | 34.78 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:25:59 | 35.11 | 35.11 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:26:00 | 35.43 | 35.43 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:00 | 35.76 | 35.76 | 717 | 2.25 | 0.13 | 39.2 |
| 4/16/2015 18:26:01 | 36.09 | 36.09 | 711 | 2.27 | 0.13 | 38.9 |
| 4/16/2015 18:26:01 | 36.42 | 36.42 | 711 | 2.26 | 0.13 | 38.9 |
| 4/16/2015 18:26:02 | 36.75 | 36.75 | 707 | 2.25 | 0.13 | 38.6 |
| 4/16/2015 18:26:02 | 37.07 | 37.07 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:03 | 37.40 | 37.40 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 18:26:03 | 37.73 | 37.73 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 18:26:04 | 38.06 | 38.06 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:04 | 38.39 | 38.39 | 717 | 2.27 | 0.13 | 39.2 |
| 4/16/2015 18:26:05 | 38.71 | 38.71 | 714 | 2.25 | 0.13 | 39.0 |
| 4/16/2015 18:26:06 | 39.04 | 39.04 | 711 | 2.25 | 0.13 | 38.9 |
| 4/16/2015 18:26:06 | 39.37 | 39.37 | 710 | 2.27 | 0.13 | 38.8 |
| 4/16/2015 18:26:07 | 39.70 | 39.70 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:07 | 40.03 | 40.03 | 711 | 2.26 | 0.13 | 38.9 |
| 4/16/2015 18:26:08 | 40.35 | 40.35 | 711 | 2.27 | 0.13 | 38.9 |
| 4/16/2015 18:26:08 | 40.68 | 40.68 | 714 | 2.25 | 0.14 | 39.0 |
| 4/16/2015 18:26:09 | 41.01 | 41.01 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:09 | 41.34 | 41.34 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:10 | 41.67 | 41.67 | 714 | 2.26 | 0.13 | 39.0 |
| 4/16/2015 18:26:10 | 41.99 | 41.99 | 710 | 2.26 | 0.13 | 38.8 |
| 4/16/2015 18:26:10 | 42.32 | 42.32 | 710 | 2.26 | 0.13 | 38.8 |
| 4/16/2015 18:26:11 | 42.65 | 42.65 | 714 | 2.26 | 0.13 | 39.1 |
| 4/16/2015 18:26:11 | 42.98 | 42.98 | 711 | 2.27 | 0.13 | 38.9 |
| 4/16/2015 18:26:12 | 43.31 | 43.31 | 711 | 2.27 | 0.13 | 38.9 |
| 4/16/2015 18:26:12 | 43.64 | 43.64 | 715 | 2.26 | 0.13 | 39.1 |
| 4/16/2015 18:26:13 | 43.96 | 43.96 | 714 | 2.27 | 0.13 | 39.0 |
| 4/16/2015 18:26:29 | 44.29 | 44.29 | 0 | 2.42 | 1.05 | 0.0 |
| 4/16/2015 18:26:32 | 44.62 | 44.62 | 115 | 2.48 | 1.26 | 6.3 |
| 4/16/2015 18:26:33 | 44.95 | 44.95 | 236 | 2.36 | 1.15 | 12.9 |
| 4/16/2015 18:26:33 | 45.28 | 45.28 | 315 | 2.37 | 1.16 | 17.2 |
| 4/16/2015 18:26:34 | 45.60 | 45.60 | 370 | 2.40 | 1.18 | 20.2 |
| 4/16/2015 18:26:35 | 45.93 | 45.93 | 494 | 2.36 | 1.16 | 27.0 |
| 4/16/2015 18:26:35 | 46.26 | 46.26 | 512 | 2.38 | 1.07 | 28.0 |
| 4/16/2015 18:26:37 | 46.59 | 46.59 | 392 | 2.50 | 1.39 | 21.4 |
| 4/16/2015 18:26:40 | 46.92 | 46.92 | 125 | 2.50 | 1.34 | 6.8 |
| 4/16/2015 18:26:43 | 47.24 | 47.24 | 119 | 2.48 | 1.29 | 6.5 |
| 4/16/2015 18:26:45 | 47.57 | 47.57 | 162 | 2.44 | 1.18 | 8.9 |
| 4/16/2015 18:26:46 | 47.90 | 47.90 | 214 | 2.49 | 1.25 | 11.7 |
| 4/16/2015 18:26:50 | 48.23 | 48.23 | 133 | 2.50 | 1.24 | 7.3 |
| 4/16/2015 18:26:53 | 48.56 | 48.56 | 95 | 2.52 | 1.31 | 5.2 |
| 4/16/2015 18:26:58 | 48.88 | 48.88 | 75 | 2.52 | 1.40 | 4.1 |
| 4/16/2015 18:27:02 | 49.21 | 49.21 | 102 | 2.51 | 1.37 | 5.6 |
| 4/16/2015 18:27:05 | 49.54 | 49.54 | 116 | 2.52 | 1.41 | 6.3 |
| 4/16/2015 18:27:09 | 49.87 | 49.87 | 104 | 2.50 | 1.48 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 18:28:19 | 50.20 | 50.20 | 20 | 2.51 | 1.20 | 1.1 |
| 4/16/2015 | 18:28:24 | 50.53 | 50.53 | 75 | 2.49 | 1.28 | 4.1 |
| 4/16/2015 | 18:28:29 | 50.85 | 50.85 | 81 | 2.48 | 1.26 | 4.4 |
| 4/16/2015 | 18:28:33 | 51.18 | 51.18 | 81 | 2.48 | 1.34 | 4.4 |
| 4/16/2015 | 18:28:37 | 51.51 | 51.51 | 83 | 2.48 | 1.33 | 4.6 |
| 4/16/2015 | 18:28:42 | 51.84 | 51.84 | 85 | 2.50 | 1.25 | 4.7 |
| 4/16/2015 | 18:28:46 | 52.10 | 52.10 | 64 | 2.52 | 1.51 | 3.5 |

## B7 - Summary

**Pattern Number:**
AreaB_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/16/2015 18:24:11

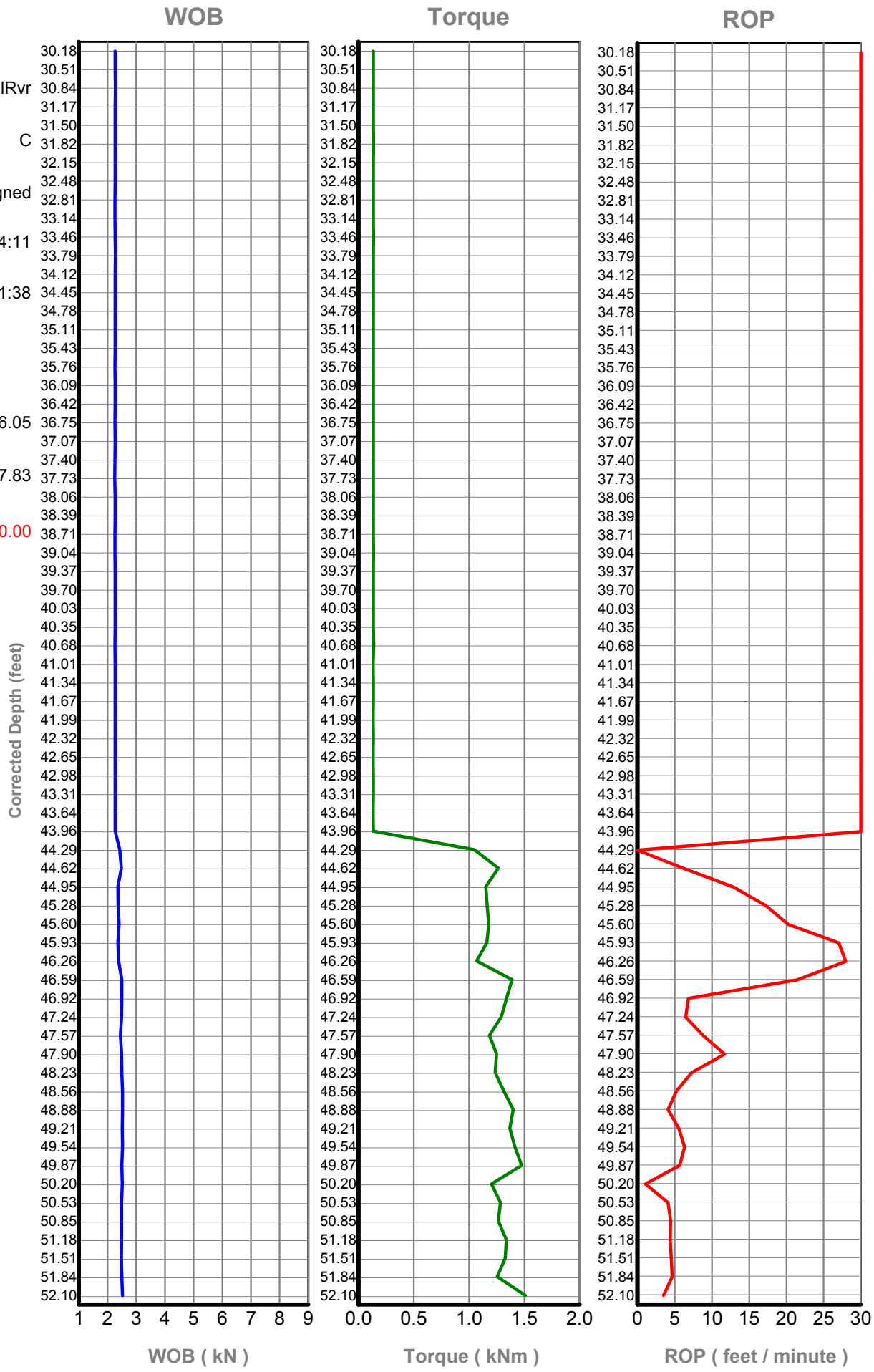
**End Date:**
4/16/2015 18:31:38

**Operator Note:**
'0 .2 c Auto Complete'

**Northing:**
371,096.05

**Easting:**
259,867.83

**Tide (feet):**
0.00



## Hole: B8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 12:45:19 | 35.11 | 30.01 | 1,095 | 0.48 | 0.33 | 59.9 |
| 4/15/2015 12:45:19 | 35.43 | 30.33 | 1,102 | 0.48 | 0.33 | 60.3 |
| 4/15/2015 12:45:20 | 35.76 | 30.66 | 1,102 | 0.48 | 0.33 | 60.3 |
| 4/15/2015 12:45:20 | 36.09 | 30.99 | 1,093 | 0.48 | 0.34 | 59.8 |
| 4/15/2015 12:45:20 | 36.42 | 31.32 | 1,092 | 0.48 | 0.33 | 59.7 |
| 4/15/2015 12:45:21 | 36.75 | 31.65 | 1,092 | 0.48 | 0.33 | 59.7 |
| 4/15/2015 12:45:21 | 37.07 | 31.97 | 1,074 | 0.48 | 0.34 | 58.7 |
| 4/15/2015 12:45:21 | 37.40 | 32.30 | 1,086 | 0.48 | 0.33 | 59.4 |
| 4/15/2015 12:45:22 | 37.73 | 32.63 | 1,086 | 0.48 | 0.33 | 59.4 |
| 4/15/2015 12:45:22 | 38.06 | 32.96 | 1,059 | 0.48 | 0.35 | 57.9 |
| 4/15/2015 12:45:22 | 38.39 | 33.29 | 1,048 | 0.48 | 0.35 | 57.3 |
| 4/15/2015 12:45:23 | 38.71 | 33.61 | 1,048 | 0.48 | 0.35 | 57.3 |
| 4/15/2015 12:45:23 | 39.04 | 33.94 | 1,009 | 0.48 | 0.35 | 55.2 |
| 4/15/2015 12:45:23 | 39.37 | 34.27 | 966 | 0.48 | 0.37 | 52.8 |
| 4/15/2015 12:45:24 | 39.70 | 34.60 | 881 | 0.48 | 0.38 | 48.2 |
| 4/15/2015 12:45:24 | 40.03 | 34.93 | 781 | 0.48 | 0.35 | 42.7 |
| 4/15/2015 12:45:25 | 40.35 | 35.25 | 709 | 0.48 | 0.33 | 38.8 |
| 4/15/2015 12:45:25 | 40.68 | 35.58 | 712 | 0.53 | 0.34 | 38.9 |
| 4/15/2015 12:45:26 | 41.01 | 35.91 | 718 | 0.48 | 0.34 | 39.2 |
| 4/15/2015 12:45:26 | 41.34 | 36.24 | 770 | 0.48 | 0.34 | 42.1 |
| 4/15/2015 12:45:27 | 41.67 | 36.57 | 770 | 0.48 | 0.34 | 42.1 |
| 4/15/2015 12:45:27 | 41.99 | 36.89 | 845 | 0.48 | 0.33 | 46.2 |
| 4/15/2015 12:45:27 | 42.32 | 37.22 | 899 | 0.48 | 0.34 | 49.2 |
| 4/15/2015 12:45:28 | 42.65 | 37.55 | 886 | 0.48 | 0.34 | 48.5 |
| 4/15/2015 12:45:28 | 42.98 | 37.88 | 886 | 0.48 | 0.34 | 48.5 |
| 4/15/2015 12:45:29 | 43.31 | 38.21 | 886 | 0.48 | 0.34 | 48.5 |
| 4/15/2015 12:45:29 | 43.64 | 38.54 | 902 | 0.48 | 0.33 | 49.3 |
| 4/15/2015 12:45:30 | 43.96 | 38.86 | 908 | 0.48 | 0.34 | 49.6 |
| 4/15/2015 12:45:30 | 44.29 | 39.19 | 908 | 0.48 | 0.34 | 49.6 |
| 4/15/2015 12:45:30 | 44.62 | 39.52 | 908 | 0.48 | 0.34 | 49.6 |
| 4/15/2015 12:45:31 | 44.95 | 39.85 | 910 | 0.48 | 0.35 | 49.8 |
| 4/15/2015 12:45:31 | 45.28 | 40.18 | 906 | 0.48 | 0.35 | 49.6 |
| 4/15/2015 12:45:32 | 45.60 | 40.50 | 865 | 0.48 | 0.34 | 47.3 |
| 4/15/2015 12:45:32 | 45.93 | 40.83 | 865 | 0.48 | 0.34 | 47.3 |
| 4/15/2015 12:45:32 | 46.26 | 41.16 | 830 | 0.48 | 0.35 | 45.4 |
| 4/15/2015 12:45:33 | 46.59 | 41.49 | 795 | 0.48 | 0.35 | 43.5 |
| 4/15/2015 12:45:33 | 46.92 | 41.82 | 753 | 0.48 | 0.35 | 41.2 |
| 4/15/2015 12:45:34 | 47.24 | 42.14 | 736 | 0.48 | 0.34 | 40.2 |
| 4/15/2015 12:45:34 | 47.57 | 42.47 | 736 | 0.48 | 0.35 | 40.2 |
| 4/15/2015 12:45:35 | 47.90 | 42.80 | 748 | 0.48 | 0.34 | 40.9 |
| 4/15/2015 12:45:35 | 48.23 | 43.13 | 761 | 0.48 | 0.34 | 41.6 |
| 4/15/2015 12:45:36 | 48.56 | 43.46 | 789 | 0.48 | 0.34 | 43.2 |
| 4/15/2015 12:45:36 | 48.88 | 43.78 | 789 | 0.48 | 0.34 | 43.2 |
| 4/15/2015 12:45:36 | 49.21 | 44.11 | 829 | 0.48 | 0.35 | 45.3 |
| 4/15/2015 12:45:57 | 49.54 | 44.44 | 40 | 2.55 | 0.16 | 2.2 |
| 4/15/2015 12:46:05 | 49.87 | 44.77 | 51 | 3.56 | 0.43 | 2.8 |
| 4/15/2015 12:46:07 | 50.20 | 45.10 | 168 | 3.62 | 0.45 | 9.2 |
| 4/15/2015 12:46:08 | 50.53 | 45.43 | 184 | 3.61 | 0.45 | 10.1 |
| 4/15/2015 12:46:12 | 50.85 | 45.75 | 46 | 3.48 | 0.44 | 2.5 |
| 4/15/2015 12:46:31 | 51.18 | 46.08 | 16 | 5.58 | 0.13 | 0.9 |
| 4/15/2015 12:46:35 | 51.51 | 46.41 | 92 | 5.40 | 0.48 | 5.0 |
| 4/15/2015 12:46:51 | 51.84 | 46.74 | 18 | 5.50 | 0.49 | 1.0 |
| 4/15/2015 12:46:55 | 52.17 | 47.07 | 111 | 4.13 | 0.42 | 6.1 |
| 4/15/2015 12:46:57 | 52.49 | 47.39 | 121 | 3.19 | 0.47 | 6.6 |
| 4/15/2015 12:46:59 | 52.82 | 47.72 | 206 | 3.79 | 0.49 | 11.3 |
| 4/15/2015 12:47:06 | 53.15 | 48.05 | 11 | 4.03 | 0.47 | 0.6 |
| 4/15/2015 12:47:08 | 53.48 | 48.38 | 172 | 3.41 | 0.39 | 9.4 |
| 4/15/2015 12:47:09 | 53.81 | 48.71 | 217 | 4.23 | 0.45 | 11.9 |
| 4/15/2015 12:47:10 | 54.13 | 49.03 | 241 | 3.62 | 0.42 | 13.2 |
| 4/15/2015 12:47:11 | 54.46 | 49.36 | 305 | 3.96 | 0.45 | 16.7 |
| 4/15/2015 12:47:13 | 54.79 | 49.69 | 306 | 3.83 | 0.43 | 16.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 12:47:14 | 55.12 | 50.02 | 283 | 3.79 | 0.42 | 15.5 |
| 4/15/2015 | 12:47:15 | 55.45 | 50.35 | 284 | 3.88 | 0.44 | 15.5 |
| 4/15/2015 | 12:47:17 | 55.77 | 50.67 | 277 | 3.31 | 0.43 | 15.1 |
| 4/15/2015 | 12:47:18 | 56.10 | 51.00 | 289 | 3.31 | 0.42 | 15.8 |
| 4/15/2015 | 12:47:19 | 56.43 | 51.33 | 278 | 4.26 | 0.46 | 15.2 |
| 4/15/2015 | 12:47:21 | 56.76 | 51.66 | 187 | 3.61 | 0.47 | 10.2 |
| 4/15/2015 | 12:47:24 | 57.09 | 51.99 | 160 | 3.52 | 0.46 | 8.7 |
| 4/15/2015 | 12:47:28 | 57.41 | 52.31 | 95 | 3.56 | 0.47 | 5.2 |
| 4/15/2015 | 12:47:33 | 57.74 | 52.64 | 80 | 3.53 | 0.42 | 4.4 |
| 4/15/2015 | 12:47:41 | 58.07 | 52.97 | 29 | 3.56 | 0.47 | 1.6 |
| 4/15/2015 | 12:47:48 | 58.40 | 53.30 | 45 | 3.83 | 0.43 | 2.4 |
| 4/15/2015 | 12:47:51 | 58.73 | 53.63 | 121 | 3.81 | 0.45 | 6.6 |
| 4/15/2015 | 12:47:59 | 59.06 | 53.96 | 38 | 4.00 | 0.44 | 2.1 |
| 4/15/2015 | 12:48:09 | 59.38 | 54.28 | 29 | 3.79 | 0.41 | 1.6 |
| 4/15/2015 | 12:48:16 | 59.71 | 54.61 | 40 | 3.79 | 0.47 | 2.2 |
| 4/15/2015 | 12:48:20 | 60.04 | 54.94 | 95 | 3.88 | 0.43 | 5.2 |
| 4/15/2015 | 12:48:35 | 60.37 | 55.27 | 20 | 4.11 | 0.46 | 1.1 |
| 4/15/2015 | 12:48:45 | 60.57 | 55.47 | 14 | 4.14 | 0.43 | 0.8 |

## B8 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/15/2015 12:41:09

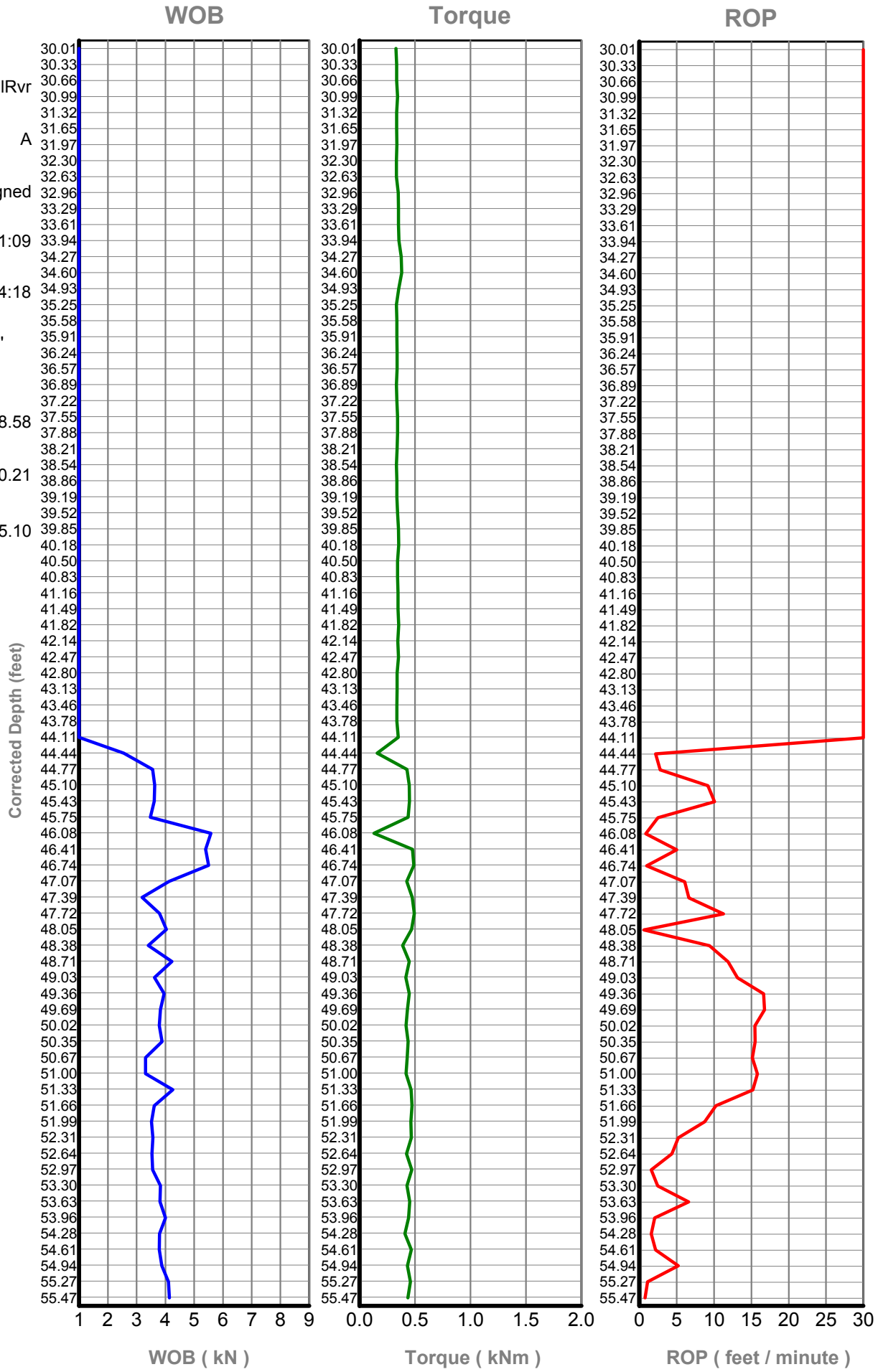
**End Date:**
4/15/2015 12:54:18

**Operator Note:**
'5.1 5.6a Auto Complete'

**Northing:**
371,088.58

**Easting:**
259,950.21

**Tide (feet):**
5.10



## Hole: B9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/16/2015 12:42:05 | 35.43 | 30.23 | 864 | 0.33 | 0.37 | 47.3 |
| 4/16/2015 12:42:06 | 35.76 | 30.56 | 861 | 0.33 | 0.37 | 47.1 |
| 4/16/2015 12:42:06 | 36.09 | 30.89 | 861 | 0.33 | 0.37 | 47.1 |
| 4/16/2015 12:42:07 | 36.42 | 31.22 | 845 | 0.33 | 0.37 | 46.2 |
| 4/16/2015 12:42:07 | 36.75 | 31.55 | 845 | 0.33 | 0.37 | 46.2 |
| 4/16/2015 12:42:07 | 37.07 | 31.87 | 845 | 0.33 | 0.37 | 46.2 |
| 4/16/2015 12:42:08 | 37.40 | 32.20 | 851 | 0.32 | 0.37 | 46.5 |
| 4/16/2015 12:42:08 | 37.73 | 32.53 | 857 | 0.33 | 0.36 | 46.9 |
| 4/16/2015 12:42:09 | 38.06 | 32.86 | 855 | 0.33 | 0.38 | 46.7 |
| 4/16/2015 12:42:09 | 38.39 | 33.19 | 855 | 0.33 | 0.38 | 46.7 |
| 4/16/2015 12:42:09 | 38.71 | 33.51 | 855 | 0.33 | 0.37 | 46.7 |
| 4/16/2015 12:42:10 | 39.04 | 33.84 | 871 | 0.33 | 0.37 | 47.6 |
| 4/16/2015 12:42:10 | 39.37 | 34.17 | 867 | 0.35 | 0.37 | 47.4 |
| 4/16/2015 12:42:11 | 39.70 | 34.50 | 859 | 0.33 | 0.37 | 47.0 |
| 4/16/2015 12:42:11 | 40.03 | 34.83 | 859 | 0.33 | 0.37 | 47.0 |
| 4/16/2015 12:42:11 | 40.35 | 35.15 | 849 | 0.33 | 0.37 | 46.4 |
| 4/16/2015 12:42:12 | 40.68 | 35.48 | 849 | 0.33 | 0.37 | 46.4 |
| 4/16/2015 12:42:12 | 41.01 | 35.81 | 852 | 0.33 | 0.37 | 46.6 |
| 4/16/2015 12:42:13 | 41.34 | 36.14 | 850 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:13 | 41.67 | 36.47 | 850 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:13 | 41.99 | 36.79 | 850 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:14 | 42.32 | 37.12 | 852 | 0.33 | 0.37 | 46.6 |
| 4/16/2015 12:42:14 | 42.65 | 37.45 | 845 | 0.33 | 0.37 | 46.2 |
| 4/16/2015 12:42:15 | 42.98 | 37.78 | 843 | 0.33 | 0.37 | 46.1 |
| 4/16/2015 12:42:15 | 43.31 | 38.11 | 843 | 0.33 | 0.37 | 46.1 |
| 4/16/2015 12:42:16 | 43.64 | 38.44 | 854 | 0.33 | 0.37 | 46.7 |
| 4/16/2015 12:42:16 | 43.96 | 38.76 | 851 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:17 | 44.29 | 39.09 | 851 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:17 | 44.62 | 39.42 | 860 | 0.33 | 0.37 | 47.0 |
| 4/16/2015 12:42:18 | 44.95 | 39.75 | 860 | 0.33 | 0.37 | 47.0 |
| 4/16/2015 12:42:18 | 45.28 | 40.08 | 853 | 0.33 | 0.37 | 46.6 |
| 4/16/2015 12:42:18 | 45.60 | 40.40 | 850 | 0.33 | 0.37 | 46.5 |
| 4/16/2015 12:42:19 | 45.93 | 40.73 | 847 | 0.33 | 0.37 | 46.3 |
| 4/16/2015 12:42:19 | 46.26 | 41.06 | 848 | 0.33 | 0.37 | 46.4 |
| 4/16/2015 12:42:20 | 46.59 | 41.39 | 848 | 0.33 | 0.37 | 46.4 |
| 4/16/2015 12:42:20 | 46.92 | 41.72 | 856 | 0.33 | 0.37 | 46.8 |
| 4/16/2015 12:42:20 | 47.24 | 42.04 | 853 | 0.33 | 0.37 | 46.6 |
| 4/16/2015 12:42:21 | 47.57 | 42.37 | 859 | 0.33 | 0.37 | 47.0 |
| 4/16/2015 12:42:21 | 47.90 | 42.70 | 861 | 0.33 | 0.37 | 47.1 |
| 4/16/2015 12:42:22 | 48.23 | 43.03 | 861 | 0.33 | 0.37 | 47.1 |
| 4/16/2015 12:42:22 | 48.56 | 43.36 | 864 | 0.33 | 0.37 | 47.2 |
| 4/16/2015 12:42:22 | 48.88 | 43.68 | 847 | 0.33 | 0.37 | 46.3 |
| 4/16/2015 12:42:23 | 49.21 | 44.01 | 857 | 0.33 | 0.36 | 46.9 |
| 4/16/2015 12:42:23 | 49.54 | 44.34 | 849 | 0.32 | 0.38 | 46.4 |
| 4/16/2015 12:42:43 | 49.87 | 44.67 | 0 | 3.12 | 0.39 | 0.0 |
| 4/16/2015 12:42:44 | 50.20 | 45.00 | 65 | 4.01 | 0.43 | 3.6 |
| 4/16/2015 12:42:51 | 50.53 | 45.33 | 40 | 3.83 | 0.42 | 2.2 |
| 4/16/2015 12:42:52 | 50.85 | 45.65 | 112 | 3.55 | 0.43 | 6.1 |
| 4/16/2015 12:42:57 | 51.18 | 45.98 | 0 | 3.14 | 0.41 | 0.0 |
| 4/16/2015 12:42:58 | 51.51 | 46.31 | 118 | 3.26 | 0.43 | 6.5 |
| 4/16/2015 12:42:59 | 51.84 | 46.64 | 194 | 5.86 | 0.42 | 10.6 |
| 4/16/2015 12:43:00 | 52.17 | 46.97 | 316 | 3.68 | 0.41 | 17.3 |
| 4/16/2015 12:43:01 | 52.49 | 47.29 | 350 | 3.83 | 0.41 | 19.1 |
| 4/16/2015 12:43:02 | 52.82 | 47.62 | 332 | 2.84 | 0.43 | 18.2 |
| 4/16/2015 12:43:03 | 53.15 | 47.95 | 343 | 3.78 | 0.43 | 18.8 |
| 4/16/2015 12:43:04 | 53.48 | 48.28 | 329 | 5.29 | 0.43 | 18.0 |
| 4/16/2015 12:43:05 | 53.81 | 48.61 | 321 | 4.34 | 0.45 | 17.6 |
| 4/16/2015 12:43:11 | 54.13 | 48.93 | 114 | 3.32 | 0.42 | 6.2 |
| 4/16/2015 12:43:12 | 54.46 | 49.26 | 235 | 3.41 | 0.42 | 12.8 |
| 4/16/2015 12:43:14 | 54.79 | 49.59 | 270 | 3.29 | 0.41 | 14.8 |
| 4/16/2015 12:43:15 | 55.12 | 49.92 | 256 | 3.48 | 0.42 | 14.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/16/2015 | 12:43:16 | 55.45 | 50.25 | 247 | 3.64 | 0.42 | 13.5 |
| 4/16/2015 | 12:43:18 | 55.77 | 50.57 | 272 | 3.59 | 0.41 | 14.9 |
| 4/16/2015 | 12:43:19 | 56.10 | 50.90 | 308 | 2.90 | 0.42 | 16.8 |
| 4/16/2015 | 12:43:20 | 56.43 | 51.23 | 339 | 3.05 | 0.42 | 18.6 |
| 4/16/2015 | 12:43:21 | 56.76 | 51.56 | 355 | 3.43 | 0.43 | 19.4 |
| 4/16/2015 | 12:43:22 | 57.09 | 51.89 | 333 | 3.51 | 0.40 | 18.2 |
| 4/16/2015 | 12:43:23 | 57.41 | 52.21 | 330 | 4.45 | 0.47 | 18.1 |
| 4/16/2015 | 12:43:25 | 57.74 | 52.54 | 267 | 3.18 | 0.43 | 14.6 |
| 4/16/2015 | 12:43:26 | 58.07 | 52.87 | 248 | 2.71 | 0.42 | 13.6 |
| 4/16/2015 | 12:43:27 | 58.40 | 53.20 | 304 | 2.99 | 0.43 | 16.6 |
| 4/16/2015 | 12:43:30 | 58.73 | 53.53 | 144 | 2.62 | 0.43 | 7.9 |
| 4/16/2015 | 12:43:33 | 59.06 | 53.86 | 141 | 2.67 | 0.43 | 7.7 |
| 4/16/2015 | 12:43:36 | 59.38 | 54.18 | 104 | 3.09 | 0.44 | 5.7 |
| 4/16/2015 | 12:44:05 | 59.71 | 54.51 | 72 | 3.35 | 0.44 | 4.0 |
| 4/16/2015 | 12:44:09 | 60.04 | 54.84 | 81 | 3.75 | 0.44 | 4.4 |
| 4/16/2015 | 12:44:15 | 60.37 | 55.17 | 62 | 3.64 | 0.42 | 3.4 |
| 4/16/2015 | 12:44:22 | 60.62 | 55.42 | 46 | 4.36 | 0.45 | 2.5 |

## B9 - Summary

**Pattern Number:**
AreaB_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/16/2015 12:39:30

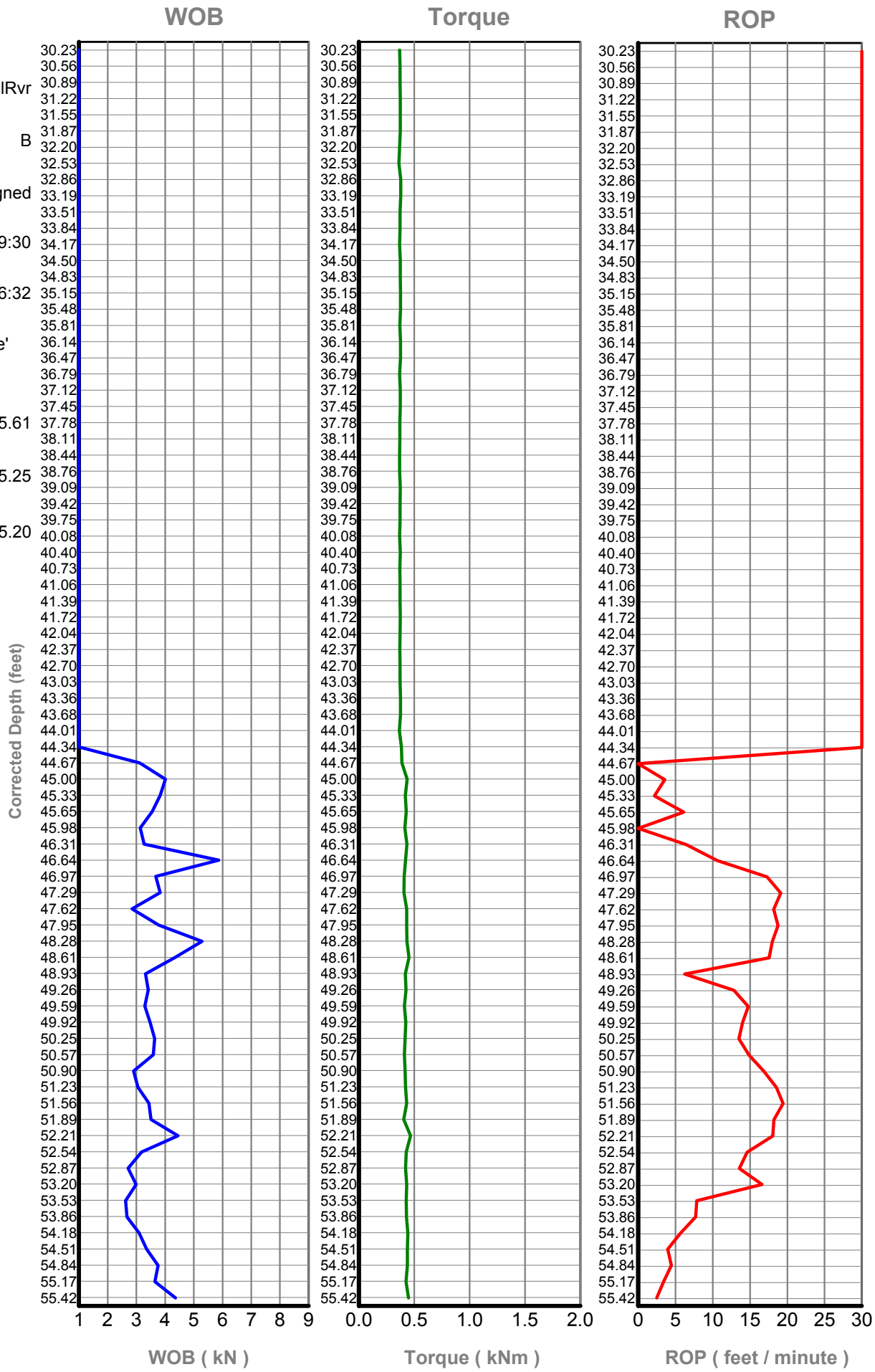
**End Date:**
4/16/2015 12:46:32

**Operator Note:**
'5.2 5.6 b Auto Complete'

**Northing:**
371,085.61

**Easting:**
260,025.25

**Tide (feet):**
5.20



## Hole: C1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 5:08:55 | 32.48 | 30.08 | 1,081 | 1.76 | 0.33 | 59.1 |
| 4/18/2015 5:08:55 | 32.81 | 30.41 | 1,078 | 1.76 | 0.34 | 59.0 |
| 4/18/2015 5:08:56 | 33.14 | 30.74 | 1,078 | 1.76 | 0.34 | 59.0 |
| 4/18/2015 5:08:56 | 33.46 | 31.06 | 1,075 | 1.51 | 0.42 | 58.8 |
| 4/18/2015 5:08:56 | 33.79 | 31.39 | 1,075 | 0.29 | 0.33 | 58.8 |
| 4/18/2015 5:08:57 | 34.12 | 31.72 | 1,075 | 0.29 | 0.33 | 58.8 |
| 4/18/2015 5:08:57 | 34.45 | 32.05 | 1,075 | 0.29 | 0.34 | 58.8 |
| 4/18/2015 5:08:57 | 34.78 | 32.38 | 1,075 | 0.29 | 0.34 | 58.8 |
| 4/18/2015 5:08:57 | 35.11 | 32.71 | 1,061 | 0.29 | 0.34 | 58.0 |
| 4/18/2015 5:08:58 | 35.43 | 33.03 | 1,052 | 0.31 | 0.34 | 57.5 |
| 4/18/2015 5:08:59 | 35.76 | 33.36 | 1,052 | 0.31 | 0.34 | 57.5 |
| 4/18/2015 5:08:59 | 36.09 | 33.69 | 1,043 | 0.29 | 0.33 | 57.0 |
| 4/18/2015 5:08:59 | 36.42 | 34.02 | 1,052 | 0.29 | 0.33 | 57.5 |
| 4/18/2015 5:09:00 | 36.75 | 34.35 | 1,052 | 0.29 | 0.33 | 57.5 |
| 4/18/2015 5:09:00 | 37.07 | 34.67 | 1,046 | 0.30 | 0.34 | 57.2 |
| 4/18/2015 5:09:00 | 37.40 | 35.00 | 1,046 | 0.29 | 0.34 | 57.2 |
| 4/18/2015 5:09:01 | 37.73 | 35.33 | 1,046 | 0.29 | 0.34 | 57.2 |
| 4/18/2015 5:09:01 | 38.06 | 35.66 | 1,046 | 0.42 | 0.34 | 57.2 |
| 4/18/2015 5:09:01 | 38.39 | 35.99 | 1,052 | 0.47 | 0.36 | 57.5 |
| 4/18/2015 5:09:02 | 38.71 | 36.31 | 1,052 | 0.47 | 0.36 | 57.5 |
| 4/18/2015 5:09:02 | 39.04 | 36.64 | 1,029 | 0.43 | 0.36 | 56.3 |
| 4/18/2015 5:09:02 | 39.37 | 36.97 | 1,021 | 0.41 | 0.36 | 55.8 |
| 4/18/2015 5:09:03 | 39.70 | 37.30 | 1,021 | 0.41 | 0.36 | 55.8 |
| 4/18/2015 5:09:16 | 40.03 | 37.63 | 0 | 0.27 | 0.34 | 0.0 |
| 4/18/2015 5:09:16 | 40.35 | 37.95 | 176 | 0.29 | 0.34 | 9.6 |
| 4/18/2015 5:09:17 | 40.68 | 38.28 | 176 | 0.29 | 0.34 | 9.6 |
| 4/18/2015 5:09:17 | 41.01 | 38.61 | 374 | 0.29 | 0.34 | 20.4 |
| 4/18/2015 5:09:17 | 41.34 | 38.94 | 568 | 0.29 | 0.34 | 31.1 |
| 4/18/2015 5:09:18 | 41.67 | 39.27 | 568 | 0.29 | 0.34 | 31.1 |
| 4/18/2015 5:09:18 | 41.99 | 39.59 | 777 | 0.29 | 0.34 | 42.5 |
| 4/18/2015 5:09:18 | 42.32 | 39.92 | 968 | 0.29 | 0.34 | 52.9 |
| 4/18/2015 5:09:19 | 42.65 | 40.25 | 968 | 0.29 | 0.34 | 52.9 |
| 4/18/2015 5:09:19 | 42.98 | 40.58 | 1,001 | 0.29 | 0.34 | 54.7 |
| 4/18/2015 5:09:20 | 43.31 | 40.91 | 1,001 | 0.29 | 0.34 | 54.7 |
| 4/18/2015 5:09:20 | 43.64 | 41.24 | 1,001 | 0.29 | 0.34 | 54.7 |
| 4/18/2015 5:09:20 | 43.96 | 41.56 | 1,010 | 0.29 | 0.34 | 55.2 |
| 4/18/2015 5:09:21 | 44.29 | 41.89 | 1,010 | 0.29 | 0.34 | 55.2 |
| 4/18/2015 5:09:21 | 44.62 | 42.22 | 1,010 | 0.29 | 0.34 | 55.2 |
| 4/18/2015 5:09:21 | 44.95 | 42.55 | 1,012 | 0.29 | 0.34 | 55.4 |
| 4/18/2015 5:09:22 | 45.28 | 42.88 | 1,006 | 0.29 | 0.33 | 55.0 |
| 4/18/2015 5:09:22 | 45.60 | 43.20 | 1,006 | 0.29 | 0.33 | 55.0 |
| 4/18/2015 5:09:22 | 45.93 | 43.53 | 1,027 | 0.29 | 0.34 | 56.2 |
| 4/18/2015 5:09:23 | 46.26 | 43.86 | 1,027 | 0.29 | 0.34 | 56.2 |
| 4/18/2015 5:09:23 | 46.59 | 44.19 | 1,027 | 0.29 | 0.34 | 56.2 |
| 4/18/2015 5:09:23 | 46.92 | 44.52 | 1,024 | 0.32 | 0.36 | 56.0 |
| 4/18/2015 5:09:49 | 47.24 | 44.84 | 83 | 3.02 | 0.40 | 4.6 |
| 4/18/2015 5:09:53 | 47.57 | 45.17 | 96 | 4.83 | 0.43 | 5.2 |
| 4/18/2015 5:09:58 | 47.90 | 45.50 | 63 | 4.25 | 0.41 | 3.5 |
| 4/18/2015 5:10:03 | 48.23 | 45.83 | 107 | 4.84 | 0.42 | 5.8 |
| 4/18/2015 5:10:06 | 48.56 | 46.16 | 110 | 3.69 | 0.40 | 6.0 |
| 4/18/2015 5:10:08 | 48.88 | 46.48 | 143 | 2.61 | 0.37 | 7.8 |
| 4/18/2015 5:10:09 | 49.21 | 46.81 | 278 | 3.09 | 0.39 | 15.2 |
| 4/18/2015 5:10:10 | 49.54 | 47.14 | 301 | 4.01 | 0.41 | 16.5 |
| 4/18/2015 5:10:11 | 49.87 | 47.47 | 286 | 3.18 | 0.40 | 15.6 |
| 4/18/2015 5:10:12 | 50.20 | 47.80 | 323 | 3.94 | 0.38 | 17.7 |
| 4/18/2015 5:10:12 | 50.53 | 48.13 | 403 | 1.66 | 0.34 | 22.0 |
| 4/18/2015 5:10:13 | 50.85 | 48.45 | 539 | 1.67 | 0.35 | 29.5 |
| 4/18/2015 5:10:13 | 51.18 | 48.78 | 633 | 1.74 | 0.36 | 34.6 |
| 4/18/2015 5:10:14 | 51.51 | 49.11 | 719 | 2.16 | 0.37 | 39.3 |
| 4/18/2015 5:10:14 | 51.84 | 49.44 | 762 | 2.85 | 0.38 | 41.7 |
| 4/18/2015 5:10:15 | 52.17 | 49.77 | 733 | 1.91 | 0.35 | 40.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 5:10:15 | 52.49 | 50.09 | 684 | 1.91 | 0.37 | 37.4 |
| 4/18/2015 | 5:10:16 | 52.82 | 50.42 | 643 | 2.10 | 0.37 | 35.2 |
| 4/18/2015 | 5:10:16 | 53.15 | 50.75 | 595 | 1.76 | 0.36 | 32.5 |
| 4/18/2015 | 5:10:17 | 53.48 | 51.08 | 623 | 1.85 | 0.37 | 34.1 |
| 4/18/2015 | 5:10:17 | 53.81 | 51.41 | 682 | 1.93 | 0.37 | 37.3 |
| 4/18/2015 | 5:10:18 | 54.13 | 51.73 | 618 | 1.97 | 0.38 | 33.8 |
| 4/18/2015 | 5:10:19 | 54.46 | 52.06 | 601 | 2.06 | 0.38 | 32.9 |
| 4/18/2015 | 5:10:19 | 54.79 | 52.39 | 550 | 1.79 | 0.36 | 30.1 |
| 4/18/2015 | 5:10:20 | 55.12 | 52.72 | 550 | 1.87 | 0.37 | 30.1 |
| 4/18/2015 | 5:10:20 | 55.45 | 53.05 | 561 | 2.21 | 0.38 | 30.7 |
| 4/18/2015 | 5:10:22 | 55.77 | 53.37 | 582 | 2.34 | 0.37 | 31.8 |
| 4/18/2015 | 5:10:22 | 56.10 | 53.70 | 599 | 3.14 | 0.38 | 32.7 |
| 4/18/2015 | 5:10:23 | 56.43 | 54.03 | 566 | 2.39 | 0.37 | 31.0 |
| 4/18/2015 | 5:10:24 | 56.76 | 54.36 | 521 | 2.65 | 0.39 | 28.5 |
| 4/18/2015 | 5:10:25 | 57.09 | 54.69 | 416 | 2.80 | 0.38 | 22.8 |
| 4/18/2015 | 5:10:26 | 57.41 | 55.01 | 370 | 2.37 | 0.37 | 20.2 |
| 4/18/2015 | 5:10:32 | 57.74 | 55.34 | 6 | 3.90 | 0.42 | 0.3 |

## C1 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 5:07:52

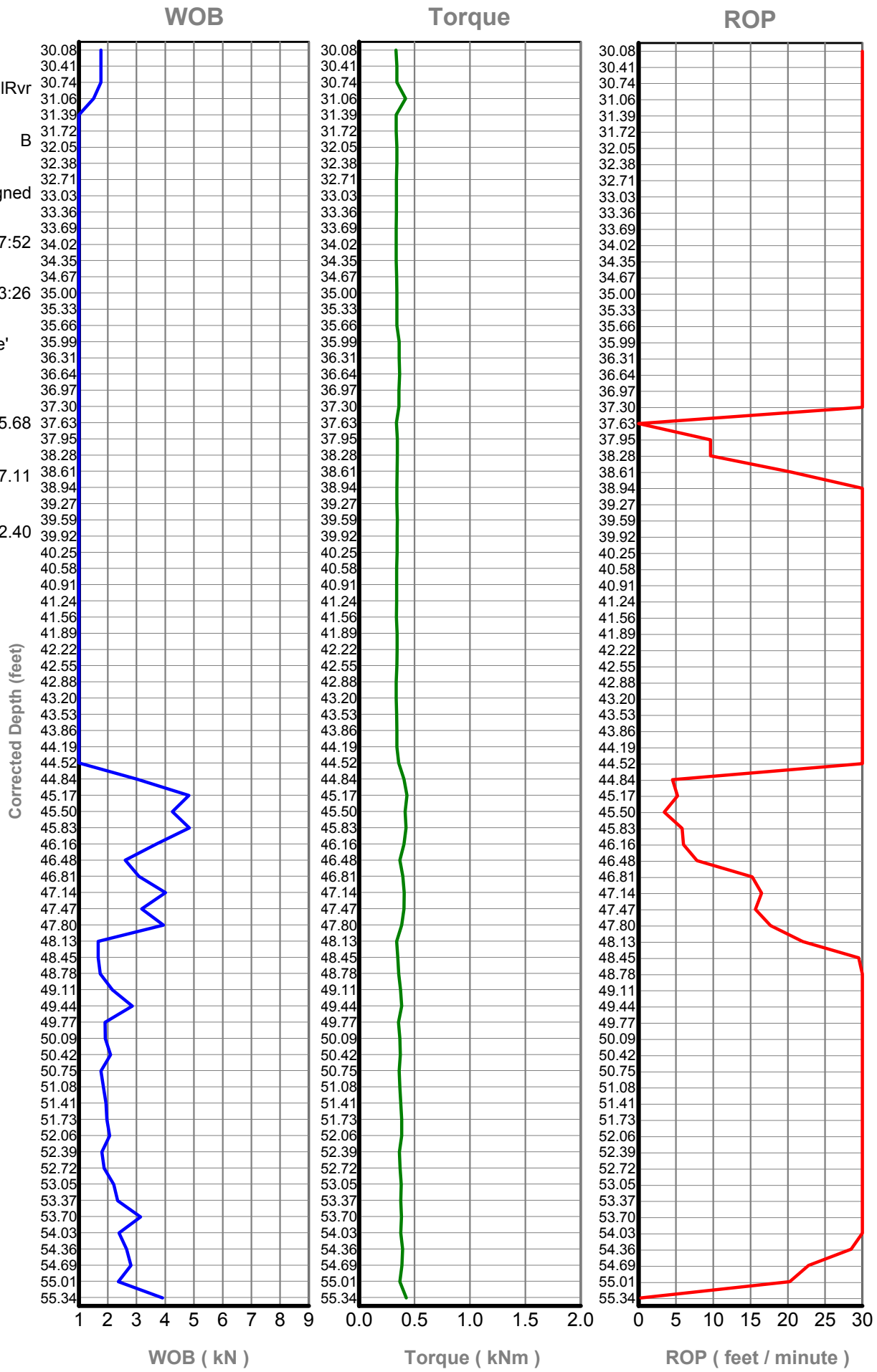
**End Date:**
4/18/2015 5:13:26

**Operator Note:**
'2.4 2.8 b Auto Complete'

**Northing:**
371,065.68

**Easting:**
257,697.11

**Tide (feet):**
2.40



## Hole: C10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:33:00 | 31.17 | 30.07 | 966 | 0.19 | 0.35 | 52.8 |
| 4/17/2015 20:33:00 | 31.50 | 30.40 | 966 | 0.19 | 0.34 | 52.8 |
| 4/17/2015 20:33:01 | 31.82 | 30.72 | 966 | 0.19 | 0.34 | 52.8 |
| 4/17/2015 20:33:01 | 32.15 | 31.05 | 968 | 0.20 | 0.35 | 53.0 |
| 4/17/2015 20:33:01 | 32.48 | 31.38 | 962 | 0.20 | 0.35 | 52.6 |
| 4/17/2015 20:33:02 | 32.81 | 31.71 | 962 | 0.20 | 0.35 | 52.6 |
| 4/17/2015 20:33:02 | 33.14 | 32.04 | 962 | 0.19 | 0.35 | 52.6 |
| 4/17/2015 20:33:02 | 33.46 | 32.36 | 960 | 0.20 | 0.35 | 52.5 |
| 4/17/2015 20:33:03 | 33.79 | 32.69 | 965 | 0.20 | 0.35 | 52.8 |
| 4/17/2015 20:33:03 | 34.12 | 33.02 | 965 | 0.20 | 0.35 | 52.8 |
| 4/17/2015 20:33:03 | 34.45 | 33.35 | 957 | 0.20 | 0.35 | 52.3 |
| 4/17/2015 20:33:04 | 34.78 | 33.68 | 954 | 0.20 | 0.35 | 52.2 |
| 4/17/2015 20:33:04 | 35.11 | 34.01 | 951 | 0.19 | 0.35 | 52.0 |
| 4/17/2015 20:33:05 | 35.43 | 34.33 | 951 | 0.19 | 0.35 | 52.0 |
| 4/17/2015 20:33:05 | 35.76 | 34.66 | 957 | 0.20 | 0.35 | 52.3 |
| 4/17/2015 20:33:05 | 36.09 | 34.99 | 948 | 0.19 | 0.35 | 51.9 |
| 4/17/2015 20:33:06 | 36.42 | 35.32 | 948 | 0.19 | 0.35 | 51.9 |
| 4/17/2015 20:33:06 | 36.75 | 35.65 | 948 | 0.20 | 0.35 | 51.9 |
| 4/17/2015 20:33:07 | 37.07 | 35.97 | 940 | 0.19 | 0.35 | 51.4 |
| 4/17/2015 20:33:07 | 37.40 | 36.30 | 937 | 0.20 | 0.35 | 51.2 |
| 4/17/2015 20:33:07 | 37.73 | 36.63 | 937 | 0.20 | 0.35 | 51.2 |
| 4/17/2015 20:33:08 | 38.06 | 36.96 | 937 | 0.19 | 0.35 | 51.2 |
| 4/17/2015 20:33:08 | 38.39 | 37.29 | 933 | 0.19 | 0.35 | 51.0 |
| 4/17/2015 20:33:09 | 38.71 | 37.61 | 933 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 20:33:09 | 39.04 | 37.94 | 933 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 20:33:09 | 39.37 | 38.27 | 947 | 0.19 | 0.35 | 51.8 |
| 4/17/2015 20:33:10 | 39.70 | 38.60 | 953 | 0.19 | 0.35 | 52.1 |
| 4/17/2015 20:33:10 | 40.03 | 38.93 | 953 | 0.19 | 0.35 | 52.1 |
| 4/17/2015 20:33:10 | 40.35 | 39.25 | 958 | 0.19 | 0.35 | 52.4 |
| 4/17/2015 20:33:11 | 40.68 | 39.58 | 948 | 0.19 | 0.35 | 51.9 |
| 4/17/2015 20:33:11 | 41.01 | 39.91 | 951 | 0.19 | 0.35 | 52.0 |
| 4/17/2015 20:33:12 | 41.34 | 40.24 | 951 | 0.19 | 0.35 | 52.0 |
| 4/17/2015 20:33:12 | 41.67 | 40.57 | 945 | 0.19 | 0.35 | 51.7 |
| 4/17/2015 20:33:12 | 41.99 | 40.89 | 942 | 0.19 | 0.30 | 51.5 |
| 4/17/2015 20:33:13 | 42.32 | 41.22 | 942 | 0.19 | 0.30 | 51.5 |
| 4/17/2015 20:33:13 | 42.65 | 41.55 | 929 | 0.19 | 0.35 | 50.8 |
| 4/17/2015 20:33:13 | 42.98 | 41.88 | 940 | 0.19 | 0.35 | 51.4 |
| 4/17/2015 20:33:14 | 43.31 | 42.21 | 943 | 0.19 | 0.34 | 51.6 |
| 4/17/2015 20:33:14 | 43.64 | 42.54 | 943 | 0.19 | 0.34 | 51.6 |
| 4/17/2015 20:33:14 | 43.96 | 42.86 | 943 | 0.17 | 0.40 | 51.6 |
| 4/17/2015 20:33:43 | 44.29 | 43.19 | 116 | 3.22 | 0.42 | 6.3 |
| 4/17/2015 20:33:47 | 44.62 | 43.52 | 84 | 2.91 | 0.42 | 4.6 |
| 4/17/2015 20:33:52 | 44.95 | 43.85 | 96 | 3.03 | 0.41 | 5.3 |
| 4/17/2015 20:33:55 | 45.28 | 44.18 | 89 | 3.08 | 0.42 | 4.9 |
| 4/17/2015 20:34:00 | 45.60 | 44.50 | 66 | 3.16 | 0.42 | 3.6 |
| 4/17/2015 20:34:05 | 45.93 | 44.83 | 66 | 2.99 | 0.42 | 3.6 |
| 4/17/2015 20:34:13 | 46.26 | 45.16 | 41 | 3.17 | 0.42 | 2.2 |
| 4/17/2015 20:34:21 | 46.59 | 45.49 | 49 | 3.16 | 0.42 | 2.7 |
| 4/17/2015 20:34:27 | 46.92 | 45.82 | 61 | 3.15 | 0.42 | 3.3 |
| 4/17/2015 20:34:33 | 47.24 | 46.14 | 64 | 3.12 | 0.41 | 3.5 |
| 4/17/2015 20:34:39 | 47.57 | 46.47 | 55 | 3.40 | 0.42 | 3.0 |
| 4/17/2015 20:34:46 | 47.90 | 46.80 | 41 | 3.07 | 0.42 | 2.2 |
| 4/17/2015 20:34:56 | 48.23 | 47.13 | 35 | 3.17 | 0.43 | 1.9 |
| 4/17/2015 20:35:06 | 48.56 | 47.46 | 37 | 3.29 | 0.42 | 2.0 |
| 4/17/2015 20:35:15 | 48.88 | 47.78 | 42 | 3.53 | 0.42 | 2.3 |
| 4/17/2015 20:35:24 | 49.21 | 48.11 | 39 | 3.20 | 0.42 | 2.1 |
| 4/17/2015 20:35:30 | 49.54 | 48.44 | 60 | 3.30 | 0.41 | 3.3 |
| 4/17/2015 20:35:34 | 49.87 | 48.77 | 98 | 3.03 | 0.41 | 5.3 |
| 4/17/2015 20:35:37 | 50.20 | 49.10 | 95 | 2.96 | 0.42 | 5.2 |
| 4/17/2015 20:35:41 | 50.53 | 49.43 | 106 | 3.06 | 0.42 | 5.8 |
| 4/17/2015 20:35:45 | 50.85 | 49.75 | 101 | 3.21 | 0.42 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 20:35:48 | 51.18 | 50.08 | 101 | 3.14 | 0.41 | 5.5 |
| 4/17/2015 | 20:35:51 | 51.51 | 50.41 | 95 | 3.24 | 0.42 | 5.2 |
| 4/17/2015 | 20:35:56 | 51.84 | 50.74 | 81 | 3.20 | 0.35 | 4.4 |
| 4/17/2015 | 20:36:01 | 52.17 | 51.07 | 65 | 3.13 | 0.43 | 3.6 |
| 4/17/2015 | 20:36:07 | 52.49 | 51.39 | 60 | 3.14 | 0.43 | 3.3 |
| 4/17/2015 | 20:36:13 | 52.82 | 51.72 | 61 | 3.24 | 0.42 | 3.3 |
| 4/17/2015 | 20:36:19 | 53.15 | 52.05 | 63 | 3.31 | 0.43 | 3.4 |
| 4/17/2015 | 20:36:24 | 53.48 | 52.38 | 61 | 3.64 | 0.43 | 3.3 |
| 4/17/2015 | 20:36:26 | 53.60 | 52.50 | 68 | 4.14 | 0.42 | 3.7 |

## C10 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 20:26:00

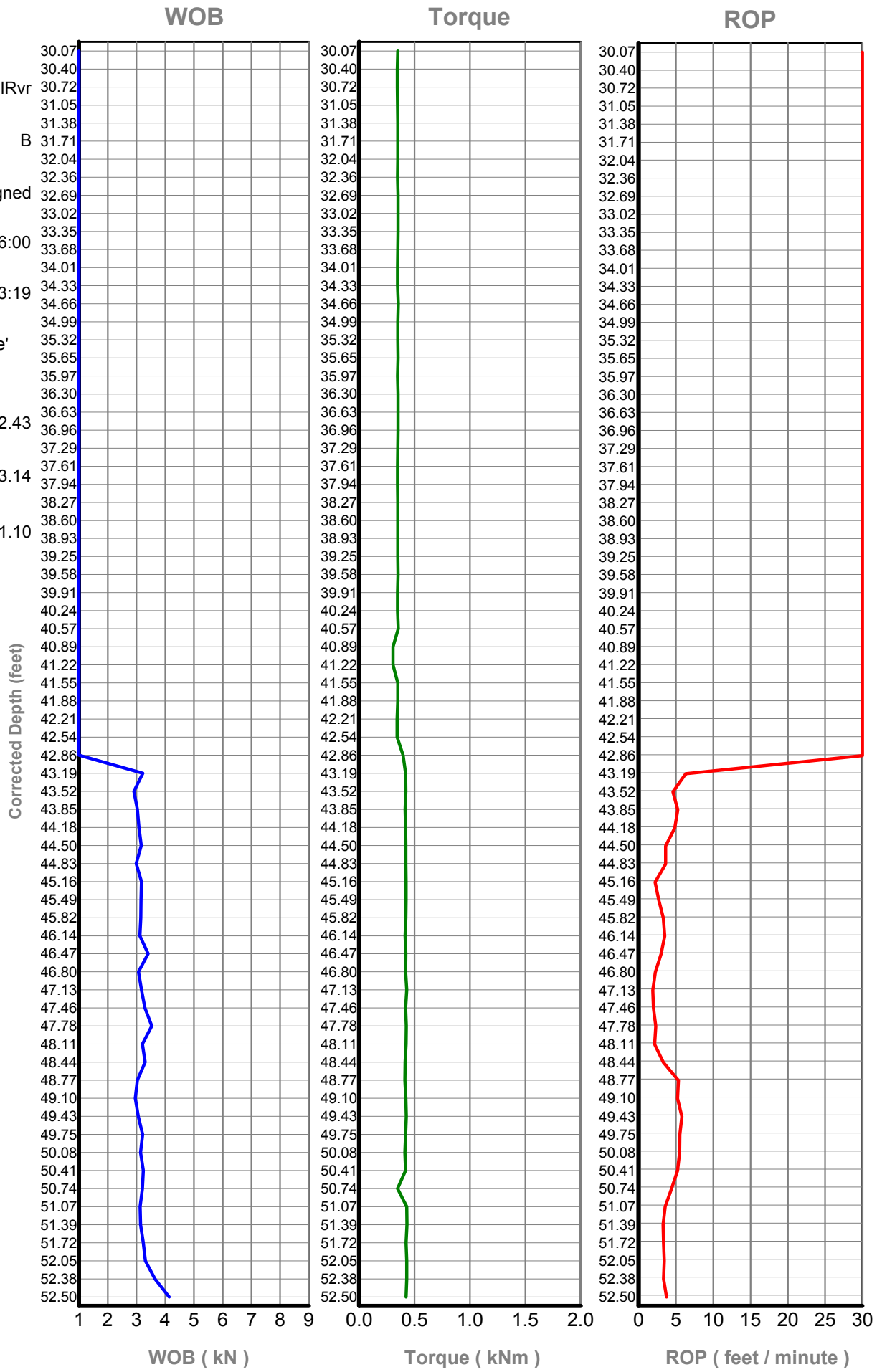
**End Date:**
4/17/2015 20:43:19

**Operator Note:**
'1.1 1.3 b Auto Complete'

**Northing:**
371,282.43

**Easting:**
258,163.14

**Tide (feet):**
1.10



## Hole: C1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 11:59:53 | 35.76 | 30.26 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 11:59:53 | 36.09 | 30.59 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 11:59:54 | 36.42 | 30.92 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 11:59:54 | 36.75 | 31.25 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 11:59:54 | 37.07 | 31.57 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 11:59:55 | 37.40 | 31.90 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 11:59:55 | 37.73 | 32.23 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 11:59:55 | 38.06 | 32.56 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 11:59:56 | 38.39 | 32.89 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 11:59:56 | 38.71 | 33.21 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 11:59:56 | 39.04 | 33.54 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 11:59:57 | 39.37 | 33.87 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 11:59:57 | 39.70 | 34.20 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 11:59:57 | 40.03 | 34.53 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 11:59:58 | 40.35 | 34.85 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 11:59:58 | 40.68 | 35.18 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 11:59:58 | 41.01 | 35.51 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 11:59:59 | 41.34 | 35.84 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 11:59:59 | 41.67 | 36.17 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 11:59:59 | 41.99 | 36.49 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:00 | 42.32 | 36.82 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:00 | 42.65 | 37.15 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 12:00:00 | 42.98 | 37.48 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 12:00:01 | 43.31 | 37.81 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 12:00:01 | 43.64 | 38.14 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 12:00:01 | 43.96 | 38.46 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 12:00:02 | 44.29 | 38.79 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 12:00:02 | 44.62 | 39.12 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 12:00:02 | 44.95 | 39.45 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:03 | 45.28 | 39.78 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:03 | 45.60 | 40.10 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 12:00:04 | 45.93 | 40.43 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 12:00:04 | 46.26 | 40.76 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 12:00:04 | 46.59 | 41.09 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:05 | 46.92 | 41.42 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:05 | 47.24 | 41.74 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:05 | 47.57 | 42.07 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:06 | 47.90 | 42.40 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:06 | 48.23 | 42.73 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:06 | 48.56 | 43.06 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:07 | 48.88 | 43.38 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:07 | 49.21 | 43.71 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:00:07 | 49.54 | 44.04 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 12:00:08 | 49.87 | 44.37 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 12:00:08 | 50.20 | 44.70 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 12:00:08 | 50.53 | 45.03 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:09 | 50.85 | 45.35 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:00:09 | 51.18 | 45.68 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:00:09 | 51.51 | 46.01 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:00:10 | 51.84 | 46.34 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:00:22 | 52.17 | 46.67 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 12:00:24 | 52.49 | 46.99 | 153 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 12:00:28 | 52.82 | 47.32 | 106 | 0.24 | 0.37 | 5.8 |
| 4/18/2015 12:00:30 | 53.15 | 47.65 | 150 | 0.24 | 0.37 | 8.2 |
| 4/18/2015 12:00:34 | 53.48 | 47.98 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 12:00:39 | 53.81 | 48.31 | 72 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 12:00:45 | 54.13 | 48.63 | 56 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 12:00:51 | 54.46 | 48.96 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 12:00:55 | 54.79 | 49.29 | 101 | 0.24 | 0.37 | 5.5 |
| 4/18/2015 12:00:58 | 55.12 | 49.62 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 12:01:03 | 55.45 | 49.95 | 87 | 0.24 | 0.37 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 12:01:07 | 55.77 | 50.27 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 | 12:01:13 | 56.10 | 50.60 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 | 12:01:18 | 56.43 | 50.93 | 76 | 0.24 | 0.37 | 4.2 |
| 4/18/2015 | 12:01:23 | 56.76 | 51.26 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 | 12:01:29 | 57.09 | 51.59 | 56 | 0.24 | 0.37 | 3.1 |
| 4/18/2015 | 12:01:36 | 57.41 | 51.91 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 | 12:01:43 | 57.74 | 52.24 | 47 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 | 12:01:48 | 58.05 | 52.55 | 61 | 0.24 | 0.37 | 3.3 |

## C1000 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 11:56:04

**End Date:**
4/18/2015 12:03:16

**Operator Note:**
'5.5 5.2 b Rock@ 57"

**Northing:**
371,362.21

**Easting:**
258,541.75

**Tide (feet):**
5.50



## Hole: C1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 12:05:57 | 35.76 | 30.16 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:05:57 | 36.09 | 30.49 | 1,071 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:05:58 | 36.42 | 30.82 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:05:58 | 36.75 | 31.15 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:05:58 | 37.07 | 31.47 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:05:59 | 37.40 | 31.80 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:05:59 | 37.73 | 32.13 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:05:59 | 38.06 | 32.46 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:06:00 | 38.39 | 32.79 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 12:06:00 | 38.71 | 33.11 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 12:06:00 | 39.04 | 33.44 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:01 | 39.37 | 33.77 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:01 | 39.70 | 34.10 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 12:06:01 | 40.03 | 34.43 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:02 | 40.35 | 34.75 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:02 | 40.68 | 35.08 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:02 | 41.01 | 35.41 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:03 | 41.34 | 35.74 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:03 | 41.67 | 36.07 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 12:06:03 | 41.99 | 36.39 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:06:04 | 42.32 | 36.72 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:06:04 | 42.65 | 37.05 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 12:06:04 | 42.98 | 37.38 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:06:05 | 43.31 | 37.71 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:06:05 | 43.64 | 38.04 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 12:06:06 | 43.96 | 38.36 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:06:06 | 44.29 | 38.69 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 12:06:06 | 44.62 | 39.02 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 12:06:07 | 44.95 | 39.35 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 12:06:07 | 45.28 | 39.68 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:07 | 45.60 | 40.00 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 12:06:08 | 45.93 | 40.33 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 12:06:08 | 46.26 | 40.66 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:08 | 46.59 | 40.99 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 12:06:09 | 46.92 | 41.32 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 12:06:09 | 47.24 | 41.64 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 12:06:09 | 47.57 | 41.97 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 12:06:10 | 47.90 | 42.30 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 12:06:10 | 48.23 | 42.63 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:10 | 48.56 | 42.96 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:10 | 48.88 | 43.28 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:11 | 49.21 | 43.61 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 12:06:11 | 49.54 | 43.94 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 12:06:11 | 49.87 | 44.27 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 12:06:12 | 50.20 | 44.60 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:12 | 50.53 | 44.93 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 12:06:12 | 50.85 | 45.25 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 12:06:13 | 51.18 | 45.58 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 12:06:13 | 51.51 | 45.91 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 12:06:13 | 51.84 | 46.24 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:06:14 | 52.17 | 46.57 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 12:06:14 | 52.49 | 46.89 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 12:06:14 | 52.82 | 47.22 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 12:06:15 | 53.15 | 47.55 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:06:39 | 53.48 | 47.88 | 98 | 0.24 | 0.37 | 5.3 |
| 4/18/2015 12:06:42 | 53.81 | 48.21 | 125 | 0.24 | 0.37 | 6.8 |
| 4/18/2015 12:06:46 | 54.13 | 48.53 | 85 | 0.24 | 0.37 | 4.7 |
| 4/18/2015 12:06:50 | 54.46 | 48.86 | 96 | 0.24 | 0.37 | 5.3 |
| 4/18/2015 12:06:54 | 54.79 | 49.19 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 12:06:59 | 55.12 | 49.52 | 72 | 0.24 | 0.37 | 3.9 |
| 4/18/2015 12:07:04 | 55.45 | 49.85 | 70 | 0.24 | 0.37 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 12:07:10 | 55.77 | 50.17 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 | 12:07:15 | 56.10 | 50.50 | 69 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 | 12:07:20 | 56.42 | 50.82 | 64 | 0.24 | 0.37 | 3.5 |

## C1001 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 12:04:11

**End Date:**
4/18/2015 12:09:44

**Operator Note:**
'5.6 5.2 b Rock @ 55"

**Northing:**
371,307.51

**Easting:**
258,564.08

**Tide (feet):**
5.60



## Hole: C1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 11:55:43 | 35.76 | 30.26 | 590 | 2.13 | 0.26 | 32.3 |
| 4/18/2015 11:55:44 | 36.09 | 30.59 | 600 | 2.13 | 0.26 | 32.8 |
| 4/18/2015 11:55:45 | 36.42 | 30.92 | 584 | 2.15 | 0.26 | 31.9 |
| 4/18/2015 11:55:45 | 36.75 | 31.25 | 607 | 2.00 | 0.26 | 33.2 |
| 4/18/2015 11:55:46 | 37.07 | 31.57 | 601 | 2.13 | 0.26 | 32.9 |
| 4/18/2015 11:55:46 | 37.40 | 31.90 | 578 | 2.12 | 0.26 | 31.6 |
| 4/18/2015 11:55:47 | 37.73 | 32.23 | 578 | 2.12 | 0.26 | 31.6 |
| 4/18/2015 11:55:47 | 38.06 | 32.56 | 584 | 2.12 | 0.26 | 31.9 |
| 4/18/2015 11:55:48 | 38.39 | 32.89 | 584 | 2.13 | 0.26 | 31.9 |
| 4/18/2015 11:55:49 | 38.71 | 33.21 | 581 | 2.13 | 0.26 | 31.8 |
| 4/18/2015 11:55:49 | 39.04 | 33.54 | 581 | 2.13 | 0.26 | 31.8 |
| 4/18/2015 11:55:50 | 39.37 | 33.87 | 590 | 2.12 | 0.26 | 32.3 |
| 4/18/2015 11:55:51 | 39.70 | 34.20 | 605 | 2.12 | 0.25 | 33.1 |
| 4/18/2015 11:55:51 | 40.03 | 34.53 | 604 | 2.12 | 0.25 | 33.0 |
| 4/18/2015 11:55:52 | 40.35 | 34.85 | 591 | 2.12 | 0.26 | 32.3 |
| 4/18/2015 11:55:52 | 40.68 | 35.18 | 602 | 2.11 | 0.26 | 32.9 |
| 4/18/2015 11:55:53 | 41.01 | 35.51 | 590 | 2.12 | 0.26 | 32.3 |
| 4/18/2015 11:55:54 | 41.34 | 35.84 | 596 | 2.12 | 0.26 | 32.6 |
| 4/18/2015 11:55:54 | 41.67 | 36.17 | 611 | 2.12 | 0.26 | 33.4 |
| 4/18/2015 11:55:55 | 41.99 | 36.49 | 592 | 2.11 | 0.26 | 32.4 |
| 4/18/2015 11:55:55 | 42.32 | 36.82 | 592 | 2.13 | 0.26 | 32.4 |
| 4/18/2015 11:55:56 | 42.65 | 37.15 | 592 | 2.12 | 0.25 | 32.4 |
| 4/18/2015 11:55:57 | 42.98 | 37.48 | 601 | 2.13 | 0.25 | 32.9 |
| 4/18/2015 11:55:57 | 43.31 | 37.81 | 595 | 2.13 | 0.25 | 32.6 |
| 4/18/2015 11:55:58 | 43.64 | 38.14 | 595 | 2.13 | 0.25 | 32.6 |
| 4/18/2015 11:55:58 | 43.96 | 38.46 | 585 | 2.13 | 0.25 | 32.0 |
| 4/18/2015 11:55:59 | 44.29 | 38.79 | 585 | 2.13 | 0.25 | 32.0 |
| 4/18/2015 11:55:59 | 44.62 | 39.12 | 603 | 2.13 | 0.25 | 33.0 |
| 4/18/2015 11:56:00 | 44.95 | 39.45 | 595 | 2.13 | 0.25 | 32.5 |
| 4/18/2015 11:56:01 | 45.28 | 39.78 | 597 | 2.12 | 0.25 | 32.6 |
| 4/18/2015 11:56:02 | 45.60 | 40.10 | 597 | 2.12 | 0.25 | 32.6 |
| 4/18/2015 11:56:02 | 45.93 | 40.43 | 599 | 2.12 | 0.25 | 32.7 |
| 4/18/2015 11:56:03 | 46.26 | 40.76 | 599 | 2.12 | 0.25 | 32.7 |
| 4/18/2015 11:56:03 | 46.59 | 41.09 | 596 | 2.12 | 0.26 | 32.6 |
| 4/18/2015 11:56:04 | 46.92 | 41.42 | 599 | 2.11 | 0.26 | 32.7 |
| 4/18/2015 11:56:04 | 47.24 | 41.74 | 599 | 2.12 | 0.25 | 32.7 |
| 4/18/2015 11:56:05 | 47.57 | 42.07 | 589 | 2.13 | 0.25 | 32.2 |
| 4/18/2015 11:56:06 | 47.90 | 42.40 | 589 | 2.21 | 0.26 | 32.2 |
| 4/18/2015 11:56:06 | 48.23 | 42.73 | 573 | 2.14 | 0.26 | 31.3 |
| 4/18/2015 11:56:07 | 48.56 | 43.06 | 576 | 2.10 | 0.26 | 31.5 |
| 4/18/2015 11:56:08 | 48.88 | 43.38 | 550 | 2.13 | 0.26 | 30.1 |
| 4/18/2015 11:56:08 | 49.21 | 43.71 | 550 | 2.12 | 0.26 | 30.1 |
| 4/18/2015 11:56:09 | 49.54 | 44.04 | 573 | 2.12 | 0.26 | 31.3 |
| 4/18/2015 11:56:09 | 49.87 | 44.37 | 596 | 2.13 | 0.26 | 32.6 |
| 4/18/2015 11:56:10 | 50.20 | 44.70 | 589 | 2.12 | 0.26 | 32.2 |
| 4/18/2015 11:56:10 | 50.53 | 45.03 | 598 | 2.14 | 0.26 | 32.7 |
| 4/18/2015 11:57:29 | 50.85 | 45.35 | 23 | 2.29 | 1.42 | 1.3 |
| 4/18/2015 11:57:39 | 51.18 | 45.68 | 4 | 2.21 | 0.95 | 0.2 |
| 4/18/2015 11:57:40 | 51.51 | 46.01 | 103 | 2.22 | 1.01 | 5.6 |
| 4/18/2015 11:57:41 | 51.84 | 46.34 | 263 | 2.24 | 1.13 | 14.4 |
| 4/18/2015 11:57:42 | 52.17 | 46.67 | 267 | 2.25 | 1.11 | 14.6 |
| 4/18/2015 11:57:43 | 52.49 | 46.99 | 283 | 2.24 | 1.06 | 15.5 |
| 4/18/2015 11:57:51 | 52.82 | 47.32 | 0 | 2.23 | 0.98 | 0.0 |
| 4/18/2015 11:58:00 | 53.15 | 47.65 | 49 | 2.28 | 1.20 | 2.7 |
| 4/18/2015 11:58:03 | 53.48 | 47.98 | 116 | 2.27 | 1.14 | 6.3 |
| 4/18/2015 11:58:07 | 53.81 | 48.31 | 110 | 2.31 | 1.28 | 6.0 |
| 4/18/2015 11:58:10 | 54.13 | 48.63 | 109 | 2.31 | 1.20 | 6.0 |
| 4/18/2015 11:58:14 | 54.46 | 48.96 | 99 | 2.31 | 1.21 | 5.4 |
| 4/18/2015 11:58:19 | 54.79 | 49.29 | 60 | 2.32 | 1.32 | 3.3 |
| 4/18/2015 11:58:24 | 55.12 | 49.62 | 72 | 2.34 | 1.32 | 3.9 |
| 4/18/2015 11:58:29 | 55.45 | 49.95 | 84 | 2.33 | 1.33 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 11:58:34 | 55.77 | 50.27 | 63 | 2.34 | 1.31 | 3.4 |
| 4/18/2015 | 11:58:39 | 56.10 | 50.60 | 87 | 2.33 | 1.36 | 4.7 |
| 4/18/2015 | 11:59:17 | 56.43 | 50.93 | 74 | 2.23 | 0.98 | 4.1 |
| 4/18/2015 | 11:59:20 | 56.76 | 51.26 | 150 | 2.25 | 1.07 | 8.2 |
| 4/18/2015 | 11:59:24 | 57.09 | 51.59 | 75 | 2.25 | 1.13 | 4.1 |
| 4/18/2015 | 11:59:40 | 57.41 | 51.91 | 28 | 2.25 | 1.14 | 1.5 |
| 4/18/2015 | 11:59:46 | 57.74 | 52.24 | 43 | 2.27 | 1.15 | 2.4 |
| 4/18/2015 | 11:59:53 | 58.07 | 52.57 | 52 | 2.28 | 1.17 | 2.8 |
| 4/18/2015 | 12:00:01 | 58.40 | 52.90 | 55 | 2.28 | 1.14 | 3.0 |
| 4/18/2015 | 12:00:07 | 58.73 | 53.23 | 55 | 2.27 | 1.17 | 3.0 |
| 4/18/2015 | 12:00:16 | 59.06 | 53.56 | 41 | 2.27 | 1.17 | 2.2 |
| 4/18/2015 | 12:00:24 | 59.38 | 53.88 | 46 | 2.29 | 1.20 | 2.5 |
| 4/18/2015 | 12:00:30 | 59.71 | 54.21 | 61 | 2.28 | 1.15 | 3.3 |
| 4/18/2015 | 12:00:38 | 60.04 | 54.54 | 35 | 2.27 | 1.17 | 1.9 |
| 4/18/2015 | 12:00:39 | 60.08 | 54.58 | 34 | 2.28 | 1.22 | 1.9 |

## C1002 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 11:54:10

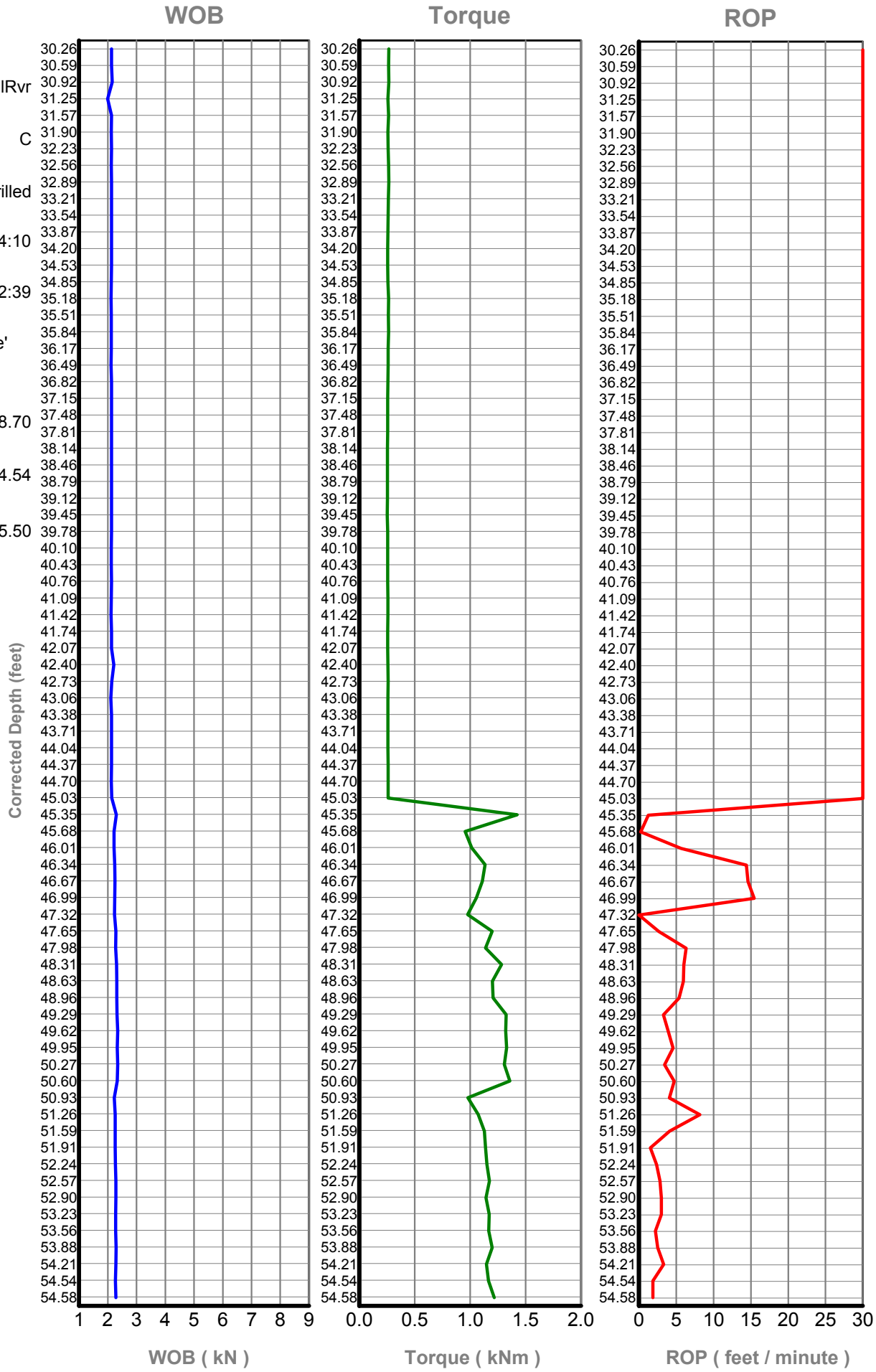
**End Date:**
4/18/2015 12:02:39

**Operator Note:**
'5.5 5.1 c Auto Complete'

**Northing:**
371,238.70

**Easting:**
258,594.54

**Tide (feet):**
5.50



## Hole: C1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 11:29:10 | 35.11 | 30.11 | 1,086 | 0.27 | 0.33 | 59.4 |
| 4/18/2015 11:29:10 | 35.43 | 30.43 | 1,083 | 0.31 | 0.33 | 59.2 |
| 4/18/2015 11:29:11 | 35.76 | 30.76 | 1,083 | 0.31 | 0.33 | 59.2 |
| 4/18/2015 11:29:11 | 36.09 | 31.09 | 1,091 | 0.29 | 0.33 | 59.7 |
| 4/18/2015 11:29:12 | 36.42 | 31.42 | 1,091 | 0.29 | 0.33 | 59.7 |
| 4/18/2015 11:29:12 | 36.75 | 31.75 | 1,060 | 0.28 | 0.34 | 57.9 |
| 4/18/2015 11:29:12 | 37.07 | 32.07 | 1,103 | 0.27 | 0.33 | 60.3 |
| 4/18/2015 11:29:13 | 37.40 | 32.40 | 1,103 | 0.27 | 0.33 | 60.3 |
| 4/18/2015 11:29:13 | 37.73 | 32.73 | 1,086 | 0.29 | 0.33 | 59.4 |
| 4/18/2015 11:29:13 | 38.06 | 33.06 | 1,065 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 11:29:14 | 38.39 | 33.39 | 1,065 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 11:29:14 | 38.71 | 33.71 | 1,065 | 0.27 | 0.33 | 58.2 |
| 4/18/2015 11:29:14 | 39.04 | 34.04 | 1,065 | 0.27 | 0.33 | 58.2 |
| 4/18/2015 11:29:14 | 39.37 | 34.37 | 1,057 | 0.27 | 0.34 | 57.8 |
| 4/18/2015 11:29:15 | 39.70 | 34.70 | 1,075 | 0.27 | 0.33 | 58.8 |
| 4/18/2015 11:29:15 | 40.03 | 35.03 | 1,075 | 0.27 | 0.33 | 58.8 |
| 4/18/2015 11:29:15 | 40.35 | 35.35 | 1,075 | 0.27 | 0.33 | 58.8 |
| 4/18/2015 11:29:16 | 40.68 | 35.68 | 1,081 | 0.27 | 0.33 | 59.1 |
| 4/18/2015 11:29:16 | 41.01 | 36.01 | 1,081 | 0.27 | 0.33 | 59.1 |
| 4/18/2015 11:29:16 | 41.34 | 36.34 | 1,083 | 0.27 | 0.34 | 59.2 |
| 4/18/2015 11:29:17 | 41.67 | 36.67 | 1,106 | 0.27 | 0.33 | 60.5 |
| 4/18/2015 11:29:17 | 41.99 | 36.99 | 1,106 | 0.27 | 0.33 | 60.5 |
| 4/18/2015 11:29:17 | 42.32 | 37.32 | 1,106 | 0.27 | 0.34 | 60.5 |
| 4/18/2015 11:29:18 | 42.65 | 37.65 | 1,106 | 0.27 | 0.34 | 60.5 |
| 4/18/2015 11:29:18 | 42.98 | 37.98 | 1,104 | 0.27 | 0.34 | 60.3 |
| 4/18/2015 11:29:18 | 43.31 | 38.31 | 1,072 | 0.27 | 0.33 | 58.6 |
| 4/18/2015 11:29:19 | 43.64 | 38.64 | 1,072 | 0.27 | 0.33 | 58.6 |
| 4/18/2015 11:29:19 | 43.96 | 38.96 | 1,072 | 0.27 | 0.33 | 58.6 |
| 4/18/2015 11:29:19 | 44.29 | 39.29 | 1,055 | 0.27 | 0.34 | 57.7 |
| 4/18/2015 11:29:20 | 44.62 | 39.62 | 1,055 | 0.27 | 0.34 | 57.7 |
| 4/18/2015 11:29:20 | 44.95 | 39.95 | 1,057 | 0.27 | 0.32 | 57.8 |
| 4/18/2015 11:29:20 | 45.28 | 40.28 | 1,057 | 0.27 | 0.32 | 57.8 |
| 4/18/2015 11:29:20 | 45.60 | 40.60 | 1,057 | 0.27 | 0.33 | 57.8 |
| 4/18/2015 11:29:21 | 45.93 | 40.93 | 1,074 | 0.27 | 0.34 | 58.7 |
| 4/18/2015 11:29:22 | 46.26 | 41.26 | 1,074 | 0.27 | 0.34 | 58.7 |
| 4/18/2015 11:29:21 | 46.59 | 41.59 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:22 | 46.92 | 41.92 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:23 | 47.24 | 42.24 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:23 | 47.57 | 42.57 | 1,083 | 0.27 | 0.33 | 59.2 |
| 4/18/2015 11:29:23 | 47.90 | 42.90 | 1,093 | 0.28 | 0.33 | 59.8 |
| 4/18/2015 11:29:24 | 48.23 | 43.23 | 1,093 | 0.28 | 0.33 | 59.8 |
| 4/18/2015 11:29:24 | 48.56 | 43.56 | 1,085 | 0.27 | 0.34 | 59.3 |
| 4/18/2015 11:29:24 | 48.88 | 43.88 | 1,085 | 0.27 | 0.34 | 59.3 |
| 4/18/2015 11:29:24 | 49.21 | 44.21 | 1,065 | 0.27 | 0.33 | 58.2 |
| 4/18/2015 11:29:25 | 49.54 | 44.54 | 1,065 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 11:29:25 | 49.87 | 44.87 | 1,065 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 11:29:25 | 50.20 | 45.20 | 1,088 | 0.27 | 0.32 | 59.5 |
| 4/18/2015 11:29:26 | 50.53 | 45.53 | 1,074 | 0.27 | 0.34 | 58.7 |
| 4/18/2015 11:29:26 | 50.85 | 45.85 | 1,074 | 0.27 | 0.34 | 58.7 |
| 4/18/2015 11:29:26 | 51.18 | 46.18 | 1,059 | 0.27 | 0.33 | 57.9 |
| 4/18/2015 11:29:27 | 51.51 | 46.51 | 1,059 | 0.25 | 0.34 | 57.9 |
| 4/18/2015 11:29:27 | 51.84 | 46.84 | 1,059 | 0.25 | 0.34 | 57.9 |
| 4/18/2015 11:29:27 | 52.17 | 47.17 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:28 | 52.49 | 47.49 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:28 | 52.82 | 47.82 | 1,062 | 0.27 | 0.34 | 58.1 |
| 4/18/2015 11:29:28 | 53.15 | 48.15 | 1,070 | 0.25 | 0.40 | 58.5 |
| 4/18/2015 11:29:39 | 53.48 | 48.48 | 0 | 1.94 | 0.36 | 0.0 |
| 4/18/2015 11:29:40 | 53.81 | 48.81 | 87 | 2.08 | 0.37 | 4.7 |
| 4/18/2015 11:29:41 | 54.13 | 49.13 | 240 | 2.63 | 0.39 | 13.1 |
| 4/18/2015 11:29:42 | 54.46 | 49.46 | 393 | 2.33 | 0.39 | 21.5 |
| 4/18/2015 11:29:45 | 54.79 | 49.79 | 213 | 4.05 | 0.43 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 11:29:46 | 55.12 | 50.12 | 167 | 3.66 | 0.42 | 9.1 |
| 4/18/2015 | 11:29:48 | 55.45 | 50.45 | 167 | 5.40 | 0.41 | 9.1 |
| 4/18/2015 | 11:29:49 | 55.77 | 50.77 | 177 | 2.99 | 0.38 | 9.7 |
| 4/18/2015 | 11:29:50 | 56.10 | 51.10 | 209 | 5.25 | 0.42 | 11.4 |
| 4/18/2015 | 11:30:41 | 56.43 | 51.43 | 95 | 3.09 | 0.38 | 5.2 |
| 4/18/2015 | 11:30:42 | 56.76 | 51.76 | 174 | 2.69 | 0.40 | 9.5 |
| 4/18/2015 | 11:30:43 | 57.09 | 52.09 | 259 | 4.37 | 0.40 | 14.2 |
| 4/18/2015 | 11:30:44 | 57.41 | 52.41 | 352 | 2.85 | 0.39 | 19.3 |
| 4/18/2015 | 11:30:46 | 57.74 | 52.74 | 251 | 2.93 | 0.40 | 13.7 |
| 4/18/2015 | 11:30:55 | 58.07 | 53.07 | 69 | 3.06 | 0.40 | 3.8 |
| 4/18/2015 | 11:31:00 | 58.40 | 53.40 | 81 | 3.29 | 0.41 | 4.4 |
| 4/18/2015 | 11:31:06 | 58.73 | 53.73 | 52 | 3.23 | 0.42 | 2.8 |
| 4/18/2015 | 11:31:13 | 59.06 | 54.06 | 46 | 3.06 | 0.41 | 2.5 |
| 4/18/2015 | 11:31:23 | 59.38 | 54.38 | 38 | 3.20 | 0.42 | 2.1 |
| 4/18/2015 | 11:31:32 | 59.71 | 54.71 | 52 | 3.33 | 0.41 | 2.9 |
| 4/18/2015 | 11:31:36 | 59.86 | 54.86 | 23 | 4.87 | 0.42 | 1.3 |

## C1003 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 11:27:19

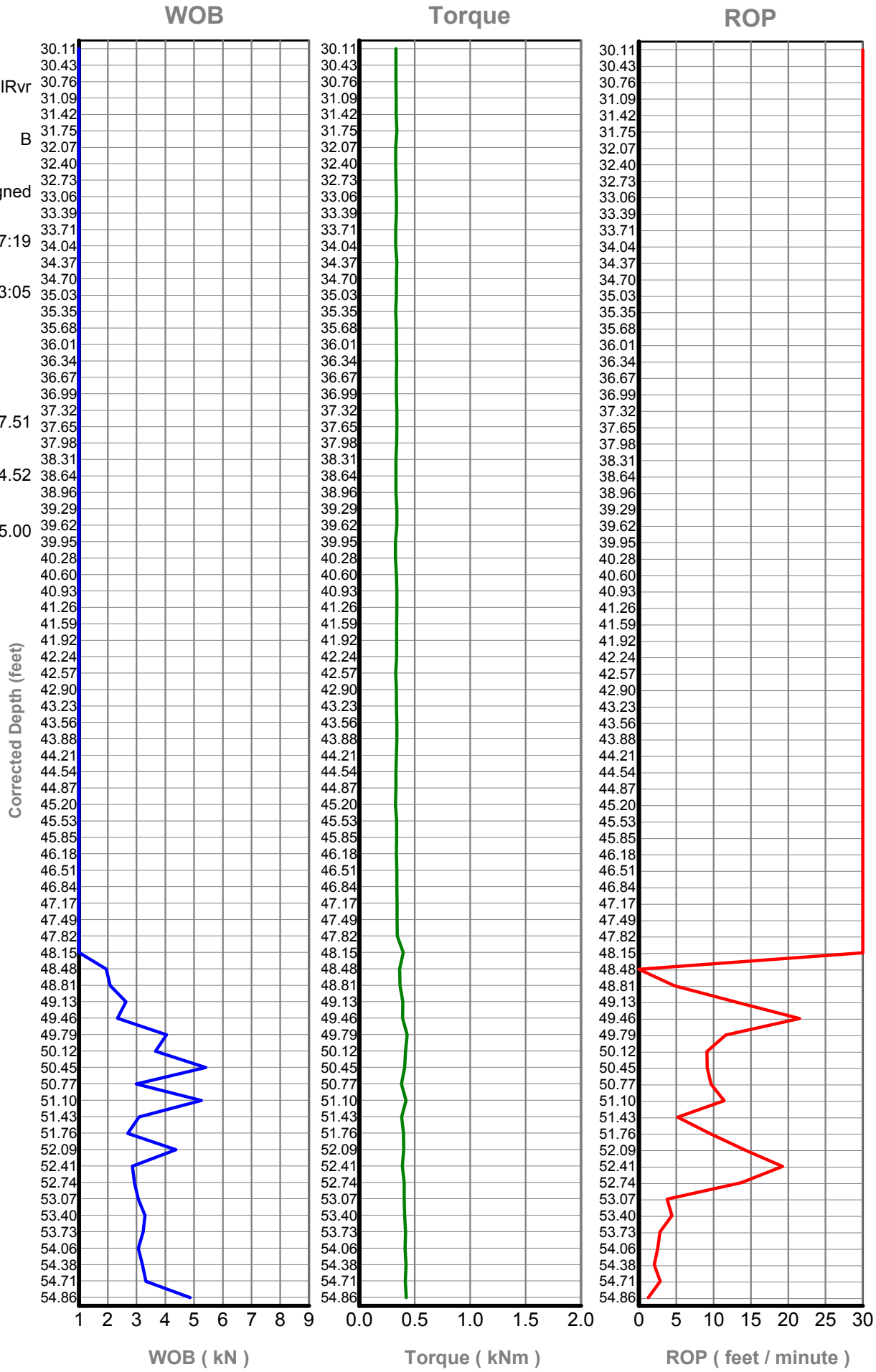
**End Date:**
4/18/2015 11:33:05

**Operator Note:**
'5 4.9 b Rock @ 58.5"

**Northing:**
370,977.51

**Easting:**
258,234.52

**Tide (feet):**
5.00



## Hole: C1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 11:22:37 | 35.11 | 30.31 | 1,039 | 0.31 | 0.34 | 56.8 |
| 4/18/2015 11:22:37 | 35.43 | 30.63 | 1,039 | 0.31 | 0.34 | 56.8 |
| 4/18/2015 11:22:37 | 35.76 | 30.96 | 1,056 | 0.33 | 0.33 | 57.8 |
| 4/18/2015 11:22:38 | 36.09 | 31.29 | 1,041 | 0.34 | 0.34 | 56.9 |
| 4/18/2015 11:22:38 | 36.42 | 31.62 | 1,041 | 0.34 | 0.34 | 56.9 |
| 4/18/2015 11:22:38 | 36.75 | 31.95 | 1,043 | 0.32 | 0.34 | 57.1 |
| 4/18/2015 11:22:39 | 37.07 | 32.27 | 1,041 | 0.05 | 0.34 | 56.9 |
| 4/18/2015 11:22:39 | 37.40 | 32.60 | 1,041 | 0.05 | 0.34 | 56.9 |
| 4/18/2015 11:22:39 | 37.73 | 32.93 | 1,038 | 0.33 | 0.34 | 56.7 |
| 4/18/2015 11:22:40 | 38.06 | 33.26 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/18/2015 11:22:40 | 38.39 | 33.59 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/18/2015 11:22:40 | 38.71 | 33.91 | 1,038 | 0.32 | 0.34 | 56.7 |
| 4/18/2015 11:22:41 | 39.04 | 34.24 | 1,034 | 0.31 | 0.34 | 56.6 |
| 4/18/2015 11:22:41 | 39.37 | 34.57 | 1,034 | 0.31 | 0.34 | 56.6 |
| 4/18/2015 11:22:43 | 39.70 | 34.90 | 483 | 0.26 | 0.33 | 26.4 |
| 4/18/2015 11:22:43 | 40.03 | 35.23 | 483 | 0.26 | 0.33 | 26.4 |
| 4/18/2015 11:22:43 | 40.35 | 35.55 | 492 | 0.26 | 0.34 | 26.9 |
| 4/18/2015 11:22:44 | 40.68 | 35.88 | 492 | 0.26 | 0.34 | 26.9 |
| 4/18/2015 11:22:44 | 41.01 | 36.21 | 500 | 0.26 | 0.33 | 27.4 |
| 4/18/2015 11:22:44 | 41.34 | 36.54 | 692 | 0.26 | 0.34 | 37.8 |
| 4/18/2015 11:22:45 | 41.67 | 36.87 | 692 | 0.26 | 0.34 | 37.8 |
| 4/18/2015 11:22:45 | 41.99 | 37.19 | 692 | 0.26 | 0.33 | 37.8 |
| 4/18/2015 11:22:45 | 42.32 | 37.52 | 915 | 0.26 | 0.34 | 50.0 |
| 4/18/2015 11:22:46 | 42.65 | 37.85 | 915 | 0.26 | 0.34 | 50.0 |
| 4/18/2015 11:22:46 | 42.98 | 38.18 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 11:22:47 | 43.31 | 38.51 | 1,058 | 0.26 | 0.34 | 57.8 |
| 4/18/2015 11:22:47 | 43.64 | 38.84 | 1,058 | 0.26 | 0.34 | 57.8 |
| 4/18/2015 11:22:47 | 43.96 | 39.16 | 1,055 | 0.26 | 0.33 | 57.7 |
| 4/18/2015 11:22:48 | 44.29 | 39.49 | 1,065 | 0.26 | 0.33 | 58.3 |
| 4/18/2015 11:22:48 | 44.62 | 39.82 | 1,065 | 0.26 | 0.33 | 58.3 |
| 4/18/2015 11:22:48 | 44.95 | 40.15 | 1,065 | 0.26 | 0.34 | 58.3 |
| 4/18/2015 11:22:49 | 45.28 | 40.48 | 1,065 | 0.26 | 0.34 | 58.3 |
| 4/18/2015 11:22:49 | 45.60 | 40.80 | 1,067 | 0.26 | 0.33 | 58.3 |
| 4/18/2015 11:22:49 | 45.93 | 41.13 | 1,061 | 0.26 | 0.34 | 58.0 |
| 4/18/2015 11:22:50 | 46.26 | 41.46 | 1,061 | 0.26 | 0.34 | 58.0 |
| 4/18/2015 11:22:50 | 46.59 | 41.79 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 11:22:50 | 46.92 | 42.12 | 1,070 | 0.26 | 0.34 | 58.5 |
| 4/18/2015 11:22:51 | 47.24 | 42.44 | 1,070 | 0.26 | 0.34 | 58.5 |
| 4/18/2015 11:22:51 | 47.57 | 42.77 | 1,079 | 0.30 | 0.34 | 59.0 |
| 4/18/2015 11:22:51 | 47.90 | 43.10 | 1,063 | 0.24 | 0.33 | 58.2 |
| 4/18/2015 11:22:52 | 48.23 | 43.43 | 1,063 | 0.24 | 0.33 | 58.2 |
| 4/18/2015 11:22:52 | 48.56 | 43.76 | 1,072 | 0.26 | 0.33 | 58.6 |
| 4/18/2015 11:22:52 | 48.88 | 44.08 | 1,072 | 0.26 | 0.33 | 58.6 |
| 4/18/2015 11:22:52 | 49.21 | 44.41 | 1,070 | 0.26 | 0.34 | 58.5 |
| 4/18/2015 11:22:53 | 49.54 | 44.74 | 1,070 | 0.26 | 0.33 | 58.5 |
| 4/18/2015 11:22:53 | 49.87 | 45.07 | 1,070 | 0.26 | 0.33 | 58.5 |
| 4/18/2015 11:22:53 | 50.20 | 45.40 | 1,064 | 0.26 | 0.34 | 58.2 |
| 4/18/2015 11:22:54 | 50.53 | 45.73 | 1,063 | 0.28 | 0.34 | 58.1 |
| 4/18/2015 11:22:54 | 50.85 | 46.05 | 1,063 | 0.28 | 0.34 | 58.1 |
| 4/18/2015 11:23:09 | 51.18 | 46.38 | 56 | 4.38 | 0.42 | 3.1 |
| 4/18/2015 11:23:12 | 51.51 | 46.71 | 90 | 3.88 | 0.40 | 4.9 |
| 4/18/2015 11:23:15 | 51.84 | 47.04 | 122 | 2.94 | 0.39 | 6.7 |
| 4/18/2015 11:23:18 | 52.17 | 47.37 | 127 | 2.93 | 0.41 | 6.9 |
| 4/18/2015 11:23:20 | 52.49 | 47.69 | 107 | 3.02 | 0.39 | 5.8 |
| 4/18/2015 11:23:22 | 52.82 | 48.02 | 213 | 3.37 | 0.40 | 11.7 |
| 4/18/2015 11:23:23 | 53.15 | 48.35 | 218 | 3.79 | 0.41 | 11.9 |
| 4/18/2015 11:23:25 | 53.48 | 48.68 | 184 | 3.56 | 0.42 | 10.0 |
| 4/18/2015 11:23:28 | 53.81 | 49.01 | 137 | 3.95 | 0.41 | 7.5 |
| 4/18/2015 11:23:30 | 54.13 | 49.33 | 189 | 4.02 | 0.41 | 10.3 |
| 4/18/2015 11:23:32 | 54.46 | 49.66 | 205 | 3.50 | 0.41 | 11.2 |
| 4/18/2015 11:23:34 | 54.79 | 49.99 | 146 | 3.01 | 0.41 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 11:23:37 | 55.12 | 50.32 | 106 | 3.19 | 0.41 | 5.8 |
| 4/18/2015 | 11:23:58 | 55.45 | 50.65 | 0 | 3.40 | 0.40 | 0.0 |
| 4/18/2015 | 11:24:06 | 55.77 | 50.97 | 53 | 2.84 | 0.41 | 2.9 |
| 4/18/2015 | 11:24:12 | 56.10 | 51.30 | 67 | 3.12 | 0.40 | 3.7 |
| 4/18/2015 | 11:24:16 | 56.43 | 51.63 | 87 | 3.00 | 0.41 | 4.8 |
| 4/18/2015 | 11:24:21 | 56.76 | 51.96 | 55 | 3.03 | 0.42 | 3.0 |
| 4/18/2015 | 11:24:25 | 57.09 | 52.29 | 90 | 3.26 | 0.40 | 4.9 |
| 4/18/2015 | 11:24:29 | 57.41 | 52.61 | 98 | 2.73 | 0.41 | 5.4 |
| 4/18/2015 | 11:24:34 | 57.74 | 52.94 | 81 | 3.43 | 0.41 | 4.4 |
| 4/18/2015 | 11:24:37 | 58.07 | 53.27 | 100 | 2.93 | 0.41 | 5.5 |
| 4/18/2015 | 11:24:42 | 58.40 | 53.60 | 93 | 3.07 | 0.40 | 5.1 |
| 4/18/2015 | 11:24:44 | 58.73 | 53.93 | 131 | 3.59 | 0.41 | 7.2 |
| 4/18/2015 | 11:24:48 | 59.06 | 54.26 | 79 | 3.24 | 0.41 | 4.3 |
| 4/18/2015 | 11:24:53 | 59.38 | 54.58 | 95 | 2.88 | 0.41 | 5.2 |
| 4/18/2015 | 11:24:57 | 59.68 | 54.88 | 71 | 2.84 | 0.42 | 3.9 |

## C1004 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 11:20:49

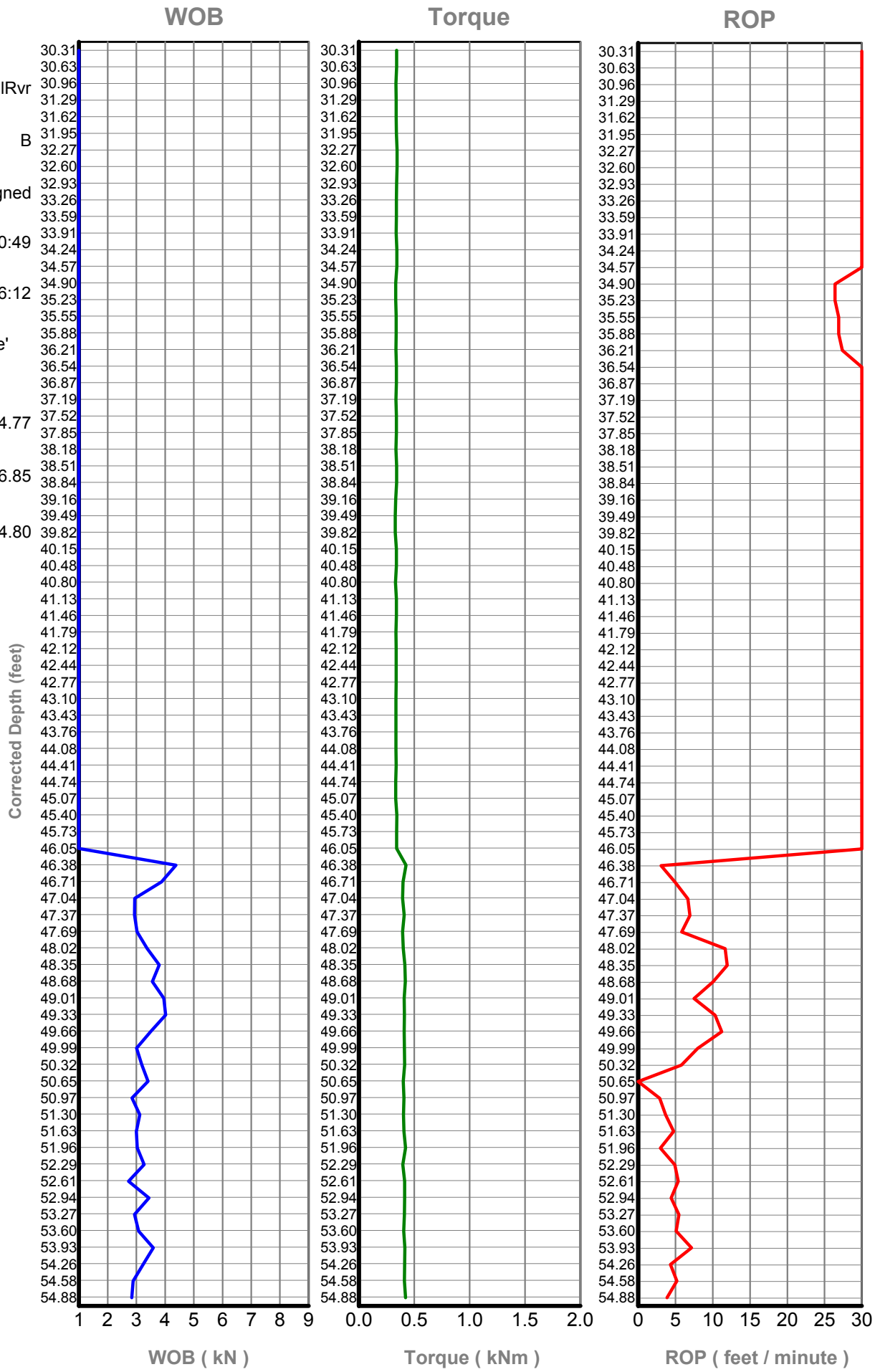
**End Date:**
4/18/2015 11:26:12

**Operator Note:**
'4.8 4.7 b Auto Complete'

**Northing:**
371,004.77

**Easting:**
258,286.85

**Tide (feet):**
4.80



## Hole: C1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 11:27:31 | 35.11 | 30.31 | 642 | 2.10 | 0.27 | 35.1 |
| 4/18/2015 11:27:32 | 35.43 | 30.63 | 635 | 2.12 | 0.26 | 34.7 |
| 4/18/2015 11:27:32 | 35.76 | 30.96 | 633 | 2.11 | 0.26 | 34.6 |
| 4/18/2015 11:27:33 | 36.09 | 31.29 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 11:27:34 | 36.42 | 31.62 | 624 | 2.12 | 0.27 | 34.1 |
| 4/18/2015 11:27:35 | 36.75 | 31.95 | 624 | 2.11 | 0.27 | 34.1 |
| 4/18/2015 11:27:35 | 37.07 | 32.27 | 621 | 2.11 | 0.26 | 34.0 |
| 4/18/2015 11:27:36 | 37.40 | 32.60 | 621 | 2.13 | 0.26 | 34.0 |
| 4/18/2015 11:27:36 | 37.73 | 32.93 | 618 | 2.13 | 0.26 | 33.8 |
| 4/18/2015 11:27:37 | 38.06 | 33.26 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 11:27:37 | 38.39 | 33.59 | 612 | 2.11 | 0.26 | 33.4 |
| 4/18/2015 11:27:38 | 38.71 | 33.91 | 612 | 2.12 | 0.26 | 33.4 |
| 4/18/2015 11:27:38 | 39.04 | 34.24 | 615 | 2.12 | 0.26 | 33.6 |
| 4/18/2015 11:27:39 | 39.37 | 34.57 | 622 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 11:27:40 | 39.70 | 34.90 | 619 | 2.13 | 0.26 | 33.8 |
| 4/18/2015 11:27:40 | 40.03 | 35.23 | 629 | 2.12 | 0.26 | 34.4 |
| 4/18/2015 11:27:41 | 40.35 | 35.55 | 628 | 2.14 | 0.26 | 34.4 |
| 4/18/2015 11:27:41 | 40.68 | 35.88 | 621 | 2.13 | 0.26 | 34.0 |
| 4/18/2015 11:27:42 | 41.01 | 36.21 | 617 | 2.11 | 0.26 | 33.7 |
| 4/18/2015 11:27:42 | 41.34 | 36.54 | 625 | 2.02 | 0.26 | 34.2 |
| 4/18/2015 11:27:43 | 41.67 | 36.87 | 628 | 2.11 | 0.26 | 34.3 |
| 4/18/2015 11:27:44 | 41.99 | 37.19 | 628 | 2.11 | 0.26 | 34.3 |
| 4/18/2015 11:27:44 | 42.32 | 37.52 | 628 | 2.12 | 0.26 | 34.3 |
| 4/18/2015 11:27:45 | 42.65 | 37.85 | 628 | 2.12 | 0.26 | 34.4 |
| 4/18/2015 11:27:46 | 42.98 | 38.18 | 624 | 2.11 | 0.26 | 34.1 |
| 4/18/2015 11:27:46 | 43.31 | 38.51 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 11:27:47 | 43.64 | 38.84 | 624 | 2.11 | 0.26 | 34.1 |
| 4/18/2015 11:27:47 | 43.96 | 39.16 | 624 | 2.11 | 0.26 | 34.1 |
| 4/18/2015 11:27:48 | 44.29 | 39.49 | 621 | 2.13 | 0.26 | 34.0 |
| 4/18/2015 11:27:48 | 44.62 | 39.82 | 625 | 2.11 | 0.26 | 34.2 |
| 4/18/2015 11:27:49 | 44.95 | 40.15 | 621 | 2.11 | 0.26 | 34.0 |
| 4/18/2015 11:27:49 | 45.28 | 40.48 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 11:27:50 | 45.60 | 40.80 | 615 | 2.12 | 0.26 | 33.6 |
| 4/18/2015 11:27:51 | 45.93 | 41.13 | 615 | 2.12 | 0.26 | 33.6 |
| 4/18/2015 11:27:51 | 46.26 | 41.46 | 618 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 11:27:52 | 46.59 | 41.79 | 614 | 2.12 | 0.26 | 33.6 |
| 4/18/2015 11:27:52 | 46.92 | 42.12 | 618 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 11:27:53 | 47.24 | 42.44 | 625 | 2.13 | 0.25 | 34.2 |
| 4/18/2015 11:27:53 | 47.57 | 42.77 | 628 | 2.12 | 0.32 | 34.3 |
| 4/18/2015 11:27:54 | 47.90 | 43.10 | 622 | 2.11 | 0.25 | 34.0 |
| 4/18/2015 11:27:55 | 48.23 | 43.43 | 625 | 2.13 | 0.25 | 34.2 |
| 4/18/2015 11:27:55 | 48.56 | 43.76 | 622 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 11:27:56 | 48.88 | 44.08 | 625 | 2.11 | 0.25 | 34.2 |
| 4/18/2015 11:27:57 | 49.21 | 44.41 | 621 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 11:27:57 | 49.54 | 44.74 | 618 | 2.11 | 0.25 | 33.8 |
| 4/18/2015 11:27:58 | 49.87 | 45.07 | 622 | 2.10 | 0.25 | 34.0 |
| 4/18/2015 11:27:58 | 50.20 | 45.40 | 622 | 2.10 | 0.25 | 34.0 |
| 4/18/2015 11:27:59 | 50.53 | 45.73 | 619 | 2.11 | 0.25 | 33.8 |
| 4/18/2015 11:27:59 | 50.85 | 46.05 | 615 | 2.11 | 0.25 | 33.6 |
| 4/18/2015 11:28:00 | 51.18 | 46.38 | 622 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 11:28:00 | 51.51 | 46.71 | 619 | 2.12 | 0.25 | 33.8 |
| 4/18/2015 11:28:01 | 51.84 | 47.04 | 616 | 2.12 | 0.25 | 33.7 |
| 4/18/2015 11:28:01 | 52.17 | 47.37 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 11:28:02 | 52.49 | 47.69 | 618 | 2.13 | 0.25 | 33.8 |
| 4/18/2015 11:28:03 | 52.82 | 48.02 | 618 | 2.12 | 0.25 | 33.8 |
| 4/18/2015 11:28:03 | 53.15 | 48.35 | 618 | 2.16 | 0.25 | 33.8 |
| 4/18/2015 11:28:05 | 53.48 | 48.68 | 420 | 2.29 | 0.26 | 23.0 |
| 4/18/2015 11:28:45 | 53.81 | 49.01 | 71 | 2.17 | 0.85 | 3.9 |
| 4/18/2015 11:28:46 | 54.13 | 49.33 | 260 | 2.17 | 0.88 | 14.2 |
| 4/18/2015 11:28:47 | 54.46 | 49.66 | 351 | 2.17 | 0.91 | 19.2 |
| 4/18/2015 11:28:48 | 54.79 | 49.99 | 451 | 2.17 | 0.83 | 24.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 11:28:48 | 55.12 | 50.32 | 448 | 2.17 | 0.86 | 24.5 |
| 4/18/2015 | 11:28:49 | 55.45 | 50.65 | 434 | 2.18 | 0.98 | 23.7 |
| 4/18/2015 | 11:28:50 | 55.77 | 50.97 | 416 | 2.21 | 1.11 | 22.8 |
| 4/18/2015 | 11:29:00 | 56.10 | 51.30 | 0 | 2.23 | 1.06 | 0.0 |
| 4/18/2015 | 11:29:02 | 56.43 | 51.63 | 132 | 2.21 | 1.01 | 7.2 |
| 4/18/2015 | 11:29:03 | 56.76 | 51.96 | 259 | 2.21 | 0.86 | 14.1 |
| 4/18/2015 | 11:29:04 | 57.09 | 52.29 | 327 | 2.21 | 0.94 | 17.9 |
| 4/18/2015 | 11:29:05 | 57.41 | 52.61 | 337 | 2.22 | 1.00 | 18.5 |
| 4/18/2015 | 11:29:06 | 57.74 | 52.94 | 327 | 2.22 | 1.02 | 17.9 |
| 4/18/2015 | 11:29:08 | 58.07 | 53.27 | 292 | 2.23 | 1.14 | 16.0 |
| 4/18/2015 | 11:29:09 | 58.40 | 53.60 | 229 | 2.27 | 1.18 | 12.5 |
| 4/18/2015 | 11:29:13 | 58.73 | 53.93 | 98 | 2.28 | 1.25 | 5.3 |
| 4/18/2015 | 11:29:18 | 59.06 | 54.26 | 87 | 2.27 | 1.17 | 4.8 |
| 4/18/2015 | 11:29:21 | 59.38 | 54.58 | 112 | 2.25 | 1.15 | 6.1 |
| 4/18/2015 | 11:29:26 | 59.69 | 54.89 | 69 | 2.27 | 1.22 | 3.8 |

## C1005 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 11:25:53

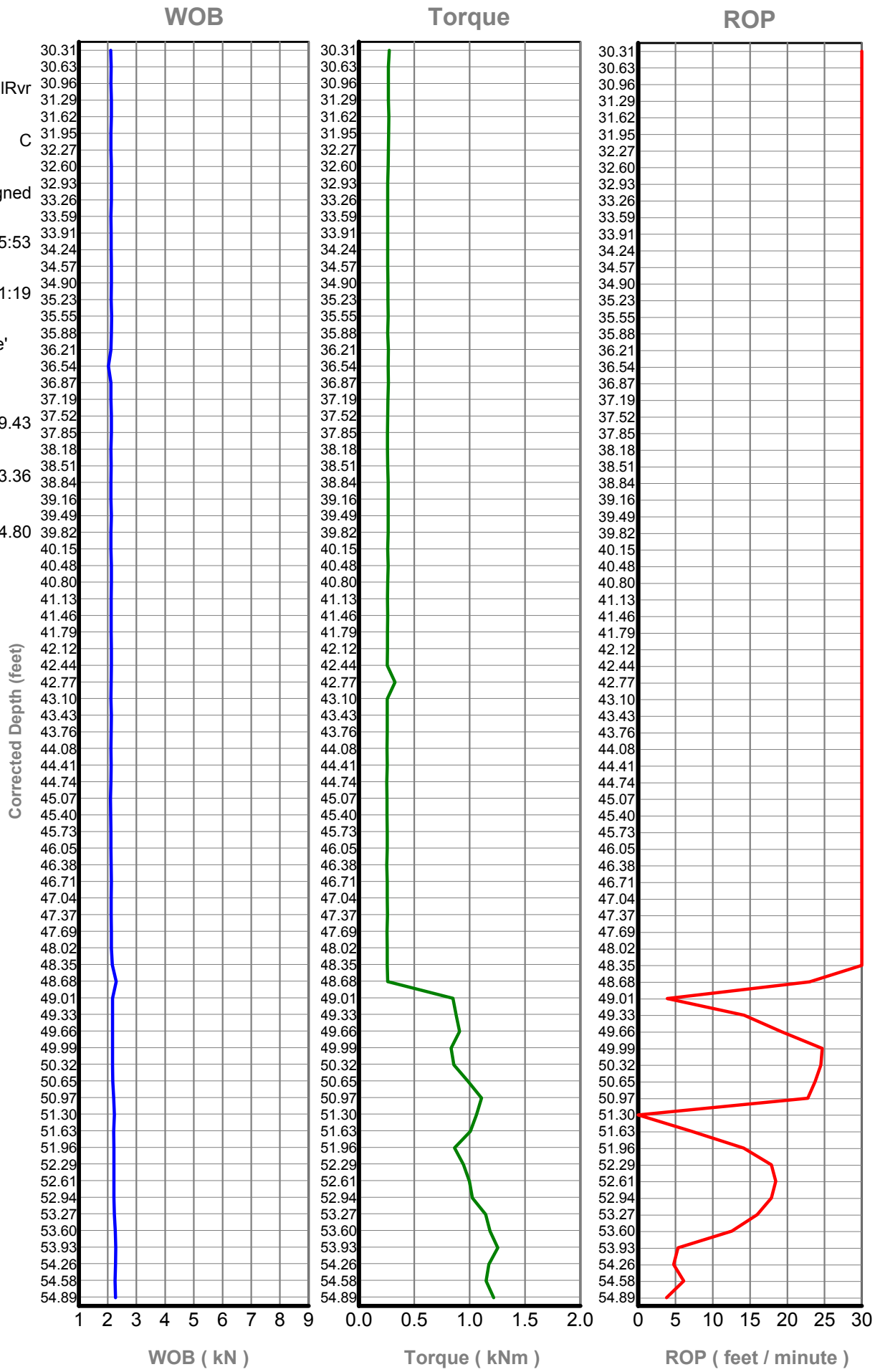
**End Date:**
4/18/2015 11:31:19

**Operator Note:**
'4.8 4.7 c Auto Complete'

**Northing:**
371,039.43

**Easting:**
258,353.36

**Tide (feet):**
4.80



## Hole: C1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 10:43:26 | 34.12 | 30.32 | 974 | 0.39 | 0.33 | 53.3 |
| 4/18/2015 10:43:27 | 34.45 | 30.65 | 974 | 0.39 | 0.34 | 53.3 |
| 4/18/2015 10:43:27 | 34.78 | 30.98 | 974 | 0.39 | 0.34 | 53.3 |
| 4/18/2015 10:43:27 | 35.11 | 31.31 | 960 | 0.39 | 0.34 | 52.5 |
| 4/18/2015 10:43:28 | 35.43 | 31.63 | 954 | 0.39 | 0.33 | 52.2 |
| 4/18/2015 10:43:28 | 35.76 | 31.96 | 954 | 0.39 | 0.33 | 52.2 |
| 4/18/2015 10:43:29 | 36.09 | 32.29 | 954 | 0.39 | 0.33 | 52.2 |
| 4/18/2015 10:43:29 | 36.42 | 32.62 | 957 | 0.38 | 0.34 | 52.3 |
| 4/18/2015 10:43:29 | 36.75 | 32.95 | 948 | 0.38 | 0.34 | 51.9 |
| 4/18/2015 10:43:30 | 37.07 | 33.27 | 948 | 0.38 | 0.34 | 51.9 |
| 4/18/2015 10:43:30 | 37.40 | 33.60 | 945 | 0.39 | 0.34 | 51.7 |
| 4/18/2015 10:43:30 | 37.73 | 33.93 | 954 | 0.38 | 0.33 | 52.2 |
| 4/18/2015 10:43:31 | 38.06 | 34.26 | 954 | 0.39 | 0.34 | 52.2 |
| 4/18/2015 10:43:31 | 38.39 | 34.59 | 954 | 0.39 | 0.34 | 52.2 |
| 4/18/2015 10:43:31 | 38.71 | 34.91 | 940 | 0.38 | 0.33 | 51.4 |
| 4/18/2015 10:43:32 | 39.04 | 35.24 | 951 | 0.38 | 0.34 | 52.0 |
| 4/18/2015 10:43:32 | 39.37 | 35.57 | 930 | 0.38 | 0.33 | 50.8 |
| 4/18/2015 10:43:33 | 39.70 | 35.90 | 930 | 0.38 | 0.33 | 50.8 |
| 4/18/2015 10:43:33 | 40.03 | 36.23 | 930 | 0.38 | 0.33 | 50.8 |
| 4/18/2015 10:43:33 | 40.35 | 36.55 | 946 | 0.37 | 0.33 | 51.7 |
| 4/18/2015 10:43:34 | 40.68 | 36.88 | 946 | 0.37 | 0.33 | 51.7 |
| 4/18/2015 10:43:34 | 41.01 | 37.21 | 949 | 0.37 | 0.34 | 51.9 |
| 4/18/2015 10:43:35 | 41.34 | 37.54 | 934 | 0.38 | 0.34 | 51.1 |
| 4/18/2015 10:43:35 | 41.67 | 37.87 | 930 | 0.37 | 0.33 | 50.9 |
| 4/18/2015 10:43:36 | 41.99 | 38.19 | 930 | 0.37 | 0.33 | 50.9 |
| 4/18/2015 10:43:50 | 42.32 | 38.52 | 0 | 0.30 | 0.35 | 0.0 |
| 4/18/2015 10:43:50 | 42.65 | 38.85 | 100 | 0.36 | 0.33 | 5.5 |
| 4/18/2015 10:43:51 | 42.98 | 39.18 | 271 | 0.36 | 0.35 | 14.8 |
| 4/18/2015 10:43:51 | 43.31 | 39.51 | 440 | 0.31 | 0.33 | 24.1 |
| 4/18/2015 10:43:52 | 43.64 | 39.84 | 625 | 0.31 | 0.34 | 34.2 |
| 4/18/2015 10:43:52 | 43.96 | 40.16 | 625 | 0.31 | 0.34 | 34.2 |
| 4/18/2015 10:43:52 | 44.29 | 40.49 | 811 | 0.35 | 0.34 | 44.3 |
| 4/18/2015 10:43:53 | 44.62 | 40.82 | 902 | 0.31 | 0.33 | 49.3 |
| 4/18/2015 10:43:53 | 44.95 | 41.15 | 902 | 0.31 | 0.33 | 49.3 |
| 4/18/2015 10:43:53 | 45.28 | 41.48 | 916 | 0.31 | 0.34 | 50.1 |
| 4/18/2015 10:43:54 | 45.60 | 41.80 | 936 | 0.31 | 0.33 | 51.2 |
| 4/18/2015 10:43:54 | 45.93 | 42.13 | 948 | 0.31 | 0.33 | 51.9 |
| 4/18/2015 10:43:55 | 46.26 | 42.46 | 948 | 0.31 | 0.33 | 51.9 |
| 4/18/2015 10:43:55 | 46.59 | 42.79 | 954 | 0.31 | 0.34 | 52.2 |
| 4/18/2015 10:43:56 | 46.92 | 43.12 | 948 | 0.31 | 0.34 | 51.9 |
| 4/18/2015 10:43:56 | 47.24 | 43.44 | 948 | 0.31 | 0.34 | 51.9 |
| 4/18/2015 10:43:56 | 47.57 | 43.77 | 957 | 0.31 | 0.33 | 52.3 |
| 4/18/2015 10:43:57 | 47.90 | 44.10 | 957 | 0.31 | 0.33 | 52.3 |
| 4/18/2015 10:43:57 | 48.23 | 44.43 | 957 | 0.31 | 0.34 | 52.3 |
| 4/18/2015 10:43:58 | 48.56 | 44.76 | 957 | 0.31 | 0.34 | 52.3 |
| 4/18/2015 10:43:58 | 48.88 | 45.08 | 952 | 0.31 | 0.34 | 52.0 |
| 4/18/2015 10:43:58 | 49.21 | 45.41 | 960 | 0.31 | 0.33 | 52.5 |
| 4/18/2015 10:43:59 | 49.54 | 45.74 | 960 | 0.31 | 0.33 | 52.5 |
| 4/18/2015 10:43:59 | 49.87 | 46.07 | 960 | 0.31 | 0.33 | 52.5 |
| 4/18/2015 10:43:59 | 50.20 | 46.40 | 963 | 0.31 | 0.34 | 52.7 |
| 4/18/2015 10:44:00 | 50.53 | 46.73 | 957 | 0.31 | 0.34 | 52.3 |
| 4/18/2015 10:44:00 | 50.85 | 47.05 | 957 | 0.31 | 0.34 | 52.3 |
| 4/18/2015 10:44:00 | 51.18 | 47.38 | 971 | 0.31 | 0.33 | 53.1 |
| 4/18/2015 10:44:01 | 51.51 | 47.71 | 966 | 0.31 | 0.33 | 52.8 |
| 4/18/2015 10:44:01 | 51.84 | 48.04 | 966 | 0.31 | 0.33 | 52.8 |
| 4/18/2015 10:44:01 | 52.17 | 48.37 | 966 | 0.31 | 0.34 | 52.8 |
| 4/18/2015 10:44:02 | 52.49 | 48.69 | 966 | 0.31 | 0.33 | 52.8 |
| 4/18/2015 10:44:02 | 52.82 | 49.02 | 963 | 0.29 | 0.35 | 52.6 |
| 4/18/2015 10:44:03 | 53.15 | 49.35 | 963 | 0.29 | 0.35 | 52.6 |
| 4/18/2015 10:44:03 | 53.48 | 49.68 | 942 | 0.31 | 0.34 | 51.5 |
| 4/18/2015 10:44:03 | 53.81 | 50.01 | 919 | 0.30 | 0.35 | 50.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 10:44:04 | 54.13 | 50.33 | 891 | 0.30 | 0.35 | 48.7 |
| 4/18/2015 | 10:44:04 | 54.46 | 50.66 | 867 | 0.31 | 0.35 | 47.4 |
| 4/18/2015 | 10:44:05 | 54.79 | 50.99 | 836 | 0.31 | 0.35 | 45.7 |
| 4/18/2015 | 10:44:05 | 55.12 | 51.32 | 836 | 0.31 | 0.35 | 45.7 |
| 4/18/2015 | 10:44:05 | 55.45 | 51.65 | 812 | 0.31 | 0.35 | 44.4 |
| 4/18/2015 | 10:44:06 | 55.77 | 51.97 | 798 | 0.31 | 0.35 | 43.6 |
| 4/18/2015 | 10:44:07 | 56.10 | 52.30 | 797 | 0.31 | 0.35 | 43.6 |
| 4/18/2015 | 10:44:07 | 56.43 | 52.63 | 783 | 0.31 | 0.36 | 42.8 |
| 4/18/2015 | 10:44:26 | 56.76 | 52.96 | 23 | 4.07 | 0.41 | 1.3 |
| 4/18/2015 | 10:44:27 | 57.09 | 53.29 | 137 | 3.62 | 0.37 | 7.5 |
| 4/18/2015 | 10:44:28 | 57.41 | 53.61 | 291 | 2.87 | 0.39 | 15.9 |
| 4/18/2015 | 10:44:29 | 57.74 | 53.94 | 379 | 2.95 | 0.40 | 20.7 |
| 4/18/2015 | 10:44:31 | 58.07 | 54.27 | 281 | 2.75 | 0.40 | 15.4 |
| 4/18/2015 | 10:44:33 | 58.40 | 54.60 | 174 | 2.86 | 0.41 | 9.5 |
| 4/18/2015 | 10:44:36 | 58.62 | 54.82 | 90 | 2.47 | 0.35 | 4.9 |

## C1006 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 10:42:02

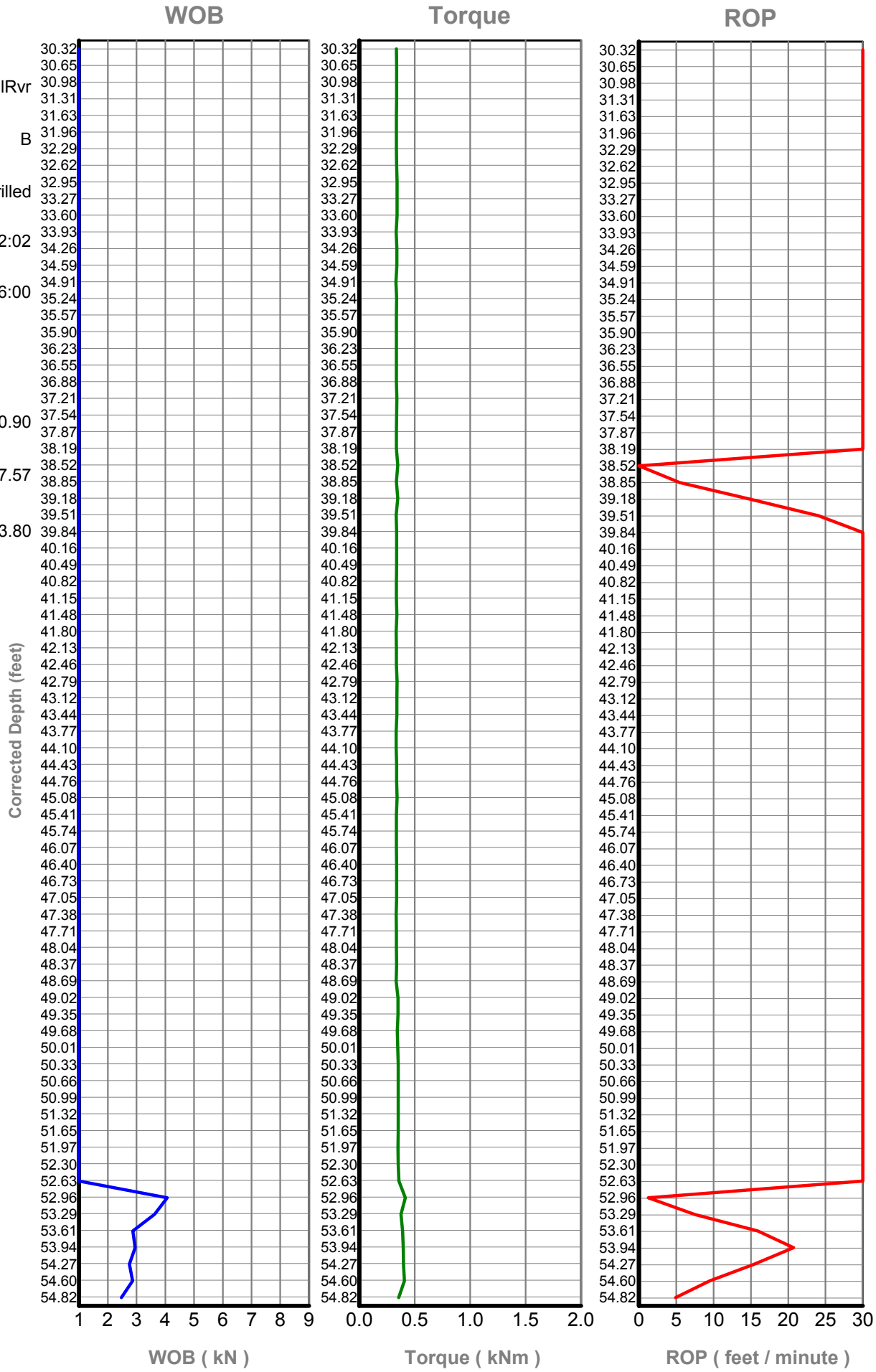
**End Date:**
4/18/2015 10:46:00

**Operator Note:**
'3.8 3.6 b No rocl No rock'

**Northing:**
370,650.90

**Easting:**
257,897.57

**Tide (feet):**
3.80



## Hole: C1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 10:49:27 | 34.12 | 30.12 | 966 | 0.36 | 0.34 | 52.8 |
| 4/18/2015 10:49:28 | 34.45 | 30.45 | 966 | 0.36 | 0.34 | 52.8 |
| 4/18/2015 10:49:28 | 34.78 | 30.78 | 960 | 0.36 | 0.33 | 52.5 |
| 4/18/2015 10:49:28 | 35.11 | 31.11 | 960 | 0.37 | 0.33 | 52.5 |
| 4/18/2015 10:49:29 | 35.43 | 31.43 | 958 | 0.37 | 0.34 | 52.4 |
| 4/18/2015 10:49:30 | 35.76 | 31.76 | 958 | 0.37 | 0.34 | 52.4 |
| 4/18/2015 10:49:30 | 36.09 | 32.09 | 955 | 0.36 | 0.34 | 52.2 |
| 4/18/2015 10:49:30 | 36.42 | 32.42 | 958 | 0.36 | 0.33 | 52.4 |
| 4/18/2015 10:49:31 | 36.75 | 32.75 | 958 | 0.36 | 0.33 | 52.4 |
| 4/18/2015 10:49:31 | 37.07 | 33.07 | 963 | 0.37 | 0.33 | 52.7 |
| 4/18/2015 10:49:31 | 37.40 | 33.40 | 957 | 0.36 | 0.33 | 52.3 |
| 4/18/2015 10:49:32 | 37.73 | 33.73 | 957 | 0.51 | 0.33 | 52.3 |
| 4/18/2015 10:49:32 | 38.06 | 34.06 | 957 | 0.51 | 0.33 | 52.3 |
| 4/18/2015 10:49:32 | 38.39 | 34.39 | 957 | 0.36 | 0.34 | 52.3 |
| 4/18/2015 10:49:33 | 38.71 | 34.71 | 954 | 0.36 | 0.33 | 52.2 |
| 4/18/2015 10:49:33 | 39.04 | 35.04 | 954 | 0.36 | 0.33 | 52.2 |
| 4/18/2015 10:49:33 | 39.37 | 35.37 | 957 | 0.36 | 0.33 | 52.3 |
| 4/18/2015 10:49:34 | 39.70 | 35.70 | 951 | 0.36 | 0.34 | 52.0 |
| 4/18/2015 10:49:34 | 40.03 | 36.03 | 957 | 0.36 | 0.34 | 52.3 |
| 4/18/2015 10:49:35 | 40.35 | 36.35 | 957 | 0.36 | 0.34 | 52.3 |
| 4/18/2015 10:49:35 | 40.68 | 36.68 | 954 | 0.35 | 0.33 | 52.2 |
| 4/18/2015 10:49:35 | 41.01 | 37.01 | 954 | 0.36 | 0.33 | 52.2 |
| 4/18/2015 10:49:36 | 41.34 | 37.34 | 954 | 0.36 | 0.33 | 52.2 |
| 4/18/2015 10:49:36 | 41.67 | 37.67 | 951 | 0.35 | 0.34 | 52.0 |
| 4/18/2015 10:49:36 | 41.99 | 37.99 | 948 | 0.30 | 0.33 | 51.8 |
| 4/18/2015 10:49:37 | 42.32 | 38.32 | 948 | 0.31 | 0.33 | 51.8 |
| 4/18/2015 10:49:38 | 42.65 | 38.65 | 948 | 0.31 | 0.33 | 51.8 |
| 4/18/2015 10:49:37 | 42.98 | 38.98 | 938 | 0.30 | 0.33 | 51.3 |
| 4/18/2015 10:49:38 | 43.31 | 39.31 | 938 | 0.29 | 0.33 | 51.3 |
| 4/18/2015 10:49:38 | 43.64 | 39.64 | 938 | 0.29 | 0.33 | 51.3 |
| 4/18/2015 10:49:38 | 43.96 | 39.96 | 955 | 0.29 | 0.33 | 52.2 |
| 4/18/2015 10:49:39 | 44.29 | 40.29 | 958 | 0.30 | 0.33 | 52.4 |
| 4/18/2015 10:49:40 | 44.62 | 40.62 | 966 | 0.29 | 0.33 | 52.8 |
| 4/18/2015 10:49:40 | 44.95 | 40.95 | 966 | 0.29 | 0.33 | 52.8 |
| 4/18/2015 10:49:40 | 45.28 | 41.28 | 967 | 0.29 | 0.33 | 52.9 |
| 4/18/2015 10:49:41 | 45.60 | 41.60 | 988 | 0.29 | 0.33 | 54.0 |
| 4/18/2015 10:49:41 | 45.93 | 41.93 | 988 | 0.29 | 0.33 | 54.0 |
| 4/18/2015 10:49:41 | 46.26 | 42.26 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:42 | 46.59 | 42.59 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:42 | 46.92 | 42.92 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:42 | 47.24 | 43.24 | 974 | 0.29 | 0.33 | 53.3 |
| 4/18/2015 10:49:43 | 47.57 | 43.57 | 983 | 0.29 | 0.33 | 53.7 |
| 4/18/2015 10:49:43 | 47.90 | 43.90 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:44 | 48.23 | 44.23 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:44 | 48.56 | 44.56 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:44 | 48.88 | 44.88 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:45 | 49.21 | 45.21 | 977 | 0.29 | 0.33 | 53.4 |
| 4/18/2015 10:49:45 | 49.54 | 45.54 | 980 | 0.29 | 0.33 | 53.6 |
| 4/18/2015 10:49:45 | 49.87 | 45.87 | 974 | 0.29 | 0.34 | 53.3 |
| 4/18/2015 10:49:46 | 50.20 | 46.20 | 974 | 0.29 | 0.34 | 53.3 |
| 4/18/2015 10:49:46 | 50.53 | 46.53 | 974 | 0.29 | 0.34 | 53.3 |
| 4/18/2015 10:49:46 | 50.85 | 46.85 | 971 | 0.29 | 0.34 | 53.1 |
| 4/18/2015 10:49:47 | 51.18 | 47.18 | 980 | 0.29 | 0.34 | 53.6 |
| 4/18/2015 10:49:47 | 51.51 | 47.51 | 980 | 0.29 | 0.34 | 53.6 |
| 4/18/2015 10:49:47 | 51.84 | 47.84 | 974 | 0.29 | 0.34 | 53.3 |
| 4/18/2015 10:49:48 | 52.17 | 48.17 | 974 | 0.29 | 0.33 | 53.3 |
| 4/18/2015 10:49:48 | 52.49 | 48.49 | 974 | 0.29 | 0.33 | 53.3 |
| 4/18/2015 10:49:48 | 52.82 | 48.82 | 971 | 0.29 | 0.33 | 53.1 |
| 4/18/2015 10:49:49 | 53.15 | 49.15 | 977 | 0.29 | 0.34 | 53.4 |
| 4/18/2015 10:49:50 | 53.48 | 49.48 | 951 | 0.29 | 0.35 | 52.0 |
| 4/18/2015 10:49:50 | 53.81 | 49.81 | 951 | 0.29 | 0.35 | 52.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 10:49:50 | 54.13 | 50.13 | 923 | 0.29 | 0.35 | 50.5 |
| 4/18/2015 | 10:49:51 | 54.46 | 50.46 | 885 | 0.29 | 0.35 | 48.4 |
| 4/18/2015 | 10:49:51 | 54.79 | 50.79 | 862 | 0.29 | 0.34 | 47.1 |
| 4/18/2015 | 10:50:02 | 55.12 | 51.12 | 0 | 1.93 | 0.34 | 0.0 |
| 4/18/2015 | 10:50:02 | 55.45 | 51.45 | 145 | 1.85 | 0.34 | 8.0 |
| 4/18/2015 | 10:50:03 | 55.77 | 51.77 | 145 | 1.85 | 0.34 | 8.0 |
| 4/18/2015 | 10:50:03 | 56.10 | 52.10 | 319 | 1.88 | 0.35 | 17.5 |
| 4/18/2015 | 10:50:03 | 56.43 | 52.43 | 485 | 1.87 | 0.34 | 26.5 |
| 4/18/2015 | 10:50:04 | 56.76 | 52.76 | 650 | 1.93 | 0.35 | 35.6 |
| 4/18/2015 | 10:50:04 | 57.09 | 53.09 | 818 | 2.88 | 0.38 | 44.8 |
| 4/18/2015 | 10:50:06 | 57.41 | 53.41 | 485 | 3.20 | 0.41 | 26.5 |
| 4/18/2015 | 10:50:10 | 57.74 | 53.74 | 75 | 4.36 | 0.40 | 4.1 |
| 4/18/2015 | 10:50:13 | 58.07 | 54.07 | 115 | 5.97 | 0.41 | 6.3 |
| 4/18/2015 | 10:50:22 | 58.40 | 54.40 | 81 | 3.72 | 0.36 | 4.4 |
| 4/18/2015 | 10:50:23 | 58.73 | 54.73 | 161 | 3.31 | 0.39 | 8.8 |
| 4/18/2015 | 10:50:24 | 59.06 | 55.06 | 299 | 3.37 | 0.39 | 16.4 |
| 4/18/2015 | 10:50:25 | 59.20 | 55.20 | 307 | 3.64 | 0.41 | 16.8 |

## C1007 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 10:47:05

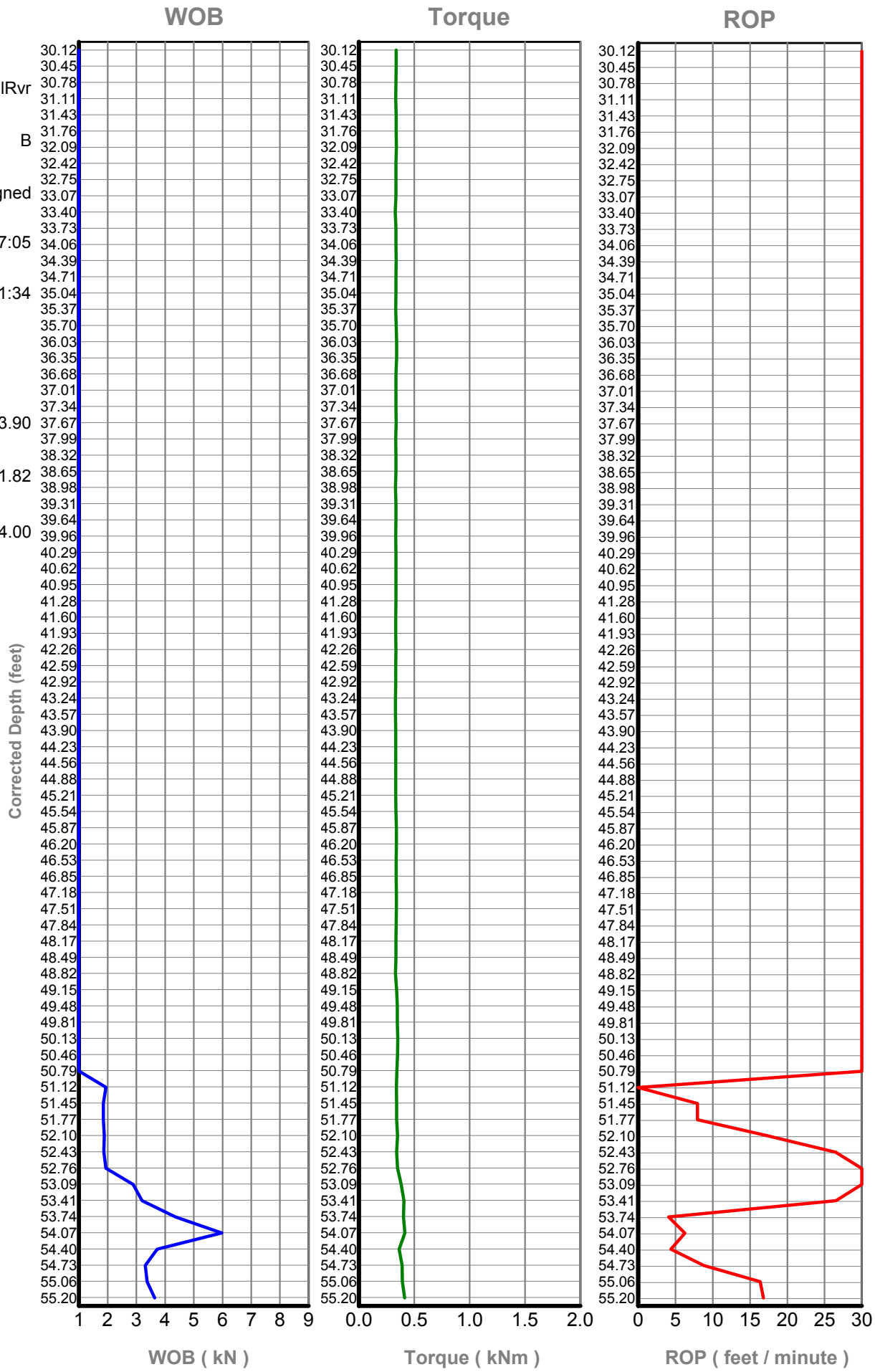
**End Date:**
4/18/2015 10:51:34

**Operator Note:**
'4 4.1 b No rock'

**Northing:**
370,673.90

**Easting:**
257,951.82

**Tide (feet):**
4.00



## Hole: C1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 10:41:14 | 34.12 | 30.32 | 633 | 2.13 | 0.27 | 34.6 |
| 4/18/2015 10:41:15 | 34.45 | 30.65 | 630 | 2.12 | 0.26 | 34.5 |
| 4/18/2015 10:41:15 | 34.78 | 30.98 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 10:41:16 | 35.11 | 31.31 | 627 | 2.12 | 0.26 | 34.3 |
| 4/18/2015 10:41:16 | 35.43 | 31.63 | 625 | 2.14 | 0.26 | 34.2 |
| 4/18/2015 10:41:17 | 35.76 | 31.96 | 625 | 2.14 | 0.26 | 34.2 |
| 4/18/2015 10:41:17 | 36.09 | 32.29 | 625 | 2.14 | 0.27 | 34.2 |
| 4/18/2015 10:41:18 | 36.42 | 32.62 | 634 | 2.12 | 0.27 | 34.7 |
| 4/18/2015 10:41:18 | 36.75 | 32.95 | 627 | 2.12 | 0.26 | 34.3 |
| 4/18/2015 10:41:19 | 37.07 | 33.27 | 631 | 2.13 | 0.27 | 34.5 |
| 4/18/2015 10:41:19 | 37.40 | 33.60 | 621 | 2.12 | 0.27 | 33.9 |
| 4/18/2015 10:41:20 | 37.73 | 33.93 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 10:41:21 | 38.06 | 34.26 | 625 | 2.13 | 0.27 | 34.2 |
| 4/18/2015 10:41:21 | 38.39 | 34.59 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 10:41:22 | 38.71 | 34.91 | 631 | 2.12 | 0.27 | 34.5 |
| 4/18/2015 10:41:22 | 39.04 | 35.24 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 10:41:23 | 39.37 | 35.57 | 628 | 2.13 | 0.26 | 34.4 |
| 4/18/2015 10:41:23 | 39.70 | 35.90 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 10:41:24 | 40.03 | 36.23 | 624 | 2.12 | 0.26 | 34.1 |
| 4/18/2015 10:41:25 | 40.35 | 36.55 | 622 | 2.10 | 0.26 | 34.0 |
| 4/18/2015 10:41:25 | 40.68 | 36.88 | 622 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 10:41:26 | 41.01 | 37.21 | 619 | 2.13 | 0.26 | 33.8 |
| 4/18/2015 10:41:27 | 41.34 | 37.54 | 616 | 2.13 | 0.26 | 33.7 |
| 4/18/2015 10:41:27 | 41.67 | 37.87 | 613 | 2.13 | 0.26 | 33.5 |
| 4/18/2015 10:41:28 | 41.99 | 38.19 | 610 | 2.13 | 0.26 | 33.4 |
| 4/18/2015 10:41:28 | 42.32 | 38.52 | 607 | 2.14 | 0.26 | 33.2 |
| 4/18/2015 10:41:29 | 42.65 | 38.85 | 601 | 2.12 | 0.26 | 32.9 |
| 4/18/2015 10:41:29 | 42.98 | 39.18 | 598 | 2.14 | 0.26 | 32.7 |
| 4/18/2015 10:41:30 | 43.31 | 39.51 | 593 | 2.18 | 0.26 | 32.4 |
| 4/18/2015 10:41:31 | 43.64 | 39.84 | 593 | 2.18 | 0.26 | 32.4 |
| 4/18/2015 10:41:31 | 43.96 | 40.16 | 589 | 2.17 | 0.26 | 32.2 |
| 4/18/2015 10:41:32 | 44.29 | 40.49 | 593 | 2.17 | 0.26 | 32.4 |
| 4/18/2015 10:41:32 | 44.62 | 40.82 | 593 | 2.18 | 0.26 | 32.4 |
| 4/18/2015 10:41:33 | 44.95 | 41.15 | 582 | 2.12 | 0.26 | 31.9 |
| 4/18/2015 10:41:34 | 45.28 | 41.48 | 587 | 2.14 | 0.26 | 32.1 |
| 4/18/2015 10:41:35 | 45.60 | 41.80 | 590 | 2.14 | 0.26 | 32.3 |
| 4/18/2015 10:41:35 | 45.93 | 42.13 | 584 | 2.14 | 0.31 | 31.9 |
| 4/18/2015 10:41:36 | 46.26 | 42.46 | 584 | 2.14 | 0.26 | 32.0 |
| 4/18/2015 10:41:36 | 46.59 | 42.79 | 588 | 2.14 | 0.26 | 32.1 |
| 4/18/2015 10:41:37 | 46.92 | 43.12 | 581 | 2.14 | 0.26 | 31.8 |
| 4/18/2015 10:41:38 | 47.24 | 43.44 | 575 | 2.14 | 0.26 | 31.5 |
| 4/18/2015 10:41:38 | 47.57 | 43.77 | 572 | 2.14 | 0.27 | 31.3 |
| 4/18/2015 10:41:39 | 47.90 | 44.10 | 572 | 2.14 | 0.26 | 31.3 |
| 4/18/2015 10:41:39 | 48.23 | 44.43 | 572 | 2.12 | 0.26 | 31.3 |
| 4/18/2015 10:41:40 | 48.56 | 44.76 | 546 | 2.16 | 0.26 | 29.9 |
| 4/18/2015 10:41:41 | 48.88 | 45.08 | 541 | 2.15 | 0.26 | 29.6 |
| 4/18/2015 10:41:41 | 49.21 | 45.41 | 529 | 2.14 | 0.25 | 28.9 |
| 4/18/2015 10:41:42 | 49.54 | 45.74 | 526 | 2.16 | 0.26 | 28.8 |
| 4/18/2015 10:41:43 | 49.87 | 46.07 | 523 | 2.16 | 0.26 | 28.6 |
| 4/18/2015 10:41:43 | 50.20 | 46.40 | 520 | 2.15 | 0.26 | 28.5 |
| 4/18/2015 10:41:44 | 50.53 | 46.73 | 520 | 2.15 | 0.26 | 28.5 |
| 4/18/2015 10:41:45 | 50.85 | 47.05 | 520 | 2.15 | 0.26 | 28.5 |
| 4/18/2015 10:41:46 | 51.18 | 47.38 | 515 | 2.16 | 0.26 | 28.1 |
| 4/18/2015 10:41:47 | 51.51 | 47.71 | 497 | 2.16 | 0.26 | 27.2 |
| 4/18/2015 10:41:47 | 51.84 | 48.04 | 492 | 2.16 | 0.25 | 26.9 |
| 4/18/2015 10:41:48 | 52.17 | 48.37 | 472 | 2.17 | 0.26 | 25.8 |
| 4/18/2015 10:41:49 | 52.49 | 48.69 | 469 | 2.17 | 0.26 | 25.6 |
| 4/18/2015 10:41:50 | 52.82 | 49.02 | 468 | 2.17 | 0.25 | 25.6 |
| 4/18/2015 10:41:50 | 53.15 | 49.35 | 465 | 2.16 | 0.25 | 25.4 |
| 4/18/2015 10:41:51 | 53.48 | 49.68 | 463 | 2.17 | 0.25 | 25.3 |
| 4/18/2015 10:41:52 | 53.81 | 50.01 | 463 | 2.17 | 0.26 | 25.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 10:41:53 | 54.13 | 50.33 | 460 | 2.17 | 0.26 | 25.1 |
| 4/18/2015 | 10:41:53 | 54.46 | 50.66 | 463 | 2.16 | 0.26 | 25.3 |
| 4/18/2015 | 10:41:54 | 54.79 | 50.99 | 463 | 2.17 | 0.26 | 25.3 |
| 4/18/2015 | 10:41:55 | 55.12 | 51.32 | 463 | 2.16 | 0.26 | 25.3 |
| 4/18/2015 | 10:41:56 | 55.45 | 51.65 | 465 | 2.16 | 0.26 | 25.5 |
| 4/18/2015 | 10:41:57 | 55.77 | 51.97 | 471 | 2.15 | 0.26 | 25.8 |
| 4/18/2015 | 10:41:57 | 56.10 | 52.30 | 471 | 2.16 | 0.26 | 25.8 |
| 4/18/2015 | 10:41:58 | 56.43 | 52.63 | 474 | 2.17 | 0.26 | 25.9 |
| 4/18/2015 | 10:43:28 | 56.76 | 52.96 | 0 | 2.13 | 1.18 | 0.0 |
| 4/18/2015 | 10:43:30 | 57.09 | 53.29 | 59 | 2.19 | 1.09 | 3.2 |
| 4/18/2015 | 10:43:31 | 57.41 | 53.61 | 175 | 2.17 | 0.96 | 9.6 |
| 4/18/2015 | 10:43:34 | 57.74 | 53.94 | 65 | 2.21 | 1.05 | 3.5 |
| 4/18/2015 | 10:43:36 | 58.07 | 54.27 | 229 | 2.27 | 1.47 | 12.5 |
| 4/18/2015 | 10:43:40 | 58.40 | 54.60 | 83 | 2.21 | 1.13 | 4.6 |
| 4/18/2015 | 10:43:41 | 58.61 | 54.81 | 162 | 2.27 | 1.25 | 8.9 |

## C1008 - Summary

**Pattern Number:**
AreaC_Additional-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 10:38:43

**End Date:**
4/18/2015 10:45:52

**Operator Note:**
'3.8 3.5 c Auto Complete'

**Northing:**
370,703.09

**Easting:**
258,020.91

**Tide (feet):**
3.80



## Hole: C1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 13:57:06 | 36.09 | 30.29 | 723 | 1.53 | 0.25 | 39.5 |
| 4/18/2015 13:57:07 | 36.42 | 30.62 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 13:57:07 | 36.75 | 30.95 | 723 | 1.52 | 0.25 | 39.5 |
| 4/18/2015 13:57:08 | 37.07 | 31.27 | 726 | 1.51 | 0.25 | 39.7 |
| 4/18/2015 13:57:08 | 37.40 | 31.60 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 13:57:09 | 37.73 | 31.93 | 718 | 1.53 | 0.26 | 39.3 |
| 4/18/2015 13:57:10 | 38.06 | 32.26 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 13:57:10 | 38.39 | 32.59 | 726 | 1.52 | 0.26 | 39.7 |
| 4/18/2015 13:57:11 | 38.71 | 32.91 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 13:57:11 | 39.04 | 33.24 | 716 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 13:57:12 | 39.37 | 33.57 | 726 | 1.54 | 0.26 | 39.7 |
| 4/18/2015 13:57:12 | 39.70 | 33.90 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 13:57:13 | 40.03 | 34.23 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 13:57:13 | 40.35 | 34.55 | 720 | 1.53 | 0.25 | 39.4 |
| 4/18/2015 13:57:13 | 40.68 | 34.88 | 718 | 1.54 | 0.26 | 39.3 |
| 4/18/2015 13:57:14 | 41.01 | 35.21 | 727 | 1.53 | 0.25 | 39.7 |
| 4/18/2015 13:57:14 | 41.34 | 35.54 | 717 | 1.52 | 0.25 | 39.2 |
| 4/18/2015 13:57:15 | 41.67 | 35.87 | 717 | 1.52 | 0.25 | 39.2 |
| 4/18/2015 13:57:15 | 41.99 | 36.19 | 717 | 1.53 | 0.25 | 39.2 |
| 4/18/2015 13:57:16 | 42.32 | 36.52 | 721 | 1.53 | 0.25 | 39.4 |
| 4/18/2015 13:57:16 | 42.65 | 36.85 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:17 | 42.98 | 37.18 | 714 | 1.53 | 0.25 | 39.0 |
| 4/18/2015 13:57:17 | 43.31 | 37.51 | 707 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:57:18 | 43.64 | 37.84 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:57:18 | 43.96 | 38.16 | 705 | 1.53 | 0.25 | 38.6 |
| 4/18/2015 13:57:19 | 44.29 | 38.49 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:57:19 | 44.62 | 38.82 | 705 | 1.52 | 0.25 | 38.6 |
| 4/18/2015 13:57:20 | 44.95 | 39.15 | 715 | 1.53 | 0.25 | 39.1 |
| 4/18/2015 13:57:21 | 45.28 | 39.48 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:21 | 45.60 | 39.80 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:22 | 45.93 | 40.13 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:22 | 46.26 | 40.46 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:23 | 46.59 | 40.79 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:57:23 | 46.92 | 41.12 | 708 | 1.52 | 0.25 | 38.7 |
| 4/18/2015 13:57:24 | 47.24 | 41.44 | 704 | 1.54 | 0.25 | 38.5 |
| 4/18/2015 13:57:24 | 47.57 | 41.77 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:25 | 47.90 | 42.10 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:25 | 48.23 | 42.43 | 708 | 1.54 | 0.25 | 38.7 |
| 4/18/2015 13:57:26 | 48.56 | 42.76 | 708 | 1.53 | 0.27 | 38.7 |
| 4/18/2015 13:57:26 | 48.88 | 43.08 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:27 | 49.21 | 43.41 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:57:27 | 49.54 | 43.74 | 708 | 1.52 | 0.25 | 38.7 |
| 4/18/2015 13:57:27 | 49.87 | 44.07 | 705 | 1.53 | 0.25 | 38.6 |
| 4/18/2015 13:57:28 | 50.20 | 44.40 | 704 | 1.53 | 0.25 | 38.5 |
| 4/18/2015 13:57:28 | 50.53 | 44.73 | 711 | 1.52 | 0.25 | 38.9 |
| 4/18/2015 13:57:29 | 50.85 | 45.05 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:57:29 | 51.18 | 45.38 | 705 | 1.52 | 0.25 | 38.6 |
| 4/18/2015 13:58:04 | 51.51 | 45.71 | 0 | 1.68 | 0.97 | 0.0 |
| 4/18/2015 13:58:05 | 51.84 | 46.04 | 48 | 1.69 | 0.94 | 2.6 |
| 4/18/2015 13:58:07 | 52.17 | 46.37 | 154 | 1.72 | 1.06 | 8.4 |
| 4/18/2015 13:58:10 | 52.49 | 46.69 | 123 | 1.72 | 1.06 | 6.8 |
| 4/18/2015 13:58:13 | 52.82 | 47.02 | 127 | 1.72 | 1.05 | 7.0 |
| 4/18/2015 13:58:16 | 53.15 | 47.35 | 128 | 1.72 | 0.97 | 7.0 |
| 4/18/2015 13:58:19 | 53.48 | 47.68 | 124 | 1.71 | 1.01 | 6.8 |
| 4/18/2015 13:58:22 | 53.81 | 48.01 | 130 | 1.72 | 1.01 | 7.1 |
| 4/18/2015 13:58:25 | 54.13 | 48.33 | 116 | 1.72 | 1.03 | 6.3 |
| 4/18/2015 13:58:28 | 54.46 | 48.66 | 104 | 1.74 | 1.06 | 5.7 |
| 4/18/2015 13:58:32 | 54.79 | 48.99 | 96 | 1.72 | 1.03 | 5.2 |
| 4/18/2015 13:58:37 | 55.12 | 49.32 | 77 | 1.72 | 1.00 | 4.2 |
| 4/18/2015 13:58:42 | 55.45 | 49.65 | 74 | 1.73 | 1.12 | 4.0 |
| 4/18/2015 13:58:47 | 55.77 | 49.97 | 79 | 1.74 | 1.04 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 13:58:52 | 56.10 | 50.30 | 64 | 1.73 | 1.07 | 3.5 |
| 4/18/2015 | 13:58:57 | 56.43 | 50.63 | 67 | 1.74 | 1.02 | 3.7 |
| 4/18/2015 | 13:59:03 | 56.76 | 50.96 | 56 | 1.74 | 1.04 | 3.1 |
| 4/18/2015 | 13:59:09 | 57.09 | 51.29 | 62 | 1.74 | 1.06 | 3.4 |
| 4/18/2015 | 13:59:15 | 57.41 | 51.61 | 73 | 1.71 | 0.96 | 4.0 |
| 4/18/2015 | 13:59:18 | 57.74 | 51.94 | 105 | 1.75 | 0.96 | 5.7 |
| 4/18/2015 | 13:59:21 | 58.07 | 52.27 | 130 | 1.74 | 0.99 | 7.1 |
| 4/18/2015 | 13:59:23 | 58.40 | 52.60 | 136 | 1.75 | 1.02 | 7.4 |
| 4/18/2015 | 13:59:26 | 58.73 | 52.93 | 125 | 1.74 | 1.04 | 6.8 |
| 4/18/2015 | 13:59:30 | 59.06 | 53.26 | 98 | 1.73 | 0.98 | 5.4 |
| 4/18/2015 | 13:59:33 | 59.38 | 53.58 | 95 | 1.76 | 0.98 | 5.2 |
| 4/18/2015 | 13:59:37 | 59.71 | 53.91 | 108 | 1.77 | 0.96 | 5.9 |
| 4/18/2015 | 13:59:40 | 60.04 | 54.24 | 107 | 1.75 | 0.97 | 5.9 |
| 4/18/2015 | 13:59:43 | 60.37 | 54.57 | 105 | 1.76 | 1.01 | 5.8 |
| 4/18/2015 | 13:59:46 | 60.70 | 54.90 | 130 | 1.75 | 0.96 | 7.1 |
| 4/18/2015 | 13:59:49 | 61.02 | 55.22 | 144 | 1.76 | 1.03 | 7.8 |
| 4/18/2015 | 13:59:50 | 61.21 | 55.41 | 133 | 1.71 | 1.09 | 7.3 |

## C1009 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 13:55:08

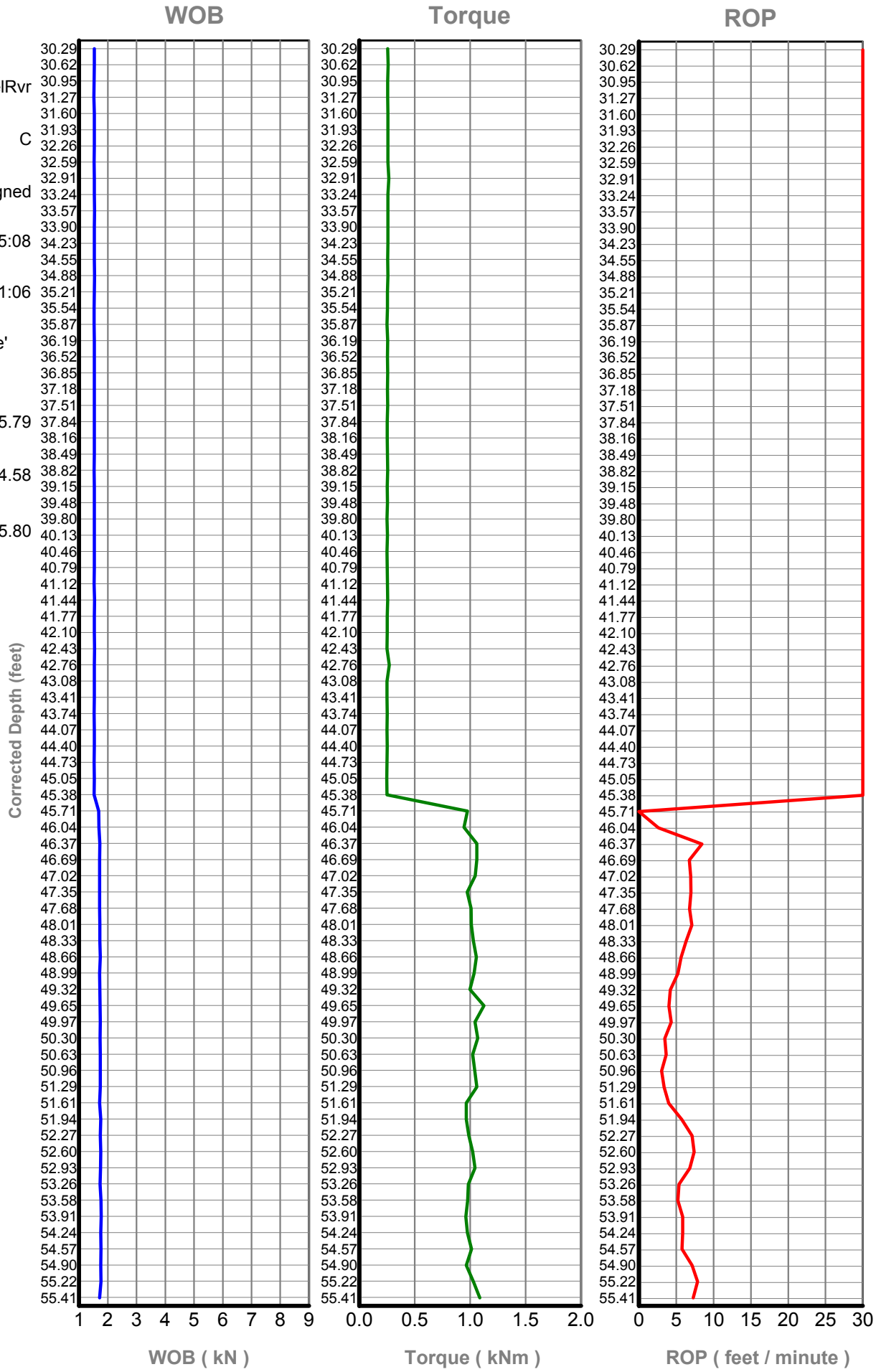
**End Date:**
4/18/2015 14:01:06

**Operator Note:**
'5.8 6.2 c Auto Complete'

**Northing:**
371,145.79

**Easting:**
258,584.58

**Tide (feet):**
5.80



## Hole: C1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 13:56:44 | 36.09 | 30.29 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 13:56:44 | 36.42 | 30.62 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 13:56:45 | 36.75 | 30.95 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 13:56:45 | 37.07 | 31.27 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 13:56:45 | 37.40 | 31.60 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 13:56:45 | 37.73 | 31.93 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 13:56:46 | 38.06 | 32.26 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 13:56:46 | 38.39 | 32.59 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 13:56:46 | 38.71 | 32.91 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:47 | 39.04 | 33.24 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:47 | 39.37 | 33.57 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:47 | 39.70 | 33.90 | 1,120 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 13:56:48 | 40.03 | 34.23 | 1,120 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 13:56:48 | 40.35 | 34.55 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 13:56:48 | 40.68 | 34.88 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 13:56:49 | 41.01 | 35.21 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 13:56:49 | 41.34 | 35.54 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 13:56:49 | 41.67 | 35.87 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 13:56:50 | 41.99 | 36.19 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 13:56:50 | 42.32 | 36.52 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 13:56:50 | 42.65 | 36.85 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 13:56:50 | 42.98 | 37.18 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 13:56:51 | 43.31 | 37.51 | 1,100 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 13:56:51 | 43.64 | 37.84 | 1,100 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 13:56:51 | 43.96 | 38.16 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 13:56:52 | 44.29 | 38.49 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:52 | 44.62 | 38.82 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:52 | 44.95 | 39.15 | 1,118 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 13:56:53 | 45.28 | 39.48 | 1,118 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 13:56:53 | 45.60 | 39.80 | 1,115 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 13:56:54 | 45.93 | 40.13 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 13:56:54 | 46.26 | 40.46 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 13:56:54 | 46.59 | 40.79 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 13:56:55 | 46.92 | 41.12 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 13:56:55 | 47.24 | 41.44 | 1,128 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 13:56:55 | 47.57 | 41.77 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:56 | 47.90 | 42.10 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:56 | 48.23 | 42.43 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 13:56:56 | 48.56 | 42.76 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:57 | 48.88 | 43.08 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:57 | 49.21 | 43.41 | 1,115 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:57 | 49.54 | 43.74 | 1,115 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 13:56:57 | 49.87 | 44.07 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 13:56:58 | 50.20 | 44.40 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:58 | 50.53 | 44.73 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 13:56:58 | 50.85 | 45.05 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 13:56:59 | 51.18 | 45.38 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 13:56:59 | 51.51 | 45.71 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 13:57:07 | 51.84 | 46.04 | 82 | 0.24 | 0.37 | 4.5 |
| 4/18/2015 13:57:11 | 52.17 | 46.37 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 13:57:13 | 52.49 | 46.69 | 120 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 13:57:16 | 52.82 | 47.02 | 198 | 0.24 | 0.37 | 10.8 |
| 4/18/2015 13:57:20 | 53.15 | 47.35 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 13:57:29 | 53.48 | 47.68 | 86 | 0.24 | 0.37 | 4.7 |
| 4/18/2015 13:57:33 | 53.81 | 48.01 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 13:57:38 | 54.13 | 48.33 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 13:57:43 | 54.46 | 48.66 | 72 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 13:57:48 | 54.79 | 48.99 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 13:57:53 | 55.12 | 49.32 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 13:57:58 | 55.45 | 49.65 | 72 | 0.24 | 0.37 | 3.9 |
| 4/18/2015 13:58:02 | 55.77 | 49.97 | 81 | 0.24 | 0.37 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 13:58:06 | 56.10 | 50.30 | 83 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 | 13:58:11 | 56.43 | 50.63 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 | 13:58:15 | 56.76 | 50.96 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 | 13:58:21 | 57.09 | 51.29 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 | 13:58:26 | 57.41 | 51.61 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 | 13:58:32 | 57.74 | 51.94 | 66 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 | 13:58:37 | 58.07 | 52.27 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 | 13:58:42 | 58.40 | 52.60 | 79 | 0.24 | 0.37 | 4.3 |
| 4/18/2015 | 13:58:47 | 58.73 | 52.93 | 66 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 | 13:58:53 | 59.06 | 53.26 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 | 13:58:58 | 59.38 | 53.58 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 | 13:59:04 | 59.71 | 53.91 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 | 13:59:09 | 60.04 | 54.24 | 66 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 | 13:59:10 | 60.08 | 54.28 | 70 | 0.24 | 0.37 | 3.8 |

## C1010 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 13:54:49

**End Date:**
4/18/2015 14:00:40

**Operator Note:**
'5.8 6.2 b Rock @ 59"

**Northing:**
371,174.18

**Easting:**
258,654.00

**Tide (feet):**
5.80



## Hole: C1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 14:03:31 | 35.76 | 30.06 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:03:31 | 36.09 | 30.39 | 1,104 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 14:03:32 | 36.42 | 30.72 | 1,104 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 14:03:32 | 36.75 | 31.05 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:32 | 37.07 | 31.37 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 14:03:33 | 37.40 | 31.70 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 14:03:33 | 37.73 | 32.03 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:33 | 38.06 | 32.36 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:34 | 38.39 | 32.69 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:34 | 38.71 | 33.01 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 14:03:34 | 39.04 | 33.34 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 14:03:34 | 39.37 | 33.67 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:03:35 | 39.70 | 34.00 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:35 | 40.03 | 34.33 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:35 | 40.35 | 34.65 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 14:03:36 | 40.68 | 34.98 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:36 | 41.01 | 35.31 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:36 | 41.34 | 35.64 | 1,098 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:03:37 | 41.67 | 35.97 | 1,098 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:03:37 | 41.99 | 36.29 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:03:37 | 42.32 | 36.62 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:38 | 42.65 | 36.95 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:38 | 42.98 | 37.28 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:38 | 43.31 | 37.61 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:03:39 | 43.64 | 37.94 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:03:39 | 43.96 | 38.26 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:03:39 | 44.29 | 38.59 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:03:39 | 44.62 | 38.92 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 14:03:40 | 44.95 | 39.25 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:40 | 45.28 | 39.58 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:03:40 | 45.60 | 39.90 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:41 | 45.93 | 40.23 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:41 | 46.26 | 40.56 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:41 | 46.59 | 40.89 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:42 | 46.92 | 41.22 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:03:42 | 47.24 | 41.54 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:43 | 47.57 | 41.87 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 14:03:43 | 47.90 | 42.20 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 14:03:43 | 48.23 | 42.53 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:44 | 48.56 | 42.86 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 14:03:44 | 48.88 | 43.18 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 14:03:44 | 49.21 | 43.51 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:45 | 49.54 | 43.84 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:45 | 49.87 | 44.17 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:03:45 | 50.20 | 44.50 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 14:03:56 | 50.53 | 44.83 | 54 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 14:03:59 | 50.85 | 45.15 | 103 | 0.24 | 0.37 | 5.7 |
| 4/18/2015 14:04:04 | 51.18 | 45.48 | 47 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 14:04:05 | 51.51 | 45.81 | 192 | 0.24 | 0.37 | 10.5 |
| 4/18/2015 14:04:06 | 51.84 | 46.14 | 284 | 0.24 | 0.37 | 15.5 |
| 4/18/2015 14:04:11 | 52.17 | 46.47 | 66 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 14:04:13 | 52.49 | 46.79 | 149 | 0.24 | 0.37 | 8.1 |
| 4/18/2015 14:04:15 | 52.82 | 47.12 | 189 | 0.24 | 0.37 | 10.3 |
| 4/18/2015 14:04:17 | 53.15 | 47.45 | 213 | 0.24 | 0.37 | 11.6 |
| 4/18/2015 14:04:19 | 53.48 | 47.78 | 175 | 0.24 | 0.37 | 9.6 |
| 4/18/2015 14:04:23 | 53.81 | 48.11 | 108 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 14:04:25 | 54.13 | 48.43 | 124 | 0.24 | 0.37 | 6.8 |
| 4/18/2015 14:04:29 | 54.46 | 48.76 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 14:04:33 | 54.79 | 49.09 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 14:04:38 | 55.12 | 49.42 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 14:04:39 | 55.45 | 49.75 | 157 | 0.24 | 0.37 | 8.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 14:04:42 | 55.77 | 50.07 | 185 | 0.24 | 0.37 | 10.1 |
| 4/18/2015 | 14:04:44 | 56.10 | 50.40 | 157 | 0.24 | 0.37 | 8.6 |
| 4/18/2015 | 14:04:47 | 56.43 | 50.73 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 | 14:04:49 | 56.76 | 51.06 | 133 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 | 14:04:53 | 57.09 | 51.39 | 108 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 | 14:04:56 | 57.41 | 51.71 | 121 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 | 14:04:58 | 57.74 | 52.04 | 130 | 0.24 | 0.37 | 7.1 |
| 4/18/2015 | 14:05:01 | 58.07 | 52.37 | 151 | 0.24 | 0.37 | 8.3 |
| 4/18/2015 | 14:05:03 | 58.40 | 52.70 | 148 | 0.24 | 0.37 | 8.1 |
| 4/18/2015 | 14:05:06 | 58.73 | 53.03 | 148 | 0.24 | 0.37 | 8.1 |
| 4/18/2015 | 14:05:09 | 59.06 | 53.36 | 116 | 0.24 | 0.37 | 6.3 |
| 4/18/2015 | 14:05:12 | 59.38 | 53.68 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 14:05:16 | 59.71 | 54.01 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 | 14:05:18 | 60.04 | 54.34 | 127 | 0.24 | 0.37 | 6.9 |
| 4/18/2015 | 14:05:21 | 60.37 | 54.67 | 122 | 0.24 | 0.37 | 6.7 |
| 4/18/2015 | 14:05:24 | 60.70 | 55.00 | 112 | 0.24 | 0.37 | 6.1 |
| 4/18/2015 | 14:05:26 | 60.88 | 55.18 | 105 | 0.24 | 0.37 | 5.7 |

## C1011 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 14:01:55

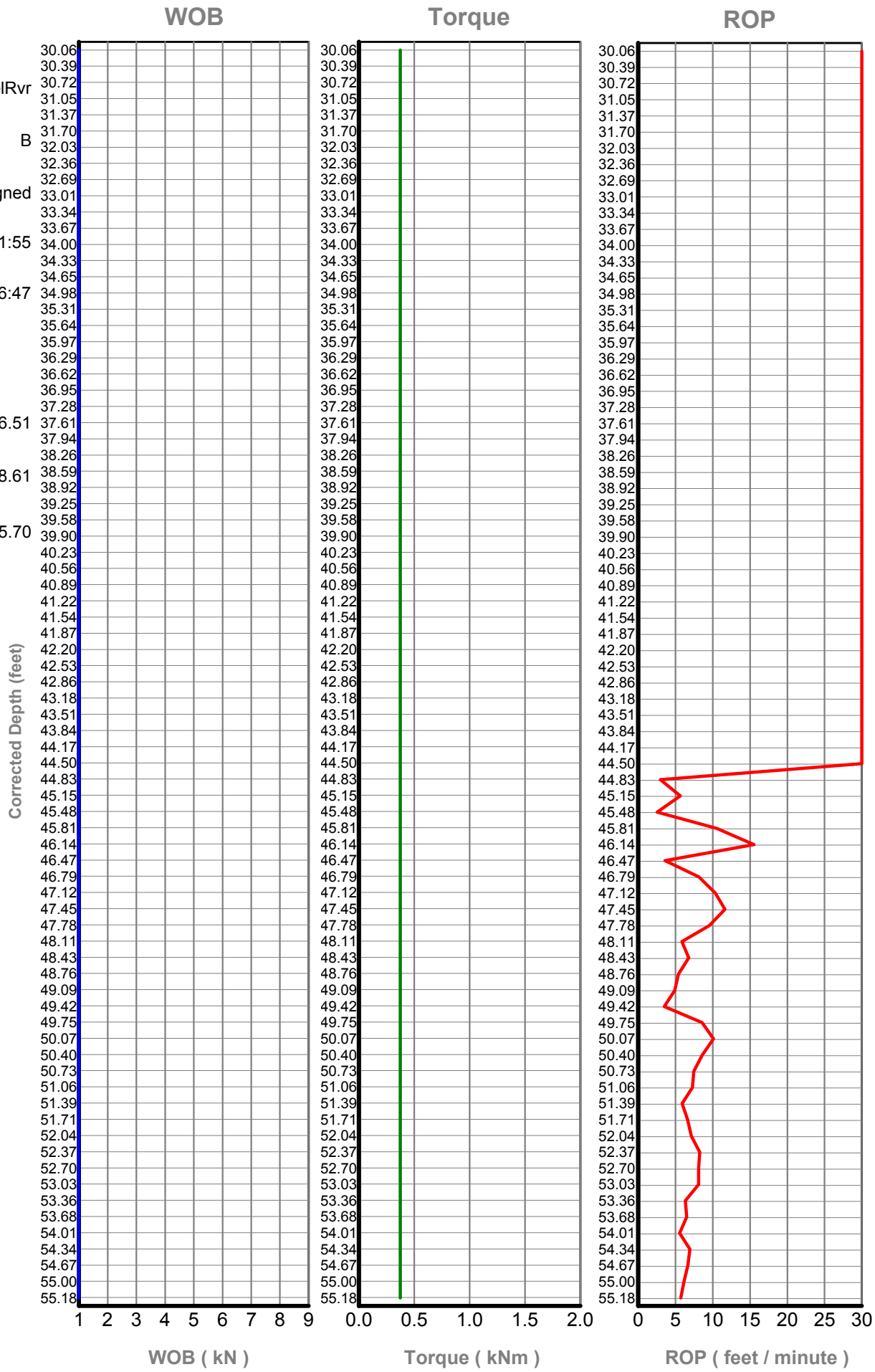
**End Date:**
4/18/2015 14:06:47

**Operator Note:**
'5.7 5.9 b No rock'

**Northing:**
371,196.51

**Easting:**
258,708.61

**Tide (feet):**
5.70



## Hole: C1012 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 12:37:21 | 36.09 | 30.19 | 1,299 | 2.19 | 0.26 | 71.0 |
| 4/18/2015 12:37:21 | 36.42 | 30.52 | 1,327 | 2.18 | 0.26 | 72.5 |
| 4/18/2015 12:37:22 | 36.75 | 30.85 | 1,327 | 2.18 | 0.26 | 72.5 |
| 4/18/2015 12:37:22 | 37.07 | 31.17 | 1,318 | 2.18 | 0.26 | 72.1 |
| 4/18/2015 12:37:22 | 37.40 | 31.50 | 1,318 | 2.18 | 0.26 | 72.1 |
| 4/18/2015 12:37:22 | 37.73 | 31.83 | 1,312 | 2.21 | 0.26 | 71.8 |
| 4/18/2015 12:37:23 | 38.06 | 32.16 | 1,312 | 2.21 | 0.26 | 71.8 |
| 4/18/2015 12:37:23 | 38.39 | 32.49 | 1,315 | 2.18 | 0.26 | 71.9 |
| 4/18/2015 12:37:23 | 38.71 | 32.81 | 1,315 | 2.18 | 0.26 | 71.9 |
| 4/18/2015 12:37:23 | 39.04 | 33.14 | 1,315 | 2.20 | 0.26 | 71.9 |
| 4/18/2015 12:37:24 | 39.37 | 33.47 | 1,315 | 2.20 | 0.26 | 71.9 |
| 4/18/2015 12:37:24 | 39.70 | 33.80 | 1,311 | 2.20 | 0.26 | 71.7 |
| 4/18/2015 12:37:24 | 40.03 | 34.13 | 1,311 | 2.20 | 0.26 | 71.7 |
| 4/18/2015 12:37:24 | 40.35 | 34.45 | 1,316 | 2.19 | 0.26 | 72.0 |
| 4/18/2015 12:37:25 | 40.68 | 34.78 | 1,316 | 2.19 | 0.26 | 72.0 |
| 4/18/2015 12:37:25 | 41.01 | 35.11 | 1,313 | 2.21 | 0.26 | 71.8 |
| 4/18/2015 12:37:25 | 41.34 | 35.44 | 1,313 | 2.21 | 0.26 | 71.8 |
| 4/18/2015 12:37:25 | 41.67 | 35.77 | 1,306 | 2.19 | 0.26 | 71.4 |
| 4/18/2015 12:37:26 | 41.99 | 36.09 | 1,306 | 2.19 | 0.26 | 71.4 |
| 4/18/2015 12:37:26 | 42.32 | 36.42 | 1,319 | 2.18 | 0.26 | 72.1 |
| 4/18/2015 12:37:26 | 42.65 | 36.75 | 1,319 | 2.18 | 0.26 | 72.1 |
| 4/18/2015 12:37:26 | 42.98 | 37.08 | 1,321 | 2.21 | 0.26 | 72.2 |
| 4/18/2015 12:37:27 | 43.31 | 37.41 | 1,310 | 2.19 | 0.26 | 71.6 |
| 4/18/2015 12:37:27 | 43.64 | 37.74 | 1,310 | 2.19 | 0.26 | 71.6 |
| 4/18/2015 12:37:27 | 43.96 | 38.06 | 1,310 | 2.20 | 0.26 | 71.6 |
| 4/18/2015 12:37:28 | 44.29 | 38.39 | 1,310 | 2.20 | 0.26 | 71.6 |
| 4/18/2015 12:37:28 | 44.62 | 38.72 | 1,320 | 2.19 | 0.26 | 72.2 |
| 4/18/2015 12:37:28 | 44.95 | 39.05 | 1,320 | 2.19 | 0.26 | 72.2 |
| 4/18/2015 12:37:28 | 45.28 | 39.38 | 1,307 | 2.21 | 0.26 | 71.5 |
| 4/18/2015 12:37:29 | 45.60 | 39.70 | 1,307 | 2.21 | 0.26 | 71.5 |
| 4/18/2015 12:37:29 | 45.93 | 40.03 | 1,314 | 2.21 | 0.26 | 71.9 |
| 4/18/2015 12:37:30 | 46.26 | 40.36 | 1,314 | 2.21 | 0.26 | 71.9 |
| 4/18/2015 12:37:30 | 46.59 | 40.69 | 1,307 | 2.18 | 0.26 | 71.5 |
| 4/18/2015 12:37:30 | 46.92 | 41.02 | 1,307 | 2.18 | 0.26 | 71.5 |
| 4/18/2015 12:37:30 | 47.24 | 41.34 | 1,310 | 2.21 | 0.26 | 71.6 |
| 4/18/2015 12:37:31 | 47.57 | 41.67 | 1,310 | 2.21 | 0.26 | 71.6 |
| 4/18/2015 12:37:31 | 47.90 | 42.00 | 1,304 | 2.19 | 0.26 | 71.3 |
| 4/18/2015 12:37:31 | 48.23 | 42.33 | 1,304 | 2.19 | 0.26 | 71.3 |
| 4/18/2015 12:37:31 | 48.56 | 42.66 | 1,304 | 2.19 | 0.26 | 71.3 |
| 4/18/2015 12:37:32 | 48.88 | 42.98 | 1,304 | 2.19 | 0.26 | 71.3 |
| 4/18/2015 12:37:32 | 49.21 | 43.31 | 1,293 | 2.21 | 0.26 | 70.7 |
| 4/18/2015 12:37:32 | 49.54 | 43.64 | 1,293 | 2.21 | 0.26 | 70.7 |
| 4/18/2015 12:37:32 | 49.87 | 43.97 | 1,307 | 2.24 | 0.26 | 71.5 |
| 4/18/2015 12:37:55 | 50.20 | 44.30 | 0 | 2.40 | 0.25 | 0.0 |
| 4/18/2015 12:38:34 | 50.53 | 44.63 | 97 | 2.42 | 1.20 | 5.3 |
| 4/18/2015 12:38:37 | 50.85 | 44.95 | 118 | 2.42 | 1.24 | 6.4 |
| 4/18/2015 12:38:40 | 51.18 | 45.28 | 119 | 2.06 | 1.15 | 6.5 |
| 4/18/2015 12:38:45 | 51.51 | 45.61 | 69 | 2.12 | 1.12 | 3.8 |
| 4/18/2015 12:38:50 | 51.84 | 45.94 | 70 | 2.08 | 1.11 | 3.8 |
| 4/18/2015 12:38:55 | 52.17 | 46.27 | 70 | 1.77 | 1.08 | 3.8 |
| 4/18/2015 12:38:59 | 52.49 | 46.59 | 74 | 1.79 | 1.09 | 4.1 |
| 4/18/2015 12:39:04 | 52.82 | 46.92 | 75 | 1.79 | 1.06 | 4.1 |
| 4/18/2015 12:39:09 | 53.15 | 47.25 | 73 | 1.80 | 1.10 | 4.0 |
| 4/18/2015 12:39:13 | 53.48 | 47.58 | 96 | 1.79 | 1.12 | 5.2 |
| 4/18/2015 12:39:16 | 53.81 | 47.91 | 118 | 1.81 | 1.13 | 6.5 |
| 4/18/2015 12:39:20 | 54.13 | 48.23 | 81 | 1.78 | 1.08 | 4.4 |
| 4/18/2015 12:39:23 | 54.46 | 48.56 | 116 | 1.81 | 1.16 | 6.4 |
| 4/18/2015 12:39:59 | 54.79 | 48.89 | 2 | 1.75 | 1.07 | 0.1 |
| 4/18/2015 12:40:08 | 55.12 | 49.22 | 115 | 1.80 | 1.16 | 6.3 |
| 4/18/2015 12:40:13 | 55.45 | 49.55 | 72 | 1.77 | 1.07 | 4.0 |
| 4/18/2015 12:40:17 | 55.77 | 49.87 | 87 | 1.78 | 1.12 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 12:40:19 | 55.91 | 50.01 | 75 | 1.76 | 1.12 | 4.1 |

## C1012 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 12:35:43

**End Date:**
4/18/2015 12:41:28

**Operator Note:**
'5.9 5 9 c Auto Complete'

**Northing:**
371,263.74

**Easting:**
258,671.43

**Tide (feet):**
5.90



## Hole: C1013 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 12:35:16 | 36.09 | 30.19 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:16 | 36.42 | 30.52 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 12:35:16 | 36.75 | 30.85 | 1,017 | 0.24 | 0.37 | 55.6 |
| 4/18/2015 12:35:17 | 37.07 | 31.17 | 1,017 | 0.24 | 0.37 | 55.6 |
| 4/18/2015 12:35:17 | 37.40 | 31.50 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:17 | 37.73 | 31.83 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:18 | 38.06 | 32.16 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:18 | 38.39 | 32.49 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 12:35:18 | 38.71 | 32.81 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 12:35:19 | 39.04 | 33.14 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 12:35:19 | 39.37 | 33.47 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:19 | 39.70 | 33.80 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 12:35:20 | 40.03 | 34.13 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 12:35:20 | 40.35 | 34.45 | 1,010 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:20 | 40.68 | 34.78 | 1,010 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:21 | 41.01 | 35.11 | 1,010 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:21 | 41.34 | 35.44 | 1,010 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:21 | 41.67 | 35.77 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 12:35:22 | 41.99 | 36.09 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 12:35:22 | 42.32 | 36.42 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 12:35:22 | 42.65 | 36.75 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 12:35:23 | 42.98 | 37.08 | 1,007 | 0.24 | 0.37 | 55.1 |
| 4/18/2015 12:35:23 | 43.31 | 37.41 | 1,007 | 0.24 | 0.37 | 55.1 |
| 4/18/2015 12:35:24 | 43.64 | 37.74 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 12:35:24 | 43.96 | 38.06 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 12:35:25 | 44.29 | 38.39 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 12:35:25 | 44.62 | 38.72 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:25 | 44.95 | 39.05 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:26 | 45.28 | 39.38 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:26 | 45.60 | 39.70 | 1,023 | 0.24 | 0.37 | 55.9 |
| 4/18/2015 12:35:26 | 45.93 | 40.03 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:27 | 46.26 | 40.36 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 12:35:27 | 46.59 | 40.69 | 985 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 12:35:27 | 46.92 | 41.02 | 985 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 12:35:28 | 47.24 | 41.34 | 985 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 12:35:28 | 47.57 | 41.67 | 1,010 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 12:35:28 | 47.90 | 42.00 | 1,013 | 0.24 | 0.37 | 55.4 |
| 4/18/2015 12:35:29 | 48.23 | 42.33 | 1,013 | 0.24 | 0.37 | 55.4 |
| 4/18/2015 12:35:29 | 48.56 | 42.66 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 12:35:29 | 48.88 | 42.98 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 12:35:30 | 49.21 | 43.31 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 12:35:30 | 49.54 | 43.64 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 12:35:30 | 49.87 | 43.97 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 12:35:40 | 50.20 | 44.30 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 12:35:43 | 50.53 | 44.63 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 12:35:46 | 50.85 | 44.95 | 128 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 12:35:50 | 51.18 | 45.28 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 12:35:52 | 51.51 | 45.61 | 131 | 0.24 | 0.37 | 7.2 |
| 4/18/2015 12:35:54 | 51.84 | 45.94 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 12:35:57 | 52.17 | 46.27 | 140 | 0.24 | 0.37 | 7.6 |
| 4/18/2015 12:36:01 | 52.49 | 46.59 | 113 | 0.24 | 0.37 | 6.2 |
| 4/18/2015 12:36:03 | 52.82 | 46.92 | 88 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 12:36:04 | 53.15 | 47.25 | 200 | 0.24 | 0.37 | 10.9 |
| 4/18/2015 12:36:05 | 53.48 | 47.58 | 250 | 0.24 | 0.37 | 13.7 |
| 4/18/2015 12:36:07 | 53.81 | 47.91 | 324 | 0.24 | 0.37 | 17.7 |
| 4/18/2015 12:36:09 | 54.13 | 48.23 | 225 | 0.24 | 0.37 | 12.3 |
| 4/18/2015 12:36:11 | 54.46 | 48.56 | 177 | 0.24 | 0.37 | 9.7 |
| 4/18/2015 12:36:14 | 54.79 | 48.89 | 142 | 0.24 | 0.37 | 7.8 |
| 4/18/2015 12:36:16 | 55.12 | 49.22 | 136 | 0.24 | 0.37 | 7.4 |
| 4/18/2015 12:36:19 | 55.45 | 49.55 | 127 | 0.24 | 0.37 | 6.9 |
| 4/18/2015 12:36:22 | 55.77 | 49.87 | 110 | 0.24 | 0.37 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 12:36:26 | 56.10 | 50.20 | 116 | 0.24 | 0.37 | 6.3 |
| 4/18/2015 | 12:36:29 | 56.43 | 50.53 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 12:36:31 | 56.76 | 50.86 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 | 12:36:34 | 57.09 | 51.19 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 | 12:36:37 | 57.41 | 51.51 | 126 | 0.24 | 0.37 | 6.9 |
| 4/18/2015 | 12:36:40 | 57.74 | 51.84 | 100 | 0.24 | 0.37 | 5.5 |
| 4/18/2015 | 12:36:43 | 58.07 | 52.17 | 128 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 | 12:36:45 | 58.40 | 52.50 | 154 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 | 12:36:48 | 58.73 | 52.83 | 139 | 0.24 | 0.37 | 7.6 |
| 4/18/2015 | 12:36:51 | 59.06 | 53.16 | 128 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 | 12:36:54 | 59.38 | 53.48 | 116 | 0.24 | 0.37 | 6.4 |
| 4/18/2015 | 12:36:57 | 59.71 | 53.81 | 116 | 0.24 | 0.37 | 6.3 |
| 4/18/2015 | 12:37:00 | 60.04 | 54.14 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 12:37:03 | 60.37 | 54.47 | 113 | 0.24 | 0.37 | 6.2 |
| 4/18/2015 | 12:37:07 | 60.70 | 54.80 | 81 | 0.24 | 0.37 | 4.5 |
| 4/18/2015 | 12:37:10 | 60.88 | 54.98 | 76 | 0.24 | 0.37 | 4.2 |

## C1013 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 12:33:10

**End Date:**
4/18/2015 12:38:34

**Operator Note:**
'5.9 5.9 b Auto Complete'

**Northing:**
371,331.33

**Easting:**
258,638.91

**Tide (feet):**
5.90



## Hole: C1014 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 12:41:28 | 36.09 | 30.09 | 569 | 0.24 | 0.37 | 31.1 |
| 4/18/2015 12:41:29 | 36.42 | 30.42 | 569 | 0.24 | 0.37 | 31.1 |
| 4/18/2015 12:41:29 | 36.75 | 30.75 | 778 | 0.24 | 0.37 | 42.5 |
| 4/18/2015 12:41:29 | 37.07 | 31.07 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 12:41:30 | 37.40 | 31.40 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 12:41:30 | 37.73 | 31.73 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:30 | 38.06 | 32.06 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:31 | 38.39 | 32.39 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:31 | 38.71 | 32.71 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:31 | 39.04 | 33.04 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:32 | 39.37 | 33.37 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:32 | 39.70 | 33.70 | 1,040 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:32 | 40.03 | 34.03 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 12:41:33 | 40.35 | 34.35 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 12:41:33 | 40.68 | 34.68 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:33 | 41.01 | 35.01 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/18/2015 12:41:34 | 41.34 | 35.34 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/18/2015 12:41:34 | 41.67 | 35.67 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:34 | 41.99 | 35.99 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 12:41:35 | 42.32 | 36.32 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 12:41:35 | 42.65 | 36.65 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 12:41:35 | 42.98 | 36.98 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 12:41:36 | 43.31 | 37.31 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 12:41:36 | 43.64 | 37.64 | 1,018 | 0.24 | 0.37 | 55.6 |
| 4/18/2015 12:41:36 | 43.96 | 37.96 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 12:41:37 | 44.29 | 38.29 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 12:41:37 | 44.62 | 38.62 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 12:41:38 | 44.95 | 38.95 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 12:41:38 | 45.28 | 39.28 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 12:41:38 | 45.60 | 39.60 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 12:41:39 | 45.93 | 39.93 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:39 | 46.26 | 40.26 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:39 | 46.59 | 40.59 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 12:41:40 | 46.92 | 40.92 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:40 | 47.24 | 41.24 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:40 | 47.57 | 41.57 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:41 | 47.90 | 41.90 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:41 | 48.23 | 42.23 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:41 | 48.56 | 42.56 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:42 | 48.88 | 42.88 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:42 | 49.21 | 43.21 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 12:41:42 | 49.54 | 43.54 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:43 | 49.87 | 43.87 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:43 | 50.20 | 44.20 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:43 | 50.53 | 44.53 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 12:41:44 | 50.85 | 44.85 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 12:41:44 | 51.18 | 45.18 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 12:41:44 | 51.51 | 45.51 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 12:41:55 | 51.84 | 45.84 | 106 | 0.24 | 0.37 | 5.8 |
| 4/18/2015 12:41:56 | 52.17 | 46.17 | 242 | 0.24 | 0.37 | 13.2 |
| 4/18/2015 12:41:59 | 52.49 | 46.49 | 146 | 0.24 | 0.37 | 8.0 |
| 4/18/2015 12:42:01 | 52.82 | 46.82 | 177 | 0.24 | 0.37 | 9.7 |
| 4/18/2015 12:42:04 | 53.15 | 47.15 | 117 | 0.24 | 0.37 | 6.4 |
| 4/18/2015 12:42:08 | 53.48 | 47.48 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 12:42:10 | 53.81 | 47.81 | 173 | 0.24 | 0.37 | 9.5 |
| 4/18/2015 12:42:12 | 54.13 | 48.13 | 158 | 0.24 | 0.37 | 8.6 |
| 4/18/2015 12:42:15 | 54.46 | 48.46 | 150 | 0.24 | 0.37 | 8.2 |
| 4/18/2015 12:42:16 | 54.79 | 48.79 | 166 | 0.24 | 0.37 | 9.1 |
| 4/18/2015 12:42:18 | 55.12 | 49.12 | 211 | 0.24 | 0.37 | 11.6 |
| 4/18/2015 12:42:19 | 55.45 | 49.45 | 237 | 0.24 | 0.37 | 13.0 |
| 4/18/2015 12:42:21 | 55.77 | 49.77 | 276 | 0.24 | 0.37 | 15.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 12:42:24 | 56.10 | 50.10 | 128 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 | 12:42:28 | 56.43 | 50.43 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 | 12:42:31 | 56.76 | 50.76 | 104 | 0.24 | 0.37 | 5.7 |
| 4/18/2015 | 12:42:33 | 57.09 | 51.09 | 132 | 0.24 | 0.37 | 7.2 |
| 4/18/2015 | 12:42:37 | 57.41 | 51.41 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 | 12:42:41 | 57.74 | 51.74 | 105 | 0.24 | 0.37 | 5.7 |
| 4/18/2015 | 12:42:44 | 58.07 | 52.07 | 96 | 0.24 | 0.37 | 5.3 |
| 4/18/2015 | 12:42:48 | 58.40 | 52.40 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 12:42:50 | 58.73 | 52.73 | 161 | 0.24 | 0.37 | 8.8 |
| 4/18/2015 | 12:42:52 | 59.06 | 53.06 | 144 | 0.24 | 0.37 | 7.9 |
| 4/18/2015 | 12:42:55 | 59.38 | 53.38 | 127 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 | 12:42:58 | 59.71 | 53.71 | 116 | 0.24 | 0.37 | 6.4 |
| 4/18/2015 | 12:43:02 | 60.04 | 54.04 | 98 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 | 12:43:05 | 60.37 | 54.37 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 12:43:07 | 60.70 | 54.70 | 131 | 0.24 | 0.37 | 7.2 |
| 4/18/2015 | 12:43:11 | 60.99 | 54.99 | 102 | 0.24 | 0.37 | 5.6 |

## C1014 - Summary

**Pattern Number:**
AreaC_2ndAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 12:39:30

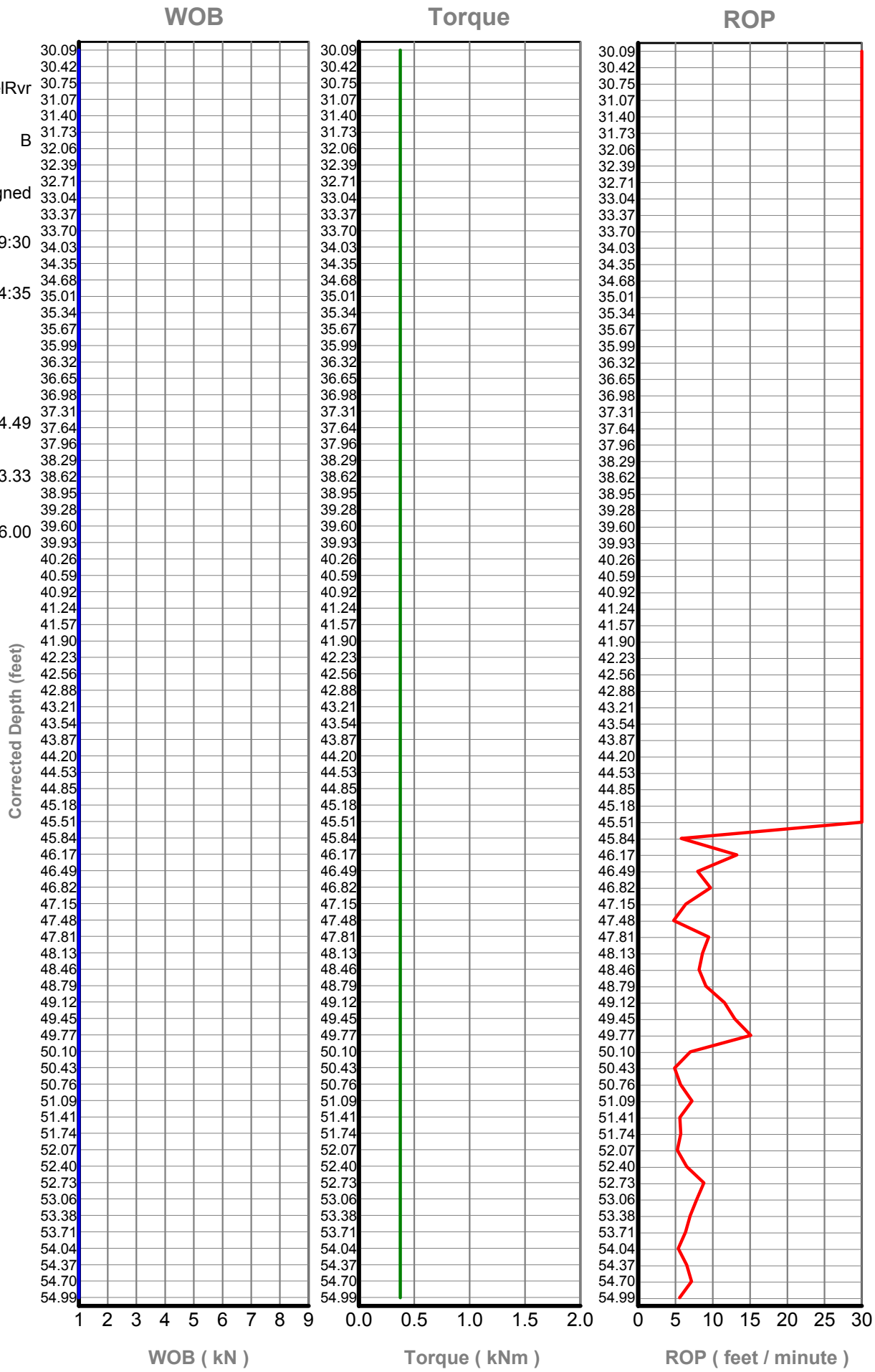
**End Date:**
4/18/2015 12:44:35

**Operator Note:**
'6 6.0 b No rock'

**Northing:**
371,384.49

**Easting:**
258,613.33

**Tide (feet):**
6.00



## Hole: C1015 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 13:16:08 | 36.42 | 30.32 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:09 | 36.75 | 30.65 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:09 | 37.07 | 30.97 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:09 | 37.40 | 31.30 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:10 | 37.73 | 31.63 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:10 | 38.06 | 31.96 | 948 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:10 | 38.39 | 32.29 | 948 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:11 | 38.71 | 32.61 | 948 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:11 | 39.04 | 32.94 | 948 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:11 | 39.37 | 33.27 | 954 | 0.24 | 0.37 | 52.2 |
| 4/18/2015 13:16:12 | 39.70 | 33.60 | 954 | 0.24 | 0.37 | 52.2 |
| 4/18/2015 13:16:12 | 40.03 | 33.93 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:13 | 40.35 | 34.25 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:13 | 40.68 | 34.58 | 954 | 0.24 | 0.37 | 52.2 |
| 4/18/2015 13:16:13 | 41.01 | 34.91 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:14 | 41.34 | 35.24 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 13:16:14 | 41.67 | 35.57 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:14 | 41.99 | 35.89 | 945 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 13:16:15 | 42.32 | 36.22 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:15 | 42.65 | 36.55 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:15 | 42.98 | 36.88 | 936 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:16 | 43.31 | 37.21 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:17 | 43.64 | 37.54 | 933 | 0.24 | 0.37 | 51.0 |
| 4/18/2015 13:16:17 | 43.96 | 37.86 | 933 | 0.24 | 0.37 | 51.0 |
| 4/18/2015 13:16:17 | 44.29 | 38.19 | 931 | 0.24 | 0.37 | 50.9 |
| 4/18/2015 13:16:18 | 44.62 | 38.52 | 942 | 0.24 | 0.37 | 51.5 |
| 4/18/2015 13:16:18 | 44.95 | 38.85 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:19 | 45.28 | 39.18 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 13:16:19 | 45.60 | 39.50 | 945 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 13:16:19 | 45.93 | 39.83 | 937 | 0.24 | 0.37 | 51.3 |
| 4/18/2015 13:16:20 | 46.26 | 40.16 | 937 | 0.24 | 0.37 | 51.3 |
| 4/18/2015 13:16:20 | 46.59 | 40.49 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:20 | 46.92 | 40.82 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:21 | 47.24 | 41.14 | 952 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:21 | 47.57 | 41.47 | 952 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:21 | 47.90 | 41.80 | 948 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 13:16:22 | 48.23 | 42.13 | 957 | 0.24 | 0.37 | 52.3 |
| 4/18/2015 13:16:22 | 48.56 | 42.46 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:23 | 48.88 | 42.78 | 951 | 0.24 | 0.37 | 52.0 |
| 4/18/2015 13:16:23 | 49.21 | 43.11 | 954 | 0.24 | 0.37 | 52.2 |
| 4/18/2015 13:16:23 | 49.54 | 43.44 | 940 | 0.24 | 0.37 | 51.4 |
| 4/18/2015 13:16:33 | 49.87 | 43.77 | 65 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 13:16:34 | 50.20 | 44.10 | 242 | 0.24 | 0.37 | 13.2 |
| 4/18/2015 13:16:36 | 50.53 | 44.43 | 308 | 0.24 | 0.37 | 16.8 |
| 4/18/2015 13:16:38 | 50.85 | 44.75 | 178 | 0.24 | 0.37 | 9.7 |
| 4/18/2015 13:16:40 | 51.18 | 45.08 | 200 | 0.24 | 0.37 | 10.9 |
| 4/18/2015 13:16:56 | 51.51 | 45.41 | 78 | 0.24 | 0.37 | 4.3 |
| 4/18/2015 13:17:01 | 51.84 | 45.74 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 13:17:02 | 52.17 | 46.07 | 134 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 13:17:03 | 52.49 | 46.39 | 238 | 0.24 | 0.37 | 13.0 |
| 4/18/2015 13:17:04 | 52.82 | 46.72 | 352 | 0.24 | 0.37 | 19.2 |
| 4/18/2015 13:17:06 | 53.15 | 47.05 | 320 | 0.24 | 0.37 | 17.5 |
| 4/18/2015 13:17:08 | 53.48 | 47.38 | 185 | 0.24 | 0.37 | 10.1 |
| 4/18/2015 13:17:17 | 53.81 | 47.71 | 126 | 0.24 | 0.37 | 6.9 |
| 4/18/2015 13:17:19 | 54.13 | 48.03 | 145 | 0.24 | 0.37 | 7.9 |
| 4/18/2015 13:17:22 | 54.46 | 48.36 | 160 | 0.24 | 0.37 | 8.7 |
| 4/18/2015 13:17:24 | 54.79 | 48.69 | 154 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 13:17:25 | 55.12 | 49.02 | 180 | 0.24 | 0.37 | 9.9 |
| 4/18/2015 13:17:27 | 55.45 | 49.35 | 229 | 0.24 | 0.37 | 12.5 |
| 4/18/2015 13:17:28 | 55.77 | 49.67 | 300 | 0.24 | 0.37 | 16.4 |
| 4/18/2015 13:17:29 | 56.10 | 50.00 | 334 | 0.24 | 0.37 | 18.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 13:17:30 | 56.43 | 50.33 | 314 | 0.24 | 0.37 | 17.2 |
| 4/18/2015 | 13:17:31 | 56.76 | 50.66 | 314 | 0.24 | 0.37 | 17.2 |
| 4/18/2015 | 13:17:33 | 57.09 | 50.99 | 285 | 0.24 | 0.37 | 15.6 |
| 4/18/2015 | 13:17:34 | 57.41 | 51.31 | 239 | 0.24 | 0.37 | 13.0 |
| 4/18/2015 | 13:17:36 | 57.74 | 51.64 | 163 | 0.24 | 0.37 | 8.9 |
| 4/18/2015 | 13:17:40 | 58.07 | 51.97 | 125 | 0.24 | 0.37 | 6.8 |
| 4/18/2015 | 13:17:44 | 58.40 | 52.30 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 | 13:17:47 | 58.73 | 52.63 | 108 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 | 13:17:50 | 59.06 | 52.96 | 116 | 0.24 | 0.37 | 6.4 |
| 4/18/2015 | 13:17:53 | 59.38 | 53.28 | 134 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 | 13:17:55 | 59.71 | 53.61 | 131 | 0.24 | 0.37 | 7.2 |
| 4/18/2015 | 13:17:58 | 60.04 | 53.94 | 131 | 0.24 | 0.37 | 7.2 |
| 4/18/2015 | 13:18:00 | 60.37 | 54.27 | 147 | 0.24 | 0.37 | 8.0 |
| 4/18/2015 | 13:18:03 | 60.70 | 54.60 | 135 | 0.24 | 0.37 | 7.4 |
| 4/18/2015 | 13:18:07 | 61.02 | 54.92 | 96 | 0.24 | 0.37 | 5.2 |
| 4/18/2015 | 13:18:08 | 61.12 | 55.02 | 105 | 0.24 | 0.37 | 5.7 |

## C1015 - Summary

**Pattern Number:**
AreaC_3rdAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 13:13:52

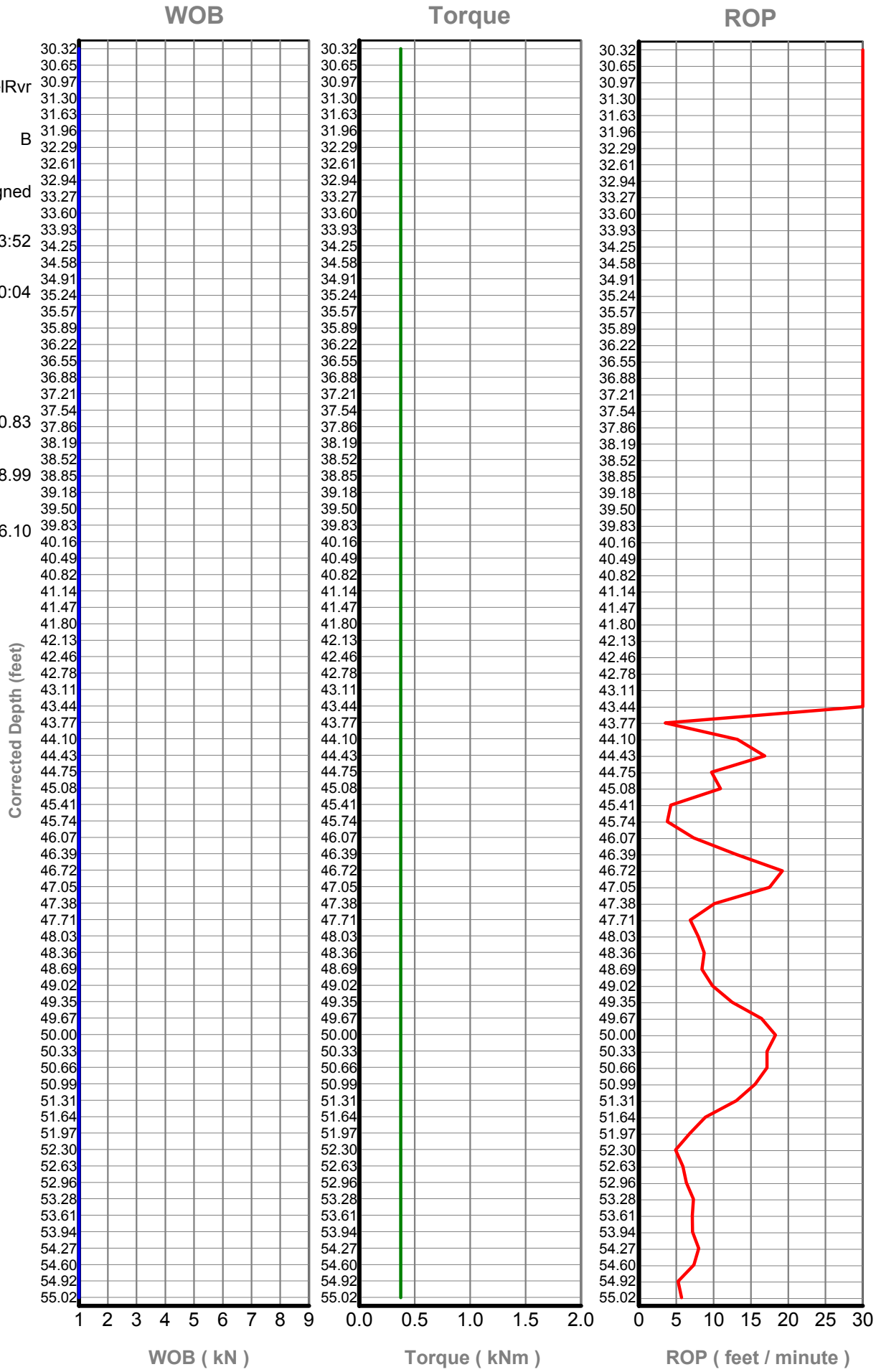
**End Date:**
4/18/2015 13:20:04

**Operator Note:**
'6.1 6.1 b No rock'

**Northing:**
371,420.83

**Easting:**
258,678.99

**Tide (feet):**
6.10



## Hole: C1016 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 13:22:19 | 36.09 | 30.09 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:20 | 36.42 | 30.42 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:20 | 36.75 | 30.75 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:20 | 37.07 | 31.07 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:21 | 37.40 | 31.40 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 13:22:21 | 37.73 | 31.73 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 13:22:21 | 38.06 | 32.06 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:22 | 38.39 | 32.39 | 1,038 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 13:22:22 | 38.71 | 32.71 | 1,038 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 13:22:22 | 39.04 | 33.04 | 1,038 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 13:22:23 | 39.37 | 33.37 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 13:22:23 | 39.70 | 33.70 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 13:22:23 | 40.03 | 34.03 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:24 | 40.35 | 34.35 | 1,043 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:24 | 40.68 | 34.68 | 1,043 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:24 | 41.01 | 35.01 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:25 | 41.34 | 35.34 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:25 | 41.67 | 35.67 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:25 | 41.99 | 35.99 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:26 | 42.32 | 36.32 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:26 | 42.65 | 36.65 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:26 | 42.98 | 36.98 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:27 | 43.31 | 37.31 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:27 | 43.64 | 37.64 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 13:22:27 | 43.96 | 37.96 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 13:22:28 | 44.29 | 38.29 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:28 | 44.62 | 38.62 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:28 | 44.95 | 38.95 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 13:22:29 | 45.28 | 39.28 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 13:22:29 | 45.60 | 39.60 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 13:22:30 | 45.93 | 39.93 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 13:22:30 | 46.26 | 40.26 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:31 | 46.59 | 40.59 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:31 | 46.92 | 40.92 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:31 | 47.24 | 41.24 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 13:22:32 | 47.57 | 41.57 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 13:22:32 | 47.90 | 41.90 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 13:22:32 | 48.23 | 42.23 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 13:22:33 | 48.56 | 42.56 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 13:22:33 | 48.88 | 42.88 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/18/2015 13:22:33 | 49.21 | 43.21 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:34 | 49.54 | 43.54 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 13:22:34 | 49.87 | 43.87 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 13:22:34 | 50.20 | 44.20 | 1,036 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 13:22:42 | 50.53 | 44.53 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 13:22:44 | 50.85 | 44.85 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 13:22:46 | 51.18 | 45.18 | 108 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 13:22:47 | 51.51 | 45.51 | 241 | 0.24 | 0.37 | 13.2 |
| 4/18/2015 13:22:48 | 51.84 | 45.84 | 288 | 0.24 | 0.37 | 15.7 |
| 4/18/2015 13:22:49 | 52.17 | 46.17 | 402 | 0.24 | 0.37 | 22.0 |
| 4/18/2015 13:22:49 | 52.49 | 46.49 | 390 | 0.24 | 0.37 | 21.3 |
| 4/18/2015 13:22:50 | 52.82 | 46.82 | 368 | 0.24 | 0.37 | 20.1 |
| 4/18/2015 13:22:51 | 53.15 | 47.15 | 381 | 0.24 | 0.37 | 20.8 |
| 4/18/2015 13:22:53 | 53.48 | 47.48 | 395 | 0.24 | 0.37 | 21.6 |
| 4/18/2015 13:22:55 | 53.81 | 47.81 | 223 | 0.24 | 0.37 | 12.2 |
| 4/18/2015 13:22:56 | 54.13 | 48.13 | 177 | 0.24 | 0.37 | 9.7 |
| 4/18/2015 13:22:59 | 54.46 | 48.46 | 152 | 0.24 | 0.37 | 8.3 |
| 4/18/2015 13:23:01 | 54.79 | 48.79 | 143 | 0.24 | 0.37 | 7.8 |
| 4/18/2015 13:23:04 | 55.12 | 49.12 | 143 | 0.24 | 0.37 | 7.8 |
| 4/18/2015 13:23:06 | 55.45 | 49.45 | 152 | 0.24 | 0.37 | 8.3 |
| 4/18/2015 13:23:08 | 55.77 | 49.77 | 180 | 0.24 | 0.37 | 9.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 13:23:10 | 56.10 | 50.10 | 182 | 0.24 | 0.37 | 10.0 |
| 4/18/2015 | 13:23:17 | 56.43 | 50.43 | 14 | 0.24 | 0.37 | 0.8 |
| 4/18/2015 | 13:23:20 | 56.76 | 50.76 | 117 | 0.24 | 0.37 | 6.4 |
| 4/18/2015 | 13:23:22 | 57.09 | 51.09 | 176 | 0.24 | 0.37 | 9.6 |
| 4/18/2015 | 13:23:24 | 57.41 | 51.41 | 173 | 0.24 | 0.37 | 9.4 |
| 4/18/2015 | 13:23:26 | 57.74 | 51.74 | 169 | 0.24 | 0.37 | 9.2 |
| 4/18/2015 | 13:23:29 | 58.07 | 52.07 | 121 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 | 13:23:32 | 58.40 | 52.40 | 109 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 | 13:23:35 | 58.73 | 52.73 | 110 | 0.24 | 0.37 | 6.0 |
| 4/18/2015 | 13:23:38 | 59.06 | 53.06 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 | 13:23:40 | 59.38 | 53.38 | 173 | 0.24 | 0.37 | 9.5 |
| 4/18/2015 | 13:23:43 | 59.71 | 53.71 | 140 | 0.24 | 0.37 | 7.7 |
| 4/18/2015 | 13:23:46 | 60.04 | 54.04 | 100 | 0.24 | 0.37 | 5.5 |
| 4/18/2015 | 13:23:49 | 60.37 | 54.37 | 118 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 | 13:23:53 | 60.70 | 54.70 | 113 | 0.24 | 0.37 | 6.2 |
| 4/18/2015 | 13:23:55 | 61.02 | 55.02 | 122 | 0.24 | 0.37 | 6.7 |
| 4/18/2015 | 13:23:56 | 61.16 | 55.16 | 124 | 0.24 | 0.37 | 6.8 |

## C1016 - Summary

**Pattern Number:**
AreaC_3rdAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 13:20:50

**End Date:**
4/18/2015 13:25:32

**Operator Note:**
'6 6.1 b No rock'

**Northing:**
371,355.83

**Easting:**
258,713.20

**Tide (feet):**
6.00



## Hole: C1017 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 13:17:26 | 36.09 | 30.09 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 13:17:27 | 36.42 | 30.42 | 716 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 13:17:27 | 36.75 | 30.75 | 723 | 1.52 | 0.26 | 39.5 |
| 4/18/2015 13:17:28 | 37.07 | 31.07 | 723 | 1.52 | 0.26 | 39.5 |
| 4/18/2015 13:17:28 | 37.40 | 31.40 | 726 | 1.40 | 0.26 | 39.7 |
| 4/18/2015 13:17:29 | 37.73 | 31.73 | 728 | 1.52 | 0.26 | 39.8 |
| 4/18/2015 13:17:29 | 38.06 | 32.06 | 734 | 1.52 | 0.26 | 40.1 |
| 4/18/2015 13:17:30 | 38.39 | 32.39 | 734 | 1.52 | 0.26 | 40.1 |
| 4/18/2015 13:17:30 | 38.71 | 32.71 | 731 | 1.54 | 0.26 | 40.0 |
| 4/18/2015 13:17:30 | 39.04 | 33.04 | 731 | 1.51 | 0.28 | 40.0 |
| 4/18/2015 13:17:31 | 39.37 | 33.37 | 723 | 1.52 | 0.26 | 39.5 |
| 4/18/2015 13:17:31 | 39.70 | 33.70 | 732 | 1.52 | 0.26 | 40.0 |
| 4/18/2015 13:17:32 | 40.03 | 34.03 | 729 | 1.51 | 0.26 | 39.9 |
| 4/18/2015 13:17:32 | 40.35 | 34.35 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 13:17:33 | 40.68 | 34.68 | 726 | 1.52 | 0.25 | 39.7 |
| 4/18/2015 13:17:33 | 41.01 | 35.01 | 733 | 1.53 | 0.25 | 40.1 |
| 4/18/2015 13:17:34 | 41.34 | 35.34 | 725 | 1.53 | 0.25 | 39.7 |
| 4/18/2015 13:17:34 | 41.67 | 35.67 | 723 | 1.53 | 0.26 | 39.5 |
| 4/18/2015 13:17:35 | 41.99 | 35.99 | 721 | 1.52 | 0.26 | 39.4 |
| 4/18/2015 13:17:36 | 42.32 | 36.32 | 726 | 1.53 | 0.25 | 39.7 |
| 4/18/2015 13:17:36 | 42.65 | 36.65 | 723 | 1.52 | 0.25 | 39.5 |
| 4/18/2015 13:17:37 | 42.98 | 36.98 | 723 | 1.53 | 0.25 | 39.5 |
| 4/18/2015 13:17:37 | 43.31 | 37.31 | 720 | 1.53 | 0.25 | 39.4 |
| 4/18/2015 13:17:38 | 43.64 | 37.64 | 724 | 1.53 | 0.26 | 39.6 |
| 4/18/2015 13:17:38 | 43.96 | 37.96 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 13:17:39 | 44.29 | 38.29 | 717 | 1.52 | 0.25 | 39.2 |
| 4/18/2015 13:17:39 | 44.62 | 38.62 | 710 | 1.53 | 0.26 | 38.8 |
| 4/18/2015 13:17:40 | 44.95 | 38.95 | 710 | 1.53 | 0.26 | 38.8 |
| 4/18/2015 13:17:40 | 45.28 | 39.28 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 13:17:40 | 45.60 | 39.60 | 707 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:17:41 | 45.93 | 39.93 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 13:17:41 | 46.26 | 40.26 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:17:42 | 46.59 | 40.59 | 711 | 1.52 | 0.26 | 38.9 |
| 4/18/2015 13:17:42 | 46.92 | 40.92 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 13:17:43 | 47.24 | 41.24 | 700 | 1.53 | 0.25 | 38.3 |
| 4/18/2015 13:17:43 | 47.57 | 41.57 | 700 | 1.53 | 0.25 | 38.3 |
| 4/18/2015 13:17:44 | 47.90 | 41.90 | 706 | 1.53 | 0.26 | 38.6 |
| 4/18/2015 13:17:44 | 48.23 | 42.23 | 706 | 1.52 | 0.25 | 38.6 |
| 4/18/2015 13:17:45 | 48.56 | 42.56 | 707 | 1.52 | 0.25 | 38.7 |
| 4/18/2015 13:17:46 | 48.88 | 42.88 | 703 | 1.53 | 0.25 | 38.4 |
| 4/18/2015 13:17:46 | 49.21 | 43.21 | 721 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 13:17:47 | 49.54 | 43.54 | 711 | 1.52 | 0.25 | 38.9 |
| 4/18/2015 13:17:47 | 49.87 | 43.87 | 716 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 13:17:48 | 50.20 | 44.20 | 711 | 1.52 | 0.25 | 38.9 |
| 4/18/2015 13:17:48 | 50.53 | 44.53 | 714 | 1.53 | 0.25 | 39.0 |
| 4/18/2015 13:17:49 | 50.85 | 44.85 | 711 | 1.62 | 0.25 | 38.9 |
| 4/18/2015 13:18:41 | 51.18 | 45.18 | 77 | 1.66 | 0.92 | 4.2 |
| 4/18/2015 13:18:42 | 51.51 | 45.51 | 214 | 1.70 | 1.10 | 11.7 |
| 4/18/2015 13:18:44 | 51.84 | 45.84 | 137 | 1.71 | 1.12 | 7.5 |
| 4/18/2015 13:18:49 | 52.17 | 46.17 | 68 | 1.66 | 0.90 | 3.7 |
| 4/18/2015 13:18:50 | 52.49 | 46.49 | 137 | 1.66 | 0.88 | 7.5 |
| 4/18/2015 13:18:51 | 52.82 | 46.82 | 235 | 1.73 | 0.92 | 12.9 |
| 4/18/2015 13:18:53 | 53.15 | 47.15 | 259 | 1.75 | 0.97 | 14.1 |
| 4/18/2015 13:18:55 | 53.48 | 47.48 | 196 | 1.77 | 1.00 | 10.7 |
| 4/18/2015 13:18:57 | 53.81 | 47.81 | 159 | 1.76 | 1.08 | 8.7 |
| 4/18/2015 13:19:01 | 54.13 | 48.13 | 109 | 1.75 | 1.11 | 5.9 |
| 4/18/2015 13:19:05 | 54.46 | 48.46 | 84 | 1.76 | 1.17 | 4.6 |
| 4/18/2015 13:19:08 | 54.79 | 48.79 | 104 | 1.76 | 1.12 | 5.7 |
| 4/18/2015 13:19:11 | 55.12 | 49.12 | 113 | 1.76 | 1.11 | 6.2 |
| 4/18/2015 13:19:14 | 55.45 | 49.45 | 124 | 1.75 | 1.10 | 6.8 |
| 4/18/2015 13:19:17 | 55.77 | 49.77 | 133 | 1.75 | 1.03 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 13:19:20 | 56.10 | 50.10 | 135 | 1.76 | 0.95 | 7.4 |
| 4/18/2015 | 13:19:22 | 56.43 | 50.43 | 132 | 1.76 | 1.00 | 7.2 |
| 4/18/2015 | 13:19:24 | 56.76 | 50.76 | 134 | 1.75 | 1.10 | 7.3 |
| 4/18/2015 | 13:19:27 | 57.09 | 51.09 | 136 | 1.79 | 1.09 | 7.5 |
| 4/18/2015 | 13:20:14 | 57.41 | 51.41 | 19 | 1.69 | 0.94 | 1.1 |
| 4/18/2015 | 13:20:16 | 57.74 | 51.74 | 139 | 1.76 | 1.12 | 7.6 |
| 4/18/2015 | 13:20:19 | 58.07 | 52.07 | 111 | 1.75 | 1.07 | 6.0 |
| 4/18/2015 | 13:20:22 | 58.40 | 52.40 | 149 | 1.76 | 1.02 | 8.1 |
| 4/18/2015 | 13:20:23 | 58.53 | 52.53 | 149 | 1.72 | 1.13 | 8.1 |

## C1017 - Summary

**Pattern Number:**
AreaC_3rdAdd-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 13:15:25

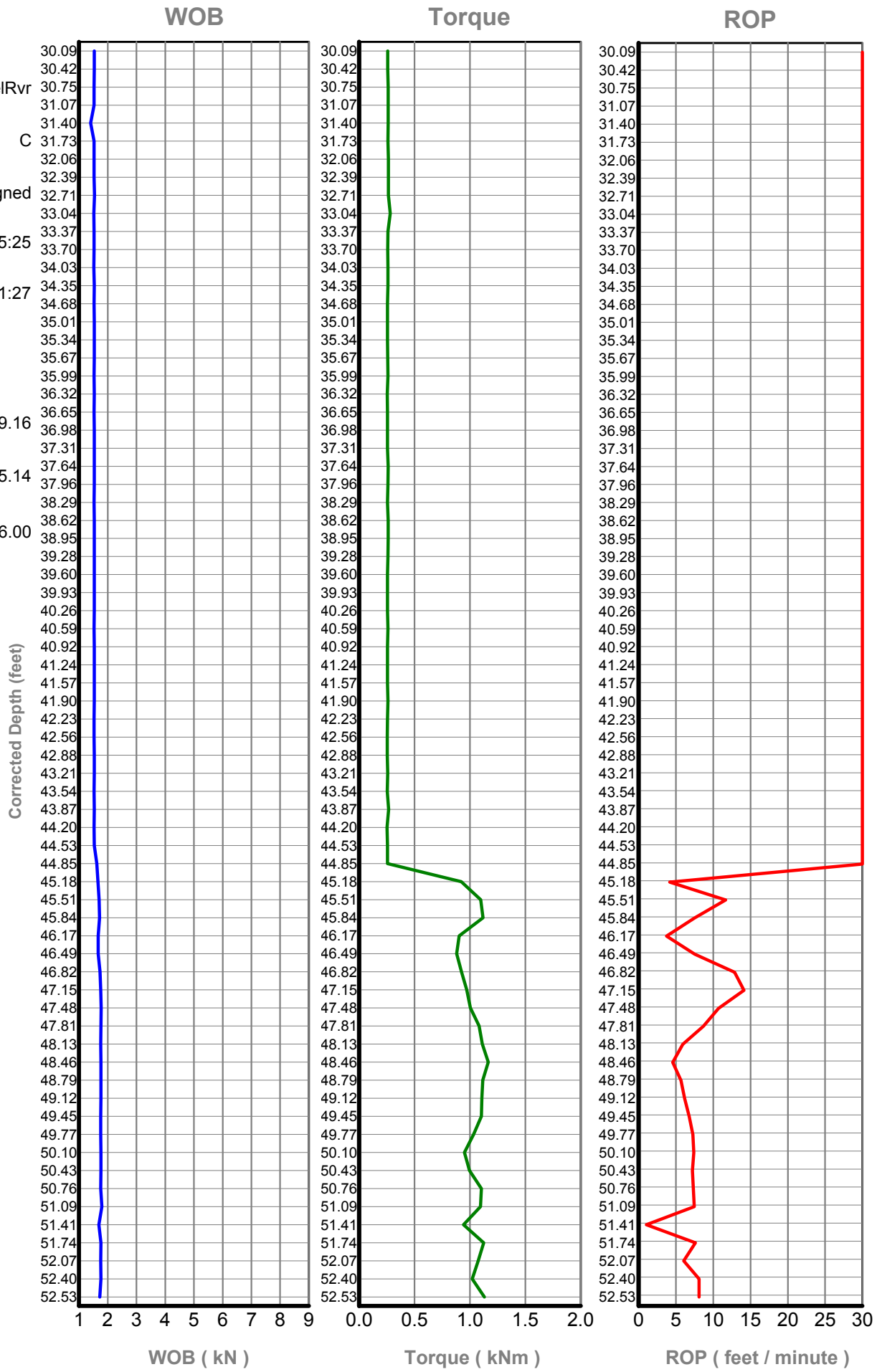
**End Date:**
4/18/2015 13:21:27

**Operator Note:**
'6 6.1 c Auto Complete'

**Northing:**
371,299.16

**Easting:**
258,735.14

**Tide (feet):**
6.00



## Hole: C1018 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 14:25:54 | 35.43 | 30.03 | 756 | 1.53 | 0.25 | 41.3 |
| 4/18/2015 14:25:54 | 35.76 | 30.36 | 760 | 1.52 | 0.25 | 41.6 |
| 4/18/2015 14:25:55 | 36.09 | 30.69 | 760 | 1.49 | 0.25 | 41.6 |
| 4/18/2015 14:25:55 | 36.42 | 31.02 | 765 | 1.51 | 0.25 | 41.8 |
| 4/18/2015 14:25:56 | 36.75 | 31.35 | 760 | 1.52 | 0.25 | 41.6 |
| 4/18/2015 14:25:56 | 37.07 | 31.67 | 766 | 1.51 | 0.25 | 41.9 |
| 4/18/2015 14:25:57 | 37.40 | 32.00 | 766 | 1.51 | 0.25 | 41.9 |
| 4/18/2015 14:25:57 | 37.73 | 32.33 | 766 | 1.52 | 0.25 | 41.9 |
| 4/18/2015 14:25:57 | 38.06 | 32.66 | 763 | 1.52 | 0.25 | 41.7 |
| 4/18/2015 14:25:58 | 38.39 | 32.99 | 758 | 1.51 | 0.25 | 41.5 |
| 4/18/2015 14:25:59 | 38.71 | 33.31 | 766 | 1.51 | 0.25 | 41.9 |
| 4/18/2015 14:25:59 | 39.04 | 33.64 | 763 | 1.51 | 0.25 | 41.7 |
| 4/18/2015 14:26:00 | 39.37 | 33.97 | 760 | 1.51 | 0.25 | 41.6 |
| 4/18/2015 14:26:00 | 39.70 | 34.30 | 760 | 1.52 | 0.25 | 41.6 |
| 4/18/2015 14:26:01 | 40.03 | 34.63 | 763 | 1.52 | 0.25 | 41.7 |
| 4/18/2015 14:26:01 | 40.35 | 34.95 | 760 | 1.53 | 0.25 | 41.6 |
| 4/18/2015 14:26:02 | 40.68 | 35.28 | 760 | 1.53 | 0.25 | 41.6 |
| 4/18/2015 14:26:02 | 41.01 | 35.61 | 757 | 1.52 | 0.25 | 41.4 |
| 4/18/2015 14:26:02 | 41.34 | 35.94 | 753 | 1.52 | 0.25 | 41.2 |
| 4/18/2015 14:26:03 | 41.67 | 36.27 | 760 | 1.52 | 0.25 | 41.6 |
| 4/18/2015 14:26:03 | 41.99 | 36.59 | 755 | 1.51 | 0.25 | 41.3 |
| 4/18/2015 14:26:04 | 42.32 | 36.92 | 755 | 1.51 | 0.25 | 41.3 |
| 4/18/2015 14:26:04 | 42.65 | 37.25 | 750 | 1.53 | 0.25 | 41.0 |
| 4/18/2015 14:26:05 | 42.98 | 37.58 | 758 | 1.52 | 0.25 | 41.4 |
| 4/18/2015 14:26:05 | 43.31 | 37.91 | 752 | 1.52 | 0.25 | 41.1 |
| 4/18/2015 14:26:06 | 43.64 | 38.24 | 752 | 1.52 | 0.24 | 41.1 |
| 4/18/2015 14:26:06 | 43.96 | 38.56 | 744 | 1.52 | 0.25 | 40.7 |
| 4/18/2015 14:26:07 | 44.29 | 38.89 | 753 | 1.51 | 0.25 | 41.2 |
| 4/18/2015 14:26:07 | 44.62 | 39.22 | 753 | 1.51 | 0.25 | 41.2 |
| 4/18/2015 14:26:07 | 44.95 | 39.55 | 743 | 1.51 | 0.25 | 40.6 |
| 4/18/2015 14:26:08 | 45.28 | 39.88 | 746 | 1.52 | 0.25 | 40.8 |
| 4/18/2015 14:26:09 | 45.60 | 40.20 | 743 | 1.51 | 0.25 | 40.6 |
| 4/18/2015 14:26:09 | 45.93 | 40.53 | 751 | 1.51 | 0.25 | 41.0 |
| 4/18/2015 14:26:10 | 46.26 | 40.86 | 746 | 1.53 | 0.25 | 40.8 |
| 4/18/2015 14:26:10 | 46.59 | 41.19 | 746 | 1.57 | 0.25 | 40.8 |
| 4/18/2015 14:26:11 | 46.92 | 41.52 | 743 | 1.52 | 0.25 | 40.6 |
| 4/18/2015 14:26:11 | 47.24 | 41.84 | 749 | 1.51 | 0.25 | 40.9 |
| 4/18/2015 14:26:12 | 47.57 | 42.17 | 741 | 1.52 | 0.25 | 40.5 |
| 4/18/2015 14:26:12 | 47.90 | 42.50 | 743 | 1.57 | 0.25 | 40.6 |
| 4/18/2015 14:26:13 | 48.23 | 42.83 | 743 | 1.53 | 0.25 | 40.6 |
| 4/18/2015 14:26:13 | 48.56 | 43.16 | 743 | 1.53 | 0.25 | 40.6 |
| 4/18/2015 14:26:13 | 48.88 | 43.48 | 749 | 1.52 | 0.25 | 40.9 |
| 4/18/2015 14:26:14 | 49.21 | 43.81 | 743 | 1.52 | 0.25 | 40.6 |
| 4/18/2015 14:26:14 | 49.54 | 44.14 | 743 | 1.53 | 0.25 | 40.6 |
| 4/18/2015 14:26:15 | 49.87 | 44.47 | 739 | 1.53 | 0.25 | 40.4 |
| 4/18/2015 14:26:15 | 50.20 | 44.80 | 746 | 1.56 | 0.25 | 40.8 |
| 4/18/2015 14:26:51 | 50.53 | 45.13 | 20 | 1.66 | 0.91 | 1.1 |
| 4/18/2015 14:26:53 | 50.85 | 45.45 | 204 | 1.71 | 1.03 | 11.2 |
| 4/18/2015 14:26:56 | 51.18 | 45.78 | 86 | 1.73 | 1.18 | 4.7 |
| 4/18/2015 14:27:03 | 51.51 | 46.11 | 32 | 1.74 | 1.15 | 1.7 |
| 4/18/2015 14:27:12 | 51.84 | 46.44 | 49 | 1.72 | 1.19 | 2.7 |
| 4/18/2015 14:27:15 | 52.17 | 46.77 | 119 | 1.69 | 0.95 | 6.5 |
| 4/18/2015 14:27:16 | 52.49 | 47.09 | 202 | 1.73 | 0.99 | 11.1 |
| 4/18/2015 14:27:19 | 52.82 | 47.42 | 156 | 1.74 | 1.05 | 8.5 |
| 4/18/2015 14:27:21 | 53.15 | 47.75 | 155 | 1.75 | 1.08 | 8.5 |
| 4/18/2015 14:27:23 | 53.48 | 48.08 | 180 | 1.74 | 0.89 | 9.9 |
| 4/18/2015 14:27:25 | 53.81 | 48.41 | 203 | 1.72 | 0.98 | 11.1 |
| 4/18/2015 14:27:27 | 54.13 | 48.73 | 172 | 1.74 | 0.95 | 9.4 |
| 4/18/2015 14:27:29 | 54.46 | 49.06 | 150 | 1.76 | 0.95 | 8.2 |
| 4/18/2015 14:27:32 | 54.79 | 49.39 | 123 | 1.75 | 1.01 | 6.7 |
| 4/18/2015 14:27:34 | 55.12 | 49.72 | 153 | 1.73 | 1.03 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 14:27:37 | 55.45 | 50.05 | 155 | 1.74 | 1.00 | 8.5 |
| 4/18/2015 | 14:27:38 | 55.77 | 50.37 | 168 | 1.73 | 1.00 | 9.2 |
| 4/18/2015 | 14:27:41 | 56.10 | 50.70 | 162 | 1.75 | 0.94 | 8.9 |
| 4/18/2015 | 14:27:44 | 56.43 | 51.03 | 119 | 1.76 | 1.00 | 6.5 |
| 4/18/2015 | 14:27:47 | 56.76 | 51.36 | 135 | 1.75 | 1.11 | 7.4 |
| 4/18/2015 | 14:27:49 | 57.09 | 51.69 | 133 | 1.76 | 0.93 | 7.3 |
| 4/18/2015 | 14:27:52 | 57.41 | 52.01 | 136 | 1.74 | 1.01 | 7.4 |
| 4/18/2015 | 14:27:56 | 57.74 | 52.34 | 93 | 1.74 | 1.07 | 5.1 |
| 4/18/2015 | 14:27:59 | 58.07 | 52.67 | 118 | 1.76 | 1.14 | 6.5 |
| 4/18/2015 | 14:28:00 | 58.16 | 52.76 | 110 | 1.74 | 1.17 | 6.0 |

## C1018 - Summary

**Pattern Number:**
AreaC_4thAdd-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 14:24:07

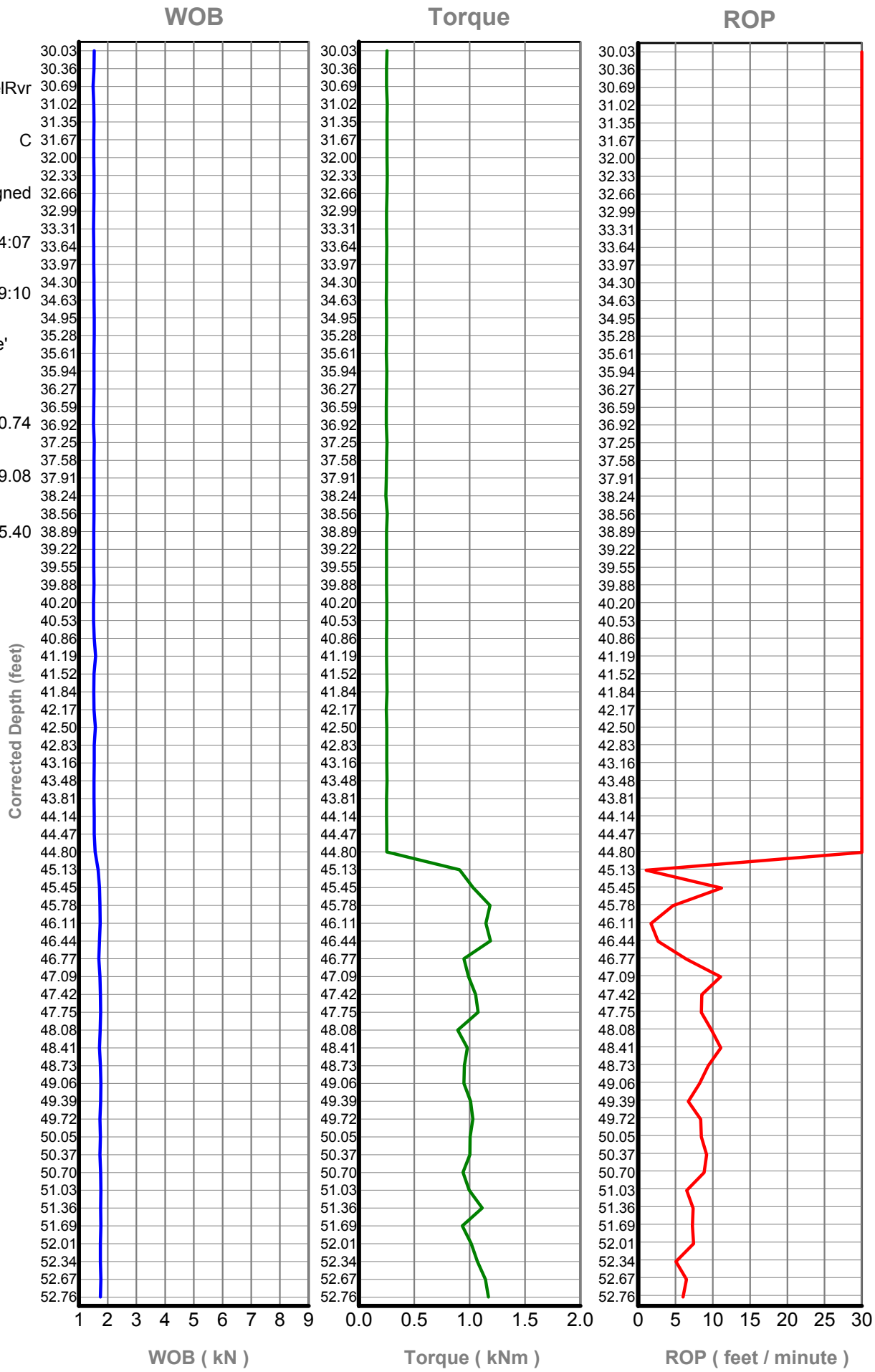
**End Date:**
4/18/2015 14:29:10

**Operator Note:**
'5.4 5.8 c Auto Complete'

**Northing:**
371,070.74

**Easting:**
258,599.08

**Tide (feet):**
5.40



## Hole: C1019 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 14:30:44 | 35.43 | 30.13 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 14:30:44 | 35.76 | 30.46 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 14:30:44 | 36.09 | 30.79 | 1,142 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 14:30:45 | 36.42 | 31.12 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 14:30:46 | 36.75 | 31.45 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 14:30:45 | 37.07 | 31.77 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 14:30:46 | 37.40 | 32.10 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 14:30:46 | 37.73 | 32.43 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 14:30:47 | 38.06 | 32.76 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 14:30:47 | 38.39 | 33.09 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 14:30:47 | 38.71 | 33.41 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 14:30:48 | 39.04 | 33.74 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 14:30:48 | 39.37 | 34.07 | 1,142 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 14:30:48 | 39.70 | 34.40 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 14:30:49 | 40.03 | 34.73 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 14:30:49 | 40.35 | 35.05 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 14:30:49 | 40.68 | 35.38 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 14:30:50 | 41.01 | 35.71 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 14:30:50 | 41.34 | 36.04 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 14:30:50 | 41.67 | 36.37 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 14:30:51 | 41.99 | 36.69 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 14:30:51 | 42.32 | 37.02 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 14:30:51 | 42.65 | 37.35 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 14:30:52 | 42.98 | 37.68 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 14:30:52 | 43.31 | 38.01 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 14:30:52 | 43.64 | 38.34 | 1,011 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 14:30:52 | 43.96 | 38.66 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 14:30:53 | 44.29 | 38.99 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:30:53 | 44.62 | 39.32 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:30:53 | 44.95 | 39.65 | 1,138 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 14:30:54 | 45.28 | 39.98 | 1,159 | 0.24 | 0.37 | 63.4 |
| 4/18/2015 14:30:54 | 45.60 | 40.30 | 1,159 | 0.24 | 0.37 | 63.4 |
| 4/18/2015 14:30:54 | 45.93 | 40.63 | 1,159 | 0.24 | 0.37 | 63.4 |
| 4/18/2015 14:30:55 | 46.26 | 40.96 | 1,159 | 0.24 | 0.37 | 63.4 |
| 4/18/2015 14:30:55 | 46.59 | 41.29 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 14:30:55 | 46.92 | 41.62 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 14:30:55 | 47.24 | 41.94 | 1,141 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 14:30:56 | 47.57 | 42.27 | 1,149 | 0.24 | 0.37 | 62.9 |
| 4/18/2015 14:30:56 | 47.90 | 42.60 | 1,149 | 0.24 | 0.37 | 62.9 |
| 4/18/2015 14:30:57 | 48.23 | 42.93 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 14:30:57 | 48.56 | 43.26 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 14:30:57 | 48.88 | 43.58 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 14:30:58 | 49.21 | 43.91 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 14:30:58 | 49.54 | 44.24 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 14:30:58 | 49.87 | 44.57 | 1,124 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 14:30:59 | 50.20 | 44.90 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 14:30:59 | 50.53 | 45.23 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 14:30:59 | 50.85 | 45.55 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:31:00 | 51.18 | 45.88 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:31:00 | 51.51 | 46.21 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:31:00 | 51.84 | 46.54 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:31:01 | 52.17 | 46.87 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 14:31:13 | 52.49 | 47.19 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 14:31:16 | 52.82 | 47.52 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 14:31:17 | 53.15 | 47.85 | 154 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 14:31:19 | 53.48 | 48.18 | 193 | 0.24 | 0.37 | 10.6 |
| 4/18/2015 14:31:21 | 53.81 | 48.51 | 221 | 0.24 | 0.37 | 12.1 |
| 4/18/2015 14:31:22 | 54.13 | 48.83 | 252 | 0.24 | 0.37 | 13.8 |
| 4/18/2015 14:31:23 | 54.46 | 49.16 | 268 | 0.24 | 0.37 | 14.7 |
| 4/18/2015 14:31:25 | 54.79 | 49.49 | 263 | 0.24 | 0.37 | 14.4 |
| 4/18/2015 14:31:26 | 55.12 | 49.82 | 250 | 0.24 | 0.37 | 13.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 14:31:28 | 55.45 | 50.15 | 234 | 0.24 | 0.37 | 12.8 |
| 4/18/2015 | 14:31:29 | 55.77 | 50.47 | 214 | 0.24 | 0.37 | 11.7 |
| 4/18/2015 | 14:31:30 | 56.10 | 50.80 | 242 | 0.24 | 0.37 | 13.2 |
| 4/18/2015 | 14:31:32 | 56.43 | 51.13 | 260 | 0.24 | 0.37 | 14.2 |
| 4/18/2015 | 14:31:34 | 56.76 | 51.46 | 261 | 0.24 | 0.37 | 14.3 |
| 4/18/2015 | 14:31:35 | 57.09 | 51.79 | 304 | 0.24 | 0.37 | 16.6 |
| 4/18/2015 | 14:31:36 | 57.41 | 52.11 | 315 | 0.24 | 0.37 | 17.2 |
| 4/18/2015 | 14:31:37 | 57.74 | 52.44 | 311 | 0.24 | 0.37 | 17.0 |
| 4/18/2015 | 14:31:38 | 58.07 | 52.77 | 300 | 0.24 | 0.37 | 16.4 |
| 4/18/2015 | 14:31:39 | 58.40 | 53.10 | 321 | 0.24 | 0.37 | 17.5 |
| 4/18/2015 | 14:31:40 | 58.73 | 53.43 | 332 | 0.24 | 0.37 | 18.2 |
| 4/18/2015 | 14:31:41 | 59.06 | 53.76 | 312 | 0.24 | 0.37 | 17.1 |
| 4/18/2015 | 14:31:43 | 59.38 | 54.08 | 279 | 0.24 | 0.37 | 15.3 |
| 4/18/2015 | 14:31:44 | 59.71 | 54.41 | 285 | 0.24 | 0.37 | 15.6 |
| 4/18/2015 | 14:31:45 | 60.04 | 54.74 | 325 | 0.24 | 0.37 | 17.8 |
| 4/18/2015 | 14:31:46 | 60.37 | 55.07 | 337 | 0.24 | 0.37 | 18.4 |
| 4/18/2015 | 14:31:48 | 60.70 | 55.40 | 265 | 0.24 | 0.37 | 14.5 |
| 4/18/2015 | 14:31:49 | 60.93 | 55.63 | 214 | 0.24 | 0.37 | 11.7 |

## C1019 - Summary

**Pattern Number:**
AreaC_4thAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 14:29:38

**End Date:**
4/18/2015 14:33:38

**Operator Note:**
'5.3 5.8 b No rock'

**Northing:**
371,096.17

**Easting:**
258,659.51

**Tide (feet):**
5.30



## Hole: C1020 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 14:25:42 | 35.43 | 30.03 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 14:25:43 | 35.76 | 30.36 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 14:25:43 | 36.09 | 30.69 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 14:25:43 | 36.42 | 31.02 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 14:25:44 | 36.75 | 31.35 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 14:25:44 | 37.07 | 31.67 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 14:25:44 | 37.40 | 32.00 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 14:25:45 | 37.73 | 32.33 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:45 | 38.06 | 32.66 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:45 | 38.39 | 32.99 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:46 | 38.71 | 33.31 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:46 | 39.04 | 33.64 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 14:25:46 | 39.37 | 33.97 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 14:25:47 | 39.70 | 34.30 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 14:25:47 | 40.03 | 34.63 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:47 | 40.35 | 34.95 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 14:25:48 | 40.68 | 35.28 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 14:25:48 | 41.01 | 35.61 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 14:25:48 | 41.34 | 35.94 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:49 | 41.67 | 36.27 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 14:25:49 | 41.99 | 36.59 | 1,063 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 14:25:49 | 42.32 | 36.92 | 1,063 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 14:25:49 | 42.65 | 37.25 | 1,063 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 14:25:50 | 42.98 | 37.58 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:50 | 43.31 | 37.91 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:50 | 43.64 | 38.24 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:51 | 43.96 | 38.56 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 14:25:52 | 44.29 | 38.89 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 14:25:51 | 44.62 | 39.22 | 1,073 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:52 | 44.95 | 39.55 | 1,073 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 14:25:52 | 45.28 | 39.88 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 14:25:53 | 45.60 | 40.20 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 14:25:53 | 45.93 | 40.53 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 14:25:53 | 46.26 | 40.86 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:25:54 | 46.59 | 41.19 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:25:54 | 46.92 | 41.52 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 14:25:54 | 47.24 | 41.84 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 14:25:55 | 47.57 | 42.17 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 14:25:55 | 47.90 | 42.50 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:25:55 | 48.23 | 42.83 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:25:56 | 48.56 | 43.16 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:25:56 | 48.88 | 43.48 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 14:25:56 | 49.21 | 43.81 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:25:57 | 49.54 | 44.14 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 14:25:57 | 49.87 | 44.47 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:25:57 | 50.20 | 44.80 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 14:26:35 | 50.53 | 45.13 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 14:26:35 | 50.85 | 45.45 | 39 | 0.24 | 0.37 | 2.2 |
| 4/18/2015 14:26:36 | 51.18 | 45.78 | 239 | 0.24 | 0.37 | 13.1 |
| 4/18/2015 14:26:36 | 51.51 | 46.11 | 239 | 0.24 | 0.37 | 13.1 |
| 4/18/2015 14:26:36 | 51.84 | 46.44 | 239 | 0.24 | 0.37 | 13.1 |
| 4/18/2015 14:26:50 | 52.17 | 46.77 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 14:26:54 | 52.49 | 47.09 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 14:26:58 | 52.82 | 47.42 | 43 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 14:26:59 | 53.15 | 47.75 | 190 | 0.24 | 0.37 | 10.4 |
| 4/18/2015 14:27:00 | 53.48 | 48.08 | 338 | 0.24 | 0.37 | 18.5 |
| 4/18/2015 14:27:06 | 53.81 | 48.41 | 21 | 0.24 | 0.37 | 1.1 |
| 4/18/2015 14:27:09 | 54.13 | 48.73 | 120 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 14:27:12 | 54.46 | 49.06 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 14:27:13 | 54.79 | 49.39 | 156 | 0.24 | 0.37 | 8.5 |
| 4/18/2015 14:27:14 | 55.12 | 49.72 | 208 | 0.24 | 0.37 | 11.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 14:27:15 | 55.45 | 50.05 | 316 | 0.24 | 0.37 | 17.3 |
| 4/18/2015 | 14:27:17 | 55.77 | 50.37 | 324 | 0.24 | 0.37 | 17.7 |
| 4/18/2015 | 14:27:18 | 56.10 | 50.70 | 306 | 0.24 | 0.37 | 16.7 |
| 4/18/2015 | 14:27:20 | 56.43 | 51.03 | 262 | 0.24 | 0.37 | 14.3 |
| 4/18/2015 | 14:27:21 | 56.76 | 51.36 | 222 | 0.24 | 0.37 | 12.1 |
| 4/18/2015 | 14:27:23 | 57.09 | 51.69 | 216 | 0.24 | 0.37 | 11.8 |
| 4/18/2015 | 14:27:24 | 57.41 | 52.01 | 229 | 0.24 | 0.37 | 12.5 |
| 4/18/2015 | 14:27:25 | 57.74 | 52.34 | 278 | 0.24 | 0.37 | 15.2 |
| 4/18/2015 | 14:27:26 | 58.07 | 52.67 | 330 | 0.24 | 0.37 | 18.0 |
| 4/18/2015 | 14:27:27 | 58.40 | 53.00 | 332 | 0.24 | 0.37 | 18.1 |
| 4/18/2015 | 14:27:29 | 58.73 | 53.33 | 305 | 0.24 | 0.37 | 16.7 |
| 4/18/2015 | 14:27:30 | 59.06 | 53.66 | 303 | 0.24 | 0.37 | 16.5 |
| 4/18/2015 | 14:27:31 | 59.38 | 53.98 | 308 | 0.24 | 0.37 | 16.9 |
| 4/18/2015 | 14:27:32 | 59.71 | 54.31 | 257 | 0.24 | 0.37 | 14.1 |
| 4/18/2015 | 14:27:34 | 60.04 | 54.64 | 194 | 0.24 | 0.37 | 10.6 |
| 4/18/2015 | 14:27:37 | 60.37 | 54.97 | 146 | 0.24 | 0.37 | 8.0 |
| 4/18/2015 | 14:27:38 | 60.70 | 55.30 | 171 | 0.24 | 0.37 | 9.4 |
| 4/18/2015 | 14:27:39 | 60.86 | 55.46 | 201 | 0.24 | 0.37 | 11.0 |

## C1020 - Summary

**Pattern Number:**
AreaC_4thAdd-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 14:22:50

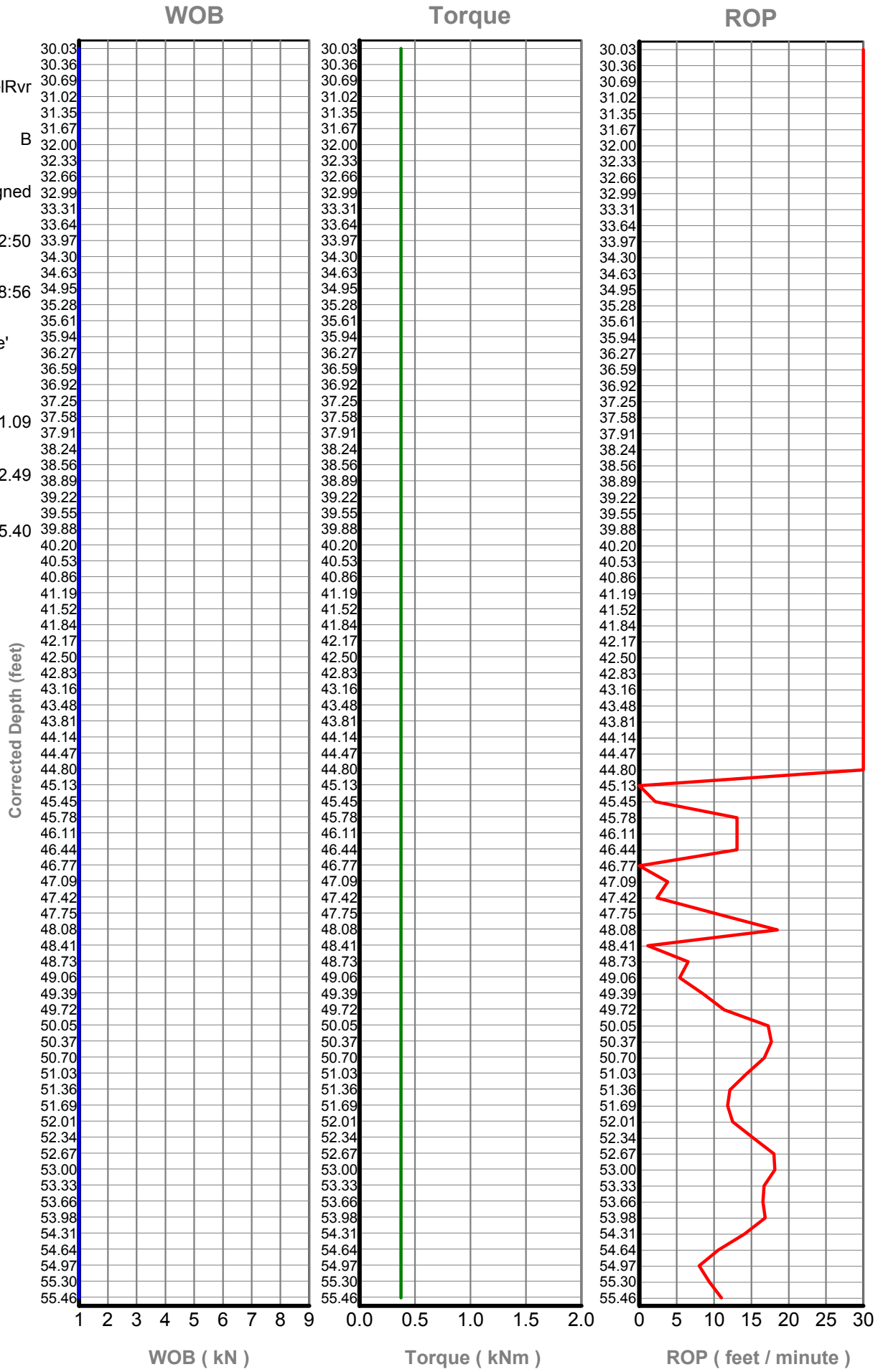
**End Date:**
4/18/2015 14:28:56

**Operator Note:**
'5.4 5.8 b Auto Complete'

**Northing:**
371,121.09

**Easting:**
258,722.49

**Tide (feet):**
5.40



## Hole: C11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:01:25 | 32.15 | 30.15 | 1,130 | 0.48 | 0.32 | 61.8 |
| 4/17/2015 17:01:25 | 32.48 | 30.48 | 1,118 | 0.48 | 0.32 | 61.1 |
| 4/17/2015 17:01:25 | 32.81 | 30.81 | 1,127 | 0.48 | 0.33 | 61.7 |
| 4/17/2015 17:01:26 | 33.14 | 31.14 | 1,127 | 0.48 | 0.33 | 61.7 |
| 4/17/2015 17:01:26 | 33.46 | 31.46 | 1,125 | 0.48 | 0.32 | 61.5 |
| 4/17/2015 17:01:26 | 33.79 | 31.79 | 1,125 | 0.48 | 0.32 | 61.5 |
| 4/17/2015 17:01:26 | 34.12 | 32.12 | 1,116 | 0.48 | 0.32 | 61.0 |
| 4/17/2015 17:01:27 | 34.45 | 32.45 | 1,126 | 0.48 | 0.32 | 61.6 |
| 4/17/2015 17:01:27 | 34.78 | 32.78 | 1,126 | 0.48 | 0.32 | 61.6 |
| 4/17/2015 17:01:27 | 35.11 | 33.11 | 1,141 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 17:01:28 | 35.43 | 33.43 | 1,141 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 17:01:28 | 35.76 | 33.76 | 1,146 | 0.47 | 0.32 | 62.6 |
| 4/17/2015 17:01:28 | 36.09 | 34.09 | 1,135 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 17:01:29 | 36.42 | 34.42 | 1,135 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 17:01:29 | 36.75 | 34.75 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 17:01:30 | 37.07 | 35.07 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 17:01:30 | 37.40 | 35.40 | 1,094 | 0.48 | 0.33 | 59.8 |
| 4/17/2015 17:01:30 | 37.73 | 35.73 | 1,094 | 0.47 | 0.32 | 59.8 |
| 4/17/2015 17:01:31 | 38.06 | 36.06 | 1,094 | 0.47 | 0.32 | 59.8 |
| 4/17/2015 17:01:31 | 38.39 | 36.39 | 1,121 | 0.48 | 0.32 | 61.3 |
| 4/17/2015 17:01:31 | 38.71 | 36.71 | 1,121 | 0.48 | 0.32 | 61.3 |
| 4/17/2015 17:01:31 | 39.04 | 37.04 | 1,101 | 0.48 | 0.33 | 60.2 |
| 4/17/2015 17:01:32 | 39.37 | 37.37 | 1,089 | 0.47 | 0.33 | 59.5 |
| 4/17/2015 17:01:32 | 39.70 | 37.70 | 1,089 | 0.47 | 0.33 | 59.5 |
| 4/17/2015 17:01:56 | 40.03 | 38.03 | 69 | 4.02 | 0.45 | 3.8 |
| 4/17/2015 17:02:02 | 40.35 | 38.35 | 75 | 3.58 | 0.42 | 4.1 |
| 4/17/2015 17:02:05 | 40.68 | 38.68 | 98 | 4.04 | 0.40 | 5.4 |
| 4/17/2015 17:02:08 | 41.01 | 39.01 | 101 | 3.87 | 0.47 | 5.5 |
| 4/17/2015 17:02:14 | 41.34 | 39.34 | 49 | 4.68 | 0.53 | 2.7 |
| 4/17/2015 17:02:22 | 41.67 | 39.67 | 43 | 3.95 | 0.51 | 2.4 |
| 4/17/2015 17:02:35 | 41.99 | 39.99 | 26 | 3.59 | 0.52 | 1.4 |
| 4/17/2015 17:02:49 | 42.32 | 40.32 | 23 | 3.82 | 0.52 | 1.3 |
| 4/17/2015 17:03:05 | 42.65 | 40.65 | 23 | 3.25 | 0.54 | 1.3 |
| 4/17/2015 17:03:11 | 42.78 | 40.78 | 23 | 3.59 | 0.56 | 1.3 |

## C11 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:00:13

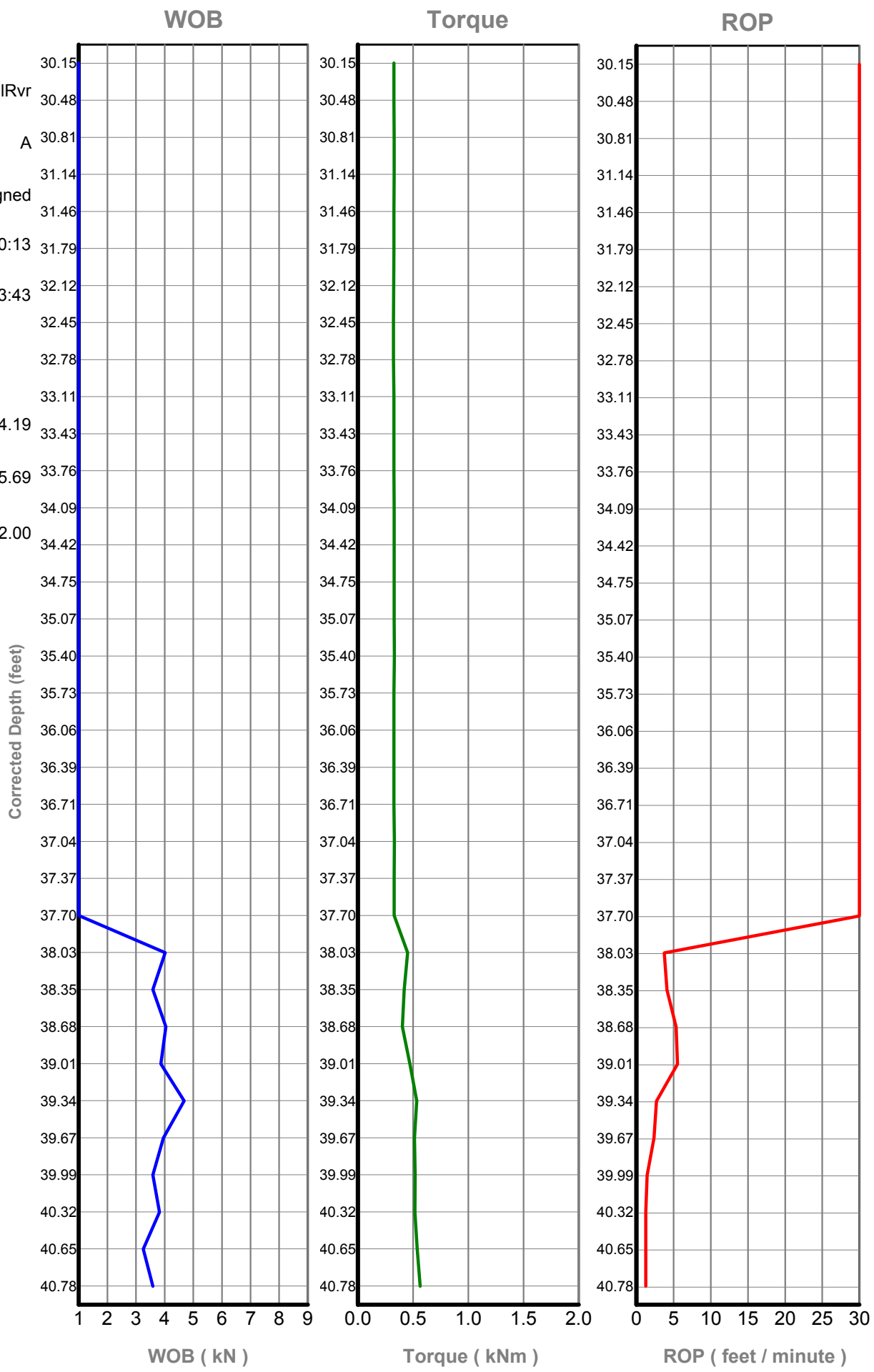
**End Date:**
4/17/2015 17:03:43

**Operator Note:**
'2 2.3 a Auto Complete'

**Northing:**
371,344.19

**Easting:**
258,305.69

**Tide (feet):**
2.00



## Hole: C12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:01:00 | 32.15 | 30.25 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:01:01 | 32.48 | 30.58 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:01:02 | 32.81 | 30.91 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:01:02 | 33.14 | 31.24 | 610 | 2.12 | 0.26 | 33.4 |
| 4/17/2015 17:01:03 | 33.46 | 31.56 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:01:03 | 33.79 | 31.89 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:01:04 | 34.12 | 32.22 | 614 | 2.13 | 0.26 | 33.6 |
| 4/17/2015 17:01:04 | 34.45 | 32.55 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:01:05 | 34.78 | 32.88 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:01:05 | 35.11 | 33.21 | 613 | 2.12 | 0.26 | 33.5 |
| 4/17/2015 17:01:06 | 35.43 | 33.53 | 603 | 2.13 | 0.26 | 33.0 |
| 4/17/2015 17:01:07 | 35.76 | 33.86 | 604 | 2.13 | 0.26 | 33.0 |
| 4/17/2015 17:01:08 | 36.09 | 34.19 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:01:08 | 36.42 | 34.52 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 17:01:09 | 36.75 | 34.85 | 610 | 2.12 | 0.25 | 33.4 |
| 4/17/2015 17:01:09 | 37.07 | 35.17 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:01:10 | 37.40 | 35.50 | 606 | 2.14 | 0.26 | 33.1 |
| 4/17/2015 17:01:10 | 37.73 | 35.83 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:01:11 | 38.06 | 36.16 | 610 | 2.12 | 0.26 | 33.4 |
| 4/17/2015 17:01:12 | 38.39 | 36.49 | 610 | 2.12 | 0.26 | 33.4 |
| 4/17/2015 17:01:12 | 38.71 | 36.81 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 17:01:13 | 39.04 | 37.14 | 597 | 2.13 | 0.26 | 32.6 |
| 4/17/2015 17:01:13 | 39.37 | 37.47 | 597 | 2.12 | 0.26 | 32.6 |
| 4/17/2015 17:01:14 | 39.70 | 37.80 | 600 | 2.14 | 0.26 | 32.8 |
| 4/17/2015 17:01:14 | 40.03 | 38.13 | 604 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 17:01:15 | 40.35 | 38.45 | 591 | 2.14 | 0.26 | 32.3 |
| 4/17/2015 17:01:16 | 40.68 | 38.78 | 599 | 2.14 | 0.26 | 32.8 |
| 4/17/2015 17:01:17 | 41.01 | 39.11 | 600 | 2.14 | 0.26 | 32.8 |
| 4/17/2015 17:01:17 | 41.34 | 39.44 | 593 | 2.14 | 0.26 | 32.4 |
| 4/17/2015 17:01:18 | 41.67 | 39.77 | 597 | 2.12 | 0.26 | 32.6 |
| 4/17/2015 17:01:18 | 41.99 | 40.09 | 597 | 2.13 | 0.26 | 32.6 |
| 4/17/2015 17:01:19 | 42.32 | 40.42 | 615 | 2.14 | 0.26 | 33.6 |
| 4/17/2015 17:01:19 | 42.65 | 40.75 | 614 | 2.14 | 0.26 | 33.6 |
| 4/17/2015 17:01:20 | 42.98 | 41.08 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:01:21 | 43.31 | 41.41 | 612 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:01:21 | 43.64 | 41.74 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 17:01:22 | 43.96 | 42.06 | 601 | 2.13 | 0.26 | 32.8 |
| 4/17/2015 17:01:22 | 44.29 | 42.39 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:01:23 | 44.62 | 42.72 | 604 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 17:01:23 | 44.95 | 43.05 | 604 | 2.17 | 0.26 | 33.0 |
| 4/17/2015 17:01:48 | 45.28 | 43.38 | 0 | 2.17 | 1.01 | 0.0 |
| 4/17/2015 17:01:49 | 45.60 | 43.70 | 177 | 2.18 | 1.08 | 9.7 |
| 4/17/2015 17:01:50 | 45.93 | 44.03 | 265 | 2.20 | 1.15 | 14.5 |
| 4/17/2015 17:01:51 | 46.26 | 44.36 | 362 | 2.25 | 1.19 | 19.8 |
| 4/17/2015 17:01:53 | 46.59 | 44.69 | 191 | 2.27 | 1.19 | 10.4 |
| 4/17/2015 17:01:58 | 46.92 | 45.02 | 44 | 2.30 | 1.22 | 2.4 |
| 4/17/2015 17:02:02 | 47.24 | 45.34 | 94 | 2.33 | 1.16 | 5.2 |
| 4/17/2015 17:02:04 | 47.57 | 45.67 | 116 | 2.33 | 1.14 | 6.4 |
| 4/17/2015 17:02:08 | 47.90 | 46.00 | 98 | 2.31 | 1.22 | 5.4 |
| 4/17/2015 17:02:12 | 48.23 | 46.33 | 106 | 2.32 | 1.27 | 5.8 |
| 4/17/2015 17:02:15 | 48.56 | 46.66 | 110 | 2.33 | 1.27 | 6.0 |
| 4/17/2015 17:17:25 | 48.81 | 46.91 | 48 | 3.58 | 0.42 | 2.7 |
| 4/17/2015 17:02:19 | 48.88 | 46.98 | 73 | 2.33 | 1.20 | 4.0 |
| 4/17/2015 17:02:24 | 49.21 | 47.31 | 77 | 2.33 | 1.24 | 4.2 |
| 4/17/2015 17:02:28 | 49.54 | 47.64 | 75 | 2.33 | 1.25 | 4.1 |
| 4/17/2015 17:02:34 | 49.87 | 47.97 | 58 | 2.33 | 1.34 | 3.2 |
| 4/17/2015 17:02:39 | 50.20 | 48.30 | 69 | 2.35 | 1.45 | 3.8 |
| 4/17/2015 17:02:41 | 50.33 | 48.43 | 75 | 2.33 | 1.29 | 4.1 |

## C12 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:12:10

**End Date:**
4/17/2015 17:18:54

**Operator Note:**
'1.9 2.0 b Rock @47.5"

**Northing:**
371,401.89

**Easting:**
258,444.15

**Tide (feet):**
1.90



## Hole: C13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 4:29:15 | 33.46 | 30.26 | 1,003 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 4:29:16 | 33.79 | 30.59 | 1,003 | 0.22 | 0.35 | 54.9 |
| 4/18/2015 4:29:16 | 34.12 | 30.92 | 1,003 | 0.22 | 0.35 | 54.9 |
| 4/18/2015 4:29:16 | 34.45 | 31.25 | 989 | 0.17 | 0.34 | 54.1 |
| 4/18/2015 4:29:17 | 34.78 | 31.58 | 995 | 0.17 | 0.34 | 54.4 |
| 4/18/2015 4:29:17 | 35.11 | 31.91 | 995 | 0.17 | 0.34 | 54.4 |
| 4/18/2015 4:29:17 | 35.43 | 32.23 | 992 | 0.17 | 0.34 | 54.2 |
| 4/18/2015 4:29:18 | 35.76 | 32.56 | 992 | 0.16 | 0.34 | 54.2 |
| 4/18/2015 4:29:18 | 36.09 | 32.89 | 992 | 0.16 | 0.34 | 54.2 |
| 4/18/2015 4:29:18 | 36.42 | 33.22 | 992 | 0.22 | 0.34 | 54.2 |
| 4/18/2015 4:29:19 | 36.75 | 33.55 | 995 | 0.17 | 0.34 | 54.4 |
| 4/18/2015 4:29:19 | 37.07 | 33.87 | 989 | 0.17 | 0.34 | 54.1 |
| 4/18/2015 4:29:20 | 37.40 | 34.20 | 989 | 0.17 | 0.34 | 54.1 |
| 4/18/2015 4:29:20 | 37.73 | 34.53 | 989 | 0.17 | 0.36 | 54.1 |
| 4/18/2015 4:29:20 | 38.06 | 34.86 | 977 | 0.17 | 0.34 | 53.4 |
| 4/18/2015 4:29:21 | 38.39 | 35.19 | 977 | 0.17 | 0.34 | 53.4 |
| 4/18/2015 4:29:21 | 38.71 | 35.51 | 986 | 0.18 | 0.34 | 53.9 |
| 4/18/2015 4:29:21 | 39.04 | 35.84 | 989 | 0.17 | 0.35 | 54.1 |
| 4/18/2015 4:29:22 | 39.37 | 36.17 | 989 | 0.17 | 0.35 | 54.1 |
| 4/18/2015 4:29:22 | 39.70 | 36.50 | 992 | 0.17 | 0.34 | 54.2 |
| 4/18/2015 4:29:22 | 40.03 | 36.83 | 989 | 0.17 | 0.34 | 54.1 |
| 4/18/2015 4:29:23 | 40.35 | 37.15 | 992 | 0.17 | 0.35 | 54.2 |
| 4/18/2015 4:29:24 | 40.68 | 37.48 | 992 | 0.17 | 0.35 | 54.2 |
| 4/18/2015 4:29:24 | 41.01 | 37.81 | 983 | 0.17 | 0.34 | 53.7 |
| 4/18/2015 4:29:24 | 41.34 | 38.14 | 980 | 0.17 | 0.35 | 53.6 |
| 4/18/2015 4:29:25 | 41.67 | 38.47 | 980 | 0.17 | 0.35 | 53.6 |
| 4/18/2015 4:29:25 | 41.99 | 38.79 | 980 | 0.17 | 0.34 | 53.6 |
| 4/18/2015 4:29:25 | 42.32 | 39.12 | 983 | 0.17 | 0.34 | 53.7 |
| 4/18/2015 4:29:26 | 42.65 | 39.45 | 983 | 0.17 | 0.34 | 53.7 |
| 4/18/2015 4:29:26 | 42.98 | 39.78 | 980 | 0.17 | 0.34 | 53.6 |
| 4/18/2015 4:29:26 | 43.31 | 40.11 | 986 | 0.18 | 0.34 | 53.9 |
| 4/18/2015 4:29:27 | 43.64 | 40.44 | 986 | 0.18 | 0.34 | 53.9 |
| 4/18/2015 4:29:27 | 43.96 | 40.76 | 991 | 0.17 | 0.35 | 54.2 |
| 4/18/2015 4:29:27 | 44.29 | 41.09 | 991 | 0.17 | 0.34 | 54.2 |
| 4/18/2015 4:29:28 | 44.62 | 41.42 | 991 | 0.17 | 0.34 | 54.2 |
| 4/18/2015 4:29:28 | 44.95 | 41.75 | 991 | 0.17 | 0.34 | 54.2 |
| 4/18/2015 4:29:28 | 45.28 | 42.08 | 1,003 | 0.19 | 0.34 | 54.8 |
| 4/18/2015 4:29:29 | 45.60 | 42.40 | 1,000 | 0.16 | 0.36 | 54.7 |
| 4/18/2015 4:29:29 | 45.93 | 42.73 | 1,000 | 0.16 | 0.36 | 54.7 |
| 4/18/2015 4:30:11 | 46.26 | 43.06 | 0 | 2.70 | 0.38 | 0.0 |
| 4/18/2015 4:30:15 | 46.59 | 43.39 | 89 | 4.02 | 0.38 | 4.9 |
| 4/18/2015 4:30:17 | 46.92 | 43.72 | 165 | 4.53 | 0.41 | 9.0 |
| 4/18/2015 4:30:20 | 47.24 | 44.04 | 144 | 3.34 | 0.41 | 7.9 |
| 4/18/2015 4:30:21 | 47.57 | 44.37 | 155 | 3.17 | 0.39 | 8.5 |
| 4/18/2015 4:30:23 | 47.90 | 44.70 | 220 | 2.38 | 0.39 | 12.0 |
| 4/18/2015 4:30:27 | 48.23 | 45.03 | 77 | 2.76 | 0.40 | 4.2 |
| 4/18/2015 4:30:30 | 48.56 | 45.36 | 92 | 6.27 | 0.40 | 5.0 |
| 4/18/2015 4:30:33 | 48.88 | 45.68 | 118 | 6.57 | 0.44 | 6.4 |
| 4/18/2015 4:30:41 | 49.21 | 46.01 | 61 | 4.48 | 0.40 | 3.3 |
| 4/18/2015 4:30:44 | 49.54 | 46.34 | 95 | 5.78 | 0.41 | 5.2 |
| 4/18/2015 4:30:48 | 49.87 | 46.67 | 66 | 4.59 | 0.43 | 3.6 |
| 4/18/2015 4:30:50 | 50.20 | 47.00 | 125 | 4.09 | 0.42 | 6.8 |
| 4/18/2015 4:30:52 | 50.53 | 47.33 | 217 | 2.12 | 0.38 | 11.9 |
| 4/18/2015 4:30:52 | 50.85 | 47.65 | 280 | 2.83 | 0.38 | 15.3 |
| 4/18/2015 4:30:53 | 51.18 | 47.98 | 345 | 3.01 | 0.38 | 18.9 |
| 4/18/2015 4:30:54 | 51.51 | 48.31 | 502 | 2.34 | 0.37 | 27.5 |
| 4/18/2015 4:30:54 | 51.84 | 48.64 | 552 | 2.98 | 0.40 | 30.2 |
| 4/18/2015 4:30:58 | 52.17 | 48.97 | 52 | 6.49 | 0.44 | 2.8 |
| 4/18/2015 4:31:01 | 52.49 | 49.29 | 98 | 4.32 | 0.38 | 5.4 |
| 4/18/2015 4:31:02 | 52.82 | 49.62 | 117 | 3.24 | 0.40 | 6.4 |
| 4/18/2015 4:31:03 | 53.15 | 49.95 | 241 | 2.93 | 0.38 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 4:31:04 | 53.48 | 50.28 | 351 | 3.40 | 0.40 | 19.2 |
| 4/18/2015 | 4:31:06 | 53.81 | 50.61 | 300 | 3.20 | 0.40 | 16.4 |
| 4/18/2015 | 4:31:09 | 54.13 | 50.93 | 104 | 3.77 | 0.40 | 5.7 |
| 4/18/2015 | 4:31:12 | 54.46 | 51.26 | 135 | 3.46 | 0.40 | 7.4 |
| 4/18/2015 | 4:31:13 | 54.79 | 51.59 | 176 | 2.65 | 0.39 | 9.6 |
| 4/18/2015 | 4:31:14 | 55.12 | 51.92 | 269 | 2.91 | 0.40 | 14.7 |
| 4/18/2015 | 4:31:15 | 55.45 | 52.25 | 324 | 3.17 | 0.40 | 17.7 |
| 4/18/2015 | 4:31:16 | 55.77 | 52.57 | 374 | 3.38 | 0.40 | 20.4 |
| 4/18/2015 | 4:31:19 | 56.10 | 52.90 | 160 | 4.53 | 0.40 | 8.8 |
| 4/18/2015 | 4:31:24 | 56.43 | 53.23 | 53 | 2.73 | 0.39 | 2.9 |
| 4/18/2015 | 4:31:25 | 56.76 | 53.56 | 121 | 2.72 | 0.39 | 6.6 |
| 4/18/2015 | 4:31:27 | 57.09 | 53.89 | 192 | 3.91 | 0.41 | 10.5 |
| 4/18/2015 | 4:31:31 | 57.41 | 54.21 | 77 | 3.08 | 0.40 | 4.2 |
| 4/18/2015 | 4:31:32 | 57.74 | 54.54 | 205 | 2.41 | 0.39 | 11.2 |
| 4/18/2015 | 4:31:35 | 58.07 | 54.87 | 86 | 4.36 | 0.42 | 4.7 |
| 4/18/2015 | 4:31:50 | 58.26 | 55.06 | 0 | 4.68 | 0.42 | 0.0 |

## C13 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 4:19:33

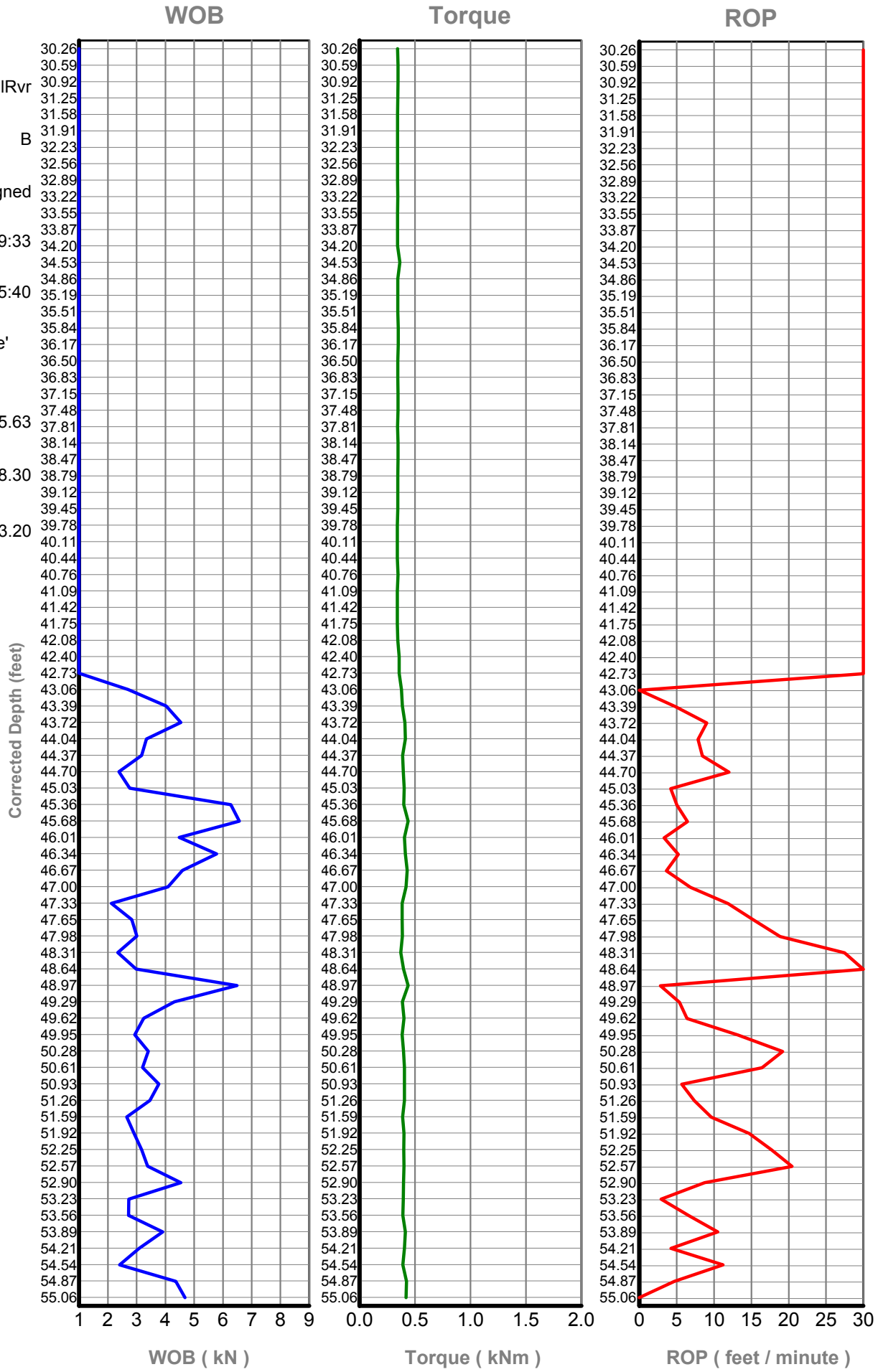
**End Date:**
4/18/2015 4:35:40

**Operator Note:**
'3.2 3.2 b Auto Complete'

**Northing:**
370,995.63

**Easting:**
257,728.30

**Tide (feet):**
3.20



## Hole: C14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 4:42:05 | 33.14 | 30.24 | 1,012 | 0.30 | 0.34 | 55.3 |
| 4/18/2015 4:42:05 | 33.46 | 30.56 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/18/2015 4:42:06 | 33.79 | 30.89 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/18/2015 4:42:06 | 34.12 | 31.22 | 1,004 | 0.30 | 0.34 | 54.9 |
| 4/18/2015 4:42:06 | 34.45 | 31.55 | 995 | 0.30 | 0.34 | 54.4 |
| 4/18/2015 4:42:07 | 34.78 | 31.88 | 974 | 0.31 | 0.34 | 53.2 |
| 4/18/2015 4:42:07 | 35.11 | 32.21 | 974 | 0.31 | 0.34 | 53.2 |
| 4/18/2015 4:42:07 | 35.43 | 32.53 | 983 | 0.30 | 0.33 | 53.7 |
| 4/18/2015 4:42:08 | 35.76 | 32.86 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/18/2015 4:42:08 | 36.09 | 33.19 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/18/2015 4:42:08 | 36.42 | 33.52 | 982 | 0.30 | 0.34 | 53.7 |
| 4/18/2015 4:42:09 | 36.75 | 33.85 | 982 | 0.29 | 0.34 | 53.7 |
| 4/18/2015 4:42:09 | 37.07 | 34.17 | 982 | 0.29 | 0.34 | 53.7 |
| 4/18/2015 4:42:09 | 37.40 | 34.50 | 986 | 0.32 | 0.34 | 53.9 |
| 4/18/2015 4:42:10 | 37.73 | 34.83 | 1,005 | 0.30 | 0.34 | 55.0 |
| 4/18/2015 4:42:10 | 38.06 | 35.16 | 1,005 | 0.30 | 0.34 | 55.0 |
| 4/18/2015 4:42:10 | 38.39 | 35.49 | 990 | 0.30 | 0.34 | 54.1 |
| 4/18/2015 4:42:11 | 38.71 | 35.81 | 977 | 0.30 | 0.33 | 53.5 |
| 4/18/2015 4:42:11 | 39.04 | 36.14 | 991 | 0.31 | 0.33 | 54.2 |
| 4/18/2015 4:42:12 | 39.37 | 36.47 | 991 | 0.31 | 0.33 | 54.2 |
| 4/18/2015 4:42:12 | 39.70 | 36.80 | 998 | 0.31 | 0.34 | 54.6 |
| 4/18/2015 4:42:12 | 40.03 | 37.13 | 995 | 0.30 | 0.34 | 54.4 |
| 4/18/2015 4:42:13 | 40.35 | 37.45 | 995 | 0.30 | 0.34 | 54.4 |
| 4/18/2015 4:42:13 | 40.68 | 37.78 | 999 | 0.30 | 0.33 | 54.6 |
| 4/18/2015 4:42:13 | 41.01 | 38.11 | 987 | 0.30 | 0.34 | 54.0 |
| 4/18/2015 4:42:14 | 41.34 | 38.44 | 987 | 0.30 | 0.34 | 54.0 |
| 4/18/2015 4:42:14 | 41.67 | 38.77 | 1,002 | 0.30 | 0.34 | 54.8 |
| 4/18/2015 4:42:15 | 41.99 | 39.09 | 967 | 0.30 | 0.34 | 52.9 |
| 4/18/2015 4:42:15 | 42.32 | 39.42 | 967 | 0.30 | 0.34 | 52.9 |
| 4/18/2015 4:42:15 | 42.65 | 39.75 | 967 | 0.30 | 0.34 | 52.9 |
| 4/18/2015 4:42:16 | 42.98 | 40.08 | 976 | 0.31 | 0.33 | 53.4 |
| 4/18/2015 4:42:16 | 43.31 | 40.41 | 984 | 0.31 | 0.34 | 53.8 |
| 4/18/2015 4:42:17 | 43.64 | 40.74 | 984 | 0.31 | 0.34 | 53.8 |
| 4/18/2015 4:42:17 | 43.96 | 41.06 | 996 | 0.31 | 0.33 | 54.5 |
| 4/18/2015 4:42:17 | 44.29 | 41.39 | 971 | 0.31 | 0.34 | 53.1 |
| 4/18/2015 4:42:18 | 44.62 | 41.72 | 971 | 0.31 | 0.34 | 53.1 |
| 4/18/2015 4:42:18 | 44.95 | 42.05 | 987 | 0.31 | 0.34 | 54.0 |
| 4/18/2015 4:42:18 | 45.28 | 42.38 | 987 | 0.31 | 0.34 | 54.0 |
| 4/18/2015 4:42:19 | 45.60 | 42.70 | 987 | 0.31 | 0.34 | 54.0 |
| 4/18/2015 4:42:19 | 45.93 | 43.03 | 984 | 0.30 | 0.34 | 53.8 |
| 4/18/2015 4:42:19 | 46.26 | 43.36 | 984 | 0.30 | 0.34 | 53.8 |
| 4/18/2015 4:42:20 | 46.59 | 43.69 | 984 | 0.30 | 0.34 | 53.8 |
| 4/18/2015 4:42:20 | 46.92 | 44.02 | 977 | 0.29 | 0.35 | 53.4 |
| 4/18/2015 4:43:25 | 47.24 | 44.34 | 31 | 2.82 | 0.39 | 1.7 |
| 4/18/2015 4:43:29 | 47.57 | 44.67 | 101 | 3.79 | 0.41 | 5.5 |
| 4/18/2015 4:43:32 | 47.90 | 45.00 | 145 | 3.45 | 0.42 | 8.0 |
| 4/18/2015 4:43:36 | 48.23 | 45.33 | 78 | 3.78 | 0.41 | 4.3 |
| 4/18/2015 4:43:43 | 48.56 | 45.66 | 43 | 5.69 | 0.42 | 2.4 |
| 4/18/2015 4:43:47 | 48.88 | 45.98 | 72 | 4.95 | 0.42 | 3.9 |
| 4/18/2015 4:43:49 | 49.21 | 46.31 | 120 | 5.65 | 0.40 | 6.6 |
| 4/18/2015 4:43:50 | 49.54 | 46.64 | 201 | 3.86 | 0.38 | 11.0 |
| 4/18/2015 4:43:51 | 49.87 | 46.97 | 221 | 3.22 | 0.39 | 12.1 |
| 4/18/2015 4:43:52 | 50.20 | 47.30 | 242 | 2.29 | 0.36 | 13.3 |
| 4/18/2015 4:43:52 | 50.53 | 47.63 | 341 | 2.38 | 0.37 | 18.7 |
| 4/18/2015 4:43:53 | 50.85 | 47.95 | 467 | 3.02 | 0.42 | 25.5 |
| 4/18/2015 4:43:55 | 51.18 | 48.28 | 354 | 3.21 | 0.39 | 19.4 |
| 4/18/2015 4:43:56 | 51.51 | 48.61 | 237 | 3.35 | 0.40 | 13.0 |
| 4/18/2015 4:44:06 | 51.84 | 48.94 | 35 | 5.27 | 0.40 | 1.9 |
| 4/18/2015 4:44:08 | 52.17 | 49.27 | 187 | 3.43 | 0.38 | 10.2 |
| 4/18/2015 4:44:09 | 52.49 | 49.59 | 294 | 3.91 | 0.40 | 16.1 |
| 4/18/2015 4:44:10 | 52.82 | 49.92 | 308 | 3.92 | 0.40 | 16.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 4:44:11 | 53.15 | 50.25 | 359 | 3.46 | 0.38 | 19.6 |
| 4/18/2015 | 4:44:11 | 53.48 | 50.58 | 374 | 2.63 | 0.36 | 20.5 |
| 4/18/2015 | 4:44:12 | 53.81 | 50.91 | 407 | 2.87 | 0.39 | 22.3 |
| 4/18/2015 | 4:44:14 | 54.13 | 51.23 | 392 | 3.07 | 0.40 | 21.4 |
| 4/18/2015 | 4:44:15 | 54.46 | 51.56 | 236 | 3.16 | 0.40 | 12.9 |
| 4/18/2015 | 4:44:17 | 54.79 | 51.89 | 181 | 3.65 | 0.41 | 9.9 |
| 4/18/2015 | 4:44:20 | 55.12 | 52.22 | 148 | 3.83 | 0.40 | 8.1 |
| 4/18/2015 | 4:44:22 | 55.45 | 52.55 | 159 | 4.19 | 0.40 | 8.7 |
| 4/18/2015 | 4:44:27 | 55.77 | 52.87 | 92 | 4.36 | 0.41 | 5.0 |
| 4/18/2015 | 4:44:31 | 56.10 | 53.20 | 75 | 4.29 | 0.42 | 4.1 |
| 4/18/2015 | 4:44:33 | 56.43 | 53.53 | 170 | 3.90 | 0.40 | 9.3 |
| 4/18/2015 | 4:44:40 | 56.76 | 53.86 | 42 | 4.26 | 0.41 | 2.3 |
| 4/18/2015 | 4:44:41 | 57.09 | 54.19 | 130 | 2.60 | 0.38 | 7.1 |
| 4/18/2015 | 4:44:42 | 57.41 | 54.51 | 213 | 2.61 | 0.38 | 11.6 |
| 4/18/2015 | 4:44:43 | 57.74 | 54.84 | 391 | 2.46 | 0.38 | 21.4 |
| 4/18/2015 | 4:44:44 | 58.07 | 55.17 | 450 | 3.79 | 0.40 | 24.6 |
| 4/18/2015 | 4:44:45 | 58.18 | 55.28 | 208 | 3.81 | 0.41 | 11.4 |

## C14 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 4:39:45

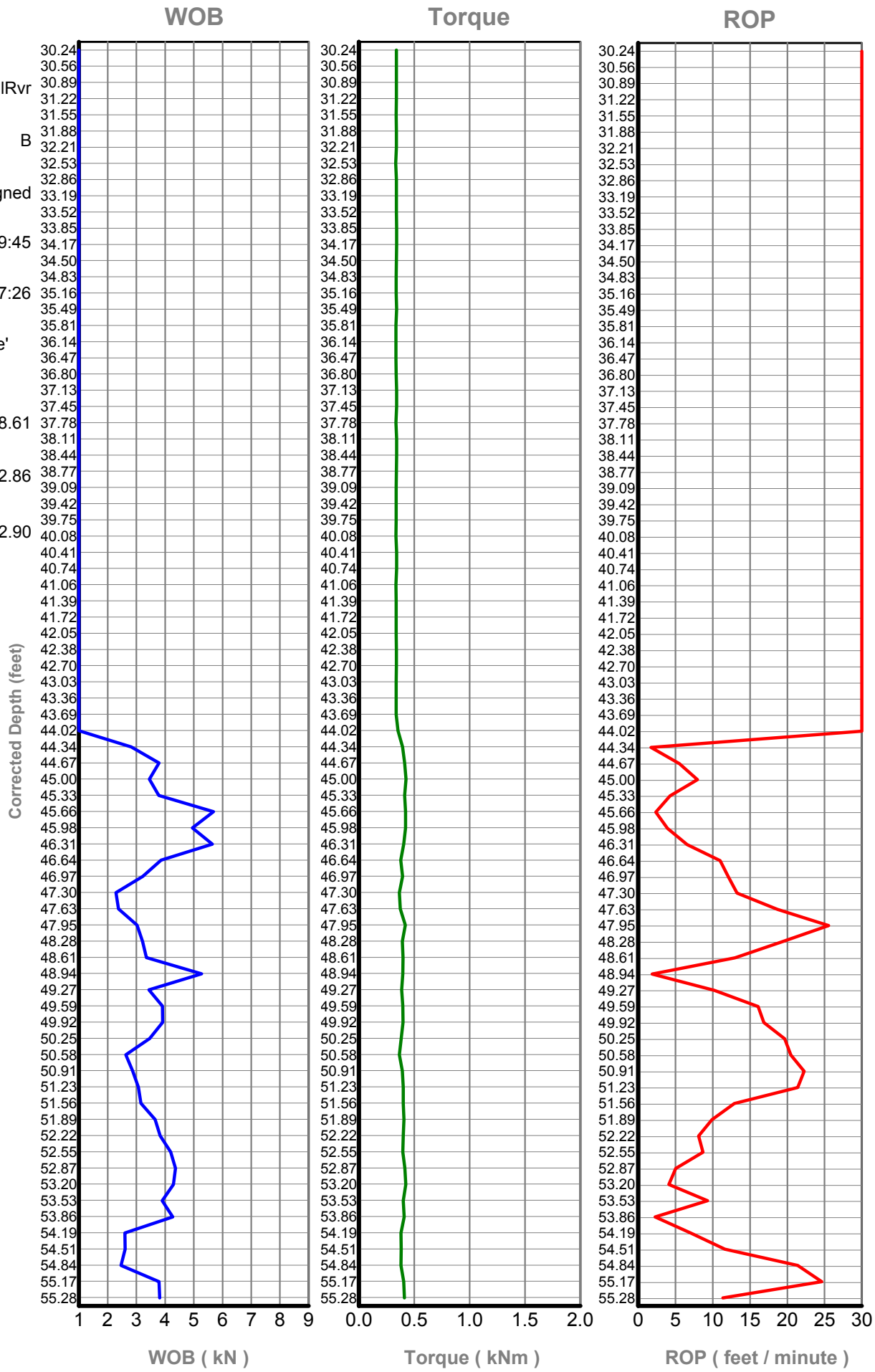
**End Date:**
4/18/2015 4:47:26

**Operator Note:**
'2.9 3.2 b Auto Complete'

**Northing:**
371,018.61

**Easting:**
257,782.86

**Tide (feet):**
2.90



## Hole: C15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 4:20:38 | 33.46 | 30.26 | 553 | 2.12 | 0.13 | 30.2 |
| 4/18/2015 4:20:39 | 33.79 | 30.59 | 550 | 2.14 | 0.13 | 30.1 |
| 4/18/2015 4:20:39 | 34.12 | 30.92 | 557 | 2.13 | 0.14 | 30.4 |
| 4/18/2015 4:20:40 | 34.45 | 31.25 | 565 | 2.13 | 0.14 | 30.9 |
| 4/18/2015 4:20:40 | 34.78 | 31.58 | 553 | 2.06 | 0.14 | 30.2 |
| 4/18/2015 4:20:41 | 35.11 | 31.91 | 553 | 2.13 | 0.14 | 30.2 |
| 4/18/2015 4:20:42 | 35.43 | 32.23 | 559 | 2.13 | 0.14 | 30.6 |
| 4/18/2015 4:20:43 | 35.76 | 32.56 | 566 | 2.14 | 0.14 | 30.9 |
| 4/18/2015 4:20:43 | 36.09 | 32.89 | 545 | 2.13 | 0.14 | 29.8 |
| 4/18/2015 4:20:44 | 36.42 | 33.22 | 545 | 2.12 | 0.14 | 29.8 |
| 4/18/2015 4:20:45 | 36.75 | 33.55 | 544 | 2.13 | 0.13 | 29.7 |
| 4/18/2015 4:20:45 | 37.07 | 33.87 | 553 | 2.12 | 0.13 | 30.3 |
| 4/18/2015 4:20:46 | 37.40 | 34.20 | 553 | 2.14 | 0.14 | 30.3 |
| 4/18/2015 4:20:46 | 37.73 | 34.53 | 565 | 2.12 | 0.14 | 30.9 |
| 4/18/2015 4:20:47 | 38.06 | 34.86 | 558 | 2.14 | 0.14 | 30.5 |
| 4/18/2015 4:20:48 | 38.39 | 35.19 | 558 | 2.12 | 0.13 | 30.5 |
| 4/18/2015 4:20:48 | 38.71 | 35.51 | 563 | 2.12 | 0.13 | 30.8 |
| 4/18/2015 4:20:49 | 39.04 | 35.84 | 553 | 2.13 | 0.13 | 30.2 |
| 4/18/2015 4:20:49 | 39.37 | 36.17 | 550 | 2.14 | 0.13 | 30.1 |
| 4/18/2015 4:20:50 | 39.70 | 36.50 | 560 | 2.14 | 0.13 | 30.6 |
| 4/18/2015 4:20:51 | 40.03 | 36.83 | 557 | 2.14 | 0.13 | 30.4 |
| 4/18/2015 4:20:51 | 40.35 | 37.15 | 557 | 2.14 | 0.13 | 30.4 |
| 4/18/2015 4:21:20 | 40.68 | 37.48 | 59 | 2.16 | 1.15 | 3.2 |
| 4/18/2015 4:21:24 | 41.01 | 37.81 | 63 | 2.19 | 1.04 | 3.4 |
| 4/18/2015 4:21:28 | 41.34 | 38.14 | 11 | 2.12 | 1.04 | 0.6 |
| 4/18/2015 4:21:35 | 41.67 | 38.47 | 46 | 2.32 | 1.50 | 2.5 |
| 4/18/2015 4:21:40 | 41.99 | 38.79 | 31 | 2.14 | 0.84 | 1.7 |
| 4/18/2015 4:21:40 | 42.32 | 39.12 | 140 | 2.13 | 0.84 | 7.7 |
| 4/18/2015 4:21:41 | 42.65 | 39.45 | 246 | 2.14 | 0.83 | 13.5 |
| 4/18/2015 4:21:41 | 42.98 | 39.78 | 354 | 2.12 | 0.83 | 19.4 |
| 4/18/2015 4:21:42 | 43.31 | 40.11 | 541 | 2.13 | 0.83 | 29.6 |
| 4/18/2015 4:21:43 | 43.64 | 40.44 | 537 | 2.14 | 0.82 | 29.4 |
| 4/18/2015 4:21:43 | 43.96 | 40.76 | 540 | 2.14 | 0.83 | 29.5 |
| 4/18/2015 4:21:44 | 44.29 | 41.09 | 541 | 2.13 | 0.83 | 29.6 |
| 4/18/2015 4:21:45 | 44.62 | 41.42 | 538 | 2.14 | 0.82 | 29.4 |
| 4/18/2015 4:21:46 | 44.95 | 41.75 | 544 | 2.13 | 0.83 | 29.7 |
| 4/18/2015 4:21:46 | 45.28 | 42.08 | 541 | 2.14 | 0.83 | 29.6 |
| 4/18/2015 4:21:47 | 45.60 | 42.40 | 544 | 2.13 | 0.82 | 29.7 |
| 4/18/2015 4:21:48 | 45.93 | 42.73 | 547 | 2.12 | 0.82 | 29.9 |
| 4/18/2015 4:21:48 | 46.26 | 43.06 | 541 | 2.12 | 0.83 | 29.6 |
| 4/18/2015 4:21:49 | 46.59 | 43.39 | 547 | 2.13 | 0.82 | 29.9 |
| 4/18/2015 4:21:50 | 46.92 | 43.72 | 544 | 2.13 | 0.85 | 29.7 |
| 4/18/2015 4:21:50 | 47.24 | 44.04 | 544 | 2.15 | 0.86 | 29.7 |
| 4/18/2015 4:21:51 | 47.57 | 44.37 | 538 | 2.19 | 1.17 | 29.4 |
| 4/18/2015 4:22:30 | 47.90 | 44.70 | 3 | 2.19 | 1.14 | 0.2 |
| 4/18/2015 4:23:45 | 48.23 | 45.03 | 20 | 2.29 | 1.26 | 1.1 |
| 4/18/2015 4:23:47 | 48.56 | 45.36 | 107 | 2.26 | 1.15 | 5.9 |
| 4/18/2015 4:23:48 | 48.88 | 45.68 | 157 | 2.29 | 1.13 | 8.6 |
| 4/18/2015 4:23:49 | 49.21 | 46.01 | 224 | 2.22 | 1.06 | 12.2 |
| 4/18/2015 4:23:50 | 49.54 | 46.34 | 287 | 2.20 | 1.24 | 15.7 |
| 4/18/2015 4:23:54 | 49.87 | 46.67 | 3 | 2.17 | 0.97 | 0.2 |
| 4/18/2015 4:23:54 | 50.20 | 47.00 | 100 | 2.16 | 0.94 | 5.5 |
| 4/18/2015 4:23:56 | 50.53 | 47.33 | 220 | 2.14 | 0.99 | 12.0 |
| 4/18/2015 4:24:04 | 50.85 | 47.65 | 89 | 2.19 | 1.23 | 4.9 |
| 4/18/2015 4:24:04 | 51.18 | 47.98 | 171 | 2.26 | 1.47 | 9.4 |
| 4/18/2015 4:24:05 | 51.51 | 48.31 | 300 | 2.25 | 1.11 | 16.4 |
| 4/18/2015 4:24:07 | 51.84 | 48.64 | 339 | 2.32 | 1.25 | 18.5 |
| 4/18/2015 4:24:09 | 52.17 | 48.97 | 166 | 2.25 | 1.09 | 9.1 |
| 4/18/2015 4:24:09 | 52.49 | 49.29 | 206 | 2.18 | 0.92 | 11.3 |
| 4/18/2015 4:24:11 | 52.82 | 49.62 | 392 | 2.17 | 0.90 | 21.4 |
| 4/18/2015 4:24:22 | 53.15 | 49.95 | 0 | 2.19 | 1.14 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 4:24:23 | 53.48 | 50.28 | 137 | 2.21 | 1.19 | 7.5 |
| 4/18/2015 | 4:24:25 | 53.81 | 50.61 | 319 | 2.20 | 1.22 | 17.5 |
| 4/18/2015 | 4:24:28 | 54.13 | 50.93 | 40 | 2.20 | 1.19 | 2.2 |
| 4/18/2015 | 4:24:30 | 54.46 | 51.26 | 181 | 2.25 | 1.27 | 9.9 |
| 4/18/2015 | 4:24:39 | 54.79 | 51.59 | 106 | 2.20 | 1.12 | 5.8 |
| 4/18/2015 | 4:24:40 | 55.12 | 51.92 | 189 | 2.19 | 1.12 | 10.3 |
| 4/18/2015 | 4:24:41 | 55.45 | 52.25 | 340 | 2.23 | 1.24 | 18.6 |
| 4/18/2015 | 4:24:47 | 55.77 | 52.57 | 71 | 2.23 | 1.10 | 3.9 |
| 4/18/2015 | 4:24:48 | 56.10 | 52.90 | 231 | 2.19 | 1.02 | 12.6 |
| 4/18/2015 | 4:24:48 | 56.43 | 53.23 | 325 | 2.18 | 1.03 | 17.8 |
| 4/18/2015 | 4:24:52 | 56.76 | 53.56 | 66 | 2.16 | 1.15 | 3.6 |
| 4/18/2015 | 4:24:54 | 57.09 | 53.89 | 252 | 2.23 | 1.27 | 13.8 |
| 4/18/2015 | 4:25:05 | 57.41 | 54.21 | 0 | 2.21 | 1.26 | 0.0 |
| 4/18/2015 | 4:25:07 | 57.74 | 54.54 | 85 | 2.22 | 1.11 | 4.6 |
| 4/18/2015 | 4:25:08 | 58.07 | 54.87 | 248 | 2.17 | 1.09 | 13.6 |
| 4/18/2015 | 4:27:34 | 58.40 | 55.20 | 11 | 2.26 | 1.30 | 0.6 |
| 4/18/2015 | 4:28:00 | 58.55 | 55.35 | 0 | 1.13 | 1.23 | 0.0 |

## C15 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 4:18:59

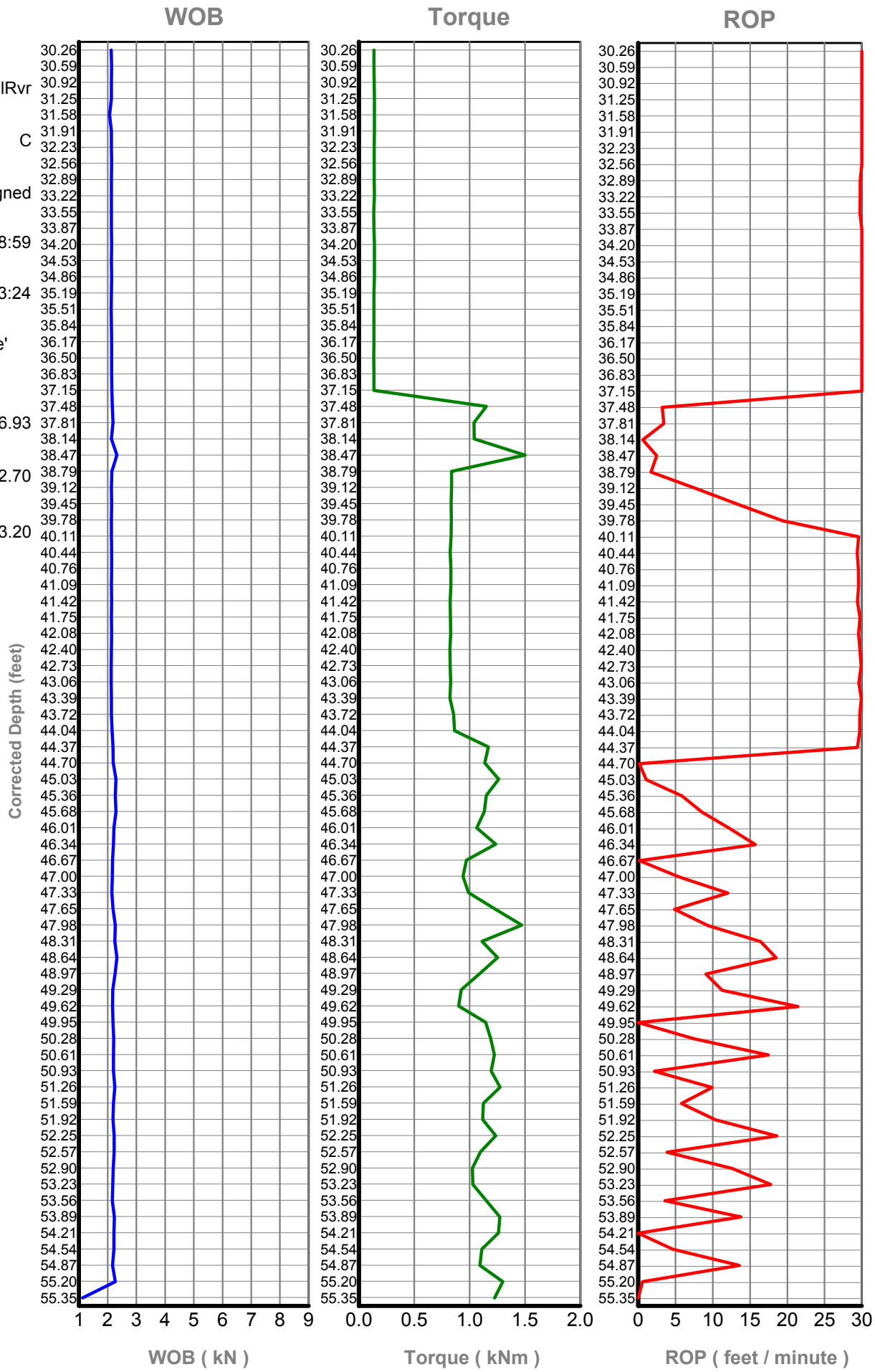
**End Date:**
4/18/2015 4:33:24

**Operator Note:**
'3.2 3.2 c Auto Complete'

**Northing:**
371,046.93

**Easting:**
257,852.70

**Tide (feet):**
3.20



## Hole: C16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:25:28 | 33.14 | 30.04 | 1,153 | 0.47 | 0.33 | 63.1 |
| 4/17/2015 21:25:27 | 33.46 | 30.36 | 1,157 | 0.47 | 0.33 | 63.3 |
| 4/17/2015 21:25:28 | 33.79 | 30.69 | 1,147 | 0.47 | 0.32 | 62.7 |
| 4/17/2015 21:25:29 | 34.12 | 31.02 | 1,147 | 0.47 | 0.32 | 62.7 |
| 4/17/2015 21:25:29 | 34.45 | 31.35 | 1,156 | 0.46 | 0.33 | 63.2 |
| 4/17/2015 21:25:29 | 34.78 | 31.68 | 1,156 | 0.46 | 0.33 | 63.2 |
| 4/17/2015 21:25:29 | 35.11 | 32.01 | 1,145 | 0.47 | 0.34 | 62.6 |
| 4/17/2015 21:25:30 | 35.43 | 32.33 | 1,142 | 0.48 | 0.32 | 62.4 |
| 4/17/2015 21:25:30 | 35.76 | 32.66 | 1,142 | 0.48 | 0.32 | 62.4 |
| 4/17/2015 21:25:30 | 36.09 | 32.99 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:25:31 | 36.42 | 33.32 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:25:31 | 36.75 | 33.65 | 1,135 | 0.47 | 0.32 | 62.1 |
| 4/17/2015 21:25:31 | 37.07 | 33.97 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:25:32 | 37.40 | 34.30 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:25:32 | 37.73 | 34.63 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:25:32 | 38.06 | 34.96 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:25:32 | 38.39 | 35.29 | 1,139 | 0.47 | 0.32 | 62.3 |
| 4/17/2015 21:25:33 | 38.71 | 35.61 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:25:33 | 39.04 | 35.94 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:25:33 | 39.37 | 36.27 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:25:34 | 39.70 | 36.60 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:25:34 | 40.03 | 36.93 | 1,136 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 21:25:34 | 40.35 | 37.25 | 1,139 | 0.46 | 0.33 | 62.3 |
| 4/17/2015 21:25:35 | 40.68 | 37.58 | 1,139 | 0.46 | 0.33 | 62.3 |
| 4/17/2015 21:25:35 | 41.01 | 37.91 | 1,129 | 0.47 | 0.33 | 61.7 |
| 4/17/2015 21:25:35 | 41.34 | 38.24 | 1,129 | 0.47 | 0.33 | 61.7 |
| 4/17/2015 21:25:35 | 41.67 | 38.57 | 1,136 | 0.41 | 0.32 | 62.1 |
| 4/17/2015 21:25:36 | 41.99 | 38.89 | 1,130 | 0.47 | 0.32 | 61.8 |
| 4/17/2015 21:25:36 | 42.32 | 39.22 | 1,130 | 0.47 | 0.32 | 61.8 |
| 4/17/2015 21:25:36 | 42.65 | 39.55 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:37 | 42.98 | 39.88 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:37 | 43.31 | 40.21 | 1,130 | 0.47 | 0.32 | 61.8 |
| 4/17/2015 21:25:37 | 43.64 | 40.54 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:38 | 43.96 | 40.86 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:38 | 44.29 | 41.19 | 1,130 | 0.47 | 0.34 | 61.8 |
| 4/17/2015 21:25:39 | 44.62 | 41.52 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:39 | 44.95 | 41.85 | 1,133 | 0.47 | 0.32 | 62.0 |
| 4/17/2015 21:25:39 | 45.28 | 42.18 | 1,124 | 0.47 | 0.33 | 61.4 |
| 4/17/2015 21:25:40 | 45.60 | 42.50 | 1,124 | 0.47 | 0.33 | 61.4 |
| 4/17/2015 21:25:40 | 45.93 | 42.83 | 1,108 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 21:25:40 | 46.26 | 43.16 | 1,108 | 0.47 | 0.33 | 60.6 |
| 4/17/2015 21:25:41 | 46.59 | 43.49 | 1,108 | 0.47 | 0.33 | 60.6 |
| 4/17/2015 21:26:10 | 46.92 | 43.82 | 0 | 3.48 | 0.46 | 0.0 |
| 4/17/2015 21:26:12 | 47.24 | 44.14 | 157 | 5.99 | 0.41 | 8.6 |
| 4/17/2015 21:26:13 | 47.57 | 44.47 | 173 | 4.93 | 0.46 | 9.5 |
| 4/17/2015 21:26:16 | 47.90 | 44.80 | 177 | 4.05 | 0.44 | 9.7 |
| 4/17/2015 21:26:22 | 48.23 | 45.13 | 28 | 4.19 | 0.38 | 1.5 |
| 4/17/2015 21:26:23 | 48.56 | 45.46 | 117 | 4.59 | 0.38 | 6.4 |
| 4/17/2015 21:26:23 | 48.88 | 45.78 | 214 | 3.75 | 0.41 | 11.7 |
| 4/17/2015 21:26:24 | 49.21 | 46.11 | 354 | 3.30 | 0.31 | 19.3 |
| 4/17/2015 21:26:25 | 49.54 | 46.44 | 503 | 3.92 | 0.39 | 27.5 |
| 4/17/2015 21:26:26 | 49.87 | 46.77 | 342 | 4.70 | 0.42 | 18.7 |
| 4/17/2015 21:26:27 | 50.20 | 47.10 | 342 | 4.26 | 0.37 | 18.7 |
| 4/17/2015 21:26:27 | 50.53 | 47.43 | 351 | 3.17 | 0.37 | 19.2 |
| 4/17/2015 21:26:28 | 50.85 | 47.75 | 475 | 2.94 | 0.34 | 26.0 |
| 4/17/2015 21:26:29 | 51.18 | 48.08 | 475 | 2.94 | 0.34 | 26.0 |
| 4/17/2015 21:26:28 | 51.51 | 48.41 | 593 | 3.33 | 0.38 | 32.4 |
| 4/17/2015 21:26:29 | 51.84 | 48.74 | 593 | 5.47 | 0.44 | 32.4 |
| 4/17/2015 21:26:30 | 52.17 | 49.07 | 693 | 3.47 | 0.42 | 37.9 |
| 4/17/2015 21:26:30 | 52.49 | 49.39 | 784 | 3.67 | 0.43 | 42.9 |
| 4/17/2015 21:26:31 | 52.82 | 49.72 | 784 | 3.97 | 0.42 | 42.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:26:32 | 53.15 | 50.05 | 678 | 3.26 | 0.41 | 37.1 |
| 4/17/2015 | 21:26:32 | 53.48 | 50.38 | 632 | 3.54 | 0.42 | 34.6 |
| 4/17/2015 | 21:26:34 | 53.81 | 50.71 | 320 | 4.83 | 0.44 | 17.5 |
| 4/17/2015 | 21:26:35 | 54.13 | 51.03 | 229 | 3.09 | 0.32 | 12.5 |
| 4/17/2015 | 21:26:36 | 54.46 | 51.36 | 229 | 3.09 | 0.32 | 12.5 |
| 4/17/2015 | 21:26:36 | 54.79 | 51.69 | 344 | 3.41 | 0.42 | 18.8 |
| 4/17/2015 | 21:26:37 | 55.12 | 52.02 | 533 | 4.34 | 0.43 | 29.2 |
| 4/17/2015 | 21:26:39 | 55.45 | 52.35 | 228 | 4.39 | 0.44 | 12.4 |
| 4/17/2015 | 21:26:42 | 55.77 | 52.67 | 110 | 3.24 | 0.37 | 6.0 |
| 4/17/2015 | 21:26:43 | 56.10 | 53.00 | 178 | 3.27 | 0.37 | 9.8 |
| 4/17/2015 | 21:26:43 | 56.43 | 53.33 | 178 | 3.15 | 0.37 | 9.8 |
| 4/17/2015 | 21:26:44 | 56.76 | 53.66 | 310 | 3.55 | 0.36 | 17.0 |
| 4/17/2015 | 21:26:44 | 57.09 | 53.99 | 434 | 3.88 | 0.33 | 23.7 |
| 4/17/2015 | 21:26:45 | 57.41 | 54.31 | 553 | 3.33 | 0.41 | 30.2 |
| 4/17/2015 | 21:26:45 | 57.74 | 54.64 | 553 | 3.33 | 0.41 | 30.2 |
| 4/17/2015 | 21:26:46 | 58.07 | 54.97 | 670 | 3.92 | 0.43 | 36.7 |
| 4/17/2015 | 21:26:47 | 58.35 | 55.25 | 551 | 3.31 | 0.17 | 30.2 |

## C16 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:22:12

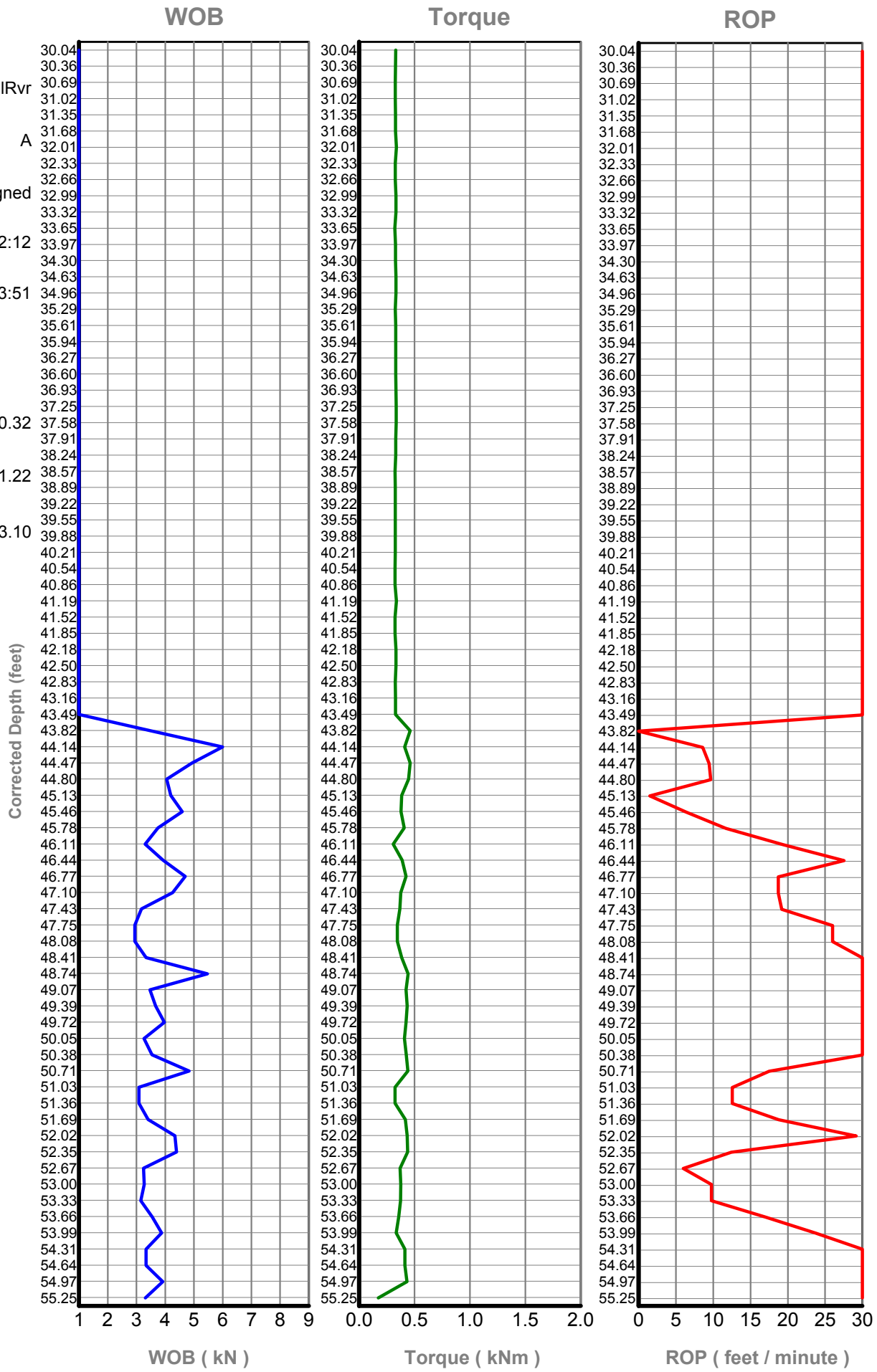
**End Date:**
4/17/2015 21:43:51

**Operator Note:**
'3.1 3 a Auto Complete'

**Northing:**
371,080.32

**Easting:**
257,931.22

**Tide (feet):**
3.10



## Hole: C17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:06:38 | 30.84 | 30.24 | 1,211 | 0.52 | 0.35 | 66.2 |
| 4/17/2015 20:06:38 | 31.17 | 30.57 | 1,205 | 0.52 | 0.35 | 65.9 |
| 4/17/2015 20:06:39 | 31.50 | 30.90 | 1,205 | 0.52 | 0.35 | 65.9 |
| 4/17/2015 20:06:39 | 31.82 | 31.22 | 1,205 | 0.52 | 0.34 | 65.9 |
| 4/17/2015 20:06:39 | 32.15 | 31.55 | 1,205 | 0.52 | 0.34 | 65.9 |
| 4/17/2015 20:06:39 | 32.48 | 31.88 | 1,196 | 0.52 | 0.35 | 65.4 |
| 4/17/2015 20:06:40 | 32.81 | 32.21 | 1,196 | 0.52 | 0.35 | 65.4 |
| 4/17/2015 20:06:40 | 33.14 | 32.54 | 1,200 | 0.52 | 0.35 | 65.6 |
| 4/17/2015 20:06:40 | 33.46 | 32.86 | 1,191 | 0.52 | 0.35 | 65.1 |
| 4/17/2015 20:06:41 | 33.79 | 33.19 | 1,191 | 0.52 | 0.35 | 65.1 |
| 4/17/2015 20:06:41 | 34.12 | 33.52 | 1,191 | 0.52 | 0.35 | 65.1 |
| 4/17/2015 20:06:42 | 34.45 | 33.85 | 1,191 | 0.52 | 0.35 | 65.1 |
| 4/17/2015 20:06:42 | 34.78 | 34.18 | 1,188 | 0.52 | 0.35 | 65.0 |
| 4/17/2015 20:06:42 | 35.11 | 34.51 | 1,188 | 0.52 | 0.35 | 65.0 |
| 4/17/2015 20:06:42 | 35.43 | 34.83 | 1,195 | 0.54 | 0.35 | 65.3 |
| 4/17/2015 20:06:43 | 35.76 | 35.16 | 1,194 | 0.52 | 0.34 | 65.3 |
| 4/17/2015 20:06:43 | 36.09 | 35.49 | 1,194 | 0.52 | 0.34 | 65.3 |
| 4/17/2015 20:06:43 | 36.42 | 35.82 | 1,197 | 0.52 | 0.35 | 65.4 |
| 4/17/2015 20:06:44 | 36.75 | 36.15 | 1,197 | 0.52 | 0.35 | 65.4 |
| 4/17/2015 20:06:44 | 37.07 | 36.47 | 1,200 | 0.52 | 0.34 | 65.6 |
| 4/17/2015 20:06:44 | 37.40 | 36.80 | 1,200 | 0.52 | 0.34 | 65.6 |
| 4/17/2015 20:06:44 | 37.73 | 37.13 | 1,205 | 0.52 | 0.34 | 65.9 |
| 4/17/2015 20:06:45 | 38.06 | 37.46 | 1,208 | 0.52 | 0.35 | 66.1 |
| 4/17/2015 20:06:45 | 38.39 | 37.79 | 1,208 | 0.52 | 0.35 | 66.1 |
| 4/17/2015 20:06:45 | 38.71 | 38.11 | 1,205 | 0.52 | 0.42 | 65.9 |
| 4/17/2015 20:06:46 | 39.04 | 38.44 | 1,205 | 0.52 | 0.42 | 65.9 |
| 4/17/2015 20:06:46 | 39.37 | 38.77 | 1,208 | 0.52 | 0.34 | 66.1 |
| 4/17/2015 20:06:46 | 39.70 | 39.10 | 1,208 | 0.52 | 0.34 | 66.1 |
| 4/17/2015 20:06:46 | 40.03 | 39.43 | 1,211 | 0.52 | 0.34 | 66.2 |
| 4/17/2015 20:06:47 | 40.35 | 39.75 | 1,208 | 0.52 | 0.34 | 66.1 |
| 4/17/2015 20:06:47 | 40.68 | 40.08 | 1,208 | 0.52 | 0.34 | 66.1 |
| 4/17/2015 20:06:47 | 41.01 | 40.41 | 1,211 | 0.52 | 0.34 | 66.2 |
| 4/17/2015 20:06:48 | 41.34 | 40.74 | 1,211 | 0.52 | 0.34 | 66.2 |
| 4/17/2015 20:06:48 | 41.67 | 41.07 | 1,211 | 0.52 | 0.35 | 66.2 |
| 4/17/2015 20:06:48 | 41.99 | 41.39 | 1,211 | 0.52 | 0.35 | 66.2 |
| 4/17/2015 20:06:48 | 42.32 | 41.72 | 1,208 | 0.52 | 0.37 | 66.1 |
| 4/17/2015 20:07:10 | 42.65 | 42.05 | 32 | 4.90 | 0.49 | 1.8 |
| 4/17/2015 20:07:13 | 42.98 | 42.38 | 163 | 4.42 | 0.46 | 8.9 |
| 4/17/2015 20:07:15 | 43.31 | 42.71 | 139 | 5.02 | 0.44 | 7.6 |
| 4/17/2015 20:07:18 | 43.64 | 43.04 | 111 | 4.12 | 0.46 | 6.1 |
| 4/17/2015 20:07:19 | 43.96 | 43.36 | 195 | 4.61 | 0.47 | 10.7 |
| 4/17/2015 20:07:24 | 44.29 | 43.69 | 43 | 4.15 | 0.51 | 2.4 |
| 4/17/2015 20:07:34 | 44.62 | 44.02 | 41 | 4.22 | 0.40 | 2.2 |
| 4/17/2015 20:07:37 | 44.95 | 44.35 | 116 | 4.36 | 0.44 | 6.4 |
| 4/17/2015 20:07:40 | 45.28 | 44.68 | 93 | 4.43 | 0.46 | 5.1 |
| 4/17/2015 20:07:44 | 45.60 | 45.00 | 125 | 4.29 | 0.46 | 6.8 |
| 4/17/2015 20:07:46 | 45.93 | 45.33 | 136 | 4.50 | 0.44 | 7.5 |
| 4/17/2015 20:07:48 | 46.12 | 45.52 | 127 | 5.19 | 0.49 | 7.0 |

## C17 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 19:58:06

**End Date:**
4/17/2015 20:10:28

**Operator Note:**
'0.6 -.8 a-,8 a Auto Complete'

**Northing:**
371,183.67

**Easting:**
258,132.90

**Tide (feet):**
0.60



## Hole: C18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:24:47 | 33.14 | 30.04 | 1,040 | 0.17 | 0.33 | 56.9 |
| 4/17/2015 21:24:47 | 33.46 | 30.36 | 1,040 | 0.16 | 0.34 | 56.9 |
| 4/17/2015 21:24:48 | 33.79 | 30.69 | 1,058 | 0.16 | 0.34 | 57.9 |
| 4/17/2015 21:24:48 | 34.12 | 31.02 | 1,058 | 0.16 | 0.34 | 57.9 |
| 4/17/2015 21:24:48 | 34.45 | 31.35 | 1,073 | 0.17 | 0.34 | 58.7 |
| 4/17/2015 21:24:49 | 34.78 | 31.68 | 1,073 | 0.17 | 0.34 | 58.7 |
| 4/17/2015 21:24:49 | 35.11 | 32.01 | 1,032 | 0.17 | 0.33 | 56.5 |
| 4/17/2015 21:24:49 | 35.43 | 32.33 | 1,032 | 0.16 | 0.34 | 56.5 |
| 4/17/2015 21:24:50 | 35.76 | 32.66 | 1,032 | 0.16 | 0.34 | 56.5 |
| 4/17/2015 21:24:50 | 36.09 | 32.99 | 1,042 | 0.17 | 0.35 | 57.0 |
| 4/17/2015 21:24:51 | 36.42 | 33.32 | 1,051 | 0.17 | 0.34 | 57.5 |
| 4/17/2015 21:24:51 | 36.75 | 33.65 | 1,051 | 0.17 | 0.34 | 57.5 |
| 4/17/2015 21:24:51 | 37.07 | 33.97 | 1,033 | 0.22 | 0.33 | 56.5 |
| 4/17/2015 21:24:52 | 37.40 | 34.30 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 21:24:52 | 37.73 | 34.63 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 21:24:52 | 38.06 | 34.96 | 1,044 | 0.14 | 0.34 | 57.1 |
| 4/17/2015 21:24:53 | 38.39 | 35.29 | 1,020 | 0.17 | 0.34 | 55.8 |
| 4/17/2015 21:24:53 | 38.71 | 35.61 | 1,020 | 0.17 | 0.34 | 55.8 |
| 4/17/2015 21:24:53 | 39.04 | 35.94 | 1,020 | 0.17 | 0.33 | 55.8 |
| 4/17/2015 21:24:54 | 39.37 | 36.27 | 1,038 | 0.16 | 0.34 | 56.7 |
| 4/17/2015 21:24:54 | 39.70 | 36.60 | 1,038 | 0.16 | 0.34 | 56.7 |
| 4/17/2015 21:24:54 | 40.03 | 36.93 | 1,053 | 0.17 | 0.34 | 57.6 |
| 4/17/2015 21:24:55 | 40.35 | 37.25 | 1,019 | 0.17 | 0.33 | 55.7 |
| 4/17/2015 21:24:55 | 40.68 | 37.58 | 1,019 | 0.17 | 0.33 | 55.7 |
| 4/17/2015 21:24:55 | 41.01 | 37.91 | 1,019 | 0.17 | 0.33 | 55.7 |
| 4/17/2015 21:24:56 | 41.34 | 38.24 | 1,051 | 0.17 | 0.33 | 57.5 |
| 4/17/2015 21:24:56 | 41.67 | 38.57 | 1,051 | 0.17 | 0.33 | 57.5 |
| 4/17/2015 21:24:56 | 41.99 | 38.89 | 1,051 | 0.16 | 0.33 | 57.5 |
| 4/17/2015 21:24:57 | 42.32 | 39.22 | 1,050 | 0.17 | 0.34 | 57.4 |
| 4/17/2015 21:24:57 | 42.65 | 39.55 | 1,050 | 0.17 | 0.34 | 57.4 |
| 4/17/2015 21:24:57 | 42.98 | 39.88 | 1,034 | 0.16 | 0.34 | 56.5 |
| 4/17/2015 21:24:58 | 43.31 | 40.21 | 1,034 | 0.16 | 0.34 | 56.5 |
| 4/17/2015 21:24:58 | 43.64 | 40.54 | 1,055 | 0.16 | 0.34 | 57.7 |
| 4/17/2015 21:24:58 | 43.96 | 40.86 | 1,041 | 0.17 | 0.34 | 56.9 |
| 4/17/2015 21:24:59 | 44.29 | 41.19 | 1,041 | 0.17 | 0.34 | 56.9 |
| 4/17/2015 21:24:59 | 44.62 | 41.52 | 1,027 | 0.17 | 0.33 | 56.1 |
| 4/17/2015 21:24:59 | 44.95 | 41.85 | 1,030 | 0.17 | 0.34 | 56.3 |
| 4/17/2015 21:25:00 | 45.28 | 42.18 | 1,030 | 0.17 | 0.34 | 56.3 |
| 4/17/2015 21:25:00 | 45.60 | 42.50 | 1,030 | 0.15 | 0.34 | 56.3 |
| 4/17/2015 21:25:01 | 45.93 | 42.83 | 1,047 | 0.16 | 0.33 | 57.3 |
| 4/17/2015 21:25:01 | 46.26 | 43.16 | 1,047 | 0.16 | 0.33 | 57.3 |
| 4/17/2015 21:25:01 | 46.59 | 43.49 | 1,054 | 0.17 | 0.34 | 57.6 |
| 4/17/2015 21:25:02 | 46.92 | 43.82 | 1,054 | 0.16 | 0.33 | 57.6 |
| 4/17/2015 21:25:02 | 47.24 | 44.14 | 1,054 | 0.16 | 0.33 | 57.6 |
| 4/17/2015 21:25:03 | 47.57 | 44.47 | 937 | 0.14 | 0.42 | 51.3 |
| 4/17/2015 21:25:34 | 47.90 | 44.80 | 102 | 3.15 | 0.39 | 5.6 |
| 4/17/2015 21:25:36 | 48.23 | 45.13 | 153 | 6.57 | 0.43 | 8.4 |
| 4/17/2015 21:25:38 | 48.56 | 45.46 | 142 | 3.37 | 0.40 | 7.7 |
| 4/17/2015 21:25:40 | 48.88 | 45.78 | 200 | 3.58 | 0.40 | 10.9 |
| 4/17/2015 21:25:41 | 49.21 | 46.11 | 208 | 3.36 | 0.38 | 11.4 |
| 4/17/2015 21:25:42 | 49.54 | 46.44 | 285 | 2.82 | 0.38 | 15.6 |
| 4/17/2015 21:25:43 | 49.87 | 46.77 | 377 | 1.85 | 0.36 | 20.6 |
| 4/17/2015 21:25:44 | 50.20 | 47.10 | 499 | 2.27 | 0.36 | 27.3 |
| 4/17/2015 21:25:44 | 50.53 | 47.43 | 586 | 2.00 | 0.36 | 32.1 |
| 4/17/2015 21:25:45 | 50.85 | 47.75 | 635 | 2.15 | 0.37 | 34.7 |
| 4/17/2015 21:25:45 | 51.18 | 48.08 | 652 | 2.31 | 0.38 | 35.7 |
| 4/17/2015 21:25:46 | 51.51 | 48.41 | 690 | 2.51 | 0.39 | 37.7 |
| 4/17/2015 21:25:46 | 51.84 | 48.74 | 625 | 2.14 | 0.38 | 34.2 |
| 4/17/2015 21:25:47 | 52.17 | 49.07 | 586 | 2.06 | 0.37 | 32.1 |
| 4/17/2015 21:25:48 | 52.49 | 49.39 | 540 | 2.12 | 0.38 | 29.5 |
| 4/17/2015 21:25:48 | 52.82 | 49.72 | 540 | 2.38 | 0.39 | 29.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:25:49 | 53.15 | 50.05 | 537 | 2.54 | 0.40 | 29.4 |
| 4/17/2015 | 21:25:50 | 53.48 | 50.38 | 531 | 2.13 | 0.37 | 29.0 |
| 4/17/2015 | 21:25:50 | 53.81 | 50.71 | 530 | 2.21 | 0.38 | 29.0 |
| 4/17/2015 | 21:25:51 | 54.13 | 51.03 | 528 | 2.21 | 0.38 | 28.8 |
| 4/17/2015 | 21:25:51 | 54.46 | 51.36 | 528 | 2.29 | 0.39 | 28.8 |
| 4/17/2015 | 21:25:53 | 54.79 | 51.69 | 540 | 2.26 | 0.38 | 29.5 |
| 4/17/2015 | 21:25:53 | 55.12 | 52.02 | 524 | 2.25 | 0.38 | 28.6 |
| 4/17/2015 | 21:25:54 | 55.45 | 52.35 | 511 | 2.23 | 0.38 | 28.0 |
| 4/17/2015 | 21:25:55 | 55.77 | 52.67 | 520 | 2.37 | 0.39 | 28.4 |
| 4/17/2015 | 21:25:55 | 56.10 | 53.00 | 506 | 2.45 | 0.40 | 27.7 |
| 4/17/2015 | 21:25:56 | 56.43 | 53.33 | 467 | 2.14 | 0.38 | 25.6 |
| 4/17/2015 | 21:25:57 | 56.76 | 53.66 | 467 | 2.11 | 0.38 | 25.6 |
| 4/17/2015 | 21:25:58 | 57.09 | 53.99 | 462 | 2.16 | 0.39 | 25.3 |
| 4/17/2015 | 21:25:58 | 57.41 | 54.31 | 466 | 2.03 | 0.37 | 25.5 |
| 4/17/2015 | 21:25:59 | 57.74 | 54.64 | 524 | 1.93 | 0.37 | 28.7 |
| 4/17/2015 | 21:25:59 | 58.07 | 54.97 | 581 | 2.06 | 0.38 | 31.8 |
| 4/17/2015 | 21:26:00 | 58.40 | 55.30 | 586 | 2.28 | 0.38 | 32.0 |
| 4/17/2015 | 21:26:00 | 58.73 | 55.63 | 586 | 2.04 | 0.38 | 32.0 |
| 4/17/2015 | 21:26:01 | 59.06 | 55.96 | 604 | 2.04 | 0.38 | 33.0 |
| 4/17/2015 | 21:26:02 | 59.38 | 56.28 | 604 | 1.99 | 0.38 | 33.0 |
| 4/17/2015 | 21:26:03 | 59.71 | 56.61 | 598 | 2.23 | 0.39 | 32.7 |
| 4/17/2015 | 21:26:04 | 60.04 | 56.94 | 495 | 3.20 | 0.42 | 27.1 |
| 4/17/2015 | 21:26:05 | 60.37 | 57.27 | 303 | 1.91 | 0.37 | 16.6 |
| 4/17/2015 | 21:26:05 | 60.63 | 57.53 | 303 | 1.91 | 0.37 | 16.6 |

## C18 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:21:45

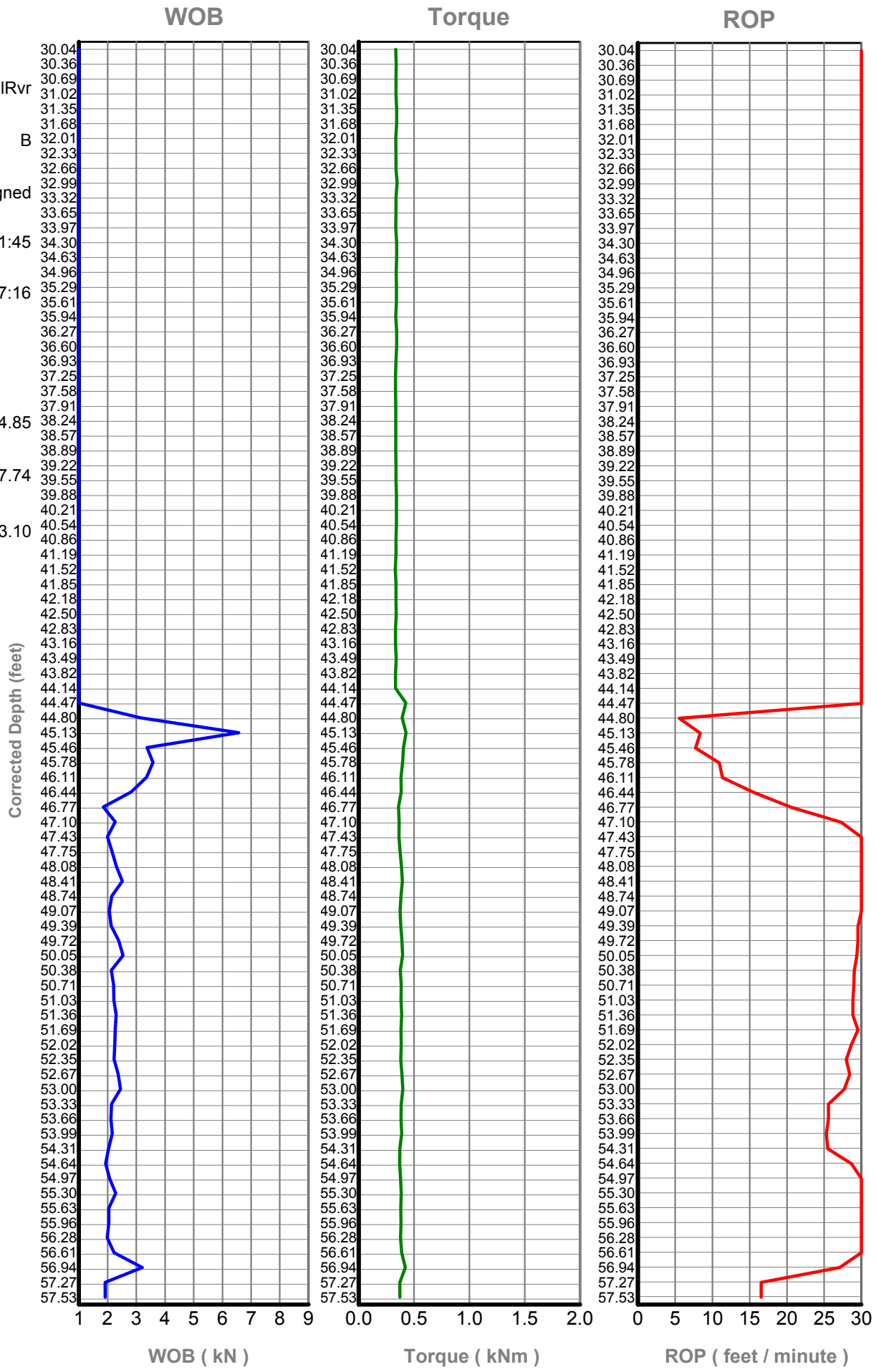
**End Date:**
4/17/2015 21:27:16

**Operator Note:**
'3.1 3 b Auto Complete'

**Northing:**
371,114.85

**Easting:**
257,997.74

**Tide (feet):**
3.10



## Hole: C19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:26:41 | 33.14 | 30.04 | 570 | 2.13 | 0.13 | 31.2 |
| 4/17/2015 21:26:41 | 33.46 | 30.36 | 570 | 2.14 | 0.13 | 31.2 |
| 4/17/2015 21:26:42 | 33.79 | 30.69 | 577 | 2.14 | 0.13 | 31.6 |
| 4/17/2015 21:26:43 | 34.12 | 31.02 | 567 | 2.14 | 0.13 | 31.0 |
| 4/17/2015 21:26:43 | 34.45 | 31.35 | 574 | 2.13 | 0.13 | 31.4 |
| 4/17/2015 21:26:44 | 34.78 | 31.68 | 567 | 2.13 | 0.14 | 31.0 |
| 4/17/2015 21:26:45 | 35.11 | 32.01 | 580 | 2.12 | 0.13 | 31.7 |
| 4/17/2015 21:26:46 | 35.43 | 32.33 | 576 | 2.14 | 0.13 | 31.5 |
| 4/17/2015 21:26:46 | 35.76 | 32.66 | 569 | 2.13 | 0.13 | 31.1 |
| 4/17/2015 21:26:47 | 36.09 | 32.99 | 572 | 2.13 | 0.13 | 31.3 |
| 4/17/2015 21:26:47 | 36.42 | 33.32 | 566 | 2.14 | 0.13 | 31.0 |
| 4/17/2015 21:26:48 | 36.75 | 33.65 | 566 | 2.13 | 0.13 | 31.0 |
| 4/17/2015 21:26:49 | 37.07 | 33.97 | 569 | 2.12 | 0.13 | 31.1 |
| 4/17/2015 21:26:49 | 37.40 | 34.30 | 567 | 2.12 | 0.14 | 31.0 |
| 4/17/2015 21:26:50 | 37.73 | 34.63 | 572 | 2.14 | 0.13 | 31.3 |
| 4/17/2015 21:26:50 | 38.06 | 34.96 | 570 | 2.14 | 0.13 | 31.1 |
| 4/17/2015 21:26:51 | 38.39 | 35.29 | 572 | 2.13 | 0.13 | 31.3 |
| 4/17/2015 21:26:52 | 38.71 | 35.61 | 572 | 2.12 | 0.13 | 31.3 |
| 4/17/2015 21:26:52 | 39.04 | 35.94 | 566 | 2.13 | 0.13 | 30.9 |
| 4/17/2015 21:26:53 | 39.37 | 36.27 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 21:26:53 | 39.70 | 36.60 | 570 | 2.05 | 0.13 | 31.1 |
| 4/17/2015 21:26:54 | 40.03 | 36.93 | 570 | 2.12 | 0.13 | 31.1 |
| 4/17/2015 21:26:55 | 40.35 | 37.25 | 570 | 2.14 | 0.13 | 31.1 |
| 4/17/2015 21:26:56 | 40.68 | 37.58 | 567 | 2.13 | 0.13 | 31.0 |
| 4/17/2015 21:26:56 | 41.01 | 37.91 | 570 | 2.12 | 0.14 | 31.1 |
| 4/17/2015 21:26:57 | 41.34 | 38.24 | 566 | 2.14 | 0.13 | 31.0 |
| 4/17/2015 21:26:57 | 41.67 | 38.57 | 573 | 2.14 | 0.13 | 31.3 |
| 4/17/2015 21:26:58 | 41.99 | 38.89 | 569 | 2.12 | 0.13 | 31.1 |
| 4/17/2015 21:26:59 | 42.32 | 39.22 | 569 | 2.12 | 0.13 | 31.1 |
| 4/17/2015 21:26:59 | 42.65 | 39.55 | 569 | 2.14 | 0.13 | 31.1 |
| 4/17/2015 21:27:00 | 42.98 | 39.88 | 567 | 2.13 | 0.13 | 31.0 |
| 4/17/2015 21:27:01 | 43.31 | 40.21 | 560 | 2.13 | 0.13 | 30.6 |
| 4/17/2015 21:27:01 | 43.64 | 40.54 | 567 | 2.13 | 0.13 | 31.0 |
| 4/17/2015 21:27:02 | 43.96 | 40.86 | 571 | 2.13 | 0.13 | 31.2 |
| 4/17/2015 21:27:02 | 44.29 | 41.19 | 561 | 2.14 | 0.13 | 30.7 |
| 4/17/2015 21:27:03 | 44.62 | 41.52 | 568 | 2.12 | 0.13 | 31.1 |
| 4/17/2015 21:27:04 | 44.95 | 41.85 | 565 | 2.12 | 0.13 | 30.9 |
| 4/17/2015 21:27:04 | 45.28 | 42.18 | 564 | 2.14 | 0.13 | 30.8 |
| 4/17/2015 21:27:05 | 45.60 | 42.50 | 560 | 2.15 | 0.13 | 30.6 |
| 4/17/2015 21:27:27 | 45.93 | 42.83 | 29 | 2.27 | 1.36 | 1.6 |
| 4/17/2015 21:27:32 | 46.26 | 43.16 | 63 | 2.25 | 1.26 | 3.5 |
| 4/17/2015 21:27:34 | 46.59 | 43.49 | 152 | 2.18 | 1.22 | 8.3 |
| 4/17/2015 21:27:45 | 46.92 | 43.82 | 46 | 2.28 | 1.41 | 2.5 |
| 4/17/2015 21:27:49 | 47.24 | 44.14 | 104 | 2.33 | 1.43 | 5.7 |
| 4/17/2015 21:28:06 | 47.57 | 44.47 | 22 | 2.33 | 1.50 | 1.2 |
| 4/17/2015 21:32:17 | 47.90 | 44.80 | 0 | 2.29 | 1.51 | 0.0 |

## C19 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:23:25

**End Date:**
4/17/2015 21:34:49

**Operator Note:**
'3.1 3.0 c Auto Complete'

**Northing:**
371,149.37

**Easting:**
258,064.95

**Tide (feet):**
3.10



## Hole: C2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 5:01:29 | 32.81 | 30.31 | 1,097 | 0.16 | 0.33 | 60.0 |
| 4/18/2015 5:01:28 | 33.14 | 30.64 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 5:01:29 | 33.46 | 30.96 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 5:01:29 | 33.79 | 31.29 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 5:01:30 | 34.12 | 31.62 | 1,073 | 0.16 | 0.33 | 58.7 |
| 4/18/2015 5:01:30 | 34.45 | 31.95 | 1,073 | 0.16 | 0.33 | 58.7 |
| 4/18/2015 5:01:30 | 34.78 | 32.28 | 1,062 | 0.16 | 0.33 | 58.1 |
| 4/18/2015 5:01:31 | 35.11 | 32.61 | 1,063 | 0.16 | 0.34 | 58.1 |
| 4/18/2015 5:01:31 | 35.43 | 32.93 | 1,063 | 0.16 | 0.34 | 58.1 |
| 4/18/2015 5:01:31 | 35.76 | 33.26 | 1,043 | 0.16 | 0.33 | 57.0 |
| 4/18/2015 5:01:32 | 36.09 | 33.59 | 1,081 | 0.16 | 0.34 | 59.1 |
| 4/18/2015 5:01:32 | 36.42 | 33.92 | 1,081 | 0.16 | 0.34 | 59.1 |
| 4/18/2015 5:01:32 | 36.75 | 34.25 | 1,066 | 0.16 | 0.34 | 58.3 |
| 4/18/2015 5:01:33 | 37.07 | 34.57 | 1,051 | 0.16 | 0.33 | 57.5 |
| 4/18/2015 5:01:33 | 37.40 | 34.90 | 1,051 | 0.16 | 0.33 | 57.5 |
| 4/18/2015 5:01:33 | 37.73 | 35.23 | 1,051 | 0.16 | 0.34 | 57.5 |
| 4/18/2015 5:01:34 | 38.06 | 35.56 | 1,051 | 0.16 | 0.34 | 57.5 |
| 4/18/2015 5:01:34 | 38.39 | 35.89 | 1,042 | 0.16 | 0.34 | 57.0 |
| 4/18/2015 5:01:34 | 38.71 | 36.21 | 1,042 | 0.16 | 0.33 | 57.0 |
| 4/18/2015 5:01:35 | 39.04 | 36.54 | 1,042 | 0.16 | 0.33 | 57.0 |
| 4/18/2015 5:01:35 | 39.37 | 36.87 | 1,069 | 0.16 | 0.33 | 58.4 |
| 4/18/2015 5:01:35 | 39.70 | 37.20 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 5:01:36 | 40.03 | 37.53 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 5:01:36 | 40.35 | 37.85 | 1,062 | 0.16 | 0.34 | 58.0 |
| 4/18/2015 5:01:36 | 40.68 | 38.18 | 1,086 | 0.16 | 0.33 | 59.4 |
| 4/18/2015 5:01:37 | 41.01 | 38.51 | 1,086 | 0.16 | 0.33 | 59.4 |
| 4/18/2015 5:01:37 | 41.34 | 38.84 | 1,079 | 0.16 | 0.34 | 59.0 |
| 4/18/2015 5:01:37 | 41.67 | 39.17 | 1,061 | 0.16 | 0.34 | 58.0 |
| 4/18/2015 5:01:38 | 41.99 | 39.49 | 1,061 | 0.16 | 0.34 | 58.0 |
| 4/18/2015 5:01:38 | 42.32 | 39.82 | 1,055 | 0.16 | 0.33 | 57.7 |
| 4/18/2015 5:01:38 | 42.65 | 40.15 | 1,043 | 0.16 | 0.34 | 57.1 |
| 4/18/2015 5:01:39 | 42.98 | 40.48 | 1,043 | 0.16 | 0.34 | 57.1 |
| 4/18/2015 5:01:39 | 43.31 | 40.81 | 1,021 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 5:01:39 | 43.64 | 41.14 | 1,034 | 0.16 | 0.33 | 56.5 |
| 4/18/2015 5:01:40 | 43.96 | 41.46 | 1,034 | 0.16 | 0.33 | 56.5 |
| 4/18/2015 5:01:40 | 44.29 | 41.79 | 1,056 | 0.16 | 0.34 | 57.7 |
| 4/18/2015 5:01:41 | 44.62 | 42.12 | 1,056 | 0.16 | 0.34 | 57.7 |
| 4/18/2015 5:01:41 | 44.95 | 42.45 | 1,047 | 0.16 | 0.33 | 57.3 |
| 4/18/2015 5:01:41 | 45.28 | 42.78 | 1,047 | 0.16 | 0.33 | 57.3 |
| 4/18/2015 5:01:42 | 45.60 | 43.10 | 1,047 | 0.16 | 0.33 | 57.3 |
| 4/18/2015 5:01:42 | 45.93 | 43.43 | 1,060 | 0.16 | 0.33 | 58.0 |
| 4/18/2015 5:01:42 | 46.26 | 43.76 | 1,088 | 0.14 | 0.35 | 59.5 |
| 4/18/2015 5:01:43 | 46.59 | 44.09 | 1,088 | 0.14 | 0.35 | 59.5 |
| 4/18/2015 5:02:27 | 46.92 | 44.42 | 0 | 1.85 | 0.35 | 0.0 |
| 4/18/2015 5:02:28 | 47.24 | 44.74 | 102 | 4.36 | 0.41 | 5.6 |
| 4/18/2015 5:02:31 | 47.57 | 45.07 | 157 | 5.72 | 0.43 | 8.6 |
| 4/18/2015 5:02:39 | 47.90 | 45.40 | 20 | 3.41 | 0.42 | 1.1 |
| 4/18/2015 5:02:49 | 48.23 | 45.73 | 49 | 3.93 | 0.41 | 2.7 |
| 4/18/2015 5:02:53 | 48.56 | 46.06 | 36 | 4.72 | 0.38 | 2.0 |
| 4/18/2015 5:02:55 | 48.88 | 46.38 | 111 | 4.28 | 0.39 | 6.1 |
| 4/18/2015 5:02:57 | 49.21 | 46.71 | 153 | 2.65 | 0.38 | 8.4 |
| 4/18/2015 5:02:58 | 49.54 | 47.04 | 229 | 2.16 | 0.38 | 12.5 |
| 4/18/2015 5:02:58 | 49.87 | 47.37 | 290 | 1.96 | 0.37 | 15.8 |
| 4/18/2015 5:02:59 | 50.20 | 47.70 | 376 | 2.16 | 0.38 | 20.6 |
| 4/18/2015 5:03:00 | 50.53 | 48.03 | 472 | 1.89 | 0.37 | 25.8 |
| 4/18/2015 5:03:00 | 50.85 | 48.35 | 540 | 2.06 | 0.38 | 29.6 |
| 4/18/2015 5:03:01 | 51.18 | 48.68 | 535 | 2.22 | 0.38 | 29.2 |
| 4/18/2015 5:03:02 | 51.51 | 49.01 | 531 | 2.06 | 0.37 | 29.0 |
| 4/18/2015 5:03:02 | 51.84 | 49.34 | 533 | 2.12 | 0.37 | 29.1 |
| 4/18/2015 5:03:03 | 52.17 | 49.67 | 530 | 2.18 | 0.38 | 29.0 |
| 4/18/2015 5:03:04 | 52.49 | 49.99 | 540 | 2.08 | 0.38 | 29.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 5:03:05 | 52.82 | 50.32 | 532 | 2.37 | 0.38 | 29.1 |
| 4/18/2015 | 5:03:05 | 53.15 | 50.65 | 537 | 2.01 | 0.36 | 29.4 |
| 4/18/2015 | 5:03:06 | 53.48 | 50.98 | 588 | 1.88 | 0.37 | 32.2 |
| 4/18/2015 | 5:03:06 | 53.81 | 51.31 | 628 | 1.98 | 0.37 | 34.3 |
| 4/18/2015 | 5:03:07 | 54.13 | 51.63 | 663 | 2.36 | 0.37 | 36.2 |
| 4/18/2015 | 5:03:07 | 54.46 | 51.96 | 678 | 1.81 | 0.36 | 37.1 |
| 4/18/2015 | 5:03:08 | 54.79 | 52.29 | 678 | 1.90 | 0.37 | 37.1 |
| 4/18/2015 | 5:03:08 | 55.12 | 52.62 | 710 | 1.98 | 0.37 | 38.8 |
| 4/18/2015 | 5:03:09 | 55.45 | 52.95 | 677 | 2.27 | 0.38 | 37.0 |
| 4/18/2015 | 5:03:09 | 55.77 | 53.27 | 625 | 2.07 | 0.37 | 34.2 |
| 4/18/2015 | 5:03:10 | 56.10 | 53.60 | 589 | 2.04 | 0.37 | 32.2 |
| 4/18/2015 | 5:03:11 | 56.43 | 53.93 | 569 | 1.84 | 0.37 | 31.1 |
| 4/18/2015 | 5:03:11 | 56.76 | 54.26 | 572 | 1.90 | 0.38 | 31.3 |
| 4/18/2015 | 5:03:12 | 57.09 | 54.59 | 598 | 2.07 | 0.39 | 32.7 |
| 4/18/2015 | 5:03:12 | 57.41 | 54.91 | 604 | 2.21 | 0.39 | 33.0 |
| 4/18/2015 | 5:03:14 | 57.74 | 55.24 | 391 | 2.72 | 0.41 | 21.4 |
| 4/18/2015 | 5:03:15 | 58.07 | 55.57 | 318 | 1.79 | 0.36 | 17.4 |

## C2 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 4:58:28

**End Date:**
4/18/2015 5:04:27

**Operator Note:**
'2.5 2.8 b Auto Complete'

**Northing:**
371,088.66

**Easting:**
257,751.62

**Tide (feet):**
2.50



## Hole: C20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:03:45 | 30.84 | 30.24 | 549 | 2.14 | 0.14 | 30.0 |
| 4/17/2015 20:03:45 | 31.17 | 30.57 | 549 | 2.15 | 0.14 | 30.0 |
| 4/17/2015 20:03:46 | 31.50 | 30.90 | 549 | 2.14 | 0.14 | 30.0 |
| 4/17/2015 20:03:47 | 31.82 | 31.22 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:03:48 | 32.15 | 31.55 | 529 | 2.14 | 0.14 | 28.9 |
| 4/17/2015 20:03:48 | 32.48 | 31.88 | 529 | 2.14 | 0.15 | 28.9 |
| 4/17/2015 20:03:49 | 32.81 | 32.21 | 541 | 2.14 | 0.14 | 29.6 |
| 4/17/2015 20:03:50 | 33.14 | 32.54 | 529 | 2.14 | 0.14 | 29.0 |
| 4/17/2015 20:03:50 | 33.46 | 32.86 | 529 | 2.14 | 0.14 | 29.0 |
| 4/17/2015 20:03:51 | 33.79 | 33.19 | 541 | 2.14 | 0.14 | 29.6 |
| 4/17/2015 20:03:51 | 34.12 | 33.52 | 555 | 2.13 | 0.14 | 30.3 |
| 4/17/2015 20:03:52 | 34.45 | 33.85 | 542 | 2.15 | 0.14 | 29.6 |
| 4/17/2015 20:03:53 | 34.78 | 34.18 | 554 | 2.14 | 0.14 | 30.3 |
| 4/17/2015 20:03:53 | 35.11 | 34.51 | 549 | 2.14 | 0.14 | 30.0 |
| 4/17/2015 20:03:54 | 35.43 | 34.83 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:03:55 | 35.76 | 35.16 | 550 | 2.14 | 0.14 | 30.1 |
| 4/17/2015 20:03:55 | 36.09 | 35.49 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:03:56 | 36.42 | 35.82 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:03:56 | 36.75 | 36.15 | 549 | 2.13 | 0.14 | 30.0 |
| 4/17/2015 20:03:57 | 37.07 | 36.47 | 549 | 2.13 | 0.14 | 30.0 |
| 4/17/2015 20:03:58 | 37.40 | 36.80 | 546 | 2.12 | 0.14 | 29.9 |
| 4/17/2015 20:03:59 | 37.73 | 37.13 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:03:59 | 38.06 | 37.46 | 549 | 2.14 | 0.14 | 30.0 |
| 4/17/2015 20:04:00 | 38.39 | 37.79 | 546 | 2.14 | 0.14 | 29.9 |
| 4/17/2015 20:04:01 | 38.71 | 38.11 | 552 | 2.14 | 0.14 | 30.2 |
| 4/17/2015 20:04:01 | 39.04 | 38.44 | 553 | 2.19 | 0.14 | 30.2 |
| 4/17/2015 20:04:38 | 39.37 | 38.77 | 68 | 2.29 | 1.27 | 3.7 |
| 4/17/2015 20:04:44 | 39.70 | 39.10 | 55 | 2.33 | 1.29 | 3.0 |
| 4/17/2015 20:04:50 | 40.03 | 39.43 | 62 | 2.36 | 1.31 | 3.4 |
| 4/17/2015 20:04:55 | 40.34 | 39.74 | 63 | 2.37 | 1.27 | 3.4 |

## C20 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 20:02:06

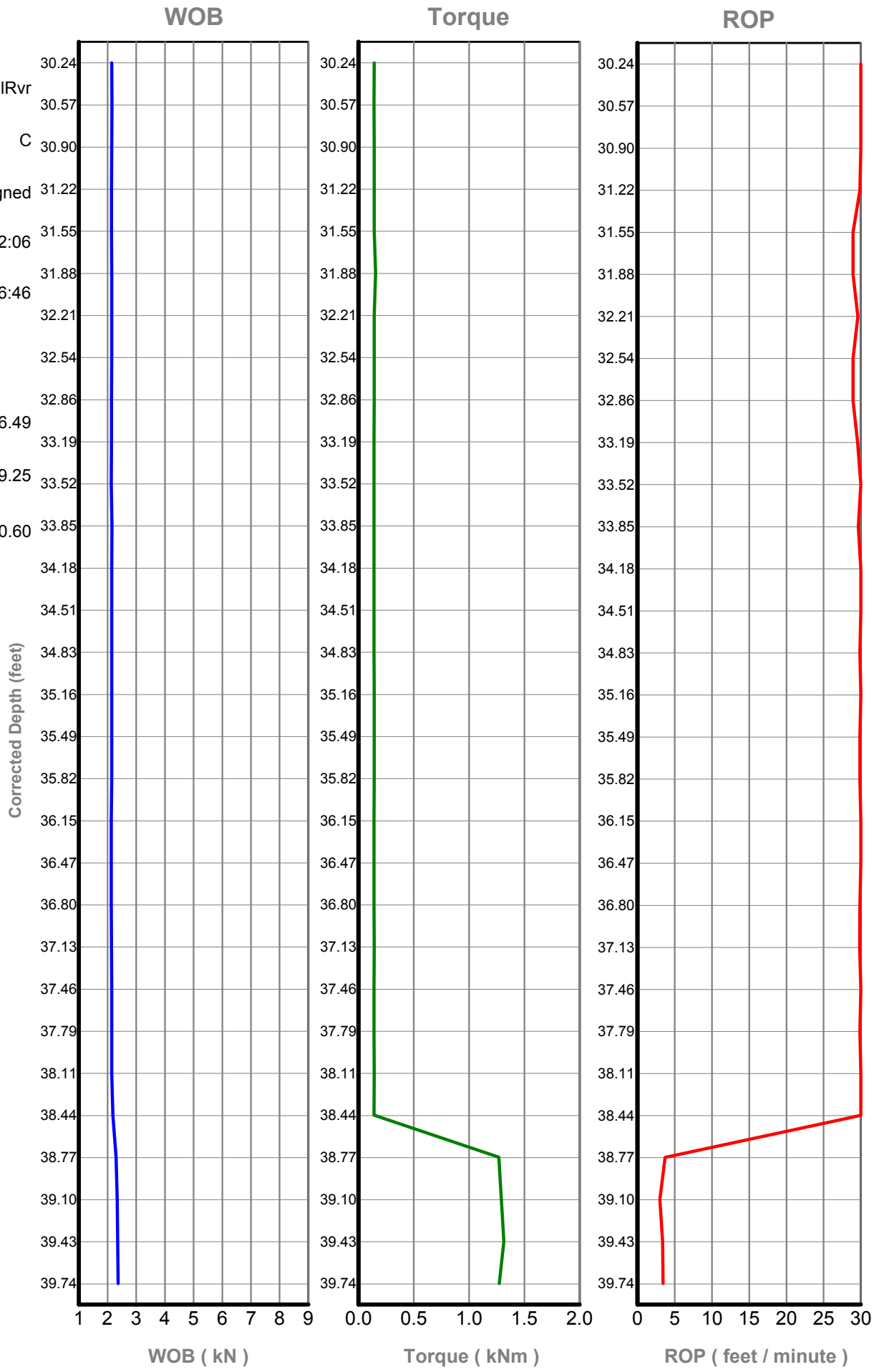
**End Date:**
4/17/2015 20:06:46

**Operator Note:**
'0.6 -0.8 c Auto Complete'

**Northing:**
371,246.49

**Easting:**
258,269.25

**Tide (feet):**
0.60



## Hole: C22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:04:39 | 30.84 | 30.24 | 991 | 0.19 | 0.34 | 54.2 |
| 4/17/2015 20:04:38 | 31.17 | 30.57 | 963 | 0.20 | 0.35 | 52.7 |
| 4/17/2015 20:04:39 | 31.50 | 30.90 | 963 | 0.20 | 0.35 | 52.7 |
| 4/17/2015 20:04:40 | 31.82 | 31.22 | 978 | 0.20 | 0.35 | 53.5 |
| 4/17/2015 20:04:40 | 32.15 | 31.55 | 978 | 0.20 | 0.35 | 53.5 |
| 4/17/2015 20:04:40 | 32.48 | 31.88 | 967 | 0.20 | 0.34 | 52.9 |
| 4/17/2015 20:04:41 | 32.81 | 32.21 | 966 | 0.20 | 0.34 | 52.8 |
| 4/17/2015 20:04:41 | 33.14 | 32.54 | 966 | 0.20 | 0.34 | 52.8 |
| 4/17/2015 20:04:41 | 33.46 | 32.86 | 970 | 0.20 | 0.34 | 53.0 |
| 4/17/2015 20:04:42 | 33.79 | 33.19 | 983 | 0.20 | 0.34 | 53.8 |
| 4/17/2015 20:04:42 | 34.12 | 33.52 | 983 | 0.20 | 0.34 | 53.8 |
| 4/17/2015 20:04:42 | 34.45 | 33.85 | 971 | 0.20 | 0.34 | 53.1 |
| 4/17/2015 20:04:43 | 34.78 | 34.18 | 971 | 0.20 | 0.34 | 53.1 |
| 4/17/2015 20:04:43 | 35.11 | 34.51 | 974 | 0.20 | 0.34 | 53.3 |
| 4/17/2015 20:04:44 | 35.43 | 34.83 | 974 | 0.20 | 0.34 | 53.3 |
| 4/17/2015 20:04:44 | 35.76 | 35.16 | 965 | 0.20 | 0.34 | 52.8 |
| 4/17/2015 20:04:44 | 36.09 | 35.49 | 962 | 0.20 | 0.35 | 52.6 |
| 4/17/2015 20:04:45 | 36.42 | 35.82 | 962 | 0.20 | 0.35 | 52.6 |
| 4/17/2015 20:04:45 | 36.75 | 36.15 | 962 | 0.20 | 0.35 | 52.6 |
| 4/17/2015 20:04:45 | 37.07 | 36.47 | 968 | 0.20 | 0.34 | 53.0 |
| 4/17/2015 20:04:46 | 37.40 | 36.80 | 971 | 0.20 | 0.35 | 53.1 |
| 4/17/2015 20:04:46 | 37.73 | 37.13 | 971 | 0.20 | 0.35 | 53.1 |
| 4/17/2015 20:04:46 | 38.06 | 37.46 | 968 | 0.20 | 0.35 | 53.0 |
| 4/17/2015 20:04:47 | 38.39 | 37.79 | 968 | 0.20 | 0.35 | 53.0 |
| 4/17/2015 20:04:47 | 38.71 | 38.11 | 968 | 0.20 | 0.35 | 53.0 |
| 4/17/2015 20:04:47 | 39.04 | 38.44 | 980 | 0.20 | 0.35 | 53.6 |
| 4/17/2015 20:04:48 | 39.37 | 38.77 | 974 | 0.20 | 0.35 | 53.3 |
| 4/17/2015 20:04:48 | 39.70 | 39.10 | 974 | 0.20 | 0.35 | 53.3 |
| 4/17/2015 20:05:25 | 40.03 | 39.43 | 0 | 3.21 | 0.42 | 0.0 |
| 4/17/2015 20:05:40 | 40.35 | 39.75 | 82 | 4.22 | 0.41 | 4.5 |
| 4/17/2015 20:05:44 | 40.68 | 40.08 | 94 | 3.61 | 0.41 | 5.1 |
| 4/17/2015 20:05:50 | 41.01 | 40.41 | 42 | 3.36 | 0.42 | 2.3 |
| 4/17/2015 20:06:03 | 41.34 | 40.74 | 28 | 3.39 | 0.42 | 1.5 |
| 4/17/2015 20:06:17 | 41.67 | 41.07 | 27 | 3.66 | 0.43 | 1.5 |
| 4/17/2015 20:06:21 | 41.80 | 41.20 | 35 | 3.79 | 0.42 | 1.9 |

## C22 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 20:02:17

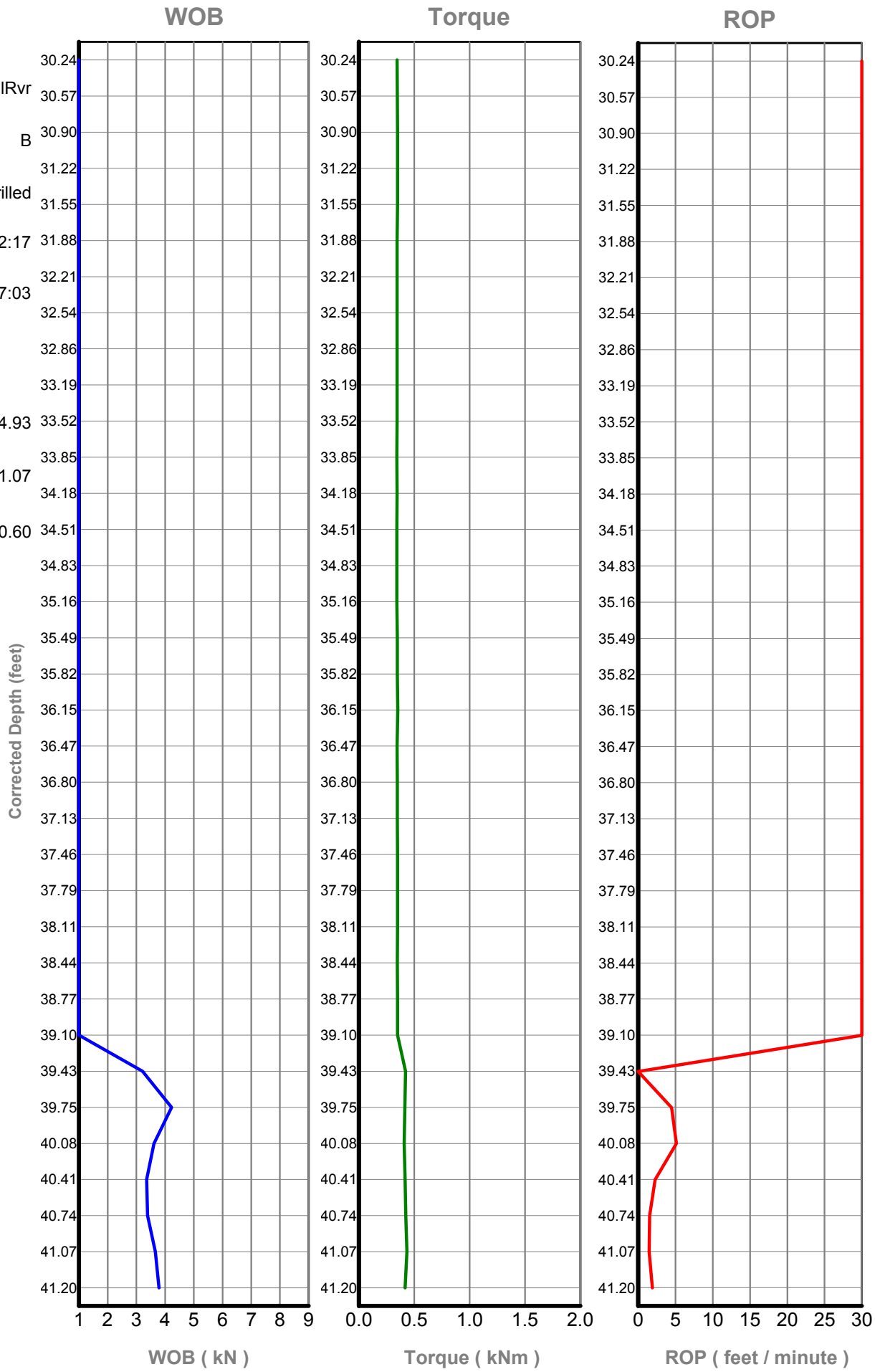
**End Date:**
4/17/2015 20:07:03

**Operator Note:**
'0.6 -8 b Auto Complete'

**Northing:**
371,214.93

**Easting:**
258,201.07

**Tide (feet):**
0.60



## Hole: C23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:15:18 | 32.15 | 30.25 | 1,099 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 17:15:19 | 32.48 | 30.58 | 1,099 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 17:15:19 | 32.81 | 30.91 | 1,099 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 17:15:19 | 33.14 | 31.24 | 1,085 | 0.45 | 0.33 | 59.3 |
| 4/17/2015 17:15:20 | 33.46 | 31.56 | 1,085 | 0.45 | 0.33 | 59.3 |
| 4/17/2015 17:15:20 | 33.79 | 31.89 | 1,089 | 0.45 | 0.32 | 59.5 |
| 4/17/2015 17:15:20 | 34.12 | 32.22 | 1,059 | 0.45 | 0.32 | 57.9 |
| 4/17/2015 17:15:21 | 34.45 | 32.55 | 1,059 | 0.45 | 0.32 | 57.9 |
| 4/17/2015 17:15:21 | 34.78 | 32.88 | 1,059 | 0.45 | 0.32 | 57.9 |
| 4/17/2015 17:15:22 | 35.11 | 33.21 | 1,059 | 0.45 | 0.32 | 57.9 |
| 4/17/2015 17:15:21 | 35.43 | 33.53 | 1,091 | 0.45 | 0.32 | 59.7 |
| 4/17/2015 17:15:22 | 35.76 | 33.86 | 1,082 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 17:15:23 | 36.09 | 34.19 | 1,082 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 17:15:23 | 36.42 | 34.52 | 1,089 | 0.45 | 0.31 | 59.5 |
| 4/17/2015 17:15:23 | 36.75 | 34.85 | 1,083 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 17:15:24 | 37.07 | 35.17 | 1,083 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 17:15:24 | 37.40 | 35.50 | 1,115 | 0.45 | 0.31 | 61.0 |
| 4/17/2015 17:15:24 | 37.73 | 35.83 | 1,115 | 0.45 | 0.31 | 61.0 |
| 4/17/2015 17:15:24 | 38.06 | 36.16 | 1,099 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 17:15:25 | 38.39 | 36.49 | 1,096 | 0.45 | 0.32 | 59.9 |
| 4/17/2015 17:15:25 | 38.71 | 36.81 | 1,096 | 0.45 | 0.32 | 59.9 |
| 4/17/2015 17:15:25 | 39.04 | 37.14 | 1,086 | 0.45 | 0.31 | 59.4 |
| 4/17/2015 17:15:26 | 39.37 | 37.47 | 1,093 | 0.45 | 0.32 | 59.8 |
| 4/17/2015 17:15:26 | 39.70 | 37.80 | 1,093 | 0.45 | 0.32 | 59.8 |
| 4/17/2015 17:15:26 | 40.03 | 38.13 | 1,087 | 0.44 | 0.33 | 59.4 |
| 4/17/2015 17:15:27 | 40.35 | 38.45 | 1,069 | 0.45 | 0.33 | 58.5 |
| 4/17/2015 17:15:27 | 40.68 | 38.78 | 1,069 | 0.45 | 0.33 | 58.5 |
| 4/17/2015 17:15:27 | 41.01 | 39.11 | 1,032 | 0.44 | 0.34 | 56.4 |
| 4/17/2015 17:15:28 | 41.34 | 39.44 | 995 | 0.46 | 0.36 | 54.4 |
| 4/17/2015 17:15:45 | 41.67 | 39.77 | 52 | 2.76 | 0.46 | 2.8 |
| 4/17/2015 17:15:48 | 41.99 | 40.09 | 120 | 5.13 | 0.46 | 6.6 |
| 4/17/2015 17:15:56 | 42.32 | 40.42 | 58 | 4.37 | 0.47 | 3.2 |
| 4/17/2015 17:16:07 | 42.65 | 40.75 | 29 | 3.84 | 0.36 | 1.6 |
| 4/17/2015 17:16:15 | 42.98 | 41.08 | 35 | 3.80 | 0.42 | 1.9 |
| 4/17/2015 17:16:26 | 43.31 | 41.41 | 32 | 4.15 | 0.42 | 1.7 |
| 4/17/2015 17:16:39 | 43.64 | 41.74 | 29 | 3.94 | 0.39 | 1.6 |
| 4/17/2015 17:16:43 | 43.74 | 41.84 | 26 | 3.96 | 0.41 | 1.4 |

## C23 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:14:05

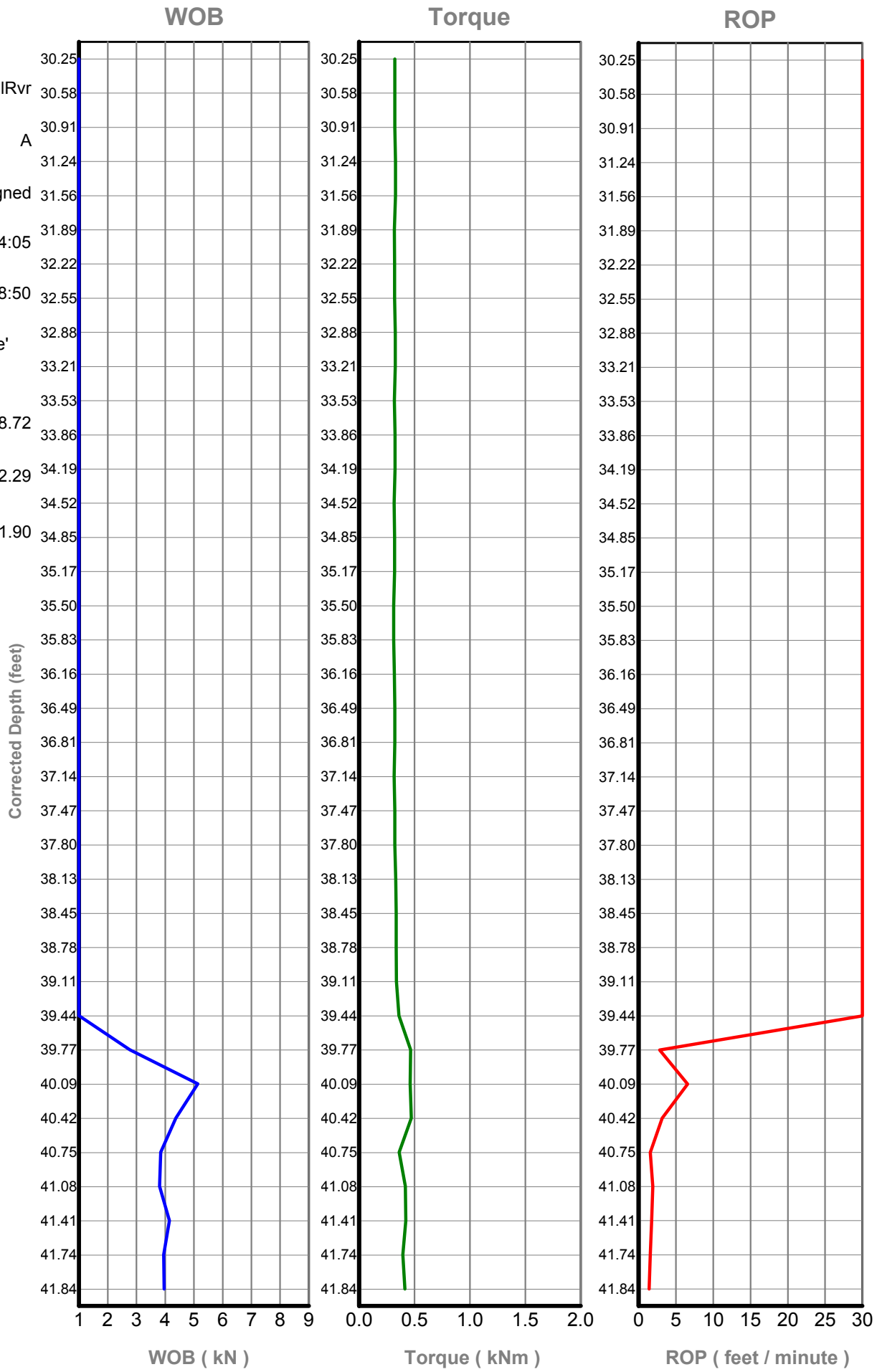
**End Date:**
4/17/2015 17:18:50

**Operator Note:**
'1.9 2.0 a Auto Complete'

**Northing:**
371,278.72

**Easting:**
258,332.29

**Tide (feet):**
1.90



## Hole: C24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:15:22 | 32.15 | 30.25 | 622 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:22 | 32.48 | 30.58 | 621 | 2.12 | 0.26 | 33.9 |
| 4/17/2015 17:15:23 | 32.81 | 30.91 | 628 | 2.12 | 0.26 | 34.3 |
| 4/17/2015 17:15:23 | 33.14 | 31.24 | 621 | 2.10 | 0.26 | 34.0 |
| 4/17/2015 17:15:24 | 33.46 | 31.56 | 618 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:25 | 33.79 | 31.89 | 625 | 2.12 | 0.26 | 34.2 |
| 4/17/2015 17:15:25 | 34.12 | 32.22 | 625 | 2.11 | 0.26 | 34.2 |
| 4/17/2015 17:15:26 | 34.45 | 32.55 | 622 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:26 | 34.78 | 32.88 | 618 | 2.13 | 0.26 | 33.8 |
| 4/17/2015 17:15:27 | 35.11 | 33.21 | 625 | 2.12 | 0.19 | 34.2 |
| 4/17/2015 17:15:27 | 35.43 | 33.53 | 619 | 2.11 | 0.26 | 33.8 |
| 4/17/2015 17:15:28 | 35.76 | 33.86 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:28 | 36.09 | 34.19 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:29 | 36.42 | 34.52 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:30 | 36.75 | 34.85 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:30 | 37.07 | 35.17 | 618 | 2.10 | 0.26 | 33.8 |
| 4/17/2015 17:15:31 | 37.40 | 35.50 | 621 | 2.12 | 0.25 | 34.0 |
| 4/17/2015 17:15:32 | 37.73 | 35.83 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:32 | 38.06 | 36.16 | 619 | 2.10 | 0.26 | 33.8 |
| 4/17/2015 17:15:33 | 38.39 | 36.49 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:33 | 38.71 | 36.81 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:34 | 39.04 | 37.14 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:34 | 39.37 | 37.47 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:35 | 39.70 | 37.80 | 621 | 2.12 | 0.26 | 34.0 |
| 4/17/2015 17:15:36 | 40.03 | 38.13 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:36 | 40.35 | 38.45 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:37 | 40.68 | 38.78 | 619 | 2.13 | 0.26 | 33.8 |
| 4/17/2015 17:15:37 | 41.01 | 39.11 | 625 | 2.12 | 0.26 | 34.2 |
| 4/17/2015 17:15:38 | 41.34 | 39.44 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:38 | 41.67 | 39.77 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:39 | 41.99 | 40.09 | 612 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:15:39 | 42.32 | 40.42 | 619 | 2.11 | 0.26 | 33.8 |
| 4/17/2015 17:15:40 | 42.65 | 40.75 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:15:41 | 42.98 | 41.08 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:15:42 | 43.31 | 41.41 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:15:42 | 43.64 | 41.74 | 608 | 2.13 | 0.26 | 33.3 |
| 4/17/2015 17:15:43 | 43.96 | 42.06 | 608 | 2.12 | 0.24 | 33.3 |
| 4/17/2015 17:15:43 | 44.29 | 42.39 | 609 | 2.12 | 0.26 | 33.3 |
| 4/17/2015 17:15:44 | 44.62 | 42.72 | 615 | 2.12 | 0.26 | 33.6 |
| 4/17/2015 17:15:44 | 44.95 | 43.05 | 612 | 2.12 | 0.26 | 33.5 |
| 4/17/2015 17:15:45 | 45.28 | 43.38 | 613 | 2.12 | 0.26 | 33.5 |
| 4/17/2015 17:15:46 | 45.60 | 43.70 | 620 | 2.11 | 0.26 | 33.9 |
| 4/17/2015 17:15:46 | 45.93 | 44.03 | 613 | 2.12 | 0.26 | 33.5 |
| 4/17/2015 17:15:47 | 46.26 | 44.36 | 620 | 2.12 | 0.26 | 33.9 |
| 4/17/2015 17:15:47 | 46.59 | 44.69 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:15:48 | 46.92 | 45.02 | 620 | 2.12 | 0.26 | 33.9 |
| 4/17/2015 17:15:48 | 47.24 | 45.34 | 610 | 2.17 | 0.26 | 33.4 |
| 4/17/2015 17:16:18 | 47.57 | 45.67 | 41 | 2.22 | 0.98 | 2.3 |
| 4/17/2015 17:16:23 | 47.90 | 46.00 | 40 | 2.21 | 1.16 | 2.2 |
| 4/17/2015 17:16:24 | 48.23 | 46.33 | 162 | 2.27 | 1.23 | 8.9 |
| 4/17/2015 17:16:50 | 48.56 | 46.66 | 0 | 2.28 | 1.34 | 0.0 |
| 4/17/2015 17:16:55 | 48.88 | 46.98 | 81 | 2.33 | 1.23 | 4.4 |
| 4/17/2015 17:16:59 | 49.21 | 47.31 | 92 | 2.32 | 1.25 | 5.0 |
| 4/17/2015 17:17:01 | 49.54 | 47.64 | 133 | 2.31 | 1.17 | 7.3 |
| 4/17/2015 17:17:08 | 49.87 | 47.97 | 52 | 2.34 | 1.32 | 2.8 |
| 4/17/2015 17:17:15 | 50.20 | 48.30 | 46 | 2.36 | 1.23 | 2.5 |
| 4/17/2015 17:17:24 | 50.53 | 48.63 | 32 | 2.36 | 1.50 | 1.7 |
| 4/17/2015 17:17:35 | 50.85 | 48.95 | 17 | 2.35 | 1.50 | 1.0 |
| 4/17/2015 17:17:54 | 51.18 | 49.28 | 46 | 2.33 | 1.15 | 2.5 |
| 4/17/2015 17:18:01 | 51.51 | 49.61 | 39 | 2.33 | 1.27 | 2.2 |
| 4/17/2015 17:18:08 | 51.79 | 49.89 | 40 | 2.36 | 1.47 | 2.2 |

## C24 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:13:44

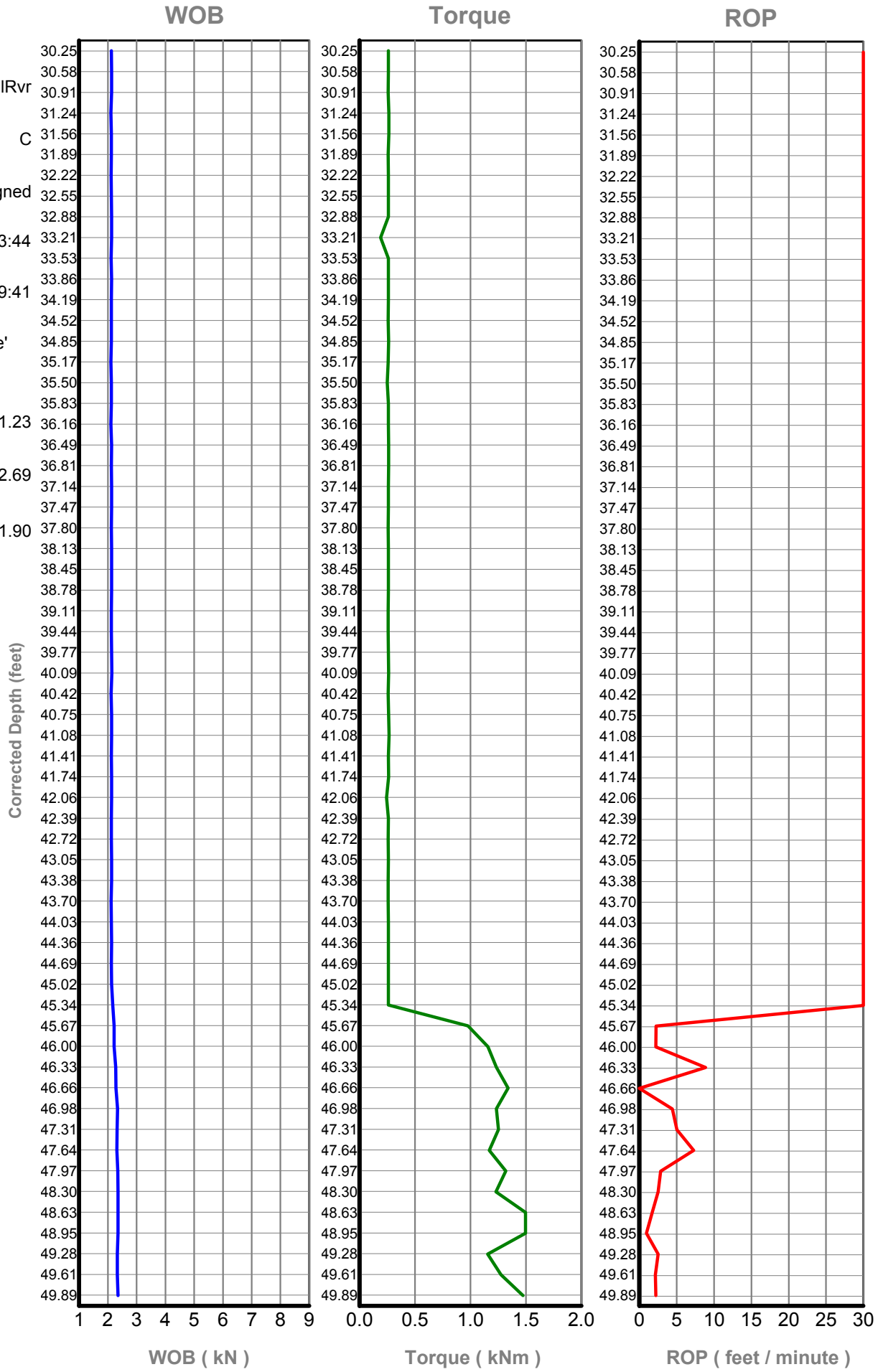
**End Date:**
4/17/2015 17:19:41

**Operator Note:**
'1.9 2.0 c Auto Complete'

**Northing:**
371,331.23

**Easting:**
258,472.69

**Tide (feet):**
1.90



## Hole: C25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 3:46:05 | 34.12 | 30.32 | 1,070 | 0.16 | 0.34 | 58.5 |
| 4/18/2015 3:46:06 | 34.45 | 30.65 | 1,070 | 0.16 | 0.34 | 58.5 |
| 4/18/2015 3:46:06 | 34.78 | 30.98 | 1,057 | 0.16 | 0.33 | 57.8 |
| 4/18/2015 3:46:06 | 35.11 | 31.31 | 1,061 | 0.16 | 0.32 | 58.0 |
| 4/18/2015 3:46:07 | 35.43 | 31.63 | 1,061 | 0.16 | 0.32 | 58.0 |
| 4/18/2015 3:46:07 | 35.76 | 31.96 | 1,052 | 0.16 | 0.33 | 57.5 |
| 4/18/2015 3:46:07 | 36.09 | 32.29 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:08 | 36.42 | 32.62 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:08 | 36.75 | 32.95 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:08 | 37.07 | 33.27 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:09 | 37.40 | 33.60 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:09 | 37.73 | 33.93 | 1,046 | 0.16 | 0.33 | 57.2 |
| 4/18/2015 3:46:09 | 38.06 | 34.26 | 1,046 | 0.16 | 0.33 | 57.2 |
| 4/18/2015 3:46:09 | 38.39 | 34.59 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:10 | 38.71 | 34.91 | 1,043 | 0.16 | 0.32 | 57.0 |
| 4/18/2015 3:46:11 | 39.04 | 35.24 | 1,043 | 0.16 | 0.32 | 57.0 |
| 4/18/2015 3:46:11 | 39.37 | 35.57 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:11 | 39.70 | 35.90 | 1,059 | 0.16 | 0.33 | 57.9 |
| 4/18/2015 3:46:12 | 40.03 | 36.23 | 1,059 | 0.16 | 0.33 | 57.9 |
| 4/18/2015 3:46:12 | 40.35 | 36.55 | 1,055 | 0.16 | 0.33 | 57.7 |
| 4/18/2015 3:46:12 | 40.68 | 36.88 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:13 | 41.01 | 37.21 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:13 | 41.34 | 37.54 | 1,059 | 0.16 | 0.34 | 57.9 |
| 4/18/2015 3:46:13 | 41.67 | 37.87 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/18/2015 3:46:14 | 41.99 | 38.19 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/18/2015 3:46:14 | 42.32 | 38.52 | 1,035 | 0.16 | 0.34 | 56.6 |
| 4/18/2015 3:46:14 | 42.65 | 38.85 | 1,035 | 0.12 | 0.33 | 56.6 |
| 4/18/2015 3:46:15 | 42.98 | 39.18 | 1,035 | 0.12 | 0.33 | 56.6 |
| 4/18/2015 3:46:15 | 43.31 | 39.51 | 1,047 | 0.16 | 0.34 | 57.3 |
| 4/18/2015 3:46:15 | 43.64 | 39.84 | 1,035 | 0.16 | 0.33 | 56.6 |
| 4/18/2015 3:46:16 | 43.96 | 40.16 | 1,035 | 0.16 | 0.33 | 56.6 |
| 4/18/2015 3:46:16 | 44.29 | 40.49 | 1,043 | 0.16 | 0.34 | 57.1 |
| 4/18/2015 3:46:16 | 44.62 | 40.82 | 1,049 | 0.16 | 0.34 | 57.4 |
| 4/18/2015 3:46:17 | 44.95 | 41.15 | 1,049 | 0.16 | 0.34 | 57.4 |
| 4/18/2015 3:46:17 | 45.28 | 41.48 | 1,059 | 0.16 | 0.34 | 57.9 |
| 4/18/2015 3:46:17 | 45.60 | 41.80 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:18 | 45.93 | 42.13 | 1,049 | 0.16 | 0.33 | 57.4 |
| 4/18/2015 3:46:18 | 46.26 | 42.46 | 1,061 | 0.19 | 0.33 | 58.0 |
| 4/18/2015 3:46:18 | 46.59 | 42.79 | 1,061 | 0.19 | 0.33 | 58.0 |
| 4/18/2015 3:46:18 | 46.92 | 43.12 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 3:46:19 | 47.24 | 43.44 | 1,056 | 0.16 | 0.33 | 57.7 |
| 4/18/2015 3:46:19 | 47.57 | 43.77 | 1,056 | 0.16 | 0.33 | 57.7 |
| 4/18/2015 3:46:19 | 47.90 | 44.10 | 1,053 | 0.16 | 0.33 | 57.6 |
| 4/18/2015 3:46:20 | 48.23 | 44.43 | 1,056 | 0.16 | 0.36 | 57.7 |
| 4/18/2015 3:46:58 | 48.56 | 44.76 | 0 | 2.87 | 0.38 | 0.0 |
| 4/18/2015 3:46:59 | 48.88 | 45.08 | 113 | 2.93 | 0.36 | 6.2 |
| 4/18/2015 3:47:00 | 49.21 | 45.41 | 270 | 2.52 | 0.38 | 14.8 |
| 4/18/2015 3:47:01 | 49.54 | 45.74 | 367 | 2.84 | 0.40 | 20.1 |
| 4/18/2015 3:47:03 | 49.87 | 46.07 | 267 | 4.66 | 0.40 | 14.6 |
| 4/18/2015 3:47:05 | 50.20 | 46.40 | 156 | 3.92 | 0.38 | 8.5 |
| 4/18/2015 3:47:07 | 50.53 | 46.73 | 155 | 3.79 | 0.39 | 8.5 |
| 4/18/2015 3:47:20 | 50.85 | 47.05 | 3 | 4.39 | 0.42 | 0.2 |
| 4/18/2015 3:47:33 | 51.18 | 47.38 | 58 | 4.46 | 0.38 | 3.2 |
| 4/18/2015 3:47:34 | 51.51 | 47.71 | 169 | 2.62 | 0.37 | 9.3 |
| 4/18/2015 3:47:35 | 51.84 | 48.04 | 269 | 2.65 | 0.37 | 14.7 |
| 4/18/2015 3:47:35 | 52.17 | 48.37 | 381 | 2.89 | 0.37 | 20.8 |
| 4/18/2015 3:47:36 | 52.49 | 48.69 | 501 | 3.52 | 0.39 | 27.4 |
| 4/18/2015 3:47:37 | 52.82 | 49.02 | 475 | 2.88 | 0.39 | 26.0 |
| 4/18/2015 3:47:38 | 53.15 | 49.35 | 470 | 2.49 | 0.37 | 25.7 |
| 4/18/2015 3:47:38 | 53.48 | 49.68 | 484 | 2.57 | 0.37 | 26.5 |
| 4/18/2015 3:47:39 | 53.81 | 50.01 | 545 | 2.63 | 0.37 | 29.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 3:47:39 | 54.13 | 50.33 | 591 | 3.20 | 0.39 | 32.3 |
| 4/18/2015 | 3:47:40 | 54.46 | 50.66 | 520 | 2.71 | 0.39 | 28.4 |
| 4/18/2015 | 3:47:41 | 54.79 | 50.99 | 433 | 2.66 | 0.38 | 23.7 |
| 4/18/2015 | 3:47:42 | 55.12 | 51.32 | 413 | 2.86 | 0.38 | 22.6 |
| 4/18/2015 | 3:47:43 | 55.45 | 51.65 | 454 | 3.13 | 0.40 | 24.8 |
| 4/18/2015 | 3:47:43 | 55.77 | 51.97 | 443 | 2.99 | 0.38 | 24.2 |
| 4/18/2015 | 3:47:45 | 56.10 | 52.30 | 375 | 3.38 | 0.40 | 20.5 |
| 4/18/2015 | 3:47:46 | 56.43 | 52.63 | 318 | 3.48 | 0.40 | 17.4 |
| 4/18/2015 | 3:47:48 | 56.76 | 52.96 | 243 | 3.69 | 0.40 | 13.3 |
| 4/18/2015 | 3:47:51 | 57.09 | 53.29 | 140 | 4.37 | 0.39 | 7.7 |
| 4/18/2015 | 3:47:52 | 57.41 | 53.61 | 147 | 2.69 | 0.37 | 8.1 |
| 4/18/2015 | 3:47:52 | 57.74 | 53.94 | 206 | 3.38 | 0.38 | 11.3 |
| 4/18/2015 | 3:47:53 | 58.07 | 54.27 | 393 | 2.63 | 0.37 | 21.5 |
| 4/18/2015 | 3:47:54 | 58.40 | 54.60 | 485 | 3.09 | 0.39 | 26.5 |
| 4/18/2015 | 3:47:56 | 58.73 | 54.93 | 400 | 2.97 | 0.39 | 21.9 |
| 4/18/2015 | 3:47:56 | 59.06 | 55.26 | 366 | 3.01 | 0.38 | 20.0 |
| 4/18/2015 | 3:47:57 | 59.38 | 55.58 | 340 | 4.29 | 0.41 | 18.6 |
| 4/18/2015 | 3:47:59 | 59.54 | 55.74 | 267 | 3.80 | 0.39 | 14.6 |

## C25 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 3:43:24

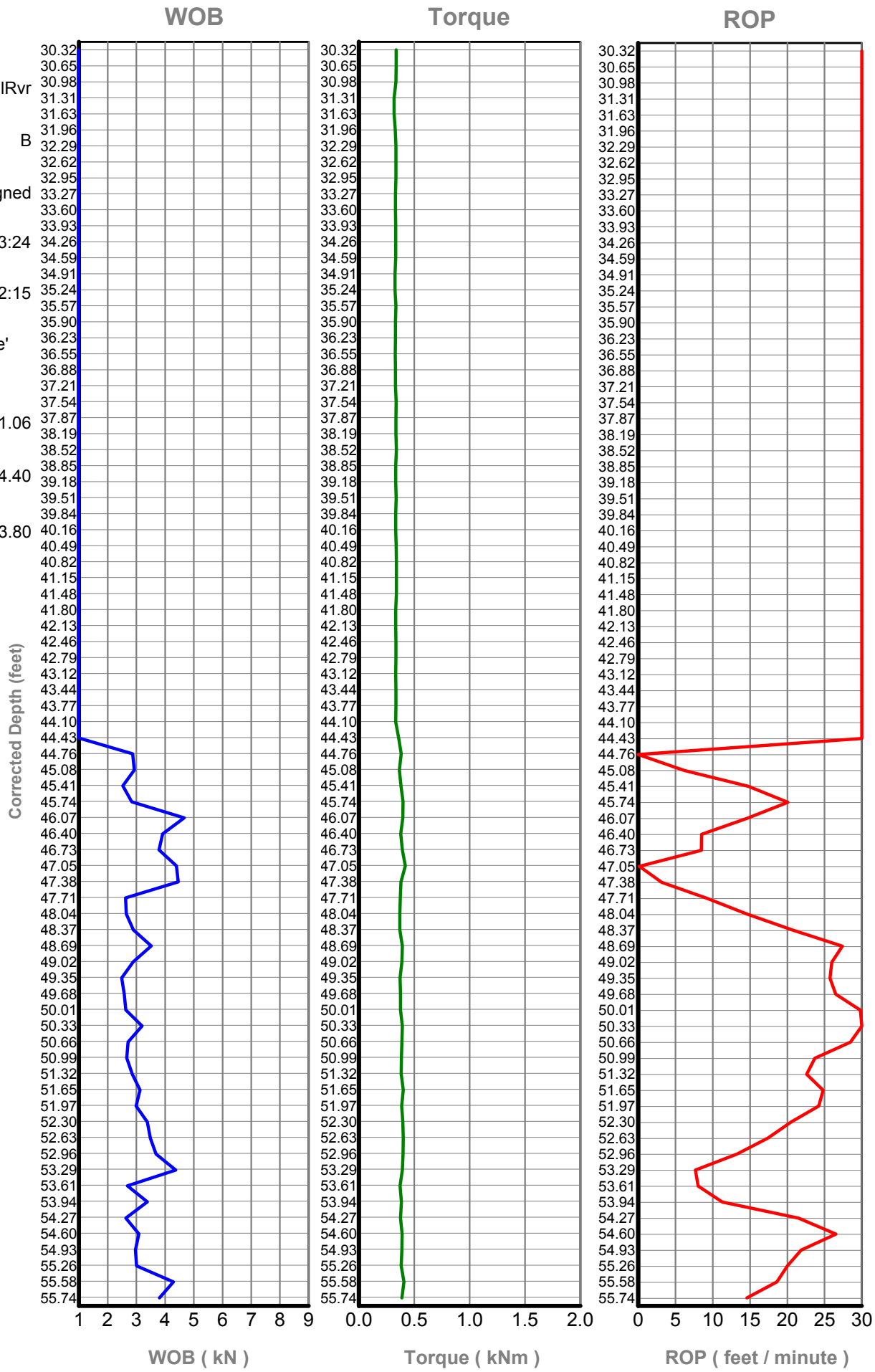
**End Date:**
4/18/2015 3:52:15

**Operator Note:**
'3.8 4.5 b Auto Complete'

**Northing:**
370,931.06

**Easting:**
257,764.40

**Tide (feet):**
3.80



## Hole: C26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 3:35:58 | 34.12 | 30.12 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/18/2015 3:35:59 | 34.45 | 30.45 | 1,041 | 0.16 | 0.34 | 56.9 |
| 4/18/2015 3:35:59 | 34.78 | 30.78 | 1,041 | 0.16 | 0.34 | 56.9 |
| 4/18/2015 3:35:59 | 35.11 | 31.11 | 1,047 | 0.16 | 0.35 | 57.3 |
| 4/18/2015 3:36:00 | 35.43 | 31.43 | 1,029 | 0.16 | 0.33 | 56.3 |
| 4/18/2015 3:36:00 | 35.76 | 31.76 | 1,029 | 0.16 | 0.33 | 56.3 |
| 4/18/2015 3:36:00 | 36.09 | 32.09 | 1,026 | 0.16 | 0.33 | 56.1 |
| 4/18/2015 3:36:01 | 36.42 | 32.42 | 1,023 | 0.16 | 0.33 | 55.9 |
| 4/18/2015 3:36:01 | 36.75 | 32.75 | 1,023 | 0.16 | 0.33 | 55.9 |
| 4/18/2015 3:36:01 | 37.07 | 33.07 | 1,032 | 0.16 | 0.34 | 56.4 |
| 4/18/2015 3:36:02 | 37.40 | 33.40 | 1,017 | 0.17 | 0.34 | 55.6 |
| 4/18/2015 3:36:02 | 37.73 | 33.73 | 1,017 | 0.17 | 0.34 | 55.6 |
| 4/18/2015 3:36:02 | 38.06 | 34.06 | 1,023 | 0.16 | 0.34 | 56.0 |
| 4/18/2015 3:36:03 | 38.39 | 34.39 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 3:36:03 | 38.71 | 34.71 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 3:36:03 | 39.04 | 35.04 | 1,026 | 0.16 | 0.33 | 56.1 |
| 4/18/2015 3:36:04 | 39.37 | 35.37 | 1,023 | 0.16 | 0.33 | 56.0 |
| 4/18/2015 3:36:04 | 39.70 | 35.70 | 1,023 | 0.16 | 0.33 | 56.0 |
| 4/18/2015 3:36:04 | 40.03 | 36.03 | 1,023 | 0.16 | 0.33 | 56.0 |
| 4/18/2015 3:36:05 | 40.35 | 36.35 | 1,029 | 0.16 | 0.34 | 56.3 |
| 4/18/2015 3:36:05 | 40.68 | 36.68 | 1,029 | 0.16 | 0.34 | 56.3 |
| 4/18/2015 3:36:05 | 41.01 | 37.01 | 1,029 | 0.17 | 0.33 | 56.3 |
| 4/18/2015 3:36:06 | 41.34 | 37.34 | 1,023 | 0.16 | 0.34 | 56.0 |
| 4/18/2015 3:36:07 | 41.67 | 37.67 | 1,023 | 0.16 | 0.34 | 56.0 |
| 4/18/2015 3:36:07 | 41.99 | 37.99 | 1,018 | 0.16 | 0.34 | 55.6 |
| 4/18/2015 3:36:07 | 42.32 | 38.32 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 3:36:08 | 42.65 | 38.65 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 3:36:08 | 42.98 | 38.98 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 3:36:08 | 43.31 | 39.31 | 1,018 | 0.14 | 0.34 | 55.6 |
| 4/18/2015 3:36:09 | 43.64 | 39.64 | 1,018 | 0.14 | 0.34 | 55.6 |
| 4/18/2015 3:36:09 | 43.96 | 39.96 | 1,021 | 0.17 | 0.34 | 55.8 |
| 4/18/2015 3:36:09 | 44.29 | 40.29 | 1,023 | 0.16 | 0.33 | 56.0 |
| 4/18/2015 3:36:10 | 44.62 | 40.62 | 1,023 | 0.16 | 0.33 | 56.0 |
| 4/18/2015 3:36:10 | 44.95 | 40.95 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 3:36:10 | 45.28 | 41.28 | 1,023 | 0.14 | 0.41 | 56.0 |
| 4/18/2015 3:36:48 | 45.60 | 41.60 | 92 | 4.83 | 0.37 | 5.0 |
| 4/18/2015 3:36:51 | 45.93 | 41.93 | 96 | 3.71 | 0.40 | 5.3 |
| 4/18/2015 3:36:52 | 46.26 | 42.26 | 176 | 2.83 | 0.38 | 9.6 |
| 4/18/2015 3:36:53 | 46.59 | 42.59 | 288 | 2.88 | 0.37 | 15.8 |
| 4/18/2015 3:36:53 | 46.92 | 42.92 | 399 | 2.66 | 0.37 | 21.8 |
| 4/18/2015 3:36:54 | 47.24 | 43.24 | 496 | 3.24 | 0.39 | 27.1 |
| 4/18/2015 3:36:55 | 47.57 | 43.57 | 605 | 3.14 | 0.37 | 33.1 |
| 4/18/2015 3:36:55 | 47.90 | 43.90 | 578 | 3.33 | 0.39 | 31.6 |
| 4/18/2015 3:36:56 | 48.23 | 44.23 | 494 | 3.75 | 0.40 | 27.0 |
| 4/18/2015 3:36:57 | 48.56 | 44.56 | 462 | 5.01 | 0.40 | 25.3 |
| 4/18/2015 3:36:58 | 48.88 | 44.88 | 407 | 4.07 | 0.41 | 22.3 |
| 4/18/2015 3:37:01 | 49.21 | 45.21 | 171 | 3.01 | 0.42 | 9.3 |
| 4/18/2015 3:37:11 | 49.54 | 45.54 | 55 | 2.00 | 0.42 | 3.0 |
| 4/18/2015 3:37:27 | 49.87 | 45.87 | 98 | 5.63 | 0.40 | 5.4 |
| 4/18/2015 3:37:30 | 50.20 | 46.20 | 116 | 3.36 | 0.37 | 6.3 |
| 4/18/2015 3:37:34 | 50.53 | 46.53 | 47 | 3.43 | 0.40 | 2.5 |
| 4/18/2015 3:37:35 | 50.85 | 46.85 | 134 | 4.12 | 0.40 | 7.3 |
| 4/18/2015 3:37:36 | 51.18 | 47.18 | 281 | 4.55 | 0.38 | 15.4 |
| 4/18/2015 3:37:37 | 51.51 | 47.51 | 333 | 3.76 | 0.38 | 18.2 |
| 4/18/2015 3:37:39 | 51.84 | 47.84 | 289 | 3.31 | 0.38 | 15.8 |
| 4/18/2015 3:37:39 | 52.17 | 48.17 | 323 | 2.62 | 0.36 | 17.7 |
| 4/18/2015 3:37:40 | 52.49 | 48.49 | 379 | 2.64 | 0.36 | 20.7 |
| 4/18/2015 3:37:41 | 52.82 | 48.82 | 480 | 2.71 | 0.39 | 26.3 |
| 4/18/2015 3:37:43 | 53.15 | 49.15 | 339 | 3.44 | 0.38 | 18.5 |
| 4/18/2015 3:37:44 | 53.48 | 49.48 | 295 | 3.40 | 0.38 | 16.1 |
| 4/18/2015 3:37:45 | 53.81 | 49.81 | 309 | 2.57 | 0.37 | 16.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 3:37:45 | 54.13 | 50.13 | 376 | 3.14 | 0.38 | 20.6 |
| 4/18/2015 | 3:37:46 | 54.46 | 50.46 | 475 | 3.05 | 0.38 | 26.0 |
| 4/18/2015 | 3:37:47 | 54.79 | 50.79 | 466 | 3.02 | 0.38 | 25.5 |
| 4/18/2015 | 3:37:48 | 55.12 | 51.12 | 446 | 2.36 | 0.38 | 24.4 |
| 4/18/2015 | 3:37:48 | 55.45 | 51.45 | 477 | 3.48 | 0.39 | 26.1 |
| 4/18/2015 | 3:37:50 | 55.77 | 51.77 | 379 | 5.52 | 0.41 | 20.7 |
| 4/18/2015 | 3:37:52 | 56.10 | 52.10 | 100 | 3.97 | 0.38 | 5.5 |
| 4/18/2015 | 3:37:54 | 56.43 | 52.43 | 237 | 3.33 | 0.40 | 13.0 |
| 4/18/2015 | 3:37:55 | 56.76 | 52.76 | 234 | 3.38 | 0.40 | 12.8 |
| 4/18/2015 | 3:37:57 | 57.09 | 53.09 | 232 | 2.99 | 0.39 | 12.7 |
| 4/18/2015 | 3:37:58 | 57.41 | 53.41 | 278 | 2.84 | 0.38 | 15.2 |
| 4/18/2015 | 3:37:59 | 57.74 | 53.74 | 354 | 2.76 | 0.38 | 19.3 |
| 4/18/2015 | 3:37:59 | 58.07 | 54.07 | 393 | 2.38 | 0.38 | 21.5 |
| 4/18/2015 | 3:38:00 | 58.40 | 54.40 | 430 | 2.52 | 0.38 | 23.5 |
| 4/18/2015 | 3:38:01 | 58.73 | 54.73 | 480 | 2.52 | 0.38 | 26.2 |
| 4/18/2015 | 3:38:02 | 59.06 | 55.06 | 486 | 2.84 | 0.39 | 26.6 |
| 4/18/2015 | 3:38:03 | 59.38 | 55.38 | 446 | 2.85 | 0.39 | 24.4 |
| 4/18/2015 | 3:38:04 | 59.71 | 55.71 | 425 | 3.60 | 0.39 | 23.3 |
| 4/18/2015 | 3:38:05 | 59.96 | 55.96 | 341 | 4.35 | 0.42 | 18.7 |

## C26 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 3:32:11

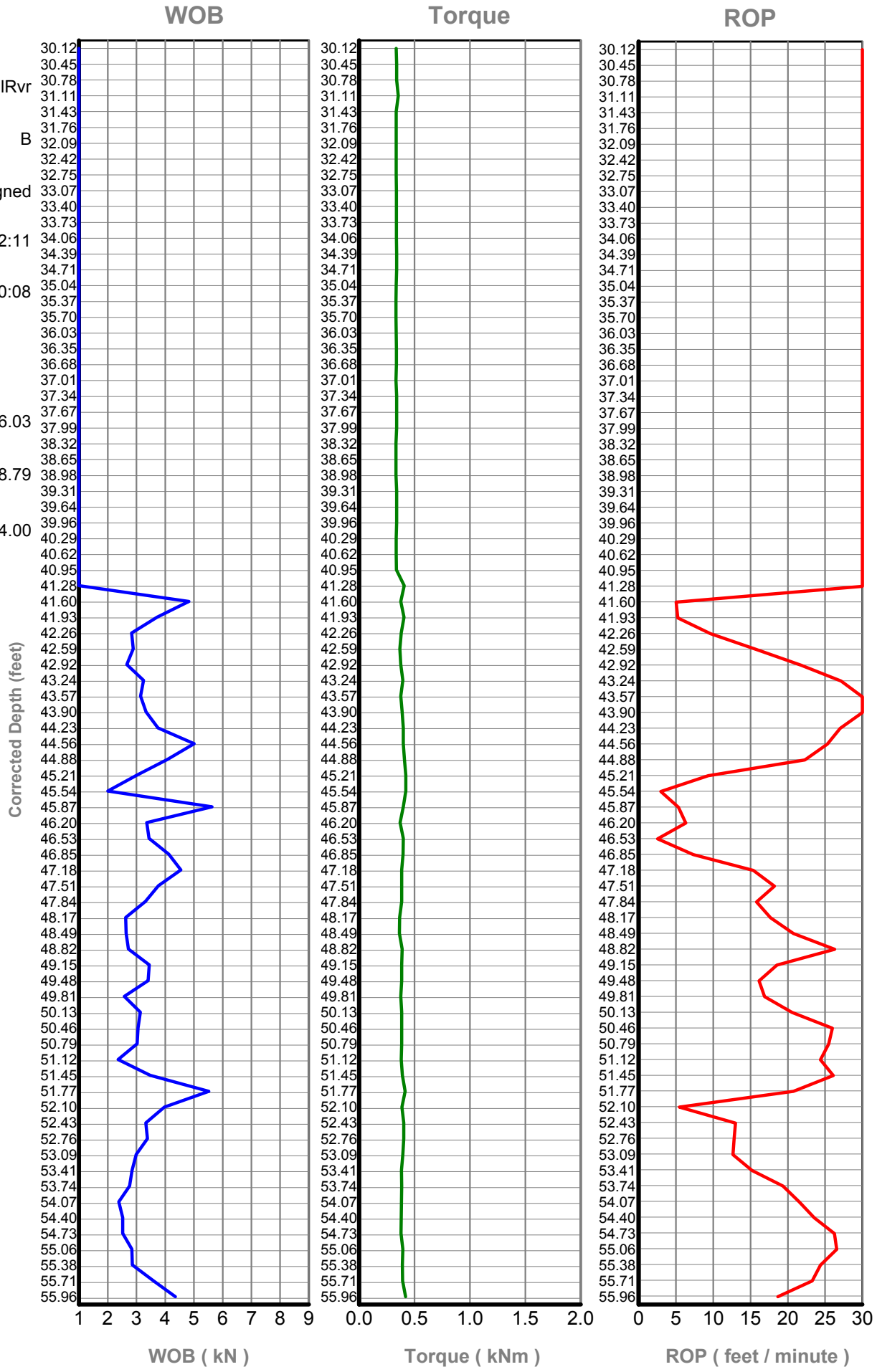
**End Date:**
4/18/2015 3:40:08

**Operator Note:**
'4 4.5 b Auto Complete'

**Northing:**
370,956.03

**Easting:**
257,818.79

**Tide (feet):**
4.00



## Hole: C27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 3:20:28 | 34.45 | 30.05 | 595 | 2.14 | 0.14 | 32.5 |
| 4/18/2015 3:20:28 | 34.78 | 30.38 | 592 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 3:20:29 | 35.11 | 30.71 | 598 | 2.13 | 0.14 | 32.7 |
| 4/18/2015 3:20:29 | 35.43 | 31.03 | 596 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 3:20:30 | 35.76 | 31.36 | 609 | 2.15 | 0.14 | 33.3 |
| 4/18/2015 3:20:31 | 36.09 | 31.69 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:31 | 36.42 | 32.02 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:32 | 36.75 | 32.35 | 599 | 2.14 | 0.14 | 32.7 |
| 4/18/2015 3:20:33 | 37.07 | 32.67 | 592 | 2.17 | 0.14 | 32.4 |
| 4/18/2015 3:20:33 | 37.40 | 33.00 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 3:20:34 | 37.73 | 33.33 | 593 | 2.14 | 0.14 | 32.4 |
| 4/18/2015 3:20:34 | 38.06 | 33.66 | 593 | 2.14 | 0.14 | 32.4 |
| 4/18/2015 3:20:35 | 38.39 | 33.99 | 594 | 2.14 | 0.14 | 32.5 |
| 4/18/2015 3:20:35 | 38.71 | 34.31 | 594 | 2.13 | 0.14 | 32.5 |
| 4/18/2015 3:20:36 | 39.04 | 34.64 | 594 | 2.14 | 0.14 | 32.5 |
| 4/18/2015 3:20:37 | 39.37 | 34.97 | 604 | 2.14 | 0.14 | 33.0 |
| 4/18/2015 3:20:37 | 39.70 | 35.30 | 601 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 3:20:38 | 40.03 | 35.63 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 3:20:38 | 40.35 | 35.95 | 598 | 2.14 | 0.14 | 32.7 |
| 4/18/2015 3:20:39 | 40.68 | 36.28 | 598 | 2.14 | 0.14 | 32.7 |
| 4/18/2015 3:20:39 | 41.01 | 36.61 | 605 | 2.14 | 0.14 | 33.1 |
| 4/18/2015 3:20:41 | 41.34 | 36.94 | 598 | 2.14 | 0.14 | 32.7 |
| 4/18/2015 3:20:41 | 41.67 | 37.27 | 592 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 3:20:42 | 41.99 | 37.59 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 3:20:42 | 42.32 | 37.92 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:43 | 42.65 | 38.25 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:43 | 42.98 | 38.58 | 596 | 2.14 | 0.14 | 32.6 |
| 4/18/2015 3:20:44 | 43.31 | 38.91 | 606 | 2.15 | 0.14 | 33.1 |
| 4/18/2015 3:20:45 | 43.64 | 39.24 | 585 | 2.14 | 0.14 | 32.0 |
| 4/18/2015 3:20:45 | 43.96 | 39.56 | 589 | 2.14 | 0.14 | 32.2 |
| 4/18/2015 3:20:46 | 44.29 | 39.89 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:46 | 44.62 | 40.22 | 596 | 2.14 | 0.14 | 32.6 |
| 4/18/2015 3:20:47 | 44.95 | 40.55 | 600 | 2.13 | 0.14 | 32.8 |
| 4/18/2015 3:20:47 | 45.28 | 40.88 | 600 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:48 | 45.60 | 41.20 | 606 | 2.14 | 0.14 | 33.2 |
| 4/18/2015 3:20:49 | 45.93 | 41.53 | 596 | 2.14 | 0.14 | 32.6 |
| 4/18/2015 3:20:49 | 46.26 | 41.86 | 596 | 2.14 | 0.14 | 32.6 |
| 4/18/2015 3:20:50 | 46.59 | 42.19 | 599 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 3:20:51 | 46.92 | 42.52 | 589 | 2.14 | 0.14 | 32.2 |
| 4/18/2015 3:20:51 | 47.24 | 42.84 | 593 | 2.14 | 0.14 | 32.4 |
| 4/18/2015 3:20:52 | 47.57 | 43.17 | 592 | 2.14 | 0.14 | 32.4 |
| 4/18/2015 3:20:53 | 47.90 | 43.50 | 593 | 2.21 | 0.14 | 32.4 |
| 4/18/2015 3:21:20 | 48.23 | 43.83 | 31 | 2.17 | 1.16 | 1.7 |
| 4/18/2015 3:21:21 | 48.56 | 44.16 | 110 | 2.26 | 1.24 | 6.0 |
| 4/18/2015 3:21:25 | 48.88 | 44.48 | 124 | 2.17 | 1.13 | 6.8 |
| 4/18/2015 3:21:25 | 49.21 | 44.81 | 195 | 2.19 | 1.21 | 10.7 |
| 4/18/2015 3:21:28 | 49.54 | 45.14 | 137 | 2.18 | 1.10 | 7.5 |
| 4/18/2015 3:21:30 | 49.87 | 45.47 | 137 | 2.22 | 1.21 | 7.5 |
| 4/18/2015 3:21:30 | 50.20 | 45.80 | 214 | 2.19 | 1.08 | 11.7 |
| 4/18/2015 3:21:41 | 50.53 | 46.13 | 46 | 2.27 | 1.18 | 2.5 |
| 4/18/2015 3:21:42 | 50.85 | 46.45 | 123 | 2.26 | 1.22 | 6.7 |
| 4/18/2015 3:21:43 | 51.18 | 46.78 | 274 | 2.27 | 1.36 | 15.0 |
| 4/18/2015 3:21:44 | 51.51 | 47.11 | 373 | 2.27 | 1.17 | 20.4 |
| 4/18/2015 3:21:45 | 51.84 | 47.44 | 369 | 2.22 | 1.18 | 20.2 |
| 4/18/2015 3:21:46 | 52.17 | 47.77 | 373 | 2.23 | 1.21 | 20.4 |
| 4/18/2015 3:21:51 | 52.49 | 48.09 | 17 | 2.17 | 1.06 | 0.9 |
| 4/18/2015 3:21:51 | 52.82 | 48.42 | 117 | 2.18 | 1.11 | 6.4 |
| 4/18/2015 3:21:52 | 53.15 | 48.75 | 300 | 2.19 | 1.09 | 16.4 |
| 4/18/2015 3:21:53 | 53.48 | 49.08 | 391 | 2.20 | 1.10 | 21.4 |
| 4/18/2015 3:21:58 | 53.81 | 49.41 | 20 | 2.18 | 1.11 | 1.1 |
| 4/18/2015 3:21:59 | 54.13 | 49.73 | 206 | 2.17 | 1.03 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 3:21:59 | 54.46 | 50.06 | 303 | 2.19 | 1.06 | 16.6 |
| 4/18/2015 | 3:22:00 | 54.79 | 50.39 | 377 | 2.25 | 1.20 | 20.6 |
| 4/18/2015 | 3:22:04 | 55.12 | 50.72 | 86 | 2.18 | 1.10 | 4.7 |
| 4/18/2015 | 3:22:11 | 55.45 | 51.05 | 23 | 2.19 | 1.12 | 1.2 |
| 4/18/2015 | 3:22:12 | 55.77 | 51.37 | 121 | 2.28 | 1.29 | 6.6 |
| 4/18/2015 | 3:22:27 | 56.10 | 51.70 | 35 | 2.22 | 1.19 | 1.9 |
| 4/18/2015 | 3:22:28 | 56.43 | 52.03 | 162 | 2.25 | 1.11 | 8.9 |
| 4/18/2015 | 3:22:29 | 56.76 | 52.36 | 304 | 2.25 | 1.16 | 16.6 |
| 4/18/2015 | 3:22:33 | 57.09 | 52.69 | 21 | 2.24 | 1.17 | 1.1 |
| 4/18/2015 | 3:22:36 | 57.41 | 53.01 | 143 | 2.28 | 1.15 | 7.8 |
| 4/18/2015 | 3:22:37 | 57.74 | 53.34 | 189 | 2.25 | 1.14 | 10.3 |
| 4/18/2015 | 3:22:47 | 58.07 | 53.67 | 34 | 2.29 | 1.33 | 1.9 |
| 4/18/2015 | 3:22:51 | 58.40 | 54.00 | 103 | 2.28 | 1.23 | 5.7 |
| 4/18/2015 | 3:22:52 | 58.73 | 54.33 | 114 | 2.22 | 1.07 | 6.2 |
| 4/18/2015 | 3:22:53 | 59.06 | 54.66 | 178 | 2.23 | 1.12 | 9.8 |
| 4/18/2015 | 3:22:54 | 59.38 | 54.98 | 232 | 2.21 | 1.09 | 12.7 |
| 4/18/2015 | 3:22:57 | 59.71 | 55.31 | 135 | 2.26 | 1.31 | 7.4 |
| 4/18/2015 | 3:22:58 | 59.79 | 55.39 | 120 | 2.28 | 1.26 | 6.6 |

## C27 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 3:18:42

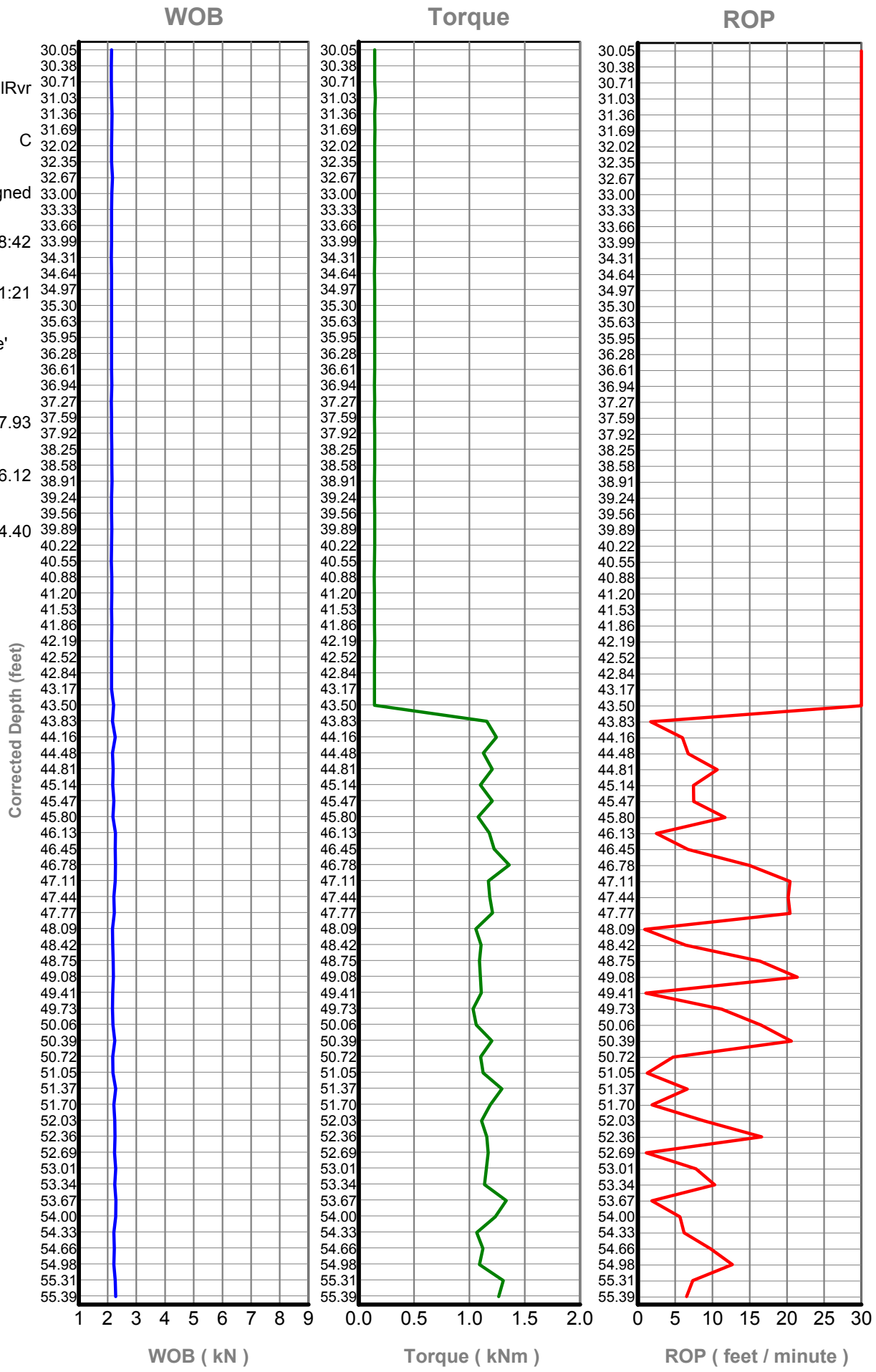
**End Date:**
4/18/2015 3:41:21

**Operator Note:**
'4.4 4.5 c Auto Complete'

**Northing:**
370,987.93

**Easting:**
257,886.12

**Tide (feet):**
4.40



## Hole: C28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:49:27 | 34.12 | 30.32 | 1,146 | 0.47 | 0.33 | 62.7 |
| 4/17/2015 21:49:27 | 34.45 | 30.65 | 1,153 | 0.48 | 0.32 | 63.1 |
| 4/17/2015 21:49:28 | 34.78 | 30.98 | 1,146 | 0.47 | 0.32 | 62.7 |
| 4/17/2015 21:49:28 | 35.11 | 31.31 | 1,146 | 0.47 | 0.32 | 62.7 |
| 4/17/2015 21:49:28 | 35.43 | 31.63 | 1,156 | 0.47 | 0.33 | 63.2 |
| 4/17/2015 21:49:29 | 35.76 | 31.96 | 1,156 | 0.47 | 0.33 | 63.2 |
| 4/17/2015 21:49:29 | 36.09 | 32.29 | 1,151 | 0.47 | 0.33 | 62.9 |
| 4/17/2015 21:49:29 | 36.42 | 32.62 | 1,158 | 0.47 | 0.33 | 63.3 |
| 4/17/2015 21:49:30 | 36.75 | 32.95 | 1,158 | 0.47 | 0.33 | 63.3 |
| 4/17/2015 21:49:30 | 37.07 | 33.27 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:30 | 37.40 | 33.60 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:30 | 37.73 | 33.93 | 1,153 | 0.47 | 0.32 | 63.1 |
| 4/17/2015 21:49:31 | 38.06 | 34.26 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:31 | 38.39 | 34.59 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:31 | 38.71 | 34.91 | 1,148 | 0.46 | 0.34 | 62.8 |
| 4/17/2015 21:49:32 | 39.04 | 35.24 | 1,148 | 0.46 | 0.34 | 62.8 |
| 4/17/2015 21:49:32 | 39.37 | 35.57 | 1,143 | 0.47 | 0.33 | 62.5 |
| 4/17/2015 21:49:32 | 39.70 | 35.90 | 1,153 | 0.48 | 0.33 | 63.1 |
| 4/17/2015 21:49:33 | 40.03 | 36.23 | 1,153 | 0.48 | 0.33 | 63.1 |
| 4/17/2015 21:49:33 | 40.35 | 36.55 | 1,148 | 0.47 | 0.32 | 62.8 |
| 4/17/2015 21:49:33 | 40.68 | 36.88 | 1,148 | 0.47 | 0.32 | 62.8 |
| 4/17/2015 21:49:33 | 41.01 | 37.21 | 1,148 | 0.47 | 0.32 | 62.8 |
| 4/17/2015 21:49:34 | 41.34 | 37.54 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:35 | 41.67 | 37.87 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:34 | 41.99 | 38.19 | 1,145 | 0.47 | 0.32 | 62.6 |
| 4/17/2015 21:49:35 | 42.32 | 38.52 | 1,145 | 0.47 | 0.32 | 62.6 |
| 4/17/2015 21:49:35 | 42.65 | 38.85 | 1,142 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 21:49:36 | 42.98 | 39.18 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:36 | 43.31 | 39.51 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:36 | 43.64 | 39.84 | 1,135 | 0.47 | 0.31 | 62.1 |
| 4/17/2015 21:49:37 | 43.96 | 40.16 | 1,135 | 0.47 | 0.31 | 62.1 |
| 4/17/2015 21:49:37 | 44.29 | 40.49 | 1,151 | 0.47 | 0.33 | 62.9 |
| 4/17/2015 21:49:37 | 44.62 | 40.82 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:38 | 44.95 | 41.15 | 1,148 | 0.47 | 0.33 | 62.8 |
| 4/17/2015 21:49:38 | 45.28 | 41.48 | 1,148 | 0.46 | 0.33 | 62.8 |
| 4/17/2015 21:49:38 | 45.60 | 41.80 | 1,148 | 0.46 | 0.33 | 62.8 |
| 4/17/2015 21:49:38 | 45.93 | 42.13 | 1,145 | 0.47 | 0.32 | 62.6 |
| 4/17/2015 21:49:39 | 46.26 | 42.46 | 1,148 | 0.47 | 0.32 | 62.8 |
| 4/17/2015 21:49:39 | 46.59 | 42.79 | 1,148 | 0.47 | 0.32 | 62.8 |
| 4/17/2015 21:49:39 | 46.92 | 43.12 | 1,142 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 21:49:40 | 47.24 | 43.44 | 1,142 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 21:49:40 | 47.57 | 43.77 | 1,142 | 0.48 | 0.33 | 62.4 |
| 4/17/2015 21:49:40 | 47.90 | 44.10 | 1,135 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 21:49:41 | 48.23 | 44.43 | 1,135 | 0.47 | 0.33 | 62.1 |
| 4/17/2015 21:49:41 | 48.56 | 44.76 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:41 | 48.88 | 45.08 | 1,145 | 0.47 | 0.33 | 62.6 |
| 4/17/2015 21:49:41 | 49.21 | 45.41 | 1,142 | 0.47 | 0.32 | 62.4 |
| 4/17/2015 21:49:42 | 49.54 | 45.74 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:49:42 | 49.87 | 46.07 | 1,142 | 0.47 | 0.33 | 62.4 |
| 4/17/2015 21:49:42 | 50.20 | 46.40 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:49:43 | 50.53 | 46.73 | 1,139 | 0.47 | 0.33 | 62.3 |
| 4/17/2015 21:49:43 | 50.85 | 47.05 | 1,129 | 0.47 | 0.33 | 61.8 |
| 4/17/2015 21:49:43 | 51.18 | 47.38 | 1,129 | 0.43 | 0.37 | 61.8 |
| 4/17/2015 21:50:17 | 51.51 | 47.71 | 50 | 4.95 | 0.48 | 2.7 |
| 4/17/2015 21:50:24 | 51.84 | 48.04 | 26 | 3.91 | 0.44 | 1.4 |
| 4/17/2015 21:50:25 | 52.17 | 48.37 | 52 | 3.46 | 0.39 | 2.8 |
| 4/17/2015 21:50:25 | 52.49 | 48.69 | 181 | 3.19 | 0.33 | 9.9 |
| 4/17/2015 21:50:26 | 52.82 | 49.02 | 338 | 2.74 | 0.37 | 18.5 |
| 4/17/2015 21:50:27 | 53.15 | 49.35 | 515 | 3.18 | 0.40 | 28.2 |
| 4/17/2015 21:50:27 | 53.48 | 49.68 | 672 | 3.05 | 0.33 | 36.8 |
| 4/17/2015 21:50:28 | 53.81 | 50.01 | 672 | 3.05 | 0.33 | 36.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:50:28 | 54.13 | 50.33 | 817 | 2.65 | 0.36 | 44.7 |
| 4/17/2015 | 21:50:28 | 54.46 | 50.66 | 870 | 3.24 | 0.42 | 47.6 |
| 4/17/2015 | 21:50:29 | 54.79 | 50.99 | 870 | 3.28 | 0.43 | 47.6 |
| 4/17/2015 | 21:50:29 | 55.12 | 51.32 | 822 | 4.38 | 0.45 | 44.9 |
| 4/17/2015 | 21:50:30 | 55.45 | 51.65 | 653 | 3.59 | 0.43 | 35.7 |
| 4/17/2015 | 21:50:31 | 55.77 | 51.97 | 435 | 4.24 | 0.43 | 23.8 |
| 4/17/2015 | 21:50:32 | 56.10 | 52.30 | 402 | 3.05 | 0.42 | 22.0 |
| 4/17/2015 | 21:50:33 | 56.43 | 52.63 | 434 | 2.87 | 0.41 | 23.7 |
| 4/17/2015 | 21:50:33 | 56.76 | 52.96 | 434 | 2.87 | 0.41 | 23.7 |
| 4/17/2015 | 21:50:33 | 57.09 | 53.29 | 522 | 2.81 | 0.40 | 28.6 |
| 4/17/2015 | 21:50:34 | 57.41 | 53.61 | 614 | 2.85 | 0.41 | 33.6 |
| 4/17/2015 | 21:50:34 | 57.74 | 53.94 | 719 | 3.16 | 0.41 | 39.3 |
| 4/17/2015 | 21:50:35 | 58.07 | 54.27 | 727 | 3.74 | 0.42 | 39.8 |
| 4/17/2015 | 21:50:36 | 58.40 | 54.60 | 619 | 3.74 | 0.44 | 33.9 |
| 4/17/2015 | 21:50:36 | 58.73 | 54.93 | 558 | 3.46 | 0.43 | 30.5 |
| 4/17/2015 | 21:50:38 | 59.06 | 55.26 | 507 | 2.74 | 0.14 | 27.7 |
| 4/17/2015 | 21:50:38 | 59.22 | 55.42 | 507 | 2.74 | 0.14 | 27.7 |

## C28 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:45:35

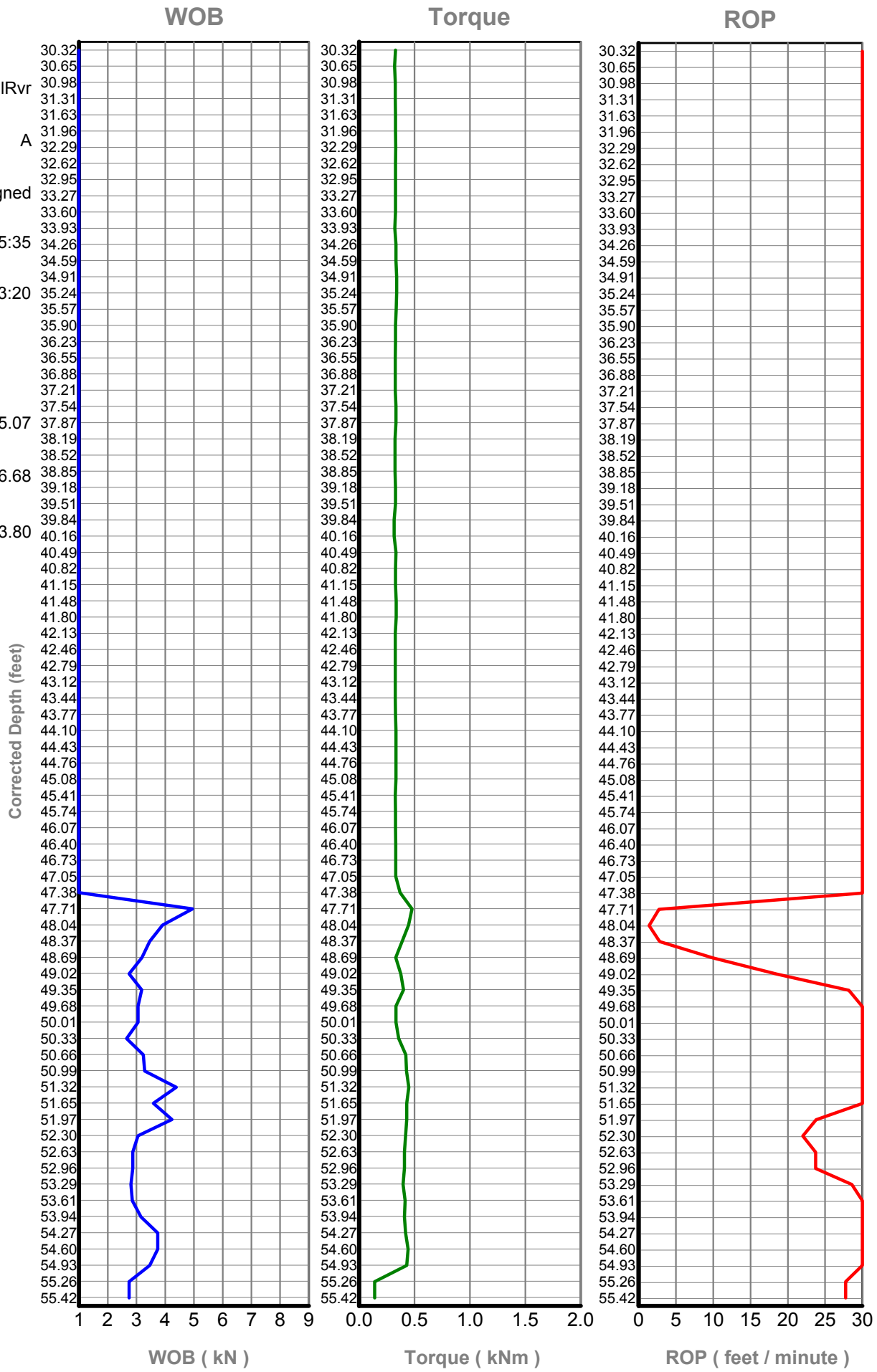
**End Date:**
4/17/2015 21:53:20

**Operator Note:**
'3.8 3.72 a Auto Complete'

**Northing:**
371,015.07

**Easting:**
257,956.68

**Tide (feet):**
3.80



## Hole: C29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:48:40 | 34.12 | 30.32 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/17/2015 21:48:40 | 34.45 | 30.65 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/17/2015 21:48:40 | 34.78 | 30.98 | 1,023 | 0.18 | 0.34 | 56.0 |
| 4/17/2015 21:48:41 | 35.11 | 31.31 | 1,021 | 0.19 | 0.34 | 55.8 |
| 4/17/2015 21:48:41 | 35.43 | 31.63 | 1,021 | 0.19 | 0.34 | 55.8 |
| 4/17/2015 21:48:41 | 35.76 | 31.96 | 1,015 | 0.18 | 0.34 | 55.5 |
| 4/17/2015 21:48:42 | 36.09 | 32.29 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/17/2015 21:48:42 | 36.42 | 32.62 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/17/2015 21:48:42 | 36.75 | 32.95 | 1,012 | 0.20 | 0.34 | 55.3 |
| 4/17/2015 21:48:43 | 37.07 | 33.27 | 1,009 | 0.20 | 0.34 | 55.2 |
| 4/17/2015 21:48:43 | 37.40 | 33.60 | 1,009 | 0.20 | 0.34 | 55.2 |
| 4/17/2015 21:48:43 | 37.73 | 33.93 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/17/2015 21:48:44 | 38.06 | 34.26 | 1,000 | 0.20 | 0.35 | 54.7 |
| 4/17/2015 21:48:44 | 38.39 | 34.59 | 1,000 | 0.20 | 0.35 | 54.7 |
| 4/17/2015 21:48:44 | 38.71 | 34.91 | 1,012 | 0.16 | 0.34 | 55.3 |
| 4/17/2015 21:48:45 | 39.04 | 35.24 | 1,012 | 0.24 | 0.34 | 55.3 |
| 4/17/2015 21:48:45 | 39.37 | 35.57 | 1,012 | 0.24 | 0.34 | 55.3 |
| 4/17/2015 21:48:45 | 39.70 | 35.90 | 1,015 | 0.20 | 0.34 | 55.5 |
| 4/17/2015 21:48:46 | 40.03 | 36.23 | 993 | 0.18 | 0.34 | 54.3 |
| 4/17/2015 21:48:46 | 40.35 | 36.55 | 993 | 0.18 | 0.34 | 54.3 |
| 4/17/2015 21:48:46 | 40.68 | 36.88 | 993 | 0.18 | 0.34 | 54.3 |
| 4/17/2015 21:48:47 | 41.01 | 37.21 | 1,007 | 0.18 | 0.34 | 55.0 |
| 4/17/2015 21:48:48 | 41.34 | 37.54 | 1,007 | 0.18 | 0.34 | 55.0 |
| 4/17/2015 21:48:48 | 41.67 | 37.87 | 1,001 | 0.17 | 0.34 | 54.7 |
| 4/17/2015 21:48:48 | 41.99 | 38.19 | 1,001 | 0.17 | 0.34 | 54.7 |
| 4/17/2015 21:48:49 | 42.32 | 38.52 | 1,001 | 0.17 | 0.34 | 54.7 |
| 4/17/2015 21:48:49 | 42.65 | 38.85 | 1,001 | 0.17 | 0.34 | 54.7 |
| 4/17/2015 21:48:49 | 42.98 | 39.18 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 21:48:50 | 43.31 | 39.51 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 21:48:50 | 43.64 | 39.84 | 1,015 | 0.17 | 0.34 | 55.5 |
| 4/17/2015 21:48:50 | 43.96 | 40.16 | 1,018 | 0.16 | 0.35 | 55.6 |
| 4/17/2015 21:48:51 | 44.29 | 40.49 | 1,020 | 0.17 | 0.34 | 55.8 |
| 4/17/2015 21:48:51 | 44.62 | 40.82 | 1,020 | 0.17 | 0.34 | 55.8 |
| 4/17/2015 21:48:51 | 44.95 | 41.15 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/17/2015 21:48:52 | 45.28 | 41.48 | 1,020 | 0.20 | 0.34 | 55.8 |
| 4/17/2015 21:48:52 | 45.60 | 41.80 | 1,020 | 0.20 | 0.34 | 55.8 |
| 4/17/2015 21:48:52 | 45.93 | 42.13 | 1,014 | 0.16 | 0.34 | 55.5 |
| 4/17/2015 21:48:53 | 46.26 | 42.46 | 1,017 | 0.19 | 0.34 | 55.6 |
| 4/17/2015 21:48:53 | 46.59 | 42.79 | 1,017 | 0.19 | 0.34 | 55.6 |
| 4/17/2015 21:48:53 | 46.92 | 43.12 | 1,015 | 0.17 | 0.34 | 55.5 |
| 4/17/2015 21:48:54 | 47.24 | 43.44 | 1,011 | 0.18 | 0.34 | 55.3 |
| 4/17/2015 21:48:54 | 47.57 | 43.77 | 1,011 | 0.18 | 0.34 | 55.3 |
| 4/17/2015 21:48:54 | 47.90 | 44.10 | 1,014 | 0.17 | 0.34 | 55.5 |
| 4/17/2015 21:48:55 | 48.23 | 44.43 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 21:48:55 | 48.56 | 44.76 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 21:48:55 | 48.88 | 45.08 | 1,014 | 0.16 | 0.34 | 55.5 |
| 4/17/2015 21:48:56 | 49.21 | 45.41 | 1,011 | 0.16 | 0.33 | 55.3 |
| 4/17/2015 21:48:56 | 49.54 | 45.74 | 1,011 | 0.16 | 0.33 | 55.3 |
| 4/17/2015 21:48:56 | 49.87 | 46.07 | 1,021 | 0.17 | 0.34 | 55.8 |
| 4/17/2015 21:48:57 | 50.20 | 46.40 | 1,012 | 0.16 | 0.34 | 55.3 |
| 4/17/2015 21:48:58 | 50.53 | 46.73 | 1,012 | 0.16 | 0.34 | 55.3 |
| 4/17/2015 21:48:58 | 50.85 | 47.05 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/17/2015 21:48:58 | 51.18 | 47.38 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/17/2015 21:48:59 | 51.51 | 47.71 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/17/2015 21:48:59 | 51.84 | 48.04 | 1,024 | 0.18 | 0.34 | 56.0 |
| 4/17/2015 21:48:59 | 52.17 | 48.37 | 1,009 | 0.14 | 0.35 | 55.2 |
| 4/17/2015 21:49:00 | 52.49 | 48.69 | 1,009 | 0.14 | 0.35 | 55.2 |
| 4/17/2015 21:49:00 | 52.82 | 49.02 | 1,006 | 0.17 | 0.34 | 55.0 |
| 4/17/2015 21:49:00 | 53.15 | 49.35 | 997 | 0.17 | 0.34 | 54.5 |
| 4/17/2015 21:49:01 | 53.48 | 49.68 | 997 | 0.17 | 0.34 | 54.5 |
| 4/17/2015 21:49:01 | 53.81 | 50.01 | 1,003 | 0.16 | 0.35 | 54.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:49:18 | 54.13 | 50.33 | 0 | 2.87 | 0.36 | 0.0 |
| 4/17/2015 | 21:49:29 | 54.46 | 50.66 | 8 | 2.95 | 0.40 | 0.5 |
| 4/17/2015 | 21:49:30 | 54.79 | 50.99 | 142 | 3.97 | 0.40 | 7.8 |
| 4/17/2015 | 21:49:31 | 55.12 | 51.32 | 240 | 3.95 | 0.40 | 13.1 |
| 4/17/2015 | 21:49:32 | 55.45 | 51.65 | 286 | 1.85 | 0.35 | 15.6 |
| 4/17/2015 | 21:49:33 | 55.77 | 51.97 | 383 | 1.84 | 0.35 | 20.9 |
| 4/17/2015 | 21:49:33 | 56.10 | 52.30 | 494 | 2.02 | 0.37 | 27.0 |
| 4/17/2015 | 21:49:34 | 56.43 | 52.63 | 494 | 2.02 | 0.37 | 27.0 |
| 4/17/2015 | 21:49:34 | 56.76 | 52.96 | 655 | 2.06 | 0.36 | 35.8 |
| 4/17/2015 | 21:49:35 | 57.09 | 53.29 | 718 | 1.97 | 0.37 | 39.3 |
| 4/17/2015 | 21:49:35 | 57.41 | 53.61 | 695 | 1.88 | 0.36 | 38.0 |
| 4/17/2015 | 21:49:36 | 57.74 | 53.94 | 695 | 1.88 | 0.36 | 38.0 |
| 4/17/2015 | 21:49:36 | 58.07 | 54.27 | 665 | 2.03 | 0.37 | 36.4 |
| 4/17/2015 | 21:49:37 | 58.40 | 54.60 | 656 | 2.21 | 0.38 | 35.9 |
| 4/17/2015 | 21:49:37 | 58.73 | 54.93 | 661 | 2.12 | 0.38 | 36.2 |
| 4/17/2015 | 21:49:38 | 59.02 | 55.22 | 549 | 1.82 | 0.34 | 30.0 |

## C29 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:45:32

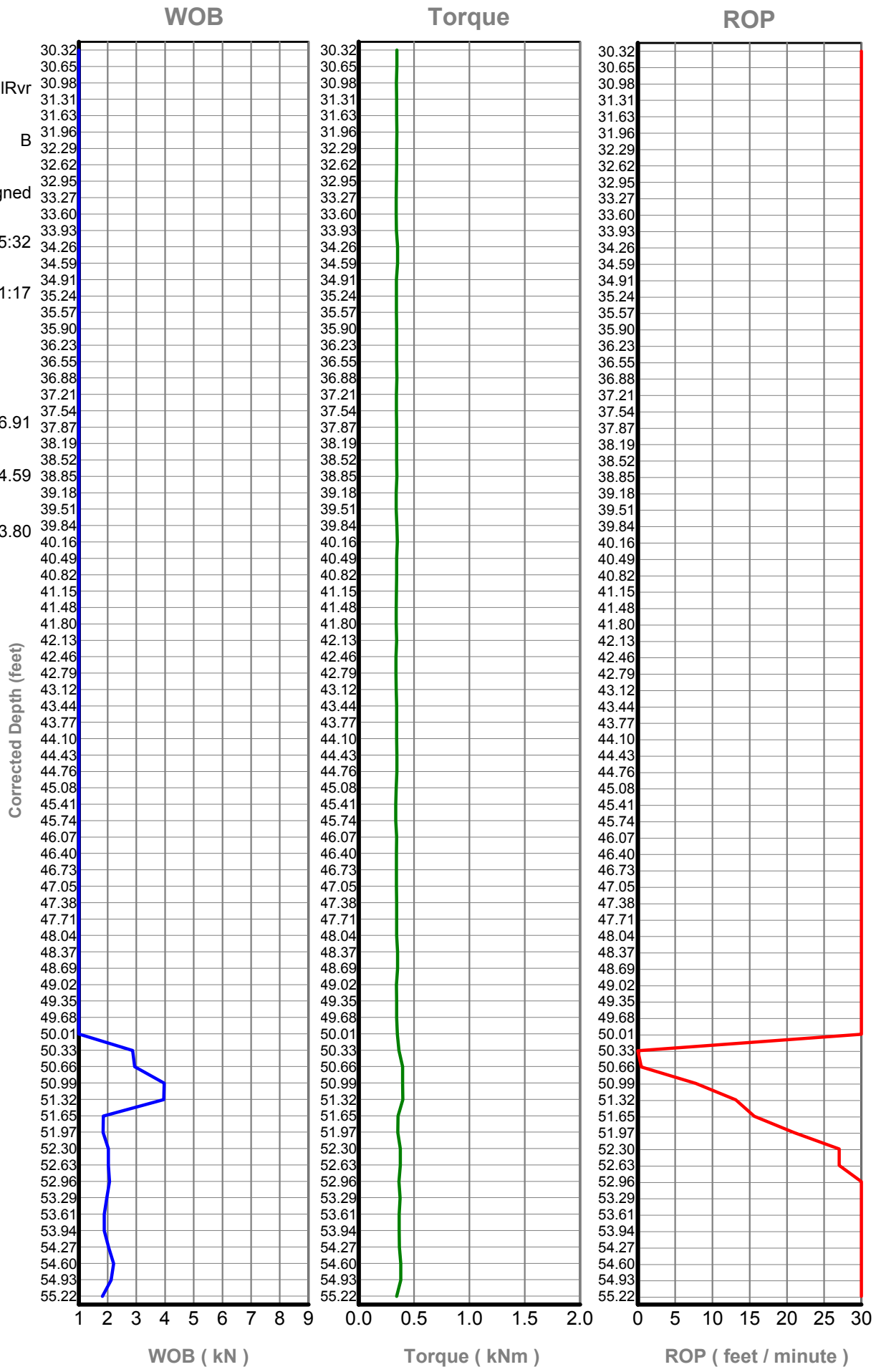
**End Date:**
4/17/2015 21:51:17

**Operator Note:**
'3.8 3.7 Auto Complete'

**Northing:**
371,046.91

**Easting:**
258,024.59

**Tide (feet):**
3.80



## Hole: C3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 5:01:40 | 32.81 | 30.31 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 5:01:40 | 33.14 | 30.64 | 575 | 2.13 | 0.13 | 31.5 |
| 4/18/2015 5:01:41 | 33.46 | 30.96 | 585 | 2.14 | 0.13 | 32.0 |
| 4/18/2015 5:01:41 | 33.79 | 31.29 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:01:42 | 34.12 | 31.62 | 581 | 2.12 | 0.13 | 31.8 |
| 4/18/2015 5:01:43 | 34.45 | 31.95 | 588 | 2.12 | 0.13 | 32.1 |
| 4/18/2015 5:01:43 | 34.78 | 32.28 | 584 | 2.14 | 0.13 | 31.9 |
| 4/18/2015 5:01:44 | 35.11 | 32.61 | 585 | 2.14 | 0.13 | 32.0 |
| 4/18/2015 5:01:44 | 35.43 | 32.93 | 578 | 2.13 | 0.13 | 31.6 |
| 4/18/2015 5:01:45 | 35.76 | 33.26 | 584 | 2.13 | 0.13 | 31.9 |
| 4/18/2015 5:01:46 | 36.09 | 33.59 | 581 | 2.13 | 0.13 | 31.8 |
| 4/18/2015 5:01:46 | 36.42 | 33.92 | 572 | 2.13 | 0.13 | 31.3 |
| 4/18/2015 5:01:47 | 36.75 | 34.25 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:01:47 | 37.07 | 34.57 | 579 | 2.12 | 0.13 | 31.6 |
| 4/18/2015 5:01:48 | 37.40 | 34.90 | 579 | 2.12 | 0.13 | 31.6 |
| 4/18/2015 5:01:49 | 37.73 | 35.23 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 5:01:49 | 38.06 | 35.56 | 572 | 2.13 | 0.13 | 31.3 |
| 4/18/2015 5:01:50 | 38.39 | 35.89 | 577 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:01:51 | 38.71 | 36.21 | 574 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 5:01:51 | 39.04 | 36.54 | 577 | 2.14 | 0.14 | 31.5 |
| 4/18/2015 5:01:52 | 39.37 | 36.87 | 576 | 2.17 | 0.13 | 31.5 |
| 4/18/2015 5:01:53 | 39.70 | 37.20 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:01:53 | 40.03 | 37.53 | 584 | 2.13 | 0.13 | 31.9 |
| 4/18/2015 5:01:54 | 40.35 | 37.85 | 581 | 2.12 | 0.13 | 31.8 |
| 4/18/2015 5:01:54 | 40.68 | 38.18 | 581 | 2.18 | 0.13 | 31.8 |
| 4/18/2015 5:01:55 | 41.01 | 38.51 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:01:56 | 41.34 | 38.84 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:01:56 | 41.67 | 39.17 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:01:57 | 41.99 | 39.49 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:01:57 | 42.32 | 39.82 | 581 | 2.13 | 0.13 | 31.8 |
| 4/18/2015 5:01:58 | 42.65 | 40.15 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:01:58 | 42.98 | 40.48 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:01:59 | 43.31 | 40.81 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:02:00 | 43.64 | 41.14 | 581 | 2.14 | 0.13 | 31.8 |
| 4/18/2015 5:02:01 | 43.96 | 41.46 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:02:01 | 44.29 | 41.79 | 578 | 2.14 | 0.13 | 31.6 |
| 4/18/2015 5:02:02 | 44.62 | 42.12 | 581 | 2.13 | 0.13 | 31.8 |
| 4/18/2015 5:02:03 | 44.95 | 42.45 | 575 | 2.21 | 0.14 | 31.4 |
| 4/18/2015 5:02:41 | 45.28 | 42.78 | 31 | 2.19 | 1.06 | 1.7 |
| 4/18/2015 5:02:42 | 45.60 | 43.10 | 31 | 2.40 | 0.95 | 1.7 |
| 4/18/2015 5:02:43 | 45.93 | 43.43 | 140 | 2.16 | 0.91 | 7.7 |
| 4/18/2015 5:02:43 | 46.26 | 43.76 | 243 | 2.17 | 0.88 | 13.3 |
| 4/18/2015 5:02:44 | 46.59 | 44.09 | 363 | 2.15 | 0.87 | 19.8 |
| 4/18/2015 5:02:45 | 46.92 | 44.42 | 474 | 2.20 | 0.86 | 25.9 |
| 4/18/2015 5:02:51 | 47.24 | 44.74 | 42 | 2.15 | 0.82 | 2.3 |
| 4/18/2015 5:02:51 | 47.57 | 45.07 | 42 | 2.14 | 0.83 | 2.3 |
| 4/18/2015 5:02:52 | 47.90 | 45.40 | 161 | 2.14 | 0.83 | 8.8 |
| 4/18/2015 5:02:53 | 48.23 | 45.73 | 357 | 2.15 | 0.85 | 19.5 |
| 4/18/2015 5:02:54 | 48.56 | 46.06 | 357 | 2.15 | 0.89 | 19.5 |
| 4/18/2015 5:02:54 | 48.88 | 46.38 | 466 | 2.14 | 0.85 | 25.5 |
| 4/18/2015 5:02:56 | 49.21 | 46.71 | 386 | 2.14 | 0.84 | 21.1 |
| 4/18/2015 5:02:57 | 49.54 | 47.04 | 324 | 2.14 | 0.83 | 17.7 |
| 4/18/2015 5:02:57 | 49.87 | 47.37 | 324 | 2.15 | 0.87 | 17.7 |
| 4/18/2015 5:02:58 | 50.20 | 47.70 | 375 | 2.14 | 0.88 | 20.5 |
| 4/18/2015 5:03:01 | 50.53 | 48.03 | 229 | 2.14 | 0.88 | 12.5 |
| 4/18/2015 5:03:02 | 50.85 | 48.35 | 229 | 2.14 | 0.88 | 12.5 |
| 4/18/2015 5:03:02 | 51.18 | 48.68 | 224 | 2.14 | 0.90 | 12.3 |
| 4/18/2015 5:03:03 | 51.51 | 49.01 | 339 | 1.81 | 1.17 | 18.5 |
| 4/18/2015 5:03:06 | 51.84 | 49.34 | 32 | 2.17 | 1.05 | 1.7 |
| 4/18/2015 5:03:07 | 52.17 | 49.67 | 220 | 2.21 | 1.15 | 12.0 |
| 4/18/2015 5:03:09 | 52.49 | 49.99 | 364 | 2.29 | 1.47 | 19.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 5:03:21 | 52.82 | 50.32 | 77 | 2.17 | 0.96 | 4.2 |
| 4/18/2015 | 5:03:22 | 53.15 | 50.65 | 169 | 2.21 | 1.19 | 9.3 |
| 4/18/2015 | 5:03:27 | 53.48 | 50.98 | 111 | 2.22 | 1.12 | 6.1 |
| 4/18/2015 | 5:03:28 | 53.81 | 51.31 | 231 | 2.18 | 1.02 | 12.6 |
| 4/18/2015 | 5:03:28 | 54.13 | 51.63 | 317 | 2.16 | 0.96 | 17.3 |
| 4/18/2015 | 5:03:29 | 54.46 | 51.96 | 399 | 2.17 | 0.93 | 21.8 |
| 4/18/2015 | 5:03:30 | 54.79 | 52.29 | 436 | 2.17 | 0.96 | 23.8 |
| 4/18/2015 | 5:03:34 | 55.12 | 52.62 | 0 | 2.14 | 0.83 | 0.0 |
| 4/18/2015 | 5:03:35 | 55.45 | 52.95 | 156 | 2.17 | 0.93 | 8.5 |
| 4/18/2015 | 5:03:37 | 55.77 | 53.27 | 215 | 2.14 | 0.81 | 11.7 |
| 4/18/2015 | 5:03:38 | 56.10 | 53.60 | 185 | 2.15 | 0.83 | 10.1 |
| 4/18/2015 | 5:03:39 | 56.43 | 53.93 | 185 | 2.29 | 0.87 | 10.1 |
| 4/18/2015 | 5:03:40 | 56.76 | 54.26 | 245 | 2.14 | 0.86 | 13.4 |
| 4/18/2015 | 5:03:41 | 57.09 | 54.59 | 346 | 2.17 | 0.93 | 18.9 |
| 4/18/2015 | 5:03:42 | 57.41 | 54.91 | 346 | 2.17 | 0.96 | 18.9 |
| 4/18/2015 | 5:03:43 | 57.74 | 55.24 | 344 | 2.02 | 0.92 | 18.8 |
| 4/18/2015 | 5:03:45 | 58.00 | 55.50 | 231 | 2.15 | 0.96 | 12.7 |

## C3 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 4:59:58

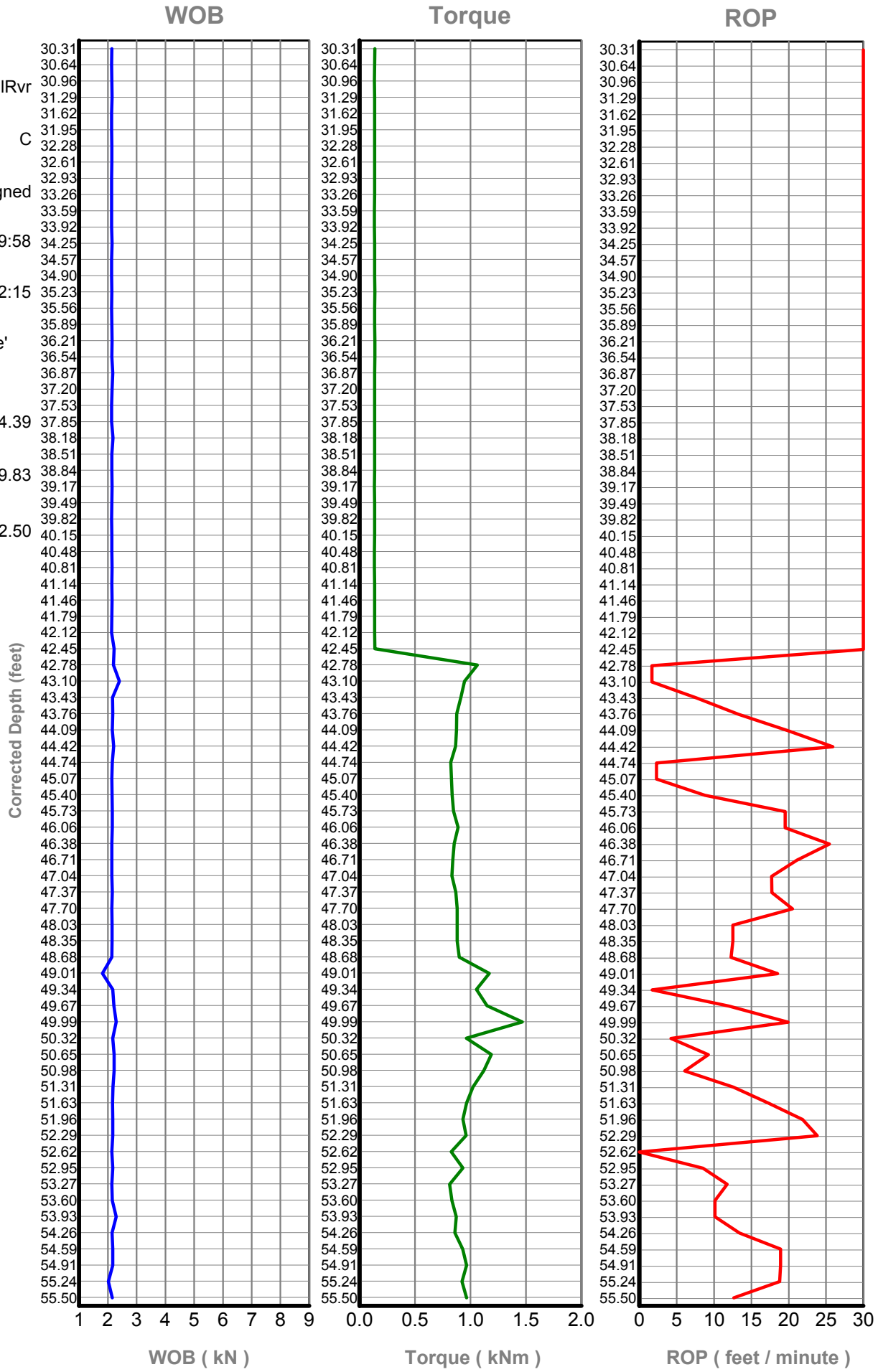
**End Date:**
4/18/2015 5:12:15

**Operator Note:**
'2.5 2.8 c Auto Complete'

**Northing:**
371,124.39

**Easting:**
257,819.83

**Tide (feet):**
2.50



## Hole: C30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:48:31 | 34.12 | 30.32 | 614 | 2.12 | 0.14 | 33.6 |
| 4/17/2015 21:48:32 | 34.45 | 30.65 | 614 | 2.14 | 0.14 | 33.6 |
| 4/17/2015 21:48:32 | 34.78 | 30.98 | 618 | 2.12 | 0.14 | 33.8 |
| 4/17/2015 21:48:33 | 35.11 | 31.31 | 608 | 2.14 | 0.14 | 33.3 |
| 4/17/2015 21:48:34 | 35.43 | 31.63 | 608 | 2.13 | 0.14 | 33.3 |
| 4/17/2015 21:48:34 | 35.76 | 31.96 | 623 | 2.11 | 0.14 | 34.1 |
| 4/17/2015 21:48:35 | 36.09 | 32.29 | 623 | 2.12 | 0.14 | 34.1 |
| 4/17/2015 21:48:36 | 36.42 | 32.62 | 630 | 2.13 | 0.14 | 34.5 |
| 4/17/2015 21:48:36 | 36.75 | 32.95 | 627 | 2.12 | 0.14 | 34.3 |
| 4/17/2015 21:48:37 | 37.07 | 33.27 | 627 | 2.13 | 0.14 | 34.3 |
| 4/17/2015 21:48:37 | 37.40 | 33.60 | 627 | 2.12 | 0.14 | 34.3 |
| 4/17/2015 21:48:38 | 37.73 | 33.93 | 626 | 2.12 | 0.14 | 34.2 |
| 4/17/2015 21:48:39 | 38.06 | 34.26 | 615 | 2.13 | 0.14 | 33.6 |
| 4/17/2015 21:48:39 | 38.39 | 34.59 | 604 | 2.13 | 0.14 | 33.0 |
| 4/17/2015 21:48:40 | 38.71 | 34.91 | 604 | 2.12 | 0.14 | 33.0 |
| 4/17/2015 21:48:40 | 39.04 | 35.24 | 605 | 2.12 | 0.14 | 33.1 |
| 4/17/2015 21:48:41 | 39.37 | 35.57 | 605 | 2.10 | 0.14 | 33.1 |
| 4/17/2015 21:48:41 | 39.70 | 35.90 | 611 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 21:48:42 | 40.03 | 36.23 | 598 | 2.11 | 0.14 | 32.7 |
| 4/17/2015 21:48:42 | 40.35 | 36.55 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:48:43 | 40.68 | 36.88 | 609 | 2.12 | 0.14 | 33.3 |
| 4/17/2015 21:48:43 | 41.01 | 37.21 | 610 | 2.12 | 0.14 | 33.3 |
| 4/17/2015 21:48:44 | 41.34 | 37.54 | 619 | 2.12 | 0.14 | 33.8 |
| 4/17/2015 21:48:45 | 41.67 | 37.87 | 600 | 2.12 | 0.14 | 32.8 |
| 4/17/2015 21:48:45 | 41.99 | 38.19 | 606 | 2.13 | 0.14 | 33.1 |
| 4/17/2015 21:48:46 | 42.32 | 38.52 | 606 | 2.12 | 0.14 | 33.1 |
| 4/17/2015 21:48:47 | 42.65 | 38.85 | 606 | 2.17 | 0.14 | 33.1 |
| 4/17/2015 21:48:47 | 42.98 | 39.18 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:48:48 | 43.31 | 39.51 | 606 | 2.13 | 0.14 | 33.1 |
| 4/17/2015 21:48:48 | 43.64 | 39.84 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:48:49 | 43.96 | 40.16 | 606 | 2.13 | 0.14 | 33.1 |
| 4/17/2015 21:48:50 | 44.29 | 40.49 | 606 | 2.14 | 0.14 | 33.1 |
| 4/17/2015 21:48:50 | 44.62 | 40.82 | 614 | 2.12 | 0.14 | 33.6 |
| 4/17/2015 21:48:51 | 44.95 | 41.15 | 611 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 21:48:51 | 45.28 | 41.48 | 607 | 2.14 | 0.14 | 33.2 |
| 4/17/2015 21:48:52 | 45.60 | 41.80 | 607 | 2.12 | 0.14 | 33.2 |
| 4/17/2015 21:48:52 | 45.93 | 42.13 | 617 | 2.13 | 0.14 | 33.7 |
| 4/17/2015 21:48:53 | 46.26 | 42.46 | 613 | 2.12 | 0.14 | 33.5 |
| 4/17/2015 21:48:53 | 46.59 | 42.79 | 613 | 2.12 | 0.14 | 33.5 |
| 4/17/2015 21:48:54 | 46.92 | 43.12 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:48:55 | 47.24 | 43.44 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:48:55 | 47.57 | 43.77 | 609 | 2.14 | 0.14 | 33.3 |
| 4/17/2015 21:48:56 | 47.90 | 44.10 | 619 | 2.12 | 0.14 | 33.8 |
| 4/17/2015 21:48:57 | 48.23 | 44.43 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:48:57 | 48.56 | 44.76 | 613 | 2.13 | 0.14 | 33.5 |
| 4/17/2015 21:48:58 | 48.88 | 45.08 | 613 | 2.12 | 0.14 | 33.5 |
| 4/17/2015 21:48:58 | 49.21 | 45.41 | 616 | 2.11 | 0.14 | 33.7 |
| 4/17/2015 21:48:59 | 49.54 | 45.74 | 613 | 2.12 | 0.14 | 33.5 |
| 4/17/2015 21:49:00 | 49.87 | 46.07 | 609 | 2.13 | 0.14 | 33.3 |
| 4/17/2015 21:49:00 | 50.20 | 46.40 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:49:01 | 50.53 | 46.73 | 613 | 2.13 | 0.14 | 33.5 |
| 4/17/2015 21:49:01 | 50.85 | 47.05 | 606 | 2.25 | 0.13 | 33.2 |
| 4/17/2015 21:49:02 | 51.18 | 47.38 | 610 | 2.13 | 0.14 | 33.4 |
| 4/17/2015 21:49:02 | 51.51 | 47.71 | 616 | 2.12 | 0.14 | 33.7 |
| 4/17/2015 21:49:03 | 51.84 | 48.04 | 610 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 21:49:03 | 52.17 | 48.37 | 613 | 2.13 | 0.14 | 33.5 |
| 4/17/2015 21:49:04 | 52.49 | 48.69 | 613 | 2.12 | 0.14 | 33.5 |
| 4/17/2015 21:49:05 | 52.82 | 49.02 | 610 | 2.12 | 0.14 | 33.4 |
| 4/17/2015 21:49:05 | 53.15 | 49.35 | 610 | 2.14 | 0.14 | 33.4 |
| 4/17/2015 21:49:06 | 53.48 | 49.68 | 603 | 2.14 | 0.14 | 33.0 |
| 4/17/2015 21:49:33 | 53.81 | 50.01 | 0 | 2.16 | 0.93 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:49:34 | 54.13 | 50.33 | 139 | 2.15 | 1.04 | 7.6 |
| 4/17/2015 | 21:49:35 | 54.46 | 50.66 | 231 | 2.12 | 0.89 | 12.6 |
| 4/17/2015 | 21:49:35 | 54.79 | 50.99 | 231 | 2.13 | 0.86 | 12.6 |
| 4/17/2015 | 21:49:36 | 55.12 | 51.32 | 341 | 2.14 | 0.86 | 18.6 |
| 4/17/2015 | 21:49:36 | 55.45 | 51.65 | 456 | 2.14 | 0.86 | 24.9 |
| 4/17/2015 | 21:49:38 | 55.77 | 51.97 | 538 | 2.16 | 0.94 | 29.4 |
| 4/17/2015 | 21:49:38 | 56.10 | 52.30 | 538 | 2.17 | 0.96 | 29.4 |
| 4/17/2015 | 21:49:39 | 56.43 | 52.63 | 535 | 2.17 | 0.95 | 29.3 |
| 4/17/2015 | 21:49:41 | 56.76 | 52.96 | 390 | 2.14 | 0.88 | 21.3 |
| 4/17/2015 | 21:49:41 | 57.09 | 53.29 | 364 | 2.21 | 0.99 | 19.9 |
| 4/17/2015 | 21:49:48 | 57.41 | 53.61 | 0 | 2.17 | 1.36 | 0.0 |
| 4/17/2015 | 21:49:49 | 57.74 | 53.94 | 90 | 2.15 | 0.92 | 4.9 |
| 4/17/2015 | 21:49:50 | 58.07 | 54.27 | 179 | 2.21 | 1.13 | 9.8 |
| 4/17/2015 | 21:49:51 | 58.40 | 54.60 | 327 | 2.22 | 1.20 | 17.9 |
| 4/17/2015 | 21:49:52 | 58.73 | 54.93 | 375 | 2.20 | 1.13 | 20.5 |
| 4/17/2015 | 21:49:53 | 59.06 | 55.26 | 338 | 2.20 | 1.14 | 18.5 |
| 4/17/2015 | 21:49:53 | 59.15 | 55.35 | 338 | 2.20 | 1.14 | 18.5 |

## C30 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:46:31

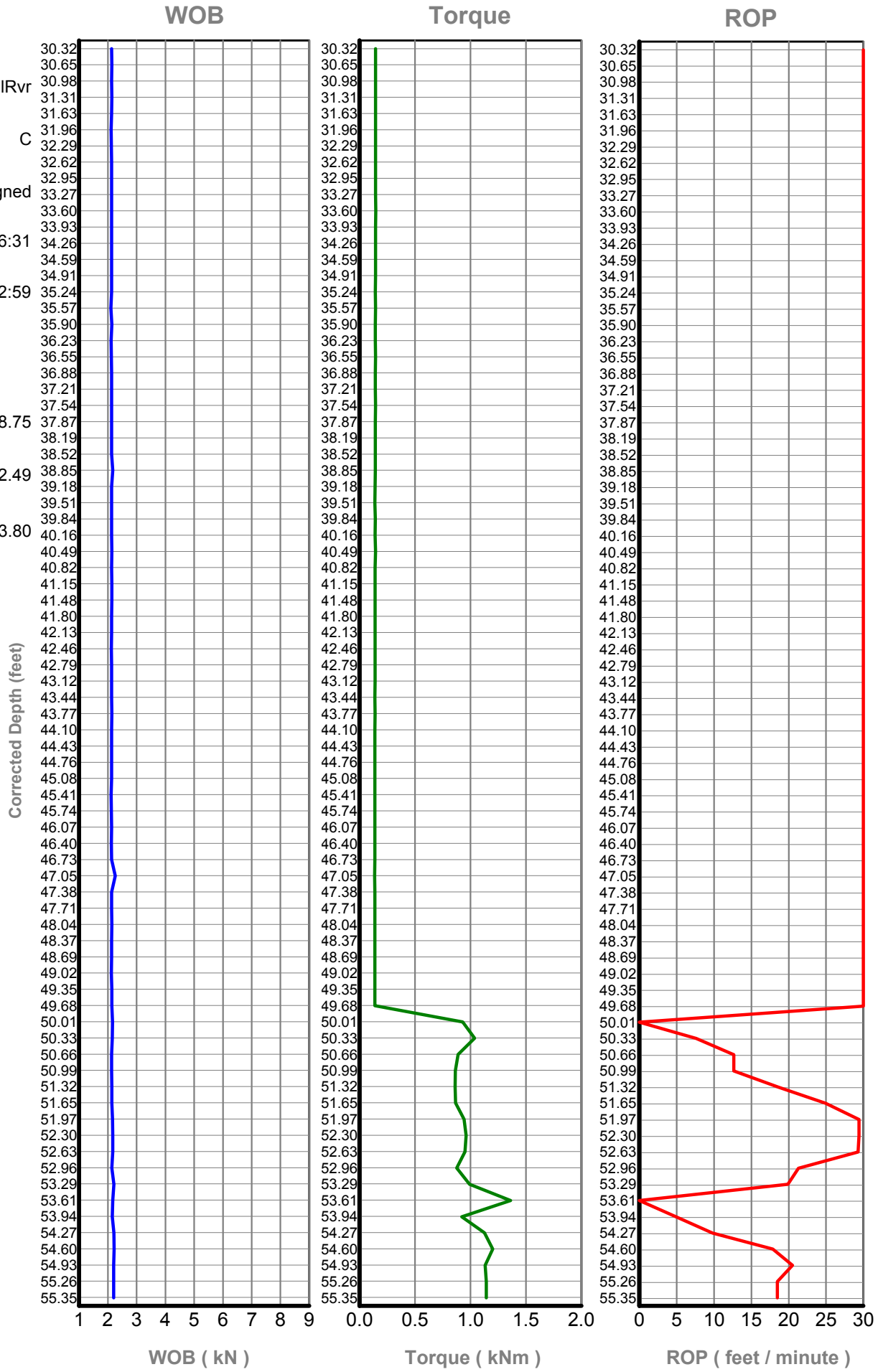
**End Date:**
4/17/2015 21:52:59

**Operator Note:**
'3.8 3.72 c Auto Complete'

**Northing:**
371,078.75

**Easting:**
258,092.49

**Tide (feet):**
3.80



## Hole: C31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:25:03 | 30.84 | 30.04 | 1,107 | 0.46 | 0.31 | 60.5 |
| 4/17/2015 18:25:03 | 31.17 | 30.37 | 1,104 | 0.45 | 0.32 | 60.4 |
| 4/17/2015 18:25:04 | 31.50 | 30.70 | 1,104 | 0.45 | 0.32 | 60.4 |
| 4/17/2015 18:25:04 | 31.82 | 31.02 | 1,104 | 0.45 | 0.32 | 60.4 |
| 4/17/2015 18:25:04 | 32.15 | 31.35 | 1,101 | 0.46 | 0.33 | 60.2 |
| 4/17/2015 18:25:05 | 32.48 | 31.68 | 1,101 | 0.46 | 0.33 | 60.2 |
| 4/17/2015 18:25:05 | 32.81 | 32.01 | 1,101 | 0.46 | 0.32 | 60.2 |
| 4/17/2015 18:25:05 | 33.14 | 32.34 | 1,104 | 0.46 | 0.32 | 60.4 |
| 4/17/2015 18:25:06 | 33.46 | 32.66 | 1,104 | 0.46 | 0.32 | 60.4 |
| 4/17/2015 18:25:06 | 33.79 | 32.99 | 1,103 | 0.46 | 0.32 | 60.3 |
| 4/17/2015 18:25:06 | 34.12 | 33.32 | 1,113 | 0.45 | 0.32 | 60.9 |
| 4/17/2015 18:25:07 | 34.45 | 33.65 | 1,113 | 0.45 | 0.32 | 60.9 |
| 4/17/2015 18:25:07 | 34.78 | 33.98 | 1,113 | 0.45 | 0.32 | 60.9 |
| 4/17/2015 18:25:07 | 35.11 | 34.31 | 1,113 | 0.45 | 0.32 | 60.9 |
| 4/17/2015 18:25:08 | 35.43 | 34.63 | 1,113 | 0.45 | 0.32 | 60.9 |
| 4/17/2015 18:25:08 | 35.76 | 34.96 | 1,116 | 0.45 | 0.31 | 61.0 |
| 4/17/2015 18:25:09 | 36.09 | 35.29 | 1,116 | 0.45 | 0.31 | 61.0 |
| 4/17/2015 18:25:09 | 36.42 | 35.62 | 1,116 | 0.45 | 0.32 | 61.0 |
| 4/17/2015 18:25:09 | 36.75 | 35.95 | 1,116 | 0.45 | 0.32 | 61.0 |
| 4/17/2015 18:25:09 | 37.07 | 36.27 | 1,106 | 0.45 | 0.32 | 60.5 |
| 4/17/2015 18:25:10 | 37.40 | 36.60 | 1,123 | 0.45 | 0.32 | 61.4 |
| 4/17/2015 18:25:10 | 37.73 | 36.93 | 1,123 | 0.45 | 0.32 | 61.4 |
| 4/17/2015 18:25:10 | 38.06 | 37.26 | 1,110 | 0.45 | 0.32 | 60.7 |
| 4/17/2015 18:25:11 | 38.39 | 37.59 | 1,120 | 0.46 | 0.31 | 61.2 |
| 4/17/2015 18:25:11 | 38.71 | 37.91 | 1,120 | 0.46 | 0.31 | 61.2 |
| 4/17/2015 18:25:11 | 39.04 | 38.24 | 1,117 | 0.45 | 0.32 | 61.1 |
| 4/17/2015 18:25:12 | 39.37 | 38.57 | 1,117 | 0.45 | 0.32 | 61.1 |
| 4/17/2015 18:25:12 | 39.70 | 38.90 | 1,121 | 0.45 | 0.32 | 61.3 |
| 4/17/2015 18:25:12 | 40.03 | 39.23 | 1,074 | 0.46 | 0.32 | 58.7 |
| 4/17/2015 18:25:13 | 40.35 | 39.55 | 1,074 | 0.46 | 0.32 | 58.7 |
| 4/17/2015 18:25:13 | 40.68 | 39.88 | 1,074 | 0.45 | 0.32 | 58.7 |
| 4/17/2015 18:25:13 | 41.01 | 40.21 | 1,074 | 0.45 | 0.32 | 58.7 |
| 4/17/2015 18:25:13 | 41.34 | 40.54 | 1,105 | 0.45 | 0.32 | 60.4 |
| 4/17/2015 18:25:14 | 41.67 | 40.87 | 1,096 | 0.45 | 0.32 | 59.9 |
| 4/17/2015 18:25:14 | 41.99 | 41.19 | 1,096 | 0.45 | 0.32 | 59.9 |
| 4/17/2015 18:25:14 | 42.32 | 41.52 | 1,100 | 0.19 | 0.32 | 60.1 |
| 4/17/2015 18:25:15 | 42.65 | 41.85 | 1,098 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 18:25:15 | 42.98 | 42.18 | 1,098 | 0.45 | 0.32 | 60.1 |
| 4/17/2015 18:25:15 | 43.31 | 42.51 | 1,131 | 0.48 | 0.32 | 61.9 |
| 4/17/2015 18:25:16 | 43.64 | 42.84 | 1,131 | 0.48 | 0.32 | 61.9 |
| 4/17/2015 18:25:16 | 43.96 | 43.16 | 1,110 | 0.45 | 0.32 | 60.7 |
| 4/17/2015 18:25:16 | 44.29 | 43.49 | 1,082 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 18:25:17 | 44.62 | 43.82 | 1,082 | 0.45 | 0.32 | 59.2 |
| 4/17/2015 18:25:17 | 44.95 | 44.15 | 1,082 | 0.45 | 0.33 | 59.2 |
| 4/17/2015 18:25:18 | 45.28 | 44.48 | 1,084 | 0.45 | 0.34 | 59.3 |
| 4/17/2015 18:25:18 | 45.60 | 44.80 | 1,084 | 0.45 | 0.34 | 59.3 |
| 4/17/2015 18:25:18 | 45.93 | 45.13 | 1,031 | 0.45 | 0.34 | 56.4 |
| 4/17/2015 18:25:19 | 46.26 | 45.46 | 990 | 0.45 | 0.34 | 54.1 |
| 4/17/2015 18:25:19 | 46.59 | 45.79 | 990 | 0.45 | 0.34 | 54.1 |
| 4/17/2015 18:25:20 | 46.92 | 46.12 | 937 | 0.45 | 0.36 | 51.2 |
| 4/17/2015 18:25:20 | 47.24 | 46.44 | 937 | 0.45 | 0.36 | 51.2 |
| 4/17/2015 18:25:35 | 47.57 | 46.77 | 49 | 3.40 | 0.48 | 2.7 |
| 4/17/2015 18:25:36 | 47.90 | 47.10 | 185 | 3.64 | 0.47 | 10.1 |
| 4/17/2015 18:25:39 | 48.23 | 47.43 | 134 | 4.64 | 0.53 | 7.3 |
| 4/17/2015 18:25:45 | 48.56 | 47.76 | 22 | 4.16 | 0.51 | 1.2 |
| 4/17/2015 18:26:01 | 48.88 | 48.08 | 62 | 4.28 | 0.45 | 3.4 |
| 4/17/2015 18:26:06 | 49.21 | 48.41 | 68 | 4.36 | 0.49 | 3.7 |
| 4/17/2015 18:26:10 | 49.54 | 48.74 | 89 | 4.53 | 0.47 | 4.9 |
| 4/17/2015 18:26:14 | 49.87 | 49.07 | 79 | 4.05 | 0.49 | 4.3 |
| 4/17/2015 18:26:20 | 50.20 | 49.40 | 61 | 4.16 | 0.49 | 3.4 |
| 4/17/2015 18:26:25 | 50.53 | 49.73 | 66 | 4.27 | 0.46 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 18:26:29 | 50.85 | 50.05 | 90 | 4.43 | 0.48 | 4.9 |
| 4/17/2015 | 18:26:34 | 51.18 | 50.38 | 75 | 4.49 | 0.45 | 4.1 |
| 4/17/2015 | 18:26:39 | 51.51 | 50.71 | 58 | 4.36 | 0.49 | 3.2 |
| 4/17/2015 | 18:26:45 | 51.84 | 51.04 | 70 | 4.09 | 0.47 | 3.8 |
| 4/17/2015 | 18:26:48 | 52.06 | 51.26 | 70 | 4.91 | 0.49 | 3.8 |

## C31 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:23:34

**End Date:**
4/17/2015 18:27:31

**Operator Note:**
'0.8 1.0 a Auto Complete'

**Northing:**
371,109.40

**Easting:**
258,161.50

**Tide (feet):**
0.80



## Hole: C32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:23:32 | 30.84 | 30.04 | 1,038 | 0.31 | 0.34 | 56.7 |
| 4/17/2015 18:23:33 | 31.17 | 30.37 | 1,038 | 0.31 | 0.34 | 56.7 |
| 4/17/2015 18:23:33 | 31.50 | 30.70 | 1,035 | 0.31 | 0.34 | 56.6 |
| 4/17/2015 18:23:33 | 31.82 | 31.02 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 18:23:34 | 32.15 | 31.35 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 18:23:34 | 32.48 | 31.68 | 1,035 | 0.30 | 0.34 | 56.6 |
| 4/17/2015 18:23:34 | 32.81 | 32.01 | 1,013 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:35 | 33.14 | 32.34 | 1,013 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:35 | 33.46 | 32.66 | 1,013 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:36 | 33.79 | 32.99 | 1,011 | 0.31 | 0.34 | 55.3 |
| 4/17/2015 18:23:36 | 34.12 | 33.32 | 1,011 | 0.31 | 0.34 | 55.3 |
| 4/17/2015 18:23:36 | 34.45 | 33.65 | 997 | 0.30 | 0.34 | 54.5 |
| 4/17/2015 18:23:37 | 34.78 | 33.98 | 997 | 0.31 | 0.34 | 54.5 |
| 4/17/2015 18:23:37 | 35.11 | 34.31 | 997 | 0.31 | 0.34 | 54.5 |
| 4/17/2015 18:23:37 | 35.43 | 34.63 | 1,016 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 18:23:38 | 35.76 | 34.96 | 1,001 | 0.30 | 0.35 | 54.7 |
| 4/17/2015 18:23:38 | 36.09 | 35.29 | 1,028 | 0.43 | 0.34 | 56.2 |
| 4/17/2015 18:23:39 | 36.42 | 35.62 | 1,028 | 0.43 | 0.34 | 56.2 |
| 4/17/2015 18:23:39 | 36.75 | 35.95 | 1,025 | 0.31 | 0.33 | 56.1 |
| 4/17/2015 18:23:39 | 37.07 | 36.27 | 1,045 | 0.30 | 0.35 | 57.1 |
| 4/17/2015 18:23:40 | 37.40 | 36.60 | 1,045 | 0.30 | 0.35 | 57.1 |
| 4/17/2015 18:23:40 | 37.73 | 36.93 | 1,018 | 0.31 | 0.35 | 55.6 |
| 4/17/2015 18:23:40 | 38.06 | 37.26 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 18:23:41 | 38.39 | 37.59 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 18:23:41 | 38.71 | 37.91 | 1,020 | 0.30 | 0.35 | 55.8 |
| 4/17/2015 18:23:41 | 39.04 | 38.24 | 997 | 0.30 | 0.34 | 54.5 |
| 4/17/2015 18:23:42 | 39.37 | 38.57 | 997 | 0.30 | 0.34 | 54.5 |
| 4/17/2015 18:23:42 | 39.70 | 38.90 | 997 | 0.30 | 0.35 | 54.5 |
| 4/17/2015 18:23:42 | 40.03 | 39.23 | 987 | 0.31 | 0.34 | 54.0 |
| 4/17/2015 18:23:43 | 40.35 | 39.55 | 987 | 0.31 | 0.34 | 54.0 |
| 4/17/2015 18:23:43 | 40.68 | 39.88 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/17/2015 18:23:43 | 41.01 | 40.21 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/17/2015 18:23:44 | 41.34 | 40.54 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/17/2015 18:23:44 | 41.67 | 40.87 | 1,002 | 0.30 | 0.35 | 54.8 |
| 4/17/2015 18:23:44 | 41.99 | 41.19 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/17/2015 18:23:45 | 42.32 | 41.52 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/17/2015 18:23:45 | 42.65 | 41.85 | 1,031 | 0.31 | 0.34 | 56.4 |
| 4/17/2015 18:23:45 | 42.98 | 42.18 | 1,018 | 0.30 | 0.34 | 55.7 |
| 4/17/2015 18:23:46 | 43.31 | 42.51 | 1,018 | 0.30 | 0.34 | 55.7 |
| 4/17/2015 18:23:46 | 43.64 | 42.84 | 1,018 | 0.30 | 0.34 | 55.7 |
| 4/17/2015 18:23:46 | 43.96 | 43.16 | 1,014 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:47 | 44.29 | 43.49 | 1,014 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:47 | 44.62 | 43.82 | 1,014 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 18:23:48 | 44.95 | 44.15 | 1,023 | 0.30 | 0.34 | 55.9 |
| 4/17/2015 18:23:48 | 45.28 | 44.48 | 1,023 | 0.30 | 0.34 | 55.9 |
| 4/17/2015 18:23:48 | 45.60 | 44.80 | 1,023 | 0.31 | 0.34 | 55.9 |
| 4/17/2015 18:23:49 | 45.93 | 45.13 | 1,023 | 0.31 | 0.34 | 55.9 |
| 4/17/2015 18:23:49 | 46.26 | 45.46 | 1,023 | 0.31 | 0.34 | 55.9 |
| 4/17/2015 18:23:49 | 46.59 | 45.79 | 1,023 | 0.31 | 0.36 | 55.9 |
| 4/17/2015 18:24:01 | 46.92 | 46.12 | 28 | 4.39 | 0.43 | 1.5 |
| 4/17/2015 18:24:15 | 47.24 | 46.44 | 55 | 3.16 | 0.42 | 3.0 |
| 4/17/2015 18:24:21 | 47.57 | 46.77 | 61 | 3.87 | 0.42 | 3.3 |
| 4/17/2015 18:24:26 | 47.90 | 47.10 | 69 | 3.69 | 0.40 | 3.8 |
| 4/17/2015 18:24:34 | 48.23 | 47.43 | 46 | 4.21 | 0.42 | 2.5 |
| 4/17/2015 18:24:35 | 48.31 | 47.51 | 49 | 3.72 | 0.42 | 2.7 |

## C32 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:21:36

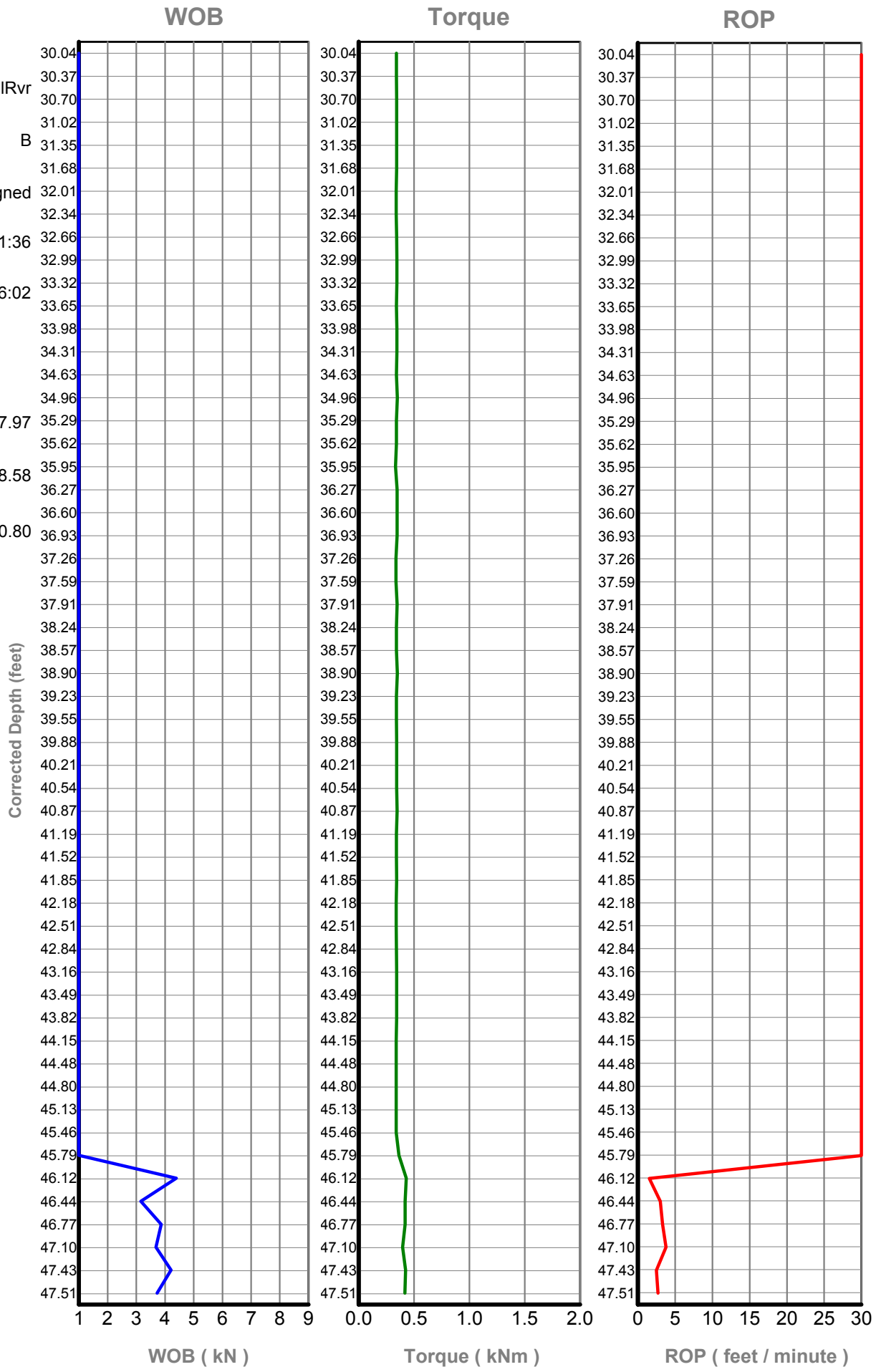
**End Date:**
4/17/2015 18:26:02

**Operator Note:**
'0.8 1.0 b Rock @ 47"

**Northing:**
371,137.97

**Easting:**
258,228.58

**Tide (feet):**
0.80



## Hole: C33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:24:11 | 30.84 | 30.04 | 604 | 2.10 | 0.26 | 33.0 |
| 4/17/2015 18:24:12 | 31.17 | 30.37 | 614 | 2.11 | 0.26 | 33.6 |
| 4/17/2015 18:24:12 | 31.50 | 30.70 | 599 | 2.11 | 0.26 | 32.8 |
| 4/17/2015 18:24:13 | 31.82 | 31.02 | 606 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:24:14 | 32.15 | 31.35 | 619 | 2.12 | 0.26 | 33.9 |
| 4/17/2015 18:24:14 | 32.48 | 31.68 | 613 | 2.11 | 0.26 | 33.5 |
| 4/17/2015 18:24:15 | 32.81 | 32.01 | 617 | 2.11 | 0.26 | 33.7 |
| 4/17/2015 18:24:15 | 33.14 | 32.34 | 613 | 2.11 | 0.26 | 33.5 |
| 4/17/2015 18:24:16 | 33.46 | 32.66 | 613 | 2.10 | 0.26 | 33.5 |
| 4/17/2015 18:24:16 | 33.79 | 32.99 | 613 | 2.11 | 0.26 | 33.5 |
| 4/17/2015 18:24:17 | 34.12 | 33.32 | 610 | 2.11 | 0.26 | 33.4 |
| 4/17/2015 18:24:18 | 34.45 | 33.65 | 610 | 2.11 | 0.26 | 33.4 |
| 4/17/2015 18:24:18 | 34.78 | 33.98 | 610 | 2.11 | 0.26 | 33.4 |
| 4/17/2015 18:24:19 | 35.11 | 34.31 | 597 | 2.15 | 0.26 | 32.7 |
| 4/17/2015 18:24:19 | 35.43 | 34.63 | 597 | 2.10 | 0.26 | 32.7 |
| 4/17/2015 18:24:20 | 35.76 | 34.96 | 604 | 2.10 | 0.26 | 33.0 |
| 4/17/2015 18:24:20 | 36.09 | 35.29 | 605 | 2.12 | 0.26 | 33.1 |
| 4/17/2015 18:24:21 | 36.42 | 35.62 | 601 | 2.10 | 0.26 | 32.9 |
| 4/17/2015 18:24:22 | 36.75 | 35.95 | 601 | 2.11 | 0.26 | 32.9 |
| 4/17/2015 18:24:23 | 37.07 | 36.27 | 607 | 2.10 | 0.26 | 33.2 |
| 4/17/2015 18:24:23 | 37.40 | 36.60 | 606 | 2.10 | 0.26 | 33.2 |
| 4/17/2015 18:24:24 | 37.73 | 36.93 | 610 | 2.10 | 0.26 | 33.4 |
| 4/17/2015 18:24:24 | 38.06 | 37.26 | 610 | 2.10 | 0.25 | 33.4 |
| 4/17/2015 18:24:25 | 38.39 | 37.59 | 610 | 2.10 | 0.26 | 33.4 |
| 4/17/2015 18:24:25 | 38.71 | 37.91 | 610 | 2.10 | 0.26 | 33.4 |
| 4/17/2015 18:24:26 | 39.04 | 38.24 | 610 | 2.10 | 0.26 | 33.4 |
| 4/17/2015 18:24:26 | 39.37 | 38.57 | 610 | 2.11 | 0.26 | 33.4 |
| 4/17/2015 18:24:27 | 39.70 | 38.90 | 606 | 2.11 | 0.26 | 33.2 |
| 4/17/2015 18:24:28 | 40.03 | 39.23 | 610 | 2.12 | 0.25 | 33.4 |
| 4/17/2015 18:24:28 | 40.35 | 39.55 | 607 | 2.10 | 0.25 | 33.2 |
| 4/17/2015 18:24:29 | 40.68 | 39.88 | 607 | 2.11 | 0.25 | 33.2 |
| 4/17/2015 18:24:29 | 41.01 | 40.21 | 607 | 2.11 | 0.26 | 33.2 |
| 4/17/2015 18:24:30 | 41.34 | 40.54 | 607 | 2.10 | 0.26 | 33.2 |
| 4/17/2015 18:24:30 | 41.67 | 40.87 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:24:31 | 41.99 | 41.19 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:24:32 | 42.32 | 41.52 | 607 | 2.11 | 0.25 | 33.2 |
| 4/17/2015 18:24:33 | 42.65 | 41.85 | 607 | 2.12 | 0.25 | 33.2 |
| 4/17/2015 18:24:33 | 42.98 | 42.18 | 600 | 2.11 | 0.25 | 32.8 |
| 4/17/2015 18:24:34 | 43.31 | 42.51 | 604 | 2.11 | 0.26 | 33.0 |
| 4/17/2015 18:24:34 | 43.64 | 42.84 | 595 | 2.11 | 0.25 | 32.5 |
| 4/17/2015 18:24:35 | 43.96 | 43.16 | 595 | 2.11 | 0.25 | 32.5 |
| 4/17/2015 18:24:35 | 44.29 | 43.49 | 600 | 2.12 | 0.25 | 32.8 |
| 4/17/2015 18:24:36 | 44.62 | 43.82 | 601 | 2.23 | 0.26 | 32.9 |
| 4/17/2015 18:24:37 | 44.95 | 44.15 | 601 | 2.11 | 0.26 | 32.8 |
| 4/17/2015 18:24:37 | 45.28 | 44.48 | 608 | 2.12 | 0.25 | 33.2 |
| 4/17/2015 18:25:13 | 45.60 | 44.80 | 0 | 2.27 | 0.89 | 0.0 |
| 4/17/2015 18:25:18 | 45.93 | 45.13 | 57 | 2.31 | 1.08 | 3.1 |
| 4/17/2015 18:25:25 | 46.26 | 45.46 | 52 | 2.33 | 1.21 | 2.9 |
| 4/17/2015 18:25:40 | 46.59 | 45.79 | 15 | 2.34 | 1.11 | 0.8 |
| 4/17/2015 18:26:24 | 46.92 | 46.12 | 20 | 2.33 | 1.12 | 1.1 |
| 4/17/2015 18:26:41 | 47.24 | 46.44 | 23 | 2.32 | 1.19 | 1.3 |
| 4/17/2015 18:26:50 | 47.48 | 46.68 | 29 | 2.31 | 1.30 | 1.6 |

## C33 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:22:41

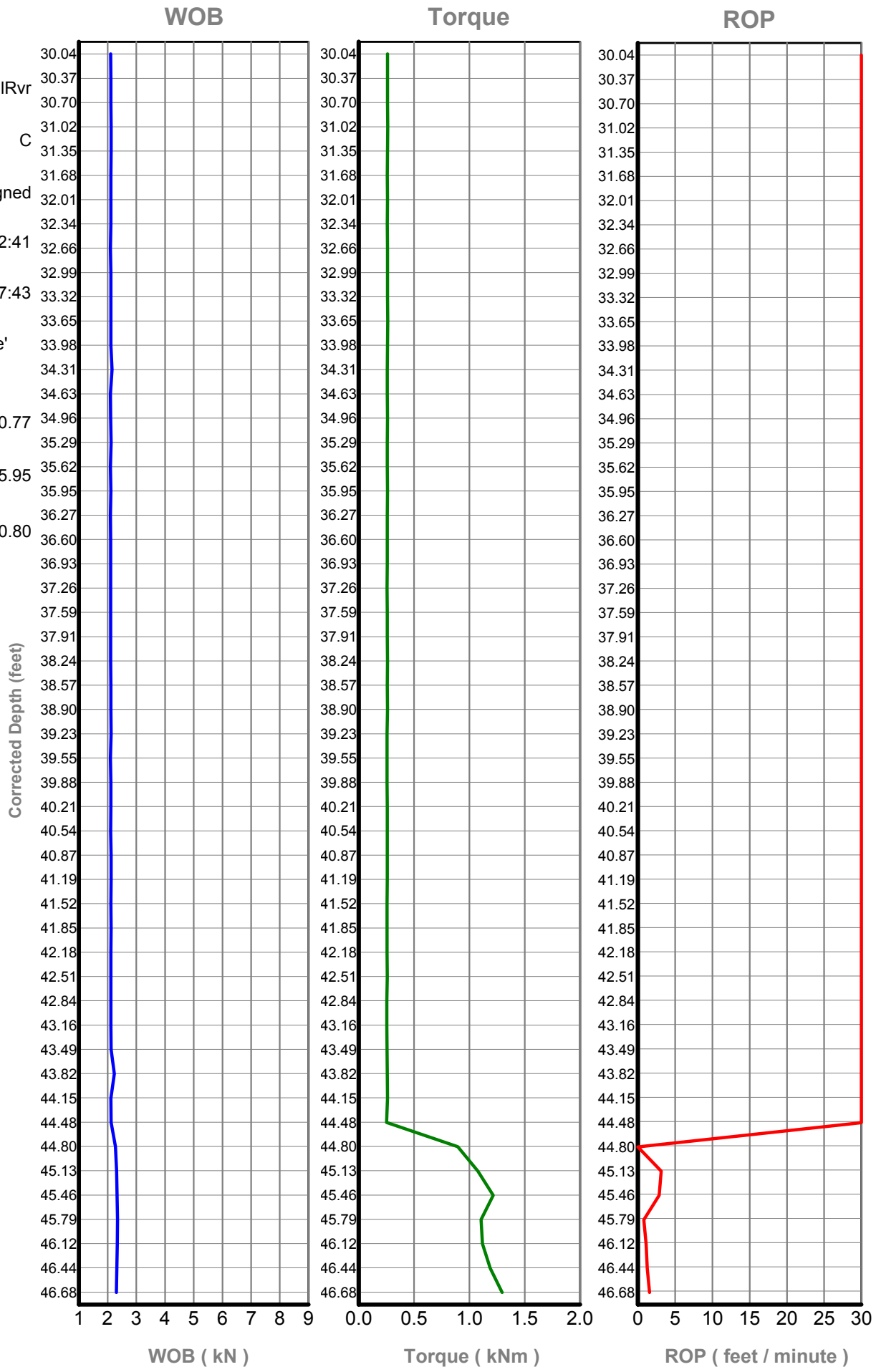
**End Date:**
4/17/2015 18:27:43

**Operator Note:**
'0.8 1.0 c Auto Complete'

**Northing:**
371,170.77

**Easting:**
258,295.95

**Tide (feet):**
0.80



## Hole: C34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:30:10 | 31.82 | 30.12 | 1,019 | 1.45 | 0.33 | 55.7 |
| 4/17/2015 17:30:10 | 32.15 | 30.45 | 1,019 | 1.45 | 0.33 | 55.7 |
| 4/17/2015 17:30:10 | 32.48 | 30.78 | 1,031 | 1.45 | 0.32 | 56.4 |
| 4/17/2015 17:30:11 | 32.81 | 31.11 | 1,022 | 1.44 | 0.32 | 55.9 |
| 4/17/2015 17:30:11 | 33.14 | 31.44 | 1,022 | 1.44 | 0.32 | 55.9 |
| 4/17/2015 17:30:11 | 33.46 | 31.76 | 1,054 | 1.44 | 0.31 | 57.6 |
| 4/17/2015 17:30:12 | 33.79 | 32.09 | 1,045 | 1.45 | 0.32 | 57.1 |
| 4/17/2015 17:30:12 | 34.12 | 32.42 | 1,045 | 1.45 | 0.32 | 57.1 |
| 4/17/2015 17:30:12 | 34.45 | 32.75 | 1,038 | 1.45 | 0.32 | 56.8 |
| 4/17/2015 17:30:13 | 34.78 | 33.08 | 1,029 | 1.45 | 0.32 | 56.3 |
| 4/17/2015 17:30:13 | 35.11 | 33.41 | 1,029 | 1.45 | 0.32 | 56.3 |
| 4/17/2015 17:30:13 | 35.43 | 33.73 | 1,035 | 1.44 | 0.32 | 56.6 |
| 4/17/2015 17:30:13 | 35.76 | 34.06 | 1,035 | 1.44 | 0.32 | 56.6 |
| 4/17/2015 17:30:14 | 36.09 | 34.39 | 1,035 | 1.44 | 0.32 | 56.6 |
| 4/17/2015 17:30:14 | 36.42 | 34.72 | 1,033 | 1.45 | 0.32 | 56.5 |
| 4/17/2015 17:30:15 | 36.75 | 35.05 | 1,036 | 1.45 | 0.31 | 56.7 |
| 4/17/2015 17:30:15 | 37.07 | 35.37 | 1,036 | 1.45 | 0.31 | 56.7 |
| 4/17/2015 17:30:15 | 37.40 | 35.70 | 1,042 | 1.43 | 0.31 | 57.0 |
| 4/17/2015 17:30:16 | 37.73 | 36.03 | 1,048 | 1.45 | 0.40 | 57.3 |
| 4/17/2015 17:30:16 | 38.06 | 36.36 | 1,048 | 1.45 | 0.40 | 57.3 |
| 4/17/2015 17:30:17 | 38.39 | 36.69 | 1,053 | 1.45 | 0.32 | 57.6 |
| 4/17/2015 17:30:17 | 38.71 | 37.01 | 1,028 | 1.45 | 0.31 | 56.2 |
| 4/17/2015 17:30:17 | 39.04 | 37.34 | 1,028 | 1.45 | 0.31 | 56.2 |
| 4/17/2015 17:30:18 | 39.37 | 37.67 | 1,028 | 1.43 | 0.31 | 56.2 |
| 4/17/2015 17:30:18 | 39.70 | 38.00 | 1,028 | 1.43 | 0.31 | 56.2 |
| 4/17/2015 17:30:18 | 40.03 | 38.33 | 1,054 | 1.43 | 0.32 | 57.6 |
| 4/17/2015 17:30:19 | 40.35 | 38.65 | 1,057 | 1.45 | 0.32 | 57.8 |
| 4/17/2015 17:30:19 | 40.68 | 38.98 | 1,057 | 1.45 | 0.32 | 57.8 |
| 4/17/2015 17:30:19 | 41.01 | 39.31 | 1,048 | 1.45 | 0.33 | 57.3 |
| 4/17/2015 17:30:20 | 41.34 | 39.64 | 1,031 | 1.43 | 0.32 | 56.4 |
| 4/17/2015 17:30:20 | 41.67 | 39.97 | 1,032 | 1.44 | 0.32 | 56.4 |
| 4/17/2015 17:30:21 | 41.99 | 40.29 | 1,032 | 1.44 | 0.32 | 56.4 |
| 4/17/2015 17:30:21 | 42.32 | 40.62 | 980 | 1.45 | 0.33 | 53.6 |
| 4/17/2015 17:30:21 | 42.65 | 40.95 | 930 | 1.45 | 0.34 | 50.9 |
| 4/17/2015 17:30:22 | 42.98 | 41.28 | 882 | 1.43 | 0.34 | 48.2 |
| 4/17/2015 17:30:22 | 43.31 | 41.61 | 839 | 1.43 | 0.34 | 45.9 |
| 4/17/2015 17:30:23 | 43.64 | 41.94 | 812 | 1.45 | 0.34 | 44.4 |
| 4/17/2015 17:30:23 | 43.96 | 42.26 | 775 | 1.43 | 0.34 | 42.4 |
| 4/17/2015 17:30:24 | 44.29 | 42.59 | 754 | 1.43 | 0.33 | 41.3 |
| 4/17/2015 17:30:24 | 44.62 | 42.92 | 754 | 1.43 | 0.33 | 41.3 |
| 4/17/2015 17:30:24 | 44.95 | 43.25 | 743 | 1.43 | 0.34 | 40.6 |
| 4/17/2015 17:30:25 | 45.28 | 43.58 | 734 | 1.44 | 0.33 | 40.2 |
| 4/17/2015 17:30:25 | 45.60 | 43.90 | 728 | 1.44 | 0.33 | 39.8 |
| 4/17/2015 17:30:26 | 45.93 | 44.23 | 737 | 1.44 | 0.32 | 40.3 |
| 4/17/2015 17:30:26 | 46.26 | 44.56 | 741 | 1.43 | 0.33 | 40.5 |
| 4/17/2015 17:30:27 | 46.59 | 44.89 | 763 | 1.44 | 0.32 | 41.7 |
| 4/17/2015 17:30:27 | 46.92 | 45.22 | 779 | 1.43 | 0.34 | 42.6 |
| 4/17/2015 17:30:28 | 47.24 | 45.54 | 784 | 1.44 | 0.33 | 42.8 |
| 4/17/2015 17:30:29 | 47.57 | 45.87 | 784 | 1.44 | 0.33 | 42.8 |
| 4/17/2015 17:30:29 | 47.90 | 46.20 | 785 | 1.43 | 0.33 | 42.9 |
| 4/17/2015 17:30:29 | 48.23 | 46.53 | 803 | 1.44 | 0.32 | 43.9 |
| 4/17/2015 17:30:30 | 48.56 | 46.86 | 799 | 1.91 | 0.34 | 43.7 |
| 4/17/2015 17:30:49 | 48.88 | 47.18 | 74 | 2.87 | 0.51 | 4.0 |
| 4/17/2015 17:30:53 | 49.21 | 47.51 | 75 | 4.87 | 0.54 | 4.1 |
| 4/17/2015 17:30:59 | 49.54 | 47.84 | 64 | 5.23 | 0.55 | 3.5 |
| 4/17/2015 17:31:07 | 49.87 | 48.17 | 32 | 6.06 | 0.43 | 1.7 |
| 4/17/2015 17:31:10 | 50.20 | 48.50 | 165 | 4.16 | 0.49 | 9.0 |
| 4/17/2015 17:31:11 | 50.53 | 48.83 | 208 | 3.88 | 0.50 | 11.4 |
| 4/17/2015 17:31:13 | 50.85 | 49.15 | 173 | 3.67 | 0.50 | 9.5 |
| 4/17/2015 17:31:18 | 51.18 | 49.48 | 67 | 3.94 | 0.52 | 3.7 |
| 4/17/2015 17:31:24 | 51.51 | 49.81 | 64 | 4.97 | 0.51 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 17:31:31 | 51.84 | 50.14 | 42 | 4.23 | 0.52 | 2.3 |
| 4/17/2015 | 17:31:37 | 52.17 | 50.47 | 55 | 4.31 | 0.51 | 3.0 |
| 4/17/2015 | 17:31:48 | 52.37 | 50.67 | 0 | 3.77 | 0.54 | 0.0 |

## C34 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:28:58

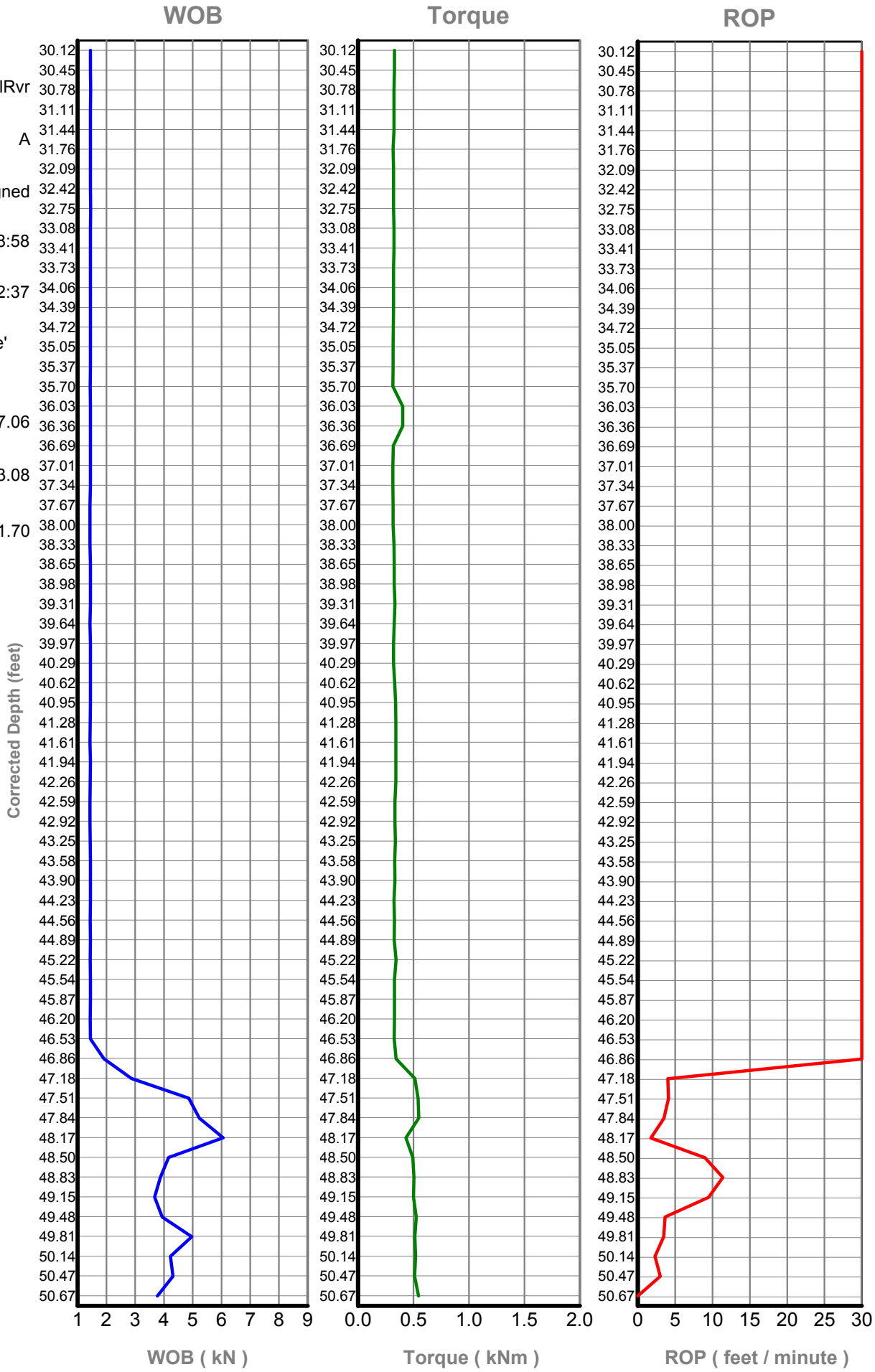
**End Date:**
4/17/2015 17:32:37

**Operator Note:**
'1.7 1.8 a Auto Complete'

**Northing:**
371,207.06

**Easting:**
258,363.08

**Tide (feet):**
1.70



## Hole: C35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:28:57 | 31.82 | 30.12 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:28:57 | 32.15 | 30.45 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:28:57 | 32.48 | 30.78 | 1,017 | 0.30 | 0.34 | 55.6 |
| 4/17/2015 17:28:58 | 32.81 | 31.11 | 1,018 | 0.30 | 0.35 | 55.7 |
| 4/17/2015 17:28:58 | 33.14 | 31.44 | 1,018 | 0.30 | 0.35 | 55.7 |
| 4/17/2015 17:28:58 | 33.46 | 31.76 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/17/2015 17:28:59 | 33.79 | 32.09 | 1,011 | 0.31 | 0.34 | 55.3 |
| 4/17/2015 17:28:59 | 34.12 | 32.42 | 1,011 | 0.31 | 0.34 | 55.3 |
| 4/17/2015 17:28:59 | 34.45 | 32.75 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 17:29:00 | 34.78 | 33.08 | 1,012 | 0.33 | 0.34 | 55.3 |
| 4/17/2015 17:29:00 | 35.11 | 33.41 | 1,012 | 0.33 | 0.34 | 55.3 |
| 4/17/2015 17:29:00 | 35.43 | 33.73 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/17/2015 17:29:01 | 35.76 | 34.06 | 1,015 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 17:29:01 | 36.09 | 34.39 | 1,010 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:29:02 | 36.42 | 34.72 | 1,010 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:29:02 | 36.75 | 35.05 | 1,007 | 0.29 | 0.34 | 55.1 |
| 4/17/2015 17:29:02 | 37.07 | 35.37 | 1,007 | 0.31 | 0.34 | 55.1 |
| 4/17/2015 17:29:03 | 37.40 | 35.70 | 1,007 | 0.31 | 0.34 | 55.1 |
| 4/17/2015 17:29:03 | 37.73 | 36.03 | 1,022 | 0.31 | 0.34 | 55.9 |
| 4/17/2015 17:29:03 | 38.06 | 36.36 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:29:04 | 38.39 | 36.69 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:29:04 | 38.71 | 37.01 | 1,012 | 0.30 | 0.34 | 55.3 |
| 4/17/2015 17:29:04 | 39.04 | 37.34 | 1,003 | 0.29 | 0.34 | 54.9 |
| 4/17/2015 17:29:05 | 39.37 | 37.67 | 1,003 | 0.29 | 0.34 | 54.9 |
| 4/17/2015 17:29:05 | 39.70 | 38.00 | 1,012 | 0.30 | 0.35 | 55.4 |
| 4/17/2015 17:29:06 | 40.03 | 38.33 | 1,003 | 0.29 | 0.34 | 54.9 |
| 4/17/2015 17:29:06 | 40.35 | 38.65 | 1,003 | 0.29 | 0.34 | 54.9 |
| 4/17/2015 17:29:06 | 40.68 | 38.98 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:29:07 | 41.01 | 39.31 | 997 | 0.30 | 0.34 | 54.5 |
| 4/17/2015 17:29:07 | 41.34 | 39.64 | 997 | 0.30 | 0.34 | 54.5 |
| 4/17/2015 17:29:07 | 41.67 | 39.97 | 1,018 | 0.30 | 0.34 | 55.7 |
| 4/17/2015 17:29:08 | 41.99 | 40.29 | 1,009 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:29:08 | 42.32 | 40.62 | 1,009 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:29:08 | 42.65 | 40.95 | 1,015 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 17:29:09 | 42.98 | 41.28 | 1,009 | 0.29 | 0.34 | 55.2 |
| 4/17/2015 17:29:09 | 43.31 | 41.61 | 1,009 | 0.29 | 0.34 | 55.2 |
| 4/17/2015 17:29:09 | 43.64 | 41.94 | 1,024 | 0.30 | 0.34 | 56.0 |
| 4/17/2015 17:29:10 | 43.96 | 42.26 | 1,015 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 17:29:10 | 44.29 | 42.59 | 1,015 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 17:29:10 | 44.62 | 42.92 | 1,018 | 0.30 | 0.34 | 55.7 |
| 4/17/2015 17:29:11 | 44.95 | 43.25 | 1,009 | 0.29 | 0.35 | 55.2 |
| 4/17/2015 17:29:11 | 45.28 | 43.58 | 1,018 | 0.30 | 0.33 | 55.6 |
| 4/17/2015 17:29:12 | 45.60 | 43.90 | 1,018 | 0.30 | 0.33 | 55.6 |
| 4/17/2015 17:29:12 | 45.93 | 44.23 | 1,015 | 0.30 | 0.34 | 55.5 |
| 4/17/2015 17:29:12 | 46.26 | 44.56 | 1,012 | 0.29 | 0.34 | 55.3 |
| 4/17/2015 17:29:13 | 46.59 | 44.89 | 1,012 | 0.29 | 0.34 | 55.3 |
| 4/17/2015 17:29:13 | 46.92 | 45.22 | 1,012 | 0.30 | 0.34 | 55.3 |
| 4/17/2015 17:29:13 | 47.24 | 45.54 | 1,020 | 0.30 | 0.34 | 55.8 |
| 4/17/2015 17:29:14 | 47.57 | 45.87 | 1,020 | 0.30 | 0.34 | 55.8 |
| 4/17/2015 17:29:14 | 47.90 | 46.20 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/17/2015 17:29:14 | 48.23 | 46.53 | 1,012 | 0.30 | 0.35 | 55.3 |
| 4/17/2015 17:29:15 | 48.56 | 46.86 | 1,012 | 0.30 | 0.35 | 55.3 |
| 4/17/2015 17:29:15 | 48.88 | 47.18 | 998 | 0.28 | 0.36 | 54.6 |
| 4/17/2015 17:29:26 | 49.21 | 47.51 | 29 | 2.74 | 0.42 | 1.6 |
| 4/17/2015 17:29:30 | 49.54 | 47.84 | 99 | 3.03 | 0.41 | 5.4 |
| 4/17/2015 17:29:32 | 49.87 | 48.17 | 182 | 3.50 | 0.41 | 10.0 |
| 4/17/2015 17:29:43 | 50.20 | 48.50 | 38 | 2.94 | 0.40 | 2.1 |
| 4/17/2015 17:29:46 | 50.53 | 48.83 | 112 | 3.12 | 0.40 | 6.1 |
| 4/17/2015 17:29:51 | 50.85 | 49.15 | 75 | 3.09 | 0.42 | 4.1 |
| 4/17/2015 17:29:55 | 51.18 | 49.48 | 93 | 2.89 | 0.41 | 5.1 |
| 4/17/2015 17:29:58 | 51.51 | 49.81 | 116 | 2.89 | 0.41 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 17:30:02 | 51.84 | 50.14 | 103 | 2.97 | 0.42 | 5.6 |
| 4/17/2015 | 17:30:06 | 52.17 | 50.47 | 72 | 2.93 | 0.41 | 4.0 |
| 4/17/2015 | 17:30:12 | 52.49 | 50.79 | 61 | 3.05 | 0.41 | 3.3 |
| 4/17/2015 | 17:30:19 | 52.82 | 51.12 | 55 | 3.29 | 0.42 | 3.0 |
| 4/17/2015 | 17:30:23 | 53.15 | 51.45 | 90 | 3.28 | 0.42 | 4.9 |
| 4/17/2015 | 17:30:26 | 53.48 | 51.78 | 122 | 3.11 | 0.41 | 6.6 |
| 4/17/2015 | 17:30:28 | 53.81 | 52.11 | 159 | 3.49 | 0.41 | 8.7 |
| 4/17/2015 | 17:30:33 | 54.13 | 52.43 | 60 | 2.93 | 0.41 | 3.3 |
| 4/17/2015 | 17:30:40 | 54.46 | 52.76 | 52 | 3.09 | 0.42 | 2.8 |
| 4/17/2015 | 17:30:47 | 54.79 | 53.09 | 54 | 3.09 | 0.41 | 2.9 |
| 4/17/2015 | 17:30:51 | 55.12 | 53.42 | 82 | 3.09 | 0.41 | 4.5 |
| 4/17/2015 | 17:30:56 | 55.45 | 53.75 | 69 | 3.17 | 0.41 | 3.8 |
| 4/17/2015 | 17:31:01 | 55.77 | 54.07 | 93 | 3.38 | 0.42 | 5.1 |
| 4/17/2015 | 17:31:06 | 56.10 | 54.40 | 55 | 3.12 | 0.42 | 3.0 |
| 4/17/2015 | 17:31:13 | 56.43 | 54.73 | 60 | 3.10 | 0.42 | 3.3 |
| 4/17/2015 | 17:31:21 | 56.76 | 55.06 | 26 | 2.71 | 0.39 | 1.4 |
| 4/17/2015 | 17:31:23 | 56.83 | 55.13 | 11 | 3.20 | 0.41 | 0.6 |

## C35 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:27:10

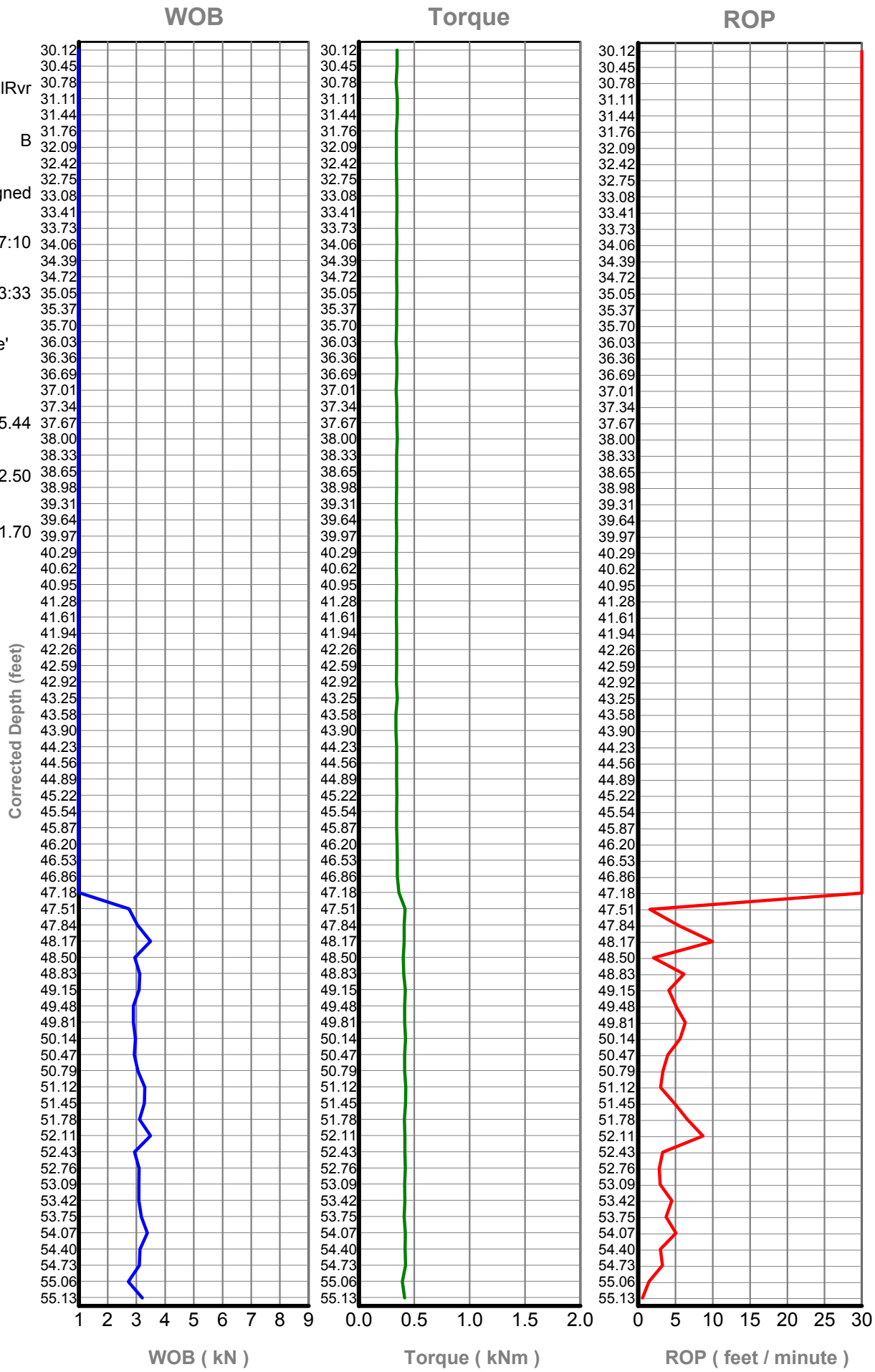
**End Date:**
4/17/2015 17:33:33

**Operator Note:**
'1.7 1.8 b Auto Complete'

**Northing:**
371,235.44

**Easting:**
258,432.50

**Tide (feet):**
1.70



## Hole: C36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:30:07 | 31.82 | 30.12 | 639 | 2.13 | 0.26 | 34.9 |
| 4/17/2015 17:30:07 | 32.15 | 30.45 | 650 | 2.13 | 0.26 | 35.5 |
| 4/17/2015 17:30:08 | 32.48 | 30.78 | 645 | 2.12 | 0.26 | 35.3 |
| 4/17/2015 17:30:08 | 32.81 | 31.11 | 634 | 2.13 | 0.26 | 34.7 |
| 4/17/2015 17:30:09 | 33.14 | 31.44 | 642 | 2.13 | 0.26 | 35.1 |
| 4/17/2015 17:30:09 | 33.46 | 31.76 | 645 | 2.11 | 0.25 | 35.3 |
| 4/17/2015 17:30:10 | 33.79 | 32.09 | 645 | 2.14 | 0.26 | 35.3 |
| 4/17/2015 17:30:10 | 34.12 | 32.42 | 642 | 2.12 | 0.26 | 35.1 |
| 4/17/2015 17:30:11 | 34.45 | 32.75 | 646 | 2.13 | 0.26 | 35.3 |
| 4/17/2015 17:30:11 | 34.78 | 33.08 | 642 | 2.12 | 0.26 | 35.1 |
| 4/17/2015 17:30:12 | 35.11 | 33.41 | 639 | 2.14 | 0.26 | 34.9 |
| 4/17/2015 17:30:13 | 35.43 | 33.73 | 636 | 2.13 | 0.25 | 34.8 |
| 4/17/2015 17:30:13 | 35.76 | 34.06 | 639 | 2.12 | 0.25 | 34.9 |
| 4/17/2015 17:30:14 | 36.09 | 34.39 | 642 | 2.14 | 0.25 | 35.1 |
| 4/17/2015 17:30:15 | 36.42 | 34.72 | 646 | 2.13 | 0.25 | 35.3 |
| 4/17/2015 17:30:15 | 36.75 | 35.05 | 635 | 2.12 | 0.26 | 34.7 |
| 4/17/2015 17:30:16 | 37.07 | 35.37 | 643 | 2.13 | 0.26 | 35.2 |
| 4/17/2015 17:30:16 | 37.40 | 35.70 | 640 | 2.14 | 0.26 | 35.0 |
| 4/17/2015 17:30:17 | 37.73 | 36.03 | 640 | 2.13 | 0.25 | 35.0 |
| 4/17/2015 17:30:17 | 38.06 | 36.36 | 636 | 2.13 | 0.25 | 34.8 |
| 4/17/2015 17:30:18 | 38.39 | 36.69 | 650 | 2.12 | 0.26 | 35.5 |
| 4/17/2015 17:30:18 | 38.71 | 37.01 | 639 | 2.14 | 0.25 | 34.9 |
| 4/17/2015 17:30:19 | 39.04 | 37.34 | 639 | 2.14 | 0.25 | 34.9 |
| 4/17/2015 17:30:19 | 39.37 | 37.67 | 635 | 2.14 | 0.25 | 34.7 |
| 4/17/2015 17:30:20 | 39.70 | 38.00 | 642 | 2.13 | 0.26 | 35.1 |
| 4/17/2015 17:30:20 | 40.03 | 38.33 | 639 | 2.14 | 0.25 | 34.9 |
| 4/17/2015 17:30:21 | 40.35 | 38.65 | 639 | 2.13 | 0.25 | 34.9 |
| 4/17/2015 17:30:22 | 40.68 | 38.98 | 645 | 2.12 | 0.25 | 35.3 |
| 4/17/2015 17:30:22 | 41.01 | 39.31 | 639 | 2.14 | 0.25 | 34.9 |
| 4/17/2015 17:30:23 | 41.34 | 39.64 | 636 | 2.13 | 0.25 | 34.8 |
| 4/17/2015 17:30:24 | 41.67 | 39.97 | 629 | 2.13 | 0.25 | 34.4 |
| 4/17/2015 17:30:24 | 41.99 | 40.29 | 640 | 2.13 | 0.26 | 35.0 |
| 4/17/2015 17:30:25 | 42.32 | 40.62 | 637 | 2.14 | 0.25 | 34.8 |
| 4/17/2015 17:30:25 | 42.65 | 40.95 | 634 | 2.13 | 0.25 | 34.7 |
| 4/17/2015 17:30:26 | 42.98 | 41.28 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 17:30:26 | 43.31 | 41.61 | 647 | 2.13 | 0.25 | 35.4 |
| 4/17/2015 17:30:27 | 43.64 | 41.94 | 636 | 2.12 | 0.25 | 34.8 |
| 4/17/2015 17:30:27 | 43.96 | 42.26 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 17:30:28 | 44.29 | 42.59 | 636 | 2.13 | 0.26 | 34.8 |
| 4/17/2015 17:30:29 | 44.62 | 42.92 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 17:30:29 | 44.95 | 43.25 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 17:30:30 | 45.28 | 43.58 | 629 | 2.13 | 0.25 | 34.4 |
| 4/17/2015 17:30:30 | 45.60 | 43.90 | 636 | 2.14 | 0.25 | 34.8 |
| 4/17/2015 17:30:31 | 45.93 | 44.23 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 17:30:31 | 46.26 | 44.56 | 633 | 2.13 | 0.25 | 34.6 |
| 4/17/2015 17:30:32 | 46.59 | 44.89 | 633 | 2.12 | 0.25 | 34.6 |
| 4/17/2015 17:30:32 | 46.92 | 45.22 | 636 | 2.14 | 0.25 | 34.8 |
| 4/17/2015 17:30:33 | 47.24 | 45.54 | 633 | 2.14 | 0.25 | 34.6 |
| 4/17/2015 17:30:34 | 47.57 | 45.87 | 636 | 2.13 | 0.25 | 34.8 |
| 4/17/2015 17:30:34 | 47.90 | 46.20 | 629 | 2.13 | 0.25 | 34.4 |
| 4/17/2015 17:31:03 | 48.23 | 46.53 | 67 | 2.25 | 1.19 | 3.7 |
| 4/17/2015 17:31:05 | 48.56 | 46.86 | 209 | 2.25 | 1.15 | 11.4 |
| 4/17/2015 17:31:08 | 48.88 | 47.18 | 149 | 2.27 | 1.16 | 8.2 |
| 4/17/2015 17:31:18 | 49.21 | 47.51 | 55 | 2.35 | 1.11 | 3.0 |
| 4/17/2015 17:31:28 | 49.54 | 47.84 | 35 | 2.36 | 1.18 | 1.9 |
| 4/17/2015 17:31:37 | 49.87 | 48.17 | 43 | 2.36 | 1.18 | 2.4 |
| 4/17/2015 17:31:43 | 50.20 | 48.50 | 69 | 2.36 | 1.27 | 3.8 |
| 4/17/2015 17:31:49 | 50.53 | 48.83 | 52 | 2.33 | 1.32 | 2.8 |
| 4/17/2015 17:31:56 | 50.85 | 49.15 | 49 | 2.34 | 1.30 | 2.7 |
| 4/17/2015 17:32:02 | 51.18 | 49.48 | 63 | 2.36 | 1.32 | 3.5 |
| 4/17/2015 17:32:05 | 51.33 | 49.63 | 49 | 2.34 | 1.49 | 2.7 |

## C36 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:28:27

**End Date:**
4/17/2015 17:33:31

**Operator Note:**
'1.7 1.8 c Auto Complete'

**Northing:**
371,263.83

**Easting:**
258,501.90

**Tide (feet):**
1.70



## Hole: C37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 2:49:45 | 35.11 | 30.11 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 2:49:46 | 35.43 | 30.43 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 2:49:45 | 35.76 | 30.76 | 1,020 | 0.18 | 0.34 | 55.8 |
| 4/18/2015 2:49:46 | 36.09 | 31.09 | 1,015 | 0.18 | 0.35 | 55.5 |
| 4/18/2015 2:49:47 | 36.42 | 31.42 | 1,015 | 0.18 | 0.35 | 55.5 |
| 4/18/2015 2:49:47 | 36.75 | 31.75 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/18/2015 2:49:47 | 37.07 | 32.07 | 1,015 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 2:49:48 | 37.40 | 32.40 | 1,015 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 2:49:48 | 37.73 | 32.73 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:48 | 38.06 | 33.06 | 1,003 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 2:49:49 | 38.39 | 33.39 | 1,003 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 2:49:49 | 38.71 | 33.71 | 1,006 | 0.18 | 0.34 | 55.0 |
| 4/18/2015 2:49:49 | 39.04 | 34.04 | 1,003 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 2:49:50 | 39.37 | 34.37 | 997 | 0.18 | 0.34 | 54.5 |
| 4/18/2015 2:49:50 | 39.70 | 34.70 | 997 | 0.18 | 0.34 | 54.5 |
| 4/18/2015 2:49:50 | 40.03 | 35.03 | 1,003 | 0.19 | 0.34 | 54.9 |
| 4/18/2015 2:49:51 | 40.35 | 35.35 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/18/2015 2:49:51 | 40.68 | 35.68 | 1,012 | 0.18 | 0.34 | 55.3 |
| 4/18/2015 2:49:51 | 41.01 | 36.01 | 1,000 | 0.18 | 0.34 | 54.7 |
| 4/18/2015 2:49:52 | 41.34 | 36.34 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:52 | 41.67 | 36.67 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:52 | 41.99 | 36.99 | 1,009 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:53 | 42.32 | 37.32 | 1,009 | 0.18 | 0.26 | 55.2 |
| 4/18/2015 2:49:53 | 42.65 | 37.65 | 1,009 | 0.18 | 0.26 | 55.2 |
| 4/18/2015 2:49:53 | 42.98 | 37.98 | 1,000 | 0.18 | 0.34 | 54.7 |
| 4/18/2015 2:49:54 | 43.31 | 38.31 | 998 | 0.18 | 0.34 | 54.6 |
| 4/18/2015 2:49:54 | 43.64 | 38.64 | 998 | 0.18 | 0.34 | 54.6 |
| 4/18/2015 2:49:54 | 43.96 | 38.96 | 997 | 0.18 | 0.35 | 54.5 |
| 4/18/2015 2:49:55 | 44.29 | 39.29 | 997 | 0.18 | 0.35 | 54.5 |
| 4/18/2015 2:49:56 | 44.62 | 39.62 | 997 | 0.18 | 0.35 | 54.5 |
| 4/18/2015 2:49:55 | 44.95 | 39.95 | 986 | 0.18 | 0.34 | 53.9 |
| 4/18/2015 2:49:56 | 45.28 | 40.28 | 1,004 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 2:49:57 | 45.60 | 40.60 | 1,004 | 0.18 | 0.34 | 54.9 |
| 4/18/2015 2:49:57 | 45.93 | 40.93 | 1,012 | 0.18 | 0.35 | 55.4 |
| 4/18/2015 2:49:57 | 46.26 | 41.26 | 1,016 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 2:49:58 | 46.59 | 41.59 | 1,010 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:58 | 46.92 | 41.92 | 1,010 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:49:58 | 47.24 | 42.24 | 1,013 | 0.18 | 0.34 | 55.4 |
| 4/18/2015 2:49:59 | 47.57 | 42.57 | 1,013 | 0.18 | 0.34 | 55.4 |
| 4/18/2015 2:49:59 | 47.90 | 42.90 | 1,013 | 0.18 | 0.34 | 55.4 |
| 4/18/2015 2:49:59 | 48.23 | 43.23 | 1,010 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:50:00 | 48.56 | 43.56 | 1,007 | 0.18 | 0.34 | 55.1 |
| 4/18/2015 2:50:00 | 48.88 | 43.88 | 1,007 | 0.18 | 0.34 | 55.1 |
| 4/18/2015 2:50:00 | 49.21 | 44.21 | 1,010 | 0.18 | 0.34 | 55.2 |
| 4/18/2015 2:50:01 | 49.54 | 44.54 | 1,018 | 0.18 | 0.34 | 55.7 |
| 4/18/2015 2:50:01 | 49.87 | 44.87 | 1,018 | 0.18 | 0.34 | 55.7 |
| 4/18/2015 2:50:01 | 50.20 | 45.20 | 1,015 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 2:50:02 | 50.53 | 45.53 | 1,012 | 0.18 | 0.34 | 55.4 |
| 4/18/2015 2:50:02 | 50.85 | 45.85 | 1,012 | 0.18 | 0.34 | 55.4 |
| 4/18/2015 2:50:02 | 51.18 | 46.18 | 1,009 | 0.17 | 0.36 | 55.2 |
| 4/18/2015 2:50:03 | 51.51 | 46.51 | 1,004 | 0.16 | 0.38 | 54.9 |
| 4/18/2015 2:50:41 | 51.84 | 46.84 | 0 | 5.14 | 0.39 | 0.0 |
| 4/18/2015 2:50:42 | 52.17 | 47.17 | 109 | 3.69 | 0.40 | 6.0 |
| 4/18/2015 2:50:43 | 52.49 | 47.49 | 272 | 3.82 | 0.41 | 14.9 |
| 4/18/2015 2:50:44 | 52.82 | 47.82 | 297 | 2.77 | 0.38 | 16.3 |
| 4/18/2015 2:50:45 | 53.15 | 48.15 | 376 | 4.55 | 0.41 | 20.6 |
| 4/18/2015 2:50:46 | 53.48 | 48.48 | 394 | 2.54 | 0.38 | 21.5 |
| 4/18/2015 2:50:46 | 53.81 | 48.81 | 414 | 2.86 | 0.40 | 22.7 |
| 4/18/2015 2:50:47 | 54.13 | 49.13 | 412 | 3.50 | 0.39 | 22.5 |
| 4/18/2015 2:50:48 | 54.46 | 49.46 | 410 | 2.08 | 0.37 | 22.4 |
| 4/18/2015 2:50:49 | 54.79 | 49.79 | 471 | 2.37 | 0.37 | 25.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 2:50:53 | 55.12 | 50.12 | 0 | 2.62 | 0.36 | 0.0 |
| 4/18/2015 | 2:50:53 | 55.45 | 50.45 | 43 | 3.40 | 0.40 | 2.3 |
| 4/18/2015 | 2:51:01 | 55.77 | 50.77 | 46 | 4.38 | 0.32 | 2.5 |
| 4/18/2015 | 2:51:03 | 56.10 | 51.10 | 147 | 3.35 | 0.41 | 8.0 |
| 4/18/2015 | 2:51:04 | 56.43 | 51.43 | 243 | 4.03 | 0.40 | 13.3 |
| 4/18/2015 | 2:51:06 | 56.76 | 51.76 | 207 | 3.62 | 0.42 | 11.3 |
| 4/18/2015 | 2:51:08 | 57.09 | 52.09 | 182 | 3.95 | 0.42 | 10.0 |
| 4/18/2015 | 2:51:10 | 57.41 | 52.41 | 191 | 3.82 | 0.41 | 10.4 |
| 4/18/2015 | 2:51:12 | 57.74 | 52.74 | 200 | 3.87 | 0.40 | 10.9 |
| 4/18/2015 | 2:51:13 | 58.07 | 53.07 | 254 | 3.67 | 0.40 | 13.9 |
| 4/18/2015 | 2:51:14 | 58.40 | 53.40 | 301 | 3.88 | 0.41 | 16.4 |
| 4/18/2015 | 2:51:16 | 58.73 | 53.73 | 196 | 8.01 | 0.41 | 10.7 |
| 4/18/2015 | 2:51:17 | 59.06 | 54.06 | 228 | 3.94 | 0.41 | 12.5 |
| 4/18/2015 | 2:51:18 | 59.38 | 54.38 | 290 | 3.27 | 0.41 | 15.9 |
| 4/18/2015 | 2:51:20 | 59.71 | 54.71 | 271 | 2.95 | 0.41 | 14.8 |
| 4/18/2015 | 2:51:21 | 59.91 | 54.91 | 215 | 3.25 | 0.42 | 11.8 |

## C37 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 2:44:10

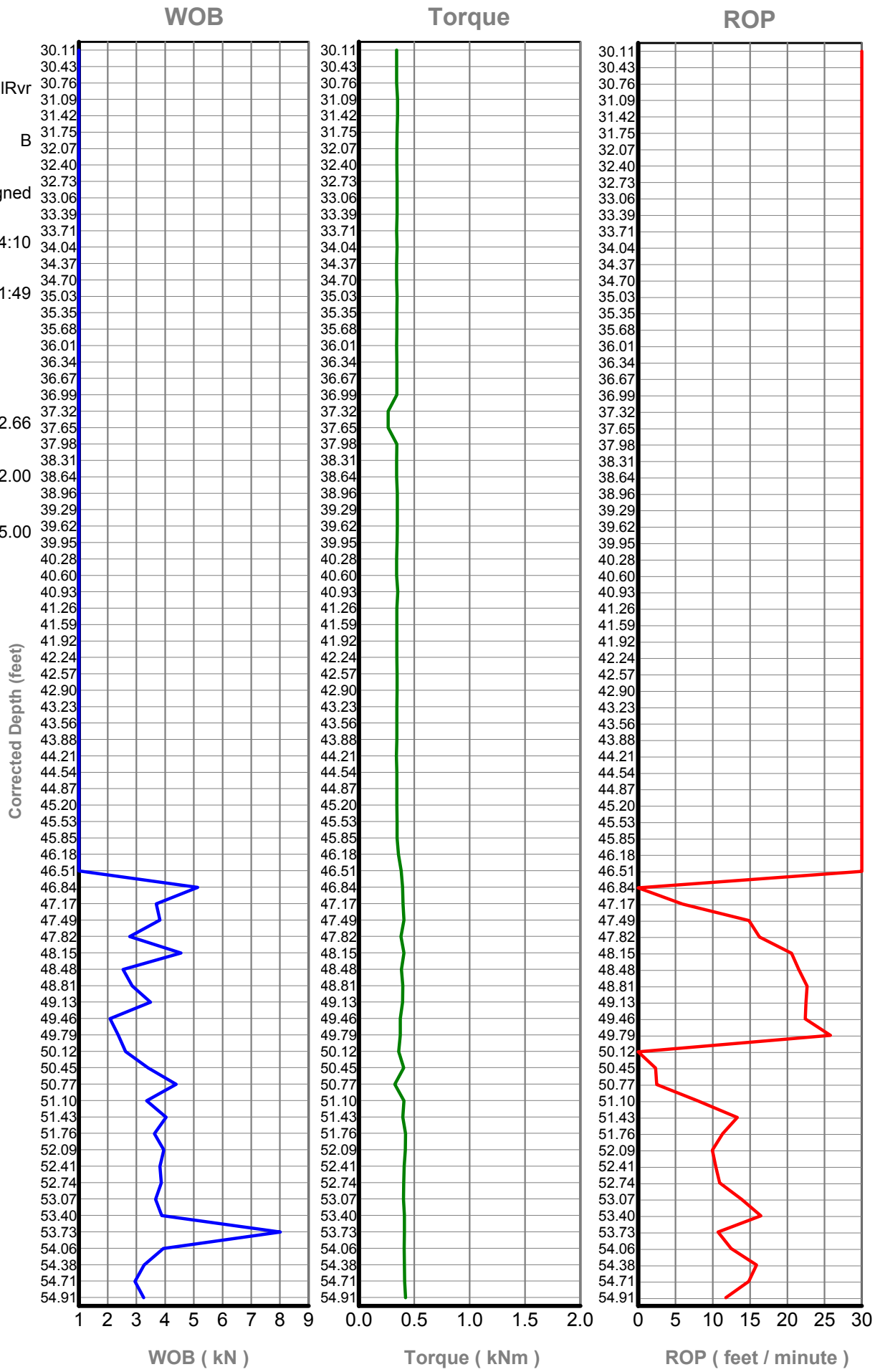
**End Date:**
4/18/2015 2:51:49

**Operator Note:**
'5 4.9 b Auto Complete'

**Northing:**
370,862.66

**Easting:**
257,792.00

**Tide (feet):**
5.00



## Hole: C38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 3:01:41 | 34.78 | 30.18 | 1,041 | 0.18 | 0.34 | 56.9 |
| 4/18/2015 3:01:41 | 35.11 | 30.51 | 1,041 | 0.18 | 0.34 | 56.9 |
| 4/18/2015 3:01:41 | 35.43 | 30.83 | 1,032 | 0.18 | 0.34 | 56.5 |
| 4/18/2015 3:01:42 | 35.76 | 31.16 | 1,027 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 3:01:42 | 36.09 | 31.49 | 1,027 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 3:01:42 | 36.42 | 31.82 | 1,018 | 0.18 | 0.34 | 55.7 |
| 4/18/2015 3:01:43 | 36.75 | 32.15 | 1,038 | 0.18 | 0.34 | 56.8 |
| 4/18/2015 3:01:43 | 37.07 | 32.47 | 1,038 | 0.18 | 0.34 | 56.8 |
| 4/18/2015 3:01:43 | 37.40 | 32.80 | 1,026 | 0.18 | 0.33 | 56.1 |
| 4/18/2015 3:01:44 | 37.73 | 33.13 | 1,021 | 0.18 | 0.34 | 55.8 |
| 4/18/2015 3:01:45 | 38.06 | 33.46 | 1,021 | 0.18 | 0.34 | 55.8 |
| 4/18/2015 3:01:45 | 38.39 | 33.79 | 1,021 | 0.18 | 0.34 | 55.8 |
| 4/18/2015 3:01:45 | 38.71 | 34.11 | 1,026 | 0.17 | 0.33 | 56.1 |
| 4/18/2015 3:01:46 | 39.04 | 34.44 | 1,014 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 3:01:46 | 39.37 | 34.77 | 1,014 | 0.18 | 0.34 | 55.5 |
| 4/18/2015 3:01:46 | 39.70 | 35.10 | 1,023 | 0.18 | 0.34 | 56.0 |
| 4/18/2015 3:01:47 | 40.03 | 35.43 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 3:01:47 | 40.35 | 35.75 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/18/2015 3:01:47 | 40.68 | 36.08 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/18/2015 3:01:48 | 41.01 | 36.41 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/18/2015 3:01:48 | 41.34 | 36.74 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/18/2015 3:01:48 | 41.67 | 37.07 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 3:01:49 | 41.99 | 37.39 | 1,023 | 0.18 | 0.33 | 56.0 |
| 4/18/2015 3:01:49 | 42.32 | 37.72 | 1,023 | 0.18 | 0.33 | 56.0 |
| 4/18/2015 3:01:49 | 42.65 | 38.05 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 3:01:50 | 42.98 | 38.38 | 1,023 | 0.17 | 0.34 | 56.0 |
| 4/18/2015 3:01:50 | 43.31 | 38.71 | 1,023 | 0.17 | 0.34 | 56.0 |
| 4/18/2015 3:01:50 | 43.64 | 39.04 | 1,020 | 0.18 | 0.33 | 55.8 |
| 4/18/2015 3:01:51 | 43.96 | 39.36 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:51 | 44.29 | 39.69 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:51 | 44.62 | 40.02 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:52 | 44.95 | 40.35 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/18/2015 3:01:52 | 45.28 | 40.68 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/18/2015 3:01:52 | 45.60 | 41.00 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 3:01:53 | 45.93 | 41.33 | 1,023 | 0.18 | 0.33 | 56.0 |
| 4/18/2015 3:01:53 | 46.26 | 41.66 | 1,023 | 0.18 | 0.33 | 56.0 |
| 4/18/2015 3:01:53 | 46.59 | 41.99 | 1,029 | 0.18 | 0.33 | 56.3 |
| 4/18/2015 3:01:54 | 46.92 | 42.32 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:54 | 47.24 | 42.64 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:54 | 47.57 | 42.97 | 1,023 | 0.18 | 0.34 | 56.0 |
| 4/18/2015 3:01:55 | 47.90 | 43.30 | 1,023 | 0.18 | 0.34 | 56.0 |
| 4/18/2015 3:01:56 | 48.23 | 43.63 | 1,023 | 0.18 | 0.34 | 56.0 |
| 4/18/2015 3:01:56 | 48.56 | 43.96 | 1,032 | 0.17 | 0.34 | 56.4 |
| 4/18/2015 3:01:56 | 48.88 | 44.28 | 1,029 | 0.17 | 0.34 | 56.3 |
| 4/18/2015 3:01:57 | 49.21 | 44.61 | 1,029 | 0.17 | 0.34 | 56.3 |
| 4/18/2015 3:01:57 | 49.54 | 44.94 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 3:01:57 | 49.87 | 45.27 | 1,020 | 0.20 | 0.34 | 55.8 |
| 4/18/2015 3:01:58 | 50.20 | 45.60 | 1,020 | 0.20 | 0.34 | 55.8 |
| 4/18/2015 3:01:58 | 50.53 | 45.93 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/18/2015 3:01:58 | 50.85 | 46.25 | 1,021 | 0.16 | 0.40 | 55.8 |
| 4/18/2015 3:02:37 | 51.18 | 46.58 | 56 | 3.18 | 0.42 | 3.1 |
| 4/18/2015 3:02:44 | 51.51 | 46.91 | 66 | 3.43 | 0.37 | 3.6 |
| 4/18/2015 3:02:44 | 51.84 | 47.24 | 163 | 2.90 | 0.38 | 8.9 |
| 4/18/2015 3:02:45 | 52.17 | 47.57 | 260 | 2.91 | 0.38 | 14.2 |
| 4/18/2015 3:02:45 | 52.49 | 47.89 | 377 | 2.09 | 0.37 | 20.6 |
| 4/18/2015 3:02:46 | 52.82 | 48.22 | 520 | 2.21 | 0.36 | 28.4 |
| 4/18/2015 3:02:49 | 53.15 | 48.55 | 267 | 2.99 | 0.42 | 14.6 |
| 4/18/2015 3:02:51 | 53.48 | 48.88 | 84 | 2.67 | 0.37 | 4.6 |
| 4/18/2015 3:02:52 | 53.81 | 49.21 | 175 | 3.19 | 0.39 | 9.6 |
| 4/18/2015 3:02:53 | 54.13 | 49.53 | 352 | 2.90 | 0.39 | 19.2 |
| 4/18/2015 3:02:53 | 54.46 | 49.86 | 446 | 2.14 | 0.36 | 24.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 3:02:54 | 54.79 | 50.19 | 549 | 2.18 | 0.36 | 30.0 |
| 4/18/2015 | 3:02:54 | 55.12 | 50.52 | 595 | 2.10 | 0.37 | 32.5 |
| 4/18/2015 | 3:02:55 | 55.45 | 50.85 | 636 | 2.33 | 0.37 | 34.8 |
| 4/18/2015 | 3:02:55 | 55.77 | 51.17 | 682 | 2.23 | 0.36 | 37.3 |
| 4/18/2015 | 3:02:56 | 56.10 | 51.50 | 721 | 2.18 | 0.36 | 39.4 |
| 4/18/2015 | 3:02:56 | 56.43 | 51.83 | 721 | 2.18 | 0.36 | 39.4 |
| 4/18/2015 | 3:02:56 | 56.76 | 52.16 | 746 | 2.21 | 0.37 | 40.8 |
| 4/18/2015 | 3:02:58 | 57.09 | 52.49 | 722 | 2.86 | 0.41 | 39.5 |
| 4/18/2015 | 3:03:00 | 57.41 | 52.81 | 107 | 3.44 | 0.39 | 5.8 |
| 4/18/2015 | 3:03:01 | 57.74 | 53.14 | 168 | 6.06 | 0.41 | 9.2 |
| 4/18/2015 | 3:03:03 | 58.07 | 53.47 | 304 | 3.79 | 0.41 | 16.6 |
| 4/18/2015 | 3:03:05 | 58.40 | 53.80 | 113 | 3.75 | 0.41 | 6.2 |
| 4/18/2015 | 3:03:09 | 58.73 | 54.13 | 102 | 3.24 | 0.41 | 5.6 |
| 4/18/2015 | 3:03:14 | 59.06 | 54.46 | 69 | 3.72 | 0.42 | 3.8 |
| 4/18/2015 | 3:03:23 | 59.38 | 54.78 | 39 | 3.90 | 0.42 | 2.1 |
| 4/18/2015 | 3:03:33 | 59.71 | 55.11 | 32 | 3.48 | 0.42 | 1.8 |
| 4/18/2015 | 3:03:41 | 59.93 | 55.33 | 38 | 3.94 | 0.42 | 2.1 |

## C38 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 3:00:24

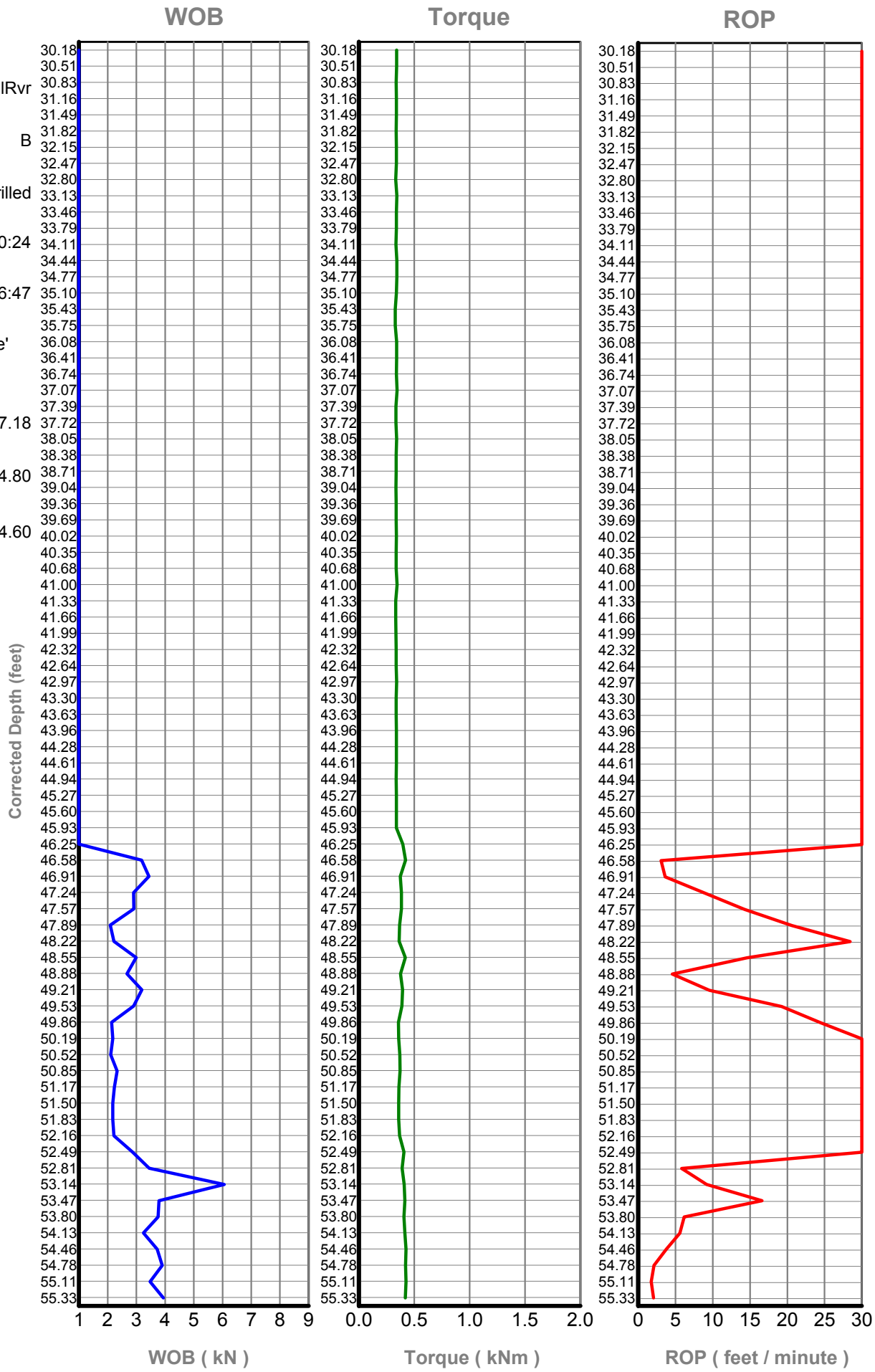
**End Date:**
4/18/2015 3:06:47

**Operator Note:**
'4.6 4.9 b Auto Complete'

**Northing:**
370,887.18

**Easting:**
257,844.80

**Tide (feet):**
4.60



## Hole: C39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 2:46:04 | 35.11 | 30.11 | 592 | 2.13 | 0.15 | 32.4 |
| 4/18/2015 2:46:04 | 35.43 | 30.43 | 592 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:05 | 35.76 | 30.76 | 597 | 2.14 | 0.15 | 32.7 |
| 4/18/2015 2:46:05 | 36.09 | 31.09 | 594 | 2.14 | 0.15 | 32.5 |
| 4/18/2015 2:46:06 | 36.42 | 31.42 | 595 | 2.13 | 0.15 | 32.5 |
| 4/18/2015 2:46:06 | 36.75 | 31.75 | 591 | 2.14 | 0.15 | 32.3 |
| 4/18/2015 2:46:07 | 37.07 | 32.07 | 597 | 2.14 | 0.15 | 32.7 |
| 4/18/2015 2:46:08 | 37.40 | 32.40 | 592 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:08 | 37.73 | 32.73 | 598 | 2.14 | 0.15 | 32.7 |
| 4/18/2015 2:46:09 | 38.06 | 33.06 | 596 | 2.13 | 0.15 | 32.6 |
| 4/18/2015 2:46:10 | 38.39 | 33.39 | 599 | 2.13 | 0.15 | 32.8 |
| 4/18/2015 2:46:10 | 38.71 | 33.71 | 596 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:11 | 39.04 | 34.04 | 598 | 2.12 | 0.15 | 32.7 |
| 4/18/2015 2:46:11 | 39.37 | 34.37 | 595 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:12 | 39.70 | 34.70 | 588 | 2.13 | 0.15 | 32.2 |
| 4/18/2015 2:46:13 | 40.03 | 35.03 | 588 | 2.13 | 0.15 | 32.2 |
| 4/18/2015 2:46:13 | 40.35 | 35.35 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:14 | 40.68 | 35.68 | 594 | 2.12 | 0.15 | 32.5 |
| 4/18/2015 2:46:14 | 41.01 | 36.01 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:15 | 41.34 | 36.34 | 596 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:16 | 41.67 | 36.67 | 595 | 2.13 | 0.15 | 32.6 |
| 4/18/2015 2:46:16 | 41.99 | 36.99 | 595 | 2.14 | 0.15 | 32.5 |
| 4/18/2015 2:46:17 | 42.32 | 37.32 | 595 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:17 | 42.65 | 37.65 | 593 | 2.13 | 0.15 | 32.4 |
| 4/18/2015 2:46:18 | 42.98 | 37.98 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:18 | 43.31 | 38.31 | 595 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:19 | 43.64 | 38.64 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:20 | 43.96 | 38.96 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:21 | 44.29 | 39.29 | 589 | 2.14 | 0.15 | 32.2 |
| 4/18/2015 2:46:21 | 44.62 | 39.62 | 596 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:22 | 44.95 | 39.95 | 596 | 2.14 | 0.15 | 32.6 |
| 4/18/2015 2:46:22 | 45.28 | 40.28 | 593 | 2.13 | 0.15 | 32.4 |
| 4/18/2015 2:46:23 | 45.60 | 40.60 | 593 | 2.14 | 0.15 | 32.4 |
| 4/18/2015 2:46:24 | 45.93 | 40.93 | 590 | 2.08 | 0.15 | 32.2 |
| 4/18/2015 2:46:24 | 46.26 | 41.26 | 590 | 2.13 | 0.15 | 32.2 |
| 4/18/2015 2:46:25 | 46.59 | 41.59 | 592 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 2:46:25 | 46.92 | 41.92 | 580 | 2.14 | 0.15 | 31.7 |
| 4/18/2015 2:46:26 | 47.24 | 42.24 | 580 | 2.14 | 0.15 | 31.7 |
| 4/18/2015 2:46:26 | 47.57 | 42.57 | 584 | 2.13 | 0.15 | 32.0 |
| 4/18/2015 2:46:27 | 47.90 | 42.90 | 581 | 2.14 | 0.15 | 31.8 |
| 4/18/2015 2:46:28 | 48.23 | 43.23 | 579 | 2.14 | 0.14 | 31.7 |
| 4/18/2015 2:46:28 | 48.56 | 43.56 | 581 | 2.14 | 0.15 | 31.8 |
| 4/18/2015 2:46:29 | 48.88 | 43.88 | 600 | 2.14 | 0.15 | 32.8 |
| 4/18/2015 2:46:29 | 49.21 | 44.21 | 592 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 2:46:30 | 49.54 | 44.54 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 2:46:31 | 49.87 | 44.87 | 604 | 2.14 | 0.15 | 33.0 |
| 4/18/2015 2:46:32 | 50.20 | 45.20 | 589 | 2.16 | 0.14 | 32.2 |
| 4/18/2015 2:47:27 | 50.53 | 45.53 | 0 | 1.87 | 1.41 | 0.0 |
| 4/18/2015 2:47:37 | 50.85 | 45.85 | 83 | 2.21 | 1.13 | 4.5 |
| 4/18/2015 2:47:38 | 51.18 | 46.18 | 222 | 2.23 | 1.35 | 12.1 |
| 4/18/2015 2:47:39 | 51.51 | 46.51 | 274 | 2.21 | 1.03 | 15.0 |
| 4/18/2015 2:47:40 | 51.84 | 46.84 | 330 | 2.23 | 1.18 | 18.0 |
| 4/18/2015 2:47:42 | 52.17 | 47.17 | 318 | 2.19 | 0.97 | 17.4 |
| 4/18/2015 2:47:43 | 52.49 | 47.49 | 318 | 2.19 | 0.97 | 17.4 |
| 4/18/2015 2:47:43 | 52.82 | 47.82 | 398 | 2.18 | 0.91 | 21.7 |
| 4/18/2015 2:47:44 | 53.15 | 48.15 | 449 | 2.19 | 0.94 | 24.5 |
| 4/18/2015 2:47:44 | 53.48 | 48.48 | 500 | 2.19 | 0.98 | 27.4 |
| 4/18/2015 2:47:45 | 53.81 | 48.81 | 525 | 2.19 | 0.93 | 28.7 |
| 4/18/2015 2:47:48 | 54.13 | 49.13 | 8 | 2.19 | 1.09 | 0.4 |
| 4/18/2015 2:47:49 | 54.46 | 49.46 | 108 | 2.18 | 0.94 | 5.9 |
| 4/18/2015 2:47:54 | 54.79 | 49.79 | 0 | 2.17 | 0.91 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 2:47:55 | 55.12 | 50.12 | 34 | 2.18 | 0.95 | 1.9 |
| 4/18/2015 | 2:47:56 | 55.45 | 50.45 | 213 | 2.22 | 1.08 | 11.7 |
| 4/18/2015 | 2:47:57 | 55.77 | 50.77 | 373 | 2.21 | 1.16 | 20.4 |
| 4/18/2015 | 2:48:01 | 56.10 | 51.10 | 48 | 2.27 | 1.40 | 2.7 |
| 4/18/2015 | 2:48:03 | 56.43 | 51.43 | 105 | 2.22 | 1.14 | 5.7 |
| 4/18/2015 | 2:48:05 | 56.76 | 51.76 | 214 | 2.18 | 1.01 | 11.7 |
| 4/18/2015 | 2:48:06 | 57.09 | 52.09 | 235 | 2.21 | 1.10 | 12.9 |
| 4/18/2015 | 2:48:06 | 57.41 | 52.41 | 240 | 2.20 | 1.12 | 13.1 |
| 4/18/2015 | 2:48:09 | 57.74 | 52.74 | 166 | 2.19 | 1.09 | 9.1 |
| 4/18/2015 | 2:48:11 | 58.07 | 53.07 | 100 | 2.19 | 0.95 | 5.5 |
| 4/18/2015 | 2:48:12 | 58.40 | 53.40 | 156 | 2.17 | 1.06 | 8.5 |
| 4/18/2015 | 2:48:13 | 58.73 | 53.73 | 176 | 2.17 | 0.97 | 9.6 |
| 4/18/2015 | 2:48:15 | 59.06 | 54.06 | 233 | 2.15 | 0.87 | 12.8 |
| 4/18/2015 | 2:48:16 | 59.38 | 54.38 | 234 | 2.18 | 1.00 | 12.8 |
| 4/18/2015 | 2:48:22 | 59.71 | 54.71 | 100 | 2.23 | 1.19 | 5.4 |
| 4/18/2015 | 2:48:23 | 59.92 | 54.92 | 220 | 1.85 | 1.10 | 12.0 |

## C39 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 2:44:16

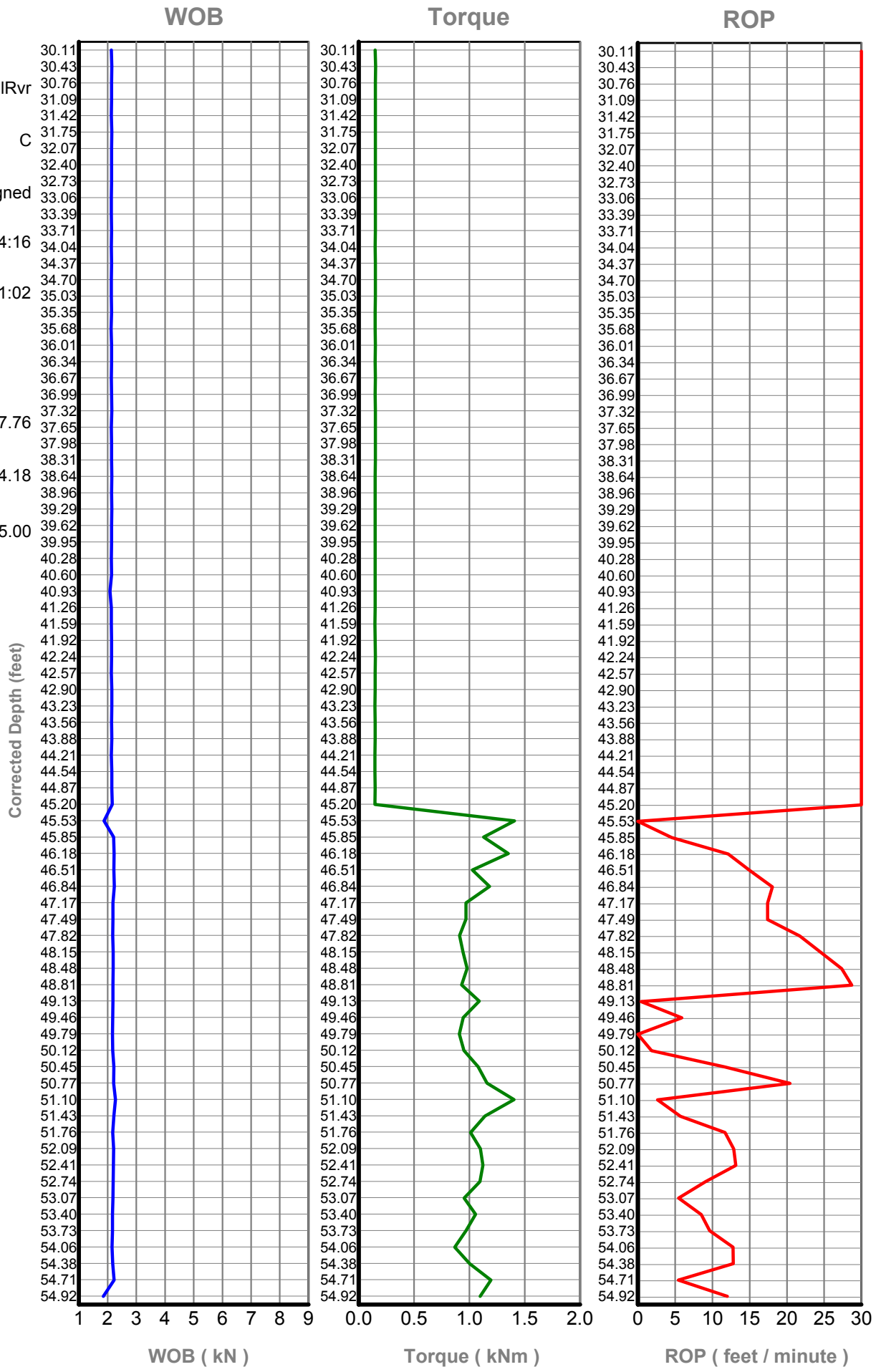
**End Date:**
4/18/2015 2:51:02

**Operator Note:**
'5 4.9 c Auto Complete'

**Northing:**
370,917.76

**Easting:**
257,914.18

**Tide (feet):**
5.00



## Hole: C4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:04:56 | 32.48 | 30.18 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:04:56 | 32.81 | 30.51 | 596 | 2.14 | 0.13 | 32.6 |
| 4/17/2015 21:04:57 | 33.14 | 30.84 | 592 | 2.12 | 0.14 | 32.4 |
| 4/17/2015 21:04:58 | 33.46 | 31.16 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:04:58 | 33.79 | 31.49 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:04:59 | 34.12 | 31.82 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:04:59 | 34.45 | 32.15 | 598 | 2.13 | 0.14 | 32.7 |
| 4/17/2015 21:05:00 | 34.78 | 32.48 | 598 | 2.12 | 0.14 | 32.7 |
| 4/17/2015 21:05:00 | 35.11 | 32.81 | 598 | 2.12 | 0.13 | 32.7 |
| 4/17/2015 21:05:01 | 35.43 | 33.13 | 585 | 2.12 | 0.13 | 32.0 |
| 4/17/2015 21:05:02 | 35.76 | 33.46 | 585 | 2.13 | 0.14 | 32.0 |
| 4/17/2015 21:05:03 | 36.09 | 33.79 | 591 | 2.11 | 0.13 | 32.3 |
| 4/17/2015 21:05:03 | 36.42 | 34.12 | 592 | 2.12 | 0.13 | 32.4 |
| 4/17/2015 21:05:04 | 36.75 | 34.45 | 585 | 2.12 | 0.14 | 32.0 |
| 4/17/2015 21:05:04 | 37.07 | 34.77 | 595 | 2.12 | 0.14 | 32.5 |
| 4/17/2015 21:05:05 | 37.40 | 35.10 | 602 | 2.13 | 0.13 | 32.9 |
| 4/17/2015 21:05:06 | 37.73 | 35.43 | 592 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 21:05:06 | 38.06 | 35.76 | 602 | 2.12 | 0.13 | 32.9 |
| 4/17/2015 21:05:07 | 38.39 | 36.09 | 596 | 2.12 | 0.14 | 32.6 |
| 4/17/2015 21:05:07 | 38.71 | 36.41 | 596 | 2.12 | 0.14 | 32.6 |
| 4/17/2015 21:05:08 | 39.04 | 36.74 | 596 | 2.12 | 0.13 | 32.6 |
| 4/17/2015 21:05:08 | 39.37 | 37.07 | 596 | 2.13 | 0.13 | 32.6 |
| 4/17/2015 21:05:09 | 39.70 | 37.40 | 596 | 2.14 | 0.13 | 32.6 |
| 4/17/2015 21:05:10 | 40.03 | 37.73 | 592 | 2.13 | 0.13 | 32.4 |
| 4/17/2015 21:05:10 | 40.35 | 38.05 | 592 | 2.12 | 0.13 | 32.4 |
| 4/17/2015 21:05:11 | 40.68 | 38.38 | 596 | 2.12 | 0.13 | 32.6 |
| 4/17/2015 21:05:11 | 41.01 | 38.71 | 586 | 2.13 | 0.13 | 32.0 |
| 4/17/2015 21:05:12 | 41.34 | 39.04 | 586 | 2.14 | 0.13 | 32.0 |
| 4/17/2015 21:05:12 | 41.67 | 39.37 | 588 | 2.14 | 0.13 | 32.2 |
| 4/17/2015 21:05:14 | 41.99 | 39.69 | 595 | 2.12 | 0.13 | 32.5 |
| 4/17/2015 21:05:14 | 42.32 | 40.02 | 592 | 2.13 | 0.13 | 32.3 |
| 4/17/2015 21:05:15 | 42.65 | 40.35 | 598 | 2.12 | 0.13 | 32.7 |
| 4/17/2015 21:05:15 | 42.98 | 40.68 | 593 | 2.12 | 0.13 | 32.4 |
| 4/17/2015 21:05:16 | 43.31 | 41.01 | 583 | 2.12 | 0.13 | 31.9 |
| 4/17/2015 21:05:16 | 43.64 | 41.34 | 583 | 2.13 | 0.14 | 31.9 |
| 4/17/2015 21:05:17 | 43.96 | 41.66 | 587 | 2.14 | 0.13 | 32.1 |
| 4/17/2015 21:05:18 | 44.29 | 41.99 | 577 | 2.12 | 0.13 | 31.6 |
| 4/17/2015 21:05:18 | 44.62 | 42.32 | 574 | 2.14 | 0.13 | 31.4 |
| 4/17/2015 21:05:19 | 44.95 | 42.65 | 574 | 2.12 | 0.13 | 31.4 |
| 4/17/2015 21:05:19 | 45.28 | 42.98 | 593 | 2.12 | 0.13 | 32.4 |
| 4/17/2015 21:05:20 | 45.60 | 43.30 | 568 | 2.13 | 0.13 | 31.1 |
| 4/17/2015 21:05:21 | 45.93 | 43.63 | 575 | 2.14 | 0.13 | 31.5 |
| 4/17/2015 21:05:21 | 46.26 | 43.96 | 576 | 2.12 | 0.13 | 31.5 |
| 4/17/2015 21:05:22 | 46.59 | 44.29 | 578 | 2.13 | 0.13 | 31.6 |
| 4/17/2015 21:05:22 | 46.92 | 44.62 | 574 | 2.19 | 0.13 | 31.4 |
| 4/17/2015 21:05:56 | 47.24 | 44.94 | 119 | 2.19 | 1.23 | 6.5 |
| 4/17/2015 21:05:57 | 47.57 | 45.27 | 250 | 2.18 | 1.13 | 13.7 |
| 4/17/2015 21:05:58 | 47.90 | 45.60 | 330 | 2.18 | 1.02 | 18.0 |
| 4/17/2015 21:05:59 | 48.23 | 45.93 | 390 | 2.16 | 1.09 | 21.3 |
| 4/17/2015 21:06:01 | 48.56 | 46.26 | 247 | 2.09 | 0.91 | 13.5 |
| 4/17/2015 21:06:02 | 48.88 | 46.58 | 204 | 2.15 | 1.00 | 11.2 |
| 4/17/2015 21:06:02 | 49.21 | 46.91 | 225 | 2.17 | 1.01 | 12.3 |
| 4/17/2015 21:06:03 | 49.54 | 47.24 | 307 | 2.17 | 1.11 | 16.8 |
| 4/17/2015 21:06:04 | 49.87 | 47.57 | 401 | 2.14 | 0.98 | 21.9 |
| 4/17/2015 21:06:07 | 50.20 | 47.90 | 310 | 2.16 | 0.99 | 17.0 |
| 4/17/2015 21:06:07 | 50.53 | 48.23 | 323 | 2.19 | 1.09 | 17.6 |
| 4/17/2015 21:06:12 | 50.85 | 48.55 | 48 | 2.23 | 1.17 | 2.7 |
| 4/17/2015 21:06:13 | 51.18 | 48.88 | 102 | 2.20 | 1.30 | 5.6 |
| 4/17/2015 21:06:14 | 51.51 | 49.21 | 228 | 2.18 | 1.17 | 12.5 |
| 4/17/2015 21:06:15 | 51.84 | 49.54 | 339 | 2.17 | 0.97 | 18.5 |
| 4/17/2015 21:06:16 | 52.17 | 49.87 | 371 | 2.17 | 0.91 | 20.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:06:17 | 52.49 | 50.19 | 425 | 2.18 | 1.15 | 23.2 |
| 4/17/2015 | 21:06:21 | 52.82 | 50.52 | 9 | 2.13 | 0.89 | 0.5 |
| 4/17/2015 | 21:06:21 | 53.15 | 50.85 | 112 | 2.15 | 0.94 | 6.1 |
| 4/17/2015 | 21:06:22 | 53.48 | 51.18 | 218 | 2.16 | 0.98 | 11.9 |
| 4/17/2015 | 21:06:28 | 53.81 | 51.51 | 37 | 2.29 | 1.52 | 2.0 |
| 4/17/2015 | 21:06:34 | 54.13 | 51.83 | 84 | 2.29 | 1.25 | 4.6 |
| 4/17/2015 | 21:06:42 | 54.46 | 52.16 | 118 | 2.23 | 1.16 | 6.5 |
| 4/17/2015 | 21:06:44 | 54.79 | 52.49 | 133 | 2.36 | 1.20 | 7.3 |
| 4/17/2015 | 21:06:49 | 55.12 | 52.82 | 79 | 2.31 | 1.18 | 4.3 |
| 4/17/2015 | 21:06:53 | 55.35 | 53.05 | 63 | 2.34 | 1.27 | 3.5 |

## C4 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:00:55

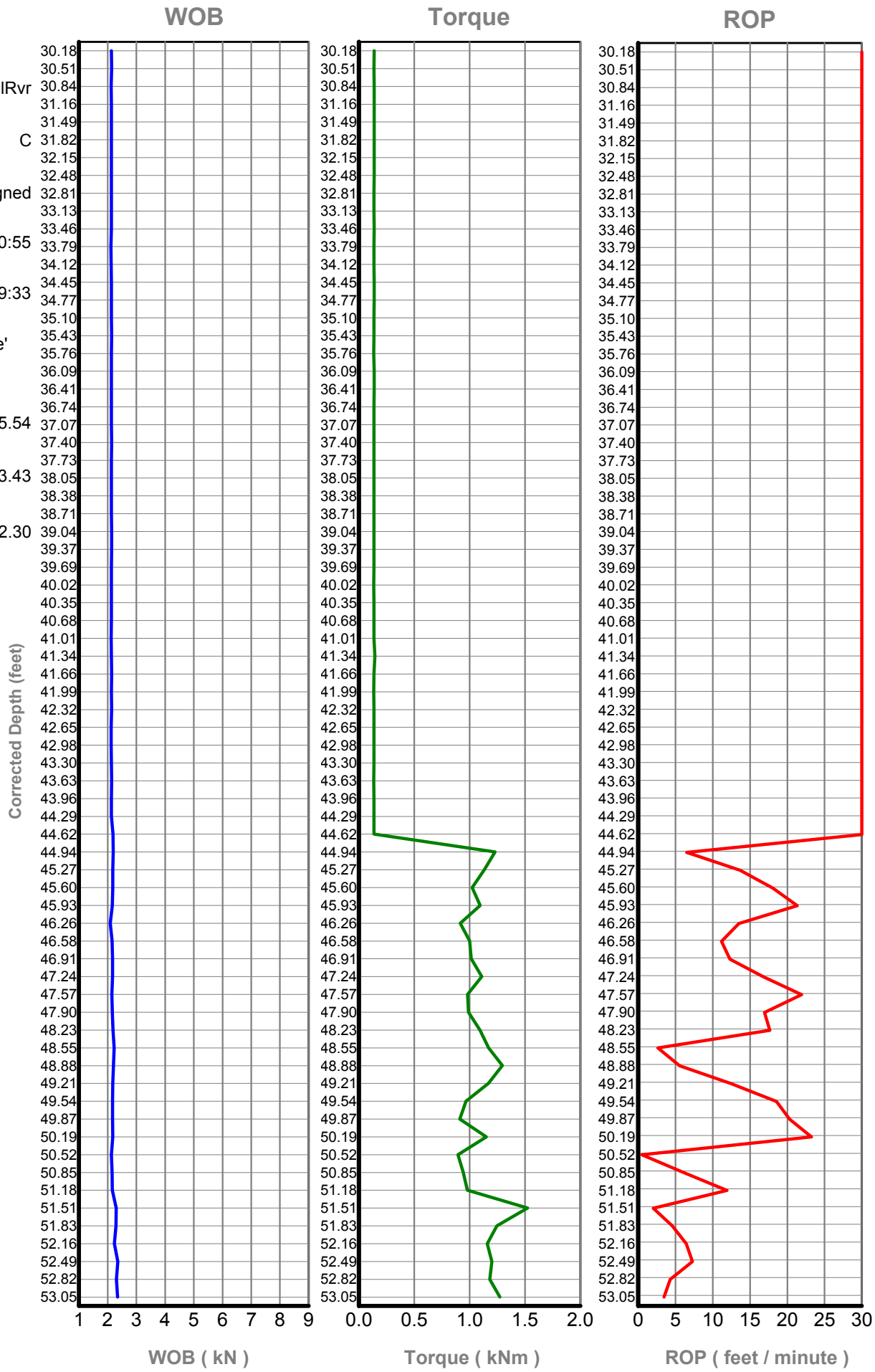
**End Date:**
4/17/2015 21:09:33

**Operator Note:**
'2.3 2.2 c Auto Complete'

**Northing:**
371,155.54

**Easting:**
257,903.43

**Tide (feet):**
2.30



## Hole: C40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 22:07:57 | 34.12 | 30.02 | 1,134 | 0.46 | 0.33 | 62.0 |
| 4/17/2015 22:07:58 | 34.45 | 30.35 | 1,131 | 0.46 | 0.33 | 61.8 |
| 4/17/2015 22:07:59 | 34.78 | 30.68 | 1,131 | 0.46 | 0.33 | 61.8 |
| 4/17/2015 22:07:59 | 35.11 | 31.01 | 1,131 | 0.46 | 0.33 | 61.8 |
| 4/17/2015 22:07:59 | 35.43 | 31.33 | 1,137 | 0.45 | 0.33 | 62.2 |
| 4/17/2015 22:08:00 | 35.76 | 31.66 | 1,137 | 0.45 | 0.33 | 62.2 |
| 4/17/2015 22:08:00 | 36.09 | 31.99 | 1,140 | 0.45 | 0.32 | 62.3 |
| 4/17/2015 22:08:00 | 36.42 | 32.32 | 1,140 | 0.45 | 0.32 | 62.3 |
| 4/17/2015 22:08:00 | 36.75 | 32.65 | 1,127 | 0.46 | 0.31 | 61.7 |
| 4/17/2015 22:08:01 | 37.07 | 32.97 | 1,127 | 0.45 | 0.32 | 61.7 |
| 4/17/2015 22:08:01 | 37.40 | 33.30 | 1,127 | 0.45 | 0.32 | 61.7 |
| 4/17/2015 22:08:01 | 37.73 | 33.63 | 1,121 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:02 | 38.06 | 33.96 | 1,121 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:02 | 38.39 | 34.29 | 1,131 | 0.45 | 0.33 | 61.8 |
| 4/17/2015 22:08:02 | 38.71 | 34.61 | 1,128 | 0.45 | 0.32 | 61.7 |
| 4/17/2015 22:08:03 | 39.04 | 34.94 | 1,128 | 0.45 | 0.32 | 61.7 |
| 4/17/2015 22:08:03 | 39.37 | 35.27 | 1,128 | 0.46 | 0.33 | 61.7 |
| 4/17/2015 22:08:03 | 39.70 | 35.60 | 1,128 | 0.46 | 0.33 | 61.7 |
| 4/17/2015 22:08:03 | 40.03 | 35.93 | 1,121 | 0.45 | 0.34 | 61.3 |
| 4/17/2015 22:08:04 | 40.35 | 36.25 | 1,137 | 0.45 | 0.33 | 62.2 |
| 4/17/2015 22:08:04 | 40.68 | 36.58 | 1,137 | 0.45 | 0.33 | 62.2 |
| 4/17/2015 22:08:04 | 41.01 | 36.91 | 1,125 | 0.46 | 0.33 | 61.5 |
| 4/17/2015 22:08:05 | 41.34 | 37.24 | 1,125 | 0.46 | 0.33 | 61.5 |
| 4/17/2015 22:08:05 | 41.67 | 37.57 | 1,125 | 0.46 | 0.32 | 61.5 |
| 4/17/2015 22:08:05 | 41.99 | 37.89 | 1,125 | 0.46 | 0.31 | 61.5 |
| 4/17/2015 22:08:06 | 42.32 | 38.22 | 1,125 | 0.46 | 0.31 | 61.5 |
| 4/17/2015 22:08:06 | 42.65 | 38.55 | 1,125 | 0.45 | 0.32 | 61.5 |
| 4/17/2015 22:08:06 | 42.98 | 38.88 | 1,115 | 0.45 | 0.33 | 61.0 |
| 4/17/2015 22:08:07 | 43.31 | 39.21 | 1,115 | 0.45 | 0.33 | 61.0 |
| 4/17/2015 22:08:07 | 43.64 | 39.54 | 1,125 | 0.46 | 0.33 | 61.5 |
| 4/17/2015 22:08:07 | 43.96 | 39.86 | 1,125 | 0.46 | 0.33 | 61.5 |
| 4/17/2015 22:08:07 | 44.29 | 40.19 | 1,115 | 0.46 | 0.32 | 61.0 |
| 4/17/2015 22:08:08 | 44.62 | 40.52 | 1,127 | 0.46 | 0.33 | 61.7 |
| 4/17/2015 22:08:09 | 44.95 | 40.85 | 1,127 | 0.46 | 0.33 | 61.7 |
| 4/17/2015 22:08:08 | 45.28 | 41.18 | 1,125 | 0.45 | 0.32 | 61.5 |
| 4/17/2015 22:08:09 | 45.60 | 41.50 | 1,125 | 0.45 | 0.32 | 61.5 |
| 4/17/2015 22:08:09 | 45.93 | 41.83 | 1,132 | 0.45 | 0.33 | 61.9 |
| 4/17/2015 22:08:10 | 46.26 | 42.16 | 1,122 | 0.47 | 0.32 | 61.3 |
| 4/17/2015 22:08:10 | 46.59 | 42.49 | 1,122 | 0.47 | 0.32 | 61.3 |
| 4/17/2015 22:08:10 | 46.92 | 42.82 | 1,128 | 0.46 | 0.32 | 61.7 |
| 4/17/2015 22:08:11 | 47.24 | 43.14 | 1,128 | 0.46 | 0.32 | 61.7 |
| 4/17/2015 22:08:11 | 47.57 | 43.47 | 1,122 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:11 | 47.90 | 43.80 | 1,122 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:12 | 48.23 | 44.13 | 1,122 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:12 | 48.56 | 44.46 | 1,112 | 0.46 | 0.33 | 60.8 |
| 4/17/2015 22:08:12 | 48.88 | 44.78 | 1,125 | 0.45 | 0.33 | 61.5 |
| 4/17/2015 22:08:13 | 49.21 | 45.11 | 1,125 | 0.45 | 0.33 | 61.5 |
| 4/17/2015 22:08:13 | 49.54 | 45.44 | 1,119 | 0.46 | 0.32 | 61.2 |
| 4/17/2015 22:08:13 | 49.87 | 45.77 | 1,119 | 0.46 | 0.32 | 61.2 |
| 4/17/2015 22:08:13 | 50.20 | 46.10 | 1,119 | 0.46 | 0.33 | 61.2 |
| 4/17/2015 22:08:14 | 50.53 | 46.43 | 1,119 | 0.45 | 0.33 | 61.2 |
| 4/17/2015 22:08:14 | 50.85 | 46.75 | 1,119 | 0.45 | 0.33 | 61.2 |
| 4/17/2015 22:08:14 | 51.18 | 47.08 | 1,122 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:15 | 51.51 | 47.41 | 1,122 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 22:08:54 | 51.84 | 47.74 | 0 | 3.09 | 0.45 | 0.0 |
| 4/17/2015 22:08:55 | 52.17 | 48.07 | 124 | 2.96 | 0.42 | 6.8 |
| 4/17/2015 22:08:57 | 52.49 | 48.39 | 200 | 4.43 | 0.56 | 10.9 |
| 4/17/2015 22:08:59 | 52.82 | 48.72 | 176 | 3.89 | 0.50 | 9.6 |
| 4/17/2015 22:09:16 | 53.15 | 49.05 | 12 | 4.70 | 0.53 | 0.6 |
| 4/17/2015 22:09:19 | 53.48 | 49.38 | 88 | 4.49 | 0.42 | 4.8 |
| 4/17/2015 22:09:22 | 53.81 | 49.71 | 177 | 5.76 | 0.49 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 22:09:24 | 54.13 | 50.03 | 114 | 5.58 | 0.41 | 6.3 |
| 4/17/2015 | 22:09:25 | 54.46 | 50.36 | 157 | 5.17 | 0.48 | 8.6 |
| 4/17/2015 | 22:09:27 | 54.79 | 50.69 | 244 | 5.55 | 0.43 | 13.4 |
| 4/17/2015 | 22:09:28 | 55.12 | 51.02 | 266 | 4.75 | 0.44 | 14.5 |
| 4/17/2015 | 22:09:29 | 55.45 | 51.35 | 269 | 3.17 | 0.39 | 14.7 |
| 4/17/2015 | 22:09:30 | 55.77 | 51.67 | 332 | 3.96 | 0.47 | 18.1 |
| 4/17/2015 | 22:09:31 | 56.10 | 52.00 | 402 | 3.01 | 0.40 | 22.0 |
| 4/17/2015 | 22:09:31 | 56.43 | 52.33 | 479 | 3.50 | 0.42 | 26.2 |
| 4/17/2015 | 22:09:32 | 56.76 | 52.66 | 479 | 3.36 | 0.47 | 26.2 |
| 4/17/2015 | 22:09:33 | 57.09 | 52.99 | 513 | 3.12 | 0.40 | 28.0 |
| 4/17/2015 | 22:09:34 | 57.41 | 53.31 | 499 | 3.09 | 0.42 | 27.3 |
| 4/17/2015 | 22:09:34 | 57.74 | 53.64 | 499 | 3.43 | 0.43 | 27.3 |
| 4/17/2015 | 22:09:35 | 58.07 | 53.97 | 543 | 3.83 | 0.45 | 29.7 |
| 4/17/2015 | 22:09:36 | 58.40 | 54.30 | 513 | 3.83 | 0.45 | 28.1 |
| 4/17/2015 | 22:09:37 | 58.73 | 54.63 | 453 | 4.09 | 0.47 | 24.8 |
| 4/17/2015 | 22:09:38 | 59.06 | 54.96 | 395 | 5.10 | 0.51 | 21.6 |
| 4/17/2015 | 22:09:39 | 59.22 | 55.12 | 200 | 4.55 | 0.48 | 11.0 |

## C40 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 22:06:17

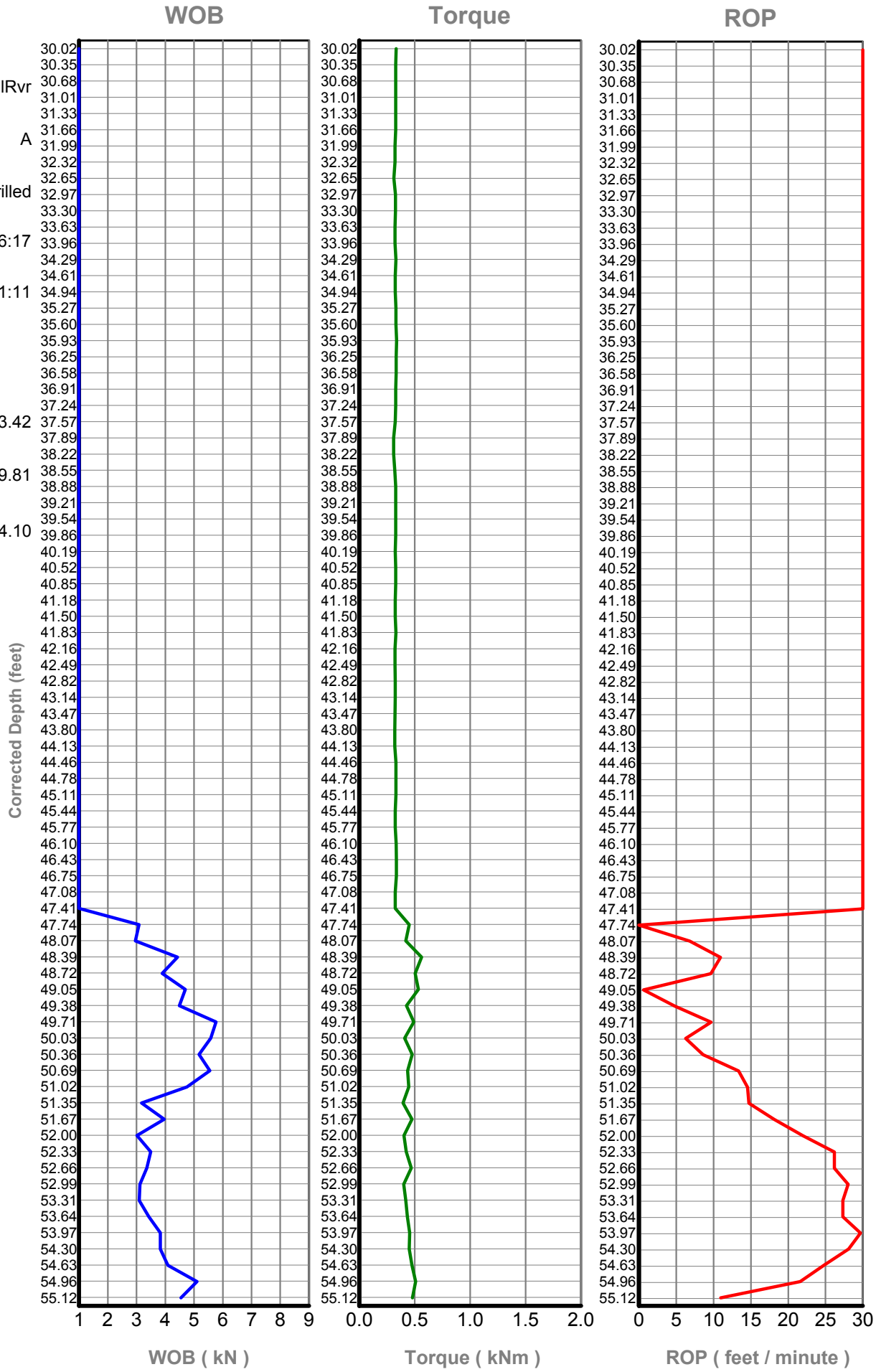
**End Date:**
4/17/2015 22:11:11

**Operator Note:**
'4.1 Auto Complete'

**Northing:**
370,953.42

**Easting:**
257,999.81

**Tide (feet):**
4.10



## Hole: C41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 22:05:03 | 34.12 | 30.12 | 1,047 | 0.16 | 0.34 | 57.3 |
| 4/17/2015 22:05:03 | 34.45 | 30.45 | 1,065 | 0.14 | 0.34 | 58.2 |
| 4/17/2015 22:05:03 | 34.78 | 30.78 | 1,049 | 0.16 | 0.34 | 57.4 |
| 4/17/2015 22:05:04 | 35.11 | 31.11 | 1,049 | 0.16 | 0.34 | 57.4 |
| 4/17/2015 22:05:04 | 35.43 | 31.43 | 1,046 | 0.16 | 0.33 | 57.2 |
| 4/17/2015 22:05:04 | 35.76 | 31.76 | 1,044 | 0.16 | 0.34 | 57.1 |
| 4/17/2015 22:05:05 | 36.09 | 32.09 | 1,044 | 0.16 | 0.34 | 57.1 |
| 4/17/2015 22:05:05 | 36.42 | 32.42 | 1,044 | 0.16 | 0.34 | 57.1 |
| 4/17/2015 22:05:05 | 36.75 | 32.75 | 1,032 | 0.16 | 0.34 | 56.4 |
| 4/17/2015 22:05:06 | 37.07 | 33.07 | 1,032 | 0.16 | 0.34 | 56.4 |
| 4/17/2015 22:05:06 | 37.40 | 33.40 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/17/2015 22:05:07 | 37.73 | 33.73 | 1,035 | 0.16 | 0.34 | 56.6 |
| 4/17/2015 22:05:07 | 38.06 | 34.06 | 1,035 | 0.16 | 0.34 | 56.6 |
| 4/17/2015 22:05:07 | 38.39 | 34.39 | 1,041 | 0.16 | 0.34 | 56.9 |
| 4/17/2015 22:05:08 | 38.71 | 34.71 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 22:05:08 | 39.04 | 35.04 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 22:05:08 | 39.37 | 35.37 | 1,056 | 0.14 | 0.34 | 57.8 |
| 4/17/2015 22:05:09 | 39.70 | 35.70 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/17/2015 22:05:09 | 40.03 | 36.03 | 1,044 | 0.16 | 0.33 | 57.1 |
| 4/17/2015 22:05:09 | 40.35 | 36.35 | 1,047 | 0.16 | 0.34 | 57.2 |
| 4/17/2015 22:05:10 | 40.68 | 36.68 | 1,044 | 0.16 | 0.34 | 57.1 |
| 4/17/2015 22:05:10 | 41.01 | 37.01 | 1,044 | 0.16 | 0.34 | 57.1 |
| 4/17/2015 22:05:10 | 41.34 | 37.34 | 1,035 | 0.16 | 0.34 | 56.6 |
| 4/17/2015 22:05:11 | 41.67 | 37.67 | 1,035 | 0.16 | 0.34 | 56.6 |
| 4/17/2015 22:05:11 | 41.99 | 37.99 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 22:05:11 | 42.32 | 38.32 | 1,048 | 0.16 | 0.33 | 57.3 |
| 4/17/2015 22:05:12 | 42.65 | 38.65 | 1,048 | 0.16 | 0.33 | 57.3 |
| 4/17/2015 22:05:12 | 42.98 | 38.98 | 1,042 | 0.16 | 0.34 | 57.0 |
| 4/17/2015 22:05:12 | 43.31 | 39.31 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 22:05:13 | 43.64 | 39.64 | 1,020 | 0.16 | 0.34 | 55.8 |
| 4/17/2015 22:05:13 | 43.96 | 39.96 | 1,020 | 0.16 | 0.33 | 55.8 |
| 4/17/2015 22:05:13 | 44.29 | 40.29 | 1,054 | 0.14 | 0.34 | 57.6 |
| 4/17/2015 22:05:14 | 44.62 | 40.62 | 1,054 | 0.14 | 0.34 | 57.6 |
| 4/17/2015 22:05:14 | 44.95 | 40.95 | 1,022 | 0.16 | 0.34 | 55.9 |
| 4/17/2015 22:05:14 | 45.28 | 41.28 | 1,028 | 0.16 | 0.34 | 56.2 |
| 4/17/2015 22:05:15 | 45.60 | 41.60 | 1,028 | 0.16 | 0.34 | 56.2 |
| 4/17/2015 22:05:15 | 45.93 | 41.93 | 1,034 | 0.16 | 0.33 | 56.6 |
| 4/17/2015 22:05:15 | 46.26 | 42.26 | 1,056 | 0.16 | 0.34 | 57.8 |
| 4/17/2015 22:05:16 | 46.59 | 42.59 | 1,056 | 0.16 | 0.34 | 57.8 |
| 4/17/2015 22:05:16 | 46.92 | 42.92 | 1,046 | 0.16 | 0.34 | 57.2 |
| 4/17/2015 22:05:17 | 47.24 | 43.24 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 22:05:17 | 47.57 | 43.57 | 1,039 | 0.16 | 0.34 | 56.8 |
| 4/17/2015 22:05:17 | 47.90 | 43.90 | 1,042 | 0.16 | 0.34 | 57.0 |
| 4/17/2015 22:05:18 | 48.23 | 44.23 | 1,042 | 0.16 | 0.34 | 57.0 |
| 4/17/2015 22:05:18 | 48.56 | 44.56 | 1,042 | 0.16 | 0.34 | 57.0 |
| 4/17/2015 22:05:18 | 48.88 | 44.88 | 1,047 | 0.16 | 0.33 | 57.2 |
| 4/17/2015 22:05:19 | 49.21 | 45.21 | 1,047 | 0.16 | 0.33 | 57.2 |
| 4/17/2015 22:05:19 | 49.54 | 45.54 | 1,047 | 0.16 | 0.34 | 57.2 |
| 4/17/2015 22:05:19 | 49.87 | 45.87 | 1,058 | 0.16 | 0.33 | 57.9 |
| 4/17/2015 22:05:20 | 50.20 | 46.20 | 1,058 | 0.16 | 0.33 | 57.9 |
| 4/17/2015 22:05:20 | 50.53 | 46.53 | 1,029 | 0.16 | 0.34 | 56.2 |
| 4/17/2015 22:05:20 | 50.85 | 46.85 | 1,065 | 0.16 | 0.34 | 58.3 |
| 4/17/2015 22:05:21 | 51.18 | 47.18 | 1,065 | 0.16 | 0.34 | 58.3 |
| 4/17/2015 22:05:21 | 51.51 | 47.51 | 1,065 | 0.16 | 0.34 | 58.3 |
| 4/17/2015 22:05:21 | 51.84 | 47.84 | 1,058 | 0.16 | 0.34 | 57.8 |
| 4/17/2015 22:05:22 | 52.17 | 48.17 | 1,058 | 0.16 | 0.34 | 57.8 |
| 4/17/2015 22:05:22 | 52.49 | 48.49 | 1,056 | 0.14 | 0.40 | 57.7 |
| 4/17/2015 22:06:04 | 52.82 | 48.82 | 13 | 2.99 | 0.40 | 0.7 |
| 4/17/2015 22:06:09 | 53.15 | 49.15 | 112 | 3.86 | 0.39 | 6.1 |
| 4/17/2015 22:06:13 | 53.48 | 49.48 | 53 | 4.05 | 0.40 | 2.9 |
| 4/17/2015 22:06:14 | 53.81 | 49.81 | 182 | 3.20 | 0.39 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 22:06:15 | 54.13 | 50.13 | 263 | 3.03 | 0.40 | 14.4 |
| 4/17/2015 | 22:06:16 | 54.46 | 50.46 | 319 | 3.19 | 0.40 | 17.4 |
| 4/17/2015 | 22:06:17 | 54.79 | 50.79 | 365 | 3.30 | 0.39 | 20.0 |
| 4/17/2015 | 22:06:17 | 55.12 | 51.12 | 390 | 3.62 | 0.39 | 21.3 |
| 4/17/2015 | 22:06:19 | 55.45 | 51.45 | 427 | 4.30 | 0.39 | 23.4 |
| 4/17/2015 | 22:06:20 | 55.77 | 51.77 | 414 | 3.16 | 0.42 | 22.6 |
| 4/17/2015 | 22:06:22 | 56.10 | 52.10 | 218 | 3.47 | 0.40 | 11.9 |
| 4/17/2015 | 22:06:24 | 56.43 | 52.43 | 204 | 4.13 | 0.41 | 11.1 |
| 4/17/2015 | 22:06:24 | 56.76 | 52.76 | 261 | 3.21 | 0.39 | 14.3 |
| 4/17/2015 | 22:06:25 | 57.09 | 53.09 | 336 | 4.05 | 0.41 | 18.4 |
| 4/17/2015 | 22:06:26 | 57.41 | 53.41 | 375 | 3.28 | 0.38 | 20.5 |
| 4/17/2015 | 22:06:27 | 57.74 | 53.74 | 412 | 2.19 | 0.38 | 22.5 |
| 4/17/2015 | 22:06:27 | 58.07 | 54.07 | 412 | 2.25 | 0.38 | 22.5 |
| 4/17/2015 | 22:06:28 | 58.40 | 54.40 | 473 | 2.29 | 0.37 | 25.9 |
| 4/17/2015 | 22:06:29 | 58.73 | 54.73 | 521 | 2.22 | 0.38 | 28.5 |
| 4/17/2015 | 22:06:30 | 59.06 | 55.06 | 554 | 2.13 | 0.38 | 30.3 |
| 4/17/2015 | 22:06:30 | 59.38 | 55.38 | 554 | 2.07 | 0.38 | 30.3 |
| 4/17/2015 | 22:06:31 | 59.71 | 55.71 | 505 | 3.25 | 0.42 | 27.6 |
| 4/17/2015 | 22:06:32 | 59.82 | 55.82 | 334 | 2.66 | 0.38 | 18.2 |

## C41 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 22:01:19

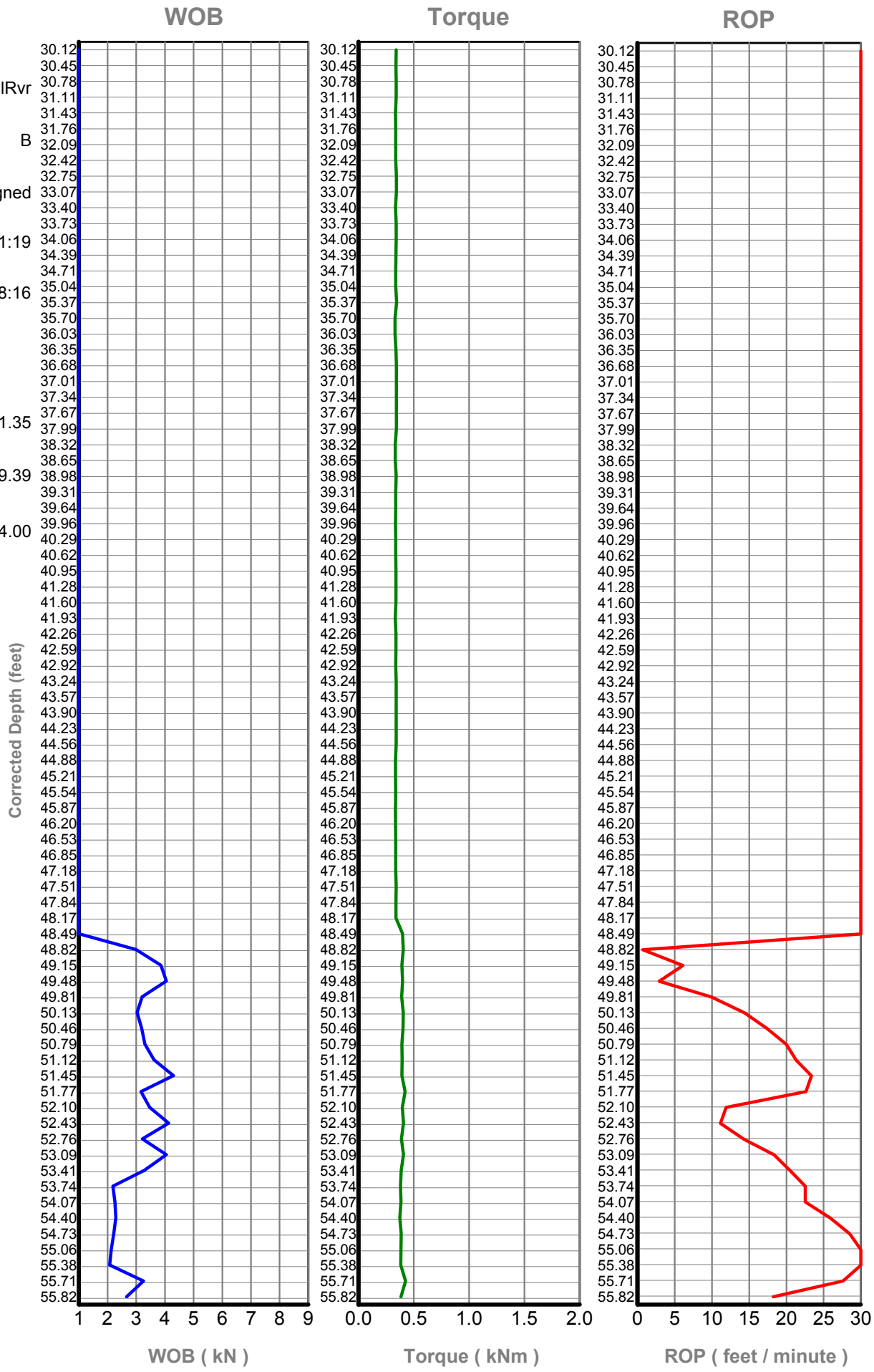
**End Date:**
4/17/2015 22:08:16

**Operator Note:**
'4 4.2 b Auto Complete'

**Northing:**
370,981.35

**Easting:**
258,069.39

**Tide (feet):**
4.00



## Hole: C42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 22:06:49 | 34.12 | 30.02 | 581 | 2.13 | 0.14 | 31.7 |
| 4/17/2015 22:06:49 | 34.45 | 30.35 | 590 | 2.13 | 0.14 | 32.3 |
| 4/17/2015 22:06:50 | 34.78 | 30.68 | 593 | 2.13 | 0.14 | 32.4 |
| 4/17/2015 22:06:51 | 35.11 | 31.01 | 590 | 2.14 | 0.13 | 32.3 |
| 4/17/2015 22:06:51 | 35.43 | 31.33 | 605 | 2.13 | 0.14 | 33.1 |
| 4/17/2015 22:06:52 | 35.76 | 31.66 | 598 | 2.14 | 0.14 | 32.7 |
| 4/17/2015 22:06:52 | 36.09 | 31.99 | 596 | 2.13 | 0.14 | 32.6 |
| 4/17/2015 22:06:53 | 36.42 | 32.32 | 596 | 2.14 | 0.13 | 32.6 |
| 4/17/2015 22:06:54 | 36.75 | 32.65 | 599 | 2.12 | 0.14 | 32.8 |
| 4/17/2015 22:06:54 | 37.07 | 32.97 | 593 | 2.13 | 0.13 | 32.4 |
| 4/17/2015 22:06:55 | 37.40 | 33.30 | 593 | 2.13 | 0.14 | 32.4 |
| 4/17/2015 22:06:55 | 37.73 | 33.63 | 591 | 2.13 | 0.13 | 32.3 |
| 4/17/2015 22:06:56 | 38.06 | 33.96 | 599 | 2.13 | 0.13 | 32.7 |
| 4/17/2015 22:06:56 | 38.39 | 34.29 | 592 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:06:57 | 38.71 | 34.61 | 596 | 2.13 | 0.13 | 32.6 |
| 4/17/2015 22:06:58 | 39.04 | 34.94 | 603 | 2.13 | 0.13 | 33.0 |
| 4/17/2015 22:06:58 | 39.37 | 35.27 | 595 | 2.13 | 0.13 | 32.6 |
| 4/17/2015 22:06:59 | 39.70 | 35.60 | 599 | 2.12 | 0.13 | 32.8 |
| 4/17/2015 22:07:00 | 40.03 | 35.93 | 595 | 2.13 | 0.13 | 32.6 |
| 4/17/2015 22:07:00 | 40.35 | 36.25 | 595 | 2.13 | 0.14 | 32.6 |
| 4/17/2015 22:07:01 | 40.68 | 36.58 | 589 | 2.14 | 0.13 | 32.2 |
| 4/17/2015 22:07:02 | 41.01 | 36.91 | 586 | 1.99 | 0.13 | 32.0 |
| 4/17/2015 22:07:02 | 41.34 | 37.24 | 586 | 2.14 | 0.13 | 32.0 |
| 4/17/2015 22:07:03 | 41.67 | 37.57 | 593 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:07:03 | 41.99 | 37.89 | 593 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:07:04 | 42.32 | 38.22 | 597 | 2.14 | 0.13 | 32.6 |
| 4/17/2015 22:07:04 | 42.65 | 38.55 | 589 | 2.13 | 0.13 | 32.2 |
| 4/17/2015 22:07:05 | 42.98 | 38.88 | 600 | 2.12 | 0.13 | 32.8 |
| 4/17/2015 22:07:06 | 43.31 | 39.21 | 583 | 2.14 | 0.13 | 31.9 |
| 4/17/2015 22:07:06 | 43.64 | 39.54 | 583 | 2.13 | 0.13 | 31.9 |
| 4/17/2015 22:07:07 | 43.96 | 39.86 | 588 | 2.14 | 0.13 | 32.1 |
| 4/17/2015 22:07:07 | 44.29 | 40.19 | 592 | 2.13 | 0.13 | 32.4 |
| 4/17/2015 22:07:08 | 44.62 | 40.52 | 588 | 2.14 | 0.13 | 32.2 |
| 4/17/2015 22:07:08 | 44.95 | 40.85 | 588 | 2.13 | 0.13 | 32.1 |
| 4/17/2015 22:07:10 | 45.28 | 41.18 | 593 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:07:10 | 45.60 | 41.50 | 586 | 2.14 | 0.13 | 32.1 |
| 4/17/2015 22:07:11 | 45.93 | 41.83 | 593 | 2.12 | 0.13 | 32.4 |
| 4/17/2015 22:07:11 | 46.26 | 42.16 | 590 | 2.14 | 0.13 | 32.3 |
| 4/17/2015 22:07:12 | 46.59 | 42.49 | 590 | 2.14 | 0.13 | 32.3 |
| 4/17/2015 22:07:12 | 46.92 | 42.82 | 590 | 2.14 | 0.13 | 32.3 |
| 4/17/2015 22:07:13 | 47.24 | 43.14 | 590 | 2.13 | 0.13 | 32.3 |
| 4/17/2015 22:07:14 | 47.57 | 43.47 | 593 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:07:14 | 47.90 | 43.80 | 589 | 2.13 | 0.13 | 32.2 |
| 4/17/2015 22:07:15 | 48.23 | 44.13 | 593 | 2.14 | 0.13 | 32.4 |
| 4/17/2015 22:07:15 | 48.56 | 44.46 | 593 | 2.13 | 0.13 | 32.4 |
| 4/17/2015 22:07:16 | 48.88 | 44.78 | 590 | 2.13 | 0.13 | 32.2 |
| 4/17/2015 22:07:16 | 49.21 | 45.11 | 590 | 2.12 | 0.13 | 32.2 |
| 4/17/2015 22:07:17 | 49.54 | 45.44 | 580 | 2.14 | 0.13 | 31.7 |
| 4/17/2015 22:07:18 | 49.87 | 45.77 | 584 | 2.14 | 0.13 | 32.0 |
| 4/17/2015 22:07:18 | 50.20 | 46.10 | 584 | 2.14 | 0.13 | 32.0 |
| 4/17/2015 22:07:19 | 50.53 | 46.43 | 584 | 2.13 | 0.13 | 31.9 |
| 4/17/2015 22:07:19 | 50.85 | 46.75 | 584 | 2.13 | 0.14 | 31.9 |
| 4/17/2015 22:07:20 | 51.18 | 47.08 | 597 | 2.14 | 0.13 | 32.6 |
| 4/17/2015 22:07:43 | 51.51 | 47.41 | 0 | 2.29 | 1.54 | 0.0 |
| 4/17/2015 22:07:44 | 51.84 | 47.74 | 99 | 2.23 | 1.21 | 5.4 |
| 4/17/2015 22:07:46 | 52.17 | 48.07 | 243 | 2.22 | 1.31 | 13.3 |
| 4/17/2015 22:07:52 | 52.49 | 48.39 | 0 | 2.15 | 1.07 | 0.0 |
| 4/17/2015 22:07:52 | 52.82 | 48.72 | 78 | 2.18 | 1.09 | 4.2 |
| 4/17/2015 22:07:53 | 53.15 | 49.05 | 161 | 2.21 | 1.17 | 8.8 |
| 4/17/2015 22:07:54 | 53.48 | 49.38 | 301 | 2.13 | 1.07 | 16.4 |
| 4/17/2015 22:07:55 | 53.81 | 49.71 | 398 | 2.16 | 1.09 | 21.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 22:07:56 | 54.13 | 50.03 | 437 | 2.16 | 0.96 | 23.9 |
| 4/17/2015 | 22:07:56 | 54.46 | 50.36 | 468 | 2.18 | 0.96 | 25.6 |
| 4/17/2015 | 22:07:57 | 54.79 | 50.69 | 486 | 2.23 | 1.20 | 26.6 |
| 4/17/2015 | 22:07:58 | 55.12 | 51.02 | 414 | 2.18 | 1.03 | 22.6 |
| 4/17/2015 | 22:07:59 | 55.45 | 51.35 | 408 | 2.16 | 0.93 | 22.3 |
| 4/17/2015 | 22:07:59 | 55.77 | 51.67 | 408 | 2.16 | 0.94 | 22.3 |
| 4/17/2015 | 22:08:00 | 56.10 | 52.00 | 461 | 2.17 | 0.91 | 25.2 |
| 4/17/2015 | 22:08:01 | 56.43 | 52.33 | 497 | 2.16 | 0.90 | 27.2 |
| 4/17/2015 | 22:08:02 | 56.76 | 52.66 | 506 | 2.16 | 0.89 | 27.7 |
| 4/17/2015 | 22:08:03 | 57.09 | 52.99 | 518 | 2.18 | 1.03 | 28.3 |
| 4/17/2015 | 22:08:04 | 57.41 | 53.31 | 477 | 2.21 | 1.09 | 26.1 |
| 4/17/2015 | 22:08:05 | 57.74 | 53.64 | 387 | 2.23 | 1.19 | 21.1 |
| 4/17/2015 | 22:08:06 | 58.07 | 53.97 | 330 | 2.24 | 1.22 | 18.0 |
| 4/17/2015 | 22:08:07 | 58.40 | 54.30 | 305 | 2.19 | 1.08 | 16.7 |
| 4/17/2015 | 22:08:08 | 58.73 | 54.63 | 314 | 2.17 | 0.96 | 17.2 |
| 4/17/2015 | 22:08:08 | 59.06 | 54.96 | 351 | 2.17 | 0.91 | 19.2 |
| 4/17/2015 | 22:08:09 | 59.38 | 55.28 | 398 | 2.17 | 0.88 | 21.7 |
| 4/17/2015 | 22:08:10 | 59.71 | 55.61 | 454 | 1.58 | 0.87 | 24.8 |
| 4/17/2015 | 22:08:12 | 59.76 | 55.66 | 257 | 1.74 | 0.87 | 14.0 |

## C42 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 22:04:31

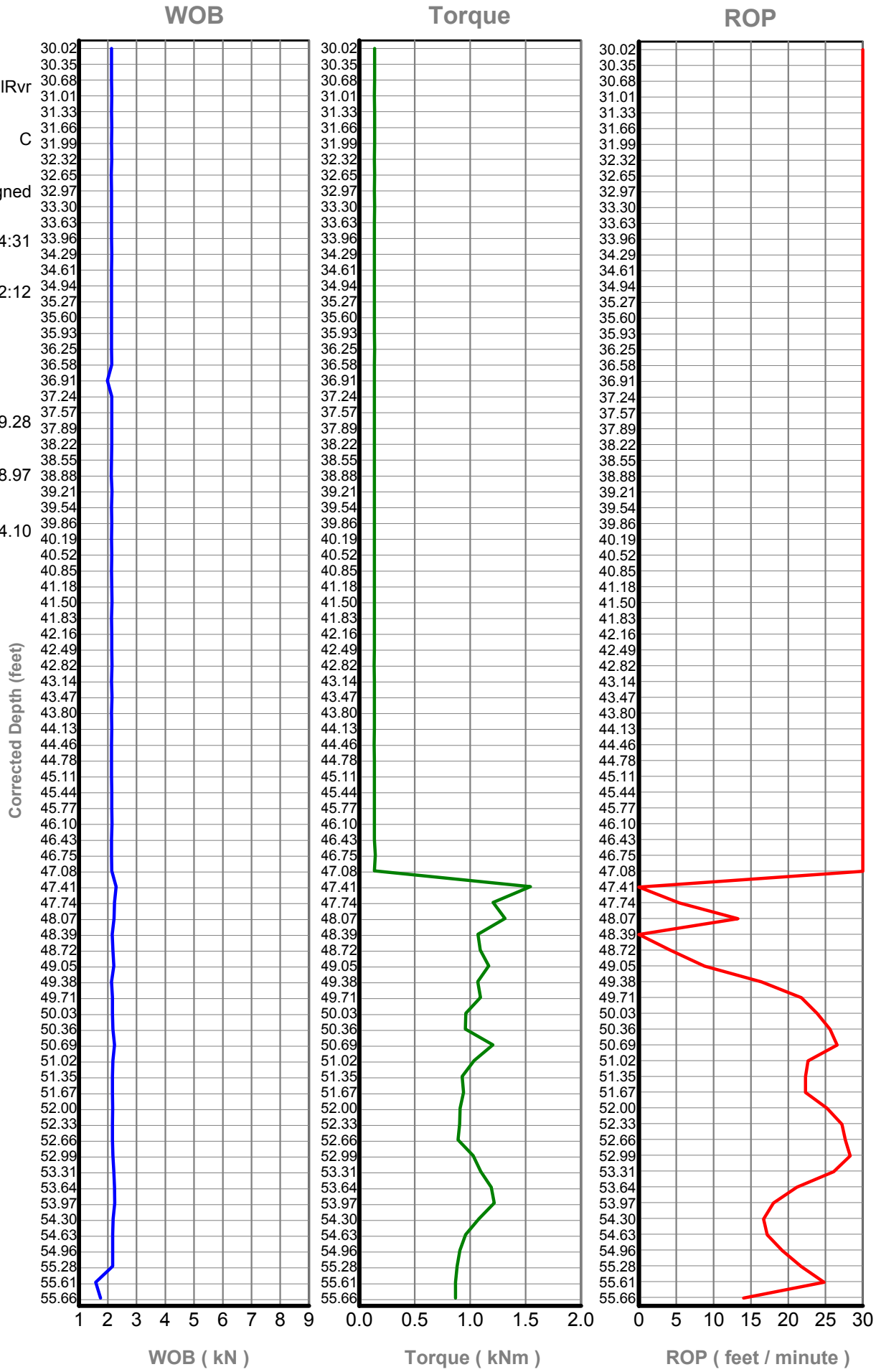
**End Date:**
4/17/2015 22:12:12

**Operator Note:**
'4.1 4.21 c Auto Complete'

**Northing:**
371,009.28

**Easting:**
258,138.97

**Tide (feet):**
4.10



## Hole: C43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:06:00 | 31.17 | 30.07 | 1,089 | 0.46 | 0.32 | 59.6 |
| 4/17/2015 18:06:00 | 31.50 | 30.40 | 1,089 | 0.50 | 0.33 | 59.6 |
| 4/17/2015 18:06:01 | 31.82 | 30.72 | 1,091 | 0.46 | 0.33 | 59.7 |
| 4/17/2015 18:06:01 | 32.15 | 31.05 | 1,091 | 0.46 | 0.33 | 59.7 |
| 4/17/2015 18:06:01 | 32.48 | 31.38 | 1,063 | 0.47 | 0.32 | 58.1 |
| 4/17/2015 18:06:01 | 32.81 | 31.71 | 1,063 | 0.47 | 0.32 | 58.1 |
| 4/17/2015 18:06:01 | 33.14 | 32.04 | 1,063 | 0.47 | 0.33 | 58.1 |
| 4/17/2015 18:06:02 | 33.46 | 32.36 | 1,098 | 0.47 | 0.31 | 60.1 |
| 4/17/2015 18:06:03 | 33.79 | 32.69 | 1,098 | 0.47 | 0.31 | 60.1 |
| 4/17/2015 18:06:03 | 34.12 | 33.02 | 1,070 | 0.46 | 0.32 | 58.5 |
| 4/17/2015 18:06:03 | 34.45 | 33.35 | 1,070 | 0.47 | 0.32 | 58.5 |
| 4/17/2015 18:06:04 | 34.78 | 33.68 | 1,070 | 0.47 | 0.32 | 58.5 |
| 4/17/2015 18:06:04 | 35.11 | 34.01 | 1,062 | 0.47 | 0.32 | 58.1 |
| 4/17/2015 18:06:04 | 35.43 | 34.33 | 1,062 | 0.47 | 0.32 | 58.1 |
| 4/17/2015 18:06:04 | 35.76 | 34.66 | 1,060 | 0.47 | 0.32 | 58.0 |
| 4/17/2015 18:06:05 | 36.09 | 34.99 | 1,095 | 0.47 | 0.32 | 59.9 |
| 4/17/2015 18:06:05 | 36.42 | 35.32 | 1,095 | 0.47 | 0.32 | 59.9 |
| 4/17/2015 18:06:05 | 36.75 | 35.65 | 1,083 | 0.52 | 0.32 | 59.2 |
| 4/17/2015 18:06:06 | 37.07 | 35.97 | 1,083 | 0.46 | 0.32 | 59.2 |
| 4/17/2015 18:06:06 | 37.40 | 36.30 | 1,083 | 0.46 | 0.32 | 59.2 |
| 4/17/2015 18:06:06 | 37.73 | 36.63 | 1,109 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 18:06:07 | 38.06 | 36.96 | 1,109 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 18:06:07 | 38.39 | 37.29 | 1,109 | 0.47 | 0.32 | 60.6 |
| 4/17/2015 18:06:07 | 38.71 | 37.61 | 1,125 | 0.47 | 0.32 | 61.5 |
| 4/17/2015 18:06:08 | 39.04 | 37.94 | 1,125 | 0.47 | 0.32 | 61.5 |
| 4/17/2015 18:06:08 | 39.37 | 38.27 | 1,109 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 18:06:08 | 39.70 | 38.60 | 1,109 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 18:06:09 | 40.03 | 38.93 | 1,109 | 0.46 | 0.32 | 60.6 |
| 4/17/2015 18:06:09 | 40.35 | 39.25 | 1,099 | 0.47 | 0.32 | 60.1 |
| 4/17/2015 18:06:09 | 40.68 | 39.58 | 1,099 | 0.47 | 0.32 | 60.1 |
| 4/17/2015 18:06:09 | 41.01 | 39.91 | 1,102 | 0.46 | 0.32 | 60.2 |
| 4/17/2015 18:06:10 | 41.34 | 40.24 | 1,120 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 18:06:11 | 41.67 | 40.57 | 1,120 | 0.46 | 0.32 | 61.3 |
| 4/17/2015 18:06:10 | 41.99 | 40.89 | 1,080 | 0.46 | 0.32 | 59.1 |
| 4/17/2015 18:06:11 | 42.32 | 41.22 | 1,080 | 0.46 | 0.32 | 59.1 |
| 4/17/2015 18:06:12 | 42.65 | 41.55 | 1,080 | 0.46 | 0.32 | 59.1 |
| 4/17/2015 18:06:11 | 42.98 | 41.88 | 1,094 | 0.46 | 0.35 | 59.8 |
| 4/17/2015 18:06:12 | 43.31 | 42.21 | 1,094 | 0.45 | 0.35 | 59.8 |
| 4/17/2015 18:06:13 | 43.64 | 42.54 | 1,094 | 0.45 | 0.35 | 59.8 |
| 4/17/2015 18:06:13 | 43.96 | 42.86 | 1,049 | 0.46 | 0.32 | 57.3 |
| 4/17/2015 18:06:14 | 44.29 | 43.19 | 1,049 | 0.46 | 0.32 | 57.3 |
| 4/17/2015 18:06:14 | 44.62 | 43.52 | 960 | 0.51 | 0.32 | 52.5 |
| 4/17/2015 18:06:14 | 44.95 | 43.85 | 960 | 0.46 | 0.33 | 52.5 |
| 4/17/2015 18:06:15 | 45.28 | 44.18 | 921 | 0.46 | 0.32 | 50.3 |
| 4/17/2015 18:06:15 | 45.60 | 44.50 | 903 | 0.46 | 0.33 | 49.4 |
| 4/17/2015 18:06:16 | 45.93 | 44.83 | 903 | 0.46 | 0.33 | 49.4 |
| 4/17/2015 18:06:16 | 46.26 | 45.16 | 859 | 0.46 | 0.32 | 47.0 |
| 4/17/2015 18:06:16 | 46.59 | 45.49 | 873 | 0.46 | 0.33 | 47.7 |
| 4/17/2015 18:06:17 | 46.92 | 45.82 | 908 | 0.46 | 0.33 | 49.7 |
| 4/17/2015 18:06:17 | 47.24 | 46.14 | 908 | 0.46 | 0.33 | 49.7 |
| 4/17/2015 18:06:17 | 47.57 | 46.47 | 896 | 0.46 | 0.33 | 49.0 |
| 4/17/2015 18:06:18 | 47.90 | 46.80 | 896 | 0.48 | 0.45 | 49.0 |
| 4/17/2015 18:06:19 | 48.23 | 47.13 | 896 | 0.48 | 0.45 | 49.0 |
| 4/17/2015 18:06:34 | 48.56 | 47.46 | 38 | 2.90 | 0.46 | 2.1 |
| 4/17/2015 18:06:37 | 48.88 | 47.78 | 112 | 4.24 | 0.49 | 6.1 |
| 4/17/2015 18:06:39 | 49.21 | 48.11 | 184 | 3.15 | 0.47 | 10.0 |
| 4/17/2015 18:06:42 | 49.54 | 48.44 | 121 | 4.57 | 0.51 | 6.6 |
| 4/17/2015 18:06:45 | 49.87 | 48.77 | 132 | 4.65 | 0.50 | 7.2 |
| 4/17/2015 18:06:51 | 50.20 | 49.10 | 49 | 3.96 | 0.41 | 2.7 |
| 4/17/2015 18:06:52 | 50.53 | 49.43 | 159 | 3.68 | 0.39 | 8.7 |
| 4/17/2015 18:06:55 | 50.85 | 49.75 | 160 | 5.23 | 0.38 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 18:06:57 | 51.18 | 50.08 | 163 | 3.80 | 0.40 | 8.9 |
| 4/17/2015 | 18:06:59 | 51.51 | 50.41 | 153 | 3.71 | 0.41 | 8.4 |
| 4/17/2015 | 18:07:01 | 51.84 | 50.74 | 174 | 3.79 | 0.40 | 9.5 |
| 4/17/2015 | 18:07:05 | 52.17 | 51.07 | 116 | 3.51 | 0.37 | 6.3 |
| 4/17/2015 | 18:07:09 | 52.49 | 51.39 | 88 | 4.69 | 0.40 | 4.8 |
| 4/17/2015 | 18:07:14 | 52.82 | 51.72 | 53 | 3.97 | 0.37 | 2.9 |
| 4/17/2015 | 18:07:23 | 53.15 | 52.05 | 40 | 3.31 | 0.38 | 2.2 |
| 4/17/2015 | 18:07:31 | 53.48 | 52.38 | 49 | 3.26 | 0.38 | 2.7 |
| 4/17/2015 | 18:07:39 | 53.78 | 52.68 | 48 | 2.97 | 0.23 | 2.6 |

## C43 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:04:35

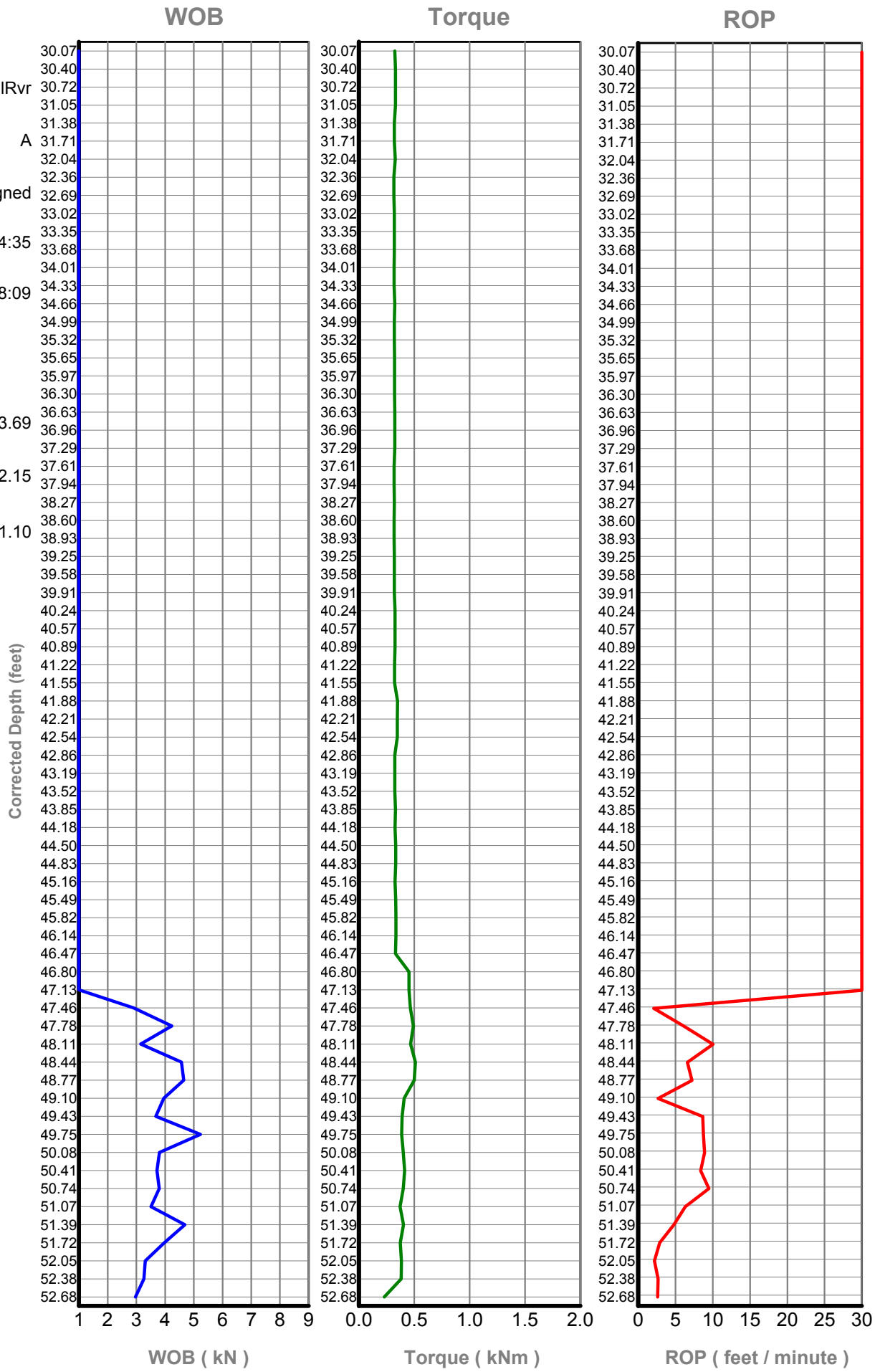
**End Date:**
4/17/2015 18:08:09

**Operator Note:**
'1.1 Auto Complete'

**Northing:**
371,043.69

**Easting:**
258,192.15

**Tide (feet):**
1.10



## Hole: C44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:04:08 | 31.17 | 30.07 | 1,018 | 0.34 | 0.34 | 55.6 |
| 4/17/2015 18:04:09 | 31.50 | 30.40 | 1,018 | 0.34 | 0.34 | 55.6 |
| 4/17/2015 18:04:09 | 31.82 | 30.72 | 1,012 | 0.33 | 0.34 | 55.3 |
| 4/17/2015 18:04:10 | 32.15 | 31.05 | 1,009 | 0.33 | 0.34 | 55.2 |
| 4/17/2015 18:04:10 | 32.48 | 31.38 | 1,009 | 0.33 | 0.34 | 55.2 |
| 4/17/2015 18:04:10 | 32.81 | 31.71 | 1,012 | 0.35 | 0.35 | 55.3 |
| 4/17/2015 18:04:11 | 33.14 | 32.04 | 1,006 | 0.33 | 0.34 | 55.0 |
| 4/17/2015 18:04:11 | 33.46 | 32.36 | 1,006 | 0.33 | 0.34 | 55.0 |
| 4/17/2015 18:04:12 | 33.79 | 32.69 | 1,006 | 0.33 | 0.34 | 55.0 |
| 4/17/2015 18:04:12 | 34.12 | 33.02 | 997 | 0.34 | 0.34 | 54.5 |
| 4/17/2015 18:04:12 | 34.45 | 33.35 | 1,010 | 0.34 | 0.34 | 55.2 |
| 4/17/2015 18:04:13 | 34.78 | 33.68 | 1,010 | 0.34 | 0.34 | 55.2 |
| 4/17/2015 18:04:13 | 35.11 | 34.01 | 998 | 0.33 | 0.34 | 54.6 |
| 4/17/2015 18:04:13 | 35.43 | 34.33 | 1,001 | 0.33 | 0.34 | 54.7 |
| 4/17/2015 18:04:14 | 35.76 | 34.66 | 1,001 | 0.33 | 0.34 | 54.7 |
| 4/17/2015 18:04:14 | 36.09 | 34.99 | 1,001 | 0.33 | 0.34 | 54.7 |
| 4/17/2015 18:04:14 | 36.42 | 35.32 | 1,013 | 0.33 | 0.34 | 55.4 |
| 4/17/2015 18:04:15 | 36.75 | 35.65 | 1,013 | 0.33 | 0.34 | 55.4 |
| 4/17/2015 18:04:15 | 37.07 | 35.97 | 995 | 0.33 | 0.34 | 54.4 |
| 4/17/2015 18:04:15 | 37.40 | 36.30 | 1,000 | 0.34 | 0.35 | 54.7 |
| 4/17/2015 18:04:16 | 37.73 | 36.63 | 1,000 | 0.34 | 0.35 | 54.7 |
| 4/17/2015 18:04:16 | 38.06 | 36.96 | 991 | 0.33 | 0.34 | 54.2 |
| 4/17/2015 18:04:16 | 38.39 | 37.29 | 1,000 | 0.33 | 0.35 | 54.7 |
| 4/17/2015 18:04:17 | 38.71 | 37.61 | 1,000 | 0.33 | 0.35 | 54.7 |
| 4/17/2015 18:04:17 | 39.04 | 37.94 | 991 | 0.33 | 0.34 | 54.2 |
| 4/17/2015 18:04:17 | 39.37 | 38.27 | 1,000 | 0.33 | 0.34 | 54.7 |
| 4/17/2015 18:04:18 | 39.70 | 38.60 | 979 | 0.33 | 0.35 | 53.6 |
| 4/17/2015 18:04:18 | 40.03 | 38.93 | 979 | 0.33 | 0.35 | 53.6 |
| 4/17/2015 18:04:18 | 40.35 | 39.25 | 979 | 0.33 | 0.35 | 53.6 |
| 4/17/2015 18:04:19 | 40.68 | 39.58 | 992 | 0.34 | 0.34 | 54.2 |
| 4/17/2015 18:04:19 | 41.01 | 39.91 | 992 | 0.34 | 0.34 | 54.2 |
| 4/17/2015 18:04:20 | 41.34 | 40.24 | 986 | 0.35 | 0.35 | 53.9 |
| 4/17/2015 18:04:20 | 41.67 | 40.57 | 978 | 0.33 | 0.34 | 53.5 |
| 4/17/2015 18:04:21 | 41.99 | 40.89 | 978 | 0.33 | 0.34 | 53.5 |
| 4/17/2015 18:04:21 | 42.32 | 41.22 | 987 | 0.13 | 0.34 | 54.0 |
| 4/17/2015 18:04:21 | 42.65 | 41.55 | 1,011 | 0.33 | 0.35 | 55.3 |
| 4/17/2015 18:04:22 | 42.98 | 41.88 | 1,011 | 0.33 | 0.35 | 55.3 |
| 4/17/2015 18:04:22 | 43.31 | 42.21 | 999 | 0.34 | 0.34 | 54.6 |
| 4/17/2015 18:04:22 | 43.64 | 42.54 | 998 | 0.33 | 0.34 | 54.6 |
| 4/17/2015 18:04:23 | 43.96 | 42.86 | 998 | 0.33 | 0.34 | 54.6 |
| 4/17/2015 18:04:23 | 44.29 | 43.19 | 985 | 0.33 | 0.34 | 53.9 |
| 4/17/2015 18:04:23 | 44.62 | 43.52 | 985 | 0.33 | 0.35 | 53.9 |
| 4/17/2015 18:04:24 | 44.95 | 43.85 | 973 | 0.33 | 0.35 | 53.2 |
| 4/17/2015 18:04:24 | 45.28 | 44.18 | 973 | 0.33 | 0.35 | 53.2 |
| 4/17/2015 18:04:24 | 45.60 | 44.50 | 961 | 0.34 | 0.34 | 52.5 |
| 4/17/2015 18:04:25 | 45.93 | 44.83 | 961 | 0.34 | 0.34 | 52.5 |
| 4/17/2015 18:04:25 | 46.26 | 45.16 | 961 | 0.34 | 0.34 | 52.5 |
| 4/17/2015 18:04:25 | 46.59 | 45.49 | 978 | 0.33 | 0.34 | 53.5 |
| 4/17/2015 18:04:26 | 46.92 | 45.82 | 978 | 0.33 | 0.43 | 53.5 |
| 4/17/2015 18:04:26 | 47.24 | 46.14 | 978 | 0.33 | 0.43 | 53.5 |
| 4/17/2015 18:04:26 | 47.57 | 46.47 | 970 | 0.33 | 0.34 | 53.0 |
| 4/17/2015 18:04:27 | 47.90 | 46.80 | 1,010 | 0.34 | 0.34 | 55.2 |
| 4/17/2015 18:04:27 | 48.23 | 47.13 | 1,010 | 0.34 | 0.34 | 55.2 |
| 4/17/2015 18:04:54 | 48.56 | 47.46 | 23 | 4.54 | 0.42 | 1.3 |
| 4/17/2015 18:04:58 | 48.88 | 47.78 | 94 | 3.92 | 0.40 | 5.2 |
| 4/17/2015 18:05:00 | 49.21 | 48.11 | 161 | 4.07 | 0.42 | 8.8 |
| 4/17/2015 18:05:10 | 49.54 | 48.44 | 77 | 3.65 | 0.42 | 4.2 |
| 4/17/2015 18:05:14 | 49.87 | 48.77 | 72 | 3.71 | 0.42 | 3.9 |
| 4/17/2015 18:05:25 | 50.20 | 49.10 | 29 | 4.95 | 0.42 | 1.6 |
| 4/17/2015 18:05:34 | 50.53 | 49.43 | 40 | 3.91 | 0.42 | 2.2 |
| 4/17/2015 18:05:38 | 50.85 | 49.75 | 75 | 3.59 | 0.41 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 18:05:43 | 51.18 | 50.08 | 69 | 4.64 | 0.42 | 3.8 |
| 4/17/2015 | 18:05:49 | 51.51 | 50.41 | 64 | 3.72 | 0.43 | 3.5 |
| 4/17/2015 | 18:05:55 | 51.84 | 50.74 | 49 | 3.37 | 0.42 | 2.7 |
| 4/17/2015 | 18:06:03 | 52.17 | 51.07 | 43 | 3.81 | 0.43 | 2.4 |
| 4/17/2015 | 18:06:11 | 52.49 | 51.39 | 49 | 4.18 | 0.43 | 2.7 |

## C44 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:02:23

**End Date:**
4/17/2015 18:07:46

**Operator Note:**
'1.1 1.5 b Rock @ 51.5'

**Northing:**
371,072.54

**Easting:**
258,261.38

**Tide (feet):**
1.10



## Hole: C45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 18:04:43 | 31.17 | 30.07 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 18:04:44 | 31.50 | 30.40 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 18:04:45 | 31.82 | 30.72 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 18:04:46 | 32.15 | 31.05 | 616 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 18:04:46 | 32.48 | 31.38 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 18:04:47 | 32.81 | 31.71 | 616 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 18:04:47 | 33.14 | 32.04 | 619 | 2.12 | 0.23 | 33.8 |
| 4/17/2015 18:04:48 | 33.46 | 32.36 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 18:04:48 | 33.79 | 32.69 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 18:04:49 | 34.12 | 33.02 | 612 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 18:04:49 | 34.45 | 33.35 | 616 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 18:04:50 | 34.78 | 33.68 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 18:04:51 | 35.11 | 34.01 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:04:51 | 35.43 | 34.33 | 603 | 2.14 | 0.27 | 33.0 |
| 4/17/2015 18:04:52 | 35.76 | 34.66 | 603 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 18:04:52 | 36.09 | 34.99 | 613 | 2.11 | 0.27 | 33.5 |
| 4/17/2015 18:04:53 | 36.42 | 35.32 | 597 | 2.14 | 0.27 | 32.6 |
| 4/17/2015 18:04:53 | 36.75 | 35.65 | 597 | 2.14 | 0.26 | 32.6 |
| 4/17/2015 18:04:54 | 37.07 | 35.97 | 617 | 2.14 | 0.27 | 33.8 |
| 4/17/2015 18:04:55 | 37.40 | 36.30 | 597 | 2.14 | 0.27 | 32.7 |
| 4/17/2015 18:04:56 | 37.73 | 36.63 | 601 | 2.13 | 0.26 | 32.9 |
| 4/17/2015 18:04:56 | 38.06 | 36.96 | 601 | 2.13 | 0.26 | 32.9 |
| 4/17/2015 18:04:57 | 38.39 | 37.29 | 598 | 2.14 | 0.26 | 32.7 |
| 4/17/2015 18:04:57 | 38.71 | 37.61 | 608 | 2.12 | 0.26 | 33.3 |
| 4/17/2015 18:04:58 | 39.04 | 37.94 | 597 | 2.14 | 0.27 | 32.6 |
| 4/17/2015 18:04:58 | 39.37 | 38.27 | 609 | 2.14 | 0.26 | 33.3 |
| 4/17/2015 18:04:59 | 39.70 | 38.60 | 609 | 2.14 | 0.27 | 33.3 |
| 4/17/2015 18:05:00 | 40.03 | 38.93 | 611 | 2.11 | 0.27 | 33.4 |
| 4/17/2015 18:05:00 | 40.35 | 39.25 | 604 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 18:05:01 | 40.68 | 39.58 | 604 | 2.12 | 0.27 | 33.0 |
| 4/17/2015 18:05:01 | 41.01 | 39.91 | 615 | 1.88 | 0.27 | 33.6 |
| 4/17/2015 18:05:02 | 41.34 | 40.24 | 617 | 2.13 | 0.27 | 33.7 |
| 4/17/2015 18:05:02 | 41.67 | 40.57 | 615 | 2.14 | 0.27 | 33.6 |
| 4/17/2015 18:05:03 | 41.99 | 40.89 | 612 | 2.13 | 0.26 | 33.5 |
| 4/17/2015 18:05:03 | 42.32 | 41.22 | 619 | 2.13 | 0.26 | 33.8 |
| 4/17/2015 18:05:04 | 42.65 | 41.55 | 613 | 2.13 | 0.26 | 33.5 |
| 4/17/2015 18:05:05 | 42.98 | 41.88 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 18:05:06 | 43.31 | 42.21 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 18:05:06 | 43.64 | 42.54 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 18:05:07 | 43.96 | 42.86 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 18:05:07 | 44.29 | 43.19 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 18:05:08 | 44.62 | 43.52 | 606 | 2.14 | 0.26 | 33.1 |
| 4/17/2015 18:05:08 | 44.95 | 43.85 | 606 | 2.14 | 0.27 | 33.2 |
| 4/17/2015 18:05:09 | 45.28 | 44.18 | 607 | 2.14 | 0.27 | 33.2 |
| 4/17/2015 18:05:10 | 45.60 | 44.50 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:05:10 | 45.93 | 44.83 | 610 | 2.12 | 0.27 | 33.4 |
| 4/17/2015 18:05:11 | 46.26 | 45.16 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 18:05:11 | 46.59 | 45.49 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 18:05:12 | 46.92 | 45.82 | 603 | 2.13 | 0.26 | 33.0 |
| 4/17/2015 18:05:12 | 47.24 | 46.14 | 606 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:05:13 | 47.57 | 46.47 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 18:05:14 | 47.90 | 46.80 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 18:05:14 | 48.23 | 47.13 | 610 | 2.15 | 0.26 | 33.4 |
| 4/17/2015 18:05:15 | 48.56 | 47.46 | 611 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 18:05:16 | 48.88 | 47.78 | 607 | 2.16 | 0.26 | 33.2 |
| 4/17/2015 18:05:42 | 49.21 | 48.11 | 20 | 2.23 | 1.14 | 1.1 |
| 4/17/2015 18:05:44 | 49.54 | 48.44 | 158 | 2.27 | 1.18 | 8.7 |
| 4/17/2015 18:05:51 | 49.87 | 48.77 | 41 | 2.29 | 0.99 | 2.2 |
| 4/17/2015 18:05:53 | 50.20 | 49.10 | 177 | 2.31 | 1.18 | 9.7 |
| 4/17/2015 18:05:55 | 50.53 | 49.43 | 176 | 2.30 | 1.20 | 9.6 |
| 4/17/2015 18:05:57 | 50.85 | 49.75 | 176 | 2.33 | 1.21 | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 18:06:01 | 51.18 | 50.08 | 107 | 2.33 | 1.24 | 5.8 |
| 4/17/2015 | 18:06:03 | 51.51 | 50.41 | 126 | 2.33 | 1.22 | 6.9 |
| 4/17/2015 | 18:06:06 | 51.84 | 50.74 | 145 | 2.34 | 1.29 | 7.9 |
| 4/17/2015 | 18:06:56 | 52.17 | 51.07 | 29 | 2.33 | 1.46 | 1.6 |
| 4/17/2015 | 18:08:53 | 52.49 | 51.39 | 15 | 2.31 | 1.36 | 0.8 |
| 4/17/2015 | 18:09:48 | 52.82 | 51.72 | 87 | 2.31 | 1.22 | 4.7 |
| 4/17/2015 | 18:09:52 | 53.15 | 52.05 | 86 | 2.30 | 1.24 | 4.7 |
| 4/17/2015 | 18:09:55 | 53.48 | 52.38 | 93 | 2.30 | 1.34 | 5.1 |
| 4/17/2015 | 18:10:00 | 53.81 | 52.71 | 81 | 2.33 | 1.24 | 4.4 |
| 4/17/2015 | 18:10:05 | 54.13 | 53.03 | 72 | 2.33 | 1.28 | 4.0 |
| 4/17/2015 | 18:10:10 | 54.46 | 53.36 | 67 | 2.29 | 1.21 | 3.7 |
| 4/17/2015 | 18:10:11 | 54.56 | 53.46 | 72 | 2.30 | 1.31 | 4.0 |

## C45 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 18:03:02

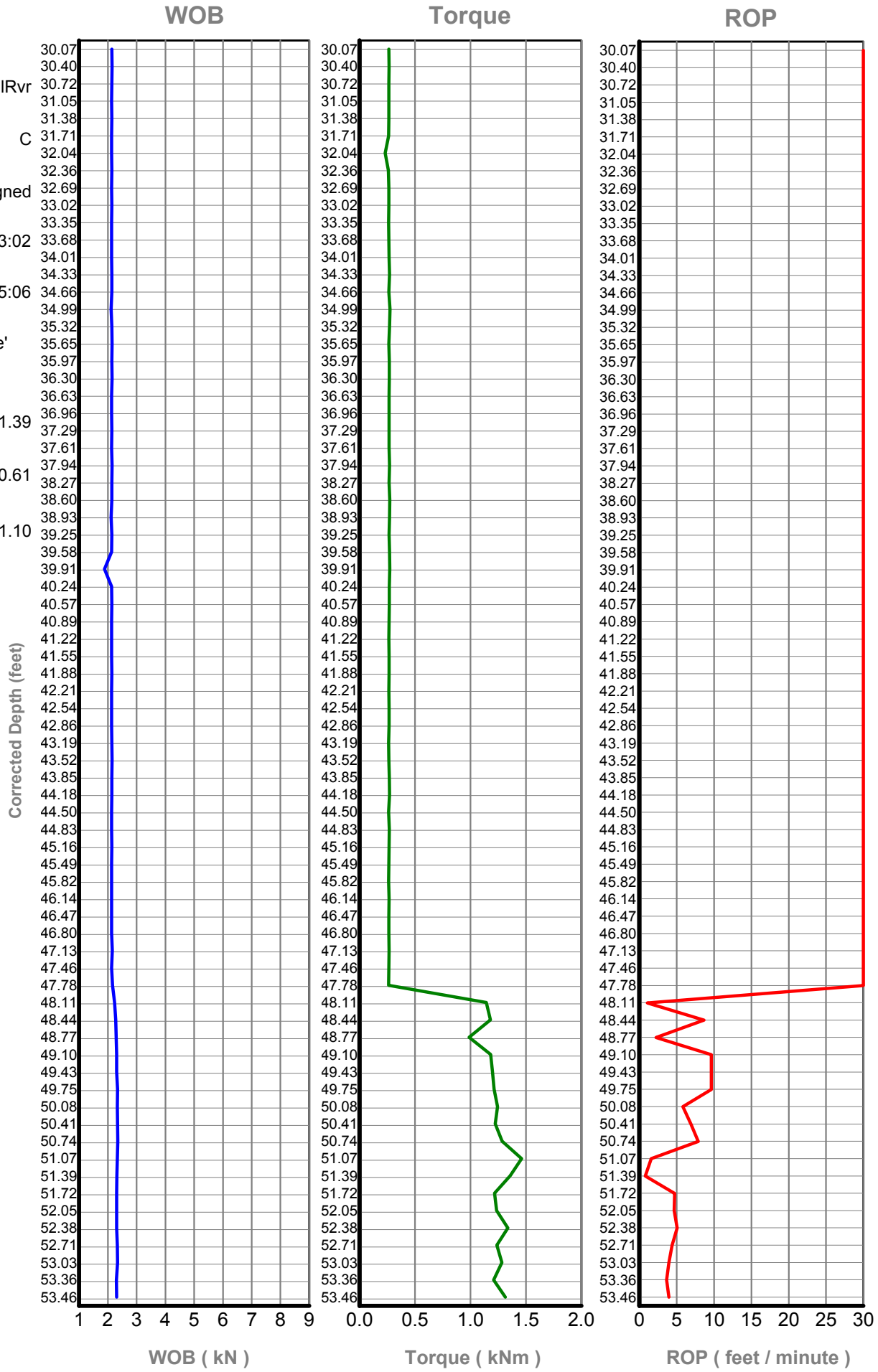
**End Date:**
4/17/2015 18:15:06

**Operator Note:**
'1.1 1.5 c Auto Complete'

**Northing:**
371,101.39

**Easting:**
258,330.61

**Tide (feet):**
1.10



## Hole: C46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:44:58 | 31.50 | 30.10 | 1,174 | 0.46 | 0.33 | 64.2 |
| 4/17/2015 17:44:58 | 31.82 | 30.42 | 1,171 | 0.46 | 0.33 | 64.0 |
| 4/17/2015 17:44:58 | 32.15 | 30.75 | 1,171 | 0.46 | 0.33 | 64.0 |
| 4/17/2015 17:44:59 | 32.48 | 31.08 | 1,171 | 0.46 | 0.33 | 64.0 |
| 4/17/2015 17:44:59 | 32.81 | 31.41 | 1,174 | 0.46 | 0.33 | 64.2 |
| 4/17/2015 17:44:59 | 33.14 | 31.74 | 1,174 | 0.46 | 0.33 | 64.2 |
| 4/17/2015 17:44:59 | 33.46 | 32.06 | 1,171 | 0.46 | 0.33 | 64.0 |
| 4/17/2015 17:45:00 | 33.79 | 32.39 | 1,175 | 0.45 | 0.32 | 64.2 |
| 4/17/2015 17:45:00 | 34.12 | 32.72 | 1,175 | 0.45 | 0.32 | 64.2 |
| 4/17/2015 17:45:00 | 34.45 | 33.05 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 17:45:01 | 34.78 | 33.38 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 17:45:01 | 35.11 | 33.71 | 1,167 | 0.46 | 0.32 | 63.8 |
| 4/17/2015 17:45:01 | 35.43 | 34.03 | 1,179 | 0.52 | 0.33 | 64.4 |
| 4/17/2015 17:45:02 | 35.76 | 34.36 | 1,179 | 0.52 | 0.33 | 64.4 |
| 4/17/2015 17:45:02 | 36.09 | 34.69 | 1,171 | 0.46 | 0.33 | 64.1 |
| 4/17/2015 17:45:03 | 36.42 | 35.02 | 1,171 | 0.46 | 0.33 | 64.1 |
| 4/17/2015 17:45:03 | 36.75 | 35.35 | 1,167 | 0.46 | 0.33 | 63.8 |
| 4/17/2015 17:45:03 | 37.07 | 35.67 | 1,167 | 0.46 | 0.33 | 63.8 |
| 4/17/2015 17:45:03 | 37.40 | 36.00 | 1,177 | 0.46 | 0.32 | 64.4 |
| 4/17/2015 17:45:04 | 37.73 | 36.33 | 1,184 | 0.45 | 0.34 | 64.7 |
| 4/17/2015 17:45:04 | 38.06 | 36.66 | 1,184 | 0.45 | 0.34 | 64.7 |
| 4/17/2015 17:45:04 | 38.39 | 36.99 | 1,157 | 0.45 | 0.33 | 63.2 |
| 4/17/2015 17:45:05 | 38.71 | 37.31 | 1,157 | 0.45 | 0.33 | 63.2 |
| 4/17/2015 17:45:05 | 39.04 | 37.64 | 1,171 | 0.46 | 0.32 | 64.1 |
| 4/17/2015 17:45:05 | 39.37 | 37.97 | 1,181 | 0.46 | 0.33 | 64.6 |
| 4/17/2015 17:45:06 | 39.70 | 38.30 | 1,181 | 0.46 | 0.33 | 64.6 |
| 4/17/2015 17:45:06 | 40.03 | 38.63 | 1,178 | 0.46 | 0.33 | 64.4 |
| 4/17/2015 17:45:06 | 40.35 | 38.95 | 1,178 | 0.46 | 0.33 | 64.4 |
| 4/17/2015 17:45:06 | 40.68 | 39.28 | 1,175 | 0.46 | 0.33 | 64.3 |
| 4/17/2015 17:45:07 | 41.01 | 39.61 | 1,175 | 0.46 | 0.33 | 64.3 |
| 4/17/2015 17:45:07 | 41.34 | 39.94 | 1,188 | 0.46 | 0.32 | 65.0 |
| 4/17/2015 17:45:07 | 41.67 | 40.27 | 1,183 | 0.45 | 0.33 | 64.7 |
| 4/17/2015 17:45:08 | 41.99 | 40.59 | 1,183 | 0.45 | 0.33 | 64.7 |
| 4/17/2015 17:45:08 | 42.32 | 40.92 | 1,174 | 0.45 | 0.33 | 64.2 |
| 4/17/2015 17:45:08 | 42.65 | 41.25 | 1,174 | 0.45 | 0.33 | 64.2 |
| 4/17/2015 17:45:08 | 42.98 | 41.58 | 1,171 | 0.45 | 0.33 | 64.0 |
| 4/17/2015 17:45:09 | 43.31 | 41.91 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 17:45:10 | 43.64 | 42.24 | 1,171 | 0.46 | 0.32 | 64.0 |
| 4/17/2015 17:45:09 | 43.96 | 42.56 | 1,146 | 0.45 | 0.33 | 62.7 |
| 4/17/2015 17:45:10 | 44.29 | 42.89 | 1,146 | 0.45 | 0.33 | 62.7 |
| 4/17/2015 17:45:10 | 44.62 | 43.22 | 1,146 | 0.45 | 0.32 | 62.7 |
| 4/17/2015 17:45:10 | 44.95 | 43.55 | 1,146 | 0.45 | 0.32 | 62.7 |
| 4/17/2015 17:45:10 | 45.28 | 43.88 | 1,155 | 0.45 | 0.32 | 63.2 |
| 4/17/2015 17:45:11 | 45.60 | 44.20 | 1,155 | 0.45 | 0.32 | 63.2 |
| 4/17/2015 17:45:11 | 45.93 | 44.53 | 1,155 | 0.45 | 0.32 | 63.2 |
| 4/17/2015 17:45:11 | 46.26 | 44.86 | 1,149 | 0.45 | 0.32 | 62.8 |
| 4/17/2015 17:45:12 | 46.59 | 45.19 | 1,149 | 0.45 | 0.32 | 62.8 |
| 4/17/2015 17:45:12 | 46.92 | 45.52 | 1,150 | 0.45 | 0.34 | 62.9 |
| 4/17/2015 17:45:12 | 47.24 | 45.84 | 1,169 | 0.45 | 0.36 | 63.9 |
| 4/17/2015 17:45:13 | 47.57 | 46.17 | 1,169 | 0.45 | 0.36 | 63.9 |
| 4/17/2015 17:45:13 | 47.90 | 46.50 | 1,119 | 0.45 | 0.35 | 61.2 |
| 4/17/2015 17:45:14 | 48.23 | 46.83 | 1,070 | 0.45 | 0.35 | 58.5 |
| 4/17/2015 17:45:14 | 48.56 | 47.16 | 1,021 | 0.45 | 0.35 | 55.8 |
| 4/17/2015 17:45:15 | 48.88 | 47.48 | 1,021 | 0.45 | 0.35 | 55.8 |
| 4/17/2015 17:45:15 | 49.21 | 47.81 | 960 | 0.45 | 0.35 | 52.5 |
| 4/17/2015 17:45:15 | 49.54 | 48.14 | 899 | 0.45 | 0.35 | 49.2 |
| 4/17/2015 17:45:16 | 49.87 | 48.47 | 861 | 0.45 | 0.35 | 47.1 |
| 4/17/2015 17:45:16 | 50.20 | 48.80 | 827 | 0.45 | 0.38 | 45.2 |
| 4/17/2015 17:45:29 | 50.53 | 49.13 | 37 | 2.66 | 0.42 | 2.0 |
| 4/17/2015 17:45:30 | 50.85 | 49.45 | 139 | 3.39 | 0.43 | 7.6 |
| 4/17/2015 17:45:31 | 51.18 | 49.78 | 186 | 3.41 | 0.43 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 17:45:34 | 51.51 | 50.11 | 238 | 3.64 | 0.44 | 13.0 |
| 4/17/2015 | 17:45:39 | 51.84 | 50.44 | 50 | 3.90 | 0.42 | 2.7 |
| 4/17/2015 | 17:45:45 | 52.17 | 50.77 | 58 | 3.71 | 0.41 | 3.2 |
| 4/17/2015 | 17:45:48 | 52.49 | 51.09 | 113 | 4.15 | 0.37 | 6.2 |
| 4/17/2015 | 17:45:51 | 52.82 | 51.42 | 118 | 4.28 | 0.42 | 6.5 |
| 4/17/2015 | 17:45:55 | 53.15 | 51.75 | 94 | 3.76 | 0.39 | 5.1 |
| 4/17/2015 | 17:45:59 | 53.48 | 52.08 | 87 | 4.08 | 0.39 | 4.7 |
| 4/17/2015 | 17:46:03 | 53.81 | 52.41 | 72 | 4.08 | 0.38 | 4.0 |
| 4/17/2015 | 17:46:08 | 54.13 | 52.73 | 85 | 4.58 | 0.40 | 4.6 |
| 4/17/2015 | 17:46:13 | 54.46 | 53.06 | 78 | 4.43 | 0.39 | 4.3 |
| 4/17/2015 | 17:46:18 | 54.79 | 53.39 | 66 | 4.30 | 0.41 | 3.6 |
| 4/17/2015 | 17:46:23 | 55.12 | 53.72 | 66 | 4.22 | 0.39 | 3.6 |
| 4/17/2015 | 17:46:29 | 55.45 | 54.05 | 61 | 4.34 | 0.38 | 3.3 |
| 4/17/2015 | 17:46:34 | 55.77 | 54.37 | 75 | 4.04 | 0.36 | 4.1 |
| 4/17/2015 | 17:46:36 | 55.90 | 54.50 | 72 | 4.98 | 0.12 | 3.9 |

## C46 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:43:32

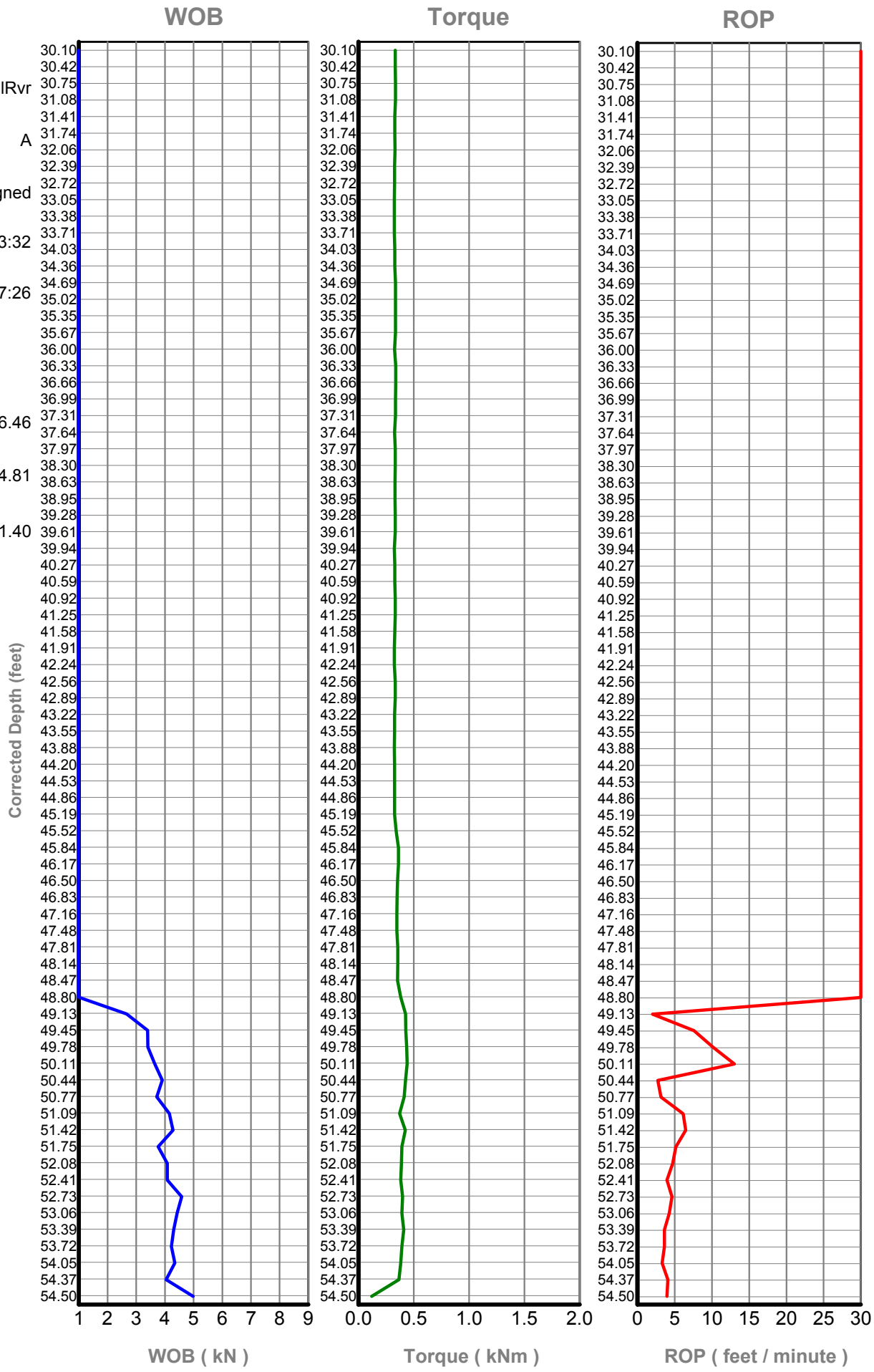
**End Date:**
4/17/2015 17:47:26

**Operator Note:**
'1.4 1..8 a Auto Complete'

**Northing:**
371,136.46

**Easting:**
258,394.81

**Tide (feet):**
1.40



## Hole: C47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:43:38 | 31.50 | 30.10 | 1,010 | 0.33 | 0.34 | 55.2 |
| 4/17/2015 17:43:39 | 31.82 | 30.42 | 1,019 | 0.31 | 0.34 | 55.7 |
| 4/17/2015 17:43:39 | 32.15 | 30.75 | 1,019 | 0.31 | 0.34 | 55.7 |
| 4/17/2015 17:43:39 | 32.48 | 31.08 | 1,014 | 0.31 | 0.34 | 55.4 |
| 4/17/2015 17:43:40 | 32.81 | 31.41 | 1,014 | 0.34 | 0.34 | 55.4 |
| 4/17/2015 17:43:41 | 33.14 | 31.74 | 1,014 | 0.34 | 0.34 | 55.4 |
| 4/17/2015 17:43:41 | 33.46 | 32.06 | 1,002 | 0.30 | 0.34 | 54.8 |
| 4/17/2015 17:43:41 | 33.79 | 32.39 | 1,021 | 0.29 | 0.34 | 55.9 |
| 4/17/2015 17:43:42 | 34.12 | 32.72 | 1,021 | 0.29 | 0.34 | 55.9 |
| 4/17/2015 17:43:42 | 34.45 | 33.05 | 1,006 | 0.31 | 0.34 | 55.0 |
| 4/17/2015 17:43:42 | 34.78 | 33.38 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:43:43 | 35.11 | 33.71 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:43:43 | 35.43 | 34.03 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:43:43 | 35.76 | 34.36 | 1,009 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:43:44 | 36.09 | 34.69 | 1,009 | 0.30 | 0.34 | 55.2 |
| 4/17/2015 17:43:44 | 36.42 | 35.02 | 1,006 | 0.30 | 0.34 | 55.0 |
| 4/17/2015 17:43:44 | 36.75 | 35.35 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/17/2015 17:43:45 | 37.07 | 35.67 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/17/2015 17:43:45 | 37.40 | 36.00 | 994 | 0.30 | 0.35 | 54.4 |
| 4/17/2015 17:43:45 | 37.73 | 36.33 | 1,006 | 0.29 | 0.34 | 55.0 |
| 4/17/2015 17:43:46 | 38.06 | 36.66 | 1,000 | 0.29 | 0.34 | 54.7 |
| 4/17/2015 17:43:46 | 38.39 | 36.99 | 1,000 | 0.29 | 0.34 | 54.7 |
| 4/17/2015 17:43:46 | 38.71 | 37.31 | 1,000 | 0.29 | 0.34 | 54.7 |
| 4/17/2015 17:43:47 | 39.04 | 37.64 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:43:47 | 39.37 | 37.97 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:43:47 | 39.70 | 38.30 | 1,006 | 0.29 | 0.34 | 55.0 |
| 4/17/2015 17:43:48 | 40.03 | 38.63 | 1,000 | 0.29 | 0.35 | 54.7 |
| 4/17/2015 17:43:48 | 40.35 | 38.95 | 1,000 | 0.29 | 0.35 | 54.7 |
| 4/17/2015 17:43:48 | 40.68 | 39.28 | 982 | 0.29 | 0.34 | 53.7 |
| 4/17/2015 17:43:49 | 41.01 | 39.61 | 982 | 0.30 | 0.34 | 53.7 |
| 4/17/2015 17:43:49 | 41.34 | 39.94 | 982 | 0.30 | 0.34 | 53.7 |
| 4/17/2015 17:43:49 | 41.67 | 40.27 | 993 | 0.30 | 0.35 | 54.3 |
| 4/17/2015 17:43:50 | 41.99 | 40.59 | 993 | 0.29 | 0.35 | 54.3 |
| 4/17/2015 17:43:50 | 42.32 | 40.92 | 993 | 0.29 | 0.35 | 54.3 |
| 4/17/2015 17:43:50 | 42.65 | 41.25 | 993 | 0.29 | 0.35 | 54.3 |
| 4/17/2015 17:43:51 | 42.98 | 41.58 | 990 | 0.30 | 0.34 | 54.1 |
| 4/17/2015 17:43:52 | 43.31 | 41.91 | 990 | 0.30 | 0.34 | 54.1 |
| 4/17/2015 17:43:52 | 43.64 | 42.24 | 1,020 | 0.30 | 0.35 | 55.8 |
| 4/17/2015 17:43:52 | 43.96 | 42.56 | 1,009 | 0.31 | 0.34 | 55.2 |
| 4/17/2015 17:43:53 | 44.29 | 42.89 | 1,009 | 0.31 | 0.34 | 55.2 |
| 4/17/2015 17:43:53 | 44.62 | 43.22 | 1,009 | 0.30 | 0.35 | 55.2 |
| 4/17/2015 17:43:53 | 44.95 | 43.55 | 1,009 | 0.29 | 0.34 | 55.2 |
| 4/17/2015 17:43:54 | 45.28 | 43.88 | 1,012 | 0.29 | 0.34 | 55.3 |
| 4/17/2015 17:43:54 | 45.60 | 44.20 | 1,012 | 0.29 | 0.34 | 55.3 |
| 4/17/2015 17:43:54 | 45.93 | 44.53 | 1,003 | 0.30 | 0.34 | 54.8 |
| 4/17/2015 17:43:55 | 46.26 | 44.86 | 1,003 | 0.30 | 0.34 | 54.8 |
| 4/17/2015 17:43:55 | 46.59 | 45.19 | 1,003 | 0.30 | 0.34 | 54.8 |
| 4/17/2015 17:43:55 | 46.92 | 45.52 | 1,003 | 0.30 | 0.34 | 54.8 |
| 4/17/2015 17:43:56 | 47.24 | 45.84 | 1,009 | 0.31 | 0.34 | 55.2 |
| 4/17/2015 17:43:56 | 47.57 | 46.17 | 1,009 | 0.31 | 0.34 | 55.2 |
| 4/17/2015 17:43:56 | 47.90 | 46.50 | 1,003 | 0.29 | 0.34 | 54.9 |
| 4/17/2015 17:43:57 | 48.23 | 46.83 | 1,000 | 0.31 | 0.35 | 54.7 |
| 4/17/2015 17:43:57 | 48.56 | 47.16 | 1,000 | 0.31 | 0.35 | 54.7 |
| 4/17/2015 17:43:57 | 48.88 | 47.48 | 1,000 | 0.30 | 0.34 | 54.7 |
| 4/17/2015 17:43:58 | 49.21 | 47.81 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:43:58 | 49.54 | 48.14 | 1,003 | 0.30 | 0.34 | 54.9 |
| 4/17/2015 17:43:58 | 49.87 | 48.47 | 1,000 | 0.27 | 0.36 | 54.7 |
| 4/17/2015 17:44:12 | 50.20 | 48.80 | 46 | 3.29 | 0.42 | 2.5 |
| 4/17/2015 17:44:17 | 50.53 | 49.13 | 69 | 3.50 | 0.41 | 3.8 |
| 4/17/2015 17:44:20 | 50.85 | 49.45 | 139 | 3.88 | 0.42 | 7.6 |
| 4/17/2015 17:44:24 | 51.18 | 49.78 | 96 | 3.72 | 0.41 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 17:44:35 | 51.51 | 50.11 | 8 | 4.04 | 0.42 | 0.4 |
| 4/17/2015 | 17:44:42 | 51.84 | 50.44 | 56 | 2.89 | 0.42 | 3.1 |
| 4/17/2015 | 17:44:47 | 52.17 | 50.77 | 76 | 3.46 | 0.42 | 4.1 |
| 4/17/2015 | 17:44:52 | 52.49 | 51.09 | 64 | 3.75 | 0.42 | 3.5 |
| 4/17/2015 | 17:44:57 | 52.82 | 51.42 | 64 | 3.48 | 0.42 | 3.5 |
| 4/17/2015 | 17:45:03 | 53.15 | 51.75 | 64 | 3.62 | 0.42 | 3.5 |
| 4/17/2015 | 17:45:08 | 53.48 | 52.08 | 66 | 3.02 | 0.41 | 3.6 |
| 4/17/2015 | 17:45:13 | 53.81 | 52.41 | 64 | 3.37 | 0.41 | 3.5 |
| 4/17/2015 | 17:45:19 | 54.13 | 52.73 | 61 | 3.34 | 0.42 | 3.3 |
| 4/17/2015 | 17:45:22 | 54.34 | 52.94 | 63 | 3.17 | 0.41 | 3.4 |

## C47 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:41:31

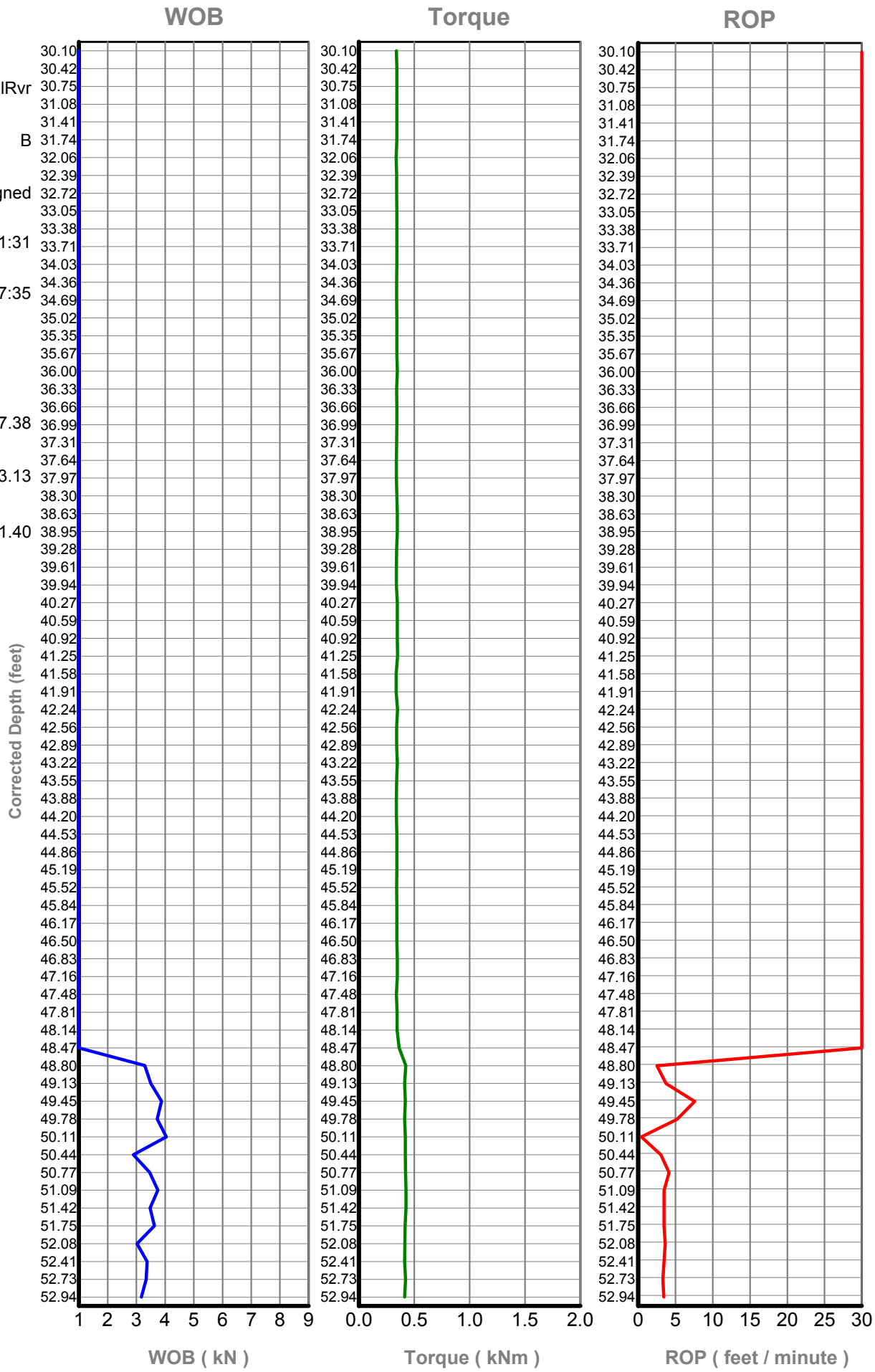
**End Date:**
4/17/2015 17:47:35

**Operator Note:**
'1.4 1.8 b Rock @ 53"

**Northing:**
371,167.38

**Easting:**
258,463.13

**Tide (feet):**
1.40



## Hole: C48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:44:11 | 31.50 | 30.10 | 616 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 17:44:11 | 31.82 | 30.42 | 616 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 17:44:12 | 32.15 | 30.75 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 17:44:12 | 32.48 | 31.08 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:44:13 | 32.81 | 31.41 | 616 | 2.12 | 0.26 | 33.7 |
| 4/17/2015 17:44:13 | 33.14 | 31.74 | 615 | 2.14 | 0.26 | 33.6 |
| 4/17/2015 17:44:14 | 33.46 | 32.06 | 619 | 2.12 | 0.26 | 33.8 |
| 4/17/2015 17:44:15 | 33.79 | 32.39 | 603 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 17:44:16 | 34.12 | 32.72 | 610 | 2.14 | 0.26 | 33.3 |
| 4/17/2015 17:44:16 | 34.45 | 33.05 | 609 | 2.14 | 0.26 | 33.3 |
| 4/17/2015 17:44:17 | 34.78 | 33.38 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:17 | 35.11 | 33.71 | 594 | 2.13 | 0.26 | 32.5 |
| 4/17/2015 17:44:18 | 35.43 | 34.03 | 594 | 2.14 | 0.26 | 32.5 |
| 4/17/2015 17:44:18 | 35.76 | 34.36 | 620 | 2.13 | 0.26 | 33.9 |
| 4/17/2015 17:44:19 | 36.09 | 34.69 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 17:44:20 | 36.42 | 35.02 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:44:20 | 36.75 | 35.35 | 626 | 2.12 | 0.26 | 34.2 |
| 4/17/2015 17:44:21 | 37.07 | 35.67 | 613 | 2.13 | 0.26 | 33.5 |
| 4/17/2015 17:44:21 | 37.40 | 36.00 | 603 | 2.13 | 0.26 | 33.0 |
| 4/17/2015 17:44:22 | 37.73 | 36.33 | 603 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 17:44:22 | 38.06 | 36.66 | 618 | 2.13 | 0.26 | 33.8 |
| 4/17/2015 17:44:23 | 38.39 | 36.99 | 614 | 2.12 | 0.26 | 33.6 |
| 4/17/2015 17:44:23 | 38.71 | 37.31 | 607 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 17:44:24 | 39.04 | 37.64 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:44:25 | 39.37 | 37.97 | 606 | 2.13 | 0.26 | 33.1 |
| 4/17/2015 17:44:25 | 39.70 | 38.30 | 606 | 2.14 | 0.26 | 33.1 |
| 4/17/2015 17:44:26 | 40.03 | 38.63 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:44:27 | 40.35 | 38.95 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:27 | 40.68 | 39.28 | 614 | 2.14 | 0.27 | 33.6 |
| 4/17/2015 17:44:28 | 41.01 | 39.61 | 607 | 2.14 | 0.26 | 33.2 |
| 4/17/2015 17:44:28 | 41.34 | 39.94 | 620 | 2.14 | 0.26 | 33.9 |
| 4/17/2015 17:44:29 | 41.67 | 40.27 | 617 | 2.13 | 0.26 | 33.7 |
| 4/17/2015 17:44:29 | 41.99 | 40.59 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:30 | 42.32 | 40.92 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:31 | 42.65 | 41.25 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:31 | 42.98 | 41.58 | 613 | 2.18 | 0.26 | 33.5 |
| 4/17/2015 17:44:32 | 43.31 | 41.91 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:44:32 | 43.64 | 42.24 | 606 | 2.12 | 0.26 | 33.2 |
| 4/17/2015 17:44:33 | 43.96 | 42.56 | 613 | 2.13 | 0.26 | 33.5 |
| 4/17/2015 17:44:33 | 44.29 | 42.89 | 597 | 2.14 | 0.26 | 32.7 |
| 4/17/2015 17:44:34 | 44.62 | 43.22 | 597 | 2.13 | 0.26 | 32.7 |
| 4/17/2015 17:44:35 | 44.95 | 43.55 | 606 | 2.14 | 0.26 | 33.1 |
| 4/17/2015 17:44:35 | 45.28 | 43.88 | 610 | 2.13 | 0.26 | 33.3 |
| 4/17/2015 17:44:36 | 45.60 | 44.20 | 603 | 2.14 | 0.26 | 33.0 |
| 4/17/2015 17:44:37 | 45.93 | 44.53 | 616 | 2.14 | 0.26 | 33.7 |
| 4/17/2015 17:44:37 | 46.26 | 44.86 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:38 | 46.59 | 45.19 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:44:38 | 46.92 | 45.52 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:44:39 | 47.24 | 45.84 | 610 | 2.14 | 0.26 | 33.4 |
| 4/17/2015 17:44:40 | 47.57 | 46.17 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:44:40 | 47.90 | 46.50 | 613 | 2.14 | 0.26 | 33.5 |
| 4/17/2015 17:44:41 | 48.23 | 46.83 | 610 | 2.12 | 0.26 | 33.4 |
| 4/17/2015 17:44:41 | 48.56 | 47.16 | 610 | 2.13 | 0.26 | 33.4 |
| 4/17/2015 17:44:42 | 48.88 | 47.48 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:44:42 | 49.21 | 47.81 | 607 | 2.13 | 0.26 | 33.2 |
| 4/17/2015 17:45:12 | 49.54 | 48.14 | 18 | 2.27 | 1.15 | 1.0 |
| 4/17/2015 17:45:16 | 49.87 | 48.47 | 76 | 2.31 | 1.17 | 4.2 |
| 4/17/2015 17:45:19 | 50.20 | 48.80 | 141 | 2.33 | 1.16 | 7.7 |
| 4/17/2015 17:45:22 | 50.53 | 49.13 | 96 | 2.33 | 1.16 | 5.2 |
| 4/17/2015 17:45:26 | 50.85 | 49.45 | 93 | 2.33 | 1.16 | 5.1 |
| 4/17/2015 17:45:31 | 51.18 | 49.78 | 81 | 2.33 | 1.19 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 17:45:35 | 51.51 | 50.11 | 88 | 2.33 | 1.15 | 4.8 |
| 4/17/2015 | 17:45:40 | 51.84 | 50.44 | 71 | 2.33 | 1.18 | 3.9 |
| 4/17/2015 | 17:45:44 | 52.17 | 50.77 | 87 | 2.36 | 1.15 | 4.7 |
| 4/17/2015 | 17:45:46 | 52.39 | 50.99 | 95 | 2.32 | 1.17 | 5.2 |

## C48 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 17:42:42

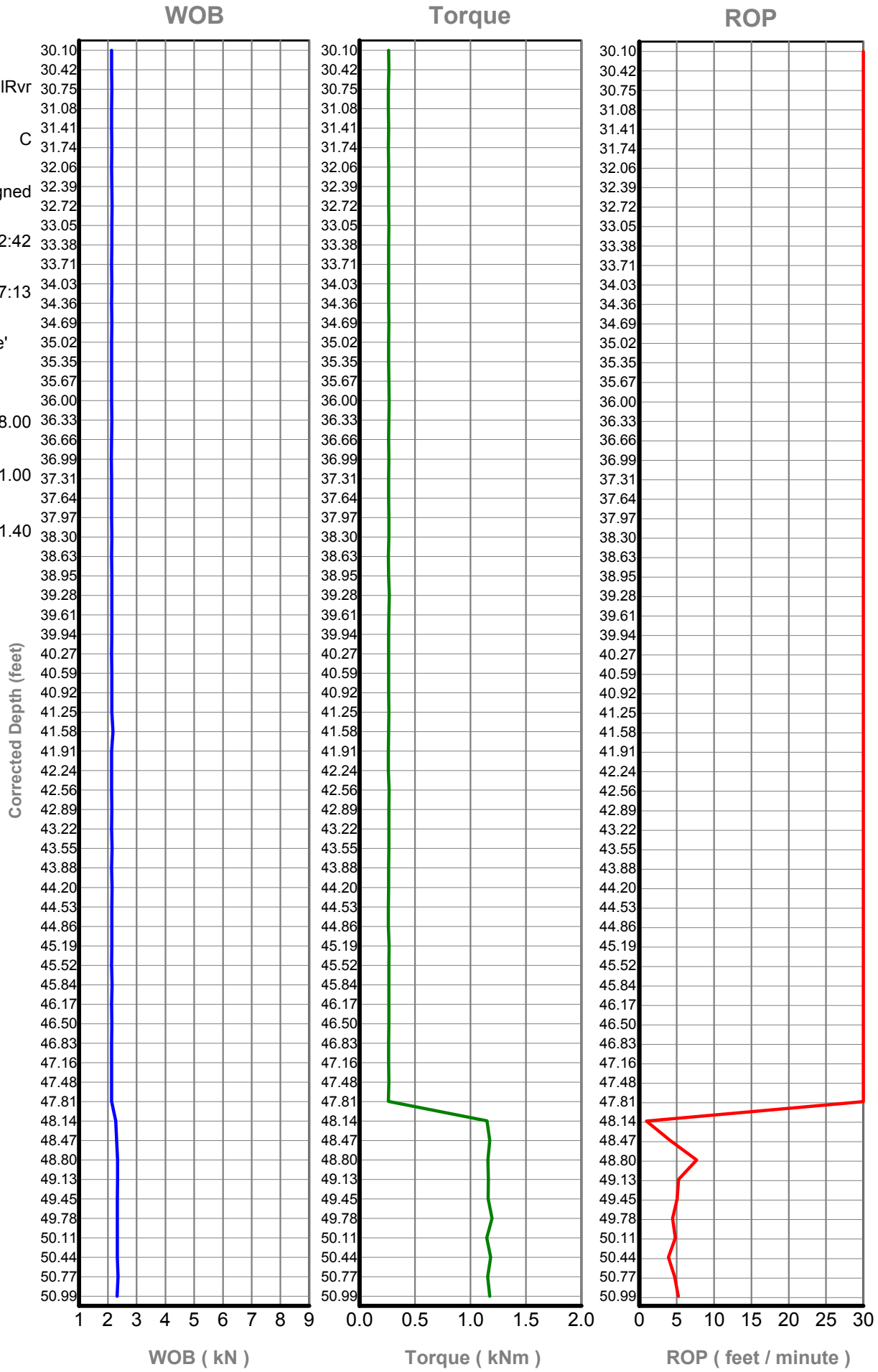
**End Date:**
4/17/2015 17:47:13

**Operator Note:**
'1.4 1.8 c Auto Complete'

**Northing:**
371,198.00

**Easting:**
258,531.00

**Tide (feet):**
1.40



## Hole: C49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 2:29:50 | 35.43 | 30.03 | 1,025 | 1.02 | 0.34 | 56.0 |
| 4/18/2015 2:29:50 | 35.76 | 30.36 | 1,016 | 1.00 | 0.34 | 55.5 |
| 4/18/2015 2:29:50 | 36.09 | 30.69 | 1,010 | 1.02 | 0.34 | 55.2 |
| 4/18/2015 2:29:51 | 36.42 | 31.02 | 1,010 | 1.02 | 0.34 | 55.2 |
| 4/18/2015 2:29:51 | 36.75 | 31.35 | 1,016 | 1.00 | 0.34 | 55.5 |
| 4/18/2015 2:29:51 | 37.07 | 31.67 | 1,012 | 1.03 | 0.34 | 55.3 |
| 4/18/2015 2:29:52 | 37.40 | 32.00 | 1,012 | 1.03 | 0.34 | 55.3 |
| 4/18/2015 2:29:52 | 37.73 | 32.33 | 1,009 | 1.01 | 0.34 | 55.2 |
| 4/18/2015 2:29:52 | 38.06 | 32.66 | 1,006 | 1.02 | 0.34 | 55.0 |
| 4/18/2015 2:29:53 | 38.39 | 32.99 | 1,006 | 1.02 | 0.34 | 55.0 |
| 4/18/2015 2:29:53 | 38.71 | 33.31 | 1,003 | 1.03 | 0.34 | 54.9 |
| 4/18/2015 2:29:53 | 39.04 | 33.64 | 1,015 | 1.01 | 0.34 | 55.5 |
| 4/18/2015 2:29:54 | 39.37 | 33.97 | 1,015 | 1.01 | 0.34 | 55.5 |
| 4/18/2015 2:29:54 | 39.70 | 34.30 | 1,009 | 1.02 | 0.34 | 55.2 |
| 4/18/2015 2:29:54 | 40.03 | 34.63 | 1,009 | 1.01 | 0.34 | 55.2 |
| 4/18/2015 2:29:55 | 40.35 | 34.95 | 1,009 | 1.01 | 0.34 | 55.2 |
| 4/18/2015 2:29:55 | 40.68 | 35.28 | 1,006 | 1.04 | 0.34 | 55.0 |
| 4/18/2015 2:29:55 | 41.01 | 35.61 | 1,020 | 1.01 | 0.34 | 55.8 |
| 4/18/2015 2:29:56 | 41.34 | 35.94 | 1,020 | 1.01 | 0.34 | 55.8 |
| 4/18/2015 2:29:56 | 41.67 | 36.27 | 1,012 | 1.02 | 0.34 | 55.3 |
| 4/18/2015 2:29:56 | 41.99 | 36.59 | 1,009 | 1.02 | 0.34 | 55.2 |
| 4/18/2015 2:29:57 | 42.32 | 36.92 | 1,006 | 1.00 | 0.33 | 55.0 |
| 4/18/2015 2:29:57 | 42.65 | 37.25 | 1,006 | 1.00 | 0.33 | 55.0 |
| 4/18/2015 2:29:57 | 42.98 | 37.58 | 1,015 | 1.02 | 0.34 | 55.5 |
| 4/18/2015 2:29:58 | 43.31 | 37.91 | 1,009 | 0.99 | 0.34 | 55.2 |
| 4/18/2015 2:29:59 | 43.64 | 38.24 | 1,009 | 0.99 | 0.34 | 55.2 |
| 4/18/2015 2:29:59 | 43.96 | 38.56 | 1,009 | 1.01 | 0.35 | 55.2 |
| 4/18/2015 2:29:59 | 44.29 | 38.89 | 1,012 | 1.01 | 0.35 | 55.3 |
| 4/18/2015 2:30:00 | 44.62 | 39.22 | 1,012 | 1.01 | 0.35 | 55.3 |
| 4/18/2015 2:30:00 | 44.95 | 39.55 | 1,020 | 1.03 | 0.33 | 55.8 |
| 4/18/2015 2:30:00 | 45.28 | 39.88 | 1,014 | 1.01 | 0.34 | 55.5 |
| 4/18/2015 2:30:01 | 45.60 | 40.20 | 1,014 | 1.01 | 0.34 | 55.5 |
| 4/18/2015 2:30:01 | 45.93 | 40.53 | 1,017 | 0.99 | 0.34 | 55.6 |
| 4/18/2015 2:30:01 | 46.26 | 40.86 | 1,012 | 1.03 | 0.34 | 55.3 |
| 4/18/2015 2:30:02 | 46.59 | 41.19 | 1,012 | 1.03 | 0.34 | 55.3 |
| 4/18/2015 2:30:02 | 46.92 | 41.52 | 1,024 | 0.98 | 0.34 | 56.0 |
| 4/18/2015 2:30:02 | 47.24 | 41.84 | 1,019 | 1.02 | 0.34 | 55.7 |
| 4/18/2015 2:30:03 | 47.57 | 42.17 | 1,019 | 1.02 | 0.34 | 55.7 |
| 4/18/2015 2:30:03 | 47.90 | 42.50 | 1,019 | 1.01 | 0.34 | 55.7 |
| 4/18/2015 2:30:03 | 48.23 | 42.83 | 1,013 | 1.03 | 0.34 | 55.4 |
| 4/18/2015 2:30:04 | 48.56 | 43.16 | 1,013 | 1.03 | 0.34 | 55.4 |
| 4/18/2015 2:30:04 | 48.88 | 43.48 | 1,033 | 1.02 | 0.34 | 56.5 |
| 4/18/2015 2:30:04 | 49.21 | 43.81 | 1,020 | 1.06 | 0.34 | 55.8 |
| 4/18/2015 2:30:05 | 49.54 | 44.14 | 1,020 | 1.06 | 0.34 | 55.8 |
| 4/18/2015 2:30:05 | 49.87 | 44.47 | 1,023 | 1.40 | 0.35 | 56.0 |
| 4/18/2015 2:30:05 | 50.20 | 44.80 | 1,003 | 0.99 | 0.35 | 54.9 |
| 4/18/2015 2:30:06 | 50.53 | 45.13 | 991 | 1.05 | 0.35 | 54.2 |
| 4/18/2015 2:30:06 | 50.85 | 45.45 | 991 | 1.05 | 0.35 | 54.2 |
| 4/18/2015 2:30:06 | 51.18 | 45.78 | 957 | 1.02 | 0.35 | 52.3 |
| 4/18/2015 2:30:07 | 51.51 | 46.11 | 930 | 1.06 | 0.35 | 50.9 |
| 4/18/2015 2:30:07 | 51.84 | 46.44 | 899 | 1.29 | 0.36 | 49.2 |
| 4/18/2015 2:30:08 | 52.17 | 46.77 | 899 | 1.29 | 0.36 | 49.2 |
| 4/18/2015 2:30:09 | 52.49 | 47.09 | 638 | 2.06 | 0.41 | 34.9 |
| 4/18/2015 2:30:42 | 52.82 | 47.42 | 20 | 2.87 | 0.42 | 1.1 |
| 4/18/2015 2:30:48 | 53.15 | 47.75 | 52 | 3.28 | 0.41 | 2.8 |
| 4/18/2015 2:30:52 | 53.48 | 48.08 | 93 | 3.26 | 0.42 | 5.1 |
| 4/18/2015 2:30:55 | 53.81 | 48.41 | 79 | 3.75 | 0.38 | 4.3 |
| 4/18/2015 2:30:55 | 54.13 | 48.73 | 182 | 3.45 | 0.38 | 10.0 |
| 4/18/2015 2:30:56 | 54.46 | 49.06 | 403 | 2.86 | 0.39 | 22.0 |
| 4/18/2015 2:30:57 | 54.79 | 49.39 | 508 | 3.26 | 0.38 | 27.8 |
| 4/18/2015 2:30:57 | 55.12 | 49.72 | 541 | 2.65 | 0.39 | 29.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 2:30:58 | 55.45 | 50.05 | 515 | 3.64 | 0.40 | 28.2 |
| 4/18/2015 | 2:30:59 | 55.77 | 50.37 | 428 | 3.26 | 0.39 | 23.4 |
| 4/18/2015 | 2:31:00 | 56.10 | 50.70 | 329 | 3.54 | 0.40 | 18.0 |
| 4/18/2015 | 2:31:03 | 56.43 | 51.03 | 220 | 3.75 | 0.40 | 12.0 |
| 4/18/2015 | 2:31:06 | 56.76 | 51.36 | 113 | 3.26 | 0.42 | 6.2 |
| 4/18/2015 | 2:31:15 | 57.09 | 51.69 | 36 | 3.70 | 0.43 | 2.0 |
| 4/18/2015 | 2:31:30 | 57.41 | 52.01 | 0 | 3.82 | 0.43 | 0.0 |
| 4/18/2015 | 2:31:49 | 57.74 | 52.34 | 7 | 7.60 | 0.43 | 0.4 |
| 4/18/2015 | 2:32:04 | 57.86 | 52.46 | 10 | 5.61 | 0.42 | 0.6 |

## C49 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 2:25:06

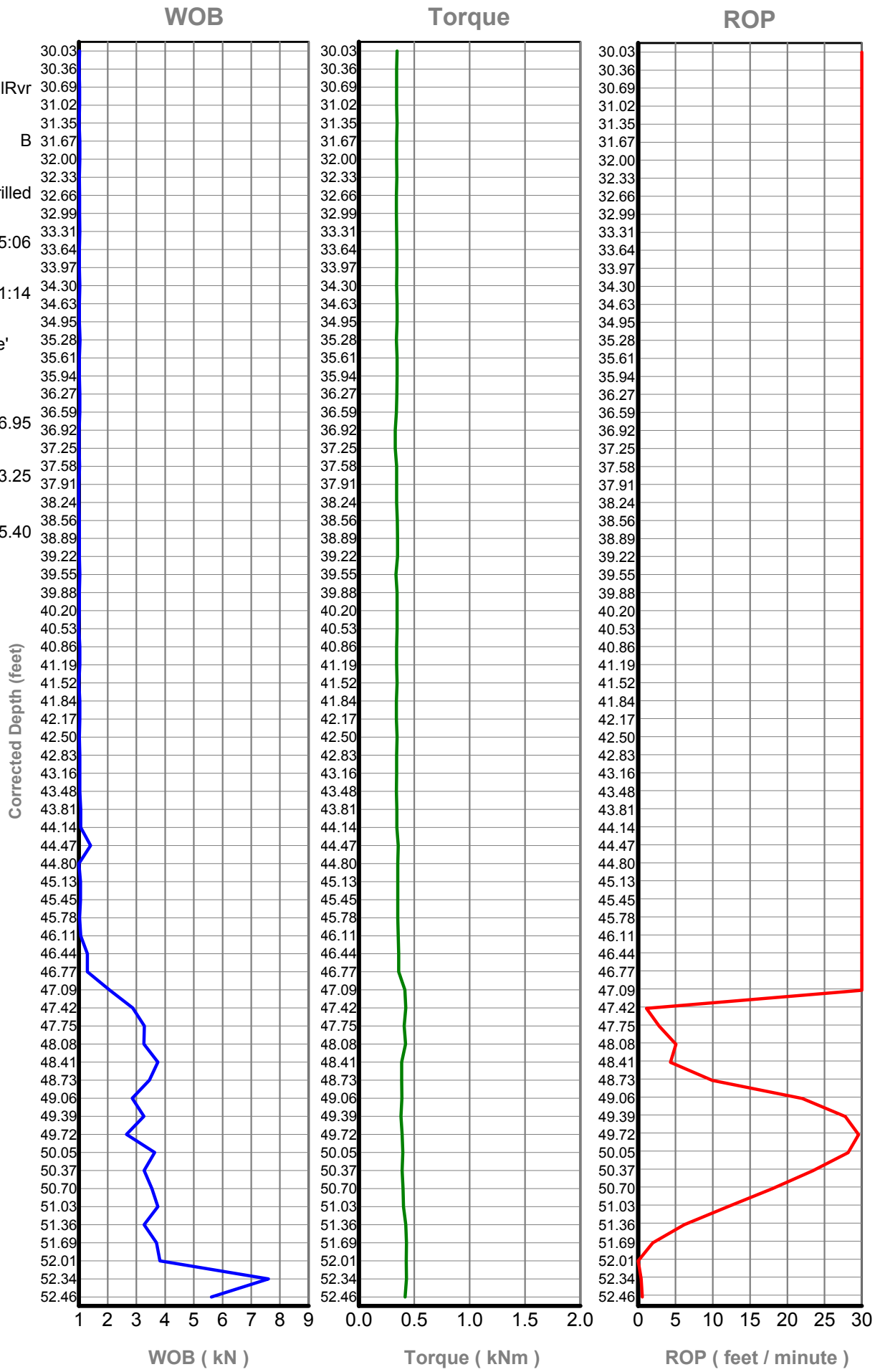
**End Date:**
4/18/2015 2:41:14

**Operator Note:**
'5.4 5.6 b Auto Complete'

**Northing:**
370,796.95

**Easting:**
257,823.25

**Tide (feet):**
5.40



## Hole: C5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:33:32 | 31.50 | 30.20 | 1,119 | 0.47 | 0.32 | 61.2 |
| 4/17/2015 20:33:33 | 31.82 | 30.52 | 1,119 | 0.47 | 0.32 | 61.2 |
| 4/17/2015 20:33:33 | 32.15 | 30.85 | 1,112 | 0.48 | 0.33 | 60.8 |
| 4/17/2015 20:33:33 | 32.48 | 31.18 | 1,109 | 0.48 | 0.32 | 60.6 |
| 4/17/2015 20:33:34 | 32.81 | 31.51 | 1,109 | 0.48 | 0.32 | 60.6 |
| 4/17/2015 20:33:34 | 33.14 | 31.84 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/17/2015 20:33:35 | 33.46 | 32.16 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/17/2015 20:33:34 | 33.79 | 32.49 | 1,110 | 0.48 | 0.33 | 60.7 |
| 4/17/2015 20:33:35 | 34.12 | 32.82 | 1,107 | 0.50 | 0.33 | 60.5 |
| 4/17/2015 20:33:36 | 34.45 | 33.15 | 1,107 | 0.50 | 0.33 | 60.5 |
| 4/17/2015 20:33:36 | 34.78 | 33.48 | 1,110 | 0.47 | 0.32 | 60.7 |
| 4/17/2015 20:33:36 | 35.11 | 33.81 | 1,107 | 0.48 | 0.32 | 60.5 |
| 4/17/2015 20:33:37 | 35.43 | 34.13 | 1,107 | 0.48 | 0.32 | 60.5 |
| 4/17/2015 20:33:37 | 35.76 | 34.46 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/17/2015 20:33:37 | 36.09 | 34.79 | 1,110 | 0.48 | 0.32 | 60.7 |
| 4/17/2015 20:33:37 | 36.42 | 35.12 | 1,107 | 0.47 | 0.32 | 60.5 |
| 4/17/2015 20:33:38 | 36.75 | 35.45 | 1,113 | 0.47 | 0.32 | 60.9 |
| 4/17/2015 20:33:38 | 37.07 | 35.77 | 1,113 | 0.47 | 0.32 | 60.9 |
| 4/17/2015 20:33:38 | 37.40 | 36.10 | 1,107 | 0.47 | 0.32 | 60.6 |
| 4/17/2015 20:33:39 | 37.73 | 36.43 | 1,114 | 0.47 | 0.33 | 60.9 |
| 4/17/2015 20:33:39 | 38.06 | 36.76 | 1,114 | 0.47 | 0.33 | 60.9 |
| 4/17/2015 20:33:39 | 38.39 | 37.09 | 1,107 | 0.47 | 0.32 | 60.5 |
| 4/17/2015 20:33:40 | 38.71 | 37.41 | 1,107 | 0.47 | 0.32 | 60.5 |
| 4/17/2015 20:33:40 | 39.04 | 37.74 | 1,113 | 0.47 | 0.33 | 60.9 |
| 4/17/2015 20:33:40 | 39.37 | 38.07 | 1,107 | 0.47 | 0.33 | 60.5 |
| 4/17/2015 20:33:41 | 39.70 | 38.40 | 1,107 | 0.47 | 0.33 | 60.5 |
| 4/17/2015 20:33:41 | 40.03 | 38.73 | 1,110 | 0.47 | 0.32 | 60.7 |
| 4/17/2015 20:33:41 | 40.35 | 39.05 | 1,110 | 0.47 | 0.32 | 60.7 |
| 4/17/2015 20:33:41 | 40.68 | 39.38 | 1,103 | 0.47 | 0.32 | 60.3 |
| 4/17/2015 20:33:42 | 41.01 | 39.71 | 1,113 | 0.47 | 0.33 | 60.9 |
| 4/17/2015 20:33:42 | 41.34 | 40.04 | 1,113 | 0.47 | 0.33 | 60.9 |
| 4/17/2015 20:33:42 | 41.67 | 40.37 | 1,107 | 0.48 | 0.35 | 60.5 |
| 4/17/2015 20:34:02 | 41.99 | 40.69 | 50 | 4.45 | 0.44 | 2.7 |
| 4/17/2015 20:34:07 | 42.32 | 41.02 | 23 | 5.33 | 0.51 | 1.3 |
| 4/17/2015 20:34:15 | 42.65 | 41.35 | 63 | 4.59 | 0.48 | 3.5 |
| 4/17/2015 20:34:20 | 42.98 | 41.68 | 81 | 4.87 | 0.47 | 4.4 |
| 4/17/2015 20:34:26 | 43.31 | 42.01 | 64 | 4.65 | 0.45 | 3.5 |
| 4/17/2015 20:34:28 | 43.38 | 42.08 | 46 | 4.85 | 0.51 | 2.5 |

## C5 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 20:31:07

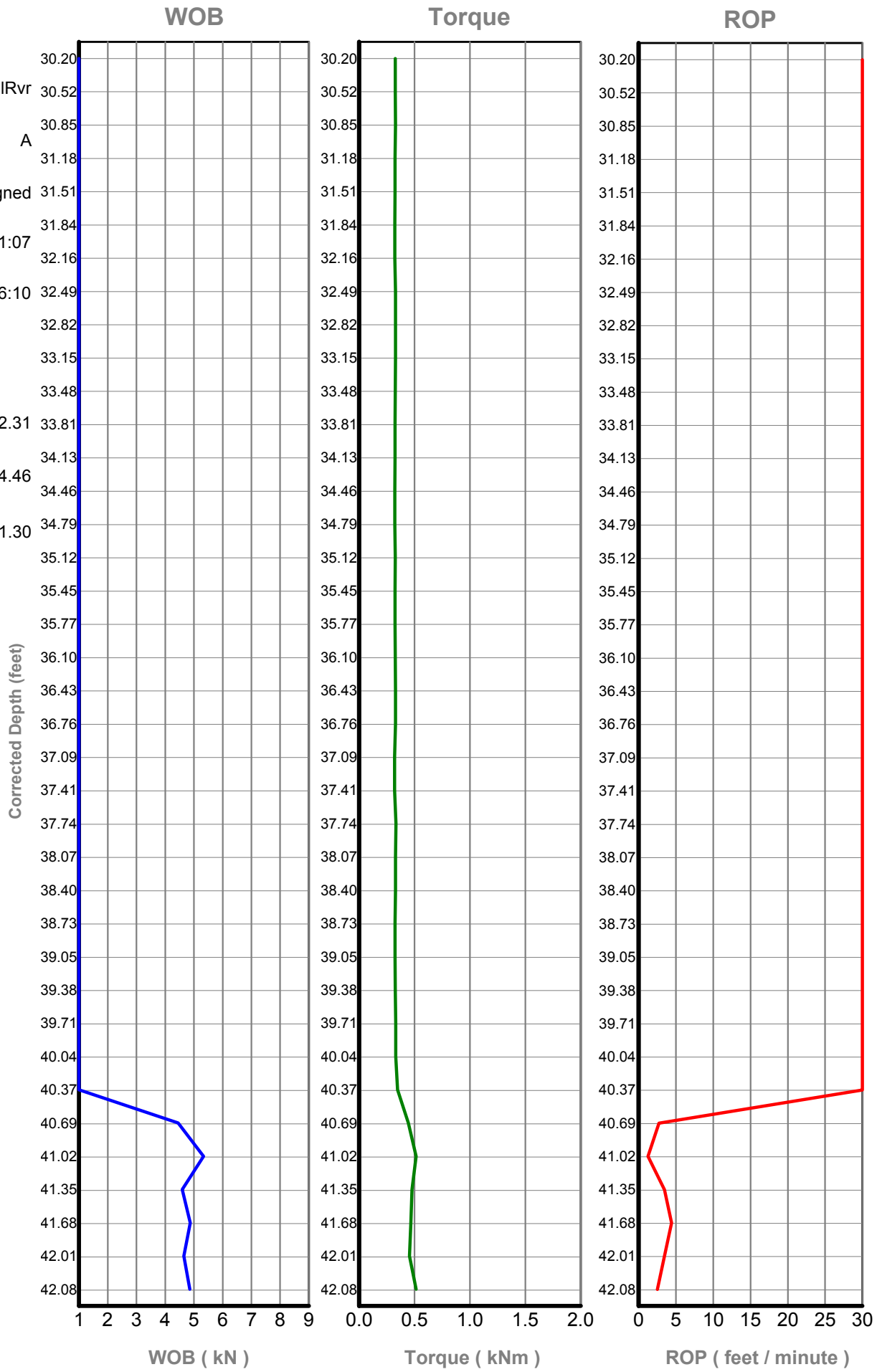
**End Date:**
4/17/2015 20:36:10

**Operator Note:**
'1.3 .4 a .4 a 1.3 a Auto Complete'

**Northing:**
371,252.31

**Easting:**
258,094.46

**Tide (feet):**
1.30



## Hole: C50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 2:18:03 | 35.76 | 30.26 | 994 | 1.09 | 0.34 | 54.4 |
| 4/18/2015 2:18:04 | 36.09 | 30.59 | 994 | 1.09 | 0.34 | 54.4 |
| 4/18/2015 2:18:04 | 36.42 | 30.92 | 991 | 1.09 | 0.34 | 54.2 |
| 4/18/2015 2:18:04 | 36.75 | 31.25 | 991 | 1.10 | 0.34 | 54.2 |
| 4/18/2015 2:18:05 | 37.07 | 31.57 | 991 | 1.10 | 0.34 | 54.2 |
| 4/18/2015 2:18:05 | 37.40 | 31.90 | 969 | 1.07 | 0.35 | 53.0 |
| 4/18/2015 2:18:05 | 37.73 | 32.23 | 969 | 1.09 | 0.35 | 53.0 |
| 4/18/2015 2:18:06 | 38.06 | 32.56 | 969 | 1.09 | 0.35 | 53.0 |
| 4/18/2015 2:18:06 | 38.39 | 32.89 | 977 | 1.07 | 0.34 | 53.4 |
| 4/18/2015 2:18:06 | 38.71 | 33.21 | 982 | 1.10 | 0.34 | 53.7 |
| 4/18/2015 2:18:07 | 39.04 | 33.54 | 980 | 1.07 | 0.35 | 53.6 |
| 4/18/2015 2:18:07 | 39.37 | 33.87 | 980 | 1.07 | 0.35 | 53.6 |
| 4/18/2015 2:18:07 | 39.70 | 34.20 | 983 | 1.09 | 0.34 | 53.7 |
| 4/18/2015 2:18:08 | 40.03 | 34.53 | 1,005 | 1.09 | 0.34 | 54.9 |
| 4/18/2015 2:18:08 | 40.35 | 34.85 | 1,005 | 1.09 | 0.34 | 54.9 |
| 4/18/2015 2:18:08 | 40.68 | 35.18 | 994 | 1.07 | 0.35 | 54.4 |
| 4/18/2015 2:18:09 | 41.01 | 35.51 | 989 | 1.10 | 0.34 | 54.1 |
| 4/18/2015 2:18:09 | 41.34 | 35.84 | 989 | 1.10 | 0.34 | 54.1 |
| 4/18/2015 2:18:09 | 41.67 | 36.17 | 994 | 1.07 | 0.34 | 54.4 |
| 4/18/2015 2:18:10 | 41.99 | 36.49 | 983 | 1.10 | 0.34 | 53.8 |
| 4/18/2015 2:18:11 | 42.32 | 36.82 | 983 | 1.10 | 0.34 | 53.8 |
| 4/18/2015 2:18:11 | 42.65 | 37.15 | 980 | 1.09 | 0.34 | 53.6 |
| 4/18/2015 2:18:11 | 42.98 | 37.48 | 980 | 1.09 | 0.34 | 53.6 |
| 4/18/2015 2:18:12 | 43.31 | 37.81 | 980 | 1.10 | 0.35 | 53.6 |
| 4/18/2015 2:18:12 | 43.64 | 38.14 | 980 | 1.10 | 0.35 | 53.6 |
| 4/18/2015 2:18:12 | 43.96 | 38.46 | 974 | 1.09 | 0.34 | 53.3 |
| 4/18/2015 2:18:13 | 44.29 | 38.79 | 980 | 1.10 | 0.35 | 53.6 |
| 4/18/2015 2:18:13 | 44.62 | 39.12 | 980 | 1.10 | 0.35 | 53.6 |
| 4/18/2015 2:18:13 | 44.95 | 39.45 | 980 | 1.06 | 0.34 | 53.6 |
| 4/18/2015 2:18:14 | 45.28 | 39.78 | 989 | 1.09 | 0.35 | 54.1 |
| 4/18/2015 2:18:14 | 45.60 | 40.10 | 989 | 1.09 | 0.35 | 54.1 |
| 4/18/2015 2:18:14 | 45.93 | 40.43 | 989 | 1.07 | 0.35 | 54.1 |
| 4/18/2015 2:18:15 | 46.26 | 40.76 | 992 | 1.07 | 0.35 | 54.2 |
| 4/18/2015 2:18:15 | 46.59 | 41.09 | 991 | 1.05 | 0.34 | 54.2 |
| 4/18/2015 2:18:16 | 46.92 | 41.42 | 991 | 1.05 | 0.34 | 54.2 |
| 4/18/2015 2:18:16 | 47.24 | 41.74 | 992 | 1.07 | 0.34 | 54.2 |
| 4/18/2015 2:18:16 | 47.57 | 42.07 | 989 | 1.11 | 0.35 | 54.1 |
| 4/18/2015 2:18:17 | 47.90 | 42.40 | 989 | 1.11 | 0.35 | 54.1 |
| 4/18/2015 2:18:17 | 48.23 | 42.73 | 991 | 1.06 | 0.34 | 54.2 |
| 4/18/2015 2:18:17 | 48.56 | 43.06 | 991 | 1.09 | 0.35 | 54.2 |
| 4/18/2015 2:18:18 | 48.88 | 43.38 | 991 | 1.09 | 0.35 | 54.2 |
| 4/18/2015 2:18:18 | 49.21 | 43.71 | 997 | 1.08 | 0.34 | 54.5 |
| 4/18/2015 2:18:18 | 49.54 | 44.04 | 997 | 1.08 | 0.34 | 54.5 |
| 4/18/2015 2:18:19 | 49.87 | 44.37 | 997 | 1.08 | 0.34 | 54.5 |
| 4/18/2015 2:18:19 | 50.20 | 44.70 | 986 | 1.12 | 0.35 | 53.9 |
| 4/18/2015 2:18:19 | 50.53 | 45.03 | 966 | 1.09 | 0.35 | 52.8 |
| 4/18/2015 2:18:20 | 50.85 | 45.35 | 945 | 1.11 | 0.36 | 51.7 |
| 4/18/2015 2:18:20 | 51.18 | 45.68 | 908 | 1.11 | 0.36 | 49.6 |
| 4/18/2015 2:18:21 | 51.51 | 46.01 | 908 | 1.11 | 0.36 | 49.6 |
| 4/18/2015 2:18:21 | 51.84 | 46.34 | 876 | 1.15 | 0.36 | 47.9 |
| 4/18/2015 2:18:22 | 52.17 | 46.67 | 764 | 2.38 | 0.42 | 41.8 |
| 4/18/2015 2:19:06 | 52.49 | 46.99 | 26 | 2.57 | 0.40 | 1.4 |
| 4/18/2015 2:19:07 | 52.82 | 47.32 | 160 | 2.74 | 0.41 | 8.7 |
| 4/18/2015 2:19:08 | 53.15 | 47.65 | 274 | 2.65 | 0.40 | 15.0 |
| 4/18/2015 2:19:09 | 53.48 | 47.98 | 324 | 2.51 | 0.40 | 17.7 |
| 4/18/2015 2:19:10 | 53.81 | 48.31 | 372 | 2.64 | 0.39 | 20.3 |
| 4/18/2015 2:19:11 | 54.13 | 48.63 | 404 | 2.65 | 0.39 | 22.1 |
| 4/18/2015 2:19:12 | 54.46 | 48.96 | 419 | 2.84 | 0.40 | 22.9 |
| 4/18/2015 2:19:13 | 54.79 | 49.29 | 367 | 3.26 | 0.40 | 20.1 |
| 4/18/2015 2:19:15 | 55.12 | 49.62 | 292 | 3.50 | 0.40 | 16.0 |
| 4/18/2015 2:19:16 | 55.45 | 49.95 | 289 | 2.87 | 0.40 | 15.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 2:19:17 | 55.77 | 50.27 | 248 | 2.82 | 0.41 | 13.6 |
| 4/18/2015 | 2:19:20 | 56.10 | 50.60 | 104 | 3.01 | 0.41 | 5.7 |
| 4/18/2015 | 2:19:24 | 56.43 | 50.93 | 93 | 3.04 | 0.42 | 5.1 |
| 4/18/2015 | 2:19:36 | 56.76 | 51.26 | 26 | 3.58 | 0.42 | 1.4 |
| 4/18/2015 | 2:19:38 | 57.09 | 51.59 | 162 | 3.54 | 0.40 | 8.9 |
| 4/18/2015 | 2:19:39 | 57.41 | 51.91 | 223 | 3.45 | 0.41 | 12.2 |
| 4/18/2015 | 2:19:45 | 57.74 | 52.24 | 36 | 3.78 | 0.40 | 2.0 |
| 4/18/2015 | 2:19:46 | 58.07 | 52.57 | 130 | 3.32 | 0.40 | 7.1 |
| 4/18/2015 | 2:19:48 | 58.40 | 52.90 | 250 | 3.02 | 0.41 | 13.7 |
| 4/18/2015 | 2:19:49 | 58.73 | 53.23 | 247 | 3.43 | 0.42 | 13.5 |
| 4/18/2015 | 2:19:56 | 58.94 | 53.44 | 38 | 3.33 | 0.41 | 2.1 |

## C50 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 2:12:27

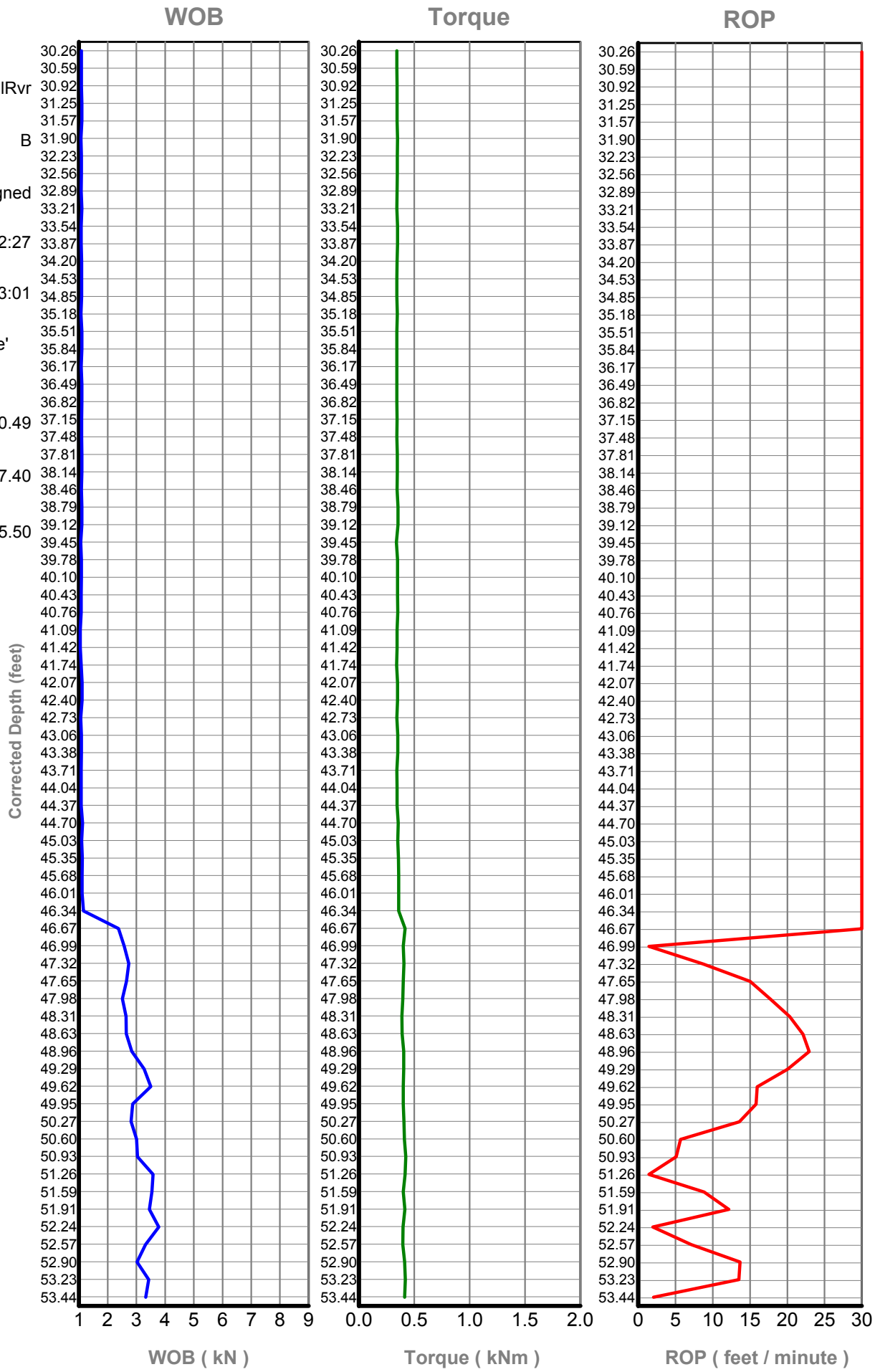
**End Date:**
4/18/2015 2:23:01

**Operator Note:**
'5.5 5.6 b Auto Complete'

**Northing:**
370,820.49

**Easting:**
257,877.40

**Tide (feet):**
5.50



## Hole: C51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 2:13:09 | 35.76 | 30.26 | 601 | 2.13 | 0.14 | 32.9 |
| 4/18/2015 2:13:10 | 36.09 | 30.59 | 604 | 2.14 | 0.14 | 33.0 |
| 4/18/2015 2:13:10 | 36.42 | 30.92 | 601 | 2.13 | 0.15 | 32.9 |
| 4/18/2015 2:13:11 | 36.75 | 31.25 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 2:13:12 | 37.07 | 31.57 | 601 | 1.98 | 0.14 | 32.9 |
| 4/18/2015 2:13:13 | 37.40 | 31.90 | 604 | 2.13 | 0.15 | 33.0 |
| 4/18/2015 2:13:13 | 37.73 | 32.23 | 601 | 2.13 | 0.14 | 32.9 |
| 4/18/2015 2:13:20 | 38.06 | 32.56 | 3 | 2.13 | 0.14 | 0.2 |
| 4/18/2015 2:13:20 | 38.39 | 32.89 | 73 | 2.14 | 0.14 | 4.0 |
| 4/18/2015 2:13:22 | 38.71 | 33.21 | 302 | 2.14 | 0.14 | 16.5 |
| 4/18/2015 2:13:22 | 39.04 | 33.54 | 417 | 2.15 | 0.14 | 22.8 |
| 4/18/2015 2:13:23 | 39.37 | 33.87 | 534 | 2.14 | 0.14 | 29.2 |
| 4/18/2015 2:13:23 | 39.70 | 34.20 | 578 | 2.14 | 0.14 | 31.6 |
| 4/18/2015 2:13:24 | 40.03 | 34.53 | 578 | 2.14 | 0.14 | 31.6 |
| 4/18/2015 2:13:24 | 40.35 | 34.85 | 581 | 2.14 | 0.14 | 31.8 |
| 4/18/2015 2:13:25 | 40.68 | 35.18 | 569 | 2.14 | 0.14 | 31.1 |
| 4/18/2015 2:13:26 | 41.01 | 35.51 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 2:13:26 | 41.34 | 35.84 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 2:13:27 | 41.67 | 36.17 | 571 | 2.15 | 0.14 | 31.2 |
| 4/18/2015 2:13:27 | 41.99 | 36.49 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 2:13:28 | 42.32 | 36.82 | 576 | 2.14 | 0.14 | 31.5 |
| 4/18/2015 2:13:29 | 42.65 | 37.15 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 2:13:29 | 42.98 | 37.48 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 2:13:30 | 43.31 | 37.81 | 579 | 2.15 | 0.14 | 31.7 |
| 4/18/2015 2:13:30 | 43.64 | 38.14 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 2:13:31 | 43.96 | 38.46 | 585 | 2.13 | 0.14 | 32.0 |
| 4/18/2015 2:13:32 | 44.29 | 38.79 | 582 | 2.14 | 0.14 | 31.8 |
| 4/18/2015 2:13:33 | 44.62 | 39.12 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 2:13:33 | 44.95 | 39.45 | 578 | 2.15 | 0.14 | 31.6 |
| 4/18/2015 2:13:34 | 45.28 | 39.78 | 575 | 2.13 | 0.14 | 31.5 |
| 4/18/2015 2:13:34 | 45.60 | 40.10 | 566 | 2.14 | 0.14 | 31.0 |
| 4/18/2015 2:13:35 | 45.93 | 40.43 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 2:13:36 | 46.26 | 40.76 | 566 | 2.13 | 0.14 | 30.9 |
| 4/18/2015 2:13:36 | 46.59 | 41.09 | 562 | 2.14 | 0.14 | 30.7 |
| 4/18/2015 2:13:37 | 46.92 | 41.42 | 566 | 2.14 | 0.14 | 31.0 |
| 4/18/2015 2:13:37 | 47.24 | 41.74 | 581 | 2.15 | 0.14 | 31.8 |
| 4/18/2015 2:13:38 | 47.57 | 42.07 | 589 | 2.13 | 0.14 | 32.2 |
| 4/18/2015 2:13:39 | 47.90 | 42.40 | 589 | 2.14 | 0.14 | 32.2 |
| 4/18/2015 2:13:39 | 48.23 | 42.73 | 582 | 2.14 | 0.14 | 31.8 |
| 4/18/2015 2:13:40 | 48.56 | 43.06 | 569 | 2.14 | 0.14 | 31.1 |
| 4/18/2015 2:13:40 | 48.88 | 43.38 | 569 | 2.14 | 0.14 | 31.1 |
| 4/18/2015 2:13:41 | 49.21 | 43.71 | 575 | 2.14 | 0.14 | 31.4 |
| 4/18/2015 2:13:42 | 49.54 | 44.04 | 568 | 2.14 | 0.14 | 31.1 |
| 4/18/2015 2:13:43 | 49.87 | 44.37 | 572 | 2.14 | 0.14 | 31.3 |
| 4/18/2015 2:13:43 | 50.20 | 44.70 | 581 | 2.14 | 0.14 | 31.8 |
| 4/18/2015 2:13:44 | 50.53 | 45.03 | 575 | 2.14 | 0.14 | 31.5 |
| 4/18/2015 2:13:45 | 50.85 | 45.35 | 569 | 2.11 | 0.14 | 31.1 |
| 4/18/2015 2:14:17 | 51.18 | 45.68 | 0 | 2.23 | 1.34 | 0.0 |
| 4/18/2015 2:14:21 | 51.51 | 46.01 | 88 | 2.15 | 1.15 | 4.8 |
| 4/18/2015 2:14:22 | 51.84 | 46.34 | 185 | 2.17 | 1.13 | 10.1 |
| 4/18/2015 2:14:23 | 52.17 | 46.67 | 377 | 2.19 | 1.23 | 20.6 |
| 4/18/2015 2:14:24 | 52.49 | 46.99 | 477 | 2.19 | 1.12 | 26.1 |
| 4/18/2015 2:14:24 | 52.82 | 47.32 | 483 | 2.18 | 1.05 | 26.4 |
| 4/18/2015 2:14:25 | 53.15 | 47.65 | 496 | 2.17 | 0.96 | 27.1 |
| 4/18/2015 2:14:26 | 53.48 | 47.98 | 511 | 2.17 | 0.96 | 27.9 |
| 4/18/2015 2:14:26 | 53.81 | 48.31 | 519 | 2.17 | 0.97 | 28.4 |
| 4/18/2015 2:14:27 | 54.13 | 48.63 | 536 | 2.17 | 0.95 | 29.3 |
| 4/18/2015 2:14:32 | 54.46 | 48.96 | 0 | 2.17 | 0.92 | 0.0 |
| 4/18/2015 2:14:32 | 54.79 | 49.29 | 56 | 2.17 | 0.91 | 3.0 |
| 4/18/2015 2:14:33 | 55.12 | 49.62 | 161 | 2.15 | 0.92 | 8.8 |
| 4/18/2015 2:14:36 | 55.45 | 49.95 | 95 | 2.17 | 0.96 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 2:14:37 | 55.77 | 50.27 | 138 | 2.21 | 0.95 | 7.6 |
| 4/18/2015 | 2:14:42 | 56.10 | 50.60 | 0 | 2.15 | 0.85 | 0.0 |
| 4/18/2015 | 2:14:43 | 56.43 | 50.93 | 112 | 2.17 | 0.94 | 6.1 |
| 4/18/2015 | 2:14:43 | 56.76 | 51.26 | 206 | 2.19 | 0.95 | 11.3 |
| 4/18/2015 | 2:14:44 | 57.09 | 51.59 | 397 | 2.15 | 0.86 | 21.7 |
| 4/18/2015 | 2:14:45 | 57.41 | 51.91 | 492 | 2.14 | 0.88 | 26.9 |
| 4/18/2015 | 2:14:48 | 57.74 | 52.24 | 149 | 2.14 | 0.85 | 8.1 |
| 4/18/2015 | 2:14:48 | 58.07 | 52.57 | 120 | 2.16 | 0.90 | 6.6 |
| 4/18/2015 | 2:14:49 | 58.40 | 52.90 | 297 | 2.14 | 0.85 | 16.3 |
| 4/18/2015 | 2:14:50 | 58.73 | 53.23 | 400 | 2.16 | 0.91 | 21.9 |
| 4/18/2015 | 2:14:50 | 59.06 | 53.56 | 503 | 2.14 | 0.87 | 27.5 |
| 4/18/2015 | 2:14:52 | 59.38 | 53.88 | 329 | 2.17 | 1.00 | 18.0 |
| 4/18/2015 | 2:14:54 | 59.71 | 54.21 | 233 | 2.08 | 0.85 | 12.7 |
| 4/18/2015 | 2:14:55 | 60.04 | 54.54 | 171 | 2.16 | 0.90 | 9.4 |
| 4/18/2015 | 2:14:56 | 60.37 | 54.87 | 247 | 2.16 | 0.87 | 13.5 |
| 4/18/2015 | 2:14:57 | 60.70 | 55.20 | 350 | 2.15 | 0.86 | 19.1 |
| 4/18/2015 | 2:14:57 | 60.92 | 55.42 | 456 | 2.30 | 0.91 | 24.9 |

## C51 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 2:10:48

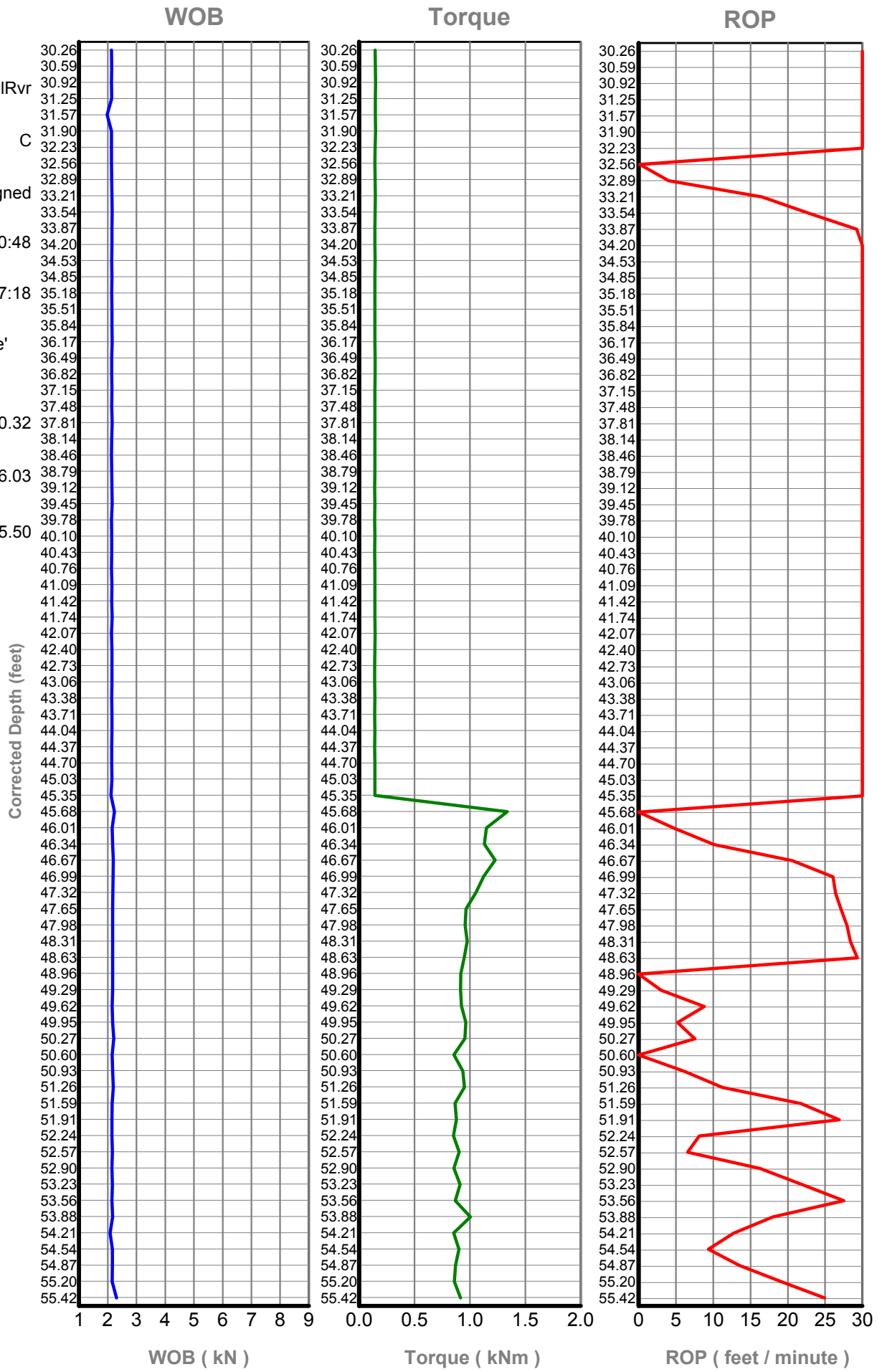
**End Date:**
4/18/2015 2:17:18

**Operator Note:**
'5.5 5.6 c Auto Complete'

**Northing:**
370,850.32

**Easting:**
257,946.03

**Tide (feet):**
5.50



## Hole: C52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 23:22:18 | 36.09 | 30.29 | 1,059 | 0.17 | 0.34 | 57.9 |
| 4/17/2015 23:22:18 | 36.42 | 30.62 | 1,059 | 0.17 | 0.34 | 57.9 |
| 4/17/2015 23:22:18 | 36.75 | 30.95 | 1,044 | 0.17 | 0.34 | 57.1 |
| 4/17/2015 23:22:19 | 37.07 | 31.27 | 1,038 | 0.17 | 0.34 | 56.8 |
| 4/17/2015 23:22:19 | 37.40 | 31.60 | 1,038 | 0.17 | 0.34 | 56.8 |
| 4/17/2015 23:22:19 | 37.73 | 31.93 | 1,044 | 0.18 | 0.34 | 57.1 |
| 4/17/2015 23:22:20 | 38.06 | 32.26 | 1,047 | 0.17 | 0.34 | 57.3 |
| 4/17/2015 23:22:21 | 38.39 | 32.59 | 1,047 | 0.17 | 0.34 | 57.3 |
| 4/17/2015 23:22:21 | 38.71 | 32.91 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/17/2015 23:22:21 | 39.04 | 33.24 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/17/2015 23:22:22 | 39.37 | 33.57 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/17/2015 23:22:22 | 39.70 | 33.90 | 1,041 | 0.18 | 0.33 | 56.9 |
| 4/17/2015 23:22:22 | 40.03 | 34.23 | 1,041 | 0.18 | 0.34 | 56.9 |
| 4/17/2015 23:22:23 | 40.35 | 34.55 | 1,041 | 0.18 | 0.34 | 56.9 |
| 4/17/2015 23:22:23 | 40.68 | 34.88 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/17/2015 23:22:23 | 41.01 | 35.21 | 1,035 | 0.18 | 0.33 | 56.6 |
| 4/17/2015 23:22:24 | 41.34 | 35.54 | 1,035 | 0.18 | 0.33 | 56.6 |
| 4/17/2015 23:22:24 | 41.67 | 35.87 | 1,038 | 0.18 | 0.34 | 56.7 |
| 4/17/2015 23:22:24 | 41.99 | 36.19 | 1,038 | 0.18 | 0.34 | 56.8 |
| 4/17/2015 23:22:25 | 42.32 | 36.52 | 1,038 | 0.18 | 0.34 | 56.8 |
| 4/17/2015 23:22:25 | 42.65 | 36.85 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/17/2015 23:22:25 | 42.98 | 37.18 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/17/2015 23:22:26 | 43.31 | 37.51 | 1,029 | 0.18 | 0.34 | 56.3 |
| 4/17/2015 23:22:26 | 43.64 | 37.84 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/17/2015 23:22:26 | 43.96 | 38.16 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/17/2015 23:22:27 | 44.29 | 38.49 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/17/2015 23:22:27 | 44.62 | 38.82 | 1,029 | 0.23 | 0.33 | 56.3 |
| 4/17/2015 23:22:27 | 44.95 | 39.15 | 1,026 | 0.18 | 0.33 | 56.1 |
| 4/17/2015 23:22:28 | 45.28 | 39.48 | 1,026 | 0.18 | 0.33 | 56.1 |
| 4/17/2015 23:22:28 | 45.60 | 39.80 | 1,023 | 0.18 | 0.33 | 55.9 |
| 4/17/2015 23:22:28 | 45.93 | 40.13 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/17/2015 23:22:29 | 46.26 | 40.46 | 1,035 | 0.18 | 0.34 | 56.6 |
| 4/17/2015 23:22:29 | 46.59 | 40.79 | 1,032 | 0.18 | 0.34 | 56.4 |
| 4/17/2015 23:22:29 | 46.92 | 41.12 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/17/2015 23:22:30 | 47.24 | 41.44 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/17/2015 23:22:30 | 47.57 | 41.77 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/17/2015 23:22:31 | 47.90 | 42.10 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/17/2015 23:22:31 | 48.23 | 42.43 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/17/2015 23:22:31 | 48.56 | 42.76 | 1,026 | 0.19 | 0.34 | 56.1 |
| 4/17/2015 23:22:32 | 48.88 | 43.08 | 1,026 | 0.19 | 0.34 | 56.1 |
| 4/17/2015 23:22:32 | 49.21 | 43.41 | 1,051 | 0.18 | 0.34 | 57.5 |
| 4/17/2015 23:22:32 | 49.54 | 43.74 | 1,036 | 0.18 | 0.35 | 56.6 |
| 4/17/2015 23:22:33 | 49.87 | 44.07 | 1,036 | 0.18 | 0.35 | 56.6 |
| 4/17/2015 23:22:33 | 50.20 | 44.40 | 1,049 | 0.18 | 0.34 | 57.3 |
| 4/17/2015 23:22:33 | 50.53 | 44.73 | 1,063 | 0.18 | 0.34 | 58.1 |
| 4/17/2015 23:22:34 | 50.85 | 45.05 | 1,063 | 0.18 | 0.34 | 58.1 |
| 4/17/2015 23:22:34 | 51.18 | 45.38 | 1,047 | 0.17 | 0.34 | 57.2 |
| 4/17/2015 23:22:34 | 51.51 | 45.71 | 1,040 | 0.17 | 0.33 | 56.9 |
| 4/17/2015 23:22:35 | 51.84 | 46.04 | 1,040 | 0.17 | 0.33 | 56.9 |
| 4/17/2015 23:22:35 | 52.17 | 46.37 | 1,031 | 0.16 | 0.34 | 56.4 |
| 4/17/2015 23:22:35 | 52.49 | 46.69 | 1,025 | 0.17 | 0.34 | 56.1 |
| 4/17/2015 23:22:36 | 52.82 | 47.02 | 1,025 | 0.17 | 0.34 | 56.1 |
| 4/17/2015 23:22:36 | 53.15 | 47.35 | 1,029 | 0.16 | 0.34 | 56.3 |
| 4/17/2015 23:22:36 | 53.48 | 47.68 | 1,062 | 0.16 | 0.34 | 58.0 |
| 4/17/2015 23:22:37 | 53.81 | 48.01 | 1,062 | 0.16 | 0.34 | 58.0 |
| 4/17/2015 23:22:37 | 54.13 | 48.33 | 1,049 | 0.14 | 0.35 | 57.4 |
| 4/17/2015 23:23:10 | 54.46 | 48.66 | 52 | 3.20 | 0.42 | 2.9 |
| 4/17/2015 23:23:14 | 54.79 | 48.99 | 87 | 5.71 | 0.39 | 4.8 |
| 4/17/2015 23:23:16 | 55.12 | 49.32 | 153 | 3.94 | 0.40 | 8.4 |
| 4/17/2015 23:23:18 | 55.45 | 49.65 | 236 | 3.41 | 0.39 | 12.9 |
| 4/17/2015 23:23:18 | 55.77 | 49.97 | 269 | 2.84 | 0.39 | 14.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 23:23:20 | 56.10 | 50.30 | 255 | 3.03 | 0.42 | 14.0 |
| 4/17/2015 | 23:23:29 | 56.43 | 50.63 | 73 | 2.63 | 0.38 | 4.0 |
| 4/17/2015 | 23:23:29 | 56.76 | 50.96 | 173 | 2.82 | 0.39 | 9.5 |
| 4/17/2015 | 23:23:30 | 57.09 | 51.29 | 268 | 3.78 | 0.38 | 14.6 |
| 4/17/2015 | 23:23:31 | 57.41 | 51.61 | 472 | 3.01 | 0.40 | 25.8 |
| 4/17/2015 | 23:23:31 | 57.74 | 51.94 | 486 | 2.14 | 0.39 | 26.6 |
| 4/17/2015 | 23:23:33 | 58.07 | 52.27 | 479 | 2.18 | 0.37 | 26.2 |
| 4/17/2015 | 23:23:33 | 58.40 | 52.60 | 511 | 1.93 | 0.37 | 27.9 |
| 4/17/2015 | 23:23:34 | 58.73 | 52.93 | 555 | 1.89 | 0.36 | 30.3 |
| 4/17/2015 | 23:23:34 | 59.06 | 53.26 | 582 | 2.01 | 0.37 | 31.8 |
| 4/17/2015 | 23:23:35 | 59.38 | 53.58 | 582 | 1.93 | 0.37 | 31.8 |
| 4/17/2015 | 23:23:35 | 59.71 | 53.91 | 642 | 1.98 | 0.43 | 35.1 |
| 4/17/2015 | 23:23:37 | 60.04 | 54.24 | 486 | 1.78 | 0.38 | 26.6 |
| 4/17/2015 | 23:23:37 | 60.37 | 54.57 | 437 | 1.80 | 0.38 | 23.9 |
| 4/17/2015 | 23:23:38 | 60.70 | 54.90 | 337 | 1.74 | 0.36 | 18.4 |

## C52 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 23:17:57

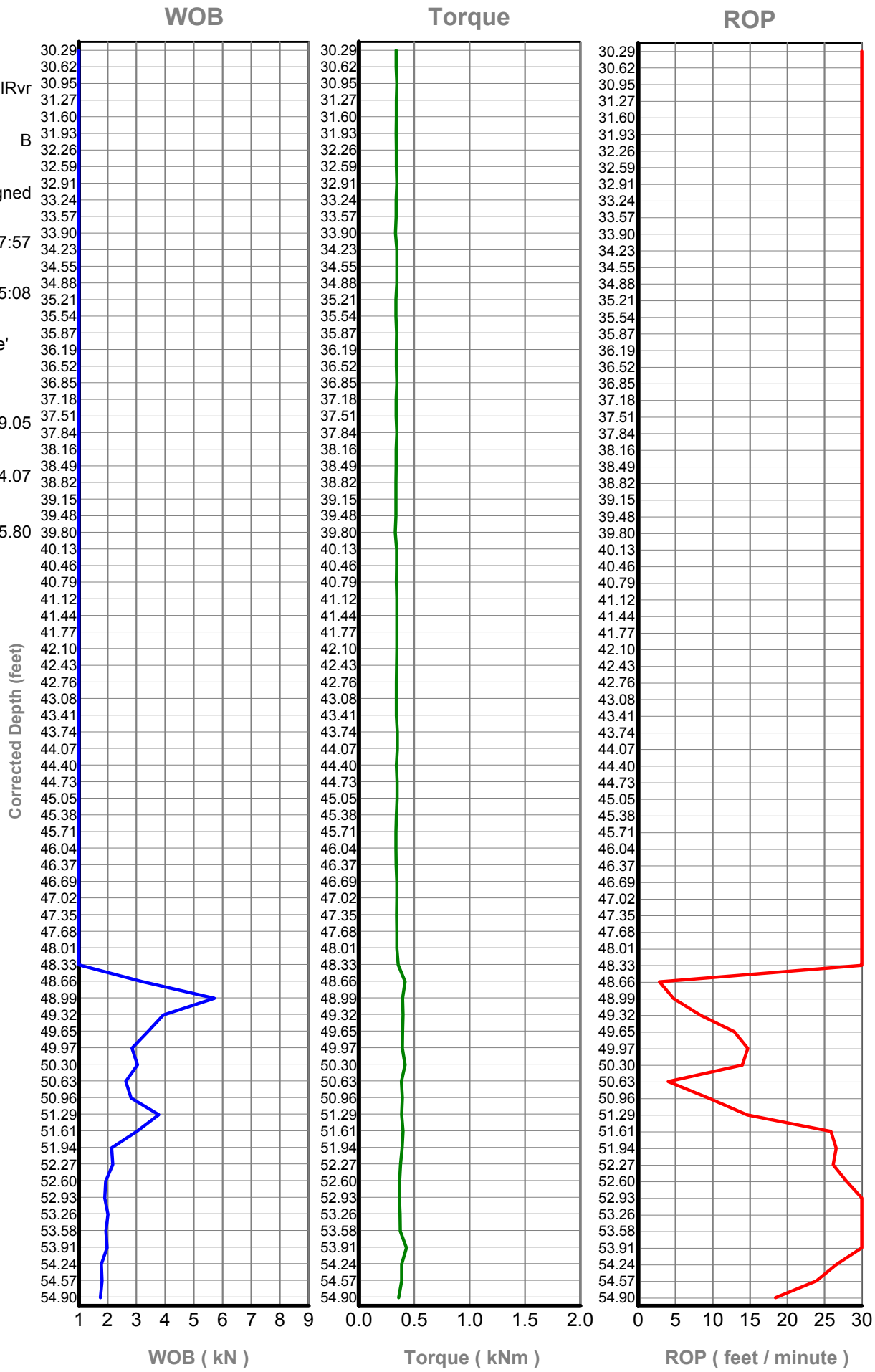
**End Date:**
4/17/2015 23:25:08

**Operator Note:**
'5.8 5.5 b Auto Complete'

**Northing:**
370,889.05

**Easting:**
258,034.07

**Tide (feet):**
5.80



## Hole: C53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 22:44:51 | 35.11 | 30.01 | 921 | 0.23 | 0.35 | 50.3 |
| 4/17/2015 22:44:52 | 35.43 | 30.33 | 932 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:44:52 | 35.76 | 30.66 | 932 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:44:52 | 36.09 | 30.99 | 921 | 0.20 | 0.35 | 50.4 |
| 4/17/2015 22:44:53 | 36.42 | 31.32 | 926 | 0.21 | 0.37 | 50.7 |
| 4/17/2015 22:44:53 | 36.75 | 31.65 | 921 | 0.20 | 0.35 | 50.4 |
| 4/17/2015 22:44:54 | 37.07 | 31.97 | 921 | 0.20 | 0.35 | 50.4 |
| 4/17/2015 22:44:54 | 37.40 | 32.30 | 940 | 0.20 | 0.35 | 51.4 |
| 4/17/2015 22:44:54 | 37.73 | 32.63 | 912 | 0.20 | 0.35 | 49.9 |
| 4/17/2015 22:44:55 | 38.06 | 32.96 | 912 | 0.20 | 0.35 | 49.9 |
| 4/17/2015 22:44:55 | 38.39 | 33.29 | 912 | 0.20 | 0.35 | 49.9 |
| 4/17/2015 22:44:55 | 38.71 | 33.61 | 919 | 0.20 | 0.35 | 50.2 |
| 4/17/2015 22:44:56 | 39.04 | 33.94 | 925 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:44:56 | 39.37 | 34.27 | 925 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:44:56 | 39.70 | 34.60 | 930 | 0.21 | 0.35 | 50.9 |
| 4/17/2015 22:44:57 | 40.03 | 34.93 | 899 | 0.20 | 0.35 | 49.1 |
| 4/17/2015 22:44:57 | 40.35 | 35.25 | 920 | 0.20 | 0.35 | 50.3 |
| 4/17/2015 22:44:58 | 40.68 | 35.58 | 920 | 0.20 | 0.35 | 50.3 |
| 4/17/2015 22:44:58 | 41.01 | 35.91 | 908 | 0.20 | 0.35 | 49.7 |
| 4/17/2015 22:44:58 | 41.34 | 36.24 | 908 | 0.20 | 0.35 | 49.7 |
| 4/17/2015 22:44:59 | 41.67 | 36.57 | 897 | 0.20 | 0.35 | 49.1 |
| 4/17/2015 22:44:59 | 41.99 | 36.89 | 897 | 0.20 | 0.35 | 49.1 |
| 4/17/2015 22:44:59 | 42.32 | 37.22 | 897 | 0.20 | 0.36 | 49.1 |
| 4/17/2015 22:45:00 | 42.65 | 37.55 | 915 | 0.20 | 0.35 | 50.0 |
| 4/17/2015 22:45:00 | 42.98 | 37.88 | 939 | 0.22 | 0.36 | 51.3 |
| 4/17/2015 22:45:01 | 43.31 | 38.21 | 939 | 0.22 | 0.36 | 51.3 |
| 4/17/2015 22:45:01 | 43.64 | 38.54 | 930 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:02 | 43.96 | 38.86 | 930 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:02 | 44.29 | 39.19 | 941 | 0.20 | 0.35 | 51.5 |
| 4/17/2015 22:45:03 | 44.62 | 39.52 | 941 | 0.20 | 0.35 | 51.5 |
| 4/17/2015 22:45:03 | 44.95 | 39.85 | 925 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:45:03 | 45.28 | 40.18 | 928 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:04 | 45.60 | 40.50 | 928 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:04 | 45.93 | 40.83 | 918 | 0.42 | 0.35 | 50.2 |
| 4/17/2015 22:45:04 | 46.26 | 41.16 | 918 | 0.20 | 0.35 | 50.2 |
| 4/17/2015 22:45:05 | 46.59 | 41.49 | 933 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:45:05 | 46.92 | 41.82 | 933 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:45:05 | 47.24 | 42.14 | 930 | 0.20 | 0.35 | 50.9 |
| 4/17/2015 22:45:06 | 47.57 | 42.47 | 915 | 0.20 | 0.35 | 50.0 |
| 4/17/2015 22:45:06 | 47.90 | 42.80 | 929 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:07 | 48.23 | 43.13 | 929 | 0.20 | 0.35 | 50.8 |
| 4/17/2015 22:45:07 | 48.56 | 43.46 | 922 | 0.20 | 0.35 | 50.4 |
| 4/17/2015 22:45:07 | 48.88 | 43.78 | 923 | 0.21 | 0.35 | 50.5 |
| 4/17/2015 22:45:08 | 49.21 | 44.11 | 930 | 0.20 | 0.37 | 50.8 |
| 4/17/2015 22:45:08 | 49.54 | 44.44 | 930 | 0.20 | 0.37 | 50.8 |
| 4/17/2015 22:45:08 | 49.87 | 44.77 | 925 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:45:09 | 50.20 | 45.10 | 925 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:45:09 | 50.53 | 45.43 | 925 | 0.22 | 0.35 | 50.6 |
| 4/17/2015 22:45:10 | 50.85 | 45.75 | 925 | 0.22 | 0.35 | 50.6 |
| 4/17/2015 22:45:10 | 51.18 | 46.08 | 935 | 0.20 | 0.35 | 51.1 |
| 4/17/2015 22:45:10 | 51.51 | 46.41 | 932 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:45:11 | 51.84 | 46.74 | 932 | 0.20 | 0.35 | 51.0 |
| 4/17/2015 22:45:11 | 52.17 | 47.07 | 926 | 0.20 | 0.35 | 50.6 |
| 4/17/2015 22:45:12 | 52.49 | 47.39 | 941 | 0.20 | 0.35 | 51.4 |
| 4/17/2015 22:45:12 | 52.82 | 47.72 | 920 | 0.19 | 0.37 | 50.3 |
| 4/17/2015 22:45:13 | 53.15 | 48.05 | 913 | 0.18 | 0.44 | 49.9 |
| 4/17/2015 22:46:10 | 53.48 | 48.38 | 6 | 3.31 | 0.39 | 0.3 |
| 4/17/2015 22:46:11 | 53.81 | 48.71 | 142 | 3.35 | 0.42 | 7.8 |
| 4/17/2015 22:46:11 | 54.13 | 49.03 | 233 | 2.81 | 0.38 | 12.8 |
| 4/17/2015 22:46:12 | 54.46 | 49.36 | 342 | 3.28 | 0.39 | 18.7 |
| 4/17/2015 22:46:12 | 54.79 | 49.69 | 462 | 2.27 | 0.37 | 25.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 22:46:13 | 55.12 | 50.02 | 552 | 3.47 | 0.41 | 30.2 |
| 4/17/2015 | 22:46:18 | 55.45 | 50.35 | 70 | 5.13 | 0.44 | 3.8 |
| 4/17/2015 | 22:46:19 | 55.77 | 50.67 | 169 | 2.21 | 0.37 | 9.2 |
| 4/17/2015 | 22:46:19 | 56.10 | 51.00 | 286 | 2.21 | 0.37 | 15.6 |
| 4/17/2015 | 22:46:20 | 56.43 | 51.33 | 403 | 2.51 | 0.38 | 22.0 |
| 4/17/2015 | 22:46:20 | 56.76 | 51.66 | 494 | 2.34 | 0.37 | 27.0 |
| 4/17/2015 | 22:46:21 | 57.09 | 51.99 | 580 | 2.23 | 0.37 | 31.7 |
| 4/17/2015 | 22:46:21 | 57.41 | 52.31 | 641 | 2.36 | 0.38 | 35.0 |
| 4/17/2015 | 22:46:22 | 57.74 | 52.64 | 646 | 2.67 | 0.39 | 35.3 |
| 4/17/2015 | 22:46:22 | 58.07 | 52.97 | 618 | 2.29 | 0.37 | 33.8 |
| 4/17/2015 | 22:46:23 | 58.40 | 53.30 | 615 | 2.85 | 0.39 | 33.6 |
| 4/17/2015 | 22:46:24 | 58.73 | 53.63 | 592 | 2.36 | 0.39 | 32.4 |
| 4/17/2015 | 22:46:25 | 59.06 | 53.96 | 585 | 2.31 | 0.38 | 32.0 |
| 4/17/2015 | 22:46:25 | 59.38 | 54.28 | 596 | 2.75 | 0.39 | 32.6 |
| 4/17/2015 | 22:46:26 | 59.71 | 54.61 | 572 | 2.38 | 0.38 | 31.3 |
| 4/17/2015 | 22:46:51 | 60.00 | 54.90 | 0 | 2.06 | 0.37 | 0.0 |

## C53 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 22:42:12

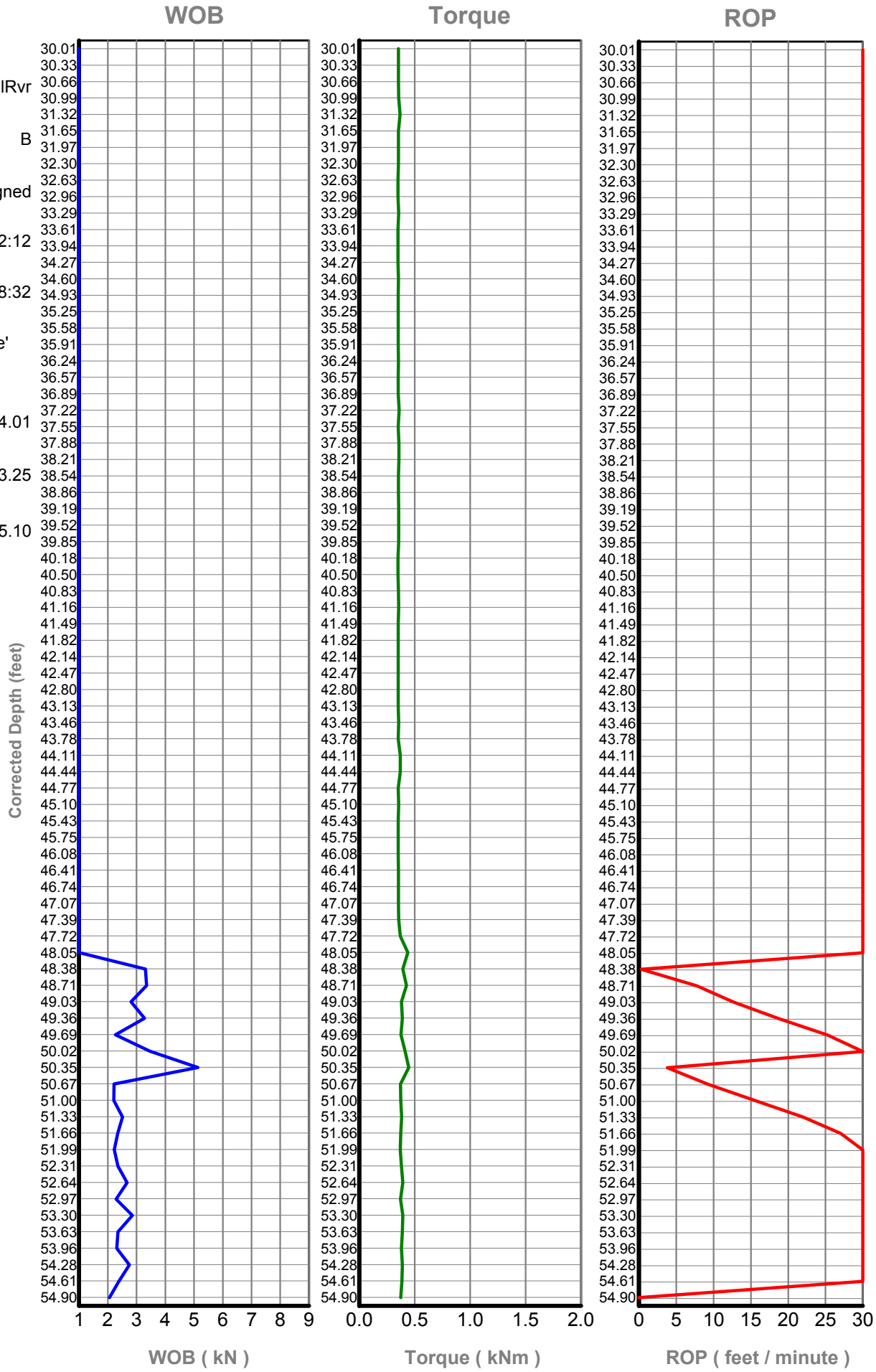
**End Date:**
4/17/2015 22:48:32

**Operator Note:**
'5.1 4.8 b Auto Complete'

**Northing:**
370,914.01

**Easting:**
258,103.25

**Tide (feet):**
5.10



## Hole: C54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 1:44:48 | 36.42 | 30.32 | 1,007 | 0.83 | 0.38 | 55.0 |
| 4/18/2015 1:44:49 | 36.75 | 30.65 | 1,007 | 0.83 | 0.38 | 55.0 |
| 4/18/2015 1:44:49 | 37.07 | 30.97 | 1,004 | 0.82 | 0.38 | 54.9 |
| 4/18/2015 1:44:49 | 37.40 | 31.30 | 1,010 | 0.83 | 0.39 | 55.2 |
| 4/18/2015 1:44:50 | 37.73 | 31.63 | 1,010 | 0.83 | 0.39 | 55.2 |
| 4/18/2015 1:44:50 | 38.06 | 31.96 | 1,007 | 0.81 | 0.38 | 55.0 |
| 4/18/2015 1:44:50 | 38.39 | 32.29 | 1,004 | 0.83 | 0.37 | 54.9 |
| 4/18/2015 1:44:51 | 38.71 | 32.61 | 1,004 | 0.83 | 0.37 | 54.9 |
| 4/18/2015 1:44:51 | 39.04 | 32.94 | 1,009 | 0.82 | 0.38 | 55.2 |
| 4/18/2015 1:44:52 | 39.37 | 33.27 | 1,000 | 0.75 | 0.35 | 54.7 |
| 4/18/2015 1:44:52 | 39.70 | 33.60 | 1,000 | 0.75 | 0.35 | 54.7 |
| 4/18/2015 1:44:52 | 40.03 | 33.93 | 1,006 | 0.78 | 0.35 | 55.0 |
| 4/18/2015 1:44:53 | 40.35 | 34.25 | 997 | 0.79 | 0.35 | 54.5 |
| 4/18/2015 1:44:53 | 40.68 | 34.58 | 997 | 0.79 | 0.35 | 54.5 |
| 4/18/2015 1:44:53 | 41.01 | 34.91 | 991 | 0.77 | 0.35 | 54.2 |
| 4/18/2015 1:44:54 | 41.34 | 35.24 | 994 | 0.78 | 0.35 | 54.4 |
| 4/18/2015 1:44:54 | 41.67 | 35.57 | 994 | 0.78 | 0.35 | 54.4 |
| 4/18/2015 1:44:54 | 41.99 | 35.89 | 992 | 0.77 | 0.36 | 54.2 |
| 4/18/2015 1:44:55 | 42.32 | 36.22 | 974 | 0.77 | 0.35 | 53.3 |
| 4/18/2015 1:44:55 | 42.65 | 36.55 | 974 | 0.76 | 0.35 | 53.3 |
| 4/18/2015 1:44:56 | 42.98 | 36.88 | 974 | 0.76 | 0.35 | 53.3 |
| 4/18/2015 1:44:56 | 43.31 | 37.21 | 974 | 0.79 | 0.34 | 53.3 |
| 4/18/2015 1:44:56 | 43.64 | 37.54 | 977 | 0.77 | 0.35 | 53.4 |
| 4/18/2015 1:44:57 | 43.96 | 37.86 | 977 | 0.77 | 0.35 | 53.4 |
| 4/18/2015 1:44:57 | 44.29 | 38.19 | 969 | 0.78 | 0.35 | 53.0 |
| 4/18/2015 1:44:57 | 44.62 | 38.52 | 977 | 0.79 | 0.35 | 53.4 |
| 4/18/2015 1:44:58 | 44.95 | 38.85 | 980 | 0.80 | 0.35 | 53.6 |
| 4/18/2015 1:44:58 | 45.28 | 39.18 | 980 | 0.80 | 0.35 | 53.6 |
| 4/18/2015 1:44:58 | 45.60 | 39.50 | 986 | 0.77 | 0.31 | 53.9 |
| 4/18/2015 1:44:59 | 45.93 | 39.83 | 986 | 0.79 | 0.35 | 53.9 |
| 4/18/2015 1:45:00 | 46.26 | 40.16 | 986 | 0.79 | 0.35 | 53.9 |
| 4/18/2015 1:44:59 | 46.59 | 40.49 | 967 | 0.79 | 0.34 | 52.9 |
| 4/18/2015 1:45:00 | 46.92 | 40.82 | 967 | 0.77 | 0.35 | 52.9 |
| 4/18/2015 1:45:00 | 47.24 | 41.14 | 967 | 0.77 | 0.35 | 52.9 |
| 4/18/2015 1:45:00 | 47.57 | 41.47 | 986 | 0.78 | 0.34 | 53.9 |
| 4/18/2015 1:45:01 | 47.90 | 41.80 | 988 | 0.77 | 0.34 | 54.0 |
| 4/18/2015 1:45:01 | 48.23 | 42.13 | 988 | 0.77 | 0.34 | 54.0 |
| 4/18/2015 1:45:02 | 48.56 | 42.46 | 992 | 0.77 | 0.34 | 54.2 |
| 4/18/2015 1:45:02 | 48.88 | 42.78 | 985 | 0.76 | 0.34 | 53.9 |
| 4/18/2015 1:45:03 | 49.21 | 43.11 | 985 | 0.76 | 0.34 | 53.9 |
| 4/18/2015 1:45:03 | 49.54 | 43.44 | 1,019 | 1.05 | 0.34 | 55.7 |
| 4/18/2015 1:45:03 | 49.87 | 43.77 | 1,006 | 0.77 | 0.35 | 55.0 |
| 4/18/2015 1:45:04 | 50.20 | 44.10 | 1,003 | 0.77 | 0.34 | 54.8 |
| 4/18/2015 1:45:04 | 50.53 | 44.43 | 1,003 | 0.77 | 0.34 | 54.8 |
| 4/18/2015 1:45:04 | 50.85 | 44.75 | 997 | 0.77 | 0.34 | 54.5 |
| 4/18/2015 1:45:05 | 51.18 | 45.08 | 1,009 | 0.77 | 0.35 | 55.2 |
| 4/18/2015 1:45:05 | 51.51 | 45.41 | 1,009 | 0.77 | 0.35 | 55.2 |
| 4/18/2015 1:45:05 | 51.84 | 45.74 | 995 | 0.77 | 0.36 | 54.4 |
| 4/18/2015 1:45:06 | 52.17 | 46.07 | 965 | 0.78 | 0.36 | 52.8 |
| 4/18/2015 1:45:06 | 52.49 | 46.39 | 934 | 0.79 | 0.36 | 51.1 |
| 4/18/2015 1:45:07 | 52.82 | 46.72 | 934 | 0.79 | 0.36 | 51.1 |
| 4/18/2015 1:45:07 | 53.15 | 47.05 | 905 | 0.78 | 0.37 | 49.5 |
| 4/18/2015 1:45:07 | 53.48 | 47.38 | 867 | 0.78 | 0.36 | 47.4 |
| 4/18/2015 1:45:08 | 53.81 | 47.71 | 837 | 0.82 | 0.38 | 45.8 |
| 4/18/2015 1:45:42 | 54.13 | 48.03 | 84 | 4.07 | 0.41 | 4.6 |
| 4/18/2015 1:45:52 | 54.46 | 48.36 | 47 | 4.06 | 0.42 | 2.6 |
| 4/18/2015 1:45:54 | 54.79 | 48.69 | 146 | 2.81 | 0.40 | 8.0 |
| 4/18/2015 1:45:56 | 55.12 | 49.02 | 217 | 2.87 | 0.41 | 11.9 |
| 4/18/2015 1:45:57 | 55.45 | 49.35 | 208 | 2.63 | 0.40 | 11.3 |
| 4/18/2015 1:45:59 | 55.77 | 49.67 | 241 | 2.75 | 0.41 | 13.2 |
| 4/18/2015 1:46:00 | 56.10 | 50.00 | 299 | 2.76 | 0.40 | 16.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 1:46:01 | 56.43 | 50.33 | 331 | 3.10 | 0.39 | 18.1 |
| 4/18/2015 | 1:46:02 | 56.76 | 50.66 | 361 | 5.48 | 0.35 | 19.8 |
| 4/18/2015 | 1:46:05 | 57.09 | 50.99 | 197 | 4.49 | 0.42 | 10.8 |
| 4/18/2015 | 1:46:12 | 57.41 | 51.31 | 26 | 3.64 | 0.38 | 1.4 |
| 4/18/2015 | 1:46:13 | 57.74 | 51.64 | 133 | 4.49 | 0.40 | 7.3 |
| 4/18/2015 | 1:46:15 | 58.07 | 51.97 | 260 | 3.47 | 0.41 | 14.2 |
| 4/18/2015 | 1:46:17 | 58.40 | 52.30 | 197 | 3.35 | 0.40 | 10.8 |
| 4/18/2015 | 1:46:18 | 58.73 | 52.63 | 220 | 3.33 | 0.40 | 12.0 |
| 4/18/2015 | 1:46:19 | 59.06 | 52.96 | 274 | 3.18 | 0.41 | 15.0 |
| 4/18/2015 | 1:46:21 | 59.38 | 53.28 | 263 | 3.18 | 0.41 | 14.4 |
| 4/18/2015 | 1:46:24 | 59.71 | 53.61 | 122 | 2.94 | 0.42 | 6.7 |
| 4/18/2015 | 1:46:29 | 60.04 | 53.94 | 79 | 2.95 | 0.42 | 4.3 |
| 4/18/2015 | 1:46:34 | 60.37 | 54.27 | 62 | 3.01 | 0.42 | 3.4 |
| 4/18/2015 | 1:46:45 | 60.70 | 54.60 | 27 | 6.16 | 0.42 | 1.5 |
| 4/18/2015 | 1:48:48 | 60.93 | 54.83 | 15 | 3.49 | 0.43 | 0.8 |

## C54 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 1:39:51

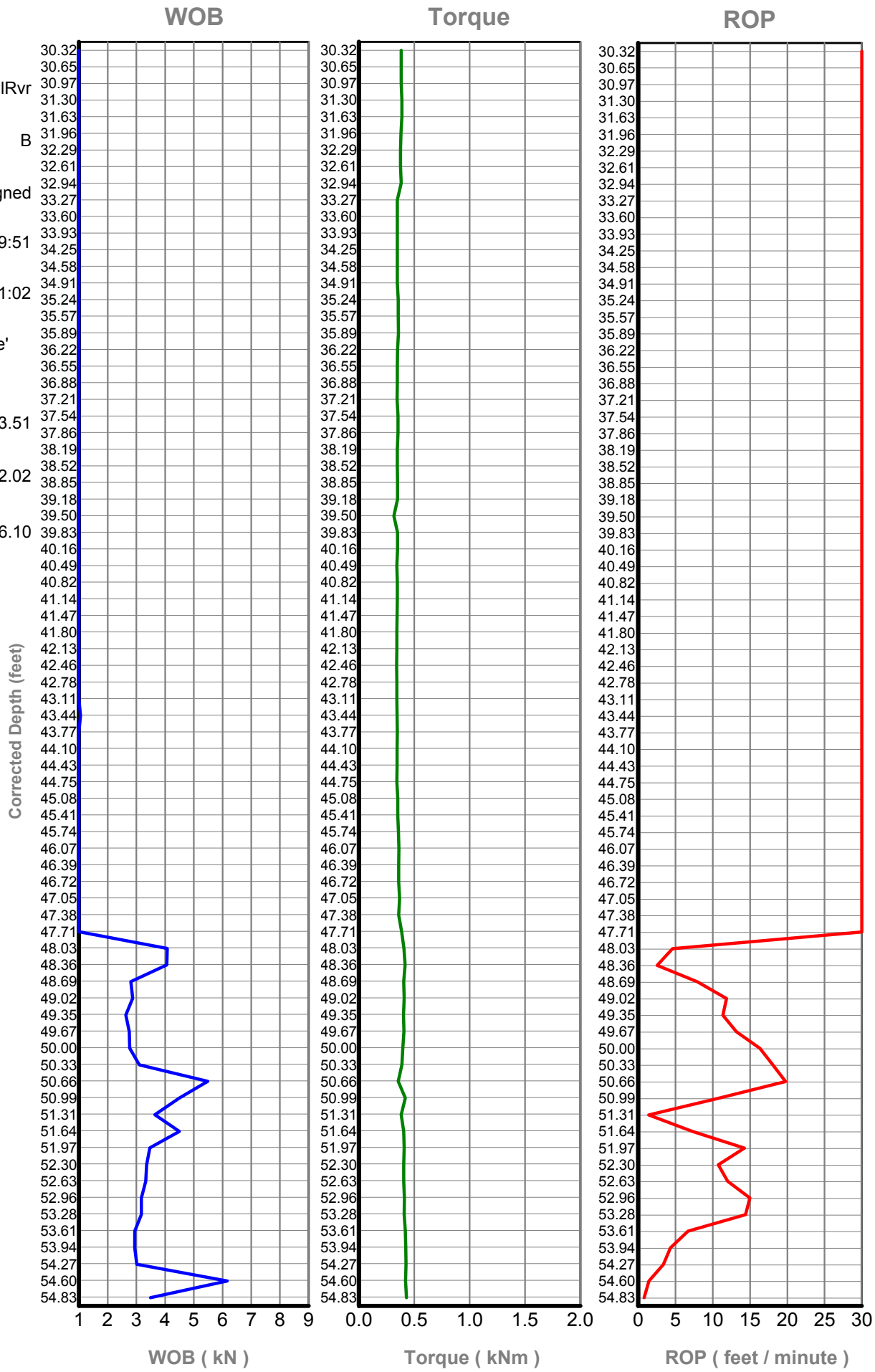
**End Date:**
4/18/2015 1:51:02

**Operator Note:**
'6.1 6.4 b Auto Complete'

**Northing:**
370,723.51

**Easting:**
257,862.02

**Tide (feet):**
6.10



## Hole: C55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 1:57:51 | 36.09 | 30.29 | 1,023 | 0.17 | 0.34 | 55.9 |
| 4/18/2015 1:57:52 | 36.42 | 30.62 | 1,023 | 0.17 | 0.34 | 55.9 |
| 4/18/2015 1:57:52 | 36.75 | 30.95 | 1,023 | 0.18 | 0.34 | 55.9 |
| 4/18/2015 1:57:53 | 37.07 | 31.27 | 1,045 | 0.17 | 0.34 | 57.1 |
| 4/18/2015 1:57:53 | 37.40 | 31.60 | 1,045 | 0.17 | 0.34 | 57.1 |
| 4/18/2015 1:57:53 | 37.73 | 31.93 | 1,039 | 0.17 | 0.34 | 56.8 |
| 4/18/2015 1:57:54 | 38.06 | 32.26 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:57:54 | 38.39 | 32.59 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:57:54 | 38.71 | 32.91 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:57:55 | 39.04 | 33.24 | 1,023 | 0.17 | 0.34 | 55.9 |
| 4/18/2015 1:57:55 | 39.37 | 33.57 | 1,023 | 0.17 | 0.34 | 55.9 |
| 4/18/2015 1:57:55 | 39.70 | 33.90 | 1,032 | 0.17 | 0.34 | 56.4 |
| 4/18/2015 1:57:56 | 40.03 | 34.23 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 1:57:56 | 40.35 | 34.55 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 1:57:56 | 40.68 | 34.88 | 1,026 | 0.18 | 0.34 | 56.1 |
| 4/18/2015 1:57:57 | 41.01 | 35.21 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:57:57 | 41.34 | 35.54 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:57:57 | 41.67 | 35.87 | 1,026 | 0.16 | 0.34 | 56.1 |
| 4/18/2015 1:57:58 | 41.99 | 36.19 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/18/2015 1:57:58 | 42.32 | 36.52 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/18/2015 1:57:58 | 42.65 | 36.85 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/18/2015 1:57:59 | 42.98 | 37.18 | 1,014 | 0.17 | 0.34 | 55.5 |
| 4/18/2015 1:57:59 | 43.31 | 37.51 | 1,014 | 0.17 | 0.34 | 55.5 |
| 4/18/2015 1:57:59 | 43.64 | 37.84 | 1,026 | 0.17 | 0.34 | 56.1 |
| 4/18/2015 1:58:00 | 43.96 | 38.16 | 1,018 | 0.17 | 0.34 | 55.6 |
| 4/18/2015 1:58:00 | 44.29 | 38.49 | 1,018 | 0.17 | 0.34 | 55.6 |
| 4/18/2015 1:58:00 | 44.62 | 38.82 | 1,021 | 0.17 | 0.34 | 55.8 |
| 4/18/2015 1:58:01 | 44.95 | 39.15 | 1,015 | 0.17 | 0.33 | 55.5 |
| 4/18/2015 1:58:01 | 45.28 | 39.48 | 1,015 | 0.17 | 0.33 | 55.5 |
| 4/18/2015 1:58:01 | 45.60 | 39.80 | 1,034 | 0.16 | 0.33 | 56.5 |
| 4/18/2015 1:58:02 | 45.93 | 40.13 | 1,028 | 0.18 | 0.34 | 56.2 |
| 4/18/2015 1:58:03 | 46.26 | 40.46 | 1,028 | 0.18 | 0.34 | 56.2 |
| 4/18/2015 1:58:03 | 46.59 | 40.79 | 1,033 | 0.17 | 0.34 | 56.5 |
| 4/18/2015 1:58:03 | 46.92 | 41.12 | 1,030 | 0.17 | 0.34 | 56.3 |
| 4/18/2015 1:58:04 | 47.24 | 41.44 | 1,030 | 0.17 | 0.34 | 56.3 |
| 4/18/2015 1:58:04 | 47.57 | 41.77 | 1,048 | 0.17 | 0.34 | 57.3 |
| 4/18/2015 1:58:04 | 47.90 | 42.10 | 1,032 | 0.16 | 0.34 | 56.4 |
| 4/18/2015 1:58:05 | 48.23 | 42.43 | 1,032 | 0.16 | 0.34 | 56.4 |
| 4/18/2015 1:58:05 | 48.56 | 42.76 | 1,023 | 0.16 | 0.34 | 55.9 |
| 4/18/2015 1:58:05 | 48.88 | 43.08 | 1,039 | 0.16 | 0.33 | 56.8 |
| 4/18/2015 1:58:06 | 49.21 | 43.41 | 1,039 | 0.16 | 0.33 | 56.8 |
| 4/18/2015 1:58:06 | 49.54 | 43.74 | 1,045 | 0.17 | 0.34 | 57.1 |
| 4/18/2015 1:58:06 | 49.87 | 44.07 | 1,039 | 0.15 | 0.43 | 56.8 |
| 4/18/2015 1:58:34 | 50.20 | 44.40 | 121 | 2.77 | 0.41 | 6.6 |
| 4/18/2015 1:58:49 | 50.53 | 44.73 | 20 | 3.27 | 0.41 | 1.1 |
| 4/18/2015 1:59:01 | 50.85 | 45.05 | 29 | 3.24 | 0.42 | 1.6 |
| 4/18/2015 1:59:14 | 51.18 | 45.38 | 32 | 2.59 | 0.42 | 1.7 |
| 4/18/2015 1:59:30 | 51.51 | 45.71 | 20 | 2.88 | 0.43 | 1.1 |
| 4/18/2015 1:59:33 | 51.61 | 45.81 | 29 | 3.16 | 0.42 | 1.6 |

## C55 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 1:55:23

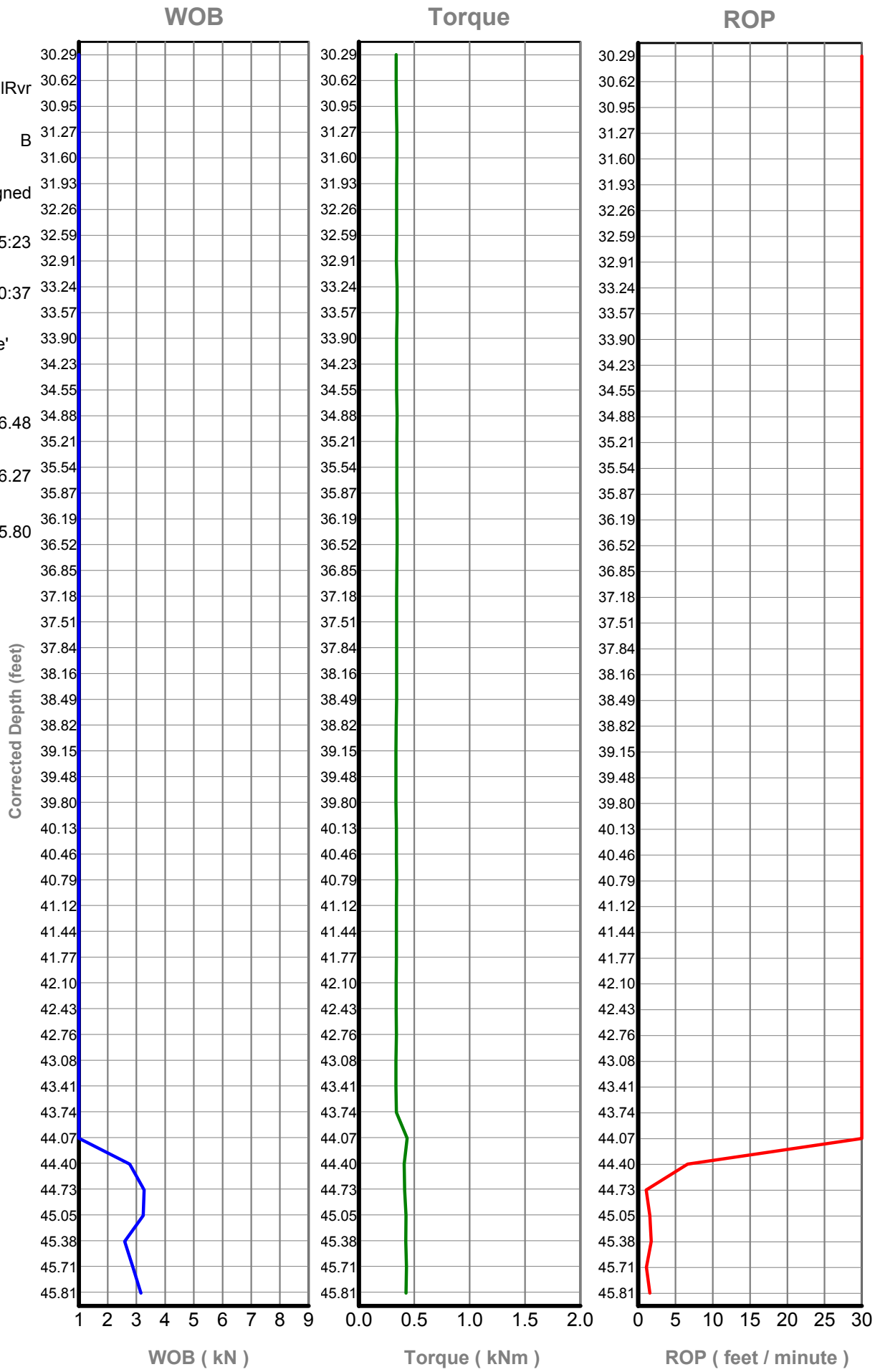
**End Date:**
4/18/2015 2:00:37

**Operator Note:**
'5.8 6.4 b Auto Complete'

**Northing:**
370,746.48

**Easting:**
257,916.27

**Tide (feet):**
5.80



## Hole: C56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 1:41:19 | 36.42 | 30.32 | 607 | 2.13 | 0.14 | 33.2 |
| 4/18/2015 1:41:20 | 36.75 | 30.65 | 607 | 2.13 | 0.14 | 33.2 |
| 4/18/2015 1:41:20 | 37.07 | 30.97 | 606 | 2.12 | 0.14 | 33.2 |
| 4/18/2015 1:41:21 | 37.40 | 31.30 | 610 | 2.14 | 0.14 | 33.4 |
| 4/18/2015 1:41:21 | 37.73 | 31.63 | 610 | 2.12 | 0.14 | 33.4 |
| 4/18/2015 1:41:22 | 38.06 | 31.96 | 607 | 2.13 | 0.14 | 33.2 |
| 4/18/2015 1:41:22 | 38.39 | 32.29 | 613 | 2.12 | 0.14 | 33.5 |
| 4/18/2015 1:41:23 | 38.71 | 32.61 | 610 | 2.13 | 0.14 | 33.4 |
| 4/18/2015 1:41:24 | 39.04 | 32.94 | 606 | 2.12 | 0.14 | 33.2 |
| 4/18/2015 1:41:24 | 39.37 | 33.27 | 617 | 2.13 | 0.14 | 33.7 |
| 4/18/2015 1:41:25 | 39.70 | 33.60 | 607 | 2.13 | 0.14 | 33.2 |
| 4/18/2015 1:41:25 | 40.03 | 33.93 | 607 | 2.12 | 0.14 | 33.2 |
| 4/18/2015 1:41:26 | 40.35 | 34.25 | 607 | 2.13 | 0.14 | 33.2 |
| 4/18/2015 1:41:27 | 40.68 | 34.58 | 617 | 2.13 | 0.14 | 33.8 |
| 4/18/2015 1:41:27 | 41.01 | 34.91 | 607 | 2.14 | 0.14 | 33.2 |
| 4/18/2015 1:41:28 | 41.34 | 35.24 | 610 | 2.12 | 0.14 | 33.4 |
| 4/18/2015 1:41:29 | 41.67 | 35.57 | 617 | 2.13 | 0.14 | 33.7 |
| 4/18/2015 1:41:29 | 41.99 | 35.89 | 610 | 2.12 | 0.14 | 33.4 |
| 4/18/2015 1:41:30 | 42.32 | 36.22 | 614 | 2.14 | 0.14 | 33.6 |
| 4/18/2015 1:41:30 | 42.65 | 36.55 | 614 | 2.14 | 0.14 | 33.6 |
| 4/18/2015 1:41:31 | 42.98 | 36.88 | 614 | 2.12 | 0.14 | 33.6 |
| 4/18/2015 1:41:31 | 43.31 | 37.21 | 594 | 2.13 | 0.14 | 32.5 |
| 4/18/2015 1:41:32 | 43.64 | 37.54 | 594 | 2.13 | 0.14 | 32.5 |
| 4/18/2015 1:41:33 | 43.96 | 37.86 | 600 | 2.13 | 0.14 | 32.8 |
| 4/18/2015 1:41:33 | 44.29 | 38.19 | 596 | 2.13 | 0.14 | 32.6 |
| 4/18/2015 1:41:34 | 44.62 | 38.52 | 600 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 1:41:34 | 44.95 | 38.85 | 596 | 2.12 | 0.14 | 32.6 |
| 4/18/2015 1:41:35 | 45.28 | 39.18 | 610 | 2.12 | 0.14 | 33.3 |
| 4/18/2015 1:41:35 | 45.60 | 39.50 | 600 | 2.13 | 0.14 | 32.8 |
| 4/18/2015 1:41:36 | 45.93 | 39.83 | 608 | 1.93 | 0.14 | 33.2 |
| 4/18/2015 1:41:37 | 46.26 | 40.16 | 595 | 2.13 | 0.14 | 32.5 |
| 4/18/2015 1:41:38 | 46.59 | 40.49 | 603 | 2.12 | 0.14 | 33.0 |
| 4/18/2015 1:41:38 | 46.92 | 40.82 | 593 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 1:41:39 | 47.24 | 41.14 | 593 | 2.13 | 0.14 | 32.4 |
| 4/18/2015 1:41:39 | 47.57 | 41.47 | 594 | 2.14 | 0.14 | 32.5 |
| 4/18/2015 1:41:40 | 47.90 | 41.80 | 594 | 2.12 | 0.14 | 32.5 |
| 4/18/2015 1:41:40 | 48.23 | 42.13 | 597 | 2.12 | 0.14 | 32.6 |
| 4/18/2015 1:41:41 | 48.56 | 42.46 | 600 | 2.14 | 0.14 | 32.8 |
| 4/18/2015 1:41:42 | 48.88 | 42.78 | 602 | 2.14 | 0.14 | 32.9 |
| 4/18/2015 1:41:42 | 49.21 | 43.11 | 603 | 2.13 | 0.14 | 33.0 |
| 4/18/2015 1:41:43 | 49.54 | 43.44 | 598 | 2.12 | 0.14 | 32.7 |
| 4/18/2015 1:41:43 | 49.87 | 43.77 | 604 | 2.13 | 0.14 | 33.0 |
| 4/18/2015 1:41:44 | 50.20 | 44.10 | 604 | 2.13 | 0.14 | 33.0 |
| 4/18/2015 1:41:44 | 50.53 | 44.43 | 604 | 2.14 | 0.14 | 33.0 |
| 4/18/2015 1:41:45 | 50.85 | 44.75 | 612 | 2.12 | 0.14 | 33.5 |
| 4/18/2015 1:41:46 | 51.18 | 45.08 | 597 | 2.14 | 0.14 | 32.6 |
| 4/18/2015 1:41:47 | 51.51 | 45.41 | 597 | 2.15 | 0.14 | 32.6 |
| 4/18/2015 1:41:47 | 51.84 | 45.74 | 593 | 2.14 | 0.14 | 32.4 |
| 4/18/2015 1:41:48 | 52.17 | 46.07 | 582 | 2.15 | 0.14 | 31.8 |
| 4/18/2015 1:41:49 | 52.49 | 46.39 | 534 | 2.15 | 0.14 | 29.2 |
| 4/18/2015 1:41:49 | 52.82 | 46.72 | 534 | 2.15 | 0.14 | 29.2 |
| 4/18/2015 1:41:50 | 53.15 | 47.05 | 518 | 2.15 | 0.14 | 28.3 |
| 4/18/2015 1:41:51 | 53.48 | 47.38 | 512 | 2.15 | 0.14 | 28.0 |
| 4/18/2015 1:41:51 | 53.81 | 47.71 | 501 | 2.16 | 0.14 | 27.4 |
| 4/18/2015 1:41:52 | 54.13 | 48.03 | 487 | 2.20 | 0.14 | 26.6 |
| 4/18/2015 1:42:20 | 54.46 | 48.36 | 13 | 2.16 | 1.07 | 0.7 |
| 4/18/2015 1:42:21 | 54.79 | 48.69 | 104 | 2.16 | 1.07 | 5.7 |
| 4/18/2015 1:42:22 | 55.12 | 49.02 | 302 | 2.16 | 1.05 | 16.5 |
| 4/18/2015 1:42:22 | 55.45 | 49.35 | 302 | 2.16 | 1.05 | 16.5 |
| 4/18/2015 1:42:25 | 55.77 | 49.67 | 156 | 2.17 | 1.02 | 8.5 |
| 4/18/2015 1:42:26 | 56.10 | 50.00 | 155 | 2.16 | 1.05 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 1:42:27 | 56.43 | 50.33 | 246 | 2.16 | 1.12 | 13.5 |
| 4/18/2015 | 1:42:28 | 56.76 | 50.66 | 341 | 2.20 | 1.20 | 18.6 |
| 4/18/2015 | 1:42:29 | 57.09 | 50.99 | 423 | 2.18 | 1.09 | 23.1 |
| 4/18/2015 | 1:42:33 | 57.41 | 51.31 | 6 | 2.16 | 1.07 | 0.3 |
| 4/18/2015 | 1:42:41 | 57.74 | 51.64 | 0 | 2.28 | 1.27 | 0.0 |
| 4/18/2015 | 1:42:42 | 58.07 | 51.97 | 82 | 2.21 | 1.22 | 4.5 |
| 4/18/2015 | 1:42:50 | 58.40 | 52.30 | 20 | 2.21 | 1.20 | 1.1 |
| 4/18/2015 | 1:42:51 | 58.73 | 52.63 | 144 | 2.19 | 1.09 | 7.9 |
| 4/18/2015 | 1:42:52 | 59.06 | 52.96 | 288 | 2.17 | 1.02 | 15.7 |
| 4/18/2015 | 1:42:53 | 59.38 | 53.28 | 359 | 2.15 | 0.94 | 19.6 |
| 4/18/2015 | 1:42:54 | 59.71 | 53.61 | 401 | 2.17 | 0.94 | 21.9 |
| 4/18/2015 | 1:42:54 | 60.04 | 53.94 | 431 | 2.39 | 1.04 | 23.6 |
| 4/18/2015 | 1:43:00 | 60.37 | 54.27 | 40 | 2.17 | 0.94 | 2.2 |
| 4/18/2015 | 1:43:01 | 60.70 | 54.60 | 237 | 2.06 | 0.97 | 13.0 |
| 4/18/2015 | 1:43:03 | 61.02 | 54.92 | 240 | 2.14 | 0.85 | 13.1 |
| 4/18/2015 | 1:43:05 | 61.35 | 55.25 | 230 | 2.13 | 0.85 | 12.6 |
| 4/18/2015 | 1:43:05 | 61.68 | 55.58 | 214 | 2.14 | 0.85 | 11.7 |

## C56 - Summary

**Pattern Number:**
AreaC_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 1:38:44

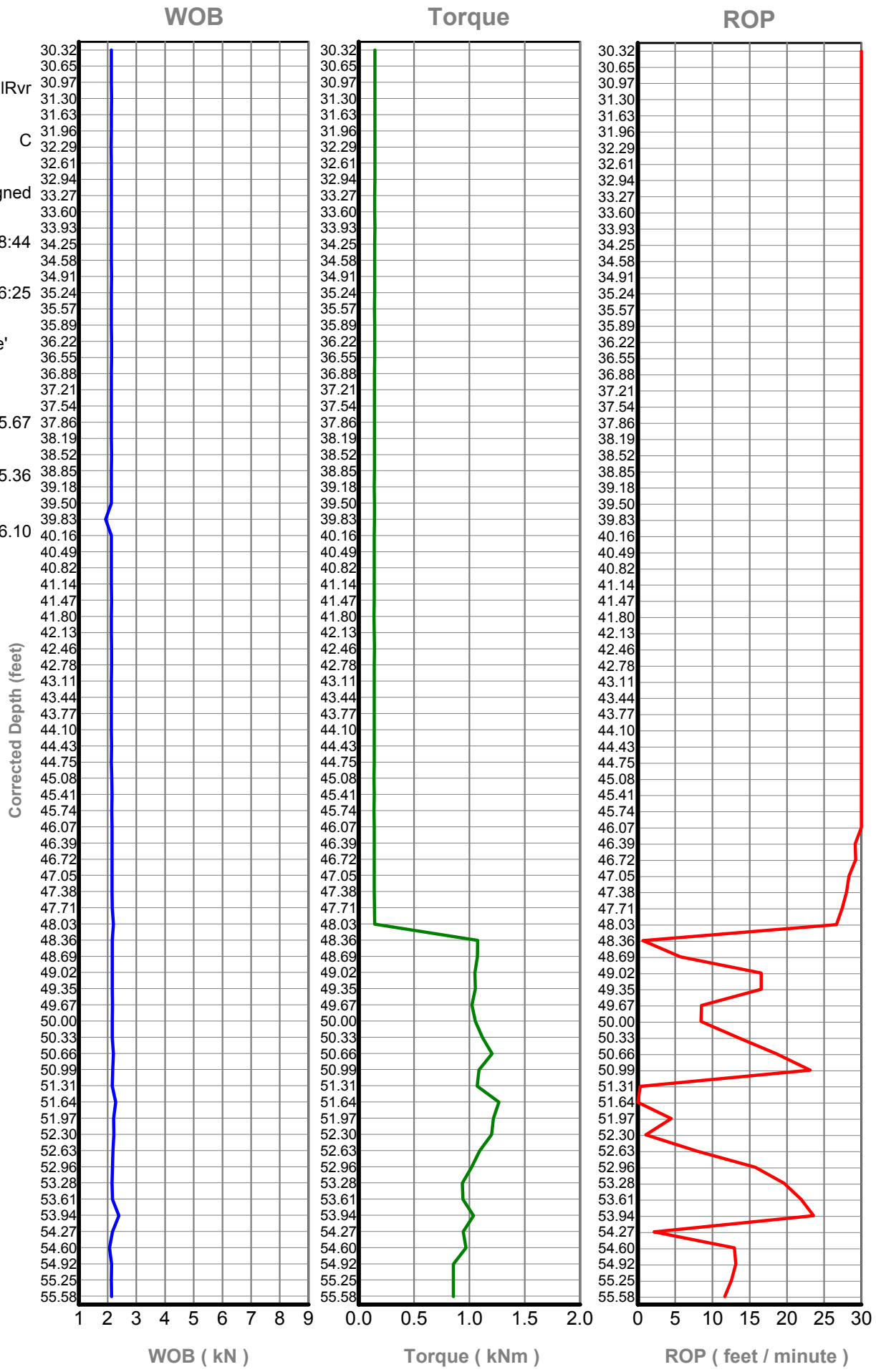
**End Date:**
4/18/2015 1:46:25

**Operator Note:**
'6.1 6.4 c Auto Complete'

**Northing:**
370,775.67

**Easting:**
257,985.36

**Tide (feet):**
6.10



## Hole: C57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 23:52:52 | 36.42 | 30.22 | 1,106 | 0.15 | 0.33 | 60.5 |
| 4/17/2015 23:52:53 | 36.75 | 30.55 | 1,106 | 0.15 | 0.33 | 60.5 |
| 4/17/2015 23:52:53 | 37.07 | 30.87 | 1,106 | 0.15 | 0.33 | 60.5 |
| 4/17/2015 23:52:54 | 37.40 | 31.20 | 1,100 | 0.15 | 0.33 | 60.2 |
| 4/17/2015 23:52:54 | 37.73 | 31.53 | 1,100 | 0.15 | 0.33 | 60.2 |
| 4/17/2015 23:52:54 | 38.06 | 31.86 | 1,079 | 0.16 | 0.33 | 59.0 |
| 4/17/2015 23:52:55 | 38.39 | 32.19 | 1,079 | 0.16 | 0.33 | 59.0 |
| 4/17/2015 23:52:55 | 38.71 | 32.51 | 1,079 | 0.15 | 0.33 | 59.0 |
| 4/17/2015 23:52:55 | 39.04 | 32.84 | 1,084 | 0.15 | 0.33 | 59.3 |
| 4/17/2015 23:52:56 | 39.37 | 33.17 | 1,084 | 0.15 | 0.33 | 59.3 |
| 4/17/2015 23:52:56 | 39.70 | 33.50 | 1,073 | 0.17 | 0.33 | 58.7 |
| 4/17/2015 23:52:56 | 40.03 | 33.83 | 1,113 | 0.15 | 0.33 | 60.9 |
| 4/17/2015 23:52:57 | 40.35 | 34.15 | 1,113 | 0.15 | 0.33 | 60.9 |
| 4/17/2015 23:52:57 | 40.68 | 34.48 | 1,089 | 0.17 | 0.33 | 59.6 |
| 4/17/2015 23:52:57 | 41.01 | 34.81 | 1,089 | 0.17 | 0.33 | 59.6 |
| 4/17/2015 23:52:57 | 41.34 | 35.14 | 1,099 | 0.20 | 0.33 | 60.1 |
| 4/17/2015 23:52:58 | 41.67 | 35.47 | 1,099 | 0.15 | 0.33 | 60.1 |
| 4/17/2015 23:52:58 | 41.99 | 35.79 | 1,099 | 0.15 | 0.33 | 60.1 |
| 4/17/2015 23:52:58 | 42.32 | 36.12 | 1,093 | 0.15 | 0.34 | 59.8 |
| 4/17/2015 23:52:59 | 42.65 | 36.45 | 1,087 | 0.16 | 0.33 | 59.4 |
| 4/17/2015 23:52:59 | 42.98 | 36.78 | 1,087 | 0.16 | 0.33 | 59.4 |
| 4/17/2015 23:52:59 | 43.31 | 37.11 | 1,093 | 0.16 | 0.33 | 59.8 |
| 4/17/2015 23:53:00 | 43.64 | 37.44 | 1,093 | 0.16 | 0.33 | 59.8 |
| 4/17/2015 23:53:00 | 43.96 | 37.76 | 1,098 | 0.15 | 0.33 | 60.1 |
| 4/17/2015 23:53:00 | 44.29 | 38.09 | 1,095 | 0.16 | 0.33 | 59.9 |
| 4/17/2015 23:53:01 | 44.62 | 38.42 | 1,095 | 0.16 | 0.33 | 59.9 |
| 4/17/2015 23:53:01 | 44.95 | 38.75 | 1,093 | 0.16 | 0.33 | 59.7 |
| 4/17/2015 23:53:01 | 45.28 | 39.08 | 1,092 | 0.16 | 0.33 | 59.7 |
| 4/17/2015 23:53:02 | 45.60 | 39.40 | 1,092 | 0.16 | 0.33 | 59.7 |
| 4/17/2015 23:53:02 | 45.93 | 39.73 | 1,101 | 0.16 | 0.34 | 60.2 |
| 4/17/2015 23:53:02 | 46.26 | 40.06 | 1,101 | 0.16 | 0.34 | 60.2 |
| 4/17/2015 23:53:02 | 46.59 | 40.39 | 1,096 | 0.16 | 0.34 | 59.9 |
| 4/17/2015 23:53:03 | 46.92 | 40.72 | 1,096 | 0.16 | 0.34 | 59.9 |
| 4/17/2015 23:53:03 | 47.24 | 41.04 | 1,096 | 0.16 | 0.34 | 59.9 |
| 4/17/2015 23:53:03 | 47.57 | 41.37 | 1,096 | 0.15 | 0.33 | 59.9 |
| 4/17/2015 23:53:04 | 47.90 | 41.70 | 1,098 | 0.16 | 0.34 | 60.1 |
| 4/17/2015 23:53:05 | 48.23 | 42.03 | 1,098 | 0.16 | 0.34 | 60.1 |
| 4/17/2015 23:53:05 | 48.56 | 42.36 | 1,093 | 0.16 | 0.34 | 59.7 |
| 4/17/2015 23:53:05 | 48.88 | 42.68 | 1,087 | 0.16 | 0.33 | 59.4 |
| 4/17/2015 23:53:06 | 49.21 | 43.01 | 1,087 | 0.16 | 0.33 | 59.4 |
| 4/17/2015 23:53:06 | 49.54 | 43.34 | 1,080 | 0.14 | 0.34 | 59.0 |
| 4/17/2015 23:53:06 | 49.87 | 43.67 | 1,080 | 0.14 | 0.34 | 59.0 |
| 4/17/2015 23:53:06 | 50.20 | 44.00 | 1,102 | 0.16 | 0.33 | 60.3 |
| 4/17/2015 23:53:07 | 50.53 | 44.33 | 1,097 | 0.16 | 0.33 | 60.0 |
| 4/17/2015 23:53:07 | 50.85 | 44.65 | 1,097 | 0.16 | 0.33 | 60.0 |
| 4/17/2015 23:53:07 | 51.18 | 44.98 | 1,097 | 0.15 | 0.33 | 60.0 |
| 4/17/2015 23:53:08 | 51.51 | 45.31 | 1,091 | 0.18 | 0.35 | 59.7 |
| 4/17/2015 23:53:08 | 51.84 | 45.64 | 1,091 | 0.18 | 0.35 | 59.7 |
| 4/17/2015 23:53:08 | 52.17 | 45.97 | 1,060 | 0.16 | 0.35 | 58.0 |
| 4/17/2015 23:53:09 | 52.49 | 46.29 | 1,006 | 0.16 | 0.36 | 55.0 |
| 4/17/2015 23:53:09 | 52.82 | 46.62 | 962 | 0.17 | 0.35 | 52.6 |
| 4/17/2015 23:53:10 | 53.15 | 46.95 | 962 | 0.17 | 0.35 | 52.6 |
| 4/17/2015 23:53:10 | 53.48 | 47.28 | 917 | 0.15 | 0.35 | 50.1 |
| 4/17/2015 23:53:10 | 53.81 | 47.61 | 899 | 0.15 | 0.35 | 49.2 |
| 4/17/2015 23:53:11 | 54.13 | 47.93 | 888 | 0.10 | 0.43 | 48.5 |
| 4/17/2015 23:53:24 | 54.46 | 48.26 | 29 | 0.14 | 0.36 | 1.6 |
| 4/17/2015 23:53:25 | 54.79 | 48.59 | 184 | 0.14 | 0.36 | 10.1 |
| 4/17/2015 23:53:26 | 55.12 | 48.92 | 336 | 0.14 | 0.36 | 18.4 |
| 4/17/2015 23:53:26 | 55.45 | 49.25 | 477 | 0.14 | 0.37 | 26.1 |
| 4/17/2015 23:53:27 | 55.77 | 49.57 | 606 | 0.14 | 0.38 | 33.1 |
| 4/17/2015 23:53:27 | 56.10 | 49.90 | 691 | 0.14 | 0.38 | 37.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 23:53:28 | 56.43 | 50.23 | 662 | 0.14 | 0.38 | 36.2 |
| 4/17/2015 | 23:53:28 | 56.76 | 50.56 | 628 | 0.16 | 0.38 | 34.3 |
| 4/17/2015 | 23:53:29 | 57.09 | 50.89 | 555 | 0.16 | 0.40 | 30.3 |
| 4/17/2015 | 23:53:30 | 57.41 | 51.21 | 444 | 0.14 | 0.39 | 24.3 |
| 4/17/2015 | 23:53:31 | 57.74 | 51.54 | 401 | 0.16 | 0.41 | 21.9 |
| 4/18/2015 | 0:00:02 | 58.07 | 51.87 | 29 | 2.29 | 0.41 | 1.6 |
| 4/18/2015 | 0:00:04 | 58.40 | 52.20 | 139 | 3.01 | 0.42 | 7.6 |
| 4/18/2015 | 0:00:08 | 58.73 | 52.53 | 97 | 2.92 | 0.41 | 5.3 |
| 4/18/2015 | 0:00:09 | 59.06 | 52.86 | 162 | 2.17 | 0.39 | 8.8 |
| 4/18/2015 | 0:00:10 | 59.38 | 53.18 | 263 | 2.92 | 0.40 | 14.4 |
| 4/18/2015 | 0:00:11 | 59.71 | 53.51 | 308 | 2.16 | 0.39 | 16.8 |
| 4/18/2015 | 0:00:12 | 60.04 | 53.84 | 368 | 1.89 | 0.38 | 20.1 |
| 4/18/2015 | 0:00:13 | 60.37 | 54.17 | 412 | 1.89 | 0.39 | 22.5 |
| 4/18/2015 | 0:00:14 | 60.70 | 54.50 | 456 | 1.81 | 0.37 | 24.9 |
| 4/18/2015 | 0:00:14 | 61.02 | 54.82 | 485 | 1.72 | 0.42 | 26.5 |
| 4/18/2015 | 0:00:18 | 61.35 | 55.15 | 47 | 1.64 | 0.41 | 2.6 |
| 4/18/2015 | 0:00:18 | 61.48 | 55.28 | 47 | 1.64 | 0.41 | 2.6 |

## C57 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 23:49:15

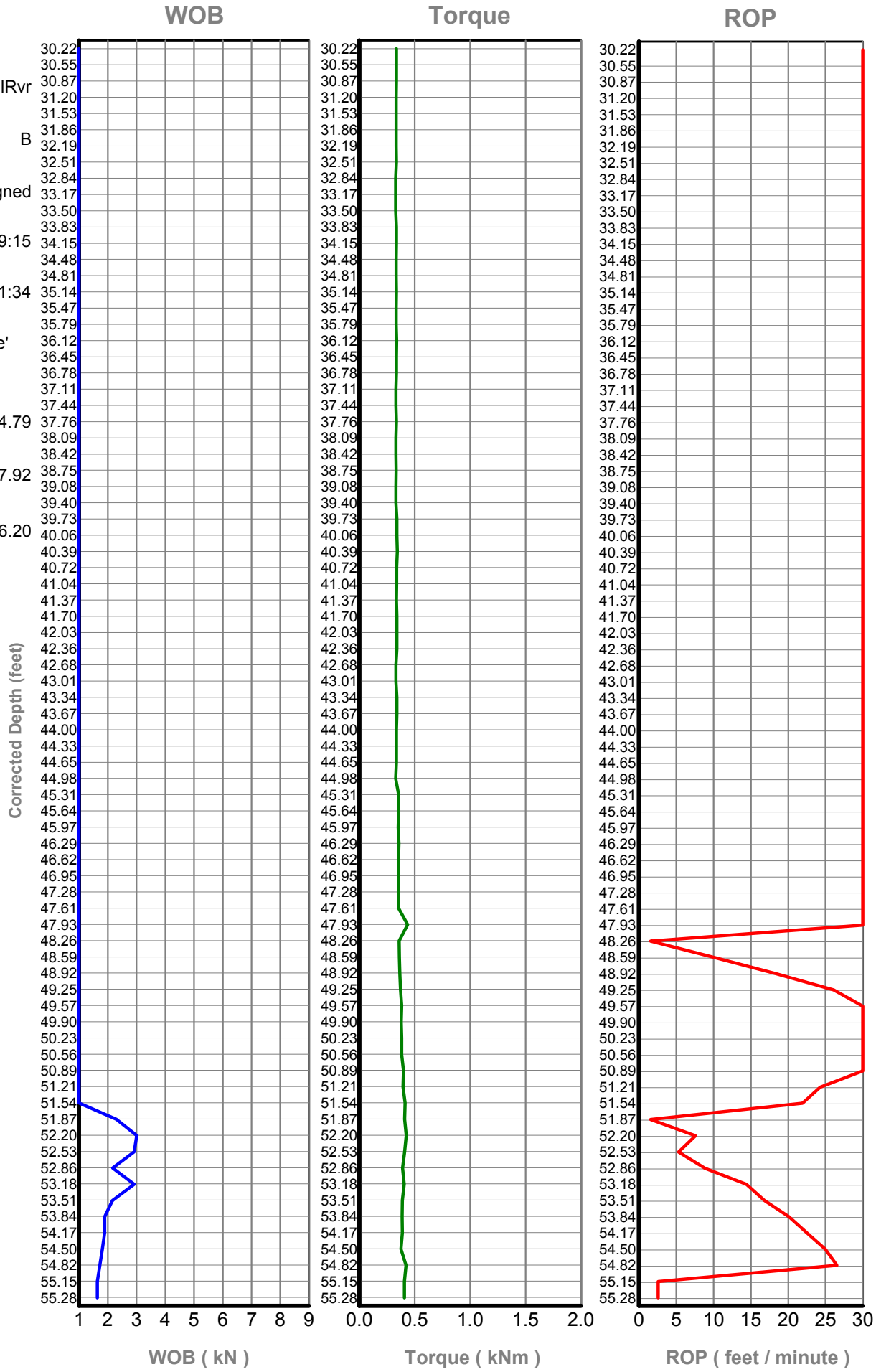
**End Date:**
4/18/2015 0:01:34

**Operator Note:**
'6.2 6.3 b Auto Complete'

**Northing:**
370,814.79

**Easting:**
258,067.92

**Tide (feet):**
6.20



## Hole: C58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 0:09:15 | 36.42 | 30.02 | 1,051 | 0.17 | 0.34 | 57.5 |
| 4/18/2015 0:09:16 | 36.75 | 30.35 | 1,051 | 0.17 | 0.33 | 57.5 |
| 4/18/2015 0:09:16 | 37.07 | 30.67 | 1,051 | 0.17 | 0.33 | 57.5 |
| 4/18/2015 0:09:16 | 37.40 | 31.00 | 1,050 | 0.17 | 0.33 | 57.4 |
| 4/18/2015 0:09:17 | 37.73 | 31.33 | 1,066 | 0.17 | 0.34 | 58.3 |
| 4/18/2015 0:09:17 | 38.06 | 31.66 | 1,066 | 0.17 | 0.34 | 58.3 |
| 4/18/2015 0:09:17 | 38.39 | 31.99 | 1,041 | 0.17 | 0.34 | 56.9 |
| 4/18/2015 0:09:18 | 38.71 | 32.31 | 1,041 | 0.17 | 0.33 | 56.9 |
| 4/18/2015 0:09:18 | 39.04 | 32.64 | 1,041 | 0.17 | 0.33 | 56.9 |
| 4/18/2015 0:09:18 | 39.37 | 32.97 | 1,046 | 0.17 | 0.34 | 57.2 |
| 4/18/2015 0:09:19 | 39.70 | 33.30 | 1,046 | 0.17 | 0.34 | 57.2 |
| 4/18/2015 0:09:19 | 40.03 | 33.63 | 1,052 | 0.17 | 0.33 | 57.5 |
| 4/18/2015 0:09:19 | 40.35 | 33.95 | 1,049 | 0.19 | 0.33 | 57.4 |
| 4/18/2015 0:09:20 | 40.68 | 34.28 | 1,049 | 0.19 | 0.33 | 57.4 |
| 4/18/2015 0:09:20 | 41.01 | 34.61 | 1,052 | 0.16 | 0.34 | 57.5 |
| 4/18/2015 0:09:20 | 41.34 | 34.94 | 1,051 | 0.17 | 0.34 | 57.5 |
| 4/18/2015 0:09:21 | 41.67 | 35.27 | 1,051 | 0.17 | 0.34 | 57.5 |
| 4/18/2015 0:09:21 | 41.99 | 35.59 | 1,058 | 0.14 | 0.32 | 57.9 |
| 4/18/2015 0:09:21 | 42.32 | 35.92 | 1,026 | 0.15 | 0.33 | 56.1 |
| 4/18/2015 0:09:22 | 42.65 | 36.25 | 1,026 | 0.15 | 0.33 | 56.1 |
| 4/18/2015 0:09:22 | 42.98 | 36.58 | 1,026 | 0.14 | 0.33 | 56.1 |
| 4/18/2015 0:09:22 | 43.31 | 36.91 | 1,037 | 0.15 | 0.34 | 56.7 |
| 4/18/2015 0:09:23 | 43.64 | 37.24 | 1,037 | 0.15 | 0.34 | 56.7 |
| 4/18/2015 0:09:23 | 43.96 | 37.56 | 1,049 | 0.14 | 0.33 | 57.4 |
| 4/18/2015 0:09:24 | 44.29 | 37.89 | 1,055 | 0.15 | 0.33 | 57.7 |
| 4/18/2015 0:09:24 | 44.62 | 38.22 | 1,055 | 0.15 | 0.33 | 57.7 |
| 4/18/2015 0:09:24 | 44.95 | 38.55 | 1,022 | 0.15 | 0.33 | 55.9 |
| 4/18/2015 0:09:25 | 45.28 | 38.88 | 1,022 | 0.15 | 0.33 | 55.9 |
| 4/18/2015 0:09:25 | 45.60 | 39.20 | 1,022 | 0.14 | 0.33 | 55.9 |
| 4/18/2015 0:09:25 | 45.93 | 39.53 | 1,075 | 0.14 | 0.34 | 58.8 |
| 4/18/2015 0:09:26 | 46.26 | 39.86 | 1,075 | 0.14 | 0.34 | 58.8 |
| 4/18/2015 0:09:26 | 46.59 | 40.19 | 1,060 | 0.15 | 0.34 | 58.0 |
| 4/18/2015 0:09:26 | 46.92 | 40.52 | 1,060 | 0.15 | 0.33 | 58.0 |
| 4/18/2015 0:09:27 | 47.24 | 40.84 | 1,060 | 0.15 | 0.33 | 58.0 |
| 4/18/2015 0:09:27 | 47.57 | 41.17 | 1,060 | 0.15 | 0.34 | 58.0 |
| 4/18/2015 0:09:27 | 47.90 | 41.50 | 1,099 | 0.14 | 0.33 | 60.1 |
| 4/18/2015 0:09:28 | 48.23 | 41.83 | 1,099 | 0.14 | 0.33 | 60.1 |
| 4/18/2015 0:09:28 | 48.56 | 42.16 | 1,075 | 0.15 | 0.33 | 58.8 |
| 4/18/2015 0:09:28 | 48.88 | 42.48 | 1,075 | 0.15 | 0.33 | 58.8 |
| 4/18/2015 0:09:28 | 49.21 | 42.81 | 1,078 | 0.15 | 0.34 | 59.0 |
| 4/18/2015 0:09:29 | 49.54 | 43.14 | 1,078 | 0.15 | 0.33 | 58.9 |
| 4/18/2015 0:09:29 | 49.87 | 43.47 | 1,078 | 0.15 | 0.33 | 58.9 |
| 4/18/2015 0:09:29 | 50.20 | 43.80 | 1,084 | 0.14 | 0.33 | 59.3 |
| 4/18/2015 0:09:30 | 50.53 | 44.13 | 1,075 | 0.14 | 0.33 | 58.8 |
| 4/18/2015 0:09:30 | 50.85 | 44.45 | 1,075 | 0.14 | 0.33 | 58.8 |
| 4/18/2015 0:09:30 | 51.18 | 44.78 | 1,084 | 0.15 | 0.34 | 59.3 |
| 4/18/2015 0:09:31 | 51.51 | 45.11 | 1,081 | 0.15 | 0.35 | 59.1 |
| 4/18/2015 0:09:31 | 51.84 | 45.44 | 1,081 | 0.15 | 0.35 | 59.1 |
| 4/18/2015 0:09:31 | 52.17 | 45.77 | 1,052 | 0.15 | 0.35 | 57.5 |
| 4/18/2015 0:09:32 | 52.49 | 46.09 | 1,006 | 0.14 | 0.34 | 55.0 |
| 4/18/2015 0:09:32 | 52.82 | 46.42 | 968 | 0.14 | 0.35 | 53.0 |
| 4/18/2015 0:09:33 | 53.15 | 46.75 | 968 | 0.14 | 0.35 | 53.0 |
| 4/18/2015 0:09:33 | 53.48 | 47.08 | 922 | 0.14 | 0.34 | 50.4 |
| 4/18/2015 0:09:34 | 53.81 | 47.41 | 890 | 0.14 | 0.35 | 48.7 |
| 4/18/2015 0:09:34 | 54.13 | 47.73 | 876 | 0.14 | 0.36 | 47.9 |
| 4/18/2015 0:09:35 | 54.46 | 48.06 | 861 | 0.13 | 0.38 | 47.1 |
| 4/18/2015 0:09:35 | 54.79 | 48.39 | 816 | 0.14 | 0.36 | 44.6 |
| 4/18/2015 0:09:36 | 55.12 | 48.72 | 783 | 0.14 | 0.39 | 42.8 |
| 4/18/2015 0:09:37 | 55.45 | 49.05 | 571 | 0.14 | 0.41 | 31.2 |
| 4/18/2015 0:09:38 | 55.77 | 49.37 | 383 | 0.13 | 0.40 | 20.9 |
| 4/18/2015 0:09:39 | 56.10 | 49.70 | 283 | 0.13 | 0.39 | 15.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 0:09:40 | 56.43 | 50.03 | 333 | 0.13 | 0.39 | 18.2 |
| 4/18/2015 | 0:09:41 | 56.76 | 50.36 | 343 | 0.14 | 0.39 | 18.8 |
| 4/18/2015 | 0:09:42 | 57.09 | 50.69 | 359 | 0.14 | 0.40 | 19.6 |
| 4/18/2015 | 0:09:43 | 57.41 | 51.01 | 330 | 0.13 | 0.40 | 18.0 |
| 4/18/2015 | 0:10:07 | 57.74 | 51.34 | 0 | 2.82 | 0.39 | 0.0 |
| 4/18/2015 | 0:10:08 | 58.07 | 51.67 | 131 | 3.41 | 0.42 | 7.1 |
| 4/18/2015 | 0:10:10 | 58.40 | 52.00 | 193 | 2.60 | 0.40 | 10.6 |
| 4/18/2015 | 0:10:13 | 58.73 | 52.33 | 153 | 2.63 | 0.40 | 8.4 |
| 4/18/2015 | 0:10:24 | 59.06 | 52.66 | 14 | 3.24 | 0.42 | 0.8 |
| 4/18/2015 | 0:10:25 | 59.38 | 52.98 | 101 | 3.64 | 0.39 | 5.5 |
| 4/18/2015 | 0:10:26 | 59.71 | 53.31 | 241 | 3.18 | 0.38 | 13.2 |
| 4/18/2015 | 0:10:30 | 60.04 | 53.64 | 58 | 2.76 | 0.38 | 3.1 |
| 4/18/2015 | 0:10:31 | 60.37 | 53.97 | 160 | 3.41 | 0.39 | 8.7 |
| 4/18/2015 | 0:10:33 | 60.70 | 54.30 | 182 | 3.02 | 0.38 | 10.0 |
| 4/18/2015 | 0:10:34 | 61.02 | 54.62 | 281 | 2.18 | 0.39 | 15.4 |
| 4/18/2015 | 0:10:35 | 61.35 | 54.95 | 349 | 2.02 | 0.36 | 19.1 |
| 4/18/2015 | 0:10:35 | 61.68 | 55.28 | 429 | 1.95 | 0.38 | 23.4 |
| 4/18/2015 | 0:10:36 | 62.01 | 55.61 | 474 | 2.35 | 0.39 | 25.9 |
| 4/18/2015 | 0:11:45 | 62.34 | 55.94 | 3 | 0.10 | 0.27 | 0.2 |
| 4/18/2015 | 0:11:46 | 62.66 | 56.26 | 136 | 0.14 | 0.40 | 7.5 |
| 4/18/2015 | 0:11:47 | 62.99 | 56.59 | 198 | 1.17 | 0.38 | 10.8 |
| 4/18/2015 | 0:11:48 | 63.32 | 56.92 | 322 | 1.61 | 0.39 | 17.6 |
| 4/18/2015 | 0:11:49 | 63.65 | 57.25 | 381 | 1.70 | 0.40 | 20.8 |
| 4/18/2015 | 0:11:51 | 63.98 | 57.58 | 312 | 1.63 | 0.40 | 17.1 |
| 4/18/2015 | 0:11:52 | 64.30 | 57.90 | 266 | 1.37 | 0.39 | 14.5 |
| 4/18/2015 | 0:11:53 | 64.63 | 58.23 | 260 | 1.47 | 0.39 | 14.2 |
| 4/18/2015 | 0:11:55 | 64.96 | 58.56 | 249 | 1.57 | 0.40 | 13.6 |
| 4/18/2015 | 0:11:56 | 65.29 | 58.89 | 272 | 1.55 | 0.40 | 14.9 |
| 4/18/2015 | 0:11:57 | 65.62 | 59.22 | 263 | 1.62 | 0.40 | 14.4 |
| 4/18/2015 | 0:11:58 | 65.95 | 59.55 | 266 | 1.49 | 0.40 | 14.5 |
| 4/18/2015 | 0:12:00 | 66.27 | 59.87 | 289 | 1.56 | 0.39 | 15.8 |
| 4/18/2015 | 0:12:01 | 66.60 | 60.20 | 326 | 1.58 | 0.40 | 17.8 |
| 4/18/2015 | 0:12:03 | 66.93 | 60.53 | 257 | 2.10 | 0.40 | 14.1 |
| 4/18/2015 | 0:12:04 | 67.26 | 60.86 | 211 | 1.04 | 0.37 | 11.5 |
| 4/18/2015 | 0:23:50 | 67.35 | 60.95 | 0 | 0.13 | 0.37 | 0.0 |

## C58 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 0:06:15

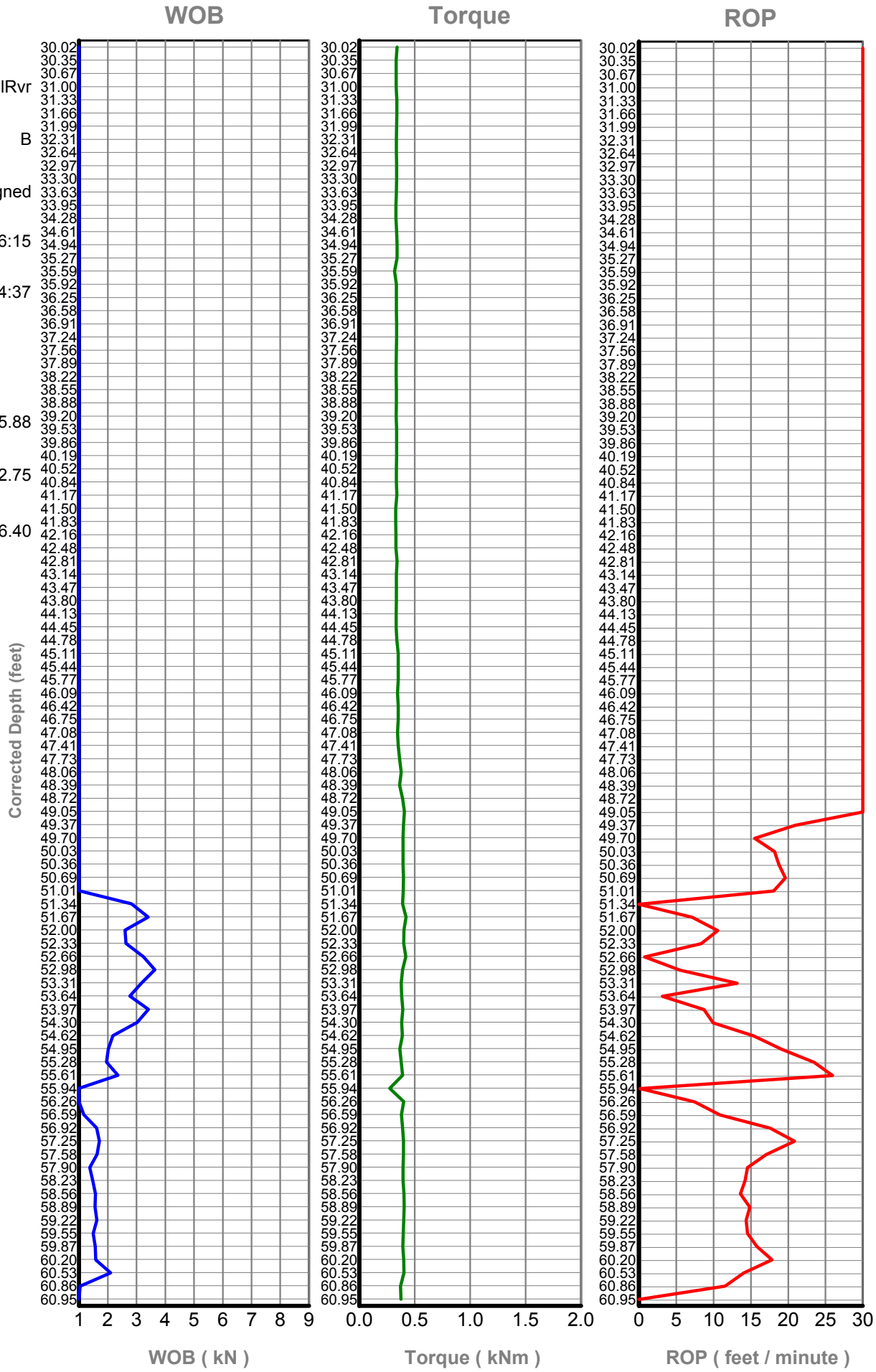
**End Date:**
4/18/2015 0:24:37

**Operator Note:**
'6.4 6.3 Auto Complete'

**Northing:**
370,845.88

**Easting:**
258,122.75

**Tide (feet):**
6.40



## Hole: C59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 23:53:26 | 36.42 | 30.22 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:27 | 36.75 | 30.55 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:27 | 37.07 | 30.87 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:28 | 37.40 | 31.20 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 23:53:29 | 37.73 | 31.53 | 582 | 2.12 | 0.14 | 31.8 |
| 4/17/2015 23:53:29 | 38.06 | 31.86 | 575 | 2.13 | 0.14 | 31.4 |
| 4/17/2015 23:53:30 | 38.39 | 32.19 | 581 | 2.12 | 0.14 | 31.8 |
| 4/17/2015 23:53:30 | 38.71 | 32.51 | 585 | 2.12 | 0.14 | 32.0 |
| 4/17/2015 23:53:31 | 39.04 | 32.84 | 581 | 2.13 | 0.14 | 31.8 |
| 4/17/2015 23:53:32 | 39.37 | 33.17 | 584 | 2.12 | 0.14 | 31.9 |
| 4/17/2015 23:53:33 | 39.70 | 33.50 | 581 | 2.12 | 0.14 | 31.8 |
| 4/17/2015 23:53:33 | 40.03 | 33.83 | 568 | 2.13 | 0.14 | 31.1 |
| 4/17/2015 23:53:34 | 40.35 | 34.15 | 568 | 2.14 | 0.14 | 31.1 |
| 4/17/2015 23:53:34 | 40.68 | 34.48 | 571 | 2.12 | 0.14 | 31.2 |
| 4/17/2015 23:53:35 | 41.01 | 34.81 | 575 | 2.14 | 0.14 | 31.4 |
| 4/17/2015 23:53:36 | 41.34 | 35.14 | 577 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:36 | 41.67 | 35.47 | 577 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:37 | 41.99 | 35.79 | 587 | 2.12 | 0.14 | 32.1 |
| 4/17/2015 23:53:37 | 42.32 | 36.12 | 584 | 2.14 | 0.14 | 31.9 |
| 4/17/2015 23:53:38 | 42.65 | 36.45 | 583 | 2.14 | 0.14 | 31.9 |
| 4/17/2015 23:53:39 | 42.98 | 36.78 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 23:53:39 | 43.31 | 37.11 | 578 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:40 | 43.64 | 37.44 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:40 | 43.96 | 37.76 | 578 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:41 | 44.29 | 38.09 | 575 | 2.11 | 0.14 | 31.5 |
| 4/17/2015 23:53:42 | 44.62 | 38.42 | 578 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:43 | 44.95 | 38.75 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 23:53:43 | 45.28 | 39.08 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:44 | 45.60 | 39.40 | 578 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:44 | 45.93 | 39.73 | 575 | 2.13 | 0.14 | 31.4 |
| 4/17/2015 23:53:45 | 46.26 | 40.06 | 575 | 2.12 | 0.15 | 31.4 |
| 4/17/2015 23:53:46 | 46.59 | 40.39 | 578 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 23:53:46 | 46.92 | 40.72 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:47 | 47.24 | 41.04 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:47 | 47.57 | 41.37 | 581 | 2.14 | 0.14 | 31.8 |
| 4/17/2015 23:53:48 | 47.90 | 41.70 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:49 | 48.23 | 42.03 | 578 | 2.13 | 0.14 | 31.6 |
| 4/17/2015 23:53:49 | 48.56 | 42.36 | 578 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 23:53:50 | 48.88 | 42.68 | 563 | 2.12 | 0.14 | 30.8 |
| 4/17/2015 23:53:50 | 49.21 | 43.01 | 563 | 2.14 | 0.14 | 30.8 |
| 4/17/2015 23:53:51 | 49.54 | 43.34 | 570 | 2.13 | 0.14 | 31.2 |
| 4/17/2015 23:53:52 | 49.87 | 43.67 | 571 | 2.14 | 0.14 | 31.2 |
| 4/17/2015 23:53:53 | 50.20 | 44.00 | 571 | 2.12 | 0.14 | 31.2 |
| 4/17/2015 23:53:53 | 50.53 | 44.33 | 579 | 2.12 | 0.14 | 31.7 |
| 4/17/2015 23:53:54 | 50.85 | 44.65 | 576 | 2.13 | 0.14 | 31.5 |
| 4/17/2015 23:53:54 | 51.18 | 44.98 | 583 | 2.13 | 0.14 | 31.9 |
| 4/17/2015 23:53:55 | 51.51 | 45.31 | 576 | 2.13 | 0.14 | 31.5 |
| 4/17/2015 23:53:56 | 51.84 | 45.64 | 579 | 2.14 | 0.14 | 31.6 |
| 4/17/2015 23:53:56 | 52.17 | 45.97 | 572 | 2.14 | 0.14 | 31.3 |
| 4/17/2015 23:53:57 | 52.49 | 46.29 | 557 | 2.15 | 0.14 | 30.5 |
| 4/17/2015 23:53:58 | 52.82 | 46.62 | 532 | 2.14 | 0.14 | 29.1 |
| 4/17/2015 23:53:58 | 53.15 | 46.95 | 521 | 2.16 | 0.14 | 28.5 |
| 4/17/2015 23:53:59 | 53.48 | 47.28 | 503 | 2.16 | 0.13 | 27.5 |
| 4/17/2015 23:54:00 | 53.81 | 47.61 | 489 | 2.16 | 0.14 | 26.7 |
| 4/17/2015 23:54:00 | 54.13 | 47.93 | 486 | 2.16 | 0.13 | 26.6 |
| 4/17/2015 23:54:01 | 54.46 | 48.26 | 463 | 2.17 | 0.13 | 25.3 |
| 4/17/2015 23:54:04 | 54.79 | 48.59 | 171 | 2.19 | 0.14 | 9.4 |
| 4/17/2015 23:54:05 | 55.12 | 48.92 | 168 | 2.19 | 0.13 | 9.2 |
| 4/17/2015 23:54:06 | 55.45 | 49.25 | 317 | 2.19 | 0.14 | 17.4 |
| 4/17/2015 23:54:07 | 55.77 | 49.57 | 370 | 2.21 | 0.14 | 20.2 |
| 4/17/2015 23:54:39 | 56.10 | 49.90 | 39 | 2.17 | 1.15 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 23:54:40 | 56.43 | 50.23 | 137 | 2.15 | 1.03 | 7.5 |
| 4/17/2015 | 23:54:41 | 56.76 | 50.56 | 334 | 2.15 | 0.97 | 18.2 |
| 4/17/2015 | 23:54:41 | 57.09 | 50.89 | 440 | 2.15 | 0.96 | 24.0 |
| 4/17/2015 | 23:54:48 | 57.41 | 51.21 | 85 | 2.17 | 1.02 | 4.7 |
| 4/17/2015 | 23:54:49 | 57.74 | 51.54 | 260 | 2.19 | 1.08 | 14.2 |
| 4/17/2015 | 23:54:50 | 58.07 | 51.87 | 339 | 2.17 | 0.98 | 18.5 |
| 4/17/2015 | 23:54:51 | 58.40 | 52.20 | 428 | 2.39 | 1.09 | 23.4 |
| 4/17/2015 | 23:54:53 | 58.73 | 52.53 | 146 | 2.19 | 1.03 | 8.0 |
| 4/17/2015 | 23:55:00 | 59.06 | 52.86 | 61 | 2.19 | 1.20 | 3.3 |
| 4/17/2015 | 23:55:01 | 59.38 | 53.18 | 217 | 2.25 | 1.16 | 11.9 |
| 4/17/2015 | 23:55:05 | 59.71 | 53.51 | 87 | 2.15 | 0.84 | 4.7 |
| 4/17/2015 | 23:55:05 | 60.04 | 53.84 | 100 | 2.14 | 0.84 | 5.5 |
| 4/17/2015 | 23:55:07 | 60.37 | 54.17 | 262 | 2.21 | 0.84 | 14.3 |
| 4/17/2015 | 23:55:08 | 60.70 | 54.50 | 297 | 2.15 | 0.98 | 16.2 |
| 4/17/2015 | 23:55:11 | 61.02 | 54.82 | 18 | 2.14 | 0.84 | 1.0 |
| 4/17/2015 | 23:55:11 | 61.27 | 55.07 | 121 | 2.14 | 0.95 | 6.6 |

## C59 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 23:50:54

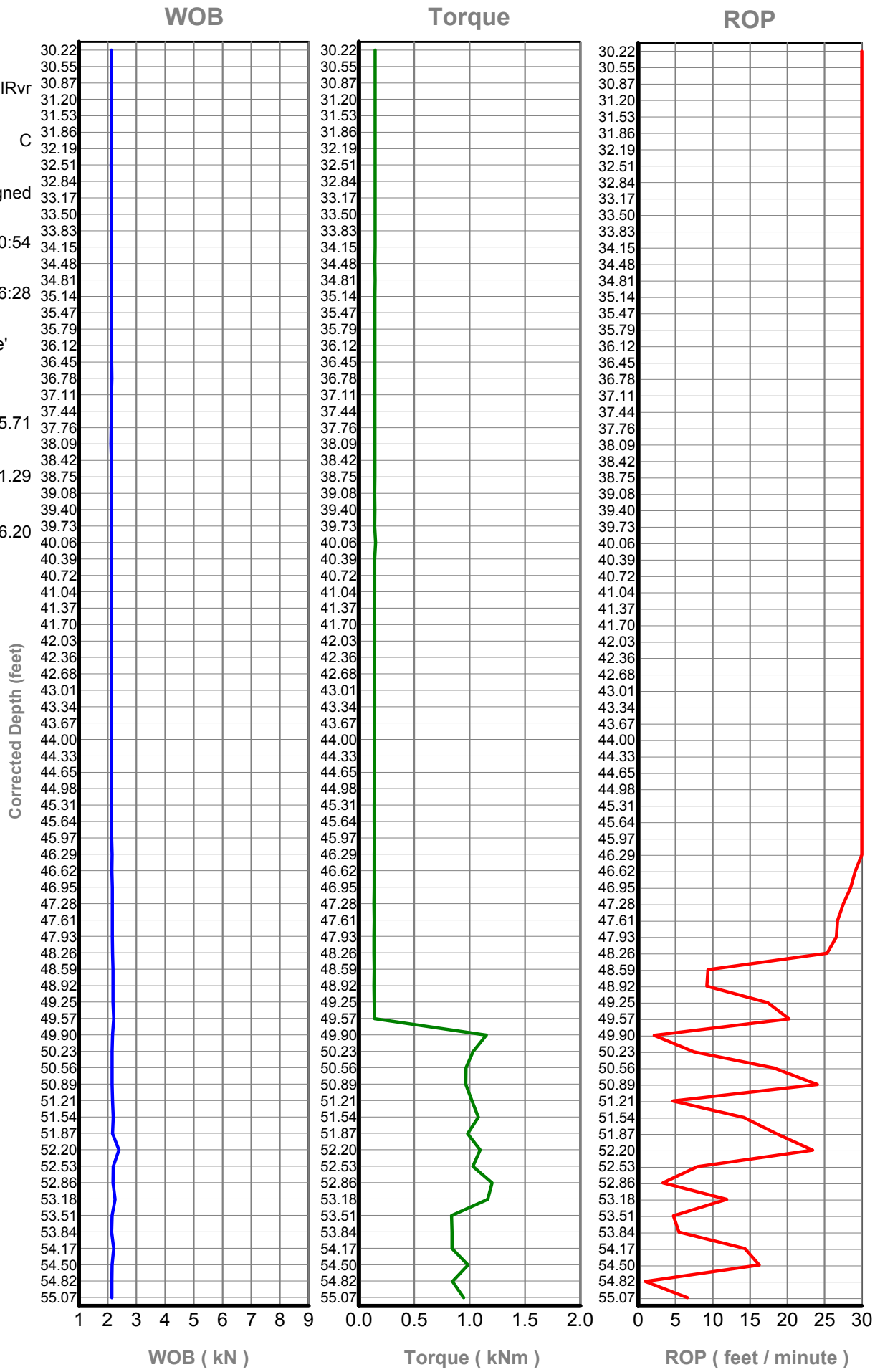
**End Date:**
4/17/2015 23:56:28

**Operator Note:**
'6.2 6.3 c Auto Complete'

**Northing:**
370,875.71

**Easting:**
258,191.29

**Tide (feet):**
6.20



## Hole: C6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:05:13 | 32.48 | 30.18 | 1,012 | 0.19 | 0.35 | 55.3 |
| 4/17/2015 21:05:14 | 32.81 | 30.51 | 1,012 | 0.19 | 0.35 | 55.3 |
| 4/17/2015 21:05:14 | 33.14 | 30.84 | 1,006 | 0.19 | 0.34 | 55.0 |
| 4/17/2015 21:05:14 | 33.46 | 31.16 | 1,009 | 0.19 | 0.34 | 55.2 |
| 4/17/2015 21:05:15 | 33.79 | 31.49 | 1,009 | 0.19 | 0.34 | 55.2 |
| 4/17/2015 21:05:15 | 34.12 | 31.82 | 1,003 | 0.19 | 0.35 | 54.9 |
| 4/17/2015 21:05:15 | 34.45 | 32.15 | 1,012 | 0.19 | 0.34 | 55.3 |
| 4/17/2015 21:05:16 | 34.78 | 32.48 | 1,012 | 0.19 | 0.34 | 55.3 |
| 4/17/2015 21:05:16 | 35.11 | 32.81 | 1,006 | 0.19 | 0.34 | 55.0 |
| 4/17/2015 21:05:16 | 35.43 | 33.13 | 1,003 | 0.19 | 0.35 | 54.9 |
| 4/17/2015 21:05:17 | 35.76 | 33.46 | 1,003 | 0.19 | 0.35 | 54.9 |
| 4/17/2015 21:05:17 | 36.09 | 33.79 | 1,003 | 0.19 | 0.35 | 54.9 |
| 4/17/2015 21:05:17 | 36.42 | 34.12 | 1,003 | 0.18 | 0.35 | 54.9 |
| 4/17/2015 21:05:18 | 36.75 | 34.45 | 997 | 0.19 | 0.34 | 54.5 |
| 4/17/2015 21:05:18 | 37.07 | 34.77 | 997 | 0.19 | 0.34 | 54.5 |
| 4/17/2015 21:05:18 | 37.40 | 35.10 | 994 | 0.19 | 0.35 | 54.4 |
| 4/17/2015 21:05:19 | 37.73 | 35.43 | 988 | 0.19 | 0.35 | 54.0 |
| 4/17/2015 21:05:19 | 38.06 | 35.76 | 988 | 0.19 | 0.35 | 54.0 |
| 4/17/2015 21:05:19 | 38.39 | 36.09 | 994 | 0.19 | 0.35 | 54.4 |
| 4/17/2015 21:05:20 | 38.71 | 36.41 | 989 | 0.19 | 0.35 | 54.1 |
| 4/17/2015 21:05:20 | 39.04 | 36.74 | 989 | 0.19 | 0.35 | 54.1 |
| 4/17/2015 21:05:20 | 39.37 | 37.07 | 986 | 0.19 | 0.34 | 53.9 |
| 4/17/2015 21:05:21 | 39.70 | 37.40 | 994 | 0.19 | 0.35 | 54.4 |
| 4/17/2015 21:05:22 | 40.03 | 37.73 | 994 | 0.19 | 0.35 | 54.4 |
| 4/17/2015 21:05:21 | 40.35 | 38.05 | 984 | 0.19 | 0.34 | 53.8 |
| 4/17/2015 21:05:22 | 40.68 | 38.38 | 984 | 0.19 | 0.34 | 53.8 |
| 4/17/2015 21:05:22 | 41.01 | 38.71 | 986 | 0.19 | 0.34 | 53.9 |
| 4/17/2015 21:05:23 | 41.34 | 39.04 | 986 | 0.19 | 0.34 | 53.9 |
| 4/17/2015 21:05:23 | 41.67 | 39.37 | 988 | 0.18 | 0.34 | 54.0 |
| 4/17/2015 21:05:24 | 41.99 | 39.69 | 997 | 0.19 | 0.34 | 54.5 |
| 4/17/2015 21:05:24 | 42.32 | 40.02 | 997 | 0.19 | 0.34 | 54.5 |
| 4/17/2015 21:05:24 | 42.65 | 40.35 | 988 | 0.19 | 0.35 | 54.0 |
| 4/17/2015 21:05:25 | 42.98 | 40.68 | 1,002 | 0.18 | 0.34 | 54.8 |
| 4/17/2015 21:05:25 | 43.31 | 41.01 | 1,002 | 0.18 | 0.34 | 54.8 |
| 4/17/2015 21:05:25 | 43.64 | 41.34 | 978 | 0.18 | 0.34 | 53.5 |
| 4/17/2015 21:05:26 | 43.96 | 41.66 | 993 | 0.19 | 0.34 | 54.3 |
| 4/17/2015 21:05:26 | 44.29 | 41.99 | 993 | 0.19 | 0.34 | 54.3 |
| 4/17/2015 21:05:26 | 44.62 | 42.32 | 961 | 0.18 | 0.35 | 52.6 |
| 4/17/2015 21:05:27 | 44.95 | 42.65 | 961 | 0.19 | 0.34 | 52.6 |
| 4/17/2015 21:05:27 | 45.28 | 42.98 | 973 | 0.18 | 0.34 | 53.2 |
| 4/17/2015 21:05:28 | 45.60 | 43.30 | 973 | 0.18 | 0.34 | 53.2 |
| 4/17/2015 21:05:28 | 45.93 | 43.63 | 975 | 0.16 | 0.38 | 53.3 |
| 4/17/2015 21:05:32 | 46.26 | 43.96 | 54 | 0.16 | 0.42 | 3.0 |
| 4/17/2015 21:05:47 | 46.59 | 44.29 | 3 | 0.16 | 0.43 | 0.1 |
| 4/17/2015 21:06:30 | 46.92 | 44.62 | 93 | 3.81 | 0.41 | 5.1 |
| 4/17/2015 21:06:31 | 47.24 | 44.94 | 205 | 5.62 | 0.41 | 11.2 |
| 4/17/2015 21:06:33 | 47.57 | 45.27 | 231 | 3.88 | 0.41 | 12.7 |
| 4/17/2015 21:06:34 | 47.90 | 45.60 | 269 | 4.82 | 0.41 | 14.7 |
| 4/17/2015 21:06:36 | 48.23 | 45.93 | 233 | 4.73 | 0.41 | 12.7 |
| 4/17/2015 21:06:37 | 48.56 | 46.26 | 196 | 3.22 | 0.40 | 10.7 |
| 4/17/2015 21:06:38 | 48.88 | 46.58 | 305 | 2.80 | 0.38 | 16.7 |
| 4/17/2015 21:06:39 | 49.21 | 46.91 | 364 | 2.43 | 0.38 | 19.9 |
| 4/17/2015 21:06:39 | 49.54 | 47.24 | 454 | 2.66 | 0.38 | 24.8 |
| 4/17/2015 21:06:56 | 49.87 | 47.57 | 41 | 2.00 | 0.36 | 2.3 |
| 4/17/2015 21:06:56 | 50.20 | 47.90 | 207 | 2.10 | 0.34 | 11.3 |
| 4/17/2015 21:06:57 | 50.53 | 48.23 | 207 | 2.10 | 0.34 | 11.3 |
| 4/17/2015 21:06:58 | 50.85 | 48.55 | 480 | 2.23 | 0.38 | 26.2 |
| 4/17/2015 21:06:58 | 51.18 | 48.88 | 597 | 2.21 | 0.37 | 32.6 |
| 4/17/2015 21:06:59 | 51.51 | 49.21 | 691 | 2.18 | 0.37 | 37.8 |
| 4/17/2015 21:06:59 | 51.84 | 49.54 | 662 | 2.21 | 0.37 | 36.2 |
| 4/17/2015 21:07:00 | 52.17 | 49.87 | 647 | 2.31 | 0.38 | 35.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:07:00 | 52.49 | 50.19 | 653 | 2.33 | 0.38 | 35.7 |
| 4/17/2015 | 21:07:01 | 52.82 | 50.52 | 650 | 2.09 | 0.37 | 35.6 |
| 4/17/2015 | 21:07:01 | 53.15 | 50.85 | 645 | 2.71 | 0.41 | 35.2 |
| 4/17/2015 | 21:07:02 | 53.48 | 51.18 | 539 | 2.84 | 0.39 | 29.4 |
| 4/17/2015 | 21:07:03 | 53.81 | 51.51 | 506 | 2.86 | 0.39 | 27.7 |
| 4/17/2015 | 21:07:04 | 54.13 | 51.83 | 443 | 2.31 | 0.40 | 24.2 |
| 4/17/2015 | 21:07:05 | 54.46 | 52.16 | 442 | 2.42 | 0.39 | 24.2 |
| 4/17/2015 | 21:07:05 | 54.79 | 52.49 | 433 | 2.31 | 0.38 | 23.7 |
| 4/17/2015 | 21:07:06 | 55.12 | 52.82 | 445 | 2.52 | 0.39 | 24.3 |
| 4/17/2015 | 21:07:07 | 55.45 | 53.15 | 456 | 2.23 | 0.39 | 25.0 |
| 4/17/2015 | 21:07:08 | 55.77 | 53.47 | 452 | 2.95 | 0.42 | 24.7 |
| 4/17/2015 | 21:07:10 | 56.10 | 53.80 | 193 | 4.15 | 0.42 | 10.6 |
| 4/17/2015 | 21:07:17 | 56.43 | 54.13 | 20 | 3.71 | 0.41 | 1.1 |
| 4/17/2015 | 21:07:21 | 56.76 | 54.46 | 116 | 3.18 | 0.41 | 6.3 |
| 4/17/2015 | 21:07:25 | 57.09 | 54.79 | 78 | 3.20 | 0.41 | 4.2 |
| 4/17/2015 | 21:07:30 | 57.41 | 55.11 | 72 | 3.24 | 0.42 | 3.9 |
| 4/17/2015 | 21:07:35 | 57.74 | 55.44 | 54 | 3.33 | 0.42 | 3.0 |
| 4/17/2015 | 21:07:40 | 57.95 | 55.65 | 41 | 2.98 | 0.39 | 2.2 |

## C6 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:02:11

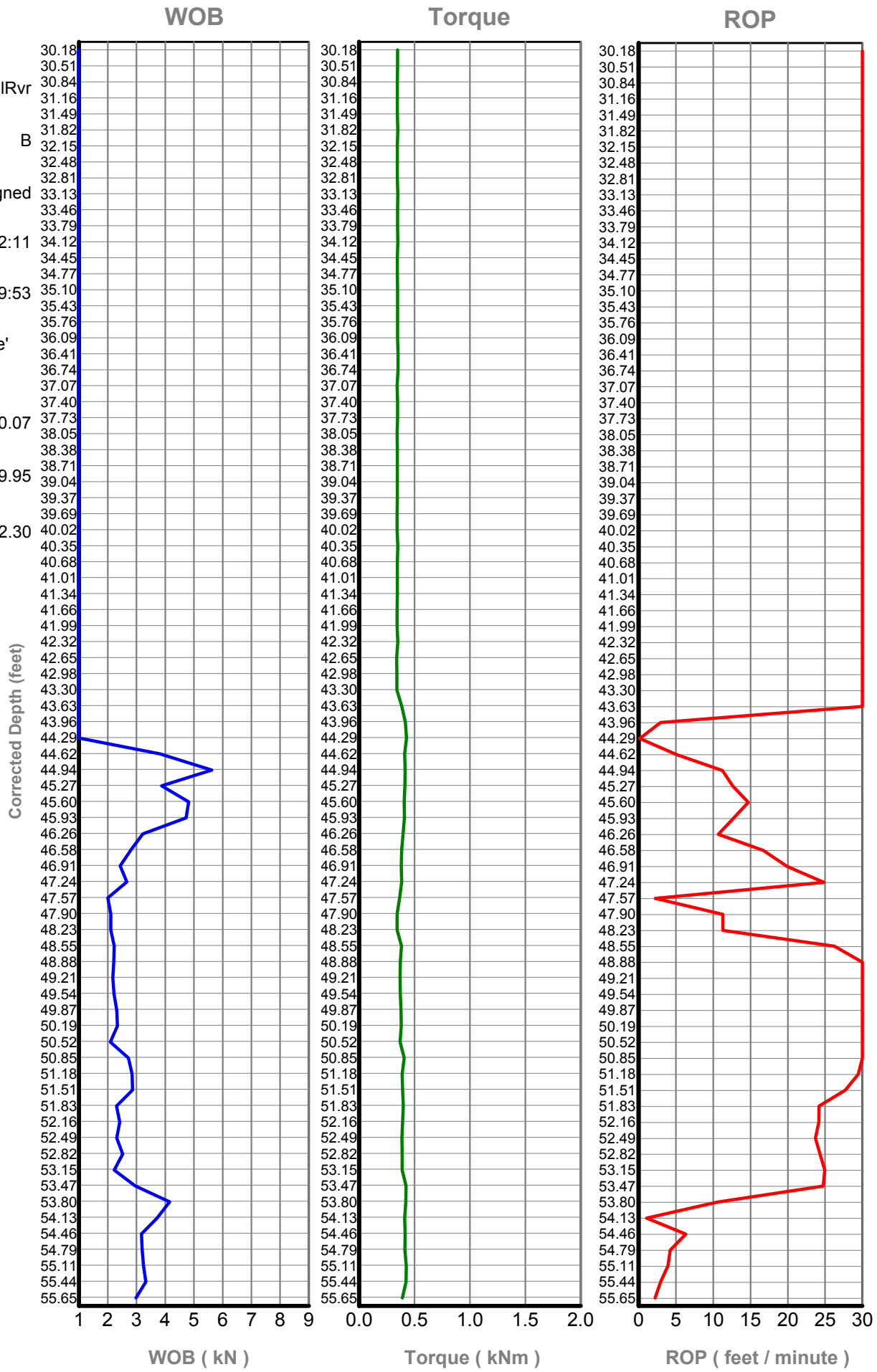
**End Date:**
4/17/2015 21:09:53

**Operator Note:**
'2.3 2.2 b Auto Complete'

**Northing:**
371,190.07

**Easting:**
257,969.95

**Tide (feet):**
2.30



## Hole: C60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 22:44:43 | 35.11 | 30.01 | 586 | 2.12 | 0.14 | 32.0 |
| 4/17/2015 22:44:44 | 35.43 | 30.33 | 586 | 2.11 | 0.14 | 32.1 |
| 4/17/2015 22:44:45 | 35.76 | 30.66 | 589 | 2.11 | 0.14 | 32.2 |
| 4/17/2015 22:44:45 | 36.09 | 30.99 | 605 | 2.12 | 0.14 | 33.1 |
| 4/17/2015 22:44:46 | 36.42 | 31.32 | 593 | 2.12 | 0.14 | 32.4 |
| 4/17/2015 22:44:46 | 36.75 | 31.65 | 596 | 2.12 | 0.14 | 32.6 |
| 4/17/2015 22:44:47 | 37.07 | 31.97 | 593 | 2.10 | 0.14 | 32.4 |
| 4/17/2015 22:44:47 | 37.40 | 32.30 | 593 | 2.11 | 0.14 | 32.4 |
| 4/17/2015 22:44:49 | 37.73 | 32.63 | 595 | 2.10 | 0.14 | 32.6 |
| 4/17/2015 22:44:49 | 38.06 | 32.96 | 593 | 2.10 | 0.14 | 32.4 |
| 4/17/2015 22:44:50 | 38.39 | 33.29 | 593 | 2.11 | 0.14 | 32.4 |
| 4/17/2015 22:44:50 | 38.71 | 33.61 | 593 | 2.12 | 0.14 | 32.4 |
| 4/17/2015 22:44:51 | 39.04 | 33.94 | 595 | 2.10 | 0.14 | 32.6 |
| 4/17/2015 22:44:51 | 39.37 | 34.27 | 593 | 2.11 | 0.14 | 32.4 |
| 4/17/2015 22:44:52 | 39.70 | 34.60 | 593 | 2.14 | 0.14 | 32.4 |
| 4/17/2015 22:44:53 | 40.03 | 34.93 | 595 | 2.11 | 0.14 | 32.6 |
| 4/17/2015 22:44:53 | 40.35 | 35.25 | 593 | 2.12 | 0.14 | 32.4 |
| 4/17/2015 22:44:54 | 40.68 | 35.58 | 593 | 2.03 | 0.14 | 32.4 |
| 4/17/2015 22:44:54 | 41.01 | 35.91 | 593 | 2.11 | 0.14 | 32.4 |
| 4/17/2015 22:44:55 | 41.34 | 36.24 | 595 | 2.12 | 0.14 | 32.6 |
| 4/17/2015 22:44:55 | 41.67 | 36.57 | 593 | 2.11 | 0.14 | 32.4 |
| 4/17/2015 22:44:56 | 41.99 | 36.89 | 586 | 2.10 | 0.14 | 32.0 |
| 4/17/2015 22:44:57 | 42.32 | 37.22 | 596 | 2.11 | 0.14 | 32.6 |
| 4/17/2015 22:44:57 | 42.65 | 37.55 | 590 | 2.12 | 0.14 | 32.3 |
| 4/17/2015 22:44:58 | 42.98 | 37.88 | 590 | 2.10 | 0.14 | 32.3 |
| 4/17/2015 22:44:59 | 43.31 | 38.21 | 593 | 2.12 | 0.14 | 32.4 |
| 4/17/2015 22:44:59 | 43.64 | 38.54 | 587 | 2.10 | 0.14 | 32.1 |
| 4/17/2015 22:45:00 | 43.96 | 38.86 | 583 | 2.12 | 0.14 | 31.9 |
| 4/17/2015 22:45:01 | 44.29 | 39.19 | 579 | 2.11 | 0.14 | 31.6 |
| 4/17/2015 22:45:01 | 44.62 | 39.52 | 579 | 2.38 | 0.14 | 31.6 |
| 4/17/2015 22:45:02 | 44.95 | 39.85 | 581 | 2.11 | 0.14 | 31.8 |
| 4/17/2015 22:45:02 | 45.28 | 40.18 | 584 | 2.12 | 0.14 | 31.9 |
| 4/17/2015 22:45:03 | 45.60 | 40.50 | 594 | 2.12 | 0.14 | 32.5 |
| 4/17/2015 22:45:03 | 45.93 | 40.83 | 588 | 2.10 | 0.14 | 32.2 |
| 4/17/2015 22:45:04 | 46.26 | 41.16 | 587 | 2.11 | 0.14 | 32.1 |
| 4/17/2015 22:45:05 | 46.59 | 41.49 | 587 | 2.11 | 0.14 | 32.1 |
| 4/17/2015 22:45:05 | 46.92 | 41.82 | 587 | 2.12 | 0.14 | 32.1 |
| 4/17/2015 22:45:06 | 47.24 | 42.14 | 587 | 2.11 | 0.14 | 32.1 |
| 4/17/2015 22:45:06 | 47.57 | 42.47 | 590 | 2.12 | 0.14 | 32.2 |
| 4/17/2015 22:45:07 | 47.90 | 42.80 | 589 | 2.10 | 0.14 | 32.2 |
| 4/17/2015 22:45:08 | 48.23 | 43.13 | 590 | 2.12 | 0.14 | 32.3 |
| 4/17/2015 22:45:08 | 48.56 | 43.46 | 594 | 2.11 | 0.14 | 32.5 |
| 4/17/2015 22:45:09 | 48.88 | 43.78 | 590 | 2.12 | 0.14 | 32.3 |
| 4/17/2015 22:45:10 | 49.21 | 44.11 | 594 | 2.12 | 0.14 | 32.5 |
| 4/17/2015 22:45:10 | 49.54 | 44.44 | 577 | 2.11 | 0.14 | 31.6 |
| 4/17/2015 22:45:11 | 49.87 | 44.77 | 577 | 2.12 | 0.14 | 31.6 |
| 4/17/2015 22:45:12 | 50.20 | 45.10 | 584 | 2.10 | 0.14 | 31.9 |
| 4/17/2015 22:45:12 | 50.53 | 45.43 | 584 | 2.10 | 0.14 | 31.9 |
| 4/17/2015 22:45:13 | 50.85 | 45.75 | 584 | 2.12 | 0.14 | 31.9 |
| 4/17/2015 22:45:13 | 51.18 | 46.08 | 584 | 2.11 | 0.14 | 31.9 |
| 4/17/2015 22:45:14 | 51.51 | 46.41 | 587 | 2.12 | 0.14 | 32.1 |
| 4/17/2015 22:45:14 | 51.84 | 46.74 | 575 | 2.12 | 0.14 | 31.4 |
| 4/17/2015 22:45:15 | 52.17 | 47.07 | 577 | 2.13 | 0.14 | 31.5 |
| 4/17/2015 22:45:49 | 52.49 | 47.39 | 40 | 2.19 | 1.09 | 2.2 |
| 4/17/2015 22:45:50 | 52.82 | 47.72 | 155 | 2.19 | 1.19 | 8.5 |
| 4/17/2015 22:45:54 | 53.15 | 48.05 | 4 | 2.14 | 1.01 | 0.2 |
| 4/17/2015 22:45:55 | 53.48 | 48.38 | 96 | 2.17 | 1.16 | 5.2 |
| 4/17/2015 22:45:56 | 53.81 | 48.71 | 240 | 2.16 | 1.02 | 13.1 |
| 4/17/2015 22:45:57 | 54.13 | 49.03 | 411 | 2.14 | 0.98 | 22.5 |
| 4/17/2015 22:45:57 | 54.46 | 49.36 | 414 | 2.15 | 1.07 | 22.6 |
| 4/17/2015 22:46:01 | 54.79 | 49.69 | 78 | 2.17 | 1.18 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 22:46:02 | 55.12 | 50.02 | 229 | 2.14 | 0.90 | 12.5 |
| 4/17/2015 | 22:46:03 | 55.45 | 50.35 | 329 | 2.14 | 1.04 | 18.0 |
| 4/17/2015 | 22:46:03 | 55.77 | 50.67 | 423 | 2.14 | 0.97 | 23.1 |
| 4/17/2015 | 22:46:04 | 56.10 | 51.00 | 477 | 2.18 | 1.27 | 26.1 |
| 4/17/2015 | 22:46:05 | 56.43 | 51.33 | 444 | 2.14 | 0.96 | 24.3 |
| 4/17/2015 | 22:46:06 | 56.76 | 51.66 | 438 | 2.13 | 0.95 | 24.0 |
| 4/17/2015 | 22:46:06 | 57.09 | 51.99 | 450 | 2.11 | 0.96 | 24.6 |
| 4/17/2015 | 22:46:07 | 57.41 | 52.31 | 468 | 2.14 | 0.96 | 25.6 |
| 4/17/2015 | 22:46:08 | 57.74 | 52.64 | 500 | 2.14 | 1.00 | 27.4 |
| 4/17/2015 | 22:46:08 | 58.07 | 52.97 | 503 | 2.13 | 0.94 | 27.5 |
| 4/17/2015 | 22:46:09 | 58.40 | 53.30 | 497 | 2.14 | 0.99 | 27.2 |
| 4/17/2015 | 22:46:10 | 58.73 | 53.63 | 494 | 2.14 | 0.96 | 27.0 |
| 4/17/2015 | 22:46:11 | 59.06 | 53.96 | 497 | 2.14 | 1.01 | 27.2 |
| 4/17/2015 | 22:46:12 | 59.38 | 54.28 | 491 | 2.14 | 0.96 | 26.9 |
| 4/17/2015 | 22:46:12 | 59.71 | 54.61 | 488 | 2.13 | 0.96 | 26.7 |
| 4/17/2015 | 22:46:13 | 60.04 | 54.94 | 500 | 2.12 | 0.96 | 27.3 |
| 4/17/2015 | 22:46:14 | 60.23 | 55.13 | 497 | 2.03 | 0.98 | 27.2 |

## C60 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/17/2015 22:42:45

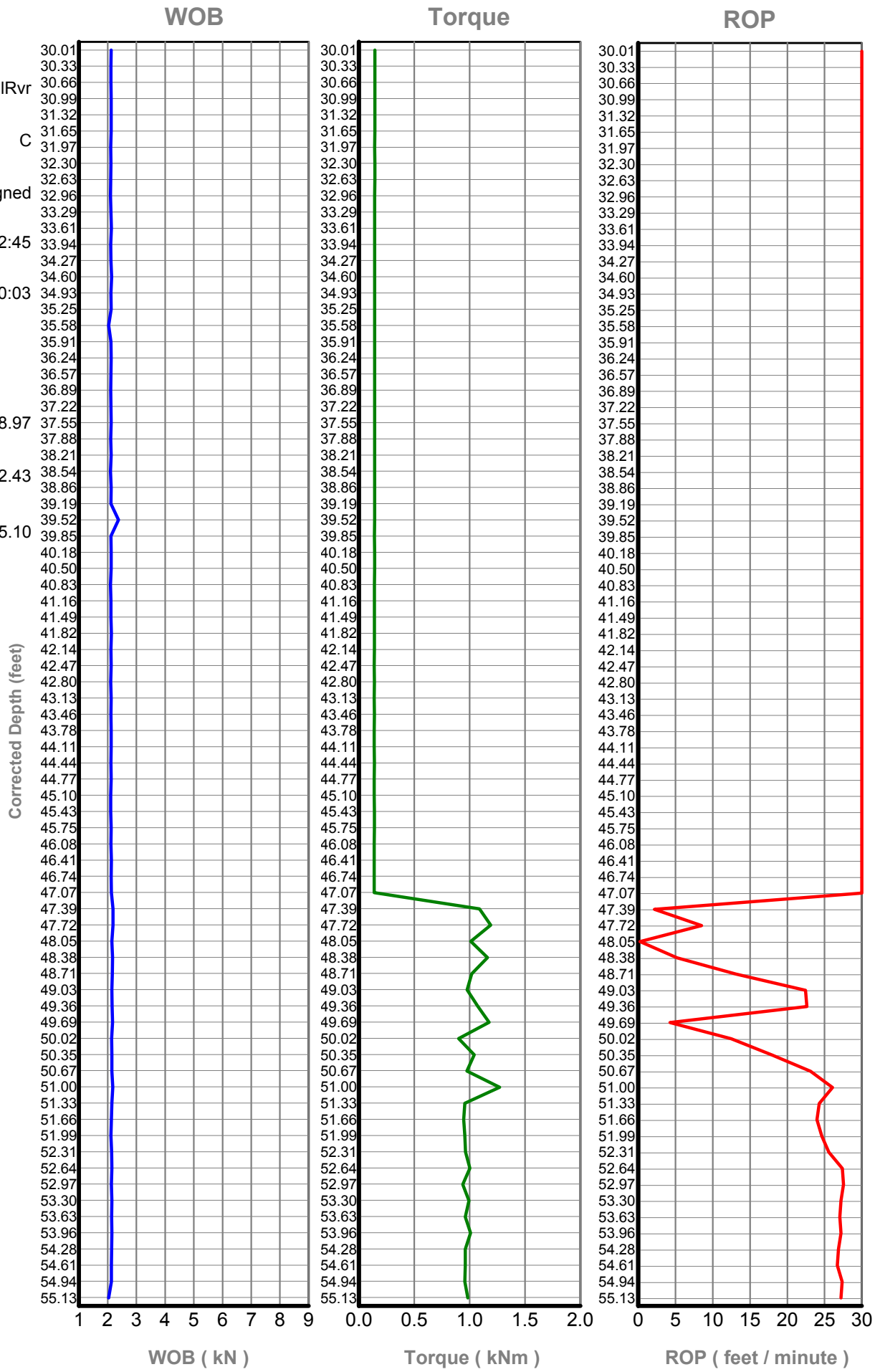
**End Date:**
4/17/2015 23:00:03

**Operator Note:**
'5.1 4.9 c Auto Complete'

**Northing:**
370,938.97

**Easting:**
258,172.43

**Tide (feet):**
5.10



## Hole: C7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 21:04:49 | 32.48 | 30.18 | 1,115 | 0.49 | 0.32 | 61.0 |
| 4/17/2015 21:04:49 | 32.81 | 30.51 | 1,115 | 0.49 | 0.32 | 61.0 |
| 4/17/2015 21:04:49 | 33.14 | 30.84 | 1,128 | 0.49 | 0.33 | 61.7 |
| 4/17/2015 21:04:50 | 33.46 | 31.16 | 1,134 | 0.48 | 0.33 | 62.0 |
| 4/17/2015 21:04:50 | 33.79 | 31.49 | 1,134 | 0.48 | 0.33 | 62.0 |
| 4/17/2015 21:04:50 | 34.12 | 31.82 | 1,138 | 0.49 | 0.33 | 62.2 |
| 4/17/2015 21:04:51 | 34.45 | 32.15 | 1,138 | 0.49 | 0.33 | 62.2 |
| 4/17/2015 21:04:51 | 34.78 | 32.48 | 1,128 | 0.48 | 0.33 | 61.7 |
| 4/17/2015 21:04:51 | 35.11 | 32.81 | 1,151 | 0.49 | 0.33 | 63.0 |
| 4/17/2015 21:04:52 | 35.43 | 33.13 | 1,151 | 0.49 | 0.33 | 63.0 |
| 4/17/2015 21:04:52 | 35.76 | 33.46 | 1,149 | 0.49 | 0.32 | 62.8 |
| 4/17/2015 21:04:52 | 36.09 | 33.79 | 1,149 | 0.49 | 0.32 | 62.8 |
| 4/17/2015 21:04:52 | 36.42 | 34.12 | 1,139 | 0.49 | 0.33 | 62.3 |
| 4/17/2015 21:04:53 | 36.75 | 34.45 | 1,139 | 0.49 | 0.33 | 62.3 |
| 4/17/2015 21:04:53 | 37.07 | 34.77 | 1,139 | 0.49 | 0.33 | 62.3 |
| 4/17/2015 21:04:53 | 37.40 | 35.10 | 1,136 | 0.48 | 0.33 | 62.1 |
| 4/17/2015 21:04:54 | 37.73 | 35.43 | 1,136 | 0.48 | 0.33 | 62.1 |
| 4/17/2015 21:04:54 | 38.06 | 35.76 | 1,139 | 0.49 | 0.33 | 62.3 |
| 4/17/2015 21:04:54 | 38.39 | 36.09 | 1,136 | 0.49 | 0.32 | 62.1 |
| 4/17/2015 21:04:55 | 38.71 | 36.41 | 1,136 | 0.49 | 0.32 | 62.1 |
| 4/17/2015 21:04:55 | 39.04 | 36.74 | 1,133 | 0.49 | 0.32 | 62.0 |
| 4/17/2015 21:04:55 | 39.37 | 37.07 | 1,133 | 0.49 | 0.32 | 62.0 |
| 4/17/2015 21:04:55 | 39.70 | 37.40 | 1,126 | 0.49 | 0.33 | 61.6 |
| 4/17/2015 21:04:56 | 40.03 | 37.73 | 1,132 | 0.49 | 0.32 | 61.9 |
| 4/17/2015 21:04:56 | 40.35 | 38.05 | 1,132 | 0.49 | 0.32 | 61.9 |
| 4/17/2015 21:04:56 | 40.68 | 38.38 | 1,136 | 0.49 | 0.34 | 62.1 |
| 4/17/2015 21:04:57 | 41.01 | 38.71 | 1,136 | 0.49 | 0.34 | 62.1 |
| 4/17/2015 21:04:57 | 41.34 | 39.04 | 1,103 | 0.49 | 0.33 | 60.3 |
| 4/17/2015 21:04:57 | 41.67 | 39.37 | 1,103 | 0.49 | 0.34 | 60.3 |
| 4/17/2015 21:04:58 | 41.99 | 39.69 | 1,103 | 0.49 | 0.34 | 60.3 |
| 4/17/2015 21:04:58 | 42.32 | 40.02 | 1,122 | 0.49 | 0.32 | 61.4 |
| 4/17/2015 21:04:58 | 42.65 | 40.35 | 1,122 | 0.49 | 0.32 | 61.4 |
| 4/17/2015 21:04:58 | 42.98 | 40.68 | 1,129 | 0.49 | 0.32 | 61.7 |
| 4/17/2015 21:04:59 | 43.31 | 41.01 | 1,123 | 0.49 | 0.33 | 61.4 |
| 4/17/2015 21:05:00 | 43.64 | 41.34 | 1,123 | 0.49 | 0.33 | 61.4 |
| 4/17/2015 21:05:00 | 43.96 | 41.66 | 1,117 | 0.49 | 0.32 | 61.1 |
| 4/17/2015 21:05:00 | 44.29 | 41.99 | 1,117 | 0.49 | 0.32 | 61.1 |
| 4/17/2015 21:05:00 | 44.62 | 42.32 | 1,149 | 0.49 | 0.33 | 62.8 |
| 4/17/2015 21:05:01 | 44.95 | 42.65 | 1,130 | 0.48 | 0.34 | 61.8 |
| 4/17/2015 21:05:01 | 45.28 | 42.98 | 1,130 | 0.48 | 0.34 | 61.8 |
| 4/17/2015 21:05:01 | 45.60 | 43.30 | 1,130 | 0.48 | 0.33 | 61.8 |
| 4/17/2015 21:05:02 | 45.93 | 43.63 | 1,122 | 0.50 | 0.51 | 61.3 |
| 4/17/2015 21:05:21 | 46.26 | 43.96 | 23 | 3.25 | 0.40 | 1.3 |
| 4/17/2015 21:05:21 | 46.59 | 44.29 | 234 | 4.18 | 0.58 | 12.8 |
| 4/17/2015 21:05:28 | 46.92 | 44.62 | 40 | 4.98 | 0.55 | 2.2 |
| 4/17/2015 21:05:29 | 47.24 | 44.94 | 130 | 4.49 | 0.49 | 7.1 |
| 4/17/2015 21:05:29 | 47.57 | 45.27 | 221 | 3.16 | 0.41 | 12.1 |
| 4/17/2015 21:05:30 | 47.90 | 45.60 | 404 | 3.37 | 0.43 | 22.1 |
| 4/17/2015 21:05:31 | 48.23 | 45.93 | 515 | 3.66 | 0.44 | 28.2 |
| 4/17/2015 21:05:31 | 48.56 | 46.26 | 605 | 3.12 | 0.40 | 33.1 |
| 4/17/2015 21:05:32 | 48.88 | 46.58 | 730 | 3.18 | 0.44 | 39.9 |
| 4/17/2015 21:05:32 | 49.21 | 46.91 | 784 | 3.48 | 0.48 | 42.9 |
| 4/17/2015 21:05:33 | 49.54 | 47.24 | 725 | 3.25 | 0.41 | 39.6 |
| 4/17/2015 21:05:33 | 49.87 | 47.57 | 725 | 3.25 | 0.41 | 39.6 |
| 4/17/2015 21:05:33 | 50.20 | 47.90 | 747 | 3.17 | 0.44 | 40.8 |
| 4/17/2015 21:05:34 | 50.53 | 48.23 | 753 | 3.37 | 0.44 | 41.2 |
| 4/17/2015 21:05:34 | 50.85 | 48.55 | 719 | 2.99 | 0.40 | 39.3 |
| 4/17/2015 21:05:35 | 51.18 | 48.88 | 750 | 3.52 | 0.46 | 41.0 |
| 4/17/2015 21:05:35 | 51.51 | 49.21 | 750 | 3.54 | 0.48 | 41.0 |
| 4/17/2015 21:05:36 | 51.84 | 49.54 | 700 | 3.26 | 0.43 | 38.3 |
| 4/17/2015 21:05:36 | 52.17 | 49.87 | 694 | 3.26 | 0.41 | 38.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/17/2015 | 21:05:37 | 52.49 | 50.19 | 731 | 3.22 | 0.42 | 40.0 |
| 4/17/2015 | 21:05:37 | 52.82 | 50.52 | 717 | 3.45 | 0.45 | 39.2 |
| 4/17/2015 | 21:05:38 | 53.15 | 50.85 | 720 | 3.40 | 0.47 | 39.4 |
| 4/17/2015 | 21:05:38 | 53.48 | 51.18 | 714 | 3.33 | 0.48 | 39.0 |
| 4/17/2015 | 21:05:39 | 53.81 | 51.51 | 568 | 3.05 | 0.41 | 31.1 |
| 4/17/2015 | 21:05:40 | 54.13 | 51.83 | 562 | 3.29 | 0.43 | 30.7 |
| 4/17/2015 | 21:05:40 | 54.46 | 52.16 | 574 | 3.33 | 0.44 | 31.4 |
| 4/17/2015 | 21:05:41 | 54.79 | 52.49 | 574 | 3.11 | 0.45 | 31.4 |
| 4/17/2015 | 21:05:42 | 55.12 | 52.82 | 595 | 3.09 | 0.41 | 32.5 |
| 4/17/2015 | 21:05:42 | 55.45 | 53.15 | 649 | 2.84 | 0.39 | 35.5 |
| 4/17/2015 | 21:05:43 | 55.77 | 53.47 | 649 | 2.84 | 0.39 | 35.5 |
| 4/17/2015 | 21:05:43 | 56.10 | 53.80 | 761 | 2.85 | 0.43 | 41.6 |
| 4/17/2015 | 21:05:43 | 56.43 | 54.13 | 769 | 2.78 | 0.41 | 42.1 |
| 4/17/2015 | 21:05:44 | 56.76 | 54.46 | 794 | 3.17 | 0.44 | 43.4 |
| 4/17/2015 | 21:05:44 | 57.09 | 54.79 | 795 | 2.93 | 0.43 | 43.5 |
| 4/17/2015 | 21:05:45 | 57.41 | 55.11 | 786 | 3.45 | 0.43 | 43.0 |
| 4/17/2015 | 21:05:45 | 57.74 | 55.44 | 743 | 3.28 | 0.45 | 40.6 |
| 4/17/2015 | 21:05:46 | 58.07 | 55.77 | 717 | 3.40 | 0.43 | 39.2 |
| 4/17/2015 | 21:05:46 | 58.18 | 55.88 | 717 | 3.40 | 0.43 | 39.2 |

## C7 - Summary

**Pattern Number:**
AreaC_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/17/2015 21:00:58

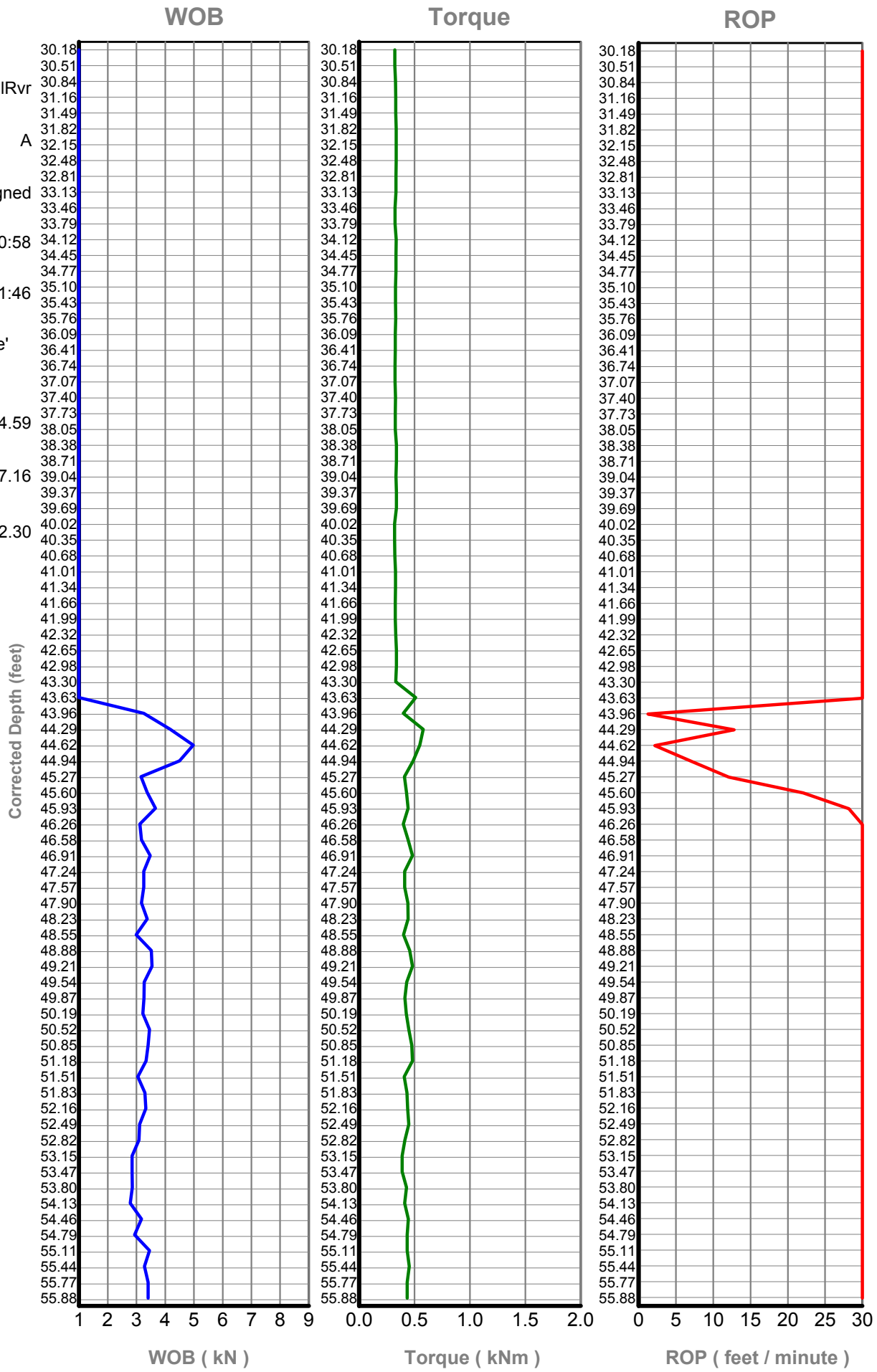
**End Date:**
4/17/2015 21:21:46

**Operator Note:**
'2.3 2.2 a Auto Complete'

**Northing:**
371,224.59

**Easting:**
258,037.16

**Tide (feet):**
2.30



## Hole: C8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 20:33:10 | 31.50 | 30.20 | 557 | 2.14 | 0.13 | 30.4 |
| 4/17/2015 20:33:11 | 31.82 | 30.52 | 544 | 2.13 | 0.13 | 29.7 |
| 4/17/2015 20:33:12 | 32.15 | 30.85 | 546 | 2.12 | 0.13 | 29.9 |
| 4/17/2015 20:33:12 | 32.48 | 31.18 | 549 | 2.13 | 0.13 | 30.0 |
| 4/17/2015 20:33:13 | 32.81 | 31.51 | 543 | 2.13 | 0.13 | 29.7 |
| 4/17/2015 20:33:14 | 33.14 | 31.84 | 543 | 2.13 | 0.13 | 29.7 |
| 4/17/2015 20:33:14 | 33.46 | 32.16 | 546 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:15 | 33.79 | 32.49 | 546 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:15 | 34.12 | 32.82 | 546 | 2.13 | 0.13 | 29.9 |
| 4/17/2015 20:33:16 | 34.45 | 33.15 | 546 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:17 | 34.78 | 33.48 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:18 | 35.11 | 33.81 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:18 | 35.43 | 34.13 | 540 | 2.15 | 0.13 | 29.5 |
| 4/17/2015 20:33:19 | 35.76 | 34.46 | 543 | 2.15 | 0.13 | 29.7 |
| 4/17/2015 20:33:20 | 36.09 | 34.79 | 543 | 2.13 | 0.13 | 29.7 |
| 4/17/2015 20:33:20 | 36.42 | 35.12 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:21 | 36.75 | 35.45 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:22 | 37.07 | 35.77 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:22 | 37.40 | 36.10 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:23 | 37.73 | 36.43 | 546 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:24 | 38.06 | 36.76 | 543 | 2.13 | 0.13 | 29.7 |
| 4/17/2015 20:33:24 | 38.39 | 37.09 | 537 | 2.14 | 0.13 | 29.4 |
| 4/17/2015 20:33:25 | 38.71 | 37.41 | 544 | 2.14 | 0.13 | 29.8 |
| 4/17/2015 20:33:25 | 39.04 | 37.74 | 544 | 2.13 | 0.13 | 29.8 |
| 4/17/2015 20:33:26 | 39.37 | 38.07 | 547 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:27 | 39.70 | 38.40 | 553 | 2.14 | 0.13 | 30.3 |
| 4/17/2015 20:33:28 | 40.03 | 38.73 | 547 | 2.14 | 0.13 | 29.9 |
| 4/17/2015 20:33:28 | 40.35 | 39.05 | 543 | 2.14 | 0.13 | 29.7 |
| 4/17/2015 20:33:56 | 40.68 | 39.38 | 0 | 2.27 | 1.25 | 0.0 |
| 4/17/2015 20:34:15 | 41.01 | 39.71 | 83 | 2.33 | 1.27 | 4.6 |
| 4/17/2015 20:34:20 | 41.34 | 40.04 | 84 | 2.33 | 1.27 | 4.6 |
| 4/17/2015 20:34:23 | 41.67 | 40.37 | 83 | 2.33 | 1.24 | 4.6 |
| 4/17/2015 20:34:26 | 41.80 | 40.50 | 70 | 2.31 | 1.48 | 3.8 |

## C8 - Summary

**Pattern Number:**
AreaC_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/17/2015 20:31:30

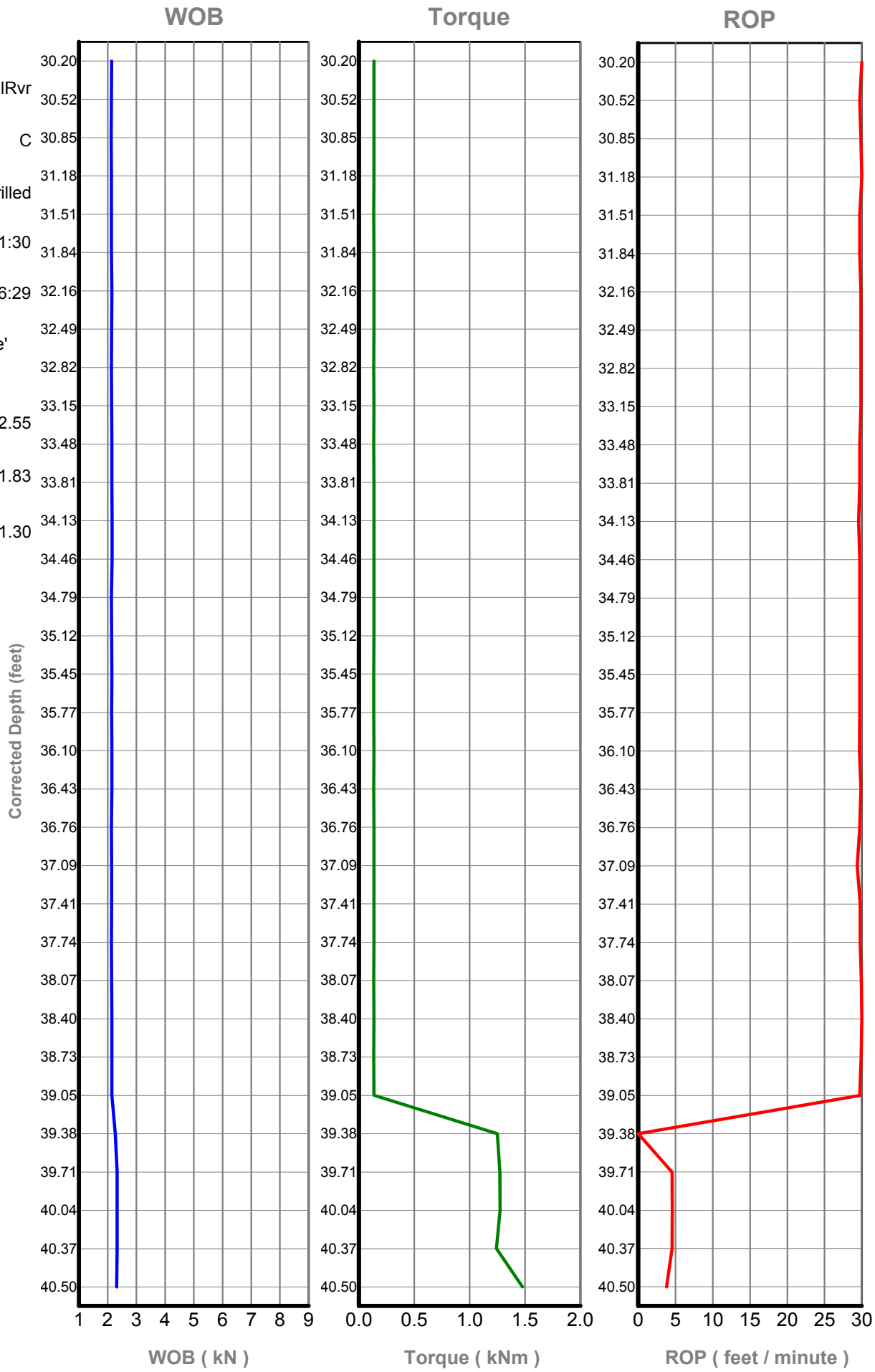
**End Date:**
4/17/2015 20:36:29

**Operator Note:**
'1.3 1.3 c Auto Complete'

**Northing:**
371,312.55

**Easting:**
258,231.83

**Tide (feet):**
1.30



## Hole: C9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/17/2015 17:00:03 | 32.15 | 30.15 | 937 | 0.35 | 0.35 | 51.3 |
| 4/17/2015 17:00:03 | 32.48 | 30.48 | 946 | 0.34 | 0.35 | 51.7 |
| 4/17/2015 17:00:04 | 32.81 | 30.81 | 940 | 0.34 | 0.35 | 51.4 |
| 4/17/2015 17:00:04 | 33.14 | 31.14 | 940 | 0.34 | 0.35 | 51.4 |
| 4/17/2015 17:00:04 | 33.46 | 31.46 | 937 | 0.34 | 0.35 | 51.2 |
| 4/17/2015 17:00:05 | 33.79 | 31.79 | 931 | 0.35 | 0.35 | 50.9 |
| 4/17/2015 17:00:05 | 34.12 | 32.12 | 939 | 0.34 | 0.35 | 51.4 |
| 4/17/2015 17:00:06 | 34.45 | 32.45 | 939 | 0.34 | 0.35 | 51.4 |
| 4/17/2015 17:00:06 | 34.78 | 32.78 | 928 | 0.35 | 0.35 | 50.7 |
| 4/17/2015 17:00:07 | 35.11 | 33.11 | 928 | 0.35 | 0.35 | 50.7 |
| 4/17/2015 17:00:07 | 35.43 | 33.43 | 931 | 0.34 | 0.35 | 50.9 |
| 4/17/2015 17:00:08 | 35.76 | 33.76 | 931 | 0.34 | 0.35 | 50.9 |
| 4/17/2015 17:00:08 | 36.09 | 34.09 | 934 | 0.35 | 0.35 | 51.1 |
| 4/17/2015 17:00:08 | 36.42 | 34.42 | 931 | 0.35 | 0.35 | 50.9 |
| 4/17/2015 17:00:09 | 36.75 | 34.75 | 931 | 0.34 | 0.35 | 50.9 |
| 4/17/2015 17:00:09 | 37.07 | 35.07 | 931 | 0.34 | 0.35 | 50.9 |
| 4/17/2015 17:00:09 | 37.40 | 35.40 | 928 | 0.35 | 0.35 | 50.8 |
| 4/17/2015 17:00:10 | 37.73 | 35.73 | 937 | 0.34 | 0.35 | 51.2 |
| 4/17/2015 17:00:10 | 38.06 | 36.06 | 928 | 0.34 | 0.35 | 50.7 |
| 4/17/2015 17:00:11 | 38.39 | 36.39 | 928 | 0.34 | 0.35 | 50.7 |
| 4/17/2015 17:00:11 | 38.71 | 36.71 | 925 | 0.34 | 0.35 | 50.6 |
| 4/17/2015 17:00:11 | 39.04 | 37.04 | 928 | 0.35 | 0.35 | 50.7 |
| 4/17/2015 17:00:12 | 39.37 | 37.37 | 928 | 0.35 | 0.35 | 50.7 |
| 4/17/2015 17:00:12 | 39.70 | 37.70 | 913 | 0.35 | 0.35 | 49.9 |
| 4/17/2015 17:00:12 | 40.03 | 38.03 | 913 | 0.34 | 0.35 | 49.9 |
| 4/17/2015 17:00:13 | 40.35 | 38.35 | 913 | 0.36 | 0.35 | 49.9 |
| 4/17/2015 17:00:13 | 40.68 | 38.68 | 913 | 0.36 | 0.35 | 49.9 |
| 4/17/2015 17:00:13 | 41.01 | 39.01 | 913 | 0.35 | 0.35 | 49.9 |
| 4/17/2015 17:00:14 | 41.34 | 39.34 | 913 | 0.38 | 0.35 | 49.9 |
| 4/17/2015 17:00:14 | 41.67 | 39.67 | 916 | 0.32 | 0.43 | 50.1 |
| 4/17/2015 17:00:28 | 41.99 | 39.99 | 92 | 3.34 | 0.42 | 5.0 |
| 4/17/2015 17:00:48 | 42.32 | 40.32 | 44 | 3.91 | 0.41 | 2.4 |
| 4/17/2015 17:00:57 | 42.65 | 40.65 | 90 | 3.33 | 0.43 | 4.9 |
| 4/17/2015 17:01:01 | 42.98 | 40.98 | 78 | 3.41 | 0.41 | 4.3 |
| 4/17/2015 17:01:09 | 43.31 | 41.31 | 43 | 2.89 | 0.41 | 2.4 |
| 4/17/2015 17:01:18 | 43.64 | 41.64 | 44 | 3.22 | 0.43 | 2.4 |
| 4/17/2015 17:01:25 | 43.96 | 41.96 | 55 | 3.58 | 0.42 | 3.0 |
| 4/17/2015 17:01:31 | 44.29 | 42.29 | 69 | 3.40 | 0.41 | 3.8 |
| 4/17/2015 17:01:37 | 44.62 | 42.62 | 49 | 3.55 | 0.43 | 2.7 |
| 4/17/2015 17:01:39 | 44.73 | 42.73 | 64 | 3.36 | 0.42 | 3.5 |

## C9 - Summary

**Pattern Number:**
AreaC_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/17/2015 16:57:24

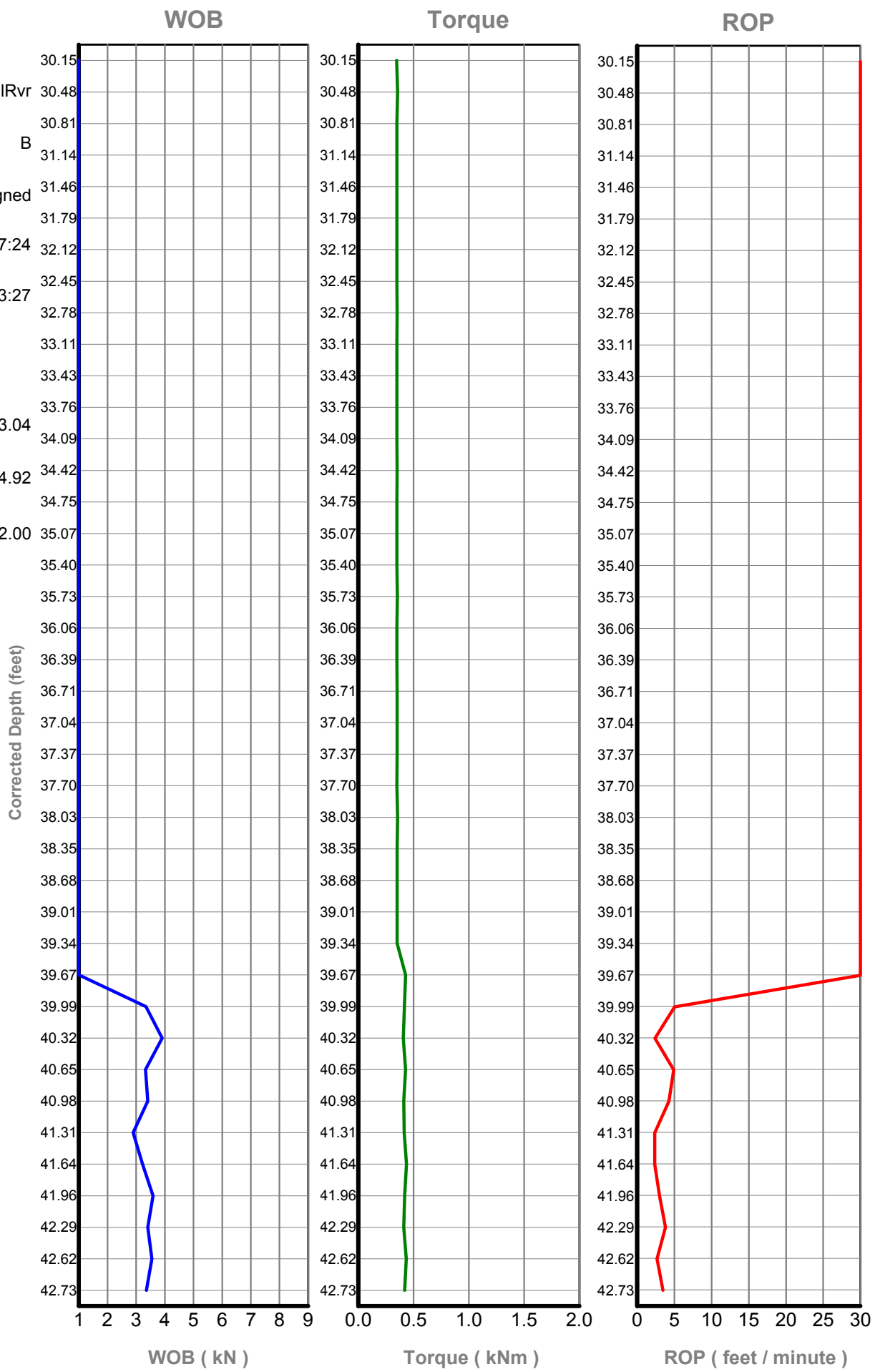
**End Date:**
4/17/2015 17:03:27

**Operator Note:**
'2 2.3 b Rock @ 43"

**Northing:**
371,373.04

**Easting:**
258,374.92

**Tide (feet):**
2.00



## Hole: CCB-348-1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:42:48 | 30.84 | 30.24 | 800 | 2.10 | 0.79 | 43.7 |
| 4/14/2015 15:42:49 | 31.17 | 30.57 | 789 | 2.08 | 0.79 | 43.2 |
| 4/14/2015 15:42:49 | 31.50 | 30.90 | 792 | 2.15 | 0.79 | 43.3 |
| 4/14/2015 15:42:50 | 31.82 | 31.22 | 792 | 2.15 | 0.79 | 43.3 |
| 4/14/2015 15:42:50 | 32.15 | 31.55 | 789 | 2.09 | 0.78 | 43.2 |
| 4/14/2015 15:42:50 | 32.48 | 31.88 | 789 | 2.09 | 0.78 | 43.2 |
| 4/14/2015 15:42:51 | 32.81 | 32.21 | 789 | 2.08 | 0.78 | 43.2 |
| 4/14/2015 15:42:51 | 33.14 | 32.54 | 789 | 2.08 | 0.78 | 43.2 |
| 4/14/2015 15:42:52 | 33.46 | 32.86 | 782 | 2.08 | 0.78 | 42.8 |
| 4/14/2015 15:42:52 | 33.79 | 33.19 | 789 | 2.08 | 0.77 | 43.2 |
| 4/14/2015 15:42:53 | 34.12 | 33.52 | 786 | 2.10 | 0.78 | 43.0 |
| 4/14/2015 15:42:53 | 34.45 | 33.85 | 786 | 2.10 | 0.78 | 43.0 |
| 4/14/2015 15:42:53 | 34.78 | 34.18 | 783 | 2.10 | 0.78 | 42.8 |
| 4/14/2015 15:42:54 | 35.11 | 34.51 | 783 | 2.09 | 0.78 | 42.8 |
| 4/14/2015 15:42:54 | 35.43 | 34.83 | 794 | 2.09 | 0.77 | 43.4 |
| 4/14/2015 15:42:55 | 35.76 | 35.16 | 784 | 2.09 | 0.77 | 42.8 |
| 4/14/2015 15:42:55 | 36.09 | 35.49 | 784 | 2.08 | 0.77 | 42.8 |
| 4/14/2015 15:42:56 | 36.42 | 35.82 | 784 | 2.10 | 0.77 | 42.8 |
| 4/14/2015 15:42:57 | 36.75 | 36.15 | 786 | 2.10 | 0.77 | 43.0 |
| 4/14/2015 15:42:57 | 37.07 | 36.47 | 786 | 2.10 | 0.77 | 43.0 |
| 4/14/2015 15:42:57 | 37.40 | 36.80 | 783 | 2.09 | 0.77 | 42.8 |
| 4/14/2015 15:42:58 | 37.73 | 37.13 | 786 | 2.08 | 0.77 | 43.0 |
| 4/14/2015 15:42:58 | 38.06 | 37.46 | 789 | 2.10 | 0.76 | 43.2 |
| 4/14/2015 15:42:59 | 38.39 | 37.79 | 792 | 2.10 | 0.77 | 43.3 |
| 4/14/2015 15:42:59 | 38.71 | 38.11 | 789 | 2.08 | 0.76 | 43.2 |
| 4/14/2015 15:43:00 | 39.04 | 38.44 | 786 | 2.09 | 0.76 | 43.0 |
| 4/14/2015 15:43:00 | 39.37 | 38.77 | 786 | 2.09 | 0.76 | 43.0 |
| 4/14/2015 15:43:00 | 39.70 | 39.10 | 786 | 2.10 | 0.76 | 43.0 |
| 4/14/2015 15:43:01 | 40.03 | 39.43 | 786 | 2.09 | 0.76 | 43.0 |
| 4/14/2015 15:43:01 | 40.35 | 39.75 | 783 | 2.09 | 0.76 | 42.8 |
| 4/14/2015 15:43:02 | 40.68 | 40.08 | 783 | 2.10 | 0.76 | 42.8 |
| 4/14/2015 15:43:02 | 41.01 | 40.41 | 779 | 2.09 | 0.76 | 42.6 |
| 4/14/2015 15:43:08 | 41.34 | 40.74 | 3 | 2.07 | 0.76 | 0.2 |
| 4/14/2015 15:43:08 | 41.67 | 41.07 | 112 | 2.10 | 0.76 | 6.1 |
| 4/14/2015 15:43:09 | 41.99 | 41.39 | 269 | 2.01 | 0.75 | 14.7 |
| 4/14/2015 15:43:09 | 42.32 | 41.72 | 429 | 2.10 | 0.74 | 23.4 |
| 4/14/2015 15:43:10 | 42.65 | 42.05 | 588 | 2.09 | 0.77 | 32.1 |
| 4/14/2015 15:43:10 | 42.98 | 42.38 | 588 | 2.09 | 0.77 | 32.1 |
| 4/14/2015 15:43:10 | 43.31 | 42.71 | 745 | 2.09 | 0.76 | 40.7 |
| 4/14/2015 15:43:22 | 43.64 | 43.04 | 100 | 2.10 | 0.74 | 5.5 |
| 4/14/2015 15:43:22 | 43.96 | 43.36 | 100 | 2.10 | 0.74 | 5.5 |
| 4/14/2015 15:43:22 | 44.29 | 43.69 | 237 | 2.10 | 0.75 | 13.0 |
| 4/14/2015 15:43:23 | 44.62 | 44.02 | 237 | 2.09 | 0.74 | 13.0 |
| 4/14/2015 15:43:23 | 44.95 | 44.35 | 411 | 2.09 | 0.74 | 22.5 |
| 4/14/2015 15:43:24 | 45.28 | 44.68 | 558 | 2.10 | 0.75 | 30.5 |
| 4/14/2015 15:43:24 | 45.60 | 45.00 | 558 | 2.10 | 0.83 | 30.5 |
| 4/14/2015 15:43:25 | 45.93 | 45.33 | 717 | 2.25 | 1.37 | 39.2 |
| 4/14/2015 15:43:28 | 46.26 | 45.66 | 268 | 2.31 | 1.35 | 14.7 |
| 4/14/2015 15:43:40 | 46.59 | 45.99 | 27 | 2.31 | 1.29 | 1.5 |
| 4/14/2015 15:43:46 | 46.92 | 46.32 | 45 | 2.31 | 1.27 | 2.5 |
| 4/14/2015 15:43:53 | 47.24 | 46.64 | 60 | 2.28 | 1.24 | 3.3 |
| 4/14/2015 15:43:56 | 47.57 | 46.97 | 109 | 2.35 | 1.22 | 5.9 |
| 4/14/2015 15:43:59 | 47.90 | 47.30 | 149 | 2.35 | 1.24 | 8.2 |
| 4/14/2015 15:44:02 | 48.23 | 47.63 | 107 | 2.36 | 1.28 | 5.9 |
| 4/14/2015 15:44:12 | 48.45 | 47.85 | 17 | 2.31 | 1.30 | 1.0 |

## CCB-348-1 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:41:15

**End Date:**
4/14/2015 15:47:10

**Operator Note:**
'0.6 .8 c Auto Complete'

**Northing:**
371,147.67

**Easting:**
258,158.91

**Tide (feet):**
0.60



## Hole: CCB-348-10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 16:57:23 | 30.18 | 30.18 | 762 | 0.40 | 0.39 | 41.7 |
| 4/14/2015 16:57:23 | 30.51 | 30.51 | 760 | 1.41 | 0.39 | 41.6 |
| 4/14/2015 16:57:24 | 30.84 | 30.84 | 760 | 1.41 | 0.39 | 41.6 |
| 4/14/2015 16:57:24 | 31.17 | 31.17 | 757 | 1.44 | 0.40 | 41.4 |
| 4/14/2015 16:57:24 | 31.50 | 31.50 | 756 | 1.43 | 0.39 | 41.3 |
| 4/14/2015 16:57:25 | 31.82 | 31.82 | 749 | 1.72 | 0.38 | 40.9 |
| 4/14/2015 16:57:26 | 32.15 | 32.15 | 747 | 2.50 | 0.39 | 40.9 |
| 4/14/2015 16:57:26 | 32.48 | 32.48 | 760 | 2.50 | 0.39 | 41.6 |
| 4/14/2015 16:57:27 | 32.81 | 32.81 | 766 | 2.43 | 0.39 | 41.9 |
| 4/14/2015 16:57:27 | 33.14 | 33.14 | 766 | 2.40 | 0.39 | 41.9 |
| 4/14/2015 16:57:28 | 33.46 | 33.46 | 760 | 2.33 | 0.39 | 41.6 |
| 4/14/2015 16:57:28 | 33.79 | 33.79 | 757 | 2.31 | 0.39 | 41.4 |
| 4/14/2015 16:57:29 | 34.12 | 34.12 | 746 | 2.33 | 0.39 | 40.8 |
| 4/14/2015 16:57:29 | 34.45 | 34.45 | 746 | 2.33 | 0.39 | 40.8 |
| 4/14/2015 16:57:29 | 34.78 | 34.78 | 749 | 2.33 | 0.39 | 40.9 |
| 4/14/2015 16:57:30 | 35.11 | 35.11 | 739 | 2.32 | 0.40 | 40.4 |
| 4/14/2015 16:57:30 | 35.43 | 35.43 | 739 | 2.31 | 0.39 | 40.4 |
| 4/14/2015 16:57:31 | 35.76 | 35.76 | 744 | 2.31 | 0.39 | 40.7 |
| 4/14/2015 16:57:31 | 36.09 | 36.09 | 746 | 2.29 | 0.39 | 40.8 |
| 4/14/2015 16:57:32 | 36.42 | 36.42 | 741 | 2.42 | 0.39 | 40.5 |
| 4/14/2015 16:57:32 | 36.75 | 36.75 | 738 | 2.49 | 0.39 | 40.4 |
| 4/14/2015 16:57:33 | 37.07 | 37.07 | 748 | 2.50 | 0.40 | 40.9 |
| 4/14/2015 16:57:33 | 37.40 | 37.40 | 740 | 2.50 | 0.39 | 40.5 |
| 4/14/2015 16:57:34 | 37.73 | 37.73 | 730 | 2.50 | 0.39 | 39.9 |
| 4/14/2015 16:57:34 | 38.06 | 38.06 | 740 | 2.50 | 0.39 | 40.5 |
| 4/14/2015 16:57:35 | 38.39 | 38.39 | 743 | 2.52 | 0.39 | 40.6 |
| 4/14/2015 16:57:36 | 38.71 | 38.71 | 743 | 2.52 | 0.39 | 40.6 |
| 4/14/2015 16:57:36 | 39.04 | 39.04 | 749 | 2.50 | 0.39 | 41.0 |
| 4/14/2015 16:57:36 | 39.37 | 39.37 | 757 | 2.52 | 0.39 | 41.4 |
| 4/14/2015 16:57:37 | 39.70 | 39.70 | 760 | 2.48 | 0.38 | 41.6 |
| 4/14/2015 16:57:37 | 40.03 | 40.03 | 757 | 2.52 | 0.39 | 41.4 |
| 4/14/2015 16:57:38 | 40.35 | 40.35 | 757 | 2.50 | 0.39 | 41.4 |
| 4/14/2015 16:57:38 | 40.68 | 40.68 | 753 | 2.52 | 0.39 | 41.2 |
| 4/14/2015 16:57:39 | 41.01 | 41.01 | 754 | 2.50 | 0.40 | 41.3 |
| 4/14/2015 16:57:39 | 41.34 | 41.34 | 754 | 2.52 | 0.39 | 41.3 |
| 4/14/2015 16:57:40 | 41.67 | 41.67 | 749 | 2.52 | 0.39 | 40.9 |
| 4/14/2015 16:57:40 | 41.99 | 41.99 | 746 | 2.51 | 0.39 | 40.8 |
| 4/14/2015 16:57:41 | 42.32 | 42.32 | 746 | 2.51 | 0.39 | 40.8 |
| 4/14/2015 16:57:41 | 42.65 | 42.65 | 756 | 2.49 | 0.40 | 41.4 |
| 4/14/2015 16:57:41 | 42.98 | 42.98 | 737 | 2.50 | 0.39 | 40.3 |
| 4/14/2015 16:57:42 | 43.31 | 43.31 | 737 | 2.51 | 0.39 | 40.3 |
| 4/14/2015 16:57:42 | 43.64 | 43.64 | 740 | 2.51 | 0.39 | 40.5 |
| 4/14/2015 16:57:43 | 43.96 | 43.96 | 752 | 2.50 | 0.38 | 41.1 |
| 4/14/2015 16:57:43 | 44.29 | 44.29 | 756 | 2.59 | 0.42 | 41.3 |
| 4/14/2015 16:57:46 | 44.62 | 44.62 | 466 | 5.27 | 0.47 | 25.5 |
| 4/14/2015 16:57:51 | 44.95 | 44.95 | 87 | 3.69 | 0.47 | 4.7 |
| 4/14/2015 16:58:00 | 45.28 | 45.28 | 41 | 3.63 | 0.46 | 2.2 |
| 4/14/2015 16:58:06 | 45.60 | 45.60 | 70 | 3.90 | 0.45 | 3.8 |
| 4/14/2015 16:58:10 | 45.93 | 45.93 | 80 | 3.74 | 0.47 | 4.4 |
| 4/14/2015 16:58:14 | 46.26 | 46.26 | 94 | 3.83 | 0.44 | 5.2 |
| 4/14/2015 16:58:18 | 46.59 | 46.59 | 95 | 3.64 | 0.44 | 5.2 |
| 4/14/2015 16:58:45 | 46.92 | 46.92 | 0 | 3.06 | 0.41 | 0.0 |
| 4/14/2015 16:59:04 | 47.11 | 47.11 | 0 | 2.46 | 0.34 | 0.0 |

## CCB-348-10 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/14/2015 16:48:25

**End Date:**
4/14/2015 17:03:58

**Operator Note:**
'0 .1 c Auto Complete'

**Northing:**
371,153.05

**Easting:**
258,177.21

**Tide (feet):**
0.00



## Hole: CCB-348-11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 17:14:18 | 30.51 | 30.21 | 781 | 2.23 | 0.38 | 42.7 |
| 4/14/2015 17:14:19 | 30.84 | 30.54 | 782 | 2.22 | 0.39 | 42.8 |
| 4/14/2015 17:14:19 | 31.17 | 30.87 | 776 | 2.22 | 0.38 | 42.5 |
| 4/14/2015 17:14:20 | 31.50 | 31.20 | 766 | 2.22 | 0.38 | 41.9 |
| 4/14/2015 17:14:20 | 31.82 | 31.52 | 766 | 2.23 | 0.38 | 41.9 |
| 4/14/2015 17:14:21 | 32.15 | 31.85 | 775 | 2.23 | 0.39 | 42.4 |
| 4/14/2015 17:14:21 | 32.48 | 32.18 | 775 | 2.23 | 0.39 | 42.4 |
| 4/14/2015 17:14:22 | 32.81 | 32.51 | 775 | 2.21 | 0.38 | 42.4 |
| 4/14/2015 17:14:22 | 33.14 | 32.84 | 778 | 2.23 | 0.39 | 42.5 |
| 4/14/2015 17:14:23 | 33.46 | 33.16 | 775 | 2.21 | 0.38 | 42.4 |
| 4/14/2015 17:14:23 | 33.79 | 33.49 | 772 | 2.20 | 0.39 | 42.2 |
| 4/14/2015 17:14:24 | 34.12 | 33.82 | 763 | 2.20 | 0.39 | 41.7 |
| 4/14/2015 17:14:24 | 34.45 | 34.15 | 763 | 2.19 | 0.39 | 41.7 |
| 4/14/2015 17:14:25 | 34.78 | 34.48 | 760 | 2.18 | 0.39 | 41.6 |
| 4/14/2015 17:14:25 | 35.11 | 34.81 | 760 | 2.20 | 0.39 | 41.6 |
| 4/14/2015 17:14:26 | 35.43 | 35.13 | 746 | 2.20 | 0.39 | 40.8 |
| 4/14/2015 17:14:26 | 35.76 | 35.46 | 728 | 2.19 | 0.38 | 39.8 |
| 4/14/2015 17:14:27 | 36.09 | 35.79 | 728 | 2.19 | 0.38 | 39.8 |
| 4/14/2015 17:14:27 | 36.42 | 36.12 | 728 | 2.19 | 0.39 | 39.8 |
| 4/14/2015 17:14:27 | 36.75 | 36.45 | 730 | 2.21 | 0.39 | 39.9 |
| 4/14/2015 17:14:28 | 37.07 | 36.77 | 719 | 2.20 | 0.39 | 39.3 |
| 4/14/2015 17:14:28 | 37.40 | 37.10 | 719 | 2.21 | 0.44 | 39.3 |
| 4/14/2015 17:14:29 | 37.73 | 37.43 | 724 | 2.20 | 0.38 | 39.6 |
| 4/14/2015 17:14:29 | 38.06 | 37.76 | 734 | 2.19 | 0.38 | 40.1 |
| 4/14/2015 17:14:30 | 38.39 | 38.09 | 744 | 2.19 | 0.39 | 40.7 |
| 4/14/2015 17:14:30 | 38.71 | 38.41 | 739 | 2.20 | 0.39 | 40.4 |
| 4/14/2015 17:14:31 | 39.04 | 38.74 | 759 | 2.19 | 0.39 | 41.5 |
| 4/14/2015 17:14:31 | 39.37 | 39.07 | 758 | 2.18 | 0.38 | 41.4 |
| 4/14/2015 17:14:32 | 39.70 | 39.40 | 755 | 2.17 | 0.38 | 41.3 |
| 4/14/2015 17:14:33 | 40.03 | 39.73 | 755 | 2.17 | 0.38 | 41.3 |
| 4/14/2015 17:14:33 | 40.35 | 40.05 | 765 | 2.17 | 0.39 | 41.8 |
| 4/14/2015 17:14:33 | 40.68 | 40.38 | 758 | 2.16 | 0.39 | 41.4 |
| 4/14/2015 17:14:34 | 41.01 | 40.71 | 750 | 2.16 | 0.39 | 41.0 |
| 4/14/2015 17:14:34 | 41.34 | 41.04 | 740 | 2.17 | 0.38 | 40.5 |
| 4/14/2015 17:14:35 | 41.67 | 41.37 | 739 | 2.16 | 0.39 | 40.4 |
| 4/14/2015 17:14:35 | 41.99 | 41.69 | 727 | 2.17 | 0.38 | 39.8 |
| 4/14/2015 17:14:36 | 42.32 | 42.02 | 736 | 2.17 | 0.39 | 40.2 |
| 4/14/2015 17:14:36 | 42.65 | 42.35 | 736 | 2.19 | 0.39 | 40.2 |
| 4/14/2015 17:14:37 | 42.98 | 42.68 | 746 | 2.17 | 0.39 | 40.8 |
| 4/14/2015 17:14:37 | 43.31 | 43.01 | 736 | 2.18 | 0.38 | 40.2 |
| 4/14/2015 17:14:38 | 43.64 | 43.34 | 750 | 2.19 | 0.38 | 41.0 |
| 4/14/2015 17:14:38 | 43.96 | 43.66 | 753 | 2.18 | 0.38 | 41.2 |
| 4/14/2015 17:14:39 | 44.29 | 43.99 | 753 | 2.18 | 0.38 | 41.2 |
| 4/14/2015 17:14:39 | 44.62 | 44.32 | 763 | 2.18 | 0.38 | 41.7 |
| 4/14/2015 17:14:39 | 44.95 | 44.65 | 762 | 2.20 | 0.39 | 41.7 |
| 4/14/2015 17:14:40 | 45.28 | 44.98 | 704 | 3.68 | 0.43 | 38.5 |
| 4/14/2015 17:14:42 | 45.60 | 45.30 | 362 | 5.71 | 0.45 | 19.8 |
| 4/14/2015 17:14:51 | 45.93 | 45.63 | 58 | 4.03 | 0.44 | 3.2 |
| 4/14/2015 17:14:56 | 46.26 | 45.96 | 82 | 3.02 | 0.44 | 4.5 |
| 4/14/2015 17:15:01 | 46.59 | 46.29 | 63 | 2.95 | 0.43 | 3.5 |
| 4/14/2015 17:15:06 | 46.92 | 46.62 | 64 | 2.98 | 0.43 | 3.5 |
| 4/14/2015 17:15:14 | 47.24 | 46.94 | 52 | 2.99 | 0.44 | 2.8 |
| 4/14/2015 17:15:17 | 47.57 | 47.27 | 98 | 3.16 | 0.44 | 5.3 |
| 4/14/2015 17:15:20 | 47.90 | 47.60 | 116 | 3.35 | 0.42 | 6.4 |
| 4/14/2015 17:15:24 | 48.23 | 47.93 | 110 | 3.41 | 0.43 | 6.0 |
| 4/14/2015 17:15:31 | 48.56 | 48.26 | 37 | 3.09 | 0.43 | 2.0 |

## CCB-348-11 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/14/2015 17:12:04

**End Date:**
4/14/2015 17:18:45

**Operator Note:**
'0.3 -.5 c 1w'

**Northing:**
371,150.38

**Easting:**
258,178.46

**Tide (feet):**
0.30



## Hole: CCB-348-12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 14:32:27 | 31.82 | 30.12 | 843 | 2.10 | 0.28 | 46.1 |
| 4/14/2015 14:32:27 | 32.15 | 30.45 | 843 | 2.10 | 0.28 | 46.1 |
| 4/14/2015 14:32:27 | 32.48 | 30.78 | 848 | 2.12 | 0.28 | 46.4 |
| 4/14/2015 14:32:28 | 32.81 | 31.11 | 855 | 2.11 | 0.28 | 46.7 |
| 4/14/2015 14:32:28 | 33.14 | 31.44 | 863 | 2.11 | 0.28 | 47.2 |
| 4/14/2015 14:32:29 | 33.46 | 31.76 | 850 | 2.11 | 0.28 | 46.5 |
| 4/14/2015 14:32:30 | 33.79 | 32.09 | 850 | 2.11 | 0.28 | 46.5 |
| 4/14/2015 14:32:30 | 34.12 | 32.42 | 850 | 2.11 | 0.28 | 46.5 |
| 4/14/2015 14:32:30 | 34.45 | 32.75 | 842 | 2.10 | 0.28 | 46.0 |
| 4/14/2015 14:32:31 | 34.78 | 33.08 | 853 | 2.10 | 0.28 | 46.6 |
| 4/14/2015 14:32:31 | 35.11 | 33.41 | 852 | 2.10 | 0.28 | 46.6 |
| 4/14/2015 14:32:32 | 35.43 | 33.73 | 844 | 2.10 | 0.28 | 46.2 |
| 4/14/2015 14:32:32 | 35.76 | 34.06 | 844 | 2.10 | 0.28 | 46.2 |
| 4/14/2015 14:32:32 | 36.09 | 34.39 | 844 | 2.10 | 0.28 | 46.2 |
| 4/14/2015 14:32:33 | 36.42 | 34.72 | 847 | 2.12 | 0.28 | 46.3 |
| 4/14/2015 14:32:33 | 36.75 | 35.05 | 844 | 2.12 | 0.28 | 46.2 |
| 4/14/2015 14:32:34 | 37.07 | 35.37 | 847 | 2.25 | 0.28 | 46.3 |
| 4/14/2015 14:32:34 | 37.40 | 35.70 | 847 | 2.25 | 0.28 | 46.3 |
| 4/14/2015 14:32:34 | 37.73 | 36.03 | 853 | 2.12 | 0.28 | 46.6 |
| 4/14/2015 14:32:35 | 38.06 | 36.36 | 853 | 2.11 | 0.28 | 46.6 |
| 4/14/2015 14:32:35 | 38.39 | 36.69 | 858 | 2.12 | 0.28 | 46.9 |
| 4/14/2015 14:32:36 | 38.71 | 37.01 | 850 | 2.10 | 0.28 | 46.5 |
| 4/14/2015 14:32:36 | 39.04 | 37.34 | 850 | 2.10 | 0.28 | 46.5 |
| 4/14/2015 14:32:36 | 39.37 | 37.67 | 845 | 2.14 | 0.28 | 46.2 |
| 4/14/2015 14:32:37 | 39.70 | 38.00 | 830 | 2.10 | 0.28 | 45.4 |
| 4/14/2015 14:32:37 | 40.03 | 38.33 | 830 | 2.12 | 0.28 | 45.4 |
| 4/14/2015 14:32:38 | 40.35 | 38.65 | 843 | 2.12 | 0.28 | 46.1 |
| 4/14/2015 14:32:38 | 40.68 | 38.98 | 843 | 2.12 | 0.28 | 46.1 |
| 4/14/2015 14:32:38 | 41.01 | 39.31 | 838 | 2.10 | 0.28 | 45.8 |
| 4/14/2015 14:32:39 | 41.34 | 39.64 | 841 | 2.10 | 0.28 | 46.0 |
| 4/14/2015 14:32:39 | 41.67 | 39.97 | 846 | 2.10 | 0.28 | 46.2 |
| 4/14/2015 14:32:40 | 41.99 | 40.29 | 858 | 2.10 | 0.28 | 46.9 |
| 4/14/2015 14:32:41 | 42.32 | 40.62 | 858 | 2.10 | 0.28 | 46.9 |
| 4/14/2015 14:32:41 | 42.65 | 40.95 | 842 | 2.11 | 0.28 | 46.1 |
| 4/14/2015 14:32:41 | 42.98 | 41.28 | 847 | 2.11 | 0.28 | 46.3 |
| 4/14/2015 14:32:42 | 43.31 | 41.61 | 844 | 2.12 | 0.28 | 46.2 |
| 4/14/2015 14:32:42 | 43.64 | 41.94 | 841 | 2.10 | 0.28 | 46.0 |
| 4/14/2015 14:32:43 | 43.96 | 42.26 | 841 | 2.12 | 0.28 | 46.0 |
| 4/14/2015 14:32:43 | 44.29 | 42.59 | 841 | 2.12 | 0.28 | 46.0 |
| 4/14/2015 14:32:43 | 44.62 | 42.92 | 847 | 2.12 | 0.28 | 46.3 |
| 4/14/2015 14:32:44 | 44.95 | 43.25 | 841 | 2.12 | 0.28 | 46.0 |
| 4/14/2015 14:32:44 | 45.28 | 43.58 | 838 | 2.10 | 0.28 | 45.8 |
| 4/14/2015 14:32:45 | 45.60 | 43.90 | 831 | 2.25 | 0.26 | 45.5 |
| 4/14/2015 14:32:54 | 45.93 | 44.23 | 3 | 2.29 | 1.06 | 0.2 |
| 4/14/2015 14:32:55 | 46.26 | 44.56 | 76 | 2.36 | 1.30 | 4.1 |
| 4/14/2015 14:32:57 | 46.59 | 44.89 | 204 | 2.36 | 1.30 | 11.1 |
| 4/14/2015 14:33:01 | 46.92 | 45.22 | 130 | 2.38 | 1.20 | 7.1 |
| 4/14/2015 14:33:04 | 47.24 | 45.54 | 101 | 2.40 | 1.30 | 5.5 |
| 4/14/2015 14:33:08 | 47.57 | 45.87 | 85 | 2.42 | 1.36 | 4.6 |
| 4/14/2015 14:33:12 | 47.90 | 46.20 | 108 | 2.42 | 1.23 | 5.9 |
| 4/14/2015 14:33:15 | 48.23 | 46.53 | 103 | 2.41 | 1.31 | 5.6 |
| 4/14/2015 14:33:19 | 48.56 | 46.86 | 82 | 2.40 | 1.31 | 4.5 |
| 4/14/2015 14:33:25 | 48.88 | 47.18 | 66 | 2.40 | 1.27 | 3.6 |
| 4/14/2015 14:33:30 | 49.21 | 47.51 | 58 | 2.39 | 1.31 | 3.2 |
| 4/14/2015 14:33:37 | 49.54 | 47.84 | 55 | 2.38 | 1.24 | 3.0 |
| 4/14/2015 14:33:39 | 49.65 | 47.95 | 54 | 2.36 | 1.43 | 2.9 |

## CCB-348-12 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 14:29:56

**End Date:**
4/14/2015 14:35:13

**Operator Note:**
'1.7 Auto Complete'

**Northing:**
371,156.60

**Easting:**
258,181.57

**Tide (feet):**
1.70



## Hole: CCB-348-13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 18:00:13 | 31.50 | 30.20 | 839 | 2.10 | 0.81 | 45.9 |
| 4/14/2015 18:00:13 | 31.82 | 30.52 | 836 | 2.10 | 0.81 | 45.7 |
| 4/14/2015 18:00:14 | 32.15 | 30.85 | 818 | 2.10 | 0.81 | 44.7 |
| 4/14/2015 18:00:14 | 32.48 | 31.18 | 818 | 2.10 | 0.81 | 44.7 |
| 4/14/2015 18:00:14 | 32.81 | 31.51 | 815 | 2.10 | 0.81 | 44.6 |
| 4/14/2015 18:00:15 | 33.14 | 31.84 | 810 | 2.10 | 0.80 | 44.3 |
| 4/14/2015 18:00:15 | 33.46 | 32.16 | 818 | 2.10 | 0.80 | 44.7 |
| 4/14/2015 18:00:16 | 33.79 | 32.49 | 815 | 2.09 | 0.80 | 44.6 |
| 4/14/2015 18:00:16 | 34.12 | 32.82 | 815 | 2.10 | 0.80 | 44.6 |
| 4/14/2015 18:00:17 | 34.45 | 33.15 | 809 | 2.08 | 0.80 | 44.3 |
| 4/14/2015 18:00:17 | 34.78 | 33.48 | 809 | 2.08 | 0.80 | 44.3 |
| 4/14/2015 18:00:17 | 35.11 | 33.81 | 817 | 2.10 | 0.80 | 44.7 |
| 4/14/2015 18:00:18 | 35.43 | 34.13 | 810 | 2.10 | 0.80 | 44.3 |
| 4/14/2015 18:00:18 | 35.76 | 34.46 | 810 | 2.10 | 0.79 | 44.3 |
| 4/14/2015 18:00:19 | 36.09 | 34.79 | 807 | 2.10 | 0.79 | 44.1 |
| 4/14/2015 18:00:19 | 36.42 | 35.12 | 809 | 2.09 | 0.79 | 44.3 |
| 4/14/2015 18:00:20 | 36.75 | 35.45 | 809 | 2.09 | 0.79 | 44.3 |
| 4/14/2015 18:00:20 | 37.07 | 35.77 | 804 | 2.10 | 0.79 | 43.9 |
| 4/14/2015 18:00:20 | 37.40 | 36.10 | 789 | 2.10 | 0.78 | 43.2 |
| 4/14/2015 18:00:21 | 37.73 | 36.43 | 789 | 2.10 | 0.78 | 43.2 |
| 4/14/2015 18:00:21 | 38.06 | 36.76 | 802 | 2.08 | 0.78 | 43.9 |
| 4/14/2015 18:00:22 | 38.39 | 37.09 | 800 | 2.10 | 0.78 | 43.7 |
| 4/14/2015 18:00:22 | 38.71 | 37.41 | 805 | 2.10 | 0.78 | 44.0 |
| 4/14/2015 18:00:23 | 39.04 | 37.74 | 805 | 2.10 | 0.78 | 44.0 |
| 4/14/2015 18:00:23 | 39.37 | 38.07 | 803 | 2.07 | 0.78 | 43.9 |
| 4/14/2015 18:00:24 | 39.70 | 38.40 | 820 | 2.10 | 0.77 | 44.8 |
| 4/14/2015 18:00:24 | 40.03 | 38.73 | 809 | 2.09 | 0.78 | 44.3 |
| 4/14/2015 18:00:25 | 40.35 | 39.05 | 805 | 1.95 | 0.77 | 44.0 |
| 4/14/2015 18:00:25 | 40.68 | 39.38 | 805 | 2.10 | 0.77 | 44.0 |
| 4/14/2015 18:00:26 | 41.01 | 39.71 | 805 | 2.10 | 0.77 | 44.0 |
| 4/14/2015 18:00:26 | 41.34 | 40.04 | 810 | 2.10 | 0.77 | 44.3 |
| 4/14/2015 18:00:26 | 41.67 | 40.37 | 807 | 2.09 | 0.77 | 44.1 |
| 4/14/2015 18:00:27 | 41.99 | 40.69 | 802 | 2.10 | 0.77 | 43.8 |
| 4/14/2015 18:00:27 | 42.32 | 41.02 | 807 | 2.10 | 0.77 | 44.1 |
| 4/14/2015 18:00:28 | 42.65 | 41.35 | 807 | 2.11 | 0.77 | 44.1 |
| 4/14/2015 18:00:28 | 42.98 | 41.68 | 807 | 2.10 | 0.77 | 44.1 |
| 4/14/2015 18:00:29 | 43.31 | 42.01 | 807 | 2.10 | 0.77 | 44.1 |
| 4/14/2015 18:00:29 | 43.64 | 42.34 | 804 | 2.10 | 0.77 | 43.9 |
| 4/14/2015 18:00:29 | 43.96 | 42.66 | 788 | 2.10 | 0.79 | 43.1 |
| 4/14/2015 18:00:30 | 44.29 | 42.99 | 788 | 1.84 | 0.79 | 43.1 |
| 4/14/2015 18:00:30 | 44.62 | 43.32 | 798 | 2.08 | 0.77 | 43.6 |
| 4/14/2015 18:00:31 | 44.95 | 43.65 | 795 | 2.10 | 0.77 | 43.5 |
| 4/14/2015 18:00:31 | 45.28 | 43.98 | 791 | 2.10 | 0.76 | 43.2 |
| 4/14/2015 18:00:32 | 45.60 | 44.30 | 791 | 2.10 | 0.76 | 43.2 |
| 4/14/2015 18:00:32 | 45.93 | 44.63 | 796 | 2.11 | 0.78 | 43.5 |
| 4/14/2015 18:00:32 | 46.26 | 44.96 | 816 | 2.10 | 0.78 | 44.6 |
| 4/14/2015 18:00:33 | 46.59 | 45.29 | 804 | 2.11 | 0.78 | 43.9 |
| 4/14/2015 18:00:34 | 46.92 | 45.62 | 799 | 2.10 | 0.78 | 43.7 |
| 4/14/2015 18:00:34 | 47.24 | 45.94 | 798 | 2.21 | 1.30 | 43.6 |
| 4/14/2015 18:00:49 | 47.57 | 46.27 | 0 | 2.14 | 1.32 | 0.0 |
| 4/14/2015 18:01:08 | 47.90 | 46.60 | 0 | 2.14 | 0.97 | 0.0 |
| 4/14/2015 18:02:52 | 48.23 | 46.93 | 105 | 2.33 | 1.25 | 5.7 |
| 4/14/2015 18:03:13 | 48.51 | 47.21 | 15 | 2.33 | 1.34 | 0.8 |

## CCB-348-13 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/14/2015 17:59:03

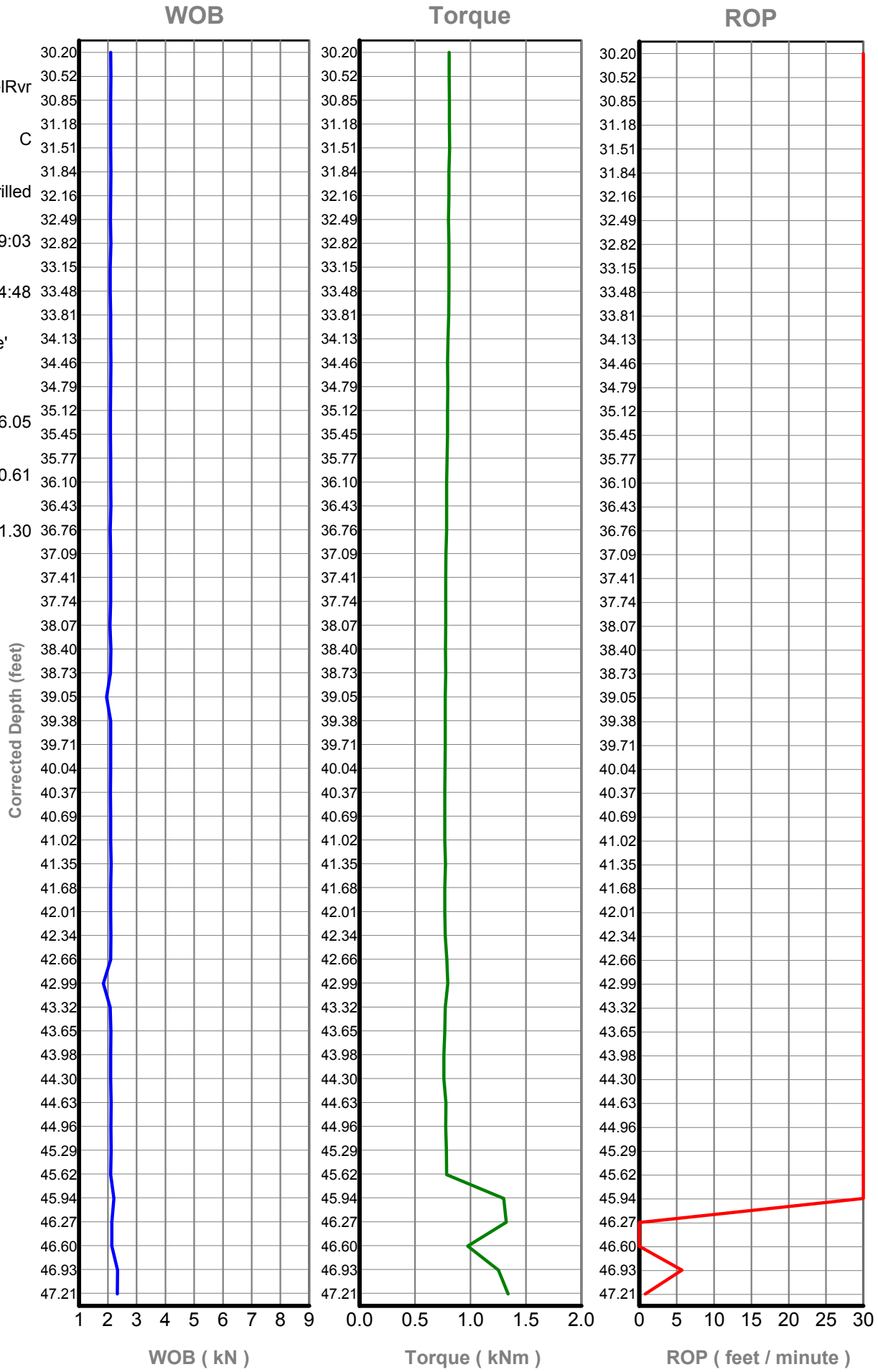
**End Date:**
4/14/2015 18:04:48

**Operator Note:**
'1.3 0.8 c Auto Complete'

**Northing:**
371,146.05

**Easting:**
258,180.61

**Tide (feet):**
1.30



## Hole: CCB-348-14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 18:06:57 | 31.82 | 30.32 | 846 | 2.09 | 0.76 | 46.3 |
| 4/14/2015 18:06:58 | 32.15 | 30.65 | 841 | 2.09 | 0.76 | 46.0 |
| 4/14/2015 18:06:59 | 32.48 | 30.98 | 841 | 2.10 | 0.76 | 46.0 |
| 4/14/2015 18:06:59 | 32.81 | 31.31 | 841 | 2.10 | 0.76 | 46.0 |
| 4/14/2015 18:06:59 | 33.14 | 31.64 | 835 | 2.08 | 0.75 | 45.7 |
| 4/14/2015 18:07:00 | 33.46 | 31.96 | 838 | 2.09 | 0.76 | 45.8 |
| 4/14/2015 18:07:00 | 33.79 | 32.29 | 833 | 2.09 | 0.76 | 45.6 |
| 4/14/2015 18:07:01 | 34.12 | 32.62 | 838 | 2.10 | 0.76 | 45.8 |
| 4/14/2015 18:07:01 | 34.45 | 32.95 | 828 | 2.09 | 0.76 | 45.3 |
| 4/14/2015 18:07:02 | 34.78 | 33.28 | 828 | 2.09 | 0.76 | 45.3 |
| 4/14/2015 18:07:02 | 35.11 | 33.61 | 836 | 2.10 | 0.76 | 45.7 |
| 4/14/2015 18:07:02 | 35.43 | 33.93 | 833 | 2.09 | 0.76 | 45.6 |
| 4/14/2015 18:07:03 | 35.76 | 34.26 | 833 | 2.09 | 0.76 | 45.6 |
| 4/14/2015 18:07:03 | 36.09 | 34.59 | 833 | 2.08 | 0.76 | 45.6 |
| 4/14/2015 18:07:04 | 36.42 | 34.92 | 833 | 2.08 | 0.76 | 45.6 |
| 4/14/2015 18:07:04 | 36.75 | 35.25 | 835 | 2.08 | 0.76 | 45.7 |
| 4/14/2015 18:07:04 | 37.07 | 35.57 | 822 | 2.08 | 0.76 | 44.9 |
| 4/14/2015 18:07:05 | 37.40 | 35.90 | 833 | 2.10 | 0.76 | 45.5 |
| 4/14/2015 18:07:05 | 37.73 | 36.23 | 830 | 2.10 | 0.76 | 45.4 |
| 4/14/2015 18:07:06 | 38.06 | 36.56 | 830 | 2.08 | 0.76 | 45.4 |
| 4/14/2015 18:07:06 | 38.39 | 36.89 | 830 | 2.08 | 0.76 | 45.4 |
| 4/14/2015 18:07:06 | 38.71 | 37.21 | 833 | 2.08 | 0.76 | 45.5 |
| 4/14/2015 18:07:07 | 39.04 | 37.54 | 838 | 2.09 | 0.76 | 45.8 |
| 4/14/2015 18:07:07 | 39.37 | 37.87 | 835 | 2.10 | 0.76 | 45.7 |
| 4/14/2015 18:07:08 | 39.70 | 38.20 | 835 | 2.10 | 0.75 | 45.7 |
| 4/14/2015 18:07:08 | 40.03 | 38.53 | 827 | 2.08 | 0.76 | 45.2 |
| 4/14/2015 18:07:09 | 40.35 | 38.85 | 827 | 2.08 | 0.76 | 45.2 |
| 4/14/2015 18:07:09 | 40.68 | 39.18 | 835 | 2.08 | 0.75 | 45.7 |
| 4/14/2015 18:07:10 | 41.01 | 39.51 | 833 | 2.09 | 0.75 | 45.5 |
| 4/14/2015 18:07:10 | 41.34 | 39.84 | 830 | 2.08 | 0.75 | 45.4 |
| 4/14/2015 18:07:11 | 41.67 | 40.17 | 833 | 2.10 | 0.75 | 45.5 |
| 4/14/2015 18:07:11 | 41.99 | 40.49 | 833 | 2.10 | 0.75 | 45.5 |
| 4/14/2015 18:07:11 | 42.32 | 40.82 | 835 | 2.09 | 0.75 | 45.7 |
| 4/14/2015 18:07:12 | 42.65 | 41.15 | 832 | 2.09 | 0.75 | 45.5 |
| 4/14/2015 18:07:12 | 42.98 | 41.48 | 830 | 2.10 | 0.75 | 45.4 |
| 4/14/2015 18:07:13 | 43.31 | 41.81 | 825 | 2.09 | 0.75 | 45.1 |
| 4/14/2015 18:07:13 | 43.64 | 42.14 | 827 | 2.10 | 0.75 | 45.2 |
| 4/14/2015 18:07:14 | 43.96 | 42.46 | 827 | 2.10 | 0.75 | 45.2 |
| 4/14/2015 18:07:14 | 44.29 | 42.79 | 824 | 2.10 | 0.75 | 45.1 |
| 4/14/2015 18:07:14 | 44.62 | 43.12 | 824 | 2.09 | 0.75 | 45.1 |
| 4/14/2015 18:07:15 | 44.95 | 43.45 | 827 | 2.10 | 0.74 | 45.2 |
| 4/14/2015 18:07:15 | 45.28 | 43.78 | 835 | 2.10 | 0.75 | 45.6 |
| 4/14/2015 18:07:16 | 45.60 | 44.10 | 833 | 2.06 | 0.75 | 45.5 |
| 4/14/2015 18:07:16 | 45.93 | 44.43 | 833 | 2.06 | 0.75 | 45.5 |
| 4/14/2015 18:07:16 | 46.26 | 44.76 | 838 | 2.10 | 0.75 | 45.8 |
| 4/14/2015 18:07:17 | 46.59 | 45.09 | 833 | 2.09 | 0.74 | 45.5 |
| 4/14/2015 18:07:17 | 46.92 | 45.42 | 831 | 2.09 | 0.74 | 45.4 |
| 4/14/2015 18:07:18 | 47.24 | 45.74 | 833 | 2.09 | 0.75 | 45.5 |
| 4/14/2015 18:07:18 | 47.57 | 46.07 | 833 | 2.09 | 0.75 | 45.5 |
| 4/14/2015 18:07:19 | 47.90 | 46.40 | 833 | 2.09 | 0.75 | 45.5 |
| 4/14/2015 18:07:43 | 48.23 | 46.73 | 15 | 2.34 | 1.19 | 0.8 |
| 4/14/2015 18:07:44 | 48.31 | 46.81 | 64 | 2.31 | 1.28 | 3.5 |

## CCB-348-14 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 18:05:41

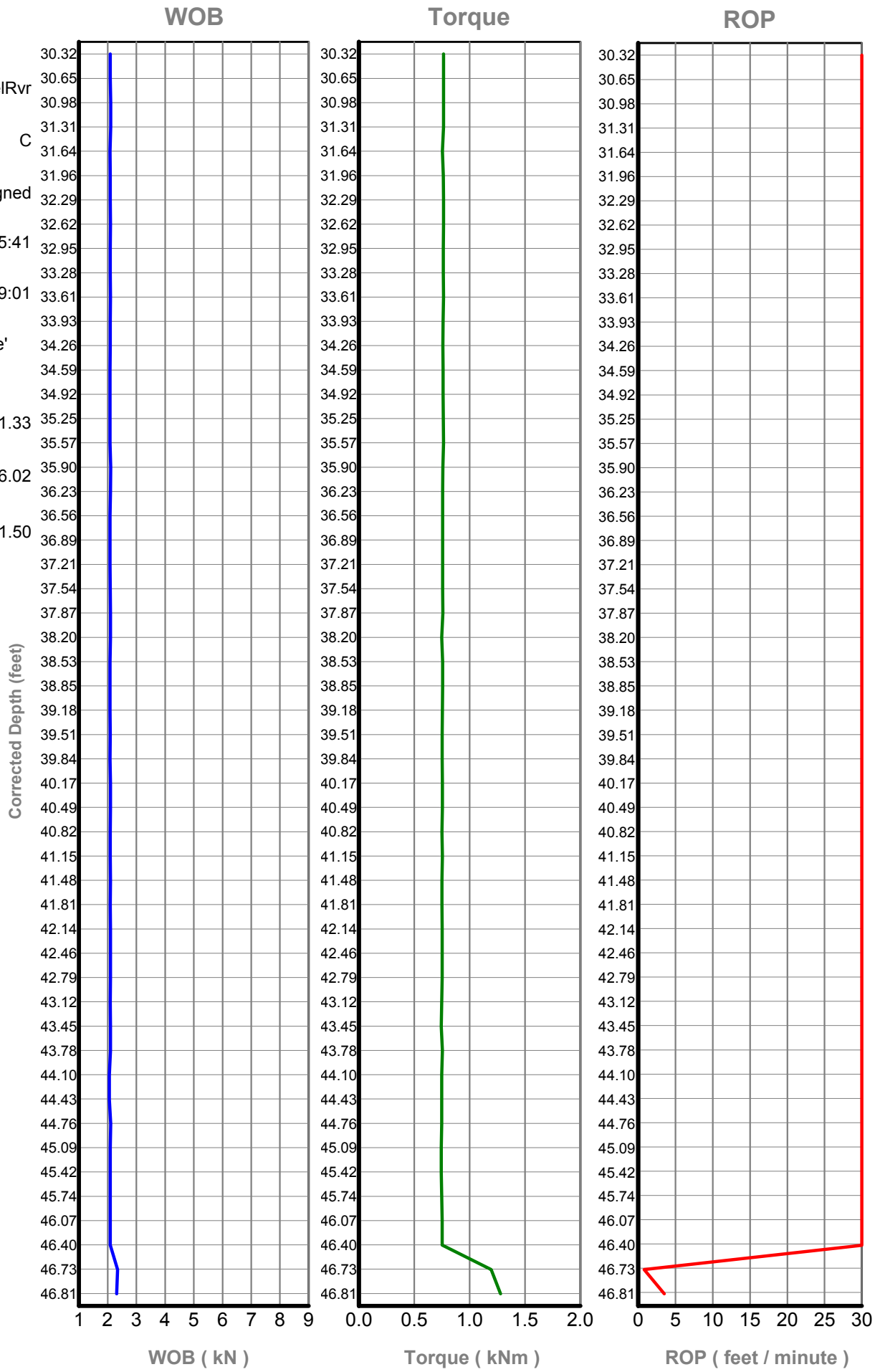
**End Date:**
4/14/2015 18:09:01

**Operator Note:**
'1.5 0.8 c Auto Complete'

**Northing:**
371,141.33

**Easting:**
258,186.02

**Tide (feet):**
1.50



## Hole: CCB-348-15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 14:26:12 | 31.82 | 30.02 | 819 | 2.10 | 0.28 | 44.8 |
| 4/14/2015 14:26:12 | 32.15 | 30.35 | 836 | 2.11 | 0.28 | 45.7 |
| 4/14/2015 14:26:13 | 32.48 | 30.68 | 832 | 2.12 | 0.28 | 45.5 |
| 4/14/2015 14:26:13 | 32.81 | 31.01 | 832 | 2.12 | 0.28 | 45.5 |
| 4/14/2015 14:26:14 | 33.14 | 31.34 | 841 | 2.12 | 0.28 | 46.0 |
| 4/14/2015 14:26:14 | 33.46 | 31.66 | 819 | 2.12 | 0.28 | 44.8 |
| 4/14/2015 14:26:15 | 33.79 | 31.99 | 819 | 2.12 | 0.28 | 44.8 |
| 4/14/2015 14:26:15 | 34.12 | 32.32 | 848 | 2.12 | 0.28 | 46.4 |
| 4/14/2015 14:26:16 | 34.45 | 32.65 | 848 | 2.12 | 0.28 | 46.4 |
| 4/14/2015 14:26:16 | 34.78 | 32.98 | 815 | 2.10 | 0.25 | 44.5 |
| 4/14/2015 14:26:16 | 35.11 | 33.31 | 815 | 2.12 | 0.28 | 44.5 |
| 4/14/2015 14:26:17 | 35.43 | 33.63 | 822 | 2.12 | 0.28 | 45.0 |
| 4/14/2015 14:26:17 | 35.76 | 33.96 | 817 | 2.12 | 0.28 | 44.7 |
| 4/14/2015 14:26:18 | 36.09 | 34.29 | 817 | 2.12 | 0.28 | 44.7 |
| 4/14/2015 14:26:18 | 36.42 | 34.62 | 827 | 2.12 | 0.28 | 45.2 |
| 4/14/2015 14:26:18 | 36.75 | 34.95 | 828 | 2.11 | 0.28 | 45.3 |
| 4/14/2015 14:26:19 | 37.07 | 35.27 | 834 | 2.12 | 0.28 | 45.6 |
| 4/14/2015 14:26:19 | 37.40 | 35.60 | 834 | 2.11 | 0.28 | 45.6 |
| 4/14/2015 14:26:20 | 37.73 | 35.93 | 838 | 2.14 | 0.28 | 45.8 |
| 4/14/2015 14:26:20 | 38.06 | 36.26 | 838 | 2.14 | 0.28 | 45.8 |
| 4/14/2015 14:26:20 | 38.39 | 36.59 | 842 | 2.11 | 0.28 | 46.0 |
| 4/14/2015 14:26:21 | 38.71 | 36.91 | 840 | 2.12 | 0.28 | 45.9 |
| 4/14/2015 14:26:21 | 39.04 | 37.24 | 840 | 2.12 | 0.28 | 45.9 |
| 4/14/2015 14:26:22 | 39.37 | 37.57 | 836 | 2.12 | 0.28 | 45.7 |
| 4/14/2015 14:26:22 | 39.70 | 37.90 | 836 | 2.12 | 0.28 | 45.7 |
| 4/14/2015 14:26:22 | 40.03 | 38.23 | 847 | 2.12 | 0.28 | 46.3 |
| 4/14/2015 14:26:23 | 40.35 | 38.55 | 824 | 2.12 | 0.28 | 45.1 |
| 4/14/2015 14:26:23 | 40.68 | 38.88 | 824 | 2.10 | 0.28 | 45.1 |
| 4/14/2015 14:26:24 | 41.01 | 39.21 | 824 | 2.11 | 0.28 | 45.1 |
| 4/14/2015 14:26:24 | 41.34 | 39.54 | 841 | 2.11 | 0.28 | 46.0 |
| 4/14/2015 14:26:25 | 41.67 | 39.87 | 841 | 2.11 | 0.28 | 46.0 |
| 4/14/2015 14:26:25 | 41.99 | 40.19 | 835 | 2.12 | 0.27 | 45.7 |
| 4/14/2015 14:26:26 | 42.32 | 40.52 | 840 | 2.11 | 0.28 | 45.9 |
| 4/14/2015 14:26:26 | 42.65 | 40.85 | 842 | 2.11 | 0.28 | 46.0 |
| 4/14/2015 14:26:27 | 42.98 | 41.18 | 852 | 2.12 | 0.27 | 46.6 |
| 4/14/2015 14:26:27 | 43.31 | 41.51 | 852 | 2.12 | 0.27 | 46.6 |
| 4/14/2015 14:26:27 | 43.64 | 41.84 | 823 | 2.12 | 0.27 | 45.0 |
| 4/14/2015 14:26:28 | 43.96 | 42.16 | 830 | 2.12 | 0.28 | 45.4 |
| 4/14/2015 14:26:28 | 44.29 | 42.49 | 831 | 1.86 | 0.28 | 45.4 |
| 4/14/2015 14:26:29 | 44.62 | 42.82 | 843 | 2.12 | 0.28 | 46.1 |
| 4/14/2015 14:26:29 | 44.95 | 43.15 | 843 | 2.12 | 0.28 | 46.1 |
| 4/14/2015 14:26:29 | 45.28 | 43.48 | 843 | 2.12 | 0.28 | 46.1 |
| 4/14/2015 14:26:36 | 45.60 | 43.80 | 51 | 2.25 | 1.18 | 2.8 |
| 4/14/2015 14:26:38 | 45.93 | 44.13 | 152 | 2.40 | 1.25 | 8.3 |
| 4/14/2015 14:26:40 | 46.26 | 44.46 | 170 | 2.37 | 1.30 | 9.3 |
| 4/14/2015 14:26:42 | 46.59 | 44.79 | 155 | 2.38 | 1.29 | 8.5 |
| 4/14/2015 14:26:45 | 46.92 | 45.12 | 160 | 2.36 | 1.19 | 8.8 |
| 4/14/2015 14:26:48 | 47.24 | 45.44 | 147 | 2.38 | 1.23 | 8.0 |
| 4/14/2015 14:26:52 | 47.57 | 45.77 | 76 | 2.40 | 1.18 | 4.2 |
| 4/14/2015 14:27:01 | 47.90 | 46.10 | 42 | 2.45 | 1.32 | 2.3 |
| 4/14/2015 14:27:08 | 48.23 | 46.43 | 51 | 2.41 | 1.36 | 2.8 |
| 4/14/2015 14:27:11 | 48.36 | 46.56 | 48 | 2.39 | 1.32 | 2.6 |

## CCB-348-15 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 14:23:38

**End Date:**
4/14/2015 14:28:57

**Operator Note:**
'1.8 Auto Complete'

**Northing:**
371,159.29

**Easting:**
258,185.75

**Tide (feet):**
1.80



## Hole: CCB-348-16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 14:19:49 | 31.82 | 30.02 | 859 | 2.12 | 0.27 | 47.0 |
| 4/14/2015 14:19:50 | 32.15 | 30.35 | 864 | 2.12 | 0.27 | 47.2 |
| 4/14/2015 14:19:50 | 32.48 | 30.68 | 864 | 2.12 | 0.27 | 47.2 |
| 4/14/2015 14:19:50 | 32.81 | 31.01 | 861 | 2.12 | 0.27 | 47.1 |
| 4/14/2015 14:19:51 | 33.14 | 31.34 | 856 | 2.11 | 0.27 | 46.8 |
| 4/14/2015 14:19:51 | 33.46 | 31.66 | 853 | 2.11 | 0.27 | 46.6 |
| 4/14/2015 14:19:52 | 33.79 | 31.99 | 848 | 2.12 | 0.27 | 46.4 |
| 4/14/2015 14:19:52 | 34.12 | 32.32 | 859 | 2.12 | 0.27 | 47.0 |
| 4/14/2015 14:19:53 | 34.45 | 32.65 | 859 | 2.12 | 0.27 | 47.0 |
| 4/14/2015 14:19:53 | 34.78 | 32.98 | 856 | 2.12 | 0.27 | 46.8 |
| 4/14/2015 14:19:53 | 35.11 | 33.31 | 853 | 2.12 | 0.27 | 46.6 |
| 4/14/2015 14:19:54 | 35.43 | 33.63 | 853 | 2.12 | 0.28 | 46.6 |
| 4/14/2015 14:19:54 | 35.76 | 33.96 | 861 | 2.12 | 0.27 | 47.1 |
| 4/14/2015 14:19:55 | 36.09 | 34.29 | 861 | 2.12 | 0.27 | 47.1 |
| 4/14/2015 14:19:55 | 36.42 | 34.62 | 850 | 2.12 | 0.27 | 46.5 |
| 4/14/2015 14:19:55 | 36.75 | 34.95 | 850 | 2.12 | 0.27 | 46.5 |
| 4/14/2015 14:19:56 | 37.07 | 35.27 | 851 | 2.12 | 0.27 | 46.5 |
| 4/14/2015 14:19:56 | 37.40 | 35.60 | 861 | 2.11 | 0.27 | 47.1 |
| 4/14/2015 14:19:57 | 37.73 | 35.93 | 861 | 2.11 | 0.27 | 47.1 |
| 4/14/2015 14:19:57 | 38.06 | 36.26 | 854 | 2.12 | 0.27 | 46.7 |
| 4/14/2015 14:19:57 | 38.39 | 36.59 | 856 | 2.12 | 0.27 | 46.8 |
| 4/14/2015 14:19:58 | 38.71 | 36.91 | 856 | 2.15 | 0.27 | 46.8 |
| 4/14/2015 14:19:58 | 39.04 | 37.24 | 861 | 2.11 | 0.28 | 47.1 |
| 4/14/2015 14:19:59 | 39.37 | 37.57 | 861 | 2.11 | 0.28 | 47.1 |
| 4/14/2015 14:19:59 | 39.70 | 37.90 | 853 | 2.11 | 0.27 | 46.6 |
| 4/14/2015 14:20:00 | 40.03 | 38.23 | 835 | 2.12 | 0.27 | 45.7 |
| 4/14/2015 14:20:00 | 40.35 | 38.55 | 840 | 2.11 | 0.27 | 46.0 |
| 4/14/2015 14:20:01 | 40.68 | 38.88 | 854 | 2.12 | 0.27 | 46.7 |
| 4/14/2015 14:20:01 | 41.01 | 39.21 | 854 | 2.12 | 0.27 | 46.7 |
| 4/14/2015 14:20:01 | 41.34 | 39.54 | 856 | 2.12 | 0.27 | 46.8 |
| 4/14/2015 14:20:02 | 41.67 | 39.87 | 854 | 2.11 | 0.27 | 46.7 |
| 4/14/2015 14:20:02 | 41.99 | 40.19 | 871 | 2.12 | 0.28 | 47.7 |
| 4/14/2015 14:20:03 | 42.32 | 40.52 | 846 | 2.11 | 0.27 | 46.3 |
| 4/14/2015 14:20:03 | 42.65 | 40.85 | 846 | 2.11 | 0.27 | 46.3 |
| 4/14/2015 14:20:03 | 42.98 | 41.18 | 846 | 2.11 | 0.27 | 46.3 |
| 4/14/2015 14:20:04 | 43.31 | 41.51 | 846 | 2.12 | 0.27 | 46.2 |
| 4/14/2015 14:20:04 | 43.64 | 41.84 | 830 | 2.11 | 0.27 | 45.4 |
| 4/14/2015 14:20:05 | 43.96 | 42.16 | 838 | 2.12 | 0.27 | 45.8 |
| 4/14/2015 14:20:05 | 44.29 | 42.49 | 838 | 2.12 | 0.27 | 45.8 |
| 4/14/2015 14:20:05 | 44.62 | 42.82 | 826 | 2.11 | 0.27 | 45.2 |
| 4/14/2015 14:20:06 | 44.95 | 43.15 | 841 | 2.12 | 0.27 | 46.0 |
| 4/14/2015 14:20:06 | 45.28 | 43.48 | 841 | 2.29 | 0.27 | 46.0 |
| 4/14/2015 14:20:16 | 45.60 | 43.80 | 52 | 2.31 | 1.24 | 2.8 |
| 4/14/2015 14:20:21 | 45.93 | 44.13 | 70 | 2.41 | 1.25 | 3.8 |
| 4/14/2015 14:20:26 | 46.26 | 44.46 | 72 | 2.42 | 1.29 | 3.9 |
| 4/14/2015 14:20:30 | 46.59 | 44.79 | 83 | 2.44 | 1.24 | 4.6 |
| 4/14/2015 14:20:36 | 46.92 | 45.12 | 64 | 2.40 | 1.21 | 3.5 |
| 4/14/2015 14:20:42 | 47.24 | 45.44 | 70 | 2.42 | 1.28 | 3.8 |
| 4/14/2015 14:20:46 | 47.57 | 45.77 | 72 | 2.41 | 1.22 | 3.9 |
| 4/14/2015 14:20:54 | 47.90 | 46.10 | 55 | 2.45 | 1.30 | 3.0 |
| 4/14/2015 14:20:57 | 48.03 | 46.23 | 44 | 2.40 | 1.14 | 2.4 |

## CCB-348-16 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 14:16:03

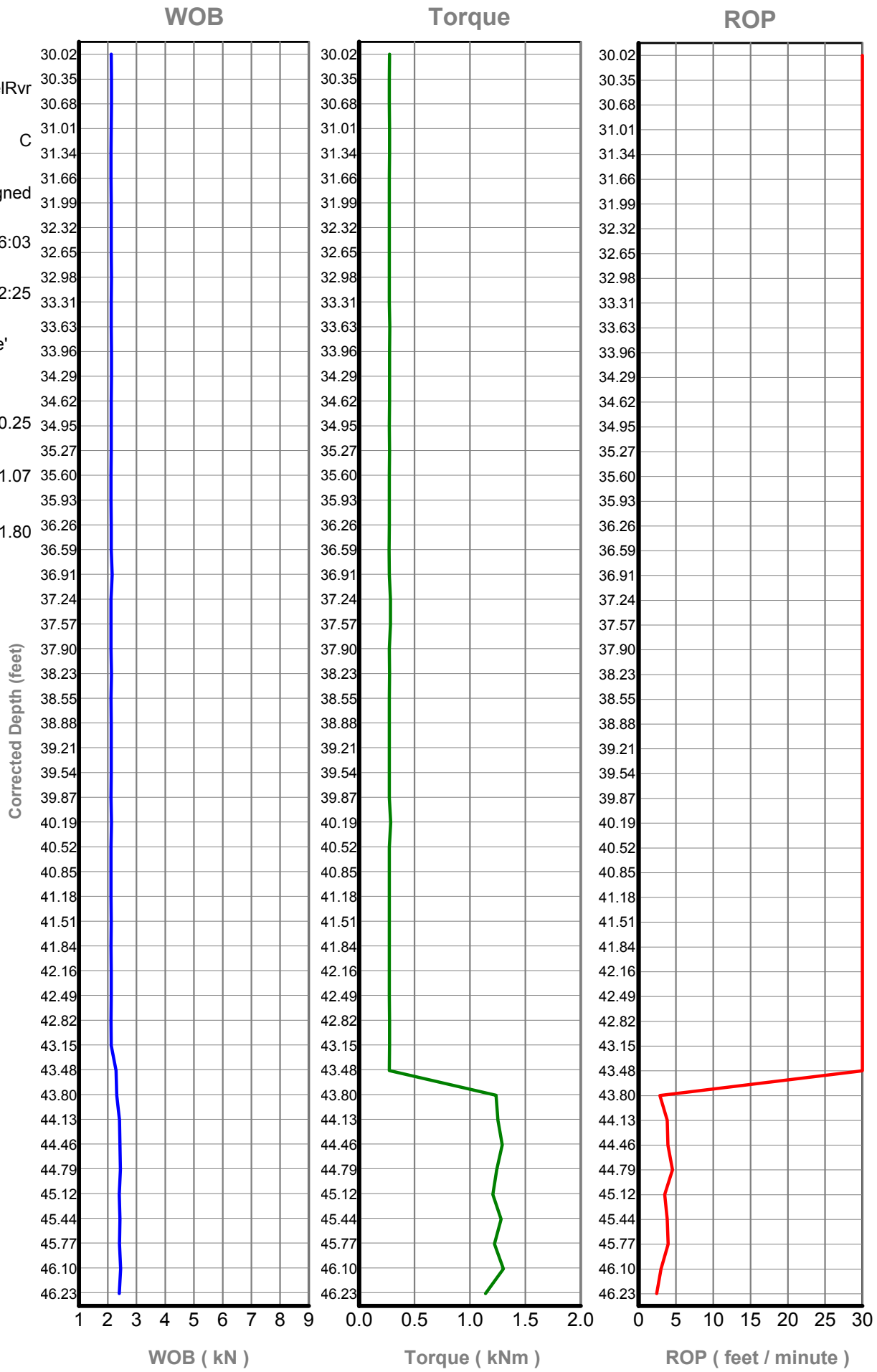
**End Date:**
4/14/2015 14:22:25

**Operator Note:**
'1.8 2.1 c Auto Complete'

**Northing:**
371,160.25

**Easting:**
258,191.07

**Tide (feet):**
1.80



## Hole: CCB-348-17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 14:01:58 | 31.82 | 30.02 | 825 | 2.12 | 0.25 | 45.1 |
| 4/14/2015 14:01:58 | 32.15 | 30.35 | 834 | 2.12 | 0.29 | 45.6 |
| 4/14/2015 14:01:59 | 32.48 | 30.68 | 834 | 2.12 | 0.29 | 45.6 |
| 4/14/2015 14:01:59 | 32.81 | 31.01 | 837 | 2.12 | 0.29 | 45.8 |
| 4/14/2015 14:01:59 | 33.14 | 31.34 | 831 | 2.12 | 0.29 | 45.4 |
| 4/14/2015 14:02:00 | 33.46 | 31.66 | 835 | 2.12 | 0.29 | 45.7 |
| 4/14/2015 14:02:00 | 33.79 | 31.99 | 833 | 2.12 | 0.28 | 45.6 |
| 4/14/2015 14:02:01 | 34.12 | 32.32 | 828 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 14:02:01 | 34.45 | 32.65 | 828 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 14:02:01 | 34.78 | 32.98 | 830 | 2.11 | 0.28 | 45.4 |
| 4/14/2015 14:02:02 | 35.11 | 33.31 | 830 | 2.13 | 0.28 | 45.4 |
| 4/14/2015 14:02:02 | 35.43 | 33.63 | 832 | 2.12 | 0.28 | 45.5 |
| 4/14/2015 14:02:03 | 35.76 | 33.96 | 827 | 2.12 | 0.28 | 45.2 |
| 4/14/2015 14:02:03 | 36.09 | 34.29 | 829 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 14:02:04 | 36.42 | 34.62 | 829 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 14:02:04 | 36.75 | 34.95 | 824 | 2.12 | 0.28 | 45.1 |
| 4/14/2015 14:02:04 | 37.07 | 35.27 | 820 | 2.12 | 0.28 | 44.8 |
| 4/14/2015 14:02:05 | 37.40 | 35.60 | 830 | 2.11 | 0.28 | 45.4 |
| 4/14/2015 14:02:05 | 37.73 | 35.93 | 827 | 2.13 | 0.28 | 45.2 |
| 4/14/2015 14:02:06 | 38.06 | 36.26 | 827 | 2.13 | 0.28 | 45.2 |
| 4/14/2015 14:02:06 | 38.39 | 36.59 | 827 | 2.13 | 0.28 | 45.2 |
| 4/14/2015 14:02:06 | 38.71 | 36.91 | 827 | 2.11 | 0.28 | 45.2 |
| 4/14/2015 14:02:07 | 39.04 | 37.24 | 838 | 2.12 | 0.28 | 45.8 |
| 4/14/2015 14:02:08 | 39.37 | 37.57 | 821 | 2.12 | 0.19 | 44.9 |
| 4/14/2015 14:02:08 | 39.70 | 37.90 | 839 | 2.12 | 0.28 | 45.9 |
| 4/14/2015 14:02:09 | 40.03 | 38.23 | 839 | 2.12 | 0.28 | 45.9 |
| 4/14/2015 14:02:09 | 40.35 | 38.55 | 829 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 14:02:09 | 40.68 | 38.88 | 837 | 2.12 | 0.28 | 45.8 |
| 4/14/2015 14:02:10 | 41.01 | 39.21 | 826 | 2.13 | 0.27 | 45.2 |
| 4/14/2015 14:02:10 | 41.34 | 39.54 | 826 | 2.12 | 0.28 | 45.2 |
| 4/14/2015 14:02:11 | 41.67 | 39.87 | 826 | 2.12 | 0.28 | 45.2 |
| 4/14/2015 14:02:11 | 41.99 | 40.19 | 826 | 2.12 | 0.28 | 45.2 |
| 4/14/2015 14:02:11 | 42.32 | 40.52 | 823 | 2.11 | 0.28 | 45.0 |
| 4/14/2015 14:02:12 | 42.65 | 40.85 | 823 | 2.12 | 0.28 | 45.0 |
| 4/14/2015 14:02:12 | 42.98 | 41.18 | 820 | 2.12 | 0.28 | 44.8 |
| 4/14/2015 14:02:13 | 43.31 | 41.51 | 815 | 2.12 | 0.28 | 44.6 |
| 4/14/2015 14:02:13 | 43.64 | 41.84 | 806 | 2.14 | 0.28 | 44.1 |
| 4/14/2015 14:02:14 | 43.96 | 42.16 | 806 | 2.14 | 0.28 | 44.1 |
| 4/14/2015 14:02:14 | 44.29 | 42.49 | 806 | 2.14 | 0.27 | 44.1 |
| 4/14/2015 14:02:14 | 44.62 | 42.82 | 801 | 2.14 | 0.28 | 43.8 |
| 4/14/2015 14:02:15 | 44.95 | 43.15 | 792 | 2.21 | 0.28 | 43.3 |
| 4/14/2015 14:02:33 | 45.28 | 43.48 | 103 | 2.31 | 1.14 | 5.6 |
| 4/14/2015 14:02:34 | 45.60 | 43.80 | 237 | 2.29 | 1.13 | 13.0 |
| 4/14/2015 14:02:34 | 45.93 | 44.13 | 317 | 2.17 | 1.13 | 17.3 |
| 4/14/2015 14:02:36 | 46.26 | 44.46 | 333 | 2.31 | 1.33 | 18.2 |
| 4/14/2015 14:02:39 | 46.59 | 44.79 | 136 | 2.33 | 1.30 | 7.4 |
| 4/14/2015 14:02:43 | 46.92 | 45.12 | 88 | 2.36 | 1.28 | 4.8 |
| 4/14/2015 14:02:47 | 47.24 | 45.44 | 74 | 2.33 | 1.29 | 4.1 |
| 4/14/2015 14:02:52 | 47.57 | 45.77 | 86 | 2.38 | 1.31 | 4.7 |
| 4/14/2015 14:02:57 | 47.90 | 46.10 | 47 | 2.47 | 1.31 | 2.5 |
| 4/14/2015 14:03:08 | 48.23 | 46.43 | 29 | 2.45 | 1.44 | 1.6 |
| 4/14/2015 14:03:09 | 48.27 | 46.47 | 41 | 2.44 | 1.48 | 2.2 |

## CCB-348-17 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 13:53:55

**End Date:**
4/14/2015 14:13:09

**Operator Note:**
'1.8 2.5 c Auto Complete'

**Northing:**
371,162.21

**Easting:**
258,195.75

**Tide (feet):**
1.80



## Hole: CCB-348-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:32:44 | 30.84 | 30.04 | 823 | 2.08 | 0.98 | 45.0 |
| 4/14/2015 15:32:44 | 31.17 | 30.37 | 820 | 2.08 | 0.99 | 44.8 |
| 4/14/2015 15:32:45 | 31.50 | 30.70 | 820 | 2.08 | 0.99 | 44.8 |
| 4/14/2015 15:32:45 | 31.82 | 31.02 | 817 | 2.08 | 0.99 | 44.7 |
| 4/14/2015 15:32:45 | 32.15 | 31.35 | 819 | 2.08 | 0.99 | 44.8 |
| 4/14/2015 15:32:46 | 32.48 | 31.68 | 821 | 2.10 | 0.99 | 44.9 |
| 4/14/2015 15:32:46 | 32.81 | 32.01 | 818 | 2.10 | 0.99 | 44.7 |
| 4/14/2015 15:32:47 | 33.14 | 32.34 | 818 | 2.10 | 0.99 | 44.7 |
| 4/14/2015 15:32:47 | 33.46 | 32.66 | 818 | 2.10 | 0.99 | 44.7 |
| 4/14/2015 15:32:47 | 33.79 | 32.99 | 818 | 2.08 | 0.99 | 44.7 |
| 4/14/2015 15:32:48 | 34.12 | 33.32 | 823 | 2.10 | 0.98 | 45.0 |
| 4/14/2015 15:32:48 | 34.45 | 33.65 | 815 | 2.09 | 0.98 | 44.6 |
| 4/14/2015 15:32:49 | 34.78 | 33.98 | 812 | 2.09 | 1.02 | 44.4 |
| 4/14/2015 15:32:49 | 35.11 | 34.31 | 812 | 2.11 | 0.79 | 44.4 |
| 4/14/2015 15:32:50 | 35.43 | 34.63 | 815 | 2.10 | 0.79 | 44.6 |
| 4/14/2015 15:32:50 | 35.76 | 34.96 | 815 | 2.10 | 0.79 | 44.6 |
| 4/14/2015 15:32:50 | 36.09 | 35.29 | 808 | 2.10 | 0.79 | 44.2 |
| 4/14/2015 15:32:51 | 36.42 | 35.62 | 812 | 2.08 | 0.79 | 44.4 |
| 4/14/2015 15:32:51 | 36.75 | 35.95 | 815 | 2.08 | 0.79 | 44.6 |
| 4/14/2015 15:32:52 | 37.07 | 36.27 | 823 | 2.10 | 0.80 | 45.0 |
| 4/14/2015 15:32:53 | 37.40 | 36.60 | 812 | 2.10 | 0.78 | 44.4 |
| 4/14/2015 15:32:53 | 37.73 | 36.93 | 812 | 2.10 | 0.78 | 44.4 |
| 4/14/2015 15:32:53 | 38.06 | 37.26 | 823 | 2.09 | 0.79 | 45.0 |
| 4/14/2015 15:32:54 | 38.39 | 37.59 | 818 | 2.09 | 0.79 | 44.7 |
| 4/14/2015 15:32:54 | 38.71 | 37.91 | 821 | 2.10 | 0.78 | 44.9 |
| 4/14/2015 15:32:55 | 39.04 | 38.24 | 818 | 2.11 | 0.78 | 44.7 |
| 4/14/2015 15:32:55 | 39.37 | 38.57 | 818 | 2.10 | 0.78 | 44.7 |
| 4/14/2015 15:32:56 | 39.70 | 38.90 | 818 | 2.10 | 0.78 | 44.7 |
| 4/14/2015 15:32:56 | 40.03 | 39.23 | 810 | 2.09 | 0.78 | 44.3 |
| 4/14/2015 15:32:56 | 40.35 | 39.55 | 821 | 2.10 | 0.78 | 44.9 |
| 4/14/2015 15:32:57 | 40.68 | 39.88 | 815 | 2.09 | 0.78 | 44.6 |
| 4/14/2015 15:32:57 | 41.01 | 40.21 | 811 | 2.10 | 0.78 | 44.3 |
| 4/14/2015 15:32:58 | 41.34 | 40.54 | 818 | 2.10 | 0.78 | 44.7 |
| 4/14/2015 15:32:58 | 41.67 | 40.87 | 818 | 2.10 | 0.78 | 44.7 |
| 4/14/2015 15:32:58 | 41.99 | 41.19 | 821 | 2.09 | 0.78 | 44.9 |
| 4/14/2015 15:32:59 | 42.32 | 41.52 | 815 | 2.10 | 0.78 | 44.6 |
| 4/14/2015 15:32:59 | 42.65 | 41.85 | 815 | 2.17 | 0.77 | 44.6 |
| 4/14/2015 15:33:00 | 42.98 | 42.18 | 805 | 2.18 | 0.77 | 44.0 |
| 4/14/2015 15:33:00 | 43.31 | 42.51 | 805 | 2.12 | 0.77 | 44.0 |
| 4/14/2015 15:33:01 | 43.64 | 42.84 | 812 | 2.12 | 0.77 | 44.4 |
| 4/14/2015 15:33:01 | 43.96 | 43.16 | 812 | 2.12 | 0.77 | 44.4 |
| 4/14/2015 15:33:01 | 44.29 | 43.49 | 819 | 2.07 | 0.77 | 44.8 |
| 4/14/2015 15:33:02 | 44.62 | 43.82 | 820 | 2.07 | 0.77 | 44.9 |
| 4/14/2015 15:33:02 | 44.95 | 44.15 | 829 | 2.11 | 0.77 | 45.3 |
| 4/14/2015 15:33:03 | 45.28 | 44.48 | 850 | 2.09 | 0.77 | 46.5 |
| 4/14/2015 15:33:04 | 45.60 | 44.80 | 850 | 2.09 | 0.77 | 46.5 |
| 4/14/2015 15:33:05 | 45.93 | 45.13 | 613 | 2.30 | 1.37 | 33.5 |
| 4/14/2015 15:33:19 | 46.26 | 45.46 | 0 | 2.20 | 1.15 | 0.0 |
| 4/14/2015 15:33:20 | 46.59 | 45.79 | 121 | 2.29 | 1.11 | 6.6 |
| 4/14/2015 15:33:24 | 46.92 | 46.12 | 108 | 2.29 | 1.16 | 5.9 |
| 4/14/2015 15:34:06 | 47.24 | 46.44 | 0 | 2.30 | 1.24 | 0.0 |
| 4/14/2015 15:34:15 | 47.57 | 46.77 | 0 | 2.29 | 1.15 | 0.0 |
| 4/14/2015 15:34:23 | 47.90 | 47.10 | 55 | 2.31 | 1.18 | 3.0 |
| 4/14/2015 15:34:30 | 48.23 | 47.43 | 49 | 2.37 | 1.20 | 2.7 |
| 4/14/2015 15:34:34 | 48.56 | 47.76 | 95 | 2.34 | 1.25 | 5.2 |
| 4/14/2015 15:34:38 | 48.88 | 48.08 | 97 | 2.38 | 1.37 | 5.3 |
| 4/14/2015 15:34:41 | 49.21 | 48.41 | 93 | 2.35 | 1.21 | 5.1 |
| 4/14/2015 15:35:02 | 49.54 | 48.74 | 26 | 2.31 | 1.34 | 1.4 |
| 4/14/2015 15:35:04 | 49.63 | 48.83 | 32 | 2.29 | 1.24 | 1.7 |

## CCB-348-2 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:29:32

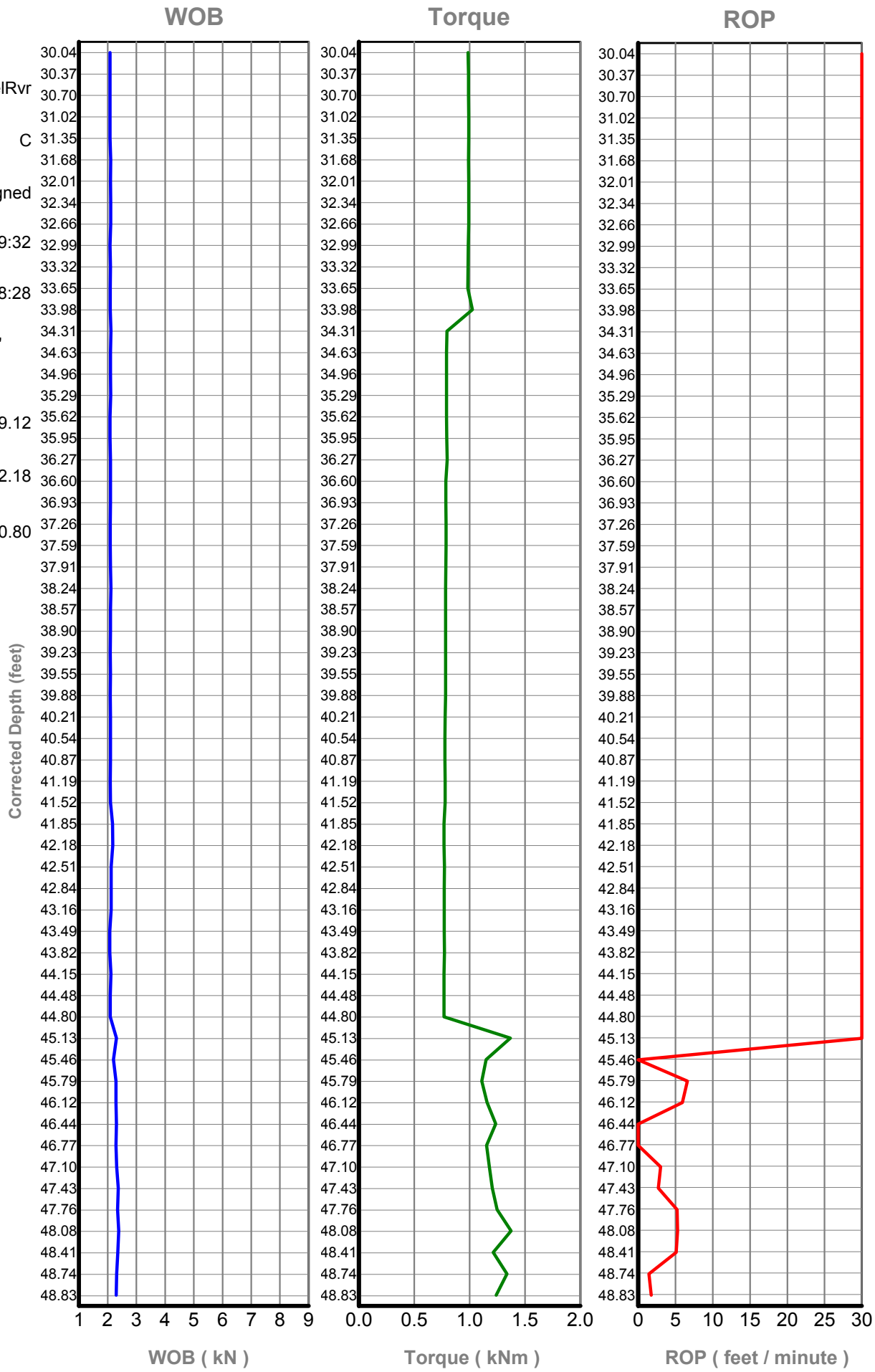
**End Date:**
4/14/2015 15:38:28

**Operator Note:**
'0.8 1. C Auto Complete'

**Northing:**
371,149.12

**Easting:**
258,162.18

**Tide (feet):**
0.80



## Hole: CCB-348-3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:20:18 | 31.17 | 30.17 | 787 | 2.12 | 0.28 | 43.0 |
| 4/14/2015 15:20:19 | 31.50 | 30.50 | 796 | 2.10 | 0.28 | 43.6 |
| 4/14/2015 15:20:19 | 31.82 | 30.82 | 786 | 2.10 | 0.28 | 43.0 |
| 4/14/2015 15:20:20 | 32.15 | 31.15 | 779 | 2.10 | 0.28 | 42.6 |
| 4/14/2015 15:20:20 | 32.48 | 31.48 | 789 | 2.10 | 0.28 | 43.2 |
| 4/14/2015 15:20:21 | 32.81 | 31.81 | 782 | 2.09 | 0.28 | 42.8 |
| 4/14/2015 15:20:21 | 33.14 | 32.14 | 787 | 2.35 | 0.28 | 43.0 |
| 4/14/2015 15:20:22 | 33.46 | 32.46 | 787 | 2.35 | 0.28 | 43.0 |
| 4/14/2015 15:20:22 | 33.79 | 32.79 | 787 | 2.09 | 0.28 | 43.0 |
| 4/14/2015 15:20:22 | 34.12 | 33.12 | 792 | 2.09 | 0.28 | 43.3 |
| 4/14/2015 15:20:23 | 34.45 | 33.45 | 781 | 2.09 | 0.29 | 42.7 |
| 4/14/2015 15:20:24 | 34.78 | 33.78 | 785 | 2.10 | 0.29 | 42.9 |
| 4/14/2015 15:20:24 | 35.11 | 34.11 | 780 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:25 | 35.43 | 34.43 | 780 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:25 | 35.76 | 34.76 | 780 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:26 | 36.09 | 35.09 | 780 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:26 | 36.42 | 35.42 | 780 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:26 | 36.75 | 35.75 | 783 | 2.10 | 0.28 | 42.8 |
| 4/14/2015 15:20:27 | 37.07 | 36.07 | 786 | 2.10 | 0.28 | 43.0 |
| 4/14/2015 15:20:27 | 37.40 | 36.40 | 786 | 2.09 | 0.28 | 43.0 |
| 4/14/2015 15:20:28 | 37.73 | 36.73 | 786 | 2.10 | 0.28 | 43.0 |
| 4/14/2015 15:20:28 | 38.06 | 37.06 | 786 | 2.09 | 0.28 | 43.0 |
| 4/14/2015 15:20:29 | 38.39 | 37.39 | 782 | 2.10 | 0.28 | 42.8 |
| 4/14/2015 15:20:29 | 38.71 | 37.71 | 782 | 2.10 | 0.28 | 42.8 |
| 4/14/2015 15:20:29 | 39.04 | 38.04 | 784 | 2.10 | 0.28 | 42.9 |
| 4/14/2015 15:20:30 | 39.37 | 38.37 | 784 | 2.08 | 0.28 | 42.9 |
| 4/14/2015 15:20:30 | 39.70 | 38.70 | 782 | 2.11 | 0.28 | 42.8 |
| 4/14/2015 15:20:31 | 40.03 | 39.03 | 790 | 2.09 | 0.27 | 43.2 |
| 4/14/2015 15:20:31 | 40.35 | 39.35 | 791 | 2.10 | 0.28 | 43.3 |
| 4/14/2015 15:20:32 | 40.68 | 39.68 | 786 | 2.09 | 0.28 | 43.0 |
| 4/14/2015 15:20:32 | 41.01 | 40.01 | 789 | 2.10 | 0.28 | 43.2 |
| 4/14/2015 15:20:33 | 41.34 | 40.34 | 789 | 2.10 | 0.28 | 43.2 |
| 4/14/2015 15:20:33 | 41.67 | 40.67 | 789 | 2.10 | 0.27 | 43.2 |
| 4/14/2015 15:20:34 | 41.99 | 40.99 | 786 | 2.10 | 0.28 | 43.0 |
| 4/14/2015 15:20:34 | 42.32 | 41.32 | 789 | 2.10 | 0.28 | 43.1 |
| 4/14/2015 15:20:35 | 42.65 | 41.65 | 781 | 2.10 | 0.28 | 42.7 |
| 4/14/2015 15:20:35 | 42.98 | 41.98 | 786 | 2.10 | 0.28 | 43.0 |
| 4/14/2015 15:20:36 | 43.31 | 42.31 | 783 | 2.09 | 0.28 | 42.8 |
| 4/14/2015 15:20:36 | 43.64 | 42.64 | 783 | 2.11 | 0.28 | 42.8 |
| 4/14/2015 15:20:37 | 43.96 | 42.96 | 783 | 2.11 | 0.28 | 42.8 |
| 4/14/2015 15:20:37 | 44.29 | 43.29 | 781 | 2.11 | 0.28 | 42.7 |
| 4/14/2015 15:20:37 | 44.62 | 43.62 | 786 | 2.12 | 0.27 | 43.0 |
| 4/14/2015 15:20:38 | 44.95 | 43.95 | 783 | 2.10 | 0.28 | 42.8 |
| 4/14/2015 15:20:38 | 45.28 | 44.28 | 783 | 2.17 | 0.28 | 42.8 |
| 4/14/2015 15:20:42 | 45.60 | 44.60 | 32 | 2.22 | 1.11 | 1.7 |
| 4/14/2015 15:20:51 | 45.93 | 44.93 | 32 | 2.30 | 1.15 | 1.7 |
| 4/14/2015 15:21:27 | 46.26 | 45.26 | 0 | 2.31 | 1.24 | 0.0 |
| 4/14/2015 15:21:32 | 46.59 | 45.59 | 69 | 2.29 | 1.26 | 3.8 |
| 4/14/2015 15:21:37 | 46.92 | 45.92 | 60 | 2.36 | 1.29 | 3.3 |
| 4/14/2015 15:21:44 | 47.24 | 46.24 | 41 | 2.33 | 1.22 | 2.2 |
| 4/14/2015 15:22:03 | 47.57 | 46.57 | 74 | 2.23 | 1.12 | 4.0 |
| 4/14/2015 15:22:05 | 47.90 | 46.90 | 163 | 2.38 | 1.31 | 8.9 |
| 4/14/2015 15:22:33 | 48.23 | 47.23 | 87 | 2.37 | 1.19 | 4.7 |
| 4/14/2015 15:22:37 | 48.56 | 47.56 | 84 | 2.37 | 1.27 | 4.6 |
| 4/14/2015 15:22:41 | 48.88 | 47.88 | 98 | 2.36 | 1.24 | 5.3 |
| 4/14/2015 15:22:43 | 49.21 | 48.21 | 134 | 2.37 | 1.42 | 7.3 |
| 4/14/2015 15:23:07 | 49.54 | 48.54 | 6 | 2.35 | 1.26 | 0.3 |
| 4/14/2015 15:23:13 | 49.87 | 48.87 | 81 | 2.38 | 1.33 | 4.4 |
| 4/14/2015 15:23:18 | 50.20 | 49.20 | 55 | 2.38 | 1.26 | 3.0 |
| 4/14/2015 15:23:24 | 50.53 | 49.53 | 72 | 2.35 | 1.21 | 3.9 |
| 4/14/2015 15:23:27 | 50.85 | 49.85 | 107 | 2.35 | 1.26 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:23:31 | 51.18 | 50.18 | 75 | 2.39 | 1.32 | 4.1 |

## CCB-348-3 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:18:35

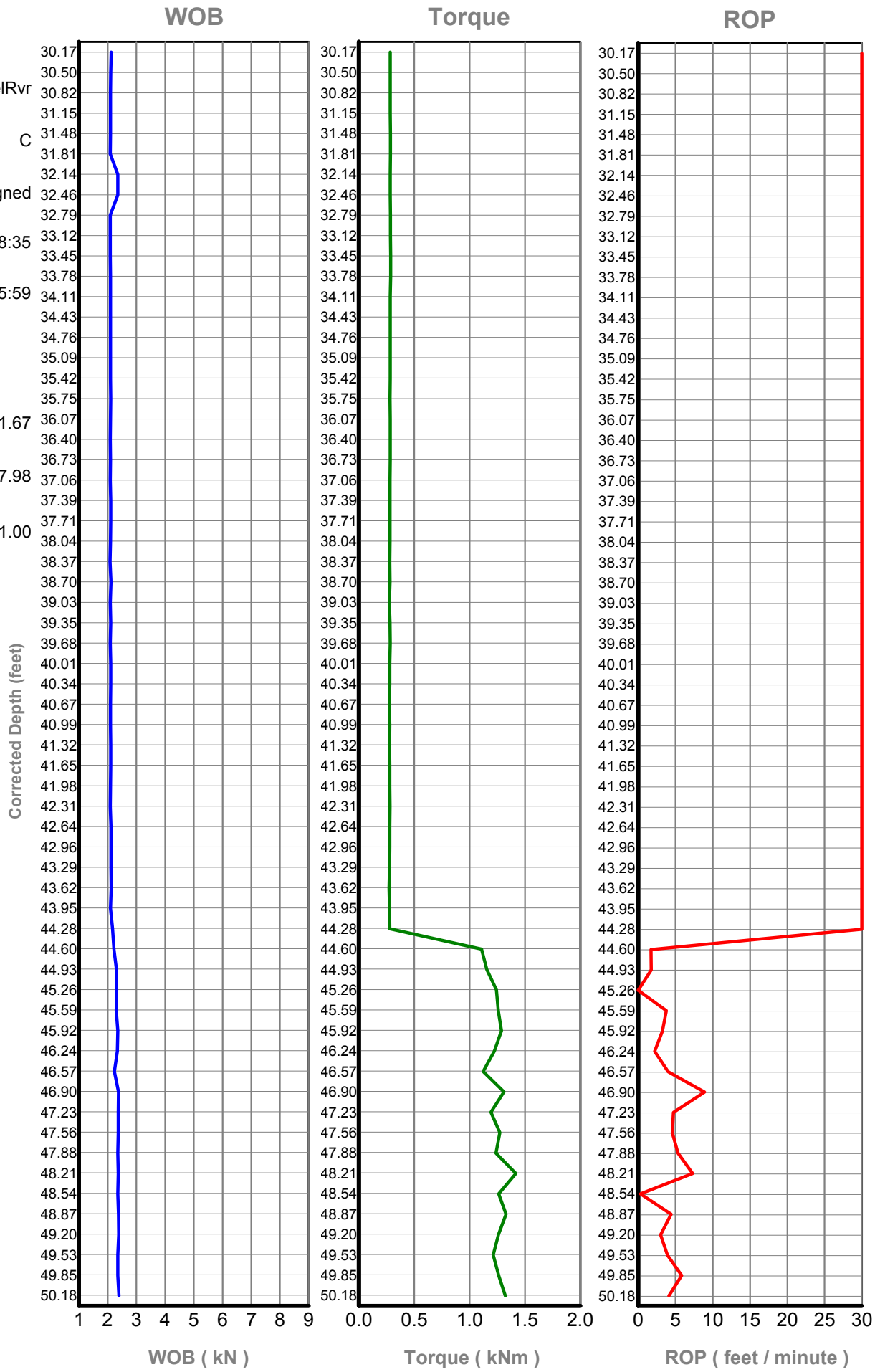
**End Date:**
4/14/2015 15:25:59

**Operator Note:**
'1 1.1 c Auto Complete'

**Northing:**
371,151.67

**Easting:**
258,167.98

**Tide (feet):**
1.00



## Hole: CCB-348-4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 16:59:40 | 30.18 | 30.08 | 784 | 2.10 | 0.87 | 42.9 |
| 4/14/2015 16:59:40 | 30.51 | 30.41 | 784 | 2.10 | 0.88 | 42.9 |
| 4/14/2015 16:59:40 | 30.84 | 30.74 | 789 | 2.11 | 0.87 | 43.1 |
| 4/14/2015 16:59:41 | 31.17 | 31.07 | 783 | 2.11 | 0.87 | 42.8 |
| 4/14/2015 16:59:41 | 31.50 | 31.40 | 780 | 2.10 | 0.87 | 42.7 |
| 4/14/2015 16:59:42 | 31.82 | 31.72 | 778 | 2.10 | 0.87 | 42.5 |
| 4/14/2015 16:59:42 | 32.15 | 32.05 | 778 | 2.10 | 0.87 | 42.5 |
| 4/14/2015 16:59:43 | 32.48 | 32.38 | 776 | 2.10 | 0.87 | 42.4 |
| 4/14/2015 16:59:43 | 32.81 | 32.71 | 776 | 2.10 | 0.87 | 42.4 |
| 4/14/2015 16:59:43 | 33.14 | 33.04 | 783 | 2.10 | 0.87 | 42.8 |
| 4/14/2015 16:59:44 | 33.46 | 33.36 | 781 | 2.10 | 0.87 | 42.7 |
| 4/14/2015 16:59:44 | 33.79 | 33.69 | 778 | 2.10 | 0.86 | 42.5 |
| 4/14/2015 16:59:45 | 34.12 | 34.02 | 778 | 2.10 | 0.86 | 42.5 |
| 4/14/2015 16:59:45 | 34.45 | 34.35 | 778 | 2.10 | 0.87 | 42.5 |
| 4/14/2015 16:59:46 | 34.78 | 34.68 | 772 | 2.11 | 0.87 | 42.2 |
| 4/14/2015 16:59:46 | 35.11 | 35.01 | 775 | 2.10 | 0.86 | 42.4 |
| 4/14/2015 16:59:47 | 35.43 | 35.33 | 770 | 2.10 | 0.86 | 42.1 |
| 4/14/2015 16:59:47 | 35.76 | 35.66 | 770 | 2.10 | 0.86 | 42.1 |
| 4/14/2015 16:59:47 | 36.09 | 35.99 | 775 | 2.10 | 0.86 | 42.4 |
| 4/14/2015 16:59:48 | 36.42 | 36.32 | 772 | 2.11 | 0.87 | 42.2 |
| 4/14/2015 16:59:48 | 36.75 | 36.65 | 775 | 2.10 | 0.86 | 42.4 |
| 4/14/2015 16:59:49 | 37.07 | 36.97 | 772 | 2.10 | 0.86 | 42.2 |
| 4/14/2015 16:59:50 | 37.40 | 37.30 | 780 | 2.11 | 0.86 | 42.6 |
| 4/14/2015 16:59:50 | 37.73 | 37.63 | 775 | 2.11 | 0.87 | 42.4 |
| 4/14/2015 16:59:51 | 38.06 | 37.96 | 778 | 2.12 | 0.86 | 42.5 |
| 4/14/2015 16:59:51 | 38.39 | 38.29 | 775 | 2.11 | 0.87 | 42.4 |
| 4/14/2015 16:59:52 | 38.71 | 38.61 | 775 | 2.11 | 0.87 | 42.4 |
| 4/14/2015 16:59:52 | 39.04 | 38.94 | 773 | 2.12 | 0.94 | 42.3 |
| 4/14/2015 16:59:52 | 39.37 | 39.27 | 775 | 2.12 | 1.04 | 42.4 |
| 4/14/2015 17:00:11 | 39.70 | 39.60 | 0 | 2.17 | 1.16 | 0.0 |
| 4/14/2015 17:00:31 | 40.03 | 39.93 | 17 | 2.18 | 1.12 | 0.9 |
| 4/14/2015 17:00:40 | 40.35 | 40.25 | 37 | 2.19 | 1.17 | 2.0 |
| 4/14/2015 17:01:14 | 40.68 | 40.58 | 21 | 2.28 | 1.28 | 1.1 |
| 4/14/2015 17:02:26 | 41.01 | 40.91 | 41 | 2.32 | 1.42 | 2.2 |
| 4/14/2015 17:03:01 | 41.34 | 41.24 | 23 | 2.12 | 1.05 | 1.2 |
| 4/14/2015 17:04:03 | 41.67 | 41.57 | 53 | 2.23 | 1.47 | 2.9 |
| 4/14/2015 17:04:04 | 41.99 | 41.89 | 72 | 2.28 | 1.40 | 3.9 |
| 4/14/2015 17:04:06 | 42.32 | 42.22 | 212 | 2.29 | 1.31 | 11.6 |
| 4/14/2015 17:04:16 | 42.65 | 42.55 | 50 | 2.12 | 1.16 | 2.7 |
| 4/14/2015 17:04:16 | 42.98 | 42.88 | 153 | 2.14 | 1.09 | 8.4 |
| 4/14/2015 17:04:17 | 43.31 | 43.21 | 240 | 2.27 | 1.20 | 13.1 |
| 4/14/2015 17:04:18 | 43.64 | 43.54 | 308 | 2.35 | 1.30 | 16.8 |
| 4/14/2015 17:04:19 | 43.96 | 43.86 | 382 | 2.31 | 1.23 | 20.9 |
| 4/14/2015 17:05:56 | 44.29 | 44.19 | 15 | 2.31 | 1.26 | 0.8 |
| 4/14/2015 17:05:57 | 44.62 | 44.52 | 153 | 2.35 | 1.27 | 8.4 |
| 4/14/2015 17:06:51 | 44.95 | 44.85 | 20 | 2.31 | 1.54 | 1.1 |
| 4/14/2015 17:06:57 | 45.28 | 45.18 | 112 | 2.31 | 1.32 | 6.1 |
| 4/14/2015 17:07:05 | 45.60 | 45.50 | 67 | 2.29 | 1.18 | 3.6 |
| 4/14/2015 17:07:12 | 45.93 | 45.83 | 60 | 2.31 | 1.23 | 3.3 |
| 4/14/2015 17:07:18 | 46.26 | 46.16 | 58 | 2.30 | 1.22 | 3.2 |
| 4/14/2015 17:07:28 | 46.59 | 46.49 | 50 | 2.27 | 1.17 | 2.7 |
| 4/14/2015 17:07:35 | 46.92 | 46.82 | 64 | 2.33 | 1.18 | 3.5 |
| 4/14/2015 17:07:37 | 47.24 | 47.14 | 204 | 2.35 | 1.17 | 11.2 |
| 4/14/2015 17:07:39 | 47.57 | 47.47 | 205 | 2.35 | 1.14 | 11.2 |
| 4/14/2015 17:07:40 | 47.84 | 47.74 | 214 | 2.02 | 1.10 | 11.7 |

## CCB-348-4 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 16:57:58

**End Date:**
4/14/2015 17:10:00

**Operator Note:**
'0.1 0.1 c Auto Complete'

**Northing:**
371,176.91

**Easting:**
258,167.36

**Tide (feet):**
0.10



## Hole: CCB-348-5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 17:12:44 | 30.51 | 30.21 | 774 | 2.10 | 0.82 | 42.3 |
| 4/14/2015 17:12:45 | 30.84 | 30.54 | 784 | 2.09 | 0.82 | 42.9 |
| 4/14/2015 17:12:45 | 31.17 | 30.87 | 776 | 2.09 | 0.82 | 42.4 |
| 4/14/2015 17:12:46 | 31.50 | 31.20 | 778 | 2.08 | 0.82 | 42.6 |
| 4/14/2015 17:12:46 | 31.82 | 31.52 | 778 | 2.08 | 0.82 | 42.6 |
| 4/14/2015 17:12:46 | 32.15 | 31.85 | 778 | 2.08 | 0.82 | 42.6 |
| 4/14/2015 17:12:47 | 32.48 | 32.18 | 787 | 2.09 | 0.81 | 43.0 |
| 4/14/2015 17:12:47 | 32.81 | 32.51 | 775 | 2.09 | 0.82 | 42.4 |
| 4/14/2015 17:12:48 | 33.14 | 32.84 | 777 | 2.09 | 0.82 | 42.5 |
| 4/14/2015 17:12:48 | 33.46 | 33.16 | 772 | 2.09 | 0.83 | 42.2 |
| 4/14/2015 17:12:49 | 33.79 | 33.49 | 772 | 2.09 | 0.82 | 42.2 |
| 4/14/2015 17:12:49 | 34.12 | 33.82 | 769 | 2.09 | 0.82 | 42.0 |
| 4/14/2015 17:12:50 | 34.45 | 34.15 | 769 | 2.10 | 0.83 | 42.0 |
| 4/14/2015 17:12:51 | 34.78 | 34.48 | 769 | 2.10 | 0.83 | 42.0 |
| 4/14/2015 17:12:51 | 35.11 | 34.81 | 764 | 2.08 | 0.82 | 41.8 |
| 4/14/2015 17:12:51 | 35.43 | 35.13 | 751 | 2.09 | 0.82 | 41.1 |
| 4/14/2015 17:12:52 | 35.76 | 35.46 | 751 | 2.09 | 0.82 | 41.1 |
| 4/14/2015 17:12:52 | 36.09 | 35.79 | 761 | 2.08 | 0.82 | 41.6 |
| 4/14/2015 17:12:53 | 36.42 | 36.12 | 757 | 2.08 | 0.83 | 41.4 |
| 4/14/2015 17:12:53 | 36.75 | 36.45 | 759 | 2.10 | 0.82 | 41.5 |
| 4/14/2015 17:12:54 | 37.07 | 36.77 | 759 | 2.08 | 0.84 | 41.5 |
| 4/14/2015 17:12:54 | 37.40 | 37.10 | 777 | 2.09 | 0.87 | 42.5 |
| 4/14/2015 17:12:55 | 37.73 | 37.43 | 777 | 2.09 | 0.87 | 42.5 |
| 4/14/2015 17:12:55 | 38.06 | 37.76 | 764 | 2.10 | 0.82 | 41.8 |
| 4/14/2015 17:12:55 | 38.39 | 38.09 | 769 | 2.09 | 0.84 | 42.0 |
| 4/14/2015 17:12:56 | 38.71 | 38.41 | 766 | 2.09 | 0.87 | 41.9 |
| 4/14/2015 17:12:56 | 39.04 | 38.74 | 768 | 2.12 | 0.88 | 42.0 |
| 4/14/2015 17:13:54 | 39.37 | 39.07 | 0 | 2.13 | 1.07 | 0.0 |
| 4/14/2015 17:13:55 | 39.70 | 39.40 | 122 | 2.22 | 1.23 | 6.7 |
| 4/14/2015 17:13:55 | 40.03 | 39.73 | 174 | 2.25 | 1.19 | 9.5 |
| 4/14/2015 17:14:27 | 40.35 | 40.05 | 0 | 2.20 | 1.25 | 0.0 |
| 4/14/2015 17:15:53 | 40.68 | 40.38 | 0 | 2.21 | 1.17 | 0.0 |
| 4/14/2015 17:15:54 | 41.01 | 40.71 | 114 | 2.24 | 1.30 | 6.2 |
| 4/14/2015 17:16:19 | 41.34 | 41.04 | 29 | 2.33 | 1.48 | 1.6 |
| 4/14/2015 17:16:35 | 41.67 | 41.37 | 67 | 2.35 | 1.39 | 3.6 |
| 4/14/2015 17:17:32 | 41.99 | 41.69 | 40 | 2.36 | 1.33 | 2.2 |
| 4/14/2015 17:17:33 | 42.32 | 42.02 | 125 | 2.28 | 1.19 | 6.9 |
| 4/14/2015 17:17:34 | 42.65 | 42.35 | 298 | 2.27 | 1.47 | 16.3 |
| 4/14/2015 17:19:22 | 42.98 | 42.68 | 0 | 2.19 | 1.18 | 0.0 |
| 4/14/2015 17:19:23 | 43.31 | 43.01 | 70 | 2.21 | 1.14 | 3.8 |
| 4/14/2015 17:19:29 | 43.64 | 43.34 | 0 | 2.36 | 1.16 | 0.0 |
| 4/14/2015 17:19:30 | 43.96 | 43.66 | 103 | 2.23 | 1.13 | 5.6 |
| 4/14/2015 17:21:00 | 44.29 | 43.99 | 33 | 2.31 | 1.17 | 1.8 |
| 4/14/2015 17:21:01 | 44.62 | 44.32 | 166 | 2.29 | 1.11 | 9.1 |
| 4/14/2015 17:21:02 | 44.95 | 44.65 | 274 | 2.29 | 1.14 | 15.0 |
| 4/14/2015 17:21:04 | 45.28 | 44.98 | 212 | 2.30 | 1.10 | 11.6 |
| 4/14/2015 17:21:06 | 45.60 | 45.30 | 187 | 2.46 | 1.16 | 10.2 |
| 4/14/2015 17:21:08 | 45.93 | 45.63 | 206 | 2.36 | 1.16 | 11.3 |
| 4/14/2015 17:21:10 | 46.26 | 45.96 | 164 | 2.36 | 1.11 | 9.0 |
| 4/14/2015 17:21:12 | 46.59 | 46.29 | 164 | 2.33 | 1.13 | 9.0 |
| 4/14/2015 17:21:14 | 46.92 | 46.62 | 179 | 2.33 | 1.16 | 9.8 |
| 4/14/2015 17:21:16 | 47.24 | 46.94 | 158 | 2.33 | 1.17 | 8.7 |
| 4/14/2015 17:21:19 | 47.57 | 47.27 | 134 | 2.39 | 1.14 | 7.3 |
| 4/14/2015 17:21:22 | 47.90 | 47.60 | 126 | 2.36 | 1.21 | 6.9 |
| 4/14/2015 17:21:25 | 48.23 | 47.93 | 125 | 2.36 | 1.15 | 6.8 |
| 4/14/2015 17:21:29 | 48.56 | 48.26 | 94 | 2.33 | 1.23 | 5.1 |
| 4/14/2015 17:21:29 | 48.62 | 48.32 | 93 | 2.33 | 1.30 | 5.1 |

## CCB-348-5 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 17:10:47

**End Date:**
4/14/2015 17:23:27

**Operator Note:**
'0.3 -0.54 c Auto Complete'

**Northing:**
371,172.16

**Easting:**
258,168.42

**Tide (feet):**
0.30



## Hole: CCB-348-6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:06:50 | 31.17 | 30.07 | 827 | 2.09 | 0.28 | 45.2 |
| 4/14/2015 15:06:51 | 31.50 | 30.40 | 827 | 2.09 | 0.28 | 45.2 |
| 4/14/2015 15:06:51 | 31.82 | 30.72 | 822 | 2.08 | 0.28 | 45.0 |
| 4/14/2015 15:06:52 | 32.15 | 31.05 | 827 | 2.09 | 0.28 | 45.2 |
| 4/14/2015 15:06:52 | 32.48 | 31.38 | 824 | 2.08 | 0.28 | 45.1 |
| 4/14/2015 15:06:53 | 32.81 | 31.71 | 824 | 2.09 | 0.28 | 45.1 |
| 4/14/2015 15:06:53 | 33.14 | 32.04 | 824 | 2.10 | 0.28 | 45.1 |
| 4/14/2015 15:06:54 | 33.46 | 32.36 | 824 | 2.10 | 0.28 | 45.1 |
| 4/14/2015 15:06:54 | 33.79 | 32.69 | 832 | 2.09 | 0.28 | 45.5 |
| 4/14/2015 15:06:54 | 34.12 | 33.02 | 829 | 2.08 | 0.28 | 45.3 |
| 4/14/2015 15:06:55 | 34.45 | 33.35 | 821 | 2.09 | 0.28 | 44.9 |
| 4/14/2015 15:06:55 | 34.78 | 33.68 | 816 | 2.10 | 0.28 | 44.6 |
| 4/14/2015 15:06:56 | 35.11 | 34.01 | 821 | 2.08 | 0.28 | 44.9 |
| 4/14/2015 15:06:56 | 35.43 | 34.33 | 821 | 2.08 | 0.28 | 44.9 |
| 4/14/2015 15:06:56 | 35.76 | 34.66 | 813 | 2.09 | 0.28 | 44.5 |
| 4/14/2015 15:06:57 | 36.09 | 34.99 | 818 | 2.09 | 0.28 | 44.7 |
| 4/14/2015 15:06:57 | 36.42 | 35.32 | 818 | 2.08 | 0.28 | 44.7 |
| 4/14/2015 15:06:58 | 36.75 | 35.65 | 826 | 2.09 | 0.28 | 45.2 |
| 4/14/2015 15:06:58 | 37.07 | 35.97 | 821 | 2.10 | 0.28 | 44.9 |
| 4/14/2015 15:06:59 | 37.40 | 36.30 | 821 | 2.10 | 0.28 | 44.9 |
| 4/14/2015 15:06:59 | 37.73 | 36.63 | 823 | 2.10 | 0.28 | 45.0 |
| 4/14/2015 15:06:59 | 38.06 | 36.96 | 819 | 2.10 | 0.28 | 44.8 |
| 4/14/2015 15:07:00 | 38.39 | 37.29 | 830 | 2.10 | 0.28 | 45.4 |
| 4/14/2015 15:07:00 | 38.71 | 37.61 | 824 | 2.10 | 0.28 | 45.1 |
| 4/14/2015 15:07:01 | 39.04 | 37.94 | 821 | 2.10 | 0.28 | 44.9 |
| 4/14/2015 15:07:02 | 39.37 | 38.27 | 821 | 2.10 | 0.28 | 44.9 |
| 4/14/2015 15:07:02 | 39.70 | 38.60 | 819 | 2.09 | 0.28 | 44.8 |
| 4/14/2015 15:07:02 | 40.03 | 38.93 | 829 | 2.12 | 0.28 | 45.3 |
| 4/14/2015 15:07:03 | 40.35 | 39.25 | 821 | 2.08 | 0.28 | 44.9 |
| 4/14/2015 15:07:03 | 40.68 | 39.58 | 824 | 2.10 | 0.77 | 45.1 |
| 4/14/2015 15:07:04 | 41.01 | 39.91 | 824 | 2.10 | 0.82 | 45.1 |
| 4/14/2015 15:07:04 | 41.34 | 40.24 | 824 | 2.10 | 0.82 | 45.1 |
| 4/14/2015 15:07:04 | 41.67 | 40.57 | 827 | 1.85 | 0.83 | 45.2 |
| 4/14/2015 15:07:05 | 41.99 | 40.89 | 824 | 2.09 | 0.83 | 45.1 |
| 4/14/2015 15:07:05 | 42.32 | 41.22 | 824 | 2.11 | 0.83 | 45.1 |
| 4/14/2015 15:07:06 | 42.65 | 41.55 | 819 | 2.09 | 0.84 | 44.8 |
| 4/14/2015 15:07:06 | 42.98 | 41.88 | 827 | 2.10 | 0.84 | 45.2 |
| 4/14/2015 15:07:07 | 43.31 | 42.21 | 827 | 2.10 | 0.84 | 45.2 |
| 4/14/2015 15:07:07 | 43.64 | 42.54 | 821 | 2.10 | 0.84 | 44.9 |
| 4/14/2015 15:07:07 | 43.96 | 42.86 | 821 | 2.10 | 0.84 | 44.9 |
| 4/14/2015 15:07:08 | 44.29 | 43.19 | 821 | 2.10 | 0.85 | 44.9 |
| 4/14/2015 15:07:08 | 44.62 | 43.52 | 821 | 2.09 | 0.85 | 44.9 |
| 4/14/2015 15:07:09 | 44.95 | 43.85 | 821 | 2.09 | 0.85 | 44.9 |
| 4/14/2015 15:07:09 | 45.28 | 44.18 | 821 | 2.09 | 0.85 | 44.9 |
| 4/14/2015 15:07:09 | 45.60 | 44.50 | 821 | 2.10 | 0.88 | 44.9 |
| 4/14/2015 15:07:10 | 45.93 | 44.83 | 727 | 2.25 | 1.22 | 39.8 |
| 4/14/2015 15:07:52 | 46.26 | 45.16 | 6 | 2.27 | 1.28 | 0.3 |
| 4/14/2015 15:07:55 | 46.59 | 45.49 | 135 | 2.27 | 1.31 | 7.4 |
| 4/14/2015 15:08:03 | 46.92 | 45.82 | 0 | 2.17 | 0.98 | 0.0 |
| 4/14/2015 15:08:07 | 47.24 | 46.14 | 61 | 2.16 | 0.98 | 3.3 |
| 4/14/2015 15:08:10 | 47.57 | 46.47 | 162 | 2.31 | 1.25 | 8.8 |
| 4/14/2015 15:08:13 | 47.90 | 46.80 | 90 | 2.33 | 1.33 | 4.9 |
| 4/14/2015 15:08:18 | 48.23 | 47.13 | 75 | 2.32 | 1.20 | 4.1 |
| 4/14/2015 15:08:23 | 48.56 | 47.46 | 84 | 2.31 | 1.21 | 4.6 |
| 4/14/2015 15:08:28 | 48.88 | 47.78 | 66 | 2.29 | 1.15 | 3.6 |
| 4/14/2015 15:08:33 | 49.21 | 48.11 | 67 | 2.30 | 1.21 | 3.7 |
| 4/14/2015 15:08:39 | 49.54 | 48.44 | 61 | 2.31 | 1.23 | 3.3 |
| 4/14/2015 15:08:49 | 49.87 | 48.77 | 18 | 2.30 | 1.23 | 1.0 |
| 4/14/2015 15:08:53 | 50.20 | 49.10 | 69 | 2.38 | 1.22 | 3.8 |
| 4/14/2015 15:08:58 | 50.53 | 49.43 | 81 | 2.37 | 1.24 | 4.5 |
| 4/14/2015 15:09:03 | 50.85 | 49.75 | 78 | 2.38 | 1.33 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:09:07 | 51.18 | 50.08 | 79 | 2.38 | 1.36 | 4.3 |
| 4/14/2015 | 15:09:11 | 51.51 | 50.41 | 84 | 2.40 | 1.29 | 4.6 |
| 4/14/2015 | 15:09:16 | 51.84 | 50.74 | 75 | 2.40 | 1.28 | 4.1 |
| 4/14/2015 | 15:09:21 | 52.17 | 51.07 | 71 | 2.40 | 1.42 | 3.9 |
| 4/14/2015 | 15:09:43 | 52.49 | 51.39 | 9 | 2.35 | 1.33 | 0.5 |
| 4/14/2015 | 15:09:47 | 52.82 | 51.72 | 78 | 2.36 | 1.24 | 4.3 |
| 4/14/2015 | 15:09:52 | 53.15 | 52.05 | 72 | 2.34 | 1.35 | 4.0 |
| 4/14/2015 | 15:09:56 | 53.48 | 52.38 | 87 | 2.37 | 1.27 | 4.7 |
| 4/14/2015 | 15:10:01 | 53.81 | 52.71 | 67 | 2.36 | 1.23 | 3.6 |
| 4/14/2015 | 15:10:05 | 54.13 | 53.03 | 77 | 2.38 | 1.27 | 4.2 |
| 4/14/2015 | 15:10:10 | 54.46 | 53.36 | 75 | 2.36 | 1.26 | 4.1 |
| 4/14/2015 | 15:10:15 | 54.79 | 53.69 | 73 | 2.38 | 1.41 | 4.0 |
| 4/14/2015 | 15:10:20 | 55.12 | 54.02 | 67 | 2.36 | 1.45 | 3.6 |
| 4/14/2015 | 15:10:32 | 55.45 | 54.35 | 72 | 2.36 | 1.41 | 3.9 |
| 4/14/2015 | 15:10:37 | 55.77 | 54.67 | 64 | 2.40 | 1.38 | 3.5 |
| 4/14/2015 | 15:10:43 | 56.10 | 55.00 | 67 | 2.36 | 1.27 | 3.6 |
| 4/14/2015 | 15:10:47 | 56.31 | 55.21 | 55 | 2.29 | 1.28 | 3.0 |

## CCB-348-6 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:04:10

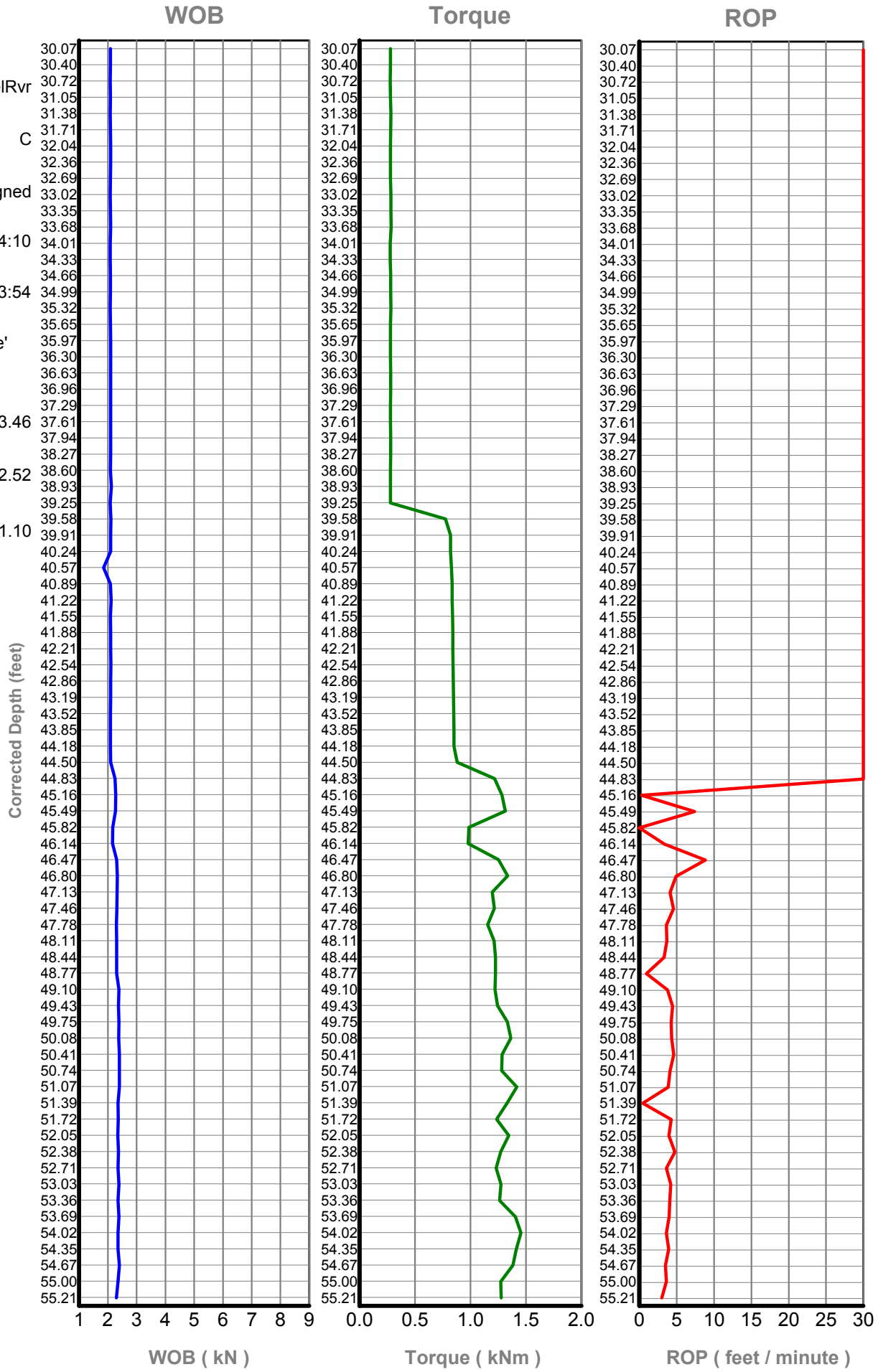
**End Date:**
4/14/2015 15:13:54

**Operator Note:**
'1.1 1.3 c Auto Complete'

**Northing:**
371,153.46

**Easting:**
258,172.52

**Tide (feet):**
1.10



## Hole: CCB-348-7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 17:25:53 | 30.51 | 30.11 | 784 | 2.08 | 0.79 | 42.8 |
| 4/14/2015 17:25:53 | 30.84 | 30.44 | 784 | 2.08 | 0.78 | 42.8 |
| 4/14/2015 17:25:54 | 31.17 | 30.77 | 779 | 2.08 | 0.79 | 42.6 |
| 4/14/2015 17:25:54 | 31.50 | 31.10 | 784 | 2.08 | 0.78 | 42.9 |
| 4/14/2015 17:25:55 | 31.82 | 31.42 | 784 | 2.08 | 0.78 | 42.9 |
| 4/14/2015 17:25:55 | 32.15 | 31.75 | 790 | 2.08 | 0.78 | 43.2 |
| 4/14/2015 17:25:55 | 32.48 | 32.08 | 781 | 2.09 | 0.78 | 42.7 |
| 4/14/2015 17:25:56 | 32.81 | 32.41 | 776 | 2.02 | 0.77 | 42.4 |
| 4/14/2015 17:25:56 | 33.14 | 32.74 | 792 | 2.07 | 0.79 | 43.3 |
| 4/14/2015 17:25:57 | 33.46 | 33.06 | 795 | 2.07 | 0.78 | 43.5 |
| 4/14/2015 17:25:57 | 33.79 | 33.39 | 804 | 2.36 | 0.79 | 44.0 |
| 4/14/2015 17:26:04 | 34.12 | 33.72 | 64 | 2.09 | 0.77 | 3.5 |
| 4/14/2015 17:26:05 | 34.45 | 34.05 | 64 | 2.09 | 0.77 | 3.5 |
| 4/14/2015 17:26:05 | 34.78 | 34.38 | 224 | 2.08 | 0.78 | 12.2 |
| 4/14/2015 17:26:05 | 35.11 | 34.71 | 384 | 2.08 | 0.80 | 21.0 |
| 4/14/2015 17:26:06 | 35.43 | 35.03 | 546 | 2.08 | 0.82 | 29.8 |
| 4/14/2015 17:26:06 | 35.76 | 35.36 | 707 | 2.13 | 0.80 | 38.7 |
| 4/14/2015 17:26:07 | 36.09 | 35.69 | 808 | 2.08 | 0.79 | 44.2 |
| 4/14/2015 17:26:07 | 36.42 | 36.02 | 808 | 2.08 | 0.79 | 44.2 |
| 4/14/2015 17:26:07 | 36.75 | 36.35 | 808 | 2.09 | 0.77 | 44.2 |
| 4/14/2015 17:26:08 | 37.07 | 36.67 | 813 | 2.08 | 0.79 | 44.5 |
| 4/14/2015 17:26:08 | 37.40 | 37.00 | 811 | 2.07 | 0.78 | 44.4 |
| 4/14/2015 17:26:09 | 37.73 | 37.33 | 809 | 2.09 | 0.83 | 44.3 |
| 4/14/2015 17:26:09 | 38.06 | 37.66 | 809 | 2.08 | 0.78 | 44.3 |
| 4/14/2015 17:26:10 | 38.39 | 37.99 | 809 | 2.09 | 0.79 | 44.3 |
| 4/14/2015 17:26:10 | 38.71 | 38.31 | 809 | 2.09 | 0.79 | 44.3 |
| 4/14/2015 17:26:10 | 39.04 | 38.64 | 802 | 2.08 | 0.82 | 43.8 |
| 4/14/2015 17:26:11 | 39.37 | 38.97 | 807 | 2.09 | 0.78 | 44.1 |
| 4/14/2015 17:26:11 | 39.70 | 39.30 | 804 | 2.09 | 0.79 | 43.9 |
| 4/14/2015 17:26:12 | 40.03 | 39.63 | 801 | 2.12 | 0.97 | 43.8 |
| 4/14/2015 17:26:13 | 40.35 | 39.95 | 675 | 1.89 | 1.13 | 36.9 |
| 4/14/2015 17:26:21 | 40.68 | 40.28 | 37 | 2.19 | 1.43 | 2.0 |
| 4/14/2015 17:26:22 | 41.01 | 40.61 | 134 | 2.26 | 1.35 | 7.3 |
| 4/14/2015 17:27:19 | 41.34 | 40.94 | 0 | 2.09 | 0.89 | 0.0 |
| 4/14/2015 17:27:47 | 41.67 | 41.27 | 0 | 2.33 | 1.51 | 0.0 |
| 4/14/2015 17:28:06 | 41.99 | 41.59 | 0 | 2.33 | 1.39 | 0.0 |
| 4/14/2015 17:28:21 | 42.32 | 41.92 | 112 | 2.26 | 1.28 | 6.1 |
| 4/14/2015 17:28:22 | 42.65 | 42.25 | 188 | 2.23 | 1.14 | 10.3 |
| 4/14/2015 17:28:22 | 42.98 | 42.58 | 303 | 2.18 | 1.15 | 16.6 |
| 4/14/2015 17:28:51 | 43.31 | 42.91 | 0 | 2.18 | 1.25 | 0.0 |
| 4/14/2015 17:28:52 | 43.64 | 43.24 | 67 | 2.23 | 1.30 | 3.6 |
| 4/14/2015 17:28:53 | 43.96 | 43.56 | 241 | 2.25 | 1.11 | 13.2 |
| 4/14/2015 17:29:03 | 44.29 | 43.89 | 0 | 2.29 | 1.25 | 0.0 |
| 4/14/2015 17:29:04 | 44.62 | 44.22 | 133 | 2.27 | 1.17 | 7.3 |
| 4/14/2015 17:29:06 | 44.95 | 44.55 | 263 | 2.33 | 1.21 | 14.4 |
| 4/14/2015 17:29:07 | 45.28 | 44.88 | 266 | 2.30 | 1.16 | 14.6 |
| 4/14/2015 17:38:20 | 45.60 | 45.20 | 37 | 2.29 | 1.15 | 2.0 |
| 4/14/2015 17:38:22 | 45.93 | 45.53 | 160 | 2.36 | 1.12 | 8.7 |
| 4/14/2015 17:38:24 | 46.26 | 45.86 | 176 | 2.34 | 1.13 | 9.6 |
| 4/14/2015 17:38:26 | 46.59 | 46.19 | 190 | 2.36 | 1.27 | 10.4 |
| 4/14/2015 17:38:28 | 46.92 | 46.52 | 145 | 2.38 | 1.24 | 7.9 |
| 4/14/2015 17:38:32 | 47.24 | 46.84 | 101 | 2.36 | 1.22 | 5.5 |
| 4/14/2015 17:38:34 | 47.43 | 47.03 | 101 | 2.34 | 1.33 | 5.5 |

## CCB-348-7 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 17:24:31

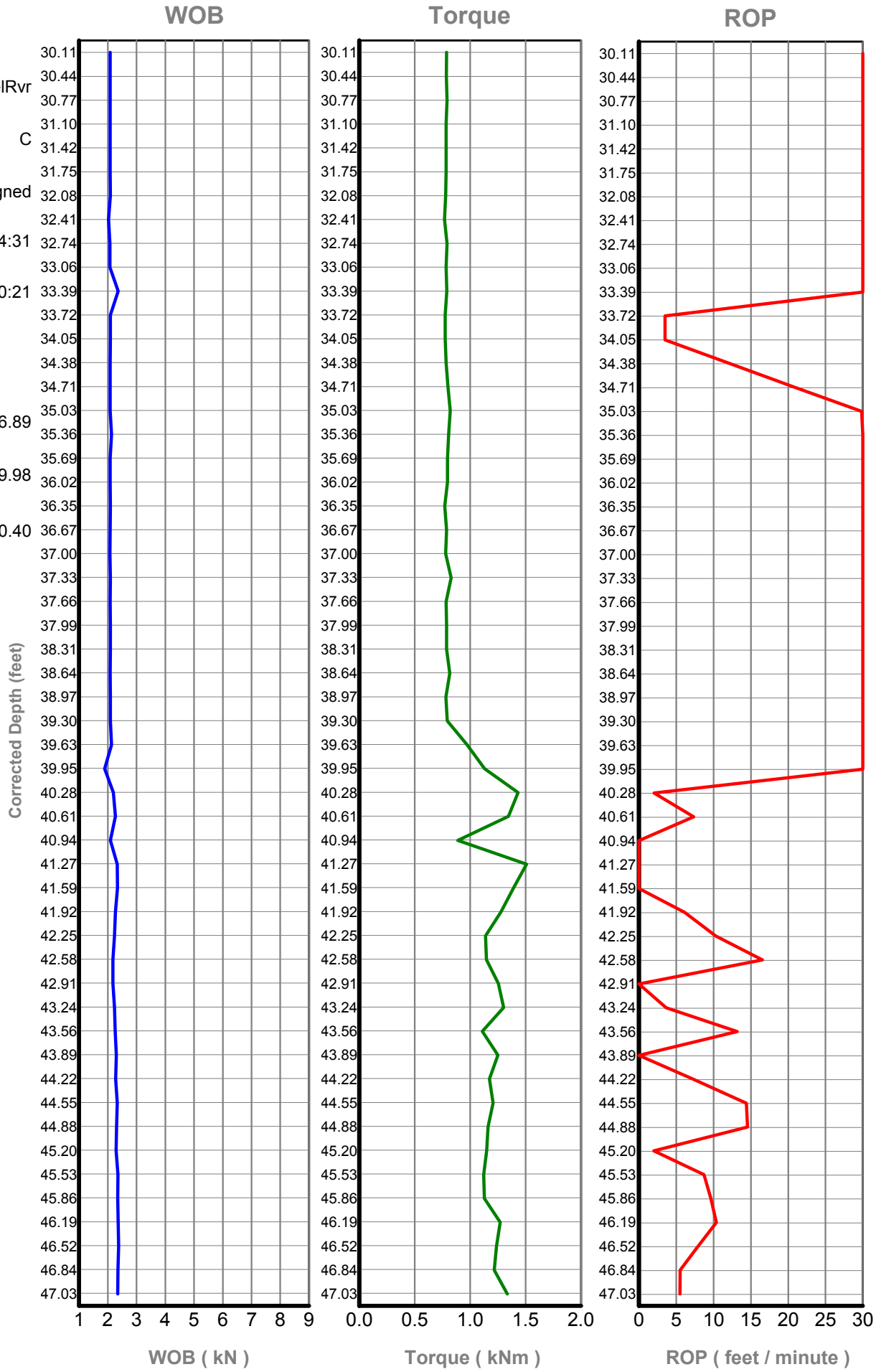
**End Date:**
4/14/2015 17:40:21

**Operator Note:**
'0.4 -0.54 c Auto Complete'

**Northing:**
371,166.89

**Easting:**
258,169.98

**Tide (feet):**
0.40



## Hole: CCB-348-8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 17:42:47 | 31.17 | 30.27 | 804 | 2.10 | 0.76 | 44.0 |
| 4/14/2015 17:42:48 | 31.50 | 30.60 | 809 | 2.10 | 0.76 | 44.3 |
| 4/14/2015 17:42:48 | 31.82 | 30.92 | 809 | 2.08 | 0.76 | 44.3 |
| 4/14/2015 17:42:49 | 32.15 | 31.25 | 809 | 2.08 | 0.76 | 44.3 |
| 4/14/2015 17:42:49 | 32.48 | 31.58 | 814 | 2.09 | 0.76 | 44.5 |
| 4/14/2015 17:42:49 | 32.81 | 31.91 | 809 | 2.09 | 0.76 | 44.3 |
| 4/14/2015 17:42:50 | 33.14 | 32.24 | 807 | 2.09 | 0.76 | 44.1 |
| 4/14/2015 17:42:50 | 33.46 | 32.56 | 804 | 2.09 | 0.75 | 43.9 |
| 4/14/2015 17:42:51 | 33.79 | 32.89 | 804 | 2.11 | 0.76 | 43.9 |
| 4/14/2015 17:42:52 | 34.12 | 33.22 | 804 | 2.10 | 0.76 | 43.9 |
| 4/14/2015 17:42:52 | 34.45 | 33.55 | 804 | 2.10 | 0.76 | 43.9 |
| 4/14/2015 17:42:52 | 34.78 | 33.88 | 801 | 2.10 | 0.75 | 43.8 |
| 4/14/2015 17:42:53 | 35.11 | 34.21 | 801 | 2.08 | 0.75 | 43.8 |
| 4/14/2015 17:42:53 | 35.43 | 34.53 | 804 | 2.09 | 0.75 | 43.9 |
| 4/14/2015 17:42:54 | 35.76 | 34.86 | 801 | 2.10 | 0.75 | 43.8 |
| 4/14/2015 17:42:54 | 36.09 | 35.19 | 798 | 2.09 | 0.75 | 43.6 |
| 4/14/2015 17:42:55 | 36.42 | 35.52 | 798 | 2.10 | 0.75 | 43.6 |
| 4/14/2015 17:42:55 | 36.75 | 35.85 | 798 | 2.10 | 0.75 | 43.6 |
| 4/14/2015 17:42:55 | 37.07 | 36.17 | 804 | 2.10 | 0.75 | 43.9 |
| 4/14/2015 17:42:56 | 37.40 | 36.50 | 801 | 2.09 | 0.75 | 43.8 |
| 4/14/2015 17:42:56 | 37.73 | 36.83 | 804 | 2.10 | 0.75 | 43.9 |
| 4/14/2015 17:42:57 | 38.06 | 37.16 | 799 | 2.09 | 0.75 | 43.7 |
| 4/14/2015 17:42:57 | 38.39 | 37.49 | 806 | 2.10 | 0.75 | 44.1 |
| 4/14/2015 17:42:58 | 38.71 | 37.81 | 804 | 2.10 | 0.74 | 43.9 |
| 4/14/2015 17:42:58 | 39.04 | 38.14 | 804 | 2.10 | 0.74 | 43.9 |
| 4/14/2015 17:42:58 | 39.37 | 38.47 | 804 | 2.10 | 0.75 | 43.9 |
| 4/14/2015 17:42:59 | 39.70 | 38.80 | 796 | 2.10 | 0.78 | 43.5 |
| 4/14/2015 17:42:59 | 40.03 | 39.13 | 804 | 2.10 | 0.74 | 44.0 |
| 4/14/2015 17:43:00 | 40.35 | 39.45 | 801 | 2.10 | 0.75 | 43.8 |
| 4/14/2015 17:43:00 | 40.68 | 39.78 | 798 | 2.10 | 0.77 | 43.6 |
| 4/14/2015 17:43:01 | 41.01 | 40.11 | 794 | 2.10 | 0.76 | 43.4 |
| 4/14/2015 17:43:02 | 41.34 | 40.44 | 794 | 2.10 | 0.76 | 43.4 |
| 4/14/2015 17:43:02 | 41.67 | 40.77 | 798 | 2.10 | 0.77 | 43.6 |
| 4/14/2015 17:43:02 | 41.99 | 41.09 | 795 | 2.12 | 0.91 | 43.5 |
| 4/14/2015 17:43:32 | 42.32 | 41.42 | 6 | 2.14 | 0.91 | 0.3 |
| 4/14/2015 17:43:33 | 42.65 | 41.75 | 176 | 2.10 | 1.44 | 9.6 |
| 4/14/2015 17:43:34 | 42.98 | 42.08 | 296 | 2.17 | 1.28 | 16.2 |
| 4/14/2015 17:43:52 | 43.31 | 42.41 | 77 | 2.22 | 1.18 | 4.2 |
| 4/14/2015 17:43:57 | 43.64 | 42.74 | 0 | 2.10 | 0.84 | 0.0 |
| 4/14/2015 17:43:58 | 43.96 | 43.06 | 122 | 2.21 | 1.18 | 6.7 |
| 4/14/2015 17:44:27 | 44.29 | 43.39 | 27 | 2.29 | 1.27 | 1.5 |
| 4/14/2015 17:45:08 | 44.62 | 43.72 | 0 | 2.25 | 1.13 | 0.0 |
| 4/14/2015 17:46:01 | 44.95 | 44.05 | 9 | 2.22 | 1.45 | 0.5 |
| 4/14/2015 17:46:09 | 45.28 | 44.38 | 0 | 2.22 | 1.25 | 0.0 |
| 4/14/2015 17:46:10 | 45.60 | 44.70 | 99 | 2.30 | 1.31 | 5.4 |
| 4/14/2015 17:46:32 | 45.93 | 45.03 | 53 | 2.35 | 1.16 | 2.9 |
| 4/14/2015 17:46:53 | 46.26 | 45.36 | 0 | 2.10 | 0.74 | 0.0 |
| 4/14/2015 17:46:54 | 46.59 | 45.69 | 124 | 2.35 | 1.15 | 6.8 |
| 4/14/2015 17:47:03 | 46.92 | 46.02 | 81 | 2.33 | 1.21 | 4.4 |
| 4/14/2015 17:47:03 | 46.99 | 46.09 | 124 | 2.29 | 1.19 | 6.8 |

## CCB-348-8 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 17:41:13

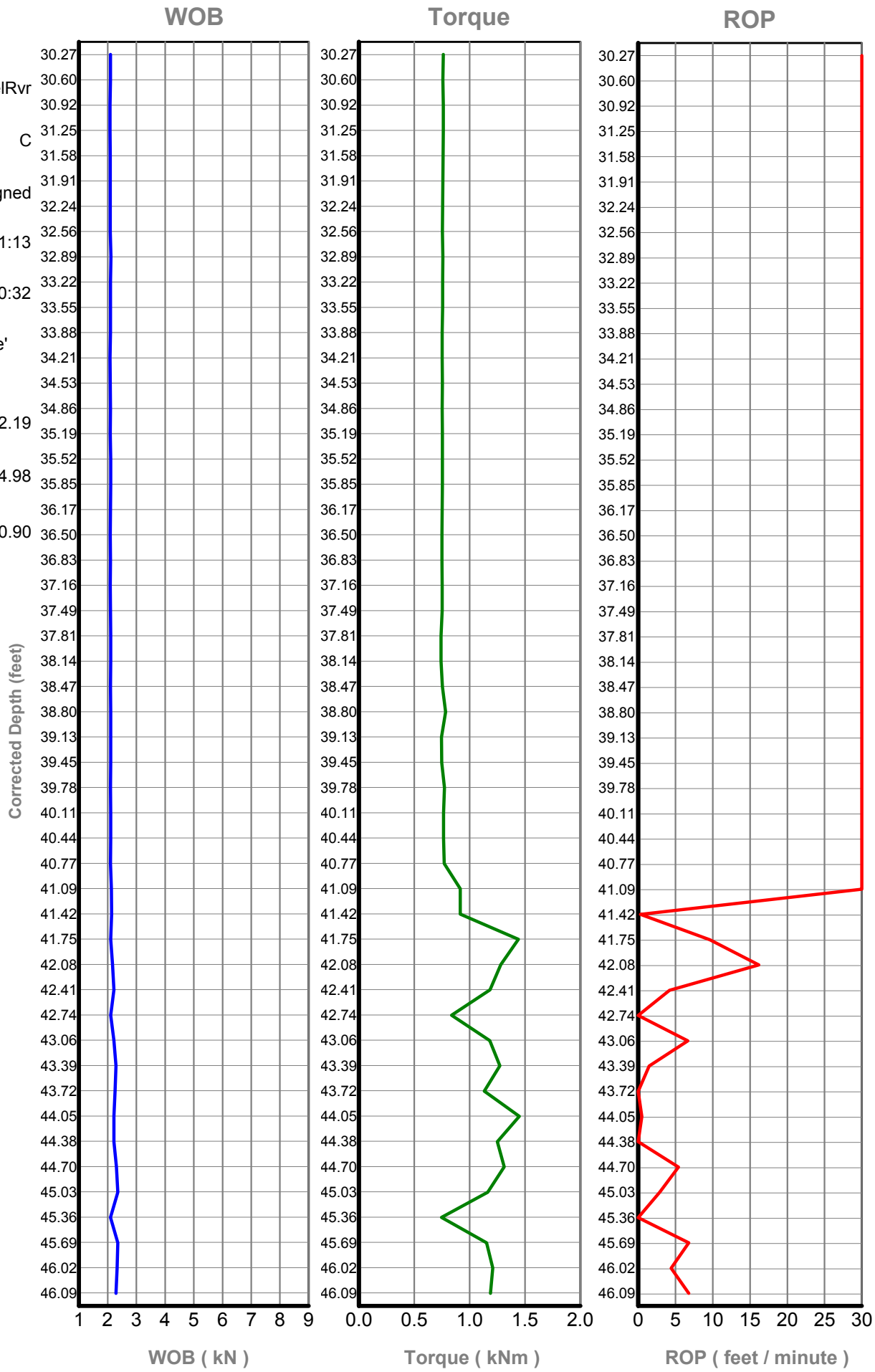
**End Date:**
4/14/2015 17:50:32

**Operator Note:**
'0.9 0.7 c Auto Complete'

**Northing:**
371,162.19

**Easting:**
258,174.98

**Tide (feet):**
0.90



## Hole: CCB-348-9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 14:41:48 | 31.82 | 30.22 | 820 | 2.10 | 0.82 | 44.8 |
| 4/14/2015 14:41:48 | 32.15 | 30.55 | 820 | 2.12 | 0.81 | 44.8 |
| 4/14/2015 14:41:49 | 32.48 | 30.88 | 831 | 2.11 | 0.81 | 45.4 |
| 4/14/2015 14:41:49 | 32.81 | 31.21 | 831 | 2.11 | 0.81 | 45.4 |
| 4/14/2015 14:41:49 | 33.14 | 31.54 | 831 | 2.10 | 0.81 | 45.4 |
| 4/14/2015 14:41:50 | 33.46 | 31.86 | 846 | 2.12 | 0.81 | 46.3 |
| 4/14/2015 14:41:50 | 33.79 | 32.19 | 816 | 2.12 | 0.80 | 44.6 |
| 4/14/2015 14:41:51 | 34.12 | 32.52 | 816 | 2.11 | 0.80 | 44.6 |
| 4/14/2015 14:41:51 | 34.45 | 32.85 | 829 | 2.12 | 0.80 | 45.3 |
| 4/14/2015 14:41:52 | 34.78 | 33.18 | 829 | 2.12 | 0.80 | 45.3 |
| 4/14/2015 14:41:52 | 35.11 | 33.51 | 838 | 2.11 | 0.80 | 45.8 |
| 4/14/2015 14:41:53 | 35.43 | 33.83 | 833 | 2.12 | 0.80 | 45.6 |
| 4/14/2015 14:41:53 | 35.76 | 34.16 | 821 | 2.11 | 0.80 | 44.9 |
| 4/14/2015 14:41:54 | 36.09 | 34.49 | 830 | 2.11 | 0.80 | 45.4 |
| 4/14/2015 14:41:54 | 36.42 | 34.82 | 830 | 2.11 | 0.79 | 45.4 |
| 4/14/2015 14:41:55 | 36.75 | 35.15 | 830 | 2.11 | 0.79 | 45.4 |
| 4/14/2015 14:41:55 | 37.07 | 35.47 | 829 | 2.11 | 0.80 | 45.3 |
| 4/14/2015 14:41:55 | 37.40 | 35.80 | 824 | 2.10 | 0.79 | 45.0 |
| 4/14/2015 14:41:56 | 37.73 | 36.13 | 829 | 2.12 | 0.80 | 45.3 |
| 4/14/2015 14:41:56 | 38.06 | 36.46 | 834 | 2.11 | 0.79 | 45.6 |
| 4/14/2015 14:41:57 | 38.39 | 36.79 | 834 | 2.11 | 0.79 | 45.6 |
| 4/14/2015 14:41:57 | 38.71 | 37.11 | 829 | 2.12 | 0.79 | 45.3 |
| 4/14/2015 14:41:57 | 39.04 | 37.44 | 829 | 2.10 | 0.79 | 45.3 |
| 4/14/2015 14:41:58 | 39.37 | 37.77 | 823 | 2.11 | 0.79 | 45.0 |
| 4/14/2015 14:41:58 | 39.70 | 38.10 | 818 | 2.12 | 0.79 | 44.7 |
| 4/14/2015 14:41:59 | 40.03 | 38.43 | 827 | 2.12 | 0.80 | 45.2 |
| 4/14/2015 14:41:59 | 40.35 | 38.75 | 827 | 2.12 | 0.80 | 45.2 |
| 4/14/2015 14:41:59 | 40.68 | 39.08 | 822 | 2.12 | 0.81 | 44.9 |
| 4/14/2015 14:42:00 | 41.01 | 39.41 | 846 | 2.11 | 0.79 | 46.2 |
| 4/14/2015 14:42:00 | 41.34 | 39.74 | 829 | 2.11 | 0.80 | 45.3 |
| 4/14/2015 14:42:01 | 41.67 | 40.07 | 829 | 2.12 | 0.80 | 45.3 |
| 4/14/2015 14:42:01 | 41.99 | 40.39 | 838 | 2.12 | 0.84 | 45.8 |
| 4/14/2015 14:42:02 | 42.32 | 40.72 | 838 | 2.12 | 0.84 | 45.8 |
| 4/14/2015 14:42:02 | 42.65 | 41.05 | 836 | 2.12 | 0.83 | 45.7 |
| 4/14/2015 14:42:03 | 42.98 | 41.38 | 828 | 2.11 | 0.81 | 45.3 |
| 4/14/2015 14:42:03 | 43.31 | 41.71 | 823 | 2.12 | 0.80 | 45.0 |
| 4/14/2015 14:42:04 | 43.64 | 42.04 | 822 | 2.12 | 0.84 | 45.0 |
| 4/14/2015 14:42:04 | 43.96 | 42.36 | 822 | 2.12 | 0.84 | 45.0 |
| 4/14/2015 14:42:04 | 44.29 | 42.69 | 818 | 2.12 | 0.83 | 44.7 |
| 4/14/2015 14:42:05 | 44.62 | 43.02 | 801 | 2.12 | 0.83 | 43.8 |
| 4/14/2015 14:42:05 | 44.95 | 43.35 | 801 | 2.12 | 0.82 | 43.8 |
| 4/14/2015 14:42:06 | 45.28 | 43.68 | 814 | 2.12 | 0.82 | 44.5 |
| 4/14/2015 14:42:06 | 45.60 | 44.00 | 808 | 2.11 | 1.05 | 44.2 |
| 4/14/2015 14:42:07 | 45.93 | 44.33 | 783 | 2.23 | 1.11 | 42.8 |
| 4/14/2015 14:42:08 | 46.26 | 44.66 | 690 | 2.27 | 1.14 | 37.7 |
| 4/14/2015 14:42:14 | 46.59 | 44.99 | 32 | 2.25 | 1.06 | 1.8 |
| 4/14/2015 14:42:16 | 46.92 | 45.32 | 216 | 2.38 | 1.19 | 11.8 |
| 4/14/2015 14:42:18 | 47.24 | 45.64 | 196 | 2.31 | 1.20 | 10.7 |
| 4/14/2015 14:42:19 | 47.57 | 45.97 | 204 | 2.36 | 1.14 | 11.2 |
| 4/14/2015 14:42:22 | 47.90 | 46.30 | 153 | 2.37 | 1.22 | 8.4 |
| 4/14/2015 14:42:24 | 48.23 | 46.63 | 145 | 2.40 | 1.27 | 7.9 |
| 4/14/2015 14:42:28 | 48.56 | 46.96 | 100 | 2.40 | 1.33 | 5.4 |
| 4/14/2015 14:42:30 | 48.88 | 47.28 | 123 | 2.40 | 1.27 | 6.7 |
| 4/14/2015 14:42:34 | 49.21 | 47.61 | 98 | 2.39 | 1.24 | 5.4 |
| 4/14/2015 14:42:39 | 49.54 | 47.94 | 63 | 2.42 | 1.31 | 3.5 |
| 4/14/2015 14:42:45 | 49.87 | 48.27 | 64 | 2.42 | 1.37 | 3.5 |
| 4/14/2015 14:42:56 | 50.20 | 48.60 | 63 | 2.40 | 1.27 | 3.4 |
| 4/14/2015 14:43:01 | 50.53 | 48.93 | 72 | 2.40 | 1.31 | 4.0 |
| 4/14/2015 14:43:06 | 50.85 | 49.25 | 84 | 2.40 | 1.22 | 4.6 |
| 4/14/2015 14:43:11 | 51.18 | 49.58 | 55 | 2.41 | 1.26 | 3.0 |
| 4/14/2015 14:43:17 | 51.51 | 49.91 | 64 | 2.44 | 1.42 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 14:43:23 | 51.84 | 50.24 | 61 | 2.40 | 1.36 | 3.3 |
| 4/14/2015 | 14:43:37 | 52.17 | 50.57 | 6 | 2.38 | 1.50 | 0.3 |
| 4/14/2015 | 14:43:47 | 52.49 | 50.89 | 60 | 2.42 | 1.30 | 3.3 |
| 4/14/2015 | 14:43:52 | 52.82 | 51.22 | 75 | 2.40 | 1.49 | 4.1 |
| 4/14/2015 | 14:44:00 | 53.15 | 51.55 | 75 | 2.40 | 1.51 | 4.1 |
| 4/14/2015 | 14:44:17 | 53.48 | 51.88 | 20 | 2.42 | 1.51 | 1.1 |
| 4/14/2015 | 14:53:24 | 53.81 | 52.21 | 63 | 2.33 | 1.26 | 3.5 |
| 4/14/2015 | 14:53:29 | 54.13 | 52.53 | 77 | 2.36 | 1.21 | 4.2 |
| 4/14/2015 | 14:53:34 | 54.46 | 52.86 | 66 | 2.38 | 1.39 | 3.6 |
| 4/14/2015 | 14:53:53 | 54.79 | 53.19 | 8 | 2.36 | 1.35 | 0.5 |
| 4/14/2015 | 14:54:38 | 55.12 | 53.52 | 48 | 2.36 | 1.29 | 2.6 |
| 4/14/2015 | 14:54:47 | 55.45 | 53.85 | 25 | 2.35 | 1.14 | 1.4 |
| 4/14/2015 | 14:54:52 | 55.77 | 54.17 | 60 | 2.44 | 1.28 | 3.3 |
| 4/14/2015 | 14:54:59 | 56.10 | 54.50 | 54 | 2.40 | 1.28 | 3.0 |
| 4/14/2015 | 14:55:06 | 56.43 | 54.83 | 56 | 2.38 | 1.11 | 3.1 |
| 4/14/2015 | 14:55:12 | 56.72 | 55.12 | 52 | 2.06 | 1.05 | 2.9 |

## CCB-348-9 - Summary

**Pattern Number:**
AreaK_CB348-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 14:36:39

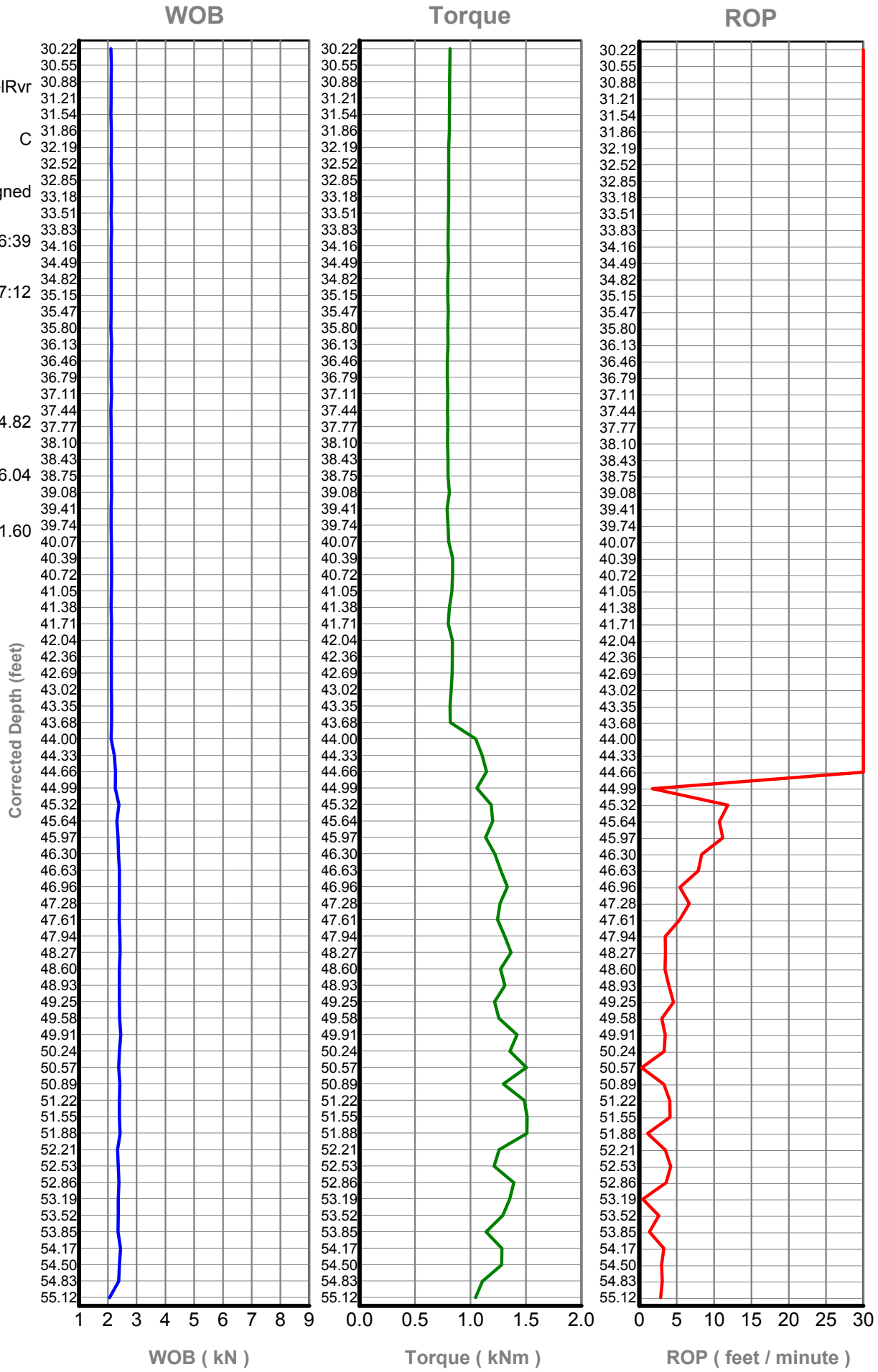
**End Date:**
4/14/2015 14:57:12

**Operator Note:**
'1.6 Auto Complete'

**Northing:**
371,154.82

**Easting:**
258,176.04

**Tide (feet):**
1.60



## Hole: D1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 1:29:48 | 36.75 | 30.25 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:29:49 | 37.07 | 30.57 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:29:49 | 37.40 | 30.90 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:49 | 37.73 | 31.23 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 1:29:50 | 38.06 | 31.56 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 1:29:50 | 38.39 | 31.89 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/19/2015 1:29:51 | 38.71 | 32.21 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 1:29:51 | 39.04 | 32.54 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 1:29:51 | 39.37 | 32.87 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:52 | 39.70 | 33.20 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 1:29:52 | 40.03 | 33.53 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 1:29:52 | 40.35 | 33.85 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:53 | 40.68 | 34.18 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:53 | 41.01 | 34.51 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/19/2015 1:29:53 | 41.34 | 34.84 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:54 | 41.67 | 35.17 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:54 | 41.99 | 35.49 | 1,080 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:54 | 42.32 | 35.82 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/19/2015 1:29:55 | 42.65 | 36.15 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/19/2015 1:29:55 | 42.98 | 36.48 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 1:29:55 | 43.31 | 36.81 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:56 | 43.64 | 37.14 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:29:56 | 43.96 | 37.46 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 1:29:56 | 44.29 | 37.79 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 1:29:56 | 44.62 | 38.12 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 1:29:57 | 44.95 | 38.45 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/19/2015 1:29:57 | 45.28 | 38.78 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/19/2015 1:29:57 | 45.60 | 39.10 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/19/2015 1:29:58 | 45.93 | 39.43 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/19/2015 1:29:58 | 46.26 | 39.76 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/19/2015 1:29:58 | 46.59 | 40.09 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/19/2015 1:29:59 | 46.92 | 40.42 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/19/2015 1:29:59 | 47.24 | 40.74 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/19/2015 1:29:59 | 47.57 | 41.07 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:30:00 | 47.90 | 41.40 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:30:00 | 48.23 | 41.73 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 1:30:00 | 48.56 | 42.06 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:30:01 | 48.88 | 42.38 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:30:01 | 49.21 | 42.71 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 1:30:02 | 49.54 | 43.04 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 1:30:33 | 49.87 | 43.37 | 32 | 0.24 | 0.37 | 1.8 |
| 4/19/2015 1:30:40 | 50.20 | 43.70 | 0 | 0.24 | 0.37 | 0.0 |
| 4/19/2015 1:30:41 | 50.53 | 44.03 | 143 | 0.24 | 0.37 | 7.8 |
| 4/19/2015 1:30:41 | 50.85 | 44.35 | 260 | 0.24 | 0.37 | 14.2 |
| 4/19/2015 1:30:46 | 51.18 | 44.68 | 12 | 0.24 | 0.37 | 0.6 |
| 4/19/2015 1:30:47 | 51.51 | 45.01 | 109 | 0.24 | 0.37 | 6.0 |
| 4/19/2015 1:30:48 | 51.84 | 45.34 | 201 | 0.24 | 0.37 | 11.0 |
| 4/19/2015 1:30:49 | 52.17 | 45.67 | 386 | 0.24 | 0.37 | 21.1 |
| 4/19/2015 1:30:49 | 52.49 | 45.99 | 468 | 0.24 | 0.37 | 25.6 |
| 4/19/2015 1:30:50 | 52.82 | 46.32 | 506 | 0.24 | 0.37 | 27.7 |
| 4/19/2015 1:30:50 | 53.15 | 46.65 | 543 | 0.24 | 0.37 | 29.7 |
| 4/19/2015 1:30:51 | 53.48 | 46.98 | 596 | 0.24 | 0.37 | 32.6 |
| 4/19/2015 1:30:51 | 53.81 | 47.31 | 637 | 0.24 | 0.37 | 34.8 |
| 4/19/2015 1:30:52 | 54.13 | 47.63 | 657 | 0.24 | 0.37 | 35.9 |
| 4/19/2015 1:30:53 | 54.46 | 47.96 | 608 | 0.24 | 0.37 | 33.3 |
| 4/19/2015 1:30:53 | 54.79 | 48.29 | 570 | 0.24 | 0.37 | 31.2 |
| 4/19/2015 1:30:54 | 55.12 | 48.62 | 504 | 0.24 | 0.37 | 27.5 |
| 4/19/2015 1:30:55 | 55.45 | 48.95 | 500 | 0.24 | 0.37 | 27.4 |
| 4/19/2015 1:30:55 | 55.77 | 49.27 | 524 | 0.24 | 0.37 | 28.6 |
| 4/19/2015 1:30:56 | 56.10 | 49.60 | 521 | 0.24 | 0.37 | 28.5 |
| 4/19/2015 1:30:57 | 56.43 | 49.93 | 512 | 0.24 | 0.37 | 28.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 1:30:57 | 56.76 | 50.26 | 521 | 0.24 | 0.37 | 28.5 |
| 4/19/2015 | 1:30:59 | 57.09 | 50.59 | 413 | 0.24 | 0.37 | 22.6 |
| 4/19/2015 | 1:31:02 | 57.41 | 50.91 | 138 | 0.24 | 0.37 | 7.6 |
| 4/19/2015 | 1:31:05 | 57.74 | 51.24 | 93 | 0.24 | 0.37 | 5.1 |
| 4/19/2015 | 1:31:10 | 58.07 | 51.57 | 76 | 0.24 | 0.37 | 4.1 |
| 4/19/2015 | 1:31:19 | 58.40 | 51.90 | 12 | 0.24 | 0.37 | 0.6 |
| 4/19/2015 | 1:50:07 | 58.62 | 52.12 | 9 | 0.24 | 0.37 | 0.5 |

## D1 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 1:27:49

**End Date:**
4/19/2015 1:54:47

**Operator Note:**
'6.5 6.65 b Auto Complete'

**Northing:**
369,886.16

**Easting:**
255,006.51

**Tide (feet):**
6.50



## Hole: D10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 6:21:17 | 31.50 | 30.10 | 931 | 0.22 | 0.34 | 50.9 |
| 4/18/2015 6:21:17 | 31.82 | 30.42 | 937 | 0.22 | 0.34 | 51.2 |
| 4/18/2015 6:21:18 | 32.15 | 30.75 | 937 | 0.22 | 0.34 | 51.2 |
| 4/18/2015 6:21:18 | 32.48 | 31.08 | 931 | -0.07 | 0.35 | 50.9 |
| 4/18/2015 6:21:18 | 32.81 | 31.41 | 928 | 0.22 | 0.34 | 50.7 |
| 4/18/2015 6:21:19 | 33.14 | 31.74 | 925 | 0.22 | 0.35 | 50.6 |
| 4/18/2015 6:21:19 | 33.46 | 32.06 | 925 | 0.22 | 0.35 | 50.6 |
| 4/18/2015 6:21:19 | 33.79 | 32.39 | 931 | 0.22 | 0.35 | 50.9 |
| 4/18/2015 6:21:20 | 34.12 | 32.72 | 931 | 0.22 | 0.34 | 50.9 |
| 4/18/2015 6:21:20 | 34.45 | 33.05 | 928 | 0.21 | 0.35 | 50.7 |
| 4/18/2015 6:21:21 | 34.78 | 33.38 | 928 | 0.21 | 0.35 | 50.7 |
| 4/18/2015 6:21:21 | 35.11 | 33.71 | 922 | 0.21 | 0.35 | 50.4 |
| 4/18/2015 6:21:22 | 35.43 | 34.03 | 914 | 0.21 | 0.35 | 50.0 |
| 4/18/2015 6:21:22 | 35.76 | 34.36 | 911 | 0.22 | 0.35 | 49.8 |
| 4/18/2015 6:21:23 | 36.09 | 34.69 | 911 | 0.22 | 0.35 | 49.8 |
| 4/18/2015 6:21:23 | 36.42 | 35.02 | 911 | 0.19 | 0.39 | 49.8 |
| 4/18/2015 6:22:04 | 36.75 | 35.35 | 49 | 4.23 | 0.43 | 2.7 |
| 4/18/2015 6:22:11 | 37.07 | 35.67 | 51 | 4.02 | 0.42 | 2.8 |
| 4/18/2015 6:22:19 | 37.40 | 36.00 | 28 | 4.32 | 0.43 | 1.5 |
| 4/18/2015 6:22:22 | 37.53 | 36.13 | 47 | 4.09 | 0.43 | 2.6 |

## D10 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 6:16:57

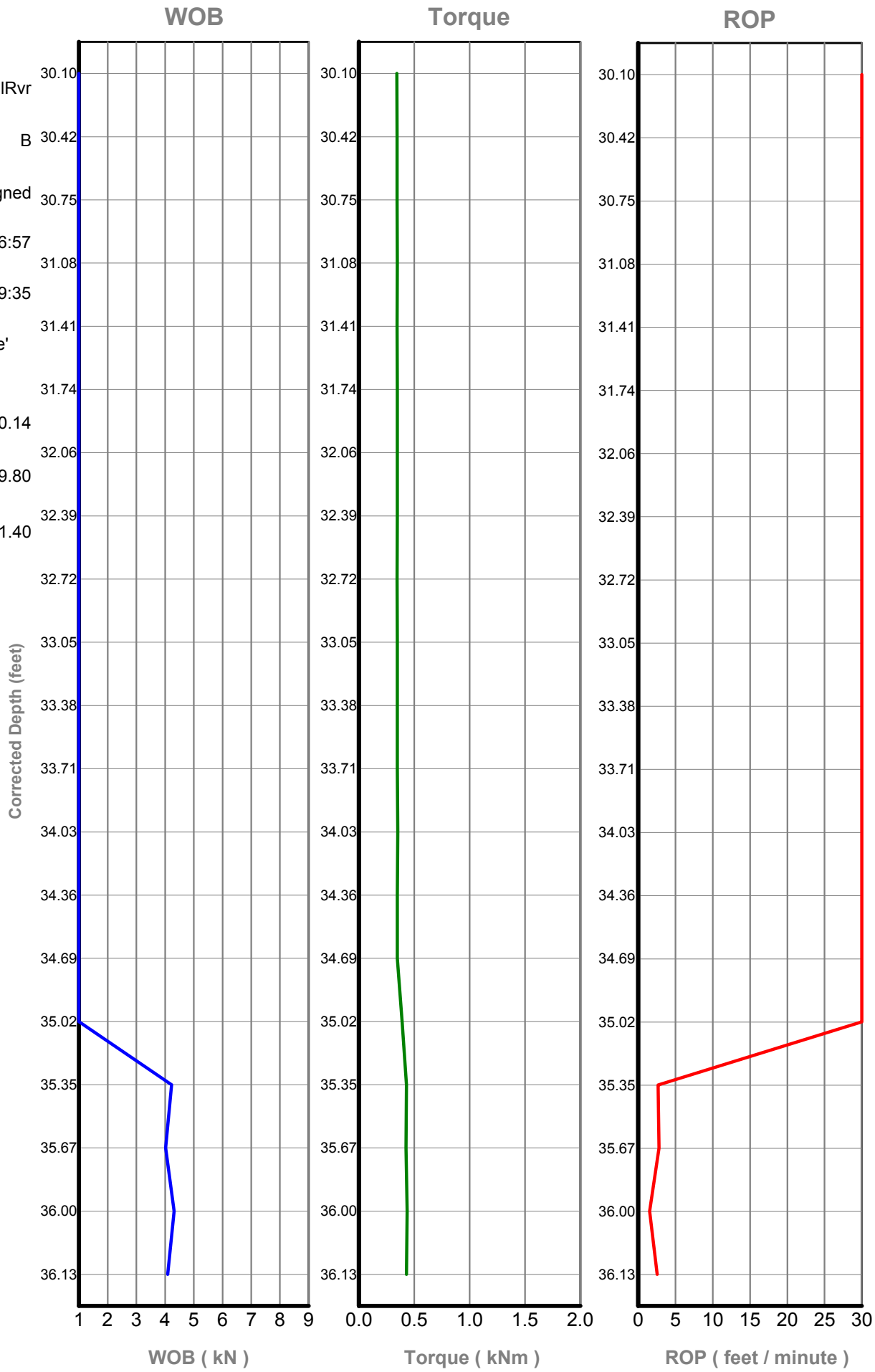
**End Date:**
4/18/2015 6:29:35

**Operator Note:**
'1.4 2.5 b Auto Complete'

**Northing:**
370,180.14

**Easting:**
255,619.80

**Tide (feet):**
1.40



## Hole: D1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 15:27:53 | 36.09 | 30.29 | 1,030 | 0.28 | 0.32 | 56.3 |
| 4/19/2015 15:27:54 | 36.42 | 30.62 | 1,030 | 0.28 | 0.32 | 56.3 |
| 4/19/2015 15:27:54 | 36.75 | 30.95 | 1,014 | 0.28 | 0.31 | 55.5 |
| 4/19/2015 15:27:55 | 37.07 | 31.27 | 1,028 | 0.28 | 0.32 | 56.2 |
| 4/19/2015 15:27:55 | 37.40 | 31.60 | 1,028 | 0.28 | 0.32 | 56.2 |
| 4/19/2015 15:27:55 | 37.73 | 31.93 | 1,023 | 0.28 | 0.32 | 56.0 |
| 4/19/2015 15:27:56 | 38.06 | 32.26 | 1,018 | 0.29 | 0.32 | 55.6 |
| 4/19/2015 15:27:56 | 38.39 | 32.59 | 1,018 | 0.29 | 0.32 | 55.6 |
| 4/19/2015 15:27:56 | 38.71 | 32.91 | 1,026 | 0.28 | 0.33 | 56.1 |
| 4/19/2015 15:27:57 | 39.04 | 33.24 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:27:57 | 39.37 | 33.57 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:27:57 | 39.70 | 33.90 | 1,038 | 0.28 | 0.32 | 56.8 |
| 4/19/2015 15:27:58 | 40.03 | 34.23 | 1,038 | 0.28 | 0.32 | 56.8 |
| 4/19/2015 15:27:58 | 40.35 | 34.55 | 1,035 | 0.29 | 0.34 | 56.6 |
| 4/19/2015 15:27:58 | 40.68 | 34.88 | 1,032 | 0.28 | 0.32 | 56.4 |
| 4/19/2015 15:27:59 | 41.01 | 35.21 | 1,023 | 0.29 | 0.33 | 55.9 |
| 4/19/2015 15:27:59 | 41.34 | 35.54 | 1,023 | 0.29 | 0.33 | 55.9 |
| 4/19/2015 15:27:59 | 41.67 | 35.87 | 1,026 | 0.29 | 0.32 | 56.1 |
| 4/19/2015 15:28:00 | 41.99 | 36.19 | 1,015 | 0.28 | 0.32 | 55.5 |
| 4/19/2015 15:28:00 | 42.32 | 36.52 | 1,015 | 0.28 | 0.32 | 55.5 |
| 4/19/2015 15:28:00 | 42.65 | 36.85 | 1,009 | 0.28 | 0.31 | 55.2 |
| 4/19/2015 15:28:01 | 42.98 | 37.18 | 1,012 | 0.27 | 0.32 | 55.3 |
| 4/19/2015 15:28:01 | 43.31 | 37.51 | 1,012 | 0.27 | 0.32 | 55.3 |
| 4/19/2015 15:28:01 | 43.64 | 37.84 | 1,017 | 0.27 | 0.32 | 55.6 |
| 4/19/2015 15:28:02 | 43.96 | 38.16 | 1,015 | 0.28 | 0.33 | 55.5 |
| 4/19/2015 15:28:02 | 44.29 | 38.49 | 1,015 | 0.28 | 0.33 | 55.5 |
| 4/19/2015 15:28:02 | 44.62 | 38.82 | 1,020 | 0.27 | 0.32 | 55.8 |
| 4/19/2015 15:28:03 | 44.95 | 39.15 | 1,020 | 0.28 | 0.32 | 55.8 |
| 4/19/2015 15:28:03 | 45.28 | 39.48 | 1,020 | 0.28 | 0.32 | 55.8 |
| 4/19/2015 15:28:04 | 45.60 | 39.80 | 1,029 | 0.28 | 0.31 | 56.3 |
| 4/19/2015 15:28:04 | 45.93 | 40.13 | 1,004 | 0.28 | 0.32 | 54.9 |
| 4/19/2015 15:28:04 | 46.26 | 40.46 | 1,004 | 0.28 | 0.32 | 54.9 |
| 4/19/2015 15:28:05 | 46.59 | 40.79 | 1,004 | 0.29 | 0.32 | 54.9 |
| 4/19/2015 15:28:05 | 46.92 | 41.12 | 1,009 | 0.28 | 0.33 | 55.2 |
| 4/19/2015 15:28:06 | 47.24 | 41.44 | 1,009 | 0.28 | 0.33 | 55.2 |
| 4/19/2015 15:28:06 | 47.57 | 41.77 | 1,018 | 0.28 | 0.32 | 55.7 |
| 4/19/2015 15:28:06 | 47.90 | 42.10 | 1,024 | 0.27 | 0.32 | 56.0 |
| 4/19/2015 15:28:07 | 48.23 | 42.43 | 1,024 | 0.27 | 0.32 | 56.0 |
| 4/19/2015 15:28:07 | 48.56 | 42.76 | 1,021 | 0.28 | 0.33 | 55.8 |
| 4/19/2015 15:28:07 | 48.88 | 43.08 | 1,018 | 0.29 | 0.33 | 55.7 |
| 4/19/2015 15:28:08 | 49.21 | 43.41 | 1,018 | 0.29 | 0.33 | 55.7 |
| 4/19/2015 15:28:08 | 49.54 | 43.74 | 1,002 | 0.29 | 0.33 | 54.8 |
| 4/19/2015 15:28:08 | 49.87 | 44.07 | 972 | 0.27 | 0.34 | 53.2 |
| 4/19/2015 15:28:30 | 50.20 | 44.40 | 9 | 4.47 | 0.41 | 0.5 |
| 4/19/2015 15:28:31 | 50.53 | 44.73 | 126 | 3.27 | 0.35 | 6.9 |
| 4/19/2015 15:28:32 | 50.85 | 45.05 | 215 | 3.29 | 0.37 | 11.8 |
| 4/19/2015 15:28:43 | 51.18 | 45.38 | 0 | 2.88 | 0.36 | 0.0 |
| 4/19/2015 15:28:44 | 51.51 | 45.71 | 182 | 3.26 | 0.39 | 10.0 |
| 4/19/2015 15:28:54 | 51.84 | 46.04 | 79 | 2.78 | 0.40 | 4.3 |
| 4/19/2015 15:29:00 | 52.17 | 46.37 | 65 | 2.99 | 0.41 | 3.5 |
| 4/19/2015 15:29:04 | 52.49 | 46.69 | 81 | 3.13 | 0.41 | 4.5 |
| 4/19/2015 15:29:08 | 52.82 | 47.02 | 103 | 3.97 | 0.40 | 5.6 |
| 4/19/2015 15:29:13 | 53.15 | 47.35 | 72 | 3.75 | 0.41 | 4.0 |
| 4/19/2015 15:29:18 | 53.48 | 47.68 | 58 | 3.59 | 0.41 | 3.2 |
| 4/19/2015 15:29:24 | 53.81 | 48.01 | 57 | 3.31 | 0.40 | 3.1 |
| 4/19/2015 15:29:31 | 54.13 | 48.33 | 55 | 3.16 | 0.41 | 3.0 |
| 4/19/2015 15:29:36 | 54.46 | 48.66 | 71 | 4.54 | 0.40 | 3.9 |
| 4/19/2015 15:29:42 | 54.79 | 48.99 | 53 | 4.12 | 0.40 | 2.9 |
| 4/19/2015 15:29:46 | 54.99 | 49.19 | 55 | 3.21 | 0.41 | 3.0 |

## D1000 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 15:26:03

**End Date:**
4/19/2015 15:31:33

**Operator Note:**
'5.8 6.0 b Auto Complete'

**Northing:**
370,195.84

**Easting:**
255,851.88

**Tide (feet):**
5.80



## Hole: D1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 15:35:06 | 35.76 | 30.06 | 1,026 | 0.34 | 0.33 | 56.1 |
| 4/19/2015 15:35:06 | 36.09 | 30.39 | 1,037 | 0.29 | 0.34 | 56.7 |
| 4/19/2015 15:35:07 | 36.42 | 30.72 | 1,023 | 0.29 | 0.33 | 56.0 |
| 4/19/2015 15:35:07 | 36.75 | 31.05 | 1,023 | 0.29 | 0.33 | 56.0 |
| 4/19/2015 15:35:07 | 37.07 | 31.37 | 1,021 | 0.29 | 0.33 | 55.8 |
| 4/19/2015 15:35:08 | 37.40 | 31.70 | 1,023 | 0.29 | 0.33 | 56.0 |
| 4/19/2015 15:35:08 | 37.73 | 32.03 | 1,023 | 0.29 | 0.33 | 56.0 |
| 4/19/2015 15:35:08 | 38.06 | 32.36 | 1,017 | 0.29 | 0.33 | 55.6 |
| 4/19/2015 15:35:09 | 38.39 | 32.69 | 1,020 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 15:35:09 | 38.71 | 33.01 | 1,020 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 15:35:09 | 39.04 | 33.34 | 1,017 | 0.29 | 0.33 | 55.6 |
| 4/19/2015 15:35:10 | 39.37 | 33.67 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:35:10 | 39.70 | 34.00 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:35:10 | 40.03 | 34.33 | 1,029 | 0.29 | 0.34 | 56.3 |
| 4/19/2015 15:35:11 | 40.35 | 34.65 | 1,026 | 0.29 | 0.33 | 56.1 |
| 4/19/2015 15:35:12 | 40.68 | 34.98 | 1,026 | 0.29 | 0.33 | 56.1 |
| 4/19/2015 15:35:12 | 41.01 | 35.31 | 1,021 | 0.29 | 0.33 | 55.8 |
| 4/19/2015 15:35:12 | 41.34 | 35.64 | 1,029 | 0.29 | 0.33 | 56.3 |
| 4/19/2015 15:35:13 | 41.67 | 35.97 | 1,029 | 0.29 | 0.33 | 56.3 |
| 4/19/2015 15:35:13 | 41.99 | 36.29 | 1,023 | 0.30 | 0.33 | 56.0 |
| 4/19/2015 15:35:13 | 42.32 | 36.62 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 15:35:14 | 42.65 | 36.95 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 15:35:14 | 42.98 | 37.28 | 1,011 | 0.29 | 0.32 | 55.3 |
| 4/19/2015 15:35:14 | 43.31 | 37.61 | 1,020 | 0.31 | 0.34 | 55.8 |
| 4/19/2015 15:35:15 | 43.64 | 37.94 | 1,020 | 0.31 | 0.34 | 55.8 |
| 4/19/2015 15:35:15 | 43.96 | 38.26 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/19/2015 15:35:15 | 44.29 | 38.59 | 1,021 | 0.29 | 0.33 | 55.8 |
| 4/19/2015 15:35:16 | 44.62 | 38.92 | 1,021 | 0.29 | 0.33 | 55.8 |
| 4/19/2015 15:35:16 | 44.95 | 39.25 | 1,021 | 0.24 | 0.33 | 55.8 |
| 4/19/2015 15:35:16 | 45.28 | 39.58 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:35:17 | 45.60 | 39.90 | 1,032 | 0.29 | 0.33 | 56.4 |
| 4/19/2015 15:35:17 | 45.93 | 40.23 | 1,010 | 0.30 | 0.33 | 55.2 |
| 4/19/2015 15:35:17 | 46.26 | 40.56 | 1,010 | 0.29 | 0.32 | 55.2 |
| 4/19/2015 15:35:18 | 46.59 | 40.89 | 1,010 | 0.29 | 0.32 | 55.2 |
| 4/19/2015 15:35:18 | 46.92 | 41.22 | 1,014 | 0.29 | 0.33 | 55.4 |
| 4/19/2015 15:35:18 | 47.24 | 41.54 | 1,016 | 0.29 | 0.33 | 55.6 |
| 4/19/2015 15:35:19 | 47.57 | 41.87 | 1,016 | 0.29 | 0.33 | 55.6 |
| 4/19/2015 15:35:19 | 47.90 | 42.20 | 1,022 | 0.29 | 0.34 | 55.9 |
| 4/19/2015 15:35:19 | 48.23 | 42.53 | 1,022 | 0.29 | 0.34 | 55.9 |
| 4/19/2015 15:35:20 | 48.56 | 42.86 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/19/2015 15:35:20 | 48.88 | 43.18 | 1,005 | 0.31 | 0.34 | 55.0 |
| 4/19/2015 15:35:20 | 49.21 | 43.51 | 1,004 | 0.29 | 0.34 | 54.9 |
| 4/19/2015 15:35:21 | 49.54 | 43.84 | 977 | 0.29 | 0.34 | 53.4 |
| 4/19/2015 15:35:22 | 49.87 | 44.17 | 942 | 0.29 | 0.34 | 51.5 |
| 4/19/2015 15:35:22 | 50.20 | 44.50 | 942 | 0.29 | 0.34 | 51.5 |
| 4/19/2015 15:35:22 | 50.53 | 44.83 | 914 | 0.29 | 0.35 | 50.0 |
| 4/19/2015 15:35:23 | 50.85 | 45.15 | 896 | 0.29 | 0.34 | 49.0 |
| 4/19/2015 15:35:23 | 51.18 | 45.48 | 879 | 0.29 | 0.35 | 48.1 |
| 4/19/2015 15:35:24 | 51.51 | 45.81 | 855 | 0.28 | 0.35 | 46.8 |
| 4/19/2015 15:35:24 | 51.84 | 46.14 | 855 | 0.28 | 0.35 | 46.8 |
| 4/19/2015 15:35:24 | 52.17 | 46.47 | 824 | 0.29 | 0.35 | 45.1 |
| 4/19/2015 15:35:25 | 52.49 | 46.79 | 824 | 0.29 | 0.36 | 45.1 |
| 4/19/2015 15:35:25 | 52.82 | 47.12 | 808 | 0.29 | 0.35 | 44.2 |
| 4/19/2015 15:35:26 | 53.15 | 47.45 | 792 | 0.50 | 0.35 | 43.3 |
| 4/19/2015 15:35:26 | 53.48 | 47.78 | 777 | 0.29 | 0.36 | 42.5 |
| 4/19/2015 15:35:27 | 53.81 | 48.11 | 774 | 0.28 | 0.36 | 42.4 |
| 4/19/2015 15:35:27 | 54.13 | 48.43 | 776 | 0.29 | 0.36 | 42.4 |
| 4/19/2015 15:35:28 | 54.46 | 48.76 | 748 | 0.29 | 0.36 | 40.9 |
| 4/19/2015 15:35:52 | 54.79 | 49.09 | 0 | 1.85 | 0.34 | 0.0 |
| 4/19/2015 15:35:53 | 55.12 | 49.42 | 76 | 2.06 | 0.34 | 4.2 |
| 4/19/2015 15:35:53 | 55.45 | 49.75 | 237 | 1.95 | 0.35 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 15:35:54 | 55.77 | 50.07 | 408 | 1.96 | 0.35 | 22.3 |
| 4/19/2015 | 15:35:54 | 56.10 | 50.40 | 576 | 1.98 | 0.35 | 31.5 |
| 4/19/2015 | 15:35:55 | 56.43 | 50.73 | 576 | 1.98 | 0.35 | 31.5 |
| 4/19/2015 | 15:35:55 | 56.76 | 51.06 | 736 | 1.97 | 0.35 | 40.2 |
| 4/19/2015 | 15:35:55 | 57.09 | 51.39 | 819 | 1.95 | 0.32 | 44.8 |
| 4/19/2015 | 15:35:56 | 57.41 | 51.71 | 832 | 1.97 | 0.35 | 45.5 |
| 4/19/2015 | 15:35:56 | 57.74 | 52.04 | 824 | 1.94 | 0.35 | 45.1 |
| 4/19/2015 | 15:35:57 | 58.07 | 52.37 | 824 | 1.95 | 0.35 | 45.1 |
| 4/19/2015 | 15:35:57 | 58.40 | 52.70 | 824 | 1.95 | 0.35 | 45.1 |
| 4/19/2015 | 15:35:57 | 58.73 | 53.03 | 815 | 2.15 | 0.35 | 44.6 |
| 4/19/2015 | 15:35:58 | 59.06 | 53.36 | 813 | 2.00 | 0.34 | 44.5 |
| 4/19/2015 | 15:35:58 | 59.38 | 53.68 | 795 | 1.88 | 0.35 | 43.5 |
| 4/19/2015 | 15:35:59 | 59.71 | 54.01 | 765 | 4.11 | 0.44 | 41.8 |
| 4/19/2015 | 15:36:01 | 60.04 | 54.34 | 422 | 4.08 | 0.43 | 23.1 |
| 4/19/2015 | 15:36:03 | 60.37 | 54.67 | 199 | 2.80 | 0.39 | 10.9 |
| 4/19/2015 | 15:36:07 | 60.70 | 55.00 | 93 | 2.64 | 0.40 | 5.1 |
| 4/19/2015 | 15:36:08 | 60.86 | 55.16 | 115 | 3.61 | 0.40 | 6.3 |

## D1001 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 15:32:48

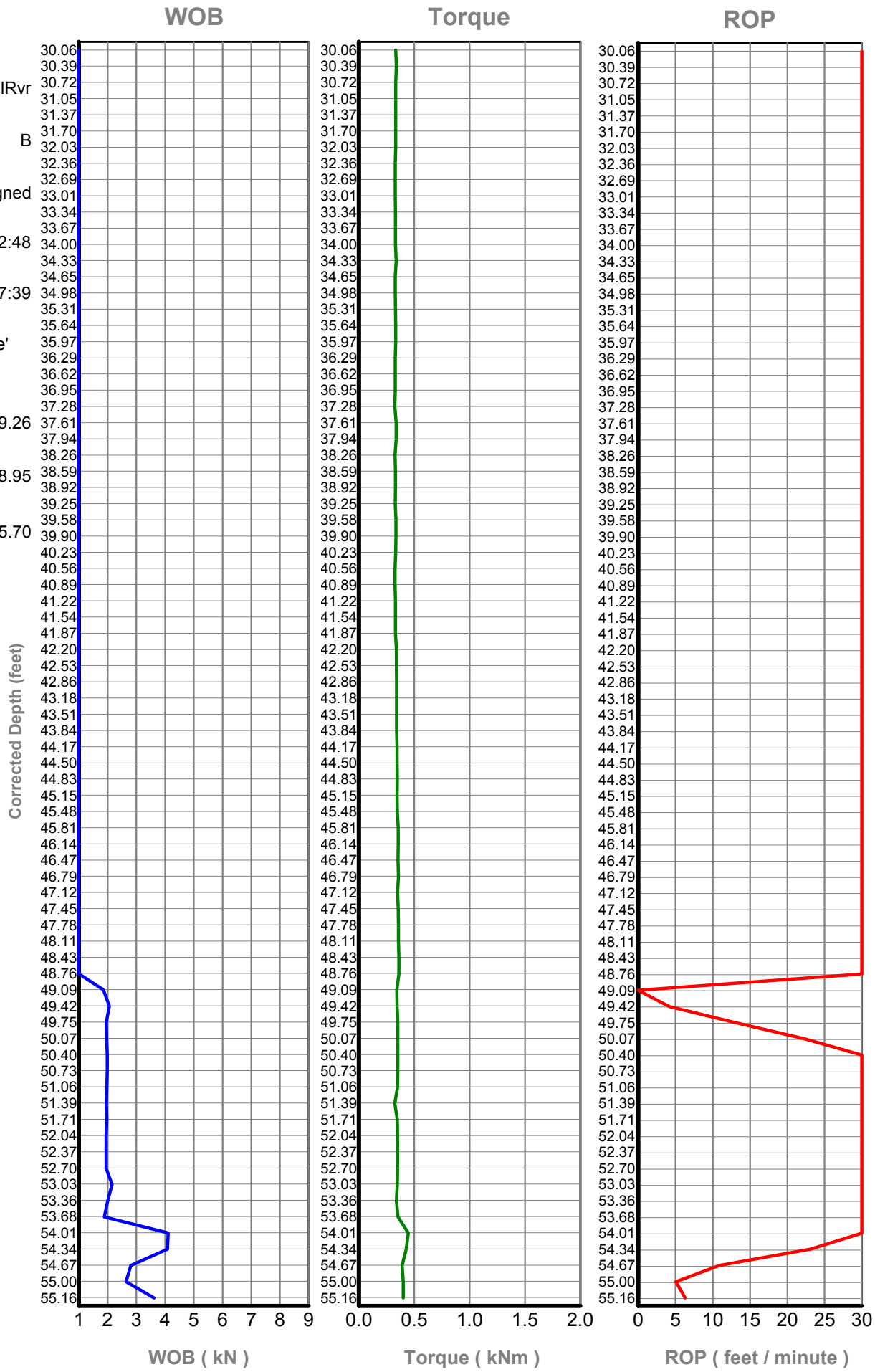
**End Date:**
4/19/2015 15:37:39

**Operator Note:**
'5.7 5.8 b Auto Complete'

**Northing:**
370,229.26

**Easting:**
255,918.95

**Tide (feet):**
5.70



## Hole: D1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 15:17:16 | 36.09 | 30.09 | 947 | 0.35 | 0.33 | 51.8 |
| 4/19/2015 15:17:17 | 36.42 | 30.42 | 947 | 0.35 | 0.33 | 51.8 |
| 4/19/2015 15:17:17 | 36.75 | 30.75 | 947 | 0.34 | 0.33 | 51.8 |
| 4/19/2015 15:17:17 | 37.07 | 31.07 | 949 | 0.36 | 0.34 | 51.9 |
| 4/19/2015 15:17:18 | 37.40 | 31.40 | 943 | 0.35 | 0.33 | 51.6 |
| 4/19/2015 15:17:18 | 37.73 | 31.73 | 943 | 0.35 | 0.33 | 51.6 |
| 4/19/2015 15:17:18 | 38.06 | 32.06 | 946 | 0.36 | 0.33 | 51.7 |
| 4/19/2015 15:17:19 | 38.39 | 32.39 | 938 | 0.35 | 0.33 | 51.3 |
| 4/19/2015 15:17:19 | 38.71 | 32.71 | 938 | 0.35 | 0.33 | 51.3 |
| 4/19/2015 15:17:20 | 39.04 | 33.04 | 958 | 0.36 | 0.32 | 52.4 |
| 4/19/2015 15:17:20 | 39.37 | 33.37 | 951 | 0.35 | 0.33 | 52.0 |
| 4/19/2015 15:17:21 | 39.70 | 33.70 | 946 | 0.36 | 0.33 | 51.7 |
| 4/19/2015 15:17:21 | 40.03 | 34.03 | 946 | 0.36 | 0.33 | 51.7 |
| 4/19/2015 15:17:21 | 40.35 | 34.35 | 946 | 0.36 | 0.34 | 51.7 |
| 4/19/2015 15:17:22 | 40.68 | 34.68 | 951 | 0.35 | 0.34 | 52.0 |
| 4/19/2015 15:17:22 | 41.01 | 35.01 | 951 | 0.35 | 0.34 | 52.0 |
| 4/19/2015 15:17:22 | 41.34 | 35.34 | 956 | 0.36 | 0.33 | 52.3 |
| 4/19/2015 15:17:23 | 41.67 | 35.67 | 948 | 0.35 | 0.33 | 51.8 |
| 4/19/2015 15:17:23 | 41.99 | 35.99 | 942 | 0.33 | 0.31 | 51.5 |
| 4/19/2015 15:17:27 | 42.32 | 36.32 | 0 | 0.28 | 0.33 | 0.0 |
| 4/19/2015 15:17:28 | 42.65 | 36.65 | 129 | 0.27 | 0.33 | 7.0 |
| 4/19/2015 15:17:28 | 42.98 | 36.98 | 323 | 0.27 | 0.32 | 17.7 |
| 4/19/2015 15:17:29 | 43.31 | 37.31 | 520 | 0.27 | 0.33 | 28.4 |
| 4/19/2015 15:17:29 | 43.64 | 37.64 | 520 | 0.27 | 0.33 | 28.4 |
| 4/19/2015 15:17:29 | 43.96 | 37.96 | 714 | 0.27 | 0.33 | 39.1 |
| 4/19/2015 15:17:30 | 44.29 | 38.29 | 914 | 0.27 | 0.33 | 50.0 |
| 4/19/2015 15:17:31 | 44.62 | 38.62 | 914 | 0.27 | 0.33 | 50.0 |
| 4/19/2015 15:17:31 | 44.95 | 38.95 | 989 | 0.27 | 0.32 | 54.1 |
| 4/19/2015 15:17:31 | 45.28 | 39.28 | 991 | 0.28 | 0.33 | 54.2 |
| 4/19/2015 15:17:32 | 45.60 | 39.60 | 991 | 0.28 | 0.33 | 54.2 |
| 4/19/2015 15:17:32 | 45.93 | 39.93 | 994 | 0.27 | 0.33 | 54.4 |
| 4/19/2015 15:17:32 | 46.26 | 40.26 | 1,003 | 0.27 | 0.32 | 54.8 |
| 4/19/2015 15:17:33 | 46.59 | 40.59 | 1,003 | 0.27 | 0.32 | 54.8 |
| 4/19/2015 15:17:33 | 46.92 | 40.92 | 992 | 0.27 | 0.33 | 54.2 |
| 4/19/2015 15:17:33 | 47.24 | 41.24 | 998 | 0.27 | 0.33 | 54.6 |
| 4/19/2015 15:17:34 | 47.57 | 41.57 | 998 | 0.27 | 0.33 | 54.6 |
| 4/19/2015 15:17:34 | 47.90 | 41.90 | 1,001 | 0.27 | 0.32 | 54.7 |
| 4/19/2015 15:17:34 | 48.23 | 42.23 | 1,001 | 0.27 | 0.33 | 54.7 |
| 4/19/2015 15:17:35 | 48.56 | 42.56 | 986 | 0.27 | 0.34 | 53.9 |
| 4/19/2015 15:17:35 | 48.88 | 42.88 | 986 | 0.27 | 0.34 | 53.9 |
| 4/19/2015 15:17:35 | 49.21 | 43.21 | 972 | 0.26 | 0.34 | 53.1 |
| 4/19/2015 15:17:36 | 49.54 | 43.54 | 939 | 0.27 | 0.33 | 51.4 |
| 4/19/2015 15:17:36 | 49.87 | 43.87 | 919 | 0.27 | 0.33 | 50.3 |
| 4/19/2015 15:17:37 | 50.20 | 44.20 | 919 | 0.27 | 0.33 | 50.3 |
| 4/19/2015 15:17:37 | 50.53 | 44.53 | 902 | 0.27 | 0.34 | 49.3 |
| 4/19/2015 15:17:37 | 50.85 | 44.85 | 890 | 0.27 | 0.34 | 48.7 |
| 4/19/2015 15:17:38 | 51.18 | 45.18 | 879 | 0.27 | 0.34 | 48.1 |
| 4/19/2015 15:17:38 | 51.51 | 45.51 | 870 | 0.27 | 0.34 | 47.6 |
| 4/19/2015 15:17:39 | 51.84 | 45.84 | 837 | 0.27 | 0.34 | 45.8 |
| 4/19/2015 15:17:39 | 52.17 | 46.17 | 837 | 0.27 | 0.34 | 45.8 |
| 4/19/2015 15:17:58 | 52.49 | 46.49 | 0 | 1.91 | 0.34 | 0.0 |
| 4/19/2015 15:17:58 | 52.82 | 46.82 | 57 | 1.92 | 0.34 | 3.1 |
| 4/19/2015 15:17:59 | 53.15 | 47.15 | 211 | 1.92 | 0.34 | 11.5 |
| 4/19/2015 15:17:59 | 53.48 | 47.48 | 211 | 1.93 | 0.34 | 11.5 |
| 4/19/2015 15:18:00 | 53.81 | 47.81 | 373 | 1.92 | 0.34 | 20.4 |
| 4/19/2015 15:18:00 | 54.13 | 48.13 | 373 | 1.92 | 0.34 | 20.4 |
| 4/19/2015 15:18:01 | 54.46 | 48.46 | 373 | 1.92 | 0.34 | 20.4 |
| 4/19/2015 15:18:01 | 54.79 | 48.79 | 546 | 1.93 | 0.34 | 29.8 |
| 4/19/2015 15:18:02 | 55.12 | 49.12 | 714 | 1.91 | 0.34 | 39.0 |
| 4/19/2015 15:18:02 | 55.45 | 49.45 | 827 | 1.91 | 0.34 | 45.2 |
| 4/19/2015 15:18:03 | 55.77 | 49.77 | 836 | 1.93 | 0.34 | 45.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 15:18:03 | 56.10 | 50.10 | 832 | 1.89 | 0.34 | 45.5 |
| 4/19/2015 | 15:18:04 | 56.43 | 50.43 | 832 | 1.89 | 0.34 | 45.5 |
| 4/19/2015 | 15:18:04 | 56.76 | 50.76 | 822 | 1.90 | 0.34 | 45.0 |
| 4/19/2015 | 15:18:04 | 57.09 | 51.09 | 803 | 1.92 | 0.34 | 43.9 |
| 4/19/2015 | 15:18:05 | 57.41 | 51.41 | 792 | 1.90 | 0.35 | 43.3 |
| 4/19/2015 | 15:18:05 | 57.74 | 51.74 | 799 | 1.92 | 0.34 | 43.7 |
| 4/19/2015 | 15:18:06 | 58.07 | 52.07 | 799 | 1.92 | 0.34 | 43.7 |
| 4/19/2015 | 15:18:06 | 58.40 | 52.40 | 801 | 1.91 | 0.34 | 43.8 |
| 4/19/2015 | 15:18:07 | 58.73 | 52.73 | 801 | 1.91 | 0.34 | 43.8 |
| 4/19/2015 | 15:18:07 | 59.06 | 53.06 | 815 | 1.91 | 0.34 | 44.6 |
| 4/19/2015 | 15:18:07 | 59.38 | 53.38 | 815 | 1.93 | 0.35 | 44.6 |
| 4/19/2015 | 15:18:08 | 59.71 | 53.71 | 825 | 1.93 | 0.35 | 45.1 |
| 4/19/2015 | 15:18:10 | 60.04 | 54.04 | 501 | 3.60 | 0.41 | 27.4 |
| 4/19/2015 | 15:18:24 | 60.37 | 54.37 | 45 | 3.70 | 0.40 | 2.5 |
| 4/19/2015 | 15:18:24 | 60.70 | 54.70 | 64 | 2.40 | 0.36 | 3.5 |
| 4/19/2015 | 15:18:30 | 61.02 | 55.02 | 0 | 2.02 | 0.35 | 0.0 |
| 4/19/2015 | 15:18:30 | 61.20 | 55.20 | 0 | 2.02 | 0.35 | 0.0 |

## D1003 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 15:15:23

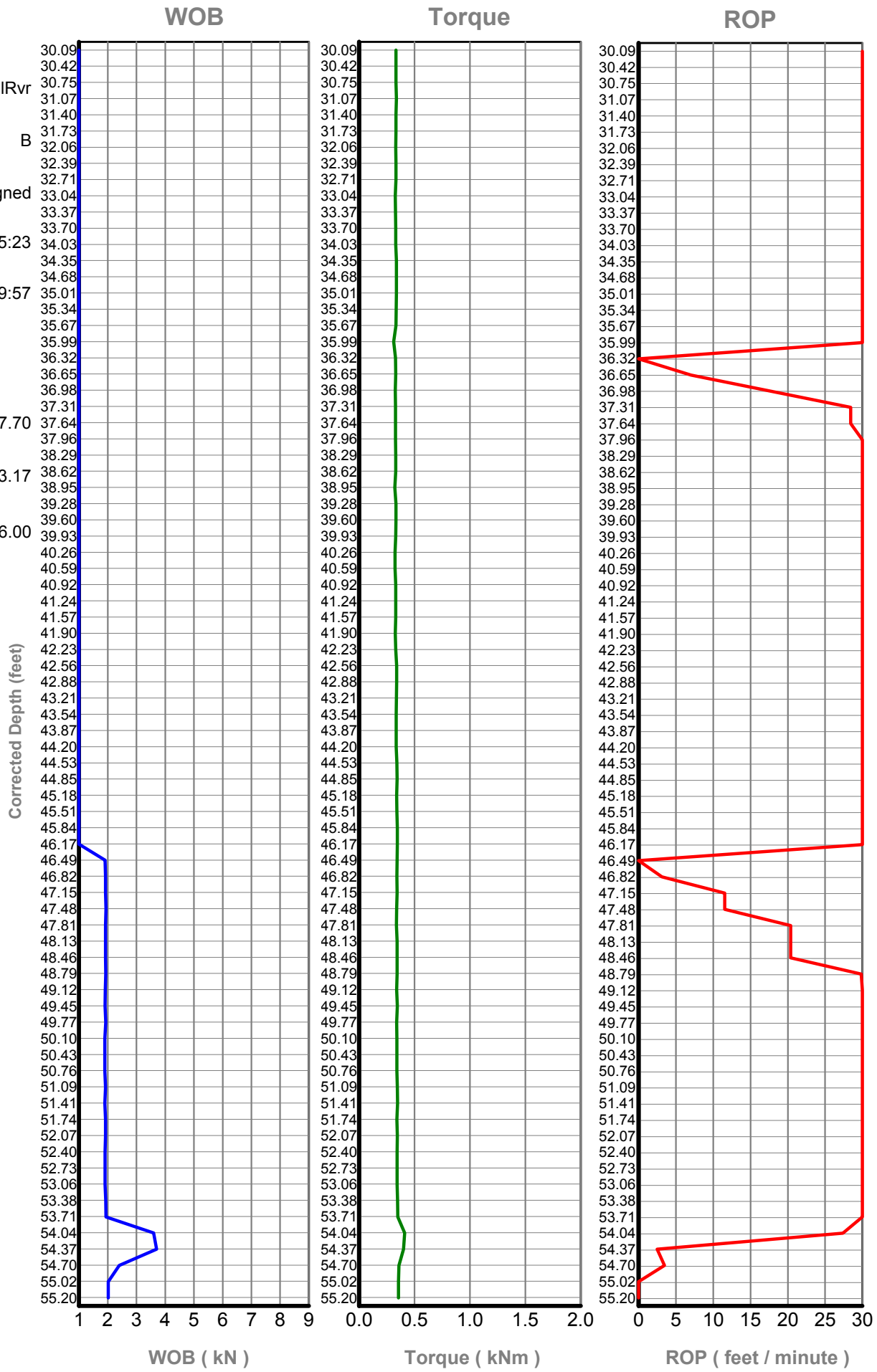
**End Date:**
4/19/2015 15:19:57

**Operator Note:**
'6 6.0 b Auto Complete'

**Northing:**
370,127.70

**Easting:**
255,883.17

**Tide (feet):**
6.00



## Hole: D1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 15:04:51 | 36.42 | 30.22 | 915 | 0.36 | 0.34 | 50.0 |
| 4/19/2015 15:04:52 | 36.75 | 30.55 | 914 | 0.29 | 0.33 | 50.0 |
| 4/19/2015 15:04:52 | 37.07 | 30.87 | 915 | 0.29 | 0.34 | 50.0 |
| 4/19/2015 15:04:53 | 37.40 | 31.20 | 915 | 0.29 | 0.34 | 50.0 |
| 4/19/2015 15:04:53 | 37.73 | 31.53 | 927 | 0.33 | 0.34 | 50.7 |
| 4/19/2015 15:04:53 | 38.06 | 31.86 | 927 | 0.33 | 0.34 | 50.7 |
| 4/19/2015 15:04:54 | 38.39 | 32.19 | 927 | 0.33 | 0.34 | 50.7 |
| 4/19/2015 15:04:54 | 38.71 | 32.51 | 927 | 0.32 | 0.34 | 50.7 |
| 4/19/2015 15:04:54 | 39.04 | 32.84 | 933 | 0.29 | 0.33 | 51.0 |
| 4/19/2015 15:04:55 | 39.37 | 33.17 | 945 | 0.28 | 0.33 | 51.7 |
| 4/19/2015 15:04:55 | 39.70 | 33.50 | 945 | 0.28 | 0.33 | 51.7 |
| 4/19/2015 15:04:55 | 40.03 | 33.83 | 939 | 0.28 | 0.33 | 51.4 |
| 4/19/2015 15:04:56 | 40.35 | 34.15 | 939 | 0.28 | 0.33 | 51.4 |
| 4/19/2015 15:04:56 | 40.68 | 34.48 | 939 | 0.28 | 0.33 | 51.4 |
| 4/19/2015 15:04:56 | 41.01 | 34.81 | 965 | 0.27 | 0.33 | 52.8 |
| 4/19/2015 15:04:57 | 41.34 | 35.14 | 962 | 0.23 | 0.33 | 52.6 |
| 4/19/2015 15:04:57 | 41.67 | 35.47 | 968 | 0.27 | 0.33 | 52.9 |
| 4/19/2015 15:04:58 | 41.99 | 35.79 | 968 | 0.27 | 0.33 | 52.9 |
| 4/19/2015 15:04:58 | 42.32 | 36.12 | 965 | 0.19 | 0.33 | 52.8 |
| 4/19/2015 15:04:58 | 42.65 | 36.45 | 973 | 0.27 | 0.33 | 53.2 |
| 4/19/2015 15:04:59 | 42.98 | 36.78 | 973 | 0.27 | 0.33 | 53.2 |
| 4/19/2015 15:04:59 | 43.31 | 37.11 | 963 | 0.27 | 0.33 | 52.6 |
| 4/19/2015 15:04:59 | 43.64 | 37.44 | 963 | 0.27 | 0.33 | 52.6 |
| 4/19/2015 15:05:00 | 43.96 | 37.76 | 965 | 0.27 | 0.33 | 52.8 |
| 4/19/2015 15:05:00 | 44.29 | 38.09 | 965 | 0.27 | 0.33 | 52.8 |
| 4/19/2015 15:05:00 | 44.62 | 38.42 | 963 | 0.27 | 0.33 | 52.6 |
| 4/19/2015 15:05:01 | 44.95 | 38.75 | 974 | 0.27 | 0.32 | 53.3 |
| 4/19/2015 15:05:02 | 45.28 | 39.08 | 974 | 0.27 | 0.32 | 53.3 |
| 4/19/2015 15:05:02 | 45.60 | 39.40 | 980 | 0.27 | 0.33 | 53.6 |
| 4/19/2015 15:05:02 | 45.93 | 39.73 | 983 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:03 | 46.26 | 40.06 | 983 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:03 | 46.59 | 40.39 | 983 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:03 | 46.92 | 40.72 | 967 | 0.27 | 0.34 | 52.9 |
| 4/19/2015 15:05:04 | 47.24 | 41.04 | 967 | 0.27 | 0.32 | 52.9 |
| 4/19/2015 15:05:04 | 47.57 | 41.37 | 967 | 0.27 | 0.32 | 52.9 |
| 4/19/2015 15:05:04 | 47.90 | 41.70 | 975 | 0.27 | 0.34 | 53.3 |
| 4/19/2015 15:05:05 | 48.23 | 42.03 | 972 | 0.27 | 0.33 | 53.2 |
| 4/19/2015 15:05:05 | 48.56 | 42.36 | 972 | 0.27 | 0.33 | 53.2 |
| 4/19/2015 15:05:05 | 48.88 | 42.68 | 978 | 0.28 | 0.33 | 53.5 |
| 4/19/2015 15:05:06 | 49.21 | 43.01 | 975 | 0.28 | 0.33 | 53.3 |
| 4/19/2015 15:05:06 | 49.54 | 43.34 | 975 | 0.28 | 0.33 | 53.3 |
| 4/19/2015 15:05:06 | 49.87 | 43.67 | 982 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:07 | 50.20 | 44.00 | 982 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:07 | 50.53 | 44.33 | 982 | 0.27 | 0.33 | 53.7 |
| 4/19/2015 15:05:07 | 50.85 | 44.65 | 981 | 0.26 | 0.33 | 53.6 |
| 4/19/2015 15:05:08 | 51.18 | 44.98 | 984 | 0.28 | 0.33 | 53.8 |
| 4/19/2015 15:05:08 | 51.51 | 45.31 | 975 | 0.34 | 0.33 | 53.3 |
| 4/19/2015 15:05:09 | 51.84 | 45.64 | 975 | 0.34 | 0.33 | 53.3 |
| 4/19/2015 15:05:09 | 52.17 | 45.97 | 978 | 0.28 | 0.33 | 53.5 |
| 4/19/2015 15:05:09 | 52.49 | 46.29 | 989 | 0.28 | 0.33 | 54.1 |
| 4/19/2015 15:05:10 | 52.82 | 46.62 | 989 | 0.28 | 0.33 | 54.1 |
| 4/19/2015 15:05:10 | 53.15 | 46.95 | 971 | 0.28 | 0.34 | 53.1 |
| 4/19/2015 15:05:10 | 53.48 | 47.28 | 951 | 0.27 | 0.34 | 52.0 |
| 4/19/2015 15:05:11 | 53.81 | 47.61 | 925 | 0.27 | 0.34 | 50.6 |
| 4/19/2015 15:05:12 | 54.13 | 47.93 | 896 | 0.27 | 0.34 | 49.0 |
| 4/19/2015 15:05:12 | 54.46 | 48.26 | 896 | 0.27 | 0.34 | 49.0 |
| 4/19/2015 15:05:12 | 54.79 | 48.59 | 864 | 0.27 | 0.35 | 47.2 |
| 4/19/2015 15:05:13 | 55.12 | 48.92 | 830 | 0.27 | 0.35 | 45.4 |
| 4/19/2015 15:05:13 | 55.45 | 49.25 | 806 | 0.27 | 0.35 | 44.1 |
| 4/19/2015 15:05:14 | 55.77 | 49.57 | 804 | 0.27 | 0.35 | 44.0 |
| 4/19/2015 15:05:35 | 56.10 | 49.90 | 36 | 2.06 | 0.34 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 15:05:36 | 56.43 | 50.23 | 36 | 2.06 | 0.34 | 2.0 |
| 4/19/2015 | 15:05:36 | 56.76 | 50.56 | 198 | 2.05 | 0.34 | 10.9 |
| 4/19/2015 | 15:05:36 | 57.09 | 50.89 | 363 | 2.05 | 0.34 | 19.9 |
| 4/19/2015 | 15:05:37 | 57.41 | 51.21 | 363 | 2.04 | 0.35 | 19.9 |
| 4/19/2015 | 15:05:37 | 57.74 | 51.54 | 526 | 2.12 | 0.34 | 28.8 |
| 4/19/2015 | 15:05:38 | 58.07 | 51.87 | 697 | 2.02 | 0.34 | 38.1 |
| 4/19/2015 | 15:05:38 | 58.40 | 52.20 | 697 | 2.02 | 0.34 | 38.1 |
| 4/19/2015 | 15:05:38 | 58.73 | 52.53 | 825 | 2.00 | 0.34 | 45.1 |
| 4/19/2015 | 15:05:39 | 59.06 | 52.86 | 817 | 2.00 | 0.34 | 44.7 |
| 4/19/2015 | 15:05:39 | 59.38 | 53.18 | 820 | 2.00 | 0.34 | 44.8 |
| 4/19/2015 | 15:05:40 | 59.71 | 53.51 | 818 | 2.00 | 0.34 | 44.7 |
| 4/19/2015 | 15:05:40 | 60.04 | 53.84 | 818 | 2.02 | 0.34 | 44.7 |
| 4/19/2015 | 15:05:41 | 60.37 | 54.17 | 818 | 2.02 | 0.34 | 44.7 |
| 4/19/2015 | 15:05:41 | 60.70 | 54.50 | 827 | 2.14 | 0.35 | 45.2 |
| 4/19/2015 | 15:05:42 | 61.02 | 54.82 | 802 | 2.02 | 0.34 | 43.8 |
| 4/19/2015 | 15:05:42 | 61.35 | 55.15 | 802 | 2.02 | 0.42 | 43.9 |
| 4/19/2015 | 15:05:42 | 61.41 | 55.21 | 802 | 2.02 | 0.42 | 43.9 |

## D1006 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 15:01:47

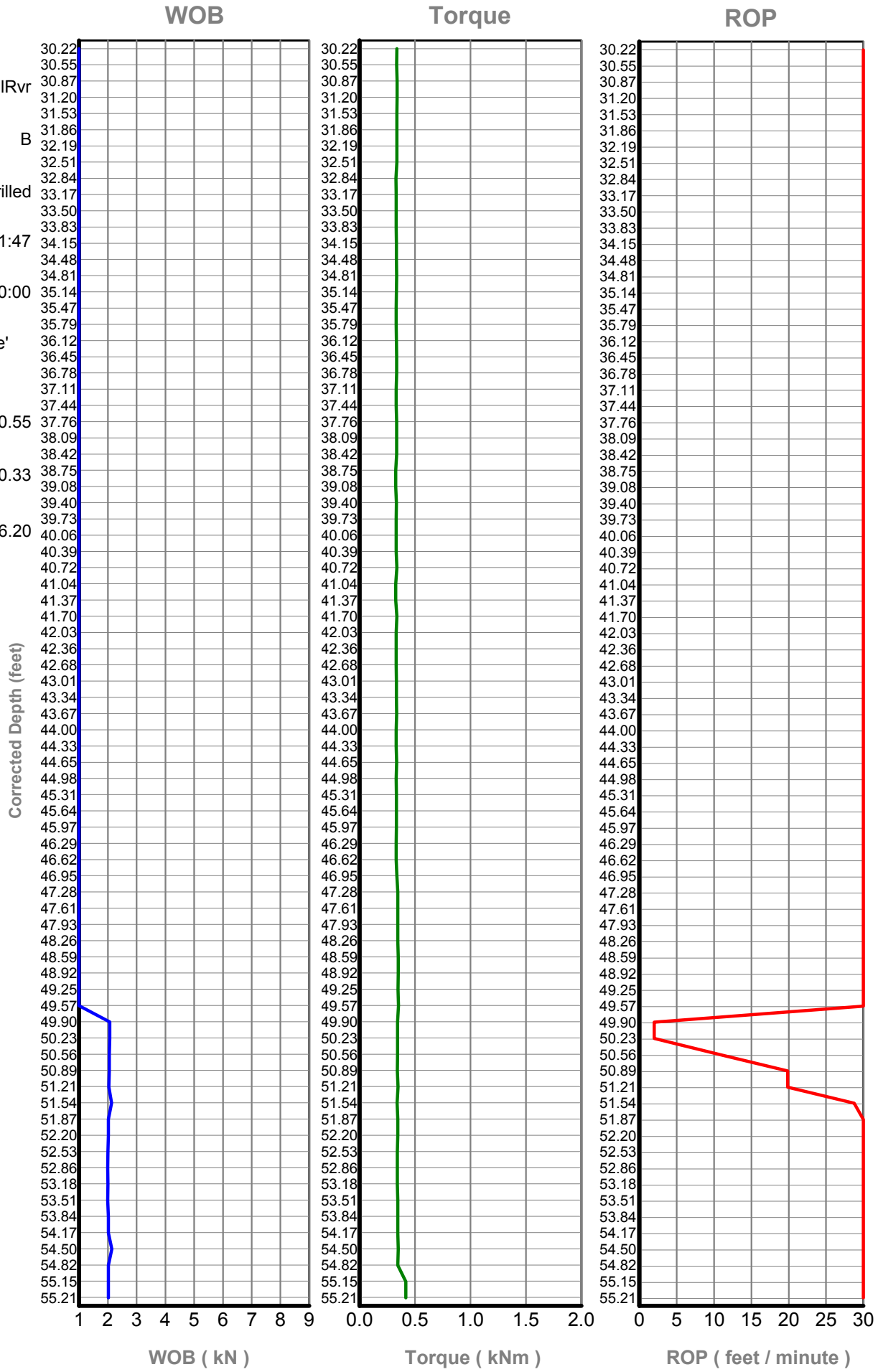
**End Date:**
4/19/2015 15:10:00

**Operator Note:**
'6.2 6.2 b Auto Complete'

**Northing:**
370,070.55

**Easting:**
255,910.33

**Tide (feet):**
6.20



## Hole: D1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 13:36:45 | 36.42 | 30.12 | 842 | 0.45 | 0.35 | 46.1 |
| 4/19/2015 13:36:45 | 36.75 | 30.45 | 845 | 0.44 | 0.34 | 46.2 |
| 4/19/2015 13:36:46 | 37.07 | 30.77 | 842 | 0.45 | 0.35 | 46.1 |
| 4/19/2015 13:36:46 | 37.40 | 31.10 | 855 | 0.44 | 0.34 | 46.8 |
| 4/19/2015 13:36:47 | 37.73 | 31.43 | 860 | 0.44 | 0.34 | 47.0 |
| 4/19/2015 13:36:47 | 38.06 | 31.76 | 860 | 0.44 | 0.34 | 47.0 |
| 4/19/2015 13:36:47 | 38.39 | 32.09 | 850 | 0.44 | 0.34 | 46.5 |
| 4/19/2015 13:36:48 | 38.71 | 32.41 | 850 | 0.44 | 0.34 | 46.5 |
| 4/19/2015 13:36:48 | 39.04 | 32.74 | 850 | 0.45 | 0.34 | 46.5 |
| 4/19/2015 13:36:49 | 39.37 | 33.07 | 848 | 0.44 | 0.34 | 46.4 |
| 4/19/2015 13:36:49 | 39.70 | 33.40 | 848 | 0.44 | 0.34 | 46.4 |
| 4/19/2015 13:36:49 | 40.03 | 33.73 | 859 | 0.44 | 0.35 | 47.0 |
| 4/19/2015 13:36:50 | 40.35 | 34.05 | 856 | 0.44 | 0.35 | 46.8 |
| 4/19/2015 13:36:50 | 40.68 | 34.38 | 856 | 0.44 | 0.34 | 46.8 |
| 4/19/2015 13:36:51 | 41.01 | 34.71 | 840 | 0.42 | 0.35 | 45.9 |
| 4/19/2015 13:36:51 | 41.34 | 35.04 | 840 | 0.42 | 0.35 | 45.9 |
| 4/19/2015 13:36:51 | 41.67 | 35.37 | 840 | 0.45 | 0.35 | 45.9 |
| 4/19/2015 13:36:52 | 41.99 | 35.69 | 847 | 0.44 | 0.35 | 46.3 |
| 4/19/2015 13:36:52 | 42.32 | 36.02 | 827 | 0.45 | 0.35 | 45.2 |
| 4/19/2015 13:36:53 | 42.65 | 36.35 | 837 | 0.43 | 0.34 | 45.8 |
| 4/19/2015 13:36:53 | 42.98 | 36.68 | 837 | 0.43 | 0.34 | 45.8 |
| 4/19/2015 13:36:53 | 43.31 | 37.01 | 837 | 0.35 | 0.33 | 45.8 |
| 4/19/2015 13:36:54 | 43.64 | 37.34 | 867 | 0.35 | 0.34 | 47.4 |
| 4/19/2015 13:36:55 | 43.96 | 37.66 | 865 | 0.35 | 0.35 | 47.3 |
| 4/19/2015 13:36:55 | 44.29 | 37.99 | 883 | 0.34 | 0.34 | 48.3 |
| 4/19/2015 13:36:56 | 44.62 | 38.32 | 883 | 0.34 | 0.34 | 48.3 |
| 4/19/2015 13:36:56 | 44.95 | 38.65 | 879 | 0.34 | 0.34 | 48.1 |
| 4/19/2015 13:36:56 | 45.28 | 38.98 | 894 | 0.34 | 0.34 | 48.9 |
| 4/19/2015 13:36:57 | 45.60 | 39.30 | 900 | 0.33 | 0.34 | 49.2 |
| 4/19/2015 13:36:57 | 45.93 | 39.63 | 900 | 0.33 | 0.34 | 49.2 |
| 4/19/2015 13:36:57 | 46.26 | 39.96 | 902 | 0.33 | 0.34 | 49.4 |
| 4/19/2015 13:36:58 | 46.59 | 40.29 | 902 | 0.33 | 0.34 | 49.4 |
| 4/19/2015 13:36:58 | 46.92 | 40.62 | 910 | 0.33 | 0.34 | 49.8 |
| 4/19/2015 13:36:59 | 47.24 | 40.94 | 910 | 0.33 | 0.34 | 49.8 |
| 4/19/2015 13:36:59 | 47.57 | 41.27 | 896 | 0.33 | 0.33 | 49.0 |
| 4/19/2015 13:36:59 | 47.90 | 41.60 | 891 | 0.34 | 0.34 | 48.7 |
| 4/19/2015 13:37:00 | 48.23 | 41.93 | 905 | 0.33 | 0.34 | 49.5 |
| 4/19/2015 13:37:00 | 48.56 | 42.26 | 905 | 0.33 | 0.34 | 49.5 |
| 4/19/2015 13:37:00 | 48.88 | 42.58 | 905 | 0.33 | 0.31 | 49.5 |
| 4/19/2015 13:37:01 | 49.21 | 42.91 | 905 | 0.34 | 0.34 | 49.5 |
| 4/19/2015 13:37:01 | 49.54 | 43.24 | 905 | 0.34 | 0.34 | 49.5 |
| 4/19/2015 13:37:02 | 49.87 | 43.57 | 905 | 0.34 | 0.34 | 49.5 |
| 4/19/2015 13:37:02 | 50.20 | 43.90 | 908 | 0.33 | 0.34 | 49.6 |
| 4/19/2015 13:37:02 | 50.53 | 44.23 | 902 | 0.33 | 0.34 | 49.3 |
| 4/19/2015 13:37:03 | 50.85 | 44.55 | 905 | 0.34 | 0.34 | 49.5 |
| 4/19/2015 13:37:03 | 51.18 | 44.88 | 900 | 0.33 | 0.34 | 49.2 |
| 4/19/2015 13:37:04 | 51.51 | 45.21 | 900 | 0.33 | 0.34 | 49.2 |
| 4/19/2015 13:37:04 | 51.84 | 45.54 | 899 | 0.33 | 0.34 | 49.2 |
| 4/19/2015 13:37:04 | 52.17 | 45.87 | 884 | 0.32 | 0.38 | 48.4 |
| 4/19/2015 13:37:17 | 52.49 | 46.19 | 91 | 2.76 | 0.36 | 5.0 |
| 4/19/2015 13:37:18 | 52.82 | 46.52 | 214 | 2.50 | 0.34 | 11.7 |
| 4/19/2015 13:37:18 | 53.15 | 46.85 | 364 | 2.45 | 0.35 | 19.9 |
| 4/19/2015 13:37:19 | 53.48 | 47.18 | 537 | 2.27 | 0.35 | 29.4 |
| 4/19/2015 13:37:19 | 53.81 | 47.51 | 537 | 2.27 | 0.35 | 29.4 |
| 4/19/2015 13:37:19 | 54.13 | 47.83 | 698 | 2.27 | 0.35 | 38.2 |
| 4/19/2015 13:37:20 | 54.46 | 48.16 | 783 | 2.28 | 0.35 | 42.8 |
| 4/19/2015 13:37:20 | 54.79 | 48.49 | 805 | 2.29 | 0.35 | 44.0 |
| 4/19/2015 13:37:21 | 55.12 | 48.82 | 822 | 2.27 | 0.35 | 45.0 |
| 4/19/2015 13:37:21 | 55.45 | 49.15 | 806 | 2.27 | 0.35 | 44.1 |
| 4/19/2015 13:37:22 | 55.77 | 49.47 | 806 | 2.27 | 0.35 | 44.1 |
| 4/19/2015 13:37:22 | 56.10 | 49.80 | 808 | 2.27 | 0.35 | 44.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 13:37:22 | 56.43 | 50.13 | 786 | 2.21 | 0.35 | 43.0 |
| 4/19/2015 | 13:37:23 | 56.76 | 50.46 | 802 | 2.23 | 0.35 | 43.9 |
| 4/19/2015 | 13:37:23 | 57.09 | 50.79 | 786 | 2.25 | 0.35 | 43.0 |
| 4/19/2015 | 13:37:24 | 57.41 | 51.11 | 767 | 2.25 | 0.35 | 42.0 |
| 4/19/2015 | 13:37:24 | 57.74 | 51.44 | 767 | 2.24 | 0.35 | 42.0 |
| 4/19/2015 | 13:37:25 | 58.07 | 51.77 | 775 | 2.25 | 0.35 | 42.4 |
| 4/19/2015 | 13:37:25 | 58.40 | 52.10 | 775 | 2.25 | 0.35 | 42.4 |
| 4/19/2015 | 13:37:25 | 58.73 | 52.43 | 780 | 2.27 | 0.35 | 42.6 |
| 4/19/2015 | 13:37:26 | 59.06 | 52.76 | 766 | 2.25 | 0.35 | 41.9 |
| 4/19/2015 | 13:37:27 | 59.38 | 53.08 | 766 | 2.25 | 0.34 | 41.9 |
| 4/19/2015 | 13:37:27 | 59.71 | 53.41 | 787 | 2.24 | 0.35 | 43.1 |
| 4/19/2015 | 13:37:28 | 60.04 | 53.74 | 772 | 2.25 | 0.35 | 42.2 |
| 4/19/2015 | 13:37:28 | 60.37 | 54.07 | 769 | 2.24 | 0.35 | 42.1 |
| 4/19/2015 | 13:37:29 | 60.70 | 54.40 | 772 | 2.23 | 0.35 | 42.2 |
| 4/19/2015 | 13:37:29 | 61.02 | 54.72 | 772 | 2.24 | 0.35 | 42.2 |
| 4/19/2015 | 13:37:30 | 61.35 | 55.05 | 766 | 2.23 | 0.31 | 41.9 |
| 4/19/2015 | 13:37:30 | 61.46 | 55.16 | 766 | 2.23 | 0.31 | 41.9 |

## D1007 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 13:35:21

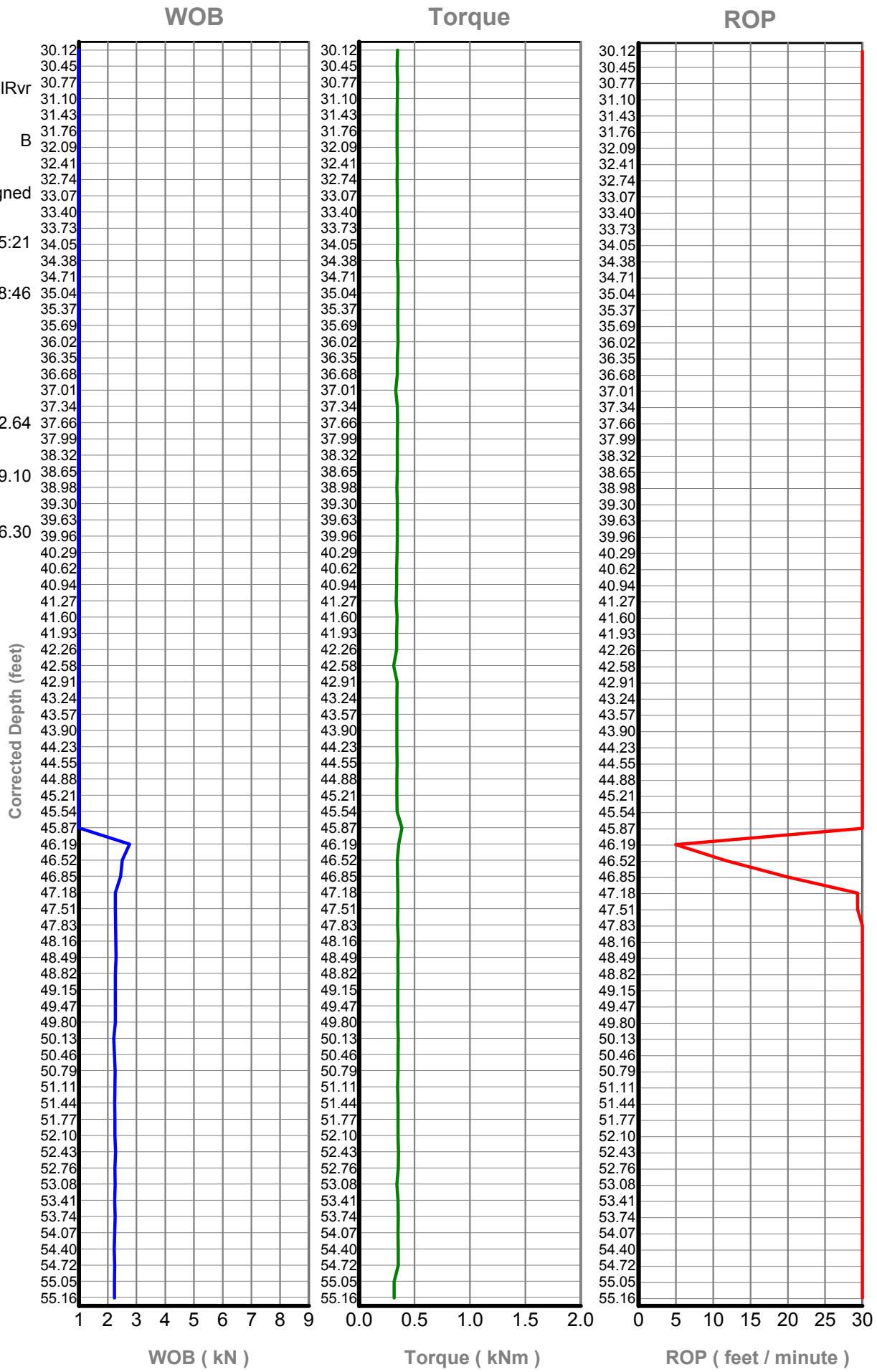
**End Date:**
4/19/2015 13:38:46

**Operator Note:**
'6.3 6.4 b No rock'

**Northing:**
370,102.64

**Easting:**
255,979.10

**Tide (feet):**
6.30



## Hole: D1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 13:32:07 | 36.42 | 30.12 | 840 | 0.36 | 0.34 | 45.9 |
| 4/19/2015 13:32:07 | 36.75 | 30.45 | 845 | 0.36 | 0.34 | 46.2 |
| 4/19/2015 13:32:07 | 37.07 | 30.77 | 845 | 0.36 | 0.34 | 46.2 |
| 4/19/2015 13:32:08 | 37.40 | 31.10 | 844 | 0.36 | 0.35 | 46.1 |
| 4/19/2015 13:32:08 | 37.73 | 31.43 | 844 | 0.36 | 0.35 | 46.1 |
| 4/19/2015 13:32:09 | 38.06 | 31.76 | 844 | 0.36 | 0.35 | 46.1 |
| 4/19/2015 13:32:09 | 38.39 | 32.09 | 846 | 0.36 | 0.35 | 46.3 |
| 4/19/2015 13:32:09 | 38.71 | 32.41 | 862 | 0.36 | 0.35 | 47.2 |
| 4/19/2015 13:32:10 | 39.04 | 32.74 | 857 | 0.36 | 0.35 | 46.8 |
| 4/19/2015 13:32:10 | 39.37 | 33.07 | 827 | 0.37 | 0.35 | 45.2 |
| 4/19/2015 13:32:11 | 39.70 | 33.40 | 827 | 0.37 | 0.35 | 45.2 |
| 4/19/2015 13:32:11 | 40.03 | 33.73 | 827 | 0.43 | 0.34 | 45.2 |
| 4/19/2015 13:32:11 | 40.35 | 34.05 | 849 | 0.37 | 0.34 | 46.4 |
| 4/19/2015 13:32:12 | 40.68 | 34.38 | 839 | 0.38 | 0.35 | 45.9 |
| 4/19/2015 13:32:12 | 41.01 | 34.71 | 839 | 0.35 | 0.35 | 45.9 |
| 4/19/2015 13:32:13 | 41.34 | 35.04 | 839 | 0.35 | 0.35 | 45.9 |
| 4/19/2015 13:32:13 | 41.67 | 35.37 | 847 | 0.36 | 0.35 | 46.3 |
| 4/19/2015 13:32:14 | 41.99 | 35.69 | 830 | 0.37 | 0.35 | 45.4 |
| 4/19/2015 13:32:14 | 42.32 | 36.02 | 856 | 0.36 | 0.32 | 46.8 |
| 4/19/2015 13:32:15 | 42.65 | 36.35 | 842 | 0.36 | 0.35 | 46.0 |
| 4/19/2015 13:32:15 | 42.98 | 36.68 | 843 | 0.37 | 0.35 | 46.1 |
| 4/19/2015 13:32:16 | 43.31 | 37.01 | 843 | 0.37 | 0.35 | 46.1 |
| 4/19/2015 13:32:16 | 43.64 | 37.34 | 825 | 0.36 | 0.35 | 45.1 |
| 4/19/2015 13:32:16 | 43.96 | 37.66 | 836 | 0.36 | 0.35 | 45.7 |
| 4/19/2015 13:32:17 | 44.29 | 37.99 | 836 | 0.36 | 0.35 | 45.7 |
| 4/19/2015 13:32:17 | 44.62 | 38.32 | 839 | 0.36 | 0.34 | 45.9 |
| 4/19/2015 13:32:18 | 44.95 | 38.65 | 839 | 0.36 | 0.34 | 45.9 |
| 4/19/2015 13:32:18 | 45.28 | 38.98 | 839 | 0.37 | 0.35 | 45.9 |
| 4/19/2015 13:32:18 | 45.60 | 39.30 | 855 | 0.37 | 0.35 | 46.8 |
| 4/19/2015 13:32:19 | 45.93 | 39.63 | 853 | 0.36 | 0.34 | 46.6 |
| 4/19/2015 13:32:19 | 46.26 | 39.96 | 859 | 0.14 | 0.35 | 47.0 |
| 4/19/2015 13:32:20 | 46.59 | 40.29 | 859 | 0.14 | 0.35 | 47.0 |
| 4/19/2015 13:32:20 | 46.92 | 40.62 | 854 | 0.37 | 0.35 | 46.7 |
| 4/19/2015 13:32:20 | 47.24 | 40.94 | 859 | 0.38 | 0.34 | 47.0 |
| 4/19/2015 13:32:21 | 47.57 | 41.27 | 856 | 0.36 | 0.34 | 46.8 |
| 4/19/2015 13:32:21 | 47.90 | 41.60 | 856 | 0.36 | 0.35 | 46.8 |
| 4/19/2015 13:32:22 | 48.23 | 41.93 | 856 | 0.36 | 0.35 | 46.8 |
| 4/19/2015 13:32:22 | 48.56 | 42.26 | 854 | 0.37 | 0.34 | 46.7 |
| 4/19/2015 13:32:22 | 48.88 | 42.58 | 870 | 0.36 | 0.34 | 47.6 |
| 4/19/2015 13:32:23 | 49.21 | 42.91 | 856 | 0.36 | 0.35 | 46.8 |
| 4/19/2015 13:32:24 | 49.54 | 43.24 | 831 | 0.36 | 0.35 | 45.4 |
| 4/19/2015 13:32:24 | 49.87 | 43.57 | 831 | 0.36 | 0.35 | 45.4 |
| 4/19/2015 13:32:24 | 50.20 | 43.90 | 827 | 0.37 | 0.35 | 45.2 |
| 4/19/2015 13:32:25 | 50.53 | 44.23 | 827 | 0.36 | 0.35 | 45.2 |
| 4/19/2015 13:32:25 | 50.85 | 44.55 | 827 | 0.33 | 0.35 | 45.2 |
| 4/19/2015 13:32:26 | 51.18 | 44.88 | 804 | 0.38 | 0.35 | 44.0 |
| 4/19/2015 13:32:26 | 51.51 | 45.21 | 793 | 0.36 | 0.36 | 43.4 |
| 4/19/2015 13:32:27 | 51.84 | 45.54 | 800 | 0.36 | 0.36 | 43.8 |
| 4/19/2015 13:32:27 | 52.17 | 45.87 | 781 | 0.28 | 0.36 | 42.7 |
| 4/19/2015 13:32:28 | 52.49 | 46.19 | 754 | 0.35 | 0.36 | 41.2 |
| 4/19/2015 13:32:28 | 52.82 | 46.52 | 740 | 0.35 | 0.40 | 40.5 |
| 4/19/2015 13:32:38 | 53.15 | 46.85 | 44 | 4.71 | 0.42 | 2.4 |
| 4/19/2015 13:32:40 | 53.48 | 47.18 | 147 | 3.95 | 0.37 | 8.0 |
| 4/19/2015 13:32:41 | 53.81 | 47.51 | 271 | 3.40 | 0.37 | 14.8 |
| 4/19/2015 13:32:41 | 54.13 | 47.83 | 355 | 3.94 | 0.38 | 19.4 |
| 4/19/2015 13:32:42 | 54.46 | 48.16 | 434 | 3.85 | 0.37 | 23.8 |
| 4/19/2015 13:32:42 | 54.79 | 48.49 | 490 | 4.48 | 0.37 | 26.8 |
| 4/19/2015 13:32:43 | 55.12 | 48.82 | 521 | 4.96 | 0.37 | 28.5 |
| 4/19/2015 13:32:44 | 55.45 | 49.15 | 553 | 3.49 | 0.37 | 30.2 |
| 4/19/2015 13:32:45 | 55.77 | 49.47 | 552 | 3.83 | 0.37 | 30.2 |
| 4/19/2015 13:32:45 | 56.10 | 49.80 | 564 | 2.87 | 0.36 | 30.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 13:32:46 | 56.43 | 50.13 | 581 | 3.67 | 0.37 | 31.8 |
| 4/19/2015 | 13:32:47 | 56.76 | 50.46 | 581 | 3.53 | 0.37 | 31.7 |
| 4/19/2015 | 13:32:47 | 57.09 | 50.79 | 581 | 3.03 | 0.36 | 31.7 |
| 4/19/2015 | 13:32:48 | 57.41 | 51.11 | 578 | 3.36 | 0.35 | 31.6 |
| 4/19/2015 | 13:32:48 | 57.74 | 51.44 | 556 | 3.25 | 0.37 | 30.4 |
| 4/19/2015 | 13:32:49 | 58.07 | 51.77 | 552 | 3.39 | 0.38 | 30.2 |
| 4/19/2015 | 13:32:50 | 58.40 | 52.10 | 564 | 3.14 | 0.37 | 30.8 |
| 4/19/2015 | 13:32:50 | 58.73 | 52.43 | 575 | 3.03 | 0.36 | 31.4 |
| 4/19/2015 | 13:32:51 | 59.06 | 52.76 | 596 | 2.93 | 0.37 | 32.6 |
| 4/19/2015 | 13:32:51 | 59.38 | 53.08 | 601 | 2.76 | 0.36 | 32.9 |
| 4/19/2015 | 13:32:52 | 59.71 | 53.41 | 607 | 3.02 | 0.37 | 33.2 |
| 4/19/2015 | 13:32:52 | 60.04 | 53.74 | 598 | 3.31 | 0.38 | 32.7 |
| 4/19/2015 | 13:32:53 | 60.37 | 54.07 | 583 | 3.12 | 0.37 | 31.9 |
| 4/19/2015 | 13:32:54 | 60.70 | 54.40 | 587 | 3.50 | 0.38 | 32.1 |
| 4/19/2015 | 13:32:54 | 61.02 | 54.72 | 575 | 2.86 | 0.37 | 31.5 |
| 4/19/2015 | 13:32:55 | 61.35 | 55.05 | 578 | 3.98 | 0.40 | 31.6 |
| 4/19/2015 | 13:32:56 | 61.48 | 55.18 | 544 | 3.47 | 0.38 | 29.7 |

## D1008 - Summary

**Pattern Number:**
AreaD_Additional-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 13:30:45

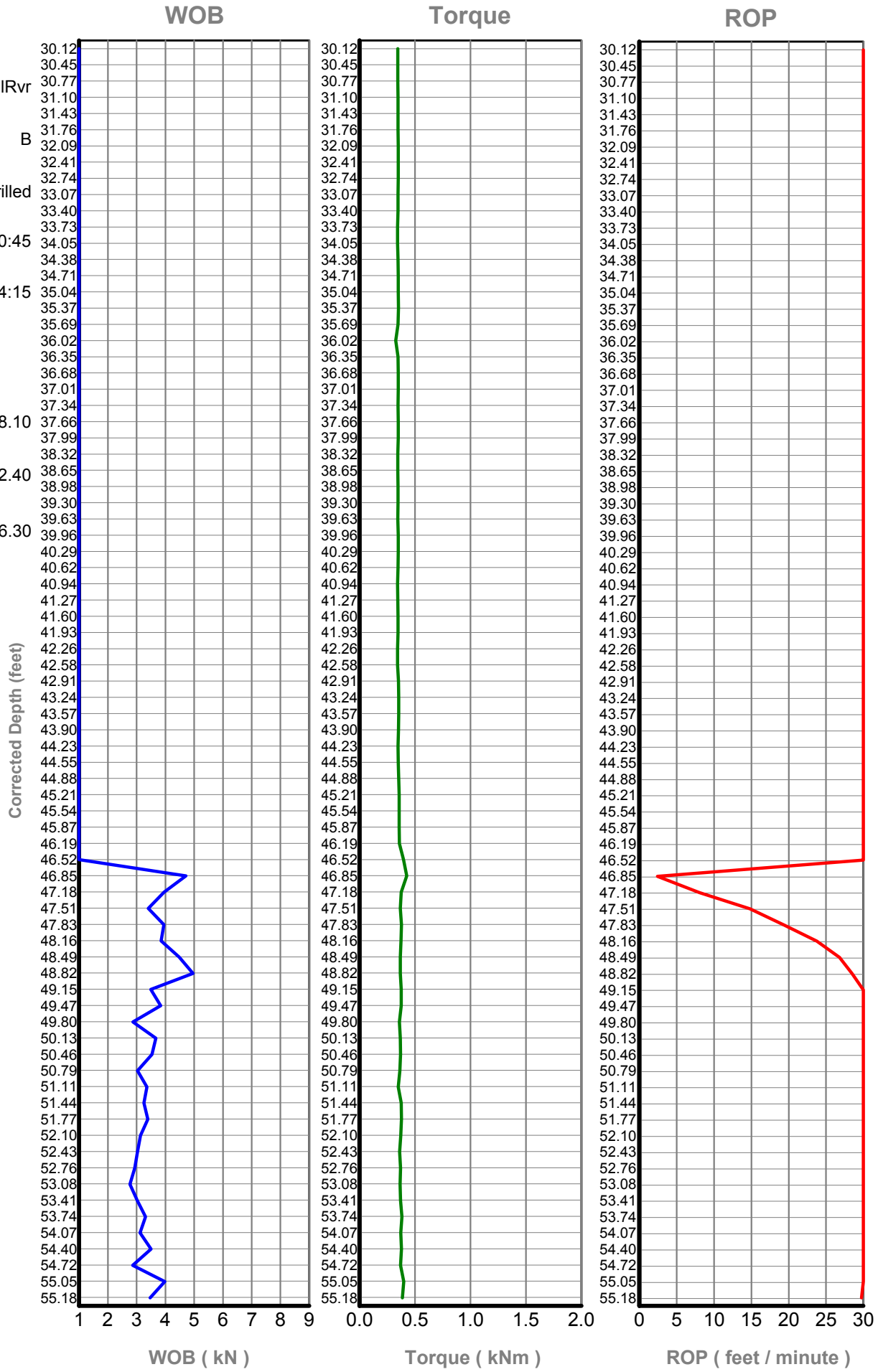
**End Date:**
4/19/2015 13:34:15

**Operator Note:**
'6.3 6.4 b No rock'

**Northing:**
370,128.10

**Easting:**
256,032.40

**Tide (feet):**
6.30



## Hole: D11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 6:31:22 | 31.17 | 30.07 | 965 | 0.20 | 0.34 | 52.8 |
| 4/18/2015 6:31:23 | 31.50 | 30.40 | 968 | 0.20 | 0.34 | 53.0 |
| 4/18/2015 6:31:23 | 31.82 | 30.72 | 968 | 0.20 | 0.34 | 53.0 |
| 4/18/2015 6:31:23 | 32.15 | 31.05 | 966 | 0.20 | 0.34 | 52.8 |
| 4/18/2015 6:31:24 | 32.48 | 31.38 | 963 | 0.20 | 0.34 | 52.6 |
| 4/18/2015 6:31:24 | 32.81 | 31.71 | 963 | 0.20 | 0.34 | 52.6 |
| 4/18/2015 6:31:24 | 33.14 | 32.04 | 972 | 0.20 | 0.34 | 53.1 |
| 4/18/2015 6:31:25 | 33.46 | 32.36 | 966 | 0.20 | 0.34 | 52.8 |
| 4/18/2015 6:31:26 | 33.79 | 32.69 | 960 | 0.20 | 0.33 | 52.5 |
| 4/18/2015 6:31:26 | 34.12 | 33.02 | 960 | 0.20 | 0.33 | 52.5 |
| 4/18/2015 6:31:26 | 34.45 | 33.35 | 960 | 0.20 | 0.34 | 52.5 |
| 4/18/2015 6:31:27 | 34.78 | 33.68 | 957 | 0.20 | 0.34 | 52.3 |
| 4/18/2015 6:31:27 | 35.11 | 34.01 | 957 | 0.20 | 0.34 | 52.3 |
| 4/18/2015 6:31:27 | 35.43 | 34.33 | 948 | 0.20 | 0.34 | 51.8 |
| 4/18/2015 6:31:28 | 35.76 | 34.66 | 942 | 0.20 | 0.34 | 51.5 |
| 4/18/2015 6:31:28 | 36.09 | 34.99 | 939 | 0.20 | 0.34 | 51.4 |
| 4/18/2015 6:31:29 | 36.42 | 35.32 | 939 | 0.20 | 0.34 | 51.4 |
| 4/18/2015 6:32:08 | 36.75 | 35.65 | 46 | 3.71 | 0.42 | 2.5 |
| 4/18/2015 6:32:15 | 37.07 | 35.97 | 61 | 3.95 | 0.43 | 3.3 |
| 4/18/2015 6:32:22 | 37.40 | 36.30 | 44 | 3.89 | 0.43 | 2.4 |
| 4/18/2015 6:32:28 | 37.63 | 36.53 | 44 | 3.58 | 0.42 | 2.4 |

## D11 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 6:29:43

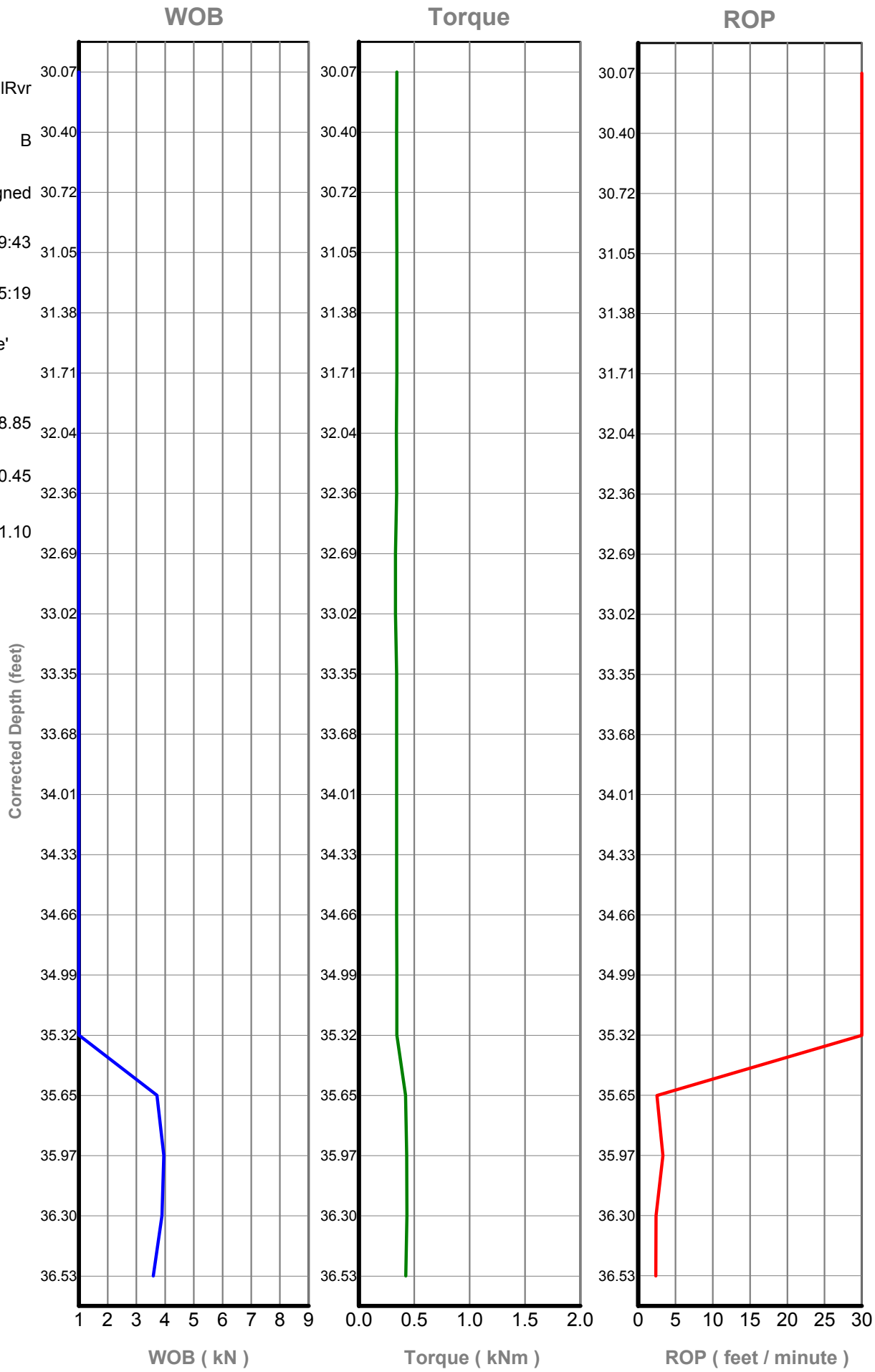
**End Date:**
4/18/2015 6:35:19

**Operator Note:**
'1.1 2.5 b Auto Complete'

**Northing:**
370,208.85

**Easting:**
255,680.45

**Tide (feet):**
1.10



## Hole: D12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 6:21:12 | 31.50 | 30.10 | 204 | 2.16 | 0.13 | 11.1 |
| 4/18/2015 6:21:13 | 31.82 | 30.42 | 204 | 2.16 | 0.13 | 11.1 |
| 4/18/2015 6:21:13 | 32.15 | 30.75 | 314 | 2.15 | 0.13 | 17.1 |
| 4/18/2015 6:21:13 | 32.48 | 31.08 | 432 | 2.16 | 0.13 | 23.6 |
| 4/18/2015 6:21:14 | 32.81 | 31.41 | 550 | 2.17 | 0.13 | 30.0 |
| 4/18/2015 6:21:15 | 33.14 | 31.74 | 575 | 2.14 | 0.13 | 31.4 |
| 4/18/2015 6:21:15 | 33.46 | 32.06 | 572 | 2.14 | 0.13 | 31.3 |
| 4/18/2015 6:21:16 | 33.79 | 32.39 | 576 | 2.16 | 0.13 | 31.5 |
| 4/18/2015 6:21:16 | 34.12 | 32.72 | 572 | 2.15 | 0.13 | 31.3 |
| 4/18/2015 6:21:17 | 34.45 | 33.05 | 569 | 2.16 | 0.13 | 31.1 |
| 4/18/2015 6:21:18 | 34.78 | 33.38 | 569 | 2.14 | 0.13 | 31.1 |
| 4/18/2015 6:21:19 | 35.11 | 33.71 | 567 | 2.15 | 0.13 | 31.0 |
| 4/18/2015 6:21:19 | 35.43 | 34.03 | 567 | 2.14 | 0.13 | 31.0 |
| 4/18/2015 6:21:20 | 35.76 | 34.36 | 567 | 2.15 | 0.13 | 31.0 |
| 4/18/2015 6:21:53 | 36.09 | 34.69 | 34 | 2.31 | 1.22 | 1.9 |
| 4/18/2015 6:21:59 | 36.42 | 35.02 | 58 | 2.36 | 1.45 | 3.2 |
| 4/18/2015 6:22:14 | 36.75 | 35.35 | 54 | 2.37 | 1.26 | 3.0 |
| 4/18/2015 6:22:19 | 37.00 | 35.60 | 43 | 2.35 | 1.12 | 2.4 |

## D12 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 6:16:53

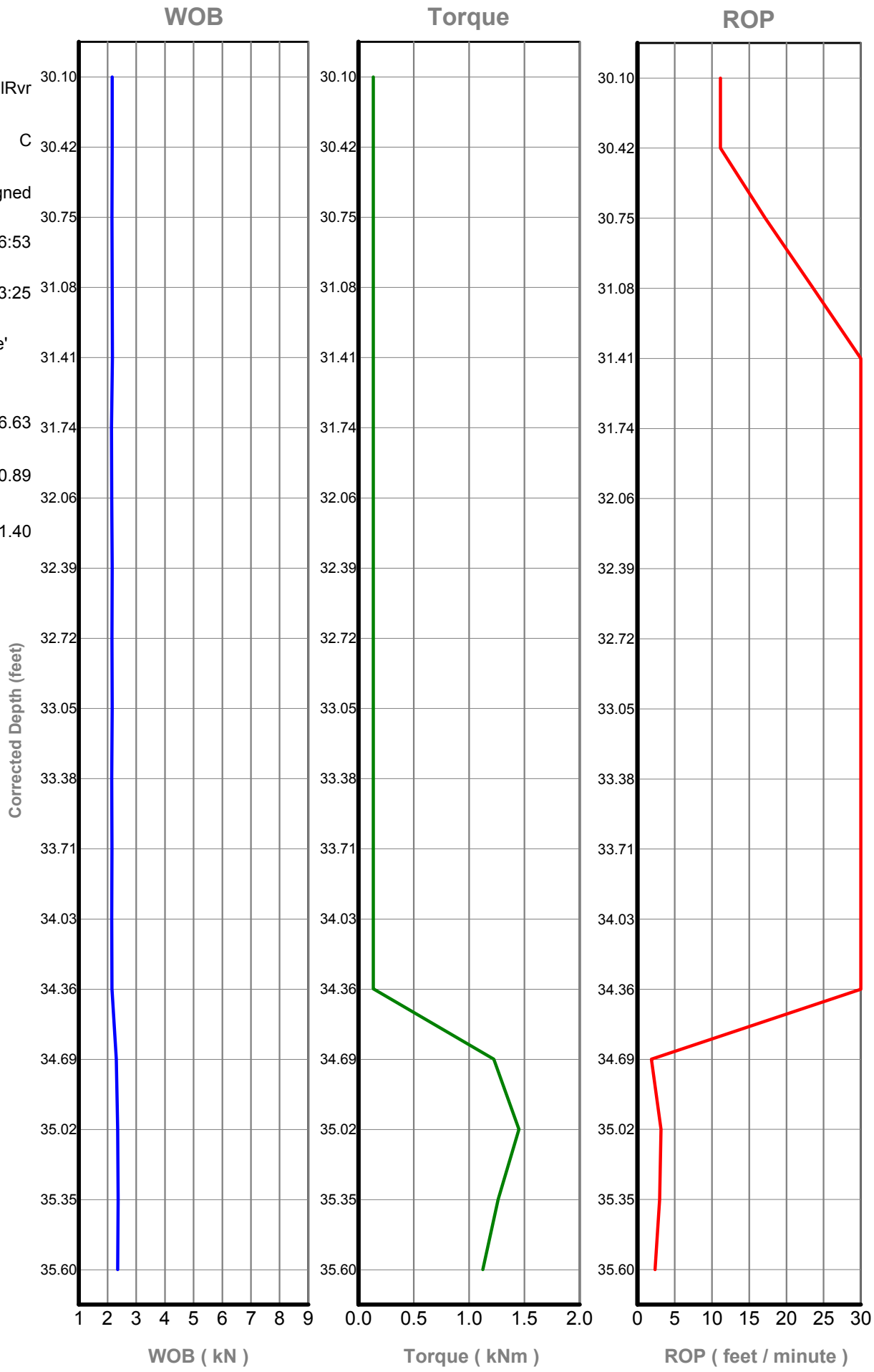
**End Date:**
4/18/2015 6:23:25

**Operator Note:**
'1.4 2.5 c Auto Complete'

**Northing:**
370,236.63

**Easting:**
255,740.89

**Tide (feet):**
1.40



## Hole: D13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 2:26:01 | 36.42 | 30.22 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/19/2015 2:26:01 | 36.75 | 30.55 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:26:01 | 37.07 | 30.87 | 1,100 | 0.24 | 0.37 | 60.2 |
| 4/19/2015 2:26:02 | 37.40 | 31.20 | 1,100 | 0.24 | 0.37 | 60.2 |
| 4/19/2015 2:26:02 | 37.73 | 31.53 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/19/2015 2:26:02 | 38.06 | 31.86 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/19/2015 2:26:03 | 38.39 | 32.19 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/19/2015 2:26:07 | 38.71 | 32.51 | 44 | 0.24 | 0.37 | 2.4 |
| 4/19/2015 2:26:07 | 39.04 | 32.84 | 44 | 0.24 | 0.37 | 2.4 |
| 4/19/2015 2:26:07 | 39.37 | 33.17 | 242 | 0.24 | 0.37 | 13.2 |
| 4/19/2015 2:26:08 | 39.70 | 33.50 | 242 | 0.24 | 0.37 | 13.2 |
| 4/19/2015 2:26:10 | 40.03 | 33.83 | 384 | 0.24 | 0.37 | 21.0 |
| 4/19/2015 2:26:10 | 40.35 | 34.15 | 384 | 0.24 | 0.37 | 21.0 |
| 4/19/2015 2:26:11 | 40.68 | 34.48 | 384 | 0.24 | 0.37 | 21.0 |
| 4/19/2015 2:26:11 | 41.01 | 34.81 | 403 | 0.24 | 0.37 | 22.0 |
| 4/19/2015 2:26:12 | 41.34 | 35.14 | 403 | 0.24 | 0.37 | 22.0 |
| 4/19/2015 2:26:12 | 41.67 | 35.47 | 483 | 0.24 | 0.37 | 26.4 |
| 4/19/2015 2:26:12 | 41.99 | 35.79 | 483 | 0.24 | 0.37 | 26.4 |
| 4/19/2015 2:26:13 | 42.32 | 36.12 | 483 | 0.24 | 0.37 | 26.4 |
| 4/19/2015 2:26:13 | 42.65 | 36.45 | 706 | 0.24 | 0.37 | 38.6 |
| 4/19/2015 2:26:13 | 42.98 | 36.78 | 917 | 0.24 | 0.37 | 50.1 |
| 4/19/2015 2:26:14 | 43.31 | 37.11 | 917 | 0.24 | 0.37 | 50.1 |
| 4/19/2015 2:26:14 | 43.64 | 37.44 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/19/2015 2:26:14 | 43.96 | 37.76 | 1,060 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 2:26:15 | 44.29 | 38.09 | 1,060 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 2:26:15 | 44.62 | 38.42 | 1,060 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 2:26:15 | 44.95 | 38.75 | 1,060 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 2:26:15 | 45.28 | 39.08 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 2:26:16 | 45.60 | 39.40 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 2:26:16 | 45.93 | 39.73 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 2:26:17 | 46.26 | 40.06 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 2:26:17 | 46.59 | 40.39 | 1,039 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 2:26:17 | 46.92 | 40.72 | 1,039 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 2:26:18 | 47.24 | 41.04 | 1,039 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 2:26:18 | 47.57 | 41.37 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 2:26:18 | 47.90 | 41.70 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 2:26:18 | 48.23 | 42.03 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 2:26:19 | 48.56 | 42.36 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 2:26:19 | 48.88 | 42.68 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 2:26:19 | 49.21 | 43.01 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 2:26:20 | 49.54 | 43.34 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:26:20 | 49.87 | 43.67 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:26:25 | 50.20 | 44.00 | 3 | 0.24 | 0.37 | 0.2 |
| 4/19/2015 2:52:17 | 50.53 | 44.33 | 89 | 0.24 | 0.37 | 4.8 |
| 4/19/2015 2:52:18 | 50.85 | 44.65 | 189 | 0.24 | 0.37 | 10.3 |
| 4/19/2015 2:52:19 | 51.18 | 44.98 | 392 | 0.24 | 0.37 | 21.4 |
| 4/19/2015 2:52:19 | 51.51 | 45.31 | 495 | 0.24 | 0.37 | 27.0 |
| 4/19/2015 2:52:21 | 51.84 | 45.64 | 275 | 0.24 | 0.37 | 15.0 |
| 4/19/2015 2:52:24 | 52.17 | 45.97 | 129 | 0.24 | 0.37 | 7.0 |
| 4/19/2015 2:52:26 | 52.49 | 46.29 | 193 | 0.24 | 0.37 | 10.5 |
| 4/19/2015 2:52:27 | 52.82 | 46.62 | 194 | 0.24 | 0.37 | 10.6 |
| 4/19/2015 2:52:30 | 53.15 | 46.95 | 151 | 0.24 | 0.37 | 8.3 |
| 4/19/2015 2:52:31 | 53.48 | 47.28 | 148 | 0.24 | 0.37 | 8.1 |
| 4/19/2015 2:52:33 | 53.81 | 47.61 | 265 | 0.24 | 0.37 | 14.5 |
| 4/19/2015 2:52:33 | 54.13 | 47.93 | 354 | 0.24 | 0.37 | 19.4 |
| 4/19/2015 2:52:35 | 54.46 | 48.26 | 372 | 0.24 | 0.37 | 20.3 |
| 4/19/2015 2:52:36 | 54.79 | 48.59 | 378 | 0.24 | 0.37 | 20.7 |
| 4/19/2015 2:52:36 | 55.12 | 48.92 | 373 | 0.24 | 0.37 | 20.4 |
| 4/19/2015 2:52:37 | 55.45 | 49.25 | 444 | 0.24 | 0.37 | 24.3 |
| 4/19/2015 2:52:37 | 55.77 | 49.57 | 524 | 0.24 | 0.37 | 28.6 |
| 4/19/2015 2:52:38 | 56.10 | 49.90 | 571 | 0.24 | 0.37 | 31.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 2:52:39 | 56.43 | 50.23 | 541 | 0.24 | 0.37 | 29.6 |
| 4/19/2015 | 2:55:25 | 56.76 | 50.56 | 67 | 0.24 | 0.37 | 3.7 |
| 4/19/2015 | 2:55:27 | 57.09 | 50.89 | 169 | 0.24 | 0.37 | 9.2 |
| 4/19/2015 | 2:55:29 | 57.41 | 51.21 | 114 | 0.24 | 0.37 | 6.2 |
| 4/19/2015 | 2:55:35 | 57.74 | 51.54 | 41 | 0.24 | 0.37 | 2.2 |
| 4/19/2015 | 2:55:43 | 58.07 | 51.87 | 35 | 0.24 | 0.37 | 1.9 |
| 4/19/2015 | 2:55:44 | 58.40 | 52.20 | 159 | 0.24 | 0.37 | 8.7 |
| 4/19/2015 | 2:55:45 | 58.73 | 52.53 | 257 | 0.24 | 0.37 | 14.1 |
| 4/19/2015 | 2:55:47 | 59.06 | 52.86 | 300 | 0.24 | 0.37 | 16.4 |
| 4/19/2015 | 2:55:48 | 59.38 | 53.18 | 285 | 0.24 | 0.37 | 15.6 |
| 4/19/2015 | 2:55:49 | 59.71 | 53.51 | 267 | 0.24 | 0.37 | 14.6 |
| 4/19/2015 | 2:55:51 | 60.04 | 53.84 | 237 | 0.24 | 0.37 | 13.0 |
| 4/19/2015 | 2:55:52 | 60.37 | 54.17 | 237 | 0.24 | 0.37 | 12.9 |
| 4/19/2015 | 2:55:54 | 60.70 | 54.50 | 241 | 0.24 | 0.37 | 13.2 |
| 4/19/2015 | 2:55:56 | 61.02 | 54.82 | 231 | 0.24 | 0.37 | 12.6 |
| 4/19/2015 | 2:55:57 | 61.35 | 55.15 | 236 | 0.24 | 0.37 | 12.9 |
| 4/19/2015 | 2:55:58 | 61.49 | 55.29 | 228 | 0.24 | 0.37 | 12.5 |

## D13 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 2:19:54

**End Date:**
4/19/2015 2:59:43

**Operator Note:**
'6.2 6.25 b Auto Complete'

**Northing:**
369,819.69

**Easting:**
255,026.43

**Tide (feet):**
6.20



## Hole: D14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 3:04:58 | 35.76 | 30.26 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:04:58 | 36.09 | 30.59 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:04:59 | 36.42 | 30.92 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 3:04:59 | 36.75 | 31.25 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 3:04:59 | 37.07 | 31.57 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 3:05:00 | 37.40 | 31.90 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 3:05:00 | 37.73 | 32.23 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 3:05:00 | 38.06 | 32.56 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:01 | 38.39 | 32.89 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:01 | 38.71 | 33.21 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:01 | 39.04 | 33.54 | 1,062 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:02 | 39.37 | 33.87 | 1,062 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:02 | 39.70 | 34.20 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/19/2015 3:05:03 | 40.03 | 34.53 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:03 | 40.35 | 34.85 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:03 | 40.68 | 35.18 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:04 | 41.01 | 35.51 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:04 | 41.34 | 35.84 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:04 | 41.67 | 36.17 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:05 | 41.99 | 36.49 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 3:05:05 | 42.32 | 36.82 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 3:05:05 | 42.65 | 37.15 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 3:05:06 | 42.98 | 37.48 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:06 | 43.31 | 37.81 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:06 | 43.64 | 38.14 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/19/2015 3:05:07 | 43.96 | 38.46 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 3:05:07 | 44.29 | 38.79 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 3:05:07 | 44.62 | 39.12 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:05:08 | 44.95 | 39.45 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:08 | 45.28 | 39.78 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:08 | 45.60 | 40.10 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:09 | 45.93 | 40.43 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:09 | 46.26 | 40.76 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:09 | 46.59 | 41.09 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:10 | 46.92 | 41.42 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 3:05:10 | 47.24 | 41.74 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:10 | 47.57 | 42.07 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 3:05:11 | 47.90 | 42.40 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 3:05:11 | 48.23 | 42.73 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 3:05:11 | 48.56 | 43.06 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 3:05:12 | 48.88 | 43.38 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 3:05:12 | 49.21 | 43.71 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:05:12 | 49.54 | 44.04 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:05:13 | 49.87 | 44.37 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:05:13 | 50.20 | 44.70 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 3:05:14 | 50.53 | 45.03 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 3:05:14 | 50.85 | 45.35 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/19/2015 3:05:14 | 51.18 | 45.68 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/19/2015 3:05:15 | 51.51 | 46.01 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:15 | 51.84 | 46.34 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:15 | 52.17 | 46.67 | 1,062 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 3:05:16 | 52.49 | 46.99 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 3:05:16 | 52.82 | 47.32 | 983 | 0.24 | 0.37 | 53.7 |
| 4/19/2015 3:05:17 | 53.15 | 47.65 | 983 | 0.24 | 0.37 | 53.7 |
| 4/19/2015 3:05:17 | 53.48 | 47.98 | 910 | 0.24 | 0.37 | 49.8 |
| 4/19/2015 3:05:17 | 53.81 | 48.31 | 858 | 0.24 | 0.37 | 46.9 |
| 4/19/2015 3:05:18 | 54.13 | 48.63 | 783 | 0.24 | 0.37 | 42.8 |
| 4/19/2015 3:05:18 | 54.46 | 48.96 | 727 | 0.24 | 0.37 | 39.7 |
| 4/19/2015 3:05:19 | 54.79 | 49.29 | 714 | 0.24 | 0.37 | 39.0 |
| 4/19/2015 3:05:20 | 55.12 | 49.62 | 630 | 0.24 | 0.37 | 34.5 |
| 4/19/2015 3:05:23 | 55.45 | 49.95 | 90 | 0.24 | 0.37 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 3:05:28 | 55.77 | 50.27 | 61 | 0.24 | 0.37 | 3.3 |
| 4/19/2015 | 3:05:31 | 56.10 | 50.60 | 174 | 0.24 | 0.37 | 9.5 |
| 4/19/2015 | 3:05:33 | 56.43 | 50.93 | 131 | 0.24 | 0.37 | 7.2 |
| 4/19/2015 | 3:05:34 | 56.76 | 51.26 | 177 | 0.24 | 0.37 | 9.7 |
| 4/19/2015 | 3:05:35 | 57.09 | 51.59 | 260 | 0.24 | 0.37 | 14.2 |
| 4/19/2015 | 3:05:36 | 57.41 | 51.91 | 328 | 0.24 | 0.37 | 18.0 |
| 4/19/2015 | 3:05:36 | 57.74 | 52.24 | 394 | 0.24 | 0.37 | 21.5 |
| 4/19/2015 | 3:05:39 | 58.07 | 52.57 | 209 | 0.24 | 0.37 | 11.4 |
| 4/19/2015 | 3:05:41 | 58.40 | 52.90 | 169 | 0.24 | 0.37 | 9.2 |
| 4/19/2015 | 3:05:44 | 58.73 | 53.23 | 128 | 0.24 | 0.37 | 7.0 |
| 4/19/2015 | 3:05:45 | 59.06 | 53.56 | 176 | 0.24 | 0.37 | 9.6 |
| 4/19/2015 | 3:05:47 | 59.38 | 53.88 | 216 | 0.24 | 0.37 | 11.8 |
| 4/19/2015 | 3:05:49 | 59.71 | 54.21 | 218 | 0.24 | 0.37 | 11.9 |
| 4/19/2015 | 3:05:50 | 60.04 | 54.54 | 229 | 0.24 | 0.37 | 12.5 |
| 4/19/2015 | 3:05:52 | 60.37 | 54.87 | 271 | 0.24 | 0.37 | 14.8 |
| 4/19/2015 | 3:05:56 | 60.61 | 55.11 | 61 | 0.24 | 0.37 | 3.3 |

## D14 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 2:59:58

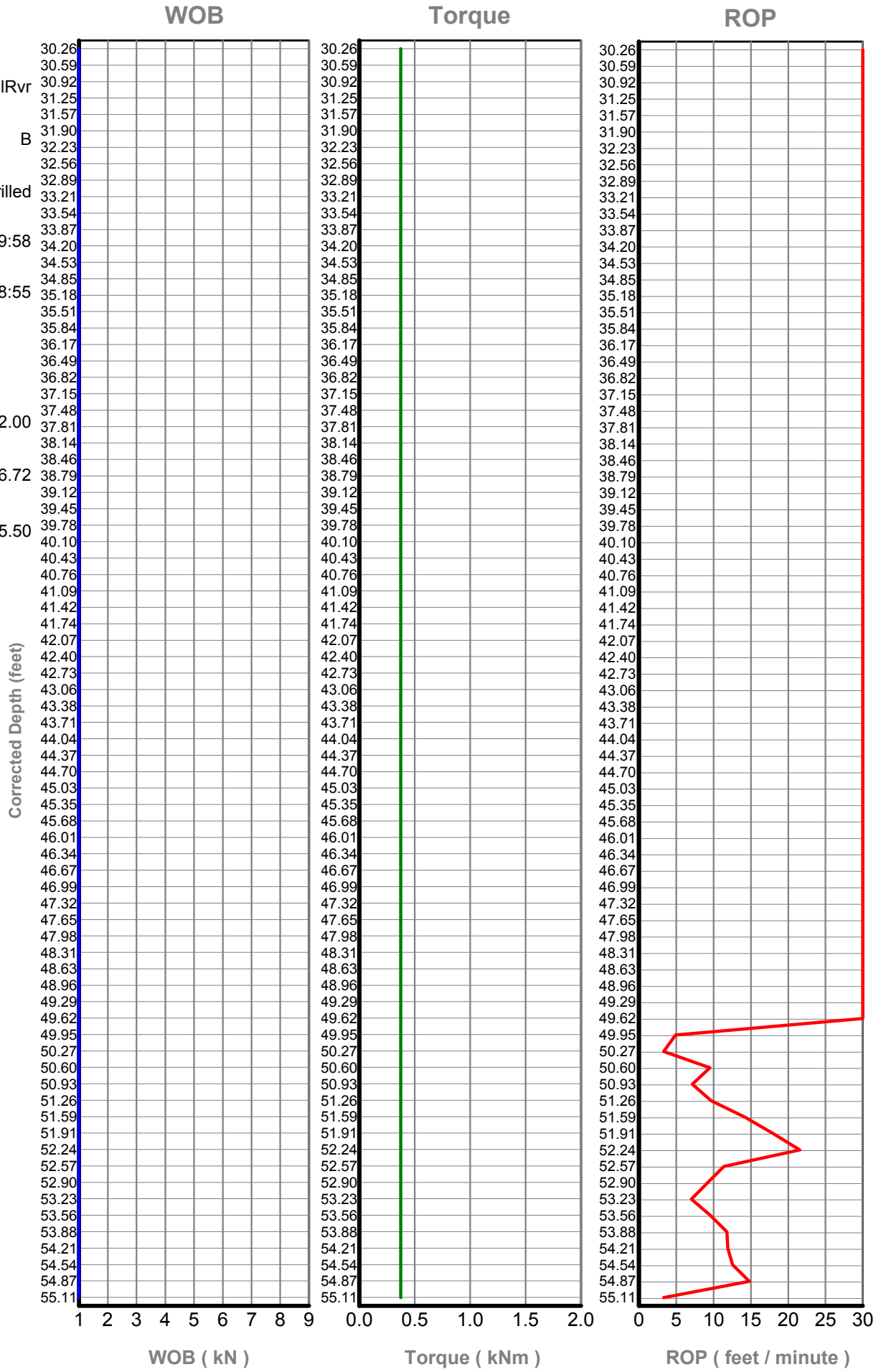
**End Date:**
4/19/2015 3:08:55

**Operator Note:**
'5.5 5.55 b redrill Auto Complete'

**Northing:**
369,852.00

**Easting:**
255,096.72

**Tide (feet):**
5.50



## Hole: D15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 2:24:50 | 36.42 | 30.22 | 671 | 1.59 | 0.13 | 36.7 |
| 4/19/2015 2:24:50 | 36.75 | 30.55 | 671 | 1.59 | 0.13 | 36.7 |
| 4/19/2015 2:24:51 | 37.07 | 30.87 | 685 | 1.60 | 0.13 | 37.5 |
| 4/19/2015 2:24:51 | 37.40 | 31.20 | 675 | 1.59 | 0.13 | 36.9 |
| 4/19/2015 2:24:52 | 37.73 | 31.53 | 678 | 1.61 | 0.13 | 37.1 |
| 4/19/2015 2:24:52 | 38.06 | 31.86 | 672 | 1.59 | 0.13 | 36.7 |
| 4/19/2015 2:24:53 | 38.39 | 32.19 | 672 | 1.60 | 0.13 | 36.7 |
| 4/19/2015 2:24:53 | 38.71 | 32.51 | 688 | 1.59 | 0.13 | 37.6 |
| 4/19/2015 2:24:54 | 39.04 | 32.84 | 688 | 1.59 | 0.13 | 37.6 |
| 4/19/2015 2:24:54 | 39.37 | 33.17 | 683 | 1.59 | 0.13 | 37.4 |
| 4/19/2015 2:24:55 | 39.70 | 33.50 | 684 | 1.60 | 0.13 | 37.4 |
| 4/19/2015 2:24:55 | 40.03 | 33.83 | 679 | 1.60 | 0.13 | 37.1 |
| 4/19/2015 2:24:56 | 40.35 | 34.15 | 691 | 1.61 | 0.13 | 37.8 |
| 4/19/2015 2:24:57 | 40.68 | 34.48 | 693 | 1.59 | 0.13 | 37.9 |
| 4/19/2015 2:24:57 | 41.01 | 34.81 | 685 | 1.60 | 0.13 | 37.5 |
| 4/19/2015 2:24:58 | 41.34 | 35.14 | 688 | 1.59 | 0.13 | 37.6 |
| 4/19/2015 2:24:58 | 41.67 | 35.47 | 689 | 1.60 | 0.13 | 37.7 |
| 4/19/2015 2:24:59 | 41.99 | 35.79 | 688 | 1.61 | 0.13 | 37.6 |
| 4/19/2015 2:24:59 | 42.32 | 36.12 | 681 | 1.60 | 0.21 | 37.2 |
| 4/19/2015 2:25:00 | 42.65 | 36.45 | 688 | 1.60 | 0.13 | 37.6 |
| 4/19/2015 2:25:00 | 42.98 | 36.78 | 685 | 1.61 | 0.13 | 37.5 |
| 4/19/2015 2:25:01 | 43.31 | 37.11 | 685 | 1.59 | 0.13 | 37.5 |
| 4/19/2015 2:25:01 | 43.64 | 37.44 | 682 | 1.60 | 0.13 | 37.3 |
| 4/19/2015 2:25:02 | 43.96 | 37.76 | 685 | 1.62 | 0.13 | 37.5 |
| 4/19/2015 2:25:02 | 44.29 | 38.09 | 682 | 1.59 | 0.13 | 37.3 |
| 4/19/2015 2:25:03 | 44.62 | 38.42 | 682 | 1.59 | 0.13 | 37.3 |
| 4/19/2015 2:25:03 | 44.95 | 38.75 | 678 | 1.60 | 0.13 | 37.1 |
| 4/19/2015 2:25:04 | 45.28 | 39.08 | 685 | 1.59 | 0.13 | 37.5 |
| 4/19/2015 2:25:04 | 45.60 | 39.40 | 682 | 1.61 | 0.13 | 37.3 |
| 4/19/2015 2:25:05 | 45.93 | 39.73 | 682 | 1.60 | 0.13 | 37.3 |
| 4/19/2015 2:25:05 | 46.26 | 40.06 | 682 | 1.60 | 0.13 | 37.3 |
| 4/19/2015 2:25:06 | 46.59 | 40.39 | 682 | 1.62 | 0.13 | 37.3 |
| 4/19/2015 2:25:33 | 46.92 | 40.72 | 0 | 1.66 | 1.10 | 0.0 |
| 4/19/2015 2:25:34 | 47.24 | 41.04 | 171 | 1.67 | 1.06 | 9.4 |
| 4/19/2015 2:25:56 | 47.57 | 41.37 | 0 | 1.70 | 0.96 | 0.0 |
| 4/19/2015 2:25:57 | 47.90 | 41.70 | 79 | 1.70 | 1.06 | 4.3 |
| 4/19/2015 2:25:58 | 48.23 | 42.03 | 146 | 1.71 | 1.08 | 8.0 |
| 4/19/2015 2:26:00 | 48.56 | 42.36 | 302 | 1.80 | 0.98 | 16.5 |
| 4/19/2015 2:26:12 | 48.88 | 42.68 | 57 | 1.74 | 1.12 | 3.1 |
| 4/19/2015 2:26:13 | 49.21 | 43.01 | 202 | 1.73 | 1.16 | 11.0 |
| 4/19/2015 2:26:14 | 49.54 | 43.34 | 352 | 1.76 | 1.09 | 19.3 |
| 4/19/2015 2:26:26 | 49.87 | 43.67 | 52 | 1.72 | 1.05 | 2.8 |
| 4/19/2015 2:26:26 | 50.20 | 44.00 | 126 | 1.73 | 1.07 | 6.9 |
| 4/19/2015 2:26:27 | 50.53 | 44.33 | 282 | 1.76 | 1.15 | 15.4 |
| 4/19/2015 2:26:28 | 50.85 | 44.65 | 376 | 1.75 | 1.13 | 20.5 |
| 4/19/2015 2:26:53 | 51.18 | 44.98 | 31 | 1.80 | 1.03 | 1.7 |
| 4/19/2015 2:26:56 | 51.51 | 45.31 | 104 | 1.82 | 1.18 | 5.7 |
| 4/19/2015 2:26:57 | 51.84 | 45.64 | 195 | 1.71 | 0.93 | 10.7 |
| 4/19/2015 2:26:58 | 52.17 | 45.97 | 281 | 1.68 | 1.04 | 15.4 |
| 4/19/2015 2:27:02 | 52.49 | 46.29 | 21 | 1.74 | 1.14 | 1.1 |
| 4/19/2015 2:27:03 | 52.82 | 46.62 | 77 | 1.74 | 1.16 | 4.2 |
| 4/19/2015 2:27:04 | 53.15 | 46.95 | 245 | 1.68 | 0.87 | 13.4 |
| 4/19/2015 2:27:05 | 53.48 | 47.28 | 354 | 1.70 | 0.92 | 19.3 |
| 4/19/2015 2:27:05 | 53.81 | 47.61 | 434 | 1.68 | 0.89 | 23.7 |
| 4/19/2015 2:27:09 | 54.13 | 47.93 | 103 | 1.62 | 0.88 | 5.6 |
| 4/19/2015 2:27:10 | 54.46 | 48.26 | 220 | 1.66 | 0.95 | 12.0 |
| 4/19/2015 2:27:10 | 54.79 | 48.59 | 329 | 1.66 | 1.04 | 18.0 |
| 4/19/2015 2:27:14 | 55.12 | 48.92 | 98 | 1.79 | 1.10 | 5.4 |
| 4/19/2015 2:27:15 | 55.45 | 49.25 | 166 | 1.77 | 1.21 | 9.1 |
| 4/19/2015 2:27:28 | 55.77 | 49.57 | 0 | 1.79 | 1.13 | 0.0 |
| 4/19/2015 2:27:30 | 56.10 | 49.90 | 155 | 1.78 | 1.09 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 2:27:31 | 56.43 | 50.23 | 155 | 1.79 | 1.04 | 8.5 |
| 4/19/2015 | 2:27:33 | 56.76 | 50.56 | 257 | 1.84 | 1.41 | 14.0 |
| 4/19/2015 | 2:27:35 | 57.09 | 50.89 | 195 | 1.81 | 1.11 | 10.6 |
| 4/19/2015 | 2:27:36 | 57.41 | 51.21 | 203 | 1.80 | 1.17 | 11.1 |
| 4/19/2015 | 2:27:38 | 57.74 | 51.54 | 224 | 1.79 | 1.14 | 12.3 |
| 4/19/2015 | 2:27:39 | 58.07 | 51.87 | 265 | 1.81 | 1.05 | 14.5 |
| 4/19/2015 | 2:27:40 | 58.40 | 52.20 | 281 | 1.81 | 1.07 | 15.4 |
| 4/19/2015 | 2:27:41 | 58.73 | 52.53 | 279 | 1.81 | 1.11 | 15.3 |
| 4/19/2015 | 2:27:43 | 59.06 | 52.86 | 258 | 1.81 | 1.08 | 14.1 |
| 4/19/2015 | 2:27:45 | 59.38 | 53.18 | 246 | 1.82 | 1.13 | 13.4 |
| 4/19/2015 | 2:27:46 | 59.71 | 53.51 | 224 | 1.81 | 1.14 | 12.3 |
| 4/19/2015 | 2:27:48 | 60.04 | 53.84 | 194 | 1.83 | 1.12 | 10.6 |
| 4/19/2015 | 2:27:50 | 60.37 | 54.17 | 159 | 1.83 | 1.10 | 8.7 |
| 4/19/2015 | 2:27:54 | 60.70 | 54.50 | 102 | 1.85 | 1.18 | 5.6 |
| 4/19/2015 | 2:27:58 | 61.02 | 54.82 | 78 | 1.85 | 1.13 | 4.3 |
| 4/19/2015 | 2:28:03 | 61.30 | 55.10 | 60 | 1.84 | 1.25 | 3.3 |

## D15 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 2:22:20

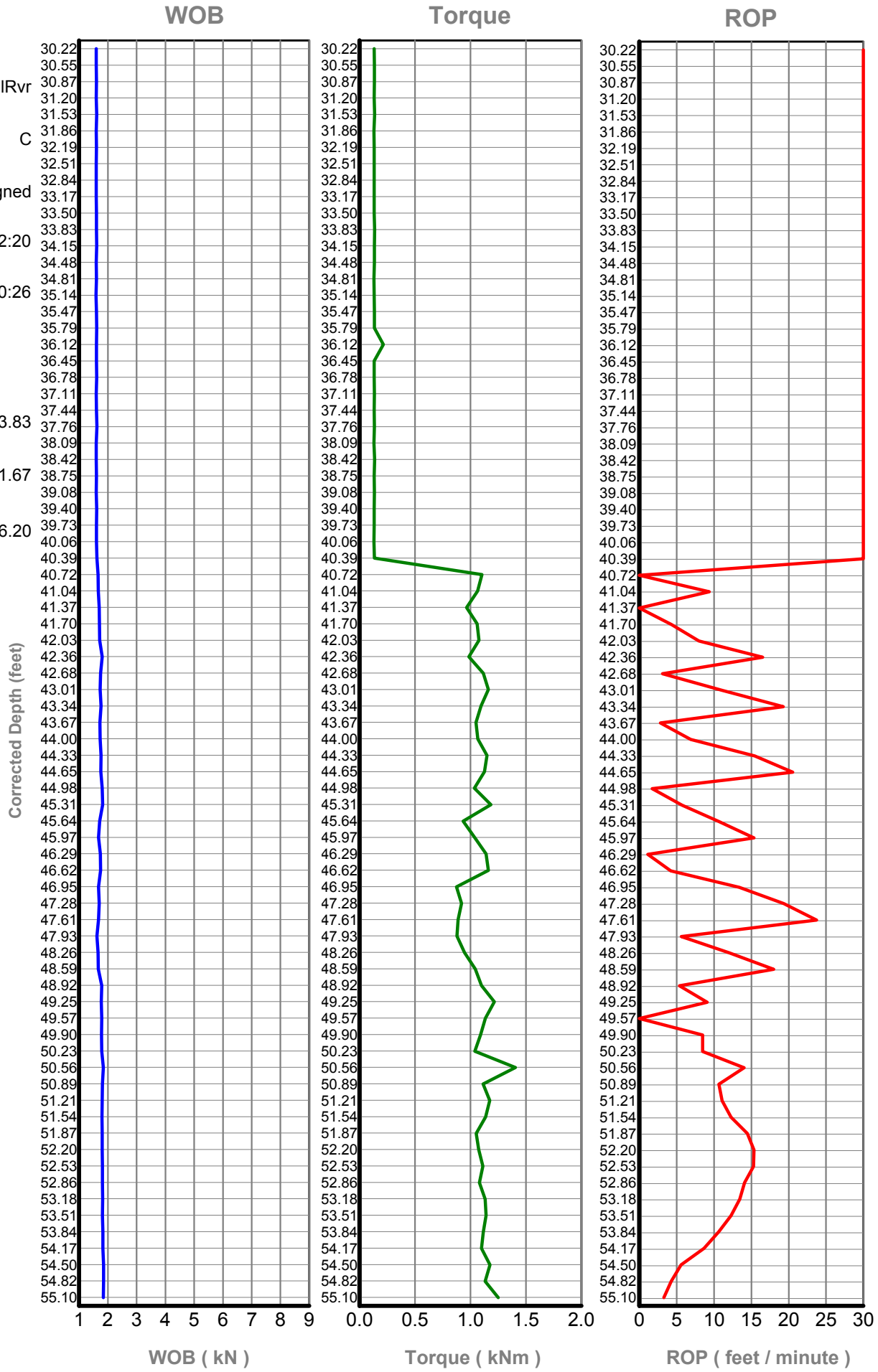
**End Date:**
4/19/2015 2:30:26

**Operator Note:**
'6.2 6.25 c Auto Complete'

**Northing:**
369,883.83

**Easting:**
255,161.67

**Tide (feet):**
6.20



## Hole: D16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:12:05 | 36.09 | 30.29 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:05 | 36.42 | 30.62 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:06 | 36.75 | 30.95 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:06 | 37.07 | 31.27 | 1,089 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 0:12:07 | 37.40 | 31.60 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 0:12:07 | 37.73 | 31.93 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 0:12:07 | 38.06 | 32.26 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:08 | 38.39 | 32.59 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 0:12:08 | 38.71 | 32.91 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 0:12:08 | 39.04 | 33.24 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:09 | 39.37 | 33.57 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:12:09 | 39.70 | 33.90 | 1,054 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 0:12:09 | 40.03 | 34.23 | 1,054 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 0:12:10 | 40.35 | 34.55 | 1,054 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 0:12:10 | 40.68 | 34.88 | 1,060 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 0:12:10 | 41.01 | 35.21 | 1,077 | 0.24 | 0.37 | 58.9 |
| 4/19/2015 0:12:11 | 41.34 | 35.54 | 1,077 | 0.24 | 0.37 | 58.9 |
| 4/19/2015 0:12:11 | 41.67 | 35.87 | 1,085 | 0.24 | 0.37 | 59.4 |
| 4/19/2015 0:12:11 | 41.99 | 36.19 | 1,095 | 0.24 | 0.37 | 59.9 |
| 4/19/2015 0:12:12 | 42.32 | 36.52 | 1,095 | 0.24 | 0.37 | 59.9 |
| 4/19/2015 0:12:12 | 42.65 | 36.85 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 0:12:12 | 42.98 | 37.18 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 0:12:12 | 43.31 | 37.51 | 1,089 | 0.24 | 0.37 | 59.5 |
| 4/19/2015 0:12:13 | 43.64 | 37.84 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 0:12:41 | 43.96 | 38.16 | 9 | 0.24 | 0.37 | 0.5 |
| 4/19/2015 0:12:42 | 44.29 | 38.49 | 9 | 0.24 | 0.37 | 0.5 |
| 4/19/2015 0:12:46 | 44.62 | 38.82 | 90 | 0.24 | 0.37 | 4.9 |
| 4/19/2015 0:12:46 | 44.95 | 39.15 | 90 | 0.24 | 0.37 | 4.9 |
| 4/19/2015 0:12:47 | 45.28 | 39.48 | 248 | 0.24 | 0.37 | 13.5 |
| 4/19/2015 0:12:55 | 45.60 | 39.80 | 50 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 0:13:00 | 45.93 | 40.13 | 67 | 0.24 | 0.37 | 3.7 |
| 4/19/2015 0:13:07 | 46.26 | 40.46 | 49 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 0:13:13 | 46.59 | 40.79 | 49 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 0:13:21 | 46.92 | 41.12 | 47 | 0.24 | 0.37 | 2.6 |

## D16 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 0:07:41

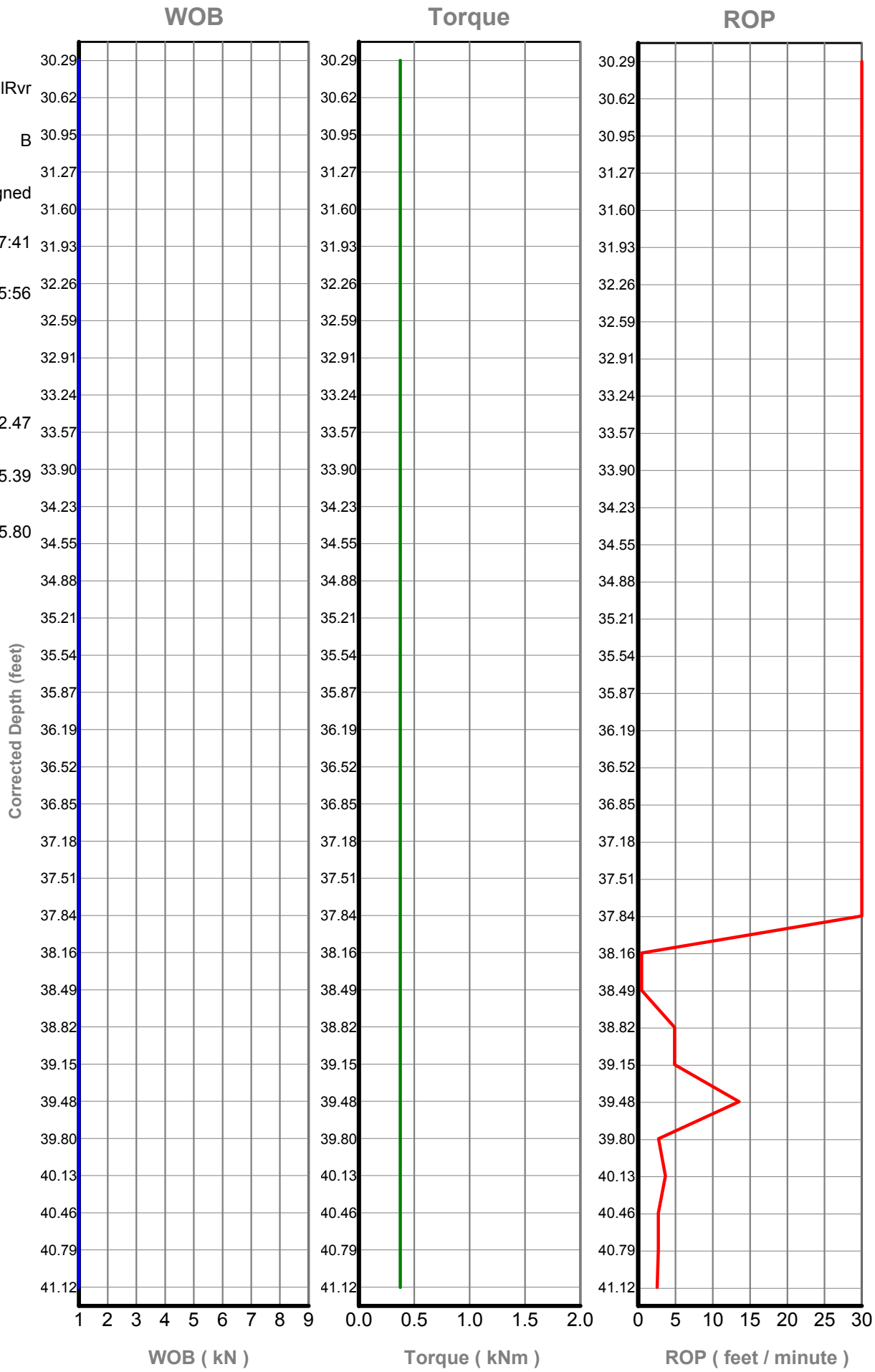
**End Date:**
4/19/2015 0:15:56

**Operator Note:**
'5.8 5.54 b Auto Complete'

**Northing:**
369,922.47

**Easting:**
255,235.39

**Tide (feet):**
5.80



## Hole: D17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:02:20 | 35.11 | 30.11 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 0:02:20 | 35.43 | 30.43 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:20 | 35.76 | 30.76 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:21 | 36.09 | 31.09 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:21 | 36.42 | 31.42 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:21 | 36.75 | 31.75 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:22 | 37.07 | 32.07 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:22 | 37.40 | 32.40 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:22 | 37.73 | 32.73 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:23 | 38.06 | 33.06 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:23 | 38.39 | 33.39 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 0:02:23 | 38.71 | 33.71 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 0:02:24 | 39.04 | 34.04 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 0:02:24 | 39.37 | 34.37 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 0:02:24 | 39.70 | 34.70 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 0:02:25 | 40.03 | 35.03 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 0:02:25 | 40.35 | 35.35 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 0:02:26 | 40.68 | 35.68 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 0:02:26 | 41.01 | 36.01 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 0:02:26 | 41.34 | 36.34 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 0:02:27 | 41.67 | 36.67 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:27 | 41.99 | 36.99 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:27 | 42.32 | 37.32 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 0:02:28 | 42.65 | 37.65 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:28 | 42.98 | 37.98 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:02:28 | 43.31 | 38.31 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 0:02:29 | 43.64 | 38.64 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 0:03:40 | 43.96 | 38.96 | 6 | 0.24 | 0.37 | 0.3 |
| 4/19/2015 0:03:50 | 44.29 | 39.29 | 24 | 0.24 | 0.37 | 1.3 |
| 4/19/2015 0:03:52 | 44.62 | 39.62 | 140 | 0.24 | 0.37 | 7.6 |
| 4/19/2015 0:03:55 | 44.95 | 39.95 | 116 | 0.24 | 0.37 | 6.3 |
| 4/19/2015 0:04:04 | 45.28 | 40.28 | 44 | 0.24 | 0.37 | 2.4 |
| 4/19/2015 0:04:08 | 45.60 | 40.60 | 93 | 0.24 | 0.37 | 5.1 |
| 4/19/2015 0:04:10 | 45.93 | 40.93 | 139 | 0.24 | 0.37 | 7.6 |
| 4/19/2015 0:04:10 | 46.08 | 41.08 | 163 | 0.24 | 0.37 | 8.9 |

## D17 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 23:29:30

**End Date:**
4/19/2015 0:05:43

**Operator Note:**
'5 '5.8 5.54 b Auto Complete'

**Northing:**
369,953.85

**Easting:**
255,303.51

**Tide (feet):**
5.00



## Hole: D18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:02:38 | 35.11 | 30.21 | 646 | 1.61 | 0.12 | 35.3 |
| 4/19/2015 0:02:39 | 35.43 | 30.53 | 650 | 1.61 | 0.12 | 35.5 |
| 4/19/2015 0:02:39 | 35.76 | 30.86 | 653 | 1.62 | 0.12 | 35.7 |
| 4/19/2015 0:02:40 | 36.09 | 31.19 | 654 | 1.60 | 0.12 | 35.7 |
| 4/19/2015 0:02:40 | 36.42 | 31.52 | 647 | 1.62 | 0.12 | 35.4 |
| 4/19/2015 0:02:41 | 36.75 | 31.85 | 657 | 1.61 | 0.12 | 35.9 |
| 4/19/2015 0:02:41 | 37.07 | 32.17 | 659 | 1.60 | 0.12 | 36.0 |
| 4/19/2015 0:02:42 | 37.40 | 32.50 | 656 | 1.61 | 0.12 | 35.9 |
| 4/19/2015 0:02:42 | 37.73 | 32.83 | 656 | 1.63 | 0.12 | 35.9 |
| 4/19/2015 0:02:43 | 38.06 | 33.16 | 656 | 1.61 | 0.12 | 35.9 |
| 4/19/2015 0:02:43 | 38.39 | 33.49 | 659 | 1.63 | 0.12 | 36.0 |
| 4/19/2015 0:02:44 | 38.71 | 33.81 | 649 | 1.62 | 0.12 | 35.5 |
| 4/19/2015 0:02:44 | 39.04 | 34.14 | 653 | 1.61 | 0.12 | 35.7 |
| 4/19/2015 0:02:45 | 39.37 | 34.47 | 652 | 1.61 | 0.12 | 35.7 |
| 4/19/2015 0:02:46 | 39.70 | 34.80 | 656 | 1.62 | 0.12 | 35.9 |
| 4/19/2015 0:02:46 | 40.03 | 35.13 | 663 | 1.61 | 0.12 | 36.3 |
| 4/19/2015 0:02:47 | 40.35 | 35.45 | 659 | 1.61 | 0.13 | 36.0 |
| 4/19/2015 0:02:47 | 40.68 | 35.78 | 659 | 1.62 | 0.12 | 36.0 |
| 4/19/2015 0:02:48 | 41.01 | 36.11 | 656 | 1.60 | 0.12 | 35.9 |
| 4/19/2015 0:02:49 | 41.34 | 36.44 | 656 | 1.38 | 0.12 | 35.9 |
| 4/19/2015 0:02:49 | 41.67 | 36.77 | 649 | 1.62 | 0.12 | 35.5 |
| 4/19/2015 0:02:50 | 41.99 | 37.09 | 656 | 1.61 | 0.12 | 35.9 |
| 4/19/2015 0:02:50 | 42.32 | 37.42 | 653 | 1.61 | 0.12 | 35.7 |
| 4/19/2015 0:02:51 | 42.65 | 37.75 | 653 | 1.62 | 0.12 | 35.7 |
| 4/19/2015 0:02:51 | 42.98 | 38.08 | 653 | 1.62 | 0.12 | 35.7 |
| 4/19/2015 0:02:52 | 43.31 | 38.41 | 656 | 1.62 | 0.12 | 35.9 |
| 4/19/2015 0:02:52 | 43.64 | 38.74 | 653 | 1.61 | 0.12 | 35.7 |
| 4/19/2015 0:02:53 | 43.96 | 39.06 | 653 | 1.61 | 0.12 | 35.7 |
| 4/19/2015 0:03:31 | 44.29 | 39.39 | 11 | 1.76 | 1.08 | 0.6 |
| 4/19/2015 0:03:36 | 44.62 | 39.72 | 70 | 1.83 | 1.17 | 3.8 |
| 4/19/2015 0:03:42 | 44.95 | 40.05 | 54 | 1.83 | 1.15 | 2.9 |
| 4/19/2015 0:03:48 | 45.27 | 40.37 | 48 | 1.83 | 1.21 | 2.6 |

## D18 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 23:27:27

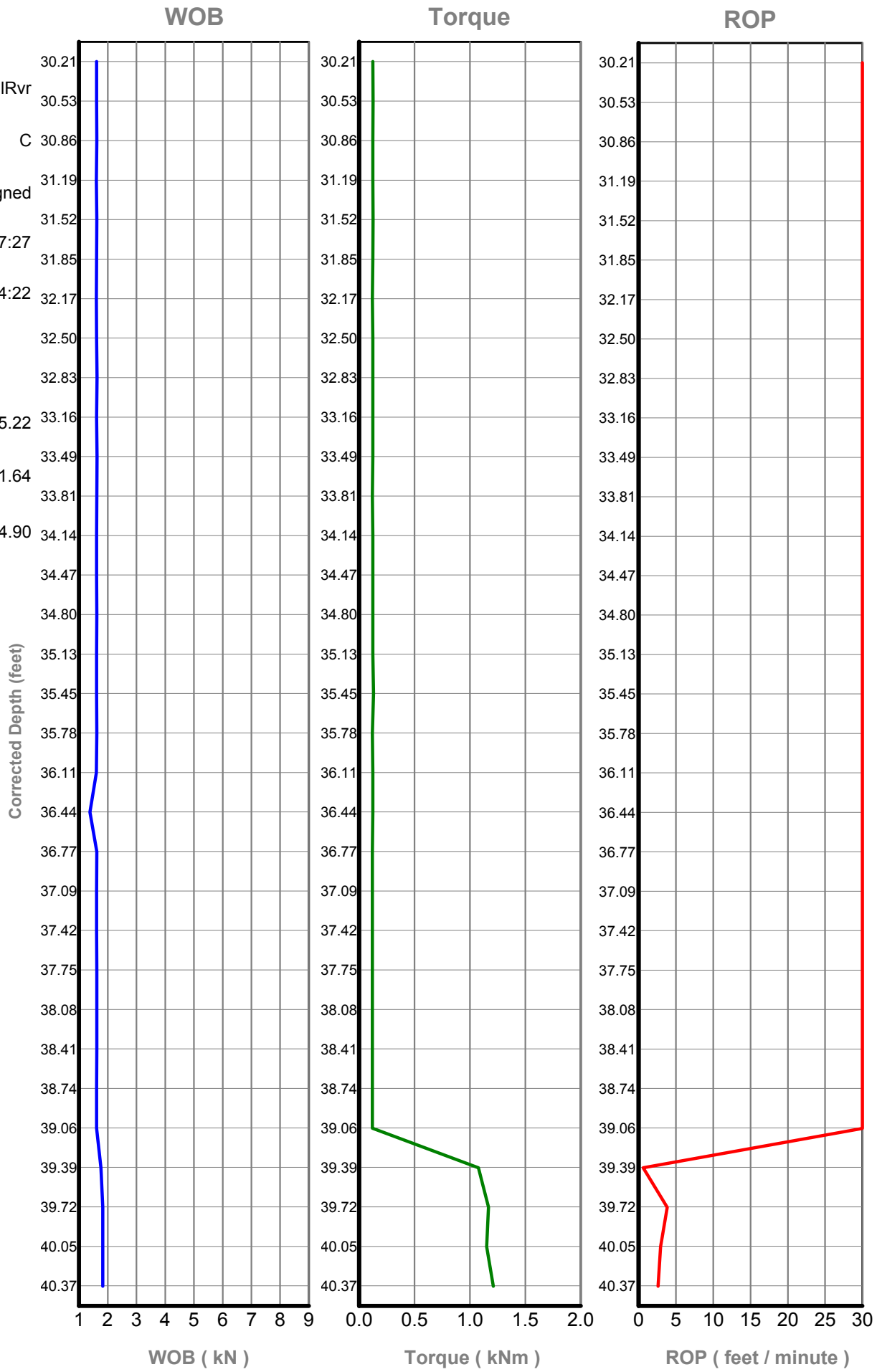
**End Date:**
4/19/2015 0:04:22

**Operator Note:**
'4.9 '5.7 5.54 c Auto Complete'

**Northing:**
369,985.22

**Easting:**
255,371.64

**Tide (feet):**
4.90



## Hole: D19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:39:41 | 34.12 | 30.12 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 15:39:41 | 34.45 | 30.45 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 15:39:41 | 34.78 | 30.78 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 15:39:42 | 35.11 | 31.11 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 15:39:43 | 35.43 | 31.43 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 15:39:43 | 35.76 | 31.76 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 15:39:43 | 36.09 | 32.09 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:39:44 | 36.42 | 32.42 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:39:44 | 36.75 | 32.75 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:39:44 | 37.07 | 33.07 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:39:45 | 37.40 | 33.40 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:39:45 | 37.73 | 33.73 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:39:45 | 38.06 | 34.06 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:39:45 | 38.39 | 34.39 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:39:46 | 38.71 | 34.71 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 15:39:46 | 39.04 | 35.04 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 15:39:46 | 39.37 | 35.37 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 15:39:47 | 39.70 | 35.70 | 1,092 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 15:39:47 | 40.03 | 36.03 | 1,092 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 15:39:47 | 40.35 | 36.35 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:39:48 | 40.68 | 36.68 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:39:48 | 41.01 | 37.01 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:39:48 | 41.34 | 37.34 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:39:49 | 41.67 | 37.67 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:39:49 | 41.99 | 37.99 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:39:49 | 42.32 | 38.32 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:39:50 | 42.65 | 38.65 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:39:50 | 42.98 | 38.98 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:39:50 | 43.31 | 39.31 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 15:39:51 | 43.64 | 39.64 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 15:39:57 | 43.96 | 39.96 | 3 | 0.24 | 0.37 | 0.2 |
| 4/18/2015 15:40:03 | 44.29 | 40.29 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 15:40:08 | 44.62 | 40.62 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 15:40:12 | 44.95 | 40.95 | 81 | 0.24 | 0.37 | 4.5 |
| 4/18/2015 15:40:15 | 45.28 | 41.28 | 105 | 0.24 | 0.37 | 5.7 |
| 4/18/2015 15:40:19 | 45.60 | 41.60 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 15:40:24 | 45.93 | 41.93 | 75 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:40:29 | 46.26 | 42.26 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:40:33 | 46.59 | 42.59 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 15:40:39 | 46.92 | 42.92 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 15:40:47 | 47.24 | 43.24 | 50 | 0.24 | 0.37 | 2.7 |
| 4/18/2015 15:40:54 | 47.57 | 43.57 | 47 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 15:41:01 | 47.90 | 43.90 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 15:41:03 | 48.02 | 44.02 | 61 | 0.24 | 0.37 | 3.3 |

## D19 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:37:34

**End Date:**
4/18/2015 15:42:09

**Operator Note:**
'4 4.2 b Auto Complete'

**Northing:**
370,020.53

**Easting:**
255,459.28

**Tide (feet):**
4.00



## Hole: D2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 2:02:05 | 36.42 | 30.02 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/19/2015 2:02:06 | 36.75 | 30.35 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/19/2015 2:02:05 | 37.07 | 30.67 | 1,109 | 0.24 | 0.37 | 60.6 |
| 4/19/2015 2:02:06 | 37.40 | 31.00 | 1,109 | 0.24 | 0.37 | 60.6 |
| 4/19/2015 2:02:06 | 37.73 | 31.33 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/19/2015 2:02:07 | 38.06 | 31.66 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/19/2015 2:02:07 | 38.39 | 31.99 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/19/2015 2:02:07 | 38.71 | 32.31 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:08 | 39.04 | 32.64 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 2:02:08 | 39.37 | 32.97 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 2:02:08 | 39.70 | 33.30 | 1,144 | 0.24 | 0.37 | 62.5 |
| 4/19/2015 2:02:09 | 40.03 | 33.63 | 1,144 | 0.24 | 0.37 | 62.5 |
| 4/19/2015 2:02:09 | 40.35 | 33.95 | 1,120 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:09 | 40.68 | 34.28 | 1,120 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:10 | 41.01 | 34.61 | 1,120 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:10 | 41.34 | 34.94 | 1,124 | 0.24 | 0.37 | 61.5 |
| 4/19/2015 2:02:10 | 41.67 | 35.27 | 1,124 | 0.24 | 0.37 | 61.5 |
| 4/19/2015 2:02:10 | 41.99 | 35.59 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/19/2015 2:02:11 | 42.32 | 35.92 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/19/2015 2:02:11 | 42.65 | 36.25 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/19/2015 2:02:11 | 42.98 | 36.58 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:02:12 | 43.31 | 36.91 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:02:12 | 43.64 | 37.24 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/19/2015 2:02:12 | 43.96 | 37.56 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:13 | 44.29 | 37.89 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/19/2015 2:02:13 | 44.62 | 38.22 | 1,109 | 0.24 | 0.37 | 60.6 |
| 4/19/2015 2:02:13 | 44.95 | 38.55 | 1,109 | 0.24 | 0.37 | 60.6 |
| 4/19/2015 2:02:14 | 45.28 | 38.88 | 1,109 | 0.24 | 0.37 | 60.6 |
| 4/19/2015 2:02:14 | 45.60 | 39.20 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/19/2015 2:02:14 | 45.93 | 39.53 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/19/2015 2:02:14 | 46.26 | 39.86 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/19/2015 2:02:15 | 46.59 | 40.19 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/19/2015 2:02:15 | 46.92 | 40.52 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/19/2015 2:02:54 | 47.24 | 40.84 | 0 | 0.24 | 0.37 | 0.0 |
| 4/19/2015 2:02:55 | 47.57 | 41.17 | 90 | 0.24 | 0.37 | 4.9 |
| 4/19/2015 2:02:56 | 47.90 | 41.50 | 175 | 0.24 | 0.37 | 9.6 |
| 4/19/2015 2:02:57 | 48.23 | 41.83 | 230 | 0.24 | 0.37 | 12.6 |
| 4/19/2015 2:02:58 | 48.56 | 42.16 | 344 | 0.24 | 0.37 | 18.8 |
| 4/19/2015 2:02:59 | 48.88 | 42.48 | 385 | 0.24 | 0.37 | 21.0 |
| 4/19/2015 2:03:01 | 49.21 | 42.81 | 227 | 0.24 | 0.37 | 12.4 |
| 4/19/2015 2:03:02 | 49.54 | 43.14 | 247 | 0.24 | 0.37 | 13.5 |
| 4/19/2015 2:03:03 | 49.87 | 43.47 | 299 | 0.24 | 0.37 | 16.4 |
| 4/19/2015 2:03:04 | 50.20 | 43.80 | 335 | 0.24 | 0.37 | 18.3 |
| 4/19/2015 2:03:05 | 50.53 | 44.13 | 276 | 0.24 | 0.37 | 15.1 |
| 4/19/2015 2:03:07 | 50.85 | 44.45 | 255 | 0.24 | 0.37 | 14.0 |
| 4/19/2015 2:03:08 | 51.18 | 44.78 | 276 | 0.24 | 0.37 | 15.1 |
| 4/19/2015 2:03:15 | 51.51 | 45.11 | 58 | 0.24 | 0.37 | 3.2 |
| 4/19/2015 2:03:22 | 51.84 | 45.44 | 65 | 0.24 | 0.37 | 3.6 |
| 4/19/2015 2:03:24 | 52.17 | 45.77 | 150 | 0.24 | 0.37 | 8.2 |
| 4/19/2015 2:03:26 | 52.49 | 46.09 | 107 | 0.24 | 0.37 | 5.9 |
| 4/19/2015 2:03:31 | 52.82 | 46.42 | 97 | 0.24 | 0.37 | 5.3 |
| 4/19/2015 2:03:50 | 53.15 | 46.75 | 6 | 0.24 | 0.37 | 0.3 |
| 4/19/2015 2:03:51 | 53.48 | 47.08 | 103 | 0.24 | 0.37 | 5.6 |
| 4/19/2015 2:03:57 | 53.81 | 47.41 | 34 | 0.24 | 0.37 | 1.9 |
| 4/19/2015 2:03:58 | 54.13 | 47.73 | 94 | 0.24 | 0.37 | 5.1 |
| 4/19/2015 2:03:59 | 54.46 | 48.06 | 274 | 0.24 | 0.37 | 15.0 |
| 4/19/2015 2:04:00 | 54.79 | 48.39 | 325 | 0.24 | 0.37 | 17.8 |
| 4/19/2015 2:04:00 | 55.12 | 48.72 | 360 | 0.24 | 0.37 | 19.7 |
| 4/19/2015 2:04:01 | 55.45 | 49.05 | 442 | 0.24 | 0.37 | 24.2 |
| 4/19/2015 2:04:02 | 55.77 | 49.37 | 449 | 0.24 | 0.37 | 24.6 |
| 4/19/2015 2:04:03 | 56.10 | 49.70 | 375 | 0.24 | 0.37 | 20.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 2:04:05 | 56.43 | 50.03 | 285 | 0.24 | 0.37 | 15.6 |
| 4/19/2015 | 2:04:10 | 56.76 | 50.36 | 41 | 0.24 | 0.37 | 2.2 |
| 4/19/2015 | 2:04:11 | 57.09 | 50.69 | 192 | 0.24 | 0.37 | 10.5 |
| 4/19/2015 | 2:04:11 | 57.41 | 51.01 | 269 | 0.24 | 0.37 | 14.7 |
| 4/19/2015 | 2:04:12 | 57.74 | 51.34 | 437 | 0.24 | 0.37 | 23.9 |
| 4/19/2015 | 2:04:13 | 58.07 | 51.67 | 448 | 0.24 | 0.37 | 24.5 |
| 4/19/2015 | 2:04:14 | 58.40 | 52.00 | 465 | 0.24 | 0.37 | 25.4 |
| 4/19/2015 | 2:04:15 | 58.73 | 52.33 | 433 | 0.24 | 0.37 | 23.7 |
| 4/19/2015 | 2:04:16 | 59.06 | 52.66 | 375 | 0.24 | 0.37 | 20.5 |
| 4/19/2015 | 2:04:17 | 59.38 | 52.98 | 326 | 0.24 | 0.37 | 17.8 |
| 4/19/2015 | 2:04:19 | 59.71 | 53.31 | 265 | 0.24 | 0.37 | 14.5 |
| 4/19/2015 | 2:04:20 | 60.04 | 53.64 | 265 | 0.24 | 0.37 | 14.5 |
| 4/19/2015 | 2:04:21 | 60.37 | 53.97 | 294 | 0.24 | 0.37 | 16.1 |
| 4/19/2015 | 2:04:22 | 60.70 | 54.30 | 311 | 0.24 | 0.37 | 17.0 |
| 4/19/2015 | 2:04:24 | 61.02 | 54.62 | 299 | 0.24 | 0.37 | 16.4 |
| 4/19/2015 | 2:04:25 | 61.35 | 54.95 | 242 | 0.24 | 0.37 | 13.3 |
| 4/19/2015 | 2:04:27 | 61.68 | 55.28 | 183 | 0.24 | 0.37 | 10.0 |
| 4/19/2015 | 2:04:28 | 61.75 | 55.35 | 142 | 0.24 | 0.37 | 7.8 |

## D2 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 1:57:57

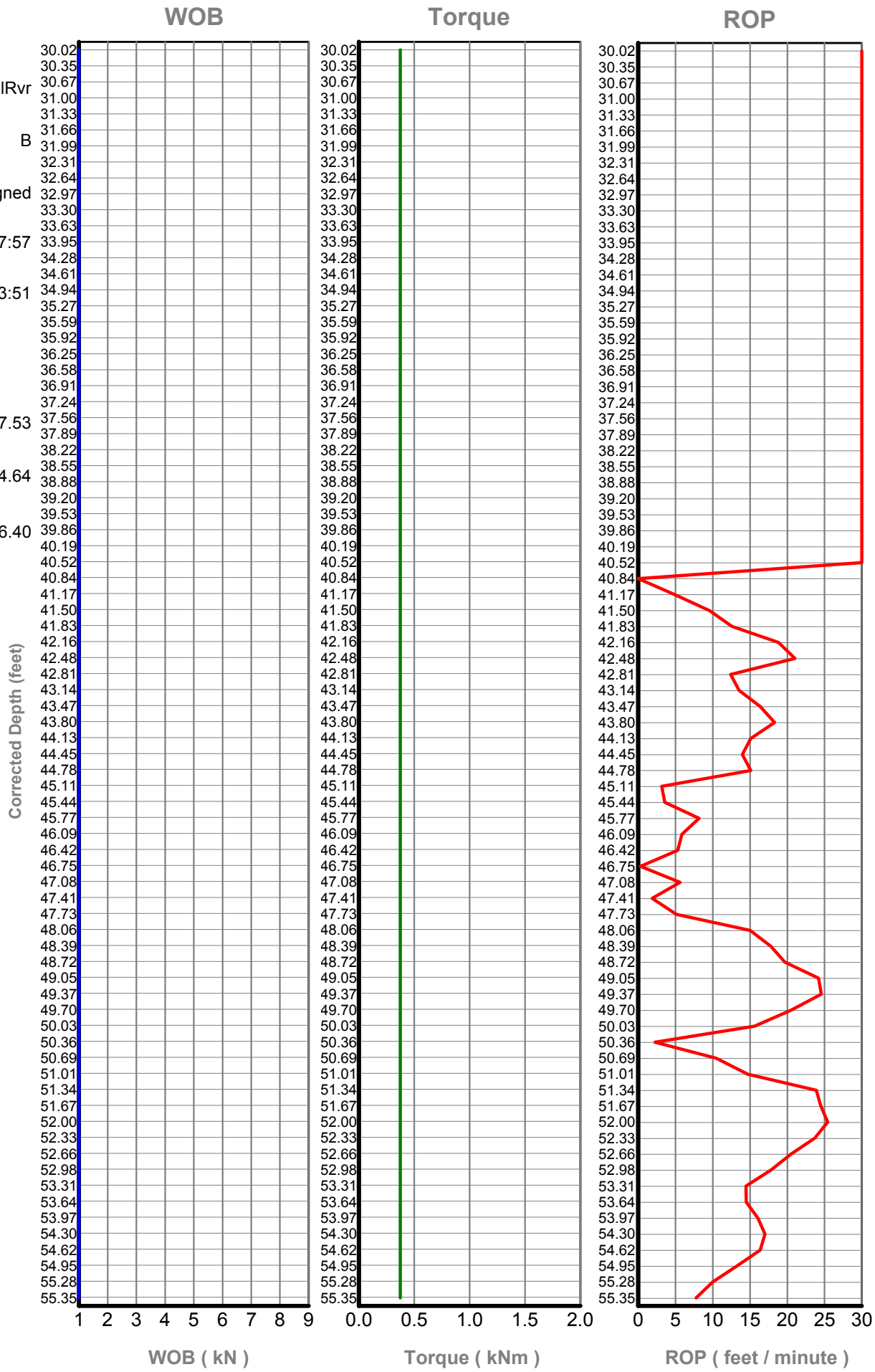
**End Date:**
4/19/2015 2:13:51

**Operator Note:**
'6.4 6.55 b Auto Complete'

**Northing:**
369,917.53

**Easting:**
255,074.64

**Tide (feet):**
6.40



## Hole: D20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:44:43 | 34.12 | 30.22 | 1,092 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 15:44:43 | 34.45 | 30.55 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:44 | 34.78 | 30.88 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:44 | 35.11 | 31.21 | 1,080 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:44 | 35.43 | 31.53 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:44:45 | 35.76 | 31.86 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:44:45 | 36.09 | 32.19 | 1,092 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 15:44:46 | 36.42 | 32.52 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:44:46 | 36.75 | 32.85 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:44:46 | 37.07 | 33.17 | 1,086 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 15:44:47 | 37.40 | 33.50 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:47 | 37.73 | 33.83 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:47 | 38.06 | 34.16 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:48 | 38.39 | 34.49 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:48 | 38.71 | 34.81 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:44:48 | 39.04 | 35.14 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:44:49 | 39.37 | 35.47 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:44:49 | 39.70 | 35.80 | 1,077 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:44:49 | 40.03 | 36.13 | 1,080 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:50 | 40.35 | 36.45 | 1,080 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:44:50 | 40.68 | 36.78 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:44:50 | 41.01 | 37.11 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:44:51 | 41.34 | 37.44 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:44:51 | 41.67 | 37.77 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:44:51 | 41.99 | 38.09 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:44:52 | 42.32 | 38.42 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 15:44:52 | 42.65 | 38.75 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 15:44:52 | 42.98 | 39.08 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 15:44:52 | 43.31 | 39.41 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 15:44:58 | 43.64 | 39.74 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 15:45:05 | 43.96 | 40.06 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 15:45:06 | 44.29 | 40.39 | 258 | 0.24 | 0.37 | 14.1 |
| 4/18/2015 15:45:15 | 44.62 | 40.72 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 15:45:18 | 44.95 | 41.05 | 136 | 0.24 | 0.37 | 7.4 |
| 4/18/2015 15:45:22 | 45.28 | 41.38 | 100 | 0.24 | 0.37 | 5.5 |
| 4/18/2015 15:45:25 | 45.60 | 41.70 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 15:45:29 | 45.93 | 42.03 | 93 | 0.24 | 0.37 | 5.1 |
| 4/18/2015 15:45:33 | 46.26 | 42.36 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 15:45:37 | 46.59 | 42.69 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 15:45:43 | 46.92 | 43.02 | 57 | 0.24 | 0.37 | 3.1 |
| 4/18/2015 15:45:49 | 47.24 | 43.34 | 57 | 0.24 | 0.37 | 3.1 |
| 4/18/2015 15:45:54 | 47.57 | 43.67 | 79 | 0.24 | 0.37 | 4.3 |
| 4/18/2015 15:45:58 | 47.90 | 44.00 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 15:46:03 | 48.23 | 44.33 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 15:46:10 | 48.56 | 44.66 | 49 | 0.24 | 0.37 | 2.7 |
| 4/18/2015 15:46:16 | 48.88 | 44.98 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 15:46:23 | 49.21 | 45.31 | 49 | 0.24 | 0.37 | 2.7 |
| 4/18/2015 15:46:25 | 49.31 | 45.41 | 46 | 0.24 | 0.37 | 2.5 |

## D20 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:42:59

**End Date:**
4/18/2015 15:48:07

**Operator Note:**
'3.9 4.1 b Auto Complete'

**Northing:**
370,043.49

**Easting:**
255,513.62

**Tide (feet):**
3.90



## Hole: D21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:41:49 | 34.12 | 30.22 | 717 | 1.39 | 0.26 | 39.2 |
| 4/18/2015 15:41:50 | 34.45 | 30.55 | 714 | 1.53 | 0.26 | 39.0 |
| 4/18/2015 15:41:50 | 34.78 | 30.88 | 714 | 1.53 | 0.25 | 39.0 |
| 4/18/2015 15:41:51 | 35.11 | 31.21 | 711 | 1.53 | 0.26 | 38.9 |
| 4/18/2015 15:41:51 | 35.43 | 31.53 | 711 | 1.54 | 0.26 | 38.9 |
| 4/18/2015 15:41:52 | 35.76 | 31.86 | 711 | 1.55 | 0.26 | 38.9 |
| 4/18/2015 15:41:52 | 36.09 | 32.19 | 701 | 1.53 | 0.26 | 38.3 |
| 4/18/2015 15:41:53 | 36.42 | 32.52 | 708 | 1.53 | 0.26 | 38.7 |
| 4/18/2015 15:41:53 | 36.75 | 32.85 | 712 | 1.53 | 0.26 | 39.0 |
| 4/18/2015 15:41:54 | 37.07 | 33.17 | 712 | 1.54 | 0.26 | 39.0 |
| 4/18/2015 15:41:54 | 37.40 | 33.50 | 712 | 1.55 | 0.26 | 39.0 |
| 4/18/2015 15:41:55 | 37.73 | 33.83 | 723 | 1.54 | 0.25 | 39.5 |
| 4/18/2015 15:41:55 | 38.06 | 34.16 | 714 | 1.53 | 0.26 | 39.0 |
| 4/18/2015 15:41:56 | 38.39 | 34.49 | 711 | 1.54 | 0.26 | 38.9 |
| 4/18/2015 15:41:56 | 38.71 | 34.81 | 711 | 1.53 | 0.26 | 38.9 |
| 4/18/2015 15:41:57 | 39.04 | 35.14 | 707 | 1.49 | 0.25 | 38.7 |
| 4/18/2015 15:41:57 | 39.37 | 35.47 | 711 | 1.53 | 0.25 | 38.9 |
| 4/18/2015 15:41:58 | 39.70 | 35.80 | 705 | 1.55 | 0.26 | 38.6 |
| 4/18/2015 15:41:58 | 40.03 | 36.13 | 705 | 1.55 | 0.26 | 38.6 |
| 4/18/2015 15:41:58 | 40.35 | 36.45 | 708 | 1.53 | 0.26 | 38.7 |
| 4/18/2015 15:41:59 | 40.68 | 36.78 | 708 | 1.53 | 0.25 | 38.7 |
| 4/18/2015 15:42:00 | 41.01 | 37.11 | 709 | 1.54 | 0.25 | 38.8 |
| 4/18/2015 15:42:00 | 41.34 | 37.44 | 705 | 1.55 | 0.26 | 38.6 |
| 4/18/2015 15:42:01 | 41.67 | 37.77 | 710 | 1.53 | 0.26 | 38.8 |
| 4/18/2015 15:42:01 | 41.99 | 38.09 | 701 | 1.53 | 0.26 | 38.4 |
| 4/18/2015 15:42:02 | 42.32 | 38.42 | 706 | 1.53 | 0.26 | 38.6 |
| 4/18/2015 15:42:02 | 42.65 | 38.75 | 699 | 1.54 | 0.26 | 38.2 |
| 4/18/2015 15:42:03 | 42.98 | 39.08 | 700 | 1.54 | 0.26 | 38.3 |
| 4/18/2015 15:42:03 | 43.31 | 39.41 | 698 | 1.58 | 0.26 | 38.2 |
| 4/18/2015 15:42:31 | 43.64 | 39.74 | 40 | 1.70 | 1.05 | 2.2 |
| 4/18/2015 15:42:32 | 43.96 | 40.06 | 179 | 1.79 | 1.09 | 9.8 |
| 4/18/2015 15:42:35 | 44.29 | 40.39 | 117 | 1.78 | 1.13 | 6.4 |
| 4/18/2015 15:42:38 | 44.62 | 40.72 | 130 | 1.77 | 1.03 | 7.1 |
| 4/18/2015 15:42:41 | 44.95 | 41.05 | 130 | 1.76 | 1.13 | 7.1 |
| 4/18/2015 15:42:43 | 45.28 | 41.38 | 155 | 1.76 | 1.17 | 8.5 |
| 4/18/2015 15:42:45 | 45.60 | 41.70 | 200 | 1.74 | 1.06 | 10.9 |
| 4/18/2015 15:42:47 | 45.93 | 42.03 | 199 | 1.76 | 1.11 | 10.9 |
| 4/18/2015 15:42:52 | 46.26 | 42.36 | 35 | 1.81 | 1.12 | 1.9 |
| 4/18/2015 15:43:03 | 46.59 | 42.69 | 31 | 1.78 | 1.11 | 1.7 |
| 4/18/2015 15:43:10 | 46.92 | 43.02 | 35 | 1.80 | 1.18 | 1.9 |
| 4/18/2015 15:43:20 | 47.24 | 43.34 | 44 | 1.81 | 1.19 | 2.4 |
| 4/18/2015 15:43:28 | 47.57 | 43.67 | 49 | 1.78 | 1.09 | 2.7 |
| 4/18/2015 15:43:29 | 47.65 | 43.75 | 43 | 1.74 | 1.25 | 2.4 |

## D21 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:39:58

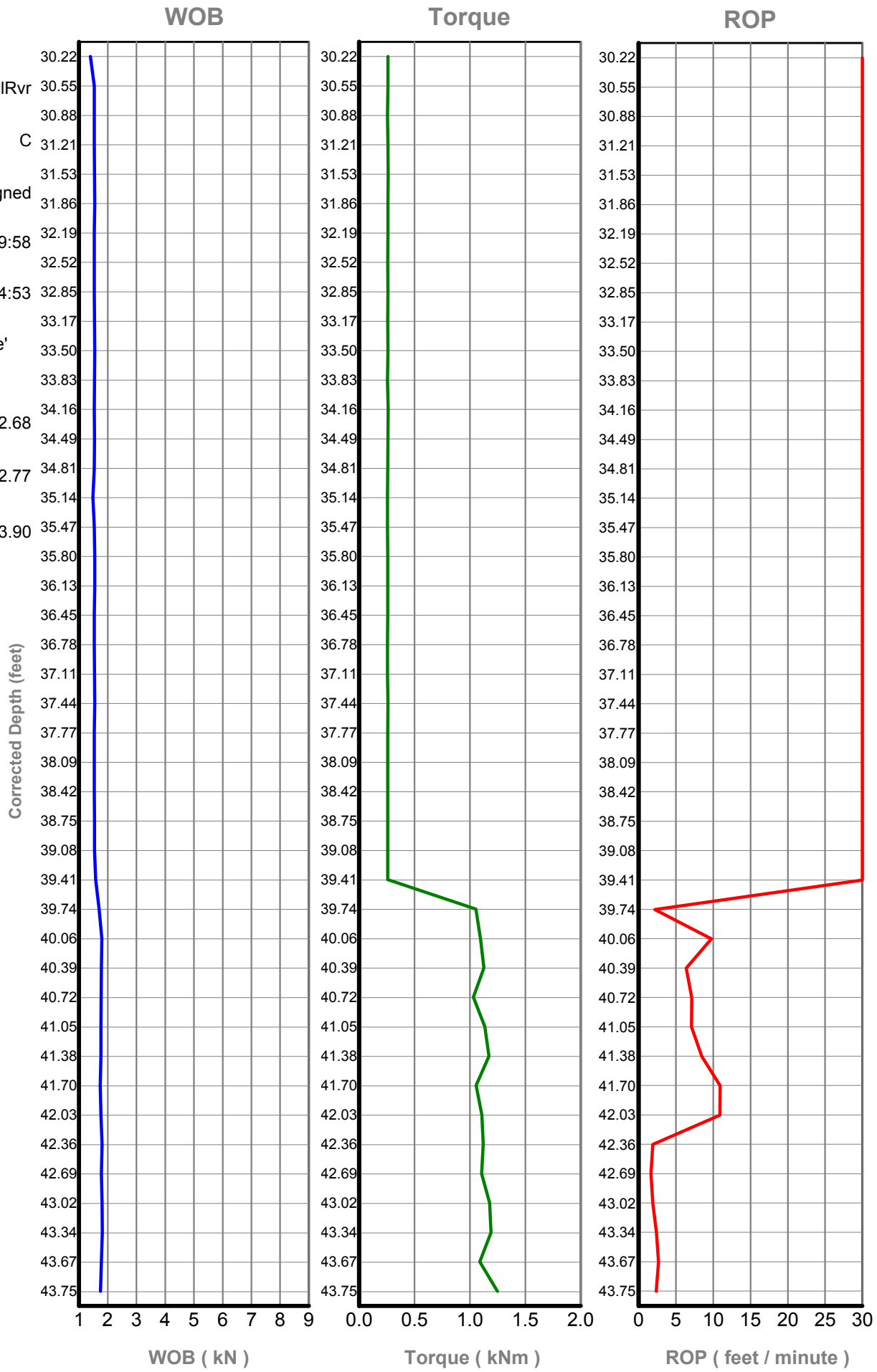
**End Date:**
4/18/2015 15:44:53

**Operator Note:**
'3.9 4.2 c Auto Complete'

**Northing:**
370,072.68

**Easting:**
255,582.77

**Tide (feet):**
3.90



## Hole: D22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:04:17 | 30.18 | 30.18 | 949 | 0.34 | 0.34 | 51.9 |
| 4/18/2015 8:04:18 | 30.51 | 30.51 | 946 | 0.34 | 0.34 | 51.8 |
| 4/18/2015 8:04:18 | 30.84 | 30.84 | 946 | 0.34 | 0.34 | 51.8 |
| 4/18/2015 8:04:18 | 31.17 | 31.17 | 946 | 0.34 | 0.34 | 51.8 |
| 4/18/2015 8:04:19 | 31.50 | 31.50 | 961 | 0.34 | 0.34 | 52.6 |
| 4/18/2015 8:04:19 | 31.82 | 31.82 | 961 | 0.29 | 0.34 | 52.6 |
| 4/18/2015 8:04:20 | 32.15 | 32.15 | 961 | 0.29 | 0.34 | 52.6 |
| 4/18/2015 8:04:20 | 32.48 | 32.48 | 976 | 0.35 | 0.34 | 53.4 |
| 4/18/2015 8:04:20 | 32.81 | 32.81 | 956 | 0.34 | 0.34 | 52.3 |
| 4/18/2015 8:04:21 | 33.14 | 33.14 | 956 | 0.34 | 0.34 | 52.3 |
| 4/18/2015 8:04:21 | 33.46 | 33.46 | 956 | 0.34 | 0.34 | 52.3 |
| 4/18/2015 8:04:21 | 33.79 | 33.79 | 970 | 0.34 | 0.34 | 53.0 |
| 4/18/2015 8:04:22 | 34.12 | 34.12 | 973 | 0.32 | 0.35 | 53.2 |
| 4/18/2015 8:04:22 | 34.45 | 34.45 | 973 | 0.32 | 0.35 | 53.2 |
| 4/18/2015 8:04:22 | 34.78 | 34.78 | 977 | 0.35 | 0.34 | 53.4 |
| 4/18/2015 8:04:23 | 35.11 | 35.11 | 957 | 0.35 | 0.34 | 52.3 |
| 4/18/2015 8:04:23 | 35.43 | 35.43 | 957 | 0.35 | 0.34 | 52.3 |
| 4/18/2015 8:04:23 | 35.76 | 35.76 | 982 | 0.34 | 0.34 | 53.7 |
| 4/18/2015 8:04:24 | 36.09 | 36.09 | 966 | 0.35 | 0.34 | 52.8 |
| 4/18/2015 8:04:24 | 36.42 | 36.42 | 966 | 0.35 | 0.34 | 52.8 |
| 4/18/2015 8:04:24 | 36.75 | 36.75 | 963 | 0.34 | 0.34 | 52.6 |
| 4/18/2015 8:04:25 | 37.07 | 37.07 | 938 | 0.35 | 0.34 | 51.3 |
| 4/18/2015 8:04:25 | 37.40 | 37.40 | 938 | 0.35 | 0.35 | 51.3 |
| 4/18/2015 8:04:26 | 37.73 | 37.73 | 938 | 0.35 | 0.35 | 51.3 |
| 4/18/2015 8:04:26 | 38.06 | 38.06 | 951 | 0.34 | 0.34 | 52.0 |
| 4/18/2015 8:04:26 | 38.39 | 38.39 | 951 | 0.35 | 0.34 | 52.0 |
| 4/18/2015 8:04:27 | 38.71 | 38.71 | 951 | 0.35 | 0.34 | 52.0 |
| 4/18/2015 8:04:27 | 39.04 | 39.04 | 953 | 0.35 | 0.34 | 52.1 |
| 4/18/2015 8:04:28 | 39.37 | 39.37 | 960 | 0.34 | 0.34 | 52.5 |
| 4/18/2015 8:04:28 | 39.70 | 39.70 | 977 | 0.31 | 0.39 | 53.4 |
| 4/18/2015 8:04:40 | 40.03 | 40.03 | 29 | 5.46 | 0.41 | 1.6 |
| 4/18/2015 8:04:41 | 40.35 | 40.35 | 144 | 3.50 | 0.42 | 7.9 |
| 4/18/2015 8:04:46 | 40.68 | 40.68 | 99 | 3.68 | 0.40 | 5.4 |
| 4/18/2015 8:04:53 | 41.01 | 41.01 | 0 | 2.80 | 0.39 | 0.0 |
| 4/18/2015 8:04:59 | 41.34 | 41.34 | 75 | 3.08 | 0.41 | 4.1 |
| 4/18/2015 8:05:04 | 41.67 | 41.67 | 60 | 3.17 | 0.41 | 3.3 |
| 4/18/2015 8:05:12 | 41.99 | 41.99 | 43 | 3.76 | 0.43 | 2.3 |
| 4/18/2015 8:05:18 | 42.32 | 42.32 | 43 | 2.98 | 0.41 | 2.4 |
| 4/18/2015 8:05:25 | 42.65 | 42.65 | 59 | 3.32 | 0.42 | 3.2 |
| 4/18/2015 8:05:32 | 42.98 | 42.98 | 55 | 3.55 | 0.41 | 3.0 |

## D22 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:00:56

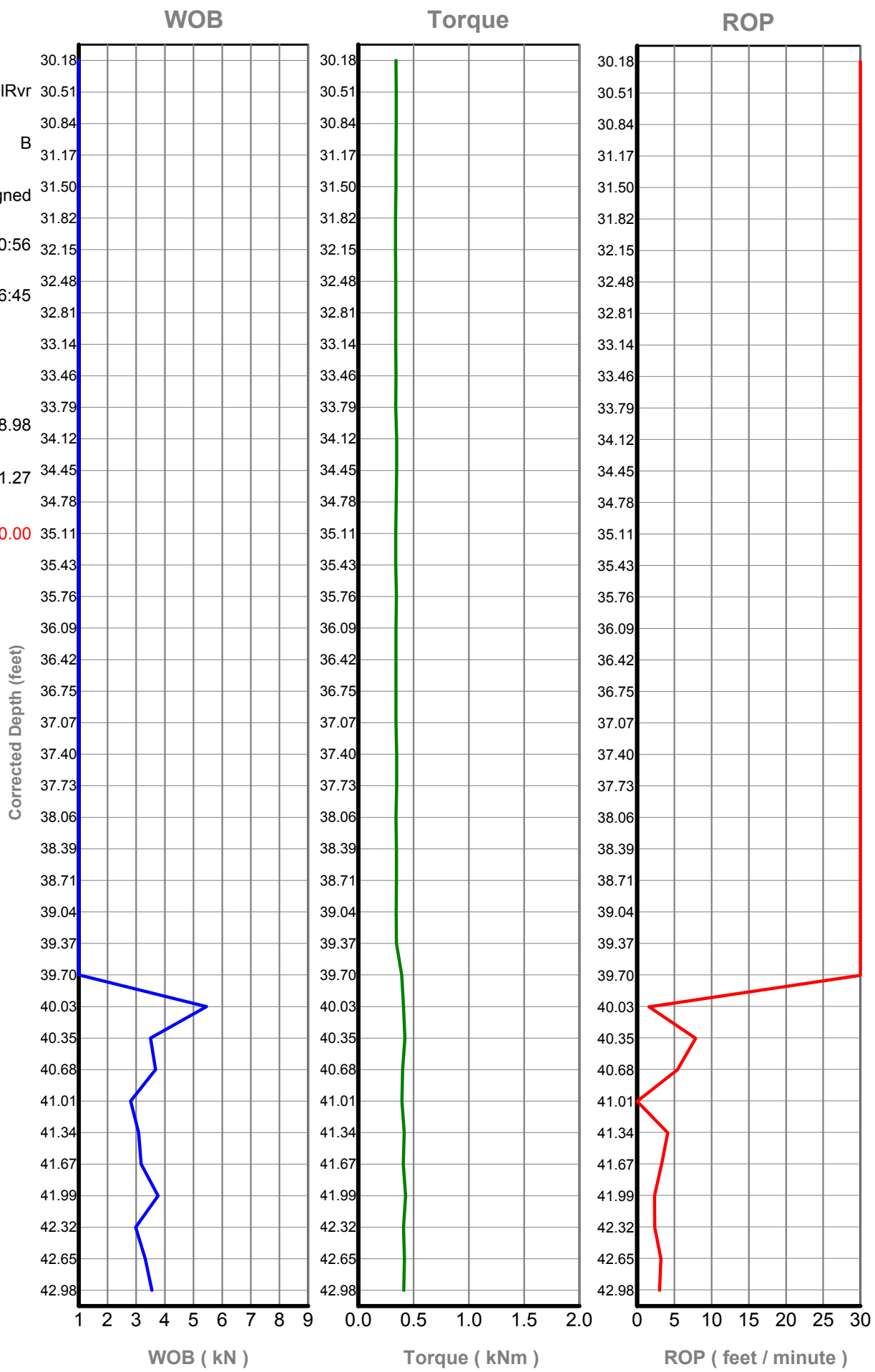
**End Date:**
4/18/2015 8:06:45

**Operator Note:**
'0 0.6 b Rock 42"

**Northing:**
370,108.98

**Easting:**
255,651.27

**Tide (feet):**
0.00



## Hole: D23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 7:56:40 | 30.18 | 30.18 | 888 | 0.36 | 0.35 | 48.6 |
| 4/18/2015 7:56:40 | 30.51 | 30.51 | 896 | 0.37 | 0.35 | 49.0 |
| 4/18/2015 7:56:41 | 30.84 | 30.84 | 896 | 0.37 | 0.35 | 49.0 |
| 4/18/2015 7:56:41 | 31.17 | 31.17 | 896 | 0.37 | 0.35 | 49.0 |
| 4/18/2015 7:56:41 | 31.50 | 31.50 | 893 | 0.36 | 0.35 | 48.8 |
| 4/18/2015 7:56:42 | 31.82 | 31.82 | 890 | 0.37 | 0.35 | 48.7 |
| 4/18/2015 7:56:42 | 32.15 | 32.15 | 893 | 0.37 | 0.35 | 48.8 |
| 4/18/2015 7:56:43 | 32.48 | 32.48 | 893 | 0.37 | 0.35 | 48.8 |
| 4/18/2015 7:56:43 | 32.81 | 32.81 | 893 | 0.36 | 0.35 | 48.8 |
| 4/18/2015 7:56:43 | 33.14 | 33.14 | 890 | 0.36 | 0.35 | 48.7 |
| 4/18/2015 7:56:44 | 33.46 | 33.46 | 885 | 0.36 | 0.35 | 48.4 |
| 4/18/2015 7:56:44 | 33.79 | 33.79 | 887 | 0.36 | 0.35 | 48.5 |
| 4/18/2015 7:56:45 | 34.12 | 34.12 | 887 | 0.36 | 0.35 | 48.5 |
| 4/18/2015 7:56:45 | 34.45 | 34.45 | 882 | 0.37 | 0.35 | 48.2 |
| 4/18/2015 7:56:45 | 34.78 | 34.78 | 885 | 0.36 | 0.35 | 48.4 |
| 4/18/2015 7:56:46 | 35.11 | 35.11 | 885 | 0.37 | 0.35 | 48.4 |
| 4/18/2015 7:56:46 | 35.43 | 35.43 | 885 | 0.37 | 0.35 | 48.4 |
| 4/18/2015 7:56:46 | 35.76 | 35.76 | 893 | 0.37 | 0.35 | 48.8 |
| 4/18/2015 7:56:47 | 36.09 | 36.09 | 885 | 0.37 | 0.35 | 48.4 |
| 4/18/2015 7:56:47 | 36.42 | 36.42 | 893 | 0.37 | 0.34 | 48.8 |
| 4/18/2015 7:56:48 | 36.75 | 36.75 | 888 | 0.37 | 0.35 | 48.5 |
| 4/18/2015 7:56:48 | 37.07 | 37.07 | 888 | 0.37 | 0.35 | 48.5 |
| 4/18/2015 7:56:48 | 37.40 | 37.40 | 893 | 0.36 | 0.35 | 48.8 |
| 4/18/2015 7:56:49 | 37.73 | 37.73 | 896 | 0.37 | 0.35 | 49.0 |
| 4/18/2015 7:56:50 | 38.06 | 38.06 | 902 | 0.36 | 0.35 | 49.3 |
| 4/18/2015 7:56:50 | 38.39 | 38.39 | 902 | 0.36 | 0.35 | 49.3 |
| 4/18/2015 7:56:50 | 38.71 | 38.71 | 894 | 0.36 | 0.36 | 48.9 |
| 4/18/2015 7:57:03 | 39.04 | 39.04 | 54 | 3.37 | 0.41 | 2.9 |
| 4/18/2015 7:57:15 | 39.37 | 39.37 | 23 | 4.00 | 0.39 | 1.3 |
| 4/18/2015 7:57:17 | 39.70 | 39.70 | 162 | 4.02 | 0.42 | 8.8 |
| 4/18/2015 7:57:27 | 40.03 | 40.03 | 86 | 3.74 | 0.42 | 4.7 |
| 4/18/2015 7:57:30 | 40.35 | 40.35 | 127 | 3.83 | 0.41 | 7.0 |
| 4/18/2015 7:57:33 | 40.68 | 40.68 | 139 | 3.70 | 0.42 | 7.6 |
| 4/18/2015 7:57:36 | 41.01 | 41.01 | 113 | 4.06 | 0.41 | 6.2 |
| 4/18/2015 7:57:40 | 41.34 | 41.34 | 96 | 3.74 | 0.42 | 5.2 |
| 4/18/2015 7:57:44 | 41.67 | 41.67 | 110 | 3.65 | 0.42 | 6.0 |
| 4/18/2015 7:57:47 | 41.99 | 41.99 | 118 | 3.54 | 0.41 | 6.5 |
| 4/18/2015 7:57:51 | 42.32 | 42.32 | 84 | 3.86 | 0.42 | 4.6 |
| 4/18/2015 7:57:56 | 42.65 | 42.65 | 76 | 3.41 | 0.42 | 4.1 |
| 4/18/2015 7:58:05 | 42.98 | 42.98 | 35 | 3.26 | 0.41 | 1.9 |
| 4/18/2015 7:58:13 | 43.31 | 43.31 | 38 | 3.92 | 0.41 | 2.1 |
| 4/18/2015 7:58:22 | 43.64 | 43.64 | 43 | 3.46 | 0.42 | 2.4 |
| 4/18/2015 7:58:32 | 43.96 | 43.96 | 37 | 3.96 | 0.42 | 2.0 |
| 4/18/2015 7:58:34 | 44.03 | 44.03 | 35 | 3.27 | 0.41 | 1.9 |

## D23 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 7:53:51

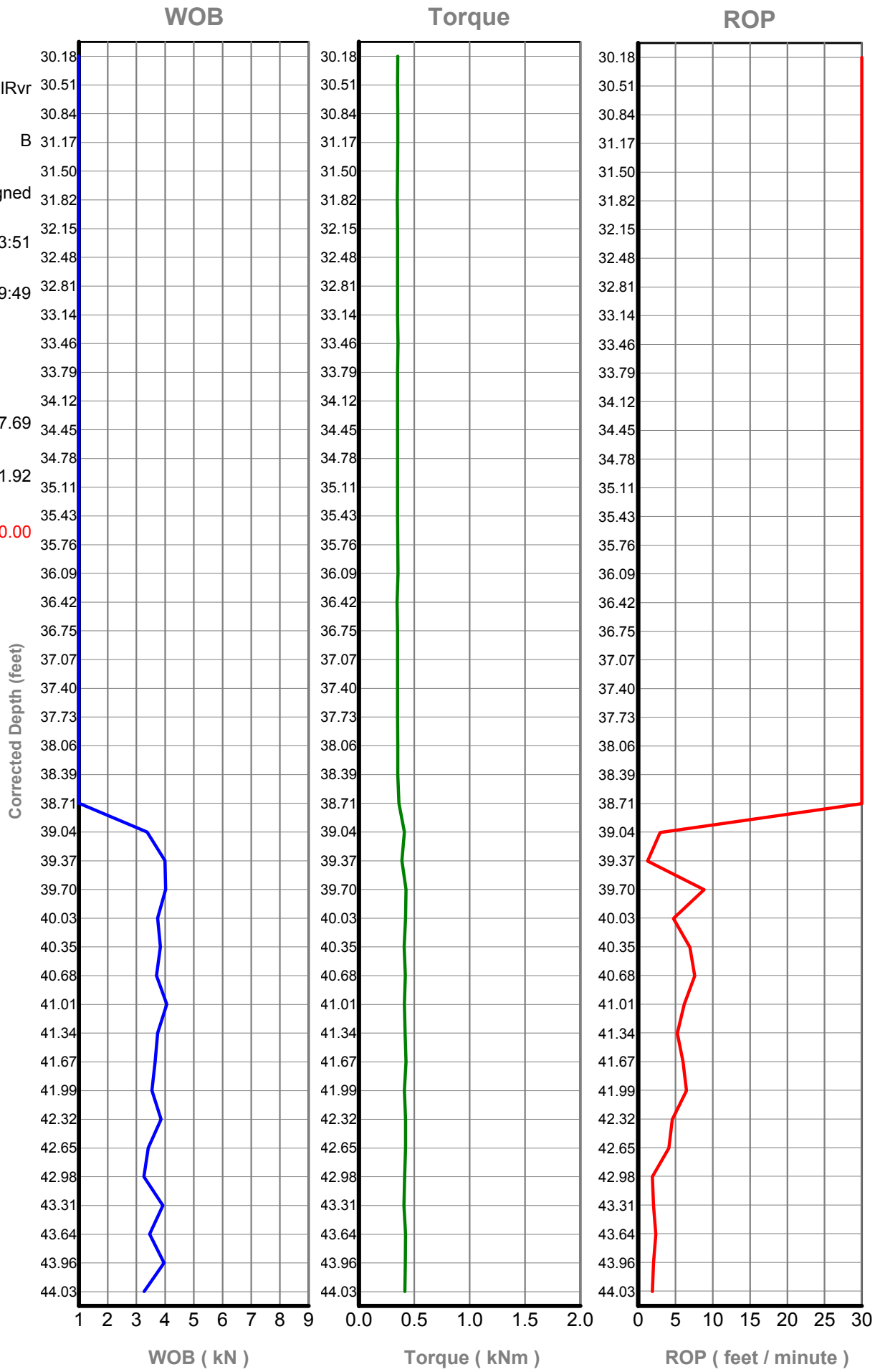
**End Date:**
4/18/2015 7:59:49

**Operator Note:**
'0 0.6 b Hit rock @ 43"

**Northing:**
370,137.69

**Easting:**
255,711.92

**Tide (feet):**
0.00



## Hole: D24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 7:58:25 | 30.18 | 30.18 | 577 | 2.15 | 0.30 | 31.6 |
| 4/18/2015 7:58:26 | 30.51 | 30.51 | 584 | 2.14 | 0.29 | 32.0 |
| 4/18/2015 7:58:26 | 30.84 | 30.84 | 581 | 2.14 | 0.30 | 31.8 |
| 4/18/2015 7:58:27 | 31.17 | 31.17 | 585 | 2.15 | 0.30 | 32.0 |
| 4/18/2015 7:58:27 | 31.50 | 31.50 | 588 | 2.15 | 0.30 | 32.1 |
| 4/18/2015 7:58:28 | 31.82 | 31.82 | 581 | 2.14 | 0.30 | 31.8 |
| 4/18/2015 7:58:29 | 32.15 | 32.15 | 581 | 2.14 | 0.30 | 31.8 |
| 4/18/2015 7:58:30 | 32.48 | 32.48 | 584 | 2.15 | 0.29 | 31.9 |
| 4/18/2015 7:58:30 | 32.81 | 32.81 | 581 | 2.15 | 0.30 | 31.8 |
| 4/18/2015 7:58:31 | 33.14 | 33.14 | 581 | 2.14 | 0.30 | 31.8 |
| 4/18/2015 7:58:31 | 33.46 | 33.46 | 578 | 2.15 | 0.29 | 31.6 |
| 4/18/2015 7:58:32 | 33.79 | 33.79 | 588 | 2.15 | 0.29 | 32.1 |
| 4/18/2015 7:58:33 | 34.12 | 34.12 | 582 | 2.14 | 0.30 | 31.8 |
| 4/18/2015 7:58:33 | 34.45 | 34.45 | 582 | 2.14 | 0.29 | 31.8 |
| 4/18/2015 7:58:34 | 34.78 | 34.78 | 584 | 2.15 | 0.29 | 32.0 |
| 4/18/2015 7:58:34 | 35.11 | 35.11 | 581 | 2.15 | 0.29 | 31.8 |
| 4/18/2015 7:58:35 | 35.43 | 35.43 | 587 | 2.14 | 0.30 | 32.1 |
| 4/18/2015 7:58:35 | 35.76 | 35.76 | 580 | 2.15 | 0.29 | 31.7 |
| 4/18/2015 7:58:36 | 36.09 | 36.09 | 578 | 2.15 | 0.29 | 31.6 |
| 4/18/2015 7:58:37 | 36.42 | 36.42 | 578 | 2.15 | 0.29 | 31.6 |
| 4/18/2015 7:58:37 | 36.75 | 36.75 | 575 | 2.14 | 0.29 | 31.4 |
| 4/18/2015 7:58:38 | 37.07 | 37.07 | 578 | 2.14 | 0.29 | 31.6 |
| 4/18/2015 7:58:39 | 37.40 | 37.40 | 581 | 2.15 | 0.29 | 31.8 |
| 4/18/2015 7:58:40 | 37.73 | 37.73 | 575 | 2.14 | 0.28 | 31.4 |
| 4/18/2015 7:58:40 | 38.06 | 38.06 | 582 | 2.15 | 0.29 | 31.8 |
| 4/18/2015 7:58:41 | 38.39 | 38.39 | 578 | 2.16 | 0.29 | 31.6 |
| 4/18/2015 7:58:41 | 38.71 | 38.71 | 578 | 2.14 | 0.28 | 31.6 |
| 4/18/2015 7:58:42 | 39.04 | 39.04 | 552 | 2.31 | 0.29 | 30.2 |
| 4/18/2015 7:59:21 | 39.37 | 39.37 | 55 | 2.31 | 1.29 | 3.0 |
| 4/18/2015 7:59:29 | 39.70 | 39.70 | 39 | 2.37 | 1.27 | 2.1 |
| 4/18/2015 7:59:37 | 40.03 | 40.03 | 41 | 2.33 | 1.23 | 2.3 |
| 4/18/2015 7:59:45 | 40.35 | 40.35 | 43 | 2.37 | 1.50 | 2.4 |
| 4/18/2015 7:59:57 | 40.68 | 40.68 | 38 | 2.38 | 1.16 | 2.1 |
| 4/18/2015 8:00:05 | 41.01 | 41.01 | 47 | 2.37 | 1.25 | 2.6 |

## D24 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 7:56:08

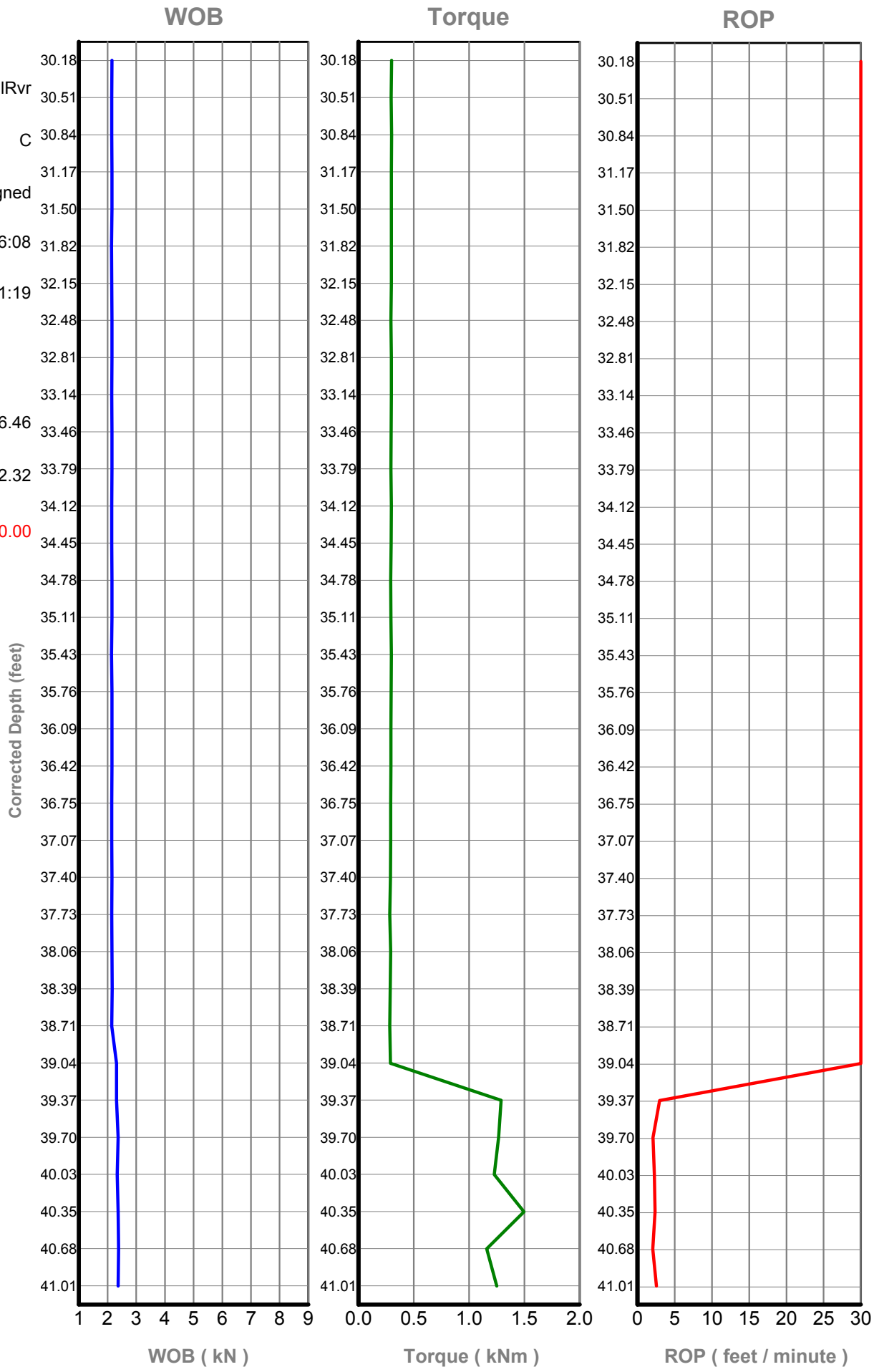
**End Date:**
4/18/2015 8:01:19

**Operator Note:**
'0 0.6 c Auto Complete'

**Northing:**
370,166.46

**Easting:**
255,772.32

**Tide (feet):**
0.00



## Hole: D25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 3:31:41 | 35.11 | 30.01 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/19/2015 3:31:42 | 35.43 | 30.33 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/19/2015 3:31:42 | 35.76 | 30.66 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:43 | 36.09 | 30.99 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/19/2015 3:31:43 | 36.42 | 31.32 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/19/2015 3:31:43 | 36.75 | 31.65 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:44 | 37.07 | 31.97 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 3:31:44 | 37.40 | 32.30 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 3:31:44 | 37.73 | 32.63 | 992 | 0.24 | 0.37 | 54.2 |
| 4/19/2015 3:31:45 | 38.06 | 32.96 | 997 | 0.24 | 0.37 | 54.5 |
| 4/19/2015 3:31:45 | 38.39 | 33.29 | 997 | 0.24 | 0.37 | 54.5 |
| 4/19/2015 3:31:45 | 38.71 | 33.61 | 998 | 0.24 | 0.37 | 54.6 |
| 4/19/2015 3:31:46 | 39.04 | 33.94 | 994 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:46 | 39.37 | 34.27 | 995 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:47 | 39.70 | 34.60 | 995 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:47 | 40.03 | 34.93 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:47 | 40.35 | 35.25 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:48 | 40.68 | 35.58 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:48 | 41.01 | 35.91 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 3:31:48 | 41.34 | 36.24 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/19/2015 3:31:49 | 41.67 | 36.57 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/19/2015 3:31:49 | 41.99 | 36.89 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 3:31:49 | 42.32 | 37.22 | 997 | 0.24 | 0.37 | 54.5 |
| 4/19/2015 3:31:50 | 42.65 | 37.55 | 997 | 0.24 | 0.37 | 54.5 |
| 4/19/2015 3:31:50 | 42.98 | 37.88 | 994 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:50 | 43.31 | 38.21 | 988 | 0.24 | 0.37 | 54.0 |
| 4/19/2015 3:31:51 | 43.64 | 38.54 | 986 | 0.24 | 0.37 | 53.9 |
| 4/19/2015 3:31:51 | 43.96 | 38.86 | 986 | 0.24 | 0.37 | 53.9 |
| 4/19/2015 3:31:51 | 44.29 | 39.19 | 980 | 0.24 | 0.37 | 53.6 |
| 4/19/2015 3:31:52 | 44.62 | 39.52 | 995 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:52 | 44.95 | 39.85 | 995 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:52 | 45.28 | 40.18 | 989 | 0.24 | 0.37 | 54.1 |
| 4/19/2015 3:31:53 | 45.60 | 40.50 | 998 | 0.24 | 0.37 | 54.6 |
| 4/19/2015 3:31:53 | 45.93 | 40.83 | 998 | 0.24 | 0.37 | 54.6 |
| 4/19/2015 3:31:53 | 46.26 | 41.16 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/19/2015 3:31:54 | 46.59 | 41.49 | 1,007 | 0.24 | 0.37 | 55.1 |
| 4/19/2015 3:31:55 | 46.92 | 41.82 | 1,007 | 0.24 | 0.37 | 55.1 |
| 4/19/2015 3:31:55 | 47.24 | 42.14 | 994 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 3:31:55 | 47.57 | 42.47 | 997 | 0.24 | 0.37 | 54.5 |
| 4/19/2015 3:31:56 | 47.90 | 42.80 | 998 | 0.24 | 0.37 | 54.6 |
| 4/19/2015 3:31:56 | 48.23 | 43.13 | 998 | 0.24 | 0.37 | 54.6 |
| 4/19/2015 3:31:56 | 48.56 | 43.46 | 989 | 0.24 | 0.37 | 54.1 |
| 4/19/2015 3:31:57 | 48.88 | 43.78 | 977 | 0.24 | 0.37 | 53.4 |
| 4/19/2015 3:31:57 | 49.21 | 44.11 | 948 | 0.24 | 0.37 | 51.8 |
| 4/19/2015 3:31:58 | 49.54 | 44.44 | 948 | 0.24 | 0.37 | 51.8 |
| 4/19/2015 3:31:58 | 49.87 | 44.77 | 910 | 0.24 | 0.37 | 49.8 |
| 4/19/2015 3:31:58 | 50.20 | 45.10 | 854 | 0.24 | 0.37 | 46.7 |
| 4/19/2015 3:31:59 | 50.53 | 45.43 | 732 | 0.24 | 0.37 | 40.0 |
| 4/19/2015 3:32:00 | 50.85 | 45.75 | 694 | 0.24 | 0.37 | 38.0 |
| 4/19/2015 3:32:00 | 51.18 | 46.08 | 643 | 0.24 | 0.37 | 35.1 |
| 4/19/2015 3:32:01 | 51.51 | 46.41 | 605 | 0.24 | 0.37 | 33.1 |
| 4/19/2015 3:32:34 | 51.84 | 46.74 | 29 | 0.24 | 0.37 | 1.6 |
| 4/19/2015 3:32:35 | 52.17 | 47.07 | 29 | 0.24 | 0.37 | 1.6 |
| 4/19/2015 3:32:35 | 52.49 | 47.39 | 181 | 0.24 | 0.37 | 9.9 |
| 4/19/2015 3:32:35 | 52.82 | 47.72 | 335 | 0.24 | 0.37 | 18.3 |
| 4/19/2015 3:32:36 | 53.15 | 48.05 | 483 | 0.24 | 0.37 | 26.4 |
| 4/19/2015 3:32:43 | 53.48 | 48.38 | 6 | 0.24 | 0.37 | 0.3 |
| 4/19/2015 3:32:44 | 53.81 | 48.71 | 136 | 0.24 | 0.37 | 7.5 |
| 4/19/2015 3:32:44 | 54.13 | 49.03 | 210 | 0.24 | 0.37 | 11.5 |
| 4/19/2015 3:32:48 | 54.46 | 49.36 | 128 | 0.24 | 0.37 | 7.0 |
| 4/19/2015 3:32:51 | 54.79 | 49.69 | 90 | 0.24 | 0.37 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 3:32:55 | 55.12 | 50.02 | 89 | 0.24 | 0.37 | 4.9 |
| 4/19/2015 | 3:32:55 | 55.45 | 50.35 | 190 | 0.24 | 0.37 | 10.4 |
| 4/19/2015 | 3:32:56 | 55.77 | 50.67 | 289 | 0.24 | 0.37 | 15.8 |
| 4/19/2015 | 3:32:57 | 56.10 | 51.00 | 451 | 0.24 | 0.37 | 24.7 |
| 4/19/2015 | 3:32:59 | 56.43 | 51.33 | 154 | 0.24 | 0.37 | 8.4 |
| 4/19/2015 | 3:33:01 | 56.76 | 51.66 | 211 | 0.24 | 0.37 | 11.6 |
| 4/19/2015 | 3:33:02 | 57.09 | 51.99 | 220 | 0.24 | 0.37 | 12.0 |
| 4/19/2015 | 3:33:04 | 57.41 | 52.31 | 206 | 0.24 | 0.37 | 11.3 |
| 4/19/2015 | 3:33:07 | 57.74 | 52.64 | 159 | 0.24 | 0.37 | 8.7 |
| 4/19/2015 | 3:33:09 | 58.07 | 52.97 | 177 | 0.24 | 0.37 | 9.7 |
| 4/19/2015 | 3:33:10 | 58.40 | 53.30 | 180 | 0.24 | 0.37 | 9.9 |
| 4/19/2015 | 3:33:13 | 58.73 | 53.63 | 169 | 0.24 | 0.37 | 9.2 |
| 4/19/2015 | 3:33:15 | 59.06 | 53.96 | 153 | 0.24 | 0.37 | 8.4 |
| 4/19/2015 | 3:33:18 | 59.38 | 54.28 | 126 | 0.24 | 0.37 | 6.9 |
| 4/19/2015 | 3:33:21 | 59.71 | 54.61 | 108 | 0.24 | 0.37 | 5.9 |
| 4/19/2015 | 3:33:24 | 60.04 | 54.94 | 113 | 0.24 | 0.37 | 6.2 |
| 4/19/2015 | 3:33:27 | 60.37 | 55.27 | 140 | 0.24 | 0.37 | 7.6 |
| 4/19/2015 | 3:33:28 | 60.51 | 55.41 | 160 | 0.24 | 0.37 | 8.8 |

## D25 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 3:26:42

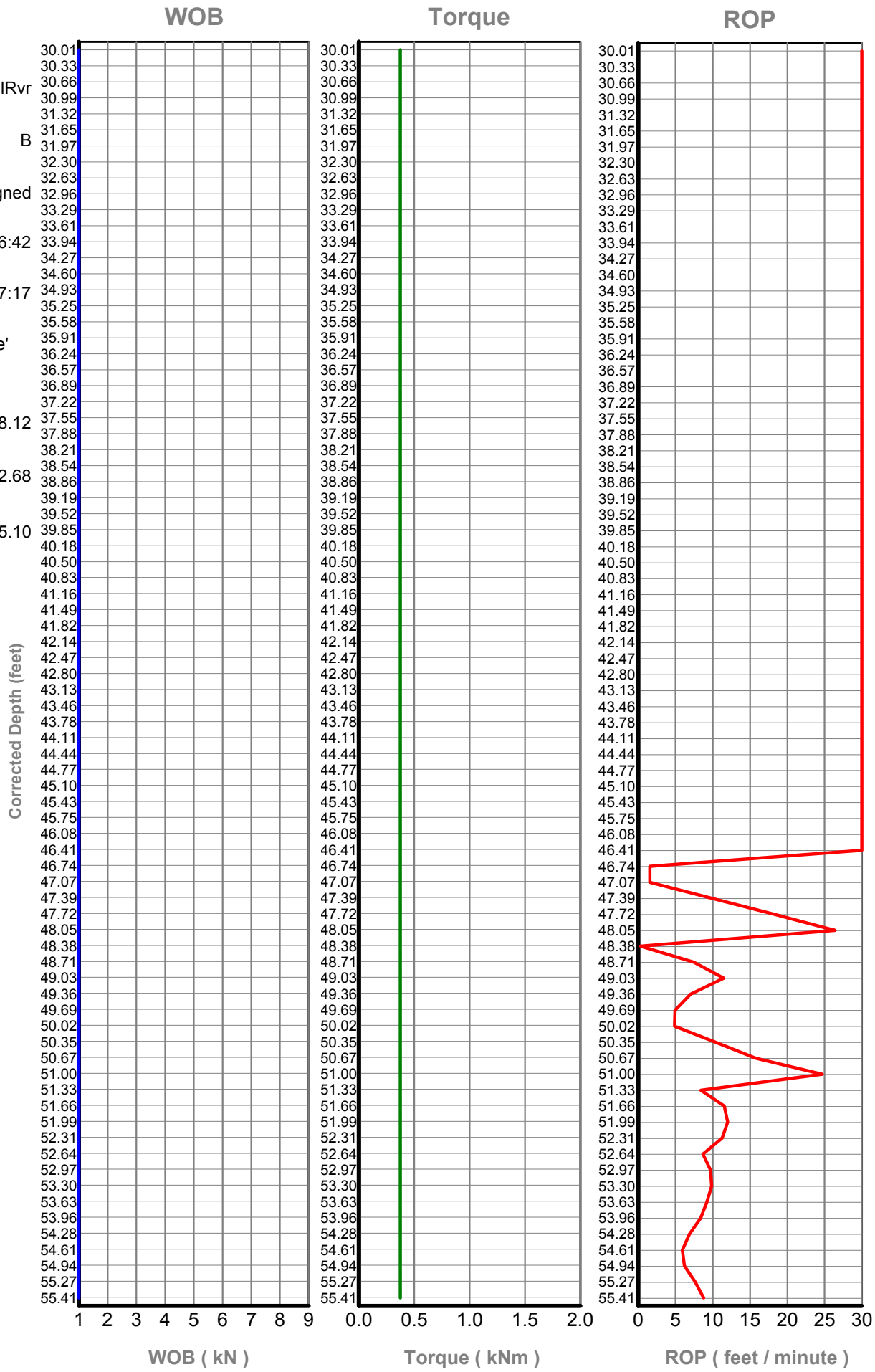
**End Date:**
4/19/2015 3:37:17

**Operator Note:**
'5.1 5,1 b Auto Complete'

**Northing:**
369,748.12

**Easting:**
255,052.68

**Tide (feet):**
5.10



## Hole: D26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 3:34:09 | 35.11 | 30.11 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:10 | 35.43 | 30.43 | 642 | 1.58 | 0.13 | 35.1 |
| 4/19/2015 3:34:10 | 35.76 | 30.76 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:11 | 36.09 | 31.09 | 642 | 1.58 | 0.13 | 35.1 |
| 4/19/2015 3:34:11 | 36.42 | 31.42 | 645 | 1.57 | 0.13 | 35.2 |
| 4/19/2015 3:34:12 | 36.75 | 31.75 | 642 | 1.59 | 0.13 | 35.1 |
| 4/19/2015 3:34:12 | 37.07 | 32.07 | 636 | 1.57 | 0.13 | 34.8 |
| 4/19/2015 3:34:13 | 37.40 | 32.40 | 635 | 1.57 | 0.13 | 34.7 |
| 4/19/2015 3:34:13 | 37.73 | 32.73 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:14 | 38.06 | 33.06 | 639 | 1.57 | 0.13 | 34.9 |
| 4/19/2015 3:34:14 | 38.39 | 33.39 | 639 | 1.56 | 0.13 | 34.9 |
| 4/19/2015 3:34:15 | 38.71 | 33.71 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:15 | 39.04 | 34.04 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:16 | 39.37 | 34.37 | 639 | 1.57 | 0.13 | 34.9 |
| 4/19/2015 3:34:17 | 39.70 | 34.70 | 638 | 1.57 | 0.13 | 34.9 |
| 4/19/2015 3:34:17 | 40.03 | 35.03 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:18 | 40.35 | 35.35 | 642 | 1.57 | 0.13 | 35.1 |
| 4/19/2015 3:34:19 | 40.68 | 35.68 | 625 | 1.58 | 0.13 | 34.2 |
| 4/19/2015 3:34:19 | 41.01 | 36.01 | 625 | 1.55 | 0.13 | 34.2 |
| 4/19/2015 3:34:20 | 41.34 | 36.34 | 635 | 1.58 | 0.13 | 34.7 |
| 4/19/2015 3:34:20 | 41.67 | 36.67 | 622 | 1.57 | 0.13 | 34.0 |
| 4/19/2015 3:34:21 | 41.99 | 36.99 | 622 | 1.57 | 0.13 | 34.0 |
| 4/19/2015 3:34:21 | 42.32 | 37.32 | 628 | 1.57 | 0.13 | 34.3 |
| 4/19/2015 3:34:22 | 42.65 | 37.65 | 632 | 1.58 | 0.13 | 34.6 |
| 4/19/2015 3:34:22 | 42.98 | 37.98 | 645 | 1.54 | 0.13 | 35.3 |
| 4/19/2015 3:34:23 | 43.31 | 38.31 | 635 | 1.57 | 0.13 | 34.7 |
| 4/19/2015 3:34:23 | 43.64 | 38.64 | 649 | 1.58 | 0.13 | 35.5 |
| 4/19/2015 3:34:24 | 43.96 | 38.96 | 645 | 1.59 | 0.13 | 35.3 |
| 4/19/2015 3:34:25 | 44.29 | 39.29 | 643 | 1.56 | 0.13 | 35.1 |
| 4/19/2015 3:34:25 | 44.62 | 39.62 | 635 | 1.58 | 0.13 | 34.7 |
| 4/19/2015 3:34:26 | 44.95 | 39.95 | 642 | 1.58 | 0.13 | 35.1 |
| 4/19/2015 3:34:26 | 45.28 | 40.28 | 635 | 1.58 | 0.13 | 34.7 |
| 4/19/2015 3:34:27 | 45.60 | 40.60 | 639 | 1.59 | 0.13 | 34.9 |
| 4/19/2015 3:34:27 | 45.93 | 40.93 | 635 | 1.59 | 0.13 | 34.7 |
| 4/19/2015 3:34:28 | 46.26 | 41.26 | 628 | 1.58 | 0.13 | 34.3 |
| 4/19/2015 3:34:28 | 46.59 | 41.59 | 628 | 1.57 | 0.13 | 34.3 |
| 4/19/2015 3:34:29 | 46.92 | 41.92 | 634 | 1.58 | 0.13 | 34.6 |
| 4/19/2015 3:34:30 | 47.24 | 42.24 | 634 | 1.59 | 0.13 | 34.6 |
| 4/19/2015 3:34:30 | 47.57 | 42.57 | 630 | 1.58 | 0.13 | 34.4 |
| 4/19/2015 3:34:31 | 47.90 | 42.90 | 637 | 1.58 | 0.13 | 34.8 |
| 4/19/2015 3:34:31 | 48.23 | 43.23 | 647 | 1.58 | 0.13 | 35.4 |
| 4/19/2015 3:34:32 | 48.56 | 43.56 | 635 | 1.57 | 0.13 | 34.7 |
| 4/19/2015 3:34:33 | 48.88 | 43.88 | 639 | 1.59 | 0.13 | 34.9 |
| 4/19/2015 3:34:33 | 49.21 | 44.21 | 636 | 1.61 | 0.13 | 34.8 |
| 4/19/2015 3:35:04 | 49.54 | 44.54 | 0 | 1.61 | 0.96 | 0.0 |
| 4/19/2015 3:35:05 | 49.87 | 44.87 | 109 | 1.62 | 1.00 | 5.9 |
| 4/19/2015 3:35:05 | 50.20 | 45.20 | 208 | 1.65 | 1.02 | 11.4 |
| 4/19/2015 3:35:06 | 50.53 | 45.53 | 412 | 1.63 | 0.96 | 22.5 |
| 4/19/2015 3:35:17 | 50.85 | 45.85 | 0 | 1.60 | 0.82 | 0.0 |
| 4/19/2015 3:35:18 | 51.18 | 46.18 | 160 | 1.64 | 0.96 | 8.8 |
| 4/19/2015 3:35:19 | 51.51 | 46.51 | 254 | 1.66 | 1.04 | 13.9 |
| 4/19/2015 3:35:20 | 51.84 | 46.84 | 414 | 1.77 | 1.31 | 22.6 |
| 4/19/2015 3:35:40 | 52.17 | 47.17 | 98 | 1.73 | 1.02 | 5.4 |
| 4/19/2015 3:35:50 | 52.49 | 47.49 | 44 | 1.74 | 1.36 | 2.4 |
| 4/19/2015 3:35:52 | 52.82 | 47.82 | 199 | 1.57 | 0.91 | 10.9 |
| 4/19/2015 3:36:26 | 53.15 | 48.15 | 0 | 1.59 | 0.77 | 0.0 |
| 4/19/2015 3:36:27 | 53.48 | 48.48 | 109 | 1.59 | 0.80 | 5.9 |
| 4/19/2015 3:36:28 | 53.81 | 48.81 | 299 | 1.67 | 1.11 | 16.4 |
| 4/19/2015 3:36:29 | 54.13 | 49.13 | 433 | 1.70 | 1.07 | 23.7 |
| 4/19/2015 3:36:30 | 54.46 | 49.46 | 341 | 1.86 | 1.04 | 18.7 |
| 4/19/2015 3:38:13 | 54.79 | 49.79 | 33 | 1.78 | 1.24 | 1.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 3:38:15 | 55.12 | 50.12 | 148 | 1.79 | 1.24 | 8.1 |
| 4/19/2015 | 3:38:27 | 55.45 | 50.45 | 0 | 1.76 | 1.11 | 0.0 |
| 4/19/2015 | 3:38:29 | 55.77 | 50.77 | 132 | 1.76 | 1.11 | 7.2 |
| 4/19/2015 | 3:38:30 | 56.10 | 51.10 | 239 | 1.78 | 1.22 | 13.1 |
| 4/19/2015 | 3:38:32 | 56.43 | 51.43 | 256 | 1.79 | 1.08 | 14.0 |
| 4/19/2015 | 3:38:33 | 56.76 | 51.76 | 256 | 1.68 | 1.12 | 14.0 |
| 4/19/2015 | 3:38:38 | 57.09 | 52.09 | 0 | 1.64 | 0.90 | 0.0 |
| 4/19/2015 | 3:38:42 | 57.41 | 52.41 | 125 | 1.81 | 1.17 | 6.8 |
| 4/19/2015 | 3:38:52 | 57.74 | 52.74 | 71 | 1.71 | 1.02 | 3.9 |
| 4/19/2015 | 3:38:53 | 58.07 | 53.07 | 106 | 1.70 | 1.02 | 5.8 |
| 4/19/2015 | 3:38:54 | 58.40 | 53.40 | 265 | 1.74 | 1.13 | 14.5 |
| 4/19/2015 | 3:39:00 | 58.73 | 53.73 | 57 | 1.70 | 0.93 | 3.1 |
| 4/19/2015 | 3:39:01 | 59.06 | 54.06 | 174 | 1.74 | 1.05 | 9.5 |
| 4/19/2015 | 3:39:02 | 59.38 | 54.38 | 237 | 1.93 | 1.10 | 12.9 |
| 4/19/2015 | 3:39:03 | 59.71 | 54.71 | 271 | 1.76 | 1.12 | 14.8 |
| 4/19/2015 | 3:39:05 | 60.04 | 55.04 | 241 | 1.76 | 1.10 | 13.2 |
| 4/19/2015 | 3:39:06 | 60.32 | 55.32 | 230 | 1.74 | 1.14 | 12.6 |

## D26 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 3:29:00

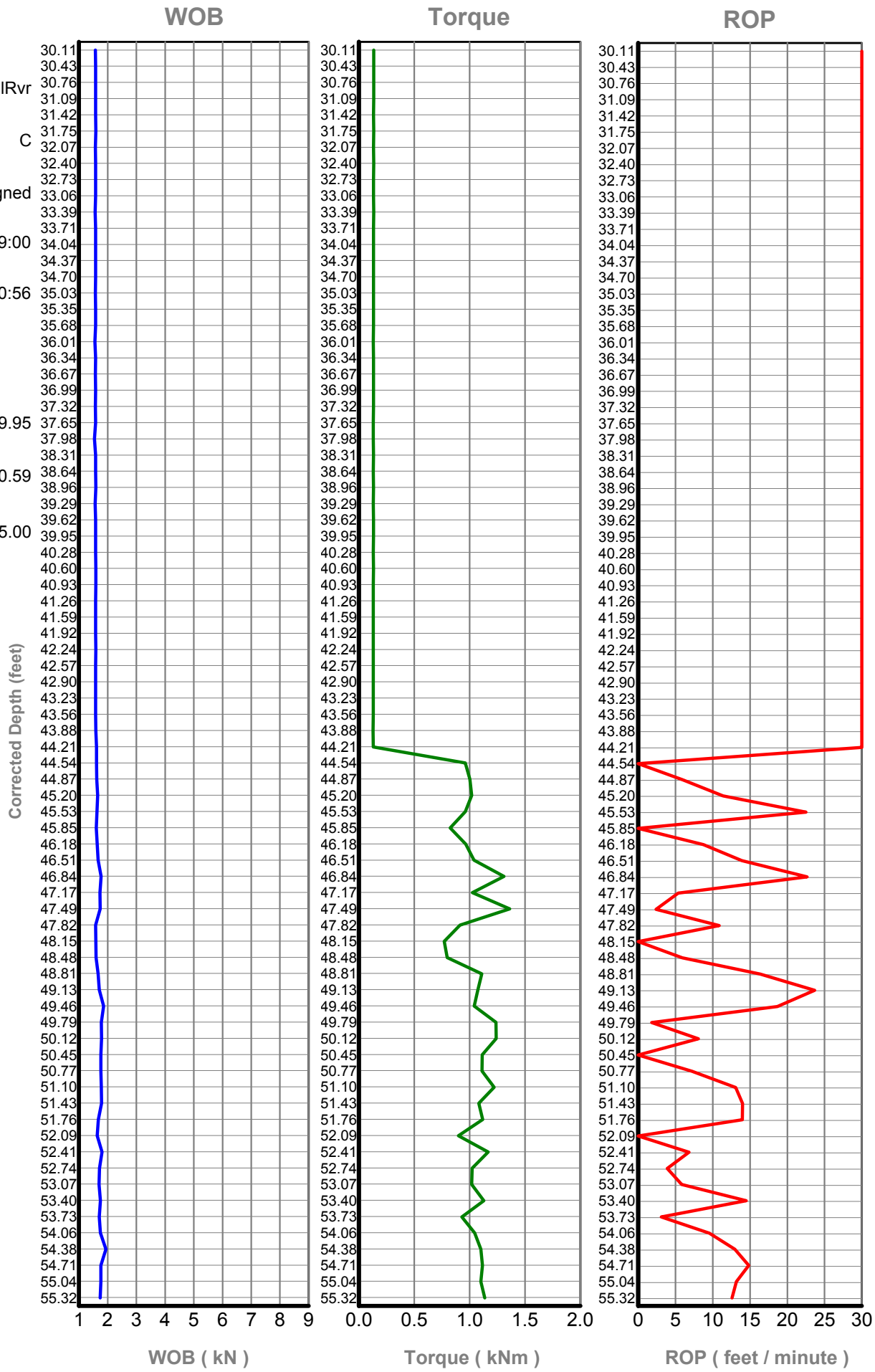
**End Date:**
4/19/2015 3:40:56

**Operator Note:**
'5 '4.6 5.1 c Auto Complete'

**Northing:**
369,779.95

**Easting:**
255,120.59

**Tide (feet):**
5.00



## Hole: D27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 3:49:49 | 34.78 | 30.18 | 625 | 1.53 | 0.13 | 34.2 |
| 4/19/2015 3:49:49 | 35.11 | 30.51 | 608 | 1.53 | 0.13 | 33.3 |
| 4/19/2015 3:49:50 | 35.43 | 30.83 | 608 | 1.52 | 0.13 | 33.3 |
| 4/19/2015 3:49:50 | 35.76 | 31.16 | 626 | 1.52 | 0.13 | 34.2 |
| 4/19/2015 3:49:51 | 36.09 | 31.49 | 622 | 1.53 | 0.13 | 34.0 |
| 4/19/2015 3:49:52 | 36.42 | 31.82 | 619 | 1.53 | 0.13 | 33.8 |
| 4/19/2015 3:49:52 | 36.75 | 32.15 | 636 | 1.53 | 0.13 | 34.8 |
| 4/19/2015 3:49:53 | 37.07 | 32.47 | 628 | 1.53 | 0.13 | 34.3 |
| 4/19/2015 3:49:53 | 37.40 | 32.80 | 631 | 1.53 | 0.13 | 34.5 |
| 4/19/2015 3:49:54 | 37.73 | 33.13 | 621 | 1.52 | 0.13 | 33.9 |
| 4/19/2015 3:49:54 | 38.06 | 33.46 | 631 | 1.52 | 0.13 | 34.5 |
| 4/19/2015 3:49:55 | 38.39 | 33.79 | 612 | 1.53 | 0.13 | 33.4 |
| 4/19/2015 3:49:56 | 38.71 | 34.11 | 612 | 1.53 | 0.13 | 33.4 |
| 4/19/2015 3:49:56 | 39.04 | 34.44 | 615 | 1.53 | 0.13 | 33.7 |
| 4/19/2015 3:49:57 | 39.37 | 34.77 | 615 | 1.53 | 0.13 | 33.7 |
| 4/19/2015 3:49:57 | 39.70 | 35.10 | 616 | 1.53 | 0.13 | 33.7 |
| 4/19/2015 3:49:58 | 40.03 | 35.43 | 612 | 1.53 | 0.13 | 33.5 |
| 4/19/2015 3:49:59 | 40.35 | 35.75 | 629 | 1.53 | 0.13 | 34.4 |
| 4/19/2015 3:49:59 | 40.68 | 36.08 | 633 | 1.53 | 0.13 | 34.6 |
| 4/19/2015 3:50:00 | 41.01 | 36.41 | 615 | 1.53 | 0.13 | 33.6 |
| 4/19/2015 3:50:00 | 41.34 | 36.74 | 615 | 1.53 | 0.13 | 33.6 |
| 4/19/2015 3:50:01 | 41.67 | 37.07 | 618 | 1.53 | 0.13 | 33.8 |
| 4/19/2015 3:50:01 | 41.99 | 37.39 | 625 | 1.53 | 0.13 | 34.2 |
| 4/19/2015 3:50:02 | 42.32 | 37.72 | 625 | 1.52 | 0.13 | 34.2 |
| 4/19/2015 3:50:02 | 42.65 | 38.05 | 617 | 1.52 | 0.13 | 33.7 |
| 4/19/2015 3:50:03 | 42.98 | 38.38 | 627 | 1.53 | 0.13 | 34.3 |
| 4/19/2015 3:50:04 | 43.31 | 38.71 | 621 | 1.53 | 0.14 | 34.0 |
| 4/19/2015 3:50:04 | 43.64 | 39.04 | 618 | 1.55 | 0.13 | 33.8 |
| 4/19/2015 3:50:05 | 43.96 | 39.36 | 621 | 1.53 | 0.13 | 34.0 |
| 4/19/2015 3:50:05 | 44.29 | 39.69 | 615 | 1.53 | 0.13 | 33.6 |
| 4/19/2015 3:50:06 | 44.62 | 40.02 | 622 | 1.52 | 0.13 | 34.0 |
| 4/19/2015 3:50:29 | 44.95 | 40.35 | 0 | 1.62 | 1.03 | 0.0 |
| 4/19/2015 3:50:43 | 45.28 | 40.68 | 40 | 1.71 | 1.17 | 2.2 |
| 4/19/2015 3:50:47 | 45.60 | 41.00 | 66 | 1.65 | 1.22 | 3.6 |
| 4/19/2015 3:50:49 | 45.93 | 41.33 | 190 | 1.67 | 1.24 | 10.4 |
| 4/19/2015 3:51:20 | 46.26 | 41.66 | 52 | 1.68 | 1.14 | 2.8 |
| 4/19/2015 3:51:22 | 46.59 | 41.99 | 199 | 1.68 | 1.09 | 10.9 |
| 4/19/2015 3:51:47 | 46.92 | 42.32 | 37 | 1.67 | 0.95 | 2.0 |
| 4/19/2015 3:51:48 | 47.24 | 42.64 | 173 | 1.68 | 1.13 | 9.5 |
| 4/19/2015 3:51:50 | 47.57 | 42.97 | 306 | 1.70 | 1.18 | 16.8 |
| 4/19/2015 3:52:17 | 47.90 | 43.30 | 33 | 1.66 | 1.07 | 1.8 |
| 4/19/2015 3:52:30 | 48.23 | 43.63 | 74 | 1.59 | 0.88 | 4.1 |
| 4/19/2015 3:52:30 | 48.56 | 43.96 | 160 | 1.57 | 0.78 | 8.7 |
| 4/19/2015 3:52:31 | 48.88 | 44.28 | 263 | 1.55 | 0.78 | 14.4 |
| 4/19/2015 3:52:32 | 49.21 | 44.61 | 420 | 1.59 | 1.05 | 22.9 |
| 4/19/2015 3:52:45 | 49.54 | 44.94 | 20 | 1.68 | 1.17 | 1.1 |
| 4/19/2015 3:52:46 | 49.87 | 45.27 | 164 | 1.73 | 1.18 | 9.0 |
| 4/19/2015 3:52:48 | 50.20 | 45.60 | 219 | 1.71 | 1.51 | 12.0 |
| 4/19/2015 3:52:50 | 50.53 | 45.93 | 185 | 1.71 | 1.11 | 10.1 |
| 4/19/2015 3:52:51 | 50.85 | 46.25 | 196 | 1.69 | 1.12 | 10.7 |
| 4/19/2015 3:54:05 | 51.18 | 46.58 | 0 | 1.98 | 1.45 | 0.0 |
| 4/19/2015 3:54:07 | 51.51 | 46.91 | 67 | 1.71 | 1.15 | 3.6 |
| 4/19/2015 3:54:08 | 51.84 | 47.24 | 210 | 1.72 | 1.08 | 11.5 |
| 4/19/2015 3:54:10 | 52.17 | 47.57 | 243 | 1.73 | 1.38 | 13.3 |
| 4/19/2015 3:54:11 | 52.49 | 47.89 | 234 | 1.73 | 1.13 | 12.8 |
| 4/19/2015 3:54:13 | 52.82 | 48.22 | 190 | 1.76 | 1.52 | 10.4 |
| 4/19/2015 3:54:25 | 53.15 | 48.55 | 60 | 1.72 | 1.15 | 3.3 |
| 4/19/2015 3:54:27 | 53.48 | 48.88 | 175 | 1.74 | 1.18 | 9.6 |
| 4/19/2015 3:54:29 | 53.81 | 49.21 | 217 | 1.74 | 1.17 | 11.9 |
| 4/19/2015 3:54:38 | 54.13 | 49.53 | 0 | 1.74 | 1.34 | 0.0 |
| 4/19/2015 3:54:44 | 54.46 | 49.86 | 55 | 1.79 | 1.32 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 3:54:52 | 54.79 | 50.19 | 49 | 1.80 | 1.28 | 2.7 |
| 4/19/2015 | 3:55:00 | 55.12 | 50.52 | 43 | 1.78 | 1.17 | 2.4 |
| 4/19/2015 | 3:55:14 | 55.45 | 50.85 | 20 | 1.80 | 1.19 | 1.1 |
| 4/19/2015 | 3:55:21 | 55.59 | 50.99 | 20 | 1.76 | 1.21 | 1.1 |

## D27 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 3:47:31

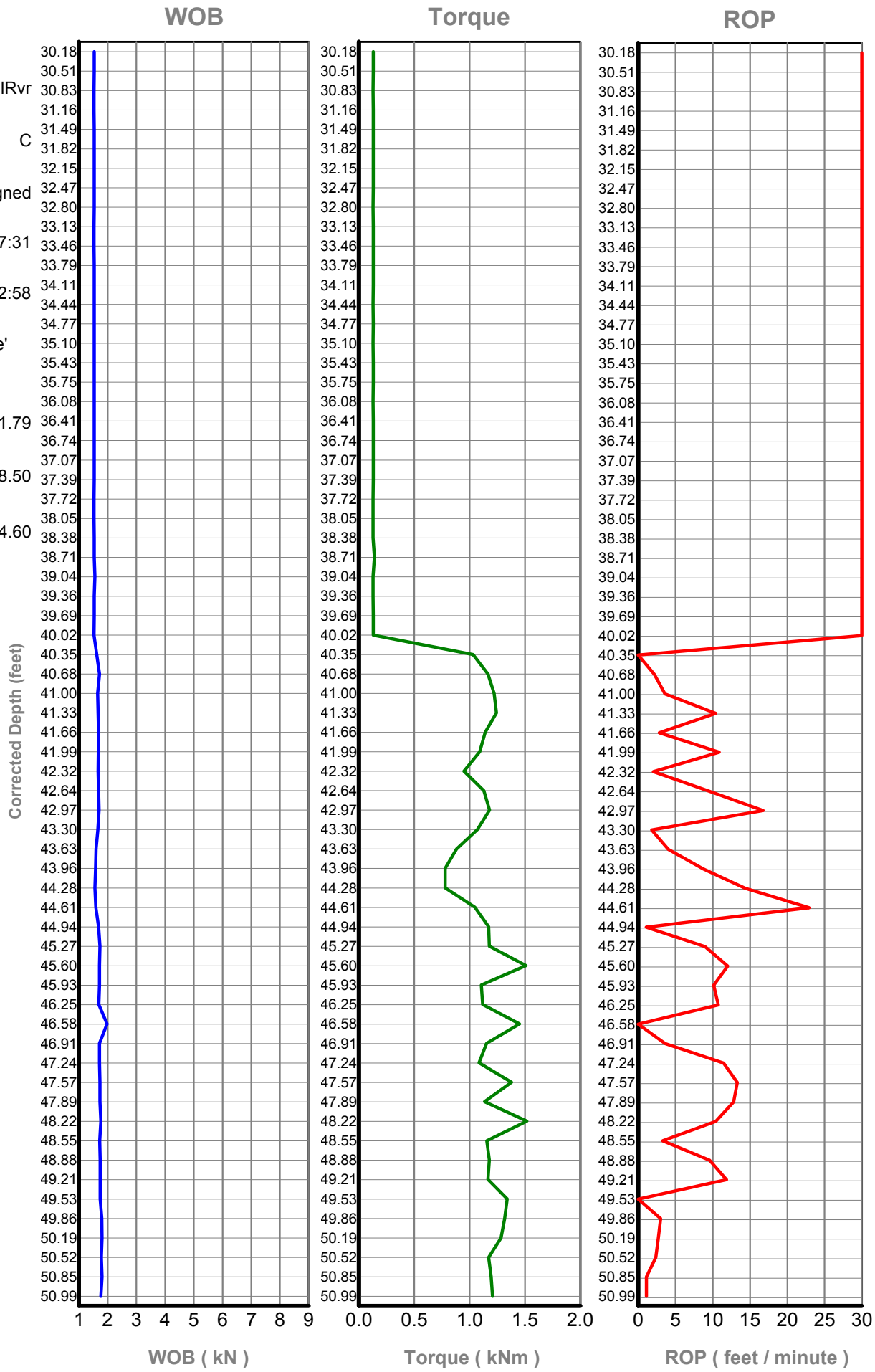
**End Date:**
4/19/2015 4:02:58

**Operator Note:**
'4.6 4.7 c Auto Complete'

**Northing:**
369,811.79

**Easting:**
255,188.50

**Tide (feet):**
4.60



## Hole: D28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 23:03:49 | 34.78 | 30.28 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 23:03:49 | 35.11 | 30.61 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 23:03:50 | 35.43 | 30.93 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 23:03:50 | 35.76 | 31.26 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 23:03:50 | 36.09 | 31.59 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:03:51 | 36.42 | 31.92 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:03:51 | 36.75 | 32.25 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 23:03:51 | 37.07 | 32.57 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 23:03:52 | 37.40 | 32.90 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 23:03:52 | 37.73 | 33.23 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 23:03:52 | 38.06 | 33.56 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 23:03:53 | 38.39 | 33.89 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 23:03:53 | 38.71 | 34.21 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 23:03:53 | 39.04 | 34.54 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 23:03:54 | 39.37 | 34.87 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:54 | 39.70 | 35.20 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:54 | 40.03 | 35.53 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:55 | 40.35 | 35.85 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:55 | 40.68 | 36.18 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:55 | 41.01 | 36.51 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:03:56 | 41.34 | 36.84 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:03:56 | 41.67 | 37.17 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:03:56 | 41.99 | 37.49 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 23:03:57 | 42.32 | 37.82 | 992 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 23:03:58 | 42.65 | 38.15 | 991 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 23:03:58 | 42.98 | 38.48 | 991 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 23:03:58 | 43.31 | 38.81 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:03:59 | 43.64 | 39.14 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 23:04:36 | 43.96 | 39.46 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 23:04:40 | 44.29 | 39.79 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 23:04:45 | 44.62 | 40.12 | 81 | 0.24 | 0.37 | 4.4 |
| 4/18/2015 23:04:49 | 44.95 | 40.45 | 105 | 0.24 | 0.37 | 5.7 |
| 4/18/2015 23:04:53 | 45.28 | 40.78 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 23:05:00 | 45.60 | 41.10 | 52 | 0.24 | 0.37 | 2.9 |
| 4/18/2015 23:05:06 | 45.93 | 41.43 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 23:05:12 | 46.26 | 41.76 | 58 | 0.24 | 0.37 | 3.2 |

## D28 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 23:00:30

**End Date:**
4/18/2015 23:06:17

**Operator Note:**
'4.5 4.1 b Auto Complete'

**Northing:**
369,850.28

**Easting:**
255,264.35

**Tide (feet):**
4.50



## Hole: D29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 23:12:27 | 35.11 | 30.31 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 23:12:27 | 35.43 | 30.63 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 23:12:27 | 35.76 | 30.96 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 23:12:28 | 36.09 | 31.29 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 23:12:28 | 36.42 | 31.62 | 972 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 23:12:28 | 36.75 | 31.95 | 971 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 23:12:29 | 37.07 | 32.27 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 23:12:29 | 37.40 | 32.60 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 23:12:29 | 37.73 | 32.93 | 966 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 23:12:32 | 38.06 | 33.26 | 229 | 0.24 | 0.37 | 12.5 |
| 4/18/2015 23:12:32 | 38.39 | 33.59 | 114 | 0.24 | 0.37 | 6.2 |
| 4/18/2015 23:12:33 | 38.71 | 33.91 | 274 | 0.24 | 0.37 | 15.0 |
| 4/18/2015 23:12:33 | 39.04 | 34.24 | 274 | 0.24 | 0.37 | 15.0 |
| 4/18/2015 23:12:33 | 39.37 | 34.57 | 480 | 0.24 | 0.37 | 26.2 |
| 4/18/2015 23:12:34 | 39.70 | 34.90 | 674 | 0.24 | 0.37 | 36.9 |
| 4/18/2015 23:12:35 | 40.03 | 35.23 | 674 | 0.24 | 0.37 | 36.9 |
| 4/18/2015 23:12:35 | 40.35 | 35.55 | 877 | 0.24 | 0.37 | 48.0 |
| 4/18/2015 23:12:35 | 40.68 | 35.88 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 23:12:36 | 41.01 | 36.21 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 23:12:36 | 41.34 | 36.54 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 23:12:36 | 41.67 | 36.87 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 23:12:37 | 41.99 | 37.19 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 23:12:37 | 42.32 | 37.52 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 23:12:37 | 42.65 | 37.85 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 23:12:38 | 42.98 | 38.18 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 23:12:38 | 43.31 | 38.51 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 23:12:38 | 43.64 | 38.84 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 23:12:39 | 43.96 | 39.16 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 23:12:39 | 44.29 | 39.49 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 23:12:39 | 44.62 | 39.82 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 23:13:00 | 44.95 | 40.15 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 23:13:09 | 45.28 | 40.48 | 36 | 0.24 | 0.37 | 2.0 |
| 4/18/2015 23:13:13 | 45.60 | 40.80 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 23:13:16 | 45.93 | 41.13 | 98 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 23:13:20 | 46.26 | 41.46 | 101 | 0.24 | 0.37 | 5.5 |
| 4/18/2015 23:13:24 | 46.59 | 41.79 | 89 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 23:13:27 | 46.92 | 42.12 | 129 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 23:13:29 | 47.24 | 42.44 | 134 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 23:13:32 | 47.57 | 42.77 | 143 | 0.24 | 0.37 | 7.8 |
| 4/18/2015 23:13:35 | 47.90 | 43.10 | 118 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 23:13:40 | 48.23 | 43.43 | 76 | 0.24 | 0.37 | 4.2 |
| 4/18/2015 23:13:44 | 48.56 | 43.76 | 92 | 0.24 | 0.37 | 5.0 |
| 4/18/2015 23:13:48 | 48.88 | 44.08 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 23:13:52 | 49.21 | 44.41 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 23:13:56 | 49.54 | 44.74 | 89 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 23:14:00 | 49.87 | 45.07 | 80 | 0.24 | 0.37 | 4.3 |
| 4/18/2015 23:14:06 | 50.20 | 45.40 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 23:14:12 | 50.53 | 45.73 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 23:14:18 | 50.85 | 46.05 | 65 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 23:14:24 | 51.16 | 46.36 | 61 | 0.24 | 0.37 | 3.3 |

## D29 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 23:10:41

**End Date:**
4/18/2015 23:15:55

**Operator Note:**
'4.8 4.1 b Auto Complete'

**Northing:**
369,881.66

**Easting:**
255,332.47

**Tide (feet):**
4.80



## Hole: D3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 1:26:21 | 36.75 | 30.25 | 656 | 1.61 | 0.13 | 35.9 |
| 4/19/2015 1:26:21 | 37.07 | 30.57 | 658 | 1.62 | 0.13 | 36.0 |
| 4/19/2015 1:26:21 | 37.40 | 30.90 | 662 | 1.62 | 0.13 | 36.2 |
| 4/19/2015 1:26:22 | 37.73 | 31.23 | 651 | 1.62 | 0.13 | 35.6 |
| 4/19/2015 1:26:22 | 38.06 | 31.56 | 658 | 1.61 | 0.13 | 36.0 |
| 4/19/2015 1:26:23 | 38.39 | 31.89 | 661 | 1.61 | 0.13 | 36.1 |
| 4/19/2015 1:26:23 | 38.71 | 32.21 | 659 | 1.62 | 0.13 | 36.1 |
| 4/19/2015 1:26:24 | 39.04 | 32.54 | 659 | 1.61 | 0.13 | 36.1 |
| 4/19/2015 1:26:24 | 39.37 | 32.87 | 663 | 1.61 | 0.13 | 36.3 |
| 4/19/2015 1:26:25 | 39.70 | 33.20 | 659 | 1.62 | 0.13 | 36.0 |
| 4/19/2015 1:26:25 | 40.03 | 33.53 | 656 | 1.60 | 0.13 | 35.9 |
| 4/19/2015 1:26:26 | 40.35 | 33.85 | 659 | 1.62 | 0.13 | 36.0 |
| 4/19/2015 1:26:26 | 40.68 | 34.18 | 652 | 1.62 | 0.13 | 35.7 |
| 4/19/2015 1:26:27 | 41.01 | 34.51 | 659 | 1.62 | 0.13 | 36.0 |
| 4/19/2015 1:26:27 | 41.34 | 34.84 | 656 | 1.62 | 0.13 | 35.9 |
| 4/19/2015 1:26:28 | 41.67 | 35.17 | 659 | 1.61 | 0.13 | 36.0 |
| 4/19/2015 1:26:29 | 41.99 | 35.49 | 653 | 1.62 | 0.13 | 35.7 |
| 4/19/2015 1:26:29 | 42.32 | 35.82 | 664 | 1.60 | 0.14 | 36.3 |
| 4/19/2015 1:26:30 | 42.65 | 36.15 | 657 | 1.61 | 0.13 | 35.9 |
| 4/19/2015 1:26:31 | 42.98 | 36.48 | 646 | 1.61 | 0.12 | 35.3 |
| 4/19/2015 1:26:31 | 43.31 | 36.81 | 649 | 1.62 | 0.13 | 35.5 |
| 4/19/2015 1:26:32 | 43.64 | 37.14 | 653 | 1.62 | 0.13 | 35.7 |
| 4/19/2015 1:26:32 | 43.96 | 37.46 | 645 | 1.62 | 0.13 | 35.3 |
| 4/19/2015 1:26:33 | 44.29 | 37.79 | 646 | 1.61 | 0.13 | 35.3 |
| 4/19/2015 1:26:33 | 44.62 | 38.12 | 663 | 1.61 | 0.13 | 36.2 |
| 4/19/2015 1:26:34 | 44.95 | 38.45 | 653 | 1.61 | 0.13 | 35.7 |
| 4/19/2015 1:26:34 | 45.28 | 38.78 | 653 | 1.60 | 0.13 | 35.7 |
| 4/19/2015 1:26:35 | 45.60 | 39.10 | 653 | 1.61 | 0.13 | 35.7 |
| 4/19/2015 1:26:35 | 45.93 | 39.43 | 656 | 1.61 | 0.13 | 35.9 |
| 4/19/2015 1:26:36 | 46.26 | 39.76 | 650 | 1.61 | 0.13 | 35.5 |
| 4/19/2015 1:26:36 | 46.59 | 40.09 | 653 | 1.62 | 0.13 | 35.7 |
| 4/19/2015 1:26:37 | 46.92 | 40.42 | 653 | 1.62 | 0.13 | 35.7 |
| 4/19/2015 1:26:37 | 47.24 | 40.74 | 656 | 1.65 | 0.13 | 35.9 |
| 4/19/2015 1:27:04 | 47.57 | 41.07 | 28 | 1.65 | 1.05 | 1.5 |
| 4/19/2015 1:27:09 | 47.90 | 41.40 | 1 | 1.79 | 1.35 | 0.1 |
| 4/19/2015 1:27:15 | 48.23 | 41.73 | 91 | 1.73 | 1.25 | 5.0 |
| 4/19/2015 1:27:16 | 48.56 | 42.06 | 177 | 1.80 | 1.36 | 9.7 |
| 4/19/2015 1:27:31 | 48.88 | 42.38 | 98 | 1.75 | 1.18 | 5.4 |
| 4/19/2015 1:27:32 | 49.21 | 42.71 | 210 | 1.74 | 1.13 | 11.5 |
| 4/19/2015 1:27:33 | 49.54 | 43.04 | 272 | 1.78 | 1.14 | 14.9 |
| 4/19/2015 1:27:57 | 49.87 | 43.37 | 63 | 1.76 | 1.17 | 3.4 |
| 4/19/2015 1:27:58 | 50.20 | 43.70 | 113 | 1.79 | 1.17 | 6.2 |
| 4/19/2015 1:28:01 | 50.53 | 44.03 | 177 | 1.79 | 1.10 | 9.7 |
| 4/19/2015 1:28:03 | 50.85 | 44.35 | 156 | 1.79 | 1.27 | 8.5 |
| 4/19/2015 1:28:04 | 51.18 | 44.68 | 182 | 1.81 | 1.26 | 9.9 |
| 4/19/2015 1:28:38 | 51.51 | 45.01 | 0 | 1.79 | 1.14 | 0.0 |
| 4/19/2015 1:28:39 | 51.84 | 45.34 | 107 | 1.79 | 1.13 | 5.9 |
| 4/19/2015 1:28:40 | 52.17 | 45.67 | 238 | 1.79 | 1.11 | 13.0 |
| 4/19/2015 1:28:43 | 52.49 | 45.99 | 254 | 1.80 | 1.27 | 13.9 |
| 4/19/2015 1:28:44 | 52.82 | 46.32 | 232 | 1.81 | 1.35 | 12.7 |
| 4/19/2015 1:28:45 | 53.15 | 46.65 | 286 | 1.78 | 1.10 | 15.6 |
| 4/19/2015 1:28:52 | 53.48 | 46.98 | 0 | 1.79 | 1.29 | 0.0 |
| 4/19/2015 1:28:54 | 53.81 | 47.31 | 108 | 1.77 | 1.09 | 5.9 |
| 4/19/2015 1:28:55 | 54.13 | 47.63 | 239 | 1.78 | 1.06 | 13.1 |
| 4/19/2015 1:28:56 | 54.46 | 47.96 | 326 | 1.76 | 1.06 | 17.8 |
| 4/19/2015 1:28:57 | 54.79 | 48.29 | 315 | 1.79 | 1.16 | 17.2 |
| 4/19/2015 1:28:59 | 55.12 | 48.62 | 226 | 1.81 | 1.08 | 12.4 |
| 4/19/2015 1:29:00 | 55.45 | 48.95 | 224 | 1.80 | 1.12 | 12.3 |
| 4/19/2015 1:29:01 | 55.77 | 49.27 | 299 | 1.80 | 1.09 | 16.4 |
| 4/19/2015 1:29:03 | 56.10 | 49.60 | 301 | 1.80 | 1.10 | 16.4 |
| 4/19/2015 1:29:03 | 56.43 | 49.93 | 299 | 1.81 | 1.10 | 16.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 1:29:05 | 56.76 | 50.26 | 285 | 1.82 | 1.12 | 15.6 |
| 4/19/2015 | 1:29:06 | 57.09 | 50.59 | 283 | 1.81 | 1.11 | 15.5 |
| 4/19/2015 | 1:29:08 | 57.41 | 50.91 | 275 | 1.80 | 1.19 | 15.0 |
| 4/19/2015 | 1:29:16 | 57.74 | 51.24 | 74 | 1.81 | 1.10 | 4.1 |
| 4/19/2015 | 1:29:18 | 58.07 | 51.57 | 221 | 1.81 | 1.11 | 12.1 |
| 4/19/2015 | 1:29:19 | 58.40 | 51.90 | 231 | 1.80 | 1.11 | 12.6 |
| 4/19/2015 | 1:29:20 | 58.73 | 52.23 | 247 | 1.81 | 1.12 | 13.5 |
| 4/19/2015 | 1:29:22 | 59.06 | 52.56 | 221 | 1.85 | 1.20 | 12.1 |
| 4/19/2015 | 1:29:25 | 59.38 | 52.88 | 141 | 1.86 | 1.20 | 7.7 |
| 4/19/2015 | 1:29:29 | 59.71 | 53.21 | 90 | 1.84 | 1.11 | 4.9 |
| 4/19/2015 | 1:29:33 | 60.04 | 53.54 | 87 | 1.85 | 1.16 | 4.7 |
| 4/19/2015 | 1:29:39 | 60.37 | 53.87 | 58 | 1.85 | 1.27 | 3.2 |
| 4/19/2015 | 1:29:46 | 60.70 | 54.20 | 54 | 1.87 | 1.42 | 2.9 |
| 4/19/2015 | 1:30:11 | 60.98 | 54.48 | 53 | 1.87 | 1.44 | 2.9 |

## D3 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 1:24:00

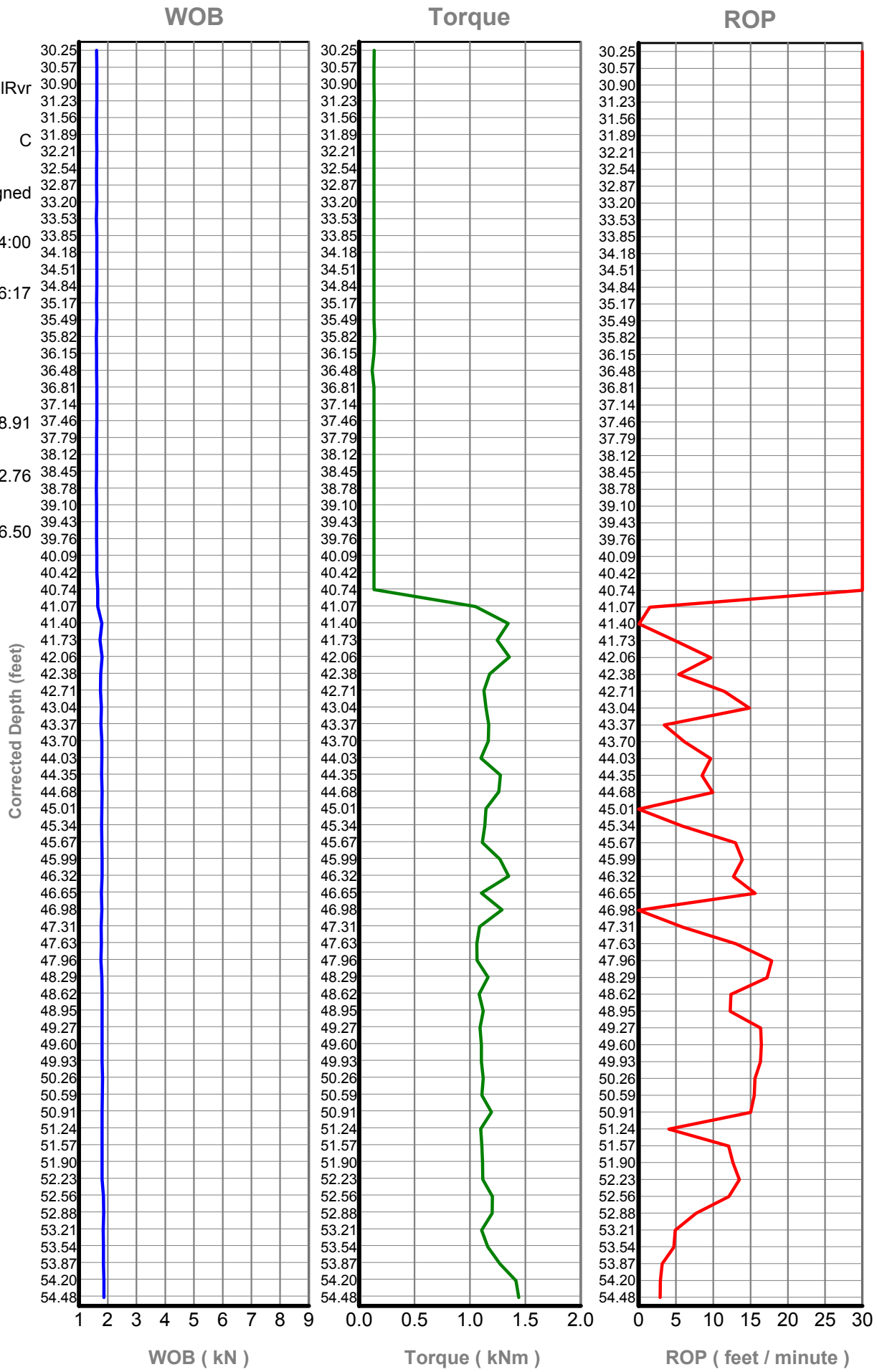
**End Date:**
4/19/2015 1:46:17

**Operator Note:**
'6.5 6.65 c Auto Complete'

**Northing:**
369,948.91

**Easting:**
255,142.76

**Tide (feet):**
6.50



## Hole: D30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 23:03:36 | 34.78 | 30.28 | 672 | 1.59 | 0.13 | 36.8 |
| 4/18/2015 23:03:37 | 35.11 | 30.61 | 679 | 1.60 | 0.13 | 37.2 |
| 4/18/2015 23:03:37 | 35.43 | 30.93 | 675 | 1.59 | 0.13 | 36.9 |
| 4/18/2015 23:03:38 | 35.76 | 31.26 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:39 | 36.09 | 31.59 | 674 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 23:03:39 | 36.42 | 31.92 | 684 | 1.61 | 0.13 | 37.4 |
| 4/18/2015 23:03:40 | 36.75 | 32.25 | 674 | 1.59 | 0.13 | 36.8 |
| 4/18/2015 23:03:40 | 37.07 | 32.57 | 678 | 1.59 | 0.13 | 37.1 |
| 4/18/2015 23:03:41 | 37.40 | 32.90 | 677 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:41 | 37.73 | 33.23 | 679 | 1.60 | 0.13 | 37.2 |
| 4/18/2015 23:03:42 | 38.06 | 33.56 | 672 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 23:03:42 | 38.39 | 33.89 | 679 | 1.60 | 0.13 | 37.1 |
| 4/18/2015 23:03:43 | 38.71 | 34.21 | 672 | 1.59 | 0.13 | 36.8 |
| 4/18/2015 23:03:43 | 39.04 | 34.54 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:44 | 39.37 | 34.87 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:44 | 39.70 | 35.20 | 681 | 1.61 | 0.13 | 37.2 |
| 4/18/2015 23:03:45 | 40.03 | 35.53 | 676 | 1.59 | 0.13 | 37.0 |
| 4/18/2015 23:03:45 | 40.35 | 35.85 | 679 | 1.60 | 0.13 | 37.1 |
| 4/18/2015 23:03:46 | 40.68 | 36.18 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:46 | 41.01 | 36.51 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:47 | 41.34 | 36.84 | 672 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 23:03:47 | 41.67 | 37.17 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:48 | 41.99 | 37.49 | 674 | 1.61 | 0.13 | 36.8 |
| 4/18/2015 23:03:49 | 42.32 | 37.82 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:49 | 42.65 | 38.15 | 676 | 1.61 | 0.13 | 37.0 |
| 4/18/2015 23:03:50 | 42.98 | 38.48 | 676 | 1.60 | 0.13 | 37.0 |
| 4/18/2015 23:03:50 | 43.31 | 38.81 | 674 | 1.61 | 0.13 | 36.8 |
| 4/18/2015 23:03:51 | 43.64 | 39.14 | 674 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 23:03:51 | 43.96 | 39.46 | 667 | 1.59 | 0.13 | 36.5 |
| 4/18/2015 23:03:52 | 44.29 | 39.79 | 674 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 23:04:25 | 44.62 | 40.12 | 15 | 1.76 | 1.14 | 0.8 |
| 4/18/2015 23:04:31 | 44.95 | 40.45 | 75 | 1.76 | 1.22 | 4.1 |
| 4/18/2015 23:04:35 | 45.28 | 40.78 | 81 | 1.83 | 1.11 | 4.4 |
| 4/18/2015 23:04:42 | 45.60 | 41.10 | 61 | 1.81 | 1.20 | 3.3 |
| 4/18/2015 23:04:49 | 45.93 | 41.43 | 43 | 1.87 | 1.18 | 2.4 |
| 4/18/2015 23:04:52 | 46.10 | 41.60 | 46 | 1.82 | 1.23 | 2.5 |

## D30 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 22:59:53

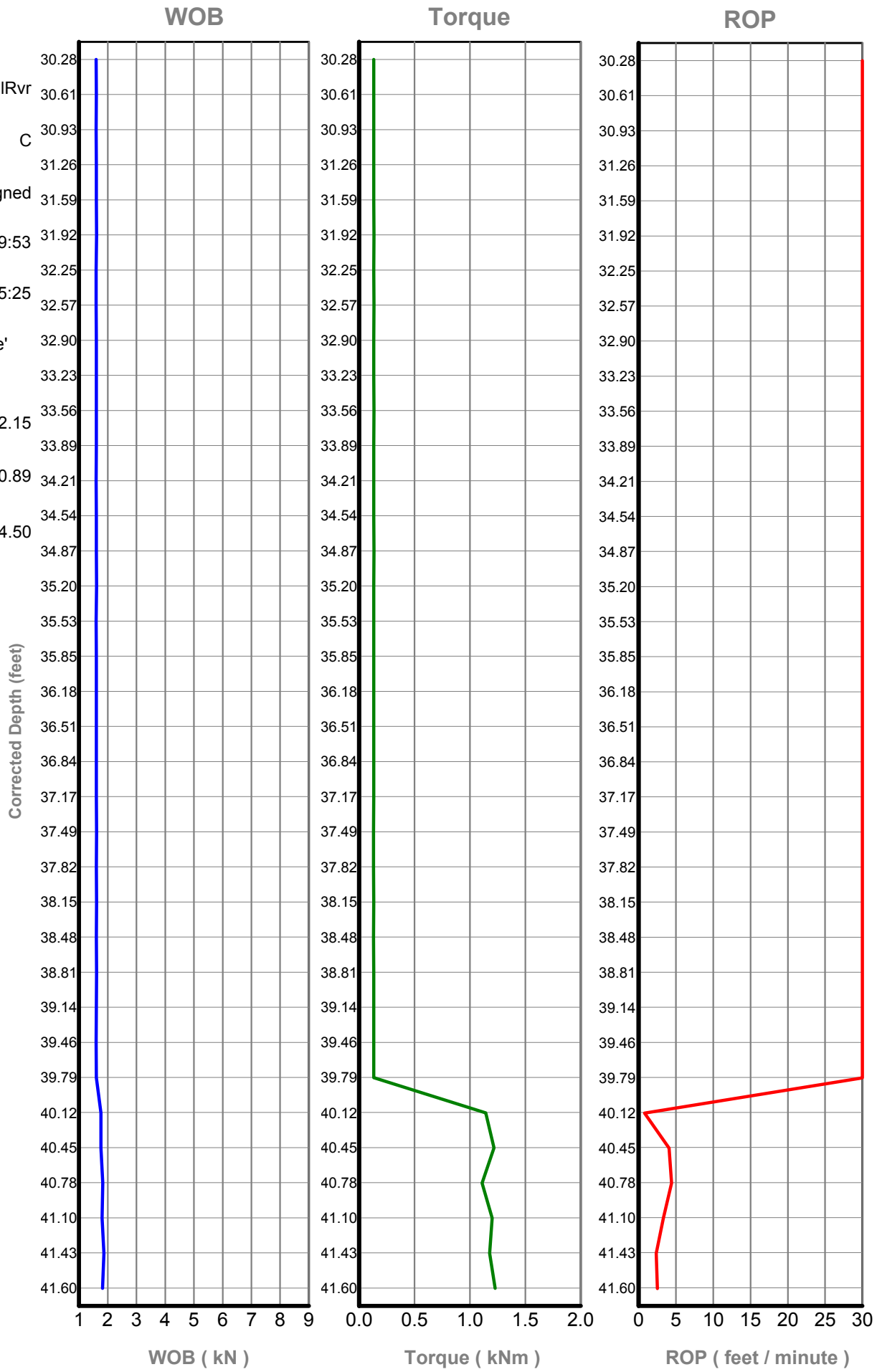
**End Date:**
4/18/2015 23:05:25

**Operator Note:**
'4.5 4.1 c Auto Complete'

**Northing:**
369,912.15

**Easting:**
255,400.89

**Tide (feet):**
4.50



## Hole: D31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:01:39 | 33.79 | 30.09 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:01:39 | 34.12 | 30.42 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:01:39 | 34.45 | 30.75 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:01:40 | 34.78 | 31.08 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:01:40 | 35.11 | 31.41 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:01:40 | 35.43 | 31.73 | 1,080 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:01:41 | 35.76 | 32.06 | 1,080 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:01:41 | 36.09 | 32.39 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:01:41 | 36.42 | 32.72 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:01:42 | 36.75 | 33.05 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:01:42 | 37.07 | 33.37 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:01:42 | 37.40 | 33.70 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:01:43 | 37.73 | 34.03 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:01:43 | 38.06 | 34.36 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:01:44 | 38.39 | 34.69 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:01:44 | 38.71 | 35.01 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:01:44 | 39.04 | 35.34 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:01:45 | 39.37 | 35.67 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:01:45 | 39.70 | 36.00 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:01:45 | 40.03 | 36.33 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:01:46 | 40.35 | 36.65 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:01:46 | 40.68 | 36.98 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:01:46 | 41.01 | 37.31 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:01:47 | 41.34 | 37.64 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:01:47 | 41.67 | 37.97 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:01:47 | 41.99 | 38.29 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 16:01:48 | 42.32 | 38.62 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 16:01:55 | 42.65 | 38.95 | 12 | 0.24 | 0.37 | 0.6 |
| 4/18/2015 16:02:06 | 42.98 | 39.28 | 82 | 0.24 | 0.37 | 4.5 |
| 4/18/2015 16:02:10 | 43.31 | 39.61 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 16:02:17 | 43.64 | 39.94 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 16:02:23 | 43.96 | 40.26 | 67 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 16:02:29 | 44.29 | 40.59 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 16:02:33 | 44.48 | 40.78 | 55 | 0.24 | 0.37 | 3.0 |

## D31 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:59:51

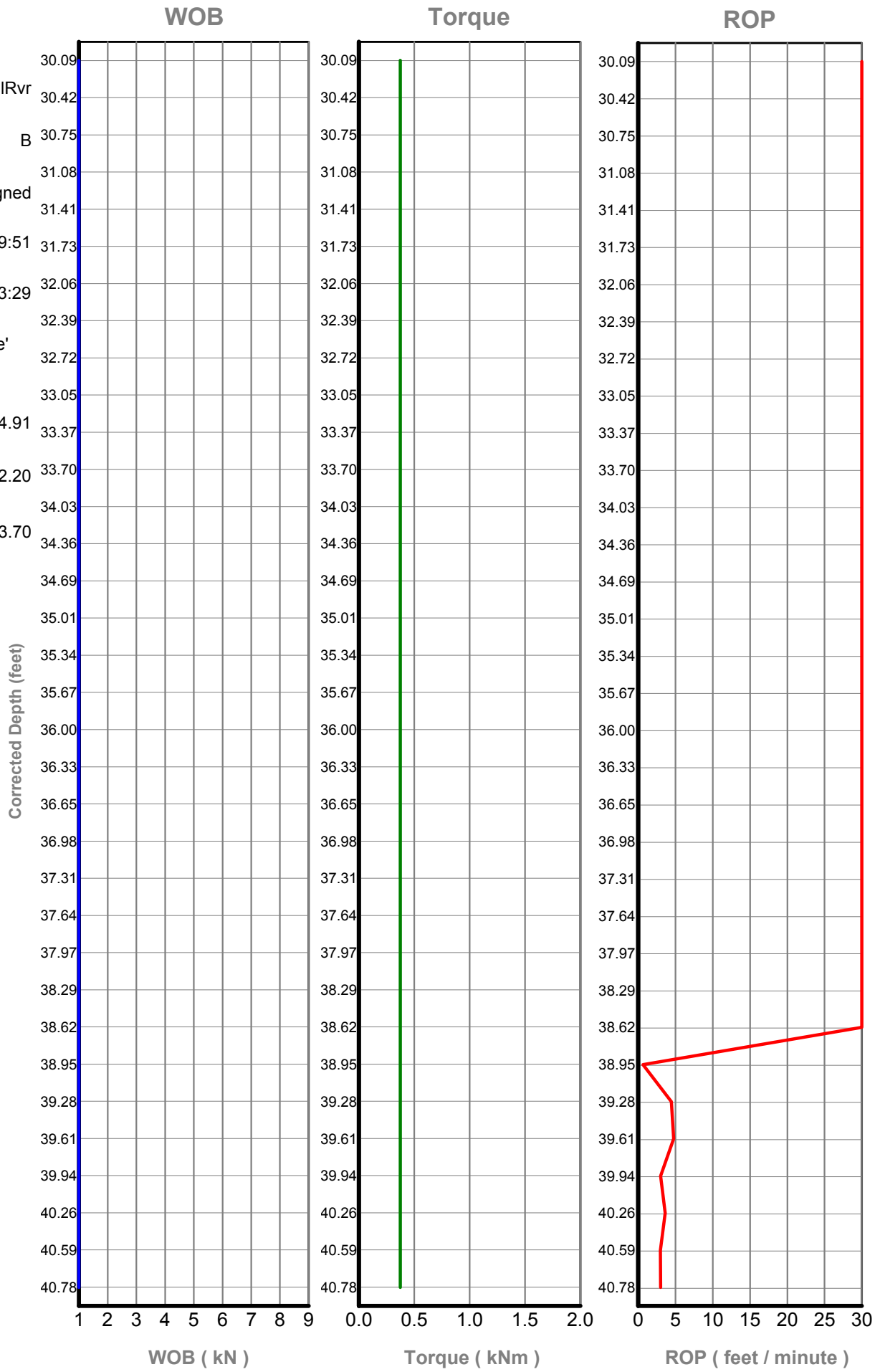
**End Date:**
4/18/2015 16:03:29

**Operator Note:**
'3.7 3.9 b Auto Complete'

**Northing:**
369,954.91

**Easting:**
255,482.20

**Tide (feet):**
3.70



## Hole: D32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:56:45 | 34.12 | 30.32 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:56:46 | 34.45 | 30.65 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 15:56:46 | 34.78 | 30.98 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 15:56:46 | 35.11 | 31.31 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 15:56:47 | 35.43 | 31.63 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 15:56:47 | 35.76 | 31.96 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:56:47 | 36.09 | 32.29 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:56:47 | 36.42 | 32.62 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:56:48 | 36.75 | 32.95 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:48 | 37.07 | 33.27 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:48 | 37.40 | 33.60 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:56:49 | 37.73 | 33.93 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:49 | 38.06 | 34.26 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:49 | 38.39 | 34.59 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:56:50 | 38.71 | 34.91 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:56:50 | 39.04 | 35.24 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:56:50 | 39.37 | 35.57 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:56:51 | 39.70 | 35.90 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:51 | 40.03 | 36.23 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:56:51 | 40.35 | 36.55 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:56:52 | 40.68 | 36.88 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 15:56:52 | 41.01 | 37.21 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 15:56:53 | 41.34 | 37.54 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 15:56:53 | 41.67 | 37.87 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 15:56:53 | 41.99 | 38.19 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 15:56:59 | 42.32 | 38.52 | 76 | 0.24 | 0.37 | 4.2 |
| 4/18/2015 15:57:04 | 42.65 | 38.85 | 32 | 0.24 | 0.37 | 1.8 |
| 4/18/2015 15:57:08 | 42.98 | 39.18 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 15:57:12 | 43.31 | 39.51 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 15:57:17 | 43.64 | 39.84 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:57:22 | 43.96 | 40.16 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 15:57:27 | 44.29 | 40.49 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 15:57:32 | 44.62 | 40.82 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:57:36 | 44.95 | 41.15 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:57:43 | 45.28 | 41.48 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 15:57:49 | 45.60 | 41.80 | 52 | 0.24 | 0.37 | 2.9 |
| 4/18/2015 15:57:57 | 45.93 | 42.13 | 49 | 0.24 | 0.37 | 2.7 |
| 4/18/2015 15:57:59 | 46.07 | 42.27 | 55 | 0.24 | 0.37 | 3.0 |

## D32 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:54:47

**End Date:**
4/18/2015 15:58:56

**Operator Note:**
'3.8 Auto Complete'

**Northing:**
369,974.23

**Easting:**
255,537.69

**Tide (feet):**
3.80



## Hole: D33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:57:29 | 34.12 | 30.32 | 687 | 1.54 | 0.27 | 37.6 |
| 4/18/2015 15:57:30 | 34.45 | 30.65 | 699 | 1.55 | 0.26 | 38.2 |
| 4/18/2015 15:57:30 | 34.78 | 30.98 | 692 | 1.54 | 0.26 | 37.8 |
| 4/18/2015 15:57:31 | 35.11 | 31.31 | 696 | 1.55 | 0.26 | 38.1 |
| 4/18/2015 15:57:31 | 35.43 | 31.63 | 685 | 1.55 | 0.26 | 37.5 |
| 4/18/2015 15:57:32 | 35.76 | 31.96 | 696 | 1.55 | 0.26 | 38.1 |
| 4/18/2015 15:57:32 | 36.09 | 32.29 | 681 | 1.55 | 0.27 | 37.3 |
| 4/18/2015 15:57:33 | 36.42 | 32.62 | 688 | 1.54 | 0.26 | 37.6 |
| 4/18/2015 15:57:33 | 36.75 | 32.95 | 681 | 1.55 | 0.19 | 37.3 |
| 4/18/2015 15:57:34 | 37.07 | 33.27 | 695 | 1.55 | 0.26 | 38.0 |
| 4/18/2015 15:57:34 | 37.40 | 33.60 | 688 | 1.55 | 0.26 | 37.6 |
| 4/18/2015 15:57:35 | 37.73 | 33.93 | 695 | 1.55 | 0.26 | 38.0 |
| 4/18/2015 15:57:35 | 38.06 | 34.26 | 691 | 1.54 | 0.26 | 37.8 |
| 4/18/2015 15:57:36 | 38.39 | 34.59 | 691 | 1.54 | 0.26 | 37.8 |
| 4/18/2015 15:57:37 | 38.71 | 34.91 | 688 | 1.55 | 0.26 | 37.6 |
| 4/18/2015 15:57:37 | 39.04 | 35.24 | 688 | 1.54 | 0.26 | 37.6 |
| 4/18/2015 15:57:38 | 39.37 | 35.57 | 684 | 1.55 | 0.26 | 37.4 |
| 4/18/2015 15:57:38 | 39.70 | 35.90 | 688 | 1.55 | 0.26 | 37.6 |
| 4/18/2015 15:57:39 | 40.03 | 36.23 | 688 | 1.55 | 0.26 | 37.6 |
| 4/18/2015 15:57:39 | 40.35 | 36.55 | 685 | 1.55 | 0.26 | 37.5 |
| 4/18/2015 15:57:40 | 40.68 | 36.88 | 688 | 1.55 | 0.26 | 37.6 |
| 4/18/2015 15:57:40 | 41.01 | 37.21 | 685 | 1.55 | 0.26 | 37.5 |
| 4/18/2015 15:57:41 | 41.34 | 37.54 | 682 | 1.55 | 0.26 | 37.3 |
| 4/18/2015 15:57:41 | 41.67 | 37.87 | 685 | 1.55 | 0.27 | 37.5 |
| 4/18/2015 15:57:42 | 41.99 | 38.19 | 681 | 1.55 | 0.26 | 37.2 |
| 4/18/2015 15:57:42 | 42.32 | 38.52 | 685 | 1.55 | 0.26 | 37.5 |
| 4/18/2015 15:57:43 | 42.65 | 38.85 | 682 | 1.55 | 0.27 | 37.3 |
| 4/18/2015 15:57:43 | 42.98 | 39.18 | 682 | 1.54 | 0.26 | 37.3 |
| 4/18/2015 15:57:44 | 43.31 | 39.51 | 679 | 1.59 | 0.27 | 37.2 |
| 4/18/2015 15:58:14 | 43.64 | 39.84 | 79 | 1.66 | 0.96 | 4.3 |
| 4/18/2015 15:58:15 | 43.96 | 40.16 | 198 | 1.66 | 1.21 | 10.8 |
| 4/18/2015 15:58:16 | 44.29 | 40.49 | 324 | 1.71 | 1.10 | 17.7 |
| 4/18/2015 15:58:20 | 44.62 | 40.82 | 35 | 1.76 | 1.14 | 1.9 |
| 4/18/2015 15:58:22 | 44.95 | 41.15 | 176 | 1.75 | 1.06 | 9.6 |
| 4/18/2015 15:58:26 | 45.28 | 41.48 | 87 | 1.79 | 1.14 | 4.7 |
| 4/18/2015 15:58:32 | 45.60 | 41.80 | 64 | 1.78 | 1.17 | 3.5 |
| 4/18/2015 15:58:40 | 45.93 | 42.13 | 49 | 1.79 | 1.09 | 2.7 |
| 4/18/2015 15:58:47 | 46.26 | 42.46 | 38 | 1.78 | 1.04 | 2.1 |
| 4/18/2015 15:58:55 | 46.59 | 42.79 | 52 | 1.79 | 1.10 | 2.8 |
| 4/18/2015 15:59:06 | 46.92 | 43.12 | 32 | 1.76 | 1.16 | 1.7 |

## D33 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:56:03

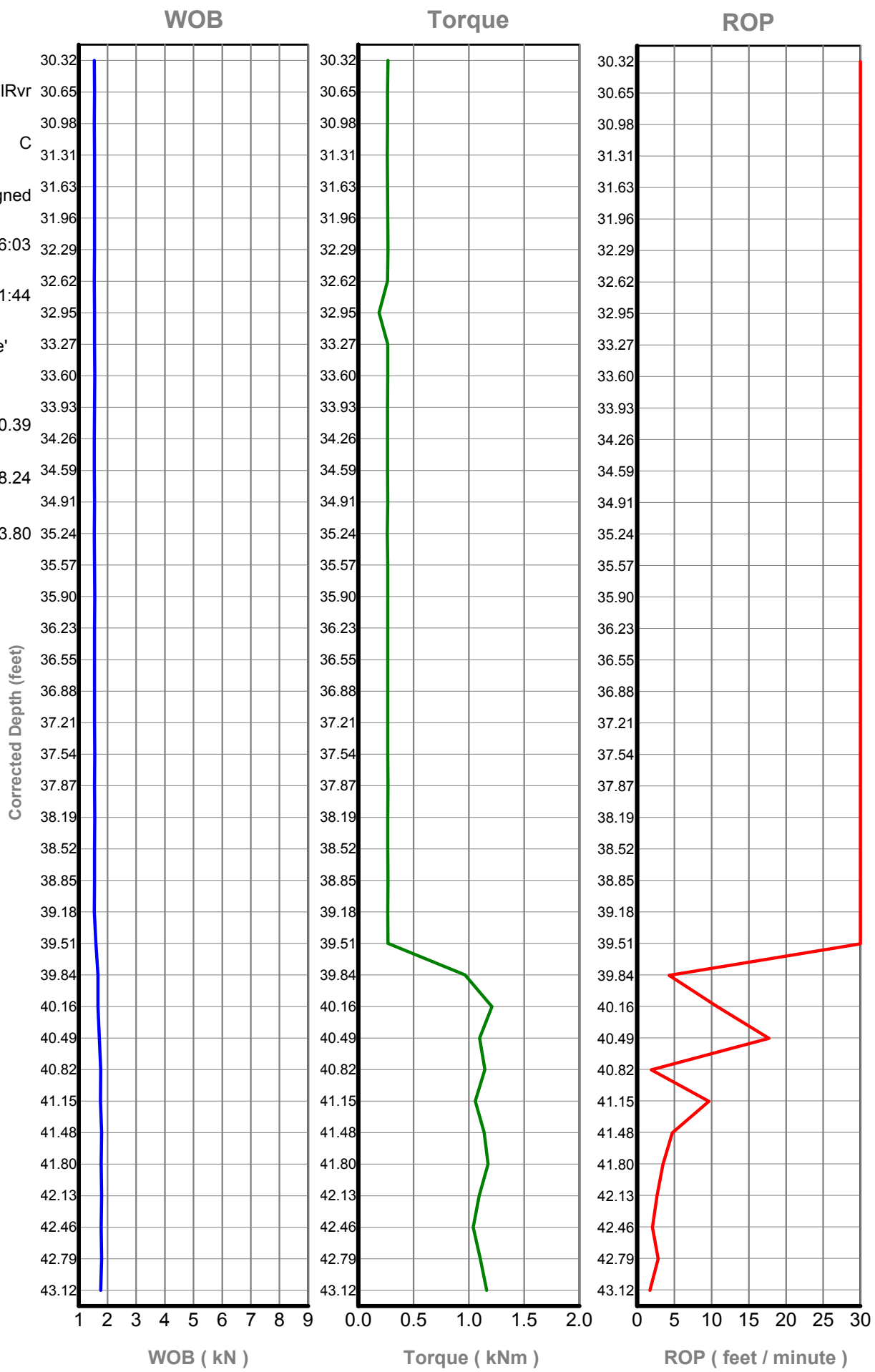
**End Date:**
4/18/2015 16:01:44

**Operator Note:**
'3.8 3.9 c Auto Complete'

**Northing:**
370,000.39

**Easting:**
255,608.24

**Tide (feet):**
3.80



## Hole: D34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:25:13 | 30.18 | 30.18 | 1,049 | 0.30 | 0.34 | 57.4 |
| 4/18/2015 8:25:13 | 30.51 | 30.51 | 1,032 | 0.30 | 0.34 | 56.4 |
| 4/18/2015 8:25:13 | 30.84 | 30.84 | 1,032 | 0.30 | 0.34 | 56.4 |
| 4/18/2015 8:25:13 | 31.17 | 31.17 | 1,032 | 0.30 | 0.33 | 56.4 |
| 4/18/2015 8:25:14 | 31.50 | 31.50 | 1,039 | 0.30 | 0.34 | 56.8 |
| 4/18/2015 8:25:14 | 31.82 | 31.82 | 1,039 | 0.30 | 0.34 | 56.8 |
| 4/18/2015 8:25:14 | 32.15 | 32.15 | 1,041 | 0.30 | 0.33 | 56.9 |
| 4/18/2015 8:25:15 | 32.48 | 32.48 | 1,041 | 0.30 | 0.33 | 56.9 |
| 4/18/2015 8:25:15 | 32.81 | 32.81 | 1,041 | 0.30 | 0.33 | 56.9 |
| 4/18/2015 8:25:15 | 33.14 | 33.14 | 1,042 | 0.29 | 0.34 | 57.0 |
| 4/18/2015 8:25:16 | 33.46 | 33.46 | 1,056 | 0.30 | 0.33 | 57.7 |
| 4/18/2015 8:25:16 | 33.79 | 33.79 | 1,056 | 0.30 | 0.33 | 57.7 |
| 4/18/2015 8:25:16 | 34.12 | 34.12 | 1,046 | 0.30 | 0.34 | 57.2 |
| 4/18/2015 8:25:17 | 34.45 | 34.45 | 1,041 | 0.30 | 0.34 | 56.9 |
| 4/18/2015 8:25:18 | 34.78 | 34.78 | 1,041 | 0.30 | 0.34 | 56.9 |
| 4/18/2015 8:25:18 | 35.11 | 35.11 | 1,038 | 0.30 | 0.34 | 56.7 |
| 4/18/2015 8:25:18 | 35.43 | 35.43 | 1,026 | 0.30 | 0.34 | 56.1 |
| 4/18/2015 8:25:19 | 35.76 | 35.76 | 1,026 | 0.30 | 0.34 | 56.1 |
| 4/18/2015 8:25:19 | 36.09 | 36.09 | 1,035 | 0.30 | 0.33 | 56.6 |
| 4/18/2015 8:25:19 | 36.42 | 36.42 | 1,035 | 0.30 | 0.33 | 56.6 |
| 4/18/2015 8:25:20 | 36.75 | 36.75 | 1,035 | 0.30 | 0.33 | 56.6 |
| 4/18/2015 8:25:20 | 37.07 | 37.07 | 1,035 | 0.30 | 0.33 | 56.6 |
| 4/18/2015 8:25:20 | 37.40 | 37.40 | 1,038 | 0.30 | 0.33 | 56.8 |
| 4/18/2015 8:25:21 | 37.73 | 37.73 | 1,038 | 0.30 | 0.33 | 56.8 |
| 4/18/2015 8:25:21 | 38.06 | 38.06 | 1,047 | 0.30 | 0.34 | 57.3 |
| 4/18/2015 8:25:21 | 38.39 | 38.39 | 1,038 | 0.30 | 0.33 | 56.7 |
| 4/18/2015 8:25:22 | 38.71 | 38.71 | 1,038 | 0.30 | 0.33 | 56.7 |
| 4/18/2015 8:25:36 | 39.04 | 39.04 | 3 | 3.38 | 0.40 | 0.2 |
| 4/18/2015 8:25:43 | 39.37 | 39.37 | 55 | 3.42 | 0.42 | 3.0 |
| 4/18/2015 8:25:50 | 39.70 | 39.70 | 43 | 3.44 | 0.43 | 2.4 |
| 4/18/2015 8:25:56 | 40.03 | 40.03 | 55 | 3.23 | 0.42 | 3.0 |
| 4/18/2015 8:26:04 | 40.35 | 40.35 | 46 | 4.22 | 0.42 | 2.5 |
| 4/18/2015 8:26:06 | 40.52 | 40.52 | 57 | 3.50 | 0.41 | 3.1 |

## D34 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:23:21

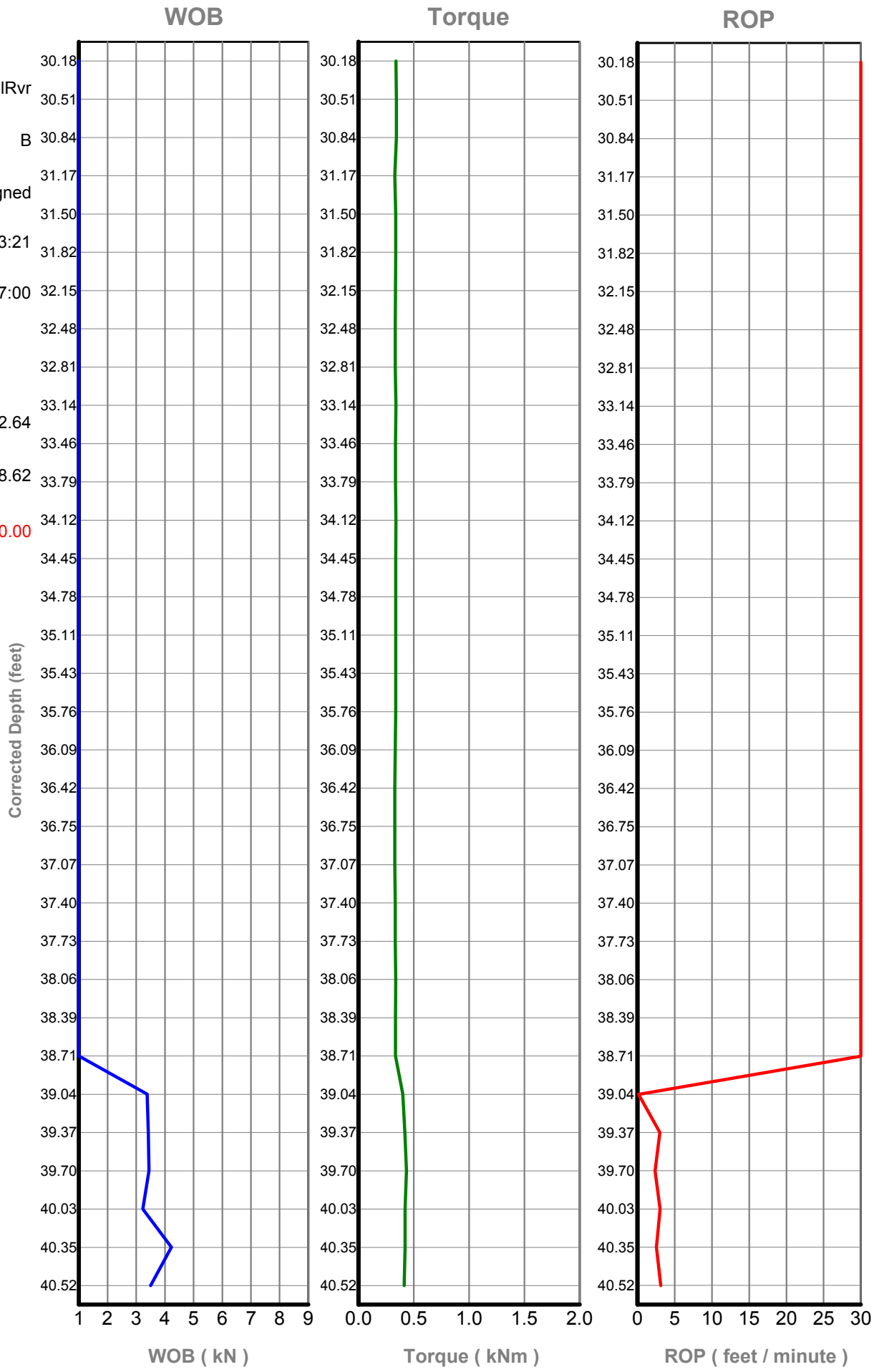
**End Date:**
4/18/2015 8:27:00

**Operator Note:**
'0 0.2 b Auto Complete'

**Northing:**
370,042.64

**Easting:**
255,678.62

**Tide (feet):**
0.00



## Hole: D35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:29:35 | 30.18 | 30.18 | 1,078 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 8:29:36 | 30.51 | 30.51 | 1,078 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 8:29:36 | 30.84 | 30.84 | 1,084 | 0.30 | 0.33 | 59.3 |
| 4/18/2015 8:29:36 | 31.17 | 31.17 | 1,081 | 0.31 | 0.32 | 59.1 |
| 4/18/2015 8:29:37 | 31.50 | 31.50 | 1,081 | 0.31 | 0.32 | 59.1 |
| 4/18/2015 8:29:37 | 31.82 | 31.82 | 1,084 | 0.30 | 0.33 | 59.3 |
| 4/18/2015 8:29:37 | 32.15 | 32.15 | 1,081 | 0.30 | 0.33 | 59.1 |
| 4/18/2015 8:29:38 | 32.48 | 32.48 | 1,081 | 0.30 | 0.33 | 59.1 |
| 4/18/2015 8:29:38 | 32.81 | 32.81 | 1,087 | 0.30 | 0.33 | 59.4 |
| 4/18/2015 8:29:39 | 33.14 | 33.14 | 1,087 | 0.30 | 0.33 | 59.4 |
| 4/18/2015 8:29:39 | 33.46 | 33.46 | 1,081 | 0.30 | 0.33 | 59.1 |
| 4/18/2015 8:29:39 | 33.79 | 33.79 | 1,081 | 0.30 | 0.32 | 59.1 |
| 4/18/2015 8:29:40 | 34.12 | 34.12 | 1,081 | 0.30 | 0.32 | 59.1 |
| 4/18/2015 8:29:40 | 34.45 | 34.45 | 1,075 | 0.30 | 0.33 | 58.8 |
| 4/18/2015 8:29:40 | 34.78 | 34.78 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/18/2015 8:29:41 | 35.11 | 35.11 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/18/2015 8:29:41 | 35.43 | 35.43 | 1,060 | 0.30 | 0.33 | 58.0 |
| 4/18/2015 8:29:41 | 35.76 | 35.76 | 1,069 | 0.30 | 0.33 | 58.5 |
| 4/18/2015 8:29:42 | 36.09 | 36.09 | 1,069 | 0.30 | 0.33 | 58.5 |
| 4/18/2015 8:29:42 | 36.42 | 36.42 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/18/2015 8:29:42 | 36.75 | 36.75 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/18/2015 8:29:42 | 37.07 | 37.07 | 1,067 | 0.30 | 0.34 | 58.3 |
| 4/18/2015 8:29:43 | 37.40 | 37.40 | 1,067 | 0.30 | 0.34 | 58.3 |
| 4/18/2015 8:29:43 | 37.73 | 37.73 | 1,067 | 0.30 | 0.34 | 58.3 |
| 4/18/2015 8:29:43 | 38.06 | 38.06 | 1,067 | 0.30 | 0.33 | 58.3 |
| 4/18/2015 8:29:44 | 38.39 | 38.39 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/18/2015 8:29:44 | 38.71 | 38.71 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/18/2015 8:29:44 | 39.04 | 39.04 | 1,067 | 0.30 | 0.34 | 58.3 |
| 4/18/2015 8:29:45 | 39.37 | 39.37 | 1,060 | 0.30 | 0.33 | 58.0 |
| 4/18/2015 8:29:45 | 39.70 | 39.70 | 1,060 | 0.30 | 0.33 | 58.0 |
| 4/18/2015 8:29:45 | 40.03 | 40.03 | 1,067 | 0.29 | 0.34 | 58.3 |
| 4/18/2015 8:29:53 | 40.35 | 40.35 | 34 | 5.04 | 0.43 | 1.9 |
| 4/18/2015 8:29:59 | 40.68 | 40.68 | 46 | 6.90 | 0.39 | 2.5 |
| 4/18/2015 8:30:04 | 41.01 | 41.01 | 40 | 3.50 | 0.42 | 2.2 |
| 4/18/2015 8:30:14 | 41.34 | 41.34 | 34 | 3.07 | 0.42 | 1.8 |
| 4/18/2015 8:30:22 | 41.67 | 41.67 | 39 | 3.62 | 0.40 | 2.1 |
| 4/18/2015 8:30:29 | 41.99 | 41.99 | 48 | 3.78 | 0.40 | 2.6 |
| 4/18/2015 8:30:35 | 42.32 | 42.32 | 52 | 3.78 | 0.41 | 2.9 |

## D35 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:27:48

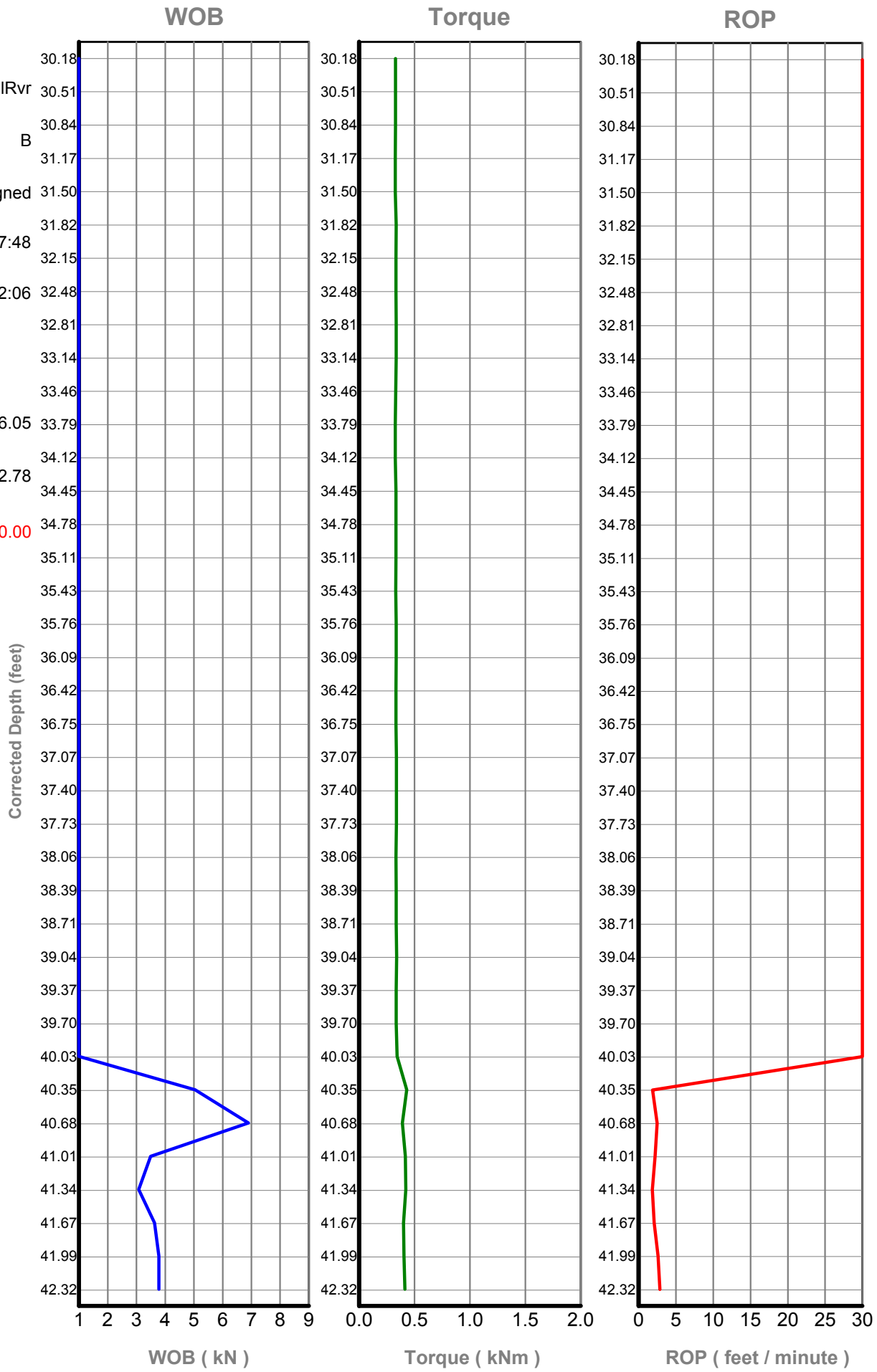
**End Date:**
4/18/2015 8:32:06

**Operator Note:**
'0 0.2 b Rock@ 41"

**Northing:**
370,066.05

**Easting:**
255,732.78

**Tide (feet):**
0.00



## Hole: D36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:26:51 | 30.18 | 30.18 | 601 | 2.14 | 0.27 | 32.9 |
| 4/18/2015 8:26:52 | 30.51 | 30.51 | 601 | 2.13 | 0.27 | 32.9 |
| 4/18/2015 8:26:53 | 30.84 | 30.84 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:26:53 | 31.17 | 31.17 | 605 | 2.12 | 0.27 | 33.1 |
| 4/18/2015 8:26:54 | 31.50 | 31.50 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:26:54 | 31.82 | 31.82 | 602 | 2.14 | 0.27 | 32.9 |
| 4/18/2015 8:26:55 | 32.15 | 32.15 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:26:56 | 32.48 | 32.48 | 601 | 2.12 | 0.27 | 32.9 |
| 4/18/2015 8:26:56 | 32.81 | 32.81 | 601 | 2.13 | 0.27 | 32.9 |
| 4/18/2015 8:26:57 | 33.14 | 33.14 | 598 | 2.13 | 0.26 | 32.7 |
| 4/18/2015 8:26:58 | 33.46 | 33.46 | 604 | 2.13 | 0.27 | 33.0 |
| 4/18/2015 8:26:58 | 33.79 | 33.79 | 601 | 2.12 | 0.27 | 32.9 |
| 4/18/2015 8:26:59 | 34.12 | 34.12 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:26:59 | 34.45 | 34.45 | 601 | 2.12 | 0.27 | 32.9 |
| 4/18/2015 8:27:00 | 34.78 | 34.78 | 601 | 2.10 | 0.26 | 32.9 |
| 4/18/2015 8:27:00 | 35.11 | 35.11 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:27:01 | 35.43 | 35.43 | 595 | 2.13 | 0.27 | 32.5 |
| 4/18/2015 8:27:02 | 35.76 | 35.76 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:27:02 | 36.09 | 36.09 | 596 | 2.14 | 0.27 | 32.6 |
| 4/18/2015 8:27:03 | 36.42 | 36.42 | 596 | 2.13 | 0.27 | 32.6 |
| 4/18/2015 8:27:03 | 36.75 | 36.75 | 598 | 2.12 | 0.27 | 32.7 |
| 4/18/2015 8:27:04 | 37.07 | 37.07 | 601 | 2.13 | 0.27 | 32.9 |
| 4/18/2015 8:27:04 | 37.40 | 37.40 | 598 | 2.13 | 0.27 | 32.7 |
| 4/18/2015 8:27:05 | 37.73 | 37.73 | 598 | 2.14 | 0.27 | 32.7 |
| 4/18/2015 8:27:06 | 38.06 | 38.06 | 601 | 2.14 | 0.27 | 32.9 |
| 4/18/2015 8:27:07 | 38.39 | 38.39 | 598 | 2.12 | 0.27 | 32.7 |
| 4/18/2015 8:27:07 | 38.71 | 38.71 | 598 | 2.14 | 0.27 | 32.7 |
| 4/18/2015 8:27:08 | 39.04 | 39.04 | 598 | 2.14 | 0.27 | 32.7 |
| 4/18/2015 8:27:08 | 39.37 | 39.37 | 601 | 2.14 | 0.27 | 32.9 |
| 4/18/2015 8:27:09 | 39.70 | 39.70 | 598 | 2.14 | 0.27 | 32.7 |
| 4/18/2015 8:27:10 | 40.03 | 40.03 | 595 | 2.14 | 0.26 | 32.5 |
| 4/18/2015 8:27:10 | 40.35 | 40.35 | 595 | 2.14 | 0.26 | 32.5 |
| 4/18/2015 8:27:11 | 40.68 | 40.68 | 595 | 2.14 | 0.27 | 32.6 |
| 4/18/2015 8:27:11 | 41.01 | 41.01 | 598 | 2.13 | 0.26 | 32.7 |
| 4/18/2015 8:27:12 | 41.34 | 41.34 | 598 | 2.09 | 0.27 | 32.7 |
| 4/18/2015 8:27:12 | 41.67 | 41.67 | 598 | 2.14 | 0.26 | 32.7 |
| 4/18/2015 8:27:13 | 41.99 | 41.99 | 598 | 2.14 | 0.26 | 32.7 |
| 4/18/2015 8:27:14 | 42.32 | 42.32 | 592 | 2.14 | 0.27 | 32.4 |
| 4/18/2015 8:27:14 | 42.65 | 42.65 | 596 | 2.13 | 0.27 | 32.6 |
| 4/18/2015 8:27:15 | 42.98 | 42.98 | 598 | 2.13 | 0.26 | 32.7 |
| 4/18/2015 8:27:15 | 43.31 | 43.31 | 595 | 2.14 | 0.26 | 32.6 |
| 4/18/2015 8:27:16 | 43.64 | 43.64 | 595 | 1.91 | 0.26 | 32.6 |
| 4/18/2015 8:27:17 | 43.96 | 43.96 | 590 | 2.14 | 0.26 | 32.2 |
| 4/18/2015 8:27:18 | 44.29 | 44.29 | 578 | 2.18 | 0.26 | 31.6 |
| 4/18/2015 8:27:48 | 44.62 | 44.62 | 7 | 2.29 | 0.94 | 0.4 |
| 4/18/2015 8:27:50 | 44.95 | 44.95 | 130 | 2.30 | 1.07 | 7.1 |
| 4/18/2015 8:27:54 | 45.28 | 45.28 | 58 | 2.36 | 1.20 | 3.1 |
| 4/18/2015 8:28:02 | 45.60 | 45.60 | 53 | 2.35 | 1.33 | 2.9 |
| 4/18/2015 8:28:06 | 45.93 | 45.93 | 83 | 2.33 | 1.28 | 4.6 |
| 4/18/2015 8:28:13 | 46.26 | 46.26 | 46 | 2.36 | 1.30 | 2.5 |
| 4/18/2015 8:28:23 | 46.59 | 46.59 | 45 | 2.36 | 1.29 | 2.4 |
| 4/18/2015 8:28:31 | 46.92 | 46.92 | 55 | 2.36 | 1.19 | 3.0 |
| 4/18/2015 8:28:36 | 47.14 | 47.14 | 42 | 2.33 | 1.23 | 2.3 |

## D36 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:25:22

**End Date:**
4/18/2015 8:29:29

**Operator Note:**
'0 ,2 c Auto Complete'

**Northing:**
370,094.82

**Easting:**
255,801.62

**Tide (feet):**
0.00



## Hole: D37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:18:37 | 34.12 | 30.02 | 1,048 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 4:18:37 | 34.45 | 30.35 | 1,048 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 4:18:38 | 34.78 | 30.68 | 1,048 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 4:18:38 | 35.11 | 31.01 | 1,039 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 4:18:38 | 35.43 | 31.33 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/19/2015 4:18:39 | 35.76 | 31.66 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/19/2015 4:18:39 | 36.09 | 31.99 | 1,051 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 4:18:39 | 36.42 | 32.32 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 4:18:40 | 36.75 | 32.65 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 4:18:40 | 37.07 | 32.97 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 4:18:41 | 37.40 | 33.30 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:18:41 | 37.73 | 33.63 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:18:41 | 38.06 | 33.96 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 4:18:42 | 38.39 | 34.29 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:42 | 38.71 | 34.61 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:42 | 39.04 | 34.94 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/19/2015 4:18:43 | 39.37 | 35.27 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:43 | 39.70 | 35.60 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:43 | 40.03 | 35.93 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:44 | 40.35 | 36.25 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:18:44 | 40.68 | 36.58 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:18:44 | 41.01 | 36.91 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 4:18:45 | 41.34 | 37.24 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:45 | 41.67 | 37.57 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:45 | 41.99 | 37.89 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 4:18:46 | 42.32 | 38.22 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/19/2015 4:18:46 | 42.65 | 38.55 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/19/2015 4:18:46 | 42.98 | 38.88 | 1,018 | 0.24 | 0.37 | 55.6 |
| 4/19/2015 4:18:47 | 43.31 | 39.21 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/19/2015 4:18:47 | 43.64 | 39.54 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/19/2015 4:18:48 | 43.96 | 39.86 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/19/2015 4:18:48 | 44.29 | 40.19 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 4:18:48 | 44.62 | 40.52 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 4:18:49 | 44.95 | 40.85 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 4:18:49 | 45.28 | 41.18 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:49 | 45.60 | 41.50 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:50 | 45.93 | 41.83 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:50 | 46.26 | 42.16 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 4:18:50 | 46.59 | 42.49 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:51 | 46.92 | 42.82 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:51 | 47.24 | 43.14 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:52 | 47.57 | 43.47 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:52 | 47.90 | 43.80 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:52 | 48.23 | 44.13 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 4:18:53 | 48.56 | 44.46 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:53 | 48.88 | 44.78 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:53 | 49.21 | 45.11 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 4:18:54 | 49.54 | 45.44 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:54 | 49.87 | 45.77 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 4:18:54 | 50.20 | 46.10 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 4:18:55 | 50.53 | 46.43 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 4:18:55 | 50.85 | 46.75 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 4:18:55 | 51.18 | 47.08 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 4:18:56 | 51.51 | 47.41 | 836 | 0.24 | 0.37 | 45.7 |
| 4/19/2015 4:20:25 | 51.84 | 47.74 | 88 | 0.24 | 0.37 | 4.8 |
| 4/19/2015 4:20:25 | 52.17 | 48.07 | 245 | 0.24 | 0.37 | 13.4 |
| 4/19/2015 4:20:26 | 52.49 | 48.39 | 245 | 0.24 | 0.37 | 13.4 |
| 4/19/2015 4:20:26 | 52.82 | 48.72 | 422 | 0.24 | 0.37 | 23.1 |
| 4/19/2015 4:20:27 | 53.15 | 49.05 | 587 | 0.24 | 0.37 | 32.1 |
| 4/19/2015 4:20:27 | 53.48 | 49.38 | 758 | 0.24 | 0.37 | 41.5 |
| 4/19/2015 4:20:28 | 53.81 | 49.71 | 843 | 0.24 | 0.37 | 46.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 4:20:28 | 54.13 | 50.03 | 852 | 0.24 | 0.37 | 46.6 |
| 4/19/2015 | 4:20:29 | 54.46 | 50.36 | 852 | 0.24 | 0.37 | 46.6 |
| 4/19/2015 | 4:20:29 | 54.79 | 50.69 | 849 | 0.24 | 0.37 | 46.4 |
| 4/19/2015 | 4:20:29 | 55.12 | 51.02 | 846 | 0.24 | 0.37 | 46.3 |
| 4/19/2015 | 4:20:30 | 55.45 | 51.35 | 841 | 0.24 | 0.37 | 46.0 |
| 4/19/2015 | 4:20:30 | 55.77 | 51.67 | 838 | 0.24 | 0.37 | 45.8 |
| 4/19/2015 | 4:20:31 | 56.10 | 52.00 | 838 | 0.24 | 0.37 | 45.8 |
| 4/19/2015 | 4:20:31 | 56.43 | 52.33 | 841 | 0.24 | 0.37 | 46.0 |
| 4/19/2015 | 4:20:31 | 56.76 | 52.66 | 835 | 0.24 | 0.37 | 45.6 |
| 4/19/2015 | 4:20:32 | 57.09 | 52.99 | 832 | 0.24 | 0.37 | 45.5 |
| 4/19/2015 | 4:20:32 | 57.41 | 53.31 | 829 | 0.24 | 0.37 | 45.3 |
| 4/19/2015 | 4:20:33 | 57.74 | 53.64 | 823 | 0.24 | 0.37 | 45.0 |
| 4/19/2015 | 4:20:33 | 58.07 | 53.97 | 823 | 0.24 | 0.37 | 45.0 |
| 4/19/2015 | 4:20:33 | 58.40 | 54.30 | 823 | 0.24 | 0.37 | 45.0 |
| 4/19/2015 | 4:20:35 | 58.73 | 54.63 | 473 | 0.24 | 0.37 | 25.8 |
| 4/19/2015 | 4:20:35 | 59.06 | 54.96 | 443 | 0.24 | 0.37 | 24.2 |
| 4/19/2015 | 4:20:36 | 59.38 | 55.28 | 440 | 0.24 | 0.37 | 24.1 |
| 4/19/2015 | 4:20:38 | 59.49 | 55.39 | 449 | 0.24 | 0.37 | 24.5 |

## D37 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:13:52

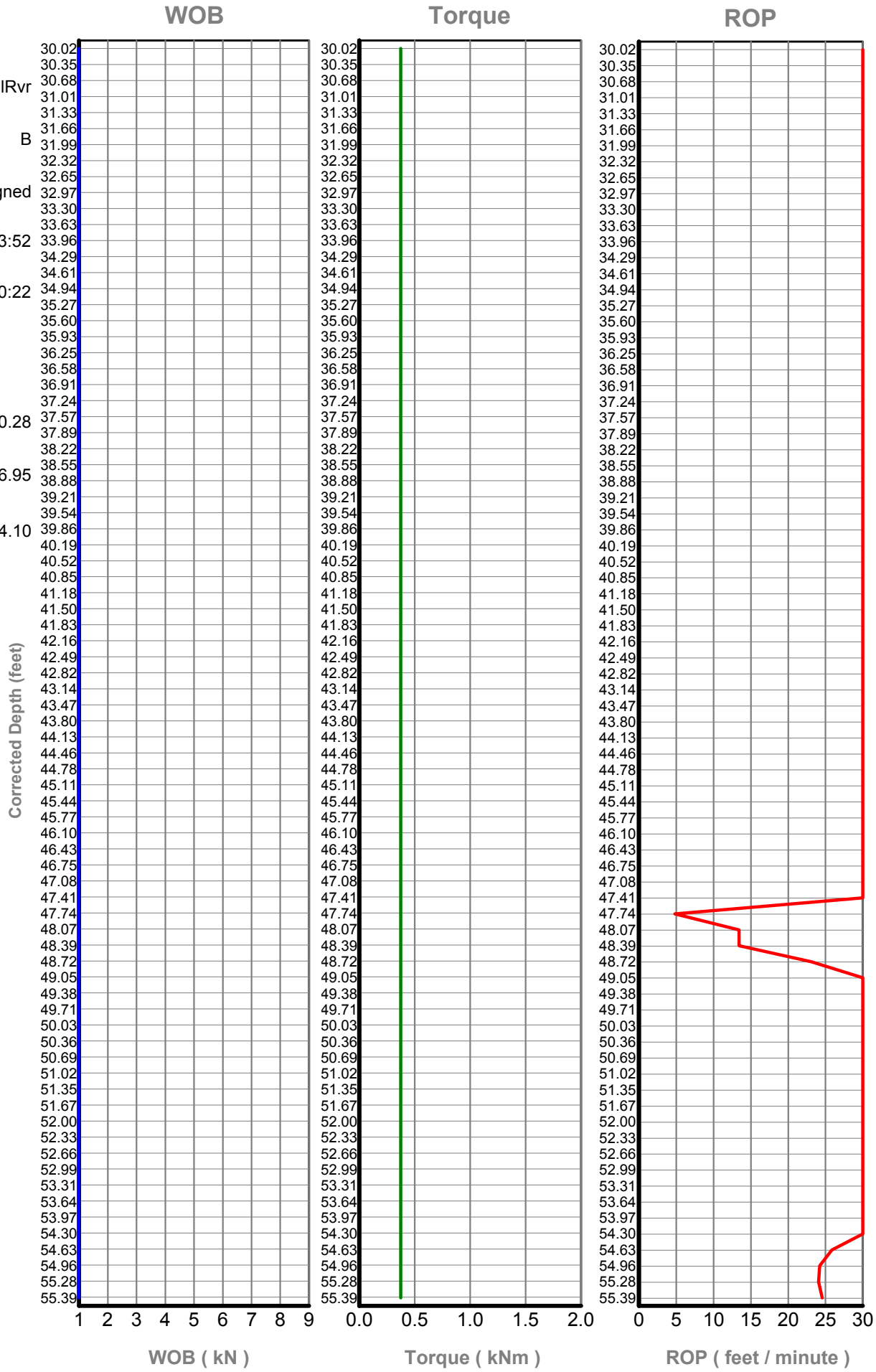
**End Date:**
4/19/2015 4:30:22

**Operator Note:**
'4.1 4.23 b Auto Complete'

**Northing:**
369,680.28

**Easting:**
255,086.95

**Tide (feet):**
4.10



## Hole: D38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:26:06 | 34.12 | 30.22 | 622 | 1.55 | 0.14 | 34.0 |
| 4/19/2015 4:26:07 | 34.45 | 30.55 | 615 | 1.55 | 0.14 | 33.6 |
| 4/19/2015 4:26:07 | 34.78 | 30.88 | 622 | 1.55 | 0.14 | 34.0 |
| 4/19/2015 4:26:08 | 35.11 | 31.21 | 619 | 1.55 | 0.14 | 33.8 |
| 4/19/2015 4:26:08 | 35.43 | 31.53 | 625 | 1.55 | 0.14 | 34.2 |
| 4/19/2015 4:26:09 | 35.76 | 31.86 | 622 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:26:09 | 36.09 | 32.19 | 629 | 1.55 | 0.14 | 34.4 |
| 4/19/2015 4:26:10 | 36.42 | 32.52 | 619 | 1.55 | 0.13 | 33.8 |
| 4/19/2015 4:26:10 | 36.75 | 32.85 | 625 | 1.56 | 0.14 | 34.2 |
| 4/19/2015 4:26:11 | 37.07 | 33.17 | 622 | 1.55 | 0.14 | 34.0 |
| 4/19/2015 4:26:12 | 37.40 | 33.50 | 622 | 1.55 | 0.14 | 34.0 |
| 4/19/2015 4:26:13 | 37.73 | 33.83 | 625 | 1.55 | 0.14 | 34.2 |
| 4/19/2015 4:26:13 | 38.06 | 34.16 | 618 | 1.55 | 0.13 | 33.8 |
| 4/19/2015 4:26:14 | 38.39 | 34.49 | 622 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:26:14 | 38.71 | 34.81 | 618 | 1.56 | 0.14 | 33.8 |
| 4/19/2015 4:26:15 | 39.04 | 35.14 | 628 | 1.55 | 0.14 | 34.3 |
| 4/19/2015 4:26:15 | 39.37 | 35.47 | 612 | 1.55 | 0.13 | 33.5 |
| 4/19/2015 4:26:16 | 39.70 | 35.80 | 612 | 1.55 | 0.13 | 33.5 |
| 4/19/2015 4:26:16 | 40.03 | 36.13 | 619 | 1.55 | 0.14 | 33.9 |
| 4/19/2015 4:26:17 | 40.35 | 36.45 | 619 | 1.53 | 0.13 | 33.8 |
| 4/19/2015 4:26:18 | 40.68 | 36.78 | 613 | 1.55 | 0.13 | 33.5 |
| 4/19/2015 4:26:18 | 41.01 | 37.11 | 616 | 1.55 | 0.13 | 33.7 |
| 4/19/2015 4:26:19 | 41.34 | 37.44 | 611 | 1.57 | 0.13 | 33.4 |
| 4/19/2015 4:26:19 | 41.67 | 37.77 | 611 | 1.57 | 0.13 | 33.4 |
| 4/19/2015 4:26:20 | 41.99 | 38.09 | 616 | 1.55 | 0.13 | 33.7 |
| 4/19/2015 4:26:20 | 42.32 | 38.42 | 613 | 1.55 | 0.13 | 33.5 |
| 4/19/2015 4:26:21 | 42.65 | 38.75 | 616 | 1.56 | 0.13 | 33.7 |
| 4/19/2015 4:26:21 | 42.98 | 39.08 | 629 | 1.57 | 0.13 | 34.4 |
| 4/19/2015 4:26:22 | 43.31 | 39.41 | 626 | 1.57 | 0.13 | 34.2 |
| 4/19/2015 4:26:23 | 43.64 | 39.74 | 615 | 1.56 | 0.13 | 33.6 |
| 4/19/2015 4:26:24 | 43.96 | 40.06 | 619 | 1.57 | 0.14 | 33.8 |
| 4/19/2015 4:26:24 | 44.29 | 40.39 | 619 | 1.57 | 0.13 | 33.8 |
| 4/19/2015 4:26:25 | 44.62 | 40.72 | 619 | 1.56 | 0.13 | 33.8 |
| 4/19/2015 4:26:25 | 44.95 | 41.05 | 621 | 1.57 | 0.13 | 34.0 |
| 4/19/2015 4:26:26 | 45.28 | 41.38 | 619 | 1.55 | 0.14 | 33.8 |
| 4/19/2015 4:26:26 | 45.60 | 41.70 | 619 | 1.55 | 0.14 | 33.8 |
| 4/19/2015 4:26:27 | 45.93 | 42.03 | 612 | 1.55 | 0.13 | 33.5 |
| 4/19/2015 4:26:27 | 46.26 | 42.36 | 619 | 1.57 | 0.13 | 33.8 |
| 4/19/2015 4:26:28 | 46.59 | 42.69 | 616 | 1.55 | 0.13 | 33.7 |
| 4/19/2015 4:26:29 | 46.92 | 43.02 | 619 | 1.56 | 0.13 | 33.8 |
| 4/19/2015 4:26:29 | 47.24 | 43.34 | 622 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:26:30 | 47.57 | 43.67 | 616 | 1.56 | 0.13 | 33.7 |
| 4/19/2015 4:26:30 | 47.90 | 44.00 | 619 | 1.57 | 0.13 | 33.8 |
| 4/19/2015 4:26:31 | 48.23 | 44.33 | 616 | 1.57 | 0.13 | 33.7 |
| 4/19/2015 4:26:31 | 48.56 | 44.66 | 619 | 1.55 | 0.13 | 33.8 |
| 4/19/2015 4:26:32 | 48.88 | 44.98 | 616 | 1.57 | 0.13 | 33.7 |
| 4/19/2015 4:26:33 | 49.21 | 45.31 | 619 | 1.57 | 0.13 | 33.8 |
| 4/19/2015 4:26:33 | 49.54 | 45.64 | 609 | 1.57 | 0.13 | 33.3 |
| 4/19/2015 4:26:34 | 49.87 | 45.97 | 618 | 1.56 | 0.13 | 33.8 |
| 4/19/2015 4:26:35 | 50.20 | 46.30 | 608 | 1.55 | 0.13 | 33.3 |
| 4/19/2015 4:26:35 | 50.53 | 46.63 | 608 | 1.56 | 0.13 | 33.3 |
| 4/19/2015 4:26:36 | 50.85 | 46.95 | 592 | 1.56 | 0.13 | 32.4 |
| 4/19/2015 4:26:36 | 51.18 | 47.28 | 592 | 1.57 | 0.13 | 32.4 |
| 4/19/2015 4:26:37 | 51.51 | 47.61 | 611 | 1.56 | 0.13 | 33.4 |
| 4/19/2015 4:26:37 | 51.84 | 47.94 | 603 | 1.56 | 0.13 | 33.0 |
| 4/19/2015 4:26:38 | 52.17 | 48.27 | 609 | 1.56 | 0.13 | 33.3 |
| 4/19/2015 4:26:39 | 52.49 | 48.59 | 620 | 1.57 | 0.13 | 33.9 |
| 4/19/2015 4:26:39 | 52.82 | 48.92 | 607 | 1.96 | 0.13 | 33.2 |
| 4/19/2015 4:27:09 | 53.15 | 49.25 | 53 | 1.63 | 0.93 | 2.9 |
| 4/19/2015 4:27:14 | 53.48 | 49.58 | 10 | 1.59 | 0.97 | 0.6 |
| 4/19/2015 4:27:15 | 53.81 | 49.91 | 116 | 1.53 | 0.90 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 4:27:15 | 54.13 | 50.23 | 213 | 1.61 | 0.87 | 11.7 |
| 4/19/2015 | 4:27:16 | 54.46 | 50.56 | 408 | 1.59 | 0.91 | 22.3 |
| 4/19/2015 | 4:27:17 | 54.79 | 50.89 | 494 | 1.60 | 0.94 | 27.0 |
| 4/19/2015 | 4:27:18 | 55.12 | 51.22 | 466 | 1.70 | 1.10 | 25.5 |
| 4/19/2015 | 4:27:38 | 55.45 | 51.55 | 101 | 1.74 | 1.17 | 5.5 |
| 4/19/2015 | 4:27:45 | 55.77 | 51.87 | 78 | 1.70 | 1.07 | 4.3 |
| 4/19/2015 | 4:27:53 | 56.10 | 52.20 | 0 | 1.62 | 1.00 | 0.0 |
| 4/19/2015 | 4:27:54 | 56.43 | 52.53 | 83 | 1.70 | 1.06 | 4.6 |
| 4/19/2015 | 4:27:57 | 56.76 | 52.86 | 253 | 1.77 | 1.04 | 13.9 |
| 4/19/2015 | 4:27:59 | 57.09 | 53.19 | 135 | 1.80 | 1.14 | 7.4 |
| 4/19/2015 | 4:28:09 | 57.41 | 53.51 | 81 | 1.81 | 1.21 | 4.4 |
| 4/19/2015 | 4:28:15 | 57.74 | 53.84 | 50 | 1.83 | 1.07 | 2.8 |
| 4/19/2015 | 4:28:23 | 58.07 | 54.17 | 35 | 1.83 | 1.08 | 1.9 |
| 4/19/2015 | 4:28:29 | 58.27 | 54.37 | 37 | 1.81 | 1.20 | 2.0 |

## D38 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:24:00

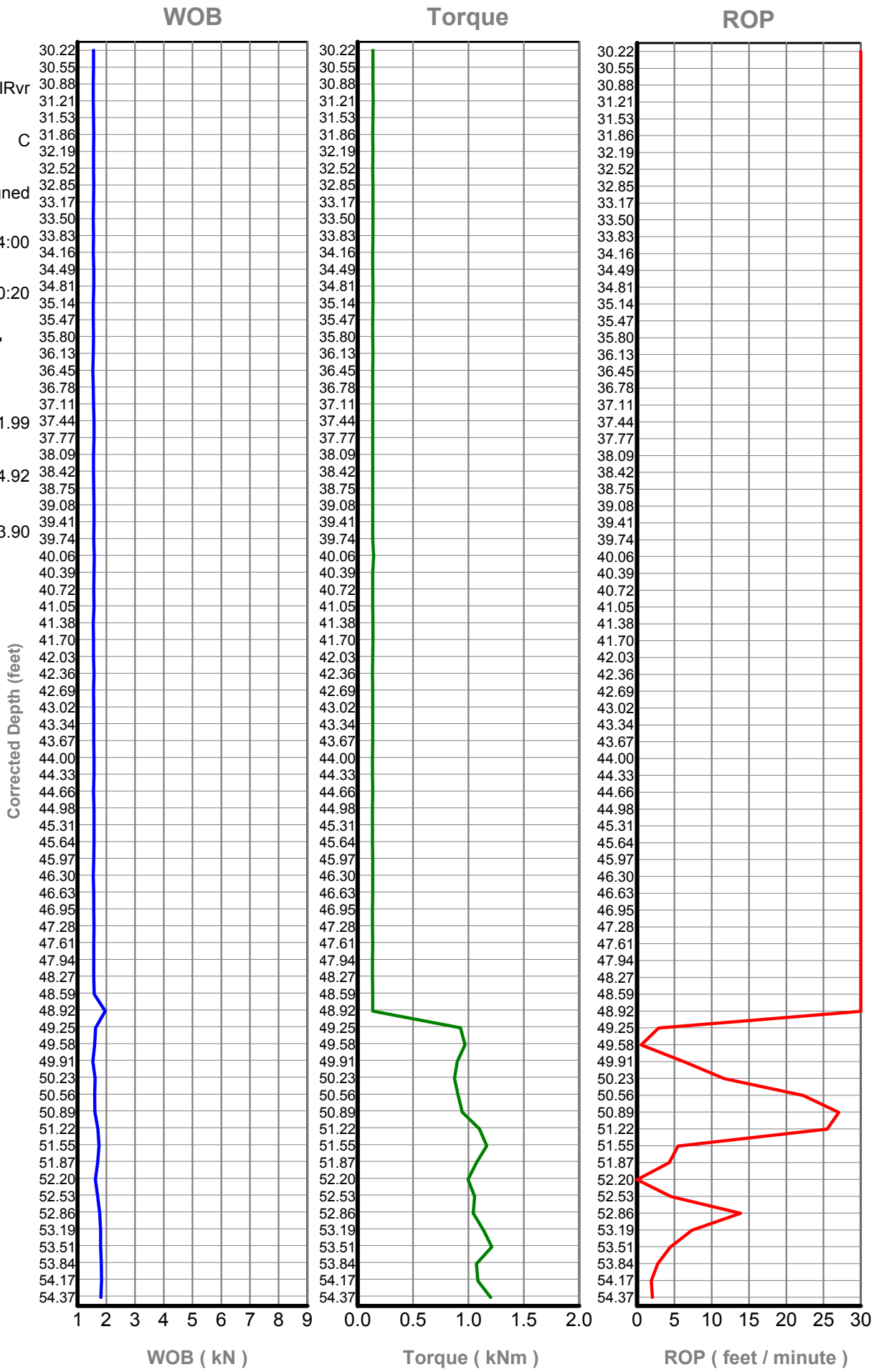
**End Date:**
4/19/2015 4:30:20

**Operator Note:**
'3.9 4.23 Auto Complete'

**Northing:**
369,711.99

**Easting:**
255,154.92

**Tide (feet):**
3.90



## Hole: D39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:17:41 | 34.12 | 30.12 | 626 | 1.56 | 0.13 | 34.2 |
| 4/19/2015 4:17:42 | 34.45 | 30.45 | 623 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:17:42 | 34.78 | 30.78 | 620 | 1.57 | 0.13 | 33.9 |
| 4/19/2015 4:17:43 | 35.11 | 31.11 | 633 | 1.55 | 0.13 | 34.6 |
| 4/19/2015 4:17:43 | 35.43 | 31.43 | 624 | 1.56 | 0.13 | 34.1 |
| 4/19/2015 4:17:44 | 35.76 | 31.76 | 617 | 1.55 | 0.13 | 33.8 |
| 4/19/2015 4:17:44 | 36.09 | 32.09 | 628 | 1.57 | 0.13 | 34.3 |
| 4/19/2015 4:17:45 | 36.42 | 32.42 | 631 | 1.55 | 0.13 | 34.5 |
| 4/19/2015 4:17:45 | 36.75 | 32.75 | 628 | 1.55 | 0.13 | 34.3 |
| 4/19/2015 4:17:46 | 37.07 | 33.07 | 628 | 1.56 | 0.13 | 34.3 |
| 4/19/2015 4:17:46 | 37.40 | 33.40 | 637 | 1.57 | 0.13 | 34.8 |
| 4/19/2015 4:17:47 | 37.73 | 33.73 | 624 | 1.56 | 0.13 | 34.1 |
| 4/19/2015 4:17:48 | 38.06 | 34.06 | 624 | 1.56 | 0.13 | 34.1 |
| 4/19/2015 4:17:48 | 38.39 | 34.39 | 630 | 1.55 | 0.13 | 34.5 |
| 4/19/2015 4:17:49 | 38.71 | 34.71 | 624 | 1.57 | 0.13 | 34.1 |
| 4/19/2015 4:17:49 | 39.04 | 35.04 | 624 | 1.57 | 0.13 | 34.1 |
| 4/19/2015 4:17:50 | 39.37 | 35.37 | 630 | 1.57 | 0.13 | 34.5 |
| 4/19/2015 4:17:50 | 39.70 | 35.70 | 627 | 1.56 | 0.13 | 34.3 |
| 4/19/2015 4:17:51 | 40.03 | 36.03 | 624 | 1.56 | 0.13 | 34.1 |
| 4/19/2015 4:17:51 | 40.35 | 36.35 | 621 | 1.56 | 0.13 | 33.9 |
| 4/19/2015 4:17:52 | 40.68 | 36.68 | 624 | 1.57 | 0.13 | 34.1 |
| 4/19/2015 4:17:53 | 41.01 | 37.01 | 628 | 1.56 | 0.13 | 34.3 |
| 4/19/2015 4:17:54 | 41.34 | 37.34 | 625 | 1.55 | 0.13 | 34.2 |
| 4/19/2015 4:17:54 | 41.67 | 37.67 | 631 | 1.56 | 0.13 | 34.5 |
| 4/19/2015 4:17:55 | 41.99 | 37.99 | 624 | 1.52 | 0.13 | 34.1 |
| 4/19/2015 4:17:55 | 42.32 | 38.32 | 621 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:17:56 | 42.65 | 38.65 | 621 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:17:56 | 42.98 | 38.98 | 617 | 1.56 | 0.13 | 33.8 |
| 4/19/2015 4:17:57 | 43.31 | 39.31 | 625 | 1.56 | 0.13 | 34.2 |
| 4/19/2015 4:17:57 | 43.64 | 39.64 | 625 | 1.55 | 0.13 | 34.2 |
| 4/19/2015 4:17:58 | 43.96 | 39.96 | 622 | 1.57 | 0.13 | 34.0 |
| 4/19/2015 4:17:59 | 44.29 | 40.29 | 628 | 1.57 | 0.13 | 34.4 |
| 4/19/2015 4:17:59 | 44.62 | 40.62 | 618 | 1.58 | 0.13 | 33.8 |
| 4/19/2015 4:18:00 | 44.95 | 40.95 | 618 | 1.56 | 0.13 | 33.8 |
| 4/19/2015 4:18:00 | 45.28 | 41.28 | 611 | 1.57 | 0.13 | 33.4 |
| 4/19/2015 4:18:01 | 45.60 | 41.60 | 619 | 1.57 | 0.13 | 33.9 |
| 4/19/2015 4:18:01 | 45.93 | 41.93 | 616 | 1.55 | 0.13 | 33.7 |
| 4/19/2015 4:18:02 | 46.26 | 42.26 | 619 | 1.56 | 0.13 | 33.9 |
| 4/19/2015 4:18:03 | 46.59 | 42.59 | 616 | 1.56 | 0.13 | 33.7 |
| 4/19/2015 4:18:03 | 46.92 | 42.92 | 626 | 1.57 | 0.13 | 34.2 |
| 4/19/2015 4:18:04 | 47.24 | 43.24 | 622 | 1.56 | 0.13 | 34.0 |
| 4/19/2015 4:18:05 | 47.57 | 43.57 | 616 | 1.57 | 0.13 | 33.7 |
| 4/19/2015 4:18:05 | 47.90 | 43.90 | 619 | 1.57 | 0.13 | 33.8 |
| 4/19/2015 4:18:06 | 48.23 | 44.23 | 612 | 1.56 | 0.13 | 33.5 |
| 4/19/2015 4:18:06 | 48.56 | 44.56 | 616 | 1.57 | 0.13 | 33.7 |
| 4/19/2015 4:18:44 | 48.88 | 44.88 | 3 | 1.72 | 1.10 | 0.2 |
| 4/19/2015 4:18:57 | 49.21 | 45.21 | 14 | 1.76 | 1.18 | 0.8 |
| 4/19/2015 4:19:15 | 49.54 | 45.54 | 14 | 1.83 | 1.10 | 0.8 |
| 4/19/2015 4:19:25 | 49.87 | 45.87 | 84 | 1.73 | 1.15 | 4.6 |
| 4/19/2015 4:19:28 | 50.20 | 46.20 | 171 | 1.81 | 1.21 | 9.3 |
| 4/19/2015 4:19:31 | 50.53 | 46.53 | 90 | 1.81 | 1.16 | 4.9 |
| 4/19/2015 4:19:38 | 50.85 | 46.85 | 61 | 1.83 | 1.16 | 3.3 |
| 4/19/2015 4:19:44 | 51.18 | 47.18 | 52 | 1.83 | 1.24 | 2.9 |
| 4/19/2015 4:19:52 | 51.51 | 47.51 | 44 | 1.83 | 1.10 | 2.4 |
| 4/19/2015 4:19:59 | 51.84 | 47.84 | 58 | 1.83 | 1.16 | 3.1 |

## D39 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:15:53

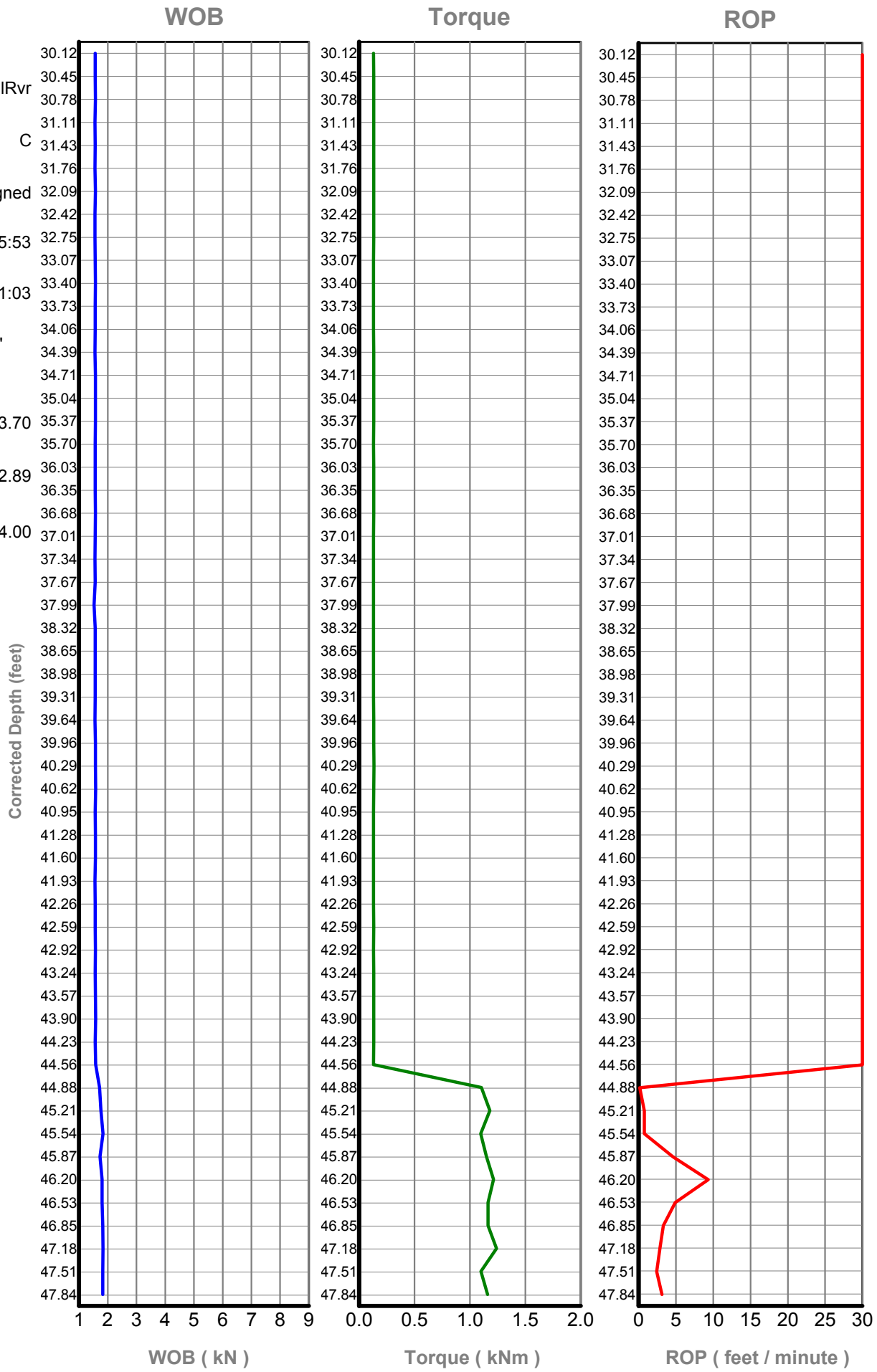
**End Date:**
4/19/2015 4:21:03

**Operator Note:**
'4 4.23 c Auto Complete'

**Northing:**
369,743.70

**Easting:**
255,222.89

**Tide (feet):**
4.00



## Hole: D4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:43:54 | 36.42 | 30.32 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 0:43:54 | 36.75 | 30.65 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 0:43:54 | 37.07 | 30.97 | 1,040 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 0:43:55 | 37.40 | 31.30 | 1,040 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 0:43:55 | 37.73 | 31.63 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 0:43:55 | 38.06 | 31.96 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 0:43:56 | 38.39 | 32.29 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 0:43:56 | 38.71 | 32.61 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 0:43:57 | 39.04 | 32.94 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 0:43:57 | 39.37 | 33.27 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 0:43:57 | 39.70 | 33.60 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 0:43:58 | 40.03 | 33.93 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 0:43:58 | 40.35 | 34.25 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 0:43:58 | 40.68 | 34.58 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 0:43:59 | 41.01 | 34.91 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 0:43:59 | 41.34 | 35.24 | 1,062 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 0:43:59 | 41.67 | 35.57 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 0:44:10 | 41.99 | 35.89 | 21 | 0.24 | 0.37 | 1.1 |
| 4/19/2015 0:44:11 | 42.32 | 36.22 | 218 | 0.24 | 0.37 | 11.9 |
| 4/19/2015 0:44:16 | 42.65 | 36.55 | 29 | 0.24 | 0.37 | 1.6 |
| 4/19/2015 0:44:17 | 42.98 | 36.88 | 56 | 0.24 | 0.37 | 3.0 |
| 4/19/2015 0:44:18 | 43.31 | 37.21 | 279 | 0.24 | 0.37 | 15.3 |
| 4/19/2015 0:44:18 | 43.64 | 37.54 | 388 | 0.24 | 0.37 | 21.2 |
| 4/19/2015 0:44:24 | 43.96 | 37.86 | 3 | 0.24 | 0.37 | 0.2 |
| 4/19/2015 0:44:25 | 44.29 | 38.19 | 112 | 0.24 | 0.37 | 6.1 |
| 4/19/2015 0:44:26 | 44.62 | 38.52 | 257 | 0.24 | 0.37 | 14.0 |
| 4/19/2015 0:44:27 | 44.95 | 38.85 | 371 | 0.24 | 0.37 | 20.3 |
| 4/19/2015 0:44:27 | 45.28 | 39.18 | 456 | 0.24 | 0.37 | 24.9 |
| 4/19/2015 0:44:29 | 45.60 | 39.50 | 422 | 0.24 | 0.37 | 23.1 |
| 4/19/2015 0:44:32 | 45.93 | 39.83 | 78 | 0.24 | 0.37 | 4.3 |
| 4/19/2015 0:44:33 | 46.26 | 40.16 | 212 | 0.24 | 0.37 | 11.6 |
| 4/19/2015 0:44:34 | 46.59 | 40.49 | 318 | 0.24 | 0.37 | 17.4 |
| 4/19/2015 0:44:35 | 46.92 | 40.82 | 369 | 0.24 | 0.37 | 20.2 |
| 4/19/2015 0:44:36 | 47.24 | 41.14 | 381 | 0.24 | 0.37 | 20.8 |
| 4/19/2015 0:44:36 | 47.57 | 41.47 | 428 | 0.24 | 0.37 | 23.4 |
| 4/19/2015 0:44:37 | 47.90 | 41.80 | 509 | 0.24 | 0.37 | 27.8 |
| 4/19/2015 0:44:43 | 48.23 | 42.13 | 44 | 0.24 | 0.37 | 2.4 |
| 4/19/2015 0:44:49 | 48.56 | 42.46 | 67 | 0.24 | 0.37 | 3.7 |
| 4/19/2015 0:44:55 | 48.88 | 42.78 | 52 | 0.24 | 0.37 | 2.9 |
| 4/19/2015 0:45:03 | 49.21 | 43.11 | 41 | 0.24 | 0.37 | 2.2 |
| 4/19/2015 0:45:12 | 49.54 | 43.44 | 35 | 0.24 | 0.37 | 1.9 |
| 4/19/2015 0:45:23 | 49.87 | 43.77 | 29 | 0.24 | 0.37 | 1.6 |
| 4/19/2015 0:45:35 | 50.20 | 44.10 | 29 | 0.24 | 0.37 | 1.6 |
| 4/19/2015 0:45:46 | 50.53 | 44.43 | 37 | 0.24 | 0.37 | 2.0 |
| 4/19/2015 0:45:57 | 50.85 | 44.75 | 35 | 0.24 | 0.37 | 1.9 |
| 4/19/2015 0:45:58 | 50.91 | 44.81 | 34 | 0.24 | 0.37 | 1.9 |

## D4 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 0:40:44

**End Date:**
4/19/2015 0:53:07

**Operator Note:**
'6.1 Redrll Auto Complete'

**Northing:**
369,986.81

**Easting:**
255,203.63

**Tide (feet):**
6.10



## Hole: D40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 22:44:15 | 34.12 | 30.32 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 22:44:15 | 34.45 | 30.65 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 22:44:15 | 34.78 | 30.98 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 22:44:16 | 35.11 | 31.31 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 22:44:16 | 35.43 | 31.63 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 22:44:16 | 35.76 | 31.96 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:17 | 36.09 | 32.29 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:17 | 36.42 | 32.62 | 988 | 0.24 | 0.37 | 54.0 |
| 4/18/2015 22:44:18 | 36.75 | 32.95 | 988 | 0.24 | 0.37 | 54.0 |
| 4/18/2015 22:44:18 | 37.07 | 33.27 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 22:44:18 | 37.40 | 33.60 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:19 | 37.73 | 33.93 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:19 | 38.06 | 34.26 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 22:44:19 | 38.39 | 34.59 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:20 | 38.71 | 34.91 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:20 | 39.04 | 35.24 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:20 | 39.37 | 35.57 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 22:44:21 | 39.70 | 35.90 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 22:44:21 | 40.03 | 36.23 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:22 | 40.35 | 36.55 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 22:44:22 | 40.68 | 36.88 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:23 | 41.01 | 37.21 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:23 | 41.34 | 37.54 | 990 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 22:44:23 | 41.67 | 37.87 | 992 | 0.24 | 0.37 | 54.3 |
| 4/18/2015 22:44:24 | 41.99 | 38.19 | 992 | 0.24 | 0.37 | 54.3 |
| 4/18/2015 22:44:24 | 42.32 | 38.52 | 978 | 0.24 | 0.37 | 53.5 |
| 4/18/2015 22:44:24 | 42.65 | 38.85 | 981 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 22:44:25 | 42.98 | 39.18 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:25 | 43.31 | 39.51 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 22:44:25 | 43.64 | 39.84 | 983 | 0.24 | 0.37 | 53.7 |
| 4/18/2015 22:44:26 | 43.96 | 40.16 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 22:44:26 | 44.29 | 40.49 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 22:44:26 | 44.62 | 40.82 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 22:44:27 | 44.95 | 41.15 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:27 | 45.28 | 41.48 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 22:44:27 | 45.60 | 41.80 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:28 | 45.93 | 42.13 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:28 | 46.26 | 42.46 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:28 | 46.59 | 42.79 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:29 | 46.92 | 43.12 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 22:44:29 | 47.24 | 43.44 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 22:44:30 | 47.57 | 43.77 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 22:44:30 | 47.90 | 44.10 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 22:44:30 | 48.23 | 44.43 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 22:44:57 | 48.56 | 44.76 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 22:44:58 | 48.88 | 45.08 | 177 | 0.24 | 0.37 | 9.7 |
| 4/18/2015 22:45:11 | 49.21 | 45.41 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 22:45:15 | 49.54 | 45.74 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 22:45:20 | 49.87 | 46.07 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 22:45:25 | 50.20 | 46.40 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 22:45:32 | 50.53 | 46.73 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 22:45:37 | 50.85 | 47.05 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 22:45:57 | 50.93 | 47.13 | 0 | 0.24 | 0.37 | 0.0 |

## D40 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 22:42:52

**End Date:**
4/18/2015 22:46:56

**Operator Note:**
'3.8 3.4 b Auto Complete'

**Northing:**
369,786.41

**Easting:**
255,305.38

**Tide (feet):**
3.80



## Hole: D41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 22:35:48 | 33.79 | 30.19 | 721 | 0.24 | 0.37 | 39.4 |
| 4/18/2015 22:35:48 | 34.12 | 30.52 | 881 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:49 | 34.45 | 30.85 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 22:35:49 | 34.78 | 31.18 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 22:35:49 | 35.11 | 31.51 | 882 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:50 | 35.43 | 31.83 | 882 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:50 | 35.76 | 32.16 | 884 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:35:51 | 36.09 | 32.49 | 873 | 0.24 | 0.37 | 47.7 |
| 4/18/2015 22:35:51 | 36.42 | 32.82 | 873 | 0.24 | 0.37 | 47.7 |
| 4/18/2015 22:35:51 | 36.75 | 33.15 | 878 | 0.24 | 0.37 | 48.0 |
| 4/18/2015 22:35:52 | 37.07 | 33.47 | 876 | 0.24 | 0.37 | 47.9 |
| 4/18/2015 22:35:52 | 37.40 | 33.80 | 881 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:53 | 37.73 | 34.13 | 881 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:53 | 38.06 | 34.46 | 881 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 22:35:53 | 38.39 | 34.79 | 884 | 0.24 | 0.37 | 48.3 |
| 4/18/2015 22:35:54 | 38.71 | 35.11 | 879 | 0.24 | 0.37 | 48.1 |
| 4/18/2015 22:35:54 | 39.04 | 35.44 | 884 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:35:55 | 39.37 | 35.77 | 884 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:35:55 | 39.70 | 36.10 | 893 | 0.24 | 0.37 | 48.8 |
| 4/18/2015 22:35:56 | 40.03 | 36.43 | 896 | 0.24 | 0.37 | 49.0 |
| 4/18/2015 22:35:56 | 40.35 | 36.75 | 899 | 0.24 | 0.37 | 49.1 |
| 4/18/2015 22:35:57 | 40.68 | 37.08 | 899 | 0.24 | 0.37 | 49.1 |
| 4/18/2015 22:35:57 | 41.01 | 37.41 | 907 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 22:35:57 | 41.34 | 37.74 | 902 | 0.24 | 0.37 | 49.3 |
| 4/18/2015 22:35:58 | 41.67 | 38.07 | 893 | 0.24 | 0.37 | 48.8 |
| 4/18/2015 22:35:58 | 41.99 | 38.39 | 890 | 0.24 | 0.37 | 48.6 |
| 4/18/2015 22:35:59 | 42.32 | 38.72 | 890 | 0.24 | 0.37 | 48.6 |
| 4/18/2015 22:35:59 | 42.65 | 39.05 | 884 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:35:59 | 42.98 | 39.38 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 22:36:00 | 43.31 | 39.71 | 885 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:36:00 | 43.64 | 40.04 | 885 | 0.24 | 0.37 | 48.4 |
| 4/18/2015 22:36:00 | 43.96 | 40.36 | 894 | 0.24 | 0.37 | 48.9 |
| 4/18/2015 22:36:01 | 44.29 | 40.69 | 894 | 0.24 | 0.37 | 48.9 |
| 4/18/2015 22:36:01 | 44.62 | 41.02 | 902 | 0.24 | 0.37 | 49.3 |
| 4/18/2015 22:36:02 | 44.95 | 41.35 | 902 | 0.24 | 0.37 | 49.3 |
| 4/18/2015 22:36:02 | 45.28 | 41.68 | 905 | 0.24 | 0.37 | 49.5 |
| 4/18/2015 22:36:02 | 45.60 | 42.00 | 913 | 0.24 | 0.37 | 49.9 |
| 4/18/2015 22:36:03 | 45.93 | 42.33 | 907 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 22:36:03 | 46.26 | 42.66 | 907 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 22:36:03 | 46.59 | 42.99 | 904 | 0.24 | 0.37 | 49.5 |
| 4/18/2015 22:36:04 | 46.92 | 43.32 | 904 | 0.24 | 0.37 | 49.4 |
| 4/18/2015 22:36:04 | 47.24 | 43.64 | 904 | 0.24 | 0.37 | 49.5 |
| 4/18/2015 22:36:05 | 47.57 | 43.97 | 907 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 22:36:05 | 47.90 | 44.30 | 907 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 22:36:05 | 48.23 | 44.63 | 910 | 0.24 | 0.37 | 49.8 |
| 4/18/2015 22:36:06 | 48.56 | 44.96 | 913 | 0.24 | 0.37 | 49.9 |
| 4/18/2015 22:36:31 | 48.88 | 45.28 | 3 | 0.24 | 0.37 | 0.2 |
| 4/18/2015 22:36:42 | 49.21 | 45.61 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 22:36:47 | 49.54 | 45.94 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 22:36:52 | 49.87 | 46.27 | 68 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 22:36:58 | 50.20 | 46.60 | 68 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 22:37:01 | 50.42 | 46.82 | 72 | 0.24 | 0.37 | 4.0 |

## D41 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 22:32:36

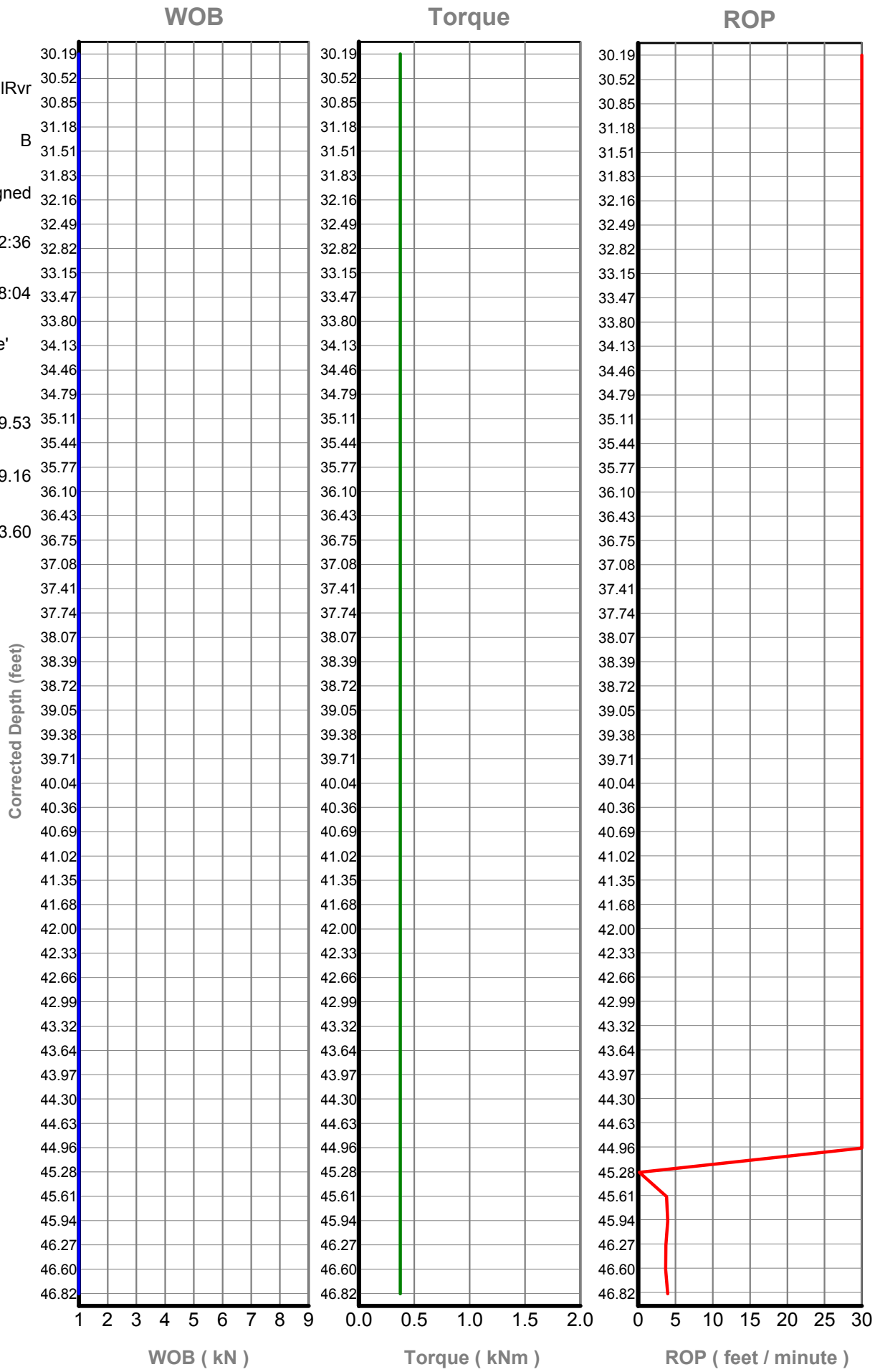
**End Date:**
4/18/2015 22:38:04

**Operator Note:**
'3.6 3.4 b Auto Complete'

**Northing:**
369,809.53

**Easting:**
255,359.16

**Tide (feet):**
3.60



## Hole: D42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 22:31:31 | 33.79 | 30.19 | 708 | 1.59 | 0.13 | 38.7 |
| 4/18/2015 22:31:32 | 34.12 | 30.52 | 705 | 1.60 | 0.13 | 38.6 |
| 4/18/2015 22:31:32 | 34.45 | 30.85 | 705 | 1.59 | 0.13 | 38.6 |
| 4/18/2015 22:31:33 | 34.78 | 31.18 | 715 | 1.60 | 0.13 | 39.1 |
| 4/18/2015 22:31:33 | 35.11 | 31.51 | 708 | 1.59 | 0.13 | 38.7 |
| 4/18/2015 22:31:34 | 35.43 | 31.83 | 708 | 1.60 | 0.13 | 38.7 |
| 4/18/2015 22:31:34 | 35.76 | 32.16 | 708 | 1.60 | 0.13 | 38.7 |
| 4/18/2015 22:31:35 | 36.09 | 32.49 | 693 | 1.59 | 0.13 | 37.9 |
| 4/18/2015 22:31:35 | 36.42 | 32.82 | 693 | 1.59 | 0.13 | 37.9 |
| 4/18/2015 22:31:36 | 36.75 | 33.15 | 693 | 1.59 | 0.13 | 37.9 |
| 4/18/2015 22:31:36 | 37.07 | 33.47 | 698 | 1.60 | 0.12 | 38.1 |
| 4/18/2015 22:31:36 | 37.40 | 33.80 | 691 | 1.59 | 0.13 | 37.8 |
| 4/18/2015 22:31:37 | 37.73 | 34.13 | 702 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:37 | 38.06 | 34.46 | 701 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:38 | 38.39 | 34.79 | 714 | 1.59 | 0.13 | 39.0 |
| 4/18/2015 22:31:38 | 38.71 | 35.11 | 698 | 1.59 | 0.13 | 38.2 |
| 4/18/2015 22:31:39 | 39.04 | 35.44 | 709 | 1.59 | 0.13 | 38.8 |
| 4/18/2015 22:31:39 | 39.37 | 35.77 | 697 | 1.59 | 0.13 | 38.1 |
| 4/18/2015 22:31:40 | 39.70 | 36.10 | 697 | 1.59 | 0.13 | 38.1 |
| 4/18/2015 22:31:40 | 40.03 | 36.43 | 706 | 1.58 | 0.13 | 38.6 |
| 4/18/2015 22:31:41 | 40.35 | 36.75 | 717 | 1.59 | 0.13 | 39.2 |
| 4/18/2015 22:31:41 | 40.68 | 37.08 | 713 | 1.60 | 0.13 | 39.0 |
| 4/18/2015 22:31:42 | 41.01 | 37.41 | 710 | 1.59 | 0.13 | 38.8 |
| 4/18/2015 22:31:43 | 41.34 | 37.74 | 714 | 1.59 | 0.13 | 39.0 |
| 4/18/2015 22:31:43 | 41.67 | 38.07 | 708 | 1.59 | 0.13 | 38.7 |
| 4/18/2015 22:31:44 | 41.99 | 38.39 | 701 | 1.60 | 0.13 | 38.3 |
| 4/18/2015 22:31:44 | 42.32 | 38.72 | 702 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:45 | 42.65 | 39.05 | 705 | 1.59 | 0.13 | 38.6 |
| 4/18/2015 22:31:45 | 42.98 | 39.38 | 705 | 1.59 | 0.13 | 38.6 |
| 4/18/2015 22:31:46 | 43.31 | 39.71 | 702 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:46 | 43.64 | 40.04 | 707 | 1.59 | 0.13 | 38.6 |
| 4/18/2015 22:31:47 | 43.96 | 40.36 | 703 | 1.60 | 0.13 | 38.4 |
| 4/18/2015 22:31:47 | 44.29 | 40.69 | 703 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:48 | 44.62 | 41.02 | 695 | 1.59 | 0.13 | 38.0 |
| 4/18/2015 22:31:48 | 44.95 | 41.35 | 703 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:49 | 45.28 | 41.68 | 695 | 1.59 | 0.13 | 38.0 |
| 4/18/2015 22:31:49 | 45.60 | 42.00 | 703 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:50 | 45.93 | 42.33 | 700 | 1.59 | 0.13 | 38.3 |
| 4/18/2015 22:31:50 | 46.26 | 42.66 | 707 | 1.59 | 0.13 | 38.7 |
| 4/18/2015 22:31:51 | 46.59 | 42.99 | 700 | 1.60 | 0.13 | 38.3 |
| 4/18/2015 22:31:51 | 46.92 | 43.32 | 703 | 1.59 | 0.13 | 38.4 |
| 4/18/2015 22:31:52 | 47.24 | 43.64 | 700 | 1.59 | 0.13 | 38.3 |
| 4/18/2015 22:31:53 | 47.57 | 43.97 | 702 | 1.60 | 0.13 | 38.4 |
| 4/18/2015 22:31:53 | 47.90 | 44.30 | 695 | 1.62 | 0.13 | 38.0 |
| 4/18/2015 22:31:54 | 48.23 | 44.63 | 694 | 1.81 | 0.13 | 37.9 |
| 4/18/2015 22:32:19 | 48.56 | 44.96 | 8 | 1.65 | 1.08 | 0.5 |
| 4/18/2015 22:32:20 | 48.88 | 45.28 | 190 | 1.81 | 1.31 | 10.4 |
| 4/18/2015 22:32:29 | 49.21 | 45.61 | 111 | 1.78 | 1.25 | 6.1 |
| 4/18/2015 22:32:37 | 49.54 | 45.94 | 63 | 1.74 | 1.17 | 3.4 |
| 4/18/2015 22:32:39 | 49.87 | 46.27 | 160 | 1.77 | 1.22 | 8.8 |
| 4/18/2015 22:32:49 | 50.20 | 46.60 | 52 | 1.83 | 1.16 | 2.8 |
| 4/18/2015 22:32:50 | 50.53 | 46.93 | 119 | 1.79 | 1.13 | 6.5 |
| 4/18/2015 22:32:52 | 50.85 | 47.25 | 205 | 1.76 | 1.16 | 11.2 |
| 4/18/2015 22:32:59 | 51.18 | 47.58 | 13 | 1.76 | 1.14 | 0.7 |
| 4/18/2015 22:33:01 | 51.51 | 47.91 | 123 | 1.81 | 1.11 | 6.7 |
| 4/18/2015 22:33:04 | 51.84 | 48.24 | 127 | 1.83 | 1.24 | 7.0 |
| 4/18/2015 22:33:08 | 52.17 | 48.57 | 93 | 1.85 | 1.26 | 5.1 |
| 4/18/2015 22:33:13 | 52.49 | 48.89 | 66 | 1.85 | 1.24 | 3.6 |
| 4/18/2015 22:33:18 | 52.82 | 49.22 | 74 | 1.85 | 1.17 | 4.1 |
| 4/18/2015 22:33:23 | 53.11 | 49.51 | 68 | 1.85 | 1.23 | 3.7 |

## D42 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 22:30:00

**End Date:**
4/18/2015 22:34:01

**Operator Note:**
'3.6 3.4 c Auto Complete'

**Northing:**
369,842.01

**Easting:**
255,432.42

**Tide (feet):**
3.60



## Hole: D43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:18:49 | 33.46 | 30.26 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:18:49 | 33.79 | 30.59 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:18:50 | 34.12 | 30.92 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:18:50 | 34.45 | 31.25 | 1,078 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 16:18:50 | 34.78 | 31.58 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:18:51 | 35.11 | 31.91 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:18:51 | 35.43 | 32.23 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:18:51 | 35.76 | 32.56 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:18:51 | 36.09 | 32.89 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:18:52 | 36.42 | 33.22 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:18:52 | 36.75 | 33.55 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:18:52 | 37.07 | 33.87 | 1,086 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:18:53 | 37.40 | 34.20 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:18:53 | 37.73 | 34.53 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:18:53 | 38.06 | 34.86 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 16:18:54 | 38.39 | 35.19 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 16:18:54 | 38.71 | 35.51 | 1,076 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 16:18:54 | 39.04 | 35.84 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:18:55 | 39.37 | 36.17 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:55 | 39.70 | 36.50 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:55 | 40.03 | 36.83 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:56 | 40.35 | 37.15 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:56 | 40.68 | 37.48 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:18:56 | 41.01 | 37.81 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:18:57 | 41.34 | 38.14 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:18:57 | 41.67 | 38.47 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:18:57 | 41.99 | 38.79 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:58 | 42.32 | 39.12 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:58 | 42.65 | 39.45 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:18:59 | 42.98 | 39.78 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:18:59 | 43.31 | 40.11 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:18:59 | 43.64 | 40.44 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 16:19:00 | 43.96 | 40.76 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 16:19:00 | 44.29 | 41.09 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 16:19:00 | 44.62 | 41.42 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:19:01 | 44.95 | 41.75 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:19:01 | 45.28 | 42.08 | 1,068 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 16:19:01 | 45.60 | 42.40 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:19:02 | 45.93 | 42.73 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:19:02 | 46.26 | 43.06 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:19:02 | 46.59 | 43.39 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:19:03 | 46.92 | 43.72 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:19:03 | 47.24 | 44.04 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:19:03 | 47.57 | 44.37 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 16:19:04 | 47.90 | 44.70 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 16:19:04 | 48.23 | 45.03 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/18/2015 16:19:04 | 48.56 | 45.36 | 1,080 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:19:05 | 48.88 | 45.68 | 1,080 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:19:11 | 49.21 | 46.01 | 75 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 16:19:16 | 49.54 | 46.34 | 32 | 0.24 | 0.37 | 1.8 |
| 4/18/2015 16:19:19 | 49.87 | 46.67 | 93 | 0.24 | 0.37 | 5.1 |
| 4/18/2015 16:19:23 | 50.20 | 47.00 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 16:19:25 | 50.53 | 47.33 | 121 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 16:19:28 | 50.85 | 47.65 | 119 | 0.24 | 0.37 | 6.5 |
| 4/18/2015 16:19:35 | 51.18 | 47.98 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 16:19:42 | 51.51 | 48.31 | 52 | 0.24 | 0.37 | 2.9 |
| 4/18/2015 16:19:48 | 51.84 | 48.64 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 16:19:54 | 52.14 | 48.94 | 47 | 0.24 | 0.37 | 2.5 |

## D43 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:17:06

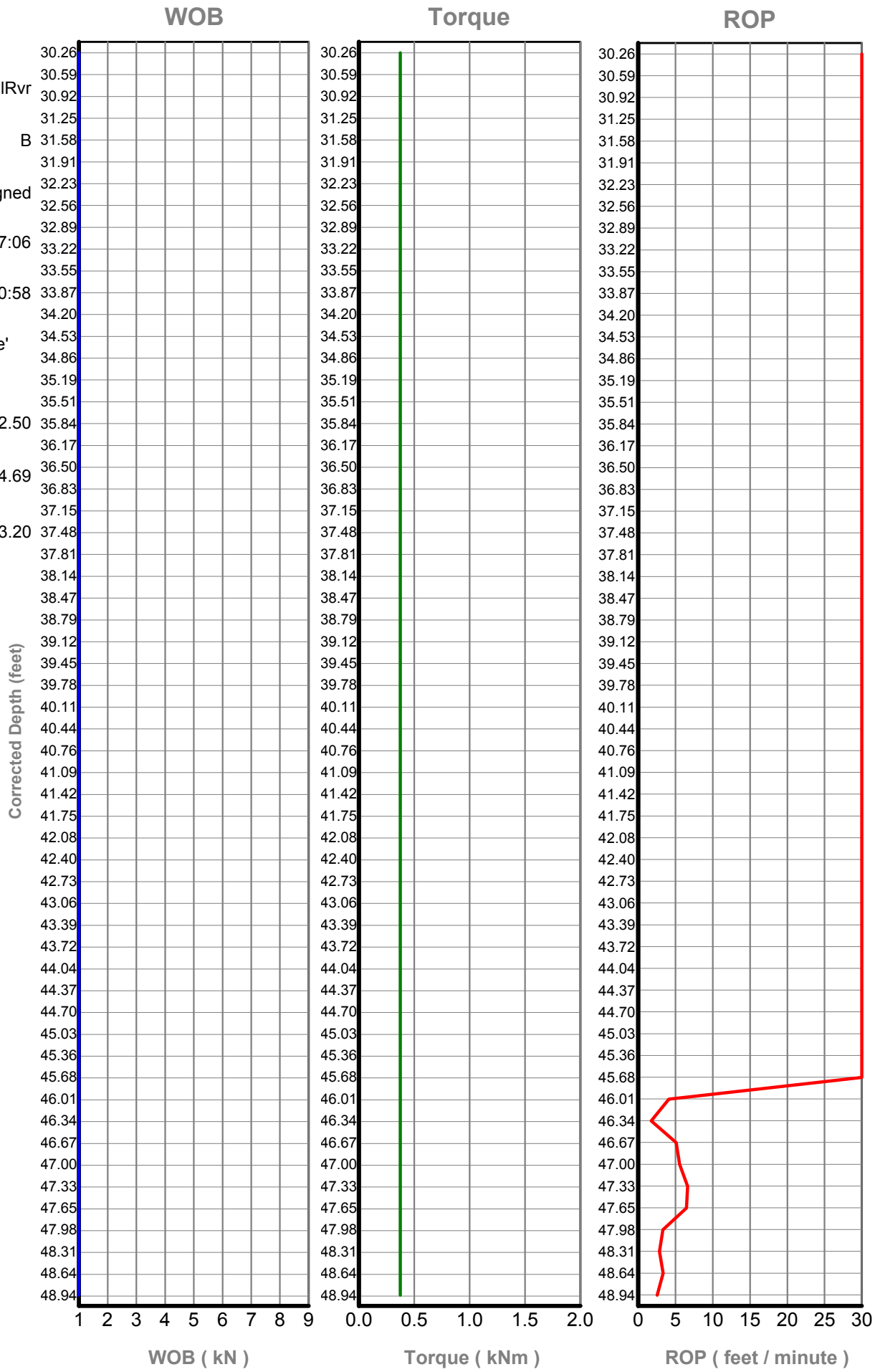
**End Date:**
4/18/2015 16:20:58

**Operator Note:**
'3.2 3.5 b Auto Complete'

**Northing:**
369,882.50

**Easting:**
255,524.69

**Tide (feet):**
3.20



## Hole: D44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:22:47 | 33.14 | 30.04 | 1,147 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 16:22:48 | 33.46 | 30.36 | 1,141 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:48 | 33.79 | 30.69 | 1,141 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:48 | 34.12 | 31.02 | 1,141 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:49 | 34.45 | 31.35 | 1,141 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:49 | 34.78 | 31.68 | 1,151 | 0.24 | 0.37 | 62.9 |
| 4/18/2015 16:22:49 | 35.11 | 32.01 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:50 | 35.43 | 32.33 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:50 | 35.76 | 32.66 | 1,165 | 0.24 | 0.37 | 63.7 |
| 4/18/2015 16:22:51 | 36.09 | 32.99 | 1,165 | 0.24 | 0.37 | 63.7 |
| 4/18/2015 16:22:51 | 36.42 | 33.32 | 1,152 | 0.24 | 0.37 | 63.0 |
| 4/18/2015 16:22:51 | 36.75 | 33.65 | 1,149 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:52 | 37.07 | 33.97 | 1,149 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:52 | 37.40 | 34.30 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 16:22:52 | 37.73 | 34.63 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 16:22:52 | 38.06 | 34.96 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:53 | 38.39 | 35.29 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 16:22:53 | 38.71 | 35.61 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 16:22:53 | 39.04 | 35.94 | 1,142 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:54 | 39.37 | 36.27 | 1,142 | 0.24 | 0.37 | 62.4 |
| 4/18/2015 16:22:54 | 39.70 | 36.60 | 1,152 | 0.24 | 0.37 | 63.0 |
| 4/18/2015 16:22:54 | 40.03 | 36.93 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:55 | 40.35 | 37.25 | 1,148 | 0.24 | 0.37 | 62.8 |
| 4/18/2015 16:22:55 | 40.68 | 37.58 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 16:22:55 | 41.01 | 37.91 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 16:22:55 | 41.34 | 38.24 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 16:22:56 | 41.67 | 38.57 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 16:22:56 | 41.99 | 38.89 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 16:22:56 | 42.32 | 39.22 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 16:22:57 | 42.65 | 39.55 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 16:22:57 | 42.98 | 39.88 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 16:22:57 | 43.31 | 40.21 | 1,138 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 16:22:58 | 43.64 | 40.54 | 1,138 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 16:22:58 | 43.96 | 40.86 | 1,138 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 16:22:58 | 44.29 | 41.19 | 1,138 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 16:22:58 | 44.62 | 41.52 | 1,150 | 0.24 | 0.37 | 62.9 |
| 4/18/2015 16:22:59 | 44.95 | 41.85 | 1,155 | 0.24 | 0.37 | 63.1 |
| 4/18/2015 16:22:59 | 45.28 | 42.18 | 1,155 | 0.24 | 0.37 | 63.1 |
| 4/18/2015 16:22:59 | 45.60 | 42.50 | 1,147 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 16:23:00 | 45.93 | 42.83 | 1,147 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 16:23:00 | 46.26 | 43.16 | 1,157 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 16:23:00 | 46.59 | 43.49 | 1,157 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 16:23:00 | 46.92 | 43.82 | 1,164 | 0.24 | 0.37 | 63.6 |
| 4/18/2015 16:23:01 | 47.24 | 44.14 | 1,157 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 16:23:01 | 47.57 | 44.47 | 1,157 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 16:23:01 | 47.90 | 44.80 | 1,153 | 0.24 | 0.37 | 63.1 |
| 4/18/2015 16:23:02 | 48.23 | 45.13 | 1,153 | 0.24 | 0.37 | 63.1 |
| 4/18/2015 16:23:02 | 48.56 | 45.46 | 1,160 | 0.24 | 0.37 | 63.5 |
| 4/18/2015 16:23:03 | 48.88 | 45.78 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 16:23:08 | 49.21 | 46.11 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 16:23:09 | 49.54 | 46.44 | 72 | 0.24 | 0.37 | 3.9 |
| 4/18/2015 16:23:21 | 49.87 | 46.77 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 16:23:22 | 50.20 | 47.10 | 144 | 0.24 | 0.37 | 7.9 |
| 4/18/2015 16:23:23 | 50.53 | 47.43 | 271 | 0.24 | 0.37 | 14.8 |
| 4/18/2015 16:23:39 | 50.85 | 47.75 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 16:23:45 | 51.18 | 48.08 | 44 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:23:53 | 51.51 | 48.41 | 49 | 0.24 | 0.37 | 2.7 |
| 4/18/2015 16:24:01 | 51.84 | 48.74 | 43 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:24:07 | 52.09 | 48.99 | 41 | 0.24 | 0.37 | 2.2 |

## D44 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:21:39

**End Date:**
4/18/2015 16:25:24

**Operator Note:**
'3.1 3.5 b Auto Complete'

**Northing:**
369,906.35

**Easting:**
255,578.61

**Tide (feet):**
3.10



## Hole: D45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:24:29 | 33.46 | 30.26 | 726 | 1.34 | 0.27 | 39.7 |
| 4/18/2015 16:24:30 | 33.79 | 30.59 | 728 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:24:30 | 34.12 | 30.92 | 723 | 1.53 | 0.27 | 39.6 |
| 4/18/2015 16:24:31 | 34.45 | 31.25 | 723 | 1.53 | 0.27 | 39.6 |
| 4/18/2015 16:24:31 | 34.78 | 31.58 | 723 | 1.53 | 0.27 | 39.6 |
| 4/18/2015 16:24:31 | 35.11 | 31.91 | 721 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 16:24:32 | 35.43 | 32.23 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:24:32 | 35.76 | 32.56 | 717 | 1.54 | 0.26 | 39.2 |
| 4/18/2015 16:24:33 | 36.09 | 32.89 | 719 | 1.59 | 0.27 | 39.3 |
| 4/18/2015 16:24:33 | 36.42 | 33.22 | 728 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:24:34 | 36.75 | 33.55 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:34 | 37.07 | 33.87 | 730 | 1.53 | 0.26 | 39.9 |
| 4/18/2015 16:24:35 | 37.40 | 34.20 | 730 | 1.53 | 0.26 | 39.9 |
| 4/18/2015 16:24:35 | 37.73 | 34.53 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 16:24:36 | 38.06 | 34.86 | 721 | 1.54 | 0.26 | 39.4 |
| 4/18/2015 16:24:36 | 38.39 | 35.19 | 728 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:24:37 | 38.71 | 35.51 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 16:24:37 | 39.04 | 35.84 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 16:24:38 | 39.37 | 36.17 | 726 | 1.54 | 0.26 | 39.7 |
| 4/18/2015 16:24:38 | 39.70 | 36.50 | 726 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 16:24:39 | 40.03 | 36.83 | 723 | 1.53 | 0.26 | 39.5 |
| 4/18/2015 16:24:40 | 40.35 | 37.15 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:40 | 40.68 | 37.48 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:40 | 41.01 | 37.81 | 719 | 1.54 | 0.26 | 39.3 |
| 4/18/2015 16:24:41 | 41.34 | 38.14 | 723 | 1.61 | 0.26 | 39.5 |
| 4/18/2015 16:24:41 | 41.67 | 38.47 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:42 | 41.99 | 38.79 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:42 | 42.32 | 39.12 | 723 | 1.54 | 0.26 | 39.5 |
| 4/18/2015 16:24:43 | 42.65 | 39.45 | 723 | 1.53 | 0.26 | 39.5 |
| 4/18/2015 16:24:43 | 42.98 | 39.78 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 16:24:44 | 43.31 | 40.11 | 720 | 1.55 | 0.26 | 39.4 |
| 4/18/2015 16:24:44 | 43.64 | 40.44 | 715 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 16:24:45 | 43.96 | 40.76 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 16:24:45 | 44.29 | 41.09 | 717 | 1.54 | 0.26 | 39.2 |
| 4/18/2015 16:24:46 | 44.62 | 41.42 | 720 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 16:24:46 | 44.95 | 41.75 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:24:47 | 45.28 | 42.08 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:24:47 | 45.60 | 42.40 | 714 | 1.54 | 0.26 | 39.0 |
| 4/18/2015 16:24:48 | 45.93 | 42.73 | 714 | 1.53 | 0.26 | 39.0 |
| 4/18/2015 16:24:48 | 46.26 | 43.06 | 710 | 1.53 | 0.26 | 38.8 |
| 4/18/2015 16:24:49 | 46.59 | 43.39 | 717 | 1.54 | 0.26 | 39.2 |
| 4/18/2015 16:24:50 | 46.92 | 43.72 | 714 | 1.55 | 0.26 | 39.0 |
| 4/18/2015 16:24:50 | 47.24 | 44.04 | 717 | 1.54 | 0.26 | 39.2 |
| 4/18/2015 16:24:51 | 47.57 | 44.37 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:24:51 | 47.90 | 44.70 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:24:51 | 48.23 | 45.03 | 721 | 1.53 | 0.26 | 39.4 |
| 4/18/2015 16:24:52 | 48.56 | 45.36 | 714 | 1.54 | 0.26 | 39.1 |
| 4/18/2015 16:24:53 | 48.88 | 45.68 | 718 | 1.75 | 0.26 | 39.3 |
| 4/18/2015 16:25:18 | 49.21 | 46.01 | 82 | 1.76 | 1.49 | 4.5 |
| 4/18/2015 16:25:19 | 49.54 | 46.34 | 98 | 1.66 | 1.16 | 5.4 |
| 4/18/2015 16:25:25 | 49.87 | 46.67 | 40 | 1.79 | 1.19 | 2.2 |
| 4/18/2015 16:25:33 | 50.20 | 47.00 | 50 | 1.77 | 1.09 | 2.7 |
| 4/18/2015 16:25:38 | 50.53 | 47.33 | 64 | 1.76 | 1.17 | 3.5 |
| 4/18/2015 16:25:46 | 50.85 | 47.65 | 46 | 1.82 | 1.22 | 2.5 |
| 4/18/2015 16:25:51 | 51.12 | 47.92 | 58 | 1.81 | 1.13 | 3.2 |

## D45 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 16:23:01

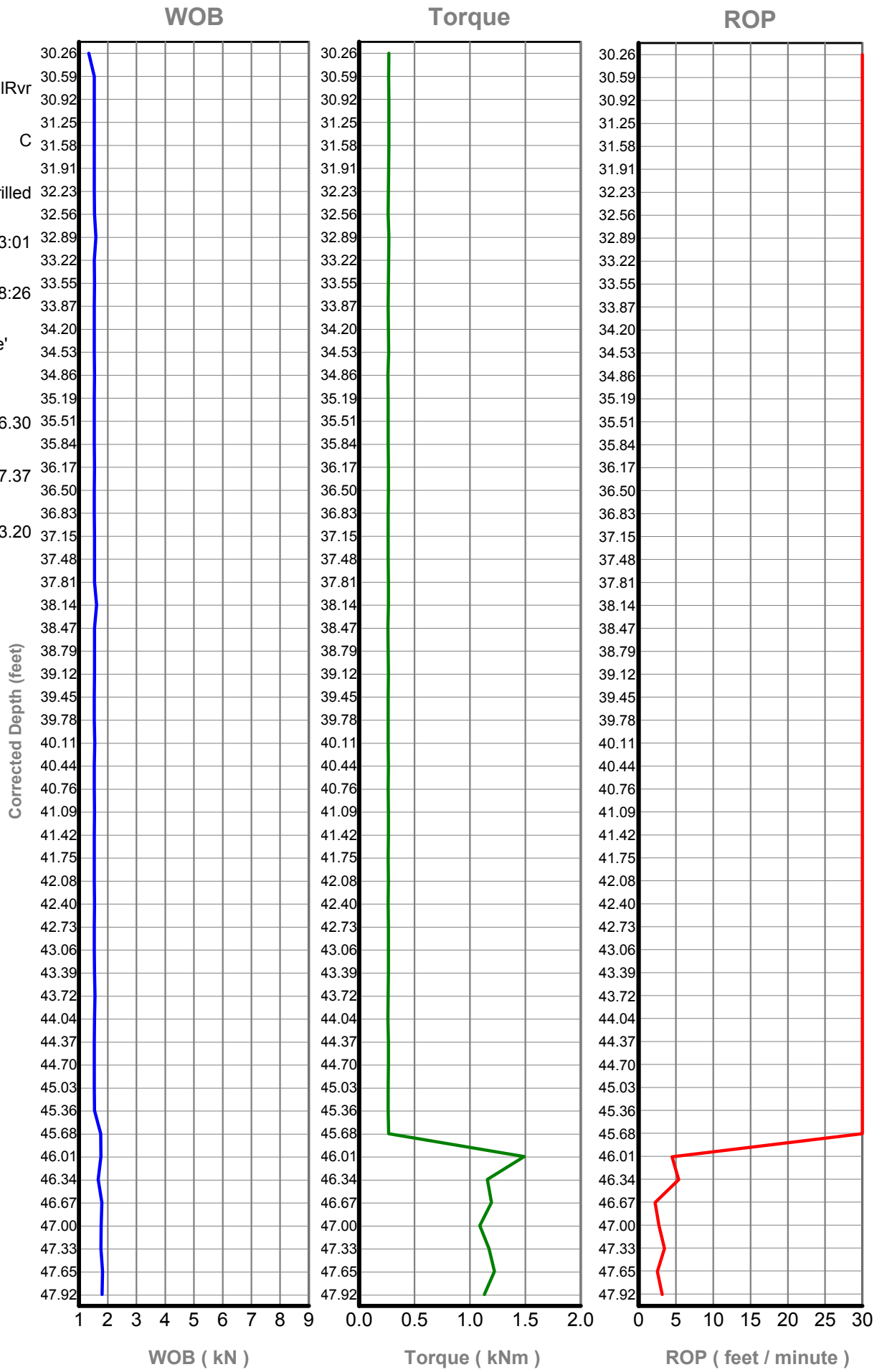
**End Date:**
4/18/2015 16:28:26

**Operator Note:**
'3.2 3.5 c Auto Complete'

**Northing:**
369,936.30

**Easting:**
255,647.37

**Tide (feet):**
3.20



## Hole: D46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:45:42 | 30.51 | 30.11 | 1,100 | 0.29 | 0.33 | 60.2 |
| 4/18/2015 8:45:43 | 30.84 | 30.44 | 1,100 | 0.29 | 0.33 | 60.2 |
| 4/18/2015 8:45:43 | 31.17 | 30.77 | 1,100 | 0.29 | 0.32 | 60.2 |
| 4/18/2015 8:45:43 | 31.50 | 31.10 | 1,093 | 0.30 | 0.32 | 59.7 |
| 4/18/2015 8:45:44 | 31.82 | 31.42 | 1,093 | 0.30 | 0.32 | 59.7 |
| 4/18/2015 8:45:44 | 32.15 | 31.75 | 1,067 | 0.29 | 0.33 | 58.4 |
| 4/18/2015 8:45:44 | 32.48 | 32.08 | 1,067 | 0.29 | 0.33 | 58.4 |
| 4/18/2015 8:45:44 | 32.81 | 32.41 | 1,076 | 0.30 | 0.33 | 58.8 |
| 4/18/2015 8:45:45 | 33.14 | 32.74 | 1,076 | 0.29 | 0.33 | 58.8 |
| 4/18/2015 8:45:45 | 33.46 | 33.06 | 1,076 | 0.29 | 0.33 | 58.8 |
| 4/18/2015 8:45:46 | 33.79 | 33.39 | 1,097 | 0.29 | 0.33 | 60.0 |
| 4/18/2015 8:45:46 | 34.12 | 33.72 | 1,063 | 0.29 | 0.33 | 58.1 |
| 4/18/2015 8:45:47 | 34.45 | 34.05 | 1,063 | 0.29 | 0.33 | 58.1 |
| 4/18/2015 8:45:47 | 34.78 | 34.38 | 1,045 | 0.29 | 0.33 | 57.2 |
| 4/18/2015 8:45:47 | 35.11 | 34.71 | 1,045 | 0.29 | 0.33 | 57.2 |
| 4/18/2015 8:45:48 | 35.43 | 35.03 | 1,045 | 0.29 | 0.33 | 57.2 |
| 4/18/2015 8:45:48 | 35.76 | 35.36 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/18/2015 8:45:48 | 36.09 | 35.69 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/18/2015 8:45:48 | 36.42 | 36.02 | 1,082 | 0.29 | 0.33 | 59.2 |
| 4/18/2015 8:45:49 | 36.75 | 36.35 | 1,067 | 0.29 | 0.32 | 58.4 |
| 4/18/2015 8:45:49 | 37.07 | 36.67 | 1,067 | 0.29 | 0.32 | 58.4 |
| 4/18/2015 8:45:49 | 37.40 | 37.00 | 1,087 | 0.30 | 0.33 | 59.5 |
| 4/18/2015 8:45:50 | 37.73 | 37.33 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/18/2015 8:45:50 | 38.06 | 37.66 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/18/2015 8:45:50 | 38.39 | 37.99 | 1,052 | 0.29 | 0.33 | 57.5 |
| 4/18/2015 8:45:51 | 38.71 | 38.31 | 1,052 | 0.30 | 0.33 | 57.5 |
| 4/18/2015 8:45:51 | 39.04 | 38.64 | 1,052 | 0.30 | 0.33 | 57.5 |
| 4/18/2015 8:45:51 | 39.37 | 38.97 | 1,069 | 0.29 | 0.34 | 58.5 |
| 4/18/2015 8:45:52 | 39.70 | 39.30 | 1,069 | 0.29 | 0.34 | 58.5 |
| 4/18/2015 8:45:52 | 40.03 | 39.63 | 1,062 | 0.30 | 0.33 | 58.1 |
| 4/18/2015 8:45:52 | 40.35 | 39.95 | 1,062 | 0.29 | 0.33 | 58.1 |
| 4/18/2015 8:45:53 | 40.68 | 40.28 | 1,062 | 0.29 | 0.33 | 58.1 |
| 4/18/2015 8:45:53 | 41.01 | 40.61 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/18/2015 8:45:53 | 41.34 | 40.94 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:45:54 | 41.67 | 41.27 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:45:54 | 41.99 | 41.59 | 1,095 | 0.29 | 0.33 | 59.9 |
| 4/18/2015 8:45:55 | 42.32 | 41.92 | 1,095 | 0.29 | 0.33 | 59.9 |
| 4/18/2015 8:45:54 | 42.65 | 42.25 | 1,055 | 0.30 | 0.33 | 57.7 |
| 4/18/2015 8:45:55 | 42.98 | 42.58 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:45:56 | 43.31 | 42.91 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:45:55 | 43.64 | 43.24 | 1,053 | 0.29 | 0.33 | 57.6 |
| 4/18/2015 8:45:56 | 43.96 | 43.56 | 1,069 | 0.29 | 0.35 | 58.5 |
| 4/18/2015 8:45:56 | 44.29 | 43.89 | 1,069 | 0.29 | 0.35 | 58.5 |
| 4/18/2015 8:45:57 | 44.62 | 44.22 | 1,076 | 0.29 | 0.33 | 58.9 |
| 4/18/2015 8:45:57 | 44.95 | 44.55 | 1,069 | 0.26 | 0.42 | 58.4 |
| 4/18/2015 8:46:11 | 45.28 | 44.88 | 79 | 2.99 | 0.36 | 4.3 |
| 4/18/2015 8:46:11 | 45.60 | 45.20 | 231 | 2.84 | 0.38 | 12.6 |
| 4/18/2015 8:46:12 | 45.93 | 45.53 | 310 | 4.19 | 0.40 | 17.0 |
| 4/18/2015 8:46:25 | 46.26 | 45.86 | 0 | 2.89 | 0.42 | 0.0 |
| 4/18/2015 8:46:29 | 46.59 | 46.19 | 73 | 3.57 | 0.41 | 4.0 |
| 4/18/2015 8:46:31 | 46.92 | 46.52 | 156 | 3.16 | 0.39 | 8.5 |
| 4/18/2015 8:46:34 | 47.24 | 46.84 | 96 | 3.34 | 0.42 | 5.3 |
| 4/18/2015 8:46:39 | 47.57 | 47.17 | 71 | 2.80 | 0.41 | 3.9 |
| 4/18/2015 8:46:44 | 47.90 | 47.50 | 78 | 3.09 | 0.42 | 4.3 |
| 4/18/2015 8:46:51 | 48.23 | 47.83 | 47 | 3.41 | 0.41 | 2.6 |
| 4/18/2015 8:46:59 | 48.56 | 48.16 | 46 | 3.67 | 0.41 | 2.5 |
| 4/18/2015 8:47:06 | 48.88 | 48.48 | 46 | 3.18 | 0.41 | 2.5 |
| 4/18/2015 8:47:13 | 49.19 | 48.79 | 43 | 3.62 | 0.42 | 2.4 |

## D46 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:44:10

**End Date:**
4/18/2015 8:48:39

**Operator Note:**
'0.4 0.1 b Rock @ 48"

**Northing:**
369,975.26

**Easting:**
255,715.39

**Tide (feet):**
0.40



## Hole: D47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:40:42 | 30.51 | 30.11 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/18/2015 8:40:43 | 30.84 | 30.44 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/18/2015 8:40:43 | 31.17 | 30.77 | 1,108 | 0.29 | 0.32 | 60.6 |
| 4/18/2015 8:40:43 | 31.50 | 31.10 | 1,097 | 0.29 | 0.32 | 60.0 |
| 4/18/2015 8:40:44 | 31.82 | 31.42 | 1,097 | 0.29 | 0.32 | 60.0 |
| 4/18/2015 8:40:44 | 32.15 | 31.75 | 1,097 | 0.29 | 0.32 | 60.0 |
| 4/18/2015 8:40:45 | 32.48 | 32.08 | 1,097 | 0.29 | 0.32 | 60.0 |
| 4/18/2015 8:40:45 | 32.81 | 32.41 | 1,077 | 0.29 | 0.34 | 58.9 |
| 4/18/2015 8:40:45 | 33.14 | 32.74 | 1,074 | 0.29 | 0.33 | 58.7 |
| 4/18/2015 8:40:46 | 33.46 | 33.06 | 1,074 | 0.29 | 0.33 | 58.7 |
| 4/18/2015 8:40:46 | 33.79 | 33.39 | 1,074 | 0.29 | 0.33 | 58.7 |
| 4/18/2015 8:40:46 | 34.12 | 33.72 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/18/2015 8:40:47 | 34.45 | 34.05 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/18/2015 8:40:47 | 34.78 | 34.38 | 1,072 | 0.29 | 0.32 | 58.6 |
| 4/18/2015 8:40:47 | 35.11 | 34.71 | 1,072 | 0.29 | 0.32 | 58.6 |
| 4/18/2015 8:40:47 | 35.43 | 35.03 | 1,081 | 0.29 | 0.33 | 59.1 |
| 4/18/2015 8:40:48 | 35.76 | 35.36 | 1,094 | 0.29 | 0.33 | 59.8 |
| 4/18/2015 8:40:48 | 36.09 | 35.69 | 1,094 | 0.29 | 0.33 | 59.8 |
| 4/18/2015 8:40:48 | 36.42 | 36.02 | 1,094 | 0.33 | 0.28 | 59.8 |
| 4/18/2015 8:40:49 | 36.75 | 36.35 | 1,087 | 0.29 | 0.32 | 59.5 |
| 4/18/2015 8:40:49 | 37.07 | 36.67 | 1,087 | 0.29 | 0.32 | 59.5 |
| 4/18/2015 8:40:49 | 37.40 | 37.00 | 1,087 | 0.29 | 0.33 | 59.4 |
| 4/18/2015 8:40:50 | 37.73 | 37.33 | 1,087 | 0.29 | 0.33 | 59.4 |
| 4/18/2015 8:40:50 | 38.06 | 37.66 | 1,087 | 0.34 | 0.33 | 59.4 |
| 4/18/2015 8:40:50 | 38.39 | 37.99 | 1,087 | 0.29 | 0.33 | 59.5 |
| 4/18/2015 8:40:51 | 38.71 | 38.31 | 1,087 | 0.29 | 0.33 | 59.5 |
| 4/18/2015 8:40:51 | 39.04 | 38.64 | 1,087 | 0.29 | 0.32 | 59.5 |
| 4/18/2015 8:40:51 | 39.37 | 38.97 | 1,112 | 0.29 | 0.32 | 60.8 |
| 4/18/2015 8:40:52 | 39.70 | 39.30 | 1,112 | 0.29 | 0.32 | 60.8 |
| 4/18/2015 8:40:52 | 40.03 | 39.63 | 1,099 | 0.29 | 0.34 | 60.1 |
| 4/18/2015 8:40:52 | 40.35 | 39.95 | 1,078 | 0.29 | 0.33 | 59.0 |
| 4/18/2015 8:40:53 | 40.68 | 40.28 | 1,078 | 0.29 | 0.33 | 59.0 |
| 4/18/2015 8:40:53 | 41.01 | 40.61 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:40:53 | 41.34 | 40.94 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 8:40:53 | 41.67 | 41.27 | 1,069 | 0.29 | 0.33 | 58.5 |
| 4/18/2015 8:40:54 | 41.99 | 41.59 | 1,088 | 0.29 | 0.33 | 59.5 |
| 4/18/2015 8:40:55 | 42.32 | 41.92 | 1,088 | 0.29 | 0.33 | 59.5 |
| 4/18/2015 8:40:55 | 42.65 | 42.25 | 1,064 | 0.29 | 0.33 | 58.2 |
| 4/18/2015 8:40:55 | 42.98 | 42.58 | 1,041 | 0.29 | 0.33 | 56.9 |
| 4/18/2015 8:40:55 | 43.31 | 42.91 | 1,041 | 0.29 | 0.33 | 56.9 |
| 4/18/2015 8:40:56 | 43.64 | 43.24 | 1,041 | 0.32 | 0.33 | 56.9 |
| 4/18/2015 8:40:56 | 43.96 | 43.56 | 1,041 | 0.32 | 0.33 | 56.9 |
| 4/18/2015 8:40:56 | 44.29 | 43.89 | 1,087 | 0.29 | 0.34 | 59.4 |
| 4/18/2015 8:40:57 | 44.62 | 44.22 | 1,086 | 0.29 | 0.33 | 59.4 |
| 4/18/2015 8:40:57 | 44.95 | 44.55 | 1,086 | 0.29 | 0.33 | 59.4 |
| 4/18/2015 8:40:57 | 45.28 | 44.88 | 1,075 | 0.29 | 0.33 | 58.8 |
| 4/18/2015 8:40:58 | 45.60 | 45.20 | 1,080 | 0.29 | 0.32 | 59.1 |
| 4/18/2015 8:40:58 | 45.93 | 45.53 | 1,080 | 0.29 | 0.32 | 59.1 |
| 4/18/2015 8:40:58 | 46.26 | 45.86 | 1,107 | 0.29 | 0.33 | 60.5 |
| 4/18/2015 8:40:59 | 46.59 | 46.19 | 1,084 | 0.30 | 0.35 | 59.3 |
| 4/18/2015 8:40:59 | 46.92 | 46.52 | 1,084 | 0.30 | 0.35 | 59.3 |
| 4/18/2015 8:40:59 | 47.24 | 46.84 | 1,083 | 0.29 | 0.33 | 59.2 |
| 4/18/2015 8:41:00 | 47.57 | 47.17 | 1,083 | 0.29 | 0.33 | 59.2 |
| 4/18/2015 8:41:00 | 47.90 | 47.50 | 1,090 | 0.29 | 0.33 | 59.6 |
| 4/18/2015 8:41:00 | 48.23 | 47.83 | 1,087 | 0.27 | 0.36 | 59.4 |
| 4/18/2015 8:41:01 | 48.56 | 48.16 | 1,010 | 0.26 | 0.41 | 55.2 |
| 4/18/2015 8:41:10 | 48.88 | 48.48 | 11 | 3.71 | 0.37 | 0.6 |
| 4/18/2015 8:41:16 | 49.21 | 48.81 | 29 | 3.52 | 0.41 | 1.6 |
| 4/18/2015 8:41:21 | 49.54 | 49.14 | 58 | 3.71 | 0.40 | 3.2 |
| 4/18/2015 8:41:28 | 49.87 | 49.47 | 55 | 3.73 | 0.42 | 3.0 |
| 4/18/2015 8:41:35 | 50.20 | 49.80 | 49 | 3.23 | 0.41 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 8:41:40 | 50.53 | 50.13 | 104 | 2.82 | 0.41 | 5.7 |
| 4/18/2015 | 8:41:48 | 50.85 | 50.45 | 43 | 3.59 | 0.43 | 2.4 |
| 4/18/2015 | 8:41:56 | 51.18 | 50.78 | 46 | 3.67 | 0.41 | 2.5 |
| 4/18/2015 | 8:42:04 | 51.51 | 51.11 | 44 | 3.44 | 0.42 | 2.4 |
| 4/18/2015 | 8:42:07 | 51.64 | 51.24 | 40 | 3.18 | 0.42 | 2.2 |

## D47 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:39:04

**End Date:**
4/18/2015 8:43:21

**Operator Note:**
'0.4 0.2 b Auto Complete'

**Northing:**
369,999.58

**Easting:**
255,769.14

**Tide (feet):**
0.40



## Hole: D48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:42:46 | 30.51 | 30.11 | 624 | 2.13 | 0.26 | 34.1 |
| 4/18/2015 8:42:47 | 30.84 | 30.44 | 624 | 2.13 | 0.27 | 34.1 |
| 4/18/2015 8:42:47 | 31.17 | 30.77 | 620 | 2.12 | 0.27 | 33.9 |
| 4/18/2015 8:42:48 | 31.50 | 31.10 | 617 | 2.21 | 0.27 | 33.8 |
| 4/18/2015 8:42:48 | 31.82 | 31.42 | 624 | 2.17 | 0.26 | 34.1 |
| 4/18/2015 8:42:49 | 32.15 | 31.75 | 628 | 2.18 | 0.26 | 34.3 |
| 4/18/2015 8:42:49 | 32.48 | 32.08 | 628 | 2.22 | 0.26 | 34.4 |
| 4/18/2015 8:42:50 | 32.81 | 32.41 | 632 | 2.17 | 0.26 | 34.6 |
| 4/18/2015 8:42:50 | 33.14 | 32.74 | 629 | 2.18 | 0.26 | 34.4 |
| 4/18/2015 8:42:51 | 33.46 | 33.06 | 625 | 2.18 | 0.26 | 34.2 |
| 4/18/2015 8:42:51 | 33.79 | 33.39 | 628 | 2.19 | 0.27 | 34.4 |
| 4/18/2015 8:42:52 | 34.12 | 33.72 | 617 | 2.19 | 0.26 | 33.7 |
| 4/18/2015 8:42:53 | 34.45 | 34.05 | 617 | 2.19 | 0.26 | 33.7 |
| 4/18/2015 8:42:54 | 34.78 | 34.38 | 626 | 2.19 | 0.26 | 34.2 |
| 4/18/2015 8:42:54 | 35.11 | 34.71 | 623 | 2.19 | 0.26 | 34.1 |
| 4/18/2015 8:42:55 | 35.43 | 35.03 | 619 | 2.19 | 0.26 | 33.8 |
| 4/18/2015 8:42:55 | 35.76 | 35.36 | 625 | 2.18 | 0.26 | 34.2 |
| 4/18/2015 8:42:56 | 36.09 | 35.69 | 632 | 2.18 | 0.26 | 34.6 |
| 4/18/2015 8:42:56 | 36.42 | 36.02 | 630 | 2.19 | 0.27 | 34.5 |
| 4/18/2015 8:42:57 | 36.75 | 36.35 | 626 | 2.19 | 0.27 | 34.3 |
| 4/18/2015 8:42:57 | 37.07 | 36.67 | 634 | 2.18 | 0.27 | 34.7 |
| 4/18/2015 8:42:58 | 37.40 | 37.00 | 630 | 2.17 | 0.27 | 34.5 |
| 4/18/2015 8:42:59 | 37.73 | 37.33 | 630 | 2.18 | 0.27 | 34.5 |
| 4/18/2015 8:42:59 | 38.06 | 37.66 | 633 | 2.18 | 0.27 | 34.6 |
| 4/18/2015 8:43:00 | 38.39 | 37.99 | 630 | 2.17 | 0.27 | 34.5 |
| 4/18/2015 8:43:00 | 38.71 | 38.31 | 630 | 2.17 | 0.27 | 34.5 |
| 4/18/2015 8:43:01 | 39.04 | 38.64 | 624 | 2.16 | 0.27 | 34.1 |
| 4/18/2015 8:43:01 | 39.37 | 38.97 | 630 | 2.14 | 0.28 | 34.5 |
| 4/18/2015 8:43:02 | 39.70 | 39.30 | 627 | 2.12 | 0.28 | 34.3 |
| 4/18/2015 8:43:02 | 40.03 | 39.63 | 630 | 2.12 | 0.27 | 34.5 |
| 4/18/2015 8:43:03 | 40.35 | 39.95 | 627 | 2.12 | 0.27 | 34.3 |
| 4/18/2015 8:43:04 | 40.68 | 40.28 | 630 | 2.12 | 0.27 | 34.5 |
| 4/18/2015 8:43:04 | 41.01 | 40.61 | 627 | 2.13 | 0.28 | 34.3 |
| 4/18/2015 8:43:05 | 41.34 | 40.94 | 621 | 2.09 | 0.28 | 33.9 |
| 4/18/2015 8:43:06 | 41.67 | 41.27 | 627 | 2.13 | 0.27 | 34.3 |
| 4/18/2015 8:43:06 | 41.99 | 41.59 | 622 | 2.12 | 0.27 | 34.0 |
| 4/18/2015 8:43:07 | 42.32 | 41.92 | 622 | 2.12 | 0.27 | 34.0 |
| 4/18/2015 8:43:07 | 42.65 | 42.25 | 622 | 2.14 | 0.27 | 34.0 |
| 4/18/2015 8:43:08 | 42.98 | 42.58 | 628 | 2.13 | 0.27 | 34.3 |
| 4/18/2015 8:43:08 | 43.31 | 42.91 | 619 | 2.12 | 0.28 | 33.8 |
| 4/18/2015 8:43:09 | 43.64 | 43.24 | 622 | 2.13 | 0.27 | 34.0 |
| 4/18/2015 8:43:09 | 43.96 | 43.56 | 618 | 2.12 | 0.27 | 33.8 |
| 4/18/2015 8:43:10 | 44.29 | 43.89 | 615 | 2.12 | 0.27 | 33.6 |
| 4/18/2015 8:43:11 | 44.62 | 44.22 | 622 | 2.13 | 0.27 | 34.0 |
| 4/18/2015 8:43:11 | 44.95 | 44.55 | 615 | 2.12 | 0.27 | 33.6 |
| 4/18/2015 8:43:12 | 45.28 | 44.88 | 615 | 2.12 | 0.27 | 33.6 |
| 4/18/2015 8:43:12 | 45.60 | 45.20 | 618 | 2.12 | 0.27 | 33.8 |
| 4/18/2015 8:43:13 | 45.93 | 45.53 | 619 | 2.12 | 0.27 | 33.9 |
| 4/18/2015 8:43:14 | 46.26 | 45.86 | 619 | 2.11 | 0.26 | 33.9 |
| 4/18/2015 8:43:14 | 46.59 | 46.19 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 8:43:15 | 46.92 | 46.52 | 626 | 2.12 | 0.26 | 34.2 |
| 4/18/2015 8:43:15 | 47.24 | 46.84 | 623 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 8:43:16 | 47.57 | 47.17 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 8:43:17 | 47.90 | 47.50 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 8:43:17 | 48.23 | 47.83 | 619 | 2.12 | 0.27 | 33.8 |
| 4/18/2015 8:43:18 | 48.56 | 48.16 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 8:43:18 | 48.88 | 48.48 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 8:43:19 | 49.21 | 48.81 | 619 | 2.12 | 0.35 | 33.8 |
| 4/18/2015 8:43:19 | 49.54 | 49.14 | 614 | 2.14 | 0.26 | 33.6 |
| 4/18/2015 8:43:20 | 49.87 | 49.47 | 616 | 2.11 | 0.27 | 33.7 |
| 4/18/2015 8:43:20 | 50.20 | 49.80 | 617 | 2.13 | 0.26 | 33.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 8:43:21 | 50.53 | 50.13 | 614 | 2.14 | 0.26 | 33.6 |
| 4/18/2015 | 8:43:22 | 50.85 | 50.45 | 613 | 2.14 | 0.26 | 33.5 |
| 4/18/2015 | 8:43:22 | 51.18 | 50.78 | 602 | 2.13 | 0.27 | 32.9 |
| 4/18/2015 | 8:43:23 | 51.51 | 51.11 | 587 | 2.18 | 0.27 | 32.1 |
| 4/18/2015 | 8:43:24 | 51.84 | 51.44 | 566 | 2.14 | 0.26 | 30.9 |
| 4/18/2015 | 8:43:25 | 52.17 | 51.77 | 546 | 2.14 | 0.27 | 29.9 |
| 4/18/2015 | 8:43:25 | 52.49 | 52.09 | 541 | 2.15 | 0.27 | 29.6 |
| 4/18/2015 | 8:43:26 | 52.82 | 52.42 | 535 | 2.15 | 0.26 | 29.2 |
| 4/18/2015 | 8:43:27 | 53.15 | 52.75 | 517 | 2.16 | 0.26 | 28.3 |
| 4/18/2015 | 8:43:27 | 53.48 | 53.08 | 512 | 2.16 | 0.26 | 28.0 |
| 4/18/2015 | 8:43:28 | 53.81 | 53.41 | 486 | 2.18 | 0.26 | 26.6 |
| 4/18/2015 | 8:43:29 | 54.13 | 53.73 | 471 | 2.19 | 0.26 | 25.7 |
| 4/18/2015 | 8:43:30 | 54.46 | 54.06 | 412 | 2.19 | 0.26 | 22.5 |
| 4/18/2015 | 8:43:31 | 54.79 | 54.39 | 400 | 2.18 | 0.26 | 21.9 |
| 4/18/2015 | 8:43:32 | 55.12 | 54.72 | 389 | 2.17 | 0.26 | 21.3 |
| 4/18/2015 | 8:43:32 | 55.45 | 55.05 | 403 | 2.17 | 0.26 | 22.0 |
| 4/18/2015 | 8:43:33 | 55.77 | 55.37 | 427 | 2.17 | 0.25 | 23.4 |
| 4/18/2015 | 8:43:34 | 56.10 | 55.70 | 430 | 2.17 | 0.26 | 23.5 |
| 4/18/2015 | 8:43:35 | 56.20 | 55.80 | 445 | 1.89 | 0.26 | 24.3 |

## D48 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 8:41:17

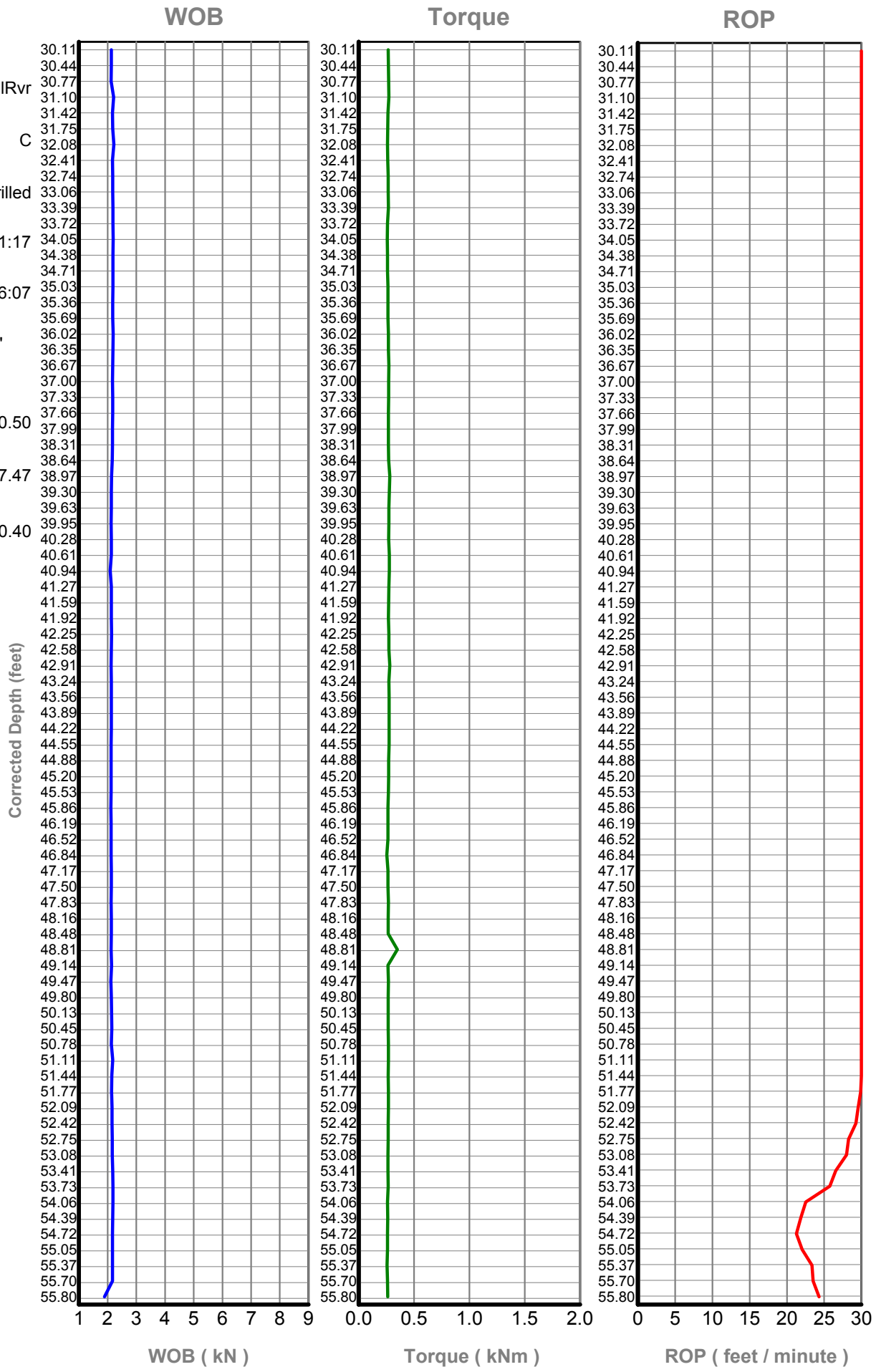
**End Date:**
4/18/2015 8:46:07

**Operator Note:**
'0.4 0.1c Auto Complete'

**Northing:**
370,030.50

**Easting:**
255,837.47

**Tide (feet):**
0.40



## Hole: D49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:47:32 | 33.79 | 30.09 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:33 | 34.12 | 30.42 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:33 | 34.45 | 30.75 | 1,145 | 0.24 | 0.37 | 62.6 |
| 4/19/2015 4:47:33 | 34.78 | 31.08 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/19/2015 4:47:34 | 35.11 | 31.41 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/19/2015 4:47:34 | 35.43 | 31.73 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/19/2015 4:47:34 | 35.76 | 32.06 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/19/2015 4:47:34 | 36.09 | 32.39 | 1,152 | 0.24 | 0.37 | 63.0 |
| 4/19/2015 4:47:35 | 36.42 | 32.72 | 1,155 | 0.24 | 0.37 | 63.2 |
| 4/19/2015 4:47:35 | 36.75 | 33.05 | 1,155 | 0.24 | 0.37 | 63.2 |
| 4/19/2015 4:47:35 | 37.07 | 33.37 | 1,156 | 0.24 | 0.37 | 63.2 |
| 4/19/2015 4:47:36 | 37.40 | 33.70 | 1,156 | 0.24 | 0.37 | 63.2 |
| 4/19/2015 4:47:36 | 37.73 | 34.03 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/19/2015 4:47:36 | 38.06 | 34.36 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:37 | 38.39 | 34.69 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:37 | 38.71 | 35.01 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:37 | 39.04 | 35.34 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/19/2015 4:47:37 | 39.37 | 35.67 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/19/2015 4:47:38 | 39.70 | 36.00 | 1,140 | 0.24 | 0.37 | 62.4 |
| 4/19/2015 4:47:38 | 40.03 | 36.33 | 1,140 | 0.24 | 0.37 | 62.4 |
| 4/19/2015 4:47:38 | 40.35 | 36.65 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/19/2015 4:47:39 | 40.68 | 36.98 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/19/2015 4:47:39 | 41.01 | 37.31 | 1,149 | 0.24 | 0.37 | 62.8 |
| 4/19/2015 4:47:39 | 41.34 | 37.64 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/19/2015 4:47:40 | 41.67 | 37.97 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/19/2015 4:47:40 | 41.99 | 38.29 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/19/2015 4:47:41 | 42.32 | 38.62 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/19/2015 4:47:41 | 42.65 | 38.95 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/19/2015 4:47:41 | 42.98 | 39.28 | 1,131 | 0.24 | 0.37 | 61.9 |
| 4/19/2015 4:47:42 | 43.31 | 39.61 | 1,131 | 0.24 | 0.37 | 61.9 |
| 4/19/2015 4:47:42 | 43.64 | 39.94 | 1,126 | 0.24 | 0.37 | 61.6 |
| 4/19/2015 4:48:06 | 43.96 | 40.26 | 0 | 0.24 | 0.37 | 0.0 |
| 4/19/2015 4:48:06 | 44.29 | 40.59 | 49 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 4:48:07 | 44.62 | 40.92 | 260 | 0.24 | 0.37 | 14.2 |
| 4/19/2015 4:48:07 | 44.95 | 41.25 | 260 | 0.24 | 0.37 | 14.2 |
| 4/19/2015 4:48:07 | 45.28 | 41.58 | 472 | 0.24 | 0.37 | 25.8 |
| 4/19/2015 4:48:08 | 45.60 | 41.90 | 678 | 0.24 | 0.37 | 37.1 |
| 4/19/2015 4:48:08 | 45.93 | 42.23 | 678 | 0.24 | 0.37 | 37.1 |
| 4/19/2015 4:48:08 | 46.26 | 42.56 | 883 | 0.24 | 0.37 | 48.3 |
| 4/19/2015 4:48:09 | 46.59 | 42.89 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 4:48:09 | 46.92 | 43.22 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 4:48:09 | 47.24 | 43.54 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 4:48:10 | 47.57 | 43.87 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:48:10 | 47.90 | 44.20 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 4:48:10 | 48.23 | 44.53 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 4:48:11 | 48.56 | 44.86 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 4:48:11 | 48.88 | 45.18 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 4:48:11 | 49.21 | 45.51 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 4:48:12 | 49.54 | 45.84 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 4:48:12 | 49.87 | 46.17 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 4:48:12 | 50.20 | 46.50 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 4:48:13 | 50.53 | 46.83 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 4:48:13 | 50.85 | 47.15 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 4:48:13 | 51.18 | 47.48 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 4:48:14 | 51.51 | 47.81 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 4:48:14 | 51.84 | 48.14 | 1,056 | 0.24 | 0.37 | 57.7 |
| 4/19/2015 4:48:37 | 52.17 | 48.47 | 0 | 0.24 | 0.37 | 0.0 |
| 4/19/2015 4:48:38 | 52.49 | 48.79 | 139 | 0.24 | 0.37 | 7.6 |
| 4/19/2015 4:48:38 | 52.82 | 49.12 | 251 | 0.24 | 0.37 | 13.7 |
| 4/19/2015 4:48:39 | 53.15 | 49.45 | 336 | 0.24 | 0.37 | 18.4 |
| 4/19/2015 4:48:40 | 53.48 | 49.78 | 489 | 0.24 | 0.37 | 26.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 4:48:41 | 53.81 | 50.11 | 532 | 0.24 | 0.37 | 29.1 |
| 4/19/2015 | 4:48:41 | 54.13 | 50.43 | 538 | 0.24 | 0.37 | 29.4 |
| 4/19/2015 | 4:48:42 | 54.46 | 50.76 | 574 | 0.24 | 0.37 | 31.4 |
| 4/19/2015 | 4:48:42 | 54.79 | 51.09 | 590 | 0.24 | 0.37 | 32.2 |
| 4/19/2015 | 4:48:43 | 55.12 | 51.42 | 602 | 0.24 | 0.37 | 32.9 |
| 4/19/2015 | 4:48:43 | 55.45 | 51.75 | 599 | 0.24 | 0.37 | 32.7 |
| 4/19/2015 | 4:48:44 | 55.77 | 52.07 | 588 | 0.24 | 0.37 | 32.2 |
| 4/19/2015 | 4:48:45 | 56.10 | 52.40 | 565 | 0.24 | 0.37 | 30.9 |
| 4/19/2015 | 4:48:45 | 56.43 | 52.73 | 573 | 0.24 | 0.37 | 31.3 |
| 4/19/2015 | 4:48:46 | 56.76 | 53.06 | 585 | 0.24 | 0.37 | 32.0 |
| 4/19/2015 | 4:48:46 | 57.09 | 53.39 | 588 | 0.24 | 0.37 | 32.1 |
| 4/19/2015 | 4:48:47 | 57.41 | 53.71 | 608 | 0.24 | 0.37 | 33.3 |
| 4/19/2015 | 4:48:47 | 57.74 | 54.04 | 654 | 0.24 | 0.37 | 35.8 |
| 4/19/2015 | 4:48:48 | 58.07 | 54.37 | 640 | 0.24 | 0.37 | 35.0 |
| 4/19/2015 | 4:48:49 | 58.40 | 54.70 | 630 | 0.24 | 0.37 | 34.4 |
| 4/19/2015 | 4:48:49 | 58.73 | 55.03 | 628 | 0.24 | 0.37 | 34.3 |
| 4/19/2015 | 4:48:49 | 58.78 | 55.08 | 628 | 0.24 | 0.37 | 34.3 |

## D49 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:41:52

**End Date:**
4/19/2015 4:50:13

**Operator Note:**
'3.7 3.6 b Auto Complete'

**Northing:**
369,609.59

**Easting:**
255,120.53

**Tide (feet):**
3.70



## Hole: D5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:55:58 | 36.42 | 30.12 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 0:55:58 | 36.75 | 30.45 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 0:55:59 | 37.07 | 30.77 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 0:55:59 | 37.40 | 31.10 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/19/2015 0:55:59 | 37.73 | 31.43 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/19/2015 0:55:59 | 38.06 | 31.76 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 0:56:00 | 38.39 | 32.09 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 0:56:00 | 38.71 | 32.41 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 0:56:00 | 39.04 | 32.74 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/19/2015 0:56:01 | 39.37 | 33.07 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 0:56:01 | 39.70 | 33.40 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/19/2015 0:56:01 | 40.03 | 33.73 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 0:56:02 | 40.35 | 34.05 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/19/2015 0:56:02 | 40.68 | 34.38 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/19/2015 0:56:02 | 41.01 | 34.71 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 0:56:03 | 41.34 | 35.04 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 0:56:41 | 41.67 | 35.37 | 15 | 0.24 | 0.37 | 0.8 |
| 4/19/2015 0:56:42 | 41.99 | 35.69 | 103 | 0.24 | 0.37 | 5.6 |
| 4/19/2015 0:56:43 | 42.32 | 36.02 | 329 | 0.24 | 0.37 | 18.0 |
| 4/19/2015 0:56:43 | 42.65 | 36.35 | 423 | 0.24 | 0.37 | 23.1 |
| 4/19/2015 0:56:44 | 42.98 | 36.68 | 485 | 0.24 | 0.37 | 26.5 |
| 4/19/2015 0:56:49 | 43.31 | 37.01 | 67 | 0.24 | 0.37 | 3.7 |
| 4/19/2015 0:56:56 | 43.64 | 37.34 | 62 | 0.24 | 0.37 | 3.4 |
| 4/19/2015 0:57:02 | 43.96 | 37.66 | 49 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 0:57:10 | 44.29 | 37.99 | 52 | 0.24 | 0.37 | 2.8 |
| 4/19/2015 0:57:16 | 44.62 | 38.32 | 46 | 0.24 | 0.37 | 2.5 |
| 4/19/2015 0:57:23 | 44.95 | 38.65 | 67 | 0.24 | 0.37 | 3.6 |
| 4/19/2015 0:57:30 | 45.28 | 38.98 | 49 | 0.24 | 0.37 | 2.7 |
| 4/19/2015 0:58:13 | 45.48 | 39.18 | 0 | 0.24 | 0.37 | 0.0 |

## D5 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 0:53:56

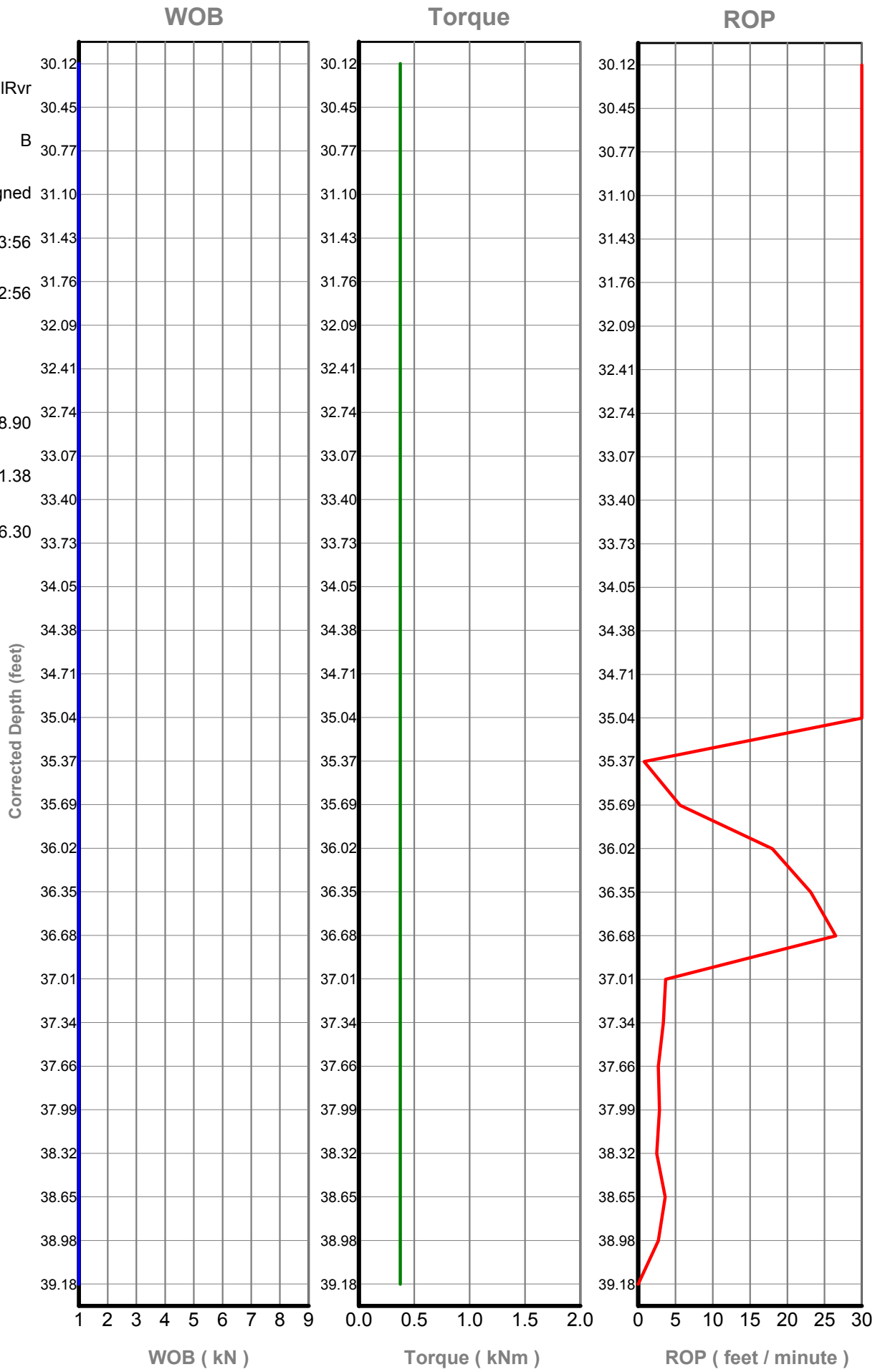
**End Date:**
4/19/2015 1:12:56

**Operator Note:**
'6.3 6,47 b Auto Complete'

**Northing:**
370,018.90

**Easting:**
255,271.38

**Tide (feet):**
6.30



## Hole: D50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:53:59 | 33.46 | 30.06 | 616 | 1.57 | 0.14 | 33.7 |
| 4/19/2015 4:53:59 | 33.79 | 30.39 | 610 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:00 | 34.12 | 30.72 | 610 | 1.56 | 0.14 | 33.4 |
| 4/19/2015 4:54:00 | 34.45 | 31.05 | 610 | 1.66 | 0.14 | 33.4 |
| 4/19/2015 4:54:01 | 34.78 | 31.38 | 603 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:01 | 35.11 | 31.71 | 603 | 1.55 | 0.14 | 33.0 |
| 4/19/2015 4:54:02 | 35.43 | 32.03 | 604 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:02 | 35.76 | 32.36 | 604 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:03 | 36.09 | 32.69 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:04 | 36.42 | 33.02 | 617 | 1.57 | 0.14 | 33.7 |
| 4/19/2015 4:54:04 | 36.75 | 33.35 | 607 | 1.56 | 0.14 | 33.2 |
| 4/19/2015 4:54:05 | 37.07 | 33.67 | 610 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:05 | 37.40 | 34.00 | 607 | 1.56 | 0.14 | 33.2 |
| 4/19/2015 4:54:06 | 37.73 | 34.33 | 607 | 1.55 | 0.14 | 33.2 |
| 4/19/2015 4:54:06 | 38.06 | 34.66 | 604 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:07 | 38.39 | 34.99 | 613 | 1.55 | 0.14 | 33.5 |
| 4/19/2015 4:54:08 | 38.71 | 35.31 | 606 | 1.56 | 0.14 | 33.1 |
| 4/19/2015 4:54:09 | 39.04 | 35.64 | 613 | 1.56 | 0.14 | 33.5 |
| 4/19/2015 4:54:09 | 39.37 | 35.97 | 613 | 1.57 | 0.14 | 33.5 |
| 4/19/2015 4:54:10 | 39.70 | 36.30 | 594 | 1.57 | 0.14 | 32.5 |
| 4/19/2015 4:54:10 | 40.03 | 36.63 | 594 | 1.56 | 0.14 | 32.5 |
| 4/19/2015 4:54:11 | 40.35 | 36.95 | 603 | 1.56 | 0.14 | 33.0 |
| 4/19/2015 4:54:11 | 40.68 | 37.28 | 611 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:12 | 41.01 | 37.61 | 603 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:13 | 41.34 | 37.94 | 620 | 1.57 | 0.14 | 33.9 |
| 4/19/2015 4:54:13 | 41.67 | 38.27 | 613 | 1.57 | 0.14 | 33.5 |
| 4/19/2015 4:54:14 | 41.99 | 38.59 | 610 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:14 | 42.32 | 38.92 | 610 | 1.57 | 0.12 | 33.4 |
| 4/19/2015 4:54:15 | 42.65 | 39.25 | 606 | 1.57 | 0.14 | 33.1 |
| 4/19/2015 4:54:15 | 42.98 | 39.58 | 594 | 1.57 | 0.14 | 32.5 |
| 4/19/2015 4:54:16 | 43.31 | 39.91 | 594 | 1.57 | 0.14 | 32.5 |
| 4/19/2015 4:54:16 | 43.64 | 40.24 | 603 | 1.57 | 0.14 | 32.9 |
| 4/19/2015 4:54:17 | 43.96 | 40.56 | 599 | 1.55 | 0.14 | 32.7 |
| 4/19/2015 4:54:18 | 44.29 | 40.89 | 603 | 1.57 | 0.14 | 32.9 |
| 4/19/2015 4:54:19 | 44.62 | 41.22 | 619 | 1.57 | 0.14 | 33.8 |
| 4/19/2015 4:54:19 | 44.95 | 41.55 | 604 | 1.56 | 0.14 | 33.0 |
| 4/19/2015 4:54:20 | 45.28 | 41.88 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:20 | 45.60 | 42.20 | 611 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:21 | 45.93 | 42.53 | 607 | 1.56 | 0.14 | 33.2 |
| 4/19/2015 4:54:21 | 46.26 | 42.86 | 597 | 1.57 | 0.14 | 32.6 |
| 4/19/2015 4:54:22 | 46.59 | 43.19 | 608 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:23 | 46.92 | 43.52 | 604 | 1.55 | 0.14 | 33.0 |
| 4/19/2015 4:54:23 | 47.24 | 43.84 | 608 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:24 | 47.57 | 44.17 | 615 | 1.57 | 0.14 | 33.6 |
| 4/19/2015 4:54:24 | 47.90 | 44.50 | 607 | 1.62 | 0.14 | 33.2 |
| 4/19/2015 4:54:25 | 48.23 | 44.83 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:25 | 48.56 | 45.16 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:26 | 48.88 | 45.48 | 607 | 1.58 | 0.14 | 33.2 |
| 4/19/2015 4:54:27 | 49.21 | 45.81 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:27 | 49.54 | 46.14 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:28 | 49.87 | 46.47 | 607 | 1.57 | 0.14 | 33.2 |
| 4/19/2015 4:54:28 | 50.20 | 46.80 | 604 | 1.57 | 0.14 | 33.0 |
| 4/19/2015 4:54:29 | 50.53 | 47.13 | 604 | 1.55 | 0.14 | 33.0 |
| 4/19/2015 4:54:30 | 50.85 | 47.45 | 598 | 1.57 | 0.14 | 32.7 |
| 4/19/2015 4:54:30 | 51.18 | 47.78 | 598 | 1.57 | 0.14 | 32.7 |
| 4/19/2015 4:54:31 | 51.51 | 48.11 | 600 | 1.57 | 0.14 | 32.8 |
| 4/19/2015 4:54:32 | 51.84 | 48.44 | 593 | 1.57 | 0.14 | 32.4 |
| 4/19/2015 4:54:32 | 52.17 | 48.77 | 600 | 1.56 | 0.14 | 32.8 |
| 4/19/2015 4:54:33 | 52.49 | 49.09 | 611 | 1.57 | 0.14 | 33.4 |
| 4/19/2015 4:54:33 | 52.82 | 49.42 | 605 | 1.57 | 0.14 | 33.1 |
| 4/19/2015 4:54:34 | 53.15 | 49.75 | 601 | 1.57 | 0.14 | 32.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 4:54:34 | 53.48 | 50.08 | 612 | 1.56 | 0.14 | 33.4 |
| 4/19/2015 | 4:54:35 | 53.81 | 50.41 | 601 | 1.61 | 0.14 | 32.9 |
| 4/19/2015 | 4:54:36 | 54.13 | 50.73 | 587 | 1.78 | 0.14 | 32.1 |
| 4/19/2015 | 4:54:58 | 54.46 | 51.06 | 126 | 1.59 | 0.95 | 6.9 |
| 4/19/2015 | 4:54:58 | 54.79 | 51.39 | 226 | 1.60 | 0.94 | 12.4 |
| 4/19/2015 | 4:54:59 | 55.12 | 51.72 | 318 | 1.62 | 0.94 | 17.4 |
| 4/19/2015 | 4:55:00 | 55.45 | 52.05 | 486 | 1.62 | 0.97 | 26.6 |
| 4/19/2015 | 4:55:01 | 55.77 | 52.37 | 480 | 1.62 | 0.94 | 26.3 |
| 4/19/2015 | 4:55:02 | 56.10 | 52.70 | 483 | 1.69 | 0.93 | 26.4 |
| 4/19/2015 | 4:55:08 | 56.43 | 53.03 | 34 | 1.59 | 0.89 | 1.9 |
| 4/19/2015 | 4:55:09 | 56.76 | 53.36 | 126 | 1.60 | 0.97 | 6.9 |
| 4/19/2015 | 4:55:09 | 57.09 | 53.69 | 231 | 1.61 | 0.91 | 12.6 |
| 4/19/2015 | 4:55:10 | 57.41 | 54.01 | 331 | 1.62 | 0.91 | 18.1 |
| 4/19/2015 | 4:55:11 | 57.74 | 54.34 | 491 | 1.62 | 0.93 | 26.8 |
| 4/19/2015 | 4:55:12 | 58.07 | 54.67 | 493 | 1.62 | 1.00 | 27.0 |
| 4/19/2015 | 4:55:13 | 58.40 | 55.00 | 465 | 1.63 | 0.94 | 25.4 |
| 4/19/2015 | 4:55:14 | 58.73 | 55.33 | 442 | 1.76 | 0.93 | 24.2 |
| 4/19/2015 | 4:55:14 | 58.83 | 55.43 | 442 | 1.76 | 0.93 | 24.2 |

## D50 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:51:42

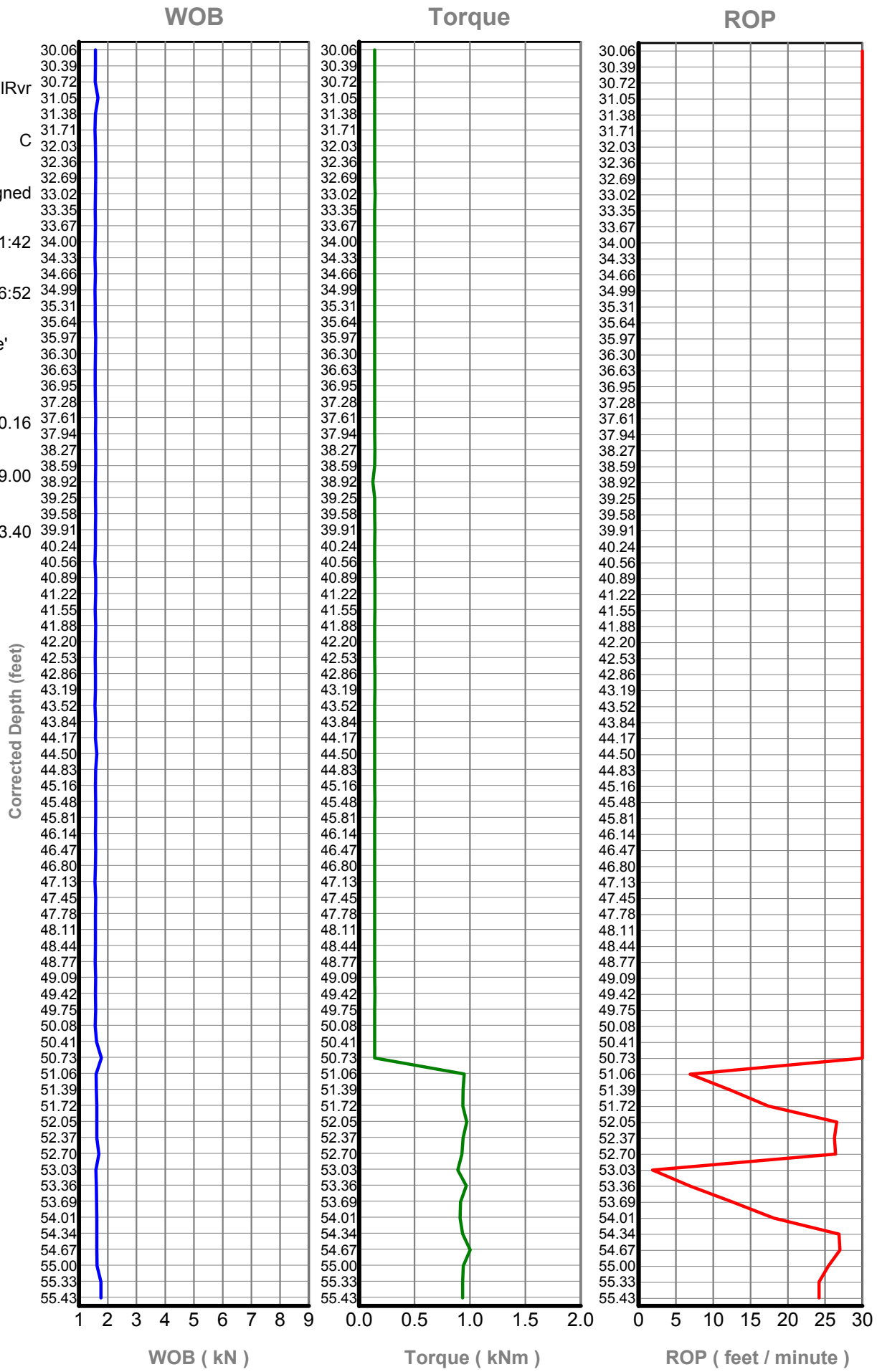
**End Date:**
4/19/2015 4:56:52

**Operator Note:**
'3.4 3.6 c Auto Complete'

**Northing:**
369,640.16

**Easting:**
255,189.00

**Tide (feet):**
3.40



## Hole: D51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 4:45:32 | 33.79 | 30.09 | 646 | 1.55 | 0.14 | 35.3 |
| 4/19/2015 4:45:32 | 34.12 | 30.42 | 643 | 1.55 | 0.14 | 35.1 |
| 4/19/2015 4:45:33 | 34.45 | 30.75 | 648 | 1.55 | 0.13 | 35.4 |
| 4/19/2015 4:45:33 | 34.78 | 31.08 | 643 | 1.56 | 0.14 | 35.2 |
| 4/19/2015 4:45:34 | 35.11 | 31.41 | 648 | 1.55 | 0.14 | 35.5 |
| 4/19/2015 4:45:34 | 35.43 | 31.73 | 651 | 1.55 | 0.13 | 35.6 |
| 4/19/2015 4:45:35 | 35.76 | 32.06 | 651 | 1.55 | 0.13 | 35.6 |
| 4/19/2015 4:45:36 | 36.09 | 32.39 | 651 | 1.53 | 0.13 | 35.6 |
| 4/19/2015 4:45:36 | 36.42 | 32.72 | 650 | 1.55 | 0.13 | 35.6 |
| 4/19/2015 4:45:37 | 36.75 | 33.05 | 648 | 1.56 | 0.13 | 35.4 |
| 4/19/2015 4:45:37 | 37.07 | 33.37 | 648 | 1.55 | 0.14 | 35.4 |
| 4/19/2015 4:45:38 | 37.40 | 33.70 | 648 | 1.55 | 0.13 | 35.4 |
| 4/19/2015 4:45:39 | 37.73 | 34.03 | 650 | 1.55 | 0.14 | 35.6 |
| 4/19/2015 4:45:39 | 38.06 | 34.36 | 650 | 1.56 | 0.14 | 35.6 |
| 4/19/2015 4:45:40 | 38.39 | 34.69 | 640 | 1.55 | 0.14 | 35.0 |
| 4/19/2015 4:45:40 | 38.71 | 35.01 | 640 | 1.53 | 0.13 | 35.0 |
| 4/19/2015 4:45:41 | 39.04 | 35.34 | 640 | 1.55 | 0.13 | 35.0 |
| 4/19/2015 4:45:41 | 39.37 | 35.67 | 645 | 1.55 | 0.13 | 35.2 |
| 4/19/2015 4:45:42 | 39.70 | 36.00 | 649 | 1.56 | 0.13 | 35.5 |
| 4/19/2015 4:45:42 | 40.03 | 36.33 | 644 | 1.55 | 0.13 | 35.2 |
| 4/19/2015 4:45:43 | 40.35 | 36.65 | 655 | 1.55 | 0.13 | 35.8 |
| 4/19/2015 4:45:43 | 40.68 | 36.98 | 655 | 1.55 | 0.13 | 35.8 |
| 4/19/2015 4:45:44 | 41.01 | 37.31 | 648 | 1.54 | 0.13 | 35.4 |
| 4/19/2015 4:45:45 | 41.34 | 37.64 | 648 | 1.55 | 0.13 | 35.4 |
| 4/19/2015 4:45:45 | 41.67 | 37.97 | 648 | 1.55 | 0.13 | 35.4 |
| 4/19/2015 4:45:46 | 41.99 | 38.29 | 645 | 1.55 | 0.13 | 35.2 |
| 4/19/2015 4:45:46 | 42.32 | 38.62 | 647 | 1.55 | 0.14 | 35.4 |
| 4/19/2015 4:45:47 | 42.65 | 38.95 | 651 | 1.54 | 0.13 | 35.6 |
| 4/19/2015 4:45:47 | 42.98 | 39.28 | 647 | 1.55 | 0.13 | 35.4 |
| 4/19/2015 4:45:48 | 43.31 | 39.61 | 649 | 1.55 | 0.14 | 35.5 |
| 4/19/2015 4:45:49 | 43.64 | 39.94 | 644 | 1.54 | 0.14 | 35.2 |
| 4/19/2015 4:45:49 | 43.96 | 40.26 | 645 | 1.55 | 0.13 | 35.3 |
| 4/19/2015 4:45:50 | 44.29 | 40.59 | 645 | 1.55 | 0.13 | 35.3 |
| 4/19/2015 4:45:50 | 44.62 | 40.92 | 642 | 1.55 | 0.13 | 35.1 |
| 4/19/2015 4:45:51 | 44.95 | 41.25 | 641 | 1.55 | 0.13 | 35.0 |
| 4/19/2015 4:45:51 | 45.28 | 41.58 | 648 | 1.55 | 0.13 | 35.5 |
| 4/19/2015 4:45:52 | 45.60 | 41.90 | 645 | 1.55 | 0.13 | 35.3 |
| 4/19/2015 4:45:52 | 45.93 | 42.23 | 641 | 1.55 | 0.13 | 35.0 |
| 4/19/2015 4:45:53 | 46.26 | 42.56 | 641 | 1.54 | 0.13 | 35.0 |
| 4/19/2015 4:45:54 | 46.59 | 42.89 | 642 | 1.55 | 0.13 | 35.1 |
| 4/19/2015 4:45:54 | 46.92 | 43.22 | 645 | 1.56 | 0.13 | 35.2 |
| 4/19/2015 4:45:55 | 47.24 | 43.54 | 642 | 1.49 | 0.13 | 35.1 |
| 4/19/2015 4:45:55 | 47.57 | 43.87 | 648 | 1.55 | 0.13 | 35.5 |
| 4/19/2015 4:45:56 | 47.90 | 44.20 | 645 | 1.54 | 0.13 | 35.2 |
| 4/19/2015 4:45:56 | 48.23 | 44.53 | 631 | 1.53 | 0.13 | 34.5 |
| 4/19/2015 4:45:57 | 48.56 | 44.86 | 631 | 1.56 | 0.13 | 34.5 |
| 4/19/2015 4:45:57 | 48.88 | 45.18 | 639 | 1.55 | 0.13 | 34.9 |
| 4/19/2015 4:45:58 | 49.21 | 45.51 | 642 | 1.56 | 0.13 | 35.1 |
| 4/19/2015 4:45:59 | 49.54 | 45.84 | 636 | 1.56 | 0.16 | 34.8 |
| 4/19/2015 4:45:59 | 49.87 | 46.17 | 633 | 1.56 | 0.13 | 34.6 |
| 4/19/2015 4:46:00 | 50.20 | 46.50 | 650 | 1.56 | 0.13 | 35.5 |
| 4/19/2015 4:46:00 | 50.53 | 46.83 | 639 | 1.55 | 0.13 | 34.9 |
| 4/19/2015 4:46:01 | 50.85 | 47.15 | 639 | 1.55 | 0.14 | 34.9 |
| 4/19/2015 4:46:01 | 51.18 | 47.48 | 642 | 1.56 | 0.14 | 35.1 |
| 4/19/2015 4:46:02 | 51.51 | 47.81 | 642 | 1.56 | 0.14 | 35.1 |
| 4/19/2015 4:46:03 | 51.84 | 48.14 | 642 | 1.54 | 0.14 | 35.1 |
| 4/19/2015 4:46:03 | 52.17 | 48.47 | 638 | 1.68 | 0.14 | 34.9 |
| 4/19/2015 4:46:25 | 52.49 | 48.79 | 71 | 1.62 | 1.08 | 3.9 |
| 4/19/2015 4:46:26 | 52.82 | 49.12 | 162 | 1.61 | 1.01 | 8.9 |
| 4/19/2015 4:46:27 | 53.15 | 49.45 | 353 | 1.78 | 1.00 | 19.3 |
| 4/19/2015 4:46:32 | 53.48 | 49.78 | 0 | 1.57 | 0.91 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 4:46:33 | 53.81 | 50.11 | 134 | 1.62 | 0.94 | 7.3 |
| 4/19/2015 | 4:46:33 | 54.13 | 50.43 | 231 | 1.62 | 0.94 | 12.7 |
| 4/19/2015 | 4:46:34 | 54.46 | 50.76 | 332 | 1.62 | 0.94 | 18.1 |
| 4/19/2015 | 4:46:35 | 54.79 | 51.09 | 486 | 1.61 | 0.94 | 26.6 |
| 4/19/2015 | 4:46:35 | 55.12 | 51.42 | 486 | 1.62 | 0.94 | 26.6 |
| 4/19/2015 | 4:46:36 | 55.45 | 51.75 | 480 | 1.79 | 1.24 | 26.2 |
| 4/19/2015 | 4:46:47 | 55.77 | 52.07 | 52 | 1.71 | 1.28 | 2.9 |
| 4/19/2015 | 4:46:49 | 56.10 | 52.40 | 150 | 1.77 | 1.17 | 8.2 |
| 4/19/2015 | 4:46:55 | 56.43 | 52.73 | 49 | 1.76 | 1.12 | 2.7 |
| 4/19/2015 | 4:47:06 | 56.76 | 53.06 | 0 | 1.80 | 1.06 | 0.0 |
| 4/19/2015 | 4:47:10 | 57.09 | 53.39 | 66 | 1.82 | 1.25 | 3.6 |
| 4/19/2015 | 4:47:17 | 57.41 | 53.71 | 58 | 1.83 | 1.21 | 3.2 |
| 4/19/2015 | 4:47:23 | 57.74 | 54.04 | 46 | 1.84 | 1.13 | 2.5 |
| 4/19/2015 | 4:47:31 | 58.07 | 54.37 | 49 | 1.83 | 1.14 | 2.7 |
| 4/19/2015 | 4:47:32 | 58.12 | 54.42 | 52 | 1.81 | 1.28 | 2.8 |

## D51 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 4:43:46

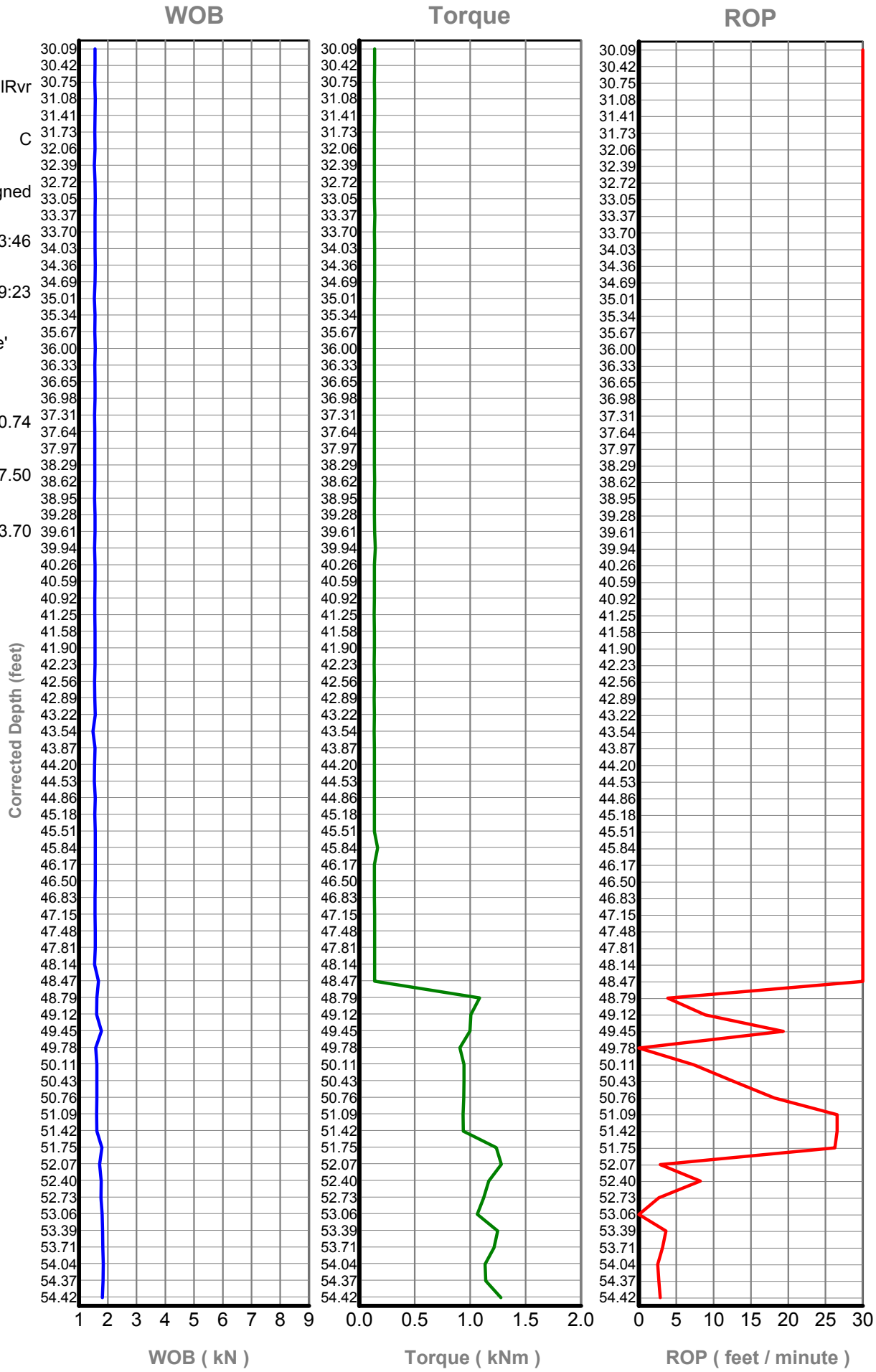
**End Date:**
4/19/2015 4:49:23

**Operator Note:**
'3.7 3.6 c Auto Complete'

**Northing:**
369,670.74

**Easting:**
255,257.50

**Tide (feet):**
3.70



## Hole: D52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:45:55 | 32.15 | 30.15 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 21:45:55 | 32.48 | 30.48 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 21:45:55 | 32.81 | 30.81 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/18/2015 21:45:56 | 33.14 | 31.14 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 21:45:56 | 33.46 | 31.46 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 21:45:56 | 33.79 | 31.79 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/18/2015 21:45:57 | 34.12 | 32.12 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 21:45:57 | 34.45 | 32.45 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 21:45:57 | 34.78 | 32.78 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 21:45:58 | 35.11 | 33.11 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 21:45:58 | 35.43 | 33.43 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 21:45:58 | 35.76 | 33.76 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 21:45:59 | 36.09 | 34.09 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 21:45:59 | 36.42 | 34.42 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 21:45:59 | 36.75 | 34.75 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 21:46:00 | 37.07 | 35.07 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:01 | 37.40 | 35.40 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:01 | 37.73 | 35.73 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:01 | 38.06 | 36.06 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 21:46:02 | 38.39 | 36.39 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 21:46:02 | 38.71 | 36.71 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:02 | 39.04 | 37.04 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:03 | 39.37 | 37.37 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 21:46:03 | 39.70 | 37.70 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 21:46:03 | 40.03 | 38.03 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:46:04 | 40.35 | 38.35 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:46:04 | 40.68 | 38.68 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:46:04 | 41.01 | 39.01 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 21:46:05 | 41.34 | 39.34 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 21:46:05 | 41.67 | 39.67 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 21:46:05 | 41.99 | 39.99 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 21:46:06 | 42.32 | 40.32 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:46:06 | 42.65 | 40.65 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:46:06 | 42.98 | 40.98 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 21:46:07 | 43.31 | 41.31 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 21:46:07 | 43.64 | 41.64 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 21:46:07 | 43.96 | 41.96 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 21:46:08 | 44.29 | 42.29 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 21:46:08 | 44.62 | 42.62 | 971 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 21:46:09 | 44.95 | 42.95 | 971 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 21:46:09 | 45.28 | 43.28 | 966 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 21:46:09 | 45.60 | 43.60 | 946 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 21:46:10 | 45.93 | 43.93 | 946 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 21:46:10 | 46.26 | 44.26 | 946 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 21:46:10 | 46.59 | 44.59 | 956 | 0.24 | 0.37 | 52.3 |
| 4/18/2015 21:46:11 | 46.92 | 44.92 | 958 | 0.24 | 0.37 | 52.4 |
| 4/18/2015 21:46:12 | 47.24 | 45.24 | 958 | 0.24 | 0.37 | 52.4 |
| 4/18/2015 21:46:11 | 47.57 | 45.57 | 947 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 21:46:12 | 47.90 | 45.90 | 953 | 0.24 | 0.37 | 52.1 |
| 4/18/2015 21:46:13 | 48.23 | 46.23 | 953 | 0.24 | 0.37 | 52.1 |
| 4/18/2015 21:46:56 | 48.56 | 46.56 | 3 | 0.24 | 0.37 | 0.1 |
| 4/18/2015 21:47:02 | 48.88 | 46.88 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 21:47:08 | 49.21 | 47.21 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 21:47:13 | 49.54 | 47.54 | 68 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 21:47:18 | 49.87 | 47.87 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 21:48:03 | 50.06 | 48.06 | 0 | 0.24 | 0.37 | 0.0 |

## D52 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 21:44:09

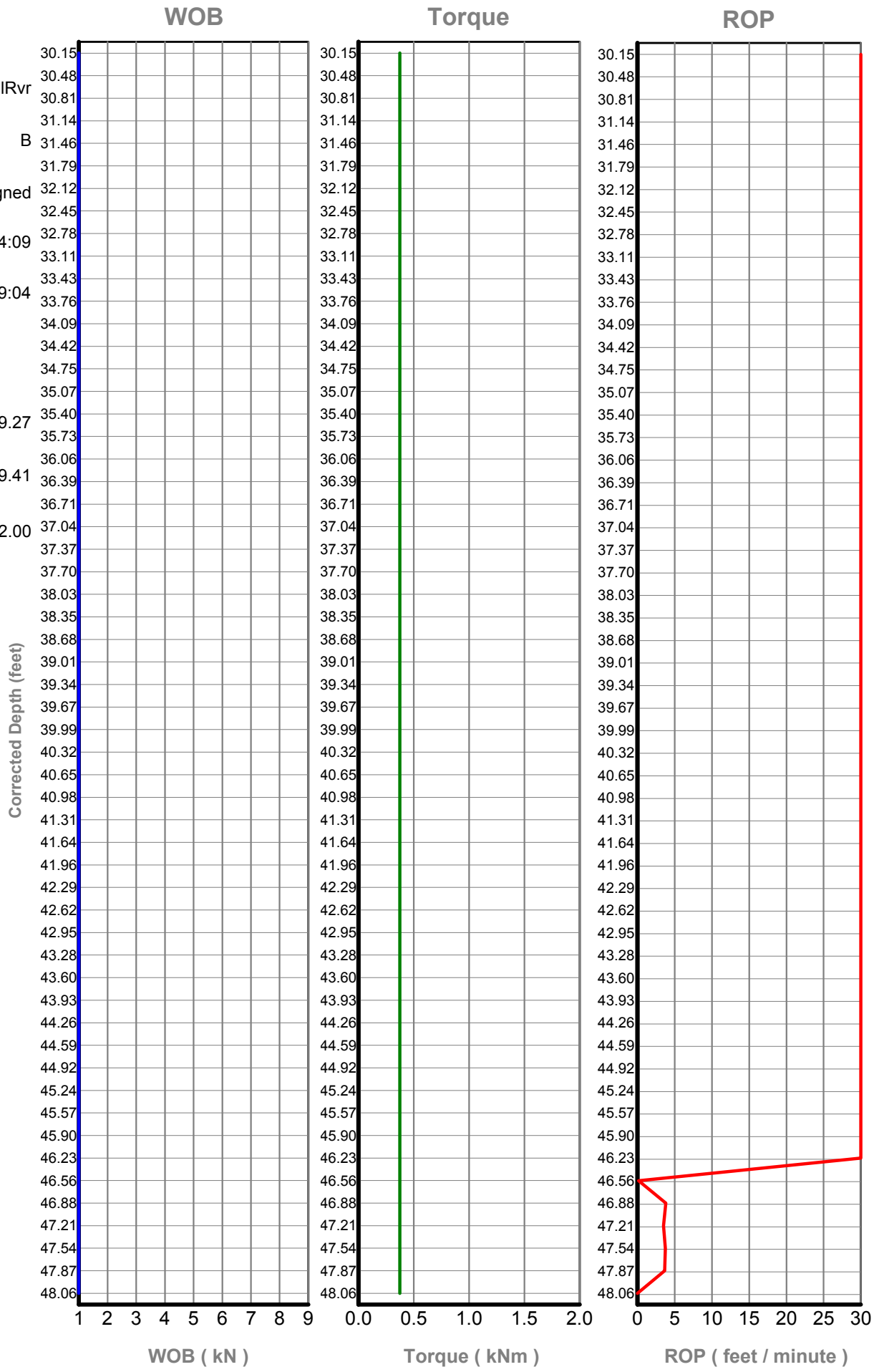
**End Date:**
4/18/2015 21:49:04

**Operator Note:**
'2 2 b Auto Complete'

**Northing:**
369,719.27

**Easting:**
255,339.41

**Tide (feet):**
2.00



## Hole: D53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:48:30 | 32.15 | 30.15 | 651 | 1.62 | 0.13 | 35.6 |
| 4/18/2015 21:48:31 | 32.48 | 30.48 | 643 | 1.62 | 0.13 | 35.2 |
| 4/18/2015 21:48:31 | 32.81 | 30.81 | 643 | 1.62 | 0.13 | 35.2 |
| 4/18/2015 21:48:32 | 33.14 | 31.14 | 652 | 1.61 | 0.13 | 35.7 |
| 4/18/2015 21:48:32 | 33.46 | 31.46 | 649 | 1.61 | 0.13 | 35.5 |
| 4/18/2015 21:48:33 | 33.79 | 31.79 | 649 | 1.60 | 0.13 | 35.5 |
| 4/18/2015 21:48:33 | 34.12 | 32.12 | 649 | 1.61 | 0.13 | 35.5 |
| 4/18/2015 21:48:34 | 34.45 | 32.45 | 667 | 1.61 | 0.13 | 36.5 |
| 4/18/2015 21:48:35 | 34.78 | 32.78 | 654 | 1.60 | 0.13 | 35.7 |
| 4/18/2015 21:48:35 | 35.11 | 33.11 | 661 | 1.62 | 0.13 | 36.1 |
| 4/18/2015 21:48:36 | 35.43 | 33.43 | 671 | 1.60 | 0.13 | 36.7 |
| 4/18/2015 21:48:36 | 35.76 | 33.76 | 658 | 1.60 | 0.13 | 36.0 |
| 4/18/2015 21:48:37 | 36.09 | 34.09 | 665 | 1.60 | 0.13 | 36.4 |
| 4/18/2015 21:48:37 | 36.42 | 34.42 | 665 | 1.61 | 0.13 | 36.4 |
| 4/18/2015 21:48:38 | 36.75 | 34.75 | 665 | 1.61 | 0.13 | 36.4 |
| 4/18/2015 21:48:38 | 37.07 | 35.07 | 658 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:48:39 | 37.40 | 35.40 | 665 | 1.62 | 0.13 | 36.4 |
| 4/18/2015 21:48:39 | 37.73 | 35.73 | 662 | 1.62 | 0.13 | 36.2 |
| 4/18/2015 21:48:40 | 38.06 | 36.06 | 662 | 1.60 | 0.13 | 36.2 |
| 4/18/2015 21:48:41 | 38.39 | 36.39 | 658 | 1.60 | 0.13 | 36.0 |
| 4/18/2015 21:48:41 | 38.71 | 36.71 | 669 | 1.61 | 0.13 | 36.6 |
| 4/18/2015 21:48:42 | 39.04 | 37.04 | 665 | 1.60 | 0.13 | 36.4 |
| 4/18/2015 21:48:42 | 39.37 | 37.37 | 665 | 1.61 | 0.13 | 36.4 |
| 4/18/2015 21:48:43 | 39.70 | 37.70 | 658 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:48:43 | 40.03 | 38.03 | 666 | 1.59 | 0.13 | 36.4 |
| 4/18/2015 21:48:44 | 40.35 | 38.35 | 666 | 1.62 | 0.13 | 36.4 |
| 4/18/2015 21:48:44 | 40.68 | 38.68 | 666 | 1.66 | 0.13 | 36.4 |
| 4/18/2015 21:48:45 | 41.01 | 39.01 | 662 | 1.60 | 0.13 | 36.2 |
| 4/18/2015 21:48:45 | 41.34 | 39.34 | 673 | 1.60 | 0.13 | 36.8 |
| 4/18/2015 21:48:46 | 41.67 | 39.67 | 665 | 1.60 | 0.13 | 36.4 |
| 4/18/2015 21:48:46 | 41.99 | 39.99 | 662 | 1.62 | 0.13 | 36.2 |
| 4/18/2015 21:48:47 | 42.32 | 40.32 | 662 | 1.62 | 0.13 | 36.2 |
| 4/18/2015 21:48:47 | 42.65 | 40.65 | 665 | 1.62 | 0.13 | 36.4 |
| 4/18/2015 21:48:48 | 42.98 | 40.98 | 665 | 1.61 | 0.13 | 36.4 |
| 4/18/2015 21:48:48 | 43.31 | 41.31 | 665 | 1.59 | 0.13 | 36.4 |
| 4/18/2015 21:48:49 | 43.64 | 41.64 | 657 | 1.62 | 0.13 | 35.9 |
| 4/18/2015 21:48:49 | 43.96 | 41.96 | 650 | 1.62 | 0.13 | 35.5 |
| 4/18/2015 21:48:51 | 44.29 | 42.29 | 651 | 1.62 | 0.13 | 35.6 |
| 4/18/2015 21:48:51 | 44.62 | 42.62 | 651 | 1.61 | 0.13 | 35.6 |
| 4/18/2015 21:48:52 | 44.95 | 42.95 | 654 | 1.60 | 0.13 | 35.8 |
| 4/18/2015 21:48:52 | 45.28 | 43.28 | 650 | 1.61 | 0.13 | 35.5 |
| 4/18/2015 21:48:53 | 45.60 | 43.60 | 665 | 1.61 | 0.13 | 36.4 |
| 4/18/2015 21:48:53 | 45.93 | 43.93 | 653 | 1.62 | 0.13 | 35.7 |
| 4/18/2015 21:48:54 | 46.26 | 44.26 | 653 | 1.62 | 0.13 | 35.7 |
| 4/18/2015 21:48:54 | 46.59 | 44.59 | 659 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:48:55 | 46.92 | 44.92 | 646 | 1.61 | 0.13 | 35.3 |
| 4/18/2015 21:48:55 | 47.24 | 45.24 | 650 | 1.61 | 0.13 | 35.5 |
| 4/18/2015 21:48:56 | 47.57 | 45.57 | 650 | 1.62 | 0.13 | 35.5 |
| 4/18/2015 21:48:56 | 47.90 | 45.90 | 642 | 1.62 | 0.13 | 35.1 |
| 4/18/2015 21:48:57 | 48.23 | 46.23 | 658 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:48:57 | 48.56 | 46.56 | 658 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:48:58 | 48.88 | 46.88 | 647 | 1.61 | 0.12 | 35.4 |
| 4/18/2015 21:48:58 | 49.21 | 47.21 | 647 | 1.61 | 0.12 | 35.4 |
| 4/18/2015 21:48:59 | 49.54 | 47.54 | 660 | 1.61 | 0.12 | 36.1 |
| 4/18/2015 21:48:59 | 49.87 | 47.87 | 654 | 1.60 | 0.13 | 35.8 |
| 4/18/2015 21:49:00 | 50.20 | 48.20 | 654 | 1.61 | 0.12 | 35.8 |
| 4/18/2015 21:49:01 | 50.53 | 48.53 | 658 | 1.61 | 0.13 | 36.0 |
| 4/18/2015 21:49:01 | 50.85 | 48.85 | 659 | 1.63 | 0.13 | 36.0 |
| 4/18/2015 21:49:28 | 51.18 | 49.18 | 0 | 1.66 | 1.06 | 0.0 |
| 4/18/2015 21:49:38 | 51.51 | 49.51 | 0 | 1.72 | 1.22 | 0.0 |
| 4/18/2015 21:49:39 | 51.84 | 49.84 | 60 | 1.72 | 1.25 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 21:49:40 | 52.17 | 50.17 | 198 | 1.73 | 1.27 | 10.8 |
| 4/18/2015 | 21:49:41 | 52.49 | 50.49 | 262 | 1.70 | 1.01 | 14.3 |
| 4/18/2015 | 21:49:47 | 52.82 | 50.82 | 38 | 1.72 | 1.12 | 2.1 |
| 4/18/2015 | 21:49:54 | 53.15 | 51.15 | 14 | 1.68 | 0.99 | 0.8 |
| 4/18/2015 | 21:49:55 | 53.48 | 51.48 | 199 | 1.73 | 1.19 | 10.9 |
| 4/18/2015 | 21:50:09 | 53.81 | 51.81 | 84 | 1.85 | 1.25 | 4.6 |
| 4/18/2015 | 21:50:15 | 54.13 | 52.13 | 52 | 1.82 | 1.17 | 2.8 |
| 4/18/2015 | 21:50:18 | 54.46 | 52.46 | 119 | 1.84 | 1.21 | 6.5 |

## D53 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 21:43:49

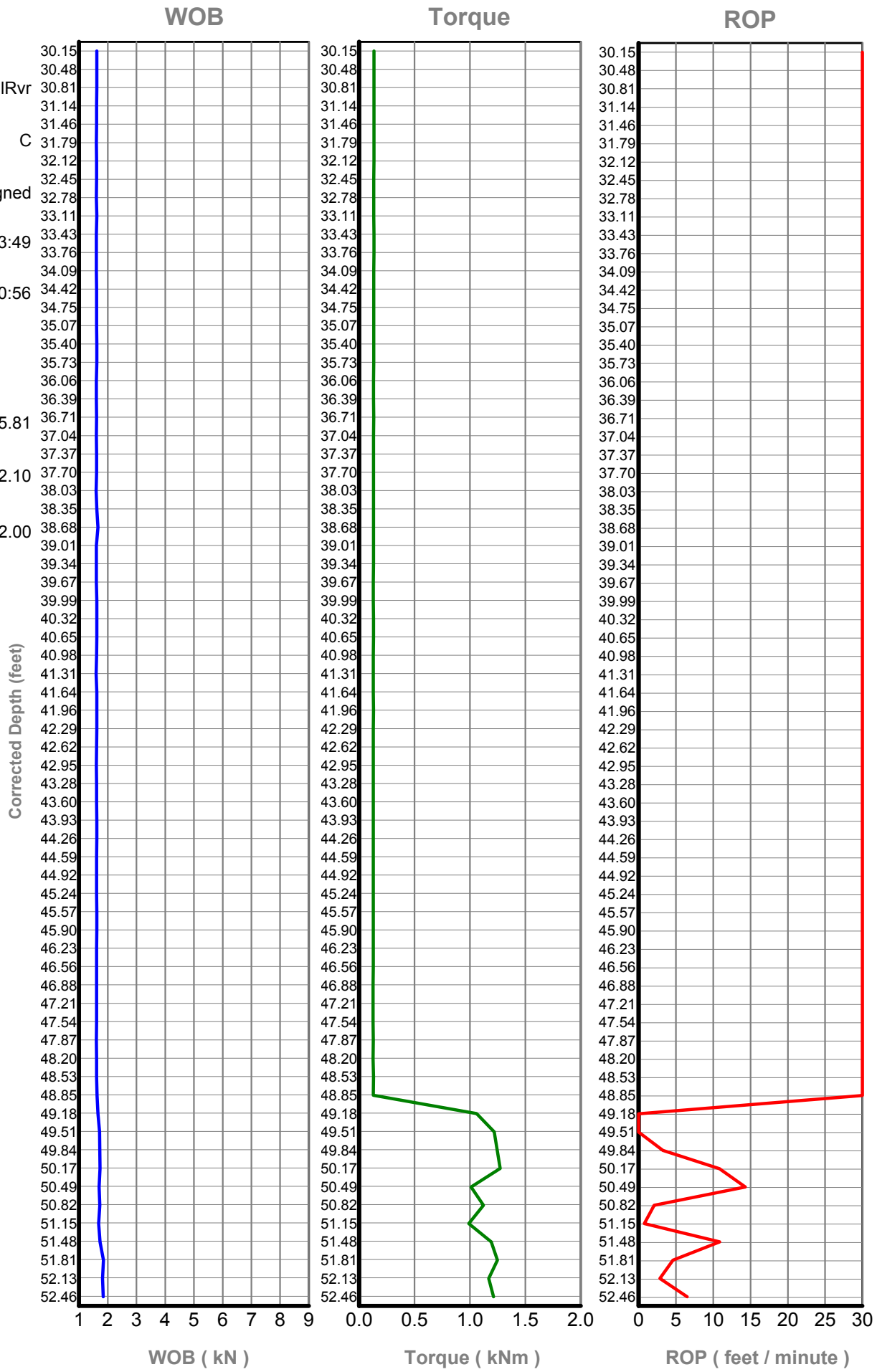
**End Date:**
4/18/2015 21:50:56

**Operator Note:**
'2 '2.6 2.0 c Auto Complete'

**Northing:**
369,745.81

**Easting:**
255,392.10

**Tide (feet):**
2.00



## Hole: D54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:56:19 | 32.48 | 30.28 | 157 | 1.58 | 0.15 | 8.6 |
| 4/18/2015 21:56:19 | 32.81 | 30.61 | 234 | 1.58 | 0.13 | 12.8 |
| 4/18/2015 21:56:20 | 33.14 | 30.94 | 376 | 1.58 | 0.13 | 20.5 |
| 4/18/2015 21:56:20 | 33.46 | 31.26 | 531 | 1.59 | 0.13 | 29.0 |
| 4/18/2015 21:56:21 | 33.79 | 31.59 | 676 | 1.58 | 0.13 | 37.0 |
| 4/18/2015 21:56:21 | 34.12 | 31.92 | 739 | 1.58 | 0.13 | 40.4 |
| 4/18/2015 21:56:22 | 34.45 | 32.25 | 738 | 1.58 | 0.13 | 40.3 |
| 4/18/2015 21:56:22 | 34.78 | 32.58 | 740 | 1.58 | 0.13 | 40.5 |
| 4/18/2015 21:56:23 | 35.11 | 32.91 | 740 | 1.58 | 0.13 | 40.5 |
| 4/18/2015 21:56:23 | 35.43 | 33.23 | 740 | 1.57 | 0.13 | 40.5 |
| 4/18/2015 21:56:24 | 35.76 | 33.56 | 745 | 1.57 | 0.13 | 40.7 |
| 4/18/2015 21:56:24 | 36.09 | 33.89 | 741 | 1.58 | 0.13 | 40.5 |
| 4/18/2015 21:56:25 | 36.42 | 34.22 | 742 | 1.59 | 0.13 | 40.6 |
| 4/18/2015 21:56:25 | 36.75 | 34.55 | 742 | 1.59 | 0.13 | 40.6 |
| 4/18/2015 21:56:25 | 37.07 | 34.87 | 737 | 1.58 | 0.13 | 40.3 |
| 4/18/2015 21:56:26 | 37.40 | 35.20 | 737 | 1.58 | 0.13 | 40.3 |
| 4/18/2015 21:56:26 | 37.73 | 35.53 | 734 | 1.58 | 0.13 | 40.2 |
| 4/18/2015 21:56:27 | 38.06 | 35.86 | 737 | 1.59 | 0.13 | 40.3 |
| 4/18/2015 21:56:27 | 38.39 | 36.19 | 740 | 1.59 | 0.13 | 40.5 |
| 4/18/2015 21:56:28 | 38.71 | 36.51 | 737 | 1.57 | 0.13 | 40.3 |
| 4/18/2015 21:56:29 | 39.04 | 36.84 | 736 | 1.58 | 0.13 | 40.2 |
| 4/18/2015 21:56:29 | 39.37 | 37.17 | 733 | 1.58 | 0.13 | 40.1 |
| 4/18/2015 21:56:30 | 39.70 | 37.50 | 735 | 1.58 | 0.13 | 40.2 |
| 4/18/2015 21:56:30 | 40.03 | 37.83 | 734 | 1.57 | 0.13 | 40.1 |
| 4/18/2015 21:56:31 | 40.35 | 38.15 | 740 | 1.59 | 0.13 | 40.5 |
| 4/18/2015 21:56:31 | 40.68 | 38.48 | 738 | 1.59 | 0.13 | 40.4 |
| 4/18/2015 21:56:32 | 41.01 | 38.81 | 745 | 1.54 | 0.13 | 40.7 |
| 4/18/2015 21:56:32 | 41.34 | 39.14 | 739 | 1.57 | 0.13 | 40.4 |
| 4/18/2015 21:56:33 | 41.67 | 39.47 | 739 | 1.57 | 0.13 | 40.4 |
| 4/18/2015 21:56:33 | 41.99 | 39.79 | 737 | 1.58 | 0.13 | 40.3 |
| 4/18/2015 21:56:33 | 42.32 | 40.12 | 730 | 1.58 | 0.13 | 39.9 |
| 4/18/2015 21:56:34 | 42.65 | 40.45 | 737 | 1.59 | 0.13 | 40.3 |
| 4/18/2015 21:56:34 | 42.98 | 40.78 | 730 | 1.51 | 0.13 | 39.9 |
| 4/18/2015 21:56:35 | 43.31 | 41.11 | 737 | 1.57 | 0.13 | 40.3 |
| 4/18/2015 21:56:35 | 43.64 | 41.44 | 726 | 1.59 | 0.13 | 39.7 |
| 4/18/2015 21:56:36 | 43.96 | 41.76 | 739 | 1.58 | 0.13 | 40.4 |
| 4/18/2015 21:56:36 | 44.29 | 42.09 | 736 | 1.58 | 0.13 | 40.2 |
| 4/18/2015 21:56:37 | 44.62 | 42.42 | 737 | 1.59 | 0.13 | 40.3 |
| 4/18/2015 21:56:37 | 44.95 | 42.75 | 733 | 1.58 | 0.13 | 40.1 |
| 4/18/2015 21:56:38 | 45.28 | 43.08 | 743 | 1.59 | 0.13 | 40.6 |
| 4/18/2015 21:56:38 | 45.60 | 43.40 | 731 | 1.57 | 0.13 | 40.0 |
| 4/18/2015 21:56:39 | 45.93 | 43.73 | 731 | 1.58 | 0.13 | 40.0 |
| 4/18/2015 21:56:40 | 46.26 | 44.06 | 727 | 1.59 | 0.11 | 39.7 |
| 4/18/2015 21:56:40 | 46.59 | 44.39 | 727 | 1.59 | 0.11 | 39.7 |
| 4/18/2015 21:56:40 | 46.92 | 44.72 | 731 | 1.57 | 0.13 | 40.0 |
| 4/18/2015 21:56:41 | 47.24 | 45.04 | 731 | 1.57 | 0.13 | 40.0 |
| 4/18/2015 21:56:41 | 47.57 | 45.37 | 736 | 1.58 | 0.13 | 40.2 |
| 4/18/2015 21:56:42 | 47.90 | 45.70 | 731 | 1.59 | 0.13 | 40.0 |
| 4/18/2015 21:57:11 | 48.23 | 46.03 | 0 | 1.63 | 1.11 | 0.0 |
| 4/18/2015 21:57:19 | 48.56 | 46.36 | 23 | 2.10 | 0.88 | 1.3 |
| 4/18/2015 21:57:21 | 48.88 | 46.68 | 129 | 1.70 | 1.12 | 7.1 |
| 4/18/2015 21:57:22 | 49.21 | 47.01 | 261 | 1.75 | 1.09 | 14.2 |
| 4/18/2015 21:57:31 | 49.54 | 47.34 | 66 | 1.84 | 1.44 | 3.6 |
| 4/18/2015 21:57:56 | 49.87 | 47.67 | 81 | 1.83 | 1.23 | 4.4 |
| 4/18/2015 21:57:59 | 50.20 | 48.00 | 101 | 1.84 | 1.21 | 5.5 |
| 4/18/2015 21:58:02 | 50.53 | 48.33 | 124 | 1.84 | 1.16 | 6.8 |
| 4/18/2015 21:58:06 | 50.85 | 48.65 | 83 | 1.86 | 1.25 | 4.6 |
| 4/18/2015 21:58:08 | 51.00 | 48.80 | 71 | 1.84 | 1.26 | 3.9 |

## D54 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 21:54:26

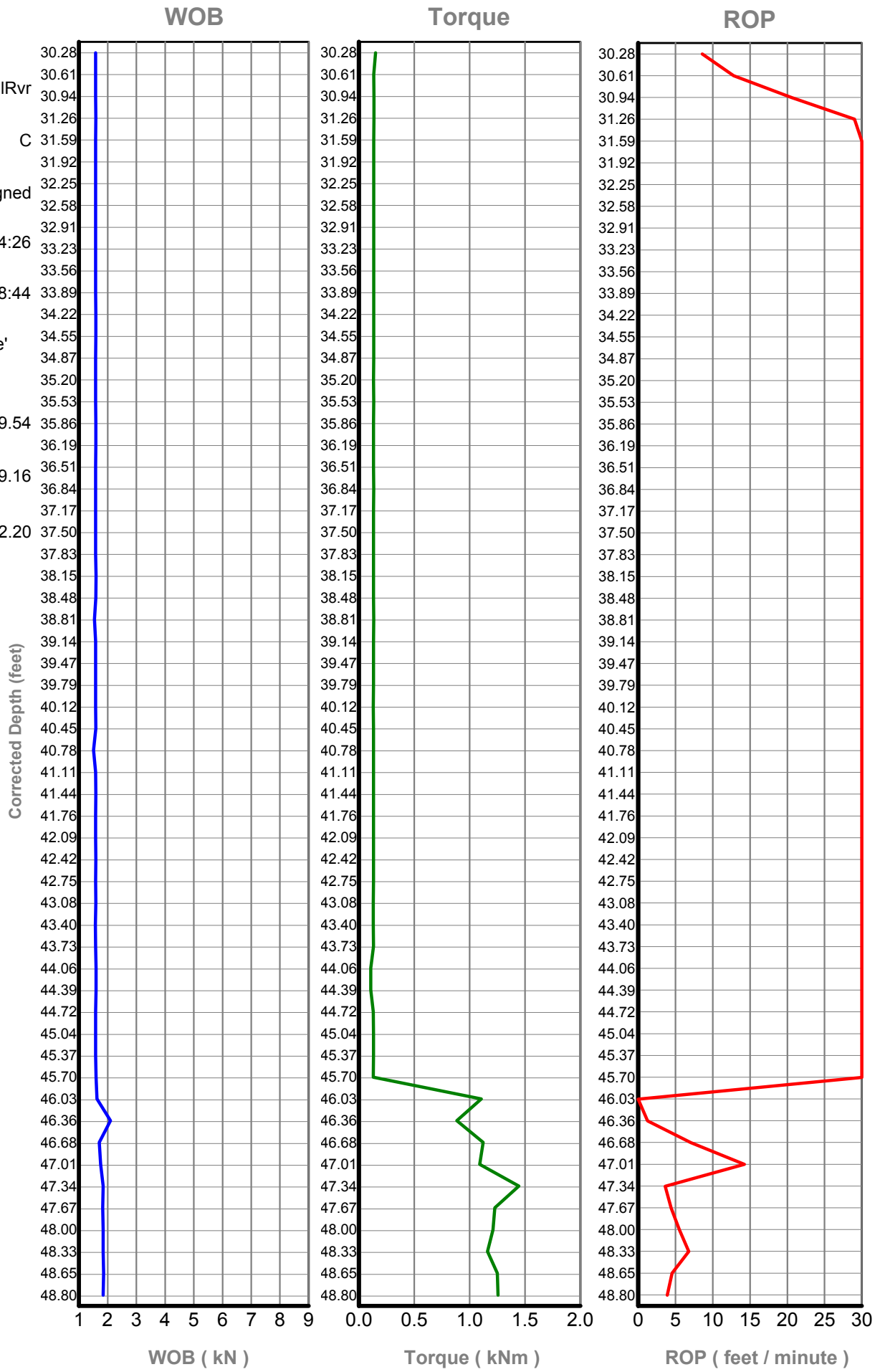
**End Date:**
4/18/2015 21:58:44

**Operator Note:**
'2.2 2.0 c Auto Complete'

**Northing:**
369,779.54

**Easting:**
255,459.16

**Tide (feet):**
2.20



## Hole: D55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:40:36 | 33.14 | 30.24 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 16:40:36 | 33.46 | 30.56 | 1,102 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 16:40:36 | 33.79 | 30.89 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 16:40:37 | 34.12 | 31.22 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 16:40:37 | 34.45 | 31.55 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 16:40:38 | 34.78 | 31.88 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:40:38 | 35.11 | 32.21 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:40:38 | 35.43 | 32.53 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 16:40:39 | 35.76 | 32.86 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 16:40:39 | 36.09 | 33.19 | 1,092 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:40:39 | 36.42 | 33.52 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:40:40 | 36.75 | 33.85 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:40:40 | 37.07 | 34.17 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:40:40 | 37.40 | 34.50 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:40:41 | 37.73 | 34.83 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:40:41 | 38.06 | 35.16 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:40:41 | 38.39 | 35.49 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:40:41 | 38.71 | 35.81 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:40:42 | 39.04 | 36.14 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:40:42 | 39.37 | 36.47 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:40:42 | 39.70 | 36.80 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:40:43 | 40.03 | 37.13 | 1,067 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 16:40:45 | 40.35 | 37.45 | 149 | 0.24 | 0.37 | 8.2 |
| 4/18/2015 16:40:46 | 40.68 | 37.78 | 149 | 0.24 | 0.37 | 8.2 |
| 4/18/2015 16:40:46 | 41.01 | 38.11 | 249 | 0.24 | 0.37 | 13.6 |
| 4/18/2015 16:40:46 | 41.34 | 38.44 | 449 | 0.24 | 0.37 | 24.5 |
| 4/18/2015 16:40:47 | 41.67 | 38.77 | 449 | 0.24 | 0.37 | 24.5 |
| 4/18/2015 16:40:47 | 41.99 | 39.09 | 667 | 0.24 | 0.37 | 36.5 |
| 4/18/2015 16:40:47 | 42.32 | 39.42 | 878 | 0.24 | 0.37 | 48.0 |
| 4/18/2015 16:40:48 | 42.65 | 39.75 | 878 | 0.24 | 0.37 | 48.0 |
| 4/18/2015 16:40:48 | 42.98 | 40.08 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 16:40:49 | 43.31 | 40.41 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 16:40:49 | 43.64 | 40.74 | 1,055 | 0.24 | 0.37 | 57.7 |
| 4/18/2015 16:40:49 | 43.96 | 41.06 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:40:50 | 44.29 | 41.39 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:40:50 | 44.62 | 41.72 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:40:50 | 44.95 | 42.05 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:40:51 | 45.28 | 42.38 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:40:51 | 45.60 | 42.70 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:40:51 | 45.93 | 43.03 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:40:52 | 46.26 | 43.36 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:40:52 | 46.59 | 43.69 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:40:52 | 46.92 | 44.02 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:40:53 | 47.24 | 44.34 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:40:53 | 47.57 | 44.67 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:40:53 | 47.90 | 45.00 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 16:41:02 | 48.23 | 45.33 | 115 | 0.24 | 0.37 | 6.3 |
| 4/18/2015 16:41:05 | 48.56 | 45.66 | 69 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 16:41:06 | 48.88 | 45.98 | 164 | 0.24 | 0.37 | 9.0 |
| 4/18/2015 16:41:07 | 49.21 | 46.31 | 332 | 0.24 | 0.37 | 18.1 |
| 4/18/2015 16:41:08 | 49.54 | 46.64 | 346 | 0.24 | 0.37 | 18.9 |
| 4/18/2015 16:41:10 | 49.87 | 46.97 | 234 | 0.24 | 0.37 | 12.8 |
| 4/18/2015 16:41:11 | 50.20 | 47.30 | 251 | 0.24 | 0.37 | 13.8 |
| 4/18/2015 16:41:30 | 50.53 | 47.63 | 9 | 0.24 | 0.37 | 0.5 |
| 4/18/2015 16:41:39 | 50.85 | 47.95 | 40 | 0.24 | 0.37 | 2.2 |
| 4/18/2015 16:41:47 | 51.18 | 48.28 | 47 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 16:41:54 | 51.51 | 48.61 | 61 | 0.24 | 0.37 | 3.4 |
| 4/18/2015 16:42:00 | 51.79 | 48.89 | 49 | 0.24 | 0.37 | 2.7 |

## D55 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:39:25

**End Date:**
4/18/2015 16:43:32

**Operator Note:**
'2.9 Auto Complete'

**Northing:**
369,813.08

**Easting:**
255,553.80

**Tide (feet):**
2.90



## Hole: D56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:36:17 | 33.14 | 30.24 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 16:36:17 | 33.46 | 30.56 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:18 | 33.79 | 30.89 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:18 | 34.12 | 31.22 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:36:18 | 34.45 | 31.55 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:19 | 34.78 | 31.88 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:19 | 35.11 | 32.21 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:19 | 35.43 | 32.53 | 1,098 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:19 | 35.76 | 32.86 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:36:20 | 36.09 | 33.19 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 16:36:21 | 36.42 | 33.52 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 16:36:21 | 36.75 | 33.85 | 1,095 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 16:36:21 | 37.07 | 34.17 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:36:22 | 37.40 | 34.50 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 16:36:22 | 37.73 | 34.83 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:36:22 | 38.06 | 35.16 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:36:22 | 38.39 | 35.49 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:23 | 38.71 | 35.81 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:23 | 39.04 | 36.14 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:23 | 39.37 | 36.47 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:24 | 39.70 | 36.80 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:24 | 40.03 | 37.13 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:24 | 40.35 | 37.45 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:36:25 | 40.68 | 37.78 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:25 | 41.01 | 38.11 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:25 | 41.34 | 38.44 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:36:26 | 41.67 | 38.77 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:36:26 | 41.99 | 39.09 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:26 | 42.32 | 39.42 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:36:27 | 42.65 | 39.75 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:36:27 | 42.98 | 40.08 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:36:27 | 43.31 | 40.41 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:28 | 43.64 | 40.74 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:36:28 | 43.96 | 41.06 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:28 | 44.29 | 41.39 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:28 | 44.62 | 41.72 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:29 | 44.95 | 42.05 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:29 | 45.28 | 42.38 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:29 | 45.60 | 42.70 | 1,097 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:30 | 45.93 | 43.03 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:36:30 | 46.26 | 43.36 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:36:30 | 46.59 | 43.69 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 16:36:31 | 46.92 | 44.02 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:32 | 47.24 | 44.34 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 16:36:31 | 47.57 | 44.67 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:32 | 47.90 | 45.00 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:32 | 48.23 | 45.33 | 1,093 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 16:36:33 | 48.56 | 45.66 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:36:39 | 48.88 | 45.98 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 16:36:39 | 49.21 | 46.31 | 54 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 16:36:42 | 49.54 | 46.64 | 221 | 0.24 | 0.37 | 12.1 |
| 4/18/2015 16:36:52 | 49.87 | 46.97 | 44 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:36:56 | 50.20 | 47.30 | 96 | 0.24 | 0.37 | 5.3 |
| 4/18/2015 16:37:03 | 50.53 | 47.63 | 44 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:37:09 | 50.85 | 47.95 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 16:37:15 | 51.18 | 48.28 | 43 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:37:23 | 51.51 | 48.61 | 44 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 16:37:25 | 51.61 | 48.71 | 44 | 0.24 | 0.37 | 2.4 |

## D56 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:34:09

**End Date:**
4/18/2015 16:38:27

**Operator Note:**
'2.9 3.2 b Auto Complete'

**Northing:**
369,837.31

**Easting:**
255,607.60

**Tide (feet):**
2.90



## Hole: D57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:37:12 | 33.14 | 30.24 | 746 | 1.52 | 0.25 | 40.8 |
| 4/18/2015 16:37:12 | 33.46 | 30.56 | 746 | 1.52 | 0.25 | 40.8 |
| 4/18/2015 16:37:12 | 33.79 | 30.89 | 735 | 1.53 | 0.25 | 40.2 |
| 4/18/2015 16:37:13 | 34.12 | 31.22 | 742 | 1.53 | 0.26 | 40.6 |
| 4/18/2015 16:37:13 | 34.45 | 31.55 | 734 | 1.52 | 0.25 | 40.2 |
| 4/18/2015 16:37:14 | 34.78 | 31.88 | 746 | 1.52 | 0.25 | 40.8 |
| 4/18/2015 16:37:14 | 35.11 | 32.21 | 739 | 1.52 | 0.25 | 40.4 |
| 4/18/2015 16:37:15 | 35.43 | 32.53 | 726 | 1.52 | 0.25 | 39.7 |
| 4/18/2015 16:37:15 | 35.76 | 32.86 | 726 | 1.53 | 0.25 | 39.7 |
| 4/18/2015 16:37:16 | 36.09 | 33.19 | 732 | 1.51 | 0.25 | 40.0 |
| 4/18/2015 16:37:16 | 36.42 | 33.52 | 736 | 1.52 | 0.25 | 40.3 |
| 4/18/2015 16:37:17 | 36.75 | 33.85 | 736 | 1.53 | 0.25 | 40.3 |
| 4/18/2015 16:37:17 | 37.07 | 34.17 | 741 | 1.52 | 0.25 | 40.5 |
| 4/18/2015 16:37:18 | 37.40 | 34.50 | 749 | 1.51 | 0.25 | 41.0 |
| 4/18/2015 16:37:18 | 37.73 | 34.83 | 749 | 1.51 | 0.25 | 41.0 |
| 4/18/2015 16:37:19 | 38.06 | 35.16 | 748 | 1.51 | 0.26 | 40.9 |
| 4/18/2015 16:37:19 | 38.39 | 35.49 | 724 | 1.51 | 0.25 | 39.6 |
| 4/18/2015 16:37:20 | 38.71 | 35.81 | 724 | 1.52 | 0.25 | 39.6 |
| 4/18/2015 16:37:20 | 39.04 | 36.14 | 739 | 1.53 | 0.25 | 40.4 |
| 4/18/2015 16:37:21 | 39.37 | 36.47 | 731 | 1.53 | 0.25 | 40.0 |
| 4/18/2015 16:37:21 | 39.70 | 36.80 | 736 | 1.52 | 0.25 | 40.2 |
| 4/18/2015 16:37:22 | 40.03 | 37.13 | 724 | 1.53 | 0.25 | 39.6 |
| 4/18/2015 16:37:22 | 40.35 | 37.45 | 743 | 1.52 | 0.25 | 40.6 |
| 4/18/2015 16:37:23 | 40.68 | 37.78 | 741 | 1.54 | 0.25 | 40.5 |
| 4/18/2015 16:37:23 | 41.01 | 38.11 | 738 | 1.53 | 0.25 | 40.3 |
| 4/18/2015 16:37:24 | 41.34 | 38.44 | 738 | 1.53 | 0.25 | 40.3 |
| 4/18/2015 16:37:24 | 41.67 | 38.77 | 739 | 1.53 | 0.26 | 40.4 |
| 4/18/2015 16:37:25 | 41.99 | 39.09 | 739 | 1.52 | 0.25 | 40.4 |
| 4/18/2015 16:37:25 | 42.32 | 39.42 | 724 | 1.53 | 0.25 | 39.6 |
| 4/18/2015 16:37:26 | 42.65 | 39.75 | 724 | 1.53 | 0.25 | 39.6 |
| 4/18/2015 16:37:26 | 42.98 | 40.08 | 728 | 1.52 | 0.25 | 39.8 |
| 4/18/2015 16:37:26 | 43.31 | 40.41 | 720 | 1.53 | 0.25 | 39.4 |
| 4/18/2015 16:37:27 | 43.64 | 40.74 | 729 | 1.53 | 0.25 | 39.9 |
| 4/18/2015 16:37:27 | 43.96 | 41.06 | 729 | 1.52 | 0.25 | 39.9 |
| 4/18/2015 16:37:28 | 44.29 | 41.39 | 733 | 1.53 | 0.25 | 40.1 |
| 4/18/2015 16:37:28 | 44.62 | 41.72 | 725 | 1.53 | 0.26 | 39.6 |
| 4/18/2015 16:37:29 | 44.95 | 42.05 | 730 | 1.53 | 0.25 | 39.9 |
| 4/18/2015 16:37:30 | 45.28 | 42.38 | 726 | 1.53 | 0.25 | 39.7 |
| 4/18/2015 16:37:30 | 45.60 | 42.70 | 715 | 1.53 | 0.25 | 39.1 |
| 4/18/2015 16:37:31 | 45.93 | 43.03 | 716 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:37:31 | 46.26 | 43.36 | 728 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:37:32 | 46.59 | 43.69 | 724 | 1.52 | 0.25 | 39.6 |
| 4/18/2015 16:37:32 | 46.92 | 44.02 | 724 | 1.54 | 0.25 | 39.6 |
| 4/18/2015 16:37:33 | 47.24 | 44.34 | 731 | 1.72 | 0.26 | 40.0 |
| 4/18/2015 16:38:05 | 47.57 | 44.67 | 52 | 1.77 | 1.12 | 2.8 |
| 4/18/2015 16:38:11 | 47.90 | 45.00 | 61 | 1.76 | 1.23 | 3.4 |
| 4/18/2015 16:38:16 | 48.23 | 45.33 | 64 | 1.77 | 1.17 | 3.5 |
| 4/18/2015 16:38:23 | 48.56 | 45.66 | 33 | 1.81 | 1.18 | 1.8 |
| 4/18/2015 16:38:34 | 48.88 | 45.98 | 35 | 1.81 | 1.16 | 1.9 |
| 4/18/2015 16:38:42 | 49.21 | 46.31 | 33 | 1.78 | 1.07 | 1.8 |
| 4/18/2015 16:38:48 | 49.54 | 46.64 | 60 | 1.74 | 1.05 | 3.3 |
| 4/18/2015 16:38:51 | 49.87 | 46.97 | 112 | 1.77 | 1.11 | 6.1 |
| 4/18/2015 16:39:00 | 50.20 | 47.30 | 40 | 1.80 | 1.03 | 2.2 |
| 4/18/2015 16:39:09 | 50.53 | 47.63 | 46 | 1.85 | 1.10 | 2.5 |
| 4/18/2015 16:39:16 | 50.76 | 47.86 | 34 | 1.75 | 1.19 | 1.9 |

## D57 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:35:38

**End Date:**
4/18/2015 16:40:15

**Operator Note:**
'2.9 3.2 c Auto Complete'

**Northing:**
369,868.10

**Easting:**
255,675.99

**Tide (feet):**
2.90



## Hole: D58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 8:58:44 | 30.84 | 30.04 | 1,069 | 0.26 | 0.33 | 58.5 |
| 4/18/2015 8:58:45 | 31.17 | 30.37 | 1,069 | 0.31 | 0.33 | 58.5 |
| 4/18/2015 8:58:45 | 31.50 | 30.70 | 1,069 | 0.31 | 0.33 | 58.5 |
| 4/18/2015 8:58:45 | 31.82 | 31.02 | 1,072 | 0.30 | 0.33 | 58.6 |
| 4/18/2015 8:58:46 | 32.15 | 31.35 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/18/2015 8:58:46 | 32.48 | 31.68 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/18/2015 8:58:46 | 32.81 | 32.01 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/18/2015 8:58:47 | 33.14 | 32.34 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 8:58:48 | 33.46 | 32.66 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 8:58:48 | 33.79 | 32.99 | 1,070 | 0.29 | 0.33 | 58.5 |
| 4/18/2015 8:58:48 | 34.12 | 33.32 | 1,070 | 0.29 | 0.33 | 58.5 |
| 4/18/2015 8:58:48 | 34.45 | 33.65 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 8:58:49 | 34.78 | 33.98 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 8:58:49 | 35.11 | 34.31 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 8:58:49 | 35.43 | 34.63 | 1,079 | 0.28 | 0.33 | 59.0 |
| 4/18/2015 8:58:50 | 35.76 | 34.96 | 1,070 | 0.26 | 0.33 | 58.5 |
| 4/18/2015 8:58:50 | 36.09 | 35.29 | 1,070 | 0.26 | 0.33 | 58.5 |
| 4/18/2015 8:58:50 | 36.42 | 35.62 | 1,064 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 8:58:51 | 36.75 | 35.95 | 1,052 | 0.29 | 0.34 | 57.5 |
| 4/18/2015 8:58:51 | 37.07 | 36.27 | 1,052 | 0.29 | 0.34 | 57.5 |
| 4/18/2015 8:58:51 | 37.40 | 36.60 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/18/2015 8:58:52 | 37.73 | 36.93 | 1,055 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:58:52 | 38.06 | 37.26 | 1,055 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:58:52 | 38.39 | 37.59 | 1,061 | 0.31 | 0.33 | 58.0 |
| 4/18/2015 8:58:53 | 38.71 | 37.91 | 1,064 | 0.27 | 0.33 | 58.2 |
| 4/18/2015 8:58:53 | 39.04 | 38.24 | 1,064 | 0.27 | 0.33 | 58.2 |
| 4/18/2015 8:58:53 | 39.37 | 38.57 | 1,073 | 0.28 | 0.33 | 58.7 |
| 4/18/2015 8:58:54 | 39.70 | 38.90 | 1,073 | 0.28 | 0.33 | 58.7 |
| 4/18/2015 8:58:54 | 40.03 | 39.23 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/18/2015 8:58:54 | 40.35 | 39.55 | 1,073 | 0.29 | 0.33 | 58.7 |
| 4/18/2015 8:58:55 | 40.68 | 39.88 | 1,073 | 0.29 | 0.33 | 58.7 |
| 4/18/2015 8:58:55 | 41.01 | 40.21 | 1,064 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 8:58:55 | 41.34 | 40.54 | 1,061 | 0.29 | 0.33 | 58.0 |
| 4/18/2015 8:58:56 | 41.67 | 40.87 | 1,061 | 0.29 | 0.33 | 58.0 |
| 4/18/2015 8:58:56 | 41.99 | 41.19 | 1,061 | 0.28 | 0.33 | 58.0 |
| 4/18/2015 8:58:56 | 42.32 | 41.52 | 1,058 | 0.28 | 0.33 | 57.9 |
| 4/18/2015 8:58:57 | 42.65 | 41.85 | 1,058 | 0.28 | 0.33 | 57.9 |
| 4/18/2015 8:58:57 | 42.98 | 42.18 | 1,051 | 0.28 | 0.34 | 57.5 |
| 4/18/2015 8:58:57 | 43.31 | 42.51 | 1,058 | 0.28 | 0.33 | 57.9 |
| 4/18/2015 8:58:58 | 43.64 | 42.84 | 1,058 | 0.28 | 0.33 | 57.9 |
| 4/18/2015 8:58:58 | 43.96 | 43.16 | 1,061 | 0.28 | 0.33 | 58.0 |
| 4/18/2015 8:58:59 | 44.29 | 43.49 | 1,064 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 8:58:59 | 44.62 | 43.82 | 1,064 | 0.28 | 0.33 | 58.2 |
| 4/18/2015 8:58:59 | 44.95 | 44.15 | 1,064 | 0.27 | 0.32 | 58.2 |
| 4/18/2015 8:59:00 | 45.28 | 44.48 | 1,064 | 0.27 | 0.32 | 58.2 |
| 4/18/2015 8:59:00 | 45.60 | 44.80 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/18/2015 8:59:00 | 45.93 | 45.13 | 1,067 | 0.29 | 0.33 | 58.3 |
| 4/18/2015 8:59:01 | 46.26 | 45.46 | 1,067 | 0.29 | 0.33 | 58.3 |
| 4/18/2015 8:59:01 | 46.59 | 45.79 | 1,064 | 0.29 | 0.33 | 58.2 |
| 4/18/2015 8:59:01 | 46.92 | 46.12 | 1,055 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:59:02 | 47.24 | 46.44 | 1,055 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:59:02 | 47.57 | 46.77 | 1,055 | 0.11 | 0.33 | 57.7 |
| 4/18/2015 8:59:02 | 47.90 | 47.10 | 1,054 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:59:03 | 48.23 | 47.43 | 1,054 | 0.28 | 0.33 | 57.7 |
| 4/18/2015 8:59:03 | 48.56 | 47.76 | 1,042 | 0.28 | 0.33 | 57.0 |
| 4/18/2015 8:59:03 | 48.88 | 48.08 | 1,042 | 0.27 | 0.34 | 57.0 |
| 4/18/2015 8:59:04 | 49.21 | 48.41 | 1,042 | 0.27 | 0.34 | 57.0 |
| 4/18/2015 8:59:04 | 49.54 | 48.74 | 1,046 | 0.27 | 0.34 | 57.2 |
| 4/18/2015 8:59:04 | 49.87 | 49.07 | 1,001 | 0.27 | 0.34 | 54.7 |
| 4/18/2015 8:59:05 | 50.20 | 49.40 | 1,001 | 0.27 | 0.34 | 54.7 |
| 4/18/2015 8:59:05 | 50.53 | 49.73 | 1,001 | 0.27 | 0.35 | 54.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 8:59:05 | 50.85 | 50.05 | 976 | 0.27 | 0.35 | 53.3 |
| 4/18/2015 | 8:59:06 | 51.18 | 50.38 | 924 | 0.27 | 0.36 | 50.5 |
| 4/18/2015 | 8:59:06 | 51.51 | 50.71 | 924 | 0.26 | 0.38 | 50.5 |
| 4/18/2015 | 8:59:22 | 51.84 | 51.04 | 29 | 2.69 | 0.41 | 1.6 |
| 4/18/2015 | 8:59:28 | 52.17 | 51.37 | 64 | 3.14 | 0.40 | 3.5 |
| 4/18/2015 | 8:59:34 | 52.49 | 51.69 | 52 | 2.81 | 0.40 | 2.8 |
| 4/18/2015 | 8:59:40 | 52.82 | 52.02 | 72 | 3.48 | 0.41 | 4.0 |
| 4/18/2015 | 8:59:46 | 53.15 | 52.35 | 52 | 3.03 | 0.40 | 2.8 |
| 4/18/2015 | 8:59:52 | 53.48 | 52.68 | 55 | 3.11 | 0.41 | 3.0 |
| 4/18/2015 | 8:59:54 | 53.58 | 52.78 | 55 | 3.59 | 0.42 | 3.0 |

## D58 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 8:56:29

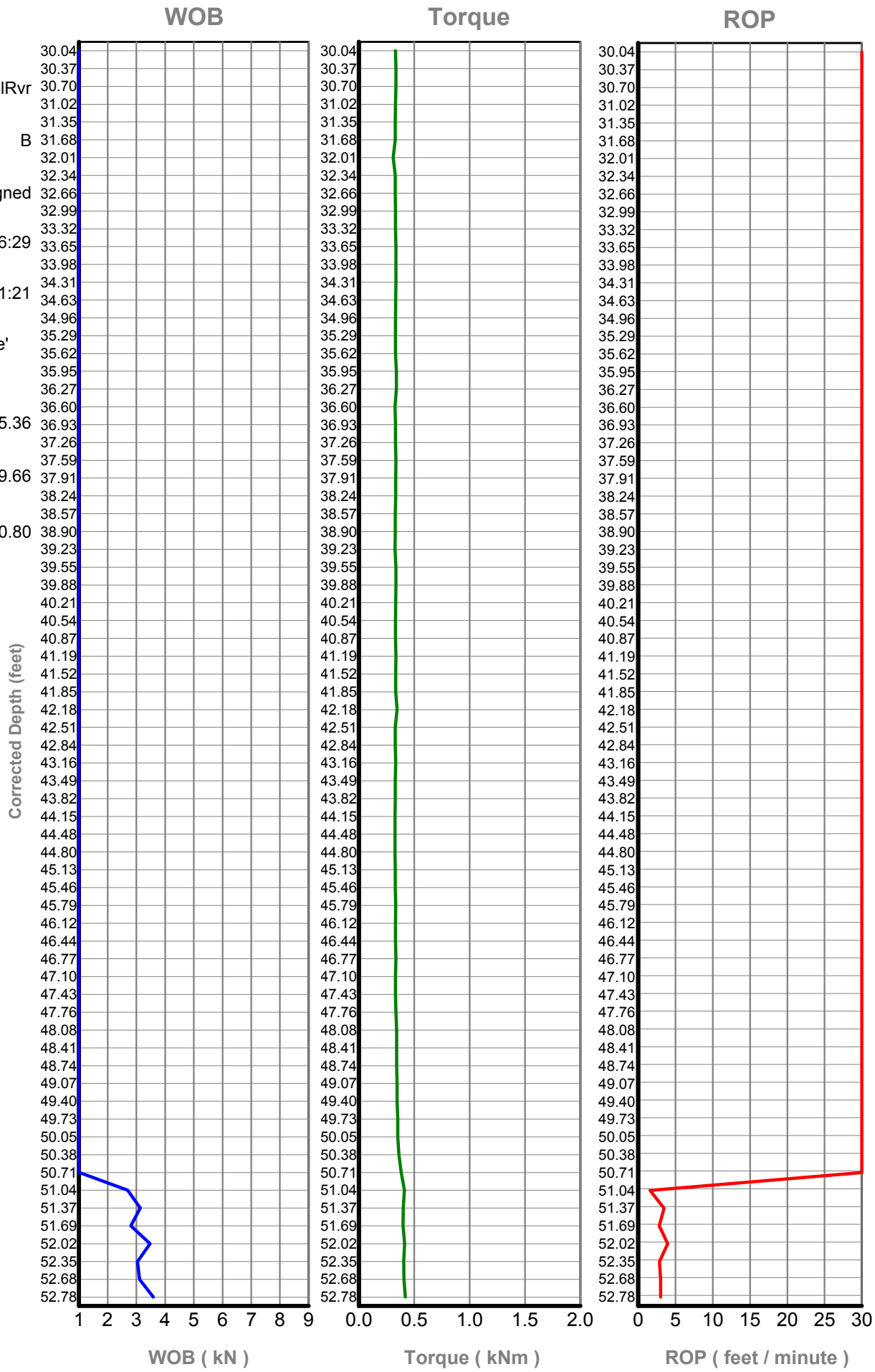
**End Date:**
4/18/2015 9:01:21

**Operator Note:**
'0.8 0.5 b Auto Complete'

**Northing:**
369,905.36

**Easting:**
255,749.66

**Tide (feet):**
0.80



## Hole: D59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:04:00 | 31.17 | 30.27 | 1,078 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 9:04:00 | 31.50 | 30.60 | 1,078 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 9:04:00 | 31.82 | 30.92 | 1,089 | 0.31 | 0.33 | 59.5 |
| 4/18/2015 9:04:01 | 32.15 | 31.25 | 1,089 | 0.31 | 0.33 | 59.5 |
| 4/18/2015 9:04:01 | 32.48 | 31.58 | 1,087 | 0.31 | 0.33 | 59.4 |
| 4/18/2015 9:04:01 | 32.81 | 31.91 | 1,078 | 0.32 | 0.32 | 58.9 |
| 4/18/2015 9:04:02 | 33.14 | 32.24 | 1,078 | 0.32 | 0.32 | 58.9 |
| 4/18/2015 9:04:02 | 33.46 | 32.56 | 1,080 | 0.31 | 0.32 | 59.1 |
| 4/18/2015 9:04:02 | 33.79 | 32.89 | 1,089 | 0.31 | 0.32 | 59.6 |
| 4/18/2015 9:04:03 | 34.12 | 33.22 | 1,089 | 0.31 | 0.32 | 59.6 |
| 4/18/2015 9:04:03 | 34.45 | 33.55 | 1,067 | 0.34 | 0.32 | 58.4 |
| 4/18/2015 9:04:03 | 34.78 | 33.88 | 1,067 | 0.32 | 0.32 | 58.4 |
| 4/18/2015 9:04:04 | 35.11 | 34.21 | 1,067 | 0.32 | 0.32 | 58.4 |
| 4/18/2015 9:04:04 | 35.43 | 34.53 | 1,060 | 0.32 | 0.32 | 58.0 |
| 4/18/2015 9:04:04 | 35.76 | 34.86 | 1,060 | 0.32 | 0.32 | 58.0 |
| 4/18/2015 9:04:04 | 36.09 | 35.19 | 1,060 | 0.31 | 0.33 | 58.0 |
| 4/18/2015 9:04:05 | 36.42 | 35.52 | 1,079 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 9:04:05 | 36.75 | 35.85 | 1,079 | 0.31 | 0.33 | 59.0 |
| 4/18/2015 9:04:05 | 37.07 | 36.17 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/18/2015 9:04:06 | 37.40 | 36.50 | 1,068 | 0.31 | 0.33 | 58.4 |
| 4/18/2015 9:04:06 | 37.73 | 36.83 | 1,068 | 0.31 | 0.33 | 58.4 |
| 4/18/2015 9:04:06 | 38.06 | 37.16 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/18/2015 9:04:07 | 38.39 | 37.49 | 1,081 | 0.31 | 0.33 | 59.1 |
| 4/18/2015 9:04:07 | 38.71 | 37.81 | 1,081 | 0.31 | 0.33 | 59.1 |
| 4/18/2015 9:04:07 | 39.04 | 38.14 | 1,081 | 0.31 | 0.34 | 59.1 |
| 4/18/2015 9:04:08 | 39.37 | 38.47 | 1,081 | 0.31 | 0.34 | 59.1 |
| 4/18/2015 9:04:08 | 39.70 | 38.80 | 1,074 | 0.32 | 0.32 | 58.7 |
| 4/18/2015 9:04:08 | 40.03 | 39.13 | 1,051 | 0.32 | 0.33 | 57.5 |
| 4/18/2015 9:04:09 | 40.35 | 39.45 | 1,051 | 0.32 | 0.33 | 57.5 |
| 4/18/2015 9:04:09 | 40.68 | 39.78 | 1,051 | 0.32 | 0.33 | 57.5 |
| 4/18/2015 9:04:09 | 41.01 | 40.11 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/18/2015 9:04:10 | 41.34 | 40.44 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/18/2015 9:04:10 | 41.67 | 40.77 | 1,070 | 0.32 | 0.34 | 58.5 |
| 4/18/2015 9:04:11 | 41.99 | 41.09 | 1,067 | 0.32 | 0.33 | 58.4 |
| 4/18/2015 9:04:11 | 42.32 | 41.42 | 1,067 | 0.32 | 0.33 | 58.4 |
| 4/18/2015 9:04:11 | 42.65 | 41.75 | 1,056 | 0.32 | 0.33 | 57.7 |
| 4/18/2015 9:04:12 | 42.98 | 42.08 | 1,085 | 0.32 | 0.33 | 59.3 |
| 4/18/2015 9:04:12 | 43.31 | 42.41 | 1,085 | 0.32 | 0.33 | 59.3 |
| 4/18/2015 9:04:12 | 43.64 | 42.74 | 1,070 | 0.32 | 0.32 | 58.5 |
| 4/18/2015 9:04:13 | 43.96 | 43.06 | 1,070 | 0.32 | 0.32 | 58.5 |
| 4/18/2015 9:04:13 | 44.29 | 43.39 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/18/2015 9:04:13 | 44.62 | 43.72 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/18/2015 9:04:14 | 44.95 | 44.05 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/18/2015 9:04:14 | 45.28 | 44.38 | 1,048 | 0.33 | 0.33 | 57.3 |
| 4/18/2015 9:04:14 | 45.60 | 44.70 | 1,048 | 0.33 | 0.33 | 57.3 |
| 4/18/2015 9:04:15 | 45.93 | 45.03 | 1,048 | 0.33 | 0.33 | 57.3 |
| 4/18/2015 9:04:15 | 46.26 | 45.36 | 1,058 | 0.32 | 0.33 | 57.9 |
| 4/18/2015 9:04:15 | 46.59 | 45.69 | 1,055 | 0.33 | 0.33 | 57.7 |
| 4/18/2015 9:04:16 | 46.92 | 46.02 | 1,055 | 0.33 | 0.33 | 57.7 |
| 4/18/2015 9:04:16 | 47.24 | 46.34 | 1,076 | 0.32 | 0.33 | 58.8 |
| 4/18/2015 9:04:16 | 47.57 | 46.67 | 1,076 | 0.32 | 0.33 | 58.8 |
| 4/18/2015 9:04:16 | 47.90 | 47.00 | 1,073 | 0.32 | 0.34 | 58.7 |
| 4/18/2015 9:04:17 | 48.23 | 47.33 | 1,065 | 0.33 | 0.34 | 58.2 |
| 4/18/2015 9:04:17 | 48.56 | 47.66 | 1,020 | 0.32 | 0.34 | 55.8 |
| 4/18/2015 9:04:18 | 48.88 | 47.98 | 1,020 | 0.32 | 0.34 | 55.8 |
| 4/18/2015 9:04:18 | 49.21 | 48.31 | 1,003 | 0.31 | 0.35 | 54.8 |
| 4/18/2015 9:04:18 | 49.54 | 48.64 | 971 | 0.27 | 0.34 | 53.1 |
| 4/18/2015 9:04:19 | 49.87 | 48.97 | 943 | 0.27 | 0.41 | 51.5 |
| 4/18/2015 9:04:20 | 50.20 | 49.30 | 627 | 0.29 | 0.35 | 34.3 |
| 4/18/2015 9:04:20 | 50.53 | 49.63 | 591 | 0.28 | 0.35 | 32.3 |
| 4/18/2015 9:04:21 | 50.85 | 49.95 | 578 | 0.26 | 0.35 | 31.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:04:22 | 51.18 | 50.28 | 561 | 0.27 | 0.35 | 30.7 |
| 4/18/2015 | 9:04:22 | 51.51 | 50.61 | 561 | 0.27 | 0.35 | 30.7 |
| 4/18/2015 | 9:04:22 | 51.84 | 50.94 | 661 | 0.27 | 0.35 | 36.2 |
| 4/18/2015 | 9:04:23 | 52.17 | 51.27 | 812 | 0.30 | 0.35 | 44.4 |
| 4/18/2015 | 9:04:23 | 52.49 | 51.59 | 825 | 0.27 | 0.35 | 45.1 |
| 4/18/2015 | 9:04:24 | 52.82 | 51.92 | 819 | 0.27 | 0.35 | 44.8 |
| 4/18/2015 | 9:04:24 | 53.15 | 52.25 | 816 | 0.27 | 0.35 | 44.6 |
| 4/18/2015 | 9:04:25 | 53.48 | 52.58 | 816 | 0.27 | 0.35 | 44.6 |
| 4/18/2015 | 9:04:25 | 53.81 | 52.91 | 814 | 0.27 | 0.34 | 44.5 |
| 4/18/2015 | 9:04:25 | 54.13 | 53.23 | 840 | 0.27 | 0.35 | 45.9 |
| 4/18/2015 | 9:04:26 | 54.46 | 53.56 | 841 | 0.27 | 0.35 | 46.0 |
| 4/18/2015 | 9:04:26 | 54.79 | 53.89 | 847 | 0.27 | 0.34 | 46.3 |
| 4/18/2015 | 9:04:27 | 55.12 | 54.22 | 847 | 0.27 | 0.34 | 46.3 |
| 4/18/2015 | 9:04:27 | 55.45 | 54.55 | 859 | 0.27 | 0.35 | 47.0 |
| 4/18/2015 | 9:04:27 | 55.77 | 54.87 | 859 | 0.28 | 0.44 | 47.0 |
| 4/18/2015 | 9:04:28 | 56.10 | 55.20 | 845 | 0.29 | 0.36 | 46.2 |
| 4/18/2015 | 9:04:28 | 56.43 | 55.53 | 832 | 0.30 | 0.35 | 45.5 |
| 4/18/2015 | 9:04:29 | 56.76 | 55.86 | 818 | 0.30 | 0.35 | 44.8 |
| 4/18/2015 | 9:04:30 | 57.09 | 56.19 | 818 | 0.30 | 0.35 | 44.8 |
| 4/18/2015 | 9:04:29 | 57.41 | 56.51 | 790 | 0.29 | 0.35 | 43.2 |
| 4/18/2015 | 9:04:30 | 57.74 | 56.84 | 790 | 0.30 | 0.36 | 43.2 |
| 4/18/2015 | 9:04:31 | 58.07 | 57.17 | 794 | 0.30 | 0.36 | 43.4 |
| 4/18/2015 | 9:04:31 | 58.40 | 57.50 | 770 | 0.30 | 0.36 | 42.1 |
| 4/18/2015 | 9:04:32 | 58.73 | 57.83 | 769 | 0.30 | 0.36 | 42.0 |
| 4/18/2015 | 9:04:32 | 59.06 | 58.16 | 753 | 0.29 | 0.37 | 41.2 |
| 4/18/2015 | 9:04:33 | 59.38 | 58.48 | 741 | 0.29 | 0.37 | 40.5 |
| 4/18/2015 | 9:04:33 | 59.71 | 58.81 | 684 | 0.27 | 0.38 | 37.4 |
| 4/18/2015 | 9:04:34 | 60.04 | 59.14 | 656 | 0.27 | 0.37 | 35.9 |
| 4/18/2015 | 9:04:34 | 60.37 | 59.47 | 619 | 0.27 | 0.36 | 33.8 |
| 4/18/2015 | 9:04:35 | 60.70 | 59.80 | 607 | 0.27 | 0.36 | 33.2 |
| 4/18/2015 | 9:04:35 | 61.02 | 60.12 | 616 | 0.27 | 0.36 | 33.7 |
| 4/18/2015 | 9:04:46 | 61.35 | 60.45 | 18 | 0.27 | 0.36 | 1.0 |
| 4/18/2015 | 9:04:46 | 61.64 | 60.74 | 161 | 0.24 | 0.41 | 8.8 |

## D59 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:02:35

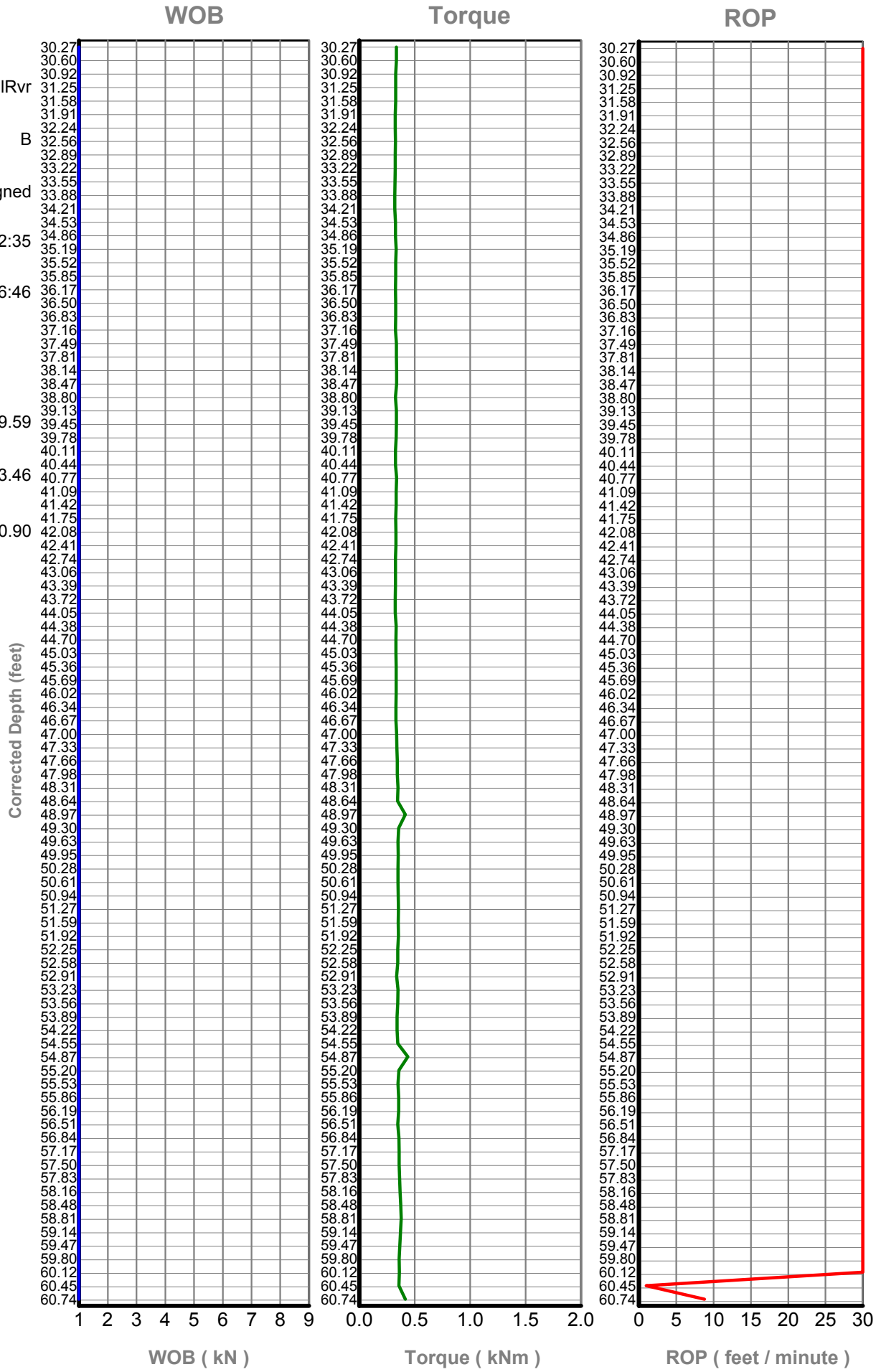
**End Date:**
4/18/2015 9:06:46

**Operator Note:**
'0.9 0.5 b No rockk'

**Northing:**
369,929.59

**Easting:**
255,803.46

**Tide (feet):**
0.90



## Hole: D6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 0:28:54 | 36.42 | 30.32 | 661 | 1.60 | 0.13 | 36.1 |
| 4/19/2015 0:28:55 | 36.75 | 30.65 | 668 | 1.60 | 0.13 | 36.5 |
| 4/19/2015 0:28:55 | 37.07 | 30.97 | 665 | 1.60 | 0.13 | 36.4 |
| 4/19/2015 0:28:56 | 37.40 | 31.30 | 668 | 1.61 | 0.13 | 36.5 |
| 4/19/2015 0:28:56 | 37.73 | 31.63 | 668 | 1.61 | 0.13 | 36.5 |
| 4/19/2015 0:28:57 | 38.06 | 31.96 | 668 | 1.60 | 0.13 | 36.5 |
| 4/19/2015 0:28:57 | 38.39 | 32.29 | 665 | 1.61 | 0.13 | 36.4 |
| 4/19/2015 0:28:58 | 38.71 | 32.61 | 665 | 1.60 | 0.13 | 36.4 |
| 4/19/2015 0:28:58 | 39.04 | 32.94 | 661 | 1.59 | 0.13 | 36.1 |
| 4/19/2015 0:28:59 | 39.37 | 33.27 | 668 | 1.61 | 0.13 | 36.5 |
| 4/19/2015 0:29:34 | 39.70 | 33.60 | 43 | 1.79 | 1.19 | 2.4 |
| 4/19/2015 0:29:41 | 40.03 | 33.93 | 63 | 1.83 | 1.19 | 3.5 |
| 4/19/2015 0:29:44 | 40.35 | 34.25 | 131 | 1.87 | 1.24 | 7.2 |
| 4/19/2015 0:29:48 | 40.68 | 34.58 | 78 | 1.83 | 1.25 | 4.3 |
| 4/19/2015 0:29:53 | 41.01 | 34.91 | 77 | 1.86 | 1.10 | 4.2 |
| 4/19/2015 0:29:54 | 41.05 | 34.95 | 87 | 1.83 | 1.17 | 4.7 |

## D6 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 0:27:30

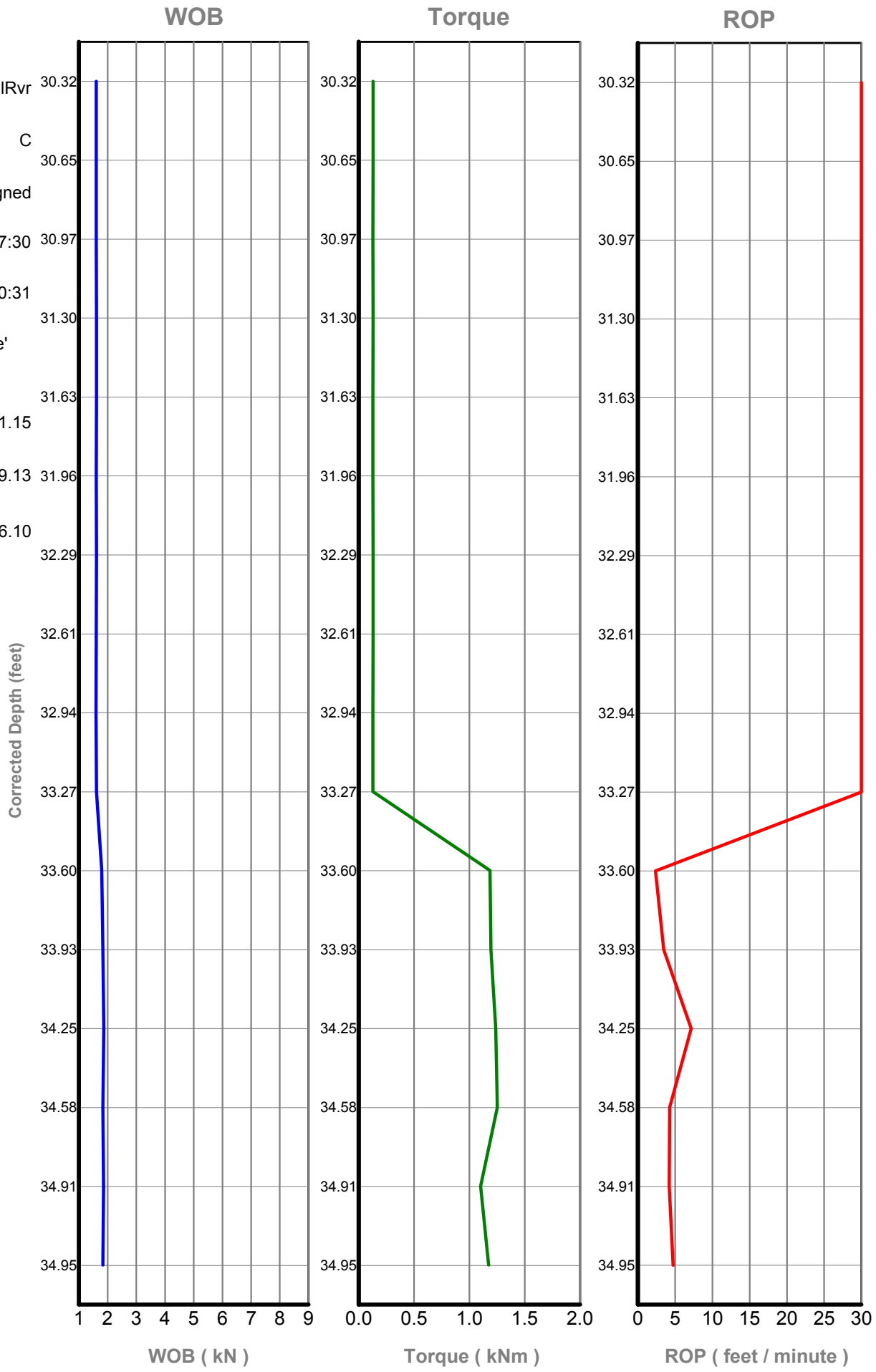
**End Date:**
4/19/2015 0:30:31

**Operator Note:**
'6.1 5.9 c Auto Complete'

**Northing:**
370,051.15

**Easting:**
255,339.13

**Tide (feet):**
6.10



## Hole: D60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:00:51 | 31.17 | 30.27 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 9:00:51 | 31.50 | 30.60 | 621 | 2.12 | 0.26 | 34.0 |
| 4/18/2015 9:00:52 | 31.82 | 30.92 | 611 | 2.13 | 0.25 | 33.4 |
| 4/18/2015 9:00:52 | 32.15 | 31.25 | 611 | 2.14 | 0.26 | 33.4 |
| 4/18/2015 9:00:53 | 32.48 | 31.58 | 618 | 2.13 | 0.26 | 33.8 |
| 4/18/2015 9:00:53 | 32.81 | 31.91 | 619 | 2.12 | 0.26 | 33.8 |
| 4/18/2015 9:00:54 | 33.14 | 32.24 | 601 | 2.12 | 0.26 | 32.9 |
| 4/18/2015 9:00:55 | 33.46 | 32.56 | 601 | 2.12 | 0.26 | 32.9 |
| 4/18/2015 9:00:56 | 33.79 | 32.89 | 622 | 2.13 | 0.25 | 34.0 |
| 4/18/2015 9:00:56 | 34.12 | 33.22 | 615 | 2.13 | 0.25 | 33.6 |
| 4/18/2015 9:00:57 | 34.45 | 33.55 | 615 | 2.12 | 0.25 | 33.6 |
| 4/18/2015 9:00:57 | 34.78 | 33.88 | 621 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 9:00:58 | 35.11 | 34.21 | 632 | 1.89 | 0.25 | 34.6 |
| 4/18/2015 9:00:58 | 35.43 | 34.53 | 619 | 2.12 | 0.25 | 33.8 |
| 4/18/2015 9:00:59 | 35.76 | 34.86 | 625 | 2.12 | 0.25 | 34.2 |
| 4/18/2015 9:00:59 | 36.09 | 35.19 | 619 | 2.13 | 0.25 | 33.8 |
| 4/18/2015 9:01:00 | 36.42 | 35.52 | 622 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 9:01:01 | 36.75 | 35.85 | 622 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 9:01:01 | 37.07 | 36.17 | 615 | 2.13 | 0.25 | 33.6 |
| 4/18/2015 9:01:02 | 37.40 | 36.50 | 621 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 9:01:02 | 37.73 | 36.83 | 621 | 2.12 | 0.25 | 34.0 |
| 4/18/2015 9:01:03 | 38.06 | 37.16 | 624 | 2.16 | 0.25 | 34.1 |
| 4/18/2015 9:01:03 | 38.39 | 37.49 | 622 | 2.16 | 0.25 | 34.0 |
| 4/18/2015 9:01:04 | 38.71 | 37.81 | 615 | 2.15 | 0.26 | 33.6 |
| 4/18/2015 9:01:04 | 39.04 | 38.14 | 615 | 2.15 | 0.26 | 33.6 |
| 4/18/2015 9:01:05 | 39.37 | 38.47 | 618 | 2.14 | 0.26 | 33.8 |
| 4/18/2015 9:01:06 | 39.70 | 38.80 | 615 | 2.12 | 0.26 | 33.6 |
| 4/18/2015 9:01:07 | 40.03 | 39.13 | 618 | 2.14 | 0.26 | 33.8 |
| 4/18/2015 9:01:07 | 40.35 | 39.45 | 629 | 2.19 | 0.25 | 34.4 |
| 4/18/2015 9:01:08 | 40.68 | 39.78 | 621 | 2.13 | 0.25 | 34.0 |
| 4/18/2015 9:01:08 | 41.01 | 40.11 | 621 | 2.13 | 0.24 | 34.0 |
| 4/18/2015 9:01:09 | 41.34 | 40.44 | 627 | 2.20 | 0.25 | 34.3 |
| 4/18/2015 9:01:09 | 41.67 | 40.77 | 630 | 2.17 | 0.25 | 34.5 |
| 4/18/2015 9:01:10 | 41.99 | 41.09 | 633 | 2.19 | 0.25 | 34.6 |
| 4/18/2015 9:01:10 | 42.32 | 41.42 | 639 | 2.19 | 0.25 | 34.9 |
| 4/18/2015 9:01:11 | 42.65 | 41.75 | 638 | 2.20 | 0.25 | 34.9 |
| 4/18/2015 9:01:11 | 42.98 | 42.08 | 642 | 2.15 | 0.26 | 35.1 |
| 4/18/2015 9:01:12 | 43.31 | 42.41 | 642 | 2.12 | 0.26 | 35.1 |
| 4/18/2015 9:01:13 | 43.64 | 42.74 | 642 | 2.13 | 0.26 | 35.1 |
| 4/18/2015 9:01:13 | 43.96 | 43.06 | 645 | 2.14 | 0.26 | 35.3 |
| 4/18/2015 9:01:14 | 44.29 | 43.39 | 642 | 2.13 | 0.26 | 35.1 |
| 4/18/2015 9:01:14 | 44.62 | 43.72 | 639 | 2.12 | 0.26 | 34.9 |
| 4/18/2015 9:01:15 | 44.95 | 44.05 | 632 | 2.12 | 0.25 | 34.6 |
| 4/18/2015 9:01:15 | 45.28 | 44.38 | 636 | 2.11 | 0.25 | 34.8 |
| 4/18/2015 9:01:16 | 45.60 | 44.70 | 633 | 2.12 | 0.25 | 34.6 |
| 4/18/2015 9:01:17 | 45.93 | 45.03 | 633 | 2.10 | 0.25 | 34.6 |
| 4/18/2015 9:01:17 | 46.26 | 45.36 | 629 | 2.12 | 0.26 | 34.4 |
| 4/18/2015 9:01:18 | 46.59 | 45.69 | 640 | 2.12 | 0.26 | 35.0 |
| 4/18/2015 9:01:18 | 46.92 | 46.02 | 637 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 9:01:19 | 47.24 | 46.34 | 637 | 2.13 | 0.26 | 34.8 |
| 4/18/2015 9:01:19 | 47.57 | 46.67 | 633 | 2.12 | 0.26 | 34.6 |
| 4/18/2015 9:01:20 | 47.90 | 47.00 | 630 | 2.13 | 0.26 | 34.5 |
| 4/18/2015 9:01:21 | 48.23 | 47.33 | 620 | 2.12 | 0.25 | 33.9 |
| 4/18/2015 9:01:21 | 48.56 | 47.66 | 621 | 2.13 | 0.25 | 33.9 |
| 4/18/2015 9:01:22 | 48.88 | 47.98 | 621 | 2.13 | 0.26 | 34.0 |
| 4/18/2015 9:01:22 | 49.21 | 48.31 | 603 | 2.16 | 0.25 | 33.0 |
| 4/18/2015 9:01:23 | 49.54 | 48.64 | 577 | 2.21 | 0.25 | 31.6 |
| 4/18/2015 9:01:24 | 49.87 | 48.97 | 468 | 2.23 | 0.26 | 25.6 |
| 4/18/2015 9:02:23 | 50.20 | 49.30 | 0 | 2.15 | 0.74 | 0.0 |
| 4/18/2015 9:02:23 | 50.53 | 49.63 | 64 | 2.14 | 0.78 | 3.5 |
| 4/18/2015 9:02:24 | 50.85 | 49.95 | 255 | 2.17 | 0.91 | 13.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:02:25 | 51.18 | 50.28 | 346 | 2.17 | 1.08 | 18.9 |
| 4/18/2015 | 9:02:26 | 51.51 | 50.61 | 462 | 2.17 | 0.99 | 25.3 |
| 4/18/2015 | 9:02:26 | 51.84 | 50.94 | 451 | 2.17 | 0.96 | 24.7 |
| 4/18/2015 | 9:02:27 | 52.17 | 51.27 | 454 | 2.17 | 0.88 | 24.8 |
| 4/18/2015 | 9:02:28 | 52.49 | 51.59 | 445 | 2.18 | 1.06 | 24.4 |
| 4/18/2015 | 9:02:29 | 52.82 | 51.92 | 439 | 2.18 | 1.07 | 24.0 |
| 4/18/2015 | 9:02:30 | 53.15 | 52.25 | 410 | 2.17 | 0.88 | 22.4 |
| 4/18/2015 | 9:02:31 | 53.48 | 52.58 | 403 | 2.17 | 0.95 | 22.0 |
| 4/18/2015 | 9:02:32 | 53.81 | 52.91 | 403 | 2.17 | 1.11 | 22.0 |
| 4/18/2015 | 9:02:33 | 54.13 | 53.23 | 417 | 2.18 | 1.11 | 22.8 |
| 4/18/2015 | 9:02:34 | 54.46 | 53.56 | 414 | 2.19 | 1.19 | 22.6 |
| 4/18/2015 | 9:02:35 | 54.79 | 53.89 | 382 | 2.19 | 0.97 | 20.9 |
| 4/18/2015 | 9:02:35 | 55.12 | 54.22 | 373 | 2.19 | 1.00 | 20.4 |
| 4/18/2015 | 9:02:36 | 55.45 | 54.55 | 364 | 2.22 | 1.11 | 19.9 |
| 4/18/2015 | 9:02:37 | 55.58 | 54.68 | 358 | 2.23 | 1.06 | 19.6 |

## D60 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 8:59:33

**End Date:**
4/18/2015 9:06:13

**Operator Note:**
'0.9 V0.5 c Auto Complete'

**Northing:**
369,960.38

**Easting:**
255,871.85

**Tide (feet):**
0.90



## Hole: D61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 5:14:38 | 33.14 | 30.04 | 554 | 0.24 | 0.37 | 30.3 |
| 4/19/2015 5:14:38 | 33.46 | 30.36 | 766 | 0.24 | 0.37 | 41.9 |
| 4/19/2015 5:14:39 | 33.79 | 30.69 | 766 | 0.24 | 0.37 | 41.9 |
| 4/19/2015 5:14:39 | 34.12 | 31.02 | 969 | 0.24 | 0.37 | 53.0 |
| 4/19/2015 5:14:39 | 34.45 | 31.35 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:40 | 34.78 | 31.68 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:40 | 35.11 | 32.01 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:14:40 | 35.43 | 32.33 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:41 | 35.76 | 32.66 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:41 | 36.09 | 32.99 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:42 | 36.42 | 33.32 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:42 | 36.75 | 33.65 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:42 | 37.07 | 33.97 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:43 | 37.40 | 34.30 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 5:14:43 | 37.73 | 34.63 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/19/2015 5:14:43 | 38.06 | 34.96 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:14:44 | 38.39 | 35.29 | 1,018 | 0.24 | 0.37 | 55.6 |
| 4/19/2015 5:14:44 | 38.71 | 35.61 | 1,018 | 0.24 | 0.37 | 55.6 |
| 4/19/2015 5:14:44 | 39.04 | 35.94 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:14:45 | 39.37 | 36.27 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:14:45 | 39.70 | 36.60 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:14:45 | 40.03 | 36.93 | 1,026 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 5:14:46 | 40.35 | 37.25 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:46 | 40.68 | 37.58 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:46 | 41.01 | 37.91 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:47 | 41.34 | 38.24 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:47 | 41.67 | 38.57 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:47 | 41.99 | 38.89 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 5:14:48 | 42.32 | 39.22 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 5:14:48 | 42.65 | 39.55 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/19/2015 5:14:48 | 42.98 | 39.88 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:14:49 | 43.31 | 40.21 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/19/2015 5:14:49 | 43.64 | 40.54 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/19/2015 5:14:49 | 43.96 | 40.86 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/19/2015 5:14:50 | 44.29 | 41.19 | 1,017 | 0.24 | 0.37 | 55.6 |
| 4/19/2015 5:14:50 | 44.62 | 41.52 | 1,017 | 0.24 | 0.37 | 55.6 |
| 4/19/2015 5:14:50 | 44.95 | 41.85 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 5:14:51 | 45.28 | 42.18 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 5:14:51 | 45.60 | 42.50 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/19/2015 5:14:51 | 45.93 | 42.83 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:52 | 46.26 | 43.16 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:53 | 46.59 | 43.49 | 1,041 | 0.24 | 0.37 | 56.9 |
| 4/19/2015 5:14:52 | 46.92 | 43.82 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:53 | 47.24 | 44.14 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 5:14:54 | 47.57 | 44.47 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/19/2015 5:14:54 | 47.90 | 44.80 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 5:14:54 | 48.23 | 45.13 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:55 | 48.56 | 45.46 | 1,038 | 0.24 | 0.37 | 56.8 |
| 4/19/2015 5:14:55 | 48.88 | 45.78 | 1,038 | 0.24 | 0.37 | 56.7 |
| 4/19/2015 5:14:55 | 49.21 | 46.11 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:14:56 | 49.54 | 46.44 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:14:56 | 49.87 | 46.77 | 1,047 | 0.24 | 0.37 | 57.3 |
| 4/19/2015 5:14:56 | 50.20 | 47.10 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 5:14:57 | 50.53 | 47.43 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 5:14:57 | 50.85 | 47.75 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 5:14:57 | 51.18 | 48.08 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:14:58 | 51.51 | 48.41 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:14:58 | 51.84 | 48.74 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 5:14:58 | 52.17 | 49.07 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:14:59 | 52.49 | 49.39 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:14:59 | 52.82 | 49.72 | 1,047 | 0.24 | 0.37 | 57.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 5:14:59 | 53.15 | 50.05 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 | 5:15:00 | 53.48 | 50.38 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 | 5:15:00 | 53.81 | 50.71 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/19/2015 | 5:15:00 | 54.13 | 51.03 | 994 | 0.24 | 0.37 | 54.4 |
| 4/19/2015 | 5:15:01 | 54.46 | 51.36 | 977 | 0.24 | 0.37 | 53.4 |
| 4/19/2015 | 5:15:01 | 54.79 | 51.69 | 977 | 0.24 | 0.37 | 53.4 |
| 4/19/2015 | 5:15:01 | 55.12 | 52.02 | 966 | 0.24 | 0.37 | 52.8 |
| 4/19/2015 | 5:15:02 | 55.45 | 52.35 | 954 | 0.24 | 0.37 | 52.2 |
| 4/19/2015 | 5:15:02 | 55.77 | 52.67 | 942 | 0.24 | 0.37 | 51.5 |
| 4/19/2015 | 5:15:03 | 56.10 | 53.00 | 942 | 0.24 | 0.37 | 51.5 |
| 4/19/2015 | 5:15:03 | 56.43 | 53.33 | 925 | 0.24 | 0.37 | 50.6 |
| 4/19/2015 | 5:15:03 | 56.76 | 53.66 | 916 | 0.24 | 0.37 | 50.1 |
| 4/19/2015 | 5:15:04 | 57.09 | 53.99 | 898 | 0.24 | 0.37 | 49.1 |
| 4/19/2015 | 5:15:05 | 57.41 | 54.31 | 898 | 0.24 | 0.37 | 49.1 |
| 4/19/2015 | 5:15:05 | 57.74 | 54.64 | 887 | 0.24 | 0.37 | 48.5 |
| 4/19/2015 | 5:15:05 | 58.07 | 54.97 | 887 | 0.24 | 0.37 | 48.5 |
| 4/19/2015 | 5:15:06 | 58.40 | 55.30 | 865 | 0.24 | 0.37 | 47.3 |
| 4/19/2015 | 5:15:06 | 58.73 | 55.63 | 847 | 0.24 | 0.37 | 46.3 |
| 4/19/2015 | 5:15:06 | 58.92 | 55.82 | 847 | 0.24 | 0.37 | 46.3 |

## D61 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 5:11:16

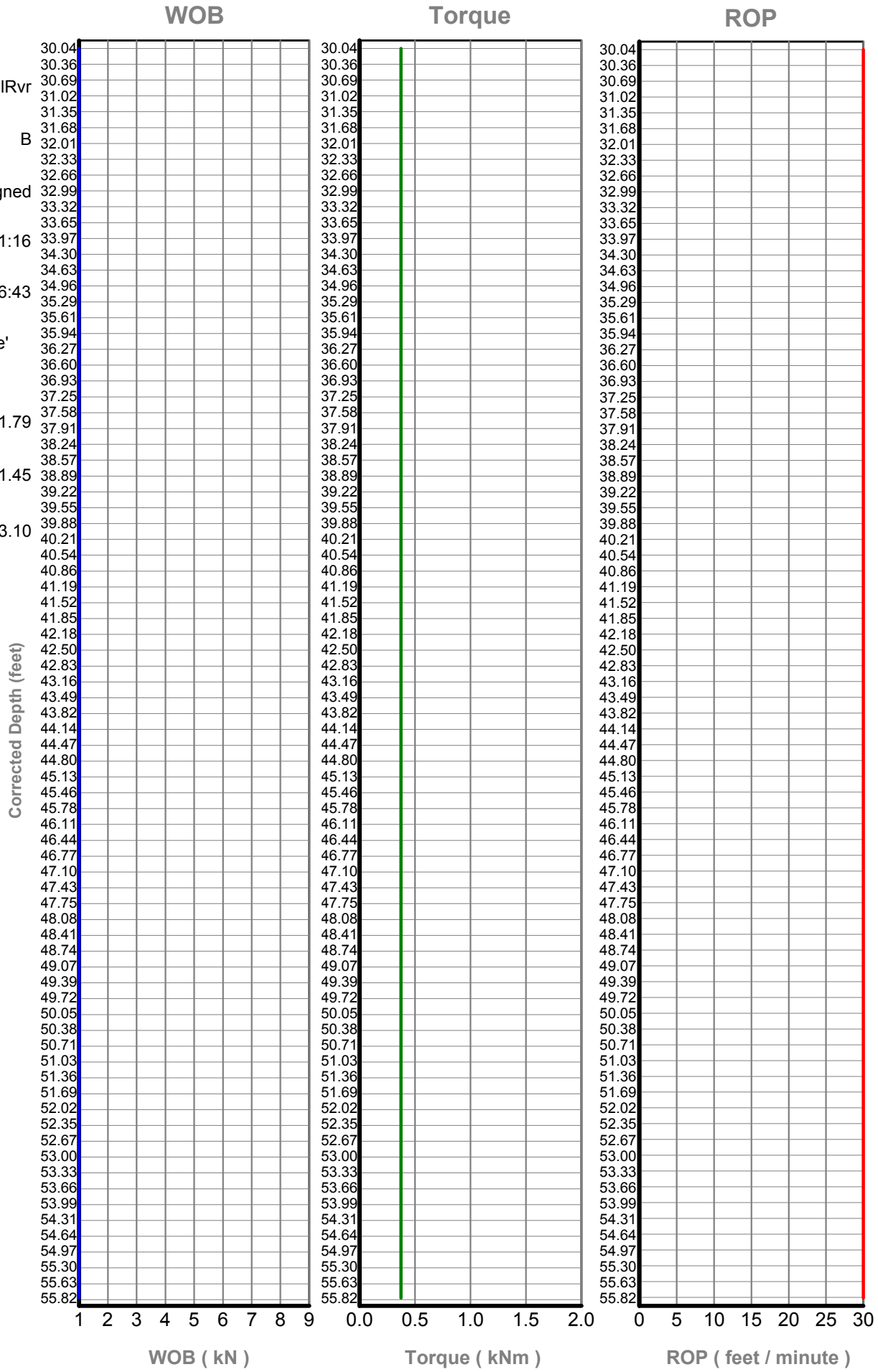
**End Date:**
4/19/2015 5:16:43

**Operator Note:**
'3.1 3.2 b Auto Complete'

**Northing:**
369,541.79

**Easting:**
255,151.45

**Tide (feet):**
3.10



## Hole: D62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 5:21:20 | 33.14 | 30.14 | 1,142 | 0.24 | 0.37 | 62.4 |
| 4/19/2015 5:21:26 | 33.46 | 30.46 | 69 | 0.24 | 0.37 | 3.8 |
| 4/19/2015 5:21:26 | 33.79 | 30.79 | 69 | 0.24 | 0.37 | 3.8 |
| 4/19/2015 5:21:26 | 34.12 | 31.12 | 289 | 0.24 | 0.37 | 15.8 |
| 4/19/2015 5:21:27 | 34.45 | 31.45 | 501 | 0.24 | 0.37 | 27.4 |
| 4/19/2015 5:21:27 | 34.78 | 31.78 | 501 | 0.24 | 0.37 | 27.4 |
| 4/19/2015 5:21:27 | 35.11 | 32.11 | 712 | 0.24 | 0.37 | 38.9 |
| 4/19/2015 5:21:28 | 35.43 | 32.43 | 934 | 0.24 | 0.37 | 51.1 |
| 4/19/2015 5:21:28 | 35.76 | 32.76 | 934 | 0.24 | 0.37 | 51.1 |
| 4/19/2015 5:21:28 | 36.09 | 33.09 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 5:21:29 | 36.42 | 33.42 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/19/2015 5:21:29 | 36.75 | 33.75 | 1,077 | 0.24 | 0.37 | 58.9 |
| 4/19/2015 5:21:29 | 37.07 | 34.07 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 5:21:30 | 37.40 | 34.40 | 1,074 | 0.24 | 0.37 | 58.7 |
| 4/19/2015 5:21:30 | 37.73 | 34.73 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/19/2015 5:21:30 | 38.06 | 35.06 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/19/2015 5:21:31 | 38.39 | 35.39 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/19/2015 5:21:31 | 38.71 | 35.71 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 5:21:32 | 39.04 | 36.04 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 5:21:32 | 39.37 | 36.37 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 5:21:32 | 39.70 | 36.70 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:33 | 40.03 | 37.03 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:33 | 40.35 | 37.35 | 1,058 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:33 | 40.68 | 37.68 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 5:21:34 | 41.01 | 38.01 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 5:21:34 | 41.34 | 38.34 | 1,052 | 0.24 | 0.37 | 57.5 |
| 4/19/2015 5:21:34 | 41.67 | 38.67 | 1,062 | 0.24 | 0.37 | 58.1 |
| 4/19/2015 5:21:35 | 41.99 | 38.99 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:21:35 | 42.32 | 39.32 | 1,053 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:21:35 | 42.65 | 39.65 | 1,056 | 0.24 | 0.37 | 57.8 |
| 4/19/2015 5:21:36 | 42.98 | 39.98 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:21:36 | 43.31 | 40.31 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/19/2015 5:21:36 | 43.64 | 40.64 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:21:37 | 43.96 | 40.96 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/19/2015 5:21:37 | 44.29 | 41.29 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/19/2015 5:21:37 | 44.62 | 41.62 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:38 | 44.95 | 41.95 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:38 | 45.28 | 42.28 | 1,064 | 0.24 | 0.37 | 58.2 |
| 4/19/2015 5:21:38 | 45.60 | 42.60 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 5:21:39 | 45.93 | 42.93 | 1,067 | 0.24 | 0.37 | 58.4 |
| 4/19/2015 5:21:39 | 46.26 | 43.26 | 1,061 | 0.24 | 0.37 | 58.0 |
| 4/19/2015 5:21:39 | 46.59 | 43.59 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:40 | 46.92 | 43.92 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/19/2015 5:21:40 | 47.24 | 44.24 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/19/2015 5:21:40 | 47.57 | 44.57 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 5:21:41 | 47.90 | 44.90 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 5:21:41 | 48.23 | 45.23 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/19/2015 5:21:41 | 48.56 | 45.56 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:21:42 | 48.88 | 45.88 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/19/2015 5:21:42 | 49.21 | 46.21 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/19/2015 5:21:43 | 49.54 | 46.54 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 5:21:43 | 49.87 | 46.87 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 5:21:44 | 50.20 | 47.20 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/19/2015 5:21:44 | 50.53 | 47.53 | 986 | 0.24 | 0.37 | 53.9 |
| 4/19/2015 5:21:44 | 50.85 | 47.85 | 983 | 0.24 | 0.37 | 53.8 |
| 4/19/2015 5:21:45 | 51.18 | 48.18 | 983 | 0.24 | 0.37 | 53.8 |
| 4/19/2015 5:21:45 | 51.51 | 48.51 | 971 | 0.24 | 0.37 | 53.1 |
| 4/19/2015 5:21:45 | 51.84 | 48.84 | 963 | 0.24 | 0.37 | 52.6 |
| 4/19/2015 5:21:46 | 52.17 | 49.17 | 939 | 0.24 | 0.37 | 51.4 |
| 4/19/2015 5:21:46 | 52.49 | 49.49 | 939 | 0.24 | 0.37 | 51.4 |
| 4/19/2015 5:21:46 | 52.82 | 49.82 | 927 | 0.24 | 0.37 | 50.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 5:21:47 | 53.15 | 50.15 | 902 | 0.24 | 0.37 | 49.3 |
| 4/19/2015 | 5:21:47 | 53.48 | 50.48 | 893 | 0.24 | 0.37 | 48.8 |
| 4/19/2015 | 5:21:48 | 53.81 | 50.81 | 876 | 0.24 | 0.37 | 47.9 |
| 4/19/2015 | 5:21:48 | 54.13 | 51.13 | 876 | 0.24 | 0.37 | 47.9 |
| 4/19/2015 | 5:21:48 | 54.46 | 51.46 | 866 | 0.24 | 0.37 | 47.4 |
| 4/19/2015 | 5:21:49 | 54.79 | 51.79 | 783 | 0.24 | 0.37 | 42.8 |
| 4/19/2015 | 5:21:50 | 55.12 | 52.12 | 715 | 0.24 | 0.37 | 39.1 |
| 4/19/2015 | 5:21:50 | 55.45 | 52.45 | 638 | 0.24 | 0.37 | 34.9 |
| 4/19/2015 | 5:21:51 | 55.77 | 52.77 | 514 | 0.24 | 0.37 | 28.1 |
| 4/19/2015 | 5:21:52 | 56.10 | 53.10 | 497 | 0.24 | 0.37 | 27.2 |
| 4/19/2015 | 5:21:52 | 56.43 | 53.43 | 477 | 0.24 | 0.37 | 26.1 |
| 4/19/2015 | 5:21:54 | 56.76 | 53.76 | 495 | 0.24 | 0.37 | 27.0 |
| 4/19/2015 | 5:21:54 | 57.09 | 54.09 | 486 | 0.24 | 0.37 | 26.6 |
| 4/19/2015 | 5:21:55 | 57.41 | 54.41 | 474 | 0.24 | 0.37 | 25.9 |
| 4/19/2015 | 5:21:57 | 57.74 | 54.74 | 343 | 0.24 | 0.37 | 18.7 |
| 4/19/2015 | 5:21:58 | 58.07 | 55.07 | 224 | 0.24 | 0.37 | 12.3 |
| 4/19/2015 | 5:21:59 | 58.29 | 55.29 | 220 | 0.24 | 0.37 | 12.0 |

## D62 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 5:20:11

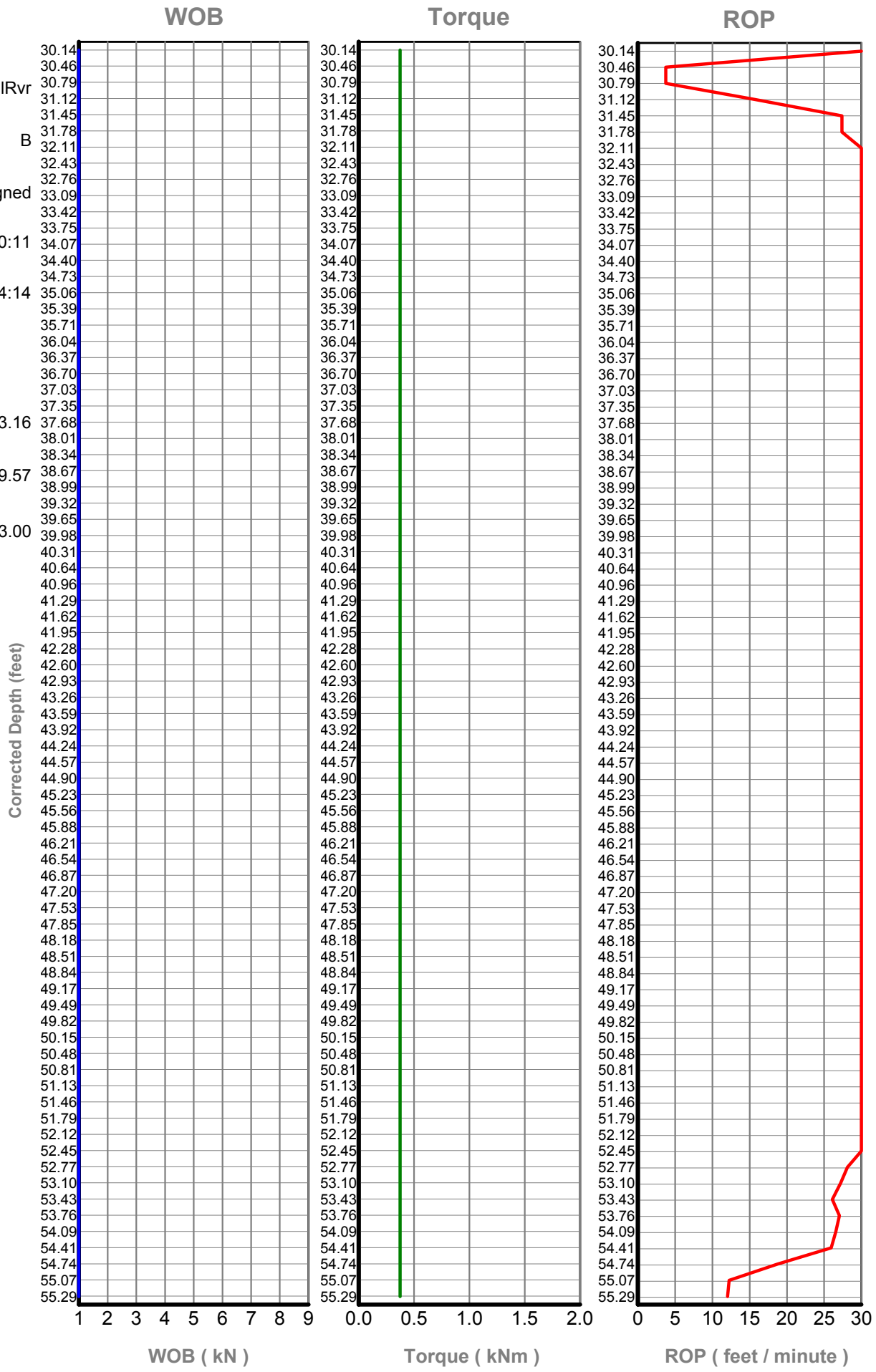
**End Date:**
4/19/2015 5:24:14

**Operator Note:**
'3 3.2 b Auto Complete'

**Northing:**
369,573.16

**Easting:**
255,219.57

**Tide (feet):**
3.00



## Hole: D63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 5:25:29 | 33.14 | 30.14 | 607 | 1.57 | 0.13 | 33.2 |
| 4/19/2015 5:25:30 | 33.46 | 30.46 | 607 | 1.57 | 0.13 | 33.2 |
| 4/19/2015 5:25:30 | 33.79 | 30.79 | 607 | 1.56 | 0.13 | 33.2 |
| 4/19/2015 5:25:31 | 34.12 | 31.12 | 607 | 1.57 | 0.13 | 33.2 |
| 4/19/2015 5:25:32 | 34.45 | 31.45 | 604 | 1.57 | 0.13 | 33.0 |
| 4/19/2015 5:25:33 | 34.78 | 31.78 | 604 | 1.57 | 0.13 | 33.0 |
| 4/19/2015 5:25:33 | 35.11 | 32.11 | 598 | 1.57 | 0.13 | 32.7 |
| 4/19/2015 5:25:34 | 35.43 | 32.43 | 611 | 1.57 | 0.13 | 33.4 |
| 4/19/2015 5:25:50 | 35.76 | 32.76 | 27 | 1.57 | 0.13 | 1.4 |
| 4/19/2015 5:25:51 | 36.09 | 33.09 | 138 | 1.58 | 0.13 | 7.5 |
| 4/19/2015 5:25:51 | 36.42 | 33.42 | 256 | 1.58 | 0.13 | 14.0 |
| 4/19/2015 5:25:52 | 36.75 | 33.75 | 370 | 1.57 | 0.13 | 20.2 |
| 4/19/2015 5:25:53 | 37.07 | 34.07 | 578 | 1.57 | 0.13 | 31.6 |
| 4/19/2015 5:25:54 | 37.40 | 34.40 | 581 | 1.58 | 0.13 | 31.8 |
| 4/19/2015 5:25:54 | 37.73 | 34.73 | 580 | 1.58 | 0.13 | 31.7 |
| 4/19/2015 5:25:55 | 38.06 | 35.06 | 587 | 1.59 | 0.13 | 32.1 |
| 4/19/2015 5:25:55 | 38.39 | 35.39 | 584 | 1.59 | 0.13 | 31.9 |
| 4/19/2015 5:25:56 | 38.71 | 35.71 | 587 | 1.57 | 0.13 | 32.1 |
| 4/19/2015 5:25:57 | 39.04 | 36.04 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:25:57 | 39.37 | 36.37 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:25:58 | 39.70 | 36.70 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:25:58 | 40.03 | 37.03 | 578 | 1.57 | 0.13 | 31.6 |
| 4/19/2015 5:25:59 | 40.35 | 37.35 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:25:59 | 40.68 | 37.68 | 584 | 1.56 | 0.13 | 31.9 |
| 4/19/2015 5:26:00 | 41.01 | 38.01 | 575 | 1.58 | 0.13 | 31.4 |
| 4/19/2015 5:26:01 | 41.34 | 38.34 | 575 | 1.57 | 0.13 | 31.4 |
| 4/19/2015 5:26:01 | 41.67 | 38.67 | 583 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:02 | 41.99 | 38.99 | 577 | 1.57 | 0.13 | 31.6 |
| 4/19/2015 5:26:02 | 42.32 | 39.32 | 577 | 1.58 | 0.13 | 31.6 |
| 4/19/2015 5:26:03 | 42.65 | 39.65 | 586 | 1.58 | 0.13 | 32.1 |
| 4/19/2015 5:26:04 | 42.98 | 39.98 | 584 | 1.58 | 0.13 | 31.9 |
| 4/19/2015 5:26:05 | 43.31 | 40.31 | 584 | 1.58 | 0.13 | 31.9 |
| 4/19/2015 5:26:05 | 43.64 | 40.64 | 588 | 1.57 | 0.13 | 32.1 |
| 4/19/2015 5:26:06 | 43.96 | 40.96 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:06 | 44.29 | 41.29 | 584 | 1.58 | 0.13 | 31.9 |
| 4/19/2015 5:26:07 | 44.62 | 41.62 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:08 | 44.95 | 41.95 | 571 | 1.58 | 0.13 | 31.2 |
| 4/19/2015 5:26:08 | 45.28 | 42.28 | 571 | 1.59 | 0.13 | 31.2 |
| 4/19/2015 5:26:09 | 45.60 | 42.60 | 577 | 1.58 | 0.13 | 31.6 |
| 4/19/2015 5:26:09 | 45.93 | 42.93 | 580 | 1.57 | 0.12 | 31.7 |
| 4/19/2015 5:26:10 | 46.26 | 43.26 | 583 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:11 | 46.59 | 43.59 | 570 | 1.58 | 0.13 | 31.2 |
| 4/19/2015 5:26:11 | 46.92 | 43.92 | 588 | 1.58 | 0.13 | 32.2 |
| 4/19/2015 5:26:12 | 47.24 | 44.24 | 583 | 1.57 | 0.15 | 31.9 |
| 4/19/2015 5:26:12 | 47.57 | 44.57 | 583 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:13 | 47.90 | 44.90 | 580 | 1.58 | 0.13 | 31.7 |
| 4/19/2015 5:26:13 | 48.23 | 45.23 | 593 | 1.57 | 0.13 | 32.4 |
| 4/19/2015 5:26:15 | 48.56 | 45.56 | 583 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:15 | 48.88 | 45.88 | 581 | 1.56 | 0.13 | 31.7 |
| 4/19/2015 5:26:16 | 49.21 | 46.21 | 587 | 1.58 | 0.13 | 32.1 |
| 4/19/2015 5:26:16 | 49.54 | 46.54 | 584 | 1.58 | 0.13 | 31.9 |
| 4/19/2015 5:26:17 | 49.87 | 46.87 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:17 | 50.20 | 47.20 | 584 | 1.59 | 0.13 | 31.9 |
| 4/19/2015 5:26:18 | 50.53 | 47.53 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:19 | 50.85 | 47.85 | 584 | 1.55 | 0.13 | 31.9 |
| 4/19/2015 5:26:19 | 51.18 | 48.18 | 581 | 1.58 | 0.13 | 31.8 |
| 4/19/2015 5:26:20 | 51.51 | 48.51 | 584 | 1.58 | 0.13 | 31.9 |
| 4/19/2015 5:26:20 | 51.84 | 48.84 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:21 | 52.17 | 49.17 | 578 | 1.58 | 0.13 | 31.6 |
| 4/19/2015 5:26:22 | 52.49 | 49.49 | 584 | 1.57 | 0.13 | 31.9 |
| 4/19/2015 5:26:22 | 52.82 | 49.82 | 581 | 1.57 | 0.13 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 5:26:23 | 53.15 | 50.15 | 578 | 1.57 | 0.13 | 31.6 |
| 4/19/2015 | 5:26:23 | 53.48 | 50.48 | 578 | 1.57 | 0.13 | 31.6 |
| 4/19/2015 | 5:26:24 | 53.81 | 50.81 | 584 | 1.55 | 0.13 | 31.9 |
| 4/19/2015 | 5:26:25 | 54.13 | 51.13 | 581 | 1.58 | 0.13 | 31.8 |
| 4/19/2015 | 5:26:26 | 54.46 | 51.46 | 574 | 1.60 | 0.13 | 31.4 |
| 4/19/2015 | 5:26:26 | 54.79 | 51.79 | 584 | 1.57 | 0.13 | 32.0 |
| 4/19/2015 | 5:26:27 | 55.12 | 52.12 | 582 | 1.58 | 0.13 | 31.8 |
| 4/19/2015 | 5:26:27 | 55.45 | 52.45 | 579 | 1.59 | 0.13 | 31.6 |
| 4/19/2015 | 5:26:28 | 55.77 | 52.77 | 579 | 1.59 | 0.13 | 31.7 |
| 4/19/2015 | 5:26:29 | 56.10 | 53.10 | 569 | 1.58 | 0.13 | 31.1 |
| 4/19/2015 | 5:26:29 | 56.43 | 53.43 | 569 | 1.58 | 0.13 | 31.1 |
| 4/19/2015 | 5:26:30 | 56.76 | 53.76 | 566 | 1.59 | 0.13 | 30.9 |
| 4/19/2015 | 5:26:30 | 57.09 | 54.09 | 572 | 1.58 | 0.13 | 31.3 |
| 4/19/2015 | 5:26:31 | 57.41 | 54.41 | 569 | 1.59 | 0.13 | 31.1 |
| 4/19/2015 | 5:26:32 | 57.74 | 54.74 | 567 | 1.59 | 0.13 | 31.0 |
| 4/19/2015 | 5:26:32 | 58.07 | 55.07 | 573 | 1.59 | 0.13 | 31.3 |
| 4/19/2015 | 5:26:33 | 58.40 | 55.40 | 569 | 1.57 | 0.13 | 31.1 |
| 4/19/2015 | 5:26:33 | 58.73 | 55.73 | 567 | 1.59 | 0.13 | 31.0 |

## D63 - Summary

**Pattern Number:**
AreaD_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/19/2015 5:23:18

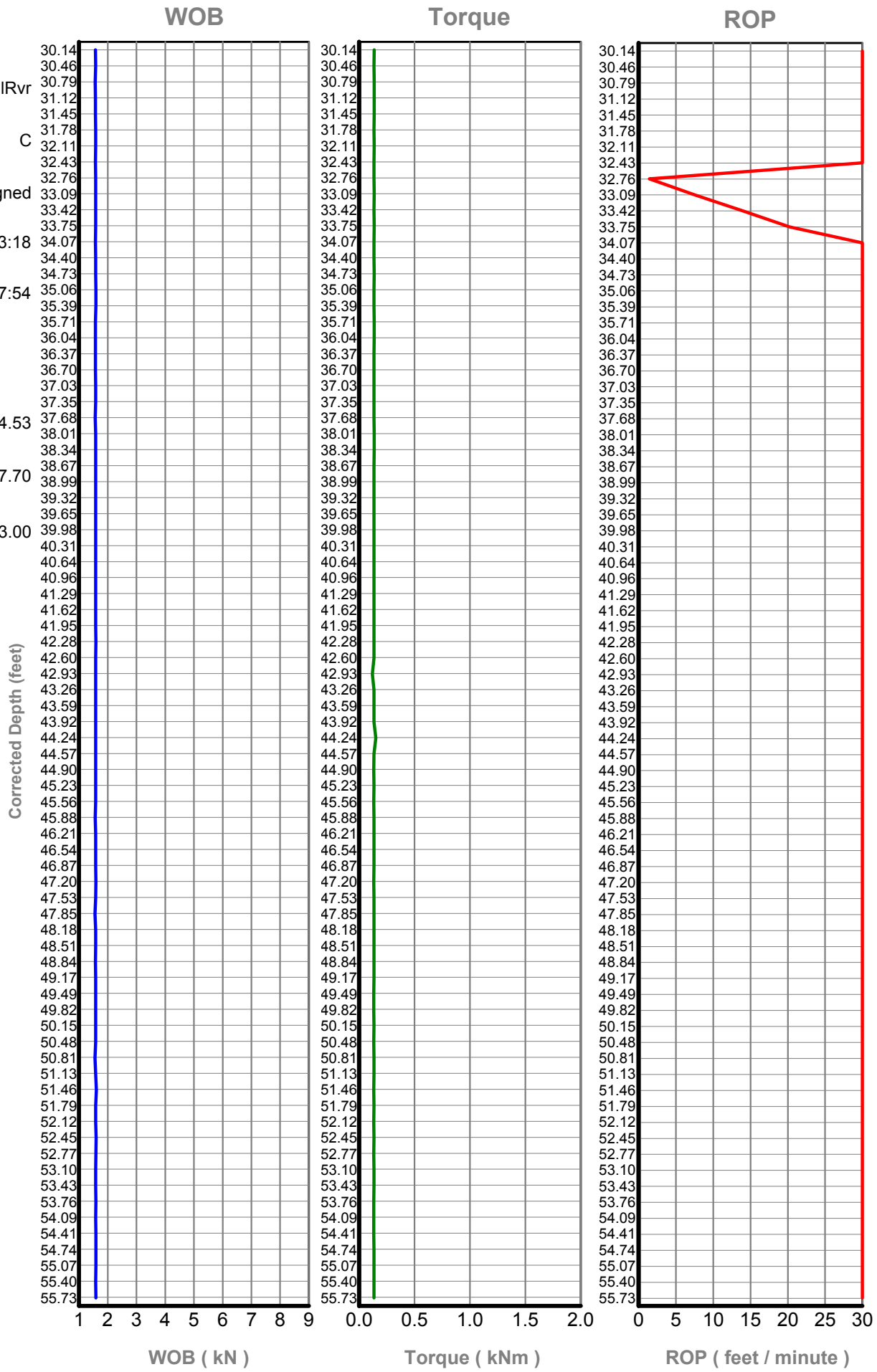
**End Date:**
4/19/2015 5:27:54

**Operator Note:**
'3 3.5 c Auto Complete'

**Northing:**
369,604.53

**Easting:**
255,287.70

**Tide (feet):**
3.00



## Hole: D64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:20:13 | 31.17 | 30.17 | 940 | 0.24 | 0.37 | 51.4 |
| 4/18/2015 21:20:13 | 31.50 | 30.50 | 961 | 0.24 | 0.37 | 52.5 |
| 4/18/2015 21:20:13 | 31.82 | 30.82 | 969 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 21:20:14 | 32.15 | 31.15 | 969 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 21:20:14 | 32.48 | 31.48 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 21:20:14 | 32.81 | 31.81 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 21:20:15 | 33.14 | 32.14 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 21:20:15 | 33.46 | 32.46 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 21:20:15 | 33.79 | 32.79 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:20:16 | 34.12 | 33.12 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 21:20:16 | 34.45 | 33.45 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 21:20:16 | 34.78 | 33.78 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 21:20:17 | 35.11 | 34.11 | 992 | 0.24 | 0.37 | 54.3 |
| 4/18/2015 21:20:17 | 35.43 | 34.43 | 992 | 0.24 | 0.37 | 54.3 |
| 4/18/2015 21:20:18 | 35.76 | 34.76 | 993 | 0.24 | 0.37 | 54.3 |
| 4/18/2015 21:20:18 | 36.09 | 35.09 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 21:20:19 | 36.42 | 35.42 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 21:20:19 | 36.75 | 35.75 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:20:19 | 37.07 | 36.07 | 983 | 0.24 | 0.37 | 53.7 |
| 4/18/2015 21:20:20 | 37.40 | 36.40 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 21:20:20 | 37.73 | 36.73 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 21:20:20 | 38.06 | 37.06 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 21:20:21 | 38.39 | 37.39 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 21:20:21 | 38.71 | 37.71 | 983 | 0.24 | 0.37 | 53.8 |
| 4/18/2015 21:20:21 | 39.04 | 38.04 | 971 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 21:20:22 | 39.37 | 38.37 | 972 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 21:20:22 | 39.70 | 38.70 | 972 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 21:20:22 | 40.03 | 39.03 | 975 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 21:20:50 | 40.35 | 39.35 | 3 | 0.24 | 0.37 | 0.2 |
| 4/18/2015 21:20:51 | 40.68 | 39.68 | 180 | 0.24 | 0.37 | 9.8 |
| 4/18/2015 21:20:51 | 41.01 | 40.01 | 385 | 0.24 | 0.37 | 21.1 |
| 4/18/2015 21:20:52 | 41.34 | 40.34 | 385 | 0.24 | 0.37 | 21.1 |
| 4/18/2015 21:20:52 | 41.67 | 40.67 | 588 | 0.24 | 0.37 | 32.2 |
| 4/18/2015 21:20:53 | 41.99 | 40.99 | 803 | 0.24 | 0.37 | 43.9 |
| 4/18/2015 21:21:12 | 42.32 | 41.32 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 21:21:13 | 42.65 | 41.65 | 153 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 21:21:13 | 42.98 | 41.98 | 153 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 21:21:13 | 43.31 | 42.31 | 341 | 0.24 | 0.37 | 18.7 |
| 4/18/2015 21:21:14 | 43.64 | 42.64 | 539 | 0.24 | 0.37 | 29.5 |
| 4/18/2015 21:21:14 | 43.96 | 42.96 | 733 | 0.24 | 0.37 | 40.1 |
| 4/18/2015 21:21:15 | 44.29 | 43.29 | 733 | 0.24 | 0.37 | 40.1 |
| 4/18/2015 21:21:15 | 44.62 | 43.62 | 936 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 21:21:16 | 44.95 | 43.95 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 21:21:16 | 45.28 | 44.28 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 21:21:16 | 45.60 | 44.60 | 992 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 21:21:17 | 45.93 | 44.93 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:21:17 | 46.26 | 45.26 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:21:17 | 46.59 | 45.59 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 21:21:18 | 46.92 | 45.92 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 21:21:18 | 47.24 | 46.24 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 21:21:18 | 47.57 | 46.57 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 21:21:19 | 47.90 | 46.90 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:21:19 | 48.23 | 47.23 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:21:19 | 48.56 | 47.56 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 21:21:20 | 48.88 | 47.88 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 21:21:20 | 49.21 | 48.21 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 21:21:20 | 49.54 | 48.54 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 21:21:21 | 49.87 | 48.87 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 21:21:21 | 50.20 | 49.20 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:21:22 | 50.53 | 49.53 | 994 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 21:21:22 | 50.85 | 49.85 | 959 | 0.24 | 0.37 | 52.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 21:21:22 | 51.18 | 50.18 | 927 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 | 21:21:23 | 51.51 | 50.51 | 886 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 | 21:21:23 | 51.84 | 50.84 | 835 | 0.24 | 0.37 | 45.6 |
| 4/18/2015 | 21:21:24 | 52.17 | 51.17 | 817 | 0.24 | 0.37 | 44.7 |
| 4/18/2015 | 21:21:24 | 52.49 | 51.49 | 791 | 0.24 | 0.37 | 43.3 |
| 4/18/2015 | 21:21:25 | 52.82 | 51.82 | 765 | 0.24 | 0.37 | 41.8 |
| 4/18/2015 | 21:21:25 | 53.15 | 52.15 | 740 | 0.24 | 0.37 | 40.4 |
| 4/18/2015 | 21:21:26 | 53.48 | 52.48 | 740 | 0.24 | 0.37 | 40.4 |
| 4/18/2015 | 21:21:27 | 53.81 | 52.81 | 740 | 0.24 | 0.37 | 40.4 |
| 4/18/2015 | 21:21:27 | 54.13 | 53.13 | 746 | 0.24 | 0.37 | 40.8 |
| 4/18/2015 | 21:21:27 | 54.46 | 53.46 | 749 | 0.24 | 0.37 | 41.0 |
| 4/18/2015 | 21:21:28 | 54.79 | 53.79 | 752 | 0.24 | 0.37 | 41.1 |
| 4/18/2015 | 21:21:28 | 55.12 | 54.12 | 764 | 0.24 | 0.37 | 41.8 |
| 4/18/2015 | 21:21:29 | 55.45 | 54.45 | 764 | 0.24 | 0.37 | 41.8 |
| 4/18/2015 | 21:21:29 | 55.77 | 54.77 | 719 | 0.24 | 0.37 | 39.3 |
| 4/18/2015 | 21:21:32 | 55.93 | 54.93 | 155 | 0.24 | 0.37 | 8.5 |

## D64 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 21:14:29

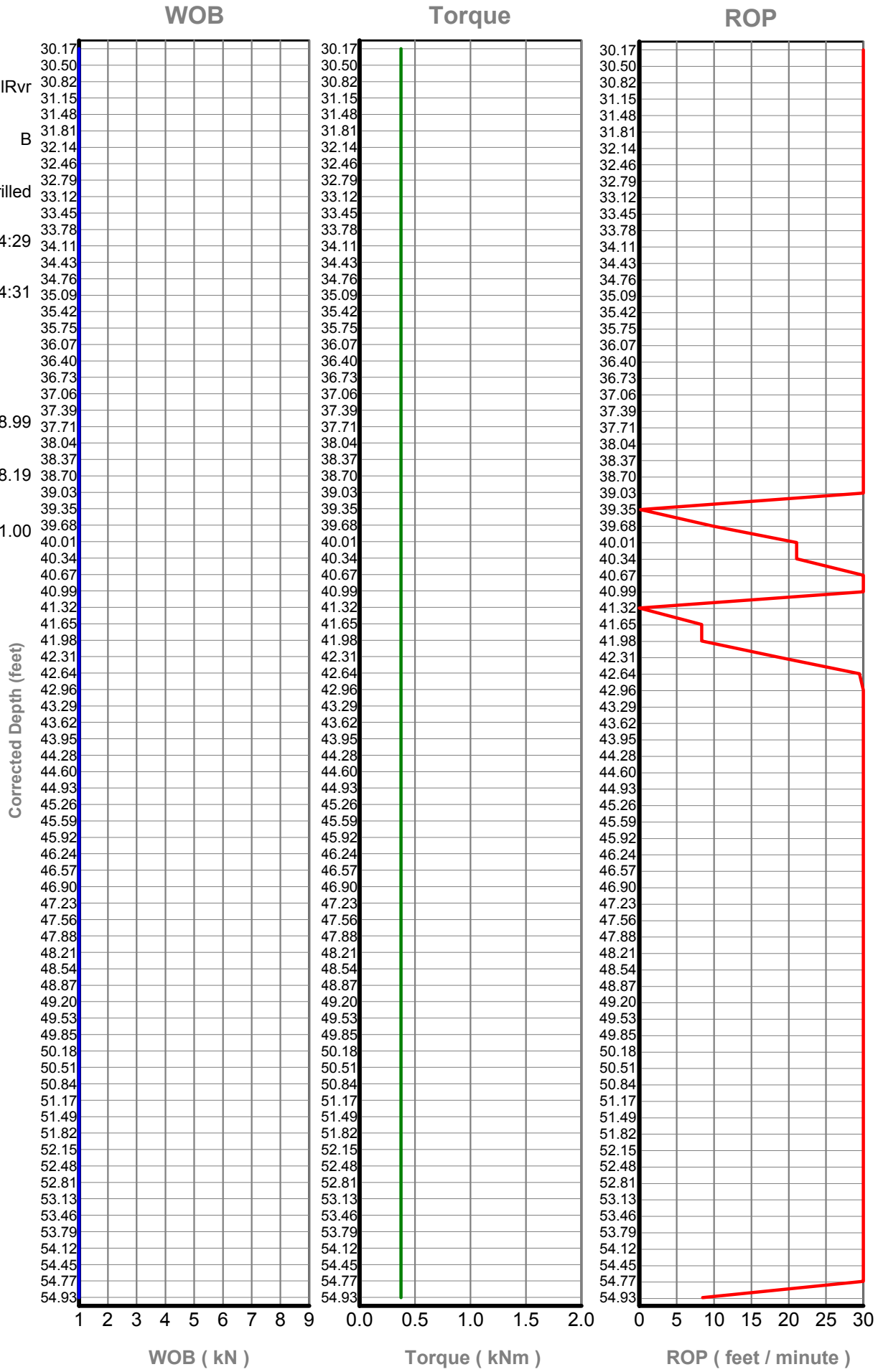
**End Date:**
4/18/2015 21:24:31

**Operator Note:**
'1 .4 b Auto Complete'

**Northing:**
369,648.99

**Easting:**
255,368.19

**Tide (feet):**
1.00



## Hole: D65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:00:43 | 30.84 | 30.04 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 21:00:43 | 31.17 | 30.37 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 21:00:43 | 31.50 | 30.70 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 21:00:44 | 31.82 | 31.02 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 21:00:44 | 32.15 | 31.35 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 21:00:44 | 32.48 | 31.68 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 21:00:45 | 32.81 | 32.01 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:45 | 33.14 | 32.34 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:45 | 33.46 | 32.66 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:46 | 33.79 | 32.99 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:46 | 34.12 | 33.32 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:46 | 34.45 | 33.65 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 21:00:47 | 34.78 | 33.98 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 21:00:47 | 35.11 | 34.31 | 1,096 | 0.24 | 0.37 | 60.0 |
| 4/18/2015 21:00:47 | 35.43 | 34.63 | 1,093 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 21:00:48 | 35.76 | 34.96 | 1,093 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 21:00:48 | 36.09 | 35.29 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 21:00:48 | 36.42 | 35.62 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:49 | 36.75 | 35.95 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:49 | 37.07 | 36.27 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:49 | 37.40 | 36.60 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:49 | 37.73 | 36.93 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 21:00:50 | 38.06 | 37.26 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 21:00:50 | 38.39 | 37.59 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 21:00:50 | 38.71 | 37.91 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 21:00:51 | 39.04 | 38.24 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:51 | 39.37 | 38.57 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 21:00:51 | 39.70 | 38.90 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 21:00:52 | 40.03 | 39.23 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 21:00:52 | 40.35 | 39.55 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 21:00:53 | 40.68 | 39.88 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 21:00:53 | 41.01 | 40.21 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 21:00:53 | 41.34 | 40.54 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 21:00:54 | 41.67 | 40.87 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 21:00:54 | 41.99 | 41.19 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 21:01:04 | 42.32 | 41.52 | 18 | 0.24 | 0.37 | 1.0 |
| 4/18/2015 21:01:05 | 42.65 | 41.85 | 206 | 0.24 | 0.37 | 11.3 |
| 4/18/2015 21:01:05 | 42.98 | 42.18 | 400 | 0.24 | 0.37 | 21.9 |
| 4/18/2015 21:01:06 | 43.31 | 42.51 | 400 | 0.24 | 0.37 | 21.9 |
| 4/18/2015 21:01:06 | 43.64 | 42.84 | 603 | 0.24 | 0.37 | 33.0 |
| 4/18/2015 21:01:06 | 43.96 | 43.16 | 797 | 0.24 | 0.37 | 43.6 |
| 4/18/2015 21:01:07 | 44.29 | 43.49 | 797 | 0.24 | 0.37 | 43.6 |
| 4/18/2015 21:01:07 | 44.62 | 43.82 | 992 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 21:01:07 | 44.95 | 44.15 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:01:08 | 45.28 | 44.48 | 1,004 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 21:01:08 | 45.60 | 44.80 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:08 | 45.93 | 45.13 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:09 | 46.26 | 45.46 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:09 | 46.59 | 45.79 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:09 | 46.92 | 46.12 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:10 | 47.24 | 46.44 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 21:01:33 | 47.57 | 46.77 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 21:01:34 | 47.90 | 47.10 | 63 | 0.24 | 0.37 | 3.4 |
| 4/18/2015 21:01:34 | 48.23 | 47.43 | 260 | 0.24 | 0.37 | 14.2 |
| 4/18/2015 21:01:35 | 48.56 | 47.76 | 454 | 0.24 | 0.37 | 24.8 |
| 4/18/2015 21:01:35 | 48.88 | 48.08 | 454 | 0.24 | 0.37 | 24.8 |
| 4/18/2015 21:01:35 | 49.21 | 48.41 | 640 | 0.24 | 0.37 | 35.0 |
| 4/18/2015 21:01:36 | 49.54 | 48.74 | 831 | 0.24 | 0.37 | 45.5 |
| 4/18/2015 21:01:36 | 49.87 | 49.07 | 831 | 0.24 | 0.37 | 45.5 |
| 4/18/2015 21:01:36 | 50.20 | 49.40 | 957 | 0.24 | 0.37 | 52.3 |
| 4/18/2015 21:01:37 | 50.53 | 49.73 | 951 | 0.24 | 0.37 | 52.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 21:01:37 | 50.85 | 50.05 | 939 | 0.24 | 0.37 | 51.4 |
| 4/18/2015 | 21:01:38 | 51.18 | 50.38 | 939 | 0.24 | 0.37 | 51.4 |
| 4/18/2015 | 21:01:38 | 51.51 | 50.71 | 936 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 | 21:01:38 | 51.84 | 51.04 | 919 | 0.24 | 0.37 | 50.3 |
| 4/18/2015 | 21:01:40 | 52.17 | 51.37 | 754 | 0.24 | 0.37 | 41.2 |
| 4/18/2015 | 21:01:41 | 52.49 | 51.69 | 515 | 0.24 | 0.37 | 28.1 |
| 4/18/2015 | 21:01:41 | 52.82 | 52.02 | 435 | 0.24 | 0.37 | 23.8 |
| 4/18/2015 | 21:01:42 | 53.15 | 52.35 | 400 | 0.24 | 0.37 | 21.9 |
| 4/18/2015 | 21:01:43 | 53.48 | 52.68 | 441 | 0.24 | 0.37 | 24.1 |
| 4/18/2015 | 21:02:16 | 53.81 | 53.01 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 | 21:02:17 | 54.13 | 53.33 | 65 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 | 21:02:18 | 54.46 | 53.66 | 294 | 0.24 | 0.37 | 16.1 |
| 4/18/2015 | 21:02:18 | 54.79 | 53.99 | 294 | 0.24 | 0.37 | 16.1 |
| 4/18/2015 | 21:02:18 | 55.12 | 54.32 | 443 | 0.24 | 0.37 | 24.2 |
| 4/18/2015 | 21:02:19 | 55.45 | 54.65 | 596 | 0.24 | 0.37 | 32.6 |
| 4/18/2015 | 21:02:19 | 55.77 | 54.97 | 654 | 0.24 | 0.37 | 35.7 |
| 4/18/2015 | 21:02:20 | 56.10 | 55.30 | 692 | 0.24 | 0.37 | 37.9 |
| 4/18/2015 | 21:02:20 | 56.33 | 55.53 | 701 | 0.24 | 0.37 | 38.3 |

## D65 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 20:58:00

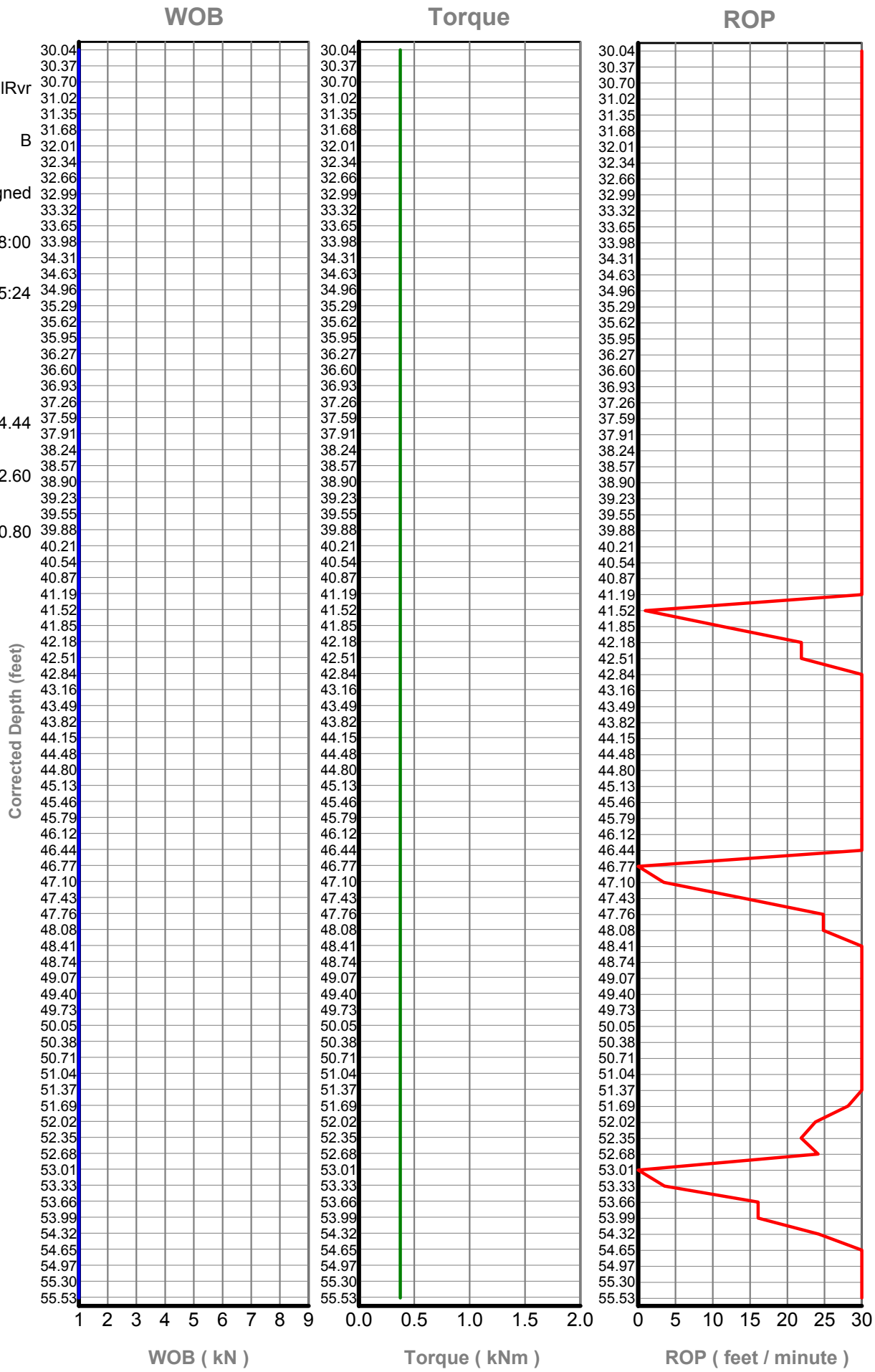
**End Date:**
4/18/2015 21:05:24

**Operator Note:**
'0.8 .4 b Auto Complete'

**Northing:**
369,674.44

**Easting:**
255,422.60

**Tide (feet):**
0.80



## Hole: D66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 21:01:01 | 30.84 | 30.04 | 694 | 1.59 | 0.14 | 38.0 |
| 4/18/2015 21:01:01 | 31.17 | 30.37 | 695 | 1.60 | 0.14 | 38.0 |
| 4/18/2015 21:01:02 | 31.50 | 30.70 | 697 | 1.60 | 0.14 | 38.1 |
| 4/18/2015 21:01:02 | 31.82 | 31.02 | 694 | 1.61 | 0.14 | 38.0 |
| 4/18/2015 21:01:03 | 32.15 | 31.35 | 700 | 1.60 | 0.14 | 38.3 |
| 4/18/2015 21:01:03 | 32.48 | 31.68 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:04 | 32.81 | 32.01 | 697 | 1.61 | 0.14 | 38.1 |
| 4/18/2015 21:01:04 | 33.14 | 32.34 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:05 | 33.46 | 32.66 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:05 | 33.79 | 32.99 | 693 | 1.61 | 0.14 | 37.9 |
| 4/18/2015 21:01:06 | 34.12 | 33.32 | 697 | 1.61 | 0.14 | 38.1 |
| 4/18/2015 21:01:06 | 34.45 | 33.65 | 694 | 1.61 | 0.14 | 37.9 |
| 4/18/2015 21:01:07 | 34.78 | 33.98 | 694 | 1.60 | 0.12 | 37.9 |
| 4/18/2015 21:01:08 | 35.11 | 34.31 | 694 | 1.61 | 0.14 | 37.9 |
| 4/18/2015 21:01:08 | 35.43 | 34.63 | 697 | 1.60 | 0.14 | 38.1 |
| 4/18/2015 21:01:09 | 35.76 | 34.96 | 697 | 1.60 | 0.14 | 38.1 |
| 4/18/2015 21:01:09 | 36.09 | 35.29 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:10 | 36.42 | 35.62 | 682 | 1.61 | 0.14 | 37.3 |
| 4/18/2015 21:01:10 | 36.75 | 35.95 | 682 | 1.60 | 0.14 | 37.3 |
| 4/18/2015 21:01:11 | 37.07 | 36.27 | 688 | 1.60 | 0.14 | 37.6 |
| 4/18/2015 21:01:11 | 37.40 | 36.60 | 689 | 1.60 | 0.14 | 37.7 |
| 4/18/2015 21:01:12 | 37.73 | 36.93 | 685 | 1.61 | 0.14 | 37.5 |
| 4/18/2015 21:01:12 | 38.06 | 37.26 | 692 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:13 | 38.39 | 37.59 | 700 | 1.61 | 0.14 | 38.3 |
| 4/18/2015 21:01:13 | 38.71 | 37.91 | 698 | 1.60 | 0.14 | 38.2 |
| 4/18/2015 21:01:14 | 39.04 | 38.24 | 690 | 1.61 | 0.14 | 37.7 |
| 4/18/2015 21:01:14 | 39.37 | 38.57 | 694 | 1.61 | 0.14 | 38.0 |
| 4/18/2015 21:01:15 | 39.70 | 38.90 | 690 | 1.62 | 0.07 | 37.7 |
| 4/18/2015 21:01:15 | 40.03 | 39.23 | 694 | 1.61 | 0.14 | 38.0 |
| 4/18/2015 21:01:16 | 40.35 | 39.55 | 690 | 1.60 | 0.14 | 37.7 |
| 4/18/2015 21:01:16 | 40.68 | 39.88 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:17 | 41.01 | 40.21 | 694 | 1.60 | 0.14 | 37.9 |
| 4/18/2015 21:01:18 | 41.34 | 40.54 | 698 | 1.62 | 0.14 | 38.2 |
| 4/18/2015 21:01:18 | 41.67 | 40.87 | 691 | 1.59 | 0.14 | 37.8 |
| 4/18/2015 21:01:19 | 41.99 | 41.19 | 694 | 1.57 | 0.14 | 37.9 |
| 4/18/2015 21:01:19 | 42.32 | 41.52 | 679 | 1.61 | 0.14 | 37.2 |
| 4/18/2015 21:01:20 | 42.65 | 41.85 | 679 | 1.61 | 0.14 | 37.2 |
| 4/18/2015 21:01:20 | 42.98 | 42.18 | 684 | 1.61 | 0.14 | 37.4 |
| 4/18/2015 21:01:21 | 43.31 | 42.51 | 685 | 1.62 | 0.14 | 37.4 |
| 4/18/2015 21:01:21 | 43.64 | 42.84 | 685 | 1.60 | 0.14 | 37.4 |
| 4/18/2015 21:01:22 | 43.96 | 43.16 | 686 | 1.60 | 0.14 | 37.5 |
| 4/18/2015 21:01:22 | 44.29 | 43.49 | 698 | 1.61 | 0.14 | 38.1 |
| 4/18/2015 21:01:23 | 44.62 | 43.82 | 688 | 1.61 | 0.14 | 37.6 |
| 4/18/2015 21:01:23 | 44.95 | 44.15 | 688 | 1.60 | 0.14 | 37.6 |
| 4/18/2015 21:01:24 | 45.28 | 44.48 | 688 | 1.60 | 0.14 | 37.6 |
| 4/18/2015 21:01:24 | 45.60 | 44.80 | 684 | 1.60 | 0.14 | 37.4 |
| 4/18/2015 21:01:25 | 45.93 | 45.13 | 691 | 1.64 | 0.14 | 37.8 |
| 4/18/2015 21:01:49 | 46.26 | 45.46 | 0 | 1.66 | 1.04 | 0.0 |
| 4/18/2015 21:02:00 | 46.59 | 45.79 | 60 | 1.81 | 1.43 | 3.3 |
| 4/18/2015 21:02:01 | 46.92 | 46.12 | 123 | 1.77 | 1.23 | 6.7 |
| 4/18/2015 21:02:02 | 47.24 | 46.44 | 228 | 1.81 | 1.22 | 12.5 |
| 4/18/2015 21:02:05 | 47.57 | 46.77 | 171 | 1.87 | 1.20 | 9.3 |
| 4/18/2015 21:02:10 | 47.90 | 47.10 | 69 | 1.85 | 1.28 | 3.8 |
| 4/18/2015 21:02:16 | 48.23 | 47.43 | 55 | 1.87 | 1.24 | 3.0 |
| 4/18/2015 21:02:22 | 48.56 | 47.76 | 61 | 1.87 | 1.30 | 3.3 |
| 4/18/2015 21:02:26 | 48.88 | 48.08 | 84 | 1.87 | 1.26 | 4.6 |
| 4/18/2015 21:02:28 | 48.98 | 48.18 | 69 | 1.87 | 1.22 | 3.8 |

## D66 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 20:59:24

**End Date:**
4/18/2015 21:03:10

**Operator Note:**
'0.8 0.44 c Auto Complete'

**Northing:**
369,705.81

**Easting:**
255,490.70

**Tide (feet):**
0.80



## Hole: D67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:50:27 | 32.81 | 30.01 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 16:50:27 | 33.14 | 30.34 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:50:27 | 33.46 | 30.66 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 16:50:27 | 33.79 | 30.99 | 1,094 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 16:50:28 | 34.12 | 31.32 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:50:29 | 34.45 | 31.65 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 16:50:29 | 34.78 | 31.98 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:50:29 | 35.11 | 32.31 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:50:30 | 35.43 | 32.63 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 16:50:30 | 35.76 | 32.96 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:30 | 36.09 | 33.29 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:31 | 36.42 | 33.62 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:31 | 36.75 | 33.95 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:31 | 37.07 | 34.27 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:31 | 37.40 | 34.60 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:32 | 37.73 | 34.93 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:50:32 | 38.06 | 35.26 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:50:32 | 38.39 | 35.59 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:33 | 38.71 | 35.91 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:33 | 39.04 | 36.24 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:33 | 39.37 | 36.57 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:34 | 39.70 | 36.90 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:34 | 40.03 | 37.23 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:34 | 40.35 | 37.55 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:35 | 40.68 | 37.88 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:35 | 41.01 | 38.21 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 16:50:35 | 41.34 | 38.54 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:36 | 41.67 | 38.87 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:36 | 41.99 | 39.19 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:36 | 42.32 | 39.52 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:37 | 42.65 | 39.85 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 16:50:37 | 42.98 | 40.18 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 16:50:37 | 43.31 | 40.51 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:50:38 | 43.64 | 40.84 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 16:50:38 | 43.96 | 41.16 | 1,070 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:50:38 | 44.29 | 41.49 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:39 | 44.62 | 41.82 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:39 | 44.95 | 42.15 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:40 | 45.28 | 42.48 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:39 | 45.60 | 42.80 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 16:50:40 | 45.93 | 43.13 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:41 | 46.26 | 43.46 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:41 | 46.59 | 43.79 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:41 | 46.92 | 44.12 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:42 | 47.24 | 44.44 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 16:50:42 | 47.57 | 44.77 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 16:50:51 | 47.90 | 45.10 | 12 | 0.24 | 0.37 | 0.6 |
| 4/18/2015 16:50:54 | 48.23 | 45.43 | 163 | 0.24 | 0.37 | 8.9 |
| 4/18/2015 16:50:54 | 48.56 | 45.76 | 163 | 0.24 | 0.37 | 8.9 |
| 4/18/2015 16:51:00 | 48.88 | 46.08 | 68 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 16:51:00 | 49.21 | 46.41 | 173 | 0.24 | 0.37 | 9.5 |
| 4/18/2015 16:51:01 | 49.54 | 46.74 | 329 | 0.24 | 0.37 | 18.0 |
| 4/18/2015 16:51:01 | 49.87 | 47.07 | 477 | 0.24 | 0.37 | 26.1 |
| 4/18/2015 16:51:02 | 50.20 | 47.40 | 622 | 0.24 | 0.37 | 34.0 |
| 4/18/2015 16:51:03 | 50.53 | 47.73 | 628 | 0.24 | 0.37 | 34.3 |
| 4/18/2015 16:51:06 | 50.85 | 48.05 | 134 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 16:51:10 | 51.18 | 48.38 | 88 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 16:51:12 | 51.51 | 48.71 | 148 | 0.24 | 0.37 | 8.1 |
| 4/18/2015 16:51:13 | 51.84 | 49.04 | 203 | 0.24 | 0.37 | 11.1 |
| 4/18/2015 16:51:15 | 52.17 | 49.37 | 259 | 0.24 | 0.37 | 14.1 |
| 4/18/2015 16:51:17 | 52.49 | 49.69 | 243 | 0.24 | 0.37 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 16:51:23 | 52.82 | 50.02 | 43 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 | 16:51:29 | 53.15 | 50.35 | 47 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 | 16:51:35 | 53.48 | 50.68 | 46 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 | 16:51:44 | 53.81 | 51.01 | 44 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 | 16:51:50 | 54.12 | 51.32 | 50 | 0.24 | 0.37 | 2.7 |

## D67 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:48:28

**End Date:**
4/18/2015 16:53:01

**Operator Note:**
'2.8 2.5 b Auto Complete'

**Northing:**
369,747.36

**Easting:**
255,571.58

**Tide (feet):**
2.80



## Hole: D68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:55:08 | 32.81 | 30.11 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 16:55:08 | 33.14 | 30.44 | 1,125 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 16:55:08 | 33.46 | 30.76 | 1,125 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 16:55:08 | 33.79 | 31.09 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 16:55:09 | 34.12 | 31.42 | 1,125 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 16:55:09 | 34.45 | 31.75 | 1,125 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 16:55:09 | 34.78 | 32.08 | 1,122 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 16:55:10 | 35.11 | 32.41 | 1,122 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 16:55:10 | 35.43 | 32.73 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 16:55:10 | 35.76 | 33.06 | 1,126 | 0.24 | 0.37 | 61.6 |
| 4/18/2015 16:55:11 | 36.09 | 33.39 | 1,126 | 0.24 | 0.37 | 61.6 |
| 4/18/2015 16:55:11 | 36.42 | 33.72 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 16:55:11 | 36.75 | 34.05 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:12 | 37.07 | 34.37 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:12 | 37.40 | 34.70 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:12 | 37.73 | 35.03 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:12 | 38.06 | 35.36 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:13 | 38.39 | 35.69 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:13 | 38.71 | 36.01 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:13 | 39.04 | 36.34 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:14 | 39.37 | 36.67 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:14 | 39.70 | 37.00 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 16:55:14 | 40.03 | 37.33 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 16:55:15 | 40.35 | 37.65 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 16:55:15 | 40.68 | 37.98 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 16:55:16 | 41.01 | 38.31 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:16 | 41.34 | 38.64 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:16 | 41.67 | 38.97 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:17 | 41.99 | 39.29 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:17 | 42.32 | 39.62 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:17 | 42.65 | 39.95 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:18 | 42.98 | 40.28 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 16:55:18 | 43.31 | 40.61 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 16:55:18 | 43.64 | 40.94 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:19 | 43.96 | 41.26 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:19 | 44.29 | 41.59 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:19 | 44.62 | 41.92 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:19 | 44.95 | 42.25 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 16:55:20 | 45.28 | 42.58 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:20 | 45.60 | 42.90 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:20 | 45.93 | 43.23 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 16:55:21 | 46.26 | 43.56 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 16:55:21 | 46.59 | 43.89 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 16:55:21 | 46.92 | 44.22 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 16:55:35 | 47.24 | 44.54 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 16:55:42 | 47.57 | 44.87 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 16:55:48 | 47.90 | 45.20 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 16:55:55 | 48.23 | 45.53 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 16:56:02 | 48.56 | 45.86 | 52 | 0.24 | 0.37 | 2.8 |
| 4/18/2015 16:56:05 | 48.73 | 46.03 | 50 | 0.24 | 0.37 | 2.7 |

## D68 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:53:49

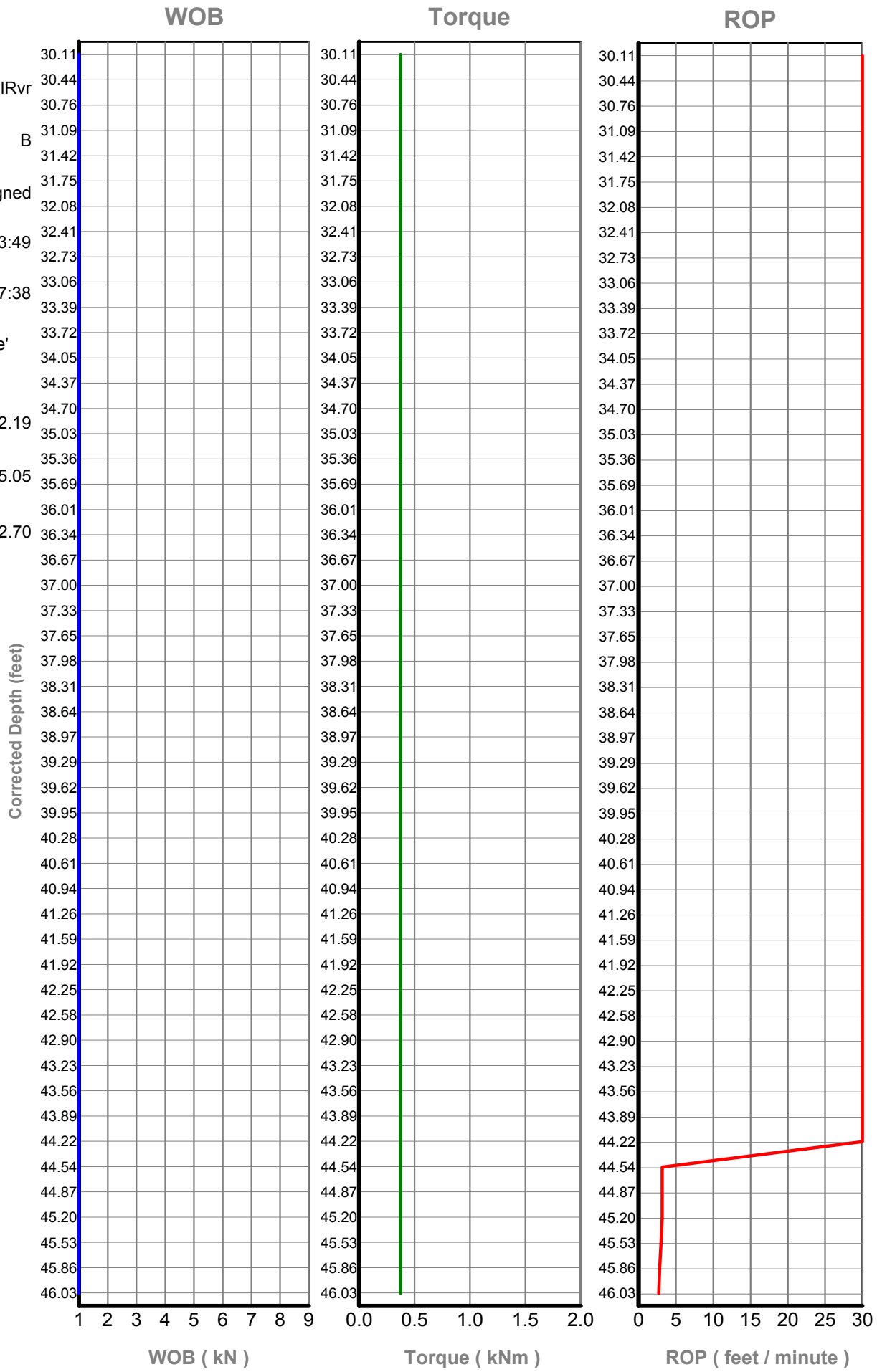
**End Date:**
4/18/2015 16:57:38

**Operator Note:**
'2.7 2.5 b Auto Complete'

**Northing:**
369,772.19

**Easting:**
255,625.05

**Tide (feet):**
2.70



## Hole: D69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 16:51:14 | 32.81 | 30.01 | 730 | 1.53 | 0.27 | 39.9 |
| 4/18/2015 16:51:15 | 33.14 | 30.34 | 734 | 1.53 | 0.27 | 40.1 |
| 4/18/2015 16:51:15 | 33.46 | 30.66 | 729 | 1.53 | 0.27 | 39.9 |
| 4/18/2015 16:51:16 | 33.79 | 30.99 | 717 | 1.52 | 0.27 | 39.2 |
| 4/18/2015 16:51:16 | 34.12 | 31.32 | 729 | 1.53 | 0.26 | 39.9 |
| 4/18/2015 16:51:17 | 34.45 | 31.65 | 718 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:51:17 | 34.78 | 31.98 | 718 | 1.52 | 0.26 | 39.2 |
| 4/18/2015 16:51:18 | 35.11 | 32.31 | 722 | 1.53 | 0.26 | 39.5 |
| 4/18/2015 16:51:18 | 35.43 | 32.63 | 722 | 1.52 | 0.26 | 39.5 |
| 4/18/2015 16:51:19 | 35.76 | 32.96 | 722 | 1.52 | 0.26 | 39.5 |
| 4/18/2015 16:51:19 | 36.09 | 33.29 | 735 | 1.53 | 0.26 | 40.2 |
| 4/18/2015 16:51:19 | 36.42 | 33.62 | 715 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 16:51:20 | 36.75 | 33.95 | 715 | 1.52 | 0.26 | 39.1 |
| 4/18/2015 16:51:20 | 37.07 | 34.27 | 733 | 1.53 | 0.26 | 40.1 |
| 4/18/2015 16:51:21 | 37.40 | 34.60 | 728 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:51:21 | 37.73 | 34.93 | 730 | 1.52 | 0.26 | 39.9 |
| 4/18/2015 16:51:22 | 38.06 | 35.26 | 725 | 1.53 | 0.26 | 39.7 |
| 4/18/2015 16:51:23 | 38.39 | 35.59 | 737 | 1.53 | 0.26 | 40.3 |
| 4/18/2015 16:51:23 | 38.71 | 35.91 | 736 | 1.53 | 0.26 | 40.2 |
| 4/18/2015 16:51:24 | 39.04 | 36.24 | 729 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:51:24 | 39.37 | 36.57 | 729 | 1.53 | 0.26 | 39.8 |
| 4/18/2015 16:51:25 | 39.70 | 36.90 | 724 | 1.53 | 0.26 | 39.6 |
| 4/18/2015 16:51:25 | 40.03 | 37.23 | 731 | 1.53 | 0.26 | 40.0 |
| 4/18/2015 16:51:26 | 40.35 | 37.55 | 724 | 1.52 | 0.26 | 39.6 |
| 4/18/2015 16:51:26 | 40.68 | 37.88 | 713 | 1.53 | 0.25 | 39.0 |
| 4/18/2015 16:51:27 | 41.01 | 38.21 | 713 | 1.52 | 0.26 | 39.0 |
| 4/18/2015 16:51:27 | 41.34 | 38.54 | 713 | 1.52 | 0.26 | 39.0 |
| 4/18/2015 16:51:27 | 41.67 | 38.87 | 724 | 1.53 | 0.26 | 39.6 |
| 4/18/2015 16:51:28 | 41.99 | 39.19 | 721 | 1.54 | 0.26 | 39.4 |
| 4/18/2015 16:51:28 | 42.32 | 39.52 | 715 | 1.53 | 0.26 | 39.1 |
| 4/18/2015 16:51:29 | 42.65 | 39.85 | 708 | 1.53 | 0.26 | 38.7 |
| 4/18/2015 16:51:29 | 42.98 | 40.18 | 717 | 1.53 | 0.26 | 39.2 |
| 4/18/2015 16:51:30 | 43.31 | 40.51 | 704 | 1.54 | 0.26 | 38.5 |
| 4/18/2015 16:51:30 | 43.64 | 40.84 | 708 | 1.53 | 0.26 | 38.7 |
| 4/18/2015 16:51:31 | 43.96 | 41.16 | 704 | 1.53 | 0.26 | 38.5 |
| 4/18/2015 16:51:31 | 44.29 | 41.49 | 716 | 1.55 | 0.26 | 39.1 |
| 4/18/2015 16:51:32 | 44.62 | 41.82 | 708 | 1.54 | 0.26 | 38.7 |
| 4/18/2015 16:51:32 | 44.95 | 42.15 | 713 | 1.52 | 0.26 | 39.0 |
| 4/18/2015 16:51:33 | 45.28 | 42.48 | 705 | 1.53 | 0.26 | 38.6 |
| 4/18/2015 16:51:34 | 45.60 | 42.80 | 708 | 1.54 | 0.26 | 38.7 |
| 4/18/2015 16:51:34 | 45.93 | 43.13 | 705 | 1.53 | 0.26 | 38.6 |
| 4/18/2015 16:51:35 | 46.26 | 43.46 | 705 | 1.54 | 0.26 | 38.6 |
| 4/18/2015 16:51:35 | 46.59 | 43.79 | 701 | 1.53 | 0.26 | 38.3 |
| 4/18/2015 16:51:36 | 46.92 | 44.12 | 711 | 1.53 | 0.26 | 38.9 |
| 4/18/2015 16:51:36 | 47.24 | 44.44 | 704 | 1.53 | 0.26 | 38.5 |
| 4/18/2015 16:51:37 | 47.57 | 44.77 | 692 | 1.53 | 0.26 | 37.8 |
| 4/18/2015 16:51:37 | 47.90 | 45.10 | 692 | 1.53 | 0.26 | 37.8 |
| 4/18/2015 16:51:38 | 48.23 | 45.43 | 702 | 1.53 | 0.26 | 38.4 |
| 4/18/2015 16:51:38 | 48.56 | 45.76 | 695 | 1.53 | 0.26 | 38.0 |
| 4/18/2015 16:51:39 | 48.88 | 46.08 | 696 | 1.53 | 0.26 | 38.1 |
| 4/18/2015 16:51:39 | 49.21 | 46.41 | 704 | 1.57 | 0.26 | 38.5 |
| 4/18/2015 16:51:40 | 49.54 | 46.74 | 708 | 1.56 | 0.26 | 38.7 |
| 4/18/2015 16:51:40 | 49.87 | 47.07 | 686 | 1.58 | 0.26 | 37.5 |
| 4/18/2015 16:51:41 | 50.20 | 47.40 | 674 | 1.57 | 0.26 | 36.9 |
| 4/18/2015 16:51:41 | 50.53 | 47.73 | 636 | 1.59 | 0.26 | 34.8 |
| 4/18/2015 16:51:42 | 50.85 | 48.05 | 554 | 1.64 | 0.26 | 30.3 |
| 4/18/2015 16:51:43 | 51.18 | 48.38 | 554 | 1.65 | 0.26 | 30.3 |
| 4/18/2015 16:51:44 | 51.51 | 48.71 | 470 | 1.64 | 0.26 | 25.7 |
| 4/18/2015 16:52:25 | 51.84 | 49.04 | 77 | 1.59 | 0.82 | 4.2 |
| 4/18/2015 16:52:26 | 52.17 | 49.37 | 177 | 1.69 | 1.13 | 9.7 |
| 4/18/2015 16:52:28 | 52.49 | 49.69 | 168 | 1.72 | 1.35 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 16:52:33 | 52.82 | 50.02 | 102 | 1.60 | 1.01 | 5.6 |
| 4/18/2015 | 16:52:33 | 53.15 | 50.35 | 204 | 1.64 | 1.19 | 11.2 |
| 4/18/2015 | 16:52:34 | 53.48 | 50.68 | 335 | 1.63 | 0.85 | 18.3 |
| 4/18/2015 | 16:52:36 | 53.81 | 51.01 | 424 | 1.79 | 1.17 | 23.2 |
| 4/18/2015 | 16:52:45 | 54.13 | 51.33 | 40 | 1.73 | 1.04 | 2.2 |
| 4/18/2015 | 16:52:52 | 54.46 | 51.66 | 68 | 1.79 | 1.05 | 3.7 |
| 4/18/2015 | 16:53:02 | 54.79 | 51.99 | 34 | 1.79 | 1.15 | 1.9 |
| 4/18/2015 | 16:53:11 | 55.12 | 52.32 | 35 | 1.79 | 1.13 | 1.9 |
| 4/18/2015 | 16:53:20 | 55.45 | 52.65 | 43 | 1.78 | 1.08 | 2.4 |
| 4/18/2015 | 16:53:30 | 55.77 | 52.97 | 36 | 1.76 | 1.06 | 2.0 |
| 4/18/2015 | 16:53:31 | 55.84 | 53.04 | 48 | 1.75 | 1.18 | 2.6 |

## D69 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 16:49:48

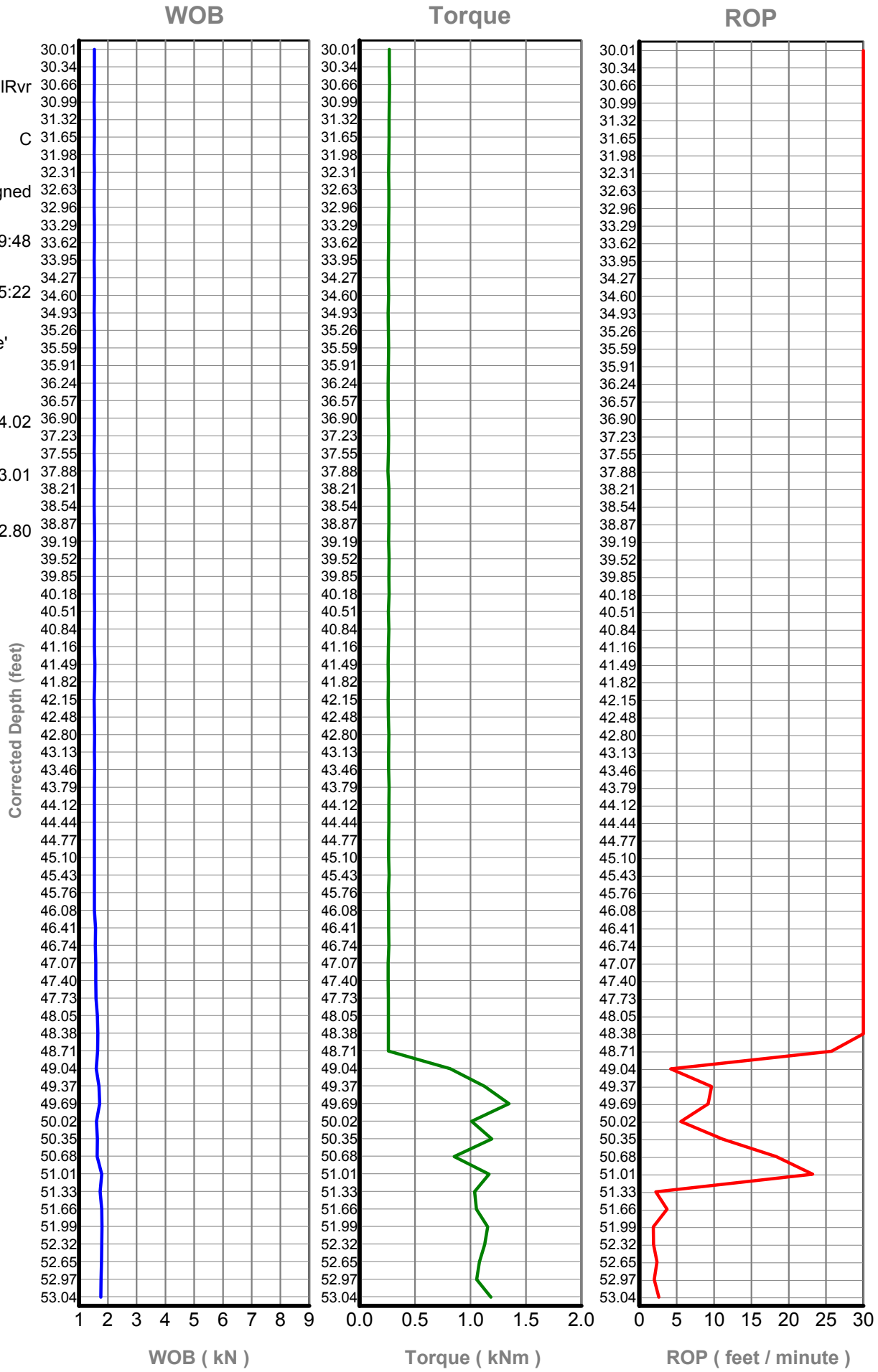
**End Date:**
4/18/2015 16:55:22

**Operator Note:**
'2.8 2.5 c Auto Complete'

**Northing:**
369,804.02

**Easting:**
255,693.01

**Tide (feet):**
2.80



## Hole: D7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:26:50 | 34.45 | 30.25 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:26:50 | 34.78 | 30.58 | 1,079 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:26:50 | 35.11 | 30.91 | 1,078 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:26:51 | 35.43 | 31.23 | 1,078 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:26:51 | 35.76 | 31.56 | 1,078 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 15:26:51 | 36.09 | 31.89 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:26:52 | 36.42 | 32.22 | 1,069 | 0.24 | 0.37 | 58.5 |
| 4/18/2015 15:26:52 | 36.75 | 32.55 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:26:52 | 37.07 | 32.87 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:26:53 | 37.40 | 33.20 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 15:26:53 | 37.73 | 33.53 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 15:26:53 | 38.06 | 33.86 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:26:54 | 38.39 | 34.19 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 15:26:54 | 38.71 | 34.51 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:26:54 | 39.04 | 34.84 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 15:27:00 | 39.37 | 35.17 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 15:27:08 | 39.70 | 35.50 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:27:14 | 40.03 | 35.83 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 15:27:16 | 40.35 | 36.15 | 96 | 0.24 | 0.37 | 5.2 |
| 4/18/2015 15:27:17 | 40.68 | 36.48 | 158 | 0.24 | 0.37 | 8.6 |
| 4/18/2015 15:27:20 | 41.01 | 36.81 | 164 | 0.24 | 0.37 | 9.0 |
| 4/18/2015 15:27:24 | 41.34 | 37.14 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 15:27:29 | 41.67 | 37.47 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 15:27:34 | 41.99 | 37.79 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 15:27:40 | 42.32 | 38.12 | 61 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 15:27:44 | 42.65 | 38.45 | 88 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 15:27:50 | 42.98 | 38.78 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 15:27:55 | 43.31 | 39.11 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 15:28:01 | 43.64 | 39.44 | 75 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 15:28:04 | 43.96 | 39.76 | 98 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 15:28:08 | 44.29 | 40.09 | 102 | 0.24 | 0.37 | 5.6 |
| 4/18/2015 15:28:11 | 44.62 | 40.42 | 110 | 0.24 | 0.37 | 6.0 |
| 4/18/2015 15:28:17 | 44.95 | 40.75 | 52 | 0.24 | 0.37 | 2.9 |
| 4/18/2015 15:28:24 | 45.28 | 41.08 | 51 | 0.24 | 0.37 | 2.8 |
| 4/18/2015 15:28:31 | 45.60 | 41.40 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 15:28:36 | 45.93 | 41.73 | 82 | 0.24 | 0.37 | 4.5 |
| 4/18/2015 15:28:41 | 46.26 | 42.06 | 62 | 0.24 | 0.37 | 3.4 |
| 4/18/2015 15:28:48 | 46.59 | 42.39 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 15:28:57 | 46.92 | 42.72 | 46 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 15:29:00 | 47.08 | 42.88 | 44 | 0.24 | 0.37 | 2.4 |

## D7 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:24:56

**End Date:**
4/18/2015 15:30:33

**Operator Note:**
'4.2 4.7 b Rock @ 46"

**Northing:**
370,090.95

**Easting:**
255,428.06

**Tide (feet):**
4.20



## Hole: D70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:23:58 | 31.82 | 30.22 | 1,083 | 0.31 | 0.33 | 59.2 |
| 4/18/2015 9:23:58 | 32.15 | 30.55 | 1,083 | 0.31 | 0.33 | 59.2 |
| 4/18/2015 9:23:58 | 32.48 | 30.88 | 1,097 | 0.31 | 0.33 | 60.0 |
| 4/18/2015 9:23:59 | 32.81 | 31.21 | 1,059 | 0.31 | 0.33 | 57.9 |
| 4/18/2015 9:23:59 | 33.14 | 31.54 | 1,059 | 0.31 | 0.33 | 57.9 |
| 4/18/2015 9:23:59 | 33.46 | 31.86 | 1,075 | 0.31 | 0.33 | 58.8 |
| 4/18/2015 9:24:00 | 33.79 | 32.19 | 1,075 | 0.31 | 0.33 | 58.8 |
| 4/18/2015 9:24:00 | 34.12 | 32.52 | 1,075 | 0.31 | 0.33 | 58.8 |
| 4/18/2015 9:24:00 | 34.45 | 32.85 | 1,073 | 0.31 | 0.33 | 58.7 |
| 4/18/2015 9:24:01 | 34.78 | 33.18 | 1,073 | 0.31 | 0.33 | 58.7 |
| 4/18/2015 9:24:01 | 35.11 | 33.51 | 1,083 | 0.31 | 0.32 | 59.2 |
| 4/18/2015 9:24:01 | 35.43 | 33.83 | 1,064 | 0.31 | 0.33 | 58.2 |
| 4/18/2015 9:24:02 | 35.76 | 34.16 | 1,064 | 0.31 | 0.33 | 58.2 |
| 4/18/2015 9:24:02 | 36.09 | 34.49 | 1,074 | 0.31 | 0.33 | 58.8 |
| 4/18/2015 9:24:02 | 36.42 | 34.82 | 1,091 | 0.27 | 0.33 | 59.7 |
| 4/18/2015 9:24:03 | 36.75 | 35.15 | 1,091 | 0.27 | 0.33 | 59.7 |
| 4/18/2015 9:24:03 | 37.07 | 35.47 | 1,060 | 0.27 | 0.32 | 57.9 |
| 4/18/2015 9:24:03 | 37.40 | 35.80 | 1,060 | 0.27 | 0.32 | 57.9 |
| 4/18/2015 9:24:04 | 37.73 | 36.13 | 1,060 | 0.26 | 0.33 | 57.9 |
| 4/18/2015 9:24:04 | 38.06 | 36.46 | 1,046 | 0.26 | 0.33 | 57.2 |
| 4/18/2015 9:24:04 | 38.39 | 36.79 | 1,046 | 0.26 | 0.33 | 57.2 |
| 4/18/2015 9:24:05 | 38.71 | 37.11 | 1,046 | 0.26 | 0.32 | 57.2 |
| 4/18/2015 9:24:05 | 39.04 | 37.44 | 1,077 | 0.26 | 0.33 | 58.9 |
| 4/18/2015 9:24:06 | 39.37 | 37.77 | 1,077 | 0.26 | 0.33 | 58.9 |
| 4/18/2015 9:24:06 | 39.70 | 38.10 | 1,089 | 0.26 | 0.32 | 59.5 |
| 4/18/2015 9:24:06 | 40.03 | 38.43 | 1,089 | 0.26 | 0.32 | 59.5 |
| 4/18/2015 9:24:06 | 40.35 | 38.75 | 1,078 | 0.26 | 0.32 | 59.0 |
| 4/18/2015 9:24:07 | 40.68 | 39.08 | 1,102 | 0.26 | 0.32 | 60.3 |
| 4/18/2015 9:24:07 | 41.01 | 39.41 | 1,102 | 0.26 | 0.32 | 60.3 |
| 4/18/2015 9:24:07 | 41.34 | 39.74 | 1,105 | 0.26 | 0.33 | 60.4 |
| 4/18/2015 9:24:08 | 41.67 | 40.07 | 1,075 | 0.26 | 0.33 | 58.8 |
| 4/18/2015 9:24:08 | 41.99 | 40.39 | 1,075 | 0.26 | 0.33 | 58.8 |
| 4/18/2015 9:24:08 | 42.32 | 40.72 | 1,078 | 0.28 | 0.33 | 59.0 |
| 4/18/2015 9:24:09 | 42.65 | 41.05 | 1,081 | 0.31 | 0.33 | 59.1 |
| 4/18/2015 9:24:09 | 42.98 | 41.38 | 1,081 | 0.31 | 0.33 | 59.1 |
| 4/18/2015 9:24:09 | 43.31 | 41.71 | 1,054 | 0.31 | 0.33 | 57.7 |
| 4/18/2015 9:24:10 | 43.64 | 42.04 | 1,054 | 0.31 | 0.33 | 57.7 |
| 4/18/2015 9:24:10 | 43.96 | 42.36 | 1,054 | 0.31 | 0.33 | 57.7 |
| 4/18/2015 9:24:10 | 44.29 | 42.69 | 1,065 | 0.32 | 0.33 | 58.2 |
| 4/18/2015 9:24:11 | 44.62 | 43.02 | 1,065 | 0.32 | 0.33 | 58.2 |
| 4/18/2015 9:24:11 | 44.95 | 43.35 | 1,062 | 0.29 | 0.32 | 58.1 |
| 4/18/2015 9:24:11 | 45.28 | 43.68 | 1,052 | 0.27 | 0.32 | 57.5 |
| 4/18/2015 9:24:12 | 45.60 | 44.00 | 1,052 | 0.27 | 0.32 | 57.5 |
| 4/18/2015 9:24:12 | 45.93 | 44.33 | 1,052 | 0.27 | 0.33 | 57.5 |
| 4/18/2015 9:24:12 | 46.26 | 44.66 | 1,061 | 0.27 | 0.33 | 58.0 |
| 4/18/2015 9:24:13 | 46.59 | 44.99 | 1,061 | 0.27 | 0.33 | 58.0 |
| 4/18/2015 9:24:13 | 46.92 | 45.32 | 1,081 | 0.26 | 0.32 | 59.1 |
| 4/18/2015 9:24:14 | 47.24 | 45.64 | 1,081 | 0.26 | 0.32 | 59.1 |
| 4/18/2015 9:24:13 | 47.57 | 45.97 | 1,067 | 0.27 | 0.33 | 58.4 |
| 4/18/2015 9:24:14 | 47.90 | 46.30 | 1,087 | 0.27 | 0.33 | 59.4 |
| 4/18/2015 9:24:15 | 48.23 | 46.63 | 1,087 | 0.27 | 0.33 | 59.4 |
| 4/18/2015 9:24:15 | 48.56 | 46.96 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/18/2015 9:24:15 | 48.88 | 47.28 | 1,090 | 0.26 | 0.33 | 59.6 |
| 4/18/2015 9:24:16 | 49.21 | 47.61 | 1,090 | 0.26 | 0.33 | 59.6 |
| 4/18/2015 9:24:16 | 49.54 | 47.94 | 1,079 | 0.26 | 0.34 | 59.0 |
| 4/18/2015 9:24:16 | 49.87 | 48.27 | 1,049 | 0.26 | 0.33 | 57.4 |
| 4/18/2015 9:24:17 | 50.20 | 48.60 | 1,049 | 0.26 | 0.33 | 57.4 |
| 4/18/2015 9:24:17 | 50.53 | 48.93 | 1,049 | 0.26 | 0.34 | 57.4 |
| 4/18/2015 9:24:17 | 50.85 | 49.25 | 1,028 | 0.26 | 0.33 | 56.2 |
| 4/18/2015 9:24:18 | 51.18 | 49.58 | 1,028 | 0.26 | 0.33 | 56.2 |
| 4/18/2015 9:24:18 | 51.51 | 49.91 | 999 | 0.26 | 0.34 | 54.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:24:18 | 51.84 | 50.24 | 967 | 0.26 | 0.34 | 52.9 |
| 4/18/2015 | 9:24:19 | 52.17 | 50.57 | 940 | 0.26 | 0.34 | 51.4 |
| 4/18/2015 | 9:24:19 | 52.49 | 50.89 | 940 | 0.26 | 0.34 | 51.4 |
| 4/18/2015 | 9:24:19 | 52.82 | 51.22 | 944 | 0.26 | 0.35 | 51.6 |
| 4/18/2015 | 9:24:33 | 53.15 | 51.55 | 0 | 1.65 | 0.34 | 0.0 |
| 4/18/2015 | 9:24:33 | 53.48 | 51.88 | 117 | 1.97 | 0.35 | 6.4 |
| 4/18/2015 | 9:24:34 | 53.81 | 52.21 | 302 | 1.93 | 0.34 | 16.5 |
| 4/18/2015 | 9:24:34 | 54.13 | 52.53 | 480 | 1.80 | 0.34 | 26.2 |
| 4/18/2015 | 9:24:35 | 54.46 | 52.86 | 480 | 1.80 | 0.34 | 26.2 |
| 4/18/2015 | 9:24:35 | 54.79 | 53.19 | 660 | 1.82 | 0.34 | 36.1 |
| 4/18/2015 | 9:24:36 | 55.12 | 53.52 | 857 | 1.69 | 0.35 | 46.9 |
| 4/18/2015 | 9:24:36 | 55.45 | 53.85 | 923 | 1.63 | 0.34 | 50.5 |
| 4/18/2015 | 9:24:37 | 55.77 | 54.17 | 923 | 1.63 | 0.34 | 50.5 |
| 4/18/2015 | 9:24:37 | 56.10 | 54.50 | 893 | 1.64 | 0.34 | 48.9 |
| 4/18/2015 | 9:24:38 | 56.43 | 54.83 | 820 | 1.62 | 0.34 | 44.8 |
| 4/18/2015 | 9:24:38 | 56.65 | 55.05 | 820 | 1.62 | 0.34 | 44.8 |

## D70 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:22:28

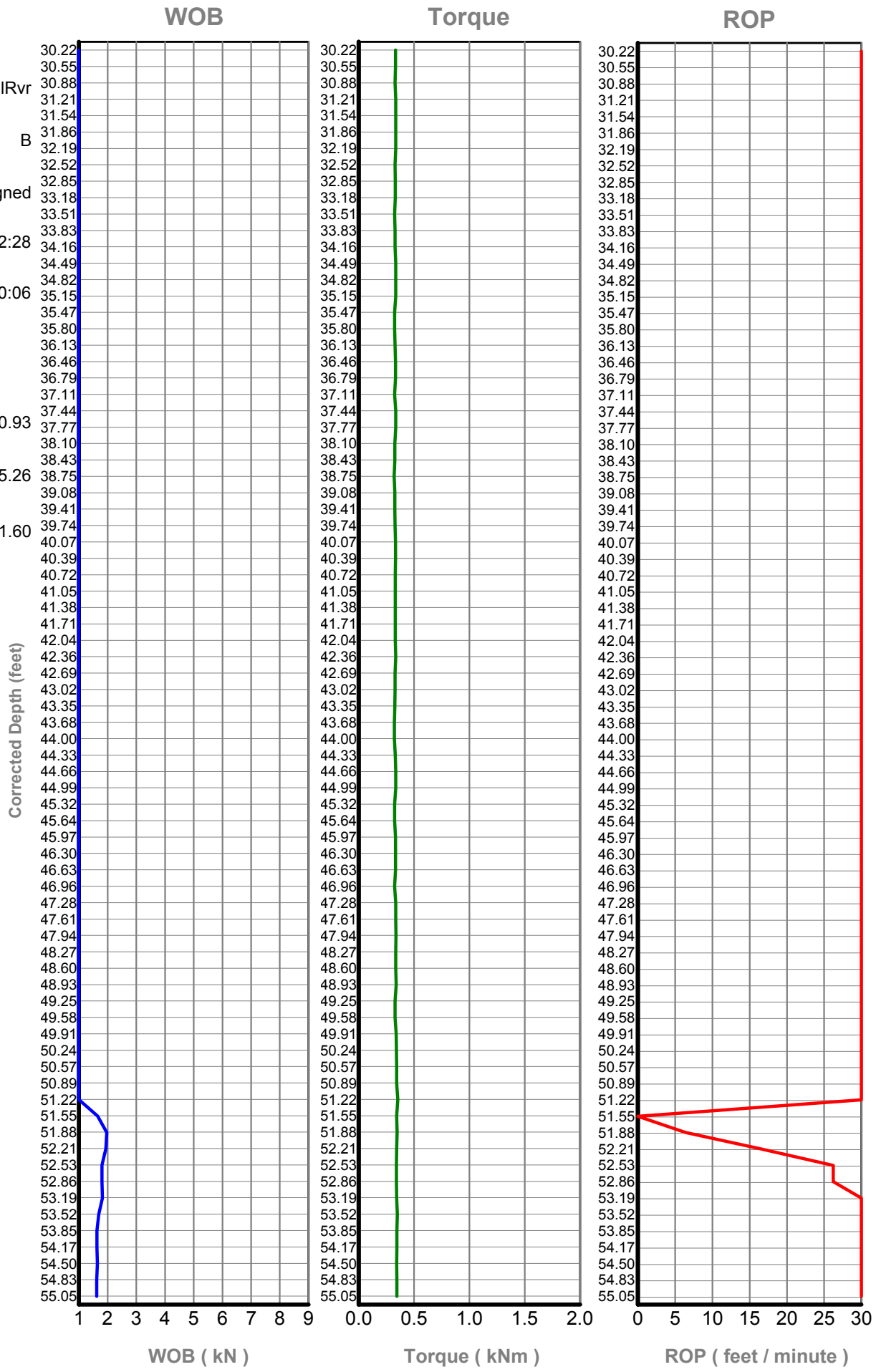
**End Date:**
4/18/2015 9:30:06

**Operator Note:**
'1.6 Auto Complete'

**Northing:**
369,840.93

**Easting:**
255,785.26

**Tide (feet):**
1.60



## Hole: D71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:19:13 | 31.50 | 30.30 | 1,011 | 0.28 | 0.33 | 55.3 |
| 4/18/2015 9:19:13 | 31.82 | 30.62 | 1,038 | 0.27 | 0.33 | 56.7 |
| 4/18/2015 9:19:14 | 32.15 | 30.95 | 1,029 | 0.27 | 0.33 | 56.3 |
| 4/18/2015 9:19:14 | 32.48 | 31.28 | 1,029 | 0.27 | 0.33 | 56.3 |
| 4/18/2015 9:19:14 | 32.81 | 31.61 | 1,029 | 0.27 | 0.33 | 56.3 |
| 4/18/2015 9:19:15 | 33.14 | 31.94 | 1,031 | 0.26 | 0.33 | 56.4 |
| 4/18/2015 9:19:15 | 33.46 | 32.26 | 1,031 | 0.26 | 0.33 | 56.4 |
| 4/18/2015 9:19:15 | 33.79 | 32.59 | 1,031 | 0.26 | 0.32 | 56.4 |
| 4/18/2015 9:19:16 | 34.12 | 32.92 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:16 | 34.45 | 33.25 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:16 | 34.78 | 33.58 | 1,049 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:17 | 35.11 | 33.91 | 1,049 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:17 | 35.43 | 34.23 | 1,049 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:17 | 35.76 | 34.56 | 1,059 | 0.33 | 0.33 | 57.9 |
| 4/18/2015 9:19:18 | 36.09 | 34.89 | 1,059 | 0.33 | 0.33 | 57.9 |
| 4/18/2015 9:19:18 | 36.42 | 35.22 | 1,050 | 0.26 | 0.34 | 57.4 |
| 4/18/2015 9:19:18 | 36.75 | 35.55 | 1,047 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:19 | 37.07 | 35.87 | 1,047 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:19 | 37.40 | 36.20 | 1,047 | 0.26 | 0.34 | 57.3 |
| 4/18/2015 9:19:19 | 37.73 | 36.53 | 1,051 | 0.26 | 0.32 | 57.5 |
| 4/18/2015 9:19:20 | 38.06 | 36.86 | 1,051 | 0.26 | 0.32 | 57.5 |
| 4/18/2015 9:19:20 | 38.39 | 37.19 | 1,066 | 0.26 | 0.31 | 58.3 |
| 4/18/2015 9:19:20 | 38.71 | 37.51 | 1,060 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:19:21 | 39.04 | 37.84 | 1,060 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:19:21 | 39.37 | 38.17 | 1,073 | 0.26 | 0.33 | 58.7 |
| 4/18/2015 9:19:21 | 39.70 | 38.50 | 1,042 | 0.26 | 0.33 | 57.0 |
| 4/18/2015 9:19:22 | 40.03 | 38.83 | 1,042 | 0.26 | 0.33 | 57.0 |
| 4/18/2015 9:19:22 | 40.35 | 39.15 | 1,042 | 0.27 | 0.33 | 57.0 |
| 4/18/2015 9:19:22 | 40.68 | 39.48 | 1,053 | 0.26 | 0.33 | 57.6 |
| 4/18/2015 9:19:23 | 41.01 | 39.81 | 1,053 | 0.26 | 0.33 | 57.6 |
| 4/18/2015 9:19:23 | 41.34 | 40.14 | 1,047 | 0.26 | 0.33 | 57.2 |
| 4/18/2015 9:19:24 | 41.67 | 40.47 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:24 | 41.99 | 40.79 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:24 | 42.32 | 41.12 | 1,029 | 0.26 | 0.34 | 56.3 |
| 4/18/2015 9:19:25 | 42.65 | 41.45 | 1,029 | 0.26 | 0.34 | 56.3 |
| 4/18/2015 9:19:25 | 42.98 | 41.78 | 1,072 | 0.27 | 0.33 | 58.6 |
| 4/18/2015 9:19:25 | 43.31 | 42.11 | 1,040 | 0.26 | 0.32 | 56.9 |
| 4/18/2015 9:19:26 | 43.64 | 42.44 | 1,040 | 0.26 | 0.32 | 56.9 |
| 4/18/2015 9:19:26 | 43.96 | 42.76 | 1,056 | 0.27 | 0.32 | 57.8 |
| 4/18/2015 9:19:26 | 44.29 | 43.09 | 1,047 | 0.27 | 0.33 | 57.3 |
| 4/18/2015 9:19:27 | 44.62 | 43.42 | 1,047 | 0.27 | 0.33 | 57.3 |
| 4/18/2015 9:19:27 | 44.95 | 43.75 | 1,069 | 0.26 | 0.34 | 58.4 |
| 4/18/2015 9:19:27 | 45.28 | 44.08 | 1,054 | 0.27 | 0.33 | 57.6 |
| 4/18/2015 9:19:28 | 45.60 | 44.40 | 1,054 | 0.27 | 0.33 | 57.6 |
| 4/18/2015 9:19:28 | 45.93 | 44.73 | 1,045 | 0.26 | 0.33 | 57.2 |
| 4/18/2015 9:19:28 | 46.26 | 45.06 | 1,036 | 0.26 | 0.33 | 56.7 |
| 4/18/2015 9:19:29 | 46.59 | 45.39 | 1,036 | 0.26 | 0.33 | 56.7 |
| 4/18/2015 9:19:29 | 46.92 | 45.72 | 1,058 | 0.26 | 0.32 | 57.9 |
| 4/18/2015 9:19:29 | 47.24 | 46.04 | 1,045 | 0.27 | 0.33 | 57.2 |
| 4/18/2015 9:19:30 | 47.57 | 46.37 | 1,045 | 0.27 | 0.33 | 57.2 |
| 4/18/2015 9:19:30 | 47.90 | 46.70 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:30 | 48.23 | 47.03 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:31 | 48.56 | 47.36 | 1,048 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:19:31 | 48.88 | 47.68 | 1,048 | 0.26 | 0.34 | 57.3 |
| 4/18/2015 9:19:31 | 49.21 | 48.01 | 1,033 | 0.27 | 0.34 | 56.5 |
| 4/18/2015 9:19:32 | 49.54 | 48.34 | 1,033 | 0.27 | 0.34 | 56.5 |
| 4/18/2015 9:19:32 | 49.87 | 48.67 | 1,033 | 0.27 | 0.34 | 56.5 |
| 4/18/2015 9:19:33 | 50.20 | 49.00 | 1,014 | 0.27 | 0.34 | 55.4 |
| 4/18/2015 9:19:33 | 50.53 | 49.33 | 1,014 | 0.27 | 0.34 | 55.4 |
| 4/18/2015 9:19:33 | 50.85 | 49.65 | 970 | 0.26 | 0.34 | 53.1 |
| 4/18/2015 9:19:34 | 51.18 | 49.98 | 970 | 0.26 | 0.34 | 53.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:19:34 | 51.51 | 50.31 | 959 | 0.26 | 0.35 | 52.4 |
| 4/18/2015 | 9:19:35 | 51.84 | 50.64 | 924 | 0.26 | 0.35 | 50.5 |
| 4/18/2015 | 9:19:35 | 52.17 | 50.97 | 924 | 0.26 | 0.35 | 50.5 |
| 4/18/2015 | 9:19:35 | 52.49 | 51.29 | 909 | 0.26 | 0.35 | 49.7 |
| 4/18/2015 | 9:19:36 | 52.82 | 51.62 | 866 | 0.26 | 0.36 | 47.4 |
| 4/18/2015 | 9:19:52 | 53.15 | 51.95 | 0 | 1.64 | 0.34 | 0.0 |
| 4/18/2015 | 9:19:53 | 53.48 | 52.28 | 0 | 1.64 | 0.34 | 0.0 |
| 4/18/2015 | 9:19:52 | 53.81 | 52.61 | 104 | 1.83 | 0.34 | 5.7 |
| 4/18/2015 | 9:19:53 | 54.13 | 52.93 | 104 | 1.79 | 0.34 | 5.7 |
| 4/18/2015 | 9:19:53 | 54.46 | 53.26 | 295 | 1.79 | 0.34 | 16.2 |
| 4/18/2015 | 9:19:54 | 54.79 | 53.59 | 295 | 1.79 | 0.34 | 16.2 |
| 4/18/2015 | 9:19:54 | 55.12 | 53.92 | 487 | 1.78 | 0.34 | 26.6 |
| 4/18/2015 | 9:19:55 | 55.45 | 54.25 | 664 | 1.77 | 0.34 | 36.3 |
| 4/18/2015 | 9:19:55 | 55.77 | 54.57 | 820 | 1.79 | 0.34 | 44.8 |
| 4/18/2015 | 9:19:56 | 56.10 | 54.90 | 820 | 1.79 | 0.34 | 44.8 |
| 4/18/2015 | 9:19:56 | 56.43 | 55.23 | 820 | 2.71 | 0.35 | 44.8 |
| 4/18/2015 | 9:19:56 | 56.61 | 55.41 | 900 | 8.07 | 0.41 | 49.2 |

## D71 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:17:13

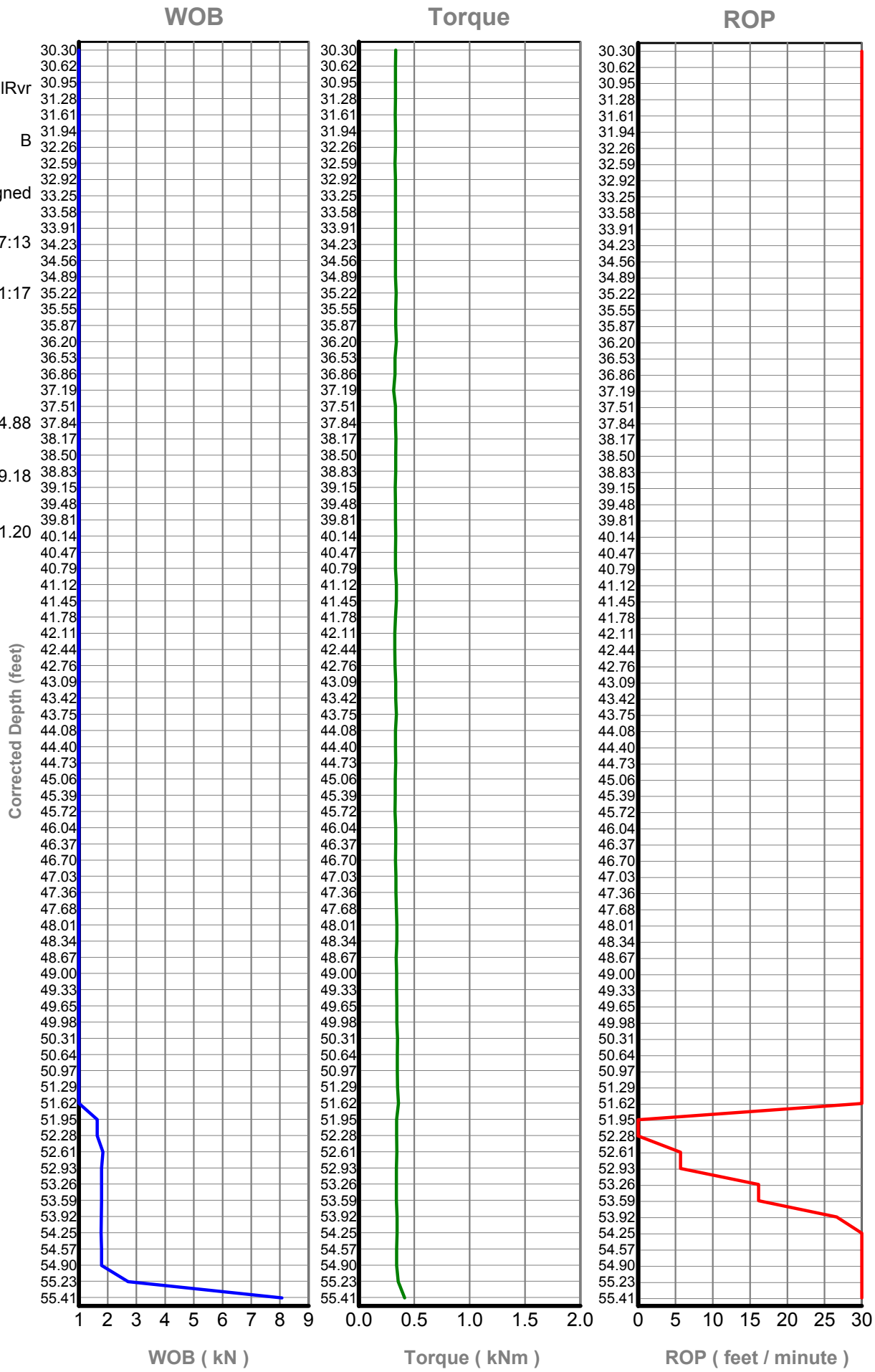
**End Date:**
4/18/2015 9:21:17

**Operator Note:**
'1.2 1.1 b No rock'

**Northing:**
369,864.88

**Easting:**
255,839.18

**Tide (feet):**
1.20



## Hole: D72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 20:25:16 | 30.18 | 30.28 | 1,017 | 0.24 | 0.37 | 55.6 |
| 4/18/2015 20:25:16 | 30.51 | 30.61 | 1,014 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 20:25:16 | 30.84 | 30.94 | 1,014 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 20:25:16 | 31.17 | 31.27 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 20:25:17 | 31.50 | 31.60 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 20:25:17 | 31.82 | 31.92 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 20:25:18 | 32.15 | 32.25 | 1,020 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 20:25:18 | 32.48 | 32.58 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 20:25:18 | 32.81 | 32.91 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 20:25:19 | 33.14 | 33.24 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 20:25:19 | 33.46 | 33.56 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:19 | 33.79 | 33.89 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 20:25:20 | 34.12 | 34.22 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 20:25:20 | 34.45 | 34.55 | 1,013 | 0.24 | 0.37 | 55.4 |
| 4/18/2015 20:25:20 | 34.78 | 34.88 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 20:25:21 | 35.11 | 35.21 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 20:25:21 | 35.43 | 35.53 | 1,007 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 20:25:21 | 35.76 | 35.86 | 1,013 | 0.24 | 0.37 | 55.4 |
| 4/18/2015 20:25:22 | 36.09 | 36.19 | 1,013 | 0.24 | 0.37 | 55.4 |
| 4/18/2015 20:25:22 | 36.42 | 36.52 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:25:22 | 36.75 | 36.85 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:23 | 37.07 | 37.17 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:24 | 37.40 | 37.50 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:24 | 37.73 | 37.83 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:24 | 38.06 | 38.16 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 20:25:25 | 38.39 | 38.49 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 20:25:25 | 38.71 | 38.81 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 20:25:25 | 39.04 | 39.14 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 20:25:26 | 39.37 | 39.47 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 20:25:26 | 39.70 | 39.80 | 991 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 20:25:26 | 40.03 | 40.13 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:25:27 | 40.35 | 40.45 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:25:27 | 40.68 | 40.78 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 20:25:27 | 41.01 | 41.11 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:25:28 | 41.34 | 41.44 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:25:28 | 41.67 | 41.77 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 20:25:28 | 41.99 | 42.09 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:25:29 | 42.32 | 42.42 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 20:25:29 | 42.65 | 42.75 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 20:25:29 | 42.98 | 43.08 | 995 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 20:25:30 | 43.31 | 43.41 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 20:25:30 | 43.64 | 43.74 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 20:25:30 | 43.96 | 44.06 | 996 | 0.24 | 0.37 | 54.4 |
| 4/18/2015 20:25:31 | 44.29 | 44.39 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 20:25:31 | 44.62 | 44.72 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 20:25:31 | 44.95 | 45.05 | 1,001 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:25:32 | 45.28 | 45.38 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 20:25:32 | 45.60 | 45.70 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 20:25:32 | 45.93 | 46.03 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 20:25:33 | 46.26 | 46.36 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 20:25:33 | 46.59 | 46.69 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 20:25:34 | 46.92 | 47.02 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 20:25:34 | 47.24 | 47.34 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 20:25:35 | 47.57 | 47.67 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 20:25:35 | 47.90 | 48.00 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 20:25:35 | 48.23 | 48.33 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 20:25:36 | 48.56 | 48.66 | 968 | 0.24 | 0.37 | 52.9 |
| 4/18/2015 20:25:39 | 48.88 | 48.98 | 84 | 0.24 | 0.37 | 4.6 |
| 4/18/2015 20:25:42 | 49.21 | 49.31 | 128 | 0.24 | 0.37 | 7.0 |
| 4/18/2015 20:25:45 | 49.54 | 49.64 | 121 | 0.24 | 0.37 | 6.6 |
| 4/18/2015 20:25:48 | 49.87 | 49.97 | 146 | 0.24 | 0.37 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 20:25:50 | 50.20 | 50.30 | 171 | 0.24 | 0.37 | 9.4 |
| 4/18/2015 | 20:25:52 | 50.53 | 50.63 | 154 | 0.24 | 0.37 | 8.4 |
| 4/18/2015 | 20:25:55 | 50.85 | 50.95 | 134 | 0.24 | 0.37 | 7.3 |
| 4/18/2015 | 20:26:02 | 51.18 | 51.28 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 | 20:27:11 | 51.51 | 51.61 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 | 20:27:12 | 51.84 | 51.94 | 114 | 0.24 | 0.37 | 6.2 |
| 4/18/2015 | 20:27:12 | 52.17 | 52.27 | 223 | 0.24 | 0.37 | 12.2 |
| 4/18/2015 | 20:27:13 | 52.49 | 52.59 | 378 | 0.24 | 0.37 | 20.7 |
| 4/18/2015 | 20:27:13 | 52.82 | 52.92 | 494 | 0.24 | 0.37 | 27.0 |
| 4/18/2015 | 20:27:14 | 53.15 | 53.25 | 601 | 0.24 | 0.37 | 32.9 |
| 4/18/2015 | 20:27:14 | 53.48 | 53.58 | 717 | 0.24 | 0.37 | 39.2 |
| 4/18/2015 | 20:27:15 | 53.81 | 53.91 | 717 | 0.24 | 0.37 | 39.2 |
| 4/18/2015 | 20:27:15 | 54.13 | 54.23 | 765 | 0.24 | 0.37 | 41.8 |
| 4/18/2015 | 20:27:15 | 54.46 | 54.56 | 765 | 0.24 | 0.37 | 41.8 |
| 4/18/2015 | 20:27:16 | 54.79 | 54.89 | 772 | 0.24 | 0.37 | 42.2 |
| 4/18/2015 | 20:27:16 | 55.11 | 55.21 | 773 | 0.24 | 0.37 | 42.3 |

## D72 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 20:21:51

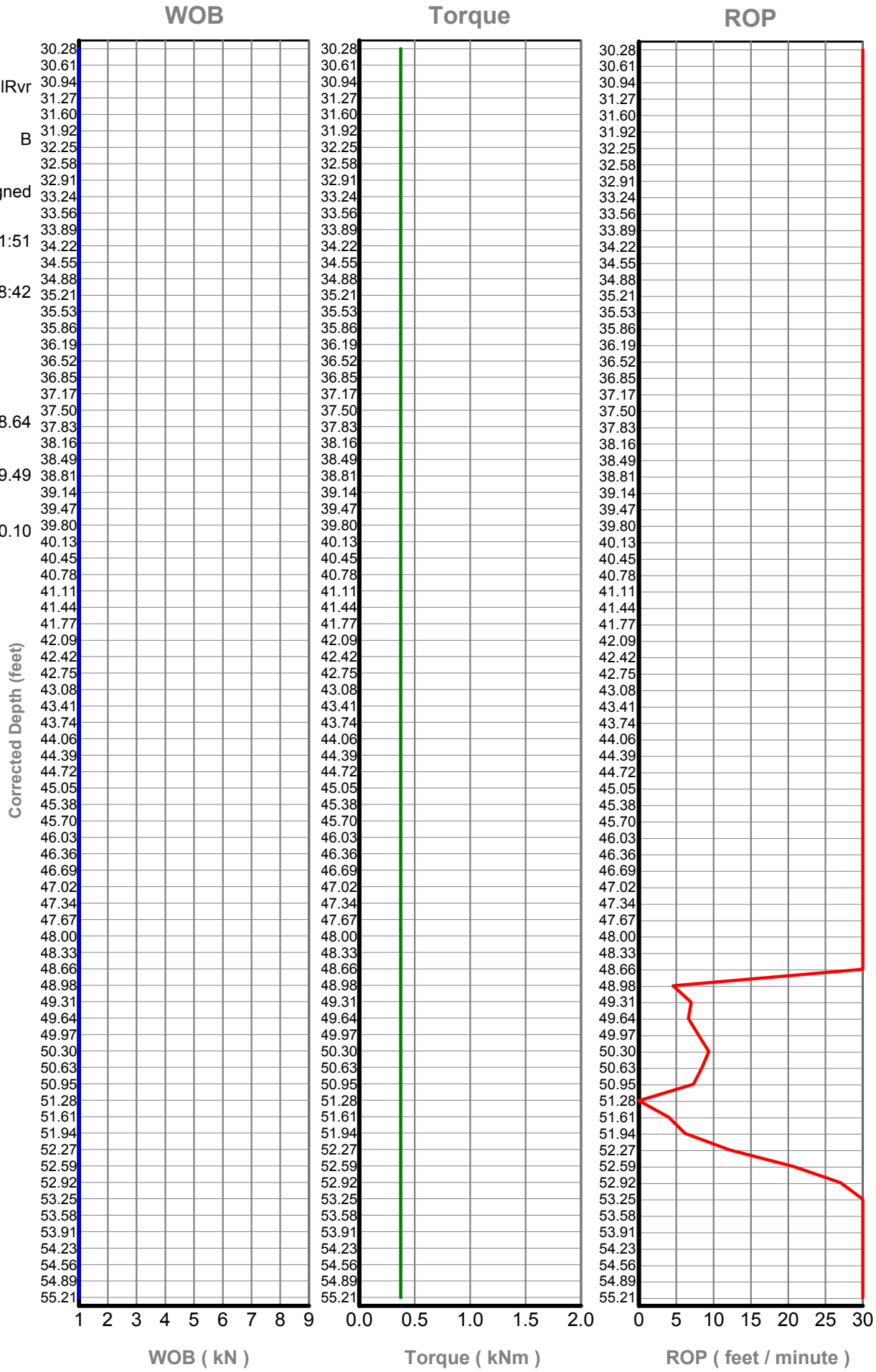
**End Date:**
4/18/2015 20:28:42

**Operator Note:**
'-0.1 -.1 b Auto Complete'

**Northing:**
369,568.64

**Easting:**
255,389.49

**Tide (feet):**
-0.10



## Hole: D73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 20:36:10 | 30.18 | 30.18 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 20:36:10 | 30.51 | 30.51 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 20:36:10 | 30.84 | 30.84 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 20:36:11 | 31.17 | 31.17 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 20:36:11 | 31.50 | 31.50 | 1,107 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:11 | 31.82 | 31.82 | 1,107 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:11 | 32.15 | 32.15 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 20:36:12 | 32.48 | 32.48 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:12 | 32.81 | 32.81 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:12 | 33.14 | 33.14 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 20:36:13 | 33.46 | 33.46 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 20:36:13 | 33.79 | 33.79 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 20:36:13 | 34.12 | 34.12 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:14 | 34.45 | 34.45 | 1,108 | 0.24 | 0.37 | 60.6 |
| 4/18/2015 20:36:14 | 34.78 | 34.78 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 20:36:14 | 35.11 | 35.11 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 20:36:33 | 35.43 | 35.43 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 20:36:34 | 35.76 | 35.76 | 17 | 0.24 | 0.37 | 0.9 |
| 4/18/2015 20:36:34 | 36.09 | 36.09 | 217 | 0.24 | 0.37 | 11.9 |
| 4/18/2015 20:36:35 | 36.42 | 36.42 | 217 | 0.24 | 0.37 | 11.9 |
| 4/18/2015 20:36:35 | 36.75 | 36.75 | 423 | 0.24 | 0.37 | 23.1 |
| 4/18/2015 20:36:35 | 37.07 | 37.07 | 632 | 0.24 | 0.37 | 34.6 |
| 4/18/2015 20:36:36 | 37.40 | 37.40 | 632 | 0.24 | 0.37 | 34.6 |
| 4/18/2015 20:36:36 | 37.73 | 37.73 | 835 | 0.24 | 0.37 | 45.6 |
| 4/18/2015 20:36:36 | 38.06 | 38.06 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 20:36:37 | 38.39 | 38.39 | 1,032 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 20:36:37 | 38.71 | 38.71 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 20:36:37 | 39.04 | 39.04 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 20:36:38 | 39.37 | 39.37 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 20:36:38 | 39.70 | 39.70 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 20:36:38 | 40.03 | 40.03 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 20:36:39 | 40.35 | 40.35 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 20:36:39 | 40.68 | 40.68 | 1,038 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 20:36:39 | 41.01 | 41.01 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/18/2015 20:36:40 | 41.34 | 41.34 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/18/2015 20:36:40 | 41.67 | 41.67 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 20:36:40 | 41.99 | 41.99 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 20:36:41 | 42.32 | 42.32 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 20:36:41 | 42.65 | 42.65 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 20:36:42 | 42.98 | 42.98 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 20:36:42 | 43.31 | 43.31 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 20:36:42 | 43.64 | 43.64 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:36:43 | 43.96 | 43.96 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:36:43 | 44.29 | 44.29 | 1,012 | 0.24 | 0.37 | 55.3 |
| 4/18/2015 20:36:43 | 44.62 | 44.62 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 20:36:44 | 44.95 | 44.95 | 1,025 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 20:36:44 | 45.28 | 45.28 | 1,025 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 20:36:44 | 45.60 | 45.60 | 1,033 | 0.24 | 0.37 | 56.5 |
| 4/18/2015 20:36:45 | 45.93 | 45.93 | 1,036 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 20:36:45 | 46.26 | 46.26 | 1,036 | 0.24 | 0.37 | 56.7 |
| 4/18/2015 20:36:45 | 46.59 | 46.59 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 20:36:46 | 46.92 | 46.92 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 20:36:46 | 47.24 | 47.24 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 20:36:46 | 47.57 | 47.57 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 20:36:47 | 47.90 | 47.90 | 1,009 | 0.24 | 0.37 | 55.2 |
| 4/18/2015 20:36:47 | 48.23 | 48.23 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:36:48 | 48.56 | 48.56 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 20:36:48 | 48.88 | 48.88 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 20:36:48 | 49.21 | 49.21 | 968 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 20:36:49 | 49.54 | 49.54 | 968 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 20:36:49 | 49.87 | 49.87 | 963 | 0.24 | 0.37 | 52.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 20:36:49 | 50.20 | 50.20 | 963 | 0.24 | 0.37 | 52.6 |
| 4/18/2015 | 20:36:50 | 50.53 | 50.53 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 | 20:36:50 | 50.85 | 50.85 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 | 20:36:50 | 51.18 | 51.18 | 948 | 0.24 | 0.37 | 51.8 |
| 4/18/2015 | 20:36:51 | 51.51 | 51.51 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 | 20:36:51 | 51.84 | 51.84 | 934 | 0.24 | 0.37 | 51.1 |
| 4/18/2015 | 20:36:52 | 52.17 | 52.17 | 934 | 0.24 | 0.37 | 51.1 |
| 4/18/2015 | 20:36:52 | 52.49 | 52.49 | 914 | 0.24 | 0.37 | 50.0 |
| 4/18/2015 | 20:36:53 | 52.82 | 52.82 | 914 | 0.24 | 0.37 | 50.0 |
| 4/18/2015 | 20:36:53 | 53.15 | 53.15 | 905 | 0.24 | 0.37 | 49.5 |
| 4/18/2015 | 20:36:54 | 53.48 | 53.48 | 890 | 0.24 | 0.37 | 48.7 |
| 4/18/2015 | 20:36:54 | 53.81 | 53.81 | 890 | 0.24 | 0.37 | 48.7 |
| 4/18/2015 | 20:36:54 | 54.13 | 54.13 | 882 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 | 20:36:55 | 54.46 | 54.46 | 870 | 0.24 | 0.37 | 47.5 |
| 4/18/2015 | 20:36:55 | 54.79 | 54.79 | 841 | 0.24 | 0.37 | 46.0 |
| 4/18/2015 | 20:36:56 | 55.12 | 55.12 | 810 | 0.24 | 0.37 | 44.3 |
| 4/18/2015 | 20:36:56 | 55.45 | 55.45 | 797 | 0.24 | 0.37 | 43.6 |
| 4/18/2015 | 20:36:57 | 55.77 | 55.77 | 772 | 0.24 | 0.37 | 42.2 |
| 4/18/2015 | 20:36:57 | 56.10 | 56.10 | 762 | 0.24 | 0.37 | 41.7 |
| 4/18/2015 | 20:36:58 | 56.43 | 56.43 | 743 | 0.24 | 0.37 | 40.6 |
| 4/18/2015 | 20:36:58 | 56.76 | 56.76 | 721 | 0.24 | 0.37 | 39.4 |
| 4/18/2015 | 20:36:59 | 57.09 | 57.09 | 688 | 0.24 | 0.37 | 37.6 |
| 4/18/2015 | 20:36:59 | 57.41 | 57.41 | 654 | 0.24 | 0.37 | 35.8 |
| 4/18/2015 | 20:37:00 | 57.74 | 57.74 | 616 | 0.24 | 0.37 | 33.7 |
| 4/18/2015 | 20:37:01 | 58.07 | 58.07 | 538 | 0.24 | 0.37 | 29.4 |
| 4/18/2015 | 20:37:02 | 58.40 | 58.40 | 459 | 0.24 | 0.37 | 25.1 |
| 4/18/2015 | 20:37:03 | 58.73 | 58.73 | 390 | 0.24 | 0.37 | 21.3 |
| 4/18/2015 | 20:37:03 | 59.06 | 59.06 | 375 | 0.24 | 0.37 | 20.5 |
| 4/18/2015 | 20:37:05 | 59.38 | 59.38 | 359 | 0.24 | 0.37 | 19.6 |
| 4/18/2015 | 20:37:06 | 59.71 | 59.71 | 373 | 0.24 | 0.37 | 20.4 |
| 4/18/2015 | 20:37:07 | 60.04 | 60.04 | 382 | 0.24 | 0.37 | 20.9 |
| 4/18/2015 | 20:37:08 | 60.37 | 60.37 | 373 | 0.24 | 0.37 | 20.4 |
| 4/18/2015 | 20:37:09 | 60.70 | 60.70 | 330 | 0.24 | 0.37 | 18.0 |
| 4/18/2015 | 20:37:11 | 61.02 | 61.02 | 223 | 0.24 | 0.37 | 12.2 |
| 4/18/2015 | 20:37:16 | 61.35 | 61.35 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 | 20:37:19 | 61.68 | 61.68 | 129 | 0.24 | 0.37 | 7.1 |
| 4/18/2015 | 20:37:23 | 61.86 | 61.86 | 15 | 0.24 | 0.37 | 0.8 |

## D73 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 20:33:32

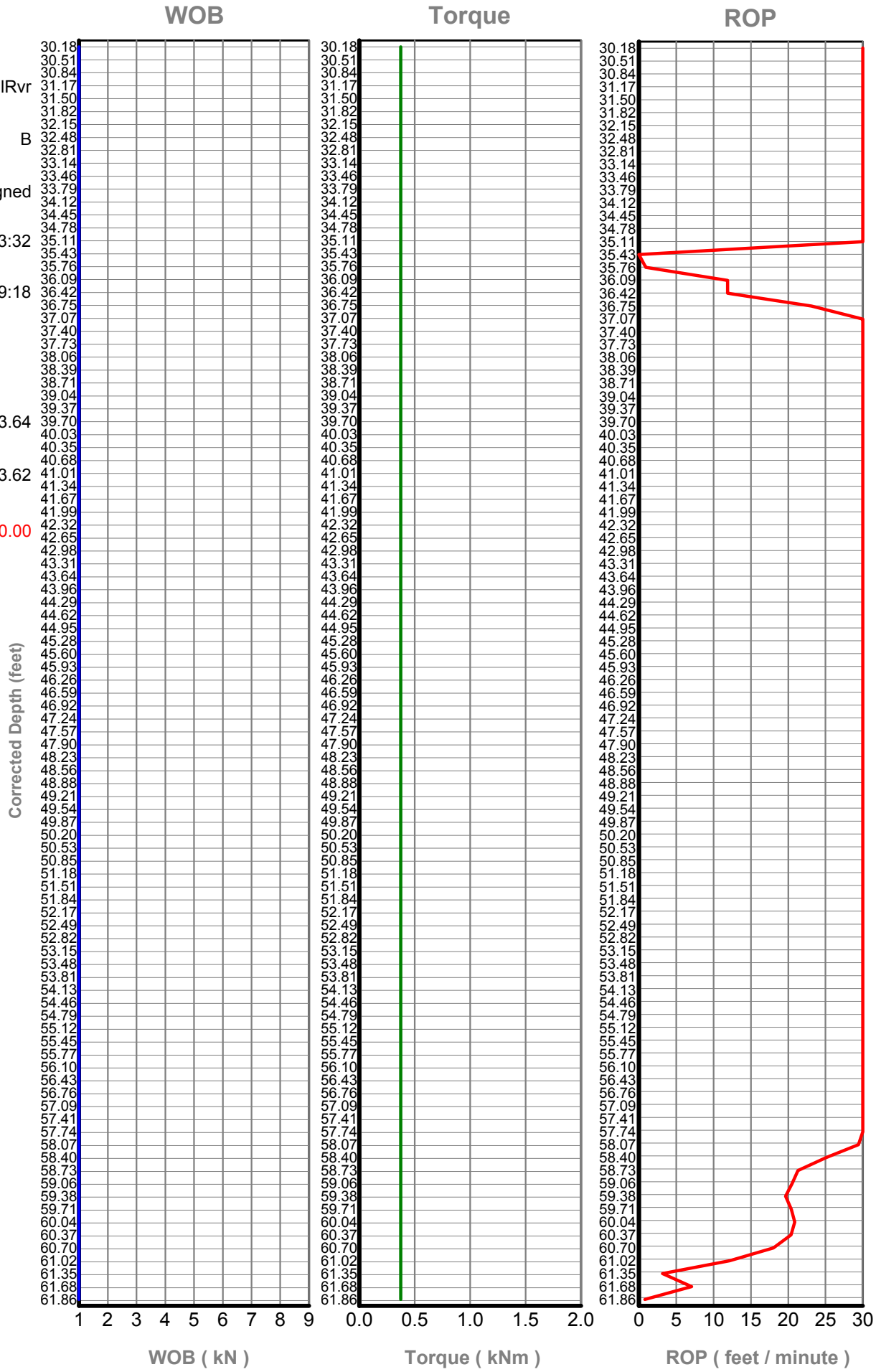
**End Date:**
4/18/2015 20:39:18

**Operator Note:**
'0 -.1 b Auto Complete'

**Northing:**
369,603.64

**Easting:**
255,453.62

**Tide (feet):**
0.00



## Hole: D74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 20:23:39 | 30.18 | 30.28 | 654 | 1.62 | 0.14 | 35.8 |
| 4/18/2015 20:23:40 | 30.51 | 30.61 | 650 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:40 | 30.84 | 30.94 | 650 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:41 | 31.17 | 31.27 | 647 | 1.62 | 0.15 | 35.4 |
| 4/18/2015 20:23:41 | 31.50 | 31.60 | 647 | 1.62 | 0.14 | 35.4 |
| 4/18/2015 20:23:42 | 31.82 | 31.92 | 640 | 1.62 | 0.14 | 35.0 |
| 4/18/2015 20:23:42 | 32.15 | 32.25 | 636 | 1.62 | 0.14 | 34.8 |
| 4/18/2015 20:23:43 | 32.48 | 32.58 | 640 | 1.63 | 0.14 | 35.0 |
| 4/18/2015 20:23:43 | 32.81 | 32.91 | 640 | 1.63 | 0.14 | 35.0 |
| 4/18/2015 20:23:44 | 33.14 | 33.24 | 641 | 1.62 | 0.14 | 35.0 |
| 4/18/2015 20:23:44 | 33.46 | 33.56 | 644 | 1.62 | 0.14 | 35.2 |
| 4/18/2015 20:23:45 | 33.79 | 33.89 | 651 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:45 | 34.12 | 34.22 | 655 | 1.62 | 0.14 | 35.8 |
| 4/18/2015 20:23:46 | 34.45 | 34.55 | 651 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:46 | 34.78 | 34.88 | 650 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:47 | 35.11 | 35.21 | 647 | 1.63 | 0.14 | 35.4 |
| 4/18/2015 20:23:48 | 35.43 | 35.53 | 648 | 1.62 | 0.14 | 35.4 |
| 4/18/2015 20:23:49 | 35.76 | 35.86 | 634 | 1.62 | 0.14 | 34.7 |
| 4/18/2015 20:23:49 | 36.09 | 36.19 | 634 | 1.62 | 0.14 | 34.7 |
| 4/18/2015 20:23:50 | 36.42 | 36.52 | 639 | 1.62 | 0.14 | 34.9 |
| 4/18/2015 20:23:50 | 36.75 | 36.85 | 639 | 1.62 | 0.13 | 34.9 |
| 4/18/2015 20:23:51 | 37.07 | 37.17 | 647 | 1.62 | 0.14 | 35.4 |
| 4/18/2015 20:23:51 | 37.40 | 37.50 | 641 | 1.63 | 0.14 | 35.1 |
| 4/18/2015 20:23:52 | 37.73 | 37.83 | 656 | 1.63 | 0.14 | 35.9 |
| 4/18/2015 20:23:52 | 38.06 | 38.16 | 647 | 1.63 | 0.14 | 35.4 |
| 4/18/2015 20:23:53 | 38.39 | 38.49 | 650 | 1.62 | 0.14 | 35.6 |
| 4/18/2015 20:23:53 | 38.71 | 38.81 | 647 | 1.62 | 0.14 | 35.4 |
| 4/18/2015 20:23:54 | 39.04 | 39.14 | 635 | 1.63 | 0.14 | 34.7 |
| 4/18/2015 20:23:54 | 39.37 | 39.47 | 635 | 1.62 | 0.14 | 34.7 |
| 4/18/2015 20:23:55 | 39.70 | 39.80 | 643 | 1.63 | 0.14 | 35.2 |
| 4/18/2015 20:23:55 | 40.03 | 40.13 | 640 | 1.63 | 0.14 | 35.0 |
| 4/18/2015 20:23:56 | 40.35 | 40.45 | 641 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:23:56 | 40.68 | 40.78 | 637 | 1.63 | 0.14 | 34.8 |
| 4/18/2015 20:23:57 | 41.01 | 41.11 | 645 | 1.62 | 0.14 | 35.3 |
| 4/18/2015 20:23:58 | 41.34 | 41.44 | 648 | 1.63 | 0.14 | 35.4 |
| 4/18/2015 20:23:58 | 41.67 | 41.77 | 645 | 1.63 | 0.16 | 35.3 |
| 4/18/2015 20:23:59 | 41.99 | 42.09 | 647 | 1.63 | 0.14 | 35.4 |
| 4/18/2015 20:24:00 | 42.32 | 42.42 | 647 | 1.63 | 0.14 | 35.4 |
| 4/18/2015 20:24:00 | 42.65 | 42.75 | 645 | 1.62 | 0.14 | 35.3 |
| 4/18/2015 20:24:01 | 42.98 | 43.08 | 642 | 1.63 | 0.14 | 35.1 |
| 4/18/2015 20:24:01 | 43.31 | 43.41 | 645 | 1.62 | 0.14 | 35.3 |
| 4/18/2015 20:24:02 | 43.64 | 43.74 | 642 | 1.63 | 0.14 | 35.1 |
| 4/18/2015 20:24:02 | 43.96 | 44.06 | 642 | 1.63 | 0.14 | 35.1 |
| 4/18/2015 20:24:03 | 44.29 | 44.39 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:03 | 44.62 | 44.72 | 645 | 1.64 | 0.14 | 35.3 |
| 4/18/2015 20:24:04 | 44.95 | 45.05 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:04 | 45.28 | 45.38 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:05 | 45.60 | 45.70 | 635 | 1.62 | 0.14 | 34.7 |
| 4/18/2015 20:24:06 | 45.93 | 46.03 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:06 | 46.26 | 46.36 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:07 | 46.59 | 46.69 | 642 | 1.62 | 0.14 | 35.1 |
| 4/18/2015 20:24:07 | 46.92 | 47.02 | 645 | 1.63 | 0.14 | 35.3 |
| 4/18/2015 20:24:08 | 47.24 | 47.34 | 642 | 1.67 | 0.14 | 35.1 |
| 4/18/2015 20:24:48 | 47.57 | 47.67 | 0 | 1.68 | 1.19 | 0.0 |
| 4/18/2015 20:25:01 | 47.90 | 48.00 | 0 | 1.69 | 1.14 | 0.0 |
| 4/18/2015 20:25:09 | 48.23 | 48.33 | 72 | 1.81 | 1.18 | 4.0 |
| 4/18/2015 20:25:11 | 48.56 | 48.66 | 136 | 1.69 | 1.00 | 7.5 |
| 4/18/2015 20:25:17 | 48.88 | 48.98 | 47 | 1.80 | 1.09 | 2.6 |
| 4/18/2015 20:25:24 | 49.21 | 49.31 | 49 | 1.86 | 1.23 | 2.7 |
| 4/18/2015 20:25:31 | 49.54 | 49.64 | 46 | 1.87 | 1.21 | 2.5 |
| 4/18/2015 20:25:38 | 49.87 | 49.97 | 46 | 1.86 | 1.26 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 20:25:40 | 49.95 | 50.05 | 49 | 1.87 | 1.29 | 2.7 | |

## D74 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 20:21:56

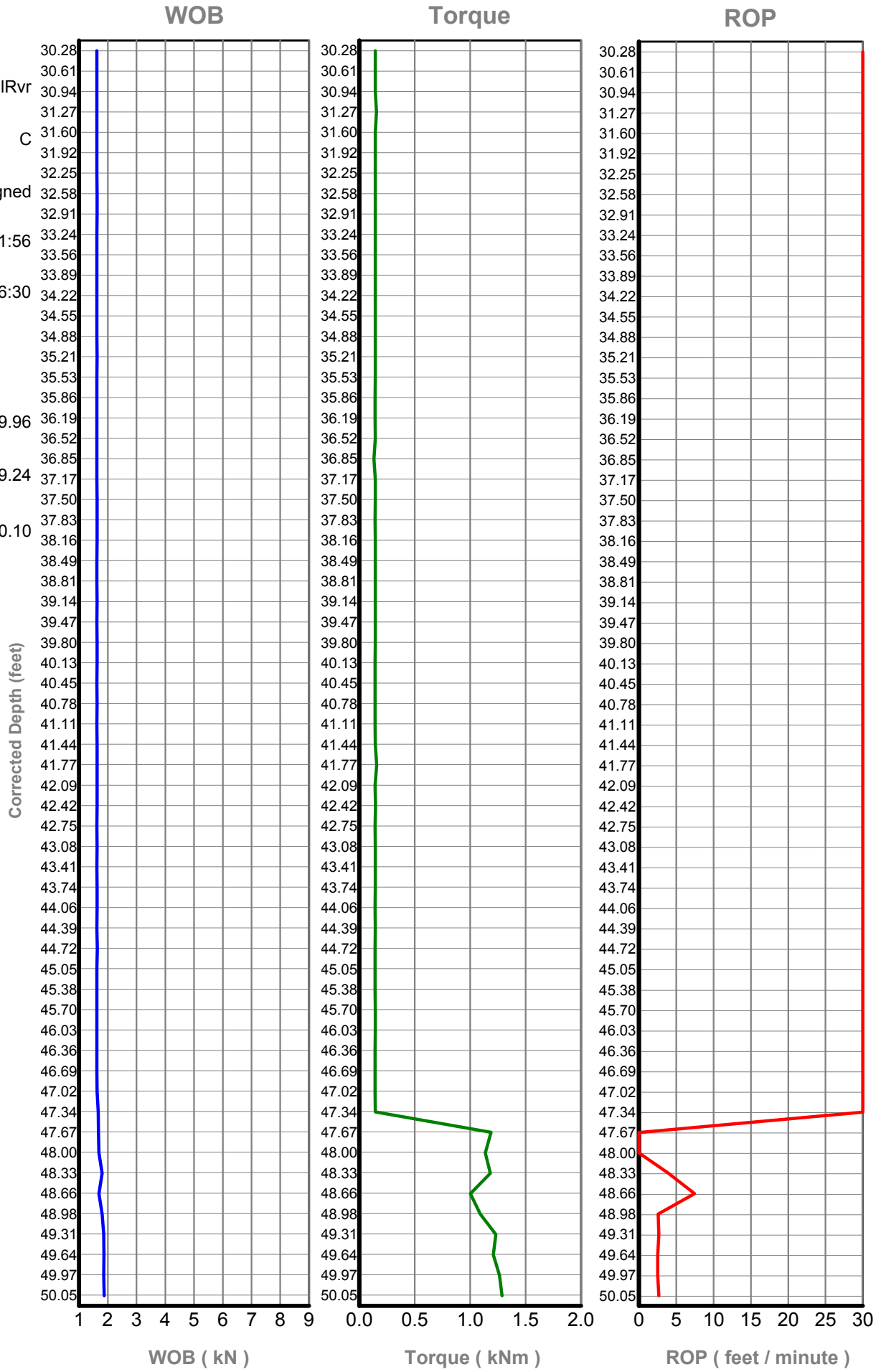
**End Date:**
4/18/2015 20:26:30

**Operator Note:**
'-0.1 -0.1 c Auto Complete'

**Northing:**
369,639.96

**Easting:**
255,519.24

**Tide (feet):**
-0.10



## Hole: D75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:12:36 | 32.48 | 30.08 | 1,156 | 0.24 | 0.37 | 63.2 |
| 4/18/2015 17:12:36 | 32.81 | 30.41 | 1,149 | 0.24 | 0.37 | 62.9 |
| 4/18/2015 17:12:36 | 33.14 | 30.74 | 1,164 | 0.24 | 0.37 | 63.6 |
| 4/18/2015 17:12:37 | 33.46 | 31.06 | 1,164 | 0.24 | 0.37 | 63.6 |
| 4/18/2015 17:12:37 | 33.79 | 31.39 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 17:12:38 | 34.12 | 31.72 | 1,158 | 0.24 | 0.37 | 63.3 |
| 4/18/2015 17:12:37 | 34.45 | 32.05 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 17:12:38 | 34.78 | 32.38 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 17:12:39 | 35.11 | 32.71 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 17:12:39 | 35.43 | 33.03 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:39 | 35.76 | 33.36 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:39 | 36.09 | 33.69 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:40 | 36.42 | 34.02 | 1,127 | 0.24 | 0.37 | 61.6 |
| 4/18/2015 17:12:40 | 36.75 | 34.35 | 1,127 | 0.24 | 0.37 | 61.6 |
| 4/18/2015 17:12:40 | 37.07 | 34.67 | 1,131 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:41 | 37.40 | 35.00 | 1,131 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:41 | 37.73 | 35.33 | 1,125 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 17:12:41 | 38.06 | 35.66 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:42 | 38.39 | 35.99 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:42 | 38.71 | 36.31 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:42 | 39.04 | 36.64 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:42 | 39.37 | 36.97 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:43 | 39.70 | 37.30 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 17:12:43 | 40.03 | 37.63 | 1,136 | 0.24 | 0.37 | 62.1 |
| 4/18/2015 17:12:43 | 40.35 | 37.95 | 1,146 | 0.24 | 0.37 | 62.7 |
| 4/18/2015 17:12:44 | 40.68 | 38.28 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:44 | 41.01 | 38.61 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:44 | 41.34 | 38.94 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:45 | 41.67 | 39.27 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:45 | 41.99 | 39.59 | 1,127 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:12:45 | 42.32 | 39.92 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:46 | 42.65 | 40.25 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:46 | 42.98 | 40.58 | 1,131 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:46 | 43.31 | 40.91 | 1,131 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:46 | 43.64 | 41.24 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:47 | 43.96 | 41.56 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 17:12:47 | 44.29 | 41.89 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 17:12:47 | 44.62 | 42.22 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 17:12:48 | 44.95 | 42.55 | 1,146 | 0.24 | 0.37 | 62.6 |
| 4/18/2015 17:12:48 | 45.28 | 42.88 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 17:12:48 | 45.60 | 43.20 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:49 | 45.93 | 43.53 | 1,139 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:49 | 46.26 | 43.86 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 17:12:50 | 46.59 | 44.19 | 1,143 | 0.24 | 0.37 | 62.5 |
| 4/18/2015 17:12:50 | 46.92 | 44.52 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:50 | 47.24 | 44.84 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:51 | 47.57 | 45.17 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:12:51 | 47.90 | 45.50 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:51 | 48.23 | 45.83 | 1,133 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:12:51 | 48.56 | 46.16 | 1,140 | 0.24 | 0.37 | 62.3 |
| 4/18/2015 17:12:52 | 48.88 | 46.48 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:52 | 49.21 | 46.81 | 1,130 | 0.24 | 0.37 | 61.8 |
| 4/18/2015 17:12:52 | 49.54 | 47.14 | 1,121 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 17:12:53 | 49.87 | 47.47 | 1,128 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:12:53 | 50.20 | 47.80 | 1,128 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:13:01 | 50.53 | 48.13 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 17:13:02 | 50.85 | 48.45 | 114 | 0.24 | 0.37 | 6.3 |
| 4/18/2015 17:13:02 | 51.18 | 48.78 | 332 | 0.24 | 0.37 | 18.1 |
| 4/18/2015 17:13:03 | 51.51 | 49.11 | 332 | 0.24 | 0.37 | 18.1 |
| 4/18/2015 17:13:03 | 51.84 | 49.44 | 535 | 0.24 | 0.37 | 29.2 |
| 4/18/2015 17:13:03 | 52.17 | 49.77 | 699 | 0.24 | 0.37 | 38.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:13:04 | 52.49 | 50.09 | 842 | 0.24 | 0.37 | 46.1 |
| 4/18/2015 | 17:13:04 | 52.82 | 50.42 | 925 | 0.24 | 0.37 | 50.6 |
| 4/18/2015 | 17:13:11 | 53.15 | 50.75 | 52 | 0.24 | 0.37 | 2.9 |
| 4/18/2015 | 17:13:17 | 53.48 | 51.08 | 60 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 | 17:13:23 | 53.81 | 51.41 | 80 | 0.24 | 0.37 | 4.3 |
| 4/18/2015 | 17:13:28 | 54.13 | 51.73 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 | 17:13:33 | 54.46 | 52.06 | 60 | 0.24 | 0.37 | 3.3 |
| 4/18/2015 | 17:13:37 | 54.79 | 52.39 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 | 17:13:43 | 55.12 | 52.72 | 52 | 0.24 | 0.37 | 2.8 |
| 4/18/2015 | 17:13:50 | 55.45 | 53.05 | 55 | 0.24 | 0.37 | 3.0 |
| 4/18/2015 | 17:13:57 | 55.77 | 53.37 | 46 | 0.24 | 0.37 | 2.5 |
| 4/18/2015 | 17:14:04 | 56.10 | 53.70 | 43 | 0.24 | 0.37 | 2.4 |
| 4/18/2015 | 17:14:05 | 56.15 | 53.75 | 43 | 0.24 | 0.37 | 2.4 |

## D75 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:11:31

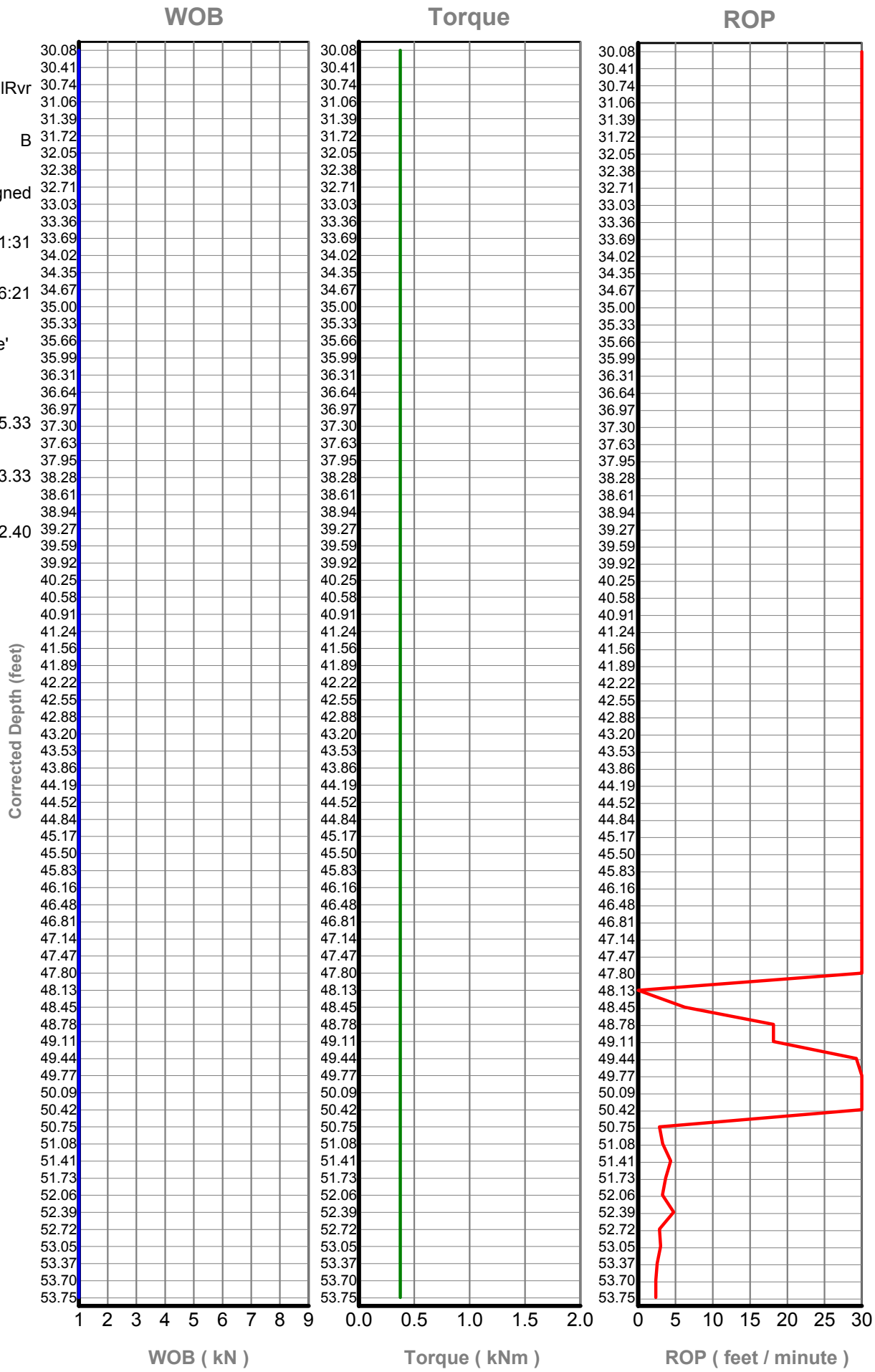
**End Date:**
4/18/2015 17:16:21

**Operator Note:**
'2.4 2.5 b Auto Complete'

**Northing:**
369,675.33

**Easting:**
255,603.33

**Tide (feet):**
2.40



## Hole: D76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:08:16 | 32.81 | 30.31 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:17 | 33.14 | 30.64 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:17 | 33.46 | 30.96 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:17 | 33.79 | 31.29 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:18 | 34.12 | 31.62 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:18 | 34.45 | 31.95 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:18 | 34.78 | 32.28 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:08:19 | 35.11 | 32.61 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:08:19 | 35.43 | 32.93 | 1,089 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:08:19 | 35.76 | 33.26 | 1,089 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:08:19 | 36.09 | 33.59 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:20 | 36.42 | 33.92 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:08:20 | 36.75 | 34.25 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:08:20 | 37.07 | 34.57 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:21 | 37.40 | 34.90 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:08:22 | 37.73 | 35.23 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:08:22 | 38.06 | 35.56 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:22 | 38.39 | 35.89 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:22 | 38.71 | 36.21 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:23 | 39.04 | 36.54 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:23 | 39.37 | 36.87 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:23 | 39.70 | 37.20 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:24 | 40.03 | 37.53 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:24 | 40.35 | 37.85 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:24 | 40.68 | 38.18 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:25 | 41.01 | 38.51 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:25 | 41.34 | 38.84 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:25 | 41.67 | 39.17 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:26 | 41.99 | 39.49 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:26 | 42.32 | 39.82 | 1,111 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:08:26 | 42.65 | 40.15 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:27 | 42.98 | 40.48 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:27 | 43.31 | 40.81 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:27 | 43.64 | 41.14 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:27 | 43.96 | 41.46 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:28 | 44.29 | 41.79 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:08:28 | 44.62 | 42.12 | 1,117 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:08:28 | 44.95 | 42.45 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 17:08:29 | 45.28 | 42.78 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 17:08:29 | 45.60 | 43.10 | 1,120 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 17:08:29 | 45.93 | 43.43 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 17:08:30 | 46.26 | 43.76 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 17:08:30 | 46.59 | 44.09 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:30 | 46.92 | 44.42 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:30 | 47.24 | 44.74 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:31 | 47.57 | 45.07 | 1,115 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 17:08:31 | 47.90 | 45.40 | 1,115 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 17:08:31 | 48.23 | 45.73 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:32 | 48.56 | 46.06 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:33 | 48.88 | 46.38 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:32 | 49.21 | 46.71 | 1,104 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:08:33 | 49.54 | 47.04 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:34 | 49.87 | 47.37 | 1,113 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:34 | 50.20 | 47.70 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:34 | 50.53 | 48.03 | 1,114 | 0.24 | 0.37 | 60.9 |
| 4/18/2015 17:08:34 | 50.85 | 48.35 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:08:35 | 51.18 | 48.68 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:35 | 51.51 | 49.01 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:08:35 | 51.84 | 49.34 | 1,111 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:08:36 | 52.17 | 49.67 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:08:36 | 52.49 | 49.99 | 1,102 | 0.24 | 0.37 | 60.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:08:36 | 52.82 | 50.32 | 1,073 | 0.24 | 0.37 | 58.7 |
| 4/18/2015 | 17:08:37 | 53.15 | 50.65 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 | 17:08:37 | 53.48 | 50.98 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 | 17:08:37 | 53.81 | 51.31 | 1,032 | 0.24 | 0.37 | 56.4 |
| 4/18/2015 | 17:08:38 | 54.13 | 51.63 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 | 17:08:38 | 54.46 | 51.96 | 1,015 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 | 17:08:38 | 54.79 | 52.29 | 991 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 | 17:08:39 | 55.12 | 52.62 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 | 17:08:45 | 55.45 | 52.95 | 0 | 0.24 | 0.37 | 0.0 |
| 4/18/2015 | 17:08:58 | 55.77 | 53.27 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 | 17:09:02 | 56.10 | 53.60 | 90 | 0.24 | 0.37 | 4.9 |
| 4/18/2015 | 17:09:07 | 56.43 | 53.93 | 76 | 0.24 | 0.37 | 4.1 |
| 4/18/2015 | 17:09:12 | 56.76 | 54.26 | 67 | 0.24 | 0.37 | 3.6 |
| 4/18/2015 | 17:09:18 | 57.09 | 54.59 | 70 | 0.24 | 0.37 | 3.8 |
| 4/18/2015 | 17:09:23 | 57.41 | 54.91 | 73 | 0.24 | 0.37 | 4.0 |
| 4/18/2015 | 17:09:23 | 57.46 | 54.96 | 73 | 0.24 | 0.37 | 4.0 |

## D76 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:06:18

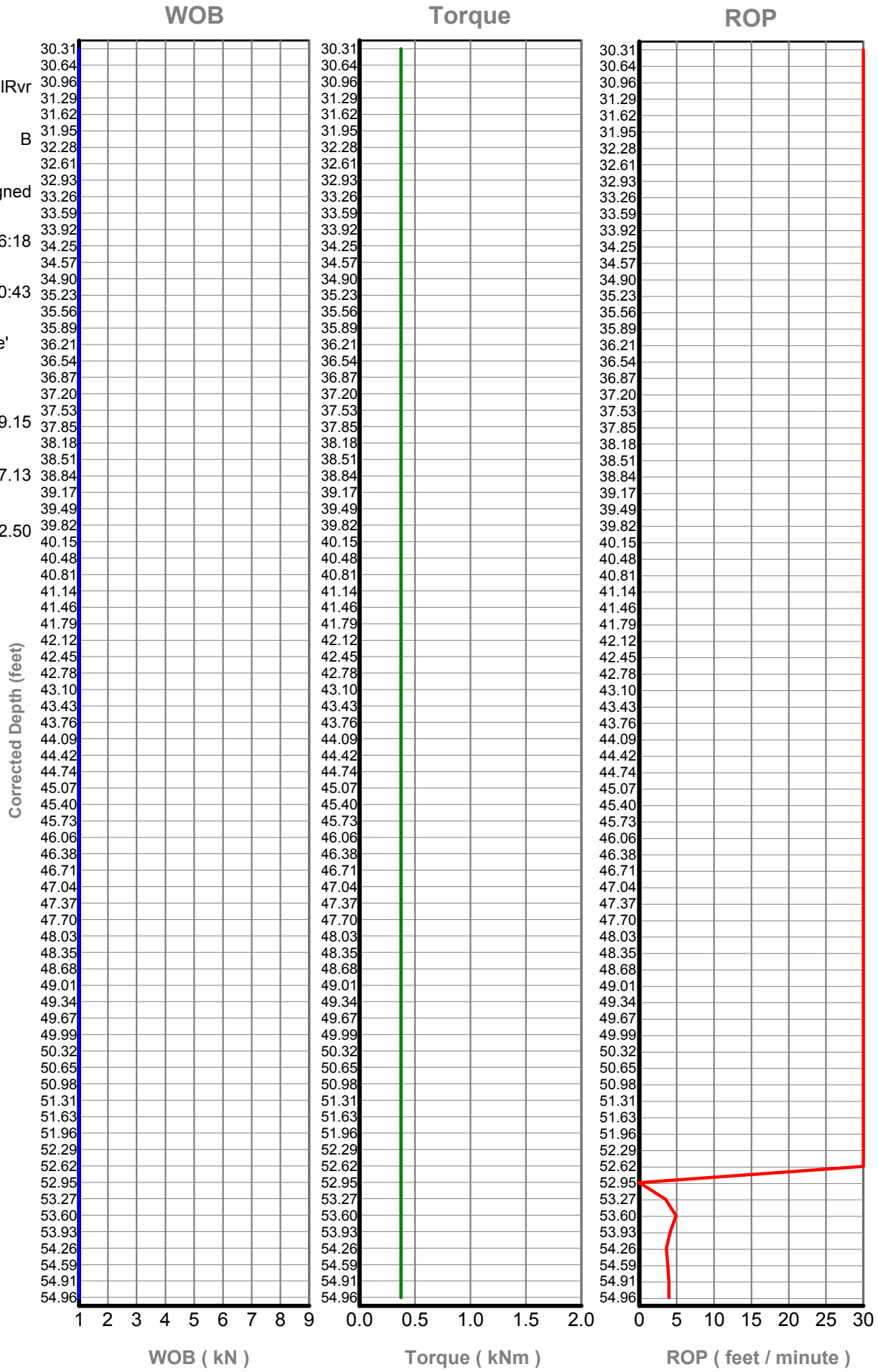
**End Date:**
4/18/2015 17:10:43

**Operator Note:**
'2.5 2.5 b Auto Complete'

**Northing:**
369,699.15

**Easting:**
255,657.13

**Tide (feet):**
2.50



## Hole: D77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:09:47 | 32.81 | 30.31 | 792 | 1.47 | 0.26 | 43.3 |
| 4/18/2015 17:09:48 | 33.14 | 30.64 | 785 | 1.55 | 0.26 | 42.9 |
| 4/18/2015 17:09:48 | 33.46 | 30.96 | 785 | 1.55 | 0.26 | 42.9 |
| 4/18/2015 17:09:48 | 33.79 | 31.29 | 797 | 1.64 | 0.26 | 43.6 |
| 4/18/2015 17:09:49 | 34.12 | 31.62 | 789 | 1.59 | 0.26 | 43.2 |
| 4/18/2015 17:09:49 | 34.45 | 31.95 | 789 | 1.59 | 0.25 | 43.2 |
| 4/18/2015 17:09:50 | 34.78 | 32.28 | 792 | 1.61 | 0.25 | 43.3 |
| 4/18/2015 17:09:50 | 35.11 | 32.61 | 795 | 1.54 | 0.26 | 43.5 |
| 4/18/2015 17:09:51 | 35.43 | 32.93 | 789 | 1.71 | 0.25 | 43.2 |
| 4/18/2015 17:09:51 | 35.76 | 33.26 | 794 | 1.61 | 0.26 | 43.4 |
| 4/18/2015 17:09:52 | 36.09 | 33.59 | 794 | 1.61 | 0.26 | 43.4 |
| 4/18/2015 17:09:52 | 36.42 | 33.92 | 789 | 1.60 | 0.26 | 43.1 |
| 4/18/2015 17:09:52 | 36.75 | 34.25 | 792 | 1.59 | 0.26 | 43.3 |
| 4/18/2015 17:09:53 | 37.07 | 34.57 | 792 | 1.54 | 0.26 | 43.3 |
| 4/18/2015 17:09:53 | 37.40 | 34.90 | 795 | 1.65 | 0.25 | 43.5 |
| 4/18/2015 17:09:54 | 37.73 | 35.23 | 776 | 1.62 | 0.26 | 42.5 |
| 4/18/2015 17:09:54 | 38.06 | 35.56 | 776 | 1.62 | 0.26 | 42.5 |
| 4/18/2015 17:09:55 | 38.39 | 35.89 | 776 | 1.62 | 0.26 | 42.5 |
| 4/18/2015 17:09:55 | 38.71 | 36.21 | 789 | 1.61 | 0.26 | 43.1 |
| 4/18/2015 17:09:55 | 39.04 | 36.54 | 791 | 1.57 | 0.26 | 43.3 |
| 4/18/2015 17:09:56 | 39.37 | 36.87 | 782 | 1.55 | 0.26 | 42.8 |
| 4/18/2015 17:09:56 | 39.70 | 37.20 | 787 | 1.80 | 0.25 | 43.1 |
| 4/18/2015 17:09:57 | 40.03 | 37.53 | 808 | 1.55 | 0.26 | 44.2 |
| 4/18/2015 17:09:58 | 40.35 | 37.85 | 793 | 1.57 | 0.25 | 43.4 |
| 4/18/2015 17:09:58 | 40.68 | 38.18 | 793 | 1.57 | 0.25 | 43.4 |
| 4/18/2015 17:09:58 | 41.01 | 38.51 | 784 | 1.57 | 0.26 | 42.9 |
| 4/18/2015 17:09:59 | 41.34 | 38.84 | 802 | 1.61 | 0.26 | 43.9 |
| 4/18/2015 17:09:59 | 41.67 | 39.17 | 802 | 1.61 | 0.26 | 43.9 |
| 4/18/2015 17:10:00 | 41.99 | 39.49 | 795 | 1.59 | 0.26 | 43.5 |
| 4/18/2015 17:10:00 | 42.32 | 39.82 | 793 | 1.61 | 0.26 | 43.4 |
| 4/18/2015 17:10:01 | 42.65 | 40.15 | 796 | 1.57 | 0.26 | 43.5 |
| 4/18/2015 17:10:01 | 42.98 | 40.48 | 802 | 1.57 | 0.26 | 43.9 |
| 4/18/2015 17:10:02 | 43.31 | 40.81 | 802 | 1.57 | 0.26 | 43.9 |
| 4/18/2015 17:10:02 | 43.64 | 41.14 | 790 | 1.57 | 0.26 | 43.2 |
| 4/18/2015 17:10:02 | 43.96 | 41.46 | 785 | 1.57 | 0.26 | 42.9 |
| 4/18/2015 17:10:03 | 44.29 | 41.79 | 786 | 1.57 | 0.27 | 43.0 |
| 4/18/2015 17:10:03 | 44.62 | 42.12 | 783 | 1.57 | 0.26 | 42.8 |
| 4/18/2015 17:10:04 | 44.95 | 42.45 | 780 | 1.57 | 0.26 | 42.7 |
| 4/18/2015 17:10:04 | 45.28 | 42.78 | 780 | 1.57 | 0.25 | 42.7 |
| 4/18/2015 17:10:05 | 45.60 | 43.10 | 780 | 1.57 | 0.26 | 42.7 |
| 4/18/2015 17:10:05 | 45.93 | 43.43 | 780 | 1.57 | 0.26 | 42.7 |
| 4/18/2015 17:10:05 | 46.26 | 43.76 | 778 | 1.57 | 0.26 | 42.5 |
| 4/18/2015 17:10:06 | 46.59 | 44.09 | 775 | 1.57 | 0.26 | 42.4 |
| 4/18/2015 17:10:06 | 46.92 | 44.42 | 773 | 1.56 | 0.26 | 42.3 |
| 4/18/2015 17:10:07 | 47.24 | 44.74 | 778 | 1.57 | 0.26 | 42.5 |
| 4/18/2015 17:10:08 | 47.57 | 45.07 | 778 | 1.57 | 0.26 | 42.5 |
| 4/18/2015 17:10:08 | 47.90 | 45.40 | 775 | 1.57 | 0.26 | 42.4 |
| 4/18/2015 17:10:09 | 48.23 | 45.73 | 778 | 1.62 | 0.26 | 42.5 |
| 4/18/2015 17:10:09 | 48.56 | 46.06 | 782 | 1.55 | 0.26 | 42.8 |
| 4/18/2015 17:10:10 | 48.88 | 46.38 | 782 | 1.55 | 0.26 | 42.8 |
| 4/18/2015 17:10:10 | 49.21 | 46.71 | 775 | 1.57 | 0.25 | 42.4 |
| 4/18/2015 17:10:10 | 49.54 | 47.04 | 772 | 1.59 | 0.26 | 42.2 |
| 4/18/2015 17:10:11 | 49.87 | 47.37 | 753 | 1.60 | 0.26 | 41.2 |
| 4/18/2015 17:10:11 | 50.20 | 47.70 | 740 | 1.60 | 0.26 | 40.5 |
| 4/18/2015 17:10:12 | 50.53 | 48.03 | 715 | 1.59 | 0.25 | 39.1 |
| 4/18/2015 17:10:12 | 50.85 | 48.35 | 702 | 1.54 | 0.25 | 38.4 |
| 4/18/2015 17:10:13 | 51.18 | 48.68 | 685 | 1.60 | 0.25 | 37.5 |
| 4/18/2015 17:10:13 | 51.51 | 49.01 | 686 | 1.59 | 0.25 | 37.5 |
| 4/18/2015 17:10:14 | 51.84 | 49.34 | 676 | 1.61 | 0.25 | 37.0 |
| 4/18/2015 17:10:14 | 52.17 | 49.67 | 677 | 1.61 | 0.26 | 37.0 |
| 4/18/2015 17:10:15 | 52.49 | 49.99 | 671 | 1.60 | 0.26 | 36.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:10:15 | 52.82 | 50.32 | 668 | 1.60 | 0.26 | 36.5 |
| 4/18/2015 | 17:10:16 | 53.15 | 50.65 | 665 | 1.61 | 0.26 | 36.4 |
| 4/18/2015 | 17:10:17 | 53.48 | 50.98 | 655 | 1.61 | 0.26 | 35.8 |
| 4/18/2015 | 17:10:18 | 53.81 | 51.31 | 656 | 1.61 | 0.26 | 35.9 |
| 4/18/2015 | 17:10:18 | 54.13 | 51.63 | 650 | 1.62 | 0.27 | 35.6 |
| 4/18/2015 | 17:10:19 | 54.46 | 51.96 | 642 | 1.63 | 0.26 | 35.1 |
| 4/18/2015 | 17:10:19 | 54.79 | 52.29 | 630 | 1.59 | 0.25 | 34.5 |
| 4/18/2015 | 17:10:20 | 55.12 | 52.62 | 619 | 1.60 | 0.25 | 33.8 |
| 4/18/2015 | 17:10:20 | 55.45 | 52.95 | 601 | 1.63 | 0.26 | 32.9 |
| 4/18/2015 | 17:10:21 | 55.77 | 53.27 | 575 | 1.64 | 0.25 | 31.4 |
| 4/18/2015 | 17:10:22 | 56.10 | 53.60 | 575 | 1.63 | 0.25 | 31.5 |
| 4/18/2015 | 17:10:22 | 56.43 | 53.93 | 567 | 1.62 | 0.25 | 31.0 |
| 4/18/2015 | 17:10:23 | 56.76 | 54.26 | 567 | 1.63 | 0.25 | 31.0 |
| 4/18/2015 | 17:10:23 | 57.09 | 54.59 | 561 | 1.64 | 0.25 | 30.7 |
| 4/18/2015 | 17:10:24 | 57.41 | 54.91 | 552 | 1.63 | 0.25 | 30.2 |
| 4/18/2015 | 17:10:25 | 57.74 | 55.24 | 546 | 1.62 | 0.25 | 29.9 |
| 4/18/2015 | 17:10:25 | 58.07 | 55.57 | 540 | 1.62 | 0.25 | 29.5 |
| 4/18/2015 | 17:10:25 | 58.13 | 55.63 | 540 | 1.62 | 0.25 | 29.5 |

## D77 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:07:55

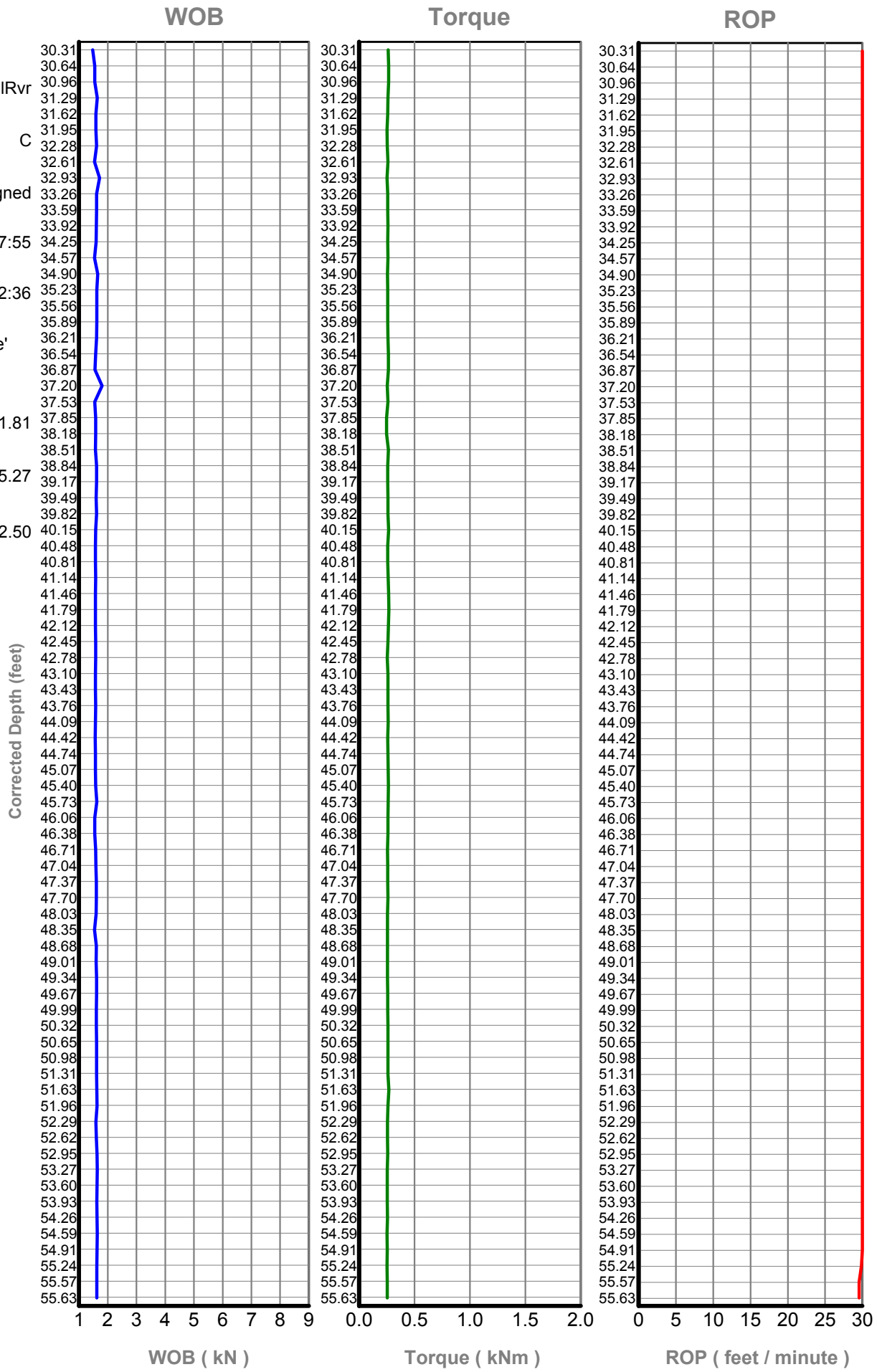
**End Date:**
4/18/2015 17:12:36

**Operator Note:**
'2.5 2.5 c Auto Complete'

**Northing:**
369,731.81

**Easting:**
255,725.27

**Tide (feet):**
2.50



## Hole: D78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:38:39 | 32.15 | 30.25 | 1,110 | 0.26 | 0.33 | 60.7 |
| 4/18/2015 9:38:39 | 32.48 | 30.58 | 1,108 | 0.26 | 0.33 | 60.6 |
| 4/18/2015 9:38:40 | 32.81 | 30.91 | 1,098 | 0.26 | 0.34 | 60.0 |
| 4/18/2015 9:38:40 | 33.14 | 31.24 | 1,098 | 0.26 | 0.34 | 60.0 |
| 4/18/2015 9:38:40 | 33.46 | 31.56 | 1,104 | 0.26 | 0.34 | 60.4 |
| 4/18/2015 9:38:41 | 33.79 | 31.89 | 1,114 | 0.26 | 0.33 | 60.9 |
| 4/18/2015 9:38:41 | 34.12 | 32.22 | 1,114 | 0.26 | 0.33 | 60.9 |
| 4/18/2015 9:38:41 | 34.45 | 32.55 | 1,095 | 0.26 | 0.33 | 59.9 |
| 4/18/2015 9:38:42 | 34.78 | 32.88 | 1,095 | 0.26 | 0.33 | 59.9 |
| 4/18/2015 9:38:42 | 35.11 | 33.21 | 1,092 | 0.26 | 0.33 | 59.7 |
| 4/18/2015 9:38:42 | 35.43 | 33.53 | 1,098 | 0.26 | 0.33 | 60.1 |
| 4/18/2015 9:38:43 | 35.76 | 33.86 | 1,098 | 0.26 | 0.33 | 60.1 |
| 4/18/2015 9:38:43 | 36.09 | 34.19 | 1,084 | 0.26 | 0.34 | 59.3 |
| 4/18/2015 9:38:43 | 36.42 | 34.52 | 1,087 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:44 | 36.75 | 34.85 | 1,087 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:44 | 37.07 | 35.17 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:44 | 37.40 | 35.50 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:44 | 37.73 | 35.83 | 1,100 | 0.26 | 0.32 | 60.1 |
| 4/18/2015 9:38:45 | 38.06 | 36.16 | 1,087 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:45 | 38.39 | 36.49 | 1,087 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:45 | 38.71 | 36.81 | 1,084 | 0.26 | 0.33 | 59.3 |
| 4/18/2015 9:38:46 | 39.04 | 37.14 | 1,080 | 0.26 | 0.33 | 59.1 |
| 4/18/2015 9:38:46 | 39.37 | 37.47 | 1,080 | 0.26 | 0.33 | 59.1 |
| 4/18/2015 9:38:46 | 39.70 | 37.80 | 1,093 | 0.26 | 0.34 | 59.8 |
| 4/18/2015 9:38:47 | 40.03 | 38.13 | 1,093 | 0.26 | 0.34 | 59.8 |
| 4/18/2015 9:38:47 | 40.35 | 38.45 | 1,078 | 0.26 | 0.33 | 58.9 |
| 4/18/2015 9:38:47 | 40.68 | 38.78 | 1,063 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:38:48 | 41.01 | 39.11 | 1,063 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:38:48 | 41.34 | 39.44 | 1,063 | 0.26 | 0.33 | 58.2 |
| 4/18/2015 9:38:49 | 41.67 | 39.77 | 1,084 | 0.26 | 0.33 | 59.3 |
| 4/18/2015 9:38:49 | 41.99 | 40.09 | 1,084 | 0.26 | 0.33 | 59.3 |
| 4/18/2015 9:38:49 | 42.32 | 40.42 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:38:50 | 42.65 | 40.75 | 1,040 | 0.26 | 0.32 | 56.9 |
| 4/18/2015 9:38:50 | 42.98 | 41.08 | 1,040 | 0.26 | 0.32 | 56.9 |
| 4/18/2015 9:38:50 | 43.31 | 41.41 | 1,040 | 0.26 | 0.33 | 56.9 |
| 4/18/2015 9:38:51 | 43.64 | 41.74 | 1,040 | 0.26 | 0.33 | 56.9 |
| 4/18/2015 9:38:51 | 43.96 | 42.06 | 1,059 | 0.26 | 0.24 | 57.9 |
| 4/18/2015 9:38:51 | 44.29 | 42.39 | 1,080 | 0.26 | 0.33 | 59.0 |
| 4/18/2015 9:38:52 | 44.62 | 42.72 | 1,080 | 0.26 | 0.33 | 59.0 |
| 4/18/2015 9:38:52 | 44.95 | 43.05 | 1,068 | 0.26 | 0.32 | 58.4 |
| 4/18/2015 9:38:52 | 45.28 | 43.38 | 1,092 | 0.26 | 0.33 | 59.7 |
| 4/18/2015 9:38:53 | 45.60 | 43.70 | 1,092 | 0.26 | 0.33 | 59.7 |
| 4/18/2015 9:38:53 | 45.93 | 44.03 | 1,109 | 0.26 | 0.33 | 60.7 |
| 4/18/2015 9:38:53 | 46.26 | 44.36 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:54 | 46.59 | 44.69 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:54 | 46.92 | 45.02 | 1,088 | 0.26 | 0.33 | 59.5 |
| 4/18/2015 9:38:54 | 47.24 | 45.34 | 1,088 | 0.26 | 0.33 | 59.5 |
| 4/18/2015 9:38:54 | 47.57 | 45.67 | 1,087 | 0.26 | 0.32 | 59.4 |
| 4/18/2015 9:38:55 | 47.90 | 46.00 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:55 | 48.23 | 46.33 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:38:55 | 48.56 | 46.66 | 1,084 | 0.27 | 0.32 | 59.3 |
| 4/18/2015 9:38:56 | 48.88 | 46.98 | 1,087 | 0.27 | 0.33 | 59.4 |
| 4/18/2015 9:38:56 | 49.21 | 47.31 | 1,087 | 0.27 | 0.33 | 59.4 |
| 4/18/2015 9:38:56 | 49.54 | 47.64 | 1,086 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:57 | 49.87 | 47.97 | 1,086 | 0.26 | 0.33 | 59.4 |
| 4/18/2015 9:38:57 | 50.20 | 48.30 | 1,093 | 0.26 | 0.33 | 59.7 |
| 4/18/2015 9:38:57 | 50.53 | 48.63 | 1,084 | 0.26 | 0.33 | 59.3 |
| 4/18/2015 9:38:58 | 50.85 | 48.95 | 1,084 | 0.26 | 0.33 | 59.3 |
| 4/18/2015 9:38:58 | 51.18 | 49.28 | 1,087 | 0.26 | 0.34 | 59.4 |
| 4/18/2015 9:38:58 | 51.51 | 49.61 | 1,064 | 0.26 | 0.34 | 58.2 |
| 4/18/2015 9:38:59 | 51.84 | 49.94 | 1,064 | 0.26 | 0.34 | 58.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:38:59 | 52.17 | 50.27 | 1,057 | 0.26 | 0.34 | 57.8 |
| 4/18/2015 | 9:38:59 | 52.49 | 50.59 | 1,027 | 0.27 | 0.34 | 56.2 |
| 4/18/2015 | 9:39:00 | 52.82 | 50.92 | 1,027 | 0.27 | 0.34 | 56.2 |
| 4/18/2015 | 9:39:00 | 53.15 | 51.25 | 1,007 | 0.26 | 0.34 | 55.1 |
| 4/18/2015 | 9:39:01 | 53.48 | 51.58 | 981 | 0.26 | 0.34 | 53.6 |
| 4/18/2015 | 9:39:01 | 53.81 | 51.91 | 983 | 0.26 | 0.34 | 53.8 |
| 4/18/2015 | 9:39:02 | 54.13 | 52.23 | 983 | 0.26 | 0.34 | 53.8 |
| 4/18/2015 | 9:39:02 | 54.46 | 52.56 | 957 | 0.26 | 0.34 | 52.3 |
| 4/18/2015 | 9:39:02 | 54.79 | 52.89 | 951 | 0.28 | 0.34 | 52.0 |
| 4/18/2015 | 9:39:03 | 55.12 | 53.22 | 935 | 0.26 | 0.34 | 51.1 |
| 4/18/2015 | 9:39:03 | 55.45 | 53.55 | 935 | 0.26 | 0.34 | 51.1 |
| 4/18/2015 | 9:39:03 | 55.77 | 53.87 | 938 | 0.26 | 0.34 | 51.3 |
| 4/18/2015 | 9:39:04 | 56.10 | 54.20 | 929 | 0.26 | 0.35 | 50.8 |
| 4/18/2015 | 9:39:04 | 56.43 | 54.53 | 920 | 0.25 | 0.34 | 50.3 |
| 4/18/2015 | 9:39:05 | 56.76 | 54.86 | 920 | 0.25 | 0.34 | 50.3 |
| 4/18/2015 | 9:39:05 | 57.09 | 55.19 | 909 | 0.26 | 0.34 | 49.7 |
| 4/18/2015 | 9:39:05 | 57.41 | 55.51 | 922 | 0.26 | 0.34 | 50.4 |
| 4/18/2015 | 9:39:06 | 57.74 | 55.84 | 905 | 0.26 | 0.34 | 49.5 |
| 4/18/2015 | 9:39:06 | 58.07 | 56.17 | 905 | 0.26 | 0.34 | 49.5 |
| 4/18/2015 | 9:39:06 | 58.39 | 56.49 | 899 | 0.24 | 0.35 | 49.2 |

## D78 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:36:41

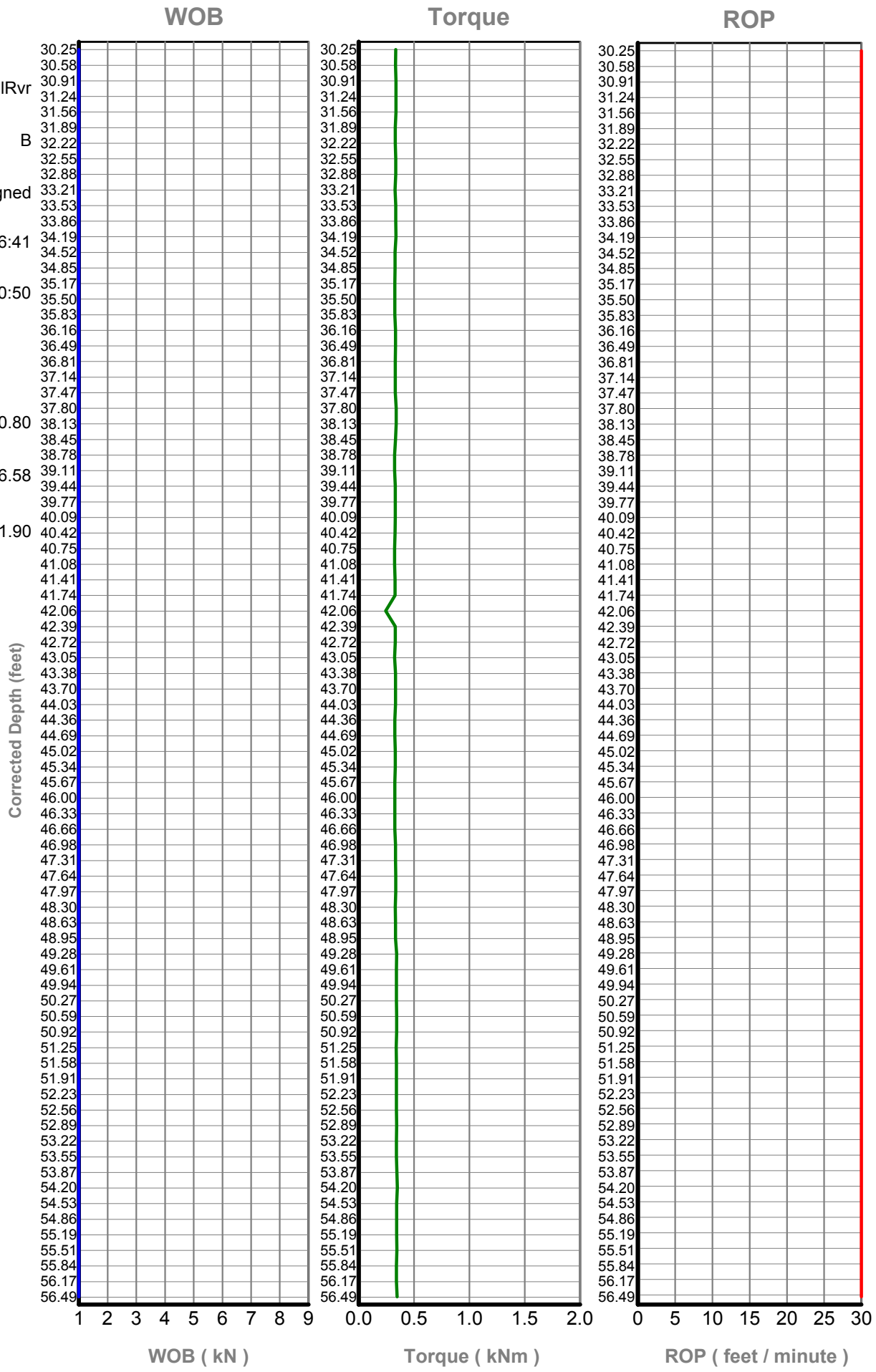
**End Date:**
4/18/2015 9:40:50

**Operator Note:**
'1.9 2.0 b No rock'

**Northing:**
369,770.80

**Easting:**
255,816.58

**Tide (feet):**
1.90



## Hole: D79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:43:09 | 32.15 | 30.05 | 1,111 | 0.26 | 0.32 | 60.7 |
| 4/18/2015 9:43:09 | 32.48 | 30.38 | 1,111 | 0.28 | 0.31 | 60.7 |
| 4/18/2015 9:43:10 | 32.81 | 30.71 | 1,120 | 0.25 | 0.32 | 61.2 |
| 4/18/2015 9:43:10 | 33.14 | 31.04 | 1,120 | 0.25 | 0.32 | 61.2 |
| 4/18/2015 9:43:10 | 33.46 | 31.36 | 1,098 | 0.29 | 0.33 | 60.1 |
| 4/18/2015 9:43:11 | 33.79 | 31.69 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 9:43:11 | 34.12 | 32.02 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 9:43:11 | 34.45 | 32.35 | 1,063 | 0.28 | 0.32 | 58.1 |
| 4/18/2015 9:43:12 | 34.78 | 32.68 | 1,063 | 0.28 | 0.32 | 58.1 |
| 4/18/2015 9:43:12 | 35.11 | 33.01 | 1,083 | 0.27 | 0.32 | 59.2 |
| 4/18/2015 9:43:12 | 35.43 | 33.33 | 1,083 | 0.22 | 0.32 | 59.2 |
| 4/18/2015 9:43:13 | 35.76 | 33.66 | 1,083 | 0.22 | 0.32 | 59.2 |
| 4/18/2015 9:43:13 | 36.09 | 33.99 | 1,082 | 0.26 | 0.32 | 59.1 |
| 4/18/2015 9:43:13 | 36.42 | 34.32 | 1,050 | 0.26 | 0.32 | 57.4 |
| 4/18/2015 9:43:14 | 36.75 | 34.65 | 1,050 | 0.26 | 0.32 | 57.4 |
| 4/18/2015 9:43:14 | 37.07 | 34.97 | 1,072 | 0.27 | 0.32 | 58.6 |
| 4/18/2015 9:43:14 | 37.40 | 35.30 | 1,072 | 0.26 | 0.32 | 58.6 |
| 4/18/2015 9:43:15 | 37.73 | 35.63 | 1,072 | 0.26 | 0.32 | 58.6 |
| 4/18/2015 9:43:15 | 38.06 | 35.96 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/18/2015 9:43:15 | 38.39 | 36.29 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/18/2015 9:43:15 | 38.71 | 36.61 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/18/2015 9:43:16 | 39.04 | 36.94 | 1,103 | 0.26 | 0.32 | 60.3 |
| 4/18/2015 9:43:16 | 39.37 | 37.27 | 1,103 | 0.26 | 0.32 | 60.3 |
| 4/18/2015 9:43:16 | 39.70 | 37.60 | 1,104 | 0.26 | 0.32 | 60.4 |
| 4/18/2015 9:43:17 | 40.03 | 37.93 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/18/2015 9:43:17 | 40.35 | 38.25 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/18/2015 9:43:17 | 40.68 | 38.58 | 1,100 | 0.26 | 0.32 | 60.1 |
| 4/18/2015 9:43:18 | 41.01 | 38.91 | 1,100 | 0.26 | 0.32 | 60.1 |
| 4/18/2015 9:43:18 | 41.34 | 39.24 | 1,119 | 0.26 | 0.37 | 61.2 |
| 4/18/2015 9:43:18 | 41.67 | 39.57 | 1,095 | 0.27 | 0.32 | 59.9 |
| 4/18/2015 9:43:19 | 41.99 | 39.89 | 1,095 | 0.27 | 0.32 | 59.9 |
| 4/18/2015 9:43:19 | 42.32 | 40.22 | 1,079 | 0.26 | 0.32 | 59.0 |
| 4/18/2015 9:43:19 | 42.65 | 40.55 | 1,091 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:43:20 | 42.98 | 40.88 | 1,091 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:43:20 | 43.31 | 41.21 | 1,097 | 0.26 | 0.32 | 60.0 |
| 4/18/2015 9:43:21 | 43.64 | 41.54 | 1,097 | 0.26 | 0.32 | 60.0 |
| 4/18/2015 9:43:21 | 43.96 | 41.86 | 1,087 | 0.26 | 0.32 | 59.4 |
| 4/18/2015 9:43:21 | 44.29 | 42.19 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:43:22 | 44.62 | 42.52 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:43:22 | 44.95 | 42.85 | 1,105 | 0.26 | 0.32 | 60.4 |
| 4/18/2015 9:43:22 | 45.28 | 43.18 | 1,096 | 0.26 | 0.33 | 59.9 |
| 4/18/2015 9:43:23 | 45.60 | 43.50 | 1,096 | 0.26 | 0.33 | 59.9 |
| 4/18/2015 9:43:23 | 45.93 | 43.83 | 1,090 | 0.26 | 0.32 | 59.6 |
| 4/18/2015 9:43:23 | 46.26 | 44.16 | 1,080 | 0.26 | 0.33 | 59.1 |
| 4/18/2015 9:43:24 | 46.59 | 44.49 | 1,080 | 0.26 | 0.33 | 59.1 |
| 4/18/2015 9:43:24 | 46.92 | 44.82 | 1,090 | 0.26 | 0.33 | 59.6 |
| 4/18/2015 9:43:24 | 47.24 | 45.14 | 1,090 | 0.26 | 0.33 | 59.6 |
| 4/18/2015 9:43:24 | 47.57 | 45.47 | 1,081 | 0.26 | 0.32 | 59.1 |
| 4/18/2015 9:43:25 | 47.90 | 45.80 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/18/2015 9:43:25 | 48.23 | 46.13 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/18/2015 9:43:25 | 48.56 | 46.46 | 1,078 | 0.26 | 0.32 | 58.9 |
| 4/18/2015 9:43:26 | 48.88 | 46.78 | 1,101 | 0.26 | 0.32 | 60.2 |
| 4/18/2015 9:43:26 | 49.21 | 47.11 | 1,101 | 0.26 | 0.32 | 60.2 |
| 4/18/2015 9:43:26 | 49.54 | 47.44 | 1,091 | 0.26 | 0.32 | 59.7 |
| 4/18/2015 9:43:27 | 49.87 | 47.77 | 1,091 | 0.26 | 0.32 | 59.7 |
| 4/18/2015 9:43:27 | 50.20 | 48.10 | 1,088 | 0.26 | 0.33 | 59.5 |
| 4/18/2015 9:43:27 | 50.53 | 48.43 | 1,073 | 0.26 | 0.33 | 58.7 |
| 4/18/2015 9:43:28 | 50.85 | 48.75 | 1,073 | 0.26 | 0.33 | 58.7 |
| 4/18/2015 9:43:28 | 51.18 | 49.08 | 1,077 | 0.25 | 0.33 | 58.9 |
| 4/18/2015 9:43:28 | 51.51 | 49.41 | 1,043 | 0.26 | 0.33 | 57.0 |
| 4/18/2015 9:43:29 | 51.84 | 49.74 | 1,020 | 0.26 | 0.34 | 55.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:43:29 | 52.17 | 50.07 | 1,020 | 0.26 | 0.34 | 55.8 |
| 4/18/2015 | 9:43:29 | 52.49 | 50.39 | 995 | 0.26 | 0.33 | 54.4 |
| 4/18/2015 | 9:43:30 | 52.82 | 50.72 | 995 | 0.26 | 0.33 | 54.4 |
| 4/18/2015 | 9:43:31 | 53.15 | 51.05 | 995 | 0.26 | 0.33 | 54.4 |
| 4/18/2015 | 9:43:30 | 53.48 | 51.38 | 974 | 0.26 | 0.33 | 53.3 |
| 4/18/2015 | 9:43:31 | 53.81 | 51.71 | 963 | 0.26 | 0.34 | 52.6 |
| 4/18/2015 | 9:43:32 | 54.13 | 52.03 | 951 | 0.26 | 0.34 | 52.0 |
| 4/18/2015 | 9:43:32 | 54.46 | 52.36 | 951 | 0.26 | 0.34 | 52.0 |
| 4/18/2015 | 9:43:32 | 54.79 | 52.69 | 951 | 0.26 | 0.33 | 52.0 |
| 4/18/2015 | 9:43:33 | 55.12 | 53.02 | 934 | 0.26 | 0.34 | 51.1 |
| 4/18/2015 | 9:43:33 | 55.45 | 53.35 | 928 | 0.26 | 0.34 | 50.7 |
| 4/18/2015 | 9:43:34 | 55.77 | 53.67 | 928 | 0.26 | 0.34 | 50.7 |
| 4/18/2015 | 9:43:34 | 56.10 | 54.00 | 917 | 0.26 | 0.34 | 50.1 |
| 4/18/2015 | 9:43:34 | 56.43 | 54.33 | 919 | 0.26 | 0.34 | 50.3 |
| 4/18/2015 | 9:43:35 | 56.76 | 54.66 | 911 | 0.26 | 0.33 | 49.8 |
| 4/18/2015 | 9:43:35 | 57.09 | 54.99 | 911 | 0.26 | 0.33 | 49.8 |
| 4/18/2015 | 9:43:35 | 57.20 | 55.10 | 883 | 0.24 | 0.32 | 48.3 |

## D79 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:41:33

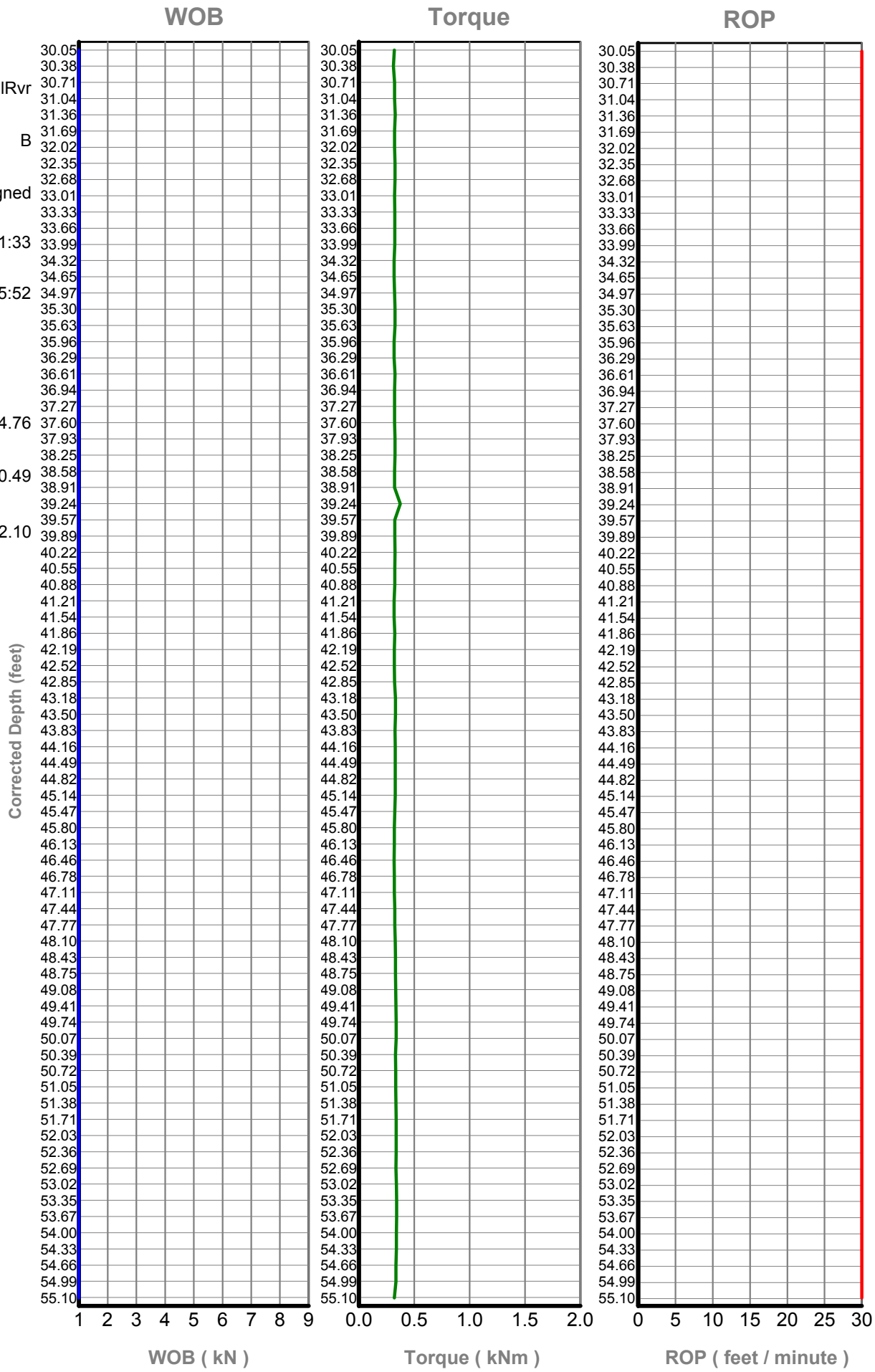
**End Date:**
4/18/2015 9:45:52

**Operator Note:**
'2.1 2.0 b No rock'

**Northing:**
369,794.76

**Easting:**
255,870.49

**Tide (feet):**
2.10



## Hole: D8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:22:11 | 34.78 | 30.28 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 15:22:11 | 35.11 | 30.61 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:11 | 35.43 | 30.93 | 1,027 | 0.24 | 0.37 | 56.1 |
| 4/18/2015 15:22:12 | 35.76 | 31.26 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:12 | 36.09 | 31.59 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:12 | 36.42 | 31.92 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:13 | 36.75 | 32.25 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:13 | 37.07 | 32.57 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:13 | 37.40 | 32.90 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:14 | 37.73 | 33.23 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:14 | 38.06 | 33.56 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:14 | 38.39 | 33.89 | 1,030 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:15 | 38.71 | 34.21 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:15 | 39.04 | 34.54 | 1,023 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 15:22:15 | 39.37 | 34.87 | 1,029 | 0.24 | 0.37 | 56.3 |
| 4/18/2015 15:22:16 | 39.70 | 35.20 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/18/2015 15:22:29 | 40.03 | 35.53 | 9 | 0.24 | 0.37 | 0.5 |
| 4/18/2015 15:22:33 | 40.35 | 35.85 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 15:22:38 | 40.68 | 36.18 | 87 | 0.24 | 0.37 | 4.8 |
| 4/18/2015 15:22:41 | 41.01 | 36.51 | 108 | 0.24 | 0.37 | 5.9 |
| 4/18/2015 15:22:44 | 41.34 | 36.84 | 137 | 0.24 | 0.37 | 7.5 |
| 4/18/2015 15:22:48 | 41.67 | 37.17 | 99 | 0.24 | 0.37 | 5.4 |
| 4/18/2015 15:22:53 | 41.99 | 37.49 | 64 | 0.24 | 0.37 | 3.5 |
| 4/18/2015 15:22:59 | 42.32 | 37.82 | 67 | 0.24 | 0.37 | 3.7 |
| 4/18/2015 15:23:05 | 42.65 | 38.15 | 58 | 0.24 | 0.37 | 3.2 |
| 4/18/2015 15:23:12 | 42.98 | 38.48 | 49 | 0.24 | 0.37 | 2.7 |

## D8 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:18:19

**End Date:**
4/18/2015 15:24:19

**Operator Note:**
'4.5 4.6 b Rock @ 42"

**Northing:**
370,112.99

**Easting:**
255,482.78

**Tide (feet):**
4.50



## Hole: D80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 18:35:51 | 31.17 | 30.07 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:35:51 | 31.50 | 30.40 | 1,058 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:35:51 | 31.82 | 30.72 | 1,072 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 18:35:52 | 32.15 | 31.05 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 18:35:52 | 32.48 | 31.38 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 18:35:52 | 32.81 | 31.71 | 1,059 | 0.24 | 0.37 | 57.9 |
| 4/18/2015 18:35:53 | 33.14 | 32.04 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 18:35:54 | 33.46 | 32.36 | 1,083 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 18:35:54 | 33.79 | 32.69 | 1,080 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 18:35:54 | 34.12 | 33.02 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 18:35:55 | 34.45 | 33.35 | 1,065 | 0.24 | 0.37 | 58.2 |
| 4/18/2015 18:35:55 | 34.78 | 33.68 | 1,051 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 18:35:55 | 35.11 | 34.01 | 1,051 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 18:35:56 | 35.43 | 34.33 | 1,051 | 0.24 | 0.37 | 57.5 |
| 4/18/2015 18:35:56 | 35.76 | 34.66 | 1,069 | 0.24 | 0.37 | 58.4 |
| 4/18/2015 18:35:56 | 36.09 | 34.99 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/18/2015 18:35:57 | 36.42 | 35.32 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/18/2015 18:35:57 | 36.75 | 35.65 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:35:57 | 37.07 | 35.97 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:35:58 | 37.40 | 36.30 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:35:58 | 37.73 | 36.63 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 18:35:58 | 38.06 | 36.96 | 1,049 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 18:35:58 | 38.39 | 37.29 | 1,046 | 0.24 | 0.37 | 57.2 |
| 4/18/2015 18:35:59 | 38.71 | 37.61 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 18:35:59 | 39.04 | 37.94 | 1,050 | 0.24 | 0.37 | 57.4 |
| 4/18/2015 18:35:59 | 39.37 | 38.27 | 1,035 | 0.24 | 0.37 | 56.6 |
| 4/18/2015 18:36:00 | 39.70 | 38.60 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/18/2015 18:36:00 | 40.03 | 38.93 | 1,054 | 0.24 | 0.37 | 57.6 |
| 4/18/2015 18:36:00 | 40.35 | 39.25 | 1,077 | 0.24 | 0.37 | 58.9 |
| 4/18/2015 18:36:01 | 40.68 | 39.58 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:36:01 | 41.01 | 39.91 | 1,057 | 0.24 | 0.37 | 57.8 |
| 4/18/2015 18:36:01 | 41.34 | 40.24 | 1,048 | 0.24 | 0.37 | 57.3 |
| 4/18/2015 18:36:02 | 41.67 | 40.57 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 18:36:02 | 41.99 | 40.89 | 1,042 | 0.24 | 0.37 | 57.0 |
| 4/18/2015 18:36:02 | 42.32 | 41.22 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 18:36:03 | 42.65 | 41.55 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 18:36:03 | 42.98 | 41.88 | 1,021 | 0.24 | 0.37 | 55.8 |
| 4/18/2015 18:36:03 | 43.31 | 42.21 | 1,008 | 0.24 | 0.37 | 55.1 |
| 4/18/2015 18:36:04 | 43.64 | 42.54 | 990 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 18:36:04 | 43.96 | 42.86 | 990 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 18:36:05 | 44.29 | 43.19 | 990 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 18:36:05 | 44.62 | 43.52 | 996 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:06 | 44.95 | 43.85 | 1,005 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 18:36:06 | 45.28 | 44.18 | 1,005 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 18:36:06 | 45.60 | 44.50 | 999 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 18:36:07 | 45.93 | 44.83 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:07 | 46.26 | 45.16 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:07 | 46.59 | 45.49 | 1,018 | 0.24 | 0.37 | 55.7 |
| 4/18/2015 18:36:08 | 46.92 | 45.82 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 18:36:08 | 47.24 | 46.14 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 18:36:08 | 47.57 | 46.47 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:09 | 47.90 | 46.80 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 18:36:09 | 48.23 | 47.13 | 1,003 | 0.24 | 0.37 | 54.8 |
| 4/18/2015 18:36:09 | 48.56 | 47.46 | 1,000 | 0.24 | 0.37 | 54.7 |
| 4/18/2015 18:36:10 | 48.88 | 47.78 | 1,003 | 0.24 | 0.37 | 54.9 |
| 4/18/2015 18:36:10 | 49.21 | 48.11 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:11 | 49.54 | 48.44 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 18:36:11 | 49.87 | 48.77 | 1,006 | 0.24 | 0.37 | 55.0 |
| 4/18/2015 18:36:11 | 50.20 | 49.10 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 18:36:12 | 50.53 | 49.43 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 18:36:12 | 50.85 | 49.75 | 966 | 0.24 | 0.37 | 52.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 18:36:12 | 51.18 | 50.08 | 931 | 0.24 | 0.37 | 50.9 |
| 4/18/2015 | 18:36:13 | 51.51 | 50.41 | 916 | 0.24 | 0.37 | 50.1 |
| 4/18/2015 | 18:36:13 | 51.84 | 50.74 | 893 | 0.24 | 0.37 | 48.8 |
| 4/18/2015 | 18:36:14 | 52.17 | 51.07 | 893 | 0.24 | 0.37 | 48.8 |
| 4/18/2015 | 18:36:14 | 52.49 | 51.39 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 | 18:36:14 | 52.82 | 51.72 | 879 | 0.24 | 0.37 | 48.1 |
| 4/18/2015 | 18:36:15 | 53.15 | 52.05 | 890 | 0.24 | 0.37 | 48.6 |
| 4/18/2015 | 18:36:15 | 53.48 | 52.38 | 890 | 0.24 | 0.37 | 48.6 |
| 4/18/2015 | 18:36:15 | 53.81 | 52.71 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 | 18:36:16 | 54.13 | 53.03 | 882 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 | 18:36:17 | 54.46 | 53.36 | 881 | 0.24 | 0.37 | 48.2 |
| 4/18/2015 | 18:36:17 | 54.79 | 53.69 | 872 | 0.24 | 0.37 | 47.7 |
| 4/18/2015 | 18:36:18 | 55.12 | 54.02 | 872 | 0.24 | 0.37 | 47.7 |
| 4/18/2015 | 18:36:18 | 55.45 | 54.35 | 864 | 0.24 | 0.37 | 47.2 |
| 4/18/2015 | 18:36:18 | 55.77 | 54.67 | 856 | 0.24 | 0.37 | 46.8 |
| 4/18/2015 | 18:36:19 | 56.10 | 55.00 | 855 | 0.24 | 0.37 | 46.8 |
| 4/18/2015 | 18:36:19 | 56.43 | 55.33 | 844 | 0.24 | 0.37 | 46.2 |
| 4/18/2015 | 18:36:20 | 56.76 | 55.66 | 846 | 0.24 | 0.37 | 46.3 |
| 4/18/2015 | 18:36:20 | 57.09 | 55.99 | 846 | 0.24 | 0.37 | 46.3 |
| 4/18/2015 | 18:36:20 | 57.41 | 56.31 | 835 | 0.24 | 0.37 | 45.7 |
| 4/18/2015 | 18:36:21 | 57.74 | 56.64 | 832 | 0.24 | 0.37 | 45.5 |
| 4/18/2015 | 18:36:21 | 58.07 | 56.97 | 824 | 0.24 | 0.37 | 45.0 |
| 4/18/2015 | 18:36:21 | 58.31 | 57.21 | 824 | 0.24 | 0.37 | 45.0 |

## D80 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 18:34:42

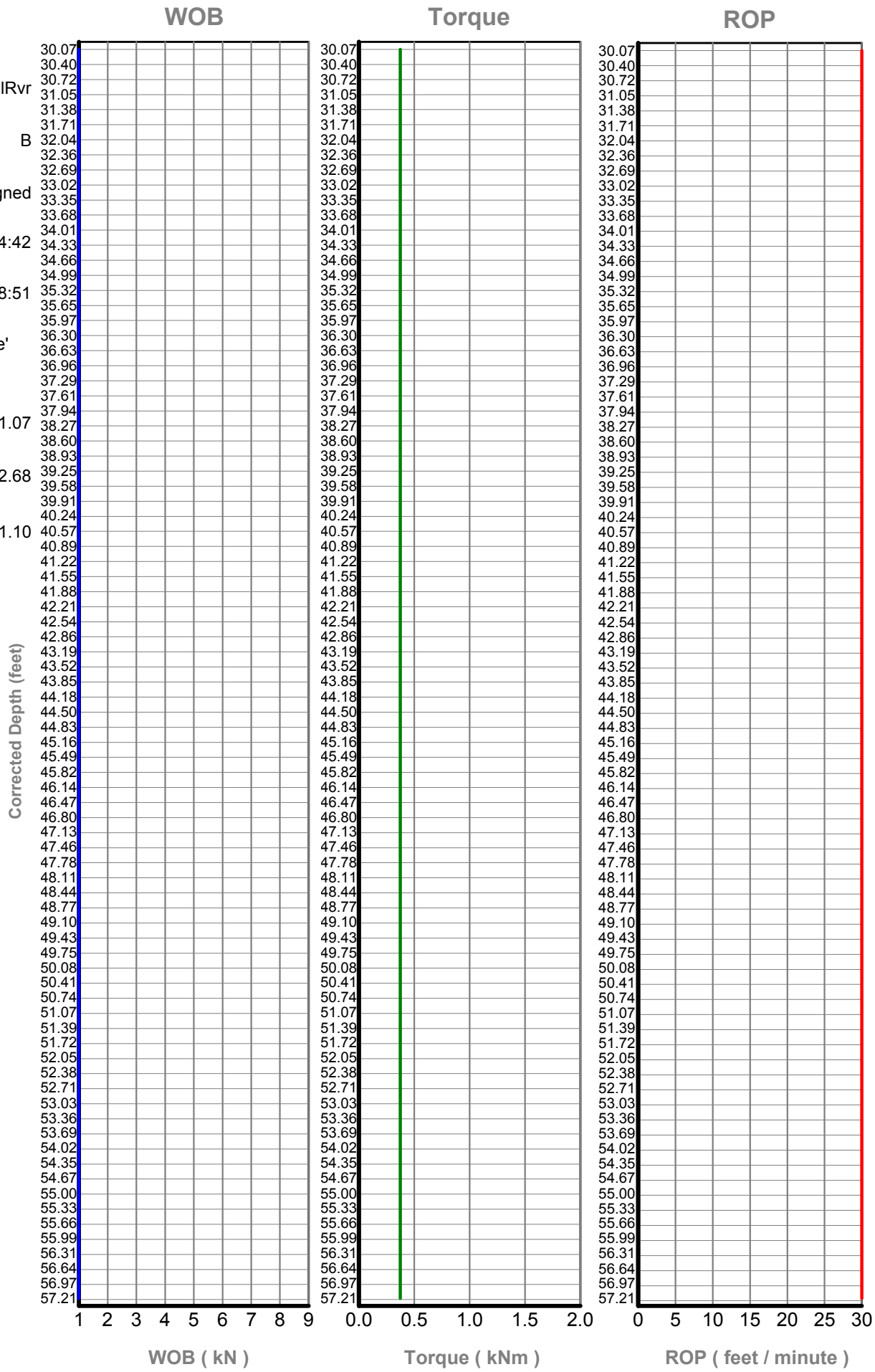
**End Date:**
4/18/2015 18:38:51

**Operator Note:**
'1.1 1.8 b Auto Complete'

**Northing:**
369,521.07

**Easting:**
255,442.68

**Tide (feet):**
1.10



## Hole: D81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 18:31:29 | 31.50 | 30.30 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:30 | 31.82 | 30.62 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:30 | 32.15 | 30.95 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:30 | 32.48 | 31.28 | 944 | 0.24 | 0.37 | 51.6 |
| 4/18/2015 18:31:31 | 32.81 | 31.61 | 938 | 0.24 | 0.37 | 51.3 |
| 4/18/2015 18:31:31 | 33.14 | 31.94 | 938 | 0.24 | 0.37 | 51.3 |
| 4/18/2015 18:31:31 | 33.46 | 32.26 | 927 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 18:31:32 | 33.79 | 32.59 | 920 | 0.24 | 0.37 | 50.3 |
| 4/18/2015 18:31:32 | 34.12 | 32.92 | 922 | 0.24 | 0.37 | 50.4 |
| 4/18/2015 18:31:33 | 34.45 | 33.25 | 922 | 0.24 | 0.37 | 50.4 |
| 4/18/2015 18:31:33 | 34.78 | 33.58 | 922 | 0.24 | 0.37 | 50.4 |
| 4/18/2015 18:31:33 | 35.11 | 33.91 | 918 | 0.24 | 0.37 | 50.2 |
| 4/18/2015 18:31:34 | 35.43 | 34.23 | 909 | 0.24 | 0.37 | 49.7 |
| 4/18/2015 18:31:34 | 35.76 | 34.56 | 909 | 0.24 | 0.37 | 49.7 |
| 4/18/2015 18:31:34 | 36.09 | 34.89 | 909 | 0.24 | 0.37 | 49.7 |
| 4/18/2015 18:31:35 | 36.42 | 35.22 | 917 | 0.24 | 0.37 | 50.2 |
| 4/18/2015 18:31:35 | 36.75 | 35.55 | 933 | 0.24 | 0.37 | 51.0 |
| 4/18/2015 18:31:36 | 37.07 | 35.87 | 933 | 0.24 | 0.37 | 51.0 |
| 4/18/2015 18:31:36 | 37.40 | 36.20 | 934 | 0.24 | 0.37 | 51.1 |
| 4/18/2015 18:31:36 | 37.73 | 36.53 | 943 | 0.24 | 0.37 | 51.5 |
| 4/18/2015 18:31:37 | 38.06 | 36.86 | 943 | 0.24 | 0.37 | 51.5 |
| 4/18/2015 18:31:37 | 38.39 | 37.19 | 957 | 0.24 | 0.37 | 52.4 |
| 4/18/2015 18:31:38 | 38.71 | 37.51 | 949 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:38 | 39.04 | 37.84 | 946 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 18:31:38 | 39.37 | 38.17 | 946 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 18:31:39 | 39.70 | 38.50 | 946 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 18:31:39 | 40.03 | 38.83 | 969 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 18:31:40 | 40.35 | 39.15 | 969 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 18:31:40 | 40.68 | 39.48 | 966 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 18:31:40 | 41.01 | 39.81 | 957 | 0.24 | 0.37 | 52.3 |
| 4/18/2015 18:31:41 | 41.34 | 40.14 | 965 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 18:31:41 | 41.67 | 40.47 | 965 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 18:31:41 | 41.99 | 40.79 | 950 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:42 | 42.32 | 41.12 | 950 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:42 | 42.65 | 41.45 | 950 | 0.24 | 0.37 | 51.9 |
| 4/18/2015 18:31:42 | 42.98 | 41.78 | 953 | 0.24 | 0.37 | 52.1 |
| 4/18/2015 18:31:43 | 43.31 | 42.11 | 956 | 0.24 | 0.37 | 52.3 |
| 4/18/2015 18:31:43 | 43.64 | 42.44 | 965 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 18:31:44 | 43.96 | 42.76 | 965 | 0.24 | 0.37 | 52.8 |
| 4/18/2015 18:31:44 | 44.29 | 43.09 | 986 | 0.24 | 0.37 | 53.9 |
| 4/18/2015 18:31:44 | 44.62 | 43.42 | 983 | 0.24 | 0.37 | 53.7 |
| 4/18/2015 18:31:45 | 44.95 | 43.75 | 983 | 0.24 | 0.37 | 53.7 |
| 4/18/2015 18:31:45 | 45.28 | 44.08 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 18:31:45 | 45.60 | 44.40 | 983 | 0.24 | 0.37 | 53.7 |
| 4/18/2015 18:31:46 | 45.93 | 44.73 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 18:31:46 | 46.26 | 45.06 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 18:31:46 | 46.59 | 45.39 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 18:31:47 | 46.92 | 45.72 | 972 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 18:31:47 | 47.24 | 46.04 | 972 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 18:31:47 | 47.57 | 46.37 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 18:31:48 | 47.90 | 46.70 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 18:31:48 | 48.23 | 47.03 | 974 | 0.24 | 0.37 | 53.3 |
| 4/18/2015 18:31:48 | 48.56 | 47.36 | 971 | 0.24 | 0.37 | 53.1 |
| 4/18/2015 18:31:49 | 48.88 | 47.68 | 937 | 0.24 | 0.37 | 51.2 |
| 4/18/2015 18:31:56 | 49.21 | 48.01 | 57 | 0.24 | 0.37 | 3.1 |
| 4/18/2015 18:31:56 | 49.54 | 48.34 | 57 | 0.24 | 0.37 | 3.1 |
| 4/18/2015 18:31:56 | 49.87 | 48.67 | 248 | 0.24 | 0.37 | 13.6 |
| 4/18/2015 18:31:57 | 50.20 | 49.00 | 434 | 0.24 | 0.37 | 23.7 |
| 4/18/2015 18:31:57 | 50.53 | 49.33 | 617 | 0.24 | 0.37 | 33.7 |
| 4/18/2015 18:31:58 | 50.85 | 49.65 | 617 | 0.24 | 0.37 | 33.7 |
| 4/18/2015 18:31:58 | 51.18 | 49.98 | 808 | 0.24 | 0.37 | 44.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 18:31:58 | 51.51 | 50.31 | 934 | 0.24 | 0.37 | 51.1 |
| 4/18/2015 | 18:31:59 | 51.84 | 50.64 | 931 | 0.24 | 0.37 | 50.9 |
| 4/18/2015 | 18:31:59 | 52.17 | 50.97 | 931 | 0.24 | 0.37 | 50.9 |
| 4/18/2015 | 18:31:59 | 52.49 | 51.29 | 928 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 | 18:32:00 | 52.82 | 51.62 | 930 | 0.24 | 0.37 | 50.9 |
| 4/18/2015 | 18:32:00 | 53.15 | 51.95 | 928 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 | 18:32:01 | 53.48 | 52.28 | 928 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 | 18:32:01 | 53.81 | 52.61 | 925 | 0.24 | 0.37 | 50.6 |
| 4/18/2015 | 18:32:01 | 54.13 | 52.93 | 925 | 0.24 | 0.37 | 50.6 |
| 4/18/2015 | 18:32:02 | 54.46 | 53.26 | 924 | 0.24 | 0.37 | 50.5 |
| 4/18/2015 | 18:32:03 | 54.79 | 53.59 | 924 | 0.24 | 0.37 | 50.5 |
| 4/18/2015 | 18:32:03 | 55.12 | 53.92 | 916 | 0.24 | 0.37 | 50.1 |
| 4/18/2015 | 18:32:03 | 55.45 | 54.25 | 910 | 0.24 | 0.37 | 49.8 |
| 4/18/2015 | 18:32:04 | 55.77 | 54.57 | 908 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 | 18:32:04 | 56.10 | 54.90 | 908 | 0.24 | 0.37 | 49.6 |
| 4/18/2015 | 18:32:04 | 56.43 | 55.23 | 898 | 0.24 | 0.37 | 49.1 |
| 4/18/2015 | 18:32:05 | 56.76 | 55.56 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 | 18:32:05 | 57.09 | 55.89 | 887 | 0.24 | 0.37 | 48.5 |
| 4/18/2015 | 18:32:05 | 57.14 | 55.94 | 887 | 0.24 | 0.37 | 48.5 |

## D81 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 18:29:06

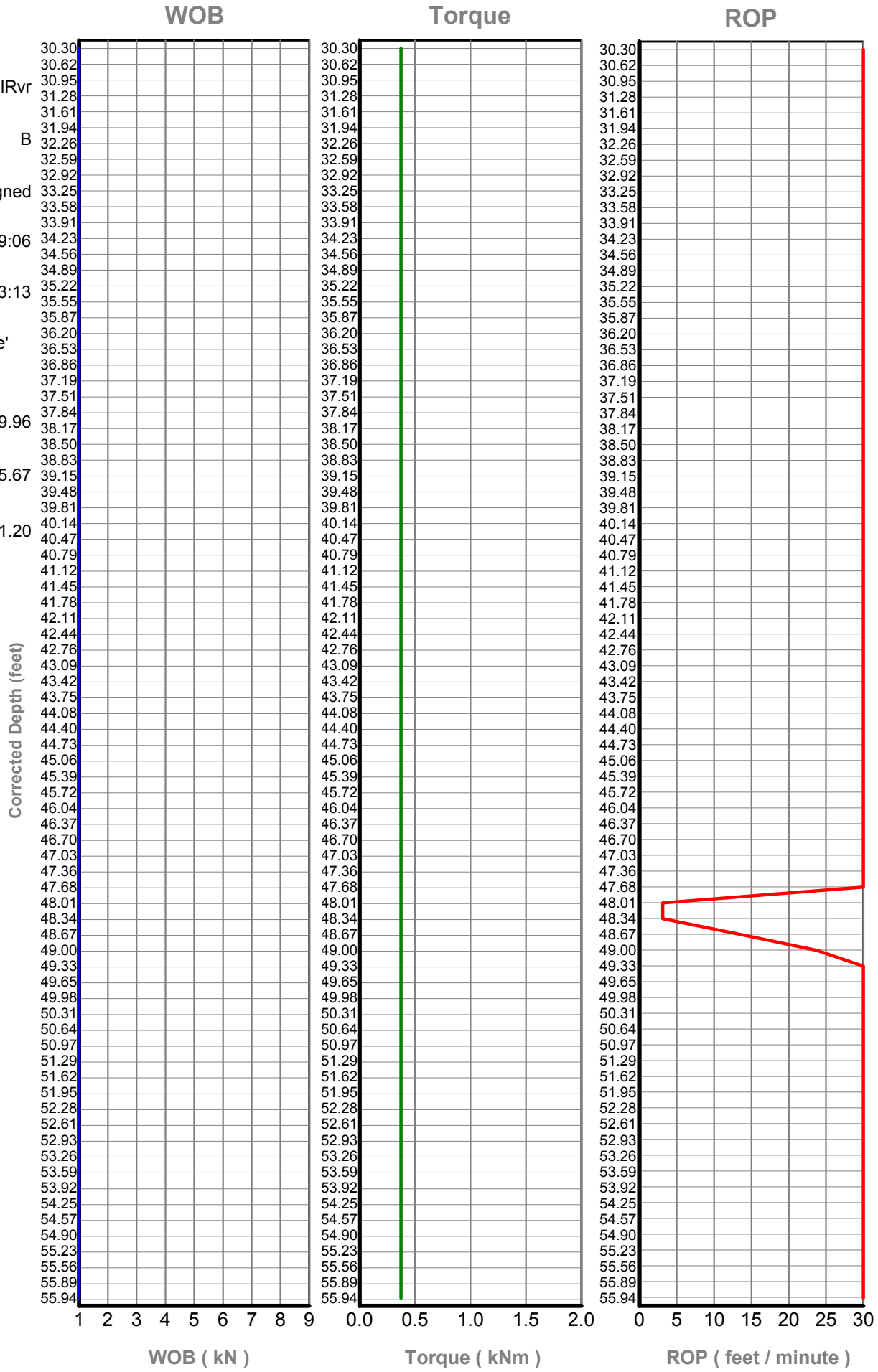
**End Date:**
4/18/2015 18:33:13

**Operator Note:**
'1.2 1.8 b Auto Complete'

**Northing:**
369,539.96

**Easting:**
255,495.67

**Tide (feet):**
1.20



## Hole: D82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 18:33:35 | 31.50 | 30.30 | 839 | 1.52 | 0.26 | 45.9 |
| 4/18/2015 18:33:36 | 31.82 | 30.62 | 853 | 1.54 | 0.25 | 46.6 |
| 4/18/2015 18:33:37 | 32.15 | 30.95 | 839 | 1.55 | 0.25 | 45.9 |
| 4/18/2015 18:33:37 | 32.48 | 31.28 | 846 | 1.54 | 0.25 | 46.3 |
| 4/18/2015 18:33:38 | 32.81 | 31.61 | 846 | 1.54 | 0.25 | 46.3 |
| 4/18/2015 18:33:38 | 33.14 | 31.94 | 846 | 1.55 | 0.25 | 46.3 |
| 4/18/2015 18:33:38 | 33.46 | 32.26 | 838 | 1.55 | 0.25 | 45.8 |
| 4/18/2015 18:33:39 | 33.79 | 32.59 | 838 | 1.55 | 0.25 | 45.8 |
| 4/18/2015 18:33:39 | 34.12 | 32.92 | 838 | 1.55 | 0.25 | 45.8 |
| 4/18/2015 18:33:40 | 34.45 | 33.25 | 838 | 1.55 | 0.25 | 45.8 |
| 4/18/2015 18:33:40 | 34.78 | 33.58 | 844 | 1.54 | 0.26 | 46.2 |
| 4/18/2015 18:33:40 | 35.11 | 33.91 | 838 | 1.60 | 0.25 | 45.8 |
| 4/18/2015 18:33:41 | 35.43 | 34.23 | 839 | 1.82 | 0.26 | 45.9 |
| 4/18/2015 18:33:41 | 35.76 | 34.56 | 840 | 1.57 | 0.25 | 45.9 |
| 4/18/2015 18:33:42 | 36.09 | 34.89 | 840 | 1.57 | 0.25 | 45.9 |
| 4/18/2015 18:33:42 | 36.42 | 35.22 | 825 | 1.60 | 0.25 | 45.1 |
| 4/18/2015 18:33:42 | 36.75 | 35.55 | 825 | 1.55 | 0.26 | 45.1 |
| 4/18/2015 18:33:43 | 37.07 | 35.87 | 838 | 1.66 | 0.25 | 45.8 |
| 4/18/2015 18:33:43 | 37.40 | 36.20 | 842 | 1.55 | 0.26 | 46.0 |
| 4/18/2015 18:33:44 | 37.73 | 36.53 | 834 | 1.56 | 0.26 | 45.6 |
| 4/18/2015 18:33:44 | 38.06 | 36.86 | 834 | 1.56 | 0.26 | 45.6 |
| 4/18/2015 18:33:44 | 38.39 | 37.19 | 834 | 1.61 | 0.26 | 45.6 |
| 4/18/2015 18:33:45 | 38.71 | 37.51 | 831 | 1.79 | 0.26 | 45.4 |
| 4/18/2015 18:33:45 | 39.04 | 37.84 | 855 | 1.64 | 0.25 | 46.7 |
| 4/18/2015 18:33:46 | 39.37 | 38.17 | 844 | 1.46 | 0.25 | 46.2 |
| 4/18/2015 18:33:46 | 39.70 | 38.50 | 844 | 1.46 | 0.25 | 46.2 |
| 4/18/2015 18:33:47 | 40.03 | 38.83 | 846 | 1.51 | 0.26 | 46.3 |
| 4/18/2015 18:33:47 | 40.35 | 39.15 | 845 | 1.56 | 0.25 | 46.2 |
| 4/18/2015 18:33:48 | 40.68 | 39.48 | 852 | 1.55 | 0.25 | 46.6 |
| 4/18/2015 18:33:48 | 41.01 | 39.81 | 845 | 1.55 | 0.25 | 46.2 |
| 4/18/2015 18:33:49 | 41.34 | 40.14 | 845 | 1.55 | 0.25 | 46.2 |
| 4/18/2015 18:33:49 | 41.67 | 40.47 | 827 | 1.55 | 0.25 | 45.2 |
| 4/18/2015 18:33:49 | 41.99 | 40.79 | 827 | 1.55 | 0.25 | 45.2 |
| 4/18/2015 18:33:50 | 42.32 | 41.12 | 816 | 1.55 | 0.26 | 44.6 |
| 4/18/2015 18:33:50 | 42.65 | 41.45 | 827 | 1.55 | 0.26 | 45.2 |
| 4/18/2015 18:33:51 | 42.98 | 41.78 | 827 | 1.56 | 0.26 | 45.2 |
| 4/18/2015 18:33:51 | 43.31 | 42.11 | 827 | 1.56 | 0.26 | 45.2 |
| 4/18/2015 18:33:51 | 43.64 | 42.44 | 821 | 1.56 | 0.25 | 44.9 |
| 4/18/2015 18:33:52 | 43.96 | 42.76 | 818 | 1.54 | 0.25 | 44.7 |
| 4/18/2015 18:33:52 | 44.29 | 43.09 | 822 | 1.55 | 0.25 | 44.9 |
| 4/18/2015 18:33:53 | 44.62 | 43.42 | 807 | 1.55 | 0.26 | 44.1 |
| 4/18/2015 18:33:53 | 44.95 | 43.75 | 803 | 1.56 | 0.25 | 43.9 |
| 4/18/2015 18:33:54 | 45.28 | 44.08 | 803 | 1.56 | 0.25 | 43.9 |
| 4/18/2015 18:33:54 | 45.60 | 44.40 | 803 | 1.56 | 0.25 | 43.9 |
| 4/18/2015 18:33:54 | 45.93 | 44.73 | 802 | 1.55 | 0.25 | 43.9 |
| 4/18/2015 18:33:55 | 46.26 | 45.06 | 782 | 1.55 | 0.25 | 42.7 |
| 4/18/2015 18:33:55 | 46.59 | 45.39 | 782 | 1.56 | 0.25 | 42.7 |
| 4/18/2015 18:33:56 | 46.92 | 45.72 | 791 | 1.56 | 0.25 | 43.3 |
| 4/18/2015 18:33:56 | 47.24 | 46.04 | 790 | 1.58 | 0.25 | 43.2 |
| 4/18/2015 18:33:57 | 47.57 | 46.37 | 790 | 1.56 | 0.26 | 43.2 |
| 4/18/2015 18:33:58 | 47.90 | 46.70 | 785 | 1.84 | 0.25 | 42.9 |
| 4/18/2015 18:33:58 | 48.23 | 47.03 | 785 | 1.84 | 0.25 | 42.9 |
| 4/18/2015 18:33:58 | 48.56 | 47.36 | 778 | 1.51 | 0.25 | 42.6 |
| 4/18/2015 18:33:59 | 48.88 | 47.68 | 780 | 1.58 | 0.26 | 42.6 |
| 4/18/2015 18:33:59 | 49.21 | 48.01 | 759 | 1.57 | 0.25 | 41.5 |
| 4/18/2015 18:34:00 | 49.54 | 48.34 | 760 | 1.59 | 0.25 | 41.6 |
| 4/18/2015 18:34:00 | 49.87 | 48.67 | 743 | 1.59 | 0.25 | 40.6 |
| 4/18/2015 18:34:01 | 50.20 | 49.00 | 725 | 1.59 | 0.25 | 39.7 |
| 4/18/2015 18:34:01 | 50.53 | 49.33 | 717 | 1.61 | 0.25 | 39.2 |
| 4/18/2015 18:34:02 | 50.85 | 49.65 | 700 | 1.61 | 0.27 | 38.3 |
| 4/18/2015 18:34:02 | 51.18 | 49.98 | 665 | 1.62 | 0.25 | 36.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 18:34:03 | 51.51 | 50.31 | 665 | 1.61 | 0.25 | 36.4 |
| 4/18/2015 | 18:34:04 | 51.84 | 50.64 | 640 | 1.76 | 0.25 | 35.0 |
| 4/18/2015 | 18:34:42 | 52.17 | 50.97 | 32 | 1.76 | 1.19 | 1.7 |
| 4/18/2015 | 18:34:47 | 52.49 | 51.29 | 58 | 1.81 | 1.20 | 3.2 |
| 4/18/2015 | 18:34:54 | 52.82 | 51.62 | 55 | 1.81 | 1.18 | 3.0 |
| 4/18/2015 | 18:35:03 | 53.15 | 51.95 | 43 | 1.81 | 1.19 | 2.3 |
| 4/18/2015 | 18:35:12 | 53.48 | 52.28 | 44 | 1.85 | 1.28 | 2.4 |
| 4/18/2015 | 18:35:18 | 53.81 | 52.61 | 45 | 1.85 | 1.09 | 2.5 |
| 4/18/2015 | 18:35:26 | 54.13 | 52.93 | 46 | 1.83 | 1.12 | 2.5 |
| 4/18/2015 | 18:35:34 | 54.46 | 53.26 | 52 | 1.83 | 1.13 | 2.8 |
| 4/18/2015 | 18:35:42 | 54.79 | 53.59 | 38 | 1.82 | 1.06 | 2.1 |
| 4/18/2015 | 18:35:49 | 55.06 | 53.86 | 40 | 1.79 | 1.17 | 2.2 |

## D82 - Summary

**Pattern Number:**
AreaD_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 18:32:47

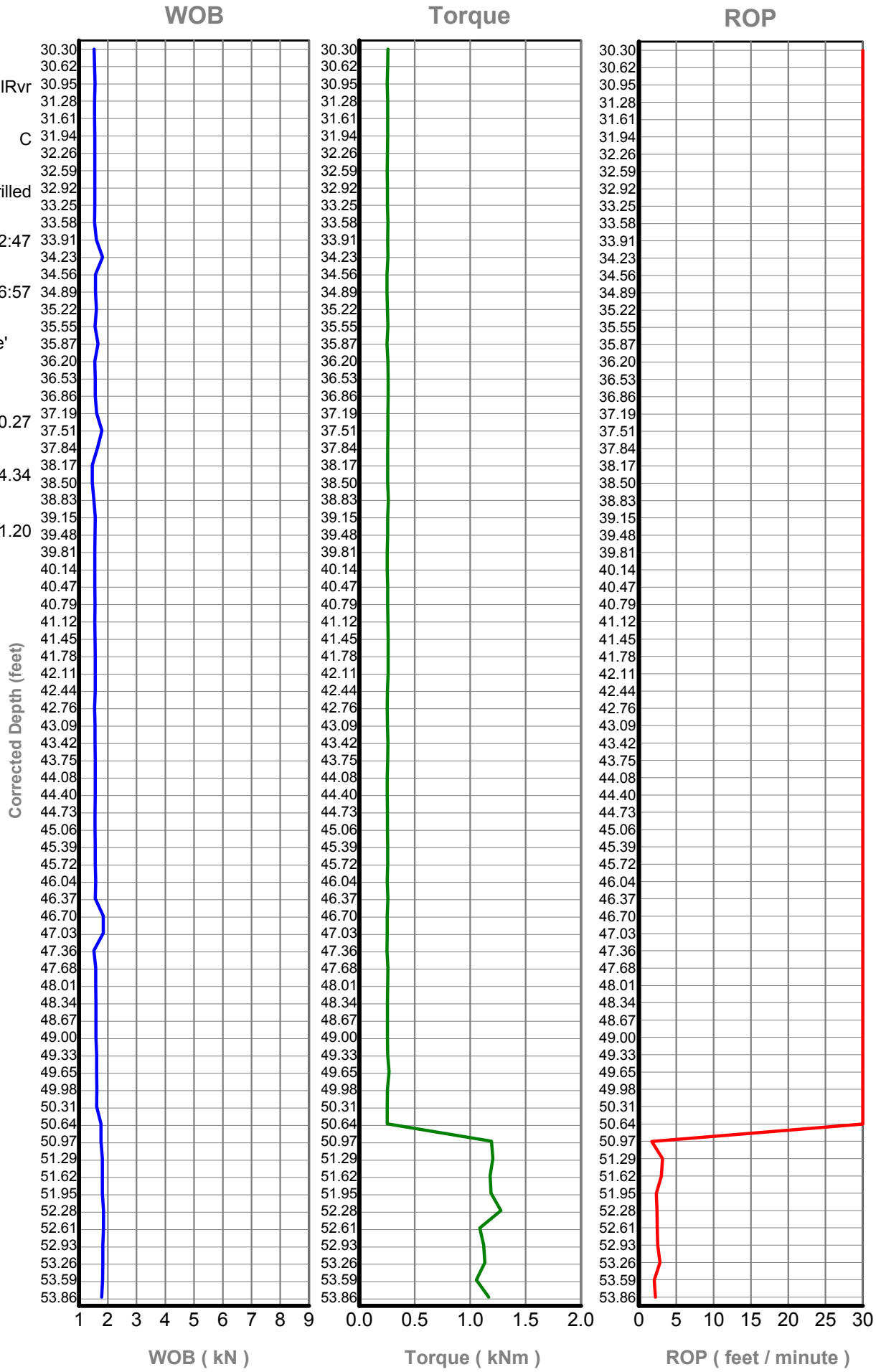
**End Date:**
4/18/2015 18:36:57

**Operator Note:**
'1.2 1.8 c Auto Complete'

**Northing:**
369,570.27

**Easting:**
255,564.34

**Tide (feet):**
1.20



## Hole: D83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:40:45 | 32.15 | 30.25 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:40:45 | 32.48 | 30.58 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:40:46 | 32.81 | 30.91 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:40:46 | 33.14 | 31.24 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:40:46 | 33.46 | 31.56 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:40:47 | 33.79 | 31.89 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:40:47 | 34.12 | 32.22 | 1,063 | 0.24 | 0.37 | 58.1 |
| 4/18/2015 17:40:47 | 34.45 | 32.55 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 17:40:48 | 34.78 | 32.88 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 17:40:48 | 35.11 | 33.21 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 17:40:48 | 35.43 | 33.53 | 1,066 | 0.24 | 0.37 | 58.3 |
| 4/18/2015 17:40:48 | 35.76 | 33.86 | 1,076 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:40:49 | 36.09 | 34.19 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:40:49 | 36.42 | 34.52 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:40:49 | 36.75 | 34.85 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:40:50 | 37.07 | 35.17 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:40:50 | 37.40 | 35.50 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:40:50 | 37.73 | 35.83 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:40:51 | 38.06 | 36.16 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:40:51 | 38.39 | 36.49 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 17:40:51 | 38.71 | 36.81 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 17:40:52 | 39.04 | 37.14 | 1,093 | 0.24 | 0.37 | 59.8 |
| 4/18/2015 17:40:52 | 39.37 | 37.47 | 1,102 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 17:40:52 | 39.70 | 37.80 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 17:40:53 | 40.03 | 38.13 | 1,084 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 17:40:53 | 40.35 | 38.45 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:40:54 | 40.68 | 38.78 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:40:54 | 41.01 | 39.11 | 1,071 | 0.24 | 0.37 | 58.6 |
| 4/18/2015 17:40:54 | 41.34 | 39.44 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 17:40:54 | 41.67 | 39.77 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 17:40:55 | 41.99 | 40.09 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 17:40:55 | 42.32 | 40.42 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 17:40:56 | 42.65 | 40.75 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 17:40:56 | 42.98 | 41.08 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:40:56 | 43.31 | 41.41 | 1,118 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:40:56 | 43.64 | 41.74 | 1,100 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:40:57 | 43.96 | 42.06 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:40:57 | 44.29 | 42.39 | 1,106 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:40:57 | 44.62 | 42.72 | 1,112 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:40:58 | 44.95 | 43.05 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:40:58 | 45.28 | 43.38 | 1,109 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:40:58 | 45.60 | 43.70 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:40:59 | 45.93 | 44.03 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:40:59 | 46.26 | 44.36 | 1,122 | 0.24 | 0.37 | 61.3 |
| 4/18/2015 17:40:59 | 46.59 | 44.69 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:41:00 | 46.92 | 45.02 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:41:00 | 47.24 | 45.34 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:41:00 | 47.57 | 45.67 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:41:00 | 47.90 | 46.00 | 1,110 | 0.24 | 0.37 | 60.7 |
| 4/18/2015 17:41:01 | 48.23 | 46.33 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:41:01 | 48.56 | 46.66 | 1,103 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:41:01 | 48.88 | 46.98 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:41:02 | 49.21 | 47.31 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 17:41:02 | 49.54 | 47.64 | 1,087 | 0.24 | 0.37 | 59.4 |
| 4/18/2015 17:41:02 | 49.87 | 47.97 | 1,107 | 0.24 | 0.37 | 60.5 |
| 4/18/2015 17:41:03 | 50.20 | 48.30 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:41:03 | 50.53 | 48.63 | 1,082 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:41:12 | 50.85 | 48.95 | 62 | 0.24 | 0.37 | 3.4 |
| 4/18/2015 17:41:12 | 51.18 | 49.28 | 136 | 0.24 | 0.37 | 7.4 |
| 4/18/2015 17:41:14 | 51.51 | 49.61 | 356 | 0.24 | 0.37 | 19.5 |
| 4/18/2015 17:41:15 | 51.84 | 49.94 | 356 | 0.24 | 0.37 | 19.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:41:14 | 52.17 | 50.27 | 488 | 0.24 | 0.37 | 26.7 |
| 4/18/2015 | 17:41:15 | 52.49 | 50.59 | 634 | 0.24 | 0.37 | 34.7 |
| 4/18/2015 | 17:41:15 | 52.82 | 50.92 | 634 | 0.24 | 0.37 | 34.7 |
| 4/18/2015 | 17:41:15 | 53.15 | 51.25 | 737 | 0.24 | 0.37 | 40.3 |
| 4/18/2015 | 17:41:16 | 53.48 | 51.58 | 808 | 0.24 | 0.37 | 44.2 |
| 4/18/2015 | 17:41:16 | 53.81 | 51.91 | 808 | 0.24 | 0.37 | 44.2 |
| 4/18/2015 | 17:41:16 | 54.13 | 52.23 | 1,014 | 0.24 | 0.37 | 55.5 |
| 4/18/2015 | 17:41:17 | 54.46 | 52.56 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 | 17:41:17 | 54.79 | 52.89 | 1,044 | 0.24 | 0.37 | 57.1 |
| 4/18/2015 | 17:41:18 | 55.12 | 53.22 | 1,024 | 0.24 | 0.37 | 56.0 |
| 4/18/2015 | 17:41:18 | 55.45 | 53.55 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 | 17:41:19 | 55.77 | 53.87 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 | 17:41:19 | 56.10 | 54.20 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 | 17:41:19 | 56.43 | 54.53 | 991 | 0.24 | 0.37 | 54.2 |
| 4/18/2015 | 17:41:20 | 56.76 | 54.86 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 | 17:41:20 | 57.09 | 55.19 | 989 | 0.24 | 0.37 | 54.1 |
| 4/18/2015 | 17:41:20 | 57.41 | 55.51 | 980 | 0.24 | 0.37 | 53.6 |
| 4/18/2015 | 17:41:20 | 57.63 | 55.73 | 980 | 0.24 | 0.37 | 53.6 |

## D83 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:39:10

**End Date:**
4/18/2015 17:42:49

**Operator Note:**
'1.9 2.2 b Auto Complete'

**Northing:**
369,615.16

**Easting:**
255,653.21

**Tide (feet):**
1.90



## Hole: D84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:44:48 | 32.15 | 30.25 | 1,111 | 0.24 | 0.37 | 60.8 |
| 4/18/2015 17:44:48 | 32.48 | 30.58 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 17:44:48 | 32.81 | 30.91 | 1,101 | 0.24 | 0.37 | 60.2 |
| 4/18/2015 17:44:48 | 33.14 | 31.24 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:44:49 | 33.46 | 31.56 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:49 | 33.79 | 31.89 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:49 | 34.12 | 32.22 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:50 | 34.45 | 32.55 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:44:50 | 34.78 | 32.88 | 1,081 | 0.24 | 0.37 | 59.1 |
| 4/18/2015 17:44:50 | 35.11 | 33.21 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:44:51 | 35.43 | 33.53 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 17:44:51 | 35.76 | 33.86 | 1,078 | 0.24 | 0.37 | 59.0 |
| 4/18/2015 17:44:51 | 36.09 | 34.19 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 17:44:52 | 36.42 | 34.52 | 1,085 | 0.24 | 0.37 | 59.3 |
| 4/18/2015 17:44:52 | 36.75 | 34.85 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:44:52 | 37.07 | 35.17 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:44:53 | 37.40 | 35.50 | 1,087 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:44:53 | 37.73 | 35.83 | 1,088 | 0.24 | 0.37 | 59.5 |
| 4/18/2015 17:44:53 | 38.06 | 36.16 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:44:54 | 38.39 | 36.49 | 1,099 | 0.24 | 0.37 | 60.1 |
| 4/18/2015 17:44:54 | 38.71 | 36.81 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:44:54 | 39.04 | 37.14 | 1,105 | 0.24 | 0.37 | 60.4 |
| 4/18/2015 17:44:54 | 39.37 | 37.47 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 17:44:55 | 39.70 | 37.80 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:55 | 40.03 | 38.13 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:55 | 40.35 | 38.45 | 1,090 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:56 | 40.68 | 38.78 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 17:44:56 | 41.01 | 39.11 | 1,091 | 0.24 | 0.37 | 59.7 |
| 4/18/2015 17:44:56 | 41.34 | 39.44 | 1,075 | 0.24 | 0.37 | 58.8 |
| 4/18/2015 17:44:57 | 41.67 | 39.77 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:44:57 | 41.99 | 40.09 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:44:57 | 42.32 | 40.42 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:58 | 42.65 | 40.75 | 1,091 | 0.24 | 0.37 | 59.6 |
| 4/18/2015 17:44:58 | 42.98 | 41.08 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 17:44:59 | 43.31 | 41.41 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 17:44:59 | 43.64 | 41.74 | 1,096 | 0.24 | 0.37 | 59.9 |
| 4/18/2015 17:44:59 | 43.96 | 42.06 | 1,116 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:45:00 | 44.29 | 42.39 | 1,116 | 0.24 | 0.37 | 61.1 |
| 4/18/2015 17:45:00 | 44.62 | 42.72 | 1,116 | 0.24 | 0.37 | 61.0 |
| 4/18/2015 17:45:00 | 44.95 | 43.05 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 17:45:01 | 45.28 | 43.38 | 1,123 | 0.24 | 0.37 | 61.4 |
| 4/18/2015 17:45:01 | 45.60 | 43.70 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 17:45:01 | 45.93 | 44.03 | 1,128 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:02 | 46.26 | 44.36 | 1,128 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:02 | 46.59 | 44.69 | 1,124 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 17:45:02 | 46.92 | 45.02 | 1,124 | 0.24 | 0.37 | 61.5 |
| 4/18/2015 17:45:02 | 47.24 | 45.34 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:45:03 | 47.57 | 45.67 | 1,127 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:03 | 47.90 | 46.00 | 1,127 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:03 | 48.23 | 46.33 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:45:04 | 48.56 | 46.66 | 1,134 | 0.24 | 0.37 | 62.0 |
| 4/18/2015 17:45:04 | 48.88 | 46.98 | 1,137 | 0.24 | 0.37 | 62.2 |
| 4/18/2015 17:45:04 | 49.21 | 47.31 | 1,129 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:05 | 49.54 | 47.64 | 1,129 | 0.24 | 0.37 | 61.7 |
| 4/18/2015 17:45:05 | 49.87 | 47.97 | 1,119 | 0.24 | 0.37 | 61.2 |
| 4/18/2015 17:45:05 | 50.20 | 48.30 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:45:06 | 50.53 | 48.63 | 1,102 | 0.24 | 0.37 | 60.3 |
| 4/18/2015 17:45:06 | 50.85 | 48.95 | 1,082 | 0.24 | 0.37 | 59.2 |
| 4/18/2015 17:45:06 | 51.18 | 49.28 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/18/2015 17:45:07 | 51.51 | 49.61 | 1,047 | 0.24 | 0.37 | 57.2 |
| 4/18/2015 17:45:07 | 51.84 | 49.94 | 1,024 | 0.24 | 0.37 | 56.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:45:07 | 52.17 | 50.27 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 | 17:45:08 | 52.49 | 50.59 | 997 | 0.24 | 0.37 | 54.5 |
| 4/18/2015 | 17:45:08 | 52.82 | 50.92 | 998 | 0.24 | 0.37 | 54.6 |
| 4/18/2015 | 17:45:08 | 53.15 | 51.25 | 977 | 0.24 | 0.37 | 53.4 |
| 4/18/2015 | 17:45:09 | 53.48 | 51.58 | 968 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 | 17:45:10 | 53.81 | 51.91 | 968 | 0.24 | 0.37 | 53.0 |
| 4/18/2015 | 17:45:09 | 54.13 | 52.23 | 963 | 0.24 | 0.37 | 52.6 |
| 4/18/2015 | 17:45:10 | 54.46 | 52.56 | 963 | 0.24 | 0.37 | 52.6 |
| 4/18/2015 | 17:45:11 | 54.79 | 52.89 | 945 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 | 17:45:11 | 55.12 | 53.22 | 945 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 | 17:45:11 | 55.45 | 53.55 | 945 | 0.24 | 0.37 | 51.7 |
| 4/18/2015 | 17:45:12 | 55.77 | 53.87 | 942 | 0.24 | 0.37 | 51.5 |
| 4/18/2015 | 17:45:12 | 56.10 | 54.20 | 942 | 0.24 | 0.37 | 51.5 |
| 4/18/2015 | 17:45:12 | 56.43 | 54.53 | 939 | 0.24 | 0.37 | 51.3 |
| 4/18/2015 | 17:45:13 | 56.76 | 54.86 | 933 | 0.24 | 0.37 | 51.0 |
| 4/18/2015 | 17:45:13 | 57.09 | 55.19 | 927 | 0.24 | 0.37 | 50.7 |
| 4/18/2015 | 17:45:13 | 57.41 | 55.51 | 927 | 0.24 | 0.37 | 50.7 |

## D84 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:43:42

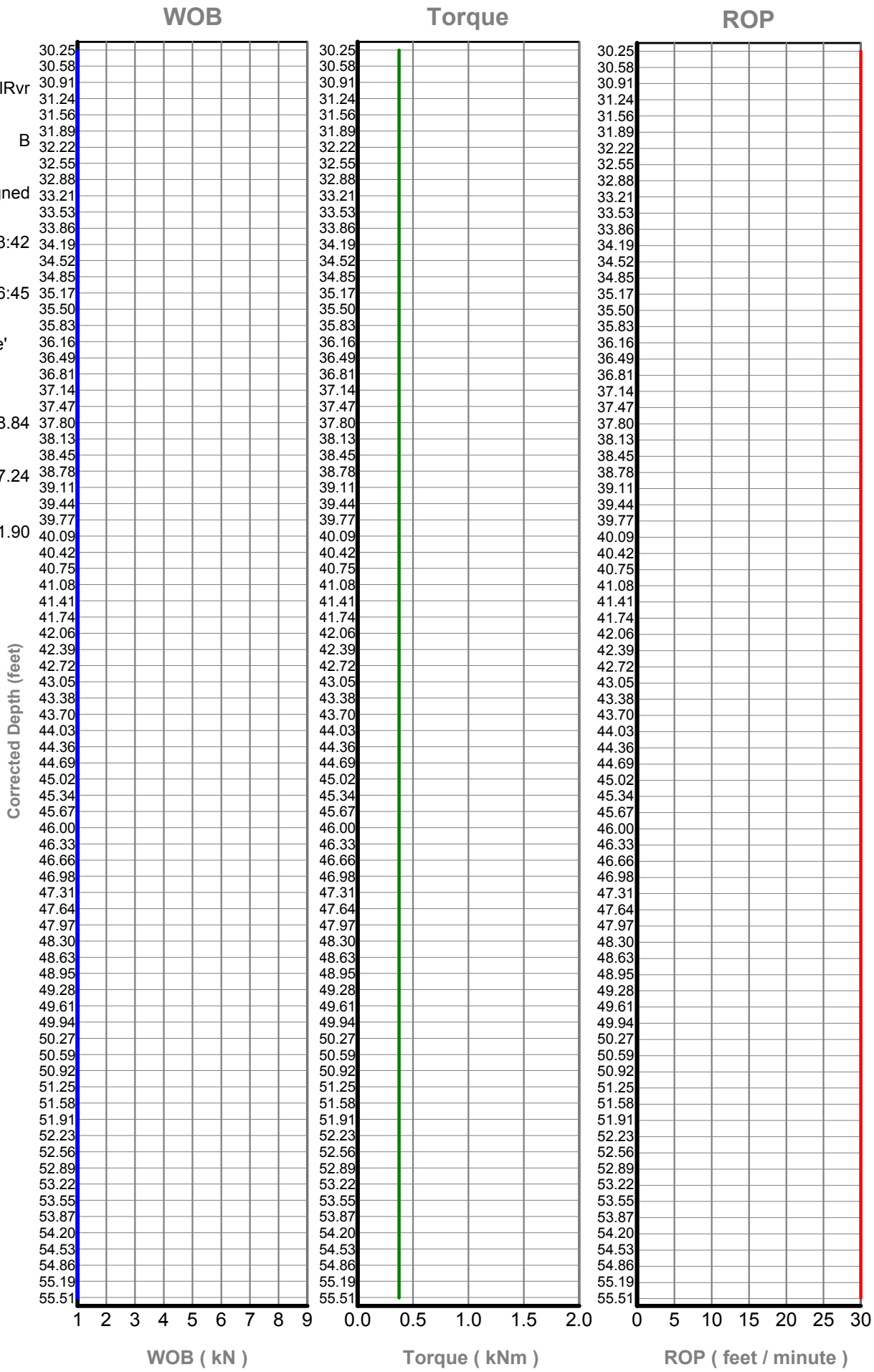
**End Date:**
4/18/2015 17:46:45

**Operator Note:**
'1.9 2.2 b Auto Complete'

**Northing:**
369,638.84

**Easting:**
255,707.24

**Tide (feet):**
1.90



## Hole: D85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 17:42:04 | 32.15 | 30.25 | 795 | 1.63 | 0.25 | 43.5 |
| 4/18/2015 17:42:04 | 32.48 | 30.58 | 795 | 1.63 | 0.25 | 43.5 |
| 4/18/2015 17:42:04 | 32.81 | 30.91 | 795 | 1.64 | 0.25 | 43.5 |
| 4/18/2015 17:42:05 | 33.14 | 31.24 | 793 | 1.64 | 0.25 | 43.4 |
| 4/18/2015 17:42:05 | 33.46 | 31.56 | 793 | 1.64 | 0.25 | 43.4 |
| 4/18/2015 17:42:06 | 33.79 | 31.89 | 814 | 1.62 | 0.25 | 44.5 |
| 4/18/2015 17:42:06 | 34.12 | 32.22 | 811 | 1.53 | 0.26 | 44.4 |
| 4/18/2015 17:42:07 | 34.45 | 32.55 | 824 | 1.57 | 0.26 | 45.0 |
| 4/18/2015 17:42:07 | 34.78 | 32.88 | 824 | 1.57 | 0.26 | 45.0 |
| 4/18/2015 17:42:07 | 35.11 | 33.21 | 824 | 1.57 | 0.26 | 45.0 |
| 4/18/2015 17:42:08 | 35.43 | 33.53 | 821 | 1.58 | 0.26 | 44.9 |
| 4/18/2015 17:42:08 | 35.76 | 33.86 | 795 | 1.57 | 0.26 | 43.5 |
| 4/18/2015 17:42:09 | 36.09 | 34.19 | 795 | 1.57 | 0.26 | 43.5 |
| 4/18/2015 17:42:09 | 36.42 | 34.52 | 794 | 1.56 | 0.26 | 43.4 |
| 4/18/2015 17:42:10 | 36.75 | 34.85 | 784 | 1.55 | 0.25 | 42.9 |
| 4/18/2015 17:42:10 | 37.07 | 35.17 | 784 | 1.55 | 0.25 | 42.9 |
| 4/18/2015 17:42:10 | 37.40 | 35.50 | 788 | 1.57 | 0.26 | 43.1 |
| 4/18/2015 17:42:11 | 37.73 | 35.83 | 786 | 1.56 | 0.26 | 43.0 |
| 4/18/2015 17:42:11 | 38.06 | 36.16 | 783 | 1.55 | 0.26 | 42.8 |
| 4/18/2015 17:42:12 | 38.39 | 36.49 | 776 | 1.56 | 0.26 | 42.4 |
| 4/18/2015 17:42:12 | 38.71 | 36.81 | 776 | 1.56 | 0.26 | 42.4 |
| 4/18/2015 17:42:13 | 39.04 | 37.14 | 786 | 1.55 | 0.26 | 43.0 |
| 4/18/2015 17:42:13 | 39.37 | 37.47 | 787 | 1.57 | 0.26 | 43.0 |
| 4/18/2015 17:42:14 | 39.70 | 37.80 | 787 | 1.57 | 0.26 | 43.0 |
| 4/18/2015 17:42:14 | 40.03 | 38.13 | 789 | 1.56 | 0.25 | 43.1 |
| 4/18/2015 17:42:15 | 40.35 | 38.45 | 793 | 1.55 | 0.25 | 43.3 |
| 4/18/2015 17:42:15 | 40.68 | 38.78 | 798 | 1.57 | 0.26 | 43.6 |
| 4/18/2015 17:42:16 | 41.01 | 39.11 | 802 | 1.56 | 0.25 | 43.8 |
| 4/18/2015 17:42:16 | 41.34 | 39.44 | 796 | 1.56 | 0.26 | 43.5 |
| 4/18/2015 17:42:17 | 41.67 | 39.77 | 791 | 1.55 | 0.25 | 43.3 |
| 4/18/2015 17:42:17 | 41.99 | 40.09 | 791 | 1.55 | 0.25 | 43.3 |
| 4/18/2015 17:42:17 | 42.32 | 40.42 | 801 | 1.57 | 0.26 | 43.8 |
| 4/18/2015 17:42:18 | 42.65 | 40.75 | 775 | 1.57 | 0.26 | 42.4 |
| 4/18/2015 17:42:18 | 42.98 | 41.08 | 775 | 1.55 | 0.26 | 42.4 |
| 4/18/2015 17:42:19 | 43.31 | 41.41 | 777 | 1.56 | 0.26 | 42.5 |
| 4/18/2015 17:42:19 | 43.64 | 41.74 | 762 | 1.56 | 0.26 | 41.7 |
| 4/18/2015 17:42:20 | 43.96 | 42.06 | 758 | 1.56 | 0.26 | 41.5 |
| 4/18/2015 17:42:20 | 44.29 | 42.39 | 768 | 1.57 | 0.26 | 42.0 |
| 4/18/2015 17:42:21 | 44.62 | 42.72 | 768 | 1.57 | 0.26 | 42.0 |
| 4/18/2015 17:42:21 | 44.95 | 43.05 | 768 | 1.57 | 0.26 | 42.0 |
| 4/18/2015 17:42:21 | 45.28 | 43.38 | 787 | 1.57 | 0.26 | 43.0 |
| 4/18/2015 17:42:22 | 45.60 | 43.70 | 770 | 1.57 | 0.26 | 42.1 |
| 4/18/2015 17:42:22 | 45.93 | 44.03 | 772 | 1.56 | 0.25 | 42.2 |
| 4/18/2015 17:42:23 | 46.26 | 44.36 | 772 | 1.55 | 0.25 | 42.2 |
| 4/18/2015 17:42:24 | 46.59 | 44.69 | 788 | 1.55 | 0.26 | 43.1 |
| 4/18/2015 17:42:24 | 46.92 | 45.02 | 773 | 1.57 | 0.25 | 42.3 |
| 4/18/2015 17:42:25 | 47.24 | 45.34 | 773 | 1.57 | 0.25 | 42.3 |
| 4/18/2015 17:42:25 | 47.57 | 45.67 | 777 | 1.57 | 0.25 | 42.5 |
| 4/18/2015 17:42:25 | 47.90 | 46.00 | 785 | 1.57 | 0.25 | 42.9 |
| 4/18/2015 17:42:26 | 48.23 | 46.33 | 781 | 1.57 | 0.25 | 42.7 |
| 4/18/2015 17:42:26 | 48.56 | 46.66 | 779 | 1.57 | 0.25 | 42.6 |
| 4/18/2015 17:42:27 | 48.88 | 46.98 | 794 | 1.55 | 0.25 | 43.4 |
| 4/18/2015 17:42:27 | 49.21 | 47.31 | 784 | 1.55 | 0.25 | 42.9 |
| 4/18/2015 17:42:28 | 49.54 | 47.64 | 775 | 1.57 | 0.25 | 42.4 |
| 4/18/2015 17:42:28 | 49.87 | 47.97 | 795 | 1.57 | 0.25 | 43.5 |
| 4/18/2015 17:42:29 | 50.20 | 48.30 | 795 | 1.57 | 0.25 | 43.5 |
| 4/18/2015 17:42:29 | 50.53 | 48.63 | 783 | 1.57 | 0.25 | 42.8 |
| 4/18/2015 17:42:29 | 50.85 | 48.95 | 775 | 1.56 | 0.25 | 42.4 |
| 4/18/2015 17:42:30 | 51.18 | 49.28 | 772 | 1.57 | 0.25 | 42.2 |
| 4/18/2015 17:42:30 | 51.51 | 49.61 | 778 | 1.57 | 0.25 | 42.5 |
| 4/18/2015 17:42:31 | 51.84 | 49.94 | 767 | 1.59 | 0.25 | 41.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 17:42:31 | 52.17 | 50.27 | 763 | 1.59 | 0.25 | 41.7 |
| 4/18/2015 | 17:42:32 | 52.49 | 50.59 | 744 | 1.59 | 0.25 | 40.7 |
| 4/18/2015 | 17:42:32 | 52.82 | 50.92 | 734 | 1.59 | 0.25 | 40.1 |
| 4/18/2015 | 17:42:33 | 53.15 | 51.25 | 711 | 1.59 | 0.25 | 38.9 |
| 4/18/2015 | 17:42:33 | 53.48 | 51.58 | 695 | 1.61 | 0.25 | 38.0 |
| 4/18/2015 | 17:42:34 | 53.81 | 51.91 | 676 | 1.62 | 0.25 | 37.0 |
| 4/18/2015 | 17:42:35 | 54.13 | 52.23 | 665 | 1.62 | 0.25 | 36.4 |
| 4/18/2015 | 17:42:35 | 54.46 | 52.56 | 637 | 1.62 | 0.25 | 34.8 |
| 4/18/2015 | 17:42:36 | 54.79 | 52.89 | 637 | 1.62 | 0.25 | 34.8 |
| 4/18/2015 | 17:42:36 | 55.12 | 53.22 | 630 | 1.62 | 0.25 | 34.4 |
| 4/18/2015 | 17:42:37 | 55.45 | 53.55 | 610 | 1.62 | 0.25 | 33.3 |
| 4/18/2015 | 17:42:38 | 55.77 | 53.87 | 604 | 1.63 | 0.25 | 33.1 |
| 4/18/2015 | 17:42:38 | 56.10 | 54.20 | 606 | 1.63 | 0.25 | 33.1 |
| 4/18/2015 | 17:42:39 | 56.43 | 54.53 | 599 | 1.63 | 0.25 | 32.8 |
| 4/18/2015 | 17:42:39 | 56.76 | 54.86 | 587 | 1.64 | 0.25 | 32.1 |
| 4/18/2015 | 17:42:40 | 57.09 | 55.19 | 569 | 1.64 | 0.26 | 31.1 |
| 4/18/2015 | 17:42:41 | 57.41 | 55.51 | 567 | 1.80 | 0.25 | 31.0 |
| 4/18/2015 | 17:42:42 | 57.51 | 55.61 | 282 | 1.45 | 0.25 | 15.4 |

## D85 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 17:40:18

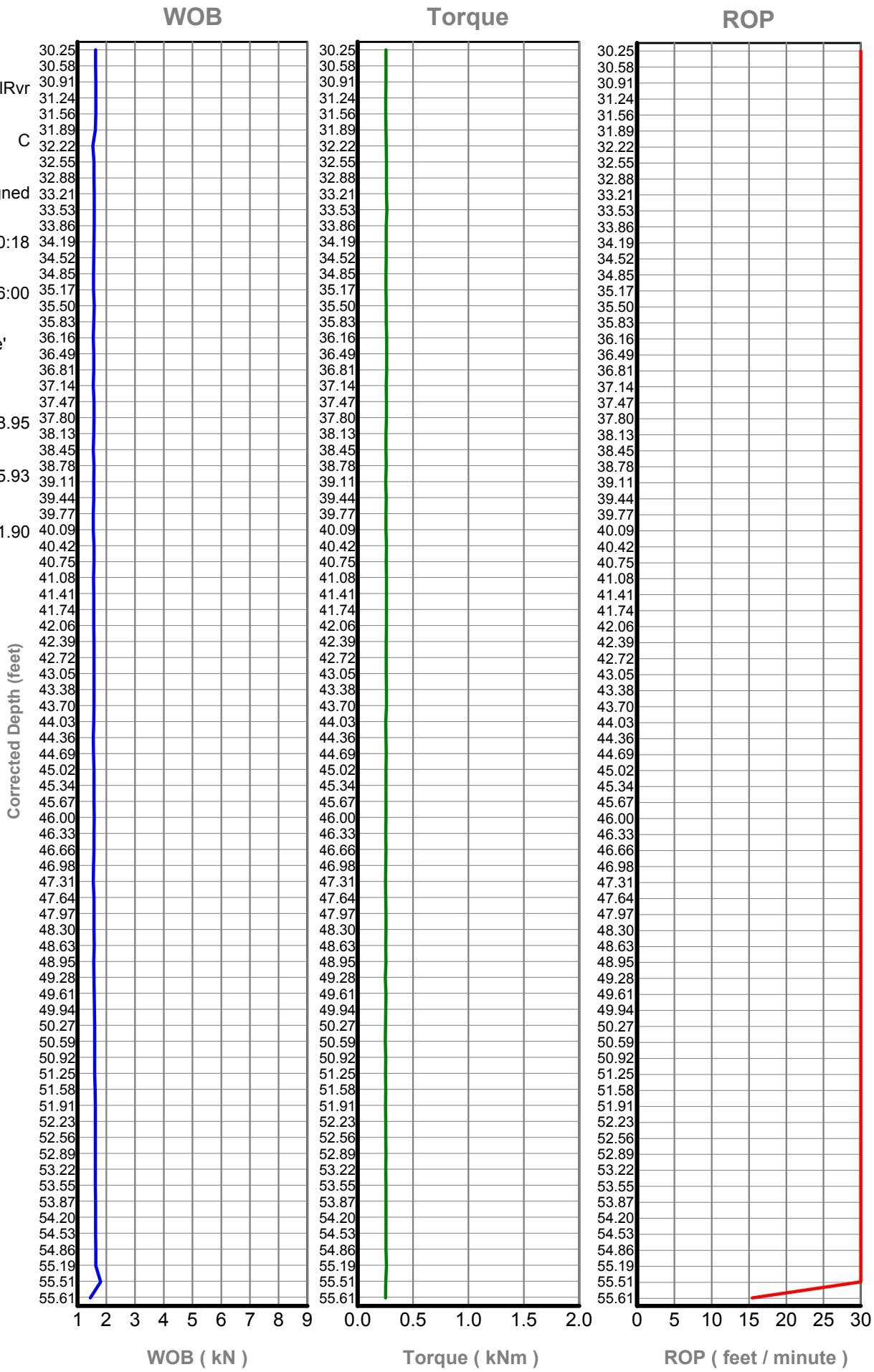
**End Date:**
4/18/2015 17:46:00

**Operator Note:**
'1.9 2.2 c Auto Complete'

**Northing:**
369,668.95

**Easting:**
255,775.93

**Tide (feet):**
1.90



## Hole: D86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 10:03:18 | 32.81 | 30.21 | 1,073 | 0.31 | 0.32 | 58.6 |
| 4/18/2015 10:03:19 | 33.14 | 30.54 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/18/2015 10:03:19 | 33.46 | 30.86 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/18/2015 10:03:19 | 33.79 | 31.19 | 1,070 | 0.31 | 0.33 | 58.5 |
| 4/18/2015 10:03:20 | 34.12 | 31.52 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/18/2015 10:03:20 | 34.45 | 31.85 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/18/2015 10:03:20 | 34.78 | 32.18 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/18/2015 10:03:21 | 35.11 | 32.51 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 10:03:21 | 35.43 | 32.83 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 10:03:21 | 35.76 | 33.16 | 1,058 | 0.26 | 0.32 | 57.8 |
| 4/18/2015 10:03:22 | 36.09 | 33.49 | 1,057 | 0.26 | 0.32 | 57.8 |
| 4/18/2015 10:03:22 | 36.42 | 33.82 | 1,057 | 0.26 | 0.32 | 57.8 |
| 4/18/2015 10:03:22 | 36.75 | 34.15 | 1,067 | 0.27 | 0.32 | 58.3 |
| 4/18/2015 10:03:23 | 37.07 | 34.47 | 1,067 | 0.27 | 0.32 | 58.3 |
| 4/18/2015 10:03:23 | 37.40 | 34.80 | 1,070 | 0.28 | 0.33 | 58.5 |
| 4/18/2015 10:03:23 | 37.73 | 35.13 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 10:03:24 | 38.06 | 35.46 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/18/2015 10:03:24 | 38.39 | 35.79 | 1,070 | 0.26 | 0.32 | 58.5 |
| 4/18/2015 10:03:24 | 38.71 | 36.11 | 1,075 | 0.27 | 0.31 | 58.8 |
| 4/18/2015 10:03:25 | 39.04 | 36.44 | 1,075 | 0.27 | 0.31 | 58.8 |
| 4/18/2015 10:03:25 | 39.37 | 36.77 | 1,078 | 0.27 | 0.32 | 59.0 |
| 4/18/2015 10:03:25 | 39.70 | 37.10 | 1,075 | 0.32 | 0.32 | 58.8 |
| 4/18/2015 10:03:26 | 40.03 | 37.43 | 1,075 | 0.32 | 0.32 | 58.8 |
| 4/18/2015 10:03:26 | 40.35 | 37.75 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/18/2015 10:03:26 | 40.68 | 38.08 | 1,064 | 0.25 | 0.32 | 58.2 |
| 4/18/2015 10:03:27 | 41.01 | 38.41 | 1,064 | 0.25 | 0.32 | 58.2 |
| 4/18/2015 10:03:27 | 41.34 | 38.74 | 1,071 | 0.26 | 0.33 | 58.6 |
| 4/18/2015 10:03:28 | 41.67 | 39.07 | 1,071 | 0.26 | 0.33 | 58.6 |
| 4/18/2015 10:03:28 | 41.99 | 39.39 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 10:03:28 | 42.32 | 39.72 | 1,041 | 0.27 | 0.32 | 56.9 |
| 4/18/2015 10:03:28 | 42.65 | 40.05 | 1,041 | 0.27 | 0.32 | 56.9 |
| 4/18/2015 10:03:29 | 42.98 | 40.38 | 1,041 | 0.26 | 0.32 | 56.9 |
| 4/18/2015 10:03:29 | 43.31 | 40.71 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/18/2015 10:03:30 | 43.64 | 41.04 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/18/2015 10:03:30 | 43.96 | 41.36 | 1,053 | 0.26 | 0.32 | 57.6 |
| 4/18/2015 10:03:30 | 44.29 | 41.69 | 1,053 | 0.26 | 0.32 | 57.6 |
| 4/18/2015 10:03:30 | 44.62 | 42.02 | 1,046 | 0.26 | 0.32 | 57.2 |
| 4/18/2015 10:03:31 | 44.95 | 42.35 | 1,046 | 0.26 | 0.32 | 57.2 |
| 4/18/2015 10:03:31 | 45.28 | 42.68 | 1,046 | 0.26 | 0.32 | 57.2 |
| 4/18/2015 10:03:31 | 45.60 | 43.00 | 1,065 | 0.26 | 0.33 | 58.2 |
| 4/18/2015 10:03:32 | 45.93 | 43.33 | 1,096 | 0.26 | 0.32 | 59.9 |
| 4/18/2015 10:03:32 | 46.26 | 43.66 | 1,096 | 0.26 | 0.32 | 59.9 |
| 4/18/2015 10:03:32 | 46.59 | 43.99 | 1,072 | 0.26 | 0.32 | 58.6 |
| 4/18/2015 10:03:33 | 46.92 | 44.32 | 1,101 | 0.26 | 0.33 | 60.2 |
| 4/18/2015 10:03:33 | 47.24 | 44.64 | 1,101 | 0.26 | 0.33 | 60.2 |
| 4/18/2015 10:03:33 | 47.57 | 44.97 | 1,098 | 0.26 | 0.32 | 60.1 |
| 4/18/2015 10:03:34 | 47.90 | 45.30 | 1,098 | 0.26 | 0.32 | 60.1 |
| 4/18/2015 10:03:34 | 48.23 | 45.63 | 1,082 | 0.26 | 0.33 | 59.2 |
| 4/18/2015 10:03:34 | 48.56 | 45.96 | 1,060 | 0.26 | 0.32 | 58.0 |
| 4/18/2015 10:03:35 | 48.88 | 46.28 | 1,060 | 0.26 | 0.32 | 58.0 |
| 4/18/2015 10:03:35 | 49.21 | 46.61 | 1,060 | 0.26 | 0.32 | 58.0 |
| 4/18/2015 10:03:35 | 49.54 | 46.94 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 10:03:36 | 49.87 | 47.27 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 10:03:36 | 50.20 | 47.60 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 10:03:36 | 50.53 | 47.93 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 10:03:37 | 50.85 | 48.25 | 1,063 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 10:03:37 | 51.18 | 48.58 | 1,043 | 0.25 | 0.33 | 57.1 |
| 4/18/2015 10:03:37 | 51.51 | 48.91 | 1,043 | 0.26 | 0.33 | 57.1 |
| 4/18/2015 10:03:38 | 51.84 | 49.24 | 1,043 | 0.26 | 0.33 | 57.1 |
| 4/18/2015 10:03:38 | 52.17 | 49.57 | 1,042 | 0.26 | 0.33 | 57.0 |
| 4/18/2015 10:03:38 | 52.49 | 49.89 | 1,030 | 0.26 | 0.33 | 56.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 10:03:39 | 52.82 | 50.22 | 1,030 | 0.26 | 0.33 | 56.3 |
| 4/18/2015 | 10:03:39 | 53.15 | 50.55 | 1,004 | 0.26 | 0.33 | 54.9 |
| 4/18/2015 | 10:03:40 | 53.48 | 50.88 | 966 | 0.26 | 0.34 | 52.8 |
| 4/18/2015 | 10:03:40 | 53.81 | 51.21 | 949 | 0.26 | 0.34 | 51.9 |
| 4/18/2015 | 10:03:41 | 54.13 | 51.53 | 949 | 0.26 | 0.34 | 51.9 |
| 4/18/2015 | 10:03:41 | 54.46 | 51.86 | 940 | 0.26 | 0.33 | 51.4 |
| 4/18/2015 | 10:03:41 | 54.79 | 52.19 | 934 | 0.25 | 0.33 | 51.1 |
| 4/18/2015 | 10:03:42 | 55.12 | 52.52 | 926 | 0.26 | 0.34 | 50.6 |
| 4/18/2015 | 10:03:42 | 55.45 | 52.85 | 926 | 0.26 | 0.34 | 50.6 |
| 4/18/2015 | 10:03:42 | 55.77 | 53.17 | 917 | 0.26 | 0.34 | 50.2 |
| 4/18/2015 | 10:03:43 | 56.10 | 53.50 | 910 | 0.25 | 0.34 | 49.8 |
| 4/18/2015 | 10:03:43 | 56.43 | 53.83 | 890 | 0.26 | 0.32 | 48.7 |
| 4/18/2015 | 10:03:44 | 56.76 | 54.16 | 876 | 0.26 | 0.34 | 47.9 |
| 4/18/2015 | 10:03:44 | 57.09 | 54.49 | 876 | 0.26 | 0.34 | 47.9 |
| 4/18/2015 | 10:03:45 | 57.41 | 54.81 | 760 | 0.28 | 0.34 | 41.6 |
| 4/18/2015 | 10:03:45 | 57.65 | 55.05 | 701 | 0.24 | 0.41 | 38.3 |

## D86 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 10:01:46

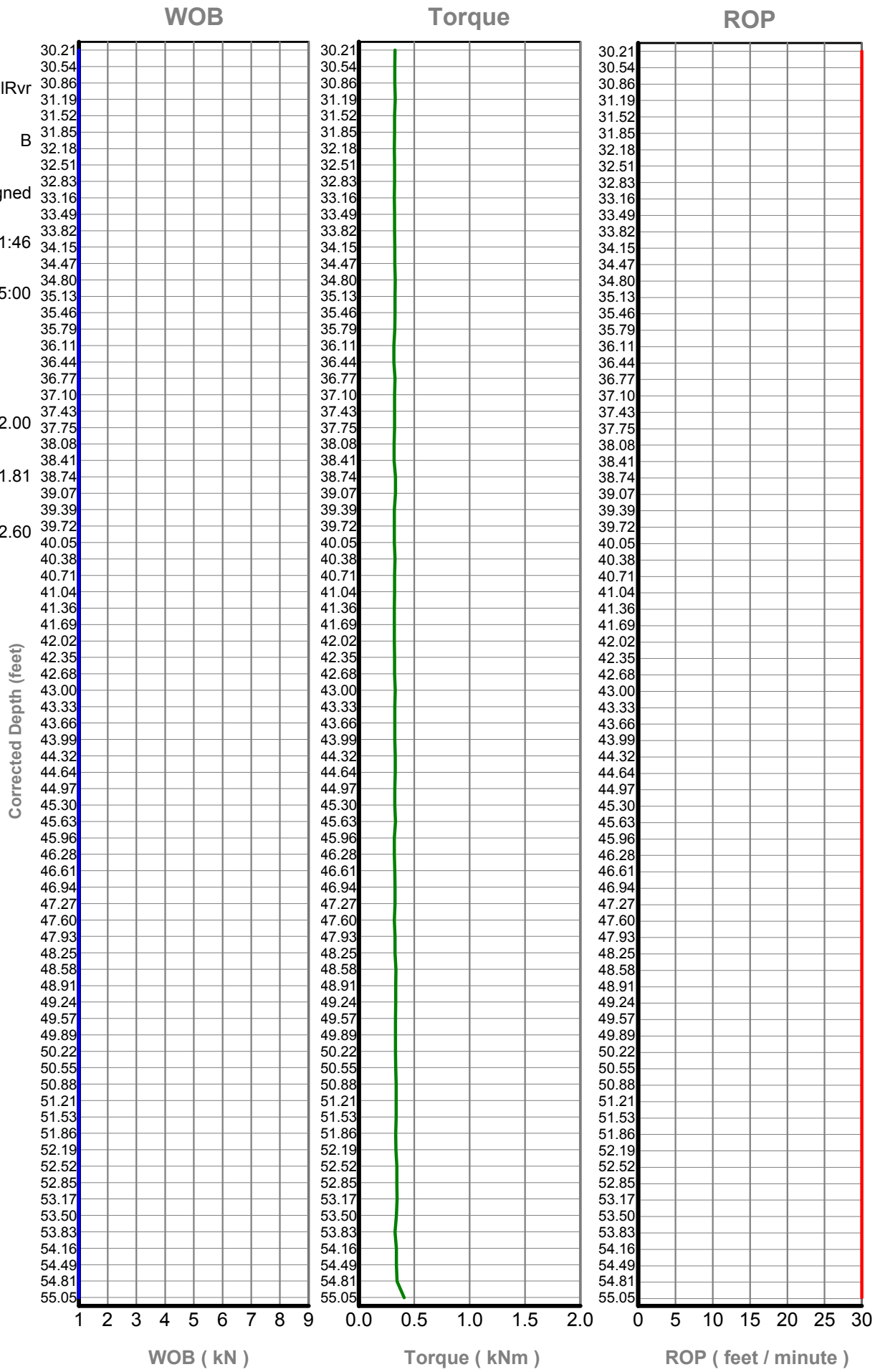
**End Date:**
4/18/2015 10:05:00

**Operator Note:**
'2.6 No rock'

**Northing:**
369,702.00

**Easting:**
255,851.81

**Tide (feet):**
2.60



## Hole: D87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:58:51 | 32.48 | 30.18 | 1,052 | 0.26 | 0.32 | 57.5 |
| 4/18/2015 9:58:51 | 32.81 | 30.51 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:58:52 | 33.14 | 30.84 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:58:52 | 33.46 | 31.16 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:58:52 | 33.79 | 31.49 | 1,064 | 0.26 | 0.33 | 58.2 |
| 4/18/2015 9:58:53 | 34.12 | 31.82 | 1,064 | 0.26 | 0.33 | 58.2 |
| 4/18/2015 9:58:53 | 34.45 | 32.15 | 1,064 | 0.25 | 0.32 | 58.2 |
| 4/18/2015 9:58:53 | 34.78 | 32.48 | 1,061 | 0.25 | 0.32 | 58.0 |
| 4/18/2015 9:58:54 | 35.11 | 32.81 | 1,061 | 0.25 | 0.32 | 58.0 |
| 4/18/2015 9:58:54 | 35.43 | 33.13 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:58:54 | 35.76 | 33.46 | 1,061 | 0.25 | 0.32 | 58.0 |
| 4/18/2015 9:58:55 | 36.09 | 33.79 | 1,061 | 0.25 | 0.32 | 58.0 |
| 4/18/2015 9:58:55 | 36.42 | 34.12 | 1,061 | 0.25 | 0.33 | 58.0 |
| 4/18/2015 9:58:55 | 36.75 | 34.45 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:58:56 | 37.07 | 34.77 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:58:56 | 37.40 | 35.10 | 1,061 | 0.24 | 0.33 | 58.0 |
| 4/18/2015 9:58:56 | 37.73 | 35.43 | 1,061 | 0.28 | 0.32 | 58.0 |
| 4/18/2015 9:58:57 | 38.06 | 35.76 | 1,061 | 0.28 | 0.32 | 58.0 |
| 4/18/2015 9:58:57 | 38.39 | 36.09 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:58:58 | 38.71 | 36.41 | 1,058 | 0.47 | 0.32 | 57.9 |
| 4/18/2015 9:58:58 | 39.04 | 36.74 | 1,058 | 0.47 | 0.32 | 57.9 |
| 4/18/2015 9:58:58 | 39.37 | 37.07 | 1,049 | 0.26 | 0.32 | 57.3 |
| 4/18/2015 9:58:59 | 39.70 | 37.40 | 1,049 | 0.26 | 0.32 | 57.3 |
| 4/18/2015 9:58:59 | 40.03 | 37.73 | 1,055 | 0.24 | 0.33 | 57.7 |
| 4/18/2015 9:58:59 | 40.35 | 38.05 | 1,052 | 0.29 | 0.32 | 57.5 |
| 4/18/2015 9:59:00 | 40.68 | 38.38 | 1,052 | 0.29 | 0.32 | 57.5 |
| 4/18/2015 9:59:00 | 41.01 | 38.71 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:59:00 | 41.34 | 39.04 | 1,052 | 0.26 | 0.33 | 57.5 |
| 4/18/2015 9:59:01 | 41.67 | 39.37 | 1,052 | 0.26 | 0.33 | 57.5 |
| 4/18/2015 9:59:01 | 41.99 | 39.69 | 1,049 | 0.25 | 0.32 | 57.4 |
| 4/18/2015 9:59:01 | 42.32 | 40.02 | 1,049 | 0.26 | 0.32 | 57.4 |
| 4/18/2015 9:59:02 | 42.65 | 40.35 | 1,049 | 0.26 | 0.32 | 57.4 |
| 4/18/2015 9:59:02 | 42.98 | 40.68 | 1,055 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:59:02 | 43.31 | 41.01 | 1,049 | 0.26 | 0.32 | 57.3 |
| 4/18/2015 9:59:03 | 43.64 | 41.34 | 1,049 | 0.26 | 0.32 | 57.3 |
| 4/18/2015 9:59:03 | 43.96 | 41.66 | 1,052 | 0.26 | 0.32 | 57.5 |
| 4/18/2015 9:59:03 | 44.29 | 41.99 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/18/2015 9:59:04 | 44.62 | 42.32 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/18/2015 9:59:04 | 44.95 | 42.65 | 1,064 | 0.26 | 0.33 | 58.2 |
| 4/18/2015 9:59:04 | 45.28 | 42.98 | 1,058 | 0.26 | 0.32 | 57.9 |
| 4/18/2015 9:59:05 | 45.60 | 43.30 | 1,058 | 0.26 | 0.32 | 57.9 |
| 4/18/2015 9:59:05 | 45.93 | 43.63 | 1,058 | 0.25 | 0.32 | 57.9 |
| 4/18/2015 9:59:05 | 46.26 | 43.96 | 1,058 | 0.25 | 0.32 | 57.9 |
| 4/18/2015 9:59:05 | 46.59 | 44.29 | 1,062 | 0.26 | 0.32 | 58.1 |
| 4/18/2015 9:59:06 | 46.92 | 44.62 | 1,058 | 0.26 | 0.32 | 57.9 |
| 4/18/2015 9:59:06 | 47.24 | 44.94 | 1,058 | 0.26 | 0.32 | 57.9 |
| 4/18/2015 9:59:06 | 47.57 | 45.27 | 1,049 | 0.26 | 0.33 | 57.3 |
| 4/18/2015 9:59:07 | 47.90 | 45.60 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:59:07 | 48.23 | 45.93 | 1,061 | 0.26 | 0.33 | 58.0 |
| 4/18/2015 9:59:07 | 48.56 | 46.26 | 1,067 | 0.26 | 0.32 | 58.4 |
| 4/18/2015 9:59:08 | 48.88 | 46.58 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:59:09 | 49.21 | 46.91 | 1,064 | 0.26 | 0.32 | 58.2 |
| 4/18/2015 9:59:09 | 49.54 | 47.24 | 1,061 | 0.26 | 0.32 | 58.0 |
| 4/18/2015 9:59:09 | 49.87 | 47.57 | 1,070 | 0.26 | 0.31 | 58.5 |
| 4/18/2015 9:59:10 | 50.20 | 47.90 | 1,070 | 0.26 | 0.31 | 58.5 |
| 4/18/2015 9:59:10 | 50.53 | 48.23 | 1,061 | 0.26 | 0.32 | 58.0 |
| 4/18/2015 9:59:10 | 50.85 | 48.55 | 1,054 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:59:11 | 51.18 | 48.88 | 1,054 | 0.26 | 0.32 | 57.7 |
| 4/18/2015 9:59:11 | 51.51 | 49.21 | 1,055 | 0.25 | 0.34 | 57.7 |
| 4/18/2015 9:59:11 | 51.84 | 49.54 | 1,029 | 0.26 | 0.37 | 56.3 |
| 4/18/2015 9:59:12 | 52.17 | 49.87 | 909 | 0.24 | 0.37 | 49.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:59:25 | 52.49 | 50.19 | 0 | 2.27 | 0.34 | 0.0 |
| 4/18/2015 | 9:59:26 | 52.82 | 50.52 | 0 | 2.01 | 0.33 | 0.0 |
| 4/18/2015 | 9:59:26 | 53.15 | 50.85 | 152 | 1.88 | 0.34 | 8.3 |
| 4/18/2015 | 9:59:27 | 53.48 | 51.18 | 152 | 6.69 | 0.40 | 8.3 |
| 4/18/2015 | 9:59:27 | 53.81 | 51.51 | 290 | 1.72 | 0.33 | 15.8 |
| 4/18/2015 | 9:59:28 | 54.13 | 51.83 | 472 | 1.79 | 0.34 | 25.8 |
| 4/18/2015 | 9:59:28 | 54.46 | 52.16 | 472 | 1.79 | 0.34 | 25.8 |
| 4/18/2015 | 9:59:29 | 54.79 | 52.49 | 664 | 1.73 | 0.34 | 36.3 |
| 4/18/2015 | 9:59:29 | 55.12 | 52.82 | 834 | 1.73 | 0.34 | 45.6 |
| 4/18/2015 | 9:59:30 | 55.45 | 53.15 | 834 | 1.73 | 0.34 | 45.6 |
| 4/18/2015 | 9:59:30 | 55.77 | 53.47 | 834 | 1.73 | 0.34 | 45.6 |
| 4/18/2015 | 9:59:30 | 56.10 | 53.80 | 865 | 1.75 | 0.34 | 47.3 |
| 4/18/2015 | 9:59:31 | 56.43 | 54.13 | 905 | 1.72 | 0.34 | 49.5 |
| 4/18/2015 | 9:59:31 | 56.76 | 54.46 | 904 | 1.72 | 0.34 | 49.5 |
| 4/18/2015 | 9:59:32 | 57.09 | 54.79 | 890 | 1.69 | 0.31 | 48.7 |
| 4/18/2015 | 9:59:33 | 57.41 | 55.11 | 471 | 1.71 | 0.33 | 25.8 |
| 4/18/2015 | 9:59:33 | 57.48 | 55.18 | 471 | 1.71 | 0.33 | 25.8 |

## D87 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:56:44

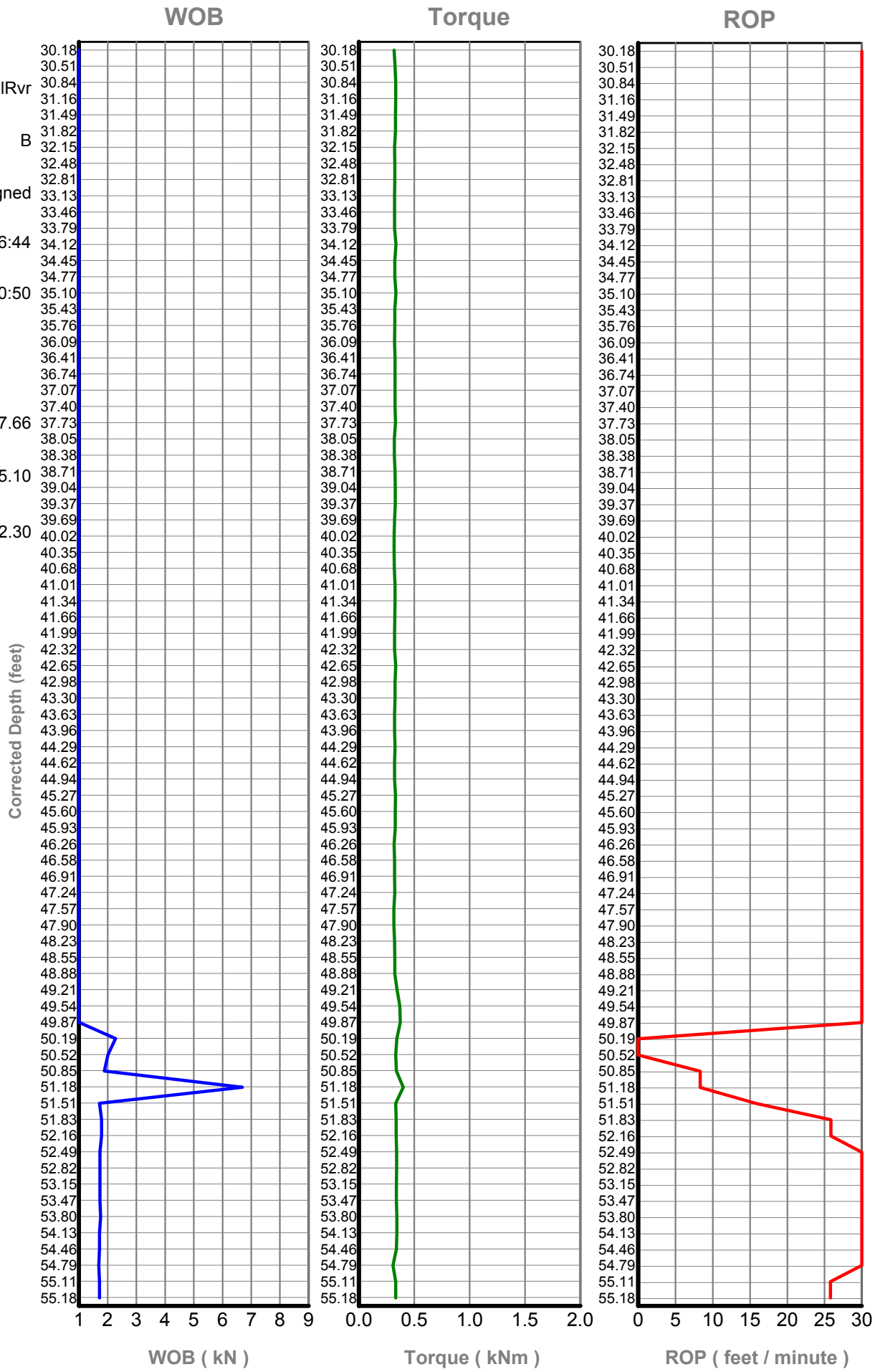
**End Date:**
4/18/2015 10:00:50

**Operator Note:**
'2.3 2.5 b No rock'

**Northing:**
369,727.66

**Easting:**
255,905.10

**Tide (feet):**
2.30



## Hole: D88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:59:42 | 32.81 | 30.21 | 676 | 2.19 | 0.26 | 37.0 |
| 4/18/2015 9:59:42 | 33.14 | 30.54 | 676 | 2.17 | 0.27 | 37.0 |
| 4/18/2015 9:59:43 | 33.46 | 30.86 | 676 | 2.23 | 0.27 | 37.0 |
| 4/18/2015 9:59:43 | 33.79 | 31.19 | 672 | 2.17 | 0.26 | 36.8 |
| 4/18/2015 9:59:44 | 34.12 | 31.52 | 680 | 2.17 | 0.26 | 37.2 |
| 4/18/2015 9:59:44 | 34.45 | 31.85 | 680 | 2.19 | 0.26 | 37.2 |
| 4/18/2015 9:59:45 | 34.78 | 32.18 | 680 | 2.18 | 0.26 | 37.2 |
| 4/18/2015 9:59:46 | 35.11 | 32.51 | 675 | 2.12 | 0.26 | 36.9 |
| 4/18/2015 9:59:46 | 35.43 | 32.83 | 684 | 2.12 | 0.27 | 37.4 |
| 4/18/2015 9:59:47 | 35.76 | 33.16 | 674 | 2.10 | 0.27 | 36.8 |
| 4/18/2015 9:59:47 | 36.09 | 33.49 | 668 | 2.12 | 0.27 | 36.5 |
| 4/18/2015 9:59:48 | 36.42 | 33.82 | 665 | 2.12 | 0.27 | 36.4 |
| 4/18/2015 9:59:48 | 36.75 | 34.15 | 669 | 2.12 | 0.27 | 36.6 |
| 4/18/2015 9:59:49 | 37.07 | 34.47 | 659 | 2.11 | 0.28 | 36.0 |
| 4/18/2015 9:59:49 | 37.40 | 34.80 | 663 | 2.12 | 0.26 | 36.3 |
| 4/18/2015 9:59:50 | 37.73 | 35.13 | 655 | 2.10 | 0.26 | 35.8 |
| 4/18/2015 9:59:50 | 38.06 | 35.46 | 659 | 2.11 | 0.26 | 36.1 |
| 4/18/2015 9:59:51 | 38.39 | 35.79 | 653 | 2.12 | 0.27 | 35.7 |
| 4/18/2015 9:59:51 | 38.71 | 36.11 | 657 | 2.14 | 0.27 | 35.9 |
| 4/18/2015 9:59:52 | 39.04 | 36.44 | 643 | 2.13 | 0.27 | 35.2 |
| 4/18/2015 9:59:52 | 39.37 | 36.77 | 654 | 2.11 | 0.27 | 35.7 |
| 4/18/2015 9:59:53 | 39.70 | 37.10 | 651 | 2.12 | 0.27 | 35.6 |
| 4/18/2015 9:59:53 | 40.03 | 37.43 | 655 | 2.12 | 0.26 | 35.8 |
| 4/18/2015 9:59:54 | 40.35 | 37.75 | 644 | 2.12 | 0.33 | 35.2 |
| 4/18/2015 9:59:55 | 40.68 | 38.08 | 648 | 2.10 | 0.26 | 35.4 |
| 4/18/2015 9:59:56 | 41.01 | 38.41 | 644 | 2.12 | 0.26 | 35.2 |
| 4/18/2015 9:59:56 | 41.34 | 38.74 | 641 | 2.12 | 0.26 | 35.1 |
| 4/18/2015 9:59:57 | 41.67 | 39.07 | 654 | 2.12 | 0.26 | 35.8 |
| 4/18/2015 9:59:57 | 41.99 | 39.39 | 638 | 2.10 | 0.26 | 34.9 |
| 4/18/2015 9:59:58 | 42.32 | 39.72 | 628 | 2.11 | 0.26 | 34.3 |
| 4/18/2015 9:59:58 | 42.65 | 40.05 | 628 | 2.11 | 0.26 | 34.3 |
| 4/18/2015 9:59:59 | 42.98 | 40.38 | 640 | 2.12 | 0.26 | 35.0 |
| 4/18/2015 9:59:59 | 43.31 | 40.71 | 636 | 2.11 | 0.27 | 34.8 |
| 4/18/2015 10:00:00 | 43.64 | 41.04 | 626 | 2.10 | 0.27 | 34.3 |
| 4/18/2015 10:00:00 | 43.96 | 41.36 | 637 | 2.12 | 0.26 | 34.8 |
| 4/18/2015 10:00:01 | 44.29 | 41.69 | 654 | 2.12 | 0.26 | 35.8 |
| 4/18/2015 10:00:01 | 44.62 | 42.02 | 639 | 2.12 | 0.27 | 34.9 |
| 4/18/2015 10:00:02 | 44.95 | 42.35 | 639 | 2.11 | 0.27 | 34.9 |
| 4/18/2015 10:00:03 | 45.28 | 42.68 | 639 | 2.11 | 0.27 | 35.0 |
| 4/18/2015 10:00:03 | 45.60 | 43.00 | 636 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 10:00:04 | 45.93 | 43.33 | 636 | 2.10 | 0.26 | 34.8 |
| 4/18/2015 10:00:04 | 46.26 | 43.66 | 636 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 10:00:05 | 46.59 | 43.99 | 639 | 2.10 | 0.26 | 35.0 |
| 4/18/2015 10:00:05 | 46.92 | 44.32 | 636 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 10:00:06 | 47.24 | 44.64 | 636 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 10:00:07 | 47.57 | 44.97 | 636 | 2.11 | 0.26 | 34.8 |
| 4/18/2015 10:00:07 | 47.90 | 45.30 | 639 | 2.11 | 0.26 | 34.9 |
| 4/18/2015 10:00:08 | 48.23 | 45.63 | 644 | 2.11 | 0.26 | 35.2 |
| 4/18/2015 10:00:08 | 48.56 | 45.96 | 636 | 2.12 | 0.26 | 34.8 |
| 4/18/2015 10:00:09 | 48.88 | 46.28 | 629 | 2.12 | 0.26 | 34.4 |
| 4/18/2015 10:00:10 | 49.21 | 46.61 | 616 | 2.13 | 0.26 | 33.7 |
| 4/18/2015 10:00:10 | 49.54 | 46.94 | 607 | 2.12 | 0.26 | 33.2 |
| 4/18/2015 10:00:11 | 49.87 | 47.27 | 598 | 2.14 | 0.26 | 32.7 |
| 4/18/2015 10:00:11 | 50.20 | 47.60 | 587 | 2.12 | 0.26 | 32.1 |
| 4/18/2015 10:00:12 | 50.53 | 47.93 | 578 | 2.14 | 0.26 | 31.6 |
| 4/18/2015 10:00:13 | 50.85 | 48.25 | 563 | 2.13 | 0.26 | 30.8 |
| 4/18/2015 10:00:13 | 51.18 | 48.58 | 564 | 2.12 | 0.26 | 30.8 |
| 4/18/2015 10:00:14 | 51.51 | 48.91 | 564 | 2.13 | 0.25 | 30.8 |
| 4/18/2015 10:00:14 | 51.84 | 49.24 | 564 | 2.12 | 0.26 | 30.8 |
| 4/18/2015 10:00:15 | 52.17 | 49.57 | 560 | 2.13 | 0.26 | 30.6 |
| 4/18/2015 10:00:16 | 52.49 | 49.89 | 564 | 2.13 | 0.26 | 30.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 10:00:17 | 52.82 | 50.22 | 567 | 2.13 | 0.26 | 31.0 |
| 4/18/2015 | 10:00:17 | 53.15 | 50.55 | 564 | 2.13 | 0.26 | 30.8 |
| 4/18/2015 | 10:00:18 | 53.48 | 50.88 | 564 | 2.14 | 0.25 | 30.8 |
| 4/18/2015 | 10:00:19 | 53.81 | 51.21 | 558 | 2.14 | 0.19 | 30.5 |
| 4/18/2015 | 10:00:19 | 54.13 | 51.53 | 552 | 2.14 | 0.25 | 30.2 |
| 4/18/2015 | 10:00:20 | 54.46 | 51.86 | 555 | 2.12 | 0.25 | 30.4 |
| 4/18/2015 | 10:00:20 | 54.79 | 52.19 | 552 | 2.14 | 0.25 | 30.2 |
| 4/18/2015 | 10:00:21 | 55.12 | 52.52 | 549 | 2.14 | 0.25 | 30.0 |
| 4/18/2015 | 10:00:22 | 55.45 | 52.85 | 546 | 2.14 | 0.26 | 29.9 |
| 4/18/2015 | 10:00:22 | 55.77 | 53.17 | 541 | 2.13 | 0.26 | 29.6 |
| 4/18/2015 | 10:00:23 | 56.10 | 53.50 | 532 | 2.14 | 0.25 | 29.1 |
| 4/18/2015 | 10:00:24 | 56.43 | 53.83 | 535 | 2.17 | 0.25 | 29.3 |
| 4/18/2015 | 10:00:24 | 56.76 | 54.16 | 533 | 2.14 | 0.25 | 29.1 |
| 4/18/2015 | 10:00:25 | 57.09 | 54.49 | 533 | 2.14 | 0.26 | 29.1 |
| 4/18/2015 | 10:00:26 | 57.41 | 54.81 | 529 | 2.14 | 0.32 | 28.9 |
| 4/18/2015 | 10:00:27 | 57.74 | 55.14 | 523 | 2.14 | 0.26 | 28.6 |
| 4/18/2015 | 10:00:27 | 58.06 | 55.46 | 526 | 1.87 | 0.26 | 28.8 |

## D88 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 9:57:46

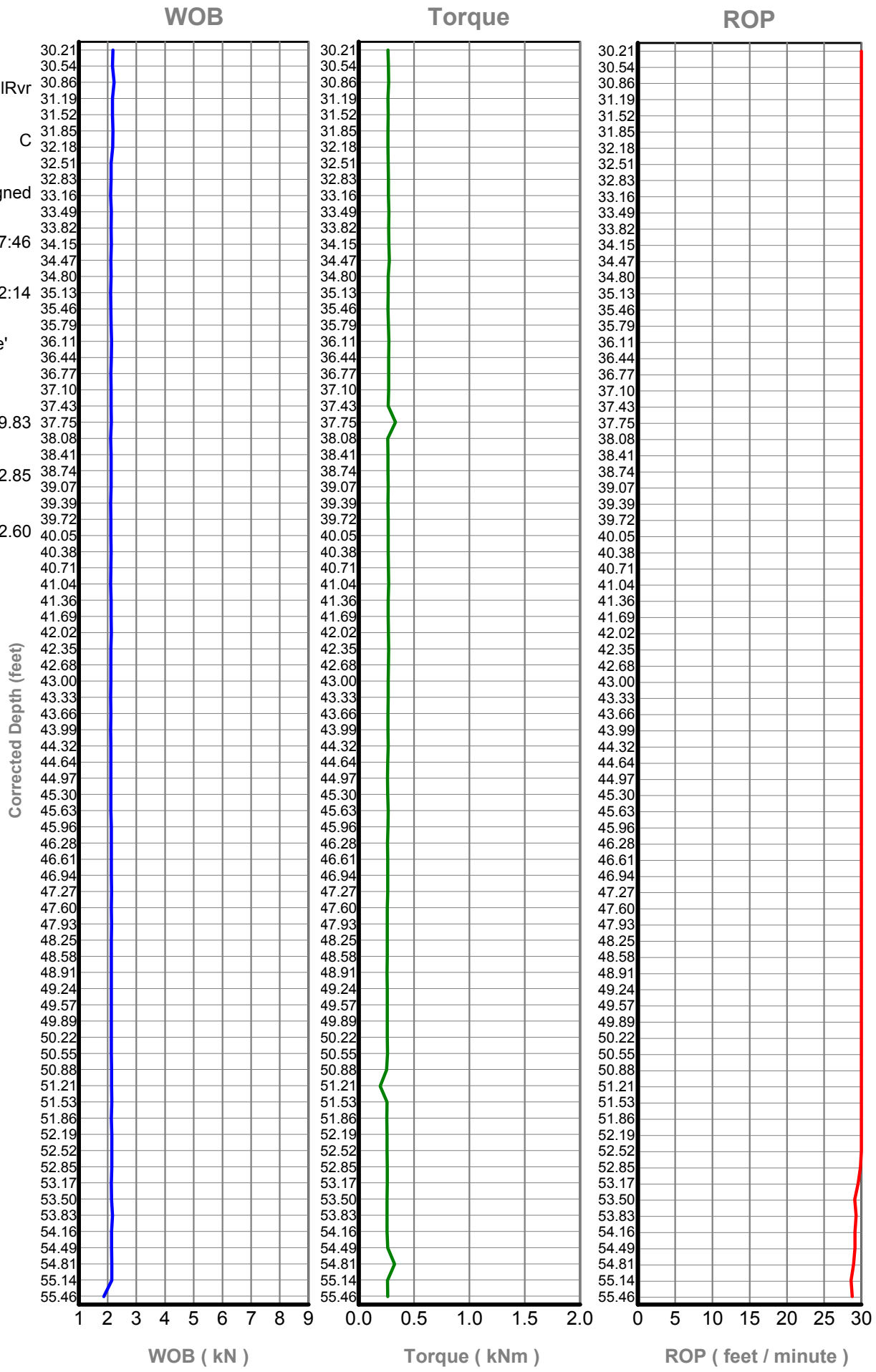
**End Date:**
4/18/2015 10:02:14

**Operator Note:**
'2.6 2.5 c Auto Complete'

**Northing:**
369,759.83

**Easting:**
255,972.85

**Tide (feet):**
2.60



## Hole: D89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:40:09 | 32.15 | 30.25 | 671 | 2.12 | 0.27 | 36.7 |
| 4/18/2015 9:40:10 | 32.48 | 30.58 | 666 | 2.12 | 0.27 | 36.4 |
| 4/18/2015 9:40:10 | 32.81 | 30.91 | 656 | 2.12 | 0.26 | 35.8 |
| 4/18/2015 9:40:11 | 33.14 | 31.24 | 659 | 2.12 | 0.27 | 36.1 |
| 4/18/2015 9:40:11 | 33.46 | 31.56 | 659 | 2.10 | 0.26 | 36.1 |
| 4/18/2015 9:40:12 | 33.79 | 31.89 | 656 | 2.12 | 0.29 | 35.9 |
| 4/18/2015 9:40:13 | 34.12 | 32.22 | 656 | 2.11 | 0.27 | 35.9 |
| 4/18/2015 9:40:13 | 34.45 | 32.55 | 653 | 2.12 | 0.27 | 35.7 |
| 4/18/2015 9:40:14 | 34.78 | 32.88 | 656 | 2.12 | 0.27 | 35.9 |
| 4/18/2015 9:40:14 | 35.11 | 33.21 | 654 | 2.11 | 0.26 | 35.7 |
| 4/18/2015 9:40:15 | 35.43 | 33.53 | 651 | 2.11 | 0.26 | 35.6 |
| 4/18/2015 9:40:15 | 35.76 | 33.86 | 648 | 2.14 | 0.26 | 35.4 |
| 4/18/2015 9:40:16 | 36.09 | 34.19 | 651 | 2.11 | 0.27 | 35.6 |
| 4/18/2015 9:40:16 | 36.42 | 34.52 | 648 | 2.11 | 0.26 | 35.4 |
| 4/18/2015 9:40:17 | 36.75 | 34.85 | 645 | 2.11 | 0.26 | 35.3 |
| 4/18/2015 9:40:17 | 37.07 | 35.17 | 644 | 2.11 | 0.26 | 35.2 |
| 4/18/2015 9:40:18 | 37.40 | 35.50 | 654 | 2.12 | 0.27 | 35.8 |
| 4/18/2015 9:40:18 | 37.73 | 35.83 | 645 | 2.11 | 0.27 | 35.3 |
| 4/18/2015 9:40:19 | 38.06 | 36.16 | 645 | 2.12 | 0.27 | 35.3 |
| 4/18/2015 9:40:20 | 38.39 | 36.49 | 648 | 2.11 | 0.27 | 35.4 |
| 4/18/2015 9:40:20 | 38.71 | 36.81 | 648 | 2.10 | 0.27 | 35.4 |
| 4/18/2015 9:40:21 | 39.04 | 37.14 | 645 | 2.10 | 0.27 | 35.2 |
| 4/18/2015 9:40:22 | 39.37 | 37.47 | 644 | 2.11 | 0.27 | 35.2 |
| 4/18/2015 9:40:22 | 39.70 | 37.80 | 647 | 2.10 | 0.27 | 35.4 |
| 4/18/2015 9:40:23 | 40.03 | 38.13 | 631 | 2.11 | 0.27 | 34.5 |
| 4/18/2015 9:40:23 | 40.35 | 38.45 | 631 | 2.13 | 0.27 | 34.5 |
| 4/18/2015 9:40:24 | 40.68 | 38.78 | 639 | 2.10 | 0.26 | 34.9 |
| 4/18/2015 9:40:24 | 41.01 | 39.11 | 639 | 2.12 | 0.27 | 34.9 |
| 4/18/2015 9:40:25 | 41.34 | 39.44 | 643 | 2.10 | 0.27 | 35.2 |
| 4/18/2015 9:40:25 | 41.67 | 39.77 | 636 | 2.12 | 0.27 | 34.8 |
| 4/18/2015 9:40:26 | 41.99 | 40.09 | 650 | 2.12 | 0.27 | 35.5 |
| 4/18/2015 9:40:26 | 42.32 | 40.42 | 645 | 2.10 | 0.27 | 35.3 |
| 4/18/2015 9:40:27 | 42.65 | 40.75 | 642 | 2.12 | 0.27 | 35.1 |
| 4/18/2015 9:40:27 | 42.98 | 41.08 | 642 | 2.11 | 0.26 | 35.1 |
| 4/18/2015 9:40:28 | 43.31 | 41.41 | 642 | 2.12 | 0.28 | 35.1 |
| 4/18/2015 9:40:28 | 43.64 | 41.74 | 645 | 2.11 | 0.26 | 35.3 |
| 4/18/2015 9:40:29 | 43.96 | 42.06 | 642 | 2.10 | 0.26 | 35.1 |
| 4/18/2015 9:40:30 | 44.29 | 42.39 | 628 | 2.11 | 0.26 | 34.3 |
| 4/18/2015 9:40:31 | 44.62 | 42.72 | 624 | 1.89 | 0.26 | 34.1 |
| 4/18/2015 9:40:31 | 44.95 | 43.05 | 625 | 2.12 | 0.26 | 34.2 |
| 4/18/2015 9:40:32 | 45.28 | 43.38 | 625 | 2.11 | 0.26 | 34.2 |
| 4/18/2015 9:40:32 | 45.60 | 43.70 | 631 | 2.12 | 0.26 | 34.5 |
| 4/18/2015 9:40:33 | 45.93 | 44.03 | 635 | 2.12 | 0.26 | 34.7 |
| 4/18/2015 9:40:33 | 46.26 | 44.36 | 642 | 2.11 | 0.26 | 35.1 |
| 4/18/2015 9:40:34 | 46.59 | 44.69 | 646 | 2.11 | 0.25 | 35.3 |
| 4/18/2015 9:40:34 | 46.92 | 45.02 | 642 | 2.12 | 0.26 | 35.1 |
| 4/18/2015 9:40:35 | 47.24 | 45.34 | 639 | 2.12 | 0.26 | 34.9 |
| 4/18/2015 9:40:35 | 47.57 | 45.67 | 632 | 2.11 | 0.26 | 34.5 |
| 4/18/2015 9:40:36 | 47.90 | 46.00 | 639 | 2.11 | 0.25 | 35.0 |
| 4/18/2015 9:40:37 | 48.23 | 46.33 | 628 | 2.20 | 0.25 | 34.3 |
| 4/18/2015 9:41:34 | 48.56 | 46.66 | 31 | 2.19 | 0.87 | 1.7 |
| 4/18/2015 9:41:34 | 48.88 | 46.98 | 123 | 2.19 | 0.88 | 6.7 |
| 4/18/2015 9:41:35 | 49.21 | 47.31 | 300 | 2.18 | 0.85 | 16.4 |
| 4/18/2015 9:41:36 | 49.54 | 47.64 | 391 | 2.18 | 0.86 | 21.4 |
| 4/18/2015 9:41:37 | 49.87 | 47.97 | 441 | 2.15 | 0.87 | 24.1 |
| 4/18/2015 9:41:38 | 50.20 | 48.30 | 443 | 2.18 | 0.85 | 24.2 |
| 4/18/2015 9:41:38 | 50.53 | 48.63 | 445 | 2.17 | 0.98 | 24.3 |
| 4/18/2015 9:41:39 | 50.85 | 48.95 | 444 | 2.17 | 0.85 | 24.3 |
| 4/18/2015 9:41:40 | 51.18 | 49.28 | 443 | 2.16 | 0.88 | 24.2 |
| 4/18/2015 9:41:41 | 51.51 | 49.61 | 434 | 2.16 | 0.83 | 23.7 |
| 4/18/2015 9:41:42 | 51.84 | 49.94 | 437 | 2.18 | 0.87 | 23.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:41:43 | 52.17 | 50.27 | 434 | 2.17 | 0.95 | 23.8 |
| 4/18/2015 | 9:41:43 | 52.49 | 50.59 | 434 | 2.17 | 0.90 | 23.8 |
| 4/18/2015 | 9:41:44 | 52.82 | 50.92 | 446 | 2.19 | 0.90 | 24.4 |
| 4/18/2015 | 9:41:45 | 53.15 | 51.25 | 435 | 2.17 | 0.84 | 23.8 |
| 4/18/2015 | 9:41:46 | 53.48 | 51.58 | 437 | 2.17 | 0.84 | 23.9 |
| 4/18/2015 | 9:41:47 | 53.81 | 51.91 | 438 | 2.17 | 0.83 | 24.0 |
| 4/18/2015 | 9:41:47 | 54.13 | 52.23 | 435 | 2.17 | 0.84 | 23.8 |
| 4/18/2015 | 9:41:48 | 54.46 | 52.56 | 435 | 2.17 | 0.82 | 23.8 |
| 4/18/2015 | 9:41:49 | 54.79 | 52.89 | 435 | 2.17 | 0.95 | 23.8 |
| 4/18/2015 | 9:41:50 | 55.12 | 53.22 | 435 | 2.17 | 0.80 | 23.8 |
| 4/18/2015 | 9:41:50 | 55.45 | 53.55 | 436 | 2.16 | 0.82 | 23.8 |
| 4/18/2015 | 9:41:51 | 55.77 | 53.87 | 437 | 2.18 | 0.82 | 23.9 |
| 4/18/2015 | 9:41:53 | 56.10 | 54.20 | 439 | 2.17 | 0.81 | 24.0 |
| 4/18/2015 | 9:41:53 | 56.43 | 54.53 | 441 | 2.17 | 0.94 | 24.1 |
| 4/18/2015 | 9:41:54 | 56.76 | 54.86 | 431 | 2.17 | 0.85 | 23.6 |
| 4/18/2015 | 9:41:55 | 57.09 | 55.19 | 434 | 2.17 | 0.88 | 23.7 |
| 4/18/2015 | 9:41:56 | 57.41 | 55.51 | 428 | 2.19 | 0.85 | 23.4 |
| 4/18/2015 | 9:41:57 | 57.74 | 55.84 | 435 | 2.12 | 0.84 | 23.8 |
| 4/18/2015 | 9:41:57 | 58.07 | 56.17 | 437 | 2.16 | 0.87 | 23.9 |
| 4/18/2015 | 9:41:58 | 58.40 | 56.50 | 429 | 2.17 | 0.80 | 23.4 |
| 4/18/2015 | 9:41:59 | 58.71 | 56.81 | 436 | 2.18 | 0.83 | 23.9 |

## D89 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/18/2015 9:38:34

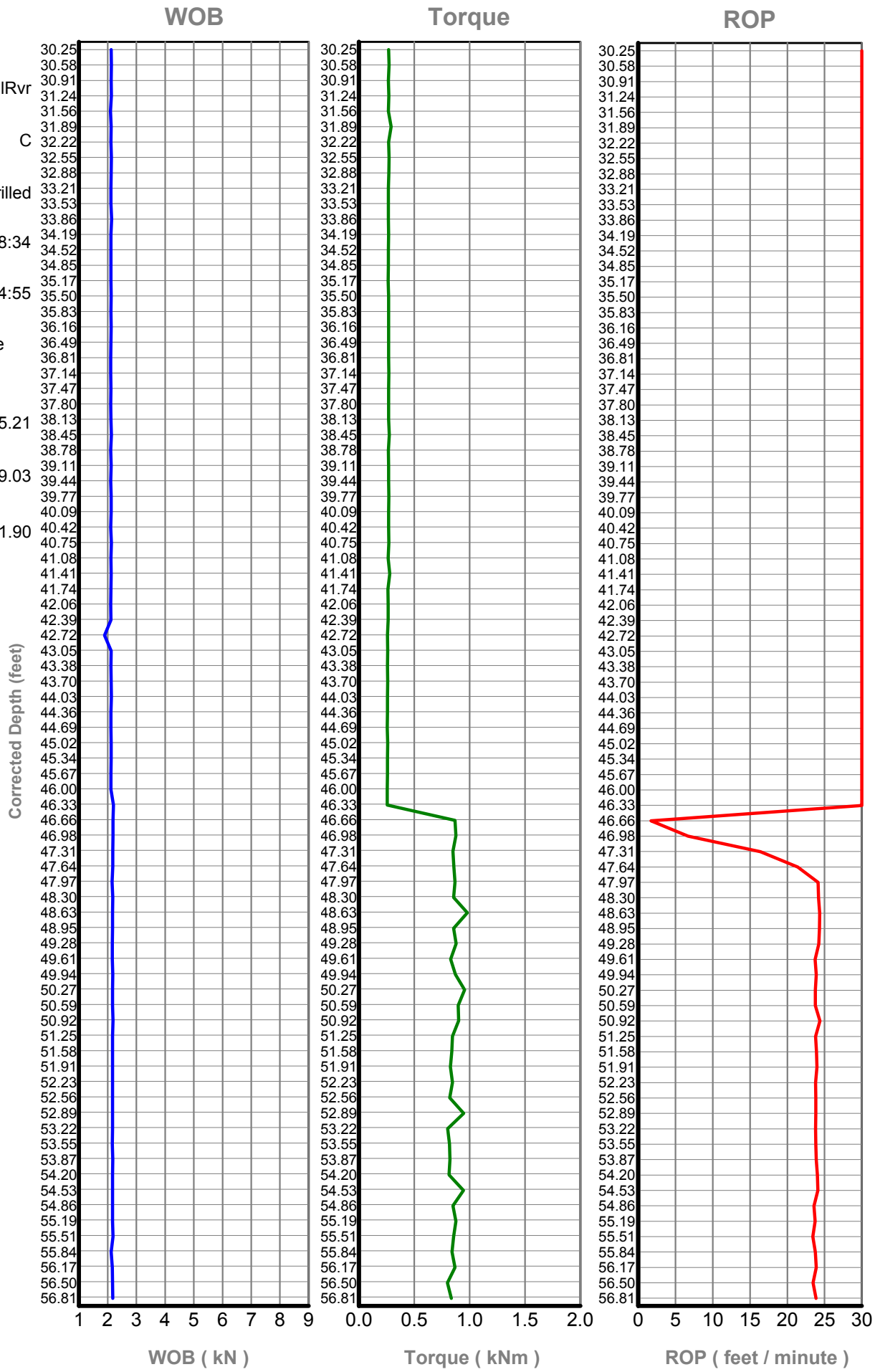
**End Date:**
4/18/2015 9:44:55

**Operator Note:**
'1.9 2.0 c Auto Complete

**Northing:**
369,825.21

**Easting:**
255,939.03

**Tide (feet):**
1.90



## Hole: D9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 15:25:43 | 34.45 | 30.25 | 671 | 1.55 | 0.26 | 36.7 |
| 4/18/2015 15:25:44 | 34.78 | 30.58 | 671 | 1.55 | 0.26 | 36.7 |
| 4/18/2015 15:25:44 | 35.11 | 30.91 | 664 | 1.55 | 0.26 | 36.3 |
| 4/18/2015 15:25:45 | 35.43 | 31.23 | 668 | 1.55 | 0.26 | 36.5 |
| 4/18/2015 15:25:45 | 35.76 | 31.56 | 665 | 1.55 | 0.26 | 36.4 |
| 4/18/2015 15:25:46 | 36.09 | 31.89 | 665 | 1.55 | 0.26 | 36.4 |
| 4/18/2015 15:25:46 | 36.42 | 32.22 | 665 | 1.55 | 0.26 | 36.4 |
| 4/18/2015 15:25:47 | 36.75 | 32.55 | 671 | 1.55 | 0.26 | 36.7 |
| 4/18/2015 15:25:47 | 37.07 | 32.87 | 668 | 1.54 | 0.26 | 36.5 |
| 4/18/2015 15:25:48 | 37.40 | 33.20 | 671 | 1.55 | 0.26 | 36.7 |
| 4/18/2015 15:25:48 | 37.73 | 33.53 | 667 | 1.55 | 0.26 | 36.5 |
| 4/18/2015 15:25:49 | 38.06 | 33.86 | 674 | 1.58 | 0.26 | 36.8 |
| 4/18/2015 15:26:12 | 38.39 | 34.19 | 79 | 1.59 | 0.80 | 4.3 |
| 4/18/2015 15:26:13 | 38.71 | 34.51 | 187 | 1.68 | 1.13 | 10.2 |
| 4/18/2015 15:26:15 | 39.04 | 34.84 | 283 | 1.76 | 1.49 | 15.5 |
| 4/18/2015 15:26:34 | 39.37 | 35.17 | 128 | 1.76 | 1.19 | 7.0 |
| 4/18/2015 15:26:42 | 39.70 | 35.50 | 34 | 1.82 | 1.06 | 1.9 |
| 4/18/2015 15:26:51 | 40.03 | 35.83 | 46 | 1.83 | 1.12 | 2.5 |
| 4/18/2015 15:26:58 | 40.35 | 36.15 | 58 | 1.79 | 1.19 | 3.1 |
| 4/18/2015 15:27:02 | 40.68 | 36.48 | 55 | 1.81 | 1.25 | 3.0 |
| 4/18/2015 15:27:11 | 41.01 | 36.81 | 40 | 1.80 | 1.10 | 2.2 |
| 4/18/2015 15:27:18 | 41.26 | 37.06 | 40 | 1.74 | 1.16 | 2.2 |

## D9 - Summary

**Pattern Number:**
AreaD_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/18/2015 15:24:06

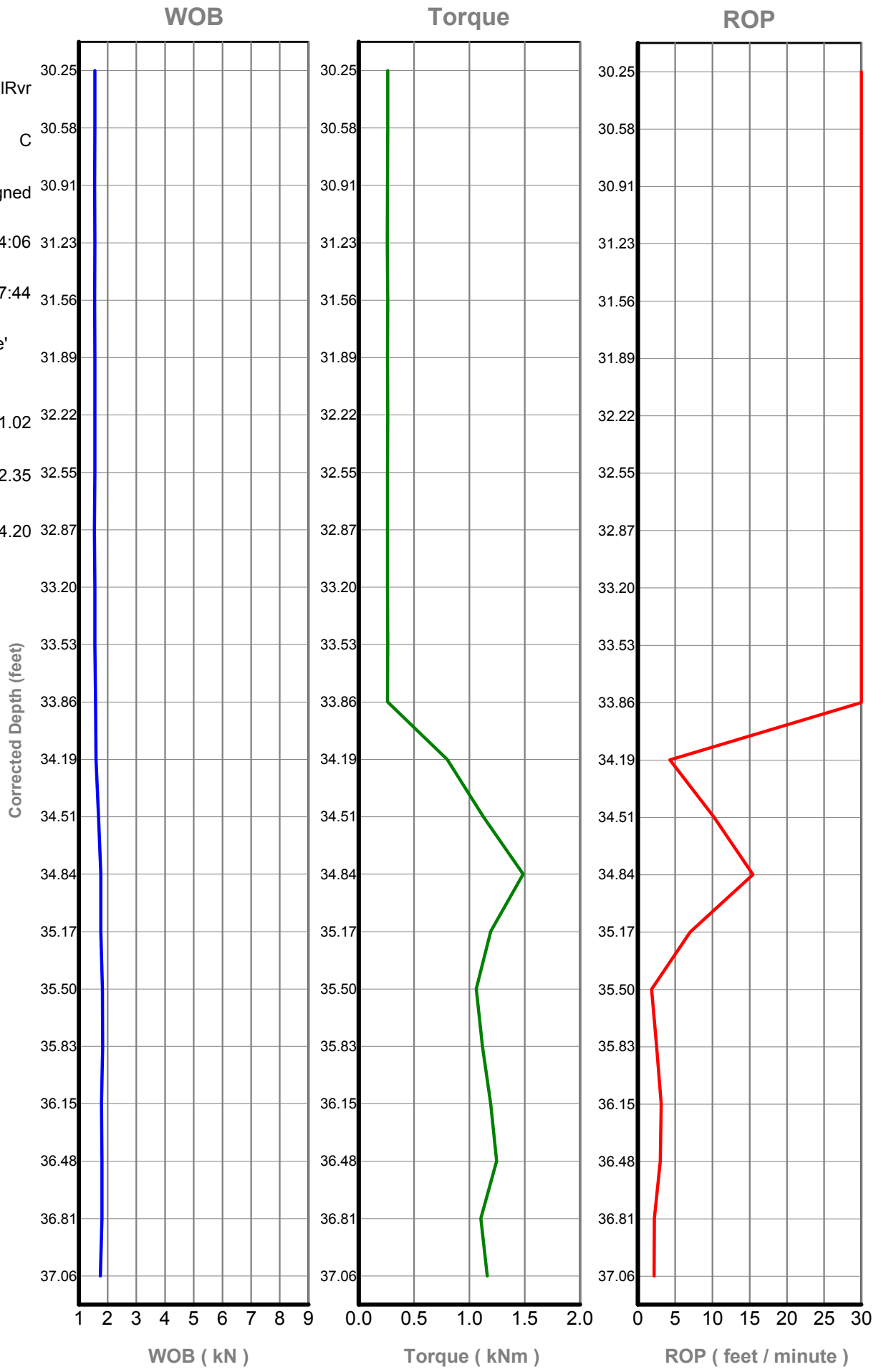
**End Date:**
4/18/2015 15:27:44

**Operator Note:**
'4.2 4.7 c Auto Complete'

**Northing:**
370,141.02

**Easting:**
255,552.35

**Tide (feet):**
4.20



## Hole: D90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/18/2015 9:23:11 | 31.50 | 30.30 | 629 | 2.12 | 0.13 | 34.4 |
| 4/18/2015 9:23:12 | 31.82 | 30.62 | 629 | 2.12 | 0.12 | 34.4 |
| 4/18/2015 9:23:12 | 32.15 | 30.95 | 638 | 2.12 | 0.12 | 34.9 |
| 4/18/2015 9:23:13 | 32.48 | 31.28 | 643 | 2.12 | 0.12 | 35.2 |
| 4/18/2015 9:23:14 | 32.81 | 31.61 | 619 | 2.12 | 0.12 | 33.8 |
| 4/18/2015 9:23:14 | 33.14 | 31.94 | 619 | 2.16 | 0.12 | 33.8 |
| 4/18/2015 9:23:15 | 33.46 | 32.26 | 642 | 2.13 | 0.11 | 35.1 |
| 4/18/2015 9:23:15 | 33.79 | 32.59 | 636 | 2.12 | 0.13 | 34.8 |
| 4/18/2015 9:23:16 | 34.12 | 32.92 | 640 | 2.28 | 0.13 | 35.0 |
| 4/18/2015 9:23:16 | 34.45 | 33.25 | 632 | 2.27 | 0.13 | 34.6 |
| 4/18/2015 9:23:17 | 34.78 | 33.58 | 632 | 2.25 | 0.12 | 34.6 |
| 4/18/2015 9:23:18 | 35.11 | 33.91 | 670 | 2.19 | 0.14 | 36.6 |
| 4/18/2015 9:23:18 | 35.43 | 34.23 | 666 | 2.10 | 0.12 | 36.4 |
| 4/18/2015 9:23:19 | 35.76 | 34.56 | 684 | 2.19 | 0.12 | 37.4 |
| 4/18/2015 9:23:19 | 36.09 | 34.89 | 684 | 2.25 | 0.12 | 37.4 |
| 4/18/2015 9:23:20 | 36.42 | 35.22 | 684 | 2.28 | 0.12 | 37.4 |
| 4/18/2015 9:23:20 | 36.75 | 35.55 | 713 | 2.29 | 0.12 | 39.0 |
| 4/18/2015 9:23:21 | 37.07 | 35.87 | 700 | 2.14 | 0.12 | 38.3 |
| 4/18/2015 9:23:21 | 37.40 | 36.20 | 691 | 2.11 | 0.12 | 37.8 |
| 4/18/2015 9:23:22 | 37.73 | 36.53 | 691 | 2.10 | 0.12 | 37.8 |
| 4/18/2015 9:23:22 | 38.06 | 36.86 | 688 | 2.11 | 0.12 | 37.6 |
| 4/18/2015 9:23:23 | 38.39 | 37.19 | 684 | 2.12 | 0.12 | 37.4 |
| 4/18/2015 9:23:23 | 38.71 | 37.51 | 657 | 2.12 | 0.12 | 35.9 |
| 4/18/2015 9:23:24 | 39.04 | 37.84 | 653 | 2.11 | 0.12 | 35.7 |
| 4/18/2015 9:23:24 | 39.37 | 38.17 | 659 | 2.11 | 0.12 | 36.0 |
| 4/18/2015 9:23:25 | 39.70 | 38.50 | 644 | 2.12 | 0.12 | 35.2 |
| 4/18/2015 9:23:25 | 40.03 | 38.83 | 627 | 2.12 | 0.12 | 34.3 |
| 4/18/2015 9:23:26 | 40.35 | 39.15 | 627 | 2.10 | 0.12 | 34.3 |
| 4/18/2015 9:23:26 | 40.68 | 39.48 | 643 | 2.12 | 0.12 | 35.2 |
| 4/18/2015 9:23:27 | 41.01 | 39.81 | 636 | 2.12 | 0.12 | 34.8 |
| 4/18/2015 9:23:27 | 41.34 | 40.14 | 636 | 2.12 | 0.12 | 34.8 |
| 4/18/2015 9:23:28 | 41.67 | 40.47 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:29 | 41.99 | 40.79 | 656 | 2.11 | 0.12 | 35.9 |
| 4/18/2015 9:23:29 | 42.32 | 41.12 | 638 | 2.12 | 0.12 | 34.9 |
| 4/18/2015 9:23:30 | 42.65 | 41.45 | 642 | 2.13 | 0.12 | 35.1 |
| 4/18/2015 9:23:31 | 42.98 | 41.78 | 642 | 2.13 | 0.12 | 35.1 |
| 4/18/2015 9:23:31 | 43.31 | 42.11 | 642 | 2.11 | 0.12 | 35.1 |
| 4/18/2015 9:23:32 | 43.64 | 42.44 | 645 | 2.12 | 0.12 | 35.3 |
| 4/18/2015 9:23:32 | 43.96 | 42.76 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:33 | 44.29 | 43.09 | 641 | 2.11 | 0.12 | 35.0 |
| 4/18/2015 9:23:33 | 44.62 | 43.42 | 638 | 2.12 | 0.12 | 34.9 |
| 4/18/2015 9:23:34 | 44.95 | 43.75 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:34 | 45.28 | 44.08 | 639 | 2.11 | 0.12 | 34.9 |
| 4/18/2015 9:23:35 | 45.60 | 44.40 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:35 | 45.93 | 44.73 | 639 | 2.11 | 0.12 | 34.9 |
| 4/18/2015 9:23:36 | 46.26 | 45.06 | 646 | 2.12 | 0.12 | 35.3 |
| 4/18/2015 9:23:36 | 46.59 | 45.39 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:37 | 46.92 | 45.72 | 642 | 2.12 | 0.12 | 35.1 |
| 4/18/2015 9:23:38 | 47.24 | 46.04 | 636 | 2.06 | 0.12 | 34.8 |
| 4/18/2015 9:23:38 | 47.57 | 46.37 | 631 | 2.35 | 0.12 | 34.5 |
| 4/18/2015 9:23:39 | 47.90 | 46.70 | 634 | 2.11 | 0.12 | 34.7 |
| 4/18/2015 9:23:40 | 48.23 | 47.03 | 631 | 2.11 | 0.12 | 34.5 |
| 4/18/2015 9:23:40 | 48.56 | 47.36 | 635 | 2.11 | 0.12 | 34.7 |
| 4/18/2015 9:23:41 | 48.88 | 47.68 | 632 | 2.10 | 0.12 | 34.6 |
| 4/18/2015 9:23:41 | 49.21 | 48.01 | 641 | 2.12 | 0.12 | 35.0 |
| 4/18/2015 9:23:42 | 49.54 | 48.34 | 624 | 2.12 | 0.12 | 34.1 |
| 4/18/2015 9:23:42 | 49.87 | 48.67 | 627 | 2.12 | 0.12 | 34.3 |
| 4/18/2015 9:23:43 | 50.20 | 49.00 | 611 | 2.12 | 0.12 | 33.4 |
| 4/18/2015 9:23:43 | 50.53 | 49.33 | 611 | 2.12 | 0.12 | 33.4 |
| 4/18/2015 9:23:44 | 50.85 | 49.65 | 618 | 2.11 | 0.12 | 33.8 |
| 4/18/2015 9:23:45 | 51.18 | 49.98 | 618 | 2.12 | 0.12 | 33.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/18/2015 | 9:23:45 | 51.51 | 50.31 | 616 | 2.12 | 0.12 | 33.7 |
| 4/18/2015 | 9:23:46 | 51.84 | 50.64 | 623 | 2.12 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:46 | 52.17 | 50.97 | 622 | 2.14 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:47 | 52.49 | 51.29 | 622 | 2.12 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:47 | 52.82 | 51.62 | 622 | 2.13 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:48 | 53.15 | 51.95 | 621 | 2.12 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:48 | 53.48 | 52.28 | 631 | 2.12 | 0.12 | 34.5 |
| 4/18/2015 | 9:23:49 | 53.81 | 52.61 | 622 | 2.12 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:50 | 54.13 | 52.93 | 622 | 2.12 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:51 | 54.46 | 53.26 | 622 | 2.14 | 0.12 | 34.0 |
| 4/18/2015 | 9:23:51 | 54.79 | 53.59 | 598 | 2.19 | 0.11 | 32.7 |
| 4/18/2015 | 9:23:53 | 55.12 | 53.92 | 382 | 2.26 | 0.11 | 20.9 |
| 4/18/2015 | 9:23:54 | 55.45 | 54.25 | 224 | 2.19 | 0.12 | 12.2 |
| 4/18/2015 | 9:23:55 | 55.77 | 54.57 | 274 | 2.19 | 0.12 | 15.0 |
| 4/18/2015 | 9:23:56 | 56.10 | 54.90 | 332 | 2.24 | 0.12 | 18.1 |
| 4/18/2015 | 9:23:57 | 56.43 | 55.23 | 362 | 2.17 | 0.12 | 19.8 |
| 4/18/2015 | 9:24:10 | 56.75 | 55.55 | 0 | 1.32 | 0.25 | 0.0 |

## D90 - Summary

**Pattern Number:**
AreaD_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/18/2015 9:20:29

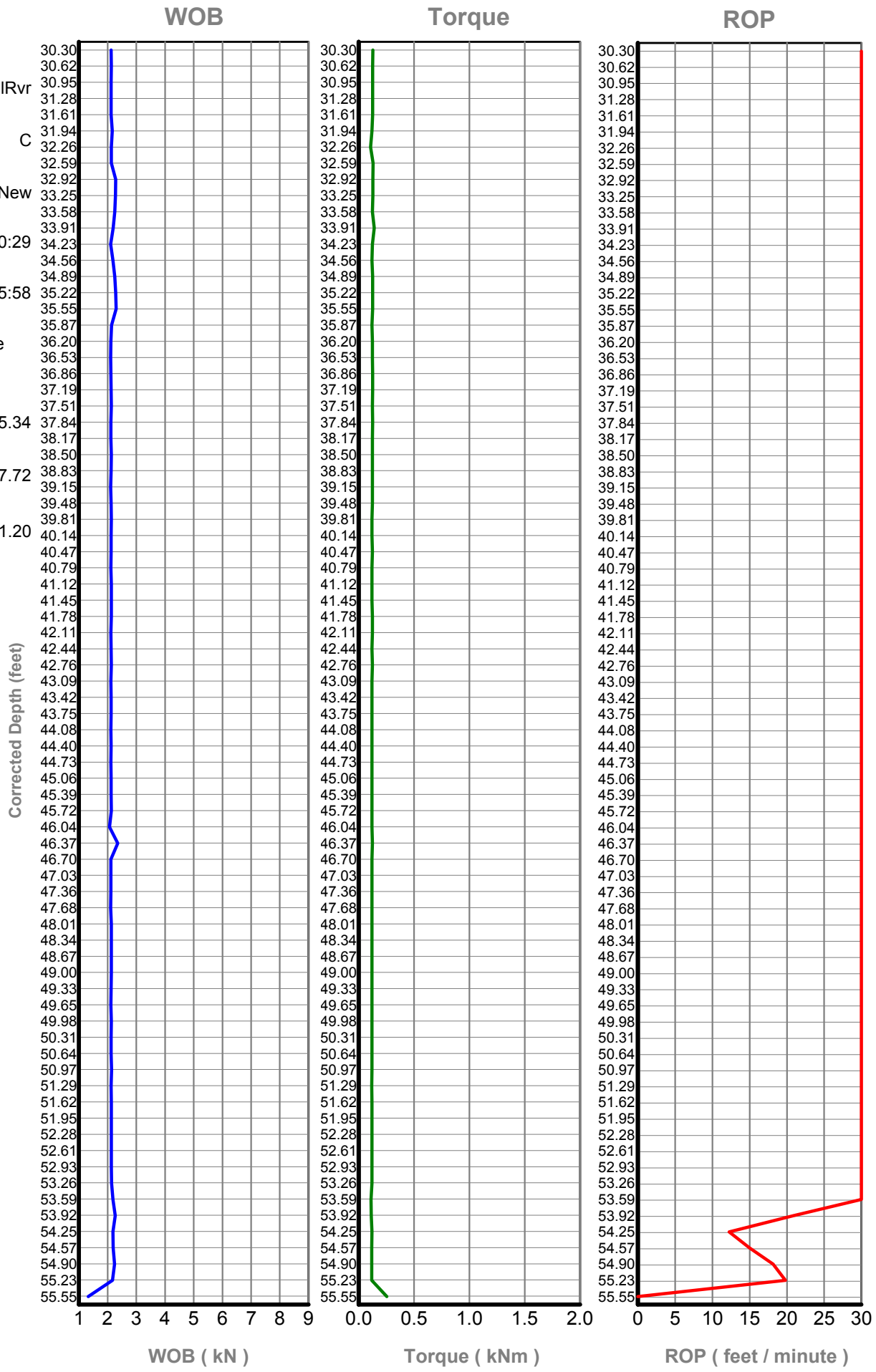
**End Date:**
4/18/2015 9:25:58

**Operator Note:**
'1.2 1.1 c Auto Complete

**Northing:**
369,895.34

**Easting:**
255,907.72

**Tide (feet):**
1.20



## Hole: E1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 5:25:24 | 36.09 | 30.29 | 314 | 1.50 | 0.13 | 17.2 |
| 4/21/2015 5:25:25 | 36.42 | 30.62 | 323 | 1.53 | 0.13 | 17.7 |
| 4/21/2015 5:25:26 | 36.75 | 30.95 | 321 | 1.51 | 0.13 | 17.5 |
| 4/21/2015 5:25:27 | 37.07 | 31.27 | 318 | 1.49 | 0.14 | 17.4 |
| 4/21/2015 5:25:28 | 37.40 | 31.60 | 314 | 1.50 | 0.13 | 17.2 |
| 4/21/2015 5:25:29 | 37.73 | 31.93 | 318 | 1.52 | 0.14 | 17.4 |
| 4/21/2015 5:25:30 | 38.06 | 32.26 | 323 | 1.56 | 0.13 | 17.7 |
| 4/21/2015 5:26:37 | 38.39 | 32.59 | 31 | 1.61 | 1.08 | 1.7 |
| 4/21/2015 5:26:38 | 38.71 | 32.91 | 164 | 1.59 | 1.12 | 8.9 |
| 4/21/2015 5:26:49 | 39.04 | 33.24 | 103 | 1.57 | 1.15 | 5.6 |
| 4/21/2015 5:26:53 | 39.37 | 33.57 | 24 | 1.57 | 1.16 | 1.3 |
| 4/21/2015 5:26:55 | 39.70 | 33.90 | 169 | 1.57 | 1.28 | 9.2 |
| 4/21/2015 5:26:56 | 40.03 | 34.23 | 208 | 1.57 | 1.04 | 11.4 |
| 4/21/2015 5:27:11 | 40.35 | 34.55 | 0 | 1.55 | 1.03 | 0.0 |
| 4/21/2015 5:27:13 | 40.68 | 34.88 | 125 | 1.55 | 1.07 | 6.8 |
| 4/21/2015 5:27:14 | 41.01 | 35.21 | 225 | 1.46 | 0.86 | 12.3 |
| 4/21/2015 5:27:25 | 41.34 | 35.54 | 59 | 1.49 | 0.83 | 3.2 |
| 4/21/2015 5:27:27 | 41.67 | 35.87 | 211 | 1.58 | 1.10 | 11.6 |
| 4/21/2015 5:27:29 | 41.99 | 36.19 | 150 | 1.63 | 0.97 | 8.2 |
| 4/21/2015 5:27:47 | 42.32 | 36.52 | 78 | 1.62 | 1.05 | 4.3 |
| 4/21/2015 5:27:50 | 42.65 | 36.85 | 159 | 1.62 | 1.09 | 8.7 |
| 4/21/2015 5:28:09 | 42.98 | 37.18 | 49 | 1.59 | 1.16 | 2.7 |
| 4/21/2015 5:28:12 | 43.31 | 37.51 | 169 | 1.66 | 1.17 | 9.2 |
| 4/21/2015 5:28:25 | 43.64 | 37.84 | 52 | 1.61 | 1.12 | 2.9 |
| 4/21/2015 5:29:02 | 43.96 | 38.16 | 0 | 1.60 | 1.02 | 0.0 |
| 4/21/2015 5:29:05 | 44.29 | 38.49 | 127 | 1.57 | 1.09 | 6.9 |
| 4/21/2015 5:29:06 | 44.62 | 38.82 | 195 | 1.28 | 0.81 | 10.6 |
| 4/21/2015 5:29:15 | 44.95 | 39.15 | 94 | 1.58 | 1.25 | 5.2 |
| 4/21/2015 5:29:17 | 45.28 | 39.48 | 188 | 1.62 | 1.00 | 10.3 |
| 4/21/2015 5:29:31 | 45.60 | 39.80 | 14 | 1.59 | 1.44 | 0.8 |
| 4/21/2015 5:29:32 | 45.93 | 40.13 | 138 | 1.59 | 1.33 | 7.6 |
| 4/21/2015 5:29:34 | 46.26 | 40.46 | 198 | 1.60 | 0.90 | 10.8 |
| 4/21/2015 5:30:23 | 46.59 | 40.79 | 29 | 1.60 | 1.11 | 1.6 |
| 4/21/2015 5:30:26 | 46.92 | 41.12 | 144 | 1.62 | 1.02 | 7.9 |
| 4/21/2015 5:30:28 | 47.24 | 41.44 | 147 | 1.64 | 1.08 | 8.1 |
| 4/21/2015 5:31:13 | 47.57 | 41.77 | 0 | 1.59 | 1.11 | 0.0 |
| 4/21/2015 5:31:15 | 47.90 | 42.10 | 153 | 1.64 | 1.13 | 8.4 |
| 4/21/2015 5:31:30 | 48.23 | 42.43 | 61 | 1.60 | 1.03 | 3.3 |
| 4/21/2015 5:31:33 | 48.56 | 42.76 | 142 | 1.65 | 1.47 | 7.7 |
| 4/21/2015 5:32:03 | 48.88 | 43.08 | 49 | 1.59 | 1.17 | 2.7 |
| 4/21/2015 5:32:05 | 49.21 | 43.41 | 159 | 1.64 | 1.27 | 8.7 |
| 4/21/2015 5:32:07 | 49.54 | 43.74 | 162 | 1.63 | 1.20 | 8.9 |
| 4/21/2015 5:32:09 | 49.87 | 44.07 | 182 | 1.58 | 0.84 | 10.0 |
| 4/21/2015 5:33:05 | 50.20 | 44.40 | 48 | 1.55 | 0.91 | 2.7 |
| 4/21/2015 5:33:07 | 50.53 | 44.73 | 178 | 1.57 | 0.86 | 9.8 |
| 4/21/2015 5:33:08 | 50.85 | 45.05 | 200 | 1.55 | 0.82 | 10.9 |
| 4/21/2015 5:33:10 | 51.18 | 45.38 | 167 | 1.53 | 0.83 | 9.1 |
| 4/21/2015 5:33:12 | 51.51 | 45.71 | 261 | 1.55 | 0.85 | 14.3 |
| 4/21/2015 5:33:15 | 51.84 | 46.04 | 102 | 1.57 | 1.00 | 5.6 |
| 4/21/2015 5:33:18 | 52.17 | 46.37 | 123 | 1.62 | 1.11 | 6.7 |
| 4/21/2015 5:33:28 | 52.49 | 46.69 | 19 | 1.62 | 1.12 | 1.1 |
| 4/21/2015 5:33:32 | 52.82 | 47.02 | 102 | 1.67 | 1.09 | 5.6 |
| 4/21/2015 5:33:36 | 53.15 | 47.35 | 107 | 1.68 | 1.13 | 5.9 |
| 4/21/2015 5:33:39 | 53.48 | 47.68 | 111 | 1.68 | 1.12 | 6.1 |
| 4/21/2015 5:33:43 | 53.81 | 48.01 | 89 | 1.68 | 1.08 | 4.9 |
| 4/21/2015 5:33:47 | 54.13 | 48.33 | 84 | 1.70 | 1.17 | 4.6 |
| 4/21/2015 5:33:51 | 54.46 | 48.66 | 85 | 1.68 | 1.08 | 4.7 |
| 4/21/2015 5:33:55 | 54.79 | 48.99 | 100 | 1.68 | 1.09 | 5.5 |
| 4/21/2015 5:34:09 | 55.12 | 49.32 | 0 | 1.61 | 1.15 | 0.0 |
| 4/21/2015 5:34:15 | 55.45 | 49.65 | 78 | 1.66 | 1.10 | 4.3 |
| 4/21/2015 5:34:19 | 55.77 | 49.97 | 80 | 1.68 | 1.12 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 5:34:23 | 56.10 | 50.30 | 84 | 1.69 | 1.10 | 4.6 |
| 4/21/2015 | 5:34:28 | 56.43 | 50.63 | 78 | 1.69 | 1.08 | 4.3 |
| 4/21/2015 | 5:34:32 | 56.76 | 50.96 | 86 | 1.68 | 1.10 | 4.7 |
| 4/21/2015 | 5:34:37 | 57.09 | 51.29 | 78 | 1.67 | 1.10 | 4.3 |
| 4/21/2015 | 5:34:42 | 57.41 | 51.61 | 73 | 1.68 | 1.12 | 4.0 |
| 4/21/2015 | 5:34:47 | 57.74 | 51.94 | 73 | 1.69 | 1.12 | 4.0 |
| 4/21/2015 | 5:34:51 | 58.07 | 52.27 | 76 | 1.68 | 1.16 | 4.2 |
| 4/21/2015 | 5:34:57 | 58.40 | 52.60 | 66 | 1.68 | 1.21 | 3.6 |
| 4/21/2015 | 5:35:02 | 58.73 | 52.93 | 65 | 1.70 | 1.13 | 3.6 |
| 4/21/2015 | 5:35:07 | 59.06 | 53.26 | 71 | 1.67 | 1.11 | 3.9 |
| 4/21/2015 | 5:35:08 | 59.14 | 53.34 | 69 | 1.66 | 1.12 | 3.8 |

## E1 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 5:22:27

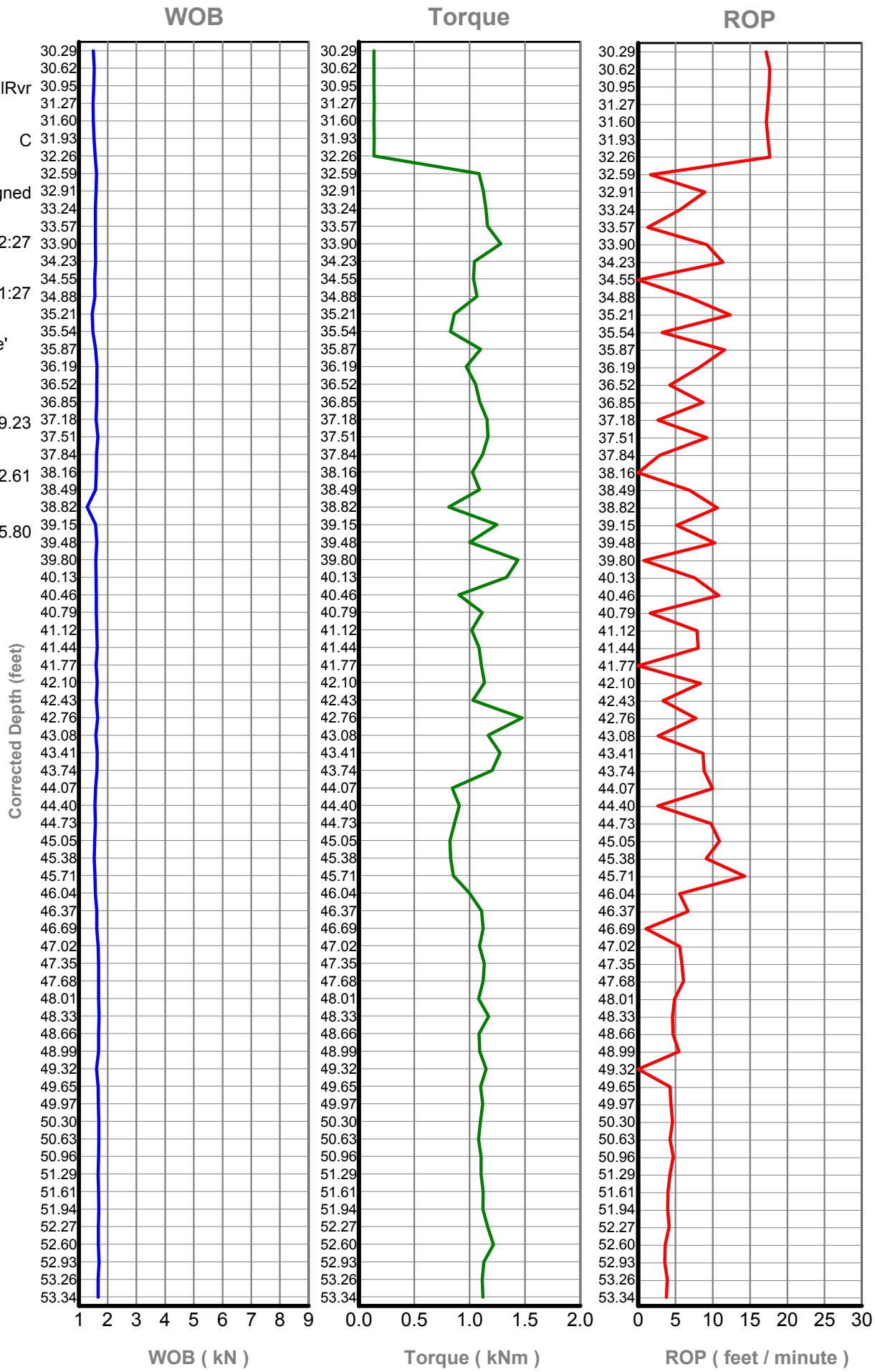
**End Date:**
4/21/2015 5:41:27

**Operator Note:**
'5.8 6.1 c Auto Complete'

**Northing:**
368,749.23

**Easting:**
252,872.61

**Tide (feet):**
5.80



## Hole: E10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:31:03 | 36.42 | 30.12 | 628 | 1.62 | 0.26 | 34.3 |
| 4/20/2015 12:31:03 | 36.75 | 30.45 | 632 | 1.66 | 0.26 | 34.5 |
| 4/20/2015 12:31:04 | 37.07 | 30.77 | 625 | 1.68 | 0.26 | 34.2 |
| 4/20/2015 12:31:04 | 37.40 | 31.10 | 619 | 1.75 | 0.26 | 33.9 |
| 4/20/2015 12:31:05 | 37.73 | 31.43 | 613 | 1.52 | 0.26 | 33.5 |
| 4/20/2015 12:31:06 | 38.06 | 31.76 | 597 | 1.73 | 0.26 | 32.6 |
| 4/20/2015 12:31:06 | 38.39 | 32.09 | 604 | 1.68 | 0.26 | 33.0 |
| 4/20/2015 12:31:07 | 38.71 | 32.41 | 604 | 1.70 | 0.26 | 33.0 |
| 4/20/2015 12:31:07 | 39.04 | 32.74 | 609 | 1.60 | 0.26 | 33.3 |
| 4/20/2015 12:31:08 | 39.37 | 33.07 | 603 | 1.82 | 0.26 | 33.0 |
| 4/20/2015 12:32:19 | 39.70 | 33.40 | 50 | 1.49 | 0.86 | 2.7 |
| 4/20/2015 12:32:20 | 40.03 | 33.73 | 167 | 1.73 | 1.12 | 9.1 |
| 4/20/2015 12:32:22 | 40.35 | 34.05 | 188 | 1.79 | 1.19 | 10.3 |
| 4/20/2015 12:32:28 | 40.68 | 34.38 | 63 | 1.75 | 1.24 | 3.4 |
| 4/20/2015 12:32:31 | 41.01 | 34.71 | 98 | 1.75 | 1.07 | 5.4 |
| 4/20/2015 12:32:34 | 41.34 | 35.04 | 142 | 1.83 | 1.39 | 7.7 |
| 4/20/2015 12:32:35 | 41.67 | 35.37 | 133 | 1.76 | 1.26 | 7.3 |
| 4/20/2015 12:32:36 | 41.99 | 35.69 | 251 | 1.74 | 1.19 | 13.7 |
| 4/20/2015 12:32:38 | 42.32 | 36.02 | 269 | 1.71 | 1.11 | 14.7 |
| 4/20/2015 12:32:39 | 42.65 | 36.35 | 269 | 1.61 | 0.94 | 14.7 |
| 4/20/2015 12:32:40 | 42.98 | 36.68 | 249 | 1.79 | 1.20 | 13.6 |
| 4/20/2015 12:33:19 | 43.31 | 37.01 | 3 | 1.77 | 1.14 | 0.2 |
| 4/20/2015 12:33:20 | 43.64 | 37.34 | 146 | 1.79 | 1.22 | 8.0 |
| 4/20/2015 12:33:26 | 43.96 | 37.66 | 74 | 1.83 | 1.12 | 4.0 |
| 4/20/2015 12:33:30 | 44.29 | 37.99 | 35 | 1.90 | 1.10 | 1.9 |
| 4/20/2015 12:33:41 | 44.62 | 38.32 | 35 | 1.90 | 1.18 | 1.9 |
| 4/20/2015 12:33:49 | 44.95 | 38.65 | 29 | 1.90 | 1.02 | 1.6 |
| 4/20/2015 12:33:58 | 45.28 | 38.98 | 51 | 1.91 | 1.20 | 2.8 |
| 4/20/2015 12:34:06 | 45.60 | 39.30 | 46 | 1.91 | 1.19 | 2.5 |
| 4/20/2015 12:34:14 | 45.93 | 39.63 | 52 | 1.89 | 1.12 | 2.8 |
| 4/20/2015 12:34:18 | 46.26 | 39.96 | 112 | 1.86 | 1.16 | 6.1 |
| 4/20/2015 12:34:27 | 46.57 | 40.27 | 35 | 1.89 | 1.14 | 1.9 |

## E10 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/20/2015 12:29:01

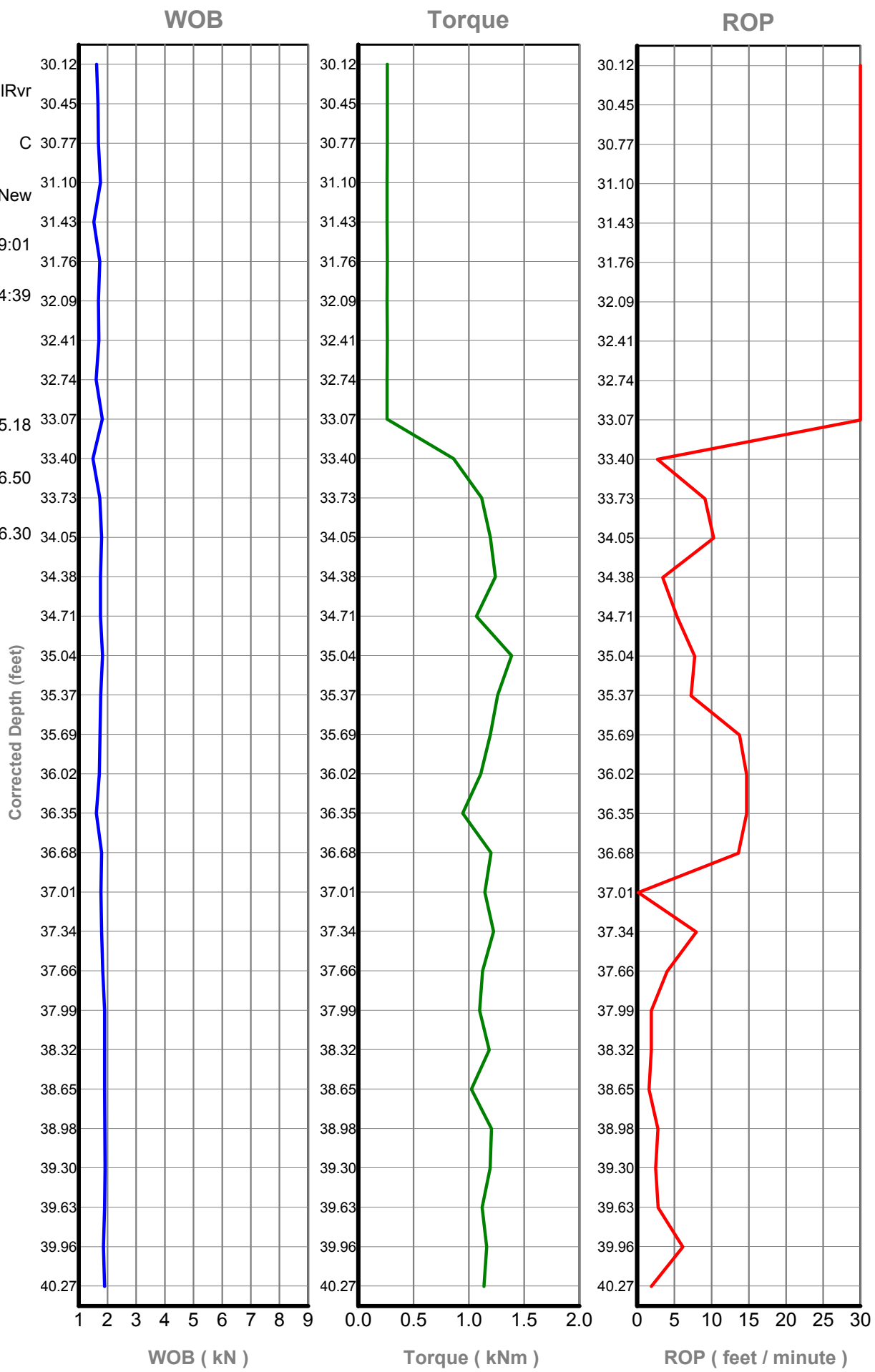
**End Date:**
4/20/2015 12:54:39

**Operator Note:**
'6.3 5.9 C Auto Complete'

**Northing:**
369,185.18

**Easting:**
253,416.50

**Tide (feet):**
6.30



## Hole: E100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:33:20 | 31.82 | 30.22 | 1,016 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 9:33:21 | 32.15 | 30.55 | 1,016 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 9:33:21 | 32.48 | 30.88 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:33:21 | 32.81 | 31.21 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:33:22 | 33.14 | 31.54 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:33:22 | 33.46 | 31.86 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 9:33:22 | 33.79 | 32.19 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:33:23 | 34.12 | 32.52 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:33:23 | 34.45 | 32.85 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:33:23 | 34.78 | 33.18 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:33:24 | 35.11 | 33.51 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:33:24 | 35.43 | 33.83 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:33:25 | 35.76 | 34.16 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:33:25 | 36.09 | 34.49 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:33:25 | 36.42 | 34.82 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 9:33:26 | 36.75 | 35.15 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 9:33:26 | 37.07 | 35.47 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 9:33:26 | 37.40 | 35.80 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 9:33:27 | 37.73 | 36.13 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:33:27 | 38.06 | 36.46 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:33:28 | 38.39 | 36.79 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:33:28 | 38.71 | 37.11 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:28 | 39.04 | 37.44 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:33:29 | 39.37 | 37.77 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:33:29 | 39.70 | 38.10 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 9:33:29 | 40.03 | 38.43 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 9:33:30 | 40.35 | 38.75 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 9:33:30 | 40.68 | 39.08 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 9:33:30 | 41.01 | 39.41 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 9:33:31 | 41.34 | 39.74 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 9:33:31 | 41.67 | 40.07 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 9:33:31 | 41.99 | 40.39 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 9:33:32 | 42.32 | 40.72 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 9:33:32 | 42.65 | 41.05 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 9:33:33 | 42.98 | 41.38 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 9:33:33 | 43.31 | 41.71 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 9:33:33 | 43.64 | 42.04 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 9:33:34 | 43.96 | 42.36 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 9:33:34 | 44.29 | 42.69 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 9:33:34 | 44.62 | 43.02 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:33:35 | 44.95 | 43.35 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:33:35 | 45.28 | 43.68 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:33:36 | 45.60 | 44.00 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:36 | 45.93 | 44.33 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:36 | 46.26 | 44.66 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:37 | 46.59 | 44.99 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:37 | 46.92 | 45.32 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:38 | 47.24 | 45.64 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:33:38 | 47.57 | 45.97 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:33:38 | 47.90 | 46.30 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:33:39 | 48.23 | 46.63 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:33:39 | 48.56 | 46.96 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:33:39 | 48.88 | 47.28 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 9:33:40 | 49.21 | 47.61 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 9:33:56 | 49.54 | 47.94 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 9:34:02 | 49.87 | 48.27 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 9:34:03 | 50.20 | 48.60 | 178 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 9:34:04 | 50.53 | 48.93 | 347 | 1.73 | 0.21 | 19.0 |
| 4/21/2015 9:34:06 | 50.85 | 49.25 | 216 | 1.73 | 0.21 | 11.8 |
| 4/21/2015 9:34:13 | 51.18 | 49.58 | 26 | 1.73 | 0.21 | 1.4 |
| 4/21/2015 9:34:16 | 51.51 | 49.91 | 151 | 1.73 | 0.21 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:34:17 | 51.84 | 50.24 | 191 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 | 9:34:17 | 52.17 | 50.57 | 251 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 | 9:34:18 | 52.49 | 50.89 | 366 | 1.73 | 0.21 | 20.0 |
| 4/21/2015 | 9:34:19 | 52.82 | 51.22 | 451 | 1.73 | 0.21 | 24.7 |
| 4/21/2015 | 9:34:20 | 53.15 | 51.55 | 451 | 1.73 | 0.21 | 24.7 |
| 4/21/2015 | 9:34:20 | 53.48 | 51.88 | 468 | 1.73 | 0.21 | 25.6 |
| 4/21/2015 | 9:34:23 | 53.81 | 52.21 | 207 | 1.73 | 0.21 | 11.3 |
| 4/21/2015 | 9:34:28 | 54.13 | 52.53 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 9:35:02 | 54.46 | 52.86 | 26 | 1.73 | 0.21 | 1.4 |
| 4/21/2015 | 9:35:05 | 54.79 | 53.19 | 118 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 | 9:35:09 | 55.12 | 53.52 | 86 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 9:35:13 | 55.45 | 53.85 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 | 9:35:18 | 55.77 | 54.17 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 9:35:27 | 56.10 | 54.50 | 41 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 | 9:35:36 | 56.43 | 54.83 | 40 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 | 9:35:41 | 56.68 | 55.08 | 52 | 1.73 | 0.21 | 2.8 |

## E100 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:31:47

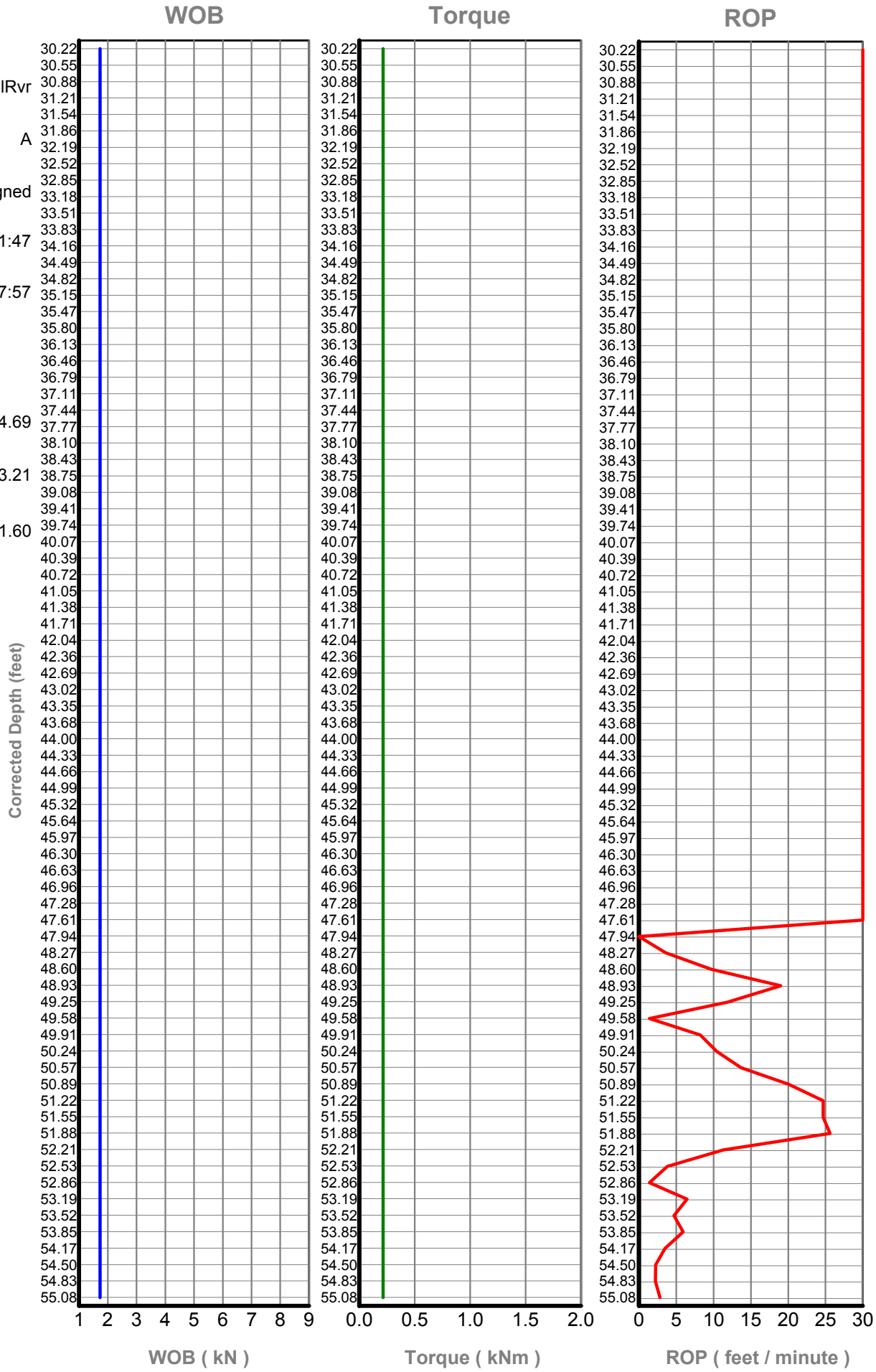
**End Date:**
4/21/2015 9:37:57

**Operator Note:**
'1.6 1.7 b Rock'

**Northing:**
368,374.69

**Easting:**
253,003.21

**Tide (feet):**
1.60



## Hole: E101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:27:39 | 31.82 | 30.12 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:27:39 | 32.15 | 30.45 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:27:40 | 32.48 | 30.78 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:27:40 | 32.81 | 31.11 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:27:40 | 33.14 | 31.44 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:27:41 | 33.46 | 31.76 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:27:41 | 33.79 | 32.09 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:27:41 | 34.12 | 32.42 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:27:42 | 34.45 | 32.75 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 9:27:42 | 34.78 | 33.08 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 9:27:42 | 35.11 | 33.41 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:27:43 | 35.43 | 33.73 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 9:27:43 | 35.76 | 34.06 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:27:44 | 36.09 | 34.39 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:27:44 | 36.42 | 34.72 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 9:27:44 | 36.75 | 35.05 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 9:27:45 | 37.07 | 35.37 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 9:27:45 | 37.40 | 35.70 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 9:27:45 | 37.73 | 36.03 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 9:27:46 | 38.06 | 36.36 | 975 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 9:27:47 | 38.39 | 36.69 | 975 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 9:27:47 | 38.71 | 37.01 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 9:27:47 | 39.04 | 37.34 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:27:48 | 39.37 | 37.67 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 9:27:48 | 39.70 | 38.00 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 9:27:48 | 40.03 | 38.33 | 998 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 9:27:49 | 40.35 | 38.65 | 998 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 9:27:49 | 40.68 | 38.98 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 9:27:49 | 41.01 | 39.31 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:27:50 | 41.34 | 39.64 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:27:50 | 41.67 | 39.97 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:27:50 | 41.99 | 40.29 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:27:51 | 42.32 | 40.62 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:27:51 | 42.65 | 40.95 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 9:27:51 | 42.98 | 41.28 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 9:27:52 | 43.31 | 41.61 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 9:27:52 | 43.64 | 41.94 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 9:27:52 | 43.96 | 42.26 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:27:53 | 44.29 | 42.59 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:27:53 | 44.62 | 42.92 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:27:53 | 44.95 | 43.25 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:27:54 | 45.28 | 43.58 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:27:54 | 45.60 | 43.90 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:27:54 | 45.93 | 44.23 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:27:55 | 46.26 | 44.56 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:27:55 | 46.59 | 44.89 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 9:27:55 | 46.92 | 45.22 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:27:56 | 47.24 | 45.54 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:27:56 | 47.57 | 45.87 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:27:56 | 47.90 | 46.20 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 9:27:57 | 48.23 | 46.53 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 9:27:57 | 48.56 | 46.86 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 9:27:57 | 48.88 | 47.18 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 9:27:58 | 49.21 | 47.51 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 9:27:58 | 49.54 | 47.84 | 1,043 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:28:12 | 49.87 | 48.17 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 9:28:18 | 50.20 | 48.50 | 105 | 1.73 | 0.21 | 5.7 |
| 4/21/2015 9:28:19 | 50.53 | 48.83 | 241 | 1.73 | 0.21 | 13.2 |
| 4/21/2015 9:28:20 | 50.85 | 49.15 | 329 | 1.73 | 0.21 | 18.0 |
| 4/21/2015 9:28:21 | 51.18 | 49.48 | 352 | 1.73 | 0.21 | 19.2 |
| 4/21/2015 9:28:22 | 51.51 | 49.81 | 375 | 1.73 | 0.21 | 20.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:28:43 | 51.84 | 50.14 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 9:28:44 | 52.17 | 50.47 | 48 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 | 9:28:46 | 52.49 | 50.79 | 220 | 1.73 | 0.21 | 12.0 |
| 4/21/2015 | 9:28:47 | 52.82 | 51.12 | 288 | 1.73 | 0.21 | 15.7 |
| 4/21/2015 | 9:28:48 | 53.15 | 51.45 | 285 | 1.73 | 0.21 | 15.6 |
| 4/21/2015 | 9:28:50 | 53.48 | 51.78 | 186 | 1.73 | 0.21 | 10.2 |
| 4/21/2015 | 9:28:53 | 53.81 | 52.11 | 128 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 9:28:59 | 54.13 | 52.43 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 9:29:03 | 54.46 | 52.76 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 9:29:07 | 54.79 | 53.09 | 99 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 | 9:29:11 | 55.12 | 53.42 | 104 | 1.73 | 0.21 | 5.7 |
| 4/21/2015 | 9:29:15 | 55.45 | 53.75 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 9:29:20 | 55.77 | 54.07 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 9:29:24 | 56.10 | 54.40 | 91 | 1.73 | 0.21 | 5.0 |
| 4/21/2015 | 9:29:28 | 56.43 | 54.73 | 81 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 9:29:33 | 56.76 | 55.06 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 9:29:34 | 56.82 | 55.12 | 73 | 1.73 | 0.21 | 4.0 |

## E101 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:25:41

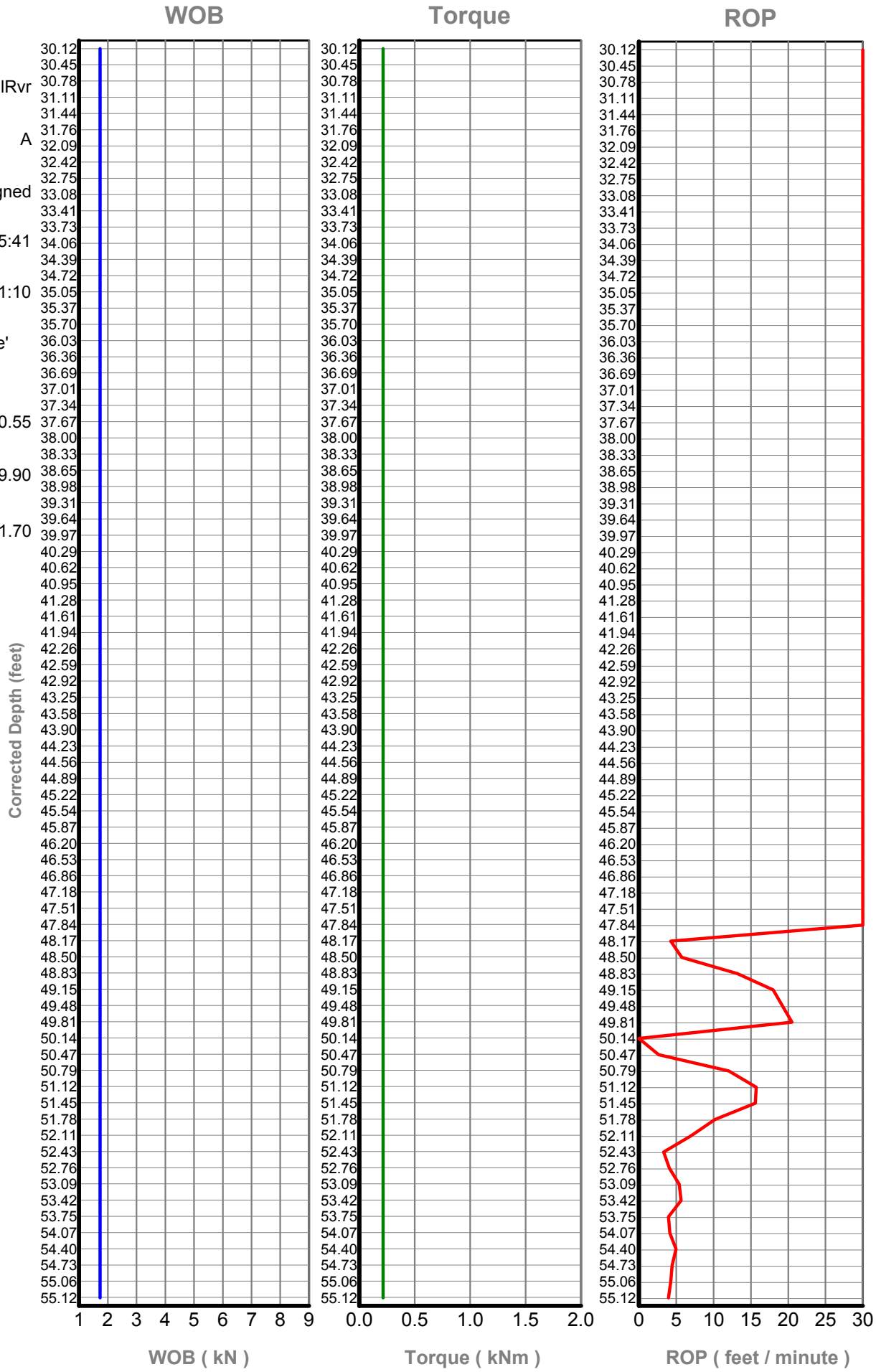
**End Date:**
4/21/2015 9:31:10

**Operator Note:**
'1.7 1.8 b Auto Complete'

**Northing:**
368,410.55

**Easting:**
253,049.90

**Tide (feet):**
1.70



## Hole: E102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:30:56 | 31.82 | 30.22 | 287 | 1.31 | 0.26 | 15.7 |
| 4/21/2015 9:30:57 | 32.15 | 30.55 | 284 | 1.28 | 0.26 | 15.5 |
| 4/21/2015 9:30:59 | 32.48 | 30.88 | 283 | 1.25 | 0.26 | 15.5 |
| 4/21/2015 9:31:00 | 32.81 | 31.21 | 286 | 1.30 | 0.26 | 15.7 |
| 4/21/2015 9:31:01 | 33.14 | 31.54 | 283 | 1.33 | 0.26 | 15.5 |
| 4/21/2015 9:31:03 | 33.46 | 31.86 | 283 | 1.32 | 0.26 | 15.5 |
| 4/21/2015 9:31:04 | 33.79 | 32.19 | 283 | 1.25 | 0.26 | 15.5 |
| 4/21/2015 9:31:05 | 34.12 | 32.52 | 286 | 1.29 | 0.26 | 15.6 |
| 4/21/2015 9:31:06 | 34.45 | 32.85 | 278 | 1.28 | 0.26 | 15.2 |
| 4/21/2015 9:31:07 | 34.78 | 33.18 | 283 | 1.28 | 0.26 | 15.5 |
| 4/21/2015 9:31:09 | 35.11 | 33.51 | 283 | 1.27 | 0.25 | 15.5 |
| 4/21/2015 9:31:10 | 35.43 | 33.83 | 283 | 1.30 | 0.27 | 15.5 |
| 4/21/2015 9:31:12 | 35.76 | 34.16 | 283 | 1.30 | 0.25 | 15.5 |
| 4/21/2015 9:31:13 | 36.09 | 34.49 | 283 | 1.28 | 0.26 | 15.5 |
| 4/21/2015 9:31:14 | 36.42 | 34.82 | 283 | 1.35 | 0.26 | 15.5 |
| 4/21/2015 9:31:15 | 36.75 | 35.15 | 283 | 1.31 | 0.26 | 15.5 |
| 4/21/2015 9:31:16 | 37.07 | 35.47 | 286 | 1.29 | 0.26 | 15.7 |
| 4/21/2015 9:31:18 | 37.40 | 35.80 | 288 | 1.25 | 0.25 | 15.7 |
| 4/21/2015 9:31:19 | 37.73 | 36.13 | 284 | 1.28 | 0.26 | 15.5 |
| 4/21/2015 9:31:21 | 38.06 | 36.46 | 284 | 1.34 | 0.25 | 15.5 |
| 4/21/2015 9:31:22 | 38.39 | 36.79 | 288 | 1.30 | 0.25 | 15.7 |
| 4/21/2015 9:31:23 | 38.71 | 37.11 | 283 | 1.27 | 0.25 | 15.5 |
| 4/21/2015 9:31:24 | 39.04 | 37.44 | 284 | 1.28 | 0.26 | 15.5 |
| 4/21/2015 9:31:25 | 39.37 | 37.77 | 282 | 1.33 | 0.26 | 15.4 |
| 4/21/2015 9:31:27 | 39.70 | 38.10 | 283 | 1.26 | 0.25 | 15.5 |
| 4/21/2015 9:31:28 | 40.03 | 38.43 | 286 | 1.26 | 0.25 | 15.6 |
| 4/21/2015 9:31:29 | 40.35 | 38.75 | 280 | 1.26 | 0.25 | 15.3 |
| 4/21/2015 9:31:31 | 40.68 | 39.08 | 284 | 1.33 | 0.25 | 15.5 |
| 4/21/2015 9:31:32 | 41.01 | 39.41 | 276 | 1.28 | 0.25 | 15.1 |
| 4/21/2015 9:31:33 | 41.34 | 39.74 | 277 | 1.31 | 0.25 | 15.2 |
| 4/21/2015 9:31:34 | 41.67 | 40.07 | 277 | 1.30 | 0.25 | 15.2 |
| 4/21/2015 9:31:36 | 41.99 | 40.39 | 274 | 1.32 | 0.25 | 15.0 |
| 4/21/2015 9:31:37 | 42.32 | 40.72 | 278 | 1.30 | 0.25 | 15.2 |
| 4/21/2015 9:31:38 | 42.65 | 41.05 | 273 | 1.30 | 0.25 | 15.0 |
| 4/21/2015 9:31:39 | 42.98 | 41.38 | 286 | 1.22 | 0.25 | 15.6 |
| 4/21/2015 9:31:40 | 43.31 | 41.71 | 284 | 1.28 | 0.25 | 15.6 |
| 4/21/2015 9:31:42 | 43.64 | 42.04 | 276 | 1.28 | 0.25 | 15.1 |
| 4/21/2015 9:31:43 | 43.96 | 42.36 | 285 | 1.32 | 0.25 | 15.6 |
| 4/21/2015 9:31:45 | 44.29 | 42.69 | 289 | 1.28 | 0.25 | 15.8 |
| 4/21/2015 9:31:46 | 44.62 | 43.02 | 286 | 1.28 | 0.25 | 15.6 |
| 4/21/2015 9:31:47 | 44.95 | 43.35 | 281 | 1.28 | 0.25 | 15.4 |
| 4/21/2015 9:31:48 | 45.28 | 43.68 | 282 | 1.29 | 0.25 | 15.4 |
| 4/21/2015 9:31:49 | 45.60 | 44.00 | 283 | 1.28 | 0.25 | 15.5 |
| 4/21/2015 9:31:51 | 45.93 | 44.33 | 280 | 1.27 | 0.25 | 15.3 |
| 4/21/2015 9:31:52 | 46.26 | 44.66 | 280 | 1.32 | 0.25 | 15.3 |
| 4/21/2015 9:31:54 | 46.59 | 44.99 | 283 | 1.27 | 0.25 | 15.5 |
| 4/21/2015 9:31:55 | 46.92 | 45.32 | 283 | 1.24 | 0.25 | 15.5 |
| 4/21/2015 9:31:56 | 47.24 | 45.64 | 280 | 1.29 | 0.25 | 15.3 |
| 4/21/2015 9:31:57 | 47.57 | 45.97 | 271 | 1.53 | 0.25 | 14.8 |
| 4/21/2015 9:32:02 | 47.90 | 46.30 | 35 | 1.61 | 1.06 | 1.9 |
| 4/21/2015 9:32:08 | 48.23 | 46.63 | 34 | 1.68 | 1.49 | 1.8 |
| 4/21/2015 9:32:10 | 48.56 | 46.96 | 119 | 1.58 | 0.99 | 6.5 |
| 4/21/2015 9:32:12 | 48.88 | 47.28 | 203 | 1.59 | 1.13 | 11.1 |
| 4/21/2015 9:32:15 | 49.21 | 47.61 | 107 | 1.58 | 1.13 | 5.9 |
| 4/21/2015 9:32:17 | 49.54 | 47.94 | 169 | 1.58 | 0.94 | 9.2 |
| 4/21/2015 9:32:18 | 49.87 | 48.27 | 214 | 1.31 | 0.91 | 11.7 |
| 4/21/2015 9:32:19 | 50.20 | 48.60 | 256 | 1.33 | 0.81 | 14.0 |
| 4/21/2015 9:32:21 | 50.53 | 48.93 | 269 | 1.55 | 0.98 | 14.7 |
| 4/21/2015 9:32:23 | 50.85 | 49.25 | 243 | 1.63 | 1.05 | 13.3 |
| 4/21/2015 9:32:24 | 51.18 | 49.58 | 218 | 1.64 | 1.08 | 11.9 |
| 4/21/2015 9:32:26 | 51.51 | 49.91 | 197 | 1.64 | 1.18 | 10.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:32:28 | 51.84 | 50.24 | 167 | 1.69 | 1.08 | 9.1 |
| 4/21/2015 | 9:32:30 | 52.17 | 50.57 | 145 | 1.66 | 1.06 | 7.9 |
| 4/21/2015 | 9:32:33 | 52.49 | 50.89 | 136 | 1.66 | 1.06 | 7.4 |
| 4/21/2015 | 9:32:36 | 52.82 | 51.22 | 133 | 1.68 | 1.04 | 7.3 |
| 4/21/2015 | 9:32:40 | 53.15 | 51.55 | 91 | 1.70 | 1.08 | 5.0 |
| 4/21/2015 | 9:32:46 | 53.48 | 51.88 | 63 | 1.70 | 1.11 | 3.4 |
| 4/21/2015 | 9:32:52 | 53.81 | 52.21 | 48 | 1.71 | 1.12 | 2.6 |
| 4/21/2015 | 9:32:59 | 54.13 | 52.53 | 47 | 1.70 | 1.13 | 2.6 |
| 4/21/2015 | 9:33:06 | 54.46 | 52.86 | 61 | 1.70 | 1.13 | 3.3 |
| 4/21/2015 | 9:33:12 | 54.79 | 53.19 | 61 | 1.70 | 1.15 | 3.4 |
| 4/21/2015 | 9:33:18 | 55.12 | 53.52 | 59 | 1.68 | 1.10 | 3.2 |
| 4/21/2015 | 9:33:21 | 55.29 | 53.69 | 58 | 1.67 | 1.15 | 3.2 |

## E102 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:28:18

**End Date:**
4/21/2015 9:40:09

**Operator Note:**
'1.6 1.9 c Auto Complete'

**Northing:**
368,455.56

**Easting:**
253,109.90

**Tide (feet):**
1.60



## Hole: E103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 0:18:34 | 35.43 | 30.23 | 850 | 1.73 | 0.21 | 46.5 |
| 4/21/2015 0:18:35 | 35.76 | 30.56 | 847 | 1.73 | 0.21 | 46.3 |
| 4/21/2015 0:18:35 | 36.09 | 30.89 | 840 | 1.73 | 0.21 | 45.9 |
| 4/21/2015 0:18:36 | 36.42 | 31.22 | 840 | 1.73 | 0.21 | 45.9 |
| 4/21/2015 0:18:36 | 36.75 | 31.55 | 840 | 1.73 | 0.21 | 45.9 |
| 4/21/2015 0:18:36 | 37.07 | 31.87 | 837 | 1.73 | 0.21 | 45.8 |
| 4/21/2015 0:18:37 | 37.40 | 32.20 | 852 | 1.73 | 0.21 | 46.6 |
| 4/21/2015 0:18:37 | 37.73 | 32.53 | 839 | 1.73 | 0.21 | 45.9 |
| 4/21/2015 0:18:38 | 38.06 | 32.86 | 850 | 1.73 | 0.21 | 46.5 |
| 4/21/2015 0:18:38 | 38.39 | 33.19 | 850 | 1.73 | 0.21 | 46.5 |
| 4/21/2015 0:18:38 | 38.71 | 33.51 | 855 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 0:18:39 | 39.04 | 33.84 | 860 | 1.73 | 0.21 | 47.0 |
| 4/21/2015 0:18:39 | 39.37 | 34.17 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:40 | 39.70 | 34.50 | 847 | 1.73 | 0.21 | 46.3 |
| 4/21/2015 0:18:40 | 40.03 | 34.83 | 847 | 1.73 | 0.21 | 46.3 |
| 4/21/2015 0:18:40 | 40.35 | 35.15 | 847 | 1.73 | 0.21 | 46.3 |
| 4/21/2015 0:18:41 | 40.68 | 35.48 | 854 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 0:18:41 | 41.01 | 35.81 | 862 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:42 | 41.34 | 36.14 | 859 | 1.73 | 0.21 | 47.0 |
| 4/21/2015 0:18:43 | 41.67 | 36.47 | 859 | 1.73 | 0.21 | 47.0 |
| 4/21/2015 0:18:43 | 41.99 | 36.79 | 854 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 0:18:43 | 42.32 | 37.12 | 873 | 1.73 | 0.21 | 47.7 |
| 4/21/2015 0:18:44 | 42.65 | 37.45 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:44 | 42.98 | 37.78 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:45 | 43.31 | 38.11 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:45 | 43.64 | 38.44 | 853 | 1.73 | 0.21 | 46.6 |
| 4/21/2015 0:18:45 | 43.96 | 38.76 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:46 | 44.29 | 39.09 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:46 | 44.62 | 39.42 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:47 | 44.95 | 39.75 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:47 | 45.28 | 40.08 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:47 | 45.60 | 40.40 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:48 | 45.93 | 40.73 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:48 | 46.26 | 41.06 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:49 | 46.59 | 41.39 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:49 | 46.92 | 41.72 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:49 | 47.24 | 42.04 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:50 | 47.57 | 42.37 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:50 | 47.90 | 42.70 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:51 | 48.23 | 43.03 | 858 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 0:18:51 | 48.56 | 43.36 | 853 | 1.73 | 0.21 | 46.6 |
| 4/21/2015 0:18:51 | 48.88 | 43.68 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:52 | 49.21 | 44.01 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 0:18:52 | 49.54 | 44.34 | 863 | 1.73 | 0.21 | 47.2 |
| 4/21/2015 0:18:53 | 49.87 | 44.67 | 863 | 1.73 | 0.21 | 47.2 |
| 4/21/2015 0:18:53 | 50.20 | 45.00 | 864 | 1.73 | 0.21 | 47.2 |
| 4/21/2015 0:18:54 | 50.53 | 45.33 | 866 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 0:18:54 | 50.85 | 45.65 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 0:19:20 | 51.18 | 45.98 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 0:19:22 | 51.51 | 46.31 | 164 | 1.73 | 0.21 | 9.0 |
| 4/21/2015 0:19:26 | 51.84 | 46.64 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 0:19:33 | 52.17 | 46.97 | 54 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 0:19:36 | 52.49 | 47.29 | 137 | 1.73 | 0.21 | 7.5 |
| 4/21/2015 0:19:38 | 52.82 | 47.62 | 144 | 1.73 | 0.21 | 7.9 |
| 4/21/2015 0:19:41 | 53.15 | 47.95 | 147 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 0:19:52 | 53.48 | 48.28 | 15 | 1.73 | 0.21 | 0.8 |
| 4/21/2015 0:19:57 | 53.81 | 48.61 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 0:20:06 | 54.13 | 48.93 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 0:20:08 | 54.46 | 49.26 | 192 | 1.73 | 0.21 | 10.5 |
| 4/21/2015 0:20:11 | 54.79 | 49.59 | 129 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 0:20:20 | 55.12 | 49.92 | 23 | 1.73 | 0.21 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 0:20:25 | 55.45 | 50.25 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 0:20:30 | 55.77 | 50.57 | 72 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 0:20:34 | 56.10 | 50.90 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 0:20:41 | 56.43 | 51.23 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 0:20:45 | 56.76 | 51.56 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 0:20:52 | 57.09 | 51.89 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 0:20:58 | 57.41 | 52.21 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 0:21:05 | 57.74 | 52.54 | 55 | 1.73 | 0.21 | 3.0 |

## E103 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 0:12:09

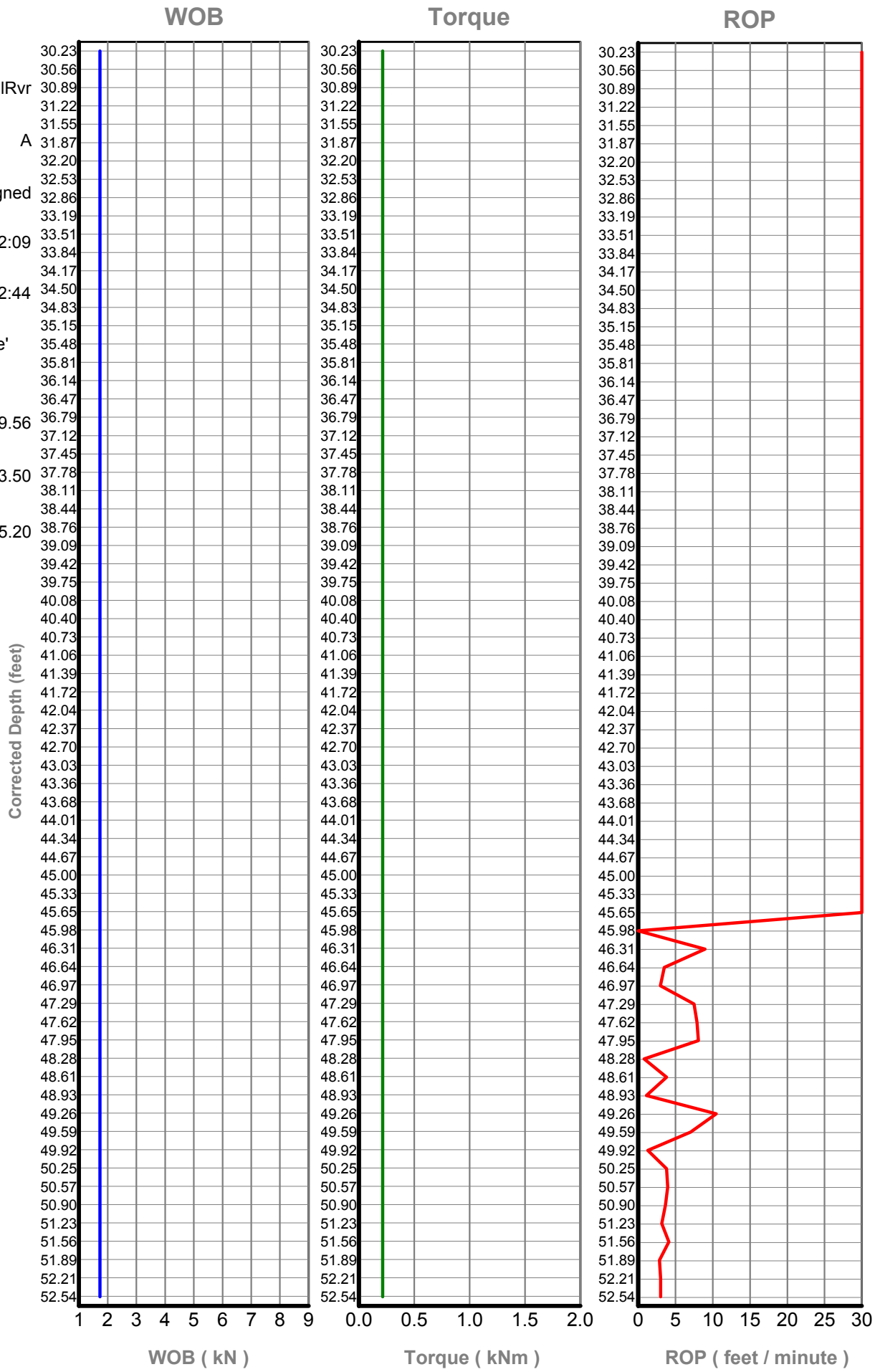
**End Date:**
4/21/2015 0:22:44

**Operator Note:**
'5.2 5.2 b Auto Complete'

**Northing:**
368,519.56

**Easting:**
253,193.50

**Tide (feet):**
5.20



## Hole: E104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 0:29:50 | 35.76 | 30.06 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:29:50 | 36.09 | 30.39 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:29:51 | 36.42 | 30.72 | 942 | 1.73 | 0.21 | 51.5 |
| 4/21/2015 0:29:51 | 36.75 | 31.05 | 942 | 1.73 | 0.21 | 51.5 |
| 4/21/2015 0:29:51 | 37.07 | 31.37 | 937 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 0:29:52 | 37.40 | 31.70 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 0:29:52 | 37.73 | 32.03 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 0:29:53 | 38.06 | 32.36 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 0:29:53 | 38.39 | 32.69 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 0:29:53 | 38.71 | 33.01 | 939 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 0:29:54 | 39.04 | 33.34 | 939 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 0:29:54 | 39.37 | 33.67 | 942 | 1.73 | 0.21 | 51.5 |
| 4/21/2015 0:29:54 | 39.70 | 34.00 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:29:55 | 40.03 | 34.33 | 942 | 1.73 | 0.21 | 51.5 |
| 4/21/2015 0:29:55 | 40.35 | 34.65 | 942 | 1.73 | 0.21 | 51.5 |
| 4/21/2015 0:29:55 | 40.68 | 34.98 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:29:56 | 41.01 | 35.31 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:29:56 | 41.34 | 35.64 | 954 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 0:29:57 | 41.67 | 35.97 | 954 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 0:29:57 | 41.99 | 36.29 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:29:57 | 42.32 | 36.62 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:29:58 | 42.65 | 36.95 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:29:58 | 42.98 | 37.28 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:29:58 | 43.31 | 37.61 | 948 | 1.73 | 0.21 | 51.9 |
| 4/21/2015 0:29:59 | 43.64 | 37.94 | 940 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 0:30:00 | 43.96 | 38.26 | 940 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 0:30:00 | 44.29 | 38.59 | 934 | 1.73 | 0.21 | 51.1 |
| 4/21/2015 0:30:00 | 44.62 | 38.92 | 943 | 1.73 | 0.21 | 51.6 |
| 4/21/2015 0:30:01 | 44.95 | 39.25 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 0:30:01 | 45.28 | 39.58 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 0:30:01 | 45.60 | 39.90 | 938 | 1.73 | 0.21 | 51.3 |
| 4/21/2015 0:30:02 | 45.93 | 40.23 | 938 | 1.73 | 0.21 | 51.3 |
| 4/21/2015 0:30:02 | 46.26 | 40.56 | 938 | 1.73 | 0.21 | 51.3 |
| 4/21/2015 0:30:02 | 46.59 | 40.89 | 952 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:30:03 | 46.92 | 41.22 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 0:30:03 | 47.24 | 41.54 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:30:04 | 47.57 | 41.87 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:30:04 | 47.90 | 42.20 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:30:04 | 48.23 | 42.53 | 959 | 1.73 | 0.21 | 52.4 |
| 4/21/2015 0:30:05 | 48.56 | 42.86 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:30:05 | 48.88 | 43.18 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:30:05 | 49.21 | 43.51 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 0:30:06 | 49.54 | 43.84 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:30:06 | 49.87 | 44.17 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 0:30:06 | 50.20 | 44.50 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 0:30:07 | 50.53 | 44.83 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 0:30:07 | 50.85 | 45.15 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 0:30:08 | 51.18 | 45.48 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 0:30:08 | 51.51 | 45.81 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 0:30:47 | 51.84 | 46.14 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 0:30:52 | 52.17 | 46.47 | 6 | 1.73 | 0.21 | 0.3 |
| 4/21/2015 0:30:54 | 52.49 | 46.79 | 169 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 0:30:59 | 52.82 | 47.12 | 87 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 0:31:00 | 53.15 | 47.45 | 167 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 0:31:04 | 53.48 | 47.78 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 0:31:10 | 53.81 | 48.11 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 0:31:13 | 54.13 | 48.43 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 0:31:17 | 54.46 | 48.76 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 0:31:22 | 54.79 | 49.09 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 0:31:28 | 55.12 | 49.42 | 78 | 1.73 | 0.21 | 4.2 |
| 4/21/2015 0:31:32 | 55.45 | 49.75 | 101 | 1.73 | 0.21 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 0:31:35 | 55.77 | 50.07 | 107 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 | 0:31:40 | 56.10 | 50.40 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 0:31:44 | 56.43 | 50.73 | 87 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 0:31:48 | 56.76 | 51.06 | 90 | 1.73 | 0.21 | 4.9 |
| 4/21/2015 | 0:31:52 | 57.09 | 51.39 | 85 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 0:32:05 | 57.41 | 51.71 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 | 0:32:17 | 57.74 | 52.04 | 34 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 | 0:32:24 | 58.07 | 52.37 | 81 | 1.73 | 0.21 | 4.5 |
| 4/21/2015 | 0:32:28 | 58.40 | 52.70 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 | 0:32:31 | 58.73 | 53.03 | 111 | 1.73 | 0.21 | 6.1 |
| 4/21/2015 | 0:32:34 | 59.06 | 53.36 | 116 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 | 0:32:37 | 59.38 | 53.68 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 | 0:32:41 | 59.71 | 54.01 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 0:32:45 | 60.04 | 54.34 | 97 | 1.73 | 0.21 | 5.3 |
| 4/21/2015 | 0:32:48 | 60.37 | 54.67 | 121 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 | 0:32:50 | 60.57 | 54.87 | 139 | 1.73 | 0.21 | 7.6 |

## E104 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 0:26:40

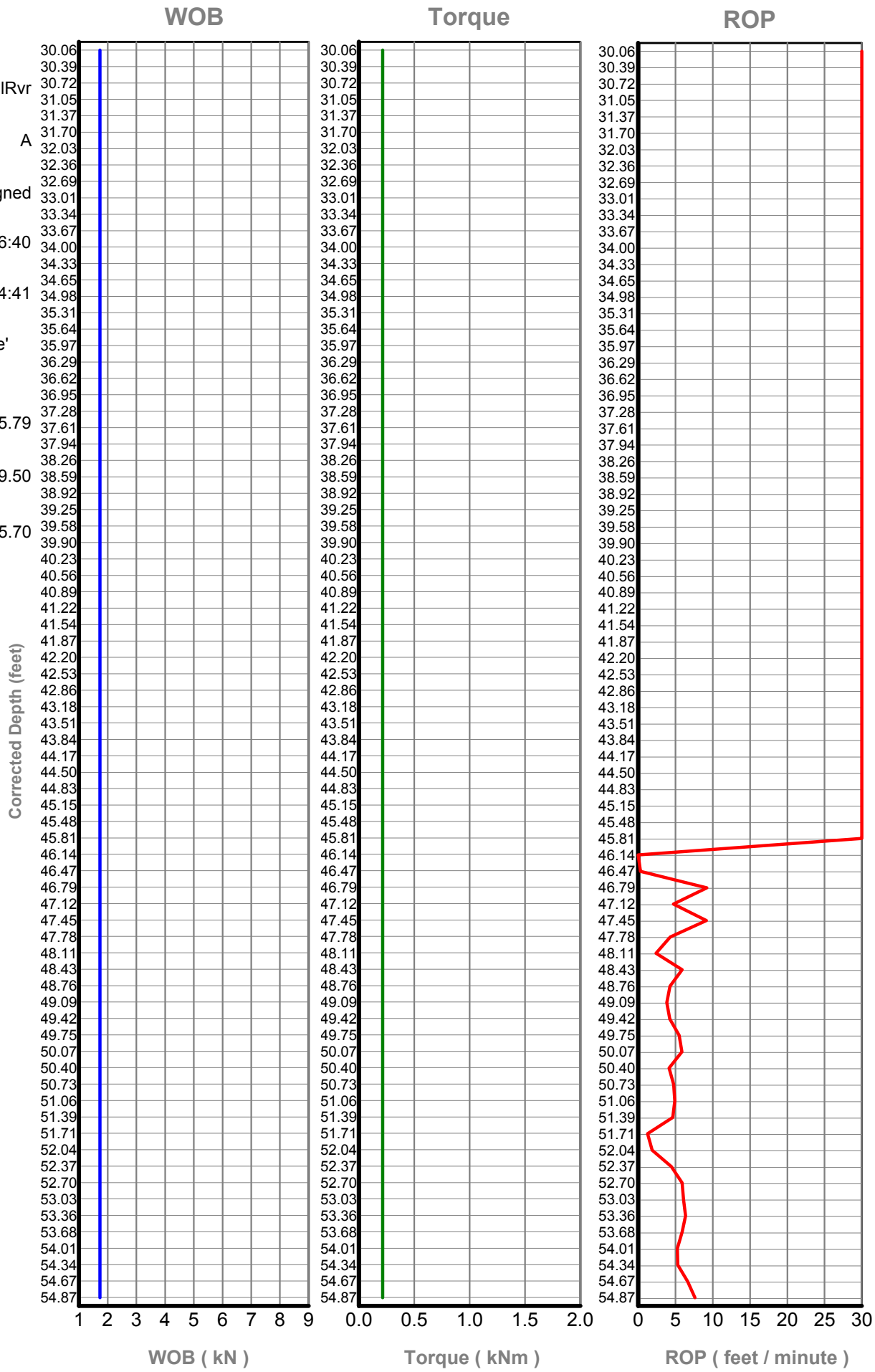
**End Date:**
4/21/2015 0:34:41

**Operator Note:**
'5.7 5.5 b Auto Complete'

**Northing:**
368,555.79

**Easting:**
253,239.50

**Tide (feet):**
5.70



## Hole: E105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 0:18:02 | 35.43 | 30.13 | 350 | 1.48 | 0.13 | 19.1 |
| 4/21/2015 0:18:03 | 35.76 | 30.46 | 350 | 1.50 | 0.13 | 19.1 |
| 4/21/2015 0:18:05 | 36.09 | 30.79 | 348 | 1.51 | 0.13 | 19.0 |
| 4/21/2015 0:18:06 | 36.42 | 31.12 | 347 | 1.51 | 0.13 | 19.0 |
| 4/21/2015 0:18:07 | 36.75 | 31.45 | 347 | 1.49 | 0.13 | 19.0 |
| 4/21/2015 0:18:08 | 37.07 | 31.77 | 347 | 1.52 | 0.13 | 19.0 |
| 4/21/2015 0:18:08 | 37.40 | 32.10 | 345 | 1.52 | 0.13 | 18.9 |
| 4/21/2015 0:18:09 | 37.73 | 32.43 | 341 | 1.49 | 0.13 | 18.6 |
| 4/21/2015 0:18:10 | 38.06 | 32.76 | 347 | 1.52 | 0.13 | 19.0 |
| 4/21/2015 0:18:11 | 38.39 | 33.09 | 347 | 1.50 | 0.13 | 19.0 |
| 4/21/2015 0:18:12 | 38.71 | 33.41 | 354 | 1.45 | 0.13 | 19.3 |
| 4/21/2015 0:18:13 | 39.04 | 33.74 | 350 | 1.49 | 0.13 | 19.1 |
| 4/21/2015 0:18:15 | 39.37 | 34.07 | 350 | 1.48 | 0.13 | 19.1 |
| 4/21/2015 0:18:16 | 39.70 | 34.40 | 347 | 1.51 | 0.13 | 19.0 |
| 4/21/2015 0:18:17 | 40.03 | 34.73 | 347 | 1.50 | 0.13 | 19.0 |
| 4/21/2015 0:18:18 | 40.35 | 35.05 | 352 | 1.53 | 0.13 | 19.2 |
| 4/21/2015 0:18:19 | 40.68 | 35.38 | 350 | 1.49 | 0.13 | 19.1 |
| 4/21/2015 0:18:20 | 41.01 | 35.71 | 353 | 1.53 | 0.13 | 19.3 |
| 4/21/2015 0:18:21 | 41.34 | 36.04 | 350 | 1.45 | 0.13 | 19.1 |
| 4/21/2015 0:18:22 | 41.67 | 36.37 | 350 | 1.50 | 0.13 | 19.2 |
| 4/21/2015 0:18:23 | 41.99 | 36.69 | 344 | 1.53 | 0.13 | 18.8 |
| 4/21/2015 0:18:24 | 42.32 | 37.02 | 349 | 1.51 | 0.13 | 19.1 |
| 4/21/2015 0:18:25 | 42.65 | 37.35 | 341 | 1.46 | 0.13 | 18.7 |
| 4/21/2015 0:18:26 | 42.98 | 37.68 | 339 | 1.54 | 0.13 | 18.5 |
| 4/21/2015 0:18:27 | 43.31 | 38.01 | 339 | 1.51 | 0.14 | 18.5 |
| 4/21/2015 0:18:28 | 43.64 | 38.34 | 342 | 1.53 | 0.13 | 18.7 |
| 4/21/2015 0:18:29 | 43.96 | 38.66 | 344 | 1.46 | 0.13 | 18.8 |
| 4/21/2015 0:18:30 | 44.29 | 38.99 | 344 | 1.51 | 0.13 | 18.8 |
| 4/21/2015 0:18:31 | 44.62 | 39.32 | 345 | 1.47 | 0.13 | 18.9 |
| 4/21/2015 0:18:32 | 44.95 | 39.65 | 344 | 1.48 | 0.13 | 18.8 |
| 4/21/2015 0:18:33 | 45.28 | 39.98 | 344 | 1.47 | 0.13 | 18.8 |
| 4/21/2015 0:18:34 | 45.60 | 40.30 | 343 | 1.45 | 0.13 | 18.8 |
| 4/21/2015 0:18:36 | 45.93 | 40.63 | 344 | 1.52 | 0.13 | 18.8 |
| 4/21/2015 0:18:37 | 46.26 | 40.96 | 342 | 1.52 | 0.13 | 18.7 |
| 4/21/2015 0:18:38 | 46.59 | 41.29 | 342 | 1.50 | 0.13 | 18.7 |
| 4/21/2015 0:18:39 | 46.92 | 41.62 | 346 | 1.40 | 0.13 | 18.9 |
| 4/21/2015 0:18:40 | 47.24 | 41.94 | 341 | 1.53 | 0.13 | 18.7 |
| 4/21/2015 0:18:41 | 47.57 | 42.27 | 344 | 1.51 | 0.13 | 18.8 |
| 4/21/2015 0:18:42 | 47.90 | 42.60 | 341 | 1.46 | 0.13 | 18.7 |
| 4/21/2015 0:18:43 | 48.23 | 42.93 | 344 | 1.50 | 0.13 | 18.8 |
| 4/21/2015 0:18:44 | 48.56 | 43.26 | 338 | 1.49 | 0.13 | 18.5 |
| 4/21/2015 0:18:45 | 48.88 | 43.58 | 341 | 1.49 | 0.13 | 18.7 |
| 4/21/2015 0:18:46 | 49.21 | 43.91 | 341 | 1.49 | 0.13 | 18.7 |
| 4/21/2015 0:18:47 | 49.54 | 44.24 | 343 | 1.51 | 0.13 | 18.8 |
| 4/21/2015 0:18:48 | 49.87 | 44.57 | 338 | 1.50 | 0.13 | 18.5 |
| 4/21/2015 0:18:49 | 50.20 | 44.90 | 343 | 1.48 | 0.13 | 18.8 |
| 4/21/2015 0:18:50 | 50.53 | 45.23 | 341 | 1.55 | 0.13 | 18.7 |
| 4/21/2015 0:19:46 | 50.85 | 45.55 | 6 | 1.57 | 0.93 | 0.3 |
| 4/21/2015 0:19:59 | 51.18 | 45.88 | 69 | 1.64 | 1.28 | 3.8 |
| 4/21/2015 0:20:14 | 51.51 | 46.21 | 0 | 1.51 | 0.91 | 0.0 |
| 4/21/2015 0:20:15 | 51.84 | 46.54 | 98 | 1.59 | 1.03 | 5.3 |
| 4/21/2015 0:20:41 | 52.17 | 46.87 | 0 | 1.58 | 1.02 | 0.0 |
| 4/21/2015 0:20:44 | 52.49 | 47.19 | 127 | 1.66 | 1.08 | 7.0 |
| 4/21/2015 0:20:48 | 52.82 | 47.52 | 97 | 1.67 | 1.18 | 5.3 |
| 4/21/2015 0:20:53 | 53.15 | 47.85 | 70 | 1.70 | 1.18 | 3.8 |
| 4/21/2015 0:20:59 | 53.48 | 48.18 | 55 | 1.70 | 1.19 | 3.0 |
| 4/21/2015 0:21:05 | 53.81 | 48.51 | 60 | 1.70 | 1.12 | 3.3 |
| 4/21/2015 0:21:09 | 54.01 | 48.71 | 58 | 1.73 | 1.17 | 3.2 |

## E105 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 0:15:33

**End Date:**
4/21/2015 0:22:53

**Operator Note:**
'5.3 5.2 c Auto Complete'

**Northing:**
368,602.00

**Easting:**
253,297.99

**Tide (feet):**
5.30



## Hole: E106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:47:27 | 35.76 | 30.26 | 1,095 | 0.28 | 0.31 | 59.9 |
| 4/20/2015 16:47:27 | 36.09 | 30.59 | 1,098 | 0.29 | 0.32 | 60.0 |
| 4/20/2015 16:47:27 | 36.42 | 30.92 | 1,085 | 0.28 | 0.31 | 59.3 |
| 4/20/2015 16:47:28 | 36.75 | 31.25 | 1,085 | 0.28 | 0.31 | 59.3 |
| 4/20/2015 16:47:28 | 37.07 | 31.57 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 16:47:28 | 37.40 | 31.90 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 16:47:28 | 37.73 | 32.23 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 16:47:29 | 38.06 | 32.56 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 16:47:29 | 38.39 | 32.89 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 16:47:29 | 38.71 | 33.21 | 1,112 | 0.26 | 0.31 | 60.8 |
| 4/20/2015 16:47:30 | 39.04 | 33.54 | 1,115 | 0.28 | 0.31 | 61.0 |
| 4/20/2015 16:47:31 | 39.37 | 33.87 | 1,115 | 0.28 | 0.31 | 61.0 |
| 4/20/2015 16:47:31 | 39.70 | 34.20 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:47:31 | 40.03 | 34.53 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:47:31 | 40.35 | 34.85 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 16:47:32 | 40.68 | 35.18 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/20/2015 16:47:32 | 41.01 | 35.51 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/20/2015 16:47:32 | 41.34 | 35.84 | 1,095 | 0.28 | 0.31 | 59.9 |
| 4/20/2015 16:47:33 | 41.67 | 36.17 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 16:47:33 | 41.99 | 36.49 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 16:47:33 | 42.32 | 36.82 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 16:47:34 | 42.65 | 37.15 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 16:47:34 | 42.98 | 37.48 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:47:34 | 43.31 | 37.81 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 16:47:35 | 43.64 | 38.14 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 16:47:35 | 43.96 | 38.46 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 16:47:35 | 44.29 | 38.79 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 16:47:36 | 44.62 | 39.12 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 16:47:36 | 44.95 | 39.45 | 1,073 | 0.28 | 0.32 | 58.7 |
| 4/20/2015 16:47:36 | 45.28 | 39.78 | 1,073 | 0.28 | 0.32 | 58.7 |
| 4/20/2015 16:47:36 | 45.60 | 40.10 | 1,073 | 0.28 | 0.32 | 58.7 |
| 4/20/2015 16:47:37 | 45.93 | 40.43 | 1,083 | 0.29 | 0.31 | 59.2 |
| 4/20/2015 16:47:37 | 46.26 | 40.76 | 1,083 | 0.29 | 0.31 | 59.2 |
| 4/20/2015 16:47:37 | 46.59 | 41.09 | 1,080 | 0.28 | 0.31 | 59.1 |
| 4/20/2015 16:47:38 | 46.92 | 41.42 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 16:47:38 | 47.24 | 41.74 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 16:47:38 | 47.57 | 42.07 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/20/2015 16:47:39 | 47.90 | 42.40 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/20/2015 16:47:39 | 48.23 | 42.73 | 1,106 | 0.28 | 0.32 | 60.5 |
| 4/20/2015 16:47:39 | 48.56 | 43.06 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 16:47:40 | 48.88 | 43.38 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 16:47:40 | 49.21 | 43.71 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/20/2015 16:47:41 | 49.54 | 44.04 | 1,090 | 0.26 | 0.36 | 59.6 |
| 4/20/2015 16:47:53 | 49.87 | 44.37 | 20 | 3.10 | 0.39 | 1.1 |
| 4/20/2015 16:47:58 | 50.20 | 44.70 | 61 | 3.57 | 0.39 | 3.4 |
| 4/20/2015 16:48:03 | 50.53 | 45.03 | 81 | 3.20 | 0.40 | 4.4 |
| 4/20/2015 16:48:08 | 50.85 | 45.35 | 71 | 4.09 | 0.41 | 3.9 |
| 4/20/2015 16:48:14 | 51.18 | 45.68 | 66 | 3.37 | 0.41 | 3.6 |
| 4/20/2015 16:48:19 | 51.51 | 46.01 | 64 | 3.77 | 0.41 | 3.5 |
| 4/20/2015 16:48:25 | 51.84 | 46.34 | 63 | 3.82 | 0.39 | 3.4 |
| 4/20/2015 16:48:28 | 52.03 | 46.53 | 69 | 4.11 | 0.39 | 3.8 |

## E106 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:45:16

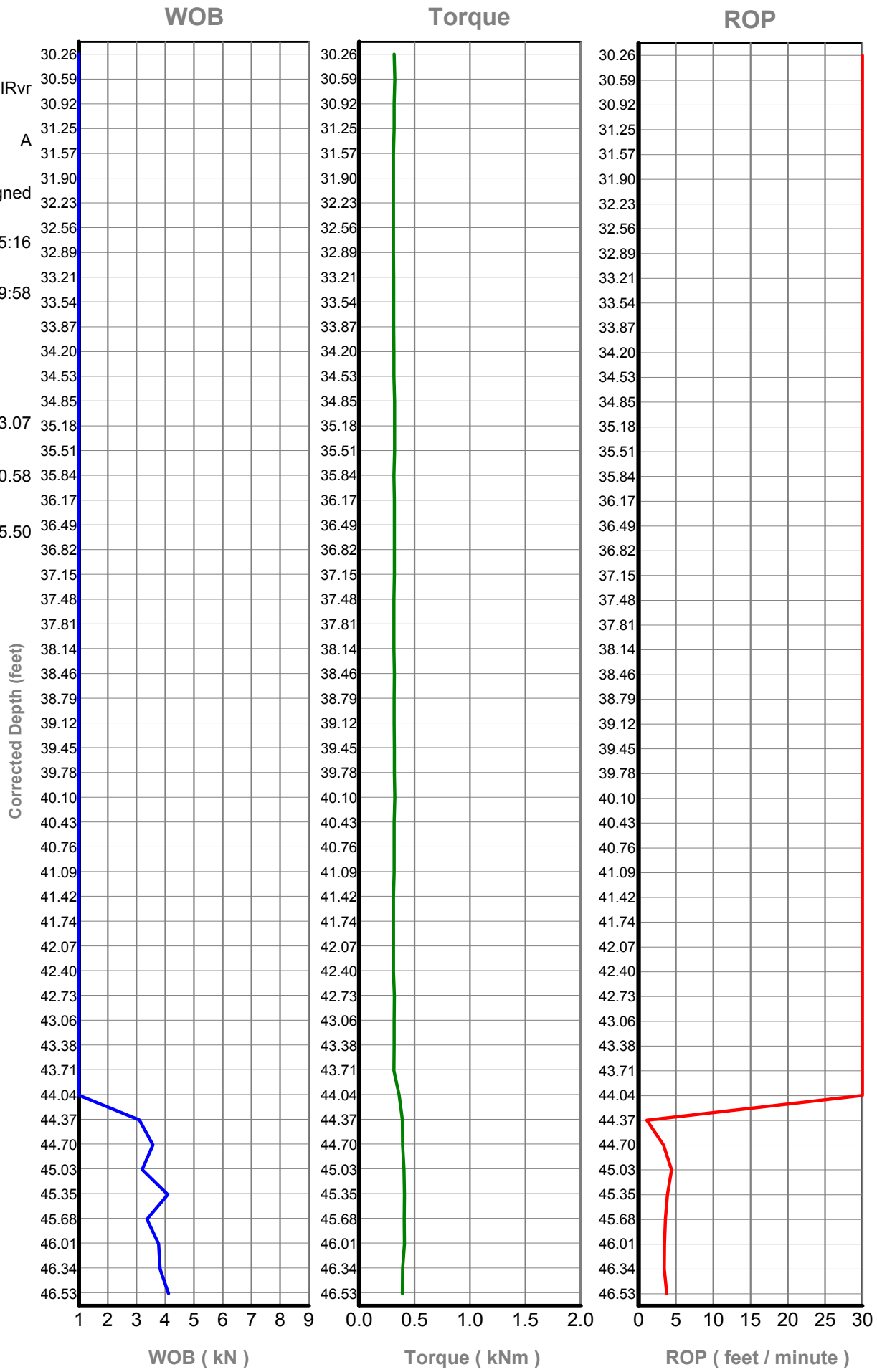
**End Date:**
4/20/2015 16:49:58

**Operator Note:**
'5.5 5.6 b Rock'

**Northing:**
368,653.07

**Easting:**
253,350.58

**Tide (feet):**
5.50



## Hole: E107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:51:56 | 35.76 | 30.26 | 1,039 | 0.39 | 0.33 | 56.8 |
| 4/20/2015 16:51:56 | 36.09 | 30.59 | 1,018 | 0.38 | 0.32 | 55.7 |
| 4/20/2015 16:51:57 | 36.42 | 30.92 | 1,018 | 0.38 | 0.33 | 55.7 |
| 4/20/2015 16:51:57 | 36.75 | 31.25 | 1,018 | 0.38 | 0.33 | 55.7 |
| 4/20/2015 16:51:57 | 37.07 | 31.57 | 1,036 | 0.39 | 0.33 | 56.6 |
| 4/20/2015 16:51:58 | 37.40 | 31.90 | 1,026 | 0.39 | 0.33 | 56.1 |
| 4/20/2015 16:51:58 | 37.73 | 32.23 | 1,026 | 0.39 | 0.33 | 56.1 |
| 4/20/2015 16:51:58 | 38.06 | 32.56 | 1,023 | 0.38 | 0.32 | 56.0 |
| 4/20/2015 16:51:59 | 38.39 | 32.89 | 1,026 | 0.38 | 0.32 | 56.1 |
| 4/20/2015 16:51:59 | 38.71 | 33.21 | 1,026 | 0.38 | 0.32 | 56.1 |
| 4/20/2015 16:51:59 | 39.04 | 33.54 | 1,023 | 0.38 | 0.33 | 55.9 |
| 4/20/2015 16:52:00 | 39.37 | 33.87 | 1,029 | 0.38 | 0.33 | 56.3 |
| 4/20/2015 16:52:01 | 39.70 | 34.20 | 1,029 | 0.38 | 0.33 | 56.3 |
| 4/20/2015 16:52:01 | 40.03 | 34.53 | 1,029 | 0.37 | 0.32 | 56.3 |
| 4/20/2015 16:52:01 | 40.35 | 34.85 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/20/2015 16:52:02 | 40.68 | 35.18 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/20/2015 16:52:02 | 41.01 | 35.51 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/20/2015 16:52:02 | 41.34 | 35.84 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/20/2015 16:52:03 | 41.67 | 36.17 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/20/2015 16:52:03 | 41.99 | 36.49 | 1,041 | 0.27 | 0.32 | 56.9 |
| 4/20/2015 16:52:03 | 42.32 | 36.82 | 1,043 | 0.27 | 0.32 | 57.1 |
| 4/20/2015 16:52:04 | 42.65 | 37.15 | 1,043 | 0.27 | 0.32 | 57.1 |
| 4/20/2015 16:52:04 | 42.98 | 37.48 | 1,046 | 0.27 | 0.32 | 57.2 |
| 4/20/2015 16:52:04 | 43.31 | 37.81 | 1,067 | 0.27 | 0.32 | 58.3 |
| 4/20/2015 16:52:05 | 43.64 | 38.14 | 1,067 | 0.27 | 0.32 | 58.3 |
| 4/20/2015 16:52:05 | 43.96 | 38.46 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 16:52:05 | 44.29 | 38.79 | 1,070 | 0.36 | 0.32 | 58.5 |
| 4/20/2015 16:52:06 | 44.62 | 39.12 | 1,070 | 0.36 | 0.32 | 58.5 |
| 4/20/2015 16:52:06 | 44.95 | 39.45 | 1,073 | 0.32 | 0.32 | 58.7 |
| 4/20/2015 16:52:06 | 45.28 | 39.78 | 1,073 | 0.32 | 0.32 | 58.7 |
| 4/20/2015 16:52:06 | 45.60 | 40.10 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 16:52:07 | 45.93 | 40.43 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 16:52:07 | 46.26 | 40.76 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 16:52:07 | 46.59 | 41.09 | 1,064 | 0.28 | 0.30 | 58.2 |
| 4/20/2015 16:52:08 | 46.92 | 41.42 | 1,057 | 0.29 | 0.32 | 57.8 |
| 4/20/2015 16:52:08 | 47.24 | 41.74 | 1,057 | 0.29 | 0.32 | 57.8 |
| 4/20/2015 16:52:08 | 47.57 | 42.07 | 1,070 | 0.28 | 0.32 | 58.5 |
| 4/20/2015 16:52:09 | 47.90 | 42.40 | 1,067 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:52:09 | 48.23 | 42.73 | 1,067 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:52:09 | 48.56 | 43.06 | 1,070 | 0.28 | 0.32 | 58.5 |
| 4/20/2015 16:52:10 | 48.88 | 43.38 | 1,073 | 0.28 | 0.32 | 58.6 |
| 4/20/2015 16:52:11 | 49.21 | 43.71 | 1,073 | 0.28 | 0.32 | 58.6 |
| 4/20/2015 16:52:11 | 49.54 | 44.04 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/20/2015 16:52:11 | 49.87 | 44.37 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/20/2015 16:52:11 | 50.20 | 44.70 | 1,064 | 0.27 | 0.31 | 58.2 |
| 4/20/2015 16:52:12 | 50.53 | 45.03 | 1,067 | 0.28 | 0.32 | 58.4 |
| 4/20/2015 16:52:12 | 50.85 | 45.35 | 1,067 | 0.28 | 0.32 | 58.4 |
| 4/20/2015 16:52:12 | 51.18 | 45.68 | 1,067 | 0.28 | 0.31 | 58.4 |
| 4/20/2015 16:52:13 | 51.51 | 46.01 | 1,064 | 0.26 | 0.38 | 58.2 |
| 4/20/2015 16:52:22 | 51.84 | 46.34 | 90 | 3.16 | 0.39 | 4.9 |
| 4/20/2015 16:52:23 | 52.17 | 46.67 | 150 | 3.31 | 0.38 | 8.2 |
| 4/20/2015 16:52:24 | 52.49 | 46.99 | 246 | 3.33 | 0.40 | 13.5 |
| 4/20/2015 16:52:25 | 52.82 | 47.32 | 334 | 3.79 | 0.38 | 18.2 |
| 4/20/2015 16:52:27 | 53.15 | 47.65 | 217 | 4.80 | 0.40 | 11.9 |
| 4/20/2015 16:52:29 | 53.48 | 47.98 | 202 | 3.54 | 0.39 | 11.1 |
| 4/20/2015 16:52:31 | 53.81 | 48.31 | 187 | 3.94 | 0.39 | 10.2 |
| 4/20/2015 16:52:33 | 54.13 | 48.63 | 172 | 4.05 | 0.38 | 9.4 |
| 4/20/2015 16:52:35 | 54.46 | 48.96 | 189 | 3.62 | 0.39 | 10.3 |
| 4/20/2015 16:52:37 | 54.79 | 49.29 | 155 | 4.02 | 0.39 | 8.5 |
| 4/20/2015 16:52:41 | 55.12 | 49.62 | 95 | 4.44 | 0.39 | 5.2 |
| 4/20/2015 16:52:44 | 55.45 | 49.95 | 113 | 4.04 | 0.40 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:52:47 | 55.77 | 50.27 | 121 | 3.96 | 0.40 | 6.6 |
| 4/20/2015 | 16:52:51 | 56.10 | 50.60 | 101 | 5.78 | 0.40 | 5.5 |
| 4/20/2015 | 16:52:55 | 56.43 | 50.93 | 98 | 3.85 | 0.40 | 5.4 |
| 4/20/2015 | 16:52:59 | 56.76 | 51.26 | 84 | 3.50 | 0.40 | 4.6 |
| 4/20/2015 | 16:53:03 | 57.09 | 51.59 | 95 | 3.34 | 0.40 | 5.2 |
| 4/20/2015 | 16:53:07 | 57.41 | 51.91 | 63 | 3.63 | 0.40 | 3.5 |
| 4/20/2015 | 16:53:13 | 57.74 | 52.24 | 65 | 3.12 | 0.40 | 3.6 |
| 4/20/2015 | 16:53:17 | 58.07 | 52.57 | 90 | 3.69 | 0.38 | 4.9 |
| 4/20/2015 | 16:53:20 | 58.40 | 52.90 | 107 | 4.15 | 0.39 | 5.8 |
| 4/20/2015 | 16:53:25 | 58.73 | 53.23 | 89 | 5.09 | 0.39 | 4.8 |
| 4/20/2015 | 16:53:29 | 59.06 | 53.56 | 91 | 4.81 | 0.40 | 5.0 |
| 4/20/2015 | 16:53:32 | 59.38 | 53.88 | 95 | 3.72 | 0.40 | 5.2 |
| 4/20/2015 | 16:53:37 | 59.71 | 54.21 | 76 | 3.52 | 0.40 | 4.2 |
| 4/20/2015 | 16:53:42 | 60.04 | 54.54 | 74 | 4.70 | 0.40 | 4.1 |
| 4/20/2015 | 16:53:46 | 60.37 | 54.87 | 82 | 4.20 | 0.39 | 4.5 |
| 4/20/2015 | 16:53:49 | 60.59 | 55.09 | 82 | 4.08 | 0.40 | 4.5 |

## E107 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:50:38

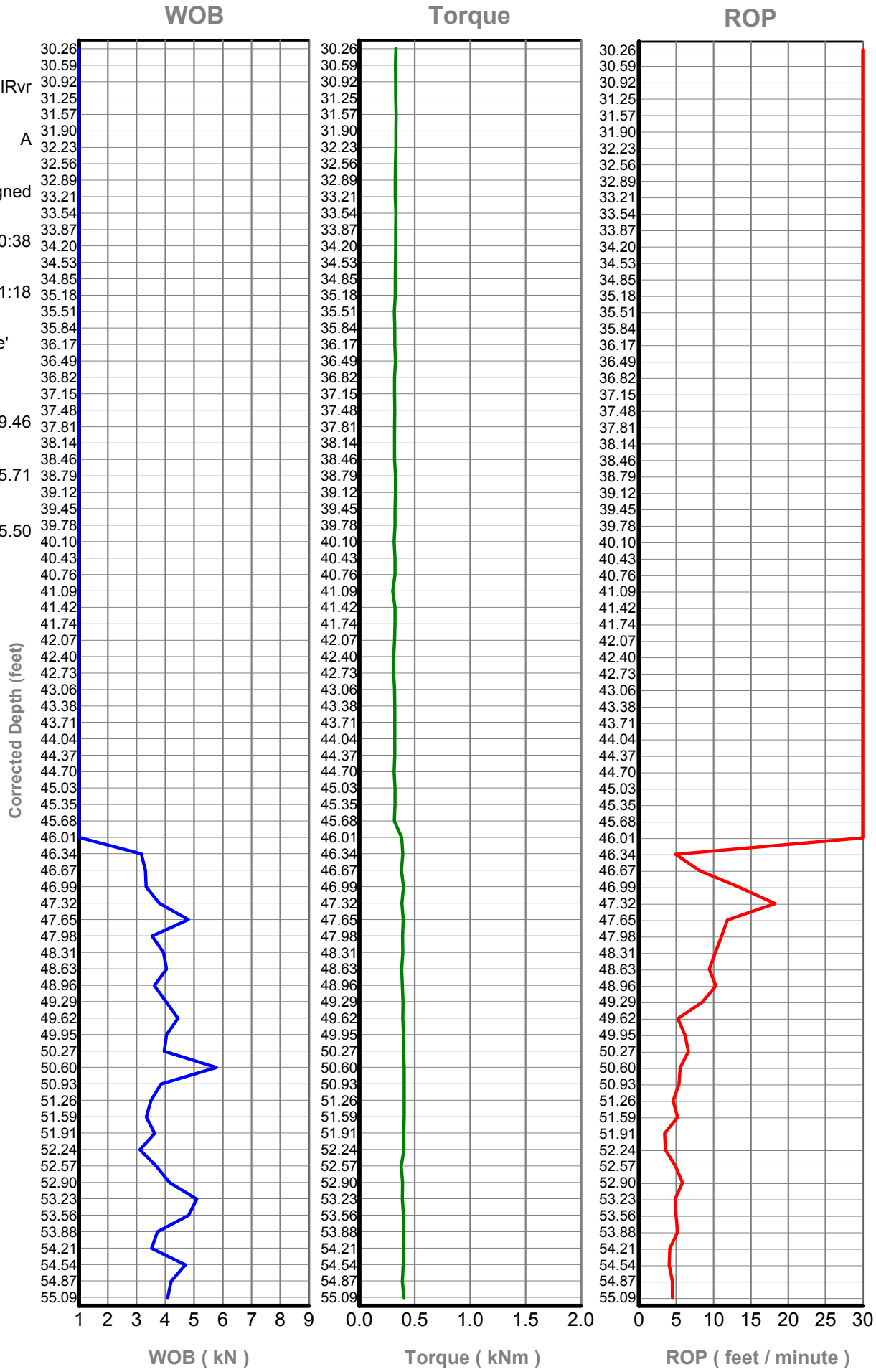
**End Date:**
4/20/2015 17:01:18

**Operator Note:**
'5.5 5.6 b Auto Complete'

**Northing:**
368,689.46

**Easting:**
253,395.71

**Tide (feet):**
5.50



## Hole: E108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:49:47 | 35.76 | 30.26 | 393 | 1.26 | 0.25 | 21.5 |
| 4/20/2015 16:49:48 | 36.09 | 30.59 | 384 | 1.43 | 0.25 | 21.0 |
| 4/20/2015 16:49:49 | 36.42 | 30.92 | 382 | 1.37 | 0.26 | 20.9 |
| 4/20/2015 16:49:50 | 36.75 | 31.25 | 387 | 1.44 | 0.25 | 21.2 |
| 4/20/2015 16:49:51 | 37.07 | 31.57 | 390 | 1.40 | 0.25 | 21.3 |
| 4/20/2015 16:49:52 | 37.40 | 31.90 | 396 | 1.31 | 0.25 | 21.7 |
| 4/20/2015 16:49:53 | 37.73 | 32.23 | 387 | 1.45 | 0.25 | 21.2 |
| 4/20/2015 16:49:54 | 38.06 | 32.56 | 380 | 1.30 | 0.25 | 20.8 |
| 4/20/2015 16:49:55 | 38.39 | 32.89 | 380 | 1.33 | 0.25 | 20.8 |
| 4/20/2015 16:49:56 | 38.71 | 33.21 | 383 | 1.22 | 0.26 | 20.9 |
| 4/20/2015 16:49:57 | 39.04 | 33.54 | 390 | 1.48 | 0.25 | 21.3 |
| 4/20/2015 16:49:58 | 39.37 | 33.87 | 385 | 1.36 | 0.26 | 21.1 |
| 4/20/2015 16:49:59 | 39.70 | 34.20 | 384 | 1.31 | 0.26 | 21.0 |
| 4/20/2015 16:49:59 | 40.03 | 34.53 | 382 | 1.38 | 0.25 | 20.9 |
| 4/20/2015 16:50:01 | 40.35 | 34.85 | 371 | 1.38 | 0.26 | 20.3 |
| 4/20/2015 16:50:02 | 40.68 | 35.18 | 374 | 1.50 | 0.25 | 20.4 |
| 4/20/2015 16:50:03 | 41.01 | 35.51 | 384 | 1.28 | 0.25 | 21.0 |
| 4/20/2015 16:50:04 | 41.34 | 35.84 | 378 | 1.32 | 0.25 | 20.7 |
| 4/20/2015 16:50:04 | 41.67 | 36.17 | 395 | 1.51 | 0.26 | 21.6 |
| 4/20/2015 16:50:05 | 41.99 | 36.49 | 390 | 1.20 | 0.25 | 21.3 |
| 4/20/2015 16:50:06 | 42.32 | 36.82 | 382 | 1.52 | 0.25 | 20.9 |
| 4/20/2015 16:50:07 | 42.65 | 37.15 | 374 | 1.42 | 0.25 | 20.4 |
| 4/20/2015 16:50:08 | 42.98 | 37.48 | 379 | 1.62 | 0.26 | 20.8 |
| 4/20/2015 16:50:09 | 43.31 | 37.81 | 399 | 1.40 | 0.25 | 21.8 |
| 4/20/2015 16:50:10 | 43.64 | 38.14 | 405 | 1.62 | 0.25 | 22.2 |
| 4/20/2015 16:50:11 | 43.96 | 38.46 | 394 | 1.41 | 0.26 | 21.5 |
| 4/20/2015 16:50:12 | 44.29 | 38.79 | 374 | 1.56 | 0.25 | 20.4 |
| 4/20/2015 16:50:13 | 44.62 | 39.12 | 374 | 1.47 | 0.26 | 20.4 |
| 4/20/2015 16:50:14 | 44.95 | 39.45 | 373 | 1.53 | 0.25 | 20.4 |
| 4/20/2015 16:50:15 | 45.28 | 39.78 | 384 | 1.50 | 0.26 | 21.0 |
| 4/20/2015 16:50:16 | 45.60 | 40.10 | 393 | 1.54 | 0.25 | 21.5 |
| 4/20/2015 16:50:16 | 45.93 | 40.43 | 386 | 1.68 | 0.25 | 21.1 |
| 4/20/2015 16:50:17 | 46.26 | 40.76 | 387 | 1.45 | 0.26 | 21.2 |
| 4/20/2015 16:50:18 | 46.59 | 41.09 | 384 | 1.65 | 0.25 | 21.0 |
| 4/20/2015 16:50:19 | 46.92 | 41.42 | 393 | 1.31 | 0.25 | 21.5 |
| 4/20/2015 16:50:20 | 47.24 | 41.74 | 393 | 1.34 | 0.25 | 21.5 |
| 4/20/2015 16:50:21 | 47.57 | 42.07 | 383 | 1.30 | 0.25 | 20.9 |
| 4/20/2015 16:50:22 | 47.90 | 42.40 | 381 | 1.59 | 0.25 | 20.8 |
| 4/20/2015 16:50:23 | 48.23 | 42.73 | 374 | 1.33 | 0.26 | 20.4 |
| 4/20/2015 16:50:24 | 48.56 | 43.06 | 388 | 1.66 | 0.25 | 21.2 |
| 4/20/2015 16:50:25 | 48.88 | 43.38 | 388 | 1.33 | 0.25 | 21.2 |
| 4/20/2015 16:50:26 | 49.21 | 43.71 | 395 | 1.41 | 0.25 | 21.6 |
| 4/20/2015 16:50:27 | 49.54 | 44.04 | 390 | 1.40 | 0.25 | 21.3 |
| 4/20/2015 16:50:28 | 49.87 | 44.37 | 387 | 1.43 | 0.25 | 21.2 |
| 4/20/2015 16:50:28 | 50.20 | 44.70 | 384 | 1.39 | 0.25 | 21.0 |
| 4/20/2015 16:50:29 | 50.53 | 45.03 | 376 | 1.76 | 0.26 | 20.6 |
| 4/20/2015 16:50:47 | 50.85 | 45.35 | 81 | 1.72 | 1.05 | 4.4 |
| 4/20/2015 16:50:49 | 51.18 | 45.68 | 197 | 1.81 | 1.08 | 10.8 |
| 4/20/2015 16:50:51 | 51.51 | 46.01 | 168 | 1.81 | 1.15 | 9.2 |
| 4/20/2015 16:50:54 | 51.84 | 46.34 | 156 | 1.83 | 1.15 | 8.5 |
| 4/20/2015 16:50:56 | 52.17 | 46.67 | 153 | 1.82 | 1.13 | 8.4 |
| 4/20/2015 16:50:59 | 52.49 | 46.99 | 116 | 1.83 | 1.18 | 6.3 |
| 4/20/2015 16:51:03 | 52.82 | 47.32 | 82 | 1.85 | 1.13 | 4.5 |
| 4/20/2015 16:51:09 | 53.15 | 47.65 | 58 | 1.86 | 1.12 | 3.2 |
| 4/20/2015 16:51:15 | 53.48 | 47.98 | 66 | 1.85 | 1.13 | 3.6 |
| 4/20/2015 16:51:19 | 53.81 | 48.31 | 86 | 1.84 | 1.10 | 4.7 |
| 4/20/2015 16:51:24 | 54.13 | 48.63 | 74 | 1.84 | 1.14 | 4.1 |
| 4/20/2015 16:51:29 | 54.46 | 48.96 | 69 | 1.85 | 1.13 | 3.8 |
| 4/20/2015 16:51:34 | 54.79 | 49.29 | 63 | 1.85 | 1.13 | 3.4 |
| 4/20/2015 16:51:42 | 55.12 | 49.62 | 52 | 1.85 | 1.07 | 2.8 |
| 4/20/2015 16:51:44 | 55.26 | 49.76 | 52 | 1.83 | 1.15 | 2.8 |

## E108 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:47:41

**End Date:**
4/20/2015 16:53:33

**Operator Note:**
'5.5 5.6 c Auto Complete'

**Northing:**
368,742.51

**Easting:**
253,461.03

**Tide (feet):**
5.50



## Hole: E109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:24:08 | 33.14 | 30.14 | 1,097 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 10:24:08 | 33.46 | 30.46 | 1,100 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 10:24:08 | 33.79 | 30.79 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:24:09 | 34.12 | 31.12 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:24:09 | 34.45 | 31.45 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:24:09 | 34.78 | 31.78 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:24:10 | 35.11 | 32.11 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:24:10 | 35.43 | 32.43 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:10 | 35.76 | 32.76 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:10 | 36.09 | 33.09 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:24:11 | 36.42 | 33.42 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:11 | 36.75 | 33.75 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:11 | 37.07 | 34.07 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:12 | 37.40 | 34.40 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:24:12 | 37.73 | 34.73 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:24:12 | 38.06 | 35.06 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:13 | 38.39 | 35.39 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:13 | 38.71 | 35.71 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:24:13 | 39.04 | 36.04 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:14 | 39.37 | 36.37 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:14 | 39.70 | 36.70 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:15 | 40.03 | 37.03 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:15 | 40.35 | 37.35 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:24:15 | 40.68 | 37.68 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:24:16 | 41.01 | 38.01 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:24:16 | 41.34 | 38.34 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:24:16 | 41.67 | 38.67 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:24:17 | 41.99 | 38.99 | 1,066 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 10:24:17 | 42.32 | 39.32 | 1,066 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 10:24:17 | 42.65 | 39.65 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:24:18 | 42.98 | 39.98 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:24:18 | 43.31 | 40.31 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:24:18 | 43.64 | 40.64 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:24:19 | 43.96 | 40.96 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:24:19 | 44.29 | 41.29 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:24:19 | 44.62 | 41.62 | 1,083 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:24:20 | 44.95 | 41.95 | 1,083 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:24:20 | 45.28 | 42.28 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 10:24:20 | 45.60 | 42.60 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:24:21 | 45.93 | 42.93 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:24:21 | 46.26 | 43.26 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 10:24:21 | 46.59 | 43.59 | 1,058 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 10:24:22 | 46.92 | 43.92 | 1,058 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 10:24:22 | 47.24 | 44.24 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:24:22 | 47.57 | 44.57 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:24:23 | 47.90 | 44.90 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:24:23 | 48.23 | 45.23 | 1,060 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 10:24:42 | 48.56 | 45.56 | 5 | 0.43 | 0.46 | 0.3 |
| 4/20/2015 10:24:46 | 48.88 | 45.88 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 10:24:51 | 49.21 | 46.21 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 10:24:55 | 49.54 | 46.54 | 104 | 0.43 | 0.46 | 5.7 |
| 4/20/2015 10:25:00 | 49.87 | 46.87 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:25:05 | 50.20 | 47.20 | 69 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 10:25:09 | 50.53 | 47.53 | 70 | 0.43 | 0.46 | 3.9 |
| 4/20/2015 10:25:15 | 50.85 | 47.85 | 78 | 0.43 | 0.46 | 4.2 |
| 4/20/2015 10:25:20 | 51.18 | 48.18 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:25:25 | 51.51 | 48.51 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 10:25:28 | 51.84 | 48.84 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 10:25:31 | 52.17 | 49.17 | 146 | 0.43 | 0.46 | 8.0 |
| 4/20/2015 10:25:35 | 52.49 | 49.49 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 10:25:40 | 52.82 | 49.82 | 61 | 0.43 | 0.46 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 10:25:47 | 53.15 | 50.15 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 | 10:25:51 | 53.48 | 50.48 | 72 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 | 10:25:57 | 53.81 | 50.81 | 63 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:26:03 | 54.13 | 51.13 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:26:07 | 54.46 | 51.46 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 10:26:13 | 54.79 | 51.79 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:26:19 | 55.12 | 52.12 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:26:25 | 55.45 | 52.45 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:26:29 | 55.77 | 52.77 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 | 10:26:35 | 56.10 | 53.10 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 10:26:40 | 56.43 | 53.43 | 67 | 0.43 | 0.46 | 3.6 |
| 4/20/2015 | 10:26:46 | 56.76 | 53.76 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 | 10:26:52 | 57.09 | 54.09 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 | 10:26:58 | 57.41 | 54.41 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:27:02 | 57.66 | 54.66 | 52 | 0.43 | 0.46 | 2.8 |

## E109 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:22:35

**End Date:**
4/20/2015 10:29:59

**Operator Note:**
'3 2.7 b Bed roc @ 56"

**Northing:**
368,782.25

**Easting:**
253,513.44

**Tide (feet):**
3.00



## Hole: E11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 23:18:32 | 34.45 | 30.15 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 23:18:32 | 34.78 | 30.48 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 23:18:33 | 35.11 | 30.81 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 23:18:33 | 35.43 | 31.13 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 23:18:34 | 35.76 | 31.46 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 23:18:34 | 36.09 | 31.79 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 23:18:34 | 36.42 | 32.12 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 23:19:04 | 36.75 | 32.45 | 71 | 1.93 | 0.22 | 3.9 |
| 4/19/2015 23:19:06 | 37.07 | 32.77 | 217 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 23:19:08 | 37.40 | 33.10 | 200 | 1.93 | 0.22 | 11.0 |
| 4/19/2015 23:19:09 | 37.73 | 33.43 | 220 | 1.93 | 0.22 | 12.1 |
| 4/19/2015 23:19:10 | 38.06 | 33.76 | 252 | 1.93 | 0.22 | 13.8 |
| 4/19/2015 23:19:12 | 38.39 | 34.09 | 349 | 1.93 | 0.22 | 19.1 |
| 4/19/2015 23:19:12 | 38.71 | 34.41 | 377 | 1.93 | 0.22 | 20.6 |
| 4/19/2015 23:19:14 | 39.04 | 34.74 | 383 | 1.93 | 0.22 | 20.9 |
| 4/19/2015 23:19:15 | 39.37 | 35.07 | 336 | 1.93 | 0.22 | 18.4 |
| 4/19/2015 23:19:16 | 39.70 | 35.40 | 306 | 1.93 | 0.22 | 16.7 |
| 4/19/2015 23:19:17 | 40.03 | 35.73 | 280 | 1.93 | 0.22 | 15.3 |
| 4/19/2015 23:19:19 | 40.35 | 36.05 | 192 | 1.93 | 0.22 | 10.5 |
| 4/19/2015 23:19:20 | 40.68 | 36.38 | 249 | 1.93 | 0.22 | 13.6 |
| 4/19/2015 23:19:22 | 41.01 | 36.71 | 255 | 1.93 | 0.22 | 13.9 |
| 4/19/2015 23:19:30 | 41.34 | 37.04 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 23:19:35 | 41.67 | 37.37 | 33 | 1.93 | 0.22 | 1.8 |
| 4/19/2015 23:19:37 | 41.99 | 37.69 | 165 | 1.93 | 0.22 | 9.0 |
| 4/19/2015 23:19:41 | 42.32 | 38.02 | 17 | 1.93 | 0.22 | 0.9 |
| 4/19/2015 23:19:46 | 42.65 | 38.35 | 69 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 23:20:09 | 42.98 | 38.68 | 37 | 1.93 | 0.22 | 2.0 |
| 4/19/2015 23:20:11 | 43.31 | 39.01 | 76 | 1.93 | 0.22 | 4.2 |
| 4/19/2015 23:20:12 | 43.64 | 39.34 | 250 | 1.93 | 0.22 | 13.7 |
| 4/19/2015 23:20:48 | 43.96 | 39.66 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 23:21:00 | 44.29 | 39.99 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 23:21:09 | 44.62 | 40.32 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 23:21:16 | 44.95 | 40.65 | 50 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 23:21:22 | 45.28 | 40.98 | 43 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:21:27 | 45.51 | 41.21 | 46 | 1.93 | 0.22 | 2.5 |

## E11 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/19/2015 23:14:52

**End Date:**
4/19/2015 23:25:05

**Operator Note:**
'4.3 '3.2 3.6 b Auto Complete'

**Northing:**
369,228.32

**Easting:**
253,472.14

**Tide (feet):**
4.30



## Hole: E110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:17:59 | 33.14 | 30.24 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:17:59 | 33.46 | 30.56 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:17:59 | 33.79 | 30.89 | 1,102 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 10:18:00 | 34.12 | 31.22 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:18:00 | 34.45 | 31.55 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:18:00 | 34.78 | 31.88 | 1,096 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 10:18:01 | 35.11 | 32.21 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:01 | 35.43 | 32.53 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:01 | 35.76 | 32.86 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:18:02 | 36.09 | 33.19 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:18:02 | 36.42 | 33.52 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:02 | 36.75 | 33.85 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:18:03 | 37.07 | 34.17 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:18:03 | 37.40 | 34.50 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:03 | 37.73 | 34.83 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:04 | 38.06 | 35.16 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:04 | 38.39 | 35.49 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:04 | 38.71 | 35.81 | 1,087 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 10:18:04 | 39.04 | 36.14 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:18:05 | 39.37 | 36.47 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:18:05 | 39.70 | 36.80 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:18:05 | 40.03 | 37.13 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:18:06 | 40.35 | 37.45 | 1,100 | 0.43 | 0.46 | 60.1 |
| 4/20/2015 10:18:07 | 40.68 | 37.78 | 1,100 | 0.43 | 0.46 | 60.1 |
| 4/20/2015 10:18:07 | 41.01 | 38.11 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:18:07 | 41.34 | 38.44 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 10:18:08 | 41.67 | 38.77 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 10:18:08 | 41.99 | 39.09 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:18:08 | 42.32 | 39.42 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:18:08 | 42.65 | 39.75 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:18:09 | 42.98 | 40.08 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:18:09 | 43.31 | 40.41 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:18:09 | 43.64 | 40.74 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:10 | 43.96 | 41.06 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:18:10 | 44.29 | 41.39 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:18:10 | 44.62 | 41.72 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:18:11 | 44.95 | 42.05 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:18:11 | 45.28 | 42.38 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:18:11 | 45.60 | 42.70 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:18:12 | 45.93 | 43.03 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:18:12 | 46.26 | 43.36 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:18:12 | 46.59 | 43.69 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:13 | 46.92 | 44.02 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:13 | 47.24 | 44.34 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:18:13 | 47.57 | 44.67 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:14 | 47.90 | 45.00 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:14 | 48.23 | 45.33 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:18:14 | 48.56 | 45.66 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:18:25 | 48.88 | 45.98 | 100 | 0.43 | 0.46 | 5.5 |
| 4/20/2015 10:18:26 | 49.21 | 46.31 | 179 | 0.43 | 0.46 | 9.8 |
| 4/20/2015 10:18:27 | 49.54 | 46.64 | 320 | 0.43 | 0.46 | 17.5 |
| 4/20/2015 10:18:36 | 49.87 | 46.97 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 10:18:36 | 50.20 | 47.30 | 167 | 0.43 | 0.46 | 9.1 |
| 4/20/2015 10:18:45 | 50.53 | 47.63 | 9 | 0.43 | 0.46 | 0.5 |
| 4/20/2015 10:18:50 | 50.85 | 47.95 | 95 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 10:18:54 | 51.18 | 48.28 | 96 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 10:18:57 | 51.51 | 48.61 | 116 | 0.43 | 0.46 | 6.3 |
| 4/20/2015 10:18:59 | 51.84 | 48.94 | 129 | 0.43 | 0.46 | 7.1 |
| 4/20/2015 10:19:03 | 52.17 | 49.27 | 111 | 0.43 | 0.46 | 6.1 |
| 4/20/2015 10:19:07 | 52.49 | 49.59 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 10:19:11 | 52.82 | 49.92 | 90 | 0.43 | 0.46 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 10:19:15 | 53.15 | 50.25 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 | 10:19:18 | 53.48 | 50.58 | 97 | 0.43 | 0.46 | 5.3 |
| 4/20/2015 | 10:19:22 | 53.81 | 50.91 | 86 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 | 10:19:27 | 54.13 | 51.23 | 95 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 | 10:19:30 | 54.46 | 51.56 | 97 | 0.43 | 0.46 | 5.3 |
| 4/20/2015 | 10:19:34 | 54.79 | 51.89 | 96 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 | 10:19:38 | 55.12 | 52.22 | 99 | 0.43 | 0.46 | 5.4 |
| 4/20/2015 | 10:19:42 | 55.45 | 52.55 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 | 10:19:46 | 55.77 | 52.87 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 | 10:19:51 | 56.10 | 53.20 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 | 10:19:55 | 56.43 | 53.53 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 | 10:20:01 | 56.76 | 53.86 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 | 10:20:06 | 57.09 | 54.19 | 69 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 10:20:10 | 57.41 | 54.51 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 | 10:20:11 | 57.50 | 54.60 | 76 | 0.43 | 0.46 | 4.1 |

## E110 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:16:46

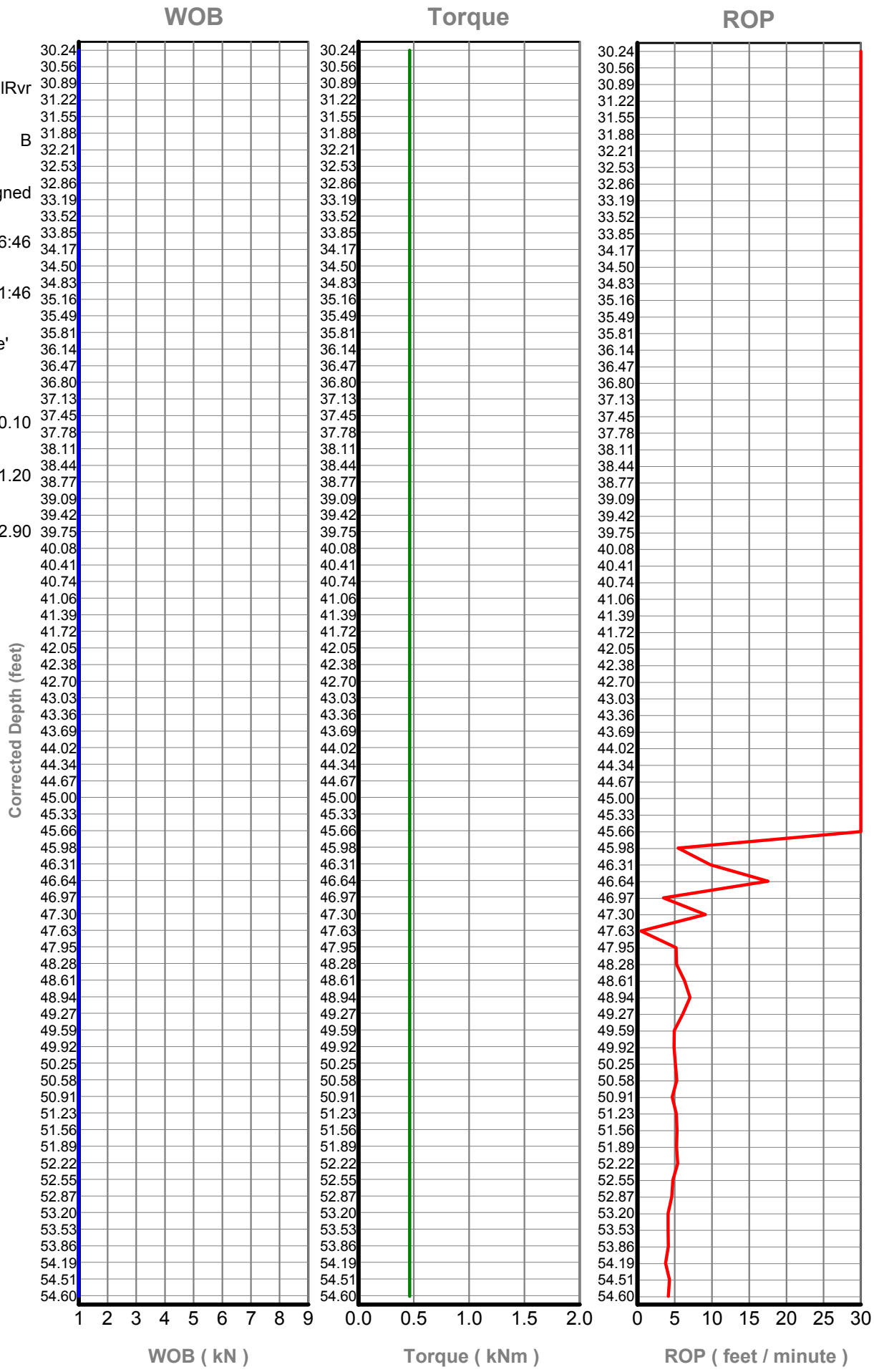
**End Date:**
4/20/2015 10:21:46

**Operator Note:**
'2.9 2.4 b Auto Complete'

**Northing:**
368,830.10

**Easting:**
253,571.20

**Tide (feet):**
2.90



## Hole: E111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:12:38 | 32.81 | 30.11 | 1,122 | 0.43 | 0.46 | 61.4 |
| 4/20/2015 10:12:39 | 33.14 | 30.44 | 1,120 | 0.43 | 0.46 | 61.2 |
| 4/20/2015 10:12:40 | 33.46 | 30.76 | 1,120 | 0.43 | 0.46 | 61.2 |
| 4/20/2015 10:12:40 | 33.79 | 31.09 | 1,119 | 0.43 | 0.46 | 61.2 |
| 4/20/2015 10:12:40 | 34.12 | 31.42 | 1,120 | 0.43 | 0.46 | 61.2 |
| 4/20/2015 10:12:41 | 34.45 | 31.75 | 1,120 | 0.43 | 0.46 | 61.2 |
| 4/20/2015 10:12:41 | 34.78 | 32.08 | 1,110 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:41 | 35.11 | 32.41 | 1,110 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:41 | 35.43 | 32.73 | 1,111 | 0.43 | 0.46 | 60.8 |
| 4/20/2015 10:12:42 | 35.76 | 33.06 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:12:42 | 36.09 | 33.39 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:12:42 | 36.42 | 33.72 | 1,111 | 0.43 | 0.46 | 60.8 |
| 4/20/2015 10:12:43 | 36.75 | 34.05 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:43 | 37.07 | 34.37 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:43 | 37.40 | 34.70 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:44 | 37.73 | 35.03 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:44 | 38.06 | 35.36 | 1,111 | 0.43 | 0.46 | 60.8 |
| 4/20/2015 10:12:44 | 38.39 | 35.69 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:45 | 38.71 | 36.01 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:45 | 39.04 | 36.34 | 1,110 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:45 | 39.37 | 36.67 | 1,110 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 10:12:45 | 39.70 | 37.00 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:12:46 | 40.03 | 37.33 | 1,117 | 0.43 | 0.46 | 61.1 |
| 4/20/2015 10:12:46 | 40.35 | 37.65 | 1,117 | 0.43 | 0.46 | 61.1 |
| 4/20/2015 10:12:46 | 40.68 | 37.98 | 1,113 | 0.43 | 0.46 | 60.9 |
| 4/20/2015 10:12:47 | 41.01 | 38.31 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:12:47 | 41.34 | 38.64 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:12:47 | 41.67 | 38.97 | 1,108 | 0.43 | 0.46 | 60.6 |
| 4/20/2015 10:12:48 | 41.99 | 39.29 | 1,108 | 0.43 | 0.46 | 60.6 |
| 4/20/2015 10:12:48 | 42.32 | 39.62 | 1,108 | 0.43 | 0.46 | 60.6 |
| 4/20/2015 10:12:48 | 42.65 | 39.95 | 1,102 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 10:12:49 | 42.98 | 40.28 | 1,102 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 10:12:49 | 43.31 | 40.61 | 1,099 | 0.43 | 0.46 | 60.1 |
| 4/20/2015 10:12:49 | 43.64 | 40.94 | 1,109 | 0.43 | 0.46 | 60.6 |
| 4/20/2015 10:12:50 | 43.96 | 41.26 | 1,109 | 0.43 | 0.46 | 60.6 |
| 4/20/2015 10:12:50 | 44.29 | 41.59 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:50 | 44.62 | 41.92 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:50 | 44.95 | 42.25 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:51 | 45.28 | 42.58 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:52 | 45.60 | 42.90 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:52 | 45.93 | 43.23 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:52 | 46.26 | 43.56 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:52 | 46.59 | 43.89 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:53 | 46.92 | 44.22 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:53 | 47.24 | 44.54 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:53 | 47.57 | 44.87 | 1,105 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 10:12:54 | 47.90 | 45.20 | 1,089 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:12:54 | 48.23 | 45.53 | 1,089 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:13:09 | 48.56 | 45.86 | 6 | 0.43 | 0.46 | 0.3 |
| 4/20/2015 10:13:14 | 48.88 | 46.18 | 46 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 10:13:15 | 49.21 | 46.51 | 183 | 0.43 | 0.46 | 10.0 |
| 4/20/2015 10:13:16 | 49.54 | 46.84 | 277 | 0.43 | 0.46 | 15.1 |
| 4/20/2015 10:13:16 | 49.87 | 47.17 | 277 | 0.43 | 0.46 | 15.1 |
| 4/20/2015 10:13:17 | 50.20 | 47.50 | 382 | 0.43 | 0.46 | 20.9 |
| 4/20/2015 10:13:18 | 50.53 | 47.83 | 424 | 0.43 | 0.46 | 23.2 |
| 4/20/2015 10:13:18 | 50.85 | 48.15 | 483 | 0.43 | 0.46 | 26.4 |
| 4/20/2015 10:13:19 | 51.18 | 48.48 | 531 | 0.43 | 0.46 | 29.1 |
| 4/20/2015 10:13:20 | 51.51 | 48.81 | 600 | 0.43 | 0.46 | 32.8 |
| 4/20/2015 10:13:29 | 51.84 | 49.14 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 10:13:30 | 52.17 | 49.47 | 138 | 0.43 | 0.46 | 7.6 |
| 4/20/2015 10:13:32 | 52.49 | 49.79 | 262 | 0.43 | 0.46 | 14.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 10:13:34 | 52.82 | 50.12 | 191 | 0.43 | 0.46 | 10.4 |
| 4/20/2015 | 10:13:36 | 53.15 | 50.45 | 171 | 0.43 | 0.46 | 9.4 |
| 4/20/2015 | 10:13:39 | 53.48 | 50.78 | 154 | 0.43 | 0.46 | 8.4 |
| 4/20/2015 | 10:13:41 | 53.81 | 51.11 | 154 | 0.43 | 0.46 | 8.4 |
| 4/20/2015 | 10:13:43 | 54.13 | 51.43 | 137 | 0.43 | 0.46 | 7.5 |
| 4/20/2015 | 10:13:46 | 54.46 | 51.76 | 141 | 0.43 | 0.46 | 7.7 |
| 4/20/2015 | 10:13:48 | 54.79 | 52.09 | 145 | 0.43 | 0.46 | 7.9 |
| 4/20/2015 | 10:13:51 | 55.12 | 52.42 | 150 | 0.43 | 0.46 | 8.2 |
| 4/20/2015 | 10:13:53 | 55.45 | 52.75 | 159 | 0.43 | 0.46 | 8.7 |
| 4/20/2015 | 10:13:55 | 55.77 | 53.07 | 153 | 0.43 | 0.46 | 8.4 |
| 4/20/2015 | 10:13:57 | 56.10 | 53.40 | 165 | 0.43 | 0.46 | 9.0 |
| 4/20/2015 | 10:14:00 | 56.43 | 53.73 | 151 | 0.43 | 0.46 | 8.2 |
| 4/20/2015 | 10:14:03 | 56.76 | 54.06 | 115 | 0.43 | 0.46 | 6.3 |
| 4/20/2015 | 10:14:06 | 57.09 | 54.39 | 110 | 0.43 | 0.46 | 6.0 |
| 4/20/2015 | 10:14:09 | 57.41 | 54.71 | 141 | 0.43 | 0.46 | 7.7 |
| 4/20/2015 | 10:14:09 | 57.45 | 54.75 | 141 | 0.43 | 0.46 | 7.7 |

## E111 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:11:02

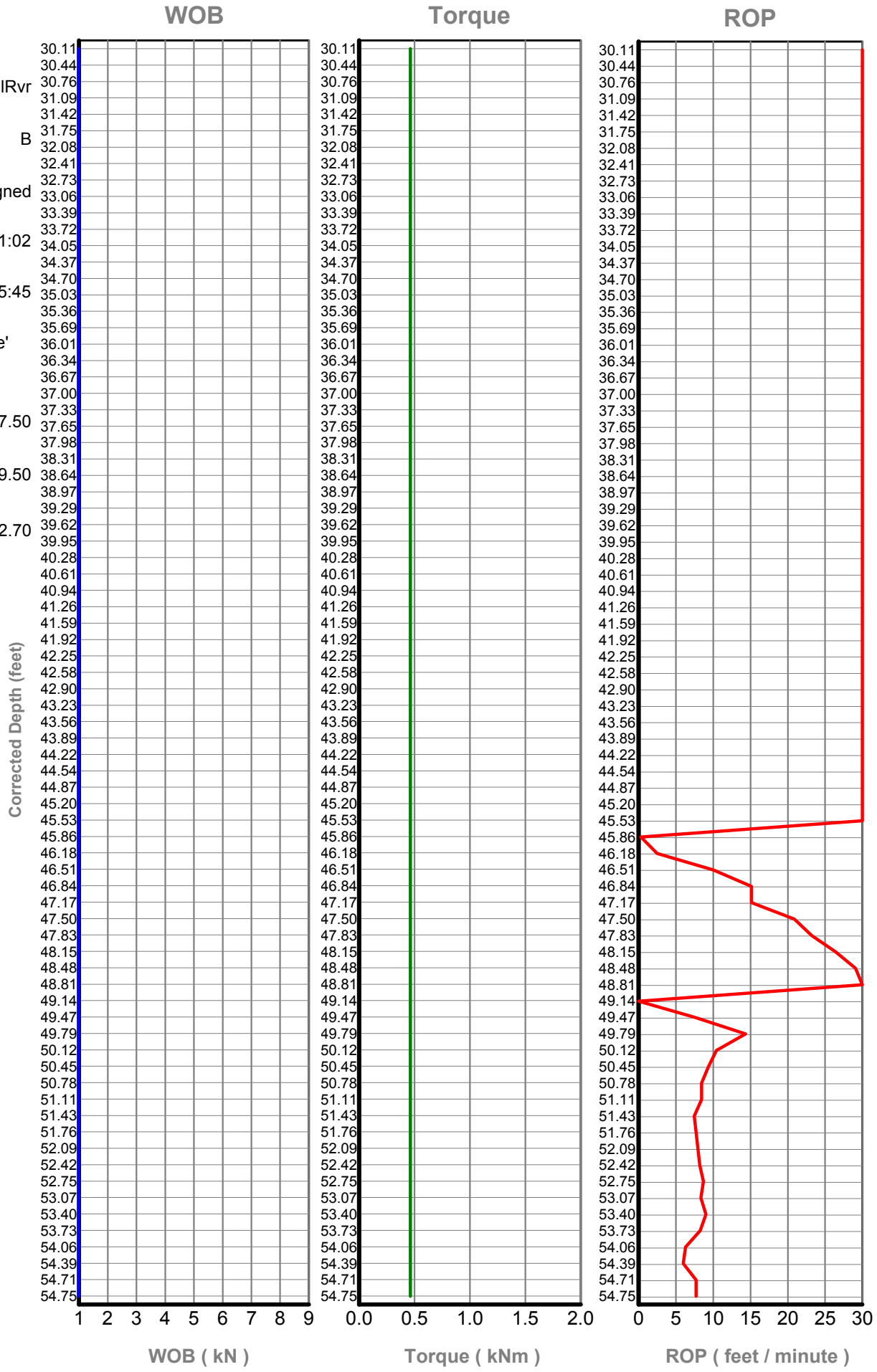
**End Date:**
4/20/2015 10:15:45

**Operator Note:**
'2.7 2.4 b Auto Complete'

**Northing:**
368,877.50

**Easting:**
253,629.50

**Tide (feet):**
2.70



## Hole: E112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 5:36:17 | 35.11 | 30.21 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:36:17 | 35.43 | 30.53 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:17 | 35.76 | 30.86 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:18 | 36.09 | 31.19 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:18 | 36.42 | 31.52 | 979 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 5:36:18 | 36.75 | 31.85 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 5:36:19 | 37.07 | 32.17 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:19 | 37.40 | 32.50 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:19 | 37.73 | 32.83 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 5:36:20 | 38.06 | 33.16 | 996 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:36:20 | 38.39 | 33.49 | 996 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:36:20 | 38.71 | 33.81 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:21 | 39.04 | 34.14 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:21 | 39.37 | 34.47 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:21 | 39.70 | 34.80 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:22 | 40.03 | 35.13 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:22 | 40.35 | 35.45 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:23 | 40.68 | 35.78 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:23 | 41.01 | 36.11 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 5:36:23 | 41.34 | 36.44 | 988 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 5:36:24 | 41.67 | 36.77 | 988 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 5:36:24 | 41.99 | 37.09 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:24 | 42.32 | 37.42 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:25 | 42.65 | 37.75 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:25 | 42.98 | 38.08 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 5:36:26 | 43.31 | 38.41 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:26 | 43.64 | 38.74 | 972 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:36:26 | 43.96 | 39.06 | 972 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:36:27 | 44.29 | 39.39 | 972 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:36:27 | 44.62 | 39.72 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:28 | 44.95 | 40.05 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:28 | 45.28 | 40.38 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:36:28 | 45.60 | 40.70 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:29 | 45.93 | 41.03 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:29 | 46.26 | 41.36 | 971 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:36:29 | 46.59 | 41.69 | 991 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:36:30 | 46.92 | 42.02 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:36:30 | 47.24 | 42.34 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:36:30 | 47.57 | 42.67 | 987 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:31 | 47.90 | 43.00 | 987 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:31 | 48.23 | 43.33 | 987 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:31 | 48.56 | 43.66 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 5:36:32 | 48.88 | 43.98 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:32 | 49.21 | 44.31 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:32 | 49.54 | 44.64 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:36:33 | 49.87 | 44.97 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:36:33 | 50.20 | 45.30 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:36:34 | 50.53 | 45.63 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:36:50 | 50.85 | 45.95 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 5:36:51 | 51.18 | 46.28 | 74 | 1.93 | 0.22 | 4.0 |
| 4/20/2015 5:36:51 | 51.51 | 46.61 | 231 | 1.93 | 0.22 | 12.6 |
| 4/20/2015 5:36:52 | 51.84 | 46.94 | 392 | 1.93 | 0.22 | 21.5 |
| 4/20/2015 5:36:52 | 52.17 | 47.27 | 516 | 1.93 | 0.22 | 28.2 |
| 4/20/2015 5:37:11 | 52.49 | 47.59 | 41 | 1.93 | 0.22 | 2.3 |
| 4/20/2015 5:38:07 | 52.82 | 47.92 | 12 | 1.93 | 0.22 | 0.6 |
| 4/20/2015 5:38:21 | 53.15 | 48.25 | 9 | 1.93 | 0.22 | 0.5 |
| 4/20/2015 5:38:22 | 53.48 | 48.58 | 70 | 1.93 | 0.22 | 3.8 |
| 4/20/2015 5:38:36 | 53.81 | 48.91 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 5:38:43 | 54.13 | 49.23 | 29 | 1.93 | 0.22 | 1.6 |
| 4/20/2015 5:38:50 | 54.46 | 49.56 | 79 | 1.93 | 0.22 | 4.3 |
| 4/20/2015 5:38:51 | 54.79 | 49.89 | 151 | 1.93 | 0.22 | 8.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 5:38:53 | 55.12 | 50.22 | 201 | 1.93 | 0.22 | 11.0 |
| 4/20/2015 | 5:38:54 | 55.45 | 50.55 | 245 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 | 5:39:12 | 55.77 | 50.87 | 119 | 1.93 | 0.22 | 6.5 |
| 4/20/2015 | 5:39:13 | 56.10 | 51.20 | 170 | 1.93 | 0.22 | 9.3 |
| 4/20/2015 | 5:39:15 | 56.43 | 51.53 | 199 | 1.93 | 0.22 | 10.9 |
| 4/20/2015 | 5:39:46 | 56.76 | 51.86 | 101 | 1.93 | 0.22 | 5.5 |
| 4/20/2015 | 5:39:48 | 57.09 | 52.19 | 157 | 1.93 | 0.22 | 8.6 |
| 4/20/2015 | 5:39:51 | 57.41 | 52.51 | 129 | 1.93 | 0.22 | 7.0 |
| 4/20/2015 | 5:39:53 | 57.74 | 52.84 | 154 | 1.93 | 0.22 | 8.4 |
| 4/20/2015 | 5:39:55 | 58.07 | 53.17 | 166 | 1.93 | 0.22 | 9.1 |
| 4/20/2015 | 5:39:59 | 58.40 | 53.50 | 116 | 1.93 | 0.22 | 6.4 |
| 4/20/2015 | 5:40:02 | 58.73 | 53.83 | 131 | 1.93 | 0.22 | 7.2 |
| 4/20/2015 | 5:40:04 | 59.06 | 54.16 | 128 | 1.93 | 0.22 | 7.0 |
| 4/20/2015 | 5:40:07 | 59.38 | 54.48 | 125 | 1.93 | 0.22 | 6.8 |
| 4/20/2015 | 5:40:11 | 59.71 | 54.81 | 108 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 | 5:40:14 | 60.04 | 55.14 | 111 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 | 5:40:15 | 60.17 | 55.27 | 111 | 1.93 | 0.22 | 6.0 |

## E112 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 5:34:40

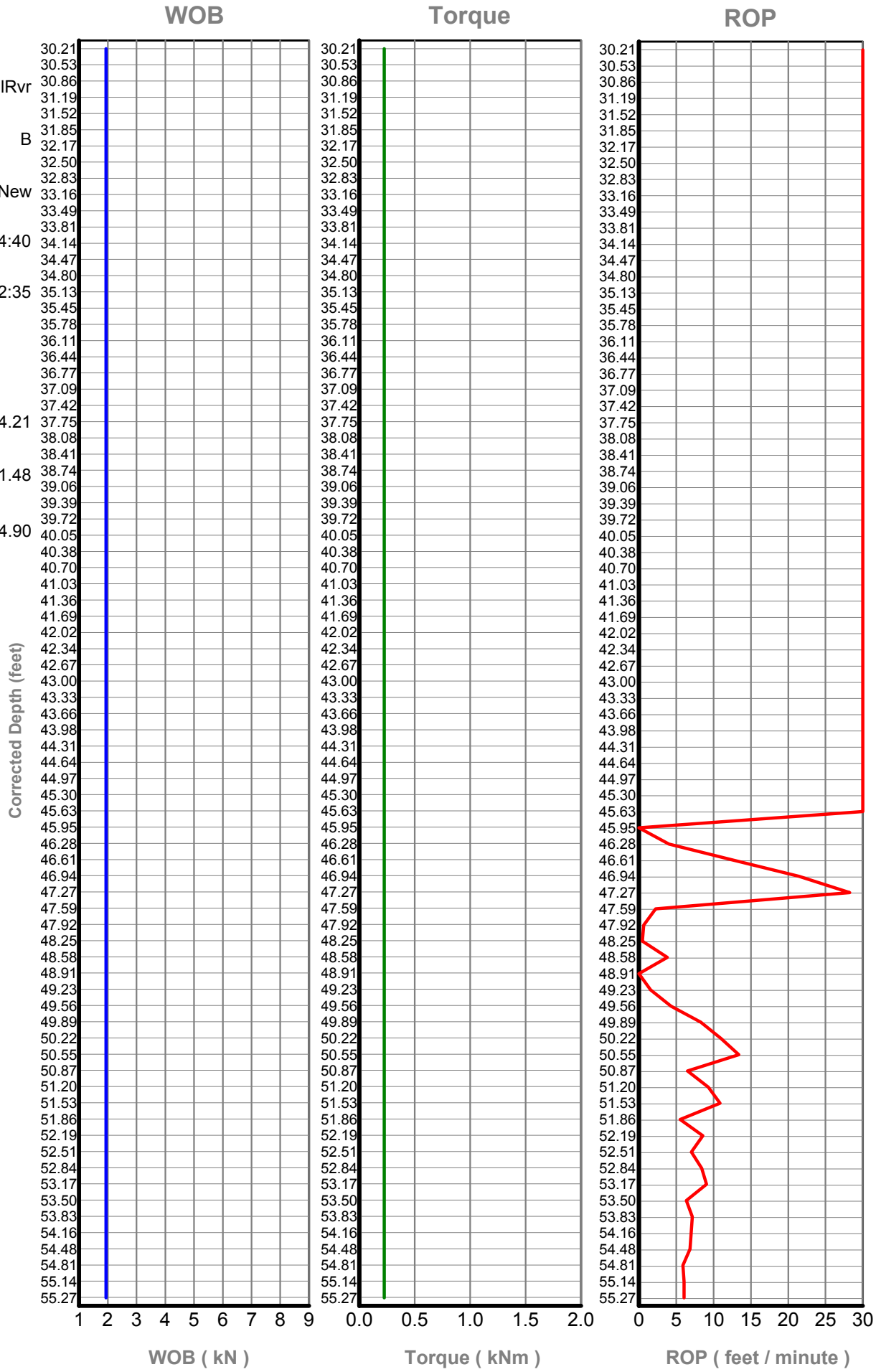
**End Date:**
4/20/2015 5:42:35

**Operator Note:**
'4.9 5.15 b Auto Complete'

**Northing:**
368,924.21

**Easting:**
253,691.48

**Tide (feet):**
4.90



## Hole: E113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 5:48:06 | 34.78 | 30.18 | 449 | 1.93 | 0.22 | 24.5 |
| 4/20/2015 5:48:06 | 35.11 | 30.51 | 640 | 1.93 | 0.22 | 35.0 |
| 4/20/2015 5:48:07 | 35.43 | 30.83 | 823 | 1.93 | 0.22 | 45.0 |
| 4/20/2015 5:48:07 | 35.76 | 31.16 | 931 | 1.93 | 0.22 | 50.9 |
| 4/20/2015 5:48:08 | 36.09 | 31.49 | 931 | 1.93 | 0.22 | 50.9 |
| 4/20/2015 5:48:08 | 36.42 | 31.82 | 945 | 1.93 | 0.22 | 51.7 |
| 4/20/2015 5:48:09 | 36.75 | 32.15 | 942 | 1.93 | 0.22 | 51.5 |
| 4/20/2015 5:48:09 | 37.07 | 32.47 | 937 | 1.93 | 0.22 | 51.2 |
| 4/20/2015 5:48:10 | 37.40 | 32.80 | 937 | 1.93 | 0.22 | 51.2 |
| 4/20/2015 5:48:10 | 37.73 | 33.13 | 948 | 1.93 | 0.22 | 51.8 |
| 4/20/2015 5:48:10 | 38.06 | 33.46 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 5:48:11 | 38.39 | 33.79 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 5:48:11 | 38.71 | 34.11 | 948 | 1.93 | 0.22 | 51.9 |
| 4/20/2015 5:48:11 | 39.04 | 34.44 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 5:48:12 | 39.37 | 34.77 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 5:48:12 | 39.70 | 35.10 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 5:48:12 | 40.03 | 35.43 | 946 | 1.93 | 0.22 | 51.7 |
| 4/20/2015 5:48:13 | 40.35 | 35.75 | 949 | 1.93 | 0.22 | 51.9 |
| 4/20/2015 5:48:13 | 40.68 | 36.08 | 957 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 5:48:14 | 41.01 | 36.41 | 957 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 5:48:14 | 41.34 | 36.74 | 952 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 5:48:14 | 41.67 | 37.07 | 957 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 5:48:15 | 41.99 | 37.39 | 957 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 5:48:15 | 42.32 | 37.72 | 963 | 1.93 | 0.22 | 52.6 |
| 4/20/2015 5:48:15 | 42.65 | 38.05 | 959 | 1.93 | 0.22 | 52.5 |
| 4/20/2015 5:48:16 | 42.98 | 38.38 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 5:48:16 | 43.31 | 38.71 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 5:48:16 | 43.64 | 39.04 | 959 | 1.93 | 0.22 | 52.5 |
| 4/20/2015 5:48:17 | 43.96 | 39.36 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 5:48:17 | 44.29 | 39.69 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 5:48:17 | 44.62 | 40.02 | 959 | 1.93 | 0.22 | 52.5 |
| 4/20/2015 5:48:18 | 44.95 | 40.35 | 952 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 5:48:18 | 45.28 | 40.68 | 963 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:48:19 | 45.60 | 41.00 | 963 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:48:19 | 45.93 | 41.33 | 963 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:48:19 | 46.26 | 41.66 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:48:20 | 46.59 | 41.99 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:48:20 | 46.92 | 42.32 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:48:36 | 47.24 | 42.64 | 32 | 1.93 | 0.22 | 1.8 |
| 4/20/2015 5:48:48 | 47.57 | 42.97 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 5:48:53 | 47.90 | 43.30 | 116 | 1.93 | 0.22 | 6.4 |
| 4/20/2015 5:48:54 | 48.23 | 43.63 | 174 | 1.93 | 0.22 | 9.5 |
| 4/20/2015 5:48:55 | 48.56 | 43.96 | 249 | 1.93 | 0.22 | 13.6 |
| 4/20/2015 5:48:56 | 48.88 | 44.28 | 374 | 1.93 | 0.22 | 20.4 |
| 4/20/2015 5:49:17 | 49.21 | 44.61 | 77 | 1.93 | 0.22 | 4.2 |
| 4/20/2015 5:49:18 | 49.54 | 44.94 | 165 | 1.93 | 0.22 | 9.0 |
| 4/20/2015 5:49:19 | 49.87 | 45.27 | 351 | 1.93 | 0.22 | 19.2 |
| 4/20/2015 5:49:19 | 50.20 | 45.60 | 457 | 1.93 | 0.22 | 25.0 |
| 4/20/2015 5:49:52 | 50.53 | 45.93 | 74 | 1.93 | 0.22 | 4.0 |
| 4/20/2015 5:49:53 | 50.85 | 46.25 | 191 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 5:49:53 | 51.18 | 46.58 | 320 | 1.93 | 0.22 | 17.5 |
| 4/20/2015 5:49:54 | 51.51 | 46.91 | 443 | 1.93 | 0.22 | 24.2 |
| 4/20/2015 5:49:54 | 51.84 | 47.24 | 569 | 1.93 | 0.22 | 31.1 |
| 4/20/2015 5:49:56 | 52.17 | 47.57 | 314 | 1.93 | 0.22 | 17.1 |
| 4/20/2015 5:49:57 | 52.49 | 47.89 | 288 | 1.93 | 0.22 | 15.7 |
| 4/20/2015 5:50:00 | 52.82 | 48.22 | 32 | 1.93 | 0.22 | 1.8 |
| 4/20/2015 5:50:02 | 53.15 | 48.55 | 191 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 5:50:05 | 53.48 | 48.88 | 176 | 1.93 | 0.22 | 9.6 |
| 4/20/2015 5:50:08 | 53.81 | 49.21 | 131 | 1.93 | 0.22 | 7.2 |
| 4/20/2015 5:50:11 | 54.13 | 49.53 | 109 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 5:50:19 | 54.46 | 49.86 | 90 | 1.93 | 0.22 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 5:50:22 | 54.79 | 50.19 | 105 | 1.93 | 0.22 | 5.7 |
| 4/20/2015 | 5:50:26 | 55.12 | 50.52 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 5:50:29 | 55.45 | 50.85 | 113 | 1.93 | 0.22 | 6.2 |
| 4/20/2015 | 5:50:33 | 55.77 | 51.17 | 69 | 1.93 | 0.22 | 3.8 |
| 4/20/2015 | 5:50:38 | 56.10 | 51.50 | 87 | 1.93 | 0.22 | 4.7 |
| 4/20/2015 | 5:50:43 | 56.43 | 51.83 | 76 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 | 5:50:46 | 56.76 | 52.16 | 115 | 1.93 | 0.22 | 6.3 |
| 4/20/2015 | 5:51:17 | 56.95 | 52.35 | 0 | 1.93 | 0.22 | 0.0 |

## E113 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 5:45:33

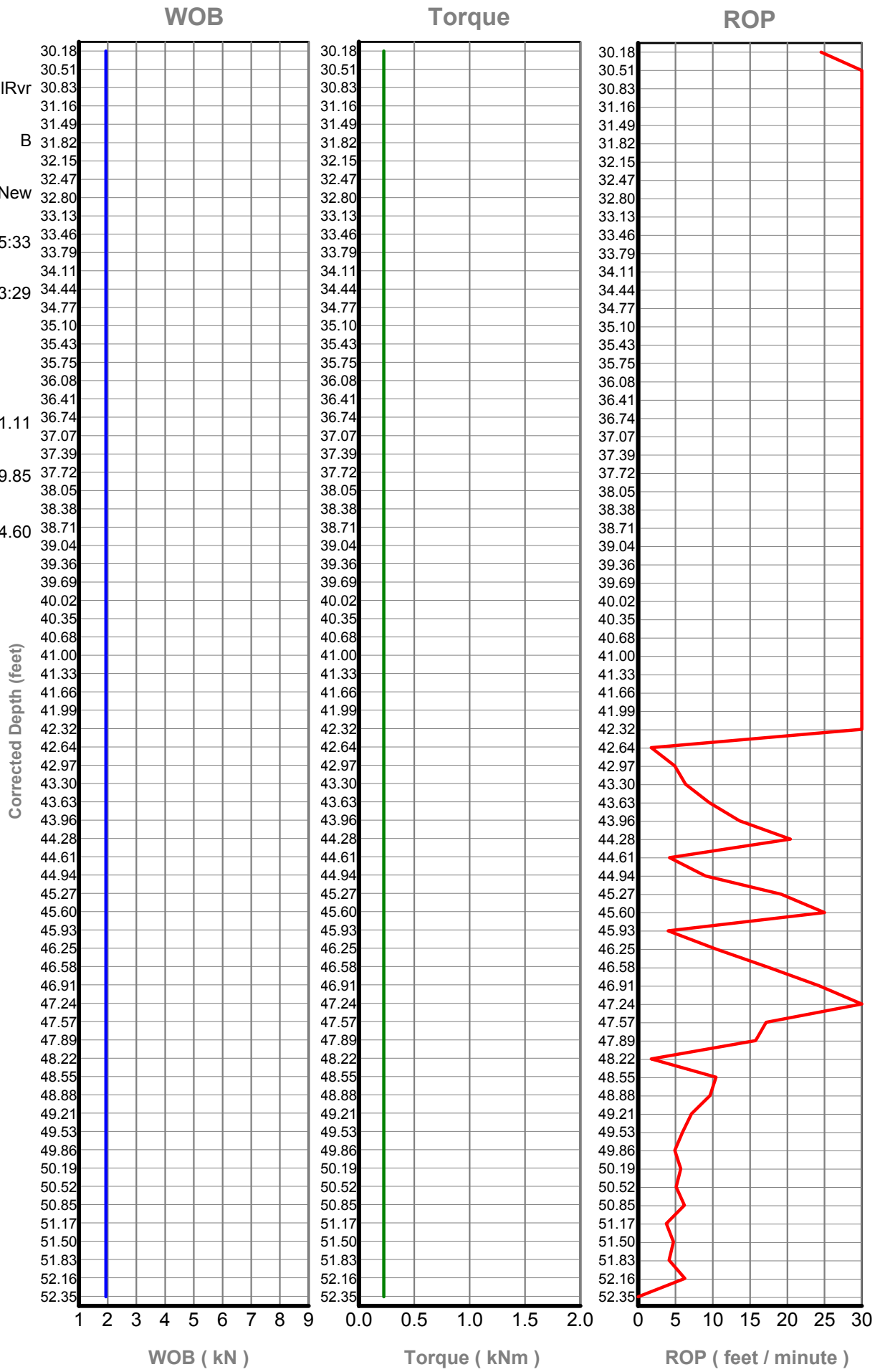
**End Date:**
4/20/2015 5:53:29

**Operator Note:**
'4.6 4.95 b Auto Complete'

**Northing:**
368,971.11

**Easting:**
253,749.85

**Tide (feet):**
4.60



## Hole: E114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 5:58:35 | 34.78 | 30.28 | 964 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:58:36 | 35.11 | 30.61 | 964 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:58:36 | 35.43 | 30.93 | 964 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:58:36 | 35.76 | 31.26 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:58:37 | 36.09 | 31.59 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:58:37 | 36.42 | 31.92 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:58:38 | 36.75 | 32.25 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:58:38 | 37.07 | 32.57 | 970 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:58:38 | 37.40 | 32.90 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 5:58:39 | 37.73 | 33.23 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 5:58:39 | 38.06 | 33.56 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 5:58:39 | 38.39 | 33.89 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:58:40 | 38.71 | 34.21 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:58:40 | 39.04 | 34.54 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:58:40 | 39.37 | 34.87 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 5:58:41 | 39.70 | 35.20 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:58:42 | 40.03 | 35.53 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:58:42 | 40.35 | 35.85 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 5:58:42 | 40.68 | 36.18 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:58:43 | 41.01 | 36.51 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 5:58:43 | 41.34 | 36.84 | 967 | 1.93 | 0.22 | 52.9 |
| 4/20/2015 5:58:43 | 41.67 | 37.17 | 964 | 1.93 | 0.22 | 52.7 |
| 4/20/2015 5:58:44 | 41.99 | 37.49 | 970 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 5:58:44 | 42.32 | 37.82 | 970 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 5:58:44 | 42.65 | 38.15 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:58:45 | 42.98 | 38.48 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:58:45 | 43.31 | 38.81 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 5:58:45 | 43.64 | 39.14 | 968 | 1.93 | 0.22 | 52.9 |
| 4/20/2015 5:58:46 | 43.96 | 39.46 | 968 | 1.93 | 0.22 | 52.9 |
| 4/20/2015 5:58:46 | 44.29 | 39.79 | 968 | 1.93 | 0.22 | 52.9 |
| 4/20/2015 5:58:46 | 44.62 | 40.12 | 968 | 1.93 | 0.22 | 52.9 |
| 4/20/2015 5:58:47 | 44.95 | 40.45 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:58:47 | 45.28 | 40.78 | 971 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:58:48 | 45.60 | 41.10 | 971 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:58:48 | 45.93 | 41.43 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 5:58:48 | 46.26 | 41.76 | 972 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:58:49 | 46.59 | 42.09 | 972 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 5:58:49 | 46.92 | 42.42 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 5:58:49 | 47.24 | 42.74 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:58:50 | 47.57 | 43.07 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:58:50 | 47.90 | 43.40 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:58:50 | 48.23 | 43.73 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 5:59:17 | 48.56 | 44.06 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 5:59:20 | 48.88 | 44.38 | 97 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 5:59:21 | 49.21 | 44.71 | 154 | 1.93 | 0.22 | 8.4 |
| 4/20/2015 5:59:22 | 49.54 | 45.04 | 348 | 1.93 | 0.22 | 19.0 |
| 4/20/2015 5:59:22 | 49.87 | 45.37 | 348 | 1.93 | 0.22 | 19.0 |
| 4/20/2015 5:59:37 | 50.20 | 45.70 | 62 | 1.93 | 0.22 | 3.4 |
| 4/20/2015 5:59:38 | 50.53 | 46.03 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 5:59:38 | 50.85 | 46.35 | 342 | 1.93 | 0.22 | 18.7 |
| 4/20/2015 5:59:40 | 51.18 | 46.68 | 471 | 1.93 | 0.22 | 25.8 |
| 4/20/2015 5:59:47 | 51.51 | 47.01 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 5:59:48 | 51.84 | 47.34 | 182 | 1.93 | 0.22 | 10.0 |
| 4/20/2015 5:59:49 | 52.17 | 47.67 | 310 | 1.93 | 0.22 | 17.0 |
| 4/20/2015 5:59:52 | 52.49 | 47.99 | 141 | 1.93 | 0.22 | 7.7 |
| 4/20/2015 5:59:52 | 52.82 | 48.32 | 141 | 1.93 | 0.22 | 7.7 |
| 4/20/2015 5:59:54 | 53.15 | 48.65 | 316 | 1.93 | 0.22 | 17.3 |
| 4/20/2015 5:59:54 | 53.48 | 48.98 | 366 | 1.93 | 0.22 | 20.0 |
| 4/20/2015 5:59:55 | 53.81 | 49.31 | 395 | 1.93 | 0.22 | 21.6 |
| 4/20/2015 6:00:59 | 54.13 | 49.63 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 6:01:00 | 54.46 | 49.96 | 124 | 1.93 | 0.22 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 6:01:02 | 54.79 | 50.29 | 244 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 | 6:01:03 | 55.12 | 50.62 | 253 | 1.93 | 0.22 | 13.8 |
| 4/20/2015 | 6:01:46 | 55.45 | 50.95 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 6:02:39 | 55.77 | 51.27 | 69 | 1.93 | 0.22 | 3.8 |
| 4/20/2015 | 6:02:43 | 56.10 | 51.60 | 96 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 | 6:02:50 | 56.43 | 51.93 | 94 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 6:02:53 | 56.76 | 52.26 | 127 | 1.93 | 0.22 | 7.0 |
| 4/20/2015 | 6:02:54 | 57.09 | 52.59 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 | 6:02:56 | 57.41 | 52.91 | 215 | 1.93 | 0.22 | 11.8 |
| 4/20/2015 | 6:02:57 | 57.74 | 53.24 | 207 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 | 6:02:59 | 58.07 | 53.57 | 212 | 1.93 | 0.22 | 11.6 |
| 4/20/2015 | 6:03:02 | 58.40 | 53.90 | 160 | 1.93 | 0.22 | 8.7 |
| 4/20/2015 | 6:03:06 | 58.73 | 54.23 | 87 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 6:03:09 | 59.06 | 54.56 | 98 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 | 6:03:14 | 59.38 | 54.88 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 6:03:17 | 59.71 | 55.21 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 6:03:20 | 59.90 | 55.40 | 92 | 1.93 | 0.22 | 5.0 |

## E114 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 5:57:11

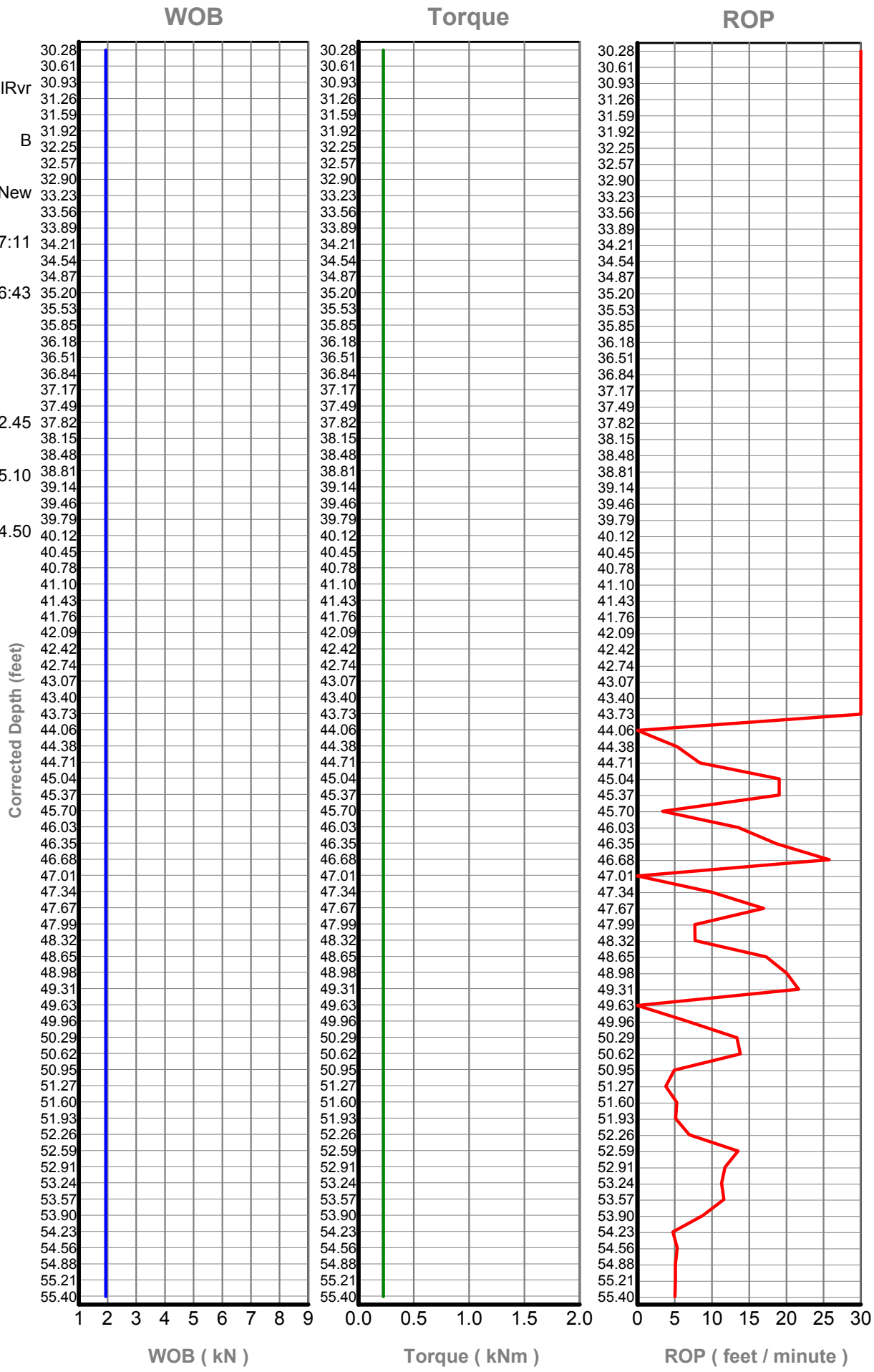
**End Date:**
4/20/2015 6:06:43

**Operator Note:**
'4.5 4.90 b Auto Complete'

**Northing:**
369,022.45

**Easting:**
253,815.10

**Tide (feet):**
4.50



## Hole: E115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 17:31:55 | 33.79 | 30.29 | 964 | 0.31 | 0.34 | 52.7 |
| 4/19/2015 17:31:56 | 34.12 | 30.62 | 964 | 0.31 | 0.34 | 52.7 |
| 4/19/2015 17:31:56 | 34.45 | 30.95 | 978 | 0.31 | 0.34 | 53.5 |
| 4/19/2015 17:31:57 | 34.78 | 31.28 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 17:31:57 | 35.11 | 31.61 | 936 | 0.31 | 0.34 | 51.2 |
| 4/19/2015 17:31:57 | 35.43 | 31.93 | 936 | 0.31 | 0.34 | 51.2 |
| 4/19/2015 17:31:58 | 35.76 | 32.26 | 936 | 0.31 | 0.34 | 51.2 |
| 4/19/2015 17:31:58 | 36.09 | 32.59 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 17:31:59 | 36.42 | 32.92 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 17:31:59 | 36.75 | 33.25 | 966 | 0.31 | 0.34 | 52.8 |
| 4/19/2015 17:31:59 | 37.07 | 33.57 | 927 | 0.31 | 0.34 | 50.7 |
| 4/19/2015 17:32:00 | 37.40 | 33.90 | 940 | 0.31 | 0.34 | 51.4 |
| 4/19/2015 17:32:00 | 37.73 | 34.23 | 940 | 0.31 | 0.34 | 51.4 |
| 4/19/2015 17:32:00 | 38.06 | 34.56 | 940 | 0.31 | 0.34 | 51.4 |
| 4/19/2015 17:32:01 | 38.39 | 34.89 | 964 | 0.31 | 0.34 | 52.7 |
| 4/19/2015 17:32:01 | 38.71 | 35.21 | 964 | 0.31 | 0.34 | 52.7 |
| 4/19/2015 17:32:01 | 39.04 | 35.54 | 945 | 0.31 | 0.34 | 51.7 |
| 4/19/2015 17:32:02 | 39.37 | 35.87 | 918 | 0.31 | 0.34 | 50.2 |
| 4/19/2015 17:32:02 | 39.70 | 36.20 | 918 | 0.31 | 0.33 | 50.2 |
| 4/19/2015 17:32:03 | 40.03 | 36.53 | 918 | 0.31 | 0.33 | 50.2 |
| 4/19/2015 17:32:03 | 40.35 | 36.85 | 956 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 17:32:03 | 40.68 | 37.18 | 945 | 0.31 | 0.34 | 51.6 |
| 4/19/2015 17:32:04 | 41.01 | 37.51 | 945 | 0.31 | 0.34 | 51.6 |
| 4/19/2015 17:32:04 | 41.34 | 37.84 | 922 | 0.31 | 0.34 | 50.4 |
| 4/19/2015 17:32:04 | 41.67 | 38.17 | 922 | 0.31 | 0.34 | 50.4 |
| 4/19/2015 17:32:05 | 41.99 | 38.49 | 922 | 0.32 | 0.34 | 50.4 |
| 4/19/2015 17:32:05 | 42.32 | 38.82 | 922 | 0.32 | 0.34 | 50.4 |
| 4/19/2015 17:32:05 | 42.65 | 39.15 | 922 | 0.37 | 0.34 | 50.4 |
| 4/19/2015 17:32:06 | 42.98 | 39.48 | 950 | 0.32 | 0.34 | 51.9 |
| 4/19/2015 17:32:06 | 43.31 | 39.81 | 924 | 0.31 | 0.34 | 50.5 |
| 4/19/2015 17:32:07 | 43.64 | 40.14 | 924 | 0.31 | 0.34 | 50.5 |
| 4/19/2015 17:32:07 | 43.96 | 40.46 | 944 | 0.32 | 0.34 | 51.6 |
| 4/19/2015 17:32:08 | 44.29 | 40.79 | 944 | 0.32 | 0.34 | 51.6 |
| 4/19/2015 17:32:08 | 44.62 | 41.12 | 944 | 0.32 | 0.34 | 51.6 |
| 4/19/2015 17:32:08 | 44.95 | 41.45 | 956 | 0.32 | 0.34 | 52.3 |
| 4/19/2015 17:32:09 | 45.28 | 41.78 | 951 | 0.32 | 0.34 | 52.0 |
| 4/19/2015 17:32:09 | 45.60 | 42.10 | 948 | 0.31 | 0.34 | 51.9 |
| 4/19/2015 17:32:10 | 45.93 | 42.43 | 948 | 0.31 | 0.34 | 51.9 |
| 4/19/2015 17:32:10 | 46.26 | 42.76 | 948 | 0.32 | 0.34 | 51.9 |
| 4/19/2015 17:32:10 | 46.59 | 43.09 | 950 | 0.32 | 0.34 | 51.9 |
| 4/19/2015 17:32:11 | 46.92 | 43.42 | 950 | 0.31 | 0.34 | 51.9 |
| 4/19/2015 17:32:11 | 47.24 | 43.74 | 950 | 0.31 | 0.34 | 51.9 |
| 4/19/2015 17:32:11 | 47.57 | 44.07 | 951 | 0.31 | 0.34 | 52.0 |
| 4/19/2015 17:32:12 | 47.90 | 44.40 | 929 | 0.32 | 0.34 | 50.8 |
| 4/19/2015 17:32:12 | 48.23 | 44.73 | 929 | 0.32 | 0.34 | 50.8 |
| 4/19/2015 17:32:12 | 48.56 | 45.06 | 929 | 0.32 | 0.34 | 50.8 |
| 4/19/2015 17:32:13 | 48.88 | 45.38 | 944 | 0.31 | 0.34 | 51.6 |
| 4/19/2015 17:32:13 | 49.21 | 45.71 | 950 | 0.31 | 0.37 | 51.9 |
| 4/19/2015 17:32:25 | 49.54 | 46.04 | 0 | 3.09 | 0.36 | 0.0 |
| 4/19/2015 17:32:27 | 49.87 | 46.37 | 128 | 3.53 | 0.38 | 7.0 |
| 4/19/2015 17:32:30 | 50.20 | 46.70 | 144 | 4.43 | 0.40 | 7.9 |
| 4/19/2015 17:32:32 | 50.53 | 47.03 | 144 | 5.08 | 0.41 | 7.9 |
| 4/19/2015 17:32:36 | 50.85 | 47.35 | 78 | 3.67 | 0.40 | 4.3 |
| 4/19/2015 17:32:40 | 51.18 | 47.68 | 72 | 4.32 | 0.40 | 3.9 |
| 4/19/2015 17:32:41 | 51.51 | 48.01 | 230 | 4.04 | 0.40 | 12.6 |
| 4/19/2015 17:32:42 | 51.84 | 48.34 | 260 | 3.57 | 0.40 | 14.2 |
| 4/19/2015 17:32:43 | 52.17 | 48.67 | 298 | 2.82 | 0.36 | 16.3 |
| 4/19/2015 17:32:44 | 52.49 | 48.99 | 353 | 2.52 | 0.36 | 19.3 |
| 4/19/2015 17:32:44 | 52.82 | 49.32 | 430 | 3.04 | 0.38 | 23.5 |
| 4/19/2015 17:32:45 | 53.15 | 49.65 | 537 | 2.86 | 0.36 | 29.3 |
| 4/19/2015 17:32:46 | 53.48 | 49.98 | 575 | 2.90 | 0.38 | 31.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 17:32:46 | 53.81 | 50.31 | 557 | 3.02 | 0.39 | 30.5 |
| 4/19/2015 | 17:32:47 | 54.13 | 50.63 | 491 | 2.41 | 0.37 | 26.9 |
| 4/19/2015 | 17:32:48 | 54.46 | 50.96 | 483 | 2.80 | 0.38 | 26.4 |
| 4/19/2015 | 17:32:49 | 54.79 | 51.29 | 412 | 2.71 | 0.37 | 22.5 |
| 4/19/2015 | 17:32:50 | 55.12 | 51.62 | 418 | 3.32 | 0.39 | 22.9 |
| 4/19/2015 | 17:32:51 | 55.45 | 51.95 | 418 | 2.35 | 0.37 | 22.9 |
| 4/19/2015 | 17:32:51 | 55.77 | 52.27 | 438 | 2.46 | 0.37 | 24.0 |
| 4/19/2015 | 17:32:52 | 56.10 | 52.60 | 473 | 5.38 | 0.42 | 25.9 |
| 4/19/2015 | 17:32:54 | 56.43 | 52.93 | 349 | 3.18 | 0.41 | 19.1 |
| 4/19/2015 | 17:32:56 | 56.76 | 53.26 | 119 | 3.04 | 0.38 | 6.5 |
| 4/19/2015 | 17:32:58 | 57.09 | 53.59 | 183 | 3.04 | 0.41 | 10.0 |
| 4/19/2015 | 17:33:03 | 57.41 | 53.91 | 81 | 2.81 | 0.41 | 4.4 |
| 4/19/2015 | 17:33:08 | 57.74 | 54.24 | 70 | 2.95 | 0.41 | 3.8 |
| 4/19/2015 | 17:33:13 | 58.07 | 54.57 | 75 | 2.83 | 0.41 | 4.1 |
| 4/19/2015 | 17:33:17 | 58.40 | 54.90 | 72 | 2.80 | 0.41 | 3.9 |
| 4/19/2015 | 17:33:22 | 58.71 | 55.21 | 66 | 2.81 | 0.41 | 3.6 |

## E115 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 17:30:12

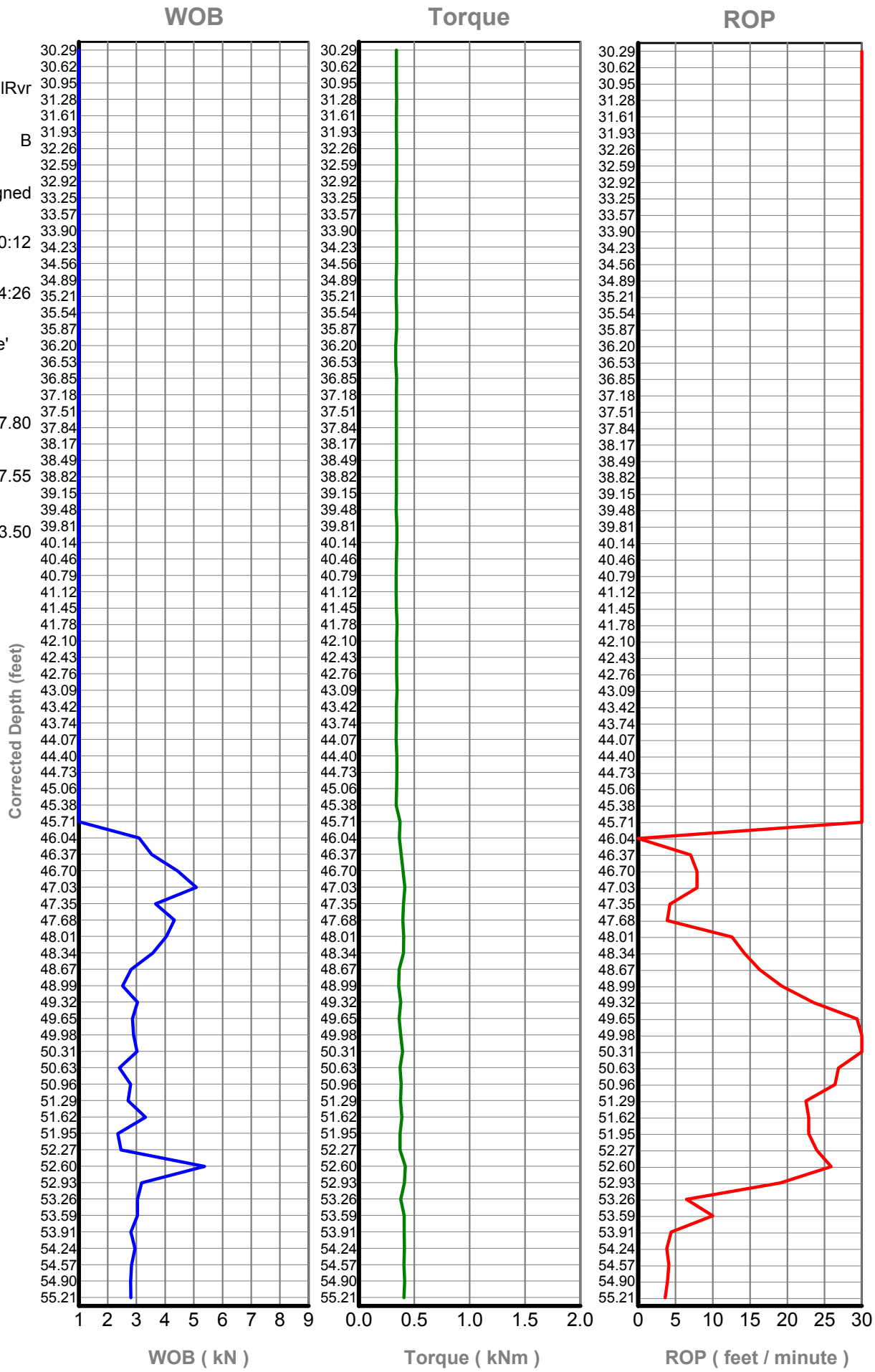
**End Date:**
4/19/2015 17:34:26

**Operator Note:**
'3.5 3.7 b Auto Complete'

**Northing:**
369,077.80

**Easting:**
253,887.55

**Tide (feet):**
3.50



## Hole: E116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 17:37:39 | 33.46 | 30.06 | 982 | 0.39 | 0.34 | 53.7 |
| 4/19/2015 17:37:40 | 33.79 | 30.39 | 983 | 0.33 | 0.34 | 53.7 |
| 4/19/2015 17:37:40 | 34.12 | 30.72 | 963 | 0.32 | 0.33 | 52.7 |
| 4/19/2015 17:37:41 | 34.45 | 31.05 | 963 | 0.32 | 0.34 | 52.7 |
| 4/19/2015 17:37:41 | 34.78 | 31.38 | 963 | 0.32 | 0.34 | 52.7 |
| 4/19/2015 17:37:41 | 35.11 | 31.71 | 974 | 0.33 | 0.34 | 53.3 |
| 4/19/2015 17:37:42 | 35.43 | 32.03 | 969 | 0.30 | 0.33 | 53.0 |
| 4/19/2015 17:37:42 | 35.76 | 32.36 | 969 | 0.30 | 0.33 | 53.0 |
| 4/19/2015 17:37:42 | 36.09 | 32.69 | 965 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 17:37:43 | 36.42 | 33.02 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 17:37:43 | 36.75 | 33.35 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 17:37:43 | 37.07 | 33.67 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 17:37:44 | 37.40 | 34.00 | 957 | 0.32 | 0.33 | 52.3 |
| 4/19/2015 17:37:44 | 37.73 | 34.33 | 959 | 0.32 | 0.33 | 52.4 |
| 4/19/2015 17:37:45 | 38.06 | 34.66 | 959 | 0.32 | 0.33 | 52.4 |
| 4/19/2015 17:37:45 | 38.39 | 34.99 | 968 | 0.32 | 0.34 | 52.9 |
| 4/19/2015 17:37:45 | 38.71 | 35.31 | 963 | 0.32 | 0.34 | 52.6 |
| 4/19/2015 17:37:46 | 39.04 | 35.64 | 963 | 0.32 | 0.34 | 52.6 |
| 4/19/2015 17:37:46 | 39.37 | 35.97 | 963 | 0.32 | 0.34 | 52.6 |
| 4/19/2015 17:37:46 | 39.70 | 36.30 | 973 | 0.32 | 0.33 | 53.2 |
| 4/19/2015 17:37:47 | 40.03 | 36.63 | 973 | 0.32 | 0.33 | 53.2 |
| 4/19/2015 17:37:47 | 40.35 | 36.95 | 1,004 | 0.32 | 0.33 | 54.9 |
| 4/19/2015 17:37:47 | 40.68 | 37.28 | 989 | 0.31 | 0.34 | 54.1 |
| 4/19/2015 17:37:48 | 41.01 | 37.61 | 971 | 0.32 | 0.34 | 53.1 |
| 4/19/2015 17:37:48 | 41.34 | 37.94 | 971 | 0.32 | 0.34 | 53.1 |
| 4/19/2015 17:37:48 | 41.67 | 38.27 | 973 | 0.32 | 0.34 | 53.2 |
| 4/19/2015 17:37:49 | 41.99 | 38.59 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 17:37:49 | 42.32 | 38.92 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 17:37:49 | 42.65 | 39.25 | 963 | 0.31 | 0.34 | 52.6 |
| 4/19/2015 17:37:50 | 42.98 | 39.58 | 952 | 0.32 | 0.34 | 52.1 |
| 4/19/2015 17:37:50 | 43.31 | 39.91 | 964 | 0.32 | 0.34 | 52.7 |
| 4/19/2015 17:37:51 | 43.64 | 40.24 | 964 | 0.32 | 0.34 | 52.7 |
| 4/19/2015 17:37:51 | 43.96 | 40.56 | 978 | 0.31 | 0.33 | 53.5 |
| 4/19/2015 17:37:52 | 44.29 | 40.89 | 973 | 0.32 | 0.34 | 53.2 |
| 4/19/2015 17:37:52 | 44.62 | 41.22 | 973 | 0.32 | 0.34 | 53.2 |
| 4/19/2015 17:37:52 | 44.95 | 41.55 | 981 | 0.31 | 0.33 | 53.7 |
| 4/19/2015 17:37:53 | 45.28 | 41.88 | 995 | 0.32 | 0.34 | 54.4 |
| 4/19/2015 17:37:53 | 45.60 | 42.20 | 995 | 0.32 | 0.34 | 54.4 |
| 4/19/2015 17:37:53 | 45.93 | 42.53 | 989 | 0.32 | 0.34 | 54.1 |
| 4/19/2015 17:37:54 | 46.26 | 42.86 | 983 | 0.32 | 0.34 | 53.7 |
| 4/19/2015 17:37:54 | 46.59 | 43.19 | 983 | 0.32 | 0.33 | 53.7 |
| 4/19/2015 17:37:55 | 46.92 | 43.52 | 983 | 0.32 | 0.33 | 53.7 |
| 4/19/2015 17:37:55 | 47.24 | 43.84 | 971 | 0.32 | 0.34 | 53.1 |
| 4/19/2015 17:37:55 | 47.57 | 44.17 | 980 | 0.32 | 0.34 | 53.6 |
| 4/19/2015 17:37:56 | 47.90 | 44.50 | 980 | 0.32 | 0.34 | 53.6 |
| 4/19/2015 17:37:56 | 48.23 | 44.83 | 977 | 0.32 | 0.35 | 53.4 |
| 4/19/2015 17:38:05 | 48.56 | 45.16 | 62 | 4.24 | 0.43 | 3.4 |
| 4/19/2015 17:38:06 | 48.88 | 45.48 | 113 | 2.95 | 0.38 | 6.2 |
| 4/19/2015 17:38:23 | 49.21 | 45.81 | 29 | 5.02 | 0.40 | 1.6 |
| 4/19/2015 17:38:26 | 49.54 | 46.14 | 80 | 3.75 | 0.41 | 4.4 |
| 4/19/2015 17:38:27 | 49.87 | 46.47 | 182 | 3.74 | 0.39 | 9.9 |
| 4/19/2015 17:38:33 | 50.20 | 46.80 | 35 | 5.29 | 0.42 | 1.9 |
| 4/19/2015 17:38:35 | 50.53 | 47.13 | 118 | 2.94 | 0.36 | 6.4 |
| 4/19/2015 17:38:35 | 50.85 | 47.45 | 212 | 2.59 | 0.37 | 11.6 |
| 4/19/2015 17:38:36 | 51.18 | 47.78 | 311 | 2.40 | 0.37 | 17.0 |
| 4/19/2015 17:38:37 | 51.51 | 48.11 | 483 | 2.29 | 0.40 | 26.4 |
| 4/19/2015 17:38:37 | 51.84 | 48.44 | 517 | 2.23 | 0.37 | 28.3 |
| 4/19/2015 17:38:38 | 52.17 | 48.77 | 494 | 2.36 | 0.39 | 27.0 |
| 4/19/2015 17:38:41 | 52.49 | 49.09 | 80 | 4.66 | 0.43 | 4.4 |
| 4/19/2015 17:38:43 | 52.82 | 49.42 | 118 | 4.53 | 0.39 | 6.5 |
| 4/19/2015 17:38:45 | 53.15 | 49.75 | 199 | 3.77 | 0.38 | 10.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 17:38:46 | 53.48 | 50.08 | 271 | 3.95 | 0.38 | 14.8 |
| 4/19/2015 | 17:38:47 | 53.81 | 50.41 | 300 | 3.33 | 0.38 | 16.4 |
| 4/19/2015 | 17:38:48 | 54.13 | 50.73 | 327 | 2.36 | 0.36 | 17.9 |
| 4/19/2015 | 17:38:48 | 54.46 | 51.06 | 368 | 2.33 | 0.37 | 20.1 |
| 4/19/2015 | 17:38:49 | 54.79 | 51.39 | 423 | 2.47 | 0.38 | 23.1 |
| 4/19/2015 | 17:38:50 | 55.12 | 51.72 | 455 | 2.46 | 0.37 | 24.9 |
| 4/19/2015 | 17:38:50 | 55.45 | 52.05 | 509 | 2.29 | 0.37 | 27.8 |
| 4/19/2015 | 17:38:52 | 55.77 | 52.37 | 406 | 3.34 | 0.39 | 22.2 |
| 4/19/2015 | 17:38:53 | 56.10 | 52.70 | 348 | 2.42 | 0.40 | 19.0 |
| 4/19/2015 | 17:38:56 | 56.43 | 53.03 | 131 | 3.62 | 0.40 | 7.2 |
| 4/19/2015 | 17:38:57 | 56.76 | 53.36 | 161 | 2.97 | 0.38 | 8.8 |
| 4/19/2015 | 17:38:58 | 57.09 | 53.69 | 240 | 2.95 | 0.41 | 13.1 |
| 4/19/2015 | 17:39:00 | 57.41 | 54.01 | 260 | 3.19 | 0.40 | 14.2 |
| 4/19/2015 | 17:39:01 | 57.74 | 54.34 | 236 | 3.64 | 0.41 | 12.9 |
| 4/19/2015 | 17:39:06 | 58.07 | 54.67 | 78 | 4.09 | 0.41 | 4.3 |

## E116 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 17:35:31

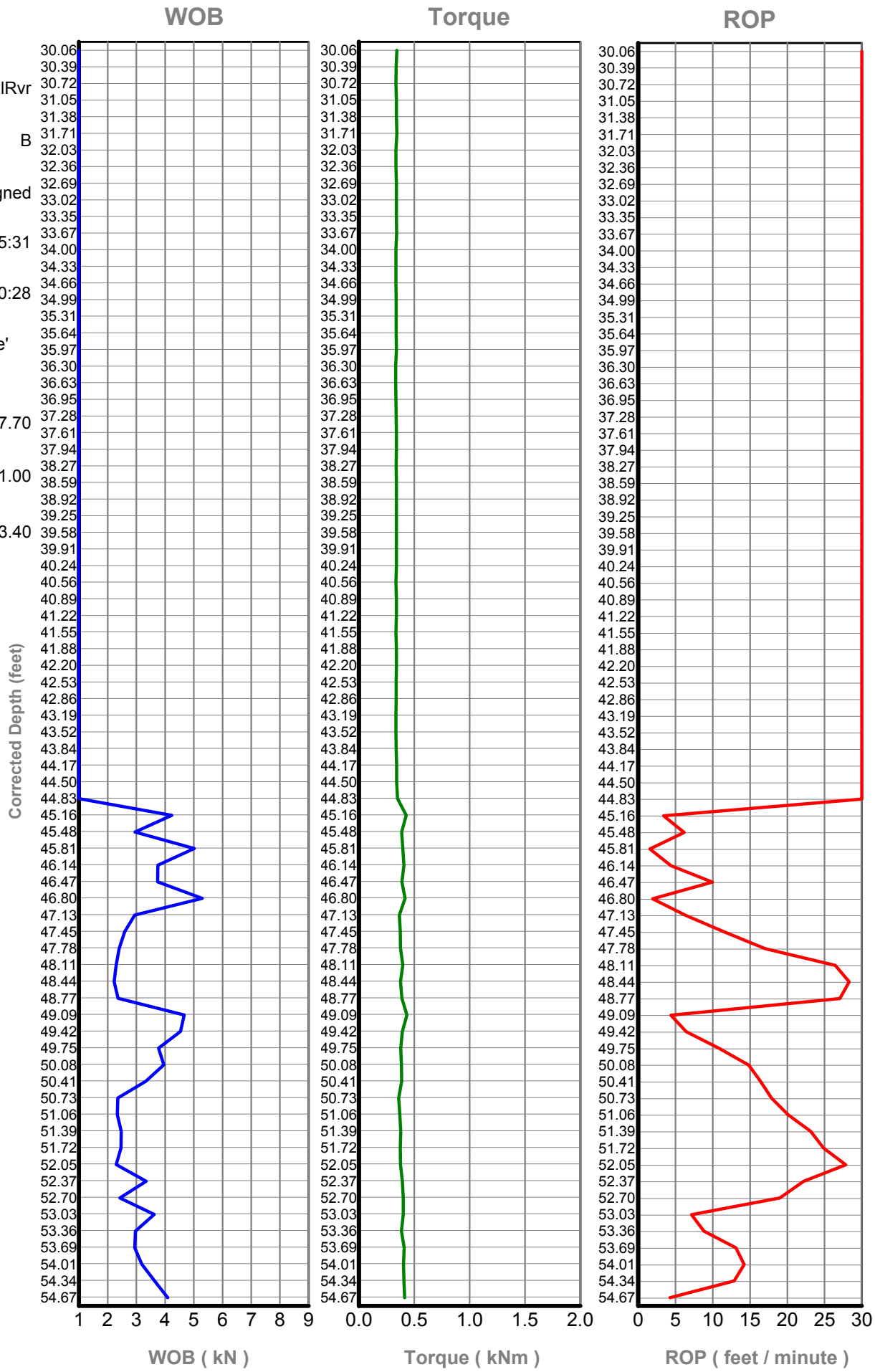
**End Date:**
4/19/2015 17:40:28

**Operator Note:**
'3.4 3.1 b Auto Complete'

**Northing:**
369,117.70

**Easting:**
253,931.00

**Tide (feet):**
3.40



## Hole: E117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 17:42:50 | 33.46 | 30.26 | 1,012 | 0.32 | 0.33 | 55.4 |
| 4/19/2015 17:42:50 | 33.79 | 30.59 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/19/2015 17:42:51 | 34.12 | 30.92 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/19/2015 17:42:51 | 34.45 | 31.25 | 1,021 | 0.33 | 0.33 | 55.8 |
| 4/19/2015 17:42:51 | 34.78 | 31.58 | 1,033 | 0.32 | 0.33 | 56.5 |
| 4/19/2015 17:42:52 | 35.11 | 31.91 | 1,033 | 0.32 | 0.33 | 56.5 |
| 4/19/2015 17:42:52 | 35.43 | 32.23 | 1,015 | 0.32 | 0.33 | 55.5 |
| 4/19/2015 17:42:52 | 35.76 | 32.56 | 1,018 | 0.33 | 0.33 | 55.6 |
| 4/19/2015 17:42:53 | 36.09 | 32.89 | 1,018 | 0.33 | 0.33 | 55.6 |
| 4/19/2015 17:42:53 | 36.42 | 33.22 | 1,015 | 0.32 | 0.34 | 55.5 |
| 4/19/2015 17:42:54 | 36.75 | 33.55 | 1,015 | 0.32 | 0.33 | 55.5 |
| 4/19/2015 17:42:54 | 37.07 | 33.87 | 1,009 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 17:42:55 | 37.40 | 34.20 | 1,009 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 17:42:55 | 37.73 | 34.53 | 1,009 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 17:42:55 | 38.06 | 34.86 | 1,009 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 17:42:56 | 38.39 | 35.19 | 1,009 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 17:42:56 | 38.71 | 35.51 | 1,015 | 0.32 | 0.33 | 55.5 |
| 4/19/2015 17:42:56 | 39.04 | 35.84 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:42:57 | 39.37 | 36.17 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:42:57 | 39.70 | 36.50 | 1,015 | 0.32 | 0.33 | 55.5 |
| 4/19/2015 17:42:57 | 40.03 | 36.83 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 17:42:58 | 40.35 | 37.15 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 17:42:58 | 40.68 | 37.48 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 17:42:58 | 41.01 | 37.81 | 1,009 | 0.32 | 0.34 | 55.2 |
| 4/19/2015 17:42:59 | 41.34 | 38.14 | 1,009 | 0.32 | 0.34 | 55.2 |
| 4/19/2015 17:42:59 | 41.67 | 38.47 | 1,006 | 0.33 | 0.33 | 55.0 |
| 4/19/2015 17:42:59 | 41.99 | 38.79 | 997 | 0.32 | 0.33 | 54.5 |
| 4/19/2015 17:43:00 | 42.32 | 39.12 | 997 | 0.32 | 0.33 | 54.5 |
| 4/19/2015 17:43:00 | 42.65 | 39.45 | 1,003 | 0.32 | 0.33 | 54.9 |
| 4/19/2015 17:43:00 | 42.98 | 39.78 | 1,000 | 0.36 | 0.33 | 54.7 |
| 4/19/2015 17:43:01 | 43.31 | 40.11 | 1,000 | 0.36 | 0.33 | 54.7 |
| 4/19/2015 17:43:01 | 43.64 | 40.44 | 1,003 | 0.33 | 0.33 | 54.9 |
| 4/19/2015 17:43:01 | 43.96 | 40.76 | 1,006 | 0.33 | 0.33 | 55.0 |
| 4/19/2015 17:43:02 | 44.29 | 41.09 | 1,006 | 0.33 | 0.33 | 55.0 |
| 4/19/2015 17:43:02 | 44.62 | 41.42 | 1,012 | 0.32 | 0.34 | 55.3 |
| 4/19/2015 17:43:02 | 44.95 | 41.75 | 1,006 | 0.33 | 0.34 | 55.0 |
| 4/19/2015 17:43:03 | 45.28 | 42.08 | 1,003 | 0.33 | 0.33 | 54.8 |
| 4/19/2015 17:43:04 | 45.60 | 42.40 | 1,003 | 0.33 | 0.33 | 54.8 |
| 4/19/2015 17:43:04 | 45.93 | 42.73 | 994 | 0.32 | 0.34 | 54.4 |
| 4/19/2015 17:43:04 | 46.26 | 43.06 | 989 | 0.32 | 0.33 | 54.1 |
| 4/19/2015 17:43:05 | 46.59 | 43.39 | 989 | 0.32 | 0.33 | 54.1 |
| 4/19/2015 17:43:05 | 46.92 | 43.72 | 974 | 0.32 | 0.33 | 53.3 |
| 4/19/2015 17:43:05 | 47.24 | 44.04 | 963 | 0.32 | 0.33 | 52.7 |
| 4/19/2015 17:43:06 | 47.57 | 44.37 | 963 | 0.32 | 0.33 | 52.7 |
| 4/19/2015 17:43:06 | 47.90 | 44.70 | 975 | 0.33 | 0.34 | 53.3 |
| 4/19/2015 17:43:06 | 48.23 | 45.03 | 975 | 0.32 | 0.33 | 53.3 |
| 4/19/2015 17:43:07 | 48.56 | 45.36 | 975 | 0.32 | 0.33 | 53.3 |
| 4/19/2015 17:43:07 | 48.88 | 45.68 | 995 | 0.32 | 0.33 | 54.4 |
| 4/19/2015 17:43:07 | 49.21 | 46.01 | 977 | 0.31 | 0.39 | 53.4 |
| 4/19/2015 17:43:15 | 49.54 | 46.34 | 70 | 3.73 | 0.40 | 3.9 |
| 4/19/2015 17:43:17 | 49.87 | 46.67 | 160 | 3.45 | 0.39 | 8.7 |
| 4/19/2015 17:43:18 | 50.20 | 47.00 | 216 | 2.36 | 0.38 | 11.8 |
| 4/19/2015 17:43:18 | 50.53 | 47.33 | 271 | 2.31 | 0.38 | 14.8 |
| 4/19/2015 17:43:19 | 50.85 | 47.65 | 324 | 2.23 | 0.38 | 17.7 |
| 4/19/2015 17:43:20 | 51.18 | 47.98 | 406 | 2.27 | 0.37 | 22.2 |
| 4/19/2015 17:43:20 | 51.51 | 48.31 | 447 | 2.50 | 0.39 | 24.4 |
| 4/19/2015 17:43:22 | 51.84 | 48.64 | 380 | 2.82 | 0.41 | 20.8 |
| 4/19/2015 17:43:25 | 52.17 | 48.97 | 131 | 2.68 | 0.40 | 7.2 |
| 4/19/2015 17:43:27 | 52.49 | 49.29 | 184 | 3.22 | 0.42 | 10.1 |
| 4/19/2015 17:43:40 | 52.82 | 49.62 | 10 | 4.62 | 0.40 | 0.6 |
| 4/19/2015 17:43:43 | 53.15 | 49.95 | 91 | 4.00 | 0.38 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 17:43:45 | 53.48 | 50.28 | 107 | 3.42 | 0.38 | 5.9 |
| 4/19/2015 | 17:43:46 | 53.81 | 50.61 | 208 | 4.10 | 0.42 | 11.4 |
| 4/19/2015 | 17:44:03 | 54.13 | 50.93 | 73 | 3.48 | 0.37 | 4.0 |
| 4/19/2015 | 17:44:03 | 54.46 | 51.26 | 187 | 2.54 | 0.37 | 10.3 |
| 4/19/2015 | 17:44:04 | 54.79 | 51.59 | 275 | 2.06 | 0.34 | 15.0 |
| 4/19/2015 | 17:44:04 | 55.12 | 51.92 | 418 | 2.15 | 0.39 | 22.8 |
| 4/19/2015 | 17:44:05 | 55.45 | 52.25 | 552 | 2.50 | 0.40 | 30.2 |
| 4/19/2015 | 17:44:08 | 55.77 | 52.57 | 223 | 5.36 | 0.38 | 12.2 |
| 4/19/2015 | 17:44:10 | 56.10 | 52.90 | 139 | 3.27 | 0.38 | 7.6 |
| 4/19/2015 | 17:44:11 | 56.43 | 53.23 | 182 | 3.92 | 0.38 | 9.9 |
| 4/19/2015 | 17:44:12 | 56.76 | 53.56 | 319 | 3.21 | 0.38 | 17.5 |
| 4/19/2015 | 17:44:13 | 57.09 | 53.89 | 394 | 3.18 | 0.42 | 21.5 |
| 4/19/2015 | 17:44:18 | 57.41 | 54.21 | 96 | 3.30 | 0.41 | 5.2 |
| 4/19/2015 | 17:44:21 | 57.74 | 54.54 | 95 | 3.12 | 0.41 | 5.2 |
| 4/19/2015 | 17:44:25 | 58.07 | 54.87 | 103 | 3.26 | 0.41 | 5.6 |
| 4/19/2015 | 17:44:25 | 58.14 | 54.94 | 97 | 3.11 | 0.41 | 5.3 |

## E117 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 17:41:24

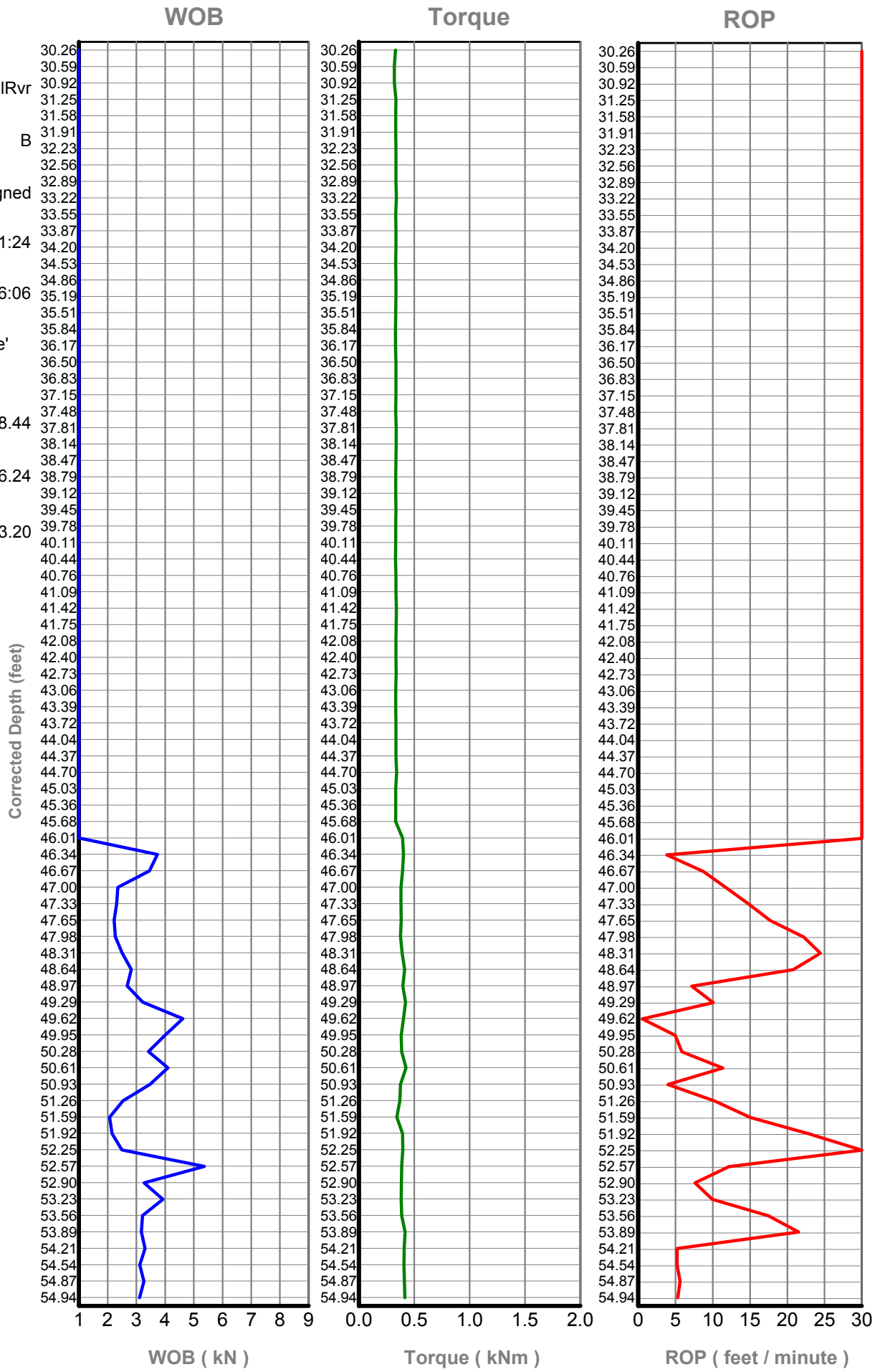
**End Date:**
4/19/2015 17:46:06

**Operator Note:**
'3.2 3.1 b Auto Complete'

**Northing:**
369,168.44

**Easting:**
253,986.24

**Tide (feet):**
3.20



## Hole: E118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:21:23 | 36.42 | 30.12 | 398 | 0.31 | 0.31 | 21.8 |
| 4/22/2015 2:21:23 | 36.75 | 30.45 | 607 | 0.30 | 0.32 | 33.2 |
| 4/22/2015 2:21:24 | 37.07 | 30.77 | 817 | 0.30 | 0.32 | 44.7 |
| 4/22/2015 2:21:24 | 37.40 | 31.10 | 817 | 0.30 | 0.32 | 44.7 |
| 4/22/2015 2:21:24 | 37.73 | 31.43 | 1,002 | 0.31 | 0.31 | 54.8 |
| 4/22/2015 2:21:25 | 38.06 | 31.76 | 1,011 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:21:25 | 38.39 | 32.09 | 1,011 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:21:25 | 38.71 | 32.41 | 1,033 | 0.30 | 0.31 | 56.5 |
| 4/22/2015 2:21:26 | 39.04 | 32.74 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/22/2015 2:21:26 | 39.37 | 33.07 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/22/2015 2:21:26 | 39.70 | 33.40 | 1,026 | 0.12 | 0.31 | 56.1 |
| 4/22/2015 2:21:27 | 40.03 | 33.73 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/22/2015 2:21:27 | 40.35 | 34.05 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/22/2015 2:21:27 | 40.68 | 34.38 | 1,020 | 0.30 | 0.32 | 55.8 |
| 4/22/2015 2:21:28 | 41.01 | 34.71 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/22/2015 2:21:29 | 41.34 | 35.04 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/22/2015 2:21:29 | 41.67 | 35.37 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/22/2015 2:21:29 | 41.99 | 35.69 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/22/2015 2:21:30 | 42.32 | 36.02 | 1,020 | 0.30 | 0.32 | 55.8 |
| 4/22/2015 2:21:30 | 42.65 | 36.35 | 1,020 | 0.30 | 0.32 | 55.8 |
| 4/22/2015 2:21:30 | 42.98 | 36.68 | 1,027 | 0.31 | 0.31 | 56.1 |
| 4/22/2015 2:21:31 | 43.31 | 37.01 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 2:21:31 | 43.64 | 37.34 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 2:21:31 | 43.96 | 37.66 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/22/2015 2:21:32 | 44.29 | 37.99 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/22/2015 2:21:32 | 44.62 | 38.32 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/22/2015 2:21:32 | 44.95 | 38.65 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/22/2015 2:21:33 | 45.28 | 38.98 | 1,026 | 0.31 | 0.30 | 56.1 |
| 4/22/2015 2:21:33 | 45.60 | 39.30 | 1,026 | 0.31 | 0.30 | 56.1 |
| 4/22/2015 2:21:33 | 45.93 | 39.63 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/22/2015 2:21:34 | 46.26 | 39.96 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:34 | 46.59 | 40.29 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:34 | 46.92 | 40.62 | 1,023 | 0.29 | 0.31 | 56.0 |
| 4/22/2015 2:21:35 | 47.24 | 40.94 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:35 | 47.57 | 41.27 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:35 | 47.90 | 41.60 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/22/2015 2:21:36 | 48.23 | 41.93 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 2:21:36 | 48.56 | 42.26 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 2:21:36 | 48.88 | 42.58 | 1,027 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:21:37 | 49.21 | 42.91 | 1,027 | 0.33 | 0.31 | 56.2 |
| 4/22/2015 2:21:37 | 49.54 | 43.24 | 1,027 | 0.33 | 0.31 | 56.2 |
| 4/22/2015 2:21:37 | 49.87 | 43.57 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/22/2015 2:21:38 | 50.20 | 43.90 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 2:21:38 | 50.53 | 44.23 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 2:21:39 | 50.85 | 44.55 | 1,027 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:21:39 | 51.18 | 44.88 | 1,018 | 0.35 | 0.31 | 55.6 |
| 4/22/2015 2:21:40 | 51.51 | 45.21 | 1,018 | 0.35 | 0.31 | 55.6 |
| 4/22/2015 2:21:40 | 51.84 | 45.54 | 1,018 | 0.31 | 0.31 | 55.6 |
| 4/22/2015 2:21:40 | 52.17 | 45.87 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:41 | 52.49 | 46.19 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 2:21:41 | 52.82 | 46.52 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 2:21:41 | 53.15 | 46.85 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 2:21:42 | 53.48 | 47.18 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 2:21:42 | 53.81 | 47.51 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 2:21:42 | 54.13 | 47.83 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 2:21:43 | 54.46 | 48.16 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 2:21:43 | 54.79 | 48.49 | 1,006 | 0.29 | 0.35 | 55.0 |
| 4/22/2015 2:23:53 | 55.12 | 48.82 | 76 | 4.71 | 0.40 | 4.2 |
| 4/22/2015 2:23:57 | 55.45 | 49.15 | 105 | 4.37 | 0.40 | 5.7 |
| 4/22/2015 2:24:01 | 55.77 | 49.47 | 93 | 4.22 | 0.42 | 5.1 |
| 4/22/2015 2:24:11 | 56.10 | 49.80 | 2 | 4.20 | 0.37 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:24:12 | 56.43 | 50.13 | 52 | 3.85 | 0.38 | 2.9 |
| 4/22/2015 | 2:24:13 | 56.76 | 50.46 | 204 | 3.98 | 0.37 | 11.1 |
| 4/22/2015 | 2:24:14 | 57.09 | 50.79 | 332 | 3.98 | 0.38 | 18.1 |
| 4/22/2015 | 2:24:25 | 57.41 | 51.11 | 40 | 3.48 | 0.38 | 2.2 |
| 4/22/2015 | 2:24:26 | 57.74 | 51.44 | 162 | 2.98 | 0.36 | 8.8 |
| 4/22/2015 | 2:24:27 | 58.07 | 51.77 | 259 | 2.61 | 0.36 | 14.1 |
| 4/22/2015 | 2:24:27 | 58.40 | 52.10 | 361 | 2.33 | 0.36 | 19.8 |
| 4/22/2015 | 2:24:28 | 58.73 | 52.43 | 500 | 2.25 | 0.36 | 27.4 |
| 4/22/2015 | 2:24:29 | 59.06 | 52.76 | 541 | 2.10 | 0.36 | 29.6 |
| 4/22/2015 | 2:24:29 | 59.38 | 53.08 | 547 | 2.21 | 0.36 | 29.9 |
| 4/22/2015 | 2:24:30 | 59.71 | 53.41 | 497 | 2.23 | 0.37 | 27.2 |
| 4/22/2015 | 2:24:31 | 60.04 | 53.74 | 436 | 2.33 | 0.37 | 23.9 |
| 4/22/2015 | 2:24:32 | 60.37 | 54.07 | 411 | 2.20 | 0.37 | 22.5 |
| 4/22/2015 | 2:24:33 | 60.70 | 54.40 | 396 | 2.30 | 0.37 | 21.7 |
| 4/22/2015 | 2:24:34 | 61.02 | 54.72 | 327 | 2.33 | 0.38 | 17.9 |
| 4/22/2015 | 2:24:34 | 61.09 | 54.79 | 327 | 2.33 | 0.38 | 17.9 |

## E118 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:17:05

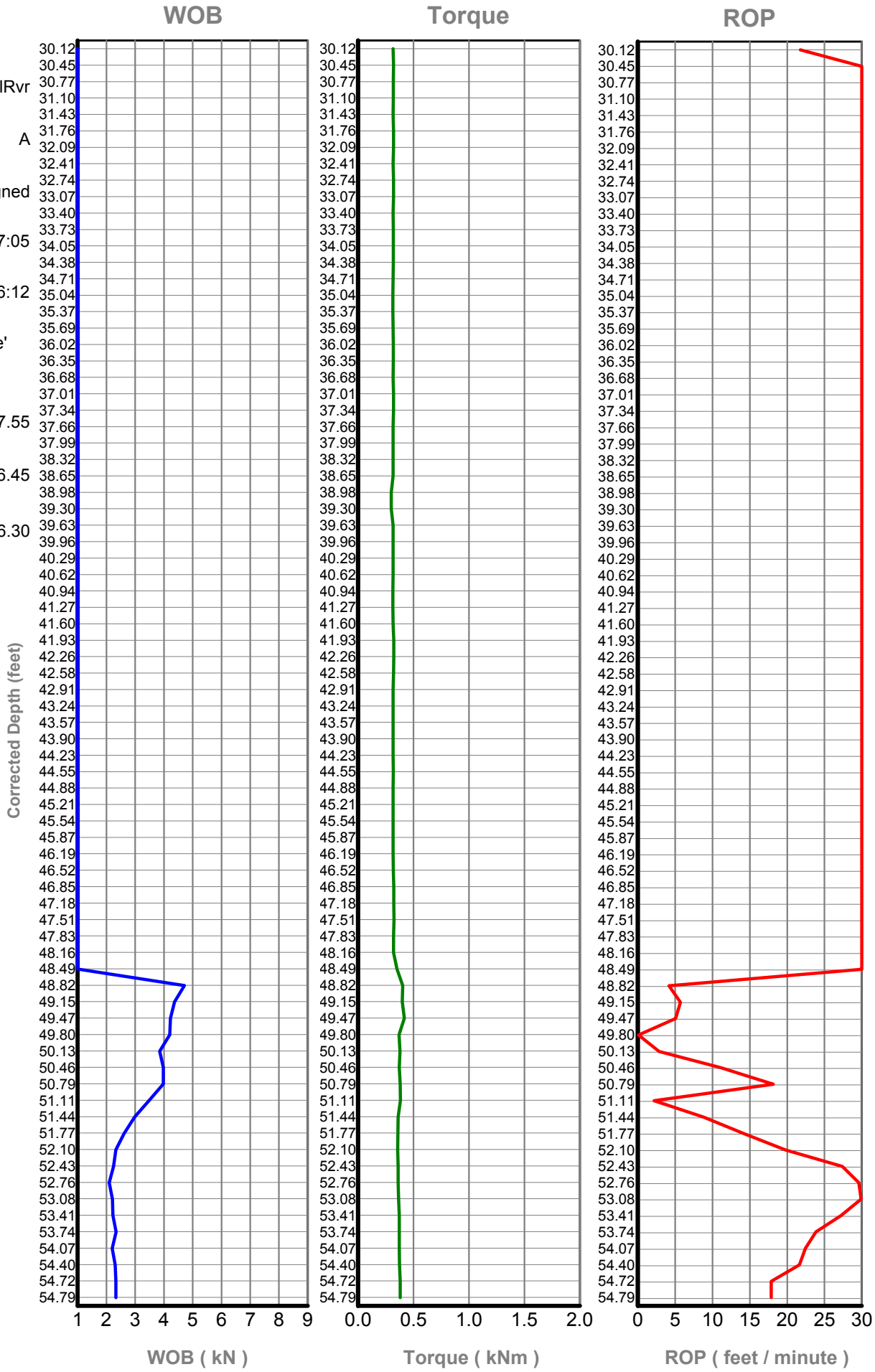
**End Date:**
4/22/2015 2:26:12

**Operator Note:**
'6.3 6.1 b Auto Complete'

**Northing:**
368,067.55

**Easting:**
252,756.45

**Tide (feet):**
6.30



## Hole: E119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:15:26 | 36.42 | 30.22 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 2:15:27 | 36.75 | 30.55 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:27 | 37.07 | 30.87 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:27 | 37.40 | 31.20 | 1,381 | 3.24 | 0.16 | 75.5 |
| 4/22/2015 2:15:27 | 37.73 | 31.53 | 1,381 | 3.24 | 0.16 | 75.5 |
| 4/22/2015 2:15:28 | 38.06 | 31.86 | 1,381 | 3.23 | 0.16 | 75.5 |
| 4/22/2015 2:15:28 | 38.39 | 32.19 | 1,381 | 3.23 | 0.16 | 75.5 |
| 4/22/2015 2:15:28 | 38.71 | 32.51 | 1,380 | 3.22 | 0.16 | 75.4 |
| 4/22/2015 2:15:28 | 39.04 | 32.84 | 1,380 | 3.22 | 0.16 | 75.4 |
| 4/22/2015 2:15:29 | 39.37 | 33.17 | 1,382 | 3.24 | 0.15 | 75.6 |
| 4/22/2015 2:15:29 | 39.70 | 33.50 | 1,382 | 3.24 | 0.15 | 75.6 |
| 4/22/2015 2:15:29 | 40.03 | 33.83 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:29 | 40.35 | 34.15 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:30 | 40.68 | 34.48 | 1,394 | 3.24 | 0.16 | 76.2 |
| 4/22/2015 2:15:30 | 41.01 | 34.81 | 1,394 | 3.24 | 0.16 | 76.2 |
| 4/22/2015 2:15:30 | 41.34 | 35.14 | 1,406 | 3.24 | 0.16 | 76.9 |
| 4/22/2015 2:15:30 | 41.67 | 35.47 | 1,406 | 3.24 | 0.16 | 76.9 |
| 4/22/2015 2:15:31 | 41.99 | 35.79 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:31 | 42.32 | 36.12 | 1,393 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:15:31 | 42.65 | 36.45 | 1,393 | 3.23 | 0.16 | 76.2 |
| 4/22/2015 2:15:32 | 42.98 | 36.78 | 1,393 | 3.23 | 0.16 | 76.2 |
| 4/22/2015 2:15:32 | 43.31 | 37.11 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 2:15:32 | 43.64 | 37.44 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 2:15:32 | 43.96 | 37.76 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 2:15:33 | 44.29 | 38.09 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 2:15:33 | 44.62 | 38.42 | 1,390 | 3.24 | 0.16 | 76.0 |
| 4/22/2015 2:15:33 | 44.95 | 38.75 | 1,390 | 3.24 | 0.16 | 76.0 |
| 4/22/2015 2:15:33 | 45.28 | 39.08 | 1,390 | 3.21 | 0.16 | 76.0 |
| 4/22/2015 2:15:34 | 45.60 | 39.40 | 1,390 | 3.21 | 0.16 | 76.0 |
| 4/22/2015 2:15:34 | 45.93 | 39.73 | 1,396 | 3.22 | 0.16 | 76.3 |
| 4/22/2015 2:15:34 | 46.26 | 40.06 | 1,396 | 3.22 | 0.16 | 76.3 |
| 4/22/2015 2:15:34 | 46.59 | 40.39 | 1,388 | 3.25 | 0.16 | 75.9 |
| 4/22/2015 2:15:35 | 46.92 | 40.72 | 1,388 | 3.25 | 0.16 | 75.9 |
| 4/22/2015 2:15:35 | 47.24 | 41.04 | 1,379 | 3.24 | 0.16 | 75.4 |
| 4/22/2015 2:15:35 | 47.57 | 41.37 | 1,379 | 3.24 | 0.16 | 75.4 |
| 4/22/2015 2:15:35 | 47.90 | 41.70 | 1,390 | 3.21 | 0.15 | 76.0 |
| 4/22/2015 2:15:36 | 48.23 | 42.03 | 1,390 | 3.21 | 0.15 | 76.0 |
| 4/22/2015 2:15:36 | 48.56 | 42.36 | 1,388 | 3.24 | 0.16 | 75.9 |
| 4/22/2015 2:15:36 | 48.88 | 42.68 | 1,388 | 3.24 | 0.16 | 75.9 |
| 4/22/2015 2:15:37 | 49.21 | 43.01 | 1,388 | 3.23 | 0.16 | 75.9 |
| 4/22/2015 2:15:37 | 49.54 | 43.34 | 1,388 | 3.23 | 0.16 | 75.9 |
| 4/22/2015 2:15:37 | 49.87 | 43.67 | 1,388 | 3.24 | 0.16 | 75.9 |
| 4/22/2015 2:15:37 | 50.20 | 44.00 | 1,388 | 3.24 | 0.16 | 75.9 |
| 4/22/2015 2:15:38 | 50.53 | 44.33 | 1,388 | 3.22 | 0.16 | 75.9 |
| 4/22/2015 2:15:38 | 50.85 | 44.65 | 1,388 | 3.22 | 0.16 | 75.9 |
| 4/22/2015 2:15:38 | 51.18 | 44.98 | 1,385 | 3.24 | 0.16 | 75.7 |
| 4/22/2015 2:15:39 | 51.51 | 45.31 | 1,385 | 3.24 | 0.16 | 75.7 |
| 4/22/2015 2:15:39 | 51.84 | 45.64 | 1,382 | 1.58 | 0.16 | 75.6 |
| 4/22/2015 2:16:02 | 52.17 | 45.97 | 75 | 1.82 | 1.12 | 4.1 |
| 4/22/2015 2:16:06 | 52.49 | 46.29 | 0 | 2.16 | 1.24 | 0.0 |
| 4/22/2015 2:16:09 | 52.82 | 46.62 | 127 | 2.07 | 1.23 | 6.9 |
| 4/22/2015 2:16:13 | 53.15 | 46.95 | 85 | 2.14 | 1.28 | 4.6 |
| 4/22/2015 2:16:18 | 53.48 | 47.28 | 60 | 2.10 | 1.36 | 3.3 |
| 4/22/2015 2:16:24 | 53.81 | 47.61 | 69 | 2.10 | 1.32 | 3.7 |
| 4/22/2015 2:16:28 | 54.13 | 47.93 | 76 | 2.14 | 1.24 | 4.2 |
| 4/22/2015 2:16:34 | 54.45 | 48.25 | 61 | 2.11 | 1.29 | 3.3 |

## E119 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:14:22

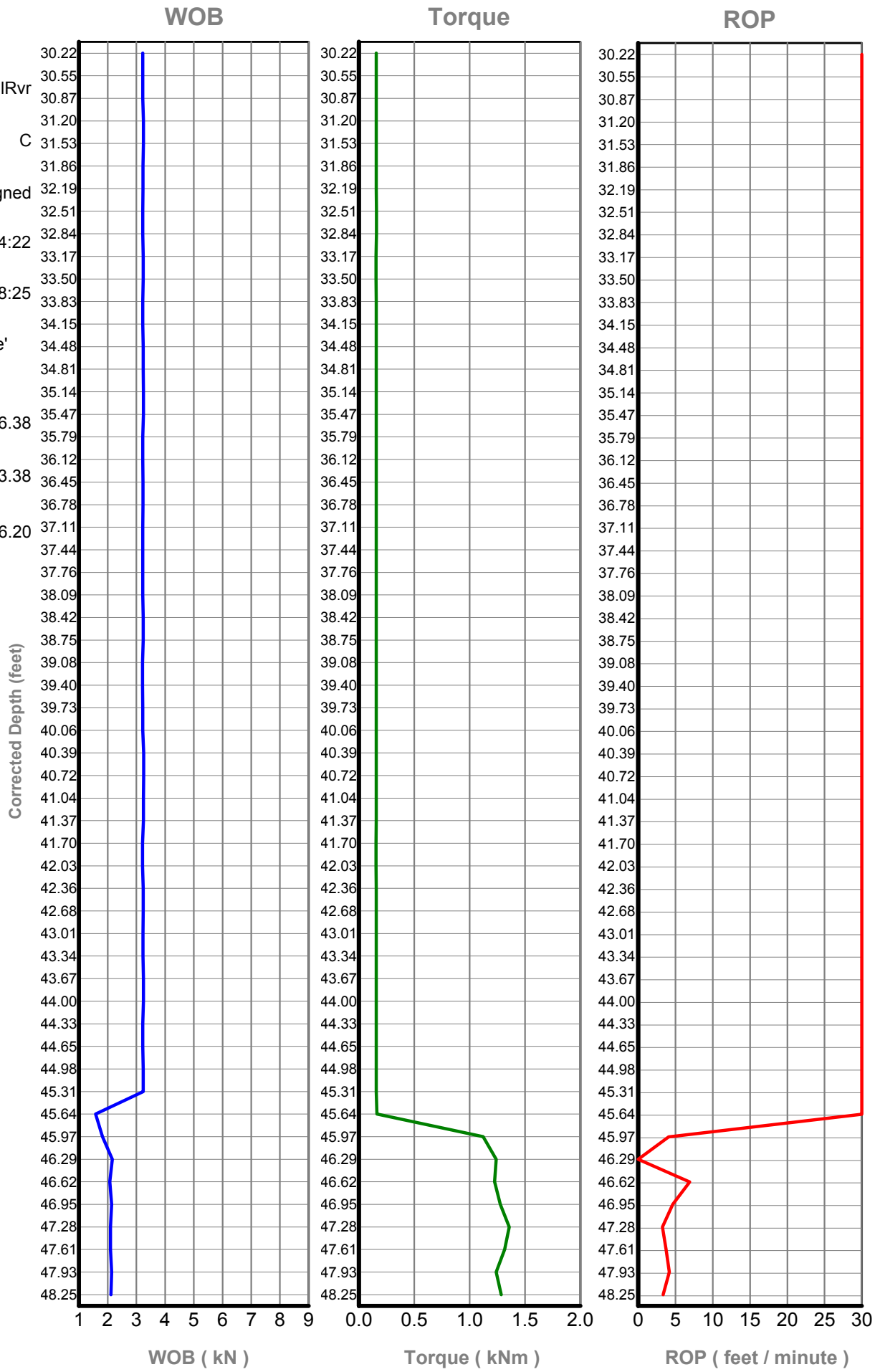
**End Date:**
4/22/2015 2:18:25

**Operator Note:**
'6.2 6.0 c Auto Complete'

**Northing:**
368,116.38

**Easting:**
252,813.38

**Tide (feet):**
6.20



## Hole: E12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 6:34:45 | 34.78 | 30.28 | 287 | 1.38 | 0.13 | 15.7 |
| 4/21/2015 6:34:47 | 35.11 | 30.61 | 285 | 1.38 | 0.13 | 15.6 |
| 4/21/2015 6:34:48 | 35.43 | 30.93 | 285 | 1.34 | 0.13 | 15.6 |
| 4/21/2015 6:34:50 | 35.76 | 31.26 | 283 | 1.41 | 0.13 | 15.5 |
| 4/21/2015 6:34:51 | 36.09 | 31.59 | 283 | 1.41 | 0.13 | 15.5 |
| 4/21/2015 6:34:52 | 36.42 | 31.92 | 283 | 1.38 | 0.13 | 15.5 |
| 4/21/2015 6:34:53 | 36.75 | 32.25 | 283 | 1.46 | 0.13 | 15.5 |
| 4/21/2015 6:34:54 | 37.07 | 32.57 | 278 | 1.36 | 0.13 | 15.2 |
| 4/21/2015 6:34:56 | 37.40 | 32.90 | 281 | 1.33 | 0.13 | 15.4 |
| 4/21/2015 6:34:57 | 37.73 | 33.23 | 280 | 1.34 | 0.13 | 15.3 |
| 4/21/2015 6:34:59 | 38.06 | 33.56 | 286 | 1.36 | 0.13 | 15.7 |
| 4/21/2015 6:35:00 | 38.39 | 33.89 | 280 | 1.34 | 0.13 | 15.3 |
| 4/21/2015 6:35:01 | 38.71 | 34.21 | 285 | 1.41 | 0.13 | 15.6 |
| 4/21/2015 6:35:02 | 39.04 | 34.54 | 286 | 1.34 | 0.13 | 15.6 |
| 4/21/2015 6:35:03 | 39.37 | 34.87 | 276 | 1.41 | 0.13 | 15.1 |
| 4/21/2015 6:35:05 | 39.70 | 35.20 | 279 | 1.36 | 0.13 | 15.3 |
| 4/21/2015 6:35:06 | 40.03 | 35.53 | 278 | 1.43 | 0.13 | 15.2 |
| 4/21/2015 6:35:07 | 40.35 | 35.85 | 283 | 1.47 | 0.13 | 15.5 |
| 4/21/2015 6:35:09 | 40.68 | 36.18 | 286 | 1.41 | 0.13 | 15.7 |
| 4/21/2015 6:35:10 | 41.01 | 36.51 | 283 | 1.42 | 0.13 | 15.5 |
| 4/21/2015 6:35:11 | 41.34 | 36.84 | 283 | 1.34 | 0.13 | 15.5 |
| 4/21/2015 6:35:12 | 41.67 | 37.17 | 283 | 1.32 | 0.13 | 15.5 |
| 4/21/2015 6:35:14 | 41.99 | 37.49 | 283 | 1.35 | 0.13 | 15.5 |
| 4/21/2015 6:35:15 | 42.32 | 37.82 | 283 | 1.37 | 0.13 | 15.5 |
| 4/21/2015 6:35:16 | 42.65 | 38.15 | 283 | 1.33 | 0.13 | 15.5 |
| 4/21/2015 6:35:17 | 42.98 | 38.48 | 280 | 1.39 | 0.13 | 15.3 |
| 4/21/2015 6:35:19 | 43.31 | 38.81 | 279 | 1.32 | 0.13 | 15.2 |
| 4/21/2015 6:35:20 | 43.64 | 39.14 | 280 | 1.35 | 0.13 | 15.3 |
| 4/21/2015 6:35:21 | 43.96 | 39.46 | 280 | 1.34 | 0.13 | 15.3 |
| 4/21/2015 6:35:23 | 44.29 | 39.79 | 279 | 1.39 | 0.13 | 15.2 |
| 4/21/2015 6:35:24 | 44.62 | 40.12 | 281 | 1.43 | 0.13 | 15.3 |
| 4/21/2015 6:35:25 | 44.95 | 40.45 | 283 | 1.40 | 0.13 | 15.5 |
| 4/21/2015 6:35:26 | 45.28 | 40.78 | 280 | 1.31 | 0.13 | 15.3 |
| 4/21/2015 6:35:27 | 45.60 | 41.10 | 277 | 1.35 | 0.13 | 15.2 |
| 4/21/2015 6:35:29 | 45.93 | 41.43 | 281 | 1.39 | 0.13 | 15.3 |
| 4/21/2015 6:35:30 | 46.26 | 41.76 | 284 | 1.40 | 0.13 | 15.5 |
| 4/21/2015 6:35:32 | 46.59 | 42.09 | 280 | 1.46 | 0.13 | 15.3 |
| 4/21/2015 6:35:33 | 46.92 | 42.42 | 274 | 1.39 | 0.13 | 15.0 |
| 4/21/2015 6:35:34 | 47.24 | 42.74 | 278 | 1.39 | 0.13 | 15.2 |
| 4/21/2015 6:35:35 | 47.57 | 43.07 | 276 | 1.34 | 0.13 | 15.1 |
| 4/21/2015 6:35:37 | 47.90 | 43.40 | 277 | 1.35 | 0.13 | 15.2 |
| 4/21/2015 6:35:38 | 48.23 | 43.73 | 280 | 1.38 | 0.13 | 15.3 |
| 4/21/2015 6:35:40 | 48.56 | 44.06 | 281 | 1.38 | 0.13 | 15.3 |
| 4/21/2015 6:35:41 | 48.88 | 44.38 | 280 | 1.41 | 0.13 | 15.3 |
| 4/21/2015 6:35:42 | 49.21 | 44.71 | 276 | 1.40 | 0.13 | 15.1 |
| 4/21/2015 6:35:43 | 49.54 | 45.04 | 271 | 1.40 | 0.13 | 14.8 |
| 4/21/2015 6:35:44 | 49.87 | 45.37 | 277 | 1.44 | 0.13 | 15.1 |
| 4/21/2015 6:35:46 | 50.20 | 45.70 | 283 | 1.34 | 0.13 | 15.5 |
| 4/21/2015 6:35:47 | 50.53 | 46.03 | 280 | 1.43 | 0.13 | 15.3 |
| 4/21/2015 6:35:48 | 50.85 | 46.35 | 272 | 1.57 | 0.13 | 14.9 |
| 4/21/2015 6:36:25 | 51.18 | 46.68 | 108 | 1.55 | 1.11 | 5.9 |
| 4/21/2015 6:36:30 | 51.51 | 47.01 | 37 | 1.52 | 1.08 | 2.0 |
| 4/21/2015 6:36:32 | 51.84 | 47.34 | 201 | 1.55 | 1.01 | 11.0 |
| 4/21/2015 6:36:36 | 52.17 | 47.67 | 69 | 1.56 | 0.93 | 3.8 |
| 4/21/2015 6:36:38 | 52.49 | 47.99 | 178 | 1.57 | 1.01 | 9.8 |
| 4/21/2015 6:36:45 | 52.82 | 48.32 | 81 | 1.59 | 1.03 | 4.4 |
| 4/21/2015 6:36:56 | 53.15 | 48.65 | 93 | 1.58 | 1.01 | 5.1 |
| 4/21/2015 6:37:06 | 53.48 | 48.98 | 73 | 1.60 | 0.99 | 4.0 |
| 4/21/2015 6:37:12 | 53.81 | 49.31 | 0 | 1.55 | 1.18 | 0.0 |
| 4/21/2015 6:37:37 | 54.13 | 49.63 | 72 | 1.64 | 1.19 | 3.9 |
| 4/21/2015 6:37:39 | 54.46 | 49.96 | 147 | 1.62 | 1.07 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 6:38:06 | 54.79 | 50.29 | 105 | 1.61 | 1.15 | 5.7 |
| 4/21/2015 | 6:38:09 | 55.12 | 50.62 | 107 | 1.64 | 1.15 | 5.8 |
| 4/21/2015 | 6:38:12 | 55.45 | 50.95 | 138 | 1.62 | 1.23 | 7.5 |
| 4/21/2015 | 6:38:14 | 55.77 | 51.27 | 136 | 1.61 | 1.03 | 7.4 |
| 4/21/2015 | 6:38:23 | 56.10 | 51.60 | 0 | 1.53 | 0.90 | 0.0 |
| 4/21/2015 | 6:38:25 | 56.43 | 51.93 | 131 | 1.64 | 1.02 | 7.2 |
| 4/21/2015 | 6:38:27 | 56.76 | 52.26 | 162 | 1.64 | 1.11 | 8.9 |
| 4/21/2015 | 6:38:34 | 57.09 | 52.59 | 52 | 1.58 | 1.13 | 2.8 |
| 4/21/2015 | 6:38:38 | 57.41 | 52.91 | 78 | 1.60 | 1.13 | 4.3 |
| 4/21/2015 | 6:38:45 | 57.74 | 53.24 | 67 | 1.61 | 1.11 | 3.6 |
| 4/21/2015 | 6:38:52 | 58.07 | 53.57 | 72 | 1.65 | 1.10 | 3.9 |
| 4/21/2015 | 6:38:54 | 58.40 | 53.90 | 133 | 1.63 | 1.06 | 7.3 |
| 4/21/2015 | 6:39:04 | 58.73 | 54.23 | 90 | 1.66 | 1.12 | 4.9 |
| 4/21/2015 | 6:39:07 | 59.06 | 54.56 | 134 | 1.59 | 1.09 | 7.3 |
| 4/21/2015 | 6:39:11 | 59.38 | 54.88 | 80 | 1.60 | 1.13 | 4.4 |
| 4/21/2015 | 6:39:16 | 59.62 | 55.12 | 38 | 1.61 | 1.12 | 2.1 |

## E12 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 6:31:25

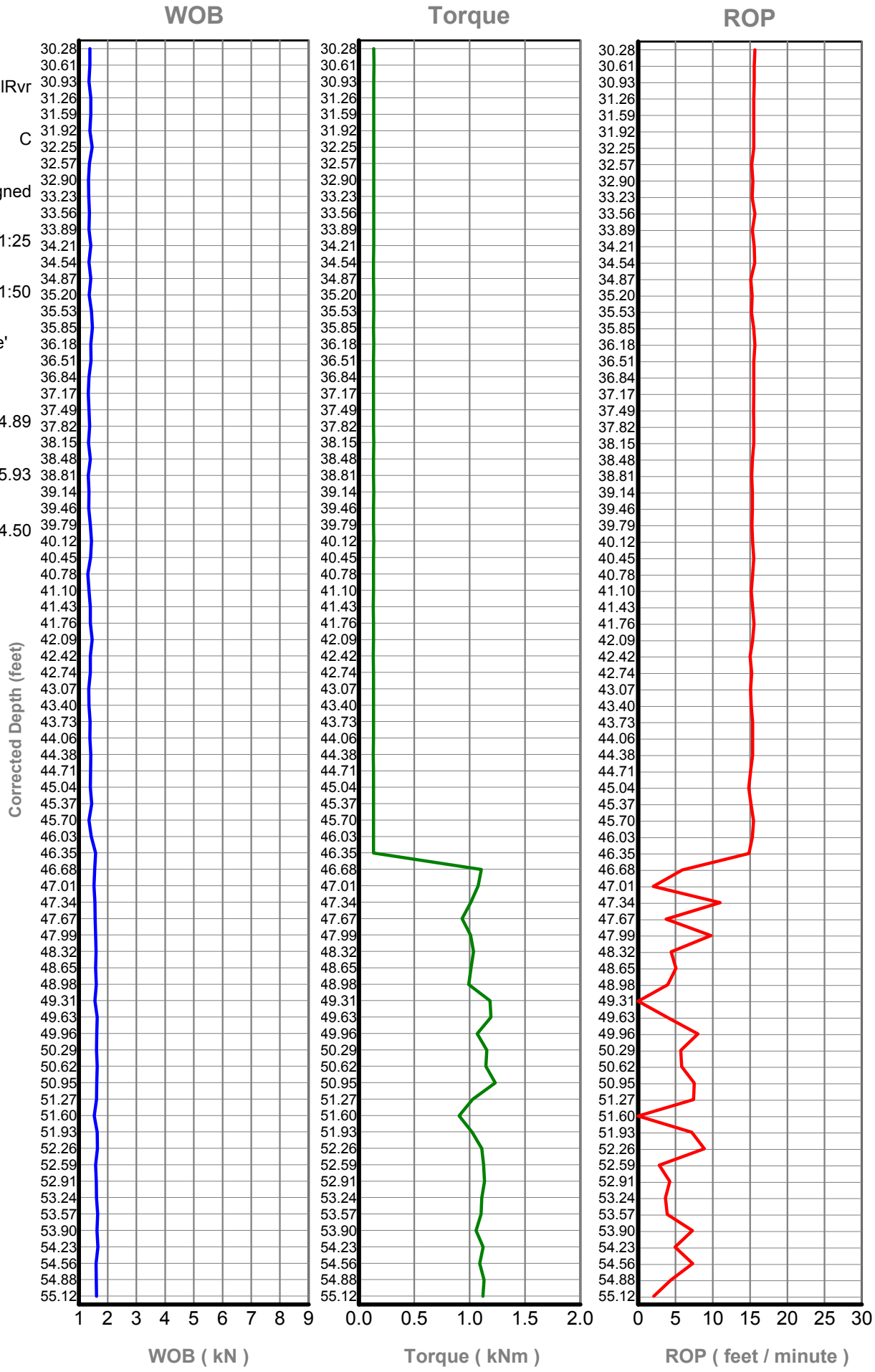
**End Date:**
4/21/2015 6:41:50

**Operator Note:**
'4.5 4.6 c Auto Complete'

**Northing:**
368,684.89

**Easting:**
252,925.93

**Tide (feet):**
4.50



## Hole: E120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 22:23:56 | 30.51 | 30.01 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/21/2015 22:23:56 | 30.84 | 30.34 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/21/2015 22:23:57 | 31.17 | 30.67 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:23:57 | 31.50 | 31.00 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:23:58 | 31.82 | 31.32 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:23:58 | 32.15 | 31.65 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/21/2015 22:23:58 | 32.48 | 31.98 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:23:59 | 32.81 | 32.31 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:23:59 | 33.14 | 32.64 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/21/2015 22:23:59 | 33.46 | 32.96 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/21/2015 22:23:59 | 33.79 | 33.29 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 22:24:00 | 34.12 | 33.62 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/21/2015 22:24:00 | 34.45 | 33.95 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/21/2015 22:24:00 | 34.78 | 34.28 | 1,047 | 0.30 | 0.31 | 57.2 |
| 4/21/2015 22:24:01 | 35.11 | 34.61 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/21/2015 22:24:01 | 35.43 | 34.93 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/21/2015 22:24:01 | 35.76 | 35.26 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/21/2015 22:24:02 | 36.09 | 35.59 | 1,045 | 0.35 | 0.31 | 57.2 |
| 4/21/2015 22:24:02 | 36.42 | 35.92 | 1,045 | 0.35 | 0.31 | 57.2 |
| 4/21/2015 22:24:02 | 36.75 | 36.25 | 1,039 | 0.31 | 0.32 | 56.8 |
| 4/21/2015 22:24:03 | 37.07 | 36.57 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:24:03 | 37.40 | 36.90 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:24:03 | 37.73 | 37.23 | 1,043 | 0.31 | 0.31 | 57.1 |
| 4/21/2015 22:24:04 | 38.06 | 37.56 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:04 | 38.39 | 37.89 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:04 | 38.71 | 38.21 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/21/2015 22:24:05 | 39.04 | 38.54 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:05 | 39.37 | 38.87 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:05 | 39.70 | 39.20 | 1,049 | 0.31 | 0.31 | 57.3 |
| 4/21/2015 22:24:06 | 40.03 | 39.53 | 1,049 | 0.31 | 0.31 | 57.3 |
| 4/21/2015 22:24:06 | 40.35 | 39.85 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/21/2015 22:24:06 | 40.68 | 40.18 | 1,055 | 0.10 | 0.31 | 57.7 |
| 4/21/2015 22:24:07 | 41.01 | 40.51 | 1,055 | 0.10 | 0.31 | 57.7 |
| 4/21/2015 22:24:07 | 41.34 | 40.84 | 1,065 | 0.31 | 0.31 | 58.2 |
| 4/21/2015 22:24:08 | 41.67 | 41.17 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:24:08 | 41.99 | 41.49 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:24:08 | 42.32 | 41.82 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/21/2015 22:24:09 | 42.65 | 42.15 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:09 | 42.98 | 42.48 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:09 | 43.31 | 42.81 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:10 | 43.64 | 43.14 | 1,043 | 0.31 | 0.31 | 57.0 |
| 4/21/2015 22:24:10 | 43.96 | 43.46 | 1,043 | 0.31 | 0.31 | 57.0 |
| 4/21/2015 22:24:10 | 44.29 | 43.79 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 22:24:11 | 44.62 | 44.12 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/21/2015 22:24:11 | 44.95 | 44.45 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/21/2015 22:24:11 | 45.28 | 44.78 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/21/2015 22:24:12 | 45.60 | 45.10 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/21/2015 22:24:12 | 45.93 | 45.43 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/21/2015 22:24:12 | 46.26 | 45.76 | 1,043 | 0.31 | 0.31 | 57.1 |
| 4/21/2015 22:24:13 | 46.59 | 46.09 | 1,026 | 0.29 | 0.37 | 56.1 |
| 4/21/2015 22:24:30 | 46.92 | 46.42 | 62 | 2.82 | 0.36 | 3.4 |
| 4/21/2015 22:24:36 | 47.24 | 46.74 | 44 | 3.54 | 0.39 | 2.4 |
| 4/21/2015 22:24:43 | 47.57 | 47.07 | 52 | 3.74 | 0.40 | 2.8 |
| 4/21/2015 22:24:50 | 47.90 | 47.40 | 55 | 3.78 | 0.38 | 3.0 |
| 4/21/2015 22:24:56 | 48.23 | 47.73 | 63 | 3.71 | 0.40 | 3.5 |
| 4/21/2015 22:25:01 | 48.56 | 48.06 | 66 | 3.23 | 0.38 | 3.6 |
| 4/21/2015 22:25:02 | 48.63 | 48.13 | 66 | 4.05 | 0.39 | 3.6 |

## E120 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 22:20:12

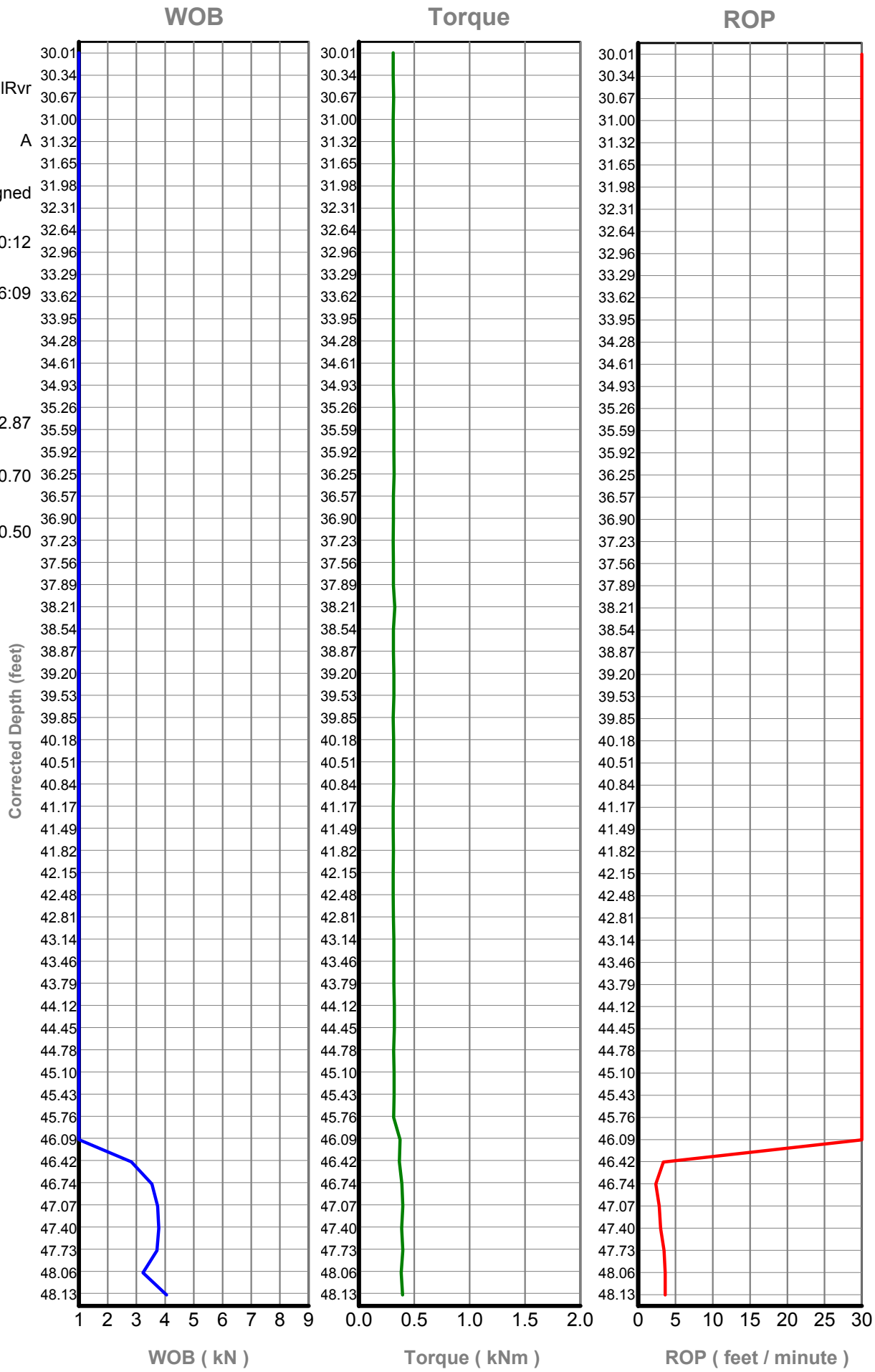
**End Date:**
4/21/2015 22:26:09

**Operator Note:**
'0.5 .6 b Auto Complete'

**Northing:**
368,162.87

**Easting:**
252,870.70

**Tide (feet):**
0.50



## Hole: E121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 22:17:00 | 30.84 | 30.14 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/21/2015 22:17:01 | 31.17 | 30.47 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/21/2015 22:17:01 | 31.50 | 30.80 | 1,047 | 0.30 | 0.31 | 57.2 |
| 4/21/2015 22:17:02 | 31.82 | 31.12 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/21/2015 22:17:02 | 32.15 | 31.45 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/21/2015 22:17:02 | 32.48 | 31.78 | 1,040 | 0.29 | 0.31 | 56.9 |
| 4/21/2015 22:17:03 | 32.81 | 32.11 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/21/2015 22:17:03 | 33.14 | 32.44 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/21/2015 22:17:03 | 33.46 | 32.76 | 1,045 | 0.30 | 0.31 | 57.2 |
| 4/21/2015 22:17:04 | 33.79 | 33.09 | 1,045 | 0.30 | 0.31 | 57.2 |
| 4/21/2015 22:17:04 | 34.12 | 33.42 | 1,045 | 0.30 | 0.31 | 57.2 |
| 4/21/2015 22:17:04 | 34.45 | 33.75 | 1,051 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 22:17:05 | 34.78 | 34.08 | 1,051 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 22:17:05 | 35.11 | 34.41 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 22:17:05 | 35.43 | 34.73 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 22:17:06 | 35.76 | 35.06 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 22:17:06 | 36.09 | 35.39 | 1,043 | 0.30 | 0.31 | 57.1 |
| 4/21/2015 22:17:06 | 36.42 | 35.72 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/21/2015 22:17:07 | 36.75 | 36.05 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/21/2015 22:17:07 | 37.07 | 36.37 | 1,035 | 0.30 | 0.32 | 56.6 |
| 4/21/2015 22:17:07 | 37.40 | 36.70 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/21/2015 22:17:08 | 37.73 | 37.03 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/21/2015 22:17:08 | 38.06 | 37.36 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/21/2015 22:17:08 | 38.39 | 37.69 | 1,035 | 0.30 | 0.31 | 56.6 |
| 4/21/2015 22:17:09 | 38.71 | 38.01 | 1,035 | 0.30 | 0.31 | 56.6 |
| 4/21/2015 22:17:09 | 39.04 | 38.34 | 1,032 | 0.22 | 0.31 | 56.4 |
| 4/21/2015 22:17:09 | 39.37 | 38.67 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/21/2015 22:17:10 | 39.70 | 39.00 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/21/2015 22:17:10 | 40.03 | 39.33 | 1,033 | 0.31 | 0.32 | 56.5 |
| 4/21/2015 22:17:10 | 40.35 | 39.65 | 1,030 | 0.41 | 0.33 | 56.3 |
| 4/21/2015 22:17:11 | 40.68 | 39.98 | 1,030 | 0.41 | 0.33 | 56.3 |
| 4/21/2015 22:17:11 | 41.01 | 40.31 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/21/2015 22:17:12 | 41.34 | 40.64 | 1,018 | 0.24 | 0.31 | 55.7 |
| 4/21/2015 22:17:12 | 41.67 | 40.97 | 1,018 | 0.24 | 0.31 | 55.7 |
| 4/21/2015 22:17:12 | 41.99 | 41.29 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/21/2015 22:17:13 | 42.32 | 41.62 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/21/2015 22:17:13 | 42.65 | 41.95 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/21/2015 22:17:13 | 42.98 | 42.28 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/21/2015 22:17:14 | 43.31 | 42.61 | 1,012 | 0.27 | 0.31 | 55.3 |
| 4/21/2015 22:17:14 | 43.64 | 42.94 | 1,012 | 0.27 | 0.31 | 55.3 |
| 4/21/2015 22:17:14 | 43.96 | 43.26 | 1,015 | 0.29 | 0.31 | 55.5 |
| 4/21/2015 22:17:15 | 44.29 | 43.59 | 1,001 | 0.28 | 0.33 | 54.7 |
| 4/21/2015 22:17:15 | 44.62 | 43.92 | 1,013 | 0.33 | 0.30 | 55.4 |
| 4/21/2015 22:17:16 | 44.95 | 44.25 | 1,013 | 0.33 | 0.30 | 55.4 |
| 4/21/2015 22:17:16 | 45.28 | 44.58 | 1,000 | 0.33 | 0.31 | 54.7 |
| 4/21/2015 22:17:16 | 45.60 | 44.90 | 1,015 | 0.35 | 0.33 | 55.5 |
| 4/21/2015 22:17:17 | 45.93 | 45.23 | 1,015 | 0.35 | 0.33 | 55.5 |
| 4/21/2015 22:17:17 | 46.26 | 45.56 | 1,001 | 0.30 | 0.32 | 54.7 |
| 4/21/2015 22:17:17 | 46.59 | 45.89 | 995 | 0.30 | 0.33 | 54.4 |
| 4/21/2015 22:17:18 | 46.92 | 46.22 | 995 | 0.30 | 0.33 | 54.4 |
| 4/21/2015 22:17:18 | 47.24 | 46.54 | 961 | 0.31 | 0.32 | 52.6 |
| 4/21/2015 22:17:18 | 47.57 | 46.87 | 961 | 0.29 | 0.32 | 52.6 |
| 4/21/2015 22:17:19 | 47.90 | 47.20 | 951 | 0.31 | 0.32 | 52.0 |
| 4/21/2015 22:17:19 | 48.23 | 47.53 | 951 | 0.31 | 0.32 | 52.0 |
| 4/21/2015 22:17:19 | 48.56 | 47.86 | 916 | 0.30 | 0.33 | 50.1 |
| 4/21/2015 22:17:20 | 48.88 | 48.18 | 900 | 0.22 | 0.33 | 49.2 |
| 4/21/2015 22:17:20 | 49.21 | 48.51 | 896 | 0.47 | 0.34 | 49.0 |
| 4/21/2015 22:17:21 | 49.54 | 48.84 | 890 | 0.29 | 0.34 | 48.7 |
| 4/21/2015 22:17:22 | 49.87 | 49.17 | 859 | 0.39 | 0.35 | 47.0 |
| 4/21/2015 22:17:22 | 50.20 | 49.50 | 816 | 0.31 | 0.34 | 44.6 |
| 4/21/2015 22:17:23 | 50.53 | 49.83 | 816 | 0.31 | 0.34 | 44.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 22:17:23 | 50.85 | 50.15 | 803 | 0.35 | 0.34 | 43.9 |
| 4/21/2015 | 22:17:23 | 51.18 | 50.48 | 761 | 0.27 | 0.34 | 41.6 |
| 4/21/2015 | 22:17:24 | 51.51 | 50.81 | 663 | 0.29 | 0.37 | 36.3 |
| 4/21/2015 | 22:17:56 | 51.84 | 51.14 | 49 | 3.37 | 0.39 | 2.7 |
| 4/21/2015 | 22:18:01 | 52.17 | 51.47 | 46 | 2.80 | 0.36 | 2.5 |
| 4/21/2015 | 22:18:02 | 52.49 | 51.79 | 118 | 3.11 | 0.34 | 6.4 |
| 4/21/2015 | 22:18:04 | 52.82 | 52.12 | 250 | 3.29 | 0.39 | 13.7 |
| 4/21/2015 | 22:18:10 | 53.15 | 52.45 | 0 | 2.57 | 0.37 | 0.0 |
| 4/21/2015 | 22:18:15 | 53.48 | 52.78 | 75 | 3.58 | 0.39 | 4.1 |
| 4/21/2015 | 22:18:20 | 53.81 | 53.11 | 66 | 3.54 | 0.39 | 3.6 |
| 4/21/2015 | 22:18:26 | 54.13 | 53.43 | 66 | 3.39 | 0.39 | 3.6 |
| 4/21/2015 | 22:18:31 | 54.46 | 53.76 | 66 | 3.43 | 0.40 | 3.6 |
| 4/21/2015 | 22:18:34 | 54.67 | 53.97 | 69 | 3.86 | 0.39 | 3.8 |

## E121 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 22:06:24

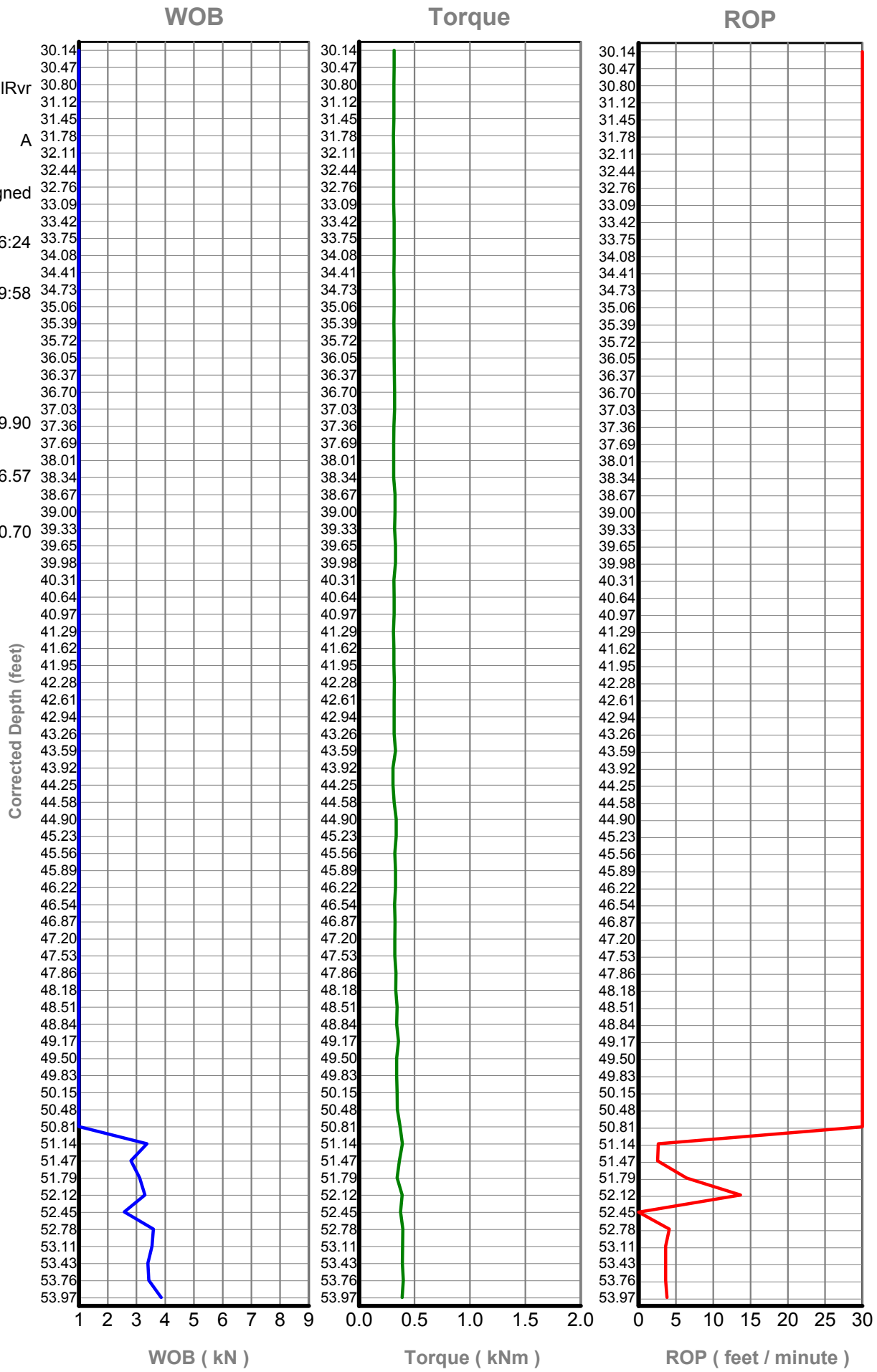
**End Date:**
4/21/2015 22:19:58

**Operator Note:**
'0.7 .6 b Auto Complete'

**Northing:**
368,199.90

**Easting:**
252,916.57

**Tide (feet):**
0.70



## Hole: E122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 22:17:01 | 30.51 | 30.01 | 1,470 | 3.26 | 0.15 | 80.4 |
| 4/21/2015 22:17:02 | 30.84 | 30.34 | 1,470 | 3.26 | 0.15 | 80.4 |
| 4/21/2015 22:17:02 | 31.17 | 30.67 | 1,470 | 3.28 | 0.15 | 80.4 |
| 4/21/2015 22:17:02 | 31.50 | 31.00 | 1,470 | 3.28 | 0.15 | 80.4 |
| 4/21/2015 22:17:02 | 31.82 | 31.32 | 1,467 | 3.25 | 0.15 | 80.2 |
| 4/21/2015 22:17:03 | 32.15 | 31.65 | 1,467 | 3.25 | 0.15 | 80.2 |
| 4/21/2015 22:17:03 | 32.48 | 31.98 | 1,516 | 3.25 | 0.15 | 82.9 |
| 4/21/2015 22:17:03 | 32.81 | 32.31 | 1,516 | 3.25 | 0.15 | 82.9 |
| 4/21/2015 22:17:03 | 33.14 | 32.64 | 1,506 | 3.22 | 0.15 | 82.4 |
| 4/21/2015 22:17:04 | 33.46 | 32.96 | 1,506 | 3.22 | 0.15 | 82.4 |
| 4/21/2015 22:17:04 | 33.79 | 33.29 | 1,506 | 3.22 | 0.15 | 82.4 |
| 4/21/2015 22:17:04 | 34.12 | 33.62 | 1,509 | 3.24 | 0.15 | 82.5 |
| 4/21/2015 22:17:04 | 34.45 | 33.95 | 1,509 | 3.24 | 0.15 | 82.5 |
| 4/21/2015 22:17:04 | 34.78 | 34.28 | 1,465 | 3.05 | 0.15 | 80.1 |
| 4/21/2015 22:17:05 | 35.11 | 34.61 | 1,465 | 3.05 | 0.15 | 80.1 |
| 4/21/2015 22:17:05 | 35.43 | 34.93 | 1,465 | 3.23 | 0.15 | 80.1 |
| 4/21/2015 22:17:05 | 35.76 | 35.26 | 1,465 | 3.23 | 0.15 | 80.1 |
| 4/21/2015 22:17:05 | 36.09 | 35.59 | 1,480 | 3.23 | 0.15 | 81.0 |
| 4/21/2015 22:17:06 | 36.42 | 35.92 | 1,480 | 3.23 | 0.15 | 81.0 |
| 4/21/2015 22:17:06 | 36.75 | 36.25 | 1,468 | 3.24 | 0.15 | 80.3 |
| 4/21/2015 22:17:06 | 37.07 | 36.57 | 1,468 | 3.24 | 0.15 | 80.3 |
| 4/21/2015 22:17:07 | 37.40 | 36.90 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/21/2015 22:17:07 | 37.73 | 37.23 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/21/2015 22:17:07 | 38.06 | 37.56 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/21/2015 22:17:07 | 38.39 | 37.89 | 1,451 | 3.26 | 0.15 | 79.4 |
| 4/21/2015 22:17:07 | 38.71 | 38.21 | 1,451 | 3.26 | 0.15 | 79.4 |
| 4/21/2015 22:17:08 | 39.04 | 38.54 | 1,451 | 3.28 | 0.15 | 79.4 |
| 4/21/2015 22:17:08 | 39.37 | 38.87 | 1,451 | 3.28 | 0.15 | 79.4 |
| 4/21/2015 22:17:08 | 39.70 | 39.20 | 1,506 | 3.22 | 0.15 | 82.4 |
| 4/21/2015 22:17:08 | 40.03 | 39.53 | 1,506 | 3.22 | 0.15 | 82.4 |
| 4/21/2015 22:17:09 | 40.35 | 39.85 | 1,436 | 3.24 | 0.15 | 78.5 |
| 4/21/2015 22:17:09 | 40.68 | 40.18 | 1,436 | 3.24 | 0.15 | 78.5 |
| 4/21/2015 22:17:09 | 41.01 | 40.51 | 1,436 | 3.26 | 0.15 | 78.5 |
| 4/21/2015 22:17:09 | 41.34 | 40.84 | 1,436 | 3.26 | 0.15 | 78.5 |
| 4/21/2015 22:17:10 | 41.67 | 41.17 | 1,430 | 3.19 | 0.15 | 78.2 |
| 4/21/2015 22:17:10 | 41.99 | 41.49 | 1,430 | 3.19 | 0.15 | 78.2 |
| 4/21/2015 22:17:10 | 42.32 | 41.82 | 1,430 | 3.23 | 0.15 | 78.2 |
| 4/21/2015 22:17:10 | 42.65 | 42.15 | 1,430 | 3.23 | 0.15 | 78.2 |
| 4/21/2015 22:17:11 | 42.98 | 42.48 | 1,430 | 3.23 | 0.15 | 78.2 |
| 4/21/2015 22:17:11 | 43.31 | 42.81 | 1,476 | 3.24 | 0.15 | 80.7 |
| 4/21/2015 22:17:11 | 43.64 | 43.14 | 1,476 | 3.24 | 0.15 | 80.7 |
| 4/21/2015 22:17:11 | 43.96 | 43.46 | 1,437 | 3.23 | 0.15 | 78.6 |
| 4/21/2015 22:17:11 | 44.29 | 43.79 | 1,437 | 3.23 | 0.15 | 78.6 |
| 4/21/2015 22:17:12 | 44.62 | 44.12 | 1,437 | 3.26 | 0.15 | 78.6 |
| 4/21/2015 22:17:12 | 44.95 | 44.45 | 1,437 | 3.26 | 0.15 | 78.6 |
| 4/21/2015 22:17:12 | 45.28 | 44.78 | 1,450 | 3.24 | 0.15 | 79.3 |
| 4/21/2015 22:17:13 | 45.60 | 45.10 | 1,450 | 3.24 | 0.15 | 79.3 |
| 4/21/2015 22:17:13 | 45.93 | 45.43 | 1,459 | 3.22 | 0.15 | 79.8 |
| 4/21/2015 22:17:13 | 46.26 | 45.76 | 1,459 | 3.22 | 0.15 | 79.8 |
| 4/21/2015 22:17:13 | 46.59 | 46.09 | 1,471 | 3.25 | 0.15 | 80.5 |
| 4/21/2015 22:17:14 | 46.92 | 46.42 | 1,471 | 3.25 | 0.15 | 80.5 |
| 4/21/2015 22:17:14 | 47.24 | 46.74 | 1,471 | 3.25 | 0.15 | 80.5 |
| 4/21/2015 22:17:14 | 47.57 | 47.07 | 1,471 | 3.26 | 0.15 | 80.5 |
| 4/21/2015 22:17:14 | 47.90 | 47.40 | 1,471 | 3.26 | 0.15 | 80.5 |
| 4/21/2015 22:17:14 | 48.23 | 47.73 | 1,456 | 3.23 | 0.15 | 79.6 |
| 4/21/2015 22:17:15 | 48.56 | 48.06 | 1,456 | 3.23 | 0.15 | 79.6 |
| 4/21/2015 22:17:15 | 48.88 | 48.38 | 1,465 | 3.25 | 0.15 | 80.1 |
| 4/21/2015 22:17:15 | 49.21 | 48.71 | 1,465 | 3.25 | 0.15 | 80.1 |
| 4/21/2015 22:17:16 | 49.54 | 49.04 | 1,465 | 1.83 | 0.15 | 80.1 |
| 4/21/2015 22:17:41 | 49.87 | 49.37 | 0 | 3.39 | 1.23 | 0.0 |
| 4/21/2015 22:17:44 | 50.20 | 49.70 | 140 | 1.79 | 1.17 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 22:17:45 | 50.53 | 50.03 | 171 | 1.78 | 1.13 | 9.4 |
| 4/21/2015 | 22:17:50 | 50.85 | 50.35 | 109 | 2.00 | 1.53 | 5.9 |
| 4/21/2015 | 22:17:51 | 51.18 | 50.68 | 226 | 1.67 | 1.11 | 12.4 |
| 4/21/2015 | 22:18:00 | 51.51 | 51.01 | 95 | 1.69 | 1.17 | 5.2 |
| 4/21/2015 | 22:18:06 | 51.84 | 51.34 | 95 | 1.68 | 1.14 | 5.2 |
| 4/21/2015 | 22:18:08 | 52.17 | 51.67 | 224 | 1.73 | 1.09 | 12.3 |
| 4/21/2015 | 22:18:29 | 52.49 | 51.99 | 66 | 1.74 | 1.13 | 3.6 |
| 4/21/2015 | 22:18:31 | 52.82 | 52.32 | 210 | 1.70 | 1.16 | 11.5 |
| 4/21/2015 | 22:18:56 | 53.15 | 52.65 | 46 | 1.79 | 1.07 | 2.5 |
| 4/21/2015 | 22:18:58 | 53.48 | 52.98 | 193 | 1.74 | 1.17 | 10.5 |
| 4/21/2015 | 22:19:15 | 53.81 | 53.31 | 90 | 1.96 | 1.12 | 4.9 |
| 4/21/2015 | 22:19:16 | 54.13 | 53.63 | 209 | 2.06 | 1.20 | 11.4 |
| 4/21/2015 | 22:19:17 | 54.46 | 53.96 | 295 | 1.82 | 1.23 | 16.1 |
| 4/21/2015 | 22:19:19 | 54.79 | 54.29 | 295 | 1.87 | 1.09 | 16.1 |
| 4/21/2015 | 22:19:20 | 55.12 | 54.62 | 292 | 2.03 | 1.09 | 16.0 |
| 4/21/2015 | 22:19:22 | 55.45 | 54.95 | 180 | 1.90 | 1.09 | 9.8 |
| 4/21/2015 | 22:19:24 | 55.66 | 55.16 | 136 | 1.87 | 1.12 | 7.4 |

## E122 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 22:15:49

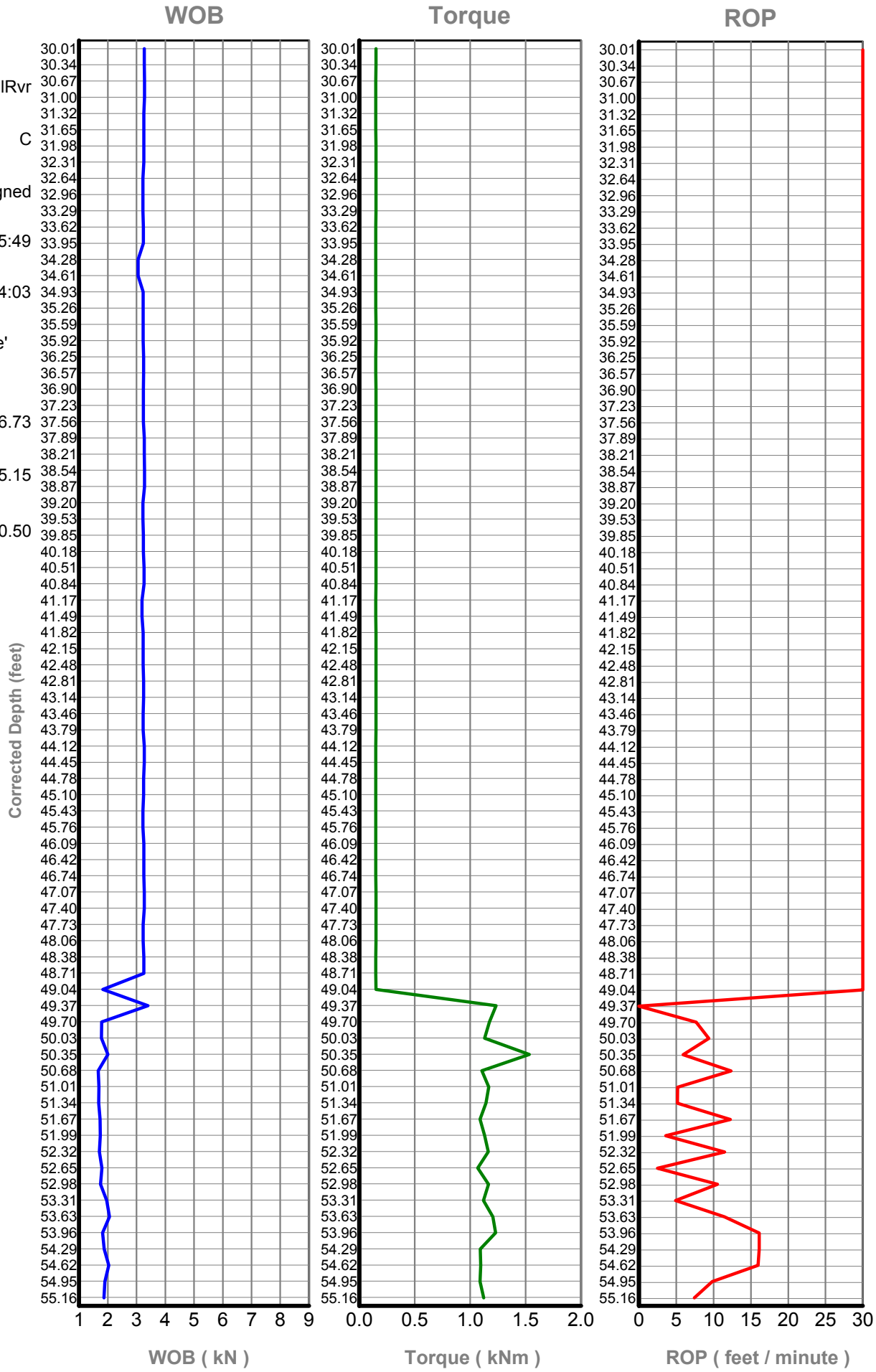
**End Date:**
4/21/2015 22:24:03

**Operator Note:**
'0.5 0.6 c Auto Complete'

**Northing:**
368,246.73

**Easting:**
252,975.15

**Tide (feet):**
0.50



## Hole: E123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:43:45 | 31.82 | 30.32 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:43:45 | 32.15 | 30.65 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 9:43:45 | 32.48 | 30.98 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:43:46 | 32.81 | 31.31 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:43:46 | 33.14 | 31.64 | 1,005 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:46 | 33.46 | 31.96 | 1,005 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:47 | 33.79 | 32.29 | 1,005 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:47 | 34.12 | 32.62 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:47 | 34.45 | 32.95 | 1,016 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:43:48 | 34.78 | 33.28 | 1,016 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:43:48 | 35.11 | 33.61 | 1,016 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:43:48 | 35.43 | 33.93 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:49 | 35.76 | 34.26 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:49 | 36.09 | 34.59 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:49 | 36.42 | 34.92 | 1,023 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 9:43:50 | 36.75 | 35.25 | 1,023 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 9:43:50 | 37.07 | 35.57 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 9:43:50 | 37.40 | 35.90 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:51 | 37.73 | 36.23 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 9:43:51 | 38.06 | 36.56 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 9:43:51 | 38.39 | 36.89 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:52 | 38.71 | 37.21 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:43:52 | 39.04 | 37.54 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:43:52 | 39.37 | 37.87 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:53 | 39.70 | 38.20 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 9:43:53 | 40.03 | 38.53 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 9:43:53 | 40.35 | 38.85 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:54 | 40.68 | 39.18 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:54 | 41.01 | 39.51 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:54 | 41.34 | 39.84 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 9:43:55 | 41.67 | 40.17 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 9:43:55 | 41.99 | 40.49 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 9:43:55 | 42.32 | 40.82 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:56 | 42.65 | 41.15 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:57 | 42.98 | 41.48 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:43:57 | 43.31 | 41.81 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:57 | 43.64 | 42.14 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:58 | 43.96 | 42.46 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:58 | 44.29 | 42.79 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:43:58 | 44.62 | 43.12 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:59 | 44.95 | 43.45 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:59 | 45.28 | 43.78 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 9:43:59 | 45.60 | 44.10 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:44:00 | 45.93 | 44.43 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:44:00 | 46.26 | 44.76 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:44:00 | 46.59 | 45.09 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:44:01 | 46.92 | 45.42 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:44:01 | 47.24 | 45.74 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 9:44:01 | 47.57 | 46.07 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 9:44:02 | 47.90 | 46.40 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:44:02 | 48.23 | 46.73 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 9:44:02 | 48.56 | 47.06 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 9:44:03 | 48.88 | 47.38 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 9:44:03 | 49.21 | 47.71 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 9:44:04 | 49.54 | 48.04 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 9:44:15 | 49.87 | 48.37 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 9:44:20 | 50.20 | 48.70 | 49 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 9:44:21 | 50.53 | 49.03 | 111 | 1.73 | 0.21 | 6.1 |
| 4/21/2015 9:44:22 | 50.85 | 49.35 | 264 | 1.73 | 0.21 | 14.5 |
| 4/21/2015 9:44:28 | 51.18 | 49.68 | 68 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 9:44:32 | 51.51 | 50.01 | 76 | 1.73 | 0.21 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:44:35 | 51.84 | 50.34 | 131 | 1.73 | 0.21 | 7.2 |
| 4/21/2015 | 9:44:36 | 52.17 | 50.67 | 165 | 1.73 | 0.21 | 9.0 |
| 4/21/2015 | 9:44:37 | 52.49 | 50.99 | 264 | 1.73 | 0.21 | 14.4 |
| 4/21/2015 | 9:44:38 | 52.82 | 51.32 | 315 | 1.73 | 0.21 | 17.2 |
| 4/21/2015 | 9:44:39 | 53.15 | 51.65 | 371 | 1.73 | 0.21 | 20.3 |
| 4/21/2015 | 9:44:50 | 53.48 | 51.98 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 9:44:52 | 53.81 | 52.31 | 144 | 1.73 | 0.21 | 7.9 |
| 4/21/2015 | 9:44:58 | 54.13 | 52.63 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 9:45:03 | 54.46 | 52.96 | 72 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 | 9:45:07 | 54.79 | 53.29 | 87 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 9:45:11 | 55.12 | 53.62 | 87 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 9:45:16 | 55.45 | 53.95 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 9:45:21 | 55.77 | 54.27 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 9:45:27 | 56.10 | 54.60 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 9:45:34 | 56.43 | 54.93 | 63 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 | 9:45:37 | 56.64 | 55.14 | 66 | 1.73 | 0.21 | 3.6 |

## E123 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:42:14

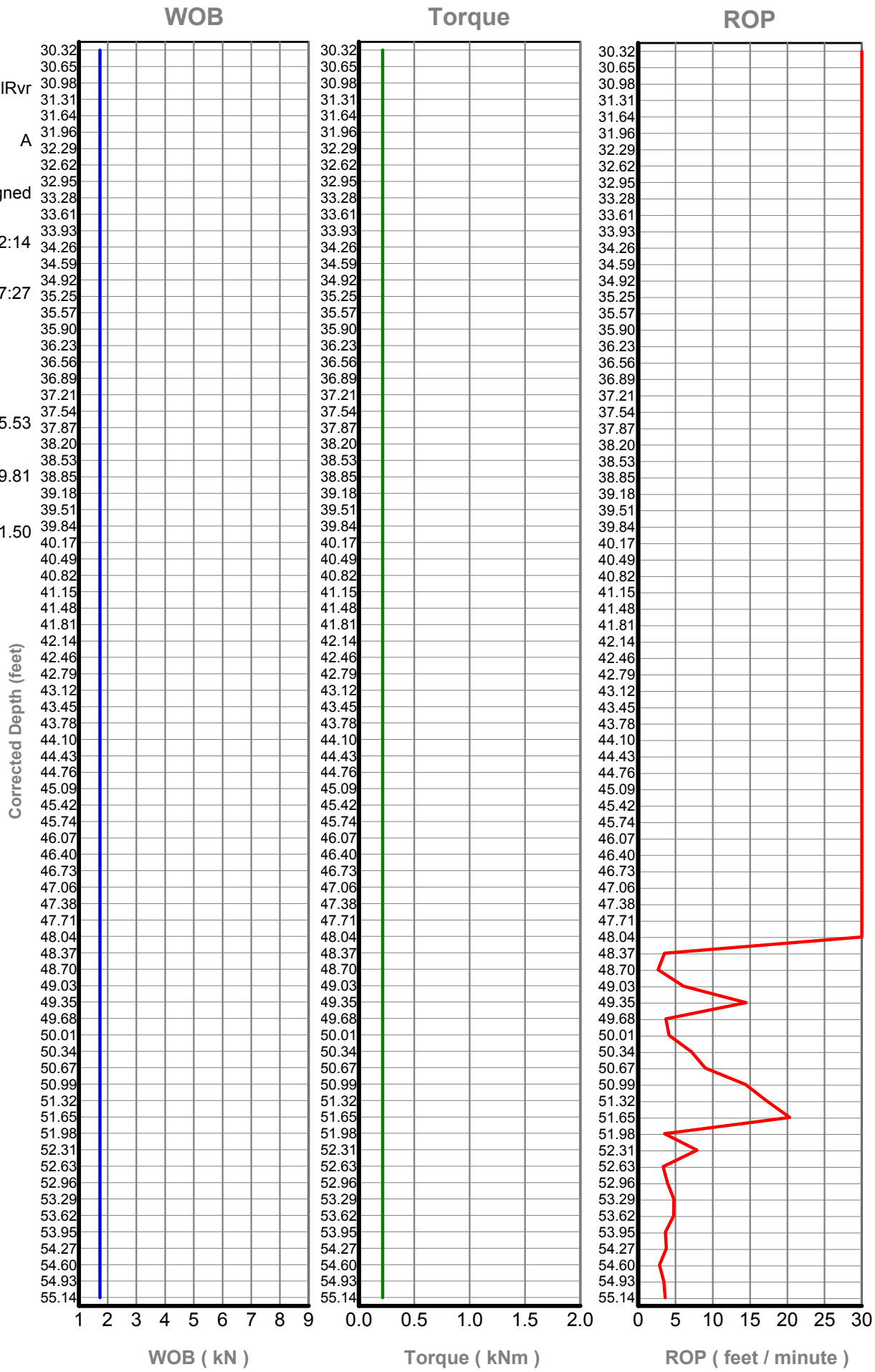
**End Date:**
4/21/2015 9:47:27

**Operator Note:**
'1.5 1.6 b Rock'

**Northing:**
368,315.53

**Easting:**
253,049.81

**Tide (feet):**
1.50



## Hole: E124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:49:22 | 31.50 | 30.10 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:23 | 31.82 | 30.42 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:23 | 32.15 | 30.75 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:23 | 32.48 | 31.08 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:23 | 32.81 | 31.41 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 9:49:24 | 33.14 | 31.74 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 9:49:24 | 33.46 | 32.06 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 9:49:24 | 33.79 | 32.39 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 9:49:25 | 34.12 | 32.72 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:49:25 | 34.45 | 33.05 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:49:25 | 34.78 | 33.38 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:49:26 | 35.11 | 33.71 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:49:26 | 35.43 | 34.03 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 9:49:26 | 35.76 | 34.36 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 9:49:27 | 36.09 | 34.69 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:27 | 36.42 | 35.02 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:27 | 36.75 | 35.35 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 9:49:28 | 37.07 | 35.67 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:28 | 37.40 | 36.00 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:28 | 37.73 | 36.33 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:29 | 38.06 | 36.66 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 9:49:29 | 38.39 | 36.99 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 9:49:29 | 38.71 | 37.31 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:30 | 39.04 | 37.64 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:30 | 39.37 | 37.97 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:30 | 39.70 | 38.30 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:31 | 40.03 | 38.63 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:49:31 | 40.35 | 38.95 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:49:31 | 40.68 | 39.28 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 9:49:32 | 41.01 | 39.61 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:32 | 41.34 | 39.94 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 9:49:32 | 41.67 | 40.27 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:33 | 41.99 | 40.59 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:49:33 | 42.32 | 40.92 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:49:33 | 42.65 | 41.25 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:34 | 42.98 | 41.58 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:49:35 | 43.31 | 41.91 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 9:49:35 | 43.64 | 42.24 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:49:35 | 43.96 | 42.56 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:36 | 44.29 | 42.89 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 9:49:36 | 44.62 | 43.22 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:36 | 44.95 | 43.55 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:49:37 | 45.28 | 43.88 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 9:49:37 | 45.60 | 44.20 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 9:49:37 | 45.93 | 44.53 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:49:38 | 46.26 | 44.86 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:49:38 | 46.59 | 45.19 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 9:49:38 | 46.92 | 45.52 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 9:49:39 | 47.24 | 45.84 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 9:49:39 | 47.57 | 46.17 | 1,023 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 9:49:39 | 47.90 | 46.50 | 1,023 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 9:49:40 | 48.23 | 46.83 | 1,023 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 9:49:40 | 48.56 | 47.16 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 9:49:51 | 48.88 | 47.48 | 54 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 9:49:54 | 49.21 | 47.81 | 77 | 1.73 | 0.21 | 4.2 |
| 4/21/2015 9:49:55 | 49.54 | 48.14 | 186 | 1.73 | 0.21 | 10.2 |
| 4/21/2015 9:50:01 | 49.87 | 48.47 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 9:50:04 | 50.20 | 48.80 | 106 | 1.73 | 0.21 | 5.8 |
| 4/21/2015 9:50:05 | 50.53 | 49.13 | 251 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 9:50:05 | 50.85 | 49.45 | 348 | 1.73 | 0.21 | 19.0 |
| 4/21/2015 9:50:06 | 51.18 | 49.78 | 442 | 1.73 | 0.21 | 24.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:50:07 | 51.51 | 50.11 | 474 | 1.73 | 0.21 | 25.9 |
| 4/21/2015 | 9:50:08 | 51.84 | 50.44 | 483 | 1.73 | 0.21 | 26.4 |
| 4/21/2015 | 9:50:09 | 52.17 | 50.77 | 445 | 1.73 | 0.21 | 24.3 |
| 4/21/2015 | 9:50:10 | 52.49 | 51.09 | 428 | 1.73 | 0.21 | 23.4 |
| 4/21/2015 | 9:50:10 | 52.82 | 51.42 | 415 | 1.73 | 0.21 | 22.7 |
| 4/21/2015 | 9:50:12 | 53.15 | 51.75 | 376 | 1.73 | 0.21 | 20.5 |
| 4/21/2015 | 9:50:14 | 53.48 | 52.08 | 191 | 1.73 | 0.21 | 10.5 |
| 4/21/2015 | 9:50:16 | 53.81 | 52.41 | 127 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 9:50:21 | 54.13 | 52.73 | 88 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 9:50:24 | 54.46 | 53.06 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 9:50:29 | 54.79 | 53.39 | 80 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 9:50:33 | 55.12 | 53.72 | 89 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 9:50:36 | 55.45 | 54.05 | 105 | 1.73 | 0.21 | 5.7 |
| 4/21/2015 | 9:50:54 | 55.77 | 54.37 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 | 9:51:01 | 56.10 | 54.70 | 54 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 9:51:07 | 56.43 | 55.03 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 9:51:08 | 56.48 | 55.08 | 55 | 1.73 | 0.21 | 3.0 |

## E124 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:48:06

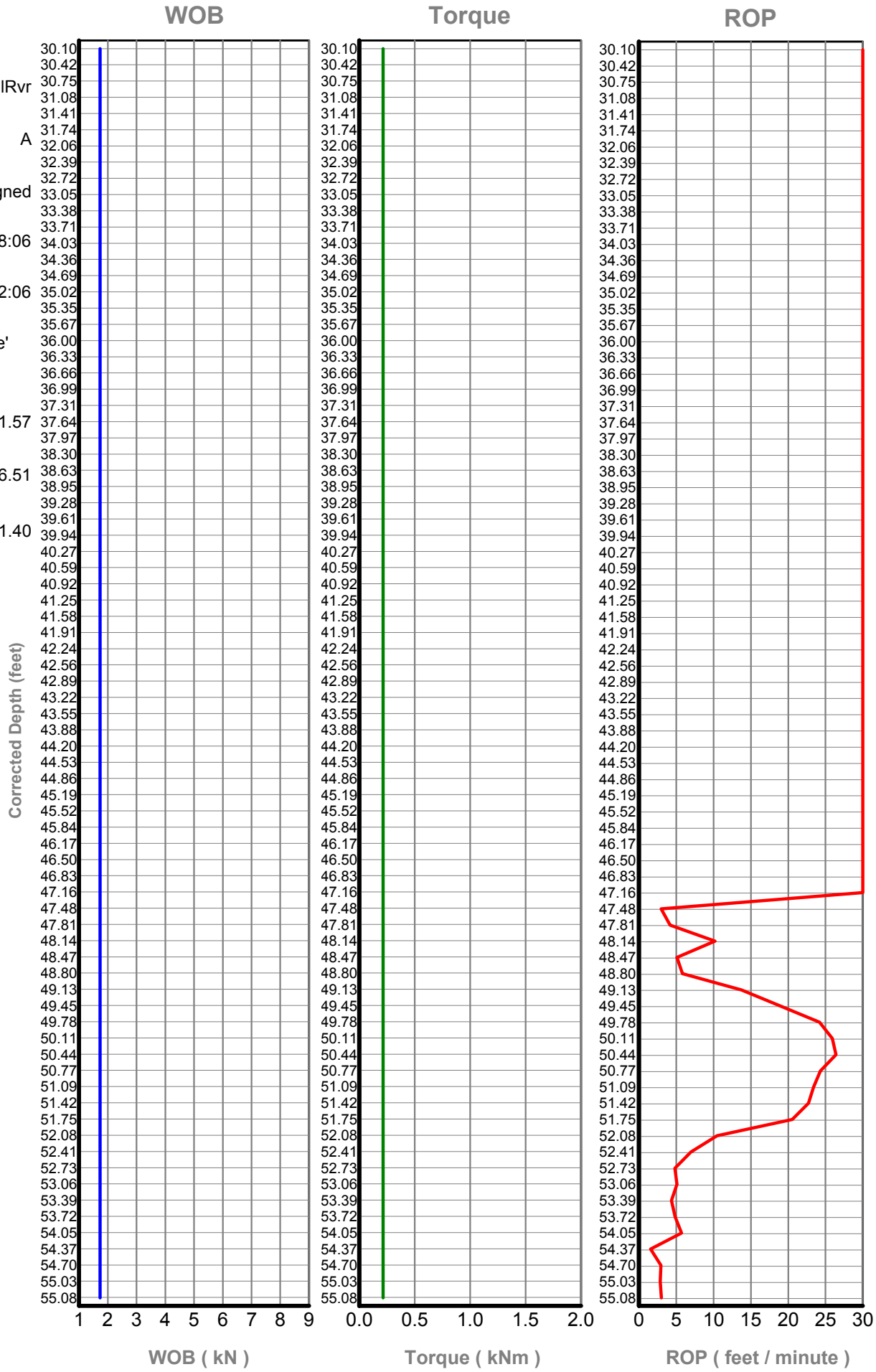
**End Date:**
4/21/2015 10:02:06

**Operator Note:**
'1.4 1.5 b Auto Complete'

**Northing:**
368,351.57

**Easting:**
253,096.51

**Tide (feet):**
1.40



## Hole: E125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 9:49:12 | 31.50 | 30.10 | 275 | 1.19 | 0.26 | 15.0 |
| 4/21/2015 9:49:13 | 31.82 | 30.42 | 275 | 1.33 | 0.25 | 15.0 |
| 4/21/2015 9:49:15 | 32.15 | 30.75 | 270 | 1.32 | 0.26 | 14.8 |
| 4/21/2015 9:49:16 | 32.48 | 31.08 | 272 | 1.30 | 0.26 | 14.9 |
| 4/21/2015 9:49:17 | 32.81 | 31.41 | 279 | 1.10 | 0.25 | 15.3 |
| 4/21/2015 9:49:18 | 33.14 | 31.74 | 271 | 1.27 | 0.26 | 14.8 |
| 4/21/2015 9:49:20 | 33.46 | 32.06 | 277 | 1.24 | 0.26 | 15.2 |
| 4/21/2015 9:49:21 | 33.79 | 32.39 | 276 | 1.21 | 0.26 | 15.1 |
| 4/21/2015 9:49:22 | 34.12 | 32.72 | 278 | 1.23 | 0.25 | 15.2 |
| 4/21/2015 9:49:24 | 34.45 | 33.05 | 275 | 1.32 | 0.26 | 15.0 |
| 4/21/2015 9:49:25 | 34.78 | 33.38 | 270 | 1.22 | 0.25 | 14.8 |
| 4/21/2015 9:49:26 | 35.11 | 33.71 | 278 | 1.25 | 0.25 | 15.2 |
| 4/21/2015 9:49:28 | 35.43 | 34.03 | 278 | 1.27 | 0.25 | 15.2 |
| 4/21/2015 9:49:29 | 35.76 | 34.36 | 269 | 1.24 | 0.25 | 14.7 |
| 4/21/2015 9:49:30 | 36.09 | 34.69 | 272 | 1.22 | 0.25 | 14.9 |
| 4/21/2015 9:49:31 | 36.42 | 35.02 | 272 | 1.24 | 0.25 | 14.9 |
| 4/21/2015 9:49:33 | 36.75 | 35.35 | 272 | 1.32 | 0.25 | 14.9 |
| 4/21/2015 9:49:34 | 37.07 | 35.67 | 275 | 1.22 | 0.25 | 15.0 |
| 4/21/2015 9:49:36 | 37.40 | 36.00 | 275 | 1.16 | 0.25 | 15.1 |
| 4/21/2015 9:49:37 | 37.73 | 36.33 | 274 | 1.26 | 0.25 | 15.0 |
| 4/21/2015 9:49:38 | 38.06 | 36.66 | 275 | 1.21 | 0.25 | 15.0 |
| 4/21/2015 9:49:39 | 38.39 | 36.99 | 275 | 1.17 | 0.25 | 15.0 |
| 4/21/2015 9:49:41 | 38.71 | 37.31 | 272 | 1.21 | 0.25 | 14.9 |
| 4/21/2015 9:49:42 | 39.04 | 37.64 | 267 | 1.25 | 0.25 | 14.6 |
| 4/21/2015 9:49:44 | 39.37 | 37.97 | 270 | 1.30 | 0.25 | 14.7 |
| 4/21/2015 9:49:45 | 39.70 | 38.30 | 277 | 1.32 | 0.25 | 15.2 |
| 4/21/2015 9:49:46 | 40.03 | 38.63 | 275 | 1.32 | 0.25 | 15.0 |
| 4/21/2015 9:49:47 | 40.35 | 38.95 | 275 | 1.24 | 0.25 | 15.0 |
| 4/21/2015 9:49:49 | 40.68 | 39.28 | 272 | 1.13 | 0.25 | 14.9 |
| 4/21/2015 9:49:50 | 41.01 | 39.61 | 271 | 1.24 | 0.25 | 14.8 |
| 4/21/2015 9:49:51 | 41.34 | 39.94 | 269 | 1.21 | 0.25 | 14.7 |
| 4/21/2015 9:49:52 | 41.67 | 40.27 | 270 | 1.27 | 0.25 | 14.8 |
| 4/21/2015 9:49:54 | 41.99 | 40.59 | 275 | 1.34 | 0.25 | 15.0 |
| 4/21/2015 9:49:55 | 42.32 | 40.92 | 275 | 1.21 | 0.25 | 15.0 |
| 4/21/2015 9:49:57 | 42.65 | 41.25 | 270 | 1.27 | 0.25 | 14.8 |
| 4/21/2015 9:49:58 | 42.98 | 41.58 | 272 | 1.39 | 0.25 | 14.9 |
| 4/21/2015 9:49:59 | 43.31 | 41.91 | 275 | 1.24 | 0.25 | 15.0 |
| 4/21/2015 9:50:00 | 43.64 | 42.24 | 273 | 1.29 | 0.25 | 14.9 |
| 4/21/2015 9:50:02 | 43.96 | 42.56 | 269 | 1.31 | 0.25 | 14.7 |
| 4/21/2015 9:50:03 | 44.29 | 42.89 | 270 | 1.28 | 0.25 | 14.8 |
| 4/21/2015 9:50:05 | 44.62 | 43.22 | 265 | 1.25 | 0.25 | 14.5 |
| 4/21/2015 9:50:06 | 44.95 | 43.55 | 250 | 1.55 | 0.25 | 13.7 |
| 4/21/2015 9:50:15 | 45.28 | 43.88 | 101 | 1.57 | 1.12 | 5.5 |
| 4/21/2015 9:50:20 | 45.60 | 44.20 | 78 | 1.55 | 1.17 | 4.2 |
| 4/21/2015 9:50:22 | 45.93 | 44.53 | 137 | 1.54 | 1.06 | 7.5 |
| 4/21/2015 9:50:24 | 46.26 | 44.86 | 150 | 1.54 | 0.92 | 8.2 |
| 4/21/2015 9:50:27 | 46.59 | 45.19 | 166 | 1.53 | 0.90 | 9.1 |
| 4/21/2015 9:50:29 | 46.92 | 45.52 | 171 | 1.52 | 0.90 | 9.3 |
| 4/21/2015 9:50:31 | 47.24 | 45.84 | 182 | 1.49 | 0.85 | 10.0 |
| 4/21/2015 9:50:33 | 47.57 | 46.17 | 182 | 1.57 | 1.00 | 10.0 |
| 4/21/2015 9:50:36 | 47.90 | 46.50 | 127 | 1.55 | 0.97 | 6.9 |
| 4/21/2015 9:50:38 | 48.23 | 46.83 | 130 | 1.49 | 0.89 | 7.1 |
| 4/21/2015 9:50:41 | 48.56 | 47.16 | 142 | 1.53 | 1.09 | 7.7 |
| 4/21/2015 9:50:44 | 48.88 | 47.48 | 118 | 1.53 | 1.26 | 6.5 |
| 4/21/2015 9:50:46 | 49.21 | 47.81 | 165 | 1.52 | 1.01 | 9.0 |
| 4/21/2015 9:50:51 | 49.54 | 48.14 | 6 | 1.53 | 1.01 | 0.3 |
| 4/21/2015 9:50:55 | 49.87 | 48.47 | 60 | 1.58 | 0.97 | 3.3 |
| 4/21/2015 9:51:03 | 50.20 | 48.80 | 44 | 1.47 | 0.94 | 2.4 |
| 4/21/2015 9:51:05 | 50.53 | 49.13 | 157 | 1.53 | 0.99 | 8.6 |
| 4/21/2015 9:51:08 | 50.85 | 49.45 | 124 | 1.55 | 1.00 | 6.8 |
| 4/21/2015 9:51:11 | 51.18 | 49.78 | 118 | 1.57 | 1.04 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:51:14 | 51.51 | 50.11 | 110 | 1.56 | 1.03 | 6.0 |
| 4/21/2015 | 9:51:18 | 51.84 | 50.44 | 90 | 1.57 | 0.97 | 4.9 |
| 4/21/2015 | 9:51:22 | 52.17 | 50.77 | 78 | 1.57 | 0.98 | 4.3 |
| 4/21/2015 | 9:51:27 | 52.49 | 51.09 | 69 | 1.57 | 1.03 | 3.8 |
| 4/21/2015 | 9:51:32 | 52.82 | 51.42 | 71 | 1.58 | 1.02 | 3.9 |
| 4/21/2015 | 9:51:38 | 53.15 | 51.75 | 64 | 1.57 | 1.07 | 3.5 |
| 4/21/2015 | 9:51:44 | 53.48 | 52.08 | 46 | 1.58 | 1.07 | 2.5 |
| 4/21/2015 | 9:51:52 | 53.81 | 52.41 | 52 | 1.58 | 1.08 | 2.8 |
| 4/21/2015 | 9:51:58 | 54.13 | 52.73 | 67 | 1.59 | 1.13 | 3.6 |
| 4/21/2015 | 9:52:04 | 54.46 | 53.06 | 60 | 1.58 | 1.09 | 3.3 |
| 4/21/2015 | 9:52:20 | 54.79 | 53.39 | 38 | 1.58 | 0.99 | 2.1 |
| 4/21/2015 | 9:52:24 | 55.12 | 53.72 | 87 | 1.64 | 1.11 | 4.7 |
| 4/21/2015 | 9:52:30 | 55.45 | 54.05 | 46 | 1.65 | 1.27 | 2.5 |
| 4/21/2015 | 9:52:38 | 55.77 | 54.37 | 41 | 1.65 | 1.35 | 2.3 |
| 4/21/2015 | 9:52:47 | 56.10 | 54.70 | 44 | 1.65 | 1.37 | 2.4 |
| 4/21/2015 | 9:52:55 | 56.43 | 55.03 | 43 | 1.64 | 1.30 | 2.4 |
| 4/21/2015 | 9:52:56 | 56.47 | 55.07 | 45 | 1.66 | 1.27 | 2.5 |

## E125 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 9:46:00

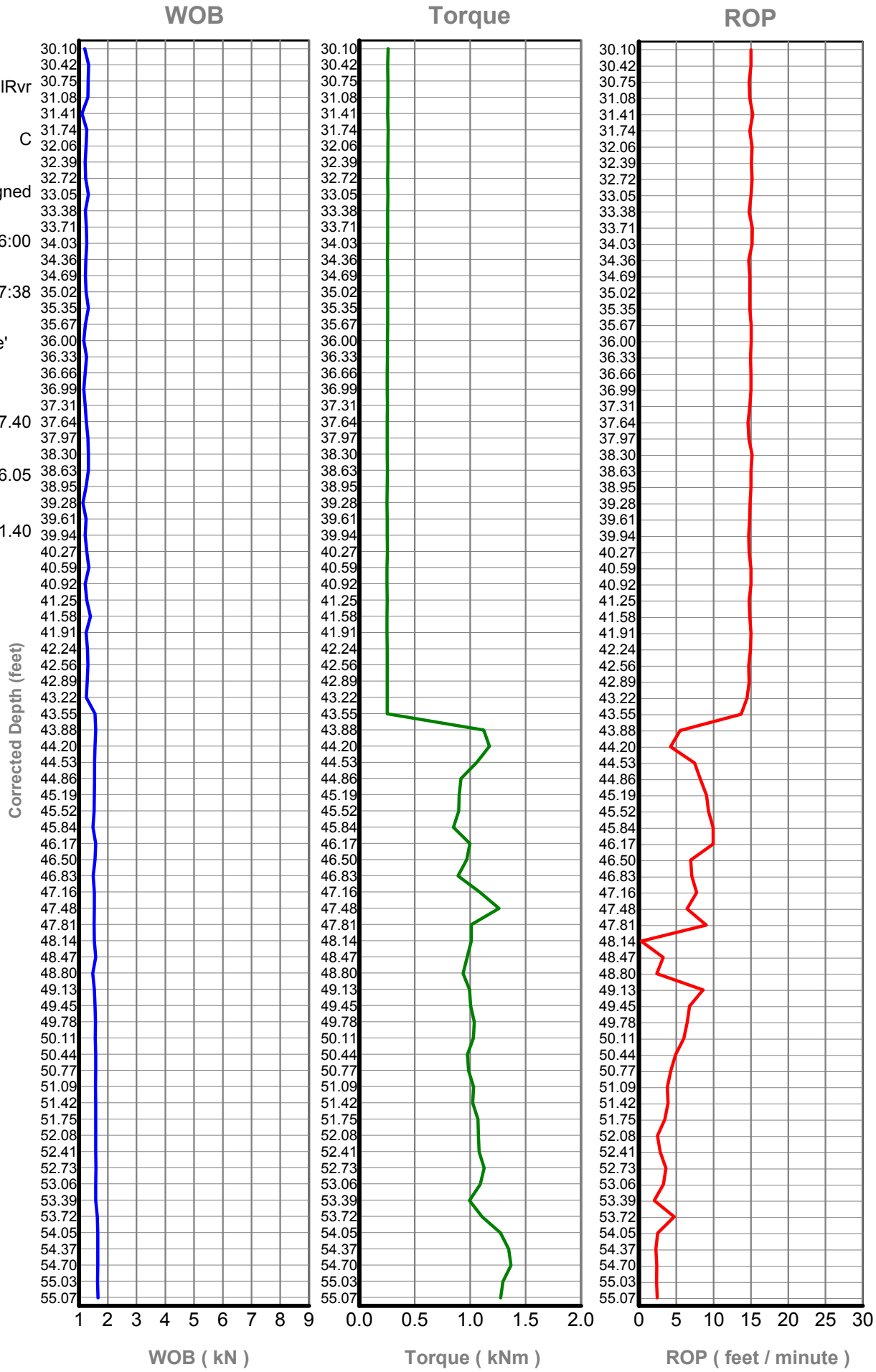
**End Date:**
4/21/2015 9:57:38

**Operator Note:**
'1.4 1.5 x Auto Complete'

**Northing:**
368,397.40

**Easting:**
253,156.05

**Tide (feet):**
1.40



## Hole: E126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 23:17:57 | 33.79 | 30.29 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 23:17:58 | 34.12 | 30.62 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:17:58 | 34.45 | 30.95 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:17:58 | 34.78 | 31.28 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:17:59 | 35.11 | 31.61 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:17:59 | 35.43 | 31.93 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:17:59 | 35.76 | 32.26 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:18:00 | 36.09 | 32.59 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:18:00 | 36.42 | 32.92 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:18:00 | 36.75 | 33.25 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:01 | 37.07 | 33.57 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:01 | 37.40 | 33.90 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:01 | 37.73 | 34.23 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:02 | 38.06 | 34.56 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:18:02 | 38.39 | 34.89 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:18:02 | 38.71 | 35.21 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:03 | 39.04 | 35.54 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:03 | 39.37 | 35.87 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:03 | 39.70 | 36.20 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:04 | 40.03 | 36.53 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:04 | 40.35 | 36.85 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:04 | 40.68 | 37.18 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:05 | 41.01 | 37.51 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:18:05 | 41.34 | 37.84 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:18:06 | 41.67 | 38.17 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:18:06 | 41.99 | 38.49 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:06 | 42.32 | 38.82 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:07 | 42.65 | 39.15 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:07 | 42.98 | 39.48 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:18:07 | 43.31 | 39.81 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:08 | 43.64 | 40.14 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:18:08 | 43.96 | 40.46 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:09 | 44.29 | 40.79 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:10 | 44.62 | 41.12 | 501 | 1.73 | 0.21 | 27.4 |
| 4/20/2015 23:18:11 | 44.95 | 41.45 | 490 | 1.73 | 0.21 | 26.8 |
| 4/20/2015 23:18:11 | 45.28 | 41.78 | 490 | 1.73 | 0.21 | 26.8 |
| 4/20/2015 23:18:11 | 45.60 | 42.10 | 493 | 1.73 | 0.21 | 26.9 |
| 4/20/2015 23:18:12 | 45.93 | 42.43 | 636 | 1.73 | 0.21 | 34.8 |
| 4/20/2015 23:18:12 | 46.26 | 42.76 | 636 | 1.73 | 0.21 | 34.8 |
| 4/20/2015 23:18:12 | 46.59 | 43.09 | 836 | 1.73 | 0.21 | 45.7 |
| 4/20/2015 23:18:13 | 46.92 | 43.42 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/20/2015 23:18:13 | 47.24 | 43.74 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/20/2015 23:18:13 | 47.57 | 44.07 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:18:14 | 47.90 | 44.40 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:18:14 | 48.23 | 44.73 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:18:14 | 48.56 | 45.06 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/20/2015 23:18:15 | 48.88 | 45.38 | 995 | 1.73 | 0.21 | 54.4 |
| 4/20/2015 23:18:15 | 49.21 | 45.71 | 995 | 1.73 | 0.21 | 54.4 |
| 4/20/2015 23:18:15 | 49.54 | 46.04 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/20/2015 23:18:16 | 49.87 | 46.37 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/20/2015 23:18:16 | 50.20 | 46.70 | 998 | 1.73 | 0.21 | 54.6 |
| 4/20/2015 23:18:33 | 50.53 | 47.03 | 18 | 1.73 | 0.21 | 1.0 |
| 4/20/2015 23:18:38 | 50.85 | 47.35 | 72 | 1.73 | 0.21 | 3.9 |
| 4/20/2015 23:18:44 | 51.18 | 47.68 | 58 | 1.73 | 0.21 | 3.2 |
| 4/20/2015 23:18:46 | 51.51 | 48.01 | 160 | 1.73 | 0.21 | 8.7 |
| 4/20/2015 23:18:48 | 51.84 | 48.34 | 186 | 1.73 | 0.21 | 10.2 |
| 4/20/2015 23:18:49 | 52.17 | 48.67 | 203 | 1.73 | 0.21 | 11.1 |
| 4/20/2015 23:18:51 | 52.49 | 48.99 | 283 | 1.73 | 0.21 | 15.5 |
| 4/20/2015 23:18:52 | 52.82 | 49.32 | 332 | 1.73 | 0.21 | 18.1 |
| 4/20/2015 23:18:53 | 53.15 | 49.65 | 322 | 1.73 | 0.21 | 17.6 |
| 4/20/2015 23:18:56 | 53.48 | 49.98 | 148 | 1.73 | 0.21 | 8.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 23:19:29 | 53.81 | 50.31 | 66 | 1.73 | 0.21 | 3.6 |
| 4/20/2015 | 23:19:33 | 54.13 | 50.63 | 81 | 1.73 | 0.21 | 4.4 |
| 4/20/2015 | 23:19:38 | 54.46 | 50.96 | 61 | 1.73 | 0.21 | 3.4 |
| 4/20/2015 | 23:19:47 | 54.79 | 51.29 | 47 | 1.73 | 0.21 | 2.5 |
| 4/20/2015 | 23:19:56 | 55.12 | 51.62 | 38 | 1.73 | 0.21 | 2.1 |
| 4/20/2015 | 23:20:03 | 55.45 | 51.95 | 52 | 1.73 | 0.21 | 2.9 |
| 4/20/2015 | 23:20:08 | 55.77 | 52.27 | 87 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 | 23:20:21 | 56.10 | 52.60 | 3 | 1.73 | 0.21 | 0.2 |
| 4/20/2015 | 23:20:25 | 56.43 | 52.93 | 70 | 1.73 | 0.21 | 3.8 |
| 4/20/2015 | 23:20:30 | 56.76 | 53.26 | 79 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 | 23:20:35 | 57.09 | 53.59 | 70 | 1.73 | 0.21 | 3.8 |
| 4/20/2015 | 23:20:40 | 57.41 | 53.91 | 73 | 1.73 | 0.21 | 4.0 |
| 4/20/2015 | 23:20:46 | 57.74 | 54.24 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 | 23:20:53 | 58.07 | 54.57 | 49 | 1.73 | 0.21 | 2.7 |
| 4/20/2015 | 23:20:58 | 58.33 | 54.83 | 58 | 1.73 | 0.21 | 3.2 |

## E126 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 23:14:42

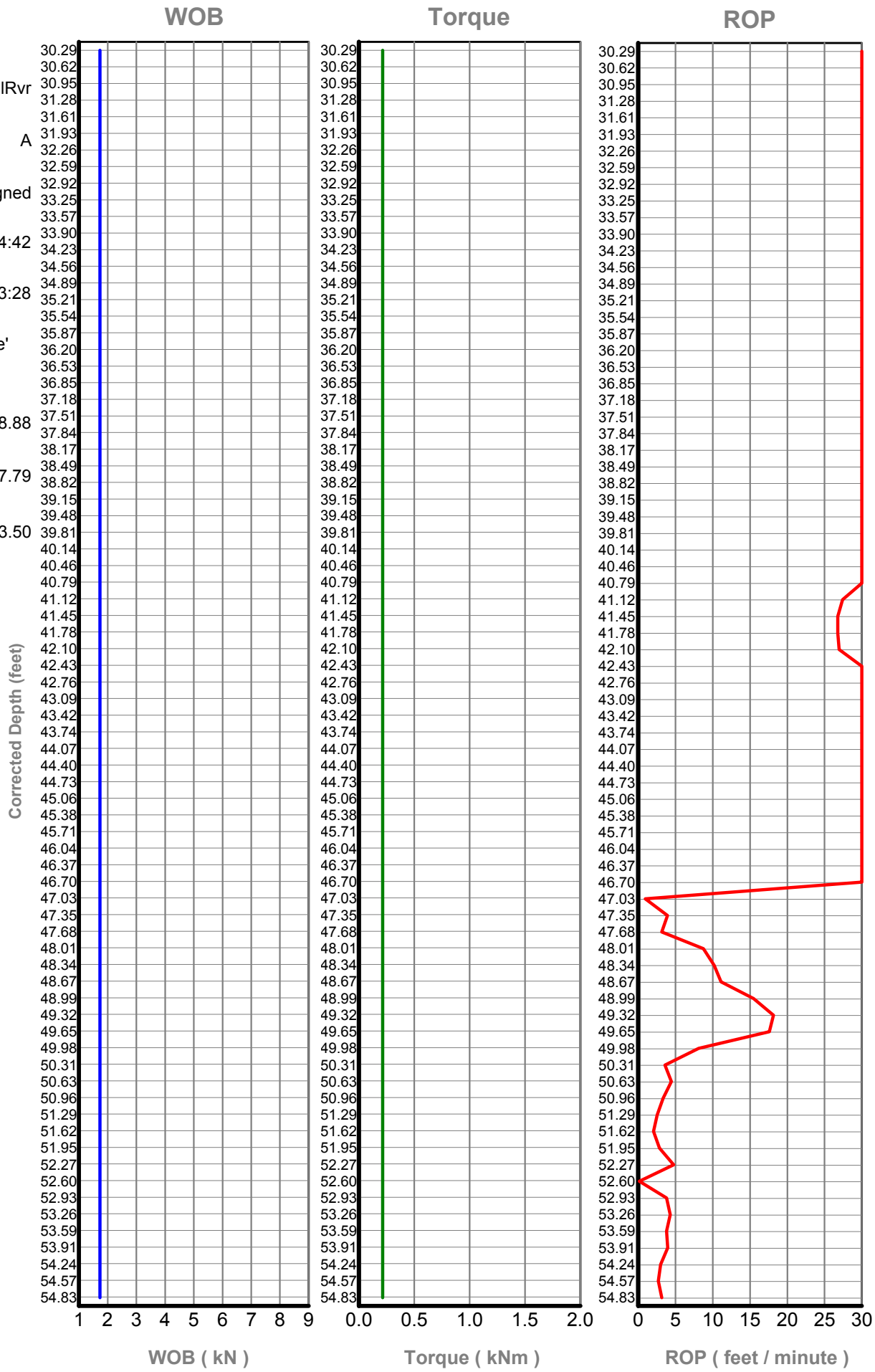
**End Date:**
4/20/2015 23:23:28

**Operator Note:**
'3.5 3.3 b Auto Complete'

**Northing:**
368,458.88

**Easting:**
253,227.79

**Tide (feet):**
3.50



## Hole: E127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 23:29:23 | 33.79 | 30.09 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/20/2015 23:29:23 | 34.12 | 30.42 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:23 | 34.45 | 30.75 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 23:29:24 | 34.78 | 31.08 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 23:29:24 | 35.11 | 31.41 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 23:29:24 | 35.43 | 31.73 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/20/2015 23:29:25 | 35.76 | 32.06 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/20/2015 23:29:25 | 36.09 | 32.39 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 23:29:25 | 36.42 | 32.72 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 23:29:26 | 36.75 | 33.05 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 23:29:26 | 37.07 | 33.37 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:29:26 | 37.40 | 33.70 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:27 | 37.73 | 34.03 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:29:28 | 38.06 | 34.36 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:29:28 | 38.39 | 34.69 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:28 | 38.71 | 35.01 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:29:29 | 39.04 | 35.34 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:29:29 | 39.37 | 35.67 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:29 | 39.70 | 36.00 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:29:30 | 40.03 | 36.33 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:29:30 | 40.35 | 36.65 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:29:30 | 40.68 | 36.98 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:29:31 | 41.01 | 37.31 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:29:31 | 41.34 | 37.64 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 23:29:31 | 41.67 | 37.97 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:32 | 41.99 | 38.29 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:32 | 42.32 | 38.62 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:29:32 | 42.65 | 38.95 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:33 | 42.98 | 39.28 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:33 | 43.31 | 39.61 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 23:29:33 | 43.64 | 39.94 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:34 | 43.96 | 40.26 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:34 | 44.29 | 40.59 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:34 | 44.62 | 40.92 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:29:35 | 44.95 | 41.25 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 23:29:35 | 45.28 | 41.58 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:35 | 45.60 | 41.90 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:36 | 45.93 | 42.23 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:36 | 46.26 | 42.56 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 23:29:36 | 46.59 | 42.89 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:29:37 | 46.92 | 43.22 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:29:37 | 47.24 | 43.54 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/20/2015 23:29:37 | 47.57 | 43.87 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:29:38 | 47.90 | 44.20 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:29:39 | 48.23 | 44.53 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:29:39 | 48.56 | 44.86 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 23:29:39 | 48.88 | 45.18 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:40 | 49.21 | 45.51 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 23:29:40 | 49.54 | 45.84 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 23:29:40 | 49.87 | 46.17 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 23:30:02 | 50.20 | 46.50 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 23:30:07 | 50.53 | 46.83 | 52 | 1.73 | 0.21 | 2.9 |
| 4/20/2015 23:30:16 | 50.85 | 47.15 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 23:30:19 | 51.18 | 47.48 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 23:30:22 | 51.51 | 47.81 | 120 | 1.73 | 0.21 | 6.5 |
| 4/20/2015 23:30:25 | 51.84 | 48.14 | 103 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 23:30:28 | 52.17 | 48.47 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 23:30:32 | 52.49 | 48.79 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 23:30:35 | 52.82 | 49.12 | 108 | 1.73 | 0.21 | 5.9 |
| 4/20/2015 23:30:39 | 53.15 | 49.45 | 102 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 23:30:42 | 53.48 | 49.78 | 92 | 1.73 | 0.21 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 23:30:46 | 53.81 | 50.11 | 99 | 1.73 | 0.21 | 5.4 |
| 4/20/2015 | 23:30:50 | 54.13 | 50.43 | 90 | 1.73 | 0.21 | 4.9 |
| 4/20/2015 | 23:30:53 | 54.46 | 50.76 | 96 | 1.73 | 0.21 | 5.2 |
| 4/20/2015 | 23:31:06 | 54.79 | 51.09 | 102 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 | 23:31:08 | 55.12 | 51.42 | 131 | 1.73 | 0.21 | 7.2 |
| 4/20/2015 | 23:31:11 | 55.45 | 51.75 | 145 | 1.73 | 0.21 | 7.9 |
| 4/20/2015 | 23:31:14 | 55.77 | 52.07 | 116 | 1.73 | 0.21 | 6.4 |
| 4/20/2015 | 23:31:17 | 56.10 | 52.40 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 | 23:31:20 | 56.43 | 52.73 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 | 23:31:24 | 56.76 | 53.06 | 105 | 1.73 | 0.21 | 5.7 |
| 4/20/2015 | 23:31:28 | 57.09 | 53.39 | 78 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 | 23:31:33 | 57.41 | 53.71 | 80 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 | 23:31:38 | 57.74 | 54.04 | 78 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 | 23:31:42 | 58.07 | 54.37 | 79 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 | 23:31:48 | 58.40 | 54.70 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 | 23:31:53 | 58.73 | 55.03 | 70 | 1.73 | 0.21 | 3.8 |

## E127 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 23:26:58

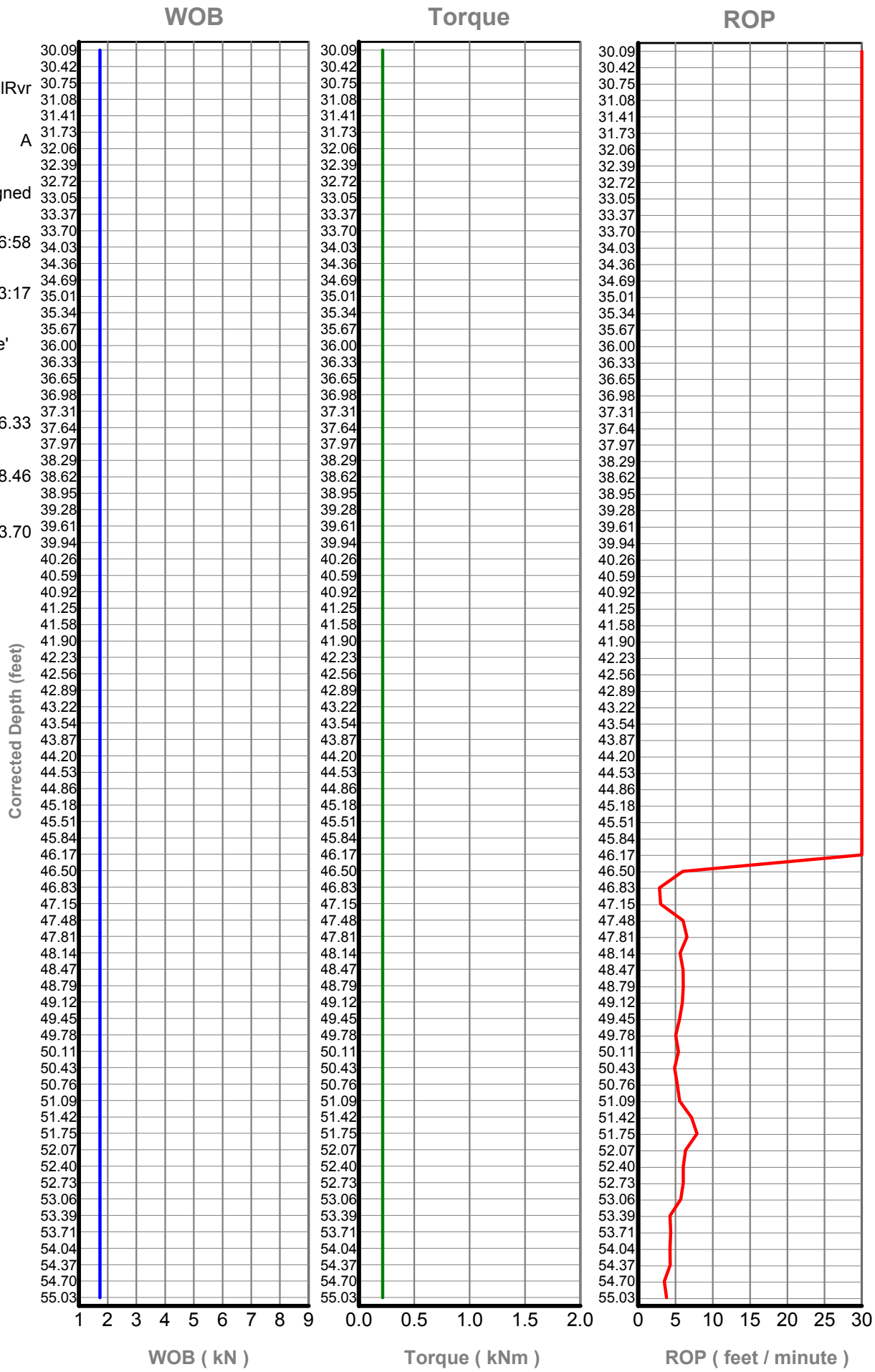
**End Date:**
4/20/2015 23:33:17

**Operator Note:**
'3.7 3.7 b Auto Complete'

**Northing:**
368,496.33

**Easting:**
253,278.46

**Tide (feet):**
3.70



## Hole: E128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 23:16:52 | 33.79 | 30.29 | 275 | 1.51 | 0.14 | 15.0 |
| 4/20/2015 23:16:53 | 34.12 | 30.62 | 275 | 1.53 | 0.14 | 15.0 |
| 4/20/2015 23:16:54 | 34.45 | 30.95 | 276 | 1.52 | 0.14 | 15.1 |
| 4/20/2015 23:16:55 | 34.78 | 31.28 | 275 | 1.52 | 0.14 | 15.0 |
| 4/20/2015 23:16:57 | 35.11 | 31.61 | 275 | 1.53 | 0.14 | 15.0 |
| 4/20/2015 23:16:58 | 35.43 | 31.93 | 275 | 1.53 | 0.14 | 15.0 |
| 4/20/2015 23:17:00 | 35.76 | 32.26 | 272 | 1.53 | 0.14 | 14.9 |
| 4/20/2015 23:17:01 | 36.09 | 32.59 | 269 | 1.53 | 0.14 | 14.7 |
| 4/20/2015 23:17:02 | 36.42 | 32.92 | 269 | 1.53 | 0.14 | 14.7 |
| 4/20/2015 23:17:04 | 36.75 | 33.25 | 269 | 1.52 | 0.14 | 14.7 |
| 4/20/2015 23:17:05 | 37.07 | 33.57 | 269 | 1.53 | 0.14 | 14.7 |
| 4/20/2015 23:17:06 | 37.40 | 33.90 | 263 | 1.52 | 0.14 | 14.4 |
| 4/20/2015 23:17:07 | 37.73 | 34.23 | 269 | 1.51 | 0.14 | 14.7 |
| 4/20/2015 23:17:09 | 38.06 | 34.56 | 266 | 1.52 | 0.14 | 14.5 |
| 4/20/2015 23:17:10 | 38.39 | 34.89 | 269 | 1.53 | 0.14 | 14.7 |
| 4/20/2015 23:17:12 | 38.71 | 35.21 | 266 | 1.53 | 0.14 | 14.5 |
| 4/20/2015 23:17:13 | 39.04 | 35.54 | 267 | 1.53 | 0.14 | 14.6 |
| 4/20/2015 23:17:14 | 39.37 | 35.87 | 266 | 1.53 | 0.14 | 14.6 |
| 4/20/2015 23:17:16 | 39.70 | 36.20 | 266 | 1.51 | 0.14 | 14.5 |
| 4/20/2015 23:17:17 | 40.03 | 36.53 | 266 | 1.52 | 0.14 | 14.5 |
| 4/20/2015 23:17:18 | 40.35 | 36.85 | 267 | 1.53 | 0.14 | 14.6 |
| 4/20/2015 23:17:19 | 40.68 | 37.18 | 266 | 1.53 | 0.14 | 14.5 |
| 4/20/2015 23:17:21 | 41.01 | 37.51 | 259 | 1.51 | 0.14 | 14.2 |
| 4/20/2015 23:17:23 | 41.34 | 37.84 | 260 | 1.53 | 0.14 | 14.2 |
| 4/20/2015 23:17:24 | 41.67 | 38.17 | 261 | 1.55 | 0.14 | 14.3 |
| 4/20/2015 23:17:25 | 41.99 | 38.49 | 261 | 1.53 | 0.14 | 14.3 |
| 4/20/2015 23:17:27 | 42.32 | 38.82 | 263 | 1.53 | 0.14 | 14.4 |
| 4/20/2015 23:17:28 | 42.65 | 39.15 | 257 | 1.53 | 0.14 | 14.1 |
| 4/20/2015 23:17:29 | 42.98 | 39.48 | 254 | 1.53 | 0.14 | 13.9 |
| 4/20/2015 23:17:31 | 43.31 | 39.81 | 257 | 1.53 | 0.14 | 14.0 |
| 4/20/2015 23:17:32 | 43.64 | 40.14 | 253 | 1.53 | 0.14 | 13.8 |
| 4/20/2015 23:17:34 | 43.96 | 40.46 | 256 | 1.53 | 0.14 | 14.0 |
| 4/20/2015 23:17:35 | 44.29 | 40.79 | 256 | 1.53 | 0.14 | 14.0 |
| 4/20/2015 23:17:36 | 44.62 | 41.12 | 256 | 1.53 | 0.14 | 14.0 |
| 4/20/2015 23:17:38 | 44.95 | 41.45 | 261 | 1.54 | 0.14 | 14.3 |
| 4/20/2015 23:17:39 | 45.28 | 41.78 | 270 | 1.52 | 0.14 | 14.8 |
| 4/20/2015 23:17:40 | 45.60 | 42.10 | 271 | 1.53 | 0.14 | 14.8 |
| 4/20/2015 23:17:42 | 45.93 | 42.43 | 273 | 1.53 | 0.14 | 14.9 |
| 4/20/2015 23:17:43 | 46.26 | 42.76 | 260 | 1.54 | 0.14 | 14.2 |
| 4/20/2015 23:17:44 | 46.59 | 43.09 | 260 | 1.51 | 0.14 | 14.2 |
| 4/20/2015 23:17:46 | 46.92 | 43.42 | 266 | 1.55 | 0.14 | 14.6 |
| 4/20/2015 23:18:19 | 47.24 | 43.74 | 54 | 1.60 | 1.11 | 3.0 |
| 4/20/2015 23:18:28 | 47.57 | 44.07 | 0 | 1.59 | 1.14 | 0.0 |
| 4/20/2015 23:18:31 | 47.90 | 44.40 | 106 | 1.64 | 1.10 | 5.8 |
| 4/20/2015 23:18:40 | 48.23 | 44.73 | 36 | 1.66 | 1.15 | 2.0 |
| 4/20/2015 23:18:42 | 48.56 | 45.06 | 132 | 1.64 | 1.25 | 7.2 |
| 4/20/2015 23:19:06 | 48.88 | 45.38 | 92 | 1.64 | 1.17 | 5.0 |
| 4/20/2015 23:20:19 | 49.21 | 45.71 | 19 | 1.64 | 1.09 | 1.1 |
| 4/20/2015 23:20:22 | 49.54 | 46.04 | 141 | 1.62 | 1.10 | 7.7 |
| 4/20/2015 23:20:36 | 49.87 | 46.37 | 47 | 1.66 | 1.31 | 2.5 |
| 4/20/2015 23:20:39 | 50.20 | 46.70 | 149 | 1.63 | 1.10 | 8.2 |
| 4/20/2015 23:21:01 | 50.53 | 47.03 | 40 | 1.68 | 1.31 | 2.2 |
| 4/20/2015 23:21:03 | 50.85 | 47.35 | 133 | 1.68 | 1.11 | 7.3 |
| 4/20/2015 23:21:37 | 51.18 | 47.68 | 85 | 1.69 | 1.25 | 4.6 |
| 4/20/2015 23:21:43 | 51.51 | 48.01 | 58 | 1.69 | 1.18 | 3.2 |
| 4/20/2015 23:21:49 | 51.84 | 48.34 | 66 | 1.71 | 1.20 | 3.6 |
| 4/20/2015 23:21:55 | 52.17 | 48.67 | 52 | 1.71 | 1.10 | 2.9 |
| 4/20/2015 23:22:01 | 52.49 | 48.99 | 58 | 1.70 | 1.15 | 3.2 |
| 4/20/2015 23:22:06 | 52.79 | 49.29 | 81 | 1.61 | 1.12 | 4.4 |

## E128 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 23:14:06

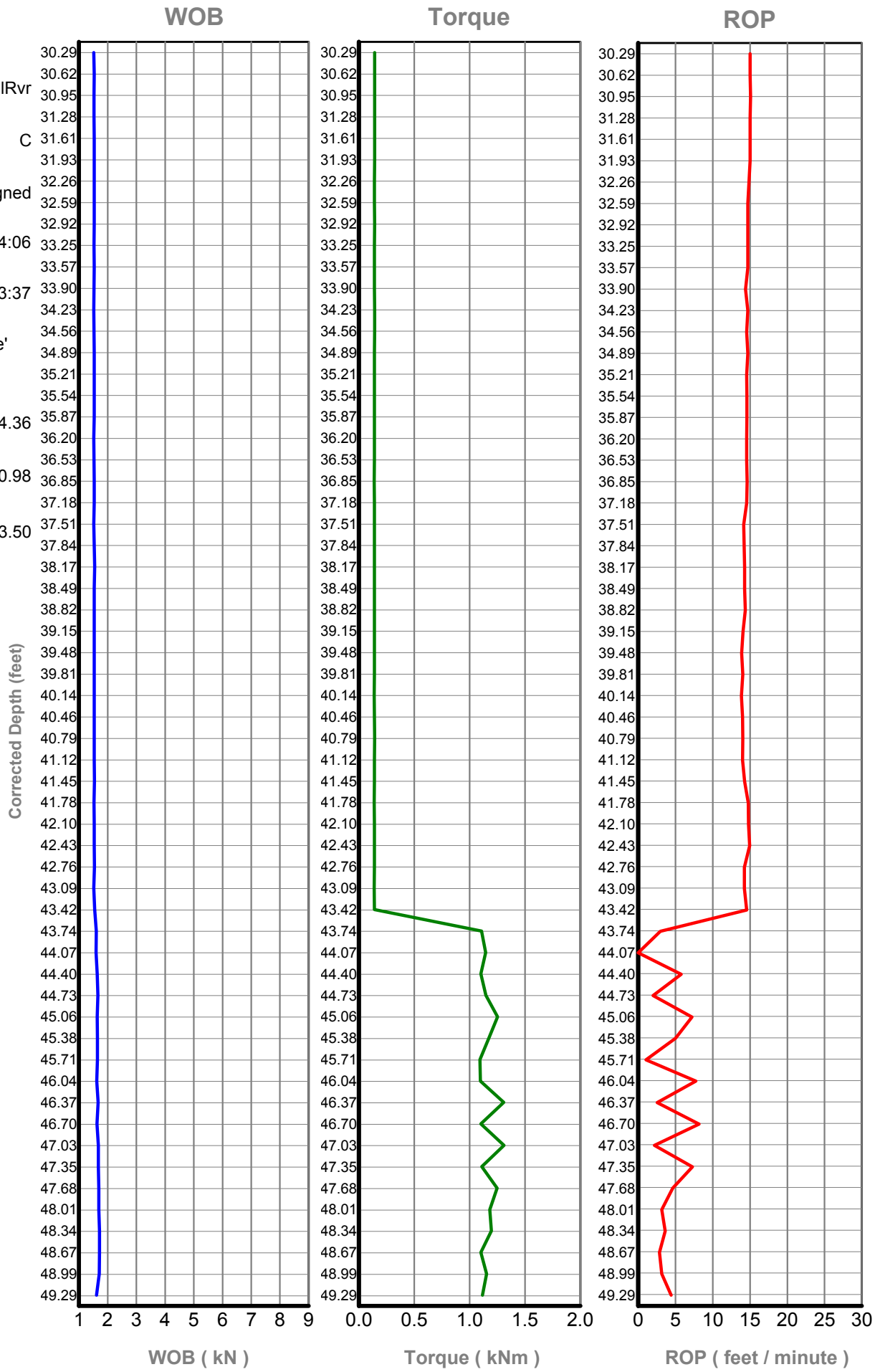
**End Date:**
4/20/2015 23:23:37

**Operator Note:**
'3.5 3.3 c Auto Complete'

**Northing:**
368,544.36

**Easting:**
253,330.98

**Tide (feet):**
3.50



## Hole: E129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:17:01 | 35.11 | 30.31 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:01 | 35.43 | 30.63 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:01 | 35.76 | 30.96 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/20/2015 17:17:02 | 36.09 | 31.29 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 17:17:02 | 36.42 | 31.62 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 17:17:02 | 36.75 | 31.95 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:17:03 | 37.07 | 32.27 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/20/2015 17:17:03 | 37.40 | 32.60 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/20/2015 17:17:03 | 37.73 | 32.93 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/20/2015 17:17:04 | 38.06 | 33.26 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/20/2015 17:17:04 | 38.39 | 33.59 | 1,092 | 0.27 | 0.32 | 59.7 |
| 4/20/2015 17:17:04 | 38.71 | 33.91 | 1,102 | 0.27 | 0.32 | 60.3 |
| 4/20/2015 17:17:05 | 39.04 | 34.24 | 1,102 | 0.27 | 0.32 | 60.3 |
| 4/20/2015 17:17:05 | 39.37 | 34.57 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/20/2015 17:17:05 | 39.70 | 34.90 | 1,099 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 17:17:06 | 40.03 | 35.23 | 1,099 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 17:17:06 | 40.35 | 35.55 | 1,092 | 0.27 | 0.31 | 59.7 |
| 4/20/2015 17:17:06 | 40.68 | 35.88 | 1,092 | 0.27 | 0.31 | 59.7 |
| 4/20/2015 17:17:06 | 41.01 | 36.21 | 1,108 | 0.27 | 0.31 | 60.6 |
| 4/20/2015 17:17:07 | 41.34 | 36.54 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:07 | 41.67 | 36.87 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:07 | 41.99 | 37.19 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 17:17:08 | 42.32 | 37.52 | 1,096 | 0.27 | 0.41 | 59.9 |
| 4/20/2015 17:17:08 | 42.65 | 37.85 | 1,096 | 0.27 | 0.41 | 59.9 |
| 4/20/2015 17:17:08 | 42.98 | 38.18 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:09 | 43.31 | 38.51 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 17:17:09 | 43.64 | 38.84 | 1,093 | 0.27 | 0.32 | 59.8 |
| 4/20/2015 17:17:09 | 43.96 | 39.16 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/20/2015 17:17:10 | 44.29 | 39.49 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/20/2015 17:17:10 | 44.62 | 39.82 | 1,086 | 0.27 | 0.32 | 59.4 |
| 4/20/2015 17:17:11 | 44.95 | 40.15 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 17:17:11 | 45.28 | 40.48 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 17:17:11 | 45.60 | 40.80 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 17:17:12 | 45.93 | 41.13 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 17:17:12 | 46.26 | 41.46 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 17:17:12 | 46.59 | 41.79 | 1,090 | 0.27 | 0.31 | 59.6 |
| 4/20/2015 17:17:13 | 46.92 | 42.12 | 1,090 | 0.27 | 0.31 | 59.6 |
| 4/20/2015 17:17:13 | 47.24 | 42.44 | 1,093 | 0.27 | 0.31 | 59.7 |
| 4/20/2015 17:17:13 | 47.57 | 42.77 | 1,090 | 0.26 | 0.34 | 59.6 |
| 4/20/2015 17:17:14 | 47.90 | 43.10 | 1,090 | 0.26 | 0.34 | 59.6 |
| 4/20/2015 17:17:21 | 48.23 | 43.43 | 0 | 3.47 | 0.36 | 0.0 |
| 4/20/2015 17:17:22 | 48.56 | 43.76 | 166 | 2.37 | 0.33 | 9.1 |
| 4/20/2015 17:17:22 | 48.88 | 44.08 | 334 | 3.37 | 0.37 | 18.2 |
| 4/20/2015 17:17:23 | 49.21 | 44.41 | 442 | 2.78 | 0.37 | 24.2 |
| 4/20/2015 17:17:24 | 49.54 | 44.74 | 440 | 3.43 | 0.39 | 24.1 |
| 4/20/2015 17:17:26 | 49.87 | 45.07 | 169 | 5.97 | 0.41 | 9.2 |
| 4/20/2015 17:17:27 | 50.20 | 45.40 | 191 | 2.88 | 0.38 | 10.4 |
| 4/20/2015 17:17:33 | 50.53 | 45.73 | 0 | 3.32 | 0.40 | 0.0 |
| 4/20/2015 17:17:35 | 50.85 | 46.05 | 125 | 3.59 | 0.38 | 6.8 |
| 4/20/2015 17:17:37 | 51.18 | 46.38 | 146 | 3.90 | 0.40 | 8.0 |
| 4/20/2015 17:17:43 | 51.51 | 46.71 | 60 | 4.03 | 0.40 | 3.3 |
| 4/20/2015 17:17:50 | 51.84 | 47.04 | 32 | 5.03 | 0.39 | 1.7 |
| 4/20/2015 17:17:54 | 52.17 | 47.37 | 116 | 4.39 | 0.40 | 6.3 |
| 4/20/2015 17:17:58 | 52.49 | 47.69 | 78 | 4.57 | 0.39 | 4.3 |
| 4/20/2015 17:18:03 | 52.82 | 48.02 | 75 | 3.49 | 0.40 | 4.1 |
| 4/20/2015 17:18:08 | 53.15 | 48.35 | 66 | 3.99 | 0.40 | 3.6 |
| 4/20/2015 17:18:12 | 53.48 | 48.68 | 89 | 3.47 | 0.40 | 4.9 |
| 4/20/2015 17:18:18 | 53.81 | 49.01 | 58 | 2.71 | 0.39 | 3.2 |
| 4/20/2015 17:18:25 | 54.13 | 49.33 | 55 | 3.60 | 0.40 | 3.0 |
| 4/20/2015 17:18:31 | 54.46 | 49.66 | 56 | 3.33 | 0.40 | 3.1 |
| 4/20/2015 17:18:37 | 54.79 | 49.99 | 58 | 3.71 | 0.40 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 17:18:43 | 55.12 | 50.32 | 55 | 3.80 | 0.39 | 3.0 |
| 4/20/2015 | 17:18:49 | 55.42 | 50.62 | 61 | 3.43 | 0.40 | 3.3 |

## E129 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 17:16:07

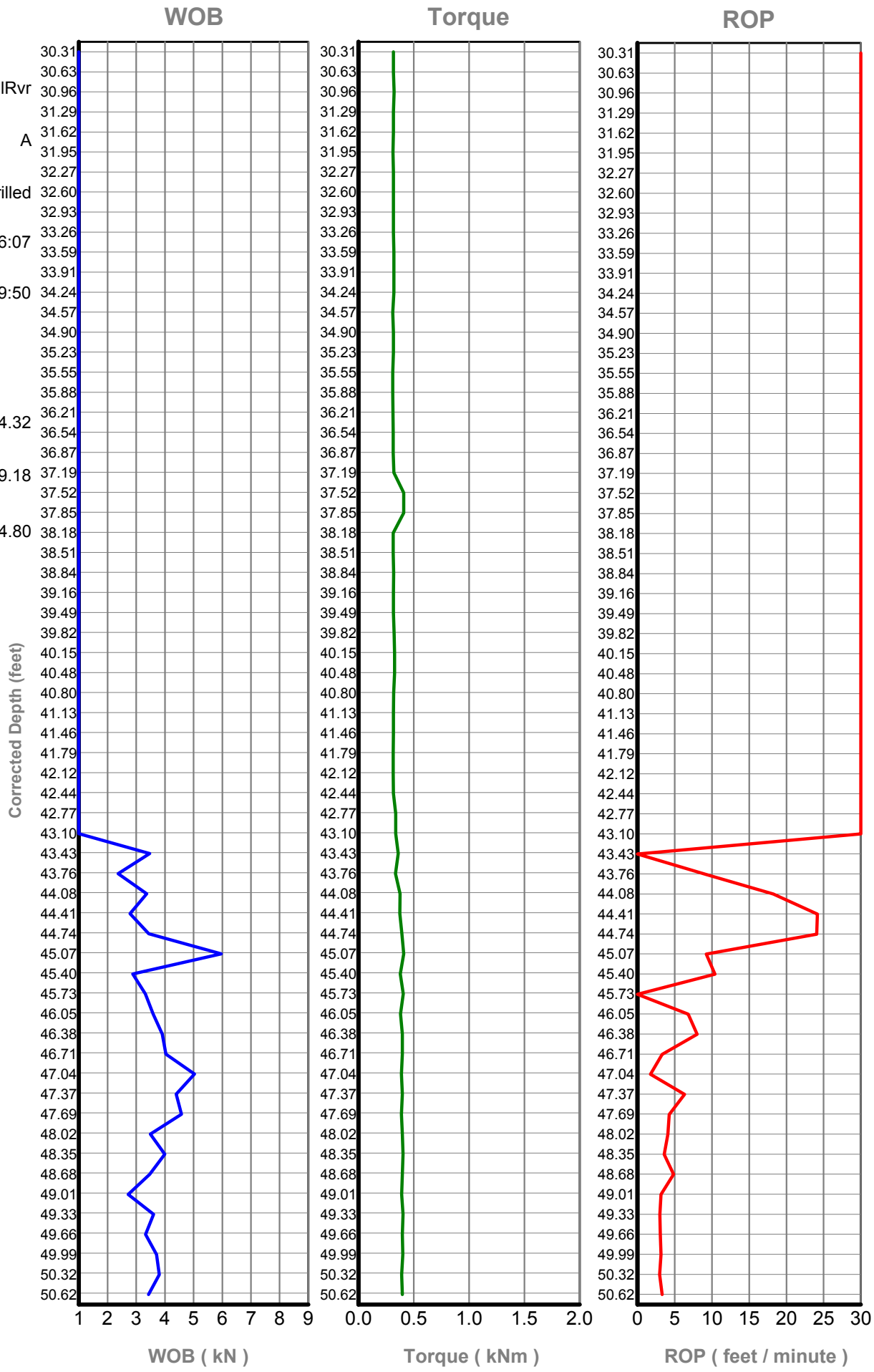
**End Date:**
4/20/2015 17:19:50

**Operator Note:**
'4.8 5.0 b Rock'

**Northing:**
368,594.32

**Easting:**
253,399.18

**Tide (feet):**
4.80



## Hole: E129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:24:46 | 35.11 | 30.31 | 1,055 | 0.28 | 0.31 | 57.7 |
| 4/20/2015 17:24:47 | 35.43 | 30.63 | 1,055 | 0.28 | 0.31 | 57.7 |
| 4/20/2015 17:24:47 | 35.76 | 30.96 | 1,066 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:47 | 36.09 | 31.29 | 1,054 | 0.26 | 0.31 | 57.6 |
| 4/20/2015 17:24:48 | 36.42 | 31.62 | 1,054 | 0.26 | 0.31 | 57.6 |
| 4/20/2015 17:24:48 | 36.75 | 31.95 | 1,056 | 0.28 | 0.32 | 57.8 |
| 4/20/2015 17:24:49 | 37.07 | 32.27 | 1,056 | 0.28 | 0.31 | 57.8 |
| 4/20/2015 17:24:49 | 37.40 | 32.60 | 1,056 | 0.28 | 0.31 | 57.8 |
| 4/20/2015 17:24:49 | 37.73 | 32.93 | 1,071 | 0.28 | 0.32 | 58.6 |
| 4/20/2015 17:24:50 | 38.06 | 33.26 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:50 | 38.39 | 33.59 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:50 | 38.71 | 33.91 | 1,070 | 0.28 | 0.32 | 58.5 |
| 4/20/2015 17:24:51 | 39.04 | 34.24 | 1,070 | 0.27 | 0.31 | 58.5 |
| 4/20/2015 17:24:51 | 39.37 | 34.57 | 1,070 | 0.27 | 0.31 | 58.5 |
| 4/20/2015 17:24:51 | 39.70 | 34.90 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:52 | 40.03 | 35.23 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:52 | 40.35 | 35.55 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:52 | 40.68 | 35.88 | 1,058 | 0.28 | 0.31 | 57.8 |
| 4/20/2015 17:24:53 | 41.01 | 36.21 | 1,058 | 0.28 | 0.31 | 57.8 |
| 4/20/2015 17:24:53 | 41.34 | 36.54 | 1,057 | 0.28 | 0.32 | 57.8 |
| 4/20/2015 17:24:53 | 41.67 | 36.87 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/20/2015 17:24:54 | 41.99 | 37.19 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/20/2015 17:24:54 | 42.32 | 37.52 | 1,061 | 0.28 | 0.32 | 58.0 |
| 4/20/2015 17:24:54 | 42.65 | 37.85 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/20/2015 17:24:55 | 42.98 | 38.18 | 1,064 | 0.28 | 0.32 | 58.2 |
| 4/20/2015 17:24:55 | 43.31 | 38.51 | 1,067 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 17:24:55 | 43.64 | 38.84 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 17:24:56 | 43.96 | 39.16 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 17:24:56 | 44.29 | 39.49 | 1,064 | 0.27 | 0.31 | 58.2 |
| 4/20/2015 17:24:56 | 44.62 | 39.82 | 1,060 | 0.41 | 0.32 | 58.0 |
| 4/20/2015 17:24:57 | 44.95 | 40.15 | 1,060 | 0.41 | 0.32 | 58.0 |
| 4/20/2015 17:24:57 | 45.28 | 40.48 | 1,064 | 0.56 | 0.32 | 58.2 |
| 4/20/2015 17:25:27 | 45.60 | 40.80 | 0 | 0.25 | 0.35 | 0.0 |
| 4/20/2015 17:25:31 | 45.93 | 41.13 | 38 | 0.28 | 0.31 | 2.1 |
| 4/20/2015 17:25:31 | 46.26 | 41.46 | 247 | 0.28 | 0.31 | 13.5 |
| 4/20/2015 17:25:32 | 46.59 | 41.79 | 247 | 0.28 | 0.31 | 13.5 |
| 4/20/2015 17:25:32 | 46.92 | 42.12 | 462 | 0.28 | 0.31 | 25.3 |
| 4/20/2015 17:25:32 | 47.24 | 42.44 | 670 | 0.28 | 0.32 | 36.6 |
| 4/20/2015 17:25:33 | 47.57 | 42.77 | 670 | 0.28 | 0.32 | 36.6 |
| 4/20/2015 17:25:33 | 47.90 | 43.10 | 870 | 0.28 | 0.35 | 47.6 |
| 4/20/2015 17:25:33 | 47.96 | 43.16 | 870 | 0.28 | 0.35 | 47.6 |

## E129 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 17:21:12

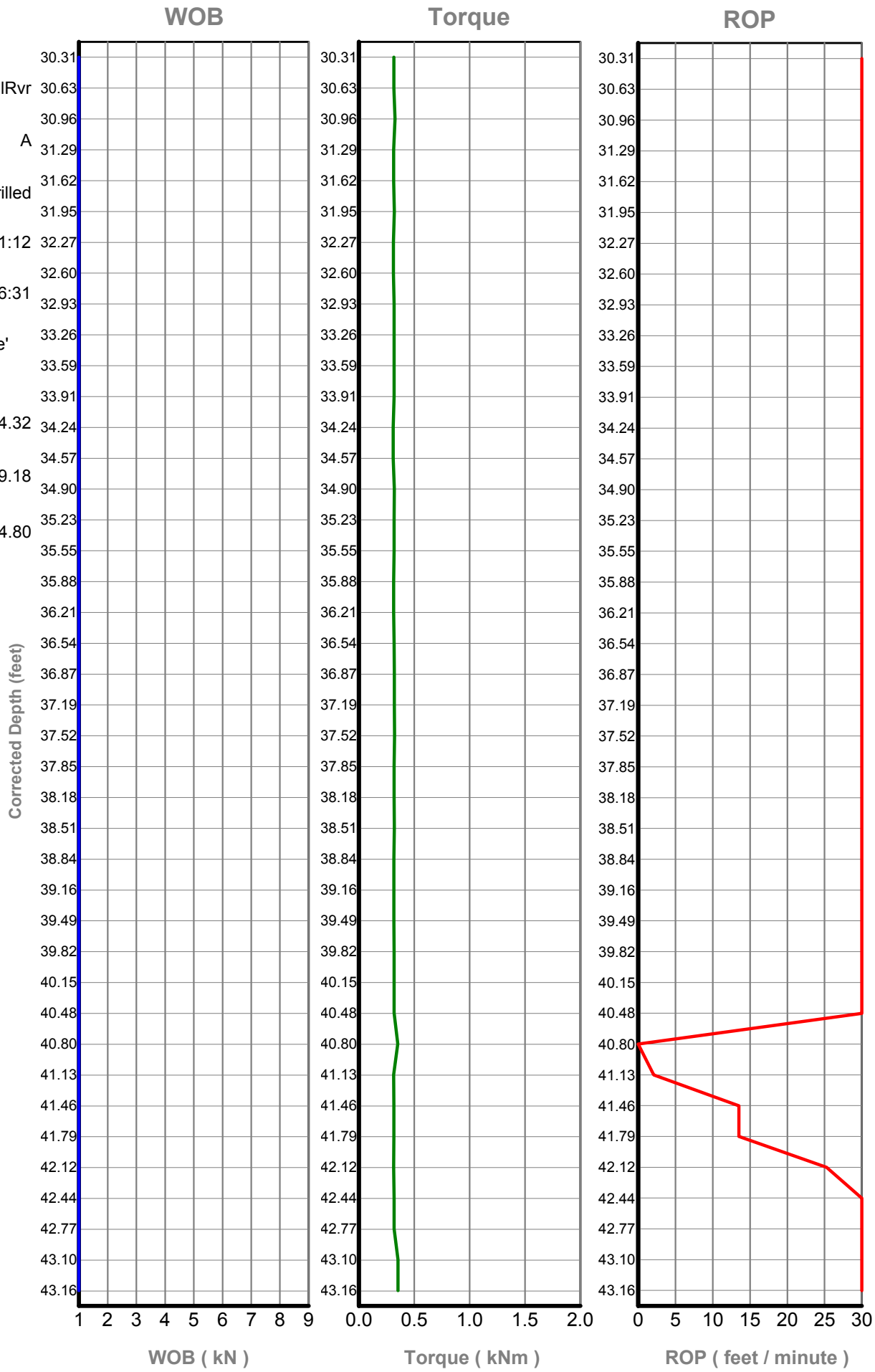
**End Date:**
4/20/2015 17:26:31

**Operator Note:**
'4.8 5.0 b Auto Complete'

**Northing:**
368,594.32

**Easting:**
253,399.18

**Tide (feet):**
4.80



## Hole: E13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:45:15 | 37.73 | 30.13 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 2:45:15 | 38.06 | 30.46 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 2:45:15 | 38.39 | 30.79 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:45:16 | 38.71 | 31.11 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:45:16 | 39.04 | 31.44 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 2:45:16 | 39.37 | 31.77 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 2:45:17 | 39.70 | 32.10 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 2:45:17 | 40.03 | 32.43 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:17 | 40.35 | 32.75 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 2:45:18 | 40.68 | 33.08 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 2:45:18 | 41.01 | 33.41 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 2:45:19 | 41.34 | 33.74 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 2:45:19 | 41.67 | 34.07 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 2:45:19 | 41.99 | 34.39 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 2:45:20 | 42.32 | 34.72 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:20 | 42.65 | 35.05 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:20 | 42.98 | 35.38 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:21 | 43.31 | 35.71 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:21 | 43.64 | 36.04 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:21 | 43.96 | 36.36 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:22 | 44.29 | 36.69 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:22 | 44.62 | 37.02 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:22 | 44.95 | 37.35 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:45:23 | 45.28 | 37.68 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:45:23 | 45.60 | 38.00 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 2:45:23 | 45.93 | 38.33 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:24 | 46.26 | 38.66 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:24 | 46.59 | 38.99 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:45:24 | 46.92 | 39.32 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 2:45:25 | 47.24 | 39.64 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 2:45:25 | 47.57 | 39.97 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:25 | 47.90 | 40.30 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 2:45:26 | 48.23 | 40.63 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 2:45:26 | 48.56 | 40.96 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:45:26 | 48.88 | 41.28 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 2:45:27 | 49.21 | 41.61 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 2:45:27 | 49.54 | 41.94 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 2:45:57 | 49.87 | 42.27 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 2:46:04 | 50.20 | 42.60 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 2:46:06 | 50.53 | 42.93 | 107 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 2:46:07 | 50.85 | 43.25 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 2:46:24 | 51.18 | 43.58 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 2:46:32 | 51.51 | 43.91 | 47 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 2:46:36 | 51.84 | 44.24 | 41 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 2:46:37 | 52.17 | 44.57 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 2:46:38 | 52.49 | 44.89 | 219 | 1.73 | 0.21 | 12.0 |
| 4/21/2015 2:46:44 | 52.82 | 45.22 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 2:46:45 | 53.15 | 45.55 | 199 | 1.73 | 0.21 | 10.9 |
| 4/21/2015 2:46:46 | 53.48 | 45.88 | 264 | 1.73 | 0.21 | 14.4 |
| 4/21/2015 2:46:48 | 53.81 | 46.21 | 327 | 1.73 | 0.21 | 17.9 |
| 4/21/2015 2:46:51 | 54.13 | 46.53 | 131 | 1.73 | 0.21 | 7.2 |
| 4/21/2015 2:46:59 | 54.46 | 46.86 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 2:47:37 | 54.79 | 47.19 | 52 | 1.73 | 0.21 | 2.8 |
| 4/21/2015 2:47:54 | 55.12 | 47.52 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 2:47:58 | 55.45 | 47.85 | 113 | 1.73 | 0.21 | 6.2 |
| 4/21/2015 2:47:58 | 55.77 | 48.17 | 190 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 2:47:59 | 56.10 | 48.50 | 390 | 1.73 | 0.21 | 21.3 |
| 4/21/2015 2:48:00 | 56.43 | 48.83 | 449 | 1.73 | 0.21 | 24.5 |
| 4/21/2015 2:48:00 | 56.76 | 49.16 | 474 | 1.73 | 0.21 | 25.9 |
| 4/21/2015 2:48:01 | 57.09 | 49.49 | 474 | 1.73 | 0.21 | 25.9 |
| 4/21/2015 2:48:02 | 57.41 | 49.81 | 425 | 1.73 | 0.21 | 23.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 2:48:04 | 57.74 | 50.14 | 357 | 1.73 | 0.21 | 19.5 |
| 4/21/2015 | 2:48:05 | 58.07 | 50.47 | 326 | 1.73 | 0.21 | 17.8 |
| 4/21/2015 | 2:48:06 | 58.40 | 50.80 | 320 | 1.73 | 0.21 | 17.5 |
| 4/21/2015 | 2:48:07 | 58.73 | 51.13 | 314 | 1.73 | 0.21 | 17.2 |
| 4/21/2015 | 2:48:08 | 59.06 | 51.46 | 295 | 1.73 | 0.21 | 16.1 |
| 4/21/2015 | 2:48:10 | 59.38 | 51.78 | 250 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 | 2:48:12 | 59.71 | 52.11 | 201 | 1.73 | 0.21 | 11.0 |
| 4/21/2015 | 2:48:13 | 60.04 | 52.44 | 201 | 1.73 | 0.21 | 11.0 |
| 4/21/2015 | 2:48:16 | 60.37 | 52.77 | 200 | 1.73 | 0.21 | 10.9 |
| 4/21/2015 | 2:48:18 | 60.70 | 53.10 | 143 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 | 2:48:33 | 61.02 | 53.42 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 2:48:36 | 61.35 | 53.75 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 2:48:40 | 61.68 | 54.08 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 2:48:43 | 62.01 | 54.41 | 134 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 2:48:46 | 62.34 | 54.74 | 125 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 | 2:49:04 | 62.49 | 54.89 | 0 | 1.73 | 0.21 | 0.0 |

## E13 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:41:10

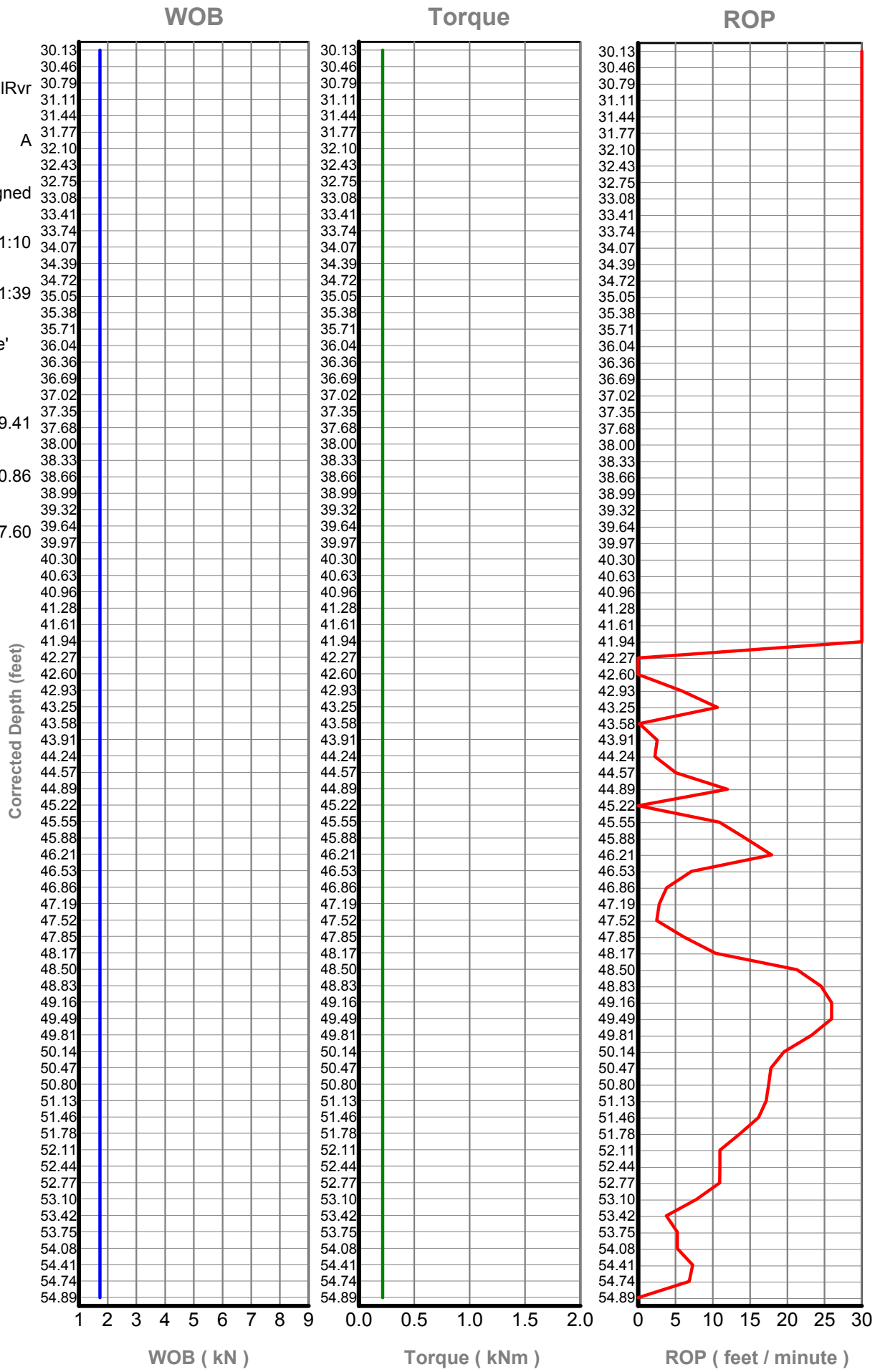
**End Date:**
4/21/2015 2:51:39

**Operator Note:**
'7.6 7.5 b Auto Complete'

**Northing:**
368,749.41

**Easting:**
253,000.86

**Tide (feet):**
7.60



## Hole: E130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:27:46 | 35.11 | 30.31 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:27:46 | 35.43 | 30.63 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:27:47 | 35.76 | 30.96 | 1,098 | 0.28 | 0.31 | 60.0 |
| 4/20/2015 17:27:47 | 36.09 | 31.29 | 1,098 | 0.28 | 0.31 | 60.0 |
| 4/20/2015 17:27:47 | 36.42 | 31.62 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 17:27:48 | 36.75 | 31.95 | 1,111 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:27:48 | 37.07 | 32.27 | 1,111 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:27:48 | 37.40 | 32.60 | 1,101 | 0.28 | 0.30 | 60.2 |
| 4/20/2015 17:27:49 | 37.73 | 32.93 | 1,101 | 0.28 | 0.30 | 60.2 |
| 4/20/2015 17:27:49 | 38.06 | 33.26 | 1,101 | 0.27 | 0.30 | 60.2 |
| 4/20/2015 17:27:49 | 38.39 | 33.59 | 1,111 | 0.28 | 0.32 | 60.7 |
| 4/20/2015 17:27:50 | 38.71 | 33.91 | 1,111 | 0.28 | 0.32 | 60.7 |
| 4/20/2015 17:27:50 | 39.04 | 34.24 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 17:27:50 | 39.37 | 34.57 | 1,074 | 0.27 | 0.31 | 58.7 |
| 4/20/2015 17:27:51 | 39.70 | 34.90 | 1,074 | 0.27 | 0.31 | 58.7 |
| 4/20/2015 17:27:51 | 40.03 | 35.23 | 1,088 | 0.28 | 0.32 | 59.5 |
| 4/20/2015 17:27:51 | 40.35 | 35.55 | 1,088 | 0.28 | 0.32 | 59.5 |
| 4/20/2015 17:27:51 | 40.68 | 35.88 | 1,094 | 0.28 | 0.32 | 59.8 |
| 4/20/2015 17:27:52 | 41.01 | 36.21 | 1,100 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 17:27:52 | 41.34 | 36.54 | 1,100 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 17:27:52 | 41.67 | 36.87 | 1,088 | 0.28 | 0.31 | 59.5 |
| 4/20/2015 17:27:53 | 41.99 | 37.19 | 1,088 | 0.28 | 0.31 | 59.5 |
| 4/20/2015 17:27:53 | 42.32 | 37.52 | 1,109 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:27:53 | 42.65 | 37.85 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 17:27:54 | 42.98 | 38.18 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 17:27:54 | 43.31 | 38.51 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/20/2015 17:27:54 | 43.64 | 38.84 | 1,068 | 0.27 | 0.32 | 58.4 |
| 4/20/2015 17:27:55 | 43.96 | 39.16 | 1,068 | 0.27 | 0.32 | 58.4 |
| 4/20/2015 17:27:55 | 44.29 | 39.49 | 1,068 | 0.28 | 0.31 | 58.4 |
| 4/20/2015 17:27:55 | 44.62 | 39.82 | 1,068 | 0.28 | 0.31 | 58.4 |
| 4/20/2015 17:27:55 | 44.95 | 40.15 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/20/2015 17:27:56 | 45.28 | 40.48 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:27:57 | 45.60 | 40.80 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:27:57 | 45.93 | 41.13 | 1,100 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:27:57 | 46.26 | 41.46 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:27:58 | 46.59 | 41.79 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:27:58 | 46.92 | 42.12 | 1,112 | 0.28 | 0.31 | 60.8 |
| 4/20/2015 17:27:58 | 47.24 | 42.44 | 1,112 | 0.28 | 0.31 | 60.8 |
| 4/20/2015 17:27:58 | 47.57 | 42.77 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 17:27:59 | 47.90 | 43.10 | 1,094 | 0.25 | 0.35 | 59.8 |
| 4/20/2015 17:27:59 | 48.23 | 43.43 | 1,042 | 0.26 | 0.40 | 57.0 |
| 4/20/2015 17:28:18 | 48.56 | 43.76 | 122 | 5.41 | 0.41 | 6.7 |
| 4/20/2015 17:28:19 | 48.88 | 44.08 | 216 | 2.76 | 0.37 | 11.8 |
| 4/20/2015 17:28:20 | 49.21 | 44.41 | 259 | 3.74 | 0.36 | 14.1 |
| 4/20/2015 17:28:21 | 49.54 | 44.74 | 417 | 3.18 | 0.35 | 22.8 |
| 4/20/2015 17:28:21 | 49.87 | 45.07 | 496 | 4.07 | 0.36 | 27.1 |
| 4/20/2015 17:28:22 | 50.20 | 45.40 | 534 | 3.80 | 0.37 | 29.2 |
| 4/20/2015 17:28:23 | 50.53 | 45.73 | 525 | 4.53 | 0.38 | 28.7 |
| 4/20/2015 17:28:23 | 50.85 | 46.05 | 505 | 2.94 | 0.37 | 27.6 |
| 4/20/2015 17:28:24 | 51.18 | 46.38 | 466 | 2.72 | 0.36 | 25.5 |
| 4/20/2015 17:28:25 | 51.51 | 46.71 | 461 | 3.13 | 0.39 | 25.2 |
| 4/20/2015 17:28:26 | 51.84 | 47.04 | 372 | 4.18 | 0.37 | 20.3 |
| 4/20/2015 17:28:29 | 52.17 | 47.37 | 187 | 3.61 | 0.39 | 10.2 |
| 4/20/2015 17:28:33 | 52.49 | 47.69 | 81 | 4.29 | 0.39 | 4.4 |
| 4/20/2015 17:28:37 | 52.82 | 48.02 | 75 | 4.33 | 0.40 | 4.1 |
| 4/20/2015 17:28:42 | 53.15 | 48.35 | 78 | 4.62 | 0.40 | 4.3 |
| 4/20/2015 17:28:47 | 53.48 | 48.68 | 71 | 4.90 | 0.40 | 3.9 |
| 4/20/2015 17:32:48 | 53.81 | 49.01 | 3 | 3.98 | 0.40 | 0.2 |
| 4/20/2015 17:32:52 | 54.13 | 49.33 | 87 | 3.77 | 0.38 | 4.7 |
| 4/20/2015 17:32:57 | 54.46 | 49.66 | 81 | 3.56 | 0.40 | 4.4 |
| 4/20/2015 17:33:01 | 54.79 | 49.99 | 83 | 4.05 | 0.40 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 17:33:06 | 55.12 | 50.32 | 72 | 3.39 | 0.40 | 3.9 |
| 4/20/2015 | 17:33:11 | 55.45 | 50.65 | 78 | 3.52 | 0.40 | 4.3 |
| 4/20/2015 | 17:33:15 | 55.77 | 50.97 | 75 | 3.73 | 0.40 | 4.1 |
| 4/20/2015 | 17:33:20 | 56.10 | 51.30 | 81 | 3.58 | 0.40 | 4.4 |
| 4/20/2015 | 17:33:24 | 56.43 | 51.63 | 84 | 3.40 | 0.39 | 4.6 |
| 4/20/2015 | 17:33:28 | 56.76 | 51.96 | 79 | 3.80 | 0.40 | 4.3 |
| 4/20/2015 | 17:33:33 | 57.09 | 52.29 | 78 | 3.52 | 0.40 | 4.2 |
| 4/20/2015 | 17:33:37 | 57.41 | 52.61 | 80 | 3.23 | 0.40 | 4.4 |
| 4/20/2015 | 17:33:39 | 57.53 | 52.73 | 78 | 2.96 | 0.40 | 4.3 |

## E130 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 17:26:41

**End Date:**
4/20/2015 17:35:33

**Operator Note:**
'4.8 '5 4.8 b Auto Complete'

**Northing:**
368,629.41

**Easting:**
253,446.68

**Tide (feet):**
4.80



## Hole: E131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:18:08 | 35.11 | 30.11 | 393 | 1.44 | 0.25 | 21.5 |
| 4/20/2015 17:18:09 | 35.43 | 30.43 | 392 | 1.49 | 0.25 | 21.4 |
| 4/20/2015 17:18:10 | 35.76 | 30.76 | 401 | 1.41 | 0.25 | 21.9 |
| 4/20/2015 17:18:11 | 36.09 | 31.09 | 397 | 1.46 | 0.25 | 21.7 |
| 4/20/2015 17:18:12 | 36.42 | 31.42 | 399 | 1.51 | 0.25 | 21.8 |
| 4/20/2015 17:18:13 | 36.75 | 31.75 | 399 | 1.49 | 0.25 | 21.8 |
| 4/20/2015 17:18:14 | 37.07 | 32.07 | 399 | 1.57 | 0.25 | 21.8 |
| 4/20/2015 17:18:14 | 37.40 | 32.40 | 399 | 1.39 | 0.25 | 21.8 |
| 4/20/2015 17:18:15 | 37.73 | 32.73 | 394 | 1.44 | 0.25 | 21.5 |
| 4/20/2015 17:18:16 | 38.06 | 33.06 | 399 | 1.18 | 0.25 | 21.8 |
| 4/20/2015 17:18:17 | 38.39 | 33.39 | 394 | 1.39 | 0.25 | 21.6 |
| 4/20/2015 17:18:18 | 38.71 | 33.71 | 400 | 1.54 | 0.25 | 21.8 |
| 4/20/2015 17:18:19 | 39.04 | 34.04 | 394 | 1.43 | 0.25 | 21.6 |
| 4/20/2015 17:18:20 | 39.37 | 34.37 | 393 | 1.59 | 0.25 | 21.5 |
| 4/20/2015 17:18:21 | 39.70 | 34.70 | 396 | 1.43 | 0.25 | 21.7 |
| 4/20/2015 17:18:22 | 40.03 | 35.03 | 398 | 1.59 | 0.25 | 21.8 |
| 4/20/2015 17:18:23 | 40.35 | 35.35 | 402 | 1.45 | 0.25 | 22.0 |
| 4/20/2015 17:18:24 | 40.68 | 35.68 | 399 | 1.45 | 0.25 | 21.8 |
| 4/20/2015 17:18:24 | 41.01 | 36.01 | 397 | 1.41 | 0.25 | 21.7 |
| 4/20/2015 17:18:25 | 41.34 | 36.34 | 396 | 1.45 | 0.25 | 21.7 |
| 4/20/2015 17:18:26 | 41.67 | 36.67 | 396 | 1.51 | 0.25 | 21.7 |
| 4/20/2015 17:18:27 | 41.99 | 36.99 | 399 | 1.38 | 0.25 | 21.8 |
| 4/20/2015 17:18:28 | 42.32 | 37.32 | 388 | 1.38 | 0.25 | 21.2 |
| 4/20/2015 17:18:29 | 42.65 | 37.65 | 388 | 1.51 | 0.25 | 21.2 |
| 4/20/2015 17:18:30 | 42.98 | 37.98 | 389 | 1.40 | 0.25 | 21.2 |
| 4/20/2015 17:18:31 | 43.31 | 38.31 | 388 | 1.49 | 0.25 | 21.2 |
| 4/20/2015 17:18:32 | 43.64 | 38.64 | 390 | 1.56 | 0.25 | 21.3 |
| 4/20/2015 17:18:33 | 43.96 | 38.96 | 393 | 1.49 | 0.25 | 21.5 |
| 4/20/2015 17:18:34 | 44.29 | 39.29 | 393 | 1.39 | 0.25 | 21.5 |
| 4/20/2015 17:18:34 | 44.62 | 39.62 | 396 | 1.46 | 0.25 | 21.7 |
| 4/20/2015 17:18:35 | 44.95 | 39.95 | 390 | 1.53 | 0.25 | 21.3 |
| 4/20/2015 17:18:36 | 45.28 | 40.28 | 393 | 1.48 | 0.25 | 21.5 |
| 4/20/2015 17:18:37 | 45.60 | 40.60 | 396 | 1.55 | 0.25 | 21.7 |
| 4/20/2015 17:18:38 | 45.93 | 40.93 | 394 | 1.56 | 0.25 | 21.5 |
| 4/20/2015 17:18:39 | 46.26 | 41.26 | 399 | 1.47 | 0.25 | 21.8 |
| 4/20/2015 17:18:40 | 46.59 | 41.59 | 396 | 1.49 | 0.25 | 21.7 |
| 4/20/2015 17:18:41 | 46.92 | 41.92 | 396 | 1.50 | 0.25 | 21.7 |
| 4/20/2015 17:18:46 | 47.24 | 42.24 | 0 | 1.78 | 1.07 | 0.0 |
| 4/20/2015 17:18:49 | 47.57 | 42.57 | 66 | 1.76 | 1.07 | 3.6 |
| 4/20/2015 17:19:02 | 47.90 | 42.90 | 24 | 1.76 | 1.03 | 1.3 |
| 4/20/2015 17:19:03 | 48.23 | 43.23 | 194 | 1.76 | 1.08 | 10.6 |
| 4/20/2015 17:19:05 | 48.56 | 43.56 | 263 | 1.83 | 1.20 | 14.4 |
| 4/20/2015 17:19:06 | 48.88 | 43.88 | 211 | 1.83 | 1.12 | 11.5 |
| 4/20/2015 17:19:09 | 49.21 | 44.21 | 126 | 1.86 | 1.08 | 6.9 |
| 4/20/2015 17:19:16 | 49.54 | 44.54 | 37 | 1.89 | 1.18 | 2.0 |
| 4/20/2015 17:19:23 | 49.87 | 44.87 | 40 | 1.89 | 1.14 | 2.2 |
| 4/20/2015 17:19:34 | 50.20 | 45.20 | 32 | 1.89 | 1.00 | 1.7 |
| 4/20/2015 17:19:43 | 50.53 | 45.53 | 61 | 1.96 | 1.05 | 3.3 |
| 4/20/2015 17:19:49 | 50.85 | 45.85 | 49 | 1.99 | 1.21 | 2.7 |
| 4/20/2015 17:19:58 | 51.18 | 46.18 | 38 | 1.96 | 1.11 | 2.1 |
| 4/20/2015 17:20:07 | 51.51 | 46.51 | 38 | 1.95 | 1.24 | 2.1 |
| 4/20/2015 17:20:16 | 51.84 | 46.84 | 38 | 1.98 | 1.13 | 2.1 |
| 4/20/2015 17:20:20 | 52.15 | 47.15 | 88 | 1.93 | 1.23 | 4.8 |

## E131 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 17:03:49

**End Date:**
4/20/2015 17:22:54

**Operator Note:**
'5 5.0 c Auto Complete'

**Northing:**
368,674.41

**Easting:**
253,506.68

**Tide (feet):**
5.00



## Hole: E132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:49:18 | 32.48 | 30.08 | 876 | 0.43 | 0.46 | 47.9 |
| 4/20/2015 9:49:19 | 32.81 | 30.41 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:49:19 | 33.14 | 30.74 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:49:19 | 33.46 | 31.06 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:20 | 33.79 | 31.39 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:20 | 34.12 | 31.72 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:20 | 34.45 | 32.05 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 9:49:21 | 34.78 | 32.38 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:21 | 35.11 | 32.71 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:21 | 35.43 | 33.03 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:49:22 | 35.76 | 33.36 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:49:22 | 36.09 | 33.69 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:23 | 36.42 | 34.02 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:23 | 36.75 | 34.35 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:23 | 37.07 | 34.67 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:49:24 | 37.40 | 35.00 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:24 | 37.73 | 35.33 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:24 | 38.06 | 35.66 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:25 | 38.39 | 35.99 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:25 | 38.71 | 36.31 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:25 | 39.04 | 36.64 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:26 | 39.37 | 36.97 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:26 | 39.70 | 37.30 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:49:26 | 40.03 | 37.63 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:49:27 | 40.35 | 37.95 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:49:27 | 40.68 | 38.28 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:27 | 41.01 | 38.61 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:28 | 41.34 | 38.94 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:49:28 | 41.67 | 39.27 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:49:28 | 41.99 | 39.59 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:29 | 42.32 | 39.92 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:49:29 | 42.65 | 40.25 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:29 | 42.98 | 40.58 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:49:30 | 43.31 | 40.91 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:49:30 | 43.64 | 41.24 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:49:30 | 43.96 | 41.56 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:49:30 | 44.29 | 41.89 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:49:31 | 44.62 | 42.22 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:31 | 44.95 | 42.55 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:31 | 45.28 | 42.88 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:32 | 45.60 | 43.20 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:32 | 45.93 | 43.53 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:32 | 46.26 | 43.86 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:33 | 46.59 | 44.19 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:49:33 | 46.92 | 44.52 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:49:33 | 47.24 | 44.84 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:49:34 | 47.57 | 45.17 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:49:34 | 47.90 | 45.50 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:49:35 | 48.23 | 45.83 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:35 | 48.56 | 46.16 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:49:35 | 48.88 | 46.48 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:49:36 | 49.21 | 46.81 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:49:36 | 49.54 | 47.14 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:49:36 | 49.87 | 47.47 | 1,086 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 9:49:37 | 50.20 | 47.80 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:49:47 | 50.53 | 48.13 | 69 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 9:49:48 | 50.85 | 48.45 | 267 | 0.43 | 0.46 | 14.6 |
| 4/20/2015 9:49:51 | 51.18 | 48.78 | 111 | 0.43 | 0.46 | 6.1 |
| 4/20/2015 9:49:53 | 51.51 | 49.11 | 122 | 0.43 | 0.46 | 6.7 |
| 4/20/2015 9:49:54 | 51.84 | 49.44 | 191 | 0.43 | 0.46 | 10.5 |
| 4/20/2015 9:49:55 | 52.17 | 49.77 | 348 | 0.43 | 0.46 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:49:57 | 52.49 | 50.09 | 193 | 0.43 | 0.46 | 10.5 |
| 4/20/2015 | 9:49:57 | 52.82 | 50.42 | 210 | 0.43 | 0.46 | 11.5 |
| 4/20/2015 | 9:49:58 | 53.15 | 50.75 | 288 | 0.43 | 0.46 | 15.7 |
| 4/20/2015 | 9:49:59 | 53.48 | 51.08 | 391 | 0.43 | 0.46 | 21.4 |
| 4/20/2015 | 9:50:00 | 53.81 | 51.41 | 485 | 0.43 | 0.46 | 26.5 |
| 4/20/2015 | 9:50:00 | 54.13 | 51.73 | 543 | 0.43 | 0.46 | 29.7 |
| 4/20/2015 | 9:50:01 | 54.46 | 52.06 | 579 | 0.43 | 0.46 | 31.7 |
| 4/20/2015 | 9:50:01 | 54.79 | 52.39 | 603 | 0.43 | 0.46 | 33.0 |
| 4/20/2015 | 9:50:02 | 55.12 | 52.72 | 643 | 0.43 | 0.46 | 35.1 |
| 4/20/2015 | 9:50:02 | 55.45 | 53.05 | 649 | 0.43 | 0.46 | 35.5 |
| 4/20/2015 | 9:50:03 | 55.77 | 53.37 | 652 | 0.43 | 0.46 | 35.7 |
| 4/20/2015 | 9:50:04 | 56.10 | 53.70 | 604 | 0.43 | 0.46 | 33.0 |
| 4/20/2015 | 9:50:04 | 56.43 | 54.03 | 553 | 0.43 | 0.46 | 30.2 |
| 4/20/2015 | 9:50:05 | 56.76 | 54.36 | 506 | 0.43 | 0.46 | 27.7 |
| 4/20/2015 | 9:50:06 | 57.09 | 54.69 | 421 | 0.43 | 0.46 | 23.0 |
| 4/20/2015 | 9:50:08 | 57.21 | 54.81 | 129 | 0.43 | 0.46 | 7.1 |

## E132 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:47:13

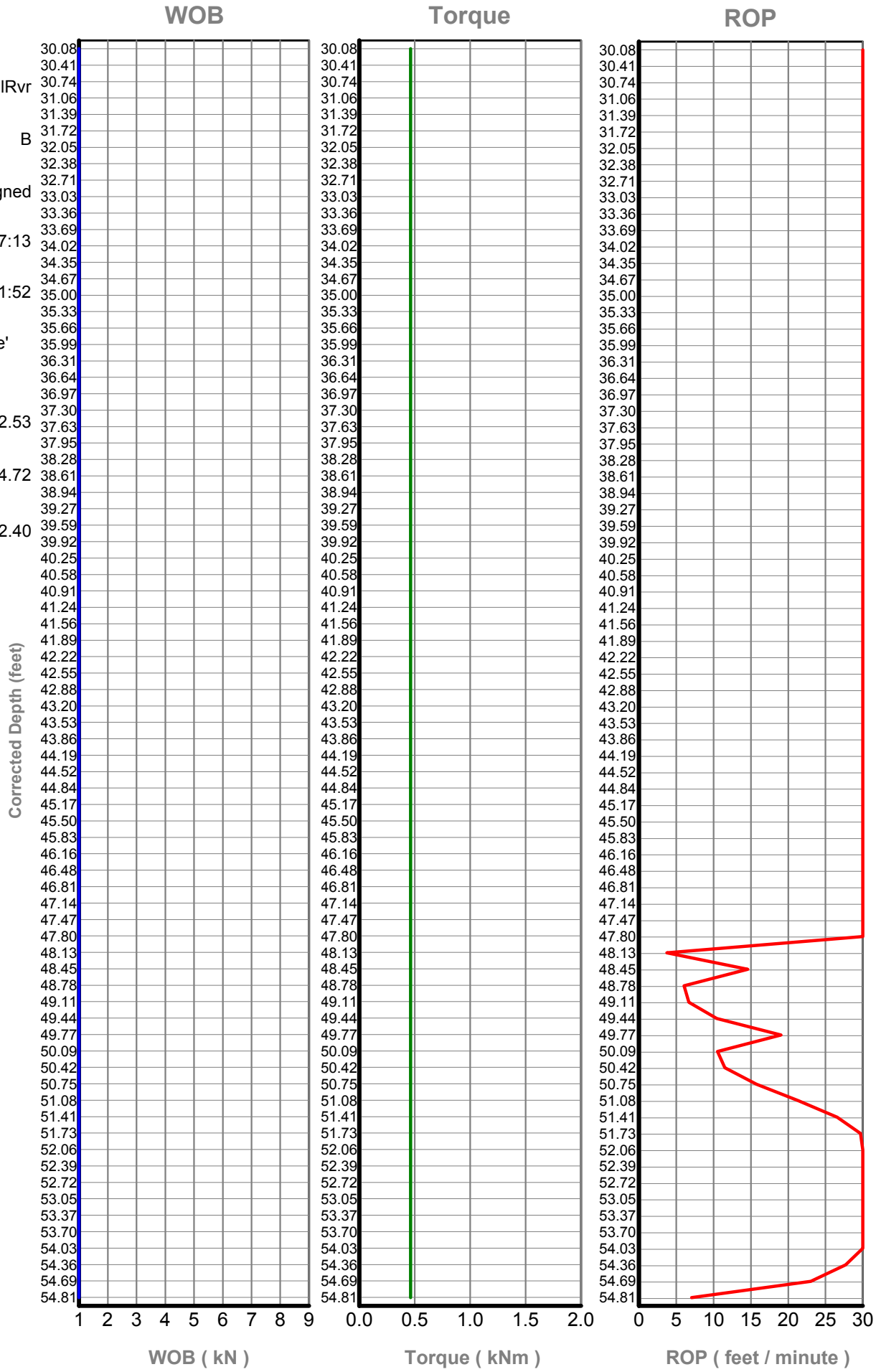
**End Date:**
4/20/2015 9:51:52

**Operator Note:**
'2.4 2.2 b Auto Complete'

**Northing:**
368,732.53

**Easting:**
253,574.72

**Tide (feet):**
2.40



## Hole: E133 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:54:20 | 32.48 | 30.08 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:54:21 | 32.81 | 30.41 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:54:21 | 33.14 | 30.74 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:54:21 | 33.46 | 31.06 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:54:22 | 33.79 | 31.39 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:54:22 | 34.12 | 31.72 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:54:22 | 34.45 | 32.05 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:54:23 | 34.78 | 32.38 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:54:23 | 35.11 | 32.71 | 1,039 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 9:54:23 | 35.43 | 33.03 | 1,030 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 9:54:24 | 35.76 | 33.36 | 1,030 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 9:54:24 | 36.09 | 33.69 | 1,030 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 9:54:24 | 36.42 | 34.02 | 1,032 | 0.43 | 0.46 | 56.4 |
| 4/20/2015 9:54:25 | 36.75 | 34.35 | 1,032 | 0.43 | 0.46 | 56.4 |
| 4/20/2015 9:54:25 | 37.07 | 34.67 | 1,032 | 0.43 | 0.46 | 56.5 |
| 4/20/2015 9:54:26 | 37.40 | 35.00 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 9:54:26 | 37.73 | 35.33 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 9:54:26 | 38.06 | 35.66 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:54:27 | 38.39 | 35.99 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:54:27 | 38.71 | 36.31 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:54:27 | 39.04 | 36.64 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:54:34 | 39.37 | 36.97 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 9:54:35 | 39.70 | 37.30 | 165 | 0.43 | 0.46 | 9.0 |
| 4/20/2015 9:54:35 | 40.03 | 37.63 | 375 | 0.43 | 0.46 | 20.5 |
| 4/20/2015 9:54:36 | 40.35 | 37.95 | 375 | 0.43 | 0.46 | 20.5 |
| 4/20/2015 9:54:36 | 40.68 | 38.28 | 597 | 0.43 | 0.46 | 32.6 |
| 4/20/2015 9:54:36 | 41.01 | 38.61 | 597 | 0.43 | 0.46 | 32.6 |
| 4/20/2015 9:54:36 | 41.34 | 38.94 | 815 | 0.43 | 0.46 | 44.6 |
| 4/20/2015 9:54:37 | 41.67 | 39.27 | 1,026 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 9:54:38 | 41.99 | 39.59 | 1,026 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 9:54:38 | 42.32 | 39.92 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:54:38 | 42.65 | 40.25 | 1,080 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:54:39 | 42.98 | 40.58 | 1,080 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:54:39 | 43.31 | 40.91 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:54:39 | 43.64 | 41.24 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:54:40 | 43.96 | 41.56 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:54:40 | 44.29 | 41.89 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:40 | 44.62 | 42.22 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:41 | 44.95 | 42.55 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:41 | 45.28 | 42.88 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:41 | 45.60 | 43.20 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:41 | 45.93 | 43.53 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:54:42 | 46.26 | 43.86 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:42 | 46.59 | 44.19 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:54:42 | 46.92 | 44.52 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:54:43 | 47.24 | 44.84 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:54:43 | 47.57 | 45.17 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:54:43 | 47.90 | 45.50 | 1,067 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:54:44 | 48.23 | 45.83 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:54:44 | 48.56 | 46.16 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:54:44 | 48.88 | 46.48 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:54:45 | 49.21 | 46.81 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:54:45 | 49.54 | 47.14 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:54:45 | 49.87 | 47.47 | 1,086 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 9:54:46 | 50.20 | 47.80 | 1,086 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 9:54:46 | 50.53 | 48.13 | 1,086 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 9:54:46 | 50.85 | 48.45 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:54:47 | 51.18 | 48.78 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:54:47 | 51.51 | 49.11 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:54:47 | 51.84 | 49.44 | 1,086 | 0.43 | 0.46 | 59.4 |
| 4/20/2015 9:54:48 | 52.17 | 49.77 | 1,086 | 0.43 | 0.46 | 59.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:55:01 | 52.49 | 50.09 | 38 | 0.43 | 0.46 | 2.1 |
| 4/20/2015 | 9:55:03 | 52.82 | 50.42 | 142 | 0.43 | 0.46 | 7.8 |
| 4/20/2015 | 9:55:05 | 53.15 | 50.75 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 | 9:55:23 | 53.48 | 51.08 | 23 | 0.43 | 0.46 | 1.3 |
| 4/20/2015 | 9:55:26 | 53.81 | 51.41 | 98 | 0.43 | 0.46 | 5.4 |
| 4/20/2015 | 9:55:28 | 54.13 | 51.73 | 151 | 0.43 | 0.46 | 8.3 |
| 4/20/2015 | 9:55:29 | 54.46 | 52.06 | 239 | 0.43 | 0.46 | 13.1 |
| 4/20/2015 | 9:55:30 | 54.79 | 52.39 | 346 | 0.43 | 0.46 | 18.9 |
| 4/20/2015 | 9:55:31 | 55.12 | 52.72 | 396 | 0.43 | 0.46 | 21.6 |
| 4/20/2015 | 9:55:33 | 55.45 | 53.05 | 187 | 0.43 | 0.46 | 10.2 |
| 4/20/2015 | 9:55:33 | 55.77 | 53.37 | 213 | 0.43 | 0.46 | 11.6 |
| 4/20/2015 | 9:55:35 | 56.10 | 53.70 | 367 | 0.43 | 0.46 | 20.0 |
| 4/20/2015 | 9:55:36 | 56.43 | 54.03 | 416 | 0.43 | 0.46 | 22.7 |
| 4/20/2015 | 9:55:38 | 56.76 | 54.36 | 214 | 0.43 | 0.46 | 11.7 |
| 4/20/2015 | 9:55:41 | 57.09 | 54.69 | 97 | 0.43 | 0.46 | 5.3 |
| 4/20/2015 | 9:55:42 | 57.21 | 54.81 | 102 | 0.43 | 0.46 | 5.6 |

## E133 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:52:53

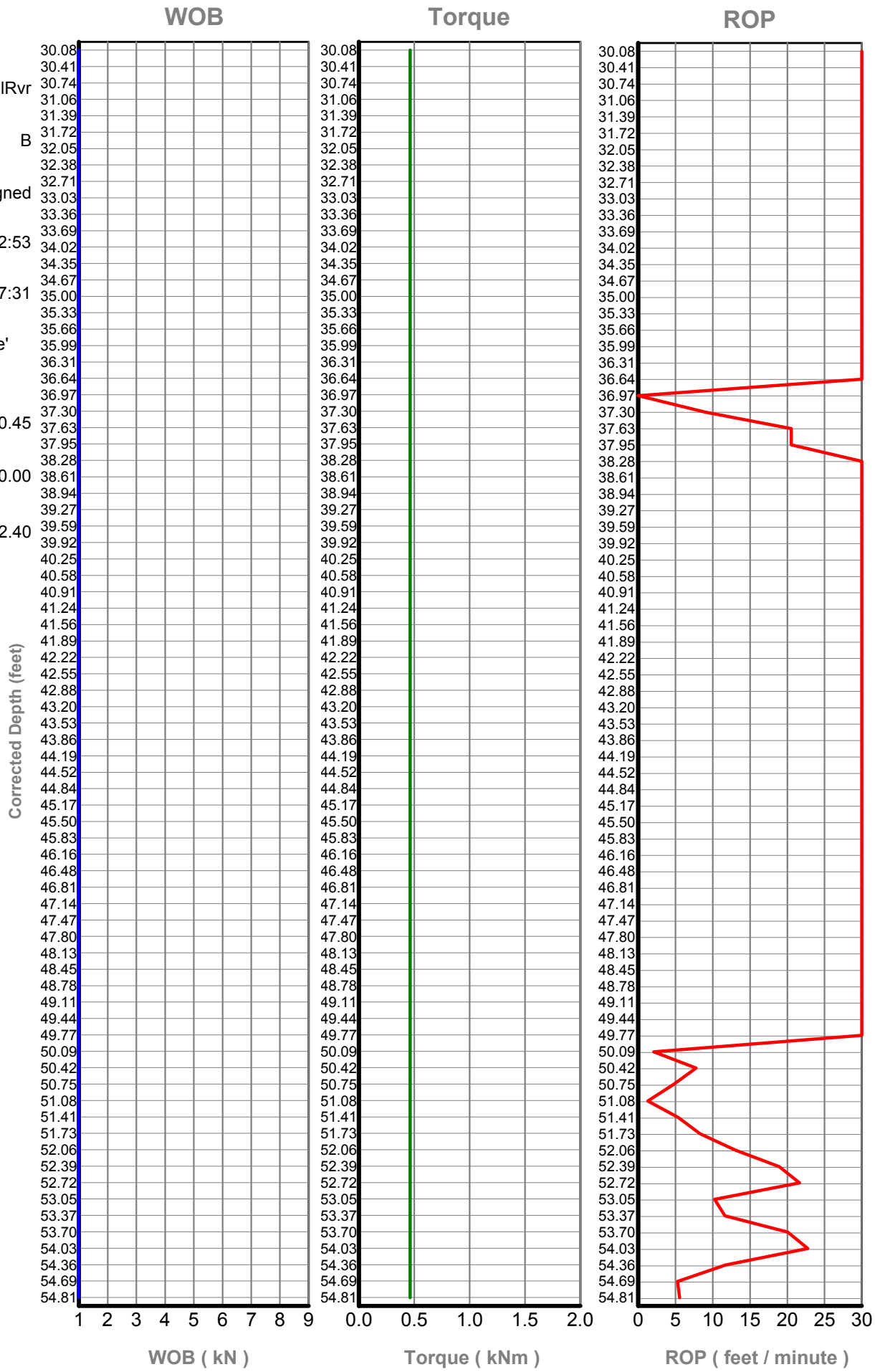
**End Date:**
4/20/2015 9:57:31

**Operator Note:**
'2.4 2.2 b Auto Complete'

**Northing:**
368,770.45

**Easting:**
253,620.00

**Tide (feet):**
2.40



## Hole: E134 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:59:38 | 32.48 | 30.08 | 1,092 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 9:59:39 | 32.81 | 30.41 | 1,092 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 9:59:39 | 33.14 | 30.74 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:59:39 | 33.46 | 31.06 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:59:40 | 33.79 | 31.39 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:59:40 | 34.12 | 31.72 | 1,063 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:59:40 | 34.45 | 32.05 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:59:41 | 34.78 | 32.38 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:59:41 | 35.11 | 32.71 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:59:41 | 35.43 | 33.03 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:59:42 | 35.76 | 33.36 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:59:42 | 36.09 | 33.69 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:59:42 | 36.42 | 34.02 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:59:43 | 36.75 | 34.35 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:59:43 | 37.07 | 34.67 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:59:43 | 37.40 | 35.00 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:59:44 | 37.73 | 35.33 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:59:44 | 38.06 | 35.66 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:59:44 | 38.39 | 35.99 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:59:44 | 38.71 | 36.31 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:59:45 | 39.04 | 36.64 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:59:45 | 39.37 | 36.97 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:59:45 | 39.70 | 37.30 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:46 | 40.03 | 37.63 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:59:47 | 40.35 | 37.95 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:59:47 | 40.68 | 38.28 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:59:47 | 41.01 | 38.61 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:48 | 41.34 | 38.94 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:48 | 41.67 | 39.27 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:48 | 41.99 | 39.59 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:59:49 | 42.32 | 39.92 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:59:49 | 42.65 | 40.25 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 9:59:49 | 42.98 | 40.58 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 9:59:50 | 43.31 | 40.91 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 9:59:50 | 43.64 | 41.24 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:59:50 | 43.96 | 41.56 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:59:51 | 44.29 | 41.89 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:59:51 | 44.62 | 42.22 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:51 | 44.95 | 42.55 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:52 | 45.28 | 42.88 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:52 | 45.60 | 43.20 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:59:52 | 45.93 | 43.53 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:59:53 | 46.26 | 43.86 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:59:53 | 46.59 | 44.19 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:53 | 46.92 | 44.52 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:59:54 | 47.24 | 44.84 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:59:54 | 47.57 | 45.17 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:59:54 | 47.90 | 45.50 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:59:55 | 48.23 | 45.83 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:59:55 | 48.56 | 46.16 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 10:00:25 | 48.88 | 46.48 | 41 | 0.43 | 0.46 | 2.3 |
| 4/20/2015 10:00:27 | 49.21 | 46.81 | 227 | 0.43 | 0.46 | 12.4 |
| 4/20/2015 10:01:40 | 49.54 | 47.14 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 10:02:53 | 49.87 | 47.47 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 10:01:41 | 50.20 | 47.80 | 275 | 0.43 | 0.46 | 15.1 |
| 4/20/2015 10:01:42 | 50.53 | 48.13 | 382 | 0.43 | 0.46 | 20.9 |
| 4/20/2015 10:01:43 | 50.85 | 48.45 | 363 | 0.43 | 0.46 | 19.9 |
| 4/20/2015 10:01:44 | 51.18 | 48.78 | 293 | 0.43 | 0.46 | 16.0 |
| 4/20/2015 10:01:45 | 51.51 | 49.11 | 352 | 0.43 | 0.46 | 19.2 |
| 4/20/2015 10:01:46 | 51.84 | 49.44 | 436 | 0.43 | 0.46 | 23.9 |
| 4/20/2015 10:01:46 | 52.17 | 49.77 | 460 | 0.43 | 0.46 | 25.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 10:01:47 | 52.49 | 50.09 | 480 | 0.43 | 0.46 | 26.2 |
| 4/20/2015 | 10:01:48 | 52.82 | 50.42 | 504 | 0.43 | 0.46 | 27.5 |
| 4/20/2015 | 10:01:48 | 53.15 | 50.75 | 535 | 0.43 | 0.46 | 29.2 |
| 4/20/2015 | 10:01:49 | 53.48 | 51.08 | 588 | 0.43 | 0.46 | 32.1 |
| 4/20/2015 | 10:01:49 | 53.81 | 51.41 | 619 | 0.43 | 0.46 | 33.9 |
| 4/20/2015 | 10:01:50 | 54.13 | 51.73 | 636 | 0.43 | 0.46 | 34.8 |
| 4/20/2015 | 10:01:50 | 54.46 | 52.06 | 637 | 0.43 | 0.46 | 34.8 |
| 4/20/2015 | 10:01:51 | 54.79 | 52.39 | 552 | 0.43 | 0.46 | 30.2 |
| 4/20/2015 | 10:01:52 | 55.12 | 52.72 | 515 | 0.43 | 0.46 | 28.1 |
| 4/20/2015 | 10:01:53 | 55.45 | 53.05 | 462 | 0.43 | 0.46 | 25.3 |
| 4/20/2015 | 10:01:54 | 55.77 | 53.37 | 436 | 0.43 | 0.46 | 23.9 |
| 4/20/2015 | 10:01:55 | 56.10 | 53.70 | 462 | 0.43 | 0.46 | 25.3 |
| 4/20/2015 | 10:01:55 | 56.43 | 54.03 | 459 | 0.43 | 0.46 | 25.1 |
| 4/20/2015 | 10:01:56 | 56.76 | 54.36 | 460 | 0.43 | 0.46 | 25.1 |
| 4/20/2015 | 10:01:57 | 57.09 | 54.69 | 442 | 0.43 | 0.46 | 24.2 |
| 4/20/2015 | 10:01:58 | 57.41 | 55.01 | 442 | 0.43 | 0.46 | 24.2 |

## E134 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:58:17

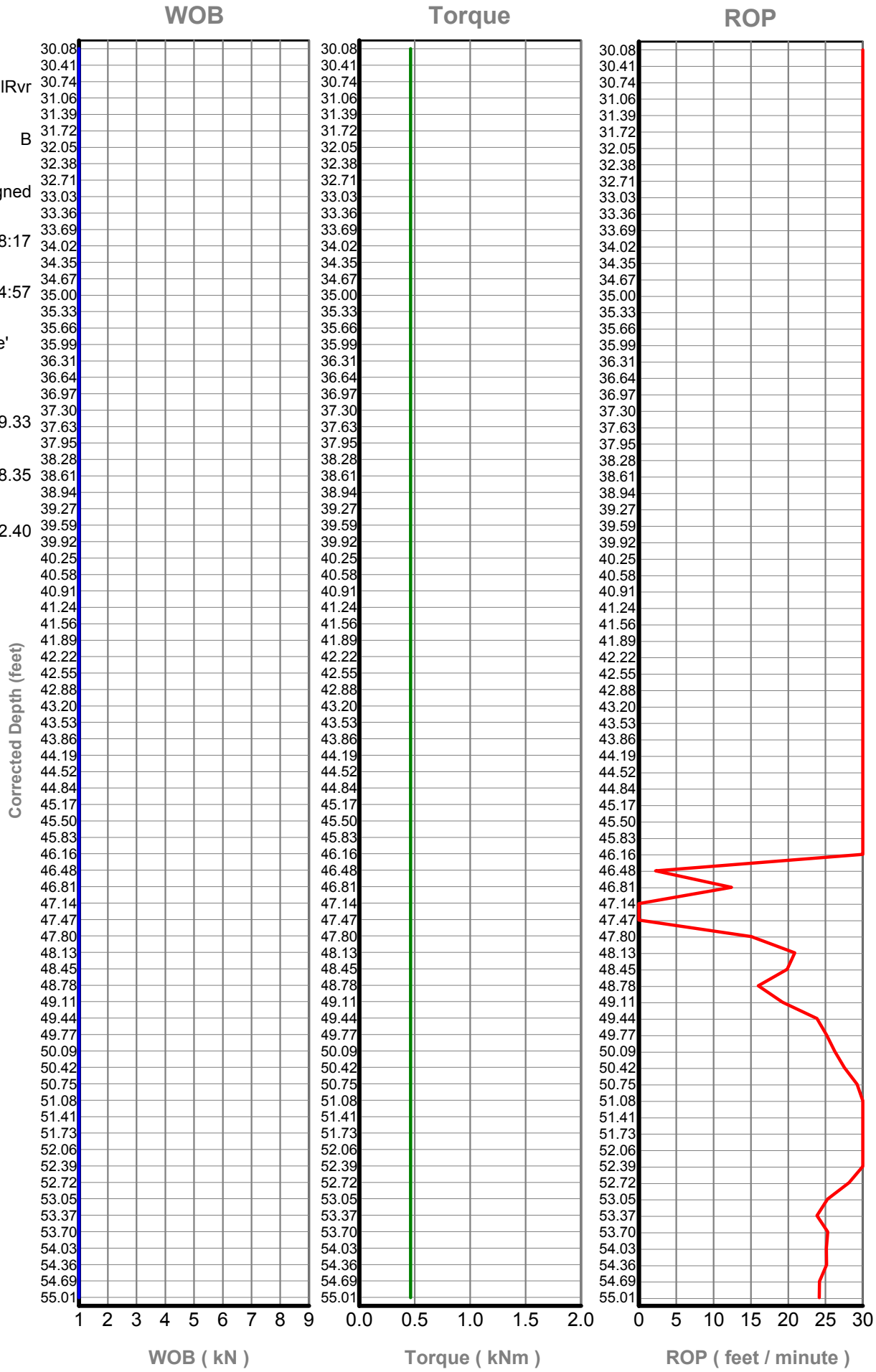
**End Date:**
4/20/2015 10:04:57

**Operator Note:**
'2.4 2.4 b Auto Complete'

**Northing:**
368,819.33

**Easting:**
253,678.35

**Tide (feet):**
2.40



## Hole: E135 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 6:43:32 | 34.12 | 30.22 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 6:43:32 | 34.45 | 30.55 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 6:43:33 | 34.78 | 30.88 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:33 | 35.11 | 31.21 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:33 | 35.43 | 31.53 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 6:43:34 | 35.76 | 31.86 | 987 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 6:43:34 | 36.09 | 32.19 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:35 | 36.42 | 32.52 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:35 | 36.75 | 32.85 | 990 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:43:35 | 37.07 | 33.17 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/20/2015 6:43:36 | 37.40 | 33.50 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/20/2015 6:43:36 | 37.73 | 33.83 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:43:36 | 38.06 | 34.16 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 6:43:37 | 38.39 | 34.49 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 6:43:37 | 38.71 | 34.81 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:43:37 | 39.04 | 35.14 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 6:43:38 | 39.37 | 35.47 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:38 | 39.70 | 35.80 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:38 | 40.03 | 36.13 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:39 | 40.35 | 36.45 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:39 | 40.68 | 36.78 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:39 | 41.01 | 37.11 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:43:40 | 41.34 | 37.44 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:43:40 | 41.67 | 37.77 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:43:40 | 41.99 | 38.09 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 6:43:41 | 42.32 | 38.42 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:43:41 | 42.65 | 38.75 | 990 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:43:42 | 42.98 | 39.08 | 990 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:43:42 | 43.31 | 39.41 | 985 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 6:43:42 | 43.64 | 39.74 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:43:43 | 43.96 | 40.06 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:43:43 | 44.29 | 40.39 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:43:44 | 44.62 | 40.72 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:44 | 44.95 | 41.05 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:43:44 | 45.28 | 41.38 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:43:45 | 45.60 | 41.70 | 966 | 1.93 | 0.22 | 52.8 |
| 4/20/2015 6:43:45 | 45.93 | 42.03 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:46 | 46.26 | 42.36 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:43:46 | 46.59 | 42.69 | 969 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 6:43:46 | 46.92 | 43.02 | 969 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 6:44:04 | 47.24 | 43.34 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 6:44:14 | 47.57 | 43.67 | 50 | 1.93 | 0.22 | 2.7 |
| 4/20/2015 6:44:15 | 47.90 | 44.00 | 186 | 1.93 | 0.22 | 10.2 |
| 4/20/2015 6:44:16 | 48.23 | 44.33 | 272 | 1.93 | 0.22 | 14.9 |
| 4/20/2015 6:44:17 | 48.56 | 44.66 | 312 | 1.93 | 0.22 | 17.1 |
| 4/20/2015 6:44:32 | 48.88 | 44.98 | 103 | 1.93 | 0.22 | 5.6 |
| 4/20/2015 6:44:33 | 49.21 | 45.31 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 6:44:34 | 49.54 | 45.64 | 317 | 1.93 | 0.22 | 17.3 |
| 4/20/2015 6:45:12 | 49.87 | 45.97 | 35 | 1.93 | 0.22 | 1.9 |
| 4/20/2015 6:45:13 | 50.20 | 46.30 | 115 | 1.93 | 0.22 | 6.3 |
| 4/20/2015 6:45:14 | 50.53 | 46.63 | 294 | 1.93 | 0.22 | 16.1 |
| 4/20/2015 6:45:15 | 50.85 | 46.95 | 378 | 1.93 | 0.22 | 20.7 |
| 4/20/2015 6:45:33 | 51.18 | 47.28 | 47 | 1.93 | 0.22 | 2.6 |
| 4/20/2015 6:45:34 | 51.51 | 47.61 | 136 | 1.93 | 0.22 | 7.4 |
| 4/20/2015 6:45:34 | 51.84 | 47.94 | 244 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 6:45:35 | 52.17 | 48.27 | 462 | 1.93 | 0.22 | 25.3 |
| 4/20/2015 6:45:36 | 52.49 | 48.59 | 524 | 1.93 | 0.22 | 28.6 |
| 4/20/2015 6:45:36 | 52.82 | 48.92 | 549 | 1.93 | 0.22 | 30.0 |
| 4/20/2015 6:45:38 | 53.15 | 49.25 | 515 | 1.93 | 0.22 | 28.1 |
| 4/20/2015 6:45:40 | 53.48 | 49.58 | 142 | 1.93 | 0.22 | 7.7 |
| 4/20/2015 6:45:41 | 53.81 | 49.91 | 195 | 1.93 | 0.22 | 10.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 6:45:56 | 54.13 | 50.23 | 55 | 1.93 | 0.22 | 3.0 |
| 4/20/2015 | 6:45:57 | 54.46 | 50.56 | 176 | 1.93 | 0.22 | 9.6 |
| 4/20/2015 | 6:45:58 | 54.79 | 50.89 | 259 | 1.93 | 0.22 | 14.2 |
| 4/20/2015 | 6:46:00 | 55.12 | 51.22 | 284 | 1.93 | 0.22 | 15.5 |
| 4/20/2015 | 6:46:02 | 55.45 | 51.55 | 179 | 1.93 | 0.22 | 9.8 |
| 4/20/2015 | 6:46:03 | 55.77 | 51.87 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 | 6:46:16 | 56.10 | 52.20 | 29 | 1.93 | 0.22 | 1.6 |
| 4/20/2015 | 6:46:17 | 56.43 | 52.53 | 191 | 1.93 | 0.22 | 10.4 |
| 4/20/2015 | 6:46:17 | 56.76 | 52.86 | 270 | 1.93 | 0.22 | 14.8 |
| 4/20/2015 | 6:46:18 | 57.09 | 53.19 | 401 | 1.93 | 0.22 | 21.9 |
| 4/20/2015 | 6:46:20 | 57.41 | 53.51 | 262 | 1.93 | 0.22 | 14.3 |
| 4/20/2015 | 6:46:22 | 57.74 | 53.84 | 161 | 1.93 | 0.22 | 8.8 |
| 4/20/2015 | 6:46:23 | 58.07 | 54.17 | 206 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 | 6:46:24 | 58.40 | 54.50 | 335 | 1.93 | 0.22 | 18.3 |
| 4/20/2015 | 6:46:25 | 58.73 | 54.83 | 395 | 1.93 | 0.22 | 21.6 |
| 4/20/2015 | 6:46:26 | 59.06 | 55.16 | 358 | 1.93 | 0.22 | 19.6 |
| 4/20/2015 | 6:46:29 | 59.29 | 55.39 | 82 | 1.93 | 0.22 | 4.5 |

## E135 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 6:41:51

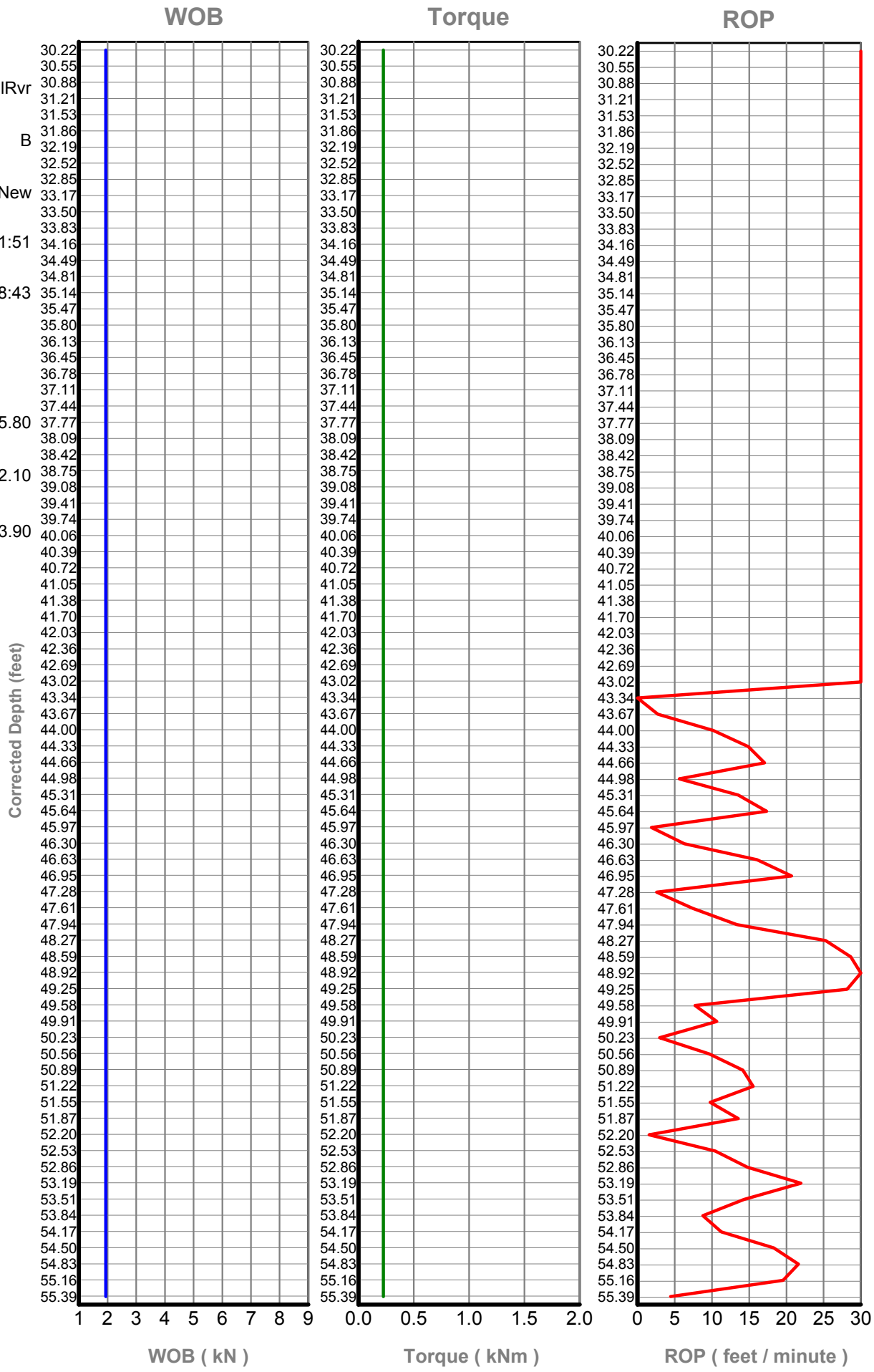
**End Date:**
4/20/2015 6:48:43

**Operator Note:**
'3.9 '4.2 4.32 b Auto Complete'

**Northing:**
368,865.80

**Easting:**
253,742.10

**Tide (feet):**
3.90



## Hole: E136 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 6:36:29 | 34.12 | 30.22 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:36:29 | 34.45 | 30.55 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 6:36:30 | 34.78 | 30.88 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 6:36:30 | 35.11 | 31.21 | 973 | 1.93 | 0.22 | 53.2 |
| 4/20/2015 6:36:30 | 35.43 | 31.53 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:36:31 | 35.76 | 31.86 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 6:36:31 | 36.09 | 32.19 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:36:31 | 36.42 | 32.52 | 988 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 6:36:32 | 36.75 | 32.85 | 988 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 6:36:32 | 37.07 | 33.17 | 982 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 6:36:32 | 37.40 | 33.50 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:36:33 | 37.73 | 33.83 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:36:33 | 38.06 | 34.16 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:36:33 | 38.39 | 34.49 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:36:34 | 38.71 | 34.81 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:36:34 | 39.04 | 35.14 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:36:34 | 39.37 | 35.47 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 6:36:35 | 39.70 | 35.80 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 6:36:36 | 40.03 | 36.13 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 6:36:35 | 40.35 | 36.45 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:36:36 | 40.68 | 36.78 | 999 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:37 | 41.01 | 37.11 | 999 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:37 | 41.34 | 37.44 | 993 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 6:36:37 | 41.67 | 37.77 | 990 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 6:36:38 | 41.99 | 38.09 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:36:38 | 42.32 | 38.42 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:36:38 | 42.65 | 38.75 | 988 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 6:36:39 | 42.98 | 39.08 | 991 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 6:36:39 | 43.31 | 39.41 | 991 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 6:36:39 | 43.64 | 39.74 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:36:40 | 43.96 | 40.06 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:36:40 | 44.29 | 40.39 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 6:36:40 | 44.62 | 40.72 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 6:36:41 | 44.95 | 41.05 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:41 | 45.28 | 41.38 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:41 | 45.60 | 41.70 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:36:42 | 45.93 | 42.03 | 988 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 6:36:42 | 46.26 | 42.36 | 999 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:43 | 46.59 | 42.69 | 999 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:36:43 | 46.92 | 43.02 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 6:36:43 | 47.24 | 43.34 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:36:44 | 47.57 | 43.67 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 6:37:06 | 47.90 | 44.00 | 71 | 1.93 | 0.22 | 3.9 |
| 4/20/2015 6:37:14 | 48.23 | 44.33 | 86 | 1.93 | 0.22 | 4.7 |
| 4/20/2015 6:37:15 | 48.56 | 44.66 | 214 | 1.93 | 0.22 | 11.7 |
| 4/20/2015 6:37:16 | 48.88 | 44.98 | 297 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 6:37:17 | 49.21 | 45.31 | 286 | 1.93 | 0.22 | 15.6 |
| 4/20/2015 6:37:19 | 49.54 | 45.64 | 285 | 1.93 | 0.22 | 15.6 |
| 4/20/2015 6:37:20 | 49.87 | 45.97 | 285 | 1.93 | 0.22 | 15.6 |
| 4/20/2015 6:37:21 | 50.20 | 46.30 | 296 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 6:37:22 | 50.53 | 46.63 | 350 | 1.93 | 0.22 | 19.1 |
| 4/20/2015 6:37:33 | 50.85 | 46.95 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 6:37:34 | 51.18 | 47.28 | 88 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 6:37:34 | 51.51 | 47.61 | 268 | 1.93 | 0.22 | 14.6 |
| 4/20/2015 6:37:35 | 51.84 | 47.94 | 436 | 1.93 | 0.22 | 23.9 |
| 4/20/2015 6:37:35 | 52.17 | 48.27 | 577 | 1.93 | 0.22 | 31.6 |
| 4/20/2015 6:37:36 | 52.49 | 48.59 | 672 | 1.93 | 0.22 | 36.7 |
| 4/20/2015 6:37:37 | 52.82 | 48.92 | 624 | 1.93 | 0.22 | 34.1 |
| 4/20/2015 6:37:37 | 53.15 | 49.25 | 584 | 1.93 | 0.22 | 31.9 |
| 4/20/2015 6:37:38 | 53.48 | 49.58 | 560 | 1.93 | 0.22 | 30.6 |
| 4/20/2015 6:37:41 | 53.81 | 49.91 | 58 | 1.93 | 0.22 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 6:37:46 | 54.13 | 50.23 | 54 | 1.93 | 0.22 | 3.0 |
| 4/20/2015 | 6:37:46 | 54.46 | 50.56 | 195 | 1.93 | 0.22 | 10.7 |
| 4/20/2015 | 6:37:47 | 54.79 | 50.89 | 301 | 1.93 | 0.22 | 16.5 |
| 4/20/2015 | 6:37:48 | 55.12 | 51.22 | 510 | 1.93 | 0.22 | 27.9 |
| 4/20/2015 | 6:37:48 | 55.45 | 51.55 | 570 | 1.93 | 0.22 | 31.2 |
| 4/20/2015 | 6:37:51 | 55.77 | 51.87 | 114 | 1.93 | 0.22 | 6.3 |
| 4/20/2015 | 6:37:51 | 56.10 | 52.20 | 112 | 1.93 | 0.22 | 6.1 |
| 4/20/2015 | 6:37:52 | 56.43 | 52.53 | 298 | 1.93 | 0.22 | 16.3 |
| 4/20/2015 | 6:37:53 | 56.76 | 52.86 | 421 | 1.93 | 0.22 | 23.0 |
| 4/20/2015 | 6:37:53 | 57.09 | 53.19 | 539 | 1.93 | 0.22 | 29.5 |
| 4/20/2015 | 6:37:54 | 57.41 | 53.51 | 544 | 1.93 | 0.22 | 29.8 |
| 4/20/2015 | 6:37:55 | 57.74 | 53.84 | 380 | 1.93 | 0.22 | 20.8 |
| 4/20/2015 | 6:38:06 | 58.07 | 54.17 | 24 | 1.93 | 0.22 | 1.3 |
| 4/20/2015 | 6:38:10 | 58.40 | 54.50 | 87 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 6:38:15 | 58.73 | 54.83 | 78 | 1.93 | 0.22 | 4.3 |
| 4/20/2015 | 6:38:19 | 59.06 | 55.16 | 85 | 1.93 | 0.22 | 4.6 |
| 4/20/2015 | 6:38:23 | 59.36 | 55.46 | 84 | 1.93 | 0.22 | 4.6 |

## E136 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 6:34:51

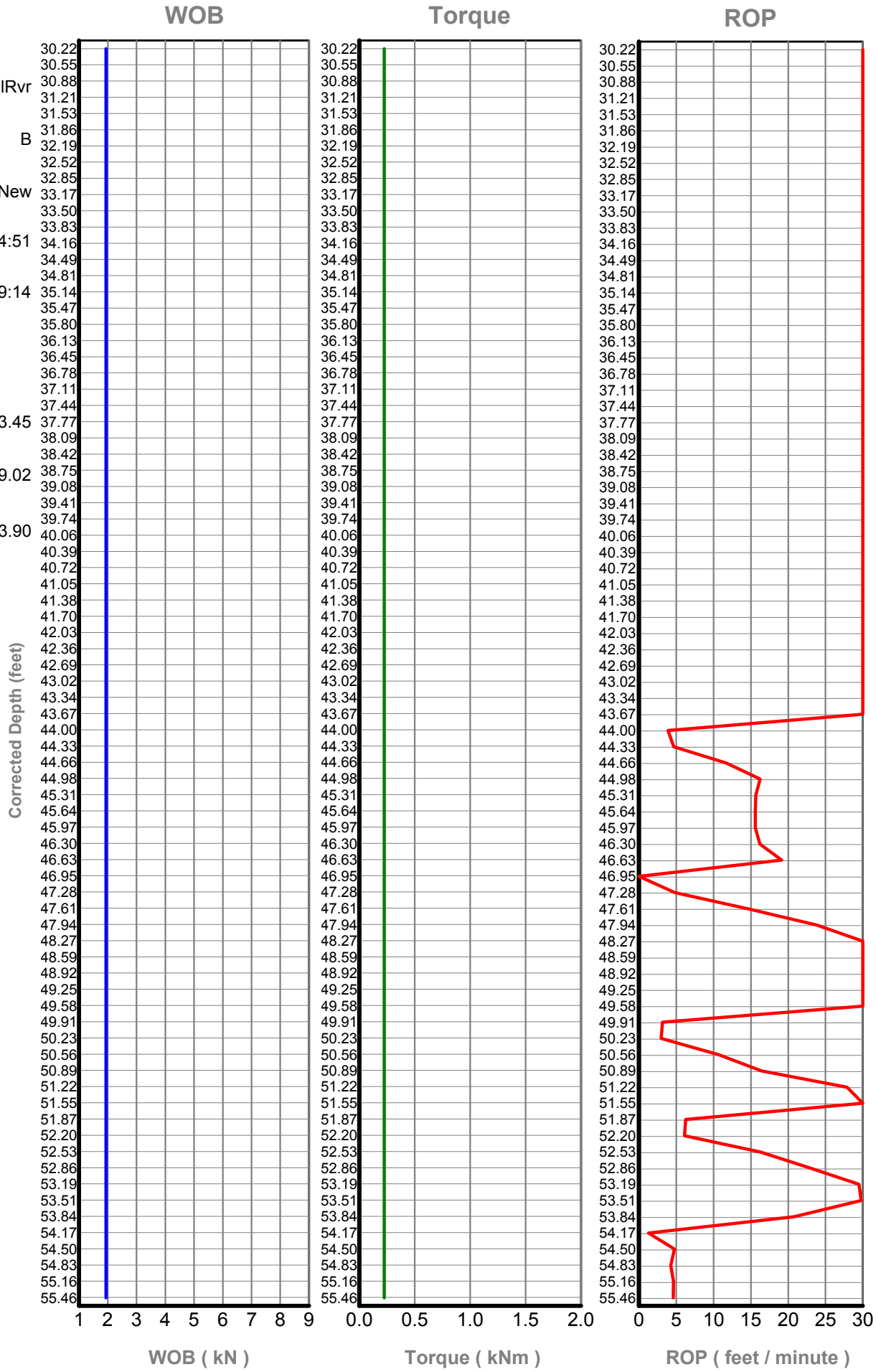
**End Date:**
4/20/2015 6:39:14

**Operator Note:**
'3.9 4.32 b Auto Complete'

**Northing:**
368,913.45

**Easting:**
253,799.02

**Tide (feet):**
3.90



## Hole: E137 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 6:20:53 | 34.45 | 30.25 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 6:20:53 | 34.78 | 30.58 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:20:54 | 35.11 | 30.91 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:20:54 | 35.43 | 31.23 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 6:20:55 | 35.76 | 31.56 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 6:20:55 | 36.09 | 31.89 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:20:56 | 36.42 | 32.22 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:20:56 | 36.75 | 32.55 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:20:56 | 37.07 | 32.87 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 6:20:57 | 37.40 | 33.20 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 6:20:57 | 37.73 | 33.53 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 6:20:57 | 38.06 | 33.86 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 6:20:58 | 38.39 | 34.19 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:20:58 | 38.71 | 34.51 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:20:58 | 39.04 | 34.84 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:20:59 | 39.37 | 35.17 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 6:20:59 | 39.70 | 35.50 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 6:21:00 | 40.03 | 35.83 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 6:21:00 | 40.35 | 36.15 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 6:21:00 | 40.68 | 36.48 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:21:01 | 41.01 | 36.81 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:21:01 | 41.34 | 37.14 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:01 | 41.67 | 37.47 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:02 | 41.99 | 37.79 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:02 | 42.32 | 38.12 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 6:21:02 | 42.65 | 38.45 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:03 | 42.98 | 38.78 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:03 | 43.31 | 39.11 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 6:21:03 | 43.64 | 39.44 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:04 | 43.96 | 39.76 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:04 | 44.29 | 40.09 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:04 | 44.62 | 40.42 | 995 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 6:21:05 | 44.95 | 40.75 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:05 | 45.28 | 41.08 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 6:21:05 | 45.60 | 41.40 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:06 | 45.93 | 41.73 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:07 | 46.26 | 42.06 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 6:21:07 | 46.59 | 42.39 | 992 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 6:21:07 | 46.92 | 42.72 | 992 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 6:21:07 | 47.24 | 43.04 | 992 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 6:21:08 | 47.57 | 43.37 | 992 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 6:21:26 | 47.90 | 43.70 | 6 | 1.93 | 0.22 | 0.3 |
| 4/20/2015 6:21:27 | 48.23 | 44.03 | 117 | 1.93 | 0.22 | 6.4 |
| 4/20/2015 6:22:13 | 48.56 | 44.36 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 6:22:14 | 48.88 | 44.68 | 165 | 1.93 | 0.22 | 9.0 |
| 4/20/2015 6:22:15 | 49.21 | 45.01 | 257 | 1.93 | 0.22 | 14.0 |
| 4/20/2015 6:22:26 | 49.54 | 45.34 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 6:22:31 | 49.87 | 45.67 | 92 | 1.93 | 0.22 | 5.0 |
| 4/20/2015 6:22:32 | 50.20 | 46.00 | 148 | 1.93 | 0.22 | 8.1 |
| 4/20/2015 6:22:34 | 50.53 | 46.33 | 244 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 6:22:34 | 50.85 | 46.65 | 244 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 6:22:35 | 51.18 | 46.98 | 303 | 1.93 | 0.22 | 16.6 |
| 4/20/2015 6:22:55 | 51.51 | 47.31 | 97 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 6:22:57 | 51.84 | 47.64 | 249 | 1.93 | 0.22 | 13.6 |
| 4/20/2015 6:22:58 | 52.17 | 47.97 | 252 | 1.93 | 0.22 | 13.8 |
| 4/20/2015 6:22:59 | 52.49 | 48.29 | 265 | 1.93 | 0.22 | 14.5 |
| 4/20/2015 6:23:00 | 52.82 | 48.62 | 419 | 1.93 | 0.22 | 22.9 |
| 4/20/2015 6:23:00 | 53.15 | 48.95 | 414 | 1.93 | 0.22 | 22.6 |
| 4/20/2015 6:23:01 | 53.48 | 49.28 | 448 | 1.93 | 0.22 | 24.5 |
| 4/20/2015 6:23:08 | 53.81 | 49.61 | 110 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 6:23:09 | 54.13 | 49.93 | 192 | 1.93 | 0.22 | 10.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 6:23:10 | 54.46 | 50.26 | 353 | 1.93 | 0.22 | 19.3 |
| 4/20/2015 | 6:23:11 | 54.79 | 50.59 | 358 | 1.93 | 0.22 | 19.6 |
| 4/20/2015 | 6:23:13 | 55.12 | 50.92 | 280 | 1.93 | 0.22 | 15.3 |
| 4/20/2015 | 6:23:26 | 55.45 | 51.25 | 43 | 1.93 | 0.22 | 2.3 |
| 4/20/2015 | 6:23:27 | 55.77 | 51.57 | 176 | 1.93 | 0.22 | 9.6 |
| 4/20/2015 | 6:23:34 | 56.10 | 51.90 | 61 | 1.93 | 0.22 | 3.3 |
| 4/20/2015 | 6:23:38 | 56.43 | 52.23 | 94 | 1.93 | 0.22 | 5.2 |
| 4/20/2015 | 6:23:42 | 56.76 | 52.56 | 80 | 1.93 | 0.22 | 4.3 |
| 4/20/2015 | 6:23:47 | 57.09 | 52.89 | 78 | 1.93 | 0.22 | 4.2 |
| 4/20/2015 | 6:23:51 | 57.41 | 53.21 | 81 | 1.93 | 0.22 | 4.5 |
| 4/20/2015 | 6:23:55 | 57.74 | 53.54 | 102 | 1.93 | 0.22 | 5.6 |
| 4/20/2015 | 6:24:23 | 58.07 | 53.87 | 105 | 1.93 | 0.22 | 5.7 |
| 4/20/2015 | 6:24:28 | 58.40 | 54.20 | 79 | 1.93 | 0.22 | 4.3 |
| 4/20/2015 | 6:24:33 | 58.73 | 54.53 | 76 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 | 6:25:05 | 59.00 | 54.80 | 0 | 1.93 | 0.22 | 0.0 |

## E137 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 6:19:25

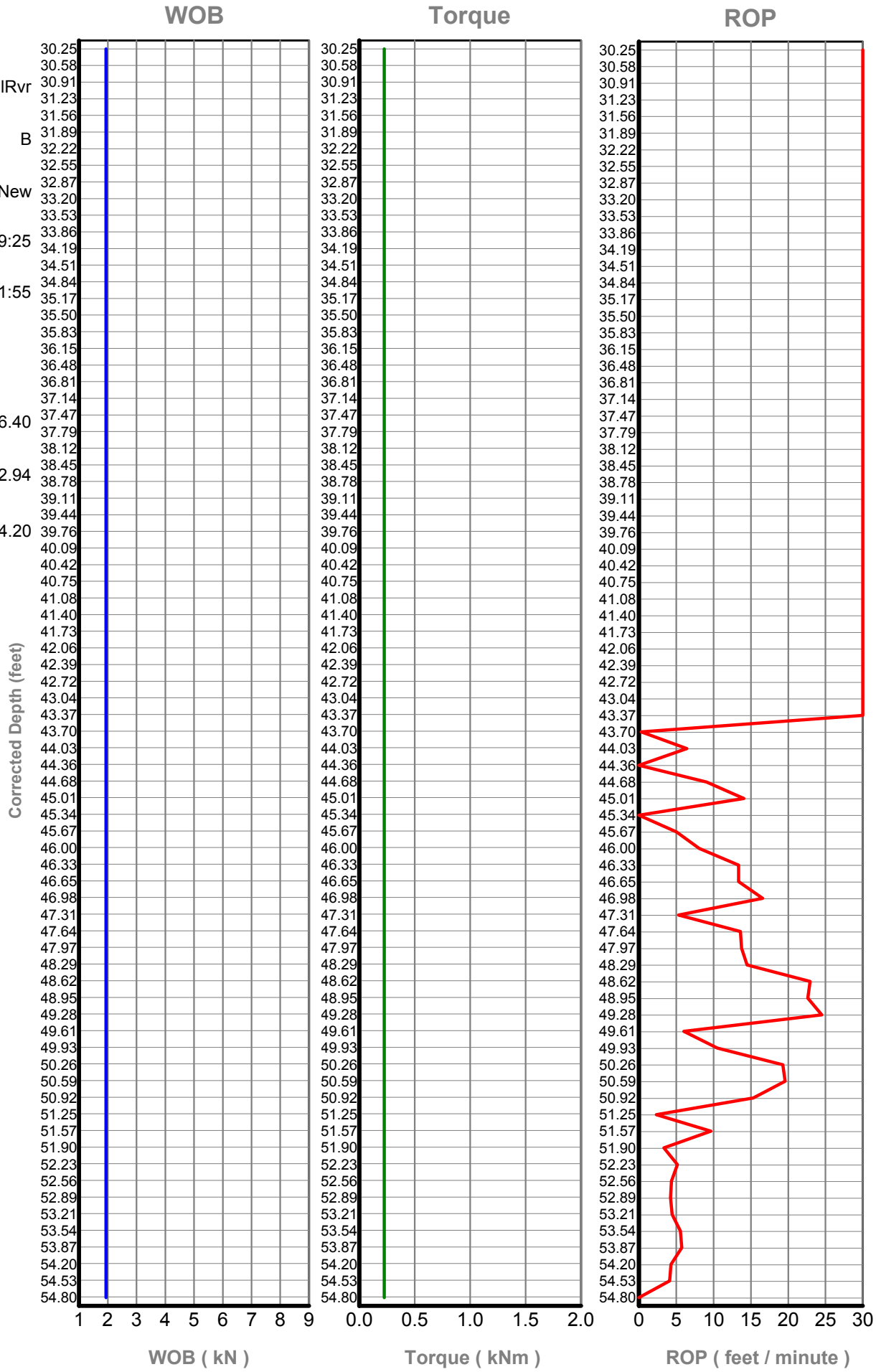
**End Date:**
4/20/2015 6:31:55

**Operator Note:**
'4.2 4.67 b Auto Complete'

**Northing:**
368,966.40

**Easting:**
253,862.94

**Tide (feet):**
4.20



## Hole: E138 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 17:07:00 | 34.12 | 30.12 | 1,015 | 0.29 | 0.33 | 55.5 |
| 4/19/2015 17:07:00 | 34.45 | 30.45 | 1,015 | 0.29 | 0.33 | 55.5 |
| 4/19/2015 17:07:00 | 34.78 | 30.78 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:01 | 35.11 | 31.11 | 1,003 | 0.32 | 0.33 | 54.8 |
| 4/19/2015 17:07:01 | 35.43 | 31.43 | 1,003 | 0.32 | 0.33 | 54.8 |
| 4/19/2015 17:07:01 | 35.76 | 31.76 | 1,003 | 0.32 | 0.34 | 54.8 |
| 4/19/2015 17:07:02 | 36.09 | 32.09 | 1,003 | 0.32 | 0.33 | 54.8 |
| 4/19/2015 17:07:02 | 36.42 | 32.42 | 1,006 | 0.32 | 0.33 | 55.0 |
| 4/19/2015 17:07:03 | 36.75 | 32.75 | 1,006 | 0.32 | 0.33 | 55.0 |
| 4/19/2015 17:07:03 | 37.07 | 33.07 | 1,003 | 0.32 | 0.33 | 54.8 |
| 4/19/2015 17:07:03 | 37.40 | 33.40 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:04 | 37.73 | 33.73 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:04 | 38.06 | 34.06 | 1,009 | 0.33 | 0.33 | 55.2 |
| 4/19/2015 17:07:04 | 38.39 | 34.39 | 1,009 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 17:07:05 | 38.71 | 34.71 | 1,009 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 17:07:05 | 39.04 | 35.04 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:05 | 39.37 | 35.37 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 17:07:06 | 39.70 | 35.70 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/19/2015 17:07:06 | 40.03 | 36.03 | 1,015 | 0.32 | 0.33 | 55.5 |
| 4/19/2015 17:07:06 | 40.35 | 36.35 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:07 | 40.68 | 36.68 | 1,012 | 0.32 | 0.33 | 55.3 |
| 4/19/2015 17:07:07 | 41.01 | 37.01 | 1,003 | 0.32 | 0.34 | 54.9 |
| 4/19/2015 17:07:07 | 41.34 | 37.34 | 983 | 0.31 | 0.35 | 53.7 |
| 4/19/2015 17:07:08 | 41.67 | 37.67 | 937 | 0.31 | 0.35 | 51.2 |
| 4/19/2015 17:07:09 | 41.99 | 37.99 | 859 | 0.31 | 0.35 | 46.9 |
| 4/19/2015 17:07:09 | 42.32 | 38.32 | 859 | 0.31 | 0.36 | 46.9 |
| 4/19/2015 17:07:10 | 42.65 | 38.65 | 827 | 0.31 | 0.36 | 45.2 |
| 4/19/2015 17:07:10 | 42.98 | 38.98 | 786 | 0.31 | 0.36 | 43.0 |
| 4/19/2015 17:07:11 | 43.31 | 39.31 | 786 | 0.31 | 0.36 | 43.0 |
| 4/19/2015 17:07:11 | 43.64 | 39.64 | 743 | 0.32 | 0.34 | 40.6 |
| 4/19/2015 17:07:23 | 43.96 | 39.96 | 85 | 0.34 | 0.34 | 4.6 |
| 4/19/2015 17:07:24 | 44.29 | 40.29 | 85 | 0.34 | 0.34 | 4.6 |
| 4/19/2015 17:07:24 | 44.62 | 40.62 | 85 | 0.34 | 0.35 | 4.6 |
| 4/19/2015 17:07:24 | 44.95 | 40.95 | 267 | 0.33 | 0.35 | 14.6 |
| 4/19/2015 17:07:25 | 45.28 | 41.28 | 429 | 0.33 | 0.35 | 23.5 |
| 4/19/2015 17:07:25 | 45.60 | 41.60 | 594 | 0.34 | 0.35 | 32.5 |
| 4/19/2015 17:07:26 | 45.93 | 41.93 | 757 | 0.34 | 0.34 | 41.4 |
| 4/19/2015 17:07:26 | 46.26 | 42.26 | 757 | 0.34 | 0.34 | 41.4 |
| 4/19/2015 17:07:26 | 46.59 | 42.59 | 849 | 0.34 | 0.34 | 46.4 |
| 4/19/2015 17:07:27 | 46.92 | 42.92 | 835 | 0.34 | 0.34 | 45.7 |
| 4/19/2015 17:07:29 | 47.24 | 43.24 | 338 | 0.31 | 0.34 | 18.5 |
| 4/19/2015 17:07:30 | 47.57 | 43.57 | 350 | 0.31 | 0.34 | 19.1 |
| 4/19/2015 17:07:30 | 47.90 | 43.90 | 350 | 0.31 | 0.34 | 19.1 |
| 4/19/2015 17:07:30 | 48.23 | 44.23 | 399 | 0.31 | 0.34 | 21.8 |
| 4/19/2015 17:07:31 | 48.56 | 44.56 | 596 | 0.31 | 0.34 | 32.6 |
| 4/19/2015 17:07:31 | 48.88 | 44.88 | 596 | 0.31 | 0.34 | 32.6 |
| 4/19/2015 17:07:31 | 49.21 | 45.21 | 779 | 0.30 | 0.34 | 42.6 |
| 4/19/2015 17:07:32 | 49.54 | 45.54 | 926 | 0.31 | 0.34 | 50.6 |
| 4/19/2015 17:07:32 | 49.87 | 45.87 | 929 | 0.31 | 0.34 | 50.8 |
| 4/19/2015 17:07:33 | 50.20 | 46.20 | 929 | 0.31 | 0.34 | 50.8 |
| 4/19/2015 17:07:33 | 50.53 | 46.53 | 937 | 0.30 | 0.34 | 51.2 |
| 4/19/2015 17:07:33 | 50.85 | 46.85 | 931 | 0.33 | 0.34 | 50.9 |
| 4/19/2015 17:07:34 | 51.18 | 47.18 | 928 | 0.31 | 0.34 | 50.7 |
| 4/19/2015 17:07:34 | 51.51 | 47.51 | 928 | 0.31 | 0.34 | 50.7 |
| 4/19/2015 17:07:34 | 51.84 | 47.84 | 919 | 0.30 | 0.36 | 50.3 |
| 4/19/2015 17:07:40 | 52.17 | 48.17 | 15 | 4.91 | 0.43 | 0.8 |
| 4/19/2015 17:07:42 | 52.49 | 48.49 | 147 | 3.90 | 0.35 | 8.0 |
| 4/19/2015 17:07:44 | 52.82 | 48.82 | 145 | 4.08 | 0.39 | 7.9 |
| 4/19/2015 17:07:46 | 53.15 | 49.15 | 179 | 2.61 | 0.36 | 9.8 |
| 4/19/2015 17:07:47 | 53.48 | 49.48 | 235 | 2.10 | 0.35 | 12.9 |
| 4/19/2015 17:07:47 | 53.81 | 49.81 | 345 | 2.33 | 0.36 | 18.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 17:07:48 | 54.13 | 50.13 | 444 | 2.61 | 0.37 | 24.3 |
| 4/19/2015 | 17:07:48 | 54.46 | 50.46 | 536 | 2.64 | 0.37 | 29.3 |
| 4/19/2015 | 17:07:49 | 54.79 | 50.79 | 619 | 2.21 | 0.36 | 33.9 |
| 4/19/2015 | 17:07:49 | 55.12 | 51.12 | 660 | 2.08 | 0.36 | 36.1 |
| 4/19/2015 | 17:07:51 | 55.45 | 51.45 | 471 | 3.69 | 0.41 | 25.8 |
| 4/19/2015 | 17:07:59 | 55.77 | 51.77 | 51 | 3.37 | 0.41 | 2.8 |
| 4/19/2015 | 17:08:04 | 56.10 | 52.10 | 95 | 3.81 | 0.40 | 5.2 |
| 4/19/2015 | 17:08:11 | 56.43 | 52.43 | 41 | 4.10 | 0.41 | 2.2 |
| 4/19/2015 | 17:11:33 | 56.76 | 52.76 | 98 | 3.70 | 0.40 | 5.4 |
| 4/19/2015 | 17:11:37 | 57.09 | 53.09 | 84 | 3.67 | 0.41 | 4.6 |
| 4/19/2015 | 17:11:41 | 57.41 | 53.41 | 104 | 4.00 | 0.42 | 5.7 |
| 4/19/2015 | 17:11:45 | 57.74 | 53.74 | 84 | 3.90 | 0.40 | 4.6 |
| 4/19/2015 | 17:11:49 | 58.07 | 54.07 | 97 | 3.73 | 0.41 | 5.3 |
| 4/19/2015 | 17:11:52 | 58.40 | 54.40 | 103 | 3.77 | 0.40 | 5.7 |
| 4/19/2015 | 17:11:55 | 58.73 | 54.73 | 120 | 3.57 | 0.40 | 6.6 |
| 4/19/2015 | 17:11:58 | 59.06 | 55.06 | 127 | 3.21 | 0.40 | 6.9 |

## E138 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 17:05:56

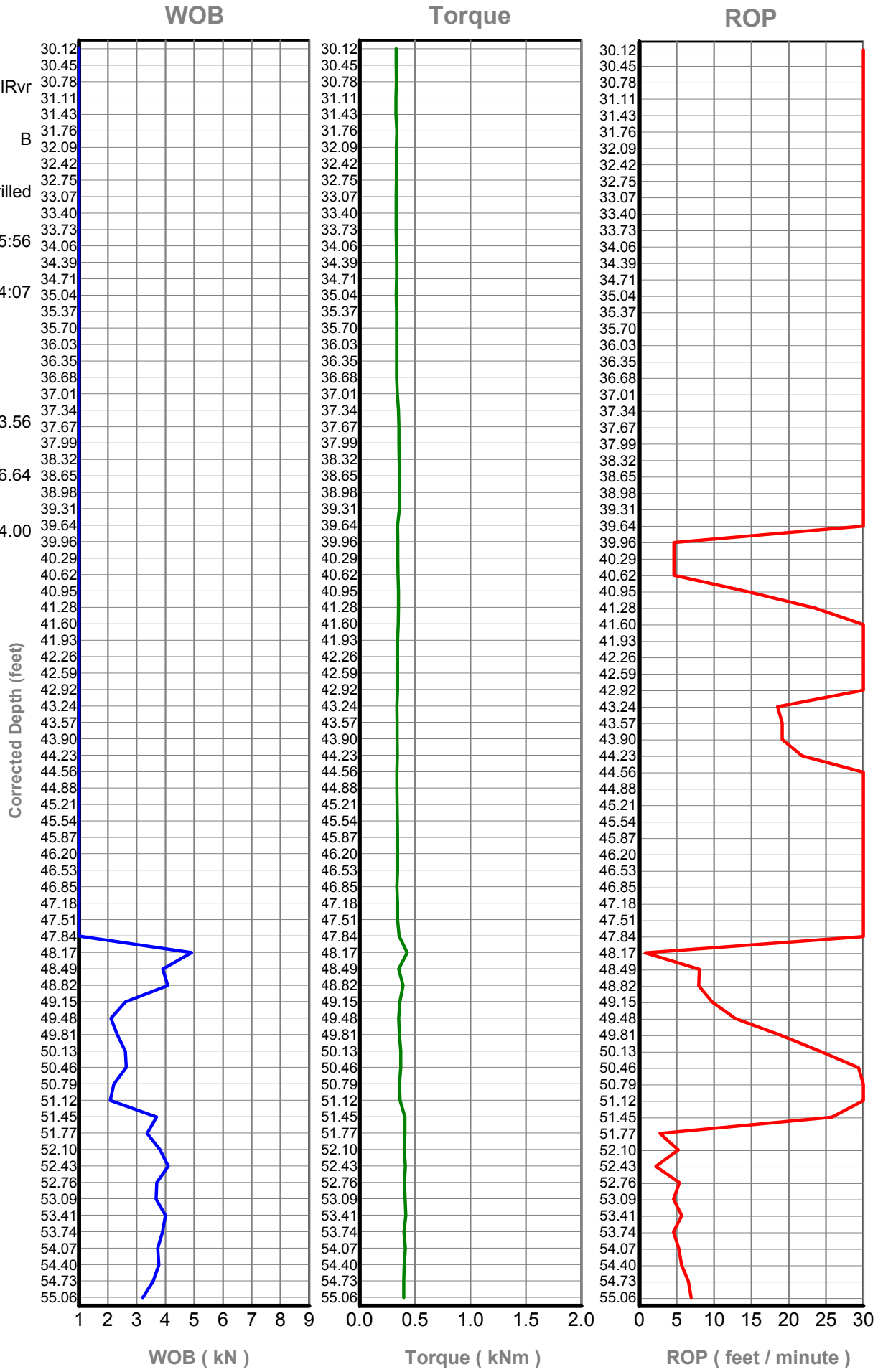
**End Date:**
4/19/2015 17:14:07

**Operator Note:**
'4 4.1 b Auto Complete'

**Northing:**
369,023.56

**Easting:**
253,936.64

**Tide (feet):**
4.00



## Hole: E139 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 16:55:05 | 34.12 | 30.02 | 1,023 | 0.31 | 0.34 | 55.9 |
| 4/19/2015 16:55:05 | 34.45 | 30.35 | 1,033 | 0.31 | 0.33 | 56.5 |
| 4/19/2015 16:55:05 | 34.78 | 30.68 | 1,020 | 0.31 | 0.34 | 55.8 |
| 4/19/2015 16:55:06 | 35.11 | 31.01 | 1,020 | 0.31 | 0.34 | 55.8 |
| 4/19/2015 16:55:06 | 35.43 | 31.33 | 1,030 | 0.31 | 0.34 | 56.3 |
| 4/19/2015 16:55:06 | 35.76 | 31.66 | 1,021 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 16:55:07 | 36.09 | 31.99 | 1,021 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 16:55:07 | 36.42 | 32.32 | 1,013 | 0.31 | 0.33 | 55.4 |
| 4/19/2015 16:55:07 | 36.75 | 32.65 | 1,013 | 0.31 | 0.33 | 55.4 |
| 4/19/2015 16:55:08 | 37.07 | 32.97 | 1,013 | 0.31 | 0.33 | 55.4 |
| 4/19/2015 16:55:08 | 37.40 | 33.30 | 1,017 | 0.31 | 0.34 | 55.6 |
| 4/19/2015 16:55:08 | 37.73 | 33.63 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:09 | 38.06 | 33.96 | 1,009 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 16:55:09 | 38.39 | 34.29 | 1,009 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 16:55:09 | 38.71 | 34.61 | 1,017 | 0.31 | 0.33 | 55.6 |
| 4/19/2015 16:55:10 | 39.04 | 34.94 | 1,017 | 0.31 | 0.33 | 55.6 |
| 4/19/2015 16:55:10 | 39.37 | 35.27 | 1,034 | 0.31 | 0.33 | 56.6 |
| 4/19/2015 16:55:11 | 39.70 | 35.60 | 1,020 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 16:55:11 | 40.03 | 35.93 | 1,020 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 16:55:12 | 40.35 | 36.25 | 1,020 | 0.31 | 0.33 | 55.8 |
| 4/19/2015 16:55:12 | 40.68 | 36.58 | 1,012 | 0.33 | 0.34 | 55.3 |
| 4/19/2015 16:55:12 | 41.01 | 36.91 | 1,012 | 0.31 | 0.33 | 55.3 |
| 4/19/2015 16:55:13 | 41.34 | 37.24 | 1,012 | 0.31 | 0.33 | 55.3 |
| 4/19/2015 16:55:13 | 41.67 | 37.57 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/19/2015 16:55:13 | 41.99 | 37.89 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/19/2015 16:55:14 | 42.32 | 38.22 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/19/2015 16:55:14 | 42.65 | 38.55 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/19/2015 16:55:14 | 42.98 | 38.88 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:15 | 43.31 | 39.21 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:15 | 43.64 | 39.54 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:15 | 43.96 | 39.86 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:16 | 44.29 | 40.19 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:16 | 44.62 | 40.52 | 1,014 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:16 | 44.95 | 40.85 | 1,026 | 0.31 | 0.33 | 56.1 |
| 4/19/2015 16:55:17 | 45.28 | 41.18 | 1,026 | 0.31 | 0.33 | 56.1 |
| 4/19/2015 16:55:17 | 45.60 | 41.50 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/19/2015 16:55:17 | 45.93 | 41.83 | 998 | 0.10 | 0.33 | 54.6 |
| 4/19/2015 16:55:18 | 46.26 | 42.16 | 998 | 0.10 | 0.33 | 54.6 |
| 4/19/2015 16:55:18 | 46.59 | 42.49 | 1,010 | 0.32 | 0.33 | 55.2 |
| 4/19/2015 16:55:18 | 46.92 | 42.82 | 1,013 | 0.31 | 0.33 | 55.4 |
| 4/19/2015 16:55:19 | 47.24 | 43.14 | 1,013 | 0.31 | 0.33 | 55.4 |
| 4/19/2015 16:55:19 | 47.57 | 43.47 | 1,007 | 0.31 | 0.33 | 55.1 |
| 4/19/2015 16:55:19 | 47.90 | 43.80 | 1,007 | 0.32 | 0.33 | 55.1 |
| 4/19/2015 16:55:20 | 48.23 | 44.13 | 1,010 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 16:55:20 | 48.56 | 44.46 | 1,010 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 16:55:20 | 48.88 | 44.78 | 1,010 | 0.31 | 0.33 | 55.2 |
| 4/19/2015 16:55:21 | 49.21 | 45.11 | 1,001 | 0.31 | 0.33 | 54.7 |
| 4/19/2015 16:55:22 | 49.54 | 45.44 | 1,001 | 0.31 | 0.33 | 54.7 |
| 4/19/2015 16:55:36 | 49.87 | 45.77 | 0 | 2.66 | 0.37 | 0.0 |
| 4/19/2015 16:55:36 | 50.20 | 46.10 | 74 | 2.76 | 0.34 | 4.0 |
| 4/19/2015 16:55:37 | 50.53 | 46.43 | 276 | 3.01 | 0.38 | 15.1 |
| 4/19/2015 16:55:38 | 50.85 | 46.75 | 356 | 3.25 | 0.38 | 19.5 |
| 4/19/2015 16:55:38 | 51.18 | 47.08 | 433 | 2.40 | 0.36 | 23.7 |
| 4/19/2015 16:55:39 | 51.51 | 47.41 | 482 | 2.13 | 0.36 | 26.4 |
| 4/19/2015 16:55:39 | 51.84 | 47.74 | 506 | 2.08 | 0.36 | 27.7 |
| 4/19/2015 16:55:40 | 52.17 | 48.07 | 608 | 2.57 | 0.40 | 33.2 |
| 4/19/2015 16:55:43 | 52.49 | 48.39 | 130 | 3.67 | 0.41 | 7.1 |
| 4/19/2015 16:55:47 | 52.82 | 48.72 | 93 | 4.64 | 0.40 | 5.1 |
| 4/19/2015 16:55:50 | 53.15 | 49.05 | 96 | 3.21 | 0.39 | 5.3 |
| 4/19/2015 16:55:52 | 53.48 | 49.38 | 220 | 3.09 | 0.40 | 12.0 |
| 4/19/2015 16:55:54 | 53.81 | 49.71 | 179 | 4.24 | 0.40 | 9.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 16:55:57 | 54.13 | 50.03 | 105 | 3.49 | 0.37 | 5.8 |
| 4/19/2015 | 16:55:58 | 54.46 | 50.36 | 209 | 3.05 | 0.38 | 11.4 |
| 4/19/2015 | 16:56:00 | 54.79 | 50.69 | 286 | 2.99 | 0.38 | 15.7 |
| 4/19/2015 | 16:56:03 | 55.12 | 51.02 | 129 | 3.73 | 0.40 | 7.1 |
| 4/19/2015 | 16:56:10 | 55.45 | 51.35 | 69 | 5.16 | 0.42 | 3.8 |
| 4/19/2015 | 16:56:48 | 55.77 | 51.67 | 29 | 3.69 | 0.39 | 1.6 |
| 4/19/2015 | 16:56:51 | 56.10 | 52.00 | 107 | 3.43 | 0.40 | 5.8 |
| 4/19/2015 | 16:57:32 | 56.43 | 52.33 | 66 | 3.54 | 0.40 | 3.6 |
| 4/19/2015 | 16:57:35 | 56.76 | 52.66 | 119 | 3.54 | 0.40 | 6.5 |
| 4/19/2015 | 16:57:39 | 57.09 | 52.99 | 110 | 3.59 | 0.41 | 6.0 |
| 4/19/2015 | 16:57:41 | 57.41 | 53.31 | 126 | 3.75 | 0.41 | 6.9 |
| 4/19/2015 | 16:57:45 | 57.74 | 53.64 | 93 | 3.89 | 0.41 | 5.1 |
| 4/19/2015 | 16:57:50 | 58.07 | 53.97 | 79 | 4.04 | 0.41 | 4.3 |
| 4/19/2015 | 16:57:54 | 58.40 | 54.30 | 81 | 3.95 | 0.41 | 4.4 |
| 4/19/2015 | 16:57:59 | 58.73 | 54.63 | 76 | 3.54 | 0.41 | 4.2 |
| 4/19/2015 | 16:58:04 | 59.06 | 54.96 | 75 | 3.57 | 0.41 | 4.1 |
| 4/19/2015 | 16:58:07 | 59.30 | 55.20 | 75 | 3.77 | 0.42 | 4.1 |

## E139 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 16:53:06

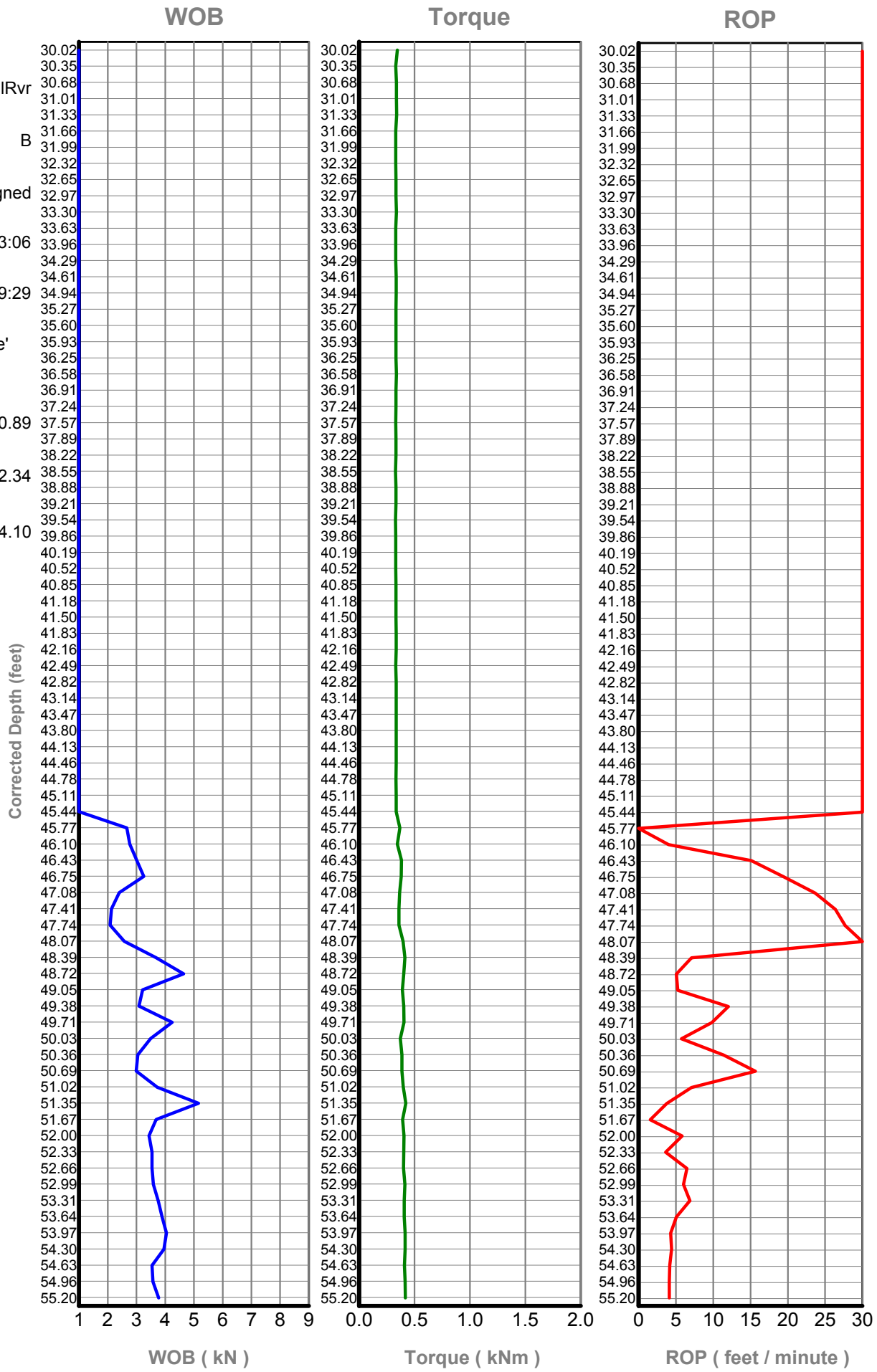
**End Date:**
4/19/2015 16:59:29

**Operator Note:**
'4.1 4.2 b Auto Complete'

**Northing:**
369,060.89

**Easting:**
253,982.34

**Tide (feet):**
4.10



## Hole: E14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:59:09 | 37.73 | 30.13 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 2:59:09 | 38.06 | 30.46 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 2:59:10 | 38.39 | 30.79 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 2:59:10 | 38.71 | 31.11 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 2:59:10 | 39.04 | 31.44 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 2:59:11 | 39.37 | 31.77 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 2:59:11 | 39.70 | 32.10 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 2:59:11 | 40.03 | 32.43 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 2:59:12 | 40.35 | 32.75 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 2:59:12 | 40.68 | 33.08 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 2:59:12 | 41.01 | 33.41 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:59:13 | 41.34 | 33.74 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:59:13 | 41.67 | 34.07 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:59:13 | 41.99 | 34.39 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:59:14 | 42.32 | 34.72 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 2:59:14 | 42.65 | 35.05 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 2:59:14 | 42.98 | 35.38 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:15 | 43.31 | 35.71 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:15 | 43.64 | 36.04 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 2:59:15 | 43.96 | 36.36 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:16 | 44.29 | 36.69 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:16 | 44.62 | 37.02 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:16 | 44.95 | 37.35 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:16 | 45.28 | 37.68 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 2:59:17 | 45.60 | 38.00 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 2:59:17 | 45.93 | 38.33 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 2:59:17 | 46.26 | 38.66 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 2:59:18 | 46.59 | 38.99 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:59:18 | 46.92 | 39.32 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:59:18 | 47.24 | 39.64 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:19 | 47.57 | 39.97 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:19 | 47.90 | 40.30 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 2:59:19 | 48.23 | 40.63 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 2:59:20 | 48.56 | 40.96 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 2:59:21 | 48.88 | 41.28 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 2:59:21 | 49.21 | 41.61 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 2:59:21 | 49.54 | 41.94 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 2:59:22 | 49.87 | 42.27 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 2:59:22 | 50.20 | 42.60 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 2:59:22 | 50.53 | 42.93 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 2:59:23 | 50.85 | 43.25 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 2:59:23 | 51.18 | 43.58 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 2:59:55 | 51.51 | 43.91 | 43 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 3:00:05 | 51.84 | 44.24 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 3:00:07 | 52.17 | 44.57 | 145 | 1.73 | 0.21 | 7.9 |
| 4/21/2015 3:00:08 | 52.49 | 44.89 | 203 | 1.73 | 0.21 | 11.1 |
| 4/21/2015 3:00:11 | 52.82 | 45.22 | 214 | 1.73 | 0.21 | 11.7 |
| 4/21/2015 3:00:40 | 53.15 | 45.55 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 3:00:42 | 53.48 | 45.88 | 177 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 3:00:43 | 53.81 | 46.21 | 304 | 1.73 | 0.21 | 16.6 |
| 4/21/2015 3:00:44 | 54.13 | 46.53 | 287 | 1.73 | 0.21 | 15.7 |
| 4/21/2015 3:00:45 | 54.46 | 46.86 | 281 | 1.73 | 0.21 | 15.3 |
| 4/21/2015 3:00:53 | 54.79 | 47.19 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 3:00:54 | 55.12 | 47.52 | 173 | 1.73 | 0.21 | 9.5 |
| 4/21/2015 3:00:55 | 55.45 | 47.85 | 289 | 1.73 | 0.21 | 15.8 |
| 4/21/2015 3:00:56 | 55.77 | 48.17 | 381 | 1.73 | 0.21 | 20.8 |
| 4/21/2015 3:00:56 | 56.10 | 48.50 | 399 | 1.73 | 0.21 | 21.8 |
| 4/21/2015 3:01:03 | 56.43 | 48.83 | 48 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 3:01:04 | 56.76 | 49.16 | 175 | 1.73 | 0.21 | 9.6 |
| 4/21/2015 3:01:05 | 57.09 | 49.49 | 352 | 1.73 | 0.21 | 19.2 |
| 4/21/2015 3:01:06 | 57.41 | 49.81 | 395 | 1.73 | 0.21 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 3:01:11 | 57.74 | 50.14 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 3:01:12 | 58.07 | 50.47 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 3:01:13 | 58.40 | 50.80 | 150 | 1.73 | 0.21 | 8.2 |
| 4/21/2015 | 3:01:14 | 58.73 | 51.13 | 318 | 1.73 | 0.21 | 17.4 |
| 4/21/2015 | 3:01:15 | 59.06 | 51.46 | 432 | 1.73 | 0.21 | 23.6 |
| 4/21/2015 | 3:01:16 | 59.38 | 51.78 | 440 | 1.73 | 0.21 | 24.0 |
| 4/21/2015 | 3:01:17 | 59.71 | 52.11 | 405 | 1.73 | 0.21 | 22.1 |
| 4/21/2015 | 3:01:22 | 60.04 | 52.44 | 27 | 1.73 | 0.21 | 1.5 |
| 4/21/2015 | 3:01:24 | 60.37 | 52.77 | 195 | 1.73 | 0.21 | 10.7 |
| 4/21/2015 | 3:01:25 | 60.70 | 53.10 | 252 | 1.73 | 0.21 | 13.8 |
| 4/21/2015 | 3:01:26 | 61.02 | 53.42 | 285 | 1.73 | 0.21 | 15.6 |
| 4/21/2015 | 3:01:27 | 61.35 | 53.75 | 268 | 1.73 | 0.21 | 14.7 |
| 4/21/2015 | 3:01:29 | 61.68 | 54.08 | 265 | 1.73 | 0.21 | 14.5 |
| 4/21/2015 | 3:01:31 | 62.01 | 54.41 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 | 3:01:33 | 62.34 | 54.74 | 198 | 1.73 | 0.21 | 10.8 |
| 4/21/2015 | 3:01:34 | 62.50 | 54.90 | 185 | 1.73 | 0.21 | 10.1 |

## E14 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:55:34

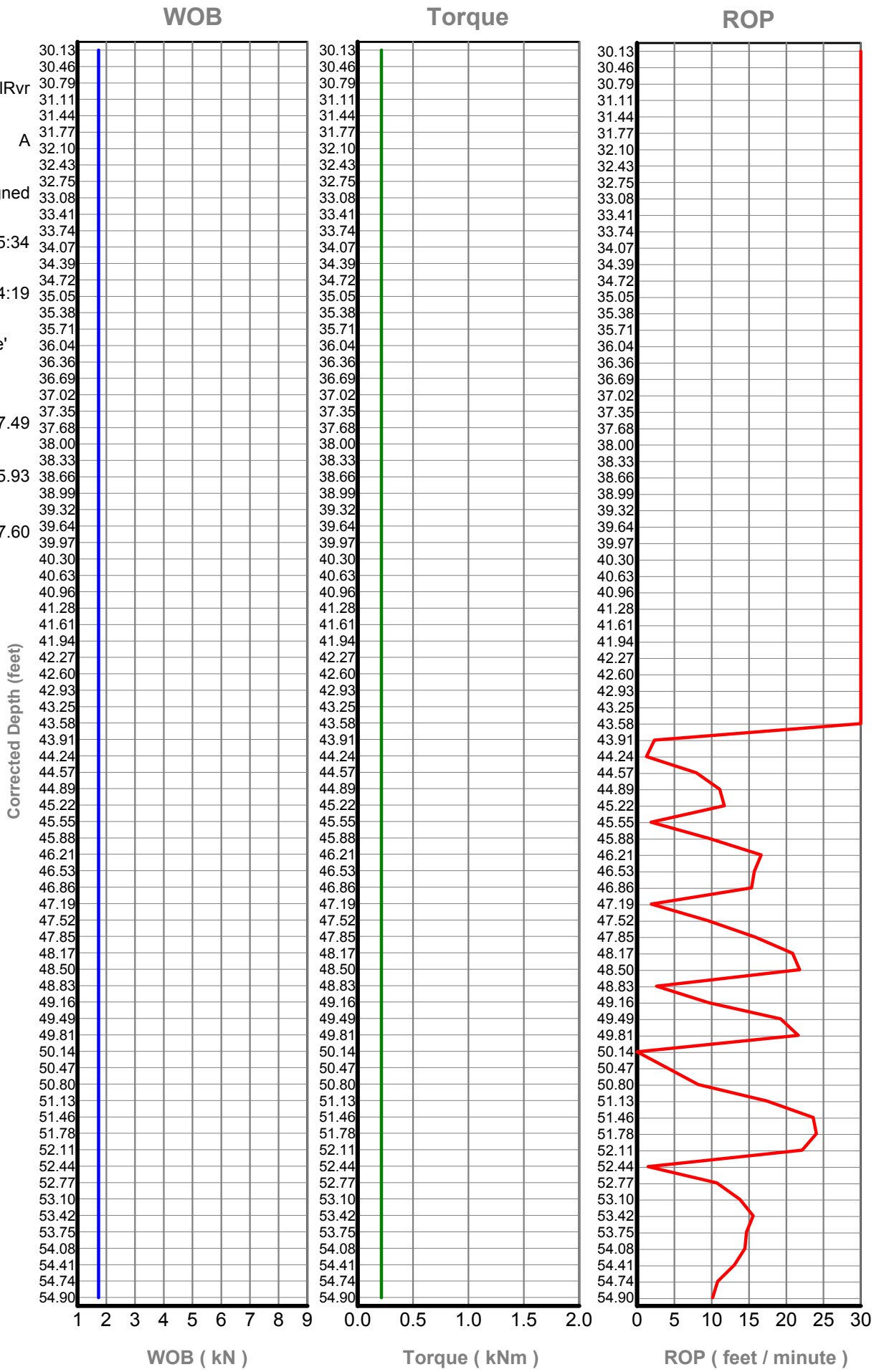
**End Date:**
4/21/2015 3:04:19

**Operator Note:**
'7.6 7.5 b Auto Complete'

**Northing:**
368,787.49

**Easting:**
253,045.93

**Tide (feet):**
7.60



## Hole: E140 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 16:48:10 | 34.45 | 30.15 | 925 | 0.34 | 0.38 | 50.6 |
| 4/19/2015 16:48:10 | 34.78 | 30.48 | 925 | 0.34 | 0.38 | 50.6 |
| 4/19/2015 16:48:11 | 35.11 | 30.81 | 925 | 0.34 | 0.38 | 50.6 |
| 4/19/2015 16:48:11 | 35.43 | 31.13 | 925 | 0.34 | 0.38 | 50.6 |
| 4/19/2015 16:48:22 | 35.76 | 31.46 | 3 | 0.32 | 0.34 | 0.2 |
| 4/19/2015 16:48:22 | 36.09 | 31.79 | 154 | 0.31 | 0.34 | 8.4 |
| 4/19/2015 16:48:23 | 36.42 | 32.12 | 343 | 0.31 | 0.34 | 18.8 |
| 4/19/2015 16:48:23 | 36.75 | 32.45 | 531 | 0.31 | 0.34 | 29.0 |
| 4/19/2015 16:48:24 | 37.07 | 32.77 | 531 | 0.31 | 0.34 | 29.0 |
| 4/19/2015 16:48:24 | 37.40 | 33.10 | 725 | 0.33 | 0.34 | 39.7 |
| 4/19/2015 16:48:25 | 37.73 | 33.43 | 922 | 0.31 | 0.34 | 50.4 |
| 4/19/2015 16:48:25 | 38.06 | 33.76 | 922 | 0.31 | 0.34 | 50.4 |
| 4/19/2015 16:48:25 | 38.39 | 34.09 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 16:48:26 | 38.71 | 34.41 | 971 | 0.31 | 0.33 | 53.1 |
| 4/19/2015 16:48:26 | 39.04 | 34.74 | 971 | 0.31 | 0.33 | 53.1 |
| 4/19/2015 16:48:26 | 39.37 | 35.07 | 971 | 0.31 | 0.33 | 53.1 |
| 4/19/2015 16:48:27 | 39.70 | 35.40 | 968 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 16:48:27 | 40.03 | 35.73 | 966 | 0.31 | 0.34 | 52.8 |
| 4/19/2015 16:48:28 | 40.35 | 36.05 | 966 | 0.31 | 0.34 | 52.8 |
| 4/19/2015 16:48:28 | 40.68 | 36.38 | 963 | 0.31 | 0.34 | 52.6 |
| 4/19/2015 16:48:28 | 41.01 | 36.71 | 948 | 0.31 | 0.34 | 51.8 |
| 4/19/2015 16:48:29 | 41.34 | 37.04 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 16:48:29 | 41.67 | 37.37 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 16:48:29 | 41.99 | 37.69 | 954 | 0.31 | 0.34 | 52.2 |
| 4/19/2015 16:48:30 | 42.32 | 38.02 | 954 | 0.31 | 0.34 | 52.2 |
| 4/19/2015 16:48:30 | 42.65 | 38.35 | 954 | 0.31 | 0.34 | 52.2 |
| 4/19/2015 16:48:30 | 42.98 | 38.68 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 16:48:31 | 43.31 | 39.01 | 972 | 0.32 | 0.34 | 53.1 |
| 4/19/2015 16:48:31 | 43.64 | 39.34 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 16:48:32 | 43.96 | 39.66 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 16:48:32 | 44.29 | 39.99 | 960 | 0.32 | 0.34 | 52.5 |
| 4/19/2015 16:48:32 | 44.62 | 40.32 | 960 | 0.31 | 0.33 | 52.5 |
| 4/19/2015 16:48:33 | 44.95 | 40.65 | 960 | 0.31 | 0.33 | 52.5 |
| 4/19/2015 16:48:33 | 45.28 | 40.98 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 16:48:33 | 45.60 | 41.30 | 960 | 0.31 | 0.34 | 52.5 |
| 4/19/2015 16:48:34 | 45.93 | 41.63 | 963 | 0.31 | 0.33 | 52.7 |
| 4/19/2015 16:48:35 | 46.26 | 41.96 | 963 | 0.31 | 0.33 | 52.7 |
| 4/19/2015 16:48:34 | 46.59 | 42.29 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:48:35 | 46.92 | 42.62 | 977 | 0.32 | 0.34 | 53.4 |
| 4/19/2015 16:48:36 | 47.24 | 42.94 | 977 | 0.32 | 0.34 | 53.4 |
| 4/19/2015 16:48:36 | 47.57 | 43.27 | 980 | 0.31 | 0.34 | 53.6 |
| 4/19/2015 16:48:36 | 47.90 | 43.60 | 974 | 0.31 | 0.34 | 53.3 |
| 4/19/2015 16:48:37 | 48.23 | 43.93 | 974 | 0.31 | 0.34 | 53.3 |
| 4/19/2015 16:48:37 | 48.56 | 44.26 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 16:48:37 | 48.88 | 44.58 | 969 | 0.31 | 0.34 | 53.0 |
| 4/19/2015 16:48:38 | 49.21 | 44.91 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 16:48:38 | 49.54 | 45.24 | 957 | 0.31 | 0.34 | 52.3 |
| 4/19/2015 16:48:48 | 49.87 | 45.57 | 0 | 2.63 | 0.35 | 0.0 |
| 4/19/2015 16:48:50 | 50.20 | 45.90 | 128 | 4.45 | 0.40 | 7.0 |
| 4/19/2015 16:48:53 | 50.53 | 46.23 | 159 | 4.93 | 0.41 | 8.7 |
| 4/19/2015 16:48:54 | 50.85 | 46.55 | 162 | 3.42 | 0.38 | 8.8 |
| 4/19/2015 16:48:56 | 51.18 | 46.88 | 208 | 5.12 | 0.41 | 11.4 |
| 4/19/2015 16:48:57 | 51.51 | 47.21 | 266 | 2.66 | 0.38 | 14.6 |
| 4/19/2015 16:48:58 | 51.84 | 47.54 | 311 | 2.44 | 0.38 | 17.0 |
| 4/19/2015 16:48:59 | 52.17 | 47.87 | 408 | 2.31 | 0.36 | 22.3 |
| 4/19/2015 16:48:59 | 52.49 | 48.19 | 408 | 2.25 | 0.37 | 22.3 |
| 4/19/2015 16:49:00 | 52.82 | 48.52 | 496 | 2.40 | 0.37 | 27.1 |
| 4/19/2015 16:49:00 | 53.15 | 48.85 | 534 | 2.61 | 0.37 | 29.2 |
| 4/19/2015 16:49:03 | 53.48 | 49.18 | 200 | 3.49 | 0.41 | 10.9 |
| 4/19/2015 16:49:22 | 53.81 | 49.51 | 47 | 3.59 | 0.38 | 2.6 |
| 4/19/2015 16:49:23 | 54.13 | 49.83 | 193 | 2.33 | 0.36 | 10.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 16:49:24 | 54.46 | 50.16 | 322 | 2.02 | 0.35 | 17.6 |
| 4/19/2015 | 16:49:24 | 54.79 | 50.49 | 459 | 2.16 | 0.36 | 25.1 |
| 4/19/2015 | 16:49:25 | 55.12 | 50.82 | 541 | 2.58 | 0.39 | 29.6 |
| 4/19/2015 | 16:49:27 | 55.45 | 51.15 | 402 | 3.20 | 0.38 | 22.0 |
| 4/19/2015 | 16:49:28 | 55.77 | 51.47 | 354 | 2.78 | 0.37 | 19.3 |
| 4/19/2015 | 16:49:29 | 56.10 | 51.80 | 339 | 2.58 | 0.38 | 18.5 |
| 4/19/2015 | 16:49:30 | 56.43 | 52.13 | 339 | 2.52 | 0.40 | 18.5 |
| 4/19/2015 | 16:49:35 | 56.76 | 52.46 | 75 | 3.10 | 0.41 | 4.1 |
| 4/19/2015 | 16:49:40 | 57.09 | 52.79 | 73 | 2.95 | 0.41 | 4.0 |
| 4/19/2015 | 16:49:45 | 57.41 | 53.11 | 67 | 2.87 | 0.40 | 3.6 |
| 4/19/2015 | 16:49:51 | 57.74 | 53.44 | 63 | 2.86 | 0.40 | 3.5 |
| 4/19/2015 | 16:49:55 | 58.07 | 53.77 | 61 | 3.16 | 0.40 | 3.3 |
| 4/19/2015 | 16:49:57 | 58.40 | 54.10 | 151 | 3.63 | 0.40 | 8.2 |
| 4/19/2015 | 16:50:01 | 58.73 | 54.43 | 75 | 3.47 | 0.41 | 4.1 |
| 4/19/2015 | 16:50:06 | 59.06 | 54.76 | 69 | 3.22 | 0.41 | 3.8 |
| 4/19/2015 | 16:50:08 | 59.20 | 54.90 | 61 | 3.29 | 0.41 | 3.3 |

## E140 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 16:46:14

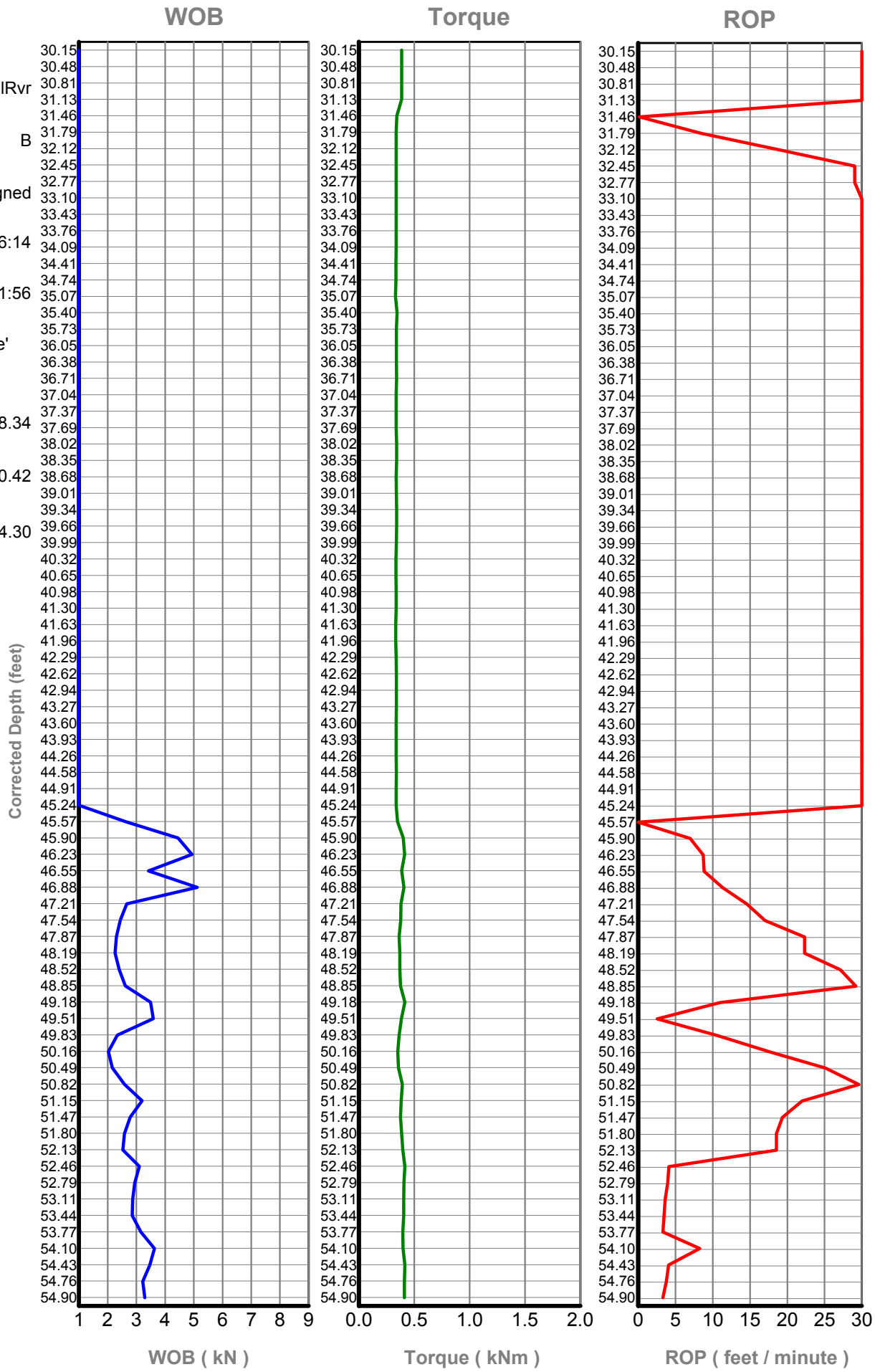
**End Date:**
4/19/2015 16:51:56

**Operator Note:**
'4.3 4.2 b Auto Complete'

**Northing:**
369,108.34

**Easting:**
254,040.42

**Tide (feet):**
4.30



## Hole: E141 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:46:05 | 36.75 | 30.15 | 998 | 0.42 | 0.35 | 54.6 |
| 4/22/2015 2:46:05 | 37.07 | 30.47 | 964 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 2:46:05 | 37.40 | 30.80 | 989 | 0.30 | 0.33 | 54.1 |
| 4/22/2015 2:46:06 | 37.73 | 31.13 | 989 | 0.30 | 0.33 | 54.1 |
| 4/22/2015 2:46:06 | 38.06 | 31.46 | 989 | 0.30 | 0.32 | 54.1 |
| 4/22/2015 2:46:07 | 38.39 | 31.79 | 987 | 0.30 | 0.32 | 54.0 |
| 4/22/2015 2:46:07 | 38.71 | 32.11 | 987 | 0.30 | 0.32 | 54.0 |
| 4/22/2015 2:46:07 | 39.04 | 32.44 | 987 | 0.31 | 0.32 | 54.0 |
| 4/22/2015 2:46:08 | 39.37 | 32.77 | 1,005 | 0.30 | 0.32 | 55.0 |
| 4/22/2015 2:46:08 | 39.70 | 33.10 | 1,005 | 0.30 | 0.32 | 55.0 |
| 4/22/2015 2:46:08 | 40.03 | 33.43 | 1,005 | 0.30 | 0.32 | 55.0 |
| 4/22/2015 2:46:09 | 40.35 | 33.75 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:46:09 | 40.68 | 34.08 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:46:09 | 41.01 | 34.41 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:46:10 | 41.34 | 34.74 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/22/2015 2:46:10 | 41.67 | 35.07 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/22/2015 2:46:10 | 41.99 | 35.39 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/22/2015 2:46:11 | 42.32 | 35.72 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/22/2015 2:46:11 | 42.65 | 36.05 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/22/2015 2:46:11 | 42.98 | 36.38 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/22/2015 2:46:12 | 43.31 | 36.71 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/22/2015 2:46:12 | 43.64 | 37.04 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/22/2015 2:46:12 | 43.96 | 37.36 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:46:13 | 44.29 | 37.69 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:46:13 | 44.62 | 38.02 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:46:13 | 44.95 | 38.35 | 1,036 | 0.27 | 0.32 | 56.7 |
| 4/22/2015 2:46:14 | 45.28 | 38.68 | 1,036 | 0.27 | 0.32 | 56.7 |
| 4/22/2015 2:46:14 | 45.60 | 39.00 | 1,039 | 0.22 | 0.32 | 56.8 |
| 4/22/2015 2:47:31 | 45.93 | 39.33 | 0 | 0.18 | 0.32 | 0.0 |
| 4/22/2015 2:47:32 | 46.26 | 39.66 | 143 | 0.17 | 0.33 | 7.8 |
| 4/22/2015 2:47:32 | 46.59 | 39.99 | 143 | 0.17 | 0.33 | 7.8 |
| 4/22/2015 2:47:32 | 46.92 | 40.32 | 352 | 0.17 | 0.32 | 19.2 |
| 4/22/2015 2:47:33 | 47.24 | 40.64 | 531 | 0.17 | 0.33 | 29.0 |
| 4/22/2015 2:47:33 | 47.57 | 40.97 | 531 | 0.17 | 0.33 | 29.0 |
| 4/22/2015 2:47:33 | 47.90 | 41.30 | 737 | 0.18 | 0.32 | 40.3 |
| 4/22/2015 2:47:34 | 48.23 | 41.63 | 737 | 0.17 | 0.32 | 40.3 |
| 4/22/2015 2:47:34 | 48.56 | 41.96 | 737 | 0.17 | 0.32 | 40.3 |
| 4/22/2015 2:47:34 | 48.88 | 42.28 | 931 | 0.17 | 0.32 | 50.9 |
| 4/22/2015 2:47:35 | 49.21 | 42.61 | 991 | 0.16 | 0.32 | 54.2 |
| 4/22/2015 2:47:35 | 49.54 | 42.94 | 991 | 0.16 | 0.32 | 54.2 |
| 4/22/2015 2:47:35 | 49.87 | 43.27 | 991 | 0.19 | 0.32 | 54.2 |
| 4/22/2015 2:47:36 | 50.20 | 43.60 | 988 | 0.17 | 0.32 | 54.0 |
| 4/22/2015 2:47:36 | 50.53 | 43.93 | 988 | 0.17 | 0.32 | 54.0 |
| 4/22/2015 2:47:36 | 50.85 | 44.25 | 988 | 0.17 | 0.32 | 54.0 |
| 4/22/2015 2:47:37 | 51.18 | 44.58 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/22/2015 2:47:37 | 51.51 | 44.91 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/22/2015 2:47:37 | 51.84 | 45.24 | 1,029 | 0.17 | 0.33 | 56.3 |
| 4/22/2015 2:47:38 | 52.17 | 45.57 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/22/2015 2:47:38 | 52.49 | 45.89 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/22/2015 2:47:38 | 52.82 | 46.22 | 1,040 | 0.17 | 0.32 | 56.9 |
| 4/22/2015 2:47:39 | 53.15 | 46.55 | 1,009 | 0.17 | 0.32 | 55.2 |
| 4/22/2015 2:47:39 | 53.48 | 46.88 | 1,009 | 0.17 | 0.32 | 55.2 |
| 4/22/2015 2:47:40 | 53.81 | 47.21 | 1,009 | 0.18 | 0.33 | 55.2 |
| 4/22/2015 2:47:40 | 54.13 | 47.53 | 996 | 0.16 | 0.32 | 54.5 |
| 4/22/2015 2:47:41 | 54.46 | 47.86 | 976 | 0.17 | 0.32 | 53.4 |
| 4/22/2015 2:47:41 | 54.79 | 48.19 | 976 | 0.17 | 0.32 | 53.4 |
| 4/22/2015 2:47:41 | 55.12 | 48.52 | 991 | 0.17 | 0.32 | 54.2 |
| 4/22/2015 2:47:42 | 55.45 | 48.85 | 991 | 0.17 | 0.32 | 54.2 |
| 4/22/2015 2:47:42 | 55.77 | 49.17 | 991 | 0.17 | 0.32 | 54.2 |
| 4/22/2015 2:47:42 | 56.10 | 49.50 | 995 | 0.19 | 0.32 | 54.4 |
| 4/22/2015 2:47:43 | 56.43 | 49.83 | 1,018 | 0.17 | 0.34 | 55.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:47:43 | 56.76 | 50.16 | 1,018 | 0.17 | 0.34 | 55.7 |
| 4/22/2015 | 2:47:43 | 57.09 | 50.49 | 988 | 0.16 | 0.34 | 54.0 |
| 4/22/2015 | 2:47:44 | 57.41 | 50.81 | 960 | 0.16 | 0.34 | 52.5 |
| 4/22/2015 | 2:47:44 | 57.74 | 51.14 | 906 | 0.16 | 0.34 | 49.5 |
| 4/22/2015 | 2:47:45 | 58.07 | 51.47 | 847 | 0.16 | 0.34 | 46.3 |
| 4/22/2015 | 2:47:45 | 58.40 | 51.80 | 808 | 0.16 | 0.34 | 44.2 |
| 4/22/2015 | 2:47:46 | 58.73 | 52.13 | 795 | 0.16 | 0.35 | 43.5 |
| 4/22/2015 | 2:47:46 | 59.06 | 52.46 | 776 | 0.16 | 0.34 | 42.4 |
| 4/22/2015 | 2:47:47 | 59.38 | 52.78 | 776 | 0.16 | 0.34 | 42.4 |
| 4/22/2015 | 2:47:47 | 59.71 | 53.11 | 778 | 0.16 | 0.35 | 42.6 |
| 4/22/2015 | 2:47:47 | 60.04 | 53.44 | 775 | 0.16 | 0.35 | 42.4 |
| 4/22/2015 | 2:47:48 | 60.37 | 53.77 | 770 | 0.16 | 0.35 | 42.1 |
| 4/22/2015 | 2:47:48 | 60.70 | 54.10 | 752 | 0.16 | 0.35 | 41.1 |
| 4/22/2015 | 2:47:49 | 61.02 | 54.42 | 735 | 0.16 | 0.36 | 40.2 |
| 4/22/2015 | 2:47:49 | 61.35 | 54.75 | 701 | 0.16 | 0.35 | 38.3 |
| 4/22/2015 | 2:47:50 | 61.68 | 55.08 | 645 | 0.16 | 0.36 | 35.3 |
| 4/22/2015 | 2:47:51 | 62.01 | 55.41 | 624 | 0.16 | 0.36 | 34.1 |
| 4/22/2015 | 2:47:52 | 62.34 | 55.74 | 617 | 0.14 | 0.34 | 33.7 |

## E141 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/22/2015 2:44:32

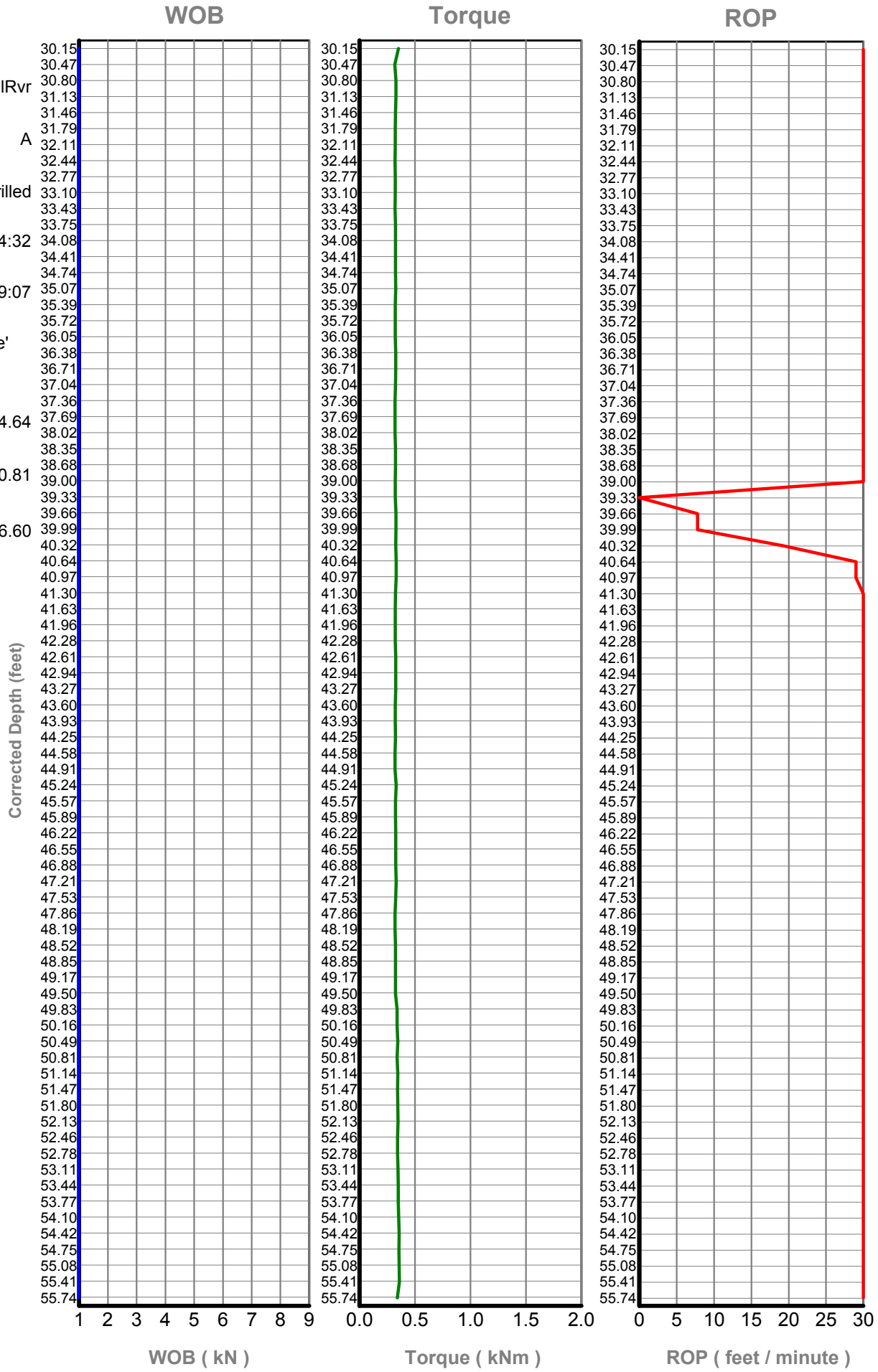
**End Date:**
4/22/2015 2:49:07

**Operator Note:**
'6.6 6.5 b Auto Complete'

**Northing:**
368,004.64

**Easting:**
252,800.81

**Tide (feet):**
6.60



## Hole: E142 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:38:31 | 36.75 | 30.25 | 1,388 | 3.25 | 0.16 | 75.9 |
| 4/22/2015 2:38:32 | 37.07 | 30.57 | 1,411 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 2:38:32 | 37.40 | 30.90 | 1,411 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 2:38:32 | 37.73 | 31.23 | 1,399 | 3.21 | 0.16 | 76.5 |
| 4/22/2015 2:38:32 | 38.06 | 31.56 | 1,399 | 3.21 | 0.16 | 76.5 |
| 4/22/2015 2:38:33 | 38.39 | 31.89 | 1,394 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:38:33 | 38.71 | 32.21 | 1,394 | 3.22 | 0.16 | 76.2 |
| 4/22/2015 2:38:33 | 39.04 | 32.54 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 2:38:33 | 39.37 | 32.87 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 2:38:34 | 39.70 | 33.20 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 2:38:34 | 40.03 | 33.53 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 2:38:34 | 40.35 | 33.85 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 2:38:35 | 40.68 | 34.18 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 2:38:35 | 41.01 | 34.51 | 1,380 | 3.24 | 0.16 | 75.5 |
| 4/22/2015 2:38:35 | 41.34 | 34.84 | 1,380 | 3.24 | 0.16 | 75.5 |
| 4/22/2015 2:38:35 | 41.67 | 35.17 | 1,397 | 3.24 | 0.15 | 76.4 |
| 4/22/2015 2:38:36 | 41.99 | 35.49 | 1,397 | 3.24 | 0.15 | 76.4 |
| 4/22/2015 2:38:36 | 42.32 | 35.82 | 1,415 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 2:38:36 | 42.65 | 36.15 | 1,415 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 2:38:36 | 42.98 | 36.48 | 1,409 | 3.23 | 0.16 | 77.1 |
| 4/22/2015 2:38:37 | 43.31 | 36.81 | 1,409 | 3.23 | 0.16 | 77.1 |
| 4/22/2015 2:38:37 | 43.64 | 37.14 | 1,406 | 3.22 | 0.16 | 76.9 |
| 4/22/2015 2:38:37 | 43.96 | 37.46 | 1,406 | 3.22 | 0.16 | 76.9 |
| 4/22/2015 2:38:37 | 44.29 | 37.79 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 2:38:38 | 44.62 | 38.12 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 2:38:38 | 44.95 | 38.45 | 1,420 | 3.20 | 0.15 | 77.7 |
| 4/22/2015 2:38:38 | 45.28 | 38.78 | 1,420 | 3.20 | 0.15 | 77.7 |
| 4/22/2015 2:38:38 | 45.60 | 39.10 | 1,405 | 3.21 | 0.17 | 76.8 |
| 4/22/2015 2:38:39 | 45.93 | 39.43 | 1,405 | 3.21 | 0.17 | 76.8 |
| 4/22/2015 2:38:39 | 46.26 | 39.76 | 1,402 | 3.24 | 0.16 | 76.7 |
| 4/22/2015 2:38:39 | 46.59 | 40.09 | 1,402 | 3.24 | 0.16 | 76.7 |
| 4/22/2015 2:38:39 | 46.92 | 40.42 | 1,396 | 3.22 | 0.15 | 76.4 |
| 4/22/2015 2:38:40 | 47.24 | 40.74 | 1,396 | 3.22 | 0.15 | 76.4 |
| 4/22/2015 2:38:40 | 47.57 | 41.07 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 2:38:40 | 47.90 | 41.40 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 2:38:40 | 48.23 | 41.73 | 1,402 | 3.24 | 0.16 | 76.7 |
| 4/22/2015 2:38:41 | 48.56 | 42.06 | 1,402 | 3.24 | 0.16 | 76.7 |
| 4/22/2015 2:38:41 | 48.88 | 42.38 | 1,402 | 3.24 | 0.15 | 76.7 |
| 4/22/2015 2:38:41 | 49.21 | 42.71 | 1,402 | 3.24 | 0.15 | 76.7 |
| 4/22/2015 2:38:42 | 49.54 | 43.04 | 1,402 | 3.24 | 0.15 | 76.7 |
| 4/22/2015 2:38:42 | 49.87 | 43.37 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 2:38:42 | 50.20 | 43.70 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 2:38:42 | 50.53 | 44.03 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 2:38:42 | 50.85 | 44.35 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 2:38:43 | 51.18 | 44.68 | 1,405 | 3.22 | 0.16 | 76.8 |
| 4/22/2015 2:38:43 | 51.51 | 45.01 | 1,405 | 3.22 | 0.16 | 76.8 |
| 4/22/2015 2:38:43 | 51.84 | 45.34 | 1,405 | 3.23 | 0.15 | 76.8 |
| 4/22/2015 2:38:43 | 52.17 | 45.67 | 1,405 | 3.23 | 0.15 | 76.8 |
| 4/22/2015 2:38:44 | 52.49 | 45.99 | 1,397 | 3.23 | 0.15 | 76.4 |
| 4/22/2015 2:38:44 | 52.82 | 46.32 | 1,397 | 3.23 | 0.15 | 76.4 |
| 4/22/2015 2:38:44 | 53.15 | 46.65 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 2:38:44 | 53.48 | 46.98 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 2:38:45 | 53.81 | 47.31 | 1,405 | 3.22 | 0.16 | 76.8 |
| 4/22/2015 2:38:45 | 54.13 | 47.63 | 1,405 | 3.22 | 0.16 | 76.8 |
| 4/22/2015 2:38:45 | 54.46 | 47.96 | 1,402 | 3.22 | 0.15 | 76.7 |
| 4/22/2015 2:38:45 | 54.79 | 48.29 | 1,402 | 3.22 | 0.15 | 76.7 |
| 4/22/2015 2:38:46 | 55.12 | 48.62 | 1,402 | 3.23 | 0.16 | 76.7 |
| 4/22/2015 2:38:46 | 55.45 | 48.95 | 1,402 | 3.23 | 0.16 | 76.7 |
| 4/22/2015 2:38:46 | 55.77 | 49.27 | 1,402 | 3.23 | 0.16 | 76.7 |
| 4/22/2015 2:38:47 | 56.10 | 49.60 | 1,402 | 3.23 | 0.16 | 76.7 |
| 4/22/2015 2:38:47 | 56.43 | 49.93 | 1,396 | 3.22 | 0.15 | 76.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:38:47 | 56.76 | 50.26 | 1,396 | 3.22 | 0.15 | 76.3 |
| 4/22/2015 | 2:38:47 | 57.09 | 50.59 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 | 2:38:48 | 57.41 | 50.91 | 1,390 | 3.22 | 0.16 | 76.0 |
| 4/22/2015 | 2:38:48 | 57.74 | 51.24 | 1,382 | 3.24 | 0.16 | 75.6 |
| 4/22/2015 | 2:38:48 | 58.07 | 51.57 | 1,382 | 3.24 | 0.16 | 75.6 |
| 4/22/2015 | 2:38:49 | 58.40 | 51.90 | 1,374 | 3.24 | 0.15 | 75.2 |
| 4/22/2015 | 2:38:49 | 58.73 | 52.23 | 1,374 | 3.24 | 0.15 | 75.2 |
| 4/22/2015 | 2:38:49 | 59.06 | 52.56 | 1,382 | 3.24 | 0.15 | 75.6 |
| 4/22/2015 | 2:38:50 | 59.38 | 52.88 | 1,382 | 3.24 | 0.15 | 75.6 |
| 4/22/2015 | 2:38:50 | 59.71 | 53.21 | 1,353 | 3.27 | 0.16 | 74.0 |
| 4/22/2015 | 2:38:50 | 60.04 | 53.54 | 1,353 | 3.27 | 0.16 | 74.0 |
| 4/22/2015 | 2:38:50 | 60.37 | 53.87 | 1,316 | 3.28 | 0.16 | 72.0 |
| 4/22/2015 | 2:38:51 | 60.70 | 54.20 | 1,277 | 3.27 | 0.16 | 69.8 |
| 4/22/2015 | 2:38:51 | 61.02 | 54.52 | 1,277 | 3.27 | 0.16 | 69.8 |
| 4/22/2015 | 2:38:51 | 61.35 | 54.85 | 1,221 | 3.28 | 0.16 | 66.8 |
| 4/22/2015 | 2:38:52 | 61.68 | 55.18 | 1,221 | 3.28 | 0.16 | 66.8 |
| 4/22/2015 | 2:38:52 | 62.01 | 55.51 | 1,221 | 3.26 | 0.16 | 66.8 |
| 4/22/2015 | 2:38:52 | 62.34 | 55.84 | 1,158 | 3.29 | 0.16 | 63.3 |
| 4/22/2015 | 2:38:53 | 62.66 | 56.16 | 1,158 | 3.29 | 0.16 | 63.3 |
| 4/22/2015 | 2:38:53 | 62.86 | 56.36 | 1,123 | 3.00 | 0.16 | 61.4 |

## E142 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:36:47

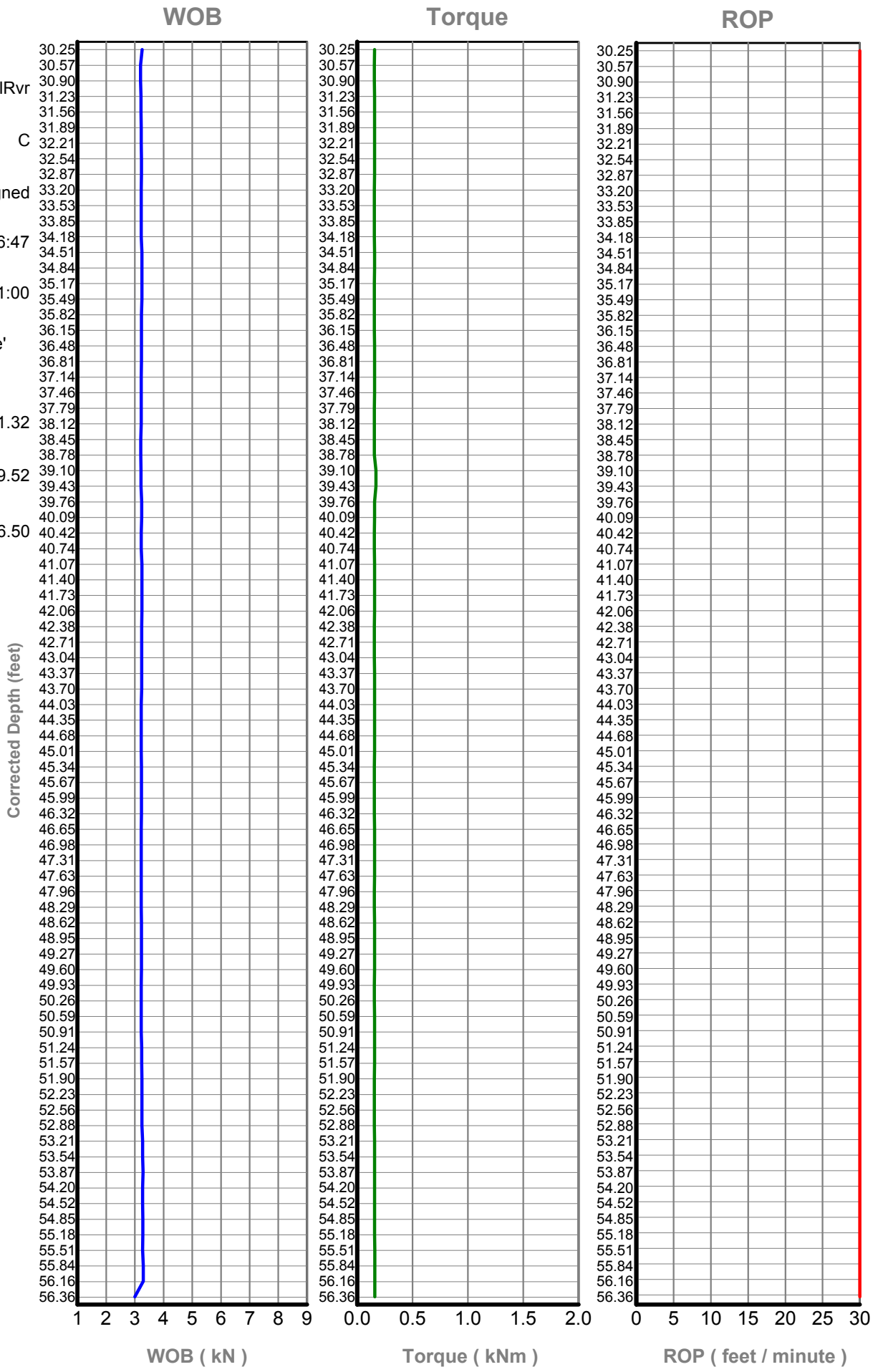
**End Date:**
4/22/2015 2:41:00

**Operator Note:**
'6.5 6.3 c Auto Complete'

**Northing:**
368,051.32

**Easting:**
252,859.52

**Tide (feet):**
6.50



## Hole: E143 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:56:10 | 30.84 | 30.04 | 959 | 0.35 | 0.32 | 52.5 |
| 4/21/2015 21:56:10 | 31.17 | 30.37 | 956 | 0.35 | 0.32 | 52.3 |
| 4/21/2015 21:56:10 | 31.50 | 30.70 | 923 | 0.36 | 0.33 | 50.5 |
| 4/21/2015 21:56:11 | 31.82 | 31.02 | 923 | 0.36 | 0.33 | 50.5 |
| 4/21/2015 21:56:11 | 32.15 | 31.35 | 923 | 0.32 | 0.31 | 50.5 |
| 4/21/2015 21:56:11 | 32.48 | 31.68 | 936 | 0.31 | 0.32 | 51.2 |
| 4/21/2015 21:56:12 | 32.81 | 32.01 | 952 | 0.29 | 0.40 | 52.1 |
| 4/21/2015 21:56:17 | 33.14 | 32.34 | 114 | 0.31 | 0.31 | 6.3 |
| 4/21/2015 21:56:17 | 33.46 | 32.66 | 114 | 0.31 | 0.31 | 6.3 |
| 4/21/2015 21:56:17 | 33.79 | 32.99 | 314 | 0.31 | 0.31 | 17.2 |
| 4/21/2015 21:56:18 | 34.12 | 33.32 | 514 | 0.31 | 0.32 | 28.1 |
| 4/21/2015 21:56:18 | 34.45 | 33.65 | 514 | 0.31 | 0.32 | 28.1 |
| 4/21/2015 21:56:18 | 34.78 | 33.98 | 706 | 0.30 | 0.31 | 38.6 |
| 4/21/2015 21:56:19 | 35.11 | 34.31 | 900 | 0.29 | 0.31 | 49.2 |
| 4/21/2015 21:56:19 | 35.43 | 34.63 | 900 | 0.29 | 0.31 | 49.2 |
| 4/21/2015 21:56:19 | 35.76 | 34.96 | 986 | 0.35 | 0.31 | 53.9 |
| 4/21/2015 21:56:20 | 36.09 | 35.29 | 980 | 0.27 | 0.31 | 53.6 |
| 4/21/2015 21:56:20 | 36.42 | 35.62 | 980 | 0.27 | 0.31 | 53.6 |
| 4/21/2015 21:56:20 | 36.75 | 35.95 | 980 | 0.30 | 0.32 | 53.6 |
| 4/21/2015 21:56:21 | 37.07 | 36.27 | 977 | 0.30 | 0.32 | 53.4 |
| 4/21/2015 21:56:21 | 37.40 | 36.60 | 980 | 0.30 | 0.31 | 53.6 |
| 4/21/2015 21:56:22 | 37.73 | 36.93 | 980 | 0.30 | 0.31 | 53.6 |
| 4/21/2015 21:56:22 | 38.06 | 37.26 | 980 | 0.30 | 0.31 | 53.6 |
| 4/21/2015 21:56:23 | 38.39 | 37.59 | 977 | 0.31 | 0.31 | 53.4 |
| 4/21/2015 21:56:23 | 38.71 | 37.91 | 977 | 0.31 | 0.31 | 53.4 |
| 4/21/2015 21:56:23 | 39.04 | 38.24 | 974 | 0.30 | 0.31 | 53.3 |
| 4/21/2015 21:56:24 | 39.37 | 38.57 | 984 | 0.30 | 0.32 | 53.8 |
| 4/21/2015 21:56:24 | 39.70 | 38.90 | 984 | 0.30 | 0.32 | 53.8 |
| 4/21/2015 21:56:24 | 40.03 | 39.23 | 989 | 0.30 | 0.31 | 54.1 |
| 4/21/2015 21:56:25 | 40.35 | 39.55 | 986 | 0.29 | 0.32 | 53.9 |
| 4/21/2015 21:56:25 | 40.68 | 39.88 | 986 | 0.31 | 0.32 | 53.9 |
| 4/21/2015 21:56:26 | 41.01 | 40.21 | 986 | 0.31 | 0.32 | 53.9 |
| 4/21/2015 21:56:26 | 41.34 | 40.54 | 989 | 0.32 | 0.31 | 54.1 |
| 4/21/2015 21:56:26 | 41.67 | 40.87 | 977 | 0.30 | 0.32 | 53.4 |
| 4/21/2015 21:56:27 | 41.99 | 41.19 | 977 | 0.30 | 0.32 | 53.4 |
| 4/21/2015 21:56:27 | 42.32 | 41.52 | 977 | 0.31 | 0.31 | 53.4 |
| 4/21/2015 21:56:27 | 42.65 | 41.85 | 977 | 0.30 | 0.31 | 53.4 |
| 4/21/2015 21:56:28 | 42.98 | 42.18 | 977 | 0.30 | 0.31 | 53.4 |
| 4/21/2015 21:56:28 | 43.31 | 42.51 | 986 | 0.30 | 0.31 | 53.9 |
| 4/21/2015 21:56:28 | 43.64 | 42.84 | 989 | 0.30 | 0.31 | 54.1 |
| 4/21/2015 21:56:29 | 43.96 | 43.16 | 989 | 0.30 | 0.31 | 54.1 |
| 4/21/2015 21:56:29 | 44.29 | 43.49 | 995 | 0.31 | 0.31 | 54.4 |
| 4/21/2015 21:56:29 | 44.62 | 43.82 | 997 | 0.30 | 0.31 | 54.5 |
| 4/21/2015 21:56:30 | 44.95 | 44.15 | 1,000 | 0.31 | 0.31 | 54.7 |
| 4/21/2015 21:56:30 | 45.28 | 44.48 | 1,000 | 0.31 | 0.31 | 54.7 |
| 4/21/2015 21:56:30 | 45.60 | 44.80 | 994 | 0.30 | 0.32 | 54.4 |
| 4/21/2015 21:56:31 | 45.93 | 45.13 | 989 | 0.30 | 0.31 | 54.1 |
| 4/21/2015 21:56:31 | 46.26 | 45.46 | 989 | 0.30 | 0.31 | 54.1 |
| 4/21/2015 21:56:31 | 46.59 | 45.79 | 980 | 0.30 | 0.31 | 53.6 |
| 4/21/2015 21:56:32 | 46.92 | 46.12 | 986 | 0.27 | 0.31 | 53.9 |
| 4/21/2015 21:56:32 | 47.24 | 46.44 | 986 | 0.27 | 0.31 | 53.9 |
| 4/21/2015 21:56:32 | 47.57 | 46.77 | 986 | 0.30 | 0.31 | 53.9 |
| 4/21/2015 21:56:33 | 47.90 | 47.10 | 989 | 0.31 | 0.31 | 54.1 |
| 4/21/2015 21:56:34 | 48.23 | 47.43 | 989 | 0.31 | 0.31 | 54.1 |
| 4/21/2015 21:56:34 | 48.56 | 47.76 | 994 | 0.31 | 0.31 | 54.4 |
| 4/21/2015 21:56:34 | 48.88 | 48.08 | 997 | 0.31 | 0.31 | 54.5 |
| 4/21/2015 21:56:35 | 49.21 | 48.41 | 994 | 0.30 | 0.31 | 54.4 |
| 4/21/2015 21:56:35 | 49.54 | 48.74 | 994 | 0.30 | 0.31 | 54.4 |
| 4/21/2015 21:56:35 | 49.87 | 49.07 | 995 | 0.30 | 0.31 | 54.4 |
| 4/21/2015 21:56:36 | 50.20 | 49.40 | 983 | 0.31 | 0.32 | 53.7 |
| 4/21/2015 21:56:36 | 50.53 | 49.73 | 983 | 0.31 | 0.32 | 53.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:56:36 | 50.85 | 50.05 | 992 | 0.31 | 0.31 | 54.2 |
| 4/21/2015 | 21:56:37 | 51.18 | 50.38 | 998 | 0.31 | 0.31 | 54.6 |
| 4/21/2015 | 21:56:37 | 51.51 | 50.71 | 998 | 0.31 | 0.31 | 54.6 |
| 4/21/2015 | 21:56:37 | 51.84 | 51.04 | 995 | 0.30 | 0.32 | 54.4 |
| 4/21/2015 | 21:56:38 | 52.17 | 51.37 | 994 | 0.31 | 0.31 | 54.4 |
| 4/21/2015 | 21:56:38 | 52.49 | 51.69 | 994 | 0.31 | 0.31 | 54.4 |
| 4/21/2015 | 21:56:38 | 52.82 | 52.02 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/21/2015 | 21:56:39 | 53.15 | 52.35 | 997 | 0.30 | 0.32 | 54.5 |
| 4/21/2015 | 21:56:39 | 53.48 | 52.68 | 968 | 0.30 | 0.33 | 52.9 |
| 4/21/2015 | 21:56:40 | 53.81 | 53.01 | 932 | 0.30 | 0.33 | 50.9 |
| 4/21/2015 | 21:56:40 | 54.13 | 53.33 | 932 | 0.30 | 0.33 | 50.9 |
| 4/21/2015 | 21:56:40 | 54.46 | 53.66 | 890 | 0.30 | 0.34 | 48.7 |
| 4/21/2015 | 21:56:41 | 54.79 | 53.99 | 890 | 0.31 | 0.33 | 48.7 |
| 4/21/2015 | 21:56:41 | 55.12 | 54.32 | 847 | 0.30 | 0.34 | 46.3 |
| 4/21/2015 | 21:56:42 | 55.45 | 54.65 | 797 | 0.30 | 0.34 | 43.6 |
| 4/21/2015 | 21:56:42 | 55.77 | 54.97 | 778 | 0.30 | 0.34 | 42.6 |
| 4/21/2015 | 21:56:43 | 56.10 | 55.30 | 760 | 0.29 | 0.34 | 41.6 |
| 4/21/2015 | 21:56:44 | 56.43 | 55.63 | 749 | 0.29 | 0.34 | 41.0 |
| 4/21/2015 | 21:56:44 | 56.76 | 55.96 | 719 | 0.30 | 0.35 | 39.3 |
| 4/21/2015 | 21:56:45 | 57.09 | 56.29 | 710 | 0.29 | 0.35 | 38.8 |
| 4/21/2015 | 21:56:45 | 57.41 | 56.61 | 674 | 0.30 | 0.35 | 36.9 |
| 4/21/2015 | 21:56:46 | 57.74 | 56.94 | 674 | 0.29 | 0.35 | 36.9 |
| 4/21/2015 | 21:56:46 | 57.86 | 57.06 | 674 | 0.29 | 0.35 | 36.9 |

## E143 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:53:32

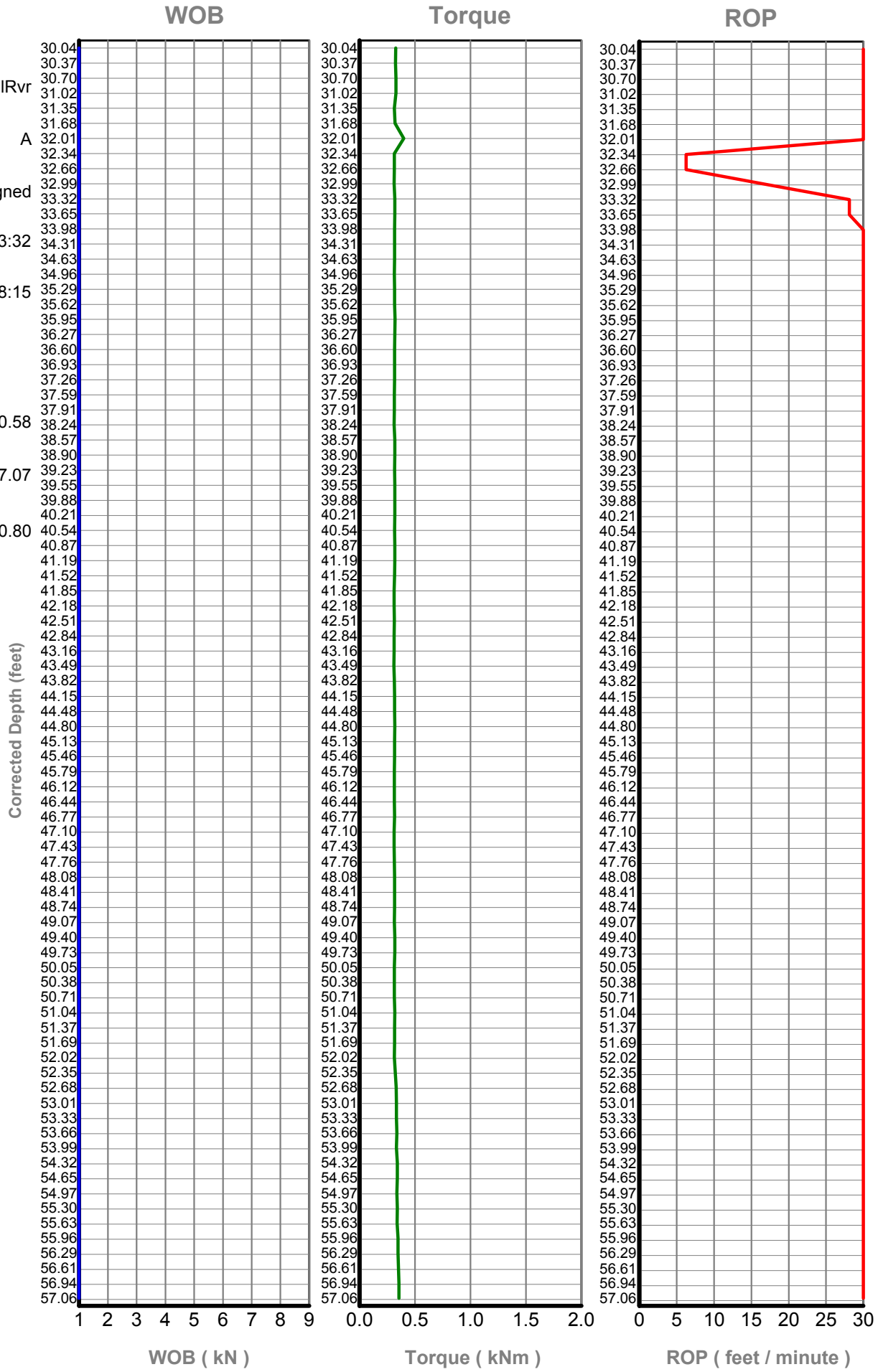
**End Date:**
4/21/2015 21:58:15

**Operator Note:**
'0.8 .9 b Auto Complete'

**Northing:**
368,100.58

**Easting:**
252,917.07

**Tide (feet):**
0.80



## Hole: E144 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 22:02:43 | 30.84 | 30.14 | 998 | 1.94 | 0.35 | 54.6 |
| 4/21/2015 22:02:43 | 31.17 | 30.47 | 998 | 1.94 | 0.35 | 54.6 |
| 4/21/2015 22:02:43 | 31.50 | 30.80 | 992 | 1.93 | 0.35 | 54.2 |
| 4/21/2015 22:02:44 | 31.82 | 31.12 | 984 | 1.93 | 0.35 | 53.8 |
| 4/21/2015 22:02:44 | 32.15 | 31.45 | 984 | 1.93 | 0.35 | 53.8 |
| 4/21/2015 22:02:44 | 32.48 | 31.78 | 984 | 1.93 | 0.35 | 53.8 |
| 4/21/2015 22:02:45 | 32.81 | 32.11 | 963 | 1.94 | 0.34 | 52.7 |
| 4/21/2015 22:02:45 | 33.14 | 32.44 | 963 | 1.94 | 0.34 | 52.7 |
| 4/21/2015 22:02:45 | 33.46 | 32.76 | 963 | 1.93 | 0.35 | 52.7 |
| 4/21/2015 22:02:46 | 33.79 | 33.09 | 989 | 1.93 | 0.34 | 54.1 |
| 4/21/2015 22:02:46 | 34.12 | 33.42 | 989 | 1.93 | 0.34 | 54.1 |
| 4/21/2015 22:02:46 | 34.45 | 33.75 | 983 | 1.93 | 0.34 | 53.8 |
| 4/21/2015 22:02:47 | 34.78 | 34.08 | 981 | 1.95 | 0.35 | 53.6 |
| 4/21/2015 22:02:47 | 35.11 | 34.41 | 994 | 1.89 | 0.32 | 54.4 |
| 4/21/2015 22:02:48 | 35.43 | 34.73 | 994 | 1.89 | 0.32 | 54.4 |
| 4/21/2015 22:02:48 | 35.76 | 35.06 | 1,011 | 1.89 | 0.32 | 55.3 |
| 4/21/2015 22:02:49 | 36.09 | 35.39 | 994 | 1.89 | 0.32 | 54.4 |
| 4/21/2015 22:02:49 | 36.42 | 35.72 | 994 | 1.89 | 0.32 | 54.4 |
| 4/21/2015 22:02:49 | 36.75 | 36.05 | 1,000 | 1.89 | 0.32 | 54.7 |
| 4/21/2015 22:02:50 | 37.07 | 36.37 | 1,000 | 1.87 | 0.33 | 54.7 |
| 4/21/2015 22:02:50 | 37.40 | 36.70 | 1,000 | 1.87 | 0.33 | 54.7 |
| 4/21/2015 22:02:50 | 37.73 | 37.03 | 997 | 1.90 | 0.33 | 54.5 |
| 4/21/2015 22:02:51 | 38.06 | 37.36 | 994 | 1.90 | 0.33 | 54.4 |
| 4/21/2015 22:02:51 | 38.39 | 37.69 | 994 | 1.90 | 0.33 | 54.4 |
| 4/21/2015 22:02:51 | 38.71 | 38.01 | 986 | 1.89 | 0.33 | 53.9 |
| 4/21/2015 22:02:52 | 39.04 | 38.34 | 977 | 1.91 | 0.33 | 53.4 |
| 4/21/2015 22:02:52 | 39.37 | 38.67 | 980 | 1.91 | 0.33 | 53.6 |
| 4/21/2015 22:02:53 | 39.70 | 39.00 | 980 | 1.91 | 0.33 | 53.6 |
| 4/21/2015 22:02:53 | 40.03 | 39.33 | 983 | 1.89 | 0.34 | 53.7 |
| 4/21/2015 22:02:53 | 40.35 | 39.65 | 974 | 1.89 | 0.32 | 53.3 |
| 4/21/2015 22:02:54 | 40.68 | 39.98 | 974 | 1.89 | 0.32 | 53.3 |
| 4/21/2015 22:02:54 | 41.01 | 40.31 | 971 | 1.89 | 0.32 | 53.1 |
| 4/21/2015 22:02:54 | 41.34 | 40.64 | 992 | 1.90 | 0.32 | 54.2 |
| 4/21/2015 22:02:55 | 41.67 | 40.97 | 992 | 1.90 | 0.32 | 54.2 |
| 4/21/2015 22:02:55 | 41.99 | 41.29 | 997 | 1.87 | 0.32 | 54.5 |
| 4/21/2015 22:02:55 | 42.32 | 41.62 | 986 | 1.87 | 0.32 | 53.9 |
| 4/21/2015 22:02:56 | 42.65 | 41.95 | 986 | 1.87 | 0.32 | 53.9 |
| 4/21/2015 22:02:56 | 42.98 | 42.28 | 986 | 1.89 | 0.32 | 53.9 |
| 4/21/2015 22:02:56 | 43.31 | 42.61 | 1,007 | 1.89 | 0.33 | 55.1 |
| 4/21/2015 22:02:57 | 43.64 | 42.94 | 1,007 | 1.89 | 0.33 | 55.1 |
| 4/21/2015 22:02:57 | 43.96 | 43.26 | 1,013 | 1.90 | 0.32 | 55.4 |
| 4/21/2015 22:02:57 | 44.29 | 43.59 | 999 | 1.90 | 0.32 | 54.6 |
| 4/21/2015 22:02:58 | 44.62 | 43.92 | 993 | 1.90 | 0.32 | 54.3 |
| 4/21/2015 22:02:59 | 44.95 | 44.25 | 993 | 1.90 | 0.32 | 54.3 |
| 4/21/2015 22:02:59 | 45.28 | 44.58 | 1,016 | 1.88 | 0.32 | 55.5 |
| 4/21/2015 22:02:59 | 45.60 | 44.90 | 1,016 | 1.88 | 0.32 | 55.5 |
| 4/21/2015 22:02:59 | 45.93 | 45.23 | 1,006 | 1.87 | 0.32 | 55.0 |
| 4/21/2015 22:03:00 | 46.26 | 45.56 | 1,018 | 1.88 | 0.32 | 55.7 |
| 4/21/2015 22:03:00 | 46.59 | 45.89 | 1,018 | 1.88 | 0.32 | 55.7 |
| 4/21/2015 22:03:00 | 46.92 | 46.22 | 1,018 | 1.87 | 0.32 | 55.6 |
| 4/21/2015 22:03:01 | 47.24 | 46.54 | 1,038 | 1.87 | 0.32 | 56.8 |
| 4/21/2015 22:03:01 | 47.57 | 46.87 | 1,038 | 1.87 | 0.32 | 56.8 |
| 4/21/2015 22:03:01 | 47.90 | 47.20 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 22:03:02 | 48.23 | 47.53 | 1,047 | 0.26 | 0.31 | 57.3 |
| 4/21/2015 22:03:02 | 48.56 | 47.86 | 1,047 | 0.26 | 0.31 | 57.3 |
| 4/21/2015 22:03:02 | 48.88 | 48.18 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/21/2015 22:03:03 | 49.21 | 48.51 | 1,065 | 0.30 | 0.32 | 58.2 |
| 4/21/2015 22:03:03 | 49.54 | 48.84 | 1,065 | 0.30 | 0.32 | 58.2 |
| 4/21/2015 22:03:03 | 49.87 | 49.17 | 1,058 | 0.30 | 0.32 | 57.9 |
| 4/21/2015 22:03:04 | 50.20 | 49.50 | 1,058 | 0.30 | 0.32 | 57.9 |
| 4/21/2015 22:03:04 | 50.53 | 49.83 | 1,058 | 0.30 | 0.32 | 57.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 22:03:04 | 50.85 | 50.15 | 1,058 | 0.29 | 0.32 | 57.9 |
| 4/21/2015 | 22:03:05 | 51.18 | 50.48 | 1,070 | 0.30 | 0.32 | 58.5 |
| 4/21/2015 | 22:03:05 | 51.51 | 50.81 | 1,070 | 0.30 | 0.32 | 58.5 |
| 4/21/2015 | 22:03:05 | 51.84 | 51.14 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/21/2015 | 22:03:06 | 52.17 | 51.47 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/21/2015 | 22:03:06 | 52.49 | 51.79 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/21/2015 | 22:03:06 | 52.82 | 52.12 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/21/2015 | 22:03:07 | 53.15 | 52.45 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/21/2015 | 22:03:07 | 53.48 | 52.78 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/21/2015 | 22:03:07 | 53.81 | 53.11 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/21/2015 | 22:03:08 | 54.13 | 53.43 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/21/2015 | 22:03:08 | 54.46 | 53.76 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/21/2015 | 22:03:08 | 54.79 | 54.09 | 1,038 | 0.30 | 0.32 | 56.8 |
| 4/21/2015 | 22:03:09 | 55.12 | 54.42 | 1,038 | 0.30 | 0.32 | 56.8 |
| 4/21/2015 | 22:03:09 | 55.45 | 54.75 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/21/2015 | 22:03:10 | 55.77 | 55.07 | 1,009 | 0.30 | 0.32 | 55.2 |
| 4/21/2015 | 22:03:10 | 56.10 | 55.40 | 997 | 0.29 | 0.33 | 54.5 |
| 4/21/2015 | 22:03:11 | 56.43 | 55.73 | 997 | 0.29 | 0.33 | 54.5 |
| 4/21/2015 | 22:03:11 | 56.76 | 56.06 | 983 | 0.27 | 0.33 | 53.7 |

## E144 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 22:00:40

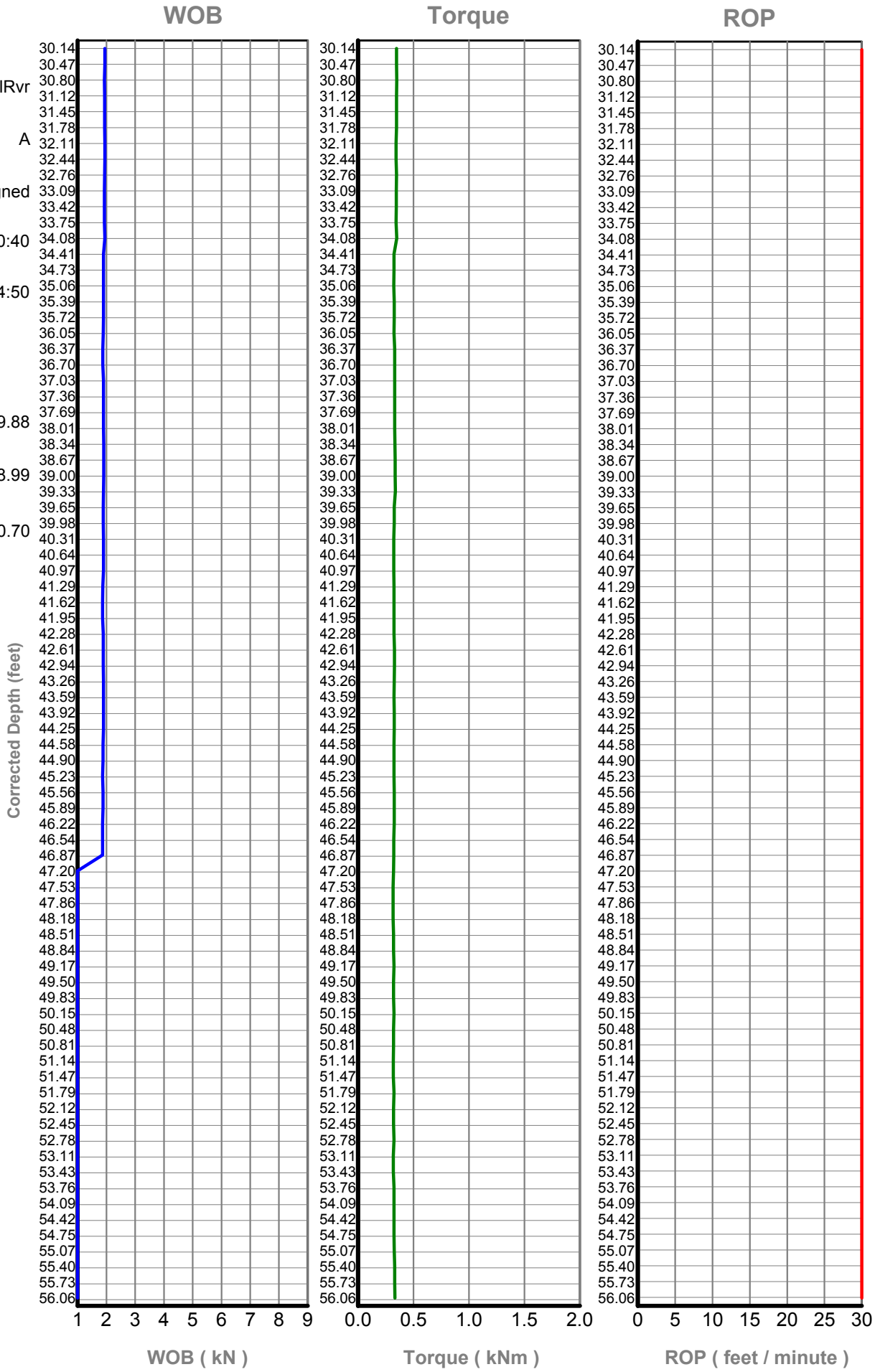
**End Date:**
4/21/2015 22:04:50

**Operator Note:**
'0.7 .9 b Auto Complete'

**Northing:**
368,139.88

**Easting:**
252,958.99

**Tide (feet):**
0.70



## Hole: E145 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:56:39 | 30.84 | 30.04 | 1,524 | 3.28 | 0.15 | 83.3 |
| 4/21/2015 21:56:40 | 31.17 | 30.37 | 1,521 | 3.25 | 0.15 | 83.2 |
| 4/21/2015 21:56:40 | 31.50 | 30.70 | 1,521 | 3.25 | 0.15 | 83.2 |
| 4/21/2015 21:56:40 | 31.82 | 31.02 | 1,526 | 3.56 | 0.15 | 83.5 |
| 4/21/2015 21:56:41 | 32.15 | 31.35 | 1,526 | 3.56 | 0.15 | 83.5 |
| 4/21/2015 21:56:45 | 32.48 | 31.68 | 74 | 3.25 | 0.14 | 4.1 |
| 4/21/2015 21:56:46 | 32.81 | 32.01 | 74 | 3.25 | 0.14 | 4.1 |
| 4/21/2015 21:56:46 | 33.14 | 32.34 | 390 | 3.24 | 0.15 | 21.3 |
| 4/21/2015 21:56:46 | 33.46 | 32.66 | 390 | 3.24 | 0.15 | 21.3 |
| 4/21/2015 21:56:46 | 33.79 | 32.99 | 390 | 3.24 | 0.15 | 21.3 |
| 4/21/2015 21:56:46 | 34.12 | 33.32 | 390 | 3.26 | 0.15 | 21.3 |
| 4/21/2015 21:56:47 | 34.45 | 33.65 | 390 | 3.26 | 0.15 | 21.3 |
| 4/21/2015 21:56:47 | 34.78 | 33.98 | 703 | 3.26 | 0.15 | 38.5 |
| 4/21/2015 21:56:47 | 35.11 | 34.31 | 703 | 3.26 | 0.15 | 38.5 |
| 4/21/2015 21:56:47 | 35.43 | 34.63 | 1,010 | 3.24 | 0.15 | 55.2 |
| 4/21/2015 21:56:48 | 35.76 | 34.96 | 1,010 | 3.24 | 0.15 | 55.2 |
| 4/21/2015 21:56:48 | 36.09 | 35.29 | 1,309 | 3.24 | 0.15 | 71.6 |
| 4/21/2015 21:56:48 | 36.42 | 35.62 | 1,309 | 3.24 | 0.15 | 71.6 |
| 4/21/2015 21:56:48 | 36.75 | 35.95 | 1,544 | 3.24 | 0.15 | 84.5 |
| 4/21/2015 21:56:49 | 37.07 | 36.27 | 1,544 | 3.24 | 0.15 | 84.5 |
| 4/21/2015 21:56:49 | 37.40 | 36.60 | 1,544 | 3.24 | 0.15 | 84.5 |
| 4/21/2015 21:56:49 | 37.73 | 36.93 | 1,525 | 3.26 | 0.15 | 83.4 |
| 4/21/2015 21:56:49 | 38.06 | 37.26 | 1,525 | 3.26 | 0.15 | 83.4 |
| 4/21/2015 21:56:50 | 38.39 | 37.59 | 1,518 | 3.28 | 0.15 | 83.0 |
| 4/21/2015 21:56:50 | 38.71 | 37.91 | 1,518 | 3.28 | 0.15 | 83.0 |
| 4/21/2015 21:56:50 | 39.04 | 38.24 | 1,506 | 3.24 | 0.14 | 82.3 |
| 4/21/2015 21:56:50 | 39.37 | 38.57 | 1,506 | 3.24 | 0.14 | 82.3 |
| 4/21/2015 21:56:51 | 39.70 | 38.90 | 1,515 | 3.25 | 0.16 | 82.9 |
| 4/21/2015 21:56:51 | 40.03 | 39.23 | 1,515 | 3.25 | 0.16 | 82.9 |
| 4/21/2015 21:56:51 | 40.35 | 39.55 | 1,515 | 3.25 | 0.16 | 82.9 |
| 4/21/2015 21:56:51 | 40.68 | 39.88 | 1,515 | 3.24 | 0.15 | 82.9 |
| 4/21/2015 21:56:51 | 41.01 | 40.21 | 1,515 | 3.24 | 0.15 | 82.9 |
| 4/21/2015 21:56:52 | 41.34 | 40.54 | 1,515 | 3.25 | 0.14 | 82.9 |
| 4/21/2015 21:56:52 | 41.67 | 40.87 | 1,515 | 3.25 | 0.14 | 82.9 |
| 4/21/2015 21:56:52 | 41.99 | 41.19 | 1,509 | 3.27 | 0.15 | 82.5 |
| 4/21/2015 21:56:52 | 42.32 | 41.52 | 1,509 | 3.27 | 0.15 | 82.5 |
| 4/21/2015 21:56:53 | 42.65 | 41.85 | 1,527 | 3.26 | 0.15 | 83.5 |
| 4/21/2015 21:56:53 | 42.98 | 42.18 | 1,527 | 3.26 | 0.15 | 83.5 |
| 4/21/2015 21:56:53 | 43.31 | 42.51 | 1,512 | 3.27 | 0.15 | 82.7 |
| 4/21/2015 21:56:53 | 43.64 | 42.84 | 1,512 | 3.27 | 0.15 | 82.7 |
| 4/21/2015 21:56:54 | 43.96 | 43.16 | 1,512 | 3.27 | 0.15 | 82.7 |
| 4/21/2015 21:56:54 | 44.29 | 43.49 | 1,509 | 3.25 | 0.14 | 82.5 |
| 4/21/2015 21:56:54 | 44.62 | 43.82 | 1,509 | 3.25 | 0.14 | 82.5 |
| 4/21/2015 21:56:54 | 44.95 | 44.15 | 1,512 | 3.24 | 0.15 | 82.7 |
| 4/21/2015 21:56:55 | 45.28 | 44.48 | 1,512 | 3.24 | 0.15 | 82.7 |
| 4/21/2015 21:56:55 | 45.60 | 44.80 | 1,512 | 3.26 | 0.14 | 82.7 |
| 4/21/2015 21:56:55 | 45.93 | 45.13 | 1,512 | 3.26 | 0.14 | 82.7 |
| 4/21/2015 21:56:55 | 46.26 | 45.46 | 1,506 | 3.26 | 0.14 | 82.4 |
| 4/21/2015 21:56:56 | 46.59 | 45.79 | 1,506 | 3.26 | 0.14 | 82.4 |
| 4/21/2015 21:56:56 | 46.92 | 46.12 | 1,509 | 3.25 | 0.14 | 82.5 |
| 4/21/2015 21:56:56 | 47.24 | 46.44 | 1,509 | 3.25 | 0.14 | 82.5 |
| 4/21/2015 21:56:56 | 47.57 | 46.77 | 1,509 | 3.25 | 0.14 | 82.5 |
| 4/21/2015 21:56:56 | 47.90 | 47.10 | 1,500 | 3.24 | 0.15 | 82.0 |
| 4/21/2015 21:56:57 | 48.23 | 47.43 | 1,500 | 3.24 | 0.15 | 82.0 |
| 4/21/2015 21:56:57 | 48.56 | 47.76 | 1,512 | 3.22 | 0.14 | 82.7 |
| 4/21/2015 21:56:57 | 48.88 | 48.08 | 1,512 | 3.22 | 0.14 | 82.7 |
| 4/21/2015 21:56:57 | 49.21 | 48.41 | 1,506 | 3.23 | 0.14 | 82.4 |
| 4/21/2015 21:56:58 | 49.54 | 48.74 | 1,506 | 3.23 | 0.14 | 82.4 |
| 4/21/2015 21:56:58 | 49.87 | 49.07 | 1,506 | 3.25 | 0.14 | 82.4 |
| 4/21/2015 21:56:58 | 50.20 | 49.40 | 1,506 | 3.25 | 0.14 | 82.4 |
| 4/21/2015 21:56:58 | 50.53 | 49.73 | 1,506 | 3.23 | 0.15 | 82.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:56:59 | 50.85 | 50.05 | 1,506 | 3.23 | 0.15 | 82.4 |
| 4/21/2015 | 21:56:59 | 51.18 | 50.38 | 1,506 | 3.23 | 0.15 | 82.4 |
| 4/21/2015 | 21:56:59 | 51.51 | 50.71 | 1,512 | 3.26 | 0.14 | 82.7 |
| 4/21/2015 | 21:56:59 | 51.84 | 51.04 | 1,512 | 3.26 | 0.14 | 82.7 |
| 4/21/2015 | 21:57:00 | 52.17 | 51.37 | 1,494 | 3.29 | 0.14 | 81.7 |
| 4/21/2015 | 21:57:23 | 52.49 | 51.69 | 0 | 3.32 | 0.95 | 0.0 |
| 4/21/2015 | 21:57:47 | 52.82 | 52.02 | 0 | 3.32 | 0.95 | 0.0 |
| 4/21/2015 | 21:57:24 | 53.15 | 52.35 | 223 | 3.51 | 0.95 | 12.2 |
| 4/21/2015 | 21:57:24 | 53.48 | 52.68 | 411 | 2.96 | 0.97 | 22.5 |
| 4/21/2015 | 21:57:25 | 53.81 | 53.01 | 480 | 3.40 | 0.97 | 26.2 |
| 4/21/2015 | 21:57:26 | 54.13 | 53.33 | 633 | 2.25 | 0.96 | 34.6 |
| 4/21/2015 | 21:57:26 | 54.46 | 53.66 | 784 | 3.52 | 0.96 | 42.9 |
| 4/21/2015 | 21:57:30 | 54.79 | 53.99 | 0 | 3.29 | 0.94 | 0.0 |
| 4/21/2015 | 21:57:33 | 55.12 | 54.32 | 0 | 3.29 | 0.94 | 0.0 |
| 4/21/2015 | 21:57:30 | 55.45 | 54.65 | 263 | 3.30 | 0.95 | 14.4 |
| 4/21/2015 | 21:57:31 | 55.77 | 54.97 | 263 | 3.30 | 0.95 | 14.4 |
| 4/21/2015 | 21:57:31 | 56.10 | 55.30 | 514 | 3.32 | 0.95 | 28.1 |
| 4/21/2015 | 21:57:31 | 56.43 | 55.63 | 514 | 3.32 | 0.95 | 28.1 |
| 4/21/2015 | 21:57:31 | 56.76 | 55.96 | 756 | 2.29 | 1.00 | 41.3 |
| 4/21/2015 | 21:57:50 | 57.09 | 56.29 | 0 | 3.32 | 0.30 | 0.0 |
| 4/21/2015 | 21:57:52 | 57.41 | 56.61 | 170 | 1.69 | 0.31 | 9.3 |
| 4/21/2015 | 21:57:55 | 57.74 | 56.94 | 95 | 1.56 | 1.01 | 5.2 |
| 4/21/2015 | 21:57:57 | 58.07 | 57.27 | 137 | 1.88 | 1.06 | 7.5 |
| 4/21/2015 | 21:57:58 | 58.25 | 57.45 | 198 | 2.00 | 0.33 | 10.8 |

## E145 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:55:30

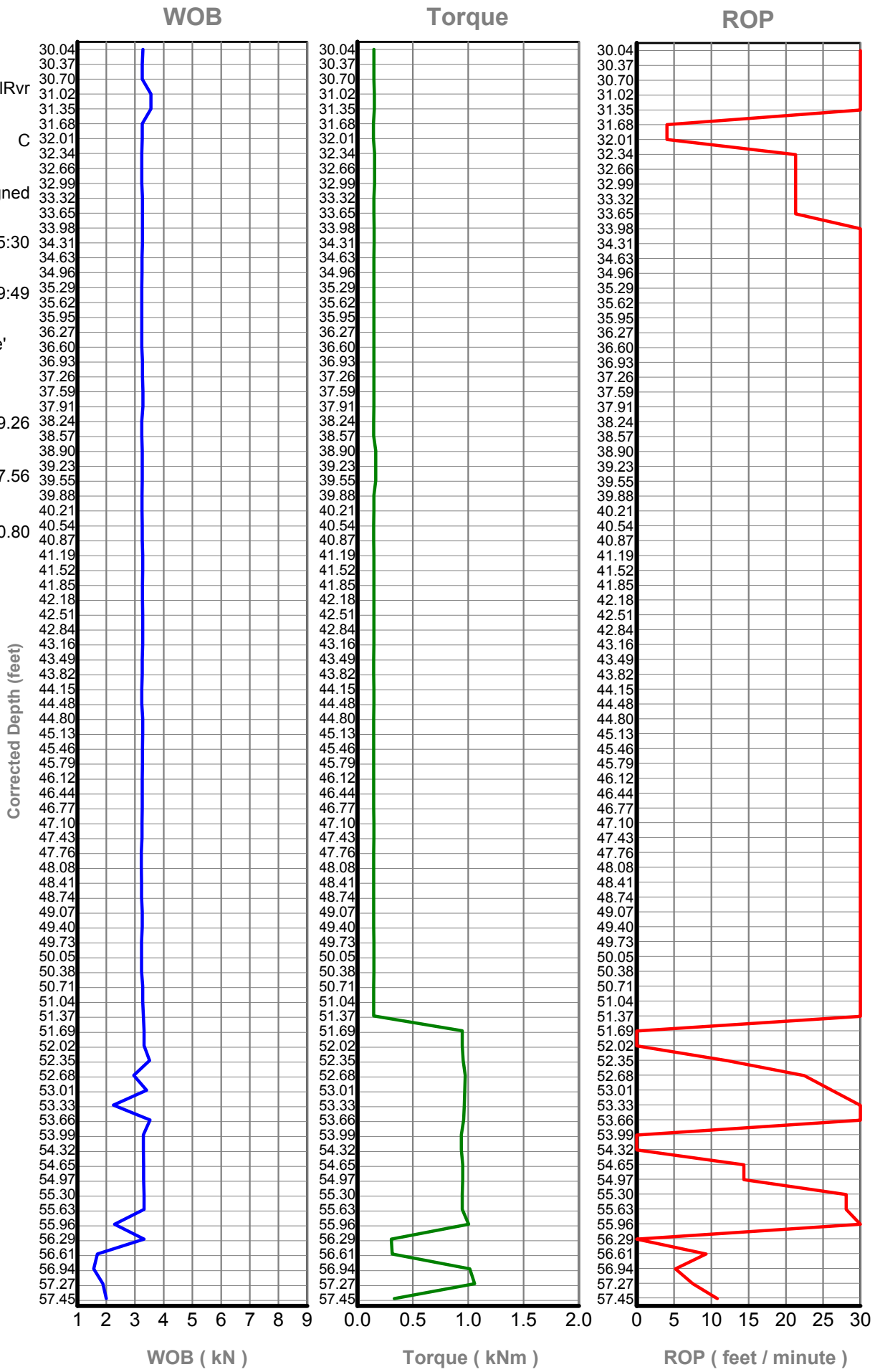
**End Date:**
4/21/2015 21:59:49

**Operator Note:**
'0.8 0.9 c Auto Complete'

**Northing:**
368,189.26

**Easting:**
253,017.56

**Tide (feet):**
0.80



## Hole: E146 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:16:54 | 31.17 | 30.07 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 10:16:54 | 31.50 | 30.40 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:16:54 | 31.82 | 30.72 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:55 | 32.15 | 31.05 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:55 | 32.48 | 31.38 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:16:55 | 32.81 | 31.71 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:56 | 33.14 | 32.04 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:56 | 33.46 | 32.36 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:16:56 | 33.79 | 32.69 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:57 | 34.12 | 33.02 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:16:57 | 34.45 | 33.35 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:16:57 | 34.78 | 33.68 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:16:58 | 35.11 | 34.01 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:16:58 | 35.43 | 34.33 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:16:58 | 35.76 | 34.66 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:16:59 | 36.09 | 34.99 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:16:59 | 36.42 | 35.32 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:17:00 | 36.75 | 35.65 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:00 | 37.07 | 35.97 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:00 | 37.40 | 36.30 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:01 | 37.73 | 36.63 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:01 | 38.06 | 36.96 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:01 | 38.39 | 37.29 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:02 | 38.71 | 37.61 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:17:02 | 39.04 | 37.94 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:17:02 | 39.37 | 38.27 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:03 | 39.70 | 38.60 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:03 | 40.03 | 38.93 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:03 | 40.35 | 39.25 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:04 | 40.68 | 39.58 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:04 | 41.01 | 39.91 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:04 | 41.34 | 40.24 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:05 | 41.67 | 40.57 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:05 | 41.99 | 40.89 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:05 | 42.32 | 41.22 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 10:17:06 | 42.65 | 41.55 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:17:06 | 42.98 | 41.88 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:17:06 | 43.31 | 42.21 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:07 | 43.64 | 42.54 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:17:07 | 43.96 | 42.86 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:17:07 | 44.29 | 43.19 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:17:08 | 44.62 | 43.52 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:17:08 | 44.95 | 43.85 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:17:08 | 45.28 | 44.18 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:17:09 | 45.60 | 44.50 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:17:09 | 45.93 | 44.83 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 10:17:09 | 46.26 | 45.16 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:17:10 | 46.59 | 45.49 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:17:10 | 46.92 | 45.82 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:17:11 | 47.24 | 46.14 | 1,051 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:11 | 47.57 | 46.47 | 1,051 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:11 | 47.90 | 46.80 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:17:12 | 48.23 | 47.13 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:17:12 | 48.56 | 47.46 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:17:12 | 48.88 | 47.78 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:17:13 | 49.21 | 48.11 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:17:13 | 49.54 | 48.44 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:17:13 | 49.87 | 48.77 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:17:14 | 50.20 | 49.10 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:17:14 | 50.53 | 49.43 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:17:14 | 50.85 | 49.75 | 1,044 | 1.73 | 0.21 | 57.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:17:15 | 51.18 | 50.08 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 | 10:17:15 | 51.51 | 50.41 | 972 | 1.73 | 0.21 | 53.2 |
| 4/21/2015 | 10:17:16 | 51.84 | 50.74 | 972 | 1.73 | 0.21 | 53.2 |
| 4/21/2015 | 10:17:16 | 52.17 | 51.07 | 926 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 | 10:17:16 | 52.49 | 51.39 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 10:17:27 | 52.82 | 51.72 | 120 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 | 10:17:27 | 53.15 | 52.05 | 120 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 | 10:17:27 | 53.48 | 52.38 | 302 | 1.73 | 0.21 | 16.5 |
| 4/21/2015 | 10:17:28 | 53.81 | 52.71 | 465 | 1.73 | 0.21 | 25.4 |
| 4/21/2015 | 10:17:28 | 54.13 | 53.03 | 630 | 1.73 | 0.21 | 34.4 |
| 4/21/2015 | 10:17:29 | 54.46 | 53.36 | 785 | 1.73 | 0.21 | 42.9 |
| 4/21/2015 | 10:17:29 | 54.79 | 53.69 | 829 | 1.73 | 0.21 | 45.3 |
| 4/21/2015 | 10:17:30 | 55.12 | 54.02 | 829 | 1.73 | 0.21 | 45.3 |
| 4/21/2015 | 10:17:30 | 55.45 | 54.35 | 810 | 1.73 | 0.21 | 44.3 |
| 4/21/2015 | 10:17:30 | 55.77 | 54.67 | 785 | 1.73 | 0.21 | 42.9 |
| 4/21/2015 | 10:17:32 | 56.10 | 55.00 | 537 | 1.73 | 0.21 | 29.4 |
| 4/21/2015 | 10:17:33 | 56.33 | 55.23 | 304 | 1.73 | 0.21 | 16.6 |

## E146 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:15:38

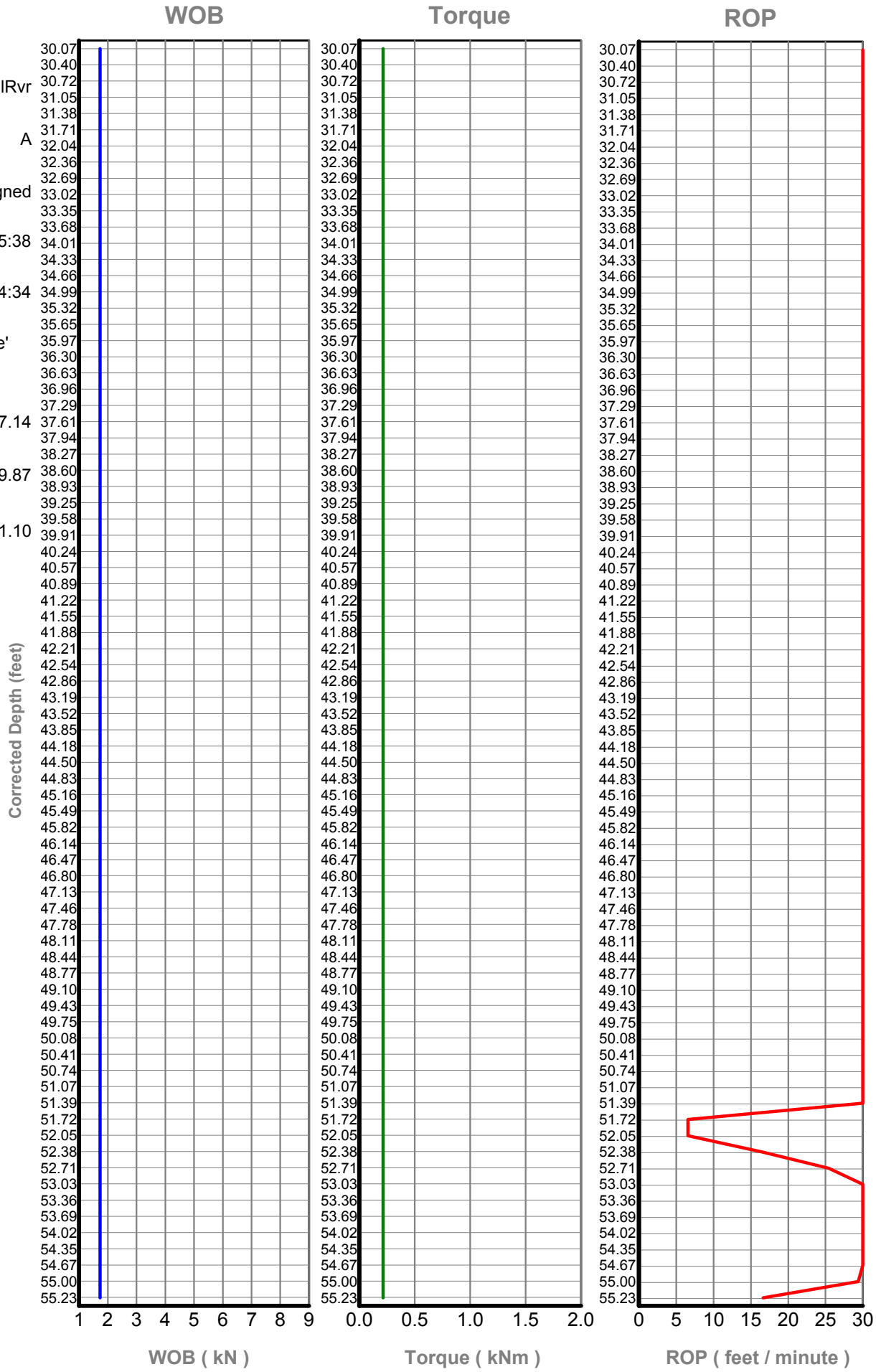
**End Date:**
4/21/2015 10:24:34

**Operator Note:**
'1.1 1.2 b Auto Complete'

**Northing:**
368,257.14

**Easting:**
253,099.87

**Tide (feet):**
1.10



## Hole: E147 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:06:46 | 31.50 | 30.20 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 10:06:47 | 31.82 | 30.52 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 10:06:47 | 32.15 | 30.85 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 10:06:47 | 32.48 | 31.18 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 10:06:48 | 32.81 | 31.51 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 10:06:48 | 33.14 | 31.84 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 10:06:49 | 33.46 | 32.16 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 10:06:49 | 33.79 | 32.49 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:06:50 | 34.12 | 32.82 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:06:50 | 34.45 | 33.15 | 993 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 10:06:50 | 34.78 | 33.48 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 10:06:51 | 35.11 | 33.81 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 10:06:51 | 35.43 | 34.13 | 990 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 10:06:51 | 35.76 | 34.46 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 10:06:52 | 36.09 | 34.79 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 10:06:52 | 36.42 | 35.12 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 10:06:52 | 36.75 | 35.45 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 10:06:53 | 37.07 | 35.77 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 10:06:53 | 37.40 | 36.10 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 10:06:53 | 37.73 | 36.43 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 10:06:54 | 38.06 | 36.76 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 10:06:54 | 38.39 | 37.09 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 10:06:54 | 38.71 | 37.41 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 10:06:55 | 39.04 | 37.74 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:06:55 | 39.37 | 38.07 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:06:55 | 39.70 | 38.40 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:06:56 | 40.03 | 38.73 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:06:56 | 40.35 | 39.05 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:06:56 | 40.68 | 39.38 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:06:57 | 41.01 | 39.71 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:06:57 | 41.34 | 40.04 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:06:57 | 41.67 | 40.37 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:06:58 | 41.99 | 40.69 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:06:58 | 42.32 | 41.02 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:06:58 | 42.65 | 41.35 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:06:59 | 42.98 | 41.68 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:06:59 | 43.31 | 42.01 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:06:59 | 43.64 | 42.34 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:07:00 | 43.96 | 42.66 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:01 | 44.29 | 42.99 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:01 | 44.62 | 43.32 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:07:01 | 44.95 | 43.65 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:02 | 45.28 | 43.98 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:02 | 45.60 | 44.30 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:07:02 | 45.93 | 44.63 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:03 | 46.26 | 44.96 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:07:03 | 46.59 | 45.29 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:07:03 | 46.92 | 45.62 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:04 | 47.24 | 45.94 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:04 | 47.57 | 46.27 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:07:04 | 47.90 | 46.60 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:05 | 48.23 | 46.93 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:05 | 48.56 | 47.26 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:07:05 | 48.88 | 47.58 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:06 | 49.21 | 47.91 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:07:06 | 49.54 | 48.24 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:07:06 | 49.87 | 48.57 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:07:07 | 50.20 | 48.90 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:07:07 | 50.53 | 49.23 | 900 | 1.73 | 0.21 | 49.2 |
| 4/21/2015 10:07:22 | 50.85 | 49.55 | 56 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 10:07:24 | 51.18 | 49.88 | 141 | 1.73 | 0.21 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:07:24 | 51.51 | 50.21 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 | 10:07:25 | 51.84 | 50.54 | 338 | 1.73 | 0.21 | 18.5 |
| 4/21/2015 | 10:07:26 | 52.17 | 50.87 | 535 | 1.73 | 0.21 | 29.3 |
| 4/21/2015 | 10:07:34 | 52.49 | 51.19 | 91 | 1.73 | 0.21 | 5.0 |
| 4/21/2015 | 10:07:34 | 52.82 | 51.52 | 177 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 | 10:07:36 | 53.15 | 51.85 | 371 | 1.73 | 0.21 | 20.3 |
| 4/21/2015 | 10:07:37 | 53.48 | 52.18 | 413 | 1.73 | 0.21 | 22.6 |
| 4/21/2015 | 10:07:38 | 53.81 | 52.51 | 348 | 1.73 | 0.21 | 19.1 |
| 4/21/2015 | 10:07:40 | 54.13 | 52.83 | 233 | 1.73 | 0.21 | 12.7 |
| 4/21/2015 | 10:07:41 | 54.46 | 53.16 | 203 | 1.73 | 0.21 | 11.1 |
| 4/21/2015 | 10:07:41 | 54.79 | 53.49 | 253 | 1.73 | 0.21 | 13.9 |
| 4/21/2015 | 10:07:42 | 55.12 | 53.82 | 390 | 1.73 | 0.21 | 21.3 |
| 4/21/2015 | 10:07:43 | 55.45 | 54.15 | 472 | 1.73 | 0.21 | 25.8 |
| 4/21/2015 | 10:07:44 | 55.77 | 54.47 | 503 | 1.73 | 0.21 | 27.5 |
| 4/21/2015 | 10:07:46 | 56.10 | 54.80 | 198 | 1.73 | 0.21 | 10.9 |
| 4/21/2015 | 10:07:47 | 56.42 | 55.12 | 195 | 1.73 | 0.21 | 10.7 |

## E147 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:04:46

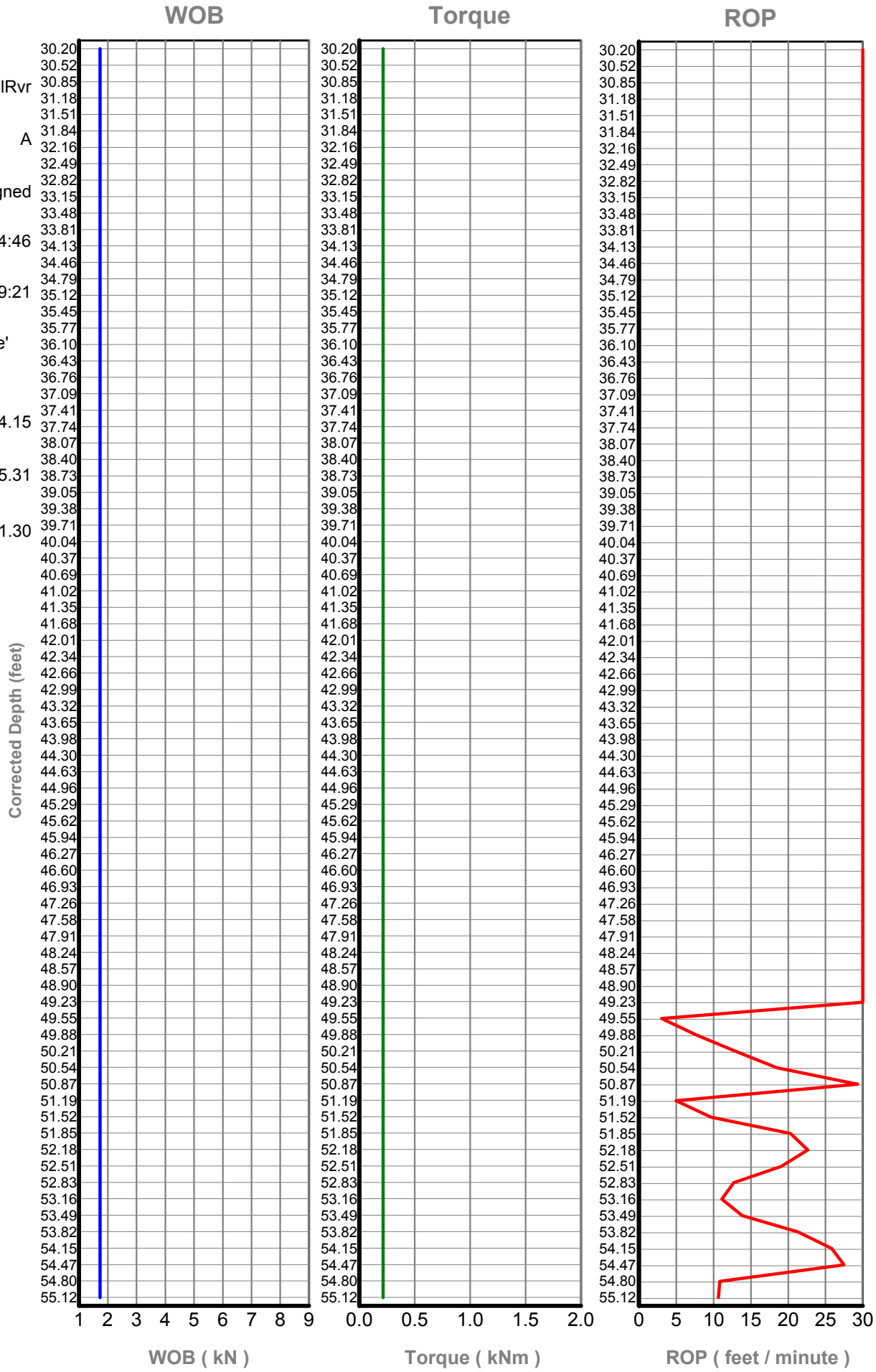
**End Date:**
4/21/2015 10:09:21

**Operator Note:**
'1.3 1.3 b Auto Complete'

**Northing:**
368,294.15

**Easting:**
253,145.31

**Tide (feet):**
1.30



## Hole: E148 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:11:19 | 31.17 | 30.07 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 10:11:19 | 31.50 | 30.40 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 10:11:20 | 31.82 | 30.72 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 10:11:20 | 32.15 | 31.05 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 10:11:20 | 32.48 | 31.38 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 10:11:21 | 32.81 | 31.71 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 10:11:21 | 33.14 | 32.04 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 10:11:21 | 33.46 | 32.36 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 10:11:22 | 33.79 | 32.69 | 1,063 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:22 | 34.12 | 33.02 | 1,063 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:22 | 34.45 | 33.35 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:11:23 | 34.78 | 33.68 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:11:23 | 35.11 | 34.01 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:11:23 | 35.43 | 34.33 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:11:24 | 35.76 | 34.66 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:11:24 | 36.09 | 34.99 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 10:11:24 | 36.42 | 35.32 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:25 | 36.75 | 35.65 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:25 | 37.07 | 35.97 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 10:11:25 | 37.40 | 36.30 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 10:11:26 | 37.73 | 36.63 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 10:11:26 | 38.06 | 36.96 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 10:11:26 | 38.39 | 37.29 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:11:27 | 38.71 | 37.61 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:11:27 | 39.04 | 37.94 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:28 | 39.37 | 38.27 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:11:28 | 39.70 | 38.60 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:11:28 | 40.03 | 38.93 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:29 | 40.35 | 39.25 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:29 | 40.68 | 39.58 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:11:29 | 41.01 | 39.91 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:30 | 41.34 | 40.24 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:30 | 41.67 | 40.57 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:11:30 | 41.99 | 40.89 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:31 | 42.32 | 41.22 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:31 | 42.65 | 41.55 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 10:11:31 | 42.98 | 41.88 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 10:11:32 | 43.31 | 42.21 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 10:11:32 | 43.64 | 42.54 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 10:11:32 | 43.96 | 42.86 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 10:11:33 | 44.29 | 43.19 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 10:11:33 | 44.62 | 43.52 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:11:33 | 44.95 | 43.85 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:11:34 | 45.28 | 44.18 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:11:34 | 45.60 | 44.50 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 10:11:34 | 45.93 | 44.83 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:11:35 | 46.26 | 45.16 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:11:35 | 46.59 | 45.49 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:11:35 | 46.92 | 45.82 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 10:11:36 | 47.24 | 46.14 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 10:11:36 | 47.57 | 46.47 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:11:50 | 47.90 | 46.80 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 10:11:51 | 48.23 | 47.13 | 185 | 1.73 | 0.21 | 10.1 |
| 4/21/2015 10:11:52 | 48.56 | 47.46 | 328 | 1.73 | 0.21 | 17.9 |
| 4/21/2015 10:11:53 | 48.88 | 47.78 | 324 | 1.73 | 0.21 | 17.7 |
| 4/21/2015 10:11:59 | 49.21 | 48.11 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 10:12:00 | 49.54 | 48.44 | 183 | 1.73 | 0.21 | 10.0 |
| 4/21/2015 10:12:05 | 49.87 | 48.77 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 10:12:07 | 50.20 | 49.10 | 123 | 1.73 | 0.21 | 6.7 |
| 4/21/2015 10:12:08 | 50.53 | 49.43 | 243 | 1.73 | 0.21 | 13.3 |
| 4/21/2015 10:12:08 | 50.85 | 49.75 | 267 | 1.73 | 0.21 | 14.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:12:09 | 51.18 | 50.08 | 350 | 1.73 | 0.21 | 19.2 |
| 4/21/2015 | 10:12:09 | 51.51 | 50.41 | 450 | 1.73 | 0.21 | 24.6 |
| 4/21/2015 | 10:12:10 | 51.84 | 50.74 | 542 | 1.73 | 0.21 | 29.6 |
| 4/21/2015 | 10:12:11 | 52.17 | 51.07 | 500 | 1.73 | 0.21 | 27.4 |
| 4/21/2015 | 10:12:13 | 52.49 | 51.39 | 378 | 1.73 | 0.21 | 20.7 |
| 4/21/2015 | 10:12:14 | 52.82 | 51.72 | 265 | 1.73 | 0.21 | 14.5 |
| 4/21/2015 | 10:12:17 | 53.15 | 52.05 | 142 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 | 10:12:20 | 53.48 | 52.38 | 116 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 | 10:12:23 | 53.81 | 52.71 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 10:12:28 | 54.13 | 53.03 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 10:12:32 | 54.46 | 53.36 | 81 | 1.73 | 0.21 | 4.5 |
| 4/21/2015 | 10:12:36 | 54.79 | 53.69 | 89 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 10:12:41 | 55.12 | 54.02 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 10:12:45 | 55.45 | 54.35 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 10:12:50 | 55.77 | 54.67 | 71 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 | 10:12:55 | 56.10 | 55.00 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 10:12:57 | 56.29 | 55.19 | 81 | 1.73 | 0.21 | 4.4 |

## E148 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:10:08

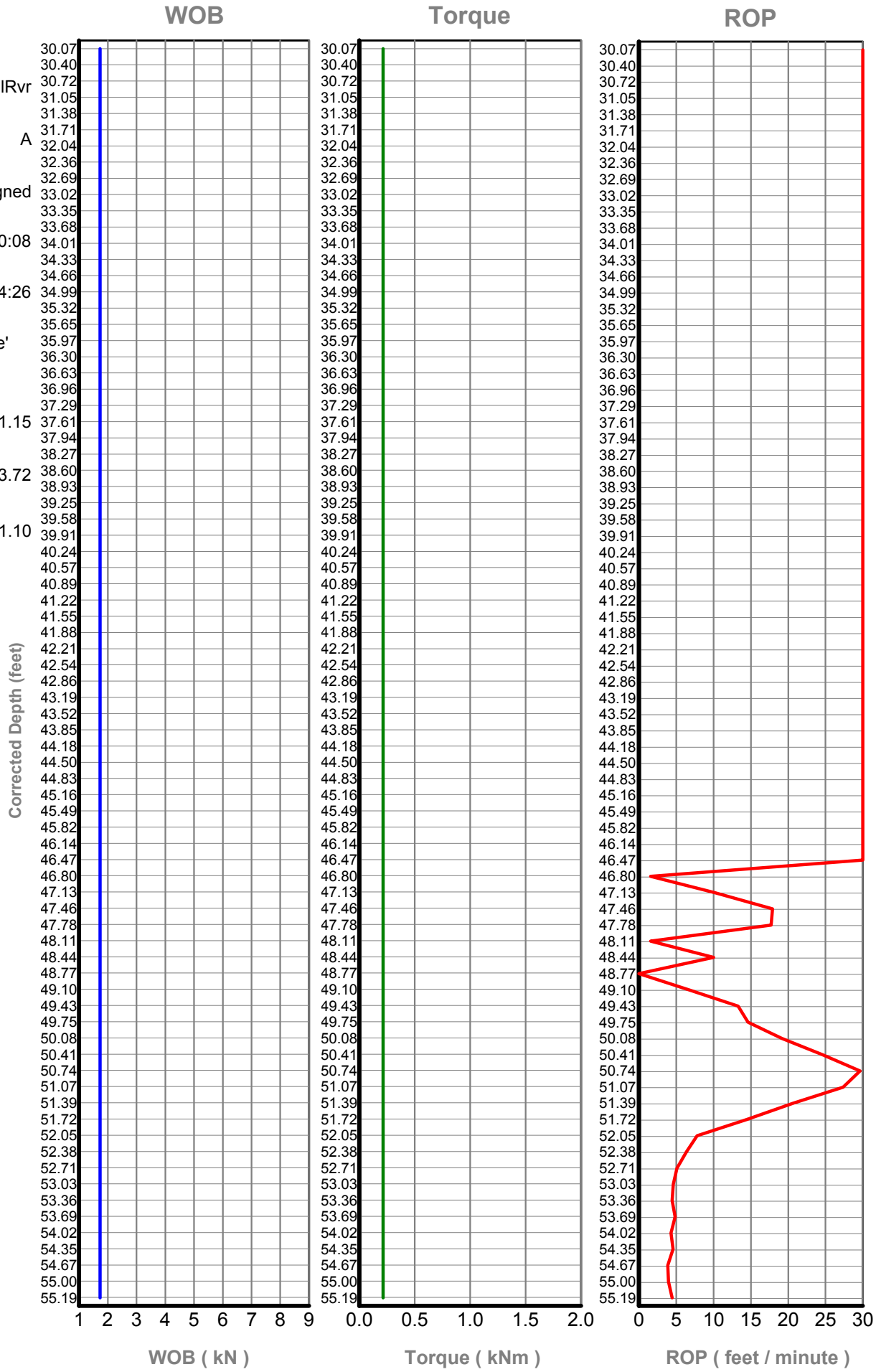
**End Date:**
4/21/2015 10:14:26

**Operator Note:**
'1.1 1.3 b Auto Complete'

**Northing:**
368,341.15

**Easting:**
253,203.72

**Tide (feet):**
1.10



## Hole: E149 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:53:28 | 32.81 | 30.21 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:28 | 33.14 | 30.54 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:28 | 33.46 | 30.86 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:53:29 | 33.79 | 31.19 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:53:29 | 34.12 | 31.52 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:53:29 | 34.45 | 31.85 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:53:30 | 34.78 | 32.18 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:53:30 | 35.11 | 32.51 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 22:53:31 | 35.43 | 32.83 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 22:53:31 | 35.76 | 33.16 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 22:53:31 | 36.09 | 33.49 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:32 | 36.42 | 33.82 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:32 | 36.75 | 34.15 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:32 | 37.07 | 34.47 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:33 | 37.40 | 34.80 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:33 | 37.73 | 35.13 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:33 | 38.06 | 35.46 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:53:34 | 38.39 | 35.79 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:53:34 | 38.71 | 36.11 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:53:34 | 39.04 | 36.44 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:53:35 | 39.37 | 36.77 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:35 | 39.70 | 37.10 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:35 | 40.03 | 37.43 | 1,060 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:36 | 40.35 | 37.75 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 22:53:36 | 40.68 | 38.08 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 22:53:36 | 41.01 | 38.41 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:37 | 41.34 | 38.74 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:37 | 41.67 | 39.07 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:37 | 41.99 | 39.39 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:38 | 42.32 | 39.72 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:53:38 | 42.65 | 40.05 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:53:38 | 42.98 | 40.38 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:39 | 43.31 | 40.71 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:39 | 43.64 | 41.04 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:53:39 | 43.96 | 41.36 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:53:40 | 44.29 | 41.69 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:53:40 | 44.62 | 42.02 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:53:40 | 44.95 | 42.35 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:53:41 | 45.28 | 42.68 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:53:41 | 45.60 | 43.00 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:53:41 | 45.93 | 43.33 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:42 | 46.26 | 43.66 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:42 | 46.59 | 43.99 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:53:43 | 46.92 | 44.32 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:43 | 47.24 | 44.64 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:53:43 | 47.57 | 44.97 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:53:44 | 47.90 | 45.30 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:53:44 | 48.23 | 45.63 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:54:29 | 48.56 | 45.96 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 22:54:44 | 48.88 | 46.28 | 36 | 1.73 | 0.21 | 2.0 |
| 4/20/2015 22:54:50 | 49.21 | 46.61 | 37 | 1.73 | 0.21 | 2.0 |
| 4/20/2015 22:55:02 | 49.54 | 46.94 | 52 | 1.73 | 0.21 | 2.9 |
| 4/20/2015 22:55:06 | 49.87 | 47.27 | 90 | 1.73 | 0.21 | 4.9 |
| 4/20/2015 22:55:10 | 50.20 | 47.60 | 90 | 1.73 | 0.21 | 4.9 |
| 4/20/2015 22:55:15 | 50.53 | 47.93 | 76 | 1.73 | 0.21 | 4.1 |
| 4/20/2015 22:55:20 | 50.85 | 48.25 | 76 | 1.73 | 0.21 | 4.1 |
| 4/20/2015 22:55:24 | 51.18 | 48.58 | 78 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 22:55:29 | 51.51 | 48.91 | 79 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 22:55:33 | 51.84 | 49.24 | 81 | 1.73 | 0.21 | 4.4 |
| 4/20/2015 22:55:38 | 52.17 | 49.57 | 76 | 1.73 | 0.21 | 4.1 |
| 4/20/2015 22:55:43 | 52.49 | 49.89 | 81 | 1.73 | 0.21 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 22:55:47 | 52.82 | 50.22 | 87 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 | 22:55:51 | 53.15 | 50.55 | 88 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 | 22:55:55 | 53.48 | 50.88 | 96 | 1.73 | 0.21 | 5.2 |
| 4/20/2015 | 22:55:58 | 53.81 | 51.21 | 110 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 | 22:56:02 | 54.13 | 51.53 | 102 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 | 22:56:06 | 54.46 | 51.86 | 81 | 1.73 | 0.21 | 4.4 |
| 4/20/2015 | 22:56:10 | 54.79 | 52.19 | 87 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 | 22:56:15 | 55.12 | 52.52 | 73 | 1.73 | 0.21 | 4.0 |
| 4/20/2015 | 22:56:19 | 55.45 | 52.85 | 76 | 1.73 | 0.21 | 4.2 |
| 4/20/2015 | 22:56:25 | 55.77 | 53.17 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 | 22:56:27 | 55.91 | 53.31 | 67 | 1.73 | 0.21 | 3.7 |

## E149 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:50:35

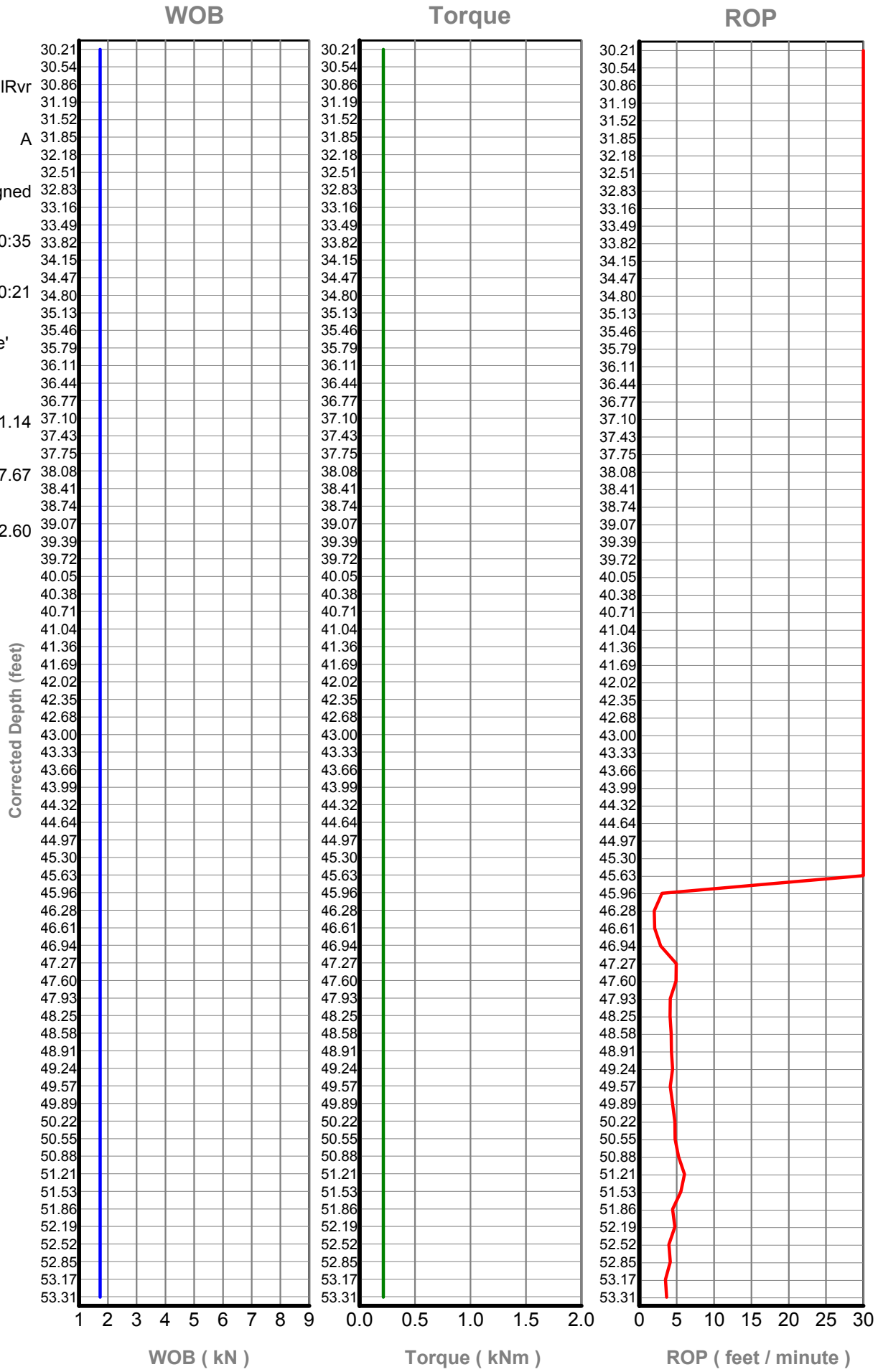
**End Date:**
4/20/2015 23:00:21

**Operator Note:**
'2.6 2.6 b Auto Complete'

**Northing:**
368,401.14

**Easting:**
253,277.67

**Tide (feet):**
2.60



## Hole: E15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:45:38 | 37.73 | 30.13 | 311 | 1.49 | 0.13 | 17.0 |
| 4/21/2015 2:45:39 | 38.06 | 30.46 | 312 | 1.45 | 0.13 | 17.0 |
| 4/21/2015 2:45:40 | 38.39 | 30.79 | 306 | 1.43 | 0.13 | 16.7 |
| 4/21/2015 2:45:41 | 38.71 | 31.11 | 316 | 1.47 | 0.13 | 17.3 |
| 4/21/2015 2:45:42 | 39.04 | 31.44 | 314 | 1.46 | 0.13 | 17.2 |
| 4/21/2015 2:45:43 | 39.37 | 31.77 | 309 | 1.45 | 0.13 | 16.9 |
| 4/21/2015 2:45:44 | 39.70 | 32.10 | 310 | 1.40 | 0.13 | 16.9 |
| 4/21/2015 2:45:46 | 40.03 | 32.43 | 310 | 1.46 | 0.13 | 16.9 |
| 4/21/2015 2:45:47 | 40.35 | 32.75 | 316 | 1.47 | 0.13 | 17.3 |
| 4/21/2015 2:45:48 | 40.68 | 33.08 | 312 | 1.46 | 0.13 | 17.1 |
| 4/21/2015 2:45:49 | 41.01 | 33.41 | 312 | 1.42 | 0.13 | 17.1 |
| 4/21/2015 2:45:50 | 41.34 | 33.74 | 309 | 1.44 | 0.13 | 16.9 |
| 4/21/2015 2:45:51 | 41.67 | 34.07 | 310 | 1.41 | 0.13 | 16.9 |
| 4/21/2015 2:45:52 | 41.99 | 34.39 | 312 | 1.50 | 0.13 | 17.1 |
| 4/21/2015 2:45:54 | 42.32 | 34.72 | 309 | 1.45 | 0.13 | 16.9 |
| 4/21/2015 2:45:55 | 42.65 | 35.05 | 309 | 1.43 | 0.13 | 16.9 |
| 4/21/2015 2:45:56 | 42.98 | 35.38 | 309 | 1.48 | 0.13 | 16.9 |
| 4/21/2015 2:45:57 | 43.31 | 35.71 | 311 | 1.48 | 0.13 | 17.0 |
| 4/21/2015 2:45:58 | 43.64 | 36.04 | 312 | 1.44 | 0.13 | 17.1 |
| 4/21/2015 2:46:00 | 43.96 | 36.36 | 308 | 1.47 | 0.13 | 16.8 |
| 4/21/2015 2:46:01 | 44.29 | 36.69 | 307 | 1.45 | 0.13 | 16.8 |
| 4/21/2015 2:46:02 | 44.62 | 37.02 | 304 | 1.45 | 0.13 | 16.6 |
| 4/21/2015 2:46:03 | 44.95 | 37.35 | 304 | 1.47 | 0.13 | 16.6 |
| 4/21/2015 2:46:04 | 45.28 | 37.68 | 306 | 1.49 | 0.13 | 16.7 |
| 4/21/2015 2:46:06 | 45.60 | 38.00 | 308 | 1.45 | 0.13 | 16.8 |
| 4/21/2015 2:46:07 | 45.93 | 38.33 | 309 | 1.49 | 0.13 | 16.9 |
| 4/21/2015 2:46:08 | 46.26 | 38.66 | 309 | 1.45 | 0.13 | 16.9 |
| 4/21/2015 2:46:09 | 46.59 | 38.99 | 306 | 1.47 | 0.13 | 16.8 |
| 4/21/2015 2:46:10 | 46.92 | 39.32 | 306 | 1.47 | 0.13 | 16.8 |
| 4/21/2015 2:46:11 | 47.24 | 39.64 | 309 | 1.43 | 0.13 | 16.9 |
| 4/21/2015 2:46:12 | 47.57 | 39.97 | 309 | 1.49 | 0.13 | 16.9 |
| 4/21/2015 2:46:13 | 47.90 | 40.30 | 305 | 1.45 | 0.13 | 16.7 |
| 4/21/2015 2:46:15 | 48.23 | 40.63 | 307 | 1.51 | 0.13 | 16.8 |
| 4/21/2015 2:47:00 | 48.56 | 40.96 | 31 | 1.67 | 1.03 | 1.7 |
| 4/21/2015 2:47:02 | 48.88 | 41.28 | 116 | 1.53 | 1.21 | 6.3 |
| 4/21/2015 2:47:04 | 49.21 | 41.61 | 160 | 1.51 | 0.92 | 8.8 |
| 4/21/2015 2:47:05 | 49.54 | 41.94 | 209 | 1.49 | 0.92 | 11.4 |
| 4/21/2015 2:47:27 | 49.87 | 42.27 | 83 | 1.53 | 0.98 | 4.5 |
| 4/21/2015 2:47:41 | 50.20 | 42.60 | 0 | 1.57 | 1.08 | 0.0 |
| 4/21/2015 2:47:43 | 50.53 | 42.93 | 54 | 1.59 | 1.19 | 3.0 |
| 4/21/2015 2:48:04 | 50.85 | 43.25 | 91 | 1.62 | 1.44 | 5.0 |
| 4/21/2015 2:49:14 | 51.18 | 43.58 | 120 | 1.63 | 1.08 | 6.5 |
| 4/21/2015 2:49:17 | 51.51 | 43.91 | 139 | 1.62 | 1.12 | 7.6 |
| 4/21/2015 2:50:11 | 51.84 | 44.24 | 0 | 1.63 | 1.22 | 0.0 |
| 4/21/2015 2:50:14 | 52.17 | 44.57 | 108 | 1.64 | 1.21 | 5.9 |
| 4/21/2015 2:51:53 | 52.49 | 44.89 | 0 | 1.65 | 1.19 | 0.0 |
| 4/21/2015 2:51:55 | 52.82 | 45.22 | 55 | 1.57 | 1.03 | 3.0 |
| 4/21/2015 2:51:56 | 53.15 | 45.55 | 193 | 1.64 | 1.00 | 10.5 |
| 4/21/2015 2:51:58 | 53.48 | 45.88 | 220 | 1.64 | 1.11 | 12.0 |
| 4/21/2015 2:53:18 | 53.81 | 46.21 | 16 | 1.63 | 1.09 | 0.9 |
| 4/21/2015 2:53:21 | 54.13 | 46.53 | 120 | 1.68 | 1.47 | 6.5 |
| 4/21/2015 2:53:24 | 54.46 | 46.86 | 115 | 1.66 | 1.12 | 6.3 |
| 4/21/2015 2:53:26 | 54.79 | 47.19 | 142 | 1.62 | 1.19 | 7.8 |
| 4/21/2015 2:54:15 | 55.12 | 47.52 | 12 | 1.63 | 1.21 | 0.7 |
| 4/21/2015 2:54:20 | 55.45 | 47.85 | 87 | 1.67 | 1.07 | 4.8 |
| 4/21/2015 2:54:23 | 55.77 | 48.17 | 111 | 1.67 | 1.08 | 6.1 |
| 4/21/2015 2:54:27 | 56.10 | 48.50 | 87 | 1.66 | 1.07 | 4.7 |
| 4/21/2015 2:54:31 | 56.43 | 48.83 | 87 | 1.67 | 1.03 | 4.8 |
| 4/21/2015 2:54:36 | 56.76 | 49.16 | 80 | 1.62 | 1.15 | 4.4 |
| 4/21/2015 2:54:40 | 57.09 | 49.49 | 72 | 1.69 | 1.13 | 4.0 |
| 4/21/2015 2:54:46 | 57.41 | 49.81 | 72 | 1.67 | 1.11 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 2:54:51 | 57.74 | 50.14 | 64 | 1.70 | 1.11 | 3.5 |
| 4/21/2015 | 2:54:57 | 58.07 | 50.47 | 61 | 1.69 | 1.13 | 3.3 |
| 4/21/2015 | 2:55:03 | 58.40 | 50.80 | 52 | 1.72 | 1.16 | 2.8 |
| 4/21/2015 | 2:55:10 | 58.73 | 51.13 | 53 | 1.70 | 1.16 | 2.9 |
| 4/21/2015 | 2:55:15 | 59.00 | 51.40 | 55 | 1.69 | 1.15 | 3.0 |

## E15 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:42:28

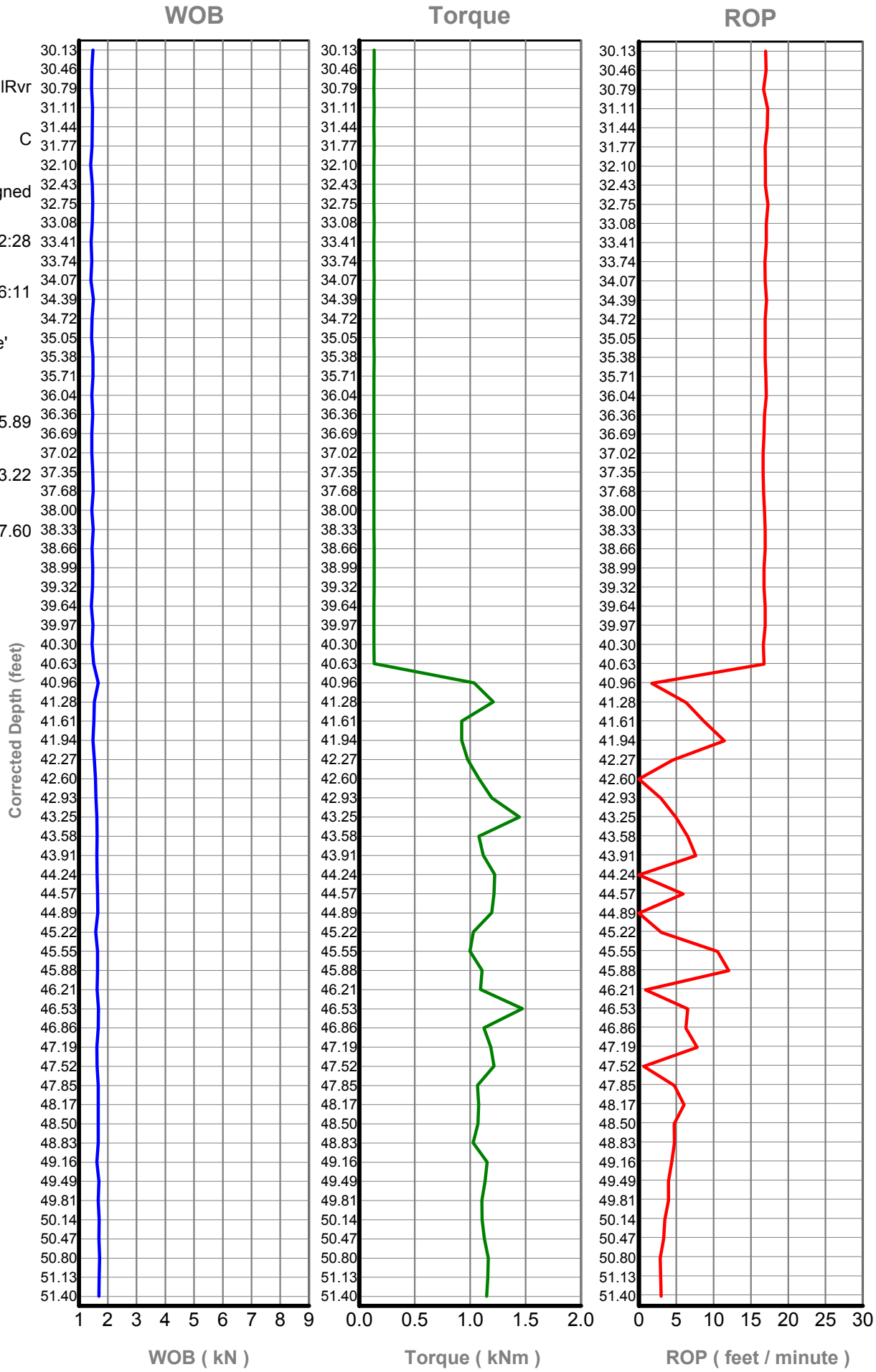
**End Date:**
4/21/2015 3:06:11

**Operator Note:**
'7.6 7.5 c Auto Complete'

**Northing:**
368,835.89

**Easting:**
253,103.22

**Tide (feet):**
7.60



## Hole: E150 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:45:16 | 32.48 | 30.08 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:45:16 | 32.81 | 30.41 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:45:16 | 33.14 | 30.74 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:45:17 | 33.46 | 31.06 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 22:45:17 | 33.79 | 31.39 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 22:45:17 | 34.12 | 31.72 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:45:18 | 34.45 | 32.05 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:18 | 34.78 | 32.38 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:18 | 35.11 | 32.71 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 22:45:19 | 35.43 | 33.03 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:45:19 | 35.76 | 33.36 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:45:19 | 36.09 | 33.69 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:20 | 36.42 | 34.02 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:20 | 36.75 | 34.35 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:20 | 37.07 | 34.67 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:21 | 37.40 | 35.00 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:45:21 | 37.73 | 35.33 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:45:21 | 38.06 | 35.66 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:45:22 | 38.39 | 35.99 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 22:45:23 | 38.71 | 36.31 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 22:45:23 | 39.04 | 36.64 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:45:23 | 39.37 | 36.97 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:24 | 39.70 | 37.30 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:24 | 40.03 | 37.63 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:45:24 | 40.35 | 37.95 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:45:24 | 40.68 | 38.28 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:45:25 | 41.01 | 38.61 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:45:25 | 41.34 | 38.94 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:45:25 | 41.67 | 39.27 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:26 | 41.99 | 39.59 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:26 | 42.32 | 39.92 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/20/2015 22:45:26 | 42.65 | 40.25 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:45:27 | 42.98 | 40.58 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 22:45:27 | 43.31 | 40.91 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 22:45:27 | 43.64 | 41.24 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:45:28 | 43.96 | 41.56 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 22:45:28 | 44.29 | 41.89 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 22:45:28 | 44.62 | 42.22 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:45:29 | 44.95 | 42.55 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:45:29 | 45.28 | 42.88 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:45:29 | 45.60 | 43.20 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 22:45:30 | 45.93 | 43.53 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:45:30 | 46.26 | 43.86 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 22:45:30 | 46.59 | 44.19 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:45:31 | 46.92 | 44.52 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:45:31 | 47.24 | 44.84 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:45:54 | 47.57 | 45.17 | 41 | 1.73 | 0.21 | 2.2 |
| 4/20/2015 22:45:59 | 47.90 | 45.50 | 76 | 1.73 | 0.21 | 4.1 |
| 4/20/2015 22:46:04 | 48.23 | 45.83 | 72 | 1.73 | 0.21 | 4.0 |
| 4/20/2015 22:46:09 | 48.56 | 46.16 | 81 | 1.73 | 0.21 | 4.4 |
| 4/20/2015 22:46:14 | 48.88 | 46.48 | 73 | 1.73 | 0.21 | 4.0 |
| 4/20/2015 22:46:18 | 49.21 | 46.81 | 81 | 1.73 | 0.21 | 4.4 |
| 4/20/2015 22:46:24 | 49.54 | 47.14 | 67 | 1.73 | 0.21 | 3.7 |
| 4/20/2015 22:46:29 | 49.87 | 47.47 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 22:46:35 | 50.20 | 47.80 | 68 | 1.73 | 0.21 | 3.7 |
| 4/20/2015 22:46:39 | 50.47 | 48.07 | 76 | 1.73 | 0.21 | 4.2 |

## E150 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:41:56

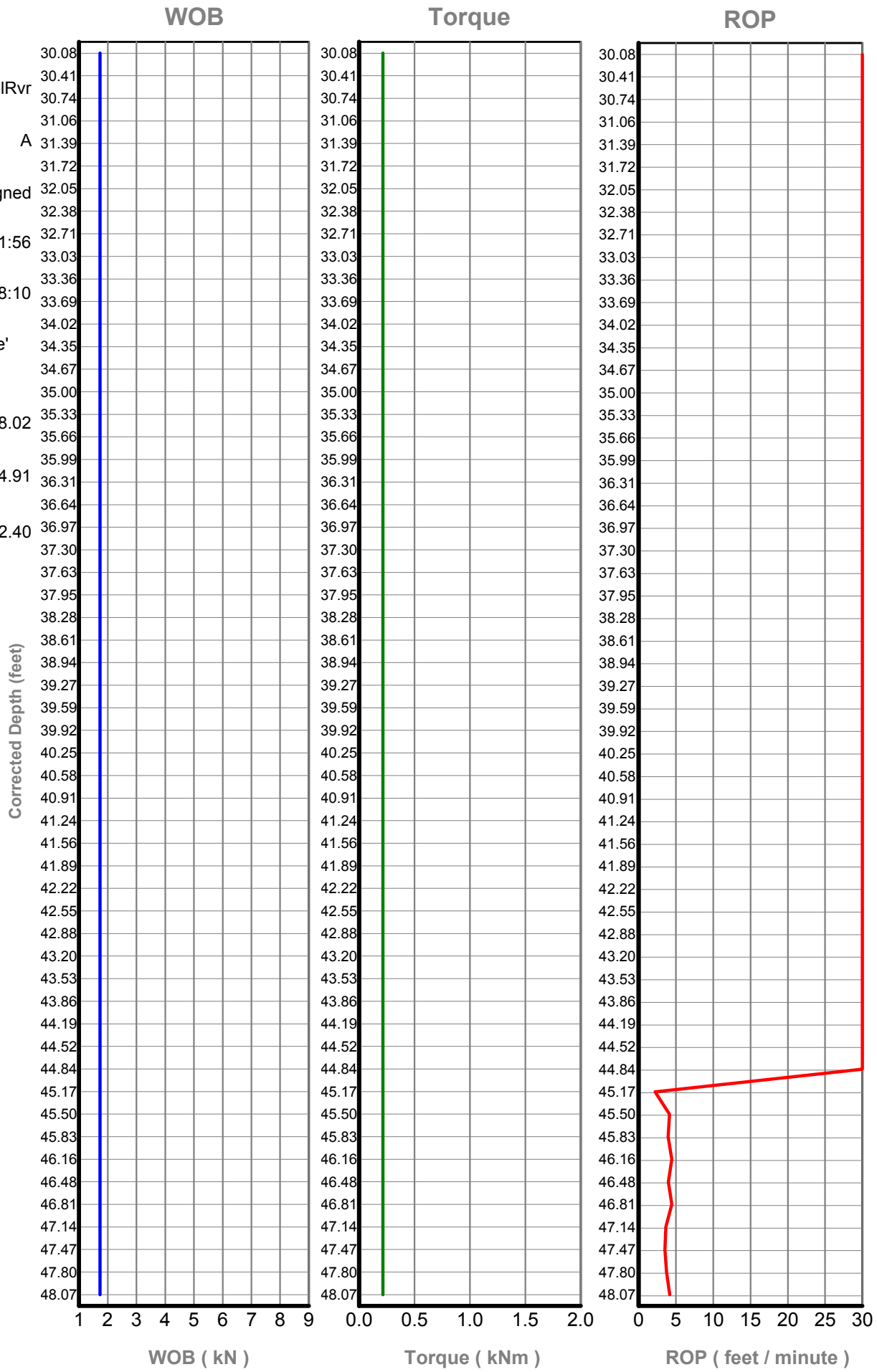
**End Date:**
4/20/2015 22:48:10

**Operator Note:**
'2.4 2.4 b Auto Complete'

**Northing:**
368,438.02

**Easting:**
253,324.91

**Tide (feet):**
2.40



## Hole: E151 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:46:10 | 32.48 | 30.08 | 341 | 1.51 | 0.13 | 18.7 |
| 4/20/2015 22:46:11 | 32.81 | 30.41 | 341 | 1.49 | 0.13 | 18.7 |
| 4/20/2015 22:46:12 | 33.14 | 30.74 | 343 | 1.48 | 0.13 | 18.8 |
| 4/20/2015 22:46:13 | 33.46 | 31.06 | 343 | 1.49 | 0.13 | 18.8 |
| 4/20/2015 22:46:14 | 33.79 | 31.39 | 339 | 1.49 | 0.13 | 18.5 |
| 4/20/2015 22:46:15 | 34.12 | 31.72 | 338 | 1.48 | 0.13 | 18.5 |
| 4/20/2015 22:46:17 | 34.45 | 32.05 | 344 | 1.49 | 0.13 | 18.8 |
| 4/20/2015 22:46:18 | 34.78 | 32.38 | 341 | 1.50 | 0.13 | 18.7 |
| 4/20/2015 22:46:19 | 35.11 | 32.71 | 344 | 1.50 | 0.13 | 18.8 |
| 4/20/2015 22:46:20 | 35.43 | 33.03 | 344 | 1.41 | 0.13 | 18.8 |
| 4/20/2015 22:46:21 | 35.76 | 33.36 | 341 | 1.50 | 0.13 | 18.7 |
| 4/20/2015 22:46:22 | 36.09 | 33.69 | 338 | 1.51 | 0.13 | 18.5 |
| 4/20/2015 22:46:23 | 36.42 | 34.02 | 341 | 1.48 | 0.13 | 18.7 |
| 4/20/2015 22:46:24 | 36.75 | 34.35 | 331 | 1.49 | 0.13 | 18.1 |
| 4/20/2015 22:46:25 | 37.07 | 34.67 | 338 | 1.51 | 0.13 | 18.5 |
| 4/20/2015 22:46:26 | 37.40 | 35.00 | 329 | 1.49 | 0.13 | 18.0 |
| 4/20/2015 22:46:27 | 37.73 | 35.33 | 332 | 1.50 | 0.13 | 18.1 |
| 4/20/2015 22:46:28 | 38.06 | 35.66 | 338 | 1.51 | 0.13 | 18.5 |
| 4/20/2015 22:46:29 | 38.39 | 35.99 | 341 | 1.50 | 0.13 | 18.7 |
| 4/20/2015 22:46:30 | 38.71 | 36.31 | 341 | 1.50 | 0.13 | 18.7 |
| 4/20/2015 22:46:31 | 39.04 | 36.64 | 343 | 1.46 | 0.13 | 18.8 |
| 4/20/2015 22:46:32 | 39.37 | 36.97 | 343 | 1.51 | 0.13 | 18.8 |
| 4/20/2015 22:46:33 | 39.70 | 37.30 | 334 | 1.49 | 0.13 | 18.2 |
| 4/20/2015 22:46:34 | 40.03 | 37.63 | 332 | 1.46 | 0.13 | 18.1 |
| 4/20/2015 22:46:35 | 40.35 | 37.95 | 335 | 1.50 | 0.14 | 18.3 |
| 4/20/2015 22:46:36 | 40.68 | 38.28 | 347 | 1.49 | 0.13 | 19.0 |
| 4/20/2015 22:46:38 | 41.01 | 38.61 | 343 | 1.49 | 0.13 | 18.7 |
| 4/20/2015 22:46:39 | 41.34 | 38.94 | 336 | 1.50 | 0.13 | 18.4 |
| 4/20/2015 22:46:40 | 41.67 | 39.27 | 336 | 1.51 | 0.13 | 18.4 |
| 4/20/2015 22:46:41 | 41.99 | 39.59 | 339 | 1.49 | 0.13 | 18.5 |
| 4/20/2015 22:46:42 | 42.32 | 39.92 | 342 | 1.51 | 0.13 | 18.7 |
| 4/20/2015 22:46:43 | 42.65 | 40.25 | 340 | 1.49 | 0.13 | 18.6 |
| 4/20/2015 22:46:44 | 42.98 | 40.58 | 341 | 1.24 | 0.13 | 18.7 |
| 4/20/2015 22:46:45 | 43.31 | 40.91 | 333 | 1.50 | 0.13 | 18.2 |
| 4/20/2015 22:46:46 | 43.64 | 41.24 | 339 | 1.50 | 0.13 | 18.5 |
| 4/20/2015 22:46:47 | 43.96 | 41.56 | 332 | 1.51 | 0.13 | 18.2 |
| 4/20/2015 22:46:48 | 44.29 | 41.89 | 336 | 1.49 | 0.13 | 18.4 |
| 4/20/2015 22:46:49 | 44.62 | 42.22 | 340 | 1.49 | 0.13 | 18.6 |
| 4/20/2015 22:46:50 | 44.95 | 42.55 | 339 | 1.48 | 0.13 | 18.6 |
| 4/20/2015 22:46:51 | 45.28 | 42.88 | 331 | 1.50 | 0.13 | 18.1 |
| 4/20/2015 22:46:52 | 45.60 | 43.20 | 330 | 1.49 | 0.13 | 18.0 |
| 4/20/2015 22:46:53 | 45.93 | 43.53 | 336 | 1.47 | 0.13 | 18.4 |
| 4/20/2015 22:46:54 | 46.26 | 43.86 | 332 | 1.50 | 0.13 | 18.2 |
| 4/20/2015 22:46:55 | 46.59 | 44.19 | 335 | 1.51 | 0.13 | 18.3 |
| 4/20/2015 22:47:28 | 46.92 | 44.52 | 17 | 1.52 | 0.97 | 0.9 |
| 4/20/2015 22:47:33 | 47.24 | 44.84 | 46 | 1.51 | 0.96 | 2.5 |
| 4/20/2015 22:47:34 | 47.57 | 45.17 | 176 | 1.53 | 1.02 | 9.6 |
| 4/20/2015 22:49:10 | 47.90 | 45.50 | 40 | 1.59 | 0.96 | 2.2 |
| 4/20/2015 22:49:12 | 48.23 | 45.83 | 145 | 1.65 | 1.09 | 7.9 |
| 4/20/2015 22:49:22 | 48.56 | 46.16 | 84 | 1.66 | 1.01 | 4.6 |
| 4/20/2015 22:49:31 | 48.88 | 46.48 | 37 | 1.68 | 1.05 | 2.0 |
| 4/20/2015 22:49:40 | 49.21 | 46.81 | 46 | 1.68 | 0.96 | 2.5 |
| 4/20/2015 22:49:50 | 49.54 | 47.14 | 40 | 1.68 | 1.12 | 2.2 |
| 4/20/2015 22:49:55 | 49.72 | 47.32 | 35 | 1.67 | 1.08 | 1.9 |

## E151 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:43:13

**End Date:**
4/20/2015 22:51:21

**Operator Note:**
'2.4 2.4 c Auto Complete'

**Northing:**
368,487.08

**Easting:**
253,381.84

**Tide (feet):**
2.40



## Hole: E152 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:43:57 | 34.45 | 30.05 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:43:57 | 34.78 | 30.38 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/20/2015 17:43:57 | 35.11 | 30.71 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:43:58 | 35.43 | 31.03 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:43:58 | 35.76 | 31.36 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:43:58 | 36.09 | 31.69 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:43:58 | 36.42 | 32.02 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:43:59 | 36.75 | 32.35 | 1,116 | 0.28 | 0.32 | 61.1 |
| 4/20/2015 17:43:59 | 37.07 | 32.67 | 1,116 | 0.28 | 0.32 | 61.1 |
| 4/20/2015 17:43:59 | 37.40 | 33.00 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:44:00 | 37.73 | 33.33 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/20/2015 17:44:00 | 38.06 | 33.66 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:44:00 | 38.39 | 33.99 | 1,107 | 0.29 | 0.32 | 60.5 |
| 4/20/2015 17:44:01 | 38.71 | 34.31 | 1,107 | 0.29 | 0.32 | 60.5 |
| 4/20/2015 17:44:01 | 39.04 | 34.64 | 1,107 | 0.31 | 0.32 | 60.5 |
| 4/20/2015 17:44:01 | 39.37 | 34.97 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/20/2015 17:44:02 | 39.70 | 35.30 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/20/2015 17:44:02 | 40.03 | 35.63 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/20/2015 17:44:02 | 40.35 | 35.95 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/20/2015 17:44:02 | 40.68 | 36.28 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 17:44:03 | 41.01 | 36.61 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:44:03 | 41.34 | 36.94 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:44:03 | 41.67 | 37.27 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 17:44:04 | 41.99 | 37.59 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/20/2015 17:44:05 | 42.32 | 37.92 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/20/2015 17:44:04 | 42.65 | 38.25 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:44:05 | 42.98 | 38.58 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 17:44:05 | 43.31 | 38.91 | 1,111 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 17:44:06 | 43.64 | 39.24 | 1,098 | 0.22 | 0.30 | 60.1 |
| 4/20/2015 17:44:06 | 43.96 | 39.56 | 1,098 | 0.22 | 0.30 | 60.1 |
| 4/20/2015 17:44:06 | 44.29 | 39.89 | 1,108 | 0.28 | 0.31 | 60.6 |
| 4/20/2015 17:44:07 | 44.62 | 40.22 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:44:07 | 44.95 | 40.55 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:44:07 | 45.28 | 40.88 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:44:08 | 45.60 | 41.20 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:44:08 | 45.93 | 41.53 | 1,093 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 17:44:08 | 46.26 | 41.86 | 1,108 | 0.28 | 0.31 | 60.6 |
| 4/20/2015 17:44:09 | 46.59 | 42.19 | 1,108 | 0.28 | 0.31 | 60.6 |
| 4/20/2015 17:44:09 | 46.92 | 42.52 | 1,096 | 0.28 | 0.31 | 59.9 |
| 4/20/2015 17:44:09 | 47.24 | 42.84 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/20/2015 17:44:10 | 47.57 | 43.17 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/20/2015 17:44:10 | 47.90 | 43.50 | 1,093 | 0.28 | 0.33 | 59.8 |
| 4/20/2015 17:44:36 | 48.23 | 43.83 | 0 | 2.52 | 0.37 | 0.0 |
| 4/20/2015 17:44:39 | 48.56 | 44.16 | 115 | 4.02 | 0.40 | 6.3 |
| 4/20/2015 17:44:41 | 48.88 | 44.48 | 150 | 3.97 | 0.43 | 8.2 |
| 4/20/2015 17:44:46 | 49.21 | 44.81 | 70 | 6.83 | 0.37 | 3.8 |
| 4/20/2015 17:44:47 | 49.54 | 45.14 | 137 | 4.38 | 0.37 | 7.5 |
| 4/20/2015 17:44:48 | 49.87 | 45.47 | 289 | 3.24 | 0.37 | 15.8 |
| 4/20/2015 17:44:49 | 50.20 | 45.80 | 353 | 3.96 | 0.37 | 19.3 |
| 4/20/2015 17:44:50 | 50.53 | 46.13 | 414 | 4.61 | 0.37 | 22.6 |
| 4/20/2015 17:44:51 | 50.85 | 46.45 | 364 | 4.24 | 0.37 | 19.9 |
| 4/20/2015 17:44:52 | 51.18 | 46.78 | 283 | 3.01 | 0.37 | 15.5 |
| 4/20/2015 17:44:54 | 51.51 | 47.11 | 243 | 4.21 | 0.39 | 13.3 |
| 4/20/2015 17:45:00 | 51.84 | 47.44 | 53 | 4.07 | 0.40 | 2.9 |
| 4/20/2015 17:45:06 | 52.17 | 47.77 | 58 | 3.16 | 0.40 | 3.2 |
| 4/20/2015 17:45:12 | 52.49 | 48.09 | 61 | 3.24 | 0.39 | 3.3 |
| 4/20/2015 17:45:19 | 52.82 | 48.42 | 53 | 3.64 | 0.40 | 2.9 |
| 4/20/2015 17:45:26 | 53.15 | 48.75 | 51 | 2.95 | 0.40 | 2.8 |
| 4/20/2015 17:45:27 | 53.24 | 48.84 | 52 | 3.61 | 0.40 | 2.8 |

## E152 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 17:41:58

**End Date:**
4/20/2015 17:46:51

**Operator Note:**
'4.4 4.6 b Rock@c52'
Rock@52"

**Northing:**
368,534.18

**Easting:**
253,444.62

**Tide (feet):**
4.40



## Hole: E153 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:49:09 | 34.45 | 30.15 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:49:09 | 34.78 | 30.48 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 17:49:09 | 35.11 | 30.81 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 17:49:10 | 35.43 | 31.13 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 17:49:10 | 35.76 | 31.46 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 17:49:10 | 36.09 | 31.79 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 17:49:11 | 36.42 | 32.12 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 17:49:11 | 36.75 | 32.45 | 1,090 | 0.28 | 0.32 | 59.6 |
| 4/20/2015 17:49:11 | 37.07 | 32.77 | 1,078 | 0.29 | 0.31 | 58.9 |
| 4/20/2015 17:49:12 | 37.40 | 33.10 | 1,078 | 0.29 | 0.31 | 58.9 |
| 4/20/2015 17:49:12 | 37.73 | 33.43 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 17:49:12 | 38.06 | 33.76 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:49:13 | 38.39 | 34.09 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:49:13 | 38.71 | 34.41 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/20/2015 17:49:13 | 39.04 | 34.74 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/20/2015 17:49:13 | 39.37 | 35.07 | 1,080 | 0.29 | 0.31 | 59.1 |
| 4/20/2015 17:49:14 | 39.70 | 35.40 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/20/2015 17:49:14 | 40.03 | 35.73 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/20/2015 17:49:14 | 40.35 | 36.05 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/20/2015 17:49:15 | 40.68 | 36.38 | 1,077 | 0.29 | 0.31 | 58.9 |
| 4/20/2015 17:49:15 | 41.01 | 36.71 | 1,077 | 0.29 | 0.31 | 58.9 |
| 4/20/2015 17:49:15 | 41.34 | 37.04 | 1,089 | 0.28 | 0.31 | 59.5 |
| 4/20/2015 17:49:16 | 41.67 | 37.37 | 1,089 | 0.28 | 0.31 | 59.5 |
| 4/20/2015 17:49:16 | 41.99 | 37.69 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/20/2015 17:49:17 | 42.32 | 38.02 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/20/2015 17:49:17 | 42.65 | 38.35 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/20/2015 17:49:17 | 42.98 | 38.68 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 17:49:18 | 43.31 | 39.01 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 17:49:18 | 43.64 | 39.34 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 17:49:18 | 43.96 | 39.66 | 1,085 | 0.28 | 0.31 | 59.3 |
| 4/20/2015 17:49:19 | 44.29 | 39.99 | 1,079 | 0.28 | 0.32 | 59.0 |
| 4/20/2015 17:49:19 | 44.62 | 40.32 | 1,079 | 0.28 | 0.32 | 59.0 |
| 4/20/2015 17:49:19 | 44.95 | 40.65 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 17:49:20 | 45.28 | 40.98 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 17:49:20 | 45.60 | 41.30 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 17:49:20 | 45.93 | 41.63 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/20/2015 17:49:21 | 46.26 | 41.96 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/20/2015 17:49:21 | 46.59 | 42.29 | 1,063 | 0.28 | 0.32 | 58.1 |
| 4/20/2015 17:49:21 | 46.92 | 42.62 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:49:22 | 47.24 | 42.94 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 17:49:22 | 47.57 | 43.27 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 17:49:22 | 47.90 | 43.60 | 1,069 | 0.26 | 0.38 | 58.5 |
| 4/20/2015 17:49:33 | 48.23 | 43.93 | 47 | 3.14 | 0.34 | 2.6 |
| 4/20/2015 17:49:36 | 48.56 | 44.26 | 149 | 5.08 | 0.40 | 8.2 |
| 4/20/2015 17:49:39 | 48.88 | 44.58 | 147 | 3.86 | 0.38 | 8.1 |
| 4/20/2015 17:49:40 | 49.21 | 44.91 | 192 | 2.68 | 0.37 | 10.5 |
| 4/20/2015 17:49:40 | 49.54 | 45.24 | 239 | 3.82 | 0.36 | 13.0 |
| 4/20/2015 17:49:41 | 49.87 | 45.57 | 329 | 2.01 | 0.33 | 18.0 |
| 4/20/2015 17:49:41 | 50.20 | 45.90 | 453 | 2.44 | 0.36 | 24.8 |
| 4/20/2015 17:49:42 | 50.53 | 46.23 | 549 | 3.41 | 0.38 | 30.0 |
| 4/20/2015 17:49:44 | 50.85 | 46.55 | 355 | 2.52 | 0.37 | 19.4 |
| 4/20/2015 17:49:45 | 51.18 | 46.88 | 306 | 4.04 | 0.39 | 16.7 |
| 4/20/2015 17:50:08 | 51.51 | 47.21 | 52 | 4.41 | 0.39 | 2.8 |
| 4/20/2015 17:50:14 | 51.84 | 47.54 | 63 | 3.69 | 0.40 | 3.5 |
| 4/20/2015 17:50:19 | 52.17 | 47.87 | 66 | 3.83 | 0.39 | 3.6 |
| 4/20/2015 17:50:23 | 52.49 | 48.19 | 81 | 4.08 | 0.39 | 4.4 |
| 4/20/2015 17:50:29 | 52.82 | 48.52 | 57 | 3.81 | 0.40 | 3.1 |
| 4/20/2015 17:50:37 | 53.15 | 48.85 | 49 | 3.04 | 0.40 | 2.7 |
| 4/20/2015 17:50:44 | 53.48 | 49.18 | 52 | 4.26 | 0.40 | 2.8 |
| 4/20/2015 17:50:50 | 53.81 | 49.51 | 69 | 7.19 | 0.40 | 3.8 |
| 4/20/2015 17:50:50 | 53.88 | 49.58 | 65 | 3.86 | 0.39 | 3.6 |

## E153 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 17:47:35

**End Date:**
4/20/2015 17:52:47

**Operator Note:**
'4.3 4.5 b Auto Complete'

**Northing:**
368,574.90

**Easting:**
253,499.20

**Tide (feet):**
4.30



## Hole: E154 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 17:46:07 | 34.45 | 30.05 | 407 | 1.49 | 0.26 | 22.2 |
| 4/20/2015 17:46:08 | 34.78 | 30.38 | 407 | 1.46 | 0.26 | 22.2 |
| 4/20/2015 17:46:09 | 35.11 | 30.71 | 401 | 1.47 | 0.26 | 22.0 |
| 4/20/2015 17:46:10 | 35.43 | 31.03 | 407 | 1.38 | 0.25 | 22.3 |
| 4/20/2015 17:46:10 | 35.76 | 31.36 | 389 | 1.51 | 0.25 | 21.3 |
| 4/20/2015 17:46:11 | 36.09 | 31.69 | 390 | 1.43 | 0.25 | 21.3 |
| 4/20/2015 17:46:12 | 36.42 | 32.02 | 401 | 1.50 | 0.25 | 21.9 |
| 4/20/2015 17:46:13 | 36.75 | 32.35 | 396 | 1.34 | 0.25 | 21.6 |
| 4/20/2015 17:46:14 | 37.07 | 32.67 | 401 | 1.74 | 0.28 | 21.9 |
| 4/20/2015 17:46:15 | 37.40 | 33.00 | 410 | 1.33 | 0.25 | 22.4 |
| 4/20/2015 17:46:16 | 37.73 | 33.33 | 417 | 1.43 | 0.26 | 22.8 |
| 4/20/2015 17:46:17 | 38.06 | 33.66 | 422 | 1.53 | 0.25 | 23.1 |
| 4/20/2015 17:46:18 | 38.39 | 33.99 | 410 | 1.34 | 0.26 | 22.4 |
| 4/20/2015 17:46:18 | 38.71 | 34.31 | 410 | 1.42 | 0.26 | 22.4 |
| 4/20/2015 17:46:19 | 39.04 | 34.64 | 405 | 1.40 | 0.25 | 22.1 |
| 4/20/2015 17:46:20 | 39.37 | 34.97 | 402 | 1.44 | 0.26 | 22.0 |
| 4/20/2015 17:46:21 | 39.70 | 35.30 | 402 | 1.51 | 0.25 | 22.0 |
| 4/20/2015 17:46:22 | 40.03 | 35.63 | 399 | 1.36 | 0.26 | 21.8 |
| 4/20/2015 17:46:23 | 40.35 | 35.95 | 405 | 1.46 | 0.26 | 22.1 |
| 4/20/2015 17:46:24 | 40.68 | 36.28 | 397 | 1.47 | 0.26 | 21.7 |
| 4/20/2015 17:46:24 | 41.01 | 36.61 | 402 | 1.48 | 0.25 | 22.0 |
| 4/20/2015 17:46:26 | 41.34 | 36.94 | 399 | 1.47 | 0.25 | 21.8 |
| 4/20/2015 17:46:27 | 41.67 | 37.27 | 402 | 1.38 | 0.25 | 22.0 |
| 4/20/2015 17:46:28 | 41.99 | 37.59 | 402 | 1.43 | 0.25 | 22.0 |
| 4/20/2015 17:46:28 | 42.32 | 37.92 | 400 | 1.47 | 0.25 | 21.9 |
| 4/20/2015 17:46:29 | 42.65 | 38.25 | 400 | 1.38 | 0.25 | 21.9 |
| 4/20/2015 17:46:30 | 42.98 | 38.58 | 393 | 1.49 | 0.25 | 21.5 |
| 4/20/2015 17:46:31 | 43.31 | 38.91 | 396 | 1.51 | 0.26 | 21.6 |
| 4/20/2015 17:46:32 | 43.64 | 39.24 | 403 | 1.42 | 0.25 | 22.0 |
| 4/20/2015 17:46:33 | 43.96 | 39.56 | 402 | 1.42 | 0.26 | 22.0 |
| 4/20/2015 17:46:34 | 44.29 | 39.89 | 399 | 1.43 | 0.26 | 21.8 |
| 4/20/2015 17:46:34 | 44.62 | 40.22 | 385 | 1.66 | 0.25 | 21.1 |
| 4/20/2015 17:46:35 | 44.95 | 40.55 | 391 | 1.40 | 0.25 | 21.4 |
| 4/20/2015 17:46:37 | 45.28 | 40.88 | 395 | 1.39 | 0.26 | 21.6 |
| 4/20/2015 17:46:37 | 45.60 | 41.20 | 398 | 1.47 | 0.26 | 21.8 |
| 4/20/2015 17:46:38 | 45.93 | 41.53 | 406 | 1.54 | 0.26 | 22.2 |
| 4/20/2015 17:46:39 | 46.26 | 41.86 | 394 | 1.36 | 0.25 | 21.5 |
| 4/20/2015 17:46:40 | 46.59 | 42.19 | 383 | 1.53 | 0.26 | 20.9 |
| 4/20/2015 17:46:41 | 46.92 | 42.52 | 383 | 1.45 | 0.25 | 20.9 |
| 4/20/2015 17:46:42 | 47.24 | 42.84 | 397 | 1.47 | 0.25 | 21.7 |
| 4/20/2015 17:46:43 | 47.57 | 43.17 | 397 | 1.54 | 0.25 | 21.7 |
| 4/20/2015 17:46:43 | 47.90 | 43.50 | 396 | 1.34 | 0.25 | 21.7 |
| 4/20/2015 17:46:44 | 48.23 | 43.83 | 403 | 1.55 | 0.25 | 22.0 |
| 4/20/2015 17:46:45 | 48.56 | 44.16 | 403 | 1.47 | 0.25 | 22.0 |
| 4/20/2015 17:46:47 | 48.88 | 44.48 | 399 | 1.35 | 0.25 | 21.8 |
| 4/20/2015 17:46:47 | 49.21 | 44.81 | 399 | 1.38 | 0.25 | 21.8 |
| 4/20/2015 17:46:48 | 49.54 | 45.14 | 393 | 1.42 | 0.25 | 21.5 |
| 4/20/2015 17:46:49 | 49.87 | 45.47 | 396 | 1.38 | 0.25 | 21.7 |
| 4/20/2015 17:46:50 | 50.20 | 45.80 | 397 | 1.68 | 0.25 | 21.7 |
| 4/20/2015 17:47:52 | 50.53 | 46.13 | 23 | 1.68 | 1.17 | 1.2 |
| 4/20/2015 17:47:53 | 50.85 | 46.45 | 161 | 1.70 | 0.96 | 8.8 |
| 4/20/2015 17:47:54 | 51.18 | 46.78 | 246 | 1.69 | 1.03 | 13.4 |
| 4/20/2015 17:47:56 | 51.51 | 47.11 | 276 | 1.49 | 0.88 | 15.1 |
| 4/20/2015 17:47:57 | 51.84 | 47.44 | 278 | 1.64 | 0.97 | 15.2 |
| 4/20/2015 17:47:58 | 52.17 | 47.77 | 246 | 1.72 | 1.00 | 13.5 |
| 4/20/2015 17:48:01 | 52.49 | 48.09 | 155 | 1.74 | 1.15 | 8.5 |
| 4/20/2015 17:48:03 | 52.82 | 48.42 | 205 | 1.72 | 1.10 | 11.2 |
| 4/20/2015 17:48:04 | 53.15 | 48.75 | 228 | 1.72 | 1.01 | 12.5 |
| 4/20/2015 17:48:07 | 53.48 | 49.08 | 79 | 1.70 | 1.20 | 4.3 |
| 4/20/2015 17:48:09 | 53.81 | 49.41 | 177 | 1.72 | 1.11 | 9.7 |
| 4/20/2015 17:48:11 | 54.13 | 49.73 | 228 | 1.72 | 1.02 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 17:48:12 | 54.46 | 50.06 | 222 | 1.79 | 1.40 | 12.1 |
| 4/20/2015 | 17:48:14 | 54.79 | 50.39 | 230 | 1.73 | 1.20 | 12.6 |
| 4/20/2015 | 17:48:15 | 55.12 | 50.72 | 232 | 1.79 | 0.97 | 12.7 |
| 4/20/2015 | 17:48:17 | 55.45 | 51.05 | 221 | 1.81 | 1.01 | 12.1 |
| 4/20/2015 | 17:48:26 | 55.77 | 51.37 | 30 | 1.85 | 0.95 | 1.7 |
| 4/20/2015 | 17:48:37 | 56.10 | 51.70 | 35 | 1.85 | 0.94 | 1.9 |
| 4/20/2015 | 17:48:48 | 56.43 | 52.03 | 29 | 1.85 | 0.98 | 1.6 |
| 4/20/2015 | 17:49:00 | 56.76 | 52.36 | 26 | 1.84 | 0.86 | 1.4 |
| 4/20/2015 | 17:49:13 | 57.09 | 52.69 | 37 | 1.85 | 1.01 | 2.0 |
| 4/20/2015 | 17:49:19 | 57.25 | 52.85 | 28 | 1.24 | 1.08 | 1.5 |

## E154 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 17:44:05

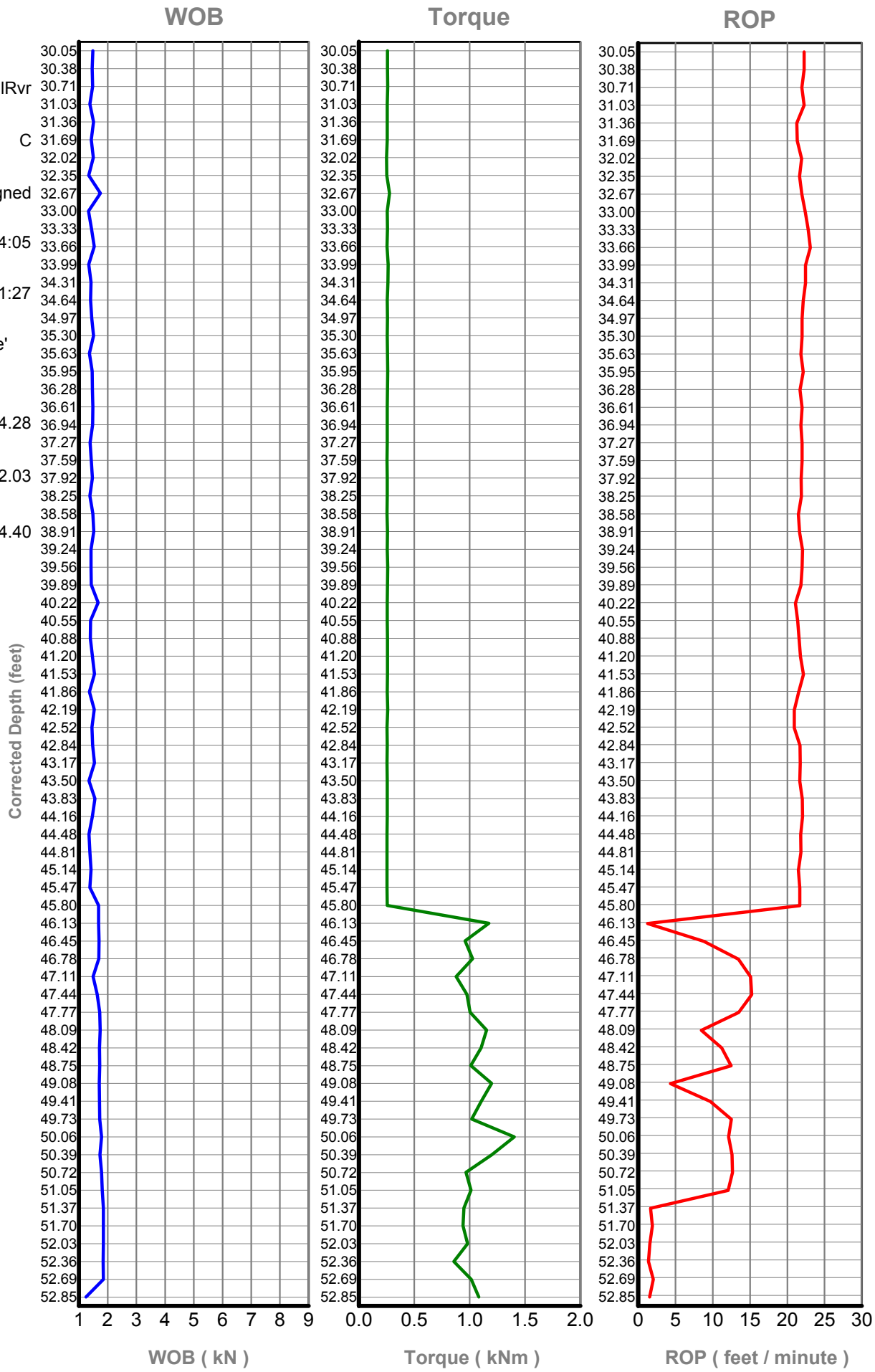
**End Date:**
4/20/2015 17:51:27

**Operator Note:**
'4.4 4.6 c Auto Complete'

**Northing:**
368,614.28

**Easting:**
253,552.03

**Tide (feet):**
4.40



## Hole: E155 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:38:42 | 32.48 | 30.18 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:38:43 | 32.81 | 30.51 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:43 | 33.14 | 30.84 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:43 | 33.46 | 31.16 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:38:44 | 33.79 | 31.49 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:38:44 | 34.12 | 31.82 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:38:44 | 34.45 | 32.15 | 1,057 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 9:38:45 | 34.78 | 32.48 | 1,057 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 9:38:45 | 35.11 | 32.81 | 1,057 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 9:38:45 | 35.43 | 33.13 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:38:46 | 35.76 | 33.46 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:38:46 | 36.09 | 33.79 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:38:46 | 36.42 | 34.12 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:38:47 | 36.75 | 34.45 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:38:47 | 37.07 | 34.77 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:38:47 | 37.40 | 35.10 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:48 | 37.73 | 35.43 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:48 | 38.06 | 35.76 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:48 | 38.39 | 36.09 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:38:58 | 38.71 | 36.41 | 39 | 0.43 | 0.46 | 2.2 |
| 4/20/2015 9:38:58 | 39.04 | 36.74 | 236 | 0.43 | 0.46 | 12.9 |
| 4/20/2015 9:38:59 | 39.37 | 37.07 | 236 | 0.43 | 0.46 | 12.9 |
| 4/20/2015 9:38:59 | 39.70 | 37.40 | 236 | 0.43 | 0.46 | 12.9 |
| 4/20/2015 9:38:59 | 40.03 | 37.73 | 236 | 0.43 | 0.46 | 12.9 |
| 4/20/2015 9:38:59 | 40.35 | 38.05 | 461 | 0.43 | 0.46 | 25.2 |
| 4/20/2015 9:39:00 | 40.68 | 38.38 | 650 | 0.43 | 0.46 | 35.5 |
| 4/20/2015 9:39:00 | 41.01 | 38.71 | 650 | 0.43 | 0.46 | 35.5 |
| 4/20/2015 9:39:00 | 41.34 | 39.04 | 650 | 0.43 | 0.46 | 35.5 |
| 4/20/2015 9:39:01 | 41.67 | 39.37 | 863 | 0.43 | 0.46 | 47.2 |
| 4/20/2015 9:39:01 | 41.99 | 39.69 | 863 | 0.43 | 0.46 | 47.2 |
| 4/20/2015 9:39:01 | 42.32 | 40.02 | 1,042 | 0.43 | 0.46 | 57.0 |
| 4/20/2015 9:39:02 | 42.65 | 40.35 | 1,060 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:39:03 | 42.98 | 40.68 | 1,060 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:39:03 | 43.31 | 41.01 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:39:03 | 43.64 | 41.34 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:39:04 | 43.96 | 41.66 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:39:04 | 44.29 | 41.99 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:39:04 | 44.62 | 42.32 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:05 | 44.95 | 42.65 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:05 | 45.28 | 42.98 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:05 | 45.60 | 43.30 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:06 | 45.93 | 43.63 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:06 | 46.26 | 43.96 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:06 | 46.59 | 44.29 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:06 | 46.92 | 44.62 | 1,065 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:39:07 | 47.24 | 44.94 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:07 | 47.57 | 45.27 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:07 | 47.90 | 45.60 | 1,054 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:39:08 | 48.23 | 45.93 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:39:08 | 48.56 | 46.26 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:39:08 | 48.88 | 46.58 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:39:09 | 49.21 | 46.91 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:39:09 | 49.54 | 47.24 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:39:09 | 49.87 | 47.57 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:39:10 | 50.20 | 47.90 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:39:10 | 50.53 | 48.23 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 9:39:10 | 50.85 | 48.55 | 1,080 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:39:11 | 51.18 | 48.88 | 1,080 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:39:11 | 51.51 | 49.21 | 957 | 0.43 | 0.46 | 52.3 |
| 4/20/2015 9:39:23 | 51.84 | 49.54 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 9:39:24 | 52.17 | 49.87 | 155 | 0.43 | 0.46 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:39:26 | 52.49 | 50.19 | 308 | 0.43 | 0.46 | 16.9 |
| 4/20/2015 | 9:39:26 | 52.82 | 50.52 | 371 | 0.43 | 0.46 | 20.3 |
| 4/20/2015 | 9:39:27 | 53.15 | 50.85 | 417 | 0.43 | 0.46 | 22.8 |
| 4/20/2015 | 9:39:27 | 53.48 | 51.18 | 514 | 0.43 | 0.46 | 28.1 |
| 4/20/2015 | 9:39:28 | 53.81 | 51.51 | 636 | 0.43 | 0.46 | 34.8 |
| 4/20/2015 | 9:39:28 | 54.13 | 51.83 | 636 | 0.43 | 0.46 | 34.8 |
| 4/20/2015 | 9:39:28 | 54.46 | 52.16 | 706 | 0.43 | 0.46 | 38.6 |
| 4/20/2015 | 9:39:32 | 54.79 | 52.49 | 66 | 0.43 | 0.46 | 3.6 |
| 4/20/2015 | 9:39:33 | 55.12 | 52.82 | 151 | 0.43 | 0.46 | 8.3 |
| 4/20/2015 | 9:39:34 | 55.45 | 53.15 | 269 | 0.43 | 0.46 | 14.7 |
| 4/20/2015 | 9:39:36 | 55.77 | 53.47 | 254 | 0.43 | 0.46 | 13.9 |
| 4/20/2015 | 9:39:37 | 56.10 | 53.80 | 239 | 0.43 | 0.46 | 13.1 |
| 4/20/2015 | 9:39:39 | 56.43 | 54.13 | 244 | 0.43 | 0.46 | 13.4 |
| 4/20/2015 | 9:39:40 | 56.76 | 54.46 | 241 | 0.43 | 0.46 | 13.2 |
| 4/20/2015 | 9:39:50 | 57.06 | 54.76 | 24 | 0.43 | 0.46 | 1.3 |

## E155 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:37:07

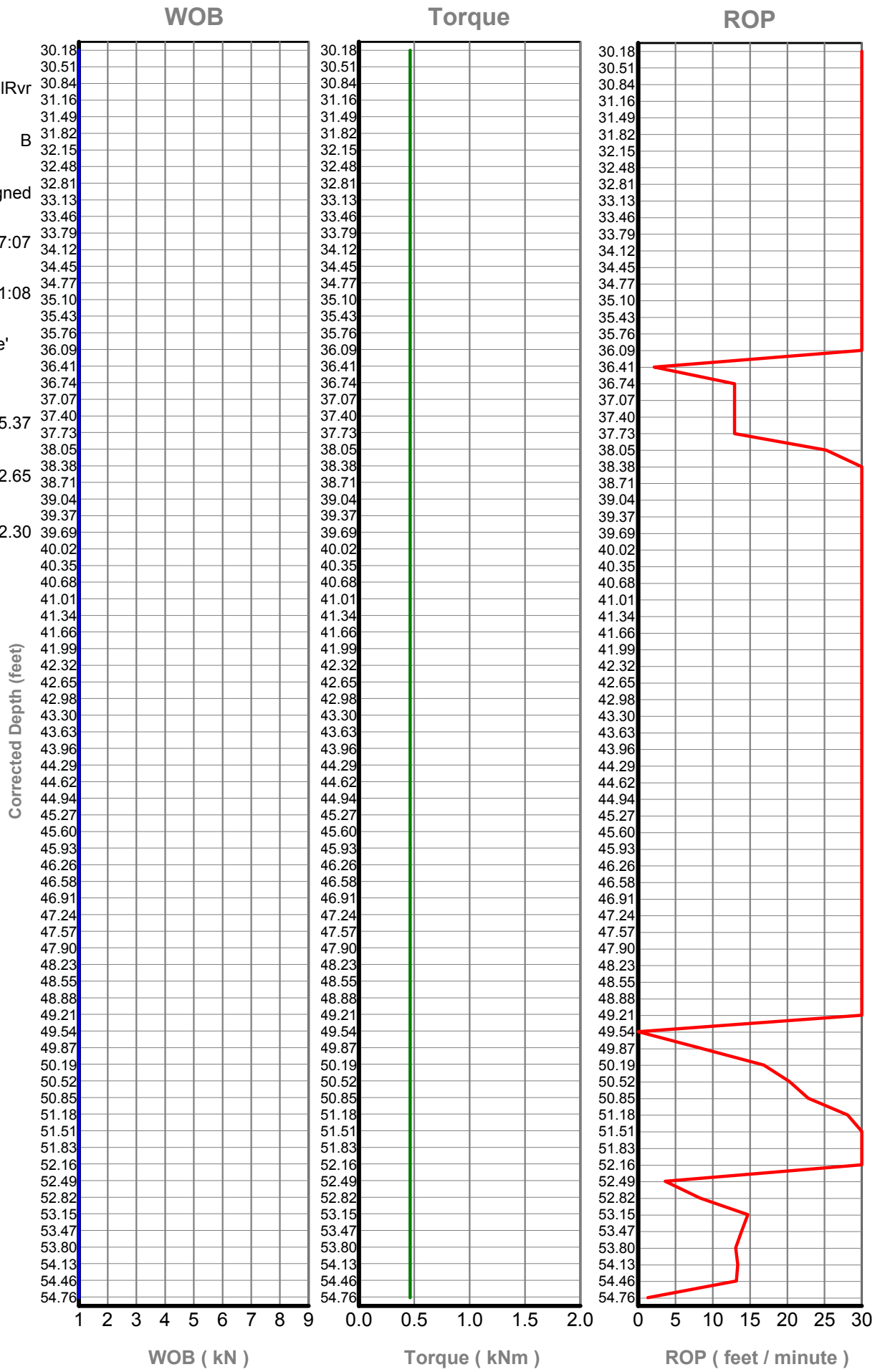
**End Date:**
4/20/2015 9:41:08

**Operator Note:**
'2.3 2.1 b Auto Complete'

**Northing:**
368,675.37

**Easting:**
253,622.65

**Tide (feet):**
2.30



## Hole: E156 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:32:40 | 32.48 | 30.28 | 1,095 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 9:32:40 | 32.81 | 30.61 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:32:40 | 33.14 | 30.94 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:32:41 | 33.46 | 31.26 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:32:41 | 33.79 | 31.59 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:32:41 | 34.12 | 31.92 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 9:32:42 | 34.45 | 32.25 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 9:32:42 | 34.78 | 32.58 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:32:43 | 35.11 | 32.91 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:32:42 | 35.43 | 33.23 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:32:43 | 35.76 | 33.56 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:32:44 | 36.09 | 33.89 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 9:32:43 | 36.42 | 34.22 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:32:44 | 36.75 | 34.55 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:32:45 | 37.07 | 34.87 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:32:45 | 37.40 | 35.20 | 1,069 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:32:45 | 37.73 | 35.53 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:32:46 | 38.06 | 35.86 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:32:46 | 38.39 | 36.19 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:32:46 | 38.71 | 36.51 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:32:46 | 39.04 | 36.84 | 1,084 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:32:47 | 39.37 | 37.17 | 1,084 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:32:47 | 39.70 | 37.50 | 1,084 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:32:47 | 40.03 | 37.83 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:32:48 | 40.35 | 38.15 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:32:48 | 40.68 | 38.48 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:32:48 | 41.01 | 38.81 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:32:49 | 41.34 | 39.14 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:32:49 | 41.67 | 39.47 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 9:32:49 | 41.99 | 39.79 | 1,101 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 9:32:50 | 42.32 | 40.12 | 1,101 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 9:32:50 | 42.65 | 40.45 | 1,098 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 9:32:50 | 42.98 | 40.78 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 9:32:51 | 43.31 | 41.11 | 1,111 | 0.43 | 0.46 | 60.7 |
| 4/20/2015 9:32:51 | 43.64 | 41.44 | 1,097 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 9:32:51 | 43.96 | 41.76 | 1,097 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 9:32:51 | 44.29 | 42.09 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 9:32:52 | 44.62 | 42.42 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:32:52 | 44.95 | 42.75 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:32:52 | 45.28 | 43.08 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 9:32:53 | 45.60 | 43.40 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:32:53 | 45.93 | 43.73 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:32:53 | 46.26 | 44.06 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:32:54 | 46.59 | 44.39 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:32:55 | 46.92 | 44.72 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:32:54 | 47.24 | 45.04 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:32:55 | 47.57 | 45.37 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:32:55 | 47.90 | 45.70 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:32:56 | 48.23 | 46.03 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:33:09 | 48.56 | 46.36 | 45 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 9:33:10 | 48.88 | 46.68 | 163 | 0.43 | 0.46 | 8.9 |
| 4/20/2015 9:33:11 | 49.21 | 47.01 | 245 | 0.43 | 0.46 | 13.4 |
| 4/20/2015 9:33:20 | 49.54 | 47.34 | 44 | 0.43 | 0.46 | 2.4 |
| 4/20/2015 9:33:21 | 49.87 | 47.67 | 132 | 0.43 | 0.46 | 7.2 |
| 4/20/2015 9:33:22 | 50.20 | 48.00 | 309 | 0.43 | 0.46 | 16.9 |
| 4/20/2015 9:33:22 | 50.53 | 48.33 | 385 | 0.43 | 0.46 | 21.0 |
| 4/20/2015 9:33:23 | 50.85 | 48.65 | 482 | 0.43 | 0.46 | 26.4 |
| 4/20/2015 9:33:23 | 51.18 | 48.98 | 529 | 0.43 | 0.46 | 28.9 |
| 4/20/2015 9:33:24 | 51.51 | 49.31 | 567 | 0.43 | 0.46 | 31.0 |
| 4/20/2015 9:33:24 | 51.84 | 49.64 | 590 | 0.43 | 0.46 | 32.3 |
| 4/20/2015 9:33:25 | 52.17 | 49.97 | 598 | 0.43 | 0.46 | 32.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:33:26 | 52.49 | 50.29 | 608 | 0.43 | 0.46 | 33.2 |
| 4/20/2015 | 9:33:26 | 52.82 | 50.62 | 608 | 0.43 | 0.46 | 33.2 |
| 4/20/2015 | 9:33:27 | 53.15 | 50.95 | 610 | 0.43 | 0.46 | 33.4 |
| 4/20/2015 | 9:33:27 | 53.48 | 51.28 | 616 | 0.43 | 0.46 | 33.7 |
| 4/20/2015 | 9:33:28 | 53.81 | 51.61 | 566 | 0.43 | 0.46 | 31.0 |
| 4/20/2015 | 9:33:30 | 54.13 | 51.93 | 302 | 0.43 | 0.46 | 16.5 |
| 4/20/2015 | 9:33:31 | 54.46 | 52.26 | 268 | 0.43 | 0.46 | 14.6 |
| 4/20/2015 | 9:33:32 | 54.79 | 52.59 | 362 | 0.43 | 0.46 | 19.8 |
| 4/20/2015 | 9:33:34 | 55.12 | 52.92 | 310 | 0.43 | 0.46 | 17.0 |
| 4/20/2015 | 9:33:35 | 55.45 | 53.25 | 185 | 0.43 | 0.46 | 10.1 |
| 4/20/2015 | 9:33:37 | 55.77 | 53.57 | 201 | 0.43 | 0.46 | 11.0 |
| 4/20/2015 | 9:33:38 | 56.10 | 53.90 | 273 | 0.43 | 0.46 | 14.9 |
| 4/20/2015 | 9:33:39 | 56.43 | 54.23 | 319 | 0.43 | 0.46 | 17.4 |
| 4/20/2015 | 9:33:40 | 56.76 | 54.56 | 358 | 0.43 | 0.46 | 19.6 |
| 4/20/2015 | 9:33:41 | 57.09 | 54.89 | 381 | 0.43 | 0.46 | 20.8 |
| 4/20/2015 | 9:33:41 | 57.22 | 55.02 | 407 | 0.43 | 0.46 | 22.3 |

## E156 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:31:24

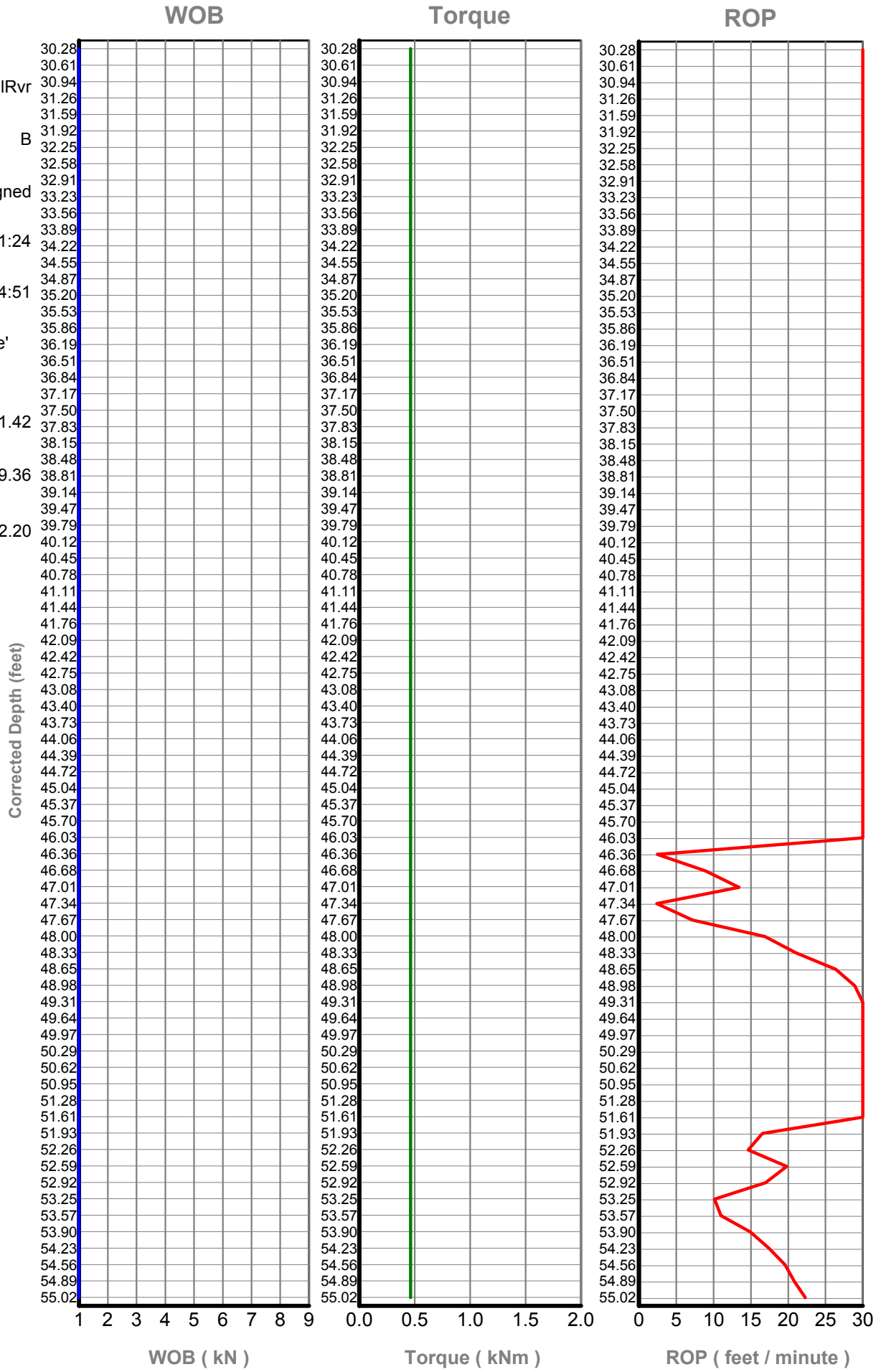
**End Date:**
4/20/2015 9:34:51

**Operator Note:**
'2.2 2.0 b Auto Complete'

**Northing:**
368,711.42

**Easting:**
253,669.36

**Tide (feet):**
2.20



## Hole: e157 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:17:54 | 32.81 | 30.01 | 818 | 0.41 | 0.34 | 44.7 |
| 4/20/2015 8:17:54 | 33.14 | 30.34 | 816 | 0.41 | 0.34 | 44.6 |
| 4/20/2015 8:17:55 | 33.46 | 30.66 | 821 | 0.41 | 0.34 | 44.9 |
| 4/20/2015 8:17:56 | 33.79 | 30.99 | 806 | 0.41 | 0.34 | 44.1 |
| 4/20/2015 8:17:56 | 34.12 | 31.32 | 806 | 0.41 | 0.34 | 44.1 |
| 4/20/2015 8:17:57 | 34.45 | 31.65 | 814 | 0.43 | 0.34 | 44.5 |
| 4/20/2015 8:17:57 | 34.78 | 31.98 | 814 | 0.43 | 0.34 | 44.5 |
| 4/20/2015 8:17:57 | 35.11 | 32.31 | 811 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:17:58 | 35.43 | 32.63 | 813 | 0.42 | 0.34 | 44.5 |
| 4/20/2015 8:17:58 | 35.76 | 32.96 | 805 | 0.41 | 0.34 | 44.0 |
| 4/20/2015 8:17:59 | 36.09 | 33.29 | 821 | 0.41 | 0.35 | 44.9 |
| 4/20/2015 8:17:59 | 36.42 | 33.62 | 810 | 0.41 | 0.35 | 44.3 |
| 4/20/2015 8:18:00 | 36.75 | 33.95 | 812 | 0.41 | 0.35 | 44.4 |
| 4/20/2015 8:18:00 | 37.07 | 34.27 | 812 | 0.41 | 0.35 | 44.4 |
| 4/20/2015 8:18:00 | 37.40 | 34.60 | 812 | 0.49 | 0.35 | 44.4 |
| 4/20/2015 8:18:01 | 37.73 | 34.93 | 815 | 0.41 | 0.35 | 44.6 |
| 4/20/2015 8:18:01 | 38.06 | 35.26 | 812 | 0.41 | 0.35 | 44.4 |
| 4/20/2015 8:18:02 | 38.39 | 35.59 | 817 | 0.41 | 0.35 | 44.7 |
| 4/20/2015 8:18:02 | 38.71 | 35.91 | 815 | 0.41 | 0.35 | 44.6 |
| 4/20/2015 8:18:03 | 39.04 | 36.24 | 815 | 0.41 | 0.35 | 44.6 |
| 4/20/2015 8:18:03 | 39.37 | 36.57 | 818 | 0.41 | 0.34 | 44.7 |
| 4/20/2015 8:18:03 | 39.70 | 36.90 | 815 | 0.41 | 0.35 | 44.6 |
| 4/20/2015 8:18:04 | 40.03 | 37.23 | 818 | 0.41 | 0.34 | 44.7 |
| 4/20/2015 8:18:04 | 40.35 | 37.55 | 810 | 0.41 | 0.35 | 44.3 |
| 4/20/2015 8:18:05 | 40.68 | 37.88 | 818 | 0.41 | 0.35 | 44.7 |
| 4/20/2015 8:18:05 | 41.01 | 38.21 | 818 | 0.41 | 0.35 | 44.7 |
| 4/20/2015 8:18:05 | 41.34 | 38.54 | 815 | 0.41 | 0.34 | 44.6 |
| 4/20/2015 8:18:06 | 41.67 | 38.87 | 810 | 0.42 | 0.35 | 44.3 |
| 4/20/2015 8:18:07 | 41.99 | 39.19 | 812 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:18:07 | 42.32 | 39.52 | 815 | 0.41 | 0.35 | 44.6 |
| 4/20/2015 8:18:08 | 42.65 | 39.85 | 809 | 0.41 | 0.35 | 44.3 |
| 4/20/2015 8:18:08 | 42.98 | 40.18 | 809 | 0.41 | 0.34 | 44.3 |
| 4/20/2015 8:18:09 | 43.31 | 40.51 | 809 | 0.41 | 0.34 | 44.3 |
| 4/20/2015 8:18:09 | 43.64 | 40.84 | 809 | 0.41 | 0.34 | 44.3 |
| 4/20/2015 8:18:09 | 43.96 | 41.16 | 812 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:18:10 | 44.29 | 41.49 | 809 | 0.41 | 0.34 | 44.3 |
| 4/20/2015 8:18:10 | 44.62 | 41.82 | 812 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:18:11 | 44.95 | 42.15 | 812 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:18:11 | 45.28 | 42.48 | 812 | 0.41 | 0.34 | 44.4 |
| 4/20/2015 8:18:11 | 45.60 | 42.80 | 811 | 0.41 | 0.34 | 44.3 |
| 4/20/2015 8:18:12 | 45.93 | 43.13 | 813 | 0.46 | 0.35 | 44.4 |
| 4/20/2015 8:18:12 | 46.26 | 43.46 | 813 | 0.41 | 0.39 | 44.4 |
| 4/20/2015 8:18:13 | 46.59 | 43.79 | 808 | 0.41 | 0.34 | 44.2 |
| 4/20/2015 8:18:13 | 46.92 | 44.12 | 813 | 0.41 | 0.35 | 44.4 |
| 4/20/2015 8:18:14 | 47.24 | 44.44 | 814 | 0.41 | 0.34 | 44.5 |
| 4/20/2015 8:18:14 | 47.57 | 44.77 | 814 | 0.41 | 0.34 | 44.5 |
| 4/20/2015 8:18:14 | 47.90 | 45.10 | 809 | 0.41 | 0.35 | 44.3 |
| 4/20/2015 8:18:15 | 48.23 | 45.43 | 809 | 0.41 | 0.35 | 44.3 |
| 4/20/2015 8:18:15 | 48.56 | 45.76 | 817 | 0.41 | 0.35 | 44.7 |
| 4/20/2015 8:18:16 | 48.88 | 46.08 | 805 | 0.41 | 0.34 | 44.0 |
| 4/20/2015 8:18:17 | 49.21 | 46.41 | 810 | 0.41 | 0.36 | 44.3 |
| 4/20/2015 8:18:17 | 49.54 | 46.74 | 785 | 0.38 | 0.40 | 42.9 |
| 4/20/2015 8:18:35 | 49.87 | 47.07 | 82 | 4.15 | 0.35 | 4.5 |
| 4/20/2015 8:18:35 | 50.20 | 47.40 | 77 | 3.47 | 0.38 | 4.2 |
| 4/20/2015 8:18:36 | 50.53 | 47.73 | 180 | 3.86 | 0.37 | 9.8 |
| 4/20/2015 8:18:37 | 50.85 | 48.05 | 400 | 3.63 | 0.37 | 21.9 |
| 4/20/2015 8:18:38 | 51.18 | 48.38 | 521 | 3.42 | 0.36 | 28.5 |
| 4/20/2015 8:18:38 | 51.51 | 48.71 | 566 | 4.46 | 0.38 | 30.9 |
| 4/20/2015 8:18:39 | 51.84 | 49.04 | 496 | 6.07 | 0.42 | 27.1 |
| 4/20/2015 8:18:40 | 52.17 | 49.37 | 395 | 3.96 | 0.37 | 21.6 |
| 4/20/2015 8:18:41 | 52.49 | 49.69 | 378 | 3.62 | 0.36 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:18:42 | 52.82 | 50.02 | 390 | 3.16 | 0.36 | 21.3 |
| 4/20/2015 | 8:18:42 | 53.15 | 50.35 | 457 | 3.33 | 0.37 | 25.0 |
| 4/20/2015 | 8:18:43 | 53.48 | 50.68 | 528 | 3.29 | 0.37 | 28.9 |
| 4/20/2015 | 8:18:43 | 53.81 | 51.01 | 570 | 3.63 | 0.38 | 31.2 |
| 4/20/2015 | 8:18:44 | 54.13 | 51.33 | 579 | 3.31 | 0.37 | 31.7 |
| 4/20/2015 | 8:18:45 | 54.46 | 51.66 | 549 | 3.61 | 0.38 | 30.0 |
| 4/20/2015 | 8:18:45 | 54.79 | 51.99 | 520 | 3.52 | 0.37 | 28.4 |
| 4/20/2015 | 8:18:46 | 55.12 | 52.32 | 491 | 3.59 | 0.38 | 26.9 |
| 4/20/2015 | 8:18:47 | 55.45 | 52.65 | 477 | 3.48 | 0.37 | 26.1 |
| 4/20/2015 | 8:18:48 | 55.77 | 52.97 | 468 | 3.15 | 0.37 | 25.6 |
| 4/20/2015 | 8:18:49 | 56.10 | 53.30 | 463 | 3.54 | 0.37 | 25.3 |
| 4/20/2015 | 8:18:49 | 56.43 | 53.63 | 464 | 3.12 | 0.37 | 25.4 |
| 4/20/2015 | 8:18:50 | 56.76 | 53.96 | 482 | 3.11 | 0.37 | 26.3 |
| 4/20/2015 | 8:18:51 | 57.09 | 54.29 | 490 | 3.19 | 0.37 | 26.8 |
| 4/20/2015 | 8:18:51 | 57.41 | 54.61 | 496 | 3.13 | 0.37 | 27.1 |
| 4/20/2015 | 8:18:52 | 57.74 | 54.94 | 509 | 3.03 | 0.36 | 27.8 |
| 4/20/2015 | 8:18:53 | 58.07 | 55.27 | 523 | 3.28 | 0.37 | 28.6 |
| 4/20/2015 | 8:18:53 | 58.22 | 55.42 | 523 | 3.28 | 0.37 | 28.6 |

## e157 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 8:14:19

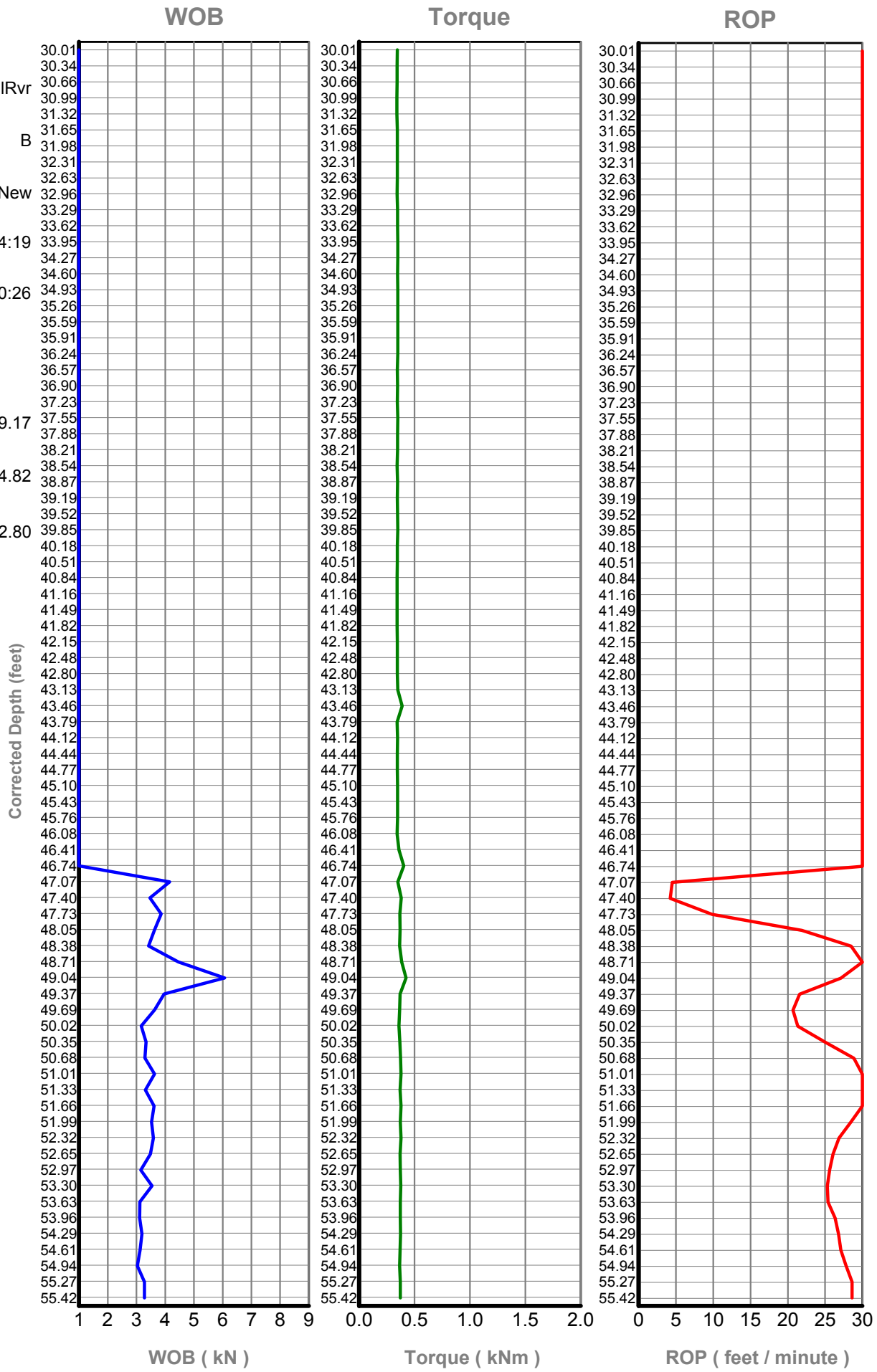
**End Date:**
4/20/2015 8:20:26

**Operator Note:**
'2.8 2.9 b No rock

**Northing:**
369,399.17

**Easting:**
253,804.82

**Tide (feet):**
2.80



## Hole: E158 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:22:42 | 32.81 | 30.11 | 877 | 0.37 | 0.34 | 47.9 |
| 4/20/2015 8:22:43 | 33.14 | 30.44 | 902 | 0.42 | 0.34 | 49.3 |
| 4/20/2015 8:22:43 | 33.46 | 30.76 | 891 | 0.44 | 0.34 | 48.7 |
| 4/20/2015 8:22:44 | 33.79 | 31.09 | 891 | 0.44 | 0.34 | 48.7 |
| 4/20/2015 8:22:44 | 34.12 | 31.42 | 899 | 0.37 | 0.34 | 49.2 |
| 4/20/2015 8:22:44 | 34.45 | 31.75 | 891 | 0.37 | 0.33 | 48.7 |
| 4/20/2015 8:22:45 | 34.78 | 32.08 | 896 | 0.37 | 0.34 | 49.0 |
| 4/20/2015 8:22:45 | 35.11 | 32.41 | 896 | 0.37 | 0.34 | 49.0 |
| 4/20/2015 8:22:45 | 35.43 | 32.73 | 891 | 0.37 | 0.33 | 48.7 |
| 4/20/2015 8:22:46 | 35.76 | 33.06 | 905 | 0.37 | 0.33 | 49.5 |
| 4/20/2015 8:22:47 | 36.09 | 33.39 | 900 | 0.37 | 0.33 | 49.2 |
| 4/20/2015 8:22:47 | 36.42 | 33.72 | 900 | 0.37 | 0.33 | 49.2 |
| 4/20/2015 8:22:47 | 36.75 | 34.05 | 895 | 0.37 | 0.34 | 48.9 |
| 4/20/2015 8:22:48 | 37.07 | 34.37 | 887 | 0.37 | 0.34 | 48.5 |
| 4/20/2015 8:22:48 | 37.40 | 34.70 | 906 | 0.37 | 0.34 | 49.5 |
| 4/20/2015 8:22:49 | 37.73 | 35.03 | 906 | 0.37 | 0.34 | 49.5 |
| 4/20/2015 8:22:49 | 38.06 | 35.36 | 900 | 0.41 | 0.34 | 49.2 |
| 4/20/2015 8:22:49 | 38.39 | 35.69 | 897 | 0.41 | 0.34 | 49.1 |
| 4/20/2015 8:22:50 | 38.71 | 36.01 | 899 | 0.40 | 0.33 | 49.2 |
| 4/20/2015 8:22:50 | 39.04 | 36.34 | 900 | 0.41 | 0.34 | 49.2 |
| 4/20/2015 8:22:51 | 39.37 | 36.67 | 900 | 0.41 | 0.34 | 49.2 |
| 4/20/2015 8:22:51 | 39.70 | 37.00 | 897 | 0.42 | 0.34 | 49.0 |
| 4/20/2015 8:22:51 | 40.03 | 37.33 | 894 | 0.42 | 0.34 | 48.9 |
| 4/20/2015 8:22:52 | 40.35 | 37.65 | 894 | 0.13 | 0.34 | 48.9 |
| 4/20/2015 8:22:52 | 40.68 | 37.98 | 894 | 0.13 | 0.34 | 48.9 |
| 4/20/2015 8:22:52 | 41.01 | 38.31 | 897 | 0.41 | 0.34 | 49.0 |
| 4/20/2015 8:22:53 | 41.34 | 38.64 | 901 | 0.42 | 0.34 | 49.3 |
| 4/20/2015 8:22:53 | 41.67 | 38.97 | 885 | 0.42 | 0.34 | 48.4 |
| 4/20/2015 8:22:54 | 41.99 | 39.29 | 885 | 0.42 | 0.34 | 48.4 |
| 4/20/2015 8:22:54 | 42.32 | 39.62 | 885 | 0.42 | 0.34 | 48.4 |
| 4/20/2015 8:22:54 | 42.65 | 39.95 | 879 | 0.41 | 0.34 | 48.1 |
| 4/20/2015 8:22:55 | 42.98 | 40.28 | 881 | 0.41 | 0.34 | 48.2 |
| 4/20/2015 8:22:55 | 43.31 | 40.61 | 878 | 0.41 | 0.34 | 48.0 |
| 4/20/2015 8:22:56 | 43.64 | 40.94 | 878 | 0.41 | 0.34 | 48.0 |
| 4/20/2015 8:22:56 | 43.96 | 41.26 | 876 | 0.41 | 0.34 | 47.9 |
| 4/20/2015 8:22:56 | 44.29 | 41.59 | 882 | 0.38 | 0.33 | 48.2 |
| 4/20/2015 8:22:57 | 44.62 | 41.92 | 884 | 0.37 | 0.34 | 48.4 |
| 4/20/2015 8:22:58 | 44.95 | 42.25 | 884 | 0.37 | 0.34 | 48.4 |
| 4/20/2015 8:22:58 | 45.28 | 42.58 | 885 | 0.37 | 0.34 | 48.4 |
| 4/20/2015 8:22:58 | 45.60 | 42.90 | 888 | 0.37 | 0.34 | 48.6 |
| 4/20/2015 8:22:59 | 45.93 | 43.23 | 896 | 0.37 | 0.34 | 49.0 |
| 4/20/2015 8:22:59 | 46.26 | 43.56 | 893 | 0.37 | 0.34 | 48.8 |
| 4/20/2015 8:23:00 | 46.59 | 43.89 | 893 | 0.37 | 0.34 | 48.8 |
| 4/20/2015 8:23:00 | 46.92 | 44.22 | 896 | 0.37 | 0.33 | 49.0 |
| 4/20/2015 8:23:00 | 47.24 | 44.54 | 893 | 0.37 | 0.33 | 48.9 |
| 4/20/2015 8:23:01 | 47.57 | 44.87 | 901 | 0.37 | 0.33 | 49.3 |
| 4/20/2015 8:23:01 | 47.90 | 45.20 | 901 | 0.37 | 0.33 | 49.3 |
| 4/20/2015 8:23:01 | 48.23 | 45.53 | 893 | 0.38 | 0.33 | 48.9 |
| 4/20/2015 8:23:02 | 48.56 | 45.86 | 893 | 0.38 | 0.34 | 48.9 |
| 4/20/2015 8:23:02 | 48.88 | 46.18 | 893 | 0.37 | 0.34 | 48.9 |
| 4/20/2015 8:23:03 | 49.21 | 46.51 | 893 | 0.37 | 0.34 | 48.9 |
| 4/20/2015 8:23:03 | 49.54 | 46.84 | 899 | 0.37 | 0.34 | 49.2 |
| 4/20/2015 8:23:03 | 49.87 | 47.17 | 891 | 0.37 | 0.34 | 48.7 |
| 4/20/2015 8:23:04 | 50.20 | 47.50 | 886 | 0.37 | 0.34 | 48.4 |
| 4/20/2015 8:23:04 | 50.53 | 47.83 | 886 | 0.37 | 0.34 | 48.4 |
| 4/20/2015 8:23:04 | 50.85 | 48.15 | 900 | 0.37 | 0.34 | 49.2 |
| 4/20/2015 8:23:05 | 51.18 | 48.48 | 900 | 0.37 | 0.34 | 49.2 |
| 4/20/2015 8:23:05 | 51.51 | 48.81 | 897 | 0.37 | 0.33 | 49.0 |
| 4/20/2015 8:23:06 | 51.84 | 49.14 | 899 | 0.38 | 0.34 | 49.2 |
| 4/20/2015 8:23:06 | 52.17 | 49.47 | 899 | 0.38 | 0.34 | 49.2 |
| 4/20/2015 8:23:06 | 52.49 | 49.79 | 896 | 0.35 | 0.36 | 49.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:23:42 | 52.82 | 50.12 | 57 | 5.75 | 0.39 | 3.1 |
| 4/20/2015 | 8:23:43 | 53.15 | 50.45 | 170 | 3.98 | 0.37 | 9.3 |
| 4/20/2015 | 8:23:44 | 53.48 | 50.78 | 297 | 4.57 | 0.38 | 16.2 |
| 4/20/2015 | 8:23:47 | 53.81 | 51.11 | 101 | 4.02 | 0.37 | 5.5 |
| 4/20/2015 | 8:23:48 | 54.13 | 51.43 | 166 | 3.81 | 0.37 | 9.1 |
| 4/20/2015 | 8:23:49 | 54.46 | 51.76 | 274 | 3.82 | 0.38 | 15.0 |
| 4/20/2015 | 8:23:50 | 54.79 | 52.09 | 396 | 3.77 | 0.39 | 21.7 |
| 4/20/2015 | 8:23:51 | 55.12 | 52.42 | 323 | 4.21 | 0.40 | 17.7 |
| 4/20/2015 | 8:23:53 | 55.45 | 52.75 | 325 | 3.00 | 0.37 | 17.8 |
| 4/20/2015 | 8:23:53 | 55.77 | 53.07 | 342 | 2.76 | 0.36 | 18.7 |
| 4/20/2015 | 8:23:54 | 56.10 | 53.40 | 394 | 2.67 | 0.37 | 21.5 |
| 4/20/2015 | 8:23:54 | 56.43 | 53.73 | 444 | 2.76 | 0.36 | 24.3 |
| 4/20/2015 | 8:23:55 | 56.76 | 54.06 | 444 | 2.55 | 0.36 | 24.3 |
| 4/20/2015 | 8:23:56 | 57.09 | 54.39 | 540 | 2.80 | 0.36 | 29.5 |
| 4/20/2015 | 8:23:56 | 57.41 | 54.71 | 543 | 2.65 | 0.36 | 29.7 |
| 4/20/2015 | 8:23:57 | 57.74 | 55.04 | 546 | 2.78 | 0.37 | 29.9 |
| 4/20/2015 | 8:23:57 | 58.00 | 55.30 | 546 | 2.87 | 0.37 | 29.9 |

## E158 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 8:21:10

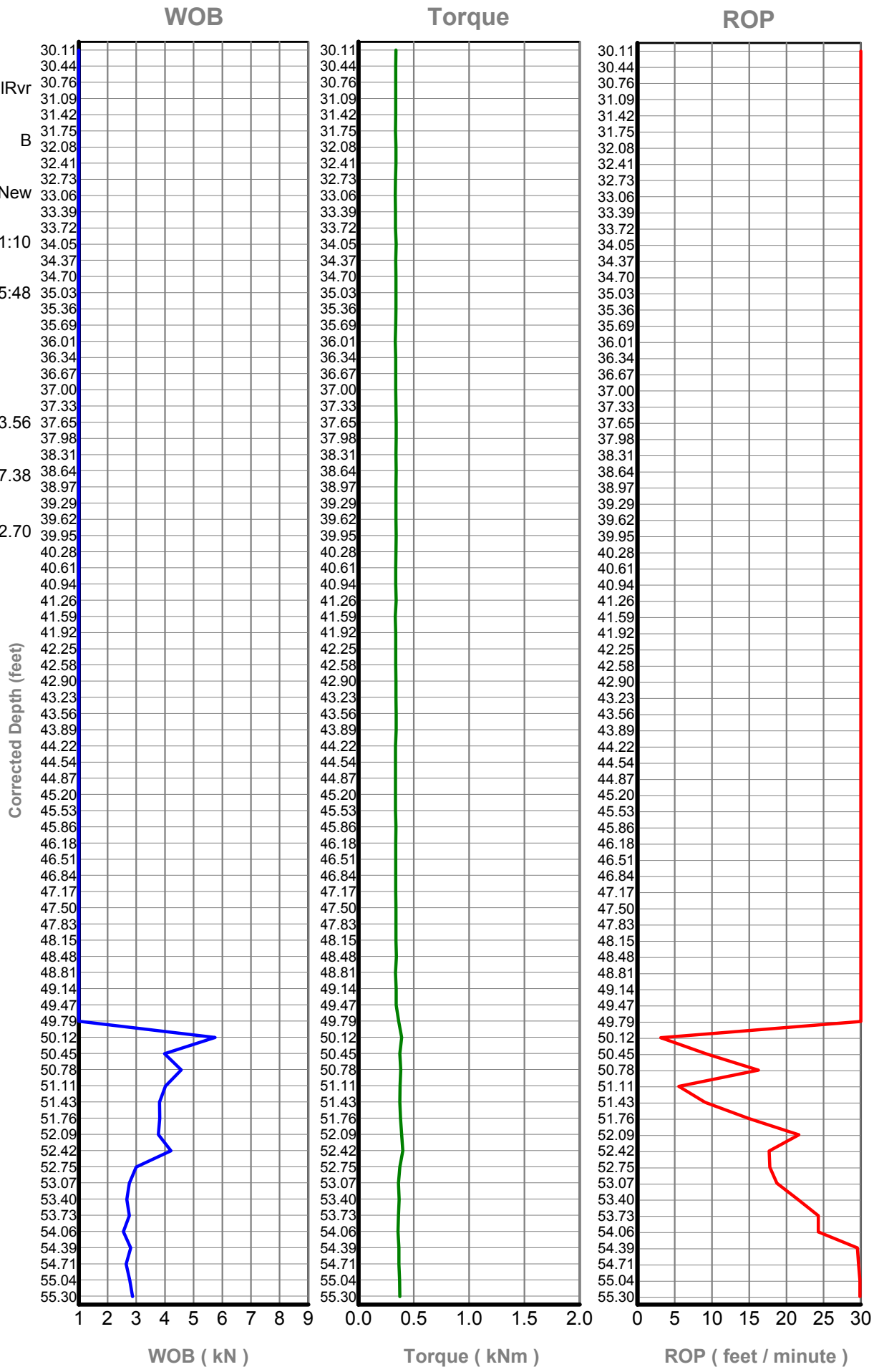
**End Date:**
4/20/2015 8:25:48

**Operator Note:**
'2.7 '3 2.9 b Auto Complete'

**Northing:**
368,853.56

**Easting:**
253,847.38

**Tide (feet):**
2.70



## Hole: E159 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:28:20 | 32.81 | 30.11 | 938 | 0.36 | 0.33 | 51.3 |
| 4/20/2015 8:28:20 | 33.14 | 30.44 | 934 | 0.37 | 0.33 | 51.0 |
| 4/20/2015 8:28:20 | 33.46 | 30.76 | 925 | 0.36 | 0.34 | 50.6 |
| 4/20/2015 8:28:21 | 33.79 | 31.09 | 925 | 0.36 | 0.33 | 50.6 |
| 4/20/2015 8:28:21 | 34.12 | 31.42 | 925 | 0.36 | 0.33 | 50.6 |
| 4/20/2015 8:28:21 | 34.45 | 31.75 | 932 | 0.37 | 0.33 | 51.0 |
| 4/20/2015 8:28:22 | 34.78 | 32.08 | 935 | 0.36 | 0.34 | 51.1 |
| 4/20/2015 8:28:22 | 35.11 | 32.41 | 923 | 0.36 | 0.34 | 50.5 |
| 4/20/2015 8:28:23 | 35.43 | 32.73 | 923 | 0.36 | 0.34 | 50.5 |
| 4/20/2015 8:28:23 | 35.76 | 33.06 | 923 | 0.36 | 0.33 | 50.5 |
| 4/20/2015 8:28:23 | 36.09 | 33.39 | 925 | 0.38 | 0.33 | 50.6 |
| 4/20/2015 8:28:24 | 36.42 | 33.72 | 925 | 0.38 | 0.33 | 50.6 |
| 4/20/2015 8:28:24 | 36.75 | 34.05 | 936 | 0.36 | 0.33 | 51.2 |
| 4/20/2015 8:28:24 | 37.07 | 34.37 | 936 | 0.36 | 0.33 | 51.2 |
| 4/20/2015 8:28:25 | 37.40 | 34.70 | 922 | 0.36 | 0.33 | 50.4 |
| 4/20/2015 8:28:25 | 37.73 | 35.03 | 922 | 0.36 | 0.33 | 50.4 |
| 4/20/2015 8:28:25 | 38.06 | 35.36 | 930 | 0.36 | 0.33 | 50.8 |
| 4/20/2015 8:28:26 | 38.39 | 35.69 | 930 | 0.36 | 0.33 | 50.8 |
| 4/20/2015 8:28:26 | 38.71 | 36.01 | 937 | 0.36 | 0.33 | 51.2 |
| 4/20/2015 8:28:27 | 39.04 | 36.34 | 937 | 0.36 | 0.33 | 51.2 |
| 4/20/2015 8:28:27 | 39.37 | 36.67 | 937 | 0.36 | 0.33 | 51.2 |
| 4/20/2015 8:28:27 | 39.70 | 37.00 | 945 | 0.36 | 0.33 | 51.7 |
| 4/20/2015 8:28:28 | 40.03 | 37.33 | 921 | 0.37 | 0.33 | 50.3 |
| 4/20/2015 8:28:28 | 40.35 | 37.65 | 921 | 0.37 | 0.33 | 50.3 |
| 4/20/2015 8:28:28 | 40.68 | 37.98 | 921 | 0.36 | 0.33 | 50.3 |
| 4/20/2015 8:28:29 | 41.01 | 38.31 | 936 | 0.37 | 0.33 | 51.2 |
| 4/20/2015 8:28:30 | 41.34 | 38.64 | 936 | 0.37 | 0.33 | 51.2 |
| 4/20/2015 8:28:29 | 41.67 | 38.97 | 931 | 0.36 | 0.33 | 50.9 |
| 4/20/2015 8:28:30 | 41.99 | 39.29 | 932 | 0.36 | 0.33 | 51.0 |
| 4/20/2015 8:28:31 | 42.32 | 39.62 | 918 | 0.36 | 0.34 | 50.2 |
| 4/20/2015 8:28:31 | 42.65 | 39.95 | 918 | 0.36 | 0.34 | 50.2 |
| 4/20/2015 8:28:31 | 42.98 | 40.28 | 943 | 0.36 | 0.33 | 51.6 |
| 4/20/2015 8:28:32 | 43.31 | 40.61 | 929 | 0.37 | 0.33 | 50.8 |
| 4/20/2015 8:28:32 | 43.64 | 40.94 | 943 | 0.36 | 0.33 | 51.5 |
| 4/20/2015 8:28:33 | 43.96 | 41.26 | 943 | 0.36 | 0.33 | 51.5 |
| 4/20/2015 8:28:33 | 44.29 | 41.59 | 931 | 0.36 | 0.33 | 50.9 |
| 4/20/2015 8:28:33 | 44.62 | 41.92 | 934 | 0.36 | 0.33 | 51.1 |
| 4/20/2015 8:28:34 | 44.95 | 42.25 | 925 | 0.36 | 0.34 | 50.6 |
| 4/20/2015 8:28:34 | 45.28 | 42.58 | 925 | 0.36 | 0.34 | 50.6 |
| 4/20/2015 8:28:34 | 45.60 | 42.90 | 934 | 0.36 | 0.33 | 51.1 |
| 4/20/2015 8:28:35 | 45.93 | 43.23 | 928 | 0.36 | 0.33 | 50.7 |
| 4/20/2015 8:28:35 | 46.26 | 43.56 | 931 | 0.36 | 0.33 | 50.9 |
| 4/20/2015 8:28:36 | 46.59 | 43.89 | 931 | 0.36 | 0.33 | 50.9 |
| 4/20/2015 8:28:36 | 46.92 | 44.22 | 918 | 0.36 | 0.33 | 50.2 |
| 4/20/2015 8:28:36 | 47.24 | 44.54 | 918 | 0.36 | 0.33 | 50.2 |
| 4/20/2015 8:28:37 | 47.57 | 44.87 | 926 | 0.36 | 0.33 | 50.6 |
| 4/20/2015 8:28:37 | 47.90 | 45.20 | 926 | 0.36 | 0.33 | 50.6 |
| 4/20/2015 8:28:37 | 48.23 | 45.53 | 923 | 0.36 | 0.33 | 50.5 |
| 4/20/2015 8:28:38 | 48.56 | 45.86 | 920 | 0.37 | 0.32 | 50.3 |
| 4/20/2015 8:28:38 | 48.88 | 46.18 | 920 | 0.37 | 0.32 | 50.3 |
| 4/20/2015 8:28:52 | 49.21 | 46.51 | 35 | 4.04 | 0.37 | 1.9 |
| 4/20/2015 8:28:54 | 49.54 | 46.84 | 144 | 3.75 | 0.39 | 7.9 |
| 4/20/2015 8:28:56 | 49.87 | 47.17 | 159 | 3.64 | 0.36 | 8.7 |
| 4/20/2015 8:28:57 | 50.20 | 47.50 | 235 | 2.62 | 0.36 | 12.9 |
| 4/20/2015 8:28:57 | 50.53 | 47.83 | 344 | 2.68 | 0.35 | 18.8 |
| 4/20/2015 8:28:58 | 50.85 | 48.15 | 467 | 2.51 | 0.35 | 25.6 |
| 4/20/2015 8:28:58 | 51.18 | 48.48 | 587 | 2.57 | 0.35 | 32.1 |
| 4/20/2015 8:28:59 | 51.51 | 48.81 | 653 | 2.44 | 0.35 | 35.7 |
| 4/20/2015 8:28:59 | 51.84 | 49.14 | 688 | 2.56 | 0.36 | 37.6 |
| 4/20/2015 8:29:00 | 52.17 | 49.47 | 682 | 2.63 | 0.36 | 37.3 |
| 4/20/2015 8:29:01 | 52.49 | 49.79 | 664 | 3.07 | 0.37 | 36.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:29:02 | 52.82 | 50.12 | 576 | 2.93 | 0.37 | 31.5 |
| 4/20/2015 | 8:29:03 | 53.15 | 50.45 | 462 | 3.07 | 0.38 | 25.3 |
| 4/20/2015 | 8:29:04 | 53.48 | 50.78 | 390 | 3.03 | 0.38 | 21.3 |
| 4/20/2015 | 8:29:05 | 53.81 | 51.11 | 343 | 2.99 | 0.38 | 18.8 |
| 4/20/2015 | 8:29:06 | 54.13 | 51.43 | 352 | 2.79 | 0.37 | 19.3 |
| 4/20/2015 | 8:29:06 | 54.46 | 51.76 | 376 | 2.70 | 0.38 | 20.6 |
| 4/20/2015 | 8:29:09 | 54.79 | 52.09 | 92 | 4.34 | 0.40 | 5.1 |
| 4/20/2015 | 8:29:10 | 55.12 | 52.42 | 145 | 5.16 | 0.40 | 7.9 |
| 4/20/2015 | 8:29:12 | 55.45 | 52.75 | 290 | 3.21 | 0.37 | 15.9 |
| 4/20/2015 | 8:29:13 | 55.77 | 53.07 | 344 | 2.78 | 0.37 | 18.8 |
| 4/20/2015 | 8:29:13 | 56.10 | 53.40 | 406 | 2.70 | 0.35 | 22.2 |
| 4/20/2015 | 8:29:14 | 56.43 | 53.73 | 480 | 2.55 | 0.36 | 26.3 |
| 4/20/2015 | 8:29:14 | 56.76 | 54.06 | 540 | 2.82 | 0.37 | 29.5 |
| 4/20/2015 | 8:29:15 | 57.09 | 54.39 | 576 | 2.77 | 0.37 | 31.5 |
| 4/20/2015 | 8:29:16 | 57.41 | 54.71 | 555 | 2.61 | 0.36 | 30.3 |
| 4/20/2015 | 8:29:16 | 57.74 | 55.04 | 547 | 2.79 | 0.36 | 29.9 |
| 4/20/2015 | 8:29:17 | 58.07 | 55.37 | 544 | 2.93 | 0.37 | 29.8 |

## E159 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 8:26:54

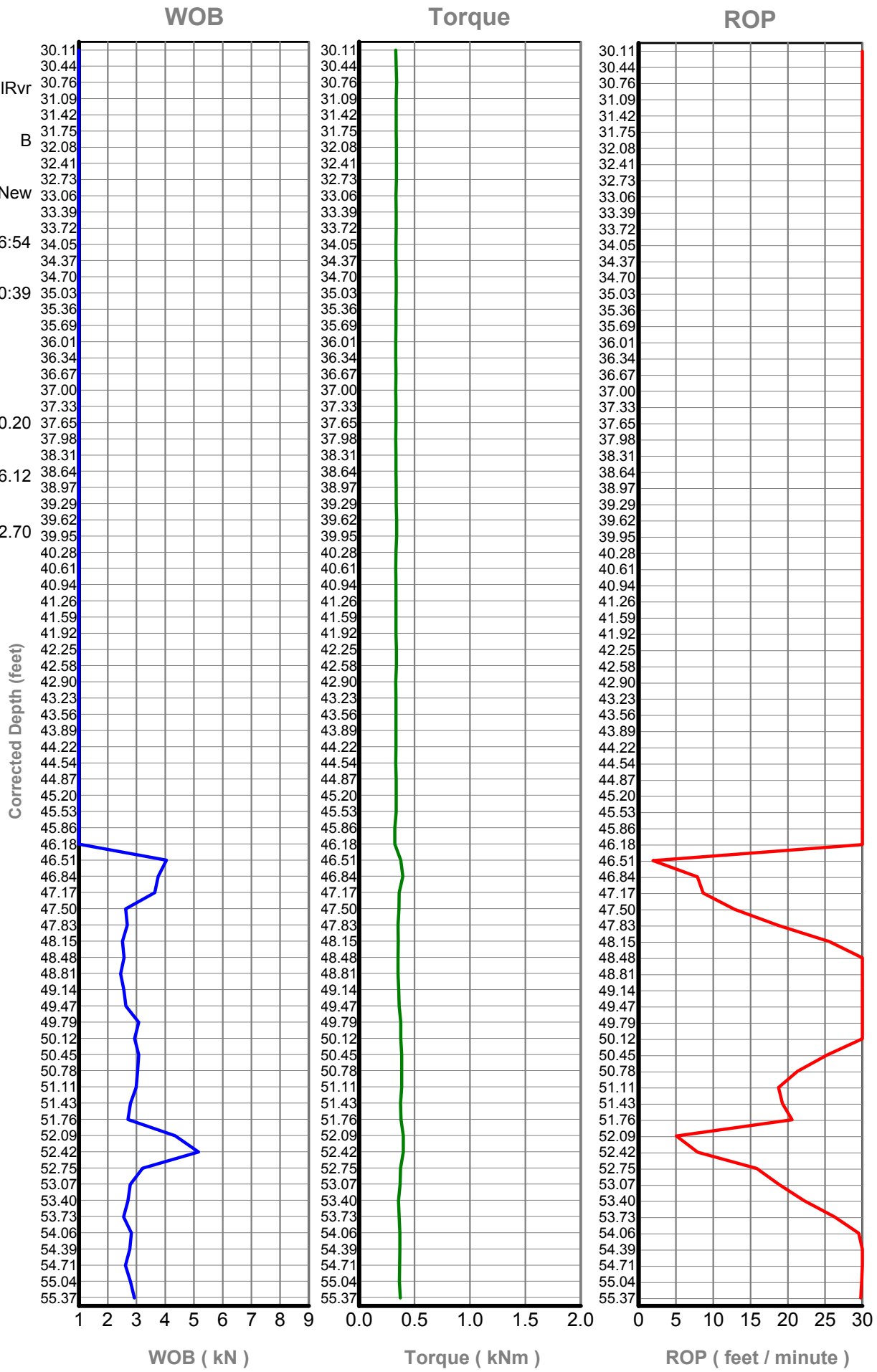
**End Date:**
4/20/2015 8:30:39

**Operator Note:**
'2.7 '2.9 2.9 b No rock'

**Northing:**
368,900.20

**Easting:**
253,906.12

**Tide (feet):**
2.70



## Hole: E16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 15:35:26 | 36.75 | 30.15 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:26 | 37.07 | 30.47 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:26 | 37.40 | 30.80 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:27 | 37.73 | 31.13 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:27 | 38.06 | 31.46 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:27 | 38.39 | 31.79 | 1,104 | 0.25 | 0.30 | 60.4 |
| 4/20/2015 15:35:28 | 38.71 | 32.11 | 1,104 | 0.25 | 0.30 | 60.4 |
| 4/20/2015 15:35:28 | 39.04 | 32.44 | 1,104 | 0.25 | 0.31 | 60.4 |
| 4/20/2015 15:35:28 | 39.37 | 32.77 | 1,104 | 0.25 | 0.31 | 60.4 |
| 4/20/2015 15:35:28 | 39.70 | 33.10 | 1,104 | 0.25 | 0.31 | 60.4 |
| 4/20/2015 15:35:29 | 40.03 | 33.43 | 1,095 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:30 | 40.35 | 33.75 | 1,095 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:30 | 40.68 | 34.08 | 1,104 | 0.25 | 0.33 | 60.4 |
| 4/20/2015 15:35:30 | 41.01 | 34.41 | 1,102 | 0.25 | 0.32 | 60.2 |
| 4/20/2015 15:35:31 | 41.34 | 34.74 | 1,102 | 0.25 | 0.32 | 60.2 |
| 4/20/2015 15:35:31 | 41.67 | 35.07 | 1,099 | 0.25 | 0.32 | 60.1 |
| 4/20/2015 15:35:31 | 41.99 | 35.39 | 1,099 | 0.25 | 0.32 | 60.1 |
| 4/20/2015 15:35:31 | 42.32 | 35.72 | 1,099 | 0.25 | 0.31 | 60.1 |
| 4/20/2015 15:35:32 | 42.65 | 36.05 | 1,104 | 0.25 | 0.31 | 60.4 |
| 4/20/2015 15:35:32 | 42.98 | 36.38 | 1,104 | 0.25 | 0.31 | 60.4 |
| 4/20/2015 15:35:32 | 43.31 | 36.71 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:33 | 43.64 | 37.04 | 1,101 | 0.26 | 0.31 | 60.2 |
| 4/20/2015 15:35:33 | 43.96 | 37.36 | 1,101 | 0.26 | 0.31 | 60.2 |
| 4/20/2015 15:35:33 | 44.29 | 37.69 | 1,095 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:34 | 44.62 | 38.02 | 1,095 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:34 | 44.95 | 38.35 | 1,101 | 0.25 | 0.31 | 60.2 |
| 4/20/2015 15:35:34 | 45.28 | 38.68 | 1,096 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:35 | 45.60 | 39.00 | 1,096 | 0.25 | 0.31 | 59.9 |
| 4/20/2015 15:35:35 | 45.93 | 39.33 | 1,088 | 0.25 | 0.31 | 59.5 |
| 4/20/2015 15:35:35 | 46.26 | 39.66 | 1,088 | 0.25 | 0.31 | 59.5 |
| 4/20/2015 15:35:36 | 46.59 | 39.99 | 1,088 | 0.25 | 0.31 | 59.5 |
| 4/20/2015 15:35:36 | 46.92 | 40.32 | 1,092 | 0.25 | 0.31 | 59.7 |
| 4/20/2015 15:35:36 | 47.24 | 40.64 | 1,092 | 0.25 | 0.31 | 59.7 |
| 4/20/2015 15:36:06 | 47.57 | 40.97 | 0 | 3.95 | 0.36 | 0.0 |
| 4/20/2015 15:36:06 | 47.90 | 41.30 | 114 | 3.45 | 0.38 | 6.3 |
| 4/20/2015 15:36:24 | 48.23 | 41.63 | 46 | 3.24 | 0.39 | 2.5 |
| 4/20/2015 15:36:26 | 48.56 | 41.96 | 202 | 4.10 | 0.39 | 11.0 |
| 4/20/2015 15:36:38 | 48.88 | 42.28 | 0 | 3.56 | 0.37 | 0.0 |
| 4/20/2015 15:36:40 | 49.21 | 42.61 | 161 | 5.00 | 0.38 | 8.8 |
| 4/20/2015 15:36:41 | 49.54 | 42.94 | 203 | 3.60 | 0.37 | 11.1 |
| 4/20/2015 15:36:42 | 49.87 | 43.27 | 264 | 3.26 | 0.39 | 14.5 |
| 4/20/2015 15:36:45 | 50.20 | 43.60 | 211 | 3.35 | 0.39 | 11.5 |
| 4/20/2015 15:36:47 | 50.53 | 43.93 | 162 | 4.10 | 0.38 | 8.9 |
| 4/20/2015 15:36:48 | 50.85 | 44.25 | 226 | 3.13 | 0.37 | 12.4 |
| 4/20/2015 15:36:48 | 51.18 | 44.58 | 283 | 2.44 | 0.35 | 15.5 |
| 4/20/2015 15:36:49 | 51.51 | 44.91 | 360 | 2.08 | 0.35 | 19.7 |
| 4/20/2015 15:37:16 | 51.84 | 45.24 | 11 | 5.17 | 0.40 | 0.6 |
| 4/20/2015 15:37:17 | 52.17 | 45.57 | 104 | 2.92 | 0.36 | 5.7 |
| 4/20/2015 15:37:18 | 52.49 | 45.89 | 221 | 3.18 | 0.38 | 12.1 |
| 4/20/2015 15:37:20 | 52.82 | 46.22 | 259 | 2.97 | 0.40 | 14.2 |
| 4/20/2015 15:37:21 | 53.15 | 46.55 | 224 | 5.07 | 0.38 | 12.2 |
| 4/20/2015 15:37:24 | 53.48 | 46.88 | 170 | 4.24 | 0.42 | 9.3 |
| 4/20/2015 15:38:28 | 53.81 | 47.21 | 50 | 3.27 | 0.37 | 2.7 |
| 4/20/2015 15:38:30 | 54.13 | 47.53 | 177 | 3.53 | 0.38 | 9.7 |
| 4/20/2015 15:38:32 | 54.46 | 47.86 | 215 | 3.72 | 0.37 | 11.8 |
| 4/20/2015 15:38:33 | 54.79 | 48.19 | 271 | 4.24 | 0.36 | 14.8 |
| 4/20/2015 15:38:34 | 55.12 | 48.52 | 323 | 3.24 | 0.38 | 17.6 |
| 4/20/2015 15:38:35 | 55.45 | 48.85 | 330 | 3.39 | 0.38 | 18.0 |
| 4/20/2015 15:38:36 | 55.77 | 49.17 | 330 | 3.13 | 0.38 | 18.0 |
| 4/20/2015 15:38:38 | 56.10 | 49.50 | 277 | 3.71 | 0.38 | 15.2 |
| 4/20/2015 15:38:40 | 56.43 | 49.83 | 209 | 3.75 | 0.39 | 11.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 15:39:19 | 56.76 | 50.16 | 0 | 3.36 | 0.39 | 0.0 |
| 4/20/2015 | 15:39:21 | 57.09 | 50.49 | 95 | 3.45 | 0.37 | 5.2 |
| 4/20/2015 | 15:39:22 | 57.41 | 50.81 | 197 | 3.59 | 0.39 | 10.8 |
| 4/20/2015 | 15:39:25 | 57.74 | 51.14 | 124 | 4.21 | 0.38 | 6.8 |
| 4/20/2015 | 15:39:29 | 58.07 | 51.47 | 94 | 4.02 | 0.40 | 5.1 |
| 4/20/2015 | 15:39:32 | 58.40 | 51.80 | 107 | 4.26 | 0.40 | 5.9 |
| 4/20/2015 | 15:39:40 | 58.73 | 52.13 | 55 | 4.02 | 0.39 | 3.0 |
| 4/20/2015 | 15:39:43 | 59.06 | 52.46 | 133 | 4.26 | 0.39 | 7.3 |
| 4/20/2015 | 15:39:45 | 59.38 | 52.78 | 150 | 4.15 | 0.38 | 8.2 |
| 4/20/2015 | 15:40:02 | 59.71 | 53.11 | 3 | 4.09 | 0.37 | 0.1 |
| 4/20/2015 | 15:40:04 | 60.04 | 53.44 | 147 | 3.62 | 0.38 | 8.0 |
| 4/20/2015 | 15:40:06 | 60.37 | 53.77 | 172 | 3.69 | 0.38 | 9.4 |
| 4/20/2015 | 15:40:17 | 60.70 | 54.10 | 18 | 3.24 | 0.38 | 1.0 |
| 4/20/2015 | 15:40:21 | 61.02 | 54.42 | 0 | 2.52 | 0.38 | 0.0 |
| 4/20/2015 | 15:40:24 | 61.35 | 54.75 | 77 | 2.96 | 0.38 | 4.2 |
| 4/20/2015 | 15:40:32 | 61.68 | 55.08 | 55 | 2.93 | 0.39 | 3.0 |
| 4/20/2015 | 15:40:37 | 62.01 | 55.41 | 103 | 2.98 | 0.39 | 5.6 |
| 4/20/2015 | 15:40:41 | 62.34 | 55.74 | 82 | 3.54 | 0.37 | 4.5 |
| 4/20/2015 | 15:40:44 | 62.66 | 56.06 | 142 | 3.85 | 0.39 | 7.8 |
| 4/20/2015 | 15:40:44 | 62.71 | 56.11 | 132 | 3.50 | 0.40 | 7.2 |

## E16 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 15:33:35

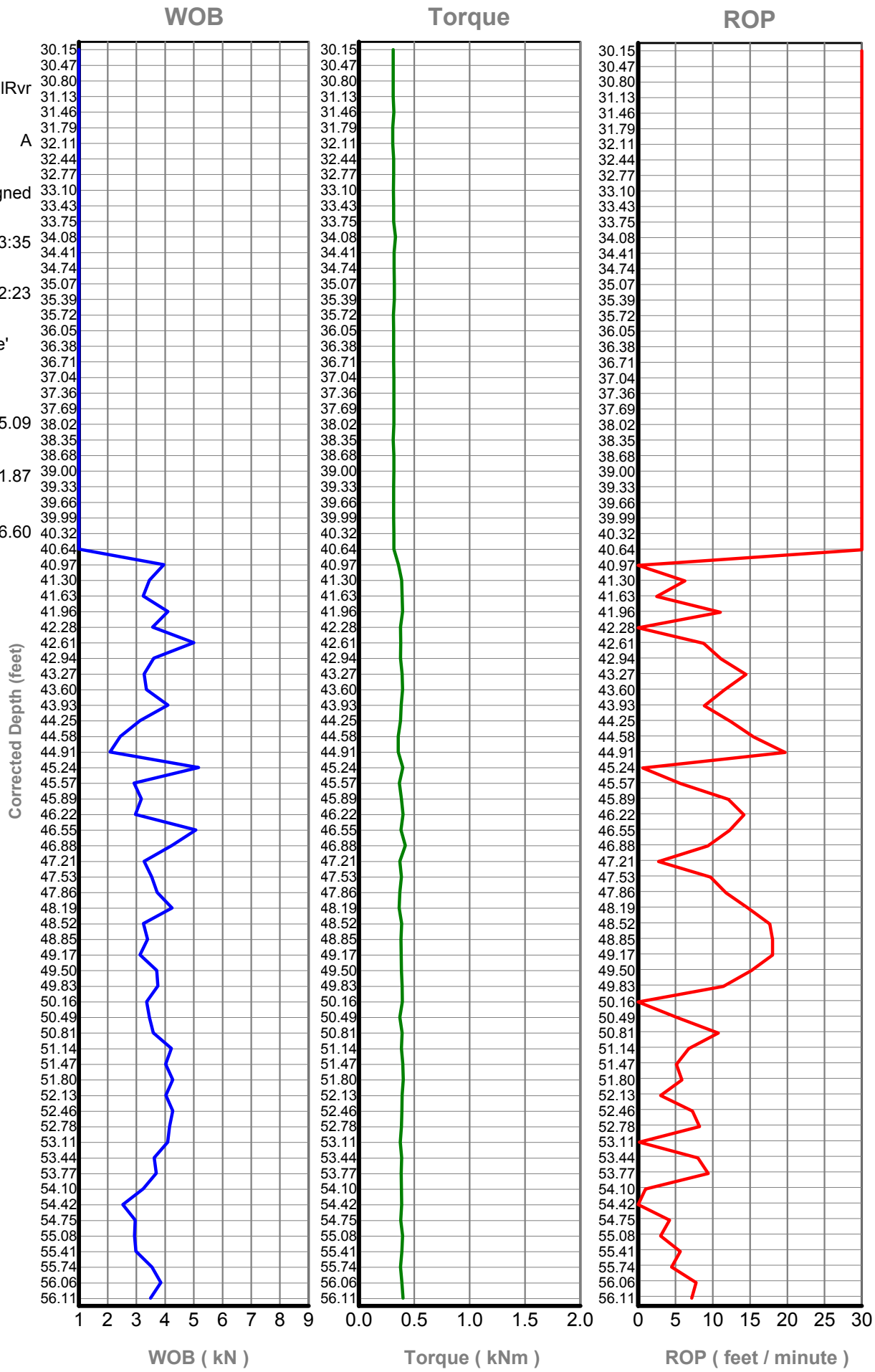
**End Date:**
4/20/2015 15:42:23

**Operator Note:**
'6.6 6.8 b Auto Complete'

**Northing:**
368,885.09

**Easting:**
253,171.87

**Tide (feet):**
6.60



## Hole: E160 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 16:26:47 | 34.78 | 30.18 | 977 | 0.33 | 0.34 | 53.4 |
| 4/19/2015 16:26:47 | 35.11 | 30.51 | 968 | 0.33 | 0.34 | 53.0 |
| 4/19/2015 16:26:48 | 35.43 | 30.83 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:26:48 | 35.76 | 31.16 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:26:48 | 36.09 | 31.49 | 960 | 0.33 | 0.34 | 52.5 |
| 4/19/2015 16:26:49 | 36.42 | 31.82 | 960 | 0.41 | 0.34 | 52.5 |
| 4/19/2015 16:26:49 | 36.75 | 32.15 | 945 | 0.41 | 0.34 | 51.7 |
| 4/19/2015 16:26:50 | 37.07 | 32.47 | 945 | 0.41 | 0.34 | 51.7 |
| 4/19/2015 16:26:50 | 37.40 | 32.80 | 942 | 0.41 | 0.34 | 51.5 |
| 4/19/2015 16:26:50 | 37.73 | 33.13 | 937 | 0.41 | 0.34 | 51.2 |
| 4/19/2015 16:26:51 | 38.06 | 33.46 | 937 | 0.43 | 0.34 | 51.2 |
| 4/19/2015 16:26:51 | 38.39 | 33.79 | 937 | 0.43 | 0.34 | 51.2 |
| 4/19/2015 16:26:51 | 38.71 | 34.11 | 931 | 0.43 | 0.34 | 50.9 |
| 4/19/2015 16:26:52 | 39.04 | 34.44 | 909 | 0.39 | 0.39 | 49.7 |
| 4/19/2015 16:27:01 | 39.37 | 34.77 | 46 | 0.31 | 0.34 | 2.5 |
| 4/19/2015 16:27:01 | 39.70 | 35.10 | 46 | 0.31 | 0.34 | 2.5 |
| 4/19/2015 16:27:01 | 40.03 | 35.43 | 224 | 0.31 | 0.34 | 12.2 |
| 4/19/2015 16:27:02 | 40.35 | 35.75 | 224 | 0.26 | 0.36 | 12.2 |
| 4/19/2015 16:28:41 | 40.68 | 36.08 | 65 | 0.33 | 0.34 | 3.5 |
| 4/19/2015 16:28:42 | 41.01 | 36.41 | 65 | 0.33 | 0.34 | 3.5 |
| 4/19/2015 16:28:42 | 41.34 | 36.74 | 256 | 0.33 | 0.33 | 14.0 |
| 4/19/2015 16:28:42 | 41.67 | 37.07 | 459 | 0.33 | 0.33 | 25.1 |
| 4/19/2015 16:28:43 | 41.99 | 37.39 | 650 | 0.35 | 0.34 | 35.6 |
| 4/19/2015 16:28:43 | 42.32 | 37.72 | 650 | 0.35 | 0.34 | 35.6 |
| 4/19/2015 16:28:43 | 42.65 | 38.05 | 839 | 0.33 | 0.34 | 45.9 |
| 4/19/2015 16:28:44 | 42.98 | 38.38 | 968 | 0.33 | 0.33 | 53.0 |
| 4/19/2015 16:28:44 | 43.31 | 38.71 | 968 | 0.33 | 0.33 | 53.0 |
| 4/19/2015 16:28:44 | 43.64 | 39.04 | 980 | 0.33 | 0.33 | 53.6 |
| 4/19/2015 16:28:45 | 43.96 | 39.36 | 971 | 0.33 | 0.34 | 53.1 |
| 4/19/2015 16:28:45 | 44.29 | 39.69 | 971 | 0.33 | 0.34 | 53.1 |
| 4/19/2015 16:28:45 | 44.62 | 40.02 | 980 | 0.33 | 0.34 | 53.6 |
| 4/19/2015 16:28:46 | 44.95 | 40.35 | 986 | 0.33 | 0.34 | 53.9 |
| 4/19/2015 16:28:46 | 45.28 | 40.68 | 998 | 0.33 | 0.34 | 54.6 |
| 4/19/2015 16:28:47 | 45.60 | 41.00 | 998 | 0.33 | 0.34 | 54.6 |
| 4/19/2015 16:28:47 | 45.93 | 41.33 | 983 | 0.33 | 0.33 | 53.8 |
| 4/19/2015 16:28:47 | 46.26 | 41.66 | 986 | 0.33 | 0.33 | 53.9 |
| 4/19/2015 16:28:48 | 46.59 | 41.99 | 986 | 0.33 | 0.33 | 53.9 |
| 4/19/2015 16:28:48 | 46.92 | 42.32 | 977 | 0.39 | 0.33 | 53.4 |
| 4/19/2015 16:28:49 | 47.24 | 42.64 | 980 | 0.33 | 0.34 | 53.6 |
| 4/19/2015 16:28:49 | 47.57 | 42.97 | 980 | 0.33 | 0.34 | 53.6 |
| 4/19/2015 16:28:49 | 47.90 | 43.30 | 974 | 0.33 | 0.34 | 53.3 |
| 4/19/2015 16:28:50 | 48.23 | 43.63 | 977 | 0.33 | 0.34 | 53.4 |
| 4/19/2015 16:28:50 | 48.56 | 43.96 | 968 | 0.33 | 0.34 | 52.9 |
| 4/19/2015 16:28:51 | 48.88 | 44.28 | 968 | 0.33 | 0.34 | 52.9 |
| 4/19/2015 16:28:51 | 49.21 | 44.61 | 980 | 0.33 | 0.34 | 53.6 |
| 4/19/2015 16:28:51 | 49.54 | 44.94 | 957 | 0.33 | 0.34 | 52.3 |
| 4/19/2015 16:28:52 | 49.87 | 45.27 | 957 | 0.33 | 0.34 | 52.3 |
| 4/19/2015 16:28:52 | 50.20 | 45.60 | 957 | 0.31 | 0.35 | 52.3 |
| 4/19/2015 16:29:10 | 50.53 | 45.93 | 26 | 3.32 | 0.39 | 1.4 |
| 4/19/2015 16:29:10 | 50.85 | 46.25 | 101 | 3.69 | 0.38 | 5.5 |
| 4/19/2015 16:29:11 | 51.18 | 46.58 | 263 | 4.00 | 0.38 | 14.4 |
| 4/19/2015 16:29:12 | 51.51 | 46.91 | 405 | 3.37 | 0.38 | 22.2 |
| 4/19/2015 16:29:13 | 51.84 | 47.24 | 425 | 3.43 | 0.38 | 23.3 |
| 4/19/2015 16:29:14 | 52.17 | 47.57 | 437 | 3.18 | 0.38 | 23.9 |
| 4/19/2015 16:29:14 | 52.49 | 47.89 | 472 | 3.56 | 0.38 | 25.8 |
| 4/19/2015 16:29:15 | 52.82 | 48.22 | 457 | 2.84 | 0.38 | 25.0 |
| 4/19/2015 16:29:16 | 53.15 | 48.55 | 466 | 2.60 | 0.38 | 25.5 |
| 4/19/2015 16:29:17 | 53.48 | 48.88 | 419 | 2.60 | 0.38 | 22.9 |
| 4/19/2015 16:29:18 | 53.81 | 49.21 | 323 | 2.95 | 0.39 | 17.7 |
| 4/19/2015 16:29:20 | 54.13 | 49.53 | 312 | 2.57 | 0.38 | 17.1 |
| 4/19/2015 16:29:20 | 54.46 | 49.86 | 345 | 2.42 | 0.37 | 18.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 16:29:21 | 54.79 | 50.19 | 383 | 2.47 | 0.38 | 21.0 |
| 4/19/2015 | 16:29:22 | 55.12 | 50.52 | 467 | 3.05 | 0.39 | 25.5 |
| 4/19/2015 | 16:29:24 | 55.45 | 50.85 | 330 | 3.55 | 0.39 | 18.0 |
| 4/19/2015 | 16:29:25 | 55.77 | 51.17 | 165 | 4.04 | 0.40 | 9.0 |
| 4/19/2015 | 16:29:28 | 56.10 | 51.50 | 141 | 3.37 | 0.39 | 7.7 |
| 4/19/2015 | 16:29:29 | 56.43 | 51.83 | 167 | 2.38 | 0.38 | 9.1 |
| 4/19/2015 | 16:29:31 | 56.76 | 52.16 | 285 | 2.11 | 0.36 | 15.6 |
| 4/19/2015 | 16:29:31 | 57.09 | 52.49 | 361 | 2.59 | 0.37 | 19.8 |
| 4/19/2015 | 16:29:32 | 57.41 | 52.81 | 361 | 2.94 | 0.39 | 19.8 |
| 4/19/2015 | 16:29:33 | 57.74 | 53.14 | 403 | 3.20 | 0.38 | 22.0 |
| 4/19/2015 | 16:29:34 | 58.07 | 53.47 | 411 | 2.66 | 0.38 | 22.5 |
| 4/19/2015 | 16:29:35 | 58.40 | 53.80 | 329 | 3.58 | 0.38 | 18.0 |
| 4/19/2015 | 16:29:37 | 58.73 | 54.13 | 260 | 4.53 | 0.37 | 14.2 |
| 4/19/2015 | 16:29:38 | 59.06 | 54.46 | 238 | 3.30 | 0.39 | 13.0 |
| 4/19/2015 | 16:29:40 | 59.38 | 54.78 | 231 | 3.53 | 0.41 | 12.6 |
| 4/19/2015 | 16:29:42 | 59.71 | 55.11 | 200 | 3.85 | 0.40 | 10.9 |

## E160 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 16:24:37

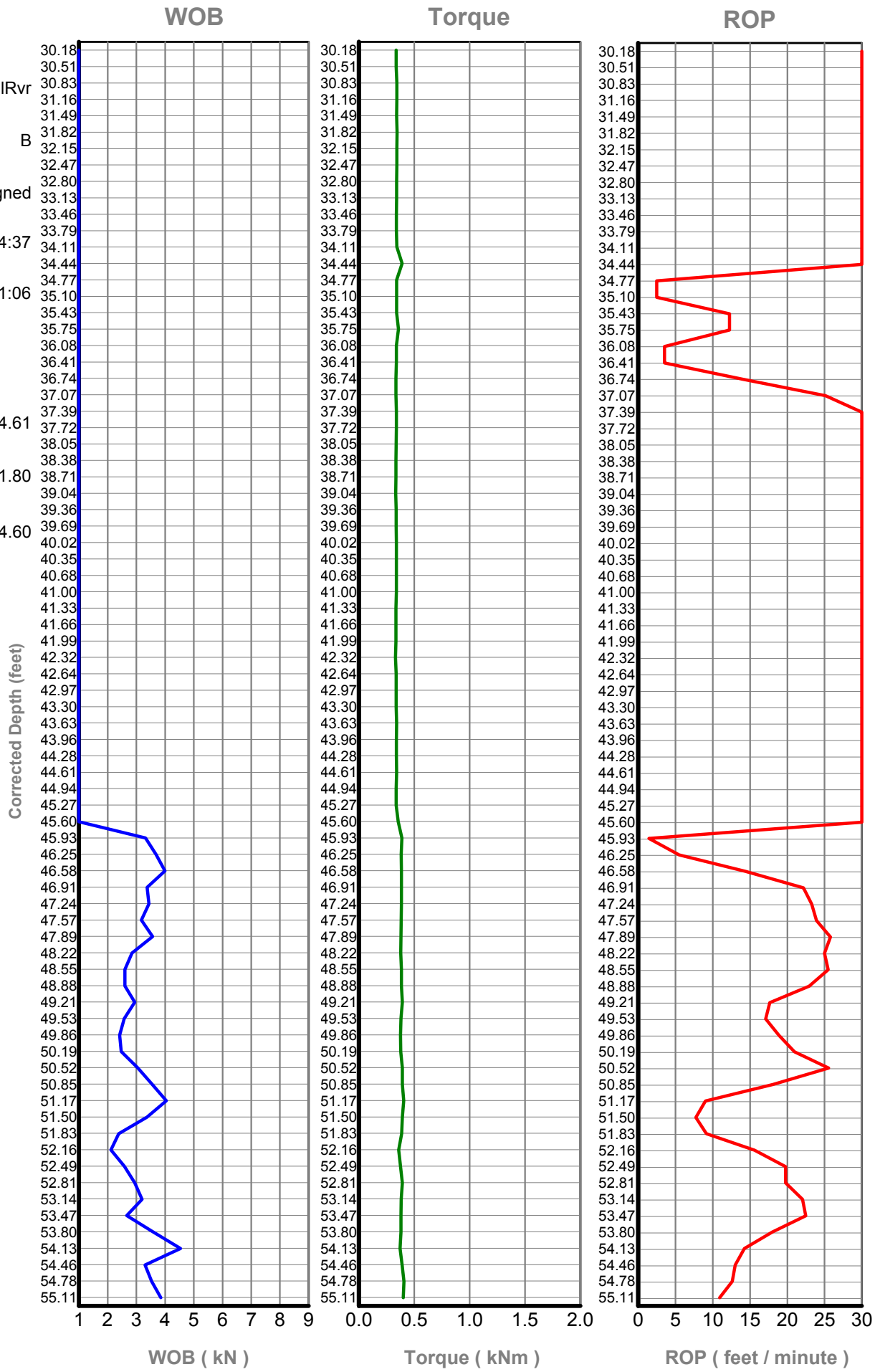
**End Date:**
4/19/2015 16:31:06

**Operator Note:**
'4.6 4.7 Auto Complete'

**Northing:**
368,954.61

**Easting:**
253,981.80

**Tide (feet):**
4.60



## Hole: E161 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 16:18:28 | 35.11 | 30.21 | 902 | 0.45 | 0.35 | 49.3 |
| 4/19/2015 16:18:28 | 35.43 | 30.53 | 891 | 0.43 | 0.34 | 48.7 |
| 4/19/2015 16:18:29 | 35.76 | 30.86 | 891 | 0.43 | 0.34 | 48.7 |
| 4/19/2015 16:18:29 | 36.09 | 31.19 | 896 | 0.43 | 0.35 | 49.0 |
| 4/19/2015 16:18:29 | 36.42 | 31.52 | 891 | 0.43 | 0.34 | 48.7 |
| 4/19/2015 16:18:30 | 36.75 | 31.85 | 888 | 0.43 | 0.34 | 48.5 |
| 4/19/2015 16:18:30 | 37.07 | 32.17 | 888 | 0.43 | 0.34 | 48.5 |
| 4/19/2015 16:18:30 | 37.40 | 32.50 | 879 | 0.43 | 0.35 | 48.1 |
| 4/19/2015 16:18:31 | 37.73 | 32.83 | 890 | 0.43 | 0.34 | 48.7 |
| 4/19/2015 16:18:31 | 38.06 | 33.16 | 882 | 0.43 | 0.34 | 48.2 |
| 4/19/2015 16:18:32 | 38.39 | 33.49 | 885 | 0.43 | 0.34 | 48.4 |
| 4/19/2015 16:18:32 | 38.71 | 33.81 | 885 | 0.43 | 0.34 | 48.4 |
| 4/19/2015 16:18:32 | 39.04 | 34.14 | 890 | 0.43 | 0.34 | 48.7 |
| 4/19/2015 16:18:40 | 39.37 | 34.47 | 0 | 0.31 | 0.34 | 0.0 |
| 4/19/2015 16:18:41 | 39.70 | 34.80 | 140 | 0.33 | 0.34 | 7.7 |
| 4/19/2015 16:18:41 | 40.03 | 35.13 | 140 | 0.33 | 0.34 | 7.7 |
| 4/19/2015 16:18:41 | 40.35 | 35.45 | 326 | 0.32 | 0.34 | 17.8 |
| 4/19/2015 16:18:42 | 40.68 | 35.78 | 511 | 0.33 | 0.34 | 27.9 |
| 4/19/2015 16:18:42 | 41.01 | 36.11 | 700 | 0.33 | 0.35 | 38.3 |
| 4/19/2015 16:18:43 | 41.34 | 36.44 | 700 | 0.33 | 0.35 | 38.3 |
| 4/19/2015 16:18:43 | 41.67 | 36.77 | 877 | 0.33 | 0.34 | 48.0 |
| 4/19/2015 16:18:44 | 41.99 | 37.09 | 925 | 0.33 | 0.34 | 50.6 |
| 4/19/2015 16:18:44 | 42.32 | 37.42 | 917 | 0.33 | 0.34 | 50.1 |
| 4/19/2015 16:18:45 | 42.65 | 37.75 | 917 | 0.33 | 0.34 | 50.1 |
| 4/19/2015 16:18:45 | 42.98 | 38.08 | 920 | 0.33 | 0.34 | 50.3 |
| 4/19/2015 16:18:45 | 43.31 | 38.41 | 920 | 0.33 | 0.34 | 50.3 |
| 4/19/2015 16:18:46 | 43.64 | 38.74 | 922 | 0.32 | 0.34 | 50.4 |
| 4/19/2015 16:18:46 | 43.96 | 39.06 | 922 | 0.32 | 0.34 | 50.4 |
| 4/19/2015 16:18:46 | 44.29 | 39.39 | 922 | 0.33 | 0.34 | 50.4 |
| 4/19/2015 16:18:47 | 44.62 | 39.72 | 931 | 0.33 | 0.34 | 50.9 |
| 4/19/2015 16:18:47 | 44.95 | 40.05 | 940 | 0.32 | 0.34 | 51.4 |
| 4/19/2015 16:18:48 | 45.28 | 40.38 | 940 | 0.32 | 0.34 | 51.4 |
| 4/19/2015 16:18:48 | 45.60 | 40.70 | 940 | 0.33 | 0.34 | 51.4 |
| 4/19/2015 16:18:48 | 45.93 | 41.03 | 948 | 0.33 | 0.34 | 51.8 |
| 4/19/2015 16:18:49 | 46.26 | 41.36 | 948 | 0.33 | 0.34 | 51.8 |
| 4/19/2015 16:18:49 | 46.59 | 41.69 | 940 | 0.30 | 0.34 | 51.4 |
| 4/19/2015 16:18:49 | 46.92 | 42.02 | 943 | 0.33 | 0.33 | 51.5 |
| 4/19/2015 16:18:50 | 47.24 | 42.34 | 939 | 0.33 | 0.34 | 51.4 |
| 4/19/2015 16:18:50 | 47.57 | 42.67 | 939 | 0.33 | 0.34 | 51.4 |
| 4/19/2015 16:18:50 | 47.90 | 43.00 | 934 | 0.33 | 0.34 | 51.1 |
| 4/19/2015 16:18:51 | 48.23 | 43.33 | 934 | 0.33 | 0.34 | 51.1 |
| 4/19/2015 16:18:51 | 48.56 | 43.66 | 939 | 0.33 | 0.34 | 51.4 |
| 4/19/2015 16:18:52 | 48.88 | 43.98 | 939 | 0.33 | 0.34 | 51.4 |
| 4/19/2015 16:18:52 | 49.21 | 44.31 | 922 | 0.33 | 0.34 | 50.4 |
| 4/19/2015 16:18:52 | 49.54 | 44.64 | 922 | 0.33 | 0.34 | 50.4 |
| 4/19/2015 16:18:53 | 49.87 | 44.97 | 922 | 0.33 | 0.34 | 50.4 |
| 4/19/2015 16:19:03 | 50.20 | 45.30 | 0 | 2.46 | 0.35 | 0.0 |
| 4/19/2015 16:19:04 | 50.53 | 45.63 | 63 | 2.46 | 0.34 | 3.4 |
| 4/19/2015 16:19:05 | 50.85 | 45.95 | 245 | 2.65 | 0.35 | 13.4 |
| 4/19/2015 16:19:05 | 51.18 | 46.28 | 245 | 2.65 | 0.35 | 13.4 |
| 4/19/2015 16:19:07 | 51.51 | 46.61 | 476 | 3.85 | 0.40 | 26.0 |
| 4/19/2015 16:19:08 | 51.84 | 46.94 | 164 | 3.60 | 0.39 | 9.0 |
| 4/19/2015 16:19:09 | 52.17 | 47.27 | 189 | 2.84 | 0.39 | 10.3 |
| 4/19/2015 16:19:10 | 52.49 | 47.59 | 256 | 3.45 | 0.38 | 14.0 |
| 4/19/2015 16:19:29 | 52.82 | 47.92 | 103 | 2.69 | 0.40 | 5.6 |
| 4/19/2015 16:19:31 | 53.15 | 48.25 | 266 | 2.97 | 0.41 | 14.5 |
| 4/19/2015 16:19:35 | 53.48 | 48.58 | 95 | 2.91 | 0.41 | 5.2 |
| 4/19/2015 16:19:37 | 53.81 | 48.91 | 133 | 2.56 | 0.39 | 7.3 |
| 4/19/2015 16:19:38 | 54.13 | 49.23 | 260 | 2.30 | 0.37 | 14.2 |
| 4/19/2015 16:19:39 | 54.46 | 49.56 | 348 | 2.31 | 0.37 | 19.0 |
| 4/19/2015 16:19:39 | 54.79 | 49.89 | 443 | 3.21 | 0.37 | 24.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 16:19:40 | 55.12 | 50.22 | 511 | 3.34 | 0.39 | 28.0 |
| 4/19/2015 | 16:19:41 | 55.45 | 50.55 | 424 | 2.97 | 0.39 | 23.2 |
| 4/19/2015 | 16:19:45 | 55.77 | 50.87 | 52 | 5.37 | 0.42 | 2.8 |
| 4/19/2015 | 16:19:53 | 56.10 | 51.20 | 97 | 2.50 | 0.38 | 5.3 |
| 4/19/2015 | 16:19:55 | 56.43 | 51.53 | 169 | 2.86 | 0.39 | 9.2 |
| 4/19/2015 | 16:19:57 | 56.76 | 51.86 | 209 | 4.19 | 0.39 | 11.4 |
| 4/19/2015 | 16:19:58 | 57.09 | 52.19 | 227 | 5.49 | 0.41 | 12.4 |
| 4/19/2015 | 16:20:00 | 57.41 | 52.51 | 194 | 4.96 | 0.38 | 10.6 |
| 4/19/2015 | 16:20:02 | 57.74 | 52.84 | 239 | 3.44 | 0.40 | 13.1 |
| 4/19/2015 | 16:20:03 | 58.07 | 53.17 | 220 | 2.85 | 0.40 | 12.0 |
| 4/19/2015 | 16:20:05 | 58.40 | 53.50 | 203 | 5.92 | 0.42 | 11.1 |
| 4/19/2015 | 16:20:08 | 58.73 | 53.83 | 153 | 4.66 | 0.38 | 8.4 |
| 4/19/2015 | 16:20:11 | 59.06 | 54.16 | 103 | 3.71 | 0.41 | 5.6 |
| 4/19/2015 | 16:20:14 | 59.38 | 54.48 | 142 | 4.09 | 0.41 | 7.8 |
| 4/19/2015 | 16:20:16 | 59.71 | 54.81 | 124 | 5.00 | 0.41 | 6.8 |

## E161 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 16:14:30

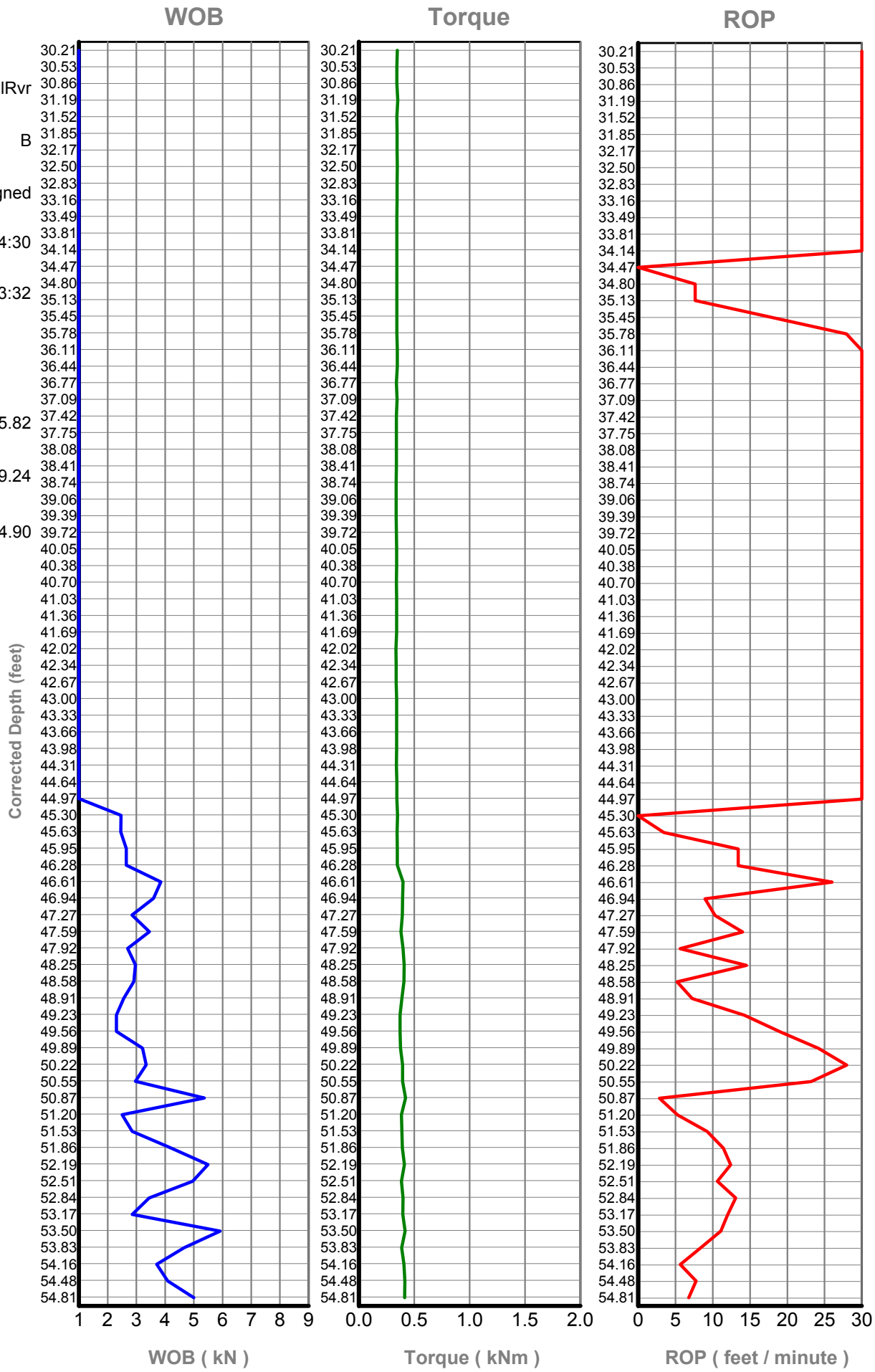
**End Date:**
4/19/2015 16:23:32

**Operator Note:**
'4.9 '4.4 4.7 b Auto Complete'

**Northing:**
369,005.82

**Easting:**
254,029.24

**Tide (feet):**
4.90



## Hole: E162 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:07:02 | 37.07 | 30.17 | 1,404 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 3:07:02 | 37.40 | 30.50 | 1,404 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 3:07:03 | 37.73 | 30.83 | 1,404 | 3.20 | 0.15 | 76.8 |
| 4/22/2015 3:07:03 | 38.06 | 31.16 | 1,404 | 3.20 | 0.15 | 76.8 |
| 4/22/2015 3:07:03 | 38.39 | 31.49 | 1,412 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:07:04 | 38.71 | 31.81 | 1,412 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:07:04 | 39.04 | 32.14 | 1,435 | 3.20 | 0.16 | 78.5 |
| 4/22/2015 3:07:04 | 39.37 | 32.47 | 1,435 | 3.20 | 0.16 | 78.5 |
| 4/22/2015 3:07:04 | 39.70 | 32.80 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 3:07:05 | 40.03 | 33.13 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 3:07:05 | 40.35 | 33.45 | 1,413 | 3.22 | 0.16 | 77.3 |
| 4/22/2015 3:07:05 | 40.68 | 33.78 | 1,413 | 3.22 | 0.16 | 77.3 |
| 4/22/2015 3:07:05 | 41.01 | 34.11 | 1,436 | 3.21 | 0.16 | 78.5 |
| 4/22/2015 3:07:06 | 41.34 | 34.44 | 1,436 | 3.21 | 0.16 | 78.5 |
| 4/22/2015 3:07:06 | 41.67 | 34.77 | 1,428 | 3.21 | 0.16 | 78.1 |
| 4/22/2015 3:07:06 | 41.99 | 35.09 | 1,428 | 3.21 | 0.16 | 78.1 |
| 4/22/2015 3:07:06 | 42.32 | 35.42 | 1,422 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 3:07:07 | 42.65 | 35.75 | 1,422 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 3:07:07 | 42.98 | 36.08 | 1,422 | 3.19 | 0.15 | 77.8 |
| 4/22/2015 3:07:07 | 43.31 | 36.41 | 1,422 | 3.19 | 0.15 | 77.8 |
| 4/22/2015 3:07:07 | 43.64 | 36.74 | 1,422 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 3:07:08 | 43.96 | 37.06 | 1,422 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 3:07:08 | 44.29 | 37.39 | 1,425 | 3.20 | 0.16 | 77.9 |
| 4/22/2015 3:07:08 | 44.62 | 37.72 | 1,425 | 3.20 | 0.16 | 77.9 |
| 4/22/2015 3:07:09 | 44.95 | 38.05 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:07:09 | 45.28 | 38.38 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:07:09 | 45.60 | 38.70 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:07:09 | 45.93 | 39.03 | 1,414 | 2.94 | 0.15 | 77.3 |
| 4/22/2015 3:07:09 | 46.26 | 39.36 | 1,414 | 2.94 | 0.15 | 77.3 |
| 4/22/2015 3:07:10 | 46.59 | 39.69 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:07:10 | 46.92 | 40.02 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:07:10 | 47.24 | 40.34 | 1,426 | 3.20 | 0.16 | 78.0 |
| 4/22/2015 3:07:10 | 47.57 | 40.67 | 1,426 | 3.20 | 0.16 | 78.0 |
| 4/22/2015 3:07:11 | 47.90 | 41.00 | 1,423 | 3.23 | 0.15 | 77.8 |
| 4/22/2015 3:07:11 | 48.23 | 41.33 | 1,423 | 3.23 | 0.15 | 77.8 |
| 4/22/2015 3:07:11 | 48.56 | 41.66 | 1,423 | 3.20 | 0.15 | 77.8 |
| 4/22/2015 3:07:11 | 48.88 | 41.98 | 1,423 | 3.20 | 0.15 | 77.8 |
| 4/22/2015 3:07:12 | 49.21 | 42.31 | 1,425 | 3.20 | 0.15 | 77.9 |
| 4/22/2015 3:07:12 | 49.54 | 42.64 | 1,425 | 3.20 | 0.15 | 77.9 |
| 4/22/2015 3:07:12 | 49.87 | 42.97 | 1,434 | 3.20 | 0.16 | 78.4 |
| 4/22/2015 3:07:12 | 50.20 | 43.30 | 1,434 | 3.20 | 0.16 | 78.4 |
| 4/22/2015 3:07:13 | 50.53 | 43.63 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:07:13 | 50.85 | 43.95 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:07:13 | 51.18 | 44.28 | 1,425 | 3.20 | 0.16 | 77.9 |
| 4/22/2015 3:07:14 | 51.51 | 44.61 | 1,425 | 3.20 | 0.16 | 77.9 |
| 4/22/2015 3:07:14 | 51.84 | 44.94 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:07:14 | 52.17 | 45.27 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:07:14 | 52.49 | 45.59 | 1,426 | 3.21 | 0.15 | 78.0 |
| 4/22/2015 3:07:15 | 52.82 | 45.92 | 1,426 | 3.21 | 0.15 | 78.0 |
| 4/22/2015 3:07:15 | 53.15 | 46.25 | 1,408 | 3.21 | 0.15 | 77.0 |
| 4/22/2015 3:07:15 | 53.48 | 46.58 | 1,408 | 3.21 | 0.15 | 77.0 |
| 4/22/2015 3:07:15 | 53.81 | 46.91 | 1,414 | 3.21 | 0.16 | 77.3 |
| 4/22/2015 3:07:16 | 54.13 | 47.23 | 1,414 | 3.21 | 0.16 | 77.3 |
| 4/22/2015 3:07:16 | 54.46 | 47.56 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:07:16 | 54.79 | 47.89 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:07:16 | 55.12 | 48.22 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:07:16 | 55.45 | 48.55 | 1,428 | 3.22 | 0.15 | 78.1 |
| 4/22/2015 3:07:17 | 55.77 | 48.87 | 1,428 | 3.22 | 0.15 | 78.1 |
| 4/22/2015 3:07:17 | 56.10 | 49.20 | 1,411 | 3.23 | 0.15 | 77.1 |
| 4/22/2015 3:07:18 | 56.43 | 49.53 | 1,411 | 3.23 | 0.15 | 77.1 |
| 4/22/2015 3:07:18 | 56.76 | 49.86 | 1,405 | 3.24 | 0.15 | 76.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:07:18 | 57.09 | 50.19 | 1,356 | 3.24 | 0.16 | 74.2 |
| 4/22/2015 | 3:07:19 | 57.41 | 50.51 | 1,356 | 3.24 | 0.16 | 74.2 |
| 4/22/2015 | 3:07:20 | 57.74 | 50.84 | 740 | 1.91 | 0.15 | 40.5 |
| 4/22/2015 | 3:07:20 | 58.07 | 51.17 | 618 | 3.14 | 0.15 | 33.8 |
| 4/22/2015 | 3:07:22 | 58.40 | 51.50 | 342 | 3.26 | 0.15 | 18.7 |
| 4/22/2015 | 3:07:23 | 58.73 | 51.83 | 342 | 3.26 | 0.15 | 18.7 |
| 4/22/2015 | 3:07:23 | 59.06 | 52.16 | 442 | 3.26 | 0.15 | 24.2 |
| 4/22/2015 | 3:07:23 | 59.38 | 52.48 | 442 | 3.26 | 0.15 | 24.2 |
| 4/22/2015 | 3:07:24 | 59.71 | 52.81 | 621 | 3.26 | 0.16 | 34.0 |
| 4/22/2015 | 3:07:24 | 60.04 | 53.14 | 621 | 3.26 | 0.16 | 34.0 |
| 4/22/2015 | 3:07:24 | 60.37 | 53.47 | 853 | 3.14 | 0.16 | 46.7 |
| 4/22/2015 | 3:07:26 | 60.70 | 53.80 | 618 | 2.09 | 0.15 | 33.8 |
| 4/22/2015 | 3:08:03 | 61.02 | 54.12 | 24 | 2.99 | 1.00 | 1.3 |
| 4/22/2015 | 3:08:06 | 61.35 | 54.45 | 76 | 3.01 | 1.04 | 4.2 |
| 4/22/2015 | 3:08:08 | 61.68 | 54.78 | 209 | 2.18 | 1.05 | 11.5 |
| 4/22/2015 | 3:08:09 | 61.87 | 54.97 | 89 | 3.09 | 0.96 | 4.9 |

## E162 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:05:27

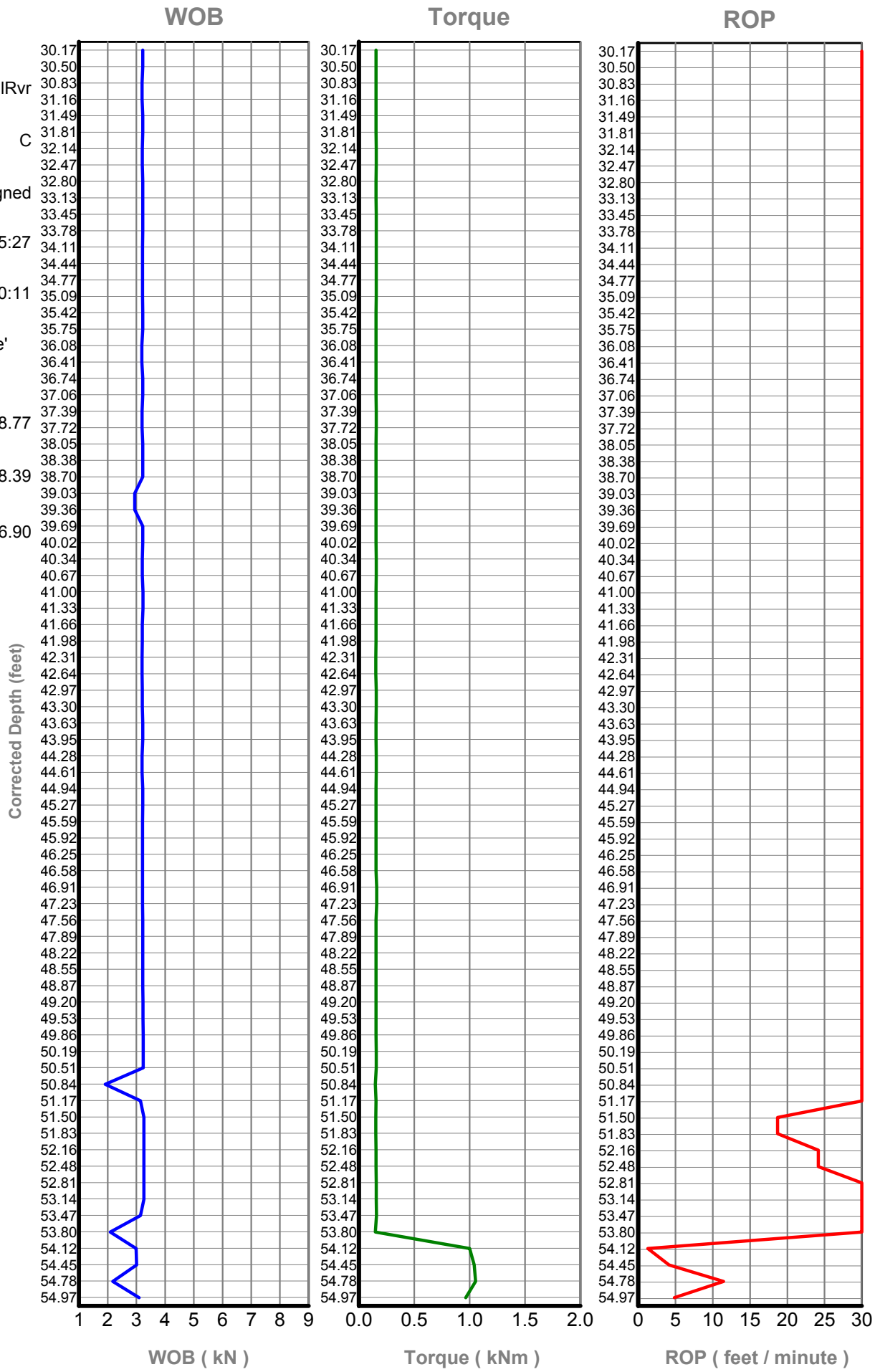
**End Date:**
4/22/2015 3:10:11

**Operator Note:**
'6.9 6.8 c Auto Complete'

**Northing:**
367,948.77

**Easting:**
252,848.39

**Tide (feet):**
6.90



## Hole: E163 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:59:48 | 37.07 | 30.27 | 1,408 | 3.20 | 0.16 | 77.0 |
| 4/22/2015 2:59:48 | 37.40 | 30.60 | 1,411 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 2:59:49 | 37.73 | 30.93 | 1,411 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 2:59:49 | 38.06 | 31.26 | 1,414 | 3.80 | 0.16 | 77.3 |
| 4/22/2015 2:59:56 | 38.39 | 31.59 | 0 | 3.37 | 0.15 | 0.0 |
| 4/22/2015 2:59:56 | 38.71 | 31.91 | 153 | 3.22 | 0.15 | 8.4 |
| 4/22/2015 2:59:57 | 39.04 | 32.24 | 153 | 3.22 | 0.15 | 8.4 |
| 4/22/2015 2:59:57 | 39.37 | 32.57 | 410 | 3.24 | 0.16 | 22.4 |
| 4/22/2015 2:59:57 | 39.70 | 32.90 | 410 | 3.24 | 0.16 | 22.4 |
| 4/22/2015 2:59:57 | 40.03 | 33.23 | 410 | 3.24 | 0.16 | 22.4 |
| 4/22/2015 2:59:57 | 40.35 | 33.55 | 410 | 3.20 | 0.16 | 22.4 |
| 4/22/2015 2:59:58 | 40.68 | 33.88 | 410 | 3.20 | 0.16 | 22.4 |
| 4/22/2015 2:59:58 | 41.01 | 34.21 | 711 | 3.23 | 0.16 | 38.9 |
| 4/22/2015 2:59:58 | 41.34 | 34.54 | 711 | 3.23 | 0.16 | 38.9 |
| 4/22/2015 2:59:58 | 41.67 | 34.87 | 991 | 3.22 | 0.16 | 54.2 |
| 4/22/2015 2:59:59 | 41.99 | 35.19 | 991 | 3.22 | 0.16 | 54.2 |
| 4/22/2015 2:59:59 | 42.32 | 35.52 | 1,271 | 3.20 | 0.17 | 69.5 |
| 4/22/2015 2:59:59 | 42.65 | 35.85 | 1,271 | 3.20 | 0.17 | 69.5 |
| 4/22/2015 2:59:59 | 42.98 | 36.18 | 1,409 | 3.21 | 0.15 | 77.0 |
| 4/22/2015 3:00:00 | 43.31 | 36.51 | 1,409 | 3.21 | 0.15 | 77.0 |
| 4/22/2015 3:00:00 | 43.64 | 36.84 | 1,432 | 3.21 | 0.15 | 78.3 |
| 4/22/2015 3:00:00 | 43.96 | 37.16 | 1,432 | 3.21 | 0.15 | 78.3 |
| 4/22/2015 3:00:00 | 44.29 | 37.49 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:01 | 44.62 | 37.82 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:01 | 44.95 | 38.15 | 1,422 | 3.23 | 0.16 | 77.8 |
| 4/22/2015 3:00:01 | 45.28 | 38.48 | 1,422 | 3.23 | 0.16 | 77.8 |
| 4/22/2015 3:00:02 | 45.60 | 38.80 | 1,422 | 3.24 | 0.16 | 77.8 |
| 4/22/2015 3:00:02 | 45.93 | 39.13 | 1,422 | 3.24 | 0.16 | 77.8 |
| 4/22/2015 3:00:02 | 46.26 | 39.46 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:00:02 | 46.59 | 39.79 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:00:03 | 46.92 | 40.12 | 1,419 | 3.20 | 0.16 | 77.6 |
| 4/22/2015 3:00:03 | 47.24 | 40.44 | 1,419 | 3.20 | 0.16 | 77.6 |
| 4/22/2015 3:00:03 | 47.57 | 40.77 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:00:03 | 47.90 | 41.10 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:00:04 | 48.23 | 41.43 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:04 | 48.56 | 41.76 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:04 | 48.88 | 42.08 | 1,419 | 3.19 | 0.16 | 77.6 |
| 4/22/2015 3:00:04 | 49.21 | 42.41 | 1,419 | 3.19 | 0.16 | 77.6 |
| 4/22/2015 3:00:05 | 49.54 | 42.74 | 1,419 | 3.19 | 0.16 | 77.6 |
| 4/22/2015 3:00:05 | 49.87 | 43.07 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:05 | 50.20 | 43.40 | 1,422 | 3.22 | 0.16 | 77.8 |
| 4/22/2015 3:00:05 | 50.53 | 43.73 | 1,422 | 3.21 | 0.15 | 77.8 |
| 4/22/2015 3:00:05 | 50.85 | 44.05 | 1,422 | 3.21 | 0.15 | 77.8 |
| 4/22/2015 3:00:06 | 51.18 | 44.38 | 1,425 | 3.23 | 0.16 | 77.9 |
| 4/22/2015 3:00:06 | 51.51 | 44.71 | 1,425 | 3.23 | 0.16 | 77.9 |
| 4/22/2015 3:00:06 | 51.84 | 45.04 | 1,416 | 3.21 | 0.16 | 77.5 |
| 4/22/2015 3:00:07 | 52.17 | 45.37 | 1,416 | 3.21 | 0.16 | 77.5 |
| 4/22/2015 3:00:07 | 52.49 | 45.69 | 1,419 | 3.24 | 0.16 | 77.6 |
| 4/22/2015 3:00:07 | 52.82 | 46.02 | 1,419 | 3.24 | 0.16 | 77.6 |
| 4/22/2015 3:00:07 | 53.15 | 46.35 | 1,405 | 3.19 | 0.16 | 76.8 |
| 4/22/2015 3:00:08 | 53.48 | 46.68 | 1,405 | 3.19 | 0.16 | 76.8 |
| 4/22/2015 3:00:08 | 53.81 | 47.01 | 1,416 | 3.21 | 0.16 | 77.5 |
| 4/22/2015 3:00:08 | 54.13 | 47.33 | 1,416 | 3.21 | 0.16 | 77.5 |
| 4/22/2015 3:00:08 | 54.46 | 47.66 | 1,411 | 3.21 | 0.15 | 77.1 |
| 4/22/2015 3:00:09 | 54.79 | 47.99 | 1,411 | 3.21 | 0.15 | 77.1 |
| 4/22/2015 3:00:09 | 55.12 | 48.32 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 3:00:10 | 55.45 | 48.65 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 3:00:10 | 55.77 | 48.97 | 1,393 | 3.26 | 0.16 | 76.2 |
| 4/22/2015 3:00:10 | 56.10 | 49.30 | 1,393 | 3.26 | 0.16 | 76.2 |
| 4/22/2015 3:00:10 | 56.43 | 49.63 | 1,387 | 3.24 | 0.16 | 75.8 |
| 4/22/2015 3:00:11 | 56.76 | 49.96 | 1,387 | 3.24 | 0.16 | 75.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:00:11 | 57.09 | 50.29 | 1,344 | 3.24 | 0.16 | 73.5 |
| 4/22/2015 | 3:00:11 | 57.41 | 50.61 | 1,344 | 3.24 | 0.16 | 73.5 |
| 4/22/2015 | 3:00:11 | 57.74 | 50.94 | 1,323 | 3.26 | 0.16 | 72.3 |
| 4/22/2015 | 3:00:12 | 58.07 | 51.27 | 1,281 | 3.27 | 0.16 | 70.0 |
| 4/22/2015 | 3:00:12 | 58.40 | 51.60 | 1,281 | 3.27 | 0.16 | 70.0 |
| 4/22/2015 | 3:00:12 | 58.73 | 51.93 | 1,246 | 1.72 | 0.16 | 68.2 |
| 4/22/2015 | 3:01:22 | 59.06 | 52.26 | 0 | 2.00 | 0.98 | 0.0 |
| 4/22/2015 | 3:01:24 | 59.38 | 52.58 | 97 | 3.18 | 0.96 | 5.3 |
| 4/22/2015 | 3:01:24 | 59.71 | 52.91 | 217 | 2.07 | 0.94 | 11.9 |
| 4/22/2015 | 3:01:27 | 60.04 | 53.24 | 6 | 1.44 | 0.95 | 0.3 |
| 4/22/2015 | 3:01:28 | 60.37 | 53.57 | 121 | 3.24 | 1.03 | 6.6 |
| 4/22/2015 | 3:01:32 | 60.70 | 53.90 | 40 | 3.01 | 1.13 | 2.2 |
| 4/22/2015 | 3:01:36 | 61.02 | 54.22 | 0 | 3.27 | 1.01 | 0.0 |
| 4/22/2015 | 3:01:38 | 61.35 | 54.55 | 114 | 1.56 | 1.18 | 6.2 |
| 4/22/2015 | 3:01:43 | 61.68 | 54.88 | 45 | 1.92 | 1.03 | 2.5 |
| 4/22/2015 | 3:01:43 | 61.77 | 54.97 | 45 | 1.92 | 1.03 | 2.5 |

## E163 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:58:27

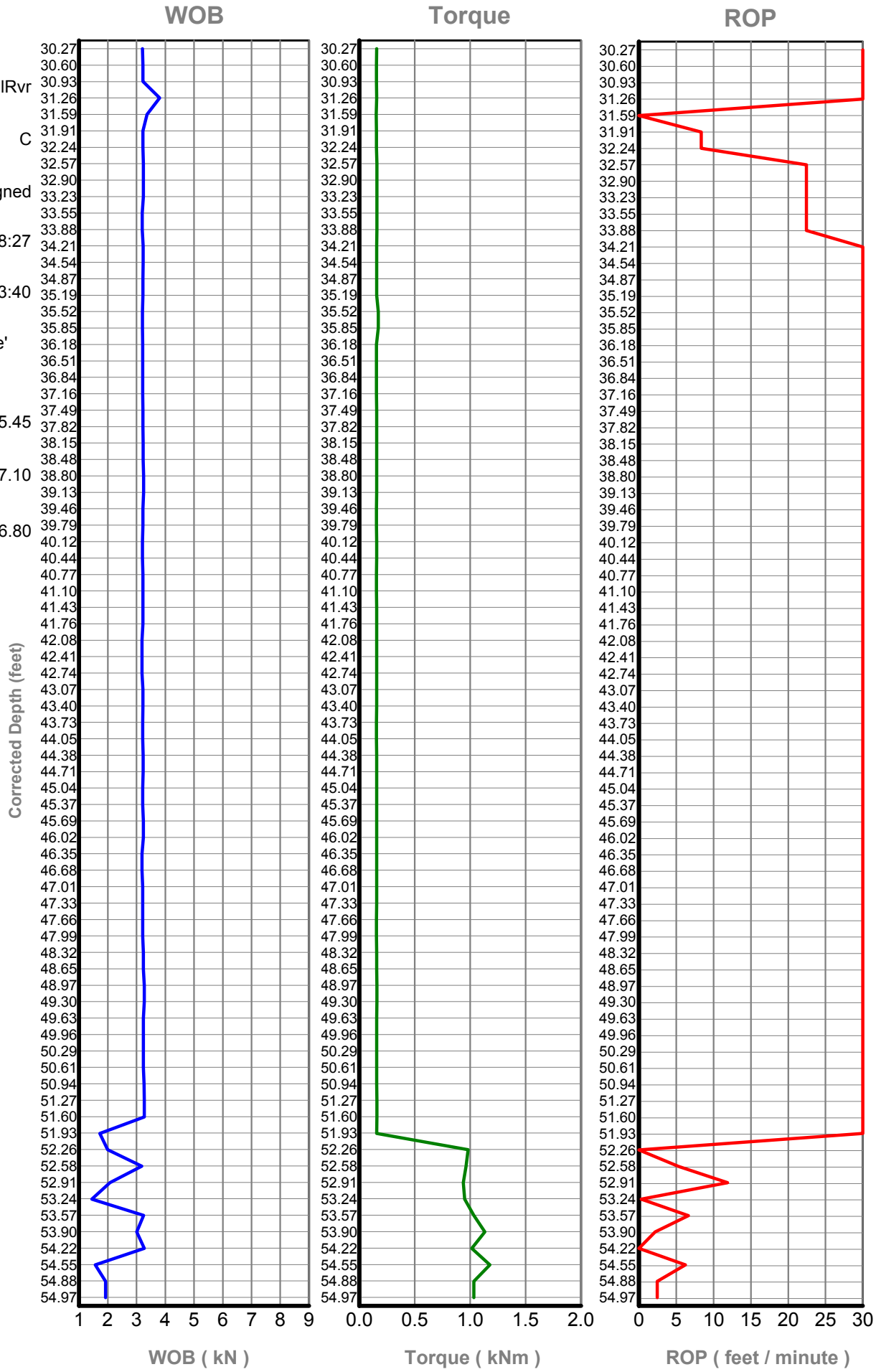
**End Date:**
4/22/2015 3:03:40

**Operator Note:**
'6.8 6.7 c Auto Complete'

**Northing:**
367,995.45

**Easting:**
252,907.10

**Tide (feet):**
6.80



## Hole: E164 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:30:35 | 31.17 | 30.17 | 948 | 0.73 | 0.32 | 51.9 |
| 4/21/2015 21:30:35 | 31.50 | 30.50 | 948 | 0.75 | 0.32 | 51.9 |
| 4/21/2015 21:30:36 | 31.82 | 30.82 | 951 | 0.74 | 0.32 | 52.0 |
| 4/21/2015 21:30:36 | 32.15 | 31.15 | 951 | 0.74 | 0.32 | 52.0 |
| 4/21/2015 21:30:36 | 32.48 | 31.48 | 945 | 0.74 | 0.32 | 51.7 |
| 4/21/2015 21:30:37 | 32.81 | 31.81 | 945 | 0.73 | 0.32 | 51.7 |
| 4/21/2015 21:30:37 | 33.14 | 32.14 | 945 | 0.73 | 0.32 | 51.7 |
| 4/21/2015 21:30:37 | 33.46 | 32.46 | 945 | 0.73 | 0.32 | 51.7 |
| 4/21/2015 21:30:38 | 33.79 | 32.79 | 954 | 0.74 | 0.32 | 52.2 |
| 4/21/2015 21:30:38 | 34.12 | 33.12 | 953 | 0.74 | 0.32 | 52.1 |
| 4/21/2015 21:30:39 | 34.45 | 33.45 | 953 | 0.74 | 0.32 | 52.1 |
| 4/21/2015 21:30:39 | 34.78 | 33.78 | 948 | 0.74 | 0.32 | 51.8 |
| 4/21/2015 21:30:39 | 35.11 | 34.11 | 948 | 0.74 | 0.32 | 51.8 |
| 4/21/2015 21:30:40 | 35.43 | 34.43 | 951 | 0.75 | 0.32 | 52.0 |
| 4/21/2015 21:30:40 | 35.76 | 34.76 | 951 | 0.75 | 0.32 | 52.0 |
| 4/21/2015 21:30:40 | 36.09 | 35.09 | 939 | 0.74 | 0.32 | 51.4 |
| 4/21/2015 21:30:41 | 36.42 | 35.42 | 939 | 0.75 | 0.30 | 51.4 |
| 4/21/2015 21:30:41 | 36.75 | 35.75 | 939 | 0.73 | 0.32 | 51.4 |
| 4/21/2015 21:30:42 | 37.07 | 36.07 | 939 | 0.73 | 0.32 | 51.4 |
| 4/21/2015 21:30:42 | 37.40 | 36.40 | 939 | 0.75 | 0.32 | 51.4 |
| 4/21/2015 21:30:43 | 37.73 | 36.73 | 937 | 0.75 | 0.32 | 51.2 |
| 4/21/2015 21:30:43 | 38.06 | 37.06 | 937 | 0.75 | 0.32 | 51.2 |
| 4/21/2015 21:30:43 | 38.39 | 37.39 | 939 | 0.75 | 0.32 | 51.4 |
| 4/21/2015 21:30:44 | 38.71 | 37.71 | 937 | 0.74 | 0.32 | 51.2 |
| 4/21/2015 21:30:44 | 39.04 | 38.04 | 945 | 0.75 | 0.32 | 51.7 |
| 4/21/2015 21:30:45 | 39.37 | 38.37 | 945 | 0.75 | 0.32 | 51.7 |
| 4/21/2015 21:30:45 | 39.70 | 38.70 | 945 | 0.74 | 0.33 | 51.7 |
| 4/21/2015 21:30:45 | 40.03 | 39.03 | 945 | 0.75 | 0.33 | 51.7 |
| 4/21/2015 21:30:46 | 40.35 | 39.35 | 945 | 0.75 | 0.33 | 51.7 |
| 4/21/2015 21:30:46 | 40.68 | 39.68 | 945 | 0.75 | 0.32 | 51.7 |
| 4/21/2015 21:30:46 | 41.01 | 40.01 | 948 | 0.75 | 0.32 | 51.8 |
| 4/21/2015 21:30:47 | 41.34 | 40.34 | 927 | 0.75 | 0.32 | 50.7 |
| 4/21/2015 21:30:47 | 41.67 | 40.67 | 927 | 0.75 | 0.32 | 50.7 |
| 4/21/2015 21:30:47 | 41.99 | 40.99 | 927 | 0.75 | 0.32 | 50.7 |
| 4/21/2015 21:30:48 | 42.32 | 41.32 | 934 | 0.75 | 0.33 | 51.1 |
| 4/21/2015 21:30:48 | 42.65 | 41.65 | 937 | 0.74 | 0.32 | 51.2 |
| 4/21/2015 21:30:49 | 42.98 | 41.98 | 937 | 0.74 | 0.32 | 51.2 |
| 4/21/2015 21:30:49 | 43.31 | 42.31 | 940 | 0.75 | 0.32 | 51.4 |
| 4/21/2015 21:30:49 | 43.64 | 42.64 | 942 | 0.75 | 0.32 | 51.5 |
| 4/21/2015 21:30:50 | 43.96 | 42.96 | 942 | 0.75 | 0.32 | 51.5 |
| 4/21/2015 21:30:50 | 44.29 | 43.29 | 958 | 0.74 | 0.32 | 52.4 |
| 4/21/2015 21:30:50 | 44.62 | 43.62 | 954 | 0.74 | 0.32 | 52.2 |
| 4/21/2015 21:30:51 | 44.95 | 43.95 | 948 | 0.75 | 0.33 | 51.8 |
| 4/21/2015 21:30:51 | 45.28 | 44.28 | 948 | 0.75 | 0.33 | 51.8 |
| 4/21/2015 21:30:51 | 45.60 | 44.60 | 948 | 0.74 | 0.32 | 51.8 |
| 4/21/2015 21:30:52 | 45.93 | 44.93 | 942 | 0.74 | 0.32 | 51.5 |
| 4/21/2015 21:30:53 | 46.26 | 45.26 | 945 | 0.75 | 0.32 | 51.7 |
| 4/21/2015 21:30:53 | 46.59 | 45.59 | 945 | 0.75 | 0.32 | 51.7 |
| 4/21/2015 21:30:53 | 46.92 | 45.92 | 942 | 0.74 | 0.32 | 51.5 |
| 4/21/2015 21:30:54 | 47.24 | 46.24 | 945 | 0.74 | 0.32 | 51.7 |
| 4/21/2015 21:30:54 | 47.57 | 46.57 | 945 | 0.74 | 0.32 | 51.7 |
| 4/21/2015 21:30:54 | 47.90 | 46.90 | 948 | 0.75 | 0.32 | 51.8 |
| 4/21/2015 21:30:55 | 48.23 | 47.23 | 951 | 0.75 | 0.33 | 52.0 |
| 4/21/2015 21:30:55 | 48.56 | 47.56 | 951 | 0.75 | 0.33 | 52.0 |
| 4/21/2015 21:30:56 | 48.88 | 47.88 | 951 | 0.75 | 0.33 | 52.0 |
| 4/21/2015 21:30:56 | 49.21 | 48.21 | 945 | 0.74 | 0.32 | 51.7 |
| 4/21/2015 21:30:56 | 49.54 | 48.54 | 937 | 0.75 | 0.32 | 51.2 |
| 4/21/2015 21:30:57 | 49.87 | 48.87 | 940 | 0.74 | 0.33 | 51.4 |
| 4/21/2015 21:30:57 | 50.20 | 49.20 | 940 | 0.74 | 0.33 | 51.4 |
| 4/21/2015 21:30:57 | 50.53 | 49.53 | 937 | 0.74 | 0.32 | 51.2 |
| 4/21/2015 21:30:58 | 50.85 | 49.85 | 934 | 0.75 | 0.32 | 51.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:30:58 | 51.18 | 50.18 | 934 | 0.75 | 0.32 | 51.1 |
| 4/21/2015 | 21:30:58 | 51.51 | 50.51 | 937 | 0.75 | 0.33 | 51.2 |
| 4/21/2015 | 21:30:59 | 51.84 | 50.84 | 939 | 0.73 | 0.33 | 51.4 |
| 4/21/2015 | 21:30:59 | 52.17 | 51.17 | 916 | 0.75 | 0.33 | 50.1 |
| 4/21/2015 | 21:31:00 | 52.49 | 51.49 | 899 | 0.74 | 0.33 | 49.2 |
| 4/21/2015 | 21:31:00 | 52.82 | 51.82 | 899 | 0.74 | 0.33 | 49.2 |
| 4/21/2015 | 21:31:00 | 53.15 | 52.15 | 882 | 0.74 | 0.33 | 48.2 |
| 4/21/2015 | 21:31:01 | 53.48 | 52.48 | 864 | 0.74 | 0.33 | 47.3 |
| 4/21/2015 | 21:31:02 | 53.81 | 52.81 | 847 | 0.73 | 0.34 | 46.3 |
| 4/21/2015 | 21:31:02 | 54.13 | 53.13 | 815 | 0.73 | 0.34 | 44.5 |
| 4/21/2015 | 21:31:02 | 54.46 | 53.46 | 815 | 0.73 | 0.34 | 44.5 |
| 4/21/2015 | 21:31:03 | 54.79 | 53.79 | 815 | 0.73 | 0.34 | 44.5 |
| 4/21/2015 | 21:31:03 | 55.12 | 54.12 | 824 | 0.73 | 0.35 | 45.0 |
| 4/21/2015 | 21:31:04 | 55.45 | 54.45 | 710 | 0.72 | 0.37 | 38.8 |
| 4/21/2015 | 21:35:20 | 55.77 | 54.77 | 0 | 2.25 | 0.35 | 0.0 |
| 4/21/2015 | 21:35:21 | 56.10 | 55.10 | 203 | 2.66 | 0.38 | 11.1 |
| 4/21/2015 | 21:35:22 | 56.20 | 55.20 | 264 | 5.07 | 0.40 | 14.4 |

## E164 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:28:08

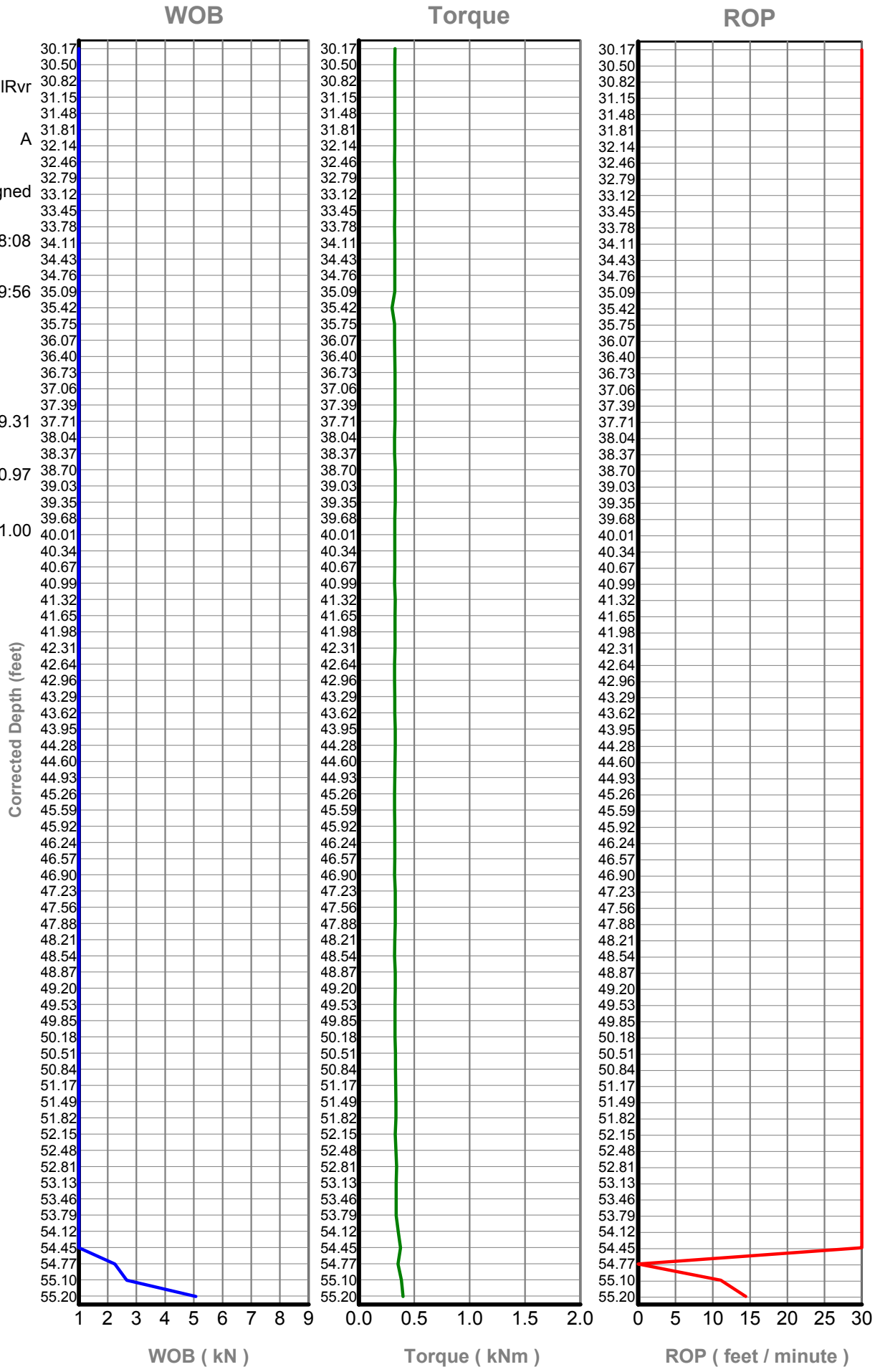
**End Date:**
4/21/2015 21:39:56

**Operator Note:**
'1 1.2 b Auto Complete'

**Northing:**
368,049.31

**Easting:**
252,960.97

**Tide (feet):**
1.00



## Hole: E165 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:38:17 | 31.17 | 30.17 | 1,558 | 3.28 | 0.14 | 85.2 |
| 4/21/2015 21:38:17 | 31.50 | 30.50 | 1,558 | 3.28 | 0.14 | 85.2 |
| 4/21/2015 21:38:18 | 31.82 | 30.82 | 1,555 | 3.28 | 0.14 | 85.1 |
| 4/21/2015 21:38:18 | 32.15 | 31.15 | 1,555 | 3.28 | 0.14 | 85.1 |
| 4/21/2015 21:38:18 | 32.48 | 31.48 | 1,561 | 3.26 | 0.14 | 85.4 |
| 4/21/2015 21:38:18 | 32.81 | 31.81 | 1,561 | 3.26 | 0.14 | 85.4 |
| 4/21/2015 21:38:19 | 33.14 | 32.14 | 1,555 | 3.27 | 0.14 | 85.0 |
| 4/21/2015 21:38:19 | 33.46 | 32.46 | 1,555 | 3.27 | 0.14 | 85.0 |
| 4/21/2015 21:38:19 | 33.79 | 32.79 | 1,555 | 3.27 | 0.14 | 85.0 |
| 4/21/2015 21:38:19 | 34.12 | 33.12 | 1,543 | 3.20 | 0.14 | 84.4 |
| 4/21/2015 21:38:19 | 34.45 | 33.45 | 1,543 | 3.20 | 0.14 | 84.4 |
| 4/21/2015 21:38:20 | 34.78 | 33.78 | 1,543 | 3.22 | 0.14 | 84.4 |
| 4/21/2015 21:38:20 | 35.11 | 34.11 | 1,543 | 3.22 | 0.14 | 84.4 |
| 4/21/2015 21:38:20 | 35.43 | 34.43 | 1,558 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:20 | 35.76 | 34.76 | 1,558 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:21 | 36.09 | 35.09 | 1,558 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:21 | 36.42 | 35.42 | 1,559 | 3.26 | 0.14 | 85.2 |
| 4/21/2015 21:38:21 | 36.75 | 35.75 | 1,559 | 3.26 | 0.14 | 85.2 |
| 4/21/2015 21:38:21 | 37.07 | 36.07 | 1,549 | 3.25 | 0.14 | 84.7 |
| 4/21/2015 21:38:22 | 37.40 | 36.40 | 1,549 | 3.25 | 0.14 | 84.7 |
| 4/21/2015 21:38:22 | 37.73 | 36.73 | 1,549 | 3.26 | 0.14 | 84.7 |
| 4/21/2015 21:38:22 | 38.06 | 37.06 | 1,549 | 3.26 | 0.14 | 84.7 |
| 4/21/2015 21:38:22 | 38.39 | 37.39 | 1,565 | 3.22 | 0.15 | 85.6 |
| 4/21/2015 21:38:23 | 38.71 | 37.71 | 1,565 | 3.22 | 0.15 | 85.6 |
| 4/21/2015 21:38:23 | 39.04 | 38.04 | 1,565 | 3.22 | 0.15 | 85.6 |
| 4/21/2015 21:38:23 | 39.37 | 38.37 | 1,550 | 3.22 | 0.14 | 84.7 |
| 4/21/2015 21:38:23 | 39.70 | 38.70 | 1,550 | 3.22 | 0.14 | 84.7 |
| 4/21/2015 21:38:23 | 40.03 | 39.03 | 1,552 | 3.27 | 0.14 | 84.9 |
| 4/21/2015 21:38:24 | 40.35 | 39.35 | 1,552 | 3.27 | 0.14 | 84.9 |
| 4/21/2015 21:38:24 | 40.68 | 39.68 | 1,544 | 3.27 | 0.14 | 84.4 |
| 4/21/2015 21:38:24 | 41.01 | 40.01 | 1,544 | 3.27 | 0.14 | 84.4 |
| 4/21/2015 21:38:24 | 41.34 | 40.34 | 1,559 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:25 | 41.67 | 40.67 | 1,559 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:25 | 41.99 | 40.99 | 1,559 | 3.24 | 0.14 | 85.2 |
| 4/21/2015 21:38:25 | 42.32 | 41.32 | 1,553 | 3.27 | 0.14 | 84.9 |
| 4/21/2015 21:38:25 | 42.65 | 41.65 | 1,553 | 3.27 | 0.14 | 84.9 |
| 4/21/2015 21:38:25 | 42.98 | 41.98 | 1,553 | 3.26 | 0.14 | 84.9 |
| 4/21/2015 21:38:26 | 43.31 | 42.31 | 1,553 | 3.26 | 0.14 | 84.9 |
| 4/21/2015 21:38:26 | 43.64 | 42.64 | 1,543 | 3.23 | 0.14 | 84.4 |
| 4/21/2015 21:38:26 | 43.96 | 42.96 | 1,543 | 3.23 | 0.14 | 84.4 |
| 4/21/2015 21:38:27 | 44.29 | 43.29 | 1,564 | 3.28 | 0.14 | 85.5 |
| 4/21/2015 21:38:27 | 44.62 | 43.62 | 1,564 | 3.28 | 0.14 | 85.5 |
| 4/21/2015 21:38:27 | 44.95 | 43.95 | 1,564 | 3.28 | 0.14 | 85.5 |
| 4/21/2015 21:38:27 | 45.28 | 44.28 | 1,549 | 3.24 | 0.14 | 84.7 |
| 4/21/2015 21:38:27 | 45.60 | 44.60 | 1,549 | 3.24 | 0.14 | 84.7 |
| 4/21/2015 21:38:28 | 45.93 | 44.93 | 1,547 | 3.28 | 0.14 | 84.6 |
| 4/21/2015 21:38:28 | 46.26 | 45.26 | 1,547 | 3.28 | 0.14 | 84.6 |
| 4/21/2015 21:38:28 | 46.59 | 45.59 | 1,547 | 3.24 | 0.14 | 84.6 |
| 4/21/2015 21:38:28 | 46.92 | 45.92 | 1,547 | 3.24 | 0.14 | 84.6 |
| 4/21/2015 21:38:29 | 47.24 | 46.24 | 1,532 | 3.22 | 0.15 | 83.8 |
| 4/21/2015 21:38:29 | 47.57 | 46.57 | 1,532 | 3.22 | 0.15 | 83.8 |
| 4/21/2015 21:38:29 | 47.90 | 46.90 | 1,532 | 3.22 | 0.15 | 83.8 |
| 4/21/2015 21:38:29 | 48.23 | 47.23 | 1,526 | 3.27 | 0.14 | 83.5 |
| 4/21/2015 21:38:29 | 48.56 | 47.56 | 1,526 | 3.27 | 0.14 | 83.5 |
| 4/21/2015 21:38:30 | 48.88 | 47.88 | 1,545 | 3.24 | 0.15 | 84.5 |
| 4/21/2015 21:38:30 | 49.21 | 48.21 | 1,545 | 3.24 | 0.15 | 84.5 |
| 4/21/2015 21:38:30 | 49.54 | 48.54 | 1,536 | 3.21 | 0.15 | 84.0 |
| 4/21/2015 21:38:31 | 49.87 | 48.87 | 1,536 | 3.21 | 0.15 | 84.0 |
| 4/21/2015 21:38:31 | 50.20 | 49.20 | 1,522 | 3.28 | 0.14 | 83.2 |
| 4/21/2015 21:38:31 | 50.53 | 49.53 | 1,522 | 3.28 | 0.14 | 83.2 |
| 4/21/2015 21:38:31 | 50.85 | 49.85 | 1,522 | 3.28 | 0.14 | 83.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:38:31 | 51.18 | 50.18 | 1,522 | 3.22 | 0.14 | 83.2 |
| 4/21/2015 | 21:38:32 | 51.51 | 50.51 | 1,522 | 3.22 | 0.14 | 83.2 |
| 4/21/2015 | 21:38:32 | 51.84 | 50.84 | 1,546 | 3.26 | 0.14 | 84.5 |
| 4/21/2015 | 21:38:32 | 52.17 | 51.17 | 1,546 | 3.26 | 0.14 | 84.5 |
| 4/21/2015 | 21:38:32 | 52.49 | 51.49 | 1,520 | 3.25 | 0.14 | 83.1 |
| 4/21/2015 | 21:38:33 | 52.82 | 51.82 | 1,520 | 3.25 | 0.14 | 83.1 |
| 4/21/2015 | 21:38:33 | 53.15 | 52.15 | 1,487 | 3.28 | 0.14 | 81.3 |
| 4/21/2015 | 21:38:33 | 53.48 | 52.48 | 1,487 | 3.28 | 0.14 | 81.3 |
| 4/21/2015 | 21:38:34 | 53.81 | 52.81 | 1,464 | 3.33 | 0.15 | 80.1 |
| 4/21/2015 | 21:38:34 | 54.13 | 53.13 | 1,464 | 3.33 | 0.15 | 80.1 |
| 4/21/2015 | 21:38:37 | 54.46 | 53.46 | 56 | 1.79 | 0.14 | 3.1 |
| 4/21/2015 | 21:39:07 | 54.79 | 53.79 | 0 | 1.36 | 0.91 | 0.0 |
| 4/21/2015 | 21:39:13 | 55.12 | 54.12 | 0 | 1.37 | 0.86 | 0.0 |
| 4/21/2015 | 21:39:13 | 55.45 | 54.45 | 70 | 1.45 | 0.94 | 3.8 |
| 4/21/2015 | 21:39:16 | 55.77 | 54.77 | 228 | 1.64 | 1.00 | 12.5 |
| 4/21/2015 | 21:39:21 | 56.01 | 55.01 | 0 | 1.80 | 1.24 | 0.0 |

## E165 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:36:50

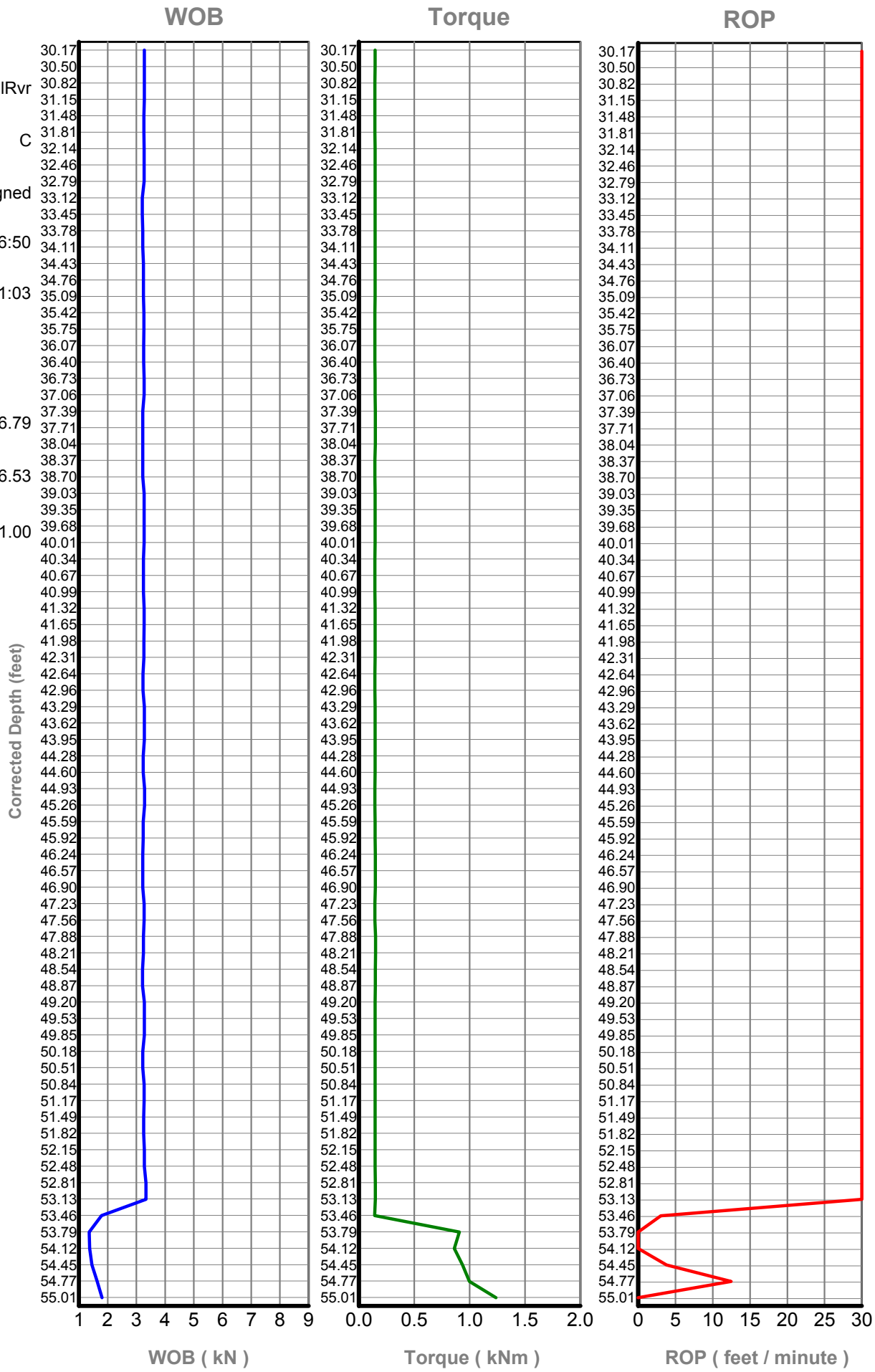
**End Date:**
4/21/2015 21:41:03

**Operator Note:**
'1 1.0 c Auto Complete'

**Northing:**
368,086.79

**Easting:**
253,006.53

**Tide (feet):**
1.00



## Hole: E166 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:31:03 | 31.17 | 30.17 | 1,516 | 3.24 | 0.14 | 82.9 |
| 4/21/2015 21:31:03 | 31.50 | 30.50 | 1,516 | 3.24 | 0.14 | 82.9 |
| 4/21/2015 21:31:03 | 31.82 | 30.82 | 1,525 | 3.26 | 0.14 | 83.4 |
| 4/21/2015 21:31:03 | 32.15 | 31.15 | 1,525 | 3.26 | 0.14 | 83.4 |
| 4/21/2015 21:31:04 | 32.48 | 31.48 | 1,548 | 3.25 | 0.14 | 84.7 |
| 4/21/2015 21:31:04 | 32.81 | 31.81 | 1,548 | 3.25 | 0.14 | 84.7 |
| 4/21/2015 21:31:04 | 33.14 | 32.14 | 1,533 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:05 | 33.46 | 32.46 | 1,533 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:05 | 33.79 | 32.79 | 1,533 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:05 | 34.12 | 33.12 | 1,524 | 3.22 | 0.14 | 83.3 |
| 4/21/2015 21:31:05 | 34.45 | 33.45 | 1,524 | 3.22 | 0.14 | 83.3 |
| 4/21/2015 21:31:05 | 34.78 | 33.78 | 1,544 | 3.26 | 0.14 | 84.5 |
| 4/21/2015 21:31:06 | 35.11 | 34.11 | 1,544 | 3.26 | 0.14 | 84.5 |
| 4/21/2015 21:31:06 | 35.43 | 34.43 | 1,532 | 3.26 | 0.14 | 83.8 |
| 4/21/2015 21:31:06 | 35.76 | 34.76 | 1,532 | 3.26 | 0.14 | 83.8 |
| 4/21/2015 21:31:06 | 36.09 | 35.09 | 1,532 | 3.25 | 0.14 | 83.8 |
| 4/21/2015 21:31:07 | 36.42 | 35.42 | 1,532 | 3.25 | 0.14 | 83.8 |
| 4/21/2015 21:31:07 | 36.75 | 35.75 | 1,532 | 3.25 | 0.14 | 83.8 |
| 4/21/2015 21:31:07 | 37.07 | 36.07 | 1,532 | 3.25 | 0.14 | 83.8 |
| 4/21/2015 21:31:07 | 37.40 | 36.40 | 1,532 | 3.25 | 0.14 | 83.8 |
| 4/21/2015 21:31:07 | 37.73 | 36.73 | 1,535 | 3.26 | 0.14 | 83.9 |
| 4/21/2015 21:31:08 | 38.06 | 37.06 | 1,535 | 3.26 | 0.14 | 83.9 |
| 4/21/2015 21:31:08 | 38.39 | 37.39 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:08 | 38.71 | 37.71 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:08 | 39.04 | 38.04 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:09 | 39.37 | 38.37 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:09 | 39.70 | 38.70 | 1,523 | 3.20 | 0.14 | 83.3 |
| 4/21/2015 21:31:09 | 40.03 | 39.03 | 1,523 | 3.20 | 0.14 | 83.3 |
| 4/21/2015 21:31:10 | 40.35 | 39.35 | 1,523 | 3.20 | 0.14 | 83.3 |
| 4/21/2015 21:31:10 | 40.68 | 39.68 | 1,538 | 3.27 | 0.14 | 84.1 |
| 4/21/2015 21:31:10 | 41.01 | 40.01 | 1,538 | 3.27 | 0.14 | 84.1 |
| 4/21/2015 21:31:10 | 41.34 | 40.34 | 1,535 | 3.24 | 0.14 | 83.9 |
| 4/21/2015 21:31:10 | 41.67 | 40.67 | 1,535 | 3.24 | 0.14 | 83.9 |
| 4/21/2015 21:31:11 | 41.99 | 40.99 | 1,535 | 3.25 | 0.14 | 83.9 |
| 4/21/2015 21:31:11 | 42.32 | 41.32 | 1,535 | 3.25 | 0.14 | 83.9 |
| 4/21/2015 21:31:11 | 42.65 | 41.65 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:11 | 42.98 | 41.98 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:12 | 43.31 | 42.31 | 1,532 | 3.24 | 0.14 | 83.8 |
| 4/21/2015 21:31:12 | 43.64 | 42.64 | 1,538 | 3.22 | 0.14 | 84.1 |
| 4/21/2015 21:31:12 | 43.96 | 42.96 | 1,538 | 3.22 | 0.14 | 84.1 |
| 4/21/2015 21:31:12 | 44.29 | 43.29 | 1,529 | 3.22 | 0.14 | 83.6 |
| 4/21/2015 21:31:12 | 44.62 | 43.62 | 1,529 | 3.22 | 0.14 | 83.6 |
| 4/21/2015 21:31:13 | 44.95 | 43.95 | 1,529 | 3.26 | 0.14 | 83.6 |
| 4/21/2015 21:31:13 | 45.28 | 44.28 | 1,529 | 3.26 | 0.14 | 83.6 |
| 4/21/2015 21:31:13 | 45.60 | 44.60 | 1,509 | 3.22 | 0.14 | 82.5 |
| 4/21/2015 21:31:13 | 45.93 | 44.93 | 1,509 | 3.22 | 0.14 | 82.5 |
| 4/21/2015 21:31:14 | 46.26 | 45.26 | 1,509 | 3.22 | 0.14 | 82.5 |
| 4/21/2015 21:31:14 | 46.59 | 45.59 | 1,530 | 3.22 | 0.14 | 83.7 |
| 4/21/2015 21:31:14 | 46.92 | 45.92 | 1,530 | 3.22 | 0.14 | 83.7 |
| 4/21/2015 21:31:14 | 47.24 | 46.24 | 1,527 | 3.22 | 0.14 | 83.5 |
| 4/21/2015 21:31:15 | 47.57 | 46.57 | 1,527 | 3.22 | 0.14 | 83.5 |
| 4/21/2015 21:31:15 | 47.90 | 46.90 | 1,527 | 3.25 | 0.14 | 83.5 |
| 4/21/2015 21:31:15 | 48.23 | 47.23 | 1,527 | 3.25 | 0.14 | 83.5 |
| 4/21/2015 21:31:15 | 48.56 | 47.56 | 1,525 | 3.26 | 0.14 | 83.4 |
| 4/21/2015 21:31:16 | 48.88 | 47.88 | 1,525 | 3.26 | 0.14 | 83.4 |
| 4/21/2015 21:31:16 | 49.21 | 48.21 | 1,548 | 3.23 | 0.14 | 84.7 |
| 4/21/2015 21:31:16 | 49.54 | 48.54 | 1,548 | 3.23 | 0.14 | 84.7 |
| 4/21/2015 21:31:16 | 49.87 | 48.87 | 1,548 | 3.23 | 0.14 | 84.7 |
| 4/21/2015 21:31:16 | 50.20 | 49.20 | 1,529 | 3.22 | 0.14 | 83.6 |
| 4/21/2015 21:31:17 | 50.53 | 49.53 | 1,529 | 3.22 | 0.14 | 83.6 |
| 4/21/2015 21:31:17 | 50.85 | 49.85 | 1,536 | 3.22 | 0.14 | 84.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:31:17 | 51.18 | 50.18 | 1,536 | 3.22 | 0.14 | 84.0 |
| 4/21/2015 | 21:31:17 | 51.51 | 50.51 | 1,518 | 3.22 | 0.14 | 83.0 |
| 4/21/2015 | 21:31:18 | 51.84 | 50.84 | 1,518 | 3.22 | 0.14 | 83.0 |
| 4/21/2015 | 21:31:18 | 52.17 | 51.17 | 1,527 | 3.25 | 0.14 | 83.5 |
| 4/21/2015 | 21:31:18 | 52.49 | 51.49 | 1,527 | 3.25 | 0.14 | 83.5 |
| 4/21/2015 | 21:31:19 | 52.82 | 51.82 | 1,495 | 3.31 | 0.14 | 81.7 |
| 4/21/2015 | 21:31:19 | 53.15 | 52.15 | 1,495 | 3.31 | 0.14 | 81.7 |
| 4/21/2015 | 21:31:19 | 53.48 | 52.48 | 1,460 | 3.26 | 0.14 | 79.9 |
| 4/21/2015 | 21:31:20 | 53.81 | 52.81 | 1,460 | 3.26 | 0.14 | 79.9 |
| 4/21/2015 | 21:31:43 | 54.13 | 53.13 | 0 | 3.04 | 1.31 | 0.0 |
| 4/21/2015 | 21:31:54 | 54.46 | 53.46 | 58 | 1.94 | 1.13 | 3.2 |
| 4/21/2015 | 21:32:01 | 54.79 | 53.79 | 43 | 1.93 | 1.22 | 2.4 |
| 4/21/2015 | 21:32:11 | 55.12 | 54.12 | 40 | 1.98 | 1.16 | 2.2 |
| 4/21/2015 | 21:32:15 | 55.45 | 54.45 | 99 | 1.82 | 1.19 | 5.4 |
| 4/21/2015 | 21:33:01 | 55.77 | 54.77 | 52 | 1.81 | 1.13 | 2.8 |
| 4/21/2015 | 21:33:02 | 56.10 | 55.10 | 148 | 1.75 | 1.07 | 8.1 |
| 4/21/2015 | 21:33:03 | 56.22 | 55.22 | 184 | 2.01 | 1.21 | 10.1 |

## E166 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:29:48

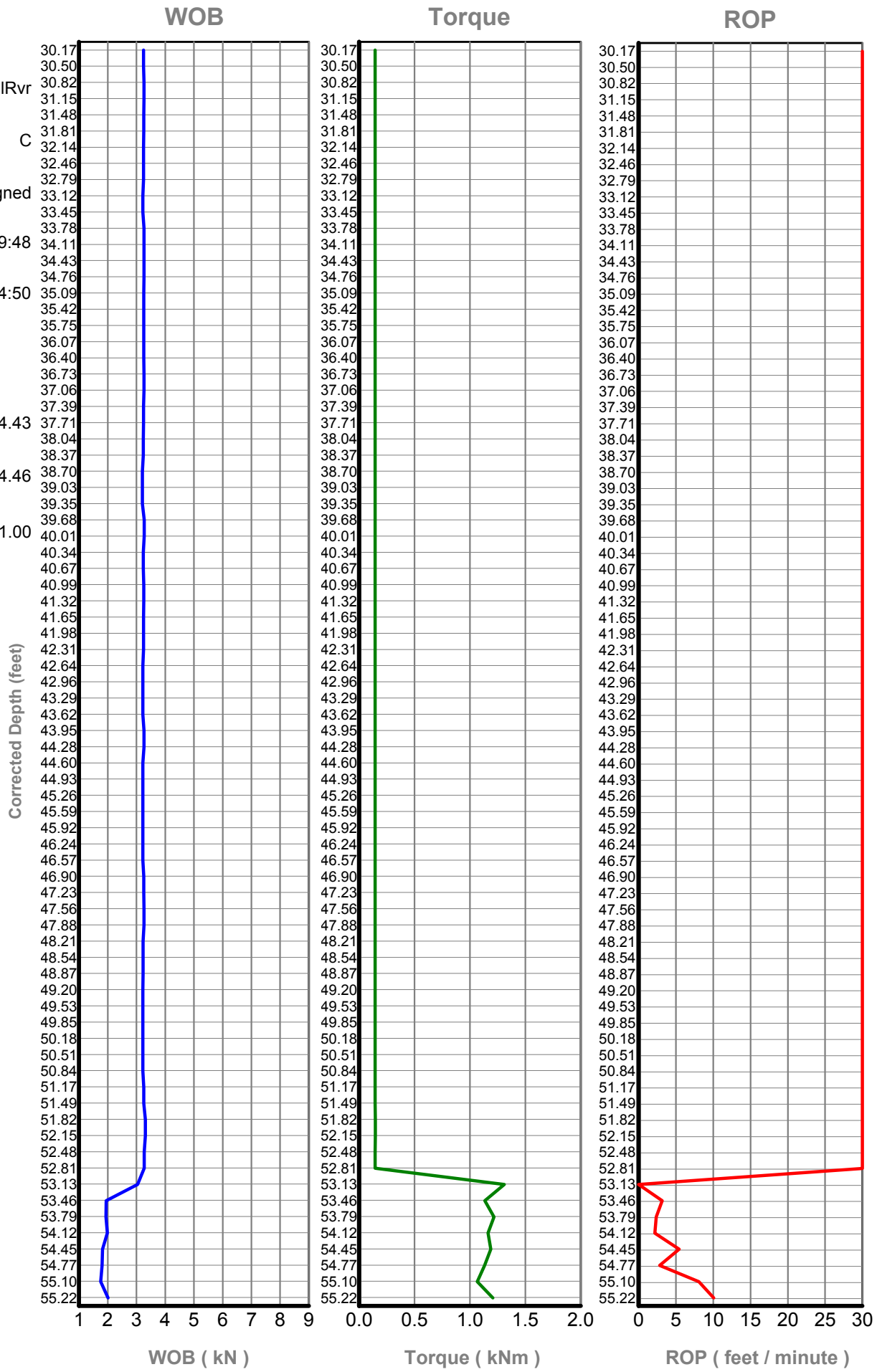
**End Date:**
4/21/2015 21:34:50

**Operator Note:**
'1 1.2 c Auto Complete'

**Northing:**
368,134.43

**Easting:**
253,064.46

**Tide (feet):**
1.00



## Hole: E167 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:26:15 | 31.17 | 30.17 | 959 | 1.73 | 0.21 | 52.4 |
| 4/21/2015 10:26:15 | 31.50 | 30.50 | 959 | 1.73 | 0.21 | 52.4 |
| 4/21/2015 10:26:15 | 31.82 | 30.82 | 979 | 1.73 | 0.21 | 53.5 |
| 4/21/2015 10:26:16 | 32.15 | 31.15 | 970 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 10:26:16 | 32.48 | 31.48 | 970 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 10:26:16 | 32.81 | 31.81 | 976 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 10:26:17 | 33.14 | 32.14 | 967 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 10:26:17 | 33.46 | 32.46 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 10:26:18 | 33.79 | 32.79 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 10:26:18 | 34.12 | 33.12 | 966 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 10:26:18 | 34.45 | 33.45 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 10:26:19 | 34.78 | 33.78 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 10:26:19 | 35.11 | 34.11 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 10:26:19 | 35.43 | 34.43 | 966 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 10:26:20 | 35.76 | 34.76 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:21 | 36.09 | 35.09 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:21 | 36.42 | 35.42 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:21 | 36.75 | 35.75 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:22 | 37.07 | 36.07 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:22 | 37.40 | 36.40 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:22 | 37.73 | 36.73 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 10:26:23 | 38.06 | 37.06 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:23 | 38.39 | 37.39 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:23 | 38.71 | 37.71 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 10:26:24 | 39.04 | 38.04 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 10:26:24 | 39.37 | 38.37 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 10:26:24 | 39.70 | 38.70 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 10:26:25 | 40.03 | 39.03 | 956 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 10:26:25 | 40.35 | 39.35 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 10:26:26 | 40.68 | 39.68 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 10:26:26 | 41.01 | 40.01 | 954 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 10:26:26 | 41.34 | 40.34 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 10:26:27 | 41.67 | 40.67 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 10:26:27 | 41.99 | 40.99 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 10:26:27 | 42.32 | 41.32 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 10:26:28 | 42.65 | 41.65 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 10:26:28 | 42.98 | 41.98 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 10:26:28 | 43.31 | 42.31 | 975 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 10:26:29 | 43.64 | 42.64 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:26:29 | 43.96 | 42.96 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:26:29 | 44.29 | 43.29 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:26:30 | 44.62 | 43.62 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:26:30 | 44.95 | 43.95 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 10:26:30 | 45.28 | 44.28 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 10:26:31 | 45.60 | 44.60 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 10:26:32 | 45.93 | 44.93 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 10:26:32 | 46.26 | 45.26 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 10:26:32 | 46.59 | 45.59 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 10:26:33 | 46.92 | 45.92 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 10:26:33 | 47.24 | 46.24 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:26:33 | 47.57 | 46.57 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:26:34 | 47.90 | 46.90 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:26:34 | 48.23 | 47.23 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 10:26:34 | 48.56 | 47.56 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 10:26:35 | 48.88 | 47.88 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 10:26:35 | 49.21 | 48.21 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 10:26:35 | 49.54 | 48.54 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 10:26:36 | 49.87 | 48.87 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 10:26:36 | 50.20 | 49.20 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 10:26:36 | 50.53 | 49.53 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 10:26:37 | 50.85 | 49.85 | 1,014 | 1.73 | 0.21 | 55.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:26:37 | 51.18 | 50.18 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 | 10:26:37 | 51.51 | 50.51 | 1,034 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 | 10:26:38 | 51.84 | 50.84 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 | 10:26:46 | 52.17 | 51.17 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 10:26:47 | 52.49 | 51.49 | 191 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 | 10:26:48 | 52.82 | 51.82 | 294 | 1.73 | 0.21 | 16.1 |
| 4/21/2015 | 10:26:48 | 53.15 | 52.15 | 426 | 1.73 | 0.21 | 23.3 |
| 4/21/2015 | 10:26:49 | 53.48 | 52.48 | 483 | 1.73 | 0.21 | 26.4 |
| 4/21/2015 | 10:26:49 | 53.81 | 52.81 | 570 | 1.73 | 0.21 | 31.1 |
| 4/21/2015 | 10:26:50 | 54.13 | 53.13 | 638 | 1.73 | 0.21 | 34.9 |
| 4/21/2015 | 10:26:50 | 54.46 | 53.46 | 684 | 1.73 | 0.21 | 37.4 |
| 4/21/2015 | 10:26:51 | 54.79 | 53.79 | 684 | 1.73 | 0.21 | 37.4 |
| 4/21/2015 | 10:26:51 | 55.12 | 54.12 | 704 | 1.73 | 0.21 | 38.5 |
| 4/21/2015 | 10:26:52 | 55.45 | 54.45 | 741 | 1.73 | 0.21 | 40.5 |
| 4/21/2015 | 10:26:52 | 55.77 | 54.77 | 747 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 10:26:53 | 56.10 | 55.10 | 714 | 1.73 | 0.21 | 39.1 |
| 4/21/2015 | 10:26:53 | 56.36 | 55.36 | 681 | 1.73 | 0.21 | 37.2 |

## E167 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:24:37

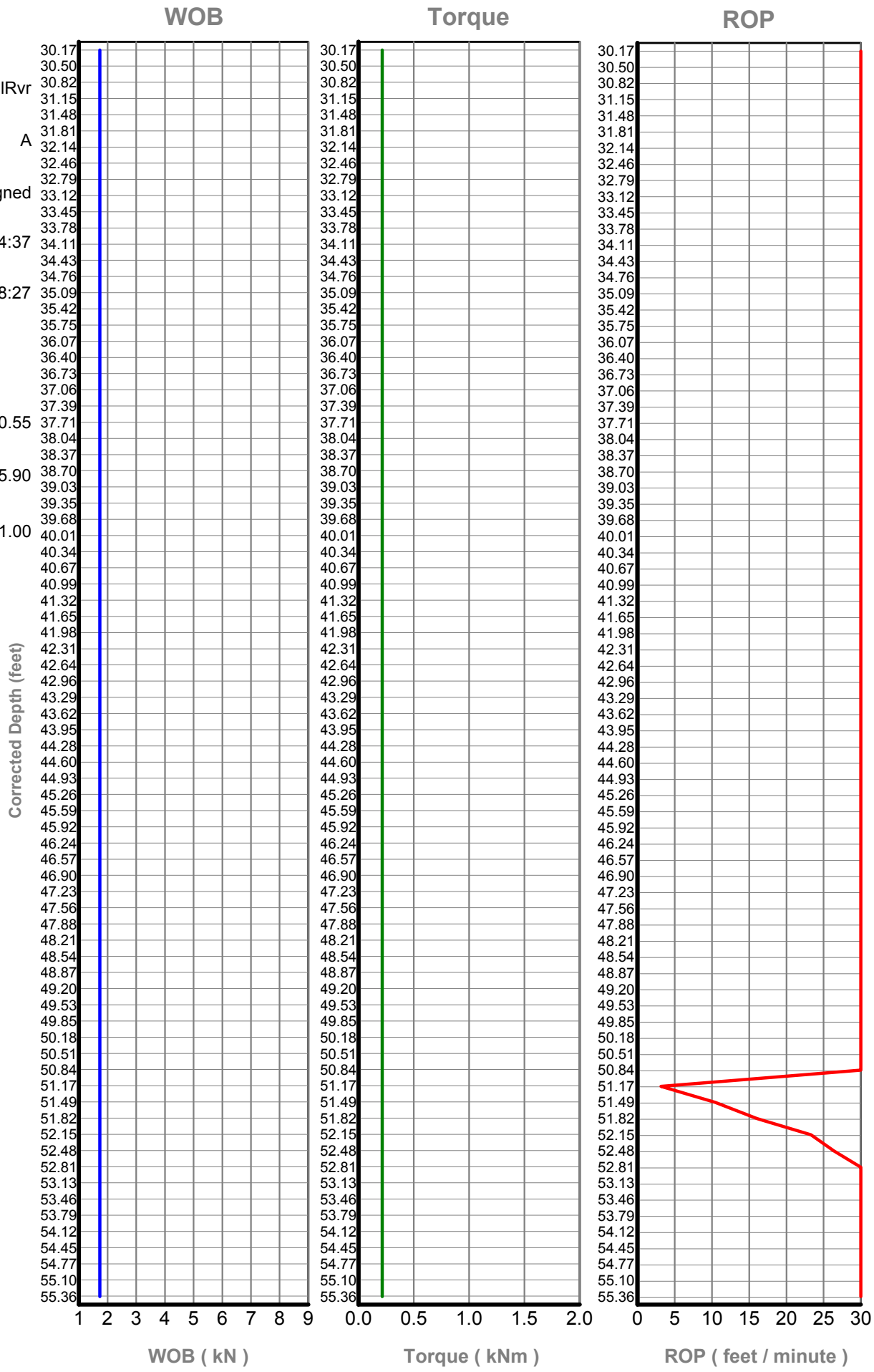
**End Date:**
4/21/2015 10:28:27

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
368,200.55

**Easting:**
253,145.90

**Tide (feet):**
1.00



## Hole: E168 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:30:11 | 31.17 | 30.17 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:30:11 | 31.50 | 30.50 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:12 | 31.82 | 30.82 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:12 | 32.15 | 31.15 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:30:13 | 32.48 | 31.48 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:30:13 | 32.81 | 31.81 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:30:13 | 33.14 | 32.14 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:30:14 | 33.46 | 32.46 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:30:14 | 33.79 | 32.79 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 10:30:14 | 34.12 | 33.12 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:30:15 | 34.45 | 33.45 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:30:15 | 34.78 | 33.78 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 10:30:15 | 35.11 | 34.11 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:30:16 | 35.43 | 34.43 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:16 | 35.76 | 34.76 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:16 | 36.09 | 35.09 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:30:17 | 36.42 | 35.42 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:17 | 36.75 | 35.75 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:17 | 37.07 | 36.07 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:30:18 | 37.40 | 36.40 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:30:18 | 37.73 | 36.73 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 10:30:18 | 38.06 | 37.06 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:30:19 | 38.39 | 37.39 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:30:19 | 38.71 | 37.71 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:30:19 | 39.04 | 38.04 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:30:20 | 39.37 | 38.37 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:30:20 | 39.70 | 38.70 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:30:20 | 40.03 | 39.03 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 10:30:21 | 40.35 | 39.35 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:30:21 | 40.68 | 39.68 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:30:21 | 41.01 | 40.01 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:30:22 | 41.34 | 40.34 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:30:22 | 41.67 | 40.67 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:30:22 | 41.99 | 40.99 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:30:23 | 42.32 | 41.32 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:23 | 42.65 | 41.65 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:24 | 42.98 | 41.98 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 10:30:24 | 43.31 | 42.31 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 10:30:24 | 43.64 | 42.64 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:25 | 43.96 | 42.96 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:25 | 44.29 | 43.29 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:25 | 44.62 | 43.62 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:30:26 | 44.95 | 43.95 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:26 | 45.28 | 44.28 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 10:30:26 | 45.60 | 44.60 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:30:27 | 45.93 | 44.93 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:30:27 | 46.26 | 45.26 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 10:30:27 | 46.59 | 45.59 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 10:30:28 | 46.92 | 45.92 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:30:28 | 47.24 | 46.24 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:30:28 | 47.57 | 46.57 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 10:30:29 | 47.90 | 46.90 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:30:29 | 48.23 | 47.23 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 10:30:29 | 48.56 | 47.56 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:30 | 48.88 | 47.88 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:30 | 49.21 | 48.21 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 10:30:30 | 49.54 | 48.54 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 10:30:31 | 49.87 | 48.87 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:30:31 | 50.20 | 49.20 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:30:31 | 50.53 | 49.53 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 10:30:32 | 50.85 | 49.85 | 1,009 | 1.73 | 0.21 | 55.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:30:32 | 51.18 | 50.18 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 | 10:30:33 | 51.51 | 50.51 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 | 10:30:33 | 51.84 | 50.84 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 | 10:30:33 | 52.17 | 51.17 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 | 10:30:34 | 52.49 | 51.49 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 | 10:30:34 | 52.82 | 51.82 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 | 10:30:49 | 53.15 | 52.15 | 59 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 10:30:49 | 53.48 | 52.48 | 235 | 1.73 | 0.21 | 12.9 |
| 4/21/2015 | 10:30:50 | 53.81 | 52.81 | 235 | 1.73 | 0.21 | 12.9 |
| 4/21/2015 | 10:30:50 | 54.13 | 53.13 | 404 | 1.73 | 0.21 | 22.1 |
| 4/21/2015 | 10:30:50 | 54.46 | 53.46 | 577 | 1.73 | 0.21 | 31.6 |
| 4/21/2015 | 10:30:51 | 54.79 | 53.79 | 730 | 1.73 | 0.21 | 39.9 |
| 4/21/2015 | 10:30:51 | 55.12 | 54.12 | 730 | 1.73 | 0.21 | 39.9 |
| 4/21/2015 | 10:30:52 | 55.45 | 54.45 | 730 | 1.73 | 0.21 | 39.9 |
| 4/21/2015 | 10:30:52 | 55.77 | 54.77 | 847 | 1.73 | 0.21 | 46.3 |
| 4/21/2015 | 10:30:55 | 56.10 | 55.10 | 100 | 1.73 | 0.21 | 5.5 |
| 4/21/2015 | 10:30:55 | 56.38 | 55.38 | 56 | 1.73 | 0.21 | 3.1 |

## E168 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:29:03

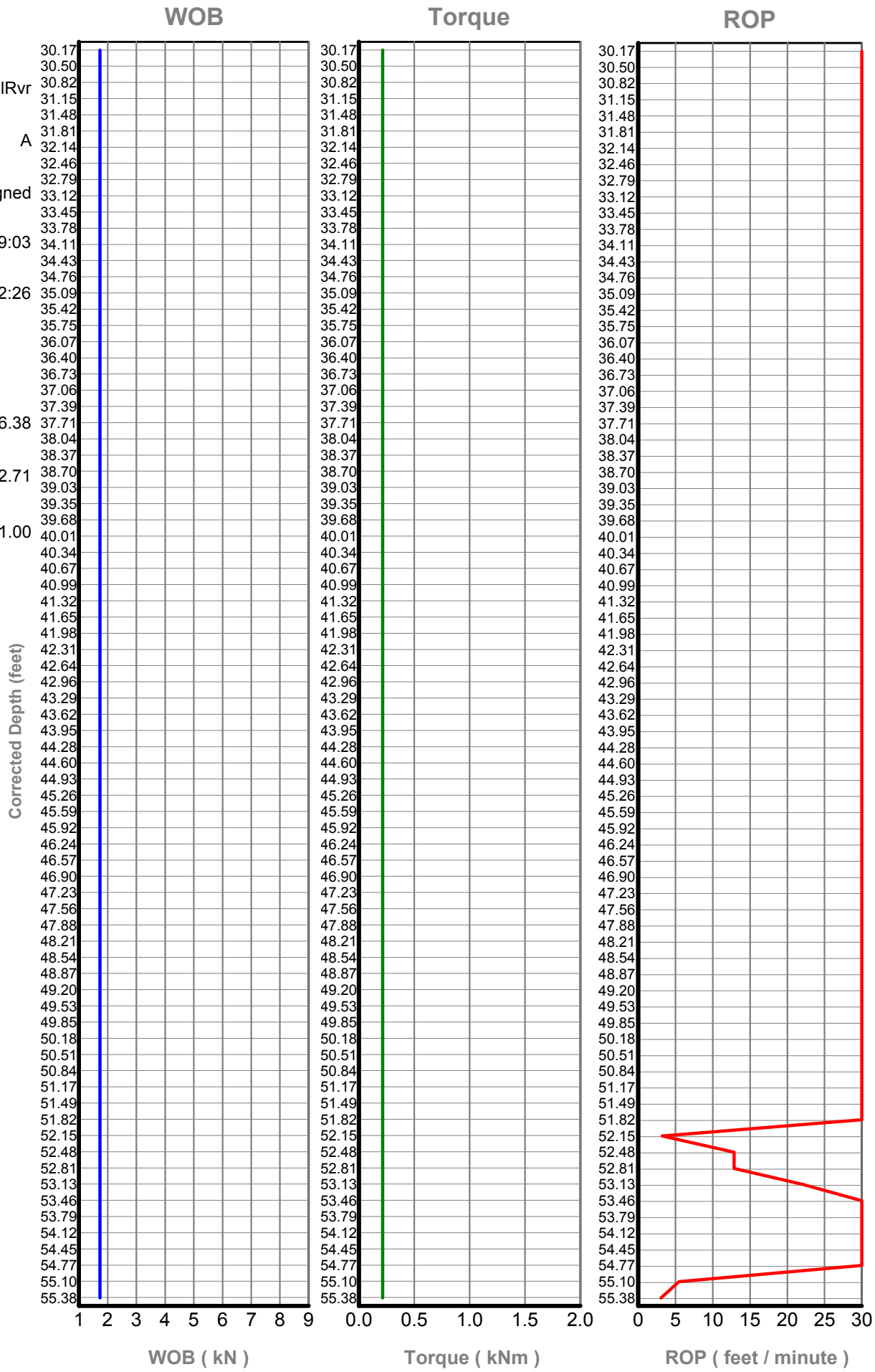
**End Date:**
4/21/2015 10:32:26

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
368,236.38

**Easting:**
253,192.71

**Tide (feet):**
1.00



## Hole: E169 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 10:34:22 | 31.17 | 30.27 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:22 | 31.50 | 30.60 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:23 | 31.82 | 30.92 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:23 | 32.15 | 31.25 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:24 | 32.48 | 31.58 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:24 | 32.81 | 31.91 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:24 | 33.14 | 32.24 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:25 | 33.46 | 32.56 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:25 | 33.79 | 32.89 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:25 | 34.12 | 33.22 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:26 | 34.45 | 33.55 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:26 | 34.78 | 33.88 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:26 | 35.11 | 34.21 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:27 | 35.43 | 34.53 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 10:34:27 | 35.76 | 34.86 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 10:34:27 | 36.09 | 35.19 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:28 | 36.42 | 35.52 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 10:34:28 | 36.75 | 35.85 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 10:34:28 | 37.07 | 36.17 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 10:34:29 | 37.40 | 36.50 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:29 | 37.73 | 36.83 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:29 | 38.06 | 37.16 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 10:34:30 | 38.39 | 37.49 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:30 | 38.71 | 37.81 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 10:34:30 | 39.04 | 38.14 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:34:31 | 39.37 | 38.47 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:34:31 | 39.70 | 38.80 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:34:32 | 40.03 | 39.13 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 10:34:32 | 40.35 | 39.45 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 10:34:32 | 40.68 | 39.78 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 10:34:32 | 41.01 | 40.11 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 10:34:33 | 41.34 | 40.44 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 10:34:33 | 41.67 | 40.77 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 10:34:33 | 41.99 | 41.09 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 10:34:34 | 42.32 | 41.42 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 10:34:35 | 42.65 | 41.75 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 10:34:35 | 42.98 | 42.08 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:35 | 43.31 | 42.41 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:36 | 43.64 | 42.74 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:36 | 43.96 | 43.06 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 10:34:36 | 44.29 | 43.39 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:37 | 44.62 | 43.72 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:37 | 44.95 | 44.05 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:37 | 45.28 | 44.38 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:38 | 45.60 | 44.70 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:38 | 45.93 | 45.03 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:38 | 46.26 | 45.36 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:39 | 46.59 | 45.69 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 10:34:39 | 46.92 | 46.02 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 10:34:39 | 47.24 | 46.34 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:40 | 47.57 | 46.67 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 10:34:47 | 47.90 | 47.00 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 10:34:47 | 48.23 | 47.33 | 161 | 1.73 | 0.21 | 8.8 |
| 4/21/2015 10:34:50 | 48.56 | 47.66 | 117 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 10:34:50 | 48.88 | 47.98 | 117 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 10:34:51 | 49.21 | 48.31 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 10:34:52 | 49.54 | 48.64 | 306 | 1.73 | 0.21 | 16.7 |
| 4/21/2015 10:34:53 | 49.87 | 48.97 | 500 | 1.73 | 0.21 | 27.4 |
| 4/21/2015 10:35:02 | 50.20 | 49.30 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 10:35:04 | 50.53 | 49.63 | 143 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 10:35:07 | 50.85 | 49.95 | 99 | 1.73 | 0.21 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 10:35:10 | 51.18 | 50.28 | 145 | 1.73 | 0.21 | 7.9 |
| 4/21/2015 | 10:35:13 | 51.51 | 50.61 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 10:35:18 | 51.84 | 50.94 | 81 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 10:35:23 | 52.17 | 51.27 | 74 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 10:35:27 | 52.49 | 51.59 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 10:35:32 | 52.82 | 51.92 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 10:35:36 | 53.15 | 52.25 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 10:35:41 | 53.48 | 52.58 | 76 | 1.73 | 0.21 | 4.2 |
| 4/21/2015 | 10:35:46 | 53.81 | 52.91 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 10:35:50 | 54.13 | 53.23 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 10:35:55 | 54.46 | 53.56 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 10:35:59 | 54.79 | 53.89 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 10:36:03 | 55.12 | 54.22 | 87 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 10:36:08 | 55.45 | 54.55 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 10:36:13 | 55.77 | 54.87 | 82 | 1.73 | 0.21 | 4.5 |
| 4/21/2015 | 10:36:15 | 56.02 | 55.12 | 87 | 1.73 | 0.21 | 4.7 |

## E169 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 10:33:08

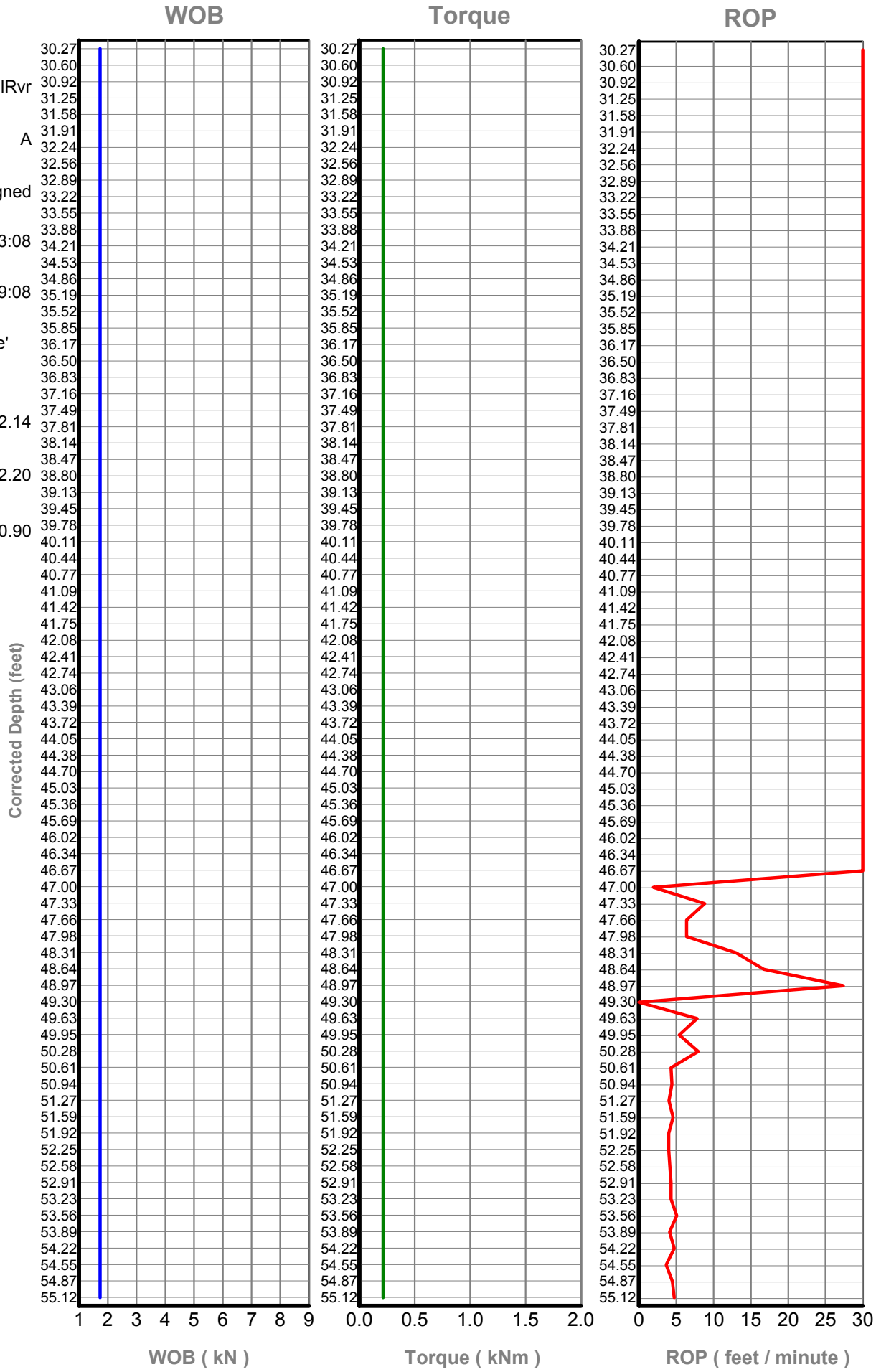
**End Date:**
4/21/2015 10:39:08

**Operator Note:**
'0.9 1.0 b Auto Complete'

**Northing:**
368,282.14

**Easting:**
253,252.20

**Tide (feet):**
0.90



## Hole: E17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 15:45:06 | 36.75 | 30.25 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:07 | 37.07 | 30.57 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:07 | 37.40 | 30.90 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:07 | 37.73 | 31.23 | 1,113 | 0.26 | 0.30 | 60.9 |
| 4/20/2015 15:45:08 | 38.06 | 31.56 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:08 | 38.39 | 31.89 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:08 | 38.71 | 32.21 | 1,109 | 0.26 | 0.31 | 60.7 |
| 4/20/2015 15:45:09 | 39.04 | 32.54 | 1,109 | 0.26 | 0.31 | 60.7 |
| 4/20/2015 15:45:09 | 39.37 | 32.87 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:09 | 39.70 | 33.20 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:10 | 40.03 | 33.53 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:10 | 40.35 | 33.85 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/20/2015 15:45:11 | 40.68 | 34.18 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/20/2015 15:45:10 | 41.01 | 34.51 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/20/2015 15:45:11 | 41.34 | 34.84 | 1,119 | 0.26 | 0.32 | 61.2 |
| 4/20/2015 15:45:12 | 41.67 | 35.17 | 1,119 | 0.26 | 0.32 | 61.2 |
| 4/20/2015 15:45:12 | 41.99 | 35.49 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 15:45:12 | 42.32 | 35.82 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:13 | 42.65 | 36.15 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 15:45:13 | 42.98 | 36.48 | 1,113 | 0.26 | 0.32 | 60.9 |
| 4/20/2015 15:45:13 | 43.31 | 36.81 | 1,113 | 0.26 | 0.32 | 60.9 |
| 4/20/2015 15:45:13 | 43.64 | 37.14 | 1,110 | 0.26 | 0.32 | 60.7 |
| 4/20/2015 15:45:14 | 43.96 | 37.46 | 1,100 | 0.26 | 0.31 | 60.2 |
| 4/20/2015 15:45:14 | 44.29 | 37.79 | 1,100 | 0.26 | 0.31 | 60.2 |
| 4/20/2015 15:45:14 | 44.62 | 38.12 | 1,088 | 0.26 | 0.31 | 59.5 |
| 4/20/2015 15:45:15 | 44.95 | 38.45 | 1,088 | 0.26 | 0.31 | 59.5 |
| 4/20/2015 15:45:15 | 45.28 | 38.78 | 1,088 | 0.26 | 0.32 | 59.5 |
| 4/20/2015 15:45:15 | 45.60 | 39.10 | 1,099 | 0.26 | 0.32 | 60.1 |
| 4/20/2015 15:45:16 | 45.93 | 39.43 | 1,099 | 0.26 | 0.32 | 60.1 |
| 4/20/2015 15:45:16 | 46.26 | 39.76 | 1,090 | 0.26 | 0.31 | 59.6 |
| 4/20/2015 15:45:16 | 46.59 | 40.09 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:45:17 | 46.92 | 40.42 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:45:17 | 47.24 | 40.74 | 1,103 | 0.26 | 0.32 | 60.3 |
| 4/20/2015 15:45:17 | 47.57 | 41.07 | 1,103 | 0.26 | 0.32 | 60.3 |
| 4/20/2015 15:45:17 | 47.90 | 41.40 | 1,103 | 0.26 | 0.32 | 60.3 |
| 4/20/2015 15:45:18 | 48.23 | 41.73 | 1,111 | 0.27 | 0.33 | 60.7 |
| 4/20/2015 15:45:18 | 48.56 | 42.06 | 1,053 | 0.24 | 0.40 | 57.6 |
| 4/20/2015 15:45:35 | 48.88 | 42.38 | 80 | 2.57 | 0.36 | 4.4 |
| 4/20/2015 15:45:36 | 49.21 | 42.71 | 217 | 2.49 | 0.36 | 11.9 |
| 4/20/2015 15:45:37 | 49.54 | 43.04 | 362 | 2.63 | 0.40 | 19.8 |
| 4/20/2015 15:45:40 | 49.87 | 43.37 | 116 | 3.41 | 0.41 | 6.3 |
| 4/20/2015 15:45:44 | 50.20 | 43.70 | 113 | 4.22 | 0.38 | 6.2 |
| 4/20/2015 15:45:45 | 50.53 | 44.03 | 165 | 4.81 | 0.38 | 9.0 |
| 4/20/2015 15:45:46 | 50.85 | 44.35 | 264 | 4.30 | 0.39 | 14.4 |
| 4/20/2015 15:45:47 | 51.18 | 44.68 | 304 | 3.13 | 0.37 | 16.6 |
| 4/20/2015 15:45:48 | 51.51 | 45.01 | 303 | 2.74 | 0.37 | 16.6 |
| 4/20/2015 15:45:50 | 51.84 | 45.34 | 201 | 5.40 | 0.40 | 11.0 |
| 4/20/2015 15:46:15 | 52.17 | 45.67 | 18 | 3.79 | 0.39 | 1.0 |
| 4/20/2015 15:46:36 | 52.49 | 45.99 | 52 | 4.21 | 0.39 | 2.8 |
| 4/20/2015 15:46:40 | 52.82 | 46.32 | 78 | 4.42 | 0.40 | 4.3 |
| 4/20/2015 15:46:45 | 53.15 | 46.65 | 79 | 7.68 | 0.40 | 4.3 |
| 4/20/2015 15:46:49 | 53.48 | 46.98 | 70 | 3.45 | 0.41 | 3.8 |
| 4/20/2015 15:46:56 | 53.81 | 47.31 | 63 | 3.67 | 0.40 | 3.4 |
| 4/20/2015 15:47:01 | 54.13 | 47.63 | 61 | 3.96 | 0.39 | 3.3 |
| 4/20/2015 15:47:08 | 54.46 | 47.96 | 49 | 3.48 | 0.41 | 2.7 |
| 4/20/2015 15:47:15 | 54.79 | 48.29 | 44 | 4.08 | 0.41 | 2.4 |
| 4/20/2015 15:47:23 | 55.12 | 48.62 | 42 | 2.97 | 0.40 | 2.3 |
| 4/20/2015 15:47:32 | 55.45 | 48.95 | 40 | 2.99 | 0.40 | 2.2 |
| 4/20/2015 15:47:33 | 55.49 | 48.99 | 43 | 3.44 | 0.40 | 2.4 |

## E17 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 15:43:44

**End Date:**
4/20/2015 15:48:46

**Operator Note:**
'6.5 6.8 b Rock'

**Northing:**
368,920.54

**Easting:**
253,218.92

**Tide (feet):**
6.50



## Hole: E170 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:10:12 | 31.50 | 30.20 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 22:10:12 | 31.82 | 30.52 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:12 | 32.15 | 30.85 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:13 | 32.48 | 31.18 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:13 | 32.81 | 31.51 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:13 | 33.14 | 31.84 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 22:10:14 | 33.46 | 32.16 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 22:10:14 | 33.79 | 32.49 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 22:10:14 | 34.12 | 32.82 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:15 | 34.45 | 33.15 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:15 | 34.78 | 33.48 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:15 | 35.11 | 33.81 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:15 | 35.43 | 34.13 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 22:10:16 | 35.76 | 34.46 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/20/2015 22:10:16 | 36.09 | 34.79 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/20/2015 22:10:16 | 36.42 | 35.12 | 1,069 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 22:10:17 | 36.75 | 35.45 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:18 | 37.07 | 35.77 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:18 | 37.40 | 36.10 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:18 | 37.73 | 36.43 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:19 | 38.06 | 36.76 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:19 | 38.39 | 37.09 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:19 | 38.71 | 37.41 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:20 | 39.04 | 37.74 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:20 | 39.37 | 38.07 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:20 | 39.70 | 38.40 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:21 | 40.03 | 38.73 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 22:10:21 | 40.35 | 39.05 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:21 | 40.68 | 39.38 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:22 | 41.01 | 39.71 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:22 | 41.34 | 40.04 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:22 | 41.67 | 40.37 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 22:10:23 | 41.99 | 40.69 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 22:10:23 | 42.32 | 41.02 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:23 | 42.65 | 41.35 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:24 | 42.98 | 41.68 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:24 | 43.31 | 42.01 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 22:10:24 | 43.64 | 42.34 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:25 | 43.96 | 42.66 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:25 | 44.29 | 42.99 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:10:25 | 44.62 | 43.32 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:10:25 | 44.95 | 43.65 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:26 | 45.28 | 43.98 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:26 | 45.60 | 44.30 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:26 | 45.93 | 44.63 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:27 | 46.26 | 44.96 | 1,052 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:27 | 46.59 | 45.29 | 1,052 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 22:10:27 | 46.92 | 45.62 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 22:10:44 | 47.24 | 45.94 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 22:10:45 | 47.57 | 46.27 | 116 | 1.73 | 0.21 | 6.3 |
| 4/20/2015 22:10:47 | 47.90 | 46.60 | 194 | 1.73 | 0.21 | 10.6 |
| 4/20/2015 22:10:49 | 48.23 | 46.93 | 171 | 1.73 | 0.21 | 9.4 |
| 4/20/2015 22:11:25 | 48.56 | 47.26 | 7 | 1.73 | 0.21 | 0.4 |
| 4/20/2015 22:11:30 | 48.88 | 47.58 | 65 | 1.73 | 0.21 | 3.6 |
| 4/20/2015 22:11:35 | 49.21 | 47.91 | 59 | 1.73 | 0.21 | 3.2 |
| 4/20/2015 22:11:41 | 49.54 | 48.24 | 59 | 1.73 | 0.21 | 3.2 |
| 4/20/2015 22:11:47 | 49.87 | 48.57 | 67 | 1.73 | 0.21 | 3.6 |
| 4/20/2015 22:11:52 | 50.12 | 48.82 | 58 | 1.73 | 0.21 | 3.2 |

## E170 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:05:21

**End Date:**
4/20/2015 22:13:03

**Operator Note:**
'1.3 1.3 b Auto Complete'

**Northing:**
368,330.89

**Easting:**
253,325.48

**Tide (feet):**
1.30



## Hole: E171 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:26:36 | 31.82 | 30.02 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 22:26:36 | 32.15 | 30.35 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:36 | 32.48 | 30.68 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:37 | 32.81 | 31.01 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:37 | 33.14 | 31.34 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:37 | 33.46 | 31.66 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:38 | 33.79 | 31.99 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:38 | 34.12 | 32.32 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:26:38 | 34.45 | 32.65 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 22:26:38 | 34.78 | 32.98 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:39 | 35.11 | 33.31 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 22:26:39 | 35.43 | 33.63 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 22:26:40 | 35.76 | 33.96 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:40 | 36.09 | 34.29 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:41 | 36.42 | 34.62 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:41 | 36.75 | 34.95 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 22:26:41 | 37.07 | 35.27 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:42 | 37.40 | 35.60 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:42 | 37.73 | 35.93 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:42 | 38.06 | 36.26 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 22:26:43 | 38.39 | 36.59 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 22:26:43 | 38.71 | 36.91 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:43 | 39.04 | 37.24 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:44 | 39.37 | 37.57 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:44 | 39.70 | 37.90 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:44 | 40.03 | 38.23 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:45 | 40.35 | 38.55 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:45 | 40.68 | 38.88 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:45 | 41.01 | 39.21 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 22:26:46 | 41.34 | 39.54 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 22:26:46 | 41.67 | 39.87 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:46 | 41.99 | 40.19 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:47 | 42.32 | 40.52 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:26:47 | 42.65 | 40.85 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 22:26:47 | 42.98 | 41.18 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:48 | 43.31 | 41.51 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:48 | 43.64 | 41.84 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:48 | 43.96 | 42.16 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:49 | 44.29 | 42.49 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 22:26:49 | 44.62 | 42.82 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 22:26:49 | 44.95 | 43.15 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 22:27:47 | 45.28 | 43.48 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 22:28:11 | 45.60 | 43.80 | 69 | 1.73 | 0.21 | 3.8 |
| 4/20/2015 22:28:16 | 45.93 | 44.13 | 103 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 22:28:25 | 46.26 | 44.46 | 41 | 1.73 | 0.21 | 2.2 |
| 4/20/2015 22:28:31 | 46.59 | 44.79 | 51 | 1.73 | 0.21 | 2.8 |
| 4/20/2015 22:28:36 | 46.92 | 45.12 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 22:28:42 | 47.24 | 45.44 | 79 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 22:28:45 | 47.57 | 45.77 | 90 | 1.73 | 0.21 | 4.9 |
| 4/20/2015 22:28:51 | 47.90 | 46.10 | 67 | 1.73 | 0.21 | 3.7 |
| 4/20/2015 22:28:57 | 48.23 | 46.43 | 58 | 1.73 | 0.21 | 3.2 |
| 4/20/2015 22:29:03 | 48.56 | 46.76 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 22:29:06 | 48.80 | 47.00 | 61 | 1.73 | 0.21 | 3.3 |

## E171 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:16:48

**End Date:**
4/20/2015 22:30:46

**Operator Note:**
'1.8 1.2 b Auto Complete 1.8 b'

**Northing:**
368,368.64

**Easting:**
253,371.81

**Tide (feet):**
1.80



## Hole: E172 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 22:08:31 | 31.50 | 30.20 | 370 | 1.43 | 0.13 | 20.2 |
| 4/20/2015 22:08:32 | 31.82 | 30.52 | 367 | 1.43 | 0.13 | 20.1 |
| 4/20/2015 22:08:33 | 32.15 | 30.85 | 368 | 1.44 | 0.13 | 20.1 |
| 4/20/2015 22:08:34 | 32.48 | 31.18 | 367 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 22:08:35 | 32.81 | 31.51 | 370 | 1.49 | 0.13 | 20.2 |
| 4/20/2015 22:08:36 | 33.14 | 31.84 | 370 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 22:08:37 | 33.46 | 32.16 | 367 | 1.49 | 0.13 | 20.1 |
| 4/20/2015 22:08:38 | 33.79 | 32.49 | 367 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 22:08:39 | 34.12 | 32.82 | 367 | 1.50 | 0.13 | 20.1 |
| 4/20/2015 22:08:40 | 34.45 | 33.15 | 370 | 1.43 | 0.13 | 20.3 |
| 4/20/2015 22:08:41 | 34.78 | 33.48 | 370 | 1.47 | 0.13 | 20.3 |
| 4/20/2015 22:08:42 | 35.11 | 33.81 | 366 | 1.46 | 0.13 | 20.0 |
| 4/20/2015 22:08:43 | 35.43 | 34.13 | 364 | 1.49 | 0.13 | 19.9 |
| 4/20/2015 22:08:44 | 35.76 | 34.46 | 365 | 1.49 | 0.13 | 20.0 |
| 4/20/2015 22:08:45 | 36.09 | 34.79 | 366 | 1.49 | 0.13 | 20.0 |
| 4/20/2015 22:08:46 | 36.42 | 35.12 | 365 | 1.40 | 0.13 | 20.0 |
| 4/20/2015 22:08:47 | 36.75 | 35.45 | 367 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 22:08:48 | 37.07 | 35.77 | 360 | 1.45 | 0.13 | 19.7 |
| 4/20/2015 22:08:49 | 37.40 | 36.10 | 364 | 1.46 | 0.13 | 19.9 |
| 4/20/2015 22:08:50 | 37.73 | 36.43 | 364 | 1.45 | 0.13 | 19.9 |
| 4/20/2015 22:08:51 | 38.06 | 36.76 | 373 | 1.46 | 0.13 | 20.4 |
| 4/20/2015 22:08:52 | 38.39 | 37.09 | 372 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 22:08:53 | 38.71 | 37.41 | 372 | 1.40 | 0.13 | 20.4 |
| 4/20/2015 22:08:54 | 39.04 | 37.74 | 365 | 1.49 | 0.13 | 20.0 |
| 4/20/2015 22:08:55 | 39.37 | 38.07 | 370 | 1.47 | 0.13 | 20.3 |
| 4/20/2015 22:08:56 | 39.70 | 38.40 | 367 | 1.40 | 0.13 | 20.1 |
| 4/20/2015 22:08:57 | 40.03 | 38.73 | 372 | 1.48 | 0.13 | 20.4 |
| 4/20/2015 22:08:58 | 40.35 | 39.05 | 369 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 22:08:59 | 40.68 | 39.38 | 366 | 1.49 | 0.13 | 20.0 |
| 4/20/2015 22:09:00 | 41.01 | 39.71 | 359 | 1.43 | 0.13 | 19.6 |
| 4/20/2015 22:09:01 | 41.34 | 40.04 | 362 | 1.46 | 0.13 | 19.8 |
| 4/20/2015 22:09:02 | 41.67 | 40.37 | 363 | 1.49 | 0.13 | 19.8 |
| 4/20/2015 22:09:03 | 41.99 | 40.69 | 374 | 1.44 | 0.13 | 20.4 |
| 4/20/2015 22:09:04 | 42.32 | 41.02 | 368 | 1.49 | 0.13 | 20.1 |
| 4/20/2015 22:09:05 | 42.65 | 41.35 | 367 | 1.45 | 0.13 | 20.0 |
| 4/20/2015 22:09:06 | 42.98 | 41.68 | 357 | 1.45 | 0.13 | 19.5 |
| 4/20/2015 22:09:06 | 43.31 | 42.01 | 364 | 1.49 | 0.13 | 19.9 |
| 4/20/2015 22:09:07 | 43.64 | 42.34 | 360 | 1.49 | 0.13 | 19.7 |
| 4/20/2015 22:09:09 | 43.96 | 42.66 | 369 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 22:09:10 | 44.29 | 42.99 | 367 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 22:09:11 | 44.62 | 43.32 | 364 | 1.47 | 0.13 | 19.9 |
| 4/20/2015 22:09:12 | 44.95 | 43.65 | 367 | 1.52 | 0.13 | 20.1 |
| 4/20/2015 22:09:13 | 45.28 | 43.98 | 364 | 1.49 | 0.13 | 19.9 |
| 4/20/2015 22:09:14 | 45.60 | 44.30 | 364 | 1.46 | 0.13 | 19.9 |
| 4/20/2015 22:09:14 | 45.93 | 44.63 | 361 | 1.47 | 0.13 | 19.8 |
| 4/20/2015 22:09:15 | 46.26 | 44.96 | 361 | 1.49 | 0.13 | 19.8 |
| 4/20/2015 22:09:51 | 46.59 | 45.29 | 20 | 1.62 | 1.00 | 1.1 |
| 4/20/2015 22:09:59 | 46.92 | 45.62 | 49 | 1.68 | 1.11 | 2.7 |
| 4/20/2015 22:10:05 | 47.24 | 45.94 | 40 | 1.68 | 1.05 | 2.2 |
| 4/20/2015 22:10:09 | 47.57 | 46.27 | 90 | 1.63 | 0.96 | 4.9 |
| 4/20/2015 22:10:10 | 47.62 | 46.32 | 104 | 1.66 | 1.08 | 5.7 |

## E172 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 22:06:04

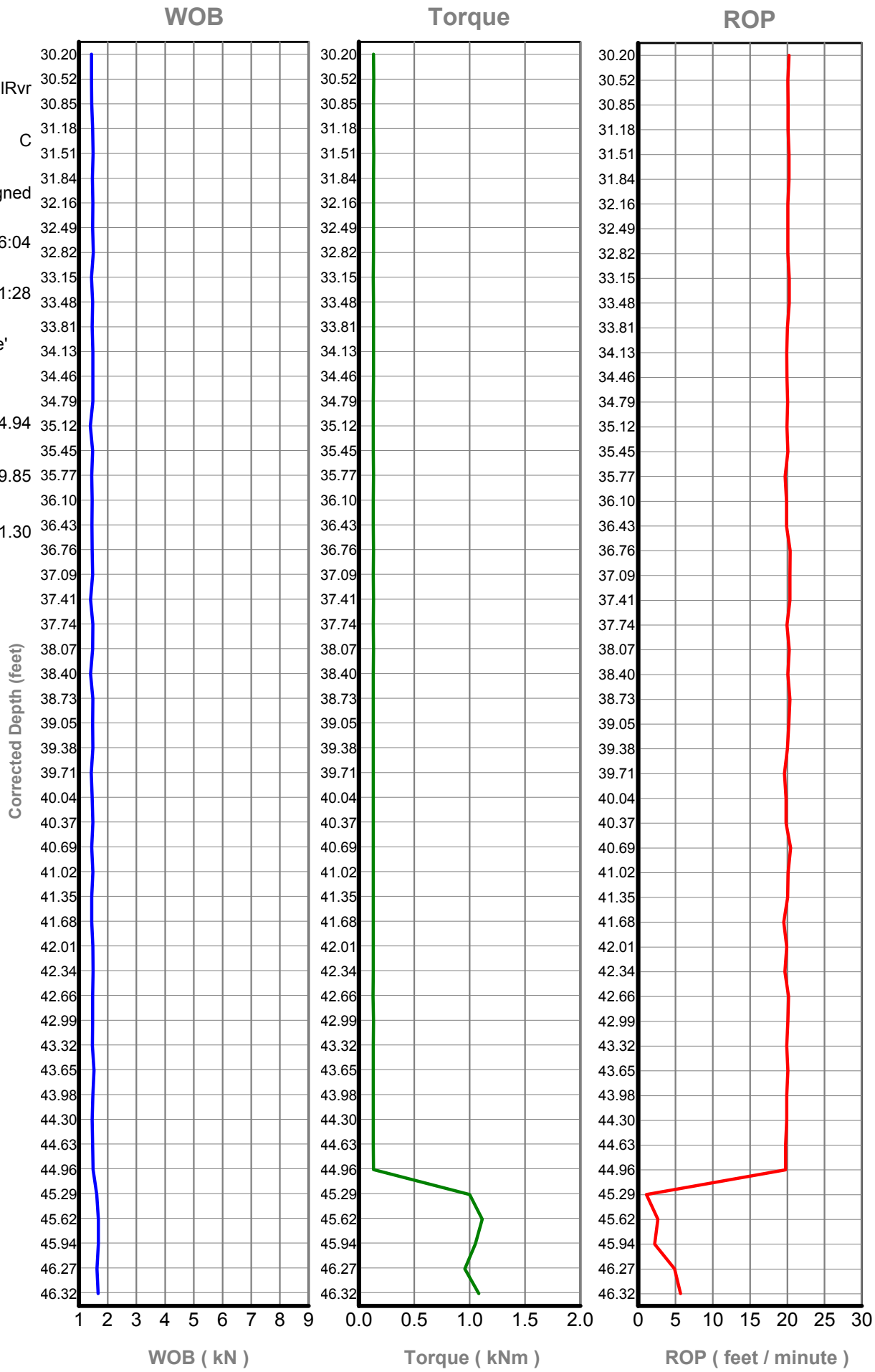
**End Date:**
4/20/2015 22:11:28

**Operator Note:**
'1.3 1.3 c Auto Complete'

**Northing:**
368,414.94

**Easting:**
253,429.85

**Tide (feet):**
1.30



## Hole: E173 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:01:40 | 34.45 | 30.25 | 1,078 | 0.28 | 0.32 | 59.0 |
| 4/20/2015 18:01:40 | 34.78 | 30.58 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 18:01:41 | 35.11 | 30.91 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 18:01:41 | 35.43 | 31.23 | 1,066 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 18:01:41 | 35.76 | 31.56 | 1,066 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 18:01:42 | 36.09 | 31.89 | 1,066 | 0.28 | 0.32 | 58.3 |
| 4/20/2015 18:01:42 | 36.42 | 32.22 | 1,052 | 0.28 | 0.32 | 57.5 |
| 4/20/2015 18:01:42 | 36.75 | 32.55 | 1,052 | 0.28 | 0.31 | 57.5 |
| 4/20/2015 18:01:43 | 37.07 | 32.87 | 1,052 | 0.28 | 0.31 | 57.5 |
| 4/20/2015 18:01:43 | 37.40 | 33.20 | 1,071 | 0.28 | 0.31 | 58.6 |
| 4/20/2015 18:01:43 | 37.73 | 33.53 | 1,067 | 0.28 | 0.31 | 58.4 |
| 4/20/2015 18:01:44 | 38.06 | 33.86 | 1,067 | 0.28 | 0.31 | 58.4 |
| 4/20/2015 18:01:44 | 38.39 | 34.19 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 18:01:44 | 38.71 | 34.51 | 1,074 | 0.28 | 0.31 | 58.7 |
| 4/20/2015 18:01:44 | 39.04 | 34.84 | 1,080 | 0.26 | 0.31 | 59.1 |
| 4/20/2015 18:01:45 | 39.37 | 35.17 | 1,091 | 0.35 | 0.32 | 59.7 |
| 4/20/2015 18:01:45 | 39.70 | 35.50 | 1,091 | 0.35 | 0.32 | 59.7 |
| 4/20/2015 18:01:45 | 40.03 | 35.83 | 1,061 | 0.37 | 0.32 | 58.0 |
| 4/20/2015 18:01:46 | 40.35 | 36.15 | 1,047 | 0.37 | 0.32 | 57.2 |
| 4/20/2015 18:01:47 | 40.68 | 36.48 | 1,047 | 0.37 | 0.32 | 57.2 |
| 4/20/2015 18:01:46 | 41.01 | 36.81 | 1,032 | 0.37 | 0.32 | 56.4 |
| 4/20/2015 18:01:47 | 41.34 | 37.14 | 1,035 | 0.37 | 0.31 | 56.6 |
| 4/20/2015 18:01:48 | 41.67 | 37.47 | 1,035 | 0.37 | 0.31 | 56.6 |
| 4/20/2015 18:01:48 | 41.99 | 37.79 | 1,026 | 0.36 | 0.32 | 56.1 |
| 4/20/2015 18:01:48 | 42.32 | 38.12 | 1,023 | 0.36 | 0.32 | 56.0 |
| 4/20/2015 18:01:49 | 42.65 | 38.45 | 1,023 | 0.36 | 0.32 | 56.0 |
| 4/20/2015 18:01:49 | 42.98 | 38.78 | 1,026 | 0.37 | 0.32 | 56.1 |
| 4/20/2015 18:01:49 | 43.31 | 39.11 | 1,033 | 0.36 | 0.33 | 56.5 |
| 4/20/2015 18:01:50 | 43.64 | 39.44 | 1,033 | 0.36 | 0.33 | 56.5 |
| 4/20/2015 18:01:50 | 43.96 | 39.76 | 1,023 | 0.37 | 0.32 | 56.0 |
| 4/20/2015 18:01:50 | 44.29 | 40.09 | 1,017 | 0.36 | 0.32 | 55.6 |
| 4/20/2015 18:01:51 | 44.62 | 40.42 | 1,015 | 0.36 | 0.32 | 55.5 |
| 4/20/2015 18:01:51 | 44.95 | 40.75 | 1,015 | 0.36 | 0.32 | 55.5 |
| 4/20/2015 18:01:51 | 45.28 | 41.08 | 1,015 | 0.36 | 0.31 | 55.5 |
| 4/20/2015 18:01:52 | 45.60 | 41.40 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/20/2015 18:01:52 | 45.93 | 41.73 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/20/2015 18:01:52 | 46.26 | 42.06 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/20/2015 18:01:53 | 46.59 | 42.39 | 1,008 | 0.27 | 0.32 | 55.1 |
| 4/20/2015 18:01:53 | 46.92 | 42.72 | 1,008 | 0.27 | 0.32 | 55.1 |
| 4/20/2015 18:01:53 | 47.24 | 43.04 | 1,020 | 0.35 | 0.32 | 55.8 |
| 4/20/2015 18:01:54 | 47.57 | 43.37 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/20/2015 18:01:54 | 47.90 | 43.70 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/20/2015 18:01:54 | 48.23 | 44.03 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/20/2015 18:01:55 | 48.56 | 44.36 | 1,012 | 0.29 | 0.32 | 55.4 |
| 4/20/2015 18:01:55 | 48.88 | 44.68 | 1,012 | 0.29 | 0.32 | 55.4 |
| 4/20/2015 18:01:55 | 49.21 | 45.01 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/20/2015 18:01:56 | 49.54 | 45.34 | 1,024 | 0.27 | 0.31 | 56.0 |
| 4/20/2015 18:01:56 | 49.87 | 45.67 | 1,024 | 0.27 | 0.31 | 56.0 |
| 4/20/2015 18:01:56 | 50.20 | 46.00 | 1,038 | 0.27 | 0.32 | 56.8 |
| 4/20/2015 18:01:57 | 50.53 | 46.33 | 1,034 | 0.27 | 0.32 | 56.6 |
| 4/20/2015 18:01:58 | 50.85 | 46.65 | 1,034 | 0.27 | 0.32 | 56.6 |
| 4/20/2015 18:01:58 | 51.18 | 46.98 | 1,052 | 0.27 | 0.34 | 57.5 |
| 4/20/2015 18:02:08 | 51.51 | 47.31 | 9 | 2.89 | 0.35 | 0.5 |
| 4/20/2015 18:02:09 | 51.84 | 47.64 | 159 | 2.11 | 0.33 | 8.7 |
| 4/20/2015 18:02:09 | 52.17 | 47.97 | 159 | 2.11 | 0.33 | 8.7 |
| 4/20/2015 18:02:10 | 52.49 | 48.29 | 446 | 3.56 | 0.37 | 24.4 |
| 4/20/2015 18:02:10 | 52.82 | 48.62 | 526 | 2.49 | 0.36 | 28.8 |
| 4/20/2015 18:02:11 | 53.15 | 48.95 | 632 | 2.63 | 0.37 | 34.6 |
| 4/20/2015 18:02:17 | 53.48 | 49.28 | 66 | 5.02 | 0.40 | 3.6 |
| 4/20/2015 18:02:19 | 53.81 | 49.61 | 125 | 3.37 | 0.37 | 6.8 |
| 4/20/2015 18:02:20 | 54.13 | 49.93 | 207 | 3.01 | 0.37 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:02:21 | 54.46 | 50.26 | 335 | 4.13 | 0.41 | 18.3 |
| 4/20/2015 | 18:02:32 | 54.79 | 50.59 | 80 | 4.74 | 0.38 | 4.4 |
| 4/20/2015 | 18:02:34 | 55.12 | 50.92 | 211 | 3.31 | 0.40 | 11.5 |
| 4/20/2015 | 18:02:43 | 55.45 | 51.25 | 55 | 3.71 | 0.40 | 3.0 |
| 4/20/2015 | 18:02:49 | 55.77 | 51.57 | 55 | 2.92 | 0.40 | 3.0 |
| 4/20/2015 | 18:02:56 | 56.10 | 51.90 | 51 | 3.94 | 0.39 | 2.8 |
| 4/20/2015 | 18:03:03 | 56.43 | 52.23 | 52 | 3.75 | 0.40 | 2.8 |
| 4/20/2015 | 18:03:06 | 56.57 | 52.37 | 52 | 3.03 | 0.40 | 2.8 |

## E173 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 17:59:10

**End Date:**
4/20/2015 18:04:47

**Operator Note:**
'4.2 4.3 b Auto Complete'

**Northing:**
368,483.25

**Easting:**
253,501.48

**Tide (feet):**
4.20



## Hole: E174 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:07:42 | 34.12 | 30.02 | 1,072 | 0.33 | 0.31 | 58.6 |
| 4/20/2015 18:07:42 | 34.45 | 30.35 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/20/2015 18:07:43 | 34.78 | 30.68 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/20/2015 18:07:43 | 35.11 | 31.01 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/20/2015 18:07:43 | 35.43 | 31.33 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/20/2015 18:07:44 | 35.76 | 31.66 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/20/2015 18:07:44 | 36.09 | 31.99 | 1,092 | 0.31 | 0.31 | 59.7 |
| 4/20/2015 18:07:44 | 36.42 | 32.32 | 1,088 | 0.31 | 0.31 | 59.5 |
| 4/20/2015 18:07:45 | 36.75 | 32.65 | 1,088 | 0.31 | 0.31 | 59.5 |
| 4/20/2015 18:07:45 | 37.07 | 32.97 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/20/2015 18:07:45 | 37.40 | 33.30 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/20/2015 18:07:46 | 37.73 | 33.63 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/20/2015 18:07:46 | 38.06 | 33.96 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/20/2015 18:07:46 | 38.39 | 34.29 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/20/2015 18:07:46 | 38.71 | 34.61 | 1,084 | 0.31 | 0.31 | 59.3 |
| 4/20/2015 18:07:47 | 39.04 | 34.94 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/20/2015 18:07:47 | 39.37 | 35.27 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/20/2015 18:07:47 | 39.70 | 35.60 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/20/2015 18:07:48 | 40.03 | 35.93 | 1,069 | 0.31 | 0.32 | 58.4 |
| 4/20/2015 18:07:48 | 40.35 | 36.25 | 1,069 | 0.31 | 0.32 | 58.4 |
| 4/20/2015 18:07:48 | 40.68 | 36.58 | 1,051 | 0.31 | 0.32 | 57.5 |
| 4/20/2015 18:07:49 | 41.01 | 36.91 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/20/2015 18:07:49 | 41.34 | 37.24 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/20/2015 18:07:49 | 41.67 | 37.57 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/20/2015 18:07:50 | 41.99 | 37.89 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/20/2015 18:07:50 | 42.32 | 38.22 | 1,053 | 0.31 | 0.31 | 57.6 |
| 4/20/2015 18:07:50 | 42.65 | 38.55 | 1,065 | 0.31 | 0.32 | 58.3 |
| 4/20/2015 18:07:51 | 42.98 | 38.88 | 1,065 | 0.31 | 0.32 | 58.3 |
| 4/20/2015 18:07:51 | 43.31 | 39.21 | 1,065 | 0.32 | 0.32 | 58.3 |
| 4/20/2015 18:07:52 | 43.64 | 39.54 | 1,075 | 0.33 | 0.32 | 58.8 |
| 4/20/2015 18:07:52 | 43.96 | 39.86 | 1,075 | 0.33 | 0.32 | 58.8 |
| 4/20/2015 18:07:52 | 44.29 | 40.19 | 1,081 | 0.33 | 0.31 | 59.1 |
| 4/20/2015 18:07:53 | 44.62 | 40.52 | 1,071 | 0.33 | 0.31 | 58.6 |
| 4/20/2015 18:07:53 | 44.95 | 40.85 | 1,071 | 0.33 | 0.31 | 58.6 |
| 4/20/2015 18:07:53 | 45.28 | 41.18 | 1,074 | 0.33 | 0.32 | 58.7 |
| 4/20/2015 18:07:54 | 45.60 | 41.50 | 1,032 | 0.33 | 0.31 | 56.5 |
| 4/20/2015 18:07:54 | 45.93 | 41.83 | 1,032 | 0.33 | 0.31 | 56.5 |
| 4/20/2015 18:07:54 | 46.26 | 42.16 | 1,032 | 0.33 | 0.31 | 56.5 |
| 4/20/2015 18:07:55 | 46.59 | 42.49 | 1,032 | 0.33 | 0.31 | 56.5 |
| 4/20/2015 18:07:55 | 46.92 | 42.82 | 1,043 | 0.33 | 0.32 | 57.0 |
| 4/20/2015 18:07:55 | 47.24 | 43.14 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/20/2015 18:07:56 | 47.57 | 43.47 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/20/2015 18:07:56 | 47.90 | 43.80 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/20/2015 18:07:56 | 48.23 | 44.13 | 1,031 | 0.33 | 0.32 | 56.4 |
| 4/20/2015 18:07:57 | 48.56 | 44.46 | 1,031 | 0.33 | 0.32 | 56.4 |
| 4/20/2015 18:07:57 | 48.88 | 44.78 | 1,067 | 0.33 | 0.41 | 58.3 |
| 4/20/2015 18:07:57 | 49.21 | 45.11 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/20/2015 18:07:58 | 49.54 | 45.44 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/20/2015 18:07:58 | 49.87 | 45.77 | 1,041 | 0.33 | 0.31 | 56.9 |
| 4/20/2015 18:07:58 | 50.20 | 46.10 | 1,041 | 0.33 | 0.31 | 56.9 |
| 4/20/2015 18:07:59 | 50.53 | 46.43 | 1,041 | 0.33 | 0.31 | 56.9 |
| 4/20/2015 18:07:59 | 50.85 | 46.75 | 1,030 | 0.29 | 0.35 | 56.3 |
| 4/20/2015 18:07:59 | 51.18 | 47.08 | 1,030 | 0.29 | 0.36 | 56.3 |
| 4/20/2015 18:08:29 | 51.51 | 47.41 | 0 | 3.43 | 0.37 | 0.0 |
| 4/20/2015 18:08:31 | 51.84 | 47.74 | 155 | 6.08 | 0.40 | 8.5 |
| 4/20/2015 18:08:38 | 52.17 | 48.07 | 3 | 4.53 | 0.39 | 0.2 |
| 4/20/2015 18:08:39 | 52.49 | 48.39 | 136 | 4.99 | 0.39 | 7.4 |
| 4/20/2015 18:08:41 | 52.82 | 48.72 | 303 | 3.69 | 0.40 | 16.6 |
| 4/20/2015 18:08:45 | 53.15 | 49.05 | 55 | 3.22 | 0.39 | 3.0 |
| 4/20/2015 18:08:52 | 53.48 | 49.38 | 46 | 3.18 | 0.39 | 2.5 |
| 4/20/2015 18:08:58 | 53.81 | 49.71 | 87 | 3.09 | 0.40 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:09:06 | 54.13 | 50.03 | 46 | 3.16 | 0.40 | 2.5 |
| 4/20/2015 | 18:09:10 | 54.35 | 50.25 | 54 | 3.45 | 0.39 | 3.0 |

## E174 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 18:05:53

**End Date:**
4/20/2015 18:11:10

**Operator Note:**
'4.1 4.3 b Auto Complete'

**Northing:**
368,519.29

**Easting:**
253,548.19

**Tide (feet):**
4.10



## Hole: E175 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:04:40 | 34.45 | 30.25 | 331 | 1.33 | 0.25 | 18.1 |
| 4/20/2015 18:04:41 | 34.78 | 30.58 | 325 | 1.35 | 0.25 | 17.8 |
| 4/20/2015 18:04:42 | 35.11 | 30.91 | 330 | 1.38 | 0.25 | 18.1 |
| 4/20/2015 18:04:43 | 35.43 | 31.23 | 324 | 1.37 | 0.25 | 17.7 |
| 4/20/2015 18:04:44 | 35.76 | 31.56 | 331 | 1.35 | 0.25 | 18.1 |
| 4/20/2015 18:04:45 | 36.09 | 31.89 | 324 | 1.40 | 0.25 | 17.7 |
| 4/20/2015 18:04:46 | 36.42 | 32.22 | 334 | 1.34 | 0.25 | 18.2 |
| 4/20/2015 18:04:47 | 36.75 | 32.55 | 330 | 1.36 | 0.26 | 18.0 |
| 4/20/2015 18:04:48 | 37.07 | 32.87 | 327 | 1.38 | 0.25 | 17.9 |
| 4/20/2015 18:04:50 | 37.40 | 33.20 | 329 | 1.36 | 0.25 | 18.0 |
| 4/20/2015 18:04:51 | 37.73 | 33.53 | 327 | 1.35 | 0.25 | 17.9 |
| 4/20/2015 18:04:52 | 38.06 | 33.86 | 330 | 1.35 | 0.25 | 18.0 |
| 4/20/2015 18:04:53 | 38.39 | 34.19 | 327 | 1.38 | 0.25 | 17.9 |
| 4/20/2015 18:04:54 | 38.71 | 34.51 | 329 | 1.36 | 0.25 | 18.0 |
| 4/20/2015 18:04:55 | 39.04 | 34.84 | 327 | 1.39 | 0.25 | 17.9 |
| 4/20/2015 18:04:56 | 39.37 | 35.17 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:04:57 | 39.70 | 35.50 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:04:58 | 40.03 | 35.83 | 332 | 1.36 | 0.26 | 18.1 |
| 4/20/2015 18:04:59 | 40.35 | 36.15 | 327 | 1.38 | 0.25 | 17.9 |
| 4/20/2015 18:05:01 | 40.68 | 36.48 | 327 | 1.35 | 0.25 | 17.9 |
| 4/20/2015 18:05:02 | 41.01 | 36.81 | 320 | 1.35 | 0.25 | 17.5 |
| 4/20/2015 18:05:03 | 41.34 | 37.14 | 318 | 1.40 | 0.26 | 17.4 |
| 4/20/2015 18:05:04 | 41.67 | 37.47 | 319 | 1.36 | 0.25 | 17.5 |
| 4/20/2015 18:05:05 | 41.99 | 37.79 | 314 | 1.43 | 0.25 | 17.2 |
| 4/20/2015 18:05:06 | 42.32 | 38.12 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:05:07 | 42.65 | 38.45 | 325 | 1.34 | 0.25 | 17.8 |
| 4/20/2015 18:05:08 | 42.98 | 38.78 | 328 | 1.62 | 0.25 | 18.0 |
| 4/20/2015 18:05:09 | 43.31 | 39.11 | 325 | 1.43 | 0.25 | 17.8 |
| 4/20/2015 18:05:11 | 43.64 | 39.44 | 324 | 1.34 | 0.26 | 17.7 |
| 4/20/2015 18:05:12 | 43.96 | 39.76 | 312 | 1.42 | 0.26 | 17.1 |
| 4/20/2015 18:05:13 | 44.29 | 40.09 | 320 | 1.34 | 0.25 | 17.5 |
| 4/20/2015 18:05:14 | 44.62 | 40.42 | 320 | 1.39 | 0.25 | 17.5 |
| 4/20/2015 18:05:15 | 44.95 | 40.75 | 318 | 1.40 | 0.25 | 17.4 |
| 4/20/2015 18:05:16 | 45.28 | 41.08 | 326 | 1.38 | 0.25 | 17.8 |
| 4/20/2015 18:05:17 | 45.60 | 41.40 | 321 | 1.36 | 0.25 | 17.6 |
| 4/20/2015 18:05:18 | 45.93 | 41.73 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:05:19 | 46.26 | 42.06 | 324 | 1.34 | 0.26 | 17.7 |
| 4/20/2015 18:05:20 | 46.59 | 42.39 | 319 | 1.35 | 0.25 | 17.4 |
| 4/20/2015 18:05:22 | 46.92 | 42.72 | 325 | 1.42 | 0.25 | 17.8 |
| 4/20/2015 18:05:23 | 47.24 | 43.04 | 318 | 1.39 | 0.26 | 17.4 |
| 4/20/2015 18:05:24 | 47.57 | 43.37 | 321 | 1.36 | 0.26 | 17.5 |
| 4/20/2015 18:05:25 | 47.90 | 43.70 | 314 | 1.40 | 0.26 | 17.2 |
| 4/20/2015 18:05:26 | 48.23 | 44.03 | 320 | 1.23 | 0.26 | 17.5 |
| 4/20/2015 18:05:27 | 48.56 | 44.36 | 327 | 1.42 | 0.26 | 17.9 |
| 4/20/2015 18:05:28 | 48.88 | 44.68 | 326 | 1.41 | 0.25 | 17.8 |
| 4/20/2015 18:05:29 | 49.21 | 45.01 | 330 | 1.41 | 0.25 | 18.0 |
| 4/20/2015 18:05:30 | 49.54 | 45.34 | 328 | 1.74 | 0.25 | 17.9 |
| 4/20/2015 18:05:32 | 49.87 | 45.67 | 239 | 1.34 | 0.25 | 13.1 |
| 4/20/2015 18:05:33 | 50.20 | 46.00 | 233 | 1.59 | 0.25 | 12.7 |
| 4/20/2015 18:05:52 | 50.53 | 46.33 | 39 | 1.60 | 0.79 | 2.1 |
| 4/20/2015 18:05:53 | 50.85 | 46.65 | 160 | 1.62 | 0.79 | 8.8 |
| 4/20/2015 18:05:55 | 51.18 | 46.98 | 296 | 1.61 | 0.78 | 16.2 |
| 4/20/2015 18:05:56 | 51.51 | 47.31 | 285 | 1.67 | 0.79 | 15.6 |
| 4/20/2015 18:05:57 | 51.84 | 47.64 | 288 | 1.64 | 0.81 | 15.7 |
| 4/20/2015 18:05:58 | 52.17 | 47.97 | 283 | 1.66 | 0.80 | 15.5 |
| 4/20/2015 18:05:59 | 52.49 | 48.29 | 285 | 1.66 | 0.83 | 15.6 |
| 4/20/2015 18:06:01 | 52.82 | 48.62 | 289 | 1.66 | 0.77 | 15.8 |
| 4/20/2015 18:06:02 | 53.15 | 48.95 | 290 | 1.72 | 0.77 | 15.9 |
| 4/20/2015 18:06:04 | 53.48 | 49.28 | 278 | 1.66 | 0.77 | 15.2 |
| 4/20/2015 18:06:05 | 53.81 | 49.61 | 271 | 1.65 | 0.76 | 14.8 |
| 4/20/2015 18:06:06 | 54.13 | 49.93 | 285 | 1.68 | 0.75 | 15.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:06:07 | 54.46 | 50.26 | 286 | 1.70 | 0.78 | 15.7 |
| 4/20/2015 | 18:06:08 | 54.79 | 50.59 | 288 | 1.68 | 0.78 | 15.7 |
| 4/20/2015 | 18:06:10 | 55.12 | 50.92 | 278 | 1.70 | 0.91 | 15.2 |
| 4/20/2015 | 18:06:11 | 55.45 | 51.25 | 261 | 1.70 | 0.95 | 14.3 |
| 4/20/2015 | 18:06:13 | 55.77 | 51.57 | 268 | 1.70 | 0.77 | 14.6 |
| 4/20/2015 | 18:06:14 | 56.10 | 51.90 | 281 | 1.64 | 0.75 | 15.4 |
| 4/20/2015 | 18:06:15 | 56.43 | 52.23 | 288 | 1.61 | 0.74 | 15.7 |
| 4/20/2015 | 18:06:16 | 56.76 | 52.56 | 286 | 1.68 | 0.75 | 15.7 |
| 4/20/2015 | 18:06:17 | 57.09 | 52.89 | 280 | 1.62 | 0.74 | 15.3 |
| 4/20/2015 | 18:06:19 | 57.41 | 53.21 | 277 | 1.65 | 0.76 | 15.2 |
| 4/20/2015 | 18:06:20 | 57.74 | 53.54 | 276 | 1.72 | 0.83 | 15.1 |
| 4/20/2015 | 18:06:22 | 58.07 | 53.87 | 240 | 1.73 | 0.87 | 13.1 |
| 4/20/2015 | 18:06:24 | 58.40 | 54.20 | 197 | 1.70 | 0.80 | 10.8 |
| 4/20/2015 | 18:06:25 | 58.73 | 54.53 | 206 | 1.72 | 0.80 | 11.3 |
| 4/20/2015 | 18:06:27 | 59.06 | 54.86 | 240 | 1.76 | 1.12 | 13.1 |
| 4/20/2015 | 18:06:30 | 59.36 | 55.16 | 93 | 1.30 | 1.00 | 5.1 |

## E175 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 18:01:32

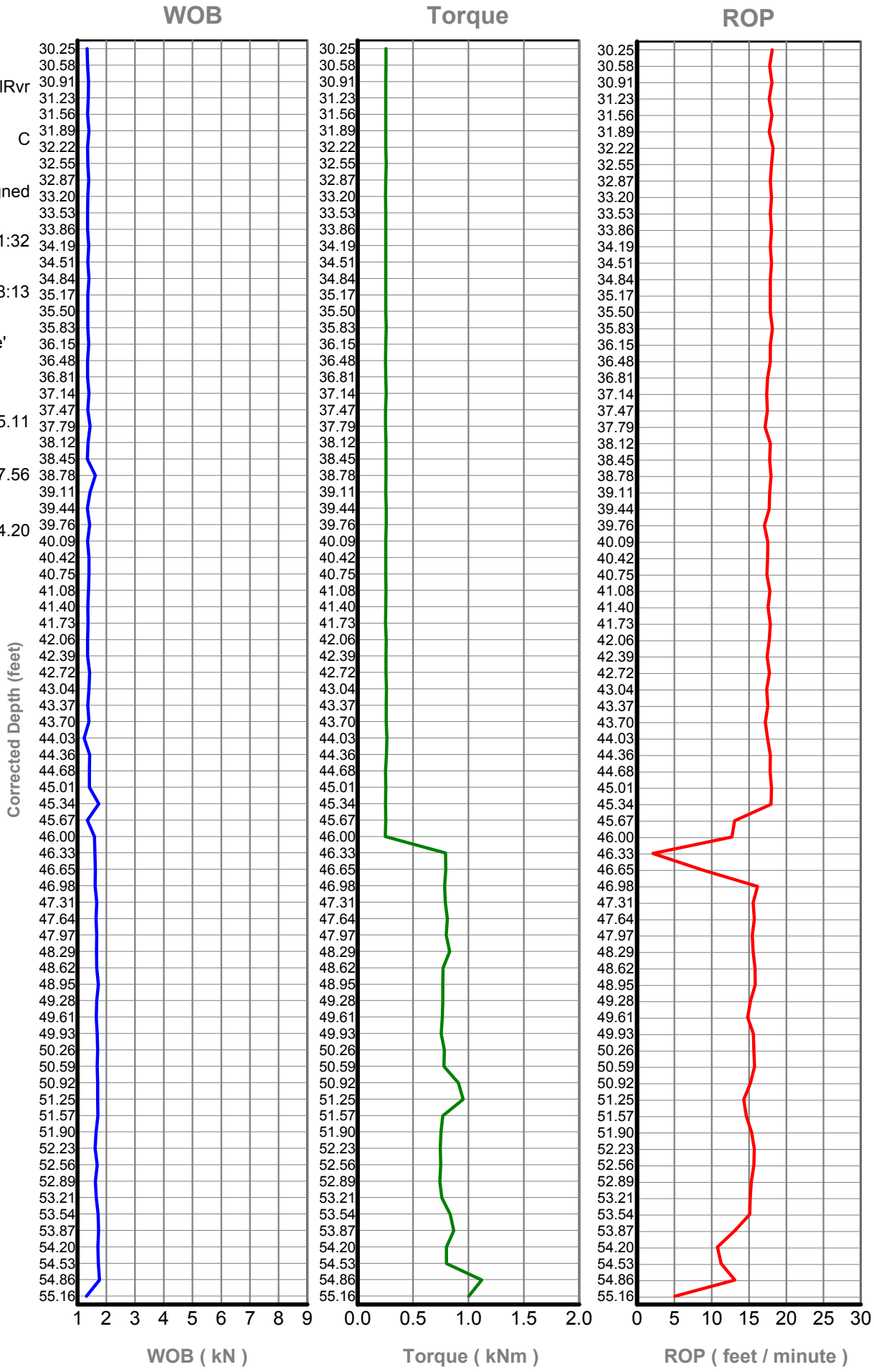
**End Date:**
4/20/2015 18:08:13

**Operator Note:**
'4.2 4.3 c Auto Complete'

**Northing:**
368,565.11

**Easting:**
253,607.56

**Tide (feet):**
4.20



## Hole: E176 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:07:40 | 32.48 | 30.28 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/20/2015 9:07:41 | 32.81 | 30.61 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/20/2015 9:07:41 | 33.14 | 30.94 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/20/2015 9:07:41 | 33.46 | 31.26 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/20/2015 9:07:42 | 33.79 | 31.59 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/20/2015 9:07:42 | 34.12 | 31.92 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/20/2015 9:07:42 | 34.45 | 32.25 | 1,043 | 0.31 | 0.32 | 57.0 |
| 4/20/2015 9:07:43 | 34.78 | 32.58 | 1,043 | 0.31 | 0.32 | 57.0 |
| 4/20/2015 9:07:43 | 35.11 | 32.91 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/20/2015 9:07:44 | 35.43 | 33.23 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/20/2015 9:07:44 | 35.76 | 33.56 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/20/2015 9:07:44 | 36.09 | 33.89 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:45 | 36.42 | 34.22 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:45 | 36.75 | 34.55 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:45 | 37.07 | 34.87 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/20/2015 9:07:46 | 37.40 | 35.20 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 9:07:46 | 37.73 | 35.53 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 9:07:46 | 38.06 | 35.86 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 9:07:47 | 38.39 | 36.19 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/20/2015 9:07:47 | 38.71 | 36.51 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/20/2015 9:07:47 | 39.04 | 36.84 | 1,036 | 0.31 | 0.32 | 56.7 |
| 4/20/2015 9:07:48 | 39.37 | 37.17 | 1,039 | 0.31 | 0.32 | 56.8 |
| 4/20/2015 9:07:48 | 39.70 | 37.50 | 1,039 | 0.31 | 0.32 | 56.8 |
| 4/20/2015 9:07:48 | 40.03 | 37.83 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/20/2015 9:07:49 | 40.35 | 38.15 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/20/2015 9:07:49 | 40.68 | 38.48 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/20/2015 9:07:49 | 41.01 | 38.81 | 1,042 | 0.31 | 0.33 | 57.0 |
| 4/20/2015 9:07:50 | 41.34 | 39.14 | 1,042 | 0.31 | 0.33 | 57.0 |
| 4/20/2015 9:07:50 | 41.67 | 39.47 | 1,042 | 0.31 | 0.33 | 57.0 |
| 4/20/2015 9:07:50 | 41.99 | 39.79 | 1,039 | 0.31 | 0.32 | 56.8 |
| 4/20/2015 9:07:51 | 42.32 | 40.12 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/20/2015 9:07:51 | 42.65 | 40.45 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/20/2015 9:07:51 | 42.98 | 40.78 | 1,031 | 0.31 | 0.32 | 56.4 |
| 4/20/2015 9:07:52 | 43.31 | 41.11 | 1,034 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 9:07:53 | 43.64 | 41.44 | 1,034 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 9:07:52 | 43.96 | 41.76 | 1,034 | 0.31 | 0.32 | 56.5 |
| 4/20/2015 9:07:53 | 44.29 | 42.09 | 1,040 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:53 | 44.62 | 42.42 | 1,040 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:54 | 44.95 | 42.75 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/20/2015 9:07:54 | 45.28 | 43.08 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/20/2015 9:07:54 | 45.60 | 43.40 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/20/2015 9:07:55 | 45.93 | 43.73 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/20/2015 9:07:55 | 46.26 | 44.06 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/20/2015 9:07:55 | 46.59 | 44.39 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/20/2015 9:07:56 | 46.92 | 44.72 | 1,047 | 0.31 | 0.32 | 57.3 |
| 4/20/2015 9:07:56 | 47.24 | 45.04 | 1,047 | 0.31 | 0.32 | 57.3 |
| 4/20/2015 9:07:56 | 47.57 | 45.37 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/20/2015 9:07:57 | 47.90 | 45.70 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/20/2015 9:07:57 | 48.23 | 46.03 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/20/2015 9:07:57 | 48.56 | 46.36 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/20/2015 9:07:58 | 48.88 | 46.68 | 1,051 | 0.31 | 0.32 | 57.5 |
| 4/20/2015 9:07:58 | 49.21 | 47.01 | 1,051 | 0.31 | 0.32 | 57.5 |
| 4/20/2015 9:07:58 | 49.54 | 47.34 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/20/2015 9:07:59 | 49.87 | 47.67 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 9:07:59 | 50.20 | 48.00 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 9:07:59 | 50.53 | 48.33 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/20/2015 9:08:00 | 50.85 | 48.65 | 1,041 | 0.31 | 0.33 | 56.9 |
| 4/20/2015 9:08:00 | 51.18 | 48.98 | 1,041 | 0.31 | 0.33 | 56.9 |
| 4/20/2015 9:08:00 | 51.51 | 49.31 | 1,026 | 0.31 | 0.33 | 56.1 |
| 4/20/2015 9:08:01 | 51.84 | 49.64 | 1,000 | 0.31 | 0.33 | 54.7 |
| 4/20/2015 9:08:01 | 52.17 | 49.97 | 971 | 0.31 | 0.33 | 53.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:08:02 | 52.49 | 50.29 | 971 | 0.31 | 0.33 | 53.1 |
| 4/20/2015 | 9:08:02 | 52.82 | 50.62 | 951 | 0.31 | 0.33 | 52.0 |
| 4/20/2015 | 9:08:02 | 53.15 | 50.95 | 920 | 0.31 | 0.33 | 50.3 |
| 4/20/2015 | 9:08:03 | 53.48 | 51.28 | 899 | 0.31 | 0.34 | 49.2 |
| 4/20/2015 | 9:08:03 | 53.81 | 51.61 | 890 | 0.31 | 0.34 | 48.7 |
| 4/20/2015 | 9:08:04 | 54.13 | 51.93 | 890 | 0.31 | 0.34 | 48.7 |
| 4/20/2015 | 9:08:11 | 54.46 | 52.26 | 49 | 5.45 | 0.40 | 2.7 |
| 4/20/2015 | 9:08:14 | 54.79 | 52.59 | 112 | 4.42 | 0.38 | 6.1 |
| 4/20/2015 | 9:08:17 | 55.12 | 52.92 | 126 | 6.28 | 0.42 | 6.9 |
| 4/20/2015 | 9:08:18 | 55.45 | 53.25 | 170 | 3.24 | 0.37 | 9.3 |
| 4/20/2015 | 9:08:19 | 55.77 | 53.57 | 242 | 3.15 | 0.37 | 13.2 |
| 4/20/2015 | 9:08:19 | 56.10 | 53.90 | 322 | 3.42 | 0.36 | 17.6 |
| 4/20/2015 | 9:08:21 | 56.43 | 54.23 | 397 | 5.46 | 0.41 | 21.7 |
| 4/20/2015 | 9:08:22 | 56.76 | 54.56 | 350 | 3.77 | 0.39 | 19.1 |
| 4/20/2015 | 9:08:23 | 57.09 | 54.89 | 301 | 3.91 | 0.40 | 16.5 |
| 4/20/2015 | 9:08:26 | 57.41 | 55.21 | 180 | 2.95 | 0.37 | 9.8 |

## E176 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:05:31

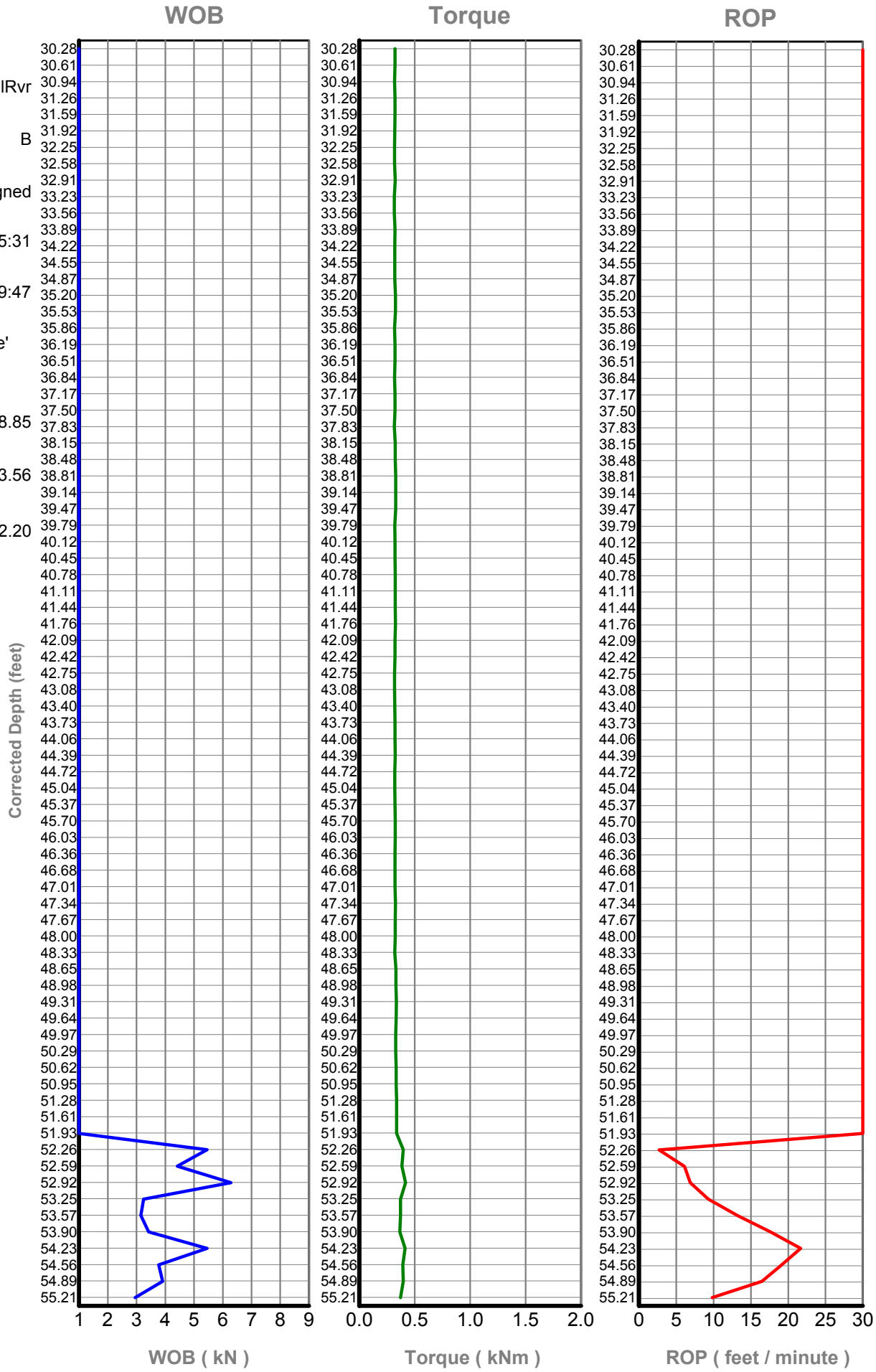
**End Date:**
4/20/2015 9:09:47

**Operator Note:**
'2.2 2.4 b Auto Complete'

**Northing:**
368,618.85

**Easting:**
253,673.56

**Tide (feet):**
2.20



## Hole: E177 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:24:01 | 37.07 | 30.17 | 900 | 0.35 | 0.33 | 49.2 |
| 4/22/2015 3:24:01 | 37.40 | 30.50 | 911 | 0.35 | 0.33 | 49.8 |
| 4/22/2015 3:24:01 | 37.73 | 30.83 | 918 | 0.35 | 0.34 | 50.2 |
| 4/22/2015 3:24:02 | 38.06 | 31.16 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:02 | 38.39 | 31.49 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:02 | 38.71 | 31.81 | 922 | 0.35 | 0.33 | 50.4 |
| 4/22/2015 3:24:03 | 39.04 | 32.14 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:03 | 39.37 | 32.47 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:03 | 39.70 | 32.80 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:04 | 40.03 | 33.13 | 931 | 0.35 | 0.33 | 50.9 |
| 4/22/2015 3:24:04 | 40.35 | 33.45 | 925 | 0.35 | 0.34 | 50.6 |
| 4/22/2015 3:24:05 | 40.68 | 33.78 | 925 | 0.35 | 0.34 | 50.6 |
| 4/22/2015 3:24:05 | 41.01 | 34.11 | 922 | 0.35 | 0.33 | 50.4 |
| 4/22/2015 3:24:05 | 41.34 | 34.44 | 919 | 0.35 | 0.34 | 50.3 |
| 4/22/2015 3:24:06 | 41.67 | 34.77 | 919 | 0.35 | 0.33 | 50.3 |
| 4/22/2015 3:24:07 | 41.99 | 35.09 | 919 | 0.35 | 0.33 | 50.3 |
| 4/22/2015 3:24:07 | 42.32 | 35.42 | 919 | 0.35 | 0.34 | 50.3 |
| 4/22/2015 3:24:07 | 42.65 | 35.75 | 922 | 0.36 | 0.34 | 50.4 |
| 4/22/2015 3:24:08 | 42.98 | 36.08 | 922 | 0.35 | 0.34 | 50.4 |
| 4/22/2015 3:24:08 | 43.31 | 36.41 | 922 | 0.35 | 0.34 | 50.4 |
| 4/22/2015 3:24:08 | 43.64 | 36.74 | 928 | 0.35 | 0.33 | 50.7 |
| 4/22/2015 3:24:09 | 43.96 | 37.06 | 928 | 0.35 | 0.33 | 50.7 |
| 4/22/2015 3:24:09 | 44.29 | 37.39 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:10 | 44.62 | 37.72 | 928 | 0.35 | 0.34 | 50.7 |
| 4/22/2015 3:24:10 | 44.95 | 38.05 | 920 | 0.35 | 0.33 | 50.3 |
| 4/22/2015 3:24:10 | 45.28 | 38.38 | 925 | 0.35 | 0.34 | 50.6 |
| 4/22/2015 3:24:11 | 45.60 | 38.70 | 919 | 0.35 | 0.34 | 50.3 |
| 4/22/2015 3:24:11 | 45.93 | 39.03 | 919 | 0.35 | 0.34 | 50.3 |
| 4/22/2015 3:24:11 | 46.26 | 39.36 | 913 | 0.35 | 0.33 | 49.9 |
| 4/22/2015 3:24:12 | 46.59 | 39.69 | 913 | 0.35 | 0.33 | 49.9 |
| 4/22/2015 3:24:12 | 46.92 | 40.02 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:13 | 47.24 | 40.34 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:13 | 47.57 | 40.67 | 913 | 0.35 | 0.34 | 49.9 |
| 4/22/2015 3:24:13 | 47.90 | 41.00 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:14 | 48.23 | 41.33 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 3:24:14 | 48.56 | 41.66 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 3:24:14 | 48.88 | 41.98 | 902 | 0.36 | 0.34 | 49.3 |
| 4/22/2015 3:24:15 | 49.21 | 42.31 | 913 | 0.35 | 0.34 | 49.9 |
| 4/22/2015 3:24:15 | 49.54 | 42.64 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:16 | 49.87 | 42.97 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:16 | 50.20 | 43.30 | 910 | 0.35 | 0.34 | 49.8 |
| 4/22/2015 3:24:16 | 50.53 | 43.63 | 897 | 0.35 | 0.34 | 49.1 |
| 4/22/2015 3:24:17 | 50.85 | 43.95 | 897 | 0.36 | 0.33 | 49.1 |
| 4/22/2015 3:24:18 | 51.18 | 44.28 | 897 | 0.36 | 0.33 | 49.1 |
| 4/22/2015 3:24:18 | 51.51 | 44.61 | 916 | 0.35 | 0.33 | 50.1 |
| 4/22/2015 3:24:18 | 51.84 | 44.94 | 902 | 0.36 | 0.34 | 49.3 |
| 4/22/2015 3:24:19 | 52.17 | 45.27 | 905 | 0.35 | 0.34 | 49.5 |
| 4/22/2015 3:24:19 | 52.49 | 45.59 | 905 | 0.35 | 0.34 | 49.5 |
| 4/22/2015 3:24:19 | 52.82 | 45.92 | 902 | 0.35 | 0.34 | 49.3 |
| 4/22/2015 3:24:20 | 53.15 | 46.25 | 917 | 0.35 | 0.33 | 50.2 |
| 4/22/2015 3:24:20 | 53.48 | 46.58 | 911 | 0.36 | 0.34 | 49.8 |
| 4/22/2015 3:24:21 | 53.81 | 46.91 | 911 | 0.36 | 0.34 | 49.8 |
| 4/22/2015 3:24:21 | 54.13 | 47.23 | 919 | 0.35 | 0.33 | 50.2 |
| 4/22/2015 3:24:21 | 54.46 | 47.56 | 911 | 0.35 | 0.34 | 49.8 |
| 4/22/2015 3:24:22 | 54.79 | 47.89 | 913 | 0.35 | 0.34 | 50.0 |
| 4/22/2015 3:24:34 | 55.12 | 48.22 | 0 | 0.41 | 0.42 | 0.0 |
| 4/22/2015 3:24:34 | 55.45 | 48.55 | 53 | 0.35 | 0.34 | 2.9 |
| 4/22/2015 3:24:35 | 55.77 | 48.87 | 216 | 0.34 | 0.36 | 11.8 |
| 4/22/2015 3:25:16 | 56.10 | 49.20 | 0 | 3.08 | 0.37 | 0.0 |
| 4/22/2015 3:25:24 | 56.43 | 49.53 | 98 | 3.35 | 0.39 | 5.4 |
| 4/22/2015 3:25:25 | 56.76 | 49.86 | 191 | 3.52 | 0.37 | 10.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:25:25 | 57.09 | 50.19 | 303 | 3.07 | 0.35 | 16.6 |
| 4/22/2015 | 3:25:26 | 57.41 | 50.51 | 357 | 2.79 | 0.36 | 19.5 |
| 4/22/2015 | 3:25:26 | 57.74 | 50.84 | 439 | 2.49 | 0.35 | 24.0 |
| 4/22/2015 | 3:25:27 | 58.07 | 51.17 | 542 | 2.37 | 0.34 | 29.7 |
| 4/22/2015 | 3:25:27 | 58.40 | 51.50 | 635 | 2.80 | 0.35 | 34.7 |
| 4/22/2015 | 3:25:28 | 58.73 | 51.83 | 677 | 4.43 | 0.35 | 37.0 |
| 4/22/2015 | 3:25:28 | 59.06 | 52.16 | 705 | 2.43 | 0.35 | 38.6 |
| 4/22/2015 | 3:25:29 | 59.38 | 52.48 | 720 | 2.52 | 0.36 | 39.4 |
| 4/22/2015 | 3:25:32 | 59.71 | 52.81 | 334 | 5.02 | 0.41 | 18.2 |
| 4/22/2015 | 3:25:35 | 60.04 | 53.14 | 92 | 4.38 | 0.37 | 5.0 |
| 4/22/2015 | 3:25:36 | 60.37 | 53.47 | 235 | 3.92 | 0.37 | 12.9 |
| 4/22/2015 | 3:25:36 | 60.70 | 53.80 | 235 | 3.22 | 0.37 | 12.9 |
| 4/22/2015 | 3:25:37 | 61.02 | 54.12 | 300 | 4.05 | 0.37 | 16.4 |
| 4/22/2015 | 3:25:38 | 61.35 | 54.45 | 381 | 5.45 | 0.37 | 20.9 |
| 4/22/2015 | 3:25:39 | 61.68 | 54.78 | 442 | 5.44 | 0.40 | 24.2 |
| 4/22/2015 | 3:25:40 | 61.87 | 54.97 | 412 | 4.93 | 0.40 | 22.5 |

## E177 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:05:22

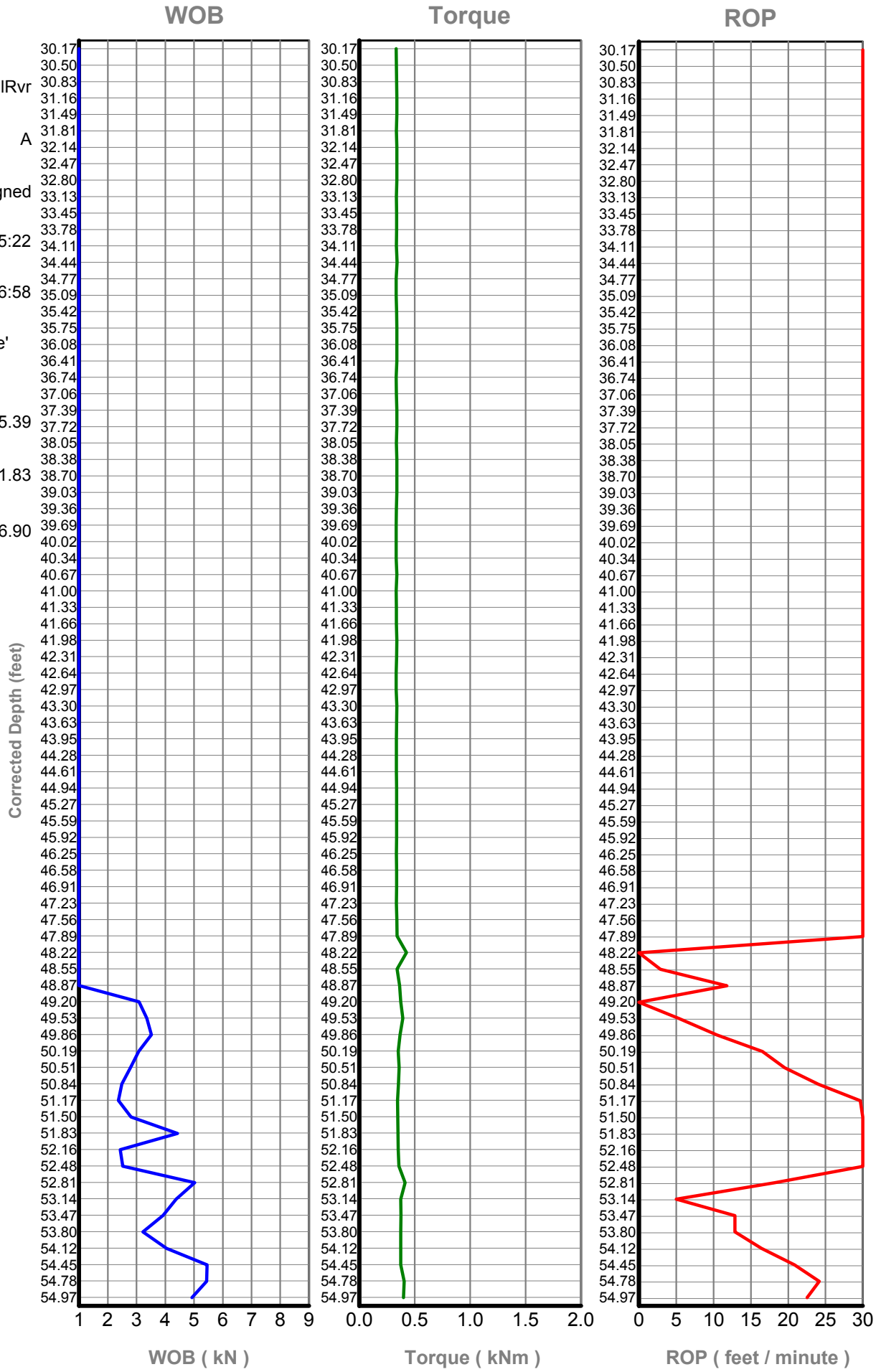
**End Date:**
4/22/2015 3:26:58

**Operator Note:**
'6.9 6.9 b Auto Complete'

**Northing:**
367,855.39

**Easting:**
252,841.83

**Tide (feet):**
6.90



## Hole: E178 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:22:13 | 37.07 | 30.17 | 1,366 | 3.24 | 0.15 | 74.7 |
| 4/22/2015 3:22:13 | 37.40 | 30.50 | 1,393 | 3.22 | 0.15 | 76.2 |
| 4/22/2015 3:22:13 | 37.73 | 30.83 | 1,393 | 3.22 | 0.15 | 76.2 |
| 4/22/2015 3:22:14 | 38.06 | 31.16 | 1,401 | 3.22 | 0.15 | 76.6 |
| 4/22/2015 3:22:14 | 38.39 | 31.49 | 1,401 | 3.22 | 0.15 | 76.6 |
| 4/22/2015 3:22:14 | 38.71 | 31.81 | 1,390 | 3.24 | 0.16 | 76.0 |
| 4/22/2015 3:22:14 | 39.04 | 32.14 | 1,390 | 3.24 | 0.16 | 76.0 |
| 4/22/2015 3:22:15 | 39.37 | 32.47 | 1,390 | 3.21 | 0.15 | 76.0 |
| 4/22/2015 3:22:15 | 39.70 | 32.80 | 1,390 | 3.21 | 0.15 | 76.0 |
| 4/22/2015 3:22:15 | 40.03 | 33.13 | 1,446 | 3.20 | 0.15 | 79.1 |
| 4/22/2015 3:22:15 | 40.35 | 33.45 | 1,446 | 3.20 | 0.15 | 79.1 |
| 4/22/2015 3:22:16 | 40.68 | 33.78 | 1,414 | 3.24 | 0.15 | 77.3 |
| 4/22/2015 3:22:16 | 41.01 | 34.11 | 1,414 | 3.24 | 0.15 | 77.3 |
| 4/22/2015 3:22:16 | 41.34 | 34.44 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:22:16 | 41.67 | 34.77 | 1,408 | 3.22 | 0.15 | 77.0 |
| 4/22/2015 3:22:17 | 41.99 | 35.09 | 1,408 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 3:22:17 | 42.32 | 35.42 | 1,408 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 3:22:17 | 42.65 | 35.75 | 1,422 | 3.24 | 0.15 | 77.8 |
| 4/22/2015 3:22:17 | 42.98 | 36.08 | 1,422 | 3.24 | 0.15 | 77.8 |
| 4/22/2015 3:22:18 | 43.31 | 36.41 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:22:18 | 43.64 | 36.74 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:22:18 | 43.96 | 37.06 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:19 | 44.29 | 37.39 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:19 | 44.62 | 37.72 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:19 | 44.95 | 38.05 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:19 | 45.28 | 38.38 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:19 | 45.60 | 38.70 | 1,430 | 3.23 | 0.15 | 78.2 |
| 4/22/2015 3:22:20 | 45.93 | 39.03 | 1,430 | 3.23 | 0.15 | 78.2 |
| 4/22/2015 3:22:20 | 46.26 | 39.36 | 1,417 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:20 | 46.59 | 39.69 | 1,417 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:20 | 46.92 | 40.02 | 1,417 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 3:22:21 | 47.24 | 40.34 | 1,417 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 3:22:21 | 47.57 | 40.67 | 1,417 | 3.23 | 0.15 | 77.5 |
| 4/22/2015 3:22:21 | 47.90 | 41.00 | 1,417 | 3.23 | 0.15 | 77.5 |
| 4/22/2015 3:22:21 | 48.23 | 41.33 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:22:22 | 48.56 | 41.66 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/22/2015 3:22:22 | 48.88 | 41.98 | 1,416 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:22 | 49.21 | 42.31 | 1,416 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:22 | 49.54 | 42.64 | 1,419 | 3.21 | 0.15 | 77.6 |
| 4/22/2015 3:22:23 | 49.87 | 42.97 | 1,419 | 3.21 | 0.15 | 77.6 |
| 4/22/2015 3:22:23 | 50.20 | 43.30 | 1,411 | 3.24 | 0.15 | 77.2 |
| 4/22/2015 3:22:23 | 50.53 | 43.63 | 1,411 | 3.24 | 0.15 | 77.2 |
| 4/22/2015 3:22:24 | 50.85 | 43.95 | 1,422 | 3.21 | 0.15 | 77.8 |
| 4/22/2015 3:22:24 | 51.18 | 44.28 | 1,422 | 3.21 | 0.15 | 77.8 |
| 4/22/2015 3:22:24 | 51.51 | 44.61 | 1,419 | 3.21 | 0.15 | 77.6 |
| 4/22/2015 3:22:24 | 51.84 | 44.94 | 1,419 | 3.21 | 0.15 | 77.6 |
| 4/22/2015 3:22:25 | 52.17 | 45.27 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:25 | 52.49 | 45.59 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:25 | 52.82 | 45.92 | 1,417 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 3:22:25 | 53.15 | 46.25 | 1,417 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 3:22:26 | 53.48 | 46.58 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:26 | 53.81 | 46.91 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 3:22:26 | 54.13 | 47.23 | 1,416 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:26 | 54.46 | 47.56 | 1,416 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:27 | 54.79 | 47.89 | 1,416 | 3.22 | 0.15 | 77.5 |
| 4/22/2015 3:22:27 | 55.12 | 48.22 | 1,414 | 3.22 | 0.15 | 77.3 |
| 4/22/2015 3:22:27 | 55.45 | 48.55 | 1,414 | 3.22 | 0.15 | 77.3 |
| 4/22/2015 3:22:27 | 55.77 | 48.87 | 1,403 | 3.22 | 0.15 | 76.7 |
| 4/22/2015 3:22:27 | 56.10 | 49.20 | 1,403 | 3.22 | 0.15 | 76.7 |
| 4/22/2015 3:22:28 | 56.43 | 49.53 | 1,394 | 3.22 | 0.15 | 76.3 |
| 4/22/2015 3:22:28 | 56.76 | 49.86 | 1,394 | 3.22 | 0.15 | 76.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:22:28 | 57.09 | 50.19 | 1,406 | 3.21 | 0.15 | 76.9 |
| 4/22/2015 | 3:22:28 | 57.41 | 50.51 | 1,406 | 3.21 | 0.15 | 76.9 |
| 4/22/2015 | 3:22:29 | 57.74 | 50.84 | 1,400 | 3.21 | 0.15 | 76.6 |
| 4/22/2015 | 3:22:29 | 58.07 | 51.17 | 1,400 | 3.21 | 0.15 | 76.6 |
| 4/22/2015 | 3:22:58 | 58.40 | 51.50 | 0 | 1.68 | 1.08 | 0.0 |
| 4/22/2015 | 3:23:05 | 58.73 | 51.83 | 0 | 3.30 | 1.15 | 0.0 |
| 4/22/2015 | 3:23:06 | 59.06 | 52.16 | 0 | 3.30 | 1.15 | 0.0 |
| 4/22/2015 | 3:23:09 | 59.38 | 52.48 | 0 | 3.25 | 0.98 | 0.0 |
| 4/22/2015 | 3:23:11 | 59.71 | 52.81 | 177 | 1.83 | 1.32 | 9.7 |
| 4/22/2015 | 3:23:12 | 60.04 | 53.14 | 283 | 1.99 | 1.14 | 15.5 |
| 4/22/2015 | 3:23:18 | 60.37 | 53.47 | 77 | 1.91 | 1.51 | 4.2 |
| 4/22/2015 | 3:23:19 | 60.70 | 53.80 | 167 | 1.85 | 1.32 | 9.1 |
| 4/22/2015 | 3:23:28 | 61.02 | 54.12 | 40 | 1.79 | 1.05 | 2.2 |
| 4/22/2015 | 3:23:29 | 61.35 | 54.45 | 97 | 1.75 | 1.14 | 5.3 |
| 4/22/2015 | 3:23:30 | 61.68 | 54.78 | 248 | 1.99 | 1.21 | 13.6 |
| 4/22/2015 | 3:23:34 | 61.87 | 54.97 | 0 | 1.88 | 1.35 | 0.0 |

## E178 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:20:50

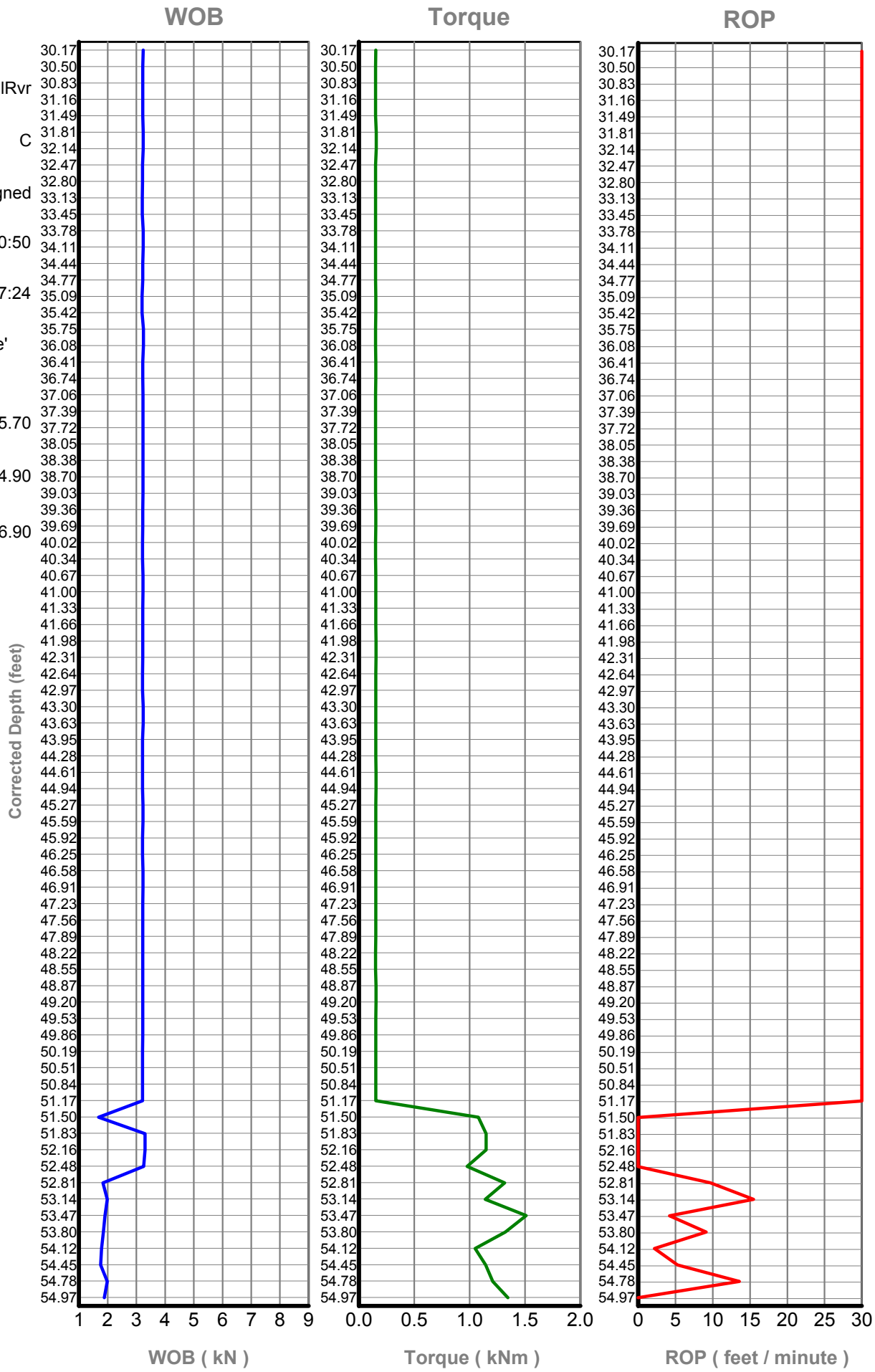
**End Date:**
4/22/2015 3:27:24

**Operator Note:**
'6.9 6.9 c Auto Complete'

**Northing:**
367,895.70

**Easting:**
252,894.90

**Tide (feet):**
6.90



## Hole: E179 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:32:05 | 37.07 | 30.07 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 3:32:05 | 37.40 | 30.40 | 1,437 | 3.22 | 0.15 | 78.6 |
| 4/22/2015 3:32:05 | 37.73 | 30.73 | 1,437 | 3.22 | 0.15 | 78.6 |
| 4/22/2015 3:32:05 | 38.06 | 31.06 | 1,454 | 3.20 | 0.15 | 79.5 |
| 4/22/2015 3:32:06 | 38.39 | 31.39 | 1,454 | 3.20 | 0.15 | 79.5 |
| 4/22/2015 3:32:06 | 38.71 | 31.71 | 1,448 | 3.20 | 0.15 | 79.2 |
| 4/22/2015 3:32:06 | 39.04 | 32.04 | 1,448 | 3.20 | 0.15 | 79.2 |
| 4/22/2015 3:32:07 | 39.37 | 32.37 | 1,440 | 3.20 | 0.15 | 78.7 |
| 4/22/2015 3:32:07 | 39.70 | 32.70 | 1,440 | 3.20 | 0.15 | 78.7 |
| 4/22/2015 3:32:07 | 40.03 | 33.03 | 1,448 | 3.20 | 0.15 | 79.2 |
| 4/22/2015 3:32:07 | 40.35 | 33.35 | 1,448 | 3.20 | 0.15 | 79.2 |
| 4/22/2015 3:32:08 | 40.68 | 33.68 | 1,448 | 3.20 | 0.15 | 79.2 |
| 4/22/2015 3:32:08 | 41.01 | 34.01 | 1,457 | 3.18 | 0.15 | 79.7 |
| 4/22/2015 3:32:08 | 41.34 | 34.34 | 1,457 | 3.18 | 0.15 | 79.7 |
| 4/22/2015 3:32:08 | 41.67 | 34.67 | 1,451 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:32:08 | 41.99 | 34.99 | 1,451 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:32:09 | 42.32 | 35.32 | 1,451 | 3.21 | 0.15 | 79.3 |
| 4/22/2015 3:32:09 | 42.65 | 35.65 | 1,451 | 3.21 | 0.15 | 79.3 |
| 4/22/2015 3:32:09 | 42.98 | 35.98 | 1,451 | 3.22 | 0.15 | 79.3 |
| 4/22/2015 3:32:09 | 43.31 | 36.31 | 1,451 | 3.22 | 0.15 | 79.3 |
| 4/22/2015 3:32:10 | 43.64 | 36.64 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 3:32:10 | 43.96 | 36.96 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 3:32:10 | 44.29 | 37.29 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/22/2015 3:32:10 | 44.62 | 37.62 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/22/2015 3:32:11 | 44.95 | 37.95 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 3:32:11 | 45.28 | 38.28 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 3:32:11 | 45.60 | 38.60 | 1,445 | 3.21 | 0.15 | 79.0 |
| 4/22/2015 3:32:11 | 45.93 | 38.93 | 1,445 | 3.21 | 0.15 | 79.0 |
| 4/22/2015 3:32:12 | 46.26 | 39.26 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:32:12 | 46.59 | 39.59 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:32:12 | 46.92 | 39.92 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:32:12 | 47.24 | 40.24 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 3:32:13 | 47.57 | 40.57 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 3:32:13 | 47.90 | 40.90 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 3:32:13 | 48.23 | 41.23 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 3:32:13 | 48.56 | 41.56 | 1,445 | 3.18 | 0.15 | 79.0 |
| 4/22/2015 3:32:14 | 48.88 | 41.88 | 1,445 | 3.18 | 0.15 | 79.0 |
| 4/22/2015 3:32:14 | 49.21 | 42.21 | 1,448 | 3.18 | 0.15 | 79.2 |
| 4/22/2015 3:32:14 | 49.54 | 42.54 | 1,448 | 3.18 | 0.15 | 79.2 |
| 4/22/2015 3:32:14 | 49.87 | 42.87 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/22/2015 3:32:15 | 50.20 | 43.20 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/22/2015 3:32:15 | 50.53 | 43.53 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/22/2015 3:32:15 | 50.85 | 43.85 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/22/2015 3:32:15 | 51.18 | 44.18 | 1,434 | 3.22 | 0.15 | 78.4 |
| 4/22/2015 3:32:16 | 51.51 | 44.51 | 1,434 | 3.22 | 0.15 | 78.4 |
| 4/22/2015 3:32:16 | 51.84 | 44.84 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:16 | 52.17 | 45.17 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:16 | 52.49 | 45.49 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:17 | 52.82 | 45.82 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:17 | 53.15 | 46.15 | 1,431 | 3.19 | 0.15 | 78.2 |
| 4/22/2015 3:32:17 | 53.48 | 46.48 | 1,431 | 3.19 | 0.15 | 78.2 |
| 4/22/2015 3:32:18 | 53.81 | 46.81 | 1,431 | 3.19 | 0.15 | 78.2 |
| 4/22/2015 3:32:18 | 54.13 | 47.13 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:18 | 54.46 | 47.46 | 1,409 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 3:32:18 | 54.79 | 47.79 | 1,427 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:32:18 | 55.12 | 48.12 | 1,427 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:32:19 | 55.45 | 48.45 | 1,436 | 3.19 | 0.15 | 78.5 |
| 4/22/2015 3:32:19 | 55.77 | 48.77 | 1,436 | 3.19 | 0.15 | 78.5 |
| 4/22/2015 3:32:19 | 56.10 | 49.10 | 1,458 | 3.24 | 0.15 | 79.7 |
| 4/22/2015 3:32:19 | 56.43 | 49.43 | 1,458 | 3.24 | 0.15 | 79.7 |
| 4/22/2015 3:32:20 | 56.76 | 49.76 | 1,427 | 2.00 | 0.15 | 78.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:32:51 | 57.09 | 50.09 | 45 | 1.46 | 1.26 | 2.5 |
| 4/22/2015 | 3:32:52 | 57.41 | 50.41 | 161 | 1.81 | 1.18 | 8.8 |
| 4/22/2015 | 3:32:54 | 57.74 | 50.74 | 260 | 1.53 | 1.07 | 14.2 |
| 4/22/2015 | 3:32:58 | 58.07 | 51.07 | 0 | 3.45 | 1.27 | 0.0 |
| 4/22/2015 | 3:33:00 | 58.40 | 51.40 | 179 | 1.66 | 1.12 | 9.8 |
| 4/22/2015 | 3:33:05 | 58.73 | 51.73 | 67 | 1.83 | 1.38 | 3.6 |
| 4/22/2015 | 3:33:07 | 59.06 | 52.06 | 143 | 1.80 | 1.15 | 7.8 |
| 4/22/2015 | 3:33:16 | 59.38 | 52.38 | 0 | 1.90 | 1.34 | 0.0 |
| 4/22/2015 | 3:33:17 | 59.71 | 52.71 | 122 | 1.83 | 1.07 | 6.6 |
| 4/22/2015 | 3:33:27 | 60.04 | 53.04 | 0 | 3.30 | 1.31 | 0.0 |
| 4/22/2015 | 3:33:28 | 60.37 | 53.37 | 130 | 1.81 | 1.08 | 7.1 |
| 4/22/2015 | 3:33:29 | 60.70 | 53.70 | 221 | 1.82 | 1.14 | 12.1 |
| 4/22/2015 | 3:33:55 | 61.02 | 54.02 | 26 | 1.74 | 1.09 | 1.4 |
| 4/22/2015 | 3:33:57 | 61.35 | 54.35 | 148 | 1.76 | 1.18 | 8.1 |
| 4/22/2015 | 3:33:58 | 61.68 | 54.68 | 231 | 1.72 | 1.27 | 12.6 |
| 4/22/2015 | 3:34:04 | 62.01 | 55.01 | 0 | 2.03 | 1.18 | 0.0 |
| 4/22/2015 | 3:34:04 | 62.07 | 55.07 | 38 | 1.81 | 1.14 | 2.1 |

## E179 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:30:39

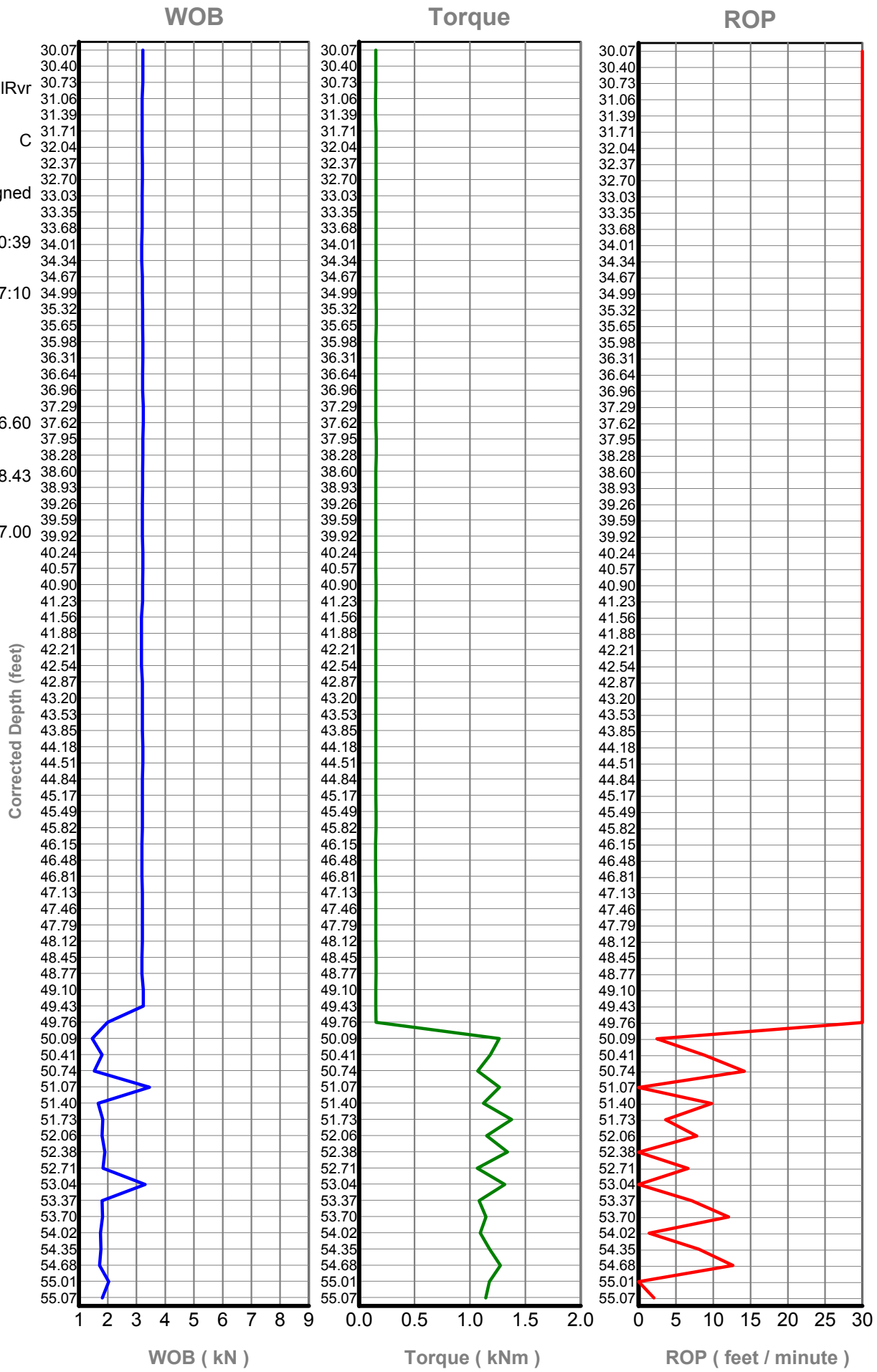
**End Date:**
4/22/2015 3:37:10

**Operator Note:**
'7 7.0 c Auto Complete'

**Northing:**
367,936.60

**Easting:**
252,948.43

**Tide (feet):**
7.00



## Hole: E18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 15:40:16 | 36.75 | 30.15 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:17 | 37.07 | 30.47 | 451 | 1.68 | 0.25 | 24.7 |
| 4/20/2015 15:40:18 | 37.40 | 30.80 | 454 | 1.66 | 0.24 | 24.8 |
| 4/20/2015 15:40:19 | 37.73 | 31.13 | 457 | 1.53 | 0.25 | 25.0 |
| 4/20/2015 15:40:19 | 38.06 | 31.46 | 454 | 1.67 | 0.25 | 24.8 |
| 4/20/2015 15:40:20 | 38.39 | 31.79 | 451 | 1.64 | 0.25 | 24.7 |
| 4/20/2015 15:40:21 | 38.71 | 32.11 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:22 | 39.04 | 32.44 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:23 | 39.37 | 32.77 | 454 | 1.67 | 0.25 | 24.8 |
| 4/20/2015 15:40:23 | 39.70 | 33.10 | 442 | 1.67 | 0.25 | 24.2 |
| 4/20/2015 15:40:24 | 40.03 | 33.43 | 448 | 1.67 | 0.25 | 24.5 |
| 4/20/2015 15:40:25 | 40.35 | 33.75 | 441 | 1.66 | 0.24 | 24.1 |
| 4/20/2015 15:40:26 | 40.68 | 34.08 | 445 | 1.65 | 0.25 | 24.4 |
| 4/20/2015 15:40:26 | 41.01 | 34.41 | 446 | 1.67 | 0.25 | 24.4 |
| 4/20/2015 15:40:27 | 41.34 | 34.74 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:28 | 41.67 | 35.07 | 458 | 1.66 | 0.25 | 25.0 |
| 4/20/2015 15:40:29 | 41.99 | 35.39 | 454 | 1.65 | 0.24 | 24.8 |
| 4/20/2015 15:40:30 | 42.32 | 35.72 | 451 | 1.67 | 0.25 | 24.7 |
| 4/20/2015 15:40:31 | 42.65 | 36.05 | 449 | 1.66 | 0.25 | 24.5 |
| 4/20/2015 15:40:31 | 42.98 | 36.38 | 454 | 1.66 | 0.25 | 24.8 |
| 4/20/2015 15:40:32 | 43.31 | 36.71 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:33 | 43.64 | 37.04 | 448 | 1.67 | 0.25 | 24.5 |
| 4/20/2015 15:40:34 | 43.96 | 37.36 | 448 | 1.68 | 0.25 | 24.5 |
| 4/20/2015 15:40:34 | 44.29 | 37.69 | 448 | 1.66 | 0.24 | 24.5 |
| 4/20/2015 15:40:35 | 44.62 | 38.02 | 451 | 1.66 | 0.25 | 24.7 |
| 4/20/2015 15:40:36 | 44.95 | 38.35 | 446 | 1.66 | 0.25 | 24.4 |
| 4/20/2015 15:40:37 | 45.28 | 38.68 | 445 | 1.68 | 0.25 | 24.4 |
| 4/20/2015 15:40:41 | 45.60 | 39.00 | 60 | 1.70 | 0.97 | 3.3 |
| 4/20/2015 15:41:00 | 45.93 | 39.33 | 49 | 1.89 | 1.18 | 2.7 |
| 4/20/2015 15:41:02 | 46.26 | 39.66 | 119 | 1.92 | 1.22 | 6.5 |
| 4/20/2015 15:41:05 | 46.59 | 39.99 | 127 | 1.94 | 1.27 | 7.0 |
| 4/20/2015 15:41:09 | 46.92 | 40.32 | 100 | 1.93 | 1.17 | 5.5 |
| 4/20/2015 15:41:11 | 47.24 | 40.64 | 150 | 1.91 | 1.15 | 8.2 |
| 4/20/2015 15:41:13 | 47.57 | 40.97 | 179 | 1.87 | 1.08 | 9.8 |
| 4/20/2015 15:41:14 | 47.90 | 41.30 | 240 | 1.93 | 1.19 | 13.1 |
| 4/20/2015 15:41:20 | 48.23 | 41.63 | 57 | 1.96 | 1.22 | 3.1 |
| 4/20/2015 15:41:25 | 48.56 | 41.96 | 75 | 1.95 | 1.19 | 4.1 |
| 4/20/2015 15:41:34 | 48.88 | 42.28 | 43 | 1.96 | 1.16 | 2.4 |
| 4/20/2015 15:41:40 | 49.21 | 42.61 | 51 | 1.96 | 1.08 | 2.8 |
| 4/20/2015 15:41:47 | 49.54 | 42.94 | 61 | 1.94 | 1.14 | 3.3 |
| 4/20/2015 15:41:53 | 49.87 | 43.27 | 55 | 1.95 | 1.15 | 3.0 |
| 4/20/2015 15:41:56 | 50.20 | 43.60 | 95 | 1.90 | 1.05 | 5.2 |
| 4/20/2015 15:41:58 | 50.53 | 43.93 | 166 | 1.95 | 1.05 | 9.1 |
| 4/20/2015 15:42:05 | 50.85 | 44.25 | 49 | 1.94 | 1.13 | 2.7 |
| 4/20/2015 15:42:13 | 51.18 | 44.58 | 41 | 1.93 | 1.08 | 2.2 |
| 4/20/2015 15:42:21 | 51.51 | 44.91 | 43 | 1.95 | 1.13 | 2.4 |
| 4/20/2015 15:42:30 | 51.84 | 45.24 | 38 | 1.95 | 1.18 | 2.1 |
| 4/20/2015 15:42:39 | 52.17 | 45.57 | 38 | 1.95 | 1.02 | 2.1 |
| 4/20/2015 15:42:48 | 52.49 | 45.89 | 39 | 2.09 | 1.13 | 2.1 |
| 4/20/2015 15:42:57 | 52.82 | 46.22 | 43 | 1.94 | 1.13 | 2.4 |
| 4/20/2015 15:43:08 | 53.15 | 46.55 | 35 | 1.95 | 1.11 | 1.9 |
| 4/20/2015 15:43:19 | 53.48 | 46.88 | 32 | 1.91 | 1.15 | 1.7 |

## E18 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 15:38:07

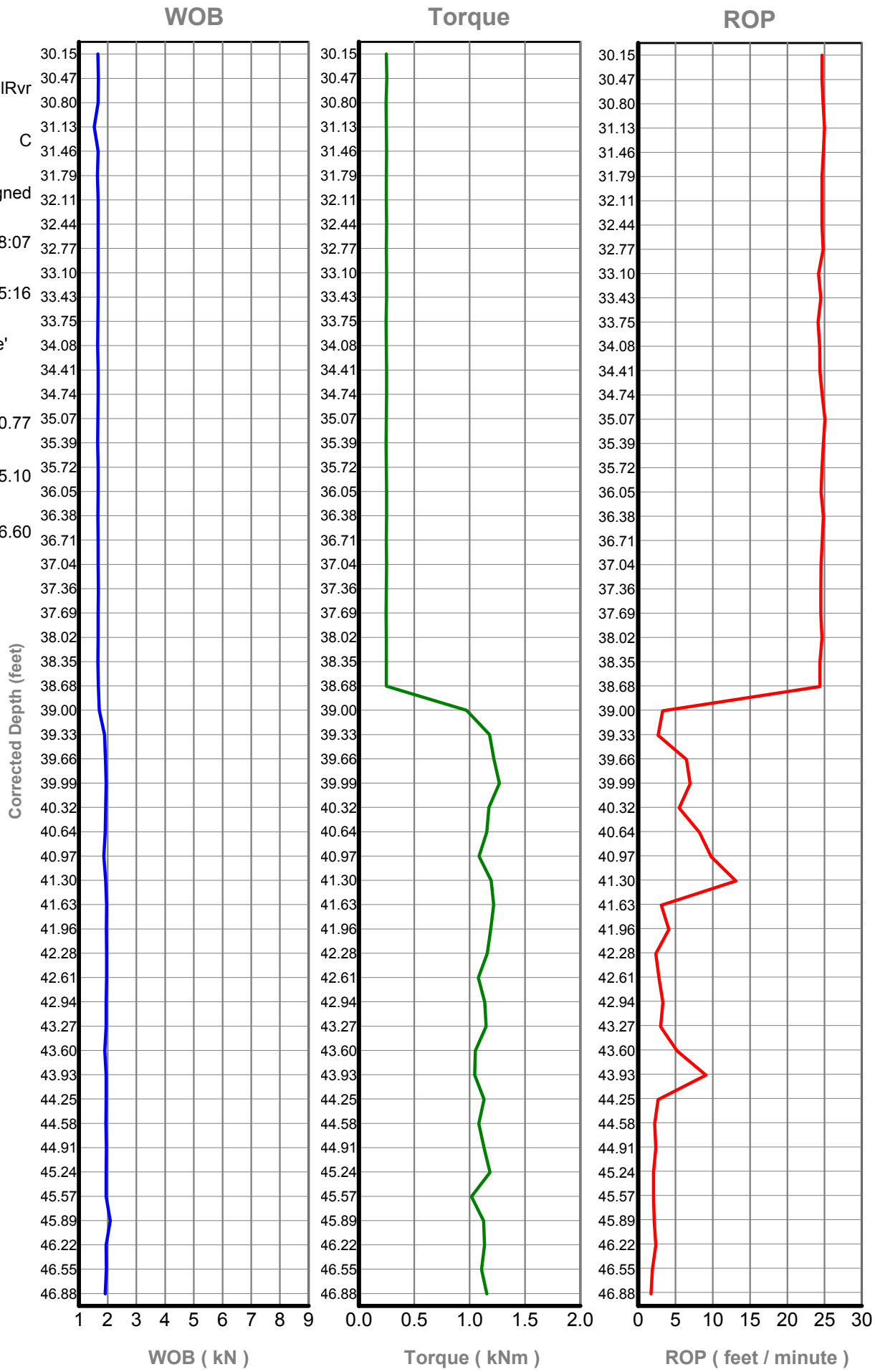
**End Date:**
4/20/2015 15:45:16

**Operator Note:**
'6.6 6.8 c Auto Complete'

**Northing:**
368,970.77

**Easting:**
253,285.10

**Tide (feet):**
6.60



## Hole: E180 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:03:59 | 31.82 | 30.32 | 1,020 | 0.28 | 0.31 | 55.8 |
| 4/21/2015 21:04:00 | 32.15 | 30.65 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/21/2015 21:04:00 | 32.48 | 30.98 | 1,028 | 0.29 | 0.31 | 56.2 |
| 4/21/2015 21:04:01 | 32.81 | 31.31 | 1,028 | 0.29 | 0.31 | 56.2 |
| 4/21/2015 21:04:01 | 33.14 | 31.64 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/21/2015 21:04:01 | 33.46 | 31.96 | 1,024 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 21:04:02 | 33.79 | 32.29 | 1,024 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 21:04:02 | 34.12 | 32.62 | 1,024 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 21:04:02 | 34.45 | 32.95 | 1,004 | 0.29 | 0.32 | 54.9 |
| 4/21/2015 21:04:03 | 34.78 | 33.28 | 1,004 | 0.29 | 0.32 | 54.9 |
| 4/21/2015 21:04:03 | 35.11 | 33.61 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 21:04:03 | 35.43 | 33.93 | 1,036 | 0.29 | 0.32 | 56.6 |
| 4/21/2015 21:04:04 | 35.76 | 34.26 | 1,036 | 0.29 | 0.32 | 56.6 |
| 4/21/2015 21:04:04 | 36.09 | 34.59 | 1,032 | 0.30 | 0.32 | 56.5 |
| 4/21/2015 21:04:04 | 36.42 | 34.92 | 1,032 | 0.30 | 0.31 | 56.5 |
| 4/21/2015 21:04:05 | 36.75 | 35.25 | 1,032 | 0.30 | 0.31 | 56.5 |
| 4/21/2015 21:04:05 | 37.07 | 35.57 | 1,039 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 21:04:05 | 37.40 | 35.90 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/21/2015 21:04:06 | 37.73 | 36.23 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/21/2015 21:04:06 | 38.06 | 36.56 | 1,042 | 0.30 | 0.31 | 57.0 |
| 4/21/2015 21:04:06 | 38.39 | 36.89 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/21/2015 21:04:07 | 38.71 | 37.21 | 1,012 | 0.30 | 0.32 | 55.3 |
| 4/21/2015 21:04:07 | 39.04 | 37.54 | 1,012 | 0.31 | 0.31 | 55.4 |
| 4/21/2015 21:04:07 | 39.37 | 37.87 | 1,012 | 0.30 | 0.33 | 55.4 |
| 4/21/2015 21:04:08 | 39.70 | 38.20 | 1,012 | 0.30 | 0.33 | 55.4 |
| 4/21/2015 21:04:08 | 40.03 | 38.53 | 1,013 | 0.30 | 0.32 | 55.4 |
| 4/21/2015 21:04:08 | 40.35 | 38.85 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/21/2015 21:04:09 | 40.68 | 39.18 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/21/2015 21:04:09 | 41.01 | 39.51 | 1,018 | 0.30 | 0.32 | 55.7 |
| 4/21/2015 21:04:10 | 41.34 | 39.84 | 1,026 | 0.29 | 0.32 | 56.1 |
| 4/21/2015 21:04:10 | 41.67 | 40.17 | 1,026 | 0.29 | 0.32 | 56.1 |
| 4/21/2015 21:04:10 | 41.99 | 40.49 | 1,035 | 0.30 | 0.31 | 56.6 |
| 4/21/2015 21:04:11 | 42.32 | 40.82 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/21/2015 21:04:11 | 42.65 | 41.15 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/21/2015 21:04:11 | 42.98 | 41.48 | 1,010 | 0.30 | 0.31 | 55.2 |
| 4/21/2015 21:04:12 | 43.31 | 41.81 | 1,014 | 0.30 | 0.32 | 55.4 |
| 4/21/2015 21:04:12 | 43.64 | 42.14 | 1,014 | 0.30 | 0.32 | 55.4 |
| 4/21/2015 21:04:12 | 43.96 | 42.46 | 1,023 | 0.30 | 0.32 | 56.0 |
| 4/21/2015 21:04:13 | 44.29 | 42.79 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/21/2015 21:04:13 | 44.62 | 43.12 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/21/2015 21:04:13 | 44.95 | 43.45 | 1,023 | 0.30 | 0.32 | 56.0 |
| 4/21/2015 21:04:14 | 45.28 | 43.78 | 1,034 | 0.30 | 0.32 | 56.6 |
| 4/21/2015 21:04:14 | 45.60 | 44.10 | 1,034 | 0.30 | 0.32 | 56.6 |
| 4/21/2015 21:04:14 | 45.93 | 44.43 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/21/2015 21:04:15 | 46.26 | 44.76 | 1,014 | 0.29 | 0.32 | 55.5 |
| 4/21/2015 21:04:15 | 46.59 | 45.09 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/21/2015 21:04:16 | 46.92 | 45.42 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/21/2015 21:04:16 | 47.24 | 45.74 | 1,015 | 0.30 | 0.31 | 55.5 |
| 4/21/2015 21:04:16 | 47.57 | 46.07 | 1,024 | 0.30 | 0.32 | 56.0 |
| 4/21/2015 21:04:17 | 47.90 | 46.40 | 1,024 | 0.30 | 0.32 | 56.0 |
| 4/21/2015 21:04:17 | 48.23 | 46.73 | 1,021 | 0.30 | 0.32 | 55.8 |
| 4/21/2015 21:04:17 | 48.56 | 47.06 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/21/2015 21:04:18 | 48.88 | 47.38 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/21/2015 21:04:18 | 49.21 | 47.71 | 1,006 | 0.29 | 0.31 | 55.0 |
| 4/21/2015 21:04:18 | 49.54 | 48.04 | 1,006 | 0.30 | 0.32 | 55.0 |
| 4/21/2015 21:04:19 | 49.87 | 48.37 | 1,006 | 0.30 | 0.32 | 55.0 |
| 4/21/2015 21:04:19 | 50.20 | 48.70 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/21/2015 21:04:19 | 50.53 | 49.03 | 1,013 | 0.33 | 0.31 | 55.4 |
| 4/21/2015 21:04:20 | 50.85 | 49.35 | 1,013 | 0.33 | 0.31 | 55.4 |
| 4/21/2015 21:04:20 | 51.18 | 49.68 | 1,014 | 0.33 | 0.32 | 55.4 |
| 4/21/2015 21:04:21 | 51.51 | 50.01 | 1,022 | 0.29 | 0.32 | 55.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:04:21 | 51.84 | 50.34 | 1,022 | 0.29 | 0.32 | 55.9 |
| 4/21/2015 | 21:04:22 | 52.17 | 50.67 | 903 | 0.28 | 0.40 | 49.4 |
| 4/21/2015 | 21:06:00 | 52.49 | 50.99 | 119 | 4.08 | 0.37 | 6.5 |
| 4/21/2015 | 21:06:04 | 52.82 | 51.32 | 85 | 3.51 | 0.38 | 4.6 |
| 4/21/2015 | 21:06:07 | 53.15 | 51.65 | 108 | 2.96 | 0.36 | 5.9 |
| 4/21/2015 | 21:06:08 | 53.48 | 51.98 | 154 | 3.75 | 0.36 | 8.4 |
| 4/21/2015 | 21:06:09 | 53.81 | 52.31 | 244 | 3.41 | 0.37 | 13.3 |
| 4/21/2015 | 21:06:15 | 54.13 | 52.63 | 0 | 2.50 | 0.35 | 0.0 |
| 4/21/2015 | 21:06:18 | 54.46 | 52.96 | 84 | 2.71 | 0.37 | 4.6 |
| 4/21/2015 | 21:06:33 | 54.79 | 53.29 | 49 | 3.94 | 0.36 | 2.7 |
| 4/21/2015 | 21:06:34 | 55.12 | 53.62 | 207 | 5.02 | 0.39 | 11.3 |
| 4/21/2015 | 21:06:37 | 55.45 | 53.95 | 167 | 5.58 | 0.40 | 9.1 |
| 4/21/2015 | 21:06:38 | 55.77 | 54.27 | 184 | 3.02 | 0.36 | 10.0 |
| 4/21/2015 | 21:06:41 | 56.10 | 54.60 | 0 | 2.76 | 0.36 | 0.0 |
| 4/21/2015 | 21:06:43 | 56.43 | 54.93 | 141 | 2.77 | 0.37 | 7.7 |
| 4/21/2015 | 21:06:44 | 56.76 | 55.26 | 236 | 4.61 | 0.39 | 12.9 |
| 4/21/2015 | 21:06:47 | 57.09 | 55.59 | 185 | 3.92 | 0.40 | 10.1 |
| 4/21/2015 | 21:06:49 | 57.41 | 55.91 | 154 | 4.29 | 0.39 | 8.4 |
| 4/21/2015 | 21:06:49 | 57.51 | 56.01 | 165 | 3.54 | 0.39 | 9.0 |

## E180 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:01:04

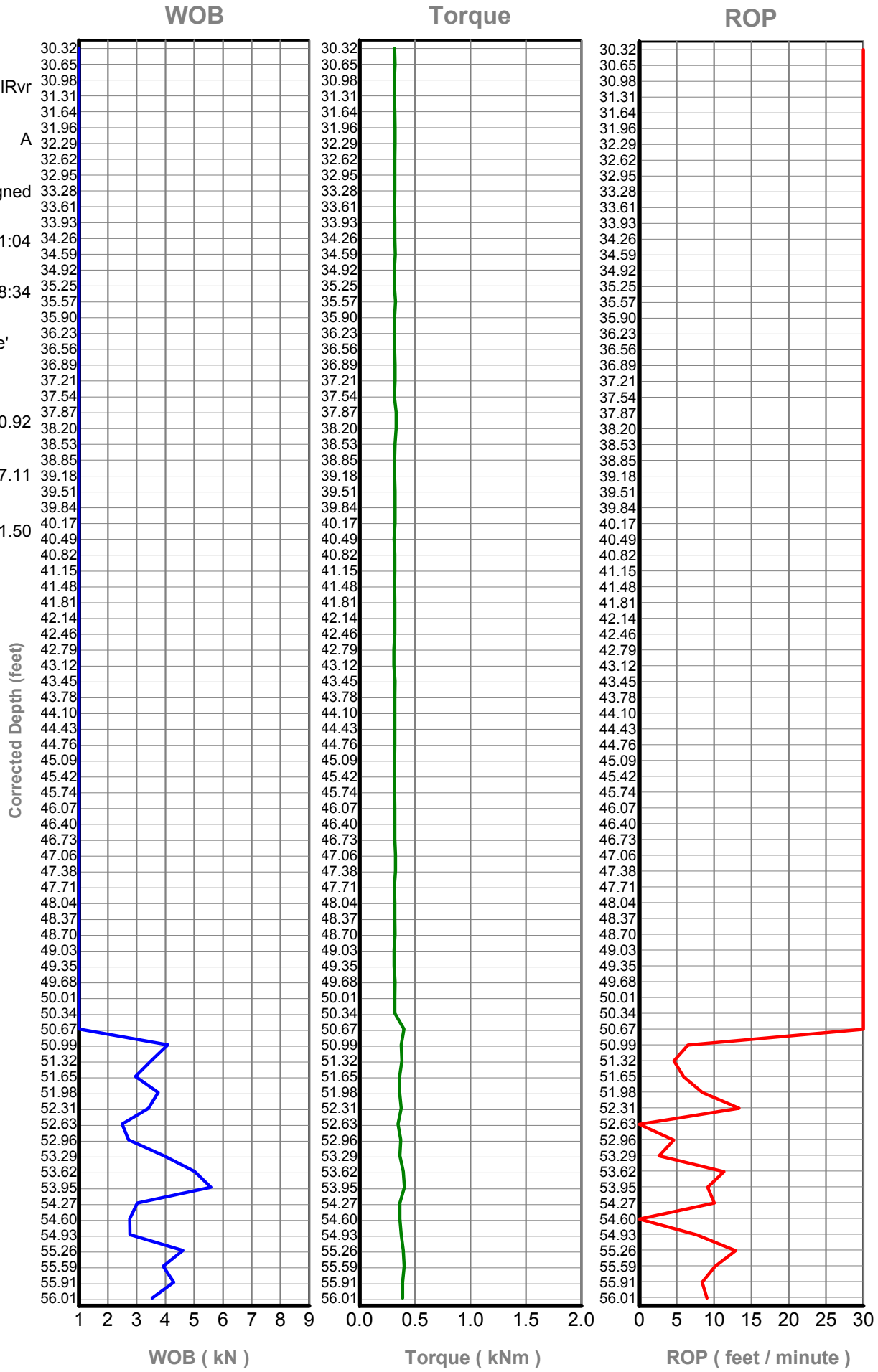
**End Date:**
4/21/2015 21:08:34

**Operator Note:**
'1.5 1.6 b Auto Complete'

**Northing:**
367,990.92

**Easting:**
253,017.11

**Tide (feet):**
1.50



## Hole: E181 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:11:02 | 31.50 | 30.10 | 1,546 | 3.26 | 0.30 | 84.5 |
| 4/21/2015 21:11:02 | 31.82 | 30.42 | 1,546 | 3.26 | 0.30 | 84.5 |
| 4/21/2015 21:11:03 | 32.15 | 30.75 | 1,552 | 3.24 | 0.30 | 84.9 |
| 4/21/2015 21:11:03 | 32.48 | 31.08 | 1,552 | 3.24 | 0.30 | 84.9 |
| 4/21/2015 21:11:03 | 32.81 | 31.41 | 1,520 | 3.22 | 0.30 | 83.1 |
| 4/21/2015 21:11:03 | 33.14 | 31.74 | 1,520 | 3.22 | 0.30 | 83.1 |
| 4/21/2015 21:11:04 | 33.46 | 32.06 | 1,520 | 3.26 | 0.30 | 83.1 |
| 4/21/2015 21:11:04 | 33.79 | 32.39 | 1,520 | 3.26 | 0.30 | 83.1 |
| 4/21/2015 21:11:04 | 34.12 | 32.72 | 1,520 | 3.26 | 0.30 | 83.1 |
| 4/21/2015 21:11:04 | 34.45 | 33.05 | 1,545 | 3.23 | 0.30 | 84.5 |
| 4/21/2015 21:11:04 | 34.78 | 33.38 | 1,545 | 3.23 | 0.30 | 84.5 |
| 4/21/2015 21:11:05 | 35.11 | 33.71 | 1,533 | 3.24 | 0.30 | 83.8 |
| 4/21/2015 21:11:05 | 35.43 | 34.03 | 1,533 | 3.24 | 0.30 | 83.8 |
| 4/21/2015 21:11:05 | 35.76 | 34.36 | 1,533 | 3.26 | 0.30 | 83.8 |
| 4/21/2015 21:11:05 | 36.09 | 34.69 | 1,533 | 3.26 | 0.30 | 83.8 |
| 4/21/2015 21:11:06 | 36.42 | 35.02 | 1,535 | 3.28 | 0.31 | 83.9 |
| 4/21/2015 21:11:06 | 36.75 | 35.35 | 1,535 | 3.28 | 0.31 | 83.9 |
| 4/21/2015 21:11:06 | 37.07 | 35.67 | 1,535 | 3.28 | 0.31 | 83.9 |
| 4/21/2015 21:11:06 | 37.40 | 36.00 | 1,568 | 3.26 | 0.30 | 85.7 |
| 4/21/2015 21:11:07 | 37.73 | 36.33 | 1,568 | 3.26 | 0.30 | 85.7 |
| 4/21/2015 21:11:07 | 38.06 | 36.66 | 1,547 | 3.25 | 0.30 | 84.6 |
| 4/21/2015 21:11:07 | 38.39 | 36.99 | 1,547 | 3.25 | 0.30 | 84.6 |
| 4/21/2015 21:11:07 | 38.71 | 37.31 | 1,547 | 3.24 | 0.30 | 84.6 |
| 4/21/2015 21:11:08 | 39.04 | 37.64 | 1,547 | 3.24 | 0.30 | 84.6 |
| 4/21/2015 21:11:08 | 39.37 | 37.97 | 1,562 | 3.24 | 0.30 | 85.4 |
| 4/21/2015 21:11:08 | 39.70 | 38.30 | 1,562 | 3.24 | 0.30 | 85.4 |
| 4/21/2015 21:11:08 | 40.03 | 38.63 | 1,562 | 3.24 | 0.30 | 85.4 |
| 4/21/2015 21:11:08 | 40.35 | 38.95 | 1,547 | 3.26 | 0.30 | 84.6 |
| 4/21/2015 21:11:09 | 40.68 | 39.28 | 1,547 | 3.26 | 0.30 | 84.6 |
| 4/21/2015 21:11:09 | 41.01 | 39.61 | 1,559 | 3.26 | 0.30 | 85.3 |
| 4/21/2015 21:11:09 | 41.34 | 39.94 | 1,559 | 3.26 | 0.30 | 85.3 |
| 4/21/2015 21:11:09 | 41.67 | 40.27 | 1,553 | 3.24 | 0.30 | 84.9 |
| 4/21/2015 21:11:10 | 41.99 | 40.59 | 1,553 | 3.24 | 0.30 | 84.9 |
| 4/21/2015 21:11:10 | 42.32 | 40.92 | 1,558 | 3.22 | 0.30 | 85.2 |
| 4/21/2015 21:11:10 | 42.65 | 41.25 | 1,558 | 3.22 | 0.30 | 85.2 |
| 4/21/2015 21:11:10 | 42.98 | 41.58 | 1,558 | 3.22 | 0.30 | 85.2 |
| 4/21/2015 21:11:10 | 43.31 | 41.91 | 1,552 | 3.26 | 0.30 | 84.9 |
| 4/21/2015 21:11:11 | 43.64 | 42.24 | 1,552 | 3.26 | 0.30 | 84.9 |
| 4/21/2015 21:11:11 | 43.96 | 42.56 | 1,552 | 3.27 | 0.30 | 84.9 |
| 4/21/2015 21:11:11 | 44.29 | 42.89 | 1,552 | 3.27 | 0.30 | 84.9 |
| 4/21/2015 21:11:11 | 44.62 | 43.22 | 1,540 | 3.26 | 0.30 | 84.2 |
| 4/21/2015 21:11:12 | 44.95 | 43.55 | 1,540 | 3.26 | 0.30 | 84.2 |
| 4/21/2015 21:11:12 | 45.28 | 43.88 | 1,540 | 3.26 | 0.30 | 84.2 |
| 4/21/2015 21:11:12 | 45.60 | 44.20 | 1,555 | 3.20 | 0.30 | 85.0 |
| 4/21/2015 21:11:12 | 45.93 | 44.53 | 1,555 | 3.20 | 0.30 | 85.0 |
| 4/21/2015 21:11:13 | 46.26 | 44.86 | 1,547 | 3.29 | 0.30 | 84.6 |
| 4/21/2015 21:11:13 | 46.59 | 45.19 | 1,547 | 3.29 | 0.30 | 84.6 |
| 4/21/2015 21:11:13 | 46.92 | 45.52 | 1,518 | 3.23 | 0.30 | 83.0 |
| 4/21/2015 21:11:13 | 47.24 | 45.84 | 1,518 | 3.23 | 0.30 | 83.0 |
| 4/21/2015 21:11:14 | 47.57 | 46.17 | 1,518 | 3.29 | 0.30 | 83.0 |
| 4/21/2015 21:11:14 | 47.90 | 46.50 | 1,518 | 3.29 | 0.30 | 83.0 |
| 4/21/2015 21:11:14 | 48.23 | 46.83 | 1,518 | 3.29 | 0.30 | 83.0 |
| 4/21/2015 21:11:43 | 48.56 | 47.16 | 0 | 1.68 | 1.22 | 0.0 |
| 4/21/2015 21:11:47 | 48.88 | 47.48 | 14 | 1.49 | 1.17 | 0.8 |
| 4/21/2015 21:11:49 | 49.21 | 47.81 | 189 | 1.47 | 1.01 | 10.3 |
| 4/21/2015 21:11:50 | 49.54 | 48.14 | 298 | 1.48 | 0.96 | 16.3 |
| 4/21/2015 21:11:54 | 49.87 | 48.47 | 27 | 2.35 | 0.93 | 1.5 |
| 4/21/2015 21:11:55 | 50.20 | 48.80 | 161 | 2.62 | 0.96 | 8.8 |
| 4/21/2015 21:11:55 | 50.53 | 49.13 | 294 | 1.74 | 0.93 | 16.1 |
| 4/21/2015 21:11:56 | 50.85 | 49.45 | 441 | 1.70 | 0.91 | 24.1 |
| 4/21/2015 21:11:59 | 51.18 | 49.78 | 182 | 1.44 | 0.92 | 9.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:12:17 | 51.51 | 50.11 | 24 | 1.04 | 0.91 | 1.3 |
| 4/21/2015 | 21:12:21 | 51.84 | 50.44 | 121 | 1.05 | 0.86 | 6.6 |
| 4/21/2015 | 21:12:23 | 52.17 | 50.77 | 116 | 1.04 | 0.85 | 6.3 |
| 4/21/2015 | 21:12:26 | 52.49 | 51.09 | 116 | 1.07 | 0.88 | 6.3 |
| 4/21/2015 | 21:12:30 | 52.82 | 51.42 | 109 | 1.08 | 0.81 | 5.9 |
| 4/21/2015 | 21:12:36 | 53.15 | 51.75 | 29 | 1.08 | 0.89 | 1.6 |
| 4/21/2015 | 21:12:40 | 53.48 | 52.08 | 110 | 1.07 | 0.88 | 6.0 |
| 4/21/2015 | 21:12:59 | 53.81 | 52.41 | 74 | 1.05 | 0.88 | 4.0 |
| 4/21/2015 | 21:13:02 | 54.13 | 52.73 | 110 | 1.08 | 0.88 | 6.0 |
| 4/21/2015 | 21:13:06 | 54.46 | 53.06 | 96 | 1.09 | 0.91 | 5.3 |
| 4/21/2015 | 21:13:10 | 54.79 | 53.39 | 66 | 1.02 | 0.88 | 3.6 |
| 4/21/2015 | 21:13:16 | 55.12 | 53.72 | 66 | 1.18 | 1.01 | 3.6 |
| 4/21/2015 | 21:13:21 | 55.45 | 54.05 | 13 | 1.50 | 1.06 | 0.7 |
| 4/21/2015 | 21:13:23 | 55.77 | 54.37 | 160 | 1.77 | 1.56 | 8.8 |
| 4/21/2015 | 21:13:25 | 56.10 | 54.70 | 125 | 1.77 | 1.51 | 6.8 |
| 4/21/2015 | 21:13:27 | 56.43 | 55.03 | 185 | 1.79 | 1.11 | 10.1 |
| 4/21/2015 | 21:13:28 | 56.60 | 55.20 | 168 | 1.77 | 1.07 | 9.2 |

## E181 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:09:21

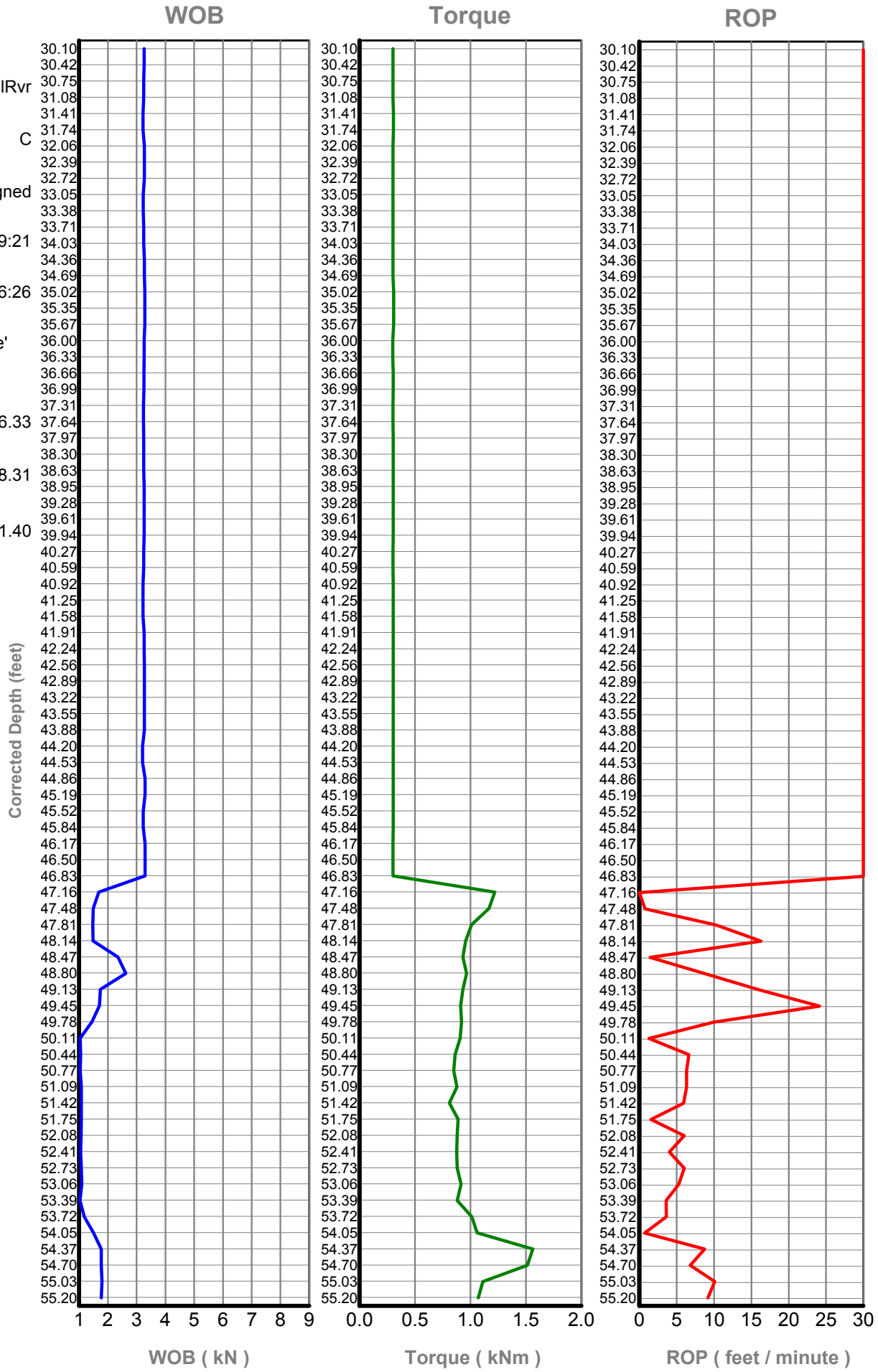
**End Date:**
4/21/2015 21:16:26

**Operator Note:**
'1.4 1.5 c Auto Complete'

**Northing:**
368,036.33

**Easting:**
253,068.31

**Tide (feet):**
1.40



## Hole: E182 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 21:03:32 | 31.82 | 30.32 | 1,461 | 3.28 | 0.15 | 79.9 |
| 4/21/2015 21:03:33 | 32.15 | 30.65 | 1,461 | 3.28 | 0.15 | 79.9 |
| 4/21/2015 21:03:33 | 32.48 | 30.98 | 1,461 | 3.28 | 0.15 | 79.9 |
| 4/21/2015 21:03:33 | 32.81 | 31.31 | 1,490 | 3.26 | 0.15 | 81.5 |
| 4/21/2015 21:03:33 | 33.14 | 31.64 | 1,490 | 3.26 | 0.15 | 81.5 |
| 4/21/2015 21:03:34 | 33.46 | 31.96 | 1,474 | 3.25 | 0.15 | 80.6 |
| 4/21/2015 21:03:34 | 33.79 | 32.29 | 1,474 | 3.25 | 0.15 | 80.6 |
| 4/21/2015 21:03:34 | 34.12 | 32.62 | 1,423 | 3.27 | 0.15 | 77.8 |
| 4/21/2015 21:03:34 | 34.45 | 32.95 | 1,423 | 3.27 | 0.15 | 77.8 |
| 4/21/2015 21:03:35 | 34.78 | 33.28 | 1,423 | 3.24 | 0.15 | 77.8 |
| 4/21/2015 21:03:35 | 35.11 | 33.61 | 1,423 | 3.24 | 0.15 | 77.8 |
| 4/21/2015 21:03:35 | 35.43 | 33.93 | 1,439 | 3.27 | 0.15 | 78.7 |
| 4/21/2015 21:03:35 | 35.76 | 34.26 | 1,439 | 3.27 | 0.15 | 78.7 |
| 4/21/2015 21:03:36 | 36.09 | 34.59 | 1,409 | 3.28 | 0.15 | 77.1 |
| 4/21/2015 21:03:36 | 36.42 | 34.92 | 1,409 | 3.28 | 0.15 | 77.1 |
| 4/21/2015 21:03:36 | 36.75 | 35.25 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/21/2015 21:03:36 | 37.07 | 35.57 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/21/2015 21:03:37 | 37.40 | 35.90 | 1,413 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 21:03:37 | 37.73 | 36.23 | 1,413 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 21:03:37 | 38.06 | 36.56 | 1,413 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 21:03:37 | 38.39 | 36.89 | 1,451 | 3.24 | 0.15 | 79.4 |
| 4/21/2015 21:03:37 | 38.71 | 37.21 | 1,451 | 3.24 | 0.15 | 79.4 |
| 4/21/2015 21:03:38 | 39.04 | 37.54 | 1,475 | 3.26 | 0.16 | 80.7 |
| 4/21/2015 21:03:38 | 39.37 | 37.87 | 1,475 | 3.26 | 0.16 | 80.7 |
| 4/21/2015 21:03:38 | 39.70 | 38.20 | 1,459 | 3.26 | 0.15 | 79.8 |
| 4/21/2015 21:03:38 | 40.03 | 38.53 | 1,459 | 3.26 | 0.15 | 79.8 |
| 4/21/2015 21:03:39 | 40.35 | 38.85 | 1,495 | 3.22 | 0.15 | 81.7 |
| 4/21/2015 21:03:39 | 40.68 | 39.18 | 1,495 | 3.22 | 0.15 | 81.7 |
| 4/21/2015 21:03:39 | 41.01 | 39.51 | 1,491 | 3.25 | 0.15 | 81.5 |
| 4/21/2015 21:03:40 | 41.34 | 39.84 | 1,491 | 3.25 | 0.15 | 81.5 |
| 4/21/2015 21:03:40 | 41.67 | 40.17 | 1,448 | 3.26 | 0.15 | 79.2 |
| 4/21/2015 21:03:40 | 41.99 | 40.49 | 1,448 | 3.26 | 0.15 | 79.2 |
| 4/21/2015 21:03:40 | 42.32 | 40.82 | 1,448 | 3.24 | 0.15 | 79.2 |
| 4/21/2015 21:03:41 | 42.65 | 41.15 | 1,448 | 3.24 | 0.15 | 79.2 |
| 4/21/2015 21:03:41 | 42.98 | 41.48 | 1,448 | 3.24 | 0.15 | 79.2 |
| 4/21/2015 21:03:41 | 43.31 | 41.81 | 1,442 | 3.25 | 0.15 | 78.8 |
| 4/21/2015 21:03:41 | 43.64 | 42.14 | 1,442 | 3.25 | 0.15 | 78.8 |
| 4/21/2015 21:03:41 | 43.96 | 42.46 | 1,442 | 3.26 | 0.15 | 78.8 |
| 4/21/2015 21:03:42 | 44.29 | 42.79 | 1,442 | 3.26 | 0.15 | 78.8 |
| 4/21/2015 21:03:42 | 44.62 | 43.12 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/21/2015 21:03:42 | 44.95 | 43.45 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/21/2015 21:03:42 | 45.28 | 43.78 | 1,445 | 3.23 | 0.15 | 79.0 |
| 4/21/2015 21:03:43 | 45.60 | 44.10 | 1,445 | 3.23 | 0.15 | 79.0 |
| 4/21/2015 21:03:43 | 45.93 | 44.43 | 1,435 | 3.20 | 0.15 | 78.5 |
| 4/21/2015 21:03:43 | 46.26 | 44.76 | 1,435 | 3.20 | 0.15 | 78.5 |
| 4/21/2015 21:03:44 | 46.59 | 45.09 | 1,435 | 3.26 | 0.15 | 78.5 |
| 4/21/2015 21:03:44 | 46.92 | 45.42 | 1,435 | 3.26 | 0.15 | 78.5 |
| 4/21/2015 21:03:44 | 47.24 | 45.74 | 1,437 | 3.26 | 0.15 | 78.6 |
| 4/21/2015 21:03:44 | 47.57 | 46.07 | 1,437 | 3.26 | 0.15 | 78.6 |
| 4/21/2015 21:03:45 | 47.90 | 46.40 | 1,437 | 3.26 | 0.15 | 78.6 |
| 4/21/2015 21:03:45 | 48.23 | 46.73 | 1,437 | 3.24 | 0.15 | 78.6 |
| 4/21/2015 21:03:45 | 48.56 | 47.06 | 1,437 | 3.24 | 0.15 | 78.6 |
| 4/21/2015 21:03:45 | 48.88 | 47.38 | 1,484 | 3.26 | 0.15 | 81.1 |
| 4/21/2015 21:03:45 | 49.21 | 47.71 | 1,484 | 3.26 | 0.15 | 81.1 |
| 4/21/2015 21:03:46 | 49.54 | 48.04 | 1,453 | 3.27 | 0.15 | 79.5 |
| 4/21/2015 21:03:46 | 49.87 | 48.37 | 1,453 | 3.27 | 0.15 | 79.5 |
| 4/21/2015 21:03:46 | 50.20 | 48.70 | 1,453 | 3.28 | 0.15 | 79.5 |
| 4/21/2015 21:03:47 | 50.53 | 49.03 | 1,453 | 3.28 | 0.15 | 79.5 |
| 4/21/2015 21:04:13 | 50.85 | 49.35 | 66 | 1.98 | 1.29 | 3.6 |
| 4/21/2015 21:04:14 | 51.18 | 49.68 | 168 | 1.84 | 1.08 | 9.2 |
| 4/21/2015 21:04:23 | 51.51 | 50.01 | 0 | 3.28 | 1.11 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 21:04:31 | 51.84 | 50.34 | 0 | 3.28 | 1.11 | 0.0 |
| 4/21/2015 | 21:04:23 | 52.17 | 50.67 | 172 | 3.29 | 1.07 | 9.4 |
| 4/21/2015 | 21:04:24 | 52.49 | 50.99 | 172 | 3.29 | 1.07 | 9.4 |
| 4/21/2015 | 21:04:24 | 52.82 | 51.32 | 413 | 1.97 | 1.30 | 22.6 |
| 4/21/2015 | 21:04:25 | 53.15 | 51.65 | 557 | 1.79 | 1.33 | 30.5 |
| 4/21/2015 | 21:04:27 | 53.48 | 51.98 | 284 | 1.90 | 1.19 | 15.5 |
| 4/21/2015 | 21:04:39 | 53.81 | 52.31 | 121 | 2.01 | 1.18 | 6.6 |
| 4/21/2015 | 21:04:44 | 54.13 | 52.63 | 69 | 2.00 | 1.17 | 3.8 |
| 4/21/2015 | 21:04:47 | 54.46 | 52.96 | 119 | 1.79 | 1.21 | 6.5 |
| 4/21/2015 | 21:04:48 | 54.79 | 53.29 | 208 | 1.80 | 1.17 | 11.4 |
| 4/21/2015 | 21:05:08 | 55.12 | 53.62 | 68 | 1.90 | 1.10 | 3.7 |
| 4/21/2015 | 21:05:12 | 55.45 | 53.95 | 96 | 2.18 | 1.19 | 5.3 |
| 4/21/2015 | 21:05:17 | 55.77 | 54.27 | 61 | 2.08 | 1.17 | 3.3 |
| 4/21/2015 | 21:05:24 | 56.10 | 54.60 | 55 | 2.12 | 1.13 | 3.0 |
| 4/21/2015 | 21:05:29 | 56.43 | 54.93 | 90 | 2.14 | 1.23 | 4.9 |
| 4/21/2015 | 21:05:32 | 56.60 | 55.10 | 46 | 2.11 | 1.20 | 2.5 |

## E182 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 21:02:17

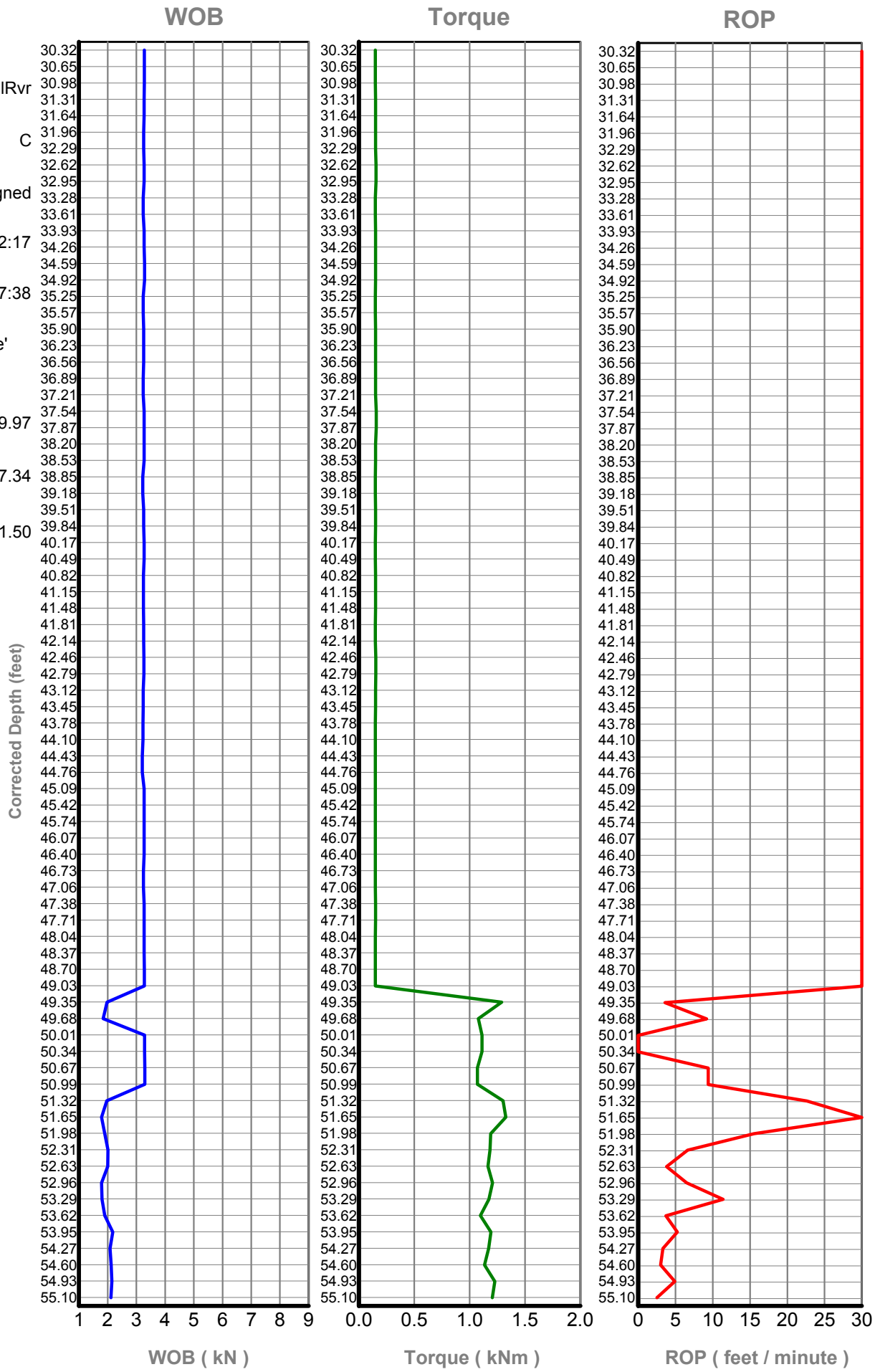
**End Date:**
4/21/2015 21:07:38

**Operator Note:**
'1.5 1.6 c Auto Complete'

**Northing:**
368,079.97

**Easting:**
253,117.34

**Tide (feet):**
1.50



## Hole: E183 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 11:37:24 | 31.82 | 30.12 | 1,054 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 11:37:24 | 32.15 | 30.45 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 11:37:25 | 32.48 | 30.78 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 11:37:25 | 32.81 | 31.11 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 11:37:25 | 33.14 | 31.44 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 11:37:25 | 33.46 | 31.76 | 1,041 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 11:37:26 | 33.79 | 32.09 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 11:37:26 | 34.12 | 32.42 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 11:37:27 | 34.45 | 32.75 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 11:37:27 | 34.78 | 33.08 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:37:27 | 35.11 | 33.41 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:37:27 | 35.43 | 33.73 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:28 | 35.76 | 34.06 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:37:28 | 36.09 | 34.39 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:37:28 | 36.42 | 34.72 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:29 | 36.75 | 35.05 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:29 | 37.07 | 35.37 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:29 | 37.40 | 35.70 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:30 | 37.73 | 36.03 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:30 | 38.06 | 36.36 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:30 | 38.39 | 36.69 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:37:31 | 38.71 | 37.01 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:37:31 | 39.04 | 37.34 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:37:31 | 39.37 | 37.67 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:37:32 | 39.70 | 38.00 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:32 | 40.03 | 38.33 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:32 | 40.35 | 38.65 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:33 | 40.68 | 38.98 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:33 | 41.01 | 39.31 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:34 | 41.34 | 39.64 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:37:34 | 41.67 | 39.97 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:37:35 | 41.99 | 40.29 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:37:35 | 42.32 | 40.62 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:37:35 | 42.65 | 40.95 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:36 | 42.98 | 41.28 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:36 | 43.31 | 41.61 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 11:37:36 | 43.64 | 41.94 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:37 | 43.96 | 42.26 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:37:37 | 44.29 | 42.59 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:37:37 | 44.62 | 42.92 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:37:38 | 44.95 | 43.25 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:37:38 | 45.28 | 43.58 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:37:38 | 45.60 | 43.90 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 11:37:49 | 45.93 | 44.23 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 11:37:50 | 46.26 | 44.56 | 150 | 1.73 | 0.21 | 8.2 |
| 4/21/2015 11:37:50 | 46.59 | 44.89 | 150 | 1.73 | 0.21 | 8.2 |
| 4/21/2015 11:37:50 | 46.92 | 45.22 | 350 | 1.73 | 0.21 | 19.2 |
| 4/21/2015 11:37:51 | 47.24 | 45.54 | 547 | 1.73 | 0.21 | 29.9 |
| 4/21/2015 11:37:51 | 47.57 | 45.87 | 547 | 1.73 | 0.21 | 29.9 |
| 4/21/2015 11:37:51 | 47.90 | 46.20 | 750 | 1.73 | 0.21 | 41.0 |
| 4/21/2015 11:37:52 | 48.23 | 46.53 | 947 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 11:37:52 | 48.56 | 46.86 | 947 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 11:37:52 | 48.88 | 47.18 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 11:37:53 | 49.21 | 47.51 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 11:38:09 | 49.54 | 47.84 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 11:38:10 | 49.87 | 48.17 | 121 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 11:38:10 | 50.20 | 48.50 | 292 | 1.73 | 0.21 | 16.0 |
| 4/21/2015 11:38:11 | 50.53 | 48.83 | 472 | 1.73 | 0.21 | 25.8 |
| 4/21/2015 11:38:11 | 50.85 | 49.15 | 472 | 1.73 | 0.21 | 25.8 |
| 4/21/2015 11:38:11 | 51.18 | 49.48 | 636 | 1.73 | 0.21 | 34.8 |
| 4/21/2015 11:38:12 | 51.51 | 49.81 | 791 | 1.73 | 0.21 | 43.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 11:38:12 | 51.84 | 50.14 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 11:38:13 | 52.17 | 50.47 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 11:38:13 | 52.49 | 50.79 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 11:38:13 | 52.82 | 51.12 | 879 | 1.73 | 0.21 | 48.0 |
| 4/21/2015 | 11:38:14 | 53.15 | 51.45 | 902 | 1.73 | 0.21 | 49.4 |
| 4/21/2015 | 11:38:14 | 53.48 | 51.78 | 916 | 1.73 | 0.21 | 50.1 |
| 4/21/2015 | 11:38:20 | 53.81 | 52.11 | 47 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 | 11:38:25 | 54.13 | 52.43 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 11:38:31 | 54.46 | 52.76 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 11:38:36 | 54.79 | 53.09 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 11:38:43 | 55.12 | 53.42 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 | 11:38:49 | 55.40 | 53.70 | 47 | 1.73 | 0.21 | 2.6 |

## E183 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 11:36:06

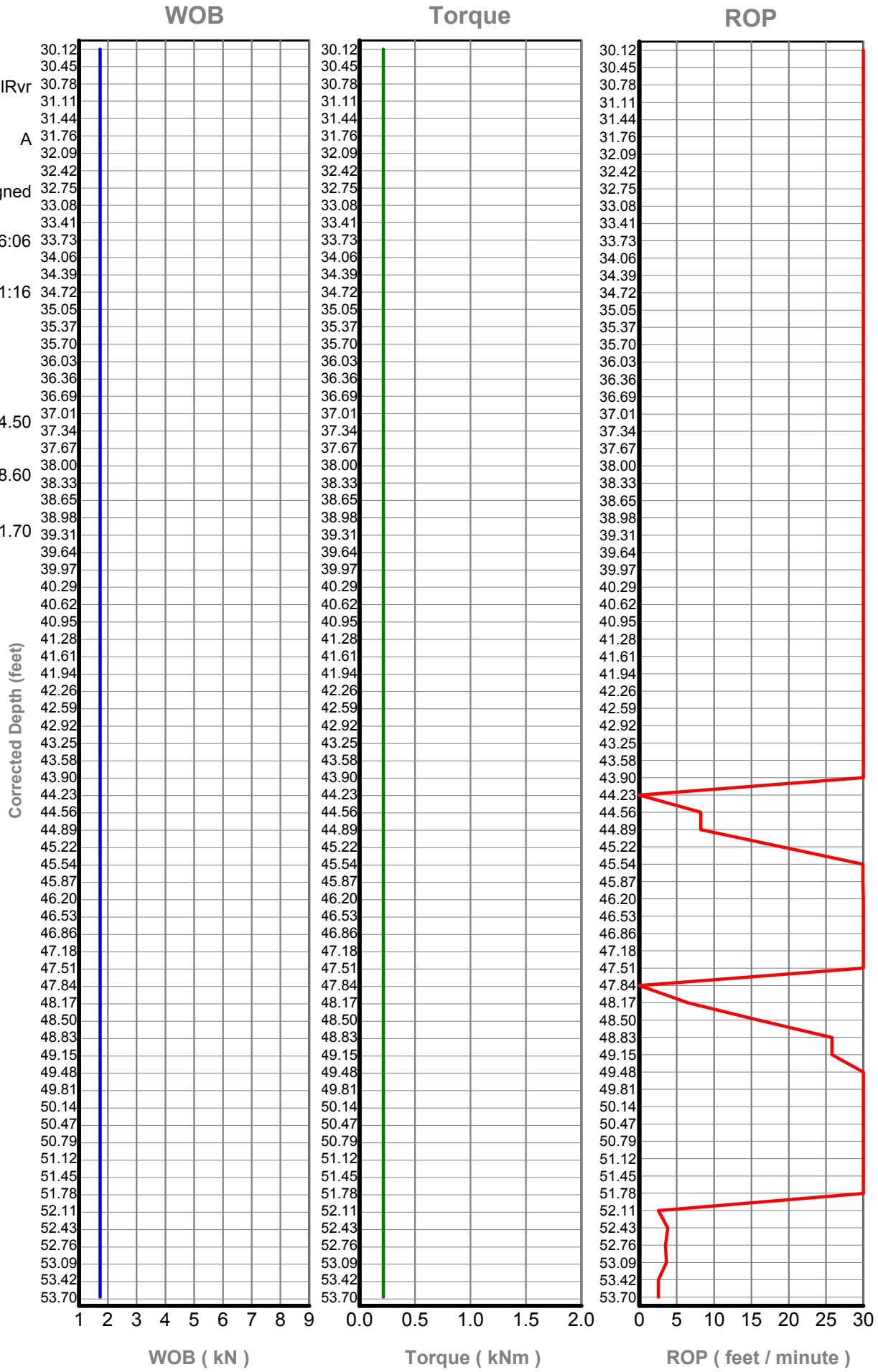
**End Date:**
4/21/2015 11:41:16

**Operator Note:**
'1.7 1.3 b Rock @ 54"

**Northing:**
368,144.50

**Easting:**
253,188.60

**Tide (feet):**
1.70



## Hole: E184 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 11:33:03 | 31.82 | 30.32 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:33:03 | 32.15 | 30.65 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:33:03 | 32.48 | 30.98 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:33:04 | 32.81 | 31.31 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 11:33:04 | 33.14 | 31.64 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 11:33:04 | 33.46 | 31.96 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 11:33:05 | 33.79 | 32.29 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 11:33:05 | 34.12 | 32.62 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 11:33:05 | 34.45 | 32.95 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:33:06 | 34.78 | 33.28 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:33:06 | 35.11 | 33.61 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:33:06 | 35.43 | 33.93 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 11:33:07 | 35.76 | 34.26 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 11:33:07 | 36.09 | 34.59 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 11:33:07 | 36.42 | 34.92 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 11:33:08 | 36.75 | 35.25 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 11:33:08 | 37.07 | 35.57 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 11:33:09 | 37.40 | 35.90 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 11:33:09 | 37.73 | 36.23 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:33:09 | 38.06 | 36.56 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:33:10 | 38.39 | 36.89 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:33:10 | 38.71 | 37.21 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:33:10 | 39.04 | 37.54 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 11:33:11 | 39.37 | 37.87 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 11:33:11 | 39.70 | 38.20 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 11:33:12 | 40.03 | 38.53 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:33:12 | 40.35 | 38.85 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:33:12 | 40.68 | 39.18 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:33:13 | 41.01 | 39.51 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:33:13 | 41.34 | 39.84 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:33:13 | 41.67 | 40.17 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:33:14 | 41.99 | 40.49 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:33:14 | 42.32 | 40.82 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 11:33:14 | 42.65 | 41.15 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:33:15 | 42.98 | 41.48 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:33:15 | 43.31 | 41.81 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 11:33:15 | 43.64 | 42.14 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 11:33:16 | 43.96 | 42.46 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 11:33:16 | 44.29 | 42.79 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 11:33:16 | 44.62 | 43.12 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 11:33:17 | 44.95 | 43.45 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 11:33:17 | 45.28 | 43.78 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 11:33:17 | 45.60 | 44.10 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 11:33:18 | 45.93 | 44.43 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 11:33:18 | 46.26 | 44.76 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 11:33:18 | 46.59 | 45.09 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 11:33:19 | 46.92 | 45.42 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 11:33:19 | 47.24 | 45.74 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 11:33:19 | 47.57 | 46.07 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 11:33:20 | 47.90 | 46.40 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 11:33:20 | 48.23 | 46.73 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 11:33:28 | 48.56 | 47.06 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 11:33:28 | 48.88 | 47.38 | 91 | 1.73 | 0.21 | 5.0 |
| 4/21/2015 11:33:29 | 49.21 | 47.71 | 270 | 1.73 | 0.21 | 14.8 |
| 4/21/2015 11:33:29 | 49.54 | 48.04 | 453 | 1.73 | 0.21 | 24.8 |
| 4/21/2015 11:33:30 | 49.87 | 48.37 | 453 | 1.73 | 0.21 | 24.8 |
| 4/21/2015 11:33:30 | 50.20 | 48.70 | 627 | 1.73 | 0.21 | 34.3 |
| 4/21/2015 11:33:30 | 50.53 | 49.03 | 804 | 1.73 | 0.21 | 44.0 |
| 4/21/2015 11:33:31 | 50.85 | 49.35 | 901 | 1.73 | 0.21 | 49.3 |
| 4/21/2015 11:33:31 | 51.18 | 49.68 | 901 | 1.73 | 0.21 | 49.3 |
| 4/21/2015 11:33:31 | 51.51 | 50.01 | 905 | 1.73 | 0.21 | 49.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 11:33:32 | 51.84 | 50.34 | 907 | 1.73 | 0.21 | 49.6 |
| 4/21/2015 | 11:33:32 | 52.17 | 50.67 | 888 | 1.73 | 0.21 | 48.6 |
| 4/21/2015 | 11:33:33 | 52.49 | 50.99 | 896 | 1.73 | 0.21 | 49.0 |
| 4/21/2015 | 11:33:34 | 52.82 | 51.32 | 896 | 1.73 | 0.21 | 49.0 |
| 4/21/2015 | 11:33:34 | 53.15 | 51.65 | 883 | 1.73 | 0.21 | 48.3 |
| 4/21/2015 | 11:33:34 | 53.48 | 51.98 | 888 | 1.73 | 0.21 | 48.6 |
| 4/21/2015 | 11:33:35 | 53.81 | 52.31 | 879 | 1.73 | 0.21 | 48.1 |
| 4/21/2015 | 11:33:35 | 54.13 | 52.63 | 879 | 1.73 | 0.21 | 48.1 |
| 4/21/2015 | 11:33:35 | 54.46 | 52.96 | 899 | 1.73 | 0.21 | 49.2 |
| 4/21/2015 | 11:33:36 | 54.79 | 53.29 | 885 | 1.73 | 0.21 | 48.4 |
| 4/21/2015 | 11:33:36 | 55.12 | 53.62 | 881 | 1.73 | 0.21 | 48.2 |
| 4/21/2015 | 11:33:37 | 55.45 | 53.95 | 807 | 1.73 | 0.21 | 44.2 |
| 4/21/2015 | 11:33:38 | 55.77 | 54.27 | 466 | 1.73 | 0.21 | 25.5 |
| 4/21/2015 | 11:33:39 | 56.10 | 54.60 | 340 | 1.73 | 0.21 | 18.6 |
| 4/21/2015 | 11:33:40 | 56.43 | 54.93 | 292 | 1.73 | 0.21 | 16.0 |
| 4/21/2015 | 11:33:40 | 56.67 | 55.17 | 368 | 1.73 | 0.21 | 20.1 |

## E184 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 11:31:53

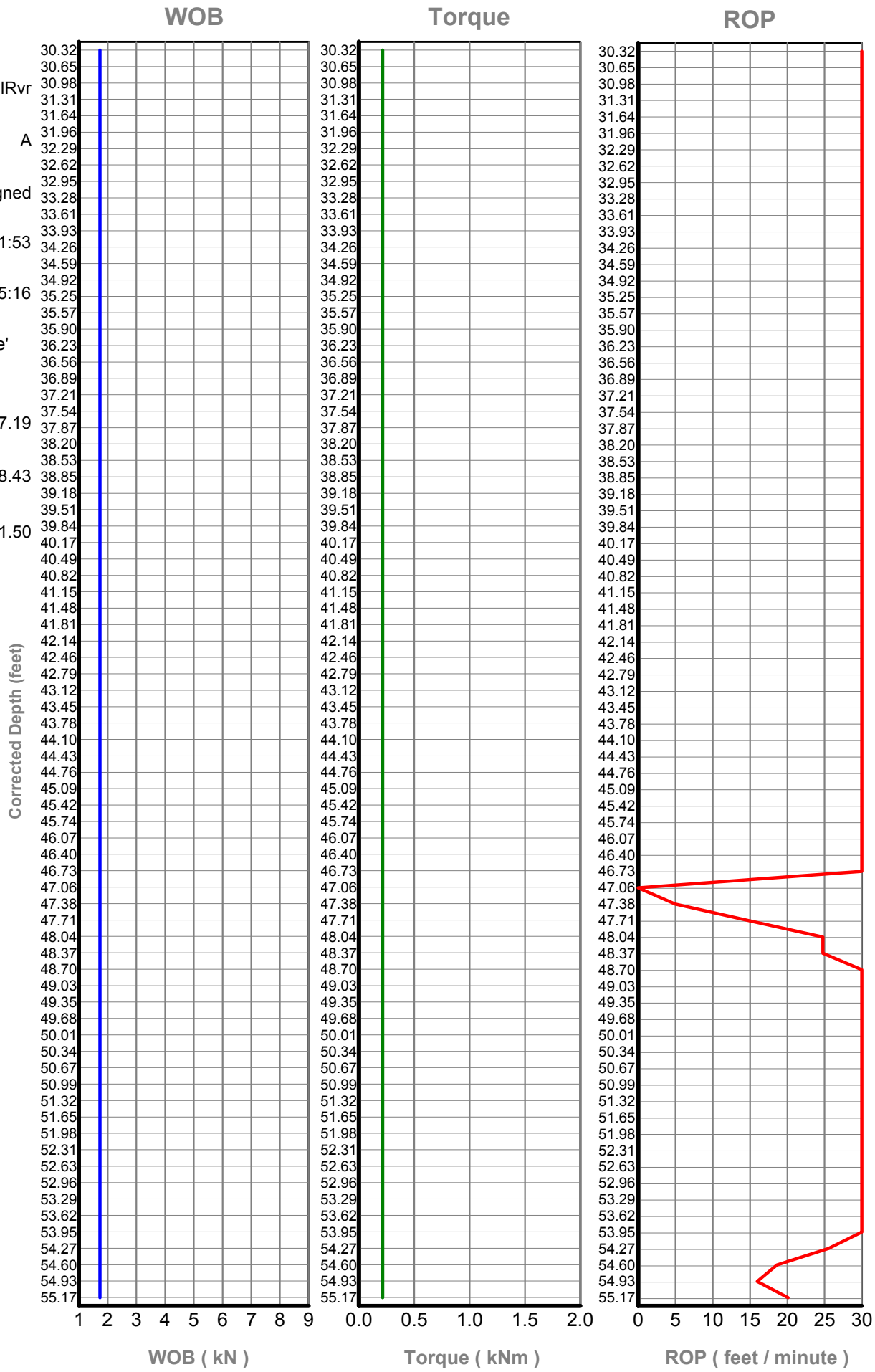
**End Date:**
4/21/2015 11:35:16

**Operator Note:**
'1.5 1.3 b Auto Complete'

**Northing:**
368,177.19

**Easting:**
253,238.43

**Tide (feet):**
1.50



## Hole: E185 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 11:28:14 | 31.50 | 30.20 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:28:14 | 31.82 | 30.52 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:14 | 32.15 | 30.85 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:15 | 32.48 | 31.18 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:15 | 32.81 | 31.51 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:15 | 33.14 | 31.84 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:16 | 33.46 | 32.16 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 11:28:16 | 33.79 | 32.49 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:28:16 | 34.12 | 32.82 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:28:17 | 34.45 | 33.15 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 11:28:17 | 34.78 | 33.48 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:17 | 35.11 | 33.81 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 11:28:18 | 35.43 | 34.13 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 11:28:18 | 35.76 | 34.46 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:18 | 36.09 | 34.79 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:28:19 | 36.42 | 35.12 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:28:19 | 36.75 | 35.45 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:19 | 37.07 | 35.77 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:28:20 | 37.40 | 36.10 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:28:20 | 37.73 | 36.43 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 11:28:20 | 38.06 | 36.76 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:21 | 38.39 | 37.09 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:21 | 38.71 | 37.41 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:22 | 39.04 | 37.74 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:22 | 39.37 | 38.07 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:22 | 39.70 | 38.40 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:23 | 40.03 | 38.73 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:23 | 40.35 | 39.05 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:23 | 40.68 | 39.38 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:24 | 41.01 | 39.71 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:24 | 41.34 | 40.04 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:24 | 41.67 | 40.37 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:25 | 41.99 | 40.69 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:25 | 42.32 | 41.02 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 11:28:25 | 42.65 | 41.35 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:26 | 42.98 | 41.68 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:26 | 43.31 | 42.01 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:26 | 43.64 | 42.34 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:27 | 43.96 | 42.66 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:27 | 44.29 | 42.99 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:27 | 44.62 | 43.32 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:28 | 44.95 | 43.65 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:28 | 45.28 | 43.98 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:29 | 45.60 | 44.30 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 11:28:29 | 45.93 | 44.63 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:29 | 46.26 | 44.96 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:29 | 46.59 | 45.29 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:30 | 46.92 | 45.62 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:28:30 | 47.24 | 45.94 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 11:28:30 | 47.57 | 46.27 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:31 | 47.90 | 46.60 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 11:28:31 | 48.23 | 46.93 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:32 | 48.56 | 47.26 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 11:28:32 | 48.88 | 47.58 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 11:28:33 | 49.21 | 47.91 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 11:28:33 | 49.54 | 48.24 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 11:28:33 | 49.87 | 48.57 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 11:28:34 | 50.20 | 48.90 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 11:28:34 | 50.53 | 49.23 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 11:28:35 | 50.85 | 49.55 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 11:28:35 | 51.18 | 49.88 | 945 | 1.73 | 0.21 | 51.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 11:28:35 | 51.51 | 50.21 | 939 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 | 11:28:36 | 51.84 | 50.54 | 933 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 | 11:28:36 | 52.17 | 50.87 | 933 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 | 11:28:36 | 52.49 | 51.19 | 927 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 | 11:28:37 | 52.82 | 51.52 | 916 | 1.73 | 0.21 | 50.1 |
| 4/21/2015 | 11:28:54 | 53.15 | 51.85 | 53 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 11:28:57 | 53.48 | 52.18 | 157 | 1.73 | 0.21 | 8.6 |
| 4/21/2015 | 11:28:58 | 53.81 | 52.51 | 183 | 1.73 | 0.21 | 10.0 |
| 4/21/2015 | 11:28:58 | 54.13 | 52.83 | 241 | 1.73 | 0.21 | 13.2 |
| 4/21/2015 | 11:28:59 | 54.46 | 53.16 | 413 | 1.73 | 0.21 | 22.6 |
| 4/21/2015 | 11:29:00 | 54.79 | 53.49 | 503 | 1.73 | 0.21 | 27.5 |
| 4/21/2015 | 11:29:00 | 55.12 | 53.82 | 569 | 1.73 | 0.21 | 31.1 |
| 4/21/2015 | 11:29:01 | 55.45 | 54.15 | 539 | 1.73 | 0.21 | 29.5 |
| 4/21/2015 | 11:29:26 | 55.77 | 54.47 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 11:29:28 | 56.10 | 54.80 | 168 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 | 11:29:30 | 56.27 | 54.97 | 95 | 1.73 | 0.21 | 5.2 |

## E185 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 11:25:53

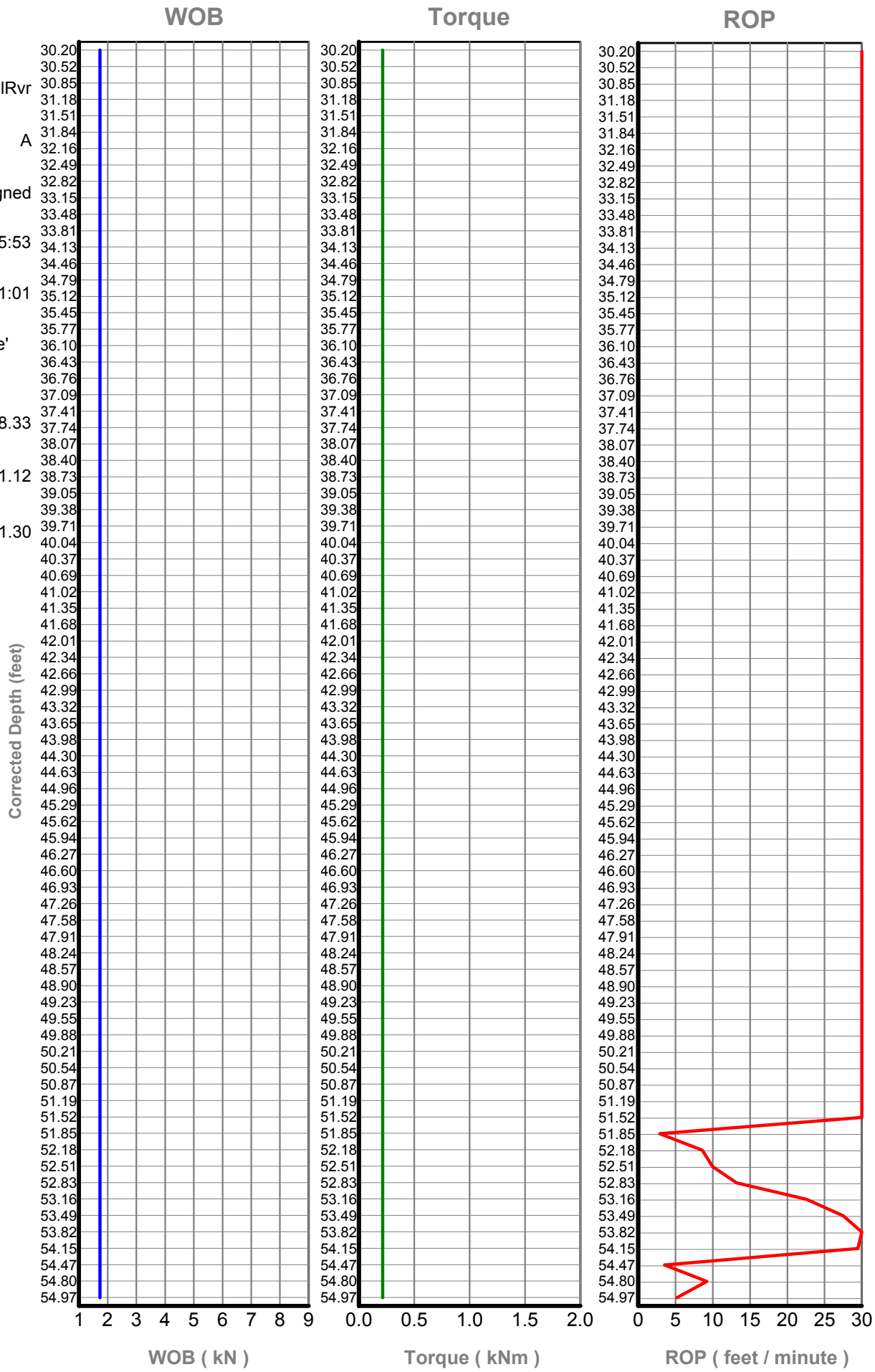
**End Date:**
4/21/2015 11:31:01

**Operator Note:**
'1.3 1.3 b Auto Complete'

**Northing:**
368,218.33

**Easting:**
253,301.12

**Tide (feet):**
1.30



## Hole: E186 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:38:54 | 31.50 | 30.30 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 21:38:54 | 31.82 | 30.62 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:38:54 | 32.15 | 30.95 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 21:38:55 | 32.48 | 31.28 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 21:38:55 | 32.81 | 31.61 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 21:38:55 | 33.14 | 31.94 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 21:38:56 | 33.46 | 32.26 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/20/2015 21:38:56 | 33.79 | 32.59 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 21:38:57 | 34.12 | 32.92 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 21:38:57 | 34.45 | 33.25 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 21:38:57 | 34.78 | 33.58 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 21:38:58 | 35.11 | 33.91 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:38:58 | 35.43 | 34.23 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:38:58 | 35.76 | 34.56 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:38:59 | 36.09 | 34.89 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 21:38:59 | 36.42 | 35.22 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/20/2015 21:38:59 | 36.75 | 35.55 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:39:00 | 37.07 | 35.87 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:39:00 | 37.40 | 36.20 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:39:00 | 37.73 | 36.53 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 21:39:01 | 38.06 | 36.86 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 21:39:01 | 38.39 | 37.19 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:39:01 | 38.71 | 37.51 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 21:39:02 | 39.04 | 37.84 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 21:39:02 | 39.37 | 38.17 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 21:39:02 | 39.70 | 38.50 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:03 | 40.03 | 38.83 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:03 | 40.35 | 39.15 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/20/2015 21:39:03 | 40.68 | 39.48 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 21:39:04 | 41.01 | 39.81 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 21:39:04 | 41.34 | 40.14 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 21:39:04 | 41.67 | 40.47 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 21:39:05 | 41.99 | 40.79 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 21:39:05 | 42.32 | 41.12 | 1,063 | 1.73 | 0.21 | 58.1 |
| 4/20/2015 21:39:05 | 42.65 | 41.45 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 21:39:06 | 42.98 | 41.78 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/20/2015 21:39:06 | 43.31 | 42.11 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/20/2015 21:39:06 | 43.64 | 42.44 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/20/2015 21:39:06 | 43.96 | 42.76 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/20/2015 21:39:07 | 44.29 | 43.09 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/20/2015 21:39:08 | 44.62 | 43.42 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/20/2015 21:39:08 | 44.95 | 43.75 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/20/2015 21:39:08 | 45.28 | 44.08 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 21:39:09 | 45.60 | 44.40 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 21:39:09 | 45.93 | 44.73 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 21:39:09 | 46.26 | 45.06 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 21:39:10 | 46.59 | 45.39 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 21:39:10 | 46.92 | 45.72 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:10 | 47.24 | 46.04 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 21:39:11 | 47.57 | 46.37 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 21:39:11 | 47.90 | 46.70 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:11 | 48.23 | 47.03 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:11 | 48.56 | 47.36 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/20/2015 21:39:12 | 48.88 | 47.68 | 1,063 | 1.73 | 0.21 | 58.1 |
| 4/20/2015 21:39:12 | 49.21 | 48.01 | 1,063 | 1.73 | 0.21 | 58.1 |
| 4/20/2015 21:39:31 | 49.54 | 48.34 | 78 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 21:39:32 | 49.87 | 48.67 | 98 | 1.73 | 0.21 | 5.4 |
| 4/20/2015 21:39:33 | 50.20 | 49.00 | 276 | 1.73 | 0.21 | 15.1 |
| 4/20/2015 21:39:38 | 50.53 | 49.33 | 23 | 1.73 | 0.21 | 1.3 |
| 4/20/2015 21:39:39 | 50.85 | 49.65 | 96 | 1.73 | 0.21 | 5.2 |
| 4/20/2015 21:39:40 | 51.18 | 49.98 | 178 | 1.73 | 0.21 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 21:39:44 | 51.51 | 50.31 | 106 | 1.73 | 0.21 | 5.8 |
| 4/20/2015 | 21:39:48 | 51.84 | 50.64 | 89 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 | 21:39:55 | 52.17 | 50.97 | 105 | 1.73 | 0.21 | 5.8 |
| 4/20/2015 | 21:39:57 | 52.49 | 51.29 | 148 | 1.73 | 0.21 | 8.1 |
| 4/20/2015 | 21:40:02 | 52.82 | 51.62 | 52 | 1.73 | 0.21 | 2.8 |
| 4/20/2015 | 21:40:06 | 53.15 | 51.95 | 90 | 1.73 | 0.21 | 4.9 |
| 4/20/2015 | 21:40:10 | 53.48 | 52.28 | 76 | 1.73 | 0.21 | 4.2 |
| 4/20/2015 | 21:40:14 | 53.81 | 52.61 | 91 | 1.73 | 0.21 | 5.0 |
| 4/20/2015 | 21:40:18 | 54.13 | 52.93 | 108 | 1.73 | 0.21 | 5.9 |
| 4/20/2015 | 21:40:22 | 54.46 | 53.26 | 72 | 1.73 | 0.21 | 3.9 |
| 4/20/2015 | 21:40:28 | 54.79 | 53.59 | 61 | 1.73 | 0.21 | 3.3 |
| 4/20/2015 | 21:40:35 | 55.12 | 53.92 | 61 | 1.73 | 0.21 | 3.3 |
| 4/20/2015 | 21:40:46 | 55.45 | 54.25 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 | 21:40:52 | 55.77 | 54.57 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 | 21:40:59 | 56.10 | 54.90 | 52 | 1.73 | 0.21 | 2.8 |
| 4/20/2015 | 21:41:02 | 56.28 | 55.08 | 46 | 1.73 | 0.21 | 2.5 |

## E186 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 21:34:47

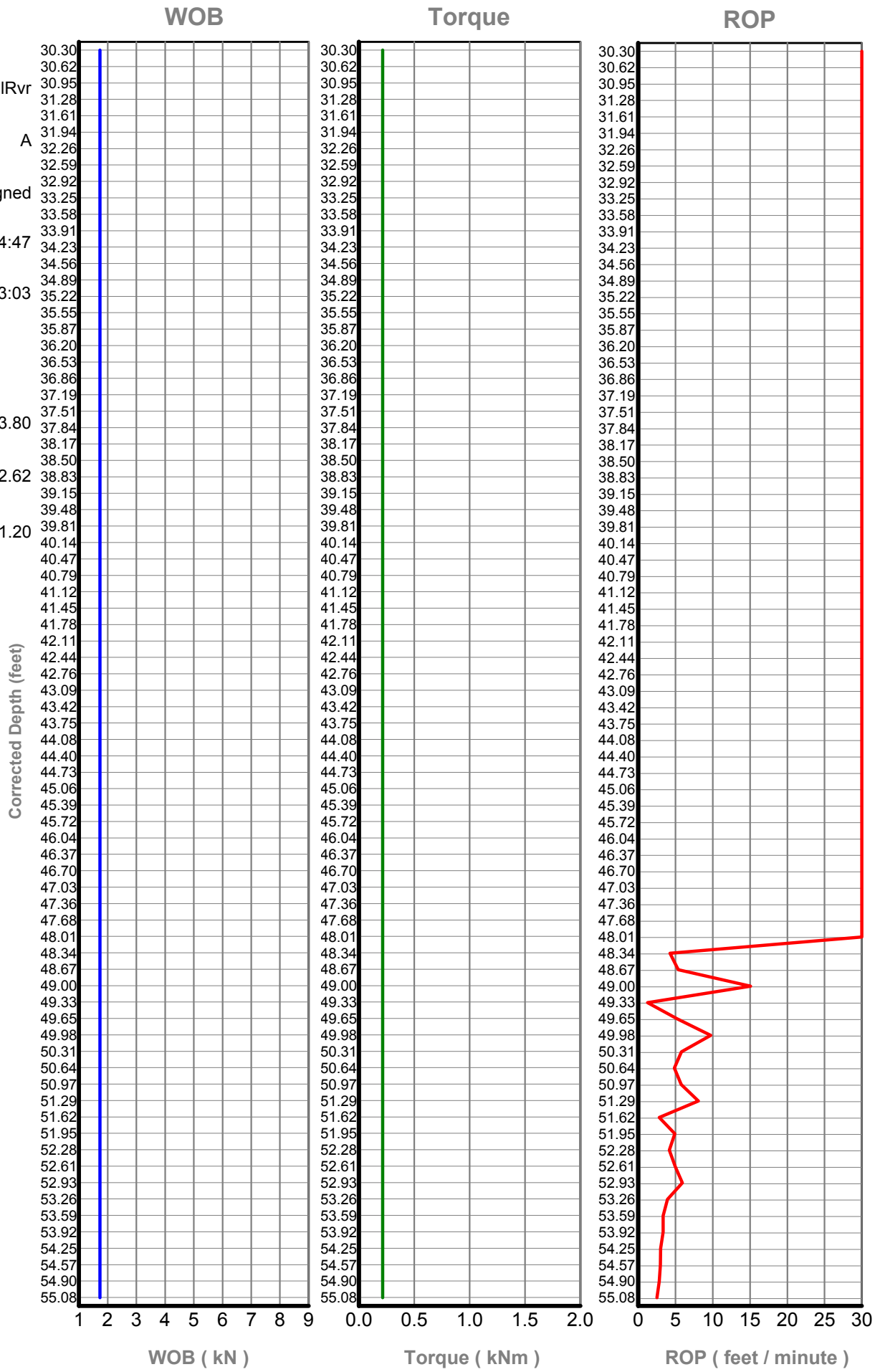
**End Date:**
4/20/2015 21:43:03

**Operator Note:**
'1.2 2.3 b Auto Complete'

**Northing:**
368,273.80

**Easting:**
253,362.62

**Tide (feet):**
1.20



## Hole: E187 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:51:00 | 31.50 | 30.30 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 21:51:01 | 31.82 | 30.62 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 21:51:01 | 32.15 | 30.95 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 21:51:01 | 32.48 | 31.28 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/20/2015 21:51:02 | 32.81 | 31.61 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:02 | 33.14 | 31.94 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:02 | 33.46 | 32.26 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:03 | 33.79 | 32.59 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/20/2015 21:51:03 | 34.12 | 32.92 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/20/2015 21:51:03 | 34.45 | 33.25 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:51:04 | 34.78 | 33.58 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:51:04 | 35.11 | 33.91 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:51:04 | 35.43 | 34.23 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:05 | 35.76 | 34.56 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:51:05 | 36.09 | 34.89 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:51:05 | 36.42 | 35.22 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:06 | 36.75 | 35.55 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:06 | 37.07 | 35.87 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:06 | 37.40 | 36.20 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:07 | 37.73 | 36.53 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:07 | 38.06 | 36.86 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:07 | 38.39 | 37.19 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:08 | 38.71 | 37.51 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 21:51:08 | 39.04 | 37.84 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 21:51:08 | 39.37 | 38.17 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:09 | 39.70 | 38.50 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 21:51:09 | 40.03 | 38.83 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 21:51:09 | 40.35 | 39.15 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:10 | 40.68 | 39.48 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:10 | 41.01 | 39.81 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:10 | 41.34 | 40.14 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:51:11 | 41.67 | 40.47 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:12 | 41.99 | 40.79 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:12 | 42.32 | 41.12 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:12 | 42.65 | 41.45 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:13 | 42.98 | 41.78 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:13 | 43.31 | 42.11 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/20/2015 21:51:13 | 43.64 | 42.44 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:14 | 43.96 | 42.76 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:14 | 44.29 | 43.09 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:14 | 44.62 | 43.42 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:51:15 | 44.95 | 43.75 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:51:15 | 45.28 | 44.08 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:51:15 | 45.60 | 44.40 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:16 | 45.93 | 44.73 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:16 | 46.26 | 45.06 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:16 | 46.59 | 45.39 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:51:17 | 46.92 | 45.72 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:17 | 47.24 | 46.04 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:17 | 47.57 | 46.37 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:18 | 47.90 | 46.70 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:18 | 48.23 | 47.03 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:18 | 48.56 | 47.36 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:51:19 | 48.88 | 47.68 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:19 | 49.21 | 48.01 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:51:19 | 49.54 | 48.34 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 21:51:20 | 49.87 | 48.67 | 997 | 1.73 | 0.21 | 54.5 |
| 4/20/2015 21:51:20 | 50.20 | 49.00 | 956 | 1.73 | 0.21 | 52.3 |
| 4/20/2015 21:51:21 | 50.53 | 49.33 | 893 | 1.73 | 0.21 | 48.8 |
| 4/20/2015 21:51:42 | 50.85 | 49.65 | 19 | 1.73 | 0.21 | 1.1 |
| 4/20/2015 21:51:48 | 51.18 | 49.98 | 47 | 1.73 | 0.21 | 2.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/20/2015 21:51:59 | 51.51 | 50.31 | 39 | 1.73 | 0.21 | 2.1 |
| 4/20/2015 21:52:02 | 51.84 | 50.64 | 132 | 1.73 | 0.21 | 7.2 |
| 4/20/2015 21:52:06 | 52.17 | 50.97 | 78 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 21:52:10 | 52.49 | 51.29 | 102 | 1.73 | 0.21 | 5.6 |
| 4/20/2015 21:52:14 | 52.82 | 51.62 | 97 | 1.73 | 0.21 | 5.3 |
| 4/20/2015 21:52:17 | 53.15 | 51.95 | 95 | 1.73 | 0.21 | 5.2 |
| 4/20/2015 21:52:23 | 53.48 | 52.28 | 61 | 1.73 | 0.21 | 3.3 |
| 4/20/2015 21:52:28 | 53.81 | 52.61 | 71 | 1.73 | 0.21 | 3.9 |
| 4/20/2015 21:52:33 | 54.13 | 52.93 | 85 | 1.73 | 0.21 | 4.6 |
| 4/20/2015 21:52:37 | 54.46 | 53.26 | 84 | 1.73 | 0.21 | 4.6 |
| 4/20/2015 21:52:40 | 54.79 | 53.59 | 93 | 1.73 | 0.21 | 5.1 |
| 4/20/2015 21:52:45 | 55.12 | 53.92 | 87 | 1.73 | 0.21 | 4.8 |
| 4/20/2015 21:52:49 | 55.45 | 54.25 | 82 | 1.73 | 0.21 | 4.5 |
| 4/20/2015 21:52:54 | 55.77 | 54.57 | 79 | 1.73 | 0.21 | 4.3 |
| 4/20/2015 21:52:59 | 56.10 | 54.90 | 71 | 1.73 | 0.21 | 3.9 |
| 4/20/2015 21:53:00 | 56.15 | 54.95 | 69 | 1.73 | 0.21 | 3.8 |

## E187 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/20/2015 21:49:43

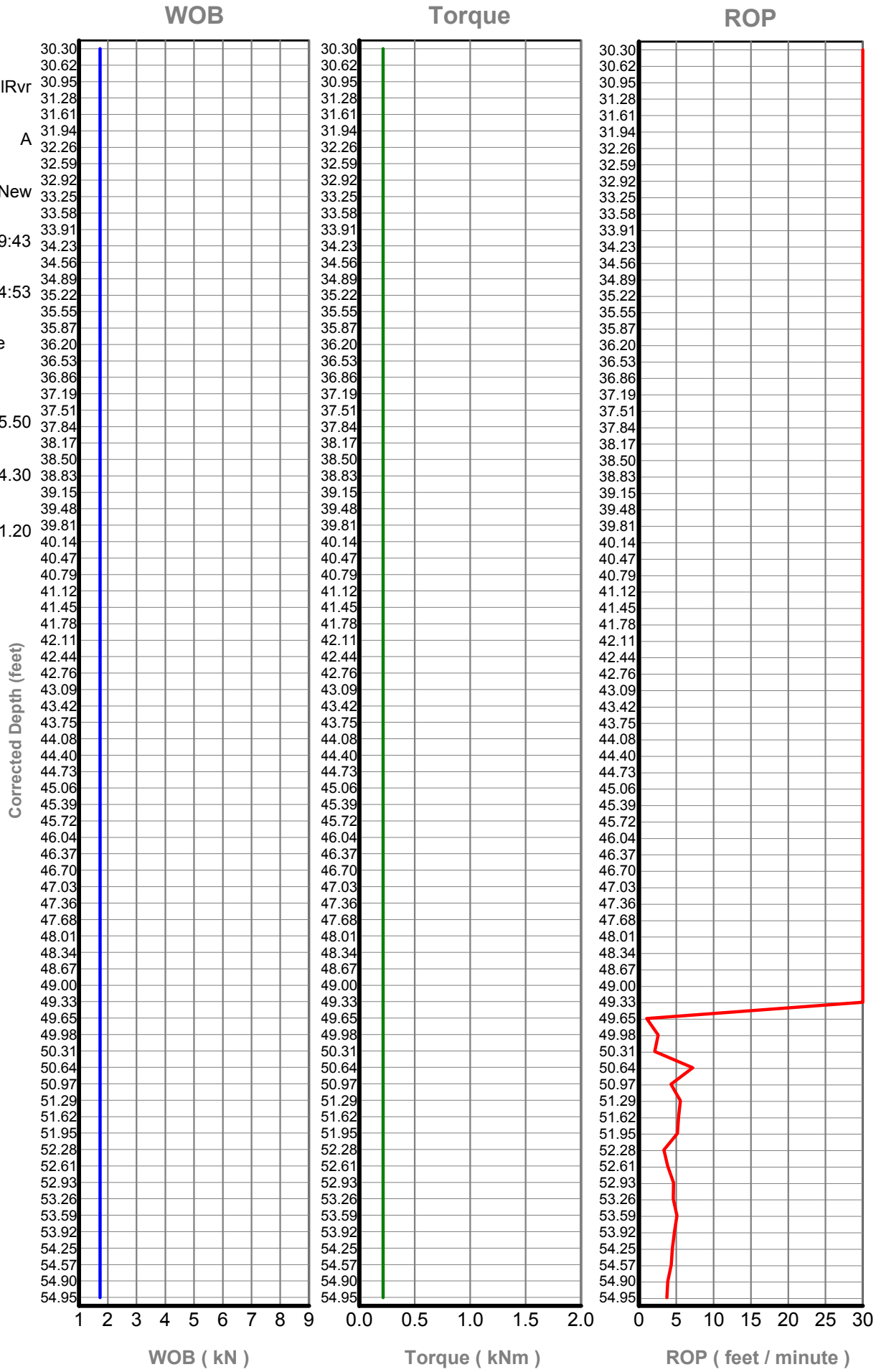
**End Date:**
4/20/2015 21:54:53

**Operator Note:**
'1.2 1.2 b Auto Complete

**Northing:**
368,315.50

**Easting:**
253,414.30

**Tide (feet):**
1.20



## Hole: E188 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:40:29 | 31.50 | 30.30 | 374 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:40:30 | 31.82 | 30.62 | 367 | 1.46 | 0.13 | 20.1 |
| 4/20/2015 21:40:31 | 32.15 | 30.95 | 373 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:40:32 | 32.48 | 31.28 | 364 | 1.49 | 0.13 | 19.9 |
| 4/20/2015 21:40:33 | 32.81 | 31.61 | 375 | 1.42 | 0.13 | 20.5 |
| 4/20/2015 21:40:34 | 33.14 | 31.94 | 370 | 1.49 | 0.13 | 20.3 |
| 4/20/2015 21:40:35 | 33.46 | 32.26 | 370 | 1.42 | 0.13 | 20.3 |
| 4/20/2015 21:40:36 | 33.79 | 32.59 | 371 | 1.48 | 0.13 | 20.3 |
| 4/20/2015 21:40:37 | 34.12 | 32.92 | 364 | 1.47 | 0.13 | 19.9 |
| 4/20/2015 21:40:38 | 34.45 | 33.25 | 372 | 1.43 | 0.13 | 20.4 |
| 4/20/2015 21:40:39 | 34.78 | 33.58 | 368 | 1.38 | 0.13 | 20.1 |
| 4/20/2015 21:40:39 | 35.11 | 33.91 | 370 | 1.49 | 0.13 | 20.2 |
| 4/20/2015 21:40:41 | 35.43 | 34.23 | 373 | 1.49 | 0.13 | 20.4 |
| 4/20/2015 21:40:42 | 35.76 | 34.56 | 373 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:40:43 | 36.09 | 34.89 | 373 | 1.49 | 0.13 | 20.4 |
| 4/20/2015 21:40:44 | 36.42 | 35.22 | 372 | 1.50 | 0.13 | 20.4 |
| 4/20/2015 21:40:45 | 36.75 | 35.55 | 367 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 21:40:46 | 37.07 | 35.87 | 371 | 1.48 | 0.13 | 20.3 |
| 4/20/2015 21:40:46 | 37.40 | 36.20 | 368 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 21:40:47 | 37.73 | 36.53 | 368 | 1.43 | 0.13 | 20.1 |
| 4/20/2015 21:40:48 | 38.06 | 36.86 | 367 | 1.51 | 0.13 | 20.1 |
| 4/20/2015 21:40:49 | 38.39 | 37.19 | 370 | 1.46 | 0.13 | 20.2 |
| 4/20/2015 21:40:50 | 38.71 | 37.51 | 370 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 21:40:52 | 39.04 | 37.84 | 368 | 1.47 | 0.13 | 20.1 |
| 4/20/2015 21:40:52 | 39.37 | 38.17 | 373 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:40:53 | 39.70 | 38.50 | 370 | 1.46 | 0.13 | 20.2 |
| 4/20/2015 21:40:54 | 40.03 | 38.83 | 372 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:40:55 | 40.35 | 39.15 | 369 | 1.48 | 0.13 | 20.2 |
| 4/20/2015 21:40:56 | 40.68 | 39.48 | 373 | 1.43 | 0.13 | 20.4 |
| 4/20/2015 21:40:57 | 41.01 | 39.81 | 371 | 1.45 | 0.13 | 20.3 |
| 4/20/2015 21:40:58 | 41.34 | 40.14 | 375 | 1.41 | 0.13 | 20.5 |
| 4/20/2015 21:40:59 | 41.67 | 40.47 | 370 | 1.44 | 0.13 | 20.2 |
| 4/20/2015 21:41:00 | 41.99 | 40.79 | 368 | 1.45 | 0.14 | 20.1 |
| 4/20/2015 21:41:01 | 42.32 | 41.12 | 370 | 1.45 | 0.13 | 20.2 |
| 4/20/2015 21:41:02 | 42.65 | 41.45 | 368 | 1.46 | 0.13 | 20.1 |
| 4/20/2015 21:41:03 | 42.98 | 41.78 | 367 | 1.45 | 0.13 | 20.1 |
| 4/20/2015 21:41:04 | 43.31 | 42.11 | 365 | 1.48 | 0.13 | 20.0 |
| 4/20/2015 21:41:05 | 43.64 | 42.44 | 367 | 1.44 | 0.13 | 20.1 |
| 4/20/2015 21:41:06 | 43.96 | 42.76 | 370 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 21:41:07 | 44.29 | 43.09 | 372 | 1.47 | 0.13 | 20.4 |
| 4/20/2015 21:41:08 | 44.62 | 43.42 | 370 | 1.47 | 0.13 | 20.2 |
| 4/20/2015 21:41:09 | 44.95 | 43.75 | 370 | 1.46 | 0.13 | 20.2 |
| 4/20/2015 21:41:10 | 45.28 | 44.08 | 367 | 1.49 | 0.13 | 20.1 |
| 4/20/2015 21:41:11 | 45.60 | 44.40 | 367 | 1.49 | 0.13 | 20.1 |
| 4/20/2015 21:41:12 | 45.93 | 44.73 | 367 | 1.46 | 0.13 | 20.1 |
| 4/20/2015 21:41:13 | 46.26 | 45.06 | 367 | 1.49 | 0.13 | 20.1 |
| 4/20/2015 21:41:14 | 46.59 | 45.39 | 364 | 1.49 | 0.05 | 19.9 |
| 4/20/2015 21:41:15 | 46.92 | 45.72 | 362 | 1.46 | 0.13 | 19.8 |
| 4/20/2015 21:41:16 | 47.24 | 46.04 | 367 | 1.45 | 0.13 | 20.1 |
| 4/20/2015 21:41:17 | 47.57 | 46.37 | 361 | 1.47 | 0.13 | 19.7 |
| 4/20/2015 21:41:18 | 47.90 | 46.70 | 366 | 1.49 | 0.13 | 20.0 |
| 4/20/2015 21:41:19 | 48.23 | 47.03 | 354 | 1.53 | 0.13 | 19.4 |
| 4/20/2015 21:41:49 | 48.56 | 47.36 | 53 | 1.51 | 0.90 | 2.9 |
| 4/20/2015 21:41:51 | 48.88 | 47.68 | 132 | 1.53 | 0.97 | 7.2 |
| 4/20/2015 21:41:58 | 49.21 | 48.01 | 35 | 1.51 | 1.03 | 1.9 |
| 4/20/2015 21:42:00 | 49.54 | 48.34 | 197 | 1.53 | 1.00 | 10.8 |
| 4/20/2015 21:42:09 | 49.87 | 48.67 | 0 | 1.60 | 1.11 | 0.0 |
| 4/20/2015 21:42:28 | 50.20 | 49.00 | 0 | 1.59 | 1.21 | 0.0 |
| 4/20/2015 21:42:32 | 50.53 | 49.33 | 104 | 1.59 | 1.21 | 5.7 |
| 4/20/2015 21:42:41 | 50.85 | 49.65 | 14 | 1.57 | 1.17 | 0.8 |
| 4/20/2015 21:42:44 | 51.18 | 49.98 | 99 | 1.62 | 1.24 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 21:42:47 | 51.51 | 50.31 | 162 | 1.63 | 1.15 | 8.9 |
| 4/20/2015 | 21:43:47 | 51.84 | 50.64 | 87 | 1.88 | 1.08 | 4.7 |
| 4/20/2015 | 21:43:50 | 52.17 | 50.97 | 143 | 1.65 | 1.13 | 7.8 |
| 4/20/2015 | 21:43:53 | 52.49 | 51.29 | 101 | 1.65 | 1.18 | 5.5 |
| 4/20/2015 | 21:43:56 | 52.82 | 51.62 | 118 | 1.63 | 1.09 | 6.5 |
| 4/20/2015 | 21:44:00 | 53.15 | 51.95 | 98 | 1.67 | 1.14 | 5.4 |
| 4/20/2015 | 21:44:04 | 53.48 | 52.28 | 78 | 1.68 | 1.17 | 4.3 |
| 4/20/2015 | 21:44:10 | 53.81 | 52.61 | 63 | 1.66 | 1.07 | 3.5 |
| 4/20/2015 | 21:44:13 | 54.13 | 52.93 | 101 | 1.65 | 1.13 | 5.5 |
| 4/20/2015 | 21:44:16 | 54.46 | 53.26 | 127 | 1.64 | 1.14 | 6.9 |
| 4/20/2015 | 21:45:33 | 54.79 | 53.59 | 35 | 1.62 | 1.10 | 1.9 |
| 4/20/2015 | 21:45:35 | 55.12 | 53.92 | 156 | 1.64 | 1.04 | 8.5 |
| 4/20/2015 | 21:45:38 | 55.45 | 54.25 | 121 | 1.66 | 1.17 | 6.6 |
| 4/20/2015 | 21:45:42 | 55.77 | 54.57 | 78 | 1.66 | 1.11 | 4.3 |
| 4/20/2015 | 21:45:48 | 56.10 | 54.90 | 64 | 1.66 | 1.09 | 3.5 |
| 4/20/2015 | 21:45:52 | 56.32 | 55.12 | 46 | 1.65 | 1.06 | 2.5 |

## E188 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 21:37:31

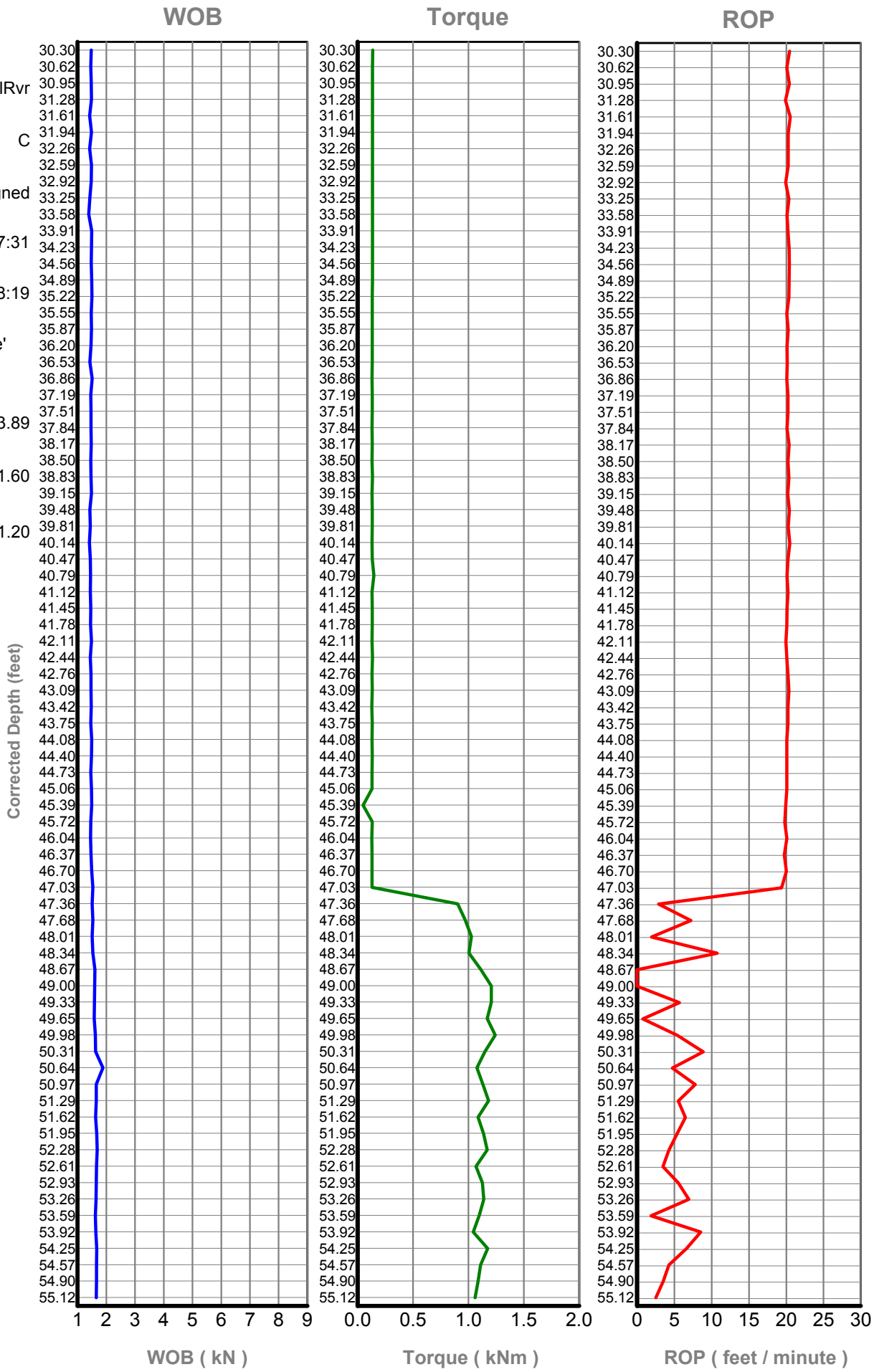
**End Date:**
4/20/2015 21:48:19

**Operator Note:**
'1.2 1.3 c Auto Complete'

**Northing:**
368,363.89

**Easting:**
253,471.60

**Tide (feet):**
1.20



## Hole: E189 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:19:32 | 34.12 | 30.12 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:32 | 34.45 | 30.45 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:32 | 34.78 | 30.78 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:33 | 35.11 | 31.11 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:33 | 35.43 | 31.43 | 1,111 | 0.29 | 0.31 | 60.8 |
| 4/20/2015 18:19:33 | 35.76 | 31.76 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/20/2015 18:19:34 | 36.09 | 32.09 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/20/2015 18:19:34 | 36.42 | 32.42 | 1,089 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:34 | 36.75 | 32.75 | 1,109 | 0.28 | 0.30 | 60.6 |
| 4/20/2015 18:19:35 | 37.07 | 33.07 | 1,109 | 0.28 | 0.30 | 60.6 |
| 4/20/2015 18:19:35 | 37.40 | 33.40 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/20/2015 18:19:35 | 37.73 | 33.73 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/20/2015 18:19:35 | 38.06 | 34.06 | 1,100 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:36 | 38.39 | 34.39 | 1,096 | 0.28 | 0.31 | 60.0 |
| 4/20/2015 18:19:36 | 38.71 | 34.71 | 1,096 | 0.28 | 0.31 | 60.0 |
| 4/20/2015 18:19:36 | 39.04 | 35.04 | 1,103 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 18:19:37 | 39.37 | 35.37 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 18:19:37 | 39.70 | 35.70 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/20/2015 18:19:37 | 40.03 | 36.03 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 18:19:38 | 40.35 | 36.35 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/20/2015 18:19:38 | 40.68 | 36.68 | 1,092 | 0.28 | 0.32 | 59.7 |
| 4/20/2015 18:19:38 | 41.01 | 37.01 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/20/2015 18:19:39 | 41.34 | 37.34 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/20/2015 18:19:39 | 41.67 | 37.67 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:40 | 41.99 | 37.99 | 1,096 | 0.28 | 0.31 | 59.9 |
| 4/20/2015 18:19:40 | 42.32 | 38.32 | 1,096 | 0.28 | 0.31 | 59.9 |
| 4/20/2015 18:19:40 | 42.65 | 38.65 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/20/2015 18:19:41 | 42.98 | 38.98 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/20/2015 18:19:41 | 43.31 | 39.31 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:41 | 43.64 | 39.64 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:42 | 43.96 | 39.96 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:42 | 44.29 | 40.29 | 1,098 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 18:19:42 | 44.62 | 40.62 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 18:19:43 | 44.95 | 40.95 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 18:19:43 | 45.28 | 41.28 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 18:19:43 | 45.60 | 41.60 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/20/2015 18:19:43 | 45.93 | 41.93 | 1,093 | 0.29 | 0.31 | 59.8 |
| 4/20/2015 18:19:44 | 46.26 | 42.26 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 18:19:44 | 46.59 | 42.59 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 18:19:44 | 46.92 | 42.92 | 1,087 | 0.28 | 0.32 | 59.4 |
| 4/20/2015 18:19:45 | 47.24 | 43.24 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:45 | 47.57 | 43.57 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:45 | 47.90 | 43.90 | 1,096 | 0.29 | 0.31 | 60.0 |
| 4/20/2015 18:19:46 | 48.23 | 44.23 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/20/2015 18:19:46 | 48.56 | 44.56 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/20/2015 18:19:46 | 48.88 | 44.88 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/20/2015 18:19:47 | 49.21 | 45.21 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/20/2015 18:19:47 | 49.54 | 45.54 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 18:19:47 | 49.87 | 45.87 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 18:19:48 | 50.20 | 46.20 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/20/2015 18:19:48 | 50.53 | 46.53 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/20/2015 18:19:48 | 50.85 | 46.85 | 1,084 | 0.24 | 0.32 | 59.3 |
| 4/20/2015 18:19:49 | 51.18 | 47.18 | 1,084 | 0.24 | 0.32 | 59.3 |
| 4/20/2015 18:19:49 | 51.51 | 47.51 | 943 | 0.26 | 0.39 | 51.6 |
| 4/20/2015 18:19:52 | 51.84 | 47.84 | 121 | 0.25 | 0.39 | 6.6 |
| 4/20/2015 18:20:09 | 52.17 | 48.17 | 26 | 2.86 | 0.35 | 1.4 |
| 4/20/2015 18:20:09 | 52.49 | 48.49 | 169 | 3.73 | 0.36 | 9.2 |
| 4/20/2015 18:20:10 | 52.82 | 48.82 | 286 | 1.85 | 0.32 | 15.6 |
| 4/20/2015 18:20:10 | 53.15 | 49.15 | 462 | 2.08 | 0.32 | 25.3 |
| 4/20/2015 18:20:11 | 53.48 | 49.48 | 656 | 2.42 | 0.39 | 35.9 |
| 4/20/2015 18:20:18 | 53.81 | 49.81 | 49 | 3.26 | 0.40 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:20:22 | 54.13 | 50.13 | 81 | 3.41 | 0.39 | 4.4 |
| 4/20/2015 | 18:20:28 | 54.46 | 50.46 | 58 | 3.09 | 0.39 | 3.2 |
| 4/20/2015 | 18:20:34 | 54.79 | 50.79 | 67 | 3.56 | 0.40 | 3.7 |
| 4/20/2015 | 18:20:40 | 55.12 | 51.12 | 51 | 3.30 | 0.40 | 2.8 |
| 4/20/2015 | 18:20:46 | 55.42 | 51.42 | 55 | 3.22 | 0.40 | 3.0 |

## E189 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 18:17:17

**End Date:**
4/20/2015 18:22:30

**Operator Note:**
'4 4.1 b Auto Complete'

**Northing:**
368,414.36

**Easting:**
253,534.06

**Tide (feet):**
4.00



## Hole: E19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:15:29 | 36.09 | 30.29 | 1,036 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 12:15:29 | 36.42 | 30.62 | 1,036 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 12:15:29 | 36.75 | 30.95 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 12:15:30 | 37.07 | 31.27 | 1,027 | 0.43 | 0.46 | 56.2 |
| 4/20/2015 12:15:30 | 37.40 | 31.60 | 1,027 | 0.43 | 0.46 | 56.2 |
| 4/20/2015 12:15:30 | 37.73 | 31.93 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 12:15:31 | 38.06 | 32.26 | 1,010 | 0.43 | 0.46 | 55.2 |
| 4/20/2015 12:15:31 | 38.39 | 32.59 | 1,010 | 0.43 | 0.46 | 55.2 |
| 4/20/2015 12:15:31 | 38.71 | 32.91 | 1,026 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 12:15:32 | 39.04 | 33.24 | 1,026 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 12:15:32 | 39.37 | 33.57 | 1,026 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 12:15:32 | 39.70 | 33.90 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 12:15:33 | 40.03 | 34.23 | 1,022 | 0.43 | 0.46 | 55.9 |
| 4/20/2015 12:15:34 | 40.35 | 34.55 | 1,022 | 0.43 | 0.46 | 55.9 |
| 4/20/2015 12:15:34 | 40.68 | 34.88 | 1,042 | 0.43 | 0.46 | 57.0 |
| 4/20/2015 12:15:34 | 41.01 | 35.21 | 1,027 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 12:15:35 | 41.34 | 35.54 | 1,027 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 12:15:35 | 41.67 | 35.87 | 1,021 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 12:15:35 | 41.99 | 36.19 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:36 | 42.32 | 36.52 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:36 | 42.65 | 36.85 | 1,021 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 12:15:36 | 42.98 | 37.18 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:37 | 43.31 | 37.51 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:37 | 43.64 | 37.84 | 1,020 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 12:15:37 | 43.96 | 38.16 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:38 | 44.29 | 38.49 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:38 | 44.62 | 38.82 | 1,020 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 12:15:38 | 44.95 | 39.15 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:39 | 45.28 | 39.48 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:39 | 45.60 | 39.80 | 1,021 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 12:15:39 | 45.93 | 40.13 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 12:15:40 | 46.26 | 40.46 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 12:15:40 | 46.59 | 40.79 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 12:15:48 | 46.92 | 41.12 | 42 | 0.43 | 0.46 | 2.3 |
| 4/20/2015 12:15:52 | 47.24 | 41.44 | 67 | 0.43 | 0.46 | 3.6 |
| 4/20/2015 12:15:57 | 47.57 | 41.77 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 12:16:01 | 47.90 | 42.10 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 12:16:12 | 48.23 | 42.43 | 47 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 12:16:16 | 48.56 | 42.76 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:16:22 | 48.88 | 43.08 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 12:16:26 | 49.21 | 43.41 | 83 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 12:16:31 | 49.54 | 43.74 | 85 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 12:16:34 | 49.87 | 44.07 | 97 | 0.43 | 0.46 | 5.3 |
| 4/20/2015 12:16:37 | 50.20 | 44.40 | 137 | 0.43 | 0.46 | 7.5 |
| 4/20/2015 12:16:38 | 50.53 | 44.73 | 166 | 0.43 | 0.46 | 9.1 |
| 4/20/2015 12:16:43 | 50.85 | 45.05 | 78 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 12:16:49 | 51.18 | 45.38 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 12:16:54 | 51.51 | 45.71 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 12:16:56 | 51.84 | 46.04 | 131 | 0.43 | 0.46 | 7.2 |
| 4/20/2015 12:17:01 | 52.17 | 46.37 | 46 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 12:17:10 | 52.49 | 46.69 | 38 | 0.43 | 0.46 | 2.1 |
| 4/20/2015 12:17:18 | 52.82 | 47.02 | 44 | 0.43 | 0.46 | 2.4 |
| 4/20/2015 12:17:29 | 53.15 | 47.35 | 35 | 0.43 | 0.46 | 1.9 |

## E19 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 12:14:01

**End Date:**
4/20/2015 12:29:06

**Operator Note:**
'5.8 5.7 b Auto Complete'

**Northing:**
369,032.16

**Easting:**
253,352.50

**Tide (feet):**
5.80



## Hole: E190 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:24:47 | 34.12 | 30.32 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 18:24:48 | 34.45 | 30.65 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 18:24:48 | 34.78 | 30.98 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 18:24:48 | 35.11 | 31.31 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 18:24:49 | 35.43 | 31.63 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 18:24:49 | 35.76 | 31.96 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 18:24:49 | 36.09 | 32.29 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 18:24:50 | 36.42 | 32.62 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 18:24:50 | 36.75 | 32.95 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 18:24:50 | 37.07 | 33.27 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 18:24:51 | 37.40 | 33.60 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 18:24:51 | 37.73 | 33.93 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 18:24:51 | 38.06 | 34.26 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 18:24:52 | 38.39 | 34.59 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/20/2015 18:24:52 | 38.71 | 34.91 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 18:24:53 | 39.04 | 35.24 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 18:24:53 | 39.37 | 35.57 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 18:24:53 | 39.70 | 35.90 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 18:24:54 | 40.03 | 36.23 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:24:54 | 40.35 | 36.55 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:24:54 | 40.68 | 36.88 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 18:24:55 | 41.01 | 37.21 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:24:55 | 41.34 | 37.54 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:24:55 | 41.67 | 37.87 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 18:24:56 | 41.99 | 38.19 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/20/2015 18:24:56 | 42.32 | 38.52 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/20/2015 18:24:56 | 42.65 | 38.85 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/20/2015 18:24:57 | 42.98 | 39.18 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/20/2015 18:24:57 | 43.31 | 39.51 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/20/2015 18:24:57 | 43.64 | 39.84 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/20/2015 18:24:58 | 43.96 | 40.16 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/20/2015 18:24:58 | 44.29 | 40.49 | 1,075 | 1.73 | 0.21 | 58.8 |
| 4/20/2015 18:24:58 | 44.62 | 40.82 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/20/2015 18:24:59 | 44.95 | 41.15 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/20/2015 18:24:59 | 45.28 | 41.48 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 18:24:59 | 45.60 | 41.80 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:00 | 45.93 | 42.13 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:00 | 46.26 | 42.46 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 18:25:00 | 46.59 | 42.79 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 18:25:01 | 46.92 | 43.12 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/20/2015 18:25:01 | 47.24 | 43.44 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/20/2015 18:25:01 | 47.57 | 43.77 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 18:25:02 | 47.90 | 44.10 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 18:25:02 | 48.23 | 44.43 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/20/2015 18:25:02 | 48.56 | 44.76 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 18:25:03 | 48.88 | 45.08 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/20/2015 18:25:03 | 49.21 | 45.41 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:04 | 49.54 | 45.74 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:04 | 49.87 | 46.07 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:25:04 | 50.20 | 46.40 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:25:05 | 50.53 | 46.73 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/20/2015 18:25:05 | 50.85 | 47.05 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/20/2015 18:25:05 | 51.18 | 47.38 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:06 | 51.51 | 47.71 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/20/2015 18:25:14 | 51.84 | 48.04 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 18:25:15 | 52.17 | 48.37 | 47 | 1.73 | 0.21 | 2.6 |
| 4/20/2015 18:25:47 | 52.49 | 48.69 | 29 | 1.73 | 0.21 | 1.6 |
| 4/20/2015 18:25:47 | 52.82 | 49.02 | 218 | 1.73 | 0.21 | 11.9 |
| 4/20/2015 18:25:48 | 53.15 | 49.35 | 218 | 1.73 | 0.21 | 11.9 |
| 4/20/2015 18:25:48 | 53.48 | 49.68 | 409 | 1.73 | 0.21 | 22.4 |
| 4/20/2015 18:25:48 | 53.81 | 50.01 | 582 | 1.73 | 0.21 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:25:49 | 54.13 | 50.33 | 582 | 1.73 | 0.21 | 31.8 |
| 4/20/2015 | 18:25:50 | 54.46 | 50.66 | 582 | 1.73 | 0.21 | 31.8 |
| 4/20/2015 | 18:25:50 | 54.79 | 50.99 | 761 | 1.73 | 0.21 | 41.6 |
| 4/20/2015 | 18:25:50 | 55.12 | 51.32 | 917 | 1.73 | 0.21 | 50.2 |
| 4/20/2015 | 18:25:52 | 55.45 | 51.65 | 556 | 1.73 | 0.21 | 30.4 |
| 4/20/2015 | 18:26:06 | 55.77 | 51.97 | 53 | 1.73 | 0.21 | 2.9 |
| 4/20/2015 | 18:26:07 | 56.10 | 52.30 | 189 | 1.73 | 0.21 | 10.3 |
| 4/20/2015 | 18:26:08 | 56.43 | 52.63 | 305 | 1.73 | 0.21 | 16.7 |
| 4/20/2015 | 18:26:09 | 56.76 | 52.96 | 326 | 1.73 | 0.21 | 17.8 |
| 4/20/2015 | 18:26:10 | 57.09 | 53.29 | 363 | 1.73 | 0.21 | 19.9 |
| 4/20/2015 | 18:26:11 | 57.41 | 53.61 | 396 | 1.73 | 0.21 | 21.7 |
| 4/20/2015 | 18:26:12 | 57.74 | 53.94 | 416 | 1.73 | 0.21 | 22.7 |
| 4/20/2015 | 18:26:15 | 58.07 | 54.27 | 111 | 1.73 | 0.21 | 6.1 |
| 4/20/2015 | 18:26:19 | 58.40 | 54.60 | 76 | 1.73 | 0.21 | 4.1 |
| 4/20/2015 | 18:26:26 | 58.73 | 54.93 | 55 | 1.73 | 0.21 | 3.0 |
| 4/20/2015 | 18:26:29 | 58.95 | 55.15 | 58 | 1.73 | 0.21 | 3.2 |

## E190 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 18:23:18

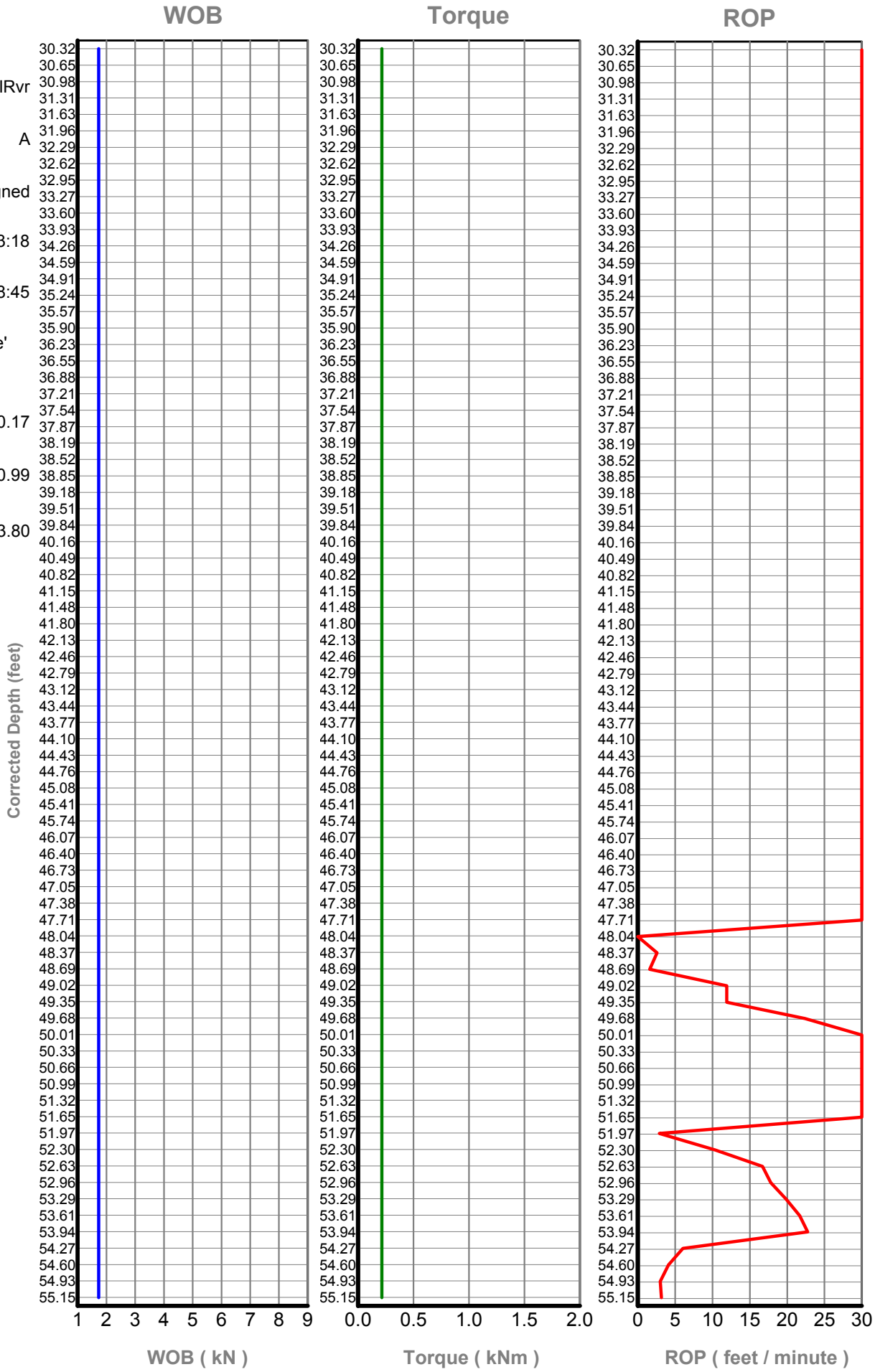
**End Date:**
4/20/2015 18:28:45

**Operator Note:**
'3.8 3.9 b Auto Complete'

**Northing:**
368,450.17

**Easting:**
253,580.99

**Tide (feet):**
3.80



## Hole: E191 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 18:22:39 | 34.12 | 30.12 | 321 | 1.33 | 0.25 | 17.6 |
| 4/20/2015 18:22:40 | 34.45 | 30.45 | 326 | 1.34 | 0.25 | 17.8 |
| 4/20/2015 18:22:41 | 34.78 | 30.78 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:22:42 | 35.11 | 31.11 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:22:43 | 35.43 | 31.43 | 328 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:22:44 | 35.76 | 31.76 | 329 | 1.34 | 0.25 | 18.0 |
| 4/20/2015 18:22:45 | 36.09 | 32.09 | 327 | 1.40 | 0.25 | 17.9 |
| 4/20/2015 18:22:46 | 36.42 | 32.42 | 325 | 1.38 | 0.25 | 17.7 |
| 4/20/2015 18:22:48 | 36.75 | 32.75 | 326 | 1.35 | 0.25 | 17.8 |
| 4/20/2015 18:22:49 | 37.07 | 33.07 | 322 | 1.36 | 0.25 | 17.6 |
| 4/20/2015 18:22:50 | 37.40 | 33.40 | 332 | 1.34 | 0.25 | 18.2 |
| 4/20/2015 18:22:51 | 37.73 | 33.73 | 328 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:22:52 | 38.06 | 34.06 | 325 | 1.36 | 0.25 | 17.8 |
| 4/20/2015 18:22:53 | 38.39 | 34.39 | 328 | 1.38 | 0.31 | 17.9 |
| 4/20/2015 18:22:54 | 38.71 | 34.71 | 328 | 1.28 | 0.25 | 17.9 |
| 4/20/2015 18:22:55 | 39.04 | 35.04 | 326 | 1.35 | 0.25 | 17.8 |
| 4/20/2015 18:22:56 | 39.37 | 35.37 | 329 | 1.32 | 0.25 | 18.0 |
| 4/20/2015 18:22:57 | 39.70 | 35.70 | 329 | 1.40 | 0.25 | 18.0 |
| 4/20/2015 18:22:58 | 40.03 | 36.03 | 332 | 1.36 | 0.31 | 18.2 |
| 4/20/2015 18:22:59 | 40.35 | 36.35 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:23:01 | 40.68 | 36.68 | 327 | 1.31 | 0.25 | 17.9 |
| 4/20/2015 18:23:02 | 41.01 | 37.01 | 325 | 1.32 | 0.25 | 17.8 |
| 4/20/2015 18:23:03 | 41.34 | 37.34 | 327 | 1.40 | 0.25 | 17.9 |
| 4/20/2015 18:23:04 | 41.67 | 37.67 | 329 | 1.40 | 0.25 | 18.0 |
| 4/20/2015 18:23:05 | 41.99 | 37.99 | 320 | 1.37 | 0.25 | 17.5 |
| 4/20/2015 18:23:06 | 42.32 | 38.32 | 324 | 1.35 | 0.25 | 17.7 |
| 4/20/2015 18:23:07 | 42.65 | 38.65 | 327 | 1.39 | 0.25 | 17.9 |
| 4/20/2015 18:23:08 | 42.98 | 38.98 | 331 | 1.38 | 0.25 | 18.1 |
| 4/20/2015 18:23:09 | 43.31 | 39.31 | 327 | 1.42 | 0.25 | 17.9 |
| 4/20/2015 18:23:10 | 43.64 | 39.64 | 327 | 1.38 | 0.25 | 17.9 |
| 4/20/2015 18:23:12 | 43.96 | 39.96 | 327 | 1.36 | 0.25 | 17.9 |
| 4/20/2015 18:23:13 | 44.29 | 40.29 | 318 | 0.39 | 0.25 | 17.4 |
| 4/20/2015 18:23:15 | 44.62 | 40.62 | 233 | 1.41 | 0.25 | 12.8 |
| 4/20/2015 18:23:16 | 44.95 | 40.95 | 259 | 1.44 | 0.25 | 14.2 |
| 4/20/2015 18:23:17 | 45.28 | 41.28 | 318 | 1.49 | 0.25 | 17.4 |
| 4/20/2015 18:23:18 | 45.60 | 41.60 | 318 | 1.44 | 0.25 | 17.4 |
| 4/20/2015 18:23:19 | 45.93 | 41.93 | 318 | 1.45 | 0.25 | 17.4 |
| 4/20/2015 18:23:20 | 46.26 | 42.26 | 318 | 1.42 | 0.25 | 17.4 |
| 4/20/2015 18:23:21 | 46.59 | 42.59 | 315 | 1.34 | 0.25 | 17.2 |
| 4/20/2015 18:23:23 | 46.92 | 42.92 | 315 | 1.40 | 0.26 | 17.2 |
| 4/20/2015 18:23:24 | 47.24 | 43.24 | 318 | 1.45 | 0.25 | 17.4 |
| 4/20/2015 18:23:25 | 47.57 | 43.57 | 316 | 1.45 | 0.25 | 17.3 |
| 4/20/2015 18:23:26 | 47.90 | 43.90 | 318 | 1.40 | 0.25 | 17.4 |
| 4/20/2015 18:23:27 | 48.23 | 44.23 | 315 | 1.45 | 0.26 | 17.2 |
| 4/20/2015 18:23:28 | 48.56 | 44.56 | 315 | 1.34 | 0.25 | 17.2 |
| 4/20/2015 18:23:30 | 48.88 | 44.88 | 318 | 1.45 | 0.25 | 17.4 |
| 4/20/2015 18:23:31 | 49.21 | 45.21 | 318 | 1.42 | 0.25 | 17.4 |
| 4/20/2015 18:23:32 | 49.54 | 45.54 | 318 | 1.43 | 0.25 | 17.4 |
| 4/20/2015 18:23:33 | 49.87 | 45.87 | 315 | 1.43 | 0.25 | 17.2 |
| 4/20/2015 18:23:34 | 50.20 | 46.20 | 315 | 1.47 | 0.25 | 17.2 |
| 4/20/2015 18:23:36 | 50.53 | 46.53 | 307 | 1.50 | 0.25 | 16.8 |
| 4/20/2015 18:23:37 | 50.85 | 46.85 | 304 | 1.53 | 0.25 | 16.6 |
| 4/20/2015 18:23:38 | 51.18 | 47.18 | 304 | 1.54 | 0.25 | 16.6 |
| 4/20/2015 18:23:39 | 51.51 | 47.51 | 304 | 1.54 | 0.25 | 16.6 |
| 4/20/2015 18:23:40 | 51.84 | 47.84 | 300 | 1.53 | 0.25 | 16.4 |
| 4/20/2015 18:23:41 | 52.17 | 48.17 | 297 | 1.57 | 0.25 | 16.2 |
| 4/20/2015 18:23:42 | 52.49 | 48.49 | 297 | 1.65 | 0.25 | 16.2 |
| 4/20/2015 18:23:44 | 52.82 | 48.82 | 299 | 1.65 | 0.25 | 16.4 |
| 4/20/2015 18:23:45 | 53.15 | 49.15 | 297 | 1.66 | 0.25 | 16.2 |
| 4/20/2015 18:23:46 | 53.48 | 49.48 | 295 | 1.66 | 0.25 | 16.1 |
| 4/20/2015 18:23:48 | 53.81 | 49.81 | 287 | 1.64 | 0.25 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 18:23:49 | 54.13 | 50.13 | 292 | 1.63 | 0.25 | 16.0 |
| 4/20/2015 | 18:23:50 | 54.46 | 50.46 | 294 | 1.66 | 0.25 | 16.1 |
| 4/20/2015 | 18:23:51 | 54.79 | 50.79 | 302 | 1.68 | 0.25 | 16.5 |
| 4/20/2015 | 18:23:52 | 55.12 | 51.12 | 295 | 1.68 | 0.25 | 16.1 |
| 4/20/2015 | 18:23:54 | 55.45 | 51.45 | 295 | 1.68 | 0.25 | 16.1 |
| 4/20/2015 | 18:23:55 | 55.77 | 51.77 | 290 | 1.75 | 0.25 | 15.9 |
| 4/20/2015 | 18:23:56 | 56.10 | 52.10 | 286 | 1.82 | 0.25 | 15.6 |
| 4/20/2015 | 18:23:57 | 56.43 | 52.43 | 284 | 1.88 | 0.25 | 15.5 |
| 4/20/2015 | 18:23:59 | 56.76 | 52.76 | 283 | 2.09 | 0.25 | 15.5 |
| 4/20/2015 | 18:24:00 | 57.09 | 53.09 | 278 | 7.09 | 0.25 | 15.2 |
| 4/20/2015 | 18:24:00 | 57.41 | 53.41 | 278 | 7.09 | 0.25 | 15.2 |
| 4/20/2015 | 18:24:00 | 57.74 | 53.74 | 431 | 5.03 | 0.25 | 23.6 |
| 4/20/2015 | 18:24:00 | 58.07 | 54.07 | 431 | 5.03 | 0.25 | 23.6 |
| 4/20/2015 | 18:24:01 | 58.40 | 54.40 | 730 | 8.07 | 0.25 | 39.9 |
| 4/20/2015 | 18:24:08 | 58.73 | 54.73 | 0 | 8.59 | 1.47 | 0.0 |
| 4/20/2015 | 18:24:23 | 59.06 | 55.06 | 99 | 1.85 | 1.22 | 5.4 |
| 4/20/2015 | 18:24:25 | 59.34 | 55.34 | 146 | 1.60 | 1.08 | 8.0 |

## E191 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 18:19:30

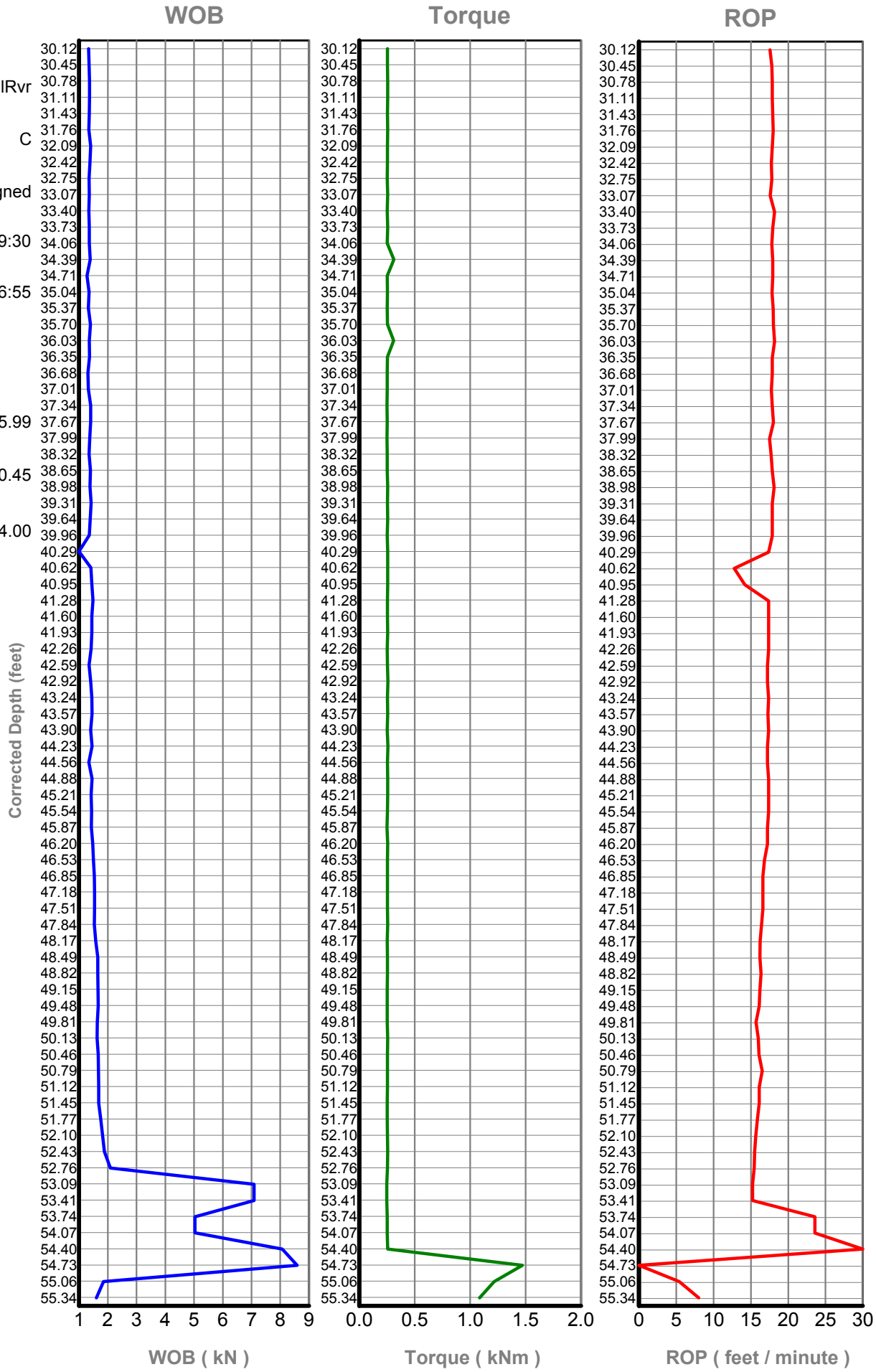
**End Date:**
4/20/2015 18:26:55

**Operator Note:**
'4 4.1 c Auto Complete'

**Northing:**
368,495.99

**Easting:**
253,640.45

**Tide (feet):**
4.00



## Hole: E192 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:57:59 | 32.48 | 30.18 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/20/2015 8:58:00 | 32.81 | 30.51 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 8:58:01 | 33.14 | 30.84 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/20/2015 8:58:01 | 33.46 | 31.16 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/20/2015 8:58:01 | 33.79 | 31.49 | 1,033 | 0.31 | 0.24 | 56.5 |
| 4/20/2015 8:58:02 | 34.12 | 31.82 | 1,033 | 0.31 | 0.24 | 56.5 |
| 4/20/2015 8:58:02 | 34.45 | 32.15 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/20/2015 8:58:02 | 34.78 | 32.48 | 1,030 | 0.43 | 0.33 | 56.3 |
| 4/20/2015 8:58:03 | 35.11 | 32.81 | 1,030 | 0.43 | 0.33 | 56.3 |
| 4/20/2015 8:58:03 | 35.43 | 33.13 | 1,027 | 0.35 | 0.32 | 56.2 |
| 4/20/2015 8:58:03 | 35.76 | 33.46 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:58:04 | 36.09 | 33.79 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:58:04 | 36.42 | 34.12 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:58:04 | 36.75 | 34.45 | 1,010 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:58:05 | 37.07 | 34.77 | 1,010 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:58:05 | 37.40 | 35.10 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:58:05 | 37.73 | 35.43 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:58:06 | 38.06 | 35.76 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:58:06 | 38.39 | 36.09 | 1,022 | 0.32 | 0.31 | 55.9 |
| 4/20/2015 8:58:06 | 38.71 | 36.41 | 1,032 | 0.32 | 0.32 | 56.5 |
| 4/20/2015 8:58:07 | 39.04 | 36.74 | 1,032 | 0.32 | 0.32 | 56.5 |
| 4/20/2015 8:58:07 | 39.37 | 37.07 | 1,027 | 0.35 | 0.31 | 56.2 |
| 4/20/2015 8:58:07 | 39.70 | 37.40 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/20/2015 8:58:08 | 40.03 | 37.73 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/20/2015 8:58:08 | 40.35 | 38.05 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/20/2015 8:58:08 | 40.68 | 38.38 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:58:09 | 41.01 | 38.71 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:58:09 | 41.34 | 39.04 | 1,027 | 0.31 | 0.32 | 56.2 |
| 4/20/2015 8:58:09 | 41.67 | 39.37 | 1,018 | 0.31 | 0.23 | 55.6 |
| 4/20/2015 8:58:10 | 41.99 | 39.69 | 1,018 | 0.31 | 0.23 | 55.6 |
| 4/20/2015 8:58:10 | 42.32 | 40.02 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:58:11 | 42.65 | 40.35 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:58:11 | 42.98 | 40.68 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:58:11 | 43.31 | 41.01 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:58:12 | 43.64 | 41.34 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:58:12 | 43.96 | 41.66 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:58:12 | 44.29 | 41.99 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/20/2015 8:58:13 | 44.62 | 42.32 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/20/2015 8:58:13 | 44.95 | 42.65 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/20/2015 8:58:13 | 45.28 | 42.98 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/20/2015 8:58:14 | 45.60 | 43.30 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/20/2015 8:58:14 | 45.93 | 43.63 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/20/2015 8:58:14 | 46.26 | 43.96 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/20/2015 8:58:15 | 46.59 | 44.29 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/20/2015 8:58:15 | 46.92 | 44.62 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/20/2015 8:58:15 | 47.24 | 44.94 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/20/2015 8:58:16 | 47.57 | 45.27 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/20/2015 8:58:16 | 47.90 | 45.60 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/20/2015 8:58:16 | 48.23 | 45.93 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/20/2015 8:58:17 | 48.56 | 46.26 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/20/2015 8:58:17 | 48.88 | 46.58 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/20/2015 8:58:17 | 49.21 | 46.91 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/20/2015 8:58:18 | 49.54 | 47.24 | 1,027 | 0.32 | 0.32 | 56.1 |
| 4/20/2015 8:58:18 | 49.87 | 47.57 | 1,027 | 0.32 | 0.32 | 56.1 |
| 4/20/2015 8:58:18 | 50.20 | 47.90 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/20/2015 8:58:19 | 50.53 | 48.23 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 8:58:19 | 50.85 | 48.55 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 8:58:19 | 51.18 | 48.88 | 1,006 | 0.32 | 0.33 | 55.0 |
| 4/20/2015 8:58:20 | 51.51 | 49.21 | 1,021 | 0.31 | 0.33 | 55.8 |
| 4/20/2015 8:58:20 | 51.84 | 49.54 | 998 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:58:21 | 52.17 | 49.87 | 998 | 0.31 | 0.33 | 54.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:58:21 | 52.49 | 50.19 | 983 | 0.31 | 0.33 | 53.7 |
| 4/20/2015 | 8:58:22 | 52.82 | 50.52 | 969 | 0.31 | 0.34 | 53.0 |
| 4/20/2015 | 8:58:22 | 53.15 | 50.85 | 949 | 0.31 | 0.34 | 51.9 |
| 4/20/2015 | 8:58:23 | 53.48 | 51.18 | 949 | 0.31 | 0.34 | 51.9 |
| 4/20/2015 | 8:58:23 | 53.81 | 51.51 | 911 | 0.31 | 0.33 | 49.8 |
| 4/20/2015 | 8:58:23 | 54.13 | 51.83 | 896 | 0.31 | 0.34 | 49.0 |
| 4/20/2015 | 8:58:24 | 54.46 | 52.16 | 876 | 0.31 | 0.34 | 47.9 |
| 4/20/2015 | 8:58:24 | 54.79 | 52.49 | 842 | 0.31 | 0.34 | 46.0 |
| 4/20/2015 | 8:58:25 | 55.12 | 52.82 | 842 | 0.31 | 0.34 | 46.0 |
| 4/20/2015 | 8:58:25 | 55.45 | 53.15 | 842 | 0.31 | 0.34 | 46.0 |
| 4/20/2015 | 8:58:25 | 55.77 | 53.47 | 839 | 0.32 | 0.34 | 45.9 |
| 4/20/2015 | 8:58:26 | 56.10 | 53.80 | 832 | 0.31 | 0.34 | 45.5 |
| 4/20/2015 | 8:58:26 | 56.43 | 54.13 | 823 | 0.31 | 0.34 | 45.0 |
| 4/20/2015 | 8:58:27 | 56.76 | 54.46 | 804 | 0.31 | 0.35 | 43.9 |
| 4/20/2015 | 8:58:27 | 57.09 | 54.79 | 795 | 0.31 | 0.36 | 43.5 |
| 4/20/2015 | 8:58:28 | 57.41 | 55.11 | 739 | 0.29 | 0.37 | 40.4 |
| 4/20/2015 | 8:58:37 | 57.68 | 55.38 | 34 | 6.37 | 0.41 | 1.9 |

## E192 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 8:56:05

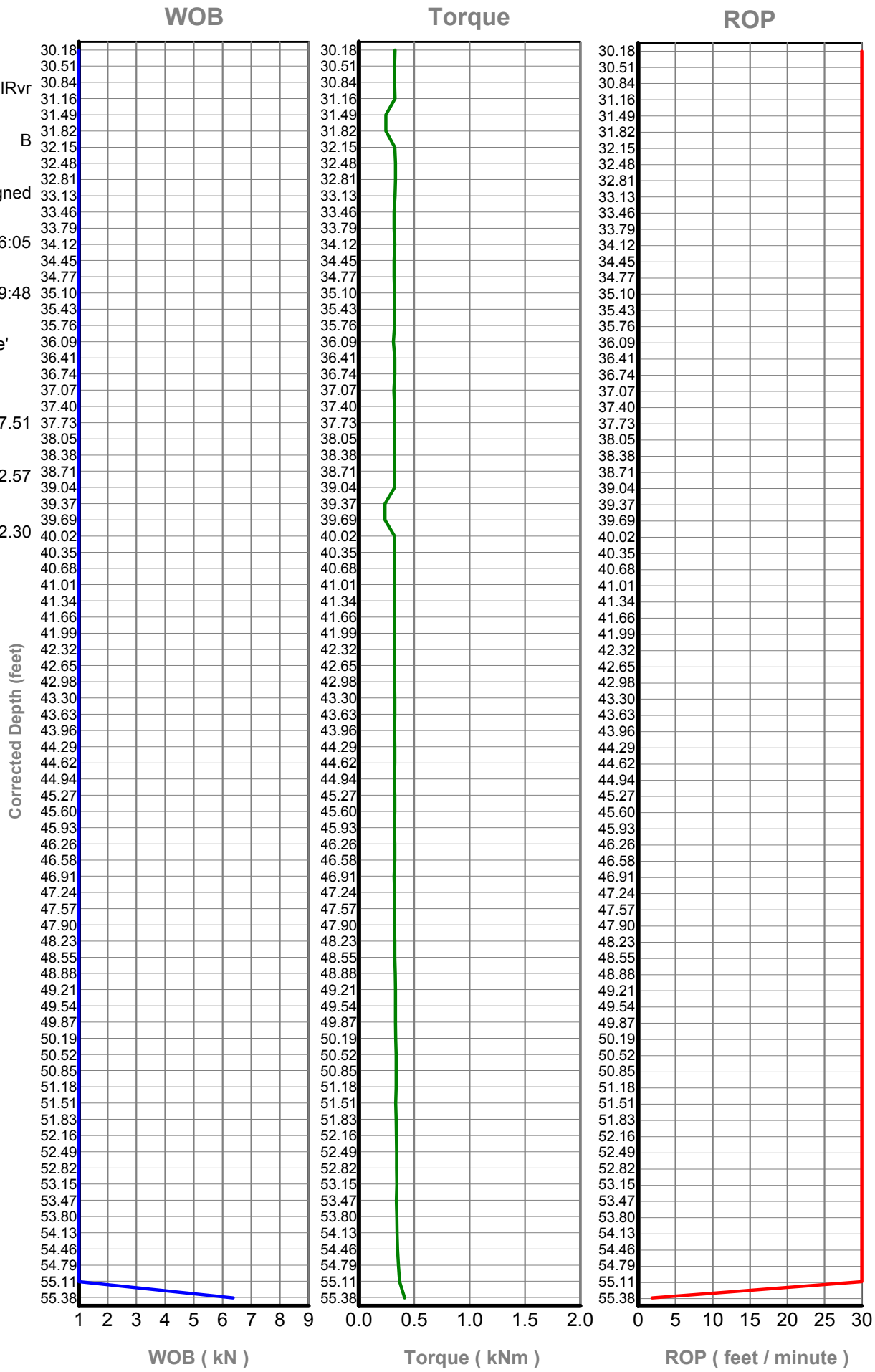
**End Date:**
4/20/2015 8:59:48

**Operator Note:**
'2.3 2.7 b Auto Complete'

**Northing:**
368,567.51

**Easting:**
253,732.57

**Tide (feet):**
2.30



## Hole: E193 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:47:57 | 37.07 | 30.07 | 902 | 0.35 | 0.34 | 49.3 |
| 4/22/2015 3:47:57 | 37.40 | 30.40 | 904 | 0.35 | 0.33 | 49.5 |
| 4/22/2015 3:47:58 | 37.73 | 30.73 | 904 | 0.35 | 0.33 | 49.5 |
| 4/22/2015 3:47:58 | 38.06 | 31.06 | 899 | 0.35 | 0.34 | 49.2 |
| 4/22/2015 3:47:58 | 38.39 | 31.39 | 905 | 0.35 | 0.34 | 49.5 |
| 4/22/2015 3:47:59 | 38.71 | 31.71 | 908 | 0.35 | 0.34 | 49.6 |
| 4/22/2015 3:47:59 | 39.04 | 32.04 | 908 | 0.35 | 0.34 | 49.6 |
| 4/22/2015 3:47:59 | 39.37 | 32.37 | 889 | 0.35 | 0.33 | 48.6 |
| 4/22/2015 3:48:00 | 39.70 | 32.70 | 889 | 0.35 | 0.34 | 48.6 |
| 4/22/2015 3:48:00 | 40.03 | 33.03 | 899 | 0.35 | 0.34 | 49.2 |
| 4/22/2015 3:48:01 | 40.35 | 33.35 | 899 | 0.35 | 0.34 | 49.2 |
| 4/22/2015 3:48:01 | 40.68 | 33.68 | 887 | 0.62 | 0.34 | 48.5 |
| 4/22/2015 3:48:02 | 41.01 | 34.01 | 887 | 0.37 | 0.34 | 48.5 |
| 4/22/2015 3:48:02 | 41.34 | 34.34 | 869 | 0.37 | 0.33 | 47.5 |
| 4/22/2015 3:48:02 | 41.67 | 34.67 | 869 | 0.37 | 0.33 | 47.5 |
| 4/22/2015 3:48:02 | 41.99 | 34.99 | 869 | 0.36 | 0.34 | 47.5 |
| 4/22/2015 3:48:03 | 42.32 | 35.32 | 893 | 0.37 | 0.33 | 48.8 |
| 4/22/2015 3:48:04 | 42.65 | 35.65 | 888 | 0.36 | 0.34 | 48.6 |
| 4/22/2015 3:48:04 | 42.98 | 35.98 | 868 | 0.37 | 0.34 | 47.4 |
| 4/22/2015 3:48:04 | 43.31 | 36.31 | 868 | 0.37 | 0.34 | 47.4 |
| 4/22/2015 3:48:05 | 43.64 | 36.64 | 868 | 0.37 | 0.33 | 47.4 |
| 4/22/2015 3:48:05 | 43.96 | 36.96 | 905 | 0.35 | 0.34 | 49.5 |
| 4/22/2015 3:48:06 | 44.29 | 37.29 | 915 | 0.39 | 0.34 | 50.0 |
| 4/22/2015 3:48:06 | 44.62 | 37.62 | 915 | 0.39 | 0.34 | 50.0 |
| 4/22/2015 3:48:06 | 44.95 | 37.95 | 871 | 0.37 | 0.34 | 47.6 |
| 4/22/2015 3:48:07 | 45.28 | 38.28 | 871 | 0.51 | 0.35 | 47.6 |
| 4/22/2015 3:48:07 | 45.60 | 38.60 | 901 | 0.38 | 0.34 | 49.3 |
| 4/22/2015 3:48:08 | 45.93 | 38.93 | 901 | 0.38 | 0.34 | 49.3 |
| 4/22/2015 3:48:08 | 46.26 | 39.26 | 881 | 0.36 | 0.33 | 48.2 |
| 4/22/2015 3:48:08 | 46.59 | 39.59 | 881 | 0.37 | 0.31 | 48.2 |
| 4/22/2015 3:48:09 | 46.92 | 39.92 | 860 | 0.43 | 0.34 | 47.0 |
| 4/22/2015 3:48:09 | 47.24 | 40.24 | 860 | 0.43 | 0.34 | 47.0 |
| 4/22/2015 3:48:09 | 47.57 | 40.57 | 860 | 0.36 | 0.34 | 47.0 |
| 4/22/2015 3:48:10 | 47.90 | 40.90 | 881 | 0.39 | 0.34 | 48.2 |
| 4/22/2015 3:48:10 | 48.23 | 41.23 | 869 | 0.37 | 0.34 | 47.5 |
| 4/22/2015 3:48:11 | 48.56 | 41.56 | 869 | 0.37 | 0.34 | 47.5 |
| 4/22/2015 3:48:11 | 48.88 | 41.88 | 869 | 0.36 | 0.34 | 47.5 |
| 4/22/2015 3:48:11 | 49.21 | 42.21 | 867 | 0.40 | 0.34 | 47.4 |
| 4/22/2015 3:48:12 | 49.54 | 42.54 | 887 | 0.36 | 0.34 | 48.5 |
| 4/22/2015 3:48:12 | 49.87 | 42.87 | 887 | 0.36 | 0.34 | 48.5 |
| 4/22/2015 3:48:13 | 50.20 | 43.20 | 887 | 0.36 | 0.34 | 48.5 |
| 4/22/2015 3:48:13 | 50.53 | 43.53 | 894 | 0.37 | 0.34 | 48.9 |
| 4/22/2015 3:48:14 | 50.85 | 43.85 | 894 | 0.36 | 0.34 | 48.9 |
| 4/22/2015 3:48:14 | 51.18 | 44.18 | 880 | 0.36 | 0.34 | 48.1 |
| 4/22/2015 3:48:15 | 51.51 | 44.51 | 880 | 0.36 | 0.34 | 48.1 |
| 4/22/2015 3:48:15 | 51.84 | 44.84 | 915 | 0.36 | 0.34 | 50.0 |
| 4/22/2015 3:48:15 | 52.17 | 45.17 | 904 | 0.36 | 0.34 | 49.4 |
| 4/22/2015 3:48:16 | 52.49 | 45.49 | 906 | 0.36 | 0.34 | 49.5 |
| 4/22/2015 3:48:16 | 52.82 | 45.82 | 906 | 0.36 | 0.34 | 49.5 |
| 4/22/2015 3:48:16 | 53.15 | 46.15 | 900 | 0.36 | 0.34 | 49.2 |
| 4/22/2015 3:48:17 | 53.48 | 46.48 | 888 | 0.36 | 0.34 | 48.5 |
| 4/22/2015 3:48:17 | 53.81 | 46.81 | 876 | 0.36 | 0.34 | 47.9 |
| 4/22/2015 3:48:18 | 54.13 | 47.13 | 885 | 0.35 | 0.34 | 48.4 |
| 4/22/2015 3:48:18 | 54.46 | 47.46 | 885 | 0.35 | 0.34 | 48.4 |
| 4/22/2015 3:48:18 | 54.79 | 47.79 | 882 | 0.36 | 0.34 | 48.2 |
| 4/22/2015 3:48:19 | 55.12 | 48.12 | 874 | 0.37 | 0.34 | 47.8 |
| 4/22/2015 3:48:19 | 55.45 | 48.45 | 873 | 0.36 | 0.34 | 47.7 |
| 4/22/2015 3:48:20 | 55.77 | 48.77 | 873 | 0.36 | 0.34 | 47.7 |
| 4/22/2015 3:48:40 | 56.10 | 49.10 | 0 | 2.52 | 0.35 | 0.0 |
| 4/22/2015 3:48:41 | 56.43 | 49.43 | 15 | 5.32 | 0.39 | 0.8 |
| 4/22/2015 3:48:49 | 56.76 | 49.76 | 26 | 2.87 | 0.40 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:48:58 | 57.09 | 50.09 | 49 | 5.69 | 0.41 | 2.7 |
| 4/22/2015 | 3:49:11 | 57.41 | 50.41 | 20 | 3.64 | 0.38 | 1.1 |
| 4/22/2015 | 3:49:11 | 57.74 | 50.74 | 69 | 3.94 | 0.38 | 3.8 |
| 4/22/2015 | 3:49:16 | 58.07 | 51.07 | 42 | 4.34 | 0.39 | 2.3 |
| 4/22/2015 | 3:49:17 | 58.40 | 51.40 | 119 | 4.32 | 0.38 | 6.5 |
| 4/22/2015 | 3:49:19 | 58.73 | 51.73 | 176 | 3.37 | 0.37 | 9.6 |
| 4/22/2015 | 3:49:20 | 59.06 | 52.06 | 249 | 3.64 | 0.38 | 13.6 |
| 4/22/2015 | 3:49:20 | 59.38 | 52.38 | 288 | 4.59 | 0.38 | 15.8 |
| 4/22/2015 | 3:49:25 | 59.71 | 52.71 | 120 | 3.27 | 0.38 | 6.6 |
| 4/22/2015 | 3:49:26 | 60.04 | 53.04 | 200 | 3.94 | 0.38 | 10.9 |
| 4/22/2015 | 3:49:27 | 60.37 | 53.37 | 356 | 3.41 | 0.38 | 19.5 |
| 4/22/2015 | 3:49:28 | 60.70 | 53.70 | 399 | 3.28 | 0.38 | 21.8 |
| 4/22/2015 | 3:49:29 | 61.02 | 54.02 | 410 | 2.94 | 0.37 | 22.4 |
| 4/22/2015 | 3:49:30 | 61.35 | 54.35 | 440 | 3.94 | 0.39 | 24.0 |
| 4/22/2015 | 3:49:32 | 61.68 | 54.68 | 245 | 3.61 | 0.40 | 13.4 |
| 4/22/2015 | 3:49:33 | 61.98 | 54.98 | 179 | 2.97 | 0.40 | 9.8 |

## E193 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:27:14

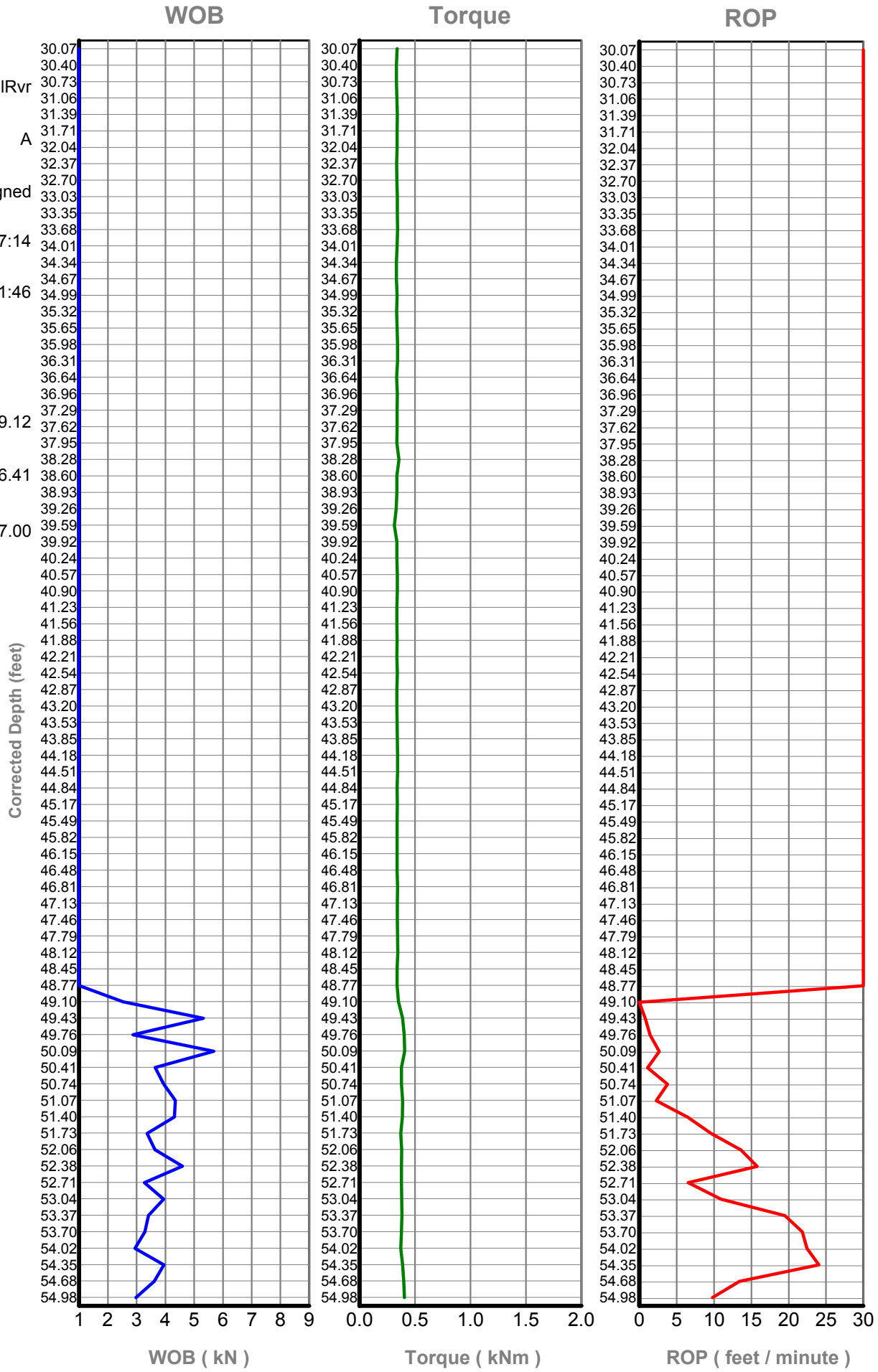
**End Date:**
4/22/2015 3:51:46

**Operator Note:**
'7 7 b Auto Complete'

**Northing:**
367,799.12

**Easting:**
252,886.41

**Tide (feet):**
7.00



## Hole: E194 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:54:36 | 37.40 | 30.30 | 1,469 | 3.18 | 0.15 | 80.3 |
| 4/22/2015 3:54:36 | 37.73 | 30.63 | 1,469 | 3.18 | 0.15 | 80.3 |
| 4/22/2015 3:54:36 | 38.06 | 30.96 | 1,471 | 3.22 | 0.15 | 80.5 |
| 4/22/2015 3:54:37 | 38.39 | 31.29 | 1,471 | 3.22 | 0.15 | 80.5 |
| 4/22/2015 3:54:37 | 38.71 | 31.61 | 1,465 | 3.21 | 0.15 | 80.1 |
| 4/22/2015 3:54:37 | 39.04 | 31.94 | 1,465 | 3.21 | 0.15 | 80.1 |
| 4/22/2015 3:54:37 | 39.37 | 32.27 | 1,465 | 3.21 | 0.15 | 80.1 |
| 4/22/2015 3:54:37 | 39.70 | 32.60 | 1,468 | 3.20 | 0.15 | 80.3 |
| 4/22/2015 3:54:38 | 40.03 | 32.93 | 1,468 | 3.20 | 0.15 | 80.3 |
| 4/22/2015 3:54:38 | 40.35 | 33.25 | 1,459 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 3:54:38 | 40.68 | 33.58 | 1,459 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 3:54:38 | 41.01 | 33.91 | 1,471 | 3.19 | 0.15 | 80.5 |
| 4/22/2015 3:54:39 | 41.34 | 34.24 | 1,471 | 3.19 | 0.15 | 80.5 |
| 4/22/2015 3:54:39 | 41.67 | 34.57 | 1,466 | 3.19 | 0.15 | 80.1 |
| 4/22/2015 3:54:39 | 41.99 | 34.89 | 1,466 | 3.19 | 0.15 | 80.1 |
| 4/22/2015 3:54:39 | 42.32 | 35.22 | 1,469 | 3.19 | 0.15 | 80.3 |
| 4/22/2015 3:54:40 | 42.65 | 35.55 | 1,469 | 3.19 | 0.15 | 80.3 |
| 4/22/2015 3:54:40 | 42.98 | 35.88 | 1,466 | 3.20 | 0.15 | 80.2 |
| 4/22/2015 3:54:40 | 43.31 | 36.21 | 1,466 | 3.20 | 0.15 | 80.2 |
| 4/22/2015 3:54:41 | 43.64 | 36.54 | 1,471 | 3.19 | 0.15 | 80.5 |
| 4/22/2015 3:54:41 | 43.96 | 36.86 | 1,471 | 3.19 | 0.15 | 80.5 |
| 4/22/2015 3:54:41 | 44.29 | 37.19 | 1,471 | 3.19 | 0.15 | 80.5 |
| 4/22/2015 3:54:41 | 44.62 | 37.52 | 1,466 | 3.20 | 0.15 | 80.1 |
| 4/22/2015 3:54:41 | 44.95 | 37.85 | 1,466 | 3.20 | 0.15 | 80.1 |
| 4/22/2015 3:54:42 | 45.28 | 38.18 | 1,463 | 3.21 | 0.15 | 80.0 |
| 4/22/2015 3:54:42 | 45.60 | 38.50 | 1,463 | 3.21 | 0.15 | 80.0 |
| 4/22/2015 3:54:42 | 45.93 | 38.83 | 1,460 | 3.19 | 0.15 | 79.8 |
| 4/22/2015 3:54:42 | 46.26 | 39.16 | 1,460 | 3.19 | 0.15 | 79.8 |
| 4/22/2015 3:54:43 | 46.59 | 39.49 | 1,465 | 3.22 | 0.15 | 80.1 |
| 4/22/2015 3:54:43 | 46.92 | 39.82 | 1,465 | 3.22 | 0.15 | 80.1 |
| 4/22/2015 3:54:43 | 47.24 | 40.14 | 1,460 | 3.18 | 0.15 | 79.8 |
| 4/22/2015 3:54:43 | 47.57 | 40.47 | 1,460 | 3.18 | 0.15 | 79.8 |
| 4/22/2015 3:54:44 | 47.90 | 40.80 | 1,460 | 3.20 | 0.15 | 79.8 |
| 4/22/2015 3:54:44 | 48.23 | 41.13 | 1,460 | 3.20 | 0.15 | 79.8 |
| 4/22/2015 3:54:44 | 48.56 | 41.46 | 1,460 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 3:54:45 | 48.88 | 41.78 | 1,460 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 3:54:45 | 49.21 | 42.11 | 1,460 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 3:54:45 | 49.54 | 42.44 | 1,448 | 3.21 | 0.15 | 79.2 |
| 4/22/2015 3:54:45 | 49.87 | 42.77 | 1,448 | 3.21 | 0.15 | 79.2 |
| 4/22/2015 3:54:45 | 50.20 | 43.10 | 1,461 | 3.20 | 0.15 | 79.9 |
| 4/22/2015 3:54:46 | 50.53 | 43.43 | 1,461 | 3.20 | 0.15 | 79.9 |
| 4/22/2015 3:54:46 | 50.85 | 43.75 | 1,467 | 3.20 | 0.15 | 80.2 |
| 4/22/2015 3:54:46 | 51.18 | 44.08 | 1,467 | 3.20 | 0.15 | 80.2 |
| 4/22/2015 3:54:46 | 51.51 | 44.41 | 1,458 | 3.22 | 0.15 | 79.7 |
| 4/22/2015 3:54:47 | 51.84 | 44.74 | 1,458 | 3.22 | 0.15 | 79.7 |
| 4/22/2015 3:54:47 | 52.17 | 45.07 | 1,464 | 3.19 | 0.15 | 80.0 |
| 4/22/2015 3:54:47 | 52.49 | 45.39 | 1,464 | 3.19 | 0.15 | 80.0 |
| 4/22/2015 3:54:47 | 52.82 | 45.72 | 1,475 | 3.18 | 0.15 | 80.7 |
| 4/22/2015 3:54:48 | 53.15 | 46.05 | 1,475 | 3.18 | 0.15 | 80.7 |
| 4/22/2015 3:54:48 | 53.48 | 46.38 | 1,454 | 3.18 | 0.15 | 79.5 |
| 4/22/2015 3:54:48 | 53.81 | 46.71 | 1,454 | 3.18 | 0.15 | 79.5 |
| 4/22/2015 3:54:48 | 54.13 | 47.03 | 1,445 | 3.20 | 0.15 | 79.0 |
| 4/22/2015 3:54:49 | 54.46 | 47.36 | 1,445 | 3.20 | 0.15 | 79.0 |
| 4/22/2015 3:54:49 | 54.79 | 47.69 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:54:49 | 55.12 | 48.02 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:54:49 | 55.45 | 48.35 | 1,457 | 3.20 | 0.15 | 79.7 |
| 4/22/2015 3:54:50 | 55.77 | 48.67 | 1,448 | 2.95 | 0.15 | 79.2 |
| 4/22/2015 3:55:22 | 56.10 | 49.00 | 76 | 1.91 | 0.94 | 4.1 |
| 4/22/2015 3:55:25 | 56.43 | 49.33 | 72 | 1.96 | 1.27 | 3.9 |
| 4/22/2015 3:55:38 | 56.76 | 49.66 | 0 | 1.74 | 1.04 | 0.0 |
| 4/22/2015 3:55:40 | 57.09 | 49.99 | 124 | 1.70 | 1.07 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:55:49 | 57.41 | 50.31 | 53 | 1.83 | 1.09 | 2.9 |
| 4/22/2015 | 3:55:53 | 57.74 | 50.64 | 69 | 1.76 | 1.16 | 3.8 |
| 4/22/2015 | 3:55:55 | 58.07 | 50.97 | 156 | 1.72 | 1.17 | 8.6 |
| 4/22/2015 | 3:56:35 | 58.40 | 51.30 | 27 | 1.89 | 1.34 | 1.5 |
| 4/22/2015 | 3:56:37 | 58.73 | 51.63 | 137 | 1.76 | 1.17 | 7.5 |
| 4/22/2015 | 3:56:39 | 59.06 | 51.96 | 200 | 1.65 | 1.05 | 10.9 |
| 4/22/2015 | 3:57:05 | 59.38 | 52.28 | 54 | 1.84 | 1.13 | 3.0 |
| 4/22/2015 | 3:57:07 | 59.71 | 52.61 | 181 | 1.76 | 1.09 | 9.9 |
| 4/22/2015 | 3:57:09 | 60.04 | 52.94 | 203 | 1.93 | 1.09 | 11.1 |
| 4/22/2015 | 3:57:13 | 60.37 | 53.27 | 87 | 1.80 | 1.21 | 4.8 |
| 4/22/2015 | 3:57:14 | 60.70 | 53.60 | 208 | 1.79 | 1.15 | 11.4 |
| 4/22/2015 | 3:57:17 | 61.02 | 53.92 | 173 | 1.76 | 1.23 | 9.5 |
| 4/22/2015 | 3:57:18 | 61.35 | 54.25 | 208 | 1.78 | 1.14 | 11.4 |
| 4/22/2015 | 3:57:21 | 61.68 | 54.58 | 140 | 2.04 | 1.53 | 7.6 |
| 4/22/2015 | 3:57:23 | 62.01 | 54.91 | 136 | 1.82 | 1.12 | 7.4 |
| 4/22/2015 | 3:57:24 | 62.16 | 55.06 | 179 | 1.83 | 1.11 | 9.8 |

## E194 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:53:11

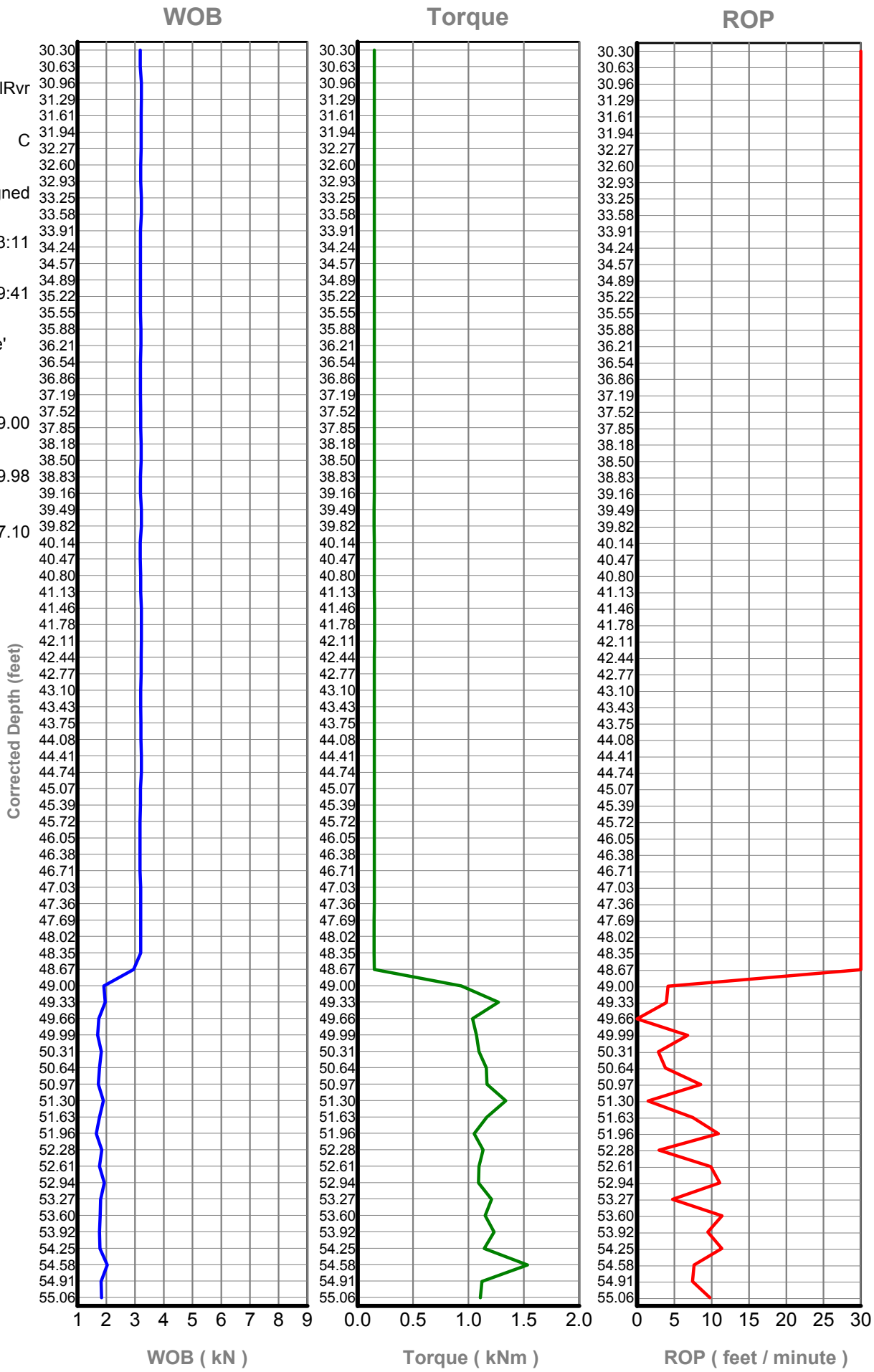
**End Date:**
4/22/2015 3:59:41

**Operator Note:**
'7.1 7.1 c Auto Complete'

**Northing:**
367,839.00

**Easting:**
252,939.98

**Tide (feet):**
7.10



## Hole: E195 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:46:18 | 37.40 | 30.30 | 1,415 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 3:46:18 | 37.73 | 30.63 | 1,452 | 3.17 | 0.15 | 79.4 |
| 4/22/2015 3:46:19 | 38.06 | 30.96 | 1,452 | 3.17 | 0.15 | 79.4 |
| 4/22/2015 3:46:19 | 38.39 | 31.29 | 1,455 | 3.20 | 0.15 | 79.6 |
| 4/22/2015 3:46:19 | 38.71 | 31.61 | 1,455 | 3.20 | 0.15 | 79.6 |
| 4/22/2015 3:46:19 | 39.04 | 31.94 | 1,474 | 3.20 | 0.15 | 80.6 |
| 4/22/2015 3:46:20 | 39.37 | 32.27 | 1,474 | 3.20 | 0.15 | 80.6 |
| 4/22/2015 3:46:20 | 39.70 | 32.60 | 1,450 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:46:20 | 40.03 | 32.93 | 1,450 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:46:21 | 40.35 | 33.25 | 1,450 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:46:21 | 40.68 | 33.58 | 1,450 | 3.20 | 0.15 | 79.3 |
| 4/22/2015 3:46:21 | 41.01 | 33.91 | 1,459 | 3.21 | 0.15 | 79.8 |
| 4/22/2015 3:46:21 | 41.34 | 34.24 | 1,459 | 3.21 | 0.15 | 79.8 |
| 4/22/2015 3:46:22 | 41.67 | 34.57 | 1,451 | 3.19 | 0.15 | 79.3 |
| 4/22/2015 3:46:22 | 41.99 | 34.89 | 1,451 | 3.19 | 0.15 | 79.3 |
| 4/22/2015 3:46:22 | 42.32 | 35.22 | 1,420 | 3.20 | 0.15 | 77.6 |
| 4/22/2015 3:46:22 | 42.65 | 35.55 | 1,420 | 3.20 | 0.15 | 77.6 |
| 4/22/2015 3:46:23 | 42.98 | 35.88 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:46:23 | 43.31 | 36.21 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:46:23 | 43.64 | 36.54 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 3:46:23 | 43.96 | 36.86 | 1,411 | 3.20 | 0.15 | 77.2 |
| 4/22/2015 3:46:23 | 44.29 | 37.19 | 1,411 | 3.20 | 0.15 | 77.2 |
| 4/22/2015 3:46:24 | 44.62 | 37.52 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 3:46:24 | 44.95 | 37.85 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 3:46:24 | 45.28 | 38.18 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 3:46:25 | 45.60 | 38.50 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 3:46:25 | 45.93 | 38.83 | 1,413 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 3:46:25 | 46.26 | 39.16 | 1,413 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 3:46:25 | 46.59 | 39.49 | 1,413 | 3.20 | 0.15 | 77.2 |
| 4/22/2015 3:46:26 | 46.92 | 39.82 | 1,413 | 3.20 | 0.15 | 77.2 |
| 4/22/2015 3:46:26 | 47.24 | 40.14 | 1,418 | 3.19 | 0.15 | 77.6 |
| 4/22/2015 3:46:26 | 47.57 | 40.47 | 1,418 | 3.19 | 0.15 | 77.6 |
| 4/22/2015 3:46:26 | 47.90 | 40.80 | 1,423 | 3.17 | 0.15 | 77.8 |
| 4/22/2015 3:46:27 | 48.23 | 41.13 | 1,423 | 3.17 | 0.15 | 77.8 |
| 4/22/2015 3:46:27 | 48.56 | 41.46 | 1,423 | 3.19 | 0.15 | 77.8 |
| 4/22/2015 3:46:27 | 48.88 | 41.78 | 1,423 | 3.19 | 0.15 | 77.8 |
| 4/22/2015 3:46:27 | 49.21 | 42.11 | 1,426 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:46:28 | 49.54 | 42.44 | 1,426 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:46:28 | 49.87 | 42.77 | 1,426 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:46:28 | 50.20 | 43.10 | 1,426 | 3.20 | 0.15 | 78.0 |
| 4/22/2015 3:46:28 | 50.53 | 43.43 | 1,433 | 3.21 | 0.15 | 78.4 |
| 4/22/2015 3:46:29 | 50.85 | 43.75 | 1,433 | 3.21 | 0.15 | 78.4 |
| 4/22/2015 3:46:29 | 51.18 | 44.08 | 1,433 | 3.21 | 0.15 | 78.4 |
| 4/22/2015 3:46:29 | 51.51 | 44.41 | 1,457 | 3.19 | 0.15 | 79.7 |
| 4/22/2015 3:46:29 | 51.84 | 44.74 | 1,457 | 3.19 | 0.15 | 79.7 |
| 4/22/2015 3:46:29 | 52.17 | 45.07 | 1,409 | 3.19 | 0.15 | 77.1 |
| 4/22/2015 3:46:30 | 52.49 | 45.39 | 1,409 | 3.19 | 0.15 | 77.1 |
| 4/22/2015 3:46:30 | 52.82 | 45.72 | 1,409 | 3.18 | 0.15 | 77.1 |
| 4/22/2015 3:46:30 | 53.15 | 46.05 | 1,409 | 3.18 | 0.15 | 77.1 |
| 4/22/2015 3:46:31 | 53.48 | 46.38 | 1,441 | 3.17 | 0.15 | 78.8 |
| 4/22/2015 3:46:31 | 53.81 | 46.71 | 1,441 | 3.17 | 0.15 | 78.8 |
| 4/22/2015 3:47:00 | 54.13 | 47.03 | 0 | 3.23 | 0.94 | 0.0 |
| 4/22/2015 3:47:02 | 54.46 | 47.36 | 129 | 2.08 | 1.15 | 7.1 |
| 4/22/2015 3:47:03 | 54.79 | 47.69 | 236 | 1.99 | 1.20 | 12.9 |
| 4/22/2015 3:47:08 | 55.12 | 48.02 | 0 | 1.96 | 1.27 | 0.0 |
| 4/22/2015 3:47:10 | 55.45 | 48.35 | 135 | 1.74 | 1.18 | 7.4 |
| 4/22/2015 3:47:21 | 55.77 | 48.67 | 0 | 1.90 | 1.20 | 0.0 |
| 4/22/2015 3:47:22 | 56.10 | 49.00 | 150 | 1.83 | 1.10 | 8.2 |
| 4/22/2015 3:47:44 | 56.43 | 49.33 | 18 | 1.83 | 1.26 | 1.0 |
| 4/22/2015 3:47:45 | 56.76 | 49.66 | 136 | 1.83 | 1.16 | 7.4 |
| 4/22/2015 3:47:58 | 57.09 | 49.99 | 38 | 1.80 | 1.25 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:48:00 | 57.41 | 50.31 | 127 | 1.75 | 1.23 | 7.0 |
| 4/22/2015 | 3:48:19 | 57.74 | 50.64 | 125 | 1.89 | 1.25 | 6.8 |
| 4/22/2015 | 3:48:21 | 58.07 | 50.97 | 211 | 2.10 | 1.27 | 11.6 |
| 4/22/2015 | 3:48:46 | 58.40 | 51.30 | 99 | 1.92 | 1.15 | 5.4 |
| 4/22/2015 | 3:48:47 | 58.73 | 51.63 | 184 | 1.87 | 1.18 | 10.1 |
| 4/22/2015 | 3:48:49 | 59.06 | 51.96 | 221 | 1.85 | 1.35 | 12.1 |
| 4/22/2015 | 3:48:50 | 59.38 | 52.28 | 234 | 1.74 | 1.10 | 12.8 |
| 4/22/2015 | 3:48:57 | 59.71 | 52.61 | 0 | 1.72 | 1.25 | 0.0 |
| 4/22/2015 | 3:48:59 | 60.04 | 52.94 | 130 | 1.76 | 1.00 | 7.1 |
| 4/22/2015 | 3:49:00 | 60.37 | 53.27 | 232 | 1.85 | 1.12 | 12.7 |
| 4/22/2015 | 3:49:26 | 60.70 | 53.60 | 100 | 1.75 | 1.01 | 5.5 |
| 4/22/2015 | 3:49:27 | 61.02 | 53.92 | 216 | 1.76 | 1.15 | 11.8 |
| 4/22/2015 | 3:49:29 | 61.35 | 54.25 | 182 | 1.76 | 1.05 | 9.9 |
| 4/22/2015 | 3:49:30 | 61.68 | 54.58 | 185 | 1.75 | 1.04 | 10.1 |
| 4/22/2015 | 3:49:32 | 62.01 | 54.91 | 260 | 1.79 | 1.39 | 14.2 |
| 4/22/2015 | 3:49:32 | 62.09 | 54.99 | 260 | 1.79 | 1.39 | 14.2 |

## E195 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:45:06

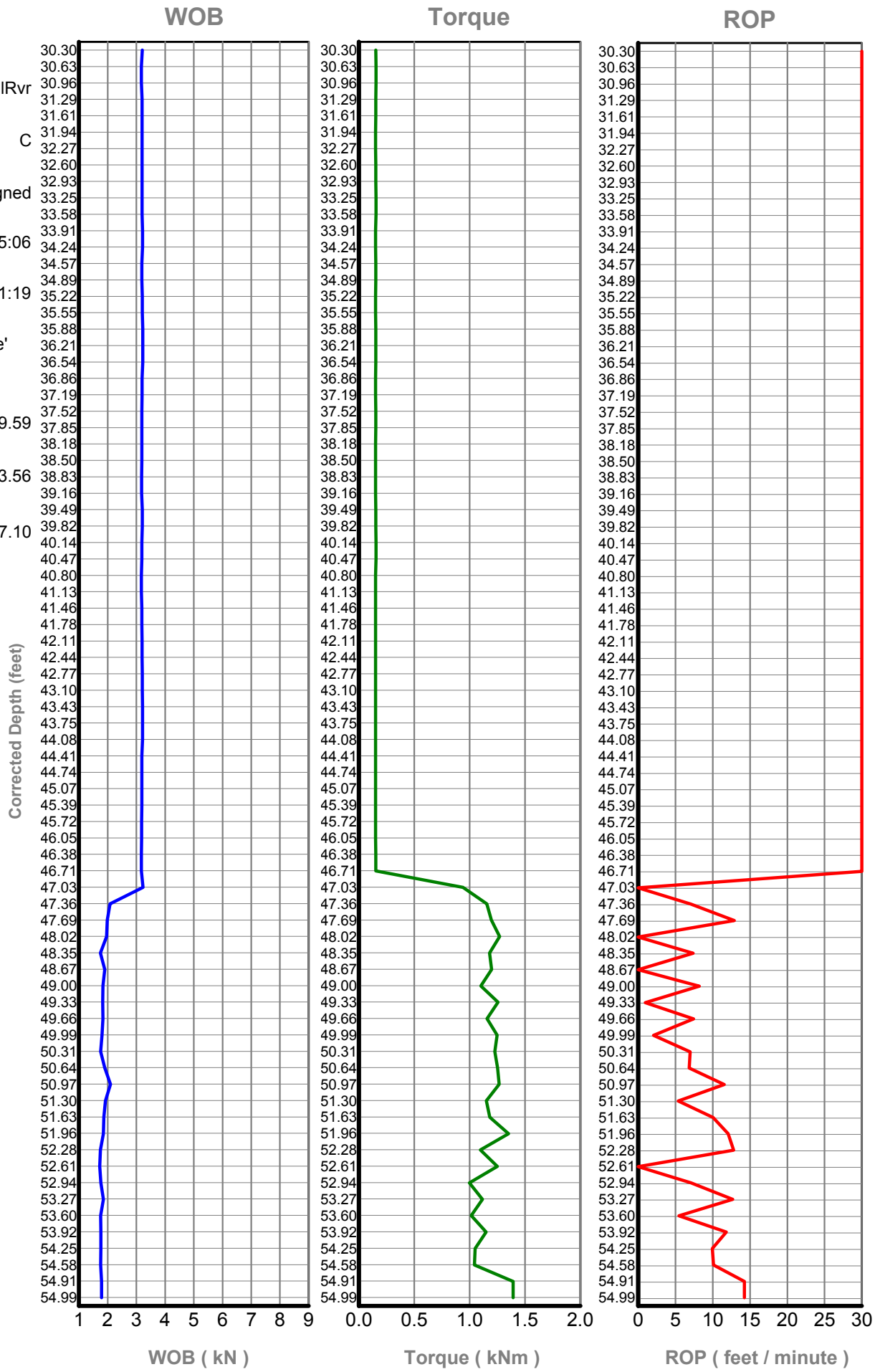
**End Date:**
4/22/2015 3:51:19

**Operator Note:**
'7.1 7.0 c Auto Complete'

**Northing:**
367,879.59

**Easting:**
252,993.56

**Tide (feet):**
7.10



## Hole: E196 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 20:42:48 | 31.82 | 30.12 | 963 | 0.39 | 0.32 | 52.6 |
| 4/21/2015 20:42:48 | 32.15 | 30.45 | 966 | 0.39 | 0.32 | 52.8 |
| 4/21/2015 20:42:49 | 32.48 | 30.78 | 968 | 0.39 | 0.32 | 53.0 |
| 4/21/2015 20:42:49 | 32.81 | 31.11 | 968 | 0.39 | 0.32 | 53.0 |
| 4/21/2015 20:42:50 | 33.14 | 31.44 | 971 | 0.32 | 0.31 | 53.1 |
| 4/21/2015 20:42:50 | 33.46 | 31.76 | 983 | 0.32 | 0.32 | 53.7 |
| 4/21/2015 20:42:51 | 33.79 | 32.09 | 983 | 0.32 | 0.32 | 53.7 |
| 4/21/2015 20:42:51 | 34.12 | 32.42 | 994 | 0.31 | 0.31 | 54.4 |
| 4/21/2015 20:42:51 | 34.45 | 32.75 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/21/2015 20:42:52 | 34.78 | 33.08 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/21/2015 20:42:52 | 35.11 | 33.41 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/21/2015 20:42:52 | 35.43 | 33.73 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/21/2015 20:42:53 | 35.76 | 34.06 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/21/2015 20:42:53 | 36.09 | 34.39 | 1,034 | 0.30 | 0.32 | 56.5 |
| 4/21/2015 20:42:53 | 36.42 | 34.72 | 1,040 | 0.30 | 0.32 | 56.9 |
| 4/21/2015 20:42:54 | 36.75 | 35.05 | 1,040 | 0.30 | 0.32 | 56.9 |
| 4/21/2015 20:42:54 | 37.07 | 35.37 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 20:42:54 | 37.40 | 35.70 | 1,042 | 0.30 | 0.31 | 57.0 |
| 4/21/2015 20:42:55 | 37.73 | 36.03 | 1,042 | 0.30 | 0.31 | 57.0 |
| 4/21/2015 20:42:55 | 38.06 | 36.36 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/21/2015 20:42:55 | 38.39 | 36.69 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/21/2015 20:42:55 | 38.71 | 37.01 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/21/2015 20:42:56 | 39.04 | 37.34 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/21/2015 20:42:56 | 39.37 | 37.67 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/21/2015 20:42:56 | 39.70 | 38.00 | 1,051 | 0.31 | 0.32 | 57.5 |
| 4/21/2015 20:42:57 | 40.03 | 38.33 | 1,057 | 0.30 | 0.31 | 57.8 |
| 4/21/2015 20:42:57 | 40.35 | 38.65 | 1,057 | 0.30 | 0.31 | 57.8 |
| 4/21/2015 20:42:57 | 40.68 | 38.98 | 1,063 | 0.30 | 0.32 | 58.1 |
| 4/21/2015 20:42:58 | 41.01 | 39.31 | 1,054 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:42:58 | 41.34 | 39.64 | 1,054 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:42:58 | 41.67 | 39.97 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/21/2015 20:42:59 | 41.99 | 40.29 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 20:43:00 | 42.32 | 40.62 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/21/2015 20:43:00 | 42.65 | 40.95 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/21/2015 20:43:00 | 42.98 | 41.28 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/21/2015 20:43:01 | 43.31 | 41.61 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/21/2015 20:43:01 | 43.64 | 41.94 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:43:01 | 43.96 | 42.26 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:43:01 | 44.29 | 42.59 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/21/2015 20:43:02 | 44.62 | 42.92 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/21/2015 20:43:02 | 44.95 | 43.25 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/21/2015 20:43:02 | 45.28 | 43.58 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/21/2015 20:43:03 | 45.60 | 43.90 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:43:03 | 45.93 | 44.23 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/21/2015 20:43:03 | 46.26 | 44.56 | 1,067 | 0.30 | 0.31 | 58.4 |
| 4/21/2015 20:43:04 | 46.59 | 44.89 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/21/2015 20:43:04 | 46.92 | 45.22 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/21/2015 20:43:04 | 47.24 | 45.54 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/21/2015 20:43:05 | 47.57 | 45.87 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/21/2015 20:43:05 | 47.90 | 46.20 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/21/2015 20:43:05 | 48.23 | 46.53 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/21/2015 20:43:06 | 48.56 | 46.86 | 1,055 | 0.28 | 0.35 | 57.7 |
| 4/21/2015 20:43:06 | 48.88 | 47.18 | 975 | 0.28 | 0.40 | 53.3 |
| 4/21/2015 20:43:57 | 49.21 | 47.51 | 46 | 5.04 | 0.39 | 2.5 |
| 4/21/2015 20:43:59 | 49.54 | 47.84 | 171 | 3.69 | 0.38 | 9.3 |
| 4/21/2015 20:44:00 | 49.87 | 48.17 | 174 | 4.33 | 0.36 | 9.5 |
| 4/21/2015 20:44:05 | 50.20 | 48.50 | 96 | 5.61 | 0.40 | 5.3 |
| 4/21/2015 20:44:12 | 50.53 | 48.83 | 45 | 4.36 | 0.40 | 2.4 |
| 4/21/2015 20:44:15 | 50.85 | 49.15 | 124 | 3.18 | 0.36 | 6.8 |
| 4/21/2015 20:44:17 | 51.18 | 49.48 | 95 | 3.53 | 0.36 | 5.2 |
| 4/21/2015 20:44:18 | 51.51 | 49.81 | 229 | 3.34 | 0.36 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 20:44:18 | 51.84 | 50.14 | 315 | 2.59 | 0.34 | 17.2 |
| 4/21/2015 | 20:44:22 | 52.17 | 50.47 | 0 | 2.68 | 0.35 | 0.0 |
| 4/21/2015 | 20:44:23 | 52.49 | 50.79 | 165 | 3.17 | 0.37 | 9.0 |
| 4/21/2015 | 20:44:24 | 52.82 | 51.12 | 213 | 2.98 | 0.36 | 11.7 |
| 4/21/2015 | 20:44:26 | 53.15 | 51.45 | 351 | 3.20 | 0.36 | 19.2 |
| 4/21/2015 | 20:44:27 | 53.48 | 51.78 | 275 | 4.26 | 0.41 | 15.0 |
| 4/21/2015 | 20:44:30 | 53.81 | 52.11 | 116 | 3.69 | 0.38 | 6.3 |
| 4/21/2015 | 20:44:33 | 54.13 | 52.43 | 110 | 5.01 | 0.37 | 6.0 |
| 4/21/2015 | 20:44:37 | 54.46 | 52.76 | 60 | 3.24 | 0.38 | 3.3 |
| 4/21/2015 | 20:44:39 | 54.79 | 53.09 | 210 | 3.88 | 0.38 | 11.5 |
| 4/21/2015 | 20:44:48 | 55.12 | 53.42 | 26 | 4.30 | 0.37 | 1.4 |
| 4/21/2015 | 20:44:49 | 55.45 | 53.75 | 179 | 4.14 | 0.38 | 9.8 |
| 4/21/2015 | 20:44:50 | 55.77 | 54.07 | 269 | 3.33 | 0.37 | 14.7 |
| 4/21/2015 | 20:44:51 | 56.10 | 54.40 | 342 | 2.56 | 0.37 | 18.7 |
| 4/21/2015 | 20:45:10 | 56.43 | 54.73 | 0 | 2.99 | 0.37 | 0.0 |
| 4/21/2015 | 20:45:12 | 56.76 | 55.06 | 139 | 3.71 | 0.38 | 7.6 |
| 4/21/2015 | 20:45:15 | 56.90 | 55.20 | 49 | 3.34 | 0.39 | 2.7 |

## E196 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 20:40:19

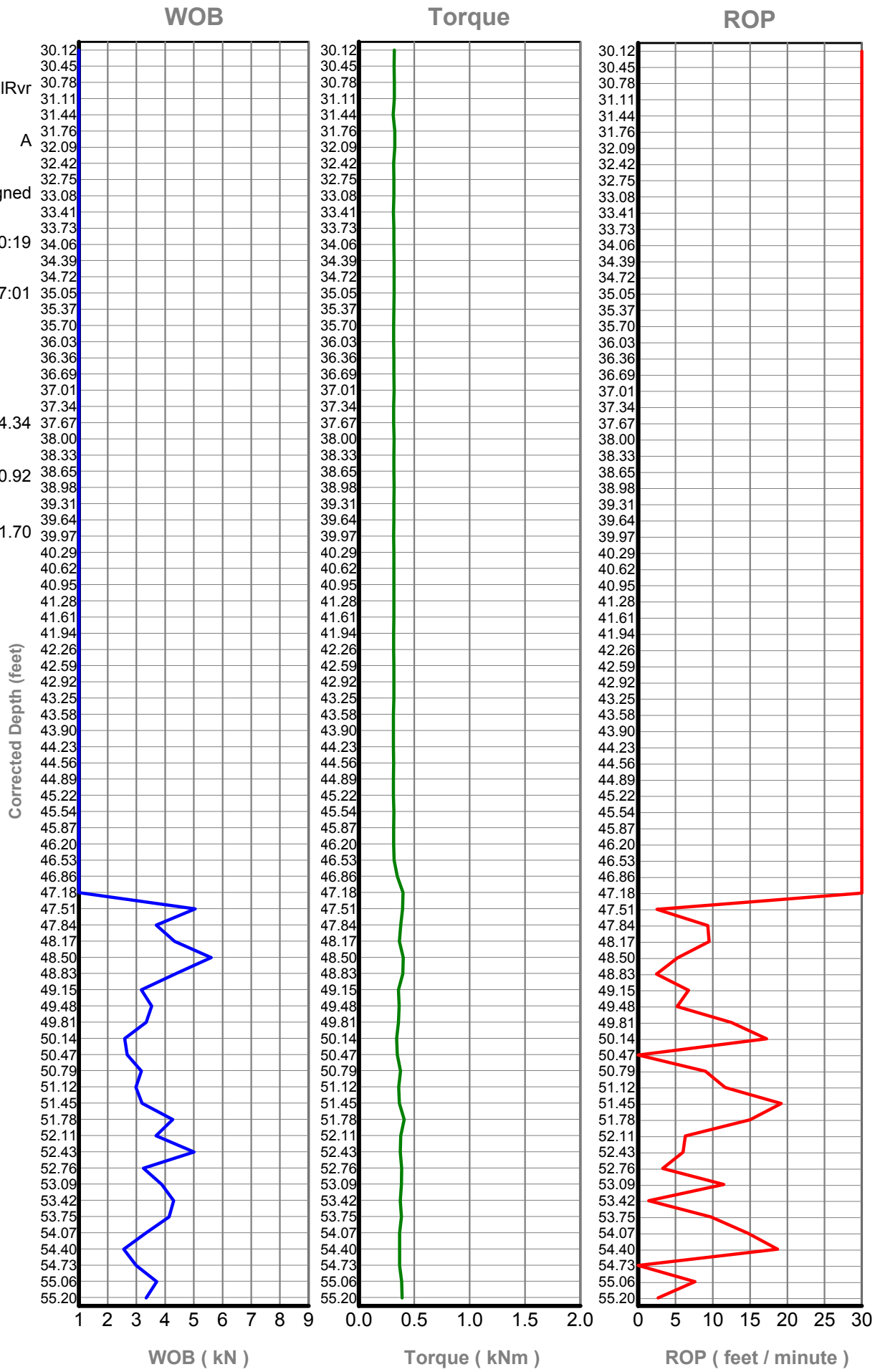
**End Date:**
4/21/2015 20:47:01

**Operator Note:**
'1.7 '2.2 1.9 b Auto Complete'

**Northing:**
367,934.34

**Easting:**
253,060.92

**Tide (feet):**
1.70



## Hole: E197 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 20:18:09 | 32.48 | 30.28 | 923 | 0.81 | 0.33 | 50.5 |
| 4/21/2015 20:18:10 | 32.81 | 30.61 | 923 | 0.81 | 0.33 | 50.5 |
| 4/21/2015 20:18:10 | 33.14 | 30.94 | 937 | 0.80 | 0.33 | 51.3 |
| 4/21/2015 20:18:10 | 33.46 | 31.26 | 939 | 0.81 | 0.33 | 51.4 |
| 4/21/2015 20:18:11 | 33.79 | 31.59 | 931 | 0.81 | 0.33 | 50.9 |
| 4/21/2015 20:18:12 | 34.12 | 31.92 | 931 | 0.81 | 0.33 | 50.9 |
| 4/21/2015 20:18:12 | 34.45 | 32.25 | 931 | 0.81 | 0.33 | 50.9 |
| 4/21/2015 20:18:12 | 34.78 | 32.58 | 937 | 0.81 | 0.33 | 51.2 |
| 4/21/2015 20:18:13 | 35.11 | 32.91 | 922 | 0.81 | 0.34 | 50.4 |
| 4/21/2015 20:18:13 | 35.43 | 33.23 | 922 | 0.81 | 0.34 | 50.4 |
| 4/21/2015 20:18:13 | 35.76 | 33.56 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:14 | 36.09 | 33.89 | 922 | 0.81 | 0.32 | 50.4 |
| 4/21/2015 20:18:14 | 36.42 | 34.22 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:15 | 36.75 | 34.55 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:15 | 37.07 | 34.87 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:15 | 37.40 | 35.20 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:16 | 37.73 | 35.53 | 922 | 0.81 | 0.33 | 50.4 |
| 4/21/2015 20:18:16 | 38.06 | 35.86 | 925 | 0.54 | 0.33 | 50.6 |
| 4/21/2015 20:18:16 | 38.39 | 36.19 | 931 | 0.81 | 0.33 | 50.9 |
| 4/21/2015 20:18:17 | 38.71 | 36.51 | 934 | 0.81 | 0.33 | 51.1 |
| 4/21/2015 20:18:17 | 39.04 | 36.84 | 934 | 0.81 | 0.33 | 51.1 |
| 4/21/2015 20:18:17 | 39.37 | 37.17 | 920 | 0.81 | 0.33 | 50.3 |
| 4/21/2015 20:18:18 | 39.70 | 37.50 | 931 | 0.83 | 0.33 | 50.9 |
| 4/21/2015 20:18:18 | 40.03 | 37.83 | 928 | 0.83 | 0.33 | 50.8 |
| 4/21/2015 20:18:19 | 40.35 | 38.15 | 928 | 0.83 | 0.33 | 50.8 |
| 4/21/2015 20:18:19 | 40.68 | 38.48 | 912 | 0.81 | 0.33 | 49.9 |
| 4/21/2015 20:18:19 | 41.01 | 38.81 | 917 | 0.83 | 0.33 | 50.2 |
| 4/21/2015 20:18:20 | 41.34 | 39.14 | 912 | 0.81 | 0.33 | 49.9 |
| 4/21/2015 20:18:20 | 41.67 | 39.47 | 912 | 0.81 | 0.33 | 49.9 |
| 4/21/2015 20:18:20 | 41.99 | 39.79 | 912 | 0.81 | 0.33 | 49.9 |
| 4/21/2015 20:18:21 | 42.32 | 40.12 | 910 | 0.81 | 0.33 | 49.7 |
| 4/21/2015 20:18:22 | 42.65 | 40.45 | 910 | 0.19 | 0.33 | 49.7 |
| 4/21/2015 20:18:22 | 42.98 | 40.78 | 910 | 0.19 | 0.33 | 49.7 |
| 4/21/2015 20:18:22 | 43.31 | 41.11 | 921 | 0.19 | 0.33 | 50.4 |
| 4/21/2015 20:18:23 | 43.64 | 41.44 | 932 | 0.19 | 0.33 | 51.0 |
| 4/21/2015 20:18:23 | 43.96 | 41.76 | 932 | 0.19 | 0.33 | 51.0 |
| 4/21/2015 20:18:23 | 44.29 | 42.09 | 933 | 0.21 | 0.33 | 51.0 |
| 4/21/2015 20:18:24 | 44.62 | 42.42 | 942 | 0.19 | 0.33 | 51.5 |
| 4/21/2015 20:18:24 | 44.95 | 42.75 | 940 | 0.19 | 0.33 | 51.4 |
| 4/21/2015 20:18:25 | 45.28 | 43.08 | 940 | 0.19 | 0.33 | 51.4 |
| 4/21/2015 20:18:25 | 45.60 | 43.40 | 937 | 0.20 | 0.33 | 51.2 |
| 4/21/2015 20:18:25 | 45.93 | 43.73 | 934 | 0.19 | 0.33 | 51.1 |
| 4/21/2015 20:18:26 | 46.26 | 44.06 | 934 | 0.19 | 0.33 | 51.1 |
| 4/21/2015 20:18:26 | 46.59 | 44.39 | 934 | 0.19 | 0.33 | 51.1 |
| 4/21/2015 20:18:26 | 46.92 | 44.72 | 937 | 0.20 | 0.32 | 51.2 |
| 4/21/2015 20:18:27 | 47.24 | 45.04 | 939 | 0.19 | 0.32 | 51.4 |
| 4/21/2015 20:18:27 | 47.57 | 45.37 | 939 | 0.20 | 0.33 | 51.4 |
| 4/21/2015 20:18:28 | 47.90 | 45.70 | 939 | 0.20 | 0.33 | 51.4 |
| 4/21/2015 20:18:28 | 48.23 | 46.03 | 945 | 0.19 | 0.33 | 51.7 |
| 4/21/2015 20:18:28 | 48.56 | 46.36 | 937 | 0.18 | 0.36 | 51.2 |
| 4/21/2015 20:18:29 | 48.88 | 46.68 | 898 | 0.07 | 0.40 | 49.1 |
| 4/21/2015 20:19:06 | 49.21 | 47.01 | 58 | 3.99 | 0.38 | 3.2 |
| 4/21/2015 20:19:08 | 49.54 | 47.34 | 261 | 5.97 | 0.40 | 14.3 |
| 4/21/2015 20:19:09 | 49.87 | 47.67 | 236 | 3.45 | 0.40 | 12.9 |
| 4/21/2015 20:19:12 | 50.20 | 48.00 | 162 | 3.98 | 0.40 | 8.9 |
| 4/21/2015 20:19:28 | 50.53 | 48.33 | 21 | 5.90 | 0.39 | 1.1 |
| 4/21/2015 20:19:32 | 50.85 | 48.65 | 72 | 8.13 | 0.38 | 3.9 |
| 4/21/2015 20:20:46 | 51.18 | 48.98 | 116 | 3.66 | 0.38 | 6.4 |
| 4/21/2015 20:20:46 | 51.51 | 49.31 | 186 | 3.71 | 0.38 | 10.2 |
| 4/21/2015 20:20:48 | 51.84 | 49.64 | 330 | 4.15 | 0.39 | 18.0 |
| 4/21/2015 20:20:49 | 52.17 | 49.97 | 323 | 4.23 | 0.40 | 17.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 20:20:51 | 52.49 | 50.29 | 237 | 4.19 | 0.39 | 13.0 |
| 4/21/2015 | 20:20:54 | 52.82 | 50.62 | 131 | 4.17 | 0.40 | 7.2 |
| 4/21/2015 | 20:21:47 | 53.15 | 50.95 | 49 | 3.57 | 0.40 | 2.7 |
| 4/21/2015 | 20:21:51 | 53.48 | 51.28 | 95 | 3.73 | 0.41 | 5.2 |
| 4/21/2015 | 20:21:56 | 53.81 | 51.61 | 81 | 3.93 | 0.39 | 4.4 |
| 4/21/2015 | 20:22:01 | 54.13 | 51.93 | 74 | 4.03 | 0.39 | 4.0 |
| 4/21/2015 | 20:22:05 | 54.46 | 52.26 | 86 | 4.09 | 0.40 | 4.7 |
| 4/21/2015 | 20:22:08 | 54.79 | 52.59 | 110 | 4.09 | 0.40 | 6.0 |
| 4/21/2015 | 20:33:21 | 55.12 | 52.92 | 14 | 3.50 | 0.40 | 0.8 |
| 4/21/2015 | 20:33:35 | 55.45 | 53.25 | 69 | 3.53 | 0.39 | 3.8 |
| 4/21/2015 | 20:35:33 | 55.77 | 53.57 | 26 | 3.33 | 0.39 | 1.4 |
| 4/21/2015 | 20:35:38 | 56.10 | 53.90 | 65 | 3.17 | 0.40 | 3.6 |
| 4/21/2015 | 20:35:43 | 56.37 | 54.17 | 66 | 3.19 | 0.39 | 3.6 |

## E197 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 20:08:59

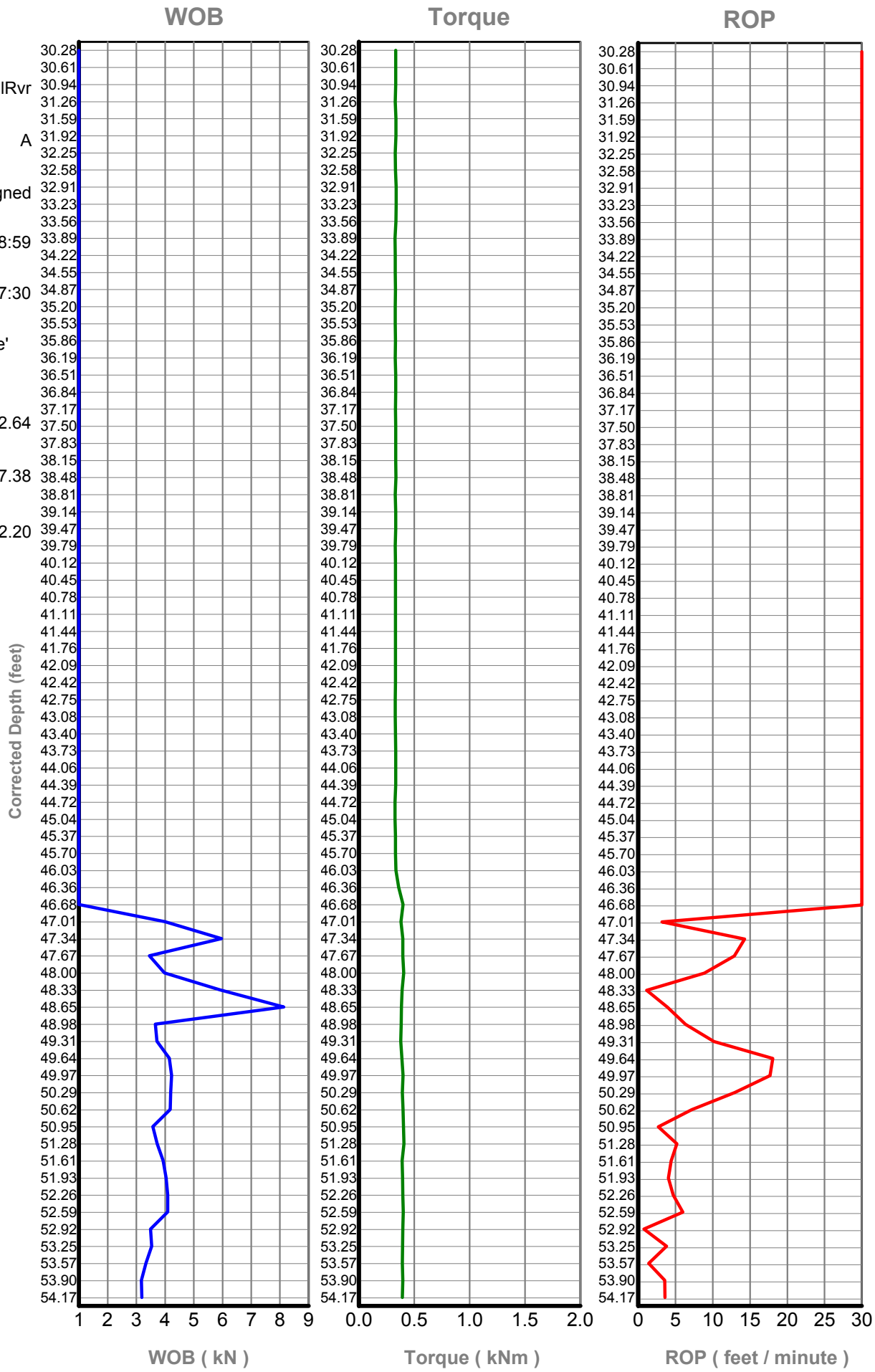
**End Date:**
4/21/2015 20:37:30

**Operator Note:**
'2.2 2.4 b Auto Complete'

**Northing:**
367,972.64

**Easting:**
253,107.38

**Tide (feet):**
2.20



## Hole: E198 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 20:13:17 | 32.48 | 30.28 | 1,384 | 3.30 | 0.16 | 75.7 |
| 4/21/2015 20:13:17 | 32.81 | 30.61 | 1,376 | 3.31 | 0.17 | 75.2 |
| 4/21/2015 20:13:17 | 33.14 | 30.94 | 1,376 | 3.31 | 0.17 | 75.2 |
| 4/21/2015 20:13:18 | 33.46 | 31.26 | 1,379 | 3.27 | 0.15 | 75.4 |
| 4/21/2015 20:13:18 | 33.79 | 31.59 | 1,379 | 3.27 | 0.15 | 75.4 |
| 4/21/2015 20:13:18 | 34.12 | 31.92 | 1,385 | 3.26 | 0.16 | 75.7 |
| 4/21/2015 20:13:18 | 34.45 | 32.25 | 1,385 | 3.26 | 0.16 | 75.7 |
| 4/21/2015 20:13:19 | 34.78 | 32.58 | 1,407 | 3.26 | 0.16 | 76.9 |
| 4/21/2015 20:13:19 | 35.11 | 32.91 | 1,407 | 3.26 | 0.16 | 76.9 |
| 4/21/2015 20:13:19 | 35.43 | 33.23 | 1,396 | 3.26 | 0.16 | 76.4 |
| 4/21/2015 20:13:19 | 35.76 | 33.56 | 1,396 | 3.26 | 0.16 | 76.4 |
| 4/21/2015 20:13:20 | 36.09 | 33.89 | 1,396 | 3.26 | 0.16 | 76.4 |
| 4/21/2015 20:13:20 | 36.42 | 34.22 | 1,396 | 3.26 | 0.16 | 76.4 |
| 4/21/2015 20:13:20 | 36.75 | 34.55 | 1,407 | 3.26 | 0.15 | 77.0 |
| 4/21/2015 20:13:20 | 37.07 | 34.87 | 1,407 | 3.26 | 0.15 | 77.0 |
| 4/21/2015 20:13:21 | 37.40 | 35.20 | 1,396 | 3.28 | 0.16 | 76.4 |
| 4/21/2015 20:13:21 | 37.73 | 35.53 | 1,396 | 3.28 | 0.16 | 76.4 |
| 4/21/2015 20:13:21 | 38.06 | 35.86 | 1,396 | 3.26 | 0.15 | 76.4 |
| 4/21/2015 20:13:22 | 38.39 | 36.19 | 1,396 | 3.26 | 0.15 | 76.4 |
| 4/21/2015 20:13:22 | 38.71 | 36.51 | 1,383 | 3.27 | 0.15 | 75.6 |
| 4/21/2015 20:13:22 | 39.04 | 36.84 | 1,383 | 3.27 | 0.15 | 75.6 |
| 4/21/2015 20:13:22 | 39.37 | 37.17 | 1,406 | 3.28 | 0.16 | 76.9 |
| 4/21/2015 20:13:23 | 39.70 | 37.50 | 1,406 | 3.28 | 0.16 | 76.9 |
| 4/21/2015 20:13:23 | 40.03 | 37.83 | 1,400 | 3.27 | 0.16 | 76.6 |
| 4/21/2015 20:13:23 | 40.35 | 38.15 | 1,400 | 3.27 | 0.16 | 76.6 |
| 4/21/2015 20:13:23 | 40.68 | 38.48 | 1,400 | 3.27 | 0.16 | 76.6 |
| 4/21/2015 20:13:23 | 41.01 | 38.81 | 1,400 | 3.26 | 0.15 | 76.6 |
| 4/21/2015 20:13:24 | 41.34 | 39.14 | 1,400 | 3.26 | 0.15 | 76.6 |
| 4/21/2015 20:13:24 | 41.67 | 39.47 | 1,403 | 3.27 | 0.15 | 76.7 |
| 4/21/2015 20:13:24 | 41.99 | 39.79 | 1,403 | 3.27 | 0.15 | 76.7 |
| 4/21/2015 20:13:24 | 42.32 | 40.12 | 1,422 | 3.28 | 0.16 | 77.8 |
| 4/21/2015 20:13:25 | 42.65 | 40.45 | 1,422 | 3.28 | 0.16 | 77.8 |
| 4/21/2015 20:13:29 | 42.98 | 40.78 | 18 | 3.29 | 0.14 | 1.0 |
| 4/21/2015 20:13:42 | 43.31 | 41.11 | 0 | 1.95 | 0.15 | 0.0 |
| 4/21/2015 20:14:00 | 43.64 | 41.44 | 100 | 3.29 | 0.15 | 5.5 |
| 4/21/2015 20:14:00 | 43.96 | 41.76 | 100 | 3.29 | 0.15 | 5.5 |
| 4/21/2015 20:14:00 | 44.29 | 42.09 | 373 | 3.28 | 0.15 | 20.4 |
| 4/21/2015 20:14:01 | 44.62 | 42.42 | 373 | 3.28 | 0.15 | 20.4 |
| 4/21/2015 20:14:01 | 44.95 | 42.75 | 639 | 3.27 | 0.15 | 35.0 |
| 4/21/2015 20:14:01 | 45.28 | 43.08 | 639 | 3.27 | 0.15 | 35.0 |
| 4/21/2015 20:14:01 | 45.60 | 43.40 | 910 | 3.28 | 0.15 | 49.8 |
| 4/21/2015 20:14:02 | 45.93 | 43.73 | 910 | 3.28 | 0.15 | 49.8 |
| 4/21/2015 20:14:02 | 46.26 | 44.06 | 1,178 | 3.30 | 0.15 | 64.4 |
| 4/21/2015 20:14:03 | 46.59 | 44.39 | 1,178 | 3.30 | 0.15 | 64.4 |
| 4/21/2015 20:14:58 | 46.92 | 44.72 | 26 | 2.09 | 1.29 | 1.4 |
| 4/21/2015 20:15:06 | 47.24 | 45.04 | 49 | 2.01 | 1.20 | 2.7 |
| 4/21/2015 20:15:14 | 47.57 | 45.37 | 41 | 2.04 | 1.13 | 2.2 |
| 4/21/2015 20:15:23 | 47.90 | 45.70 | 43 | 2.02 | 1.23 | 2.4 |

## E198 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 20:11:50

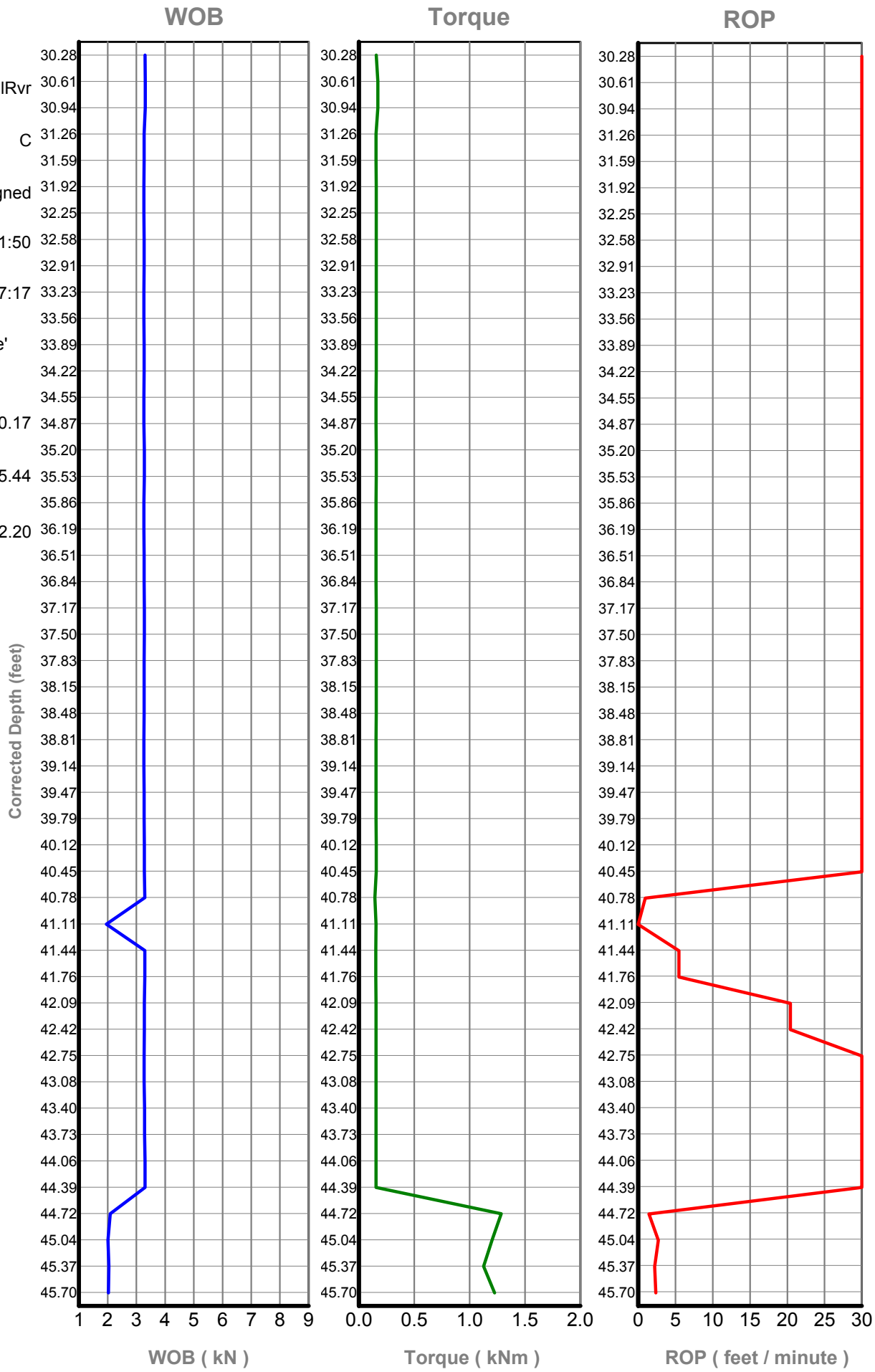
**End Date:**
4/21/2015 20:17:17

**Operator Note:**
'2.2 2.4 c Auto Complete'

**Northing:**
368,020.17

**Easting:**
253,165.44

**Tide (feet):**
2.20



## Hole: E199 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 12:30:39 | 33.46 | 30.16 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:39 | 33.79 | 30.49 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:30:40 | 34.12 | 30.82 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:41 | 34.45 | 31.15 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:41 | 34.78 | 31.48 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:41 | 35.11 | 31.81 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:30:42 | 35.43 | 32.13 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:30:42 | 35.76 | 32.46 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:42 | 36.09 | 32.79 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:43 | 36.42 | 33.12 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:43 | 36.75 | 33.45 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:43 | 37.07 | 33.77 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:44 | 37.40 | 34.10 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:44 | 37.73 | 34.43 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:30:44 | 38.06 | 34.76 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:45 | 38.39 | 35.09 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:45 | 38.71 | 35.41 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:45 | 39.04 | 35.74 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:46 | 39.37 | 36.07 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:46 | 39.70 | 36.40 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:30:46 | 40.03 | 36.73 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:47 | 40.35 | 37.05 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:47 | 40.68 | 37.38 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:47 | 41.01 | 37.71 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:30:48 | 41.34 | 38.04 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:30:48 | 41.67 | 38.37 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:48 | 41.99 | 38.69 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 12:30:49 | 42.32 | 39.02 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 12:30:49 | 42.65 | 39.35 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:49 | 42.98 | 39.68 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:50 | 43.31 | 40.01 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:50 | 43.64 | 40.34 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:50 | 43.96 | 40.66 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:51 | 44.29 | 40.99 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:30:51 | 44.62 | 41.32 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:30:52 | 44.95 | 41.65 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:52 | 45.28 | 41.98 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:52 | 45.60 | 42.30 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 12:30:53 | 45.93 | 42.63 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:53 | 46.26 | 42.96 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:30:53 | 46.59 | 43.29 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 12:30:54 | 46.92 | 43.62 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:30:54 | 47.24 | 43.94 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:30:54 | 47.57 | 44.27 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 12:30:55 | 47.90 | 44.60 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 12:30:55 | 48.23 | 44.93 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 12:31:03 | 48.56 | 45.26 | 26 | 1.73 | 0.21 | 1.4 |
| 4/21/2015 12:31:04 | 48.88 | 45.58 | 161 | 1.73 | 0.21 | 8.8 |
| 4/21/2015 12:31:04 | 49.21 | 45.91 | 161 | 1.73 | 0.21 | 8.8 |
| 4/21/2015 12:31:04 | 49.54 | 46.24 | 324 | 1.73 | 0.21 | 17.7 |
| 4/21/2015 12:31:05 | 49.87 | 46.57 | 469 | 1.73 | 0.21 | 25.6 |
| 4/21/2015 12:31:11 | 50.20 | 46.90 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 12:31:12 | 50.53 | 47.23 | 100 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 12:31:13 | 50.85 | 47.55 | 279 | 1.73 | 0.21 | 15.2 |
| 4/21/2015 12:31:32 | 51.18 | 47.88 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 12:31:34 | 51.51 | 48.21 | 144 | 1.73 | 0.21 | 7.9 |
| 4/21/2015 12:31:39 | 51.84 | 48.54 | 41 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 12:31:47 | 52.17 | 48.87 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 12:31:57 | 52.49 | 49.19 | 41 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 12:32:01 | 52.82 | 49.52 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 12:32:09 | 53.15 | 49.85 | 55 | 1.73 | 0.21 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 12:32:17 | 53.47 | 50.17 | 46 | 1.73 | 0.21 | 2.5 |

## E199 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 12:29:39

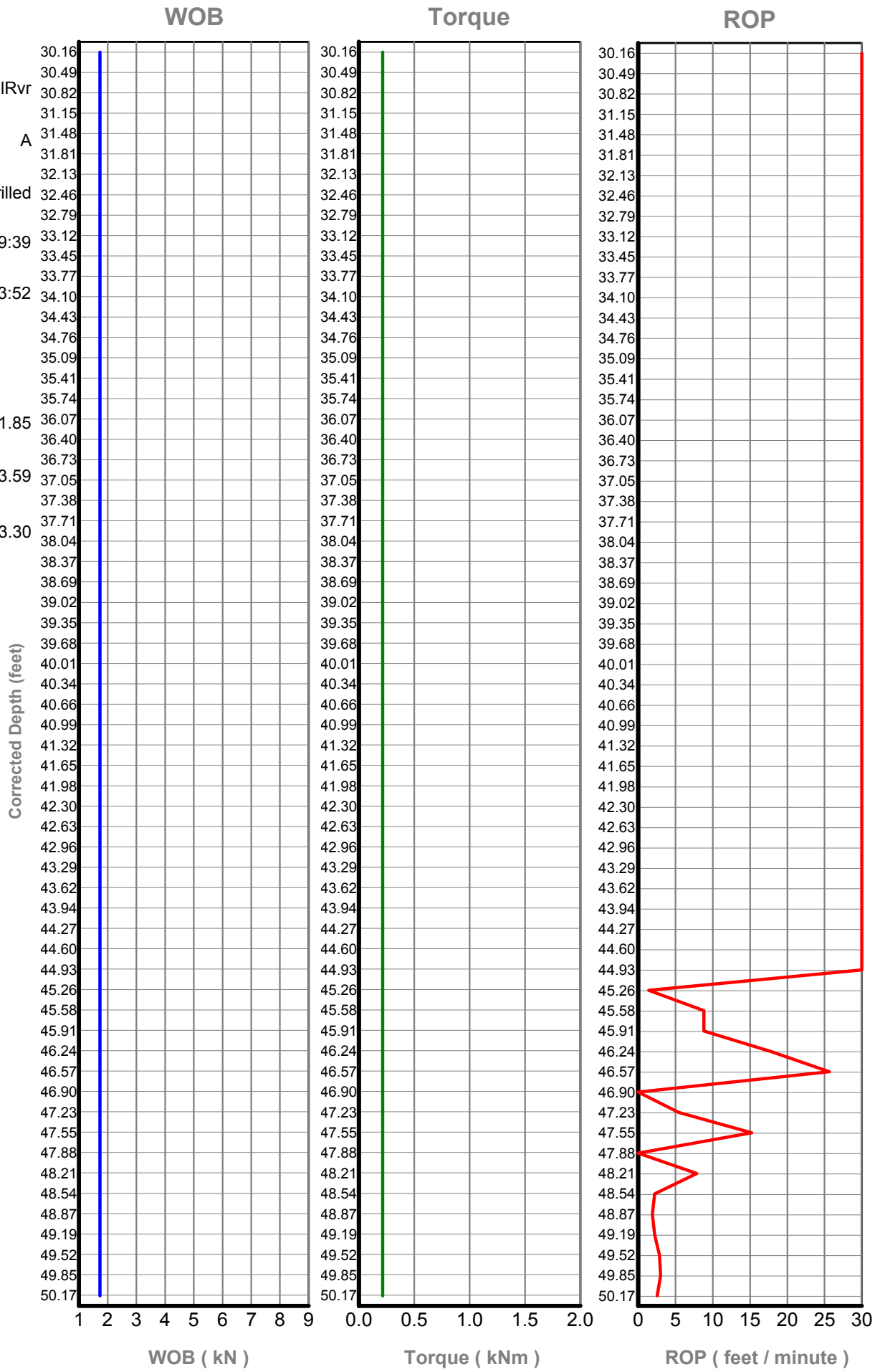
**End Date:**
4/21/2015 12:33:52

**Operator Note:**
'3.3 2.9 b Rock'

**Northing:**
368,081.85

**Easting:**
253,233.59

**Tide (feet):**
3.30



## Hole: E2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 3:22:50 | 37.73 | 30.13 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 3:22:50 | 38.06 | 30.46 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 3:22:50 | 38.39 | 30.79 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 3:22:51 | 38.71 | 31.11 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 3:22:51 | 39.04 | 31.44 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 3:22:51 | 39.37 | 31.77 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 3:22:51 | 39.70 | 32.10 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 3:22:51 | 40.03 | 32.43 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 3:22:52 | 40.35 | 32.75 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 3:22:52 | 40.68 | 33.08 | 1,086 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 3:23:33 | 41.01 | 33.41 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 3:23:34 | 41.34 | 33.74 | 190 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 3:23:38 | 41.67 | 34.07 | 107 | 1.73 | 0.21 | 5.8 |
| 4/21/2015 3:23:49 | 41.99 | 34.39 | 15 | 1.73 | 0.21 | 0.8 |
| 4/21/2015 3:23:52 | 42.32 | 34.72 | 184 | 1.73 | 0.21 | 10.0 |
| 4/21/2015 3:24:01 | 42.65 | 35.05 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 3:24:14 | 42.98 | 35.38 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 3:24:15 | 43.31 | 35.71 | 128 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 3:24:18 | 43.64 | 36.04 | 97 | 1.73 | 0.21 | 5.3 |
| 4/21/2015 3:24:22 | 43.96 | 36.36 | 50 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 3:24:26 | 44.29 | 36.69 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 3:24:30 | 44.62 | 37.02 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 3:24:34 | 44.95 | 37.35 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 3:24:35 | 45.28 | 37.68 | 177 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 3:24:36 | 45.60 | 38.00 | 271 | 1.73 | 0.21 | 14.8 |
| 4/21/2015 3:24:37 | 45.93 | 38.33 | 401 | 1.73 | 0.21 | 21.9 |
| 4/21/2015 3:24:39 | 46.26 | 38.66 | 270 | 1.73 | 0.21 | 14.8 |
| 4/21/2015 3:24:41 | 46.59 | 38.99 | 189 | 1.73 | 0.21 | 10.3 |
| 4/21/2015 3:24:43 | 46.92 | 39.32 | 146 | 1.73 | 0.21 | 8.0 |
| 4/21/2015 3:24:46 | 47.24 | 39.64 | 113 | 1.73 | 0.21 | 6.2 |
| 4/21/2015 3:24:48 | 47.57 | 39.97 | 208 | 1.73 | 0.21 | 11.4 |
| 4/21/2015 3:24:49 | 47.90 | 40.30 | 253 | 1.73 | 0.21 | 13.8 |
| 4/21/2015 3:24:51 | 48.23 | 40.63 | 177 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 3:25:01 | 48.56 | 40.96 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 3:25:21 | 48.88 | 41.28 | 102 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 3:25:38 | 49.21 | 41.61 | 83 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 3:25:41 | 49.54 | 41.94 | 116 | 1.73 | 0.21 | 6.3 |
| 4/21/2015 3:25:48 | 49.87 | 42.27 | 26 | 1.73 | 0.21 | 1.4 |
| 4/21/2015 3:25:50 | 50.20 | 42.60 | 148 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 3:25:51 | 50.53 | 42.93 | 221 | 1.73 | 0.21 | 12.1 |
| 4/21/2015 3:25:52 | 50.85 | 43.25 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 3:25:54 | 51.18 | 43.58 | 262 | 1.73 | 0.21 | 14.3 |
| 4/21/2015 3:25:55 | 51.51 | 43.91 | 294 | 1.73 | 0.21 | 16.1 |
| 4/21/2015 3:25:56 | 51.84 | 44.24 | 322 | 1.73 | 0.21 | 17.6 |
| 4/21/2015 3:25:57 | 52.17 | 44.57 | 327 | 1.73 | 0.21 | 17.9 |
| 4/21/2015 3:25:59 | 52.49 | 44.89 | 299 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 3:26:00 | 52.82 | 45.22 | 305 | 1.73 | 0.21 | 16.7 |
| 4/21/2015 3:26:01 | 53.15 | 45.55 | 315 | 1.73 | 0.21 | 17.2 |
| 4/21/2015 3:26:02 | 53.48 | 45.88 | 285 | 1.73 | 0.21 | 15.6 |
| 4/21/2015 3:26:03 | 53.81 | 46.21 | 276 | 1.73 | 0.21 | 15.1 |
| 4/21/2015 3:26:04 | 54.13 | 46.53 | 314 | 1.73 | 0.21 | 17.2 |
| 4/21/2015 3:26:51 | 54.46 | 46.86 | 56 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 3:26:56 | 54.79 | 47.19 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 3:27:01 | 55.12 | 47.52 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 3:27:12 | 55.45 | 47.85 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 3:43:40 | 55.77 | 48.17 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 3:43:45 | 56.10 | 48.50 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 3:43:50 | 56.43 | 48.83 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 3:43:54 | 56.76 | 49.16 | 82 | 1.73 | 0.21 | 4.5 |
| 4/21/2015 3:46:29 | 57.09 | 49.49 | 36 | 1.73 | 0.21 | 2.0 |
| 4/21/2015 4:07:50 | 57.41 | 49.81 | 18 | 1.73 | 0.21 | 1.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 4:07:51 | 57.74 | 50.14 | 226 | 1.73 | 0.21 | 12.4 |
| 4/21/2015 | 4:07:52 | 58.07 | 50.47 | 332 | 1.73 | 0.21 | 18.2 |
| 4/21/2015 | 4:07:52 | 58.40 | 50.80 | 438 | 1.73 | 0.21 | 24.0 |
| 4/21/2015 | 4:07:54 | 58.73 | 51.13 | 526 | 1.73 | 0.21 | 28.8 |
| 4/21/2015 | 4:07:54 | 59.06 | 51.46 | 528 | 1.73 | 0.21 | 28.9 |
| 4/21/2015 | 4:07:55 | 59.38 | 51.78 | 531 | 1.73 | 0.21 | 29.0 |
| 4/21/2015 | 4:07:55 | 59.71 | 52.11 | 527 | 1.73 | 0.21 | 28.8 |
| 4/21/2015 | 4:07:56 | 60.04 | 52.44 | 531 | 1.73 | 0.21 | 29.0 |
| 4/21/2015 | 4:07:57 | 60.37 | 52.77 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:07:57 | 60.70 | 53.10 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:07:58 | 61.02 | 53.42 | 535 | 1.73 | 0.21 | 29.3 |
| 4/21/2015 | 4:07:59 | 61.35 | 53.75 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:07:59 | 61.68 | 54.08 | 535 | 1.73 | 0.21 | 29.3 |
| 4/21/2015 | 4:08:00 | 62.01 | 54.41 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:08:01 | 62.34 | 54.74 | 529 | 1.73 | 0.21 | 28.9 |
| 4/21/2015 | 4:08:01 | 62.66 | 55.06 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:08:02 | 62.99 | 55.39 | 529 | 1.73 | 0.21 | 28.9 |
| 4/21/2015 | 4:08:03 | 63.32 | 55.72 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:08:03 | 63.65 | 56.05 | 532 | 1.73 | 0.21 | 29.1 |
| 4/21/2015 | 4:08:04 | 63.98 | 56.38 | 529 | 1.73 | 0.21 | 28.9 |
| 4/21/2015 | 4:13:01 | 64.10 | 56.50 | 0 | 1.73 | 0.21 | 0.0 |

## E2 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 3:18:55

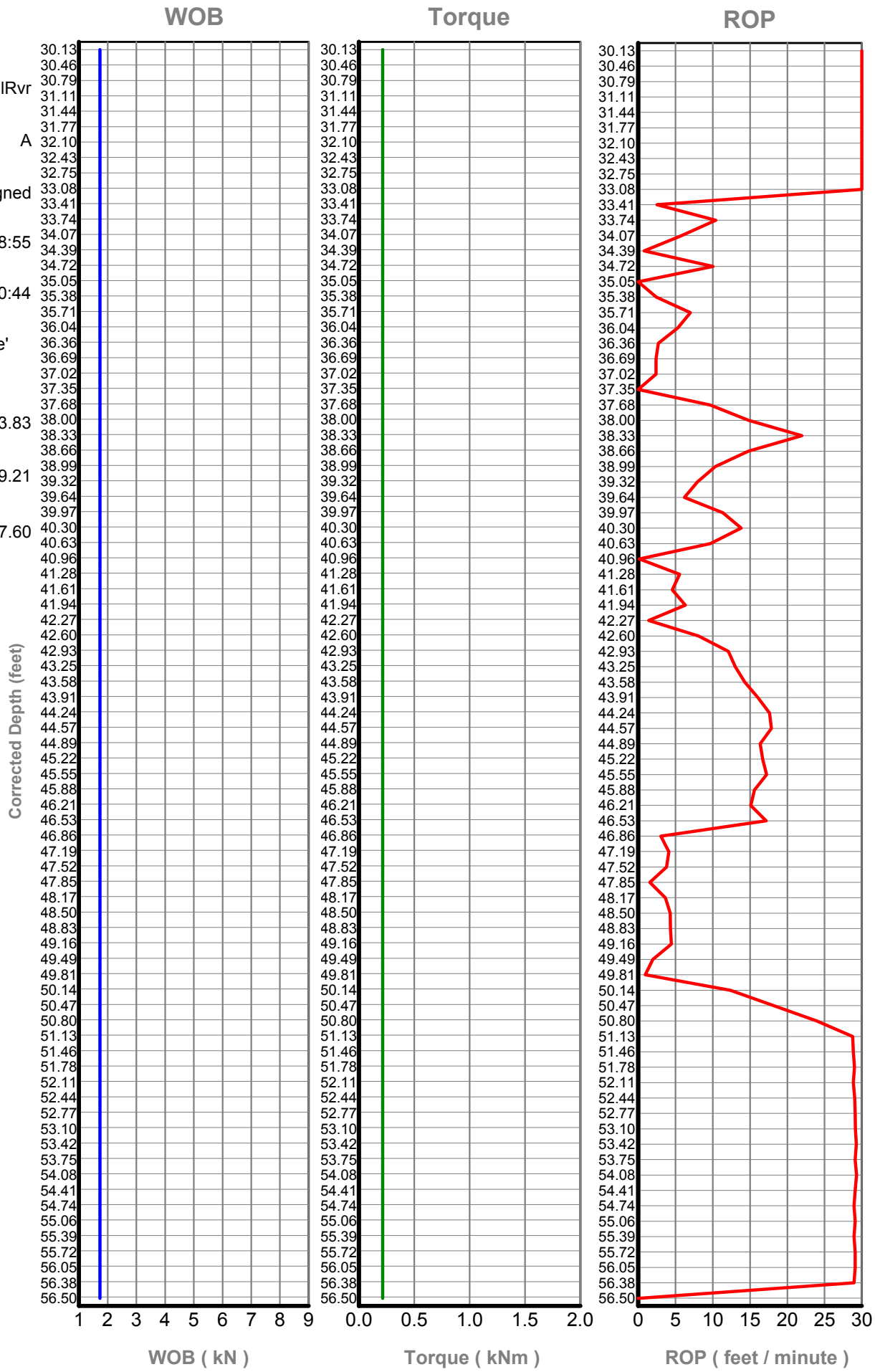
**End Date:**
4/21/2015 5:00:44

**Operator Note:**
'7.6 7.7 b Auto Complete'

**Northing:**
368,803.83

**Easting:**
252,949.21

**Tide (feet):**
7.60



## Hole: E20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:09:49 | 36.09 | 30.29 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:09:50 | 36.42 | 30.62 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:09:50 | 36.75 | 30.95 | 986 | 0.43 | 0.46 | 53.9 |
| 4/20/2015 12:09:50 | 37.07 | 31.27 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:09:51 | 37.40 | 31.60 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:51 | 37.73 | 31.93 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:51 | 38.06 | 32.26 | 974 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:09:52 | 38.39 | 32.59 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:52 | 38.71 | 32.91 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:52 | 39.04 | 33.24 | 971 | 0.43 | 0.46 | 53.1 |
| 4/20/2015 12:09:53 | 39.37 | 33.57 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:53 | 39.70 | 33.90 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:53 | 40.03 | 34.23 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:54 | 40.35 | 34.55 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:54 | 40.68 | 34.88 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:55 | 41.01 | 35.21 | 980 | 0.43 | 0.46 | 53.6 |
| 4/20/2015 12:09:55 | 41.34 | 35.54 | 969 | 0.43 | 0.46 | 53.0 |
| 4/20/2015 12:09:55 | 41.67 | 35.87 | 970 | 0.43 | 0.46 | 53.0 |
| 4/20/2015 12:09:56 | 41.99 | 36.19 | 970 | 0.43 | 0.46 | 53.0 |
| 4/20/2015 12:09:56 | 42.32 | 36.52 | 970 | 0.43 | 0.46 | 53.0 |
| 4/20/2015 12:09:56 | 42.65 | 36.85 | 976 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:09:57 | 42.98 | 37.18 | 967 | 0.43 | 0.46 | 52.9 |
| 4/20/2015 12:09:57 | 43.31 | 37.51 | 967 | 0.43 | 0.46 | 52.9 |
| 4/20/2015 12:09:57 | 43.64 | 37.84 | 983 | 0.43 | 0.46 | 53.8 |
| 4/20/2015 12:09:58 | 43.96 | 38.16 | 974 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:09:58 | 44.29 | 38.49 | 974 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:09:58 | 44.62 | 38.82 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:09:59 | 44.95 | 39.15 | 971 | 0.43 | 0.46 | 53.1 |
| 4/20/2015 12:10:00 | 45.28 | 39.48 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:10:00 | 45.60 | 39.80 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 12:10:00 | 45.93 | 40.13 | 968 | 0.43 | 0.46 | 53.0 |
| 4/20/2015 12:10:01 | 46.26 | 40.46 | 974 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:10:01 | 46.59 | 40.79 | 974 | 0.43 | 0.46 | 53.3 |
| 4/20/2015 12:10:01 | 46.92 | 41.12 | 957 | 0.43 | 0.46 | 52.3 |
| 4/20/2015 12:10:02 | 47.24 | 41.44 | 949 | 0.43 | 0.46 | 51.9 |
| 4/20/2015 12:10:07 | 47.57 | 41.77 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 12:10:13 | 47.90 | 42.10 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 12:10:17 | 48.23 | 42.43 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 12:10:19 | 48.56 | 42.76 | 141 | 0.43 | 0.46 | 7.7 |
| 4/20/2015 12:10:25 | 48.88 | 43.08 | 62 | 0.43 | 0.46 | 3.4 |
| 4/20/2015 12:10:31 | 49.21 | 43.41 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 12:10:38 | 49.54 | 43.74 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 12:10:44 | 49.87 | 44.07 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 12:10:51 | 50.20 | 44.40 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:10:58 | 50.53 | 44.73 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 12:11:00 | 50.64 | 44.84 | 55 | 0.43 | 0.46 | 3.0 |

## E20 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 12:07:53

**End Date:**
4/20/2015 12:12:16

**Operator Note:**
'5.8 5.2 b Auto Complete'

**Northing:**
369,069.48

**Easting:**
253,398.75

**Tide (feet):**
5.80



## Hole: E200 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 12:36:04 | 33.79 | 30.29 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:04 | 34.12 | 30.62 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:05 | 34.45 | 30.95 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:05 | 34.78 | 31.28 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:06 | 35.11 | 31.61 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 12:36:06 | 35.43 | 31.93 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:06 | 35.76 | 32.26 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:07 | 36.09 | 32.59 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:07 | 36.42 | 32.92 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:08 | 36.75 | 33.25 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:08 | 37.07 | 33.57 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 12:36:08 | 37.40 | 33.90 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:09 | 37.73 | 34.23 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:09 | 38.06 | 34.56 | 1,031 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:36:09 | 38.39 | 34.89 | 1,043 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:10 | 38.71 | 35.21 | 1,043 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:10 | 39.04 | 35.54 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:10 | 39.37 | 35.87 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:11 | 39.70 | 36.20 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:36:11 | 40.03 | 36.53 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:36:11 | 40.35 | 36.85 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:36:12 | 40.68 | 37.18 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:36:12 | 41.01 | 37.51 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:12 | 41.34 | 37.84 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:13 | 41.67 | 38.17 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:13 | 41.99 | 38.49 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 12:36:13 | 42.32 | 38.82 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 12:36:14 | 42.65 | 39.15 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 12:36:14 | 42.98 | 39.48 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 12:36:14 | 43.31 | 39.81 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 12:36:15 | 43.64 | 40.14 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 12:36:15 | 43.96 | 40.46 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 12:36:15 | 44.29 | 40.79 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 12:36:16 | 44.62 | 41.12 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 12:36:16 | 44.95 | 41.45 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 12:36:16 | 45.28 | 41.78 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 12:36:17 | 45.60 | 42.10 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 12:36:17 | 45.93 | 42.43 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:18 | 46.26 | 42.76 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 12:36:18 | 46.59 | 43.09 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 12:36:18 | 46.92 | 43.42 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:19 | 47.24 | 43.74 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:19 | 47.57 | 44.07 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:36:19 | 47.90 | 44.40 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 12:36:20 | 48.23 | 44.73 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:20 | 48.56 | 45.06 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:20 | 48.88 | 45.38 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 12:36:21 | 49.21 | 45.71 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:36:21 | 49.54 | 46.04 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:36:21 | 49.87 | 46.37 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 12:36:22 | 50.20 | 46.70 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:22 | 50.53 | 47.03 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 12:36:30 | 50.85 | 47.35 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 12:36:34 | 51.18 | 47.68 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 12:36:35 | 51.51 | 48.01 | 169 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 12:36:36 | 51.84 | 48.34 | 254 | 1.73 | 0.21 | 13.9 |
| 4/21/2015 12:36:36 | 52.17 | 48.67 | 365 | 1.73 | 0.21 | 20.0 |
| 4/21/2015 12:36:37 | 52.49 | 48.99 | 472 | 1.73 | 0.21 | 25.8 |
| 4/21/2015 12:38:38 | 52.82 | 49.32 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 12:38:39 | 53.15 | 49.65 | 60 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 12:38:39 | 53.48 | 49.98 | 233 | 1.73 | 0.21 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 12:38:40 | 53.81 | 50.31 | 394 | 1.73 | 0.21 | 21.6 |
| 4/21/2015 | 12:38:40 | 54.13 | 50.63 | 555 | 1.73 | 0.21 | 30.4 |
| 4/21/2015 | 12:38:41 | 54.46 | 50.96 | 727 | 1.73 | 0.21 | 39.7 |
| 4/21/2015 | 12:38:41 | 54.79 | 51.29 | 727 | 1.73 | 0.21 | 39.7 |
| 4/21/2015 | 12:38:42 | 55.12 | 51.62 | 712 | 1.73 | 0.21 | 38.9 |
| 4/21/2015 | 12:38:46 | 55.45 | 51.95 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 12:38:48 | 55.77 | 52.27 | 173 | 1.73 | 0.21 | 9.4 |
| 4/21/2015 | 12:38:53 | 56.10 | 52.60 | 78 | 1.73 | 0.21 | 4.2 |
| 4/21/2015 | 12:38:58 | 56.43 | 52.93 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 12:39:03 | 56.76 | 53.26 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 12:39:07 | 57.09 | 53.59 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 | 12:39:12 | 57.41 | 53.91 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 12:39:17 | 57.74 | 54.24 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 12:39:19 | 57.90 | 54.40 | 69 | 1.73 | 0.21 | 3.8 |

## E200 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 12:34:40

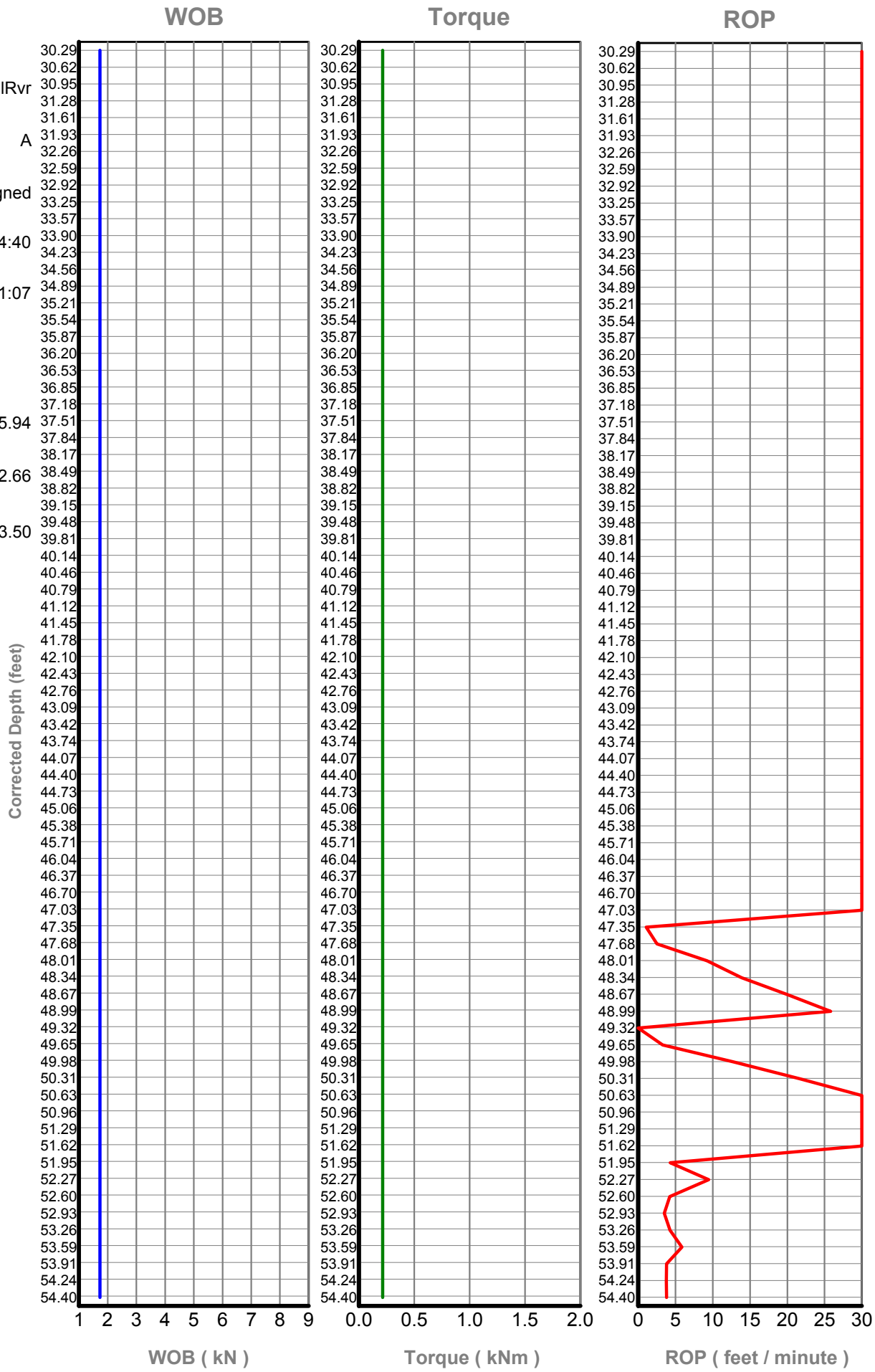
**End Date:**
4/21/2015 12:41:07

**Operator Note:**
'3.5 2.9 b Tide change 3.3'

**Northing:**
368,115.94

**Easting:**
253,282.66

**Tide (feet):**
3.50



## Hole: E201 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 12:43:42 | 33.79 | 30.19 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:43:42 | 34.12 | 30.52 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:43:42 | 34.45 | 30.85 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:43:43 | 34.78 | 31.18 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:43:43 | 35.11 | 31.51 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:43:43 | 35.43 | 31.83 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:43:44 | 35.76 | 32.16 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 12:43:44 | 36.09 | 32.49 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:43:44 | 36.42 | 32.82 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 12:43:45 | 36.75 | 33.15 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 12:43:45 | 37.07 | 33.47 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 12:43:45 | 37.40 | 33.80 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:43:46 | 37.73 | 34.13 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:43:46 | 38.06 | 34.46 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 12:43:46 | 38.39 | 34.79 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 12:43:47 | 38.71 | 35.11 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 12:43:47 | 39.04 | 35.44 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 12:43:47 | 39.37 | 35.77 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 12:43:48 | 39.70 | 36.10 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 12:43:48 | 40.03 | 36.43 | 1,016 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 12:43:49 | 40.35 | 36.75 | 996 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 12:43:49 | 40.68 | 37.08 | 999 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 12:43:50 | 41.01 | 37.41 | 999 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 12:43:50 | 41.34 | 37.74 | 999 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 12:43:50 | 41.67 | 38.07 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 12:44:01 | 41.99 | 38.39 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 12:44:02 | 42.32 | 38.72 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 12:44:02 | 42.65 | 39.05 | 141 | 1.73 | 0.21 | 7.7 |
| 4/21/2015 12:44:02 | 42.98 | 39.38 | 141 | 1.73 | 0.21 | 7.7 |
| 4/21/2015 12:44:03 | 43.31 | 39.71 | 141 | 1.73 | 0.21 | 7.7 |
| 4/21/2015 12:44:03 | 43.64 | 40.04 | 362 | 1.73 | 0.21 | 19.8 |
| 4/21/2015 12:44:03 | 43.96 | 40.36 | 574 | 1.73 | 0.21 | 31.4 |
| 4/21/2015 12:44:04 | 44.29 | 40.69 | 574 | 1.73 | 0.21 | 31.4 |
| 4/21/2015 12:44:04 | 44.62 | 41.02 | 768 | 1.73 | 0.21 | 42.0 |
| 4/21/2015 12:44:04 | 44.95 | 41.35 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 12:44:05 | 45.28 | 41.68 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 12:44:05 | 45.60 | 42.00 | 1,051 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 12:44:05 | 45.93 | 42.33 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 12:44:06 | 46.26 | 42.66 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 12:44:06 | 46.59 | 42.99 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 12:44:06 | 46.92 | 43.32 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 12:44:06 | 47.24 | 43.64 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:44:07 | 47.57 | 43.97 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 12:44:07 | 47.90 | 44.30 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 12:44:07 | 48.23 | 44.63 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 12:44:08 | 48.56 | 44.96 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:44:08 | 48.88 | 45.28 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:44:08 | 49.21 | 45.61 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 12:44:09 | 49.54 | 45.94 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 12:44:09 | 49.87 | 46.27 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 12:44:09 | 50.20 | 46.60 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 12:44:10 | 50.53 | 46.93 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:44:10 | 50.85 | 47.25 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 12:44:10 | 51.18 | 47.58 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:44:11 | 51.51 | 47.91 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 12:44:12 | 51.84 | 48.24 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 12:44:12 | 52.17 | 48.57 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 12:44:12 | 52.49 | 48.89 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 12:44:13 | 52.82 | 49.22 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 12:44:13 | 53.15 | 49.55 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 12:44:13 | 53.48 | 49.88 | 1,006 | 1.73 | 0.21 | 55.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 12:44:25 | 53.81 | 50.21 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 12:44:26 | 54.13 | 50.53 | 106 | 1.73 | 0.21 | 5.8 |
| 4/21/2015 | 12:44:26 | 54.46 | 50.86 | 300 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 | 12:44:27 | 54.79 | 51.19 | 300 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 | 12:44:27 | 55.12 | 51.52 | 488 | 1.73 | 0.21 | 26.7 |
| 4/21/2015 | 12:44:27 | 55.45 | 51.85 | 668 | 1.73 | 0.21 | 36.5 |
| 4/21/2015 | 12:44:28 | 55.77 | 52.17 | 854 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 | 12:44:28 | 56.10 | 52.50 | 854 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 | 12:44:28 | 56.43 | 52.83 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 | 12:44:29 | 56.76 | 53.16 | 916 | 1.73 | 0.21 | 50.1 |
| 4/21/2015 | 12:44:29 | 57.09 | 53.49 | 893 | 1.73 | 0.21 | 48.9 |
| 4/21/2015 | 12:44:30 | 57.41 | 53.81 | 893 | 1.73 | 0.21 | 48.8 |
| 4/21/2015 | 12:44:30 | 57.74 | 54.14 | 827 | 1.73 | 0.21 | 45.2 |
| 4/21/2015 | 12:44:31 | 58.07 | 54.47 | 719 | 1.73 | 0.21 | 39.3 |
| 4/21/2015 | 12:44:32 | 58.40 | 54.80 | 556 | 1.73 | 0.21 | 30.4 |
| 4/21/2015 | 12:44:33 | 58.62 | 55.02 | 335 | 1.73 | 0.21 | 18.3 |

## E201 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 12:42:21

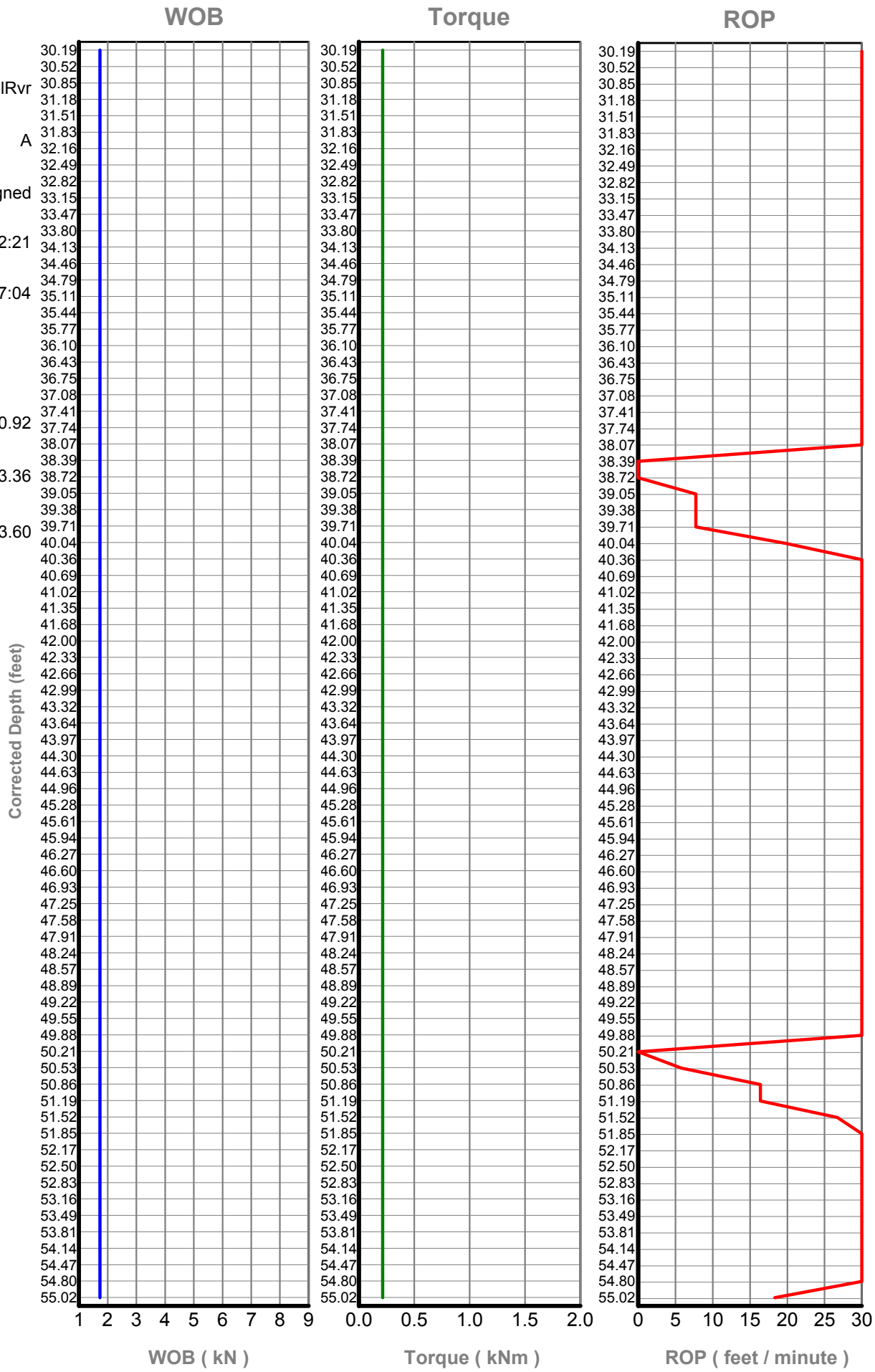
**End Date:**
4/21/2015 12:47:04

**Operator Note:**
'3.6 '2.7 3.5 b Auto Complete'

**Northing:**
368,160.92

**Easting:**
253,343.36

**Tide (feet):**
3.60



## Hole: E202 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:22:51 | 31.50 | 30.10 | 1,034 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:22:52 | 31.82 | 30.42 | 1,034 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:22:52 | 32.15 | 30.75 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:22:52 | 32.48 | 31.08 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:22:53 | 32.81 | 31.41 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:22:53 | 33.14 | 31.74 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:22:53 | 33.46 | 32.06 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:22:54 | 33.79 | 32.39 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:22:54 | 34.12 | 32.72 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:22:54 | 34.45 | 33.05 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:22:55 | 34.78 | 33.38 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:22:55 | 35.11 | 33.71 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/20/2015 21:22:55 | 35.43 | 34.03 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:22:56 | 35.76 | 34.36 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:22:56 | 36.09 | 34.69 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/20/2015 21:22:56 | 36.42 | 35.02 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 21:22:57 | 36.75 | 35.35 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/20/2015 21:22:57 | 37.07 | 35.67 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:22:57 | 37.40 | 36.00 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:22:58 | 37.73 | 36.33 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:22:58 | 38.06 | 36.66 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:22:58 | 38.39 | 36.99 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:22:59 | 38.71 | 37.31 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:22:59 | 39.04 | 37.64 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:23:00 | 39.37 | 37.97 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:23:00 | 39.70 | 38.30 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:23:00 | 40.03 | 38.63 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:23:01 | 40.35 | 38.95 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:23:01 | 40.68 | 39.28 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:23:01 | 41.01 | 39.61 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/20/2015 21:23:02 | 41.34 | 39.94 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:23:02 | 41.67 | 40.27 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/20/2015 21:23:02 | 41.99 | 40.59 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:23:03 | 42.32 | 40.92 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:23:03 | 42.65 | 41.25 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:23:03 | 42.98 | 41.58 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:23:04 | 43.31 | 41.91 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:04 | 43.64 | 42.24 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:04 | 43.96 | 42.56 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 21:23:05 | 44.29 | 42.89 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:05 | 44.62 | 43.22 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:05 | 44.95 | 43.55 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:06 | 45.28 | 43.88 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:23:06 | 45.60 | 44.20 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:23:06 | 45.93 | 44.53 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:23:07 | 46.26 | 44.86 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:23:07 | 46.59 | 45.19 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 21:23:07 | 46.92 | 45.52 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:23:08 | 47.24 | 45.84 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/20/2015 21:23:08 | 47.57 | 46.17 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/20/2015 21:23:08 | 47.90 | 46.50 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 21:23:09 | 48.23 | 46.83 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/20/2015 21:23:09 | 48.56 | 47.16 | 1,028 | 1.73 | 0.21 | 56.2 |
| 4/20/2015 21:23:09 | 48.88 | 47.48 | 1,036 | 1.73 | 0.21 | 56.6 |
| 4/20/2015 21:23:10 | 49.21 | 47.81 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:11 | 49.54 | 48.14 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:11 | 49.87 | 48.47 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 21:23:11 | 50.20 | 48.80 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:12 | 50.53 | 49.13 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/20/2015 21:23:12 | 50.85 | 49.45 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 21:23:12 | 51.18 | 49.78 | 1,030 | 1.73 | 0.21 | 56.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 21:23:13 | 51.51 | 50.11 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 | 21:23:13 | 51.84 | 50.44 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 | 21:23:13 | 52.17 | 50.77 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 | 21:23:14 | 52.49 | 51.09 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 | 21:23:36 | 52.82 | 51.42 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 | 21:23:44 | 53.15 | 51.75 | 6 | 1.73 | 0.21 | 0.3 |
| 4/20/2015 | 21:23:48 | 53.48 | 52.08 | 17 | 1.73 | 0.21 | 0.9 |
| 4/20/2015 | 21:23:51 | 53.81 | 52.41 | 159 | 1.73 | 0.21 | 8.7 |
| 4/20/2015 | 21:23:52 | 54.13 | 52.73 | 124 | 1.73 | 0.21 | 6.8 |
| 4/20/2015 | 21:23:53 | 54.46 | 53.06 | 248 | 1.73 | 0.21 | 13.6 |
| 4/20/2015 | 21:23:53 | 54.79 | 53.39 | 349 | 1.73 | 0.21 | 19.1 |
| 4/20/2015 | 21:23:54 | 55.12 | 53.72 | 477 | 1.73 | 0.21 | 26.1 |
| 4/20/2015 | 21:23:55 | 55.45 | 54.05 | 495 | 1.73 | 0.21 | 27.0 |
| 4/20/2015 | 21:23:58 | 55.77 | 54.37 | 101 | 1.73 | 0.21 | 5.5 |
| 4/20/2015 | 21:24:03 | 56.10 | 54.70 | 47 | 1.73 | 0.21 | 2.5 |
| 4/20/2015 | 21:24:07 | 56.39 | 54.99 | 56 | 1.73 | 0.21 | 3.1 |

## E202 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 21:19:18

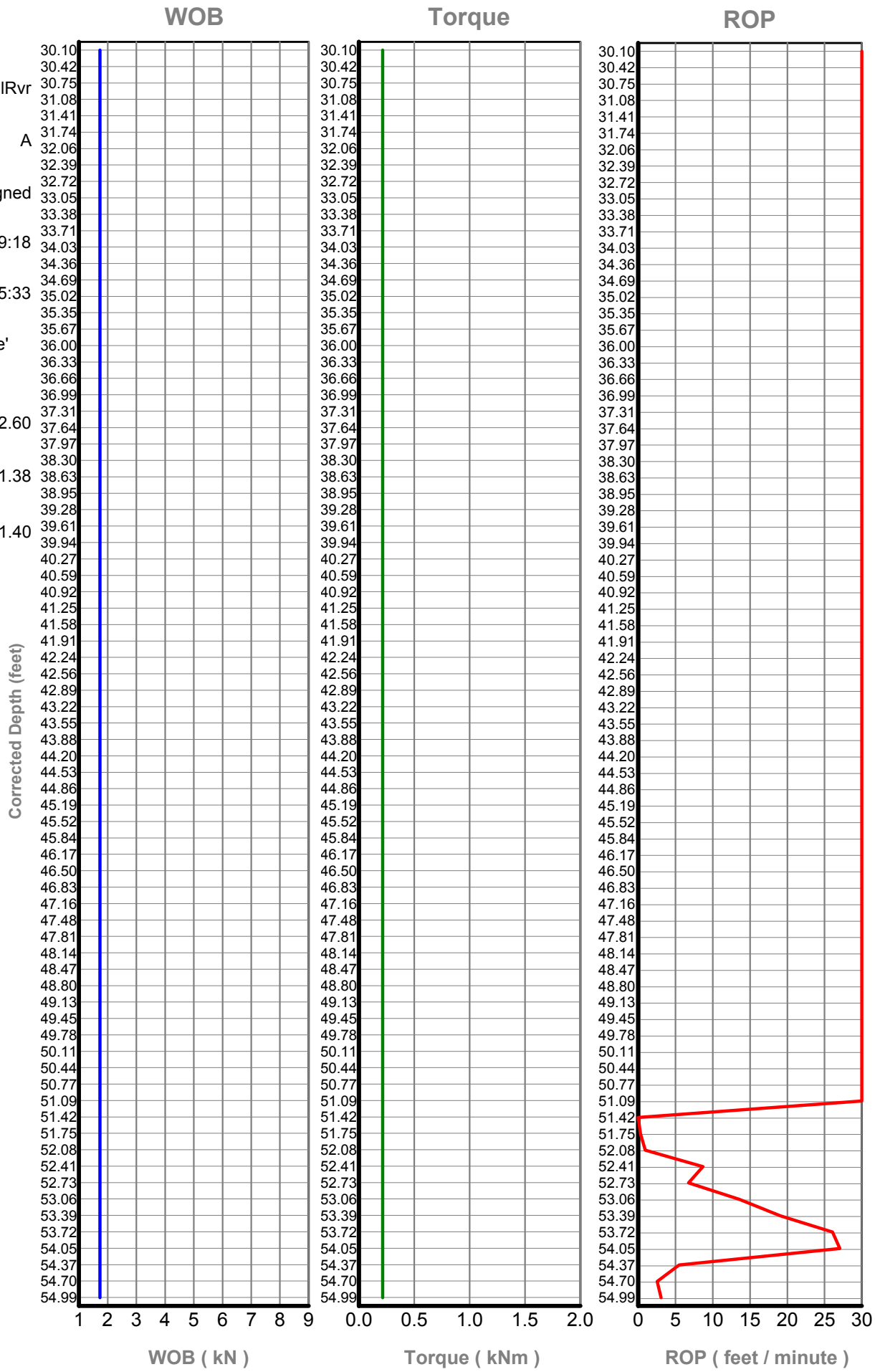
**End Date:**
4/20/2015 21:25:33

**Operator Note:**
'1.4 1.4 b Auto Complete'

**Northing:**
368,252.60

**Easting:**
253,461.38

**Tide (feet):**
1.40



## Hole: E203 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:06:42 | 31.82 | 30.32 | 306 | 1.40 | 0.13 | 16.8 |
| 4/20/2015 21:06:43 | 32.15 | 30.65 | 304 | 1.47 | 0.13 | 16.6 |
| 4/20/2015 21:06:44 | 32.48 | 30.98 | 306 | 1.43 | 0.13 | 16.8 |
| 4/20/2015 21:06:46 | 32.81 | 31.31 | 305 | 1.45 | 0.13 | 16.7 |
| 4/20/2015 21:06:47 | 33.14 | 31.64 | 304 | 1.38 | 0.13 | 16.6 |
| 4/20/2015 21:06:48 | 33.46 | 31.96 | 300 | 1.40 | 0.13 | 16.4 |
| 4/20/2015 21:06:49 | 33.79 | 32.29 | 304 | 1.40 | 0.13 | 16.6 |
| 4/20/2015 21:06:50 | 34.12 | 32.62 | 310 | 1.45 | 0.13 | 17.0 |
| 4/20/2015 21:06:52 | 34.45 | 32.95 | 306 | 1.43 | 0.13 | 16.8 |
| 4/20/2015 21:06:53 | 34.78 | 33.28 | 305 | 1.47 | 0.13 | 16.7 |
| 4/20/2015 21:06:54 | 35.11 | 33.61 | 305 | 1.36 | 0.13 | 16.7 |
| 4/20/2015 21:06:55 | 35.43 | 33.93 | 306 | 1.42 | 0.13 | 16.8 |
| 4/20/2015 21:06:56 | 35.76 | 34.26 | 302 | 1.46 | 0.13 | 16.5 |
| 4/20/2015 21:06:57 | 36.09 | 34.59 | 301 | 1.46 | 0.13 | 16.4 |
| 4/20/2015 21:06:58 | 36.42 | 34.92 | 296 | 1.42 | 0.13 | 16.2 |
| 4/20/2015 21:07:00 | 36.75 | 35.25 | 301 | 1.40 | 0.13 | 16.4 |
| 4/20/2015 21:07:01 | 37.07 | 35.57 | 301 | 1.45 | 0.13 | 16.4 |
| 4/20/2015 21:07:02 | 37.40 | 35.90 | 302 | 1.40 | 0.13 | 16.5 |
| 4/20/2015 21:07:03 | 37.73 | 36.23 | 303 | 1.41 | 0.13 | 16.5 |
| 4/20/2015 21:07:05 | 38.06 | 36.56 | 300 | 1.49 | 0.13 | 16.4 |
| 4/20/2015 21:07:06 | 38.39 | 36.89 | 303 | 1.40 | 0.13 | 16.6 |
| 4/20/2015 21:07:07 | 38.71 | 37.21 | 301 | 1.45 | 0.13 | 16.4 |
| 4/20/2015 21:07:08 | 39.04 | 37.54 | 307 | 1.41 | 0.13 | 16.8 |
| 4/20/2015 21:07:09 | 39.37 | 37.87 | 304 | 1.43 | 0.13 | 16.6 |
| 4/20/2015 21:07:10 | 39.70 | 38.20 | 304 | 1.40 | 0.13 | 16.6 |
| 4/20/2015 21:07:11 | 40.03 | 38.53 | 304 | 1.46 | 0.13 | 16.6 |
| 4/20/2015 21:07:13 | 40.35 | 38.85 | 304 | 1.43 | 0.13 | 16.6 |
| 4/20/2015 21:07:14 | 40.68 | 39.18 | 304 | 1.44 | 0.13 | 16.6 |
| 4/20/2015 21:07:15 | 41.01 | 39.51 | 304 | 1.40 | 0.13 | 16.6 |
| 4/20/2015 21:07:16 | 41.34 | 39.84 | 304 | 1.46 | 0.13 | 16.6 |
| 4/20/2015 21:07:17 | 41.67 | 40.17 | 300 | 1.42 | 0.13 | 16.4 |
| 4/20/2015 21:07:19 | 41.99 | 40.49 | 304 | 1.43 | 0.13 | 16.6 |
| 4/20/2015 21:07:20 | 42.32 | 40.82 | 307 | 1.41 | 0.13 | 16.8 |
| 4/20/2015 21:07:21 | 42.65 | 41.15 | 301 | 1.44 | 0.13 | 16.4 |
| 4/20/2015 21:07:23 | 42.98 | 41.48 | 300 | 1.46 | 0.13 | 16.4 |
| 4/20/2015 21:07:24 | 43.31 | 41.81 | 298 | 1.41 | 0.13 | 16.3 |
| 4/20/2015 21:07:25 | 43.64 | 42.14 | 290 | 1.43 | 0.13 | 15.8 |
| 4/20/2015 21:07:26 | 43.96 | 42.46 | 295 | 1.39 | 0.13 | 16.1 |
| 4/20/2015 21:07:27 | 44.29 | 42.79 | 305 | 1.45 | 0.13 | 16.7 |
| 4/20/2015 21:07:28 | 44.62 | 43.12 | 303 | 1.43 | 0.13 | 16.5 |
| 4/20/2015 21:07:29 | 44.95 | 43.45 | 294 | 1.43 | 0.13 | 16.1 |
| 4/20/2015 21:07:31 | 45.28 | 43.78 | 299 | 1.38 | 0.14 | 16.3 |
| 4/20/2015 21:07:32 | 45.60 | 44.10 | 300 | 1.51 | 0.13 | 16.4 |
| 4/20/2015 21:07:34 | 45.93 | 44.43 | 269 | 1.57 | 0.13 | 14.7 |
| 4/20/2015 21:09:23 | 46.26 | 44.76 | 51 | 1.33 | 0.83 | 2.8 |
| 4/20/2015 21:09:24 | 46.59 | 45.09 | 176 | 1.33 | 0.82 | 9.6 |
| 4/20/2015 21:09:26 | 46.92 | 45.42 | 168 | 1.43 | 0.81 | 9.2 |
| 4/20/2015 21:09:28 | 47.24 | 45.74 | 164 | 1.37 | 0.81 | 9.0 |
| 4/20/2015 21:09:29 | 47.57 | 46.07 | 181 | 1.41 | 0.81 | 9.9 |
| 4/20/2015 21:09:30 | 47.90 | 46.40 | 306 | 1.38 | 0.81 | 16.7 |
| 4/20/2015 21:09:36 | 48.23 | 46.73 | 0 | 1.51 | 0.81 | 0.0 |
| 4/20/2015 21:09:38 | 48.56 | 47.06 | 113 | 1.51 | 0.81 | 6.2 |
| 4/20/2015 21:09:39 | 48.88 | 47.38 | 248 | 1.49 | 0.81 | 13.6 |
| 4/20/2015 21:09:40 | 49.21 | 47.71 | 333 | 1.50 | 0.81 | 18.2 |
| 4/20/2015 21:09:41 | 49.54 | 48.04 | 335 | 1.51 | 0.80 | 18.3 |
| 4/20/2015 21:09:42 | 49.87 | 48.37 | 332 | 1.51 | 0.80 | 18.2 |
| 4/20/2015 21:09:47 | 50.20 | 48.70 | 3 | 1.49 | 0.80 | 0.1 |
| 4/20/2015 21:09:48 | 50.53 | 49.03 | 68 | 1.51 | 0.80 | 3.7 |
| 4/20/2015 21:09:49 | 50.85 | 49.35 | 140 | 1.55 | 0.93 | 7.6 |
| 4/20/2015 21:10:00 | 51.18 | 49.68 | 18 | 1.60 | 1.06 | 1.0 |
| 4/20/2015 21:10:06 | 51.51 | 50.01 | 0 | 1.54 | 0.93 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 21:10:15 | 51.84 | 50.34 | 66 | 1.60 | 1.11 | 3.6 |
| 4/20/2015 | 21:10:17 | 52.17 | 50.67 | 134 | 1.55 | 0.94 | 7.3 |
| 4/20/2015 | 21:10:19 | 52.49 | 50.99 | 202 | 1.57 | 1.04 | 11.0 |
| 4/20/2015 | 21:10:25 | 52.82 | 51.32 | 62 | 1.57 | 1.10 | 3.4 |
| 4/20/2015 | 21:10:26 | 53.15 | 51.65 | 141 | 1.57 | 0.97 | 7.7 |
| 4/20/2015 | 21:10:28 | 53.48 | 51.98 | 217 | 1.56 | 0.99 | 11.9 |
| 4/20/2015 | 21:10:30 | 53.81 | 52.31 | 234 | 1.60 | 1.07 | 12.8 |
| 4/20/2015 | 21:10:33 | 54.13 | 52.63 | 115 | 1.62 | 1.03 | 6.3 |
| 4/20/2015 | 21:10:40 | 54.46 | 52.96 | 34 | 1.68 | 1.11 | 1.9 |
| 4/20/2015 | 21:10:50 | 54.79 | 53.29 | 37 | 1.70 | 1.05 | 2.0 |
| 4/20/2015 | 21:11:02 | 55.12 | 53.62 | 32 | 1.70 | 1.10 | 1.8 |
| 4/20/2015 | 21:11:12 | 55.45 | 53.95 | 36 | 1.69 | 1.02 | 2.0 |

## E203 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 21:04:01

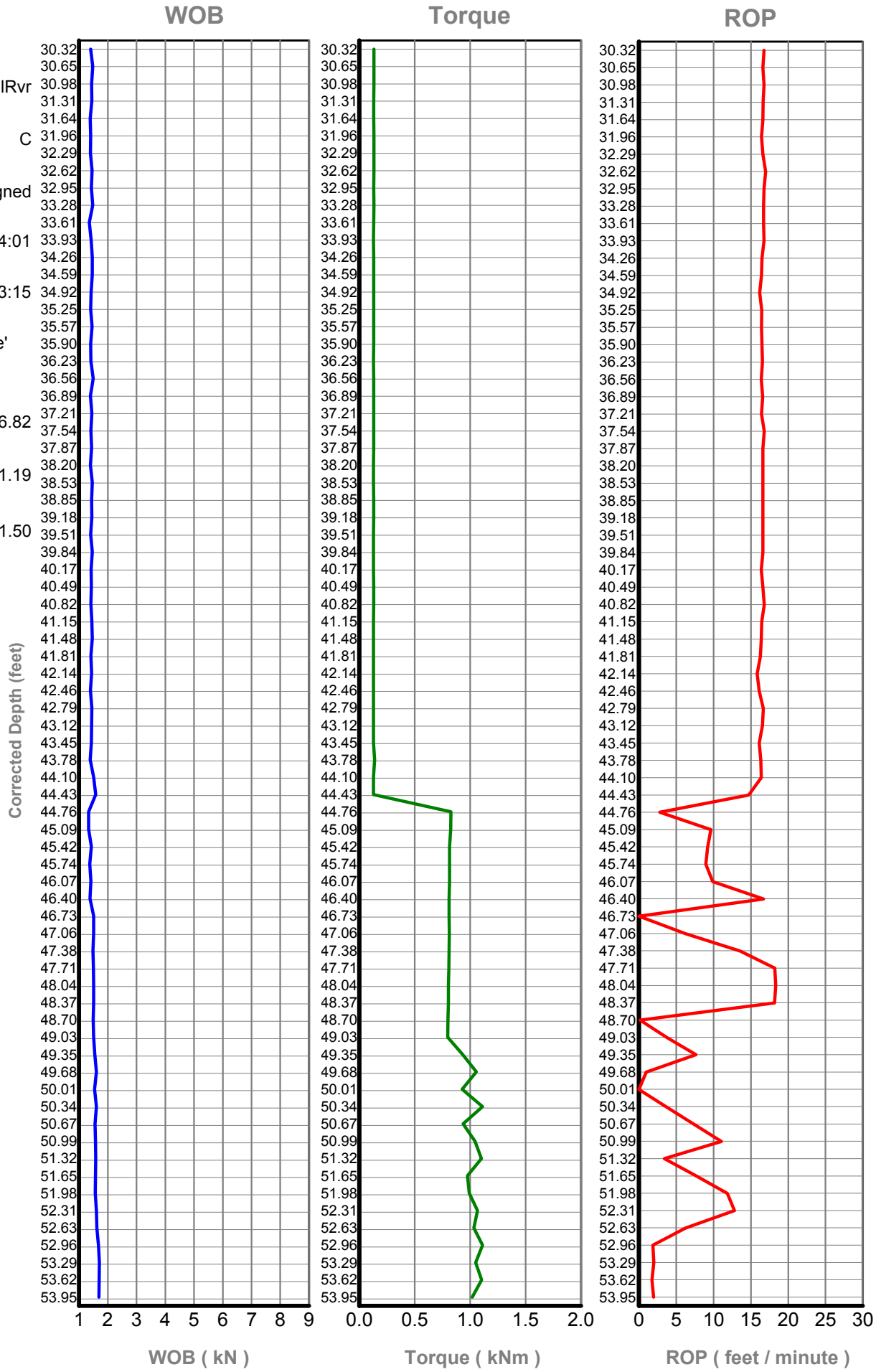
**End Date:**
4/20/2015 21:13:15

**Operator Note:**
'1.5 1.7 c Auto Complete'

**Northing:**
368,296.82

**Easting:**
253,521.19

**Tide (feet):**
1.50



## Hole: E204 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 19:57:38 | 32.48 | 30.08 | 986 | 1.73 | 0.21 | 53.9 |
| 4/20/2015 19:57:38 | 32.81 | 30.41 | 986 | 1.73 | 0.21 | 53.9 |
| 4/20/2015 19:57:39 | 33.14 | 30.74 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:39 | 33.46 | 31.06 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:39 | 33.79 | 31.39 | 992 | 1.73 | 0.21 | 54.2 |
| 4/20/2015 19:57:40 | 34.12 | 31.72 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:40 | 34.45 | 32.05 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:41 | 34.78 | 32.38 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:41 | 35.11 | 32.71 | 999 | 1.73 | 0.21 | 54.6 |
| 4/20/2015 19:57:41 | 35.43 | 33.03 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 19:57:42 | 35.76 | 33.36 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 19:57:42 | 36.09 | 33.69 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/20/2015 19:57:42 | 36.42 | 34.02 | 1,005 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 19:57:43 | 36.75 | 34.35 | 1,005 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 19:57:43 | 37.07 | 34.67 | 991 | 1.73 | 0.21 | 54.2 |
| 4/20/2015 19:57:43 | 37.40 | 35.00 | 984 | 1.73 | 0.21 | 53.8 |
| 4/20/2015 19:57:44 | 37.73 | 35.33 | 984 | 1.73 | 0.21 | 53.8 |
| 4/20/2015 19:57:44 | 38.06 | 35.66 | 984 | 1.73 | 0.21 | 53.8 |
| 4/20/2015 19:57:45 | 38.39 | 35.99 | 987 | 1.73 | 0.21 | 54.0 |
| 4/20/2015 19:57:45 | 38.71 | 36.31 | 978 | 1.73 | 0.21 | 53.5 |
| 4/20/2015 19:57:46 | 39.04 | 36.64 | 978 | 1.73 | 0.21 | 53.5 |
| 4/20/2015 19:57:46 | 39.37 | 36.97 | 984 | 1.73 | 0.21 | 53.8 |
| 4/20/2015 19:57:46 | 39.70 | 37.30 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:47 | 40.03 | 37.63 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:47 | 40.35 | 37.95 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 19:57:47 | 40.68 | 38.28 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 19:57:48 | 41.01 | 38.61 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 19:57:48 | 41.34 | 38.94 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 19:57:48 | 41.67 | 39.27 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 19:57:49 | 41.99 | 39.59 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 19:57:49 | 42.32 | 39.92 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 19:57:49 | 42.65 | 40.25 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 19:57:50 | 42.98 | 40.58 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 19:57:50 | 43.31 | 40.91 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:50 | 43.64 | 41.24 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:51 | 43.96 | 41.56 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:51 | 44.29 | 41.89 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 19:57:51 | 44.62 | 42.22 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 19:57:52 | 44.95 | 42.55 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:52 | 45.28 | 42.88 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:52 | 45.60 | 43.20 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:53 | 45.93 | 43.53 | 969 | 1.73 | 0.21 | 53.0 |
| 4/20/2015 19:57:53 | 46.26 | 43.86 | 969 | 1.73 | 0.21 | 53.0 |
| 4/20/2015 19:57:53 | 46.59 | 44.19 | 969 | 1.73 | 0.21 | 53.0 |
| 4/20/2015 19:57:54 | 46.92 | 44.52 | 977 | 1.73 | 0.21 | 53.4 |
| 4/20/2015 19:57:54 | 47.24 | 44.84 | 977 | 1.73 | 0.21 | 53.4 |
| 4/20/2015 19:57:54 | 47.57 | 45.17 | 976 | 1.73 | 0.21 | 53.4 |
| 4/20/2015 19:57:55 | 47.90 | 45.50 | 985 | 1.73 | 0.21 | 53.9 |
| 4/20/2015 19:57:55 | 48.23 | 45.83 | 982 | 1.73 | 0.21 | 53.7 |
| 4/20/2015 19:57:56 | 48.56 | 46.16 | 982 | 1.73 | 0.21 | 53.7 |
| 4/20/2015 19:57:56 | 48.88 | 46.48 | 999 | 1.73 | 0.21 | 54.6 |
| 4/20/2015 19:57:57 | 49.21 | 46.81 | 986 | 1.73 | 0.21 | 53.9 |
| 4/20/2015 19:57:57 | 49.54 | 47.14 | 986 | 1.73 | 0.21 | 53.9 |
| 4/20/2015 19:57:57 | 49.87 | 47.47 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:58 | 50.20 | 47.80 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:58 | 50.53 | 48.13 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:58 | 50.85 | 48.45 | 989 | 1.73 | 0.21 | 54.1 |
| 4/20/2015 19:57:59 | 51.18 | 48.78 | 977 | 1.73 | 0.21 | 53.4 |
| 4/20/2015 19:57:59 | 51.51 | 49.11 | 966 | 1.73 | 0.21 | 52.8 |
| 4/20/2015 19:58:00 | 51.84 | 49.44 | 966 | 1.73 | 0.21 | 52.8 |
| 4/20/2015 19:58:00 | 52.17 | 49.77 | 945 | 1.73 | 0.21 | 51.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 19:58:00 | 52.49 | 50.09 | 919 | 1.73 | 0.21 | 50.3 |
| 4/20/2015 | 19:58:01 | 52.82 | 50.42 | 905 | 1.73 | 0.21 | 49.5 |
| 4/20/2015 | 19:58:01 | 53.15 | 50.75 | 890 | 1.73 | 0.21 | 48.7 |
| 4/20/2015 | 19:58:02 | 53.48 | 51.08 | 890 | 1.73 | 0.21 | 48.7 |
| 4/20/2015 | 19:58:02 | 53.81 | 51.41 | 884 | 1.73 | 0.21 | 48.3 |
| 4/20/2015 | 19:58:02 | 54.13 | 51.73 | 873 | 1.73 | 0.21 | 47.7 |
| 4/20/2015 | 19:58:03 | 54.46 | 52.06 | 878 | 1.73 | 0.21 | 48.0 |
| 4/20/2015 | 19:58:03 | 54.79 | 52.39 | 867 | 1.73 | 0.21 | 47.4 |
| 4/20/2015 | 19:58:04 | 55.12 | 52.72 | 867 | 1.73 | 0.21 | 47.4 |
| 4/20/2015 | 19:58:04 | 55.45 | 53.05 | 867 | 1.73 | 0.21 | 47.4 |
| 4/20/2015 | 19:58:04 | 55.77 | 53.37 | 866 | 1.73 | 0.21 | 47.4 |
| 4/20/2015 | 19:58:05 | 56.10 | 53.70 | 856 | 1.73 | 0.21 | 46.8 |
| 4/20/2015 | 19:58:05 | 56.43 | 54.03 | 849 | 1.73 | 0.21 | 46.4 |
| 4/20/2015 | 19:58:14 | 56.76 | 54.36 | 14 | 1.73 | 0.21 | 0.8 |
| 4/20/2015 | 19:58:14 | 57.09 | 54.69 | 147 | 1.73 | 0.21 | 8.1 |
| 4/20/2015 | 19:58:15 | 57.41 | 55.01 | 308 | 1.73 | 0.21 | 16.9 |
| 4/20/2015 | 19:58:15 | 57.74 | 55.34 | 459 | 1.73 | 0.21 | 25.1 |
| 4/20/2015 | 19:58:16 | 58.07 | 55.67 | 459 | 1.73 | 0.21 | 25.1 |
| 4/20/2015 | 19:58:16 | 58.40 | 56.00 | 606 | 1.73 | 0.21 | 33.1 |
| 4/20/2015 | 19:58:16 | 58.73 | 56.33 | 728 | 1.73 | 0.21 | 39.8 |
| 4/20/2015 | 19:58:17 | 59.06 | 56.66 | 733 | 1.73 | 0.21 | 40.1 |
| 4/20/2015 | 19:58:26 | 59.38 | 56.98 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 | 19:58:27 | 59.71 | 57.31 | 59 | 1.73 | 0.21 | 3.2 |
| 4/20/2015 | 19:58:28 | 60.04 | 57.64 | 314 | 1.73 | 0.21 | 17.2 |
| 4/20/2015 | 19:59:23 | 60.26 | 57.86 | 0 | 1.73 | 0.21 | 0.0 |

## E204 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 19:52:20

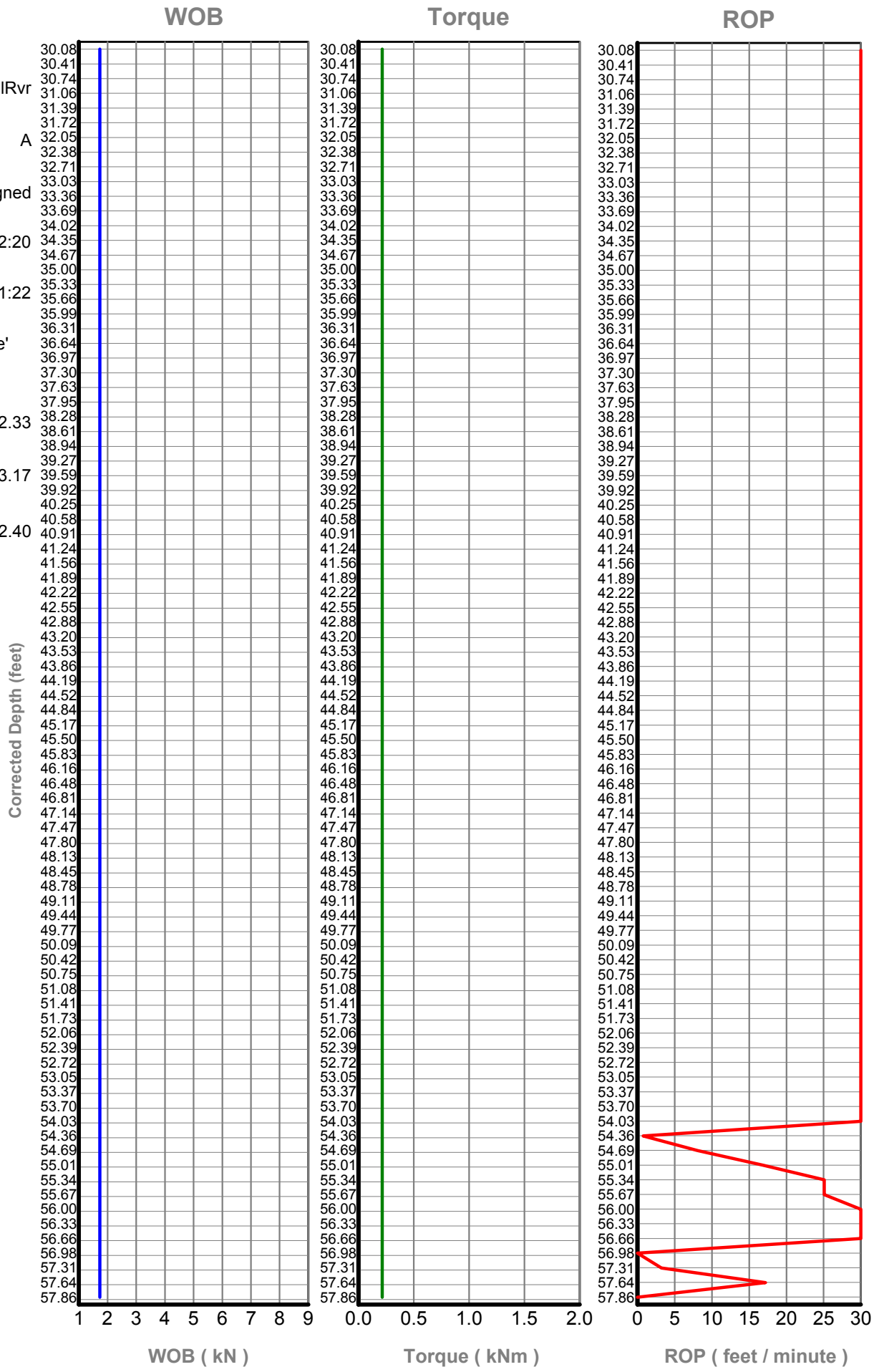
**End Date:**
4/20/2015 20:01:22

**Operator Note:**
'2.4 2.5 b Auto Complete'

**Northing:**
368,362.33

**Easting:**
253,593.17

**Tide (feet):**
2.40



## Hole: E205 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 20:13:10 | 32.48 | 30.18 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:10 | 32.81 | 30.51 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:10 | 33.14 | 30.84 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:11 | 33.46 | 31.16 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:11 | 33.79 | 31.49 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 20:13:11 | 34.12 | 31.82 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 20:13:12 | 34.45 | 32.15 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 20:13:12 | 34.78 | 32.48 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 20:13:12 | 35.11 | 32.81 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/20/2015 20:13:13 | 35.43 | 33.13 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 20:13:13 | 35.76 | 33.46 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/20/2015 20:13:13 | 36.09 | 33.79 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:14 | 36.42 | 34.12 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:14 | 36.75 | 34.45 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:14 | 37.07 | 34.77 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 20:13:15 | 37.40 | 35.10 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 20:13:15 | 37.73 | 35.43 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 20:13:15 | 38.06 | 35.76 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 20:13:16 | 38.39 | 36.09 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:16 | 38.71 | 36.41 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:16 | 39.04 | 36.74 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 20:13:17 | 39.37 | 37.07 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:17 | 39.70 | 37.40 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:18 | 40.03 | 37.73 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 20:13:18 | 40.35 | 38.05 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:19 | 40.68 | 38.38 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:19 | 41.01 | 38.71 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:19 | 41.34 | 39.04 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:20 | 41.67 | 39.37 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:20 | 41.99 | 39.69 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 20:13:20 | 42.32 | 40.02 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:21 | 42.65 | 40.35 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/20/2015 20:13:21 | 42.98 | 40.68 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/20/2015 20:13:21 | 43.31 | 41.01 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:22 | 43.64 | 41.34 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:22 | 43.96 | 41.66 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:22 | 44.29 | 41.99 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 20:13:23 | 44.62 | 42.32 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 20:13:23 | 44.95 | 42.65 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/20/2015 20:13:23 | 45.28 | 42.98 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/20/2015 20:13:24 | 45.60 | 43.30 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 20:13:24 | 45.93 | 43.63 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/20/2015 20:13:24 | 46.26 | 43.96 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:25 | 46.59 | 44.29 | 1,016 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:25 | 46.92 | 44.62 | 1,016 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:25 | 47.24 | 44.94 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 20:13:26 | 47.57 | 45.27 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 20:13:26 | 47.90 | 45.60 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/20/2015 20:13:26 | 48.23 | 45.93 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/20/2015 20:13:27 | 48.56 | 46.26 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:27 | 48.88 | 46.58 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/20/2015 20:13:27 | 49.21 | 46.91 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/20/2015 20:13:28 | 49.54 | 47.24 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/20/2015 20:14:01 | 49.87 | 47.57 | 23 | 1.73 | 0.21 | 1.2 |
| 4/20/2015 20:14:01 | 50.20 | 47.90 | 164 | 1.73 | 0.21 | 9.0 |
| 4/20/2015 20:14:02 | 50.53 | 48.23 | 305 | 1.73 | 0.21 | 16.7 |
| 4/20/2015 20:14:02 | 50.85 | 48.55 | 468 | 1.73 | 0.21 | 25.6 |
| 4/20/2015 20:14:03 | 51.18 | 48.88 | 642 | 1.73 | 0.21 | 35.1 |
| 4/20/2015 20:14:03 | 51.51 | 49.21 | 642 | 1.73 | 0.21 | 35.1 |
| 4/20/2015 20:14:03 | 51.84 | 49.54 | 790 | 1.73 | 0.21 | 43.2 |
| 4/20/2015 20:14:04 | 52.17 | 49.87 | 822 | 1.73 | 0.21 | 45.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 20:14:05 | 52.49 | 50.19 | 850 | 1.73 | 0.21 | 46.5 |
| 4/20/2015 | 20:14:05 | 52.82 | 50.52 | 841 | 1.73 | 0.21 | 46.0 |
| 4/20/2015 | 20:14:06 | 53.15 | 50.85 | 841 | 1.73 | 0.21 | 46.0 |
| 4/20/2015 | 20:14:06 | 53.48 | 51.18 | 841 | 1.73 | 0.21 | 46.0 |
| 4/20/2015 | 20:14:06 | 53.81 | 51.51 | 842 | 1.73 | 0.21 | 46.0 |
| 4/20/2015 | 20:14:07 | 54.13 | 51.83 | 838 | 1.73 | 0.21 | 45.8 |
| 4/20/2015 | 20:14:07 | 54.46 | 52.16 | 839 | 1.73 | 0.21 | 45.9 |
| 4/20/2015 | 20:14:08 | 54.79 | 52.49 | 832 | 1.73 | 0.21 | 45.5 |
| 4/20/2015 | 20:14:08 | 55.12 | 52.82 | 832 | 1.73 | 0.21 | 45.5 |
| 4/20/2015 | 20:14:08 | 55.45 | 53.15 | 837 | 1.73 | 0.21 | 45.8 |
| 4/20/2015 | 20:14:09 | 55.77 | 53.47 | 825 | 1.73 | 0.21 | 45.1 |
| 4/20/2015 | 20:14:09 | 56.10 | 53.80 | 834 | 1.73 | 0.21 | 45.6 |
| 4/20/2015 | 20:14:10 | 56.43 | 54.13 | 826 | 1.73 | 0.21 | 45.1 |
| 4/20/2015 | 20:14:10 | 56.76 | 54.46 | 835 | 1.73 | 0.21 | 45.6 |
| 4/20/2015 | 20:14:11 | 57.09 | 54.79 | 835 | 1.73 | 0.21 | 45.6 |
| 4/20/2015 | 20:14:11 | 57.41 | 55.11 | 841 | 1.73 | 0.21 | 46.0 |
| 4/20/2015 | 20:14:11 | 57.74 | 55.44 | 832 | 1.73 | 0.21 | 45.5 |
| 4/20/2015 | 20:14:12 | 57.96 | 55.66 | 805 | 1.73 | 0.21 | 44.0 |

## E205 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/20/2015 20:08:47

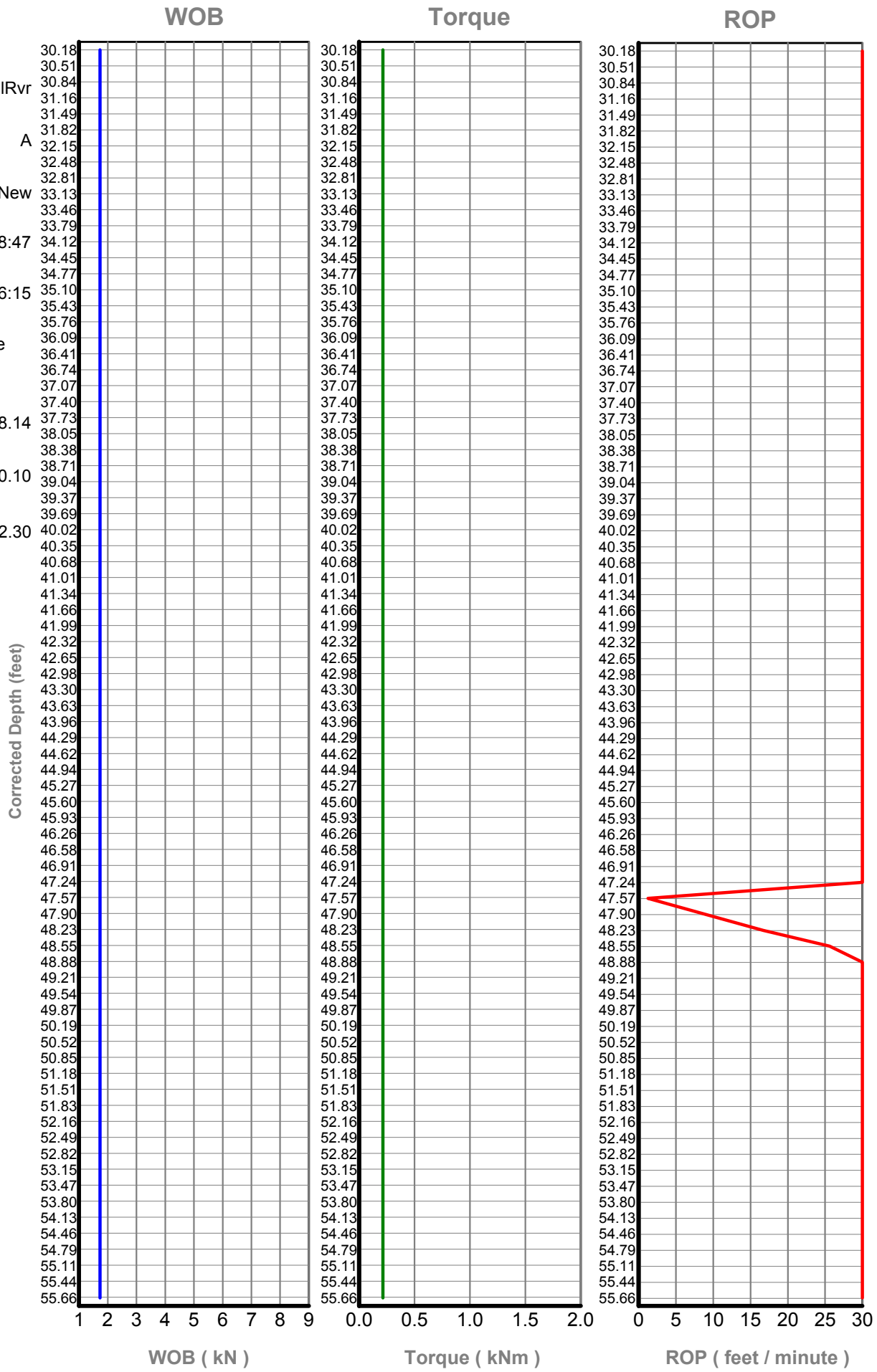
**End Date:**
4/20/2015 20:16:15

**Operator Note:**
'2.3 2.4 b Auto Complete

**Northing:**
368,398.14

**Easting:**
253,640.10

**Tide (feet):**
2.30



## Hole: E206 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:11:32 | 37.40 | 30.30 | 944 | 0.33 | 0.33 | 51.6 |
| 4/22/2015 4:11:32 | 37.73 | 30.63 | 944 | 0.33 | 0.33 | 51.6 |
| 4/22/2015 4:11:32 | 38.06 | 30.96 | 953 | 0.34 | 0.33 | 52.1 |
| 4/22/2015 4:11:33 | 38.39 | 31.29 | 984 | 0.33 | 0.33 | 53.8 |
| 4/22/2015 4:11:33 | 38.71 | 31.61 | 984 | 0.33 | 0.33 | 53.8 |
| 4/22/2015 4:11:33 | 39.04 | 31.94 | 963 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:11:34 | 39.37 | 32.27 | 966 | 0.40 | 0.33 | 52.8 |
| 4/22/2015 4:11:34 | 39.70 | 32.60 | 966 | 0.40 | 0.33 | 52.8 |
| 4/22/2015 4:11:34 | 40.03 | 32.93 | 968 | 0.33 | 0.33 | 53.0 |
| 4/22/2015 4:11:35 | 40.35 | 33.25 | 965 | 0.33 | 0.29 | 52.8 |
| 4/22/2015 4:11:35 | 40.68 | 33.58 | 965 | 0.33 | 0.33 | 52.8 |
| 4/22/2015 4:11:36 | 41.01 | 33.91 | 965 | 0.33 | 0.33 | 52.8 |
| 4/22/2015 4:11:36 | 41.34 | 34.24 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 4:11:36 | 41.67 | 34.57 | 927 | 0.33 | 0.33 | 50.7 |
| 4/22/2015 4:11:37 | 41.99 | 34.89 | 927 | 0.33 | 0.33 | 50.7 |
| 4/22/2015 4:11:37 | 42.32 | 35.22 | 927 | 0.33 | 0.33 | 50.7 |
| 4/22/2015 4:11:37 | 42.65 | 35.55 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 4:11:38 | 42.98 | 35.88 | 948 | 0.33 | 0.34 | 51.9 |
| 4/22/2015 4:11:39 | 43.31 | 36.21 | 948 | 0.33 | 0.34 | 51.9 |
| 4/22/2015 4:11:38 | 43.64 | 36.54 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:11:39 | 43.96 | 36.86 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:40 | 44.29 | 37.19 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:40 | 44.62 | 37.52 | 990 | 0.33 | 0.33 | 54.1 |
| 4/22/2015 4:11:40 | 44.95 | 37.85 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:41 | 45.28 | 38.18 | 968 | 0.33 | 0.31 | 53.0 |
| 4/22/2015 4:11:41 | 45.60 | 38.50 | 968 | 0.33 | 0.31 | 53.0 |
| 4/22/2015 4:11:41 | 45.93 | 38.83 | 963 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:11:42 | 46.26 | 39.16 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:42 | 46.59 | 39.49 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:42 | 46.92 | 39.82 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 4:11:43 | 47.24 | 40.14 | 960 | 0.33 | 0.31 | 52.5 |
| 4/22/2015 4:11:43 | 47.57 | 40.47 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 4:11:44 | 47.90 | 40.80 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 4:11:44 | 48.23 | 41.13 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 4:11:44 | 48.56 | 41.46 | 943 | 0.33 | 0.33 | 51.6 |
| 4/22/2015 4:11:45 | 48.88 | 41.78 | 943 | 0.33 | 0.33 | 51.6 |
| 4/22/2015 4:11:45 | 49.21 | 42.11 | 943 | 0.33 | 0.33 | 51.6 |
| 4/22/2015 4:11:45 | 49.54 | 42.44 | 955 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 4:11:46 | 49.87 | 42.77 | 964 | 0.33 | 0.33 | 52.7 |
| 4/22/2015 4:11:46 | 50.20 | 43.10 | 964 | 0.33 | 0.33 | 52.7 |
| 4/22/2015 4:11:46 | 50.53 | 43.43 | 961 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:11:47 | 50.85 | 43.75 | 961 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:47 | 51.18 | 44.08 | 961 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:11:47 | 51.51 | 44.41 | 980 | 0.33 | 0.33 | 53.6 |
| 4/22/2015 4:11:48 | 51.84 | 44.74 | 968 | 0.33 | 0.33 | 53.0 |
| 4/22/2015 4:11:48 | 52.17 | 45.07 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 4:11:49 | 52.49 | 45.39 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 4:11:49 | 52.82 | 45.72 | 963 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:11:50 | 53.15 | 46.05 | 954 | 0.31 | 0.32 | 52.2 |
| 4/22/2015 4:11:50 | 53.48 | 46.38 | 954 | 0.31 | 0.32 | 52.2 |
| 4/22/2015 4:11:50 | 53.81 | 46.71 | 948 | 0.33 | 0.33 | 51.9 |
| 4/22/2015 4:11:51 | 54.13 | 47.03 | 935 | 0.32 | 0.34 | 51.1 |
| 4/22/2015 4:11:51 | 54.46 | 47.36 | 921 | 0.31 | 0.38 | 50.4 |
| 4/22/2015 4:12:56 | 54.79 | 47.69 | 38 | 2.98 | 0.38 | 2.1 |
| 4/22/2015 4:13:05 | 55.12 | 48.02 | 29 | 4.58 | 0.42 | 1.6 |
| 4/22/2015 4:13:14 | 55.45 | 48.35 | 104 | 3.64 | 0.38 | 5.7 |
| 4/22/2015 4:13:14 | 55.77 | 48.67 | 189 | 3.71 | 0.38 | 10.4 |
| 4/22/2015 4:13:15 | 56.10 | 49.00 | 338 | 4.40 | 0.37 | 18.5 |
| 4/22/2015 4:13:18 | 56.43 | 49.33 | 180 | 4.48 | 0.39 | 9.8 |
| 4/22/2015 4:13:19 | 56.76 | 49.66 | 170 | 4.33 | 0.38 | 9.3 |
| 4/22/2015 4:13:20 | 57.09 | 49.99 | 257 | 3.56 | 0.38 | 14.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:13:21 | 57.41 | 50.31 | 297 | 3.35 | 0.37 | 16.2 |
| 4/22/2015 | 4:13:30 | 57.74 | 50.64 | 0 | 3.86 | 0.37 | 0.0 |
| 4/22/2015 | 4:13:31 | 58.07 | 50.97 | 156 | 3.51 | 0.37 | 8.5 |
| 4/22/2015 | 4:13:32 | 58.40 | 51.30 | 156 | 2.90 | 0.37 | 8.5 |
| 4/22/2015 | 4:13:33 | 58.73 | 51.63 | 343 | 3.38 | 0.37 | 18.8 |
| 4/22/2015 | 4:13:34 | 59.06 | 51.96 | 435 | 3.05 | 0.37 | 23.8 |
| 4/22/2015 | 4:13:35 | 59.38 | 52.28 | 456 | 3.03 | 0.37 | 25.0 |
| 4/22/2015 | 4:13:35 | 59.71 | 52.61 | 461 | 3.13 | 0.37 | 25.2 |
| 4/22/2015 | 4:13:51 | 60.04 | 52.94 | 0 | 3.50 | 0.39 | 0.0 |
| 4/22/2015 | 4:13:52 | 60.37 | 53.27 | 65 | 4.06 | 0.39 | 3.5 |
| 4/22/2015 | 4:13:54 | 60.70 | 53.60 | 123 | 3.99 | 0.38 | 6.7 |
| 4/22/2015 | 4:13:55 | 61.02 | 53.92 | 267 | 4.49 | 0.38 | 14.6 |
| 4/22/2015 | 4:13:56 | 61.35 | 54.25 | 328 | 4.45 | 0.38 | 17.9 |
| 4/22/2015 | 4:13:57 | 61.68 | 54.58 | 336 | 3.64 | 0.38 | 18.4 |
| 4/22/2015 | 4:13:58 | 62.01 | 54.91 | 325 | 3.64 | 0.38 | 17.8 |
| 4/22/2015 | 4:13:59 | 62.34 | 55.24 | 310 | 3.81 | 0.38 | 17.0 |
| 4/22/2015 | 4:13:59 | 62.39 | 55.29 | 310 | 3.81 | 0.38 | 17.0 |

## E206 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 3:51:49

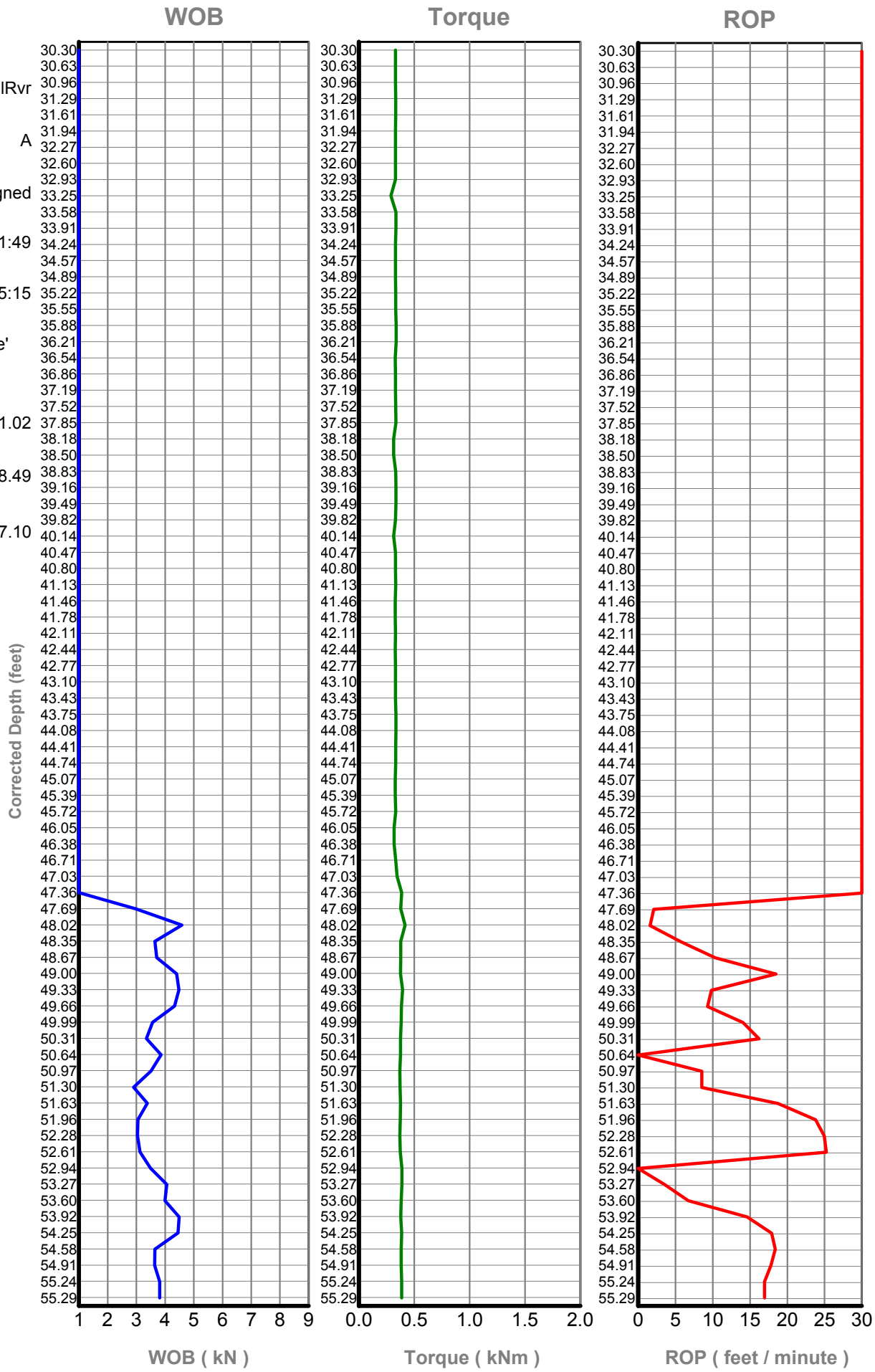
**End Date:**
4/22/2015 4:15:15

**Operator Note:**
'7.1 7.1 b Auto Complete'

**Northing:**
367,731.02

**Easting:**
252,928.49

**Tide (feet):**
7.10



## Hole: E207 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:09:41 | 37.07 | 30.07 | 3 | 3.20 | 0.14 | 0.2 |
| 4/22/2015 4:09:41 | 37.40 | 30.40 | 213 | 3.22 | 0.14 | 11.6 |
| 4/22/2015 4:09:42 | 37.73 | 30.73 | 213 | 3.22 | 0.14 | 11.6 |
| 4/22/2015 4:09:42 | 38.06 | 31.06 | 493 | 3.20 | 0.15 | 27.0 |
| 4/22/2015 4:09:42 | 38.39 | 31.39 | 493 | 3.20 | 0.15 | 27.0 |
| 4/22/2015 4:09:42 | 38.71 | 31.71 | 794 | 3.18 | 0.15 | 43.4 |
| 4/22/2015 4:09:43 | 39.04 | 32.04 | 794 | 3.18 | 0.15 | 43.4 |
| 4/22/2015 4:09:43 | 39.37 | 32.37 | 1,053 | 3.20 | 0.14 | 57.6 |
| 4/22/2015 4:09:43 | 39.70 | 32.70 | 1,053 | 3.20 | 0.14 | 57.6 |
| 4/22/2015 4:09:43 | 40.03 | 33.03 | 1,339 | 3.20 | 0.14 | 73.2 |
| 4/22/2015 4:09:44 | 40.35 | 33.35 | 1,339 | 3.20 | 0.14 | 73.2 |
| 4/22/2015 4:09:44 | 40.68 | 33.68 | 1,339 | 3.21 | 0.14 | 73.2 |
| 4/22/2015 4:09:44 | 41.01 | 34.01 | 1,339 | 3.21 | 0.14 | 73.2 |
| 4/22/2015 4:09:44 | 41.34 | 34.34 | 1,430 | 3.21 | 0.14 | 78.2 |
| 4/22/2015 4:09:45 | 41.67 | 34.67 | 1,430 | 3.21 | 0.14 | 78.2 |
| 4/22/2015 4:09:45 | 41.99 | 34.99 | 1,435 | 3.22 | 0.15 | 78.5 |
| 4/22/2015 4:09:45 | 42.32 | 35.32 | 1,435 | 3.22 | 0.15 | 78.5 |
| 4/22/2015 4:09:46 | 42.65 | 35.65 | 1,426 | 3.22 | 0.15 | 78.0 |
| 4/22/2015 4:09:46 | 42.98 | 35.98 | 1,426 | 3.22 | 0.15 | 78.0 |
| 4/22/2015 4:09:46 | 43.31 | 36.31 | 1,426 | 3.22 | 0.15 | 78.0 |
| 4/22/2015 4:09:46 | 43.64 | 36.64 | 1,455 | 3.22 | 0.15 | 79.5 |
| 4/22/2015 4:09:46 | 43.96 | 36.96 | 1,455 | 3.22 | 0.15 | 79.5 |
| 4/22/2015 4:09:47 | 44.29 | 37.29 | 1,460 | 3.20 | 0.15 | 79.8 |
| 4/22/2015 4:09:47 | 44.62 | 37.62 | 1,460 | 3.20 | 0.15 | 79.8 |
| 4/22/2015 4:09:47 | 44.95 | 37.95 | 1,412 | 3.21 | 0.15 | 77.2 |
| 4/22/2015 4:09:47 | 45.28 | 38.28 | 1,412 | 3.21 | 0.15 | 77.2 |
| 4/22/2015 4:09:48 | 45.60 | 38.60 | 1,415 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 4:09:48 | 45.93 | 38.93 | 1,415 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 4:09:48 | 46.26 | 39.26 | 1,415 | 3.19 | 0.15 | 77.4 |
| 4/22/2015 4:09:48 | 46.59 | 39.59 | 1,415 | 3.19 | 0.15 | 77.4 |
| 4/22/2015 4:09:49 | 46.92 | 39.92 | 1,429 | 3.18 | 0.13 | 78.1 |
| 4/22/2015 4:09:49 | 47.24 | 40.24 | 1,429 | 3.18 | 0.13 | 78.1 |
| 4/22/2015 4:09:49 | 47.57 | 40.57 | 1,396 | 3.20 | 0.15 | 76.3 |
| 4/22/2015 4:09:50 | 47.90 | 40.90 | 1,396 | 3.20 | 0.15 | 76.3 |
| 4/22/2015 4:09:50 | 48.23 | 41.23 | 1,396 | 3.21 | 0.14 | 76.3 |
| 4/22/2015 4:09:50 | 48.56 | 41.56 | 1,396 | 3.21 | 0.14 | 76.3 |
| 4/22/2015 4:09:50 | 48.88 | 41.88 | 1,413 | 3.18 | 0.14 | 77.3 |
| 4/22/2015 4:09:51 | 49.21 | 42.21 | 1,413 | 3.18 | 0.14 | 77.3 |
| 4/22/2015 4:09:51 | 49.54 | 42.54 | 1,413 | 3.22 | 0.14 | 77.3 |
| 4/22/2015 4:09:51 | 49.87 | 42.87 | 1,413 | 3.22 | 0.14 | 77.3 |
| 4/22/2015 4:09:51 | 50.20 | 43.20 | 1,413 | 3.22 | 0.14 | 77.3 |
| 4/22/2015 4:09:51 | 50.53 | 43.53 | 1,421 | 3.18 | 0.14 | 77.7 |
| 4/22/2015 4:09:52 | 50.85 | 43.85 | 1,421 | 3.18 | 0.14 | 77.7 |
| 4/22/2015 4:09:52 | 51.18 | 44.18 | 1,421 | 3.20 | 0.14 | 77.7 |
| 4/22/2015 4:09:52 | 51.51 | 44.51 | 1,421 | 3.20 | 0.14 | 77.7 |
| 4/22/2015 4:09:52 | 51.84 | 44.84 | 1,425 | 3.20 | 0.14 | 77.9 |
| 4/22/2015 4:09:53 | 52.17 | 45.17 | 1,425 | 3.20 | 0.14 | 77.9 |
| 4/22/2015 4:09:53 | 52.49 | 45.49 | 1,452 | 3.27 | 0.15 | 79.4 |
| 4/22/2015 4:10:16 | 52.82 | 45.82 | 14 | 1.83 | 1.01 | 0.8 |
| 4/22/2015 4:10:25 | 53.15 | 46.15 | 29 | 1.76 | 1.11 | 1.6 |
| 4/22/2015 4:10:33 | 53.48 | 46.48 | 48 | 1.95 | 1.14 | 2.6 |
| 4/22/2015 4:10:40 | 53.81 | 46.81 | 41 | 1.74 | 1.14 | 2.2 |
| 4/22/2015 4:10:42 | 54.13 | 47.13 | 162 | 1.74 | 1.39 | 8.8 |
| 4/22/2015 4:10:53 | 54.46 | 47.46 | 106 | 1.64 | 1.01 | 5.8 |
| 4/22/2015 4:10:59 | 54.79 | 47.79 | 0 | 1.95 | 1.53 | 0.0 |
| 4/22/2015 4:11:13 | 55.12 | 48.12 | 35 | 1.85 | 1.40 | 1.9 |
| 4/22/2015 4:11:16 | 55.45 | 48.45 | 115 | 1.79 | 1.31 | 6.3 |
| 4/22/2015 4:11:18 | 55.77 | 48.77 | 159 | 1.86 | 1.22 | 8.7 |
| 4/22/2015 4:11:31 | 56.10 | 49.10 | 74 | 1.75 | 1.21 | 4.1 |
| 4/22/2015 4:11:47 | 56.43 | 49.43 | 66 | 1.68 | 1.20 | 3.6 |
| 4/22/2015 4:12:08 | 56.76 | 49.76 | 3 | 1.74 | 1.37 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:12:10 | 57.09 | 50.09 | 118 | 1.79 | 1.08 | 6.4 |
| 4/22/2015 | 4:12:12 | 57.41 | 50.41 | 156 | 1.79 | 1.17 | 8.5 |
| 4/22/2015 | 4:12:29 | 57.74 | 50.74 | 58 | 1.68 | 1.04 | 3.2 |
| 4/22/2015 | 4:12:32 | 58.07 | 51.07 | 78 | 1.79 | 1.34 | 4.3 |
| 4/22/2015 | 4:12:35 | 58.40 | 51.40 | 134 | 1.74 | 1.29 | 7.3 |
| 4/22/2015 | 4:12:37 | 58.73 | 51.73 | 157 | 1.73 | 1.11 | 8.6 |
| 4/22/2015 | 4:12:39 | 59.06 | 52.06 | 174 | 1.67 | 1.08 | 9.5 |
| 4/22/2015 | 4:12:56 | 59.38 | 52.38 | 72 | 1.72 | 1.13 | 4.0 |
| 4/22/2015 | 4:12:59 | 59.71 | 52.71 | 170 | 1.73 | 1.07 | 9.3 |
| 4/22/2015 | 4:13:01 | 60.04 | 53.04 | 171 | 1.72 | 1.08 | 9.4 |
| 4/22/2015 | 4:13:03 | 60.37 | 53.37 | 180 | 1.68 | 1.19 | 9.9 |
| 4/22/2015 | 4:13:31 | 60.70 | 53.70 | 11 | 1.70 | 1.07 | 0.6 |
| 4/22/2015 | 4:13:33 | 61.02 | 54.02 | 126 | 1.62 | 1.03 | 6.9 |
| 4/22/2015 | 4:13:34 | 61.35 | 54.35 | 229 | 1.50 | 0.89 | 12.5 |
| 4/22/2015 | 4:13:35 | 61.68 | 54.68 | 293 | 1.56 | 0.95 | 16.0 |
| 4/22/2015 | 4:13:37 | 62.01 | 55.01 | 282 | 1.79 | 1.28 | 15.4 |
| 4/22/2015 | 4:13:37 | 62.16 | 55.16 | 249 | 1.67 | 1.14 | 13.6 |

## E207 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:08:37

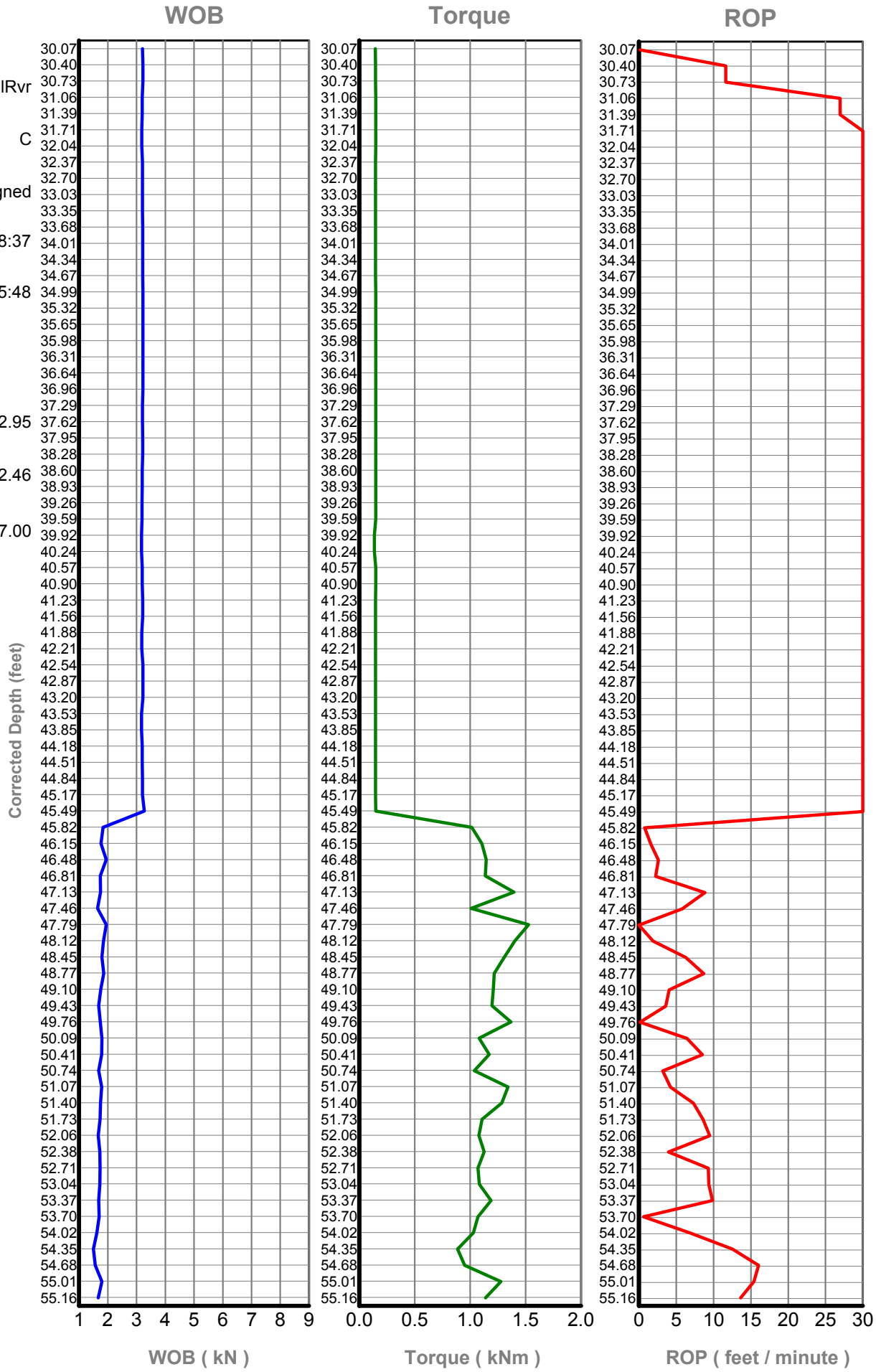
**End Date:**
4/22/2015 4:15:48

**Operator Note:**
'7 7.1 c Auto Complete'

**Northing:**
367,772.95

**Easting:**
252,982.46

**Tide (feet):**
7.00



## Hole: E208 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:20:06 | 37.07 | 30.07 | 1,454 | 3.17 | 0.14 | 79.5 |
| 4/22/2015 4:20:06 | 37.40 | 30.40 | 1,445 | 3.22 | 0.14 | 79.0 |
| 4/22/2015 4:20:07 | 37.73 | 30.73 | 1,445 | 3.22 | 0.14 | 79.0 |
| 4/22/2015 4:20:07 | 38.06 | 31.06 | 1,454 | 3.20 | 0.14 | 79.5 |
| 4/22/2015 4:20:07 | 38.39 | 31.39 | 1,454 | 3.20 | 0.14 | 79.5 |
| 4/22/2015 4:20:07 | 38.71 | 31.71 | 1,454 | 3.19 | 0.14 | 79.5 |
| 4/22/2015 4:20:08 | 39.04 | 32.04 | 1,454 | 3.19 | 0.14 | 79.5 |
| 4/22/2015 4:20:08 | 39.37 | 32.37 | 1,457 | 3.22 | 0.14 | 79.7 |
| 4/22/2015 4:20:08 | 39.70 | 32.70 | 1,457 | 3.22 | 0.14 | 79.7 |
| 4/22/2015 4:20:08 | 40.03 | 33.03 | 1,457 | 3.19 | 0.15 | 79.7 |
| 4/22/2015 4:20:09 | 40.35 | 33.35 | 1,457 | 3.19 | 0.15 | 79.7 |
| 4/22/2015 4:20:09 | 40.68 | 33.68 | 1,463 | 3.19 | 0.15 | 80.0 |
| 4/22/2015 4:20:09 | 41.01 | 34.01 | 1,463 | 3.19 | 0.15 | 80.0 |
| 4/22/2015 4:20:09 | 41.34 | 34.34 | 1,457 | 3.18 | 0.14 | 79.7 |
| 4/22/2015 4:20:10 | 41.67 | 34.67 | 1,457 | 3.18 | 0.14 | 79.7 |
| 4/22/2015 4:20:10 | 41.99 | 34.99 | 1,457 | 3.18 | 0.14 | 79.7 |
| 4/22/2015 4:20:10 | 42.32 | 35.32 | 1,457 | 3.23 | 0.14 | 79.7 |
| 4/22/2015 4:20:10 | 42.65 | 35.65 | 1,457 | 3.23 | 0.14 | 79.7 |
| 4/22/2015 4:20:11 | 42.98 | 35.98 | 1,454 | 3.18 | 0.14 | 79.5 |
| 4/22/2015 4:20:11 | 43.31 | 36.31 | 1,454 | 3.18 | 0.14 | 79.5 |
| 4/22/2015 4:20:11 | 43.64 | 36.64 | 1,451 | 3.21 | 0.14 | 79.3 |
| 4/22/2015 4:20:11 | 43.96 | 36.96 | 1,451 | 3.21 | 0.14 | 79.3 |
| 4/22/2015 4:20:12 | 44.29 | 37.29 | 1,390 | 3.20 | 0.14 | 76.0 |
| 4/22/2015 4:20:12 | 44.62 | 37.62 | 1,390 | 3.20 | 0.14 | 76.0 |
| 4/22/2015 4:20:12 | 44.95 | 37.95 | 1,390 | 3.18 | 0.15 | 76.0 |
| 4/22/2015 4:20:12 | 45.28 | 38.28 | 1,390 | 3.18 | 0.15 | 76.0 |
| 4/22/2015 4:20:13 | 45.60 | 38.60 | 1,422 | 3.19 | 0.14 | 77.8 |
| 4/22/2015 4:20:13 | 45.93 | 38.93 | 1,422 | 3.19 | 0.14 | 77.8 |
| 4/22/2015 4:20:13 | 46.26 | 39.26 | 1,411 | 3.19 | 0.14 | 77.1 |
| 4/22/2015 4:20:14 | 46.59 | 39.59 | 1,411 | 3.19 | 0.14 | 77.1 |
| 4/22/2015 4:20:14 | 46.92 | 39.92 | 1,382 | 3.21 | 0.14 | 75.6 |
| 4/22/2015 4:20:14 | 47.24 | 40.24 | 1,382 | 3.21 | 0.14 | 75.6 |
| 4/22/2015 4:20:14 | 47.57 | 40.57 | 1,382 | 3.20 | 0.14 | 75.6 |
| 4/22/2015 4:20:15 | 47.90 | 40.90 | 1,382 | 3.20 | 0.14 | 75.6 |
| 4/22/2015 4:20:15 | 48.23 | 41.23 | 1,382 | 3.20 | 0.14 | 75.6 |
| 4/22/2015 4:20:15 | 48.56 | 41.56 | 1,406 | 3.20 | 0.14 | 76.9 |
| 4/22/2015 4:20:15 | 48.88 | 41.88 | 1,406 | 3.20 | 0.14 | 76.9 |
| 4/22/2015 4:20:15 | 49.21 | 42.21 | 1,458 | 3.21 | 0.14 | 79.7 |
| 4/22/2015 4:20:16 | 49.54 | 42.54 | 1,458 | 3.21 | 0.14 | 79.7 |
| 4/22/2015 4:20:16 | 49.87 | 42.87 | 1,458 | 3.21 | 0.14 | 79.7 |
| 4/22/2015 4:20:16 | 50.20 | 43.20 | 1,458 | 3.21 | 0.14 | 79.7 |
| 4/22/2015 4:20:16 | 50.53 | 43.53 | 1,421 | 3.18 | 0.15 | 77.7 |
| 4/22/2015 4:20:17 | 50.85 | 43.85 | 1,421 | 3.18 | 0.15 | 77.7 |
| 4/22/2015 4:20:17 | 51.18 | 44.18 | 1,413 | 3.19 | 0.15 | 77.3 |
| 4/22/2015 4:20:17 | 51.51 | 44.51 | 1,413 | 3.19 | 0.15 | 77.3 |
| 4/22/2015 4:20:17 | 51.84 | 44.84 | 1,413 | 3.19 | 0.15 | 77.3 |
| 4/22/2015 4:20:18 | 52.17 | 45.17 | 1,413 | 3.19 | 0.15 | 77.3 |
| 4/22/2015 4:20:18 | 52.49 | 45.49 | 1,466 | 3.21 | 0.15 | 80.2 |
| 4/22/2015 4:20:18 | 52.82 | 45.82 | 1,466 | 3.21 | 0.15 | 80.2 |
| 4/22/2015 4:20:18 | 53.15 | 46.15 | 1,454 | 3.20 | 0.14 | 79.5 |
| 4/22/2015 4:20:19 | 53.48 | 46.48 | 1,454 | 3.20 | 0.14 | 79.5 |
| 4/22/2015 4:20:19 | 53.81 | 46.81 | 1,428 | 3.24 | 0.14 | 78.1 |
| 4/22/2015 4:20:20 | 54.13 | 47.13 | 1,428 | 3.24 | 0.14 | 78.1 |
| 4/22/2015 4:20:56 | 54.46 | 47.46 | 34 | 2.12 | 0.95 | 1.9 |
| 4/22/2015 4:21:25 | 54.79 | 47.79 | 0 | 1.59 | 0.90 | 0.0 |
| 4/22/2015 4:21:29 | 55.12 | 48.12 | 111 | 1.68 | 1.38 | 6.1 |
| 4/22/2015 4:21:54 | 55.45 | 48.45 | 87 | 1.64 | 1.11 | 4.8 |
| 4/22/2015 4:21:56 | 55.77 | 48.77 | 144 | 1.85 | 1.25 | 7.9 |
| 4/22/2015 4:22:17 | 56.10 | 49.10 | 53 | 1.67 | 1.26 | 2.9 |
| 4/22/2015 4:22:49 | 56.43 | 49.43 | 11 | 1.88 | 1.53 | 0.6 |
| 4/22/2015 4:22:52 | 56.76 | 49.76 | 134 | 1.74 | 1.09 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:22:55 | 57.09 | 50.09 | 147 | 1.76 | 1.11 | 8.1 |
| 4/22/2015 | 4:22:57 | 57.41 | 50.41 | 154 | 1.73 | 1.15 | 8.4 |
| 4/22/2015 | 4:22:59 | 57.74 | 50.74 | 166 | 1.66 | 1.15 | 9.1 |
| 4/22/2015 | 4:23:16 | 58.07 | 51.07 | 74 | 1.70 | 1.02 | 4.1 |
| 4/22/2015 | 4:23:17 | 58.40 | 51.40 | 180 | 1.54 | 0.84 | 9.8 |
| 4/22/2015 | 4:23:18 | 58.73 | 51.73 | 260 | 1.53 | 0.84 | 14.2 |
| 4/22/2015 | 4:23:19 | 59.06 | 52.06 | 304 | 1.60 | 0.91 | 16.6 |
| 4/22/2015 | 4:23:20 | 59.38 | 52.38 | 292 | 1.66 | 1.06 | 16.0 |
| 4/22/2015 | 4:23:31 | 59.71 | 52.71 | 43 | 1.72 | 1.36 | 2.3 |
| 4/22/2015 | 4:23:33 | 60.04 | 53.04 | 99 | 1.66 | 1.13 | 5.4 |
| 4/22/2015 | 4:23:35 | 60.37 | 53.37 | 160 | 1.74 | 1.24 | 8.7 |
| 4/22/2015 | 4:23:37 | 60.70 | 53.70 | 142 | 1.67 | 1.33 | 7.8 |
| 4/22/2015 | 4:23:45 | 61.02 | 54.02 | 6 | 1.72 | 1.24 | 0.3 |
| 4/22/2015 | 4:23:47 | 61.35 | 54.35 | 138 | 1.70 | 1.07 | 7.6 |
| 4/22/2015 | 4:23:49 | 61.68 | 54.68 | 165 | 1.77 | 1.09 | 9.0 |
| 4/22/2015 | 4:23:53 | 62.00 | 55.00 | 100 | 1.78 | 1.14 | 5.5 |

## E208 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:18:58

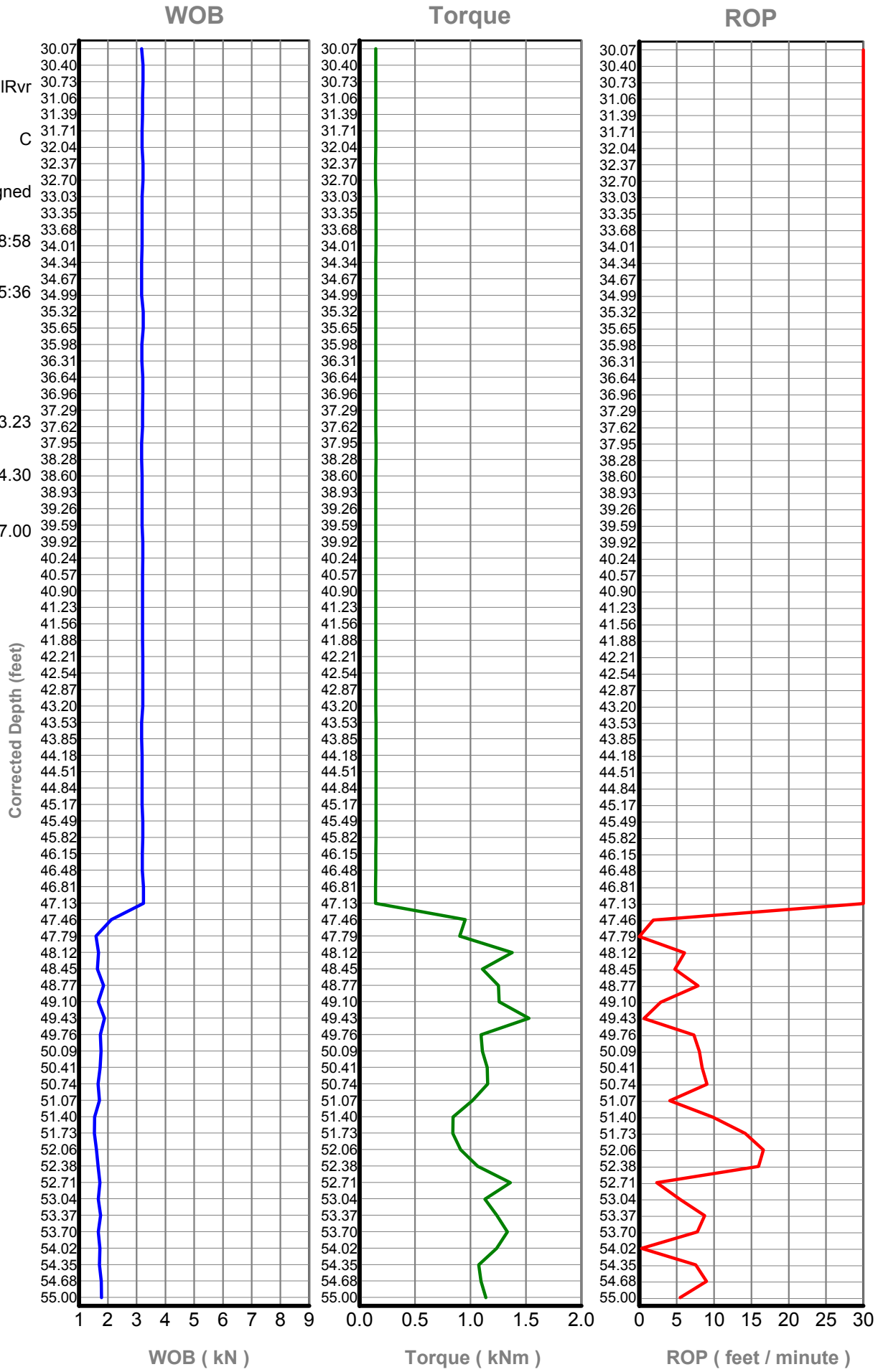
**End Date:**
4/22/2015 4:25:36

**Operator Note:**
'7 7.0 c Auto Complete'

**Northing:**
367,813.23

**Easting:**
253,034.30

**Tide (feet):**
7.00



## Hole: E209 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 18:28:54 | 34.12 | 30.32 | 1,023 | 0.28 | 0.32 | 56.0 |
| 4/21/2015 18:28:55 | 34.45 | 30.65 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/21/2015 18:28:55 | 34.78 | 30.98 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/21/2015 18:28:55 | 35.11 | 31.31 | 1,018 | 0.28 | 0.32 | 55.6 |
| 4/21/2015 18:28:56 | 35.43 | 31.63 | 1,024 | 0.27 | 0.32 | 56.0 |
| 4/21/2015 18:28:56 | 35.76 | 31.96 | 1,024 | 0.27 | 0.32 | 56.0 |
| 4/21/2015 18:28:56 | 36.09 | 32.29 | 1,018 | 0.28 | 0.32 | 55.6 |
| 4/21/2015 18:28:57 | 36.42 | 32.62 | 1,024 | 0.28 | 0.31 | 56.0 |
| 4/21/2015 18:28:57 | 36.75 | 32.95 | 1,024 | 0.28 | 0.31 | 56.0 |
| 4/21/2015 18:28:57 | 37.07 | 33.27 | 1,017 | 0.29 | 0.32 | 55.6 |
| 4/21/2015 18:28:58 | 37.40 | 33.60 | 1,023 | 0.28 | 0.31 | 56.0 |
| 4/21/2015 18:28:58 | 37.73 | 33.93 | 1,023 | 0.28 | 0.31 | 56.0 |
| 4/21/2015 18:28:58 | 38.06 | 34.26 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 18:28:59 | 38.39 | 34.59 | 1,023 | 0.28 | 0.32 | 56.0 |
| 4/21/2015 18:28:59 | 38.71 | 34.91 | 1,023 | 0.28 | 0.32 | 56.0 |
| 4/21/2015 18:28:59 | 39.04 | 35.24 | 1,014 | 0.28 | 0.32 | 55.5 |
| 4/21/2015 18:29:00 | 39.37 | 35.57 | 1,020 | 0.27 | 0.32 | 55.8 |
| 4/21/2015 18:29:00 | 39.70 | 35.90 | 1,020 | 0.27 | 0.32 | 55.8 |
| 4/21/2015 18:29:00 | 40.03 | 36.23 | 1,012 | 0.28 | 0.32 | 55.3 |
| 4/21/2015 18:29:01 | 40.35 | 36.55 | 1,003 | 0.29 | 0.32 | 54.8 |
| 4/21/2015 18:29:01 | 40.68 | 36.88 | 1,003 | 0.29 | 0.32 | 54.8 |
| 4/21/2015 18:29:01 | 41.01 | 37.21 | 1,003 | 0.27 | 0.32 | 54.9 |
| 4/21/2015 18:29:02 | 41.34 | 37.54 | 1,009 | 0.29 | 0.32 | 55.2 |
| 4/21/2015 18:29:02 | 41.67 | 37.87 | 1,009 | 0.29 | 0.32 | 55.2 |
| 4/21/2015 18:29:03 | 41.99 | 38.19 | 1,006 | 0.29 | 0.32 | 55.0 |
| 4/21/2015 18:29:03 | 42.32 | 38.52 | 1,009 | 0.28 | 0.32 | 55.2 |
| 4/21/2015 18:29:04 | 42.65 | 38.85 | 1,009 | 0.28 | 0.32 | 55.2 |
| 4/21/2015 18:29:04 | 42.98 | 39.18 | 993 | 0.29 | 0.32 | 54.3 |
| 4/21/2015 18:29:04 | 43.31 | 39.51 | 993 | 0.29 | 0.32 | 54.3 |
| 4/21/2015 18:29:05 | 43.64 | 39.84 | 1,006 | 0.28 | 0.32 | 55.0 |
| 4/21/2015 18:29:05 | 43.96 | 40.16 | 1,006 | 0.28 | 0.32 | 55.0 |
| 4/21/2015 18:29:05 | 44.29 | 40.49 | 1,009 | 0.27 | 0.32 | 55.2 |
| 4/21/2015 18:29:06 | 44.62 | 40.82 | 1,003 | 0.28 | 0.32 | 54.8 |
| 4/21/2015 18:29:06 | 44.95 | 41.15 | 1,003 | 0.28 | 0.32 | 54.8 |
| 4/21/2015 18:29:06 | 45.28 | 41.48 | 1,003 | 0.28 | 0.32 | 54.9 |
| 4/21/2015 18:29:07 | 45.60 | 41.80 | 1,022 | 0.29 | 0.32 | 55.9 |
| 4/21/2015 18:29:07 | 45.93 | 42.13 | 1,022 | 0.29 | 0.32 | 55.9 |
| 4/21/2015 18:29:07 | 46.26 | 42.46 | 1,006 | 0.27 | 0.32 | 55.0 |
| 4/21/2015 18:29:08 | 46.59 | 42.79 | 994 | 0.28 | 0.32 | 54.3 |
| 4/21/2015 18:29:08 | 46.92 | 43.12 | 994 | 0.28 | 0.32 | 54.3 |
| 4/21/2015 18:29:08 | 47.24 | 43.44 | 1,010 | 0.28 | 0.32 | 55.2 |
| 4/21/2015 18:29:09 | 47.57 | 43.77 | 1,010 | 0.28 | 0.32 | 55.2 |
| 4/21/2015 18:29:09 | 47.90 | 44.10 | 1,010 | 0.28 | 0.32 | 55.2 |
| 4/21/2015 18:29:09 | 48.23 | 44.43 | 1,013 | 0.28 | 0.32 | 55.4 |
| 4/21/2015 18:29:10 | 48.56 | 44.76 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/21/2015 18:29:10 | 48.88 | 45.08 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/21/2015 18:29:10 | 49.21 | 45.41 | 1,018 | 0.27 | 0.37 | 55.7 |
| 4/21/2015 18:29:20 | 49.54 | 45.74 | 119 | 3.81 | 0.38 | 6.5 |
| 4/21/2015 18:29:21 | 49.87 | 46.07 | 197 | 3.46 | 0.36 | 10.8 |
| 4/21/2015 18:29:22 | 50.20 | 46.40 | 253 | 4.74 | 0.37 | 13.8 |
| 4/21/2015 18:29:23 | 50.53 | 46.73 | 386 | 5.20 | 0.37 | 21.1 |
| 4/21/2015 18:29:24 | 50.85 | 47.05 | 410 | 3.73 | 0.37 | 22.4 |
| 4/21/2015 18:29:26 | 51.18 | 47.38 | 300 | 3.90 | 0.38 | 16.4 |
| 4/21/2015 18:29:27 | 51.51 | 47.71 | 241 | 4.19 | 0.38 | 13.2 |
| 4/21/2015 18:29:29 | 51.84 | 48.04 | 185 | 3.85 | 0.38 | 10.1 |
| 4/21/2015 18:29:32 | 52.17 | 48.37 | 141 | 3.67 | 0.40 | 7.7 |
| 4/21/2015 18:29:36 | 52.49 | 48.69 | 104 | 4.22 | 0.40 | 5.7 |
| 4/21/2015 18:29:40 | 52.82 | 49.02 | 81 | 4.09 | 0.40 | 4.4 |
| 4/21/2015 18:29:45 | 53.15 | 49.35 | 84 | 3.86 | 0.39 | 4.6 |
| 4/21/2015 18:29:48 | 53.48 | 49.68 | 97 | 3.79 | 0.39 | 5.3 |
| 4/21/2015 18:29:51 | 53.81 | 50.01 | 100 | 3.69 | 0.39 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 18:29:54 | 54.13 | 50.33 | 162 | 3.81 | 0.40 | 8.9 |
| 4/21/2015 | 18:30:00 | 54.46 | 50.66 | 56 | 3.48 | 0.40 | 3.1 |
| 4/21/2015 | 18:30:06 | 54.79 | 50.99 | 63 | 3.00 | 0.40 | 3.5 |
| 4/21/2015 | 18:30:14 | 55.12 | 51.32 | 44 | 3.60 | 0.39 | 2.4 |
| 4/21/2015 | 18:30:22 | 55.45 | 51.65 | 44 | 3.18 | 0.40 | 2.4 |
| 4/21/2015 | 18:30:23 | 55.51 | 51.71 | 46 | 3.23 | 0.40 | 2.5 |

## E209 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 18:25:56

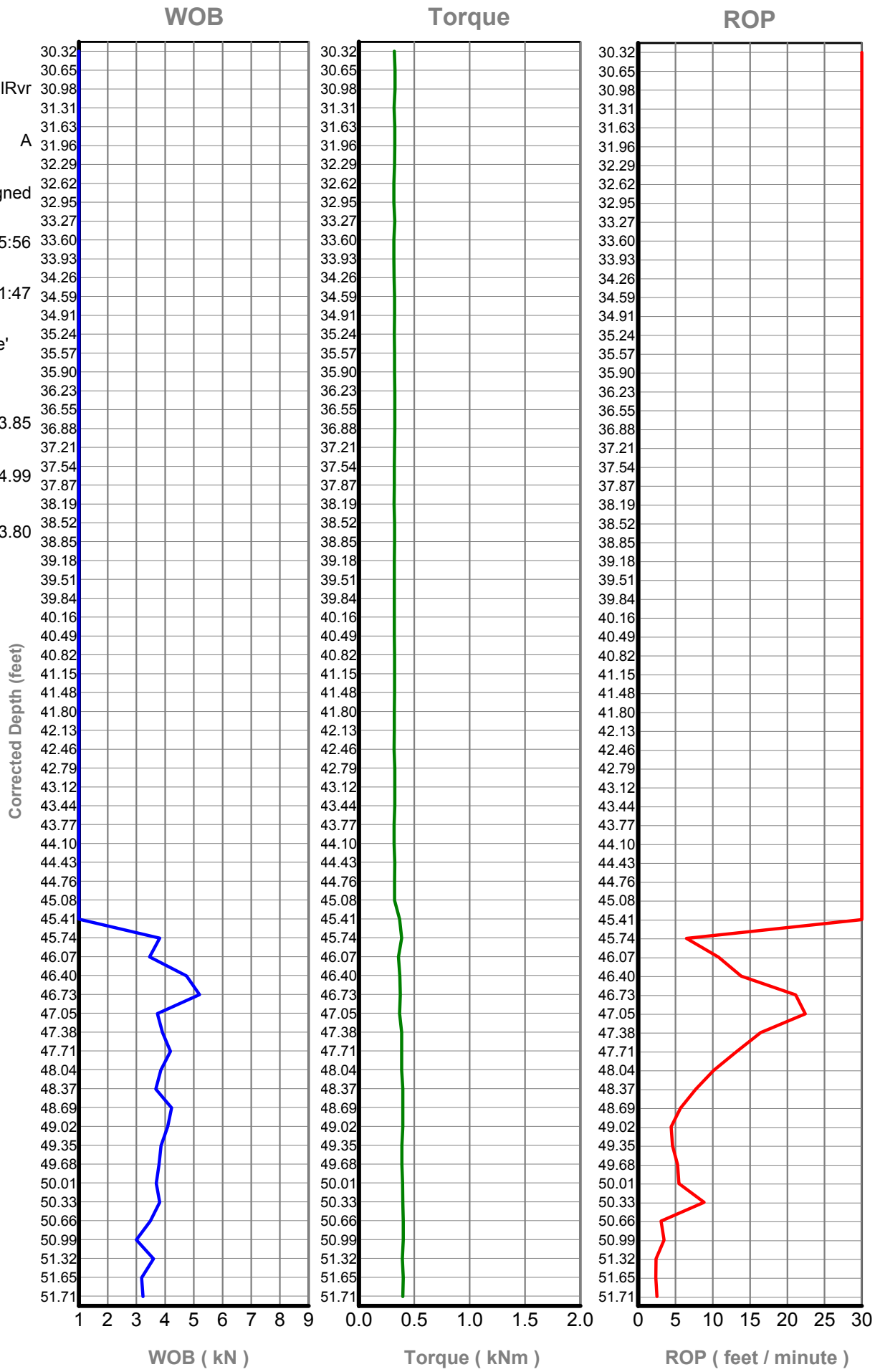
**End Date:**
4/21/2015 18:31:47

**Operator Note:**
'3.8 3.9 b Auto Complete'

**Northing:**
367,873.85

**Easting:**
253,114.99

**Tide (feet):**
3.80



## Hole: E21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:07:58 | 35.76 | 30.06 | 308 | 1.40 | 0.26 | 16.8 |
| 4/20/2015 12:07:59 | 36.09 | 30.39 | 315 | 1.43 | 0.26 | 17.2 |
| 4/20/2015 12:08:00 | 36.42 | 30.72 | 312 | 1.45 | 0.26 | 17.1 |
| 4/20/2015 12:08:01 | 36.75 | 31.05 | 317 | 1.44 | 0.26 | 17.3 |
| 4/20/2015 12:08:02 | 37.07 | 31.37 | 317 | 1.39 | 0.26 | 17.3 |
| 4/20/2015 12:08:03 | 37.40 | 31.70 | 314 | 1.37 | 0.26 | 17.2 |
| 4/20/2015 12:08:05 | 37.73 | 32.03 | 315 | 1.32 | 0.26 | 17.2 |
| 4/20/2015 12:08:06 | 38.06 | 32.36 | 307 | 1.37 | 0.26 | 16.8 |
| 4/20/2015 12:08:07 | 38.39 | 32.69 | 315 | 1.38 | 0.26 | 17.2 |
| 4/20/2015 12:08:08 | 38.71 | 33.01 | 317 | 1.39 | 0.25 | 17.3 |
| 4/20/2015 12:08:09 | 39.04 | 33.34 | 313 | 1.36 | 0.26 | 17.1 |
| 4/20/2015 12:08:11 | 39.37 | 33.67 | 314 | 1.38 | 0.26 | 17.1 |
| 4/20/2015 12:08:11 | 39.70 | 34.00 | 317 | 1.36 | 0.26 | 17.3 |
| 4/20/2015 12:08:12 | 40.03 | 34.33 | 313 | 1.51 | 0.26 | 17.1 |
| 4/20/2015 12:08:13 | 40.35 | 34.65 | 315 | 1.35 | 0.26 | 17.2 |
| 4/20/2015 12:08:15 | 40.68 | 34.98 | 315 | 1.43 | 0.26 | 17.2 |
| 4/20/2015 12:08:16 | 41.01 | 35.31 | 312 | 1.38 | 0.26 | 17.1 |
| 4/20/2015 12:08:17 | 41.34 | 35.64 | 312 | 1.41 | 0.26 | 17.1 |
| 4/20/2015 12:08:18 | 41.67 | 35.97 | 312 | 1.38 | 0.26 | 17.1 |
| 4/20/2015 12:09:16 | 41.99 | 36.29 | 26 | 2.06 | 1.10 | 1.4 |
| 4/20/2015 12:09:30 | 42.32 | 36.62 | 20 | 2.04 | 1.19 | 1.1 |
| 4/20/2015 12:09:41 | 42.65 | 36.95 | 58 | 2.05 | 1.18 | 3.2 |
| 4/20/2015 12:09:52 | 42.98 | 37.28 | 32 | 2.06 | 1.17 | 1.7 |
| 4/20/2015 12:10:03 | 43.31 | 37.61 | 29 | 2.05 | 1.18 | 1.6 |
| 4/20/2015 12:10:13 | 43.64 | 37.94 | 29 | 2.05 | 1.12 | 1.6 |
| 4/20/2015 12:10:25 | 43.96 | 38.26 | 29 | 2.05 | 1.22 | 1.6 |
| 4/20/2015 12:10:35 | 44.29 | 38.59 | 35 | 2.02 | 1.12 | 1.9 |
| 4/20/2015 12:10:42 | 44.52 | 38.82 | 29 | 1.98 | 1.25 | 1.6 |

## E21 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 12:01:05

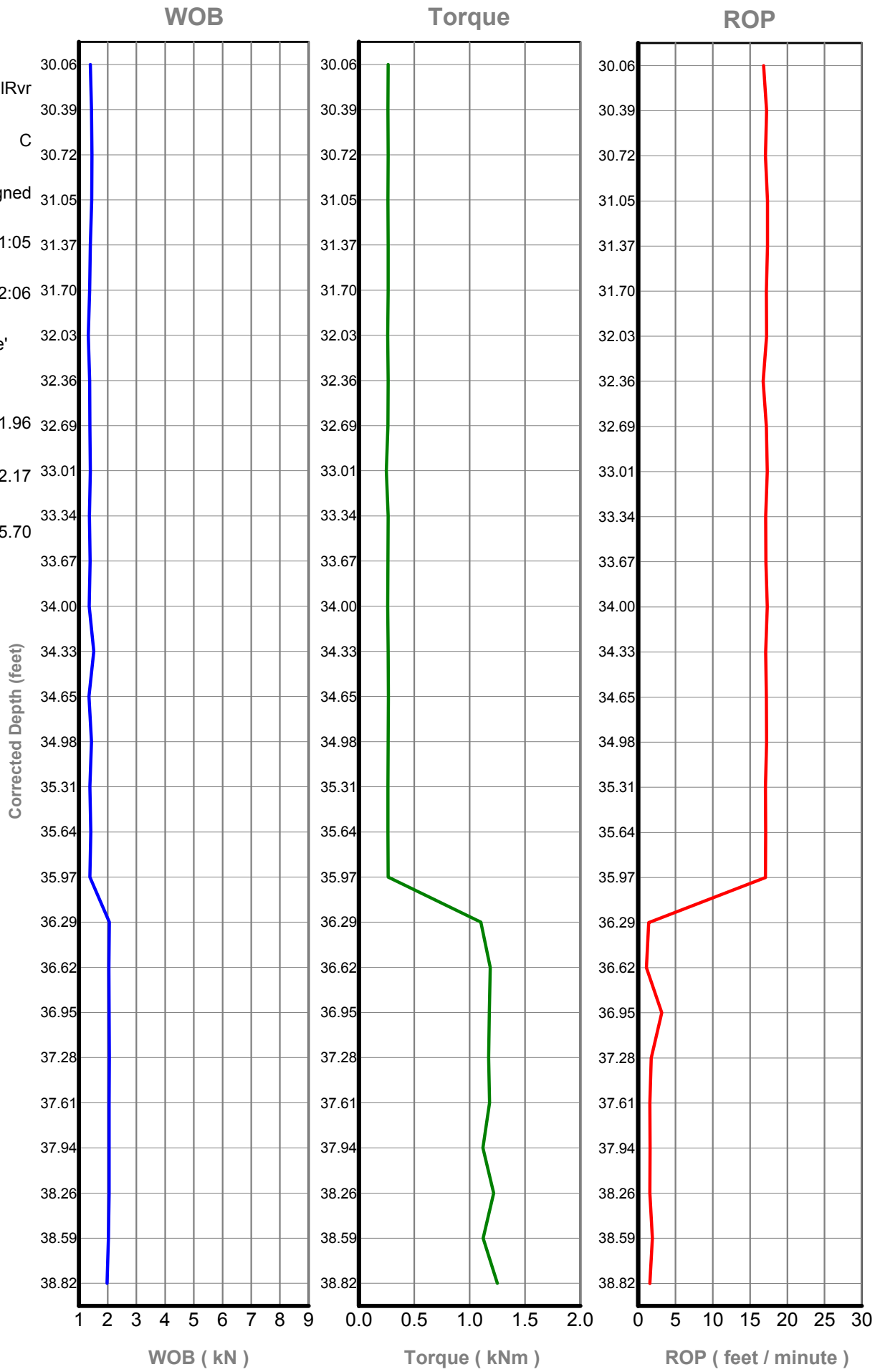
**End Date:**
4/20/2015 12:12:06

**Operator Note:**
'5.7 5.3 c Auto Complete'

**Northing:**
369,121.96

**Easting:**
253,462.17

**Tide (feet):**
5.70



## Hole: E210 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 18:33:44 | 33.79 | 30.09 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/21/2015 18:33:45 | 34.12 | 30.42 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/21/2015 18:33:45 | 34.45 | 30.75 | 1,072 | 0.29 | 0.32 | 58.6 |
| 4/21/2015 18:33:45 | 34.78 | 31.08 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/21/2015 18:33:46 | 35.11 | 31.41 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/21/2015 18:33:46 | 35.43 | 31.73 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/21/2015 18:33:46 | 35.76 | 32.06 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 18:33:47 | 36.09 | 32.39 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 18:33:47 | 36.42 | 32.72 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/21/2015 18:33:47 | 36.75 | 33.05 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/21/2015 18:33:48 | 37.07 | 33.37 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/21/2015 18:33:48 | 37.40 | 33.70 | 1,073 | 0.29 | 0.31 | 58.6 |
| 4/21/2015 18:33:48 | 37.73 | 34.03 | 1,073 | 0.29 | 0.31 | 58.6 |
| 4/21/2015 18:33:48 | 38.06 | 34.36 | 1,063 | 0.29 | 0.32 | 58.1 |
| 4/21/2015 18:33:49 | 38.39 | 34.69 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/21/2015 18:33:49 | 38.71 | 35.01 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/21/2015 18:33:49 | 39.04 | 35.34 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/21/2015 18:33:50 | 39.37 | 35.67 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 18:33:50 | 39.70 | 36.00 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 18:33:50 | 40.03 | 36.33 | 1,031 | 0.29 | 0.32 | 56.4 |
| 4/21/2015 18:33:51 | 40.35 | 36.65 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/21/2015 18:33:51 | 40.68 | 36.98 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/21/2015 18:33:51 | 41.01 | 37.31 | 1,040 | 0.29 | 0.31 | 56.9 |
| 4/21/2015 18:33:52 | 41.34 | 37.64 | 1,033 | 0.29 | 0.31 | 56.5 |
| 4/21/2015 18:33:52 | 41.67 | 37.97 | 1,033 | 0.29 | 0.31 | 56.5 |
| 4/21/2015 18:33:53 | 41.99 | 38.29 | 1,033 | 0.30 | 0.32 | 56.5 |
| 4/21/2015 18:33:53 | 42.32 | 38.62 | 1,033 | 0.30 | 0.32 | 56.5 |
| 4/21/2015 18:33:53 | 42.65 | 38.95 | 1,033 | 0.29 | 0.31 | 56.5 |
| 4/21/2015 18:33:54 | 42.98 | 39.28 | 1,036 | 0.29 | 0.31 | 56.7 |
| 4/21/2015 18:33:54 | 43.31 | 39.61 | 1,036 | 0.29 | 0.31 | 56.7 |
| 4/21/2015 18:33:54 | 43.64 | 39.94 | 1,079 | 0.29 | 0.31 | 59.0 |
| 4/21/2015 18:33:55 | 43.96 | 40.26 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 18:33:55 | 44.29 | 40.59 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 18:33:55 | 44.62 | 40.92 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/21/2015 18:33:56 | 44.95 | 41.25 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/21/2015 18:33:56 | 45.28 | 41.58 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/21/2015 18:33:56 | 45.60 | 41.90 | 1,081 | 0.29 | 0.32 | 59.1 |
| 4/21/2015 18:33:57 | 45.93 | 42.23 | 1,042 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 18:33:57 | 46.26 | 42.56 | 1,042 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 18:33:57 | 46.59 | 42.89 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 18:33:58 | 46.92 | 43.22 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 18:33:58 | 47.24 | 43.54 | 1,036 | 0.31 | 0.31 | 56.6 |
| 4/21/2015 18:33:58 | 47.57 | 43.87 | 1,067 | 0.29 | 0.32 | 58.4 |
| 4/21/2015 18:33:59 | 47.90 | 44.20 | 1,067 | 0.29 | 0.32 | 58.4 |
| 4/21/2015 18:33:59 | 48.23 | 44.53 | 1,067 | 0.29 | 0.31 | 58.4 |
| 4/21/2015 18:33:59 | 48.56 | 44.86 | 1,071 | 0.29 | 0.32 | 58.6 |
| 4/21/2015 18:34:00 | 48.88 | 45.18 | 1,071 | 0.29 | 0.32 | 58.6 |
| 4/21/2015 18:34:10 | 49.21 | 45.51 | 113 | 3.60 | 0.38 | 6.2 |
| 4/21/2015 18:34:14 | 49.54 | 45.84 | 82 | 3.36 | 0.39 | 4.5 |
| 4/21/2015 18:36:13 | 49.87 | 46.17 | 33 | 3.15 | 0.40 | 1.8 |
| 4/21/2015 18:36:20 | 50.20 | 46.50 | 61 | 2.94 | 0.40 | 3.3 |
| 4/21/2015 18:36:25 | 50.53 | 46.83 | 69 | 3.54 | 0.41 | 3.8 |
| 4/21/2015 18:36:31 | 50.85 | 47.15 | 63 | 3.75 | 0.39 | 3.5 |
| 4/21/2015 18:36:33 | 51.00 | 47.30 | 67 | 3.75 | 0.40 | 3.7 |

## E210 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 18:32:32

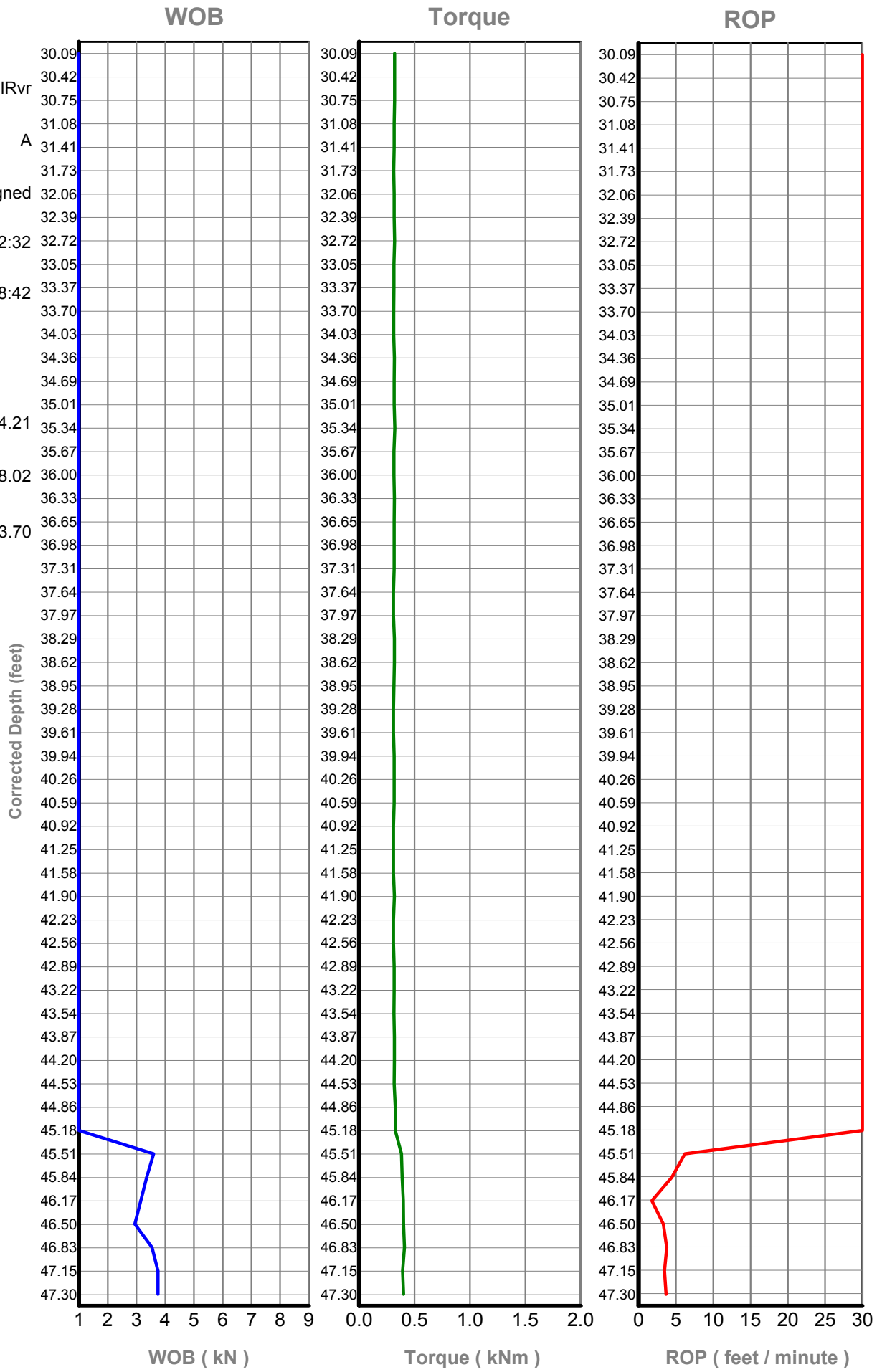
**End Date:**
4/21/2015 18:38:42

**Operator Note:**
'3.7 3.9 b Rock'

**Northing:**
367,914.21

**Easting:**
253,158.02

**Tide (feet):**
3.70



## Hole: E211 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 18:30:30 | 33.79 | 30.09 | 328 | 1.28 | 0.29 | 17.9 |
| 4/21/2015 18:30:31 | 34.12 | 30.42 | 336 | 1.28 | 0.29 | 18.4 |
| 4/21/2015 18:30:32 | 34.45 | 30.75 | 330 | 1.28 | 0.28 | 18.0 |
| 4/21/2015 18:30:33 | 34.78 | 31.08 | 332 | 1.30 | 0.29 | 18.2 |
| 4/21/2015 18:30:34 | 35.11 | 31.41 | 327 | 1.28 | 0.29 | 17.9 |
| 4/21/2015 18:30:35 | 35.43 | 31.73 | 327 | 1.35 | 0.29 | 17.9 |
| 4/21/2015 18:30:37 | 35.76 | 32.06 | 330 | 1.27 | 0.30 | 18.0 |
| 4/21/2015 18:30:38 | 36.09 | 32.39 | 332 | 1.27 | 0.29 | 18.2 |
| 4/21/2015 18:30:39 | 36.42 | 32.72 | 330 | 1.29 | 0.29 | 18.0 |
| 4/21/2015 18:30:40 | 36.75 | 33.05 | 322 | 1.28 | 0.29 | 17.6 |
| 4/21/2015 18:30:41 | 37.07 | 33.37 | 320 | 1.29 | 0.29 | 17.5 |
| 4/21/2015 18:30:42 | 37.40 | 33.70 | 321 | 1.32 | 0.29 | 17.6 |
| 4/21/2015 18:30:43 | 37.73 | 34.03 | 327 | 1.29 | 0.29 | 17.9 |
| 4/21/2015 18:30:44 | 38.06 | 34.36 | 333 | 1.28 | 0.29 | 18.2 |
| 4/21/2015 18:30:45 | 38.39 | 34.69 | 329 | 1.26 | 0.29 | 18.0 |
| 4/21/2015 18:30:46 | 38.71 | 35.01 | 330 | 1.26 | 0.29 | 18.0 |
| 4/21/2015 18:30:48 | 39.04 | 35.34 | 323 | 1.21 | 0.28 | 17.7 |
| 4/21/2015 18:30:49 | 39.37 | 35.67 | 330 | 1.30 | 0.29 | 18.0 |
| 4/21/2015 18:30:50 | 39.70 | 36.00 | 327 | 1.28 | 0.29 | 17.9 |
| 4/21/2015 18:30:51 | 40.03 | 36.33 | 321 | 1.26 | 0.29 | 17.6 |
| 4/21/2015 18:30:52 | 40.35 | 36.65 | 322 | 1.28 | 0.29 | 17.6 |
| 4/21/2015 18:30:53 | 40.68 | 36.98 | 329 | 1.27 | 0.27 | 18.0 |
| 4/21/2015 18:30:54 | 41.01 | 37.31 | 330 | 1.28 | 0.29 | 18.0 |
| 4/21/2015 18:30:55 | 41.34 | 37.64 | 327 | 1.26 | 0.29 | 17.9 |
| 4/21/2015 18:30:56 | 41.67 | 37.97 | 327 | 1.28 | 0.29 | 17.9 |
| 4/21/2015 18:30:57 | 41.99 | 38.29 | 327 | 1.30 | 0.29 | 17.9 |
| 4/21/2015 18:30:59 | 42.32 | 38.62 | 327 | 1.26 | 0.29 | 17.9 |
| 4/21/2015 18:31:00 | 42.65 | 38.95 | 325 | 1.28 | 0.29 | 17.8 |
| 4/21/2015 18:31:01 | 42.98 | 39.28 | 326 | 1.32 | 0.29 | 17.8 |
| 4/21/2015 18:31:02 | 43.31 | 39.61 | 328 | 1.30 | 0.29 | 18.0 |
| 4/21/2015 18:31:03 | 43.64 | 39.94 | 324 | 1.31 | 0.29 | 17.7 |
| 4/21/2015 18:31:04 | 43.96 | 40.26 | 322 | 1.26 | 0.29 | 17.6 |
| 4/21/2015 18:31:05 | 44.29 | 40.59 | 327 | 1.26 | 0.30 | 17.9 |
| 4/21/2015 18:31:06 | 44.62 | 40.92 | 327 | 1.31 | 0.29 | 17.9 |
| 4/21/2015 18:31:07 | 44.95 | 41.25 | 327 | 1.25 | 0.29 | 17.9 |
| 4/21/2015 18:31:09 | 45.28 | 41.58 | 327 | 1.30 | 0.29 | 17.9 |
| 4/21/2015 18:31:10 | 45.60 | 41.90 | 327 | 1.26 | 0.29 | 17.9 |
| 4/21/2015 18:31:11 | 45.93 | 42.23 | 325 | 1.28 | 0.29 | 17.8 |
| 4/21/2015 18:31:12 | 46.26 | 42.56 | 310 | 1.76 | 0.29 | 16.9 |
| 4/21/2015 18:31:31 | 46.59 | 42.89 | 46 | 1.76 | 1.19 | 2.5 |
| 4/21/2015 18:31:40 | 46.92 | 43.22 | 43 | 1.76 | 1.10 | 2.3 |
| 4/21/2015 18:31:49 | 47.24 | 43.54 | 43 | 1.74 | 1.12 | 2.4 |
| 4/21/2015 18:31:56 | 47.57 | 43.87 | 38 | 1.76 | 1.10 | 2.1 |
| 4/21/2015 18:32:04 | 47.90 | 44.20 | 35 | 1.81 | 1.13 | 1.9 |
| 4/21/2015 18:32:15 | 48.23 | 44.53 | 36 | 1.75 | 1.03 | 2.0 |
| 4/21/2015 18:32:27 | 48.56 | 44.86 | 30 | 1.81 | 1.07 | 1.7 |
| 4/21/2015 18:32:33 | 48.88 | 45.18 | 52 | 1.75 | 1.04 | 2.8 |
| 4/21/2015 18:32:43 | 49.21 | 45.51 | 38 | 1.78 | 1.04 | 2.1 |
| 4/21/2015 18:32:44 | 49.31 | 45.61 | 42 | 1.70 | 1.05 | 2.3 |

## E211 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 18:28:17

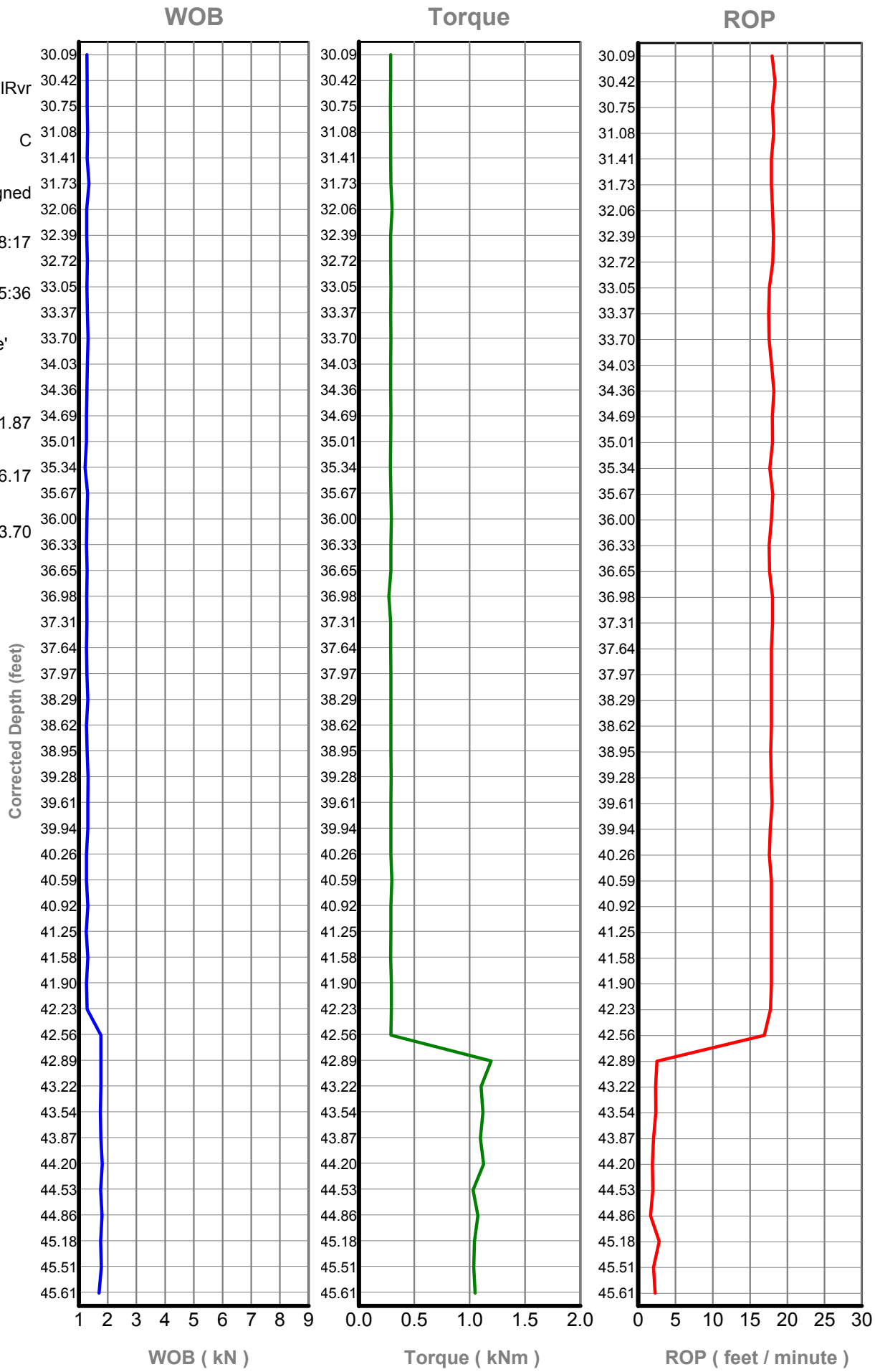
**End Date:**
4/21/2015 18:35:36

**Operator Note:**
'3.7 3.9 c Auto Complete'

**Northing:**
367,961.87

**Easting:**
253,216.17

**Tide (feet):**
3.70



## Hole: E212 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:39:03 | 35.11 | 30.21 | 1,095 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:39:03 | 35.43 | 30.53 | 1,096 | 1.73 | 0.21 | 60.0 |
| 4/21/2015 13:39:04 | 35.76 | 30.86 | 1,096 | 1.73 | 0.21 | 60.0 |
| 4/21/2015 13:39:04 | 36.09 | 31.19 | 1,100 | 1.73 | 0.21 | 60.2 |
| 4/21/2015 13:39:04 | 36.42 | 31.52 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:05 | 36.75 | 31.85 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:05 | 37.07 | 32.17 | 1,103 | 1.73 | 0.21 | 60.3 |
| 4/21/2015 13:39:05 | 37.40 | 32.50 | 1,109 | 1.73 | 0.21 | 60.7 |
| 4/21/2015 13:39:06 | 37.73 | 32.83 | 1,109 | 1.73 | 0.21 | 60.7 |
| 4/21/2015 13:39:06 | 38.06 | 33.16 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:07 | 38.39 | 33.49 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:07 | 38.71 | 33.81 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:39:07 | 39.04 | 34.14 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 13:39:08 | 39.37 | 34.47 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 13:39:08 | 39.70 | 34.80 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:08 | 40.03 | 35.13 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:09 | 40.35 | 35.45 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:09 | 40.68 | 35.78 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:09 | 41.01 | 36.11 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:09 | 41.34 | 36.44 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:10 | 41.67 | 36.77 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:10 | 41.99 | 37.09 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 13:39:10 | 42.32 | 37.42 | 1,102 | 1.73 | 0.21 | 60.3 |
| 4/21/2015 13:39:11 | 42.65 | 37.75 | 1,102 | 1.73 | 0.21 | 60.3 |
| 4/21/2015 13:39:11 | 42.98 | 38.08 | 1,102 | 1.73 | 0.21 | 60.3 |
| 4/21/2015 13:39:11 | 43.31 | 38.41 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 13:39:12 | 43.64 | 38.74 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 13:39:12 | 43.96 | 39.06 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 13:39:12 | 44.29 | 39.39 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:39:13 | 44.62 | 39.72 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:39:13 | 44.95 | 40.05 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:13 | 45.28 | 40.38 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:14 | 45.60 | 40.70 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:14 | 45.93 | 41.03 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 13:39:14 | 46.26 | 41.36 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:39:15 | 46.59 | 41.69 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:39:15 | 46.92 | 42.02 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:39:15 | 47.24 | 42.34 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:39:15 | 47.57 | 42.67 | 1,088 | 1.73 | 0.21 | 59.5 |
| 4/21/2015 13:39:16 | 47.90 | 43.00 | 1,094 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:16 | 48.23 | 43.33 | 1,094 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 13:39:16 | 48.56 | 43.66 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:39:23 | 48.88 | 43.98 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 13:39:24 | 49.21 | 44.31 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 13:39:37 | 49.54 | 44.64 | 15 | 1.73 | 0.21 | 0.8 |
| 4/21/2015 13:39:48 | 49.87 | 44.97 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 13:39:59 | 50.20 | 45.30 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 13:40:06 | 50.53 | 45.63 | 49 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 13:40:13 | 50.85 | 45.95 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 13:40:21 | 51.18 | 46.28 | 52 | 1.73 | 0.21 | 2.9 |

## E212 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 13:37:41

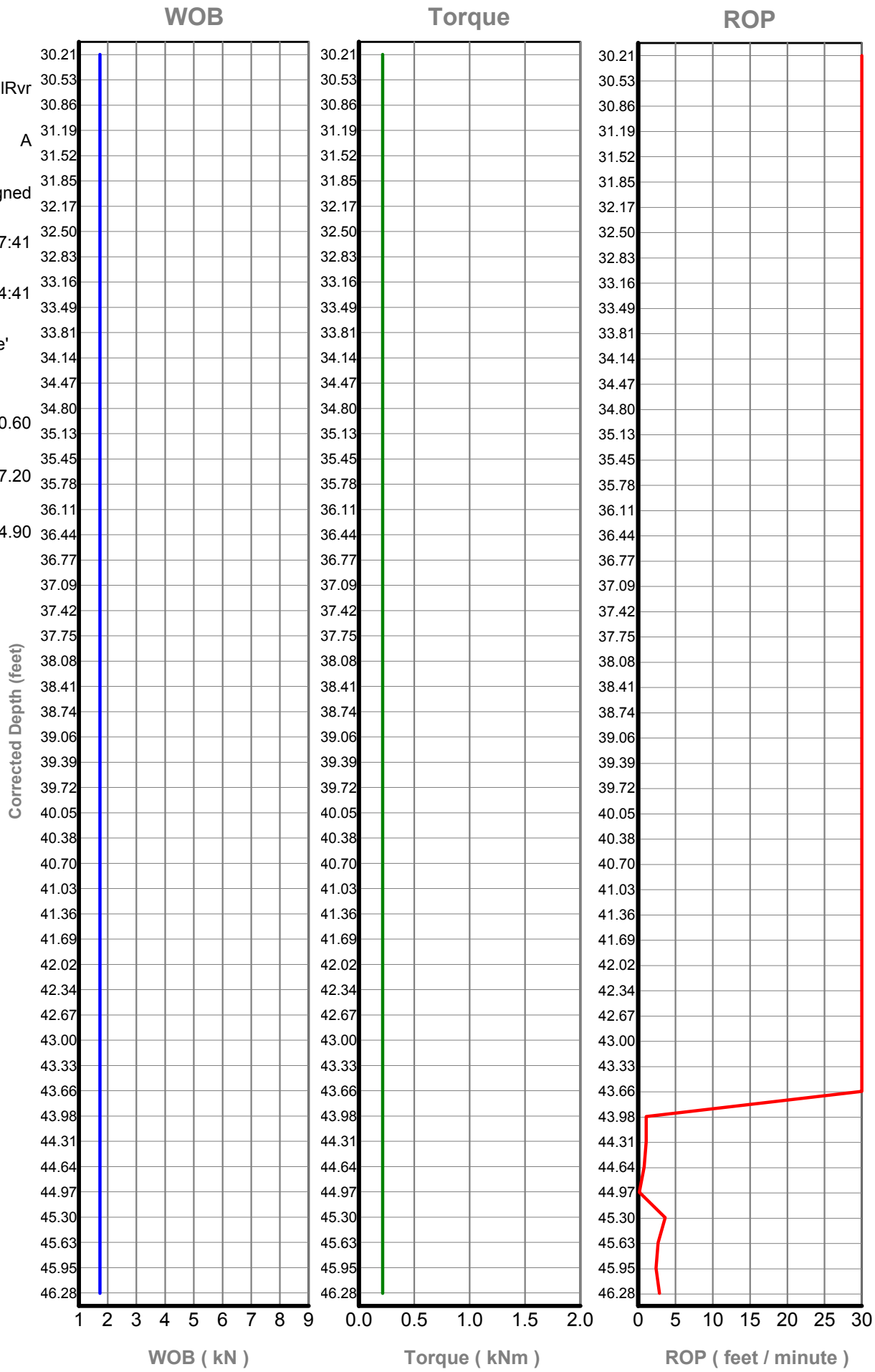
**End Date:**
4/21/2015 13:44:41

**Operator Note:**
'4.9 4.8 b Auto Complete'

**Northing:**
368,020.60

**Easting:**
253,287.20

**Tide (feet):**
4.90



## Hole: E213 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:33:01 | 35.11 | 30.31 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:01 | 35.43 | 30.63 | 1,083 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 13:33:01 | 35.76 | 30.96 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:02 | 36.09 | 31.29 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:02 | 36.42 | 31.62 | 1,089 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 13:33:03 | 36.75 | 31.95 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 13:33:03 | 37.07 | 32.27 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 13:33:03 | 37.40 | 32.60 | 1,088 | 1.73 | 0.21 | 59.5 |
| 4/21/2015 13:33:04 | 37.73 | 32.93 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:33:04 | 38.06 | 33.26 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:33:04 | 38.39 | 33.59 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:33:05 | 38.71 | 33.91 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:33:05 | 39.04 | 34.24 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 13:33:05 | 39.37 | 34.57 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 13:33:06 | 39.70 | 34.90 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 13:33:06 | 40.03 | 35.23 | 1,078 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 13:33:06 | 40.35 | 35.55 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 13:33:07 | 40.68 | 35.88 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 13:33:07 | 41.01 | 36.21 | 1,074 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:07 | 41.34 | 36.54 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 13:33:08 | 41.67 | 36.87 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 13:33:08 | 41.99 | 37.19 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 13:33:08 | 42.32 | 37.52 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:33:09 | 42.65 | 37.85 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:33:09 | 42.98 | 38.18 | 1,086 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 13:33:09 | 43.31 | 38.51 | 1,086 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 13:33:09 | 43.64 | 38.84 | 1,086 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 13:33:10 | 43.96 | 39.16 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:10 | 44.29 | 39.49 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 13:33:10 | 44.62 | 39.82 | 1,092 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 13:33:11 | 44.95 | 40.15 | 1,095 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:33:11 | 45.28 | 40.48 | 1,095 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 13:33:11 | 45.60 | 40.80 | 1,086 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 13:33:12 | 45.93 | 41.13 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 13:33:12 | 46.26 | 41.46 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 13:33:12 | 46.59 | 41.79 | 1,092 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 13:33:13 | 46.92 | 42.12 | 1,092 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 13:33:13 | 47.24 | 42.44 | 1,085 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 13:33:14 | 47.57 | 42.77 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 13:33:14 | 47.90 | 43.10 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 13:33:14 | 48.23 | 43.43 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 13:33:15 | 48.56 | 43.76 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 13:33:15 | 48.88 | 44.08 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 13:33:15 | 49.21 | 44.41 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:33:16 | 49.54 | 44.74 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:33:16 | 49.87 | 45.07 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:33:16 | 50.20 | 45.40 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 13:34:27 | 50.53 | 45.73 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 13:34:42 | 50.85 | 46.05 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 13:34:50 | 51.18 | 46.38 | 40 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 13:35:02 | 51.51 | 46.71 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 13:35:11 | 51.84 | 47.04 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 13:35:18 | 52.17 | 47.37 | 49 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 13:35:24 | 52.40 | 47.60 | 47 | 1.73 | 0.21 | 2.6 |

## E213 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 13:31:42

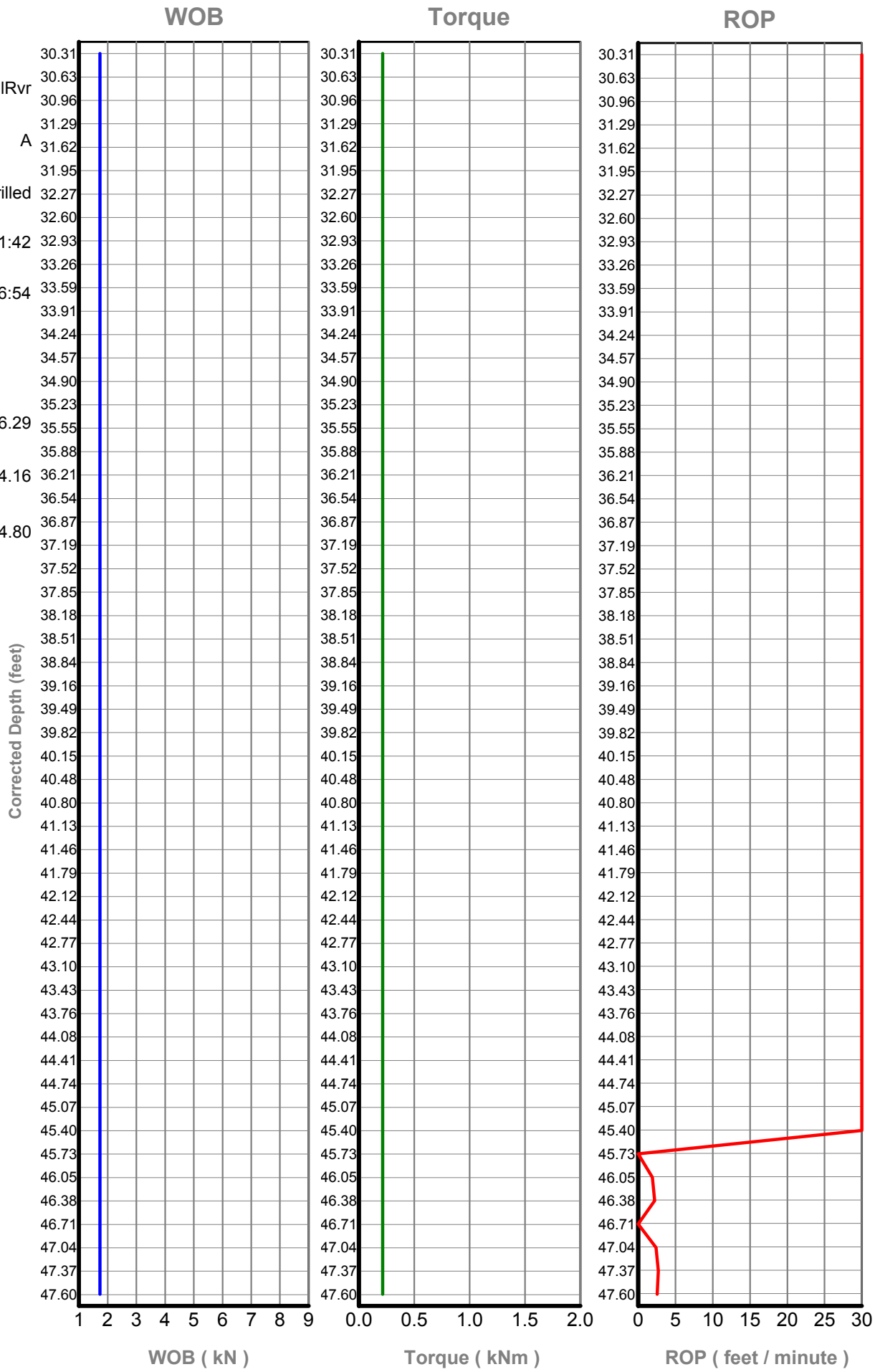
**End Date:**
4/21/2015 13:36:54

**Operator Note:**
'4.8 4.6 b Rock'

**Northing:**
368,056.29

**Easting:**
253,334.16

**Tide (feet):**
4.80



## Hole: E214 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:28:18 | 35.11 | 30.31 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:19 | 35.43 | 30.63 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:19 | 35.76 | 30.96 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:19 | 36.09 | 31.29 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:20 | 36.42 | 31.62 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:20 | 36.75 | 31.95 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:20 | 37.07 | 32.27 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:21 | 37.40 | 32.60 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:21 | 37.73 | 32.93 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:21 | 38.06 | 33.26 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:28:22 | 38.39 | 33.59 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:22 | 38.71 | 33.91 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:22 | 39.04 | 34.24 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:28:23 | 39.37 | 34.57 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:23 | 39.70 | 34.90 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:23 | 40.03 | 35.23 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:24 | 40.35 | 35.55 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:24 | 40.68 | 35.88 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:24 | 41.01 | 36.21 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:25 | 41.34 | 36.54 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:25 | 41.67 | 36.87 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:25 | 41.99 | 37.19 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:26 | 42.32 | 37.52 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:26 | 42.65 | 37.85 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:26 | 42.98 | 38.18 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:27 | 43.31 | 38.51 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:27 | 43.64 | 38.84 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:27 | 43.96 | 39.16 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:28 | 44.29 | 39.49 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:29 | 44.62 | 39.82 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:29 | 44.95 | 40.15 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:29 | 45.28 | 40.48 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:28:30 | 45.60 | 40.80 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:28:30 | 45.93 | 41.13 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:28:30 | 46.26 | 41.46 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:28:30 | 46.59 | 41.79 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:31 | 46.92 | 42.12 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:28:31 | 47.24 | 42.44 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:28:31 | 47.57 | 42.77 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:32 | 47.90 | 43.10 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:28:32 | 48.23 | 43.43 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:28:32 | 48.56 | 43.76 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:28:33 | 48.88 | 44.08 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 13:28:33 | 49.21 | 44.41 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 13:28:33 | 49.54 | 44.74 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 13:28:34 | 49.87 | 45.07 | 1,040 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:28:34 | 50.20 | 45.40 | 1,040 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:28:34 | 50.53 | 45.73 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:28:35 | 50.85 | 46.05 | 1,045 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:35 | 51.18 | 46.38 | 1,045 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:28:35 | 51.51 | 46.71 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 13:28:36 | 51.84 | 47.04 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:36 | 52.17 | 47.37 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:28:36 | 52.49 | 47.69 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:28:37 | 52.82 | 48.02 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:28:37 | 53.15 | 48.35 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:28:37 | 53.48 | 48.68 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:28:46 | 53.81 | 49.01 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 13:28:47 | 54.13 | 49.33 | 141 | 1.73 | 0.21 | 7.7 |
| 4/21/2015 13:28:47 | 54.46 | 49.66 | 277 | 1.73 | 0.21 | 15.2 |
| 4/21/2015 13:28:48 | 54.79 | 49.99 | 423 | 1.73 | 0.21 | 23.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 13:28:48 | 55.12 | 50.32 | 563 | 1.73 | 0.21 | 30.8 |
| 4/21/2015 | 13:28:49 | 55.45 | 50.65 | 713 | 1.73 | 0.21 | 39.0 |
| 4/21/2015 | 13:28:49 | 55.77 | 50.97 | 712 | 1.73 | 0.21 | 38.9 |
| 4/21/2015 | 13:28:50 | 56.10 | 51.30 | 708 | 1.73 | 0.21 | 38.7 |
| 4/21/2015 | 13:28:50 | 56.43 | 51.63 | 704 | 1.73 | 0.21 | 38.5 |
| 4/21/2015 | 13:28:51 | 56.76 | 51.96 | 685 | 1.73 | 0.21 | 37.5 |
| 4/21/2015 | 13:28:52 | 57.09 | 52.29 | 675 | 1.73 | 0.21 | 36.9 |
| 4/21/2015 | 13:28:52 | 57.41 | 52.61 | 653 | 1.73 | 0.21 | 35.7 |
| 4/21/2015 | 13:28:53 | 57.74 | 52.94 | 605 | 1.73 | 0.21 | 33.1 |
| 4/21/2015 | 13:28:55 | 58.07 | 53.27 | 352 | 1.73 | 0.21 | 19.3 |
| 4/21/2015 | 13:29:01 | 58.40 | 53.60 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 13:29:05 | 58.73 | 53.93 | 104 | 1.73 | 0.21 | 5.7 |
| 4/21/2015 | 13:29:12 | 59.06 | 54.26 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 | 13:29:13 | 59.38 | 54.58 | 118 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 | 13:29:15 | 59.48 | 54.68 | 174 | 1.73 | 0.21 | 9.5 |

## E214 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 13:27:22

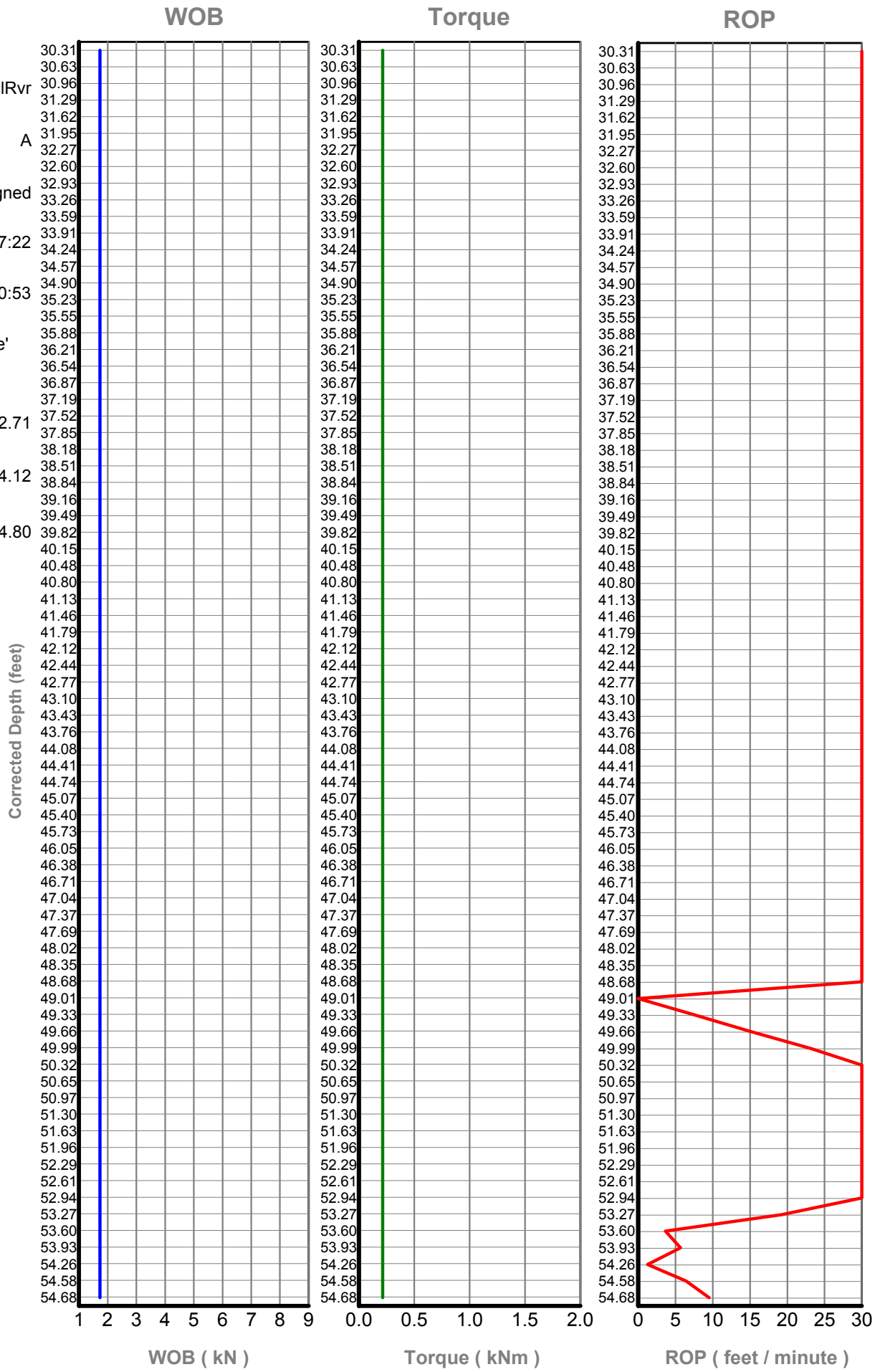
**End Date:**
4/21/2015 13:30:53

**Operator Note:**
'4.8 4.5 b Auto Complete'

**Northing:**
368,102.71

**Easting:**
253,394.12

**Tide (feet):**
4.80



## Hole: E215 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:37:03 | 37.07 | 30.07 | 916 | 0.32 | 0.33 | 50.1 |
| 4/22/2015 4:37:04 | 37.40 | 30.40 | 916 | 0.32 | 0.33 | 50.1 |
| 4/22/2015 4:37:04 | 37.73 | 30.73 | 945 | 0.32 | 0.32 | 51.7 |
| 4/22/2015 4:37:04 | 38.06 | 31.06 | 940 | 0.31 | 0.33 | 51.4 |
| 4/22/2015 4:37:05 | 38.39 | 31.39 | 940 | 0.31 | 0.33 | 51.4 |
| 4/22/2015 4:37:05 | 38.71 | 31.71 | 940 | 0.31 | 0.33 | 51.4 |
| 4/22/2015 4:37:05 | 39.04 | 32.04 | 974 | 0.31 | 0.33 | 53.2 |
| 4/22/2015 4:37:06 | 39.37 | 32.37 | 955 | 0.39 | 0.33 | 52.2 |
| 4/22/2015 4:37:06 | 39.70 | 32.70 | 955 | 0.39 | 0.33 | 52.2 |
| 4/22/2015 4:37:06 | 40.03 | 33.03 | 955 | 0.39 | 0.34 | 52.2 |
| 4/22/2015 4:37:07 | 40.35 | 33.35 | 958 | 0.31 | 0.34 | 52.4 |
| 4/22/2015 4:37:07 | 40.68 | 33.68 | 958 | 0.31 | 0.34 | 52.4 |
| 4/22/2015 4:37:07 | 41.01 | 34.01 | 961 | 0.32 | 0.33 | 52.5 |
| 4/22/2015 4:37:08 | 41.34 | 34.34 | 961 | 0.37 | 0.34 | 52.5 |
| 4/22/2015 4:37:09 | 41.67 | 34.67 | 919 | 0.33 | 0.33 | 50.2 |
| 4/22/2015 4:37:09 | 41.99 | 34.99 | 919 | 0.33 | 0.33 | 50.2 |
| 4/22/2015 4:37:09 | 42.32 | 35.32 | 946 | 0.33 | 0.33 | 51.7 |
| 4/22/2015 4:37:10 | 42.65 | 35.65 | 946 | 0.33 | 0.33 | 51.7 |
| 4/22/2015 4:37:10 | 42.98 | 35.98 | 951 | 0.32 | 0.33 | 52.0 |
| 4/22/2015 4:37:11 | 43.31 | 36.31 | 951 | 0.32 | 0.33 | 52.0 |
| 4/22/2015 4:37:11 | 43.64 | 36.64 | 942 | 0.33 | 0.33 | 51.5 |
| 4/22/2015 4:37:11 | 43.96 | 36.96 | 945 | 0.34 | 0.33 | 51.7 |
| 4/22/2015 4:37:12 | 44.29 | 37.29 | 945 | 0.34 | 0.33 | 51.7 |
| 4/22/2015 4:37:12 | 44.62 | 37.62 | 960 | 0.30 | 0.33 | 52.5 |
| 4/22/2015 4:37:12 | 44.95 | 37.95 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 4:37:13 | 45.28 | 38.28 | 947 | 0.32 | 0.33 | 51.8 |
| 4/22/2015 4:37:13 | 45.60 | 38.60 | 947 | 0.32 | 0.33 | 51.8 |
| 4/22/2015 4:37:13 | 45.93 | 38.93 | 941 | 0.32 | 0.33 | 51.4 |
| 4/22/2015 4:37:14 | 46.26 | 39.26 | 950 | 0.31 | 0.33 | 51.9 |
| 4/22/2015 4:37:14 | 46.59 | 39.59 | 950 | 0.31 | 0.33 | 51.9 |
| 4/22/2015 4:37:14 | 46.92 | 39.92 | 950 | 0.31 | 0.33 | 51.9 |
| 4/22/2015 4:37:15 | 47.24 | 40.24 | 960 | 0.31 | 0.33 | 52.5 |
| 4/22/2015 4:37:15 | 47.57 | 40.57 | 970 | 0.32 | 0.33 | 53.0 |
| 4/22/2015 4:37:16 | 47.90 | 40.90 | 970 | 0.32 | 0.33 | 53.0 |
| 4/22/2015 4:37:16 | 48.23 | 41.23 | 988 | 0.31 | 0.33 | 54.0 |
| 4/22/2015 4:37:16 | 48.56 | 41.56 | 974 | 0.31 | 0.33 | 53.2 |
| 4/22/2015 4:37:17 | 48.88 | 41.88 | 974 | 0.31 | 0.33 | 53.2 |
| 4/22/2015 4:37:17 | 49.21 | 42.21 | 967 | 0.32 | 0.33 | 52.9 |
| 4/22/2015 4:37:17 | 49.54 | 42.54 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 4:37:18 | 49.87 | 42.87 | 960 | 0.32 | 0.33 | 52.5 |
| 4/22/2015 4:37:18 | 50.20 | 43.20 | 960 | 0.32 | 0.33 | 52.5 |
| 4/22/2015 4:37:18 | 50.53 | 43.53 | 957 | 0.32 | 0.33 | 52.3 |
| 4/22/2015 4:37:19 | 50.85 | 43.85 | 960 | 0.31 | 0.33 | 52.5 |
| 4/22/2015 4:37:20 | 51.18 | 44.18 | 960 | 0.31 | 0.33 | 52.5 |
| 4/22/2015 4:37:20 | 51.51 | 44.51 | 954 | 0.32 | 0.33 | 52.2 |
| 4/22/2015 4:37:20 | 51.84 | 44.84 | 963 | 0.32 | 0.33 | 52.6 |
| 4/22/2015 4:37:21 | 52.17 | 45.17 | 960 | 0.31 | 0.33 | 52.5 |
| 4/22/2015 4:37:21 | 52.49 | 45.49 | 960 | 0.31 | 0.33 | 52.5 |
| 4/22/2015 4:37:21 | 52.82 | 45.82 | 954 | 0.32 | 0.33 | 52.2 |
| 4/22/2015 4:37:22 | 53.15 | 46.15 | 948 | 0.32 | 0.33 | 51.9 |
| 4/22/2015 4:37:22 | 53.48 | 46.48 | 948 | 0.32 | 0.33 | 51.9 |
| 4/22/2015 4:37:22 | 53.81 | 46.81 | 951 | 0.32 | 0.33 | 52.0 |
| 4/22/2015 4:37:23 | 54.13 | 47.13 | 945 | 0.31 | 0.33 | 51.7 |
| 4/22/2015 4:37:23 | 54.46 | 47.46 | 939 | 0.32 | 0.33 | 51.4 |
| 4/22/2015 4:37:24 | 54.79 | 47.79 | 939 | 0.32 | 0.33 | 51.4 |
| 4/22/2015 4:37:24 | 55.12 | 48.12 | 934 | 0.30 | 0.35 | 51.1 |
| 4/22/2015 4:37:51 | 55.45 | 48.45 | 0 | 2.59 | 0.35 | 0.0 |
| 4/22/2015 4:37:51 | 55.77 | 48.77 | 109 | 2.89 | 0.36 | 5.9 |
| 4/22/2015 4:37:52 | 56.10 | 49.10 | 241 | 2.84 | 0.36 | 13.2 |
| 4/22/2015 4:37:52 | 56.43 | 49.43 | 364 | 2.74 | 0.36 | 19.9 |
| 4/22/2015 4:37:53 | 56.76 | 49.76 | 484 | 2.16 | 0.35 | 26.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:37:53 | 57.09 | 50.09 | 627 | 3.56 | 0.37 | 34.3 |
| 4/22/2015 | 4:37:54 | 57.41 | 50.41 | 571 | 4.55 | 0.40 | 31.2 |
| 4/22/2015 | 4:37:57 | 57.74 | 50.74 | 87 | 4.74 | 0.37 | 4.7 |
| 4/22/2015 | 4:37:59 | 58.07 | 51.07 | 156 | 3.01 | 0.38 | 8.5 |
| 4/22/2015 | 4:38:00 | 58.40 | 51.40 | 250 | 3.79 | 0.39 | 13.7 |
| 4/22/2015 | 4:38:01 | 58.73 | 51.73 | 282 | 2.74 | 0.38 | 15.4 |
| 4/22/2015 | 4:38:03 | 59.06 | 52.06 | 299 | 2.88 | 0.37 | 16.3 |
| 4/22/2015 | 4:38:03 | 59.38 | 52.38 | 320 | 2.79 | 0.37 | 17.5 |
| 4/22/2015 | 4:38:06 | 59.71 | 52.71 | 115 | 2.81 | 0.37 | 6.3 |
| 4/22/2015 | 4:38:07 | 60.04 | 53.04 | 134 | 2.96 | 0.37 | 7.3 |
| 4/22/2015 | 4:38:08 | 60.37 | 53.37 | 231 | 2.69 | 0.36 | 12.6 |
| 4/22/2015 | 4:38:08 | 60.70 | 53.70 | 328 | 3.14 | 0.36 | 18.0 |
| 4/22/2015 | 4:38:09 | 61.02 | 54.02 | 328 | 2.90 | 0.36 | 18.0 |
| 4/22/2015 | 4:38:10 | 61.35 | 54.35 | 528 | 2.63 | 0.36 | 28.9 |
| 4/22/2015 | 4:38:10 | 61.68 | 54.68 | 551 | 3.28 | 0.36 | 30.2 |
| 4/22/2015 | 4:38:11 | 62.01 | 55.01 | 557 | 6.86 | 0.39 | 30.5 |
| 4/22/2015 | 4:38:12 | 62.07 | 55.07 | 522 | 4.01 | 0.31 | 28.5 |

## E215 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:15:18

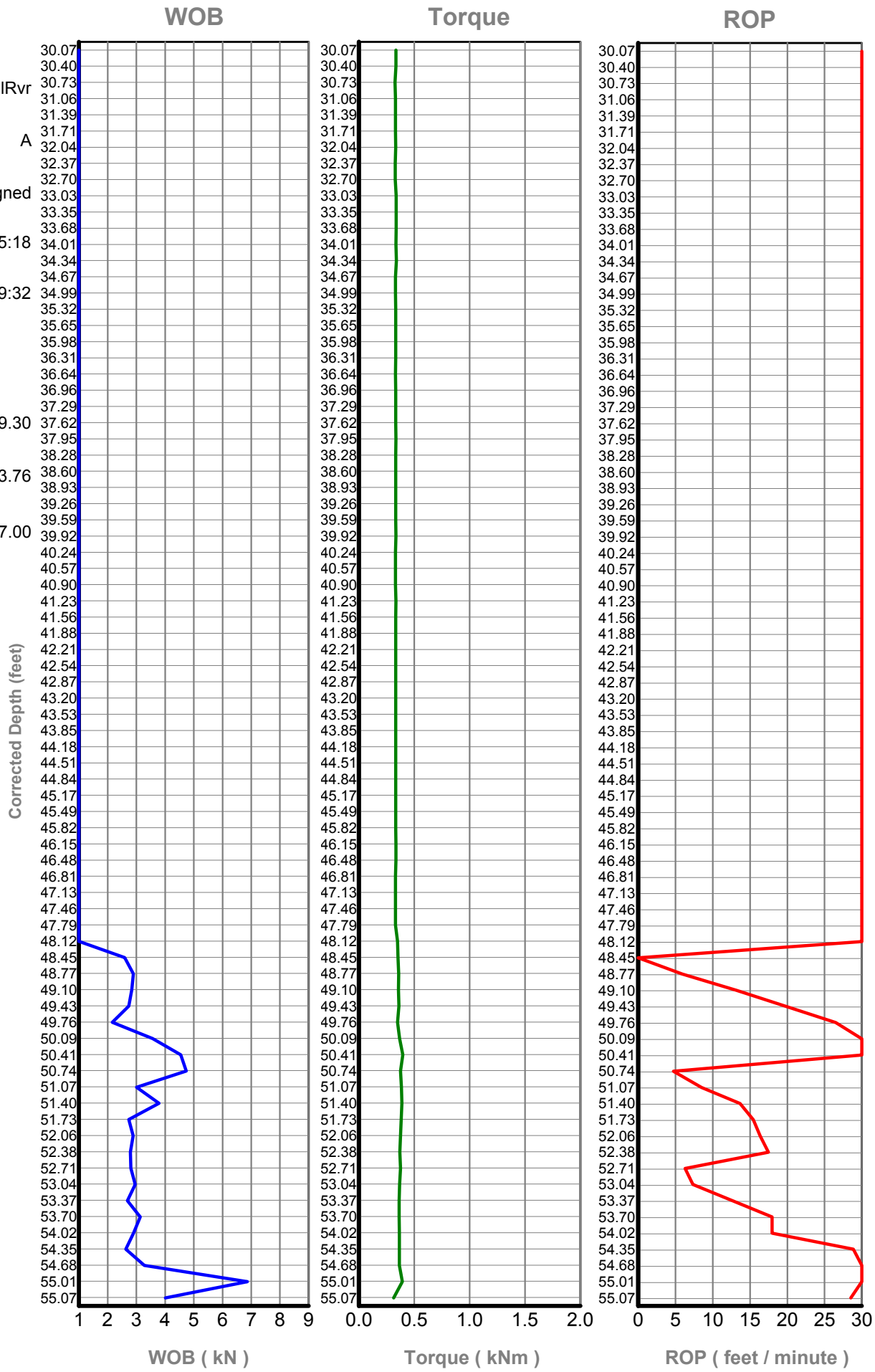
**End Date:**
4/22/2015 4:39:32

**Operator Note:**
'7 6.9 b Auto Complete'

**Northing:**
367,679.30

**Easting:**
252,983.76

**Tide (feet):**
7.00



## Hole: E216 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:44:26 | 37.07 | 30.27 | 1,016 | 0.32 | 0.33 | 55.6 |
| 4/22/2015 4:44:27 | 37.40 | 30.60 | 1,016 | 0.32 | 0.33 | 55.6 |
| 4/22/2015 4:44:27 | 37.73 | 30.93 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 4:44:27 | 38.06 | 31.26 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 4:44:28 | 38.39 | 31.59 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 4:44:28 | 38.71 | 31.91 | 1,041 | 0.32 | 0.32 | 57.0 |
| 4/22/2015 4:44:28 | 39.04 | 32.24 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/22/2015 4:44:29 | 39.37 | 32.57 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/22/2015 4:44:29 | 39.70 | 32.90 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/22/2015 4:44:29 | 40.03 | 33.23 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:30 | 40.35 | 33.55 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:30 | 40.68 | 33.88 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/22/2015 4:44:30 | 41.01 | 34.21 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/22/2015 4:44:31 | 41.34 | 34.54 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/22/2015 4:44:31 | 41.67 | 34.87 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:31 | 41.99 | 35.19 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:32 | 42.32 | 35.52 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:32 | 42.65 | 35.85 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:32 | 42.98 | 36.18 | 1,031 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:33 | 43.31 | 36.51 | 1,031 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:33 | 43.64 | 36.84 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/22/2015 4:44:33 | 43.96 | 37.16 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/22/2015 4:44:34 | 44.29 | 37.49 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/22/2015 4:44:34 | 44.62 | 37.82 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:34 | 44.95 | 38.15 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:35 | 45.28 | 38.48 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:35 | 45.60 | 38.80 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:35 | 45.93 | 39.13 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:36 | 46.26 | 39.46 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/22/2015 4:44:36 | 46.59 | 39.79 | 1,029 | 0.32 | 0.33 | 56.3 |
| 4/22/2015 4:44:37 | 46.92 | 40.12 | 1,023 | 0.32 | 0.32 | 55.9 |
| 4/22/2015 4:44:37 | 47.24 | 40.44 | 1,023 | 0.32 | 0.32 | 55.9 |
| 4/22/2015 4:44:37 | 47.57 | 40.77 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 4:44:38 | 47.90 | 41.10 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 4:44:38 | 48.23 | 41.43 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 4:44:38 | 48.56 | 41.76 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/22/2015 4:44:39 | 48.88 | 42.08 | 996 | 0.32 | 0.32 | 54.5 |
| 4/22/2015 4:44:39 | 49.21 | 42.41 | 996 | 0.32 | 0.32 | 54.5 |
| 4/22/2015 4:44:39 | 49.54 | 42.74 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/22/2015 4:44:40 | 49.87 | 43.07 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/22/2015 4:44:40 | 50.20 | 43.40 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/22/2015 4:44:40 | 50.53 | 43.73 | 1,026 | 0.32 | 0.33 | 56.1 |
| 4/22/2015 4:44:41 | 50.85 | 44.05 | 1,011 | 0.32 | 0.30 | 55.3 |
| 4/22/2015 4:44:41 | 51.18 | 44.38 | 1,011 | 0.32 | 0.30 | 55.3 |
| 4/22/2015 4:44:41 | 51.51 | 44.71 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/22/2015 4:44:42 | 51.84 | 45.04 | 1,050 | 0.32 | 0.33 | 57.4 |
| 4/22/2015 4:44:42 | 52.17 | 45.37 | 1,050 | 0.32 | 0.33 | 57.4 |
| 4/22/2015 4:44:42 | 52.49 | 45.69 | 1,043 | 0.32 | 0.33 | 57.1 |
| 4/22/2015 4:44:43 | 52.82 | 46.02 | 1,021 | 0.31 | 0.33 | 55.9 |
| 4/22/2015 4:44:43 | 53.15 | 46.35 | 1,021 | 0.31 | 0.33 | 55.9 |
| 4/22/2015 4:44:43 | 53.48 | 46.68 | 1,021 | 0.31 | 0.33 | 55.9 |
| 4/22/2015 4:45:01 | 53.81 | 47.01 | 0 | 2.99 | 0.36 | 0.0 |
| 4/22/2015 4:45:03 | 54.13 | 47.33 | 126 | 5.19 | 0.33 | 6.9 |
| 4/22/2015 4:45:12 | 54.46 | 47.66 | 18 | 6.60 | 0.41 | 1.0 |
| 4/22/2015 4:45:14 | 54.79 | 47.99 | 138 | 3.54 | 0.37 | 7.6 |
| 4/22/2015 4:45:17 | 55.12 | 48.32 | 64 | 3.99 | 0.37 | 3.5 |
| 4/22/2015 4:45:18 | 55.45 | 48.65 | 141 | 3.22 | 0.36 | 7.7 |
| 4/22/2015 4:45:19 | 55.77 | 48.97 | 219 | 3.17 | 0.37 | 12.0 |
| 4/22/2015 4:45:20 | 56.10 | 49.30 | 310 | 3.37 | 0.36 | 17.0 |
| 4/22/2015 4:45:27 | 56.43 | 49.63 | 8 | 5.97 | 0.40 | 0.4 |
| 4/22/2015 4:45:28 | 56.76 | 49.96 | 102 | 3.63 | 0.37 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:45:29 | 57.09 | 50.29 | 263 | 3.16 | 0.37 | 14.4 |
| 4/22/2015 | 4:45:30 | 57.41 | 50.61 | 263 | 3.31 | 0.37 | 14.4 |
| 4/22/2015 | 4:45:31 | 57.74 | 50.94 | 341 | 4.49 | 0.38 | 18.6 |
| 4/22/2015 | 4:45:32 | 58.07 | 51.27 | 373 | 3.96 | 0.39 | 20.4 |
| 4/22/2015 | 4:45:33 | 58.40 | 51.60 | 402 | 4.99 | 0.38 | 22.0 |
| 4/22/2015 | 4:45:34 | 58.73 | 51.93 | 376 | 3.10 | 0.37 | 20.6 |
| 4/22/2015 | 4:45:35 | 59.06 | 52.26 | 359 | 4.00 | 0.38 | 19.6 |
| 4/22/2015 | 4:45:36 | 59.38 | 52.58 | 356 | 2.74 | 0.37 | 19.4 |
| 4/22/2015 | 4:45:36 | 59.71 | 52.91 | 364 | 2.18 | 0.36 | 19.9 |
| 4/22/2015 | 4:45:37 | 60.04 | 53.24 | 405 | 2.33 | 0.35 | 22.2 |
| 4/22/2015 | 4:45:37 | 60.37 | 53.57 | 471 | 2.42 | 0.36 | 25.8 |
| 4/22/2015 | 4:45:38 | 60.70 | 53.90 | 555 | 2.83 | 0.38 | 30.3 |
| 4/22/2015 | 4:45:40 | 61.02 | 54.22 | 463 | 2.74 | 0.39 | 25.3 |
| 4/22/2015 | 4:45:41 | 61.35 | 54.55 | 266 | 2.74 | 0.38 | 14.5 |
| 4/22/2015 | 4:45:42 | 61.68 | 54.88 | 284 | 2.43 | 0.36 | 15.5 |
| 4/22/2015 | 4:45:42 | 61.86 | 55.06 | 284 | 2.43 | 0.36 | 15.5 |

## E216 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:42:13

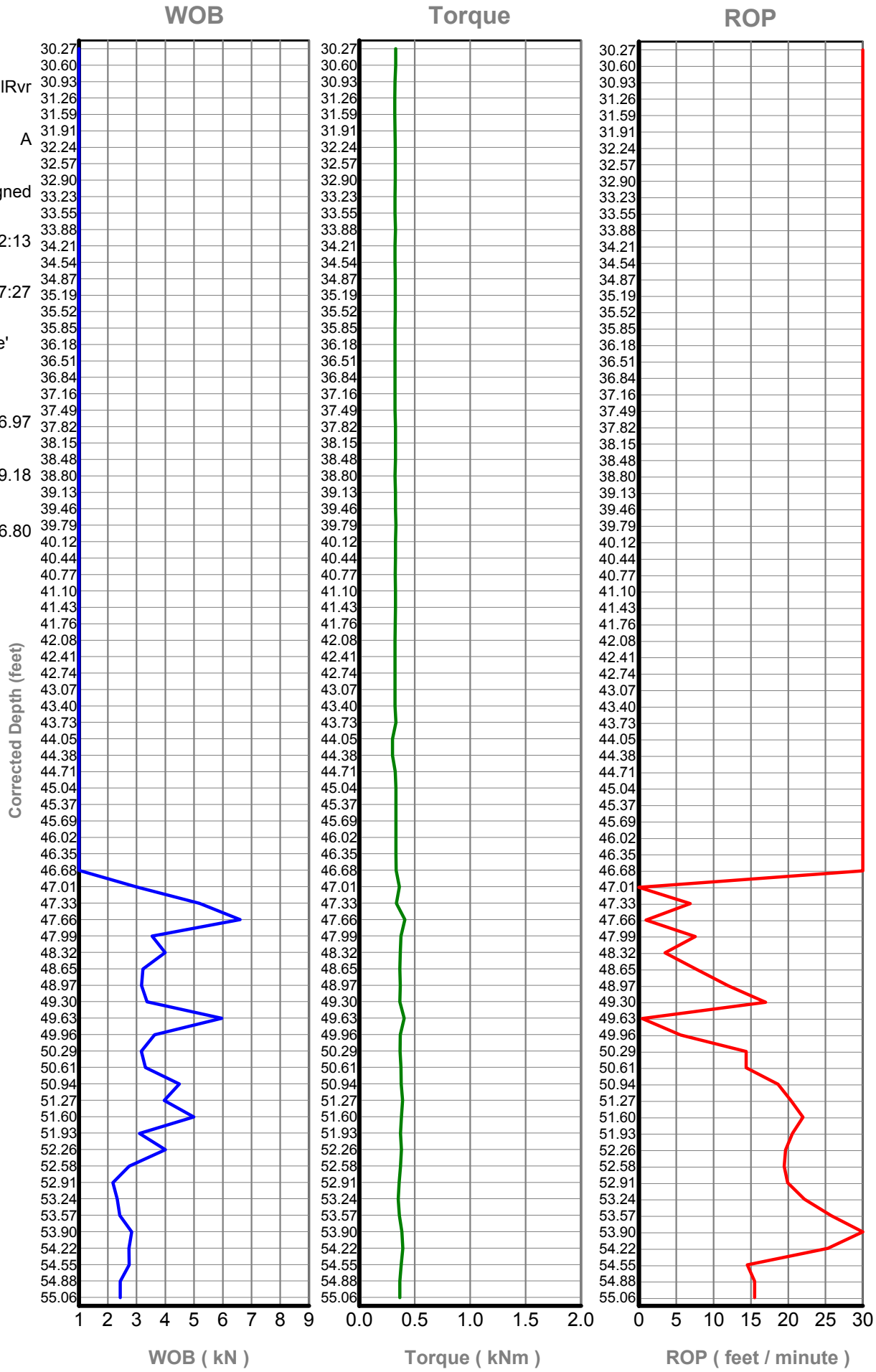
**End Date:**
4/22/2015 4:47:27

**Operator Note:**
'6.8 6.8 b Auto Complete'

**Northing:**
367,716.97

**Easting:**
253,029.18

**Tide (feet):**
6.80



## Hole: E217 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:37:11 | 37.07 | 30.27 | 1,395 | 3.18 | 0.15 | 76.3 |
| 4/22/2015 4:37:12 | 37.40 | 30.60 | 1,410 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 4:37:12 | 37.73 | 30.93 | 1,410 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 4:37:12 | 38.06 | 31.26 | 1,410 | 3.18 | 0.14 | 77.1 |
| 4/22/2015 4:37:12 | 38.39 | 31.59 | 1,410 | 3.18 | 0.14 | 77.1 |
| 4/22/2015 4:37:13 | 38.71 | 31.91 | 1,406 | 3.22 | 0.15 | 76.9 |
| 4/22/2015 4:37:13 | 39.04 | 32.24 | 1,406 | 3.22 | 0.15 | 76.9 |
| 4/22/2015 4:37:13 | 39.37 | 32.57 | 1,409 | 3.18 | 0.15 | 77.0 |
| 4/22/2015 4:37:13 | 39.70 | 32.90 | 1,409 | 3.18 | 0.15 | 77.0 |
| 4/22/2015 4:37:14 | 40.03 | 33.23 | 1,409 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 4:37:14 | 40.35 | 33.55 | 1,409 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 4:37:14 | 40.68 | 33.88 | 1,435 | 3.19 | 0.14 | 78.5 |
| 4/22/2015 4:37:15 | 41.01 | 34.21 | 1,435 | 3.19 | 0.14 | 78.5 |
| 4/22/2015 4:37:15 | 41.34 | 34.54 | 1,411 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 4:37:15 | 41.67 | 34.87 | 1,411 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 4:37:15 | 41.99 | 35.19 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 4:37:16 | 42.32 | 35.52 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 4:37:16 | 42.65 | 35.85 | 1,419 | 3.18 | 0.15 | 77.6 |
| 4/22/2015 4:37:16 | 42.98 | 36.18 | 1,419 | 3.18 | 0.15 | 77.6 |
| 4/22/2015 4:37:16 | 43.31 | 36.51 | 1,366 | 3.20 | 0.15 | 74.7 |
| 4/22/2015 4:37:17 | 43.64 | 36.84 | 1,366 | 3.20 | 0.15 | 74.7 |
| 4/22/2015 4:37:17 | 43.96 | 37.16 | 1,366 | 3.20 | 0.14 | 74.7 |
| 4/22/2015 4:37:17 | 44.29 | 37.49 | 1,366 | 3.20 | 0.14 | 74.7 |
| 4/22/2015 4:37:17 | 44.62 | 37.82 | 1,420 | 3.24 | 0.14 | 77.7 |
| 4/22/2015 4:37:18 | 44.95 | 38.15 | 1,420 | 3.24 | 0.14 | 77.7 |
| 4/22/2015 4:37:18 | 45.28 | 38.48 | 1,393 | 3.20 | 0.15 | 76.2 |
| 4/22/2015 4:37:18 | 45.60 | 38.80 | 1,393 | 3.20 | 0.15 | 76.2 |
| 4/22/2015 4:37:18 | 45.93 | 39.13 | 1,393 | 3.20 | 0.15 | 76.2 |
| 4/22/2015 4:37:18 | 46.26 | 39.46 | 1,418 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 4:37:19 | 46.59 | 39.79 | 1,418 | 3.21 | 0.15 | 77.5 |
| 4/22/2015 4:37:19 | 46.92 | 40.12 | 1,407 | 3.19 | 0.14 | 76.9 |
| 4/22/2015 4:37:19 | 47.24 | 40.44 | 1,407 | 3.19 | 0.14 | 76.9 |
| 4/22/2015 4:37:19 | 47.57 | 40.77 | 1,436 | 3.22 | 0.15 | 78.5 |
| 4/22/2015 4:37:20 | 47.90 | 41.10 | 1,436 | 3.22 | 0.15 | 78.5 |
| 4/22/2015 4:37:20 | 48.23 | 41.43 | 1,417 | 3.20 | 0.15 | 77.5 |
| 4/22/2015 4:37:20 | 48.56 | 41.76 | 1,417 | 3.20 | 0.15 | 77.5 |
| 4/22/2015 4:37:21 | 48.88 | 42.08 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 4:37:21 | 49.21 | 42.41 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 4:37:21 | 49.54 | 42.74 | 1,425 | 3.19 | 0.15 | 77.9 |
| 4/22/2015 4:37:21 | 49.87 | 43.07 | 1,425 | 3.19 | 0.15 | 77.9 |
| 4/22/2015 4:37:22 | 50.20 | 43.40 | 1,416 | 3.21 | 0.14 | 77.4 |
| 4/22/2015 4:37:22 | 50.53 | 43.73 | 1,416 | 3.21 | 0.14 | 77.4 |
| 4/22/2015 4:37:22 | 50.85 | 44.05 | 1,416 | 3.18 | 0.15 | 77.4 |
| 4/22/2015 4:37:22 | 51.18 | 44.38 | 1,416 | 3.18 | 0.15 | 77.4 |
| 4/22/2015 4:37:23 | 51.51 | 44.71 | 1,381 | 3.19 | 0.15 | 75.5 |
| 4/22/2015 4:37:23 | 51.84 | 45.04 | 1,381 | 3.19 | 0.15 | 75.5 |
| 4/22/2015 4:37:23 | 52.17 | 45.37 | 1,381 | 3.20 | 0.15 | 75.5 |
| 4/22/2015 4:37:23 | 52.49 | 45.69 | 1,381 | 3.20 | 0.15 | 75.5 |
| 4/22/2015 4:37:24 | 52.82 | 46.02 | 1,404 | 3.22 | 0.14 | 76.8 |
| 4/22/2015 4:37:24 | 53.15 | 46.35 | 1,404 | 3.22 | 0.14 | 76.8 |
| 4/22/2015 4:37:24 | 53.48 | 46.68 | 1,373 | 3.22 | 0.14 | 75.1 |
| 4/22/2015 4:37:25 | 53.81 | 47.01 | 1,373 | 3.22 | 0.14 | 75.1 |
| 4/22/2015 4:38:24 | 54.13 | 47.33 | 19 | 2.08 | 0.89 | 1.0 |
| 4/22/2015 4:38:52 | 54.46 | 47.66 | 0 | 1.81 | 1.02 | 0.0 |
| 4/22/2015 4:38:56 | 54.79 | 47.99 | 91 | 1.87 | 1.05 | 5.0 |
| 4/22/2015 4:39:14 | 55.12 | 48.32 | 85 | 1.81 | 1.16 | 4.6 |
| 4/22/2015 4:39:16 | 55.45 | 48.65 | 121 | 1.81 | 1.07 | 6.6 |
| 4/22/2015 4:39:28 | 55.77 | 48.97 | 48 | 1.74 | 1.21 | 2.6 |
| 4/22/2015 4:39:31 | 56.10 | 49.30 | 142 | 1.73 | 1.07 | 7.8 |
| 4/22/2015 4:39:34 | 56.43 | 49.63 | 124 | 1.80 | 1.10 | 6.8 |
| 4/22/2015 4:39:37 | 56.76 | 49.96 | 108 | 1.78 | 1.08 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:39:43 | 57.09 | 50.29 | 64 | 1.87 | 1.13 | 3.5 |
| 4/22/2015 | 4:39:48 | 57.41 | 50.61 | 69 | 1.83 | 1.11 | 3.8 |
| 4/22/2015 | 4:39:54 | 57.74 | 50.94 | 49 | 1.91 | 1.08 | 2.7 |
| 4/22/2015 | 4:40:02 | 58.07 | 51.27 | 49 | 1.87 | 1.19 | 2.7 |
| 4/22/2015 | 4:40:03 | 58.17 | 51.37 | 64 | 1.85 | 1.15 | 3.5 |

## E217 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:35:41

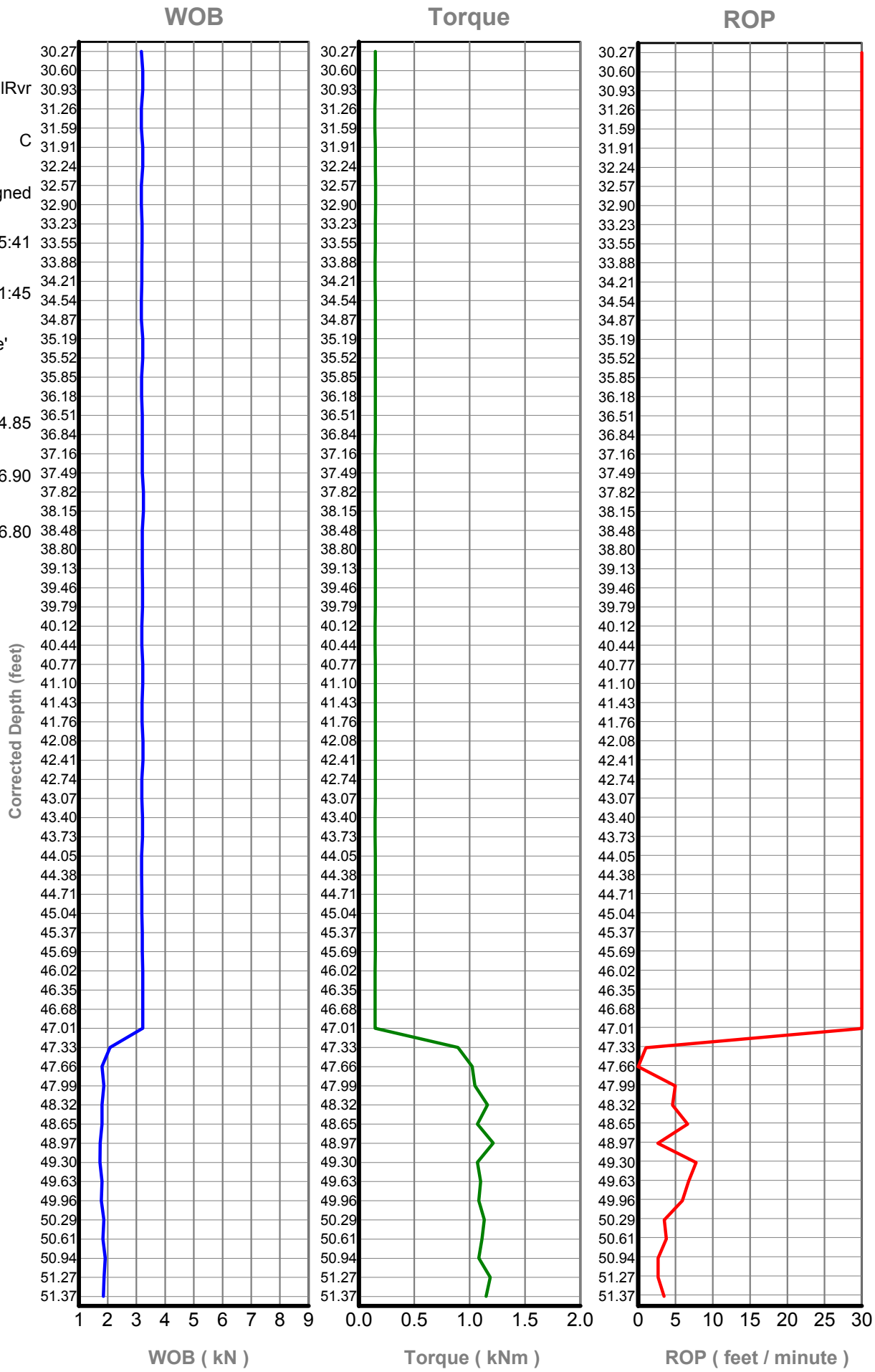
**End Date:**
4/22/2015 4:41:45

**Operator Note:**
'6.8 6.9 c Auto Complete'

**Northing:**
367,764.85

**Easting:**
253,086.90

**Tide (feet):**
6.80



## Hole: E218 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 17:04:05 | 35.43 | 30.23 | 975 | 0.41 | 0.33 | 53.3 |
| 4/21/2015 17:04:06 | 35.76 | 30.56 | 975 | 0.41 | 0.33 | 53.3 |
| 4/21/2015 17:04:06 | 36.09 | 30.89 | 963 | 0.39 | 0.33 | 52.7 |
| 4/21/2015 17:04:06 | 36.42 | 31.22 | 963 | 0.39 | 0.33 | 52.7 |
| 4/21/2015 17:04:07 | 36.75 | 31.55 | 963 | 0.39 | 0.33 | 52.7 |
| 4/21/2015 17:04:07 | 37.07 | 31.87 | 987 | 0.39 | 0.34 | 54.0 |
| 4/21/2015 17:04:07 | 37.40 | 32.20 | 988 | 0.39 | 0.34 | 54.0 |
| 4/21/2015 17:04:08 | 37.73 | 32.53 | 988 | 0.39 | 0.34 | 54.0 |
| 4/21/2015 17:04:08 | 38.06 | 32.86 | 978 | 0.39 | 0.33 | 53.5 |
| 4/21/2015 17:04:08 | 38.39 | 33.19 | 978 | 0.39 | 0.34 | 53.5 |
| 4/21/2015 17:04:09 | 38.71 | 33.51 | 978 | 0.39 | 0.34 | 53.5 |
| 4/21/2015 17:04:09 | 39.04 | 33.84 | 1,001 | 0.37 | 0.34 | 54.7 |
| 4/21/2015 17:04:09 | 39.37 | 34.17 | 1,001 | 0.39 | 0.33 | 54.7 |
| 4/21/2015 17:04:10 | 39.70 | 34.50 | 991 | 0.38 | 0.33 | 54.2 |
| 4/21/2015 17:04:11 | 40.03 | 34.83 | 991 | 0.38 | 0.33 | 54.2 |
| 4/21/2015 17:04:11 | 40.35 | 35.15 | 971 | 0.28 | 0.32 | 53.1 |
| 4/21/2015 17:04:11 | 40.68 | 35.48 | 971 | 0.29 | 0.32 | 53.1 |
| 4/21/2015 17:04:12 | 41.01 | 35.81 | 971 | 0.29 | 0.32 | 53.1 |
| 4/21/2015 17:04:12 | 41.34 | 36.14 | 994 | 0.29 | 0.33 | 54.3 |
| 4/21/2015 17:04:12 | 41.67 | 36.47 | 969 | 0.29 | 0.32 | 53.0 |
| 4/21/2015 17:04:13 | 41.99 | 36.79 | 969 | 0.29 | 0.32 | 53.0 |
| 4/21/2015 17:04:13 | 42.32 | 37.12 | 969 | 0.28 | 0.31 | 53.0 |
| 4/21/2015 17:04:13 | 42.65 | 37.45 | 980 | 0.28 | 0.31 | 53.6 |
| 4/21/2015 17:04:14 | 42.98 | 37.78 | 980 | 0.28 | 0.31 | 53.6 |
| 4/21/2015 17:04:14 | 43.31 | 38.11 | 980 | 0.28 | 0.31 | 53.6 |
| 4/21/2015 17:04:14 | 43.64 | 38.44 | 996 | 0.28 | 0.32 | 54.4 |
| 4/21/2015 17:04:15 | 43.96 | 38.76 | 996 | 0.28 | 0.32 | 54.4 |
| 4/21/2015 17:04:15 | 44.29 | 39.09 | 1,006 | 0.28 | 0.32 | 55.0 |
| 4/21/2015 17:04:15 | 44.62 | 39.42 | 1,007 | 0.28 | 0.32 | 55.1 |
| 4/21/2015 17:04:16 | 44.95 | 39.75 | 1,007 | 0.28 | 0.32 | 55.1 |
| 4/21/2015 17:04:16 | 45.28 | 40.08 | 1,036 | 0.28 | 0.32 | 56.6 |
| 4/21/2015 17:04:16 | 45.60 | 40.40 | 1,030 | 0.28 | 0.32 | 56.3 |
| 4/21/2015 17:04:17 | 45.93 | 40.73 | 1,030 | 0.28 | 0.32 | 56.3 |
| 4/21/2015 17:04:17 | 46.26 | 41.06 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/21/2015 17:04:17 | 46.59 | 41.39 | 1,028 | 0.28 | 0.32 | 56.2 |
| 4/21/2015 17:04:18 | 46.92 | 41.72 | 1,028 | 0.28 | 0.32 | 56.2 |
| 4/21/2015 17:04:18 | 47.24 | 42.04 | 1,031 | 0.28 | 0.32 | 56.4 |
| 4/21/2015 17:04:18 | 47.57 | 42.37 | 1,031 | 0.28 | 0.32 | 56.4 |
| 4/21/2015 17:04:19 | 47.90 | 42.70 | 1,031 | 0.28 | 0.32 | 56.4 |
| 4/21/2015 17:04:19 | 48.23 | 43.03 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/21/2015 17:04:20 | 48.56 | 43.36 | 1,007 | 0.28 | 0.32 | 55.1 |
| 4/21/2015 17:04:20 | 48.88 | 43.68 | 1,007 | 0.28 | 0.32 | 55.1 |
| 4/21/2015 17:04:20 | 49.21 | 44.01 | 995 | 0.28 | 0.32 | 54.4 |
| 4/21/2015 17:04:20 | 49.54 | 44.34 | 995 | 0.28 | 0.32 | 54.4 |
| 4/21/2015 17:04:21 | 49.87 | 44.67 | 995 | 0.28 | 0.32 | 54.4 |
| 4/21/2015 17:04:21 | 50.20 | 45.00 | 1,025 | 0.28 | 0.32 | 56.0 |
| 4/21/2015 17:04:22 | 50.53 | 45.33 | 980 | 0.29 | 0.31 | 53.6 |
| 4/21/2015 17:04:22 | 50.85 | 45.65 | 980 | 0.29 | 0.31 | 53.6 |
| 4/21/2015 17:04:22 | 51.18 | 45.98 | 982 | 0.29 | 0.32 | 53.7 |
| 4/21/2015 17:04:23 | 51.51 | 46.31 | 982 | 0.28 | 0.34 | 53.7 |
| 4/21/2015 17:05:03 | 51.84 | 46.64 | 9 | 3.56 | 0.39 | 0.5 |
| 4/21/2015 17:05:09 | 52.17 | 46.97 | 49 | 3.62 | 0.39 | 2.7 |
| 4/21/2015 17:05:15 | 52.49 | 47.29 | 70 | 3.77 | 0.32 | 3.8 |
| 4/21/2015 17:05:23 | 52.82 | 47.62 | 43 | 3.30 | 0.39 | 2.3 |
| 4/21/2015 17:05:30 | 53.15 | 47.95 | 47 | 3.06 | 0.40 | 2.6 |
| 4/21/2015 17:05:37 | 53.48 | 48.28 | 52 | 3.42 | 0.38 | 2.8 |
| 4/21/2015 17:05:43 | 53.81 | 48.61 | 51 | 3.05 | 0.39 | 2.8 |
| 4/21/2015 17:05:43 | 53.85 | 48.65 | 55 | 3.20 | 0.40 | 3.0 |

## E218 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 17:00:26

**End Date:**
4/21/2015 17:08:34

**Operator Note:**
'5.2 5.4 b Hit rock @ 52.5'

**Northing:**
367,819.19

**Easting:**
253,148.10

**Tide (feet):**
5.20



## Hole: E219 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 17:13:55 | 35.11 | 30.11 | 1,042 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 17:13:56 | 35.43 | 30.43 | 1,042 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 17:13:56 | 35.76 | 30.76 | 1,040 | 0.29 | 0.31 | 56.9 |
| 4/21/2015 17:13:56 | 36.09 | 31.09 | 1,030 | 0.29 | 0.31 | 56.3 |
| 4/21/2015 17:13:57 | 36.42 | 31.42 | 1,030 | 0.29 | 0.31 | 56.3 |
| 4/21/2015 17:13:57 | 36.75 | 31.75 | 1,030 | 0.29 | 0.31 | 56.3 |
| 4/21/2015 17:13:57 | 37.07 | 32.07 | 1,031 | 0.29 | 0.31 | 56.4 |
| 4/21/2015 17:13:58 | 37.40 | 32.40 | 1,031 | 0.29 | 0.31 | 56.4 |
| 4/21/2015 17:13:58 | 37.73 | 32.73 | 1,031 | 0.29 | 0.32 | 56.4 |
| 4/21/2015 17:13:58 | 38.06 | 33.06 | 1,052 | 0.29 | 0.32 | 57.6 |
| 4/21/2015 17:13:59 | 38.39 | 33.39 | 1,052 | 0.29 | 0.32 | 57.6 |
| 4/21/2015 17:13:59 | 38.71 | 33.71 | 1,028 | 0.29 | 0.32 | 56.2 |
| 4/21/2015 17:13:59 | 39.04 | 34.04 | 1,028 | 0.29 | 0.32 | 56.2 |
| 4/21/2015 17:14:00 | 39.37 | 34.37 | 1,028 | 0.29 | 0.32 | 56.2 |
| 4/21/2015 17:14:00 | 39.70 | 34.70 | 1,003 | 0.28 | 0.32 | 54.8 |
| 4/21/2015 17:14:00 | 40.03 | 35.03 | 1,003 | 0.29 | 0.32 | 54.8 |
| 4/21/2015 17:14:01 | 40.35 | 35.35 | 1,003 | 0.29 | 0.32 | 54.8 |
| 4/21/2015 17:14:01 | 40.68 | 35.68 | 1,040 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 17:14:01 | 41.01 | 36.01 | 1,014 | 0.26 | 0.31 | 55.4 |
| 4/21/2015 17:14:02 | 41.34 | 36.34 | 1,014 | 0.26 | 0.31 | 55.4 |
| 4/21/2015 17:14:02 | 41.67 | 36.67 | 1,010 | 0.29 | 0.32 | 55.2 |
| 4/21/2015 17:14:03 | 41.99 | 36.99 | 1,010 | 0.29 | 0.32 | 55.2 |
| 4/21/2015 17:14:03 | 42.32 | 37.32 | 1,010 | 0.29 | 0.32 | 55.2 |
| 4/21/2015 17:14:03 | 42.65 | 37.65 | 1,022 | 0.29 | 0.32 | 55.9 |
| 4/21/2015 17:14:03 | 42.98 | 37.98 | 1,022 | 0.29 | 0.31 | 55.9 |
| 4/21/2015 17:14:04 | 43.31 | 38.31 | 1,022 | 0.29 | 0.31 | 55.9 |
| 4/21/2015 17:14:04 | 43.64 | 38.64 | 1,024 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 17:14:05 | 43.96 | 38.96 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 17:14:05 | 44.29 | 39.29 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 17:14:05 | 44.62 | 39.62 | 1,006 | 0.29 | 0.32 | 55.0 |
| 4/21/2015 17:14:06 | 44.95 | 39.95 | 1,032 | 0.29 | 0.32 | 56.5 |
| 4/21/2015 17:14:06 | 45.28 | 40.28 | 1,032 | 0.29 | 0.32 | 56.5 |
| 4/21/2015 17:14:06 | 45.60 | 40.60 | 1,032 | 0.29 | 0.32 | 56.5 |
| 4/21/2015 17:14:07 | 45.93 | 40.93 | 1,021 | 0.29 | 0.31 | 55.8 |
| 4/21/2015 17:14:07 | 46.26 | 41.26 | 1,021 | 0.29 | 0.31 | 55.8 |
| 4/21/2015 17:14:07 | 46.59 | 41.59 | 1,021 | 0.29 | 0.32 | 55.8 |
| 4/21/2015 17:14:08 | 46.92 | 41.92 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/21/2015 17:14:08 | 47.24 | 42.24 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/21/2015 17:14:08 | 47.57 | 42.57 | 1,017 | 0.29 | 0.31 | 55.6 |
| 4/21/2015 17:14:09 | 47.90 | 42.90 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/21/2015 17:14:09 | 48.23 | 43.23 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/21/2015 17:14:09 | 48.56 | 43.56 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 17:14:10 | 48.88 | 43.88 | 1,039 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 17:14:10 | 49.21 | 44.21 | 1,039 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 17:14:10 | 49.54 | 44.54 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/21/2015 17:14:11 | 49.87 | 44.87 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 17:14:11 | 50.20 | 45.20 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 17:14:11 | 50.53 | 45.53 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 17:14:12 | 50.85 | 45.85 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/21/2015 17:14:12 | 51.18 | 46.18 | 1,021 | 0.28 | 0.32 | 55.8 |
| 4/21/2015 17:14:12 | 51.51 | 46.51 | 1,015 | 0.29 | 0.32 | 55.5 |
| 4/21/2015 17:14:13 | 51.84 | 46.84 | 1,009 | 0.26 | 0.37 | 55.2 |
| 4/21/2015 17:14:35 | 52.17 | 47.17 | 0 | 2.61 | 0.36 | 0.0 |
| 4/21/2015 17:14:38 | 52.49 | 47.49 | 103 | 3.60 | 0.37 | 5.6 |
| 4/21/2015 17:14:44 | 52.82 | 47.82 | 46 | 2.85 | 0.39 | 2.5 |
| 4/21/2015 17:14:51 | 53.15 | 48.15 | 57 | 2.76 | 0.40 | 3.1 |
| 4/21/2015 17:14:58 | 53.48 | 48.48 | 55 | 3.26 | 0.40 | 3.0 |
| 4/21/2015 17:15:03 | 53.81 | 48.81 | 49 | 3.45 | 0.39 | 2.7 |
| 4/21/2015 17:15:09 | 54.13 | 49.13 | 41 | 3.20 | 0.40 | 2.2 |
| 4/21/2015 17:15:16 | 54.46 | 49.46 | 58 | 2.53 | 0.39 | 3.1 |
| 4/21/2015 17:15:25 | 54.79 | 49.79 | 46 | 2.88 | 0.40 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 17:15:32 | 55.02 | 50.02 | 40 | 3.41 | 0.39 | 2.2 | |

## E219 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 17:10:08

**End Date:**
4/21/2015 17:17:37

**Operator Note:**
'5 5.2 b Rock @ 54"

**Northing:**
367,866.63

**Easting:**
253,206.05

**Tide (feet):**
5.00



## Hole: E22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 23:53:05 | 35.11 | 30.31 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:06 | 35.43 | 30.63 | 902 | 1.93 | 0.22 | 49.3 |
| 4/19/2015 23:53:07 | 35.76 | 30.96 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:07 | 36.09 | 31.29 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:07 | 36.42 | 31.62 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:08 | 36.75 | 31.95 | 894 | 1.93 | 0.22 | 48.9 |
| 4/19/2015 23:53:08 | 37.07 | 32.27 | 908 | 1.93 | 0.22 | 49.7 |
| 4/19/2015 23:53:09 | 37.40 | 32.60 | 908 | 1.93 | 0.22 | 49.7 |
| 4/19/2015 23:53:09 | 37.73 | 32.93 | 903 | 1.93 | 0.22 | 49.4 |
| 4/19/2015 23:53:09 | 38.06 | 33.26 | 900 | 1.93 | 0.22 | 49.2 |
| 4/19/2015 23:53:10 | 38.39 | 33.59 | 894 | 1.93 | 0.22 | 48.9 |
| 4/19/2015 23:53:10 | 38.71 | 33.91 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:11 | 39.04 | 34.24 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:11 | 39.37 | 34.57 | 899 | 1.93 | 0.22 | 49.1 |
| 4/19/2015 23:53:11 | 39.70 | 34.90 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:12 | 40.03 | 35.23 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:12 | 40.35 | 35.55 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:12 | 40.68 | 35.88 | 904 | 1.93 | 0.22 | 49.4 |
| 4/19/2015 23:53:13 | 41.01 | 36.21 | 907 | 1.93 | 0.22 | 49.6 |
| 4/19/2015 23:53:13 | 41.34 | 36.54 | 902 | 1.93 | 0.22 | 49.3 |
| 4/19/2015 23:53:14 | 41.67 | 36.87 | 902 | 1.93 | 0.22 | 49.3 |
| 4/19/2015 23:53:14 | 41.99 | 37.19 | 899 | 1.93 | 0.22 | 49.1 |
| 4/19/2015 23:53:14 | 42.32 | 37.52 | 895 | 1.93 | 0.22 | 49.0 |
| 4/19/2015 23:53:15 | 42.65 | 37.85 | 893 | 1.93 | 0.22 | 48.8 |
| 4/19/2015 23:53:15 | 42.98 | 38.18 | 887 | 1.93 | 0.22 | 48.5 |
| 4/19/2015 23:53:16 | 43.31 | 38.51 | 887 | 1.93 | 0.22 | 48.5 |
| 4/19/2015 23:53:16 | 43.64 | 38.84 | 884 | 1.93 | 0.22 | 48.3 |
| 4/19/2015 23:53:40 | 43.96 | 39.16 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 23:53:44 | 44.29 | 39.49 | 32 | 1.93 | 0.22 | 1.7 |
| 4/19/2015 23:54:03 | 44.62 | 39.82 | 43 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:54:04 | 44.95 | 40.15 | 120 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 23:54:19 | 45.28 | 40.48 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 23:54:27 | 45.60 | 40.80 | 15 | 1.93 | 0.22 | 0.8 |
| 4/19/2015 23:54:38 | 45.93 | 41.13 | 9 | 1.93 | 0.22 | 0.5 |
| 4/19/2015 23:54:42 | 46.26 | 41.46 | 112 | 1.93 | 0.22 | 6.1 |
| 4/19/2015 23:54:44 | 46.59 | 41.79 | 123 | 1.93 | 0.22 | 6.7 |
| 4/19/2015 23:54:49 | 46.92 | 42.12 | 46 | 1.93 | 0.22 | 2.5 |
| 4/19/2015 23:54:58 | 47.24 | 42.44 | 50 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 23:55:03 | 47.57 | 42.77 | 67 | 1.93 | 0.22 | 3.7 |
| 4/19/2015 23:55:07 | 47.90 | 43.10 | 113 | 1.93 | 0.22 | 6.2 |
| 4/19/2015 23:55:09 | 48.23 | 43.43 | 140 | 1.93 | 0.22 | 7.6 |
| 4/19/2015 23:55:29 | 48.56 | 43.76 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 23:55:35 | 48.88 | 44.08 | 47 | 1.93 | 0.22 | 2.5 |
| 4/19/2015 23:55:44 | 49.21 | 44.41 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 23:55:53 | 49.54 | 44.74 | 44 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:56:02 | 49.87 | 45.07 | 32 | 1.93 | 0.22 | 1.7 |
| 4/19/2015 23:56:11 | 50.20 | 45.40 | 45 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:56:21 | 50.53 | 45.73 | 35 | 1.93 | 0.22 | 1.9 |
| 4/19/2015 23:56:30 | 50.85 | 46.05 | 52 | 1.93 | 0.22 | 2.9 |
| 4/19/2015 23:56:38 | 51.18 | 46.38 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 23:57:00 | 51.51 | 46.71 | 35 | 1.93 | 0.22 | 1.9 |
| 4/19/2015 23:57:09 | 51.84 | 47.04 | 36 | 1.93 | 0.22 | 2.0 |
| 4/19/2015 23:57:19 | 52.17 | 47.37 | 41 | 1.93 | 0.22 | 2.2 |
| 4/19/2015 23:57:29 | 52.49 | 47.69 | 37 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 23:57:37 | 52.82 | 48.02 | 43 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:57:46 | 53.15 | 48.35 | 41 | 1.93 | 0.22 | 2.2 |
| 4/19/2015 23:57:54 | 53.48 | 48.68 | 41 | 1.93 | 0.22 | 2.2 |
| 4/19/2015 23:58:03 | 53.81 | 49.01 | 37 | 1.93 | 0.22 | 2.0 |
| 4/19/2015 23:58:20 | 54.13 | 49.33 | 35 | 1.93 | 0.22 | 1.9 |
| 4/19/2015 23:58:30 | 54.46 | 49.66 | 35 | 1.93 | 0.22 | 1.9 |
| 4/19/2015 23:58:34 | 54.79 | 49.99 | 104 | 1.93 | 0.22 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 23:58:44 | 55.12 | 50.32 | 37 | 1.93 | 0.22 | 2.0 |
| 4/19/2015 | 23:58:53 | 55.45 | 50.65 | 42 | 1.93 | 0.22 | 2.3 |
| 4/19/2015 | 23:59:02 | 55.77 | 50.97 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 | 23:59:06 | 55.93 | 51.13 | 38 | 1.93 | 0.22 | 2.1 |

## E22 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/19/2015 23:38:50

**End Date:**
4/20/2015 0:02:05

**Operator Note:**
'4.8 '4.9 '4.8 '5.5 5.9 b Auto Complete'

**Northing:**
369,170.15

**Easting:**
253,520.26

**Tide (feet):**
4.80



## Hole: E220 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 17:11:57 | 35.11 | 30.01 | 291 | 1.23 | 0.28 | 15.9 |
| 4/21/2015 17:11:59 | 35.43 | 30.33 | 288 | 1.21 | 0.28 | 15.8 |
| 4/21/2015 17:12:00 | 35.76 | 30.66 | 290 | 1.24 | 0.28 | 15.8 |
| 4/21/2015 17:12:01 | 36.09 | 30.99 | 289 | 1.24 | 0.28 | 15.8 |
| 4/21/2015 17:12:03 | 36.42 | 31.32 | 284 | 1.23 | 0.28 | 15.5 |
| 4/21/2015 17:12:04 | 36.75 | 31.65 | 290 | 1.24 | 0.28 | 15.9 |
| 4/21/2015 17:12:05 | 37.07 | 31.97 | 284 | 1.22 | 0.28 | 15.5 |
| 4/21/2015 17:12:06 | 37.40 | 32.30 | 286 | 1.24 | 0.27 | 15.6 |
| 4/21/2015 17:12:07 | 37.73 | 32.63 | 293 | 1.26 | 0.28 | 16.0 |
| 4/21/2015 17:12:08 | 38.06 | 32.96 | 291 | 1.26 | 0.28 | 15.9 |
| 4/21/2015 17:12:10 | 38.39 | 33.29 | 290 | 1.24 | 0.28 | 15.9 |
| 4/21/2015 17:12:11 | 38.71 | 33.61 | 279 | 1.21 | 0.28 | 15.2 |
| 4/21/2015 17:12:13 | 39.04 | 33.94 | 283 | 1.24 | 0.28 | 15.5 |
| 4/21/2015 17:12:14 | 39.37 | 34.27 | 295 | 1.26 | 0.28 | 16.1 |
| 4/21/2015 17:12:15 | 39.70 | 34.60 | 289 | 1.23 | 0.27 | 15.8 |
| 4/21/2015 17:12:16 | 40.03 | 34.93 | 289 | 1.24 | 0.27 | 15.8 |
| 4/21/2015 17:12:17 | 40.35 | 35.25 | 284 | 1.27 | 0.27 | 15.6 |
| 4/21/2015 17:12:19 | 40.68 | 35.58 | 283 | 1.25 | 0.27 | 15.5 |
| 4/21/2015 17:12:20 | 41.01 | 35.91 | 283 | 1.25 | 0.28 | 15.5 |
| 4/21/2015 17:12:22 | 41.34 | 36.24 | 273 | 1.24 | 0.28 | 14.9 |
| 4/21/2015 17:12:23 | 41.67 | 36.57 | 274 | 1.34 | 0.28 | 15.0 |
| 4/21/2015 17:12:24 | 41.99 | 36.89 | 262 | 1.26 | 0.28 | 14.3 |
| 4/21/2015 17:12:26 | 42.32 | 37.22 | 256 | 1.30 | 0.28 | 14.0 |
| 4/21/2015 17:12:27 | 42.65 | 37.55 | 234 | 1.37 | 0.27 | 12.8 |
| 4/21/2015 17:12:29 | 42.98 | 37.88 | 225 | 1.36 | 0.27 | 12.3 |
| 4/21/2015 17:12:31 | 43.31 | 38.21 | 196 | 1.45 | 0.28 | 10.7 |
| 4/21/2015 17:12:33 | 43.64 | 38.54 | 178 | 1.40 | 0.27 | 9.7 |
| 4/21/2015 17:12:34 | 43.96 | 38.86 | 204 | 1.40 | 0.28 | 11.2 |
| 4/21/2015 17:12:36 | 44.29 | 39.19 | 184 | 1.43 | 0.28 | 10.1 |
| 4/21/2015 17:12:38 | 44.62 | 39.52 | 187 | 1.24 | 0.27 | 10.2 |
| 4/21/2015 17:12:40 | 44.95 | 39.85 | 219 | 1.32 | 0.28 | 12.0 |
| 4/21/2015 17:12:41 | 45.28 | 40.18 | 220 | 1.34 | 0.28 | 12.0 |
| 4/21/2015 17:12:43 | 45.60 | 40.50 | 220 | 1.41 | 0.28 | 12.0 |
| 4/21/2015 17:12:45 | 45.93 | 40.83 | 174 | 1.43 | 0.27 | 9.5 |
| 4/21/2015 17:12:53 | 46.26 | 41.16 | 50 | 1.30 | 0.98 | 2.7 |
| 4/21/2015 17:12:54 | 46.59 | 41.49 | 153 | 1.31 | 1.28 | 8.4 |
| 4/21/2015 17:12:55 | 46.92 | 41.82 | 253 | 1.28 | 1.04 | 13.8 |
| 4/21/2015 17:12:57 | 47.24 | 42.14 | 253 | 1.30 | 1.03 | 13.8 |
| 4/21/2015 17:12:58 | 47.57 | 42.47 | 253 | 1.28 | 1.06 | 13.8 |
| 4/21/2015 17:12:59 | 47.90 | 42.80 | 254 | 1.28 | 1.03 | 13.9 |
| 4/21/2015 17:13:01 | 48.23 | 43.13 | 252 | 1.29 | 1.02 | 13.8 |
| 4/21/2015 17:13:03 | 48.56 | 43.46 | 250 | 1.34 | 1.41 | 13.7 |
| 4/21/2015 17:13:04 | 48.88 | 43.78 | 249 | 1.32 | 1.03 | 13.6 |
| 4/21/2015 17:13:05 | 49.21 | 44.11 | 250 | 1.30 | 0.99 | 13.7 |
| 4/21/2015 17:13:07 | 49.54 | 44.44 | 247 | 1.41 | 1.23 | 13.5 |
| 4/21/2015 17:13:28 | 49.87 | 44.77 | 69 | 1.53 | 0.97 | 3.8 |
| 4/21/2015 17:13:36 | 50.20 | 45.10 | 46 | 1.56 | 1.07 | 2.5 |
| 4/21/2015 17:13:47 | 50.53 | 45.43 | 28 | 1.63 | 1.04 | 1.5 |
| 4/21/2015 17:14:00 | 50.85 | 45.75 | 27 | 1.62 | 0.99 | 1.4 |
| 4/21/2015 17:14:13 | 51.18 | 46.08 | 29 | 1.62 | 1.01 | 1.6 |
| 4/21/2015 17:14:26 | 51.51 | 46.41 | 29 | 1.67 | 1.04 | 1.6 |
| 4/21/2015 17:14:39 | 51.84 | 46.74 | 26 | 1.67 | 1.06 | 1.4 |
| 4/21/2015 17:14:48 | 52.11 | 47.01 | 33 | 1.69 | 1.15 | 1.8 |

## E220 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 17:08:39

**End Date:**
4/21/2015 17:16:19

**Operator Note:**
'5.1 5.4 c Auto Complete'

**Northing:**
367,915.10

**Easting:**
253,263.80

**Tide (feet):**
5.10



## Hole: E221 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:48:45 | 35.11 | 30.11 | 1,060 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:45 | 35.43 | 30.43 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:48:46 | 35.76 | 30.76 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:48:46 | 36.09 | 31.09 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 13:48:46 | 36.42 | 31.42 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:47 | 36.75 | 31.75 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:47 | 37.07 | 32.07 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 13:48:47 | 37.40 | 32.40 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 13:48:48 | 37.73 | 32.73 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 13:48:48 | 38.06 | 33.06 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:48:49 | 38.39 | 33.39 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:49 | 38.71 | 33.71 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:49 | 39.04 | 34.04 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:48:50 | 39.37 | 34.37 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:50 | 39.70 | 34.70 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:50 | 40.03 | 35.03 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:48:51 | 40.35 | 35.35 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:48:51 | 40.68 | 35.68 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:48:51 | 41.01 | 36.01 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:52 | 41.34 | 36.34 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:52 | 41.67 | 36.67 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:52 | 41.99 | 36.99 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:53 | 42.32 | 37.32 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:53 | 42.65 | 37.65 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:48:53 | 42.98 | 37.98 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:48:54 | 43.31 | 38.31 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:48:54 | 43.64 | 38.64 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:48:54 | 43.96 | 38.96 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:55 | 44.29 | 39.29 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:55 | 44.62 | 39.62 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 13:48:55 | 44.95 | 39.95 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:56 | 45.28 | 40.28 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:48:56 | 45.60 | 40.60 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:56 | 45.93 | 40.93 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:57 | 46.26 | 41.26 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:57 | 46.59 | 41.59 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:48:57 | 46.92 | 41.92 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:58 | 47.24 | 42.24 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:48:58 | 47.57 | 42.57 | 1,051 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:48:58 | 47.90 | 42.90 | 1,065 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 13:48:59 | 48.23 | 43.23 | 1,065 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 13:48:59 | 48.56 | 43.56 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:49:00 | 48.88 | 43.88 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:49:00 | 49.21 | 44.21 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:49:00 | 49.54 | 44.54 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:49:01 | 49.87 | 44.87 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 13:49:01 | 50.20 | 45.20 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 13:49:01 | 50.53 | 45.53 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:49:33 | 50.85 | 45.85 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 13:49:40 | 51.18 | 46.18 | 47 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 13:49:47 | 51.51 | 46.51 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 13:49:54 | 51.84 | 46.84 | 50 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 13:49:57 | 52.00 | 47.00 | 49 | 1.73 | 0.21 | 2.7 |

## E221 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 13:47:11

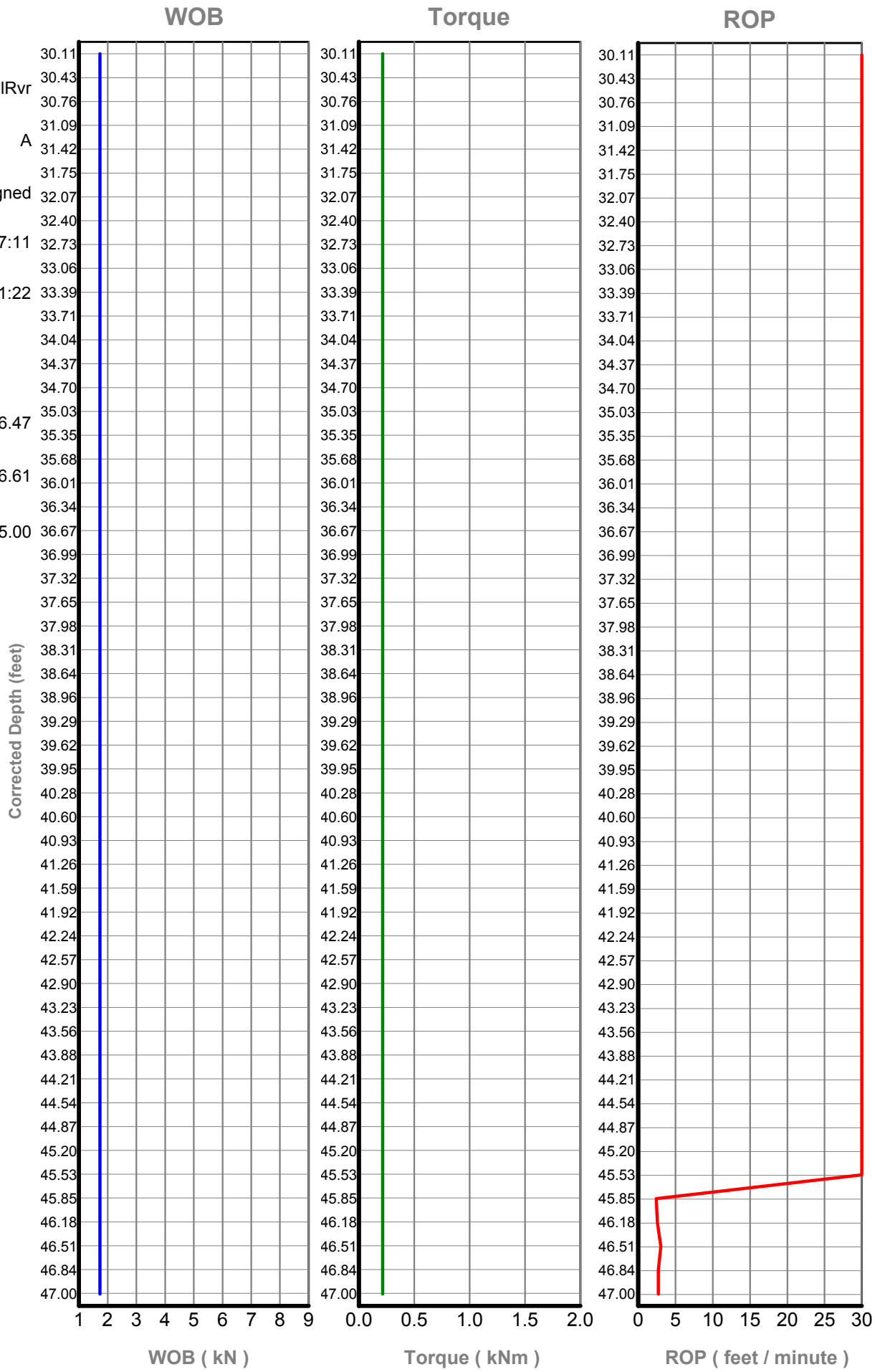
**End Date:**
4/21/2015 13:51:22

**Operator Note:**
'5 4.9 b Rock'

**Northing:**
367,966.47

**Easting:**
253,336.61

**Tide (feet):**
5.00



## Hole: E222 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:53:18 | 35.43 | 30.13 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:53:19 | 35.76 | 30.46 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:53:19 | 36.09 | 30.79 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 13:53:19 | 36.42 | 31.12 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 13:53:20 | 36.75 | 31.45 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 13:53:20 | 37.07 | 31.77 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:20 | 37.40 | 32.10 | 998 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 13:53:21 | 37.73 | 32.43 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 13:53:21 | 38.06 | 32.76 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 13:53:21 | 38.39 | 33.09 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 13:53:22 | 38.71 | 33.41 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 13:53:22 | 39.04 | 33.74 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 13:53:22 | 39.37 | 34.07 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 13:53:23 | 39.70 | 34.40 | 981 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 13:53:23 | 40.03 | 34.73 | 981 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 13:53:23 | 40.35 | 35.05 | 981 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 13:53:24 | 40.68 | 35.38 | 978 | 1.73 | 0.21 | 53.5 |
| 4/21/2015 13:53:24 | 41.01 | 35.71 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 13:53:25 | 41.34 | 36.04 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 13:53:25 | 41.67 | 36.37 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 13:53:25 | 41.99 | 36.69 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 13:53:33 | 42.32 | 37.02 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 13:53:34 | 42.65 | 37.35 | 76 | 1.73 | 0.21 | 4.2 |
| 4/21/2015 13:53:34 | 42.98 | 37.68 | 271 | 1.73 | 0.21 | 14.8 |
| 4/21/2015 13:53:35 | 43.31 | 38.01 | 271 | 1.73 | 0.21 | 14.8 |
| 4/21/2015 13:53:35 | 43.64 | 38.34 | 471 | 1.73 | 0.21 | 25.7 |
| 4/21/2015 13:53:35 | 43.96 | 38.66 | 680 | 1.73 | 0.21 | 37.2 |
| 4/21/2015 13:53:36 | 44.29 | 38.99 | 680 | 1.73 | 0.21 | 37.2 |
| 4/21/2015 13:53:36 | 44.62 | 39.32 | 880 | 1.73 | 0.21 | 48.1 |
| 4/21/2015 13:53:36 | 44.95 | 39.65 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:37 | 45.28 | 39.98 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:37 | 45.60 | 40.30 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 13:53:37 | 45.93 | 40.63 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 13:53:38 | 46.26 | 40.96 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 13:53:38 | 46.59 | 41.29 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:39 | 46.92 | 41.62 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 13:53:39 | 47.24 | 41.94 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 13:53:39 | 47.57 | 42.27 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 13:53:40 | 47.90 | 42.60 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 13:53:40 | 48.23 | 42.93 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:41 | 48.56 | 43.26 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:41 | 48.88 | 43.58 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 13:53:41 | 49.21 | 43.91 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 13:53:42 | 49.54 | 44.24 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 13:53:42 | 49.87 | 44.57 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 13:53:42 | 50.20 | 44.90 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:43 | 50.53 | 45.23 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:43 | 50.85 | 45.55 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 13:53:43 | 51.18 | 45.88 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 13:53:44 | 51.51 | 46.21 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 13:53:44 | 51.84 | 46.54 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 13:53:44 | 52.17 | 46.87 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 13:53:45 | 52.49 | 47.19 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 13:53:45 | 52.82 | 47.52 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 13:53:45 | 53.15 | 47.85 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:46 | 53.48 | 48.18 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 13:53:46 | 53.81 | 48.51 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 13:53:46 | 54.13 | 48.83 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 13:53:54 | 54.46 | 49.16 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 13:53:55 | 54.79 | 49.49 | 85 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 13:53:55 | 55.12 | 49.82 | 251 | 1.73 | 0.21 | 13.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 13:53:56 | 55.45 | 50.15 | 401 | 1.73 | 0.21 | 21.9 |
| 4/21/2015 | 13:53:56 | 55.77 | 50.47 | 552 | 1.73 | 0.21 | 30.2 |
| 4/21/2015 | 13:53:57 | 56.10 | 50.80 | 552 | 1.73 | 0.21 | 30.2 |
| 4/21/2015 | 13:53:57 | 56.43 | 51.13 | 732 | 1.73 | 0.21 | 40.0 |
| 4/21/2015 | 13:53:58 | 56.76 | 51.46 | 711 | 1.73 | 0.21 | 38.9 |
| 4/21/2015 | 13:53:58 | 57.09 | 51.79 | 675 | 1.73 | 0.21 | 36.9 |
| 4/21/2015 | 13:54:01 | 57.41 | 52.11 | 181 | 1.73 | 0.21 | 9.9 |
| 4/21/2015 | 13:54:06 | 57.74 | 52.44 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 13:54:11 | 58.07 | 52.77 | 81 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 13:54:18 | 58.40 | 53.10 | 49 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 | 13:54:24 | 58.73 | 53.43 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 13:54:30 | 59.06 | 53.76 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 13:54:36 | 59.38 | 54.08 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 13:54:37 | 59.45 | 54.15 | 52 | 1.73 | 0.21 | 2.8 |

## E222 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 13:52:03

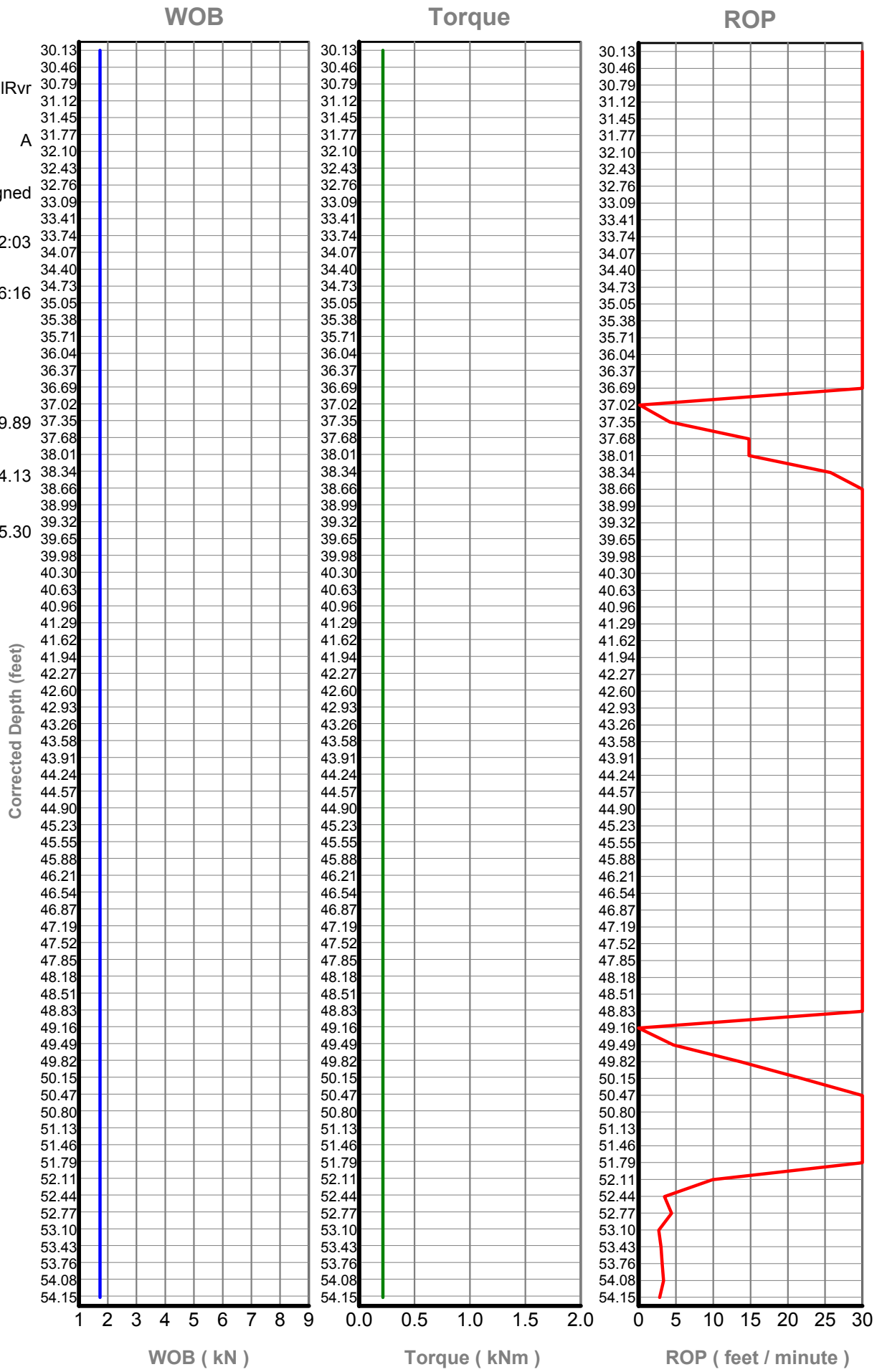
**End Date:**
4/21/2015 13:56:16

**Operator Note:**
'5.3 5.0 b Rock'

**Northing:**
367,999.89

**Easting:**
253,384.13

**Tide (feet):**
5.30



## Hole: E223 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 13:58:11 | 35.43 | 30.13 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:11 | 35.76 | 30.46 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:11 | 36.09 | 30.79 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:58:12 | 36.42 | 31.12 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:12 | 36.75 | 31.45 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:13 | 37.07 | 31.77 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 13:58:13 | 37.40 | 32.10 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:14 | 37.73 | 32.43 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:14 | 38.06 | 32.76 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 13:58:14 | 38.39 | 33.09 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:58:15 | 38.71 | 33.41 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:58:15 | 39.04 | 33.74 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 13:58:15 | 39.37 | 34.07 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:16 | 39.70 | 34.40 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:16 | 40.03 | 34.73 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:58:16 | 40.35 | 35.05 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:17 | 40.68 | 35.38 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:17 | 41.01 | 35.71 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 13:58:17 | 41.34 | 36.04 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:58:18 | 41.67 | 36.37 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:58:18 | 41.99 | 36.69 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:18 | 42.32 | 37.02 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 13:58:18 | 42.65 | 37.35 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:19 | 42.98 | 37.68 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:58:19 | 43.31 | 38.01 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 13:58:19 | 43.64 | 38.34 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:58:20 | 43.96 | 38.66 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:58:20 | 44.29 | 38.99 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 13:58:20 | 44.62 | 39.32 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 13:58:21 | 44.95 | 39.65 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:58:21 | 45.28 | 39.98 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 13:58:21 | 45.60 | 40.30 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:58:22 | 45.93 | 40.63 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:22 | 46.26 | 40.96 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:22 | 46.59 | 41.29 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 13:58:23 | 46.92 | 41.62 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 13:58:24 | 47.24 | 41.94 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 13:58:24 | 47.57 | 42.27 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:24 | 47.90 | 42.60 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:25 | 48.23 | 42.93 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:25 | 48.56 | 43.26 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:25 | 48.88 | 43.58 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:26 | 49.21 | 43.91 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 13:58:26 | 49.54 | 44.24 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:58:26 | 49.87 | 44.57 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:58:27 | 50.20 | 44.90 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:58:27 | 50.53 | 45.23 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:58:27 | 50.85 | 45.55 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:28 | 51.18 | 45.88 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:28 | 51.51 | 46.21 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:58:28 | 51.84 | 46.54 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:58:29 | 52.17 | 46.87 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 13:58:29 | 52.49 | 47.19 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 13:58:29 | 52.82 | 47.52 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 13:58:30 | 53.15 | 47.85 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 13:58:30 | 53.48 | 48.18 | 1,045 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 13:58:30 | 53.81 | 48.51 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:31 | 54.13 | 48.83 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 13:58:31 | 54.46 | 49.16 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 13:58:31 | 54.79 | 49.49 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 13:58:32 | 55.12 | 49.82 | 1,023 | 1.73 | 0.21 | 56.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 13:58:32 | 55.45 | 50.15 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 | 13:58:32 | 55.77 | 50.47 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 | 13:58:33 | 56.10 | 50.80 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 | 13:58:33 | 56.43 | 51.13 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 | 13:58:42 | 56.76 | 51.46 | 112 | 1.73 | 0.21 | 6.1 |
| 4/21/2015 | 13:58:43 | 57.09 | 51.79 | 176 | 1.73 | 0.21 | 9.6 |
| 4/21/2015 | 13:58:43 | 57.41 | 52.11 | 304 | 1.73 | 0.21 | 16.6 |
| 4/21/2015 | 13:58:44 | 57.74 | 52.44 | 486 | 1.73 | 0.21 | 26.6 |
| 4/21/2015 | 13:58:44 | 58.07 | 52.77 | 649 | 1.73 | 0.21 | 35.5 |
| 4/21/2015 | 13:58:45 | 58.40 | 53.10 | 649 | 1.73 | 0.21 | 35.5 |
| 4/21/2015 | 13:58:45 | 58.73 | 53.43 | 708 | 1.73 | 0.21 | 38.7 |
| 4/21/2015 | 13:58:50 | 59.06 | 53.76 | 123 | 1.73 | 0.21 | 6.7 |
| 4/21/2015 | 13:58:50 | 59.38 | 54.08 | 209 | 1.73 | 0.21 | 11.4 |
| 4/21/2015 | 13:58:52 | 59.71 | 54.41 | 378 | 1.73 | 0.21 | 20.7 |
| 4/21/2015 | 13:58:54 | 60.04 | 54.74 | 134 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 13:58:55 | 60.32 | 55.02 | 207 | 1.73 | 0.21 | 11.3 |

## E223 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 13:56:56

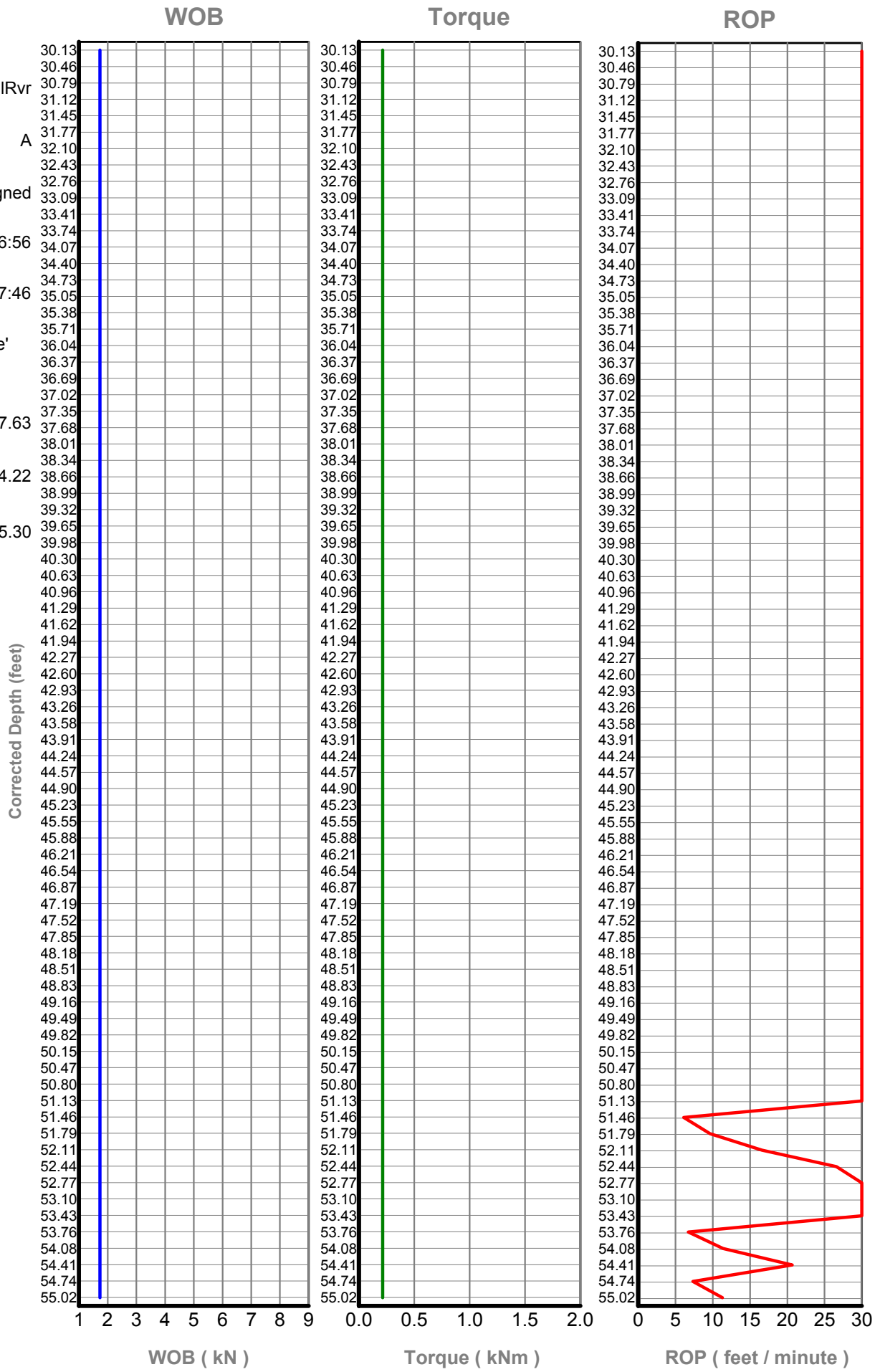
**End Date:**
4/21/2015 14:07:46

**Operator Note:**
'5.3 5.2 b Auto Complete'

**Northing:**
368,047.63

**Easting:**
253,444.22

**Tide (feet):**
5.30



## Hole: E224 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 5:07:28 | 36.42 | 30.02 | 911 | 0.31 | 0.33 | 49.8 |
| 4/22/2015 5:07:29 | 36.75 | 30.35 | 911 | 0.31 | 0.33 | 49.8 |
| 4/22/2015 5:07:28 | 37.07 | 30.67 | 872 | 0.32 | 0.32 | 47.7 |
| 4/22/2015 5:07:29 | 37.40 | 31.00 | 872 | 0.32 | 0.32 | 47.7 |
| 4/22/2015 5:07:29 | 37.73 | 31.33 | 884 | 0.32 | 0.32 | 48.3 |
| 4/22/2015 5:07:30 | 38.06 | 31.66 | 884 | 0.32 | 0.32 | 48.3 |
| 4/22/2015 5:07:30 | 38.39 | 31.99 | 884 | 0.31 | 0.32 | 48.3 |
| 4/22/2015 5:07:31 | 38.71 | 32.31 | 913 | 0.31 | 0.32 | 49.9 |
| 4/22/2015 5:07:31 | 39.04 | 32.64 | 913 | 0.31 | 0.32 | 49.9 |
| 4/22/2015 5:07:31 | 39.37 | 32.97 | 913 | 0.32 | 0.32 | 49.9 |
| 4/22/2015 5:07:32 | 39.70 | 33.30 | 929 | 0.31 | 0.32 | 50.8 |
| 4/22/2015 5:07:32 | 40.03 | 33.63 | 929 | 0.31 | 0.32 | 50.8 |
| 4/22/2015 5:07:33 | 40.35 | 33.95 | 929 | 0.31 | 0.32 | 50.8 |
| 4/22/2015 5:07:33 | 40.68 | 34.28 | 979 | 0.31 | 0.32 | 53.5 |
| 4/22/2015 5:07:33 | 41.01 | 34.61 | 992 | 0.33 | 0.32 | 54.3 |
| 4/22/2015 5:07:34 | 41.34 | 34.94 | 992 | 0.33 | 0.32 | 54.3 |
| 4/22/2015 5:07:34 | 41.67 | 35.27 | 966 | 0.32 | 0.32 | 52.8 |
| 4/22/2015 5:07:34 | 41.99 | 35.59 | 969 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:35 | 42.32 | 35.92 | 969 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:35 | 42.65 | 36.25 | 960 | 0.32 | 0.31 | 52.5 |
| 4/22/2015 5:07:35 | 42.98 | 36.58 | 960 | 0.32 | 0.32 | 52.5 |
| 4/22/2015 5:07:36 | 43.31 | 36.91 | 960 | 0.34 | 0.32 | 52.5 |
| 4/22/2015 5:07:36 | 43.64 | 37.24 | 960 | 0.34 | 0.32 | 52.5 |
| 4/22/2015 5:07:36 | 43.96 | 37.56 | 936 | 0.32 | 0.32 | 51.2 |
| 4/22/2015 5:07:37 | 44.29 | 37.89 | 959 | 0.32 | 0.32 | 52.5 |
| 4/22/2015 5:07:37 | 44.62 | 38.22 | 959 | 0.32 | 0.32 | 52.5 |
| 4/22/2015 5:07:37 | 44.95 | 38.55 | 959 | 0.32 | 0.32 | 52.5 |
| 4/22/2015 5:07:38 | 45.28 | 38.88 | 968 | 0.31 | 0.32 | 52.9 |
| 4/22/2015 5:07:39 | 45.60 | 39.20 | 968 | 0.31 | 0.32 | 52.9 |
| 4/22/2015 5:07:38 | 45.93 | 39.53 | 956 | 0.32 | 0.32 | 52.3 |
| 4/22/2015 5:07:39 | 46.26 | 39.86 | 956 | 0.32 | 0.32 | 52.3 |
| 4/22/2015 5:07:40 | 46.59 | 40.19 | 931 | 0.32 | 0.32 | 50.9 |
| 4/22/2015 5:07:40 | 46.92 | 40.52 | 931 | 0.32 | 0.32 | 50.9 |
| 4/22/2015 5:07:40 | 47.24 | 40.84 | 969 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:40 | 47.57 | 41.17 | 969 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:41 | 47.90 | 41.50 | 969 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:41 | 48.23 | 41.83 | 987 | 0.32 | 0.32 | 54.0 |
| 4/22/2015 5:07:42 | 48.56 | 42.16 | 970 | 0.32 | 0.33 | 53.0 |
| 4/22/2015 5:07:42 | 48.88 | 42.48 | 993 | 0.33 | 0.32 | 54.3 |
| 4/22/2015 5:07:43 | 49.21 | 42.81 | 993 | 0.33 | 0.32 | 54.3 |
| 4/22/2015 5:07:43 | 49.54 | 43.14 | 985 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 5:07:43 | 49.87 | 43.47 | 982 | 0.32 | 0.32 | 53.7 |
| 4/22/2015 5:07:44 | 50.20 | 43.80 | 982 | 0.32 | 0.32 | 53.7 |
| 4/22/2015 5:07:44 | 50.53 | 44.13 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 5:07:44 | 50.85 | 44.45 | 969 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:45 | 51.18 | 44.78 | 963 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 5:07:45 | 51.51 | 45.11 | 963 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 5:07:45 | 51.84 | 45.44 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 5:07:46 | 52.17 | 45.77 | 968 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:46 | 52.49 | 46.09 | 968 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:46 | 52.82 | 46.42 | 968 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 5:07:47 | 53.15 | 46.75 | 968 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:47 | 53.48 | 47.08 | 968 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:47 | 53.81 | 47.41 | 968 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 5:07:48 | 54.13 | 47.73 | 965 | 0.32 | 0.32 | 52.8 |
| 4/22/2015 5:07:48 | 54.46 | 48.06 | 960 | 0.31 | 0.36 | 52.5 |
| 4/22/2015 5:07:49 | 54.79 | 48.39 | 890 | 0.29 | 0.40 | 48.7 |
| 4/22/2015 5:08:06 | 55.12 | 48.72 | 0 | 3.59 | 0.34 | 0.0 |
| 4/22/2015 5:08:07 | 55.45 | 49.05 | 257 | 4.05 | 0.38 | 14.1 |
| 4/22/2015 5:08:08 | 55.77 | 49.37 | 320 | 2.71 | 0.35 | 17.5 |
| 4/22/2015 5:08:09 | 56.10 | 49.70 | 543 | 2.81 | 0.35 | 29.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 5:08:09 | 56.43 | 50.03 | 507 | 5.29 | 0.37 | 27.7 |
| 4/22/2015 | 5:08:10 | 56.76 | 50.36 | 495 | 4.46 | 0.35 | 27.1 |
| 4/22/2015 | 5:08:10 | 57.09 | 50.69 | 541 | 2.34 | 0.34 | 29.6 |
| 4/22/2015 | 5:08:11 | 57.41 | 51.01 | 570 | 2.37 | 0.34 | 31.2 |
| 4/22/2015 | 5:08:11 | 57.74 | 51.34 | 590 | 2.31 | 0.35 | 32.3 |
| 4/22/2015 | 5:08:12 | 58.07 | 51.67 | 604 | 2.10 | 0.34 | 33.0 |
| 4/22/2015 | 5:08:13 | 58.40 | 52.00 | 662 | 2.15 | 0.34 | 36.2 |
| 4/22/2015 | 5:08:13 | 58.73 | 52.33 | 694 | 2.21 | 0.34 | 37.9 |
| 4/22/2015 | 5:08:14 | 59.06 | 52.66 | 695 | 2.14 | 0.34 | 38.0 |
| 4/22/2015 | 5:08:14 | 59.38 | 52.98 | 708 | 2.18 | 0.34 | 38.7 |
| 4/22/2015 | 5:08:15 | 59.71 | 53.31 | 720 | 2.14 | 0.34 | 39.4 |
| 4/22/2015 | 5:08:15 | 60.04 | 53.64 | 720 | 3.01 | 0.35 | 39.4 |
| 4/22/2015 | 5:08:16 | 60.37 | 53.97 | 706 | 2.26 | 0.34 | 38.6 |
| 4/22/2015 | 5:08:16 | 60.70 | 54.30 | 703 | 2.06 | 0.35 | 38.4 |
| 4/22/2015 | 5:08:17 | 61.02 | 54.62 | 700 | 2.07 | 0.35 | 38.3 |
| 4/22/2015 | 5:08:17 | 61.35 | 54.95 | 691 | 2.15 | 0.35 | 37.8 |
| 4/22/2015 | 5:08:18 | 61.60 | 55.20 | 679 | 5.23 | 0.39 | 37.2 |

## E224 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 5:03:07

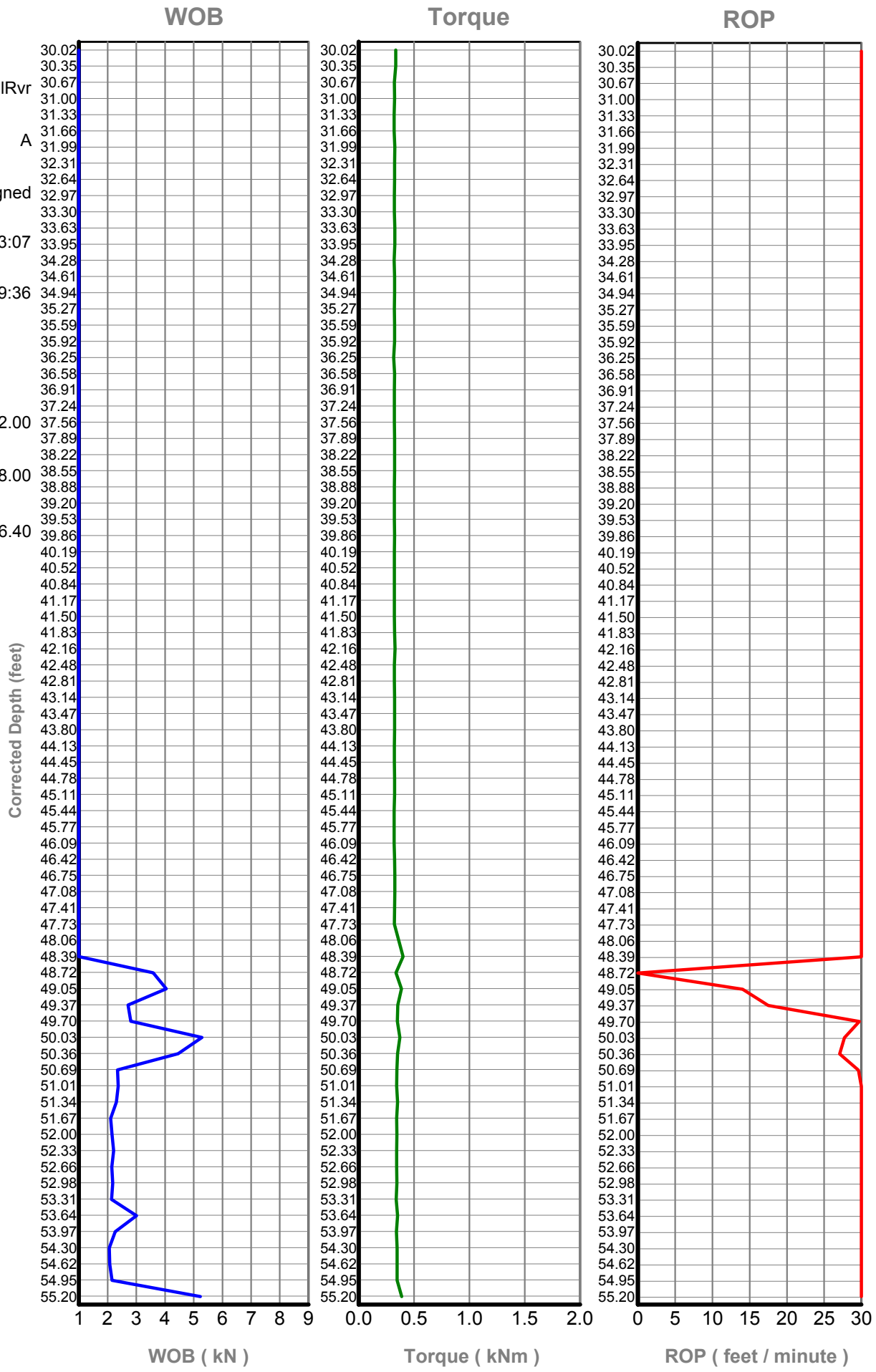
**End Date:**
4/22/2015 5:09:36

**Operator Note:**
'6.4 6.5 b Auto Complete'

**Northing:**
367,632.00

**Easting:**
253,048.00

**Tide (feet):**
6.40



## Hole: E225 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:59:26 | 36.75 | 30.05 | 947 | 1.87 | 0.33 | 51.8 |
| 4/22/2015 4:59:26 | 37.07 | 30.37 | 947 | 1.87 | 0.32 | 51.8 |
| 4/22/2015 4:59:26 | 37.40 | 30.70 | 927 | 1.87 | 0.32 | 50.7 |
| 4/22/2015 4:59:27 | 37.73 | 31.03 | 927 | 1.87 | 0.33 | 50.7 |
| 4/22/2015 4:59:27 | 38.06 | 31.36 | 927 | 1.87 | 0.33 | 50.7 |
| 4/22/2015 4:59:27 | 38.39 | 31.69 | 972 | 1.87 | 0.32 | 53.2 |
| 4/22/2015 4:59:28 | 38.71 | 32.01 | 964 | 1.87 | 0.32 | 52.7 |
| 4/22/2015 4:59:28 | 39.04 | 32.34 | 964 | 1.87 | 0.32 | 52.7 |
| 4/22/2015 4:59:28 | 39.37 | 32.67 | 962 | 1.86 | 0.32 | 52.6 |
| 4/22/2015 4:59:29 | 39.70 | 33.00 | 960 | 1.87 | 0.33 | 52.5 |
| 4/22/2015 4:59:30 | 40.03 | 33.33 | 960 | 1.87 | 0.33 | 52.5 |
| 4/22/2015 4:59:30 | 40.35 | 33.65 | 960 | 1.87 | 0.33 | 52.5 |
| 4/22/2015 4:59:30 | 40.68 | 33.98 | 963 | 1.87 | 0.32 | 52.7 |
| 4/22/2015 4:59:30 | 41.01 | 34.31 | 963 | 0.33 | 0.33 | 52.7 |
| 4/22/2015 4:59:31 | 41.34 | 34.64 | 963 | 0.33 | 0.33 | 52.7 |
| 4/22/2015 4:59:31 | 41.67 | 34.97 | 962 | 0.33 | 0.32 | 52.6 |
| 4/22/2015 4:59:32 | 41.99 | 35.29 | 943 | 0.35 | 0.32 | 51.6 |
| 4/22/2015 4:59:32 | 42.32 | 35.62 | 943 | 0.35 | 0.32 | 51.6 |
| 4/22/2015 4:59:32 | 42.65 | 35.95 | 943 | 0.33 | 0.32 | 51.6 |
| 4/22/2015 4:59:33 | 42.98 | 36.28 | 950 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 4:59:33 | 43.31 | 36.61 | 980 | 0.33 | 0.32 | 53.6 |
| 4/22/2015 4:59:34 | 43.64 | 36.94 | 980 | 0.33 | 0.32 | 53.6 |
| 4/22/2015 4:59:34 | 43.96 | 37.26 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 4:59:34 | 44.29 | 37.59 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 4:59:35 | 44.62 | 37.92 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 4:59:35 | 44.95 | 38.25 | 952 | 0.34 | 0.32 | 52.1 |
| 4/22/2015 4:59:35 | 45.28 | 38.58 | 963 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:59:36 | 45.60 | 38.90 | 963 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 4:59:36 | 45.93 | 39.23 | 953 | 0.34 | 0.33 | 52.1 |
| 4/22/2015 4:59:36 | 46.26 | 39.56 | 953 | 0.33 | 0.32 | 52.1 |
| 4/22/2015 4:59:37 | 46.59 | 39.89 | 949 | 0.33 | 0.33 | 51.9 |
| 4/22/2015 4:59:37 | 46.92 | 40.22 | 949 | 0.33 | 0.33 | 51.9 |
| 4/22/2015 4:59:37 | 47.24 | 40.54 | 953 | 0.34 | 0.33 | 52.1 |
| 4/22/2015 4:59:38 | 47.57 | 40.87 | 952 | 0.34 | 0.33 | 52.0 |
| 4/22/2015 4:59:38 | 47.90 | 41.20 | 952 | 0.34 | 0.33 | 52.0 |
| 4/22/2015 4:59:38 | 48.23 | 41.53 | 952 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 4:59:39 | 48.56 | 41.86 | 989 | 0.34 | 0.32 | 54.1 |
| 4/22/2015 4:59:39 | 48.88 | 42.18 | 974 | 0.34 | 0.32 | 53.3 |
| 4/22/2015 4:59:40 | 49.21 | 42.51 | 974 | 0.34 | 0.32 | 53.3 |
| 4/22/2015 4:59:40 | 49.54 | 42.84 | 984 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 4:59:41 | 49.87 | 43.17 | 972 | 0.33 | 0.32 | 53.2 |
| 4/22/2015 4:59:41 | 50.20 | 43.50 | 972 | 0.33 | 0.32 | 53.2 |
| 4/22/2015 4:59:41 | 50.53 | 43.83 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 4:59:42 | 50.85 | 44.15 | 942 | 0.33 | 0.32 | 51.5 |
| 4/22/2015 4:59:42 | 51.18 | 44.48 | 942 | 0.33 | 0.32 | 51.5 |
| 4/22/2015 4:59:42 | 51.51 | 44.81 | 945 | 0.33 | 0.33 | 51.7 |
| 4/22/2015 4:59:43 | 51.84 | 45.14 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 4:59:43 | 52.17 | 45.47 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:59:44 | 52.49 | 45.79 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:59:44 | 52.82 | 46.12 | 970 | 0.33 | 0.33 | 53.1 |
| 4/22/2015 4:59:44 | 53.15 | 46.45 | 970 | 0.33 | 0.33 | 53.1 |
| 4/22/2015 4:59:45 | 53.48 | 46.78 | 970 | 0.33 | 0.33 | 53.1 |
| 4/22/2015 4:59:45 | 53.81 | 47.11 | 969 | 0.33 | 0.33 | 53.0 |
| 4/22/2015 4:59:45 | 54.13 | 47.43 | 957 | 0.33 | 0.32 | 52.4 |
| 4/22/2015 4:59:46 | 54.46 | 47.76 | 952 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:59:46 | 54.79 | 48.09 | 952 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:59:46 | 55.12 | 48.42 | 952 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 4:59:47 | 55.45 | 48.75 | 965 | 0.33 | 0.33 | 52.8 |
| 4/22/2015 4:59:47 | 55.77 | 49.07 | 941 | 0.33 | 0.33 | 51.4 |
| 4/22/2015 4:59:48 | 56.10 | 49.40 | 941 | 0.33 | 0.33 | 51.4 |
| 4/22/2015 4:59:48 | 56.43 | 49.73 | 941 | 0.33 | 0.33 | 51.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:59:48 | 56.76 | 50.06 | 932 | 0.33 | 0.34 | 51.0 |
| 4/22/2015 | 4:59:49 | 57.09 | 50.39 | 934 | 0.33 | 0.34 | 51.1 |
| 4/22/2015 | 4:59:49 | 57.41 | 50.71 | 934 | 0.33 | 0.34 | 51.1 |
| 4/22/2015 | 4:59:49 | 57.74 | 51.04 | 934 | 0.33 | 0.34 | 51.1 |
| 4/22/2015 | 4:59:50 | 58.07 | 51.37 | 908 | 0.33 | 0.34 | 49.7 |
| 4/22/2015 | 4:59:50 | 58.40 | 51.70 | 908 | 0.33 | 0.34 | 49.7 |
| 4/22/2015 | 4:59:51 | 58.73 | 52.03 | 868 | 0.33 | 0.35 | 47.4 |
| 4/22/2015 | 4:59:51 | 59.06 | 52.36 | 833 | 0.31 | 0.38 | 45.6 |
| 4/22/2015 | 5:00:32 | 59.38 | 52.68 | 13 | 3.12 | 0.39 | 0.7 |
| 4/22/2015 | 5:00:34 | 59.71 | 53.01 | 163 | 8.08 | 0.40 | 8.9 |
| 4/22/2015 | 5:00:35 | 60.04 | 53.34 | 219 | 4.04 | 0.39 | 12.0 |
| 4/22/2015 | 5:00:37 | 60.37 | 53.67 | 245 | 3.21 | 0.40 | 13.4 |
| 4/22/2015 | 5:00:43 | 60.70 | 54.00 | 49 | 3.20 | 0.41 | 2.7 |
| 4/22/2015 | 5:00:50 | 61.02 | 54.32 | 51 | 3.09 | 0.41 | 2.8 |
| 4/22/2015 | 5:00:58 | 61.35 | 54.65 | 46 | 3.39 | 0.39 | 2.5 |
| 4/22/2015 | 5:01:01 | 61.58 | 54.88 | 104 | 3.45 | 0.41 | 5.7 |

## E225 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:47:33

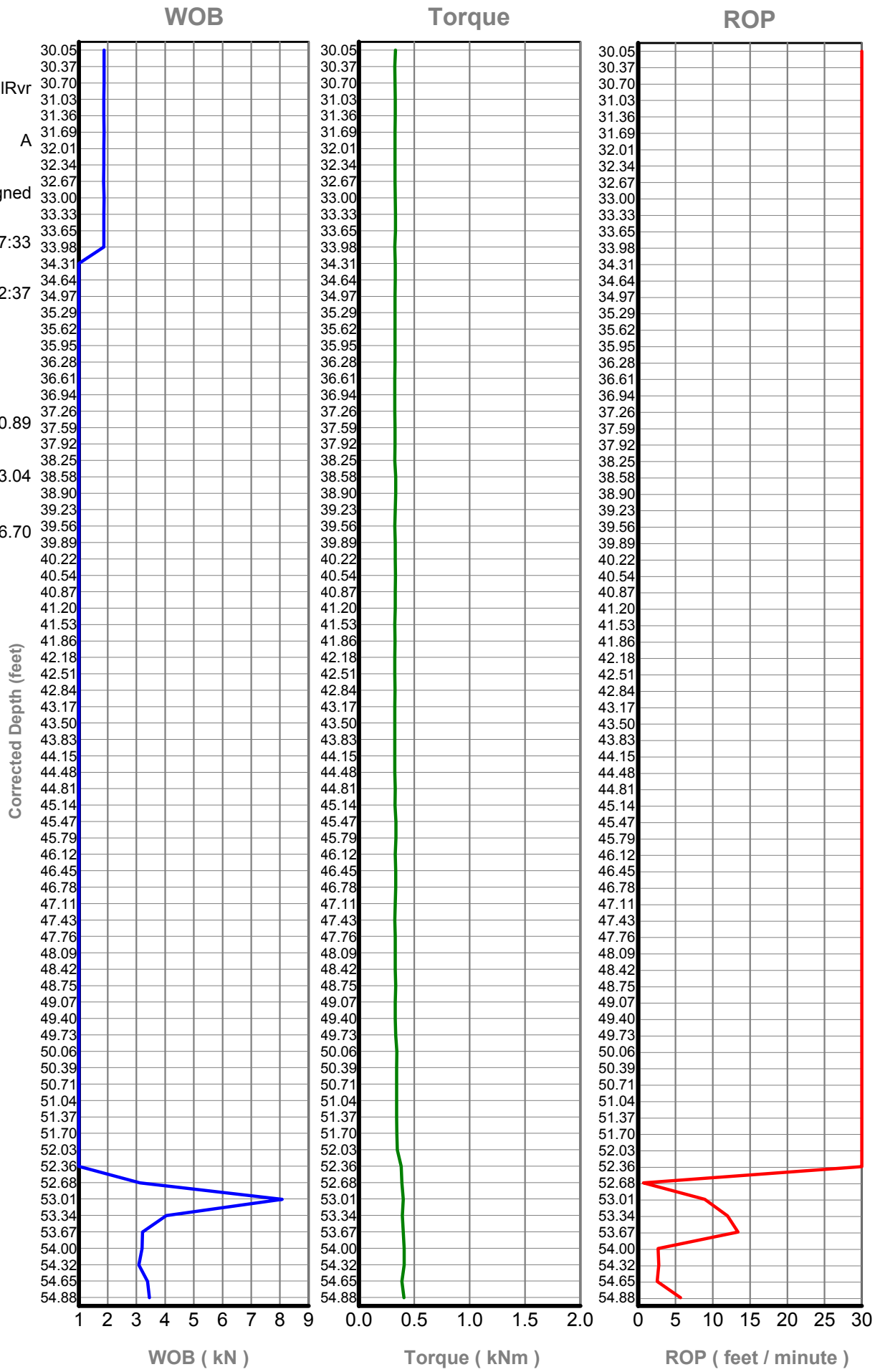
**End Date:**
4/22/2015 5:02:37

**Operator Note:**
'6.7 A6.6 b Auto Complete'

**Northing:**
367,660.89

**Easting:**
253,083.04

**Tide (feet):**
6.70



## Hole: E226 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 4:58:44 | 36.42 | 30.02 | 1,415 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 4:58:44 | 36.75 | 30.35 | 1,421 | 3.18 | 0.15 | 77.7 |
| 4/22/2015 4:58:44 | 37.07 | 30.67 | 1,421 | 3.18 | 0.15 | 77.7 |
| 4/22/2015 4:58:45 | 37.40 | 31.00 | 1,430 | 3.20 | 0.15 | 78.2 |
| 4/22/2015 4:58:45 | 37.73 | 31.33 | 1,430 | 3.20 | 0.15 | 78.2 |
| 4/22/2015 4:58:45 | 38.06 | 31.66 | 1,415 | 3.19 | 0.15 | 77.4 |
| 4/22/2015 4:58:46 | 38.39 | 31.99 | 1,415 | 3.19 | 0.15 | 77.4 |
| 4/22/2015 4:58:46 | 38.71 | 32.31 | 1,355 | 3.20 | 0.15 | 74.1 |
| 4/22/2015 4:58:46 | 39.04 | 32.64 | 1,355 | 3.20 | 0.15 | 74.1 |
| 4/22/2015 4:58:46 | 39.37 | 32.97 | 1,355 | 3.22 | 0.15 | 74.1 |
| 4/22/2015 4:58:47 | 39.70 | 33.30 | 1,355 | 3.22 | 0.15 | 74.1 |
| 4/22/2015 4:58:47 | 40.03 | 33.63 | 1,388 | 3.20 | 0.15 | 75.9 |
| 4/22/2015 4:58:47 | 40.35 | 33.95 | 1,388 | 3.20 | 0.15 | 75.9 |
| 4/22/2015 4:58:47 | 40.68 | 34.28 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 4:58:48 | 41.01 | 34.61 | 1,402 | 3.19 | 0.15 | 76.7 |
| 4/22/2015 4:58:48 | 41.34 | 34.94 | 1,361 | 3.18 | 0.15 | 74.5 |
| 4/22/2015 4:58:48 | 41.67 | 35.27 | 1,361 | 3.18 | 0.15 | 74.5 |
| 4/22/2015 4:58:48 | 41.99 | 35.59 | 1,379 | 3.22 | 0.15 | 75.4 |
| 4/22/2015 4:58:49 | 42.32 | 35.92 | 1,379 | 3.22 | 0.15 | 75.4 |
| 4/22/2015 4:58:49 | 42.65 | 36.25 | 1,444 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 4:58:49 | 42.98 | 36.58 | 1,444 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 4:58:49 | 43.31 | 36.91 | 1,444 | 3.22 | 0.15 | 79.0 |
| 4/22/2015 4:58:49 | 43.64 | 37.24 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 4:58:50 | 43.96 | 37.56 | 1,411 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 4:58:50 | 44.29 | 37.89 | 1,411 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 4:58:50 | 44.62 | 38.22 | 1,411 | 3.18 | 0.15 | 77.2 |
| 4/22/2015 4:58:50 | 44.95 | 38.55 | 1,440 | 3.22 | 0.15 | 78.7 |
| 4/22/2015 4:58:51 | 45.28 | 38.88 | 1,440 | 3.22 | 0.15 | 78.7 |
| 4/22/2015 4:58:51 | 45.60 | 39.20 | 1,429 | 3.20 | 0.15 | 78.1 |
| 4/22/2015 4:58:51 | 45.93 | 39.53 | 1,429 | 3.20 | 0.15 | 78.1 |
| 4/22/2015 4:58:52 | 46.26 | 39.86 | 1,410 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 4:58:52 | 46.59 | 40.19 | 1,410 | 3.20 | 0.15 | 77.1 |
| 4/22/2015 4:58:52 | 46.92 | 40.52 | 1,413 | 3.20 | 0.15 | 77.3 |
| 4/22/2015 4:58:52 | 47.24 | 40.84 | 1,413 | 3.20 | 0.15 | 77.3 |
| 4/22/2015 4:58:53 | 47.57 | 41.17 | 1,399 | 3.22 | 0.15 | 76.5 |
| 4/22/2015 4:58:53 | 47.90 | 41.50 | 1,399 | 3.22 | 0.15 | 76.5 |
| 4/22/2015 4:58:53 | 48.23 | 41.83 | 1,411 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 4:58:53 | 48.56 | 42.16 | 1,411 | 3.22 | 0.15 | 77.1 |
| 4/22/2015 4:58:54 | 48.88 | 42.48 | 1,405 | 3.23 | 0.15 | 76.8 |
| 4/22/2015 4:58:54 | 49.21 | 42.81 | 1,405 | 3.23 | 0.15 | 76.8 |
| 4/22/2015 4:58:54 | 49.54 | 43.14 | 1,405 | 3.20 | 0.15 | 76.8 |
| 4/22/2015 4:58:54 | 49.87 | 43.47 | 1,405 | 3.20 | 0.15 | 76.8 |
| 4/22/2015 4:58:55 | 50.20 | 43.80 | 1,397 | 3.21 | 0.15 | 76.4 |
| 4/22/2015 4:58:55 | 50.53 | 44.13 | 1,397 | 3.21 | 0.15 | 76.4 |
| 4/22/2015 4:58:55 | 50.85 | 44.45 | 1,408 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 4:58:55 | 51.18 | 44.78 | 1,408 | 3.20 | 0.15 | 77.0 |
| 4/22/2015 4:58:56 | 51.51 | 45.11 | 1,402 | 3.21 | 0.15 | 76.7 |
| 4/22/2015 4:58:56 | 51.84 | 45.44 | 1,402 | 3.21 | 0.15 | 76.7 |
| 4/22/2015 4:58:56 | 52.17 | 45.77 | 1,402 | 3.21 | 0.15 | 76.7 |
| 4/22/2015 4:58:57 | 52.49 | 46.09 | 1,402 | 3.21 | 0.15 | 76.7 |
| 4/22/2015 4:58:57 | 52.82 | 46.42 | 1,397 | 3.18 | 0.15 | 76.4 |
| 4/22/2015 4:58:57 | 53.15 | 46.75 | 1,397 | 3.18 | 0.15 | 76.4 |
| 4/22/2015 4:58:57 | 53.48 | 47.08 | 1,416 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 4:58:58 | 53.81 | 47.41 | 1,416 | 3.20 | 0.15 | 77.4 |
| 4/22/2015 4:58:58 | 54.13 | 47.73 | 1,399 | 3.19 | 0.15 | 76.5 |
| 4/22/2015 4:58:58 | 54.46 | 48.06 | 1,399 | 3.19 | 0.15 | 76.5 |
| 4/22/2015 4:58:58 | 54.79 | 48.39 | 1,402 | 3.20 | 0.15 | 76.7 |
| 4/22/2015 4:58:59 | 55.12 | 48.72 | 1,402 | 3.20 | 0.15 | 76.7 |
| 4/22/2015 4:58:59 | 55.45 | 49.05 | 1,399 | 3.25 | 0.15 | 76.5 |
| 4/22/2015 4:59:00 | 55.77 | 49.37 | 1,399 | 3.25 | 0.15 | 76.5 |
| 4/22/2015 4:59:42 | 56.10 | 49.70 | 22 | 1.83 | 0.90 | 1.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 4:59:50 | 56.43 | 50.03 | 74 | 1.98 | 1.17 | 4.1 |
| 4/22/2015 | 5:00:02 | 56.76 | 50.36 | 33 | 2.03 | 1.16 | 1.8 |
| 4/22/2015 | 5:00:11 | 57.09 | 50.69 | 40 | 2.06 | 1.19 | 2.2 |
| 4/22/2015 | 5:00:21 | 57.41 | 51.01 | 43 | 2.01 | 1.06 | 2.4 |
| 4/22/2015 | 5:00:26 | 57.59 | 51.19 | 35 | 2.06 | 1.26 | 1.9 |

## E226 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 4:57:04

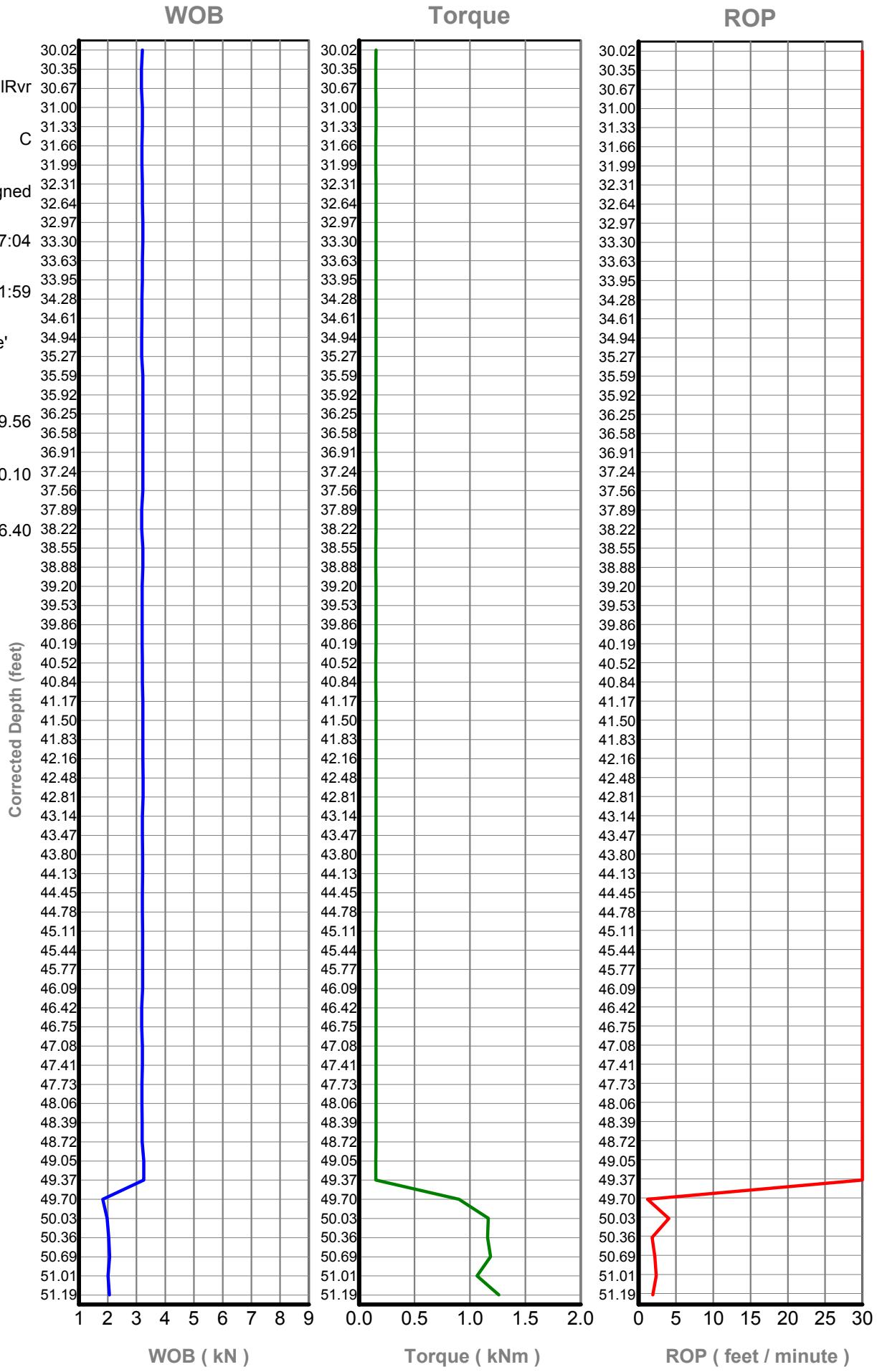
**End Date:**
4/22/2015 5:01:59

**Operator Note:**
'6.4 6.7 c Auto Complete'

**Northing:**
367,709.56

**Easting:**
253,140.10

**Tide (feet):**
6.40



## Hole: E227 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 16:10:28 | 36.09 | 30.09 | 1,096 | 1.73 | 0.21 | 60.0 |
| 4/21/2015 16:10:29 | 36.42 | 30.42 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:29 | 36.75 | 30.75 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:29 | 37.07 | 31.07 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 16:10:30 | 37.40 | 31.40 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:30 | 37.73 | 31.73 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:30 | 38.06 | 32.06 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:31 | 38.39 | 32.39 | 1,092 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 16:10:31 | 38.71 | 32.71 | 1,092 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 16:10:31 | 39.04 | 33.04 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:32 | 39.37 | 33.37 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:32 | 39.70 | 33.70 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:32 | 40.03 | 34.03 | 1,089 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 16:10:33 | 40.35 | 34.35 | 1,089 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 16:10:33 | 40.68 | 34.68 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 16:10:33 | 41.01 | 35.01 | 1,076 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:34 | 41.34 | 35.34 | 1,076 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:34 | 41.67 | 35.67 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 16:10:34 | 41.99 | 35.99 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:35 | 42.32 | 36.32 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:35 | 42.65 | 36.65 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 16:10:35 | 42.98 | 36.98 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:36 | 43.31 | 37.31 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:36 | 43.64 | 37.64 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:37 | 43.96 | 37.96 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:37 | 44.29 | 38.29 | 1,076 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:37 | 44.62 | 38.62 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:38 | 44.95 | 38.95 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:38 | 45.28 | 39.28 | 1,083 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:38 | 45.60 | 39.60 | 1,071 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:39 | 45.93 | 39.93 | 1,071 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:39 | 46.26 | 40.26 | 1,071 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:39 | 46.59 | 40.59 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:40 | 46.92 | 40.92 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:40 | 47.24 | 41.24 | 1,065 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 16:10:40 | 47.57 | 41.57 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 16:10:41 | 47.90 | 41.90 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 16:10:41 | 48.23 | 42.23 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 16:10:41 | 48.56 | 42.56 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 16:10:41 | 48.88 | 42.88 | 1,078 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 16:10:42 | 49.21 | 43.21 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 16:10:42 | 49.54 | 43.54 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 16:10:42 | 49.87 | 43.87 | 1,083 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 16:10:43 | 50.20 | 44.20 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:43 | 50.53 | 44.53 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 16:10:43 | 50.85 | 44.85 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 16:10:44 | 51.18 | 45.18 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 16:10:44 | 51.51 | 45.51 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 16:10:44 | 51.84 | 45.84 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 16:10:45 | 52.17 | 46.17 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 16:10:45 | 52.49 | 46.49 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 16:10:45 | 52.82 | 46.82 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 16:10:46 | 53.15 | 47.15 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 16:10:46 | 53.48 | 47.48 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 16:10:46 | 53.81 | 47.81 | 1,043 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 16:10:47 | 54.13 | 48.13 | 1,043 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 16:10:47 | 54.46 | 48.46 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 16:10:48 | 54.79 | 48.79 | 891 | 1.73 | 0.21 | 48.7 |
| 4/21/2015 16:10:50 | 55.12 | 49.12 | 362 | 1.73 | 0.21 | 19.8 |
| 4/21/2015 16:10:51 | 55.45 | 49.45 | 362 | 1.73 | 0.21 | 19.8 |
| 4/21/2015 16:10:51 | 55.77 | 49.77 | 292 | 1.73 | 0.21 | 16.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 16:11:04 | 56.10 | 50.10 | 62 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 | 16:11:04 | 56.43 | 50.43 | 156 | 1.73 | 0.21 | 8.5 |
| 4/21/2015 | 16:11:05 | 56.76 | 50.76 | 262 | 1.73 | 0.21 | 14.3 |
| 4/21/2015 | 16:11:13 | 57.09 | 51.09 | 38 | 1.73 | 0.21 | 2.1 |
| 4/21/2015 | 16:11:20 | 57.41 | 51.41 | 41 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 | 16:11:25 | 57.74 | 51.74 | 85 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 16:11:32 | 58.07 | 52.07 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 16:11:40 | 58.40 | 52.40 | 41 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 | 16:11:50 | 58.73 | 52.73 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 | 16:11:57 | 59.06 | 53.06 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 16:12:05 | 59.38 | 53.38 | 53 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 16:12:13 | 59.66 | 53.66 | 41 | 1.73 | 0.21 | 2.2 |

## E227 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 16:08:50

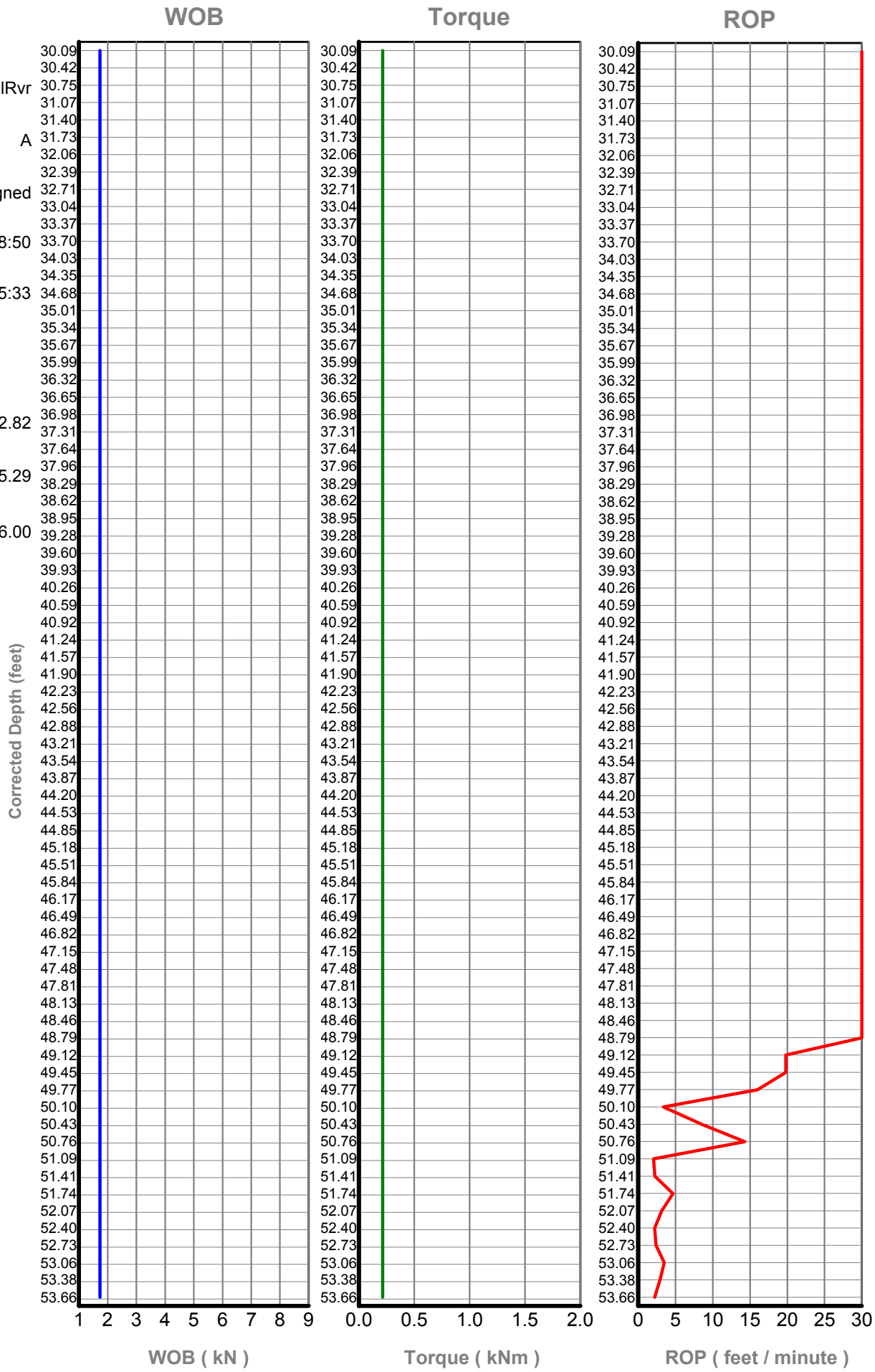
**End Date:**
4/21/2015 16:15:33

**Operator Note:**
'6 6.1 b Auto Complete'

**Northing:**
367,762.82

**Easting:**
253,215.29

**Tide (feet):**
6.00



## Hole: E228 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 16:38:40 | 35.76 | 30.16 | 1,084 | 0.28 | 0.31 | 59.3 |
| 4/21/2015 16:38:39 | 36.09 | 30.49 | 1,074 | 0.28 | 0.33 | 58.7 |
| 4/21/2015 16:38:40 | 36.42 | 30.82 | 1,088 | 0.28 | 0.31 | 59.5 |
| 4/21/2015 16:38:41 | 36.75 | 31.15 | 1,088 | 0.28 | 0.31 | 59.5 |
| 4/21/2015 16:38:41 | 37.07 | 31.47 | 1,094 | 0.29 | 0.30 | 59.8 |
| 4/21/2015 16:38:41 | 37.40 | 31.80 | 1,094 | 0.29 | 0.30 | 59.8 |
| 4/21/2015 16:38:41 | 37.73 | 32.13 | 1,088 | 0.28 | 0.31 | 59.5 |
| 4/21/2015 16:38:42 | 38.06 | 32.46 | 1,085 | 0.27 | 0.31 | 59.3 |
| 4/21/2015 16:38:42 | 38.39 | 32.79 | 1,085 | 0.27 | 0.31 | 59.3 |
| 4/21/2015 16:38:42 | 38.71 | 33.11 | 1,079 | 0.28 | 0.32 | 59.0 |
| 4/21/2015 16:38:43 | 39.04 | 33.44 | 1,079 | 0.28 | 0.33 | 59.0 |
| 4/21/2015 16:38:43 | 39.37 | 33.77 | 1,079 | 0.28 | 0.33 | 59.0 |
| 4/21/2015 16:38:43 | 39.70 | 34.10 | 1,076 | 0.28 | 0.31 | 58.8 |
| 4/21/2015 16:38:44 | 40.03 | 34.43 | 1,079 | 0.28 | 0.32 | 59.0 |
| 4/21/2015 16:38:44 | 40.35 | 34.75 | 1,079 | 0.28 | 0.32 | 59.0 |
| 4/21/2015 16:38:44 | 40.68 | 35.08 | 1,076 | 0.28 | 0.31 | 58.8 |
| 4/21/2015 16:38:45 | 41.01 | 35.41 | 1,076 | 0.28 | 0.31 | 58.8 |
| 4/21/2015 16:38:45 | 41.34 | 35.74 | 1,081 | 0.28 | 0.31 | 59.1 |
| 4/21/2015 16:38:45 | 41.67 | 36.07 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/21/2015 16:38:46 | 41.99 | 36.39 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/21/2015 16:38:46 | 42.32 | 36.72 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/21/2015 16:38:46 | 42.65 | 37.05 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/21/2015 16:38:47 | 42.98 | 37.38 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/21/2015 16:38:47 | 43.31 | 37.71 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/21/2015 16:38:47 | 43.64 | 38.04 | 1,090 | 0.28 | 0.31 | 59.6 |
| 4/21/2015 16:38:47 | 43.96 | 38.36 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/21/2015 16:38:48 | 44.29 | 38.69 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/21/2015 16:38:48 | 44.62 | 39.02 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/21/2015 16:38:48 | 44.95 | 39.35 | 1,078 | 0.29 | 0.32 | 59.0 |
| 4/21/2015 16:38:49 | 45.28 | 39.68 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/21/2015 16:38:49 | 45.60 | 40.00 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/21/2015 16:38:49 | 45.93 | 40.33 | 1,078 | 0.28 | 0.31 | 59.0 |
| 4/21/2015 16:38:50 | 46.26 | 40.66 | 1,078 | 0.28 | 0.31 | 59.0 |
| 4/21/2015 16:38:51 | 46.59 | 40.99 | 1,078 | 0.28 | 0.31 | 59.0 |
| 4/21/2015 16:38:50 | 46.92 | 41.32 | 1,072 | 0.28 | 0.31 | 58.6 |
| 4/21/2015 16:38:51 | 47.24 | 41.64 | 1,072 | 0.28 | 0.31 | 58.6 |
| 4/21/2015 16:38:51 | 47.57 | 41.97 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/21/2015 16:38:52 | 47.90 | 42.30 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/21/2015 16:38:52 | 48.23 | 42.63 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/21/2015 16:38:52 | 48.56 | 42.96 | 1,072 | 0.29 | 0.33 | 58.6 |
| 4/21/2015 16:38:53 | 48.88 | 43.28 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/21/2015 16:38:53 | 49.21 | 43.61 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/21/2015 16:38:53 | 49.54 | 43.94 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/21/2015 16:38:54 | 49.87 | 44.27 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/21/2015 16:38:54 | 50.20 | 44.60 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/21/2015 16:38:54 | 50.53 | 44.93 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/21/2015 16:38:55 | 50.85 | 45.25 | 1,079 | 0.29 | 0.32 | 59.0 |
| 4/21/2015 16:38:55 | 51.18 | 45.58 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/21/2015 16:38:55 | 51.51 | 45.91 | 1,073 | 0.29 | 0.32 | 58.7 |
| 4/21/2015 16:38:56 | 51.84 | 46.24 | 1,073 | 0.29 | 0.32 | 58.7 |
| 4/21/2015 16:38:56 | 52.17 | 46.57 | 1,061 | 0.28 | 0.31 | 58.0 |
| 4/21/2015 16:38:56 | 52.49 | 46.89 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 16:38:57 | 52.82 | 47.22 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/21/2015 16:38:57 | 53.15 | 47.55 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/21/2015 16:38:57 | 53.48 | 47.88 | 1,073 | 0.27 | 0.25 | 58.7 |
| 4/21/2015 16:38:58 | 53.81 | 48.21 | 1,073 | 0.27 | 0.25 | 58.7 |
| 4/21/2015 16:39:15 | 54.13 | 48.53 | 43 | 3.22 | 0.39 | 2.4 |
| 4/21/2015 16:39:22 | 54.46 | 48.86 | 49 | 3.40 | 0.40 | 2.7 |
| 4/21/2015 16:39:23 | 54.79 | 49.19 | 91 | 3.20 | 0.37 | 5.0 |
| 4/21/2015 16:39:27 | 55.12 | 49.52 | 86 | 2.90 | 0.40 | 4.7 |
| 4/21/2015 16:39:35 | 55.45 | 49.85 | 47 | 2.72 | 0.40 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 16:39:43 | 55.77 | 50.17 | 46 | 3.12 | 0.39 | 2.5 |
| 4/21/2015 | 16:39:51 | 56.10 | 50.50 | 46 | 2.66 | 0.39 | 2.5 |
| 4/21/2015 | 16:39:58 | 56.43 | 50.83 | 47 | 2.71 | 0.38 | 2.6 |
| 4/21/2015 | 16:40:04 | 56.66 | 51.06 | 46 | 2.92 | 0.40 | 2.5 |

## E228 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 16:36:52

**End Date:**
4/21/2015 16:41:17

**Operator Note:**
'5.6 '5.9 5.7 b Auto Complete'

**Northing:**
367,800.01

**Easting:**
253,260.79

**Tide (feet):**
5.60



## Hole: E229 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 16:44:07 | 35.76 | 30.16 | 1,032 | 0.29 | 0.32 | 56.5 |
| 4/21/2015 16:44:07 | 36.09 | 30.49 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 16:44:08 | 36.42 | 30.82 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/21/2015 16:44:08 | 36.75 | 31.15 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/21/2015 16:44:08 | 37.07 | 31.47 | 1,041 | 0.28 | 0.32 | 56.9 |
| 4/21/2015 16:44:09 | 37.40 | 31.80 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 16:44:09 | 37.73 | 32.13 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 16:44:09 | 38.06 | 32.46 | 1,035 | 0.29 | 0.33 | 56.6 |
| 4/21/2015 16:44:10 | 38.39 | 32.79 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 16:44:10 | 38.71 | 33.11 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 16:44:10 | 39.04 | 33.44 | 1,023 | 0.29 | 0.31 | 56.0 |
| 4/21/2015 16:44:11 | 39.37 | 33.77 | 1,025 | 0.29 | 0.31 | 56.1 |
| 4/21/2015 16:44:11 | 39.70 | 34.10 | 1,025 | 0.29 | 0.31 | 56.1 |
| 4/21/2015 16:44:11 | 40.03 | 34.43 | 1,034 | 0.29 | 0.31 | 56.6 |
| 4/21/2015 16:44:12 | 40.35 | 34.75 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 16:44:12 | 40.68 | 35.08 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 16:44:12 | 41.01 | 35.41 | 1,037 | 0.29 | 0.31 | 56.7 |
| 4/21/2015 16:44:13 | 41.34 | 35.74 | 1,048 | 0.29 | 0.32 | 57.3 |
| 4/21/2015 16:44:13 | 41.67 | 36.07 | 1,048 | 0.29 | 0.32 | 57.3 |
| 4/21/2015 16:44:14 | 41.99 | 36.39 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/21/2015 16:44:14 | 42.32 | 36.72 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/21/2015 16:44:14 | 42.65 | 37.05 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 16:44:15 | 42.98 | 37.38 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/21/2015 16:44:15 | 43.31 | 37.71 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/21/2015 16:44:15 | 43.64 | 38.04 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 16:44:16 | 43.96 | 38.36 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/21/2015 16:44:16 | 44.29 | 38.69 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/21/2015 16:44:16 | 44.62 | 39.02 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/21/2015 16:44:17 | 44.95 | 39.35 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 16:44:17 | 45.28 | 39.68 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/21/2015 16:44:17 | 45.60 | 40.00 | 1,026 | 0.29 | 0.33 | 56.1 |
| 4/21/2015 16:44:18 | 45.93 | 40.33 | 1,038 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 16:44:18 | 46.26 | 40.66 | 1,038 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 16:44:18 | 46.59 | 40.99 | 1,032 | 0.29 | 0.31 | 56.4 |
| 4/21/2015 16:44:19 | 46.92 | 41.32 | 1,041 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 16:44:19 | 47.24 | 41.64 | 1,041 | 0.29 | 0.31 | 57.0 |
| 4/21/2015 16:44:19 | 47.57 | 41.97 | 1,039 | 0.29 | 0.31 | 56.8 |
| 4/21/2015 16:44:20 | 47.90 | 42.30 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 16:44:20 | 48.23 | 42.63 | 1,051 | 0.29 | 0.31 | 57.5 |
| 4/21/2015 16:44:20 | 48.56 | 42.96 | 1,032 | 0.29 | 0.31 | 56.4 |
| 4/21/2015 16:44:21 | 48.88 | 43.28 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/21/2015 16:44:21 | 49.21 | 43.61 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/21/2015 16:44:21 | 49.54 | 43.94 | 1,038 | 0.29 | 0.32 | 56.8 |
| 4/21/2015 16:44:22 | 49.87 | 44.27 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 16:44:22 | 50.20 | 44.60 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/21/2015 16:44:22 | 50.53 | 44.93 | 1,032 | 0.29 | 0.32 | 56.4 |
| 4/21/2015 16:44:23 | 50.85 | 45.25 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/21/2015 16:44:23 | 51.18 | 45.58 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/21/2015 16:44:23 | 51.51 | 45.91 | 1,029 | 0.29 | 0.32 | 56.3 |
| 4/21/2015 16:44:24 | 51.84 | 46.24 | 1,026 | 0.29 | 0.32 | 56.1 |
| 4/21/2015 16:44:25 | 52.17 | 46.57 | 1,026 | 0.29 | 0.32 | 56.1 |
| 4/21/2015 16:44:25 | 52.49 | 46.89 | 1,023 | 0.29 | 0.32 | 56.0 |
| 4/21/2015 16:44:25 | 52.82 | 47.22 | 1,023 | 0.27 | 0.33 | 56.0 |
| 4/21/2015 16:44:26 | 53.15 | 47.55 | 991 | 0.27 | 0.36 | 54.2 |
| 4/21/2015 16:44:42 | 53.48 | 47.88 | 0 | 6.44 | 0.38 | 0.0 |
| 4/21/2015 16:44:43 | 53.81 | 48.21 | 87 | 2.61 | 0.37 | 4.8 |
| 4/21/2015 16:44:43 | 54.13 | 48.53 | 187 | 1.89 | 0.33 | 10.2 |
| 4/21/2015 16:44:44 | 54.46 | 48.86 | 336 | 2.39 | 0.37 | 18.4 |
| 4/21/2015 16:44:45 | 54.79 | 49.19 | 481 | 1.79 | 0.36 | 26.3 |
| 4/21/2015 16:44:46 | 55.12 | 49.52 | 520 | 1.82 | 0.37 | 28.4 |
| 4/21/2015 16:44:46 | 55.45 | 49.85 | 517 | 1.82 | 0.35 | 28.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 16:44:47 | 55.77 | 50.17 | 505 | 1.83 | 0.35 | 27.6 |
| 4/21/2015 | 16:44:47 | 56.10 | 50.50 | 558 | 1.85 | 0.35 | 30.5 |
| 4/21/2015 | 16:44:50 | 56.43 | 50.83 | 250 | 4.95 | 0.39 | 13.7 |
| 4/21/2015 | 16:45:05 | 56.76 | 51.16 | 21 | 3.07 | 0.38 | 1.1 |
| 4/21/2015 | 16:45:10 | 57.09 | 51.49 | 64 | 3.31 | 0.40 | 3.5 |
| 4/21/2015 | 16:45:15 | 57.41 | 51.81 | 69 | 3.18 | 0.39 | 3.8 |
| 4/21/2015 | 16:45:20 | 57.74 | 52.14 | 70 | 2.64 | 0.40 | 3.8 |
| 4/21/2015 | 16:45:28 | 58.07 | 52.47 | 49 | 2.68 | 0.40 | 2.7 |
| 4/21/2015 | 16:45:31 | 58.40 | 52.80 | 116 | 3.83 | 0.39 | 6.3 |
| 4/21/2015 | 16:45:35 | 58.73 | 53.13 | 78 | 3.38 | 0.40 | 4.3 |
| 4/21/2015 | 16:45:40 | 59.06 | 53.46 | 69 | 2.81 | 0.39 | 3.8 |
| 4/21/2015 | 16:45:44 | 59.38 | 53.78 | 89 | 3.13 | 0.39 | 4.9 |
| 4/21/2015 | 16:45:49 | 59.71 | 54.11 | 70 | 2.88 | 0.40 | 3.8 |
| 4/21/2015 | 16:45:54 | 60.04 | 54.44 | 69 | 2.92 | 0.40 | 3.8 |
| 4/21/2015 | 16:45:59 | 60.37 | 54.77 | 67 | 2.90 | 0.40 | 3.7 |
| 4/21/2015 | 16:46:03 | 60.70 | 55.10 | 98 | 3.01 | 0.38 | 5.4 |

## E229 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 16:42:46

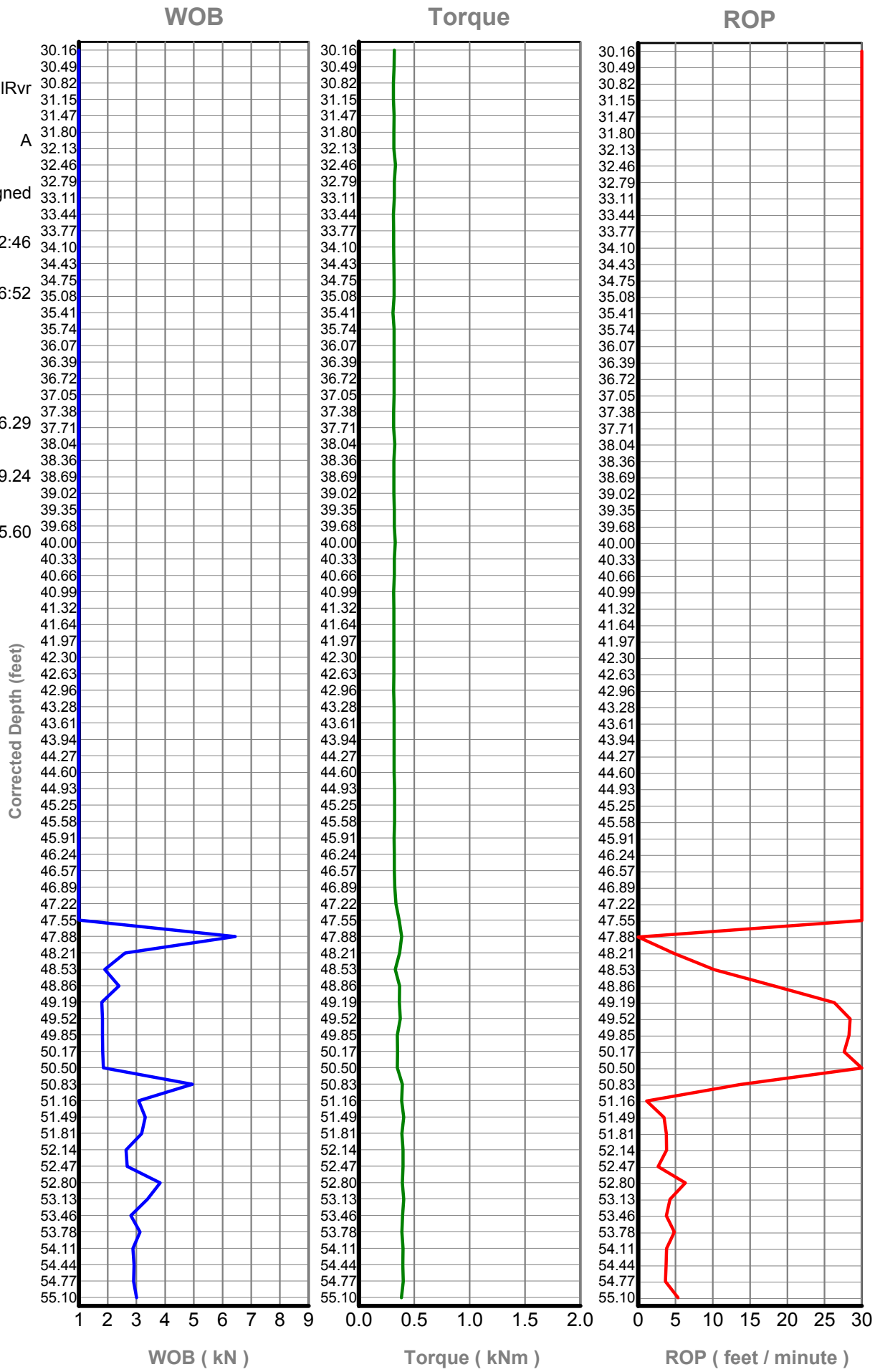
**End Date:**
4/21/2015 16:46:52

**Operator Note:**
'5.6 '5.8 5.6 b Auto Complete'

**Northing:**
367,846.29

**Easting:**
253,319.24

**Tide (feet):**
5.60



## Hole: E23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 0:08:48 | 35.76 | 30.16 | 913 | 1.93 | 0.22 | 49.9 |
| 4/20/2015 0:08:48 | 36.09 | 30.49 | 908 | 1.93 | 0.22 | 49.6 |
| 4/20/2015 0:08:49 | 36.42 | 30.82 | 913 | 1.93 | 0.22 | 49.9 |
| 4/20/2015 0:08:49 | 36.75 | 31.15 | 902 | 1.93 | 0.22 | 49.3 |
| 4/20/2015 0:08:50 | 37.07 | 31.47 | 902 | 1.93 | 0.22 | 49.3 |
| 4/20/2015 0:08:50 | 37.40 | 31.80 | 914 | 1.93 | 0.22 | 50.0 |
| 4/20/2015 0:08:50 | 37.73 | 32.13 | 914 | 1.93 | 0.22 | 50.0 |
| 4/20/2015 0:08:51 | 38.06 | 32.46 | 917 | 1.93 | 0.22 | 50.1 |
| 4/20/2015 0:08:51 | 38.39 | 32.79 | 917 | 1.93 | 0.22 | 50.1 |
| 4/20/2015 0:08:51 | 38.71 | 33.11 | 920 | 1.93 | 0.22 | 50.3 |
| 4/20/2015 0:08:52 | 39.04 | 33.44 | 925 | 1.93 | 0.22 | 50.6 |
| 4/20/2015 0:08:52 | 39.37 | 33.77 | 919 | 1.93 | 0.22 | 50.3 |
| 4/20/2015 0:08:53 | 39.70 | 34.10 | 919 | 1.93 | 0.22 | 50.3 |
| 4/20/2015 0:08:53 | 40.03 | 34.43 | 911 | 1.93 | 0.22 | 49.8 |
| 4/20/2015 0:08:53 | 40.35 | 34.75 | 913 | 1.93 | 0.22 | 49.9 |
| 4/20/2015 0:08:54 | 40.68 | 35.08 | 908 | 1.93 | 0.22 | 49.6 |
| 4/20/2015 0:08:54 | 41.01 | 35.41 | 908 | 1.93 | 0.22 | 49.6 |
| 4/20/2015 0:08:55 | 41.34 | 35.74 | 910 | 1.93 | 0.22 | 49.8 |
| 4/20/2015 0:08:55 | 41.67 | 36.07 | 899 | 1.93 | 0.22 | 49.2 |
| 4/20/2015 0:08:56 | 41.99 | 36.39 | 904 | 1.93 | 0.22 | 49.4 |
| 4/20/2015 0:08:56 | 42.32 | 36.72 | 904 | 1.93 | 0.22 | 49.4 |
| 4/20/2015 0:09:22 | 42.65 | 37.05 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 0:09:22 | 42.98 | 37.38 | 48 | 1.93 | 0.22 | 2.7 |
| 4/20/2015 0:09:23 | 43.31 | 37.71 | 266 | 1.93 | 0.22 | 14.6 |
| 4/20/2015 0:09:24 | 43.64 | 38.04 | 382 | 1.93 | 0.22 | 20.9 |
| 4/20/2015 0:09:26 | 43.96 | 38.36 | 266 | 1.93 | 0.22 | 14.5 |
| 4/20/2015 0:09:27 | 44.29 | 38.69 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 0:09:30 | 44.62 | 39.02 | 204 | 1.93 | 0.22 | 11.2 |
| 4/20/2015 0:09:33 | 44.95 | 39.35 | 122 | 1.93 | 0.22 | 6.7 |
| 4/20/2015 0:10:02 | 45.28 | 39.68 | 67 | 1.93 | 0.22 | 3.7 |
| 4/20/2015 0:10:03 | 45.60 | 40.00 | 208 | 1.93 | 0.22 | 11.4 |
| 4/20/2015 0:10:05 | 45.93 | 40.33 | 268 | 1.93 | 0.22 | 14.6 |
| 4/20/2015 0:10:06 | 46.26 | 40.66 | 312 | 1.93 | 0.22 | 17.0 |
| 4/20/2015 0:10:06 | 46.59 | 40.99 | 369 | 1.93 | 0.22 | 20.2 |
| 4/20/2015 0:10:07 | 46.92 | 41.32 | 427 | 1.93 | 0.22 | 23.3 |
| 4/20/2015 0:10:08 | 47.24 | 41.64 | 484 | 1.93 | 0.22 | 26.5 |
| 4/20/2015 0:10:08 | 47.57 | 41.97 | 521 | 1.93 | 0.22 | 28.5 |
| 4/20/2015 0:10:09 | 47.90 | 42.30 | 513 | 1.93 | 0.22 | 28.1 |
| 4/20/2015 0:10:10 | 48.23 | 42.63 | 502 | 1.93 | 0.22 | 27.5 |
| 4/20/2015 0:10:10 | 48.56 | 42.96 | 480 | 1.93 | 0.22 | 26.2 |
| 4/20/2015 0:10:11 | 48.88 | 43.28 | 506 | 1.93 | 0.22 | 27.7 |
| 4/20/2015 0:10:12 | 49.21 | 43.61 | 518 | 1.93 | 0.22 | 28.3 |
| 4/20/2015 0:10:12 | 49.54 | 43.94 | 521 | 1.93 | 0.22 | 28.5 |
| 4/20/2015 0:10:13 | 49.87 | 44.27 | 515 | 1.93 | 0.22 | 28.2 |
| 4/20/2015 0:10:14 | 50.20 | 44.60 | 509 | 1.93 | 0.22 | 27.8 |
| 4/20/2015 0:10:14 | 50.53 | 44.93 | 515 | 1.93 | 0.22 | 28.2 |
| 4/20/2015 0:10:15 | 50.85 | 45.25 | 526 | 1.93 | 0.22 | 28.8 |
| 4/20/2015 0:10:16 | 51.18 | 45.58 | 538 | 1.93 | 0.22 | 29.4 |
| 4/20/2015 0:10:17 | 51.51 | 45.91 | 547 | 1.93 | 0.22 | 29.9 |
| 4/20/2015 0:10:17 | 51.84 | 46.24 | 538 | 1.93 | 0.22 | 29.4 |
| 4/20/2015 0:10:18 | 52.17 | 46.57 | 518 | 1.93 | 0.22 | 28.3 |
| 4/20/2015 0:10:19 | 52.49 | 46.89 | 503 | 1.93 | 0.22 | 27.5 |
| 4/20/2015 0:10:21 | 52.82 | 47.22 | 296 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 0:10:50 | 53.15 | 47.55 | 38 | 1.93 | 0.22 | 2.1 |
| 4/20/2015 0:10:57 | 53.48 | 47.88 | 53 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 0:11:02 | 53.81 | 48.21 | 61 | 1.93 | 0.22 | 3.3 |
| 4/20/2015 0:11:09 | 54.13 | 48.53 | 35 | 1.93 | 0.22 | 1.9 |
| 4/20/2015 0:11:20 | 54.46 | 48.86 | 32 | 1.93 | 0.22 | 1.7 |
| 4/20/2015 0:11:29 | 54.79 | 49.19 | 35 | 1.93 | 0.22 | 1.9 |
| 4/20/2015 0:11:40 | 55.12 | 49.52 | 38 | 1.93 | 0.22 | 2.1 |
| 4/20/2015 0:11:48 | 55.45 | 49.85 | 44 | 1.93 | 0.22 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 0:11:56 | 55.74 | 50.14 | 40 | 1.93 | 0.22 | 2.2 |

## E23 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 0:04:34

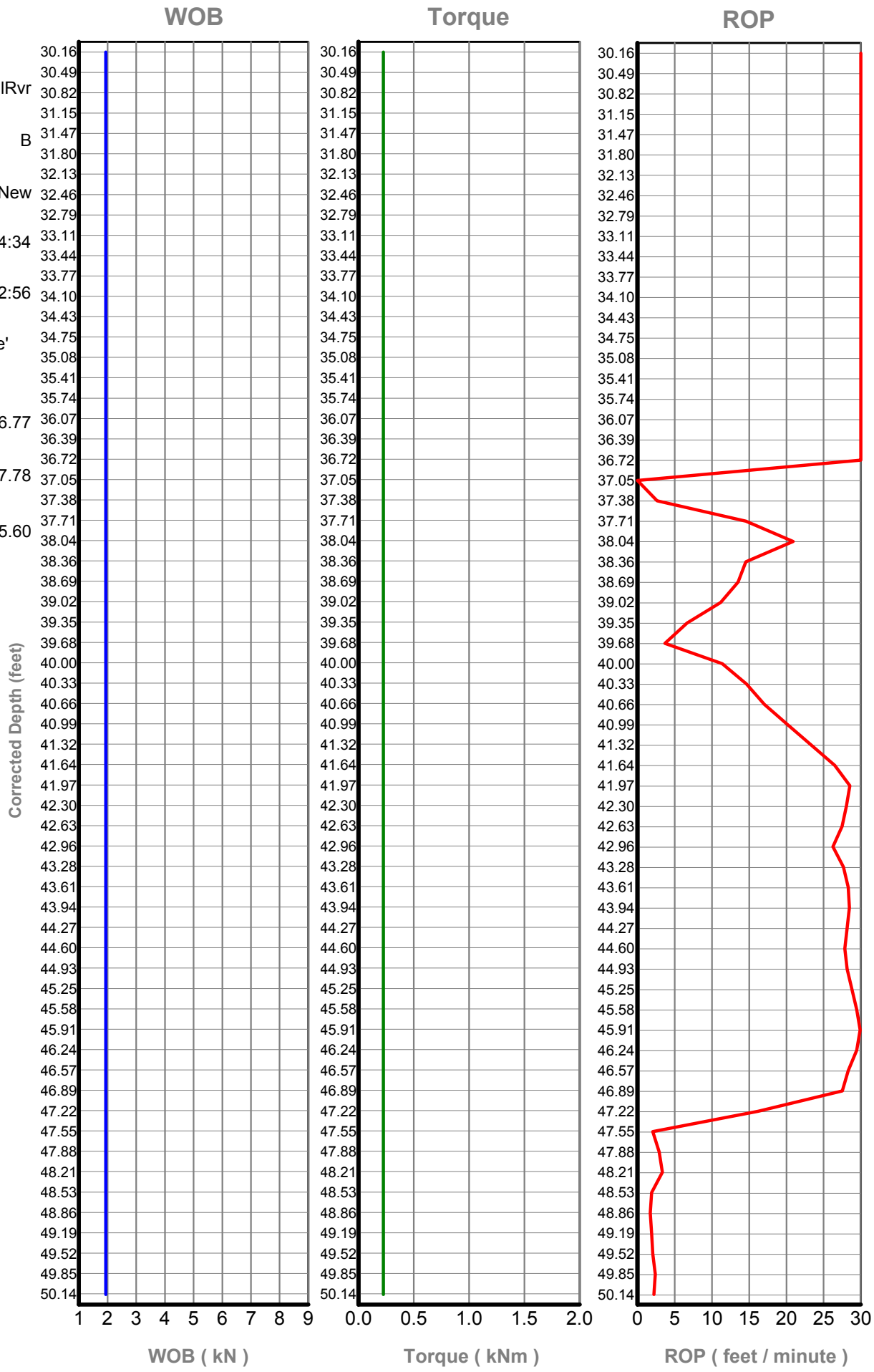
**End Date:**
4/20/2015 0:12:56

**Operator Note:**
'5.6 4.7 b Auto Complete'

**Northing:**
369,206.77

**Easting:**
253,567.78

**Tide (feet):**
5.60



## Hole: E230 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 14:49:03 | 36.09 | 30.09 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 14:49:04 | 36.42 | 30.42 | 1,077 | 1.73 | 0.21 | 58.9 |
| 4/21/2015 14:49:04 | 36.75 | 30.75 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:04 | 37.07 | 31.07 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:05 | 37.40 | 31.40 | 1,080 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:05 | 37.73 | 31.73 | 1,085 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 14:49:05 | 38.06 | 32.06 | 1,078 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:06 | 38.39 | 32.39 | 1,078 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:06 | 38.71 | 32.71 | 1,075 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 14:49:06 | 39.04 | 33.04 | 1,075 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 14:49:06 | 39.37 | 33.37 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 14:49:07 | 39.70 | 33.70 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 14:49:07 | 40.03 | 34.03 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 14:49:07 | 40.35 | 34.35 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 14:49:08 | 40.68 | 34.68 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 14:49:08 | 41.01 | 35.01 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 14:49:08 | 41.34 | 35.34 | 1,062 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 14:49:09 | 41.67 | 35.67 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:09 | 41.99 | 35.99 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:09 | 42.32 | 36.32 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:10 | 42.65 | 36.65 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 14:49:10 | 42.98 | 36.98 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 14:49:10 | 43.31 | 37.31 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 14:49:11 | 43.64 | 37.64 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 14:49:11 | 43.96 | 37.96 | 1,079 | 1.73 | 0.21 | 59.0 |
| 4/21/2015 14:49:11 | 44.29 | 38.29 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 14:49:12 | 44.62 | 38.62 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 14:49:12 | 44.95 | 38.95 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 14:49:12 | 45.28 | 39.28 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 14:49:13 | 45.60 | 39.60 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 14:49:13 | 45.93 | 39.93 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:14 | 46.26 | 40.26 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:14 | 46.59 | 40.59 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:14 | 46.92 | 40.92 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 14:49:15 | 47.24 | 41.24 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 14:49:15 | 47.57 | 41.57 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 14:49:15 | 47.90 | 41.90 | 1,071 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 14:49:16 | 48.23 | 42.23 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:16 | 48.56 | 42.56 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:16 | 48.88 | 42.88 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:17 | 49.21 | 43.21 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:17 | 49.54 | 43.54 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 14:49:17 | 49.87 | 43.87 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:18 | 50.20 | 44.20 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:18 | 50.53 | 44.53 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 14:49:18 | 50.85 | 44.85 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:19 | 51.18 | 45.18 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 14:49:19 | 51.51 | 45.51 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 14:49:19 | 51.84 | 45.84 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 14:49:20 | 52.17 | 46.17 | 974 | 1.73 | 0.21 | 53.2 |
| 4/21/2015 14:49:34 | 52.49 | 46.49 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 14:49:34 | 52.82 | 46.82 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 14:49:34 | 53.15 | 47.15 | 202 | 1.73 | 0.21 | 11.1 |
| 4/21/2015 14:49:35 | 53.48 | 47.48 | 377 | 1.73 | 0.21 | 20.6 |
| 4/21/2015 14:49:36 | 53.81 | 47.81 | 553 | 1.73 | 0.21 | 30.2 |
| 4/21/2015 14:49:36 | 54.13 | 48.13 | 553 | 1.73 | 0.21 | 30.2 |
| 4/21/2015 14:49:36 | 54.46 | 48.46 | 722 | 1.73 | 0.21 | 39.5 |
| 4/21/2015 14:49:37 | 54.79 | 48.79 | 893 | 1.73 | 0.21 | 48.9 |
| 4/21/2015 14:49:37 | 55.12 | 49.12 | 891 | 1.73 | 0.21 | 48.7 |
| 4/21/2015 14:49:38 | 55.45 | 49.45 | 891 | 1.73 | 0.21 | 48.7 |
| 4/21/2015 14:49:38 | 55.77 | 49.77 | 902 | 1.73 | 0.21 | 49.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 14:49:38 | 56.10 | 50.10 | 903 | 1.73 | 0.21 | 49.4 |
| 4/21/2015 | 14:49:39 | 56.43 | 50.43 | 907 | 1.73 | 0.21 | 49.6 |
| 4/21/2015 | 14:49:39 | 56.76 | 50.76 | 887 | 1.73 | 0.21 | 48.5 |
| 4/21/2015 | 14:49:40 | 57.09 | 51.09 | 887 | 1.73 | 0.21 | 48.5 |
| 4/21/2015 | 14:49:51 | 57.41 | 51.41 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 14:49:59 | 57.74 | 51.74 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 | 14:50:06 | 58.07 | 52.07 | 47 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 | 14:50:12 | 58.40 | 52.40 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 14:50:19 | 58.73 | 52.73 | 52 | 1.73 | 0.21 | 2.9 |

## E230 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 14:47:51

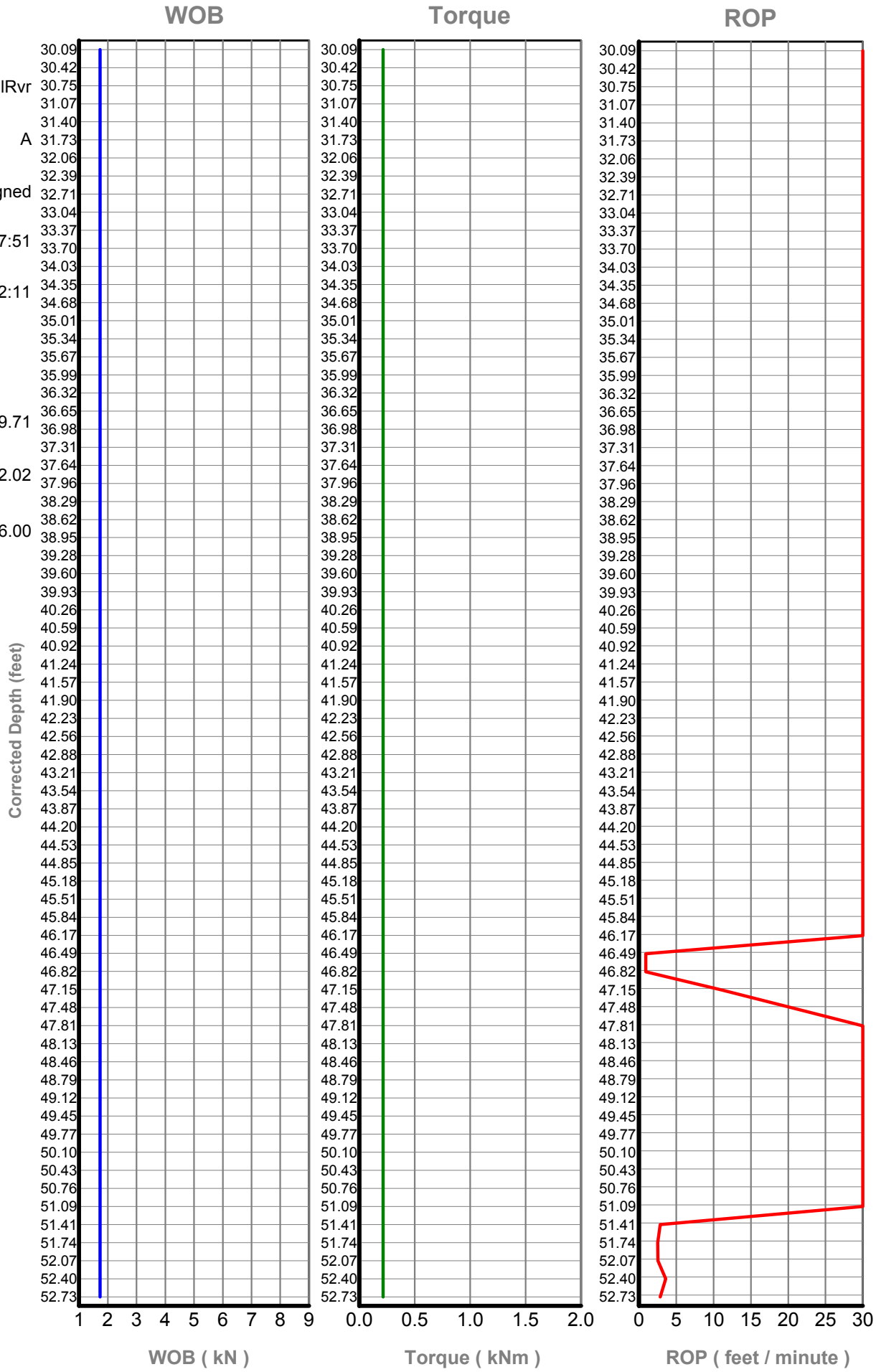
**End Date:**
4/21/2015 14:52:11

**Operator Note:**
'6 5.9 b Rock'

**Northing:**
367,909.71

**Easting:**
253,392.02

**Tide (feet):**
6.00



## Hole: E231 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 14:43:53 | 36.09 | 30.19 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 14:43:53 | 36.42 | 30.52 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 14:43:54 | 36.75 | 30.85 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 14:43:54 | 37.07 | 31.17 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 14:43:54 | 37.40 | 31.50 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 14:43:55 | 37.73 | 31.83 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 14:43:55 | 38.06 | 32.16 | 1,018 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 14:43:55 | 38.39 | 32.49 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:43:56 | 38.71 | 32.81 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:43:56 | 39.04 | 33.14 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:43:56 | 39.37 | 33.47 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:43:57 | 39.70 | 33.80 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:43:57 | 40.03 | 34.13 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:43:57 | 40.35 | 34.45 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:43:58 | 40.68 | 34.78 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:43:58 | 41.01 | 35.11 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:43:58 | 41.34 | 35.44 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:43:59 | 41.67 | 35.77 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:43:59 | 41.99 | 36.09 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:43:59 | 42.32 | 36.42 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:44:00 | 42.65 | 36.75 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:44:00 | 42.98 | 37.08 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:44:00 | 43.31 | 37.41 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:44:01 | 43.64 | 37.74 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:44:01 | 43.96 | 38.06 | 1,038 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:44:01 | 44.29 | 38.39 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:44:02 | 44.62 | 38.72 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:44:02 | 44.95 | 39.05 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:44:02 | 45.28 | 39.38 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 14:44:03 | 45.60 | 39.70 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:44:03 | 45.93 | 40.03 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:44:03 | 46.26 | 40.36 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:44:04 | 46.59 | 40.69 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:05 | 46.92 | 41.02 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:05 | 47.24 | 41.34 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:44:05 | 47.57 | 41.67 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:06 | 47.90 | 42.00 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:06 | 48.23 | 42.33 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:44:06 | 48.56 | 42.66 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:44:07 | 48.88 | 42.98 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:44:07 | 49.21 | 43.31 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:44:07 | 49.54 | 43.64 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:08 | 49.87 | 43.97 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:08 | 50.20 | 44.30 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:44:08 | 50.53 | 44.63 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:44:09 | 50.85 | 44.95 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 14:44:09 | 51.18 | 45.28 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 14:44:09 | 51.51 | 45.61 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:44:10 | 51.84 | 45.94 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 14:44:33 | 52.17 | 46.27 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 14:44:33 | 52.49 | 46.59 | 127 | 1.73 | 0.21 | 6.9 |
| 4/21/2015 14:44:34 | 52.82 | 46.92 | 295 | 1.73 | 0.21 | 16.1 |
| 4/21/2015 14:44:34 | 53.15 | 47.25 | 448 | 1.73 | 0.21 | 24.5 |
| 4/21/2015 14:44:35 | 53.48 | 47.58 | 609 | 1.73 | 0.21 | 33.3 |
| 4/21/2015 14:44:35 | 53.81 | 47.91 | 609 | 1.73 | 0.21 | 33.3 |
| 4/21/2015 14:44:35 | 54.13 | 48.23 | 773 | 1.73 | 0.21 | 42.3 |
| 4/21/2015 14:44:36 | 54.46 | 48.56 | 801 | 1.73 | 0.21 | 43.8 |
| 4/21/2015 14:44:36 | 54.79 | 48.89 | 800 | 1.73 | 0.21 | 43.7 |
| 4/21/2015 14:44:37 | 55.12 | 49.22 | 805 | 1.73 | 0.21 | 44.0 |
| 4/21/2015 14:44:37 | 55.45 | 49.55 | 785 | 1.73 | 0.21 | 42.9 |
| 4/21/2015 14:44:38 | 55.77 | 49.87 | 788 | 1.73 | 0.21 | 43.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 14:44:39 | 56.10 | 50.20 | 788 | 1.73 | 0.21 | 43.1 |
| 4/21/2015 | 14:44:39 | 56.43 | 50.53 | 794 | 1.73 | 0.21 | 43.4 |
| 4/21/2015 | 14:44:39 | 56.76 | 50.86 | 791 | 1.73 | 0.21 | 43.3 |
| 4/21/2015 | 14:44:40 | 57.09 | 51.19 | 791 | 1.73 | 0.21 | 43.3 |
| 4/21/2015 | 14:44:40 | 57.41 | 51.51 | 814 | 1.73 | 0.21 | 44.5 |
| 4/21/2015 | 14:44:41 | 57.74 | 51.84 | 807 | 1.73 | 0.21 | 44.1 |
| 4/21/2015 | 14:44:41 | 58.07 | 52.17 | 812 | 1.73 | 0.21 | 44.4 |
| 4/21/2015 | 14:44:42 | 58.40 | 52.50 | 812 | 1.73 | 0.21 | 44.4 |
| 4/21/2015 | 14:44:42 | 58.73 | 52.83 | 769 | 1.73 | 0.21 | 42.0 |
| 4/21/2015 | 14:44:43 | 59.06 | 53.16 | 730 | 1.73 | 0.21 | 39.9 |
| 4/21/2015 | 14:44:47 | 59.38 | 53.48 | 31 | 1.73 | 0.21 | 1.7 |
| 4/21/2015 | 14:44:55 | 59.71 | 53.81 | 60 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 14:45:03 | 60.04 | 54.14 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 | 14:45:10 | 60.37 | 54.47 | 50 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 | 14:45:12 | 60.48 | 54.58 | 53 | 1.73 | 0.21 | 2.9 |

## E231 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 14:42:44

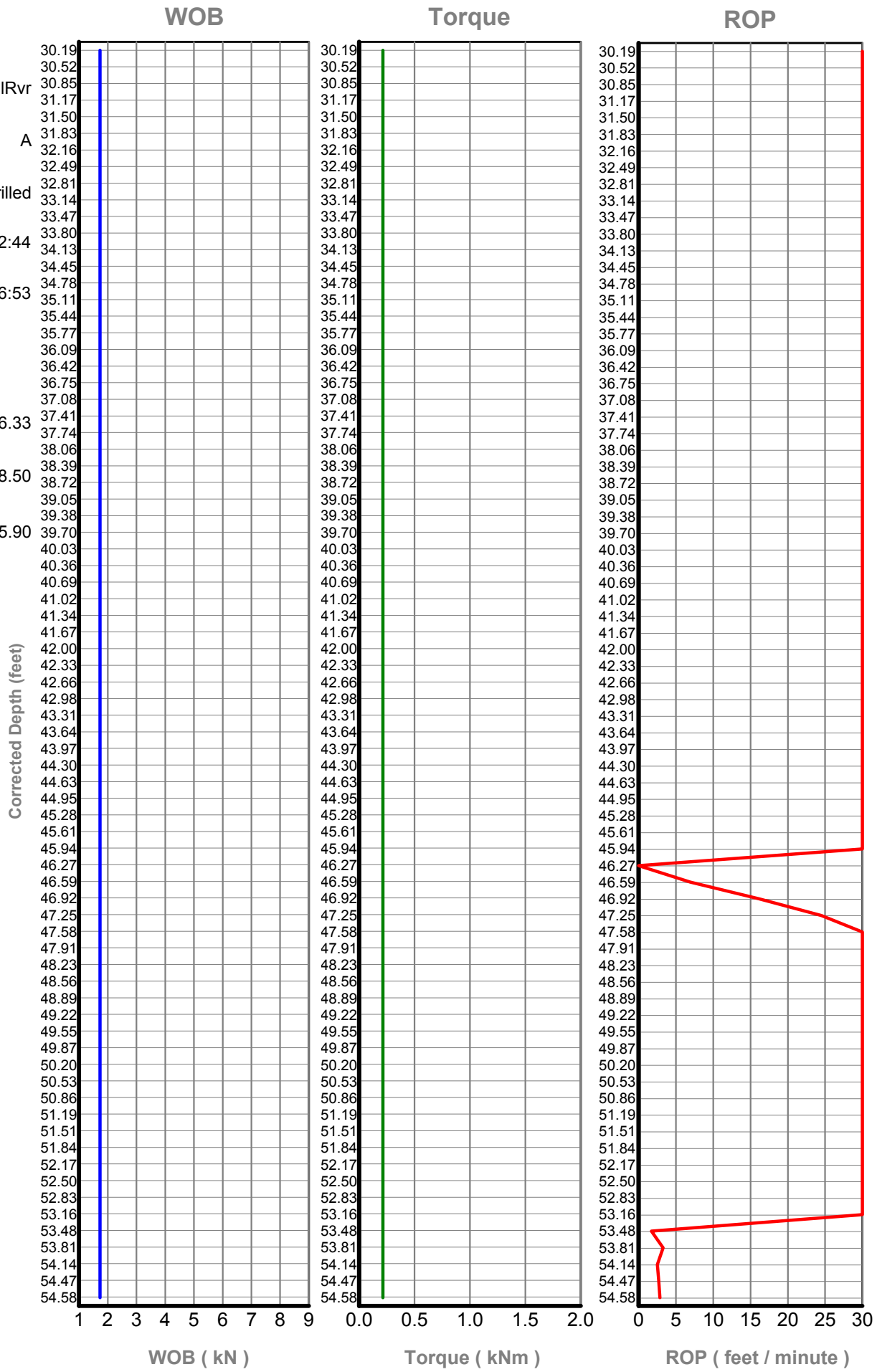
**End Date:**
4/21/2015 14:46:53

**Operator Note:**
'5.9 5.9 b Rock'

**Northing:**
367,946.33

**Easting:**
253,438.50

**Tide (feet):**
5.90



## Hole: E232 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 14:37:47 | 36.09 | 30.29 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:47 | 36.42 | 30.62 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:47 | 36.75 | 30.95 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:48 | 37.07 | 31.27 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:48 | 37.40 | 31.60 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 14:37:48 | 37.73 | 31.93 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 14:37:49 | 38.06 | 32.26 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 14:37:49 | 38.39 | 32.59 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 14:37:49 | 38.71 | 32.91 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:37:50 | 39.04 | 33.24 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:37:50 | 39.37 | 33.57 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:37:50 | 39.70 | 33.90 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:37:51 | 40.03 | 34.23 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:37:51 | 40.35 | 34.55 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:37:51 | 40.68 | 34.88 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:52 | 41.01 | 35.21 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:52 | 41.34 | 35.54 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 14:37:52 | 41.67 | 35.87 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:37:53 | 41.99 | 36.19 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 14:37:53 | 42.32 | 36.52 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 14:37:53 | 42.65 | 36.85 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 14:37:54 | 42.98 | 37.18 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 14:37:54 | 43.31 | 37.51 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 14:37:55 | 43.64 | 37.84 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:37:55 | 43.96 | 38.16 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 14:37:55 | 44.29 | 38.49 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 14:37:56 | 44.62 | 38.82 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:37:56 | 44.95 | 39.15 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 14:37:56 | 45.28 | 39.48 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 14:37:57 | 45.60 | 39.80 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:57 | 45.93 | 40.13 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 14:37:57 | 46.26 | 40.46 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 14:37:58 | 46.59 | 40.79 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:58 | 46.92 | 41.12 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:58 | 47.24 | 41.44 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:59 | 47.57 | 41.77 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 14:37:59 | 47.90 | 42.10 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 14:37:59 | 48.23 | 42.43 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 14:38:00 | 48.56 | 42.76 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 14:38:00 | 48.88 | 43.08 | 1,066 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 14:38:00 | 49.21 | 43.41 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 14:38:01 | 49.54 | 43.74 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 14:38:01 | 49.87 | 44.07 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 14:38:01 | 50.20 | 44.40 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 14:38:02 | 50.53 | 44.73 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 14:38:02 | 50.85 | 45.05 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 14:38:02 | 51.18 | 45.38 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 14:38:11 | 51.51 | 45.71 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 14:38:11 | 51.84 | 46.04 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 14:38:11 | 52.17 | 46.37 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 14:38:12 | 52.49 | 46.69 | 417 | 1.73 | 0.21 | 22.8 |
| 4/21/2015 14:38:12 | 52.82 | 47.02 | 583 | 1.73 | 0.21 | 31.9 |
| 4/21/2015 14:38:13 | 53.15 | 47.35 | 734 | 1.73 | 0.21 | 40.1 |
| 4/21/2015 14:38:13 | 53.48 | 47.68 | 734 | 1.73 | 0.21 | 40.1 |
| 4/21/2015 14:38:13 | 53.81 | 48.01 | 875 | 1.73 | 0.21 | 47.9 |
| 4/21/2015 14:38:14 | 54.13 | 48.33 | 866 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 14:38:14 | 54.46 | 48.66 | 856 | 1.73 | 0.21 | 46.8 |
| 4/21/2015 14:38:15 | 54.79 | 48.99 | 856 | 1.73 | 0.21 | 46.8 |
| 4/21/2015 14:38:15 | 55.12 | 49.32 | 873 | 1.73 | 0.21 | 47.7 |
| 4/21/2015 14:38:15 | 55.45 | 49.65 | 876 | 1.73 | 0.21 | 47.9 |
| 4/21/2015 14:38:16 | 55.77 | 49.97 | 876 | 1.73 | 0.21 | 47.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 14:38:16 | 56.10 | 50.30 | 873 | 1.73 | 0.21 | 47.7 |
| 4/21/2015 | 14:38:17 | 56.43 | 50.63 | 873 | 1.73 | 0.21 | 47.7 |
| 4/21/2015 | 14:38:17 | 56.76 | 50.96 | 883 | 1.73 | 0.21 | 48.3 |
| 4/21/2015 | 14:38:17 | 57.09 | 51.29 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 14:38:18 | 57.41 | 51.61 | 866 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 14:38:19 | 57.74 | 51.94 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 14:38:19 | 58.07 | 52.27 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 14:38:19 | 58.40 | 52.60 | 867 | 1.73 | 0.21 | 47.4 |
| 4/21/2015 | 14:38:20 | 58.73 | 52.93 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 14:38:20 | 59.06 | 53.26 | 864 | 1.73 | 0.21 | 47.2 |
| 4/21/2015 | 14:38:21 | 59.38 | 53.58 | 856 | 1.73 | 0.21 | 46.8 |
| 4/21/2015 | 14:38:21 | 59.71 | 53.91 | 856 | 1.73 | 0.21 | 46.8 |
| 4/21/2015 | 14:38:21 | 60.04 | 54.24 | 855 | 1.73 | 0.21 | 46.7 |
| 4/21/2015 | 14:38:22 | 60.37 | 54.57 | 823 | 1.73 | 0.21 | 45.0 |
| 4/21/2015 | 14:38:22 | 60.70 | 54.90 | 803 | 1.73 | 0.21 | 43.9 |
| 4/21/2015 | 14:38:23 | 61.02 | 55.22 | 780 | 1.73 | 0.21 | 42.6 |
| 4/21/2015 | 14:38:23 | 61.08 | 55.28 | 780 | 1.73 | 0.21 | 42.6 |

## E232 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 14:35:53

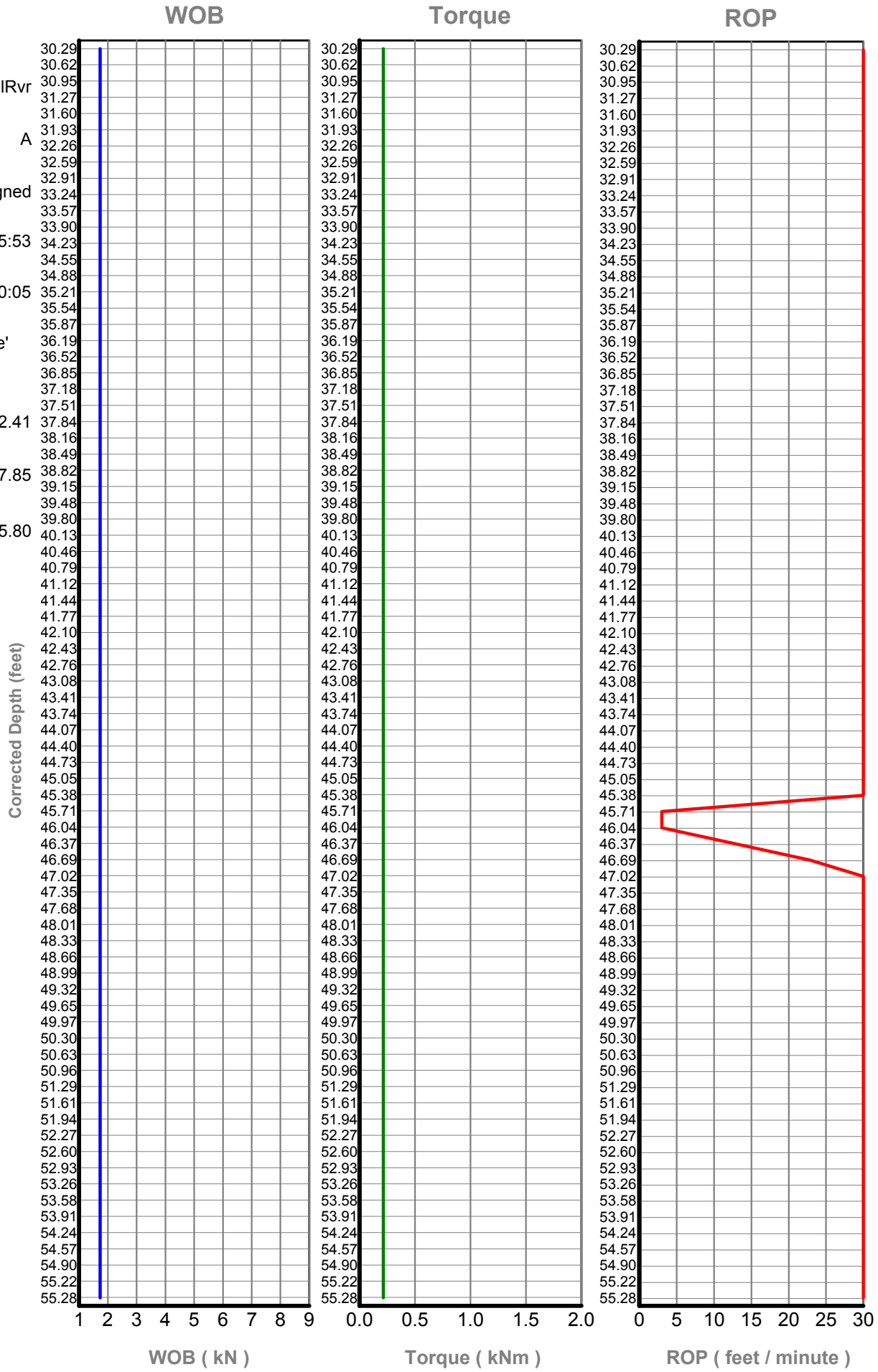
**End Date:**
4/21/2015 14:40:05

**Operator Note:**
'5.8 5.7 b Auto Complete'

**Northing:**
367,992.41

**Easting:**
253,497.85

**Tide (feet):**
5.80



## Hole: E233 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:46:17 | 36.42 | 30.22 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 15:46:18 | 36.75 | 30.55 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 15:46:18 | 37.07 | 30.87 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 15:46:19 | 37.40 | 31.20 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 15:46:19 | 37.73 | 31.53 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 15:46:19 | 38.06 | 31.86 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:20 | 38.39 | 32.19 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:20 | 38.71 | 32.51 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:20 | 39.04 | 32.84 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:21 | 39.37 | 33.17 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:21 | 39.70 | 33.50 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:21 | 40.03 | 33.83 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:46:22 | 40.35 | 34.15 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:46:22 | 40.68 | 34.48 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:46:22 | 41.01 | 34.81 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:23 | 41.34 | 35.14 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:23 | 41.67 | 35.47 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:46:23 | 41.99 | 35.79 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 15:46:24 | 42.32 | 36.12 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 15:46:24 | 42.65 | 36.45 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:46:24 | 42.98 | 36.78 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:46:25 | 43.31 | 37.11 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:46:25 | 43.64 | 37.44 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 15:46:25 | 43.96 | 37.76 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:46:26 | 44.29 | 38.09 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:46:26 | 44.62 | 38.42 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:26 | 44.95 | 38.75 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:27 | 45.28 | 39.08 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:27 | 45.60 | 39.40 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:27 | 45.93 | 39.73 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:28 | 46.26 | 40.06 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:28 | 46.59 | 40.39 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:28 | 46.92 | 40.72 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:29 | 47.24 | 41.04 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:29 | 47.57 | 41.37 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:46:30 | 47.90 | 41.70 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:46:29 | 48.23 | 42.03 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:46:30 | 48.56 | 42.36 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:46:31 | 48.88 | 42.68 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:46:31 | 49.21 | 43.01 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:31 | 49.54 | 43.34 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:32 | 49.87 | 43.67 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:46:32 | 50.20 | 44.00 | 1,069 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:46:32 | 50.53 | 44.33 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 15:46:33 | 50.85 | 44.65 | 1,072 | 1.73 | 0.21 | 58.6 |
| 4/21/2015 15:46:33 | 51.18 | 44.98 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:46:33 | 51.51 | 45.31 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:46:33 | 51.84 | 45.64 | 1,075 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 15:46:34 | 52.17 | 45.97 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 15:46:34 | 52.49 | 46.29 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 15:46:34 | 52.82 | 46.62 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 15:46:35 | 53.15 | 46.95 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 15:46:35 | 53.48 | 47.28 | 1,073 | 1.73 | 0.21 | 58.7 |
| 4/21/2015 15:46:35 | 53.81 | 47.61 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:46:36 | 54.13 | 47.93 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:46:36 | 54.46 | 48.26 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:46:45 | 54.79 | 48.59 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 15:46:49 | 55.12 | 48.92 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 15:46:50 | 55.45 | 49.25 | 195 | 1.73 | 0.21 | 10.7 |
| 4/21/2015 15:46:51 | 55.77 | 49.57 | 361 | 1.73 | 0.21 | 19.7 |
| 4/21/2015 15:46:51 | 56.10 | 49.90 | 390 | 1.73 | 0.21 | 21.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:46:52 | 56.43 | 50.23 | 427 | 1.73 | 0.21 | 23.4 |
| 4/21/2015 | 15:46:52 | 56.76 | 50.56 | 489 | 1.73 | 0.21 | 26.7 |
| 4/21/2015 | 15:46:54 | 57.09 | 50.89 | 579 | 1.73 | 0.21 | 31.6 |
| 4/21/2015 | 15:46:54 | 57.41 | 51.21 | 598 | 1.73 | 0.21 | 32.7 |
| 4/21/2015 | 15:46:55 | 57.74 | 51.54 | 598 | 1.73 | 0.21 | 32.7 |
| 4/21/2015 | 15:46:55 | 58.07 | 51.87 | 629 | 1.73 | 0.21 | 34.4 |
| 4/21/2015 | 15:46:56 | 58.40 | 52.20 | 627 | 1.73 | 0.21 | 34.3 |
| 4/21/2015 | 15:46:56 | 58.73 | 52.53 | 624 | 1.73 | 0.21 | 34.1 |
| 4/21/2015 | 15:46:57 | 59.06 | 52.86 | 624 | 1.73 | 0.21 | 34.1 |
| 4/21/2015 | 15:46:57 | 59.38 | 53.18 | 634 | 1.73 | 0.21 | 34.7 |
| 4/21/2015 | 15:46:58 | 59.71 | 53.51 | 632 | 1.73 | 0.21 | 34.6 |
| 4/21/2015 | 15:46:58 | 60.04 | 53.84 | 625 | 1.73 | 0.21 | 34.2 |
| 4/21/2015 | 15:46:59 | 60.37 | 54.17 | 619 | 1.73 | 0.21 | 33.9 |
| 4/21/2015 | 15:47:00 | 60.70 | 54.50 | 623 | 1.73 | 0.21 | 34.0 |
| 4/21/2015 | 15:47:00 | 61.02 | 54.82 | 616 | 1.73 | 0.21 | 33.7 |
| 4/21/2015 | 15:47:01 | 61.35 | 55.15 | 617 | 1.73 | 0.21 | 33.7 |
| 4/21/2015 | 15:47:01 | 61.68 | 55.48 | 613 | 1.73 | 0.21 | 33.5 |
| 4/21/2015 | 15:47:02 | 61.85 | 55.65 | 607 | 1.73 | 0.21 | 33.2 |

## E233 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:44:39

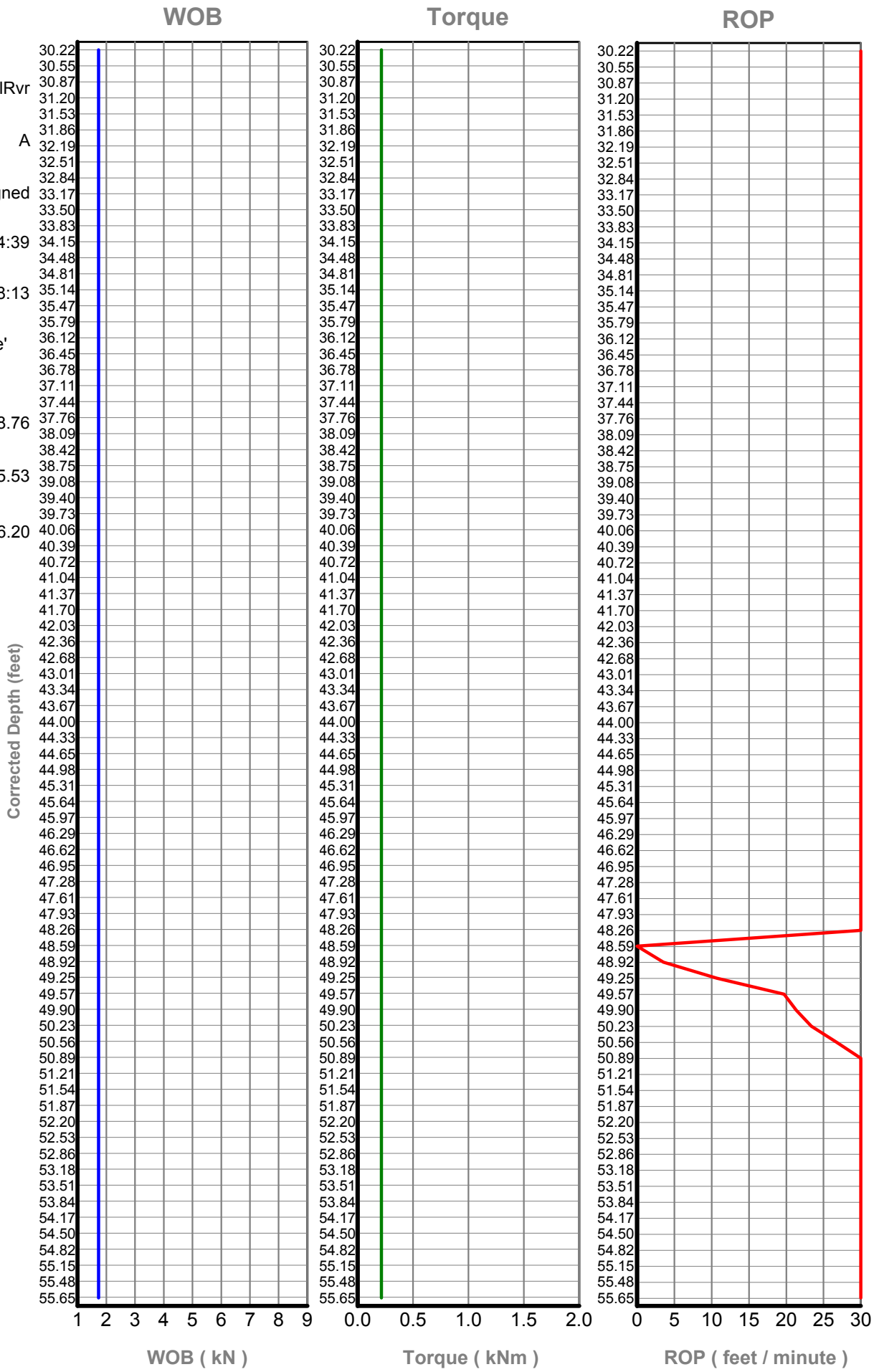
**End Date:**
4/21/2015 15:48:13

**Operator Note:**
'6.2 6,1 b Auto Complete'

**Northing:**
367,788.76

**Easting:**
253,365.53

**Tide (feet):**
6.20



## Hole: E234 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:03:10 | 36.42 | 30.32 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 15:03:11 | 36.75 | 30.65 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 15:03:11 | 37.07 | 30.97 | 191 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 15:03:12 | 37.40 | 31.30 | 382 | 1.73 | 0.21 | 20.9 |
| 4/21/2015 15:03:12 | 37.73 | 31.63 | 382 | 1.73 | 0.21 | 20.9 |
| 4/21/2015 15:03:12 | 38.06 | 31.96 | 585 | 1.73 | 0.21 | 32.0 |
| 4/21/2015 15:03:13 | 38.39 | 32.29 | 779 | 1.73 | 0.21 | 42.6 |
| 4/21/2015 15:03:13 | 38.71 | 32.61 | 779 | 1.73 | 0.21 | 42.6 |
| 4/21/2015 15:03:13 | 39.04 | 32.94 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 15:03:14 | 39.37 | 33.27 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 15:03:14 | 39.70 | 33.60 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 15:03:15 | 40.03 | 33.93 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 15:03:15 | 40.35 | 34.25 | 988 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 15:03:15 | 40.68 | 34.58 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 15:03:16 | 41.01 | 34.91 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 15:03:16 | 41.34 | 35.24 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 15:03:16 | 41.67 | 35.57 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 15:03:17 | 41.99 | 35.89 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 15:03:17 | 42.32 | 36.22 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 15:03:18 | 42.65 | 36.55 | 983 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 15:03:18 | 42.98 | 36.88 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 15:03:19 | 43.31 | 37.21 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 15:03:19 | 43.64 | 37.54 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 15:03:19 | 43.96 | 37.86 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 15:03:20 | 44.29 | 38.19 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 15:03:20 | 44.62 | 38.52 | 998 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 15:03:20 | 44.95 | 38.85 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:03:21 | 45.28 | 39.18 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:03:21 | 45.60 | 39.50 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 15:03:21 | 45.93 | 39.83 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 15:03:22 | 46.26 | 40.16 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 15:03:22 | 46.59 | 40.49 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 15:03:22 | 46.92 | 40.82 | 992 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 15:03:23 | 47.24 | 41.14 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 15:03:23 | 47.57 | 41.47 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 15:03:23 | 47.90 | 41.80 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 15:03:24 | 48.23 | 42.13 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:03:24 | 48.56 | 42.46 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:03:24 | 48.88 | 42.78 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 15:03:25 | 49.21 | 43.11 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 15:03:25 | 49.54 | 43.44 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 15:03:25 | 49.87 | 43.77 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 15:03:26 | 50.20 | 44.10 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:03:26 | 50.53 | 44.43 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 15:03:38 | 50.85 | 44.75 | 51 | 1.73 | 0.21 | 2.8 |
| 4/21/2015 15:03:39 | 51.18 | 45.08 | 172 | 1.73 | 0.21 | 9.4 |
| 4/21/2015 15:03:41 | 51.51 | 45.41 | 332 | 1.73 | 0.21 | 18.2 |
| 4/21/2015 15:03:45 | 51.84 | 45.74 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 15:03:46 | 52.17 | 46.07 | 148 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 15:03:47 | 52.49 | 46.39 | 325 | 1.73 | 0.21 | 17.7 |
| 4/21/2015 15:03:48 | 52.82 | 46.72 | 419 | 1.73 | 0.21 | 22.9 |
| 4/21/2015 15:03:48 | 53.15 | 47.05 | 515 | 1.73 | 0.21 | 28.2 |
| 4/21/2015 15:03:49 | 53.48 | 47.38 | 616 | 1.73 | 0.21 | 33.7 |
| 4/21/2015 15:03:49 | 53.81 | 47.71 | 666 | 1.73 | 0.21 | 36.4 |
| 4/21/2015 15:03:50 | 54.13 | 48.03 | 666 | 1.73 | 0.21 | 36.4 |
| 4/21/2015 15:03:50 | 54.46 | 48.36 | 682 | 1.73 | 0.21 | 37.3 |
| 4/21/2015 15:03:51 | 54.79 | 48.69 | 686 | 1.73 | 0.21 | 37.5 |
| 4/21/2015 15:03:51 | 55.12 | 49.02 | 694 | 1.73 | 0.21 | 38.0 |
| 4/21/2015 15:03:52 | 55.45 | 49.35 | 694 | 1.73 | 0.21 | 38.0 |
| 4/21/2015 15:03:52 | 55.77 | 49.67 | 699 | 1.73 | 0.21 | 38.2 |
| 4/21/2015 15:03:54 | 56.10 | 50.00 | 698 | 1.73 | 0.21 | 38.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:03:55 | 56.43 | 50.33 | 698 | 1.73 | 0.21 | 38.2 |
| 4/21/2015 | 15:03:54 | 56.76 | 50.66 | 683 | 1.73 | 0.21 | 37.3 |
| 4/21/2015 | 15:03:55 | 57.09 | 50.99 | 665 | 1.73 | 0.21 | 36.4 |
| 4/21/2015 | 15:03:55 | 57.41 | 51.31 | 632 | 1.73 | 0.21 | 34.6 |
| 4/21/2015 | 15:03:56 | 57.74 | 51.64 | 630 | 1.73 | 0.21 | 34.5 |
| 4/21/2015 | 15:03:56 | 58.07 | 51.97 | 626 | 1.73 | 0.21 | 34.2 |
| 4/21/2015 | 15:03:57 | 58.40 | 52.30 | 634 | 1.73 | 0.21 | 34.7 |
| 4/21/2015 | 15:03:57 | 58.73 | 52.63 | 642 | 1.73 | 0.21 | 35.1 |
| 4/21/2015 | 15:03:58 | 59.06 | 52.96 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:03:58 | 59.38 | 53.28 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:03:59 | 59.71 | 53.61 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:03:59 | 60.04 | 53.94 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:04:00 | 60.37 | 54.27 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:04:00 | 60.70 | 54.60 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:04:01 | 61.02 | 54.92 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:04:01 | 61.35 | 55.25 | 669 | 1.73 | 0.21 | 36.6 |
| 4/21/2015 | 15:04:02 | 61.41 | 55.31 | 666 | 1.73 | 0.21 | 36.4 |

## E234 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:00:31

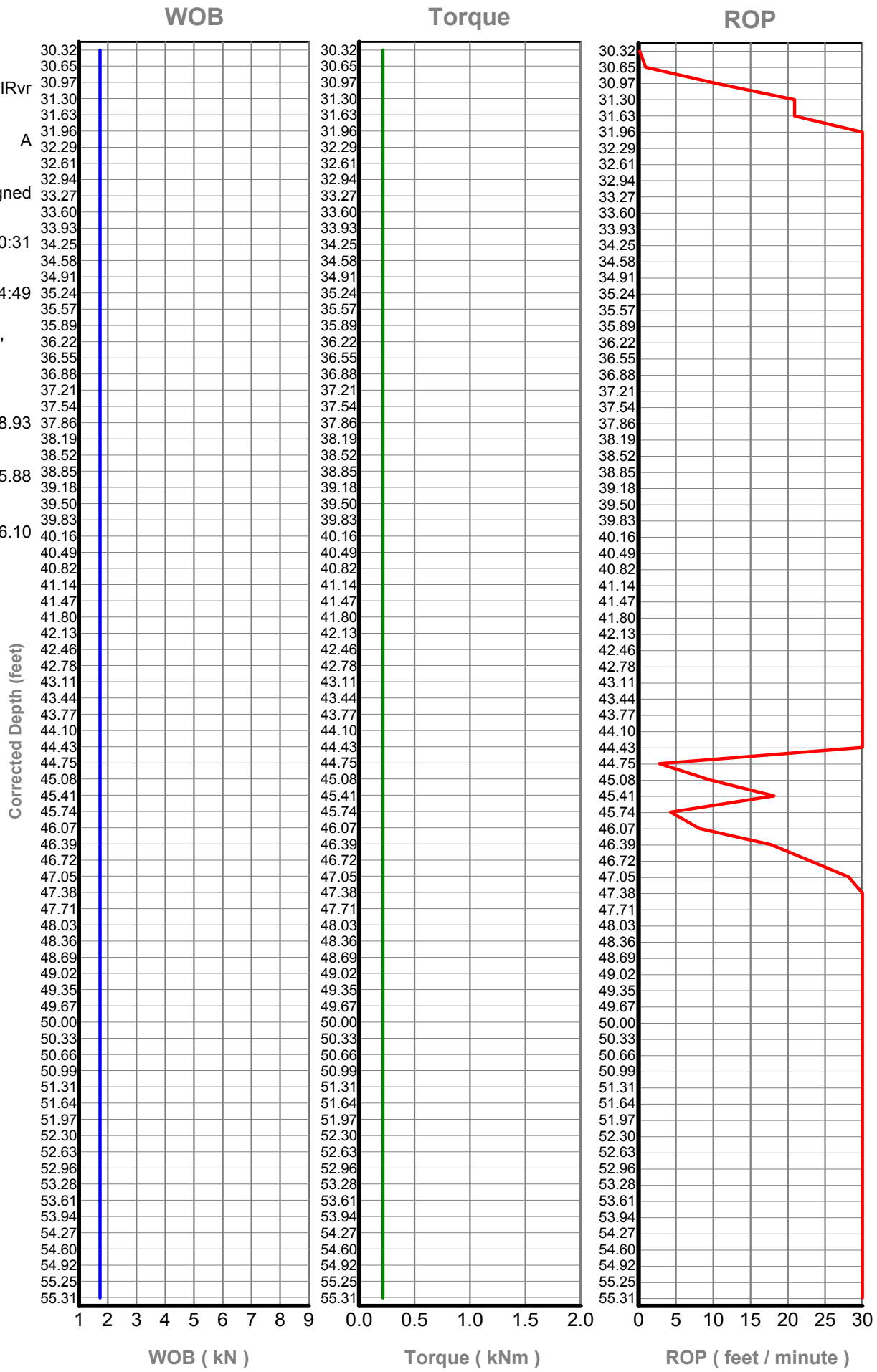
**End Date:**
4/21/2015 15:04:49

**Operator Note:**
'6.1 6.0b Auto Complete'

**Northing:**
367,848.93

**Easting:**
253,435.88

**Tide (feet):**
6.10



## Hole: E235 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:10:01 | 36.42 | 30.32 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:01 | 36.75 | 30.65 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:02 | 37.07 | 30.97 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:02 | 37.40 | 31.30 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:02 | 37.73 | 31.63 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:03 | 38.06 | 31.96 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:03 | 38.39 | 32.29 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:03 | 38.71 | 32.61 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:10:04 | 39.04 | 32.94 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:10:04 | 39.37 | 33.27 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:04 | 39.70 | 33.60 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:05 | 40.03 | 33.93 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:05 | 40.35 | 34.25 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:05 | 40.68 | 34.58 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:06 | 41.01 | 34.91 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:06 | 41.34 | 35.24 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:07 | 41.67 | 35.57 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:07 | 41.99 | 35.89 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:07 | 42.32 | 36.22 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:08 | 42.65 | 36.55 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:08 | 42.98 | 36.88 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:09 | 43.31 | 37.21 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:09 | 43.64 | 37.54 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:09 | 43.96 | 37.86 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:10 | 44.29 | 38.19 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:10:10 | 44.62 | 38.52 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:10 | 44.95 | 38.85 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:11 | 45.28 | 39.18 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:11 | 45.60 | 39.50 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 15:10:11 | 45.93 | 39.83 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:12 | 46.26 | 40.16 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:12 | 46.59 | 40.49 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 15:10:12 | 46.92 | 40.82 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:13 | 47.24 | 41.14 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:13 | 47.57 | 41.47 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:13 | 47.90 | 41.80 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:14 | 48.23 | 42.13 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:14 | 48.56 | 42.46 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:14 | 48.88 | 42.78 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:15 | 49.21 | 43.11 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:15 | 49.54 | 43.44 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:10:15 | 49.87 | 43.77 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:16 | 50.20 | 44.10 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:16 | 50.53 | 44.43 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:10:16 | 50.85 | 44.75 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:17 | 51.18 | 45.08 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:10:17 | 51.51 | 45.41 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 15:10:18 | 51.84 | 45.74 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 15:10:30 | 52.17 | 46.07 | 54 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 15:10:30 | 52.49 | 46.39 | 54 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 15:10:30 | 52.82 | 46.72 | 251 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 15:10:31 | 53.15 | 47.05 | 442 | 1.73 | 0.21 | 24.2 |
| 4/21/2015 15:10:32 | 53.48 | 47.38 | 595 | 1.73 | 0.21 | 32.6 |
| 4/21/2015 15:10:33 | 53.81 | 47.71 | 595 | 1.73 | 0.21 | 32.6 |
| 4/21/2015 15:10:33 | 54.13 | 48.03 | 560 | 1.73 | 0.21 | 30.6 |
| 4/21/2015 15:10:33 | 54.46 | 48.36 | 523 | 1.73 | 0.21 | 28.6 |
| 4/21/2015 15:10:34 | 54.79 | 48.69 | 591 | 1.73 | 0.21 | 32.3 |
| 4/21/2015 15:10:34 | 55.12 | 49.02 | 692 | 1.73 | 0.21 | 37.8 |
| 4/21/2015 15:10:35 | 55.45 | 49.35 | 777 | 1.73 | 0.21 | 42.5 |
| 4/21/2015 15:10:35 | 55.77 | 49.67 | 760 | 1.73 | 0.21 | 41.6 |
| 4/21/2015 15:10:36 | 56.10 | 50.00 | 762 | 1.73 | 0.21 | 41.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:10:36 | 56.43 | 50.33 | 755 | 1.73 | 0.21 | 41.3 |
| 4/21/2015 | 15:10:37 | 56.76 | 50.66 | 748 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 15:10:37 | 57.09 | 50.99 | 748 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 15:10:37 | 57.41 | 51.31 | 752 | 1.73 | 0.21 | 41.1 |
| 4/21/2015 | 15:10:38 | 57.74 | 51.64 | 759 | 1.73 | 0.21 | 41.5 |
| 4/21/2015 | 15:10:38 | 58.07 | 51.97 | 752 | 1.73 | 0.21 | 41.1 |
| 4/21/2015 | 15:10:39 | 58.40 | 52.30 | 753 | 1.73 | 0.21 | 41.2 |
| 4/21/2015 | 15:10:39 | 58.73 | 52.63 | 755 | 1.73 | 0.21 | 41.3 |
| 4/21/2015 | 15:10:40 | 59.06 | 52.96 | 747 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 15:10:41 | 59.38 | 53.28 | 747 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 15:10:41 | 59.71 | 53.61 | 745 | 1.73 | 0.21 | 40.7 |
| 4/21/2015 | 15:10:42 | 60.04 | 53.94 | 742 | 1.73 | 0.21 | 40.6 |
| 4/21/2015 | 15:10:42 | 60.37 | 54.27 | 742 | 1.73 | 0.21 | 40.6 |
| 4/21/2015 | 15:10:43 | 60.70 | 54.60 | 736 | 1.73 | 0.21 | 40.2 |
| 4/21/2015 | 15:10:43 | 61.02 | 54.92 | 728 | 1.73 | 0.21 | 39.8 |
| 4/21/2015 | 15:10:44 | 61.35 | 55.25 | 730 | 1.73 | 0.21 | 39.9 |
| 4/21/2015 | 15:10:44 | 61.56 | 55.46 | 730 | 1.73 | 0.21 | 39.9 |

## E235 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:08:28

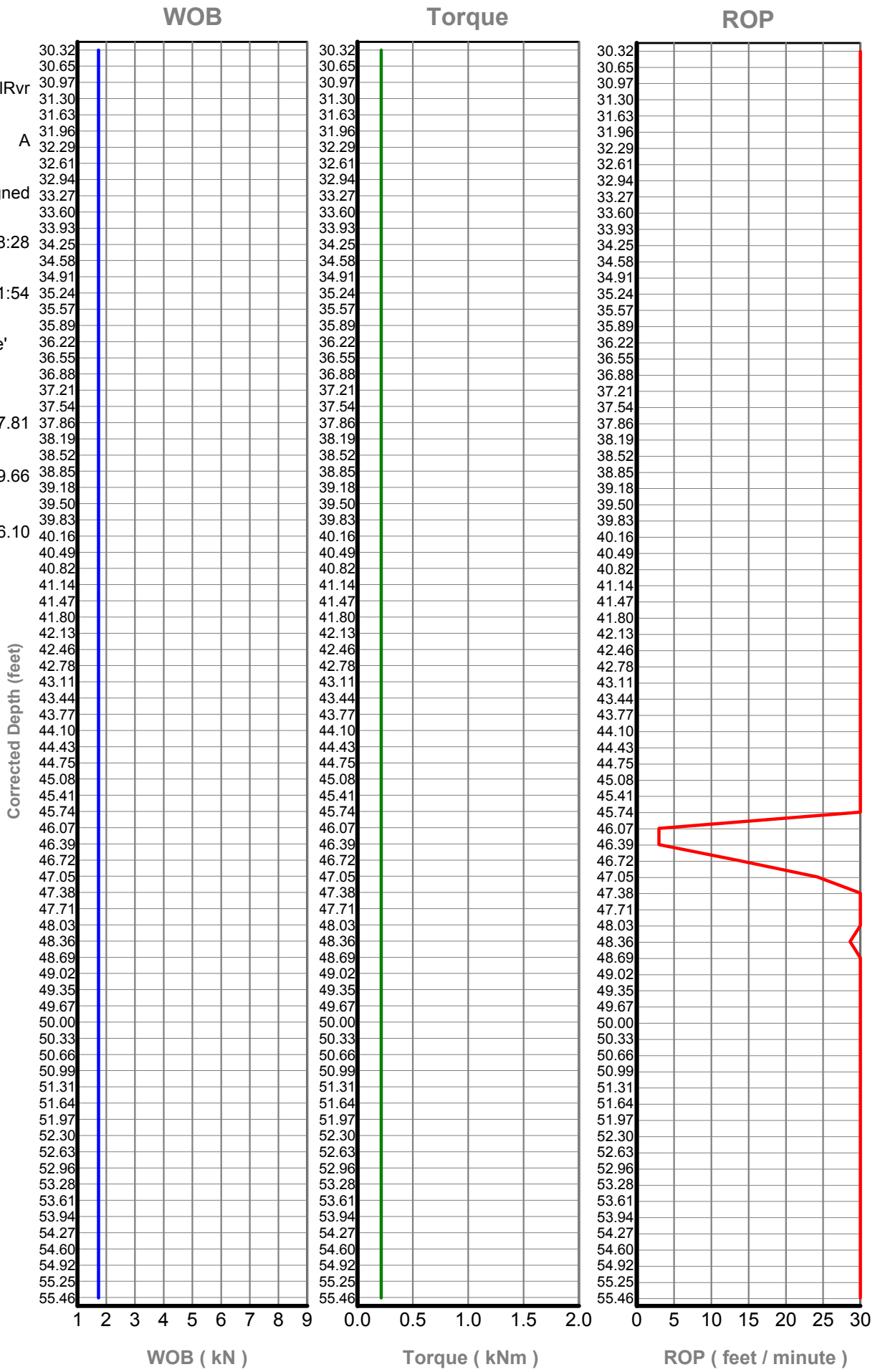
**End Date:**
4/21/2015 15:11:54

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,887.81

**Easting:**
253,479.66

**Tide (feet):**
6.10



## Hole: E236 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:15:37 | 36.42 | 30.32 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:15:37 | 36.75 | 30.65 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:15:37 | 37.07 | 30.97 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:38 | 37.40 | 31.30 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:39 | 37.73 | 31.63 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:39 | 38.06 | 31.96 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 15:15:39 | 38.39 | 32.29 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:15:40 | 38.71 | 32.61 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:15:40 | 39.04 | 32.94 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 15:15:40 | 39.37 | 33.27 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 15:15:41 | 39.70 | 33.60 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 15:15:41 | 40.03 | 33.93 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 15:15:41 | 40.35 | 34.25 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:15:42 | 40.68 | 34.58 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:15:42 | 41.01 | 34.91 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:15:42 | 41.34 | 35.24 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:43 | 41.67 | 35.57 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:43 | 41.99 | 35.89 | 1,037 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 15:15:43 | 42.32 | 36.22 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 15:15:44 | 42.65 | 36.55 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 15:15:44 | 42.98 | 36.88 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 15:15:44 | 43.31 | 37.21 | 1,036 | 1.73 | 0.21 | 56.7 |
| 4/21/2015 15:15:44 | 43.64 | 37.54 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 15:15:45 | 43.96 | 37.86 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:15:45 | 44.29 | 38.19 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:15:45 | 44.62 | 38.52 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 15:15:46 | 44.95 | 38.85 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:46 | 45.28 | 39.18 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:15:47 | 45.60 | 39.50 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 15:15:47 | 45.93 | 39.83 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 15:15:47 | 46.26 | 40.16 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:48 | 46.59 | 40.49 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:48 | 46.92 | 40.82 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 15:15:48 | 47.24 | 41.14 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 15:15:49 | 47.57 | 41.47 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 15:15:49 | 47.90 | 41.80 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:50 | 48.23 | 42.13 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:50 | 48.56 | 42.46 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:50 | 48.88 | 42.78 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:51 | 49.21 | 43.11 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:51 | 49.54 | 43.44 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:51 | 49.87 | 43.77 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:15:52 | 50.20 | 44.10 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:15:52 | 50.53 | 44.43 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:15:52 | 50.85 | 44.75 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 15:15:53 | 51.18 | 45.08 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:53 | 51.51 | 45.41 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 15:15:53 | 51.84 | 45.74 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 15:15:54 | 52.17 | 46.07 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 15:15:54 | 52.49 | 46.39 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 15:15:54 | 52.82 | 46.72 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 15:15:55 | 53.15 | 47.05 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 15:15:55 | 53.48 | 47.38 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 15:15:55 | 53.81 | 47.71 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 15:15:56 | 54.13 | 48.03 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 15:15:56 | 54.46 | 48.36 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 15:15:56 | 54.79 | 48.69 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 15:15:57 | 55.12 | 49.02 | 939 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 15:15:57 | 55.45 | 49.35 | 891 | 1.73 | 0.21 | 48.7 |
| 4/21/2015 15:15:58 | 55.77 | 49.67 | 838 | 1.73 | 0.21 | 45.8 |
| 4/21/2015 15:15:58 | 56.10 | 50.00 | 802 | 1.73 | 0.21 | 43.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:15:59 | 56.43 | 50.33 | 746 | 1.73 | 0.21 | 40.8 |
| 4/21/2015 | 15:15:59 | 56.76 | 50.66 | 747 | 1.73 | 0.21 | 40.9 |
| 4/21/2015 | 15:16:00 | 57.09 | 50.99 | 739 | 1.73 | 0.21 | 40.4 |
| 4/21/2015 | 15:16:00 | 57.41 | 51.31 | 724 | 1.73 | 0.21 | 39.6 |
| 4/21/2015 | 15:16:01 | 57.74 | 51.64 | 691 | 1.73 | 0.21 | 37.8 |
| 4/21/2015 | 15:16:02 | 58.07 | 51.97 | 590 | 1.73 | 0.21 | 32.2 |
| 4/21/2015 | 15:16:03 | 58.40 | 52.30 | 550 | 1.73 | 0.21 | 30.1 |
| 4/21/2015 | 15:16:03 | 58.73 | 52.63 | 535 | 1.73 | 0.21 | 29.3 |
| 4/21/2015 | 15:16:04 | 59.06 | 52.96 | 545 | 1.73 | 0.21 | 29.8 |
| 4/21/2015 | 15:16:04 | 59.38 | 53.28 | 574 | 1.73 | 0.21 | 31.4 |
| 4/21/2015 | 15:16:05 | 59.71 | 53.61 | 617 | 1.73 | 0.21 | 33.7 |
| 4/21/2015 | 15:16:05 | 60.04 | 53.94 | 649 | 1.73 | 0.21 | 35.5 |
| 4/21/2015 | 15:16:06 | 60.37 | 54.27 | 654 | 1.73 | 0.21 | 35.8 |
| 4/21/2015 | 15:16:06 | 60.70 | 54.60 | 654 | 1.73 | 0.21 | 35.8 |
| 4/21/2015 | 15:16:07 | 61.02 | 54.92 | 646 | 1.73 | 0.21 | 35.3 |
| 4/21/2015 | 15:16:08 | 61.35 | 55.25 | 639 | 1.73 | 0.21 | 34.9 |
| 4/21/2015 | 15:16:08 | 61.68 | 55.58 | 643 | 1.73 | 0.21 | 35.2 |
| 4/21/2015 | 15:16:09 | 61.96 | 55.86 | 635 | 1.73 | 0.21 | 34.7 |

## E236 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:14:19

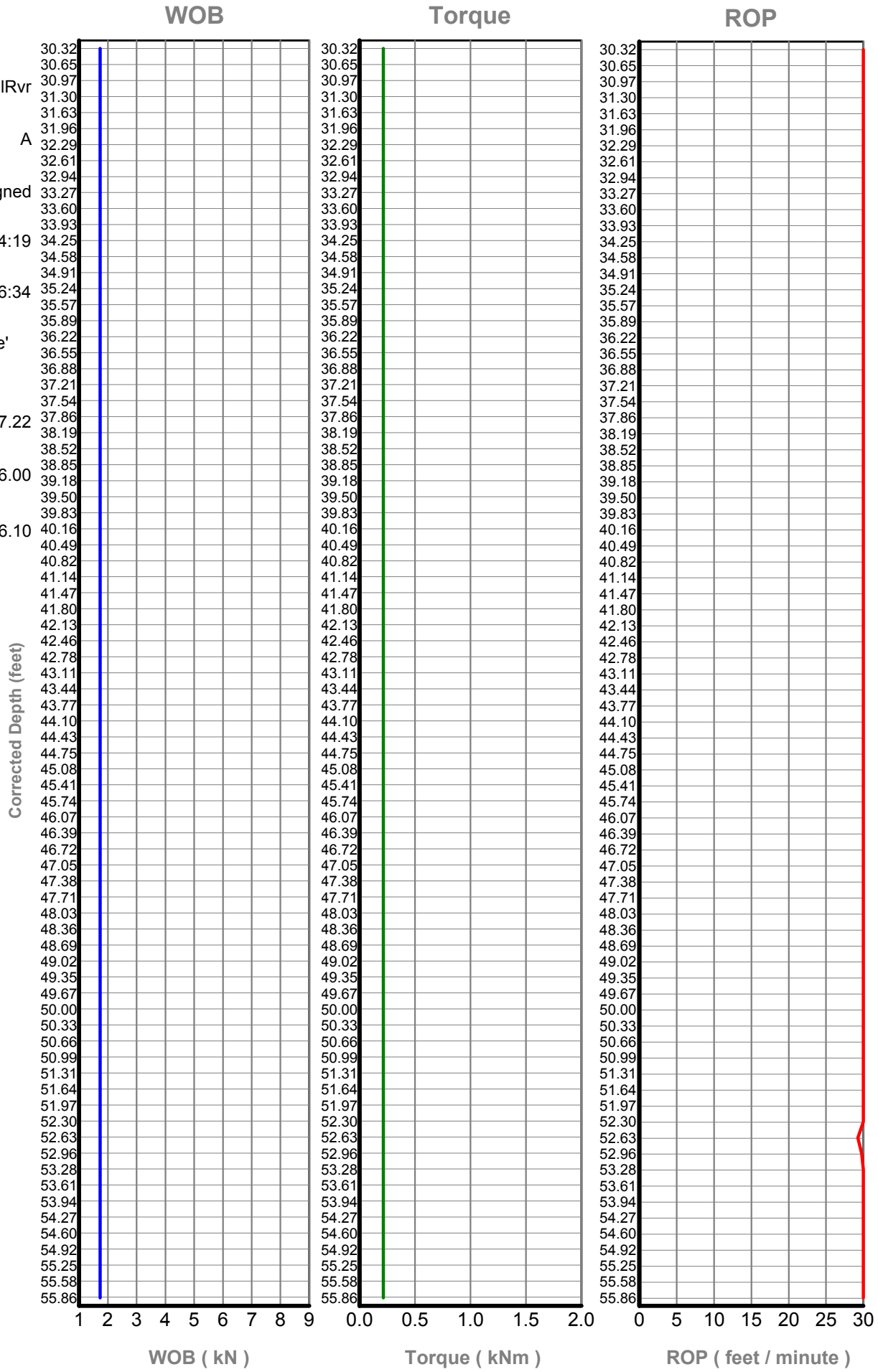
**End Date:**
4/21/2015 15:16:34

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,937.22

**Easting:**
253,536.00

**Tide (feet):**
6.10



## Hole: E237 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 22:43:55 | 33.46 | 30.26 | 890 | 1.93 | 0.22 | 48.7 |
| 4/19/2015 22:43:56 | 33.79 | 30.59 | 890 | 1.93 | 0.22 | 48.7 |
| 4/19/2015 22:43:56 | 34.12 | 30.92 | 890 | 1.93 | 0.22 | 48.7 |
| 4/19/2015 22:43:56 | 34.45 | 31.25 | 893 | 1.93 | 0.22 | 48.8 |
| 4/19/2015 22:43:57 | 34.78 | 31.58 | 893 | 1.93 | 0.22 | 48.8 |
| 4/19/2015 22:43:57 | 35.11 | 31.91 | 887 | 1.93 | 0.22 | 48.5 |
| 4/19/2015 22:43:58 | 35.43 | 32.23 | 893 | 1.93 | 0.22 | 48.8 |
| 4/19/2015 22:43:58 | 35.76 | 32.56 | 893 | 1.93 | 0.22 | 48.8 |
| 4/19/2015 22:43:58 | 36.09 | 32.89 | 881 | 1.93 | 0.22 | 48.2 |
| 4/19/2015 22:43:59 | 36.42 | 33.22 | 881 | 1.93 | 0.22 | 48.2 |
| 4/19/2015 22:44:26 | 36.75 | 33.55 | 87 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 22:44:28 | 37.07 | 33.87 | 171 | 1.93 | 0.22 | 9.4 |
| 4/19/2015 22:44:30 | 37.40 | 34.20 | 169 | 1.93 | 0.22 | 9.2 |
| 4/19/2015 22:44:32 | 37.73 | 34.53 | 205 | 1.93 | 0.22 | 11.2 |
| 4/19/2015 22:44:33 | 38.06 | 34.86 | 262 | 1.93 | 0.22 | 14.3 |
| 4/19/2015 22:44:33 | 38.39 | 35.19 | 324 | 1.93 | 0.22 | 17.7 |
| 4/19/2015 22:44:34 | 38.71 | 35.51 | 422 | 1.93 | 0.22 | 23.1 |
| 4/19/2015 22:44:35 | 39.04 | 35.84 | 427 | 1.93 | 0.22 | 23.4 |
| 4/19/2015 22:44:36 | 39.37 | 36.17 | 421 | 1.93 | 0.22 | 23.0 |
| 4/19/2015 22:44:37 | 39.70 | 36.50 | 428 | 1.93 | 0.22 | 23.4 |
| 4/19/2015 22:44:37 | 40.03 | 36.83 | 448 | 1.93 | 0.22 | 24.5 |
| 4/19/2015 22:44:38 | 40.35 | 37.15 | 448 | 1.93 | 0.22 | 24.5 |
| 4/19/2015 22:44:39 | 40.68 | 37.48 | 492 | 1.93 | 0.22 | 26.9 |
| 4/19/2015 22:44:40 | 41.01 | 37.81 | 428 | 1.93 | 0.22 | 23.4 |
| 4/19/2015 22:44:42 | 41.34 | 38.14 | 257 | 1.93 | 0.22 | 14.0 |
| 4/19/2015 22:44:43 | 41.67 | 38.47 | 230 | 1.93 | 0.22 | 12.6 |
| 4/19/2015 22:44:45 | 41.99 | 38.79 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 22:44:49 | 42.32 | 39.12 | 97 | 1.93 | 0.22 | 5.3 |
| 4/19/2015 22:44:58 | 42.65 | 39.45 | 32 | 1.93 | 0.22 | 1.8 |
| 4/19/2015 22:44:59 | 42.98 | 39.78 | 160 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 22:45:10 | 43.31 | 40.11 | 22 | 1.93 | 0.22 | 1.2 |
| 4/19/2015 22:45:15 | 43.64 | 40.44 | 44 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 22:45:17 | 43.96 | 40.76 | 180 | 1.93 | 0.22 | 9.8 |
| 4/19/2015 22:45:19 | 44.29 | 41.09 | 185 | 1.93 | 0.22 | 10.1 |
| 4/19/2015 22:45:19 | 44.62 | 41.42 | 259 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 22:45:23 | 44.95 | 41.75 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 22:45:34 | 45.28 | 42.08 | 18 | 1.93 | 0.22 | 1.0 |
| 4/19/2015 22:45:42 | 45.60 | 42.40 | 50 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 22:45:49 | 45.93 | 42.73 | 49 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 22:45:57 | 46.26 | 43.06 | 42 | 1.93 | 0.22 | 2.3 |
| 4/19/2015 22:46:04 | 46.51 | 43.31 | 39 | 1.93 | 0.22 | 2.1 |

## E237 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/19/2015 22:35:59

**End Date:**
4/19/2015 22:47:45

**Operator Note:**
'3.2 3 b Auto Complete'

**Northing:**
369,313.17

**Easting:**
253,575.78

**Tide (feet):**
3.20



## Hole: E238 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 22:56:34 | 33.79 | 30.09 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 22:56:34 | 34.12 | 30.42 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 22:56:35 | 34.45 | 30.75 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 22:56:35 | 34.78 | 31.08 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 22:56:36 | 35.11 | 31.41 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 22:56:36 | 35.43 | 31.73 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 22:56:36 | 35.76 | 32.06 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 22:57:27 | 36.09 | 32.39 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 22:57:29 | 36.42 | 32.72 | 140 | 1.93 | 0.22 | 7.7 |
| 4/19/2015 22:57:31 | 36.75 | 33.05 | 195 | 1.93 | 0.22 | 10.6 |
| 4/19/2015 22:57:34 | 37.07 | 33.37 | 102 | 1.93 | 0.22 | 5.6 |
| 4/19/2015 22:57:36 | 37.40 | 33.70 | 162 | 1.93 | 0.22 | 8.9 |
| 4/19/2015 22:57:37 | 37.73 | 34.03 | 204 | 1.93 | 0.22 | 11.1 |
| 4/19/2015 22:57:38 | 38.06 | 34.36 | 260 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 22:57:39 | 38.39 | 34.69 | 376 | 1.93 | 0.22 | 20.5 |
| 4/19/2015 22:57:40 | 38.71 | 35.01 | 422 | 1.93 | 0.22 | 23.1 |
| 4/19/2015 22:57:41 | 39.04 | 35.34 | 419 | 1.93 | 0.22 | 22.9 |
| 4/19/2015 22:57:42 | 39.37 | 35.67 | 326 | 1.93 | 0.22 | 17.8 |
| 4/19/2015 22:57:59 | 39.70 | 36.00 | 23 | 1.93 | 0.22 | 1.3 |
| 4/19/2015 22:58:00 | 40.03 | 36.33 | 93 | 1.93 | 0.22 | 5.1 |
| 4/19/2015 22:58:07 | 40.35 | 36.65 | 66 | 1.93 | 0.22 | 3.6 |
| 4/19/2015 22:58:10 | 40.68 | 36.98 | 99 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 22:58:11 | 41.01 | 37.31 | 162 | 1.93 | 0.22 | 8.8 |
| 4/19/2015 22:58:16 | 41.34 | 37.64 | 3 | 1.93 | 0.22 | 0.2 |
| 4/19/2015 22:58:16 | 41.67 | 37.97 | 109 | 1.93 | 0.22 | 5.9 |
| 4/19/2015 22:58:20 | 41.99 | 38.29 | 101 | 1.93 | 0.22 | 5.5 |
| 4/19/2015 22:58:21 | 42.32 | 38.62 | 114 | 1.93 | 0.22 | 6.2 |
| 4/19/2015 22:58:26 | 42.65 | 38.95 | 70 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 22:58:33 | 42.98 | 39.28 | 20 | 1.93 | 0.22 | 1.1 |
| 4/19/2015 22:58:35 | 43.31 | 39.61 | 129 | 1.93 | 0.22 | 7.0 |
| 4/19/2015 22:58:37 | 43.64 | 39.94 | 228 | 1.93 | 0.22 | 12.5 |
| 4/19/2015 22:58:38 | 43.96 | 40.26 | 245 | 1.93 | 0.22 | 13.4 |
| 4/19/2015 22:58:40 | 44.29 | 40.59 | 223 | 1.93 | 0.22 | 12.2 |
| 4/19/2015 22:58:41 | 44.62 | 40.92 | 252 | 1.93 | 0.22 | 13.8 |
| 4/19/2015 23:00:16 | 44.95 | 41.25 | 24 | 1.93 | 0.22 | 1.3 |
| 4/19/2015 23:00:18 | 45.28 | 41.58 | 131 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 23:00:20 | 45.60 | 41.90 | 229 | 1.93 | 0.22 | 12.5 |
| 4/19/2015 23:00:36 | 45.93 | 42.23 | 52 | 1.93 | 0.22 | 2.9 |
| 4/19/2015 23:00:44 | 46.26 | 42.56 | 44 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 23:00:52 | 46.59 | 42.89 | 52 | 1.93 | 0.22 | 2.9 |
| 4/19/2015 23:00:59 | 46.92 | 43.22 | 46 | 1.93 | 0.22 | 2.5 |
| 4/19/2015 23:01:00 | 46.97 | 43.27 | 51 | 1.93 | 0.22 | 2.8 |

## E238 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/19/2015 22:51:07

**End Date:**
4/19/2015 23:02:19

**Operator Note:**
'3.7 3 b Auto Complete'

**Northing:**
369,265.64

**Easting:**
253,517.84

**Tide (feet):**
3.70



## Hole: E239 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:27:08 | 32.48 | 30.28 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:27:08 | 32.81 | 30.61 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:27:09 | 33.14 | 30.94 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:27:09 | 33.46 | 31.26 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:27:09 | 33.79 | 31.59 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:27:10 | 34.12 | 31.92 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:27:10 | 34.45 | 32.25 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:27:10 | 34.78 | 32.58 | 1,080 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:27:11 | 35.11 | 32.91 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:11 | 35.43 | 33.23 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:11 | 35.76 | 33.56 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:27:12 | 36.09 | 33.89 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:12 | 36.42 | 34.22 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:12 | 36.75 | 34.55 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:27:13 | 37.07 | 34.87 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:27:13 | 37.40 | 35.20 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:27:13 | 37.73 | 35.53 | 1,065 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:27:14 | 38.06 | 35.86 | 1,065 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:27:14 | 38.39 | 36.19 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:27:14 | 38.71 | 36.51 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:27:15 | 39.04 | 36.84 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:27:15 | 39.37 | 37.17 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:27:15 | 39.70 | 37.50 | 1,071 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:27:16 | 40.03 | 37.83 | 1,071 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:27:16 | 40.35 | 38.15 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:27:17 | 40.68 | 38.48 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:27:17 | 41.01 | 38.81 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:27:17 | 41.34 | 39.14 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:27:18 | 41.67 | 39.47 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:18 | 41.99 | 39.79 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 9:27:18 | 42.32 | 40.12 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:27:19 | 42.65 | 40.45 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:27:19 | 42.98 | 40.78 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:27:19 | 43.31 | 41.11 | 1,058 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 9:27:20 | 43.64 | 41.44 | 1,058 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 9:27:20 | 43.96 | 41.76 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:27:20 | 44.29 | 42.09 | 1,048 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:27:21 | 44.62 | 42.42 | 1,048 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:27:21 | 44.95 | 42.75 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 9:27:21 | 45.28 | 43.08 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:27:22 | 45.60 | 43.40 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:27:22 | 45.93 | 43.73 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 9:27:22 | 46.26 | 44.06 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:27:23 | 46.59 | 44.39 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 9:27:23 | 46.92 | 44.72 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:27:23 | 47.24 | 45.04 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:27:24 | 47.57 | 45.37 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:27:24 | 47.90 | 45.70 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:27:47 | 48.23 | 46.03 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 9:27:58 | 48.56 | 46.36 | 40 | 0.43 | 0.46 | 2.2 |
| 4/20/2015 9:27:59 | 48.88 | 46.68 | 174 | 0.43 | 0.46 | 9.5 |
| 4/20/2015 9:28:00 | 49.21 | 47.01 | 259 | 0.43 | 0.46 | 14.2 |
| 4/20/2015 9:28:09 | 49.54 | 47.34 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 9:28:10 | 49.87 | 47.67 | 147 | 0.43 | 0.46 | 8.0 |
| 4/20/2015 9:28:11 | 50.20 | 48.00 | 238 | 0.43 | 0.46 | 13.0 |
| 4/20/2015 9:28:11 | 50.53 | 48.33 | 344 | 0.43 | 0.46 | 18.8 |
| 4/20/2015 9:28:12 | 50.85 | 48.65 | 468 | 0.43 | 0.46 | 25.6 |
| 4/20/2015 9:28:13 | 51.18 | 48.98 | 449 | 0.43 | 0.46 | 24.5 |
| 4/20/2015 9:28:14 | 51.51 | 49.31 | 348 | 0.43 | 0.46 | 19.1 |
| 4/20/2015 9:28:16 | 51.84 | 49.64 | 332 | 0.43 | 0.46 | 18.1 |
| 4/20/2015 9:28:16 | 52.17 | 49.97 | 326 | 0.43 | 0.46 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:28:17 | 52.49 | 50.29 | 373 | 0.43 | 0.46 | 20.4 |
| 4/20/2015 | 9:28:18 | 52.82 | 50.62 | 387 | 0.43 | 0.46 | 21.2 |
| 4/20/2015 | 9:28:19 | 53.15 | 50.95 | 427 | 0.43 | 0.46 | 23.4 |
| 4/20/2015 | 9:28:20 | 53.48 | 51.28 | 418 | 0.43 | 0.46 | 22.9 |
| 4/20/2015 | 9:28:21 | 53.81 | 51.61 | 423 | 0.43 | 0.46 | 23.1 |
| 4/20/2015 | 9:28:22 | 54.13 | 51.93 | 380 | 0.43 | 0.46 | 20.8 |
| 4/20/2015 | 9:28:23 | 54.46 | 52.26 | 380 | 0.43 | 0.46 | 20.8 |
| 4/20/2015 | 9:28:23 | 54.79 | 52.59 | 395 | 0.43 | 0.46 | 21.6 |
| 4/20/2015 | 9:28:24 | 55.12 | 52.92 | 379 | 0.43 | 0.46 | 20.7 |
| 4/20/2015 | 9:28:25 | 55.45 | 53.25 | 375 | 0.43 | 0.46 | 20.5 |
| 4/20/2015 | 9:28:26 | 55.77 | 53.57 | 369 | 0.43 | 0.46 | 20.2 |
| 4/20/2015 | 9:28:28 | 56.10 | 53.90 | 367 | 0.43 | 0.46 | 20.1 |
| 4/20/2015 | 9:28:29 | 56.43 | 54.23 | 370 | 0.43 | 0.46 | 20.2 |
| 4/20/2015 | 9:28:30 | 56.76 | 54.56 | 287 | 0.43 | 0.46 | 15.7 |
| 4/20/2015 | 9:28:32 | 56.98 | 54.78 | 178 | 0.43 | 0.46 | 9.8 |

## E239 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:25:23

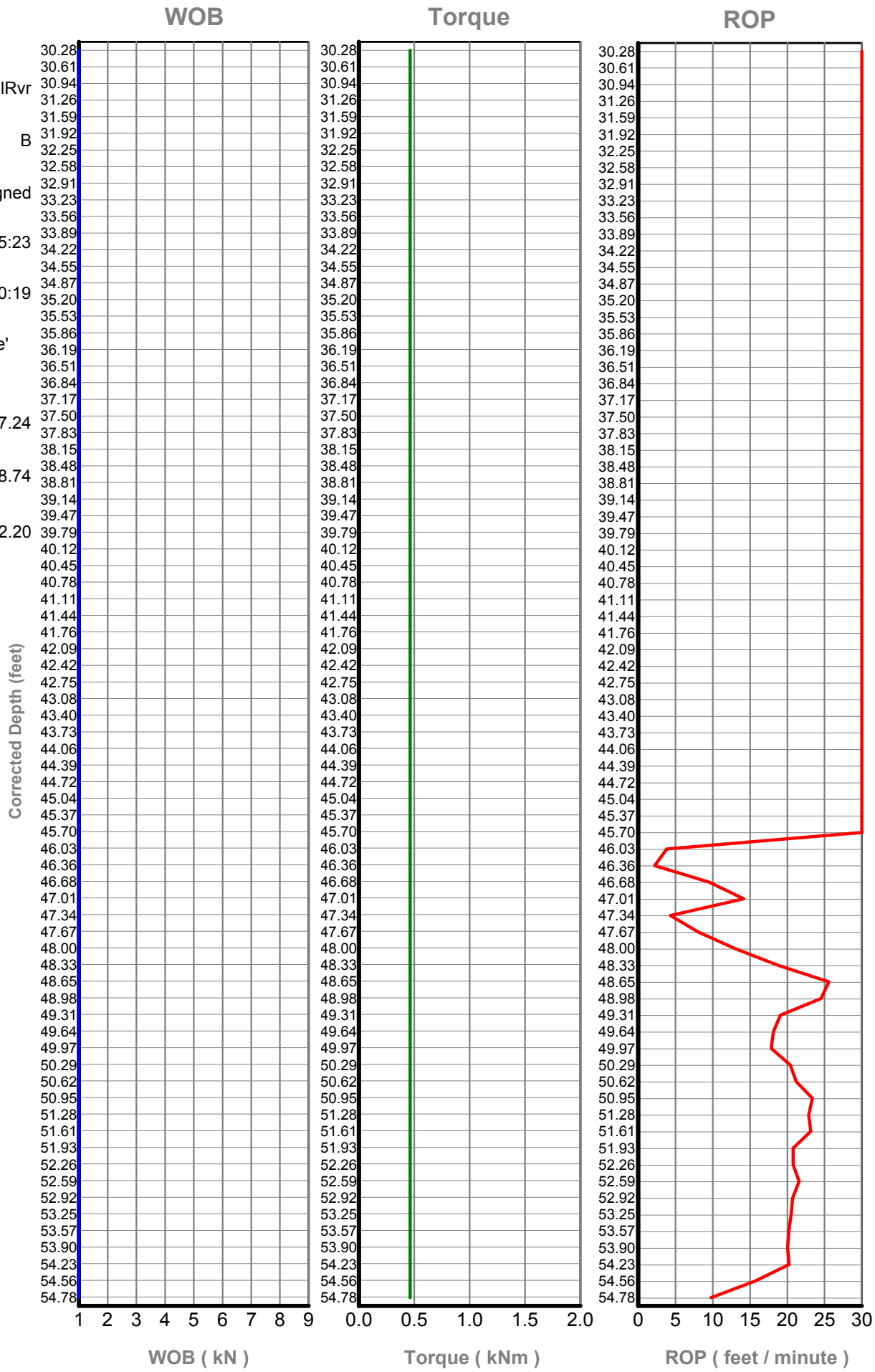
**End Date:**
4/20/2015 9:30:19

**Operator Note:**
'2.2 2.0 b Auto Complete'

**Northing:**
368,757.24

**Easting:**
253,728.74

**Tide (feet):**
2.20



## Hole: E24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 0:23:06 | 36.09 | 30.29 | 363 | 1.93 | 0.22 | 19.9 |
| 4/20/2015 0:23:06 | 36.42 | 30.62 | 551 | 1.93 | 0.22 | 30.1 |
| 4/20/2015 0:23:07 | 36.75 | 30.95 | 729 | 1.93 | 0.22 | 39.9 |
| 4/20/2015 0:23:07 | 37.07 | 31.27 | 729 | 1.93 | 0.22 | 39.9 |
| 4/20/2015 0:23:08 | 37.40 | 31.60 | 729 | 1.93 | 0.22 | 39.9 |
| 4/20/2015 0:23:08 | 37.73 | 31.93 | 917 | 1.93 | 0.22 | 50.2 |
| 4/20/2015 0:23:09 | 38.06 | 32.26 | 935 | 1.93 | 0.22 | 51.1 |
| 4/20/2015 0:23:09 | 38.39 | 32.59 | 935 | 1.93 | 0.22 | 51.1 |
| 4/20/2015 0:23:09 | 38.71 | 32.91 | 943 | 1.93 | 0.22 | 51.6 |
| 4/20/2015 0:23:10 | 39.04 | 33.24 | 946 | 1.93 | 0.22 | 51.7 |
| 4/20/2015 0:23:10 | 39.37 | 33.57 | 952 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 0:23:11 | 39.70 | 33.90 | 952 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 0:23:11 | 40.03 | 34.23 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 0:23:11 | 40.35 | 34.55 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 0:23:12 | 40.68 | 34.88 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 0:23:12 | 41.01 | 35.21 | 939 | 1.93 | 0.22 | 51.4 |
| 4/20/2015 0:23:12 | 41.34 | 35.54 | 942 | 1.93 | 0.22 | 51.5 |
| 4/20/2015 0:23:13 | 41.67 | 35.87 | 948 | 1.93 | 0.22 | 51.8 |
| 4/20/2015 0:23:13 | 41.99 | 36.19 | 948 | 1.93 | 0.22 | 51.8 |
| 4/20/2015 0:23:13 | 42.32 | 36.52 | 948 | 1.93 | 0.22 | 51.8 |
| 4/20/2015 0:23:14 | 42.65 | 36.85 | 953 | 1.93 | 0.22 | 52.1 |
| 4/20/2015 0:23:14 | 42.98 | 37.18 | 956 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 0:23:15 | 43.31 | 37.51 | 956 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 0:23:15 | 43.64 | 37.84 | 943 | 1.93 | 0.22 | 51.5 |
| 4/20/2015 0:23:39 | 43.96 | 38.16 | 71 | 1.93 | 0.22 | 3.9 |
| 4/20/2015 0:23:43 | 44.29 | 38.49 | 81 | 1.93 | 0.22 | 4.4 |
| 4/20/2015 0:23:49 | 44.62 | 38.82 | 58 | 1.93 | 0.22 | 3.2 |
| 4/20/2015 0:23:50 | 44.95 | 39.15 | 137 | 1.93 | 0.22 | 7.5 |
| 4/20/2015 0:23:52 | 45.28 | 39.48 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 0:24:02 | 45.60 | 39.80 | 38 | 1.93 | 0.22 | 2.1 |
| 4/20/2015 0:24:06 | 45.93 | 40.13 | 75 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 0:24:08 | 46.26 | 40.46 | 204 | 1.93 | 0.22 | 11.2 |
| 4/20/2015 0:24:09 | 46.59 | 40.79 | 247 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 0:24:38 | 46.92 | 41.12 | 6 | 1.93 | 0.22 | 0.3 |
| 4/20/2015 0:24:39 | 47.24 | 41.44 | 131 | 1.93 | 0.22 | 7.2 |
| 4/20/2015 0:24:42 | 47.57 | 41.77 | 133 | 1.93 | 0.22 | 7.3 |
| 4/20/2015 0:24:44 | 47.90 | 42.10 | 199 | 1.93 | 0.22 | 10.9 |
| 4/20/2015 0:24:44 | 48.23 | 42.43 | 264 | 1.93 | 0.22 | 14.4 |
| 4/20/2015 0:24:45 | 48.56 | 42.76 | 405 | 1.93 | 0.22 | 22.2 |
| 4/20/2015 0:24:46 | 48.88 | 43.08 | 396 | 1.93 | 0.22 | 21.6 |
| 4/20/2015 0:24:47 | 49.21 | 43.41 | 345 | 1.93 | 0.22 | 18.9 |
| 4/20/2015 0:24:48 | 49.54 | 43.74 | 323 | 1.93 | 0.22 | 17.6 |
| 4/20/2015 0:24:49 | 49.87 | 44.07 | 355 | 1.93 | 0.22 | 19.4 |
| 4/20/2015 0:24:51 | 50.20 | 44.40 | 209 | 1.93 | 0.22 | 11.4 |
| 4/20/2015 0:24:57 | 50.53 | 44.73 | 73 | 1.93 | 0.22 | 4.0 |
| 4/20/2015 0:25:02 | 50.85 | 45.05 | 64 | 1.93 | 0.22 | 3.5 |
| 4/20/2015 0:25:03 | 51.18 | 45.38 | 159 | 1.93 | 0.22 | 8.7 |
| 4/20/2015 0:25:04 | 51.51 | 45.71 | 244 | 1.93 | 0.22 | 13.4 |
| 4/20/2015 0:25:04 | 51.84 | 46.04 | 327 | 1.93 | 0.22 | 17.9 |
| 4/20/2015 0:25:05 | 52.17 | 46.37 | 498 | 1.93 | 0.22 | 27.2 |
| 4/20/2015 0:25:06 | 52.49 | 46.69 | 515 | 1.93 | 0.22 | 28.2 |
| 4/20/2015 0:25:07 | 52.82 | 47.02 | 477 | 1.93 | 0.22 | 26.1 |
| 4/20/2015 0:25:09 | 53.15 | 47.35 | 312 | 1.93 | 0.22 | 17.1 |
| 4/20/2015 0:25:10 | 53.48 | 47.68 | 286 | 1.93 | 0.22 | 15.7 |
| 4/20/2015 0:25:10 | 53.81 | 48.01 | 321 | 1.93 | 0.22 | 17.5 |
| 4/20/2015 0:25:11 | 54.13 | 48.33 | 434 | 1.93 | 0.22 | 23.7 |
| 4/20/2015 0:25:12 | 54.46 | 48.66 | 469 | 1.93 | 0.22 | 25.7 |
| 4/20/2015 0:25:12 | 54.79 | 48.99 | 498 | 1.93 | 0.22 | 27.2 |
| 4/20/2015 0:25:13 | 55.12 | 49.32 | 477 | 1.93 | 0.22 | 26.1 |
| 4/20/2015 0:25:14 | 55.45 | 49.65 | 420 | 1.93 | 0.22 | 23.0 |
| 4/20/2015 0:25:15 | 55.77 | 49.97 | 348 | 1.93 | 0.22 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 0:25:19 | 56.10 | 50.30 | 105 | 1.93 | 0.22 | 5.8 |
| 4/20/2015 | 0:25:21 | 56.43 | 50.63 | 64 | 1.93 | 0.22 | 3.5 |
| 4/20/2015 | 0:25:26 | 56.76 | 50.96 | 17 | 1.93 | 0.22 | 0.9 |
| 4/20/2015 | 0:25:27 | 57.09 | 51.29 | 155 | 1.93 | 0.22 | 8.5 |
| 4/20/2015 | 0:25:28 | 57.41 | 51.61 | 314 | 1.93 | 0.22 | 17.2 |
| 4/20/2015 | 0:25:29 | 57.74 | 51.94 | 400 | 1.93 | 0.22 | 21.9 |
| 4/20/2015 | 0:25:31 | 58.07 | 52.27 | 369 | 1.93 | 0.22 | 20.2 |
| 4/20/2015 | 0:25:33 | 58.40 | 52.60 | 215 | 1.93 | 0.22 | 11.8 |
| 4/20/2015 | 0:25:35 | 58.73 | 52.93 | 160 | 1.93 | 0.22 | 8.8 |
| 4/20/2015 | 0:25:37 | 59.06 | 53.26 | 128 | 1.93 | 0.22 | 7.0 |
| 4/20/2015 | 0:25:41 | 59.38 | 53.58 | 109 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 | 0:25:45 | 59.71 | 53.91 | 87 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 0:25:49 | 60.04 | 54.24 | 96 | 1.93 | 0.22 | 5.2 |
| 4/20/2015 | 0:25:55 | 60.35 | 54.55 | 31 | 1.93 | 0.22 | 1.7 |

## E24 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 0:17:56

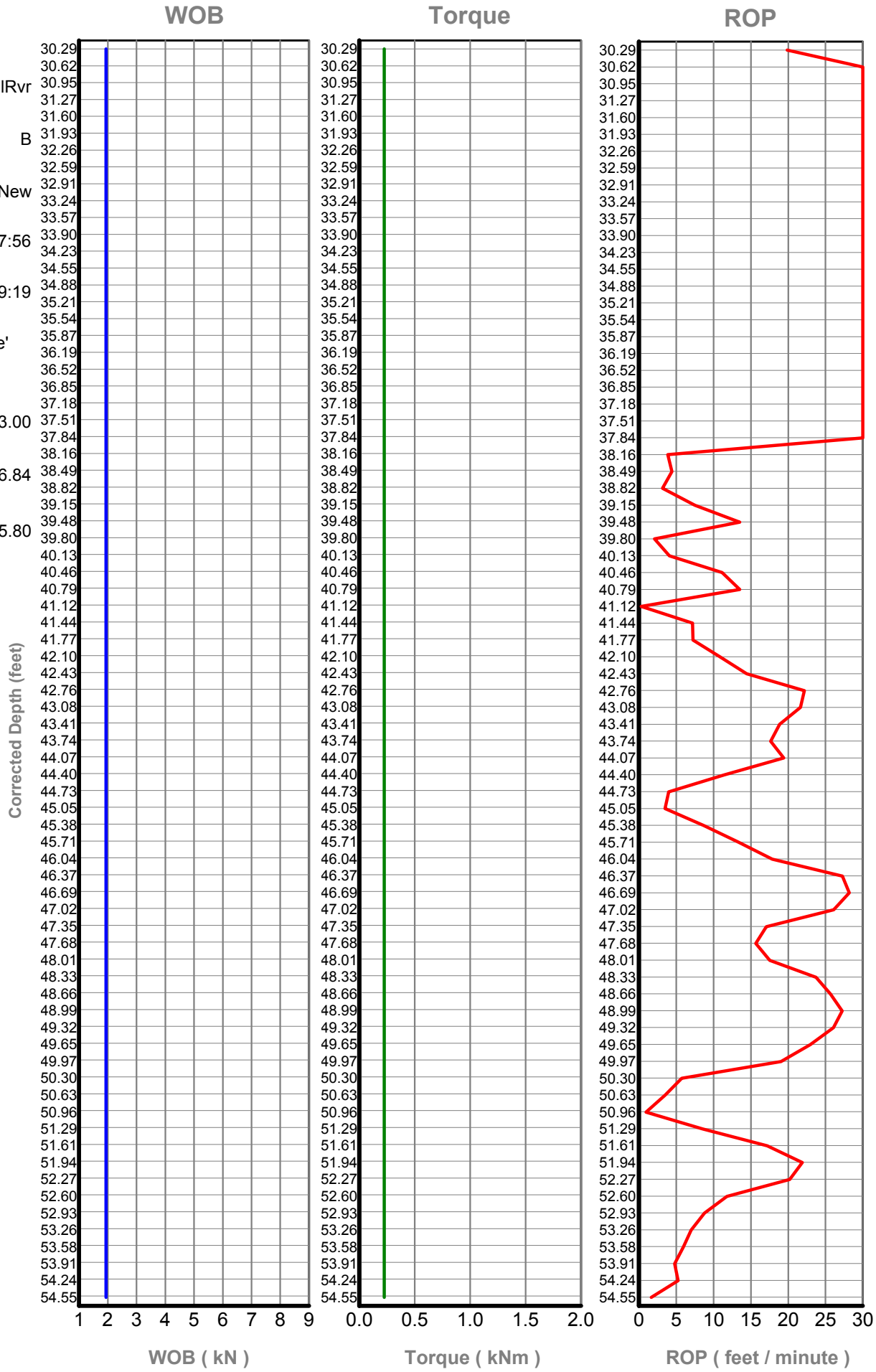
**End Date:**
4/20/2015 0:29:19

**Operator Note:**
'5.8 5.3 b Auto Complete'

**Northing:**
369,253.00

**Easting:**
253,626.84

**Tide (feet):**
5.80



## Hole: E240 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 6:29:36 | 34.78 | 30.18 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:36 | 35.11 | 30.51 | 940 | 1.73 | 0.21 | 51.4 |
| 4/21/2015 6:29:37 | 35.43 | 30.83 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:37 | 35.76 | 31.16 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:37 | 36.09 | 31.49 | 937 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 6:29:38 | 36.42 | 31.82 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:38 | 36.75 | 32.15 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:38 | 37.07 | 32.47 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:39 | 37.40 | 32.80 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:39 | 37.73 | 33.13 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:40 | 38.06 | 33.46 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:40 | 38.39 | 33.79 | 954 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 6:29:40 | 38.71 | 34.11 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 6:29:41 | 39.04 | 34.44 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 6:29:41 | 39.37 | 34.77 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 6:29:41 | 39.70 | 35.10 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 6:29:42 | 40.03 | 35.43 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 6:29:43 | 40.35 | 35.75 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 6:29:43 | 40.68 | 36.08 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 6:29:43 | 41.01 | 36.41 | 943 | 1.73 | 0.21 | 51.6 |
| 4/21/2015 6:29:44 | 41.34 | 36.74 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 6:29:44 | 41.67 | 37.07 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 6:29:44 | 41.99 | 37.39 | 952 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:45 | 42.32 | 37.72 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 6:29:45 | 42.65 | 38.05 | 952 | 1.73 | 0.21 | 52.1 |
| 4/21/2015 6:29:45 | 42.98 | 38.38 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 6:29:46 | 43.31 | 38.71 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 6:29:46 | 43.64 | 39.04 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 6:29:47 | 43.96 | 39.36 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 6:29:47 | 44.29 | 39.69 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:47 | 44.62 | 40.02 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:48 | 44.95 | 40.35 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 6:29:48 | 45.28 | 40.68 | 954 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 6:29:48 | 45.60 | 41.00 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:49 | 45.93 | 41.33 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:49 | 46.26 | 41.66 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:49 | 46.59 | 41.99 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:50 | 46.92 | 42.32 | 951 | 1.73 | 0.21 | 52.0 |
| 4/21/2015 6:29:50 | 47.24 | 42.64 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:51 | 47.57 | 42.97 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:51 | 47.90 | 43.30 | 948 | 1.73 | 0.21 | 51.8 |
| 4/21/2015 6:29:51 | 48.23 | 43.63 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:52 | 48.56 | 43.96 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:52 | 48.88 | 44.28 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:52 | 49.21 | 44.61 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:53 | 49.54 | 44.94 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:54 | 49.87 | 45.27 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:53 | 50.20 | 45.60 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:54 | 50.53 | 45.93 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:55 | 50.85 | 46.25 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:55 | 51.18 | 46.58 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:55 | 51.51 | 46.91 | 945 | 1.73 | 0.21 | 51.7 |
| 4/21/2015 6:29:56 | 51.84 | 47.24 | 931 | 1.73 | 0.21 | 50.9 |
| 4/21/2015 6:30:39 | 52.17 | 47.57 | 56 | 1.73 | 0.21 | 3.1 |
| 4/21/2015 6:30:40 | 52.49 | 47.89 | 169 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 6:30:45 | 52.82 | 48.22 | 32 | 1.73 | 0.21 | 1.8 |
| 4/21/2015 6:30:47 | 53.15 | 48.55 | 166 | 1.73 | 0.21 | 9.1 |
| 4/21/2015 6:30:50 | 53.48 | 48.88 | 90 | 1.73 | 0.21 | 4.9 |
| 4/21/2015 6:30:52 | 53.81 | 49.21 | 201 | 1.73 | 0.21 | 11.0 |
| 4/21/2015 6:30:53 | 54.13 | 49.53 | 262 | 1.73 | 0.21 | 14.3 |
| 4/21/2015 6:30:56 | 54.46 | 49.86 | 134 | 1.73 | 0.21 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 6:30:57 | 54.79 | 50.19 | 137 | 1.73 | 0.21 | 7.5 |
| 4/21/2015 | 6:30:58 | 55.12 | 50.52 | 272 | 1.73 | 0.21 | 14.9 |
| 4/21/2015 | 6:30:59 | 55.45 | 50.85 | 274 | 1.73 | 0.21 | 15.0 |
| 4/21/2015 | 6:31:00 | 55.77 | 51.17 | 357 | 1.73 | 0.21 | 19.5 |
| 4/21/2015 | 6:31:01 | 56.10 | 51.50 | 378 | 1.73 | 0.21 | 20.7 |
| 4/21/2015 | 6:31:02 | 56.43 | 51.83 | 416 | 1.73 | 0.21 | 22.8 |
| 4/21/2015 | 6:31:03 | 56.76 | 52.16 | 392 | 1.73 | 0.21 | 21.4 |
| 4/21/2015 | 6:31:05 | 57.09 | 52.49 | 320 | 1.73 | 0.21 | 17.5 |
| 4/21/2015 | 6:31:06 | 57.41 | 52.81 | 289 | 1.73 | 0.21 | 15.8 |
| 4/21/2015 | 6:31:07 | 57.74 | 53.14 | 250 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 | 6:31:27 | 58.07 | 53.47 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 6:31:30 | 58.40 | 53.80 | 137 | 1.73 | 0.21 | 7.5 |
| 4/21/2015 | 6:31:57 | 58.73 | 54.13 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 6:32:08 | 59.06 | 54.46 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 6:32:11 | 59.38 | 54.78 | 122 | 1.73 | 0.21 | 6.7 |
| 4/21/2015 | 6:32:23 | 59.71 | 55.11 | 23 | 1.73 | 0.21 | 1.2 |
| 4/21/2015 | 6:32:25 | 59.96 | 55.36 | 119 | 1.73 | 0.21 | 6.5 |

## E240 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 6:26:51

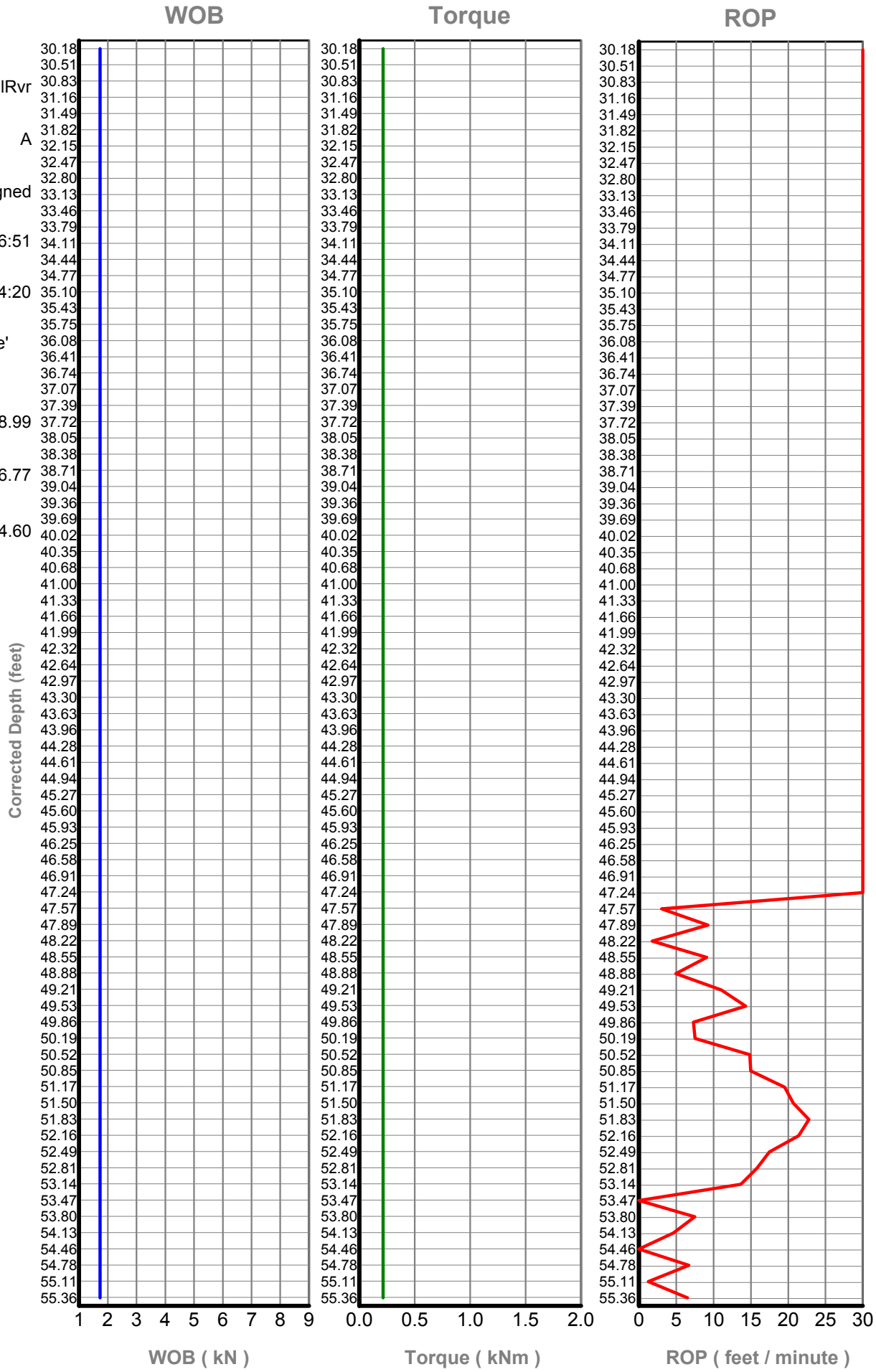
**End Date:**
4/21/2015 6:34:20

**Operator Note:**
'4.6 4.9 b Auto Complete'

**Northing:**
368,638.99

**Easting:**
252,866.77

**Tide (feet):**
4.60



## Hole: E241 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 7:50:14 | 33.46 | 30.26 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:15 | 33.79 | 30.59 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:15 | 34.12 | 30.92 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:16 | 34.45 | 31.25 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 7:50:16 | 34.78 | 31.58 | 959 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 7:50:16 | 35.11 | 31.91 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 7:50:17 | 35.43 | 32.23 | 966 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 7:50:17 | 35.76 | 32.56 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:18 | 36.09 | 32.89 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:18 | 36.42 | 33.22 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:18 | 36.75 | 33.55 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:19 | 37.07 | 33.87 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:19 | 37.40 | 34.20 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:19 | 37.73 | 34.53 | 963 | 1.73 | 0.21 | 52.7 |
| 4/21/2015 7:50:20 | 38.06 | 34.86 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 7:50:20 | 38.39 | 35.19 | 960 | 1.73 | 0.21 | 52.5 |
| 4/21/2015 7:50:20 | 38.71 | 35.51 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:21 | 39.04 | 35.84 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:21 | 39.37 | 36.17 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:21 | 39.70 | 36.50 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 7:50:22 | 40.03 | 36.83 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:22 | 40.35 | 37.15 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 7:50:23 | 40.68 | 37.48 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 7:50:23 | 41.01 | 37.81 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 7:50:23 | 41.34 | 38.14 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:24 | 41.67 | 38.47 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:24 | 41.99 | 38.79 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:24 | 42.32 | 39.12 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:25 | 42.65 | 39.45 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:25 | 42.98 | 39.78 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:25 | 43.31 | 40.11 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 7:50:26 | 43.64 | 40.44 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:26 | 43.96 | 40.76 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:26 | 44.29 | 41.09 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:27 | 44.62 | 41.42 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:28 | 44.95 | 41.75 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:28 | 45.28 | 42.08 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:28 | 45.60 | 42.40 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 7:50:29 | 45.93 | 42.73 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:29 | 46.26 | 43.06 | 963 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:29 | 46.59 | 43.39 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:30 | 46.92 | 43.72 | 966 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 7:50:30 | 47.24 | 44.04 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:31 | 47.57 | 44.37 | 968 | 1.73 | 0.21 | 52.9 |
| 4/21/2015 7:50:31 | 47.90 | 44.70 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:31 | 48.23 | 45.03 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:32 | 48.56 | 45.36 | 969 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 7:50:32 | 48.88 | 45.68 | 955 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 7:50:32 | 49.21 | 46.01 | 955 | 1.73 | 0.21 | 52.2 |
| 4/21/2015 7:50:33 | 49.54 | 46.34 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:33 | 49.87 | 46.67 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:33 | 50.20 | 47.00 | 957 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 7:50:34 | 50.53 | 47.33 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:34 | 50.85 | 47.65 | 962 | 1.73 | 0.21 | 52.6 |
| 4/21/2015 7:50:34 | 51.18 | 47.98 | 959 | 1.73 | 0.21 | 52.4 |
| 4/21/2015 7:50:35 | 51.51 | 48.31 | 959 | 1.73 | 0.21 | 52.4 |
| 4/21/2015 7:50:35 | 51.84 | 48.64 | 973 | 1.73 | 0.21 | 53.2 |
| 4/21/2015 7:50:36 | 52.17 | 48.97 | 973 | 1.73 | 0.21 | 53.2 |
| 4/21/2015 7:52:56 | 52.49 | 49.29 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 7:52:58 | 52.82 | 49.62 | 222 | 1.73 | 0.21 | 12.1 |
| 4/21/2015 7:52:59 | 53.15 | 49.95 | 222 | 1.73 | 0.21 | 12.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 7:52:59 | 53.48 | 50.28 | 318 | 1.73 | 0.21 | 17.4 |
| 4/21/2015 | 7:53:05 | 53.81 | 50.61 | 40 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 | 7:53:06 | 54.13 | 50.93 | 176 | 1.73 | 0.21 | 9.6 |
| 4/21/2015 | 7:53:06 | 54.46 | 51.26 | 176 | 1.73 | 0.21 | 9.6 |
| 4/21/2015 | 7:53:07 | 54.79 | 51.59 | 374 | 1.73 | 0.21 | 20.4 |
| 4/21/2015 | 7:53:08 | 55.12 | 51.92 | 374 | 1.73 | 0.21 | 20.4 |
| 4/21/2015 | 7:53:09 | 55.45 | 52.25 | 467 | 1.73 | 0.21 | 25.5 |
| 4/21/2015 | 7:53:09 | 55.77 | 52.57 | 524 | 1.73 | 0.21 | 28.6 |
| 4/21/2015 | 7:53:11 | 56.10 | 52.90 | 398 | 1.73 | 0.21 | 21.8 |
| 4/21/2015 | 7:53:13 | 56.43 | 53.23 | 205 | 1.73 | 0.21 | 11.2 |
| 4/21/2015 | 7:53:14 | 56.76 | 53.56 | 214 | 1.73 | 0.21 | 11.7 |
| 4/21/2015 | 7:53:15 | 57.09 | 53.89 | 264 | 1.73 | 0.21 | 14.4 |
| 4/21/2015 | 7:53:17 | 57.41 | 54.21 | 239 | 1.73 | 0.21 | 13.1 |
| 4/21/2015 | 7:53:21 | 57.74 | 54.54 | 100 | 1.73 | 0.21 | 5.5 |
| 4/21/2015 | 7:53:30 | 58.07 | 54.87 | 32 | 1.73 | 0.21 | 1.7 |
| 4/21/2015 | 7:53:31 | 58.38 | 55.18 | 108 | 1.73 | 0.21 | 5.9 |

## E241 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 7:47:35

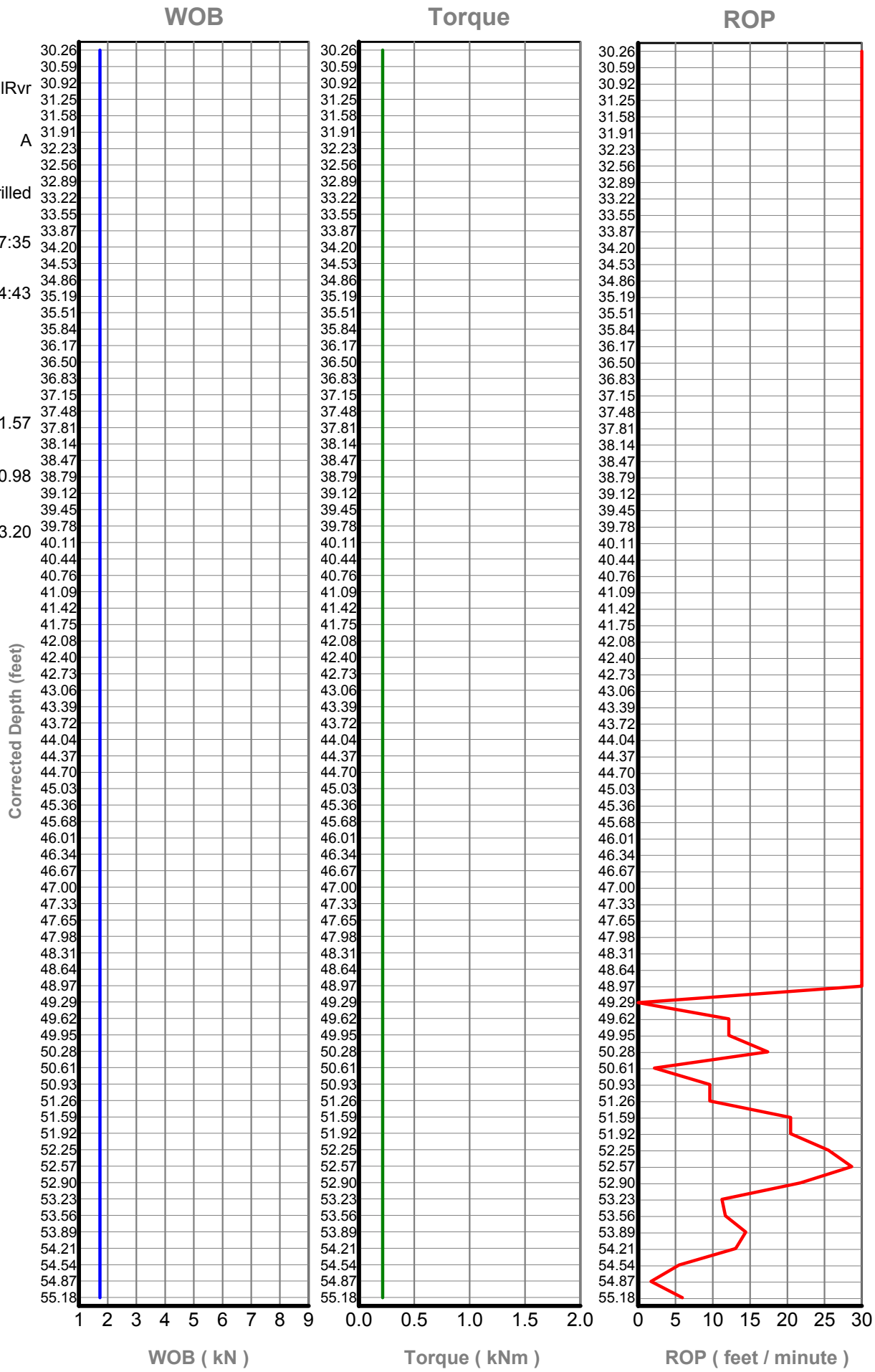
**End Date:**
4/21/2015 7:54:43

**Operator Note:**
'3.2 '4.9 3.4 b Auto Complete'

**Northing:**
368,601.57

**Easting:**
252,820.98

**Tide (feet):**
3.20



## Hole: E242 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 5:28:54 | 36.09 | 30.29 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 5:28:54 | 36.42 | 30.62 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 5:28:54 | 36.75 | 30.95 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 5:29:13 | 37.07 | 31.27 | 18 | 1.73 | 0.21 | 1.0 |
| 4/21/2015 5:29:17 | 37.40 | 31.60 | 71 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 5:29:18 | 37.73 | 31.93 | 243 | 1.73 | 0.21 | 13.3 |
| 4/21/2015 5:29:19 | 38.06 | 32.26 | 340 | 1.73 | 0.21 | 18.6 |
| 4/21/2015 5:29:19 | 38.39 | 32.59 | 467 | 1.73 | 0.21 | 25.5 |
| 4/21/2015 5:29:20 | 38.71 | 32.91 | 509 | 1.73 | 0.21 | 27.9 |
| 4/21/2015 5:29:21 | 39.04 | 33.24 | 555 | 1.73 | 0.21 | 30.4 |
| 4/21/2015 5:29:22 | 39.37 | 33.57 | 584 | 1.73 | 0.21 | 32.0 |
| 4/21/2015 5:29:22 | 39.70 | 33.90 | 581 | 1.73 | 0.21 | 31.8 |
| 4/21/2015 5:29:23 | 40.03 | 34.23 | 590 | 1.73 | 0.21 | 32.3 |
| 4/21/2015 5:29:23 | 40.35 | 34.55 | 596 | 1.73 | 0.21 | 32.6 |
| 4/21/2015 5:29:24 | 40.68 | 34.88 | 558 | 1.73 | 0.21 | 30.5 |
| 4/21/2015 5:29:25 | 41.01 | 35.21 | 524 | 1.73 | 0.21 | 28.7 |
| 4/21/2015 5:29:25 | 41.34 | 35.54 | 528 | 1.73 | 0.21 | 28.9 |
| 4/21/2015 5:29:26 | 41.67 | 35.87 | 534 | 1.73 | 0.21 | 29.2 |
| 4/21/2015 5:29:27 | 41.99 | 36.19 | 554 | 1.73 | 0.21 | 30.3 |
| 4/21/2015 5:29:27 | 42.32 | 36.52 | 585 | 1.73 | 0.21 | 32.0 |
| 4/21/2015 5:29:33 | 42.65 | 36.85 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 5:29:42 | 42.98 | 37.18 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 5:29:51 | 43.31 | 37.51 | 57 | 1.73 | 0.21 | 3.1 |
| 4/21/2015 5:29:57 | 43.64 | 37.84 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 5:29:59 | 43.96 | 38.16 | 132 | 1.73 | 0.21 | 7.2 |
| 4/21/2015 5:30:00 | 44.29 | 38.49 | 221 | 1.73 | 0.21 | 12.1 |
| 4/21/2015 5:30:02 | 44.62 | 38.82 | 302 | 1.73 | 0.21 | 16.5 |
| 4/21/2015 5:30:02 | 44.95 | 39.15 | 318 | 1.73 | 0.21 | 17.4 |
| 4/21/2015 5:30:04 | 45.28 | 39.48 | 260 | 1.73 | 0.21 | 14.2 |
| 4/21/2015 5:30:55 | 45.60 | 39.80 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:30:57 | 45.93 | 40.13 | 149 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 5:30:58 | 46.26 | 40.46 | 215 | 1.73 | 0.21 | 11.7 |
| 4/21/2015 5:31:10 | 46.59 | 40.79 | 11 | 1.73 | 0.21 | 0.6 |
| 4/21/2015 5:31:13 | 46.92 | 41.12 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 5:31:14 | 47.24 | 41.44 | 197 | 1.73 | 0.21 | 10.8 |
| 4/21/2015 5:31:16 | 47.57 | 41.77 | 291 | 1.73 | 0.21 | 15.9 |
| 4/21/2015 5:31:17 | 47.90 | 42.10 | 236 | 1.73 | 0.21 | 12.9 |
| 4/21/2015 5:31:18 | 48.23 | 42.43 | 250 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 5:31:23 | 48.56 | 42.76 | 117 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 5:31:44 | 48.88 | 43.08 | 15 | 1.73 | 0.21 | 0.8 |
| 4/21/2015 5:31:47 | 49.21 | 43.41 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 5:33:18 | 49.54 | 43.74 | 50 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 5:33:19 | 49.87 | 44.07 | 192 | 1.73 | 0.21 | 10.5 |
| 4/21/2015 5:33:20 | 50.20 | 44.40 | 285 | 1.73 | 0.21 | 15.6 |
| 4/21/2015 5:33:22 | 50.53 | 44.73 | 290 | 1.73 | 0.21 | 15.9 |
| 4/21/2015 5:33:29 | 50.85 | 45.05 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:33:30 | 51.18 | 45.38 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 5:33:32 | 51.51 | 45.71 | 189 | 1.73 | 0.21 | 10.3 |
| 4/21/2015 5:33:34 | 51.84 | 46.04 | 189 | 1.73 | 0.21 | 10.3 |
| 4/21/2015 5:34:41 | 52.17 | 46.37 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 5:34:41 | 52.49 | 46.69 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 5:34:42 | 52.82 | 47.02 | 124 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 5:34:42 | 53.15 | 47.35 | 245 | 1.73 | 0.21 | 13.4 |
| 4/21/2015 5:34:43 | 53.48 | 47.68 | 448 | 1.73 | 0.21 | 24.5 |
| 4/21/2015 5:34:44 | 53.81 | 48.01 | 522 | 1.73 | 0.21 | 28.6 |
| 4/21/2015 5:34:45 | 54.13 | 48.33 | 473 | 1.73 | 0.21 | 25.9 |
| 4/21/2015 5:34:46 | 54.46 | 48.66 | 333 | 1.73 | 0.21 | 18.2 |
| 4/21/2015 5:34:47 | 54.79 | 48.99 | 256 | 1.73 | 0.21 | 14.0 |
| 4/21/2015 5:34:48 | 55.12 | 49.32 | 319 | 1.73 | 0.21 | 17.5 |
| 4/21/2015 5:34:51 | 55.45 | 49.65 | 127 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 5:34:53 | 55.77 | 49.97 | 184 | 1.73 | 0.21 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 5:34:55 | 56.10 | 50.30 | 201 | 1.73 | 0.21 | 11.0 |
| 4/21/2015 | 5:34:56 | 56.43 | 50.63 | 191 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 | 5:34:57 | 56.76 | 50.96 | 300 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 | 5:34:58 | 57.09 | 51.29 | 325 | 1.73 | 0.21 | 17.8 |
| 4/21/2015 | 5:34:59 | 57.41 | 51.61 | 390 | 1.73 | 0.21 | 21.3 |
| 4/21/2015 | 5:35:00 | 57.74 | 51.94 | 409 | 1.73 | 0.21 | 22.4 |
| 4/21/2015 | 5:35:02 | 58.07 | 52.27 | 176 | 1.73 | 0.21 | 9.6 |
| 4/21/2015 | 5:35:03 | 58.40 | 52.60 | 233 | 1.73 | 0.21 | 12.8 |
| 4/21/2015 | 5:35:04 | 58.73 | 52.93 | 308 | 1.73 | 0.21 | 16.8 |
| 4/21/2015 | 5:35:05 | 59.06 | 53.26 | 364 | 1.73 | 0.21 | 19.9 |
| 4/21/2015 | 5:35:06 | 59.38 | 53.58 | 427 | 1.73 | 0.21 | 23.4 |
| 4/21/2015 | 5:35:06 | 59.71 | 53.91 | 419 | 1.73 | 0.21 | 22.9 |
| 4/21/2015 | 5:35:08 | 60.04 | 54.24 | 249 | 1.73 | 0.21 | 13.6 |
| 4/21/2015 | 5:35:10 | 60.37 | 54.57 | 170 | 1.73 | 0.21 | 9.3 |
| 4/21/2015 | 5:35:12 | 60.70 | 54.90 | 226 | 1.73 | 0.21 | 12.3 |
| 4/21/2015 | 5:35:13 | 61.02 | 55.22 | 217 | 1.73 | 0.21 | 11.9 |
| 4/21/2015 | 5:35:15 | 61.35 | 55.55 | 287 | 1.73 | 0.21 | 15.7 |
| 4/21/2015 | 5:35:15 | 61.68 | 55.88 | 330 | 1.73 | 0.21 | 18.0 |
| 4/21/2015 | 5:35:16 | 62.01 | 56.21 | 403 | 1.73 | 0.21 | 22.0 |
| 4/21/2015 | 5:35:17 | 62.34 | 56.54 | 403 | 1.73 | 0.21 | 22.0 |
| 4/21/2015 | 5:35:18 | 62.66 | 56.86 | 421 | 1.73 | 0.21 | 23.0 |
| 4/21/2015 | 5:35:26 | 62.95 | 57.15 | 12 | 1.73 | 0.21 | 0.6 |

## E242 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 5:21:38

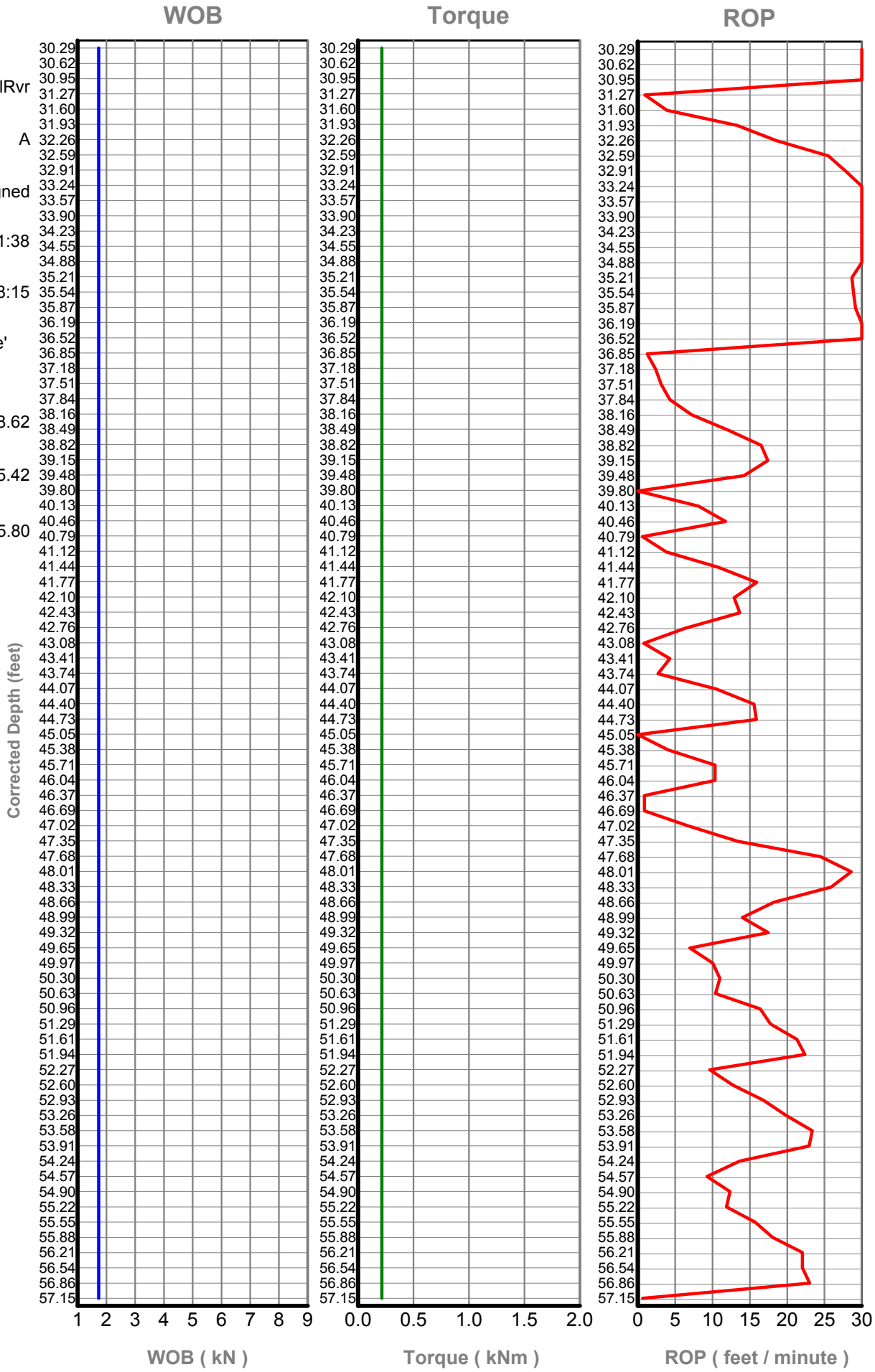
**End Date:**
4/21/2015 5:38:15

**Operator Note:**
'5.8 6.1 b Auto Complete'

**Northing:**
368,668.62

**Easting:**
252,765.42

**Tide (feet):**
5.80



## Hole: E243 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 5:48:04 | 35.43 | 30.03 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 5:48:05 | 35.76 | 30.36 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 5:48:05 | 36.09 | 30.69 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 5:48:27 | 36.42 | 31.02 | 71 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 5:48:32 | 36.75 | 31.35 | 46 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 5:48:35 | 37.07 | 31.67 | 121 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 5:48:42 | 37.40 | 32.00 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 5:48:45 | 37.73 | 32.33 | 148 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 5:48:45 | 38.06 | 32.66 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 5:48:48 | 38.39 | 32.99 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 5:48:48 | 38.71 | 33.31 | 240 | 1.73 | 0.21 | 13.1 |
| 4/21/2015 5:48:49 | 39.04 | 33.64 | 364 | 1.73 | 0.21 | 19.9 |
| 4/21/2015 5:48:50 | 39.37 | 33.97 | 487 | 1.73 | 0.21 | 26.6 |
| 4/21/2015 5:50:13 | 39.70 | 34.30 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:50:13 | 40.03 | 34.63 | 118 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 5:50:14 | 40.35 | 34.95 | 320 | 1.73 | 0.21 | 17.5 |
| 4/21/2015 5:50:14 | 40.68 | 35.28 | 320 | 1.73 | 0.21 | 17.5 |
| 4/21/2015 5:50:14 | 41.01 | 35.61 | 523 | 1.73 | 0.21 | 28.6 |
| 4/21/2015 5:50:15 | 41.34 | 35.94 | 703 | 1.73 | 0.21 | 38.4 |
| 4/21/2015 5:50:18 | 41.67 | 36.27 | 37 | 1.73 | 0.21 | 2.0 |
| 4/21/2015 5:50:21 | 41.99 | 36.59 | 63 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 5:50:26 | 42.32 | 36.92 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 5:50:27 | 42.65 | 37.25 | 103 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 5:50:38 | 42.98 | 37.58 | 126 | 1.73 | 0.21 | 6.9 |
| 4/21/2015 5:50:44 | 43.31 | 37.91 | 100 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 5:50:49 | 43.64 | 38.24 | 37 | 1.73 | 0.21 | 2.0 |
| 4/21/2015 5:50:59 | 43.96 | 38.56 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:51:10 | 44.29 | 38.89 | 26 | 1.73 | 0.21 | 1.4 |
| 4/21/2015 5:51:14 | 44.62 | 39.22 | 9 | 1.73 | 0.21 | 0.5 |
| 4/21/2015 5:51:16 | 44.95 | 39.55 | 133 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 5:51:18 | 45.28 | 39.88 | 243 | 1.73 | 0.21 | 13.3 |
| 4/21/2015 5:51:21 | 45.60 | 40.20 | 132 | 1.73 | 0.21 | 7.2 |
| 4/21/2015 5:51:23 | 45.93 | 40.53 | 164 | 1.73 | 0.21 | 8.9 |
| 4/21/2015 5:51:26 | 46.26 | 40.86 | 107 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 5:51:41 | 46.59 | 41.19 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:51:45 | 46.92 | 41.52 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 5:51:46 | 47.24 | 41.84 | 225 | 1.73 | 0.21 | 12.3 |
| 4/21/2015 5:51:53 | 47.57 | 42.17 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:51:53 | 47.90 | 42.50 | 80 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 5:51:55 | 48.23 | 42.83 | 240 | 1.73 | 0.21 | 13.1 |
| 4/21/2015 5:51:57 | 48.56 | 43.16 | 171 | 1.73 | 0.21 | 9.3 |
| 4/21/2015 5:51:58 | 48.88 | 43.48 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 5:51:59 | 49.21 | 43.81 | 250 | 1.73 | 0.21 | 13.7 |
| 4/21/2015 5:52:22 | 49.54 | 44.14 | 39 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 5:52:23 | 49.87 | 44.47 | 152 | 1.73 | 0.21 | 8.3 |
| 4/21/2015 5:52:29 | 50.20 | 44.80 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 5:52:30 | 50.53 | 45.13 | 111 | 1.73 | 0.21 | 6.0 |
| 4/21/2015 5:52:31 | 50.85 | 45.45 | 238 | 1.73 | 0.21 | 13.0 |
| 4/21/2015 5:52:32 | 51.18 | 45.78 | 308 | 1.73 | 0.21 | 16.9 |
| 4/21/2015 5:52:33 | 51.51 | 46.11 | 413 | 1.73 | 0.21 | 22.6 |
| 4/21/2015 5:52:33 | 51.84 | 46.44 | 460 | 1.73 | 0.21 | 25.1 |
| 4/21/2015 5:52:35 | 52.17 | 46.77 | 299 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 5:52:36 | 52.49 | 47.09 | 241 | 1.73 | 0.21 | 13.2 |
| 4/21/2015 5:52:37 | 52.82 | 47.42 | 305 | 1.73 | 0.21 | 16.7 |
| 4/21/2015 5:52:38 | 53.15 | 47.75 | 402 | 1.73 | 0.21 | 22.0 |
| 4/21/2015 5:52:38 | 53.48 | 48.08 | 494 | 1.73 | 0.21 | 27.0 |
| 4/21/2015 5:52:39 | 53.81 | 48.41 | 567 | 1.73 | 0.21 | 31.0 |
| 4/21/2015 5:52:39 | 54.13 | 48.73 | 602 | 1.73 | 0.21 | 32.9 |
| 4/21/2015 5:52:40 | 54.46 | 49.06 | 605 | 1.73 | 0.21 | 33.1 |
| 4/21/2015 5:52:41 | 54.79 | 49.39 | 584 | 1.73 | 0.21 | 31.9 |
| 4/21/2015 5:52:42 | 55.12 | 49.72 | 491 | 1.73 | 0.21 | 26.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 5:52:44 | 55.45 | 50.05 | 227 | 1.73 | 0.21 | 12.4 |
| 4/21/2015 | 5:52:49 | 55.77 | 50.37 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 5:55:15 | 56.10 | 50.70 | 12 | 1.73 | 0.21 | 0.6 |
| 4/21/2015 | 5:55:19 | 56.43 | 51.03 | 101 | 1.73 | 0.21 | 5.5 |
| 4/21/2015 | 5:55:22 | 56.76 | 51.36 | 95 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 5:55:42 | 57.09 | 51.69 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 5:55:46 | 57.41 | 52.01 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 5:55:50 | 57.74 | 52.34 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 5:55:59 | 58.07 | 52.67 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 5:56:03 | 58.40 | 53.00 | 72 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 | 5:56:09 | 58.73 | 53.33 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 5:56:14 | 59.06 | 53.66 | 69 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 5:56:19 | 59.38 | 53.98 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 5:56:24 | 59.71 | 54.31 | 80 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 5:56:54 | 60.04 | 54.64 | 86 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 5:56:58 | 60.37 | 54.97 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 5:57:02 | 60.66 | 55.26 | 87 | 1.73 | 0.21 | 4.7 |

## E243 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 5:42:57

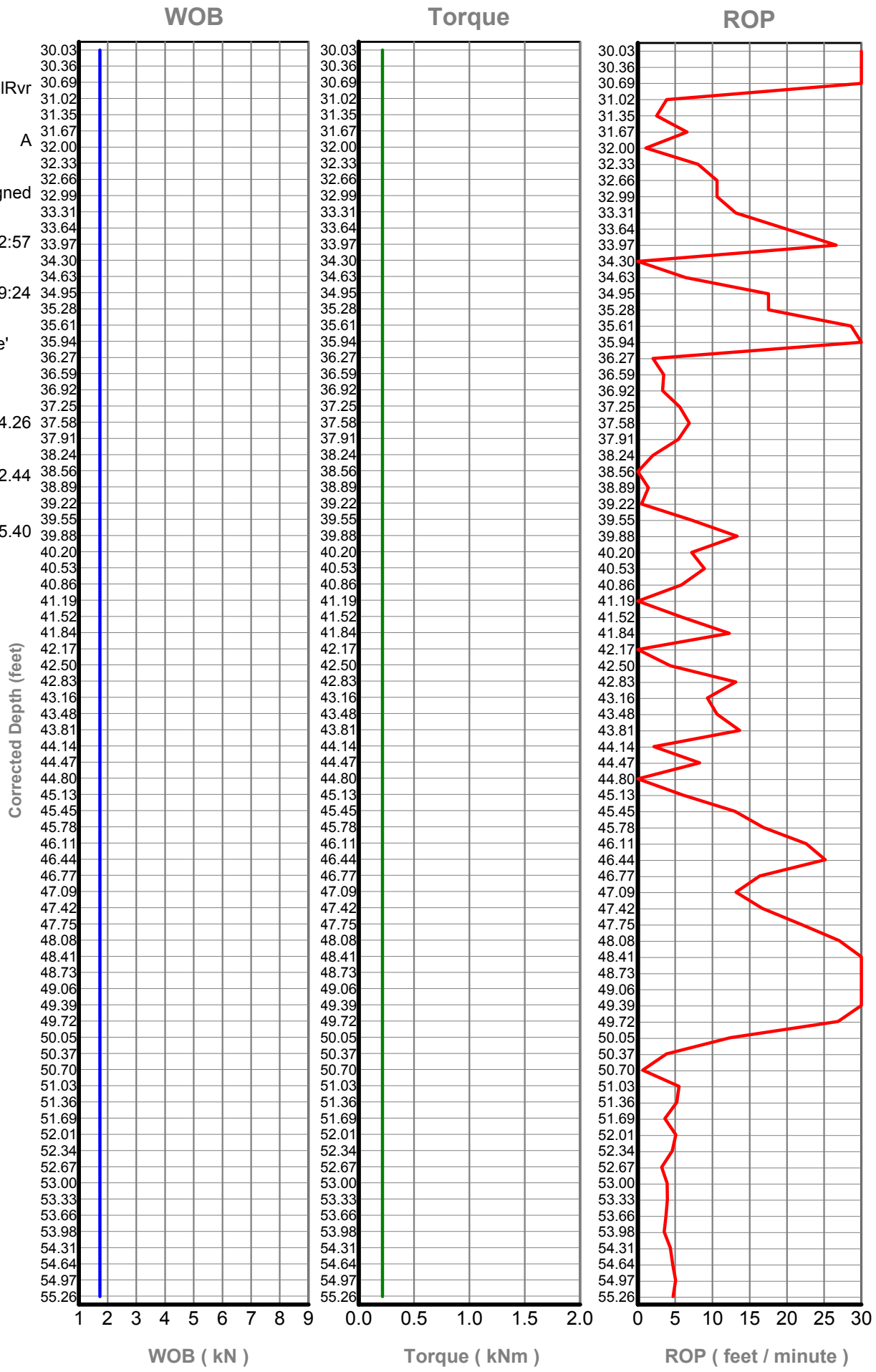
**End Date:**
4/21/2015 5:59:24

**Operator Note:**
'5.4 5.6 b Auto Complete'

**Northing:**
368,704.26

**Easting:**
252,812.44

**Tide (feet):**
5.40



## Hole: E244 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 21:01:12 | 31.82 | 30.22 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:13 | 32.15 | 30.55 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:13 | 32.48 | 30.88 | 922 | 1.73 | 0.21 | 50.4 |
| 4/20/2015 21:01:13 | 32.81 | 31.21 | 917 | 1.73 | 0.21 | 50.1 |
| 4/20/2015 21:01:14 | 33.14 | 31.54 | 923 | 1.73 | 0.21 | 50.5 |
| 4/20/2015 21:01:15 | 33.46 | 31.86 | 923 | 1.73 | 0.21 | 50.5 |
| 4/20/2015 21:01:15 | 33.79 | 32.19 | 934 | 1.73 | 0.21 | 51.1 |
| 4/20/2015 21:01:15 | 34.12 | 32.52 | 924 | 1.73 | 0.21 | 50.5 |
| 4/20/2015 21:01:16 | 34.45 | 32.85 | 924 | 1.73 | 0.21 | 50.5 |
| 4/20/2015 21:01:16 | 34.78 | 33.18 | 924 | 1.73 | 0.21 | 50.5 |
| 4/20/2015 21:01:16 | 35.11 | 33.51 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:17 | 35.43 | 33.83 | 913 | 1.73 | 0.21 | 49.9 |
| 4/20/2015 21:01:17 | 35.76 | 34.16 | 895 | 1.73 | 0.21 | 49.0 |
| 4/20/2015 21:01:18 | 36.09 | 34.49 | 895 | 1.73 | 0.21 | 49.0 |
| 4/20/2015 21:01:18 | 36.42 | 34.82 | 895 | 1.73 | 0.21 | 49.0 |
| 4/20/2015 21:01:41 | 36.75 | 35.15 | 48 | 1.73 | 0.21 | 2.7 |
| 4/20/2015 21:01:41 | 37.07 | 35.47 | 48 | 1.73 | 0.21 | 2.7 |
| 4/20/2015 21:01:41 | 37.40 | 35.80 | 234 | 1.73 | 0.21 | 12.8 |
| 4/20/2015 21:01:42 | 37.73 | 36.13 | 404 | 1.73 | 0.21 | 22.1 |
| 4/20/2015 21:01:42 | 38.06 | 36.46 | 598 | 1.73 | 0.21 | 32.7 |
| 4/20/2015 21:01:43 | 38.39 | 36.79 | 598 | 1.73 | 0.21 | 32.7 |
| 4/20/2015 21:01:43 | 38.71 | 37.11 | 792 | 1.73 | 0.21 | 43.3 |
| 4/20/2015 21:01:43 | 39.04 | 37.44 | 921 | 1.73 | 0.21 | 50.4 |
| 4/20/2015 21:01:44 | 39.37 | 37.77 | 930 | 1.73 | 0.21 | 50.9 |
| 4/20/2015 21:01:44 | 39.70 | 38.10 | 930 | 1.73 | 0.21 | 50.9 |
| 4/20/2015 21:01:44 | 40.03 | 38.43 | 952 | 1.73 | 0.21 | 52.0 |
| 4/20/2015 21:01:45 | 40.35 | 38.75 | 943 | 1.73 | 0.21 | 51.6 |
| 4/20/2015 21:01:45 | 40.68 | 39.08 | 940 | 1.73 | 0.21 | 51.4 |
| 4/20/2015 21:01:46 | 41.01 | 39.41 | 940 | 1.73 | 0.21 | 51.4 |
| 4/20/2015 21:01:46 | 41.34 | 39.74 | 935 | 1.73 | 0.21 | 51.1 |
| 4/20/2015 21:01:46 | 41.67 | 40.07 | 935 | 1.73 | 0.21 | 51.1 |
| 4/20/2015 21:01:47 | 41.99 | 40.39 | 935 | 1.73 | 0.21 | 51.1 |
| 4/20/2015 21:01:47 | 42.32 | 40.72 | 931 | 1.73 | 0.21 | 50.9 |
| 4/20/2015 21:01:47 | 42.65 | 41.05 | 917 | 1.73 | 0.21 | 50.1 |
| 4/20/2015 21:01:48 | 42.98 | 41.38 | 919 | 1.73 | 0.21 | 50.3 |
| 4/20/2015 21:01:49 | 43.31 | 41.71 | 919 | 1.73 | 0.21 | 50.3 |
| 4/20/2015 21:01:48 | 43.64 | 42.04 | 911 | 1.73 | 0.21 | 49.8 |
| 4/20/2015 21:01:49 | 43.96 | 42.36 | 911 | 1.73 | 0.21 | 49.8 |
| 4/20/2015 21:01:50 | 44.29 | 42.69 | 933 | 1.73 | 0.21 | 51.0 |
| 4/20/2015 21:01:50 | 44.62 | 43.02 | 933 | 1.73 | 0.21 | 51.0 |
| 4/20/2015 21:01:50 | 44.95 | 43.35 | 921 | 1.73 | 0.21 | 50.3 |
| 4/20/2015 21:01:51 | 45.28 | 43.68 | 940 | 1.73 | 0.21 | 51.4 |
| 4/20/2015 21:01:51 | 45.60 | 44.00 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:52 | 45.93 | 44.33 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:52 | 46.26 | 44.66 | 925 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:52 | 46.59 | 44.99 | 937 | 1.73 | 0.21 | 51.3 |
| 4/20/2015 21:01:53 | 46.92 | 45.32 | 921 | 1.73 | 0.21 | 50.4 |
| 4/20/2015 21:01:53 | 47.24 | 45.64 | 921 | 1.73 | 0.21 | 50.4 |
| 4/20/2015 21:01:53 | 47.57 | 45.97 | 926 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:54 | 47.90 | 46.30 | 926 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:54 | 48.23 | 46.63 | 926 | 1.73 | 0.21 | 50.6 |
| 4/20/2015 21:01:54 | 48.56 | 46.96 | 934 | 1.73 | 0.21 | 51.1 |
| 4/20/2015 21:01:55 | 48.88 | 47.28 | 932 | 1.73 | 0.21 | 51.0 |
| 4/20/2015 21:02:50 | 49.21 | 47.61 | 21 | 1.73 | 0.21 | 1.1 |
| 4/20/2015 21:03:17 | 49.54 | 47.94 | 3 | 1.73 | 0.21 | 0.2 |
| 4/20/2015 21:03:18 | 49.87 | 48.27 | 93 | 1.73 | 0.21 | 5.1 |
| 4/20/2015 21:03:19 | 50.20 | 48.60 | 214 | 1.73 | 0.21 | 11.7 |
| 4/20/2015 21:03:20 | 50.53 | 48.93 | 328 | 1.73 | 0.21 | 17.9 |
| 4/20/2015 21:03:20 | 50.85 | 49.25 | 381 | 1.73 | 0.21 | 20.8 |
| 4/20/2015 21:03:22 | 51.18 | 49.58 | 402 | 1.73 | 0.21 | 22.0 |
| 4/20/2015 21:03:22 | 51.51 | 49.91 | 414 | 1.73 | 0.21 | 22.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 21:03:23 | 51.84 | 50.24 | 376 | 1.73 | 0.21 | 20.6 |
| 4/20/2015 | 21:03:25 | 52.17 | 50.57 | 413 | 1.73 | 0.21 | 22.6 |
| 4/20/2015 | 21:03:25 | 52.49 | 50.89 | 404 | 1.73 | 0.21 | 22.1 |
| 4/20/2015 | 21:03:26 | 52.82 | 51.22 | 399 | 1.73 | 0.21 | 21.8 |
| 4/20/2015 | 21:03:27 | 53.15 | 51.55 | 468 | 1.73 | 0.21 | 25.6 |
| 4/20/2015 | 21:03:27 | 53.48 | 51.88 | 471 | 1.73 | 0.21 | 25.8 |
| 4/20/2015 | 21:03:28 | 53.81 | 52.21 | 459 | 1.73 | 0.21 | 25.1 |
| 4/20/2015 | 21:03:29 | 54.13 | 52.53 | 433 | 1.73 | 0.21 | 23.7 |
| 4/20/2015 | 21:12:14 | 54.46 | 52.86 | 0 | 1.73 | 0.21 | 0.0 |
| 4/20/2015 | 21:12:15 | 54.79 | 53.19 | 109 | 1.73 | 0.21 | 6.0 |
| 4/20/2015 | 21:12:20 | 55.12 | 53.52 | 82 | 1.73 | 0.21 | 4.5 |
| 4/20/2015 | 21:12:23 | 55.45 | 53.85 | 104 | 1.73 | 0.21 | 5.7 |
| 4/20/2015 | 21:12:27 | 55.77 | 54.17 | 66 | 1.73 | 0.21 | 3.6 |
| 4/20/2015 | 21:12:37 | 56.10 | 54.50 | 26 | 1.73 | 0.21 | 1.4 |
| 4/20/2015 | 21:12:43 | 56.43 | 54.83 | 64 | 1.73 | 0.21 | 3.5 |
| 4/20/2015 | 21:13:09 | 56.76 | 55.16 | 12 | 1.73 | 0.21 | 0.6 |
| 4/20/2015 | 21:13:16 | 56.92 | 55.32 | 11 | 1.73 | 0.21 | 0.6 |

## E244 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/20/2015 20:56:53

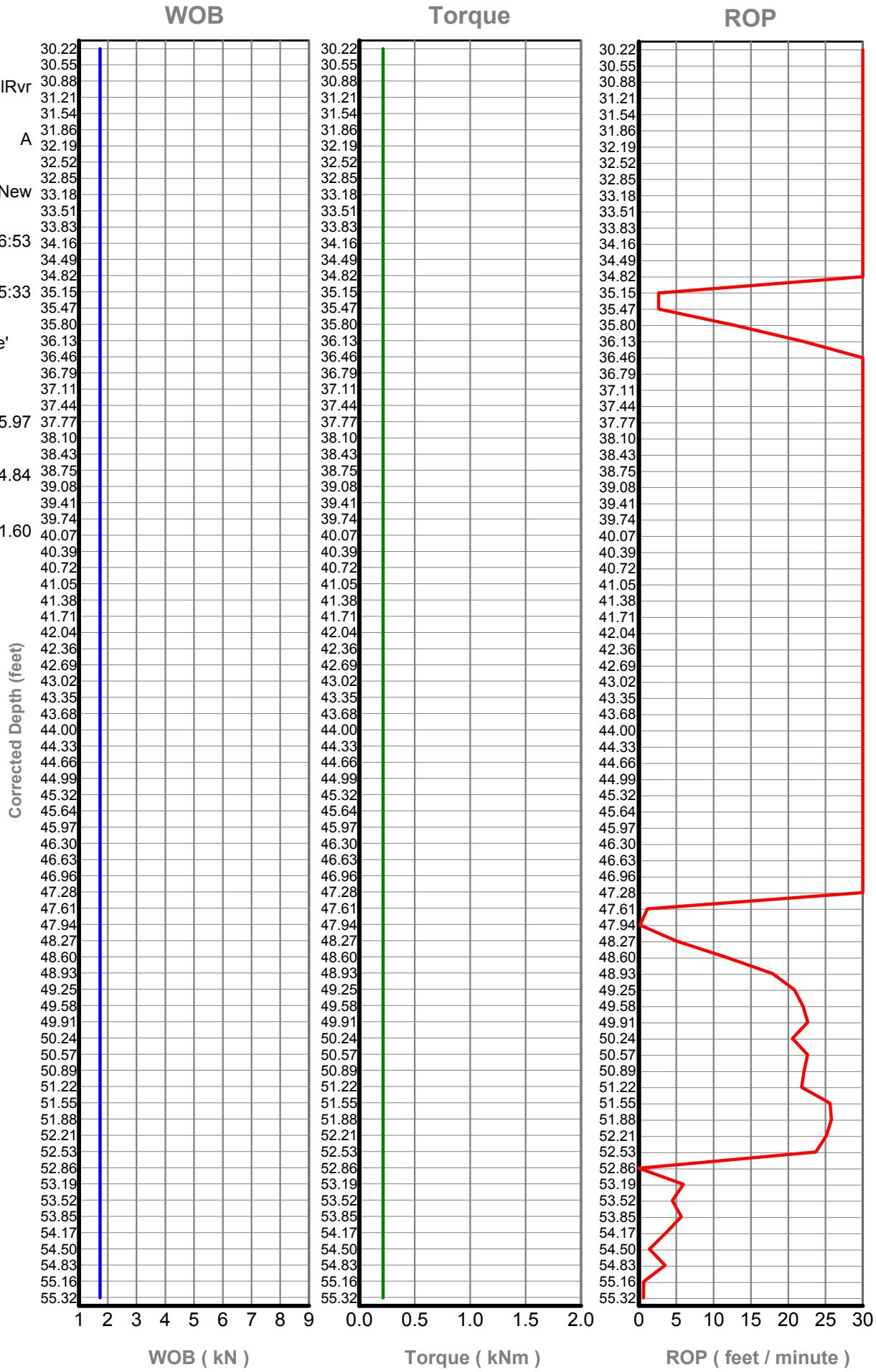
**End Date:**
4/20/2015 21:15:33

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
368,215.97

**Easting:**
253,414.84

**Tide (feet):**
1.60



## Hole: E245 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:51:41 | 36.42 | 30.32 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 15:51:41 | 36.75 | 30.65 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 15:51:42 | 37.07 | 30.97 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 15:51:42 | 37.40 | 31.30 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 15:51:42 | 37.73 | 31.63 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 15:51:43 | 38.06 | 31.96 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:43 | 38.39 | 32.29 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:43 | 38.71 | 32.61 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:44 | 39.04 | 32.94 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:45 | 39.37 | 33.27 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:45 | 39.70 | 33.60 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:45 | 40.03 | 33.93 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:45 | 40.35 | 34.25 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:46 | 40.68 | 34.58 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:46 | 41.01 | 34.91 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:46 | 41.34 | 35.24 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:47 | 41.67 | 35.57 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:47 | 41.99 | 35.89 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:47 | 42.32 | 36.22 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:48 | 42.65 | 36.55 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:48 | 42.98 | 36.88 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:51:48 | 43.31 | 37.21 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:51:49 | 43.64 | 37.54 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:51:49 | 43.96 | 37.86 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:51:49 | 44.29 | 38.19 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:50 | 44.62 | 38.52 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:51:50 | 44.95 | 38.85 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:51:50 | 45.28 | 39.18 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:51 | 45.60 | 39.50 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:51:51 | 45.93 | 39.83 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:51:51 | 46.26 | 40.16 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:52 | 46.59 | 40.49 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 15:51:52 | 46.92 | 40.82 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:51:52 | 47.24 | 41.14 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:53 | 47.57 | 41.47 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:53 | 47.90 | 41.80 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 15:51:53 | 48.23 | 42.13 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:54 | 48.56 | 42.46 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:54 | 48.88 | 42.78 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 15:51:54 | 49.21 | 43.11 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:55 | 49.54 | 43.44 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:55 | 49.87 | 43.77 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 15:51:56 | 50.20 | 44.10 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:56 | 50.53 | 44.43 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:56 | 50.85 | 44.75 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:51:57 | 51.18 | 45.08 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:57 | 51.51 | 45.41 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:57 | 51.84 | 45.74 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 15:51:58 | 52.17 | 46.07 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:58 | 52.49 | 46.39 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 15:51:58 | 52.82 | 46.72 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 15:51:59 | 53.15 | 47.05 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 15:51:59 | 53.48 | 47.38 | 1,047 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 15:51:59 | 53.81 | 47.71 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:52:00 | 54.13 | 48.03 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:52:00 | 54.46 | 48.36 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 15:52:13 | 54.79 | 48.69 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 15:52:13 | 55.12 | 49.02 | 97 | 1.73 | 0.21 | 5.3 |
| 4/21/2015 15:52:14 | 55.45 | 49.35 | 291 | 1.73 | 0.21 | 15.9 |
| 4/21/2015 15:52:14 | 55.77 | 49.67 | 291 | 1.73 | 0.21 | 15.9 |
| 4/21/2015 15:52:14 | 56.10 | 50.00 | 483 | 1.73 | 0.21 | 26.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:52:15 | 56.43 | 50.33 | 674 | 1.73 | 0.21 | 36.8 |
| 4/21/2015 | 15:52:15 | 56.76 | 50.66 | 674 | 1.73 | 0.21 | 36.8 |
| 4/21/2015 | 15:52:15 | 57.09 | 50.99 | 857 | 1.73 | 0.21 | 46.9 |
| 4/21/2015 | 15:52:16 | 57.41 | 51.31 | 882 | 1.73 | 0.21 | 48.2 |
| 4/21/2015 | 15:52:16 | 57.74 | 51.64 | 836 | 1.73 | 0.21 | 45.7 |
| 4/21/2015 | 15:52:17 | 58.07 | 51.97 | 792 | 1.73 | 0.21 | 43.3 |
| 4/21/2015 | 15:52:17 | 58.40 | 52.30 | 738 | 1.73 | 0.21 | 40.3 |
| 4/21/2015 | 15:52:18 | 58.73 | 52.63 | 696 | 1.73 | 0.21 | 38.1 |
| 4/21/2015 | 15:52:19 | 59.06 | 52.96 | 711 | 1.73 | 0.21 | 38.9 |
| 4/21/2015 | 15:52:19 | 59.38 | 53.28 | 704 | 1.73 | 0.21 | 38.5 |
| 4/21/2015 | 15:52:20 | 59.71 | 53.61 | 694 | 1.73 | 0.21 | 37.9 |
| 4/21/2015 | 15:52:20 | 60.04 | 53.94 | 698 | 1.73 | 0.21 | 38.2 |
| 4/21/2015 | 15:52:21 | 60.37 | 54.27 | 694 | 1.73 | 0.21 | 37.9 |
| 4/21/2015 | 15:52:21 | 60.70 | 54.60 | 698 | 1.73 | 0.21 | 38.2 |
| 4/21/2015 | 15:52:22 | 61.02 | 54.92 | 691 | 1.73 | 0.21 | 37.8 |
| 4/21/2015 | 15:52:22 | 61.35 | 55.25 | 692 | 1.73 | 0.21 | 37.8 |
| 4/21/2015 | 15:52:23 | 61.68 | 55.58 | 685 | 1.73 | 0.21 | 37.5 |
| 4/21/2015 | 15:52:44 | 61.75 | 55.65 | 0 | 1.73 | 0.21 | 0.0 |

## E245 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:50:09

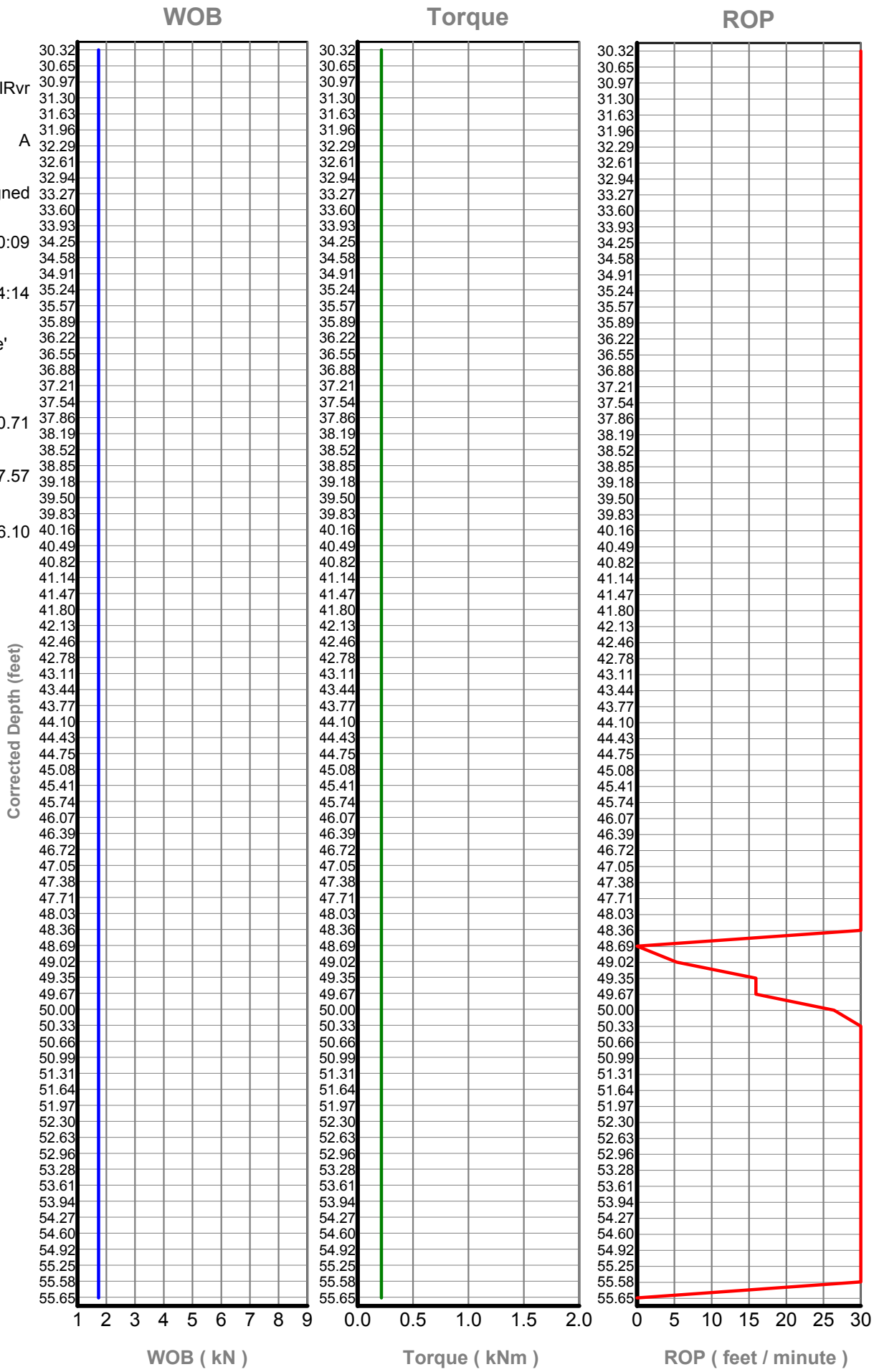
**End Date:**
4/21/2015 15:54:14

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,740.71

**Easting:**
253,307.57

**Tide (feet):**
6.10



## Hole: E246 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 15:57:51 | 36.42 | 30.32 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:57:52 | 36.75 | 30.65 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:57:52 | 37.07 | 30.97 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 15:57:52 | 37.40 | 31.30 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 15:57:53 | 37.73 | 31.63 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:57:53 | 38.06 | 31.96 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 15:57:54 | 38.39 | 32.29 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 15:57:54 | 38.71 | 32.61 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 15:57:55 | 39.04 | 32.94 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 15:57:55 | 39.37 | 33.27 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:57:55 | 39.70 | 33.60 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:57:55 | 40.03 | 33.93 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:57:56 | 40.35 | 34.25 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 15:57:56 | 40.68 | 34.58 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 15:57:56 | 41.01 | 34.91 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 15:57:57 | 41.34 | 35.24 | 1,111 | 1.73 | 0.21 | 60.7 |
| 4/21/2015 15:57:57 | 41.67 | 35.57 | 1,111 | 1.73 | 0.21 | 60.7 |
| 4/21/2015 15:57:57 | 41.99 | 35.89 | 1,104 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:57:58 | 42.32 | 36.22 | 1,104 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:57:58 | 42.65 | 36.55 | 1,114 | 1.73 | 0.21 | 60.9 |
| 4/21/2015 15:57:58 | 42.98 | 36.88 | 1,117 | 1.73 | 0.21 | 61.1 |
| 4/21/2015 15:57:59 | 43.31 | 37.21 | 1,117 | 1.73 | 0.21 | 61.1 |
| 4/21/2015 15:57:59 | 43.64 | 37.54 | 1,111 | 1.73 | 0.21 | 60.8 |
| 4/21/2015 15:57:59 | 43.96 | 37.86 | 1,111 | 1.73 | 0.21 | 60.8 |
| 4/21/2015 15:57:59 | 44.29 | 38.19 | 1,108 | 1.73 | 0.21 | 60.6 |
| 4/21/2015 15:58:00 | 44.62 | 38.52 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:58:00 | 44.95 | 38.85 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:58:00 | 45.28 | 39.18 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:58:01 | 45.60 | 39.50 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 15:58:01 | 45.93 | 39.83 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 15:58:01 | 46.26 | 40.16 | 1,108 | 1.73 | 0.21 | 60.6 |
| 4/21/2015 15:58:02 | 46.59 | 40.49 | 1,108 | 1.73 | 0.21 | 60.6 |
| 4/21/2015 15:58:02 | 46.92 | 40.82 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 15:58:02 | 47.24 | 41.14 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:58:03 | 47.57 | 41.47 | 1,105 | 1.73 | 0.21 | 60.4 |
| 4/21/2015 15:58:03 | 47.90 | 41.80 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 15:58:03 | 48.23 | 42.13 | 1,100 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 15:58:04 | 48.56 | 42.46 | 1,100 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 15:58:04 | 48.88 | 42.78 | 1,087 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 15:58:04 | 49.21 | 43.11 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 15:58:05 | 49.54 | 43.44 | 1,081 | 1.73 | 0.21 | 59.1 |
| 4/21/2015 15:58:05 | 49.87 | 43.77 | 1,085 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:06 | 50.20 | 44.10 | 1,085 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:06 | 50.53 | 44.43 | 1,094 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 15:58:06 | 50.85 | 44.75 | 1,085 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:07 | 51.18 | 45.08 | 1,085 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:07 | 51.51 | 45.41 | 1,091 | 1.73 | 0.21 | 59.7 |
| 4/21/2015 15:58:07 | 51.84 | 45.74 | 1,101 | 1.73 | 0.21 | 60.2 |
| 4/21/2015 15:58:08 | 52.17 | 46.07 | 1,101 | 1.73 | 0.21 | 60.2 |
| 4/21/2015 15:58:08 | 52.49 | 46.39 | 1,091 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 15:58:08 | 52.82 | 46.72 | 1,091 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 15:58:08 | 53.15 | 47.05 | 1,087 | 1.73 | 0.21 | 59.5 |
| 4/21/2015 15:58:09 | 53.48 | 47.38 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:09 | 53.81 | 47.71 | 1,084 | 1.73 | 0.21 | 59.3 |
| 4/21/2015 15:58:09 | 54.13 | 48.03 | 1,082 | 1.73 | 0.21 | 59.2 |
| 4/21/2015 15:58:10 | 54.46 | 48.36 | 1,076 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 15:58:10 | 54.79 | 48.69 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:58:11 | 55.12 | 49.02 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 15:58:11 | 55.45 | 49.35 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 15:58:11 | 55.77 | 49.67 | 956 | 1.73 | 0.21 | 52.3 |
| 4/21/2015 15:58:12 | 56.10 | 50.00 | 904 | 1.73 | 0.21 | 49.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 15:58:12 | 56.43 | 50.33 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 15:58:13 | 56.76 | 50.66 | 861 | 1.73 | 0.21 | 47.1 |
| 4/21/2015 | 15:58:13 | 57.09 | 50.99 | 853 | 1.73 | 0.21 | 46.6 |
| 4/21/2015 | 15:58:13 | 57.41 | 51.31 | 849 | 1.73 | 0.21 | 46.4 |
| 4/21/2015 | 15:58:14 | 57.74 | 51.64 | 835 | 1.73 | 0.21 | 45.7 |
| 4/21/2015 | 15:58:14 | 58.07 | 51.97 | 834 | 1.73 | 0.21 | 45.6 |
| 4/21/2015 | 15:58:15 | 58.40 | 52.30 | 824 | 1.73 | 0.21 | 45.1 |
| 4/21/2015 | 15:58:15 | 58.73 | 52.63 | 824 | 1.73 | 0.21 | 45.1 |
| 4/21/2015 | 15:58:15 | 59.06 | 52.96 | 823 | 1.73 | 0.21 | 45.0 |
| 4/21/2015 | 15:58:16 | 59.38 | 53.28 | 809 | 1.73 | 0.21 | 44.3 |
| 4/21/2015 | 15:58:17 | 59.71 | 53.61 | 804 | 1.73 | 0.21 | 43.9 |
| 4/21/2015 | 15:58:17 | 60.04 | 53.94 | 798 | 1.73 | 0.21 | 43.6 |
| 4/21/2015 | 15:58:18 | 60.37 | 54.27 | 803 | 1.73 | 0.21 | 43.9 |
| 4/21/2015 | 15:58:18 | 60.70 | 54.60 | 795 | 1.73 | 0.21 | 43.5 |
| 4/21/2015 | 15:58:19 | 61.02 | 54.92 | 795 | 1.73 | 0.21 | 43.5 |
| 4/21/2015 | 15:58:19 | 61.35 | 55.25 | 794 | 1.73 | 0.21 | 43.4 |
| 4/21/2015 | 15:58:19 | 61.68 | 55.58 | 796 | 1.73 | 0.21 | 43.5 |
| 4/21/2015 | 15:58:19 | 61.74 | 55.64 | 796 | 1.73 | 0.21 | 43.5 |

## E246 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 15:56:24

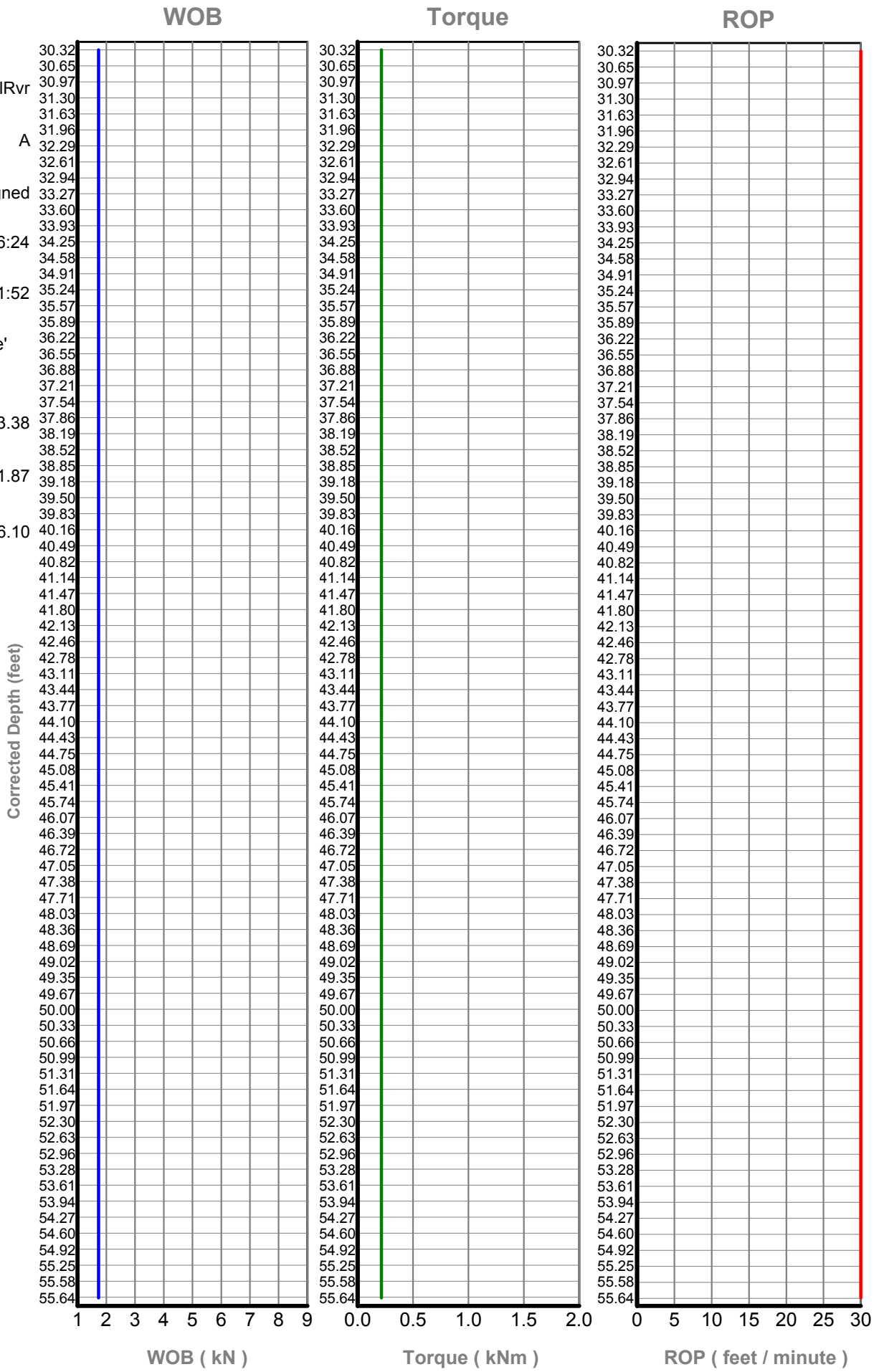
**End Date:**
4/21/2015 16:01:52

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,703.38

**Easting:**
253,261.87

**Tide (feet):**
6.10



## Hole: E247 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 3:02:15 | 36.75 | 30.05 | 939 | 0.32 | 0.33 | 51.4 |
| 4/22/2015 3:02:15 | 37.07 | 30.37 | 948 | 0.31 | 0.33 | 51.9 |
| 4/22/2015 3:02:16 | 37.40 | 30.70 | 957 | 0.31 | 0.33 | 52.3 |
| 4/22/2015 3:02:16 | 37.73 | 31.03 | 957 | 0.31 | 0.33 | 52.3 |
| 4/22/2015 3:02:16 | 38.06 | 31.36 | 935 | 0.43 | 0.34 | 51.1 |
| 4/22/2015 3:02:17 | 38.39 | 31.69 | 935 | 0.45 | 0.34 | 51.1 |
| 4/22/2015 3:02:17 | 38.71 | 32.01 | 935 | 0.45 | 0.34 | 51.1 |
| 4/22/2015 3:02:17 | 39.04 | 32.34 | 952 | 0.38 | 0.33 | 52.0 |
| 4/22/2015 3:02:18 | 39.37 | 32.67 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 3:02:18 | 39.70 | 33.00 | 957 | 0.31 | 0.33 | 52.3 |
| 4/22/2015 3:02:19 | 40.03 | 33.33 | 957 | 0.31 | 0.33 | 52.3 |
| 4/22/2015 3:02:19 | 40.35 | 33.65 | 952 | 0.51 | 0.35 | 52.0 |
| 4/22/2015 3:02:19 | 40.68 | 33.98 | 979 | 0.45 | 0.34 | 53.5 |
| 4/22/2015 3:02:20 | 41.01 | 34.31 | 979 | 0.45 | 0.34 | 53.5 |
| 4/22/2015 3:02:20 | 41.34 | 34.64 | 957 | 0.46 | 0.35 | 52.3 |
| 4/22/2015 3:02:20 | 41.67 | 34.97 | 948 | 0.48 | 0.35 | 51.8 |
| 4/22/2015 3:02:21 | 41.99 | 35.29 | 939 | 0.48 | 0.34 | 51.4 |
| 4/22/2015 3:02:21 | 42.32 | 35.62 | 939 | 0.48 | 0.34 | 51.4 |
| 4/22/2015 3:02:21 | 42.65 | 35.95 | 931 | 0.45 | 0.35 | 50.9 |
| 4/22/2015 3:02:22 | 42.98 | 36.28 | 922 | 0.45 | 0.35 | 50.4 |
| 4/22/2015 3:02:22 | 43.31 | 36.61 | 922 | 0.45 | 0.34 | 50.4 |
| 4/22/2015 3:02:23 | 43.64 | 36.94 | 922 | 0.45 | 0.34 | 50.4 |
| 4/22/2015 3:02:23 | 43.96 | 37.26 | 920 | 0.45 | 0.34 | 50.3 |
| 4/22/2015 3:02:23 | 44.29 | 37.59 | 928 | 0.44 | 0.35 | 50.7 |
| 4/22/2015 3:02:24 | 44.62 | 37.92 | 928 | 0.44 | 0.34 | 50.7 |
| 4/22/2015 3:02:24 | 44.95 | 38.25 | 928 | 0.44 | 0.34 | 50.7 |
| 4/22/2015 3:02:25 | 45.28 | 38.58 | 925 | 0.45 | 0.35 | 50.6 |
| 4/22/2015 3:02:25 | 45.60 | 38.90 | 920 | 0.44 | 0.34 | 50.3 |
| 4/22/2015 3:02:26 | 45.93 | 39.23 | 931 | 0.42 | 0.33 | 50.9 |
| 4/22/2015 3:02:26 | 46.26 | 39.56 | 931 | 0.42 | 0.33 | 50.9 |
| 4/22/2015 3:02:26 | 46.59 | 39.89 | 920 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 3:02:27 | 46.92 | 40.22 | 926 | 0.32 | 0.33 | 50.6 |
| 4/22/2015 3:02:27 | 47.24 | 40.54 | 926 | 0.32 | 0.33 | 50.6 |
| 4/22/2015 3:02:28 | 47.57 | 40.87 | 926 | 0.32 | 0.33 | 50.6 |
| 4/22/2015 3:02:28 | 47.90 | 41.20 | 958 | 0.31 | 0.33 | 52.4 |
| 4/22/2015 3:02:28 | 48.23 | 41.53 | 958 | 0.33 | 0.33 | 52.4 |
| 4/22/2015 3:02:29 | 48.56 | 41.86 | 958 | 0.33 | 0.33 | 52.4 |
| 4/22/2015 3:02:41 | 48.88 | 42.18 | 0 | 0.31 | 0.34 | 0.0 |
| 4/22/2015 3:02:41 | 49.21 | 42.51 | 116 | 0.33 | 0.33 | 6.3 |
| 4/22/2015 3:02:42 | 49.54 | 42.84 | 116 | 0.33 | 0.33 | 6.3 |
| 4/22/2015 3:02:42 | 49.87 | 43.17 | 116 | 0.32 | 0.33 | 6.3 |
| 4/22/2015 3:02:42 | 50.20 | 43.50 | 313 | 0.32 | 0.33 | 17.1 |
| 4/22/2015 3:02:43 | 50.53 | 43.83 | 505 | 0.32 | 0.33 | 27.6 |
| 4/22/2015 3:02:43 | 50.85 | 44.15 | 505 | 0.32 | 0.33 | 27.6 |
| 4/22/2015 3:02:43 | 51.18 | 44.48 | 699 | 0.32 | 0.34 | 38.2 |
| 4/22/2015 3:02:44 | 51.51 | 44.81 | 887 | 0.33 | 0.34 | 48.5 |
| 4/22/2015 3:02:45 | 51.84 | 45.14 | 887 | 0.33 | 0.34 | 48.5 |
| 4/22/2015 3:02:45 | 52.17 | 45.47 | 942 | 0.32 | 0.33 | 51.5 |
| 4/22/2015 3:02:45 | 52.49 | 45.79 | 934 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 3:02:46 | 52.82 | 46.12 | 920 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 3:02:46 | 53.15 | 46.45 | 920 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 3:02:46 | 53.48 | 46.78 | 920 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 3:02:47 | 53.81 | 47.11 | 925 | 0.33 | 0.33 | 50.6 |
| 4/22/2015 3:02:47 | 54.13 | 47.43 | 925 | 0.33 | 0.33 | 50.6 |
| 4/22/2015 3:02:48 | 54.46 | 47.76 | 925 | 0.33 | 0.33 | 50.6 |
| 4/22/2015 3:02:48 | 54.79 | 48.09 | 934 | 0.33 | 0.34 | 51.1 |
| 4/22/2015 3:02:48 | 55.12 | 48.42 | 921 | 0.33 | 0.34 | 50.4 |
| 4/22/2015 3:02:49 | 55.45 | 48.75 | 921 | 0.33 | 0.34 | 50.4 |
| 4/22/2015 3:02:49 | 55.77 | 49.07 | 921 | 0.33 | 0.34 | 50.4 |
| 4/22/2015 3:02:49 | 56.10 | 49.40 | 906 | 0.33 | 0.34 | 49.6 |
| 4/22/2015 3:02:50 | 56.43 | 49.73 | 906 | 0.33 | 0.34 | 49.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 3:02:50 | 56.76 | 50.06 | 909 | 0.32 | 0.34 | 49.7 |
| 4/22/2015 | 3:02:51 | 57.09 | 50.39 | 856 | 0.32 | 0.34 | 46.8 |
| 4/22/2015 | 3:02:51 | 57.41 | 50.71 | 856 | 0.32 | 0.34 | 46.8 |
| 4/22/2015 | 3:02:52 | 57.74 | 51.04 | 856 | 0.32 | 0.34 | 46.8 |
| 4/22/2015 | 3:02:52 | 58.07 | 51.37 | 821 | 0.32 | 0.34 | 44.9 |
| 4/22/2015 | 3:02:52 | 58.40 | 51.70 | 830 | 0.32 | 0.34 | 45.4 |
| 4/22/2015 | 3:02:53 | 58.73 | 52.03 | 824 | 0.32 | 0.34 | 45.1 |
| 4/22/2015 | 3:02:53 | 59.06 | 52.36 | 792 | 0.33 | 0.34 | 43.3 |
| 4/22/2015 | 3:02:54 | 59.38 | 52.68 | 804 | 0.33 | 0.34 | 44.0 |
| 4/22/2015 | 3:02:54 | 59.71 | 53.01 | 804 | 0.33 | 0.34 | 44.0 |
| 4/22/2015 | 3:02:54 | 60.04 | 53.34 | 804 | 0.33 | 0.35 | 44.0 |
| 4/22/2015 | 3:02:55 | 60.37 | 53.67 | 814 | 0.32 | 0.36 | 44.5 |
| 4/22/2015 | 3:02:55 | 60.70 | 54.00 | 788 | 0.31 | 0.36 | 43.1 |
| 4/22/2015 | 3:02:57 | 61.02 | 54.32 | 715 | 0.31 | 0.36 | 39.1 |
| 4/22/2015 | 3:02:57 | 61.35 | 54.65 | 675 | 0.31 | 0.36 | 36.9 |
| 4/22/2015 | 3:02:58 | 61.68 | 54.98 | 610 | 0.32 | 0.36 | 33.4 |
| 4/22/2015 | 3:02:58 | 62.00 | 55.30 | 578 | 0.27 | 0.38 | 31.6 |

## E247 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:49:10

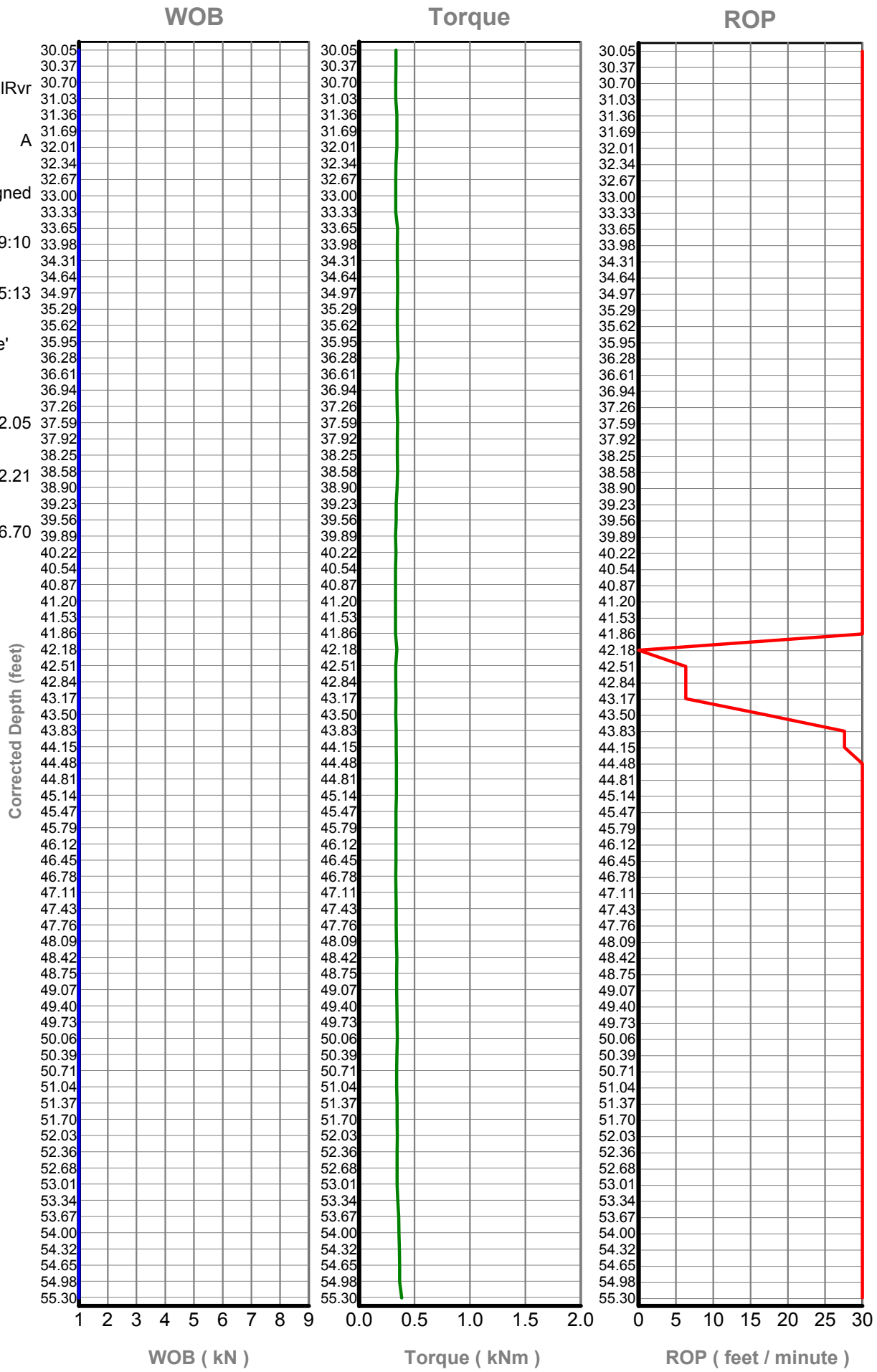
**End Date:**
4/22/2015 3:05:13

**Operator Note:**
'6.7 6.7 b Auto Complete'

**Northing:**
367,912.05

**Easting:**
252,802.21

**Tide (feet):**
6.70



## Hole: E248 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:38:15 | 36.42 | 30.12 | 977 | 0.30 | 0.32 | 53.4 |
| 4/22/2015 2:38:15 | 36.75 | 30.45 | 980 | 0.30 | 0.32 | 53.6 |
| 4/22/2015 2:38:16 | 37.07 | 30.77 | 968 | 0.30 | 0.32 | 52.9 |
| 4/22/2015 2:38:16 | 37.40 | 31.10 | 977 | 0.29 | 0.32 | 53.4 |
| 4/22/2015 2:38:17 | 37.73 | 31.43 | 977 | 0.29 | 0.32 | 53.4 |
| 4/22/2015 2:38:17 | 38.06 | 31.76 | 974 | 0.30 | 0.32 | 53.3 |
| 4/22/2015 2:38:17 | 38.39 | 32.09 | 974 | 0.30 | 0.32 | 53.3 |
| 4/22/2015 2:38:18 | 38.71 | 32.41 | 974 | 0.30 | 0.32 | 53.3 |
| 4/22/2015 2:38:18 | 39.04 | 32.74 | 977 | 0.23 | 0.32 | 53.4 |
| 4/22/2015 2:38:19 | 39.37 | 33.07 | 983 | 0.30 | 0.32 | 53.7 |
| 4/22/2015 2:38:19 | 39.70 | 33.40 | 983 | 0.30 | 0.32 | 53.7 |
| 4/22/2015 2:38:19 | 40.03 | 33.73 | 983 | 0.30 | 0.32 | 53.7 |
| 4/22/2015 2:38:20 | 40.35 | 34.05 | 980 | 0.31 | 0.32 | 53.6 |
| 4/22/2015 2:38:20 | 40.68 | 34.38 | 977 | 0.30 | 0.32 | 53.4 |
| 4/22/2015 2:38:21 | 41.01 | 34.71 | 977 | 0.30 | 0.32 | 53.4 |
| 4/22/2015 2:38:21 | 41.34 | 35.04 | 986 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 2:38:21 | 41.67 | 35.37 | 980 | 0.30 | 0.32 | 53.6 |
| 4/22/2015 2:38:22 | 41.99 | 35.69 | 980 | 0.30 | 0.32 | 53.6 |
| 4/22/2015 2:38:22 | 42.32 | 36.02 | 980 | 0.30 | 0.32 | 53.6 |
| 4/22/2015 2:38:22 | 42.65 | 36.35 | 983 | 0.30 | 0.32 | 53.8 |
| 4/22/2015 2:38:23 | 42.98 | 36.68 | 983 | 0.30 | 0.32 | 53.8 |
| 4/22/2015 2:38:23 | 43.31 | 37.01 | 986 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 2:38:23 | 43.64 | 37.34 | 971 | 0.31 | 0.32 | 53.1 |
| 4/22/2015 2:38:24 | 43.96 | 37.66 | 956 | 0.30 | 0.32 | 52.3 |
| 4/22/2015 2:38:24 | 44.29 | 37.99 | 956 | 0.30 | 0.32 | 52.3 |
| 4/22/2015 2:38:24 | 44.62 | 38.32 | 956 | 0.31 | 0.32 | 52.3 |
| 4/22/2015 2:38:25 | 44.95 | 38.65 | 970 | 0.31 | 0.32 | 53.1 |
| 4/22/2015 2:38:25 | 45.28 | 38.98 | 970 | 0.31 | 0.32 | 53.1 |
| 4/22/2015 2:38:25 | 45.60 | 39.30 | 970 | 0.31 | 0.32 | 53.0 |
| 4/22/2015 2:38:26 | 45.93 | 39.63 | 974 | 0.31 | 0.32 | 53.2 |
| 4/22/2015 2:38:26 | 46.26 | 39.96 | 974 | 0.31 | 0.32 | 53.2 |
| 4/22/2015 2:38:26 | 46.59 | 40.29 | 973 | 0.31 | 0.32 | 53.2 |
| 4/22/2015 2:38:27 | 46.92 | 40.62 | 992 | 0.30 | 0.32 | 54.2 |
| 4/22/2015 2:38:27 | 47.24 | 40.94 | 977 | 0.31 | 0.32 | 53.4 |
| 4/22/2015 2:38:28 | 47.57 | 41.27 | 977 | 0.31 | 0.32 | 53.4 |
| 4/22/2015 2:38:28 | 47.90 | 41.60 | 977 | 0.31 | 0.32 | 53.4 |
| 4/22/2015 2:38:29 | 48.23 | 41.93 | 971 | 0.32 | 0.31 | 53.1 |
| 4/22/2015 2:38:29 | 48.56 | 42.26 | 971 | 0.32 | 0.31 | 53.1 |
| 4/22/2015 2:38:29 | 48.88 | 42.58 | 986 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 2:38:30 | 49.21 | 42.91 | 983 | 0.31 | 0.32 | 53.8 |
| 4/22/2015 2:38:30 | 49.54 | 43.24 | 983 | 0.31 | 0.32 | 53.8 |
| 4/22/2015 2:38:30 | 49.87 | 43.57 | 980 | 0.31 | 0.32 | 53.6 |
| 4/22/2015 2:38:31 | 50.20 | 43.90 | 980 | 0.31 | 0.32 | 53.6 |
| 4/22/2015 2:38:31 | 50.53 | 44.23 | 974 | 0.36 | 0.32 | 53.3 |
| 4/22/2015 2:38:32 | 50.85 | 44.55 | 974 | 0.36 | 0.32 | 53.3 |
| 4/22/2015 2:38:32 | 51.18 | 44.88 | 975 | 0.37 | 0.32 | 53.3 |
| 4/22/2015 2:38:32 | 51.51 | 45.21 | 972 | 0.37 | 0.32 | 53.1 |
| 4/22/2015 2:38:33 | 51.84 | 45.54 | 972 | 0.37 | 0.32 | 53.1 |
| 4/22/2015 2:38:33 | 52.17 | 45.87 | 960 | 0.36 | 0.32 | 52.5 |
| 4/22/2015 2:38:33 | 52.49 | 46.19 | 958 | 0.37 | 0.32 | 52.4 |
| 4/22/2015 2:38:34 | 52.82 | 46.52 | 935 | 0.37 | 0.32 | 51.1 |
| 4/22/2015 2:38:34 | 53.15 | 46.85 | 935 | 0.37 | 0.32 | 51.1 |
| 4/22/2015 2:38:34 | 53.48 | 47.18 | 935 | 0.36 | 0.33 | 51.1 |
| 4/22/2015 2:38:35 | 53.81 | 47.51 | 929 | 0.36 | 0.32 | 50.8 |
| 4/22/2015 2:38:35 | 54.13 | 47.83 | 926 | 0.33 | 0.32 | 50.6 |
| 4/22/2015 2:38:36 | 54.46 | 48.16 | 926 | 0.33 | 0.32 | 50.6 |
| 4/22/2015 2:38:36 | 54.79 | 48.49 | 941 | 0.31 | 0.32 | 51.4 |
| 4/22/2015 2:38:36 | 55.12 | 48.82 | 907 | 0.31 | 0.32 | 49.6 |
| 4/22/2015 2:38:37 | 55.45 | 49.15 | 907 | 0.31 | 0.32 | 49.6 |
| 4/22/2015 2:38:37 | 55.77 | 49.47 | 935 | 0.30 | 0.32 | 51.1 |
| 4/22/2015 2:38:37 | 56.10 | 49.80 | 935 | 0.30 | 0.34 | 51.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:38:38 | 56.43 | 50.13 | 934 | 0.31 | 0.33 | 51.0 |
| 4/22/2015 | 2:38:38 | 56.76 | 50.46 | 915 | 0.31 | 0.34 | 50.0 |
| 4/22/2015 | 2:38:39 | 57.09 | 50.79 | 915 | 0.31 | 0.34 | 50.0 |
| 4/22/2015 | 2:38:39 | 57.41 | 51.11 | 863 | 0.30 | 0.34 | 47.2 |
| 4/22/2015 | 2:38:40 | 57.74 | 51.44 | 860 | 0.30 | 0.34 | 47.0 |
| 4/22/2015 | 2:38:40 | 58.07 | 51.77 | 821 | 0.30 | 0.34 | 44.9 |
| 4/22/2015 | 2:38:41 | 58.40 | 52.10 | 779 | 0.30 | 0.34 | 42.6 |
| 4/22/2015 | 2:38:41 | 58.73 | 52.43 | 757 | 0.30 | 0.34 | 41.4 |
| 4/22/2015 | 2:38:42 | 59.06 | 52.76 | 757 | 0.30 | 0.34 | 41.4 |
| 4/22/2015 | 2:38:42 | 59.38 | 53.08 | 753 | 0.30 | 0.34 | 41.2 |
| 4/22/2015 | 2:38:43 | 59.71 | 53.41 | 743 | 0.31 | 0.34 | 40.6 |
| 4/22/2015 | 2:38:43 | 60.04 | 53.74 | 741 | 0.30 | 0.34 | 40.5 |
| 4/22/2015 | 2:38:44 | 60.37 | 54.07 | 755 | 0.30 | 0.34 | 41.3 |
| 4/22/2015 | 2:38:44 | 60.70 | 54.40 | 755 | 0.30 | 0.34 | 41.3 |
| 4/22/2015 | 2:38:44 | 61.02 | 54.72 | 755 | 0.30 | 0.34 | 41.3 |
| 4/22/2015 | 2:38:45 | 61.35 | 55.05 | 752 | 0.29 | 0.34 | 41.1 |
| 4/22/2015 | 2:38:45 | 61.68 | 55.38 | 749 | 0.30 | 0.35 | 40.9 |
| 4/22/2015 | 2:38:45 | 61.76 | 55.46 | 749 | 0.30 | 0.35 | 40.9 |

## E248 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:26:15

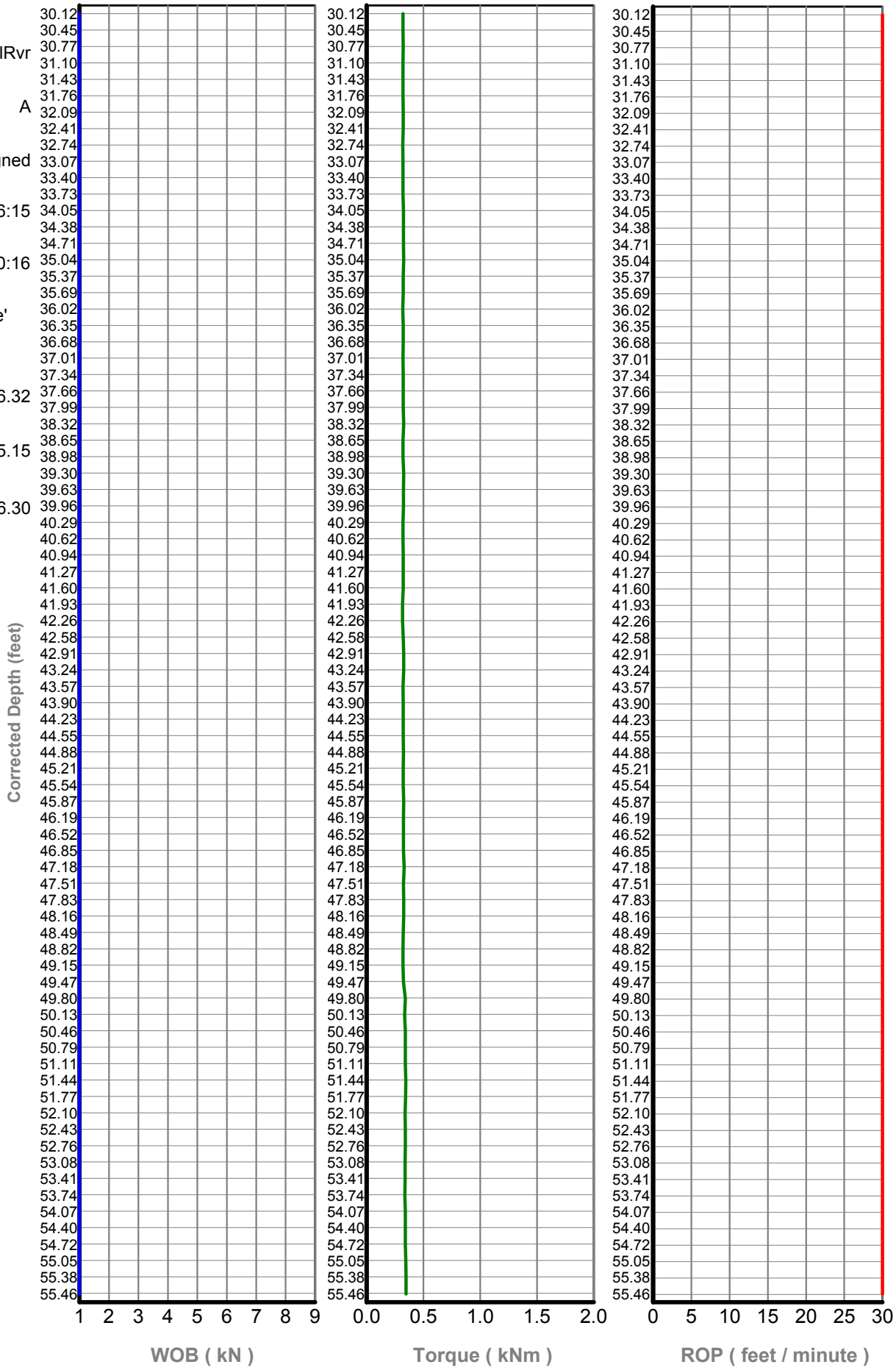
**End Date:**
4/22/2015 2:40:16

**Operator Note:**
'6.3 6.3 b Auto Complete'

**Northing:**
367,966.32

**Easting:**
252,755.15

**Tide (feet):**
6.30



## Hole: E249 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:14:58 | 36.42 | 30.32 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/22/2015 2:14:58 | 36.75 | 30.65 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:14:59 | 37.07 | 30.97 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 2:14:59 | 37.40 | 31.30 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 2:14:59 | 37.73 | 31.63 | 990 | 0.31 | 0.32 | 54.1 |
| 4/22/2015 2:15:00 | 38.06 | 31.96 | 990 | 0.31 | 0.31 | 54.1 |
| 4/22/2015 2:15:00 | 38.39 | 32.29 | 990 | 0.31 | 0.31 | 54.1 |
| 4/22/2015 2:15:00 | 38.71 | 32.61 | 995 | 0.31 | 0.31 | 54.4 |
| 4/22/2015 2:15:01 | 39.04 | 32.94 | 995 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 2:15:01 | 39.37 | 33.27 | 995 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 2:15:01 | 39.70 | 33.60 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 2:15:02 | 40.03 | 33.93 | 998 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 2:15:02 | 40.35 | 34.25 | 998 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 2:15:03 | 40.68 | 34.58 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 2:15:03 | 41.01 | 34.91 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 2:15:03 | 41.34 | 35.24 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 2:15:04 | 41.67 | 35.57 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 2:15:04 | 41.99 | 35.89 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 2:15:05 | 42.32 | 36.22 | 999 | 0.31 | 0.32 | 54.6 |
| 4/22/2015 2:15:05 | 42.65 | 36.55 | 999 | 0.31 | 0.32 | 54.6 |
| 4/22/2015 2:15:05 | 42.98 | 36.88 | 1,014 | 0.31 | 0.32 | 55.4 |
| 4/22/2015 2:15:06 | 43.31 | 37.21 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:06 | 43.64 | 37.54 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:06 | 43.96 | 37.86 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 2:15:07 | 44.29 | 38.19 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 2:15:07 | 44.62 | 38.52 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 2:15:07 | 44.95 | 38.85 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 2:15:08 | 45.28 | 39.18 | 1,013 | 0.41 | 0.33 | 55.4 |
| 4/22/2015 2:15:08 | 45.60 | 39.50 | 1,013 | 0.41 | 0.33 | 55.4 |
| 4/22/2015 2:15:08 | 45.93 | 39.83 | 1,004 | 0.34 | 0.32 | 54.9 |
| 4/22/2015 2:15:09 | 46.26 | 40.16 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:09 | 46.59 | 40.49 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:09 | 46.92 | 40.82 | 1,001 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 2:15:10 | 47.24 | 41.14 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 2:15:10 | 47.57 | 41.47 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 2:15:10 | 47.90 | 41.80 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 2:15:11 | 48.23 | 42.13 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:11 | 48.56 | 42.46 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/22/2015 2:15:11 | 48.88 | 42.78 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/22/2015 2:15:12 | 49.21 | 43.11 | 1,009 | 0.35 | 0.31 | 55.2 |
| 4/22/2015 2:15:12 | 49.54 | 43.44 | 995 | 0.33 | 0.31 | 54.4 |
| 4/22/2015 2:15:13 | 49.87 | 43.77 | 995 | 0.33 | 0.31 | 54.4 |
| 4/22/2015 2:15:13 | 50.20 | 44.10 | 995 | 0.31 | 0.31 | 54.4 |
| 4/22/2015 2:15:14 | 50.53 | 44.43 | 998 | 0.35 | 0.32 | 54.6 |
| 4/22/2015 2:15:14 | 50.85 | 44.75 | 998 | 0.35 | 0.32 | 54.6 |
| 4/22/2015 2:15:14 | 51.18 | 45.08 | 995 | 0.32 | 0.32 | 54.4 |
| 4/22/2015 2:15:15 | 51.51 | 45.41 | 992 | 0.32 | 0.32 | 54.3 |
| 4/22/2015 2:15:15 | 51.84 | 45.74 | 992 | 0.32 | 0.32 | 54.3 |
| 4/22/2015 2:15:15 | 52.17 | 46.07 | 998 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 2:15:16 | 52.49 | 46.39 | 986 | 0.34 | 0.31 | 53.9 |
| 4/22/2015 2:15:16 | 52.82 | 46.72 | 986 | 0.34 | 0.31 | 53.9 |
| 4/22/2015 2:15:16 | 53.15 | 47.05 | 992 | 0.40 | 0.31 | 54.2 |
| 4/22/2015 2:15:17 | 53.48 | 47.38 | 992 | 0.35 | 0.32 | 54.2 |
| 4/22/2015 2:15:17 | 53.81 | 47.71 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 2:15:18 | 54.13 | 48.03 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 2:15:18 | 54.46 | 48.36 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 2:15:18 | 54.79 | 48.69 | 986 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 2:15:19 | 55.12 | 49.02 | 986 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 2:15:19 | 55.45 | 49.35 | 977 | 0.31 | 0.32 | 53.5 |
| 4/22/2015 2:15:19 | 55.77 | 49.67 | 977 | 0.31 | 0.32 | 53.5 |
| 4/22/2015 2:15:20 | 56.10 | 50.00 | 977 | 0.31 | 0.32 | 53.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:15:20 | 56.43 | 50.33 | 889 | 0.29 | 0.39 | 48.6 |
| 4/22/2015 | 2:15:48 | 56.76 | 50.66 | 43 | 4.22 | 0.38 | 2.3 |
| 4/22/2015 | 2:15:50 | 57.09 | 50.99 | 175 | 3.46 | 0.37 | 9.5 |
| 4/22/2015 | 2:15:51 | 57.41 | 51.31 | 256 | 7.32 | 0.38 | 14.0 |
| 4/22/2015 | 2:15:51 | 57.74 | 51.64 | 312 | 2.31 | 0.36 | 17.1 |
| 4/22/2015 | 2:15:52 | 58.07 | 51.97 | 414 | 2.90 | 0.38 | 22.6 |
| 4/22/2015 | 2:15:53 | 58.40 | 52.30 | 419 | 2.90 | 0.38 | 22.9 |
| 4/22/2015 | 2:15:54 | 58.73 | 52.63 | 439 | 3.70 | 0.37 | 24.0 |
| 4/22/2015 | 2:15:55 | 59.06 | 52.96 | 428 | 2.71 | 0.36 | 23.4 |
| 4/22/2015 | 2:15:56 | 59.38 | 53.28 | 445 | 2.14 | 0.35 | 24.3 |
| 4/22/2015 | 2:15:56 | 59.71 | 53.61 | 494 | 2.00 | 0.35 | 27.0 |
| 4/22/2015 | 2:15:57 | 60.04 | 53.94 | 541 | 1.96 | 0.30 | 29.6 |
| 4/22/2015 | 2:15:58 | 60.37 | 54.27 | 504 | 2.17 | 0.35 | 27.6 |
| 4/22/2015 | 2:15:58 | 60.70 | 54.60 | 551 | 2.16 | 0.35 | 30.2 |
| 4/22/2015 | 2:15:59 | 61.02 | 54.92 | 548 | 2.17 | 0.36 | 30.0 |
| 4/22/2015 | 2:15:59 | 61.24 | 55.14 | 525 | 2.41 | 0.40 | 28.7 |

## E249 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 2:06:00

**End Date:**
4/22/2015 2:17:02

**Operator Note:**
'6.1 6 b Auto Complete'

**Northing:**
368,029.13

**Easting:**
252,711.67

**Tide (feet):**
6.10



## Hole: E25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 21:16:33 | 30.84 | 30.24 | 958 | 1.93 | 0.22 | 52.4 |
| 4/19/2015 21:16:33 | 31.17 | 30.57 | 950 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 21:16:33 | 31.50 | 30.90 | 959 | 1.93 | 0.22 | 52.4 |
| 4/19/2015 21:16:34 | 31.82 | 31.22 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 21:16:34 | 32.15 | 31.55 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 21:16:34 | 32.48 | 31.88 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:16:35 | 32.81 | 32.21 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:16:35 | 33.14 | 32.54 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:16:35 | 33.46 | 32.86 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 21:16:36 | 33.79 | 33.19 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 21:16:36 | 34.12 | 33.52 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 21:16:36 | 34.45 | 33.85 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:16:37 | 34.78 | 34.18 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 21:16:37 | 35.11 | 34.51 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 21:16:38 | 35.43 | 34.83 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 21:16:38 | 35.76 | 35.16 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:17:26 | 36.09 | 35.49 | 26 | 1.93 | 0.22 | 1.4 |
| 4/19/2015 21:17:27 | 36.42 | 35.82 | 26 | 1.93 | 0.22 | 1.4 |
| 4/19/2015 21:17:27 | 36.75 | 36.15 | 208 | 1.93 | 0.22 | 11.4 |
| 4/19/2015 21:17:27 | 37.07 | 36.47 | 378 | 1.93 | 0.22 | 20.7 |
| 4/19/2015 21:17:28 | 37.40 | 36.80 | 378 | 1.93 | 0.22 | 20.7 |
| 4/19/2015 21:17:28 | 37.73 | 37.13 | 378 | 1.93 | 0.22 | 20.7 |
| 4/19/2015 21:17:28 | 38.06 | 37.46 | 568 | 1.93 | 0.22 | 31.0 |
| 4/19/2015 21:17:29 | 38.39 | 37.79 | 756 | 1.93 | 0.22 | 41.3 |
| 4/19/2015 21:17:46 | 38.71 | 38.11 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 21:17:51 | 39.04 | 38.44 | 58 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 21:18:01 | 39.37 | 38.77 | 52 | 1.93 | 0.22 | 2.8 |
| 4/19/2015 21:18:06 | 39.70 | 39.10 | 104 | 1.93 | 0.22 | 5.7 |
| 4/19/2015 21:18:08 | 40.03 | 39.43 | 128 | 1.93 | 0.22 | 7.0 |
| 4/19/2015 21:18:34 | 40.35 | 39.75 | 6 | 1.93 | 0.22 | 0.3 |
| 4/19/2015 21:18:41 | 40.68 | 40.08 | 60 | 1.93 | 0.22 | 3.3 |
| 4/19/2015 21:18:44 | 41.01 | 40.41 | 163 | 1.93 | 0.22 | 8.9 |
| 4/19/2015 21:18:46 | 41.34 | 40.74 | 128 | 1.93 | 0.22 | 7.0 |
| 4/19/2015 21:18:47 | 41.67 | 41.07 | 215 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 21:18:49 | 41.99 | 41.39 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 21:18:51 | 42.32 | 41.72 | 201 | 1.93 | 0.22 | 11.0 |
| 4/19/2015 21:18:55 | 42.65 | 42.05 | 64 | 1.93 | 0.22 | 3.5 |
| 4/19/2015 21:18:56 | 42.98 | 42.38 | 147 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 21:18:59 | 43.31 | 42.71 | 166 | 1.93 | 0.22 | 9.1 |
| 4/19/2015 21:19:02 | 43.64 | 43.04 | 113 | 1.93 | 0.22 | 6.2 |
| 4/19/2015 21:19:03 | 43.96 | 43.36 | 159 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 21:19:07 | 44.29 | 43.69 | 29 | 1.93 | 0.22 | 1.6 |
| 4/19/2015 21:19:14 | 44.62 | 44.02 | 21 | 1.93 | 0.22 | 1.1 |
| 4/19/2015 21:19:16 | 44.95 | 44.35 | 149 | 1.93 | 0.22 | 8.2 |
| 4/19/2015 21:19:18 | 45.28 | 44.68 | 262 | 1.93 | 0.22 | 14.3 |
| 4/19/2015 21:19:19 | 45.60 | 45.00 | 192 | 1.93 | 0.22 | 10.5 |
| 4/19/2015 21:19:25 | 45.93 | 45.33 | 15 | 1.93 | 0.22 | 0.8 |
| 4/19/2015 21:19:27 | 46.26 | 45.66 | 154 | 1.93 | 0.22 | 8.4 |
| 4/19/2015 21:19:28 | 46.59 | 45.99 | 253 | 1.93 | 0.22 | 13.8 |
| 4/19/2015 21:19:29 | 46.92 | 46.32 | 279 | 1.93 | 0.22 | 15.3 |
| 4/19/2015 21:19:32 | 47.24 | 46.64 | 157 | 1.93 | 0.22 | 8.6 |
| 4/19/2015 21:19:33 | 47.57 | 46.97 | 213 | 1.93 | 0.22 | 11.7 |
| 4/19/2015 21:19:34 | 47.90 | 47.30 | 367 | 1.93 | 0.22 | 20.1 |
| 4/19/2015 21:19:34 | 48.23 | 47.63 | 398 | 1.93 | 0.22 | 21.8 |
| 4/19/2015 21:19:36 | 48.56 | 47.96 | 361 | 1.93 | 0.22 | 19.7 |
| 4/19/2015 21:19:36 | 48.88 | 48.28 | 349 | 1.93 | 0.22 | 19.1 |
| 4/19/2015 21:19:37 | 49.21 | 48.61 | 378 | 1.93 | 0.22 | 20.7 |
| 4/19/2015 21:19:38 | 49.54 | 48.94 | 430 | 1.93 | 0.22 | 23.5 |
| 4/19/2015 21:19:39 | 49.87 | 49.27 | 454 | 1.93 | 0.22 | 24.8 |
| 4/19/2015 21:19:44 | 50.20 | 49.60 | 21 | 1.93 | 0.22 | 1.1 |
| 4/19/2015 21:19:45 | 50.53 | 49.93 | 166 | 1.93 | 0.22 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 21:19:47 | 50.85 | 50.25 | 173 | 1.93 | 0.22 | 9.5 |
| 4/19/2015 | 21:19:51 | 51.18 | 50.58 | 92 | 1.93 | 0.22 | 5.1 |
| 4/19/2015 | 21:19:54 | 51.51 | 50.91 | 126 | 1.93 | 0.22 | 6.9 |
| 4/19/2015 | 21:20:42 | 51.84 | 51.24 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 | 21:20:47 | 52.17 | 51.57 | 61 | 1.93 | 0.22 | 3.3 |
| 4/19/2015 | 21:20:54 | 52.49 | 51.89 | 52 | 1.93 | 0.22 | 2.8 |
| 4/19/2015 | 21:20:56 | 52.82 | 52.22 | 125 | 1.93 | 0.22 | 6.8 |
| 4/19/2015 | 21:20:59 | 53.15 | 52.55 | 140 | 1.93 | 0.22 | 7.6 |
| 4/19/2015 | 21:21:01 | 53.48 | 52.88 | 147 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 | 21:21:05 | 53.81 | 53.21 | 166 | 1.93 | 0.22 | 9.1 |
| 4/19/2015 | 21:21:06 | 54.13 | 53.53 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 | 21:21:10 | 54.46 | 53.86 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 | 21:21:15 | 54.79 | 54.19 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 | 21:21:20 | 55.12 | 54.52 | 67 | 1.93 | 0.22 | 3.7 |
| 4/19/2015 | 21:21:25 | 55.45 | 54.85 | 70 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 | 21:24:10 | 55.77 | 55.17 | 3 | 1.93 | 0.22 | 0.2 |

## E25 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 21:12:30

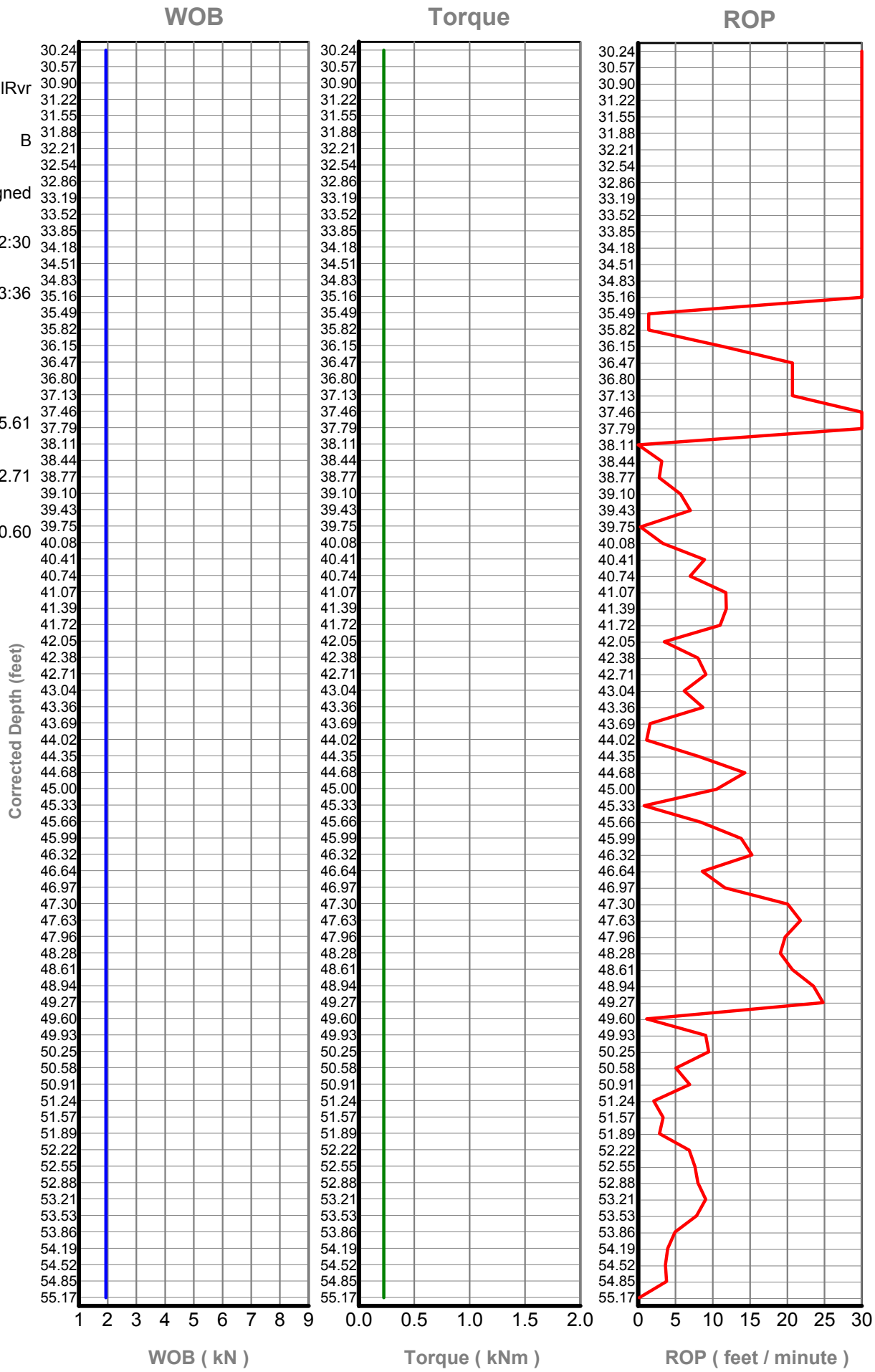
**End Date:**
4/19/2015 21:33:36

**Operator Note:**
'0.6 .5 b Auto Complete'

**Northing:**
369,305.61

**Easting:**
253,692.71

**Tide (feet):**
0.60



## Hole: E250 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:52:55 | 35.76 | 30.26 | 941 | 1.28 | 0.32 | 51.4 |
| 4/22/2015 1:52:55 | 36.09 | 30.59 | 941 | 1.28 | 0.32 | 51.4 |
| 4/22/2015 1:52:55 | 36.42 | 30.92 | 959 | 1.30 | 0.32 | 52.5 |
| 4/22/2015 1:52:56 | 36.75 | 31.25 | 952 | 1.32 | 0.32 | 52.0 |
| 4/22/2015 1:52:56 | 37.07 | 31.57 | 952 | 1.26 | 0.32 | 52.0 |
| 4/22/2015 1:52:57 | 37.40 | 31.90 | 952 | 1.26 | 0.32 | 52.0 |
| 4/22/2015 1:52:57 | 37.73 | 32.23 | 949 | 1.24 | 0.32 | 51.9 |
| 4/22/2015 1:52:57 | 38.06 | 32.56 | 967 | 1.30 | 0.32 | 52.9 |
| 4/22/2015 1:52:58 | 38.39 | 32.89 | 967 | 1.30 | 0.32 | 52.9 |
| 4/22/2015 1:52:58 | 38.71 | 33.21 | 997 | 1.24 | 0.32 | 54.5 |
| 4/22/2015 1:52:58 | 39.04 | 33.54 | 990 | 1.28 | 0.32 | 54.1 |
| 4/22/2015 1:52:59 | 39.37 | 33.87 | 990 | 1.28 | 0.32 | 54.1 |
| 4/22/2015 1:52:59 | 39.70 | 34.20 | 995 | 1.28 | 0.32 | 54.4 |
| 4/22/2015 1:53:00 | 40.03 | 34.53 | 1,001 | 1.26 | 0.32 | 54.7 |
| 4/22/2015 1:53:00 | 40.35 | 34.85 | 986 | 1.26 | 0.32 | 53.9 |
| 4/22/2015 1:53:00 | 40.68 | 35.18 | 986 | 1.26 | 0.32 | 53.9 |
| 4/22/2015 1:53:01 | 41.01 | 35.51 | 986 | 1.28 | 0.32 | 53.9 |
| 4/22/2015 1:53:01 | 41.34 | 35.84 | 974 | 1.22 | 0.32 | 53.3 |
| 4/22/2015 1:53:02 | 41.67 | 36.17 | 974 | 1.22 | 0.32 | 53.3 |
| 4/22/2015 1:53:02 | 41.99 | 36.49 | 974 | 1.28 | 0.32 | 53.3 |
| 4/22/2015 1:53:02 | 42.32 | 36.82 | 993 | 1.11 | 0.32 | 54.3 |
| 4/22/2015 1:53:03 | 42.65 | 37.15 | 993 | 1.11 | 0.32 | 54.3 |
| 4/22/2015 1:53:03 | 42.98 | 37.48 | 989 | 0.32 | 0.32 | 54.1 |
| 4/22/2015 1:53:03 | 43.31 | 37.81 | 996 | 0.32 | 0.32 | 54.4 |
| 4/22/2015 1:53:04 | 43.64 | 38.14 | 996 | 0.32 | 0.32 | 54.4 |
| 4/22/2015 1:53:04 | 43.96 | 38.46 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 1:53:04 | 44.29 | 38.79 | 1,001 | 0.32 | 0.32 | 54.8 |
| 4/22/2015 1:53:05 | 44.62 | 39.12 | 992 | 0.32 | 0.32 | 54.2 |
| 4/22/2015 1:53:05 | 44.95 | 39.45 | 992 | 0.32 | 0.32 | 54.2 |
| 4/22/2015 1:53:05 | 45.28 | 39.78 | 984 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 1:53:06 | 45.60 | 40.10 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 1:53:06 | 45.93 | 40.43 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 1:53:06 | 46.26 | 40.76 | 983 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 1:53:07 | 46.59 | 41.09 | 967 | 0.33 | 0.30 | 52.9 |
| 4/22/2015 1:53:07 | 46.92 | 41.42 | 967 | 0.33 | 0.30 | 52.9 |
| 4/22/2015 1:53:07 | 47.24 | 41.74 | 967 | 0.32 | 0.32 | 52.9 |
| 4/22/2015 1:53:08 | 47.57 | 42.07 | 974 | 0.32 | 0.32 | 53.2 |
| 4/22/2015 1:53:09 | 47.90 | 42.40 | 974 | 0.32 | 0.32 | 53.2 |
| 4/22/2015 1:53:08 | 48.23 | 42.73 | 964 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 1:53:09 | 48.56 | 43.06 | 964 | 0.32 | 0.32 | 52.7 |
| 4/22/2015 1:53:09 | 48.88 | 43.38 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 1:53:10 | 49.21 | 43.71 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 1:53:10 | 49.54 | 44.04 | 948 | 0.32 | 0.32 | 51.8 |
| 4/22/2015 1:53:10 | 49.87 | 44.37 | 979 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 1:53:11 | 50.20 | 44.70 | 979 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 1:53:11 | 50.53 | 45.03 | 979 | 0.37 | 0.32 | 53.5 |
| 4/22/2015 1:53:12 | 50.85 | 45.35 | 967 | 0.35 | 0.32 | 52.9 |
| 4/22/2015 1:53:12 | 51.18 | 45.68 | 985 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:53:13 | 51.51 | 46.01 | 985 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:53:13 | 51.84 | 46.34 | 978 | 0.33 | 0.32 | 53.5 |
| 4/22/2015 1:53:13 | 52.17 | 46.67 | 974 | 0.33 | 0.32 | 53.2 |
| 4/22/2015 1:53:14 | 52.49 | 46.99 | 974 | 0.33 | 0.32 | 53.2 |
| 4/22/2015 1:53:14 | 52.82 | 47.32 | 974 | 0.32 | 0.32 | 53.2 |
| 4/22/2015 1:53:14 | 53.15 | 47.65 | 972 | 0.30 | 0.36 | 53.2 |
| 4/22/2015 1:53:58 | 53.48 | 47.98 | 0 | 3.05 | 0.37 | 0.0 |
| 4/22/2015 1:54:05 | 53.81 | 48.31 | 69 | 4.87 | 0.37 | 3.8 |
| 4/22/2015 1:54:10 | 54.13 | 48.63 | 18 | 4.40 | 0.37 | 1.0 |
| 4/22/2015 1:54:11 | 54.46 | 48.96 | 140 | 5.21 | 0.39 | 7.7 |
| 4/22/2015 1:54:13 | 54.79 | 49.29 | 169 | 3.20 | 0.37 | 9.2 |
| 4/22/2015 1:54:17 | 55.12 | 49.62 | 82 | 3.98 | 0.37 | 4.5 |
| 4/22/2015 1:54:33 | 55.45 | 49.95 | 36 | 3.32 | 0.36 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:54:37 | 55.77 | 50.27 | 99 | 2.67 | 0.37 | 5.4 |
| 4/22/2015 | 1:54:46 | 56.10 | 50.60 | 82 | 4.59 | 0.40 | 4.5 |
| 4/22/2015 | 1:54:47 | 56.43 | 50.93 | 170 | 2.15 | 0.36 | 9.3 |
| 4/22/2015 | 1:54:48 | 56.76 | 51.26 | 270 | 2.09 | 0.36 | 14.7 |
| 4/22/2015 | 1:54:48 | 57.09 | 51.59 | 338 | 2.11 | 0.36 | 18.5 |
| 4/22/2015 | 1:54:49 | 57.41 | 51.91 | 422 | 2.30 | 0.36 | 23.1 |
| 4/22/2015 | 1:54:50 | 57.74 | 52.24 | 543 | 2.09 | 0.34 | 29.7 |
| 4/22/2015 | 1:54:50 | 58.07 | 52.57 | 586 | 2.17 | 0.35 | 32.1 |
| 4/22/2015 | 1:54:51 | 58.40 | 52.90 | 607 | 2.25 | 0.36 | 33.2 |
| 4/22/2015 | 1:54:51 | 58.73 | 53.23 | 600 | 2.32 | 0.36 | 32.8 |
| 4/22/2015 | 1:54:52 | 59.06 | 53.56 | 598 | 2.20 | 0.36 | 32.7 |
| 4/22/2015 | 1:54:53 | 59.38 | 53.88 | 557 | 2.27 | 0.36 | 30.5 |
| 4/22/2015 | 1:54:53 | 59.71 | 54.21 | 543 | 2.22 | 0.36 | 29.7 |
| 4/22/2015 | 1:54:54 | 60.04 | 54.54 | 535 | 2.18 | 0.36 | 29.2 |
| 4/22/2015 | 1:54:55 | 60.37 | 54.87 | 538 | 2.42 | 0.36 | 29.4 |
| 4/22/2015 | 1:54:56 | 60.70 | 55.20 | 546 | 2.31 | 0.36 | 29.9 |
| 4/22/2015 | 1:54:56 | 60.92 | 55.42 | 546 | 2.31 | 0.36 | 29.9 |

## E250 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:42:10

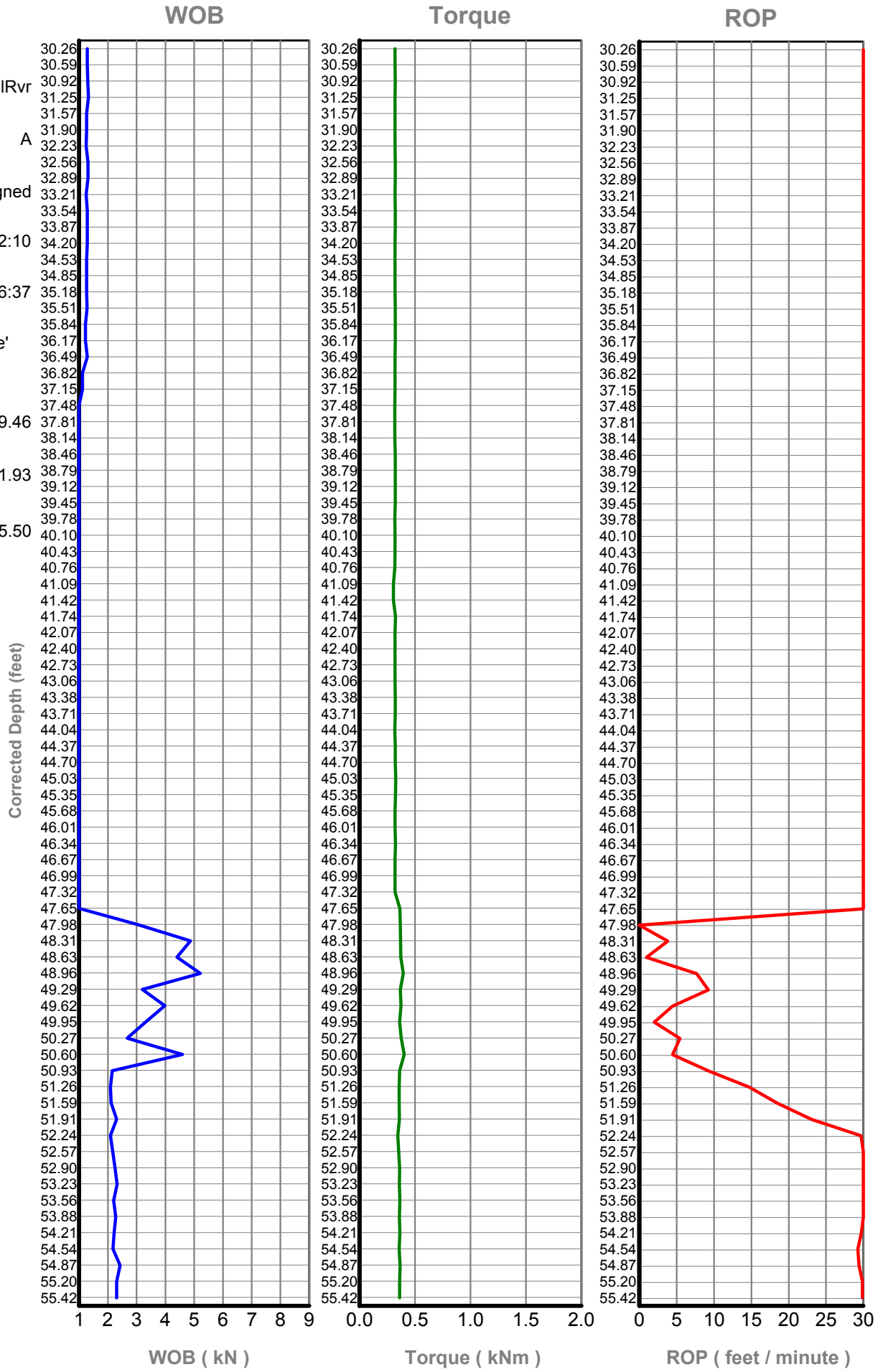
**End Date:**
4/22/2015 1:56:37

**Operator Note:**
'5.5 5.6 b Auto Complete'

**Northing:**
368,089.46

**Easting:**
252,661.93

**Tide (feet):**
5.50



## Hole: E251 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:33:04 | 35.43 | 30.03 | 992 | 0.32 | 0.32 | 54.2 |
| 4/22/2015 1:33:05 | 35.76 | 30.36 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:05 | 36.09 | 30.69 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:05 | 36.42 | 31.02 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:06 | 36.75 | 31.35 | 974 | 0.32 | 0.32 | 53.3 |
| 4/22/2015 1:33:06 | 37.07 | 31.67 | 974 | 0.32 | 0.32 | 53.3 |
| 4/22/2015 1:33:06 | 37.40 | 32.00 | 980 | 0.33 | 0.32 | 53.6 |
| 4/22/2015 1:33:07 | 37.73 | 32.33 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 1:33:07 | 38.06 | 32.66 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 1:33:07 | 38.39 | 32.99 | 983 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:33:08 | 38.71 | 33.31 | 983 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:33:08 | 39.04 | 33.64 | 992 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:09 | 39.37 | 33.97 | 992 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:09 | 39.70 | 34.30 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:09 | 40.03 | 34.63 | 992 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:10 | 40.35 | 34.95 | 992 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:10 | 40.68 | 35.28 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:10 | 41.01 | 35.61 | 991 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:11 | 41.34 | 35.94 | 991 | 0.33 | 0.33 | 54.2 |
| 4/22/2015 1:33:11 | 41.67 | 36.27 | 985 | 0.33 | 0.32 | 53.9 |
| 4/22/2015 1:33:11 | 41.99 | 36.59 | 992 | 0.33 | 0.32 | 54.2 |
| 4/22/2015 1:33:12 | 42.32 | 36.92 | 992 | 0.33 | 0.32 | 54.2 |
| 4/22/2015 1:33:12 | 42.65 | 37.25 | 992 | 0.33 | 0.32 | 54.2 |
| 4/22/2015 1:33:12 | 42.98 | 37.58 | 992 | 0.33 | 0.31 | 54.2 |
| 4/22/2015 1:33:13 | 43.31 | 37.91 | 992 | 0.33 | 0.32 | 54.2 |
| 4/22/2015 1:33:14 | 43.64 | 38.24 | 992 | 0.33 | 0.32 | 54.2 |
| 4/22/2015 1:33:13 | 43.96 | 38.56 | 984 | 0.33 | 0.33 | 53.8 |
| 4/22/2015 1:33:14 | 44.29 | 38.89 | 984 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:33:15 | 44.62 | 39.22 | 984 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 1:33:15 | 44.95 | 39.55 | 985 | 0.33 | 0.32 | 53.9 |
| 4/22/2015 1:33:15 | 45.28 | 39.88 | 988 | 0.33 | 0.32 | 54.0 |
| 4/22/2015 1:33:16 | 45.60 | 40.20 | 988 | 0.33 | 0.32 | 54.0 |
| 4/22/2015 1:33:16 | 45.93 | 40.53 | 985 | 0.31 | 0.32 | 53.9 |
| 4/22/2015 1:33:16 | 46.26 | 40.86 | 979 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 1:33:17 | 46.59 | 41.19 | 979 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 1:33:17 | 46.92 | 41.52 | 994 | 0.33 | 0.32 | 54.3 |
| 4/22/2015 1:33:17 | 47.24 | 41.84 | 983 | 0.33 | 0.33 | 53.7 |
| 4/22/2015 1:33:18 | 47.57 | 42.17 | 986 | 0.33 | 0.32 | 53.9 |
| 4/22/2015 1:33:18 | 47.90 | 42.50 | 986 | 0.33 | 0.32 | 53.9 |
| 4/22/2015 1:33:18 | 48.23 | 42.83 | 983 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 1:33:19 | 48.56 | 43.16 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:19 | 48.88 | 43.48 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 1:33:19 | 49.21 | 43.81 | 980 | 0.33 | 0.32 | 53.6 |
| 4/22/2015 1:33:20 | 49.54 | 44.14 | 983 | 0.33 | 0.32 | 53.7 |
| 4/22/2015 1:33:20 | 49.87 | 44.47 | 983 | 0.33 | 0.32 | 53.7 |
| 4/22/2015 1:33:20 | 50.20 | 44.80 | 977 | 0.33 | 0.32 | 53.4 |
| 4/22/2015 1:33:21 | 50.53 | 45.13 | 977 | 0.33 | 0.33 | 53.4 |
| 4/22/2015 1:33:21 | 50.85 | 45.45 | 969 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 1:33:22 | 51.18 | 45.78 | 969 | 0.33 | 0.32 | 53.0 |
| 4/22/2015 1:33:22 | 51.51 | 46.11 | 987 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 1:33:22 | 51.84 | 46.44 | 984 | 0.33 | 0.33 | 53.8 |
| 4/22/2015 1:33:23 | 52.17 | 46.77 | 984 | 0.33 | 0.33 | 53.8 |
| 4/22/2015 1:33:23 | 52.49 | 47.09 | 984 | 0.32 | 0.33 | 53.8 |
| 4/22/2015 1:33:23 | 52.82 | 47.42 | 984 | 0.32 | 0.34 | 53.8 |
| 4/22/2015 1:33:24 | 53.15 | 47.75 | 958 | 0.29 | 0.40 | 52.4 |
| 4/22/2015 1:33:47 | 53.48 | 48.08 | 83 | 4.22 | 0.39 | 4.5 |
| 4/22/2015 1:33:50 | 53.81 | 48.41 | 83 | 2.63 | 0.38 | 4.6 |
| 4/22/2015 1:33:51 | 54.13 | 48.73 | 158 | 3.06 | 0.37 | 8.7 |
| 4/22/2015 1:33:52 | 54.46 | 49.06 | 309 | 3.25 | 0.36 | 16.9 |
| 4/22/2015 1:33:52 | 54.79 | 49.39 | 387 | 3.32 | 0.37 | 21.1 |
| 4/22/2015 1:33:53 | 55.12 | 49.72 | 442 | 3.58 | 0.37 | 24.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:33:54 | 55.45 | 50.05 | 442 | 2.41 | 0.36 | 24.2 |
| 4/22/2015 | 1:33:54 | 55.77 | 50.37 | 457 | 2.74 | 0.37 | 25.0 |
| 4/22/2015 | 1:33:55 | 56.10 | 50.70 | 488 | 2.56 | 0.37 | 26.7 |
| 4/22/2015 | 1:33:56 | 56.43 | 51.03 | 491 | 2.71 | 0.37 | 26.9 |
| 4/22/2015 | 1:33:57 | 56.76 | 51.36 | 477 | 2.38 | 0.35 | 26.1 |
| 4/22/2015 | 1:33:58 | 57.09 | 51.69 | 492 | 2.61 | 0.36 | 26.9 |
| 4/22/2015 | 1:33:58 | 57.41 | 52.01 | 506 | 2.68 | 0.36 | 27.7 |
| 4/22/2015 | 1:33:59 | 57.74 | 52.34 | 529 | 2.23 | 0.35 | 29.0 |
| 4/22/2015 | 1:34:00 | 58.07 | 52.67 | 543 | 2.14 | 0.36 | 29.7 |
| 4/22/2015 | 1:34:00 | 58.40 | 53.00 | 572 | 2.15 | 0.36 | 31.3 |
| 4/22/2015 | 1:34:01 | 58.73 | 53.33 | 572 | 2.15 | 0.36 | 31.3 |
| 4/22/2015 | 1:34:01 | 59.06 | 53.66 | 583 | 2.17 | 0.35 | 31.9 |
| 4/22/2015 | 1:34:02 | 59.38 | 53.98 | 598 | 2.23 | 0.36 | 32.7 |
| 4/22/2015 | 1:34:03 | 59.71 | 54.31 | 560 | 2.51 | 0.38 | 30.6 |
| 4/22/2015 | 1:34:04 | 60.04 | 54.64 | 445 | 2.37 | 0.36 | 24.3 |
| 4/22/2015 | 1:34:04 | 60.37 | 54.97 | 413 | 2.28 | 0.37 | 22.6 |
| 4/22/2015 | 1:34:05 | 60.64 | 55.24 | 401 | 2.54 | 0.37 | 21.9 |

## E251 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:32:02

**End Date:**
4/22/2015 1:37:00

**Operator Note:**
'5.4 5.1 b Auto Complete'

**Northing:**
368,147.64

**Easting:**
252,610.36

**Tide (feet):**
5.40



## Hole: E252 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:05:50 | 34.45 | 30.05 | 1,004 | 0.31 | 0.32 | 54.9 |
| 4/22/2015 1:05:51 | 34.78 | 30.38 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 1:05:51 | 35.11 | 30.71 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 1:05:51 | 35.43 | 31.03 | 1,000 | 0.31 | 0.33 | 54.7 |
| 4/22/2015 1:05:52 | 35.76 | 31.36 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/22/2015 1:05:52 | 36.09 | 31.69 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/22/2015 1:05:52 | 36.42 | 32.02 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 1:05:53 | 36.75 | 32.35 | 995 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 1:05:53 | 37.07 | 32.67 | 989 | 0.31 | 0.33 | 54.1 |
| 4/22/2015 1:05:54 | 37.40 | 33.00 | 989 | 0.31 | 0.33 | 54.1 |
| 4/22/2015 1:05:54 | 37.73 | 33.33 | 989 | 0.31 | 0.32 | 54.1 |
| 4/22/2015 1:05:54 | 38.06 | 33.66 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 1:05:55 | 38.39 | 33.99 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 1:05:55 | 38.71 | 34.31 | 994 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 1:05:55 | 39.04 | 34.64 | 994 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 1:05:56 | 39.37 | 34.97 | 994 | 0.31 | 0.32 | 54.4 |
| 4/22/2015 1:05:56 | 39.70 | 35.30 | 988 | 0.31 | 0.32 | 54.0 |
| 4/22/2015 1:05:56 | 40.03 | 35.63 | 988 | 0.31 | 0.32 | 54.0 |
| 4/22/2015 1:05:57 | 40.35 | 35.95 | 988 | 0.31 | 0.32 | 54.0 |
| 4/22/2015 1:05:57 | 40.68 | 36.28 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 1:05:57 | 41.01 | 36.61 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/22/2015 1:05:58 | 41.34 | 36.94 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/22/2015 1:05:58 | 41.67 | 37.27 | 993 | 0.31 | 0.32 | 54.3 |
| 4/22/2015 1:05:58 | 41.99 | 37.59 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 1:05:59 | 42.32 | 37.92 | 1,007 | 0.30 | 0.32 | 55.0 |
| 4/22/2015 1:06:00 | 42.65 | 38.25 | 1,007 | 0.30 | 0.32 | 55.0 |
| 4/22/2015 1:05:59 | 42.98 | 38.58 | 991 | 0.31 | 0.32 | 54.2 |
| 4/22/2015 1:06:00 | 43.31 | 38.91 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 1:06:01 | 43.64 | 39.24 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 1:06:01 | 43.96 | 39.56 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 1:06:01 | 44.29 | 39.89 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 1:06:02 | 44.62 | 40.22 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 1:06:02 | 44.95 | 40.55 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 1:06:02 | 45.28 | 40.88 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 1:06:03 | 45.60 | 41.20 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 1:06:03 | 45.93 | 41.53 | 1,002 | 0.32 | 0.32 | 54.8 |
| 4/22/2015 1:06:03 | 46.26 | 41.86 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 1:06:04 | 46.59 | 42.19 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 1:06:04 | 46.92 | 42.52 | 996 | 0.31 | 0.32 | 54.5 |
| 4/22/2015 1:06:04 | 47.24 | 42.84 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 1:06:05 | 47.57 | 43.17 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/22/2015 1:06:05 | 47.90 | 43.50 | 1,005 | 0.32 | 0.32 | 55.0 |
| 4/22/2015 1:06:05 | 48.23 | 43.83 | 1,016 | 0.26 | 0.32 | 55.6 |
| 4/22/2015 1:06:06 | 48.56 | 44.16 | 1,016 | 0.26 | 0.32 | 55.6 |
| 4/22/2015 1:06:06 | 48.88 | 44.48 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/22/2015 1:06:06 | 49.21 | 44.81 | 993 | 0.31 | 0.33 | 54.3 |
| 4/22/2015 1:06:07 | 49.54 | 45.14 | 993 | 0.33 | 0.33 | 54.3 |
| 4/22/2015 1:06:07 | 49.87 | 45.47 | 993 | 0.33 | 0.33 | 54.3 |
| 4/22/2015 1:06:07 | 50.20 | 45.80 | 996 | 0.30 | 0.36 | 54.5 |
| 4/22/2015 1:07:01 | 50.53 | 46.13 | 78 | 3.04 | 0.40 | 4.3 |
| 4/22/2015 1:07:06 | 50.85 | 46.45 | 49 | 3.13 | 0.43 | 2.7 |
| 4/22/2015 1:07:12 | 51.18 | 46.78 | 52 | 2.60 | 0.37 | 2.8 |
| 4/22/2015 1:07:15 | 51.51 | 47.11 | 82 | 3.50 | 0.37 | 4.5 |
| 4/22/2015 1:07:19 | 51.84 | 47.44 | 44 | 3.51 | 0.37 | 2.4 |
| 4/22/2015 1:07:20 | 52.17 | 47.77 | 113 | 4.57 | 0.40 | 6.2 |
| 4/22/2015 1:07:30 | 52.49 | 48.09 | 70 | 4.84 | 0.41 | 3.8 |
| 4/22/2015 1:07:31 | 52.82 | 48.42 | 131 | 7.18 | 0.39 | 7.2 |
| 4/22/2015 1:07:50 | 53.15 | 48.75 | 48 | 3.75 | 0.37 | 2.6 |
| 4/22/2015 1:07:51 | 53.48 | 49.08 | 95 | 2.82 | 0.36 | 5.2 |
| 4/22/2015 1:07:55 | 53.81 | 49.41 | 105 | 3.56 | 0.37 | 5.8 |
| 4/22/2015 1:07:56 | 54.13 | 49.73 | 80 | 3.26 | 0.36 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:07:57 | 54.46 | 50.06 | 159 | 3.42 | 0.37 | 8.7 |
| 4/22/2015 | 1:07:57 | 54.79 | 50.39 | 247 | 2.83 | 0.37 | 13.5 |
| 4/22/2015 | 1:07:58 | 55.12 | 50.72 | 397 | 4.36 | 0.38 | 21.7 |
| 4/22/2015 | 1:08:00 | 55.45 | 51.05 | 360 | 4.05 | 0.38 | 19.7 |
| 4/22/2015 | 1:08:01 | 55.77 | 51.37 | 323 | 4.02 | 0.38 | 17.7 |
| 4/22/2015 | 1:08:02 | 56.10 | 51.70 | 316 | 3.80 | 0.38 | 17.3 |
| 4/22/2015 | 1:08:07 | 56.43 | 52.03 | 0 | 4.05 | 0.37 | 0.0 |
| 4/22/2015 | 1:08:09 | 56.76 | 52.36 | 36 | 3.88 | 0.38 | 2.0 |
| 4/22/2015 | 1:08:10 | 57.09 | 52.69 | 149 | 3.57 | 0.37 | 8.1 |
| 4/22/2015 | 1:08:11 | 57.41 | 53.01 | 296 | 2.86 | 0.37 | 16.2 |
| 4/22/2015 | 1:08:12 | 57.74 | 53.34 | 337 | 3.18 | 0.37 | 18.4 |
| 4/22/2015 | 1:08:17 | 58.07 | 53.67 | 0 | 2.71 | 0.37 | 0.0 |
| 4/22/2015 | 1:08:18 | 58.40 | 54.00 | 43 | 3.83 | 0.38 | 2.4 |
| 4/22/2015 | 1:08:20 | 58.73 | 54.33 | 236 | 3.45 | 0.39 | 12.9 |
| 4/22/2015 | 1:08:21 | 59.06 | 54.66 | 260 | 3.85 | 0.39 | 14.2 |
| 4/22/2015 | 1:08:22 | 59.38 | 54.98 | 243 | 3.77 | 0.38 | 13.3 |
| 4/22/2015 | 1:08:23 | 59.51 | 55.11 | 254 | 3.89 | 0.38 | 13.9 |

## E252 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:01:02

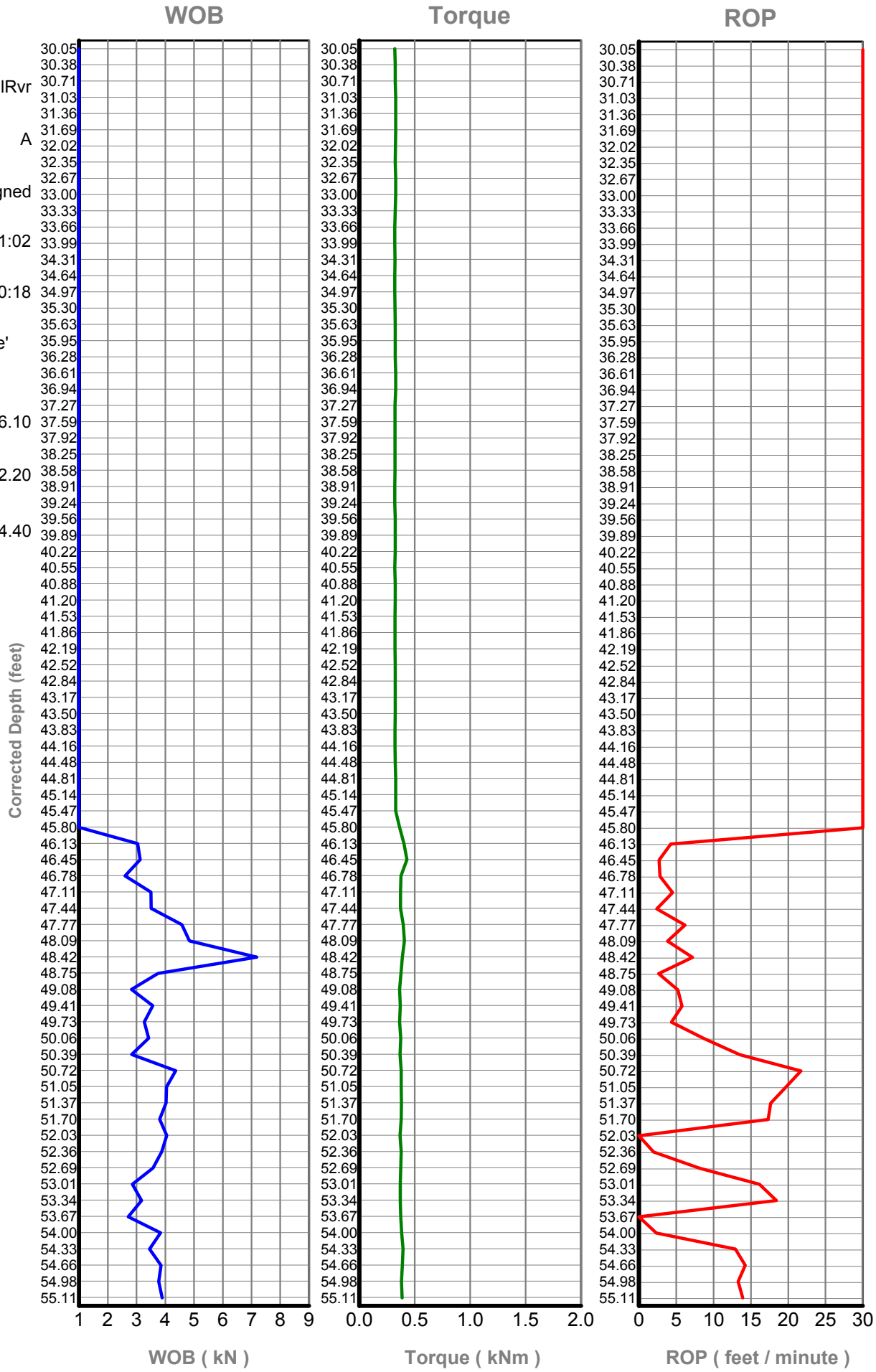
**End Date:**
4/22/2015 1:10:18

**Operator Note:**
'4.4 4.4 b Auto Complete'

**Northing:**
368,206.10

**Easting:**
252,552.20

**Tide (feet):**
4.40



## Hole: E253 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:12:01 | 32.48 | 30.28 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:12:01 | 32.81 | 30.61 | 1,095 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 9:12:01 | 33.14 | 30.94 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:12:02 | 33.46 | 31.26 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:12:02 | 33.79 | 31.59 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 9:12:03 | 34.12 | 31.92 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 9:12:03 | 34.45 | 32.25 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:12:03 | 34.78 | 32.58 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:12:04 | 35.11 | 32.91 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:12:04 | 35.43 | 33.23 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:12:04 | 35.76 | 33.56 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:12:05 | 36.09 | 33.89 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:12:05 | 36.42 | 34.22 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 9:12:05 | 36.75 | 34.55 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:12:06 | 37.07 | 34.87 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:12:06 | 37.40 | 35.20 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:06 | 37.73 | 35.53 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:06 | 38.06 | 35.86 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:07 | 38.39 | 36.19 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:07 | 38.71 | 36.51 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:07 | 39.04 | 36.84 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:08 | 39.37 | 37.17 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:12:08 | 39.70 | 37.50 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:12:08 | 40.03 | 37.83 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:09 | 40.35 | 38.15 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:12:09 | 40.68 | 38.48 | 1,087 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 9:12:09 | 41.01 | 38.81 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:12:10 | 41.34 | 39.14 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 9:12:10 | 41.67 | 39.47 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 9:12:10 | 41.99 | 39.79 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:12:11 | 42.32 | 40.12 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 9:12:11 | 42.65 | 40.45 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:11 | 42.98 | 40.78 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:12 | 43.31 | 41.11 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:12 | 43.64 | 41.44 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:12:12 | 43.96 | 41.76 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:12:13 | 44.29 | 42.09 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 9:12:13 | 44.62 | 42.42 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:14 | 44.95 | 42.75 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:14 | 45.28 | 43.08 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:14 | 45.60 | 43.40 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:15 | 45.93 | 43.73 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:15 | 46.26 | 44.06 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:15 | 46.59 | 44.39 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:16 | 46.92 | 44.72 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:16 | 47.24 | 45.04 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:16 | 47.57 | 45.37 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:17 | 47.90 | 45.70 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:17 | 48.23 | 46.03 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:12:17 | 48.56 | 46.36 | 1,069 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:18 | 48.88 | 46.68 | 1,069 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:18 | 49.21 | 47.01 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:18 | 49.54 | 47.34 | 1,069 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:19 | 49.87 | 47.67 | 1,069 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 9:12:19 | 50.20 | 48.00 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:19 | 50.53 | 48.33 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 9:12:19 | 50.85 | 48.65 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 9:12:20 | 51.18 | 48.98 | 1,067 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 9:12:20 | 51.51 | 49.31 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:12:21 | 51.84 | 49.64 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:12:21 | 52.17 | 49.97 | 1,015 | 0.43 | 0.46 | 55.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:12:21 | 52.49 | 50.29 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 | 9:12:22 | 52.82 | 50.62 | 977 | 0.43 | 0.46 | 53.4 |
| 4/20/2015 | 9:12:22 | 53.15 | 50.95 | 951 | 0.43 | 0.46 | 52.0 |
| 4/20/2015 | 9:12:22 | 53.48 | 51.28 | 930 | 0.43 | 0.46 | 50.9 |
| 4/20/2015 | 9:12:23 | 53.81 | 51.61 | 919 | 0.43 | 0.46 | 50.2 |
| 4/20/2015 | 9:12:23 | 54.13 | 51.93 | 899 | 0.43 | 0.46 | 49.1 |
| 4/20/2015 | 9:12:33 | 54.46 | 52.26 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 | 9:12:37 | 54.79 | 52.59 | 124 | 0.43 | 0.46 | 6.8 |
| 4/20/2015 | 9:12:38 | 55.12 | 52.92 | 114 | 0.43 | 0.46 | 6.3 |
| 4/20/2015 | 9:12:39 | 55.45 | 53.25 | 263 | 0.43 | 0.46 | 14.4 |
| 4/20/2015 | 9:12:39 | 55.77 | 53.57 | 343 | 0.43 | 0.46 | 18.7 |
| 4/20/2015 | 9:12:41 | 56.10 | 53.90 | 262 | 0.43 | 0.46 | 14.3 |
| 4/20/2015 | 9:12:43 | 56.43 | 54.23 | 213 | 0.43 | 0.46 | 11.6 |
| 4/20/2015 | 9:12:44 | 56.76 | 54.56 | 272 | 0.43 | 0.46 | 14.9 |
| 4/20/2015 | 9:12:45 | 57.09 | 54.89 | 326 | 0.43 | 0.46 | 17.9 |
| 4/20/2015 | 9:12:47 | 57.38 | 55.18 | 160 | 0.43 | 0.46 | 8.8 |

## E253 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:10:44

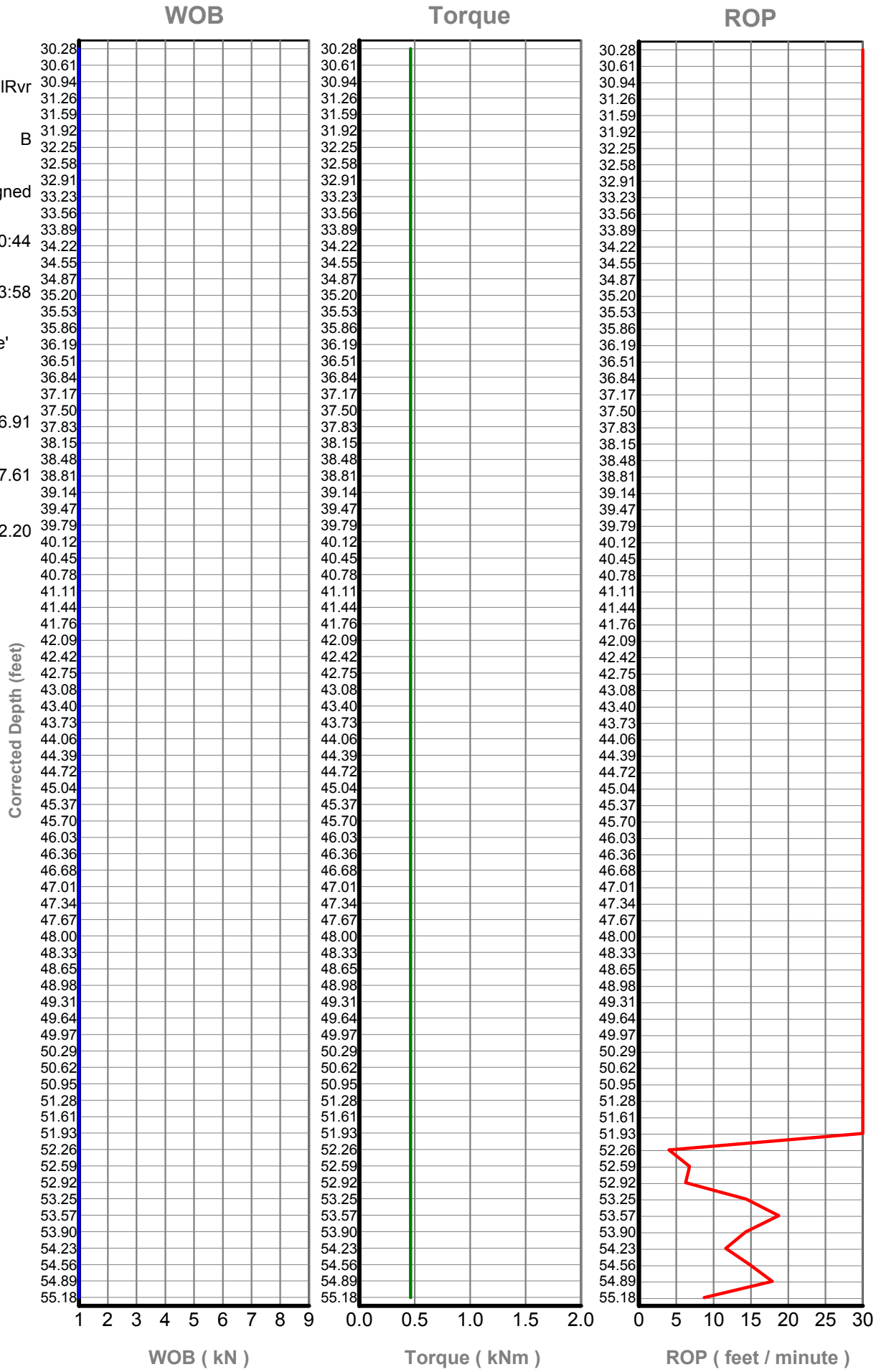
**End Date:**
4/20/2015 9:13:58

**Operator Note:**
'2.2 2.4 b Auto Complete'

**Northing:**
368,656.91

**Easting:**
253,717.61

**Tide (feet):**
2.20



## Hole: E254 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 9:16:37 | 32.48 | 30.28 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:16:37 | 32.81 | 30.61 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 9:16:38 | 33.14 | 30.94 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 9:16:38 | 33.46 | 31.26 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 9:16:38 | 33.79 | 31.59 | 1,023 | 0.43 | 0.46 | 56.0 |
| 4/20/2015 9:16:39 | 34.12 | 31.92 | 1,023 | 0.43 | 0.46 | 56.0 |
| 4/20/2015 9:16:39 | 34.45 | 32.25 | 1,027 | 0.43 | 0.46 | 56.1 |
| 4/20/2015 9:16:39 | 34.78 | 32.58 | 1,017 | 0.43 | 0.46 | 55.6 |
| 4/20/2015 9:16:40 | 35.11 | 32.91 | 1,017 | 0.43 | 0.46 | 55.6 |
| 4/20/2015 9:16:40 | 35.43 | 33.23 | 1,021 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 9:16:40 | 35.76 | 33.56 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:41 | 36.09 | 33.89 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:41 | 36.42 | 34.22 | 1,018 | 0.43 | 0.46 | 55.7 |
| 4/20/2015 9:16:41 | 36.75 | 34.55 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 9:16:42 | 37.07 | 34.87 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 9:16:42 | 37.40 | 35.20 | 1,018 | 0.43 | 0.46 | 55.7 |
| 4/20/2015 9:16:42 | 37.73 | 35.53 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 9:16:43 | 38.06 | 35.86 | 1,012 | 0.43 | 0.46 | 55.3 |
| 4/20/2015 9:16:43 | 38.39 | 36.19 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:43 | 38.71 | 36.51 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:44 | 39.04 | 36.84 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:44 | 39.37 | 37.17 | 1,023 | 0.43 | 0.46 | 56.0 |
| 4/20/2015 9:16:44 | 39.70 | 37.50 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:45 | 40.03 | 37.83 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 9:16:45 | 40.35 | 38.15 | 1,020 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 9:16:52 | 40.68 | 38.48 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 9:16:53 | 41.01 | 38.81 | 115 | 0.43 | 0.46 | 6.3 |
| 4/20/2015 9:16:53 | 41.34 | 39.14 | 115 | 0.43 | 0.46 | 6.3 |
| 4/20/2015 9:16:53 | 41.67 | 39.47 | 330 | 0.43 | 0.46 | 18.0 |
| 4/20/2015 9:16:54 | 41.99 | 39.79 | 535 | 0.43 | 0.46 | 29.3 |
| 4/20/2015 9:16:54 | 42.32 | 40.12 | 535 | 0.43 | 0.46 | 29.3 |
| 4/20/2015 9:16:54 | 42.65 | 40.45 | 732 | 0.43 | 0.46 | 40.0 |
| 4/20/2015 9:16:55 | 42.98 | 40.78 | 954 | 0.43 | 0.46 | 52.2 |
| 4/20/2015 9:16:55 | 43.31 | 41.11 | 954 | 0.43 | 0.46 | 52.2 |
| 4/20/2015 9:16:55 | 43.64 | 41.44 | 1,051 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:16:56 | 43.96 | 41.76 | 1,042 | 0.43 | 0.46 | 57.0 |
| 4/20/2015 9:16:56 | 44.29 | 42.09 | 1,042 | 0.43 | 0.46 | 57.0 |
| 4/20/2015 9:16:56 | 44.62 | 42.42 | 1,048 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 9:16:57 | 44.95 | 42.75 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:16:57 | 45.28 | 43.08 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:16:57 | 45.60 | 43.40 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 9:16:58 | 45.93 | 43.73 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:16:58 | 46.26 | 44.06 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 9:16:59 | 46.59 | 44.39 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:16:59 | 46.92 | 44.72 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:16:59 | 47.24 | 45.04 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:17:00 | 47.57 | 45.37 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:17:00 | 47.90 | 45.70 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 9:17:00 | 48.23 | 46.03 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 9:17:01 | 48.56 | 46.36 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:17:01 | 48.88 | 46.68 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 9:17:01 | 49.21 | 47.01 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 9:17:02 | 49.54 | 47.34 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:17:02 | 49.87 | 47.67 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:17:02 | 50.20 | 48.00 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 9:17:03 | 50.53 | 48.33 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 9:17:14 | 50.85 | 48.65 | 53 | 0.43 | 0.46 | 2.9 |
| 4/20/2015 9:17:16 | 51.18 | 48.98 | 102 | 0.43 | 0.46 | 5.6 |
| 4/20/2015 9:17:18 | 51.51 | 49.31 | 210 | 0.43 | 0.46 | 11.5 |
| 4/20/2015 9:17:18 | 51.84 | 49.64 | 348 | 0.43 | 0.46 | 19.0 |
| 4/20/2015 9:17:19 | 52.17 | 49.97 | 348 | 0.43 | 0.46 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 9:17:19 | 52.49 | 50.29 | 467 | 0.43 | 0.46 | 25.5 |
| 4/20/2015 | 9:17:19 | 52.82 | 50.62 | 586 | 0.43 | 0.46 | 32.0 |
| 4/20/2015 | 9:17:20 | 53.15 | 50.95 | 666 | 0.43 | 0.46 | 36.4 |
| 4/20/2015 | 9:17:20 | 53.48 | 51.28 | 780 | 0.43 | 0.46 | 42.6 |
| 4/20/2015 | 9:17:21 | 53.81 | 51.61 | 778 | 0.43 | 0.46 | 42.5 |
| 4/20/2015 | 9:17:22 | 54.13 | 51.93 | 772 | 0.43 | 0.46 | 42.2 |
| 4/20/2015 | 9:17:22 | 54.46 | 52.26 | 766 | 0.43 | 0.46 | 41.9 |
| 4/20/2015 | 9:17:23 | 54.79 | 52.59 | 762 | 0.43 | 0.46 | 41.7 |
| 4/20/2015 | 9:17:23 | 55.12 | 52.92 | 741 | 0.43 | 0.46 | 40.5 |
| 4/20/2015 | 9:17:24 | 55.45 | 53.25 | 643 | 0.43 | 0.46 | 35.1 |
| 4/20/2015 | 9:17:25 | 55.77 | 53.57 | 557 | 0.43 | 0.46 | 30.5 |
| 4/20/2015 | 9:17:25 | 56.10 | 53.90 | 531 | 0.43 | 0.46 | 29.0 |
| 4/20/2015 | 9:17:28 | 56.43 | 54.23 | 119 | 0.43 | 0.46 | 6.5 |
| 4/20/2015 | 9:17:34 | 56.76 | 54.56 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 9:17:37 | 57.09 | 54.89 | 119 | 0.43 | 0.46 | 6.5 |
| 4/20/2015 | 9:17:39 | 57.25 | 55.05 | 104 | 0.43 | 0.46 | 5.7 |

## E254 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 9:15:04

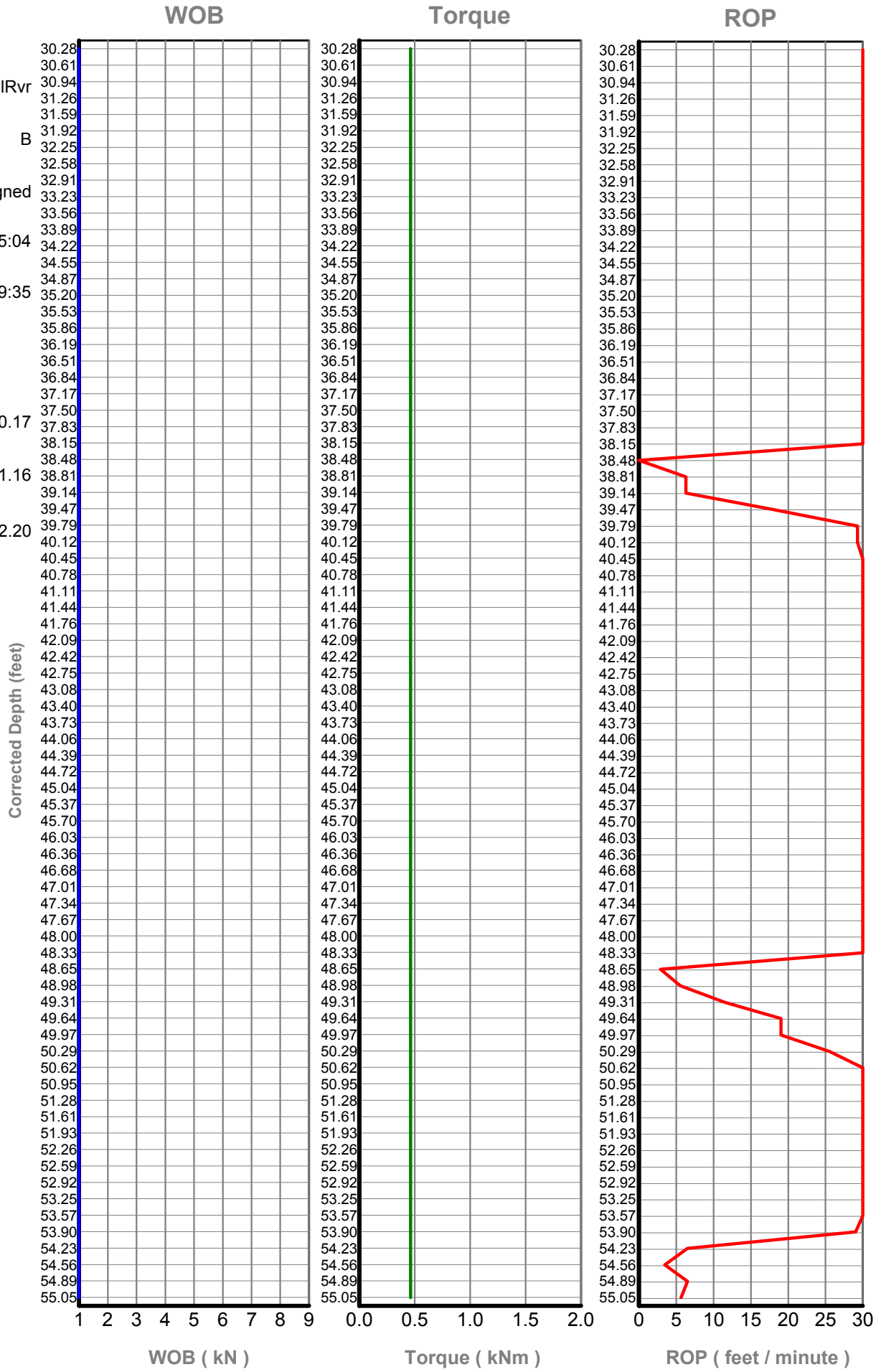
**End Date:**
4/20/2015 9:19:35

**Operator Note:**
'2.2 2.2 B Auto Complete'

**Northing:**
368,710.17

**Easting:**
253,781.16

**Tide (feet):**
2.20



## Hole: E255 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:53:08 | 32.48 | 30.18 | 957 | 0.38 | 0.31 | 52.4 |
| 4/20/2015 8:53:07 | 32.81 | 30.51 | 951 | 0.38 | 0.32 | 52.0 |
| 4/20/2015 8:53:08 | 33.14 | 30.84 | 951 | 0.38 | 0.33 | 52.0 |
| 4/20/2015 8:53:09 | 33.46 | 31.16 | 952 | 0.38 | 0.33 | 52.0 |
| 4/20/2015 8:53:09 | 33.79 | 31.49 | 952 | 0.38 | 0.33 | 52.0 |
| 4/20/2015 8:53:09 | 34.12 | 31.82 | 947 | 0.35 | 0.32 | 51.8 |
| 4/20/2015 8:53:10 | 34.45 | 32.15 | 938 | 0.31 | 0.32 | 51.3 |
| 4/20/2015 8:53:10 | 34.78 | 32.48 | 938 | 0.31 | 0.32 | 51.3 |
| 4/20/2015 8:53:10 | 35.11 | 32.81 | 954 | 0.31 | 0.33 | 52.2 |
| 4/20/2015 8:53:11 | 35.43 | 33.13 | 969 | 0.31 | 0.32 | 53.0 |
| 4/20/2015 8:53:11 | 35.76 | 33.46 | 969 | 0.31 | 0.32 | 53.0 |
| 4/20/2015 8:53:11 | 36.09 | 33.79 | 969 | 0.35 | 0.32 | 53.0 |
| 4/20/2015 8:53:12 | 36.42 | 34.12 | 972 | 0.35 | 0.32 | 53.1 |
| 4/20/2015 8:53:12 | 36.75 | 34.45 | 967 | 0.31 | 0.32 | 52.9 |
| 4/20/2015 8:53:13 | 37.07 | 34.77 | 967 | 0.31 | 0.32 | 52.9 |
| 4/20/2015 8:53:13 | 37.40 | 35.10 | 990 | 0.31 | 0.32 | 54.1 |
| 4/20/2015 8:53:13 | 37.73 | 35.43 | 1,008 | 0.31 | 0.32 | 55.1 |
| 4/20/2015 8:53:14 | 38.06 | 35.76 | 1,008 | 0.31 | 0.32 | 55.1 |
| 4/20/2015 8:53:14 | 38.39 | 36.09 | 981 | 0.31 | 0.32 | 53.6 |
| 4/20/2015 8:53:14 | 38.71 | 36.41 | 981 | 0.35 | 0.32 | 53.6 |
| 4/20/2015 8:53:15 | 39.04 | 36.74 | 981 | 0.35 | 0.32 | 53.6 |
| 4/20/2015 8:53:15 | 39.37 | 37.07 | 989 | 0.33 | 0.32 | 54.1 |
| 4/20/2015 8:53:15 | 39.70 | 37.40 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:53:16 | 40.03 | 37.73 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:53:16 | 40.35 | 38.05 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/20/2015 8:53:16 | 40.68 | 38.38 | 997 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:53:17 | 41.01 | 38.71 | 997 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:53:17 | 41.34 | 39.04 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/20/2015 8:53:17 | 41.67 | 39.37 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/20/2015 8:53:18 | 41.99 | 39.69 | 997 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:53:18 | 42.32 | 40.02 | 997 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:53:18 | 42.65 | 40.35 | 997 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:53:19 | 42.98 | 40.68 | 991 | 0.31 | 0.32 | 54.2 |
| 4/20/2015 8:53:20 | 43.31 | 41.01 | 991 | 0.31 | 0.32 | 54.2 |
| 4/20/2015 8:53:20 | 43.64 | 41.34 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/20/2015 8:53:20 | 43.96 | 41.66 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:21 | 44.29 | 41.99 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:21 | 44.62 | 42.32 | 1,003 | 0.31 | 0.33 | 54.9 |
| 4/20/2015 8:53:21 | 44.95 | 42.65 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:22 | 45.28 | 42.98 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:22 | 45.60 | 43.30 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:53:22 | 45.93 | 43.63 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/20/2015 8:53:23 | 46.26 | 43.96 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/20/2015 8:53:23 | 46.59 | 44.29 | 997 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:53:23 | 46.92 | 44.62 | 1,004 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:24 | 47.24 | 44.94 | 1,004 | 0.31 | 0.32 | 54.9 |
| 4/20/2015 8:53:24 | 47.57 | 45.27 | 1,007 | 0.31 | 0.32 | 55.0 |
| 4/20/2015 8:53:24 | 47.90 | 45.60 | 987 | 0.31 | 0.32 | 54.0 |
| 4/20/2015 8:53:25 | 48.23 | 45.93 | 987 | 0.31 | 0.32 | 54.0 |
| 4/20/2015 8:53:25 | 48.56 | 46.26 | 987 | 0.31 | 0.32 | 54.0 |
| 4/20/2015 8:53:25 | 48.88 | 46.58 | 997 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:53:26 | 49.21 | 46.91 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:53:26 | 49.54 | 47.24 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:53:26 | 49.87 | 47.57 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/20/2015 8:53:27 | 50.20 | 47.90 | 1,005 | 0.31 | 0.33 | 55.0 |
| 4/20/2015 8:53:27 | 50.53 | 48.23 | 1,005 | 0.31 | 0.33 | 55.0 |
| 4/20/2015 8:53:27 | 50.85 | 48.55 | 1,017 | 0.31 | 0.33 | 55.6 |
| 4/20/2015 8:53:28 | 51.18 | 48.88 | 997 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:53:28 | 51.51 | 49.21 | 974 | 0.31 | 0.33 | 53.3 |
| 4/20/2015 8:53:29 | 51.84 | 49.54 | 974 | 0.31 | 0.33 | 53.3 |
| 4/20/2015 8:53:29 | 52.17 | 49.87 | 957 | 0.31 | 0.33 | 52.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:53:30 | 52.49 | 50.19 | 934 | 0.31 | 0.34 | 51.1 |
| 4/20/2015 | 8:53:30 | 52.82 | 50.52 | 916 | 0.31 | 0.33 | 50.1 |
| 4/20/2015 | 8:53:31 | 53.15 | 50.85 | 916 | 0.31 | 0.33 | 50.1 |
| 4/20/2015 | 8:53:31 | 53.48 | 51.18 | 896 | 0.31 | 0.34 | 49.0 |
| 4/20/2015 | 8:53:31 | 53.81 | 51.51 | 875 | 0.33 | 0.34 | 47.8 |
| 4/20/2015 | 8:53:32 | 54.13 | 51.83 | 871 | 0.31 | 0.33 | 47.6 |
| 4/20/2015 | 8:53:32 | 54.46 | 52.16 | 862 | 0.31 | 0.34 | 47.1 |
| 4/20/2015 | 8:53:33 | 54.79 | 52.49 | 862 | 0.31 | 0.34 | 47.1 |
| 4/20/2015 | 8:53:33 | 55.12 | 52.82 | 853 | 0.31 | 0.34 | 46.7 |
| 4/20/2015 | 8:53:33 | 55.45 | 53.15 | 845 | 0.31 | 0.34 | 46.2 |
| 4/20/2015 | 8:53:34 | 55.77 | 53.47 | 841 | 0.31 | 0.34 | 46.0 |
| 4/20/2015 | 8:53:34 | 56.10 | 53.80 | 827 | 0.34 | 0.34 | 45.2 |
| 4/20/2015 | 8:53:35 | 56.43 | 54.13 | 815 | 0.31 | 0.34 | 44.6 |
| 4/20/2015 | 8:53:35 | 56.76 | 54.46 | 815 | 0.31 | 0.34 | 44.6 |
| 4/20/2015 | 8:53:35 | 57.09 | 54.79 | 804 | 0.31 | 0.35 | 43.9 |
| 4/20/2015 | 8:53:36 | 57.41 | 55.11 | 744 | 0.30 | 0.33 | 40.7 |
| 4/20/2015 | 8:53:37 | 57.63 | 55.33 | 632 | 0.30 | 0.36 | 34.5 |

## E255 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 8:51:36

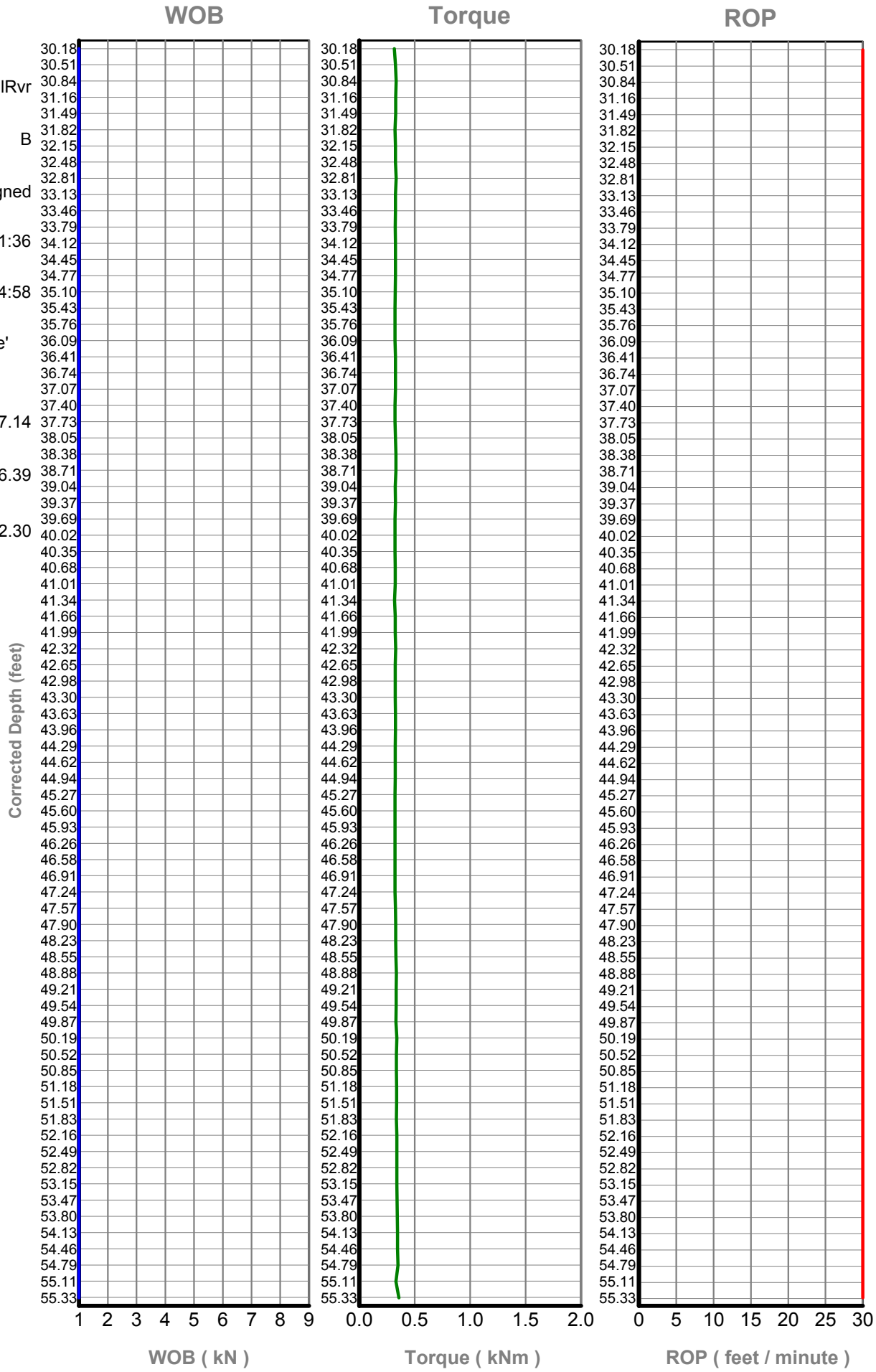
**End Date:**
4/20/2015 8:54:58

**Operator Note:**
'2.3 2.5 b Auto Complete'

**Northing:**
368,607.14

**Easting:**
253,776.39

**Tide (feet):**
2.30



## Hole: E256 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 8:48:49 | 32.48 | 30.08 | 997 | 0.32 | 0.32 | 54.5 |
| 4/20/2015 8:48:50 | 32.81 | 30.41 | 994 | 0.31 | 0.32 | 54.4 |
| 4/20/2015 8:48:50 | 33.14 | 30.74 | 994 | 0.31 | 0.32 | 54.4 |
| 4/20/2015 8:48:50 | 33.46 | 31.06 | 994 | 0.32 | 0.32 | 54.3 |
| 4/20/2015 8:48:51 | 33.79 | 31.39 | 1,002 | 0.33 | 0.32 | 54.8 |
| 4/20/2015 8:48:51 | 34.12 | 31.72 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/20/2015 8:48:52 | 34.45 | 32.05 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/20/2015 8:48:52 | 34.78 | 32.38 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:48:52 | 35.11 | 32.71 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/20/2015 8:48:53 | 35.43 | 33.03 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/20/2015 8:48:53 | 35.76 | 33.36 | 1,012 | 0.32 | 0.33 | 55.4 |
| 4/20/2015 8:48:53 | 36.09 | 33.69 | 1,007 | 0.32 | 0.33 | 55.0 |
| 4/20/2015 8:48:54 | 36.42 | 34.02 | 1,007 | 0.32 | 0.33 | 55.0 |
| 4/20/2015 8:48:54 | 36.75 | 34.35 | 1,007 | 0.33 | 0.32 | 55.0 |
| 4/20/2015 8:48:54 | 37.07 | 34.67 | 1,007 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:48:55 | 37.40 | 35.00 | 1,007 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:48:55 | 37.73 | 35.33 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/20/2015 8:48:55 | 38.06 | 35.66 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:48:56 | 38.39 | 35.99 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:48:56 | 38.71 | 36.31 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/20/2015 8:48:56 | 39.04 | 36.64 | 998 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:48:57 | 39.37 | 36.97 | 998 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:48:57 | 39.70 | 37.30 | 998 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:48:58 | 40.03 | 37.63 | 994 | 0.31 | 0.33 | 54.4 |
| 4/20/2015 8:48:58 | 40.35 | 37.95 | 994 | 0.31 | 0.33 | 54.4 |
| 4/20/2015 8:48:58 | 40.68 | 38.28 | 995 | 0.31 | 0.32 | 54.4 |
| 4/20/2015 8:48:59 | 41.01 | 38.61 | 995 | 0.29 | 0.32 | 54.4 |
| 4/20/2015 8:48:59 | 41.34 | 38.94 | 995 | 0.29 | 0.32 | 54.4 |
| 4/20/2015 8:48:59 | 41.67 | 39.27 | 990 | 0.31 | 0.33 | 54.2 |
| 4/20/2015 8:49:00 | 41.99 | 39.59 | 982 | 0.31 | 0.32 | 53.7 |
| 4/20/2015 8:49:00 | 42.32 | 39.92 | 982 | 0.31 | 0.32 | 53.7 |
| 4/20/2015 8:49:01 | 42.65 | 40.25 | 982 | 0.31 | 0.32 | 53.7 |
| 4/20/2015 8:49:01 | 42.98 | 40.58 | 996 | 0.31 | 0.32 | 54.5 |
| 4/20/2015 8:49:01 | 43.31 | 40.91 | 996 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:49:02 | 43.64 | 41.24 | 996 | 0.31 | 0.33 | 54.5 |
| 4/20/2015 8:49:02 | 43.96 | 41.56 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/20/2015 8:49:02 | 44.29 | 41.89 | 990 | 0.31 | 0.32 | 54.1 |
| 4/20/2015 8:49:03 | 44.62 | 42.22 | 990 | 0.31 | 0.32 | 54.1 |
| 4/20/2015 8:49:03 | 44.95 | 42.55 | 990 | 0.32 | 0.32 | 54.1 |
| 4/20/2015 8:49:03 | 45.28 | 42.88 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/20/2015 8:49:04 | 45.60 | 43.20 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/20/2015 8:49:04 | 45.93 | 43.53 | 992 | 0.32 | 0.32 | 54.2 |
| 4/20/2015 8:49:04 | 46.26 | 43.86 | 983 | 0.32 | 0.32 | 53.7 |
| 4/20/2015 8:49:05 | 46.59 | 44.19 | 983 | 0.32 | 0.32 | 53.7 |
| 4/20/2015 8:49:05 | 46.92 | 44.52 | 983 | 0.32 | 0.32 | 53.7 |
| 4/20/2015 8:49:05 | 47.24 | 44.84 | 983 | 0.32 | 0.32 | 53.7 |
| 4/20/2015 8:49:06 | 47.57 | 45.17 | 983 | 0.32 | 0.32 | 53.7 |
| 4/20/2015 8:49:06 | 47.90 | 45.50 | 1,012 | 0.31 | 0.32 | 55.4 |
| 4/20/2015 8:49:06 | 48.23 | 45.83 | 994 | 0.32 | 0.33 | 54.3 |
| 4/20/2015 8:49:07 | 48.56 | 46.16 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:49:07 | 48.88 | 46.48 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/20/2015 8:49:07 | 49.21 | 46.81 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/20/2015 8:49:08 | 49.54 | 47.14 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/20/2015 8:49:08 | 49.87 | 47.47 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/20/2015 8:49:09 | 50.20 | 47.80 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/20/2015 8:49:09 | 50.53 | 48.13 | 999 | 0.32 | 0.33 | 54.6 |
| 4/20/2015 8:49:10 | 50.85 | 48.45 | 999 | 0.32 | 0.33 | 54.6 |
| 4/20/2015 8:49:10 | 51.18 | 48.78 | 1,016 | 0.33 | 0.33 | 55.6 |
| 4/20/2015 8:49:10 | 51.51 | 49.11 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/20/2015 8:49:11 | 51.84 | 49.44 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/20/2015 8:49:11 | 52.17 | 49.77 | 1,002 | 0.31 | 0.33 | 54.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 8:49:11 | 52.49 | 50.09 | 969 | 0.32 | 0.33 | 53.0 |
| 4/20/2015 | 8:49:12 | 52.82 | 50.42 | 969 | 0.32 | 0.33 | 53.0 |
| 4/20/2015 | 8:49:12 | 53.15 | 50.75 | 969 | 0.31 | 0.33 | 53.0 |
| 4/20/2015 | 8:49:12 | 53.48 | 51.08 | 979 | 0.30 | 0.34 | 53.5 |
| 4/20/2015 | 8:49:13 | 53.81 | 51.41 | 933 | 0.30 | 0.35 | 51.0 |
| 4/20/2015 | 8:49:23 | 54.13 | 51.73 | 0 | 2.97 | 0.33 | 0.0 |
| 4/20/2015 | 8:49:23 | 54.46 | 52.06 | 0 | 2.76 | 0.35 | 0.0 |
| 4/20/2015 | 8:49:24 | 54.79 | 52.39 | 263 | 2.90 | 0.34 | 14.4 |
| 4/20/2015 | 8:49:25 | 55.12 | 52.72 | 263 | 2.90 | 0.34 | 14.4 |
| 4/20/2015 | 8:49:25 | 55.45 | 53.05 | 401 | 2.47 | 0.34 | 21.9 |
| 4/20/2015 | 8:49:25 | 55.77 | 53.37 | 559 | 2.46 | 0.34 | 30.6 |
| 4/20/2015 | 8:49:26 | 56.10 | 53.70 | 559 | 2.44 | 0.34 | 30.6 |
| 4/20/2015 | 8:49:26 | 56.43 | 54.03 | 735 | 2.45 | 0.34 | 40.2 |
| 4/20/2015 | 8:49:27 | 56.76 | 54.36 | 759 | 2.44 | 0.34 | 41.5 |
| 4/20/2015 | 8:49:27 | 57.09 | 54.69 | 759 | 2.44 | 0.34 | 41.5 |
| 4/20/2015 | 8:49:27 | 57.41 | 55.01 | 797 | 2.48 | 0.34 | 43.6 |
| 4/20/2015 | 8:49:28 | 57.74 | 55.34 | 828 | 2.48 | 0.34 | 45.3 |
| 4/20/2015 | 8:49:28 | 58.07 | 55.67 | 830 | 2.46 | 0.34 | 45.4 |
| 4/20/2015 | 8:49:29 | 58.40 | 56.00 | 805 | 2.45 | 0.34 | 44.0 |
| 4/20/2015 | 8:49:29 | 58.65 | 56.25 | 805 | 2.45 | 0.34 | 44.0 |

## E256 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 8:46:55

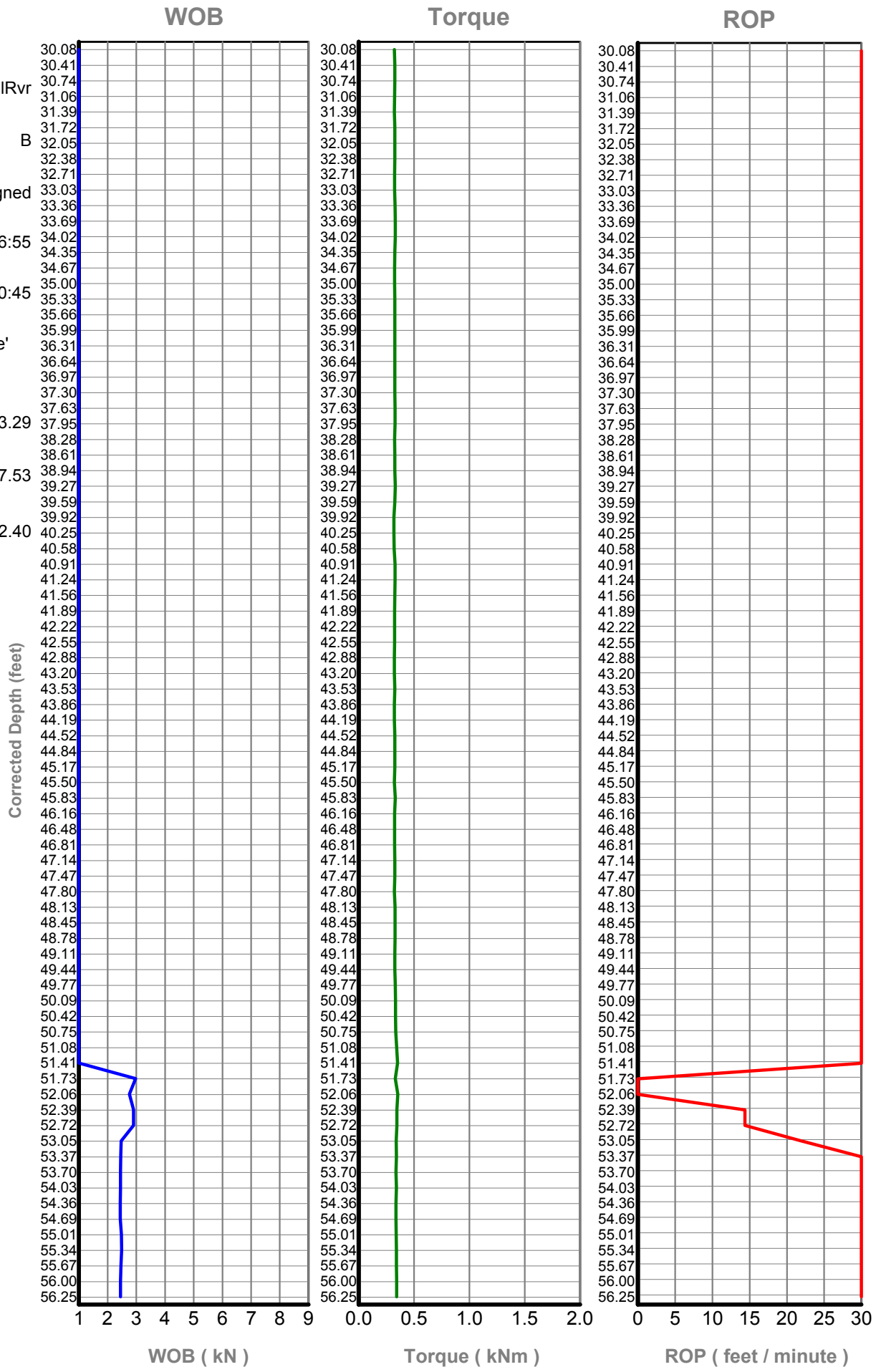
**End Date:**
4/20/2015 8:50:45

**Operator Note:**
'2.4 2.5 b Auto Complete'

**Northing:**
368,663.29

**Easting:**
253,837.53

**Tide (feet):**
2.40



## Hole: E257 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 16:35:47 | 34.45 | 30.05 | 937 | 0.42 | 0.34 | 51.3 |
| 4/19/2015 16:35:47 | 34.78 | 30.38 | 934 | 0.42 | 0.34 | 51.1 |
| 4/19/2015 16:35:48 | 35.11 | 30.71 | 934 | 0.42 | 0.34 | 51.1 |
| 4/19/2015 16:35:48 | 35.43 | 31.03 | 917 | 0.32 | 0.34 | 50.1 |
| 4/19/2015 16:35:48 | 35.76 | 31.36 | 917 | 0.33 | 0.34 | 50.1 |
| 4/19/2015 16:35:49 | 36.09 | 31.69 | 941 | 0.32 | 0.33 | 51.5 |
| 4/19/2015 16:35:49 | 36.42 | 32.02 | 941 | 0.32 | 0.33 | 51.5 |
| 4/19/2015 16:35:49 | 36.75 | 32.35 | 922 | 0.32 | 0.34 | 50.4 |
| 4/19/2015 16:35:50 | 37.07 | 32.67 | 943 | 0.39 | 0.34 | 51.5 |
| 4/19/2015 16:35:50 | 37.40 | 33.00 | 943 | 0.39 | 0.34 | 51.5 |
| 4/19/2015 16:35:50 | 37.73 | 33.33 | 937 | 0.31 | 0.33 | 51.2 |
| 4/19/2015 16:35:51 | 38.06 | 33.66 | 972 | 0.32 | 0.34 | 53.2 |
| 4/19/2015 16:35:51 | 38.39 | 33.99 | 947 | 0.34 | 0.33 | 51.8 |
| 4/19/2015 16:35:52 | 38.71 | 34.31 | 947 | 0.34 | 0.33 | 51.8 |
| 4/19/2015 16:35:52 | 39.04 | 34.64 | 947 | 0.32 | 0.34 | 51.8 |
| 4/19/2015 16:35:52 | 39.37 | 34.97 | 965 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:35:53 | 39.70 | 35.30 | 965 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:35:53 | 40.03 | 35.63 | 965 | 0.32 | 0.33 | 52.8 |
| 4/19/2015 16:35:53 | 40.35 | 35.95 | 968 | 0.33 | 0.34 | 53.0 |
| 4/19/2015 16:35:54 | 40.68 | 36.28 | 968 | 0.33 | 0.34 | 53.0 |
| 4/19/2015 16:35:54 | 41.01 | 36.61 | 980 | 0.32 | 0.34 | 53.6 |
| 4/19/2015 16:35:55 | 41.34 | 36.94 | 968 | 0.29 | 0.34 | 52.9 |
| 4/19/2015 16:35:55 | 41.67 | 37.27 | 985 | 0.31 | 0.34 | 53.9 |
| 4/19/2015 16:35:56 | 41.99 | 37.59 | 985 | 0.31 | 0.34 | 53.9 |
| 4/19/2015 16:35:56 | 42.32 | 37.92 | 987 | 0.32 | 0.34 | 54.0 |
| 4/19/2015 16:35:56 | 42.65 | 38.25 | 965 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:35:57 | 42.98 | 38.58 | 965 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:35:57 | 43.31 | 38.91 | 974 | 0.32 | 0.34 | 53.3 |
| 4/19/2015 16:35:57 | 43.64 | 39.24 | 974 | 0.33 | 0.33 | 53.3 |
| 4/19/2015 16:35:58 | 43.96 | 39.56 | 974 | 0.33 | 0.33 | 53.3 |
| 4/19/2015 16:35:58 | 44.29 | 39.89 | 952 | 0.32 | 0.34 | 52.1 |
| 4/19/2015 16:35:58 | 44.62 | 40.22 | 952 | 0.32 | 0.34 | 52.1 |
| 4/19/2015 16:35:59 | 44.95 | 40.55 | 963 | 0.31 | 0.33 | 52.6 |
| 4/19/2015 16:35:59 | 45.28 | 40.88 | 963 | 0.31 | 0.33 | 52.6 |
| 4/19/2015 16:35:59 | 45.60 | 41.20 | 978 | 0.32 | 0.33 | 53.5 |
| 4/19/2015 16:36:00 | 45.93 | 41.53 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:36:00 | 46.26 | 41.86 | 966 | 0.32 | 0.34 | 52.8 |
| 4/19/2015 16:36:00 | 46.59 | 42.19 | 948 | 0.32 | 0.34 | 51.9 |
| 4/19/2015 16:36:01 | 46.92 | 42.52 | 948 | 0.32 | 0.34 | 51.9 |
| 4/19/2015 16:36:01 | 47.24 | 42.84 | 980 | 0.31 | 0.34 | 53.6 |
| 4/19/2015 16:36:02 | 47.57 | 43.17 | 980 | 0.31 | 0.34 | 53.6 |
| 4/19/2015 16:36:02 | 47.90 | 43.50 | 980 | 0.32 | 0.33 | 53.6 |
| 4/19/2015 16:36:02 | 48.23 | 43.83 | 970 | 0.31 | 0.35 | 53.0 |
| 4/19/2015 16:36:03 | 48.56 | 44.16 | 970 | 0.31 | 0.35 | 53.0 |
| 4/19/2015 16:36:28 | 48.88 | 44.48 | 12 | 2.65 | 0.37 | 0.6 |
| 4/19/2015 16:36:29 | 49.21 | 44.81 | 47 | 2.65 | 0.38 | 2.5 |
| 4/19/2015 16:36:30 | 49.54 | 45.14 | 144 | 3.09 | 0.36 | 7.9 |
| 4/19/2015 16:36:42 | 49.87 | 45.47 | 84 | 4.47 | 0.38 | 4.6 |
| 4/19/2015 16:36:51 | 50.20 | 45.80 | 46 | 7.88 | 0.40 | 2.5 |
| 4/19/2015 16:36:54 | 50.53 | 46.13 | 118 | 4.68 | 0.40 | 6.5 |
| 4/19/2015 16:36:57 | 50.85 | 46.45 | 128 | 4.52 | 0.39 | 7.0 |
| 4/19/2015 16:36:59 | 51.18 | 46.78 | 194 | 3.58 | 0.40 | 10.6 |
| 4/19/2015 16:37:00 | 51.51 | 47.11 | 251 | 3.50 | 0.40 | 13.7 |
| 4/19/2015 16:37:01 | 51.84 | 47.44 | 280 | 3.09 | 0.37 | 15.3 |
| 4/19/2015 16:37:02 | 52.17 | 47.77 | 314 | 2.47 | 0.37 | 17.2 |
| 4/19/2015 16:37:02 | 52.49 | 48.09 | 382 | 2.23 | 0.37 | 20.9 |
| 4/19/2015 16:37:03 | 52.82 | 48.42 | 459 | 2.13 | 0.35 | 25.1 |
| 4/19/2015 16:37:03 | 53.15 | 48.75 | 536 | 2.31 | 0.36 | 29.3 |
| 4/19/2015 16:37:04 | 53.48 | 49.08 | 593 | 2.27 | 0.38 | 32.4 |
| 4/19/2015 16:37:04 | 53.81 | 49.41 | 609 | 2.17 | 0.36 | 33.3 |
| 4/19/2015 16:37:05 | 54.13 | 49.73 | 609 | 2.07 | 0.35 | 33.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 16:37:05 | 54.46 | 50.06 | 629 | 2.73 | 0.38 | 34.4 |
| 4/19/2015 | 16:37:06 | 54.79 | 50.39 | 590 | 3.03 | 0.38 | 32.3 |
| 4/19/2015 | 16:37:08 | 55.12 | 50.72 | 538 | 3.65 | 0.40 | 29.4 |
| 4/19/2015 | 16:37:09 | 55.45 | 51.05 | 438 | 2.96 | 0.38 | 23.9 |
| 4/19/2015 | 16:37:09 | 55.77 | 51.37 | 388 | 2.65 | 0.38 | 21.2 |
| 4/19/2015 | 16:37:10 | 56.10 | 51.70 | 390 | 2.67 | 0.38 | 21.3 |
| 4/19/2015 | 16:37:11 | 56.43 | 52.03 | 427 | 2.46 | 0.36 | 23.4 |
| 4/19/2015 | 16:37:11 | 56.76 | 52.36 | 477 | 2.18 | 0.36 | 26.1 |
| 4/19/2015 | 16:37:12 | 57.09 | 52.69 | 494 | 3.66 | 0.41 | 27.0 |
| 4/19/2015 | 16:37:14 | 57.41 | 53.01 | 327 | 2.82 | 0.40 | 17.9 |
| 4/19/2015 | 16:37:21 | 57.74 | 53.34 | 14 | 4.26 | 0.40 | 0.8 |
| 4/19/2015 | 16:37:22 | 58.07 | 53.67 | 168 | 3.03 | 0.39 | 9.2 |
| 4/19/2015 | 16:37:23 | 58.40 | 54.00 | 302 | 3.35 | 0.39 | 16.5 |
| 4/19/2015 | 16:37:23 | 58.73 | 54.33 | 394 | 3.41 | 0.39 | 21.5 |
| 4/19/2015 | 16:37:26 | 59.06 | 54.66 | 163 | 2.71 | 0.40 | 8.9 |
| 4/19/2015 | 16:37:34 | 59.38 | 54.98 | 35 | 3.25 | 0.41 | 1.9 |
| 4/19/2015 | 16:37:40 | 59.62 | 55.22 | 49 | 3.22 | 0.41 | 2.7 |

## E257 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 16:33:48

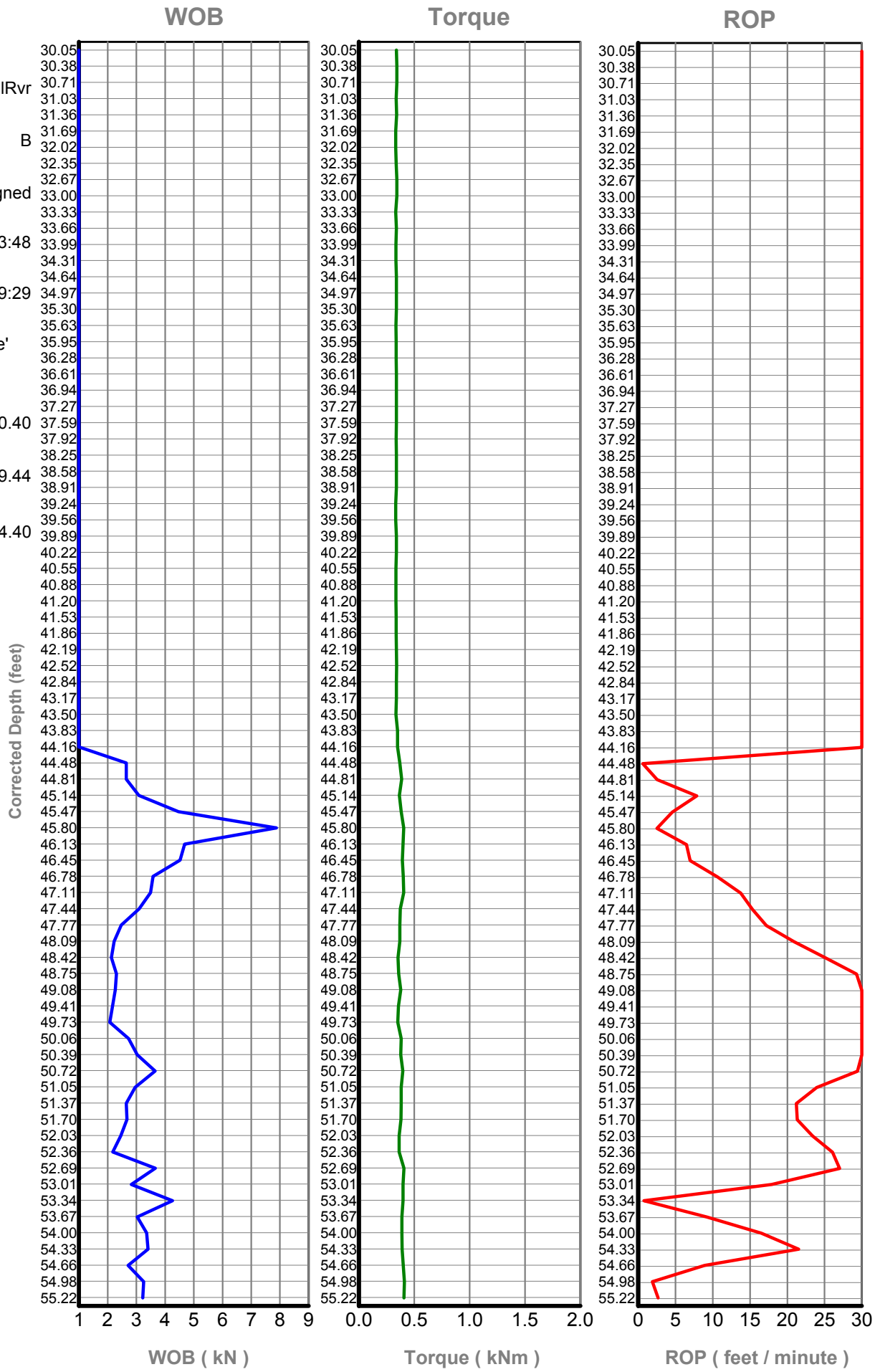
**End Date:**
4/19/2015 16:39:29

**Operator Note:**
'4.4 4.6 b Auto Complete'

**Northing:**
369,050.40

**Easting:**
254,089.44

**Tide (feet):**
4.40



## Hole: E258 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 19:57:31 | 32.81 | 30.21 | 326 | 1.38 | 0.13 | 17.8 |
| 4/20/2015 19:57:32 | 33.14 | 30.54 | 327 | 1.38 | 0.13 | 17.9 |
| 4/20/2015 19:57:33 | 33.46 | 30.86 | 322 | 1.38 | 0.13 | 17.6 |
| 4/20/2015 19:57:34 | 33.79 | 31.19 | 330 | 1.38 | 0.13 | 18.0 |
| 4/20/2015 19:57:35 | 34.12 | 31.52 | 325 | 1.34 | 0.13 | 17.8 |
| 4/20/2015 19:57:37 | 34.45 | 31.85 | 334 | 1.31 | 0.13 | 18.3 |
| 4/20/2015 19:57:38 | 34.78 | 32.18 | 330 | 1.36 | 0.13 | 18.0 |
| 4/20/2015 19:57:54 | 35.11 | 32.51 | 60 | 1.48 | 0.13 | 3.3 |
| 4/20/2015 19:57:55 | 35.43 | 32.83 | 185 | 1.45 | 0.13 | 10.1 |
| 4/20/2015 19:57:56 | 35.76 | 33.16 | 309 | 1.43 | 0.13 | 16.9 |
| 4/20/2015 19:57:57 | 36.09 | 33.49 | 306 | 1.38 | 0.13 | 16.8 |
| 4/20/2015 19:57:58 | 36.42 | 33.82 | 312 | 1.49 | 0.13 | 17.1 |
| 4/20/2015 19:58:00 | 36.75 | 34.15 | 313 | 1.40 | 0.13 | 17.1 |
| 4/20/2015 19:58:01 | 37.07 | 34.47 | 312 | 1.34 | 0.13 | 17.1 |
| 4/20/2015 19:58:02 | 37.40 | 34.80 | 312 | 1.40 | 0.13 | 17.1 |
| 4/20/2015 19:58:03 | 37.73 | 35.13 | 317 | 1.36 | 0.13 | 17.3 |
| 4/20/2015 19:58:04 | 38.06 | 35.46 | 315 | 1.37 | 0.13 | 17.2 |
| 4/20/2015 19:58:05 | 38.39 | 35.79 | 315 | 1.38 | 0.13 | 17.2 |
| 4/20/2015 19:58:07 | 38.71 | 36.11 | 317 | 1.41 | 0.13 | 17.3 |
| 4/20/2015 19:58:07 | 39.04 | 36.44 | 306 | 1.37 | 0.13 | 16.7 |
| 4/20/2015 19:58:09 | 39.37 | 36.77 | 310 | 1.51 | 0.13 | 17.0 |
| 4/20/2015 19:58:10 | 39.70 | 37.10 | 313 | 1.41 | 0.13 | 17.1 |
| 4/20/2015 19:58:11 | 40.03 | 37.43 | 318 | 1.36 | 0.13 | 17.4 |
| 4/20/2015 19:58:12 | 40.35 | 37.75 | 315 | 1.38 | 0.13 | 17.2 |
| 4/20/2015 19:58:13 | 40.68 | 38.08 | 310 | 1.42 | 0.13 | 16.9 |
| 4/20/2015 19:58:14 | 41.01 | 38.41 | 310 | 1.38 | 0.13 | 17.0 |
| 4/20/2015 19:58:15 | 41.34 | 38.74 | 313 | 1.43 | 0.13 | 17.1 |
| 4/20/2015 19:58:16 | 41.67 | 39.07 | 318 | 1.33 | 0.13 | 17.4 |
| 4/20/2015 19:58:18 | 41.99 | 39.39 | 311 | 1.34 | 0.13 | 17.0 |
| 4/20/2015 19:58:19 | 42.32 | 39.72 | 314 | 1.44 | 0.13 | 17.2 |
| 4/20/2015 19:58:20 | 42.65 | 40.05 | 319 | 1.35 | 0.13 | 17.5 |
| 4/20/2015 19:58:21 | 42.98 | 40.38 | 318 | 1.42 | 0.13 | 17.4 |
| 4/20/2015 19:58:22 | 43.31 | 40.71 | 315 | 1.40 | 0.13 | 17.2 |
| 4/20/2015 19:58:23 | 43.64 | 41.04 | 315 | 1.38 | 0.13 | 17.2 |
| 4/20/2015 19:58:25 | 43.96 | 41.36 | 312 | 1.38 | 0.13 | 17.1 |
| 4/20/2015 19:58:26 | 44.29 | 41.69 | 312 | 1.35 | 0.13 | 17.1 |
| 4/20/2015 19:58:27 | 44.62 | 42.02 | 310 | 1.44 | 0.13 | 17.0 |
| 4/20/2015 19:58:28 | 44.95 | 42.35 | 312 | 1.45 | 0.13 | 17.1 |
| 4/20/2015 19:58:29 | 45.28 | 42.68 | 315 | 1.45 | 0.13 | 17.2 |
| 4/20/2015 19:58:31 | 45.60 | 43.00 | 312 | 1.47 | 0.13 | 17.1 |
| 4/20/2015 19:58:32 | 45.93 | 43.33 | 312 | 1.37 | 0.13 | 17.1 |
| 4/20/2015 19:58:33 | 46.26 | 43.66 | 319 | 1.43 | 0.13 | 17.4 |
| 4/20/2015 19:58:34 | 46.59 | 43.99 | 315 | 1.39 | 0.13 | 17.2 |
| 4/20/2015 19:58:35 | 46.92 | 44.32 | 314 | 1.39 | 0.13 | 17.2 |
| 4/20/2015 19:58:36 | 47.24 | 44.64 | 306 | 1.34 | 0.13 | 16.7 |
| 4/20/2015 19:58:37 | 47.57 | 44.97 | 309 | 1.37 | 0.21 | 16.9 |
| 4/20/2015 19:58:39 | 47.90 | 45.30 | 311 | 1.40 | 0.13 | 17.0 |
| 4/20/2015 19:58:40 | 48.23 | 45.63 | 307 | 1.57 | 0.13 | 16.8 |
| 4/20/2015 19:59:19 | 48.56 | 45.96 | 76 | 1.53 | 1.11 | 4.2 |
| 4/20/2015 19:59:21 | 48.88 | 46.28 | 207 | 1.55 | 1.06 | 11.3 |
| 4/20/2015 19:59:26 | 49.21 | 46.61 | 60 | 1.66 | 0.89 | 3.3 |
| 4/20/2015 19:59:33 | 49.54 | 46.94 | 82 | 1.45 | 0.83 | 4.5 |
| 4/20/2015 19:59:35 | 49.87 | 47.27 | 220 | 1.53 | 0.86 | 12.1 |
| 4/20/2015 19:59:41 | 50.20 | 47.60 | 30 | 1.53 | 0.88 | 1.7 |
| 4/20/2015 19:59:42 | 50.53 | 47.93 | 129 | 1.53 | 0.85 | 7.0 |
| 4/20/2015 19:59:44 | 50.85 | 48.25 | 254 | 1.52 | 0.81 | 13.9 |
| 4/20/2015 19:59:46 | 51.18 | 48.58 | 199 | 1.45 | 0.82 | 10.9 |
| 4/20/2015 19:59:47 | 51.51 | 48.91 | 196 | 1.47 | 0.81 | 10.7 |
| 4/20/2015 19:59:58 | 51.84 | 49.24 | 26 | 1.48 | 0.82 | 1.4 |
| 4/20/2015 19:59:59 | 52.17 | 49.57 | 136 | 1.51 | 0.86 | 7.4 |
| 4/20/2015 20:00:00 | 52.49 | 49.89 | 269 | 1.51 | 0.81 | 14.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 20:00:02 | 52.82 | 50.22 | 268 | 1.53 | 0.90 | 14.6 |
| 4/20/2015 | 20:00:03 | 53.15 | 50.55 | 256 | 1.53 | 0.82 | 14.0 |
| 4/20/2015 | 20:00:06 | 53.48 | 50.88 | 128 | 1.60 | 0.89 | 7.0 |
| 4/20/2015 | 20:00:08 | 53.81 | 51.21 | 116 | 1.59 | 1.10 | 6.3 |
| 4/20/2015 | 20:00:17 | 54.13 | 51.53 | 89 | 1.56 | 0.93 | 4.9 |
| 4/20/2015 | 20:00:19 | 54.46 | 51.86 | 168 | 1.57 | 1.26 | 9.2 |
| 4/20/2015 | 20:00:20 | 54.79 | 52.19 | 221 | 1.53 | 1.00 | 12.1 |
| 4/20/2015 | 20:00:22 | 55.12 | 52.52 | 228 | 1.57 | 0.99 | 12.5 |
| 4/20/2015 | 20:00:37 | 55.45 | 52.85 | 46 | 1.54 | 0.98 | 2.5 |
| 4/20/2015 | 20:00:39 | 55.77 | 53.17 | 141 | 1.55 | 0.96 | 7.7 |
| 4/20/2015 | 20:00:42 | 56.10 | 53.50 | 110 | 1.55 | 0.93 | 6.0 |
| 4/20/2015 | 20:00:43 | 56.43 | 53.83 | 191 | 1.56 | 0.98 | 10.4 |
| 4/20/2015 | 20:00:46 | 56.76 | 54.16 | 195 | 1.57 | 1.00 | 10.7 |
| 4/20/2015 | 20:00:47 | 57.09 | 54.49 | 193 | 1.55 | 0.89 | 10.5 |
| 4/20/2015 | 20:00:49 | 57.41 | 54.81 | 201 | 1.57 | 0.91 | 11.0 |
| 4/20/2015 | 20:00:50 | 57.54 | 54.94 | 198 | 1.60 | 1.00 | 10.8 |

## E258 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 19:47:30

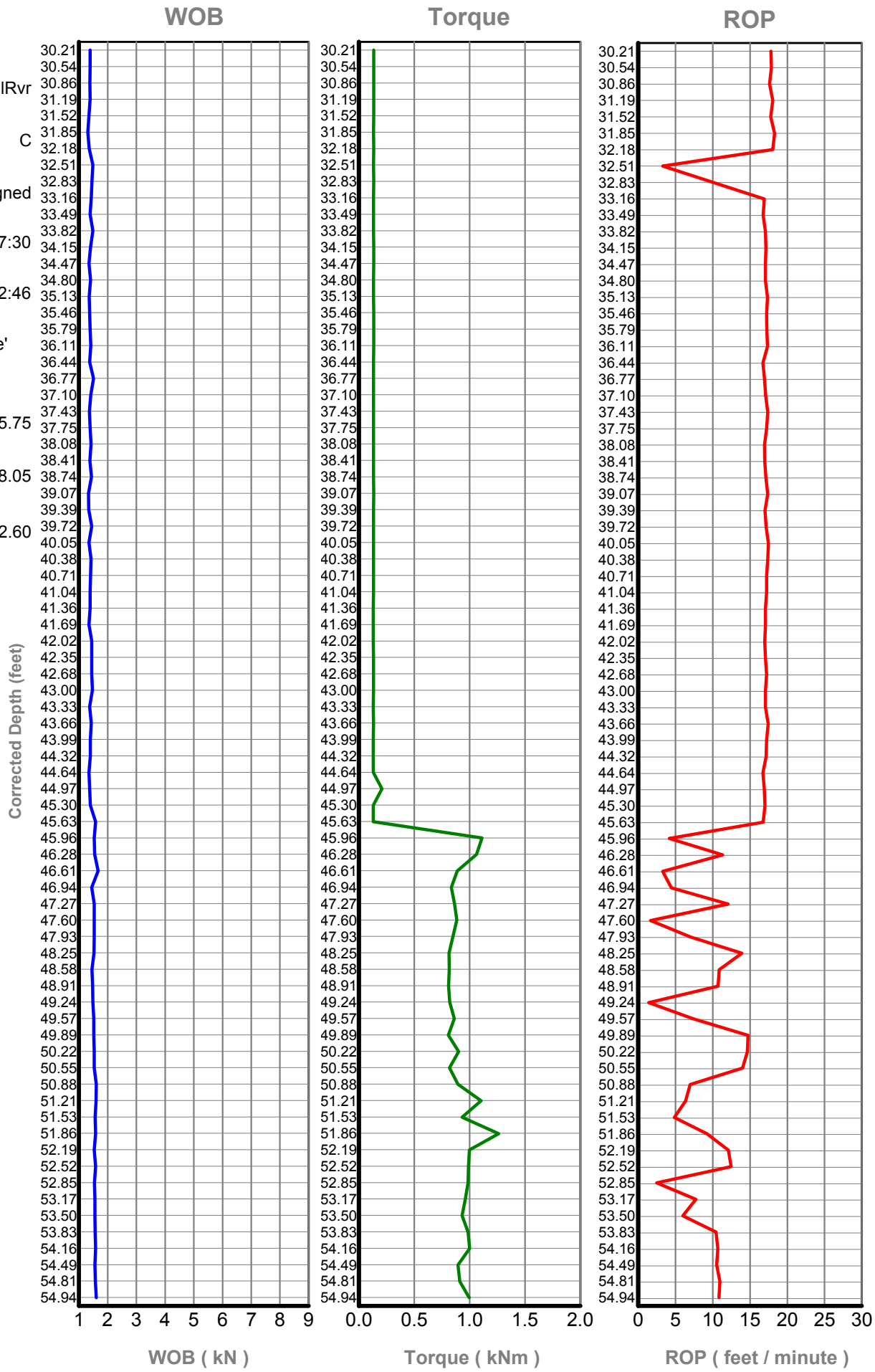
**End Date:**
4/20/2015 20:02:46

**Operator Note:**
'2.6 2.5 c Auto Complete'

**Northing:**
368,445.75

**Easting:**
253,698.05

**Tide (feet):**
2.60



## Hole: E26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 21:44:35 | 31.82 | 30.32 | 1,018 | 1.93 | 0.22 | 55.6 |
| 4/19/2015 21:44:35 | 32.15 | 30.65 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 21:44:35 | 32.48 | 30.98 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 21:44:36 | 32.81 | 31.31 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 21:44:36 | 33.14 | 31.64 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 21:44:36 | 33.46 | 31.96 | 1,010 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 21:44:45 | 33.79 | 32.29 | 12 | 1.93 | 0.22 | 0.6 |
| 4/19/2015 21:44:46 | 34.12 | 32.62 | 12 | 1.93 | 0.22 | 0.6 |
| 4/19/2015 21:44:46 | 34.45 | 32.95 | 183 | 1.93 | 0.22 | 10.0 |
| 4/19/2015 21:44:46 | 34.78 | 33.28 | 377 | 1.93 | 0.22 | 20.6 |
| 4/19/2015 21:44:47 | 35.11 | 33.61 | 574 | 1.93 | 0.22 | 31.4 |
| 4/19/2015 21:44:47 | 35.43 | 33.93 | 574 | 1.93 | 0.22 | 31.4 |
| 4/19/2015 21:44:47 | 35.76 | 34.26 | 763 | 1.93 | 0.22 | 41.7 |
| 4/19/2015 21:44:48 | 36.09 | 34.59 | 948 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 21:44:48 | 36.42 | 34.92 | 948 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 21:44:48 | 36.75 | 35.25 | 966 | 1.93 | 0.22 | 52.8 |
| 4/19/2015 21:44:49 | 37.07 | 35.57 | 968 | 1.93 | 0.22 | 52.9 |
| 4/19/2015 21:44:49 | 37.40 | 35.90 | 969 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 21:44:50 | 37.73 | 36.23 | 969 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 21:44:50 | 38.06 | 36.56 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 21:44:50 | 38.39 | 36.89 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 21:45:18 | 38.71 | 37.21 | 53 | 1.93 | 0.22 | 2.9 |
| 4/19/2015 21:45:20 | 39.04 | 37.54 | 192 | 1.93 | 0.22 | 10.5 |
| 4/19/2015 21:45:24 | 39.37 | 37.87 | 79 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 21:45:29 | 39.70 | 38.20 | 67 | 1.93 | 0.22 | 3.6 |
| 4/19/2015 21:45:34 | 40.03 | 38.53 | 55 | 1.93 | 0.22 | 3.0 |
| 4/19/2015 21:45:37 | 40.35 | 38.85 | 119 | 1.93 | 0.22 | 6.5 |
| 4/19/2015 21:45:39 | 40.68 | 39.18 | 173 | 1.93 | 0.22 | 9.5 |
| 4/19/2015 21:45:42 | 41.01 | 39.51 | 166 | 1.93 | 0.22 | 9.1 |
| 4/19/2015 21:45:46 | 41.34 | 39.84 | 118 | 1.93 | 0.22 | 6.4 |
| 4/19/2015 21:45:50 | 41.67 | 40.17 | 99 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 21:45:55 | 41.99 | 40.49 | 82 | 1.93 | 0.22 | 4.5 |
| 4/19/2015 21:45:56 | 42.32 | 40.82 | 159 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 21:45:58 | 42.65 | 41.15 | 284 | 1.93 | 0.22 | 15.5 |
| 4/19/2015 21:45:59 | 42.98 | 41.48 | 200 | 1.93 | 0.22 | 11.0 |
| 4/19/2015 21:46:00 | 43.31 | 41.81 | 221 | 1.93 | 0.22 | 12.1 |
| 4/19/2015 21:46:02 | 43.64 | 42.14 | 277 | 1.93 | 0.22 | 15.2 |
| 4/19/2015 21:46:20 | 43.96 | 42.46 | 17 | 1.93 | 0.22 | 0.9 |
| 4/19/2015 21:46:24 | 44.29 | 42.79 | 50 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 21:46:26 | 44.62 | 43.12 | 169 | 1.93 | 0.22 | 9.2 |
| 4/19/2015 21:46:29 | 44.95 | 43.45 | 103 | 1.93 | 0.22 | 5.6 |
| 4/19/2015 21:46:32 | 45.28 | 43.78 | 145 | 1.93 | 0.22 | 7.9 |
| 4/19/2015 21:46:33 | 45.60 | 44.10 | 160 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 21:46:35 | 45.93 | 44.43 | 203 | 1.93 | 0.22 | 11.1 |
| 4/19/2015 21:46:38 | 46.26 | 44.76 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 21:46:42 | 46.59 | 45.09 | 98 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 21:46:45 | 46.92 | 45.42 | 138 | 1.93 | 0.22 | 7.5 |
| 4/19/2015 21:46:47 | 47.24 | 45.74 | 134 | 1.93 | 0.22 | 7.3 |
| 4/19/2015 21:46:50 | 47.57 | 46.07 | 139 | 1.93 | 0.22 | 7.6 |
| 4/19/2015 21:46:54 | 47.90 | 46.40 | 69 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 21:46:59 | 48.23 | 46.73 | 14 | 1.93 | 0.22 | 0.8 |
| 4/19/2015 21:47:05 | 48.56 | 47.06 | 116 | 1.93 | 0.22 | 6.3 |
| 4/19/2015 21:47:08 | 48.88 | 47.38 | 59 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 21:47:09 | 49.21 | 47.71 | 210 | 1.93 | 0.22 | 11.5 |
| 4/19/2015 21:47:10 | 49.54 | 48.04 | 290 | 1.93 | 0.22 | 15.9 |
| 4/19/2015 21:47:11 | 49.87 | 48.37 | 305 | 1.93 | 0.22 | 16.7 |
| 4/19/2015 21:47:14 | 50.20 | 48.70 | 121 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 21:47:19 | 50.53 | 49.03 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 21:47:23 | 50.85 | 49.35 | 88 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 21:47:27 | 51.18 | 49.68 | 81 | 1.93 | 0.22 | 4.4 |
| 4/19/2015 21:47:31 | 51.51 | 50.01 | 87 | 1.93 | 0.22 | 4.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/19/2015 21:47:35 | 51.84 | 50.34 | 84 | 1.93 | 0.22 | 4.6 |
| 4/19/2015 21:47:40 | 52.17 | 50.67 | 84 | 1.93 | 0.22 | 4.6 |
| 4/19/2015 21:47:45 | 52.49 | 50.99 | 78 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 21:47:49 | 52.82 | 51.32 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 21:47:54 | 53.15 | 51.65 | 81 | 1.93 | 0.22 | 4.5 |
| 4/19/2015 21:47:57 | 53.48 | 51.98 | 95 | 1.93 | 0.22 | 5.2 |
| 4/19/2015 21:47:59 | 53.81 | 52.31 | 217 | 1.93 | 0.22 | 11.9 |
| 4/19/2015 21:48:01 | 54.13 | 52.63 | 209 | 1.93 | 0.22 | 11.4 |
| 4/19/2015 21:48:03 | 54.46 | 52.96 | 208 | 1.93 | 0.22 | 11.4 |
| 4/19/2015 21:48:05 | 54.79 | 53.29 | 186 | 1.93 | 0.22 | 10.2 |
| 4/19/2015 21:48:06 | 55.12 | 53.62 | 198 | 1.93 | 0.22 | 10.8 |
| 4/19/2015 21:48:08 | 55.45 | 53.95 | 194 | 1.93 | 0.22 | 10.6 |
| 4/19/2015 21:48:11 | 55.77 | 54.27 | 151 | 1.93 | 0.22 | 8.3 |
| 4/19/2015 21:48:13 | 56.10 | 54.60 | 131 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 21:48:14 | 56.18 | 54.68 | 128 | 1.93 | 0.22 | 7.0 |

## E26 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/19/2015 21:40:05

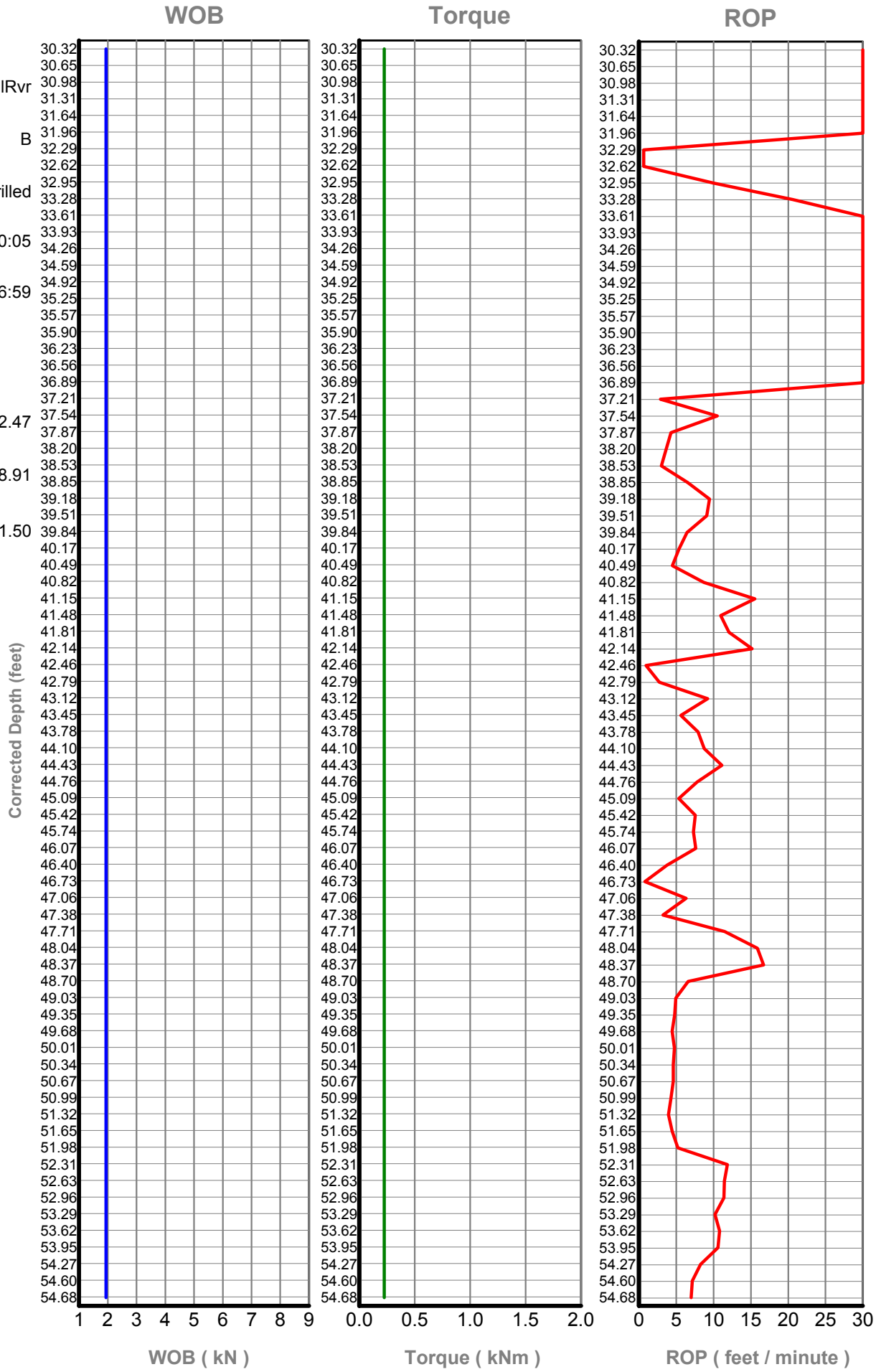
**End Date:**
4/19/2015 21:56:59

**Operator Note:**
'1.5 '0.7 1.1 b Auto Complete'

**Northing:**
369,342.47

**Easting:**
253,738.91

**Tide (feet):**
1.50



## Hole: E27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 22:00:21 | 32.15 | 30.25 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 22:00:21 | 32.48 | 30.58 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 22:00:22 | 32.81 | 30.91 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/19/2015 22:00:22 | 33.14 | 31.24 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/19/2015 22:00:22 | 33.46 | 31.56 | 998 | 1.93 | 0.22 | 54.6 |
| 4/19/2015 22:00:23 | 33.79 | 31.89 | 999 | 1.93 | 0.22 | 54.6 |
| 4/19/2015 22:00:23 | 34.12 | 32.22 | 999 | 1.93 | 0.22 | 54.6 |
| 4/19/2015 22:00:23 | 34.45 | 32.55 | 1,010 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 22:00:24 | 34.78 | 32.88 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 22:00:24 | 35.11 | 33.21 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 22:00:24 | 35.43 | 33.53 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 22:00:25 | 35.76 | 33.86 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 22:00:25 | 36.09 | 34.19 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 22:00:26 | 36.42 | 34.52 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 22:00:26 | 36.75 | 34.85 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 22:00:26 | 37.07 | 35.17 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 22:00:27 | 37.40 | 35.50 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 22:00:27 | 37.73 | 35.83 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 22:00:27 | 38.06 | 36.16 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 22:00:28 | 38.39 | 36.49 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 22:00:28 | 38.71 | 36.81 | 1,012 | 1.93 | 0.22 | 55.4 |
| 4/19/2015 22:00:28 | 39.04 | 37.14 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 22:00:29 | 39.37 | 37.47 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 22:00:29 | 39.70 | 37.80 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 22:00:29 | 40.03 | 38.13 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 22:00:30 | 40.35 | 38.45 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 22:00:31 | 40.68 | 38.78 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 22:00:31 | 41.01 | 39.11 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 22:00:45 | 41.34 | 39.44 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 22:01:11 | 41.67 | 39.77 | 29 | 1.93 | 0.22 | 1.6 |
| 4/19/2015 22:01:13 | 41.99 | 40.09 | 122 | 1.93 | 0.22 | 6.7 |
| 4/19/2015 22:01:16 | 42.32 | 40.42 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 22:01:18 | 42.65 | 40.75 | 158 | 1.93 | 0.22 | 8.6 |
| 4/19/2015 22:01:20 | 42.98 | 41.08 | 174 | 1.93 | 0.22 | 9.5 |
| 4/19/2015 22:01:22 | 43.31 | 41.41 | 156 | 1.93 | 0.22 | 8.5 |
| 4/19/2015 22:01:24 | 43.64 | 41.74 | 192 | 1.93 | 0.22 | 10.5 |
| 4/19/2015 22:01:26 | 43.96 | 42.06 | 174 | 1.93 | 0.22 | 9.5 |
| 4/19/2015 22:01:42 | 44.29 | 42.39 | 3 | 1.93 | 0.22 | 0.2 |
| 4/19/2015 22:01:44 | 44.62 | 42.72 | 158 | 1.93 | 0.22 | 8.6 |
| 4/19/2015 22:01:45 | 44.95 | 43.05 | 88 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 22:01:47 | 45.28 | 43.38 | 234 | 1.93 | 0.22 | 12.8 |
| 4/19/2015 22:01:58 | 45.60 | 43.70 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 22:02:15 | 45.93 | 44.03 | 38 | 1.93 | 0.22 | 2.1 |
| 4/19/2015 22:02:17 | 46.26 | 44.36 | 140 | 1.93 | 0.22 | 7.6 |
| 4/19/2015 22:02:18 | 46.59 | 44.69 | 253 | 1.93 | 0.22 | 13.9 |
| 4/19/2015 22:02:19 | 46.92 | 45.02 | 320 | 1.93 | 0.22 | 17.5 |
| 4/19/2015 22:02:20 | 47.24 | 45.34 | 326 | 1.93 | 0.22 | 17.8 |
| 4/19/2015 22:02:21 | 47.57 | 45.67 | 334 | 1.93 | 0.22 | 18.3 |
| 4/19/2015 22:02:21 | 47.90 | 46.00 | 382 | 1.93 | 0.22 | 20.9 |
| 4/19/2015 22:02:23 | 48.23 | 46.33 | 308 | 1.93 | 0.22 | 16.8 |
| 4/19/2015 22:02:26 | 48.56 | 46.66 | 139 | 1.93 | 0.22 | 7.6 |
| 4/19/2015 22:02:26 | 48.88 | 46.98 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 22:02:27 | 49.21 | 47.31 | 359 | 1.93 | 0.22 | 19.6 |
| 4/19/2015 22:02:28 | 49.54 | 47.64 | 395 | 1.93 | 0.22 | 21.6 |
| 4/19/2015 22:02:29 | 49.87 | 47.97 | 387 | 1.93 | 0.22 | 21.2 |
| 4/19/2015 22:02:34 | 50.20 | 48.30 | 67 | 1.93 | 0.22 | 3.7 |
| 4/19/2015 22:02:34 | 50.53 | 48.63 | 164 | 1.93 | 0.22 | 9.0 |
| 4/19/2015 22:02:35 | 50.85 | 48.95 | 281 | 1.93 | 0.22 | 15.4 |
| 4/19/2015 22:02:35 | 51.18 | 49.28 | 405 | 1.93 | 0.22 | 22.1 |
| 4/19/2015 22:02:36 | 51.51 | 49.61 | 558 | 1.93 | 0.22 | 30.5 |
| 4/19/2015 22:02:37 | 51.84 | 49.94 | 424 | 1.93 | 0.22 | 23.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 22:02:39 | 52.17 | 50.27 | 268 | 1.93 | 0.22 | 14.7 |
| 4/19/2015 | 22:02:43 | 52.49 | 50.59 | 55 | 1.93 | 0.22 | 3.0 |
| 4/19/2015 | 22:02:48 | 52.82 | 50.92 | 85 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 | 22:02:50 | 53.15 | 51.25 | 151 | 1.93 | 0.22 | 8.2 |
| 4/19/2015 | 22:02:51 | 53.48 | 51.58 | 245 | 1.93 | 0.22 | 13.4 |
| 4/19/2015 | 22:02:53 | 53.81 | 51.91 | 226 | 1.93 | 0.22 | 12.4 |
| 4/19/2015 | 22:02:55 | 54.13 | 52.23 | 186 | 1.93 | 0.22 | 10.2 |
| 4/19/2015 | 22:02:58 | 54.46 | 52.56 | 129 | 1.93 | 0.22 | 7.1 |
| 4/19/2015 | 22:03:02 | 54.79 | 52.89 | 97 | 1.93 | 0.22 | 5.3 |
| 4/19/2015 | 22:03:06 | 55.12 | 53.22 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 | 22:03:09 | 55.45 | 53.55 | 93 | 1.93 | 0.22 | 5.1 |
| 4/19/2015 | 22:03:13 | 55.77 | 53.87 | 99 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 | 22:03:17 | 56.10 | 54.20 | 96 | 1.93 | 0.22 | 5.2 |
| 4/19/2015 | 22:03:21 | 56.43 | 54.53 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 | 22:03:25 | 56.76 | 54.86 | 102 | 1.93 | 0.22 | 5.6 |
| 4/19/2015 | 22:03:30 | 56.97 | 55.07 | 10 | 1.93 | 0.22 | 0.6 |

## E27 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 21:57:04

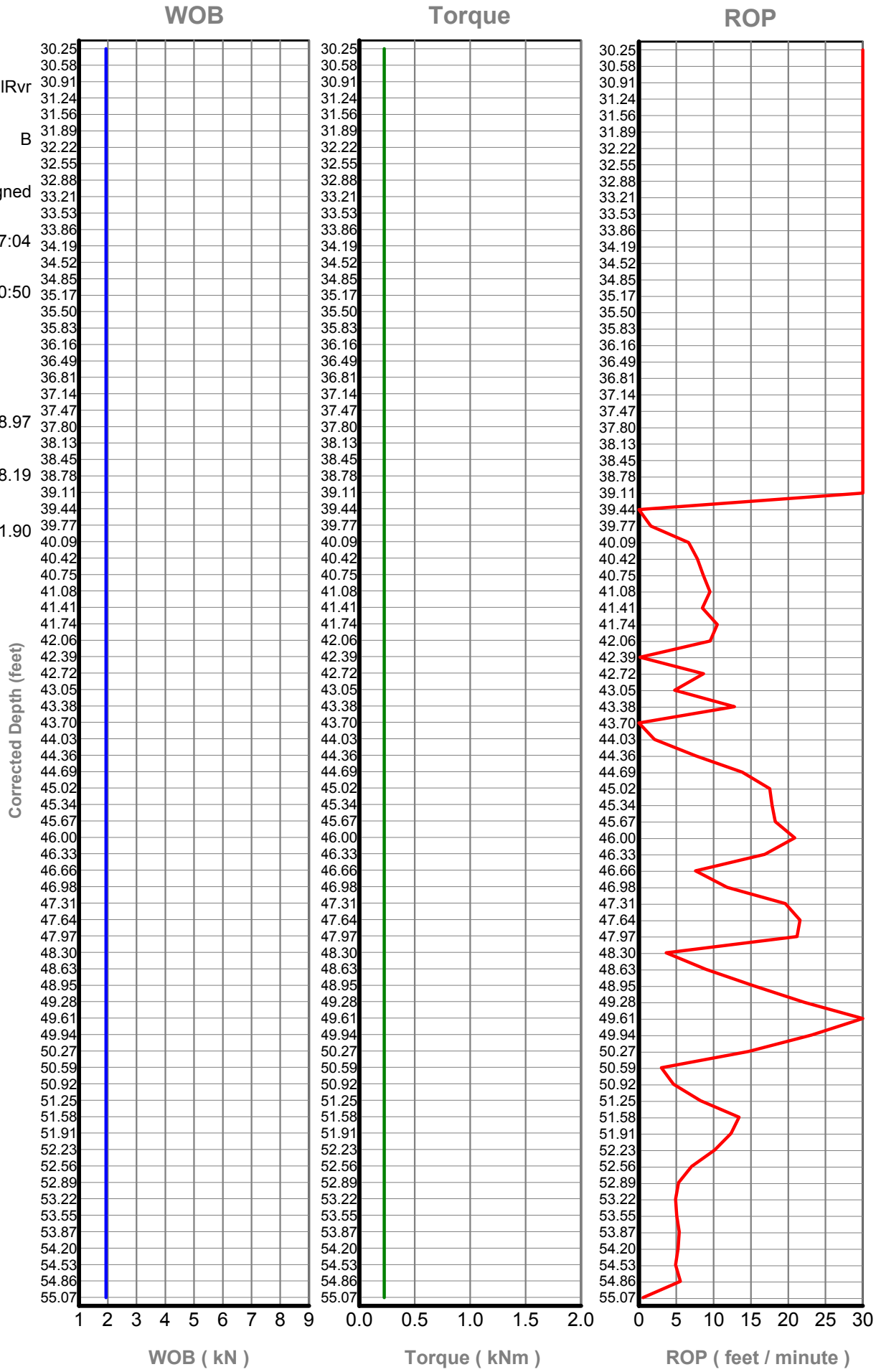
**End Date:**
4/19/2015 22:10:50

**Operator Note:**
'1.9 '0.7 1.9 b Auto Complete'

**Northing:**
369,388.97

**Easting:**
253,798.19

**Tide (feet):**
1.90



## Hole: E28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:27:42 | 33.14 | 30.24 | 952 | 0.36 | 0.32 | 52.0 |
| 4/22/2015 0:27:42 | 33.46 | 30.56 | 942 | 0.36 | 0.33 | 51.5 |
| 4/22/2015 0:27:43 | 33.79 | 30.89 | 942 | 0.36 | 0.33 | 51.5 |
| 4/22/2015 0:27:43 | 34.12 | 31.22 | 936 | 0.36 | 0.32 | 51.2 |
| 4/22/2015 0:27:43 | 34.45 | 31.55 | 948 | 0.38 | 0.32 | 51.8 |
| 4/22/2015 0:27:44 | 34.78 | 31.88 | 948 | 0.38 | 0.32 | 51.8 |
| 4/22/2015 0:27:44 | 35.11 | 32.21 | 933 | 0.36 | 0.32 | 51.0 |
| 4/22/2015 0:27:44 | 35.43 | 32.53 | 933 | 0.36 | 0.33 | 51.0 |
| 4/22/2015 0:27:45 | 35.76 | 32.86 | 929 | 0.35 | 0.33 | 50.8 |
| 4/22/2015 0:27:45 | 36.09 | 33.19 | 929 | 0.35 | 0.33 | 50.8 |
| 4/22/2015 0:27:45 | 36.42 | 33.52 | 929 | 0.36 | 0.33 | 50.8 |
| 4/22/2015 0:27:46 | 36.75 | 33.85 | 953 | 0.35 | 0.32 | 52.1 |
| 4/22/2015 0:27:46 | 37.07 | 34.17 | 927 | 0.36 | 0.32 | 50.7 |
| 4/22/2015 0:27:47 | 37.40 | 34.50 | 927 | 0.36 | 0.32 | 50.7 |
| 4/22/2015 0:27:47 | 37.73 | 34.83 | 930 | 0.36 | 0.32 | 50.9 |
| 4/22/2015 0:27:47 | 38.06 | 35.16 | 945 | 0.36 | 0.33 | 51.7 |
| 4/22/2015 0:27:48 | 38.39 | 35.49 | 945 | 0.36 | 0.33 | 51.7 |
| 4/22/2015 0:27:48 | 38.71 | 35.81 | 950 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:27:48 | 39.04 | 36.14 | 953 | 0.35 | 0.33 | 52.1 |
| 4/22/2015 0:27:49 | 39.37 | 36.47 | 975 | 0.36 | 0.32 | 53.3 |
| 4/22/2015 0:27:50 | 39.70 | 36.80 | 975 | 0.36 | 0.32 | 53.3 |
| 4/22/2015 0:27:50 | 40.03 | 37.13 | 953 | 0.35 | 0.33 | 52.1 |
| 4/22/2015 0:27:50 | 40.35 | 37.45 | 958 | 0.36 | 0.32 | 52.4 |
| 4/22/2015 0:27:51 | 40.68 | 37.78 | 958 | 0.36 | 0.32 | 52.4 |
| 4/22/2015 0:27:51 | 41.01 | 38.11 | 953 | 0.36 | 0.32 | 52.1 |
| 4/22/2015 0:27:51 | 41.34 | 38.44 | 953 | 0.36 | 0.32 | 52.1 |
| 4/22/2015 0:27:52 | 41.67 | 38.77 | 946 | 0.36 | 0.32 | 51.8 |
| 4/22/2015 0:27:52 | 41.99 | 39.09 | 946 | 0.36 | 0.32 | 51.8 |
| 4/22/2015 0:27:52 | 42.32 | 39.42 | 961 | 0.36 | 0.32 | 52.6 |
| 4/22/2015 0:27:53 | 42.65 | 39.75 | 957 | 0.36 | 0.33 | 52.3 |
| 4/22/2015 0:27:53 | 42.98 | 40.08 | 957 | 0.36 | 0.32 | 52.3 |
| 4/22/2015 0:27:54 | 43.31 | 40.41 | 957 | 0.36 | 0.32 | 52.3 |
| 4/22/2015 0:27:54 | 43.64 | 40.74 | 959 | 0.35 | 0.32 | 52.5 |
| 4/22/2015 0:27:54 | 43.96 | 41.06 | 948 | 0.36 | 0.33 | 51.8 |
| 4/22/2015 0:27:55 | 44.29 | 41.39 | 948 | 0.36 | 0.33 | 51.8 |
| 4/22/2015 0:27:55 | 44.62 | 41.72 | 948 | 0.35 | 0.33 | 51.8 |
| 4/22/2015 0:27:55 | 44.95 | 42.05 | 951 | 0.36 | 0.32 | 52.0 |
| 4/22/2015 0:27:56 | 45.28 | 42.38 | 918 | 0.35 | 0.33 | 50.2 |
| 4/22/2015 0:27:56 | 45.60 | 42.70 | 918 | 0.35 | 0.33 | 50.2 |
| 4/22/2015 0:27:56 | 45.93 | 43.03 | 918 | 0.35 | 0.33 | 50.2 |
| 4/22/2015 0:27:57 | 46.26 | 43.36 | 941 | 0.35 | 0.33 | 51.4 |
| 4/22/2015 0:27:57 | 46.59 | 43.69 | 941 | 0.35 | 0.33 | 51.4 |
| 4/22/2015 0:27:57 | 46.92 | 44.02 | 941 | 0.36 | 0.32 | 51.4 |
| 4/22/2015 0:27:58 | 47.24 | 44.34 | 928 | 0.34 | 0.35 | 50.8 |
| 4/22/2015 0:27:58 | 47.57 | 44.67 | 928 | 0.34 | 0.36 | 50.8 |
| 4/22/2015 0:27:59 | 47.90 | 45.00 | 868 | 0.35 | 0.35 | 47.4 |
| 4/22/2015 0:27:59 | 48.23 | 45.33 | 840 | 0.35 | 0.35 | 45.9 |
| 4/22/2015 0:28:00 | 48.56 | 45.66 | 787 | 0.34 | 0.36 | 43.0 |
| 4/22/2015 0:28:01 | 48.88 | 45.98 | 610 | 0.33 | 0.38 | 33.4 |
| 4/22/2015 0:29:11 | 49.21 | 46.31 | 69 | 2.92 | 0.36 | 3.8 |
| 4/22/2015 0:29:15 | 49.54 | 46.64 | 85 | 3.05 | 0.38 | 4.6 |
| 4/22/2015 0:29:16 | 49.87 | 46.97 | 182 | 3.01 | 0.39 | 9.9 |
| 4/22/2015 0:29:18 | 50.20 | 47.30 | 230 | 3.06 | 0.39 | 12.6 |
| 4/22/2015 0:29:21 | 50.53 | 47.63 | 35 | 2.97 | 0.37 | 1.9 |
| 4/22/2015 0:29:22 | 50.85 | 47.95 | 163 | 2.84 | 0.37 | 8.9 |
| 4/22/2015 0:29:23 | 51.18 | 48.28 | 260 | 2.57 | 0.36 | 14.2 |
| 4/22/2015 0:29:24 | 51.51 | 48.61 | 366 | 2.49 | 0.36 | 20.0 |
| 4/22/2015 0:29:25 | 51.84 | 48.94 | 480 | 2.76 | 0.38 | 26.2 |
| 4/22/2015 0:29:27 | 52.17 | 49.27 | 145 | 3.26 | 0.40 | 8.0 |
| 4/22/2015 0:29:29 | 52.49 | 49.59 | 130 | 3.07 | 0.39 | 7.1 |
| 4/22/2015 0:29:31 | 52.82 | 49.92 | 237 | 2.76 | 0.36 | 12.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:29:31 | 53.15 | 50.25 | 330 | 2.44 | 0.35 | 18.1 |
| 4/22/2015 | 0:29:32 | 53.48 | 50.58 | 416 | 2.19 | 0.35 | 22.7 |
| 4/22/2015 | 0:29:32 | 53.81 | 50.91 | 512 | 2.09 | 0.33 | 28.0 |
| 4/22/2015 | 0:29:33 | 54.13 | 51.23 | 629 | 2.14 | 0.33 | 34.4 |
| 4/22/2015 | 0:29:33 | 54.46 | 51.56 | 629 | 2.14 | 0.33 | 34.4 |
| 4/22/2015 | 0:29:33 | 54.79 | 51.89 | 714 | 2.57 | 0.34 | 39.0 |
| 4/22/2015 | 0:29:37 | 55.12 | 52.22 | 120 | 2.98 | 0.40 | 6.6 |
| 4/22/2015 | 0:29:40 | 55.45 | 52.55 | 98 | 2.84 | 0.39 | 5.4 |
| 4/22/2015 | 0:29:42 | 55.77 | 52.87 | 139 | 2.95 | 0.39 | 7.6 |
| 4/22/2015 | 0:29:44 | 56.10 | 53.20 | 194 | 2.74 | 0.38 | 10.6 |
| 4/22/2015 | 0:29:46 | 56.43 | 53.53 | 227 | 2.71 | 0.40 | 12.4 |
| 4/22/2015 | 0:29:49 | 56.76 | 53.86 | 115 | 2.76 | 0.39 | 6.3 |
| 4/22/2015 | 0:29:51 | 57.09 | 54.19 | 177 | 2.73 | 0.39 | 9.7 |
| 4/22/2015 | 0:29:53 | 57.41 | 54.51 | 165 | 2.85 | 0.39 | 9.0 |
| 4/22/2015 | 0:29:55 | 57.74 | 54.84 | 162 | 2.79 | 0.39 | 8.9 |
| 4/22/2015 | 0:29:58 | 58.07 | 55.17 | 147 | 2.71 | 0.39 | 8.1 |
| 4/22/2015 | 0:29:58 | 58.21 | 55.31 | 150 | 2.65 | 0.39 | 8.2 |

## E28 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 0:14:12

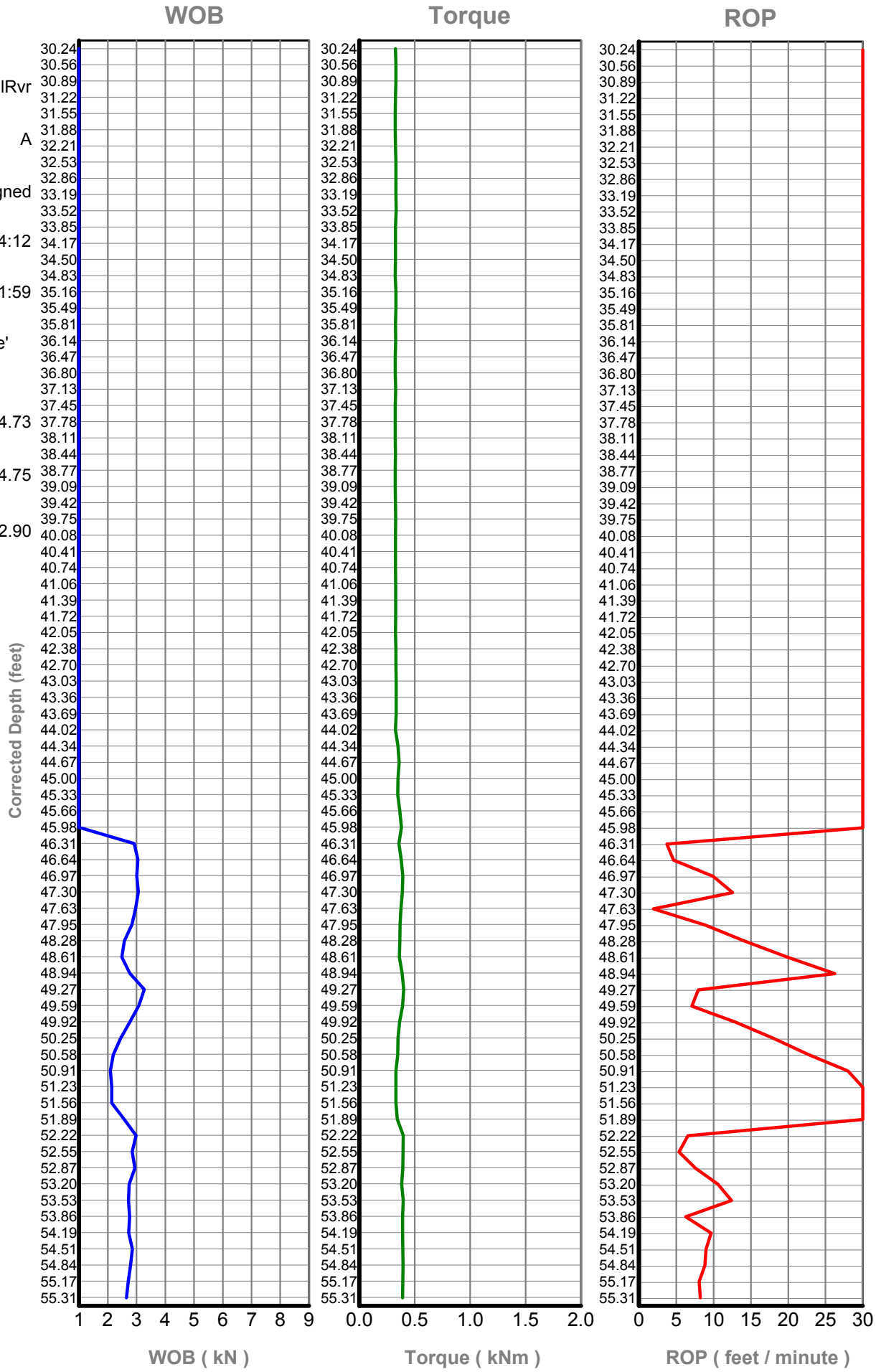
**End Date:**
4/22/2015 0:31:59

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
368,404.73

**Easting:**
252,694.75

**Tide (feet):**
2.90



## Hole: E29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:36:55 | 33.79 | 30.09 | 952 | 0.35 | 0.33 | 52.1 |
| 4/22/2015 0:36:55 | 34.12 | 30.42 | 952 | 0.35 | 0.33 | 52.1 |
| 4/22/2015 0:36:55 | 34.45 | 30.75 | 955 | 0.35 | 0.32 | 52.2 |
| 4/22/2015 0:36:56 | 34.78 | 31.08 | 963 | 0.35 | 0.33 | 52.7 |
| 4/22/2015 0:36:56 | 35.11 | 31.41 | 963 | 0.35 | 0.33 | 52.7 |
| 4/22/2015 0:36:56 | 35.43 | 31.73 | 957 | 0.34 | 0.32 | 52.4 |
| 4/22/2015 0:36:57 | 35.76 | 32.06 | 960 | 0.34 | 0.33 | 52.5 |
| 4/22/2015 0:36:57 | 36.09 | 32.39 | 940 | 0.34 | 0.33 | 51.4 |
| 4/22/2015 0:36:58 | 36.42 | 32.72 | 940 | 0.34 | 0.33 | 51.4 |
| 4/22/2015 0:36:58 | 36.75 | 33.05 | 949 | 0.34 | 0.33 | 51.9 |
| 4/22/2015 0:36:58 | 37.07 | 33.37 | 943 | 0.34 | 0.33 | 51.6 |
| 4/22/2015 0:36:59 | 37.40 | 33.70 | 943 | 0.34 | 0.33 | 51.6 |
| 4/22/2015 0:36:59 | 37.73 | 34.03 | 940 | 0.36 | 0.32 | 51.4 |
| 4/22/2015 0:37:10 | 38.06 | 34.36 | 0 | 0.29 | 0.37 | 0.0 |
| 4/22/2015 0:37:11 | 38.39 | 34.69 | 47 | 0.33 | 0.33 | 2.6 |
| 4/22/2015 0:37:12 | 38.71 | 35.01 | 230 | 0.33 | 0.32 | 12.6 |
| 4/22/2015 0:37:12 | 39.04 | 35.34 | 415 | 0.33 | 0.33 | 22.7 |
| 4/22/2015 0:37:13 | 39.37 | 35.67 | 415 | 0.33 | 0.33 | 22.7 |
| 4/22/2015 0:37:13 | 39.70 | 36.00 | 607 | 0.33 | 0.32 | 33.2 |
| 4/22/2015 0:37:13 | 40.03 | 36.33 | 801 | 0.33 | 0.33 | 43.8 |
| 4/22/2015 0:37:14 | 40.35 | 36.65 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 0:37:14 | 40.68 | 36.98 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 0:37:14 | 41.01 | 37.31 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 0:37:15 | 41.34 | 37.64 | 958 | 0.33 | 0.33 | 52.4 |
| 4/22/2015 0:37:15 | 41.67 | 37.97 | 958 | 0.33 | 0.33 | 52.4 |
| 4/22/2015 0:37:15 | 41.99 | 38.29 | 958 | 0.33 | 0.32 | 52.4 |
| 4/22/2015 0:37:16 | 42.32 | 38.62 | 949 | 0.33 | 0.33 | 51.9 |
| 4/22/2015 0:37:16 | 42.65 | 38.95 | 952 | 0.33 | 0.32 | 52.1 |
| 4/22/2015 0:37:17 | 42.98 | 39.28 | 952 | 0.33 | 0.32 | 52.1 |
| 4/22/2015 0:37:17 | 43.31 | 39.61 | 963 | 0.33 | 0.33 | 52.7 |
| 4/22/2015 0:37:17 | 43.64 | 39.94 | 945 | 0.33 | 0.32 | 51.7 |
| 4/22/2015 0:37:18 | 43.96 | 40.26 | 945 | 0.33 | 0.32 | 51.7 |
| 4/22/2015 0:37:18 | 44.29 | 40.59 | 948 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:37:18 | 44.62 | 40.92 | 948 | 0.33 | 0.32 | 51.9 |
| 4/22/2015 0:37:19 | 44.95 | 41.25 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:37:19 | 45.28 | 41.58 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:37:19 | 45.60 | 41.90 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:37:20 | 45.93 | 42.23 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:37:20 | 46.26 | 42.56 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 0:37:21 | 46.59 | 42.89 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 0:37:21 | 46.92 | 43.22 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:37:21 | 47.24 | 43.54 | 948 | 0.33 | 0.32 | 51.8 |
| 4/22/2015 0:37:22 | 47.57 | 43.87 | 948 | 0.33 | 0.32 | 51.8 |
| 4/22/2015 0:37:22 | 47.90 | 44.20 | 945 | 0.33 | 0.32 | 51.7 |
| 4/22/2015 0:37:23 | 48.23 | 44.53 | 948 | 0.33 | 0.33 | 51.8 |
| 4/22/2015 0:37:23 | 48.56 | 44.86 | 951 | 0.40 | 0.32 | 52.0 |
| 4/22/2015 0:37:24 | 48.88 | 45.18 | 951 | 0.40 | 0.32 | 52.0 |
| 4/22/2015 0:37:24 | 49.21 | 45.51 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:37:24 | 49.54 | 45.84 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 0:37:25 | 49.87 | 46.17 | 957 | 0.33 | 0.33 | 52.3 |
| 4/22/2015 0:37:25 | 50.20 | 46.50 | 951 | 0.33 | 0.34 | 52.0 |
| 4/22/2015 0:37:26 | 50.53 | 46.83 | 636 | 0.31 | 0.39 | 34.8 |
| 4/22/2015 0:37:59 | 50.85 | 47.15 | 2 | 3.11 | 0.39 | 0.1 |
| 4/22/2015 0:38:08 | 51.18 | 47.48 | 31 | 4.19 | 0.40 | 1.7 |
| 4/22/2015 0:38:11 | 51.51 | 47.81 | 89 | 2.63 | 0.38 | 4.9 |
| 4/22/2015 0:38:26 | 51.84 | 48.14 | 37 | 1.87 | 0.33 | 2.0 |
| 4/22/2015 0:38:27 | 52.17 | 48.47 | 37 | 1.87 | 0.33 | 2.0 |
| 4/22/2015 0:38:27 | 52.49 | 48.79 | 200 | 1.87 | 0.33 | 11.0 |
| 4/22/2015 0:38:27 | 52.82 | 49.12 | 398 | 2.08 | 0.32 | 21.7 |
| 4/22/2015 0:38:28 | 53.15 | 49.45 | 577 | 2.00 | 0.33 | 31.6 |
| 4/22/2015 0:38:28 | 53.48 | 49.78 | 577 | 2.00 | 0.33 | 31.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:38:28 | 53.81 | 50.11 | 768 | 3.01 | 0.35 | 42.0 |
| 4/22/2015 | 0:38:29 | 54.13 | 50.43 | 776 | 3.83 | 0.39 | 42.5 |
| 4/22/2015 | 0:38:32 | 54.46 | 50.76 | 131 | 2.78 | 0.38 | 7.2 |
| 4/22/2015 | 0:38:34 | 54.79 | 51.09 | 148 | 2.62 | 0.38 | 8.1 |
| 4/22/2015 | 0:38:36 | 55.12 | 51.42 | 205 | 2.64 | 0.38 | 11.2 |
| 4/22/2015 | 0:38:37 | 55.45 | 51.75 | 265 | 2.53 | 0.38 | 14.5 |
| 4/22/2015 | 0:38:39 | 55.77 | 52.07 | 266 | 2.55 | 0.38 | 14.6 |
| 4/22/2015 | 0:38:40 | 56.10 | 52.40 | 208 | 2.59 | 0.38 | 11.4 |
| 4/22/2015 | 0:38:42 | 56.43 | 52.73 | 190 | 2.46 | 0.39 | 10.4 |
| 4/22/2015 | 0:38:44 | 56.76 | 53.06 | 176 | 2.55 | 0.39 | 9.6 |
| 4/22/2015 | 0:38:47 | 57.09 | 53.39 | 182 | 2.50 | 0.38 | 10.0 |
| 4/22/2015 | 0:38:48 | 57.41 | 53.71 | 207 | 2.59 | 0.39 | 11.3 |
| 4/22/2015 | 0:38:50 | 57.74 | 54.04 | 208 | 2.44 | 0.39 | 11.4 |
| 4/22/2015 | 0:38:51 | 58.07 | 54.37 | 215 | 2.46 | 0.38 | 11.7 |
| 4/22/2015 | 0:38:53 | 58.40 | 54.70 | 225 | 2.44 | 0.38 | 12.3 |
| 4/22/2015 | 0:38:54 | 58.62 | 54.92 | 246 | 2.36 | 0.39 | 13.5 |

## E29 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 0:32:06

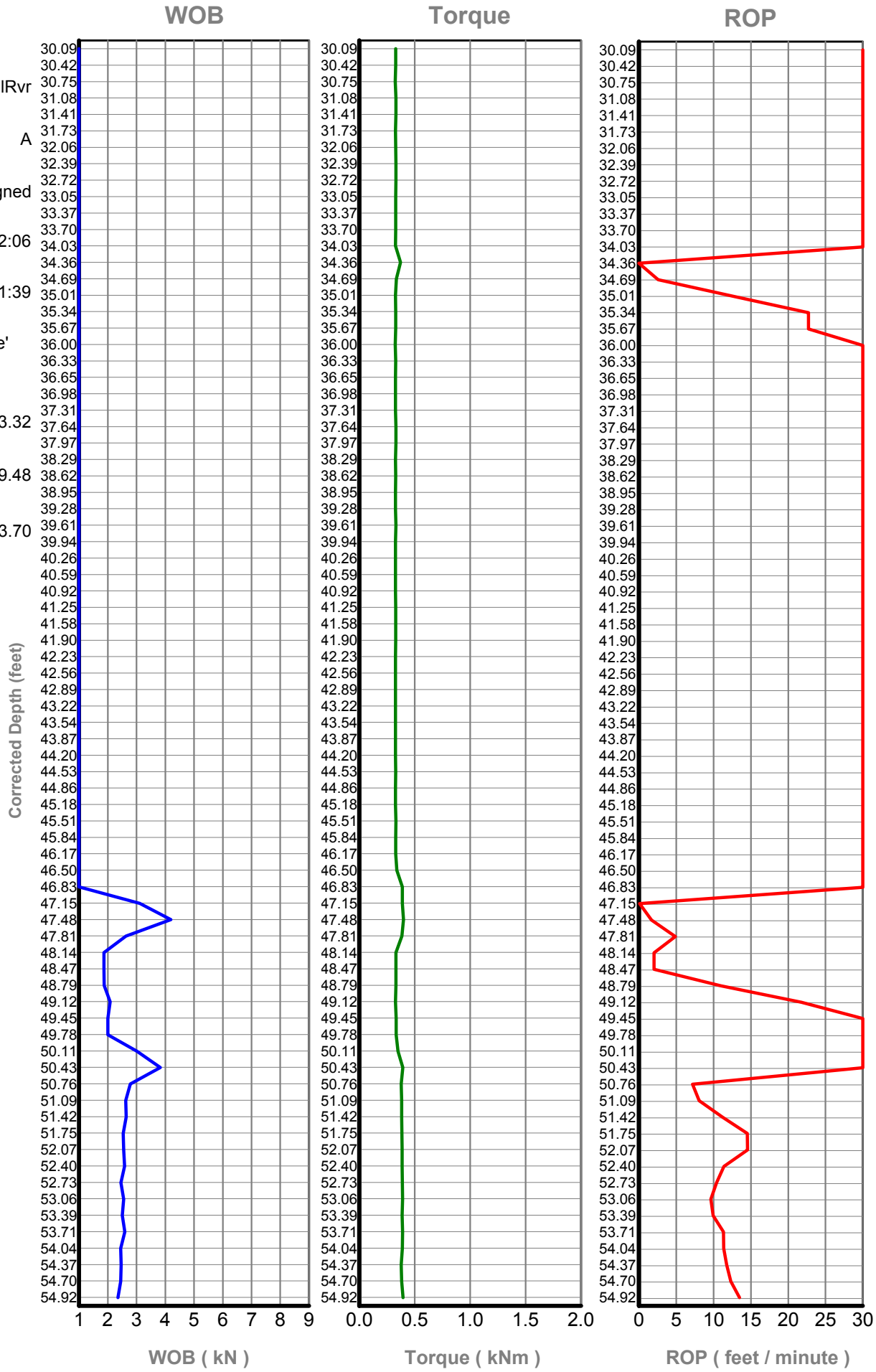
**End Date:**
4/22/2015 0:41:39

**Operator Note:**
'3.7 3.4 b Auto Complete'

**Northing:**
368,443.32

**Easting:**
252,739.48

**Tide (feet):**
3.70



## Hole: E3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 4:00:40 | 37.40 | 30.10 | 369 | 1.45 | 0.13 | 20.2 |
| 4/21/2015 4:00:41 | 37.73 | 30.43 | 369 | 1.47 | 0.13 | 20.2 |
| 4/21/2015 4:00:41 | 38.06 | 30.76 | 367 | 1.46 | 0.13 | 20.1 |
| 4/21/2015 4:00:43 | 38.39 | 31.09 | 364 | 1.47 | 0.13 | 19.9 |
| 4/21/2015 4:00:44 | 38.71 | 31.41 | 360 | 1.50 | 0.13 | 19.7 |
| 4/21/2015 4:01:22 | 39.04 | 31.74 | 0 | 1.54 | 1.01 | 0.0 |
| 4/21/2015 4:01:42 | 39.37 | 32.07 | 89 | 1.60 | 1.16 | 4.9 |
| 4/21/2015 4:01:54 | 39.70 | 32.40 | 37 | 1.61 | 1.09 | 2.0 |
| 4/21/2015 4:02:20 | 40.03 | 32.73 | 0 | 1.55 | 1.04 | 0.0 |
| 4/21/2015 4:02:46 | 40.35 | 33.05 | 0 | 1.51 | 0.77 | 0.0 |
| 4/21/2015 4:02:48 | 40.68 | 33.38 | 142 | 1.53 | 0.97 | 7.7 |
| 4/21/2015 4:03:15 | 41.01 | 33.71 | 9 | 1.52 | 0.96 | 0.5 |
| 4/21/2015 4:03:30 | 41.34 | 34.04 | 17 | 1.49 | 0.86 | 0.9 |
| 4/21/2015 4:03:41 | 41.67 | 34.37 | 0 | 1.55 | 0.90 | 0.0 |
| 4/21/2015 4:03:51 | 41.99 | 34.69 | 29 | 1.55 | 1.04 | 1.6 |
| 4/21/2015 4:03:53 | 42.32 | 35.02 | 148 | 1.62 | 1.21 | 8.1 |
| 4/21/2015 4:03:55 | 42.65 | 35.35 | 162 | 1.54 | 0.86 | 8.9 |
| 4/21/2015 4:04:15 | 42.98 | 35.68 | 70 | 1.57 | 1.23 | 3.8 |
| 4/21/2015 4:04:18 | 43.31 | 36.01 | 164 | 1.59 | 1.02 | 9.0 |
| 4/21/2015 4:04:35 | 43.64 | 36.34 | 0 | 1.51 | 0.91 | 0.0 |
| 4/21/2015 4:04:40 | 43.96 | 36.66 | 122 | 1.47 | 0.78 | 6.7 |
| 4/21/2015 4:04:42 | 44.29 | 36.99 | 240 | 1.44 | 0.76 | 13.1 |
| 4/21/2015 4:04:43 | 44.62 | 37.32 | 304 | 1.45 | 0.76 | 16.6 |
| 4/21/2015 4:04:44 | 44.95 | 37.65 | 307 | 1.53 | 1.27 | 16.8 |
| 4/21/2015 4:04:56 | 45.28 | 37.98 | 24 | 1.43 | 1.07 | 1.3 |
| 4/21/2015 4:04:58 | 45.60 | 38.30 | 115 | 1.55 | 1.12 | 6.3 |
| 4/21/2015 4:05:14 | 45.93 | 38.63 | 58 | 1.60 | 1.24 | 3.2 |
| 4/21/2015 4:05:33 | 46.26 | 38.96 | 0 | 1.54 | 0.95 | 0.0 |
| 4/21/2015 4:05:36 | 46.59 | 39.29 | 127 | 1.59 | 1.05 | 6.9 |
| 4/21/2015 4:05:38 | 46.92 | 39.62 | 165 | 1.62 | 1.51 | 9.0 |
| 4/21/2015 4:06:06 | 47.24 | 39.94 | 0 | 1.57 | 0.92 | 0.0 |
| 4/21/2015 4:06:12 | 47.57 | 40.27 | 103 | 1.62 | 1.02 | 5.6 |
| 4/21/2015 4:06:14 | 47.90 | 40.60 | 185 | 1.65 | 1.02 | 10.1 |
| 4/21/2015 4:06:16 | 48.23 | 40.93 | 191 | 1.62 | 1.23 | 10.4 |
| 4/21/2015 4:06:31 | 48.56 | 41.26 | 44 | 1.62 | 1.17 | 2.4 |
| 4/21/2015 4:06:33 | 48.88 | 41.58 | 176 | 1.64 | 1.48 | 9.6 |
| 4/21/2015 4:06:35 | 49.21 | 41.91 | 173 | 1.67 | 1.39 | 9.5 |
| 4/21/2015 4:06:52 | 49.54 | 42.24 | 15 | 1.65 | 1.10 | 0.8 |
| 4/21/2015 4:06:54 | 49.87 | 42.57 | 150 | 1.63 | 1.17 | 8.2 |
| 4/21/2015 4:06:57 | 50.20 | 42.90 | 139 | 1.64 | 1.08 | 7.6 |
| 4/21/2015 4:07:17 | 50.53 | 43.23 | 83 | 1.63 | 1.23 | 4.5 |
| 4/21/2015 4:07:20 | 50.85 | 43.55 | 148 | 1.60 | 1.27 | 8.1 |
| 4/21/2015 4:07:22 | 51.18 | 43.88 | 165 | 1.62 | 1.12 | 9.0 |
| 4/21/2015 4:09:45 | 51.51 | 44.21 | 59 | 1.62 | 1.19 | 3.2 |
| 4/21/2015 4:09:47 | 51.84 | 44.54 | 127 | 1.64 | 1.13 | 6.9 |
| 4/21/2015 4:10:47 | 52.17 | 44.87 | 96 | 1.65 | 1.16 | 5.2 |
| 4/21/2015 4:10:50 | 52.49 | 45.19 | 124 | 1.64 | 1.21 | 6.8 |
| 4/21/2015 4:10:52 | 52.82 | 45.52 | 143 | 1.57 | 1.24 | 7.8 |
| 4/21/2015 4:10:53 | 53.15 | 45.85 | 185 | 1.60 | 0.92 | 10.1 |
| 4/21/2015 4:10:56 | 53.48 | 46.18 | 208 | 1.57 | 0.92 | 11.4 |
| 4/21/2015 4:12:00 | 53.81 | 46.51 | 72 | 1.58 | 0.90 | 4.0 |
| 4/21/2015 4:12:02 | 54.13 | 46.83 | 198 | 1.62 | 0.92 | 10.8 |
| 4/21/2015 4:12:04 | 54.46 | 47.16 | 191 | 1.61 | 0.93 | 10.4 |
| 4/21/2015 4:12:18 | 54.79 | 47.49 | 0 | 1.56 | 0.94 | 0.0 |
| 4/21/2015 4:12:21 | 55.12 | 47.82 | 95 | 1.64 | 0.94 | 5.2 |
| 4/21/2015 4:12:23 | 55.45 | 48.15 | 151 | 1.62 | 0.93 | 8.2 |
| 4/21/2015 4:12:25 | 55.77 | 48.47 | 147 | 1.62 | 0.98 | 8.0 |
| 4/21/2015 4:12:53 | 56.10 | 48.80 | 62 | 1.82 | 1.08 | 3.4 |
| 4/21/2015 4:12:56 | 56.43 | 49.13 | 124 | 1.62 | 0.94 | 6.8 |
| 4/21/2015 4:12:58 | 56.76 | 49.46 | 164 | 1.61 | 0.90 | 9.0 |
| 4/21/2015 4:13:00 | 57.09 | 49.79 | 149 | 1.64 | 1.01 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 4:13:04 | 57.41 | 50.11 | 116 | 1.63 | 1.05 | 6.4 |
| 4/21/2015 | 4:13:07 | 57.74 | 50.44 | 115 | 1.64 | 1.12 | 6.3 |
| 4/21/2015 | 4:13:11 | 58.07 | 50.77 | 75 | 1.66 | 1.16 | 4.1 |
| 4/21/2015 | 4:13:16 | 58.40 | 51.10 | 80 | 1.66 | 1.13 | 4.4 |
| 4/21/2015 | 4:13:21 | 58.73 | 51.43 | 55 | 1.68 | 1.18 | 3.0 |
| 4/21/2015 | 4:13:28 | 59.06 | 51.76 | 53 | 1.66 | 1.23 | 2.9 |
| 4/21/2015 | 4:13:35 | 59.38 | 52.08 | 48 | 1.66 | 1.27 | 2.6 |
| 4/21/2015 | 4:14:46 | 59.67 | 52.37 | 6 | 1.62 | 1.33 | 0.3 |

## E3 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 3:58:13

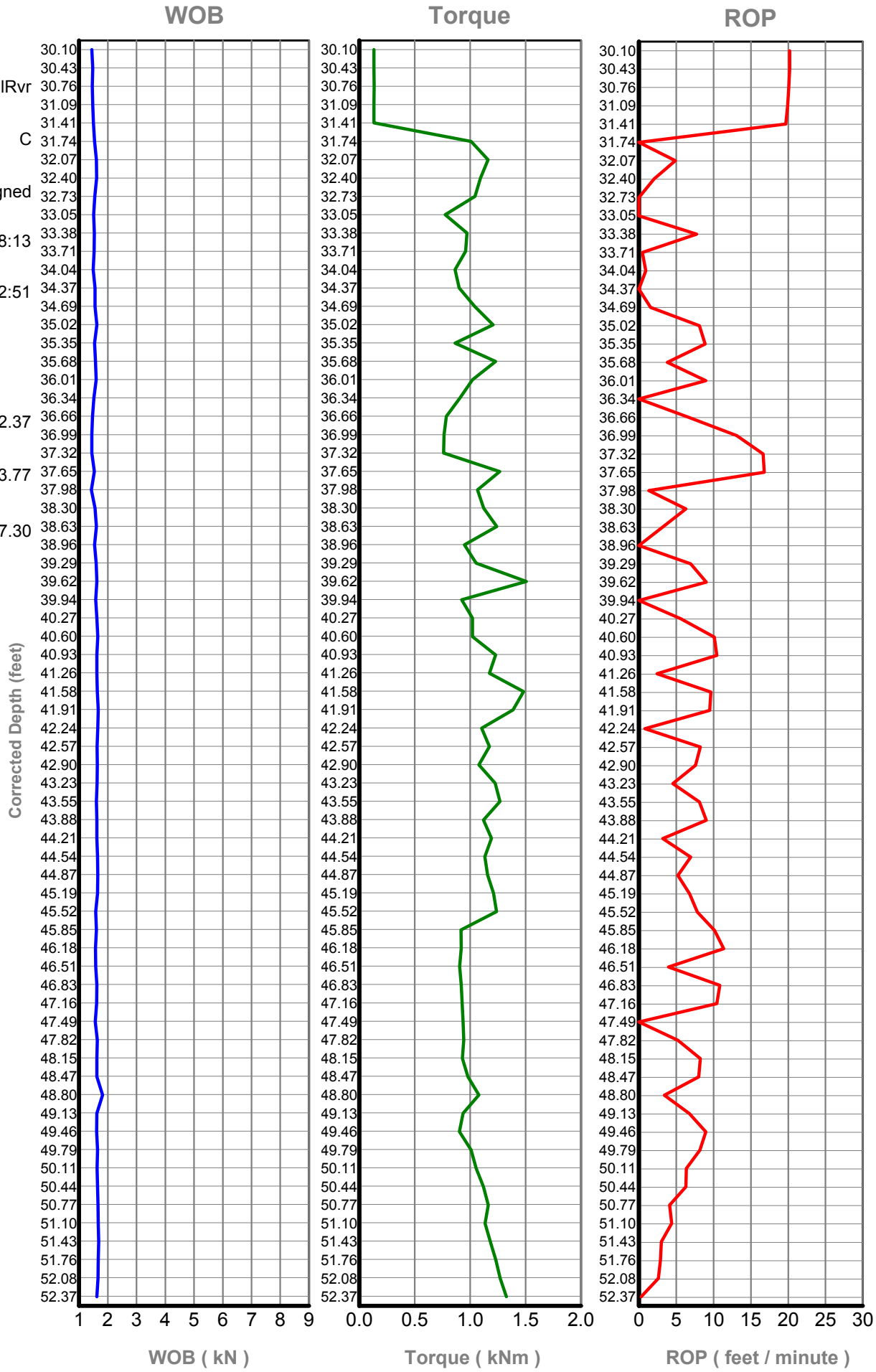
**End Date:**
4/21/2015 4:42:51

**Operator Note:**
'7.3 '7.5 7.41 c Auto Complete'

**Northing:**
368,842.37

**Easting:**
252,993.77

**Tide (feet):**
7.30



## Hole: E30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:27:16 | 33.79 | 30.29 | 1,451 | 3.22 | 0.16 | 79.3 |
| 4/22/2015 0:27:17 | 34.12 | 30.62 | 1,450 | 3.24 | 0.16 | 79.3 |
| 4/22/2015 0:27:17 | 34.45 | 30.95 | 1,450 | 3.24 | 0.16 | 79.3 |
| 4/22/2015 0:27:17 | 34.78 | 31.28 | 1,439 | 3.21 | 0.16 | 78.7 |
| 4/22/2015 0:27:18 | 35.11 | 31.61 | 1,439 | 3.21 | 0.16 | 78.7 |
| 4/22/2015 0:27:18 | 35.43 | 31.93 | 1,435 | 3.25 | 0.16 | 78.5 |
| 4/22/2015 0:27:18 | 35.76 | 32.26 | 1,435 | 3.25 | 0.16 | 78.5 |
| 4/22/2015 0:27:18 | 36.09 | 32.59 | 1,439 | 3.22 | 0.16 | 78.7 |
| 4/22/2015 0:27:19 | 36.42 | 32.92 | 1,439 | 3.22 | 0.16 | 78.7 |
| 4/22/2015 0:27:19 | 36.75 | 33.25 | 1,427 | 3.22 | 0.15 | 78.0 |
| 4/22/2015 0:27:19 | 37.07 | 33.57 | 1,427 | 3.22 | 0.15 | 78.0 |
| 4/22/2015 0:27:19 | 37.40 | 33.90 | 1,421 | 3.23 | 0.16 | 77.7 |
| 4/22/2015 0:27:20 | 37.73 | 34.23 | 1,421 | 3.23 | 0.16 | 77.7 |
| 4/22/2015 0:27:20 | 38.06 | 34.56 | 1,413 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 0:27:20 | 38.39 | 34.89 | 1,413 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 0:27:20 | 38.71 | 35.21 | 1,413 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 0:27:20 | 39.04 | 35.54 | 1,413 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 0:27:21 | 39.37 | 35.87 | 1,413 | 3.22 | 0.15 | 77.2 |
| 4/22/2015 0:27:21 | 39.70 | 36.20 | 1,416 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 0:27:21 | 40.03 | 36.53 | 1,416 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 0:27:21 | 40.35 | 36.85 | 1,413 | 3.24 | 0.17 | 77.2 |
| 4/22/2015 0:27:22 | 40.68 | 37.18 | 1,413 | 3.24 | 0.17 | 77.2 |
| 4/22/2015 0:27:22 | 41.01 | 37.51 | 1,377 | 3.24 | 0.15 | 75.3 |
| 4/22/2015 0:27:22 | 41.34 | 37.84 | 1,377 | 3.24 | 0.15 | 75.3 |
| 4/22/2015 0:27:23 | 41.67 | 38.17 | 1,377 | 3.24 | 0.15 | 75.3 |
| 4/22/2015 0:27:23 | 41.99 | 38.49 | 1,377 | 3.24 | 0.15 | 75.3 |
| 4/22/2015 0:27:23 | 42.32 | 38.82 | 1,377 | 3.22 | 0.15 | 75.3 |
| 4/22/2015 0:27:23 | 42.65 | 39.15 | 1,377 | 3.22 | 0.15 | 75.3 |
| 4/22/2015 0:27:24 | 42.98 | 39.48 | 1,424 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 0:27:24 | 43.31 | 39.81 | 1,424 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 0:27:24 | 43.64 | 40.14 | 1,420 | 3.24 | 0.15 | 77.7 |
| 4/22/2015 0:27:24 | 43.96 | 40.46 | 1,420 | 3.24 | 0.15 | 77.7 |
| 4/22/2015 0:27:25 | 44.29 | 40.79 | 1,417 | 3.23 | 0.16 | 77.5 |
| 4/22/2015 0:27:25 | 44.62 | 41.12 | 1,417 | 3.23 | 0.16 | 77.5 |
| 4/22/2015 0:27:25 | 44.95 | 41.45 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/22/2015 0:27:25 | 45.28 | 41.78 | 1,445 | 3.24 | 0.15 | 79.0 |
| 4/22/2015 0:27:26 | 45.60 | 42.10 | 1,445 | 3.26 | 0.15 | 79.0 |
| 4/22/2015 0:27:26 | 45.93 | 42.43 | 1,445 | 3.26 | 0.15 | 79.0 |
| 4/22/2015 0:27:26 | 46.26 | 42.76 | 1,433 | 3.22 | 0.15 | 78.4 |
| 4/22/2015 0:27:27 | 46.59 | 43.09 | 1,433 | 3.22 | 0.15 | 78.4 |
| 4/22/2015 0:27:27 | 46.92 | 43.42 | 1,390 | 3.23 | 0.15 | 76.0 |
| 4/22/2015 0:27:27 | 47.24 | 43.74 | 1,390 | 3.23 | 0.15 | 76.0 |
| 4/22/2015 0:27:27 | 47.57 | 44.07 | 1,390 | 3.23 | 0.15 | 76.0 |
| 4/22/2015 0:27:27 | 47.90 | 44.40 | 1,390 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 0:27:27 | 48.23 | 44.73 | 1,390 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 0:27:28 | 48.56 | 45.06 | 1,405 | 3.24 | 0.15 | 76.8 |
| 4/22/2015 0:27:28 | 48.88 | 45.38 | 1,405 | 3.24 | 0.15 | 76.8 |
| 4/22/2015 0:27:28 | 49.21 | 45.71 | 1,372 | 3.22 | 0.15 | 75.0 |
| 4/22/2015 0:27:29 | 49.54 | 46.04 | 1,372 | 3.22 | 0.15 | 75.0 |
| 4/22/2015 0:27:29 | 49.87 | 46.37 | 1,389 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 0:27:29 | 50.20 | 46.70 | 1,389 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 0:27:49 | 50.53 | 47.03 | 0 | 3.27 | 1.22 | 0.0 |
| 4/22/2015 0:27:50 | 50.85 | 47.35 | 130 | 1.91 | 1.29 | 7.1 |
| 4/22/2015 0:27:55 | 51.18 | 47.68 | 37 | 1.95 | 1.14 | 2.0 |
| 4/22/2015 0:27:59 | 51.51 | 48.01 | 85 | 1.84 | 1.13 | 4.6 |
| 4/22/2015 0:28:00 | 51.84 | 48.34 | 131 | 1.91 | 1.07 | 7.1 |
| 4/22/2015 0:28:04 | 52.17 | 48.67 | 88 | 1.89 | 1.12 | 4.8 |
| 4/22/2015 0:28:06 | 52.49 | 48.99 | 165 | 1.88 | 1.11 | 9.0 |
| 4/22/2015 0:28:07 | 52.82 | 49.32 | 219 | 1.82 | 1.02 | 12.0 |
| 4/22/2015 0:28:13 | 53.15 | 49.65 | 0 | 3.28 | 0.95 | 0.0 |
| 4/22/2015 0:28:15 | 53.48 | 49.98 | 73 | 1.87 | 1.00 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:28:16 | 53.81 | 50.31 | 229 | 1.95 | 1.06 | 12.5 |
| 4/22/2015 | 0:28:34 | 54.13 | 50.63 | 0 | 3.27 | 1.03 | 0.0 |
| 4/22/2015 | 0:28:35 | 54.46 | 50.96 | 126 | 1.85 | 1.00 | 6.9 |
| 4/22/2015 | 0:28:37 | 54.79 | 51.29 | 240 | 1.79 | 0.97 | 13.1 |
| 4/22/2015 | 0:28:52 | 55.12 | 51.62 | 40 | 1.91 | 0.95 | 2.2 |
| 4/22/2015 | 0:28:53 | 55.45 | 51.95 | 129 | 1.76 | 1.04 | 7.1 |
| 4/22/2015 | 0:28:57 | 55.77 | 52.27 | 46 | 2.99 | 1.01 | 2.5 |
| 4/22/2015 | 0:28:58 | 56.10 | 52.60 | 202 | 1.93 | 1.03 | 11.0 |
| 4/22/2015 | 0:29:09 | 56.43 | 52.93 | 0 | 1.42 | 0.96 | 0.0 |
| 4/22/2015 | 0:29:10 | 56.76 | 53.26 | 124 | 1.87 | 1.01 | 6.8 |
| 4/22/2015 | 0:29:11 | 57.09 | 53.59 | 249 | 1.73 | 1.05 | 13.6 |
| 4/22/2015 | 0:29:16 | 57.41 | 53.91 | 0 | 3.31 | 0.98 | 0.0 |
| 4/22/2015 | 0:29:16 | 57.74 | 54.24 | 144 | 1.83 | 1.09 | 7.9 |
| 4/22/2015 | 0:29:18 | 58.07 | 54.57 | 318 | 1.83 | 1.09 | 17.4 |
| 4/22/2015 | 0:29:42 | 58.40 | 54.90 | 0 | 3.33 | 1.03 | 0.0 |
| 4/22/2015 | 0:29:42 | 58.73 | 55.23 | 183 | 3.29 | 1.04 | 10.0 |
| 4/22/2015 | 0:29:43 | 59.06 | 55.56 | 183 | 3.29 | 1.04 | 10.0 |
| 4/22/2015 | 0:29:43 | 59.38 | 55.88 | 403 | 3.35 | 1.10 | 22.0 |
| 4/22/2015 | 0:29:43 | 59.50 | 56.00 | 403 | 3.35 | 1.10 | 22.0 |

## E30 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 0:26:01

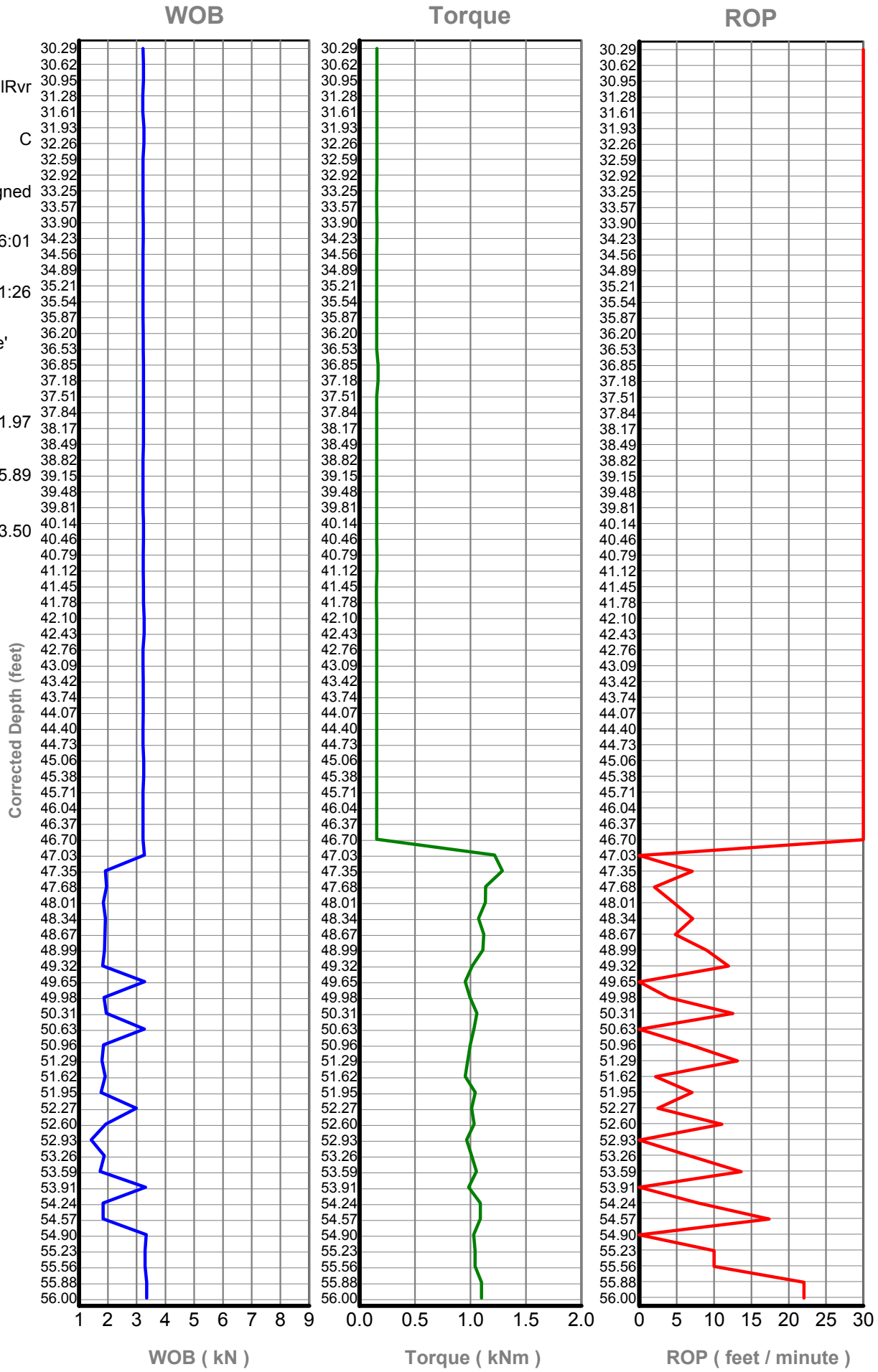
**End Date:**
4/22/2015 0:31:26

**Operator Note:**
'3.5 3.0 c Auto Complete'

**Northing:**
368,491.97

**Easting:**
252,795.89

**Tide (feet):**
3.50



## Hole: E31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:05:27 | 33.14 | 30.24 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:27 | 33.46 | 30.56 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:28 | 33.79 | 30.89 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:28 | 34.12 | 31.22 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:28 | 34.45 | 31.55 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:29 | 34.78 | 31.88 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:29 | 35.11 | 32.21 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:29 | 35.43 | 32.53 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:30 | 35.76 | 32.86 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:30 | 36.09 | 33.19 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:31 | 36.42 | 33.52 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:31 | 36.75 | 33.85 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:05:31 | 37.07 | 34.17 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:32 | 37.40 | 34.50 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:32 | 37.73 | 34.83 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:32 | 38.06 | 35.16 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 8:05:33 | 38.39 | 35.49 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 8:05:33 | 38.71 | 35.81 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:33 | 39.04 | 36.14 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:34 | 39.37 | 36.47 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:34 | 39.70 | 36.80 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:05:34 | 40.03 | 37.13 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:05:35 | 40.35 | 37.45 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:05:35 | 40.68 | 37.78 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 8:05:35 | 41.01 | 38.11 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:36 | 41.34 | 38.44 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:05:37 | 41.67 | 38.77 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:05:37 | 41.99 | 39.09 | 1,004 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:05:37 | 42.32 | 39.42 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:38 | 42.65 | 39.75 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:38 | 42.98 | 40.08 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:05:38 | 43.31 | 40.41 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 8:05:39 | 43.64 | 40.74 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 8:05:39 | 43.96 | 41.06 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 8:05:39 | 44.29 | 41.39 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:05:40 | 44.62 | 41.72 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:05:40 | 44.95 | 42.05 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:40 | 45.28 | 42.38 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:41 | 45.60 | 42.70 | 1,001 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 8:05:41 | 45.93 | 43.03 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:05:41 | 46.26 | 43.36 | 982 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 8:05:42 | 46.59 | 43.69 | 982 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 8:05:42 | 46.92 | 44.02 | 982 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 8:05:42 | 47.24 | 44.34 | 990 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 8:05:43 | 47.57 | 44.67 | 984 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 8:05:43 | 47.90 | 45.00 | 984 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 8:05:43 | 48.23 | 45.33 | 987 | 1.73 | 0.21 | 54.0 |
| 4/21/2015 8:05:44 | 48.56 | 45.66 | 981 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 8:05:44 | 48.88 | 45.98 | 981 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 8:05:44 | 49.21 | 46.31 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 8:06:21 | 49.54 | 46.64 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 8:06:24 | 49.87 | 46.97 | 171 | 1.73 | 0.21 | 9.3 |
| 4/21/2015 8:06:28 | 50.20 | 47.30 | 56 | 1.73 | 0.21 | 3.1 |
| 4/21/2015 8:06:29 | 50.53 | 47.63 | 127 | 1.73 | 0.21 | 6.9 |
| 4/21/2015 8:06:30 | 50.85 | 47.95 | 295 | 1.73 | 0.21 | 16.1 |
| 4/21/2015 8:06:30 | 51.18 | 48.28 | 398 | 1.73 | 0.21 | 21.7 |
| 4/21/2015 8:06:47 | 51.51 | 48.61 | 71 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 8:06:48 | 51.84 | 48.94 | 192 | 1.73 | 0.21 | 10.5 |
| 4/21/2015 8:06:49 | 52.17 | 49.27 | 305 | 1.73 | 0.21 | 16.7 |
| 4/21/2015 8:06:50 | 52.49 | 49.59 | 360 | 1.73 | 0.21 | 19.7 |
| 4/21/2015 8:06:56 | 52.82 | 49.92 | 12 | 1.73 | 0.21 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:06:57 | 53.15 | 50.25 | 191 | 1.73 | 0.21 | 10.4 |
| 4/21/2015 | 8:07:01 | 53.48 | 50.58 | 129 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 8:07:01 | 53.81 | 50.91 | 179 | 1.73 | 0.21 | 9.8 |
| 4/21/2015 | 8:07:02 | 54.13 | 51.23 | 254 | 1.73 | 0.21 | 13.9 |
| 4/21/2015 | 8:07:02 | 54.46 | 51.56 | 354 | 1.73 | 0.21 | 19.3 |
| 4/21/2015 | 8:07:04 | 54.79 | 51.89 | 447 | 1.73 | 0.21 | 24.5 |
| 4/21/2015 | 8:07:10 | 55.12 | 52.22 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 8:07:16 | 55.45 | 52.55 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 8:07:23 | 55.77 | 52.87 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 8:07:28 | 56.10 | 53.20 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 8:07:34 | 56.43 | 53.53 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 8:07:40 | 56.76 | 53.86 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 8:07:44 | 57.03 | 54.13 | 70 | 1.73 | 0.21 | 3.8 |

## E31 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:03:53

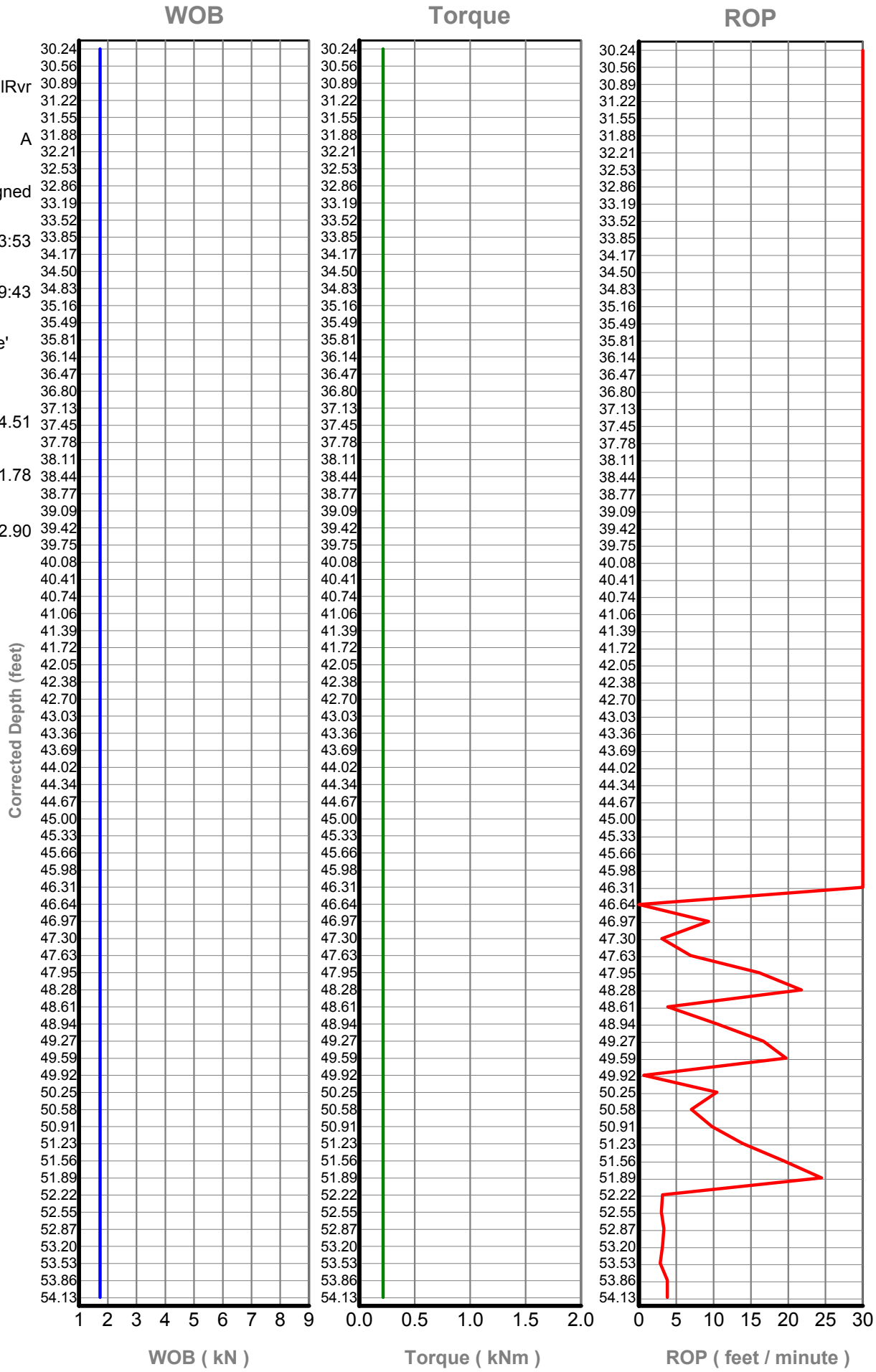
**End Date:**
4/21/2015 8:09:43

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
368,544.51

**Easting:**
252,861.78

**Tide (feet):**
2.90



## Hole: E32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:11:41 | 32.81 | 30.01 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:11:42 | 33.14 | 30.34 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:11:42 | 33.46 | 30.66 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:11:42 | 33.79 | 30.99 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 8:11:43 | 34.12 | 31.32 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 8:11:43 | 34.45 | 31.65 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 8:11:43 | 34.78 | 31.98 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:11:44 | 35.11 | 32.31 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:44 | 35.43 | 32.63 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:44 | 35.76 | 32.96 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:45 | 36.09 | 33.29 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:45 | 36.42 | 33.62 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:45 | 36.75 | 33.95 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:46 | 37.07 | 34.27 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:46 | 37.40 | 34.60 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:47 | 37.73 | 34.93 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:47 | 38.06 | 35.26 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:11:47 | 38.39 | 35.59 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:48 | 38.71 | 35.91 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:48 | 39.04 | 36.24 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:48 | 39.37 | 36.57 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:49 | 39.70 | 36.90 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:49 | 40.03 | 37.23 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:11:50 | 40.35 | 37.55 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:50 | 40.68 | 37.88 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:11:50 | 41.01 | 38.21 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:11:51 | 41.34 | 38.54 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:11:51 | 41.67 | 38.87 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:11:51 | 41.99 | 39.19 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:52 | 42.32 | 39.52 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:52 | 42.65 | 39.85 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:52 | 42.98 | 40.18 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:11:53 | 43.31 | 40.51 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:11:53 | 43.64 | 40.84 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:11:53 | 43.96 | 41.16 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:54 | 44.29 | 41.49 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:54 | 44.62 | 41.82 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:54 | 44.95 | 42.15 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:11:55 | 45.28 | 42.48 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:11:55 | 45.60 | 42.80 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:11:55 | 45.93 | 43.13 | 1,007 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:11:56 | 46.26 | 43.46 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:11:56 | 46.59 | 43.79 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:11:56 | 46.92 | 44.12 | 1,018 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:11:57 | 47.24 | 44.44 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:11:57 | 47.57 | 44.77 | 1,014 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:11:57 | 47.90 | 45.10 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 8:11:58 | 48.23 | 45.43 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:58 | 48.56 | 45.76 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:11:58 | 48.88 | 46.08 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:12:08 | 49.21 | 46.41 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 8:12:08 | 49.54 | 46.74 | 159 | 1.73 | 0.21 | 8.7 |
| 4/21/2015 8:12:09 | 49.87 | 47.07 | 313 | 1.73 | 0.21 | 17.1 |
| 4/21/2015 8:12:09 | 50.20 | 47.40 | 478 | 1.73 | 0.21 | 26.1 |
| 4/21/2015 8:12:10 | 50.53 | 47.73 | 641 | 1.73 | 0.21 | 35.0 |
| 4/21/2015 8:12:10 | 50.85 | 48.05 | 641 | 1.73 | 0.21 | 35.0 |
| 4/21/2015 8:12:10 | 51.18 | 48.38 | 806 | 1.73 | 0.21 | 44.1 |
| 4/21/2015 8:12:11 | 51.51 | 48.71 | 798 | 1.73 | 0.21 | 43.6 |
| 4/21/2015 8:12:11 | 51.84 | 49.04 | 806 | 1.73 | 0.21 | 44.1 |
| 4/21/2015 8:12:13 | 52.17 | 49.37 | 686 | 1.73 | 0.21 | 37.5 |
| 4/21/2015 8:12:15 | 52.49 | 49.69 | 197 | 1.73 | 0.21 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:12:21 | 52.82 | 50.02 | 36 | 1.73 | 0.21 | 2.0 |
| 4/21/2015 | 8:12:43 | 53.15 | 50.35 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 8:12:44 | 53.48 | 50.68 | 131 | 1.73 | 0.21 | 7.2 |
| 4/21/2015 | 8:12:45 | 53.81 | 51.01 | 278 | 1.73 | 0.21 | 15.2 |
| 4/21/2015 | 8:12:46 | 54.13 | 51.33 | 377 | 1.73 | 0.21 | 20.6 |
| 4/21/2015 | 8:12:47 | 54.46 | 51.66 | 371 | 1.73 | 0.21 | 20.3 |
| 4/21/2015 | 8:12:48 | 54.79 | 51.99 | 371 | 1.73 | 0.21 | 20.3 |
| 4/21/2015 | 8:12:49 | 55.12 | 52.32 | 374 | 1.73 | 0.21 | 20.5 |
| 4/21/2015 | 8:12:50 | 55.45 | 52.65 | 389 | 1.73 | 0.21 | 21.3 |
| 4/21/2015 | 8:12:50 | 55.77 | 52.97 | 398 | 1.73 | 0.21 | 21.8 |
| 4/21/2015 | 8:12:51 | 56.10 | 53.30 | 421 | 1.73 | 0.21 | 23.0 |
| 4/21/2015 | 8:12:52 | 56.43 | 53.63 | 435 | 1.73 | 0.21 | 23.8 |
| 4/21/2015 | 8:12:54 | 56.76 | 53.96 | 287 | 1.73 | 0.21 | 15.7 |
| 4/21/2015 | 8:12:56 | 57.09 | 54.29 | 179 | 1.73 | 0.21 | 9.8 |
| 4/21/2015 | 8:12:59 | 57.41 | 54.61 | 150 | 1.73 | 0.21 | 8.2 |
| 4/21/2015 | 8:13:01 | 57.74 | 54.94 | 152 | 1.73 | 0.21 | 8.3 |
| 4/21/2015 | 8:13:03 | 58.07 | 55.27 | 177 | 1.73 | 0.21 | 9.7 |
| 4/21/2015 | 8:13:03 | 58.20 | 55.40 | 185 | 1.73 | 0.21 | 10.1 |

## E32 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:10:19

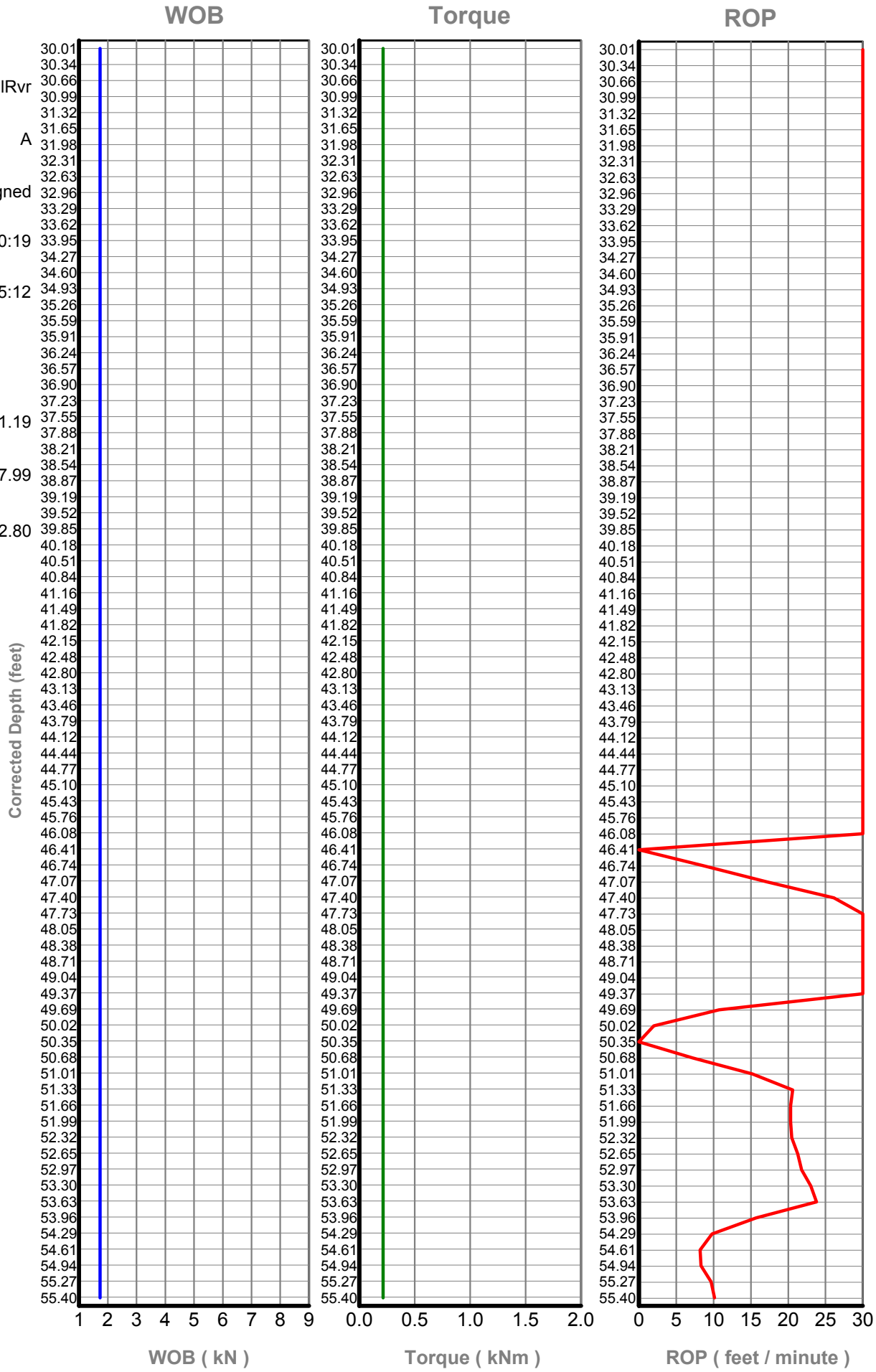
**End Date:**
4/21/2015 8:15:12

**Operator Note:**
'2.8 3.1 b Tide changed to 2.9'

**Northing:**
368,581.19

**Easting:**
252,907.99

**Tide (feet):**
2.80



## Hole: E33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:11:35 | 33.14 | 30.24 | 301 | 1.49 | 0.29 | 16.4 |
| 4/21/2015 8:11:36 | 33.46 | 30.56 | 301 | 1.49 | 0.29 | 16.4 |
| 4/21/2015 8:11:37 | 33.79 | 30.89 | 302 | 1.48 | 0.29 | 16.5 |
| 4/21/2015 8:11:38 | 34.12 | 31.22 | 302 | 1.49 | 0.29 | 16.5 |
| 4/21/2015 8:11:40 | 34.45 | 31.55 | 302 | 1.45 | 0.29 | 16.5 |
| 4/21/2015 8:11:41 | 34.78 | 31.88 | 300 | 1.49 | 0.29 | 16.4 |
| 4/21/2015 8:11:42 | 35.11 | 32.21 | 301 | 1.48 | 0.29 | 16.5 |
| 4/21/2015 8:11:43 | 35.43 | 32.53 | 296 | 1.47 | 0.29 | 16.2 |
| 4/21/2015 8:11:45 | 35.76 | 32.86 | 298 | 1.47 | 0.29 | 16.3 |
| 4/21/2015 8:11:46 | 36.09 | 33.19 | 297 | 1.48 | 0.29 | 16.3 |
| 4/21/2015 8:11:47 | 36.42 | 33.52 | 299 | 1.51 | 0.29 | 16.3 |
| 4/21/2015 8:11:48 | 36.75 | 33.85 | 299 | 1.47 | 0.29 | 16.3 |
| 4/21/2015 8:11:49 | 37.07 | 34.17 | 300 | 1.46 | 0.29 | 16.4 |
| 4/21/2015 8:11:50 | 37.40 | 34.50 | 305 | 1.45 | 0.29 | 16.7 |
| 4/21/2015 8:11:52 | 37.73 | 34.83 | 298 | 1.45 | 0.29 | 16.3 |
| 4/21/2015 8:11:53 | 38.06 | 35.16 | 298 | 1.48 | 0.29 | 16.3 |
| 4/21/2015 8:11:54 | 38.39 | 35.49 | 303 | 1.47 | 0.29 | 16.6 |
| 4/21/2015 8:11:55 | 38.71 | 35.81 | 298 | 1.51 | 0.29 | 16.3 |
| 4/21/2015 8:11:57 | 39.04 | 36.14 | 298 | 1.41 | 0.29 | 16.3 |
| 4/21/2015 8:11:58 | 39.37 | 36.47 | 303 | 1.44 | 0.29 | 16.6 |
| 4/21/2015 8:11:59 | 39.70 | 36.80 | 296 | 1.47 | 0.29 | 16.2 |
| 4/21/2015 8:12:00 | 40.03 | 37.13 | 295 | 1.47 | 0.29 | 16.1 |
| 4/21/2015 8:12:01 | 40.35 | 37.45 | 291 | 1.47 | 0.29 | 15.9 |
| 4/21/2015 8:12:03 | 40.68 | 37.78 | 296 | 1.49 | 0.29 | 16.2 |
| 4/21/2015 8:12:04 | 41.01 | 38.11 | 298 | 1.45 | 0.29 | 16.3 |
| 4/21/2015 8:12:05 | 41.34 | 38.44 | 297 | 1.49 | 0.29 | 16.2 |
| 4/21/2015 8:12:06 | 41.67 | 38.77 | 302 | 1.47 | 0.29 | 16.5 |
| 4/21/2015 8:12:07 | 41.99 | 39.09 | 305 | 1.46 | 0.29 | 16.7 |
| 4/21/2015 8:12:08 | 42.32 | 39.42 | 299 | 1.46 | 0.29 | 16.4 |
| 4/21/2015 8:12:10 | 42.65 | 39.75 | 299 | 1.47 | 0.29 | 16.3 |
| 4/21/2015 8:12:11 | 42.98 | 40.08 | 300 | 1.44 | 0.29 | 16.4 |
| 4/21/2015 8:12:12 | 43.31 | 40.41 | 296 | 1.49 | 0.29 | 16.2 |
| 4/21/2015 8:12:14 | 43.64 | 40.74 | 296 | 1.51 | 0.29 | 16.2 |
| 4/21/2015 8:12:15 | 43.96 | 41.06 | 298 | 1.46 | 0.29 | 16.3 |
| 4/21/2015 8:12:16 | 44.29 | 41.39 | 301 | 1.46 | 0.29 | 16.5 |
| 4/21/2015 8:12:17 | 44.62 | 41.72 | 298 | 1.45 | 0.29 | 16.3 |
| 4/21/2015 8:12:18 | 44.95 | 42.05 | 295 | 1.47 | 0.29 | 16.1 |
| 4/21/2015 8:12:19 | 45.28 | 42.38 | 298 | 1.49 | 0.29 | 16.3 |
| 4/21/2015 8:12:20 | 45.60 | 42.70 | 298 | 1.46 | 0.29 | 16.3 |
| 4/21/2015 8:12:22 | 45.93 | 43.03 | 298 | 1.48 | 0.29 | 16.3 |
| 4/21/2015 8:12:23 | 46.26 | 43.36 | 298 | 1.47 | 0.29 | 16.3 |
| 4/21/2015 8:12:24 | 46.59 | 43.69 | 296 | 1.45 | 0.29 | 16.2 |
| 4/21/2015 8:12:26 | 46.92 | 44.02 | 294 | 1.35 | 0.29 | 16.1 |
| 4/21/2015 8:12:27 | 47.24 | 44.34 | 292 | 1.49 | 0.29 | 16.0 |
| 4/21/2015 8:12:28 | 47.57 | 44.67 | 296 | 1.44 | 0.29 | 16.2 |
| 4/21/2015 8:12:29 | 47.90 | 45.00 | 300 | 1.45 | 0.29 | 16.4 |
| 4/21/2015 8:12:30 | 48.23 | 45.33 | 300 | 1.47 | 0.29 | 16.4 |
| 4/21/2015 8:12:31 | 48.56 | 45.66 | 295 | 1.50 | 0.29 | 16.1 |
| 4/21/2015 8:12:33 | 48.88 | 45.98 | 295 | 1.45 | 0.28 | 16.1 |
| 4/21/2015 8:12:34 | 49.21 | 46.31 | 297 | 1.54 | 0.29 | 16.2 |
| 4/21/2015 8:12:37 | 49.54 | 46.64 | 163 | 1.62 | 0.28 | 8.9 |
| 4/21/2015 8:13:17 | 49.87 | 46.97 | 121 | 1.57 | 1.12 | 6.6 |
| 4/21/2015 8:13:19 | 50.20 | 47.30 | 179 | 1.62 | 1.30 | 9.8 |
| 4/21/2015 8:13:21 | 50.53 | 47.63 | 168 | 1.66 | 1.17 | 9.2 |
| 4/21/2015 8:13:23 | 50.85 | 47.95 | 159 | 1.64 | 1.24 | 8.7 |
| 4/21/2015 8:13:26 | 51.18 | 48.28 | 144 | 1.68 | 1.21 | 7.9 |
| 4/21/2015 8:13:29 | 51.51 | 48.61 | 124 | 1.66 | 1.50 | 6.8 |
| 4/21/2015 8:13:32 | 51.84 | 48.94 | 136 | 1.63 | 1.24 | 7.4 |
| 4/21/2015 8:13:34 | 52.17 | 49.27 | 156 | 1.63 | 1.48 | 8.5 |
| 4/21/2015 8:13:37 | 52.49 | 49.59 | 150 | 1.63 | 1.21 | 8.2 |
| 4/21/2015 8:13:42 | 52.82 | 49.92 | 34 | 1.65 | 1.10 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:13:45 | 53.15 | 50.25 | 121 | 1.68 | 1.14 | 6.6 |
| 4/21/2015 | 8:13:48 | 53.48 | 50.58 | 135 | 1.64 | 1.07 | 7.4 |
| 4/21/2015 | 8:13:50 | 53.81 | 50.91 | 173 | 1.67 | 1.11 | 9.5 |
| 4/21/2015 | 8:13:52 | 54.13 | 51.23 | 167 | 1.64 | 1.12 | 9.1 |
| 4/21/2015 | 8:13:54 | 54.46 | 51.56 | 162 | 1.63 | 1.05 | 8.9 |
| 4/21/2015 | 8:13:56 | 54.79 | 51.89 | 158 | 1.65 | 1.06 | 8.6 |
| 4/21/2015 | 8:13:59 | 55.12 | 52.22 | 161 | 1.65 | 1.07 | 8.8 |
| 4/21/2015 | 8:14:01 | 55.45 | 52.55 | 153 | 1.66 | 1.08 | 8.4 |
| 4/21/2015 | 8:14:03 | 55.77 | 52.87 | 153 | 1.66 | 1.01 | 8.4 |
| 4/21/2015 | 8:14:05 | 56.10 | 53.20 | 156 | 1.65 | 1.05 | 8.5 |
| 4/21/2015 | 8:14:08 | 56.43 | 53.53 | 168 | 1.62 | 1.05 | 9.2 |
| 4/21/2015 | 8:14:11 | 56.76 | 53.86 | 112 | 1.58 | 1.11 | 6.1 |
| 4/21/2015 | 8:14:14 | 57.09 | 54.19 | 98 | 1.60 | 1.09 | 5.4 |
| 4/21/2015 | 8:14:18 | 57.41 | 54.51 | 98 | 1.60 | 1.14 | 5.4 |
| 4/21/2015 | 8:14:22 | 57.74 | 54.84 | 88 | 1.60 | 1.06 | 4.8 |
| 4/21/2015 | 8:14:26 | 57.99 | 55.09 | 64 | 1.44 | 1.14 | 3.5 |

## E33 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:08:51

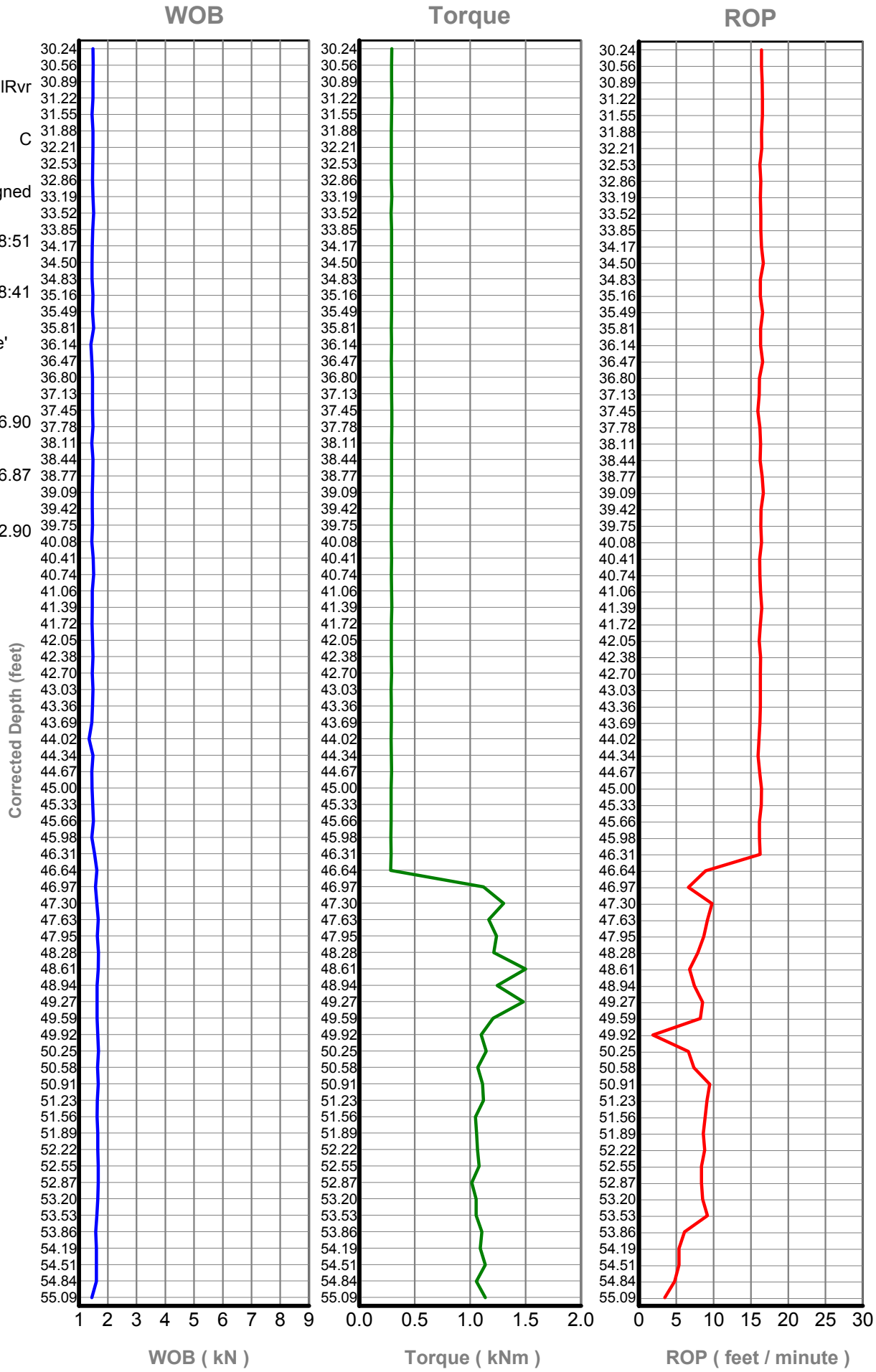
**End Date:**
4/21/2015 8:18:41

**Operator Note:**
'2.9 3.0 c Auto Complete'

**Northing:**
368,626.90

**Easting:**
252,966.87

**Tide (feet):**
2.90



## Hole: E34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:11:21 | 37.40 | 30.10 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:21 | 37.73 | 30.43 | 922 | 1.73 | 0.21 | 50.4 |
| 4/21/2015 2:11:22 | 38.06 | 30.76 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:22 | 38.39 | 31.09 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:23 | 38.71 | 31.41 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:23 | 39.04 | 31.74 | 927 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:24 | 39.37 | 32.07 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:24 | 39.70 | 32.40 | 933 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 2:11:25 | 40.03 | 32.73 | 933 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 2:11:25 | 40.35 | 33.05 | 934 | 1.73 | 0.21 | 51.1 |
| 4/21/2015 2:11:25 | 40.68 | 33.38 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 2:11:26 | 41.01 | 33.71 | 937 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 2:11:26 | 41.34 | 34.04 | 937 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 2:11:26 | 41.67 | 34.37 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 2:11:27 | 41.99 | 34.69 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:27 | 42.32 | 35.02 | 931 | 1.73 | 0.21 | 50.9 |
| 4/21/2015 2:11:28 | 42.65 | 35.35 | 931 | 1.73 | 0.21 | 50.9 |
| 4/21/2015 2:11:28 | 42.98 | 35.68 | 912 | 1.73 | 0.21 | 49.9 |
| 4/21/2015 2:11:28 | 43.31 | 36.01 | 912 | 1.73 | 0.21 | 49.9 |
| 4/21/2015 2:11:29 | 43.64 | 36.34 | 923 | 1.73 | 0.21 | 50.5 |
| 4/21/2015 2:11:29 | 43.96 | 36.66 | 923 | 1.73 | 0.21 | 50.5 |
| 4/21/2015 2:11:29 | 44.29 | 36.99 | 918 | 1.73 | 0.21 | 50.2 |
| 4/21/2015 2:11:30 | 44.62 | 37.32 | 923 | 1.73 | 0.21 | 50.5 |
| 4/21/2015 2:11:30 | 44.95 | 37.65 | 911 | 1.73 | 0.21 | 49.8 |
| 4/21/2015 2:11:31 | 45.28 | 37.98 | 911 | 1.73 | 0.21 | 49.8 |
| 4/21/2015 2:11:31 | 45.60 | 38.30 | 911 | 1.73 | 0.21 | 49.8 |
| 4/21/2015 2:11:31 | 45.93 | 38.63 | 932 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 2:11:32 | 46.26 | 38.96 | 932 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 2:11:32 | 46.59 | 39.29 | 921 | 1.73 | 0.21 | 50.3 |
| 4/21/2015 2:11:32 | 46.92 | 39.62 | 926 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:33 | 47.24 | 39.94 | 918 | 1.73 | 0.21 | 50.2 |
| 4/21/2015 2:11:33 | 47.57 | 40.27 | 918 | 1.73 | 0.21 | 50.2 |
| 4/21/2015 2:11:33 | 47.90 | 40.60 | 934 | 1.73 | 0.21 | 51.0 |
| 4/21/2015 2:11:34 | 48.23 | 40.93 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:34 | 48.56 | 41.26 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:35 | 48.88 | 41.58 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:35 | 49.21 | 41.91 | 927 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:36 | 49.54 | 42.24 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:36 | 49.87 | 42.57 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:37 | 50.20 | 42.90 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:37 | 50.53 | 43.23 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:37 | 50.85 | 43.55 | 931 | 1.73 | 0.21 | 50.9 |
| 4/21/2015 2:11:38 | 51.18 | 43.88 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:38 | 51.51 | 44.21 | 925 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:38 | 51.84 | 44.54 | 936 | 1.73 | 0.21 | 51.2 |
| 4/21/2015 2:11:39 | 52.17 | 44.87 | 931 | 1.73 | 0.21 | 50.9 |
| 4/21/2015 2:11:39 | 52.49 | 45.19 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:40 | 52.82 | 45.52 | 928 | 1.73 | 0.21 | 50.7 |
| 4/21/2015 2:11:40 | 53.15 | 45.85 | 924 | 1.73 | 0.21 | 50.6 |
| 4/21/2015 2:11:40 | 53.48 | 46.18 | 919 | 1.73 | 0.21 | 50.3 |
| 4/21/2015 2:11:45 | 53.81 | 46.51 | 20 | 1.73 | 0.21 | 1.1 |
| 4/21/2015 2:12:12 | 54.13 | 46.83 | 47 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 2:12:21 | 54.46 | 47.16 | 50 | 1.73 | 0.21 | 2.7 |
| 4/21/2015 2:12:23 | 54.79 | 47.49 | 119 | 1.73 | 0.21 | 6.5 |
| 4/21/2015 2:12:24 | 55.12 | 47.82 | 229 | 1.73 | 0.21 | 12.5 |
| 4/21/2015 2:12:27 | 55.45 | 48.15 | 147 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 2:12:37 | 55.77 | 48.47 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 2:12:39 | 56.10 | 48.80 | 117 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 2:12:40 | 56.43 | 49.13 | 228 | 1.73 | 0.21 | 12.5 |
| 4/21/2015 2:12:41 | 56.76 | 49.46 | 328 | 1.73 | 0.21 | 18.0 |
| 4/21/2015 2:12:41 | 57.09 | 49.79 | 364 | 1.73 | 0.21 | 19.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 2:12:42 | 57.41 | 50.11 | 410 | 1.73 | 0.21 | 22.4 |
| 4/21/2015 | 2:12:43 | 57.74 | 50.44 | 442 | 1.73 | 0.21 | 24.1 |
| 4/21/2015 | 2:12:44 | 58.07 | 50.77 | 448 | 1.73 | 0.21 | 24.5 |
| 4/21/2015 | 2:12:45 | 58.40 | 51.10 | 422 | 1.73 | 0.21 | 23.1 |
| 4/21/2015 | 2:12:54 | 58.73 | 51.43 | 100 | 1.73 | 0.21 | 5.5 |
| 4/21/2015 | 2:12:57 | 59.06 | 51.76 | 133 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 2:13:01 | 59.38 | 52.08 | 102 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 | 2:13:06 | 59.71 | 52.41 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 2:13:11 | 60.04 | 52.74 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 2:13:11 | 60.37 | 53.07 | 142 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 | 2:13:12 | 60.70 | 53.40 | 261 | 1.73 | 0.21 | 14.3 |
| 4/21/2015 | 2:13:14 | 61.02 | 53.72 | 340 | 1.73 | 0.21 | 18.6 |
| 4/21/2015 | 2:13:15 | 61.35 | 54.05 | 327 | 1.73 | 0.21 | 17.9 |
| 4/21/2015 | 2:13:15 | 61.68 | 54.38 | 334 | 1.73 | 0.21 | 18.3 |
| 4/21/2015 | 2:13:16 | 62.01 | 54.71 | 362 | 1.73 | 0.21 | 19.8 |
| 4/21/2015 | 2:13:17 | 62.34 | 55.04 | 391 | 1.73 | 0.21 | 21.4 |
| 4/21/2015 | 2:13:18 | 62.51 | 55.21 | 387 | 1.73 | 0.21 | 21.2 |

## E34 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:07:55

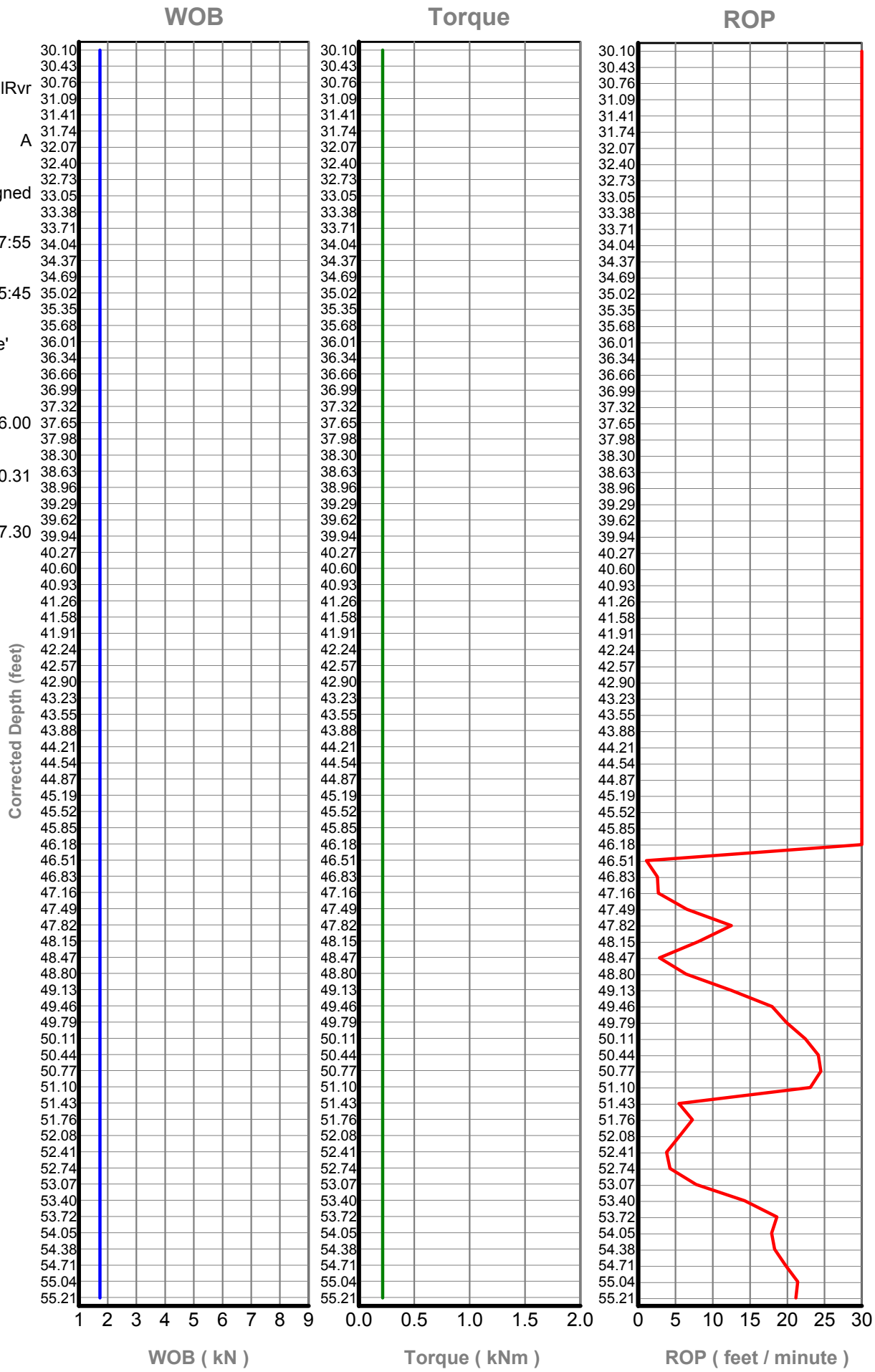
**End Date:**
4/21/2015 2:15:45

**Operator Note:**
'7.3 7 3 b Auto Complete'

**Northing:**
368,696.00

**Easting:**
253,050.31

**Tide (feet):**
7.30



## Hole: E35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:22:43 | 37.73 | 30.23 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 2:22:43 | 38.06 | 30.56 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 2:22:44 | 38.39 | 30.89 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 2:22:44 | 38.71 | 31.21 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:45 | 39.04 | 31.54 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:45 | 39.37 | 31.87 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 2:22:45 | 39.70 | 32.20 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 2:22:46 | 40.03 | 32.53 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 2:22:46 | 40.35 | 32.85 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:46 | 40.68 | 33.18 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 2:22:47 | 41.01 | 33.51 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 2:22:47 | 41.34 | 33.84 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:47 | 41.67 | 34.17 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 2:22:48 | 41.99 | 34.49 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 2:22:48 | 42.32 | 34.82 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 2:22:48 | 42.65 | 35.15 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:49 | 42.98 | 35.48 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:49 | 43.31 | 35.81 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 2:22:49 | 43.64 | 36.14 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:50 | 43.96 | 36.46 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:50 | 44.29 | 36.79 | 1,003 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:51 | 44.62 | 37.12 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 2:22:51 | 44.95 | 37.45 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:52 | 45.28 | 37.78 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:52 | 45.60 | 38.10 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:52 | 45.93 | 38.43 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 2:22:53 | 46.26 | 38.76 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 2:22:53 | 46.59 | 39.09 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 2:22:53 | 46.92 | 39.42 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:54 | 47.24 | 39.74 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:54 | 47.57 | 40.07 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 2:22:54 | 47.90 | 40.40 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:55 | 48.23 | 40.73 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:55 | 48.56 | 41.06 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:22:55 | 48.88 | 41.38 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:56 | 49.21 | 41.71 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 2:22:56 | 49.54 | 42.04 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 2:22:56 | 49.87 | 42.37 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 2:22:57 | 50.20 | 42.70 | 993 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 2:22:57 | 50.53 | 43.03 | 993 | 1.73 | 0.21 | 54.3 |
| 4/21/2015 2:22:57 | 50.85 | 43.35 | 1,002 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:58 | 51.18 | 43.68 | 1,002 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:58 | 51.51 | 44.01 | 1,002 | 1.73 | 0.21 | 54.8 |
| 4/21/2015 2:22:58 | 51.84 | 44.34 | 996 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 2:22:59 | 52.17 | 44.67 | 996 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 2:22:59 | 52.49 | 44.99 | 996 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 2:22:59 | 52.82 | 45.32 | 1,005 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 2:23:00 | 53.15 | 45.65 | 981 | 1.73 | 0.21 | 53.7 |
| 4/21/2015 2:23:05 | 53.48 | 45.98 | 38 | 1.73 | 0.21 | 2.1 |
| 4/21/2015 2:23:45 | 53.81 | 46.31 | 74 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 2:23:53 | 54.13 | 46.63 | 72 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 2:24:06 | 54.46 | 46.96 | 38 | 1.73 | 0.21 | 2.1 |
| 4/21/2015 2:24:08 | 54.79 | 47.29 | 127 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 2:24:08 | 55.12 | 47.62 | 210 | 1.73 | 0.21 | 11.5 |
| 4/21/2015 2:24:09 | 55.45 | 47.95 | 324 | 1.73 | 0.21 | 17.7 |
| 4/21/2015 2:24:11 | 55.77 | 48.27 | 425 | 1.73 | 0.21 | 23.2 |
| 4/21/2015 2:24:11 | 56.10 | 48.60 | 409 | 1.73 | 0.21 | 22.3 |
| 4/21/2015 2:24:42 | 56.43 | 48.93 | 40 | 1.73 | 0.21 | 2.2 |
| 4/21/2015 2:24:45 | 56.76 | 49.26 | 135 | 1.73 | 0.21 | 7.4 |
| 4/21/2015 2:24:46 | 57.09 | 49.59 | 108 | 1.73 | 0.21 | 5.9 |
| 4/21/2015 2:24:47 | 57.41 | 49.91 | 212 | 1.73 | 0.21 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 2:24:51 | 57.74 | 50.24 | 88 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 2:24:57 | 58.07 | 50.57 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 2:25:04 | 58.40 | 50.90 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 | 2:25:06 | 58.73 | 51.23 | 125 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 | 2:25:07 | 59.06 | 51.56 | 253 | 1.73 | 0.21 | 13.9 |
| 4/21/2015 | 2:25:08 | 59.38 | 51.88 | 276 | 1.73 | 0.21 | 15.1 |
| 4/21/2015 | 2:25:10 | 59.71 | 52.21 | 305 | 1.73 | 0.21 | 16.7 |
| 4/21/2015 | 2:25:11 | 60.04 | 52.54 | 322 | 1.73 | 0.21 | 17.6 |
| 4/21/2015 | 2:25:12 | 60.37 | 52.87 | 333 | 1.73 | 0.21 | 18.2 |
| 4/21/2015 | 2:25:13 | 60.70 | 53.20 | 280 | 1.73 | 0.21 | 15.3 |
| 4/21/2015 | 2:25:15 | 61.02 | 53.52 | 236 | 1.73 | 0.21 | 12.9 |
| 4/21/2015 | 2:25:17 | 61.35 | 53.85 | 204 | 1.73 | 0.21 | 11.2 |
| 4/21/2015 | 2:25:19 | 61.68 | 54.18 | 157 | 1.73 | 0.21 | 8.6 |
| 4/21/2015 | 2:25:21 | 62.01 | 54.51 | 160 | 1.73 | 0.21 | 8.7 |
| 4/21/2015 | 2:25:31 | 62.34 | 54.84 | 6 | 1.73 | 0.21 | 0.3 |

## E35 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:19:05

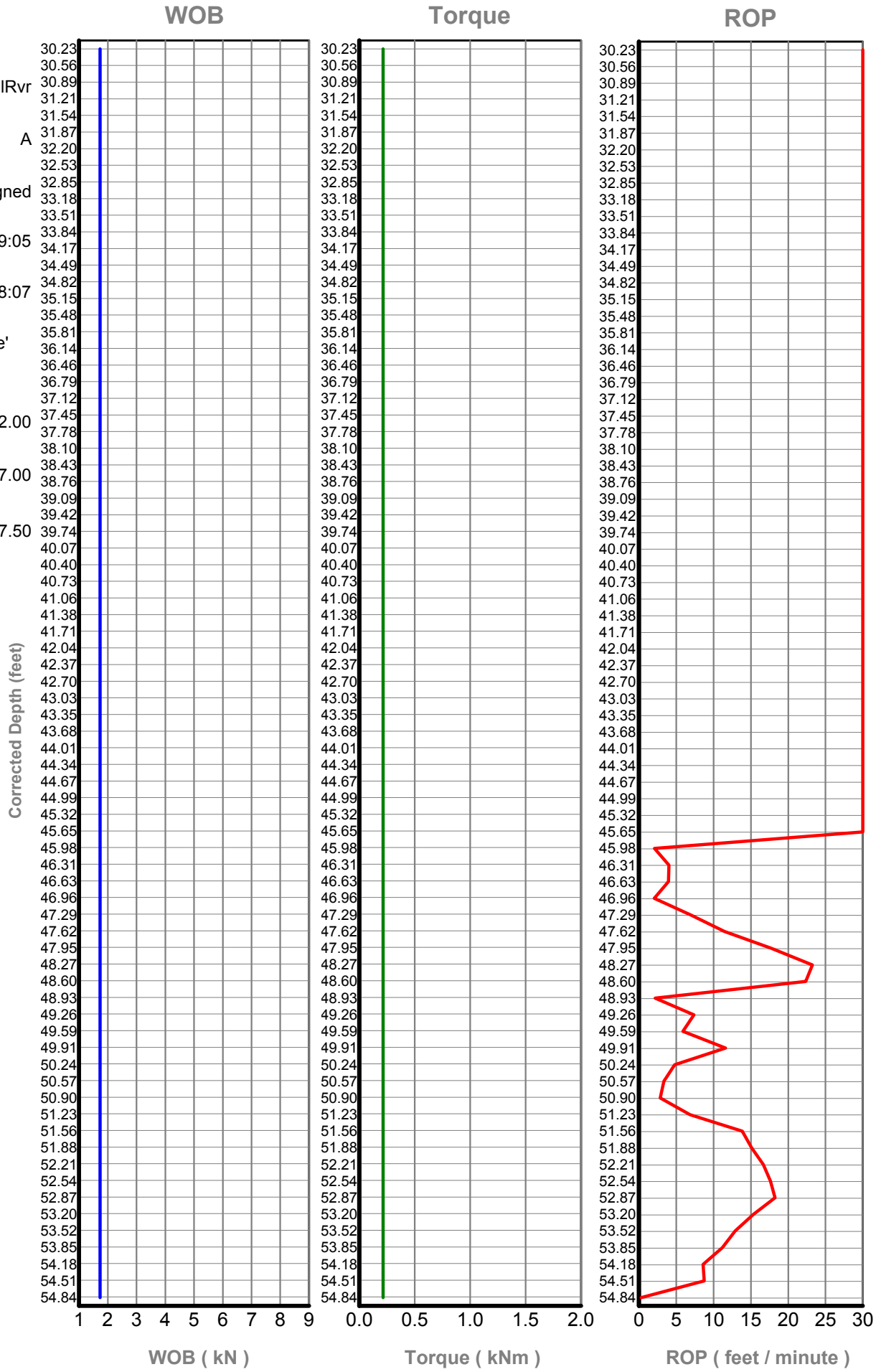
**End Date:**
4/21/2015 2:28:07

**Operator Note:**
'7.5 7.4 b Auto Complete'

**Northing:**
368,732.00

**Easting:**
253,097.00

**Tide (feet):**
7.50



## Hole: E36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 2:10:23 | 37.40 | 30.10 | 337 | 1.48 | 0.13 | 18.4 |
| 4/21/2015 2:10:24 | 37.73 | 30.43 | 333 | 1.49 | 0.13 | 18.2 |
| 4/21/2015 2:10:25 | 38.06 | 30.76 | 333 | 1.48 | 0.13 | 18.2 |
| 4/21/2015 2:10:26 | 38.39 | 31.09 | 330 | 1.53 | 0.13 | 18.0 |
| 4/21/2015 2:10:27 | 38.71 | 31.41 | 330 | 1.44 | 0.13 | 18.0 |
| 4/21/2015 2:10:28 | 39.04 | 31.74 | 330 | 1.50 | 0.13 | 18.0 |
| 4/21/2015 2:10:29 | 39.37 | 32.07 | 330 | 1.51 | 0.13 | 18.0 |
| 4/21/2015 2:10:30 | 39.70 | 32.40 | 328 | 1.48 | 0.13 | 17.9 |
| 4/21/2015 2:10:32 | 40.03 | 32.73 | 330 | 1.51 | 0.13 | 18.0 |
| 4/21/2015 2:10:33 | 40.35 | 33.05 | 330 | 1.51 | 0.13 | 18.0 |
| 4/21/2015 2:10:34 | 40.68 | 33.38 | 327 | 1.50 | 0.13 | 17.9 |
| 4/21/2015 2:10:35 | 41.01 | 33.71 | 325 | 1.49 | 0.13 | 17.8 |
| 4/21/2015 2:10:36 | 41.34 | 34.04 | 327 | 1.47 | 0.13 | 17.9 |
| 4/21/2015 2:10:37 | 41.67 | 34.37 | 327 | 1.45 | 0.13 | 17.9 |
| 4/21/2015 2:10:38 | 41.99 | 34.69 | 327 | 1.51 | 0.13 | 17.9 |
| 4/21/2015 2:10:39 | 42.32 | 35.02 | 322 | 1.45 | 0.13 | 17.6 |
| 4/21/2015 2:10:40 | 42.65 | 35.35 | 325 | 1.52 | 0.13 | 17.8 |
| 4/21/2015 2:10:42 | 42.98 | 35.68 | 332 | 1.48 | 0.13 | 18.1 |
| 4/21/2015 2:10:43 | 43.31 | 36.01 | 318 | 1.47 | 0.13 | 17.4 |
| 4/21/2015 2:10:44 | 43.64 | 36.34 | 321 | 1.50 | 0.13 | 17.6 |
| 4/21/2015 2:10:45 | 43.96 | 36.66 | 321 | 1.52 | 0.13 | 17.6 |
| 4/21/2015 2:10:46 | 44.29 | 36.99 | 334 | 1.50 | 0.13 | 18.3 |
| 4/21/2015 2:10:47 | 44.62 | 37.32 | 324 | 1.48 | 0.13 | 17.7 |
| 4/21/2015 2:10:48 | 44.95 | 37.65 | 325 | 1.48 | 0.13 | 17.8 |
| 4/21/2015 2:10:49 | 45.28 | 37.98 | 324 | 1.50 | 0.13 | 17.7 |
| 4/21/2015 2:10:50 | 45.60 | 38.30 | 329 | 1.45 | 0.13 | 18.0 |
| 4/21/2015 2:10:51 | 45.93 | 38.63 | 322 | 1.47 | 0.13 | 17.6 |
| 4/21/2015 2:10:53 | 46.26 | 38.96 | 327 | 1.50 | 0.13 | 17.9 |
| 4/21/2015 2:10:54 | 46.59 | 39.29 | 322 | 1.51 | 0.13 | 17.6 |
| 4/21/2015 2:10:55 | 46.92 | 39.62 | 327 | 1.50 | 0.13 | 17.9 |
| 4/21/2015 2:10:56 | 47.24 | 39.94 | 327 | 1.49 | 0.13 | 17.9 |
| 4/21/2015 2:10:57 | 47.57 | 40.27 | 327 | 1.47 | 0.13 | 17.9 |
| 4/21/2015 2:10:58 | 47.90 | 40.60 | 325 | 1.49 | 0.13 | 17.8 |
| 4/21/2015 2:10:59 | 48.23 | 40.93 | 327 | 1.45 | 0.13 | 17.9 |
| 4/21/2015 2:11:00 | 48.56 | 41.26 | 324 | 1.49 | 0.13 | 17.7 |
| 4/21/2015 2:11:01 | 48.88 | 41.58 | 324 | 1.53 | 0.13 | 17.7 |
| 4/21/2015 2:11:03 | 49.21 | 41.91 | 327 | 1.50 | 0.13 | 17.9 |
| 4/21/2015 2:11:04 | 49.54 | 42.24 | 322 | 1.52 | 0.13 | 17.6 |
| 4/21/2015 2:11:05 | 49.87 | 42.57 | 322 | 1.49 | 0.12 | 17.6 |
| 4/21/2015 2:11:06 | 50.20 | 42.90 | 320 | 1.50 | 0.13 | 17.5 |
| 4/21/2015 2:11:07 | 50.53 | 43.23 | 324 | 1.49 | 0.13 | 17.7 |
| 4/21/2015 2:11:08 | 50.85 | 43.55 | 321 | 1.50 | 0.12 | 17.5 |
| 4/21/2015 2:11:09 | 51.18 | 43.88 | 324 | 1.47 | 0.13 | 17.7 |
| 4/21/2015 2:11:10 | 51.51 | 44.21 | 326 | 1.49 | 0.13 | 17.8 |
| 4/21/2015 2:11:11 | 51.84 | 44.54 | 319 | 1.51 | 0.13 | 17.5 |
| 4/21/2015 2:11:12 | 52.17 | 44.87 | 317 | 1.55 | 0.13 | 17.4 |
| 4/21/2015 2:11:50 | 52.49 | 45.19 | 15 | 1.57 | 1.30 | 0.8 |
| 4/21/2015 2:11:59 | 52.82 | 45.52 | 90 | 1.64 | 1.47 | 4.9 |
| 4/21/2015 2:12:29 | 53.15 | 45.85 | 78 | 1.57 | 1.11 | 4.3 |
| 4/21/2015 2:12:30 | 53.48 | 46.18 | 142 | 1.60 | 0.99 | 7.8 |
| 4/21/2015 2:12:32 | 53.81 | 46.51 | 213 | 1.58 | 0.96 | 11.6 |
| 4/21/2015 2:13:40 | 54.13 | 46.83 | 65 | 1.62 | 1.13 | 3.5 |
| 4/21/2015 2:13:43 | 54.46 | 47.16 | 153 | 1.62 | 1.18 | 8.4 |
| 4/21/2015 2:14:25 | 54.79 | 47.49 | 53 | 1.65 | 1.22 | 2.9 |
| 4/21/2015 2:14:28 | 55.12 | 47.82 | 122 | 1.64 | 1.24 | 6.7 |
| 4/21/2015 2:16:06 | 55.45 | 48.15 | 29 | 1.66 | 1.05 | 1.6 |
| 4/21/2015 2:16:09 | 55.77 | 48.47 | 142 | 1.66 | 1.03 | 7.7 |
| 4/21/2015 2:16:38 | 56.10 | 48.80 | 21 | 1.63 | 1.12 | 1.2 |
| 4/21/2015 2:16:40 | 56.43 | 49.13 | 110 | 1.63 | 1.15 | 6.0 |
| 4/21/2015 2:16:43 | 56.76 | 49.46 | 153 | 1.59 | 1.08 | 8.4 |
| 4/21/2015 2:17:15 | 57.09 | 49.79 | 9 | 1.61 | 1.06 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 2:17:19 | 57.41 | 50.11 | 120 | 1.59 | 1.12 | 6.5 |
| 4/21/2015 | 2:17:21 | 57.74 | 50.44 | 132 | 1.58 | 1.07 | 7.2 |
| 4/21/2015 | 2:17:28 | 58.07 | 50.77 | 0 | 1.55 | 0.89 | 0.0 |
| 4/21/2015 | 2:17:35 | 58.40 | 51.10 | 75 | 1.59 | 1.09 | 4.1 |
| 4/21/2015 | 2:17:40 | 58.73 | 51.43 | 86 | 1.66 | 1.10 | 4.7 |
| 4/21/2015 | 2:17:44 | 59.06 | 51.76 | 99 | 1.66 | 1.07 | 5.4 |
| 4/21/2015 | 2:17:47 | 59.38 | 52.08 | 94 | 1.65 | 1.15 | 5.1 |
| 4/21/2015 | 2:17:51 | 59.71 | 52.41 | 95 | 1.66 | 1.07 | 5.2 |
| 4/21/2015 | 2:17:55 | 60.04 | 52.74 | 95 | 1.66 | 1.14 | 5.2 |
| 4/21/2015 | 2:17:58 | 60.37 | 53.07 | 94 | 1.68 | 1.12 | 5.1 |
| 4/21/2015 | 2:18:02 | 60.70 | 53.40 | 98 | 1.64 | 1.06 | 5.4 |
| 4/21/2015 | 2:18:05 | 61.02 | 53.72 | 121 | 1.66 | 0.97 | 6.6 |
| 4/21/2015 | 2:18:10 | 61.35 | 54.05 | 82 | 1.66 | 1.08 | 4.5 |
| 4/21/2015 | 2:18:14 | 61.68 | 54.38 | 81 | 1.66 | 1.07 | 4.4 |
| 4/21/2015 | 2:18:19 | 62.01 | 54.71 | 74 | 1.67 | 1.13 | 4.1 |
| 4/21/2015 | 2:18:23 | 62.29 | 54.99 | 76 | 1.66 | 1.12 | 4.1 |

## E36 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 2:07:30

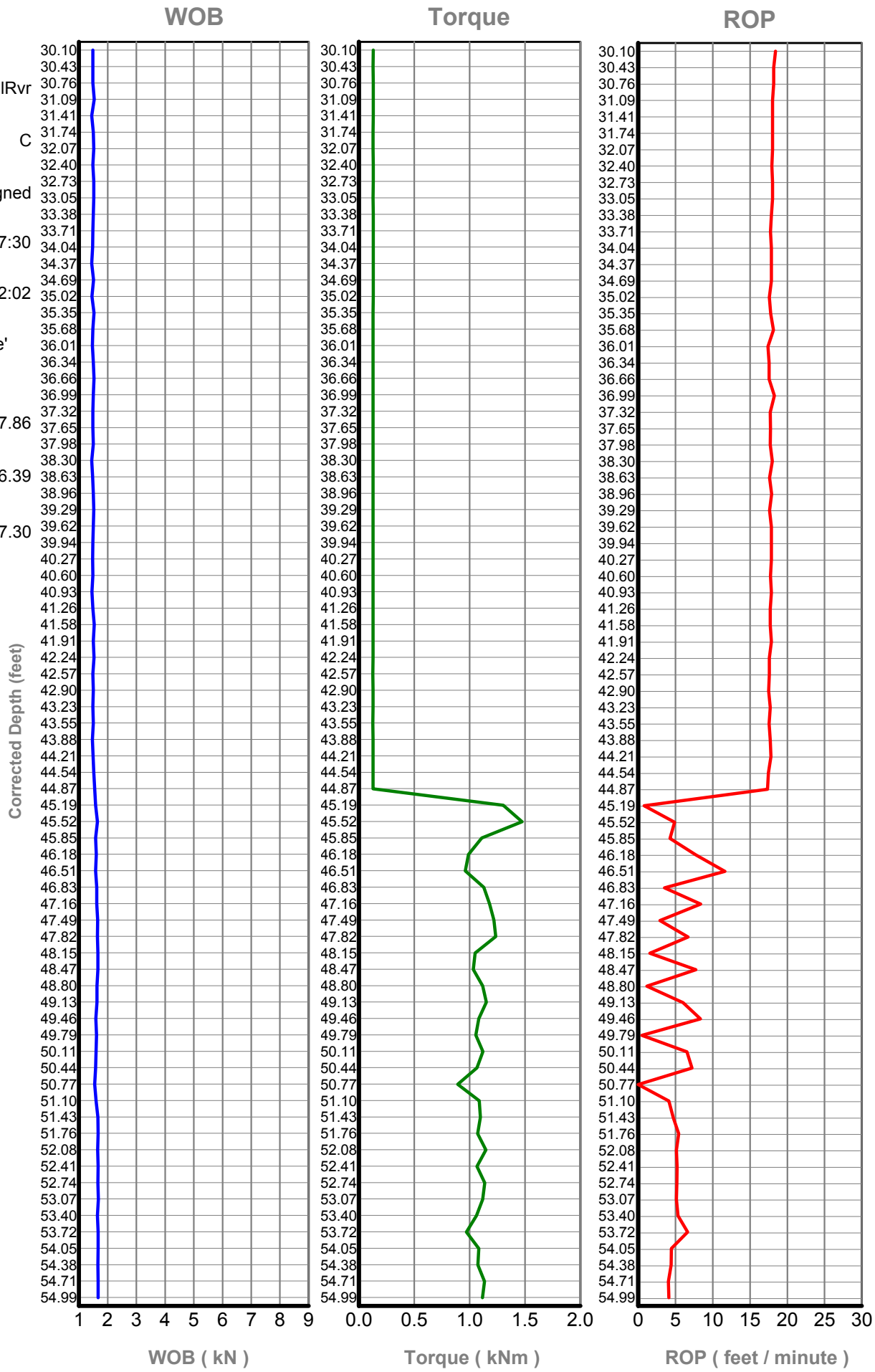
**End Date:**
4/21/2015 2:22:02

**Operator Note:**
'7.3 7.3 c Auto Complete'

**Northing:**
368,777.86

**Easting:**
253,156.39

**Tide (feet):**
7.30



## Hole: E37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:03:40 | 36.42 | 30.12 | 1,135 | 0.27 | 0.32 | 62.1 |
| 4/20/2015 16:03:40 | 36.75 | 30.45 | 1,135 | 0.27 | 0.32 | 62.1 |
| 4/20/2015 16:03:40 | 37.07 | 30.77 | 1,121 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:41 | 37.40 | 31.10 | 1,121 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:41 | 37.73 | 31.43 | 1,121 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:41 | 38.06 | 31.76 | 1,136 | 0.27 | 0.31 | 62.1 |
| 4/20/2015 16:03:42 | 38.39 | 32.09 | 1,136 | 0.27 | 0.31 | 62.1 |
| 4/20/2015 16:03:42 | 38.71 | 32.41 | 1,146 | 0.27 | 0.31 | 62.7 |
| 4/20/2015 16:03:42 | 39.04 | 32.74 | 1,129 | 0.26 | 0.32 | 61.7 |
| 4/20/2015 16:03:43 | 39.37 | 33.07 | 1,129 | 0.26 | 0.32 | 61.7 |
| 4/20/2015 16:03:43 | 39.70 | 33.40 | 1,112 | 0.26 | 0.32 | 60.8 |
| 4/20/2015 16:03:43 | 40.03 | 33.73 | 1,112 | 0.26 | 0.32 | 60.8 |
| 4/20/2015 16:03:43 | 40.35 | 34.05 | 1,137 | 0.27 | 0.31 | 62.2 |
| 4/20/2015 16:03:44 | 40.68 | 34.38 | 1,122 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:44 | 41.01 | 34.71 | 1,122 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:44 | 41.34 | 35.04 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/20/2015 16:03:45 | 41.67 | 35.37 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/20/2015 16:03:45 | 41.99 | 35.69 | 1,119 | 0.27 | 0.31 | 61.2 |
| 4/20/2015 16:03:46 | 42.32 | 36.02 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 16:03:46 | 42.65 | 36.35 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 16:03:46 | 42.98 | 36.68 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 16:03:47 | 43.31 | 37.01 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 16:03:47 | 43.64 | 37.34 | 1,122 | 0.27 | 0.31 | 61.3 |
| 4/20/2015 16:03:47 | 43.96 | 37.66 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/20/2015 16:03:48 | 44.29 | 37.99 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/20/2015 16:03:48 | 44.62 | 38.32 | 1,125 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 16:03:48 | 44.95 | 38.65 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 16:03:49 | 45.28 | 38.98 | 1,116 | 0.26 | 0.31 | 61.0 |
| 4/20/2015 16:03:49 | 45.60 | 39.30 | 1,113 | 0.27 | 0.31 | 60.9 |
| 4/20/2015 16:03:49 | 45.93 | 39.63 | 1,113 | 0.27 | 0.31 | 60.9 |
| 4/20/2015 16:03:49 | 46.26 | 39.96 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 16:03:50 | 46.59 | 40.29 | 1,119 | 0.27 | 0.31 | 61.2 |
| 4/20/2015 16:03:50 | 46.92 | 40.62 | 1,119 | 0.27 | 0.31 | 61.2 |
| 4/20/2015 16:03:50 | 47.24 | 40.94 | 1,116 | 0.27 | 0.33 | 61.0 |
| 4/20/2015 16:03:51 | 47.57 | 41.27 | 1,116 | 0.27 | 0.33 | 61.0 |
| 4/20/2015 16:03:51 | 47.90 | 41.60 | 1,116 | 0.29 | 0.32 | 61.0 |
| 4/20/2015 16:03:51 | 48.23 | 41.93 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 16:03:52 | 48.56 | 42.26 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 16:03:52 | 48.88 | 42.58 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/20/2015 16:03:52 | 49.21 | 42.91 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:03:53 | 49.54 | 43.24 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:03:53 | 49.87 | 43.57 | 1,101 | 0.20 | 0.31 | 60.2 |
| 4/20/2015 16:03:53 | 50.20 | 43.90 | 1,101 | 0.20 | 0.31 | 60.2 |
| 4/20/2015 16:03:53 | 50.53 | 44.23 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:03:54 | 50.85 | 44.55 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/20/2015 16:03:54 | 51.18 | 44.88 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/20/2015 16:03:54 | 51.51 | 45.21 | 1,098 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:03:55 | 51.84 | 45.54 | 1,098 | 0.26 | 0.39 | 60.1 |
| 4/20/2015 16:04:06 | 52.17 | 45.87 | 0 | 3.08 | 0.36 | 0.0 |
| 4/20/2015 16:04:08 | 52.49 | 46.19 | 50 | 3.07 | 0.37 | 2.7 |
| 4/20/2015 16:04:09 | 52.82 | 46.52 | 218 | 4.57 | 0.37 | 11.9 |
| 4/20/2015 16:04:10 | 53.15 | 46.85 | 323 | 2.95 | 0.37 | 17.7 |
| 4/20/2015 16:04:11 | 53.48 | 47.18 | 323 | 2.95 | 0.37 | 17.7 |
| 4/20/2015 16:04:11 | 53.81 | 47.51 | 387 | 1.83 | 0.34 | 21.2 |
| 4/20/2015 16:04:12 | 54.13 | 47.83 | 469 | 1.99 | 0.34 | 25.7 |
| 4/20/2015 16:04:12 | 54.46 | 48.16 | 469 | 1.99 | 0.34 | 25.7 |
| 4/20/2015 16:04:12 | 54.79 | 48.49 | 581 | 2.07 | 0.36 | 31.8 |
| 4/20/2015 16:04:14 | 55.12 | 48.82 | 557 | 2.61 | 0.39 | 30.5 |
| 4/20/2015 16:04:17 | 55.45 | 49.15 | 129 | 2.66 | 0.39 | 7.0 |
| 4/20/2015 16:04:18 | 55.77 | 49.47 | 196 | 3.00 | 0.37 | 10.7 |
| 4/20/2015 16:04:19 | 56.10 | 49.80 | 285 | 3.47 | 0.39 | 15.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:04:20 | 56.43 | 50.13 | 326 | 3.20 | 0.39 | 17.8 |
| 4/20/2015 | 16:04:22 | 56.76 | 50.46 | 242 | 2.96 | 0.40 | 13.2 |
| 4/20/2015 | 16:04:23 | 57.09 | 50.79 | 214 | 2.74 | 0.38 | 11.7 |
| 4/20/2015 | 16:04:24 | 57.41 | 51.11 | 232 | 2.82 | 0.39 | 12.7 |
| 4/20/2015 | 16:04:26 | 57.74 | 51.44 | 298 | 2.77 | 0.37 | 16.3 |
| 4/20/2015 | 16:04:28 | 58.07 | 51.77 | 257 | 2.58 | 0.38 | 14.1 |
| 4/20/2015 | 16:04:29 | 58.40 | 52.10 | 233 | 2.50 | 0.39 | 12.7 |
| 4/20/2015 | 16:04:31 | 58.73 | 52.43 | 230 | 2.74 | 0.38 | 12.6 |
| 4/20/2015 | 16:04:33 | 59.06 | 52.76 | 183 | 2.80 | 0.40 | 10.0 |
| 4/20/2015 | 16:04:35 | 59.38 | 53.08 | 159 | 3.00 | 0.40 | 8.7 |
| 4/20/2015 | 16:04:38 | 59.71 | 53.41 | 143 | 3.28 | 0.38 | 7.8 |
| 4/20/2015 | 16:04:40 | 60.04 | 53.74 | 143 | 3.58 | 0.38 | 7.8 |
| 4/20/2015 | 16:04:42 | 60.37 | 54.07 | 165 | 3.79 | 0.38 | 9.0 |
| 4/20/2015 | 16:04:44 | 60.70 | 54.40 | 166 | 3.83 | 0.40 | 9.1 |
| 4/20/2015 | 16:04:50 | 61.02 | 54.72 | 75 | 3.77 | 0.39 | 4.1 |
| 4/20/2015 | 16:04:52 | 61.35 | 55.05 | 188 | 2.98 | 0.39 | 10.3 |
| 4/20/2015 | 16:04:53 | 61.68 | 55.38 | 262 | 3.61 | 0.39 | 14.3 |
| 4/20/2015 | 16:04:54 | 62.01 | 55.71 | 266 | 3.80 | 0.38 | 14.5 |
| 4/20/2015 | 16:04:57 | 62.34 | 56.04 | 126 | 3.45 | 0.40 | 6.9 |
| 4/20/2015 | 16:04:57 | 62.40 | 56.10 | 126 | 3.45 | 0.40 | 6.9 |

## E37 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:02:25

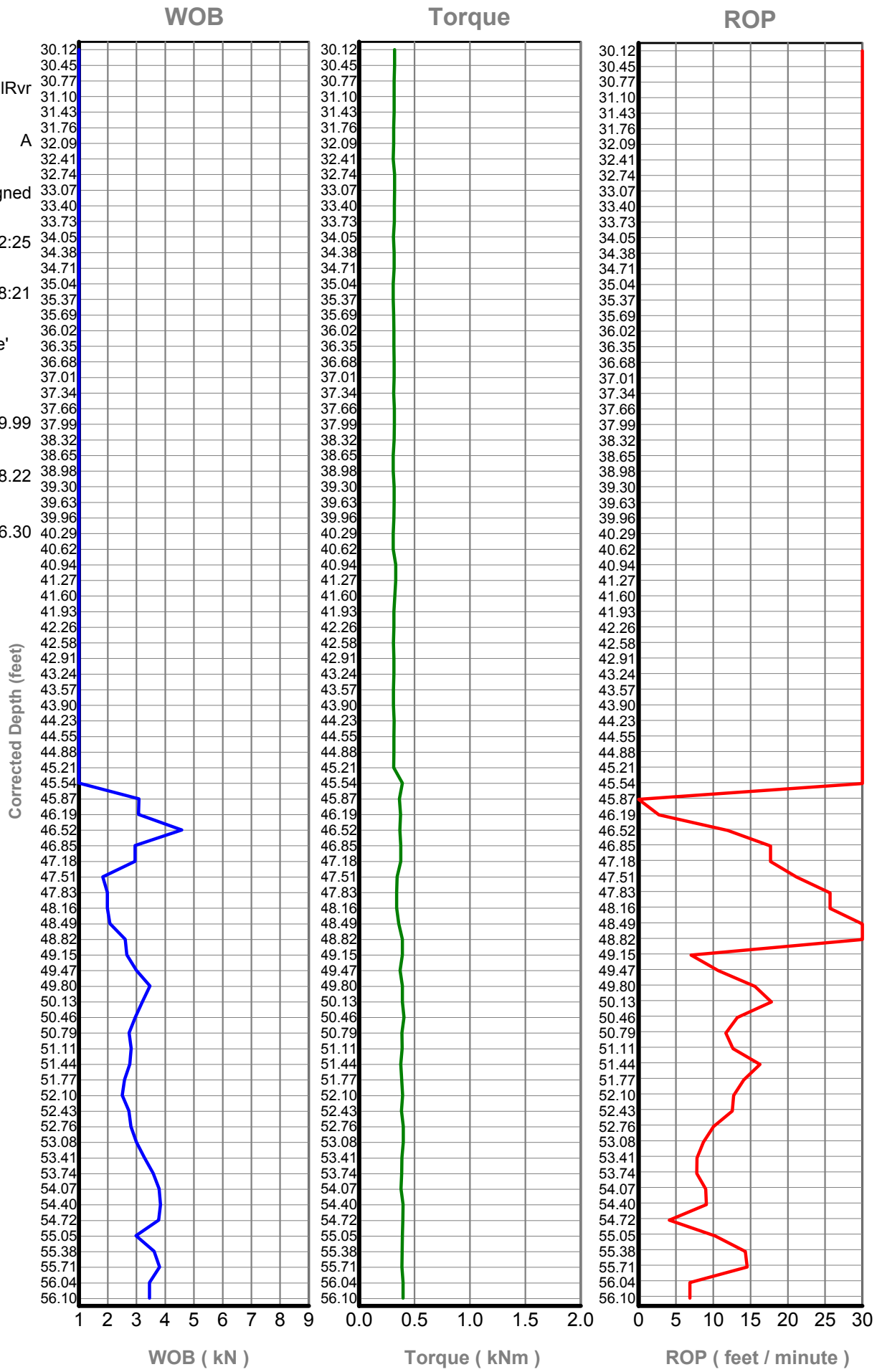
**End Date:**
4/20/2015 16:08:21

**Operator Note:**
'6.3 6.4 b Auto Complete'

**Northing:**
368,829.99

**Easting:**
253,218.22

**Tide (feet):**
6.30



## Hole: E38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 15:58:06 | 36.42 | 30.02 | 1,112 | 0.26 | 0.31 | 60.8 |
| 4/20/2015 15:58:07 | 36.75 | 30.35 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 15:58:07 | 37.07 | 30.67 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/20/2015 15:58:07 | 37.40 | 31.00 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 15:58:08 | 37.73 | 31.33 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 15:58:08 | 38.06 | 31.66 | 1,113 | 0.26 | 0.32 | 60.9 |
| 4/20/2015 15:58:08 | 38.39 | 31.99 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 15:58:09 | 38.71 | 32.31 | 1,113 | 0.26 | 0.31 | 60.9 |
| 4/20/2015 15:58:09 | 39.04 | 32.64 | 1,106 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 15:58:09 | 39.37 | 32.97 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/20/2015 15:58:10 | 39.70 | 33.30 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/20/2015 15:58:10 | 40.03 | 33.63 | 1,110 | 0.27 | 0.31 | 60.7 |
| 4/20/2015 15:58:10 | 40.35 | 33.95 | 1,110 | 0.27 | 0.31 | 60.7 |
| 4/20/2015 15:58:10 | 40.68 | 34.28 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/20/2015 15:58:11 | 41.01 | 34.61 | 1,107 | 0.27 | 0.32 | 60.5 |
| 4/20/2015 15:58:12 | 41.34 | 34.94 | 1,107 | 0.27 | 0.32 | 60.5 |
| 4/20/2015 15:58:11 | 41.67 | 35.27 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 15:58:12 | 41.99 | 35.59 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 15:58:12 | 42.32 | 35.92 | 1,104 | 0.26 | 0.31 | 60.4 |
| 4/20/2015 15:58:13 | 42.65 | 36.25 | 1,104 | 0.26 | 0.31 | 60.4 |
| 4/20/2015 15:58:13 | 42.98 | 36.58 | 1,104 | 0.26 | 0.31 | 60.4 |
| 4/20/2015 15:58:13 | 43.31 | 36.91 | 1,100 | 0.26 | 0.32 | 60.2 |
| 4/20/2015 15:58:14 | 43.64 | 37.24 | 1,107 | 0.27 | 0.32 | 60.5 |
| 4/20/2015 15:58:14 | 43.96 | 37.56 | 1,107 | 0.27 | 0.32 | 60.5 |
| 4/20/2015 15:58:14 | 44.29 | 37.89 | 1,111 | 0.26 | 0.31 | 60.8 |
| 4/20/2015 15:58:15 | 44.62 | 38.22 | 1,111 | 0.26 | 0.31 | 60.8 |
| 4/20/2015 15:58:15 | 44.95 | 38.55 | 1,101 | 0.26 | 0.32 | 60.2 |
| 4/20/2015 15:58:15 | 45.28 | 38.88 | 1,093 | 0.26 | 0.31 | 59.7 |
| 4/20/2015 15:58:16 | 45.60 | 39.20 | 1,093 | 0.26 | 0.31 | 59.7 |
| 4/20/2015 15:58:16 | 45.93 | 39.53 | 1,109 | 0.26 | 0.31 | 60.6 |
| 4/20/2015 15:58:16 | 46.26 | 39.86 | 1,093 | 0.27 | 0.32 | 59.8 |
| 4/20/2015 15:58:17 | 46.59 | 40.19 | 1,093 | 0.27 | 0.32 | 59.8 |
| 4/20/2015 15:58:17 | 46.92 | 40.52 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:58:17 | 47.24 | 40.84 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:58:17 | 47.57 | 41.17 | 1,096 | 0.27 | 0.32 | 60.0 |
| 4/20/2015 15:58:18 | 47.90 | 41.50 | 1,112 | 0.26 | 0.32 | 60.8 |
| 4/20/2015 15:58:18 | 48.23 | 41.83 | 1,112 | 0.26 | 0.32 | 60.8 |
| 4/20/2015 15:58:18 | 48.56 | 42.16 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/20/2015 15:58:19 | 48.88 | 42.48 | 1,102 | 0.26 | 0.31 | 60.3 |
| 4/20/2015 15:58:19 | 49.21 | 42.81 | 1,102 | 0.26 | 0.31 | 60.3 |
| 4/20/2015 15:58:19 | 49.54 | 43.14 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:58:20 | 49.87 | 43.47 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/20/2015 15:58:20 | 50.20 | 43.80 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/20/2015 15:58:20 | 50.53 | 44.13 | 1,087 | 0.26 | 0.32 | 59.4 |
| 4/20/2015 15:58:21 | 50.85 | 44.45 | 1,087 | 0.26 | 0.32 | 59.4 |
| 4/20/2015 15:58:42 | 51.18 | 44.78 | 0 | 2.42 | 0.37 | 0.0 |
| 4/20/2015 15:58:45 | 51.51 | 45.11 | 139 | 3.48 | 0.39 | 7.6 |
| 4/20/2015 15:58:49 | 51.84 | 45.44 | 52 | 3.60 | 0.40 | 2.8 |
| 4/20/2015 15:58:55 | 52.17 | 45.77 | 98 | 4.09 | 0.40 | 5.3 |
| 4/20/2015 15:59:06 | 52.49 | 46.09 | 65 | 3.97 | 0.39 | 3.6 |
| 4/20/2015 15:59:10 | 52.82 | 46.42 | 87 | 4.23 | 0.40 | 4.7 |
| 4/20/2015 15:59:15 | 53.15 | 46.75 | 81 | 4.05 | 0.40 | 4.4 |
| 4/20/2015 15:59:19 | 53.48 | 47.08 | 92 | 3.73 | 0.40 | 5.1 |
| 4/20/2015 15:59:22 | 53.81 | 47.41 | 107 | 3.86 | 0.38 | 5.8 |
| 4/20/2015 15:59:26 | 54.13 | 47.73 | 94 | 4.52 | 0.38 | 5.1 |
| 4/20/2015 15:59:30 | 54.46 | 48.06 | 85 | 4.32 | 0.40 | 4.6 |
| 4/20/2015 15:59:34 | 54.79 | 48.39 | 94 | 3.66 | 0.39 | 5.1 |
| 4/20/2015 15:59:38 | 55.12 | 48.72 | 81 | 4.00 | 0.40 | 4.4 |
| 4/20/2015 15:59:42 | 55.45 | 49.05 | 95 | 3.97 | 0.39 | 5.2 |
| 4/20/2015 15:59:47 | 55.77 | 49.37 | 80 | 3.50 | 0.40 | 4.4 |
| 4/20/2015 15:59:52 | 56.10 | 49.70 | 69 | 3.64 | 0.41 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 15:59:57 | 56.43 | 50.03 | 73 | 3.76 | 0.39 | 4.0 |
| 4/20/2015 | 16:00:02 | 56.76 | 50.36 | 59 | 3.94 | 0.41 | 3.2 |
| 4/20/2015 | 16:00:08 | 57.09 | 50.69 | 66 | 3.12 | 0.40 | 3.6 |
| 4/20/2015 | 16:00:15 | 57.41 | 51.01 | 54 | 2.88 | 0.40 | 3.0 |
| 4/20/2015 | 16:00:20 | 57.74 | 51.34 | 69 | 3.41 | 0.40 | 3.8 |
| 4/20/2015 | 16:00:22 | 57.86 | 51.46 | 64 | 3.56 | 0.40 | 3.5 |

## E38 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 15:56:22

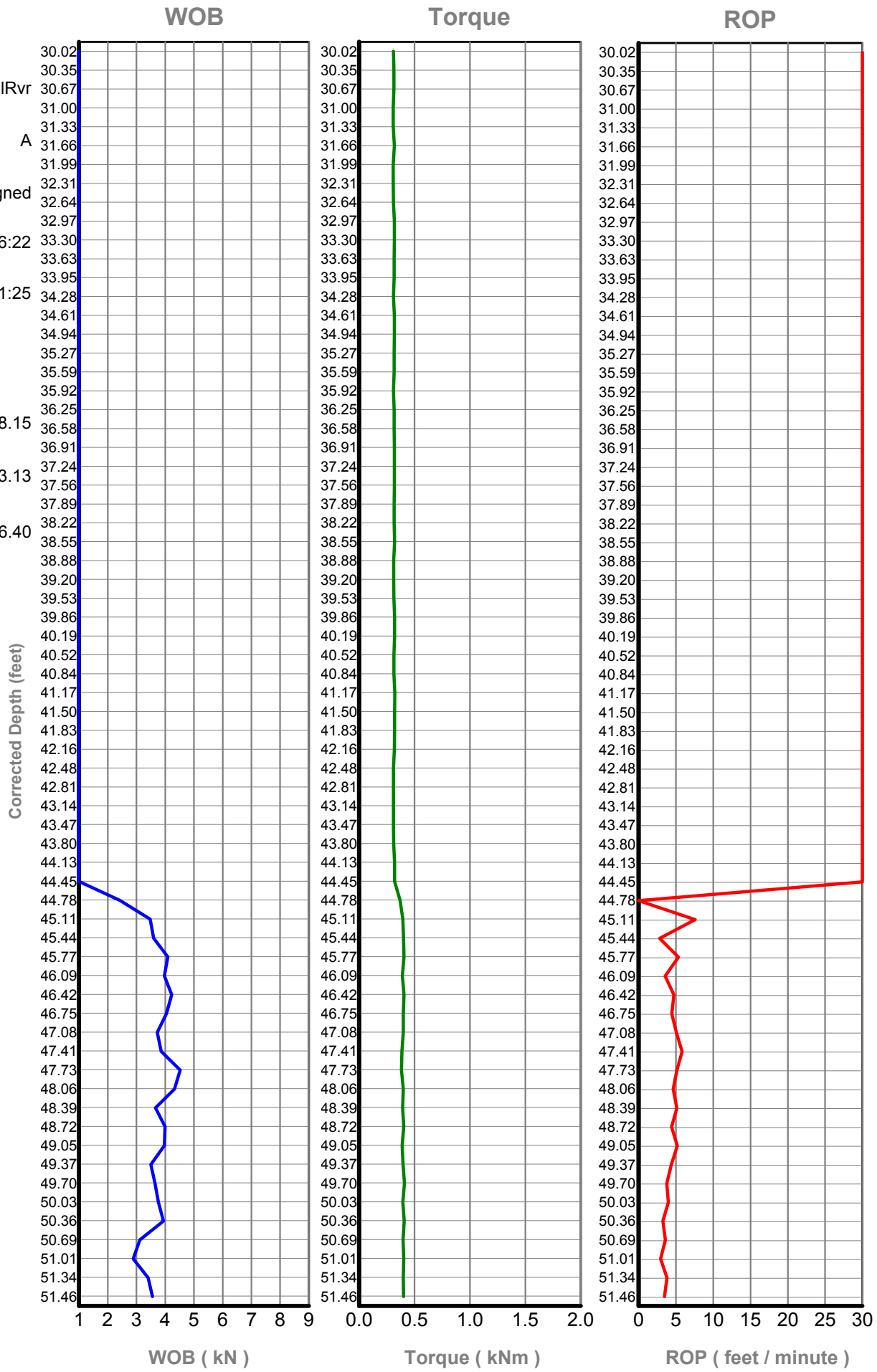
**End Date:**
4/20/2015 16:01:25

**Operator Note:**
'6.4 6.4 b Rock'

**Northing:**
368,868.15

**Easting:**
253,263.13

**Tide (feet):**
6.40



## Hole: E39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:00:41 | 36.42 | 30.12 | 506 | 1.65 | 0.25 | 27.7 |
| 4/20/2015 16:00:42 | 36.75 | 30.45 | 515 | 1.63 | 0.25 | 28.2 |
| 4/20/2015 16:00:42 | 37.07 | 30.77 | 512 | 1.64 | 0.24 | 28.0 |
| 4/20/2015 16:00:43 | 37.40 | 31.10 | 506 | 1.60 | 0.25 | 27.7 |
| 4/20/2015 16:00:44 | 37.73 | 31.43 | 515 | 1.64 | 0.25 | 28.2 |
| 4/20/2015 16:00:45 | 38.06 | 31.76 | 513 | 1.55 | 0.25 | 28.0 |
| 4/20/2015 16:00:46 | 38.39 | 32.09 | 509 | 1.64 | 0.25 | 27.9 |
| 4/20/2015 16:00:46 | 38.71 | 32.41 | 507 | 1.62 | 0.25 | 27.7 |
| 4/20/2015 16:00:47 | 39.04 | 32.74 | 507 | 1.65 | 0.25 | 27.7 |
| 4/20/2015 16:00:48 | 39.37 | 33.07 | 503 | 1.66 | 0.25 | 27.5 |
| 4/20/2015 16:00:48 | 39.70 | 33.40 | 509 | 1.64 | 0.25 | 27.8 |
| 4/20/2015 16:00:49 | 40.03 | 33.73 | 520 | 1.64 | 0.25 | 28.4 |
| 4/20/2015 16:00:50 | 40.35 | 34.05 | 509 | 1.64 | 0.25 | 27.8 |
| 4/20/2015 16:00:50 | 40.68 | 34.38 | 512 | 1.68 | 0.25 | 28.0 |
| 4/20/2015 16:00:51 | 41.01 | 34.71 | 512 | 1.64 | 0.26 | 28.0 |
| 4/20/2015 16:00:52 | 41.34 | 35.04 | 509 | 1.64 | 0.25 | 27.8 |
| 4/20/2015 16:00:52 | 41.67 | 35.37 | 515 | 1.65 | 0.25 | 28.2 |
| 4/20/2015 16:00:53 | 41.99 | 35.69 | 509 | 1.64 | 0.25 | 27.8 |
| 4/20/2015 16:00:54 | 42.32 | 36.02 | 509 | 1.64 | 0.25 | 27.8 |
| 4/20/2015 16:00:54 | 42.65 | 36.35 | 512 | 1.65 | 0.25 | 28.0 |
| 4/20/2015 16:00:56 | 42.98 | 36.68 | 506 | 1.65 | 0.25 | 27.7 |
| 4/20/2015 16:00:56 | 43.31 | 37.01 | 506 | 1.62 | 0.25 | 27.7 |
| 4/20/2015 16:00:57 | 43.64 | 37.34 | 506 | 1.64 | 0.25 | 27.7 |
| 4/20/2015 16:00:58 | 43.96 | 37.66 | 509 | 1.65 | 0.25 | 27.8 |
| 4/20/2015 16:00:58 | 44.29 | 37.99 | 504 | 1.64 | 0.25 | 27.6 |
| 4/20/2015 16:00:59 | 44.62 | 38.32 | 504 | 1.64 | 0.25 | 27.6 |
| 4/20/2015 16:01:00 | 44.95 | 38.65 | 506 | 1.73 | 0.25 | 27.7 |
| 4/20/2015 16:01:13 | 45.28 | 38.98 | 74 | 1.73 | 1.03 | 4.1 |
| 4/20/2015 16:01:14 | 45.60 | 39.30 | 183 | 1.79 | 0.92 | 10.0 |
| 4/20/2015 16:01:21 | 45.93 | 39.63 | 40 | 1.85 | 1.10 | 2.2 |
| 4/20/2015 16:01:31 | 46.26 | 39.96 | 32 | 1.85 | 0.94 | 1.7 |
| 4/20/2015 16:01:41 | 46.59 | 40.29 | 32 | 1.87 | 0.91 | 1.7 |
| 4/20/2015 16:01:50 | 46.92 | 40.62 | 43 | 1.85 | 1.11 | 2.4 |
| 4/20/2015 16:01:59 | 47.24 | 40.94 | 38 | 1.85 | 0.98 | 2.1 |
| 4/20/2015 16:02:07 | 47.57 | 41.27 | 41 | 1.86 | 1.10 | 2.2 |
| 4/20/2015 16:02:17 | 47.90 | 41.60 | 37 | 1.87 | 1.18 | 2.0 |
| 4/20/2015 16:02:25 | 48.23 | 41.93 | 48 | 1.83 | 1.05 | 2.6 |
| 4/20/2015 16:02:31 | 48.56 | 42.26 | 59 | 1.85 | 1.07 | 3.2 |
| 4/20/2015 16:02:34 | 48.73 | 42.43 | 60 | 1.46 | 1.10 | 3.3 |

## E39 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 15:58:45

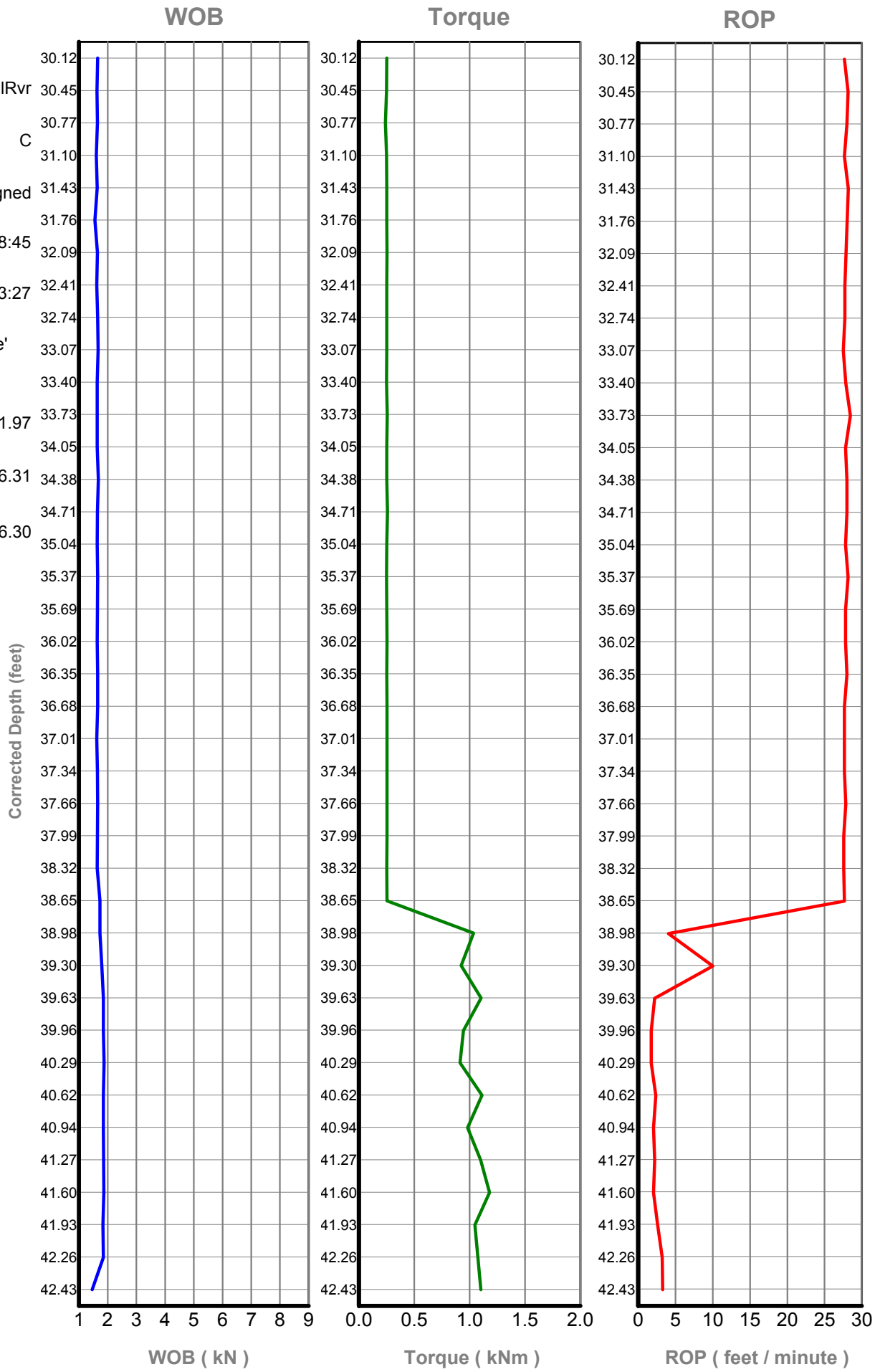
**End Date:**
4/20/2015 16:03:27

**Operator Note:**
'6.3 6.1 c Auto Complete'

**Northing:**
368,921.97

**Easting:**
253,326.31

**Tide (feet):**
6.30



## Hole: E4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 3:21:40 | 37.73 | 30.13 | 396 | 1.49 | 0.13 | 21.7 |
| 4/21/2015 3:21:41 | 38.06 | 30.46 | 394 | 1.49 | 0.13 | 21.5 |
| 4/21/2015 3:21:42 | 38.39 | 30.79 | 388 | 1.47 | 0.13 | 21.2 |
| 4/21/2015 3:21:43 | 38.71 | 31.11 | 393 | 1.48 | 0.13 | 21.5 |
| 4/21/2015 3:21:44 | 39.04 | 31.44 | 390 | 1.58 | 0.13 | 21.3 |
| 4/21/2015 3:21:45 | 39.37 | 31.77 | 392 | 1.50 | 0.13 | 21.4 |
| 4/21/2015 3:21:46 | 39.70 | 32.10 | 389 | 1.48 | 0.13 | 21.3 |
| 4/21/2015 3:22:25 | 40.03 | 32.43 | 26 | 1.59 | 1.09 | 1.4 |
| 4/21/2015 3:22:38 | 40.35 | 32.75 | 12 | 1.57 | 1.03 | 0.6 |
| 4/21/2015 3:22:40 | 40.68 | 33.08 | 176 | 1.60 | 1.08 | 9.6 |
| 4/21/2015 3:22:43 | 41.01 | 33.41 | 145 | 1.63 | 1.26 | 7.9 |
| 4/21/2015 3:23:15 | 41.34 | 33.74 | 17 | 1.58 | 0.95 | 0.9 |
| 4/21/2015 3:23:19 | 41.67 | 34.07 | 9 | 1.59 | 0.96 | 0.5 |
| 4/21/2015 3:23:31 | 41.99 | 34.39 | 0 | 1.57 | 1.38 | 0.0 |
| 4/21/2015 3:23:39 | 42.32 | 34.72 | 0 | 1.59 | 1.30 | 0.0 |
| 4/21/2015 3:23:54 | 42.65 | 35.05 | 0 | 1.48 | 0.82 | 0.0 |
| 4/21/2015 3:23:56 | 42.98 | 35.38 | 168 | 1.66 | 1.50 | 9.2 |
| 4/21/2015 3:24:30 | 43.31 | 35.71 | 35 | 1.61 | 1.06 | 1.9 |
| 4/21/2015 3:24:32 | 43.64 | 36.04 | 159 | 1.63 | 1.01 | 8.7 |
| 4/21/2015 3:24:41 | 43.96 | 36.36 | 42 | 1.28 | 1.20 | 2.3 |
| 4/21/2015 3:24:58 | 44.29 | 36.69 | 20 | 1.57 | 1.24 | 1.1 |
| 4/21/2015 3:25:18 | 44.62 | 37.02 | 6 | 1.49 | 0.86 | 0.3 |
| 4/21/2015 3:25:32 | 44.95 | 37.35 | 0 | 1.53 | 0.97 | 0.0 |
| 4/21/2015 3:25:34 | 45.28 | 37.68 | 99 | 1.61 | 1.03 | 5.4 |
| 4/21/2015 3:25:50 | 45.60 | 38.00 | 87 | 1.62 | 0.97 | 4.7 |
| 4/21/2015 3:25:53 | 45.93 | 38.33 | 140 | 1.62 | 1.07 | 7.6 |
| 4/21/2015 3:26:13 | 46.26 | 38.66 | 46 | 1.61 | 0.98 | 2.5 |
| 4/21/2015 3:26:15 | 46.59 | 38.99 | 175 | 1.59 | 0.99 | 9.6 |
| 4/21/2015 3:26:47 | 46.92 | 39.32 | 118 | 1.55 | 0.91 | 6.4 |
| 4/21/2015 3:26:48 | 47.24 | 39.64 | 182 | 1.61 | 1.06 | 9.9 |
| 4/21/2015 3:26:58 | 47.57 | 39.97 | 41 | 1.59 | 1.00 | 2.2 |
| 4/21/2015 3:27:00 | 47.90 | 40.30 | 168 | 1.62 | 1.13 | 9.2 |
| 4/21/2015 3:27:03 | 48.23 | 40.63 | 135 | 1.60 | 1.15 | 7.4 |
| 4/21/2015 3:27:05 | 48.56 | 40.96 | 143 | 1.61 | 1.04 | 7.8 |
| 4/21/2015 3:27:07 | 48.88 | 41.28 | 156 | 1.58 | 1.00 | 8.5 |
| 4/21/2015 3:28:03 | 49.21 | 41.61 | 91 | 1.62 | 1.06 | 5.0 |
| 4/21/2015 3:28:06 | 49.54 | 41.94 | 149 | 1.59 | 1.20 | 8.2 |
| 4/21/2015 3:28:08 | 49.87 | 42.27 | 158 | 1.62 | 1.09 | 8.7 |
| 4/21/2015 3:28:10 | 50.20 | 42.60 | 168 | 1.63 | 1.01 | 9.2 |
| 4/21/2015 3:28:56 | 50.53 | 42.93 | 35 | 1.60 | 1.12 | 1.9 |
| 4/21/2015 3:28:58 | 50.85 | 43.25 | 140 | 1.62 | 1.15 | 7.7 |
| 4/21/2015 3:29:00 | 51.18 | 43.58 | 175 | 1.60 | 1.17 | 9.6 |
| 4/21/2015 3:29:02 | 51.51 | 43.91 | 176 | 1.60 | 1.08 | 9.6 |
| 4/21/2015 3:29:04 | 51.84 | 44.24 | 172 | 1.62 | 0.98 | 9.4 |
| 4/21/2015 3:29:07 | 52.17 | 44.57 | 150 | 1.62 | 1.09 | 8.2 |
| 4/21/2015 3:30:28 | 52.49 | 44.89 | 96 | 1.64 | 1.20 | 5.2 |
| 4/21/2015 3:30:31 | 52.82 | 45.22 | 138 | 1.63 | 1.47 | 7.5 |
| 4/21/2015 3:30:33 | 53.15 | 45.55 | 148 | 1.57 | 1.09 | 8.1 |
| 4/21/2015 3:30:35 | 53.48 | 45.88 | 176 | 1.59 | 0.90 | 9.6 |
| 4/21/2015 3:30:36 | 53.81 | 46.21 | 202 | 1.57 | 0.93 | 11.0 |
| 4/21/2015 3:30:38 | 54.13 | 46.53 | 192 | 1.61 | 0.94 | 10.5 |
| 4/21/2015 3:30:41 | 54.46 | 46.86 | 184 | 1.60 | 0.95 | 10.1 |
| 4/21/2015 3:30:53 | 54.79 | 47.19 | 30 | 1.59 | 0.98 | 1.6 |
| 4/21/2015 3:30:57 | 55.12 | 47.52 | 80 | 1.66 | 0.96 | 4.4 |
| 4/21/2015 3:31:01 | 55.45 | 47.85 | 101 | 1.66 | 1.01 | 5.5 |
| 4/21/2015 3:31:05 | 55.77 | 48.17 | 89 | 1.66 | 1.06 | 4.8 |
| 4/21/2015 3:31:10 | 56.10 | 48.50 | 71 | 1.66 | 1.05 | 3.9 |
| 4/21/2015 3:31:16 | 56.43 | 48.83 | 61 | 1.62 | 1.12 | 3.3 |
| 4/21/2015 3:31:21 | 56.76 | 49.16 | 57 | 1.66 | 1.11 | 3.1 |
| 4/21/2015 3:31:28 | 57.09 | 49.49 | 50 | 1.63 | 1.12 | 2.7 |
| 4/21/2015 3:31:31 | 57.22 | 49.62 | 55 | 1.65 | 1.12 | 3.0 |

## E4 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 3:19:20

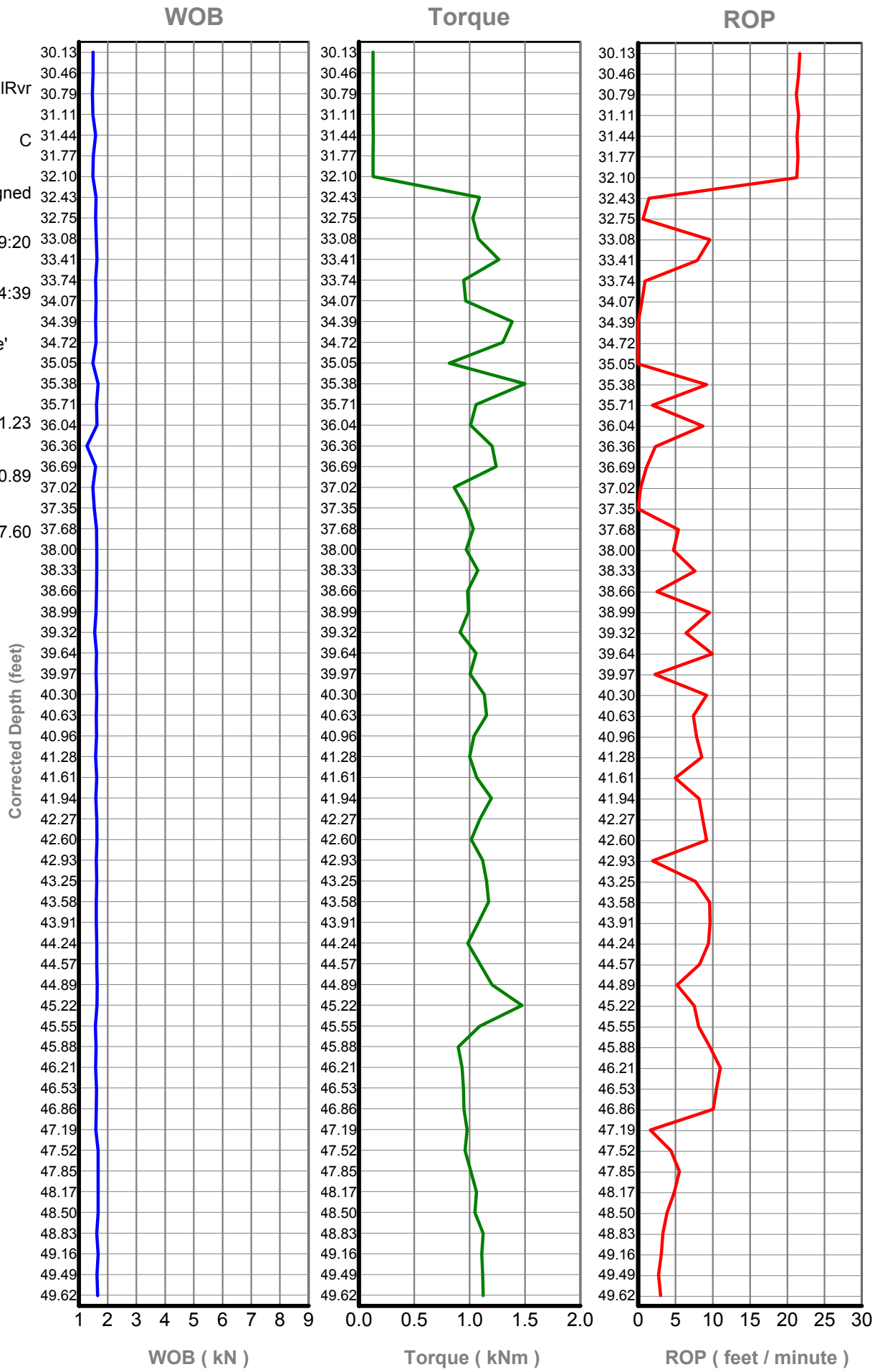
**End Date:**
4/21/2015 3:34:39

**Operator Note:**
'7.6 6.7 c Auto Complete'

**Northing:**
368,891.23

**Easting:**
253,050.89

**Tide (feet):**
7.60



## Hole: E40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:30:57 | 34.78 | 30.08 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:30:57 | 35.11 | 30.41 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:30:58 | 35.43 | 30.73 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:30:58 | 35.76 | 31.06 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:30:58 | 36.09 | 31.39 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:30:59 | 36.42 | 31.72 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:30:59 | 36.75 | 32.05 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:30:59 | 37.07 | 32.37 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:31:00 | 37.40 | 32.70 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:31:00 | 37.73 | 33.03 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:31:00 | 38.06 | 33.36 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:31:01 | 38.39 | 33.69 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:31:01 | 38.71 | 34.01 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:31:02 | 39.04 | 34.34 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:02 | 39.37 | 34.67 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:02 | 39.70 | 35.00 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:03 | 40.03 | 35.33 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:31:03 | 40.35 | 35.65 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:31:03 | 40.68 | 35.98 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 11:31:04 | 41.01 | 36.31 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:31:04 | 41.34 | 36.64 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:31:04 | 41.67 | 36.97 | 1,041 | 0.43 | 0.46 | 57.0 |
| 4/20/2015 11:31:05 | 41.99 | 37.29 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:05 | 42.32 | 37.62 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:05 | 42.65 | 37.95 | 1,045 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:31:06 | 42.98 | 38.28 | 1,048 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:06 | 43.31 | 38.61 | 1,048 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:31:06 | 43.64 | 38.94 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 11:31:07 | 43.96 | 39.26 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 11:31:07 | 44.29 | 39.59 | 1,035 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 11:31:07 | 44.62 | 39.92 | 1,015 | 0.43 | 0.46 | 55.5 |
| 4/20/2015 11:31:28 | 44.95 | 40.25 | 137 | 0.43 | 0.46 | 7.5 |
| 4/20/2015 11:31:37 | 45.28 | 40.58 | 9 | 0.43 | 0.46 | 0.5 |
| 4/20/2015 11:31:39 | 45.60 | 40.90 | 104 | 0.43 | 0.46 | 5.7 |
| 4/20/2015 11:31:43 | 45.93 | 41.23 | 88 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 11:31:46 | 46.26 | 41.56 | 108 | 0.43 | 0.46 | 5.9 |
| 4/20/2015 11:31:52 | 46.59 | 41.89 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 11:31:56 | 46.92 | 42.22 | 72 | 0.43 | 0.46 | 3.9 |
| 4/20/2015 11:32:03 | 47.24 | 42.54 | 46 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 11:32:09 | 47.57 | 42.87 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 11:32:13 | 47.90 | 43.20 | 92 | 0.43 | 0.46 | 5.0 |
| 4/20/2015 11:32:18 | 48.23 | 43.53 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 11:32:25 | 48.56 | 43.86 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 11:32:31 | 48.88 | 44.18 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 11:32:37 | 49.21 | 44.51 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 11:32:38 | 49.27 | 44.57 | 52 | 0.43 | 0.46 | 2.9 |

## E40 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 11:29:09

**End Date:**
4/20/2015 11:33:42

**Operator Note:**
'4.7 4.6 b Rock @ 48"

**Northing:**
368,976.07

**Easting:**
253,396.40

**Tide (feet):**
4.70



## Hole: E41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:36:00 | 35.11 | 30.21 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:36:00 | 35.43 | 30.53 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:36:01 | 35.76 | 30.86 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:36:01 | 36.09 | 31.19 | 1,066 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 11:36:01 | 36.42 | 31.52 | 1,066 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 11:36:01 | 36.75 | 31.85 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:36:02 | 37.07 | 32.17 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:36:03 | 37.40 | 32.50 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:36:02 | 37.73 | 32.83 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:36:03 | 38.06 | 33.16 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:36:04 | 38.39 | 33.49 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:36:03 | 38.71 | 33.81 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:36:04 | 39.04 | 34.14 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 11:36:05 | 39.37 | 34.47 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 11:36:05 | 39.70 | 34.80 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:36:05 | 40.03 | 35.13 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:36:06 | 40.35 | 35.45 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:36:06 | 40.68 | 35.78 | 1,074 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 11:36:06 | 41.01 | 36.11 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:36:07 | 41.34 | 36.44 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:36:07 | 41.67 | 36.77 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:36:07 | 41.99 | 37.09 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:36:07 | 42.32 | 37.42 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 11:36:08 | 42.65 | 37.75 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:36:08 | 42.98 | 38.08 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:36:08 | 43.31 | 38.41 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:36:09 | 43.64 | 38.74 | 1,083 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 11:36:09 | 43.96 | 39.06 | 1,083 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 11:36:09 | 44.29 | 39.39 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 11:36:10 | 44.62 | 39.72 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:36:10 | 44.95 | 40.05 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:36:10 | 45.28 | 40.38 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:36:11 | 45.60 | 40.70 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:36:25 | 45.93 | 41.03 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 11:36:31 | 46.26 | 41.36 | 49 | 0.43 | 0.46 | 2.7 |
| 4/20/2015 11:36:36 | 46.59 | 41.69 | 69 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 11:37:25 | 46.92 | 42.02 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 11:37:29 | 47.24 | 42.34 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 11:37:32 | 47.57 | 42.67 | 101 | 0.43 | 0.46 | 5.5 |
| 4/20/2015 11:37:46 | 47.90 | 43.00 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 11:37:53 | 48.23 | 43.33 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 11:37:58 | 48.56 | 43.66 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 11:38:04 | 48.88 | 43.98 | 72 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 11:38:08 | 49.21 | 44.31 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:38:12 | 49.54 | 44.64 | 96 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 11:38:16 | 49.87 | 44.97 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 11:38:20 | 50.20 | 45.30 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 11:38:24 | 50.53 | 45.63 | 83 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 11:38:28 | 50.85 | 45.95 | 85 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:38:33 | 51.18 | 46.28 | 71 | 0.43 | 0.46 | 3.9 |
| 4/20/2015 11:38:37 | 51.51 | 46.61 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:38:42 | 51.84 | 46.94 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 11:38:46 | 52.17 | 47.27 | 89 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 11:38:49 | 52.49 | 47.59 | 104 | 0.43 | 0.46 | 5.7 |
| 4/20/2015 11:38:53 | 52.82 | 47.92 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:38:58 | 53.15 | 48.25 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:39:21 | 53.48 | 48.58 | 11 | 0.43 | 0.46 | 0.6 |
| 4/20/2015 11:39:25 | 53.81 | 48.91 | 86 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 11:39:30 | 54.13 | 49.23 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 11:39:36 | 54.46 | 49.56 | 65 | 0.43 | 0.46 | 3.6 |
| 4/20/2015 11:39:40 | 54.79 | 49.89 | 81 | 0.43 | 0.46 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 11:39:45 | 55.12 | 50.22 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 | 11:39:49 | 55.45 | 50.55 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 | 11:39:53 | 55.77 | 50.87 | 78 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 | 11:40:00 | 56.10 | 51.20 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 | 11:40:04 | 56.43 | 51.53 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 | 11:40:09 | 56.76 | 51.86 | 78 | 0.43 | 0.46 | 4.2 |
| 4/20/2015 | 11:40:14 | 57.09 | 52.19 | 69 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 | 11:40:19 | 57.41 | 52.51 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 | 11:40:23 | 57.74 | 52.84 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 | 11:40:27 | 58.07 | 53.17 | 85 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 | 11:40:32 | 58.40 | 53.50 | 81 | 0.43 | 0.46 | 4.4 |
| 4/20/2015 | 11:40:37 | 58.73 | 53.83 | 63 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 11:40:43 | 59.06 | 54.16 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 | 11:40:48 | 59.38 | 54.48 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 | 11:40:53 | 59.71 | 54.81 | 78 | 0.43 | 0.46 | 4.3 |

## E41 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 11:34:39

**End Date:**
4/20/2015 12:03:45

**Operator Note:**
'4.9 4.6 b Auto Complete'

**Northing:**
369,013.39

**Easting:**
253,442.13

**Tide (feet):**
4.90



## Hole: E42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:46:32 | 35.43 | 30.23 | 526 | 1.71 | 0.27 | 28.8 |
| 4/20/2015 11:46:33 | 35.76 | 30.56 | 526 | 1.72 | 0.27 | 28.8 |
| 4/20/2015 11:46:34 | 36.09 | 30.89 | 526 | 1.72 | 0.27 | 28.8 |
| 4/20/2015 11:46:35 | 36.42 | 31.22 | 529 | 1.72 | 0.27 | 28.9 |
| 4/20/2015 11:46:35 | 36.75 | 31.55 | 526 | 1.71 | 0.27 | 28.8 |
| 4/20/2015 11:46:36 | 37.07 | 31.87 | 520 | 1.70 | 0.27 | 28.5 |
| 4/20/2015 11:46:37 | 37.40 | 32.20 | 523 | 1.72 | 0.27 | 28.6 |
| 4/20/2015 11:46:37 | 37.73 | 32.53 | 520 | 1.72 | 0.27 | 28.4 |
| 4/20/2015 11:46:38 | 38.06 | 32.86 | 523 | 1.72 | 0.27 | 28.6 |
| 4/20/2015 11:46:39 | 38.39 | 33.19 | 526 | 1.72 | 0.27 | 28.8 |
| 4/20/2015 11:46:39 | 38.71 | 33.51 | 526 | 1.71 | 0.27 | 28.8 |
| 4/20/2015 11:46:40 | 39.04 | 33.84 | 523 | 1.72 | 0.27 | 28.6 |
| 4/20/2015 11:46:41 | 39.37 | 34.17 | 529 | 1.71 | 0.27 | 28.9 |
| 4/20/2015 11:46:41 | 39.70 | 34.50 | 526 | 1.72 | 0.27 | 28.8 |
| 4/20/2015 11:46:42 | 40.03 | 34.83 | 523 | 1.70 | 0.27 | 28.6 |
| 4/20/2015 11:46:43 | 40.35 | 35.15 | 523 | 1.72 | 0.27 | 28.6 |
| 4/20/2015 11:46:43 | 40.68 | 35.48 | 520 | 1.70 | 0.26 | 28.4 |
| 4/20/2015 11:46:44 | 41.01 | 35.81 | 520 | 1.71 | 0.26 | 28.4 |
| 4/20/2015 11:46:45 | 41.34 | 36.14 | 526 | 1.70 | 0.27 | 28.8 |
| 4/20/2015 11:46:46 | 41.67 | 36.47 | 523 | 1.72 | 0.26 | 28.6 |
| 4/20/2015 11:46:46 | 41.99 | 36.79 | 523 | 1.72 | 0.26 | 28.6 |
| 4/20/2015 11:46:47 | 42.32 | 37.12 | 523 | 1.72 | 0.27 | 28.6 |
| 4/20/2015 11:46:48 | 42.65 | 37.45 | 523 | 1.72 | 0.26 | 28.6 |
| 4/20/2015 11:46:48 | 42.98 | 37.78 | 523 | 1.72 | 0.26 | 28.6 |
| 4/20/2015 11:46:49 | 43.31 | 38.11 | 523 | 1.67 | 0.27 | 28.6 |
| 4/20/2015 11:46:50 | 43.64 | 38.44 | 521 | 1.73 | 0.26 | 28.5 |
| 4/20/2015 11:46:50 | 43.96 | 38.76 | 521 | 1.72 | 0.26 | 28.5 |
| 4/20/2015 11:46:51 | 44.29 | 39.09 | 521 | 1.77 | 0.27 | 28.5 |
| 4/20/2015 11:47:28 | 44.62 | 39.42 | 14 | 1.97 | 1.47 | 0.8 |
| 4/20/2015 11:47:39 | 44.95 | 39.75 | 34 | 1.81 | 1.20 | 1.9 |
| 4/20/2015 11:47:41 | 45.28 | 40.08 | 144 | 1.83 | 1.21 | 7.9 |
| 4/20/2015 11:47:45 | 45.60 | 40.40 | 95 | 1.95 | 1.22 | 5.2 |
| 4/20/2015 11:47:53 | 45.93 | 40.73 | 49 | 1.90 | 1.20 | 2.7 |
| 4/20/2015 11:48:06 | 46.26 | 41.06 | 32 | 1.98 | 1.20 | 1.7 |
| 4/20/2015 11:48:13 | 46.59 | 41.39 | 79 | 1.95 | 1.21 | 4.3 |
| 4/20/2015 11:48:16 | 46.92 | 41.72 | 136 | 1.94 | 1.22 | 7.4 |
| 4/20/2015 11:48:19 | 47.24 | 42.04 | 113 | 1.99 | 1.35 | 6.2 |
| 4/20/2015 11:48:28 | 47.57 | 42.37 | 32 | 1.97 | 1.20 | 1.7 |
| 4/20/2015 11:48:41 | 47.90 | 42.70 | 29 | 1.98 | 1.12 | 1.6 |
| 4/20/2015 11:48:52 | 48.23 | 43.03 | 34 | 1.97 | 1.20 | 1.9 |
| 4/20/2015 11:49:01 | 48.56 | 43.36 | 43 | 1.96 | 1.19 | 2.4 |
| 4/20/2015 11:49:09 | 48.88 | 43.68 | 43 | 1.95 | 1.10 | 2.4 |
| 4/20/2015 11:49:17 | 49.21 | 44.01 | 38 | 1.96 | 1.20 | 2.1 |

## E42 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 11:44:27

**End Date:**
4/20/2015 11:52:08

**Operator Note:**
'5.2 4.2c Auto Complete'

**Northing:**
369,060.84

**Easting:**
253,500.22

**Tide (feet):**
5.20



## Hole: E43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 1:15:40 | 36.75 | 30.05 | 943 | 1.93 | 0.22 | 51.6 |
| 4/20/2015 1:15:40 | 37.07 | 30.37 | 952 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 1:15:41 | 37.40 | 30.70 | 949 | 1.93 | 0.22 | 51.9 |
| 4/20/2015 1:15:41 | 37.73 | 31.03 | 962 | 1.93 | 0.22 | 52.6 |
| 4/20/2015 1:15:42 | 38.06 | 31.36 | 962 | 1.93 | 0.22 | 52.6 |
| 4/20/2015 1:15:42 | 38.39 | 31.69 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:42 | 38.71 | 32.01 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 1:15:43 | 39.04 | 32.34 | 954 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 1:15:43 | 39.37 | 32.67 | 945 | 1.93 | 0.22 | 51.7 |
| 4/20/2015 1:15:43 | 39.70 | 33.00 | 954 | 1.93 | 0.22 | 52.1 |
| 4/20/2015 1:15:44 | 40.03 | 33.33 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 1:15:44 | 40.35 | 33.65 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 1:15:44 | 40.68 | 33.98 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:45 | 41.01 | 34.31 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:45 | 41.34 | 34.64 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:45 | 41.67 | 34.97 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:46 | 41.99 | 35.29 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:46 | 42.32 | 35.62 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:47 | 42.65 | 35.95 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:47 | 42.98 | 36.28 | 945 | 1.93 | 0.22 | 51.7 |
| 4/20/2015 1:15:47 | 43.31 | 36.61 | 942 | 1.93 | 0.22 | 51.5 |
| 4/20/2015 1:15:48 | 43.64 | 36.94 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 1:15:49 | 43.96 | 37.26 | 951 | 1.93 | 0.22 | 52.0 |
| 4/20/2015 1:15:49 | 44.29 | 37.59 | 948 | 1.93 | 0.22 | 51.8 |
| 4/20/2015 1:15:49 | 44.62 | 37.92 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:50 | 44.95 | 38.25 | 957 | 1.93 | 0.22 | 52.3 |
| 4/20/2015 1:15:50 | 45.28 | 38.58 | 952 | 1.93 | 0.22 | 52.1 |
| 4/20/2015 1:15:50 | 45.60 | 38.90 | 952 | 1.93 | 0.22 | 52.1 |
| 4/20/2015 1:15:51 | 45.93 | 39.23 | 958 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 1:15:51 | 46.26 | 39.56 | 958 | 1.93 | 0.22 | 52.4 |
| 4/20/2015 1:15:51 | 46.59 | 39.89 | 955 | 1.93 | 0.22 | 52.2 |
| 4/20/2015 1:16:19 | 46.92 | 40.22 | 12 | 1.93 | 0.22 | 0.6 |
| 4/20/2015 1:16:20 | 47.24 | 40.54 | 51 | 1.93 | 0.22 | 2.8 |
| 4/20/2015 1:16:20 | 47.57 | 40.87 | 194 | 1.93 | 0.22 | 10.6 |
| 4/20/2015 1:16:21 | 47.90 | 41.20 | 335 | 1.93 | 0.22 | 18.3 |
| 4/20/2015 1:16:22 | 48.23 | 41.53 | 520 | 1.93 | 0.22 | 28.4 |
| 4/20/2015 1:16:27 | 48.56 | 41.86 | 70 | 1.93 | 0.22 | 3.8 |
| 4/20/2015 1:16:38 | 48.88 | 42.18 | 26 | 1.93 | 0.22 | 1.4 |
| 4/20/2015 1:16:42 | 49.21 | 42.51 | 83 | 1.93 | 0.22 | 4.5 |
| 4/20/2015 1:16:44 | 49.54 | 42.84 | 139 | 1.93 | 0.22 | 7.6 |
| 4/20/2015 1:16:46 | 49.87 | 43.17 | 207 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 1:16:58 | 50.20 | 43.50 | 49 | 1.93 | 0.22 | 2.7 |
| 4/20/2015 1:17:03 | 50.53 | 43.83 | 70 | 1.93 | 0.22 | 3.8 |
| 4/20/2015 1:17:09 | 50.85 | 44.15 | 55 | 1.93 | 0.22 | 3.0 |
| 4/20/2015 1:17:15 | 51.18 | 44.48 | 64 | 1.93 | 0.22 | 3.5 |
| 4/20/2015 1:17:21 | 51.51 | 44.81 | 53 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 1:17:22 | 51.52 | 44.82 | 53 | 1.93 | 0.22 | 2.9 |

## E43 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 1:13:16

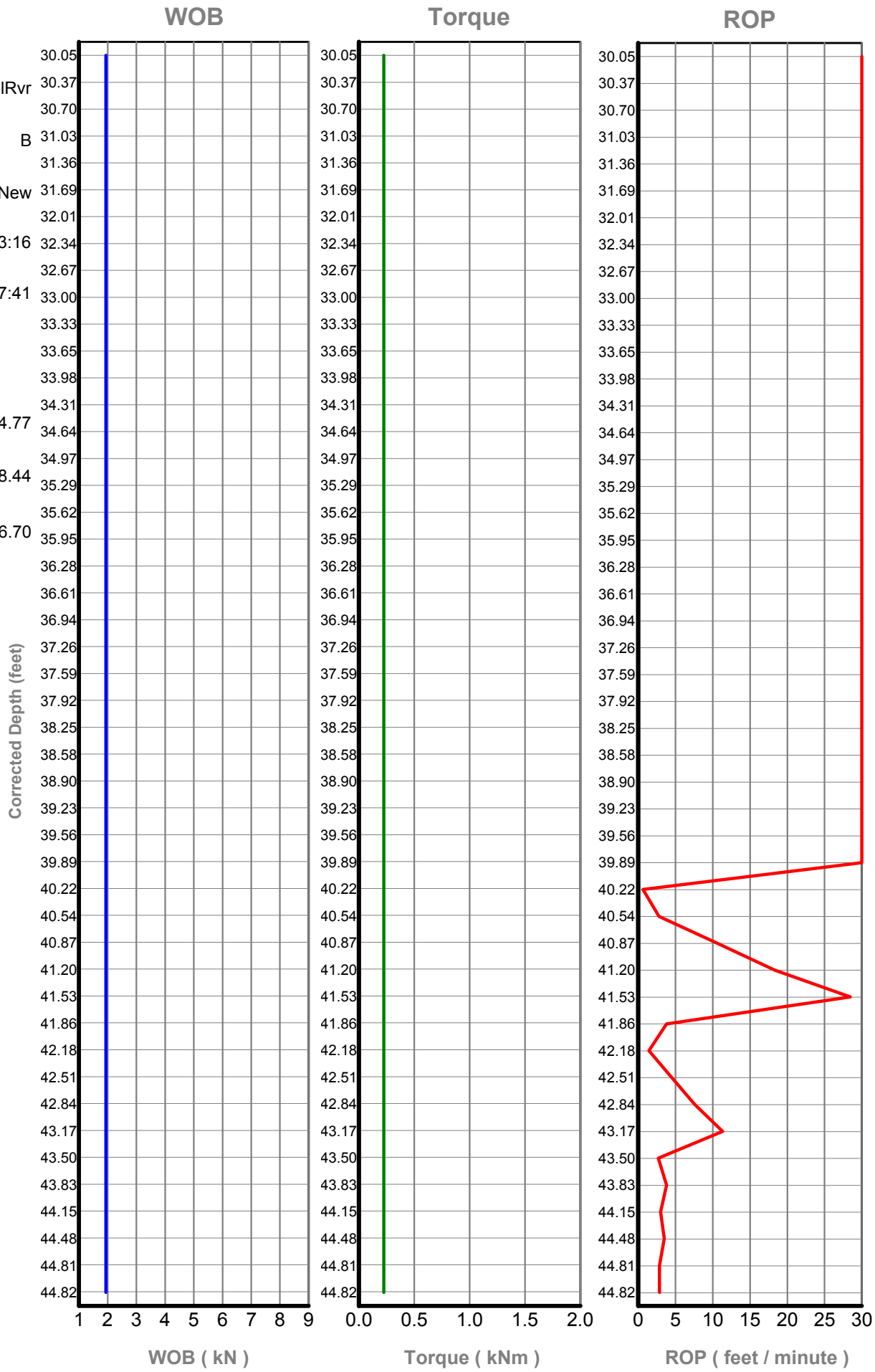
**End Date:**
4/20/2015 1:17:41

**Operator Note:**
'6.7 '6.4 6.5 b Auto Complete'

**Northing:**
369,104.77

**Easting:**
253,558.44

**Tide (feet):**
6.70



## Hole: E44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 1:01:03 | 36.42 | 30.02 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:04 | 36.75 | 30.35 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:04 | 37.07 | 30.67 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 1:01:04 | 37.40 | 31.00 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 1:01:05 | 37.73 | 31.33 | 977 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 1:01:05 | 38.06 | 31.66 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 1:01:05 | 38.39 | 31.99 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:06 | 38.71 | 32.31 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 1:01:06 | 39.04 | 32.64 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 1:01:06 | 39.37 | 32.97 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:07 | 39.70 | 33.30 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:07 | 40.03 | 33.63 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:07 | 40.35 | 33.95 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 1:01:08 | 40.68 | 34.28 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 1:01:08 | 41.01 | 34.61 | 981 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 1:01:08 | 41.34 | 34.94 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 1:01:09 | 41.67 | 35.27 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 1:01:09 | 41.99 | 35.59 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 1:01:10 | 42.32 | 35.92 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 1:01:10 | 42.65 | 36.25 | 976 | 1.93 | 0.22 | 53.4 |
| 4/20/2015 1:01:10 | 42.98 | 36.58 | 993 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 1:01:11 | 43.31 | 36.91 | 993 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 1:01:11 | 43.64 | 37.24 | 975 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 1:01:11 | 43.96 | 37.56 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 1:01:12 | 44.29 | 37.89 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 1:01:13 | 44.62 | 38.22 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 1:01:13 | 44.95 | 38.55 | 979 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 1:01:13 | 45.28 | 38.88 | 969 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 1:01:14 | 45.60 | 39.20 | 969 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 1:01:14 | 45.93 | 39.53 | 971 | 1.93 | 0.22 | 53.1 |
| 4/20/2015 1:01:14 | 46.26 | 39.86 | 968 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 1:01:15 | 46.59 | 40.19 | 968 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 1:01:15 | 46.92 | 40.52 | 968 | 1.93 | 0.22 | 53.0 |
| 4/20/2015 1:01:51 | 47.24 | 40.84 | 23 | 1.93 | 0.22 | 1.2 |
| 4/20/2015 1:01:58 | 47.57 | 41.17 | 52 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 1:01:59 | 47.90 | 41.50 | 136 | 1.93 | 0.22 | 7.4 |
| 4/20/2015 1:01:59 | 48.23 | 41.83 | 203 | 1.93 | 0.22 | 11.1 |
| 4/20/2015 1:02:01 | 48.56 | 42.16 | 376 | 1.93 | 0.22 | 20.6 |
| 4/20/2015 1:02:02 | 48.88 | 42.48 | 420 | 1.93 | 0.22 | 23.0 |
| 4/20/2015 1:02:03 | 49.21 | 42.81 | 404 | 1.93 | 0.22 | 22.1 |
| 4/20/2015 1:02:04 | 49.54 | 43.14 | 344 | 1.93 | 0.22 | 18.8 |
| 4/20/2015 1:02:05 | 49.87 | 43.47 | 255 | 1.93 | 0.22 | 13.9 |
| 4/20/2015 1:02:07 | 50.20 | 43.80 | 248 | 1.93 | 0.22 | 13.5 |
| 4/20/2015 1:02:07 | 50.53 | 44.13 | 264 | 1.93 | 0.22 | 14.4 |
| 4/20/2015 1:02:08 | 50.85 | 44.45 | 340 | 1.93 | 0.22 | 18.6 |
| 4/20/2015 1:02:09 | 51.18 | 44.78 | 374 | 1.93 | 0.22 | 20.4 |
| 4/20/2015 1:02:11 | 51.51 | 45.11 | 300 | 1.93 | 0.22 | 16.4 |
| 4/20/2015 1:02:13 | 51.84 | 45.44 | 177 | 1.93 | 0.22 | 9.7 |
| 4/20/2015 1:02:15 | 52.17 | 45.77 | 146 | 1.93 | 0.22 | 8.0 |
| 4/20/2015 1:02:18 | 52.49 | 46.09 | 108 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 1:02:22 | 52.82 | 46.42 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 1:02:25 | 53.15 | 46.75 | 122 | 1.93 | 0.22 | 6.7 |
| 4/20/2015 1:02:28 | 53.48 | 47.08 | 143 | 1.93 | 0.22 | 7.8 |
| 4/20/2015 1:02:33 | 53.81 | 47.41 | 50 | 1.93 | 0.22 | 2.7 |
| 4/20/2015 1:02:38 | 54.13 | 47.73 | 92 | 1.93 | 0.22 | 5.0 |
| 4/20/2015 1:02:40 | 54.46 | 48.06 | 119 | 1.93 | 0.22 | 6.5 |
| 4/20/2015 1:02:42 | 54.79 | 48.39 | 188 | 1.93 | 0.22 | 10.3 |
| 4/20/2015 1:02:43 | 55.12 | 48.72 | 213 | 1.93 | 0.22 | 11.6 |
| 4/20/2015 1:02:45 | 55.45 | 49.05 | 236 | 1.93 | 0.22 | 12.9 |
| 4/20/2015 1:02:46 | 55.77 | 49.37 | 236 | 1.93 | 0.22 | 12.9 |
| 4/20/2015 1:02:47 | 56.10 | 49.70 | 256 | 1.93 | 0.22 | 14.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 1:02:51 | 56.43 | 50.03 | 89 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 1:02:56 | 56.76 | 50.36 | 41 | 1.93 | 0.22 | 2.2 |
| 4/20/2015 | 1:02:59 | 57.09 | 50.69 | 89 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 1:03:18 | 57.41 | 51.01 | 18 | 1.93 | 0.22 | 1.0 |
| 4/20/2015 | 1:03:19 | 57.74 | 51.34 | 141 | 1.93 | 0.22 | 7.7 |
| 4/20/2015 | 1:03:22 | 58.07 | 51.67 | 154 | 1.93 | 0.22 | 8.4 |
| 4/20/2015 | 1:03:33 | 58.40 | 52.00 | 23 | 1.93 | 0.22 | 1.3 |
| 4/20/2015 | 1:03:44 | 58.73 | 52.33 | 32 | 1.93 | 0.22 | 1.8 |
| 4/20/2015 | 1:03:49 | 59.06 | 52.66 | 75 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 | 1:08:06 | 59.38 | 52.98 | 17 | 1.93 | 0.22 | 0.9 |
| 4/20/2015 | 1:08:15 | 59.71 | 53.31 | 75 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 | 1:08:19 | 60.04 | 53.64 | 76 | 1.93 | 0.22 | 4.1 |
| 4/20/2015 | 1:08:25 | 60.16 | 53.76 | 3 | 1.93 | 0.22 | 0.2 |

## E44 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 0:56:26

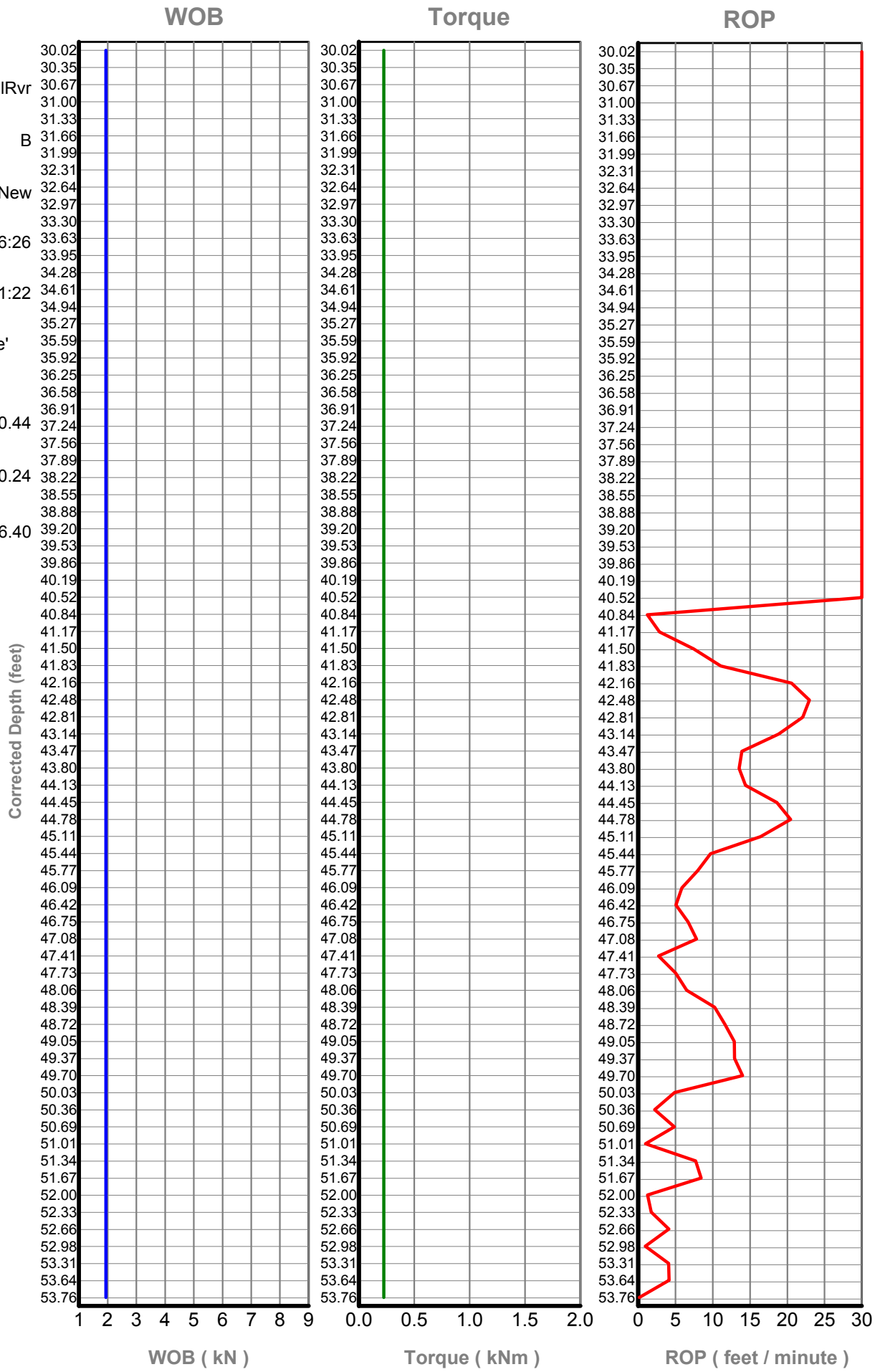
**End Date:**
4/20/2015 1:11:22

**Operator Note:**
'6.4 6.5 b Auto Complete'

**Northing:**
369,150.44

**Easting:**
253,620.24

**Tide (feet):**
6.40



## Hole: E45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 0:47:25 | 36.42 | 30.12 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 0:47:26 | 36.75 | 30.45 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 0:47:26 | 37.07 | 30.77 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 0:47:26 | 37.40 | 31.10 | 998 | 1.93 | 0.22 | 54.6 |
| 4/20/2015 0:47:27 | 37.73 | 31.43 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 0:47:27 | 38.06 | 31.76 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 0:47:27 | 38.39 | 32.09 | 1,015 | 1.93 | 0.22 | 55.5 |
| 4/20/2015 0:47:28 | 38.71 | 32.41 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/20/2015 0:47:28 | 39.04 | 32.74 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/20/2015 0:47:28 | 39.37 | 33.07 | 1,012 | 1.93 | 0.22 | 55.4 |
| 4/20/2015 0:47:29 | 39.70 | 33.40 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:29 | 40.03 | 33.73 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:29 | 40.35 | 34.05 | 1,012 | 1.93 | 0.22 | 55.4 |
| 4/20/2015 0:47:30 | 40.68 | 34.38 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/20/2015 0:47:30 | 41.01 | 34.71 | 1,007 | 1.93 | 0.22 | 55.1 |
| 4/20/2015 0:47:30 | 41.34 | 35.04 | 1,007 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 0:47:31 | 41.67 | 35.37 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 0:47:31 | 41.99 | 35.69 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 0:47:31 | 42.32 | 36.02 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 0:47:32 | 42.65 | 36.35 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/20/2015 0:47:32 | 42.98 | 36.68 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:33 | 43.31 | 37.01 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:33 | 43.64 | 37.34 | 1,021 | 1.93 | 0.22 | 55.8 |
| 4/20/2015 0:47:33 | 43.96 | 37.66 | 1,023 | 1.93 | 0.22 | 56.0 |
| 4/20/2015 0:47:34 | 44.29 | 37.99 | 1,023 | 1.93 | 0.22 | 56.0 |
| 4/20/2015 0:47:34 | 44.62 | 38.32 | 1,021 | 1.93 | 0.22 | 55.8 |
| 4/20/2015 0:47:35 | 44.95 | 38.65 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:35 | 45.28 | 38.98 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/20/2015 0:47:35 | 45.60 | 39.30 | 1,018 | 1.93 | 0.22 | 55.7 |
| 4/20/2015 0:47:36 | 45.93 | 39.63 | 1,015 | 1.93 | 0.22 | 55.5 |
| 4/20/2015 0:48:07 | 46.26 | 39.96 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 0:48:11 | 46.59 | 40.29 | 119 | 1.93 | 0.22 | 6.5 |
| 4/20/2015 0:48:16 | 46.92 | 40.62 | 99 | 1.93 | 0.22 | 5.4 |
| 4/20/2015 0:48:18 | 47.24 | 40.94 | 177 | 1.93 | 0.22 | 9.7 |
| 4/20/2015 0:48:20 | 47.57 | 41.27 | 191 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 0:48:23 | 47.90 | 41.60 | 139 | 1.93 | 0.22 | 7.6 |
| 4/20/2015 0:48:48 | 48.23 | 41.93 | 20 | 1.93 | 0.22 | 1.1 |
| 4/20/2015 0:48:49 | 48.56 | 42.26 | 160 | 1.93 | 0.22 | 8.7 |
| 4/20/2015 0:48:50 | 48.88 | 42.58 | 297 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 0:49:15 | 49.21 | 42.91 | 68 | 1.93 | 0.22 | 3.7 |
| 4/20/2015 0:49:16 | 49.54 | 43.24 | 207 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 0:49:17 | 49.87 | 43.57 | 317 | 1.93 | 0.22 | 17.3 |
| 4/20/2015 0:49:20 | 50.20 | 43.90 | 110 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 0:49:22 | 50.53 | 44.23 | 213 | 1.93 | 0.22 | 11.6 |
| 4/20/2015 0:49:25 | 50.85 | 44.55 | 151 | 1.93 | 0.22 | 8.3 |
| 4/20/2015 0:49:26 | 51.18 | 44.88 | 160 | 1.93 | 0.22 | 8.7 |
| 4/20/2015 0:49:28 | 51.51 | 45.21 | 233 | 1.93 | 0.22 | 12.7 |
| 4/20/2015 0:49:28 | 51.84 | 45.54 | 276 | 1.93 | 0.22 | 15.1 |
| 4/20/2015 0:49:29 | 52.17 | 45.87 | 360 | 1.93 | 0.22 | 19.7 |
| 4/20/2015 0:49:30 | 52.49 | 46.19 | 400 | 1.93 | 0.22 | 21.9 |
| 4/20/2015 0:49:31 | 52.82 | 46.52 | 387 | 1.93 | 0.22 | 21.1 |
| 4/20/2015 0:49:32 | 53.15 | 46.85 | 390 | 1.93 | 0.22 | 21.3 |
| 4/20/2015 0:49:34 | 53.48 | 47.18 | 391 | 1.93 | 0.22 | 21.4 |
| 4/20/2015 0:49:35 | 53.81 | 47.51 | 291 | 1.93 | 0.22 | 15.9 |
| 4/20/2015 0:49:39 | 54.13 | 47.83 | 76 | 1.93 | 0.22 | 4.2 |
| 4/20/2015 0:49:42 | 54.46 | 48.16 | 103 | 1.93 | 0.22 | 5.7 |
| 4/20/2015 0:49:51 | 54.79 | 48.49 | 38 | 1.93 | 0.22 | 2.1 |
| 4/20/2015 0:49:53 | 55.12 | 48.82 | 98 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 0:49:54 | 55.45 | 49.15 | 168 | 1.93 | 0.22 | 9.2 |
| 4/20/2015 0:49:55 | 55.77 | 49.47 | 316 | 1.93 | 0.22 | 17.3 |
| 4/20/2015 0:49:57 | 56.10 | 49.80 | 404 | 1.93 | 0.22 | 22.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 0:49:59 | 56.43 | 50.13 | 134 | 1.93 | 0.22 | 7.3 |
| 4/20/2015 | 0:50:01 | 56.76 | 50.46 | 160 | 1.93 | 0.22 | 8.8 |
| 4/20/2015 | 0:50:03 | 57.09 | 50.79 | 201 | 1.93 | 0.22 | 11.0 |
| 4/20/2015 | 0:50:05 | 57.41 | 51.11 | 163 | 1.93 | 0.22 | 8.9 |
| 4/20/2015 | 0:50:09 | 57.74 | 51.44 | 105 | 1.93 | 0.22 | 5.7 |
| 4/20/2015 | 0:50:12 | 58.07 | 51.77 | 105 | 1.93 | 0.22 | 5.7 |
| 4/20/2015 | 0:50:14 | 58.40 | 52.10 | 143 | 1.93 | 0.22 | 7.8 |
| 4/20/2015 | 0:50:17 | 58.73 | 52.43 | 153 | 1.93 | 0.22 | 8.4 |
| 4/20/2015 | 0:50:19 | 59.06 | 52.76 | 163 | 1.93 | 0.22 | 8.9 |
| 4/20/2015 | 0:50:21 | 59.38 | 53.08 | 171 | 1.93 | 0.22 | 9.4 |
| 4/20/2015 | 0:50:25 | 59.71 | 53.41 | 88 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 0:50:29 | 60.04 | 53.74 | 87 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 0:50:33 | 60.37 | 54.07 | 130 | 1.93 | 0.22 | 7.1 |
| 4/20/2015 | 0:50:35 | 60.57 | 54.27 | 87 | 1.93 | 0.22 | 4.8 |

## E45 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 0:43:36

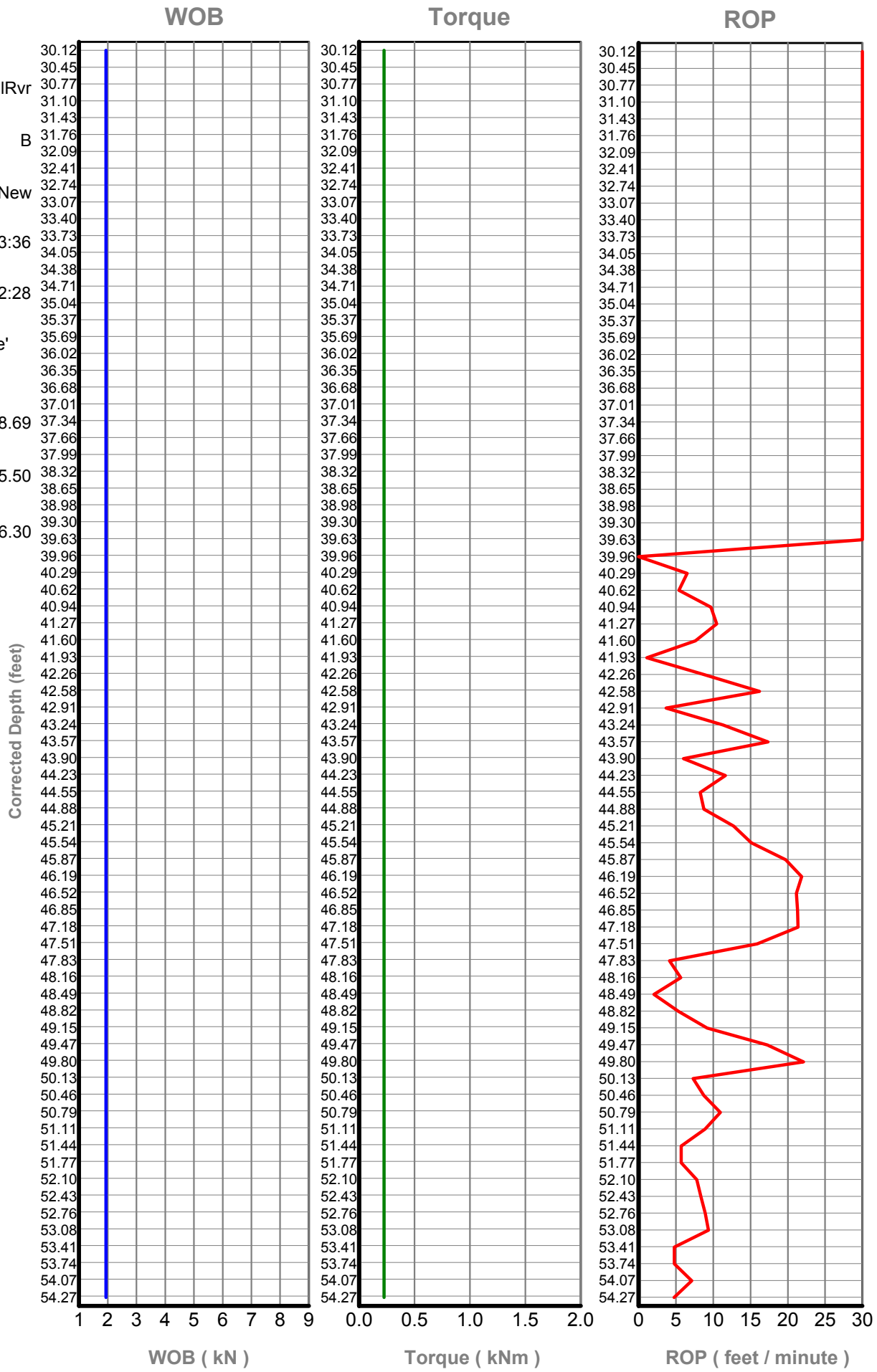
**End Date:**
4/20/2015 0:52:28

**Operator Note:**
'6.3 5.5 b Auto Complete'

**Northing:**
369,198.69

**Easting:**
253,685.50

**Tide (feet):**
6.30



## Hole: E46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 20:24:09 | 31.17 | 30.27 | 811 | 1.93 | 0.22 | 44.3 |
| 4/19/2015 20:24:09 | 31.50 | 30.60 | 806 | 1.93 | 0.22 | 44.1 |
| 4/19/2015 20:24:09 | 31.82 | 30.92 | 799 | 1.93 | 0.22 | 43.7 |
| 4/19/2015 20:24:10 | 32.15 | 31.25 | 808 | 1.93 | 0.22 | 44.2 |
| 4/19/2015 20:24:10 | 32.48 | 31.58 | 789 | 1.93 | 0.22 | 43.2 |
| 4/19/2015 20:24:11 | 32.81 | 31.91 | 792 | 1.93 | 0.22 | 43.3 |
| 4/19/2015 20:24:11 | 33.14 | 32.24 | 792 | 1.93 | 0.22 | 43.3 |
| 4/19/2015 20:24:12 | 33.46 | 32.56 | 792 | 1.93 | 0.22 | 43.3 |
| 4/19/2015 20:24:12 | 33.79 | 32.89 | 796 | 1.93 | 0.22 | 43.5 |
| 4/19/2015 20:24:12 | 34.12 | 33.22 | 803 | 1.93 | 0.22 | 43.9 |
| 4/19/2015 20:24:13 | 34.45 | 33.55 | 794 | 1.93 | 0.22 | 43.4 |
| 4/19/2015 20:24:13 | 34.78 | 33.88 | 809 | 1.93 | 0.22 | 44.2 |
| 4/19/2015 20:24:14 | 35.11 | 34.21 | 810 | 1.93 | 0.22 | 44.3 |
| 4/19/2015 20:24:14 | 35.43 | 34.53 | 801 | 1.93 | 0.22 | 43.8 |
| 4/19/2015 20:24:15 | 35.76 | 34.86 | 801 | 1.93 | 0.22 | 43.8 |
| 4/19/2015 20:24:15 | 36.09 | 35.19 | 801 | 1.93 | 0.22 | 43.8 |
| 4/19/2015 20:24:15 | 36.42 | 35.52 | 797 | 1.93 | 0.22 | 43.6 |
| 4/19/2015 20:24:16 | 36.75 | 35.85 | 785 | 1.93 | 0.22 | 42.9 |
| 4/19/2015 20:24:16 | 37.07 | 36.17 | 787 | 1.93 | 0.22 | 43.1 |
| 4/19/2015 20:24:17 | 37.40 | 36.50 | 800 | 1.93 | 0.22 | 43.8 |
| 4/19/2015 20:24:17 | 37.73 | 36.83 | 806 | 1.93 | 0.22 | 44.1 |
| 4/19/2015 20:24:18 | 38.06 | 37.16 | 806 | 1.93 | 0.22 | 44.1 |
| 4/19/2015 20:24:18 | 38.39 | 37.49 | 807 | 1.93 | 0.22 | 44.2 |
| 4/19/2015 20:24:18 | 38.71 | 37.81 | 825 | 1.93 | 0.22 | 45.1 |
| 4/19/2015 20:24:19 | 39.04 | 38.14 | 825 | 1.93 | 0.22 | 45.1 |
| 4/19/2015 20:24:19 | 39.37 | 38.47 | 815 | 1.93 | 0.22 | 44.6 |
| 4/19/2015 20:24:20 | 39.70 | 38.80 | 815 | 1.93 | 0.22 | 44.5 |
| 4/19/2015 20:24:21 | 40.03 | 39.13 | 814 | 1.93 | 0.22 | 44.5 |
| 4/19/2015 20:24:21 | 40.35 | 39.45 | 814 | 1.93 | 0.22 | 44.5 |
| 4/19/2015 20:24:21 | 40.68 | 39.78 | 796 | 1.93 | 0.22 | 43.5 |
| 4/19/2015 20:24:22 | 41.01 | 40.11 | 789 | 1.93 | 0.22 | 43.1 |
| 4/19/2015 20:24:22 | 41.34 | 40.44 | 793 | 1.93 | 0.22 | 43.3 |
| 4/19/2015 20:24:23 | 41.67 | 40.77 | 778 | 1.93 | 0.22 | 42.5 |
| 4/19/2015 20:24:29 | 41.99 | 41.09 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 20:24:50 | 42.32 | 41.42 | 86 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 20:24:54 | 42.65 | 41.75 | 84 | 1.93 | 0.22 | 4.6 |
| 4/19/2015 20:24:57 | 42.98 | 42.08 | 99 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 20:24:59 | 43.31 | 42.41 | 187 | 1.93 | 0.22 | 10.2 |
| 4/19/2015 20:25:02 | 43.64 | 42.74 | 105 | 1.93 | 0.22 | 5.8 |
| 4/19/2015 20:25:09 | 43.96 | 43.06 | 61 | 1.93 | 0.22 | 3.3 |
| 4/19/2015 20:25:11 | 44.29 | 43.39 | 120 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 20:25:13 | 44.62 | 43.72 | 210 | 1.93 | 0.22 | 11.5 |
| 4/19/2015 20:25:15 | 44.95 | 44.05 | 188 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 20:25:30 | 45.28 | 44.38 | 59 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 20:25:31 | 45.60 | 44.70 | 175 | 1.93 | 0.22 | 9.6 |
| 4/19/2015 20:25:33 | 45.93 | 45.03 | 271 | 1.93 | 0.22 | 14.8 |
| 4/19/2015 20:25:34 | 46.26 | 45.36 | 279 | 1.93 | 0.22 | 15.3 |
| 4/19/2015 20:25:36 | 46.59 | 45.69 | 194 | 1.93 | 0.22 | 10.6 |
| 4/19/2015 20:25:39 | 46.92 | 46.02 | 121 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 20:25:43 | 47.24 | 46.34 | 92 | 1.93 | 0.22 | 5.0 |
| 4/19/2015 20:25:48 | 47.57 | 46.67 | 77 | 1.93 | 0.22 | 4.2 |
| 4/19/2015 20:25:52 | 47.90 | 47.00 | 81 | 1.93 | 0.22 | 4.4 |
| 4/19/2015 20:25:54 | 48.23 | 47.33 | 100 | 1.93 | 0.22 | 5.5 |
| 4/19/2015 20:26:15 | 48.56 | 47.66 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 20:26:16 | 48.88 | 47.98 | 123 | 1.93 | 0.22 | 6.7 |
| 4/19/2015 20:26:17 | 49.21 | 48.31 | 254 | 1.93 | 0.22 | 13.9 |
| 4/19/2015 20:26:19 | 49.54 | 48.64 | 294 | 1.93 | 0.22 | 16.1 |
| 4/19/2015 20:26:20 | 49.87 | 48.97 | 278 | 1.93 | 0.22 | 15.2 |
| 4/19/2015 20:26:23 | 50.20 | 49.30 | 200 | 1.93 | 0.22 | 10.9 |
| 4/19/2015 20:26:24 | 50.53 | 49.63 | 166 | 1.93 | 0.22 | 9.1 |
| 4/19/2015 20:26:26 | 50.85 | 49.95 | 228 | 1.93 | 0.22 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 20:26:27 | 51.18 | 50.28 | 259 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 | 20:26:28 | 51.51 | 50.61 | 258 | 1.93 | 0.22 | 14.1 |
| 4/19/2015 | 20:26:31 | 51.84 | 50.94 | 238 | 1.93 | 0.22 | 13.0 |
| 4/19/2015 | 20:26:32 | 52.17 | 51.27 | 208 | 1.93 | 0.22 | 11.4 |
| 4/19/2015 | 20:26:34 | 52.49 | 51.59 | 188 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 | 20:26:36 | 52.82 | 51.92 | 182 | 1.93 | 0.22 | 10.0 |
| 4/19/2015 | 20:26:38 | 53.15 | 52.25 | 202 | 1.93 | 0.22 | 11.0 |
| 4/19/2015 | 20:26:39 | 53.48 | 52.58 | 206 | 1.93 | 0.22 | 11.3 |
| 4/19/2015 | 20:26:41 | 53.81 | 52.91 | 212 | 1.93 | 0.22 | 11.6 |
| 4/19/2015 | 20:26:44 | 54.13 | 53.23 | 132 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 | 20:26:50 | 54.46 | 53.56 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 | 20:26:55 | 54.79 | 53.89 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 | 20:27:00 | 55.12 | 54.22 | 84 | 1.93 | 0.22 | 4.6 |
| 4/19/2015 | 20:27:04 | 55.45 | 54.55 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 | 20:27:11 | 55.77 | 54.87 | 44 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 | 20:27:18 | 56.02 | 55.12 | 41 | 1.93 | 0.22 | 2.2 |

## E46 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 20:20:25

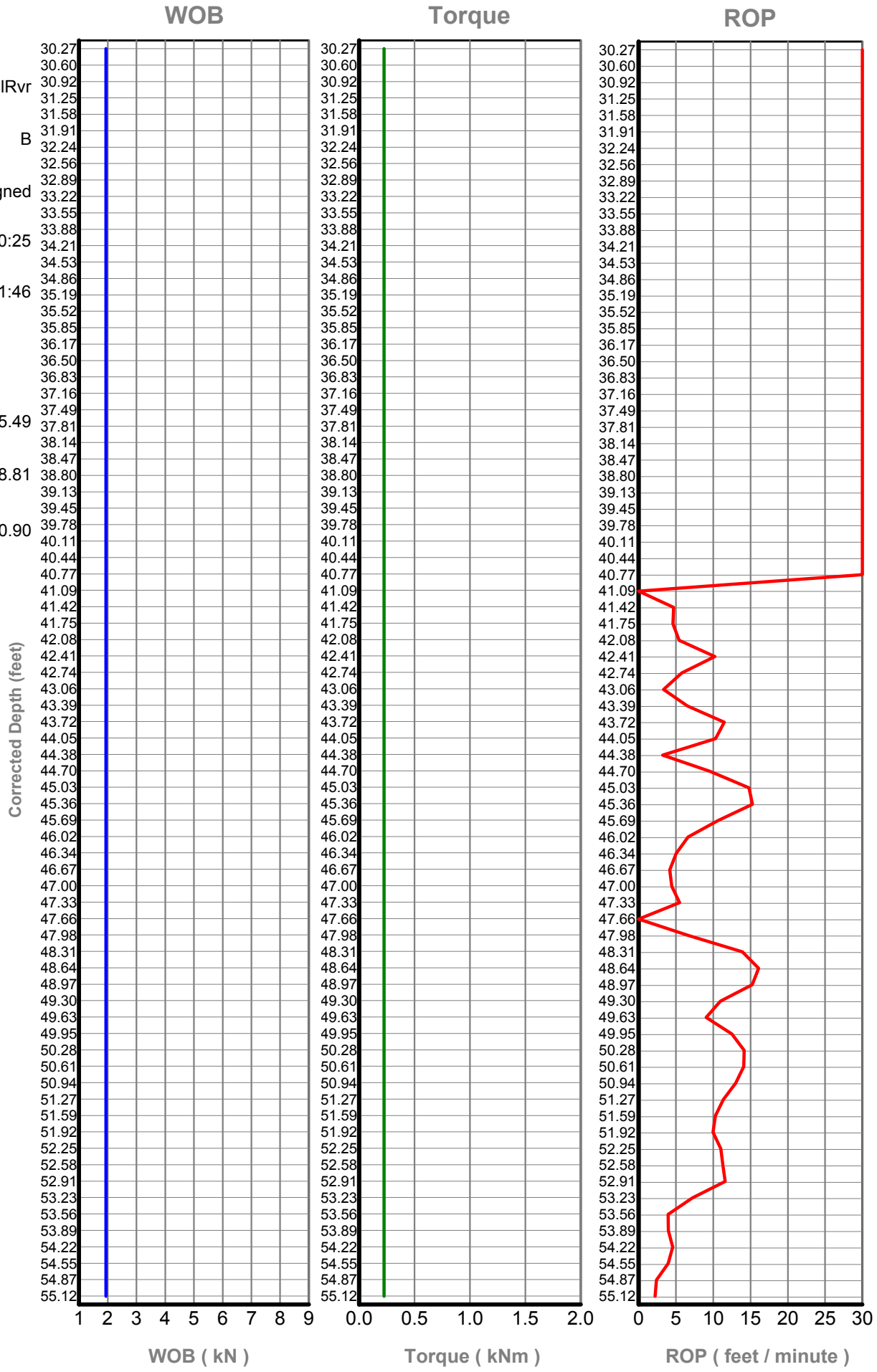
**End Date:**
4/19/2015 20:31:46

**Operator Note:**
'0.9 1 b Auto Complete'

**Northing:**
369,245.49

**Easting:**
253,738.81

**Tide (feet):**
0.90



## Hole: E47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 20:39:25 | 30.84 | 30.14 | 947 | 1.93 | 0.22 | 51.8 |
| 4/19/2015 20:39:26 | 31.17 | 30.47 | 947 | 1.93 | 0.22 | 51.8 |
| 4/19/2015 20:39:26 | 31.50 | 30.80 | 947 | 1.93 | 0.22 | 51.8 |
| 4/19/2015 20:39:26 | 31.82 | 31.12 | 952 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:27 | 32.15 | 31.45 | 955 | 1.93 | 0.22 | 52.2 |
| 4/19/2015 20:39:27 | 32.48 | 31.78 | 949 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 20:39:28 | 32.81 | 32.11 | 949 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 20:39:28 | 33.14 | 32.44 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:28 | 33.46 | 32.76 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:29 | 33.79 | 33.09 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:29 | 34.12 | 33.42 | 962 | 1.93 | 0.22 | 52.6 |
| 4/19/2015 20:39:30 | 34.45 | 33.75 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:30 | 34.78 | 34.08 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:31 | 35.11 | 34.41 | 938 | 1.93 | 0.22 | 51.3 |
| 4/19/2015 20:39:31 | 35.43 | 34.73 | 944 | 1.93 | 0.22 | 51.6 |
| 4/19/2015 20:39:31 | 35.76 | 35.06 | 942 | 1.93 | 0.22 | 51.5 |
| 4/19/2015 20:39:32 | 36.09 | 35.39 | 941 | 1.93 | 0.22 | 51.5 |
| 4/19/2015 20:39:32 | 36.42 | 35.72 | 941 | 1.93 | 0.22 | 51.5 |
| 4/19/2015 20:39:32 | 36.75 | 36.05 | 941 | 1.93 | 0.22 | 51.5 |
| 4/19/2015 20:39:33 | 37.07 | 36.37 | 954 | 1.93 | 0.22 | 52.2 |
| 4/19/2015 20:39:33 | 37.40 | 36.70 | 954 | 1.93 | 0.22 | 52.2 |
| 4/19/2015 20:39:33 | 37.73 | 37.03 | 949 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 20:39:34 | 38.06 | 37.36 | 949 | 1.93 | 0.22 | 51.9 |
| 4/19/2015 20:39:34 | 38.39 | 37.69 | 957 | 1.93 | 0.22 | 52.3 |
| 4/19/2015 20:39:35 | 38.71 | 38.01 | 957 | 1.93 | 0.22 | 52.3 |
| 4/19/2015 20:39:35 | 39.04 | 38.34 | 954 | 1.93 | 0.22 | 52.1 |
| 4/19/2015 20:39:35 | 39.37 | 38.67 | 954 | 1.93 | 0.22 | 52.2 |
| 4/19/2015 20:39:36 | 39.70 | 39.00 | 951 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:36 | 40.03 | 39.33 | 951 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:36 | 40.35 | 39.65 | 951 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:37 | 40.68 | 39.98 | 951 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:37 | 41.01 | 40.31 | 951 | 1.93 | 0.22 | 52.0 |
| 4/19/2015 20:39:37 | 41.34 | 40.64 | 929 | 1.93 | 0.22 | 50.8 |
| 4/19/2015 20:39:43 | 41.67 | 40.97 | 16 | 1.93 | 0.22 | 0.9 |
| 4/19/2015 20:40:26 | 41.99 | 41.29 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 20:40:48 | 42.32 | 41.62 | 17 | 1.93 | 0.22 | 1.0 |
| 4/19/2015 20:40:54 | 42.65 | 41.95 | 73 | 1.93 | 0.22 | 4.0 |
| 4/19/2015 20:40:56 | 42.98 | 42.28 | 171 | 1.93 | 0.22 | 9.3 |
| 4/19/2015 20:40:58 | 43.31 | 42.61 | 128 | 1.93 | 0.22 | 7.0 |
| 4/19/2015 20:41:02 | 43.64 | 42.94 | 88 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 20:41:14 | 43.96 | 43.26 | 15 | 1.93 | 0.22 | 0.8 |
| 4/19/2015 20:41:19 | 44.29 | 43.59 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 20:41:33 | 44.62 | 43.92 | 58 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 20:41:38 | 44.95 | 44.25 | 62 | 1.93 | 0.22 | 3.4 |
| 4/19/2015 20:41:42 | 45.28 | 44.58 | 90 | 1.93 | 0.22 | 4.9 |
| 4/19/2015 20:41:47 | 45.60 | 44.90 | 9 | 1.93 | 0.22 | 0.5 |
| 4/19/2015 20:41:58 | 45.93 | 45.23 | 29 | 1.93 | 0.22 | 1.6 |
| 4/19/2015 20:41:59 | 46.26 | 45.56 | 97 | 1.93 | 0.22 | 5.3 |
| 4/19/2015 20:42:05 | 46.59 | 45.89 | 20 | 1.93 | 0.22 | 1.1 |
| 4/19/2015 20:42:06 | 46.92 | 46.22 | 180 | 1.93 | 0.22 | 9.8 |
| 4/19/2015 20:42:06 | 47.24 | 46.54 | 274 | 1.93 | 0.22 | 15.0 |
| 4/19/2015 20:42:07 | 47.57 | 46.87 | 400 | 1.93 | 0.22 | 21.8 |
| 4/19/2015 20:42:09 | 47.90 | 47.20 | 283 | 1.93 | 0.22 | 15.5 |
| 4/19/2015 20:42:10 | 48.23 | 47.53 | 257 | 1.93 | 0.22 | 14.0 |
| 4/19/2015 20:42:12 | 48.56 | 47.86 | 219 | 1.93 | 0.22 | 12.0 |
| 4/19/2015 20:42:28 | 48.88 | 48.18 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 20:42:29 | 49.21 | 48.51 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 20:42:30 | 49.54 | 48.84 | 206 | 1.93 | 0.22 | 11.3 |
| 4/19/2015 20:42:33 | 49.87 | 49.17 | 176 | 1.93 | 0.22 | 9.6 |
| 4/19/2015 20:42:36 | 50.20 | 49.50 | 109 | 1.93 | 0.22 | 6.0 |
| 4/19/2015 20:42:37 | 50.53 | 49.83 | 158 | 1.93 | 0.22 | 8.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 20:42:37 | 50.85 | 50.15 | 220 | 1.93 | 0.22 | 12.0 |
| 4/19/2015 | 20:42:38 | 51.18 | 50.48 | 330 | 1.93 | 0.22 | 18.0 |
| 4/19/2015 | 20:42:40 | 51.51 | 50.81 | 384 | 1.93 | 0.22 | 21.0 |
| 4/19/2015 | 20:42:41 | 51.84 | 51.14 | 372 | 1.93 | 0.22 | 20.4 |
| 4/19/2015 | 20:42:42 | 52.17 | 51.47 | 337 | 1.93 | 0.22 | 18.5 |
| 4/19/2015 | 20:42:43 | 52.49 | 51.79 | 267 | 1.93 | 0.22 | 14.6 |
| 4/19/2015 | 20:42:45 | 52.82 | 52.12 | 241 | 1.93 | 0.22 | 13.2 |
| 4/19/2015 | 20:42:46 | 53.15 | 52.45 | 221 | 1.93 | 0.22 | 12.1 |
| 4/19/2015 | 20:42:48 | 53.48 | 52.78 | 230 | 1.93 | 0.22 | 12.6 |
| 4/19/2015 | 20:42:49 | 53.81 | 53.11 | 247 | 1.93 | 0.22 | 13.5 |
| 4/19/2015 | 20:42:51 | 54.13 | 53.43 | 247 | 1.93 | 0.22 | 13.5 |
| 4/19/2015 | 20:42:52 | 54.46 | 53.76 | 261 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 | 20:42:53 | 54.79 | 54.09 | 280 | 1.93 | 0.22 | 15.3 |
| 4/19/2015 | 20:42:55 | 55.12 | 54.42 | 292 | 1.93 | 0.22 | 16.0 |
| 4/19/2015 | 20:42:56 | 55.45 | 54.75 | 285 | 1.93 | 0.22 | 15.6 |
| 4/19/2015 | 20:42:59 | 55.77 | 55.07 | 113 | 1.93 | 0.22 | 6.2 |
| 4/19/2015 | 20:43:02 | 56.03 | 55.33 | 87 | 1.93 | 0.22 | 4.8 |

## E47 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 20:37:20

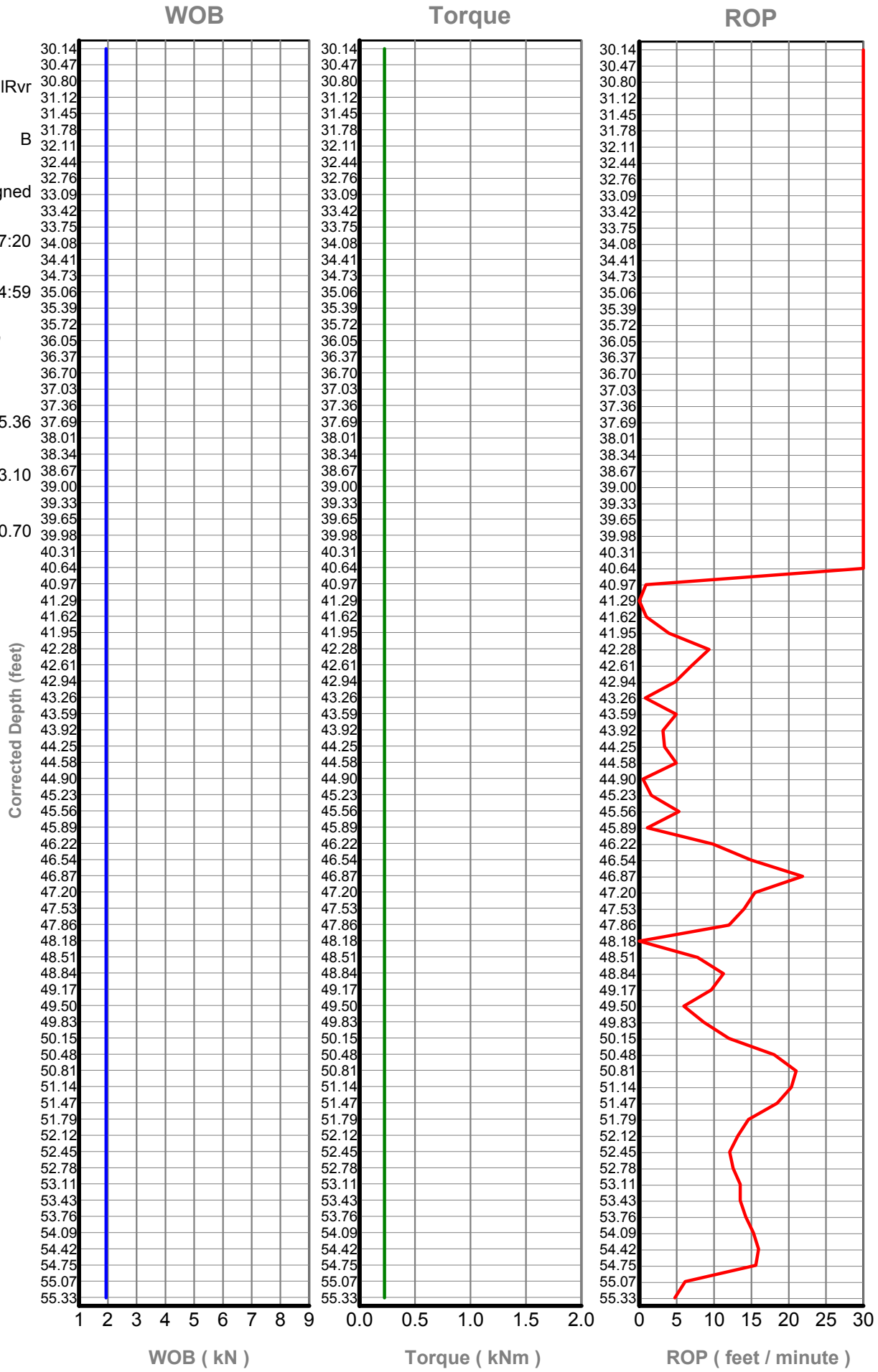
**End Date:**
4/19/2015 20:44:59

**Operator Note:**
'0.7 1. B Auto Complete'

**Northing:**
369,285.36

**Easting:**
253,783.10

**Tide (feet):**
0.70



## Hole: E48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 20:54:08 | 30.84 | 30.24 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 20:54:09 | 31.17 | 30.57 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 20:54:09 | 31.50 | 30.90 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 20:54:10 | 31.82 | 31.22 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 20:54:10 | 32.15 | 31.55 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 20:54:10 | 32.48 | 31.88 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 20:54:11 | 32.81 | 32.21 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 20:54:11 | 33.14 | 32.54 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 20:54:11 | 33.46 | 32.86 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 20:54:12 | 33.79 | 33.19 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 20:54:12 | 34.12 | 33.52 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 20:54:12 | 34.45 | 33.85 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 20:54:13 | 34.78 | 34.18 | 991 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 20:54:13 | 35.11 | 34.51 | 991 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 20:54:13 | 35.43 | 34.83 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 20:54:14 | 35.76 | 35.16 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 20:54:14 | 36.09 | 35.49 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 20:54:14 | 36.42 | 35.82 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 20:54:15 | 36.75 | 36.15 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 20:54:16 | 37.07 | 36.47 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 20:54:16 | 37.40 | 36.80 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 20:54:16 | 37.73 | 37.13 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 20:54:17 | 38.06 | 37.46 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 20:54:17 | 38.39 | 37.79 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 20:54:17 | 38.71 | 38.11 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 20:54:18 | 39.04 | 38.44 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 20:54:18 | 39.37 | 38.77 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 20:54:18 | 39.70 | 39.10 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 20:54:35 | 40.03 | 39.43 | 6 | 1.93 | 0.22 | 0.3 |
| 4/19/2015 20:54:40 | 40.35 | 39.75 | 82 | 1.93 | 0.22 | 4.5 |
| 4/19/2015 20:54:41 | 40.68 | 40.08 | 189 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 20:54:43 | 41.01 | 40.41 | 201 | 1.93 | 0.22 | 11.0 |
| 4/19/2015 20:54:45 | 41.34 | 40.74 | 143 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 20:54:47 | 41.67 | 41.07 | 148 | 1.93 | 0.22 | 8.1 |
| 4/19/2015 20:54:49 | 41.99 | 41.39 | 239 | 1.93 | 0.22 | 13.1 |
| 4/19/2015 20:54:51 | 42.32 | 41.72 | 218 | 1.93 | 0.22 | 11.9 |
| 4/19/2015 20:54:52 | 42.65 | 42.05 | 238 | 1.93 | 0.22 | 13.0 |
| 4/19/2015 20:54:58 | 42.98 | 42.38 | 44 | 1.93 | 0.22 | 2.4 |
| 4/19/2015 20:55:00 | 43.31 | 42.71 | 175 | 1.93 | 0.22 | 9.6 |
| 4/19/2015 20:55:04 | 43.64 | 43.04 | 95 | 1.93 | 0.22 | 5.2 |
| 4/19/2015 20:55:06 | 43.96 | 43.36 | 157 | 1.93 | 0.22 | 8.6 |
| 4/19/2015 20:55:13 | 44.29 | 43.69 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 20:55:27 | 44.62 | 44.02 | 26 | 1.93 | 0.22 | 1.4 |
| 4/19/2015 20:55:32 | 44.95 | 44.35 | 79 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 20:55:35 | 45.28 | 44.68 | 108 | 1.93 | 0.22 | 5.9 |
| 4/19/2015 20:55:37 | 45.60 | 45.00 | 169 | 1.93 | 0.22 | 9.2 |
| 4/19/2015 20:55:39 | 45.93 | 45.33 | 235 | 1.93 | 0.22 | 12.9 |
| 4/19/2015 20:55:40 | 46.26 | 45.66 | 294 | 1.93 | 0.22 | 16.1 |
| 4/19/2015 20:55:42 | 46.59 | 45.99 | 288 | 1.93 | 0.22 | 15.8 |
| 4/19/2015 20:55:46 | 46.92 | 46.32 | 29 | 1.93 | 0.22 | 1.6 |
| 4/19/2015 20:55:46 | 47.24 | 46.64 | 77 | 1.93 | 0.22 | 4.2 |
| 4/19/2015 20:55:49 | 47.57 | 46.97 | 212 | 1.93 | 0.22 | 11.6 |
| 4/19/2015 20:55:52 | 47.90 | 47.30 | 110 | 1.93 | 0.22 | 6.0 |
| 4/19/2015 20:55:55 | 48.23 | 47.63 | 102 | 1.93 | 0.22 | 5.6 |
| 4/19/2015 20:55:59 | 48.56 | 47.96 | 99 | 1.93 | 0.22 | 5.4 |
| 4/19/2015 20:56:00 | 48.88 | 48.28 | 205 | 1.93 | 0.22 | 11.2 |
| 4/19/2015 20:56:02 | 49.21 | 48.61 | 247 | 1.93 | 0.22 | 13.5 |
| 4/19/2015 20:56:04 | 49.54 | 48.94 | 181 | 1.93 | 0.22 | 9.9 |
| 4/19/2015 20:56:07 | 49.87 | 49.27 | 125 | 1.93 | 0.22 | 6.8 |
| 4/19/2015 20:56:09 | 50.20 | 49.60 | 132 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 20:56:11 | 50.53 | 49.93 | 175 | 1.93 | 0.22 | 9.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 20:56:12 | 50.85 | 50.25 | 212 | 1.93 | 0.22 | 11.6 |
| 4/19/2015 | 20:56:16 | 51.18 | 50.58 | 115 | 1.93 | 0.22 | 6.3 |
| 4/19/2015 | 20:56:17 | 51.51 | 50.91 | 145 | 1.93 | 0.22 | 7.9 |
| 4/19/2015 | 20:56:18 | 51.84 | 51.24 | 266 | 1.93 | 0.22 | 14.5 |
| 4/19/2015 | 20:56:21 | 52.17 | 51.57 | 160 | 1.93 | 0.22 | 8.8 |
| 4/19/2015 | 20:56:23 | 52.49 | 51.89 | 160 | 1.93 | 0.22 | 8.8 |
| 4/19/2015 | 20:56:26 | 52.82 | 52.22 | 146 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 | 20:56:28 | 53.15 | 52.55 | 160 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 | 20:56:30 | 53.48 | 52.88 | 159 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 | 20:56:33 | 53.81 | 53.21 | 122 | 1.93 | 0.22 | 6.7 |
| 4/19/2015 | 20:56:38 | 54.13 | 53.53 | 78 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 20:56:42 | 54.46 | 53.86 | 79 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 20:56:46 | 54.79 | 54.19 | 85 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 | 20:56:50 | 55.12 | 54.52 | 96 | 1.93 | 0.22 | 5.3 |
| 4/19/2015 | 20:56:55 | 55.45 | 54.85 | 69 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 | 20:57:00 | 55.71 | 55.11 | 49 | 1.93 | 0.22 | 2.7 |

## E48 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 20:51:45

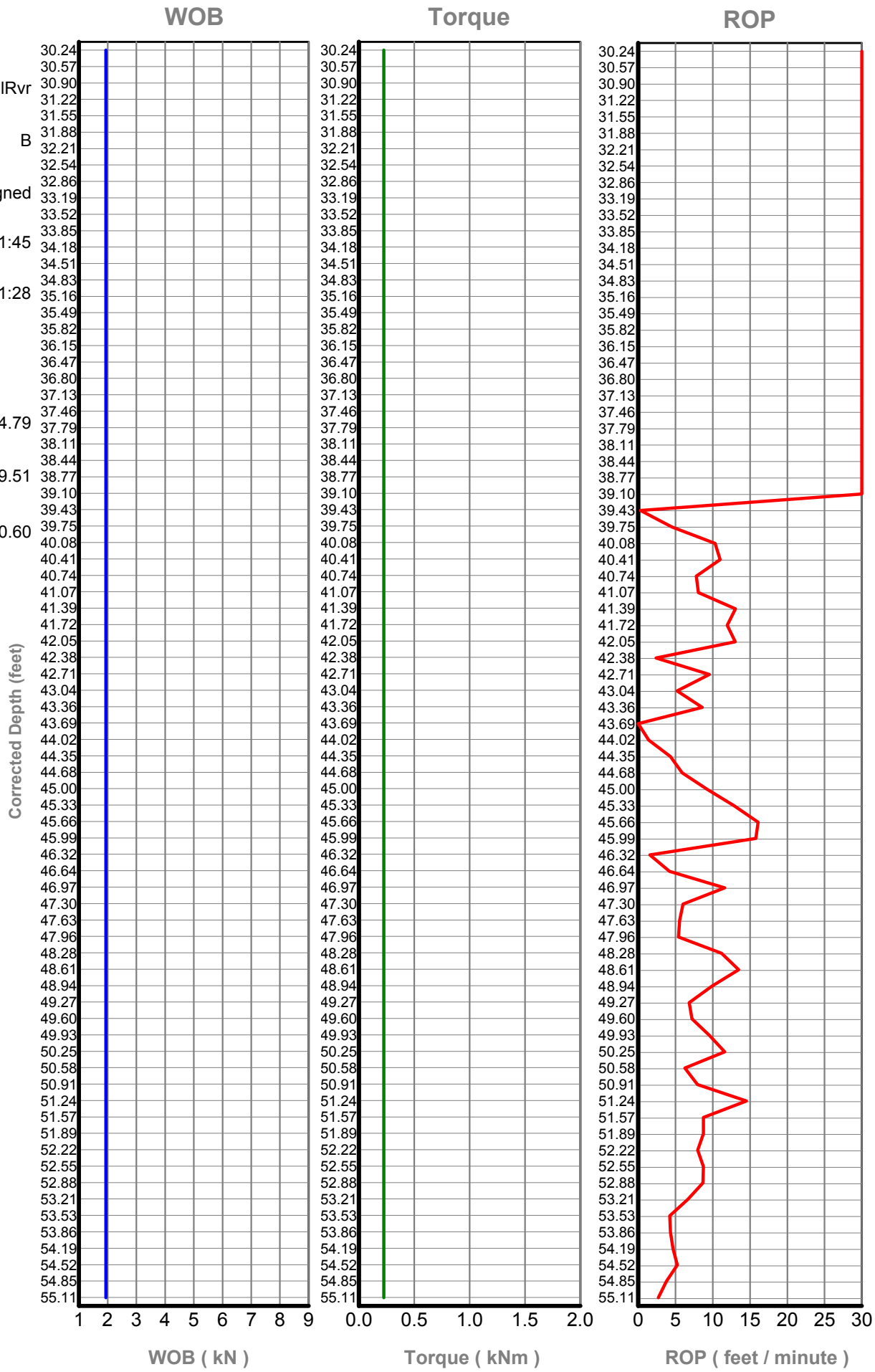
**End Date:**
4/19/2015 21:01:28

**Operator Note:**
'0.6 '0.8 .7 b Auto Complete'

**Northing:**
369,334.79

**Easting:**
253,839.51

**Tide (feet):**
0.60



## Hole: E49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:13:35 | 35.11 | 30.21 | 1,468 | 3.23 | 0.16 | 80.3 |
| 4/22/2015 1:13:36 | 35.43 | 30.53 | 1,463 | 3.22 | 0.15 | 80.0 |
| 4/22/2015 1:13:36 | 35.76 | 30.86 | 1,463 | 3.22 | 0.15 | 80.0 |
| 4/22/2015 1:13:36 | 36.09 | 31.19 | 1,460 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 1:13:37 | 36.42 | 31.52 | 1,460 | 3.22 | 0.15 | 79.8 |
| 4/22/2015 1:13:37 | 36.75 | 31.85 | 1,444 | 3.21 | 0.15 | 79.0 |
| 4/22/2015 1:13:37 | 37.07 | 32.17 | 1,444 | 3.21 | 0.15 | 79.0 |
| 4/22/2015 1:13:37 | 37.40 | 32.50 | 1,425 | 3.22 | 0.15 | 77.9 |
| 4/22/2015 1:13:38 | 37.73 | 32.83 | 1,425 | 3.22 | 0.15 | 77.9 |
| 4/22/2015 1:13:38 | 38.06 | 33.16 | 1,425 | 3.23 | 0.15 | 77.9 |
| 4/22/2015 1:13:38 | 38.39 | 33.49 | 1,425 | 3.23 | 0.15 | 77.9 |
| 4/22/2015 1:13:38 | 38.71 | 33.81 | 1,425 | 3.23 | 0.15 | 77.9 |
| 4/22/2015 1:13:38 | 39.04 | 34.14 | 1,431 | 3.21 | 0.15 | 78.2 |
| 4/22/2015 1:13:39 | 39.37 | 34.47 | 1,431 | 3.21 | 0.15 | 78.2 |
| 4/22/2015 1:13:39 | 39.70 | 34.80 | 1,458 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 1:13:39 | 40.03 | 35.13 | 1,458 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 1:13:39 | 40.35 | 35.45 | 1,425 | 3.24 | 0.15 | 77.9 |
| 4/22/2015 1:13:40 | 40.68 | 35.78 | 1,425 | 3.24 | 0.15 | 77.9 |
| 4/22/2015 1:13:40 | 41.01 | 36.11 | 1,425 | 3.23 | 0.15 | 77.9 |
| 4/22/2015 1:13:40 | 41.34 | 36.44 | 1,425 | 3.23 | 0.15 | 77.9 |
| 4/22/2015 1:13:41 | 41.67 | 36.77 | 1,451 | 3.21 | 0.15 | 79.4 |
| 4/22/2015 1:13:41 | 41.99 | 37.09 | 1,451 | 3.21 | 0.15 | 79.4 |
| 4/22/2015 1:13:41 | 42.32 | 37.42 | 1,440 | 3.22 | 0.15 | 78.7 |
| 4/22/2015 1:13:41 | 42.65 | 37.75 | 1,440 | 3.22 | 0.15 | 78.7 |
| 4/22/2015 1:13:42 | 42.98 | 38.08 | 1,440 | 3.23 | 0.15 | 78.7 |
| 4/22/2015 1:13:42 | 43.31 | 38.41 | 1,440 | 3.23 | 0.15 | 78.7 |
| 4/22/2015 1:13:42 | 43.64 | 38.74 | 1,440 | 3.23 | 0.15 | 78.7 |
| 4/22/2015 1:13:42 | 43.96 | 39.06 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:13:42 | 44.29 | 39.39 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:13:43 | 44.62 | 39.72 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:13:43 | 44.95 | 40.05 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:13:43 | 45.28 | 40.38 | 1,413 | 3.21 | 0.15 | 77.3 |
| 4/22/2015 1:13:43 | 45.60 | 40.70 | 1,413 | 3.21 | 0.15 | 77.3 |
| 4/22/2015 1:13:44 | 45.93 | 41.03 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/22/2015 1:13:44 | 46.26 | 41.36 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/22/2015 1:13:44 | 46.59 | 41.69 | 1,470 | 3.22 | 0.15 | 80.4 |
| 4/22/2015 1:13:44 | 46.92 | 42.02 | 1,470 | 3.22 | 0.15 | 80.4 |
| 4/22/2015 1:13:45 | 47.24 | 42.34 | 1,454 | 3.23 | 0.15 | 79.5 |
| 4/22/2015 1:13:45 | 47.57 | 42.67 | 1,454 | 3.23 | 0.15 | 79.5 |
| 4/22/2015 1:13:45 | 47.90 | 43.00 | 1,496 | 3.22 | 0.15 | 81.8 |
| 4/22/2015 1:13:46 | 48.23 | 43.33 | 1,496 | 3.22 | 0.15 | 81.8 |
| 4/22/2015 1:13:46 | 48.56 | 43.66 | 1,449 | 3.25 | 0.15 | 79.2 |
| 4/22/2015 1:13:46 | 48.88 | 43.98 | 1,449 | 3.25 | 0.15 | 79.2 |
| 4/22/2015 1:13:46 | 49.21 | 44.31 | 1,449 | 3.25 | 0.15 | 79.2 |
| 4/22/2015 1:13:46 | 49.54 | 44.64 | 1,458 | 3.24 | 0.15 | 79.8 |
| 4/22/2015 1:13:47 | 49.87 | 44.97 | 1,458 | 3.24 | 0.15 | 79.8 |
| 4/22/2015 1:13:47 | 50.20 | 45.30 | 1,441 | 3.22 | 0.15 | 78.8 |
| 4/22/2015 1:13:47 | 50.53 | 45.63 | 1,441 | 3.22 | 0.15 | 78.8 |
| 4/22/2015 1:13:47 | 50.85 | 45.95 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/22/2015 1:13:48 | 51.18 | 46.28 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/22/2015 1:13:48 | 51.51 | 46.61 | 1,438 | 3.21 | 0.15 | 78.6 |
| 4/22/2015 1:13:48 | 51.84 | 46.94 | 1,438 | 3.21 | 0.15 | 78.6 |
| 4/22/2015 1:13:49 | 52.17 | 47.27 | 1,422 | 2.07 | 0.16 | 77.8 |
| 4/22/2015 1:14:07 | 52.49 | 47.59 | 60 | 1.91 | 1.23 | 3.3 |
| 4/22/2015 1:14:30 | 52.82 | 47.92 | 50 | 1.90 | 1.07 | 2.8 |
| 4/22/2015 1:14:35 | 53.15 | 48.25 | 50 | 2.07 | 1.18 | 2.7 |
| 4/22/2015 1:14:39 | 53.48 | 48.58 | 60 | 1.83 | 1.13 | 3.3 |
| 4/22/2015 1:15:02 | 53.81 | 48.91 | 11 | 1.57 | 1.07 | 0.6 |
| 4/22/2015 1:15:03 | 54.13 | 49.23 | 145 | 1.81 | 1.11 | 8.0 |
| 4/22/2015 1:15:04 | 54.46 | 49.56 | 261 | 1.63 | 1.02 | 14.3 |
| 4/22/2015 1:15:07 | 54.79 | 49.89 | 77 | 1.81 | 1.15 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:15:08 | 55.12 | 50.22 | 197 | 1.81 | 1.17 | 10.8 |
| 4/22/2015 | 1:15:09 | 55.45 | 50.55 | 312 | 1.78 | 1.08 | 17.0 |
| 4/22/2015 | 1:15:11 | 55.77 | 50.87 | 262 | 1.87 | 1.13 | 14.3 |
| 4/22/2015 | 1:15:15 | 56.10 | 51.20 | 0 | 3.32 | 1.08 | 0.0 |
| 4/22/2015 | 1:15:16 | 56.43 | 51.53 | 208 | 1.66 | 1.01 | 11.4 |
| 4/22/2015 | 1:15:17 | 56.76 | 51.86 | 379 | 1.56 | 1.02 | 20.7 |
| 4/22/2015 | 1:15:26 | 57.09 | 52.19 | 14 | 3.33 | 0.95 | 0.8 |
| 4/22/2015 | 1:15:26 | 57.41 | 52.51 | 220 | 1.57 | 1.01 | 12.0 |
| 4/22/2015 | 1:15:27 | 57.74 | 52.84 | 402 | 1.84 | 1.00 | 22.0 |
| 4/22/2015 | 1:15:35 | 58.07 | 53.17 | 0 | 1.92 | 0.95 | 0.0 |
| 4/22/2015 | 1:15:36 | 58.40 | 53.50 | 99 | 1.54 | 1.01 | 5.4 |
| 4/22/2015 | 1:15:37 | 58.73 | 53.83 | 165 | 1.80 | 0.98 | 9.0 |
| 4/22/2015 | 1:15:44 | 59.06 | 54.16 | 0 | 2.33 | 0.96 | 0.0 |
| 4/22/2015 | 1:15:45 | 59.38 | 54.48 | 0 | 1.79 | 1.00 | 0.0 |
| 4/22/2015 | 1:15:47 | 59.58 | 54.68 | 92 | 1.79 | 0.93 | 5.1 |

## E49 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:12:04

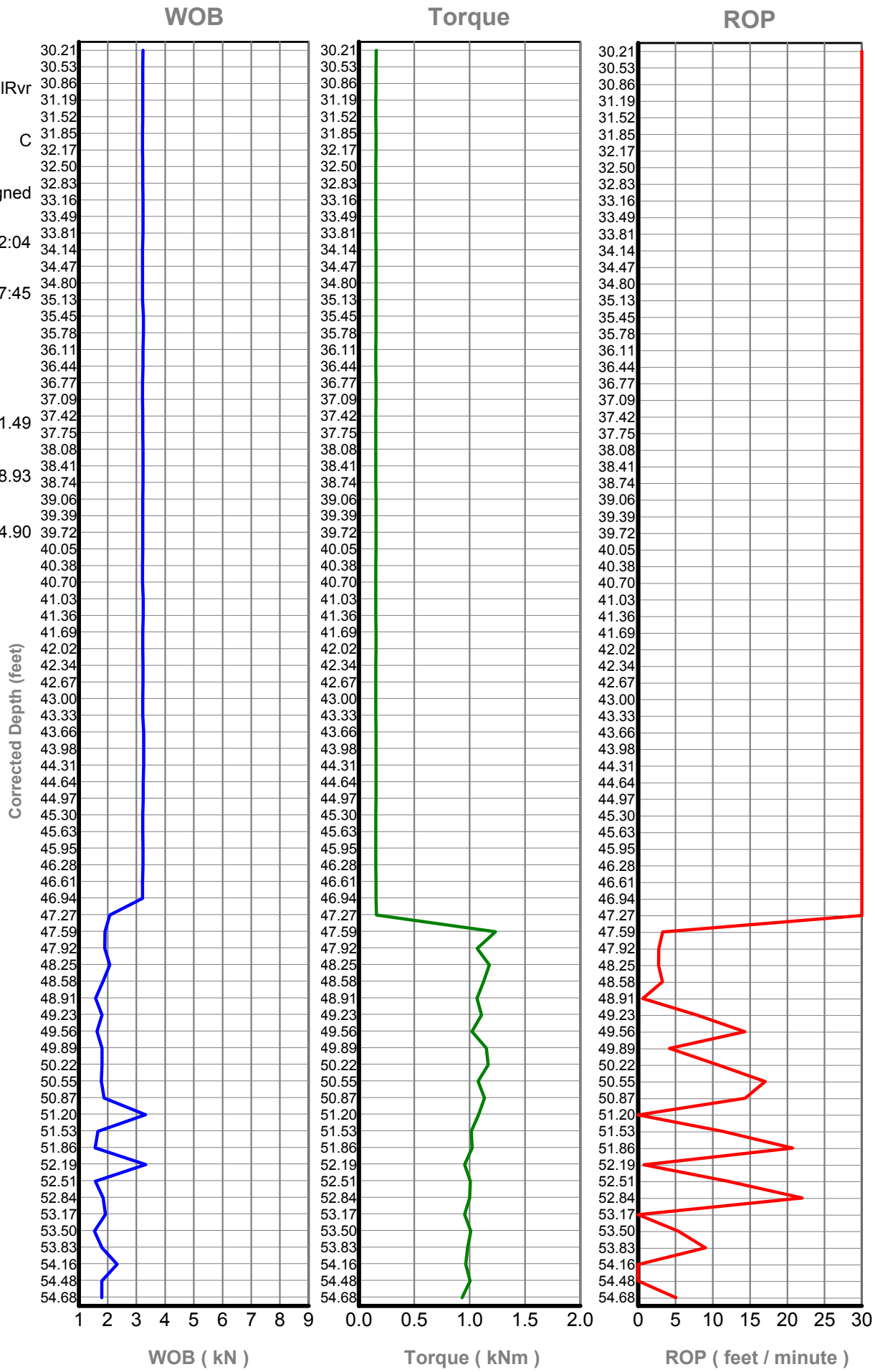
**End Date:**
4/22/2015 1:17:45

**Operator Note:**
'4.9 '0 4.6 c Auto Complete'

**Northing:**
368,241.49

**Easting:**
252,598.93

**Tide (feet):**
4.90



## Hole: E5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 14:08:25 | 37.40 | 30.10 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:25 | 37.73 | 30.43 | 971 | 0.26 | 0.33 | 53.1 |
| 4/20/2015 14:08:26 | 38.06 | 30.76 | 971 | 0.26 | 0.33 | 53.1 |
| 4/20/2015 14:08:26 | 38.39 | 31.09 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:26 | 38.71 | 31.41 | 977 | 0.33 | 0.33 | 53.4 |
| 4/20/2015 14:08:27 | 39.04 | 31.74 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:27 | 39.37 | 32.07 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:27 | 39.70 | 32.40 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:28 | 40.03 | 32.73 | 983 | 0.33 | 0.33 | 53.7 |
| 4/20/2015 14:08:28 | 40.35 | 33.05 | 983 | 0.33 | 0.33 | 53.7 |
| 4/20/2015 14:08:28 | 40.68 | 33.38 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:29 | 41.01 | 33.71 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:08:29 | 41.34 | 34.04 | 980 | 0.33 | 0.33 | 53.6 |
| 4/20/2015 14:09:27 | 41.67 | 34.37 | 38 | 4.35 | 0.41 | 2.1 |
| 4/20/2015 14:09:29 | 41.99 | 34.69 | 174 | 3.12 | 0.37 | 9.5 |
| 4/20/2015 14:09:29 | 42.32 | 35.02 | 242 | 3.90 | 0.37 | 13.2 |
| 4/20/2015 14:09:30 | 42.65 | 35.35 | 365 | 4.36 | 0.39 | 19.9 |
| 4/20/2015 14:09:32 | 42.98 | 35.68 | 315 | 3.45 | 0.37 | 17.2 |
| 4/20/2015 14:09:33 | 43.31 | 36.01 | 288 | 2.93 | 0.37 | 15.8 |
| 4/20/2015 14:09:33 | 43.64 | 36.34 | 294 | 2.76 | 0.37 | 16.1 |
| 4/20/2015 14:09:35 | 43.96 | 36.66 | 387 | 2.92 | 0.36 | 21.2 |
| 4/20/2015 14:09:36 | 44.29 | 36.99 | 422 | 3.49 | 0.37 | 23.1 |
| 4/20/2015 14:09:36 | 44.62 | 37.32 | 451 | 2.76 | 0.36 | 24.7 |
| 4/20/2015 14:09:37 | 44.95 | 37.65 | 474 | 3.83 | 0.37 | 25.9 |
| 4/20/2015 14:09:37 | 45.28 | 37.98 | 488 | 2.38 | 0.37 | 26.7 |
| 4/20/2015 14:09:38 | 45.60 | 38.30 | 511 | 2.08 | 0.36 | 28.0 |
| 4/20/2015 14:09:39 | 45.93 | 38.63 | 517 | 2.02 | 0.37 | 28.3 |
| 4/20/2015 14:09:39 | 46.26 | 38.96 | 535 | 2.09 | 0.36 | 29.2 |
| 4/20/2015 14:09:40 | 46.59 | 39.29 | 530 | 5.40 | 0.42 | 29.0 |
| 4/20/2015 14:09:42 | 46.92 | 39.62 | 195 | 2.93 | 0.37 | 10.7 |
| 4/20/2015 14:09:44 | 47.24 | 39.94 | 209 | 3.33 | 0.40 | 11.4 |
| 4/20/2015 14:10:02 | 47.57 | 40.27 | 0 | 4.40 | 0.40 | 0.0 |
| 4/20/2015 14:10:06 | 47.90 | 40.60 | 69 | 3.51 | 0.39 | 3.8 |
| 4/20/2015 14:10:07 | 48.23 | 40.93 | 158 | 3.93 | 0.38 | 8.6 |
| 4/20/2015 14:10:09 | 48.56 | 41.26 | 250 | 4.19 | 0.39 | 13.7 |
| 4/20/2015 14:10:09 | 48.88 | 41.58 | 257 | 5.14 | 0.38 | 14.1 |
| 4/20/2015 14:10:10 | 49.21 | 41.91 | 333 | 3.71 | 0.39 | 18.2 |
| 4/20/2015 14:10:12 | 49.54 | 42.24 | 333 | 4.34 | 0.40 | 18.2 |
| 4/20/2015 14:10:14 | 49.87 | 42.57 | 182 | 4.11 | 0.39 | 10.0 |
| 4/20/2015 14:10:16 | 50.20 | 42.90 | 164 | 4.26 | 0.39 | 9.0 |
| 4/20/2015 14:10:18 | 50.53 | 43.23 | 181 | 4.11 | 0.40 | 9.9 |
| 4/20/2015 14:10:19 | 50.85 | 43.55 | 214 | 4.90 | 0.40 | 11.7 |
| 4/20/2015 14:10:21 | 51.18 | 43.88 | 268 | 6.24 | 0.37 | 14.6 |
| 4/20/2015 14:10:21 | 51.51 | 44.21 | 294 | 4.36 | 0.38 | 16.1 |
| 4/20/2015 14:10:22 | 51.84 | 44.54 | 382 | 3.04 | 0.38 | 20.9 |
| 4/20/2015 14:10:23 | 52.17 | 44.87 | 422 | 3.12 | 0.38 | 23.1 |
| 4/20/2015 14:10:24 | 52.49 | 45.19 | 385 | 4.07 | 0.38 | 21.1 |
| 4/20/2015 14:10:26 | 52.82 | 45.52 | 248 | 4.47 | 0.39 | 13.6 |
| 4/20/2015 14:10:28 | 53.15 | 45.85 | 191 | 4.81 | 0.41 | 10.4 |
| 4/20/2015 14:10:31 | 53.48 | 46.18 | 106 | 4.65 | 0.40 | 5.8 |
| 4/20/2015 14:10:36 | 53.81 | 46.51 | 64 | 4.34 | 0.40 | 3.5 |
| 4/20/2015 14:10:42 | 54.13 | 46.83 | 67 | 4.28 | 0.40 | 3.6 |
| 4/20/2015 14:10:47 | 54.46 | 47.16 | 72 | 3.93 | 0.41 | 4.0 |
| 4/20/2015 14:10:52 | 54.79 | 47.49 | 63 | 4.53 | 0.41 | 3.5 |
| 4/20/2015 14:10:59 | 55.12 | 47.82 | 55 | 3.81 | 0.41 | 3.0 |
| 4/20/2015 14:11:06 | 55.45 | 48.15 | 55 | 3.59 | 0.40 | 3.0 |
| 4/20/2015 14:11:12 | 55.77 | 48.47 | 63 | 3.98 | 0.40 | 3.4 |
| 4/20/2015 14:11:16 | 56.10 | 48.80 | 78 | 4.43 | 0.40 | 4.3 |
| 4/20/2015 14:11:21 | 56.43 | 49.13 | 76 | 4.39 | 0.40 | 4.2 |
| 4/20/2015 14:11:25 | 56.76 | 49.46 | 83 | 5.31 | 0.41 | 4.5 |
| 4/20/2015 14:16:46 | 57.09 | 49.79 | 7 | 5.06 | 0.41 | 0.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 14:32:40 | 57.41 | 50.11 | 41 | 3.28 | 0.40 | 2.2 |
| 4/20/2015 | 14:32:47 | 57.74 | 50.44 | 58 | 3.08 | 0.39 | 3.2 |
| 4/20/2015 | 14:32:53 | 58.07 | 50.77 | 64 | 3.41 | 0.39 | 3.5 |

## E5 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 14:05:29

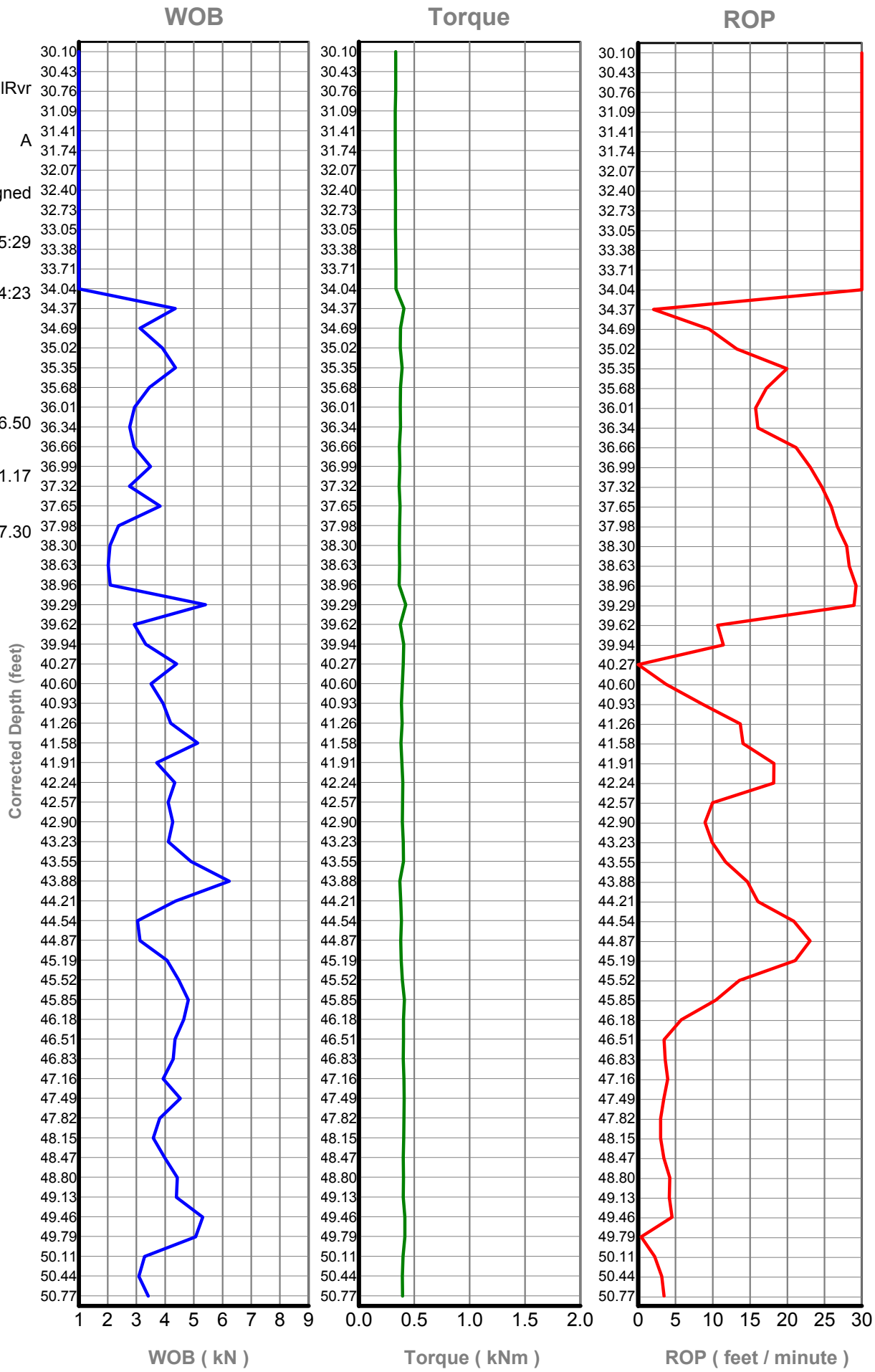
**End Date:**
4/20/2015 14:34:23

**Operator Note:**
'7.3 '6.8 7.3 b Auto Complete'

**Northing:**
368,946.50

**Easting:**
253,121.17

**Tide (feet):**
7.30



## Hole: E50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:05:54 | 34.78 | 30.18 | 1,414 | 3.24 | 0.15 | 77.3 |
| 4/22/2015 1:05:54 | 35.11 | 30.51 | 1,405 | 3.26 | 0.16 | 76.8 |
| 4/22/2015 1:05:54 | 35.43 | 30.83 | 1,405 | 3.26 | 0.16 | 76.8 |
| 4/22/2015 1:05:55 | 35.76 | 31.16 | 1,408 | 3.23 | 0.16 | 77.0 |
| 4/22/2015 1:05:55 | 36.09 | 31.49 | 1,408 | 3.23 | 0.16 | 77.0 |
| 4/22/2015 1:05:55 | 36.42 | 31.82 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 1:05:55 | 36.75 | 32.15 | 1,419 | 3.23 | 0.15 | 77.6 |
| 4/22/2015 1:05:56 | 37.07 | 32.47 | 1,408 | 3.23 | 0.15 | 77.0 |
| 4/22/2015 1:05:56 | 37.40 | 32.80 | 1,408 | 3.23 | 0.15 | 77.0 |
| 4/22/2015 1:05:56 | 37.73 | 33.13 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 1:05:56 | 38.06 | 33.46 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 1:05:57 | 38.39 | 33.79 | 1,411 | 3.23 | 0.16 | 77.1 |
| 4/22/2015 1:05:57 | 38.71 | 34.11 | 1,411 | 3.23 | 0.16 | 77.1 |
| 4/22/2015 1:05:57 | 39.04 | 34.44 | 1,377 | 3.27 | 0.15 | 75.3 |
| 4/22/2015 1:05:57 | 39.37 | 34.77 | 1,377 | 3.27 | 0.15 | 75.3 |
| 4/22/2015 1:05:58 | 39.70 | 35.10 | 1,377 | 3.24 | 0.16 | 75.3 |
| 4/22/2015 1:05:58 | 40.03 | 35.43 | 1,377 | 3.24 | 0.16 | 75.3 |
| 4/22/2015 1:05:58 | 40.35 | 35.75 | 1,392 | 3.23 | 0.16 | 76.1 |
| 4/22/2015 1:05:58 | 40.68 | 36.08 | 1,392 | 3.23 | 0.16 | 76.1 |
| 4/22/2015 1:05:59 | 41.01 | 36.41 | 1,396 | 3.24 | 0.14 | 76.3 |
| 4/22/2015 1:05:59 | 41.34 | 36.74 | 1,396 | 3.24 | 0.14 | 76.3 |
| 4/22/2015 1:05:59 | 41.67 | 37.07 | 1,386 | 3.26 | 0.15 | 75.8 |
| 4/22/2015 1:06:00 | 41.99 | 37.39 | 1,386 | 3.26 | 0.15 | 75.8 |
| 4/22/2015 1:06:00 | 42.32 | 37.72 | 1,386 | 3.24 | 0.16 | 75.8 |
| 4/22/2015 1:06:00 | 42.65 | 38.05 | 1,386 | 3.24 | 0.16 | 75.8 |
| 4/22/2015 1:06:00 | 42.98 | 38.38 | 1,392 | 3.23 | 0.15 | 76.1 |
| 4/22/2015 1:06:01 | 43.31 | 38.71 | 1,392 | 3.23 | 0.15 | 76.1 |
| 4/22/2015 1:06:01 | 43.64 | 39.04 | 1,422 | 3.23 | 0.15 | 77.8 |
| 4/22/2015 1:06:01 | 43.96 | 39.36 | 1,422 | 3.23 | 0.15 | 77.8 |
| 4/22/2015 1:06:01 | 44.29 | 39.69 | 1,401 | 3.25 | 0.16 | 76.6 |
| 4/22/2015 1:06:02 | 44.62 | 40.02 | 1,401 | 3.25 | 0.16 | 76.6 |
| 4/22/2015 1:06:02 | 44.95 | 40.35 | 1,398 | 3.24 | 0.16 | 76.5 |
| 4/22/2015 1:06:02 | 45.28 | 40.68 | 1,398 | 3.24 | 0.16 | 76.5 |
| 4/22/2015 1:06:02 | 45.60 | 41.00 | 1,416 | 3.25 | 0.15 | 77.4 |
| 4/22/2015 1:06:03 | 45.93 | 41.33 | 1,416 | 3.25 | 0.15 | 77.4 |
| 4/22/2015 1:06:03 | 46.26 | 41.66 | 1,416 | 3.25 | 0.15 | 77.4 |
| 4/22/2015 1:06:03 | 46.59 | 41.99 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 1:06:03 | 46.92 | 42.32 | 1,399 | 3.23 | 0.16 | 76.5 |
| 4/22/2015 1:06:03 | 47.24 | 42.64 | 1,414 | 3.22 | 0.16 | 77.3 |
| 4/22/2015 1:06:04 | 47.57 | 42.97 | 1,414 | 3.22 | 0.16 | 77.3 |
| 4/22/2015 1:06:04 | 47.90 | 43.30 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 1:06:04 | 48.23 | 43.63 | 1,408 | 3.24 | 0.16 | 77.0 |
| 4/22/2015 1:06:05 | 48.56 | 43.96 | 1,416 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 1:06:05 | 48.88 | 44.28 | 1,416 | 3.23 | 0.15 | 77.4 |
| 4/22/2015 1:06:05 | 49.21 | 44.61 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 1:06:05 | 49.54 | 44.94 | 1,408 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 1:06:06 | 49.87 | 45.27 | 1,411 | 2.48 | 0.16 | 77.1 |
| 4/22/2015 1:06:37 | 50.20 | 45.60 | 14 | 1.85 | 1.10 | 0.8 |
| 4/22/2015 1:06:38 | 50.53 | 45.93 | 120 | 2.08 | 1.09 | 6.6 |
| 4/22/2015 1:06:49 | 50.85 | 46.25 | 49 | 1.88 | 1.15 | 2.7 |
| 4/22/2015 1:06:57 | 51.18 | 46.58 | 26 | 1.87 | 1.21 | 1.4 |
| 4/22/2015 1:06:58 | 51.51 | 46.91 | 128 | 1.88 | 1.22 | 7.0 |
| 4/22/2015 1:07:00 | 51.84 | 47.24 | 265 | 2.12 | 1.24 | 14.5 |
| 4/22/2015 1:07:27 | 52.17 | 47.57 | 76 | 1.88 | 1.10 | 4.2 |
| 4/22/2015 1:07:28 | 52.49 | 47.89 | 200 | 3.32 | 1.07 | 10.9 |
| 4/22/2015 1:07:28 | 52.82 | 48.22 | 200 | 3.32 | 1.07 | 10.9 |
| 4/22/2015 1:07:32 | 53.15 | 48.55 | 31 | 3.12 | 1.19 | 1.7 |
| 4/22/2015 1:07:33 | 53.48 | 48.88 | 248 | 1.86 | 1.03 | 13.5 |
| 4/22/2015 1:07:34 | 53.81 | 49.21 | 348 | 3.26 | 0.93 | 19.0 |
| 4/22/2015 1:07:34 | 54.13 | 49.53 | 348 | 3.26 | 0.93 | 19.0 |
| 4/22/2015 1:07:34 | 54.46 | 49.86 | 568 | 3.33 | 1.01 | 31.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:07:45 | 54.79 | 50.19 | 26 | 1.70 | 1.00 | 1.4 |
| 4/22/2015 | 1:07:47 | 55.12 | 50.52 | 91 | 3.29 | 0.95 | 5.0 |
| 4/22/2015 | 1:07:50 | 55.45 | 50.85 | 134 | 1.84 | 1.18 | 7.3 |
| 4/22/2015 | 1:07:56 | 55.77 | 51.17 | 24 | 1.83 | 1.07 | 1.3 |
| 4/22/2015 | 1:07:57 | 56.10 | 51.50 | 132 | 1.78 | 1.01 | 7.2 |
| 4/22/2015 | 1:08:12 | 56.43 | 51.83 | 50 | 3.31 | 0.98 | 2.7 |
| 4/22/2015 | 1:08:13 | 56.76 | 52.16 | 176 | 3.31 | 1.00 | 9.6 |
| 4/22/2015 | 1:08:13 | 57.09 | 52.49 | 176 | 3.31 | 1.00 | 9.6 |
| 4/22/2015 | 1:08:13 | 57.41 | 52.81 | 376 | 3.36 | 1.03 | 20.6 |
| 4/22/2015 | 1:08:20 | 57.74 | 53.14 | 0 | 3.35 | 0.95 | 0.0 |
| 4/22/2015 | 1:08:21 | 58.07 | 53.47 | 65 | 2.03 | 1.04 | 3.6 |
| 4/22/2015 | 1:08:23 | 58.40 | 53.80 | 222 | 2.39 | 1.01 | 12.1 |
| 4/22/2015 | 1:08:39 | 58.73 | 54.13 | 0 | 3.32 | 0.99 | 0.0 |
| 4/22/2015 | 1:08:40 | 59.06 | 54.46 | 123 | 1.83 | 1.08 | 6.7 |
| 4/22/2015 | 1:08:43 | 59.38 | 54.78 | 84 | 2.02 | 1.02 | 4.6 |
| 4/22/2015 | 1:08:43 | 59.45 | 54.85 | 84 | 2.02 | 1.02 | 4.6 |

## E50 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:04:12

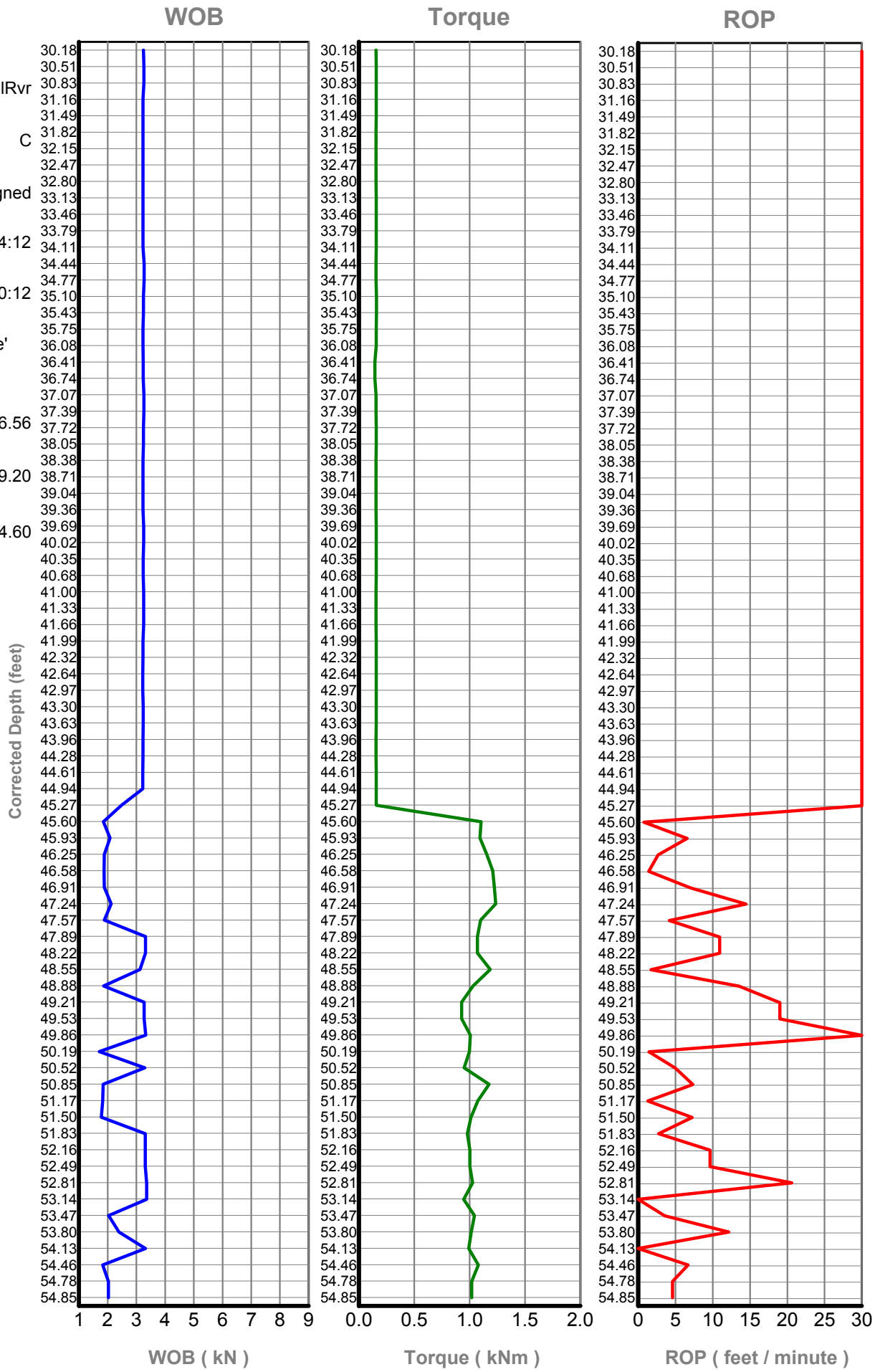
**End Date:**
4/22/2015 1:10:12

**Operator Note:**
'4.6 4.4 c Auto Complete'

**Northing:**
368,286.56

**Easting:**
252,659.20

**Tide (feet):**
4.60



## Hole: E51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:03:02 | 32.48 | 30.28 | 932 | 0.35 | 0.32 | 50.9 |
| 4/22/2015 0:03:03 | 32.81 | 30.61 | 969 | 0.35 | 0.32 | 53.0 |
| 4/22/2015 0:03:03 | 33.14 | 30.94 | 969 | 0.35 | 0.32 | 53.0 |
| 4/22/2015 0:03:03 | 33.46 | 31.26 | 948 | 0.34 | 0.33 | 51.8 |
| 4/22/2015 0:03:04 | 33.79 | 31.59 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:03:04 | 34.12 | 31.92 | 957 | 0.35 | 0.32 | 52.3 |
| 4/22/2015 0:03:05 | 34.45 | 32.25 | 957 | 0.35 | 0.32 | 52.3 |
| 4/22/2015 0:03:05 | 34.78 | 32.58 | 963 | 0.34 | 0.32 | 52.6 |
| 4/22/2015 0:03:05 | 35.11 | 32.91 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 0:03:06 | 35.43 | 33.23 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 0:03:06 | 35.76 | 33.56 | 957 | 0.35 | 0.32 | 52.3 |
| 4/22/2015 0:03:06 | 36.09 | 33.89 | 948 | 0.34 | 0.32 | 51.8 |
| 4/22/2015 0:03:07 | 36.42 | 34.22 | 957 | 0.34 | 0.33 | 52.3 |
| 4/22/2015 0:03:07 | 36.75 | 34.55 | 957 | 0.34 | 0.33 | 52.3 |
| 4/22/2015 0:03:07 | 37.07 | 34.87 | 951 | 0.35 | 0.32 | 52.0 |
| 4/22/2015 0:03:08 | 37.40 | 35.20 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 0:03:08 | 37.73 | 35.53 | 948 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:03:09 | 38.06 | 35.86 | 948 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:03:09 | 38.39 | 36.19 | 951 | 0.34 | 0.32 | 52.0 |
| 4/22/2015 0:03:09 | 38.71 | 36.51 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 0:03:10 | 39.04 | 36.84 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 0:03:10 | 39.37 | 37.17 | 954 | 0.33 | 0.32 | 52.2 |
| 4/22/2015 0:03:10 | 39.70 | 37.50 | 948 | 0.34 | 0.32 | 51.8 |
| 4/22/2015 0:03:11 | 40.03 | 37.83 | 960 | 0.34 | 0.32 | 52.5 |
| 4/22/2015 0:03:12 | 40.35 | 38.15 | 960 | 0.34 | 0.32 | 52.5 |
| 4/22/2015 0:03:12 | 40.68 | 38.48 | 957 | 0.35 | 0.32 | 52.3 |
| 4/22/2015 0:03:12 | 41.01 | 38.81 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 0:03:13 | 41.34 | 39.14 | 960 | 0.33 | 0.33 | 52.5 |
| 4/22/2015 0:03:13 | 41.67 | 39.47 | 957 | 0.34 | 0.32 | 52.3 |
| 4/22/2015 0:03:13 | 41.99 | 39.79 | 960 | 0.33 | 0.32 | 52.5 |
| 4/22/2015 0:03:14 | 42.32 | 40.12 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:03:14 | 42.65 | 40.45 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:03:14 | 42.98 | 40.78 | 954 | 0.33 | 0.32 | 52.2 |
| 4/22/2015 0:03:15 | 43.31 | 41.11 | 945 | 0.34 | 0.33 | 51.7 |
| 4/22/2015 0:03:15 | 43.64 | 41.44 | 945 | 0.34 | 0.33 | 51.7 |
| 4/22/2015 0:03:15 | 43.96 | 41.76 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:03:16 | 44.29 | 42.09 | 954 | 0.34 | 0.32 | 52.2 |
| 4/22/2015 0:03:16 | 44.62 | 42.42 | 954 | 0.33 | 0.32 | 52.2 |
| 4/22/2015 0:03:17 | 44.95 | 42.75 | 954 | 0.33 | 0.32 | 52.2 |
| 4/22/2015 0:03:17 | 45.28 | 43.08 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 0:03:17 | 45.60 | 43.40 | 959 | 0.34 | 0.33 | 52.5 |
| 4/22/2015 0:03:18 | 45.93 | 43.73 | 959 | 0.34 | 0.33 | 52.5 |
| 4/22/2015 0:03:18 | 46.26 | 44.06 | 945 | 0.34 | 0.32 | 51.7 |
| 4/22/2015 0:03:18 | 46.59 | 44.39 | 942 | 0.34 | 0.33 | 51.5 |
| 4/22/2015 0:03:19 | 46.92 | 44.72 | 937 | 0.31 | 0.33 | 51.2 |
| 4/22/2015 0:03:19 | 47.24 | 45.04 | 937 | 0.31 | 0.33 | 51.2 |
| 4/22/2015 0:03:19 | 47.57 | 45.37 | 948 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:03:20 | 47.90 | 45.70 | 940 | 0.33 | 0.33 | 51.4 |
| 4/22/2015 0:03:20 | 48.23 | 46.03 | 948 | 0.34 | 0.33 | 51.9 |
| 4/22/2015 0:03:21 | 48.56 | 46.36 | 948 | 0.34 | 0.33 | 51.9 |
| 4/22/2015 0:03:21 | 48.88 | 46.68 | 948 | 0.35 | 0.32 | 51.9 |
| 4/22/2015 0:03:21 | 49.21 | 47.01 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:03:22 | 49.54 | 47.34 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:03:22 | 49.87 | 47.67 | 945 | 0.35 | 0.33 | 51.7 |
| 4/22/2015 0:03:23 | 50.20 | 48.00 | 951 | 0.34 | 0.32 | 52.0 |
| 4/22/2015 0:03:23 | 50.53 | 48.33 | 948 | 0.35 | 0.33 | 51.9 |
| 4/22/2015 0:03:24 | 50.85 | 48.65 | 948 | 0.35 | 0.33 | 51.9 |
| 4/22/2015 0:03:24 | 51.18 | 48.98 | 951 | 0.33 | 0.33 | 52.0 |
| 4/22/2015 0:03:24 | 51.51 | 49.31 | 951 | 0.34 | 0.33 | 52.0 |
| 4/22/2015 0:03:25 | 51.84 | 49.64 | 951 | 0.34 | 0.33 | 52.0 |
| 4/22/2015 0:03:25 | 52.17 | 49.97 | 954 | 0.34 | 0.34 | 52.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:03:46 | 52.49 | 50.29 | 0 | 2.44 | 0.34 | 0.0 |
| 4/22/2015 | 0:03:47 | 52.82 | 50.62 | 103 | 3.00 | 0.36 | 5.6 |
| 4/22/2015 | 0:03:48 | 53.15 | 50.95 | 251 | 3.80 | 0.38 | 13.7 |
| 4/22/2015 | 0:03:51 | 53.48 | 51.28 | 136 | 4.87 | 0.42 | 7.5 |
| 4/22/2015 | 0:03:54 | 53.81 | 51.61 | 126 | 2.85 | 0.37 | 6.9 |
| 4/22/2015 | 0:03:55 | 54.13 | 51.93 | 227 | 2.47 | 0.37 | 12.4 |
| 4/22/2015 | 0:03:55 | 54.46 | 52.26 | 291 | 2.34 | 0.37 | 15.9 |
| 4/22/2015 | 0:04:15 | 54.79 | 52.59 | 9 | 2.40 | 0.37 | 0.5 |
| 4/22/2015 | 0:04:16 | 55.12 | 52.92 | 203 | 2.14 | 0.36 | 11.1 |
| 4/22/2015 | 0:04:16 | 55.45 | 53.25 | 318 | 2.21 | 0.36 | 17.4 |
| 4/22/2015 | 0:04:17 | 55.77 | 53.57 | 429 | 2.25 | 0.36 | 23.5 |
| 4/22/2015 | 0:04:17 | 56.10 | 53.90 | 529 | 2.25 | 0.36 | 28.9 |
| 4/22/2015 | 0:04:18 | 56.43 | 54.23 | 526 | 2.36 | 0.38 | 28.8 |
| 4/22/2015 | 0:04:20 | 56.76 | 54.56 | 251 | 2.67 | 0.40 | 13.7 |
| 4/22/2015 | 0:04:25 | 57.09 | 54.89 | 58 | 2.60 | 0.37 | 3.2 |
| 4/22/2015 | 0:04:26 | 57.41 | 55.21 | 96 | 2.44 | 0.37 | 5.3 |
| 4/22/2015 | 0:04:27 | 57.74 | 55.54 | 253 | 2.61 | 0.38 | 13.8 |

## E51 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:44:58

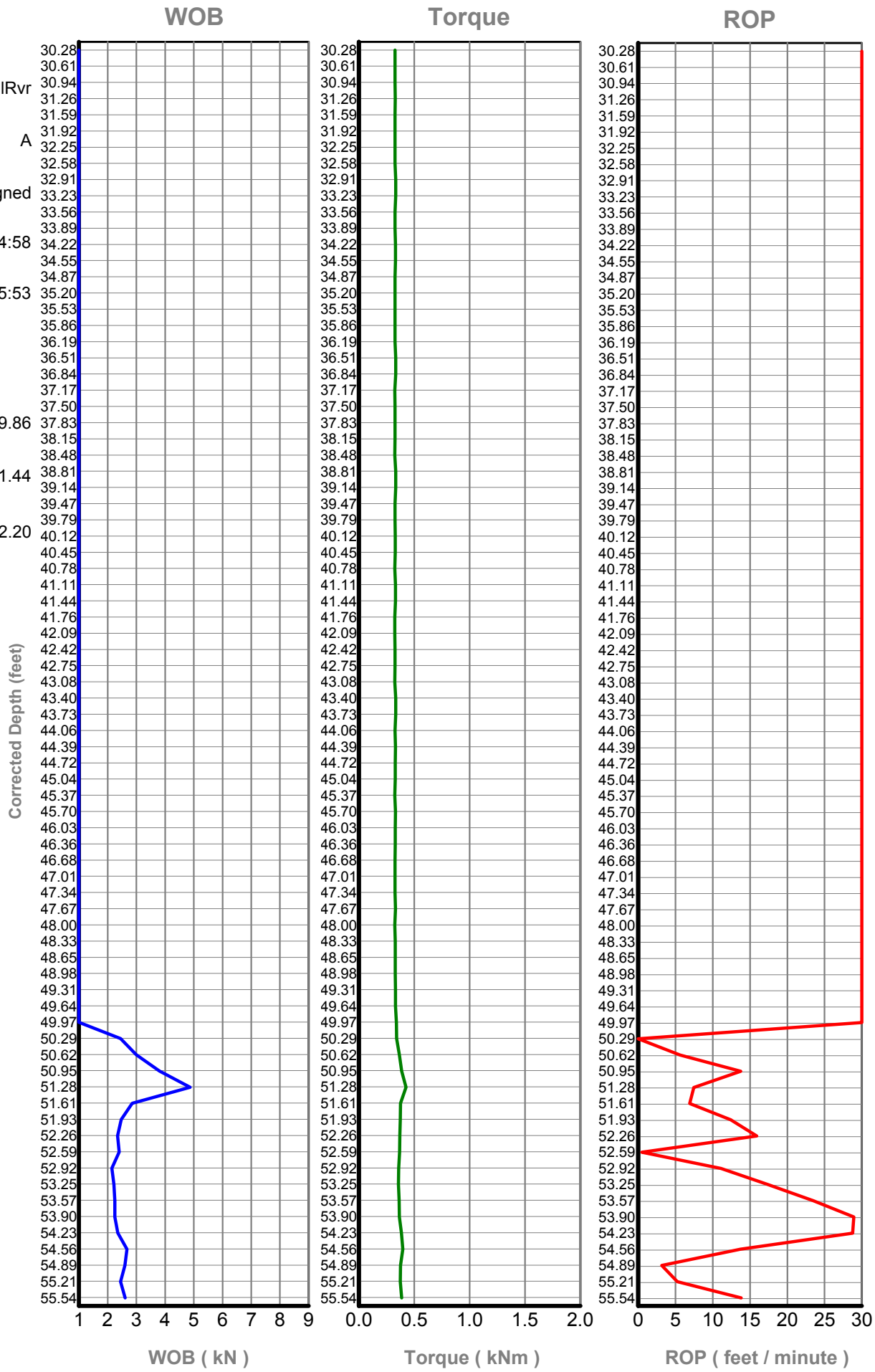
**End Date:**
4/22/2015 0:05:53

**Operator Note:**
'2.2 '2.9 2.5 b Auto Complete'

**Northing:**
368,349.86

**Easting:**
252,731.44

**Tide (feet):**
2.20



## Hole: E52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:10:39 | 33.14 | 30.24 | 989 | 0.33 | 0.32 | 54.1 |
| 4/22/2015 0:10:39 | 33.46 | 30.56 | 987 | 0.33 | 0.32 | 53.9 |
| 4/22/2015 0:10:40 | 33.79 | 30.89 | 948 | 0.33 | 0.32 | 51.8 |
| 4/22/2015 0:10:40 | 34.12 | 31.22 | 975 | 0.35 | 0.32 | 53.3 |
| 4/22/2015 0:10:41 | 34.45 | 31.55 | 975 | 0.35 | 0.32 | 53.3 |
| 4/22/2015 0:10:41 | 34.78 | 31.88 | 975 | 0.34 | 0.33 | 53.3 |
| 4/22/2015 0:10:41 | 35.11 | 32.21 | 956 | 0.32 | 0.33 | 52.3 |
| 4/22/2015 0:10:42 | 35.43 | 32.53 | 956 | 0.32 | 0.33 | 52.3 |
| 4/22/2015 0:10:42 | 35.76 | 32.86 | 956 | 0.32 | 0.32 | 52.3 |
| 4/22/2015 0:10:42 | 36.09 | 33.19 | 962 | 0.33 | 0.32 | 52.6 |
| 4/22/2015 0:10:43 | 36.42 | 33.52 | 962 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 0:10:43 | 36.75 | 33.85 | 962 | 0.33 | 0.33 | 52.6 |
| 4/22/2015 0:10:43 | 37.07 | 34.17 | 988 | 0.33 | 0.32 | 54.0 |
| 4/22/2015 0:10:44 | 37.40 | 34.50 | 982 | 0.38 | 0.32 | 53.7 |
| 4/22/2015 0:10:44 | 37.73 | 34.83 | 982 | 0.38 | 0.32 | 53.7 |
| 4/22/2015 0:10:44 | 38.06 | 35.16 | 973 | 0.33 | 0.32 | 53.2 |
| 4/22/2015 0:10:45 | 38.39 | 35.49 | 973 | 0.32 | 0.32 | 53.2 |
| 4/22/2015 0:10:45 | 38.71 | 35.81 | 957 | 0.32 | 0.32 | 52.4 |
| 4/22/2015 0:10:46 | 39.04 | 36.14 | 957 | 0.32 | 0.32 | 52.4 |
| 4/22/2015 0:10:46 | 39.37 | 36.47 | 957 | 0.33 | 0.36 | 52.4 |
| 4/22/2015 0:10:46 | 39.70 | 36.80 | 968 | 0.33 | 0.32 | 52.9 |
| 4/22/2015 0:10:47 | 40.03 | 37.13 | 968 | 0.33 | 0.32 | 52.9 |
| 4/22/2015 0:10:47 | 40.35 | 37.45 | 970 | 0.32 | 0.33 | 53.1 |
| 4/22/2015 0:10:47 | 40.68 | 37.78 | 965 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 0:10:48 | 41.01 | 38.11 | 965 | 0.33 | 0.32 | 52.7 |
| 4/22/2015 0:10:48 | 41.34 | 38.44 | 983 | 0.33 | 0.32 | 53.8 |
| 4/22/2015 0:10:48 | 41.67 | 38.77 | 979 | 0.33 | 0.32 | 53.5 |
| 4/22/2015 0:10:49 | 41.99 | 39.09 | 974 | 0.33 | 0.32 | 53.3 |
| 4/22/2015 0:10:49 | 42.32 | 39.42 | 974 | 0.33 | 0.32 | 53.3 |
| 4/22/2015 0:10:50 | 42.65 | 39.75 | 971 | 0.33 | 0.32 | 53.1 |
| 4/22/2015 0:10:50 | 42.98 | 40.08 | 971 | 0.33 | 0.32 | 53.1 |
| 4/22/2015 0:10:51 | 43.31 | 40.41 | 971 | 0.33 | 0.32 | 53.1 |
| 4/22/2015 0:10:51 | 43.64 | 40.74 | 968 | 0.33 | 0.32 | 52.9 |
| 4/22/2015 0:10:51 | 43.96 | 41.06 | 977 | 0.33 | 0.32 | 53.4 |
| 4/22/2015 0:10:52 | 44.29 | 41.39 | 977 | 0.33 | 0.32 | 53.4 |
| 4/22/2015 0:10:52 | 44.62 | 41.72 | 971 | 0.33 | 0.32 | 53.1 |
| 4/22/2015 0:10:52 | 44.95 | 42.05 | 968 | 0.34 | 0.32 | 53.0 |
| 4/22/2015 0:10:53 | 45.28 | 42.38 | 966 | 0.33 | 0.33 | 52.8 |
| 4/22/2015 0:10:53 | 45.60 | 42.70 | 966 | 0.33 | 0.33 | 52.8 |
| 4/22/2015 0:10:53 | 45.93 | 43.03 | 966 | 0.35 | 0.32 | 52.8 |
| 4/22/2015 0:10:54 | 46.26 | 43.36 | 960 | 0.33 | 0.32 | 52.5 |
| 4/22/2015 0:10:54 | 46.59 | 43.69 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:10:55 | 46.92 | 44.02 | 957 | 0.33 | 0.32 | 52.3 |
| 4/22/2015 0:10:55 | 47.24 | 44.34 | 954 | 0.33 | 0.33 | 52.2 |
| 4/22/2015 0:10:55 | 47.57 | 44.67 | 963 | 0.33 | 0.32 | 52.6 |
| 4/22/2015 0:10:56 | 47.90 | 45.00 | 963 | 0.33 | 0.32 | 52.6 |
| 4/22/2015 0:10:56 | 48.23 | 45.33 | 960 | 0.33 | 0.32 | 52.5 |
| 4/22/2015 0:10:56 | 48.56 | 45.66 | 960 | 0.33 | 0.34 | 52.5 |
| 4/22/2015 0:10:57 | 48.88 | 45.98 | 960 | 0.33 | 0.32 | 52.5 |
| 4/22/2015 0:10:57 | 49.21 | 46.31 | 960 | 0.33 | 0.32 | 52.5 |
| 4/22/2015 0:10:57 | 49.54 | 46.64 | 963 | 0.33 | 0.32 | 52.6 |
| 4/22/2015 0:10:58 | 49.87 | 46.97 | 963 | 0.33 | 0.34 | 52.6 |
| 4/22/2015 0:10:58 | 50.20 | 47.30 | 920 | 0.30 | 0.40 | 50.3 |
| 4/22/2015 0:11:30 | 50.53 | 47.63 | 14 | 3.70 | 0.36 | 0.8 |
| 4/22/2015 0:11:32 | 50.85 | 47.95 | 176 | 4.24 | 0.37 | 9.6 |
| 4/22/2015 0:11:34 | 51.18 | 48.28 | 179 | 3.52 | 0.37 | 9.8 |
| 4/22/2015 0:11:35 | 51.51 | 48.61 | 214 | 2.86 | 0.36 | 11.7 |
| 4/22/2015 0:11:41 | 51.84 | 48.94 | 0 | 1.98 | 0.34 | 0.0 |
| 4/22/2015 0:11:42 | 52.17 | 49.27 | 105 | 2.69 | 0.35 | 5.7 |
| 4/22/2015 0:11:42 | 52.49 | 49.59 | 236 | 3.21 | 0.37 | 12.9 |
| 4/22/2015 0:11:44 | 52.82 | 49.92 | 302 | 3.64 | 0.38 | 16.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:11:45 | 53.15 | 50.25 | 222 | 3.70 | 0.37 | 12.1 |
| 4/22/2015 | 0:11:46 | 53.48 | 50.58 | 267 | 2.52 | 0.37 | 14.6 |
| 4/22/2015 | 0:11:54 | 53.81 | 50.91 | 0 | 3.34 | 0.36 | 0.0 |
| 4/22/2015 | 0:11:55 | 54.13 | 51.23 | 188 | 2.98 | 0.37 | 10.3 |
| 4/22/2015 | 0:11:56 | 54.46 | 51.56 | 348 | 2.69 | 0.37 | 19.0 |
| 4/22/2015 | 0:11:56 | 54.79 | 51.89 | 442 | 2.23 | 0.36 | 24.2 |
| 4/22/2015 | 0:11:57 | 55.12 | 52.22 | 433 | 2.36 | 0.39 | 23.7 |
| 4/22/2015 | 0:11:58 | 55.45 | 52.55 | 439 | 2.42 | 0.37 | 24.0 |
| 4/22/2015 | 0:12:25 | 55.77 | 52.87 | 0 | 2.14 | 0.35 | 0.0 |
| 4/22/2015 | 0:12:26 | 56.10 | 53.20 | 71 | 2.45 | 0.37 | 3.9 |
| 4/22/2015 | 0:12:27 | 56.43 | 53.53 | 250 | 2.65 | 0.38 | 13.7 |
| 4/22/2015 | 0:12:29 | 56.76 | 53.86 | 237 | 2.56 | 0.38 | 12.9 |
| 4/22/2015 | 0:12:30 | 57.09 | 54.19 | 202 | 2.61 | 0.39 | 11.1 |
| 4/22/2015 | 0:12:32 | 57.41 | 54.51 | 205 | 2.56 | 0.39 | 11.2 |
| 4/22/2015 | 0:12:34 | 57.68 | 54.78 | 182 | 2.71 | 0.40 | 10.0 |

## E52 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 0:08:04

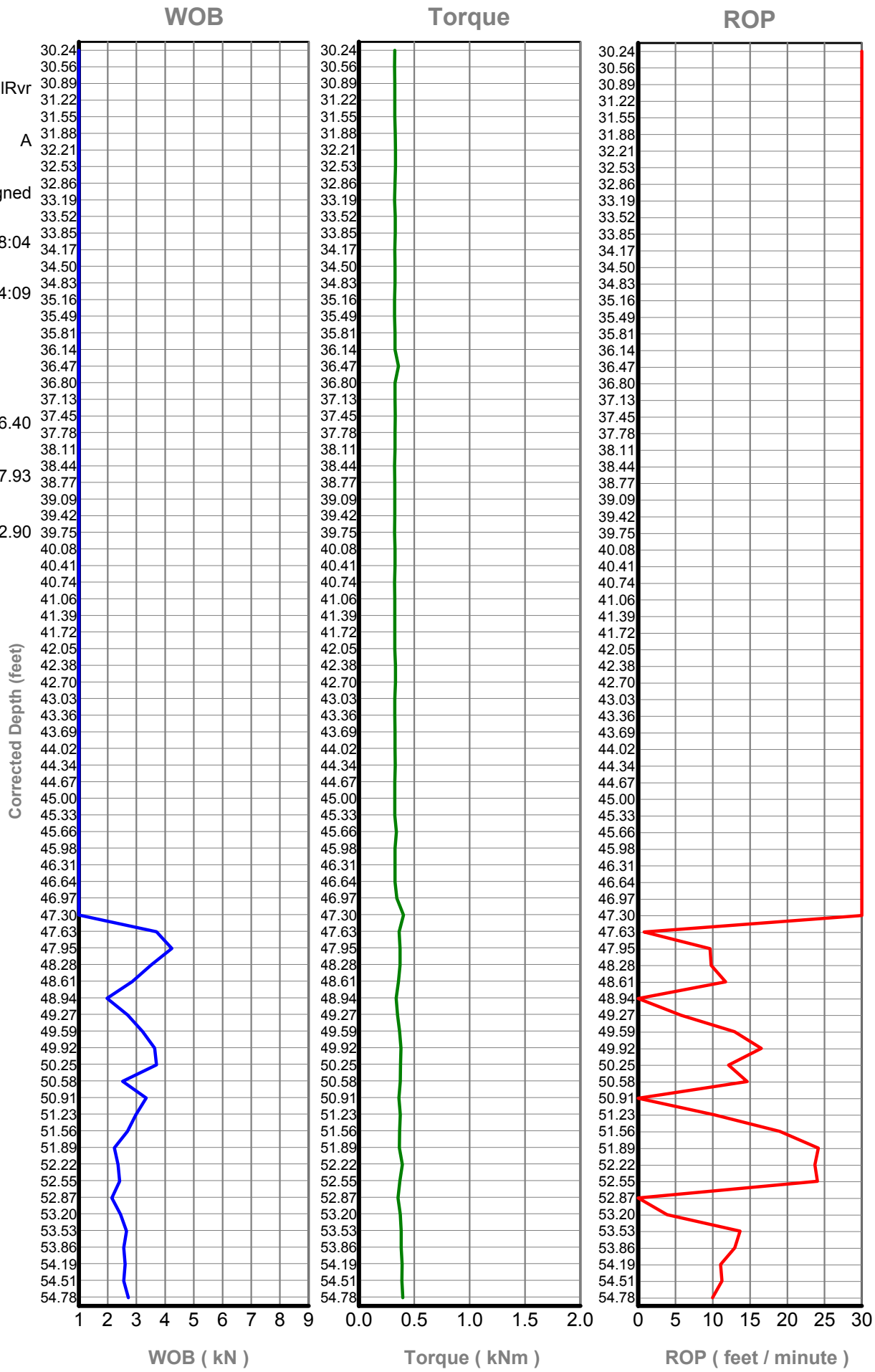
**End Date:**
4/22/2015 0:14:09

**Operator Note:**
'2.9 2.5 b Auto Complete'

**Northing:**
368,386.40

**Easting:**
252,777.93

**Tide (feet):**
2.90



## Hole: E53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 0:03:15 | 32.81 | 30.11 | 1,451 | 3.23 | 0.15 | 79.4 |
| 4/22/2015 0:03:15 | 33.14 | 30.44 | 1,451 | 3.23 | 0.15 | 79.4 |
| 4/22/2015 0:03:15 | 33.46 | 30.76 | 1,454 | 3.21 | 0.15 | 79.5 |
| 4/22/2015 0:03:15 | 33.79 | 31.09 | 1,454 | 3.21 | 0.15 | 79.5 |
| 4/22/2015 0:03:15 | 34.12 | 31.42 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 0:03:16 | 34.45 | 31.75 | 1,457 | 3.21 | 0.15 | 79.7 |
| 4/22/2015 0:03:16 | 34.78 | 32.08 | 1,457 | 3.26 | 0.15 | 79.7 |
| 4/22/2015 0:03:16 | 35.11 | 32.41 | 1,457 | 3.26 | 0.15 | 79.7 |
| 4/22/2015 0:03:24 | 35.43 | 32.73 | 0 | 3.23 | 0.15 | 0.0 |
| 4/22/2015 0:03:24 | 35.76 | 33.06 | 144 | 3.22 | 0.15 | 7.9 |
| 4/22/2015 0:03:24 | 36.09 | 33.39 | 144 | 3.22 | 0.15 | 7.9 |
| 4/22/2015 0:03:24 | 36.42 | 33.72 | 144 | 3.22 | 0.15 | 7.9 |
| 4/22/2015 0:03:24 | 36.75 | 34.05 | 436 | 3.22 | 0.15 | 23.8 |
| 4/22/2015 0:03:25 | 37.07 | 34.37 | 436 | 3.22 | 0.15 | 23.8 |
| 4/22/2015 0:03:25 | 37.40 | 34.70 | 733 | 3.24 | 0.15 | 40.1 |
| 4/22/2015 0:03:25 | 37.73 | 35.03 | 733 | 3.24 | 0.15 | 40.1 |
| 4/22/2015 0:03:25 | 38.06 | 35.36 | 1,036 | 3.22 | 0.15 | 56.6 |
| 4/22/2015 0:03:26 | 38.39 | 35.69 | 1,036 | 3.22 | 0.15 | 56.6 |
| 4/22/2015 0:03:26 | 38.71 | 36.01 | 1,327 | 3.22 | 0.15 | 72.6 |
| 4/22/2015 0:03:26 | 39.04 | 36.34 | 1,327 | 3.22 | 0.15 | 72.6 |
| 4/22/2015 0:03:26 | 39.37 | 36.67 | 1,474 | 3.26 | 0.15 | 80.6 |
| 4/22/2015 0:03:27 | 39.70 | 37.00 | 1,474 | 3.26 | 0.15 | 80.6 |
| 4/22/2015 0:03:27 | 40.03 | 37.33 | 1,489 | 3.69 | 0.16 | 81.4 |
| 4/22/2015 0:03:33 | 40.35 | 37.65 | 23 | 3.23 | 0.14 | 1.3 |
| 4/22/2015 0:03:34 | 40.68 | 37.98 | 23 | 3.23 | 0.14 | 1.3 |
| 4/22/2015 0:03:33 | 41.01 | 38.31 | 290 | 3.22 | 0.15 | 15.9 |
| 4/22/2015 0:03:34 | 41.34 | 38.64 | 290 | 3.22 | 0.15 | 15.9 |
| 4/22/2015 0:03:34 | 41.67 | 38.97 | 546 | 3.25 | 0.15 | 29.9 |
| 4/22/2015 0:03:34 | 41.99 | 39.29 | 546 | 3.25 | 0.15 | 29.9 |
| 4/22/2015 0:03:34 | 42.32 | 39.62 | 849 | 3.20 | 0.15 | 46.4 |
| 4/22/2015 0:03:35 | 42.65 | 39.95 | 849 | 3.20 | 0.15 | 46.4 |
| 4/22/2015 0:03:35 | 42.98 | 40.28 | 849 | 3.27 | 0.15 | 46.4 |
| 4/22/2015 0:03:35 | 43.31 | 40.61 | 849 | 3.27 | 0.15 | 46.4 |
| 4/22/2015 0:03:35 | 43.64 | 40.94 | 849 | 3.27 | 0.15 | 46.4 |
| 4/22/2015 0:03:35 | 43.96 | 41.26 | 1,151 | 3.26 | 0.15 | 63.0 |
| 4/22/2015 0:03:36 | 44.29 | 41.59 | 1,151 | 3.26 | 0.15 | 63.0 |
| 4/22/2015 0:03:36 | 44.62 | 41.92 | 1,423 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 0:03:36 | 44.95 | 42.25 | 1,423 | 3.22 | 0.15 | 77.8 |
| 4/22/2015 0:03:36 | 45.28 | 42.58 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/22/2015 0:03:37 | 45.60 | 42.90 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/22/2015 0:03:37 | 45.93 | 43.23 | 1,471 | 3.23 | 0.15 | 80.4 |
| 4/22/2015 0:03:37 | 46.26 | 43.56 | 1,471 | 3.23 | 0.15 | 80.4 |
| 4/22/2015 0:03:38 | 46.59 | 43.89 | 1,464 | 3.91 | 0.15 | 80.1 |
| 4/22/2015 0:03:46 | 46.92 | 44.22 | 0 | 3.21 | 0.14 | 0.0 |
| 4/22/2015 0:03:47 | 47.24 | 44.54 | 0 | 3.21 | 0.14 | 0.0 |
| 4/22/2015 0:03:46 | 47.57 | 44.87 | 109 | 3.23 | 0.15 | 6.0 |
| 4/22/2015 0:03:47 | 47.90 | 45.20 | 109 | 3.23 | 0.15 | 6.0 |
| 4/22/2015 0:03:47 | 48.23 | 45.53 | 401 | 1.95 | 0.15 | 21.9 |
| 4/22/2015 0:04:11 | 48.56 | 45.86 | 0 | 3.31 | 1.14 | 0.0 |
| 4/22/2015 0:04:18 | 48.88 | 46.18 | 22 | 3.28 | 1.00 | 1.2 |
| 4/22/2015 0:04:26 | 49.21 | 46.51 | 0 | 1.74 | 1.15 | 0.0 |
| 4/22/2015 0:04:39 | 49.54 | 46.84 | 0 | 3.33 | 0.90 | 0.0 |
| 4/22/2015 0:04:57 | 49.87 | 47.17 | 111 | 1.98 | 1.11 | 6.1 |
| 4/22/2015 0:04:58 | 50.20 | 47.50 | 180 | 3.10 | 1.12 | 9.9 |
| 4/22/2015 0:05:02 | 50.53 | 47.83 | 32 | 2.04 | 1.33 | 1.7 |
| 4/22/2015 0:05:04 | 50.85 | 48.15 | 142 | 1.92 | 1.05 | 7.8 |
| 4/22/2015 0:05:05 | 51.18 | 48.48 | 267 | 1.71 | 0.98 | 14.6 |
| 4/22/2015 0:05:11 | 51.51 | 48.81 | 0 | 3.27 | 1.07 | 0.0 |
| 4/22/2015 0:05:12 | 51.84 | 49.14 | 243 | 1.89 | 1.41 | 13.3 |
| 4/22/2015 0:05:13 | 52.17 | 49.47 | 243 | 1.89 | 1.41 | 13.3 |
| 4/22/2015 0:05:35 | 52.49 | 49.79 | 8 | 2.01 | 1.17 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 0:05:42 | 52.82 | 50.12 | 49 | 1.98 | 1.19 | 2.7 |
| 4/22/2015 | 0:05:49 | 53.15 | 50.45 | 55 | 2.00 | 1.18 | 3.0 |
| 4/22/2015 | 0:05:55 | 53.48 | 50.78 | 52 | 1.91 | 1.17 | 2.8 |
| 4/22/2015 | 0:05:57 | 53.60 | 50.90 | 52 | 1.85 | 1.19 | 2.8 |

## E53 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 0:02:12

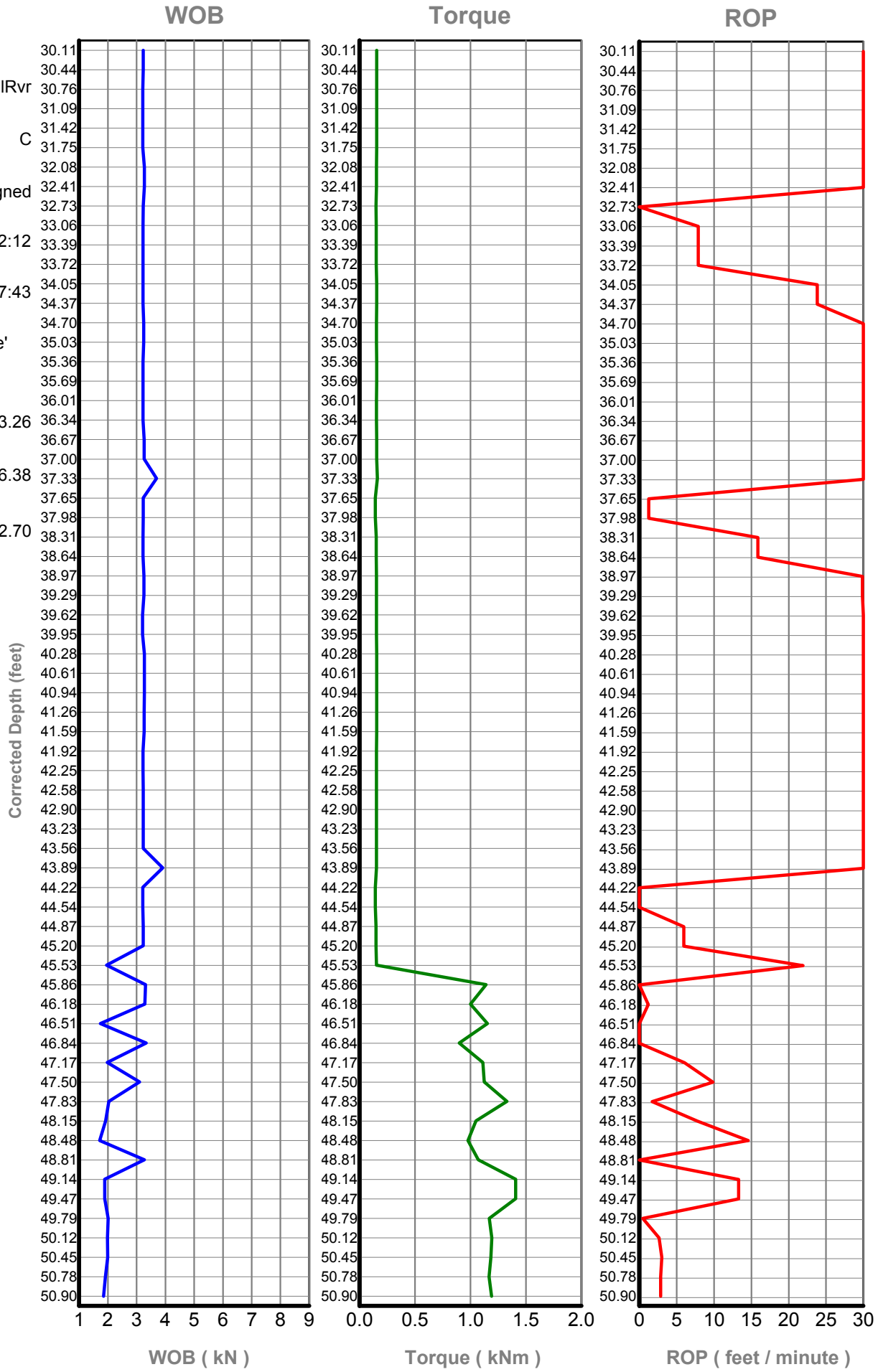
**End Date:**
4/22/2015 0:07:43

**Operator Note:**
'2.7 2.4 c Auto Complete'

**Northing:**
368,433.26

**Easting:**
252,836.38

**Tide (feet):**
2.70



## Hole: E54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:38:47 | 32.81 | 30.31 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 8:38:47 | 33.14 | 30.64 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 8:38:47 | 33.46 | 30.96 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:38:48 | 33.79 | 31.29 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:38:49 | 34.12 | 31.62 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:38:49 | 34.45 | 31.95 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:38:49 | 34.78 | 32.28 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:38:50 | 35.11 | 32.61 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:38:50 | 35.43 | 32.93 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:38:50 | 35.76 | 33.26 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:38:51 | 36.09 | 33.59 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:38:51 | 36.42 | 33.92 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:38:51 | 36.75 | 34.25 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:38:52 | 37.07 | 34.57 | 1,032 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:38:52 | 37.40 | 34.90 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:38:52 | 37.73 | 35.23 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:38:53 | 38.06 | 35.56 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:38:53 | 38.39 | 35.89 | 1,029 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:38:53 | 38.71 | 36.21 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:38:54 | 39.04 | 36.54 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:38:54 | 39.37 | 36.87 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:38:54 | 39.70 | 37.20 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:38:55 | 40.03 | 37.53 | 1,026 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:38:55 | 40.35 | 37.85 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:38:55 | 40.68 | 38.18 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:38:56 | 41.01 | 38.51 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:38:56 | 41.34 | 38.84 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:38:56 | 41.67 | 39.17 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:38:57 | 41.99 | 39.49 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:38:57 | 42.32 | 39.82 | 1,030 | 1.73 | 0.21 | 56.3 |
| 4/21/2015 8:38:57 | 42.65 | 40.15 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:38:58 | 42.98 | 40.48 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:38:58 | 43.31 | 40.81 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:38:58 | 43.64 | 41.14 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:38:59 | 43.96 | 41.46 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:39:00 | 44.29 | 41.79 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:38:59 | 44.62 | 42.12 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:39:00 | 44.95 | 42.45 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:01 | 45.28 | 42.78 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:01 | 45.60 | 43.10 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:39:01 | 45.93 | 43.43 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:02 | 46.26 | 43.76 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:02 | 46.59 | 44.09 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:39:02 | 46.92 | 44.42 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:39:03 | 47.24 | 44.74 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:39:03 | 47.57 | 45.07 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:39:03 | 47.90 | 45.40 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:04 | 48.23 | 45.73 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:39:04 | 48.56 | 46.06 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:39:04 | 48.88 | 46.38 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:39:05 | 49.21 | 46.71 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:39:05 | 49.54 | 47.04 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:39:05 | 49.87 | 47.37 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:39:06 | 50.20 | 47.70 | 1,011 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:39:06 | 50.53 | 48.03 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:39:15 | 50.85 | 48.35 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 8:39:16 | 51.18 | 48.68 | 85 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 8:39:17 | 51.51 | 49.01 | 174 | 1.73 | 0.21 | 9.5 |
| 4/21/2015 8:39:17 | 51.84 | 49.34 | 276 | 1.73 | 0.21 | 15.1 |
| 4/21/2015 8:39:19 | 52.17 | 49.67 | 327 | 1.73 | 0.21 | 17.9 |
| 4/21/2015 8:39:21 | 52.49 | 49.99 | 281 | 1.73 | 0.21 | 15.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:39:23 | 52.82 | 50.32 | 223 | 1.73 | 0.21 | 12.2 |
| 4/21/2015 | 8:39:33 | 53.15 | 50.65 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 8:39:37 | 53.48 | 50.98 | 113 | 1.73 | 0.21 | 6.2 |
| 4/21/2015 | 8:39:42 | 53.81 | 51.31 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 8:39:47 | 54.13 | 51.63 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 8:39:51 | 54.46 | 51.96 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 8:39:55 | 54.79 | 52.29 | 86 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 8:40:01 | 55.12 | 52.62 | 65 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 8:40:05 | 55.45 | 52.95 | 74 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:40:10 | 55.77 | 53.27 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:40:14 | 56.10 | 53.60 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 8:40:19 | 56.43 | 53.93 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:40:26 | 56.76 | 54.26 | 47 | 1.73 | 0.21 | 2.5 |
| 4/21/2015 | 8:40:32 | 57.09 | 54.59 | 58 | 1.73 | 0.21 | 3.2 |
| 4/21/2015 | 8:40:34 | 57.24 | 54.74 | 72 | 1.73 | 0.21 | 3.9 |

## E54 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/21/2015 8:37:51

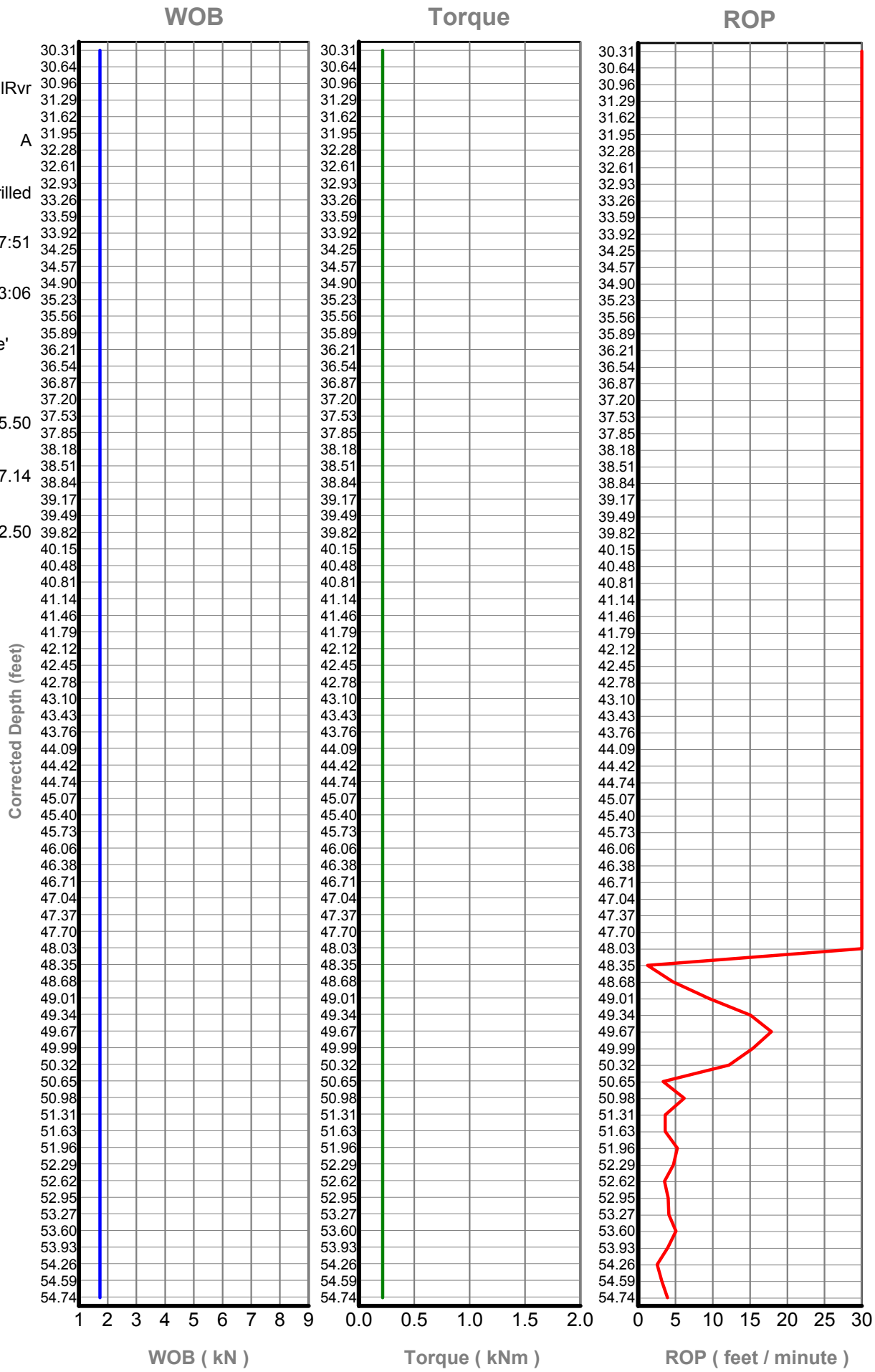
**End Date:**
4/21/2015 8:43:06

**Operator Note:**
'2.5 2.2 b Auto Complete'

**Northing:**
368,495.50

**Easting:**
252,917.14

**Tide (feet):**
2.50



## Hole: E55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:30:53 | 32.81 | 30.21 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:30:53 | 33.14 | 30.54 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:30:53 | 33.46 | 30.86 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:30:54 | 33.79 | 31.19 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:30:54 | 34.12 | 31.52 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:30:54 | 34.45 | 31.85 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:30:55 | 34.78 | 32.18 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:30:55 | 35.11 | 32.51 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:30:55 | 35.43 | 32.83 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:30:56 | 35.76 | 33.16 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 8:30:56 | 36.09 | 33.49 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 8:30:56 | 36.42 | 33.82 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 8:30:57 | 36.75 | 34.15 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:30:57 | 37.07 | 34.47 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 8:30:58 | 37.40 | 34.80 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 8:30:58 | 37.73 | 35.13 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 8:30:58 | 38.06 | 35.46 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:30:59 | 38.39 | 35.79 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:30:59 | 38.71 | 36.11 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:31:00 | 39.04 | 36.44 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:31:00 | 39.37 | 36.77 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:31:00 | 39.70 | 37.10 | 983 | 1.73 | 0.21 | 53.8 |
| 4/21/2015 8:31:01 | 40.03 | 37.43 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 8:31:01 | 40.35 | 37.75 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:31:02 | 40.68 | 38.08 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:31:02 | 41.01 | 38.41 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:31:02 | 41.34 | 38.74 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 8:31:03 | 41.67 | 39.07 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 8:31:03 | 41.99 | 39.39 | 968 | 1.73 | 0.21 | 53.0 |
| 4/21/2015 8:31:03 | 42.32 | 39.72 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:31:04 | 42.65 | 40.05 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 8:31:04 | 42.98 | 40.38 | 978 | 1.73 | 0.21 | 53.5 |
| 4/21/2015 8:31:04 | 43.31 | 40.71 | 977 | 1.73 | 0.21 | 53.4 |
| 4/21/2015 8:31:05 | 43.64 | 41.04 | 981 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:31:05 | 43.96 | 41.36 | 981 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 8:31:05 | 44.29 | 41.69 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 8:31:06 | 44.62 | 42.02 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 8:31:06 | 44.95 | 42.35 | 998 | 1.73 | 0.21 | 54.6 |
| 4/21/2015 8:31:06 | 45.28 | 42.68 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 8:31:07 | 45.60 | 43.00 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:31:07 | 45.93 | 43.33 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:31:07 | 46.26 | 43.66 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:31:08 | 46.59 | 43.99 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:31:08 | 46.92 | 44.32 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:31:08 | 47.24 | 44.64 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:31:09 | 47.57 | 44.97 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:31:09 | 47.90 | 45.30 | 1,017 | 1.73 | 0.21 | 55.6 |
| 4/21/2015 8:31:09 | 48.23 | 45.63 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:31:10 | 48.56 | 45.96 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:31:11 | 48.88 | 46.28 | 1,020 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:31:11 | 49.21 | 46.61 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:31:11 | 49.54 | 46.94 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:31:11 | 49.87 | 47.27 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:31:12 | 50.20 | 47.60 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:31:12 | 50.53 | 47.93 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:31:13 | 50.85 | 48.25 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 8:31:13 | 51.18 | 48.58 | 917 | 1.73 | 0.21 | 50.2 |
| 4/21/2015 8:31:28 | 51.51 | 48.91 | 42 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 8:31:29 | 51.84 | 49.24 | 166 | 1.73 | 0.21 | 9.1 |
| 4/21/2015 8:31:29 | 52.17 | 49.57 | 312 | 1.73 | 0.21 | 17.1 |
| 4/21/2015 8:31:30 | 52.49 | 49.89 | 441 | 1.73 | 0.21 | 24.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:31:31 | 52.82 | 50.22 | 552 | 1.73 | 0.21 | 30.2 |
| 4/21/2015 | 8:31:32 | 53.15 | 50.55 | 505 | 1.73 | 0.21 | 27.6 |
| 4/21/2015 | 8:31:34 | 53.48 | 50.88 | 339 | 1.73 | 0.21 | 18.5 |
| 4/21/2015 | 8:31:36 | 53.81 | 51.21 | 200 | 1.73 | 0.21 | 10.9 |
| 4/21/2015 | 8:31:47 | 54.13 | 51.53 | 102 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 | 8:31:51 | 54.46 | 51.86 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 8:31:55 | 54.79 | 52.19 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 8:32:01 | 55.12 | 52.52 | 71 | 1.73 | 0.21 | 3.9 |
| 4/21/2015 | 8:32:06 | 55.45 | 52.85 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 8:32:11 | 55.77 | 53.17 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:32:16 | 56.10 | 53.50 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 8:32:21 | 56.43 | 53.83 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:32:25 | 56.76 | 54.16 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:32:30 | 57.09 | 54.49 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:32:36 | 57.41 | 54.81 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 8:32:41 | 57.68 | 55.08 | 61 | 1.73 | 0.21 | 3.3 |

## E55 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:30:08

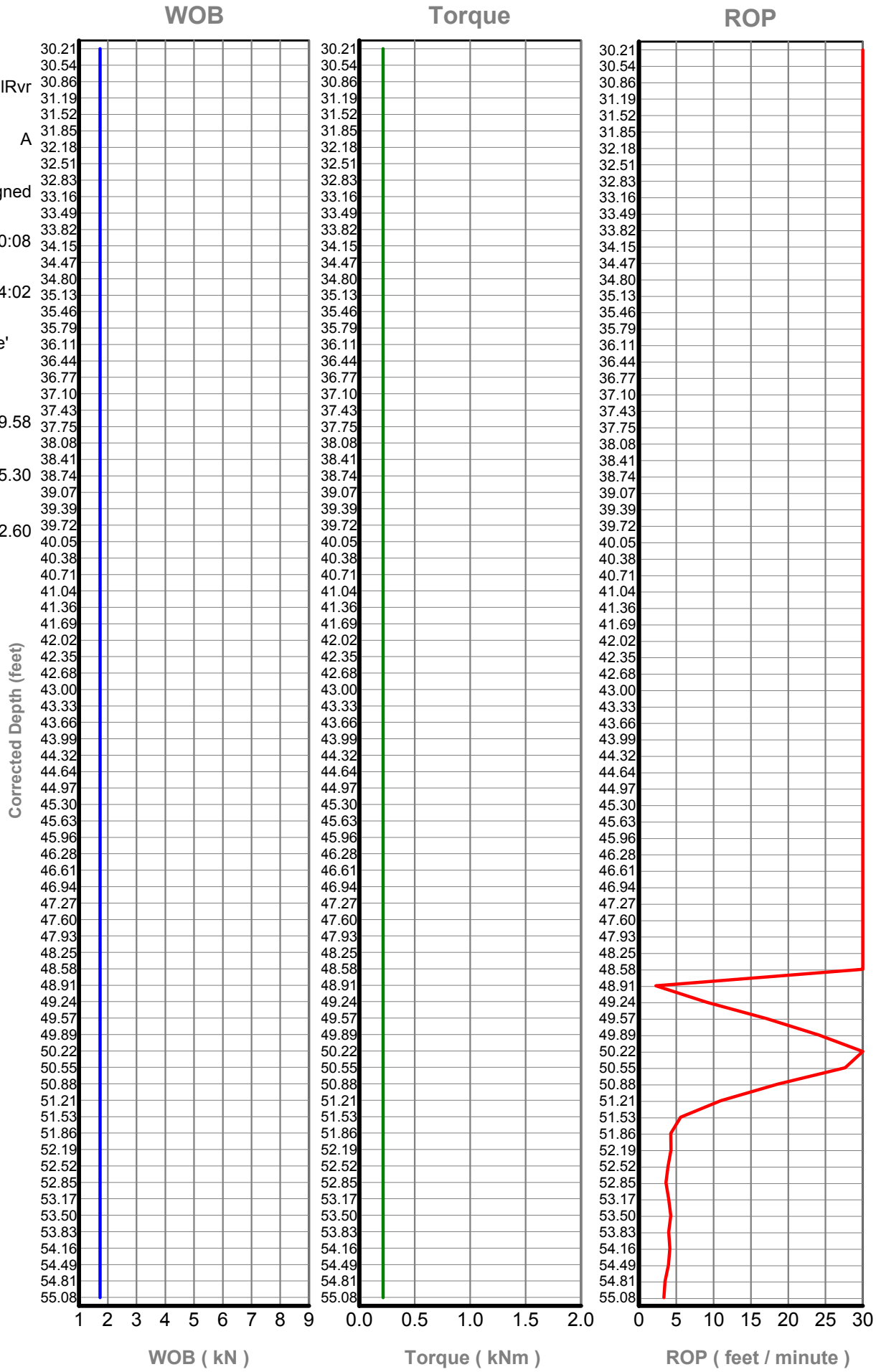
**End Date:**
4/21/2015 8:34:02

**Operator Note:**
'2.6 2.7 b Auto Complete'

**Northing:**
368,529.58

**Easting:**
252,965.30

**Tide (feet):**
2.60



## Hole: E56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:33:19 | 32.81 | 30.21 | 311 | 1.34 | 0.27 | 17.0 |
| 4/21/2015 8:33:20 | 33.14 | 30.54 | 309 | 1.35 | 0.27 | 16.9 |
| 4/21/2015 8:33:21 | 33.46 | 30.86 | 300 | 1.43 | 0.26 | 16.4 |
| 4/21/2015 8:33:23 | 33.79 | 31.19 | 308 | 1.40 | 0.28 | 16.9 |
| 4/21/2015 8:33:24 | 34.12 | 31.52 | 304 | 1.40 | 0.27 | 16.6 |
| 4/21/2015 8:33:25 | 34.45 | 31.85 | 298 | 1.37 | 0.27 | 16.3 |
| 4/21/2015 8:33:26 | 34.78 | 32.18 | 310 | 1.42 | 0.27 | 16.9 |
| 4/21/2015 8:33:27 | 35.11 | 32.51 | 310 | 1.37 | 0.27 | 17.0 |
| 4/21/2015 8:33:29 | 35.43 | 32.83 | 307 | 1.40 | 0.26 | 16.8 |
| 4/21/2015 8:33:30 | 35.76 | 33.16 | 303 | 1.38 | 0.27 | 16.6 |
| 4/21/2015 8:33:31 | 36.09 | 33.49 | 311 | 1.33 | 0.26 | 17.0 |
| 4/21/2015 8:33:32 | 36.42 | 33.82 | 306 | 1.40 | 0.27 | 16.8 |
| 4/21/2015 8:33:33 | 36.75 | 34.15 | 306 | 1.39 | 0.26 | 16.8 |
| 4/21/2015 8:33:35 | 37.07 | 34.47 | 307 | 1.42 | 0.27 | 16.8 |
| 4/21/2015 8:33:36 | 37.40 | 34.80 | 309 | 1.34 | 0.27 | 16.9 |
| 4/21/2015 8:33:37 | 37.73 | 35.13 | 305 | 1.40 | 0.27 | 16.7 |
| 4/21/2015 8:33:38 | 38.06 | 35.46 | 309 | 1.38 | 0.27 | 16.9 |
| 4/21/2015 8:33:39 | 38.39 | 35.79 | 309 | 1.43 | 0.26 | 16.9 |
| 4/21/2015 8:33:40 | 38.71 | 36.11 | 306 | 1.37 | 0.26 | 16.8 |
| 4/21/2015 8:33:41 | 39.04 | 36.44 | 306 | 1.38 | 0.26 | 16.8 |
| 4/21/2015 8:33:43 | 39.37 | 36.77 | 306 | 1.37 | 0.27 | 16.8 |
| 4/21/2015 8:33:44 | 39.70 | 37.10 | 308 | 1.41 | 0.26 | 16.8 |
| 4/21/2015 8:33:45 | 40.03 | 37.43 | 308 | 1.39 | 0.26 | 16.8 |
| 4/21/2015 8:33:46 | 40.35 | 37.75 | 307 | 1.34 | 0.26 | 16.8 |
| 4/21/2015 8:33:47 | 40.68 | 38.08 | 306 | 1.32 | 0.26 | 16.7 |
| 4/21/2015 8:33:48 | 41.01 | 38.41 | 308 | 1.37 | 0.26 | 16.9 |
| 4/21/2015 8:33:50 | 41.34 | 38.74 | 308 | 1.37 | 0.26 | 16.9 |
| 4/21/2015 8:33:51 | 41.67 | 39.07 | 306 | 1.36 | 0.26 | 16.8 |
| 4/21/2015 8:33:52 | 41.99 | 39.39 | 305 | 1.41 | 0.26 | 16.7 |
| 4/21/2015 8:33:53 | 42.32 | 39.72 | 304 | 1.38 | 0.26 | 16.6 |
| 4/21/2015 8:33:55 | 42.65 | 40.05 | 305 | 1.43 | 0.26 | 16.7 |
| 4/21/2015 8:33:56 | 42.98 | 40.38 | 306 | 1.38 | 0.26 | 16.8 |
| 4/21/2015 8:33:57 | 43.31 | 40.71 | 306 | 1.41 | 0.26 | 16.8 |
| 4/21/2015 8:33:58 | 43.64 | 41.04 | 302 | 1.42 | 0.26 | 16.5 |
| 4/21/2015 8:33:59 | 43.96 | 41.36 | 301 | 1.41 | 0.26 | 16.4 |
| 4/21/2015 8:34:00 | 44.29 | 41.69 | 307 | 1.38 | 0.26 | 16.8 |
| 4/21/2015 8:34:01 | 44.62 | 42.02 | 304 | 1.38 | 0.26 | 16.6 |
| 4/21/2015 8:34:02 | 44.95 | 42.35 | 304 | 1.34 | 0.26 | 16.6 |
| 4/21/2015 8:34:04 | 45.28 | 42.68 | 302 | 1.40 | 0.26 | 16.5 |
| 4/21/2015 8:34:05 | 45.60 | 43.00 | 304 | 1.44 | 0.26 | 16.6 |
| 4/21/2015 8:34:06 | 45.93 | 43.33 | 304 | 1.35 | 0.26 | 16.6 |
| 4/21/2015 8:34:07 | 46.26 | 43.66 | 306 | 1.40 | 0.26 | 16.8 |
| 4/21/2015 8:34:09 | 46.59 | 43.99 | 306 | 1.45 | 0.26 | 16.8 |
| 4/21/2015 8:34:10 | 46.92 | 44.32 | 304 | 1.39 | 0.26 | 16.6 |
| 4/21/2015 8:34:11 | 47.24 | 44.64 | 305 | 1.49 | 0.26 | 16.7 |
| 4/21/2015 8:34:12 | 47.57 | 44.97 | 304 | 1.39 | 0.26 | 16.6 |
| 4/21/2015 8:34:13 | 47.90 | 45.30 | 305 | 1.37 | 0.26 | 16.7 |
| 4/21/2015 8:34:14 | 48.23 | 45.63 | 304 | 1.43 | 0.26 | 16.6 |
| 4/21/2015 8:34:16 | 48.56 | 45.96 | 272 | 1.53 | 0.26 | 14.9 |
| 4/21/2015 8:34:21 | 48.88 | 46.28 | 25 | 1.55 | 1.05 | 1.3 |
| 4/21/2015 8:34:29 | 49.21 | 46.61 | 19 | 1.59 | 1.22 | 1.0 |
| 4/21/2015 8:34:31 | 49.54 | 46.94 | 84 | 1.61 | 1.16 | 4.6 |
| 4/21/2015 8:34:32 | 49.87 | 47.27 | 189 | 1.51 | 1.14 | 10.3 |
| 4/21/2015 8:34:34 | 50.20 | 47.60 | 257 | 1.54 | 1.07 | 14.1 |
| 4/21/2015 8:34:36 | 50.53 | 47.93 | 196 | 1.61 | 1.41 | 10.7 |
| 4/21/2015 8:34:40 | 50.85 | 48.25 | 100 | 1.57 | 1.09 | 5.5 |
| 4/21/2015 8:34:42 | 51.18 | 48.58 | 178 | 1.57 | 1.13 | 9.7 |
| 4/21/2015 8:34:44 | 51.51 | 48.91 | 155 | 1.51 | 0.97 | 8.5 |
| 4/21/2015 8:34:45 | 51.84 | 49.24 | 217 | 1.58 | 1.09 | 11.9 |
| 4/21/2015 8:34:48 | 52.17 | 49.57 | 162 | 1.59 | 1.16 | 8.8 |
| 4/21/2015 8:34:52 | 52.49 | 49.89 | 89 | 1.65 | 1.10 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:34:54 | 52.82 | 50.22 | 123 | 1.64 | 1.10 | 6.7 |
| 4/21/2015 | 8:34:57 | 53.15 | 50.55 | 130 | 1.63 | 1.12 | 7.1 |
| 4/21/2015 | 8:35:00 | 53.48 | 50.88 | 136 | 1.63 | 1.09 | 7.4 |
| 4/21/2015 | 8:35:02 | 53.81 | 51.21 | 142 | 1.63 | 1.07 | 7.8 |
| 4/21/2015 | 8:35:05 | 54.13 | 51.53 | 136 | 1.64 | 1.06 | 7.4 |
| 4/21/2015 | 8:35:07 | 54.46 | 51.86 | 142 | 1.65 | 1.09 | 7.8 |
| 4/21/2015 | 8:35:10 | 54.79 | 52.19 | 143 | 1.60 | 1.09 | 7.8 |
| 4/21/2015 | 8:35:12 | 55.12 | 52.52 | 146 | 1.64 | 1.09 | 8.0 |
| 4/21/2015 | 8:35:15 | 55.45 | 52.85 | 134 | 1.62 | 1.11 | 7.3 |
| 4/21/2015 | 8:35:18 | 55.77 | 53.17 | 130 | 1.65 | 1.14 | 7.1 |
| 4/21/2015 | 8:35:21 | 56.10 | 53.50 | 115 | 1.65 | 1.40 | 6.3 |
| 4/21/2015 | 8:35:36 | 56.43 | 53.83 | 41 | 1.64 | 1.10 | 2.2 |
| 4/21/2015 | 8:35:41 | 56.76 | 54.16 | 75 | 1.67 | 1.10 | 4.1 |
| 4/21/2015 | 8:35:46 | 57.09 | 54.49 | 75 | 1.66 | 1.11 | 4.1 |
| 4/21/2015 | 8:35:51 | 57.41 | 54.81 | 72 | 1.66 | 1.13 | 4.0 |
| 4/21/2015 | 8:35:57 | 57.71 | 55.11 | 38 | 1.60 | 1.15 | 2.1 |

## E56 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:30:36

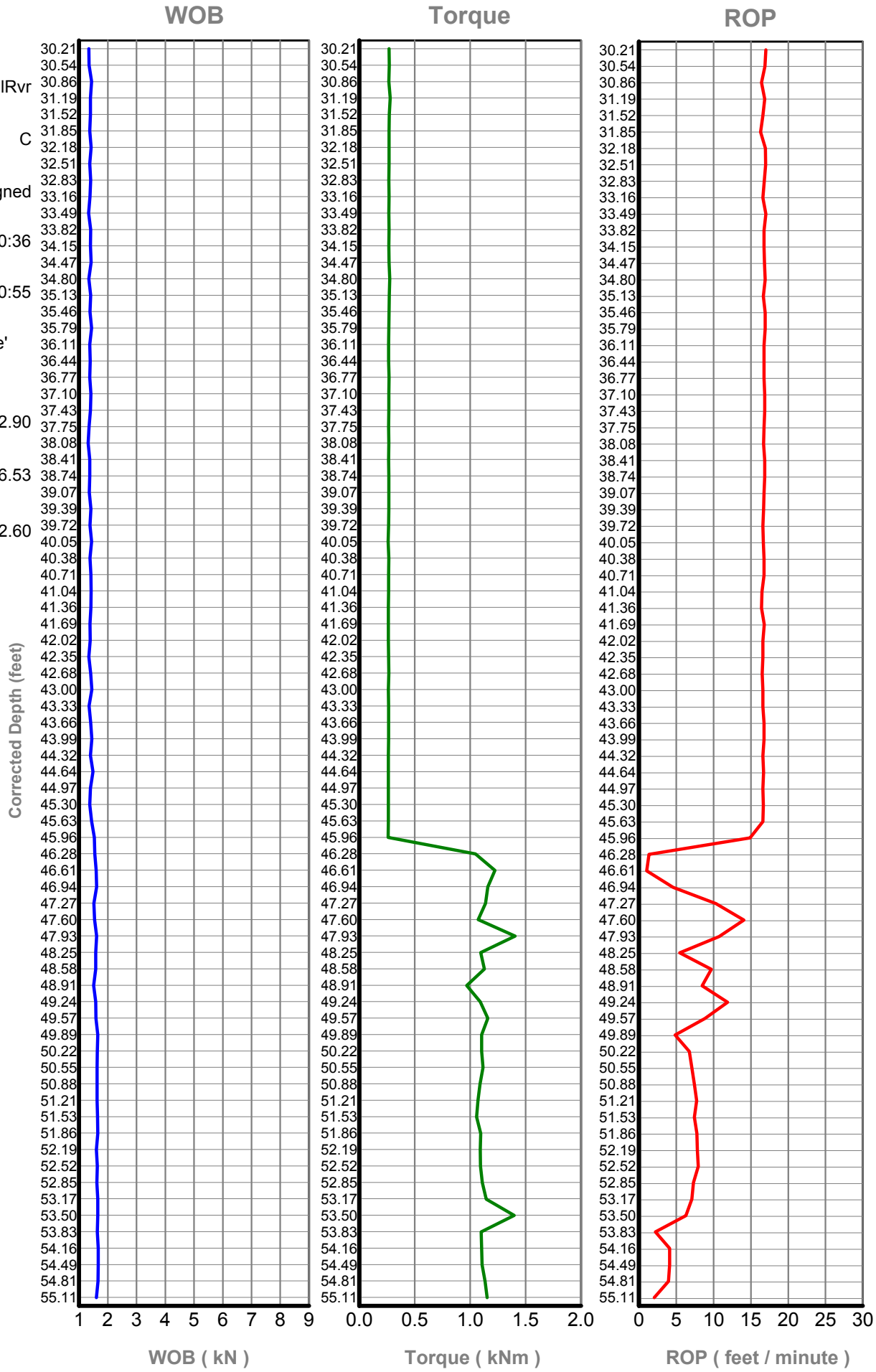
**End Date:**
4/21/2015 8:40:55

**Operator Note:**
'2.6 2.7 c Auto Complete'

**Northing:**
368,572.90

**Easting:**
253,026.53

**Tide (feet):**
2.60



## Hole: E57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 1:42:53 | 37.07 | 30.07 | 710 | 1.73 | 0.21 | 38.8 |
| 4/21/2015 1:42:53 | 37.40 | 30.40 | 718 | 1.73 | 0.21 | 39.3 |
| 4/21/2015 1:42:54 | 37.73 | 30.73 | 710 | 1.73 | 0.21 | 38.8 |
| 4/21/2015 1:42:54 | 38.06 | 31.06 | 701 | 1.73 | 0.21 | 38.4 |
| 4/21/2015 1:42:55 | 38.39 | 31.39 | 713 | 1.73 | 0.21 | 39.0 |
| 4/21/2015 1:42:55 | 38.71 | 31.71 | 716 | 1.73 | 0.21 | 39.2 |
| 4/21/2015 1:42:56 | 39.04 | 32.04 | 712 | 1.73 | 0.21 | 38.9 |
| 4/21/2015 1:42:56 | 39.37 | 32.37 | 719 | 1.73 | 0.21 | 39.3 |
| 4/21/2015 1:42:57 | 39.70 | 32.70 | 723 | 1.73 | 0.21 | 39.5 |
| 4/21/2015 1:42:57 | 40.03 | 33.03 | 718 | 1.73 | 0.21 | 39.3 |
| 4/21/2015 1:42:58 | 40.35 | 33.35 | 714 | 1.73 | 0.21 | 39.0 |
| 4/21/2015 1:42:58 | 40.68 | 33.68 | 714 | 1.73 | 0.21 | 39.0 |
| 4/21/2015 1:42:58 | 41.01 | 34.01 | 721 | 1.73 | 0.21 | 39.4 |
| 4/21/2015 1:43:03 | 41.34 | 34.34 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:43:04 | 41.67 | 34.67 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 1:43:04 | 41.99 | 34.99 | 194 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 1:43:04 | 42.32 | 35.32 | 415 | 1.73 | 0.21 | 22.7 |
| 4/21/2015 1:43:05 | 42.65 | 35.65 | 415 | 1.73 | 0.21 | 22.7 |
| 4/21/2015 1:43:05 | 42.98 | 35.98 | 629 | 1.73 | 0.21 | 34.4 |
| 4/21/2015 1:43:05 | 43.31 | 36.31 | 850 | 1.73 | 0.21 | 46.5 |
| 4/21/2015 1:43:06 | 43.64 | 36.64 | 850 | 1.73 | 0.21 | 46.5 |
| 4/21/2015 1:43:06 | 43.96 | 36.96 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:43:06 | 44.29 | 37.29 | 1,091 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:07 | 44.62 | 37.62 | 1,091 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:07 | 44.95 | 37.95 | 1,087 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 1:43:07 | 45.28 | 38.28 | 1,087 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 1:43:07 | 45.60 | 38.60 | 1,094 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:08 | 45.93 | 38.93 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:08 | 46.26 | 39.26 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:08 | 46.59 | 39.59 | 1,096 | 1.73 | 0.21 | 60.0 |
| 4/21/2015 1:43:09 | 46.92 | 39.92 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:09 | 47.24 | 40.24 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:09 | 47.57 | 40.57 | 1,094 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:10 | 47.90 | 40.90 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:10 | 48.23 | 41.23 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:10 | 48.56 | 41.56 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:11 | 48.88 | 41.88 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:11 | 49.21 | 42.21 | 1,087 | 1.73 | 0.21 | 59.4 |
| 4/21/2015 1:43:11 | 49.54 | 42.54 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 1:43:12 | 49.87 | 42.87 | 1,096 | 1.73 | 0.21 | 59.9 |
| 4/21/2015 1:43:12 | 50.20 | 43.20 | 1,099 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 1:43:13 | 50.53 | 43.53 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:13 | 50.85 | 43.85 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:13 | 51.18 | 44.18 | 1,100 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 1:43:14 | 51.51 | 44.51 | 1,100 | 1.73 | 0.21 | 60.1 |
| 4/21/2015 1:43:14 | 51.84 | 44.84 | 1,102 | 1.73 | 0.21 | 60.3 |
| 4/21/2015 1:43:14 | 52.17 | 45.17 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:15 | 52.49 | 45.49 | 1,093 | 1.73 | 0.21 | 59.8 |
| 4/21/2015 1:43:15 | 52.82 | 45.82 | 1,090 | 1.73 | 0.21 | 59.6 |
| 4/21/2015 1:43:41 | 53.15 | 46.15 | 43 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 1:43:46 | 53.48 | 46.48 | 57 | 1.73 | 0.21 | 3.1 |
| 4/21/2015 1:43:50 | 53.81 | 46.81 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 1:43:54 | 54.13 | 47.13 | 99 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 1:43:56 | 54.46 | 47.46 | 149 | 1.73 | 0.21 | 8.1 |
| 4/21/2015 1:43:59 | 54.79 | 47.79 | 171 | 1.73 | 0.21 | 9.4 |
| 4/21/2015 1:44:13 | 55.12 | 48.12 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 1:44:14 | 55.45 | 48.45 | 185 | 1.73 | 0.21 | 10.1 |
| 4/21/2015 1:44:14 | 55.77 | 48.77 | 307 | 1.73 | 0.21 | 16.8 |
| 4/21/2015 1:44:31 | 56.10 | 49.10 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:44:31 | 56.43 | 49.43 | 112 | 1.73 | 0.21 | 6.1 |
| 4/21/2015 1:44:33 | 56.76 | 49.76 | 299 | 1.73 | 0.21 | 16.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 1:44:38 | 57.09 | 50.09 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 1:44:45 | 57.41 | 50.41 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 1:44:47 | 57.74 | 50.74 | 189 | 1.73 | 0.21 | 10.3 |
| 4/21/2015 | 1:44:51 | 58.07 | 51.07 | 28 | 1.73 | 0.21 | 1.5 |
| 4/21/2015 | 1:44:53 | 58.40 | 51.40 | 136 | 1.73 | 0.21 | 7.4 |
| 4/21/2015 | 1:44:54 | 58.73 | 51.73 | 218 | 1.73 | 0.21 | 11.9 |
| 4/21/2015 | 1:44:56 | 59.06 | 52.06 | 230 | 1.73 | 0.21 | 12.6 |
| 4/21/2015 | 1:45:19 | 59.38 | 52.38 | 12 | 1.73 | 0.21 | 0.6 |
| 4/21/2015 | 1:45:22 | 59.71 | 52.71 | 122 | 1.73 | 0.21 | 6.7 |
| 4/21/2015 | 1:45:25 | 60.04 | 53.04 | 103 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 | 1:45:28 | 60.37 | 53.37 | 122 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 | 1:45:32 | 60.70 | 53.70 | 90 | 1.73 | 0.21 | 4.9 |
| 4/21/2015 | 1:45:37 | 61.02 | 54.02 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 1:45:42 | 61.35 | 54.35 | 61 | 1.73 | 0.21 | 3.3 |
| 4/21/2015 | 1:45:50 | 61.68 | 54.68 | 43 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 | 1:46:36 | 61.87 | 54.87 | 32 | 1.73 | 0.21 | 1.8 |

## E57 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 1:39:41

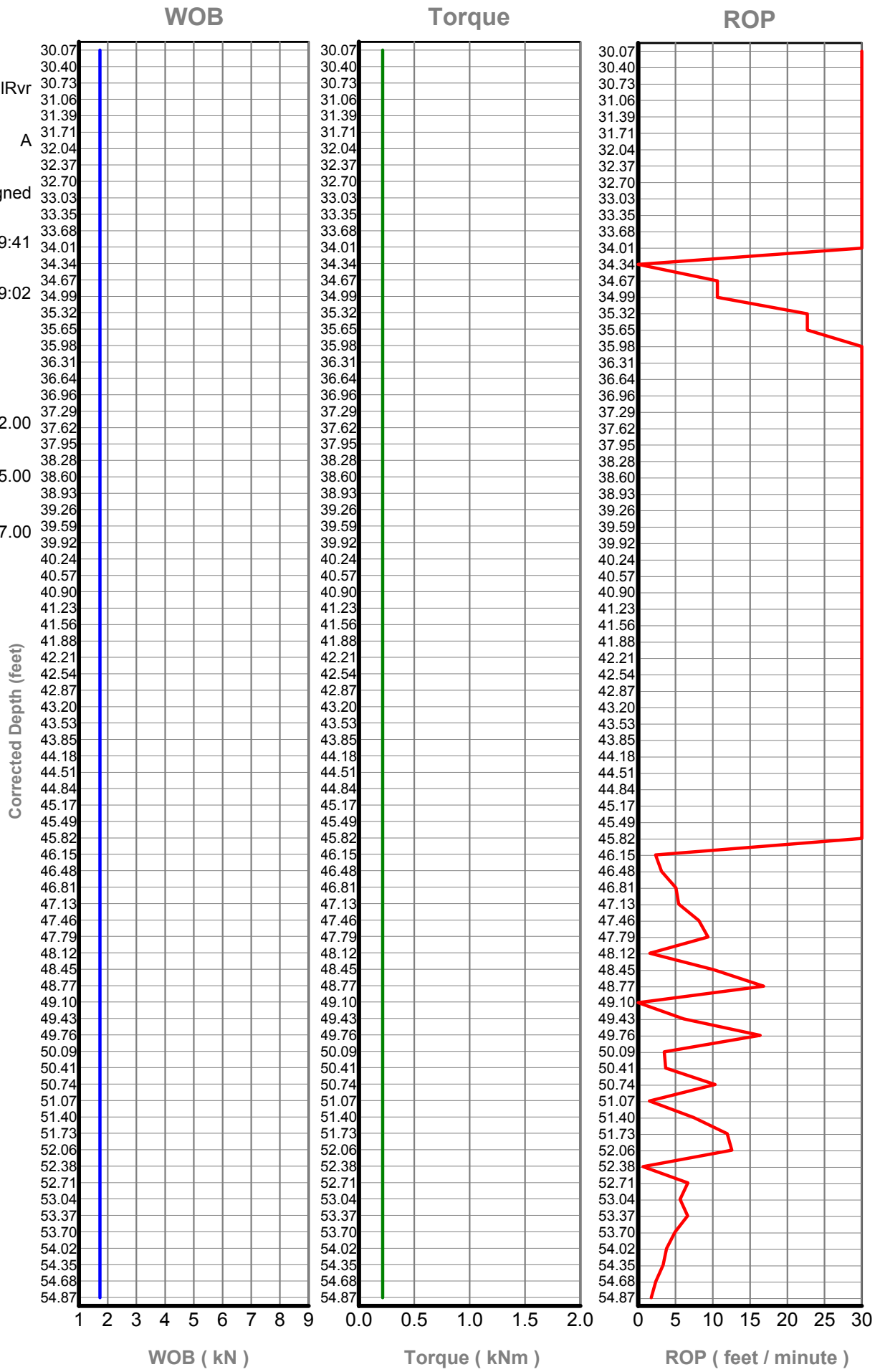
**End Date:**
4/21/2015 1:49:02

**Operator Note:**
'7 6.9 b Auto Complete'

**Northing:**
368,622.00

**Easting:**
253,085.00

**Tide (feet):**
7.00



## Hole: E58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 1:31:39 | 37.07 | 30.17 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:31:39 | 37.40 | 30.50 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:31:40 | 37.73 | 30.83 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 1:31:40 | 38.06 | 31.16 | 1,056 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 1:31:40 | 38.39 | 31.49 | 1,063 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 1:31:41 | 38.71 | 31.81 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 1:31:41 | 39.04 | 32.14 | 1,062 | 1.73 | 0.21 | 58.1 |
| 4/21/2015 1:31:41 | 39.37 | 32.47 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 1:31:42 | 39.70 | 32.80 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 1:31:42 | 40.03 | 33.13 | 1,067 | 1.73 | 0.21 | 58.3 |
| 4/21/2015 1:31:42 | 40.35 | 33.45 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 1:31:43 | 40.68 | 33.78 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 1:31:43 | 41.01 | 34.11 | 1,070 | 1.73 | 0.21 | 58.5 |
| 4/21/2015 1:31:43 | 41.34 | 34.44 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:31:44 | 41.67 | 34.77 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:31:44 | 41.99 | 35.09 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:31:45 | 42.32 | 35.42 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:45 | 42.65 | 35.75 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:45 | 42.98 | 36.08 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 1:31:48 | 43.31 | 36.41 | 17 | 1.73 | 0.21 | 0.9 |
| 4/21/2015 1:31:49 | 43.64 | 36.74 | 220 | 1.73 | 0.21 | 12.0 |
| 4/21/2015 1:31:49 | 43.96 | 37.06 | 220 | 1.73 | 0.21 | 12.0 |
| 4/21/2015 1:31:49 | 44.29 | 37.39 | 431 | 1.73 | 0.21 | 23.6 |
| 4/21/2015 1:31:50 | 44.62 | 37.72 | 637 | 1.73 | 0.21 | 34.8 |
| 4/21/2015 1:31:50 | 44.95 | 38.05 | 637 | 1.73 | 0.21 | 34.8 |
| 4/21/2015 1:31:50 | 45.28 | 38.38 | 851 | 1.73 | 0.21 | 46.6 |
| 4/21/2015 1:31:51 | 45.60 | 38.70 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:31:51 | 45.93 | 39.03 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:31:51 | 46.26 | 39.36 | 1,061 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 1:31:52 | 46.59 | 39.69 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:52 | 46.92 | 40.02 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:52 | 47.24 | 40.34 | 1,075 | 1.73 | 0.21 | 58.8 |
| 4/21/2015 1:31:53 | 47.57 | 40.67 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:31:53 | 47.90 | 41.00 | 1,068 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:31:53 | 48.23 | 41.33 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:54 | 48.56 | 41.66 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:54 | 48.88 | 41.98 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:54 | 49.21 | 42.31 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:55 | 49.54 | 42.64 | 1,065 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:55 | 49.87 | 42.97 | 1,064 | 1.73 | 0.21 | 58.2 |
| 4/21/2015 1:31:56 | 50.20 | 43.30 | 1,067 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:32:30 | 50.53 | 43.63 | 52 | 1.73 | 0.21 | 2.9 |
| 4/21/2015 1:32:35 | 50.85 | 43.95 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:32:39 | 51.18 | 44.28 | 117 | 1.73 | 0.21 | 6.4 |
| 4/21/2015 1:32:42 | 51.51 | 44.61 | 120 | 1.73 | 0.21 | 6.6 |
| 4/21/2015 1:32:45 | 51.84 | 44.94 | 102 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 1:32:47 | 52.17 | 45.27 | 150 | 1.73 | 0.21 | 8.2 |
| 4/21/2015 1:32:47 | 52.49 | 45.59 | 182 | 1.73 | 0.21 | 10.0 |
| 4/21/2015 1:32:48 | 52.82 | 45.92 | 300 | 1.73 | 0.21 | 16.4 |
| 4/21/2015 1:32:52 | 53.15 | 46.25 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:32:53 | 53.48 | 46.58 | 80 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 1:32:53 | 53.81 | 46.91 | 203 | 1.73 | 0.21 | 11.1 |
| 4/21/2015 1:32:54 | 54.13 | 47.23 | 450 | 1.73 | 0.21 | 24.6 |
| 4/21/2015 1:32:55 | 54.46 | 47.56 | 559 | 1.73 | 0.21 | 30.6 |
| 4/21/2015 1:32:56 | 54.79 | 47.89 | 609 | 1.73 | 0.21 | 33.3 |
| 4/21/2015 1:33:00 | 55.12 | 48.22 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:33:06 | 55.45 | 48.55 | 30 | 1.73 | 0.21 | 1.7 |
| 4/21/2015 1:33:11 | 55.77 | 48.87 | 38 | 1.73 | 0.21 | 2.1 |
| 4/21/2015 1:33:16 | 56.10 | 49.20 | 41 | 1.73 | 0.21 | 2.3 |
| 4/21/2015 1:33:20 | 56.43 | 49.53 | 67 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 1:33:21 | 56.76 | 49.86 | 162 | 1.73 | 0.21 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 1:33:21 | 57.09 | 50.19 | 225 | 1.73 | 0.21 | 12.3 |
| 4/21/2015 | 1:34:13 | 57.41 | 50.51 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 1:34:16 | 57.74 | 50.84 | 126 | 1.73 | 0.21 | 6.9 |
| 4/21/2015 | 1:34:20 | 58.07 | 51.17 | 95 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 1:34:24 | 58.40 | 51.50 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 1:34:30 | 58.73 | 51.83 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 1:34:35 | 59.06 | 52.16 | 61 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 | 1:34:43 | 59.38 | 52.48 | 47 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 | 1:34:53 | 59.71 | 52.81 | 35 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 | 1:34:59 | 60.04 | 53.14 | 62 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 | 1:35:02 | 60.37 | 53.47 | 113 | 1.73 | 0.21 | 6.2 |
| 4/21/2015 | 1:35:04 | 60.70 | 53.80 | 138 | 1.73 | 0.21 | 7.6 |
| 4/21/2015 | 1:35:07 | 61.02 | 54.12 | 129 | 1.73 | 0.21 | 7.1 |
| 4/21/2015 | 1:35:10 | 61.35 | 54.45 | 144 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 | 1:35:12 | 61.65 | 54.75 | 135 | 1.73 | 0.21 | 7.4 |

## E58 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 1:28:23

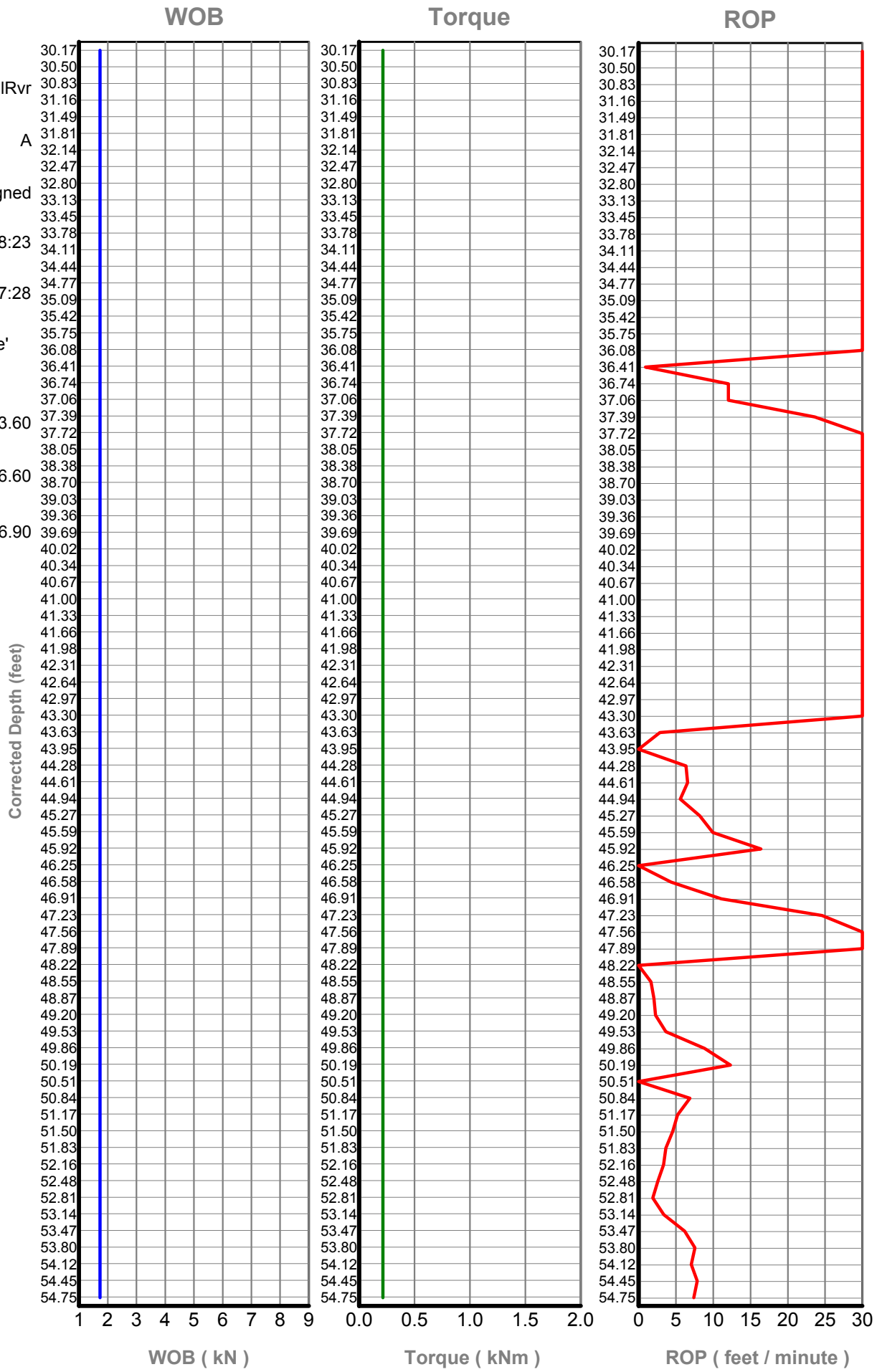
**End Date:**
4/21/2015 1:37:28

**Operator Note:**
'6.9 6.7 b Auto Complete'

**Northing:**
368,673.60

**Easting:**
253,146.60

**Tide (feet):**
6.90



## Hole: E59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 1:33:20 | 37.07 | 30.17 | 327 | 1.36 | 0.14 | 17.9 |
| 4/21/2015 1:33:21 | 37.40 | 30.50 | 322 | 1.36 | 0.14 | 17.6 |
| 4/21/2015 1:33:23 | 37.73 | 30.83 | 324 | 1.40 | 0.14 | 17.7 |
| 4/21/2015 1:33:24 | 38.06 | 31.16 | 327 | 1.40 | 0.14 | 17.9 |
| 4/21/2015 1:33:25 | 38.39 | 31.49 | 324 | 1.33 | 0.14 | 17.7 |
| 4/21/2015 1:33:26 | 38.71 | 31.81 | 329 | 1.32 | 0.14 | 18.0 |
| 4/21/2015 1:33:27 | 39.04 | 32.14 | 329 | 1.33 | 0.14 | 18.0 |
| 4/21/2015 1:33:28 | 39.37 | 32.47 | 324 | 1.39 | 0.14 | 17.7 |
| 4/21/2015 1:33:29 | 39.70 | 32.80 | 324 | 1.27 | 0.14 | 17.7 |
| 4/21/2015 1:33:30 | 40.03 | 33.13 | 327 | 1.34 | 0.14 | 17.9 |
| 4/21/2015 1:33:31 | 40.35 | 33.45 | 321 | 1.36 | 0.14 | 17.6 |
| 4/21/2015 1:33:33 | 40.68 | 33.78 | 325 | 1.36 | 0.14 | 17.8 |
| 4/21/2015 1:33:34 | 41.01 | 34.11 | 323 | 1.34 | 0.14 | 17.6 |
| 4/21/2015 1:33:35 | 41.34 | 34.44 | 324 | 1.39 | 0.14 | 17.7 |
| 4/21/2015 1:33:36 | 41.67 | 34.77 | 327 | 1.32 | 0.14 | 17.9 |
| 4/21/2015 1:33:37 | 41.99 | 35.09 | 320 | 1.33 | 0.14 | 17.5 |
| 4/21/2015 1:33:38 | 42.32 | 35.42 | 318 | 1.32 | 0.14 | 17.4 |
| 4/21/2015 1:33:39 | 42.65 | 35.75 | 319 | 1.35 | 0.14 | 17.5 |
| 4/21/2015 1:33:40 | 42.98 | 36.08 | 320 | 1.31 | 0.14 | 17.5 |
| 4/21/2015 1:33:41 | 43.31 | 36.41 | 329 | 1.32 | 0.14 | 18.0 |
| 4/21/2015 1:33:43 | 43.64 | 36.74 | 325 | 1.34 | 0.14 | 17.8 |
| 4/21/2015 1:33:44 | 43.96 | 37.06 | 322 | 1.33 | 0.14 | 17.6 |
| 4/21/2015 1:33:45 | 44.29 | 37.39 | 322 | 1.39 | 0.14 | 17.6 |
| 4/21/2015 1:33:46 | 44.62 | 37.72 | 324 | 1.31 | 0.14 | 17.7 |
| 4/21/2015 1:33:47 | 44.95 | 38.05 | 327 | 1.39 | 0.14 | 17.9 |
| 4/21/2015 1:33:49 | 45.28 | 38.38 | 315 | 1.36 | 0.14 | 17.3 |
| 4/21/2015 1:33:49 | 45.60 | 38.70 | 321 | 1.43 | 0.14 | 17.5 |
| 4/21/2015 1:33:50 | 45.93 | 39.03 | 324 | 1.32 | 0.14 | 17.7 |
| 4/21/2015 1:33:51 | 46.26 | 39.36 | 320 | 1.34 | 0.14 | 17.5 |
| 4/21/2015 1:33:53 | 46.59 | 39.69 | 320 | 1.31 | 0.14 | 17.5 |
| 4/21/2015 1:33:54 | 46.92 | 40.02 | 320 | 1.30 | 0.14 | 17.5 |
| 4/21/2015 1:33:55 | 47.24 | 40.34 | 324 | 1.37 | 0.14 | 17.7 |
| 4/21/2015 1:33:56 | 47.57 | 40.67 | 321 | 1.26 | 0.14 | 17.5 |
| 4/21/2015 1:33:57 | 47.90 | 41.00 | 318 | 1.34 | 0.14 | 17.4 |
| 4/21/2015 1:33:58 | 48.23 | 41.33 | 319 | 1.39 | 0.14 | 17.4 |
| 4/21/2015 1:33:59 | 48.56 | 41.66 | 321 | 1.38 | 0.14 | 17.5 |
| 4/21/2015 1:34:00 | 48.88 | 41.98 | 326 | 1.28 | 0.14 | 17.8 |
| 4/21/2015 1:34:02 | 49.21 | 42.31 | 318 | 1.35 | 0.14 | 17.4 |
| 4/21/2015 1:34:03 | 49.54 | 42.64 | 315 | 1.38 | 0.14 | 17.3 |
| 4/21/2015 1:34:04 | 49.87 | 42.97 | 319 | 1.33 | 0.14 | 17.4 |
| 4/21/2015 1:34:05 | 50.20 | 43.30 | 321 | 1.32 | 0.14 | 17.5 |
| 4/21/2015 1:34:06 | 50.53 | 43.63 | 324 | 1.31 | 0.14 | 17.7 |
| 4/21/2015 1:34:07 | 50.85 | 43.95 | 321 | 1.41 | 0.11 | 17.5 |
| 4/21/2015 1:34:08 | 51.18 | 44.28 | 318 | 1.40 | 0.14 | 17.4 |
| 4/21/2015 1:34:10 | 51.51 | 44.61 | 319 | 1.37 | 0.14 | 17.4 |
| 4/21/2015 1:34:11 | 51.84 | 44.94 | 321 | 1.36 | 0.14 | 17.5 |
| 4/21/2015 1:34:12 | 52.17 | 45.27 | 321 | 1.41 | 0.14 | 17.5 |
| 4/21/2015 1:35:13 | 52.49 | 45.59 | 0 | 1.59 | 0.98 | 0.0 |
| 4/21/2015 1:35:17 | 52.82 | 45.92 | 108 | 1.62 | 1.14 | 5.9 |
| 4/21/2015 1:35:19 | 53.15 | 46.25 | 122 | 1.66 | 1.15 | 6.7 |
| 4/21/2015 1:35:21 | 53.48 | 46.58 | 165 | 1.60 | 1.16 | 9.0 |
| 4/21/2015 1:35:48 | 53.81 | 46.91 | 0 | 1.58 | 1.16 | 0.0 |
| 4/21/2015 1:35:51 | 54.13 | 47.23 | 150 | 1.64 | 1.08 | 8.2 |
| 4/21/2015 1:36:02 | 54.46 | 47.56 | 59 | 1.59 | 1.24 | 3.2 |
| 4/21/2015 1:36:05 | 54.79 | 47.89 | 140 | 1.66 | 0.99 | 7.7 |
| 4/21/2015 1:36:17 | 55.12 | 48.22 | 37 | 1.61 | 0.98 | 2.0 |
| 4/21/2015 1:36:20 | 55.45 | 48.55 | 118 | 1.64 | 1.11 | 6.4 |
| 4/21/2015 1:36:45 | 55.77 | 48.87 | 0 | 1.63 | 1.03 | 0.0 |
| 4/21/2015 1:36:47 | 56.10 | 49.20 | 144 | 1.64 | 0.98 | 7.9 |
| 4/21/2015 1:37:09 | 56.43 | 49.53 | 0 | 1.55 | 0.88 | 0.0 |
| 4/21/2015 1:37:11 | 56.76 | 49.86 | 101 | 1.58 | 0.94 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 1:37:13 | 57.09 | 50.19 | 208 | 1.74 | 0.91 | 11.4 |
| 4/21/2015 | 1:37:15 | 57.41 | 50.51 | 161 | 1.59 | 0.97 | 8.8 |
| 4/21/2015 | 1:37:22 | 57.74 | 50.84 | 41 | 1.59 | 0.96 | 2.3 |
| 4/21/2015 | 1:37:32 | 58.07 | 51.17 | 45 | 1.59 | 0.98 | 2.5 |
| 4/21/2015 | 1:37:36 | 58.40 | 51.50 | 98 | 1.67 | 0.96 | 5.4 |
| 4/21/2015 | 1:37:47 | 58.73 | 51.83 | 6 | 1.59 | 0.94 | 0.3 |
| 4/21/2015 | 1:37:51 | 59.06 | 52.16 | 65 | 1.62 | 1.07 | 3.5 |
| 4/21/2015 | 1:39:03 | 59.38 | 52.48 | 104 | 1.62 | 1.04 | 5.7 |
| 4/21/2015 | 1:39:12 | 59.71 | 52.81 | 17 | 1.59 | 0.96 | 0.9 |
| 4/21/2015 | 1:39:16 | 60.04 | 53.14 | 74 | 1.63 | 1.03 | 4.0 |
| 4/21/2015 | 1:39:29 | 60.37 | 53.47 | 9 | 1.59 | 0.94 | 0.5 |
| 4/21/2015 | 1:39:35 | 60.70 | 53.80 | 83 | 1.69 | 1.02 | 4.6 |
| 4/21/2015 | 1:39:40 | 61.02 | 54.12 | 78 | 1.70 | 1.08 | 4.3 |
| 4/21/2015 | 1:39:44 | 61.35 | 54.45 | 98 | 1.64 | 1.03 | 5.4 |
| 4/21/2015 | 1:39:47 | 61.68 | 54.78 | 81 | 1.63 | 1.01 | 4.4 |

## E59 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 1:29:54

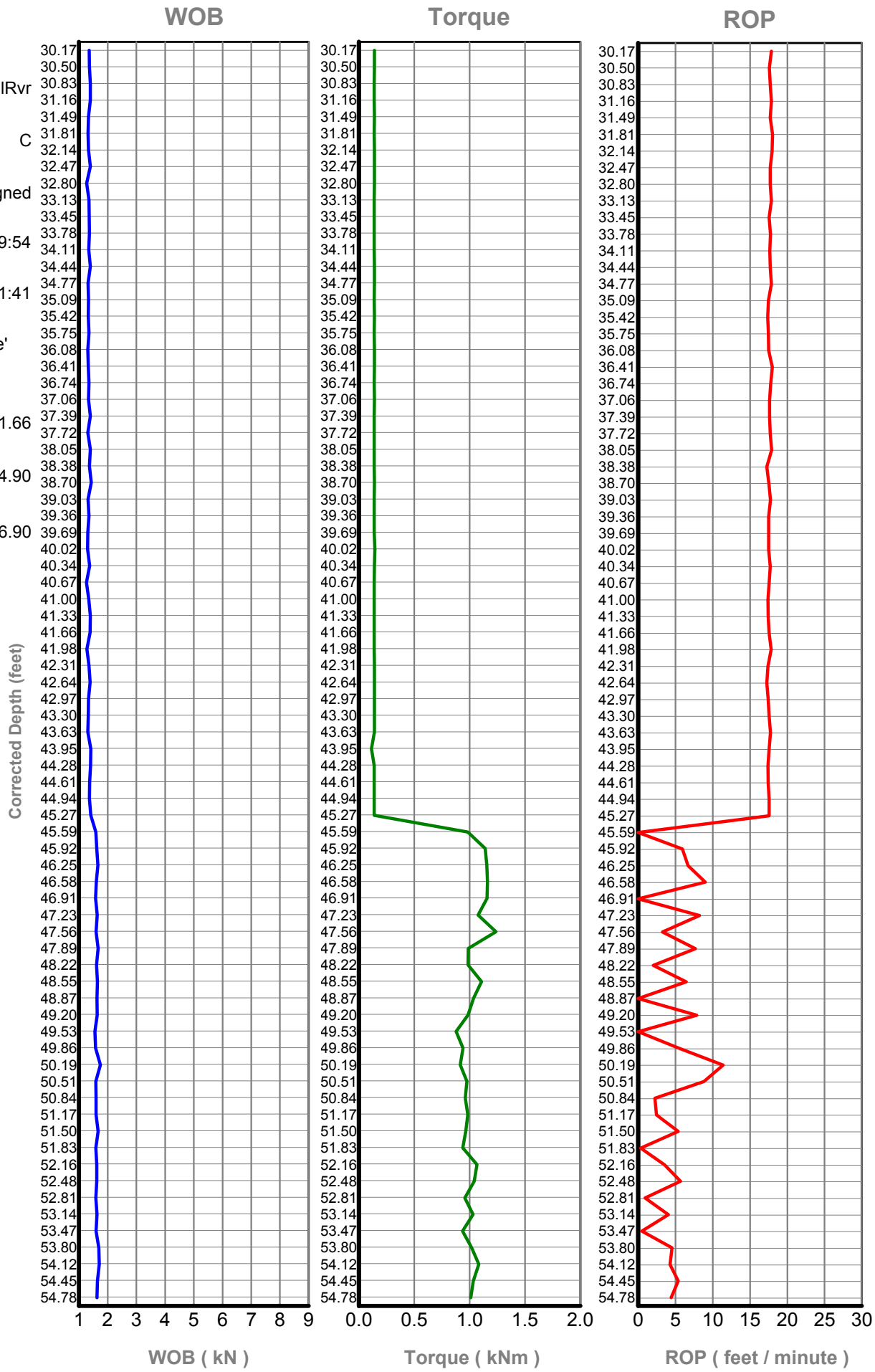
**End Date:**
4/21/2015 1:41:41

**Operator Note:**
'6.9 6.7 c Auto Complete'

**Northing:**
368,721.66

**Easting:**
253,204.90

**Tide (feet):**
6.90



## Hole: E6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 14:25:11 | 37.40 | 30.10 | 297 | 1.59 | 0.94 | 16.2 |
| 4/20/2015 14:25:12 | 37.73 | 30.43 | 295 | 1.59 | 0.92 | 16.1 |
| 4/20/2015 14:25:13 | 38.06 | 30.76 | 295 | 1.46 | 0.88 | 16.1 |
| 4/20/2015 14:25:14 | 38.39 | 31.09 | 304 | 1.53 | 0.94 | 16.6 |
| 4/20/2015 14:25:16 | 38.71 | 31.41 | 156 | 1.68 | 1.18 | 8.5 |
| 4/20/2015 14:25:18 | 39.04 | 31.74 | 158 | 1.72 | 1.03 | 8.6 |
| 4/20/2015 14:25:21 | 39.37 | 32.07 | 161 | 1.68 | 1.08 | 8.8 |
| 4/20/2015 14:25:22 | 39.70 | 32.40 | 182 | 1.69 | 1.05 | 10.0 |
| 4/20/2015 14:25:25 | 40.03 | 32.73 | 87 | 1.66 | 0.95 | 4.8 |
| 4/20/2015 14:25:26 | 40.35 | 33.05 | 170 | 1.72 | 1.18 | 9.3 |
| 4/20/2015 14:25:28 | 40.68 | 33.38 | 182 | 1.55 | 0.85 | 9.9 |
| 4/20/2015 14:25:30 | 41.01 | 33.71 | 205 | 1.59 | 1.24 | 11.2 |
| 4/20/2015 14:25:31 | 41.34 | 34.04 | 293 | 1.64 | 0.86 | 16.0 |
| 4/20/2015 14:25:32 | 41.67 | 34.37 | 301 | 1.47 | 0.78 | 16.4 |
| 4/20/2015 14:25:33 | 41.99 | 34.69 | 312 | 1.46 | 0.78 | 17.1 |
| 4/20/2015 14:25:35 | 42.32 | 35.02 | 239 | 1.79 | 1.07 | 13.1 |
| 4/20/2015 14:25:38 | 42.65 | 35.35 | 105 | 1.74 | 1.16 | 5.8 |
| 4/20/2015 14:25:40 | 42.98 | 35.68 | 182 | 1.77 | 1.04 | 10.0 |
| 4/20/2015 14:25:42 | 43.31 | 36.01 | 185 | 1.75 | 1.06 | 10.1 |
| 4/20/2015 14:25:43 | 43.64 | 36.34 | 218 | 1.72 | 1.05 | 11.9 |
| 4/20/2015 14:25:45 | 43.96 | 36.66 | 249 | 1.69 | 0.94 | 13.6 |
| 4/20/2015 14:25:46 | 44.29 | 36.99 | 257 | 1.74 | 1.03 | 14.1 |
| 4/20/2015 14:25:48 | 44.62 | 37.32 | 234 | 1.72 | 1.21 | 12.8 |
| 4/20/2015 14:25:49 | 44.95 | 37.65 | 240 | 1.71 | 0.91 | 13.1 |
| 4/20/2015 14:25:51 | 45.28 | 37.98 | 275 | 1.71 | 0.80 | 15.0 |
| 4/20/2015 14:25:52 | 45.60 | 38.30 | 289 | 1.70 | 0.84 | 15.8 |
| 4/20/2015 14:25:53 | 45.93 | 38.63 | 277 | 1.70 | 0.88 | 15.2 |
| 4/20/2015 14:25:54 | 46.26 | 38.96 | 279 | 1.50 | 0.79 | 15.2 |
| 4/20/2015 14:25:55 | 46.59 | 39.29 | 295 | 1.57 | 0.90 | 16.1 |
| 4/20/2015 14:25:57 | 46.92 | 39.62 | 289 | 1.73 | 0.92 | 15.8 |
| 4/20/2015 14:25:59 | 47.24 | 39.94 | 190 | 1.80 | 1.19 | 10.4 |
| 4/20/2015 14:26:03 | 47.57 | 40.27 | 78 | 1.81 | 1.28 | 4.3 |
| 4/20/2015 14:26:15 | 47.90 | 40.60 | 40 | 2.00 | 1.41 | 2.2 |
| 4/20/2015 14:26:41 | 48.23 | 40.93 | 41 | 2.02 | 1.43 | 2.2 |
| 4/20/2015 14:26:44 | 48.34 | 41.04 | 38 | 2.00 | 1.46 | 2.1 |

## E6 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 14:22:06

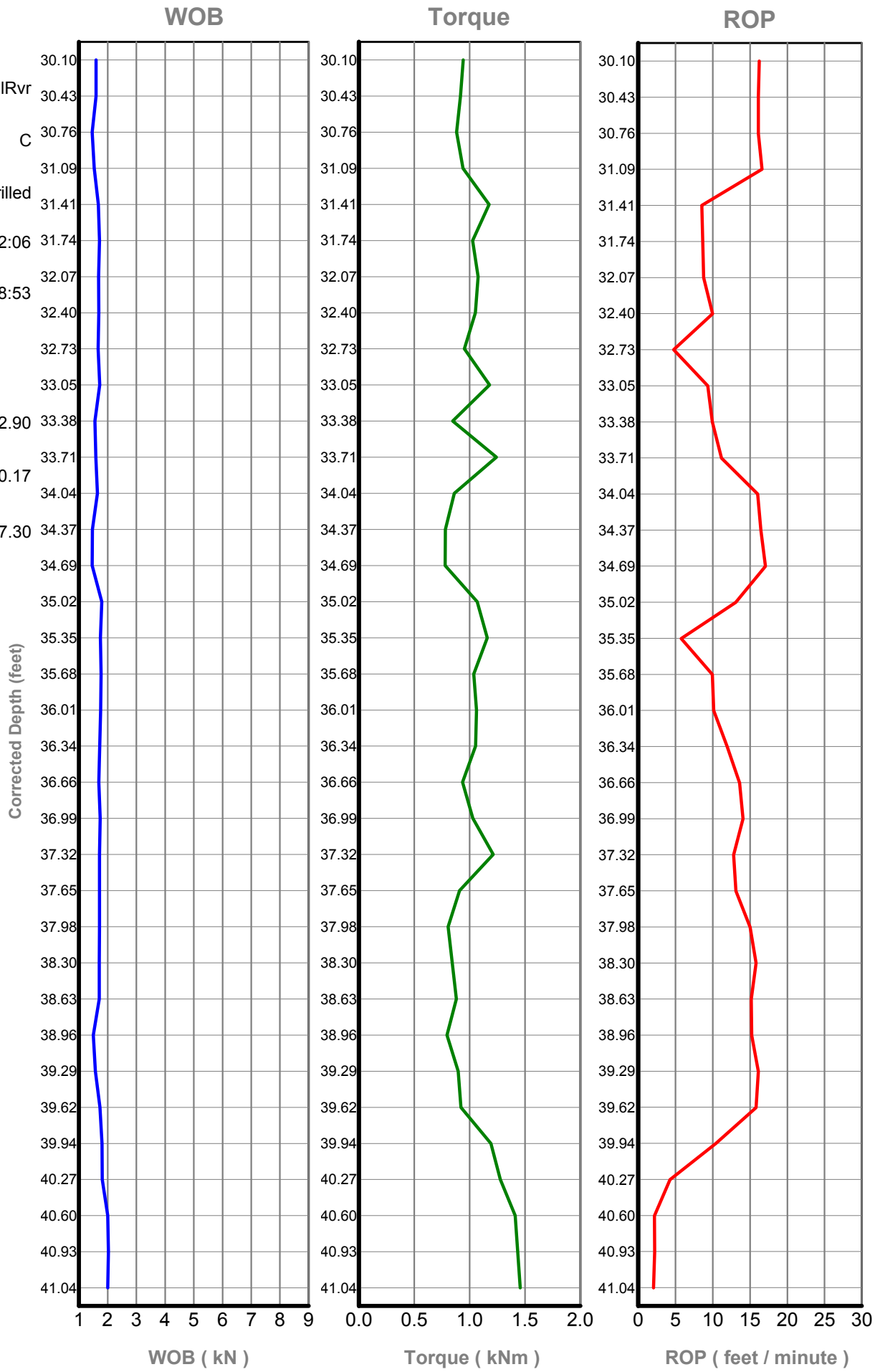
**End Date:**
4/20/2015 14:28:53

**Operator Note:**
'7.3 '6.8 7.3 c Auto Complete'

**Northing:**
368,982.90

**Easting:**
253,170.17

**Tide (feet):**
7.30



## Hole: E60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:14:07 | 36.09 | 30.09 | 1,055 | 0.37 | 0.34 | 57.7 |
| 4/20/2015 16:14:08 | 36.42 | 30.42 | 1,055 | 0.37 | 0.34 | 57.7 |
| 4/20/2015 16:14:08 | 36.75 | 30.75 | 1,044 | 0.38 | 0.33 | 57.1 |
| 4/20/2015 16:14:08 | 37.07 | 31.07 | 1,047 | 0.37 | 0.33 | 57.2 |
| 4/20/2015 16:14:09 | 37.40 | 31.40 | 1,047 | 0.37 | 0.33 | 57.2 |
| 4/20/2015 16:14:09 | 37.73 | 31.73 | 1,038 | 0.37 | 0.33 | 56.7 |
| 4/20/2015 16:14:09 | 38.06 | 32.06 | 1,054 | 0.37 | 0.33 | 57.6 |
| 4/20/2015 16:14:10 | 38.39 | 32.39 | 1,054 | 0.37 | 0.33 | 57.6 |
| 4/20/2015 16:14:10 | 38.71 | 32.71 | 1,054 | 0.37 | 0.34 | 57.6 |
| 4/20/2015 16:14:11 | 39.04 | 33.04 | 1,054 | 0.37 | 0.34 | 57.6 |
| 4/20/2015 16:14:11 | 39.37 | 33.37 | 1,051 | 0.37 | 0.33 | 57.5 |
| 4/20/2015 16:14:11 | 39.70 | 33.70 | 1,056 | 0.37 | 0.34 | 57.8 |
| 4/20/2015 16:14:12 | 40.03 | 34.03 | 1,056 | 0.37 | 0.34 | 57.8 |
| 4/20/2015 16:14:12 | 40.35 | 34.35 | 1,056 | 0.36 | 0.34 | 57.8 |
| 4/20/2015 16:14:12 | 40.68 | 34.68 | 1,062 | 0.37 | 0.33 | 58.1 |
| 4/20/2015 16:14:13 | 41.01 | 35.01 | 1,062 | 0.37 | 0.33 | 58.1 |
| 4/20/2015 16:14:13 | 41.34 | 35.34 | 1,069 | 0.32 | 0.32 | 58.5 |
| 4/20/2015 16:14:13 | 41.67 | 35.67 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/20/2015 16:14:14 | 41.99 | 35.99 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/20/2015 16:14:14 | 42.32 | 36.32 | 1,058 | 0.27 | 0.32 | 57.9 |
| 4/20/2015 16:14:14 | 42.65 | 36.65 | 1,054 | 0.25 | 0.31 | 57.7 |
| 4/20/2015 16:14:15 | 42.98 | 36.98 | 1,054 | 0.25 | 0.31 | 57.7 |
| 4/20/2015 16:14:15 | 43.31 | 37.31 | 1,064 | 0.26 | 0.31 | 58.2 |
| 4/20/2015 16:14:15 | 43.64 | 37.64 | 1,060 | 0.38 | 0.32 | 58.0 |
| 4/20/2015 16:14:16 | 43.96 | 37.96 | 1,060 | 0.38 | 0.32 | 58.0 |
| 4/20/2015 16:14:16 | 44.29 | 38.29 | 1,070 | 0.25 | 0.31 | 58.5 |
| 4/20/2015 16:14:16 | 44.62 | 38.62 | 1,070 | 0.25 | 0.31 | 58.5 |
| 4/20/2015 16:14:16 | 44.95 | 38.95 | 1,070 | 0.27 | 0.31 | 58.5 |
| 4/20/2015 16:14:17 | 45.28 | 39.28 | 1,076 | 0.27 | 0.32 | 58.8 |
| 4/20/2015 16:14:17 | 45.60 | 39.60 | 1,076 | 0.27 | 0.32 | 58.8 |
| 4/20/2015 16:14:17 | 45.93 | 39.93 | 1,070 | 0.26 | 0.32 | 58.5 |
| 4/20/2015 16:14:18 | 46.26 | 40.26 | 1,070 | 0.26 | 0.32 | 58.5 |
| 4/20/2015 16:14:18 | 46.59 | 40.59 | 1,070 | 0.26 | 0.32 | 58.5 |
| 4/20/2015 16:14:18 | 46.92 | 40.92 | 1,073 | 0.27 | 0.32 | 58.6 |
| 4/20/2015 16:14:19 | 47.24 | 41.24 | 1,073 | 0.26 | 0.31 | 58.6 |
| 4/20/2015 16:14:19 | 47.57 | 41.57 | 1,073 | 0.26 | 0.31 | 58.6 |
| 4/20/2015 16:14:19 | 47.90 | 41.90 | 1,069 | 0.26 | 0.32 | 58.4 |
| 4/20/2015 16:14:20 | 48.23 | 42.23 | 1,069 | 0.26 | 0.32 | 58.4 |
| 4/20/2015 16:14:20 | 48.56 | 42.56 | 1,081 | 0.26 | 0.31 | 59.1 |
| 4/20/2015 16:14:21 | 48.88 | 42.88 | 1,084 | 0.26 | 0.31 | 59.3 |
| 4/20/2015 16:14:21 | 49.21 | 43.21 | 1,084 | 0.26 | 0.31 | 59.3 |
| 4/20/2015 16:14:21 | 49.54 | 43.54 | 1,081 | 0.26 | 0.31 | 59.1 |
| 4/20/2015 16:14:22 | 49.87 | 43.87 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/20/2015 16:14:22 | 50.20 | 44.20 | 1,084 | 0.26 | 0.32 | 59.3 |
| 4/20/2015 16:14:22 | 50.53 | 44.53 | 1,084 | 0.27 | 0.31 | 59.3 |
| 4/20/2015 16:14:23 | 50.85 | 44.85 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/20/2015 16:14:23 | 51.18 | 45.18 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/20/2015 16:14:23 | 51.51 | 45.51 | 1,078 | 0.27 | 0.34 | 59.0 |
| 4/20/2015 16:14:29 | 51.84 | 45.84 | 3 | 3.31 | 0.36 | 0.2 |
| 4/20/2015 16:14:32 | 52.17 | 46.17 | 163 | 3.20 | 0.42 | 8.9 |
| 4/20/2015 16:14:34 | 52.49 | 46.49 | 127 | 3.69 | 0.40 | 6.9 |
| 4/20/2015 16:14:37 | 52.82 | 46.82 | 121 | 3.28 | 0.38 | 6.6 |
| 4/20/2015 16:14:40 | 53.15 | 47.15 | 108 | 4.26 | 0.41 | 5.9 |
| 4/20/2015 16:14:45 | 53.48 | 47.48 | 92 | 3.94 | 0.40 | 5.0 |
| 4/20/2015 16:14:48 | 53.81 | 47.81 | 116 | 3.79 | 0.40 | 6.4 |
| 4/20/2015 16:14:52 | 54.13 | 48.13 | 69 | 3.67 | 0.40 | 3.8 |
| 4/20/2015 16:14:57 | 54.46 | 48.46 | 77 | 3.88 | 0.41 | 4.2 |
| 4/20/2015 16:15:01 | 54.79 | 48.79 | 90 | 3.86 | 0.40 | 4.9 |
| 4/20/2015 16:15:05 | 55.12 | 49.12 | 95 | 4.34 | 0.41 | 5.2 |
| 4/20/2015 16:15:08 | 55.45 | 49.45 | 90 | 4.21 | 0.41 | 4.9 |
| 4/20/2015 16:15:13 | 55.77 | 49.77 | 87 | 4.37 | 0.41 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:15:17 | 56.10 | 50.10 | 84 | 4.25 | 0.40 | 4.6 |
| 4/20/2015 | 16:15:21 | 56.43 | 50.43 | 93 | 3.68 | 0.38 | 5.1 |
| 4/20/2015 | 16:15:25 | 56.76 | 50.76 | 106 | 3.56 | 0.38 | 5.8 |
| 4/20/2015 | 16:15:27 | 57.09 | 51.09 | 116 | 3.68 | 0.38 | 6.3 |
| 4/20/2015 | 16:15:30 | 57.41 | 51.41 | 133 | 3.12 | 0.40 | 7.3 |
| 4/20/2015 | 16:15:35 | 57.74 | 51.74 | 84 | 3.97 | 0.38 | 4.6 |
| 4/20/2015 | 16:15:39 | 58.07 | 52.07 | 81 | 3.67 | 0.40 | 4.4 |
| 4/20/2015 | 16:15:43 | 58.40 | 52.40 | 78 | 4.25 | 0.41 | 4.3 |
| 4/20/2015 | 16:15:48 | 58.73 | 52.73 | 81 | 3.98 | 0.39 | 4.4 |
| 4/20/2015 | 16:15:52 | 59.06 | 53.06 | 86 | 3.87 | 0.39 | 4.7 |
| 4/20/2015 | 16:15:56 | 59.38 | 53.38 | 84 | 3.39 | 0.39 | 4.6 |
| 4/20/2015 | 16:16:01 | 59.71 | 53.71 | 67 | 3.62 | 0.40 | 3.7 |
| 4/20/2015 | 16:16:07 | 60.04 | 54.04 | 66 | 3.39 | 0.40 | 3.6 |
| 4/20/2015 | 16:16:12 | 60.37 | 54.37 | 78 | 3.84 | 0.41 | 4.3 |
| 4/20/2015 | 16:16:16 | 60.70 | 54.70 | 81 | 3.98 | 0.39 | 4.4 |
| 4/20/2015 | 16:16:20 | 61.02 | 55.02 | 84 | 3.90 | 0.38 | 4.6 |
| 4/20/2015 | 16:16:24 | 61.35 | 55.35 | 90 | 3.50 | 0.39 | 4.9 |
| 4/20/2015 | 16:16:29 | 61.68 | 55.68 | 81 | 3.45 | 0.40 | 4.4 |
| 4/20/2015 | 16:16:32 | 62.01 | 56.01 | 113 | 3.26 | 0.40 | 6.2 |

## E60 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:12:28

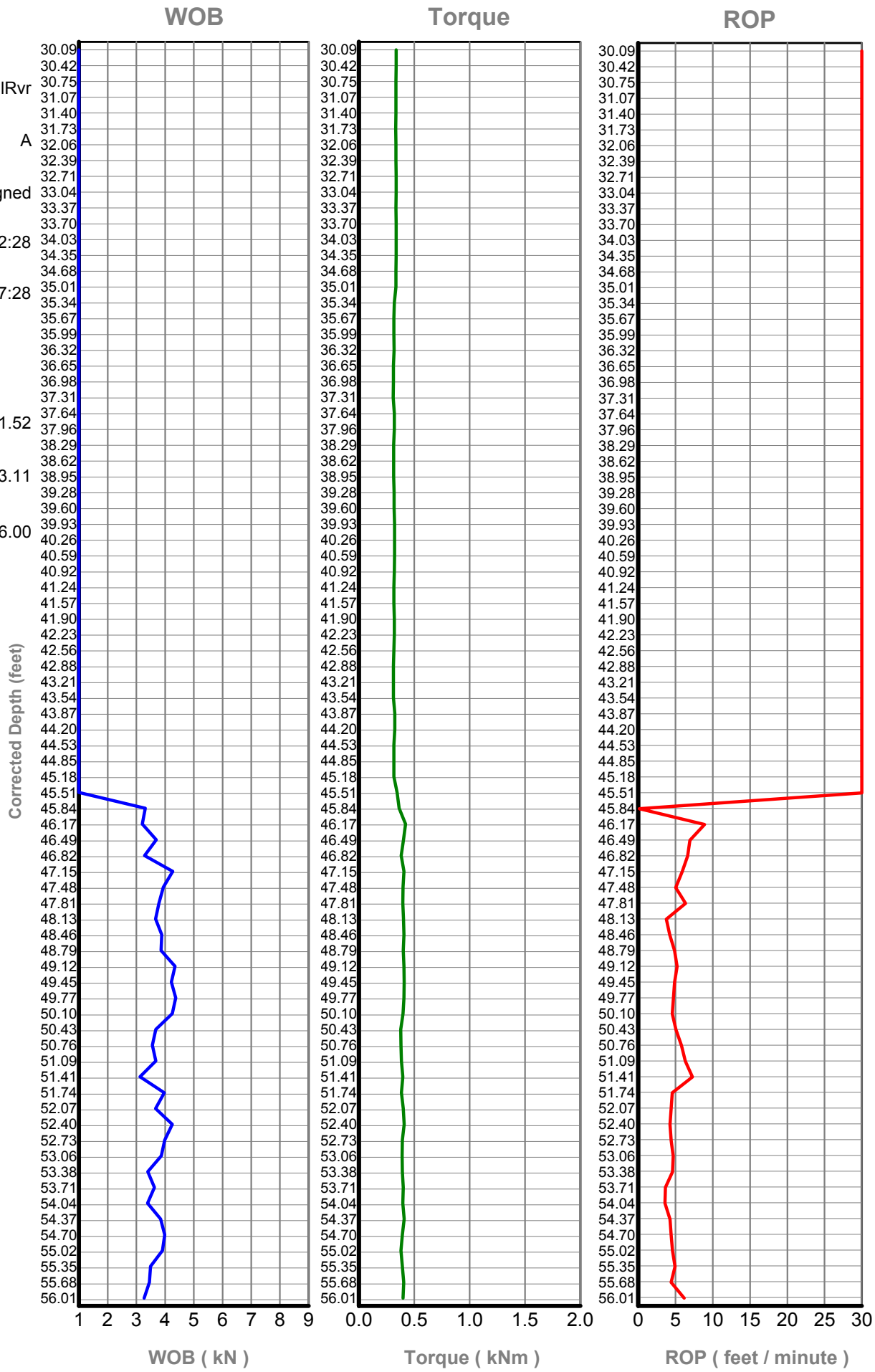
**End Date:**
4/20/2015 16:17:28

**Operator Note:**
'6 6.1 b Auto Complete'

**Northing:**
368,771.52

**Easting:**
253,253.11

**Tide (feet):**
6.00



## Hole: E61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:20:01 | 36.09 | 30.19 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/20/2015 16:20:02 | 36.42 | 30.52 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 16:20:02 | 36.75 | 30.85 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/20/2015 16:20:02 | 37.07 | 31.17 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/20/2015 16:20:03 | 37.40 | 31.50 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/20/2015 16:20:03 | 37.73 | 31.83 | 1,108 | 0.39 | 0.30 | 60.6 |
| 4/20/2015 16:20:03 | 38.06 | 32.16 | 1,108 | 0.26 | 0.31 | 60.6 |
| 4/20/2015 16:20:04 | 38.39 | 32.49 | 1,108 | 0.26 | 0.31 | 60.6 |
| 4/20/2015 16:20:04 | 38.71 | 32.81 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 16:20:05 | 39.04 | 33.14 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/20/2015 16:20:05 | 39.37 | 33.47 | 1,113 | 0.27 | 0.31 | 60.9 |
| 4/20/2015 16:20:05 | 39.70 | 33.80 | 1,120 | 0.28 | 0.31 | 61.2 |
| 4/20/2015 16:20:06 | 40.03 | 34.13 | 1,120 | 0.28 | 0.31 | 61.2 |
| 4/20/2015 16:20:06 | 40.35 | 34.45 | 1,111 | 0.28 | 0.32 | 60.7 |
| 4/20/2015 16:20:06 | 40.68 | 34.78 | 1,123 | 0.28 | 0.31 | 61.4 |
| 4/20/2015 16:20:07 | 41.01 | 35.11 | 1,123 | 0.28 | 0.31 | 61.4 |
| 4/20/2015 16:20:07 | 41.34 | 35.44 | 1,123 | 0.27 | 0.32 | 61.4 |
| 4/20/2015 16:20:07 | 41.67 | 35.77 | 1,123 | 0.27 | 0.32 | 61.4 |
| 4/20/2015 16:20:07 | 41.99 | 36.09 | 1,113 | 0.27 | 0.31 | 60.9 |
| 4/20/2015 16:20:08 | 42.32 | 36.42 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/20/2015 16:20:08 | 42.65 | 36.75 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/20/2015 16:20:08 | 42.98 | 37.08 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/20/2015 16:20:09 | 43.31 | 37.41 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/20/2015 16:20:09 | 43.64 | 37.74 | 1,106 | 0.27 | 0.31 | 60.5 |
| 4/20/2015 16:20:09 | 43.96 | 38.06 | 1,106 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 16:20:10 | 44.29 | 38.39 | 1,106 | 0.26 | 0.31 | 60.5 |
| 4/20/2015 16:20:10 | 44.62 | 38.72 | 1,107 | 0.27 | 0.31 | 60.5 |
| 4/20/2015 16:20:10 | 44.95 | 39.05 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:11 | 45.28 | 39.38 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:11 | 45.60 | 39.70 | 1,098 | 0.27 | 0.31 | 60.0 |
| 4/20/2015 16:20:11 | 45.93 | 40.03 | 1,098 | 0.27 | 0.31 | 60.0 |
| 4/20/2015 16:20:11 | 46.26 | 40.36 | 1,092 | 0.29 | 0.31 | 59.7 |
| 4/20/2015 16:20:12 | 46.59 | 40.69 | 1,103 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 16:20:12 | 46.92 | 41.02 | 1,103 | 0.28 | 0.31 | 60.3 |
| 4/20/2015 16:20:12 | 47.24 | 41.34 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 16:20:13 | 47.57 | 41.67 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:13 | 47.90 | 42.00 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:13 | 48.23 | 42.33 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:14 | 48.56 | 42.66 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:20:14 | 48.88 | 42.98 | 1,098 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:20:15 | 49.21 | 43.31 | 1,092 | 0.29 | 0.32 | 59.7 |
| 4/20/2015 16:20:15 | 49.54 | 43.64 | 1,092 | 0.29 | 0.32 | 59.7 |
| 4/20/2015 16:20:15 | 49.87 | 43.97 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/20/2015 16:20:16 | 50.20 | 44.30 | 1,099 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:20:16 | 50.53 | 44.63 | 1,099 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:20:16 | 50.85 | 44.95 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/20/2015 16:20:17 | 51.18 | 45.28 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/20/2015 16:20:17 | 51.51 | 45.61 | 1,083 | 0.27 | 0.31 | 59.2 |
| 4/20/2015 16:20:17 | 51.84 | 45.94 | 1,083 | 0.27 | 0.31 | 59.2 |
| 4/20/2015 16:20:18 | 52.17 | 46.27 | 1,083 | 0.27 | 0.31 | 59.2 |
| 4/20/2015 16:20:18 | 52.49 | 46.59 | 1,097 | 0.27 | 0.31 | 60.0 |
| 4/20/2015 16:20:18 | 52.82 | 46.92 | 1,090 | 0.29 | 0.34 | 59.6 |
| 4/20/2015 16:20:19 | 53.15 | 47.25 | 1,090 | 0.29 | 0.34 | 59.6 |
| 4/20/2015 16:20:28 | 53.48 | 47.58 | 55 | 3.60 | 0.41 | 3.0 |
| 4/20/2015 16:20:32 | 53.81 | 47.91 | 87 | 3.99 | 0.40 | 4.8 |
| 4/20/2015 16:20:36 | 54.13 | 48.23 | 93 | 4.62 | 0.40 | 5.1 |
| 4/20/2015 16:20:40 | 54.46 | 48.56 | 84 | 4.21 | 0.38 | 4.6 |
| 4/20/2015 16:20:43 | 54.79 | 48.89 | 113 | 4.35 | 0.40 | 6.2 |
| 4/20/2015 16:20:49 | 55.12 | 49.22 | 64 | 4.19 | 0.40 | 3.5 |
| 4/20/2015 16:20:56 | 55.45 | 49.55 | 52 | 3.10 | 0.40 | 2.8 |
| 4/20/2015 16:21:03 | 55.77 | 49.87 | 49 | 3.43 | 0.39 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:21:10 | 56.10 | 50.20 | 57 | 3.25 | 0.39 | 3.1 |
| 4/20/2015 | 16:21:13 | 56.24 | 50.34 | 49 | 4.39 | 0.42 | 2.7 |

## E61 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:18:41

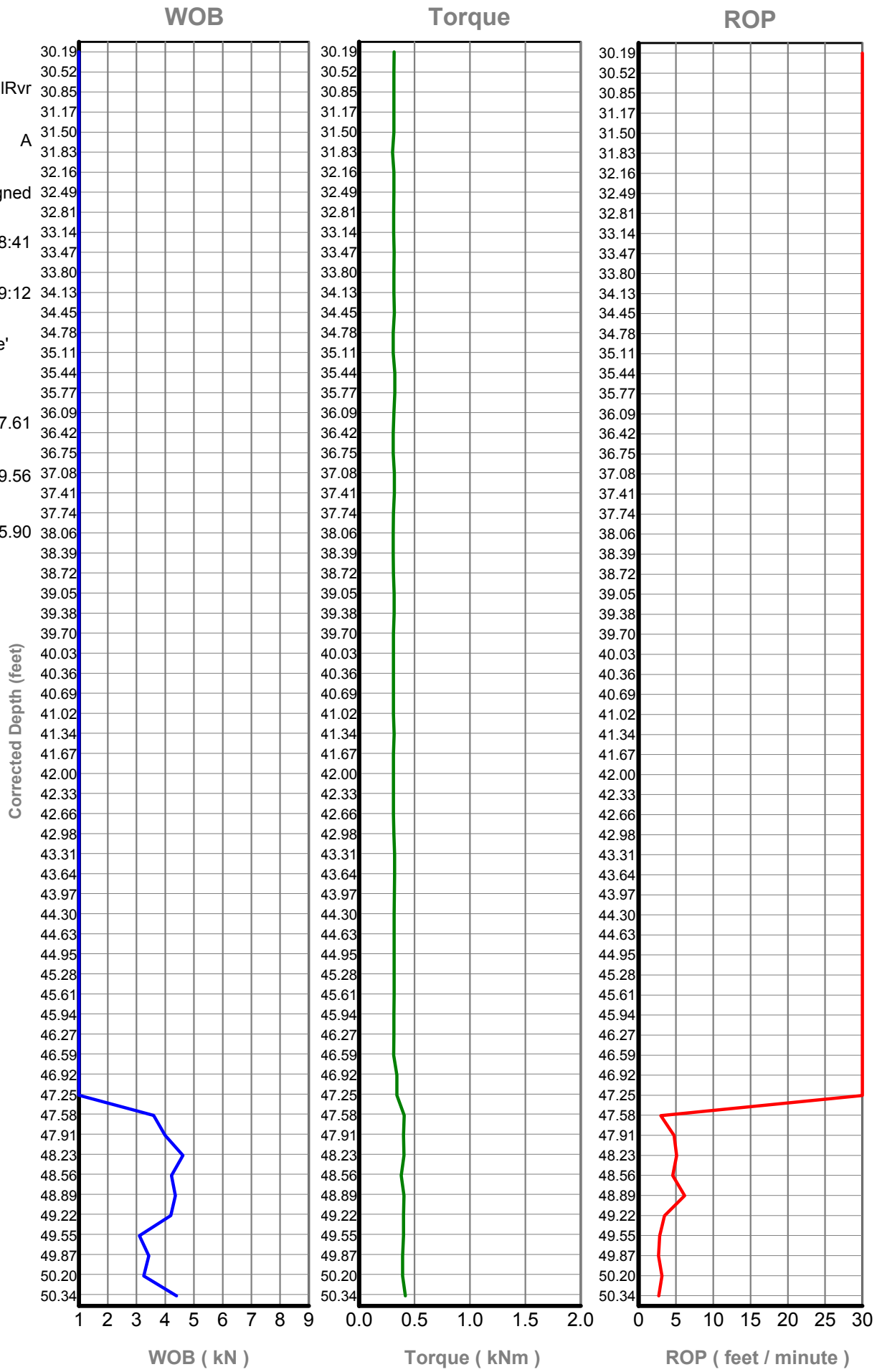
**End Date:**
4/20/2015 16:29:12

**Operator Note:**
'5.9 6.0 b Auto Complete'

**Northing:**
368,807.61

**Easting:**
253,299.56

**Tide (feet):**
5.90



## Hole: E62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:16:43 | 36.09 | 30.09 | 480 | 1.65 | 0.25 | 26.3 |
| 4/20/2015 16:16:44 | 36.42 | 30.42 | 480 | 1.63 | 0.25 | 26.3 |
| 4/20/2015 16:16:45 | 36.75 | 30.75 | 489 | 1.65 | 0.25 | 26.7 |
| 4/20/2015 16:16:46 | 37.07 | 31.07 | 483 | 1.64 | 0.25 | 26.4 |
| 4/20/2015 16:16:46 | 37.40 | 31.40 | 486 | 1.63 | 0.25 | 26.6 |
| 4/20/2015 16:16:47 | 37.73 | 31.73 | 486 | 1.66 | 0.25 | 26.6 |
| 4/20/2015 16:16:48 | 38.06 | 32.06 | 489 | 1.65 | 0.25 | 26.8 |
| 4/20/2015 16:16:48 | 38.39 | 32.39 | 492 | 1.64 | 0.25 | 26.9 |
| 4/20/2015 16:16:49 | 38.71 | 32.71 | 492 | 1.63 | 0.25 | 26.9 |
| 4/20/2015 16:16:50 | 39.04 | 33.04 | 489 | 1.63 | 0.25 | 26.7 |
| 4/20/2015 16:16:51 | 39.37 | 33.37 | 488 | 1.65 | 0.25 | 26.7 |
| 4/20/2015 16:16:51 | 39.70 | 33.70 | 488 | 1.62 | 0.25 | 26.7 |
| 4/20/2015 16:16:52 | 40.03 | 34.03 | 486 | 1.64 | 0.25 | 26.6 |
| 4/20/2015 16:16:53 | 40.35 | 34.35 | 483 | 1.64 | 0.25 | 26.4 |
| 4/20/2015 16:16:54 | 40.68 | 34.68 | 486 | 1.66 | 0.25 | 26.6 |
| 4/20/2015 16:16:55 | 41.01 | 35.01 | 486 | 1.65 | 0.25 | 26.6 |
| 4/20/2015 16:16:55 | 41.34 | 35.34 | 489 | 1.63 | 0.25 | 26.7 |
| 4/20/2015 16:16:56 | 41.67 | 35.67 | 486 | 1.66 | 0.25 | 26.6 |
| 4/20/2015 16:16:57 | 41.99 | 35.99 | 480 | 1.64 | 0.26 | 26.2 |
| 4/20/2015 16:16:57 | 42.32 | 36.32 | 486 | 1.64 | 0.25 | 26.6 |
| 4/20/2015 16:16:58 | 42.65 | 36.65 | 486 | 1.64 | 0.25 | 26.6 |
| 4/20/2015 16:16:59 | 42.98 | 36.98 | 477 | 1.63 | 0.25 | 26.1 |
| 4/20/2015 16:16:59 | 43.31 | 37.31 | 486 | 1.64 | 0.25 | 26.6 |
| 4/20/2015 16:17:00 | 43.64 | 37.64 | 483 | 1.64 | 0.25 | 26.4 |
| 4/20/2015 16:17:01 | 43.96 | 37.96 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:02 | 44.29 | 38.29 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:03 | 44.62 | 38.62 | 486 | 1.63 | 0.25 | 26.6 |
| 4/20/2015 16:17:04 | 44.95 | 38.95 | 486 | 1.67 | 0.25 | 26.6 |
| 4/20/2015 16:17:04 | 45.28 | 39.28 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:05 | 45.60 | 39.60 | 483 | 1.62 | 0.25 | 26.4 |
| 4/20/2015 16:17:06 | 45.93 | 39.93 | 483 | 1.65 | 0.25 | 26.4 |
| 4/20/2015 16:17:06 | 46.26 | 40.26 | 480 | 1.64 | 0.25 | 26.2 |
| 4/20/2015 16:17:07 | 46.59 | 40.59 | 477 | 1.66 | 0.25 | 26.1 |
| 4/20/2015 16:17:08 | 46.92 | 40.92 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:09 | 47.24 | 41.24 | 483 | 1.64 | 0.25 | 26.4 |
| 4/20/2015 16:17:09 | 47.57 | 41.57 | 483 | 1.65 | 0.25 | 26.4 |
| 4/20/2015 16:17:10 | 47.90 | 41.90 | 489 | 1.65 | 0.25 | 26.7 |
| 4/20/2015 16:17:11 | 48.23 | 42.23 | 477 | 1.62 | 0.25 | 26.1 |
| 4/20/2015 16:17:11 | 48.56 | 42.56 | 474 | 1.66 | 0.25 | 25.9 |
| 4/20/2015 16:17:12 | 48.88 | 42.88 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:13 | 49.21 | 43.21 | 486 | 1.64 | 0.25 | 26.6 |
| 4/20/2015 16:17:14 | 49.54 | 43.54 | 483 | 1.64 | 0.25 | 26.4 |
| 4/20/2015 16:17:15 | 49.87 | 43.87 | 483 | 1.65 | 0.25 | 26.4 |
| 4/20/2015 16:17:15 | 50.20 | 44.20 | 480 | 1.64 | 0.25 | 26.3 |
| 4/20/2015 16:17:16 | 50.53 | 44.53 | 483 | 1.66 | 0.25 | 26.4 |
| 4/20/2015 16:17:17 | 50.85 | 44.85 | 480 | 1.66 | 0.25 | 26.2 |
| 4/20/2015 16:17:18 | 51.18 | 45.18 | 468 | 1.79 | 0.25 | 25.6 |
| 4/20/2015 16:18:14 | 51.51 | 45.51 | 114 | 1.70 | 0.86 | 6.3 |
| 4/20/2015 16:18:15 | 51.84 | 45.84 | 233 | 1.70 | 0.78 | 12.7 |
| 4/20/2015 16:18:16 | 52.17 | 46.17 | 298 | 1.73 | 1.00 | 16.3 |
| 4/20/2015 16:18:18 | 52.49 | 46.49 | 270 | 1.76 | 1.09 | 14.8 |
| 4/20/2015 16:18:29 | 52.82 | 46.82 | 81 | 1.85 | 1.07 | 4.4 |
| 4/20/2015 16:18:34 | 53.15 | 47.15 | 72 | 1.85 | 1.09 | 4.0 |
| 4/20/2015 16:18:38 | 53.48 | 47.48 | 101 | 1.83 | 1.02 | 5.5 |
| 4/20/2015 16:18:40 | 53.81 | 47.81 | 142 | 1.83 | 1.09 | 7.7 |
| 4/20/2015 16:18:46 | 54.13 | 48.13 | 49 | 1.87 | 1.09 | 2.7 |
| 4/20/2015 16:18:53 | 54.46 | 48.46 | 48 | 1.87 | 1.00 | 2.6 |
| 4/20/2015 16:19:00 | 54.79 | 48.79 | 55 | 1.87 | 1.04 | 3.0 |
| 4/20/2015 16:19:09 | 55.12 | 49.12 | 49 | 1.87 | 1.02 | 2.7 |
| 4/20/2015 16:19:14 | 55.45 | 49.45 | 73 | 1.85 | 0.95 | 4.0 |
| 4/20/2015 16:19:18 | 55.77 | 49.77 | 95 | 1.84 | 1.10 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:19:21 | 56.10 | 50.10 | 119 | 1.83 | 1.06 | 6.5 |
| 4/20/2015 | 16:19:26 | 56.43 | 50.43 | 58 | 1.85 | 1.04 | 3.2 |
| 4/20/2015 | 16:19:31 | 56.76 | 50.76 | 71 | 1.83 | 1.05 | 3.9 |
| 4/20/2015 | 16:19:38 | 57.09 | 51.09 | 33 | 1.87 | 0.94 | 1.8 |
| 4/20/2015 | 16:19:48 | 57.41 | 51.41 | 38 | 1.85 | 0.99 | 2.1 |
| 4/20/2015 | 16:19:57 | 57.72 | 51.72 | 30 | 1.83 | 1.09 | 1.6 |

## E62 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:14:51

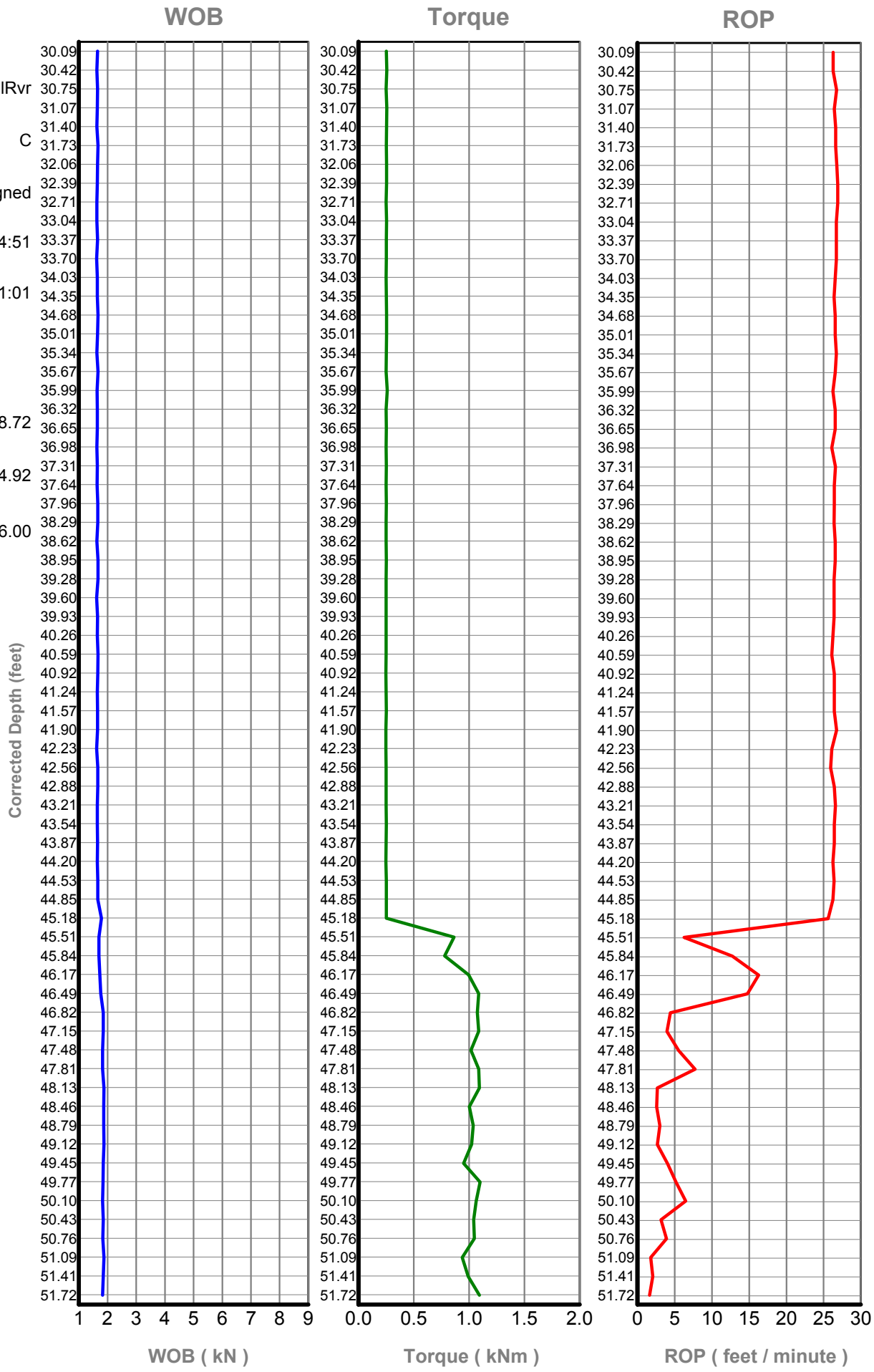
**End Date:**
4/20/2015 16:21:01

**Operator Note:**
'6 6.1 c Auto Complete'

**Northing:**
368,858.72

**Easting:**
253,364.92

**Tide (feet):**
6.00



## Hole: E63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:19:09 | 34.45 | 30.05 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:19:09 | 34.78 | 30.38 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:19:10 | 35.11 | 30.71 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:19:10 | 35.43 | 31.03 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:19:10 | 35.76 | 31.36 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:19:11 | 36.09 | 31.69 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:19:11 | 36.42 | 32.02 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:19:11 | 36.75 | 32.35 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:12 | 37.07 | 32.67 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:19:12 | 37.40 | 33.00 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:19:12 | 37.73 | 33.33 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:13 | 38.06 | 33.66 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:13 | 38.39 | 33.99 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:14 | 38.71 | 34.31 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:14 | 39.04 | 34.64 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:14 | 39.37 | 34.97 | 1,049 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:19:15 | 39.70 | 35.30 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:15 | 40.03 | 35.63 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:15 | 40.35 | 35.95 | 1,052 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:16 | 40.68 | 36.28 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:19:16 | 41.01 | 36.61 | 1,050 | 0.43 | 0.46 | 57.4 |
| 4/20/2015 11:19:16 | 41.34 | 36.94 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:19:17 | 41.67 | 37.27 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:17 | 41.99 | 37.59 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 11:19:17 | 42.32 | 37.92 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:19:18 | 42.65 | 38.25 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:19:18 | 42.98 | 38.58 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:19:18 | 43.31 | 38.91 | 1,057 | 0.43 | 0.46 | 57.8 |
| 4/20/2015 11:19:19 | 43.64 | 39.24 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:19 | 43.96 | 39.56 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:19 | 44.29 | 39.89 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:20 | 44.62 | 40.22 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:20 | 44.95 | 40.55 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:20 | 45.28 | 40.88 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 11:19:21 | 45.60 | 41.20 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:21 | 45.93 | 41.53 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:21 | 46.26 | 41.86 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:19:22 | 46.59 | 42.19 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:22 | 46.92 | 42.52 | 1,043 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:22 | 47.24 | 42.84 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:19:23 | 47.57 | 43.17 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:23 | 47.90 | 43.50 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:23 | 48.23 | 43.83 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:24 | 48.56 | 44.16 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:25 | 48.88 | 44.48 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:25 | 49.21 | 44.81 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 11:19:25 | 49.54 | 45.14 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:26 | 49.87 | 45.47 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 11:19:26 | 50.20 | 45.80 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:26 | 50.53 | 46.13 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:26 | 50.85 | 46.45 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 11:19:27 | 51.18 | 46.78 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 11:19:43 | 51.51 | 47.11 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 11:19:46 | 51.84 | 47.44 | 122 | 0.43 | 0.46 | 6.7 |
| 4/20/2015 11:19:58 | 52.17 | 47.77 | 32 | 0.43 | 0.46 | 1.7 |
| 4/20/2015 11:20:04 | 52.49 | 48.09 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 11:20:10 | 52.82 | 48.42 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 11:20:14 | 53.15 | 48.75 | 98 | 0.43 | 0.46 | 5.4 |
| 4/20/2015 11:20:19 | 53.48 | 49.08 | 72 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 11:20:27 | 53.81 | 49.41 | 44 | 0.43 | 0.46 | 2.4 |
| 4/20/2015 11:20:33 | 54.13 | 49.73 | 49 | 0.43 | 0.46 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 11:20:42 | 54.46 | 50.06 | 47 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 | 11:20:49 | 54.79 | 50.39 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 11:20:51 | 54.88 | 50.48 | 52 | 0.43 | 0.46 | 2.9 |

## E63 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 11:14:42

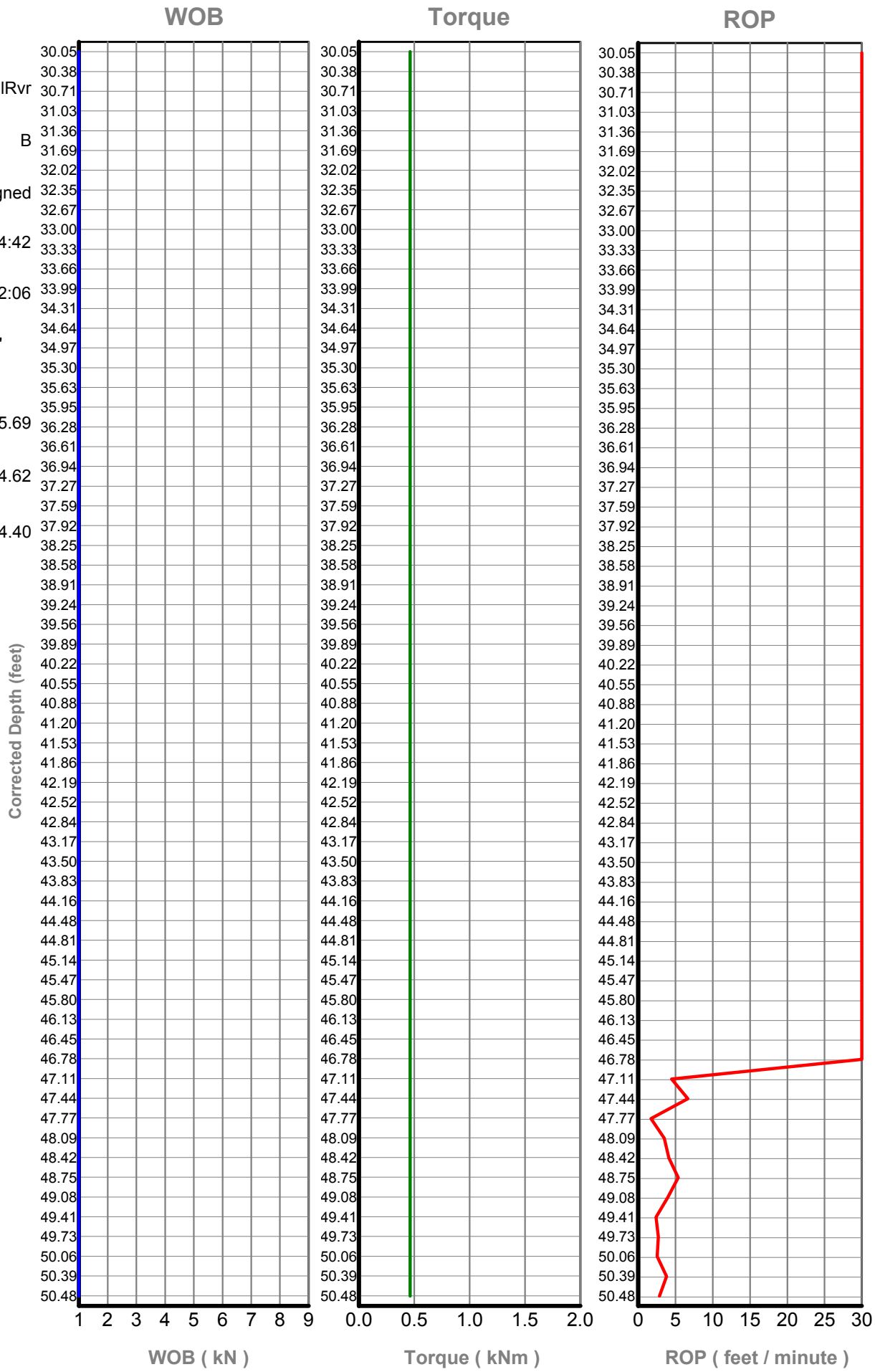
**End Date:**
4/20/2015 11:22:06

**Operator Note:**
'4.4 4.4 b Rock @ 53.5"

**Northing:**
368,905.69

**Easting:**
253,434.62

**Tide (feet):**
4.40



## Hole: E64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:09:45 | 34.45 | 30.25 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:09:46 | 34.78 | 30.58 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:46 | 35.11 | 30.91 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:46 | 35.43 | 31.23 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:09:47 | 35.76 | 31.56 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:09:47 | 36.09 | 31.89 | 1,067 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 11:09:47 | 36.42 | 32.22 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:48 | 36.75 | 32.55 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:48 | 37.07 | 32.87 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:09:48 | 37.40 | 33.20 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:49 | 37.73 | 33.53 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:49 | 38.06 | 33.86 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:50 | 38.39 | 34.19 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:50 | 38.71 | 34.51 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:50 | 39.04 | 34.84 | 1,067 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 11:09:51 | 39.37 | 35.17 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:51 | 39.70 | 35.50 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:09:51 | 40.03 | 35.83 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 11:09:52 | 40.35 | 36.15 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 11:09:52 | 40.68 | 36.48 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 11:09:52 | 41.01 | 36.81 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 11:09:53 | 41.34 | 37.14 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 11:09:53 | 41.67 | 37.47 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 11:09:53 | 41.99 | 37.79 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:54 | 42.32 | 38.12 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 11:09:54 | 42.65 | 38.45 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:09:54 | 42.98 | 38.78 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 11:09:55 | 43.31 | 39.11 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 11:09:55 | 43.64 | 39.44 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:09:55 | 43.96 | 39.76 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 11:09:56 | 44.29 | 40.09 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 11:09:56 | 44.62 | 40.42 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:09:56 | 44.95 | 40.75 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 11:09:57 | 45.28 | 41.08 | 1,062 | 0.43 | 0.46 | 58.1 |
| 4/20/2015 11:09:57 | 45.60 | 41.40 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:09:57 | 45.93 | 41.73 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:09:58 | 46.26 | 42.06 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:09:58 | 46.59 | 42.39 | 1,052 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 11:09:58 | 46.92 | 42.72 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:09:59 | 47.24 | 43.04 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:09:59 | 47.57 | 43.37 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:09:59 | 47.90 | 43.70 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:09:59 | 48.23 | 44.03 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:10:00 | 48.56 | 44.36 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:10:01 | 48.88 | 44.68 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:10:01 | 49.21 | 45.01 | 1,058 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 11:10:01 | 49.54 | 45.34 | 1,056 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 11:10:02 | 49.87 | 45.67 | 1,021 | 0.43 | 0.46 | 55.8 |
| 4/20/2015 11:10:11 | 50.20 | 46.00 | 9 | 0.43 | 0.46 | 0.5 |
| 4/20/2015 11:10:17 | 50.53 | 46.33 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 11:10:19 | 50.85 | 46.65 | 174 | 0.43 | 0.46 | 9.5 |
| 4/20/2015 11:10:21 | 51.18 | 46.98 | 191 | 0.43 | 0.46 | 10.4 |
| 4/20/2015 11:10:23 | 51.51 | 47.31 | 208 | 0.43 | 0.46 | 11.4 |
| 4/20/2015 11:10:25 | 51.84 | 47.64 | 200 | 0.43 | 0.46 | 11.0 |
| 4/20/2015 11:10:26 | 52.17 | 47.97 | 244 | 0.43 | 0.46 | 13.3 |
| 4/20/2015 11:10:27 | 52.49 | 48.29 | 304 | 0.43 | 0.46 | 16.6 |
| 4/20/2015 11:10:28 | 52.82 | 48.62 | 353 | 0.43 | 0.46 | 19.3 |
| 4/20/2015 11:10:29 | 53.15 | 48.95 | 382 | 0.43 | 0.46 | 20.9 |
| 4/20/2015 11:10:31 | 53.48 | 49.28 | 205 | 0.43 | 0.46 | 11.2 |
| 4/20/2015 11:10:32 | 53.81 | 49.61 | 208 | 0.43 | 0.46 | 11.4 |
| 4/20/2015 11:10:35 | 54.13 | 49.93 | 133 | 0.43 | 0.46 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 11:10:40 | 54.46 | 50.26 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 | 11:10:45 | 54.79 | 50.59 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 11:10:50 | 55.12 | 50.92 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 11:10:56 | 55.45 | 51.25 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 | 11:11:02 | 55.77 | 51.57 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 | 11:11:07 | 56.10 | 51.90 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 | 11:11:13 | 56.43 | 52.23 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 11:11:18 | 56.76 | 52.56 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 | 11:11:23 | 57.09 | 52.89 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 11:11:29 | 57.41 | 53.21 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 | 11:11:36 | 57.74 | 53.54 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 | 11:11:38 | 57.91 | 53.71 | 61 | 0.43 | 0.46 | 3.3 |

## E64 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 11:08:17

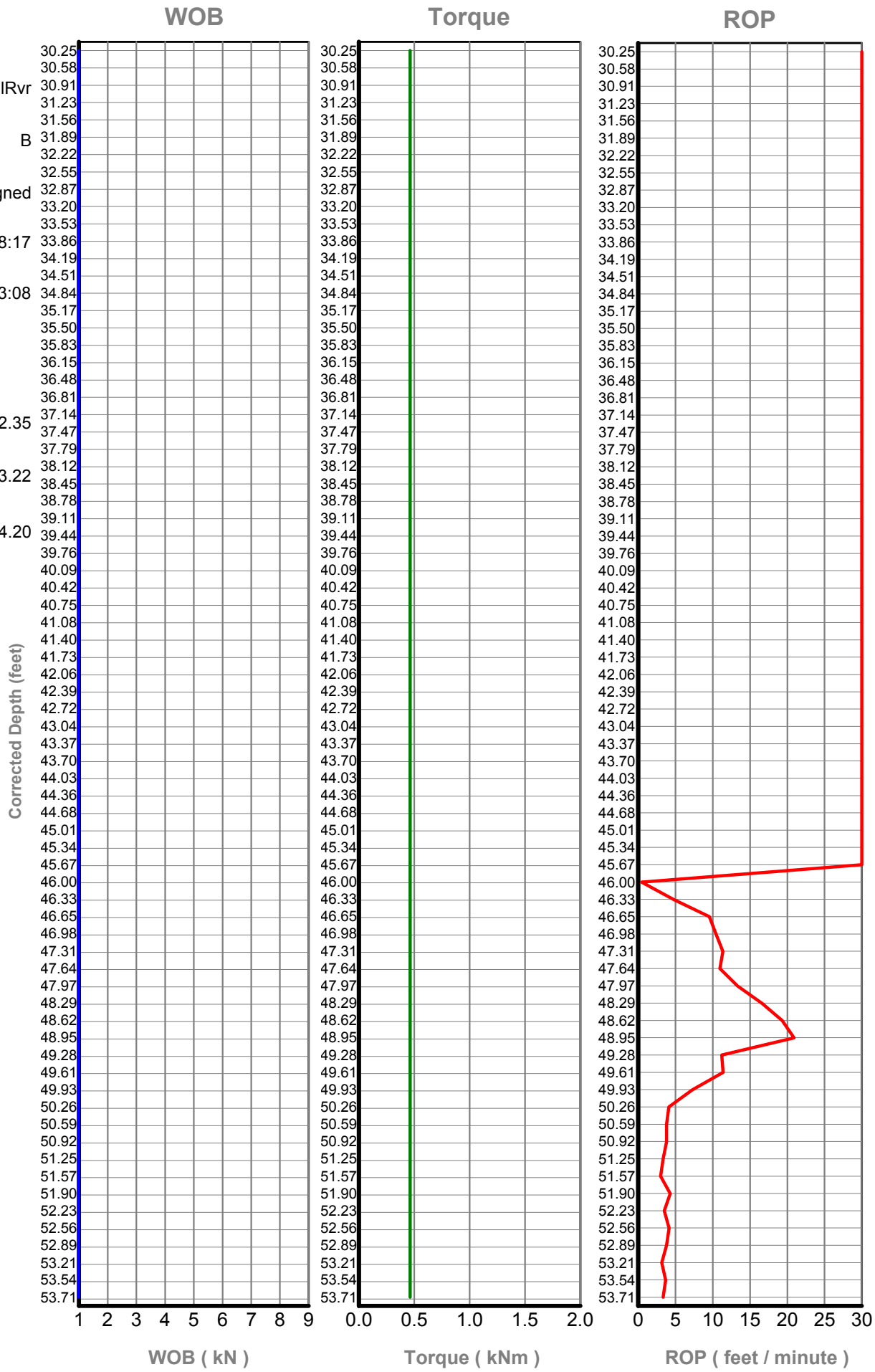
**End Date:**
4/20/2015 11:13:08

**Operator Note:**
'4.2 4.3 b RoCk @ 56"

**Northing:**
368,952.35

**Easting:**
253,493.22

**Tide (feet):**
4.20



## Hole: E65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 11:00:20 | 34.12 | 30.02 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:20 | 34.45 | 30.35 | 1,100 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 11:00:21 | 34.78 | 30.68 | 1,100 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 11:00:21 | 35.11 | 31.01 | 1,104 | 0.43 | 0.46 | 60.4 |
| 4/20/2015 11:00:21 | 35.43 | 31.33 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:22 | 35.76 | 31.66 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:22 | 36.09 | 31.99 | 1,091 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 11:00:22 | 36.42 | 32.32 | 1,091 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 11:00:22 | 36.75 | 32.65 | 1,098 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 11:00:23 | 37.07 | 32.97 | 1,091 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 11:00:23 | 37.40 | 33.30 | 1,091 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 11:00:23 | 37.73 | 33.63 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 11:00:24 | 38.06 | 33.96 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 11:00:24 | 38.39 | 34.29 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 11:00:24 | 38.71 | 34.61 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 11:00:25 | 39.04 | 34.94 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:25 | 39.37 | 35.27 | 1,094 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:25 | 39.70 | 35.60 | 1,103 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 11:00:26 | 40.03 | 35.93 | 1,103 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 11:00:26 | 40.35 | 36.25 | 1,097 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 11:00:27 | 40.68 | 36.58 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:27 | 41.01 | 36.91 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 11:00:27 | 41.34 | 37.24 | 1,090 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 11:00:28 | 41.67 | 37.57 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 11:00:28 | 41.99 | 37.89 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 11:00:28 | 42.32 | 38.22 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:29 | 42.65 | 38.55 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:29 | 42.98 | 38.88 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 11:00:29 | 43.31 | 39.21 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:00:30 | 43.64 | 39.54 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:00:30 | 43.96 | 39.86 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 11:00:30 | 44.29 | 40.19 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 11:00:31 | 44.62 | 40.52 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 11:00:31 | 44.95 | 40.85 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 11:00:31 | 45.28 | 41.18 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:32 | 45.60 | 41.50 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:32 | 45.93 | 41.83 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:32 | 46.26 | 42.16 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:00:33 | 46.59 | 42.49 | 1,076 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 11:00:33 | 46.92 | 42.82 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:00:33 | 47.24 | 43.14 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 11:00:33 | 47.57 | 43.47 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 11:00:34 | 47.90 | 43.80 | 1,073 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:00:34 | 48.23 | 44.13 | 1,073 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:00:34 | 48.56 | 44.46 | 1,073 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 11:00:55 | 48.88 | 44.78 | 85 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 11:01:11 | 49.21 | 45.11 | 41 | 0.43 | 0.46 | 2.3 |
| 4/20/2015 11:01:13 | 49.54 | 45.44 | 170 | 0.43 | 0.46 | 9.3 |
| 4/20/2015 11:01:15 | 49.87 | 45.77 | 173 | 0.43 | 0.46 | 9.4 |
| 4/20/2015 11:01:45 | 50.20 | 46.10 | 25 | 0.43 | 0.46 | 1.3 |
| 4/20/2015 11:01:46 | 50.53 | 46.43 | 116 | 0.43 | 0.46 | 6.4 |
| 4/20/2015 11:01:50 | 50.85 | 46.75 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 11:01:52 | 51.18 | 47.08 | 129 | 0.43 | 0.46 | 7.0 |
| 4/20/2015 11:01:54 | 51.51 | 47.41 | 178 | 0.43 | 0.46 | 9.7 |
| 4/20/2015 11:01:57 | 51.84 | 47.74 | 134 | 0.43 | 0.46 | 7.3 |
| 4/20/2015 11:02:01 | 52.17 | 48.07 | 108 | 0.43 | 0.46 | 5.9 |
| 4/20/2015 11:02:06 | 52.49 | 48.39 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 11:02:11 | 52.82 | 48.72 | 69 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 11:02:15 | 53.15 | 49.05 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 11:02:20 | 53.48 | 49.38 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 11:02:25 | 53.81 | 49.71 | 93 | 0.43 | 0.46 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 11:02:30 | 54.13 | 50.03 | 52 | 0.43 | 0.46 | 2.8 |
| 4/20/2015 | 11:02:37 | 54.46 | 50.36 | 62 | 0.43 | 0.46 | 3.4 |
| 4/20/2015 | 11:02:43 | 54.79 | 50.69 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 | 11:02:49 | 55.12 | 51.02 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 | 11:02:54 | 55.45 | 51.35 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 | 11:02:58 | 55.71 | 51.61 | 65 | 0.43 | 0.46 | 3.6 |

## E65 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:58:16

**End Date:**
4/20/2015 11:06:53

**Operator Note:**
'4.1 3.9 b Rock @54"

**Northing:**
368,997.80

**Easting:**
253,552.90

**Tide (feet):**
4.10



## Hole: E66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 1:37:29 | 37.07 | 30.07 | 870 | 1.93 | 0.22 | 47.6 |
| 4/20/2015 1:37:30 | 37.40 | 30.40 | 870 | 1.93 | 0.22 | 47.6 |
| 4/20/2015 1:37:30 | 37.73 | 30.73 | 875 | 1.93 | 0.22 | 47.8 |
| 4/20/2015 1:37:30 | 38.06 | 31.06 | 870 | 1.93 | 0.22 | 47.6 |
| 4/20/2015 1:37:31 | 38.39 | 31.39 | 873 | 1.93 | 0.22 | 47.7 |
| 4/20/2015 1:37:31 | 38.71 | 31.71 | 873 | 1.93 | 0.22 | 47.7 |
| 4/20/2015 1:37:31 | 39.04 | 32.04 | 873 | 1.93 | 0.22 | 47.7 |
| 4/20/2015 1:37:32 | 39.37 | 32.37 | 873 | 1.93 | 0.22 | 47.7 |
| 4/20/2015 1:37:32 | 39.70 | 32.70 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:33 | 40.03 | 33.03 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:33 | 40.35 | 33.35 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:33 | 40.68 | 33.68 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:34 | 41.01 | 34.01 | 868 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:34 | 41.34 | 34.34 | 868 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:35 | 41.67 | 34.67 | 868 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:35 | 41.99 | 34.99 | 868 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:35 | 42.32 | 35.32 | 871 | 1.93 | 0.22 | 47.6 |
| 4/20/2015 1:37:36 | 42.65 | 35.65 | 874 | 1.93 | 0.22 | 47.8 |
| 4/20/2015 1:37:36 | 42.98 | 35.98 | 868 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:37 | 43.31 | 36.31 | 880 | 1.93 | 0.22 | 48.1 |
| 4/20/2015 1:37:38 | 43.64 | 36.64 | 880 | 1.93 | 0.22 | 48.1 |
| 4/20/2015 1:37:37 | 43.96 | 36.96 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:38 | 44.29 | 37.29 | 875 | 1.93 | 0.22 | 47.9 |
| 4/20/2015 1:37:39 | 44.62 | 37.62 | 873 | 1.93 | 0.22 | 47.7 |
| 4/20/2015 1:37:39 | 44.95 | 37.95 | 869 | 1.93 | 0.22 | 47.5 |
| 4/20/2015 1:37:45 | 45.28 | 38.28 | 3 | 1.93 | 0.22 | 0.2 |
| 4/20/2015 1:38:24 | 45.60 | 38.60 | 68 | 1.93 | 0.22 | 3.7 |
| 4/20/2015 1:38:26 | 45.93 | 38.93 | 181 | 1.93 | 0.22 | 9.9 |
| 4/20/2015 1:38:27 | 46.26 | 39.26 | 279 | 1.93 | 0.22 | 15.3 |
| 4/20/2015 1:38:28 | 46.59 | 39.59 | 327 | 1.93 | 0.22 | 17.9 |
| 4/20/2015 1:38:47 | 46.92 | 39.92 | 35 | 1.93 | 0.22 | 1.9 |
| 4/20/2015 1:38:50 | 47.24 | 40.24 | 139 | 1.93 | 0.22 | 7.6 |
| 4/20/2015 1:38:52 | 47.57 | 40.57 | 221 | 1.93 | 0.22 | 12.1 |
| 4/20/2015 1:38:58 | 47.90 | 40.90 | 66 | 1.93 | 0.22 | 3.6 |
| 4/20/2015 1:39:00 | 48.23 | 41.23 | 189 | 1.93 | 0.22 | 10.3 |
| 4/20/2015 1:39:03 | 48.56 | 41.56 | 108 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 1:39:25 | 48.88 | 41.88 | 113 | 1.93 | 0.22 | 6.2 |
| 4/20/2015 1:39:26 | 49.21 | 42.21 | 230 | 1.93 | 0.22 | 12.6 |
| 4/20/2015 1:39:27 | 49.54 | 42.54 | 270 | 1.93 | 0.22 | 14.8 |
| 4/20/2015 1:39:28 | 49.87 | 42.87 | 350 | 1.93 | 0.22 | 19.1 |
| 4/20/2015 1:39:28 | 50.20 | 43.20 | 404 | 1.93 | 0.22 | 22.1 |
| 4/20/2015 1:39:29 | 50.53 | 43.53 | 413 | 1.93 | 0.22 | 22.6 |
| 4/20/2015 1:39:30 | 50.85 | 43.85 | 411 | 1.93 | 0.22 | 22.4 |
| 4/20/2015 1:39:31 | 51.18 | 44.18 | 393 | 1.93 | 0.22 | 21.5 |
| 4/20/2015 1:39:32 | 51.51 | 44.51 | 362 | 1.93 | 0.22 | 19.8 |
| 4/20/2015 1:39:33 | 51.84 | 44.84 | 339 | 1.93 | 0.22 | 18.5 |
| 4/20/2015 1:39:35 | 52.17 | 45.17 | 242 | 1.93 | 0.22 | 13.2 |
| 4/20/2015 1:39:37 | 52.49 | 45.49 | 186 | 1.93 | 0.22 | 10.2 |
| 4/20/2015 1:39:38 | 52.82 | 45.82 | 259 | 1.93 | 0.22 | 14.2 |
| 4/20/2015 1:39:39 | 53.15 | 46.15 | 332 | 1.93 | 0.22 | 18.1 |
| 4/20/2015 1:39:40 | 53.48 | 46.48 | 320 | 1.93 | 0.22 | 17.5 |
| 4/20/2015 1:39:42 | 53.81 | 46.81 | 271 | 1.93 | 0.22 | 14.8 |
| 4/20/2015 1:39:43 | 54.13 | 47.13 | 221 | 1.93 | 0.22 | 12.1 |
| 4/20/2015 1:39:44 | 54.46 | 47.46 | 288 | 1.93 | 0.22 | 15.7 |
| 4/20/2015 1:39:45 | 54.79 | 47.79 | 325 | 1.93 | 0.22 | 17.8 |
| 4/20/2015 1:39:46 | 55.12 | 48.12 | 384 | 1.93 | 0.22 | 21.0 |
| 4/20/2015 1:39:47 | 55.45 | 48.45 | 392 | 1.93 | 0.22 | 21.4 |
| 4/20/2015 1:39:49 | 55.77 | 48.77 | 288 | 1.93 | 0.22 | 15.7 |
| 4/20/2015 1:39:56 | 56.10 | 49.10 | 52 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 1:40:01 | 56.43 | 49.43 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 1:40:05 | 56.76 | 49.76 | 61 | 1.93 | 0.22 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 1:40:08 | 57.09 | 50.09 | 126 | 1.93 | 0.22 | 6.9 |
| 4/20/2015 | 1:40:10 | 57.41 | 50.41 | 223 | 1.93 | 0.22 | 12.2 |
| 4/20/2015 | 1:40:17 | 57.74 | 50.74 | 44 | 1.93 | 0.22 | 2.4 |
| 4/20/2015 | 1:40:21 | 58.07 | 51.07 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 1:40:25 | 58.40 | 51.40 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 1:40:29 | 58.73 | 51.73 | 87 | 1.93 | 0.22 | 4.7 |
| 4/20/2015 | 1:40:33 | 59.06 | 52.06 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 1:40:55 | 59.38 | 52.38 | 81 | 1.93 | 0.22 | 4.5 |
| 4/20/2015 | 1:41:02 | 59.71 | 52.71 | 41 | 1.93 | 0.22 | 2.2 |
| 4/20/2015 | 1:41:05 | 60.04 | 53.04 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 1:41:10 | 60.37 | 53.37 | 68 | 1.93 | 0.22 | 3.7 |
| 4/20/2015 | 1:41:49 | 60.70 | 53.70 | 53 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 | 1:41:56 | 61.02 | 54.02 | 45 | 1.93 | 0.22 | 2.5 |
| 4/20/2015 | 1:42:05 | 61.35 | 54.35 | 29 | 1.93 | 0.22 | 1.6 |
| 4/20/2015 | 2:49:38 | 61.66 | 54.66 | 0 | 1.93 | 0.22 | 0.0 |

## E66 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 1:33:30

**End Date:**
4/20/2015 3:38:04

**Operator Note:**
'7 6.6vb Auto Complete'

**Northing:**
369,053.65

**Easting:**
253,608.65

**Tide (feet):**
7.00



## Hole: E67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 3:42:58 | 36.75 | 30.05 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 3:42:58 | 37.07 | 30.37 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:42:59 | 37.40 | 30.70 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 3:42:59 | 37.73 | 31.03 | 980 | 1.93 | 0.22 | 53.6 |
| 4/20/2015 3:42:59 | 38.06 | 31.36 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:00 | 38.39 | 31.69 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:00 | 38.71 | 32.01 | 983 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:01 | 39.04 | 32.34 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 3:43:01 | 39.37 | 32.67 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 3:43:02 | 39.70 | 33.00 | 974 | 1.93 | 0.22 | 53.3 |
| 4/20/2015 3:43:02 | 40.03 | 33.33 | 989 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 3:43:02 | 40.35 | 33.65 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:03 | 40.68 | 33.98 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:03 | 41.01 | 34.31 | 992 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 3:43:03 | 41.34 | 34.64 | 993 | 1.93 | 0.22 | 54.3 |
| 4/20/2015 3:43:04 | 41.67 | 34.97 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:04 | 41.99 | 35.29 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:04 | 42.32 | 35.62 | 984 | 1.93 | 0.22 | 53.8 |
| 4/20/2015 3:43:05 | 42.65 | 35.95 | 981 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 3:43:05 | 42.98 | 36.28 | 981 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 3:43:05 | 43.31 | 36.61 | 987 | 1.93 | 0.22 | 54.0 |
| 4/20/2015 3:43:06 | 43.64 | 36.94 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 3:43:06 | 43.96 | 37.26 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 3:43:06 | 44.29 | 37.59 | 978 | 1.93 | 0.22 | 53.5 |
| 4/20/2015 3:43:07 | 44.62 | 37.92 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 3:43:07 | 44.95 | 38.25 | 988 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 3:43:08 | 45.28 | 38.58 | 988 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 3:43:08 | 45.60 | 38.90 | 983 | 1.93 | 0.22 | 53.7 |
| 4/20/2015 3:43:08 | 45.93 | 39.23 | 988 | 1.93 | 0.22 | 54.1 |
| 4/20/2015 3:43:38 | 46.26 | 39.56 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 3:43:48 | 46.59 | 39.89 | 12 | 1.93 | 0.22 | 0.6 |
| 4/20/2015 3:43:52 | 46.92 | 40.22 | 115 | 1.93 | 0.22 | 6.3 |
| 4/20/2015 3:44:08 | 47.24 | 40.54 | 26 | 1.93 | 0.22 | 1.4 |
| 4/20/2015 3:44:10 | 47.57 | 40.87 | 143 | 1.93 | 0.22 | 7.8 |
| 4/20/2015 3:44:18 | 47.90 | 41.20 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 3:44:20 | 48.23 | 41.53 | 81 | 1.93 | 0.22 | 4.5 |
| 4/20/2015 3:44:22 | 48.56 | 41.86 | 236 | 1.93 | 0.22 | 12.9 |
| 4/20/2015 3:44:37 | 48.88 | 42.18 | 27 | 1.93 | 0.22 | 1.5 |
| 4/20/2015 3:44:38 | 49.21 | 42.51 | 173 | 1.93 | 0.22 | 9.4 |
| 4/20/2015 3:44:44 | 49.54 | 42.84 | 22 | 1.93 | 0.22 | 1.2 |
| 4/20/2015 3:44:49 | 49.87 | 43.17 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 3:44:50 | 50.20 | 43.50 | 143 | 1.93 | 0.22 | 7.8 |
| 4/20/2015 3:44:51 | 50.53 | 43.83 | 250 | 1.93 | 0.22 | 13.7 |
| 4/20/2015 3:44:52 | 50.85 | 44.15 | 285 | 1.93 | 0.22 | 15.6 |
| 4/20/2015 3:44:53 | 51.18 | 44.48 | 407 | 1.93 | 0.22 | 22.2 |
| 4/20/2015 3:45:12 | 51.51 | 44.81 | 57 | 1.93 | 0.22 | 3.1 |
| 4/20/2015 3:45:15 | 51.84 | 45.14 | 145 | 1.93 | 0.22 | 7.9 |
| 4/20/2015 3:45:15 | 52.17 | 45.47 | 210 | 1.93 | 0.22 | 11.5 |
| 4/20/2015 3:45:16 | 52.49 | 45.79 | 284 | 1.93 | 0.22 | 15.5 |
| 4/20/2015 3:45:17 | 52.82 | 46.12 | 437 | 1.93 | 0.22 | 23.9 |
| 4/20/2015 3:45:24 | 53.15 | 46.45 | 38 | 1.93 | 0.22 | 2.1 |
| 4/20/2015 3:45:25 | 53.48 | 46.78 | 107 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 3:45:26 | 53.81 | 47.11 | 296 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 3:45:26 | 54.13 | 47.43 | 370 | 1.93 | 0.22 | 20.2 |
| 4/20/2015 3:45:37 | 54.46 | 47.76 | 98 | 1.93 | 0.22 | 5.3 |
| 4/20/2015 3:45:38 | 54.79 | 48.09 | 211 | 1.93 | 0.22 | 11.5 |
| 4/20/2015 3:45:39 | 55.12 | 48.42 | 343 | 1.93 | 0.22 | 18.8 |
| 4/20/2015 3:45:40 | 55.45 | 48.75 | 375 | 1.93 | 0.22 | 20.5 |
| 4/20/2015 3:46:33 | 55.77 | 49.07 | 59 | 1.93 | 0.22 | 3.2 |
| 4/20/2015 3:46:33 | 56.10 | 49.40 | 170 | 1.93 | 0.22 | 9.3 |
| 4/20/2015 3:46:34 | 56.43 | 49.73 | 265 | 1.93 | 0.22 | 14.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 3:46:35 | 56.76 | 50.06 | 430 | 1.93 | 0.22 | 23.5 |
| 4/20/2015 | 3:46:51 | 57.09 | 50.39 | 82 | 1.93 | 0.22 | 4.5 |
| 4/20/2015 | 3:46:53 | 57.41 | 50.71 | 182 | 1.93 | 0.22 | 9.9 |
| 4/20/2015 | 3:46:54 | 57.74 | 51.04 | 255 | 1.93 | 0.22 | 13.9 |
| 4/20/2015 | 3:47:09 | 58.07 | 51.37 | 98 | 1.93 | 0.22 | 5.4 |
| 4/20/2015 | 3:47:10 | 58.40 | 51.70 | 149 | 1.93 | 0.22 | 8.1 |
| 4/20/2015 | 3:47:11 | 58.73 | 52.03 | 255 | 1.93 | 0.22 | 13.9 |
| 4/20/2015 | 3:47:12 | 59.06 | 52.36 | 299 | 1.93 | 0.22 | 16.3 |
| 4/20/2015 | 3:48:39 | 59.38 | 52.68 | 18 | 1.93 | 0.22 | 1.0 |
| 4/20/2015 | 3:48:40 | 59.71 | 53.01 | 136 | 1.93 | 0.22 | 7.4 |
| 4/20/2015 | 3:48:41 | 60.04 | 53.34 | 239 | 1.93 | 0.22 | 13.1 |
| 4/20/2015 | 3:48:43 | 60.37 | 53.67 | 305 | 1.93 | 0.22 | 16.7 |
| 4/20/2015 | 3:48:45 | 60.70 | 54.00 | 249 | 1.93 | 0.22 | 13.6 |
| 4/20/2015 | 3:48:47 | 61.02 | 54.32 | 186 | 1.93 | 0.22 | 10.2 |
| 4/20/2015 | 3:48:55 | 61.35 | 54.65 | 65 | 1.93 | 0.22 | 3.6 |
| 4/20/2015 | 3:48:57 | 61.68 | 54.98 | 198 | 1.93 | 0.22 | 10.8 |
| 4/20/2015 | 3:48:58 | 62.01 | 55.31 | 192 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 | 3:49:00 | 62.34 | 55.64 | 204 | 1.93 | 0.22 | 11.2 |

## E67 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 3:41:00

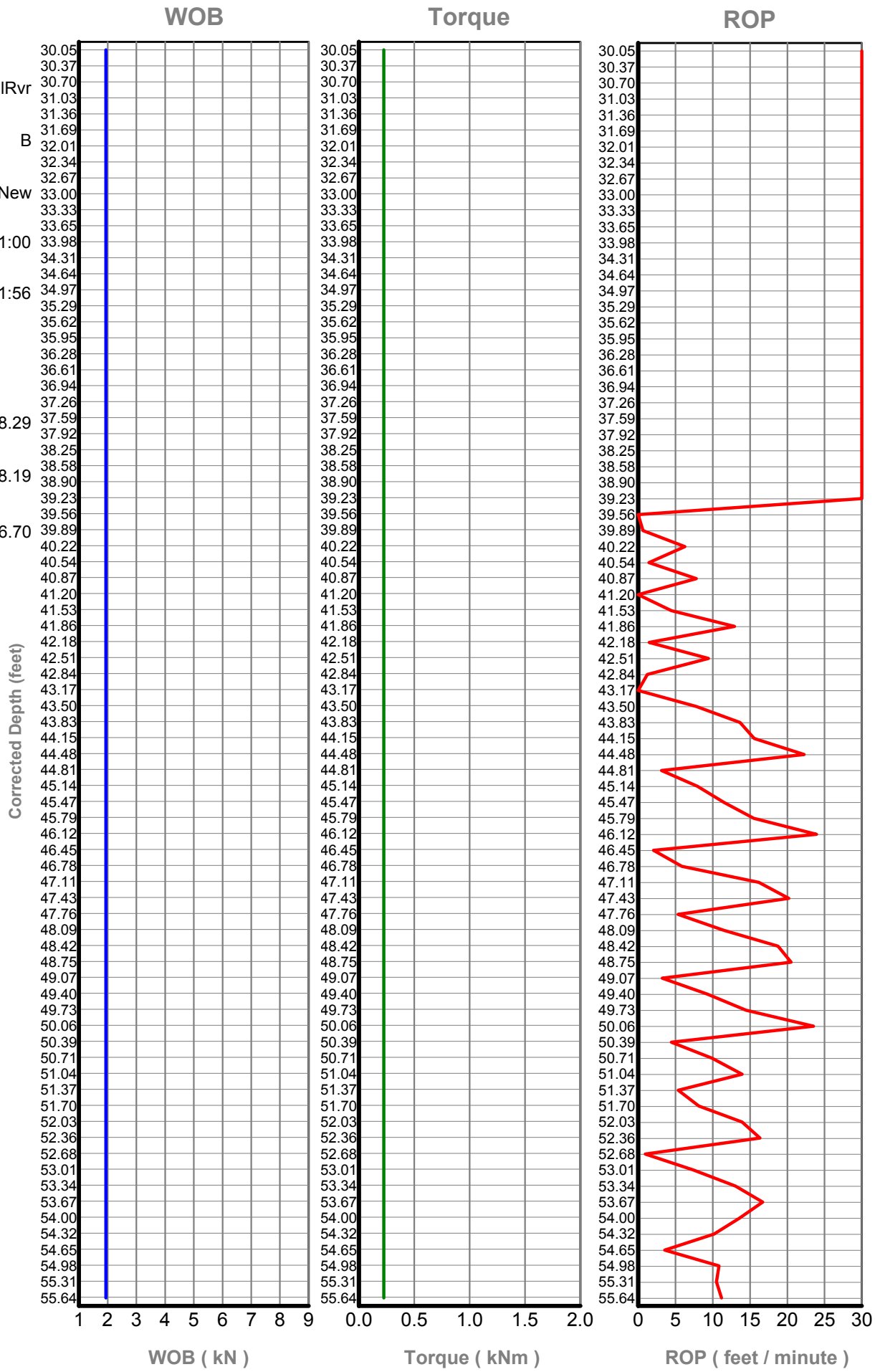
**End Date:**
4/20/2015 3:51:56

**Operator Note:**
'6.7 '7 7.13 b Auto Complete'

**Northing:**
369,098.29

**Easting:**
253,668.19

**Tide (feet):**
6.70



## Hole: E68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 3:57:55 | 36.75 | 30.15 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 3:57:56 | 37.07 | 30.47 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 3:57:56 | 37.40 | 30.80 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 3:57:56 | 37.73 | 31.13 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:57:57 | 38.06 | 31.46 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 3:57:57 | 38.39 | 31.79 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 3:57:57 | 38.71 | 32.11 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 3:57:58 | 39.04 | 32.44 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:57:58 | 39.37 | 32.77 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:57:58 | 39.70 | 33.10 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:57:59 | 40.03 | 33.43 | 1,045 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 3:57:59 | 40.35 | 33.75 | 1,045 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 3:57:59 | 40.68 | 34.08 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 3:58:00 | 41.01 | 34.41 | 1,042 | 1.93 | 0.22 | 57.0 |
| 4/20/2015 3:58:00 | 41.34 | 34.74 | 1,042 | 1.93 | 0.22 | 57.0 |
| 4/20/2015 3:58:00 | 41.67 | 35.07 | 1,039 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 3:58:01 | 41.99 | 35.39 | 1,048 | 1.93 | 0.22 | 57.3 |
| 4/20/2015 3:58:01 | 42.32 | 35.72 | 1,048 | 1.93 | 0.22 | 57.3 |
| 4/20/2015 3:58:01 | 42.65 | 36.05 | 1,032 | 1.93 | 0.22 | 56.4 |
| 4/20/2015 3:58:02 | 42.98 | 36.38 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 3:58:02 | 43.31 | 36.71 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 3:58:02 | 43.64 | 37.04 | 1,032 | 1.93 | 0.22 | 56.4 |
| 4/20/2015 3:58:03 | 43.96 | 37.36 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 3:58:03 | 44.29 | 37.69 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 3:58:03 | 44.62 | 38.02 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:58:04 | 44.95 | 38.35 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 3:58:05 | 45.28 | 38.68 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 3:58:04 | 45.60 | 39.00 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:58:05 | 45.93 | 39.33 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 3:58:23 | 46.26 | 39.66 | 17 | 1.93 | 0.22 | 0.9 |
| 4/20/2015 3:58:26 | 46.59 | 39.99 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 3:58:28 | 46.92 | 40.32 | 182 | 1.93 | 0.22 | 10.0 |
| 4/20/2015 3:58:48 | 47.24 | 40.64 | 26 | 1.93 | 0.22 | 1.4 |
| 4/20/2015 3:58:51 | 47.57 | 40.97 | 115 | 1.93 | 0.22 | 6.3 |
| 4/20/2015 3:59:01 | 47.90 | 41.30 | 15 | 1.93 | 0.22 | 0.8 |
| 4/20/2015 3:59:05 | 48.23 | 41.63 | 111 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 3:59:07 | 48.56 | 41.96 | 143 | 1.93 | 0.22 | 7.8 |
| 4/20/2015 3:59:08 | 48.88 | 42.28 | 235 | 1.93 | 0.22 | 12.8 |
| 4/20/2015 3:59:09 | 49.21 | 42.61 | 259 | 1.93 | 0.22 | 14.1 |
| 4/20/2015 3:59:33 | 49.54 | 42.94 | 53 | 1.93 | 0.22 | 2.9 |
| 4/20/2015 3:59:39 | 49.87 | 43.27 | 64 | 1.93 | 0.22 | 3.5 |
| 4/20/2015 3:59:41 | 50.20 | 43.60 | 178 | 1.93 | 0.22 | 9.7 |
| 4/20/2015 3:59:43 | 50.53 | 43.93 | 192 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 3:59:44 | 50.85 | 44.25 | 206 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 3:59:46 | 51.18 | 44.58 | 228 | 1.93 | 0.22 | 12.5 |
| 4/20/2015 3:59:48 | 51.51 | 44.91 | 239 | 1.93 | 0.22 | 13.0 |
| 4/20/2015 3:59:49 | 51.84 | 45.24 | 250 | 1.93 | 0.22 | 13.7 |
| 4/20/2015 3:59:50 | 52.17 | 45.57 | 332 | 1.93 | 0.22 | 18.2 |
| 4/20/2015 3:59:50 | 52.49 | 45.89 | 373 | 1.93 | 0.22 | 20.4 |
| 4/20/2015 3:59:51 | 52.82 | 46.22 | 425 | 1.93 | 0.22 | 23.2 |
| 4/20/2015 4:00:13 | 53.15 | 46.55 | 14 | 1.93 | 0.22 | 0.8 |
| 4/20/2015 4:00:14 | 53.48 | 46.88 | 171 | 1.93 | 0.22 | 9.4 |
| 4/20/2015 4:00:15 | 53.81 | 47.21 | 276 | 1.93 | 0.22 | 15.1 |
| 4/20/2015 4:00:20 | 54.13 | 47.53 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 4:00:21 | 54.46 | 47.86 | 139 | 1.93 | 0.22 | 7.6 |
| 4/20/2015 4:00:22 | 54.79 | 48.19 | 302 | 1.93 | 0.22 | 16.5 |
| 4/20/2015 4:00:28 | 55.12 | 48.52 | 12 | 1.93 | 0.22 | 0.6 |
| 4/20/2015 4:00:29 | 55.45 | 48.85 | 112 | 1.93 | 0.22 | 6.1 |
| 4/20/2015 4:00:30 | 55.77 | 49.17 | 257 | 1.93 | 0.22 | 14.1 |
| 4/20/2015 4:00:31 | 56.10 | 49.50 | 383 | 1.93 | 0.22 | 20.9 |
| 4/20/2015 4:00:31 | 56.43 | 49.83 | 395 | 1.93 | 0.22 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 4:00:51 | 56.76 | 50.16 | 107 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 | 4:00:52 | 57.09 | 50.49 | 252 | 1.93 | 0.22 | 13.8 |
| 4/20/2015 | 4:00:52 | 57.41 | 50.81 | 326 | 1.93 | 0.22 | 17.8 |
| 4/20/2015 | 4:00:54 | 57.74 | 51.14 | 347 | 1.93 | 0.22 | 19.0 |
| 4/20/2015 | 4:00:55 | 58.07 | 51.47 | 262 | 1.93 | 0.22 | 14.3 |
| 4/20/2015 | 4:01:17 | 58.40 | 51.80 | 50 | 1.93 | 0.22 | 2.7 |
| 4/20/2015 | 4:01:19 | 58.73 | 52.13 | 168 | 1.93 | 0.22 | 9.2 |
| 4/20/2015 | 4:01:21 | 59.06 | 52.46 | 180 | 1.93 | 0.22 | 9.9 |
| 4/20/2015 | 4:01:23 | 59.38 | 52.78 | 192 | 1.93 | 0.22 | 10.5 |
| 4/20/2015 | 4:01:25 | 59.71 | 53.11 | 179 | 1.93 | 0.22 | 9.8 |
| 4/20/2015 | 4:01:27 | 60.04 | 53.44 | 183 | 1.93 | 0.22 | 10.0 |
| 4/20/2015 | 4:01:29 | 60.37 | 53.77 | 166 | 1.93 | 0.22 | 9.1 |
| 4/20/2015 | 4:01:32 | 60.70 | 54.10 | 131 | 1.93 | 0.22 | 7.1 |
| 4/20/2015 | 4:01:35 | 61.02 | 54.42 | 108 | 1.93 | 0.22 | 5.9 |
| 4/20/2015 | 4:01:38 | 61.35 | 54.75 | 111 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 | 4:01:42 | 61.68 | 55.08 | 110 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 | 4:01:45 | 62.01 | 55.41 | 119 | 1.93 | 0.22 | 6.5 |

## E68 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 3:56:13

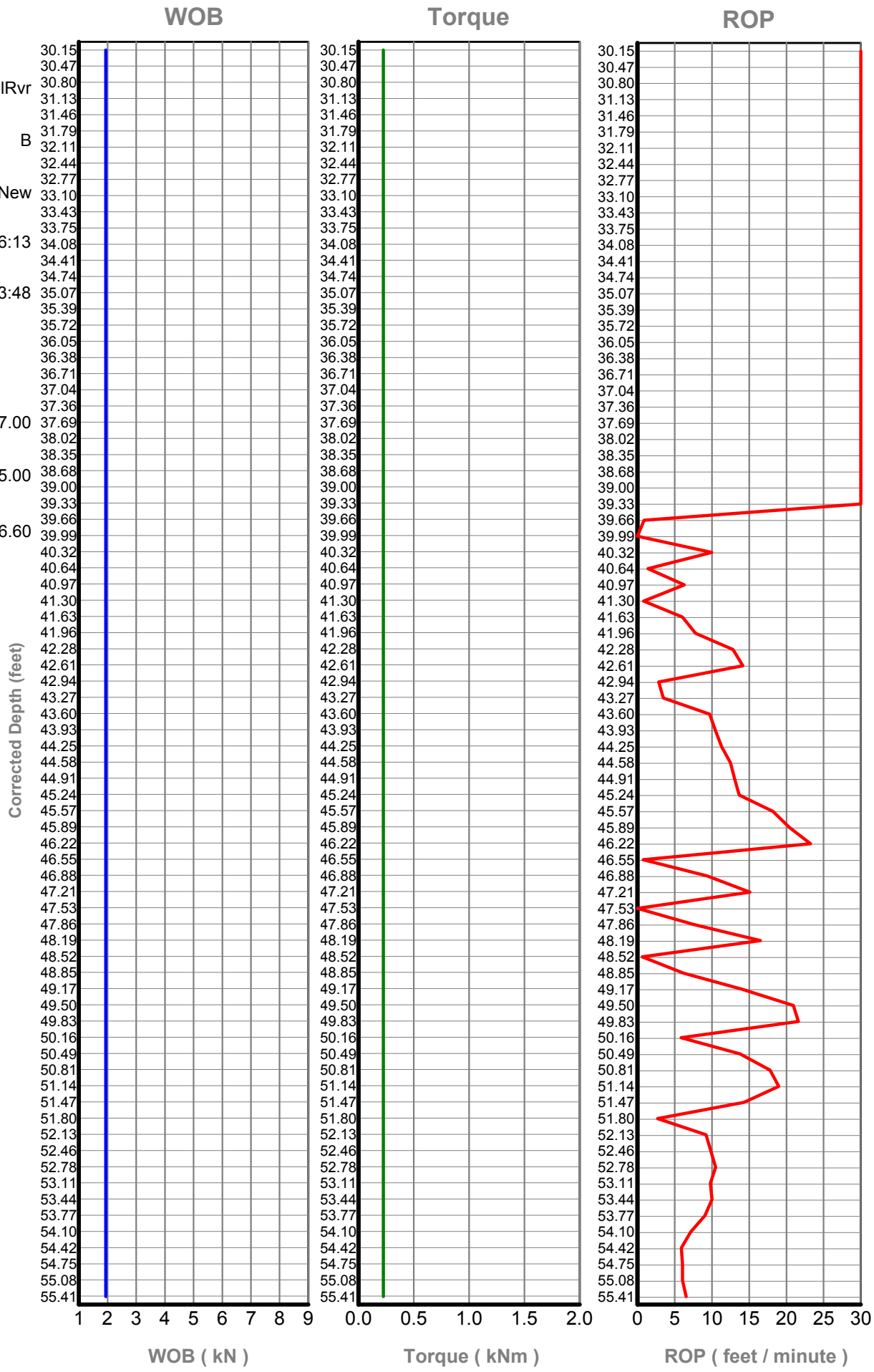
**End Date:**
4/20/2015 4:03:48

**Operator Note:**
'6.6 '6.7 '7 6.96 b Auto Complete'

**Northing:**
369,147.00

**Easting:**
253,735.00

**Tide (feet):**
6.60



## Hole: E69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 18:23:37 | 32.81 | 30.21 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:23:37 | 33.14 | 30.54 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:23:38 | 33.46 | 30.86 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:23:38 | 33.79 | 31.19 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:23:38 | 34.12 | 31.52 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:23:39 | 34.45 | 31.85 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:23:39 | 34.78 | 32.18 | 998 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:23:39 | 35.11 | 32.51 | 994 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 18:23:40 | 35.43 | 32.83 | 994 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 18:23:40 | 35.76 | 33.16 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:23:40 | 36.09 | 33.49 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 18:23:41 | 36.42 | 33.82 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:23:41 | 36.75 | 34.15 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:23:41 | 37.07 | 34.47 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:23:42 | 37.40 | 34.80 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:23:42 | 37.73 | 35.13 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:23:42 | 38.06 | 35.46 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:23:43 | 38.39 | 35.79 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:23:43 | 38.71 | 36.11 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:23:44 | 39.04 | 36.44 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:23:44 | 39.37 | 36.77 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:23:45 | 39.70 | 37.10 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 18:23:45 | 40.03 | 37.43 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 18:23:45 | 40.35 | 37.75 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 18:23:46 | 40.68 | 38.08 | 972 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:23:46 | 41.01 | 38.41 | 972 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:23:46 | 41.34 | 38.74 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:23:47 | 41.67 | 39.07 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:23:47 | 41.99 | 39.39 | 909 | 1.93 | 0.22 | 49.7 |
| 4/19/2015 18:24:03 | 42.32 | 39.72 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:24:04 | 42.65 | 40.05 | 144 | 1.93 | 0.22 | 7.9 |
| 4/19/2015 18:24:04 | 42.98 | 40.38 | 256 | 1.93 | 0.22 | 14.0 |
| 4/19/2015 18:24:21 | 43.31 | 40.71 | 46 | 1.93 | 0.22 | 2.5 |
| 4/19/2015 18:24:24 | 43.64 | 41.04 | 136 | 1.93 | 0.22 | 7.4 |
| 4/19/2015 18:24:28 | 43.96 | 41.36 | 37 | 1.93 | 0.22 | 2.0 |
| 4/19/2015 18:24:29 | 44.29 | 41.69 | 220 | 1.93 | 0.22 | 12.0 |
| 4/19/2015 18:24:30 | 44.62 | 42.02 | 314 | 1.93 | 0.22 | 17.2 |
| 4/19/2015 18:24:31 | 44.95 | 42.35 | 403 | 1.93 | 0.22 | 22.0 |
| 4/19/2015 18:24:46 | 45.28 | 42.68 | 49 | 1.93 | 0.22 | 2.7 |
| 4/19/2015 18:24:47 | 45.60 | 43.00 | 191 | 1.93 | 0.22 | 10.4 |
| 4/19/2015 18:24:48 | 45.93 | 43.33 | 314 | 1.93 | 0.22 | 17.2 |
| 4/19/2015 18:25:04 | 46.26 | 43.66 | 26 | 1.93 | 0.22 | 1.4 |
| 4/19/2015 18:25:05 | 46.59 | 43.99 | 177 | 1.93 | 0.22 | 9.7 |
| 4/19/2015 18:25:07 | 46.92 | 44.32 | 249 | 1.93 | 0.22 | 13.6 |
| 4/19/2015 18:25:07 | 47.24 | 44.64 | 306 | 1.93 | 0.22 | 16.7 |
| 4/19/2015 18:25:08 | 47.57 | 44.97 | 356 | 1.93 | 0.22 | 19.5 |
| 4/19/2015 18:25:09 | 47.90 | 45.30 | 396 | 1.93 | 0.22 | 21.6 |
| 4/19/2015 18:25:10 | 48.23 | 45.63 | 408 | 1.93 | 0.22 | 22.3 |
| 4/19/2015 18:25:11 | 48.56 | 45.96 | 440 | 1.93 | 0.22 | 24.1 |
| 4/19/2015 18:25:11 | 48.88 | 46.28 | 484 | 1.93 | 0.22 | 26.5 |
| 4/19/2015 18:25:12 | 49.21 | 46.61 | 518 | 1.93 | 0.22 | 28.3 |
| 4/19/2015 18:25:12 | 49.54 | 46.94 | 544 | 1.93 | 0.22 | 29.7 |
| 4/19/2015 18:25:13 | 49.87 | 47.27 | 561 | 1.93 | 0.22 | 30.7 |
| 4/19/2015 18:25:14 | 50.20 | 47.60 | 558 | 1.93 | 0.22 | 30.5 |
| 4/19/2015 18:25:14 | 50.53 | 47.93 | 564 | 1.93 | 0.22 | 30.8 |
| 4/19/2015 18:25:15 | 50.85 | 48.25 | 544 | 1.93 | 0.22 | 29.7 |
| 4/19/2015 18:25:16 | 51.18 | 48.58 | 520 | 1.93 | 0.22 | 28.5 |
| 4/19/2015 18:25:19 | 51.51 | 48.91 | 103 | 1.93 | 0.22 | 5.7 |
| 4/19/2015 18:25:21 | 51.84 | 49.24 | 169 | 1.93 | 0.22 | 9.2 |
| 4/19/2015 18:25:37 | 52.17 | 49.57 | 59 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 18:25:38 | 52.49 | 49.89 | 262 | 1.93 | 0.22 | 14.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 18:25:38 | 52.82 | 50.22 | 386 | 1.93 | 0.22 | 21.1 |
| 4/19/2015 | 18:25:39 | 53.15 | 50.55 | 492 | 1.93 | 0.22 | 26.9 |
| 4/19/2015 | 18:25:40 | 53.48 | 50.88 | 521 | 1.93 | 0.22 | 28.5 |
| 4/19/2015 | 18:25:41 | 53.81 | 51.21 | 484 | 1.93 | 0.22 | 26.5 |
| 4/19/2015 | 18:25:42 | 54.13 | 51.53 | 380 | 1.93 | 0.22 | 20.8 |
| 4/19/2015 | 18:25:43 | 54.46 | 51.86 | 334 | 1.93 | 0.22 | 18.3 |
| 4/19/2015 | 18:25:44 | 54.79 | 52.19 | 349 | 1.93 | 0.22 | 19.1 |
| 4/19/2015 | 18:25:45 | 55.12 | 52.52 | 354 | 1.93 | 0.22 | 19.4 |
| 4/19/2015 | 18:25:46 | 55.45 | 52.85 | 383 | 1.93 | 0.22 | 20.9 |
| 4/19/2015 | 18:25:47 | 55.77 | 53.17 | 398 | 1.93 | 0.22 | 21.8 |
| 4/19/2015 | 18:25:48 | 56.10 | 53.50 | 375 | 1.93 | 0.22 | 20.5 |
| 4/19/2015 | 18:25:49 | 56.43 | 53.83 | 334 | 1.93 | 0.22 | 18.3 |
| 4/19/2015 | 18:25:50 | 56.76 | 54.16 | 332 | 1.93 | 0.22 | 18.2 |
| 4/19/2015 | 18:25:51 | 57.09 | 54.49 | 340 | 1.93 | 0.22 | 18.6 |
| 4/19/2015 | 18:25:52 | 57.41 | 54.81 | 294 | 1.93 | 0.22 | 16.1 |
| 4/19/2015 | 18:25:54 | 57.74 | 55.14 | 259 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 | 18:25:55 | 58.03 | 55.43 | 253 | 1.93 | 0.22 | 13.8 |

## E69 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 18:21:39

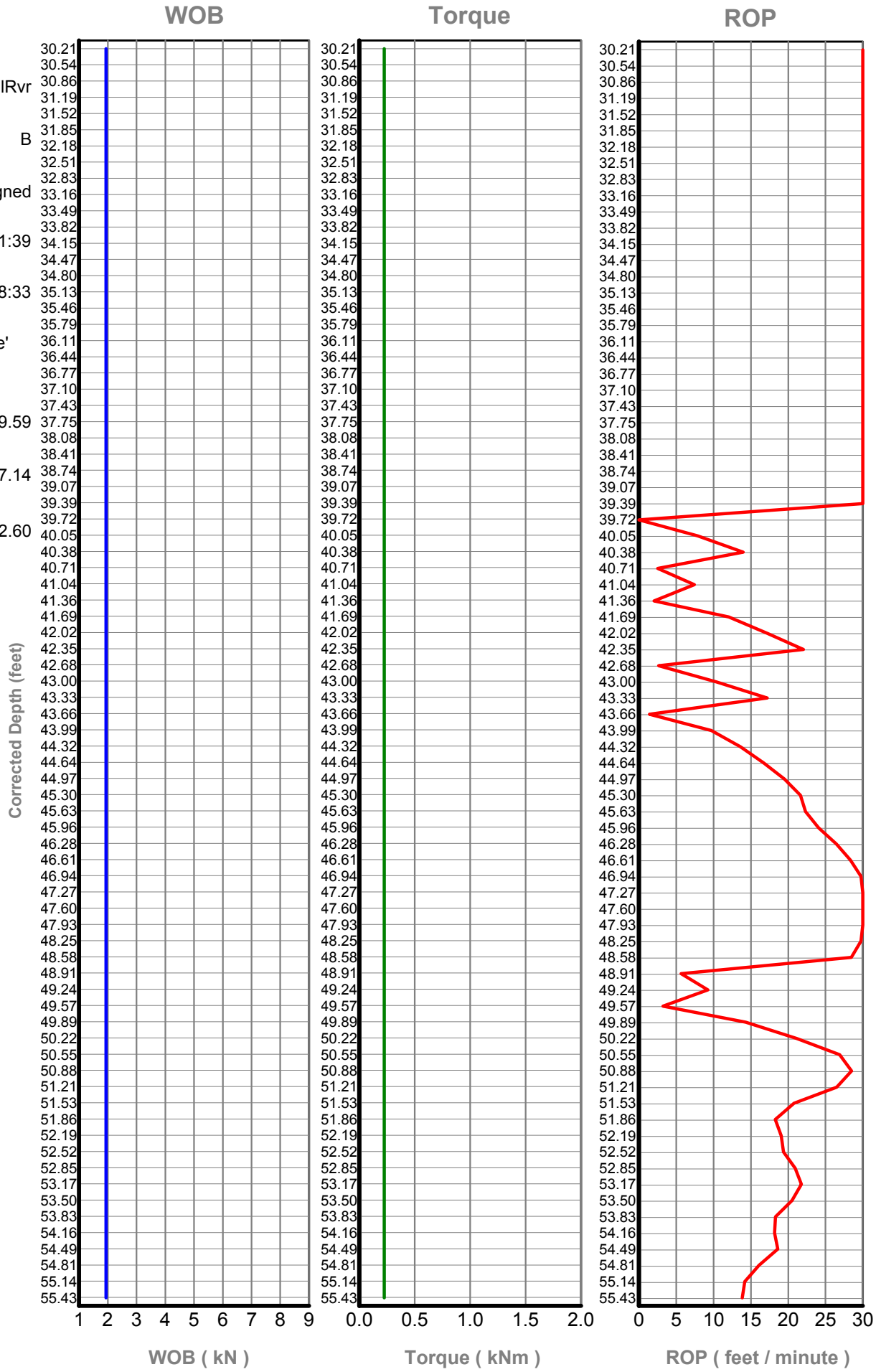
**End Date:**
4/19/2015 18:28:33

**Operator Note:**
'2.6 3.0 b Auto Complete'

**Northing:**
369,179.59

**Easting:**
253,787.14

**Tide (feet):**
2.60



## Hole: E7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 13:16:21 | 37.07 | 30.07 | 532 | 1.61 | 0.25 | 29.1 |
| 4/20/2015 13:16:21 | 37.40 | 30.40 | 532 | 1.62 | 0.25 | 29.1 |
| 4/20/2015 13:16:22 | 37.73 | 30.73 | 535 | 1.62 | 0.25 | 29.2 |
| 4/20/2015 13:16:23 | 38.06 | 31.06 | 529 | 1.62 | 0.25 | 28.9 |
| 4/20/2015 13:16:23 | 38.39 | 31.39 | 532 | 1.62 | 0.25 | 29.1 |
| 4/20/2015 13:16:24 | 38.71 | 31.71 | 529 | 1.62 | 0.25 | 28.9 |
| 4/20/2015 13:16:25 | 39.04 | 32.04 | 529 | 1.63 | 0.25 | 28.9 |
| 4/20/2015 13:16:25 | 39.37 | 32.37 | 532 | 1.64 | 0.25 | 29.1 |
| 4/20/2015 13:16:42 | 39.70 | 32.70 | 14 | 1.74 | 0.79 | 0.8 |
| 4/20/2015 13:16:43 | 40.03 | 33.03 | 173 | 1.72 | 0.81 | 9.5 |
| 4/20/2015 13:16:44 | 40.35 | 33.35 | 279 | 1.73 | 0.95 | 15.3 |
| 4/20/2015 13:16:47 | 40.68 | 33.68 | 116 | 1.77 | 1.32 | 6.3 |
| 4/20/2015 13:16:49 | 41.01 | 34.01 | 159 | 1.73 | 0.87 | 8.7 |
| 4/20/2015 13:16:50 | 41.34 | 34.34 | 233 | 1.75 | 0.93 | 12.8 |
| 4/20/2015 13:16:52 | 41.67 | 34.67 | 273 | 1.73 | 0.96 | 14.9 |
| 4/20/2015 13:16:54 | 41.99 | 34.99 | 125 | 1.76 | 1.38 | 6.8 |
| 4/20/2015 13:16:56 | 42.32 | 35.32 | 130 | 1.79 | 1.04 | 7.1 |
| 4/20/2015 13:16:57 | 42.65 | 35.65 | 218 | 1.79 | 1.15 | 11.9 |
| 4/20/2015 13:16:59 | 42.98 | 35.98 | 206 | 1.79 | 1.21 | 11.2 |
| 4/20/2015 13:17:01 | 43.31 | 36.31 | 219 | 1.77 | 1.20 | 12.0 |
| 4/20/2015 13:17:02 | 43.64 | 36.64 | 234 | 1.76 | 1.05 | 12.8 |
| 4/20/2015 13:17:04 | 43.96 | 36.96 | 210 | 1.81 | 1.27 | 11.5 |
| 4/20/2015 13:17:07 | 44.29 | 37.29 | 101 | 1.75 | 0.98 | 5.5 |
| 4/20/2015 13:17:10 | 44.62 | 37.62 | 199 | 1.77 | 1.04 | 10.9 |
| 4/20/2015 13:17:11 | 44.95 | 37.95 | 203 | 1.79 | 1.00 | 11.1 |
| 4/20/2015 13:17:13 | 45.28 | 38.28 | 204 | 1.79 | 1.06 | 11.2 |
| 4/20/2015 13:17:14 | 45.60 | 38.60 | 205 | 1.78 | 0.97 | 11.2 |
| 4/20/2015 13:17:18 | 45.93 | 38.93 | 93 | 1.84 | 1.15 | 5.1 |
| 4/20/2015 13:17:23 | 46.26 | 39.26 | 66 | 1.83 | 1.13 | 3.6 |
| 4/20/2015 13:17:29 | 46.59 | 39.59 | 61 | 1.84 | 1.14 | 3.3 |
| 4/20/2015 13:17:32 | 46.92 | 39.92 | 112 | 1.83 | 1.07 | 6.1 |
| 4/20/2015 13:17:39 | 47.24 | 40.24 | 49 | 1.84 | 1.11 | 2.7 |
| 4/20/2015 13:17:46 | 47.57 | 40.57 | 37 | 1.84 | 1.08 | 2.0 |
| 4/20/2015 13:17:53 | 47.90 | 40.90 | 64 | 1.83 | 1.11 | 3.5 |
| 4/20/2015 13:17:58 | 48.23 | 41.23 | 64 | 1.83 | 1.18 | 3.5 |
| 4/20/2015 13:18:02 | 48.56 | 41.56 | 91 | 1.83 | 1.13 | 5.0 |
| 4/20/2015 13:18:09 | 48.88 | 41.88 | 53 | 1.83 | 1.06 | 2.9 |
| 4/20/2015 13:18:18 | 49.21 | 42.21 | 35 | 1.82 | 1.01 | 1.9 |
| 4/20/2015 13:18:27 | 49.54 | 42.54 | 40 | 1.81 | 1.03 | 2.2 |
| 4/20/2015 13:18:33 | 49.75 | 42.75 | 41 | 1.81 | 1.15 | 2.2 |

## E7 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 13:13:59

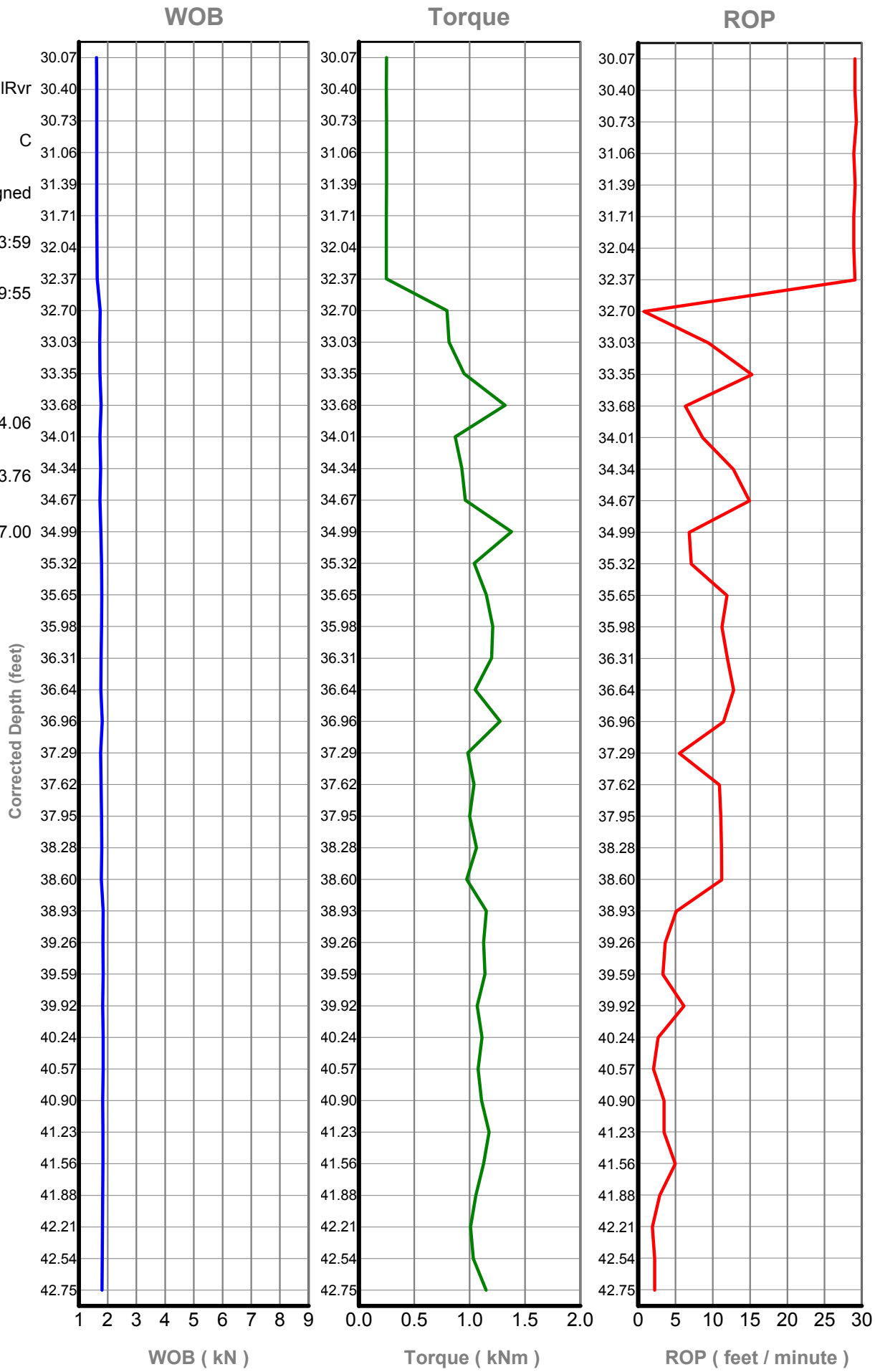
**End Date:**
4/20/2015 13:19:55

**Operator Note:**
'7 6.7 c Auto Complete'

**Northing:**
369,034.06

**Easting:**
253,233.76

**Tide (feet):**
7.00



## Hole: E70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 18:31:44 | 32.81 | 30.31 | 1,024 | 1.93 | 0.22 | 56.0 |
| 4/19/2015 18:31:45 | 33.14 | 30.64 | 1,024 | 1.93 | 0.22 | 56.0 |
| 4/19/2015 18:31:45 | 33.46 | 30.96 | 1,008 | 1.93 | 0.22 | 55.1 |
| 4/19/2015 18:31:45 | 33.79 | 31.29 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:46 | 34.12 | 31.62 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:46 | 34.45 | 31.95 | 1,017 | 1.93 | 0.22 | 55.6 |
| 4/19/2015 18:31:46 | 34.78 | 32.28 | 1,012 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:31:47 | 35.11 | 32.61 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:47 | 35.43 | 32.93 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:47 | 35.76 | 33.26 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:31:48 | 36.09 | 33.59 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:31:48 | 36.42 | 33.92 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:31:48 | 36.75 | 34.25 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:31:49 | 37.07 | 34.57 | 997 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:31:49 | 37.40 | 34.90 | 997 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:31:49 | 37.73 | 35.23 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:31:50 | 38.06 | 35.56 | 997 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:31:50 | 38.39 | 35.89 | 997 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:31:50 | 38.71 | 36.21 | 998 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:31:51 | 39.04 | 36.54 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:51 | 39.37 | 36.87 | 1,003 | 1.93 | 0.22 | 54.8 |
| 4/19/2015 18:31:51 | 39.70 | 37.20 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:31:52 | 40.03 | 37.53 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:31:52 | 40.35 | 37.85 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:31:53 | 40.68 | 38.18 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:31:53 | 41.01 | 38.51 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 18:31:53 | 41.34 | 38.84 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:31:54 | 41.67 | 39.17 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:31:54 | 41.99 | 39.49 | 990 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:31:55 | 42.32 | 39.82 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:31:55 | 42.65 | 40.15 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:31:55 | 42.98 | 40.48 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:31:56 | 43.31 | 40.81 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:32:04 | 43.64 | 41.14 | 108 | 1.93 | 0.22 | 5.9 |
| 4/19/2015 18:32:06 | 43.96 | 41.46 | 125 | 1.93 | 0.22 | 6.9 |
| 4/19/2015 18:32:07 | 44.29 | 41.79 | 250 | 1.93 | 0.22 | 13.7 |
| 4/19/2015 18:32:14 | 44.62 | 42.12 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:32:18 | 44.95 | 42.45 | 64 | 1.93 | 0.22 | 3.5 |
| 4/19/2015 18:32:19 | 45.28 | 42.78 | 179 | 1.93 | 0.22 | 9.8 |
| 4/19/2015 18:32:20 | 45.60 | 43.10 | 260 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 18:32:31 | 45.93 | 43.43 | 71 | 1.93 | 0.22 | 3.9 |
| 4/19/2015 18:32:32 | 46.26 | 43.76 | 195 | 1.93 | 0.22 | 10.6 |
| 4/19/2015 18:32:33 | 46.59 | 44.09 | 319 | 1.93 | 0.22 | 17.4 |
| 4/19/2015 18:32:34 | 46.92 | 44.42 | 303 | 1.93 | 0.22 | 16.5 |
| 4/19/2015 18:32:36 | 47.24 | 44.74 | 282 | 1.93 | 0.22 | 15.4 |
| 4/19/2015 18:32:43 | 47.57 | 45.07 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:32:45 | 47.90 | 45.40 | 120 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 18:32:47 | 48.23 | 45.73 | 156 | 1.93 | 0.22 | 8.5 |
| 4/19/2015 18:32:51 | 48.56 | 46.06 | 87 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 18:32:53 | 48.88 | 46.38 | 137 | 1.93 | 0.22 | 7.5 |
| 4/19/2015 18:32:56 | 49.21 | 46.71 | 134 | 1.93 | 0.22 | 7.3 |
| 4/19/2015 18:32:57 | 49.54 | 47.04 | 183 | 1.93 | 0.22 | 10.0 |
| 4/19/2015 18:32:58 | 49.87 | 47.37 | 259 | 1.93 | 0.22 | 14.2 |
| 4/19/2015 18:32:59 | 50.20 | 47.70 | 323 | 1.93 | 0.22 | 17.7 |
| 4/19/2015 18:33:00 | 50.53 | 48.03 | 372 | 1.93 | 0.22 | 20.4 |
| 4/19/2015 18:33:01 | 50.85 | 48.35 | 385 | 1.93 | 0.22 | 21.0 |
| 4/19/2015 18:33:02 | 51.18 | 48.68 | 348 | 1.93 | 0.22 | 19.0 |
| 4/19/2015 18:33:04 | 51.51 | 49.01 | 228 | 1.93 | 0.22 | 12.5 |
| 4/19/2015 18:33:05 | 51.84 | 49.34 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 18:33:07 | 52.17 | 49.67 | 272 | 1.93 | 0.22 | 14.9 |
| 4/19/2015 18:33:08 | 52.49 | 49.99 | 335 | 1.93 | 0.22 | 18.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 18:33:10 | 52.82 | 50.32 | 131 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 | 18:33:12 | 53.15 | 50.65 | 161 | 1.93 | 0.22 | 8.8 |
| 4/19/2015 | 18:33:13 | 53.48 | 50.98 | 250 | 1.93 | 0.22 | 13.7 |
| 4/19/2015 | 18:33:15 | 53.81 | 51.31 | 306 | 1.93 | 0.22 | 16.8 |
| 4/19/2015 | 18:33:16 | 54.13 | 51.63 | 304 | 1.93 | 0.22 | 16.6 |
| 4/19/2015 | 18:33:17 | 54.46 | 51.96 | 346 | 1.93 | 0.22 | 18.9 |
| 4/19/2015 | 18:33:18 | 54.79 | 52.29 | 329 | 1.93 | 0.22 | 18.0 |
| 4/19/2015 | 18:33:19 | 55.12 | 52.62 | 277 | 1.93 | 0.22 | 15.2 |
| 4/19/2015 | 18:33:21 | 55.45 | 52.95 | 238 | 1.93 | 0.22 | 13.0 |
| 4/19/2015 | 18:33:23 | 55.77 | 53.27 | 179 | 1.93 | 0.22 | 9.8 |
| 4/19/2015 | 18:33:24 | 56.10 | 53.60 | 183 | 1.93 | 0.22 | 10.0 |
| 4/19/2015 | 18:33:27 | 56.43 | 53.93 | 189 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 | 18:33:28 | 56.76 | 54.26 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 | 18:33:29 | 57.09 | 54.59 | 254 | 1.93 | 0.22 | 13.9 |
| 4/19/2015 | 18:33:30 | 57.41 | 54.91 | 271 | 1.93 | 0.22 | 14.8 |
| 4/19/2015 | 18:33:33 | 57.74 | 55.24 | 146 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 | 18:33:35 | 57.99 | 55.49 | 139 | 1.93 | 0.22 | 7.6 |

## E70 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 18:29:54

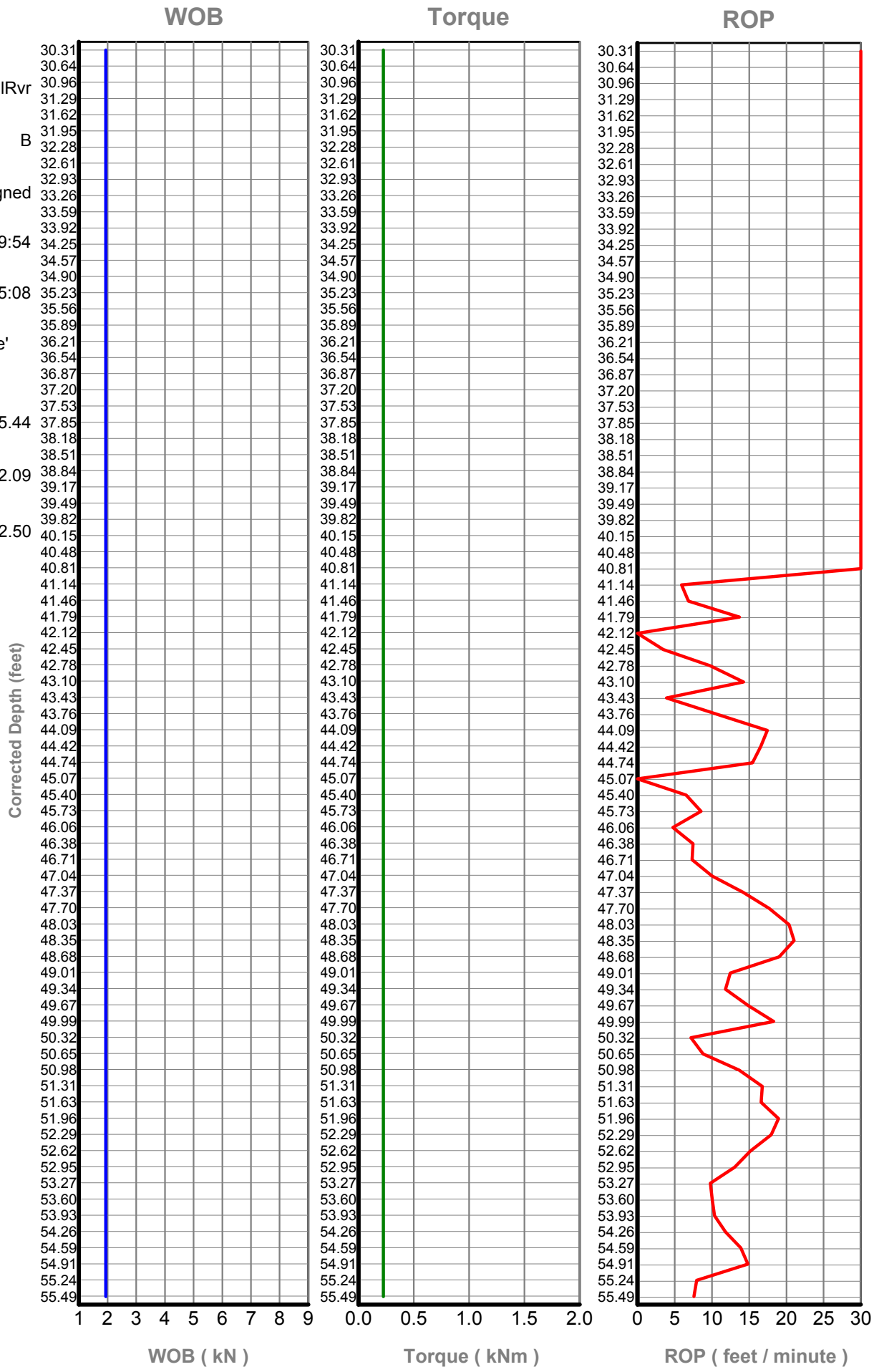
**End Date:**
4/19/2015 18:35:08

**Operator Note:**
'2.5 3.0 b Auto Complete'

**Northing:**
369,225.44

**Easting:**
253,832.09

**Tide (feet):**
2.50



## Hole: E71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 18:40:51 | 32.48 | 30.08 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:40:51 | 32.81 | 30.41 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:40:52 | 33.14 | 30.74 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:40:52 | 33.46 | 31.06 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:40:52 | 33.79 | 31.39 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:40:53 | 34.12 | 31.72 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:40:53 | 34.45 | 32.05 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:40:53 | 34.78 | 32.38 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:40:54 | 35.11 | 32.71 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:40:54 | 35.43 | 33.03 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:40:54 | 35.76 | 33.36 | 983 | 1.93 | 0.22 | 53.7 |
| 4/19/2015 18:40:55 | 36.09 | 33.69 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:40:55 | 36.42 | 34.02 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:40:55 | 36.75 | 34.35 | 981 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:40:56 | 37.07 | 34.67 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:40:56 | 37.40 | 35.00 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:40:57 | 37.73 | 35.33 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:40:57 | 38.06 | 35.66 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:40:57 | 38.39 | 35.99 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:40:58 | 38.71 | 36.31 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:40:58 | 39.04 | 36.64 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:40:58 | 39.37 | 36.97 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:40:59 | 39.70 | 37.30 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:40:59 | 40.03 | 37.63 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:41:00 | 40.35 | 37.95 | 984 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:41:00 | 40.68 | 38.28 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:41:01 | 41.01 | 38.61 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:41:01 | 41.34 | 38.94 | 968 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 18:41:01 | 41.67 | 39.27 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:41:02 | 41.99 | 39.59 | 957 | 1.93 | 0.22 | 52.3 |
| 4/19/2015 18:41:12 | 42.32 | 39.92 | 34 | 1.93 | 0.22 | 1.9 |
| 4/19/2015 18:41:13 | 42.65 | 40.25 | 170 | 1.93 | 0.22 | 9.3 |
| 4/19/2015 18:41:14 | 42.98 | 40.58 | 324 | 1.93 | 0.22 | 17.7 |
| 4/19/2015 18:41:15 | 43.31 | 40.91 | 349 | 1.93 | 0.22 | 19.1 |
| 4/19/2015 18:41:18 | 43.64 | 41.24 | 178 | 1.93 | 0.22 | 9.7 |
| 4/19/2015 18:41:18 | 43.96 | 41.56 | 218 | 1.93 | 0.22 | 11.9 |
| 4/19/2015 18:41:19 | 44.29 | 41.89 | 301 | 1.93 | 0.22 | 16.5 |
| 4/19/2015 18:41:19 | 44.62 | 42.22 | 301 | 1.93 | 0.22 | 16.5 |
| 4/19/2015 18:41:21 | 44.95 | 42.55 | 354 | 1.93 | 0.22 | 19.4 |
| 4/19/2015 18:41:26 | 45.28 | 42.88 | 116 | 1.93 | 0.22 | 6.4 |
| 4/19/2015 18:41:43 | 45.60 | 43.20 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:41:45 | 45.93 | 43.53 | 141 | 1.93 | 0.22 | 7.7 |
| 4/19/2015 18:41:46 | 46.26 | 43.86 | 283 | 1.93 | 0.22 | 15.5 |
| 4/19/2015 18:41:48 | 46.59 | 44.19 | 296 | 1.93 | 0.22 | 16.2 |
| 4/19/2015 18:41:49 | 46.92 | 44.52 | 232 | 1.93 | 0.22 | 12.7 |
| 4/19/2015 18:41:51 | 47.24 | 44.84 | 227 | 1.93 | 0.22 | 12.4 |
| 4/19/2015 18:42:24 | 47.57 | 45.17 | 122 | 1.93 | 0.22 | 6.7 |
| 4/19/2015 18:42:25 | 47.90 | 45.50 | 232 | 1.93 | 0.22 | 12.7 |
| 4/19/2015 18:42:27 | 48.23 | 45.83 | 272 | 1.93 | 0.22 | 14.9 |
| 4/19/2015 18:42:28 | 48.56 | 46.16 | 270 | 1.93 | 0.22 | 14.8 |
| 4/19/2015 18:42:29 | 48.88 | 46.48 | 288 | 1.93 | 0.22 | 15.7 |
| 4/19/2015 18:42:30 | 49.21 | 46.81 | 337 | 1.93 | 0.22 | 18.4 |
| 4/19/2015 18:42:31 | 49.54 | 47.14 | 369 | 1.93 | 0.22 | 20.2 |
| 4/19/2015 18:42:32 | 49.87 | 47.47 | 363 | 1.93 | 0.22 | 19.9 |
| 4/19/2015 18:42:33 | 50.20 | 47.80 | 378 | 1.93 | 0.22 | 20.6 |
| 4/19/2015 18:42:33 | 50.53 | 48.13 | 410 | 1.93 | 0.22 | 22.4 |
| 4/19/2015 18:42:34 | 50.85 | 48.45 | 480 | 1.93 | 0.22 | 26.2 |
| 4/19/2015 18:42:35 | 51.18 | 48.78 | 487 | 1.93 | 0.22 | 26.6 |
| 4/19/2015 18:42:36 | 51.51 | 49.11 | 472 | 1.93 | 0.22 | 25.8 |
| 4/19/2015 18:42:37 | 51.84 | 49.44 | 428 | 1.93 | 0.22 | 23.4 |
| 4/19/2015 18:42:38 | 52.17 | 49.77 | 350 | 1.93 | 0.22 | 19.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 18:42:39 | 52.49 | 50.09 | 279 | 1.93 | 0.22 | 15.3 |
| 4/19/2015 | 18:42:41 | 52.82 | 50.42 | 269 | 1.93 | 0.22 | 14.7 |
| 4/19/2015 | 18:42:42 | 53.15 | 50.75 | 303 | 1.93 | 0.22 | 16.6 |
| 4/19/2015 | 18:42:43 | 53.48 | 51.08 | 317 | 1.93 | 0.22 | 17.3 |
| 4/19/2015 | 18:42:44 | 53.81 | 51.41 | 295 | 1.93 | 0.22 | 16.1 |
| 4/19/2015 | 18:42:46 | 54.13 | 51.73 | 245 | 1.93 | 0.22 | 13.4 |
| 4/19/2015 | 18:42:48 | 54.46 | 52.06 | 198 | 1.93 | 0.22 | 10.8 |
| 4/19/2015 | 18:42:51 | 54.79 | 52.39 | 125 | 1.93 | 0.22 | 6.8 |
| 4/19/2015 | 18:42:54 | 55.12 | 52.72 | 121 | 1.93 | 0.22 | 6.6 |
| 4/19/2015 | 18:42:56 | 55.45 | 53.05 | 131 | 1.93 | 0.22 | 7.1 |
| 4/19/2015 | 18:42:57 | 55.77 | 53.37 | 211 | 1.93 | 0.22 | 11.5 |
| 4/19/2015 | 18:42:59 | 56.10 | 53.70 | 229 | 1.93 | 0.22 | 12.5 |
| 4/19/2015 | 18:43:01 | 56.43 | 54.03 | 208 | 1.93 | 0.22 | 11.4 |
| 4/19/2015 | 18:43:03 | 56.76 | 54.36 | 146 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 | 18:43:07 | 57.09 | 54.69 | 111 | 1.93 | 0.22 | 6.1 |
| 4/19/2015 | 18:43:11 | 57.41 | 55.01 | 76 | 1.93 | 0.22 | 4.1 |
| 4/19/2015 | 18:43:17 | 57.74 | 55.34 | 75 | 1.93 | 0.22 | 4.1 |
| 4/19/2015 | 18:43:17 | 57.79 | 55.39 | 79 | 1.93 | 0.22 | 4.3 |

## E71 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 18:38:51

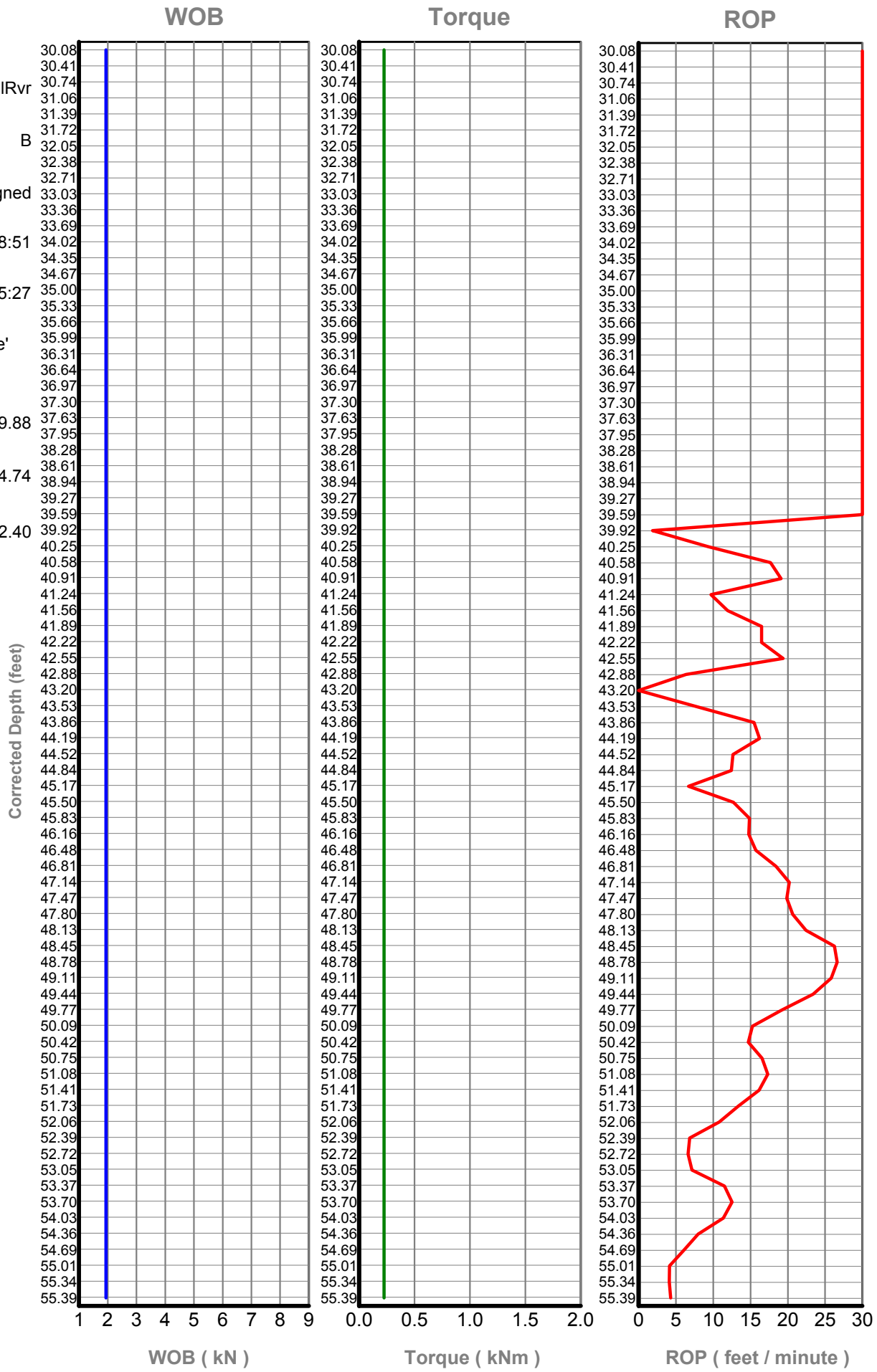
**End Date:**
4/19/2015 18:45:27

**Operator Note:**
'2.4 2.8 b Auto Complete'

**Northing:**
369,279.88

**Easting:**
253,894.74

**Tide (feet):**
2.40



## Hole: E72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:39:51 | 35.76 | 30.26 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 1:39:52 | 36.09 | 30.59 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 1:39:52 | 36.42 | 30.92 | 1,023 | 0.33 | 0.31 | 56.0 |
| 4/22/2015 1:39:52 | 36.75 | 31.25 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 1:39:53 | 37.07 | 31.57 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 1:39:53 | 37.40 | 31.90 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/22/2015 1:39:53 | 37.73 | 32.23 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/22/2015 1:39:54 | 38.06 | 32.56 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/22/2015 1:39:54 | 38.39 | 32.89 | 1,018 | 0.33 | 0.31 | 55.6 |
| 4/22/2015 1:39:54 | 38.71 | 33.21 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:39:55 | 39.04 | 33.54 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:39:55 | 39.37 | 33.87 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/22/2015 1:39:55 | 39.70 | 34.20 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/22/2015 1:39:56 | 40.03 | 34.53 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/22/2015 1:39:56 | 40.35 | 34.85 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/22/2015 1:39:56 | 40.68 | 35.18 | 1,023 | 0.32 | 0.31 | 55.9 |
| 4/22/2015 1:39:57 | 41.01 | 35.51 | 1,023 | 0.32 | 0.31 | 55.9 |
| 4/22/2015 1:39:57 | 41.34 | 35.84 | 1,029 | 0.33 | 0.31 | 56.3 |
| 4/22/2015 1:39:57 | 41.67 | 36.17 | 1,020 | 0.33 | 0.31 | 55.8 |
| 4/22/2015 1:39:58 | 41.99 | 36.49 | 1,020 | 0.33 | 0.31 | 55.8 |
| 4/22/2015 1:39:58 | 42.32 | 36.82 | 1,001 | 0.32 | 0.31 | 54.7 |
| 4/22/2015 1:39:58 | 42.65 | 37.15 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/22/2015 1:39:59 | 42.98 | 37.48 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/22/2015 1:39:59 | 43.31 | 37.81 | 1,015 | 0.33 | 0.31 | 55.5 |
| 4/22/2015 1:39:59 | 43.64 | 38.14 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:00 | 43.96 | 38.46 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:00 | 44.29 | 38.79 | 1,015 | 0.33 | 0.31 | 55.5 |
| 4/22/2015 1:40:01 | 44.62 | 39.12 | 1,018 | 0.33 | 0.32 | 55.6 |
| 4/22/2015 1:40:01 | 44.95 | 39.45 | 1,018 | 0.33 | 0.32 | 55.6 |
| 4/22/2015 1:40:01 | 45.28 | 39.78 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/22/2015 1:40:02 | 45.60 | 40.10 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 1:40:02 | 45.93 | 40.43 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 1:40:02 | 46.26 | 40.76 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:03 | 46.59 | 41.09 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/22/2015 1:40:03 | 46.92 | 41.42 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/22/2015 1:40:03 | 47.24 | 41.74 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 1:40:04 | 47.57 | 42.07 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:04 | 47.90 | 42.40 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:04 | 48.23 | 42.73 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/22/2015 1:40:05 | 48.56 | 43.06 | 1,014 | 0.32 | 0.31 | 55.5 |
| 4/22/2015 1:40:05 | 48.88 | 43.38 | 1,014 | 0.32 | 0.31 | 55.5 |
| 4/22/2015 1:40:05 | 49.21 | 43.71 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 1:40:06 | 49.54 | 44.04 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/22/2015 1:40:06 | 49.87 | 44.37 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/22/2015 1:40:06 | 50.20 | 44.70 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/22/2015 1:40:07 | 50.53 | 45.03 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 1:40:07 | 50.85 | 45.35 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 1:40:07 | 51.18 | 45.68 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 1:40:08 | 51.51 | 46.01 | 1,017 | 0.32 | 0.31 | 55.6 |
| 4/22/2015 1:40:08 | 51.84 | 46.34 | 1,017 | 0.32 | 0.31 | 55.6 |
| 4/22/2015 1:40:08 | 52.17 | 46.67 | 1,020 | 0.33 | 0.31 | 55.8 |
| 4/22/2015 1:40:09 | 52.49 | 46.99 | 1,020 | 0.33 | 0.31 | 55.8 |
| 4/22/2015 1:40:09 | 52.82 | 47.32 | 1,020 | 0.33 | 0.31 | 55.8 |
| 4/22/2015 1:40:09 | 53.15 | 47.65 | 1,014 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 1:40:10 | 53.48 | 47.98 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 1:40:11 | 53.81 | 48.31 | 1,006 | 0.31 | 0.37 | 55.0 |
| 4/22/2015 1:40:23 | 54.13 | 48.63 | 0 | 3.33 | 0.38 | 0.0 |
| 4/22/2015 1:40:30 | 54.46 | 48.96 | 6 | 2.83 | 0.35 | 0.3 |
| 4/22/2015 1:40:32 | 54.79 | 49.29 | 189 | 4.27 | 0.38 | 10.3 |
| 4/22/2015 1:40:34 | 55.12 | 49.62 | 170 | 3.71 | 0.38 | 9.3 |
| 4/22/2015 1:40:37 | 55.45 | 49.95 | 137 | 4.28 | 0.39 | 7.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:40:40 | 55.77 | 50.27 | 113 | 5.01 | 0.38 | 6.2 |
| 4/22/2015 | 1:40:46 | 56.10 | 50.60 | 95 | 4.87 | 0.39 | 5.2 |
| 4/22/2015 | 1:40:47 | 56.43 | 50.93 | 184 | 2.18 | 0.37 | 10.1 |
| 4/22/2015 | 1:40:48 | 56.76 | 51.26 | 252 | 2.71 | 0.37 | 13.8 |
| 4/22/2015 | 1:40:49 | 57.09 | 51.59 | 280 | 2.38 | 0.37 | 15.3 |
| 4/22/2015 | 1:40:50 | 57.41 | 51.91 | 280 | 2.28 | 0.37 | 15.3 |
| 4/22/2015 | 1:40:51 | 57.74 | 52.24 | 324 | 2.18 | 0.36 | 17.7 |
| 4/22/2015 | 1:40:52 | 58.07 | 52.57 | 385 | 2.15 | 0.36 | 21.0 |
| 4/22/2015 | 1:40:52 | 58.40 | 52.90 | 417 | 2.10 | 0.36 | 22.8 |
| 4/22/2015 | 1:40:53 | 58.73 | 53.23 | 510 | 2.14 | 0.36 | 27.9 |
| 4/22/2015 | 1:40:54 | 59.06 | 53.56 | 510 | 2.19 | 0.36 | 27.9 |
| 4/22/2015 | 1:40:54 | 59.38 | 53.88 | 525 | 2.34 | 0.37 | 28.7 |
| 4/22/2015 | 1:40:55 | 59.71 | 54.21 | 513 | 2.36 | 0.37 | 28.0 |
| 4/22/2015 | 1:40:56 | 60.04 | 54.54 | 447 | 2.39 | 0.37 | 24.4 |
| 4/22/2015 | 1:40:57 | 60.30 | 54.80 | 414 | 2.41 | 0.38 | 22.7 |

## E72 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:37:05

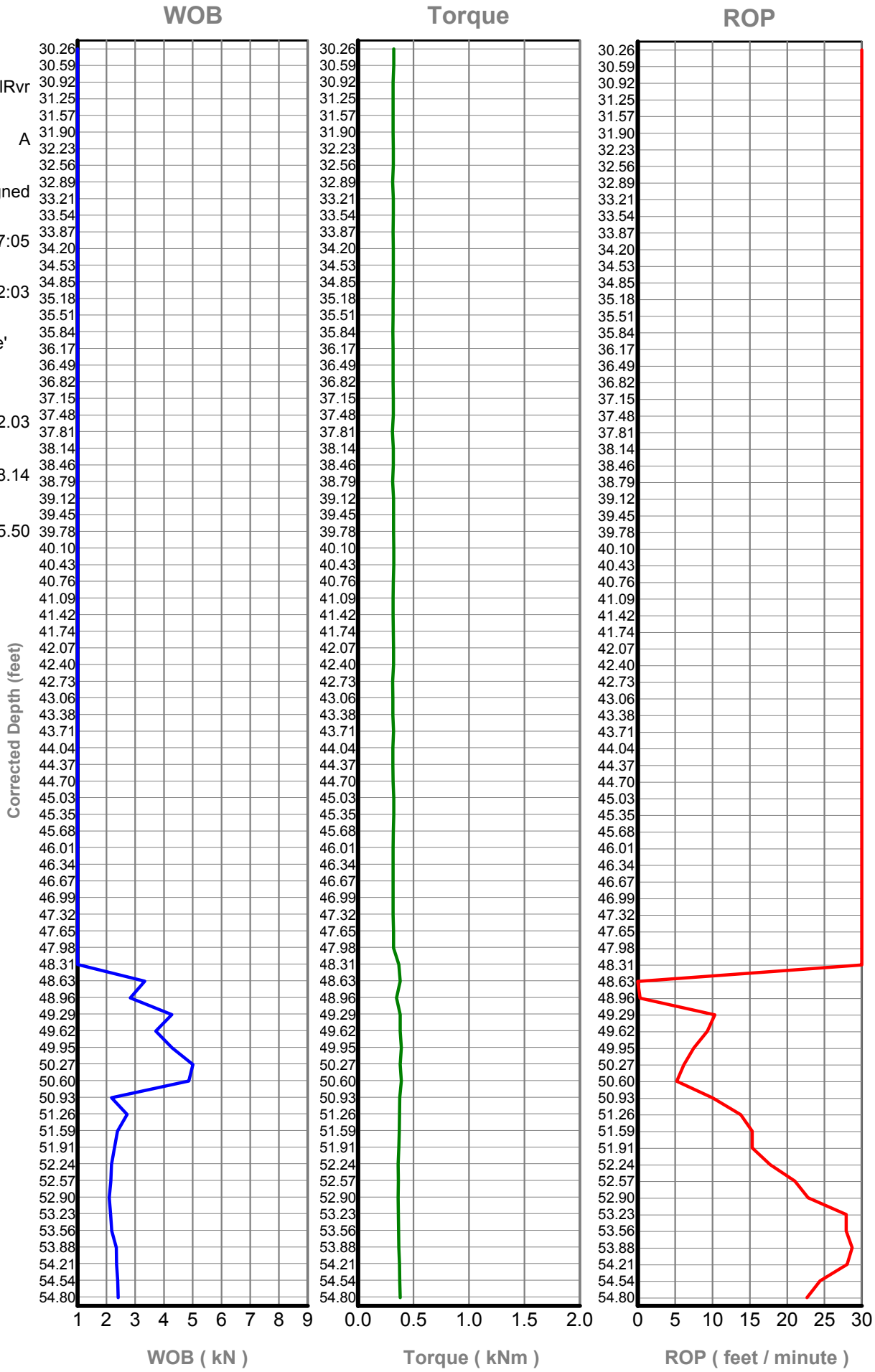
**End Date:**
4/22/2015 1:42:03

**Operator Note:**
'5.5 5.1 b Auto Complete'

**Northing:**
368,182.03

**Easting:**
252,658.14

**Tide (feet):**
5.50



## Hole: E73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:31:35 | 35.43 | 30.03 | 1,407 | 3.25 | 0.16 | 76.9 |
| 4/22/2015 1:31:35 | 35.76 | 30.36 | 1,407 | 3.25 | 0.16 | 76.9 |
| 4/22/2015 1:31:44 | 36.09 | 30.69 | 13 | 3.25 | 0.15 | 0.7 |
| 4/22/2015 1:31:44 | 36.42 | 31.02 | 13 | 3.25 | 0.15 | 0.7 |
| 4/22/2015 1:31:44 | 36.75 | 31.35 | 245 | 3.26 | 0.15 | 13.4 |
| 4/22/2015 1:31:44 | 37.07 | 31.67 | 245 | 3.26 | 0.15 | 13.4 |
| 4/22/2015 1:31:45 | 37.40 | 32.00 | 542 | 3.27 | 0.16 | 29.6 |
| 4/22/2015 1:31:45 | 37.73 | 32.33 | 542 | 3.27 | 0.16 | 29.6 |
| 4/22/2015 1:31:45 | 38.06 | 32.66 | 814 | 3.24 | 0.15 | 44.5 |
| 4/22/2015 1:31:45 | 38.39 | 32.99 | 814 | 3.24 | 0.15 | 44.5 |
| 4/22/2015 1:31:46 | 38.71 | 33.31 | 1,091 | 3.23 | 0.16 | 59.7 |
| 4/22/2015 1:31:46 | 39.04 | 33.64 | 1,091 | 3.23 | 0.16 | 59.7 |
| 4/22/2015 1:31:46 | 39.37 | 33.97 | 1,366 | 3.24 | 0.16 | 74.7 |
| 4/22/2015 1:31:46 | 39.70 | 34.30 | 1,366 | 3.24 | 0.16 | 74.7 |
| 4/22/2015 1:31:47 | 40.03 | 34.63 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:31:47 | 40.35 | 34.95 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:31:48 | 40.68 | 35.28 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:31:48 | 41.01 | 35.61 | 1,432 | 3.22 | 0.15 | 78.3 |
| 4/22/2015 1:31:50 | 41.34 | 35.94 | 543 | 3.26 | 0.14 | 29.7 |
| 4/22/2015 1:31:51 | 41.67 | 36.27 | 543 | 3.26 | 0.14 | 29.7 |
| 4/22/2015 1:31:50 | 41.99 | 36.59 | 457 | 3.22 | 0.15 | 25.0 |
| 4/22/2015 1:31:51 | 42.32 | 36.92 | 457 | 3.22 | 0.15 | 25.0 |
| 4/22/2015 1:31:51 | 42.65 | 37.25 | 490 | 3.24 | 0.16 | 26.8 |
| 4/22/2015 1:31:51 | 42.98 | 37.58 | 490 | 3.24 | 0.16 | 26.8 |
| 4/22/2015 1:31:51 | 43.31 | 37.91 | 773 | 3.23 | 0.16 | 42.2 |
| 4/22/2015 1:31:52 | 43.64 | 38.24 | 773 | 3.23 | 0.16 | 42.2 |
| 4/22/2015 1:31:52 | 43.96 | 38.56 | 1,046 | 3.24 | 0.16 | 57.2 |
| 4/22/2015 1:31:52 | 44.29 | 38.89 | 1,046 | 3.24 | 0.16 | 57.2 |
| 4/22/2015 1:31:52 | 44.62 | 39.22 | 1,314 | 3.26 | 0.16 | 71.9 |
| 4/22/2015 1:31:53 | 44.95 | 39.55 | 1,314 | 3.26 | 0.16 | 71.9 |
| 4/22/2015 1:31:53 | 45.28 | 39.88 | 1,375 | 3.26 | 0.16 | 75.2 |
| 4/22/2015 1:31:53 | 45.60 | 40.20 | 1,375 | 3.26 | 0.16 | 75.2 |
| 4/22/2015 1:31:53 | 45.93 | 40.53 | 1,375 | 3.22 | 0.16 | 75.2 |
| 4/22/2015 1:31:54 | 46.26 | 40.86 | 1,375 | 3.22 | 0.16 | 75.2 |
| 4/22/2015 1:31:54 | 46.59 | 41.19 | 1,389 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 1:31:54 | 46.92 | 41.52 | 1,389 | 3.22 | 0.15 | 76.0 |
| 4/22/2015 1:31:55 | 47.24 | 41.84 | 1,380 | 3.23 | 0.15 | 75.5 |
| 4/22/2015 1:31:55 | 47.57 | 42.17 | 1,380 | 3.23 | 0.15 | 75.5 |
| 4/22/2015 1:31:55 | 47.90 | 42.50 | 1,387 | 3.23 | 0.15 | 75.8 |
| 4/22/2015 1:31:55 | 48.23 | 42.83 | 1,387 | 3.23 | 0.15 | 75.8 |
| 4/22/2015 1:31:56 | 48.56 | 43.16 | 1,403 | 3.24 | 0.15 | 76.7 |
| 4/22/2015 1:31:56 | 48.88 | 43.48 | 1,403 | 3.24 | 0.15 | 76.7 |
| 4/22/2015 1:31:56 | 49.21 | 43.81 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 1:31:56 | 49.54 | 44.14 | 1,405 | 3.22 | 0.15 | 76.8 |
| 4/22/2015 1:31:57 | 49.87 | 44.47 | 1,391 | 3.18 | 0.15 | 76.0 |
| 4/22/2015 1:31:57 | 50.20 | 44.80 | 1,391 | 3.18 | 0.15 | 76.0 |
| 4/22/2015 1:31:57 | 50.53 | 45.13 | 1,405 | 3.24 | 0.15 | 76.8 |
| 4/22/2015 1:31:57 | 50.85 | 45.45 | 1,405 | 3.24 | 0.15 | 76.8 |
| 4/22/2015 1:31:58 | 51.18 | 45.78 | 1,399 | 3.25 | 0.15 | 76.5 |
| 4/22/2015 1:31:58 | 51.51 | 46.11 | 1,399 | 3.25 | 0.15 | 76.5 |
| 4/22/2015 1:31:58 | 51.84 | 46.44 | 1,399 | 2.77 | 0.15 | 76.5 |
| 4/22/2015 1:31:59 | 52.17 | 46.77 | 1,399 | 2.77 | 0.15 | 76.5 |
| 4/22/2015 1:32:33 | 52.49 | 47.09 | 0 | 1.59 | 1.35 | 0.0 |
| 4/22/2015 1:32:36 | 52.82 | 47.42 | 93 | 1.92 | 1.17 | 5.1 |
| 4/22/2015 1:32:40 | 53.15 | 47.75 | 52 | 2.02 | 1.40 | 2.8 |
| 4/22/2015 1:32:41 | 53.48 | 48.08 | 122 | 2.12 | 1.10 | 6.7 |
| 4/22/2015 1:32:46 | 53.81 | 48.41 | 25 | 2.07 | 1.29 | 1.4 |
| 4/22/2015 1:33:05 | 54.13 | 48.73 | 89 | 1.89 | 1.52 | 4.8 |
| 4/22/2015 1:33:07 | 54.46 | 49.06 | 174 | 1.87 | 1.51 | 9.5 |
| 4/22/2015 1:34:00 | 54.79 | 49.39 | 73 | 1.97 | 1.13 | 4.0 |
| 4/22/2015 1:34:13 | 55.12 | 49.72 | 40 | 1.82 | 1.18 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:34:15 | 55.45 | 50.05 | 87 | 1.81 | 1.22 | 4.7 |
| 4/22/2015 | 1:34:16 | 55.77 | 50.37 | 169 | 1.91 | 1.31 | 9.2 |
| 4/22/2015 | 1:34:18 | 56.10 | 50.70 | 200 | 1.81 | 1.19 | 11.0 |
| 4/22/2015 | 1:34:29 | 56.43 | 51.03 | 35 | 1.82 | 1.20 | 1.9 |
| 4/22/2015 | 1:34:30 | 56.76 | 51.36 | 147 | 1.89 | 1.05 | 8.0 |
| 4/22/2015 | 1:34:31 | 57.09 | 51.69 | 204 | 1.83 | 1.06 | 11.1 |
| 4/22/2015 | 1:34:33 | 57.41 | 52.01 | 282 | 1.86 | 1.07 | 15.4 |
| 4/22/2015 | 1:34:34 | 57.74 | 52.34 | 292 | 1.68 | 0.98 | 16.0 |
| 4/22/2015 | 1:34:39 | 58.07 | 52.67 | 0 | 3.25 | 0.89 | 0.0 |
| 4/22/2015 | 1:34:40 | 58.40 | 53.00 | 22 | 3.33 | 0.99 | 1.2 |
| 4/22/2015 | 1:34:40 | 58.73 | 53.33 | 203 | 3.30 | 0.98 | 11.1 |
| 4/22/2015 | 1:34:41 | 59.06 | 53.66 | 203 | 3.30 | 0.98 | 11.1 |
| 4/22/2015 | 1:34:41 | 59.38 | 53.98 | 420 | 3.29 | 0.98 | 23.0 |
| 4/22/2015 | 1:34:43 | 59.71 | 54.31 | 530 | 1.53 | 0.92 | 29.0 |
| 4/22/2015 | 1:34:45 | 60.04 | 54.64 | 135 | 2.08 | 1.01 | 7.4 |
| 4/22/2015 | 1:34:47 | 60.21 | 54.81 | 135 | 1.61 | 1.03 | 7.4 |

## E73 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:30:21

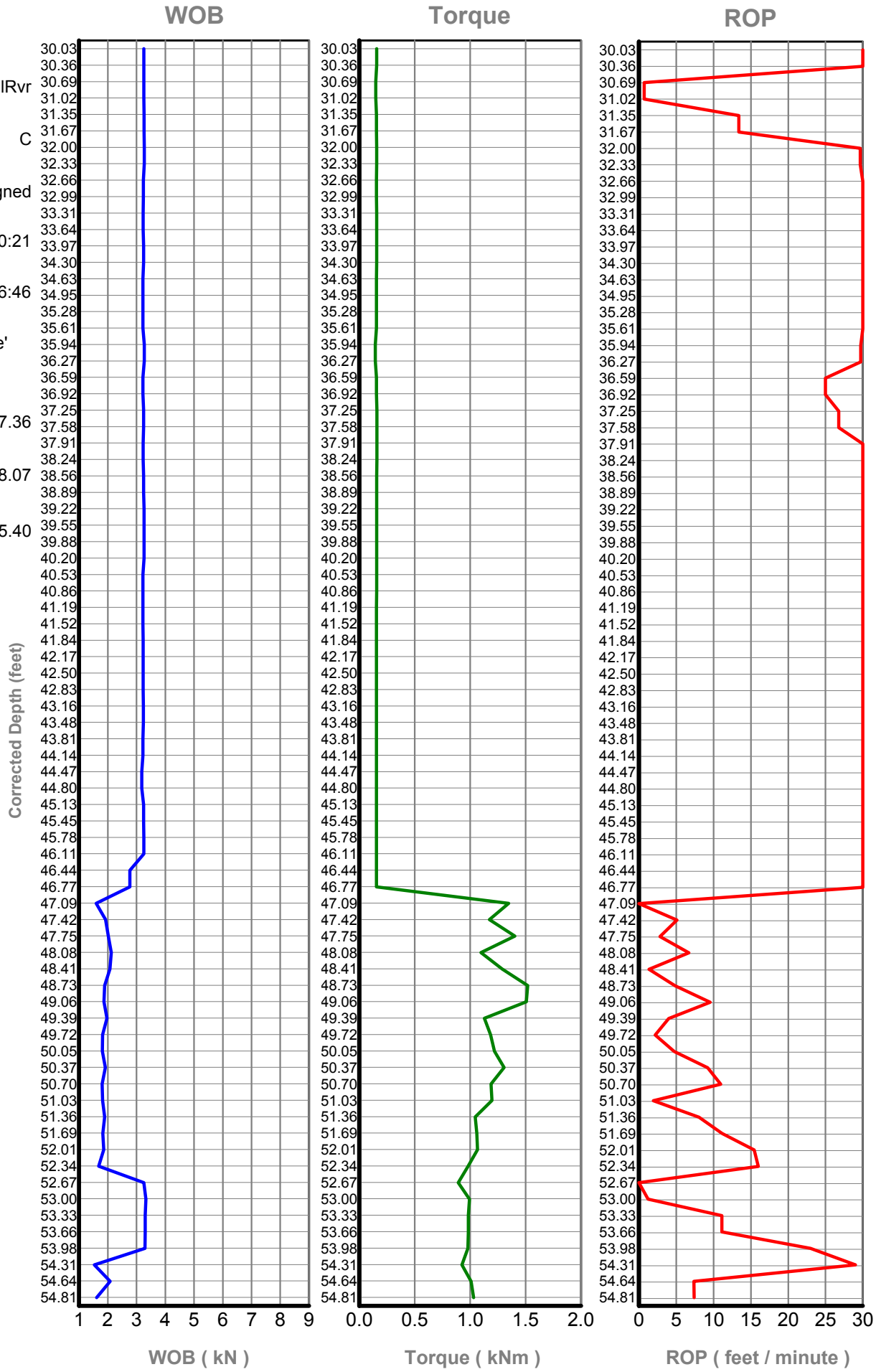
**End Date:**
4/22/2015 1:36:46

**Operator Note:**
'5.4 5.1 c Auto Complete'

**Northing:**
368,227.36

**Easting:**
252,718.07

**Tide (feet):**
5.40



## Hole: E74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:41:39 | 31.82 | 30.32 | 820 | 0.39 | 0.34 | 44.9 |
| 4/21/2015 23:41:39 | 32.15 | 30.65 | 820 | 0.39 | 0.34 | 44.9 |
| 4/21/2015 23:41:39 | 32.48 | 30.98 | 825 | 0.40 | 0.34 | 45.1 |
| 4/21/2015 23:41:40 | 32.81 | 31.31 | 822 | 0.39 | 0.34 | 45.0 |
| 4/21/2015 23:41:41 | 33.14 | 31.64 | 839 | 0.39 | 0.34 | 45.9 |
| 4/21/2015 23:41:41 | 33.46 | 31.96 | 808 | 0.39 | 0.34 | 44.2 |
| 4/21/2015 23:41:42 | 33.79 | 32.29 | 808 | 0.39 | 0.34 | 44.2 |
| 4/21/2015 23:41:42 | 34.12 | 32.62 | 844 | 0.39 | 0.33 | 46.1 |
| 4/21/2015 23:41:42 | 34.45 | 32.95 | 810 | 0.39 | 0.34 | 44.3 |
| 4/21/2015 23:41:43 | 34.78 | 33.28 | 815 | 0.39 | 0.34 | 44.6 |
| 4/21/2015 23:41:43 | 35.11 | 33.61 | 815 | 0.39 | 0.34 | 44.6 |
| 4/21/2015 23:41:44 | 35.43 | 33.93 | 824 | 0.39 | 0.34 | 45.1 |
| 4/21/2015 23:41:44 | 35.76 | 34.26 | 824 | 0.39 | 0.34 | 45.1 |
| 4/21/2015 23:41:44 | 36.09 | 34.59 | 841 | 0.39 | 0.34 | 46.0 |
| 4/21/2015 23:41:45 | 36.42 | 34.92 | 813 | 0.39 | 0.34 | 44.4 |
| 4/21/2015 23:41:45 | 36.75 | 35.25 | 836 | 0.36 | 0.34 | 45.7 |
| 4/21/2015 23:41:46 | 37.07 | 35.57 | 834 | 0.41 | 0.34 | 45.6 |
| 4/21/2015 23:41:46 | 37.40 | 35.90 | 834 | 0.40 | 0.34 | 45.6 |
| 4/21/2015 23:41:47 | 37.73 | 36.23 | 834 | 0.40 | 0.34 | 45.6 |
| 4/21/2015 23:41:47 | 38.06 | 36.56 | 824 | 0.37 | 0.33 | 45.0 |
| 4/21/2015 23:41:47 | 38.39 | 36.89 | 824 | 0.39 | 0.34 | 45.0 |
| 4/21/2015 23:41:48 | 38.71 | 37.21 | 837 | 0.40 | 0.34 | 45.7 |
| 4/21/2015 23:41:48 | 39.04 | 37.54 | 862 | 0.40 | 0.34 | 47.1 |
| 4/21/2015 23:41:49 | 39.37 | 37.87 | 862 | 0.40 | 0.34 | 47.1 |
| 4/21/2015 23:41:49 | 39.70 | 38.20 | 855 | 0.39 | 0.34 | 46.7 |
| 4/21/2015 23:41:49 | 40.03 | 38.53 | 836 | 0.34 | 0.34 | 45.7 |
| 4/21/2015 23:41:50 | 40.35 | 38.85 | 836 | 0.39 | 0.34 | 45.7 |
| 4/21/2015 23:41:50 | 40.68 | 39.18 | 848 | 0.39 | 0.34 | 46.4 |
| 4/21/2015 23:41:51 | 41.01 | 39.51 | 848 | 0.39 | 0.34 | 46.4 |
| 4/21/2015 23:41:51 | 41.34 | 39.84 | 844 | 0.40 | 0.34 | 46.1 |
| 4/21/2015 23:41:52 | 41.67 | 40.17 | 822 | 0.41 | 0.34 | 45.0 |
| 4/21/2015 23:41:52 | 41.99 | 40.49 | 822 | 0.40 | 0.34 | 45.0 |
| 4/21/2015 23:41:53 | 42.32 | 40.82 | 836 | 0.39 | 0.34 | 45.7 |
| 4/21/2015 23:41:53 | 42.65 | 41.15 | 836 | 0.39 | 0.34 | 45.7 |
| 4/21/2015 23:41:53 | 42.98 | 41.48 | 849 | 0.40 | 0.34 | 46.4 |
| 4/21/2015 23:41:54 | 43.31 | 41.81 | 836 | 0.39 | 0.34 | 45.7 |
| 4/21/2015 23:41:54 | 43.64 | 42.14 | 803 | 0.39 | 0.34 | 43.9 |
| 4/21/2015 23:41:55 | 43.96 | 42.46 | 803 | 0.40 | 0.34 | 43.9 |
| 4/21/2015 23:41:55 | 44.29 | 42.79 | 824 | 0.39 | 0.34 | 45.1 |
| 4/21/2015 23:41:56 | 44.62 | 43.12 | 824 | 0.39 | 0.34 | 45.1 |
| 4/21/2015 23:41:56 | 44.95 | 43.45 | 824 | 0.39 | 0.34 | 45.1 |
| 4/21/2015 23:41:56 | 45.28 | 43.78 | 812 | 0.37 | 0.34 | 44.4 |
| 4/21/2015 23:41:57 | 45.60 | 44.10 | 819 | 0.40 | 0.34 | 44.8 |
| 4/21/2015 23:41:57 | 45.93 | 44.43 | 819 | 0.39 | 0.34 | 44.8 |
| 4/21/2015 23:41:58 | 46.26 | 44.76 | 818 | 0.39 | 0.34 | 44.7 |
| 4/21/2015 23:41:58 | 46.59 | 45.09 | 818 | 0.39 | 0.34 | 44.7 |
| 4/21/2015 23:41:58 | 46.92 | 45.42 | 818 | 0.39 | 0.34 | 44.7 |
| 4/21/2015 23:41:59 | 47.24 | 45.74 | 842 | 0.39 | 0.34 | 46.0 |
| 4/21/2015 23:41:59 | 47.57 | 46.07 | 842 | 0.39 | 0.34 | 46.0 |
| 4/21/2015 23:42:00 | 47.90 | 46.40 | 850 | 0.38 | 0.36 | 46.5 |
| 4/21/2015 23:42:00 | 48.23 | 46.73 | 790 | 0.36 | 0.40 | 43.2 |
| 4/21/2015 23:42:24 | 48.56 | 47.06 | 30 | 4.86 | 0.38 | 1.7 |
| 4/21/2015 23:42:25 | 48.88 | 47.38 | 92 | 3.51 | 0.37 | 5.0 |
| 4/21/2015 23:42:28 | 49.21 | 47.71 | 115 | 3.22 | 0.37 | 6.3 |
| 4/21/2015 23:42:29 | 49.54 | 48.04 | 152 | 3.18 | 0.39 | 8.3 |
| 4/21/2015 23:42:32 | 49.87 | 48.37 | 145 | 3.91 | 0.40 | 7.9 |
| 4/21/2015 23:42:38 | 50.20 | 48.70 | 66 | 3.94 | 0.40 | 3.6 |
| 4/21/2015 23:42:43 | 50.53 | 49.03 | 71 | 3.98 | 0.41 | 3.9 |
| 4/21/2015 23:42:49 | 50.85 | 49.35 | 61 | 4.29 | 0.40 | 3.3 |
| 4/21/2015 23:42:55 | 51.18 | 49.68 | 71 | 3.93 | 0.40 | 3.9 |
| 4/21/2015 23:43:00 | 51.51 | 50.01 | 57 | 4.41 | 0.40 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 23:43:06 | 51.84 | 50.34 | 58 | 4.06 | 0.40 | 3.2 |
| 4/21/2015 | 23:43:07 | 51.90 | 50.40 | 58 | 5.01 | 0.42 | 3.2 |

## E74 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:23:13

**End Date:**
4/21/2015 23:44:22

**Operator Note:**
'1.5 1.9 b Auto Complete'

**Northing:**
368,282.68

**Easting:**
252,786.03

**Tide (feet):**
1.50



## Hole: E75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:46:22 | 32.48 | 30.08 | 1,495 | 3.24 | 0.15 | 81.7 |
| 4/21/2015 23:46:22 | 32.81 | 30.41 | 1,477 | 3.18 | 0.15 | 80.8 |
| 4/21/2015 23:46:23 | 33.14 | 30.74 | 1,477 | 3.18 | 0.15 | 80.8 |
| 4/21/2015 23:46:23 | 33.46 | 31.06 | 1,489 | 3.24 | 0.15 | 81.4 |
| 4/21/2015 23:46:23 | 33.79 | 31.39 | 1,489 | 3.24 | 0.15 | 81.4 |
| 4/21/2015 23:46:23 | 34.12 | 31.72 | 1,477 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:46:24 | 34.45 | 32.05 | 1,477 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:46:24 | 34.78 | 32.38 | 1,492 | 3.20 | 0.15 | 81.6 |
| 4/21/2015 23:46:24 | 35.11 | 32.71 | 1,492 | 3.20 | 0.15 | 81.6 |
| 4/21/2015 23:46:24 | 35.43 | 33.03 | 1,486 | 3.22 | 0.15 | 81.3 |
| 4/21/2015 23:46:25 | 35.76 | 33.36 | 1,486 | 3.22 | 0.15 | 81.3 |
| 4/21/2015 23:46:25 | 36.09 | 33.69 | 1,486 | 3.22 | 0.15 | 81.3 |
| 4/21/2015 23:46:25 | 36.42 | 34.02 | 1,495 | 3.24 | 0.15 | 81.8 |
| 4/21/2015 23:46:25 | 36.75 | 34.35 | 1,495 | 3.24 | 0.15 | 81.8 |
| 4/21/2015 23:46:25 | 37.07 | 34.67 | 1,483 | 3.21 | 0.15 | 81.1 |
| 4/21/2015 23:46:26 | 37.40 | 35.00 | 1,483 | 3.21 | 0.15 | 81.1 |
| 4/21/2015 23:46:26 | 37.73 | 35.33 | 1,489 | 3.22 | 0.15 | 81.4 |
| 4/21/2015 23:46:26 | 38.06 | 35.66 | 1,489 | 3.22 | 0.15 | 81.4 |
| 4/21/2015 23:46:26 | 38.39 | 35.99 | 1,486 | 3.19 | 0.15 | 81.2 |
| 4/21/2015 23:46:27 | 38.71 | 36.31 | 1,486 | 3.19 | 0.15 | 81.2 |
| 4/21/2015 23:46:27 | 39.04 | 36.64 | 1,483 | 3.24 | 0.15 | 81.1 |
| 4/21/2015 23:46:27 | 39.37 | 36.97 | 1,483 | 3.24 | 0.15 | 81.1 |
| 4/21/2015 23:46:27 | 39.70 | 37.30 | 1,474 | 3.21 | 0.15 | 80.6 |
| 4/21/2015 23:46:28 | 40.03 | 37.63 | 1,474 | 3.21 | 0.15 | 80.6 |
| 4/21/2015 23:46:28 | 40.35 | 37.95 | 1,474 | 3.21 | 0.15 | 80.6 |
| 4/21/2015 23:46:28 | 40.68 | 38.28 | 1,492 | 3.21 | 0.15 | 81.6 |
| 4/21/2015 23:46:28 | 41.01 | 38.61 | 1,492 | 3.21 | 0.15 | 81.6 |
| 4/21/2015 23:46:29 | 41.34 | 38.94 | 1,486 | 3.20 | 0.15 | 81.3 |
| 4/21/2015 23:46:29 | 41.67 | 39.27 | 1,486 | 3.20 | 0.15 | 81.3 |
| 4/21/2015 23:46:29 | 41.99 | 39.59 | 1,486 | 3.20 | 0.16 | 81.3 |
| 4/21/2015 23:46:29 | 42.32 | 39.92 | 1,486 | 3.20 | 0.16 | 81.3 |
| 4/21/2015 23:46:30 | 42.65 | 40.25 | 1,486 | 3.24 | 0.15 | 81.3 |
| 4/21/2015 23:46:30 | 42.98 | 40.58 | 1,486 | 3.24 | 0.15 | 81.3 |
| 4/21/2015 23:46:30 | 43.31 | 40.91 | 1,498 | 3.21 | 0.13 | 81.9 |
| 4/21/2015 23:46:30 | 43.64 | 41.24 | 1,498 | 3.21 | 0.13 | 81.9 |
| 4/21/2015 23:46:31 | 43.96 | 41.56 | 1,480 | 3.22 | 0.15 | 80.9 |
| 4/21/2015 23:46:31 | 44.29 | 41.89 | 1,480 | 3.22 | 0.15 | 80.9 |
| 4/21/2015 23:46:31 | 44.62 | 42.22 | 1,483 | 3.23 | 0.15 | 81.1 |
| 4/21/2015 23:46:31 | 44.95 | 42.55 | 1,483 | 3.23 | 0.15 | 81.1 |
| 4/21/2015 23:46:32 | 45.28 | 42.88 | 1,483 | 3.23 | 0.15 | 81.1 |
| 4/21/2015 23:46:32 | 45.60 | 43.20 | 1,477 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:46:32 | 45.93 | 43.53 | 1,477 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:46:32 | 46.26 | 43.86 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/21/2015 23:46:32 | 46.59 | 44.19 | 1,442 | 3.20 | 0.15 | 78.9 |
| 4/21/2015 23:46:33 | 46.92 | 44.52 | 1,442 | 3.25 | 0.15 | 78.9 |
| 4/21/2015 23:46:34 | 47.24 | 44.84 | 1,442 | 3.25 | 0.15 | 78.9 |
| 4/21/2015 23:47:00 | 47.57 | 45.17 | 0 | 3.23 | 0.92 | 0.0 |
| 4/21/2015 23:47:00 | 47.90 | 45.50 | 140 | 2.01 | 1.25 | 7.7 |
| 4/21/2015 23:47:10 | 48.23 | 45.83 | 2 | 3.29 | 0.98 | 0.1 |
| 4/21/2015 23:47:21 | 48.56 | 46.16 | 0 | 2.90 | 1.07 | 0.0 |
| 4/21/2015 23:47:24 | 48.88 | 46.48 | 3 | 3.21 | 0.96 | 0.2 |
| 4/21/2015 23:47:32 | 49.21 | 46.81 | 0 | 2.59 | 1.39 | 0.0 |
| 4/21/2015 23:47:36 | 49.54 | 47.14 | 12 | 2.04 | 1.48 | 0.6 |
| 4/21/2015 23:47:40 | 49.87 | 47.47 | 0 | 3.30 | 1.23 | 0.0 |
| 4/21/2015 23:47:45 | 50.20 | 47.80 | 0 | 3.36 | 1.05 | 0.0 |
| 4/21/2015 23:47:50 | 50.53 | 48.13 | 70 | 1.93 | 1.18 | 3.8 |
| 4/21/2015 23:47:53 | 50.85 | 48.45 | 101 | 2.02 | 1.14 | 5.5 |
| 4/21/2015 23:48:01 | 51.18 | 48.78 | 50 | 2.06 | 1.23 | 2.7 |
| 4/21/2015 23:48:06 | 51.51 | 49.11 | 65 | 2.02 | 1.14 | 3.5 |
| 4/21/2015 23:48:14 | 51.84 | 49.44 | 44 | 2.12 | 1.22 | 2.4 |
| 4/21/2015 23:48:15 | 51.91 | 49.51 | 44 | 2.06 | 1.14 | 2.4 |

## E75 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:45:28

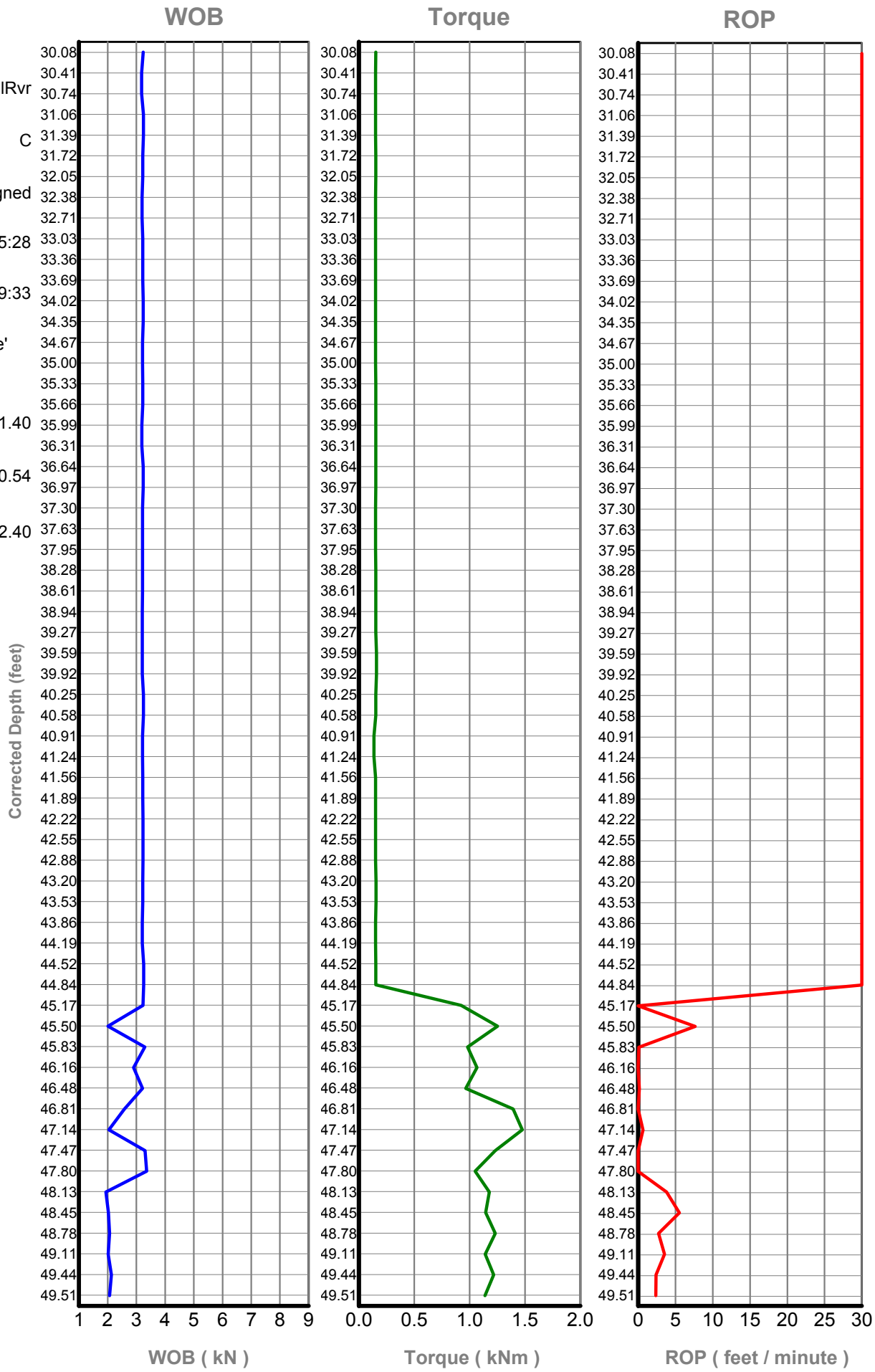
**End Date:**
4/21/2015 23:49:33

**Operator Note:**
'2.4 2.1 c Auto Complete'

**Northing:**
368,321.40

**Easting:**
252,830.54

**Tide (feet):**
2.40



## Hole: E76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:39:58 | 32.15 | 30.25 | 1,445 | 3.22 | 0.15 | 79.0 |
| 4/21/2015 23:39:58 | 32.48 | 30.58 | 1,437 | 3.24 | 0.15 | 78.6 |
| 4/21/2015 23:39:59 | 32.81 | 30.91 | 1,437 | 3.24 | 0.15 | 78.6 |
| 4/21/2015 23:39:59 | 33.14 | 31.24 | 1,431 | 3.22 | 0.16 | 78.3 |
| 4/21/2015 23:39:59 | 33.46 | 31.56 | 1,431 | 3.22 | 0.16 | 78.3 |
| 4/21/2015 23:39:59 | 33.79 | 31.89 | 1,448 | 3.22 | 0.15 | 79.2 |
| 4/21/2015 23:40:00 | 34.12 | 32.22 | 1,448 | 3.22 | 0.15 | 79.2 |
| 4/21/2015 23:40:00 | 34.45 | 32.55 | 1,437 | 3.22 | 0.15 | 78.6 |
| 4/21/2015 23:40:00 | 34.78 | 32.88 | 1,437 | 3.22 | 0.15 | 78.6 |
| 4/21/2015 23:40:00 | 35.11 | 33.21 | 1,437 | 3.21 | 0.15 | 78.6 |
| 4/21/2015 23:40:01 | 35.43 | 33.53 | 1,437 | 3.21 | 0.15 | 78.6 |
| 4/21/2015 23:40:01 | 35.76 | 33.86 | 1,421 | 3.22 | 0.15 | 77.7 |
| 4/21/2015 23:40:01 | 36.09 | 34.19 | 1,421 | 3.22 | 0.15 | 77.7 |
| 4/21/2015 23:40:01 | 36.42 | 34.52 | 1,442 | 3.22 | 0.15 | 78.8 |
| 4/21/2015 23:40:02 | 36.75 | 34.85 | 1,442 | 3.22 | 0.15 | 78.8 |
| 4/21/2015 23:40:02 | 37.07 | 35.17 | 1,439 | 3.22 | 0.15 | 78.7 |
| 4/21/2015 23:40:02 | 37.40 | 35.50 | 1,439 | 3.22 | 0.15 | 78.7 |
| 4/21/2015 23:40:03 | 37.73 | 35.83 | 1,431 | 3.22 | 0.15 | 78.2 |
| 4/21/2015 23:40:03 | 38.06 | 36.16 | 1,431 | 3.22 | 0.15 | 78.2 |
| 4/21/2015 23:40:03 | 38.39 | 36.49 | 1,431 | 3.22 | 0.15 | 78.2 |
| 4/21/2015 23:40:03 | 38.71 | 36.81 | 1,415 | 3.23 | 0.15 | 77.4 |
| 4/21/2015 23:40:03 | 39.04 | 37.14 | 1,415 | 3.23 | 0.15 | 77.4 |
| 4/21/2015 23:40:04 | 39.37 | 37.47 | 1,444 | 3.22 | 0.15 | 79.0 |
| 4/21/2015 23:40:04 | 39.70 | 37.80 | 1,444 | 3.22 | 0.15 | 79.0 |
| 4/21/2015 23:40:04 | 40.03 | 38.13 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/21/2015 23:40:04 | 40.35 | 38.45 | 1,438 | 3.23 | 0.15 | 78.6 |
| 4/21/2015 23:40:05 | 40.68 | 38.78 | 1,430 | 3.21 | 0.15 | 78.2 |
| 4/21/2015 23:40:05 | 41.01 | 39.11 | 1,430 | 3.21 | 0.15 | 78.2 |
| 4/21/2015 23:40:05 | 41.34 | 39.44 | 1,415 | 3.22 | 0.15 | 77.4 |
| 4/21/2015 23:40:05 | 41.67 | 39.77 | 1,415 | 3.22 | 0.15 | 77.4 |
| 4/21/2015 23:40:06 | 41.99 | 40.09 | 1,415 | 3.22 | 0.15 | 77.4 |
| 4/21/2015 23:40:06 | 42.32 | 40.42 | 1,415 | 3.22 | 0.15 | 77.4 |
| 4/21/2015 23:40:06 | 42.65 | 40.75 | 1,421 | 3.24 | 0.15 | 77.7 |
| 4/21/2015 23:40:06 | 42.98 | 41.08 | 1,421 | 3.24 | 0.15 | 77.7 |
| 4/21/2015 23:40:07 | 43.31 | 41.41 | 1,421 | 3.22 | 0.15 | 77.7 |
| 4/21/2015 23:40:07 | 43.64 | 41.74 | 1,421 | 3.22 | 0.15 | 77.7 |
| 4/21/2015 23:40:07 | 43.96 | 42.06 | 1,430 | 3.24 | 0.15 | 78.2 |
| 4/21/2015 23:40:08 | 44.29 | 42.39 | 1,430 | 3.24 | 0.15 | 78.2 |
| 4/21/2015 23:40:08 | 44.62 | 42.72 | 1,407 | 3.24 | 0.15 | 76.9 |
| 4/21/2015 23:40:08 | 44.95 | 43.05 | 1,407 | 3.24 | 0.15 | 76.9 |
| 4/21/2015 23:40:08 | 45.28 | 43.38 | 1,391 | 3.23 | 0.15 | 76.1 |
| 4/21/2015 23:40:09 | 45.60 | 43.70 | 1,391 | 3.23 | 0.15 | 76.1 |
| 4/21/2015 23:40:09 | 45.93 | 44.03 | 1,391 | 3.23 | 0.15 | 76.1 |
| 4/21/2015 23:40:09 | 46.26 | 44.36 | 1,419 | 3.25 | 0.15 | 77.6 |
| 4/21/2015 23:40:09 | 46.59 | 44.69 | 1,419 | 3.25 | 0.15 | 77.6 |
| 4/21/2015 23:40:09 | 46.92 | 45.02 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/21/2015 23:40:10 | 47.24 | 45.34 | 1,419 | 3.22 | 0.15 | 77.6 |
| 4/21/2015 23:40:10 | 47.57 | 45.67 | 1,437 | 3.21 | 0.15 | 78.6 |
| 4/21/2015 23:40:10 | 47.90 | 46.00 | 1,437 | 3.21 | 0.15 | 78.6 |
| 4/21/2015 23:40:10 | 48.23 | 46.33 | 1,423 | 3.22 | 0.15 | 77.8 |
| 4/21/2015 23:40:11 | 48.56 | 46.66 | 1,423 | 3.22 | 0.15 | 77.8 |
| 4/21/2015 23:40:42 | 48.88 | 46.98 | 0 | 1.87 | 1.15 | 0.0 |
| 4/21/2015 23:41:03 | 49.21 | 47.31 | 34 | 3.10 | 1.33 | 1.9 |
| 4/21/2015 23:41:08 | 49.54 | 47.64 | 0 | 3.27 | 1.05 | 0.0 |
| 4/21/2015 23:41:20 | 49.87 | 47.97 | 35 | 2.08 | 1.12 | 1.9 |
| 4/21/2015 23:41:23 | 50.20 | 48.30 | 131 | 1.89 | 1.22 | 7.1 |
| 4/21/2015 23:41:29 | 50.53 | 48.63 | 69 | 2.03 | 1.29 | 3.8 |
| 4/21/2015 23:41:35 | 50.85 | 48.95 | 54 | 2.08 | 1.21 | 3.0 |
| 4/21/2015 23:41:40 | 51.18 | 49.28 | 75 | 2.08 | 1.28 | 4.1 |
| 4/21/2015 23:41:47 | 51.51 | 49.61 | 52 | 2.07 | 1.23 | 2.8 |
| 4/21/2015 23:41:53 | 51.84 | 49.94 | 82 | 1.84 | 1.11 | 4.5 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4/21/2015 | 23:41:53 | 51.93 | 50.03 | 82 | 1.84 | 1.11 | 4.5 | |

## E76 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:38:36

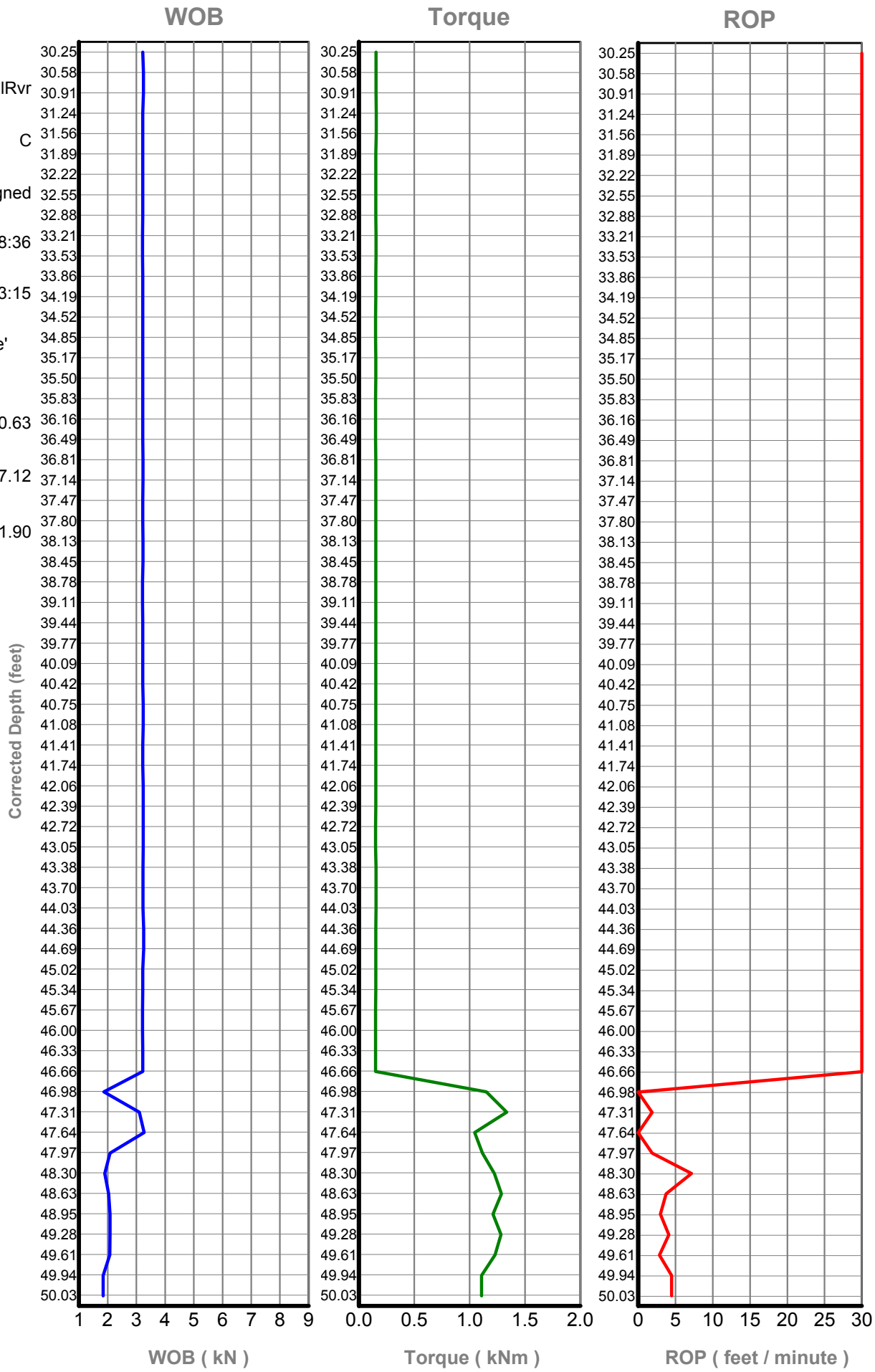
**End Date:**
4/21/2015 23:43:15

**Operator Note:**
'1.9 1.9 c Auto Complete'

**Northing:**
368,370.63

**Easting:**
252,887.12

**Tide (feet):**
1.90



## Hole: E77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:54:09 | 32.15 | 30.05 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:54:09 | 32.48 | 30.38 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:54:10 | 32.81 | 30.71 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:54:10 | 33.14 | 31.04 | 1,023 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:54:10 | 33.46 | 31.36 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:54:11 | 33.79 | 31.69 | 1,033 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:54:11 | 34.12 | 32.02 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:54:11 | 34.45 | 32.35 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:54:12 | 34.78 | 32.68 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:54:12 | 35.11 | 33.01 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:54:12 | 35.43 | 33.33 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:54:13 | 35.76 | 33.66 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:54:13 | 36.09 | 33.99 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:54:13 | 36.42 | 34.32 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:14 | 36.75 | 34.65 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:14 | 37.07 | 34.97 | 1,021 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:54:15 | 37.40 | 35.30 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:15 | 37.73 | 35.63 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:15 | 38.06 | 35.96 | 1,019 | 1.73 | 0.21 | 55.7 |
| 4/21/2015 8:54:16 | 38.39 | 36.29 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:16 | 38.71 | 36.61 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:54:17 | 39.04 | 36.94 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:54:17 | 39.37 | 37.27 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 8:54:17 | 39.70 | 37.60 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:54:18 | 40.03 | 37.93 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:54:18 | 40.35 | 38.25 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:18 | 40.68 | 38.58 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:19 | 41.01 | 38.91 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:19 | 41.34 | 39.24 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:19 | 41.67 | 39.57 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:20 | 41.99 | 39.89 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:20 | 42.32 | 40.22 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:20 | 42.65 | 40.55 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:54:21 | 42.98 | 40.88 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:54:21 | 43.31 | 41.21 | 1,012 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 8:54:21 | 43.64 | 41.54 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:22 | 43.96 | 41.86 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:22 | 44.29 | 42.19 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:54:22 | 44.62 | 42.52 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:23 | 44.95 | 42.85 | 1,012 | 1.73 | 0.21 | 55.3 |
| 4/21/2015 8:54:23 | 45.28 | 43.18 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:54:23 | 45.60 | 43.50 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:54:24 | 45.93 | 43.83 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:54:24 | 46.26 | 44.16 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:54:24 | 46.59 | 44.49 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:25 | 46.92 | 44.82 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:54:25 | 47.24 | 45.14 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 8:54:25 | 47.57 | 45.47 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:54:26 | 47.90 | 45.80 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:54:27 | 48.23 | 46.13 | 1,006 | 1.73 | 0.21 | 55.0 |
| 4/21/2015 8:54:27 | 48.56 | 46.46 | 1,009 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:27 | 48.88 | 46.78 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:54:28 | 49.21 | 47.11 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 8:54:28 | 49.54 | 47.44 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:28 | 49.87 | 47.77 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:29 | 50.20 | 48.10 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:29 | 50.53 | 48.43 | 1,010 | 1.73 | 0.21 | 55.2 |
| 4/21/2015 8:54:29 | 50.85 | 48.75 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 8:54:30 | 51.18 | 49.08 | 1,007 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 8:54:39 | 51.51 | 49.41 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 8:54:40 | 51.84 | 49.74 | 128 | 1.73 | 0.21 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:54:42 | 52.17 | 50.07 | 284 | 1.73 | 0.21 | 15.5 |
| 4/21/2015 | 8:54:42 | 52.49 | 50.39 | 278 | 1.73 | 0.21 | 15.2 |
| 4/21/2015 | 8:54:48 | 52.82 | 50.72 | 47 | 1.73 | 0.21 | 2.6 |
| 4/21/2015 | 8:54:50 | 53.15 | 51.05 | 215 | 1.73 | 0.21 | 11.8 |
| 4/21/2015 | 8:54:55 | 53.48 | 51.38 | 63 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 | 8:55:00 | 53.81 | 51.71 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:55:05 | 54.13 | 52.03 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:55:10 | 54.46 | 52.36 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:55:14 | 54.79 | 52.69 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 8:55:19 | 55.12 | 53.02 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:55:23 | 55.45 | 53.35 | 81 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 8:55:28 | 55.77 | 53.67 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 8:55:33 | 56.10 | 54.00 | 70 | 1.73 | 0.21 | 3.8 |
| 4/21/2015 | 8:55:39 | 56.43 | 54.33 | 66 | 1.73 | 0.21 | 3.6 |
| 4/21/2015 | 8:55:43 | 56.76 | 54.66 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 8:55:48 | 57.09 | 54.99 | 73 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 | 8:55:52 | 57.36 | 55.26 | 69 | 1.73 | 0.21 | 3.8 |

## E77 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:52:22

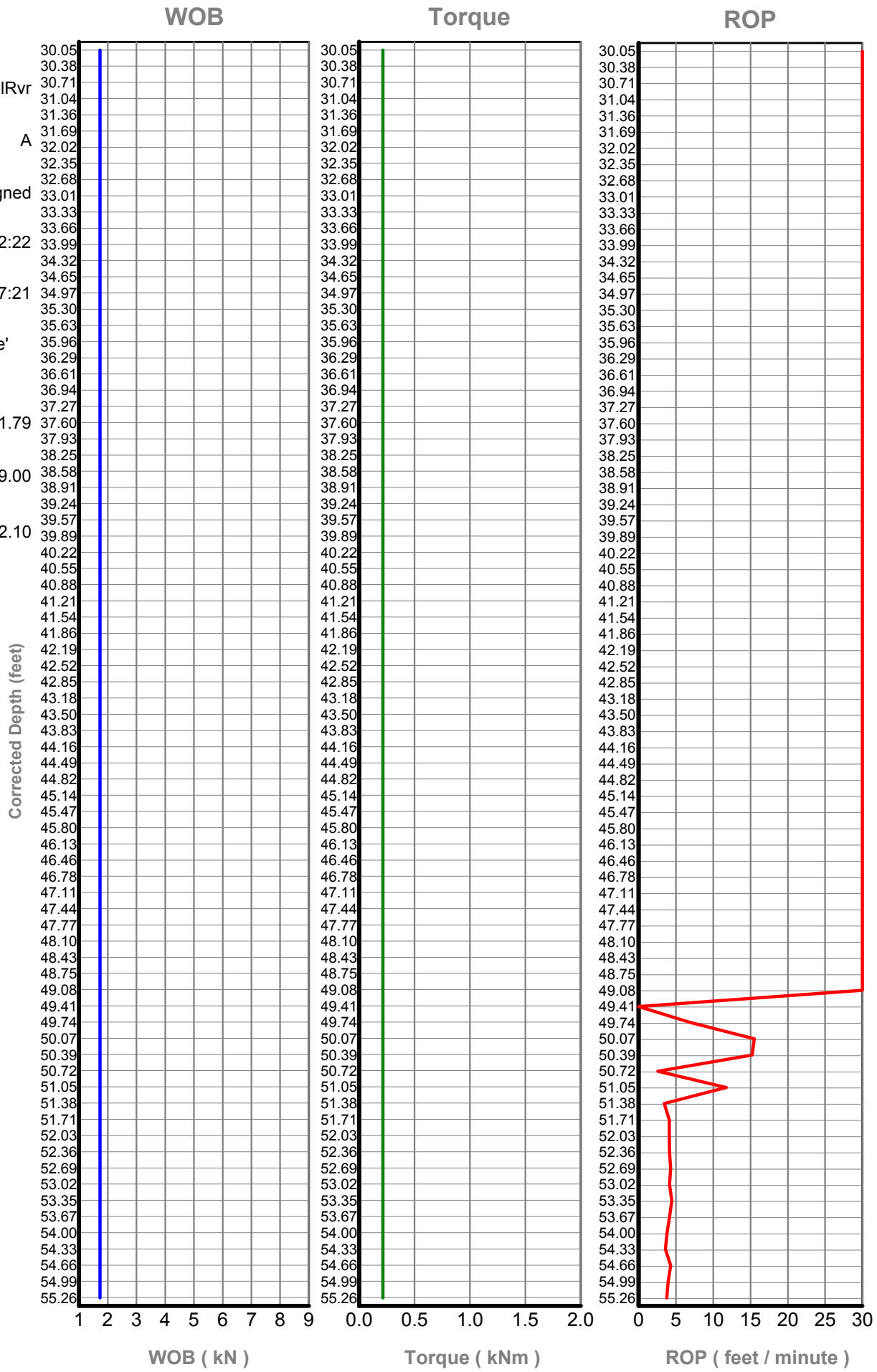
**End Date:**
4/21/2015 8:57:21

**Operator Note:**
'2.1 2.3 b Auto Complete'

**Northing:**
368,431.79

**Easting:**
252,959.00

**Tide (feet):**
2.10



## Hole: E78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:59:15 | 32.15 | 30.15 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 8:59:16 | 32.48 | 30.48 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 8:59:16 | 32.81 | 30.81 | 1,040 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 8:59:16 | 33.14 | 31.14 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 8:59:17 | 33.46 | 31.46 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 8:59:17 | 33.79 | 31.79 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 8:59:18 | 34.12 | 32.12 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 8:59:18 | 34.45 | 32.45 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 8:59:18 | 34.78 | 32.78 | 1,057 | 1.73 | 0.21 | 57.8 |
| 4/21/2015 8:59:19 | 35.11 | 33.11 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 8:59:19 | 35.43 | 33.43 | 1,060 | 1.73 | 0.21 | 58.0 |
| 4/21/2015 8:59:19 | 35.76 | 33.76 | 1,041 | 1.73 | 0.21 | 56.9 |
| 4/21/2015 8:59:20 | 36.09 | 34.09 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 8:59:20 | 36.42 | 34.42 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 8:59:20 | 36.75 | 34.75 | 1,044 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 8:59:21 | 37.07 | 35.07 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:59:21 | 37.40 | 35.40 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:59:21 | 37.73 | 35.73 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:59:22 | 38.06 | 36.06 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 8:59:22 | 38.39 | 36.39 | 1,042 | 1.73 | 0.21 | 57.0 |
| 4/21/2015 8:59:22 | 38.71 | 36.71 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:59:23 | 39.04 | 37.04 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:59:23 | 39.37 | 37.37 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:59:23 | 39.70 | 37.70 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:59:24 | 40.03 | 38.03 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:59:24 | 40.35 | 38.35 | 1,038 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 8:59:24 | 40.68 | 38.68 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 8:59:25 | 41.01 | 39.01 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:59:25 | 41.34 | 39.34 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:59:25 | 41.67 | 39.67 | 1,021 | 1.73 | 0.21 | 55.8 |
| 4/21/2015 8:59:26 | 41.99 | 39.99 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:59:26 | 42.32 | 40.32 | 1,024 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:59:26 | 42.65 | 40.65 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:27 | 42.98 | 40.98 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:27 | 43.31 | 41.31 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:27 | 43.64 | 41.64 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:28 | 43.96 | 41.96 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:28 | 44.29 | 42.29 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:29 | 44.62 | 42.62 | 1,027 | 1.73 | 0.21 | 56.2 |
| 4/21/2015 8:59:29 | 44.95 | 42.95 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:59:30 | 45.28 | 43.28 | 1,022 | 1.73 | 0.21 | 55.9 |
| 4/21/2015 8:59:30 | 45.60 | 43.60 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 8:59:30 | 45.93 | 43.93 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 8:59:31 | 46.26 | 44.26 | 1,013 | 1.73 | 0.21 | 55.4 |
| 4/21/2015 8:59:31 | 46.59 | 44.59 | 1,015 | 1.73 | 0.21 | 55.5 |
| 4/21/2015 8:59:31 | 46.92 | 44.92 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:59:32 | 47.24 | 45.24 | 1,025 | 1.73 | 0.21 | 56.0 |
| 4/21/2015 8:59:32 | 47.57 | 45.57 | 1,045 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 8:59:32 | 47.90 | 45.90 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:59:33 | 48.23 | 46.23 | 1,027 | 1.73 | 0.21 | 56.1 |
| 4/21/2015 8:59:33 | 48.56 | 46.56 | 1,032 | 1.73 | 0.21 | 56.4 |
| 4/21/2015 8:59:33 | 48.88 | 46.88 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:59:34 | 49.21 | 47.21 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:59:34 | 49.54 | 47.54 | 1,034 | 1.73 | 0.21 | 56.5 |
| 4/21/2015 8:59:34 | 49.87 | 47.87 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 8:59:35 | 50.20 | 48.20 | 1,008 | 1.73 | 0.21 | 55.1 |
| 4/21/2015 8:59:43 | 50.53 | 48.53 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 8:59:45 | 50.85 | 48.85 | 258 | 1.73 | 0.21 | 14.1 |
| 4/21/2015 8:59:47 | 51.18 | 49.18 | 229 | 1.73 | 0.21 | 12.5 |
| 4/21/2015 8:59:48 | 51.51 | 49.51 | 263 | 1.73 | 0.21 | 14.4 |
| 4/21/2015 8:59:49 | 51.84 | 49.84 | 274 | 1.73 | 0.21 | 15.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 8:59:59 | 52.17 | 50.17 | 9 | 1.73 | 0.21 | 0.5 |
| 4/21/2015 | 9:00:00 | 52.49 | 50.49 | 143 | 1.73 | 0.21 | 7.8 |
| 4/21/2015 | 9:00:01 | 52.82 | 50.82 | 256 | 1.73 | 0.21 | 14.0 |
| 4/21/2015 | 9:00:04 | 53.15 | 51.15 | 214 | 1.73 | 0.21 | 11.7 |
| 4/21/2015 | 9:00:07 | 53.48 | 51.48 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 9:00:11 | 53.81 | 51.81 | 99 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 | 9:00:15 | 54.13 | 52.13 | 85 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 9:00:18 | 54.46 | 52.46 | 124 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 | 9:00:21 | 54.79 | 52.79 | 129 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 9:00:23 | 55.12 | 53.12 | 134 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 9:00:28 | 55.45 | 53.45 | 90 | 1.73 | 0.21 | 4.9 |
| 4/21/2015 | 9:00:32 | 55.77 | 53.77 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 9:00:37 | 56.10 | 54.10 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 9:00:42 | 56.43 | 54.43 | 75 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 9:00:47 | 56.76 | 54.76 | 78 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 9:00:51 | 57.09 | 55.09 | 87 | 1.73 | 0.21 | 4.8 |
| 4/21/2015 | 9:00:53 | 57.25 | 55.25 | 84 | 1.73 | 0.21 | 4.6 |

## E78 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:58:00

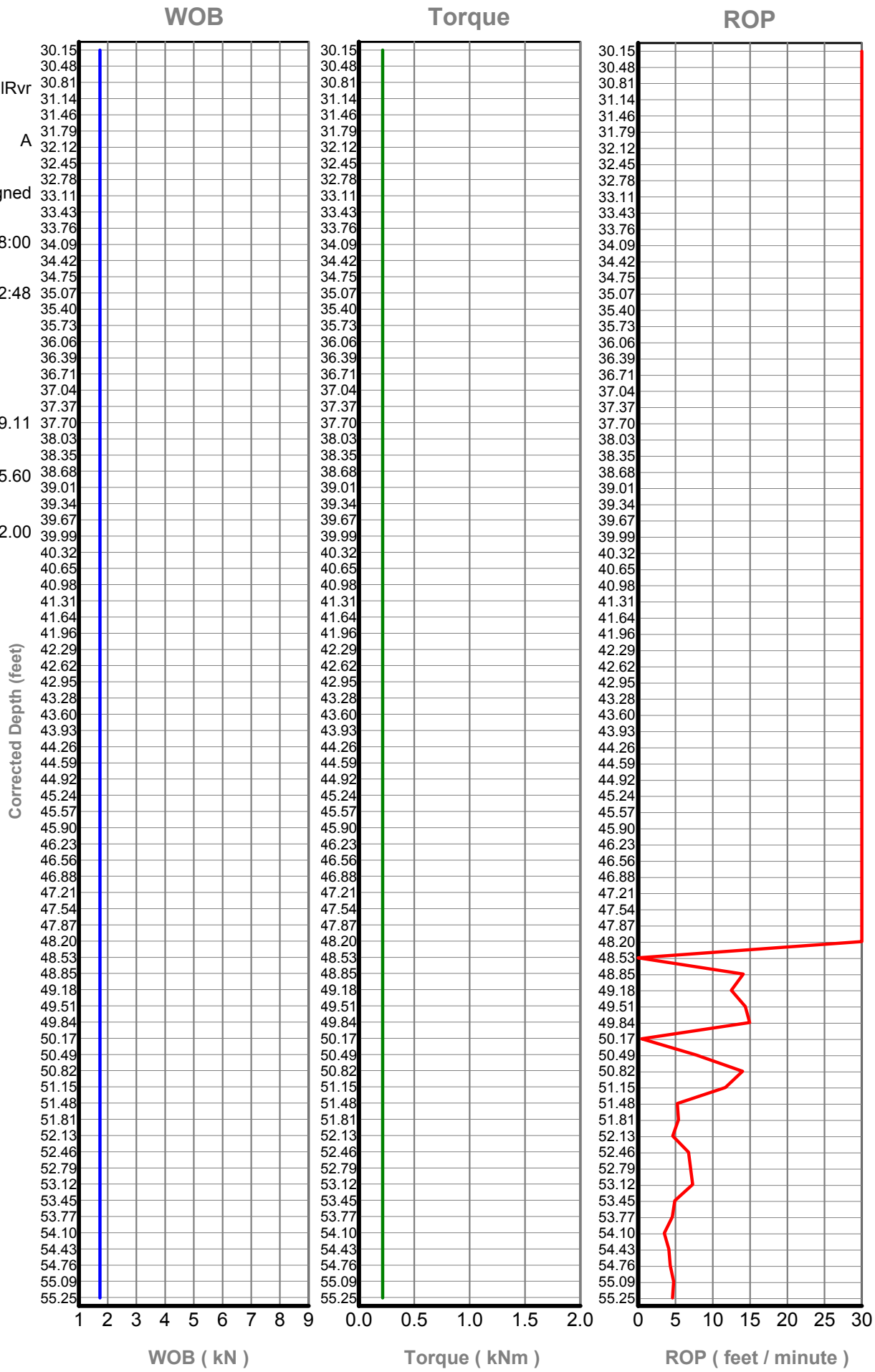
**End Date:**
4/21/2015 9:02:48

**Operator Note:**
'2 2.2 b Auto Complete'

**Northing:**
368,469.11

**Easting:**
253,005.60

**Tide (feet):**
2.00



## Hole: E79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 8:58:25 | 32.15 | 30.05 | 289 | 1.32 | 0.26 | 15.8 |
| 4/21/2015 8:58:26 | 32.48 | 30.38 | 292 | 1.40 | 0.26 | 16.0 |
| 4/21/2015 8:58:28 | 32.81 | 30.71 | 292 | 1.36 | 0.26 | 16.0 |
| 4/21/2015 8:58:29 | 33.14 | 31.04 | 289 | 1.40 | 0.26 | 15.8 |
| 4/21/2015 8:58:30 | 33.46 | 31.36 | 289 | 1.32 | 0.26 | 15.8 |
| 4/21/2015 8:58:31 | 33.79 | 31.69 | 292 | 1.24 | 0.26 | 16.0 |
| 4/21/2015 8:58:33 | 34.12 | 32.02 | 290 | 1.38 | 0.27 | 15.9 |
| 4/21/2015 8:58:34 | 34.45 | 32.35 | 289 | 1.29 | 0.26 | 15.8 |
| 4/21/2015 8:58:35 | 34.78 | 32.68 | 289 | 1.34 | 0.26 | 15.8 |
| 4/21/2015 8:58:36 | 35.11 | 33.01 | 287 | 1.39 | 0.26 | 15.7 |
| 4/21/2015 8:58:38 | 35.43 | 33.33 | 289 | 1.34 | 0.26 | 15.8 |
| 4/21/2015 8:58:39 | 35.76 | 33.66 | 288 | 1.34 | 0.26 | 15.7 |
| 4/21/2015 8:58:40 | 36.09 | 33.99 | 288 | 1.35 | 0.26 | 15.7 |
| 4/21/2015 8:58:41 | 36.42 | 34.32 | 292 | 1.39 | 0.26 | 16.0 |
| 4/21/2015 8:58:43 | 36.75 | 34.65 | 289 | 1.31 | 0.25 | 15.8 |
| 4/21/2015 8:58:44 | 37.07 | 34.97 | 289 | 1.28 | 0.26 | 15.8 |
| 4/21/2015 8:58:45 | 37.40 | 35.30 | 289 | 1.37 | 0.26 | 15.8 |
| 4/21/2015 8:58:46 | 37.73 | 35.63 | 289 | 1.32 | 0.26 | 15.8 |
| 4/21/2015 8:58:48 | 38.06 | 35.96 | 289 | 1.37 | 0.25 | 15.8 |
| 4/21/2015 8:58:49 | 38.39 | 36.29 | 289 | 1.30 | 0.26 | 15.8 |
| 4/21/2015 8:58:50 | 38.71 | 36.61 | 286 | 1.31 | 0.26 | 15.7 |
| 4/21/2015 8:58:51 | 39.04 | 36.94 | 284 | 1.37 | 0.26 | 15.6 |
| 4/21/2015 8:58:52 | 39.37 | 37.27 | 289 | 1.32 | 0.26 | 15.8 |
| 4/21/2015 8:58:54 | 39.70 | 37.60 | 284 | 1.34 | 0.25 | 15.6 |
| 4/21/2015 8:58:55 | 40.03 | 37.93 | 286 | 1.33 | 0.26 | 15.7 |
| 4/21/2015 8:58:56 | 40.35 | 38.25 | 286 | 1.33 | 0.26 | 15.6 |
| 4/21/2015 8:58:58 | 40.68 | 38.58 | 287 | 1.35 | 0.26 | 15.7 |
| 4/21/2015 8:58:59 | 41.01 | 38.91 | 285 | 1.32 | 0.25 | 15.6 |
| 4/21/2015 8:59:00 | 41.34 | 39.24 | 289 | 1.34 | 0.25 | 15.8 |
| 4/21/2015 8:59:01 | 41.67 | 39.57 | 286 | 1.37 | 0.25 | 15.7 |
| 4/21/2015 8:59:02 | 41.99 | 39.89 | 291 | 1.30 | 0.25 | 15.9 |
| 4/21/2015 8:59:04 | 42.32 | 40.22 | 288 | 1.32 | 0.25 | 15.7 |
| 4/21/2015 8:59:05 | 42.65 | 40.55 | 286 | 1.36 | 0.25 | 15.7 |
| 4/21/2015 8:59:07 | 42.98 | 40.88 | 288 | 1.34 | 0.25 | 15.7 |
| 4/21/2015 8:59:08 | 43.31 | 41.21 | 282 | 1.36 | 0.25 | 15.4 |
| 4/21/2015 8:59:09 | 43.64 | 41.54 | 282 | 1.39 | 0.26 | 15.4 |
| 4/21/2015 8:59:10 | 43.96 | 41.86 | 280 | 1.34 | 0.26 | 15.3 |
| 4/21/2015 8:59:11 | 44.29 | 42.19 | 284 | 1.42 | 0.25 | 15.5 |
| 4/21/2015 8:59:13 | 44.62 | 42.52 | 286 | 1.33 | 0.25 | 15.7 |
| 4/21/2015 8:59:14 | 44.95 | 42.85 | 286 | 1.34 | 0.25 | 15.7 |
| 4/21/2015 8:59:15 | 45.28 | 43.18 | 285 | 1.32 | 0.26 | 15.6 |
| 4/21/2015 8:59:17 | 45.60 | 43.50 | 283 | 1.32 | 0.26 | 15.5 |
| 4/21/2015 8:59:18 | 45.93 | 43.83 | 288 | 1.34 | 0.26 | 15.7 |
| 4/21/2015 8:59:19 | 46.26 | 44.16 | 285 | 1.30 | 0.26 | 15.6 |
| 4/21/2015 8:59:20 | 46.59 | 44.49 | 286 | 1.38 | 0.25 | 15.7 |
| 4/21/2015 8:59:21 | 46.92 | 44.82 | 286 | 1.31 | 0.26 | 15.7 |
| 4/21/2015 8:59:23 | 47.24 | 45.14 | 270 | 1.57 | 0.26 | 14.8 |
| 4/21/2015 8:59:33 | 47.57 | 45.47 | 96 | 1.54 | 1.04 | 5.2 |
| 4/21/2015 8:59:36 | 47.90 | 45.80 | 168 | 1.57 | 1.14 | 9.2 |
| 4/21/2015 8:59:38 | 48.23 | 46.13 | 136 | 1.55 | 1.07 | 7.4 |
| 4/21/2015 8:59:40 | 48.56 | 46.46 | 176 | 1.55 | 1.09 | 9.6 |
| 4/21/2015 8:59:42 | 48.88 | 46.78 | 164 | 1.55 | 1.12 | 9.0 |
| 4/21/2015 8:59:44 | 49.21 | 47.11 | 142 | 1.57 | 1.13 | 7.8 |
| 4/21/2015 8:59:48 | 49.54 | 47.44 | 118 | 1.57 | 1.12 | 6.5 |
| 4/21/2015 8:59:51 | 49.87 | 47.77 | 113 | 1.59 | 1.14 | 6.2 |
| 4/21/2015 8:59:56 | 50.20 | 48.10 | 67 | 1.59 | 1.10 | 3.7 |
| 4/21/2015 9:00:01 | 50.53 | 48.43 | 83 | 1.59 | 1.09 | 4.6 |
| 4/21/2015 9:00:07 | 50.85 | 48.75 | 59 | 1.60 | 1.04 | 3.2 |
| 4/21/2015 9:00:15 | 51.18 | 49.08 | 37 | 1.60 | 0.99 | 2.1 |
| 4/21/2015 9:00:23 | 51.51 | 49.41 | 61 | 1.62 | 1.08 | 3.3 |
| 4/21/2015 9:00:26 | 51.84 | 49.74 | 103 | 1.64 | 1.10 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 9:00:31 | 52.17 | 50.07 | 78 | 1.66 | 1.07 | 4.3 |
| 4/21/2015 | 9:00:36 | 52.49 | 50.39 | 65 | 1.66 | 1.07 | 3.6 |
| 4/21/2015 | 9:00:42 | 52.82 | 50.72 | 64 | 1.66 | 1.12 | 3.5 |
| 4/21/2015 | 9:00:49 | 53.15 | 51.05 | 53 | 1.68 | 1.15 | 2.9 |
| 4/21/2015 | 9:00:56 | 53.48 | 51.38 | 44 | 1.68 | 1.14 | 2.4 |
| 4/21/2015 | 9:01:04 | 53.81 | 51.71 | 49 | 1.68 | 1.17 | 2.7 |
| 4/21/2015 | 9:01:09 | 54.03 | 51.93 | 45 | 1.63 | 1.20 | 2.5 |

## E79 - Summary

**Pattern Number:**
AreaE_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 8:55:40

**End Date:**
4/21/2015 9:21:47

**Operator Note:**
'2.1 2.0 c Auto Complete'

**Northing:**
368,516.56

**Easting:**
253,063.68

**Tide (feet):**
2.10



## Hole: E8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:32:35 | 36.42 | 30.12 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 12:32:35 | 36.75 | 30.45 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 12:32:36 | 37.07 | 30.77 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 12:32:37 | 37.40 | 31.10 | 1,088 | 0.43 | 0.46 | 59.5 |
| 4/20/2015 12:32:37 | 37.73 | 31.43 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 12:32:37 | 38.06 | 31.76 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 12:32:38 | 38.39 | 32.09 | 1,082 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 12:32:38 | 38.71 | 32.41 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 12:33:27 | 39.04 | 32.74 | 38 | 0.43 | 0.46 | 2.1 |
| 4/20/2015 12:33:29 | 39.37 | 33.07 | 125 | 0.43 | 0.46 | 6.9 |
| 4/20/2015 12:33:31 | 39.70 | 33.40 | 169 | 0.43 | 0.46 | 9.2 |
| 4/20/2015 12:33:34 | 40.03 | 33.73 | 123 | 0.43 | 0.46 | 6.7 |
| 4/20/2015 12:33:35 | 40.35 | 34.05 | 161 | 0.43 | 0.46 | 8.8 |
| 4/20/2015 12:33:36 | 40.68 | 34.38 | 283 | 0.43 | 0.46 | 15.5 |
| 4/20/2015 12:33:38 | 41.01 | 34.71 | 326 | 0.43 | 0.46 | 17.8 |
| 4/20/2015 12:34:44 | 41.34 | 35.04 | 23 | 0.43 | 0.46 | 1.3 |
| 4/20/2015 12:34:45 | 41.67 | 35.37 | 168 | 0.43 | 0.46 | 9.2 |
| 4/20/2015 12:34:49 | 41.99 | 35.69 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:34:55 | 42.32 | 36.02 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:35:01 | 42.65 | 36.35 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 12:35:06 | 42.98 | 36.68 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:35:12 | 43.31 | 37.01 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 12:35:17 | 43.64 | 37.34 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 12:35:22 | 43.96 | 37.66 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:35:27 | 44.29 | 37.99 | 82 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 12:35:32 | 44.62 | 38.32 | 63 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 12:35:37 | 44.95 | 38.65 | 74 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 12:35:42 | 45.28 | 38.98 | 66 | 0.43 | 0.46 | 3.6 |
| 4/20/2015 12:35:48 | 45.60 | 39.30 | 71 | 0.43 | 0.46 | 3.9 |
| 4/20/2015 12:35:53 | 45.93 | 39.63 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 12:35:58 | 46.26 | 39.96 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 12:36:03 | 46.59 | 40.29 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 12:36:07 | 46.92 | 40.62 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 12:36:11 | 47.24 | 40.94 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 12:36:15 | 47.57 | 41.27 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 12:36:19 | 47.90 | 41.60 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:36:24 | 48.23 | 41.93 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 12:36:28 | 48.56 | 42.26 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 12:36:31 | 48.88 | 42.58 | 105 | 0.43 | 0.46 | 5.7 |
| 4/20/2015 12:36:36 | 49.21 | 42.91 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:36:40 | 49.54 | 43.24 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 12:36:45 | 49.87 | 43.57 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:36:49 | 50.20 | 43.90 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 12:36:52 | 50.53 | 44.23 | 100 | 0.43 | 0.46 | 5.5 |
| 4/20/2015 12:36:56 | 50.85 | 44.55 | 102 | 0.43 | 0.46 | 5.6 |
| 4/20/2015 12:37:00 | 51.18 | 44.88 | 96 | 0.43 | 0.46 | 5.2 |
| 4/20/2015 12:37:03 | 51.51 | 45.21 | 102 | 0.43 | 0.46 | 5.6 |
| 4/20/2015 12:37:07 | 51.84 | 45.54 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 12:37:11 | 52.17 | 45.87 | 81 | 0.43 | 0.46 | 4.5 |
| 4/20/2015 12:37:16 | 52.49 | 46.19 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 12:37:22 | 52.82 | 46.52 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:37:28 | 53.15 | 46.85 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:37:35 | 53.48 | 47.18 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 12:37:38 | 53.68 | 47.38 | 50 | 0.43 | 0.46 | 2.8 |

## E8 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 12:29:16

**End Date:**
4/20/2015 12:39:27

**Operator Note:**
'6.3 6.2 b Auto Complete'

**Northing:**
369,094.59

**Easting:**
253,307.15

**Tide (feet):**
6.30



## Hole: E80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 0:51:00 | 36.42 | 30.22 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 0:51:00 | 36.75 | 30.55 | 1,035 | 1.73 | 0.21 | 56.6 |
| 4/21/2015 0:51:06 | 37.07 | 30.87 | 3 | 1.73 | 0.21 | 0.2 |
| 4/21/2015 0:51:06 | 37.40 | 31.20 | 74 | 1.73 | 0.21 | 4.0 |
| 4/21/2015 0:51:07 | 37.73 | 31.53 | 259 | 1.73 | 0.21 | 14.2 |
| 4/21/2015 0:51:07 | 38.06 | 31.86 | 453 | 1.73 | 0.21 | 24.8 |
| 4/21/2015 0:51:08 | 38.39 | 32.19 | 453 | 1.73 | 0.21 | 24.8 |
| 4/21/2015 0:51:08 | 38.71 | 32.51 | 648 | 1.73 | 0.21 | 35.4 |
| 4/21/2015 0:51:08 | 39.04 | 32.84 | 836 | 1.73 | 0.21 | 45.7 |
| 4/21/2015 0:51:09 | 39.37 | 33.17 | 836 | 1.73 | 0.21 | 45.7 |
| 4/21/2015 0:51:09 | 39.70 | 33.50 | 965 | 1.73 | 0.21 | 52.8 |
| 4/21/2015 0:51:09 | 40.03 | 33.83 | 974 | 1.73 | 0.21 | 53.3 |
| 4/21/2015 0:51:10 | 40.35 | 34.15 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 0:51:10 | 40.68 | 34.48 | 971 | 1.73 | 0.21 | 53.1 |
| 4/21/2015 0:51:10 | 41.01 | 34.81 | 980 | 1.73 | 0.21 | 53.6 |
| 4/21/2015 0:51:11 | 41.34 | 35.14 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:11 | 41.67 | 35.47 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:11 | 41.99 | 35.79 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:12 | 42.32 | 36.12 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:12 | 42.65 | 36.45 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:12 | 42.98 | 36.78 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 0:51:13 | 43.31 | 37.11 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:13 | 43.64 | 37.44 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:13 | 43.96 | 37.76 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:14 | 44.29 | 38.09 | 989 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 0:51:14 | 44.62 | 38.42 | 988 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 0:51:15 | 44.95 | 38.75 | 988 | 1.73 | 0.21 | 54.1 |
| 4/21/2015 0:51:15 | 45.28 | 39.08 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:15 | 45.60 | 39.40 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:16 | 45.93 | 39.73 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:16 | 46.26 | 40.06 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:17 | 46.59 | 40.39 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:17 | 46.92 | 40.72 | 991 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:17 | 47.24 | 41.04 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:18 | 47.57 | 41.37 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 0:51:18 | 47.90 | 41.70 | 986 | 1.73 | 0.21 | 53.9 |
| 4/21/2015 0:51:18 | 48.23 | 42.03 | 992 | 1.73 | 0.21 | 54.2 |
| 4/21/2015 0:51:19 | 48.56 | 42.36 | 994 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:19 | 48.88 | 42.68 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:20 | 49.21 | 43.01 | 995 | 1.73 | 0.21 | 54.4 |
| 4/21/2015 0:51:20 | 49.54 | 43.34 | 1,000 | 1.73 | 0.21 | 54.7 |
| 4/21/2015 0:51:20 | 49.87 | 43.67 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 0:51:21 | 50.20 | 44.00 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 0:51:21 | 50.53 | 44.33 | 1,003 | 1.73 | 0.21 | 54.9 |
| 4/21/2015 0:51:21 | 50.85 | 44.65 | 997 | 1.73 | 0.21 | 54.5 |
| 4/21/2015 0:51:48 | 51.18 | 44.98 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 0:51:51 | 51.51 | 45.31 | 195 | 1.73 | 0.21 | 10.7 |
| 4/21/2015 0:51:55 | 51.84 | 45.64 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 0:52:06 | 52.17 | 45.97 | 63 | 1.73 | 0.21 | 3.4 |
| 4/21/2015 0:52:08 | 52.49 | 46.29 | 193 | 1.73 | 0.21 | 10.6 |
| 4/21/2015 0:52:13 | 52.82 | 46.62 | 102 | 1.73 | 0.21 | 5.6 |
| 4/21/2015 0:52:28 | 53.15 | 46.95 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 0:52:34 | 53.48 | 47.28 | 23 | 1.73 | 0.21 | 1.3 |
| 4/21/2015 0:52:45 | 53.81 | 47.61 | 43 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 0:52:48 | 54.13 | 47.93 | 94 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 0:52:50 | 54.46 | 48.26 | 168 | 1.73 | 0.21 | 9.2 |
| 4/21/2015 0:52:53 | 54.79 | 48.59 | 134 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 0:52:56 | 55.12 | 48.92 | 145 | 1.73 | 0.21 | 8.0 |
| 4/21/2015 0:52:58 | 55.45 | 49.25 | 156 | 1.73 | 0.21 | 8.5 |
| 4/21/2015 0:53:01 | 55.77 | 49.57 | 96 | 1.73 | 0.21 | 5.3 |
| 4/21/2015 0:53:05 | 56.10 | 49.90 | 116 | 1.73 | 0.21 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 0:53:07 | 56.43 | 50.23 | 116 | 1.73 | 0.21 | 6.3 |
| 4/21/2015 | 0:53:10 | 56.76 | 50.56 | 133 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 0:53:13 | 57.09 | 50.89 | 134 | 1.73 | 0.21 | 7.3 |
| 4/21/2015 | 0:53:19 | 57.41 | 51.21 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 | 0:53:24 | 57.74 | 51.54 | 76 | 1.73 | 0.21 | 4.1 |
| 4/21/2015 | 0:53:30 | 58.07 | 51.87 | 64 | 1.73 | 0.21 | 3.5 |
| 4/21/2015 | 0:53:36 | 58.40 | 52.20 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 0:53:43 | 58.73 | 52.53 | 44 | 1.73 | 0.21 | 2.4 |
| 4/21/2015 | 0:53:50 | 59.06 | 52.86 | 67 | 1.73 | 0.21 | 3.7 |
| 4/21/2015 | 0:53:53 | 59.38 | 53.18 | 125 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 | 0:53:56 | 59.71 | 53.51 | 128 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 0:53:59 | 60.04 | 53.84 | 99 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 | 0:54:03 | 60.37 | 54.17 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 0:54:07 | 60.70 | 54.50 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 0:54:18 | 61.02 | 54.82 | 38 | 1.73 | 0.21 | 2.1 |
| 4/21/2015 | 0:54:18 | 61.08 | 54.88 | 38 | 1.73 | 0.21 | 2.1 |

## E80 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 0:46:33

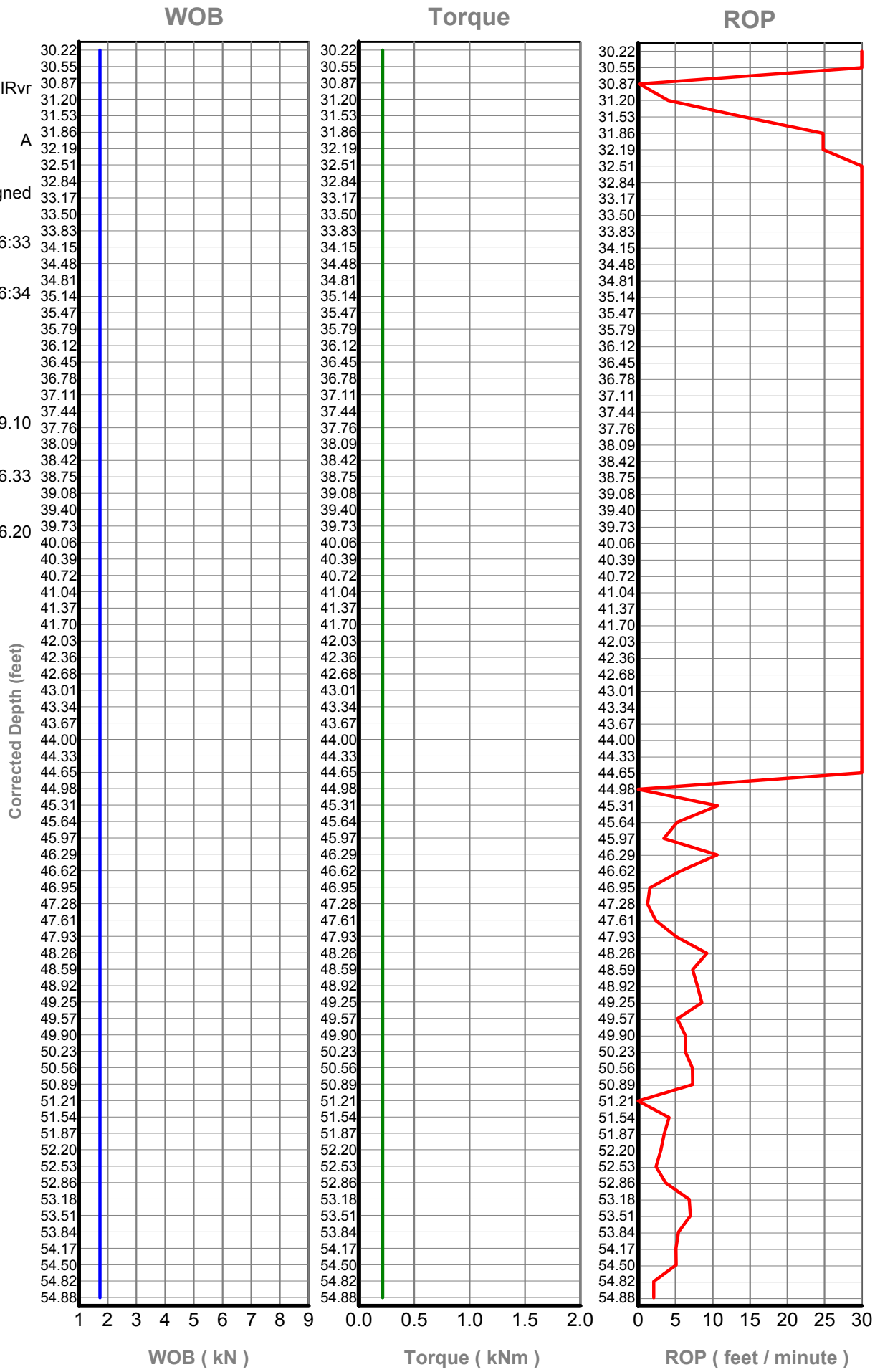
**End Date:**
4/21/2015 0:56:34

**Operator Note:**
'6.2 6 b Auto Complete'

**Northing:**
368,589.10

**Easting:**
253,146.33

**Tide (feet):**
6.20



## Hole: E81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 1:04:35 | 36.42 | 30.12 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:36 | 36.75 | 30.45 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:36 | 37.07 | 30.77 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:36 | 37.40 | 31.10 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:36 | 37.73 | 31.43 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:37 | 38.06 | 31.76 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:37 | 38.39 | 32.09 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:37 | 38.71 | 32.41 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:04:38 | 39.04 | 32.74 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:38 | 39.37 | 33.07 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:38 | 39.70 | 33.40 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 1:04:39 | 40.03 | 33.73 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:39 | 40.35 | 34.05 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:39 | 40.68 | 34.38 | 1,059 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:40 | 41.01 | 34.71 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 1:04:41 | 41.34 | 35.04 | 1,052 | 1.73 | 0.21 | 57.5 |
| 4/21/2015 1:04:40 | 41.67 | 35.37 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:41 | 41.99 | 35.69 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:42 | 42.32 | 36.02 | 1,046 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:42 | 42.65 | 36.35 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:42 | 42.98 | 36.68 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:04:43 | 43.31 | 37.01 | 1,056 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:04:43 | 43.64 | 37.34 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:43 | 43.96 | 37.66 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:44 | 44.29 | 37.99 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:44 | 44.62 | 38.32 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:44 | 44.95 | 38.65 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:45 | 45.28 | 38.98 | 1,050 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:45 | 45.60 | 39.30 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:45 | 45.93 | 39.63 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:45 | 46.26 | 39.96 | 1,048 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:46 | 46.59 | 40.29 | 1,045 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:46 | 46.92 | 40.62 | 1,045 | 1.73 | 0.21 | 57.2 |
| 4/21/2015 1:04:46 | 47.24 | 40.94 | 1,039 | 1.73 | 0.21 | 56.8 |
| 4/21/2015 1:04:47 | 47.57 | 41.27 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:47 | 47.90 | 41.60 | 1,058 | 1.73 | 0.21 | 57.9 |
| 4/21/2015 1:04:47 | 48.23 | 41.93 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 1:04:48 | 48.56 | 42.26 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:48 | 48.88 | 42.58 | 1,047 | 1.73 | 0.21 | 57.3 |
| 4/21/2015 1:04:48 | 49.21 | 42.91 | 1,054 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 1:04:49 | 49.54 | 43.24 | 1,069 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:04:49 | 49.87 | 43.57 | 1,069 | 1.73 | 0.21 | 58.4 |
| 4/21/2015 1:04:49 | 50.20 | 43.90 | 1,053 | 1.73 | 0.21 | 57.6 |
| 4/21/2015 1:04:50 | 50.53 | 44.23 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:50 | 50.85 | 44.55 | 1,049 | 1.73 | 0.21 | 57.4 |
| 4/21/2015 1:04:50 | 51.18 | 44.88 | 1,055 | 1.73 | 0.21 | 57.7 |
| 4/21/2015 1:04:51 | 51.51 | 45.21 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 1:04:51 | 51.84 | 45.54 | 1,043 | 1.73 | 0.21 | 57.1 |
| 4/21/2015 1:05:06 | 52.17 | 45.87 | 34 | 1.73 | 0.21 | 1.9 |
| 4/21/2015 1:05:07 | 52.49 | 46.19 | 198 | 1.73 | 0.21 | 10.8 |
| 4/21/2015 1:05:13 | 52.82 | 46.52 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:05:19 | 53.15 | 46.85 | 29 | 1.73 | 0.21 | 1.6 |
| 4/21/2015 1:05:21 | 53.48 | 47.18 | 125 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 1:05:24 | 53.81 | 47.51 | 124 | 1.73 | 0.21 | 6.8 |
| 4/21/2015 1:05:41 | 54.13 | 47.83 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 1:05:42 | 54.46 | 48.16 | 153 | 1.73 | 0.21 | 8.3 |
| 4/21/2015 1:05:51 | 54.79 | 48.49 | 0 | 1.73 | 0.21 | 0.0 |
| 4/21/2015 1:05:52 | 55.12 | 48.82 | 159 | 1.73 | 0.21 | 8.7 |
| 4/21/2015 1:05:53 | 55.45 | 49.15 | 262 | 1.73 | 0.21 | 14.3 |
| 4/21/2015 1:05:55 | 55.77 | 49.47 | 255 | 1.73 | 0.21 | 13.9 |
| 4/21/2015 1:05:58 | 56.10 | 49.80 | 115 | 1.73 | 0.21 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 1:06:01 | 56.43 | 50.13 | 112 | 1.73 | 0.21 | 6.1 |
| 4/21/2015 | 1:06:04 | 56.76 | 50.46 | 146 | 1.73 | 0.21 | 8.0 |
| 4/21/2015 | 1:06:06 | 57.09 | 50.79 | 128 | 1.73 | 0.21 | 7.0 |
| 4/21/2015 | 1:06:10 | 57.41 | 51.11 | 87 | 1.73 | 0.21 | 4.7 |
| 4/21/2015 | 1:06:15 | 57.74 | 51.44 | 81 | 1.73 | 0.21 | 4.4 |
| 4/21/2015 | 1:06:20 | 58.07 | 51.77 | 55 | 1.73 | 0.21 | 3.0 |
| 4/21/2015 | 1:06:25 | 58.40 | 52.10 | 99 | 1.73 | 0.21 | 5.4 |
| 4/21/2015 | 1:06:29 | 58.73 | 52.43 | 93 | 1.73 | 0.21 | 5.1 |
| 4/21/2015 | 1:06:33 | 59.06 | 52.76 | 84 | 1.73 | 0.21 | 4.6 |
| 4/21/2015 | 1:06:44 | 59.38 | 53.08 | 32 | 1.73 | 0.21 | 1.7 |
| 4/21/2015 | 1:06:49 | 59.71 | 53.41 | 79 | 1.73 | 0.21 | 4.3 |
| 4/21/2015 | 1:06:52 | 60.04 | 53.74 | 96 | 1.73 | 0.21 | 5.2 |
| 4/21/2015 | 1:06:55 | 60.37 | 54.07 | 154 | 1.73 | 0.21 | 8.4 |
| 4/21/2015 | 1:06:56 | 60.70 | 54.40 | 210 | 1.73 | 0.21 | 11.5 |
| 4/21/2015 | 1:06:57 | 61.02 | 54.72 | 303 | 1.73 | 0.21 | 16.6 |
| 4/21/2015 | 1:06:59 | 61.33 | 55.03 | 293 | 1.73 | 0.21 | 16.0 |

## E81 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 1:00:12

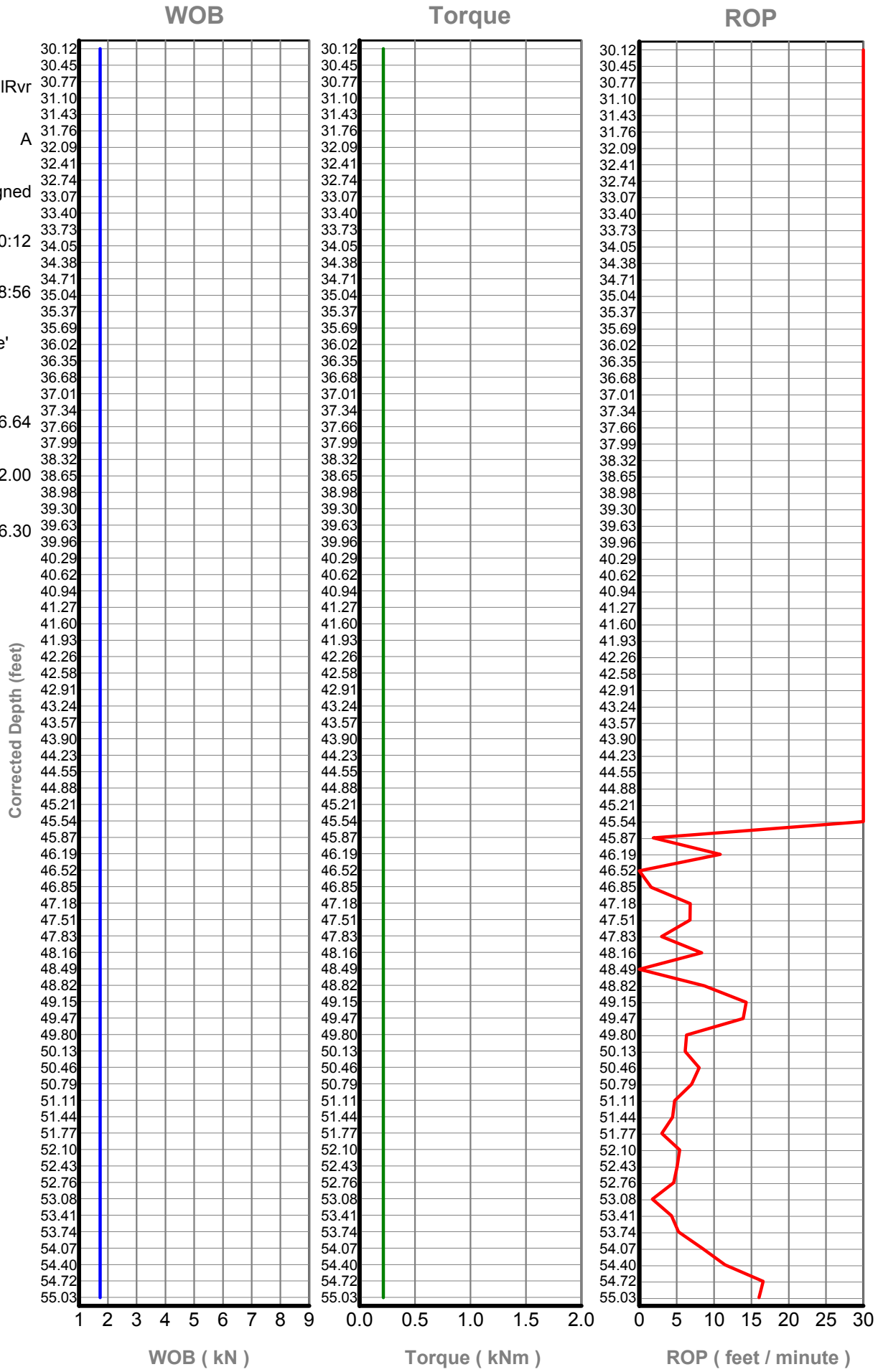
**End Date:**
4/21/2015 1:08:56

**Operator Note:**
'6.3 6.3 b Auto Complete'

**Northing:**
368,626.64

**Easting:**
253,192.00

**Tide (feet):**
6.30



## Hole: E82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 0:52:53 | 36.42 | 30.22 | 342 | 1.36 | 0.14 | 18.7 |
| 4/21/2015 0:52:54 | 36.75 | 30.55 | 344 | 1.52 | 0.14 | 18.8 |
| 4/21/2015 0:52:55 | 37.07 | 30.87 | 336 | 1.39 | 0.14 | 18.4 |
| 4/21/2015 0:52:56 | 37.40 | 31.20 | 346 | 1.48 | 0.14 | 18.9 |
| 4/21/2015 0:52:57 | 37.73 | 31.53 | 341 | 1.51 | 0.14 | 18.6 |
| 4/21/2015 0:52:58 | 38.06 | 31.86 | 344 | 1.50 | 0.14 | 18.8 |
| 4/21/2015 0:52:59 | 38.39 | 32.19 | 344 | 1.44 | 0.14 | 18.8 |
| 4/21/2015 0:53:00 | 38.71 | 32.51 | 350 | 1.50 | 0.14 | 19.1 |
| 4/21/2015 0:53:01 | 39.04 | 32.84 | 345 | 1.49 | 0.14 | 18.9 |
| 4/21/2015 0:53:02 | 39.37 | 33.17 | 344 | 1.51 | 0.14 | 18.8 |
| 4/21/2015 0:53:03 | 39.70 | 33.50 | 344 | 1.53 | 0.14 | 18.8 |
| 4/21/2015 0:53:04 | 40.03 | 33.83 | 350 | 1.53 | 0.13 | 19.1 |
| 4/21/2015 0:53:05 | 40.35 | 34.15 | 345 | 1.47 | 0.14 | 18.9 |
| 4/21/2015 0:53:06 | 40.68 | 34.48 | 341 | 1.51 | 0.13 | 18.7 |
| 4/21/2015 0:53:08 | 41.01 | 34.81 | 341 | 1.49 | 0.13 | 18.7 |
| 4/21/2015 0:53:09 | 41.34 | 35.14 | 344 | 1.43 | 0.13 | 18.8 |
| 4/21/2015 0:53:10 | 41.67 | 35.47 | 347 | 1.45 | 0.14 | 19.0 |
| 4/21/2015 0:53:11 | 41.99 | 35.79 | 345 | 1.48 | 0.13 | 18.9 |
| 4/21/2015 0:53:12 | 42.32 | 36.12 | 350 | 1.49 | 0.14 | 19.1 |
| 4/21/2015 0:53:13 | 42.65 | 36.45 | 347 | 1.54 | 0.13 | 19.0 |
| 4/21/2015 0:53:14 | 42.98 | 36.78 | 344 | 1.40 | 0.14 | 18.8 |
| 4/21/2015 0:53:15 | 43.31 | 37.11 | 341 | 1.52 | 0.14 | 18.6 |
| 4/21/2015 0:53:16 | 43.64 | 37.44 | 342 | 1.51 | 0.14 | 18.7 |
| 4/21/2015 0:53:17 | 43.96 | 37.76 | 341 | 1.44 | 0.14 | 18.7 |
| 4/21/2015 0:53:18 | 44.29 | 38.09 | 341 | 1.51 | 0.13 | 18.7 |
| 4/21/2015 0:53:19 | 44.62 | 38.42 | 341 | 1.52 | 0.13 | 18.7 |
| 4/21/2015 0:53:20 | 44.95 | 38.75 | 339 | 1.38 | 0.13 | 18.5 |
| 4/21/2015 0:53:21 | 45.28 | 39.08 | 338 | 1.49 | 0.14 | 18.5 |
| 4/21/2015 0:53:22 | 45.60 | 39.40 | 338 | 1.37 | 0.14 | 18.5 |
| 4/21/2015 0:53:23 | 45.93 | 39.73 | 341 | 1.44 | 0.13 | 18.7 |
| 4/21/2015 0:53:24 | 46.26 | 40.06 | 336 | 1.38 | 0.14 | 18.4 |
| 4/21/2015 0:53:25 | 46.59 | 40.39 | 341 | 1.37 | 0.14 | 18.7 |
| 4/21/2015 0:53:26 | 46.92 | 40.72 | 338 | 1.49 | 0.14 | 18.5 |
| 4/21/2015 0:53:28 | 47.24 | 41.04 | 335 | 1.53 | 0.14 | 18.3 |
| 4/21/2015 0:53:29 | 47.57 | 41.37 | 334 | 1.49 | 0.14 | 18.3 |
| 4/21/2015 0:53:30 | 47.90 | 41.70 | 332 | 1.45 | 0.14 | 18.1 |
| 4/21/2015 0:53:31 | 48.23 | 42.03 | 337 | 1.45 | 0.14 | 18.5 |
| 4/21/2015 0:53:32 | 48.56 | 42.36 | 336 | 1.52 | 0.13 | 18.4 |
| 4/21/2015 0:53:33 | 48.88 | 42.68 | 336 | 1.44 | 0.14 | 18.4 |
| 4/21/2015 0:53:34 | 49.21 | 43.01 | 344 | 1.40 | 0.13 | 18.8 |
| 4/21/2015 0:53:35 | 49.54 | 43.34 | 340 | 1.28 | 0.14 | 18.6 |
| 4/21/2015 0:53:36 | 49.87 | 43.67 | 343 | 1.51 | 0.14 | 18.7 |
| 4/21/2015 0:53:37 | 50.20 | 44.00 | 333 | 1.47 | 0.14 | 18.2 |
| 4/21/2015 0:53:38 | 50.53 | 44.33 | 329 | 1.51 | 0.14 | 18.0 |
| 4/21/2015 0:53:39 | 50.85 | 44.65 | 335 | 1.49 | 0.14 | 18.3 |
| 4/21/2015 0:53:40 | 51.18 | 44.98 | 338 | 1.51 | 0.14 | 18.5 |
| 4/21/2015 0:53:41 | 51.51 | 45.31 | 339 | 1.38 | 0.13 | 18.5 |
| 4/21/2015 0:53:42 | 51.84 | 45.64 | 344 | 1.54 | 0.13 | 18.8 |
| 4/21/2015 0:54:37 | 52.17 | 45.97 | 44 | 1.62 | 1.29 | 2.4 |
| 4/21/2015 0:54:53 | 52.49 | 46.29 | 23 | 1.58 | 1.09 | 1.3 |
| 4/21/2015 0:54:55 | 52.82 | 46.62 | 145 | 1.59 | 1.02 | 7.9 |
| 4/21/2015 0:55:00 | 53.15 | 46.95 | 0 | 1.57 | 1.00 | 0.0 |
| 4/21/2015 0:55:03 | 53.48 | 47.28 | 167 | 1.64 | 1.37 | 9.1 |
| 4/21/2015 0:55:10 | 53.81 | 47.61 | 85 | 1.62 | 1.18 | 4.6 |
| 4/21/2015 0:55:22 | 54.13 | 47.93 | 17 | 1.63 | 1.33 | 0.9 |
| 4/21/2015 0:55:25 | 54.46 | 48.26 | 129 | 1.67 | 1.07 | 7.1 |
| 4/21/2015 0:55:35 | 54.79 | 48.59 | 105 | 1.64 | 1.15 | 5.7 |
| 4/21/2015 0:55:52 | 55.12 | 48.92 | 20 | 1.62 | 1.06 | 1.1 |
| 4/21/2015 0:55:55 | 55.45 | 49.25 | 131 | 1.66 | 1.15 | 7.2 |
| 4/21/2015 0:56:13 | 55.77 | 49.57 | 3 | 1.63 | 1.12 | 0.2 |
| 4/21/2015 0:56:18 | 56.10 | 49.90 | 104 | 1.70 | 1.14 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/21/2015 | 0:56:22 | 56.43 | 50.23 | 101 | 1.70 | 1.14 | 5.5 |
| 4/21/2015 | 0:56:25 | 56.76 | 50.56 | 109 | 1.70 | 1.15 | 5.9 |
| 4/21/2015 | 0:56:28 | 57.09 | 50.89 | 113 | 1.70 | 1.10 | 6.2 |
| 4/21/2015 | 0:56:32 | 57.41 | 51.21 | 107 | 1.72 | 1.16 | 5.9 |
| 4/21/2015 | 0:56:35 | 57.74 | 51.54 | 103 | 1.70 | 1.13 | 5.6 |
| 4/21/2015 | 0:57:00 | 58.07 | 51.87 | 0 | 1.71 | 1.12 | 0.0 |
| 4/21/2015 | 0:57:03 | 58.40 | 52.20 | 116 | 1.70 | 1.12 | 6.3 |
| 4/21/2015 | 0:57:07 | 58.73 | 52.53 | 110 | 1.70 | 1.18 | 6.0 |
| 4/21/2015 | 0:57:10 | 59.06 | 52.86 | 107 | 1.70 | 1.17 | 5.8 |
| 4/21/2015 | 0:57:14 | 59.38 | 53.18 | 94 | 1.69 | 1.14 | 5.1 |
| 4/21/2015 | 0:57:17 | 59.71 | 53.51 | 119 | 1.68 | 1.12 | 6.5 |
| 4/21/2015 | 0:57:20 | 60.04 | 53.84 | 129 | 1.70 | 1.18 | 7.1 |
| 4/21/2015 | 0:57:23 | 60.37 | 54.17 | 119 | 1.70 | 1.17 | 6.5 |
| 4/21/2015 | 0:57:26 | 60.70 | 54.50 | 116 | 1.68 | 1.15 | 6.3 |
| 4/21/2015 | 0:57:29 | 61.02 | 54.82 | 118 | 1.65 | 1.20 | 6.4 |

## E82 - Summary

**Pattern Number:**
AreaE_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 0:48:44

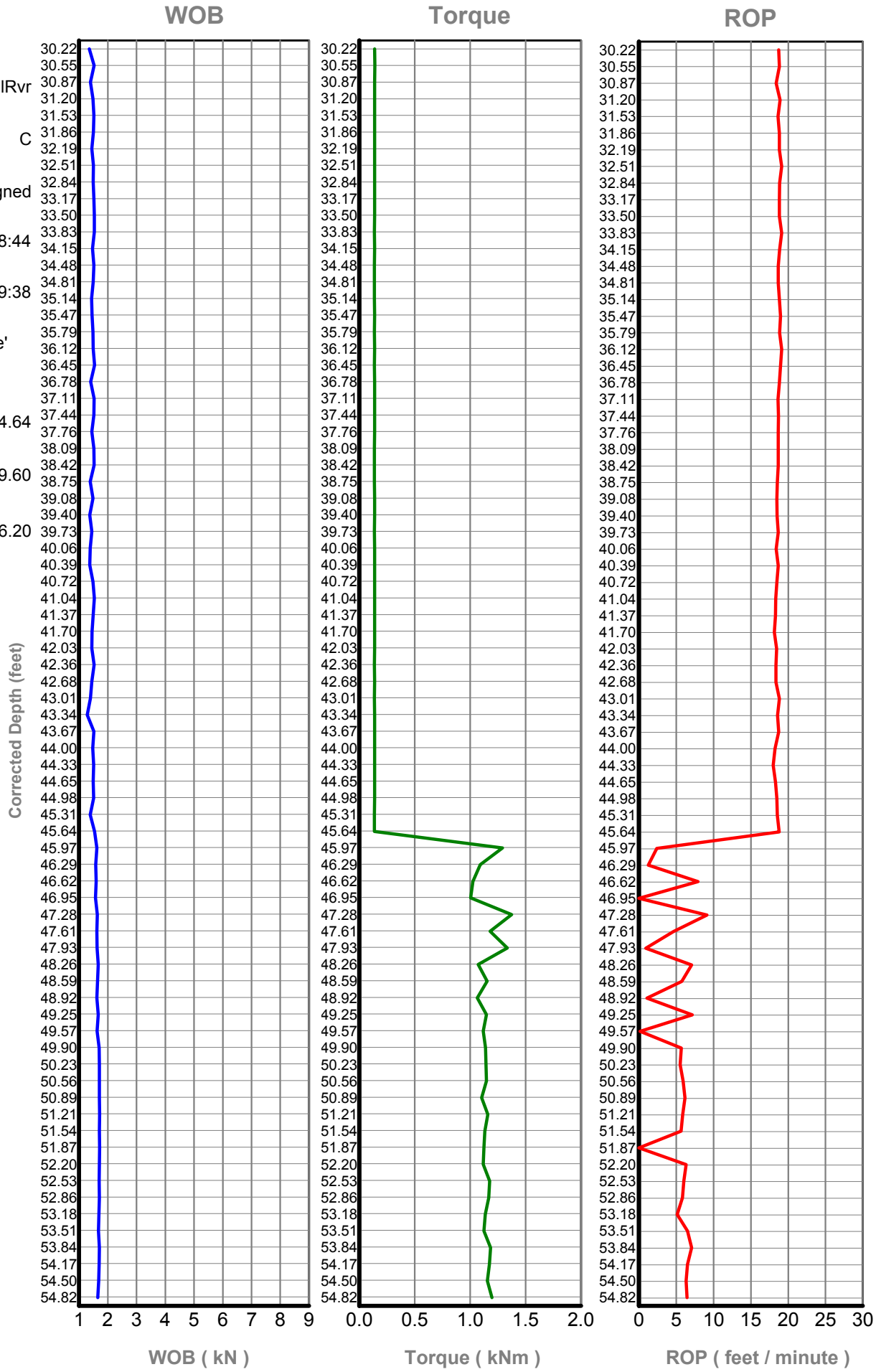
**End Date:**
4/21/2015 0:59:38

**Operator Note:**
'6.2 6.0 c Auto Complete'

**Northing:**
368,674.64

**Easting:**
253,249.60

**Tide (feet):**
6.20



## Hole: E83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:36:56 | 35.76 | 30.16 | 1,079 | 0.25 | 0.32 | 59.0 |
| 4/20/2015 16:36:56 | 36.09 | 30.49 | 1,064 | 0.32 | 0.32 | 58.2 |
| 4/20/2015 16:36:56 | 36.42 | 30.82 | 1,064 | 0.32 | 0.32 | 58.2 |
| 4/20/2015 16:36:56 | 36.75 | 31.15 | 1,067 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:36:57 | 37.07 | 31.47 | 1,069 | 0.20 | 0.32 | 58.5 |
| 4/20/2015 16:36:57 | 37.40 | 31.80 | 1,069 | 0.20 | 0.32 | 58.5 |
| 4/20/2015 16:36:57 | 37.73 | 32.13 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/20/2015 16:36:58 | 38.06 | 32.46 | 1,072 | 0.27 | 0.31 | 58.6 |
| 4/20/2015 16:36:58 | 38.39 | 32.79 | 1,072 | 0.27 | 0.31 | 58.6 |
| 4/20/2015 16:36:58 | 38.71 | 33.11 | 1,078 | 0.27 | 0.32 | 59.0 |
| 4/20/2015 16:36:59 | 39.04 | 33.44 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 16:36:59 | 39.37 | 33.77 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 16:36:59 | 39.70 | 34.10 | 1,084 | 0.28 | 0.31 | 59.3 |
| 4/20/2015 16:37:00 | 40.03 | 34.43 | 1,084 | 0.28 | 0.31 | 59.3 |
| 4/20/2015 16:37:00 | 40.35 | 34.75 | 1,081 | 0.27 | 0.31 | 59.1 |
| 4/20/2015 16:37:00 | 40.68 | 35.08 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/20/2015 16:37:01 | 41.01 | 35.41 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/20/2015 16:37:01 | 41.34 | 35.74 | 1,073 | 0.31 | 0.32 | 58.7 |
| 4/20/2015 16:37:01 | 41.67 | 36.07 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/20/2015 16:37:02 | 41.99 | 36.39 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/20/2015 16:37:02 | 42.32 | 36.72 | 1,070 | 0.28 | 0.31 | 58.5 |
| 4/20/2015 16:37:02 | 42.65 | 37.05 | 1,070 | 0.28 | 0.32 | 58.5 |
| 4/20/2015 16:37:03 | 42.98 | 37.38 | 1,070 | 0.28 | 0.32 | 58.5 |
| 4/20/2015 16:37:03 | 43.31 | 37.71 | 1,066 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:37:03 | 43.64 | 38.04 | 1,066 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:37:03 | 43.96 | 38.36 | 1,081 | 0.27 | 0.32 | 59.1 |
| 4/20/2015 16:37:04 | 44.29 | 38.69 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 16:37:04 | 44.62 | 39.02 | 1,075 | 0.28 | 0.31 | 58.8 |
| 4/20/2015 16:37:04 | 44.95 | 39.35 | 1,075 | 0.28 | 0.32 | 58.8 |
| 4/20/2015 16:37:05 | 45.28 | 39.68 | 1,073 | 0.28 | 0.32 | 58.7 |
| 4/20/2015 16:37:06 | 45.60 | 40.00 | 1,073 | 0.28 | 0.32 | 58.7 |
| 4/20/2015 16:37:06 | 45.93 | 40.33 | 1,067 | 0.28 | 0.31 | 58.3 |
| 4/20/2015 16:37:06 | 46.26 | 40.66 | 1,061 | 0.28 | 0.32 | 58.0 |
| 4/20/2015 16:37:07 | 46.59 | 40.99 | 1,061 | 0.28 | 0.32 | 58.0 |
| 4/20/2015 16:37:07 | 46.92 | 41.32 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/20/2015 16:37:07 | 47.24 | 41.64 | 1,054 | 0.28 | 0.32 | 57.7 |
| 4/20/2015 16:37:08 | 47.57 | 41.97 | 1,054 | 0.28 | 0.32 | 57.7 |
| 4/20/2015 16:37:08 | 47.90 | 42.30 | 1,067 | 0.27 | 0.32 | 58.3 |
| 4/20/2015 16:37:08 | 48.23 | 42.63 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/20/2015 16:37:09 | 48.56 | 42.96 | 1,061 | 0.27 | 0.32 | 58.0 |
| 4/20/2015 16:37:09 | 48.88 | 43.28 | 1,062 | 0.27 | 0.31 | 58.0 |
| 4/20/2015 16:37:09 | 49.21 | 43.61 | 1,062 | 0.27 | 0.31 | 58.0 |
| 4/20/2015 16:37:09 | 49.54 | 43.94 | 1,062 | 0.28 | 0.31 | 58.0 |
| 4/20/2015 16:37:10 | 49.87 | 44.27 | 1,068 | 0.28 | 0.32 | 58.4 |
| 4/20/2015 16:37:10 | 50.20 | 44.60 | 1,068 | 0.28 | 0.32 | 58.4 |
| 4/20/2015 16:37:25 | 50.53 | 44.93 | 15 | 2.58 | 0.38 | 0.8 |
| 4/20/2015 16:37:29 | 50.85 | 45.25 | 72 | 3.78 | 0.40 | 3.9 |
| 4/20/2015 16:37:34 | 51.18 | 45.58 | 55 | 4.01 | 0.38 | 3.0 |
| 4/20/2015 16:37:39 | 51.51 | 45.91 | 83 | 3.92 | 0.31 | 4.6 |
| 4/20/2015 16:37:43 | 51.84 | 46.24 | 81 | 3.61 | 0.40 | 4.4 |
| 4/20/2015 16:37:48 | 52.17 | 46.57 | 82 | 3.99 | 0.40 | 4.5 |
| 4/20/2015 16:37:51 | 52.49 | 46.89 | 95 | 3.63 | 0.38 | 5.2 |
| 4/20/2015 16:37:55 | 52.82 | 47.22 | 81 | 4.65 | 0.39 | 4.4 |
| 4/20/2015 16:38:01 | 53.15 | 47.55 | 78 | 3.65 | 0.39 | 4.3 |
| 4/20/2015 16:38:05 | 53.48 | 47.88 | 77 | 3.80 | 0.39 | 4.2 |
| 4/20/2015 16:38:09 | 53.81 | 48.21 | 81 | 3.52 | 0.39 | 4.4 |
| 4/20/2015 16:38:13 | 54.13 | 48.53 | 86 | 3.98 | 0.40 | 4.7 |
| 4/20/2015 16:38:17 | 54.46 | 48.86 | 90 | 4.25 | 0.41 | 4.9 |
| 4/20/2015 16:38:22 | 54.79 | 49.19 | 95 | 4.13 | 0.40 | 5.2 |
| 4/20/2015 16:38:26 | 55.12 | 49.52 | 78 | 3.86 | 0.39 | 4.2 |
| 4/20/2015 16:38:31 | 55.45 | 49.85 | 78 | 4.07 | 0.39 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:38:35 | 55.77 | 50.17 | 63 | 3.44 | 0.39 | 3.5 |
| 4/20/2015 | 16:38:41 | 56.10 | 50.50 | 72 | 3.64 | 0.40 | 3.9 |
| 4/20/2015 | 16:38:46 | 56.43 | 50.83 | 69 | 2.97 | 0.40 | 3.8 |
| 4/20/2015 | 16:38:51 | 56.76 | 51.16 | 69 | 4.04 | 0.40 | 3.8 |
| 4/20/2015 | 16:38:56 | 57.09 | 51.49 | 62 | 3.88 | 0.40 | 3.4 |
| 4/20/2015 | 16:39:02 | 57.41 | 51.81 | 66 | 3.54 | 0.40 | 3.6 |
| 4/20/2015 | 16:39:06 | 57.68 | 52.08 | 62 | 3.51 | 0.40 | 3.4 |

## E83 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:34:31

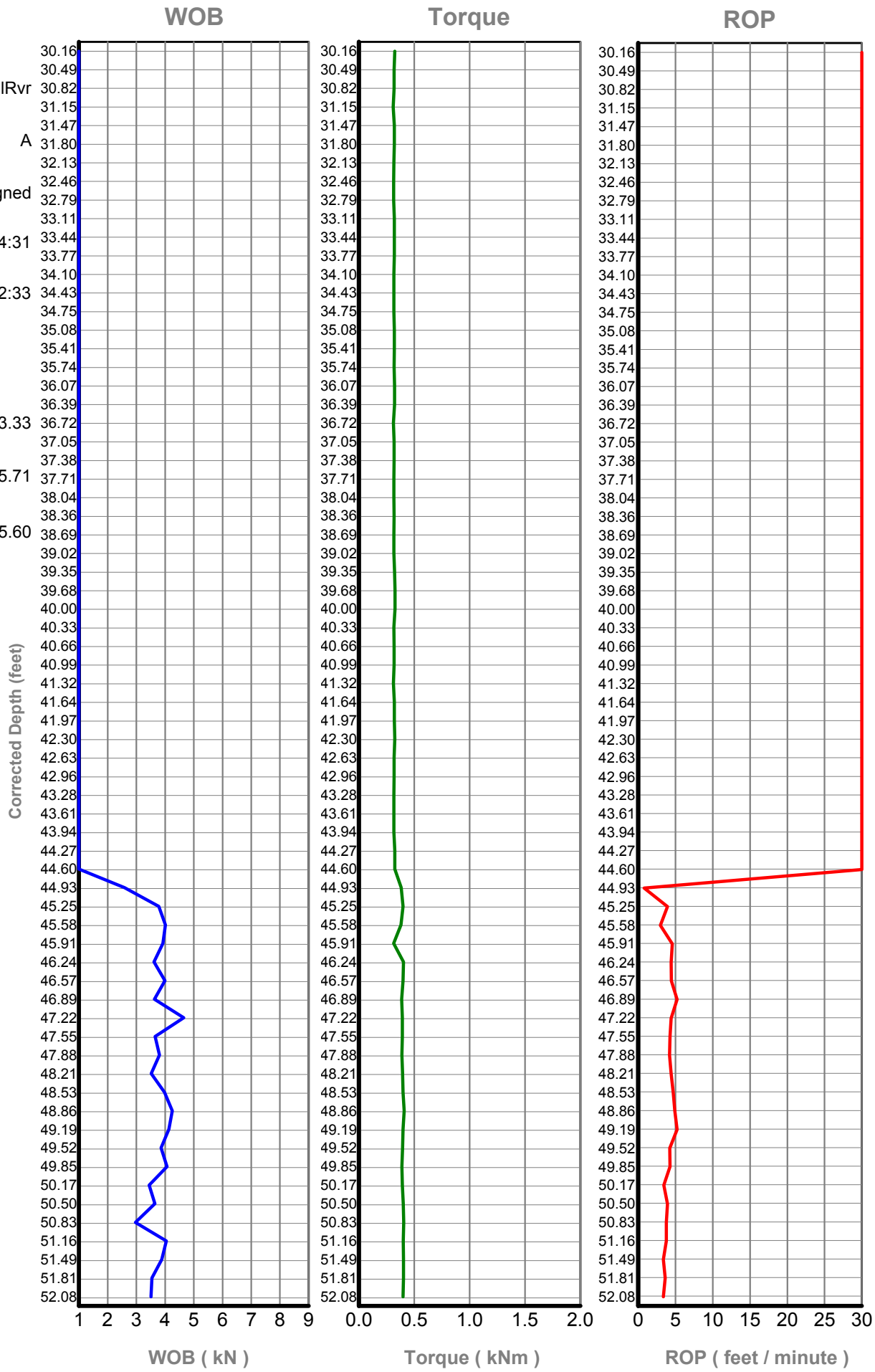
**End Date:**
4/20/2015 16:42:33

**Operator Note:**
'5.6 5.9 b Rock'

**Northing:**
368,713.33

**Easting:**
253,305.71

**Tide (feet):**
5.60



## Hole: E84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:31:08 | 35.76 | 30.06 | 1,091 | 0.28 | 0.31 | 59.6 |
| 4/20/2015 16:31:08 | 36.09 | 30.39 | 1,109 | 0.27 | 0.32 | 60.6 |
| 4/20/2015 16:31:08 | 36.42 | 30.72 | 1,108 | 0.27 | 0.30 | 60.6 |
| 4/20/2015 16:31:09 | 36.75 | 31.05 | 1,108 | 0.27 | 0.30 | 60.6 |
| 4/20/2015 16:31:09 | 37.07 | 31.37 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/20/2015 16:31:09 | 37.40 | 31.70 | 1,099 | 0.28 | 0.25 | 60.1 |
| 4/20/2015 16:31:10 | 37.73 | 32.03 | 1,099 | 0.28 | 0.25 | 60.1 |
| 4/20/2015 16:31:10 | 38.06 | 32.36 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/20/2015 16:31:11 | 38.39 | 32.69 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/20/2015 16:31:10 | 38.71 | 33.01 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/20/2015 16:31:11 | 39.04 | 33.34 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:31:12 | 39.37 | 33.67 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:31:12 | 39.70 | 34.00 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/20/2015 16:31:12 | 40.03 | 34.33 | 1,092 | 0.27 | 0.32 | 59.7 |
| 4/20/2015 16:31:13 | 40.35 | 34.65 | 1,092 | 0.27 | 0.32 | 59.7 |
| 4/20/2015 16:31:13 | 40.68 | 34.98 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/20/2015 16:31:13 | 41.01 | 35.31 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/20/2015 16:31:13 | 41.34 | 35.64 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/20/2015 16:31:14 | 41.67 | 35.97 | 1,093 | 0.27 | 0.32 | 59.8 |
| 4/20/2015 16:31:14 | 41.99 | 36.29 | 1,093 | 0.27 | 0.32 | 59.8 |
| 4/20/2015 16:31:14 | 42.32 | 36.62 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/20/2015 16:31:15 | 42.65 | 36.95 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:31:15 | 42.98 | 37.28 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/20/2015 16:31:15 | 43.31 | 37.61 | 1,098 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:31:16 | 43.64 | 37.94 | 1,098 | 0.27 | 0.31 | 60.1 |
| 4/20/2015 16:31:16 | 43.96 | 38.26 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 16:31:16 | 44.29 | 38.59 | 1,089 | 0.27 | 0.32 | 59.6 |
| 4/20/2015 16:31:17 | 44.62 | 38.92 | 1,089 | 0.27 | 0.32 | 59.6 |
| 4/20/2015 16:31:17 | 44.95 | 39.25 | 1,096 | 0.27 | 0.31 | 59.9 |
| 4/20/2015 16:31:17 | 45.28 | 39.58 | 1,084 | 0.27 | 0.32 | 59.3 |
| 4/20/2015 16:31:18 | 45.60 | 39.90 | 1,084 | 0.27 | 0.32 | 59.3 |
| 4/20/2015 16:31:18 | 45.93 | 40.23 | 1,081 | 0.28 | 0.31 | 59.1 |
| 4/20/2015 16:31:18 | 46.26 | 40.56 | 1,081 | 0.27 | 0.31 | 59.1 |
| 4/20/2015 16:31:19 | 46.59 | 40.89 | 1,081 | 0.27 | 0.31 | 59.1 |
| 4/20/2015 16:31:19 | 46.92 | 41.22 | 1,078 | 0.27 | 0.31 | 58.9 |
| 4/20/2015 16:31:19 | 47.24 | 41.54 | 1,078 | 0.27 | 0.31 | 58.9 |
| 4/20/2015 16:31:19 | 47.57 | 41.87 | 1,082 | 0.27 | 0.31 | 59.2 |
| 4/20/2015 16:31:20 | 47.90 | 42.20 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/20/2015 16:31:20 | 48.23 | 42.53 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/20/2015 16:31:20 | 48.56 | 42.86 | 1,078 | 0.28 | 0.31 | 59.0 |
| 4/20/2015 16:31:21 | 48.88 | 43.18 | 1,088 | 0.28 | 0.32 | 59.5 |
| 4/20/2015 16:31:22 | 49.21 | 43.51 | 1,088 | 0.28 | 0.32 | 59.5 |
| 4/20/2015 16:31:22 | 49.54 | 43.84 | 1,088 | 0.27 | 0.32 | 59.5 |
| 4/20/2015 16:31:22 | 49.87 | 44.17 | 1,088 | 0.27 | 0.32 | 59.5 |
| 4/20/2015 16:31:22 | 50.20 | 44.50 | 1,081 | 0.28 | 0.35 | 59.1 |
| 4/20/2015 16:31:44 | 50.53 | 44.83 | 52 | 3.73 | 0.40 | 2.9 |
| 4/20/2015 16:31:49 | 50.85 | 45.15 | 61 | 3.78 | 0.40 | 3.3 |
| 4/20/2015 16:31:55 | 51.18 | 45.48 | 65 | 3.64 | 0.40 | 3.5 |
| 4/20/2015 16:32:00 | 51.51 | 45.81 | 78 | 3.90 | 0.39 | 4.3 |
| 4/20/2015 16:32:05 | 51.84 | 46.14 | 69 | 3.42 | 0.40 | 3.8 |
| 4/20/2015 16:32:10 | 52.17 | 46.47 | 69 | 4.53 | 0.41 | 3.8 |
| 4/20/2015 16:32:15 | 52.49 | 46.79 | 69 | 3.77 | 0.39 | 3.8 |
| 4/20/2015 16:32:20 | 52.82 | 47.12 | 69 | 3.88 | 0.40 | 3.8 |
| 4/20/2015 16:32:24 | 53.06 | 47.36 | 69 | 3.51 | 0.40 | 3.8 |

## E84 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:29:19

**End Date:**
4/20/2015 16:33:52

**Operator Note:**
'5.7 5.9 b Auto Complete'

**Northing:**
368,749.58

**Easting:**
253,350.27

**Tide (feet):**
5.70



## Hole: E85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 16:34:23 | 35.76 | 30.06 | 383 | 1.43 | 0.25 | 21.0 |
| 4/20/2015 16:34:24 | 36.09 | 30.39 | 385 | 1.42 | 0.25 | 21.1 |
| 4/20/2015 16:34:25 | 36.42 | 30.72 | 381 | 1.40 | 0.23 | 20.8 |
| 4/20/2015 16:34:26 | 36.75 | 31.05 | 381 | 1.42 | 0.25 | 20.9 |
| 4/20/2015 16:34:27 | 37.07 | 31.37 | 379 | 1.36 | 0.25 | 20.7 |
| 4/20/2015 16:34:28 | 37.40 | 31.70 | 385 | 1.41 | 0.25 | 21.1 |
| 4/20/2015 16:34:29 | 37.73 | 32.03 | 385 | 1.42 | 0.25 | 21.1 |
| 4/20/2015 16:34:30 | 38.06 | 32.36 | 384 | 1.41 | 0.25 | 21.0 |
| 4/20/2015 16:34:31 | 38.39 | 32.69 | 372 | 1.47 | 0.25 | 20.3 |
| 4/20/2015 16:34:32 | 38.71 | 33.01 | 375 | 1.46 | 0.25 | 20.5 |
| 4/20/2015 16:34:32 | 39.04 | 33.34 | 383 | 1.40 | 0.25 | 20.9 |
| 4/20/2015 16:34:33 | 39.37 | 33.67 | 380 | 1.44 | 0.24 | 20.8 |
| 4/20/2015 16:34:35 | 39.70 | 34.00 | 387 | 1.44 | 0.25 | 21.2 |
| 4/20/2015 16:34:36 | 40.03 | 34.33 | 379 | 1.49 | 0.25 | 20.7 |
| 4/20/2015 16:34:36 | 40.35 | 34.65 | 382 | 1.47 | 0.25 | 20.9 |
| 4/20/2015 16:34:37 | 40.68 | 34.98 | 382 | 1.38 | 0.25 | 20.9 |
| 4/20/2015 16:34:38 | 41.01 | 35.31 | 378 | 1.45 | 0.25 | 20.7 |
| 4/20/2015 16:34:39 | 41.34 | 35.64 | 379 | 1.43 | 0.25 | 20.7 |
| 4/20/2015 16:34:40 | 41.67 | 35.97 | 374 | 1.38 | 0.25 | 20.4 |
| 4/20/2015 16:34:41 | 41.99 | 36.29 | 376 | 1.48 | 0.25 | 20.6 |
| 4/20/2015 16:34:42 | 42.32 | 36.62 | 379 | 1.42 | 0.25 | 20.7 |
| 4/20/2015 16:34:43 | 42.65 | 36.95 | 382 | 1.41 | 0.25 | 20.9 |
| 4/20/2015 16:34:44 | 42.98 | 37.28 | 379 | 1.49 | 0.25 | 20.7 |
| 4/20/2015 16:34:45 | 43.31 | 37.61 | 379 | 1.47 | 0.25 | 20.7 |
| 4/20/2015 16:34:46 | 43.64 | 37.94 | 382 | 1.43 | 0.25 | 20.9 |
| 4/20/2015 16:34:47 | 43.96 | 38.26 | 382 | 1.53 | 0.25 | 20.9 |
| 4/20/2015 16:34:48 | 44.29 | 38.59 | 382 | 1.43 | 0.25 | 20.9 |
| 4/20/2015 16:34:49 | 44.62 | 38.92 | 372 | 1.47 | 0.25 | 20.4 |
| 4/20/2015 16:34:50 | 44.95 | 39.25 | 380 | 1.51 | 0.25 | 20.8 |
| 4/20/2015 16:34:51 | 45.28 | 39.58 | 373 | 1.43 | 0.25 | 20.4 |
| 4/20/2015 16:34:51 | 45.60 | 39.90 | 373 | 1.50 | 0.25 | 20.4 |
| 4/20/2015 16:34:52 | 45.93 | 40.23 | 373 | 1.46 | 0.25 | 20.4 |
| 4/20/2015 16:34:53 | 46.26 | 40.56 | 374 | 1.52 | 0.25 | 20.5 |
| 4/20/2015 16:34:54 | 46.59 | 40.89 | 381 | 1.47 | 0.25 | 20.8 |
| 4/20/2015 16:34:56 | 46.92 | 41.22 | 382 | 1.49 | 0.25 | 20.9 |
| 4/20/2015 16:34:56 | 47.24 | 41.54 | 382 | 1.38 | 0.25 | 20.9 |
| 4/20/2015 16:34:57 | 47.57 | 41.87 | 379 | 1.47 | 0.25 | 20.7 |
| 4/20/2015 16:34:58 | 47.90 | 42.20 | 382 | 1.38 | 0.25 | 20.9 |
| 4/20/2015 16:34:59 | 48.23 | 42.53 | 379 | 1.56 | 0.25 | 20.7 |
| 4/20/2015 16:35:00 | 48.56 | 42.86 | 374 | 1.42 | 0.25 | 20.4 |
| 4/20/2015 16:35:01 | 48.88 | 43.18 | 377 | 1.49 | 0.25 | 20.6 |
| 4/20/2015 16:35:02 | 49.21 | 43.51 | 379 | 1.54 | 0.25 | 20.7 |
| 4/20/2015 16:35:03 | 49.54 | 43.84 | 384 | 1.47 | 0.25 | 21.0 |
| 4/20/2015 16:35:04 | 49.87 | 44.17 | 372 | 1.46 | 0.25 | 20.4 |
| 4/20/2015 16:35:05 | 50.20 | 44.50 | 375 | 1.75 | 0.25 | 20.5 |
| 4/20/2015 16:35:21 | 50.53 | 44.83 | 6 | 1.79 | 0.85 | 0.3 |
| 4/20/2015 16:35:23 | 50.85 | 45.15 | 199 | 1.83 | 1.05 | 10.9 |
| 4/20/2015 16:35:25 | 51.18 | 45.48 | 198 | 1.91 | 1.16 | 10.8 |
| 4/20/2015 16:35:27 | 51.51 | 45.81 | 159 | 1.93 | 1.17 | 8.7 |
| 4/20/2015 16:35:30 | 51.84 | 46.14 | 115 | 1.92 | 1.20 | 6.3 |
| 4/20/2015 16:35:33 | 52.17 | 46.47 | 136 | 1.91 | 1.22 | 7.4 |
| 4/20/2015 16:35:36 | 52.49 | 46.79 | 110 | 1.91 | 1.19 | 6.0 |
| 4/20/2015 16:35:40 | 52.82 | 47.12 | 93 | 1.93 | 1.19 | 5.1 |
| 4/20/2015 16:35:43 | 53.15 | 47.45 | 112 | 1.91 | 1.16 | 6.1 |
| 4/20/2015 16:35:46 | 53.48 | 47.78 | 116 | 1.92 | 1.17 | 6.3 |
| 4/20/2015 16:35:49 | 53.81 | 48.11 | 130 | 1.92 | 1.11 | 7.1 |
| 4/20/2015 16:35:51 | 54.13 | 48.43 | 168 | 1.89 | 1.09 | 9.2 |
| 4/20/2015 16:35:53 | 54.46 | 48.76 | 167 | 1.91 | 1.11 | 9.1 |
| 4/20/2015 16:35:56 | 54.79 | 49.09 | 93 | 1.91 | 1.05 | 5.1 |
| 4/20/2015 16:36:02 | 55.12 | 49.42 | 52 | 1.94 | 1.13 | 2.9 |
| 4/20/2015 16:36:10 | 55.45 | 49.75 | 50 | 1.93 | 1.12 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 16:36:17 | 55.77 | 50.07 | 43 | 1.94 | 1.11 | 2.4 |
| 4/20/2015 | 16:36:25 | 56.10 | 50.40 | 42 | 1.95 | 1.19 | 2.3 |
| 4/20/2015 | 16:36:34 | 56.43 | 50.73 | 36 | 1.95 | 1.04 | 2.0 |
| 4/20/2015 | 16:36:40 | 56.65 | 50.95 | 38 | 1.90 | 1.18 | 2.1 |

## E85 - Summary

**Pattern Number:**
AreaE_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/20/2015 16:31:48

**End Date:**
4/20/2015 16:38:17

**Operator Note:**
'5.7 5.9 c Auto Complete'

**Northing:**
368,800.57

**Easting:**
253,415.76

**Tide (feet):**
5.70



## Hole: E86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:36:18 | 33.46 | 30.06 | 1,036 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 10:36:19 | 33.79 | 30.39 | 1,036 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 10:36:19 | 34.12 | 30.72 | 1,036 | 0.43 | 0.46 | 56.6 |
| 4/20/2015 10:36:19 | 34.45 | 31.05 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 10:36:20 | 34.78 | 31.38 | 1,053 | 0.43 | 0.46 | 57.6 |
| 4/20/2015 10:36:20 | 35.11 | 31.71 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:36:21 | 35.43 | 32.03 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:21 | 35.76 | 32.36 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:21 | 36.09 | 32.69 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:36:22 | 36.42 | 33.02 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:36:22 | 36.75 | 33.35 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:36:22 | 37.07 | 33.67 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:23 | 37.40 | 34.00 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:23 | 37.73 | 34.33 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 10:36:23 | 38.06 | 34.66 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 10:36:24 | 38.39 | 34.99 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 10:36:24 | 38.71 | 35.31 | 1,065 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:36:24 | 39.04 | 35.64 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 10:36:25 | 39.37 | 35.97 | 1,068 | 0.43 | 0.46 | 58.4 |
| 4/20/2015 10:36:25 | 39.70 | 36.30 | 1,089 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:36:25 | 40.03 | 36.63 | 1,089 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:36:25 | 40.35 | 36.95 | 1,092 | 0.43 | 0.46 | 59.7 |
| 4/20/2015 10:36:26 | 40.68 | 37.28 | 1,101 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 10:36:26 | 41.01 | 37.61 | 1,101 | 0.43 | 0.46 | 60.2 |
| 4/20/2015 10:36:26 | 41.34 | 37.94 | 1,107 | 0.43 | 0.46 | 60.5 |
| 4/20/2015 10:36:27 | 41.67 | 38.27 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:36:27 | 41.99 | 38.59 | 1,091 | 0.43 | 0.46 | 59.6 |
| 4/20/2015 10:36:27 | 42.32 | 38.92 | 1,084 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:28 | 42.65 | 39.25 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:28 | 42.98 | 39.58 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:28 | 43.31 | 39.91 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:36:29 | 43.64 | 40.24 | 1,081 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:36:29 | 43.96 | 40.56 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:36:29 | 44.29 | 40.89 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:30 | 44.62 | 41.22 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:30 | 44.95 | 41.55 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:30 | 45.28 | 41.88 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:31 | 45.60 | 42.20 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:31 | 45.93 | 42.53 | 1,085 | 0.43 | 0.46 | 59.3 |
| 4/20/2015 10:36:31 | 46.26 | 42.86 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:32 | 46.59 | 43.19 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:32 | 46.92 | 43.52 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:33 | 47.24 | 43.84 | 1,082 | 0.43 | 0.46 | 59.2 |
| 4/20/2015 10:36:33 | 47.57 | 44.17 | 1,072 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:36:33 | 47.90 | 44.50 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:34 | 48.23 | 44.83 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:34 | 48.56 | 45.16 | 1,066 | 0.43 | 0.46 | 58.3 |
| 4/20/2015 10:36:34 | 48.88 | 45.48 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:36:44 | 49.21 | 45.81 | 56 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 10:36:50 | 49.54 | 46.14 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 10:36:54 | 49.87 | 46.47 | 75 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 10:37:10 | 50.20 | 46.80 | 60 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 10:37:16 | 50.53 | 47.13 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 10:37:22 | 50.85 | 47.45 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 10:37:27 | 51.18 | 47.78 | 72 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:37:33 | 51.51 | 48.11 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 10:37:39 | 51.84 | 48.44 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 10:37:46 | 52.17 | 48.77 | 52 | 0.43 | 0.46 | 2.9 |
| 4/20/2015 10:37:52 | 52.49 | 49.09 | 52 | 0.43 | 0.46 | 2.9 |
| 4/20/2015 10:37:56 | 52.66 | 49.26 | 51 | 0.43 | 0.46 | 2.8 |

## E86 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:34:29

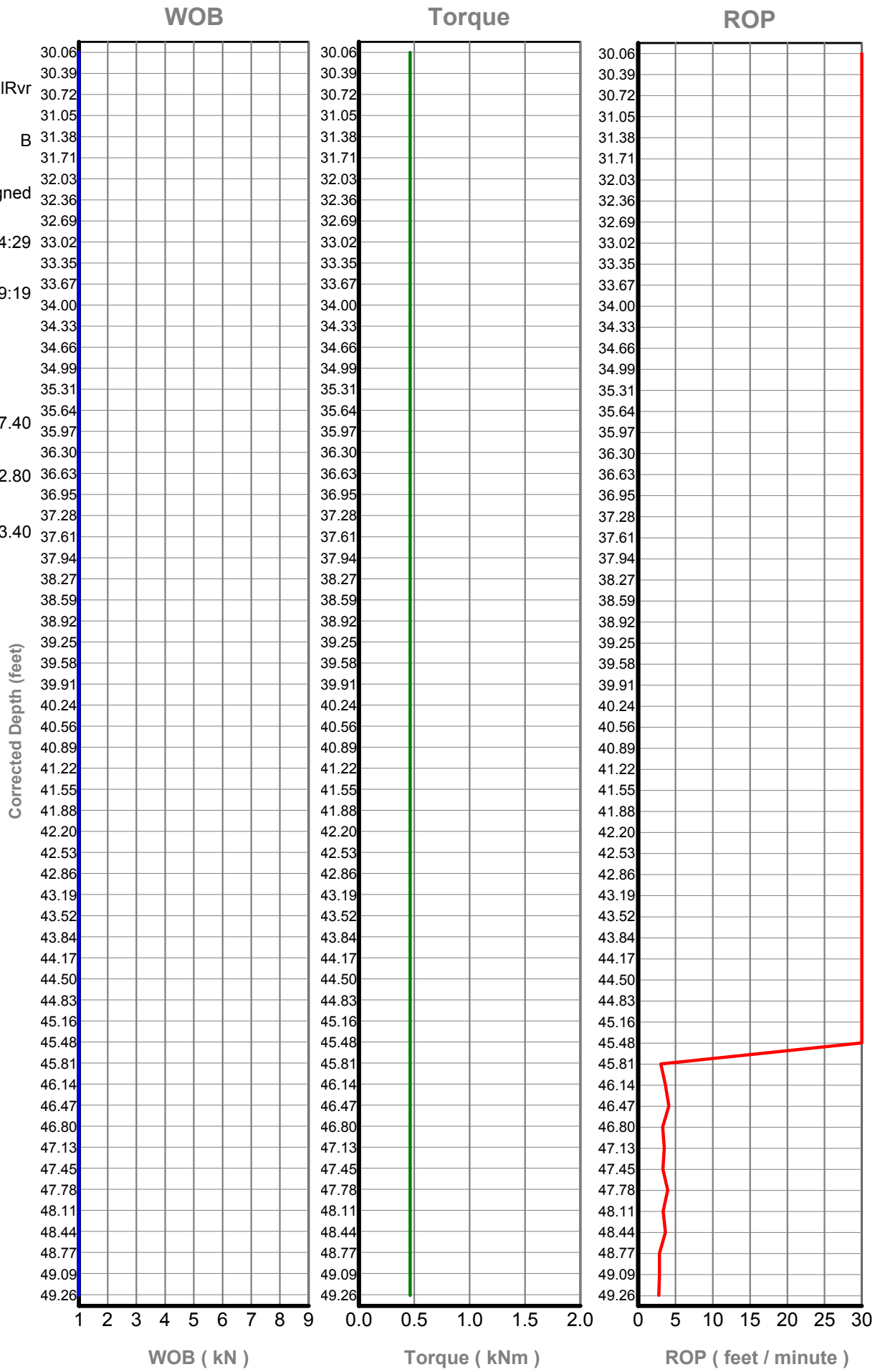
**End Date:**
4/20/2015 10:39:19

**Operator Note:**
'3.4 3.2 b Rock @51.5"

**Northing:**
368,857.40

**Easting:**
253,482.80

**Tide (feet):**
3.40



## Hole: E87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:42:18 | 33.46 | 30.06 | 943 | 0.43 | 0.46 | 51.6 |
| 4/20/2015 10:42:19 | 33.79 | 30.39 | 943 | 0.43 | 0.46 | 51.6 |
| 4/20/2015 10:42:19 | 34.12 | 30.72 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 10:42:19 | 34.45 | 31.05 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 10:42:20 | 34.78 | 31.38 | 1,047 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 10:42:20 | 35.11 | 31.71 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 10:42:20 | 35.43 | 32.03 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:21 | 35.76 | 32.36 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:21 | 36.09 | 32.69 | 1,032 | 0.43 | 0.46 | 56.4 |
| 4/20/2015 10:42:22 | 36.42 | 33.02 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 10:42:22 | 36.75 | 33.35 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 10:42:22 | 37.07 | 33.67 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 10:42:23 | 37.40 | 34.00 | 1,032 | 0.43 | 0.46 | 56.5 |
| 4/20/2015 10:42:23 | 37.73 | 34.33 | 1,032 | 0.43 | 0.46 | 56.5 |
| 4/20/2015 10:42:23 | 38.06 | 34.66 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 10:42:24 | 38.39 | 34.99 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 10:42:24 | 38.71 | 35.31 | 1,038 | 0.43 | 0.46 | 56.8 |
| 4/20/2015 10:42:24 | 39.04 | 35.64 | 1,038 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 10:42:25 | 39.37 | 35.97 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 10:42:25 | 39.70 | 36.30 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 10:42:25 | 40.03 | 36.63 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 10:42:28 | 40.35 | 36.95 | 183 | 0.43 | 0.46 | 10.0 |
| 4/20/2015 10:42:28 | 40.68 | 37.28 | 26 | 0.43 | 0.46 | 1.4 |
| 4/20/2015 10:42:29 | 41.01 | 37.61 | 226 | 0.43 | 0.46 | 12.4 |
| 4/20/2015 10:42:29 | 41.34 | 37.94 | 435 | 0.43 | 0.46 | 23.8 |
| 4/20/2015 10:42:30 | 41.67 | 38.27 | 435 | 0.43 | 0.46 | 23.8 |
| 4/20/2015 10:42:30 | 41.99 | 38.59 | 641 | 0.43 | 0.46 | 35.0 |
| 4/20/2015 10:42:30 | 42.32 | 38.92 | 641 | 0.43 | 0.46 | 35.0 |
| 4/20/2015 10:42:30 | 42.65 | 39.25 | 850 | 0.43 | 0.46 | 46.5 |
| 4/20/2015 10:42:31 | 42.98 | 39.58 | 1,032 | 0.43 | 0.46 | 56.4 |
| 4/20/2015 10:42:31 | 43.31 | 39.91 | 1,032 | 0.43 | 0.46 | 56.4 |
| 4/20/2015 10:42:31 | 43.64 | 40.24 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 10:42:32 | 43.96 | 40.56 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 10:42:32 | 44.29 | 40.89 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 10:42:33 | 44.62 | 41.22 | 1,029 | 0.43 | 0.46 | 56.3 |
| 4/20/2015 10:42:33 | 44.95 | 41.55 | 1,040 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:34 | 45.28 | 41.88 | 1,040 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:34 | 45.60 | 42.20 | 1,040 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:34 | 45.93 | 42.53 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 10:42:35 | 46.26 | 42.86 | 1,046 | 0.43 | 0.46 | 57.2 |
| 4/20/2015 10:42:35 | 46.59 | 43.19 | 1,037 | 0.43 | 0.46 | 56.7 |
| 4/20/2015 10:42:35 | 46.92 | 43.52 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 10:42:36 | 47.24 | 43.84 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 10:42:36 | 47.57 | 44.17 | 1,044 | 0.43 | 0.46 | 57.1 |
| 4/20/2015 10:42:36 | 47.90 | 44.50 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 10:42:37 | 48.23 | 44.83 | 1,047 | 0.43 | 0.46 | 57.3 |
| 4/20/2015 10:42:37 | 48.56 | 45.16 | 1,041 | 0.43 | 0.46 | 56.9 |
| 4/20/2015 10:42:56 | 48.88 | 45.48 | 14 | 0.43 | 0.46 | 0.8 |
| 4/20/2015 10:43:06 | 49.21 | 45.81 | 32 | 0.43 | 0.46 | 1.8 |
| 4/20/2015 10:43:09 | 49.54 | 46.14 | 139 | 0.43 | 0.46 | 7.6 |
| 4/20/2015 10:43:12 | 49.87 | 46.47 | 116 | 0.43 | 0.46 | 6.4 |
| 4/20/2015 10:43:15 | 50.20 | 46.80 | 119 | 0.43 | 0.46 | 6.5 |
| 4/20/2015 10:43:22 | 50.53 | 47.13 | 43 | 0.43 | 0.46 | 2.4 |
| 4/20/2015 10:43:29 | 50.85 | 47.45 | 47 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 10:43:37 | 51.18 | 47.78 | 49 | 0.43 | 0.46 | 2.7 |
| 4/20/2015 10:43:44 | 51.51 | 48.11 | 41 | 0.43 | 0.46 | 2.2 |
| 4/20/2015 10:43:48 | 51.82 | 48.42 | 87 | 0.43 | 0.46 | 4.8 |

## E87 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:40:17

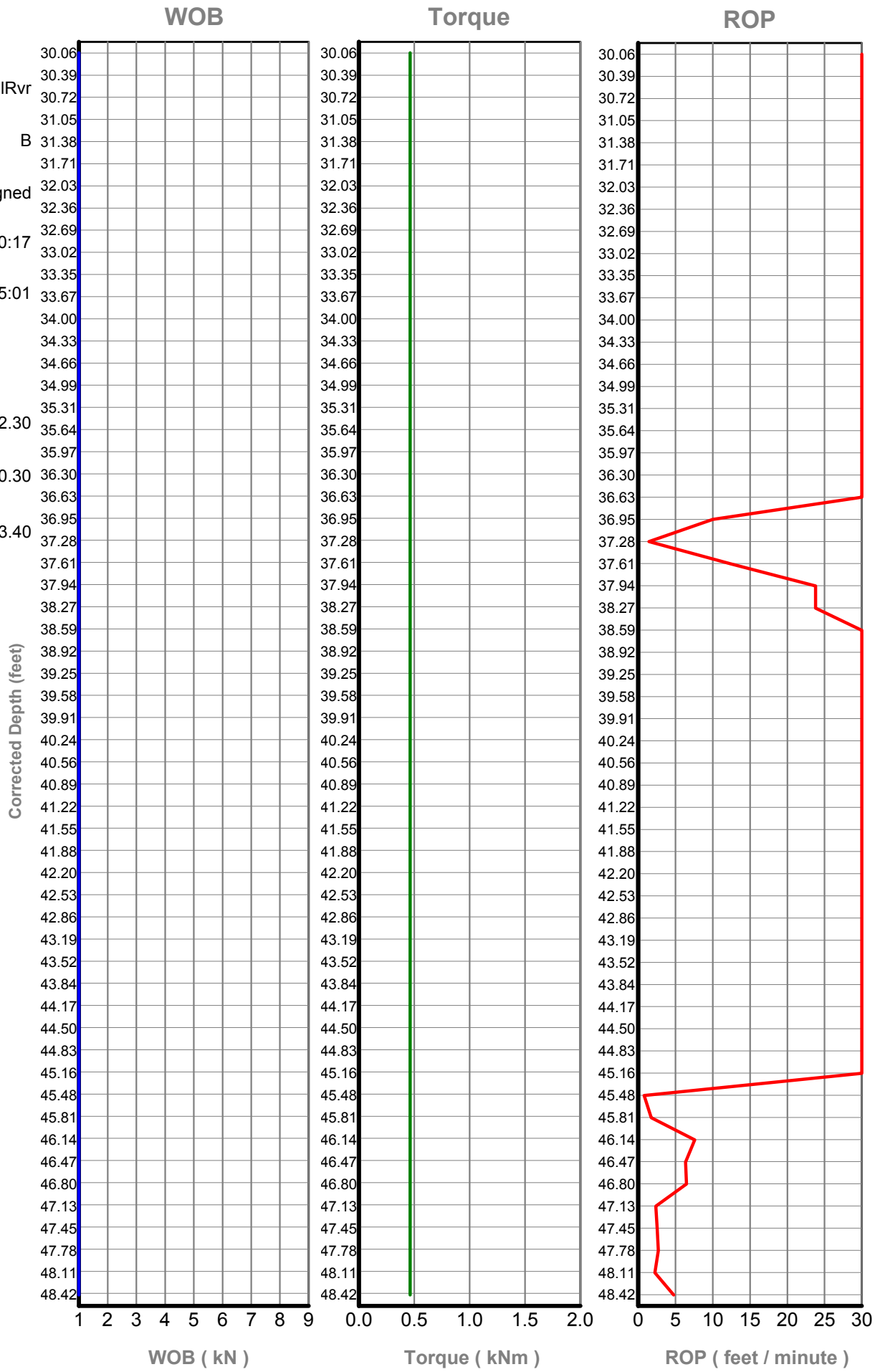
**End Date:**
4/20/2015 10:45:01

**Operator Note:**
'3.4 3.2 b Rock @ 50"

**Northing:**
368,892.30

**Easting:**
253,530.30

**Tide (feet):**
3.40



## Hole: E88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 10:48:17 | 33.79 | 30.19 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:17 | 34.12 | 30.52 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:48:18 | 34.45 | 30.85 | 1,096 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:48:18 | 34.78 | 31.18 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:48:19 | 35.11 | 31.51 | 1,093 | 0.43 | 0.46 | 59.8 |
| 4/20/2015 10:48:19 | 35.43 | 31.83 | 1,080 | 0.43 | 0.46 | 59.1 |
| 4/20/2015 10:48:19 | 35.76 | 32.16 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:48:20 | 36.09 | 32.49 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:48:20 | 36.42 | 32.82 | 1,079 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:48:20 | 36.75 | 33.15 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 10:48:21 | 37.07 | 33.47 | 1,055 | 0.43 | 0.46 | 57.7 |
| 4/20/2015 10:48:21 | 37.40 | 33.80 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:48:21 | 37.73 | 34.13 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:48:22 | 38.06 | 34.46 | 1,051 | 0.43 | 0.46 | 57.5 |
| 4/20/2015 10:48:22 | 38.39 | 34.79 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 10:48:22 | 38.71 | 35.11 | 1,059 | 0.43 | 0.46 | 57.9 |
| 4/20/2015 10:48:22 | 39.04 | 35.44 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:48:23 | 39.37 | 35.77 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:48:23 | 39.70 | 36.10 | 1,078 | 0.43 | 0.46 | 59.0 |
| 4/20/2015 10:48:23 | 40.03 | 36.43 | 1,100 | 0.43 | 0.46 | 60.1 |
| 4/20/2015 10:48:24 | 40.35 | 36.75 | 1,096 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 10:48:24 | 40.68 | 37.08 | 1,096 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 10:48:24 | 41.01 | 37.41 | 1,095 | 0.43 | 0.46 | 59.9 |
| 4/20/2015 10:48:25 | 41.34 | 37.74 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:25 | 41.67 | 38.07 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:25 | 41.99 | 38.39 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:26 | 42.32 | 38.72 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:48:26 | 42.65 | 39.05 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:48:26 | 42.98 | 39.38 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:48:27 | 43.31 | 39.71 | 1,073 | 0.43 | 0.46 | 58.7 |
| 4/20/2015 10:48:27 | 43.64 | 40.04 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 10:48:27 | 43.96 | 40.36 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:28 | 44.29 | 40.69 | 1,076 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:28 | 44.62 | 41.02 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:48:28 | 44.95 | 41.35 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:48:29 | 45.28 | 41.68 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:48:29 | 45.60 | 42.00 | 1,075 | 0.43 | 0.46 | 58.8 |
| 4/20/2015 10:48:30 | 45.93 | 42.33 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:30 | 46.26 | 42.66 | 1,078 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:30 | 46.59 | 42.99 | 1,071 | 0.43 | 0.46 | 58.6 |
| 4/20/2015 10:48:31 | 46.92 | 43.32 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:31 | 47.24 | 43.64 | 1,077 | 0.43 | 0.46 | 58.9 |
| 4/20/2015 10:48:31 | 47.57 | 43.97 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 10:48:32 | 47.90 | 44.30 | 1,061 | 0.43 | 0.46 | 58.0 |
| 4/20/2015 10:48:32 | 48.23 | 44.63 | 1,064 | 0.43 | 0.46 | 58.2 |
| 4/20/2015 10:48:32 | 48.56 | 44.96 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 10:48:33 | 48.88 | 45.28 | 1,070 | 0.43 | 0.46 | 58.5 |
| 4/20/2015 10:48:45 | 49.21 | 45.61 | 87 | 0.43 | 0.46 | 4.7 |
| 4/20/2015 10:48:49 | 49.54 | 45.94 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 10:48:54 | 49.87 | 46.27 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 10:48:59 | 50.20 | 46.60 | 72 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:49:03 | 50.53 | 46.93 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 10:49:09 | 50.85 | 47.25 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:49:13 | 51.18 | 47.58 | 76 | 0.43 | 0.46 | 4.1 |
| 4/20/2015 10:49:18 | 51.51 | 47.91 | 79 | 0.43 | 0.46 | 4.3 |
| 4/20/2015 10:49:23 | 51.84 | 48.24 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:49:28 | 52.17 | 48.57 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 10:49:33 | 52.49 | 48.89 | 69 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 10:49:39 | 52.82 | 49.22 | 61 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 10:49:44 | 53.15 | 49.55 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 10:49:48 | 53.48 | 49.88 | 76 | 0.43 | 0.46 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 10:49:53 | 53.81 | 50.21 | 90 | 0.43 | 0.46 | 4.9 |
| 4/20/2015 | 10:49:56 | 54.13 | 50.53 | 110 | 0.43 | 0.46 | 6.0 |
| 4/20/2015 | 10:50:01 | 54.46 | 50.86 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 10:50:06 | 54.79 | 51.19 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 | 10:50:10 | 55.12 | 51.52 | 94 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 | 10:50:15 | 55.45 | 51.85 | 70 | 0.43 | 0.46 | 3.8 |
| 4/20/2015 | 10:50:20 | 55.77 | 52.17 | 73 | 0.43 | 0.46 | 4.0 |
| 4/20/2015 | 10:50:23 | 56.10 | 52.50 | 91 | 0.43 | 0.46 | 5.0 |
| 4/20/2015 | 10:50:28 | 56.43 | 52.83 | 67 | 0.43 | 0.46 | 3.7 |
| 4/20/2015 | 10:50:33 | 56.76 | 53.16 | 60 | 0.43 | 0.46 | 3.3 |
| 4/20/2015 | 10:50:40 | 57.09 | 53.49 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 | 10:50:45 | 57.41 | 53.81 | 64 | 0.43 | 0.46 | 3.5 |
| 4/20/2015 | 10:50:51 | 57.71 | 54.11 | 55 | 0.43 | 0.46 | 3.0 |

## E88 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/20/2015 10:46:13

**End Date:**
4/20/2015 10:52:18

**Operator Note:**
'3.6 3.4 b Rock @ 56.6"

**Northing:**
368,936.75

**Easting:**
253,590.70

**Tide (feet):**
3.60



## Hole: E89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 5:04:30 | 35.43 | 30.03 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:30 | 35.76 | 30.36 | 986 | 1.93 | 0.22 | 53.9 |
| 4/20/2015 5:04:34 | 36.09 | 30.69 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 5:04:35 | 36.42 | 31.02 | 105 | 1.93 | 0.22 | 5.8 |
| 4/20/2015 5:04:35 | 36.75 | 31.35 | 312 | 1.93 | 0.22 | 17.0 |
| 4/20/2015 5:04:36 | 37.07 | 31.67 | 512 | 1.93 | 0.22 | 28.0 |
| 4/20/2015 5:04:36 | 37.40 | 32.00 | 512 | 1.93 | 0.22 | 28.0 |
| 4/20/2015 5:04:36 | 37.73 | 32.33 | 709 | 1.93 | 0.22 | 38.8 |
| 4/20/2015 5:04:37 | 38.06 | 32.66 | 912 | 1.93 | 0.22 | 49.9 |
| 4/20/2015 5:04:37 | 38.39 | 32.99 | 912 | 1.93 | 0.22 | 49.9 |
| 4/20/2015 5:04:37 | 38.71 | 33.31 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:38 | 39.04 | 33.64 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:38 | 39.37 | 33.97 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:38 | 39.70 | 34.30 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:39 | 40.03 | 34.63 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:39 | 40.35 | 34.95 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:39 | 40.68 | 35.28 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:40 | 41.01 | 35.61 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/20/2015 5:04:40 | 41.34 | 35.94 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:41 | 41.67 | 36.27 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:41 | 41.99 | 36.59 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:41 | 42.32 | 36.92 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:42 | 42.65 | 37.25 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:42 | 42.98 | 37.58 | 1,004 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:42 | 43.31 | 37.91 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:04:43 | 43.64 | 38.24 | 992 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:04:43 | 43.96 | 38.56 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:43 | 44.29 | 38.89 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:44 | 44.62 | 39.22 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:44 | 44.95 | 39.55 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:44 | 45.28 | 39.88 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:45 | 45.60 | 40.20 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:45 | 45.93 | 40.53 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:45 | 46.26 | 40.86 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:46 | 46.59 | 41.19 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:47 | 46.92 | 41.52 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:47 | 47.24 | 41.84 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:47 | 47.57 | 42.17 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 5:04:48 | 47.90 | 42.50 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 5:04:48 | 48.23 | 42.83 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/20/2015 5:04:48 | 48.56 | 43.16 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:49 | 48.88 | 43.48 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:49 | 49.21 | 43.81 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/20/2015 5:04:49 | 49.54 | 44.14 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 5:04:50 | 49.87 | 44.47 | 994 | 1.93 | 0.22 | 54.4 |
| 4/20/2015 5:04:50 | 50.20 | 44.80 | 997 | 1.93 | 0.22 | 54.5 |
| 4/20/2015 5:04:50 | 50.53 | 45.13 | 991 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:04:51 | 50.85 | 45.45 | 991 | 1.93 | 0.22 | 54.2 |
| 4/20/2015 5:05:13 | 51.18 | 45.78 | 27 | 1.93 | 0.22 | 1.4 |
| 4/20/2015 5:05:15 | 51.51 | 46.11 | 141 | 1.93 | 0.22 | 7.7 |
| 4/20/2015 5:05:16 | 51.84 | 46.44 | 231 | 1.93 | 0.22 | 12.6 |
| 4/20/2015 5:05:40 | 52.17 | 46.77 | 73 | 1.93 | 0.22 | 4.0 |
| 4/20/2015 5:05:41 | 52.49 | 47.09 | 250 | 1.93 | 0.22 | 13.6 |
| 4/20/2015 5:05:42 | 52.82 | 47.42 | 341 | 1.93 | 0.22 | 18.6 |
| 4/20/2015 5:05:42 | 53.15 | 47.75 | 418 | 1.93 | 0.22 | 22.9 |
| 4/20/2015 5:05:53 | 53.48 | 48.08 | 54 | 1.93 | 0.22 | 3.0 |
| 4/20/2015 5:05:54 | 53.81 | 48.41 | 146 | 1.93 | 0.22 | 8.0 |
| 4/20/2015 5:05:55 | 54.13 | 48.73 | 340 | 1.93 | 0.22 | 18.6 |
| 4/20/2015 5:05:56 | 54.46 | 49.06 | 401 | 1.93 | 0.22 | 21.9 |
| 4/20/2015 5:06:03 | 54.79 | 49.39 | 64 | 1.93 | 0.22 | 3.5 |
| 4/20/2015 5:06:04 | 55.12 | 49.72 | 161 | 1.93 | 0.22 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 5:06:05 | 55.45 | 50.05 | 306 | 1.93 | 0.22 | 16.7 |
| 4/20/2015 | 5:06:15 | 55.77 | 50.37 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 | 5:06:16 | 56.10 | 50.70 | 140 | 1.93 | 0.22 | 7.6 |
| 4/20/2015 | 5:06:18 | 56.43 | 51.03 | 217 | 1.93 | 0.22 | 11.9 |
| 4/20/2015 | 5:06:34 | 56.76 | 51.36 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 | 5:06:38 | 57.09 | 51.69 | 88 | 1.93 | 0.22 | 4.8 |
| 4/20/2015 | 5:06:41 | 57.41 | 52.01 | 113 | 1.93 | 0.22 | 6.2 |
| 4/20/2015 | 5:06:44 | 57.74 | 52.34 | 112 | 1.93 | 0.22 | 6.1 |
| 4/20/2015 | 5:06:48 | 58.07 | 52.67 | 111 | 1.93 | 0.22 | 6.1 |
| 4/20/2015 | 5:06:51 | 58.40 | 53.00 | 102 | 1.93 | 0.22 | 5.6 |
| 4/20/2015 | 5:06:55 | 58.73 | 53.33 | 102 | 1.93 | 0.22 | 5.6 |
| 4/20/2015 | 5:06:58 | 59.06 | 53.66 | 92 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 5:07:02 | 59.38 | 53.98 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 5:07:07 | 59.71 | 54.31 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 5:07:10 | 60.04 | 54.64 | 96 | 1.93 | 0.22 | 5.2 |
| 4/20/2015 | 5:07:14 | 60.37 | 54.97 | 111 | 1.93 | 0.22 | 6.0 |
| 4/20/2015 | 5:07:17 | 60.70 | 55.30 | 113 | 1.93 | 0.22 | 6.2 |
| 4/20/2015 | 5:07:18 | 60.85 | 55.45 | 117 | 1.93 | 0.22 | 6.4 |

## E89 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 5:02:09

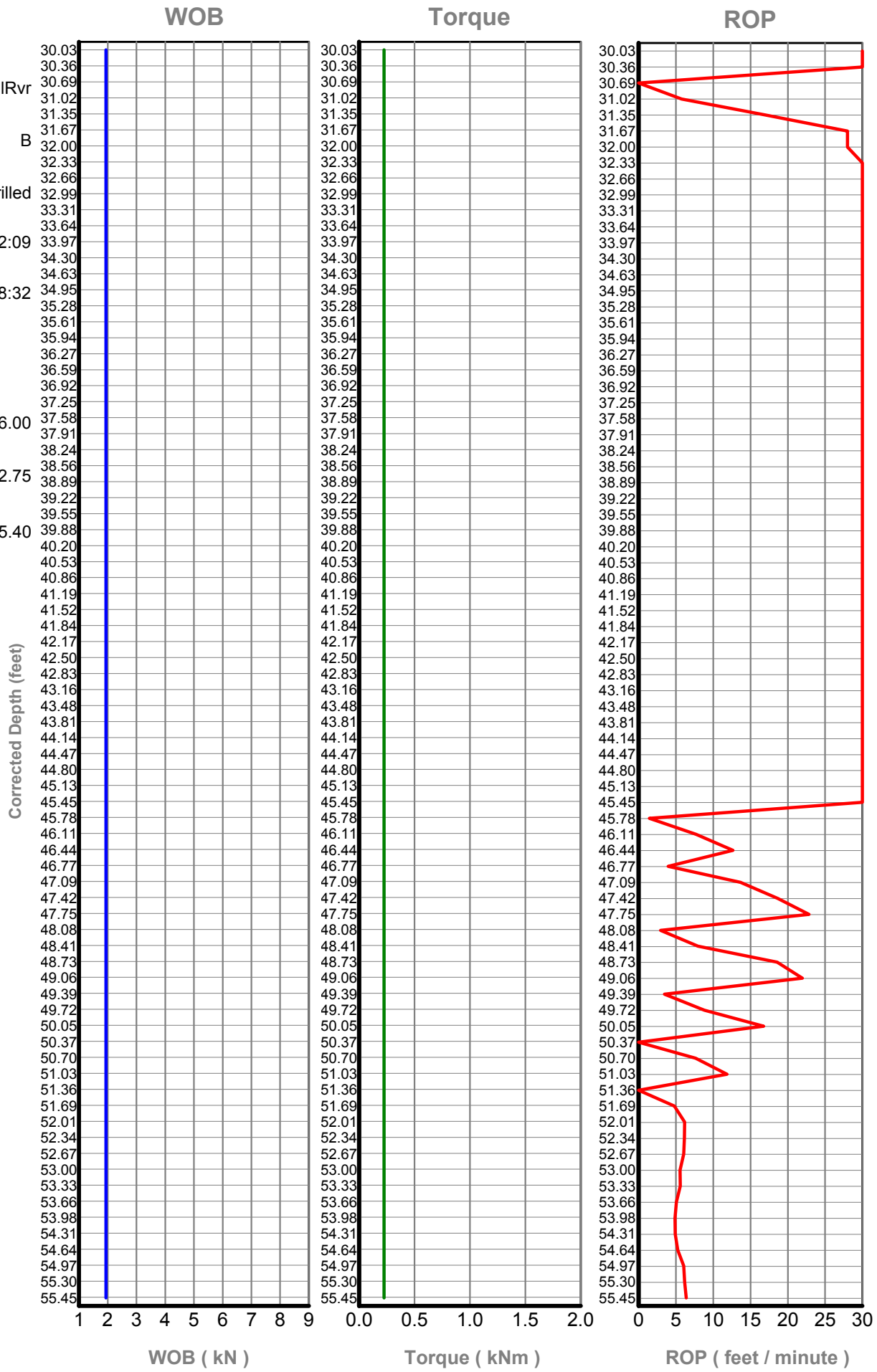
**End Date:**
4/20/2015 5:08:32

**Operator Note:**
'5.4 '6 5.83 b Auto Complete'

**Northing:**
368,986.00

**Easting:**
253,642.75

**Tide (feet):**
5.40



## Hole: E89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 4:34:19 | 35.43 | 30.03 | 1,022 | 1.93 | 0.22 | 55.9 |
| 4/20/2015 4:34:20 | 35.76 | 30.36 | 1,016 | 1.93 | 0.22 | 55.5 |
| 4/20/2015 4:35:20 | 35.89 | 30.49 | 0 | 1.93 | 0.22 | 0.0 |

## E89 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 4:31:39

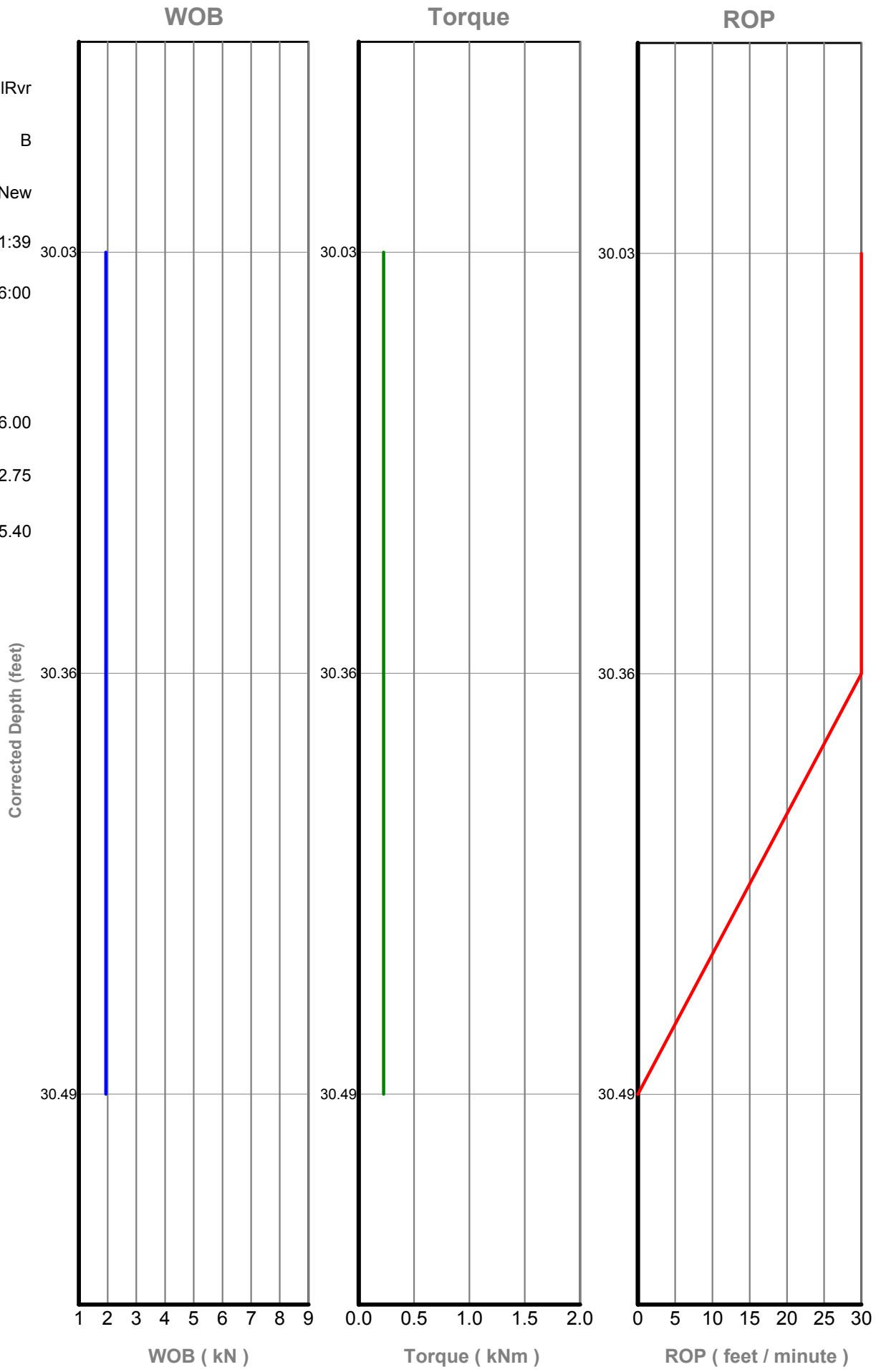
**End Date:**
4/20/2015 4:36:00

**Operator Note:**
'5.4 '6 6.34 b Auto Complete'

**Northing:**
368,986.00

**Easting:**
253,642.75

**Tide (feet):**
5.40



## Hole: E9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 12:44:13 | 36.75 | 30.25 | 1,096 | 0.43 | 0.46 | 60.0 |
| 4/20/2015 12:44:13 | 37.07 | 30.57 | 1,103 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 12:44:13 | 37.40 | 30.90 | 1,103 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 12:44:14 | 37.73 | 31.23 | 1,103 | 0.43 | 0.46 | 60.3 |
| 4/20/2015 12:44:14 | 38.06 | 31.56 | 1,099 | 0.43 | 0.46 | 60.1 |
| 4/20/2015 12:44:24 | 38.39 | 31.89 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 12:44:25 | 38.71 | 32.21 | 173 | 0.43 | 0.46 | 9.5 |
| 4/20/2015 12:44:26 | 39.04 | 32.54 | 255 | 0.43 | 0.46 | 13.9 |
| 4/20/2015 12:44:27 | 39.37 | 32.87 | 277 | 0.43 | 0.46 | 15.2 |
| 4/20/2015 12:44:29 | 39.70 | 33.20 | 273 | 0.43 | 0.46 | 14.9 |
| 4/20/2015 12:44:31 | 40.03 | 33.53 | 151 | 0.43 | 0.46 | 8.3 |
| 4/20/2015 12:44:43 | 40.35 | 33.85 | 114 | 0.43 | 0.46 | 6.2 |
| 4/20/2015 12:44:51 | 40.68 | 34.18 | 26 | 0.43 | 0.46 | 1.4 |
| 4/20/2015 12:44:52 | 41.01 | 34.51 | 156 | 0.43 | 0.46 | 8.5 |
| 4/20/2015 12:44:54 | 41.34 | 34.84 | 270 | 0.43 | 0.46 | 14.8 |
| 4/20/2015 12:44:55 | 41.67 | 35.17 | 228 | 0.43 | 0.46 | 12.5 |
| 4/20/2015 12:44:57 | 41.99 | 35.49 | 247 | 0.43 | 0.46 | 13.5 |
| 4/20/2015 12:44:57 | 42.32 | 35.82 | 283 | 0.43 | 0.46 | 15.5 |
| 4/20/2015 12:45:00 | 42.65 | 36.15 | 156 | 0.43 | 0.46 | 8.5 |
| 4/20/2015 12:45:01 | 42.98 | 36.48 | 141 | 0.43 | 0.46 | 7.7 |
| 4/20/2015 12:45:24 | 43.31 | 36.81 | 0 | 0.43 | 0.46 | 0.0 |
| 4/20/2015 12:45:26 | 43.64 | 37.14 | 162 | 0.43 | 0.46 | 8.9 |
| 4/20/2015 12:46:00 | 43.96 | 37.46 | 26 | 0.43 | 0.46 | 1.4 |
| 4/20/2015 12:46:05 | 44.29 | 37.79 | 84 | 0.43 | 0.46 | 4.6 |
| 4/20/2015 12:46:12 | 44.62 | 38.12 | 46 | 0.43 | 0.46 | 2.5 |
| 4/20/2015 12:46:17 | 44.95 | 38.45 | 87 | 0.43 | 0.46 | 4.8 |
| 4/20/2015 12:46:22 | 45.28 | 38.78 | 58 | 0.43 | 0.46 | 3.2 |
| 4/20/2015 12:46:25 | 45.60 | 39.10 | 135 | 0.43 | 0.46 | 7.4 |
| 4/20/2015 12:46:28 | 45.93 | 39.43 | 92 | 0.43 | 0.46 | 5.0 |
| 4/20/2015 12:46:32 | 46.26 | 39.76 | 101 | 0.43 | 0.46 | 5.5 |
| 4/20/2015 12:46:35 | 46.59 | 40.09 | 93 | 0.43 | 0.46 | 5.1 |
| 4/20/2015 12:46:42 | 46.92 | 40.42 | 55 | 0.43 | 0.46 | 3.0 |
| 4/20/2015 12:46:48 | 47.24 | 40.74 | 62 | 0.43 | 0.46 | 3.4 |
| 4/20/2015 12:46:55 | 47.57 | 41.07 | 44 | 0.43 | 0.46 | 2.4 |
| 4/20/2015 12:47:03 | 47.90 | 41.40 | 41 | 0.43 | 0.46 | 2.2 |
| 4/20/2015 12:47:07 | 48.10 | 41.60 | 46 | 0.43 | 0.46 | 2.5 |

## E9 - Summary

**Pattern Number:**
AreaE_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 12:41:26

**End Date:**
4/20/2015 12:48:40

**Operator Note:**
'6.5 6.4 b Rock @ 47"

**Northing:**
369,141.10

**Easting:**
253,363.40

**Tide (feet):**
6.50



## Hole: E90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 4:55:16 | 35.76 | 30.26 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:16 | 36.09 | 30.59 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:16 | 36.42 | 30.92 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:17 | 36.75 | 31.25 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:17 | 37.07 | 31.57 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:17 | 37.40 | 31.90 | 1,038 | 1.93 | 0.22 | 56.7 |
| 4/20/2015 4:55:18 | 37.73 | 32.23 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 4:55:18 | 38.06 | 32.56 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 4:55:18 | 38.39 | 32.89 | 1,026 | 1.93 | 0.22 | 56.1 |
| 4/20/2015 4:55:19 | 38.71 | 33.21 | 1,042 | 1.93 | 0.22 | 57.0 |
| 4/20/2015 4:55:20 | 39.04 | 33.54 | 1,042 | 1.93 | 0.22 | 57.0 |
| 4/20/2015 4:55:19 | 39.37 | 33.87 | 1,036 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:20 | 39.70 | 34.20 | 1,036 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:20 | 40.03 | 34.53 | 1,042 | 1.93 | 0.22 | 57.0 |
| 4/20/2015 4:55:21 | 40.35 | 34.85 | 1,048 | 1.93 | 0.22 | 57.3 |
| 4/20/2015 4:55:21 | 40.68 | 35.18 | 1,048 | 1.93 | 0.22 | 57.3 |
| 4/20/2015 4:55:21 | 41.01 | 35.51 | 1,051 | 1.93 | 0.22 | 57.5 |
| 4/20/2015 4:55:22 | 41.34 | 35.84 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:22 | 41.67 | 36.17 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:22 | 41.99 | 36.49 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:23 | 42.32 | 36.82 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:23 | 42.65 | 37.15 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:23 | 42.98 | 37.48 | 1,044 | 1.93 | 0.22 | 57.1 |
| 4/20/2015 4:55:24 | 43.31 | 37.81 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:24 | 43.64 | 38.14 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:24 | 43.96 | 38.46 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:25 | 44.29 | 38.79 | 1,032 | 1.93 | 0.22 | 56.4 |
| 4/20/2015 4:55:25 | 44.62 | 39.12 | 1,032 | 1.93 | 0.22 | 56.4 |
| 4/20/2015 4:55:25 | 44.95 | 39.45 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:26 | 45.28 | 39.78 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:26 | 45.60 | 40.10 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:26 | 45.93 | 40.43 | 1,038 | 1.93 | 0.22 | 56.7 |
| 4/20/2015 4:55:27 | 46.26 | 40.76 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:27 | 46.59 | 41.09 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:27 | 46.92 | 41.42 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:28 | 47.24 | 41.74 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:28 | 47.57 | 42.07 | 1,041 | 1.93 | 0.22 | 56.9 |
| 4/20/2015 4:55:28 | 47.90 | 42.40 | 1,035 | 1.93 | 0.22 | 56.6 |
| 4/20/2015 4:55:29 | 48.23 | 42.73 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:29 | 48.56 | 43.06 | 1,038 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:29 | 48.88 | 43.38 | 1,032 | 1.93 | 0.22 | 56.4 |
| 4/20/2015 4:55:30 | 49.21 | 43.71 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 4:55:30 | 49.54 | 44.04 | 1,029 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 4:55:30 | 49.87 | 44.37 | 1,033 | 1.93 | 0.22 | 56.5 |
| 4/20/2015 4:55:31 | 50.20 | 44.70 | 1,036 | 1.93 | 0.22 | 56.7 |
| 4/20/2015 4:55:32 | 50.53 | 45.03 | 1,036 | 1.93 | 0.22 | 56.7 |
| 4/20/2015 4:55:32 | 50.85 | 45.35 | 1,030 | 1.93 | 0.22 | 56.3 |
| 4/20/2015 4:55:32 | 51.18 | 45.68 | 1,039 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:33 | 51.51 | 46.01 | 1,039 | 1.93 | 0.22 | 56.8 |
| 4/20/2015 4:55:58 | 51.84 | 46.34 | 9 | 1.93 | 0.22 | 0.5 |
| 4/20/2015 4:56:02 | 52.17 | 46.67 | 55 | 1.93 | 0.22 | 3.0 |
| 4/20/2015 4:56:03 | 52.49 | 46.99 | 155 | 1.93 | 0.22 | 8.5 |
| 4/20/2015 4:56:03 | 52.82 | 47.32 | 272 | 1.93 | 0.22 | 14.9 |
| 4/20/2015 4:56:19 | 53.15 | 47.65 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 4:56:40 | 53.48 | 47.98 | 29 | 1.93 | 0.22 | 1.6 |
| 4/20/2015 4:56:41 | 53.81 | 48.31 | 178 | 1.93 | 0.22 | 9.7 |
| 4/20/2015 4:56:42 | 54.13 | 48.63 | 275 | 1.93 | 0.22 | 15.0 |
| 4/20/2015 4:56:45 | 54.46 | 48.96 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 4:56:46 | 54.79 | 49.29 | 146 | 1.93 | 0.22 | 8.0 |
| 4/20/2015 4:56:47 | 55.12 | 49.62 | 352 | 1.93 | 0.22 | 19.2 |
| 4/20/2015 4:56:47 | 55.45 | 49.95 | 452 | 1.93 | 0.22 | 24.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 4:57:19 | 55.77 | 50.27 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 | 4:57:20 | 56.10 | 50.60 | 44 | 1.93 | 0.22 | 2.4 |
| 4/20/2015 | 4:57:21 | 56.43 | 50.93 | 131 | 1.93 | 0.22 | 7.2 |
| 4/20/2015 | 4:57:22 | 56.76 | 51.26 | 305 | 1.93 | 0.22 | 16.7 |
| 4/20/2015 | 4:57:27 | 57.09 | 51.59 | 69 | 1.93 | 0.22 | 3.7 |
| 4/20/2015 | 4:57:28 | 57.41 | 51.91 | 229 | 1.93 | 0.22 | 12.5 |
| 4/20/2015 | 4:57:29 | 57.74 | 52.24 | 262 | 1.93 | 0.22 | 14.3 |
| 4/20/2015 | 4:57:36 | 58.07 | 52.57 | 23 | 1.93 | 0.22 | 1.3 |
| 4/20/2015 | 4:57:38 | 58.40 | 52.90 | 206 | 1.93 | 0.22 | 11.3 |
| 4/20/2015 | 4:57:39 | 58.73 | 53.23 | 297 | 1.93 | 0.22 | 16.2 |
| 4/20/2015 | 4:57:41 | 59.06 | 53.56 | 274 | 1.93 | 0.22 | 15.0 |
| 4/20/2015 | 4:57:42 | 59.38 | 53.88 | 278 | 1.93 | 0.22 | 15.2 |
| 4/20/2015 | 4:57:43 | 59.71 | 54.21 | 282 | 1.93 | 0.22 | 15.4 |
| 4/20/2015 | 4:57:44 | 60.04 | 54.54 | 301 | 1.93 | 0.22 | 16.5 |
| 4/20/2015 | 4:57:45 | 60.37 | 54.87 | 290 | 1.93 | 0.22 | 15.9 |
| 4/20/2015 | 4:57:47 | 60.70 | 55.20 | 264 | 1.93 | 0.22 | 14.4 |
| 4/20/2015 | 4:57:49 | 61.00 | 55.50 | 222 | 1.93 | 0.22 | 12.1 |

## E90 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/20/2015 4:53:55

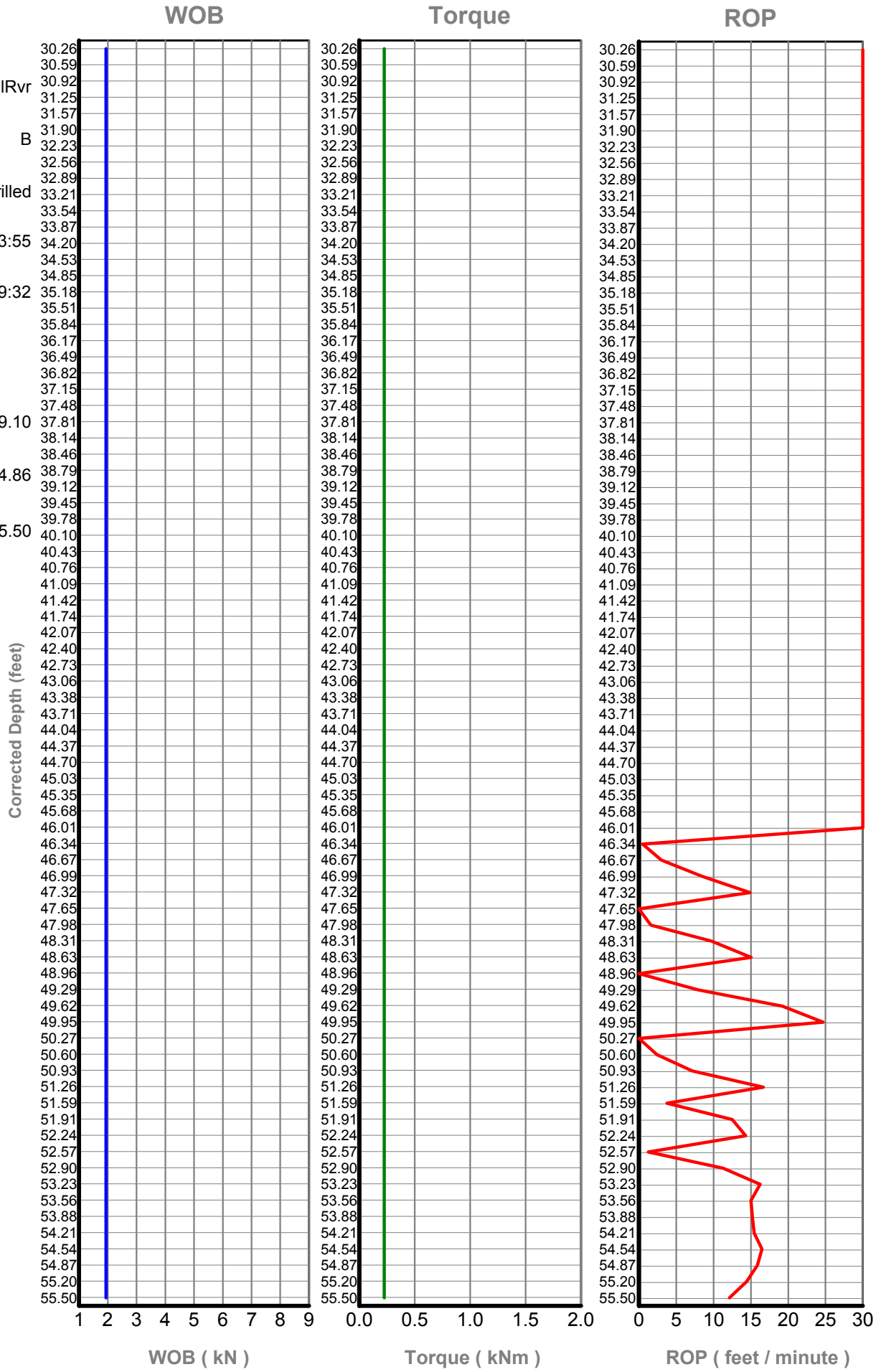
**End Date:**
4/20/2015 4:59:32

**Operator Note:**
'5.5 5.96 b Auto Complete'

**Northing:**
369,029.10

**Easting:**
253,704.86

**Tide (feet):**
5.50



## Hole: E91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/20/2015 4:37:37 | 36.09 | 30.19 | 1,067 | 1.93 | 0.22 | 58.3 |
| 4/20/2015 4:37:37 | 36.42 | 30.52 | 1,070 | 1.93 | 0.22 | 58.5 |
| 4/20/2015 4:37:38 | 36.75 | 30.85 | 1,070 | 1.93 | 0.22 | 58.5 |
| 4/20/2015 4:37:38 | 37.07 | 31.17 | 1,067 | 1.93 | 0.22 | 58.3 |
| 4/20/2015 4:37:38 | 37.40 | 31.50 | 1,070 | 1.93 | 0.22 | 58.5 |
| 4/20/2015 4:37:39 | 37.73 | 31.83 | 1,070 | 1.93 | 0.22 | 58.5 |
| 4/20/2015 4:37:39 | 38.06 | 32.16 | 1,070 | 1.93 | 0.22 | 58.5 |
| 4/20/2015 4:37:39 | 38.39 | 32.49 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:40 | 38.71 | 32.81 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:40 | 39.04 | 33.14 | 1,064 | 1.93 | 0.22 | 58.2 |
| 4/20/2015 4:37:40 | 39.37 | 33.47 | 1,073 | 1.93 | 0.22 | 58.7 |
| 4/20/2015 4:37:41 | 39.70 | 33.80 | 1,073 | 1.93 | 0.22 | 58.7 |
| 4/20/2015 4:37:41 | 40.03 | 34.13 | 1,058 | 1.93 | 0.22 | 57.8 |
| 4/20/2015 4:37:41 | 40.35 | 34.45 | 1,058 | 1.93 | 0.22 | 57.8 |
| 4/20/2015 4:37:41 | 40.68 | 34.78 | 1,058 | 1.93 | 0.22 | 57.8 |
| 4/20/2015 4:37:42 | 41.01 | 35.11 | 1,061 | 1.93 | 0.22 | 58.0 |
| 4/20/2015 4:37:42 | 41.34 | 35.44 | 1,061 | 1.93 | 0.22 | 58.0 |
| 4/20/2015 4:37:42 | 41.67 | 35.77 | 1,064 | 1.93 | 0.22 | 58.2 |
| 4/20/2015 4:37:43 | 41.99 | 36.09 | 1,074 | 1.93 | 0.22 | 58.7 |
| 4/20/2015 4:37:43 | 42.32 | 36.42 | 1,074 | 1.93 | 0.22 | 58.7 |
| 4/20/2015 4:37:43 | 42.65 | 36.75 | 1,065 | 1.93 | 0.22 | 58.2 |
| 4/20/2015 4:37:44 | 42.98 | 37.08 | 1,090 | 1.93 | 0.22 | 59.6 |
| 4/20/2015 4:37:45 | 43.31 | 37.41 | 1,090 | 1.93 | 0.22 | 59.6 |
| 4/20/2015 4:37:45 | 43.64 | 37.74 | 1,083 | 1.93 | 0.22 | 59.2 |
| 4/20/2015 4:37:45 | 43.96 | 38.06 | 1,084 | 1.93 | 0.22 | 59.3 |
| 4/20/2015 4:37:46 | 44.29 | 38.39 | 1,084 | 1.93 | 0.22 | 59.3 |
| 4/20/2015 4:37:46 | 44.62 | 38.72 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:46 | 44.95 | 39.05 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:46 | 45.28 | 39.38 | 1,055 | 1.93 | 0.22 | 57.7 |
| 4/20/2015 4:37:47 | 45.60 | 39.70 | 1,049 | 1.93 | 0.22 | 57.4 |
| 4/20/2015 4:37:47 | 45.93 | 40.03 | 1,049 | 1.93 | 0.22 | 57.4 |
| 4/20/2015 4:37:47 | 46.26 | 40.36 | 1,062 | 1.93 | 0.22 | 58.1 |
| 4/20/2015 4:37:48 | 46.59 | 40.69 | 1,069 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:48 | 46.92 | 41.02 | 1,069 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:48 | 47.24 | 41.34 | 1,081 | 1.93 | 0.22 | 59.1 |
| 4/20/2015 4:37:49 | 47.57 | 41.67 | 1,093 | 1.93 | 0.22 | 59.8 |
| 4/20/2015 4:37:49 | 47.90 | 42.00 | 1,093 | 1.93 | 0.22 | 59.8 |
| 4/20/2015 4:37:49 | 48.23 | 42.33 | 1,080 | 1.93 | 0.22 | 59.1 |
| 4/20/2015 4:37:50 | 48.56 | 42.66 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:50 | 48.88 | 42.98 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:50 | 49.21 | 43.31 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:51 | 49.54 | 43.64 | 1,067 | 1.93 | 0.22 | 58.4 |
| 4/20/2015 4:37:51 | 49.87 | 43.97 | 1,056 | 1.93 | 0.22 | 57.7 |
| 4/20/2015 4:37:51 | 50.20 | 44.30 | 1,056 | 1.93 | 0.22 | 57.7 |
| 4/20/2015 4:37:52 | 50.53 | 44.63 | 1,056 | 1.93 | 0.22 | 57.7 |
| 4/20/2015 4:37:52 | 50.85 | 44.95 | 1,059 | 1.93 | 0.22 | 57.9 |
| 4/20/2015 4:38:09 | 51.18 | 45.28 | 6 | 1.93 | 0.22 | 0.3 |
| 4/20/2015 4:38:18 | 51.51 | 45.61 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 4:38:20 | 51.84 | 45.94 | 117 | 1.93 | 0.22 | 6.4 |
| 4/20/2015 4:38:21 | 52.17 | 46.27 | 187 | 1.93 | 0.22 | 10.3 |
| 4/20/2015 4:38:28 | 52.49 | 46.59 | 65 | 1.93 | 0.22 | 3.6 |
| 4/20/2015 4:38:30 | 52.82 | 46.92 | 200 | 1.93 | 0.22 | 10.9 |
| 4/20/2015 4:38:31 | 53.15 | 47.25 | 242 | 1.93 | 0.22 | 13.2 |
| 4/20/2015 4:38:50 | 53.48 | 47.58 | 0 | 1.93 | 0.22 | 0.0 |
| 4/20/2015 4:38:51 | 53.81 | 47.91 | 113 | 1.93 | 0.22 | 6.2 |
| 4/20/2015 4:38:52 | 54.13 | 48.23 | 240 | 1.93 | 0.22 | 13.1 |
| 4/20/2015 4:38:53 | 54.46 | 48.56 | 338 | 1.93 | 0.22 | 18.5 |
| 4/20/2015 4:39:25 | 54.79 | 48.89 | 34 | 1.93 | 0.22 | 1.9 |
| 4/20/2015 4:39:25 | 55.12 | 49.22 | 131 | 1.93 | 0.22 | 7.2 |
| 4/20/2015 4:39:26 | 55.45 | 49.55 | 249 | 1.93 | 0.22 | 13.6 |
| 4/20/2015 4:39:27 | 55.77 | 49.87 | 464 | 1.93 | 0.22 | 25.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/20/2015 | 4:39:33 | 56.10 | 50.20 | 123 | 1.93 | 0.22 | 6.7 |
| 4/20/2015 | 4:39:34 | 56.43 | 50.53 | 188 | 1.93 | 0.22 | 10.3 |
| 4/20/2015 | 4:39:37 | 56.76 | 50.86 | 100 | 1.93 | 0.22 | 5.5 |
| 4/20/2015 | 4:39:48 | 57.09 | 51.19 | 90 | 1.93 | 0.22 | 4.9 |
| 4/20/2015 | 4:39:52 | 57.41 | 51.51 | 87 | 1.93 | 0.22 | 4.7 |
| 4/20/2015 | 4:39:56 | 57.74 | 51.84 | 81 | 1.93 | 0.22 | 4.4 |
| 4/20/2015 | 4:40:00 | 58.07 | 52.17 | 84 | 1.93 | 0.22 | 4.6 |
| 4/20/2015 | 4:40:04 | 58.40 | 52.50 | 93 | 1.93 | 0.22 | 5.1 |
| 4/20/2015 | 4:40:06 | 58.59 | 52.69 | 87 | 1.93 | 0.22 | 4.8 |

## E91 - Summary

**Pattern Number:**
AreaE_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/20/2015 4:36:11

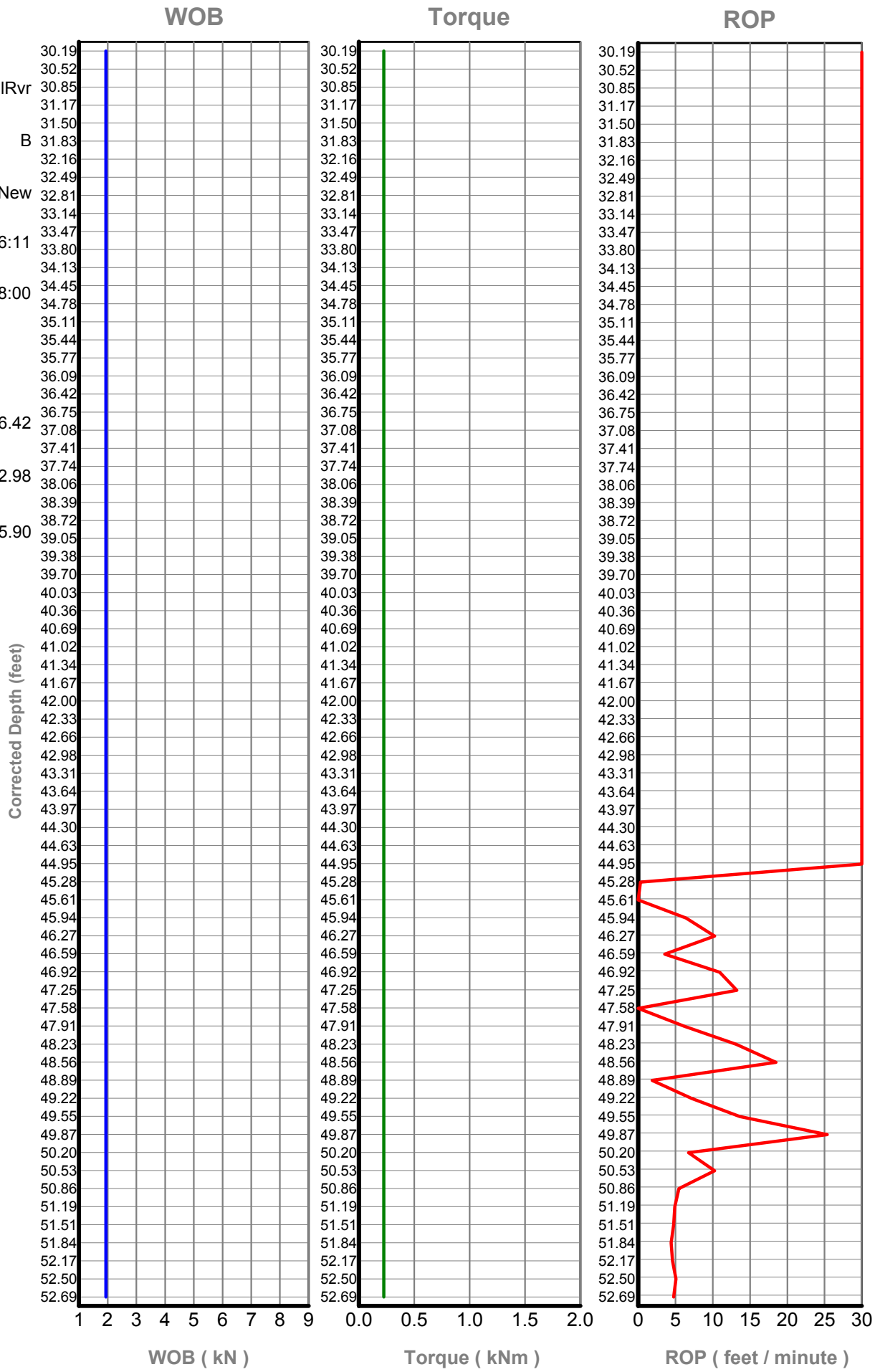
**End Date:**
4/20/2015 4:48:00

**Operator Note:**
'5.9 6.34 b Auto Complete'

**Northing:**
369,076.42

**Easting:**
253,772.98

**Tide (feet):**
5.90



## Hole: E92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 18:11:52 | 33.14 | 30.24 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:11:53 | 33.46 | 30.56 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:11:53 | 33.79 | 30.89 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:11:53 | 34.12 | 31.22 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:11:54 | 34.45 | 31.55 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:11:54 | 34.78 | 31.88 | 974 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:11:54 | 35.11 | 32.21 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 18:11:55 | 35.43 | 32.53 | 968 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 18:11:55 | 35.76 | 32.86 | 968 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 18:11:55 | 36.09 | 33.19 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:11:56 | 36.42 | 33.52 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:11:56 | 36.75 | 33.85 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:11:57 | 37.07 | 34.17 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:11:57 | 37.40 | 34.50 | 977 | 1.93 | 0.22 | 53.4 |
| 4/19/2015 18:11:57 | 37.73 | 34.83 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:11:58 | 38.06 | 35.16 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:11:58 | 38.39 | 35.49 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:11:58 | 38.71 | 35.81 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:11:59 | 39.04 | 36.14 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:11:59 | 39.37 | 36.47 | 994 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 18:11:59 | 39.70 | 36.80 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:12:00 | 40.03 | 37.13 | 998 | 1.93 | 0.22 | 54.6 |
| 4/19/2015 18:12:00 | 40.35 | 37.45 | 998 | 1.93 | 0.22 | 54.6 |
| 4/19/2015 18:12:00 | 40.68 | 37.78 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:12:01 | 41.01 | 38.11 | 990 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:12:02 | 41.34 | 38.44 | 990 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:12:02 | 41.67 | 38.77 | 967 | 1.93 | 0.22 | 52.9 |
| 4/19/2015 18:12:02 | 41.99 | 39.09 | 967 | 1.93 | 0.22 | 52.9 |
| 4/19/2015 18:12:03 | 42.32 | 39.42 | 967 | 1.93 | 0.22 | 52.9 |
| 4/19/2015 18:12:03 | 42.65 | 39.75 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:03 | 42.98 | 40.08 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:12:04 | 43.31 | 40.41 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:12:04 | 43.64 | 40.74 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:12:04 | 43.96 | 41.06 | 971 | 1.93 | 0.22 | 53.1 |
| 4/19/2015 18:12:05 | 44.29 | 41.39 | 987 | 1.93 | 0.22 | 54.0 |
| 4/19/2015 18:12:05 | 44.62 | 41.72 | 987 | 1.93 | 0.22 | 54.0 |
| 4/19/2015 18:12:05 | 44.95 | 42.05 | 988 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:12:06 | 45.28 | 42.38 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:06 | 45.60 | 42.70 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:06 | 45.93 | 43.03 | 980 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:07 | 46.26 | 43.36 | 968 | 1.93 | 0.22 | 53.0 |
| 4/19/2015 18:12:07 | 46.59 | 43.69 | 981 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:08 | 46.92 | 44.02 | 981 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:08 | 47.24 | 44.34 | 975 | 1.93 | 0.22 | 53.3 |
| 4/19/2015 18:12:08 | 47.57 | 44.67 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:12:09 | 47.90 | 45.00 | 978 | 1.93 | 0.22 | 53.5 |
| 4/19/2015 18:12:09 | 48.23 | 45.33 | 981 | 1.93 | 0.22 | 53.6 |
| 4/19/2015 18:12:24 | 48.56 | 45.66 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:12:27 | 48.88 | 45.98 | 86 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 18:12:28 | 49.21 | 46.31 | 149 | 1.93 | 0.22 | 8.1 |
| 4/19/2015 18:12:35 | 49.54 | 46.64 | 3 | 1.93 | 0.22 | 0.2 |
| 4/19/2015 18:12:36 | 49.87 | 46.97 | 147 | 1.93 | 0.22 | 8.0 |
| 4/19/2015 18:12:36 | 50.20 | 47.30 | 256 | 1.93 | 0.22 | 14.0 |
| 4/19/2015 18:12:38 | 50.53 | 47.63 | 420 | 1.93 | 0.22 | 23.0 |
| 4/19/2015 18:12:42 | 50.85 | 47.95 | 59 | 1.93 | 0.22 | 3.2 |
| 4/19/2015 18:12:47 | 51.18 | 48.28 | 0 | 1.93 | 0.22 | 0.0 |
| 4/19/2015 18:12:49 | 51.51 | 48.61 | 168 | 1.93 | 0.22 | 9.2 |
| 4/19/2015 18:12:50 | 51.84 | 48.94 | 199 | 1.93 | 0.22 | 10.9 |
| 4/19/2015 18:12:51 | 52.17 | 49.27 | 361 | 1.93 | 0.22 | 19.8 |
| 4/19/2015 18:12:52 | 52.49 | 49.59 | 399 | 1.93 | 0.22 | 21.8 |
| 4/19/2015 18:12:53 | 52.82 | 49.92 | 483 | 1.93 | 0.22 | 26.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 18:12:53 | 53.15 | 50.25 | 509 | 1.93 | 0.22 | 27.8 |
| 4/19/2015 | 18:12:54 | 53.48 | 50.58 | 466 | 1.93 | 0.22 | 25.5 |
| 4/19/2015 | 18:12:55 | 53.81 | 50.91 | 357 | 1.93 | 0.22 | 19.5 |
| 4/19/2015 | 18:12:56 | 54.13 | 51.23 | 334 | 1.93 | 0.22 | 18.3 |
| 4/19/2015 | 18:12:57 | 54.46 | 51.56 | 348 | 1.93 | 0.22 | 19.0 |
| 4/19/2015 | 18:12:58 | 54.79 | 51.89 | 425 | 1.93 | 0.22 | 23.3 |
| 4/19/2015 | 18:12:59 | 55.12 | 52.22 | 431 | 1.93 | 0.22 | 23.6 |
| 4/19/2015 | 18:13:01 | 55.45 | 52.55 | 216 | 1.93 | 0.22 | 11.8 |
| 4/19/2015 | 18:13:02 | 55.77 | 52.87 | 200 | 1.93 | 0.22 | 10.9 |
| 4/19/2015 | 18:13:03 | 56.10 | 53.20 | 309 | 1.93 | 0.22 | 16.9 |
| 4/19/2015 | 18:13:04 | 56.43 | 53.53 | 369 | 1.93 | 0.22 | 20.2 |
| 4/19/2015 | 18:13:05 | 56.76 | 53.86 | 345 | 1.93 | 0.22 | 18.9 |
| 4/19/2015 | 18:13:08 | 57.09 | 54.19 | 86 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 | 18:13:11 | 57.41 | 54.51 | 142 | 1.93 | 0.22 | 7.8 |
| 4/19/2015 | 18:13:13 | 57.74 | 54.84 | 188 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 | 18:13:15 | 58.07 | 55.17 | 188 | 1.93 | 0.22 | 10.3 |
| 4/19/2015 | 18:13:16 | 58.37 | 55.47 | 189 | 1.93 | 0.22 | 10.3 |

## E92 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 18:10:21

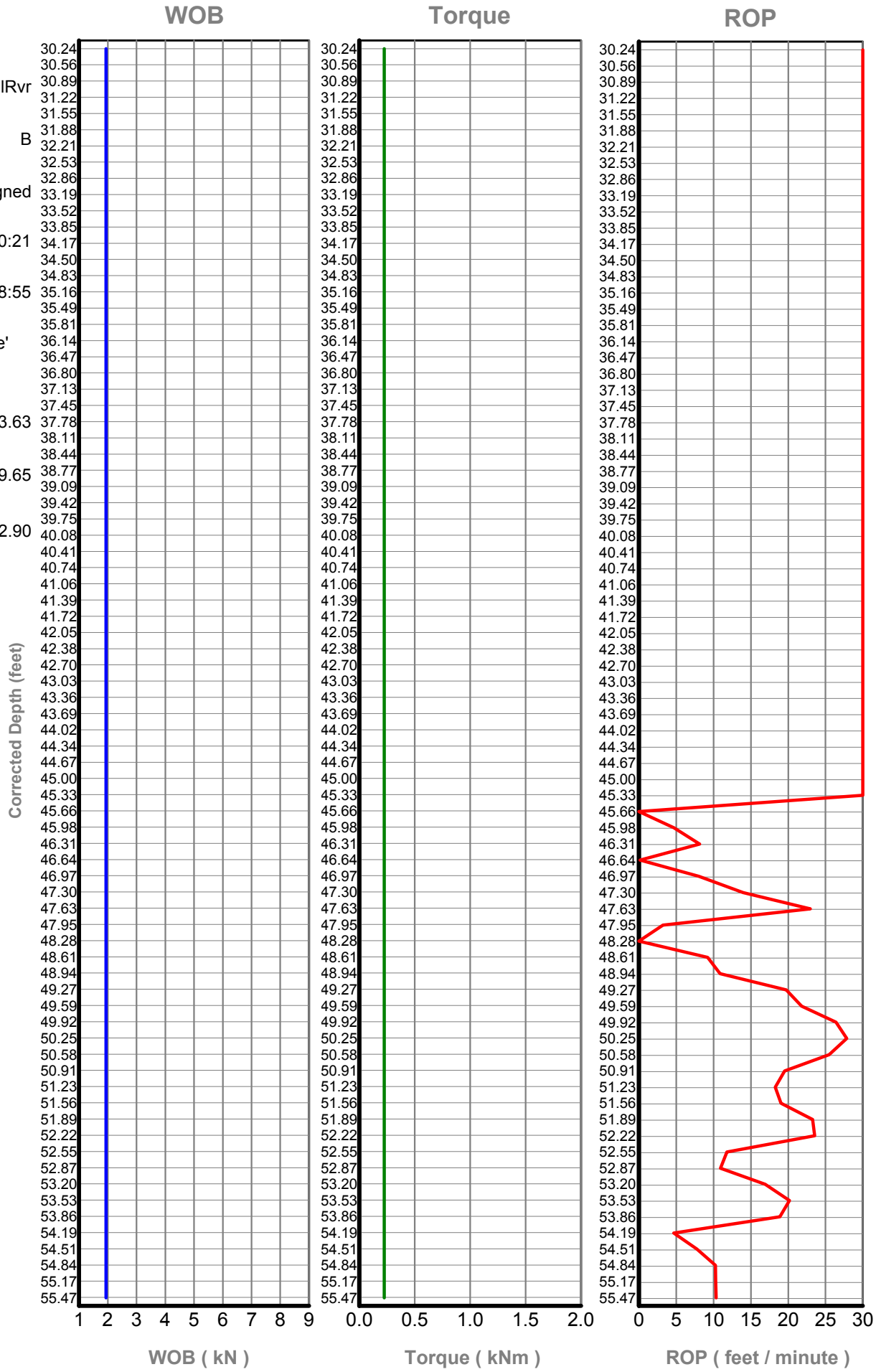
**End Date:**
4/19/2015 18:18:55

**Operator Note:**
'2.9 3.3 b Auto Complete'

**Northing:**
369,133.63

**Easting:**
253,839.65

**Tide (feet):**
2.90



## Hole: E93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 18:05:07 | 33.14 | 30.24 | 1,025 | 1.93 | 0.22 | 56.1 |
| 4/19/2015 18:05:07 | 33.46 | 30.56 | 1,014 | 1.93 | 0.22 | 55.4 |
| 4/19/2015 18:05:08 | 33.79 | 30.89 | 1,011 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:05:08 | 34.12 | 31.22 | 1,011 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:05:08 | 34.45 | 31.55 | 1,011 | 1.93 | 0.22 | 55.3 |
| 4/19/2015 18:05:09 | 34.78 | 31.88 | 1,014 | 1.93 | 0.22 | 55.4 |
| 4/19/2015 18:05:09 | 35.11 | 32.21 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:05:10 | 35.43 | 32.53 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:05:10 | 35.76 | 32.86 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:05:10 | 36.09 | 33.19 | 1,015 | 1.93 | 0.22 | 55.5 |
| 4/19/2015 18:05:11 | 36.42 | 33.52 | 1,015 | 1.93 | 0.22 | 55.5 |
| 4/19/2015 18:05:11 | 36.75 | 33.85 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:05:11 | 37.07 | 34.17 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 18:05:12 | 37.40 | 34.50 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 18:05:12 | 37.73 | 34.83 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:05:12 | 38.06 | 35.16 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:05:13 | 38.39 | 35.49 | 1,003 | 1.93 | 0.22 | 54.9 |
| 4/19/2015 18:05:13 | 38.71 | 35.81 | 997 | 1.93 | 0.22 | 54.5 |
| 4/19/2015 18:05:13 | 39.04 | 36.14 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:05:14 | 39.37 | 36.47 | 1,006 | 1.93 | 0.22 | 55.0 |
| 4/19/2015 18:05:14 | 39.70 | 36.80 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:05:14 | 40.03 | 37.13 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 18:05:15 | 40.35 | 37.45 | 1,009 | 1.93 | 0.22 | 55.2 |
| 4/19/2015 18:05:15 | 40.68 | 37.78 | 1,000 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:05:15 | 41.01 | 38.11 | 1,001 | 1.93 | 0.22 | 54.7 |
| 4/19/2015 18:05:16 | 41.34 | 38.44 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:05:16 | 41.67 | 38.77 | 992 | 1.93 | 0.22 | 54.2 |
| 4/19/2015 18:05:16 | 41.99 | 39.09 | 995 | 1.93 | 0.22 | 54.4 |
| 4/19/2015 18:05:17 | 42.32 | 39.42 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:05:18 | 42.65 | 39.75 | 989 | 1.93 | 0.22 | 54.1 |
| 4/19/2015 18:05:18 | 42.98 | 40.08 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:05:18 | 43.31 | 40.41 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:05:19 | 43.64 | 40.74 | 983 | 1.93 | 0.22 | 53.8 |
| 4/19/2015 18:05:19 | 43.96 | 41.06 | 986 | 1.93 | 0.22 | 53.9 |
| 4/19/2015 18:05:19 | 44.29 | 41.39 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:05:20 | 44.62 | 41.72 | 992 | 1.93 | 0.22 | 54.3 |
| 4/19/2015 18:05:31 | 44.95 | 42.05 | 7 | 1.93 | 0.22 | 0.4 |
| 4/19/2015 18:05:32 | 45.28 | 42.38 | 132 | 1.93 | 0.22 | 7.2 |
| 4/19/2015 18:05:33 | 45.60 | 42.70 | 245 | 1.93 | 0.22 | 13.4 |
| 4/19/2015 18:05:44 | 45.93 | 43.03 | 111 | 1.93 | 0.22 | 6.1 |
| 4/19/2015 18:05:49 | 46.26 | 43.36 | 3 | 1.93 | 0.22 | 0.2 |
| 4/19/2015 18:05:50 | 46.59 | 43.69 | 199 | 1.93 | 0.22 | 10.9 |
| 4/19/2015 18:05:52 | 46.92 | 44.02 | 329 | 1.93 | 0.22 | 18.0 |
| 4/19/2015 18:05:54 | 47.24 | 44.34 | 173 | 1.93 | 0.22 | 9.5 |
| 4/19/2015 18:05:55 | 47.57 | 44.67 | 225 | 1.93 | 0.22 | 12.3 |
| 4/19/2015 18:05:55 | 47.90 | 45.00 | 293 | 1.93 | 0.22 | 16.0 |
| 4/19/2015 18:05:57 | 48.23 | 45.33 | 270 | 1.93 | 0.22 | 14.8 |
| 4/19/2015 18:05:58 | 48.56 | 45.66 | 225 | 1.93 | 0.22 | 12.3 |
| 4/19/2015 18:05:59 | 48.88 | 45.98 | 226 | 1.93 | 0.22 | 12.4 |
| 4/19/2015 18:06:00 | 49.21 | 46.31 | 421 | 1.93 | 0.22 | 23.0 |
| 4/19/2015 18:06:00 | 49.54 | 46.64 | 459 | 1.93 | 0.22 | 25.1 |
| 4/19/2015 18:06:01 | 49.87 | 46.97 | 495 | 1.93 | 0.22 | 27.1 |
| 4/19/2015 18:06:03 | 50.20 | 47.30 | 431 | 1.93 | 0.22 | 23.6 |
| 4/19/2015 18:06:03 | 50.53 | 47.63 | 425 | 1.93 | 0.22 | 23.2 |
| 4/19/2015 18:06:05 | 50.85 | 47.95 | 343 | 1.93 | 0.22 | 18.8 |
| 4/19/2015 18:06:06 | 51.18 | 48.28 | 256 | 1.93 | 0.22 | 14.0 |
| 4/19/2015 18:06:08 | 51.51 | 48.61 | 160 | 1.93 | 0.22 | 8.7 |
| 4/19/2015 18:06:10 | 51.84 | 48.94 | 229 | 1.93 | 0.22 | 12.5 |
| 4/19/2015 18:06:11 | 52.17 | 49.27 | 263 | 1.93 | 0.22 | 14.4 |
| 4/19/2015 18:06:43 | 52.49 | 49.59 | 61 | 1.93 | 0.22 | 3.3 |
| 4/19/2015 18:06:45 | 52.82 | 49.92 | 168 | 1.93 | 0.22 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 18:06:48 | 53.15 | 50.25 | 155 | 1.93 | 0.22 | 8.5 |
| 4/19/2015 | 18:06:52 | 53.48 | 50.58 | 94 | 1.93 | 0.22 | 5.2 |
| 4/19/2015 | 18:06:57 | 53.81 | 50.91 | 62 | 1.93 | 0.22 | 3.4 |
| 4/19/2015 | 18:07:02 | 54.13 | 51.23 | 67 | 1.93 | 0.22 | 3.7 |
| 4/19/2015 | 18:07:07 | 54.46 | 51.56 | 69 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 | 18:07:13 | 54.79 | 51.89 | 69 | 1.93 | 0.22 | 3.8 |
| 4/19/2015 | 18:07:18 | 55.12 | 52.22 | 72 | 1.93 | 0.22 | 3.9 |
| 4/19/2015 | 18:07:22 | 55.45 | 52.55 | 80 | 1.93 | 0.22 | 4.4 |
| 4/19/2015 | 18:07:26 | 55.77 | 52.87 | 79 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 18:07:31 | 56.10 | 53.20 | 78 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 18:07:35 | 56.43 | 53.53 | 81 | 1.93 | 0.22 | 4.5 |
| 4/19/2015 | 18:07:40 | 56.76 | 53.86 | 78 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 18:07:44 | 57.09 | 54.19 | 85 | 1.93 | 0.22 | 4.7 |
| 4/19/2015 | 18:07:49 | 57.41 | 54.51 | 78 | 1.93 | 0.22 | 4.3 |
| 4/19/2015 | 18:07:53 | 57.74 | 54.84 | 87 | 1.93 | 0.22 | 4.8 |
| 4/19/2015 | 18:07:57 | 58.07 | 55.17 | 84 | 1.93 | 0.22 | 4.6 |
| 4/19/2015 | 18:07:59 | 58.26 | 55.36 | 84 | 1.93 | 0.22 | 4.6 |

## E93 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 18:03:39

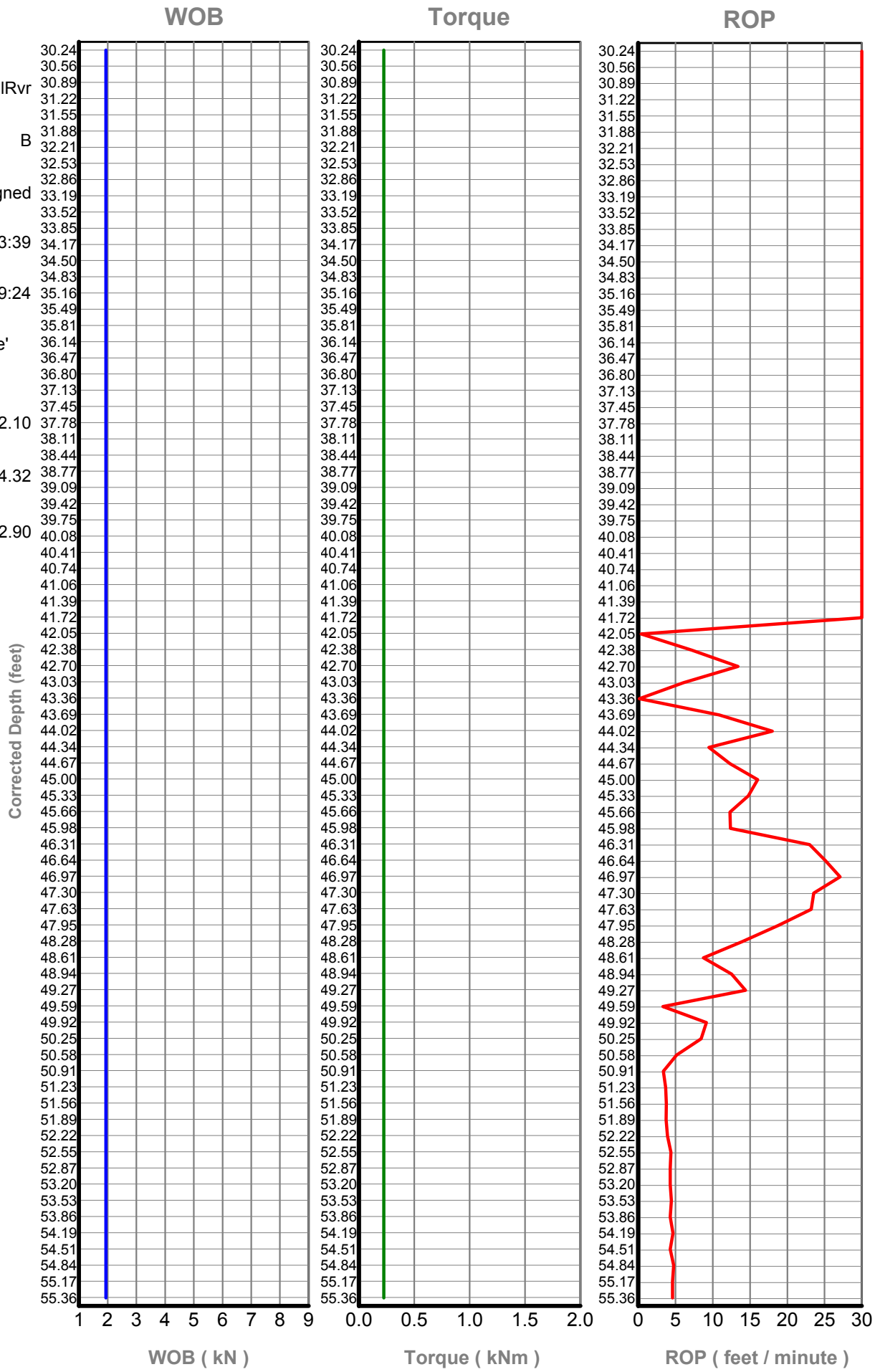
**End Date:**
4/19/2015 18:09:24

**Operator Note:**
'2.9 3.3 b Auto Complete'

**Northing:**
369,172.10

**Easting:**
253,884.32

**Tide (feet):**
2.90



## Hole: E94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/19/2015 17:56:22 | 33.14 | 30.04 | 995 | 0.33 | 0.33 | 54.4 |
| 4/19/2015 17:56:22 | 33.46 | 30.36 | 1,004 | 0.34 | 0.33 | 54.9 |
| 4/19/2015 17:56:23 | 33.79 | 30.69 | 1,004 | 0.34 | 0.33 | 54.9 |
| 4/19/2015 17:56:23 | 34.12 | 31.02 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/19/2015 17:56:23 | 34.45 | 31.35 | 998 | 0.33 | 0.34 | 54.6 |
| 4/19/2015 17:56:24 | 34.78 | 31.68 | 976 | 0.33 | 0.33 | 53.4 |
| 4/19/2015 17:56:24 | 35.11 | 32.01 | 976 | 0.33 | 0.33 | 53.4 |
| 4/19/2015 17:56:24 | 35.43 | 32.33 | 976 | 0.33 | 0.33 | 53.4 |
| 4/19/2015 17:56:25 | 35.76 | 32.66 | 1,000 | 0.33 | 0.34 | 54.7 |
| 4/19/2015 17:56:26 | 36.09 | 32.99 | 1,000 | 0.33 | 0.34 | 54.7 |
| 4/19/2015 17:56:26 | 36.42 | 33.32 | 988 | 0.33 | 0.33 | 54.0 |
| 4/19/2015 17:56:26 | 36.75 | 33.65 | 991 | 0.32 | 0.34 | 54.2 |
| 4/19/2015 17:56:27 | 37.07 | 33.97 | 991 | 0.32 | 0.34 | 54.2 |
| 4/19/2015 17:56:27 | 37.40 | 34.30 | 985 | 0.33 | 0.33 | 53.9 |
| 4/19/2015 17:56:27 | 37.73 | 34.63 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/19/2015 17:56:28 | 38.06 | 34.96 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/19/2015 17:56:28 | 38.39 | 35.29 | 997 | 0.36 | 0.34 | 54.5 |
| 4/19/2015 17:56:28 | 38.71 | 35.61 | 976 | 0.34 | 0.33 | 53.4 |
| 4/19/2015 17:56:29 | 39.04 | 35.94 | 976 | 0.34 | 0.33 | 53.4 |
| 4/19/2015 17:56:29 | 39.37 | 36.27 | 988 | 0.33 | 0.33 | 54.1 |
| 4/19/2015 17:56:29 | 39.70 | 36.60 | 988 | 0.33 | 0.33 | 54.1 |
| 4/19/2015 17:56:29 | 40.03 | 36.93 | 988 | 0.33 | 0.33 | 54.1 |
| 4/19/2015 17:56:30 | 40.35 | 37.25 | 988 | 0.33 | 0.33 | 54.1 |
| 4/19/2015 17:56:30 | 40.68 | 37.58 | 991 | 0.33 | 0.41 | 54.2 |
| 4/19/2015 17:56:31 | 41.01 | 37.91 | 989 | 0.33 | 0.34 | 54.1 |
| 4/19/2015 17:56:31 | 41.34 | 38.24 | 989 | 0.33 | 0.34 | 54.1 |
| 4/19/2015 17:56:31 | 41.67 | 38.57 | 980 | 0.32 | 0.34 | 53.6 |
| 4/19/2015 17:56:32 | 41.99 | 38.89 | 998 | 0.33 | 0.34 | 54.6 |
| 4/19/2015 17:56:32 | 42.32 | 39.22 | 998 | 0.33 | 0.34 | 54.6 |
| 4/19/2015 17:56:32 | 42.65 | 39.55 | 974 | 0.33 | 0.33 | 53.3 |
| 4/19/2015 17:56:33 | 42.98 | 39.88 | 977 | 0.29 | 0.33 | 53.4 |
| 4/19/2015 17:56:33 | 43.31 | 40.21 | 974 | 0.29 | 0.41 | 53.3 |
| 4/19/2015 17:57:01 | 43.64 | 40.54 | 32 | 4.22 | 0.37 | 1.8 |
| 4/19/2015 17:57:02 | 43.96 | 40.86 | 215 | 4.24 | 0.38 | 11.8 |
| 4/19/2015 17:57:03 | 44.29 | 41.19 | 346 | 3.43 | 0.37 | 18.9 |
| 4/19/2015 17:57:04 | 44.62 | 41.52 | 358 | 3.32 | 0.38 | 19.6 |
| 4/19/2015 17:57:05 | 44.95 | 41.85 | 329 | 3.11 | 0.37 | 18.0 |
| 4/19/2015 17:57:06 | 45.28 | 42.18 | 355 | 4.74 | 0.40 | 19.4 |
| 4/19/2015 17:57:21 | 45.60 | 42.50 | 74 | 2.95 | 0.38 | 4.1 |
| 4/19/2015 17:57:31 | 45.93 | 42.83 | 90 | 3.96 | 0.39 | 4.9 |
| 4/19/2015 17:57:32 | 46.26 | 43.16 | 159 | 3.92 | 0.41 | 8.7 |
| 4/19/2015 17:57:42 | 46.59 | 43.49 | 41 | 3.24 | 0.39 | 2.3 |
| 4/19/2015 17:57:50 | 46.92 | 43.82 | 78 | 3.33 | 0.38 | 4.3 |
| 4/19/2015 17:57:51 | 47.24 | 44.14 | 185 | 3.77 | 0.37 | 10.1 |
| 4/19/2015 17:57:52 | 47.57 | 44.47 | 266 | 4.08 | 0.40 | 14.6 |
| 4/19/2015 17:57:54 | 47.90 | 44.80 | 300 | 2.52 | 0.38 | 16.4 |
| 4/19/2015 17:57:54 | 48.23 | 45.13 | 313 | 2.97 | 0.38 | 17.1 |
| 4/19/2015 17:58:05 | 48.56 | 45.46 | 118 | 2.89 | 0.40 | 6.5 |
| 4/19/2015 17:58:06 | 48.88 | 45.78 | 205 | 3.03 | 0.38 | 11.2 |
| 4/19/2015 17:58:06 | 49.21 | 46.11 | 245 | 3.03 | 0.38 | 13.4 |
| 4/19/2015 17:58:07 | 49.54 | 46.44 | 375 | 2.81 | 0.36 | 20.5 |
| 4/19/2015 17:58:08 | 49.87 | 46.77 | 446 | 2.55 | 0.37 | 24.4 |
| 4/19/2015 17:58:09 | 50.20 | 47.10 | 491 | 2.32 | 0.37 | 26.9 |
| 4/19/2015 17:58:10 | 50.53 | 47.43 | 515 | 3.26 | 0.38 | 28.2 |
| 4/19/2015 17:58:11 | 50.85 | 47.75 | 424 | 2.75 | 0.37 | 23.2 |
| 4/19/2015 17:58:12 | 51.18 | 48.08 | 410 | 2.33 | 0.37 | 22.4 |
| 4/19/2015 17:58:13 | 51.51 | 48.41 | 407 | 3.07 | 0.38 | 22.3 |
| 4/19/2015 17:58:13 | 51.84 | 48.74 | 375 | 3.18 | 0.39 | 20.5 |
| 4/19/2015 17:58:15 | 52.17 | 49.07 | 367 | 3.52 | 0.40 | 20.1 |
| 4/19/2015 17:58:16 | 52.49 | 49.39 | 309 | 2.82 | 0.40 | 16.9 |
| 4/19/2015 17:58:18 | 52.82 | 49.72 | 214 | 2.78 | 0.37 | 11.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/19/2015 | 17:58:19 | 53.15 | 50.05 | 247 | 4.32 | 0.41 | 13.5 |
| 4/19/2015 | 17:58:22 | 53.48 | 50.38 | 228 | 4.70 | 0.38 | 12.5 |
| 4/19/2015 | 17:59:24 | 53.81 | 50.71 | 12 | 4.43 | 0.37 | 0.6 |
| 4/19/2015 | 17:59:25 | 54.13 | 51.03 | 168 | 3.38 | 0.39 | 9.2 |
| 4/19/2015 | 17:59:28 | 54.46 | 51.36 | 163 | 3.20 | 0.40 | 8.9 |
| 4/19/2015 | 17:59:32 | 54.79 | 51.69 | 72 | 2.89 | 0.41 | 4.0 |
| 4/19/2015 | 17:59:36 | 55.12 | 52.02 | 98 | 3.05 | 0.40 | 5.3 |
| 4/19/2015 | 18:00:58 | 55.45 | 52.35 | 29 | 3.07 | 0.39 | 1.6 |
| 4/19/2015 | 18:00:59 | 55.77 | 52.67 | 153 | 3.01 | 0.39 | 8.4 |
| 4/19/2015 | 18:01:01 | 56.10 | 53.00 | 237 | 2.87 | 0.38 | 13.0 |
| 4/19/2015 | 18:01:02 | 56.43 | 53.33 | 237 | 3.04 | 0.37 | 13.0 |
| 4/19/2015 | 18:01:03 | 56.76 | 53.66 | 315 | 3.04 | 0.39 | 17.3 |
| 4/19/2015 | 18:01:04 | 57.09 | 53.99 | 298 | 3.38 | 0.40 | 16.3 |
| 4/19/2015 | 18:01:06 | 57.41 | 54.31 | 273 | 2.92 | 0.38 | 15.0 |
| 4/19/2015 | 18:01:07 | 57.74 | 54.64 | 279 | 3.18 | 0.39 | 15.3 |
| 4/19/2015 | 18:01:09 | 58.07 | 54.97 | 281 | 3.18 | 0.39 | 15.3 |
| 4/19/2015 | 18:01:10 | 58.32 | 55.22 | 265 | 3.30 | 0.41 | 14.5 |

## E94 - Summary

**Pattern Number:**
AreaE_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/19/2015 17:54:31

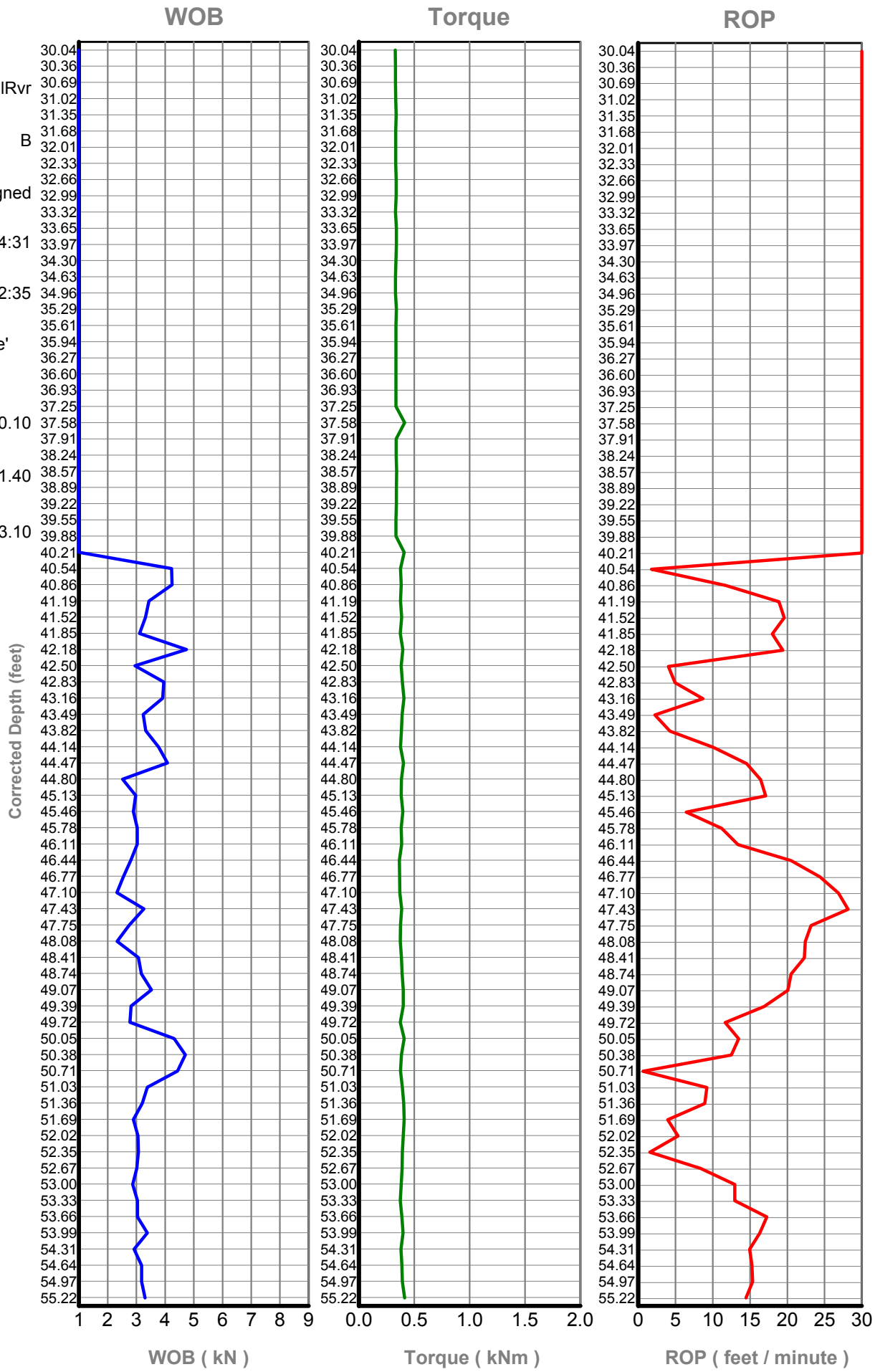
**End Date:**
4/19/2015 18:02:35

**Operator Note:**
'3.1 3.3 b Auto Complete'

**Northing:**
369,220.10

**Easting:**
253,941.40

**Tide (feet):**
3.10



## Hole: E95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 2:02:50 | 36.09 | 30.09 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:02:50 | 36.42 | 30.42 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:02:51 | 36.75 | 30.75 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:02:51 | 37.07 | 31.07 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:02:51 | 37.40 | 31.40 | 1,014 | 0.32 | 0.33 | 55.5 |
| 4/22/2015 2:02:52 | 37.73 | 31.73 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/22/2015 2:02:52 | 38.06 | 32.06 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/22/2015 2:02:52 | 38.39 | 32.39 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/22/2015 2:02:53 | 38.71 | 32.71 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/22/2015 2:02:53 | 39.04 | 33.04 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/22/2015 2:02:53 | 39.37 | 33.37 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/22/2015 2:02:54 | 39.70 | 33.70 | 1,013 | 0.32 | 0.32 | 55.4 |
| 4/22/2015 2:02:55 | 40.03 | 34.03 | 1,013 | 0.32 | 0.32 | 55.4 |
| 4/22/2015 2:02:55 | 40.35 | 34.35 | 1,021 | 0.32 | 0.33 | 55.9 |
| 4/22/2015 2:02:55 | 40.68 | 34.68 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 2:02:56 | 41.01 | 35.01 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 2:02:56 | 41.34 | 35.34 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/22/2015 2:02:56 | 41.67 | 35.67 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:02:57 | 41.99 | 35.99 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:02:57 | 42.32 | 36.32 | 1,033 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:02:57 | 42.65 | 36.65 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 2:02:58 | 42.98 | 36.98 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 2:02:58 | 43.31 | 37.31 | 1,024 | 0.33 | 0.32 | 56.0 |
| 4/22/2015 2:02:58 | 43.64 | 37.64 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/22/2015 2:02:59 | 43.96 | 37.96 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/22/2015 2:02:59 | 44.29 | 38.29 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 2:02:59 | 44.62 | 38.62 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 2:03:00 | 44.95 | 38.95 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 2:03:00 | 45.28 | 39.28 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:03:00 | 45.60 | 39.60 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 2:03:01 | 45.93 | 39.93 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/22/2015 2:03:01 | 46.26 | 40.26 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/22/2015 2:03:01 | 46.59 | 40.59 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:03:02 | 46.92 | 40.92 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 2:03:02 | 47.24 | 41.24 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 2:03:02 | 47.57 | 41.57 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/22/2015 2:03:03 | 47.90 | 41.90 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/22/2015 2:03:03 | 48.23 | 42.23 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 2:03:03 | 48.56 | 42.56 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 2:03:04 | 48.88 | 42.88 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/22/2015 2:03:04 | 49.21 | 43.21 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/22/2015 2:03:05 | 49.54 | 43.54 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 2:03:05 | 49.87 | 43.87 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/22/2015 2:03:05 | 50.20 | 44.20 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/22/2015 2:03:06 | 50.53 | 44.53 | 1,032 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:03:06 | 50.85 | 44.85 | 1,032 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:03:06 | 51.18 | 45.18 | 1,032 | 0.32 | 0.32 | 56.5 |
| 4/22/2015 2:03:07 | 51.51 | 45.51 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/22/2015 2:03:07 | 51.84 | 45.84 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/22/2015 2:03:07 | 52.17 | 46.17 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/22/2015 2:03:08 | 52.49 | 46.49 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/22/2015 2:03:08 | 52.82 | 46.82 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/22/2015 2:03:08 | 53.15 | 47.15 | 1,006 | 0.31 | 0.34 | 55.0 |
| 4/22/2015 2:03:16 | 53.48 | 47.48 | 7 | 4.43 | 0.40 | 0.4 |
| 4/22/2015 2:03:20 | 53.81 | 47.81 | 81 | 4.72 | 0.37 | 4.4 |
| 4/22/2015 2:03:24 | 54.13 | 48.13 | 85 | 3.48 | 0.39 | 4.6 |
| 4/22/2015 2:03:27 | 54.46 | 48.46 | 103 | 4.30 | 0.38 | 5.7 |
| 4/22/2015 2:03:54 | 54.79 | 48.79 | 9 | 4.32 | 0.38 | 0.5 |
| 4/22/2015 2:03:55 | 55.12 | 49.12 | 137 | 3.34 | 0.37 | 7.5 |
| 4/22/2015 2:03:56 | 55.45 | 49.45 | 308 | 3.30 | 0.37 | 16.9 |
| 4/22/2015 2:03:59 | 55.77 | 49.77 | 0 | 2.74 | 0.37 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 2:04:00 | 56.10 | 50.10 | 165 | 2.25 | 0.38 | 9.0 |
| 4/22/2015 | 2:04:01 | 56.43 | 50.43 | 271 | 2.04 | 0.35 | 14.8 |
| 4/22/2015 | 2:04:01 | 56.76 | 50.76 | 399 | 1.98 | 0.35 | 21.8 |
| 4/22/2015 | 2:04:02 | 57.09 | 51.09 | 537 | 2.03 | 0.36 | 29.3 |
| 4/22/2015 | 2:04:02 | 57.41 | 51.41 | 578 | 2.06 | 0.36 | 31.6 |
| 4/22/2015 | 2:04:03 | 57.74 | 51.74 | 603 | 2.06 | 0.35 | 33.0 |
| 4/22/2015 | 2:04:04 | 58.07 | 52.07 | 595 | 2.10 | 0.36 | 32.6 |
| 4/22/2015 | 2:04:04 | 58.40 | 52.40 | 570 | 2.08 | 0.36 | 31.1 |
| 4/22/2015 | 2:04:05 | 58.73 | 52.73 | 567 | 2.13 | 0.36 | 31.0 |
| 4/22/2015 | 2:04:06 | 59.06 | 53.06 | 526 | 2.99 | 0.38 | 28.8 |
| 4/22/2015 | 2:04:07 | 59.38 | 53.38 | 467 | 2.36 | 0.36 | 25.5 |
| 4/22/2015 | 2:04:08 | 59.71 | 53.71 | 455 | 2.27 | 0.37 | 24.9 |
| 4/22/2015 | 2:04:09 | 60.04 | 54.04 | 405 | 2.85 | 0.38 | 22.1 |
| 4/22/2015 | 2:04:10 | 60.37 | 54.37 | 411 | 2.29 | 0.37 | 22.5 |
| 4/22/2015 | 2:04:10 | 60.70 | 54.70 | 385 | 2.42 | 0.38 | 21.0 |
| 4/22/2015 | 2:04:11 | 60.94 | 54.94 | 355 | 2.65 | 0.38 | 19.4 |

## E95 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:58:29

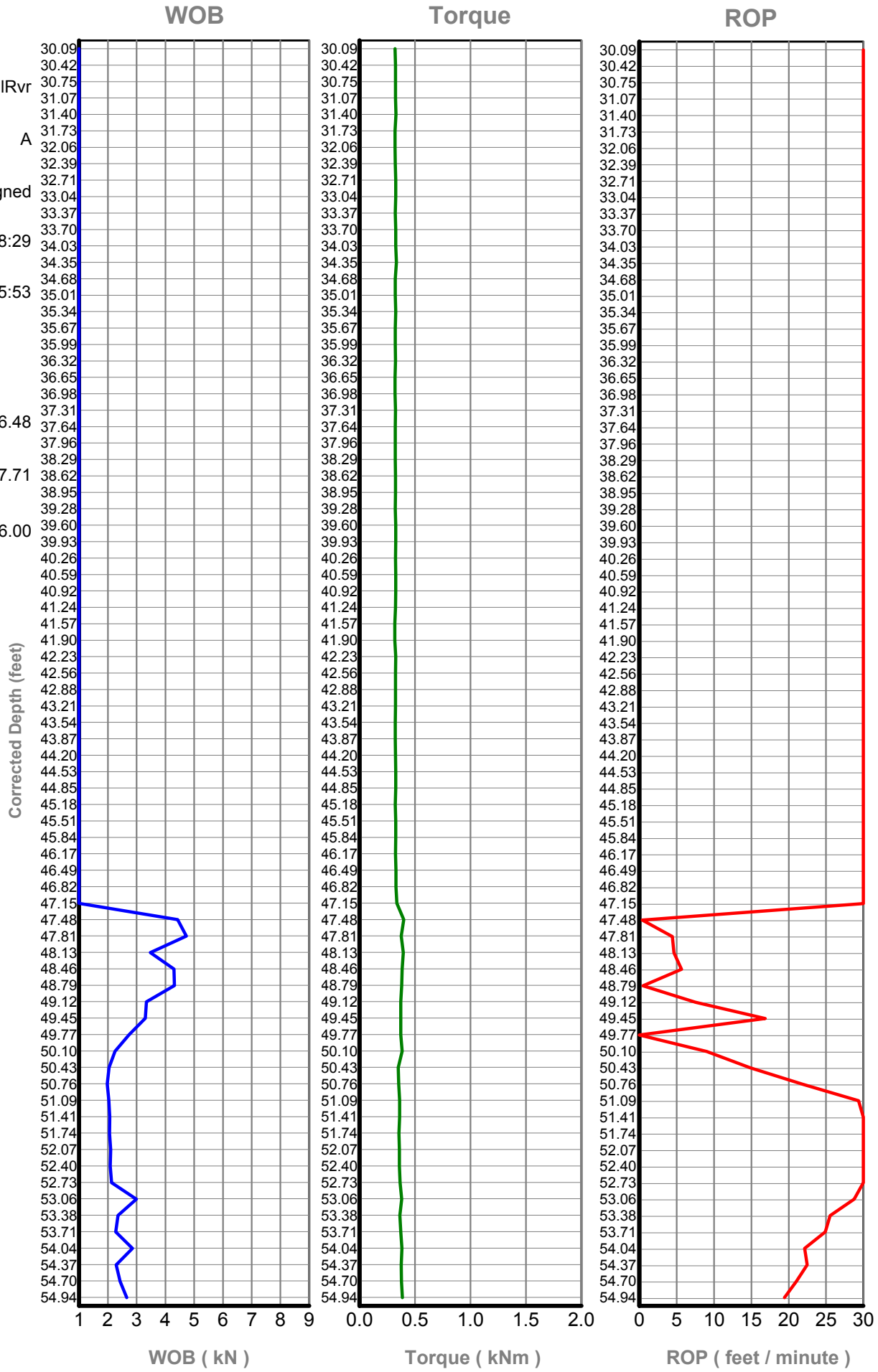
**End Date:**
4/22/2015 2:05:53

**Operator Note:**
'6 5.8 b Auto Complete'

**Northing:**
368,126.48

**Easting:**
252,707.71

**Tide (feet):**
6.00



## Hole: E96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 1:52:59 | 36.09 | 30.19 | 1,412 | 3.25 | 0.16 | 77.2 |
| 4/22/2015 1:52:59 | 36.42 | 30.52 | 1,411 | 3.24 | 0.16 | 77.2 |
| 4/22/2015 1:52:59 | 36.75 | 30.85 | 1,411 | 3.24 | 0.16 | 77.2 |
| 4/22/2015 1:52:59 | 37.07 | 31.17 | 1,411 | 3.24 | 0.16 | 77.2 |
| 4/22/2015 1:52:59 | 37.40 | 31.50 | 1,418 | 3.23 | 0.15 | 77.5 |
| 4/22/2015 1:53:00 | 37.73 | 31.83 | 1,418 | 3.23 | 0.15 | 77.5 |
| 4/22/2015 1:53:00 | 38.06 | 32.16 | 1,440 | 3.25 | 0.16 | 78.8 |
| 4/22/2015 1:53:00 | 38.39 | 32.49 | 1,440 | 3.25 | 0.16 | 78.8 |
| 4/22/2015 1:53:00 | 38.71 | 32.81 | 1,422 | 3.26 | 0.16 | 77.8 |
| 4/22/2015 1:53:01 | 39.04 | 33.14 | 1,422 | 3.26 | 0.16 | 77.8 |
| 4/22/2015 1:53:01 | 39.37 | 33.47 | 1,406 | 3.25 | 0.16 | 76.9 |
| 4/22/2015 1:53:01 | 39.70 | 33.80 | 1,406 | 3.25 | 0.16 | 76.9 |
| 4/22/2015 1:53:01 | 40.03 | 34.13 | 1,433 | 3.26 | 0.15 | 78.3 |
| 4/22/2015 1:53:02 | 40.35 | 34.45 | 1,433 | 3.26 | 0.15 | 78.3 |
| 4/22/2015 1:53:02 | 40.68 | 34.78 | 1,418 | 3.23 | 0.16 | 77.5 |
| 4/22/2015 1:53:02 | 41.01 | 35.11 | 1,418 | 3.23 | 0.16 | 77.5 |
| 4/22/2015 1:53:02 | 41.34 | 35.44 | 1,427 | 3.24 | 0.15 | 78.0 |
| 4/22/2015 1:53:03 | 41.67 | 35.77 | 1,427 | 3.24 | 0.15 | 78.0 |
| 4/22/2015 1:53:03 | 41.99 | 36.09 | 1,427 | 3.23 | 0.16 | 78.0 |
| 4/22/2015 1:53:03 | 42.32 | 36.42 | 1,427 | 3.23 | 0.16 | 78.0 |
| 4/22/2015 1:53:04 | 42.65 | 36.75 | 1,432 | 3.26 | 0.16 | 78.3 |
| 4/22/2015 1:53:04 | 42.98 | 37.08 | 1,432 | 3.26 | 0.16 | 78.3 |
| 4/22/2015 1:53:04 | 43.31 | 37.41 | 1,423 | 3.25 | 0.16 | 77.8 |
| 4/22/2015 1:53:04 | 43.64 | 37.74 | 1,423 | 3.25 | 0.16 | 77.8 |
| 4/22/2015 1:53:05 | 43.96 | 38.06 | 1,426 | 3.24 | 0.15 | 78.0 |
| 4/22/2015 1:53:05 | 44.29 | 38.39 | 1,426 | 3.24 | 0.15 | 78.0 |
| 4/22/2015 1:53:05 | 44.62 | 38.72 | 1,426 | 3.22 | 0.16 | 78.0 |
| 4/22/2015 1:53:05 | 44.95 | 39.05 | 1,426 | 3.22 | 0.16 | 78.0 |
| 4/22/2015 1:53:06 | 45.28 | 39.38 | 1,426 | 3.24 | 0.16 | 78.0 |
| 4/22/2015 1:53:06 | 45.60 | 39.70 | 1,426 | 3.24 | 0.16 | 78.0 |
| 4/22/2015 1:53:06 | 45.93 | 40.03 | 1,426 | 3.24 | 0.16 | 78.0 |
| 4/22/2015 1:53:06 | 46.26 | 40.36 | 1,409 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 1:53:06 | 46.59 | 40.69 | 1,409 | 3.22 | 0.16 | 77.0 |
| 4/22/2015 1:53:07 | 46.92 | 41.02 | 1,409 | 3.26 | 0.16 | 77.0 |
| 4/22/2015 1:53:07 | 47.24 | 41.34 | 1,409 | 3.26 | 0.16 | 77.0 |
| 4/22/2015 1:53:07 | 47.57 | 41.67 | 1,409 | 3.26 | 0.16 | 77.0 |
| 4/22/2015 1:53:07 | 47.90 | 42.00 | 1,409 | 3.26 | 0.16 | 77.0 |
| 4/22/2015 1:53:08 | 48.23 | 42.33 | 1,420 | 3.23 | 0.16 | 77.7 |
| 4/22/2015 1:53:08 | 48.56 | 42.66 | 1,420 | 3.23 | 0.16 | 77.7 |
| 4/22/2015 1:53:08 | 48.88 | 42.98 | 1,411 | 3.26 | 0.16 | 77.2 |
| 4/22/2015 1:53:08 | 49.21 | 43.31 | 1,411 | 3.26 | 0.16 | 77.2 |
| 4/22/2015 1:53:09 | 49.54 | 43.64 | 1,415 | 3.25 | 0.16 | 77.4 |
| 4/22/2015 1:53:09 | 49.87 | 43.97 | 1,415 | 3.25 | 0.16 | 77.4 |
| 4/22/2015 1:53:09 | 50.20 | 44.30 | 1,432 | 3.23 | 0.16 | 78.3 |
| 4/22/2015 1:53:10 | 50.53 | 44.63 | 1,432 | 3.23 | 0.16 | 78.3 |
| 4/22/2015 1:53:10 | 50.85 | 44.95 | 1,429 | 3.25 | 0.16 | 78.1 |
| 4/22/2015 1:53:10 | 51.18 | 45.28 | 1,429 | 3.25 | 0.16 | 78.1 |
| 4/22/2015 1:53:10 | 51.51 | 45.61 | 1,423 | 3.26 | 0.16 | 77.8 |
| 4/22/2015 1:53:11 | 51.84 | 45.94 | 1,423 | 3.26 | 0.16 | 77.8 |
| 4/22/2015 1:53:11 | 52.17 | 46.27 | 1,420 | 3.26 | 0.16 | 77.6 |
| 4/22/2015 1:53:11 | 52.49 | 46.59 | 1,420 | 3.26 | 0.16 | 77.6 |
| 4/22/2015 1:53:11 | 52.82 | 46.92 | 1,414 | 3.24 | 0.16 | 77.3 |
| 4/22/2015 1:53:12 | 53.15 | 47.25 | 1,414 | 3.24 | 0.16 | 77.3 |
| 4/22/2015 1:53:12 | 53.48 | 47.58 | 1,428 | 1.38 | 0.16 | 78.1 |
| 4/22/2015 1:53:35 | 53.81 | 47.91 | 18 | 2.07 | 1.45 | 1.0 |
| 4/22/2015 1:53:41 | 54.13 | 48.23 | 95 | 1.93 | 1.21 | 5.2 |
| 4/22/2015 1:53:42 | 54.46 | 48.56 | 191 | 1.42 | 1.32 | 10.4 |
| 4/22/2015 1:53:45 | 54.79 | 48.89 | 50 | 2.02 | 1.14 | 2.7 |
| 4/22/2015 1:53:46 | 55.12 | 49.22 | 119 | 3.35 | 1.12 | 6.5 |
| 4/22/2015 1:53:46 | 55.45 | 49.55 | 319 | 3.60 | 1.26 | 17.4 |
| 4/22/2015 1:53:54 | 55.77 | 49.87 | 102 | 2.05 | 1.21 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 1:53:59 | 56.10 | 50.20 | 10 | 1.96 | 1.21 | 0.5 |
| 4/22/2015 | 1:54:03 | 56.43 | 50.53 | 84 | 2.05 | 1.24 | 4.6 |
| 4/22/2015 | 1:54:07 | 56.76 | 50.86 | 93 | 2.03 | 1.20 | 5.1 |
| 4/22/2015 | 1:54:09 | 57.09 | 51.19 | 139 | 2.16 | 1.20 | 7.6 |
| 4/22/2015 | 1:54:13 | 57.41 | 51.51 | 64 | 2.08 | 1.26 | 3.5 |
| 4/22/2015 | 1:54:20 | 57.74 | 51.84 | 38 | 2.12 | 1.15 | 2.1 |
| 4/22/2015 | 1:54:26 | 58.07 | 52.17 | 60 | 2.09 | 1.23 | 3.3 |
| 4/22/2015 | 1:54:31 | 58.40 | 52.50 | 69 | 2.08 | 1.27 | 3.8 |
| 4/22/2015 | 1:54:36 | 58.64 | 52.74 | 49 | 2.11 | 1.24 | 2.7 |

## E96 - Summary

**Pattern Number:**
AreaE_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 1:51:39

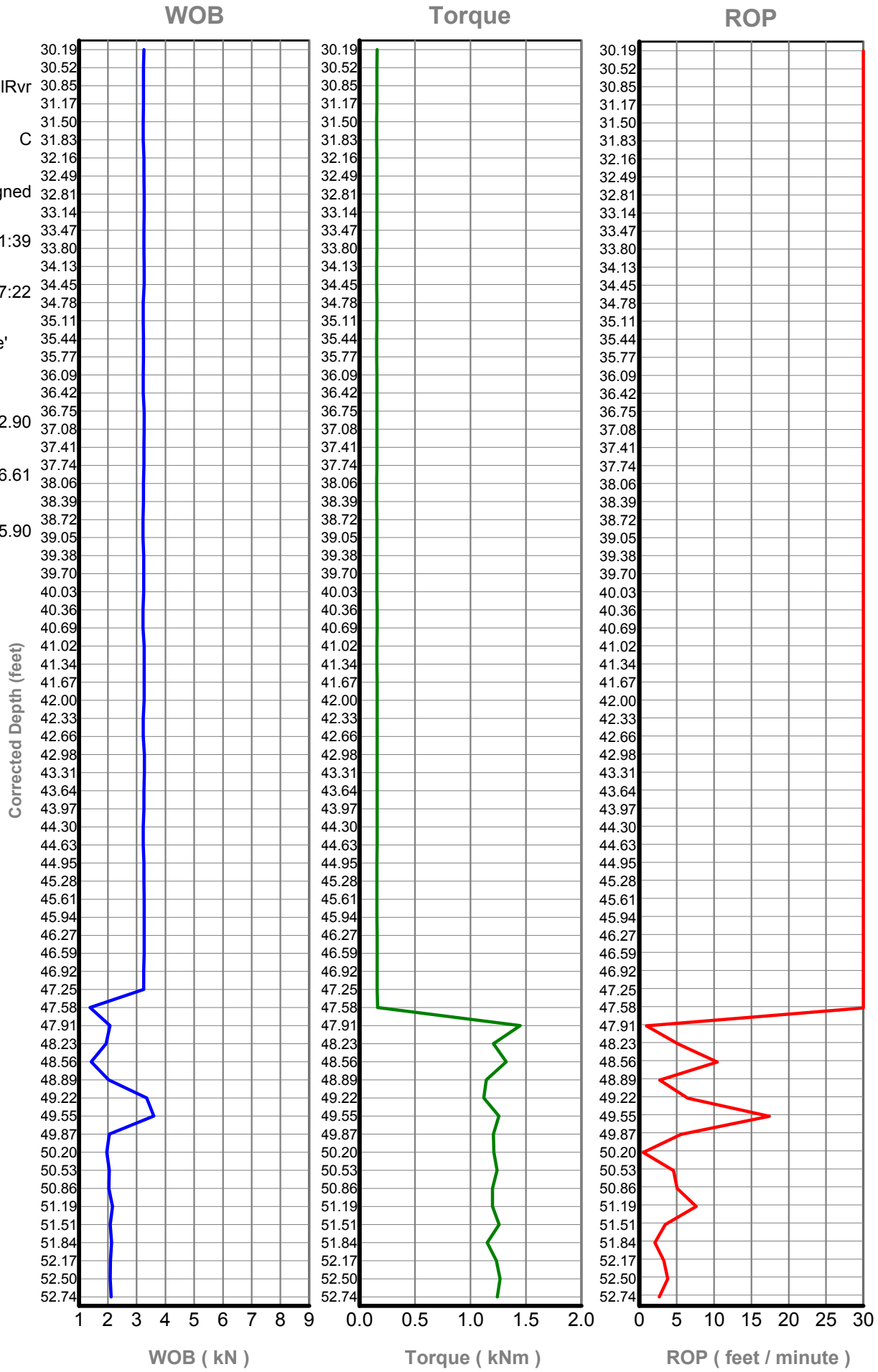
**End Date:**
4/22/2015 1:57:22

**Operator Note:**
'5.9 5.6 c Auto Complete'

**Northing:**
368,172.90

**Easting:**
252,766.61

**Tide (feet):**
5.90



## Hole: E97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:19:35 | 30.51 | 30.01 | 799 | 0.40 | 0.34 | 43.7 |
| 4/21/2015 23:19:36 | 30.84 | 30.34 | 824 | 0.40 | 0.34 | 45.0 |
| 4/21/2015 23:19:36 | 31.17 | 30.67 | 808 | 0.40 | 0.34 | 44.2 |
| 4/21/2015 23:19:37 | 31.50 | 31.00 | 822 | 0.40 | 0.34 | 44.9 |
| 4/21/2015 23:19:38 | 31.82 | 31.32 | 822 | 0.40 | 0.34 | 44.9 |
| 4/21/2015 23:19:37 | 32.15 | 31.65 | 806 | 0.41 | 0.34 | 44.1 |
| 4/21/2015 23:19:38 | 32.48 | 31.98 | 806 | 0.40 | 0.34 | 44.1 |
| 4/21/2015 23:19:39 | 32.81 | 32.31 | 793 | 0.40 | 0.34 | 43.3 |
| 4/21/2015 23:19:39 | 33.14 | 32.64 | 787 | 0.40 | 0.34 | 43.0 |
| 4/21/2015 23:19:40 | 33.46 | 32.96 | 787 | 0.40 | 0.34 | 43.0 |
| 4/21/2015 23:19:40 | 33.79 | 33.29 | 787 | 0.40 | 0.34 | 43.0 |
| 4/21/2015 23:19:40 | 34.12 | 33.62 | 809 | 0.41 | 0.34 | 44.2 |
| 4/21/2015 23:19:41 | 34.45 | 33.95 | 802 | 0.40 | 0.34 | 43.8 |
| 4/21/2015 23:19:41 | 34.78 | 34.28 | 802 | 0.39 | 0.34 | 43.8 |
| 4/21/2015 23:19:42 | 35.11 | 34.61 | 821 | 0.40 | 0.34 | 44.9 |
| 4/21/2015 23:19:42 | 35.43 | 34.93 | 809 | 0.39 | 0.34 | 44.3 |
| 4/21/2015 23:19:43 | 35.76 | 35.26 | 809 | 0.39 | 0.34 | 44.3 |
| 4/21/2015 23:19:43 | 36.09 | 35.59 | 809 | 0.39 | 0.34 | 44.3 |
| 4/21/2015 23:19:43 | 36.42 | 35.92 | 802 | 0.40 | 0.34 | 43.9 |
| 4/21/2015 23:19:44 | 36.75 | 36.25 | 791 | 0.33 | 0.34 | 43.2 |
| 4/21/2015 23:19:44 | 37.07 | 36.57 | 800 | 0.40 | 0.34 | 43.8 |
| 4/21/2015 23:19:45 | 37.40 | 36.90 | 800 | 0.40 | 0.34 | 43.8 |
| 4/21/2015 23:19:45 | 37.73 | 37.23 | 800 | 0.40 | 0.34 | 43.8 |
| 4/21/2015 23:19:45 | 38.06 | 37.56 | 816 | 0.40 | 0.34 | 44.6 |
| 4/21/2015 23:19:46 | 38.39 | 37.89 | 804 | 0.40 | 0.34 | 44.0 |
| 4/21/2015 23:19:46 | 38.71 | 38.21 | 821 | 0.40 | 0.34 | 44.9 |
| 4/21/2015 23:19:47 | 39.04 | 38.54 | 817 | 0.40 | 0.34 | 44.7 |
| 4/21/2015 23:19:47 | 39.37 | 38.87 | 817 | 0.40 | 0.34 | 44.7 |
| 4/21/2015 23:19:48 | 39.70 | 39.20 | 817 | 0.40 | 0.34 | 44.7 |
| 4/21/2015 23:19:48 | 40.03 | 39.53 | 817 | 0.40 | 0.34 | 44.7 |
| 4/21/2015 23:19:49 | 40.35 | 39.85 | 804 | 0.40 | 0.34 | 43.9 |
| 4/21/2015 23:19:49 | 40.68 | 40.18 | 822 | 0.43 | 0.34 | 44.9 |
| 4/21/2015 23:19:50 | 41.01 | 40.51 | 816 | 0.40 | 0.34 | 44.6 |
| 4/21/2015 23:19:50 | 41.34 | 40.84 | 816 | 0.40 | 0.34 | 44.6 |
| 4/21/2015 23:19:51 | 41.67 | 41.17 | 816 | 0.40 | 0.34 | 44.6 |
| 4/21/2015 23:19:51 | 41.99 | 41.49 | 828 | 0.40 | 0.34 | 45.3 |
| 4/21/2015 23:19:51 | 42.32 | 41.82 | 809 | 0.40 | 0.34 | 44.2 |
| 4/21/2015 23:19:52 | 42.65 | 42.15 | 814 | 0.40 | 0.33 | 44.5 |
| 4/21/2015 23:19:52 | 42.98 | 42.48 | 812 | 0.40 | 0.34 | 44.4 |
| 4/21/2015 23:19:53 | 43.31 | 42.81 | 810 | 0.40 | 0.34 | 44.3 |
| 4/21/2015 23:19:53 | 43.64 | 43.14 | 810 | 0.40 | 0.34 | 44.3 |
| 4/21/2015 23:19:54 | 43.96 | 43.46 | 810 | 0.40 | 0.34 | 44.3 |
| 4/21/2015 23:19:54 | 44.29 | 43.79 | 802 | 0.40 | 0.34 | 43.9 |
| 4/21/2015 23:19:54 | 44.62 | 44.12 | 818 | 0.22 | 0.34 | 44.8 |
| 4/21/2015 23:19:55 | 44.95 | 44.45 | 810 | 0.40 | 0.34 | 44.3 |
| 4/21/2015 23:19:55 | 45.28 | 44.78 | 810 | 0.40 | 0.34 | 44.3 |
| 4/21/2015 23:19:56 | 45.60 | 45.10 | 828 | 0.40 | 0.34 | 45.3 |
| 4/21/2015 23:19:56 | 45.93 | 45.43 | 828 | 0.40 | 0.34 | 45.3 |
| 4/21/2015 23:19:56 | 46.26 | 45.76 | 819 | 0.40 | 0.34 | 44.8 |
| 4/21/2015 23:19:57 | 46.59 | 46.09 | 820 | 0.37 | 0.34 | 44.9 |
| 4/21/2015 23:19:57 | 46.92 | 46.42 | 825 | 0.40 | 0.34 | 45.1 |
| 4/21/2015 23:19:58 | 47.24 | 46.74 | 820 | 0.38 | 0.37 | 44.8 |
| 4/21/2015 23:20:25 | 47.57 | 47.07 | 0 | 3.76 | 0.40 | 0.0 |
| 4/21/2015 23:20:30 | 47.90 | 47.40 | 64 | 4.05 | 0.40 | 3.5 |
| 4/21/2015 23:20:38 | 48.23 | 47.73 | 47 | 3.67 | 0.41 | 2.6 |
| 4/21/2015 23:20:45 | 48.56 | 48.06 | 63 | 3.94 | 0.40 | 3.5 |
| 4/21/2015 23:20:49 | 48.88 | 48.38 | 72 | 4.13 | 0.40 | 4.0 |
| 4/21/2015 23:20:54 | 49.21 | 48.71 | 81 | 3.88 | 0.40 | 4.4 |
| 4/21/2015 23:21:05 | 49.54 | 49.04 | 49 | 3.71 | 0.40 | 2.7 |
| 4/21/2015 23:21:11 | 49.87 | 49.37 | 57 | 3.92 | 0.40 | 3.1 |
| 4/21/2015 23:21:13 | 49.95 | 49.45 | 58 | 4.70 | 0.41 | 3.2 |

## E97 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/21/2015 22:27:24

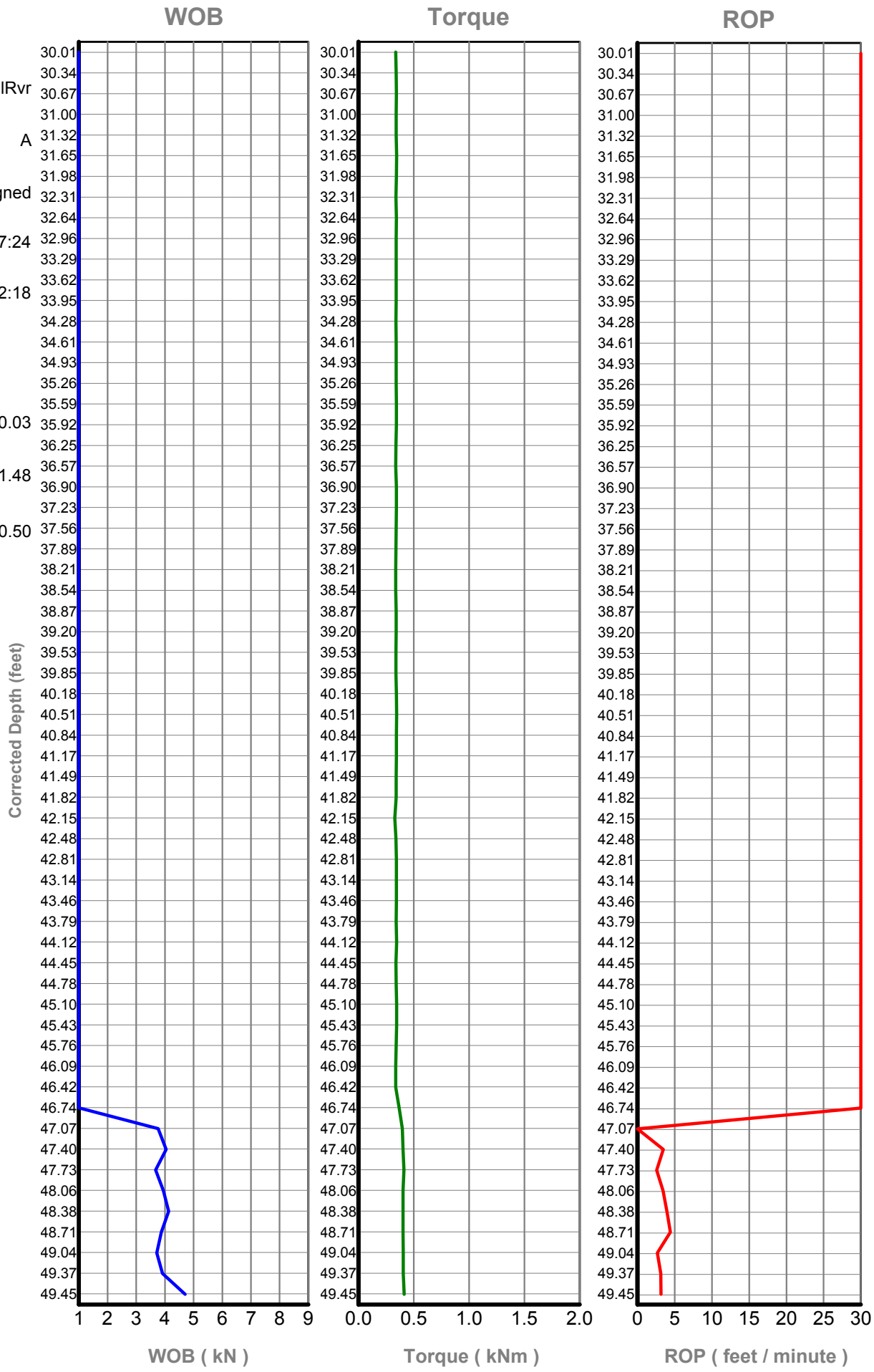
**End Date:**
4/21/2015 23:22:18

**Operator Note:**
'0.5 '1.5 1.1 b Auto Complete'

**Northing:**
368,220.03

**Easting:**
252,831.48

**Tide (feet):**
0.50



## Hole: E98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:23:42 | 31.82 | 30.32 | 1,469 | 3.23 | 0.15 | 80.3 |
| 4/21/2015 23:23:42 | 32.15 | 30.65 | 1,480 | 3.21 | 0.15 | 80.9 |
| 4/21/2015 23:23:43 | 32.48 | 30.98 | 1,480 | 3.21 | 0.15 | 80.9 |
| 4/21/2015 23:23:43 | 32.81 | 31.31 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:43 | 33.14 | 31.64 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:43 | 33.46 | 31.96 | 1,469 | 3.21 | 0.15 | 80.3 |
| 4/21/2015 23:23:44 | 33.79 | 32.29 | 1,469 | 3.21 | 0.15 | 80.3 |
| 4/21/2015 23:23:44 | 34.12 | 32.62 | 1,460 | 3.24 | 0.15 | 79.8 |
| 4/21/2015 23:23:44 | 34.45 | 32.95 | 1,460 | 3.24 | 0.15 | 79.8 |
| 4/21/2015 23:23:45 | 34.78 | 33.28 | 1,474 | 3.22 | 0.15 | 80.6 |
| 4/21/2015 23:23:45 | 35.11 | 33.61 | 1,474 | 3.22 | 0.15 | 80.6 |
| 4/21/2015 23:23:45 | 35.43 | 33.93 | 1,460 | 3.25 | 0.15 | 79.8 |
| 4/21/2015 23:23:45 | 35.76 | 34.26 | 1,460 | 3.25 | 0.15 | 79.8 |
| 4/21/2015 23:23:46 | 36.09 | 34.59 | 1,460 | 3.25 | 0.15 | 79.8 |
| 4/21/2015 23:23:46 | 36.42 | 34.92 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:46 | 36.75 | 35.25 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:46 | 37.07 | 35.57 | 1,463 | 3.28 | 0.15 | 80.0 |
| 4/21/2015 23:23:46 | 37.40 | 35.90 | 1,463 | 3.28 | 0.15 | 80.0 |
| 4/21/2015 23:23:47 | 37.73 | 36.23 | 1,478 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:23:47 | 38.06 | 36.56 | 1,478 | 3.22 | 0.15 | 80.8 |
| 4/21/2015 23:23:47 | 38.39 | 36.89 | 1,463 | 3.20 | 0.15 | 80.0 |
| 4/21/2015 23:23:47 | 38.71 | 37.21 | 1,463 | 3.20 | 0.15 | 80.0 |
| 4/21/2015 23:23:48 | 39.04 | 37.54 | 1,474 | 3.24 | 0.15 | 80.6 |
| 4/21/2015 23:23:48 | 39.37 | 37.87 | 1,474 | 3.24 | 0.15 | 80.6 |
| 4/21/2015 23:23:48 | 39.70 | 38.20 | 1,466 | 3.23 | 0.15 | 80.2 |
| 4/21/2015 23:23:48 | 40.03 | 38.53 | 1,466 | 3.23 | 0.15 | 80.2 |
| 4/21/2015 23:23:49 | 40.35 | 38.85 | 1,471 | 3.24 | 0.15 | 80.5 |
| 4/21/2015 23:23:49 | 40.68 | 39.18 | 1,471 | 3.24 | 0.15 | 80.5 |
| 4/21/2015 23:23:49 | 41.01 | 39.51 | 1,471 | 3.24 | 0.15 | 80.5 |
| 4/21/2015 23:23:49 | 41.34 | 39.84 | 1,466 | 3.23 | 0.15 | 80.1 |
| 4/21/2015 23:23:50 | 41.67 | 40.17 | 1,466 | 3.23 | 0.15 | 80.1 |
| 4/21/2015 23:23:50 | 41.99 | 40.49 | 1,468 | 3.22 | 0.15 | 80.3 |
| 4/21/2015 23:23:50 | 42.32 | 40.82 | 1,468 | 3.22 | 0.15 | 80.3 |
| 4/21/2015 23:23:50 | 42.65 | 41.15 | 1,457 | 3.22 | 0.15 | 79.7 |
| 4/21/2015 23:23:51 | 42.98 | 41.48 | 1,457 | 3.22 | 0.15 | 79.7 |
| 4/21/2015 23:23:51 | 43.31 | 41.81 | 1,471 | 3.23 | 0.15 | 80.5 |
| 4/21/2015 23:23:51 | 43.64 | 42.14 | 1,471 | 3.23 | 0.15 | 80.5 |
| 4/21/2015 23:23:51 | 43.96 | 42.46 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:52 | 44.29 | 42.79 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:52 | 44.62 | 43.12 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:52 | 44.95 | 43.45 | 1,466 | 3.22 | 0.15 | 80.1 |
| 4/21/2015 23:23:52 | 45.28 | 43.78 | 1,447 | 3.22 | 0.15 | 79.1 |
| 4/21/2015 23:23:53 | 45.60 | 44.10 | 1,447 | 3.22 | 0.15 | 79.1 |
| 4/21/2015 23:23:53 | 45.93 | 44.43 | 1,468 | 2.04 | 0.15 | 80.3 |
| 4/21/2015 23:24:08 | 46.26 | 44.76 | 26 | 1.96 | 1.24 | 1.4 |
| 4/21/2015 23:24:13 | 46.59 | 45.09 | 105 | 1.85 | 1.26 | 5.8 |
| 4/21/2015 23:24:18 | 46.92 | 45.42 | 0 | 3.28 | 1.07 | 0.0 |
| 4/21/2015 23:24:19 | 47.24 | 45.74 | 127 | 1.89 | 1.41 | 6.9 |
| 4/21/2015 23:24:21 | 47.57 | 46.07 | 216 | 1.93 | 1.27 | 11.8 |
| 4/21/2015 23:24:37 | 47.90 | 46.40 | 21 | 2.09 | 1.26 | 1.2 |
| 4/21/2015 23:24:51 | 48.23 | 46.73 | 29 | 2.06 | 1.18 | 1.6 |
| 4/21/2015 23:25:04 | 48.56 | 47.06 | 31 | 2.10 | 1.12 | 1.7 |
| 4/21/2015 23:25:09 | 48.74 | 47.24 | 35 | 2.00 | 1.19 | 1.9 |

## E98 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:22:42

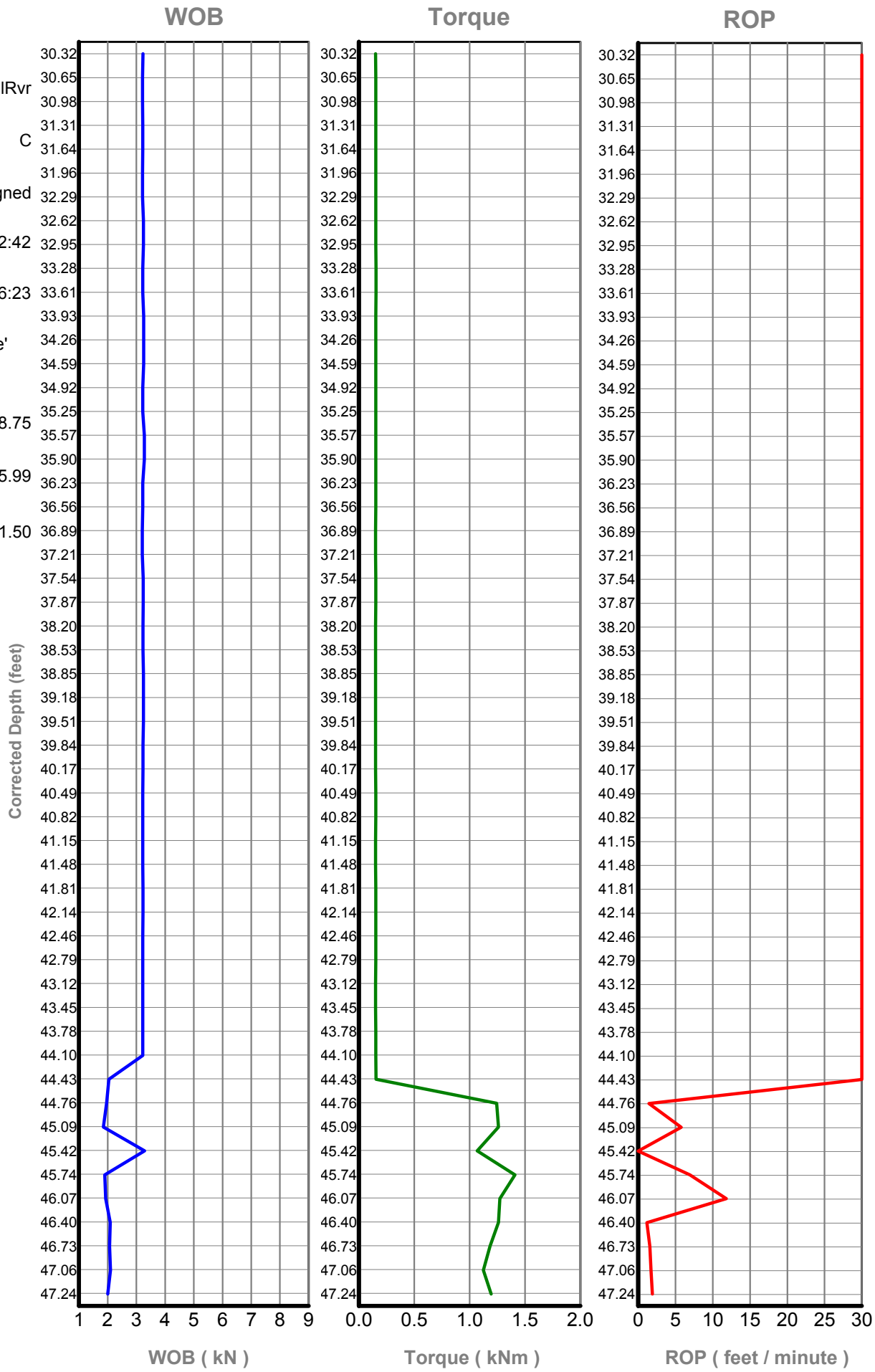
**End Date:**
4/21/2015 23:26:23

**Operator Note:**
'1.5 1.1 c Auto Complete'

**Northing:**
368,258.75

**Easting:**
252,875.99

**Tide (feet):**
1.50



## Hole: E99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/21/2015 23:18:34 | 31.82 | 30.32 | 1,402 | 3.24 | 0.15 | 76.7 |
| 4/21/2015 23:18:34 | 32.15 | 30.65 | 1,416 | 3.24 | 0.15 | 77.5 |
| 4/21/2015 23:18:34 | 32.48 | 30.98 | 1,416 | 3.24 | 0.15 | 77.5 |
| 4/21/2015 23:18:35 | 32.81 | 31.31 | 1,411 | 3.23 | 0.15 | 77.1 |
| 4/21/2015 23:18:35 | 33.14 | 31.64 | 1,411 | 3.23 | 0.15 | 77.1 |
| 4/21/2015 23:18:35 | 33.46 | 31.96 | 1,414 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 23:18:35 | 33.79 | 32.29 | 1,414 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 23:18:36 | 34.12 | 32.62 | 1,414 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 23:18:36 | 34.45 | 32.95 | 1,414 | 3.25 | 0.15 | 77.3 |
| 4/21/2015 23:18:36 | 34.78 | 33.28 | 1,419 | 3.25 | 0.15 | 77.6 |
| 4/21/2015 23:18:36 | 35.11 | 33.61 | 1,419 | 3.25 | 0.15 | 77.6 |
| 4/21/2015 23:18:37 | 35.43 | 33.93 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/21/2015 23:18:37 | 35.76 | 34.26 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/21/2015 23:18:37 | 36.09 | 34.59 | 1,413 | 3.24 | 0.15 | 77.3 |
| 4/21/2015 23:18:37 | 36.42 | 34.92 | 1,387 | 3.23 | 0.15 | 75.8 |
| 4/21/2015 23:18:38 | 36.75 | 35.25 | 1,387 | 3.23 | 0.15 | 75.8 |
| 4/21/2015 23:18:38 | 37.07 | 35.57 | 1,387 | 3.26 | 0.15 | 75.8 |
| 4/21/2015 23:18:38 | 37.40 | 35.90 | 1,387 | 3.26 | 0.15 | 75.8 |
| 4/21/2015 23:18:38 | 37.73 | 36.23 | 1,393 | 3.24 | 0.15 | 76.2 |
| 4/21/2015 23:18:39 | 38.06 | 36.56 | 1,393 | 3.24 | 0.15 | 76.2 |
| 4/21/2015 23:18:39 | 38.39 | 36.89 | 1,380 | 3.25 | 0.15 | 75.5 |
| 4/21/2015 23:18:39 | 38.71 | 37.21 | 1,380 | 3.25 | 0.15 | 75.5 |
| 4/21/2015 23:18:39 | 39.04 | 37.54 | 1,371 | 3.22 | 0.15 | 75.0 |
| 4/21/2015 23:18:40 | 39.37 | 37.87 | 1,371 | 3.22 | 0.15 | 75.0 |
| 4/21/2015 23:18:40 | 39.70 | 38.20 | 1,371 | 3.27 | 0.15 | 75.0 |
| 4/21/2015 23:18:40 | 40.03 | 38.53 | 1,371 | 3.27 | 0.15 | 75.0 |
| 4/21/2015 23:18:40 | 40.35 | 38.85 | 1,369 | 3.24 | 0.15 | 74.9 |
| 4/21/2015 23:18:41 | 40.68 | 39.18 | 1,369 | 3.24 | 0.15 | 74.9 |
| 4/21/2015 23:18:41 | 41.01 | 39.51 | 1,369 | 3.25 | 0.15 | 74.9 |
| 4/21/2015 23:18:41 | 41.34 | 39.84 | 1,369 | 3.25 | 0.15 | 74.9 |
| 4/21/2015 23:18:42 | 41.67 | 40.17 | 1,407 | 3.26 | 0.15 | 76.9 |
| 4/21/2015 23:18:42 | 41.99 | 40.49 | 1,407 | 3.26 | 0.15 | 76.9 |
| 4/21/2015 23:18:42 | 42.32 | 40.82 | 1,410 | 3.24 | 0.15 | 77.1 |
| 4/21/2015 23:18:42 | 42.65 | 41.15 | 1,410 | 3.24 | 0.15 | 77.1 |
| 4/21/2015 23:18:43 | 42.98 | 41.48 | 1,408 | 3.24 | 0.15 | 77.0 |
| 4/21/2015 23:18:43 | 43.31 | 41.81 | 1,408 | 3.24 | 0.15 | 77.0 |
| 4/21/2015 23:18:43 | 43.64 | 42.14 | 1,428 | 3.23 | 0.15 | 78.1 |
| 4/21/2015 23:18:43 | 43.96 | 42.46 | 1,428 | 3.23 | 0.15 | 78.1 |
| 4/21/2015 23:18:44 | 44.29 | 42.79 | 1,428 | 3.24 | 0.15 | 78.1 |
| 4/21/2015 23:18:44 | 44.62 | 43.12 | 1,428 | 3.24 | 0.15 | 78.1 |
| 4/21/2015 23:18:44 | 44.95 | 43.45 | 1,438 | 3.24 | 0.15 | 78.7 |
| 4/21/2015 23:18:44 | 45.28 | 43.78 | 1,438 | 3.24 | 0.15 | 78.7 |
| 4/21/2015 23:18:45 | 45.60 | 44.10 | 1,438 | 3.24 | 0.15 | 78.7 |
| 4/21/2015 23:18:45 | 45.93 | 44.43 | 1,438 | 3.27 | 0.15 | 78.7 |
| 4/21/2015 23:19:05 | 46.26 | 44.76 | 0 | 1.87 | 1.18 | 0.0 |
| 4/21/2015 23:19:14 | 46.59 | 45.09 | 0 | 2.00 | 1.47 | 0.0 |
| 4/21/2015 23:19:16 | 46.92 | 45.42 | 122 | 1.91 | 1.19 | 6.7 |
| 4/21/2015 23:19:21 | 47.24 | 45.74 | 69 | 2.02 | 1.33 | 3.8 |
| 4/21/2015 23:19:26 | 47.57 | 46.07 | 72 | 2.00 | 1.24 | 4.0 |
| 4/21/2015 23:19:32 | 47.90 | 46.40 | 72 | 1.98 | 1.28 | 3.9 |
| 4/21/2015 23:19:36 | 48.23 | 46.73 | 72 | 1.98 | 1.25 | 4.0 |
| 4/21/2015 23:19:39 | 48.44 | 46.94 | 75 | 1.99 | 1.26 | 4.1 |

## E99 - Summary

**Pattern Number:**
AreaE_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/21/2015 23:17:28

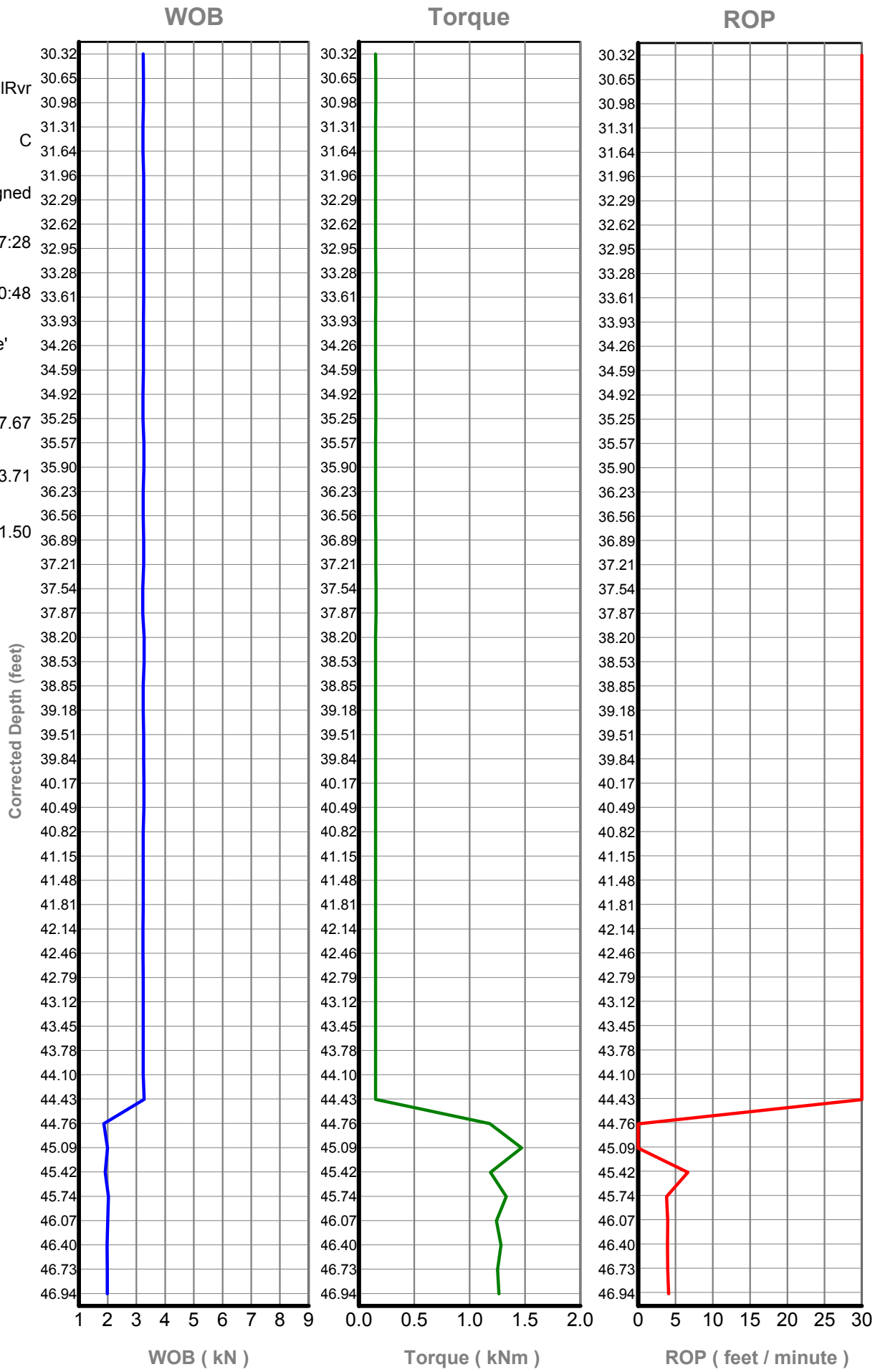
**End Date:**
4/21/2015 23:20:48

**Operator Note:**
'1.5 1.1 c Auto Complete'

**Northing:**
368,307.67

**Easting:**
252,933.71

**Tide (feet):**
1.50



## Hole: F1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:36:58 | 32.15 | 30.15 | 372 | 1.59 | 0.31 | 20.3 |
| 4/23/2015 9:36:59 | 32.48 | 30.48 | 370 | 1.62 | 0.31 | 20.2 |
| 4/23/2015 9:36:59 | 32.81 | 30.81 | 370 | 1.59 | 0.31 | 20.2 |
| 4/23/2015 9:37:00 | 33.14 | 31.14 | 377 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 9:37:01 | 33.46 | 31.46 | 378 | 1.62 | 0.30 | 20.7 |
| 4/23/2015 9:37:02 | 33.79 | 31.79 | 376 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 9:37:04 | 34.12 | 32.12 | 376 | 1.62 | 0.30 | 20.5 |
| 4/23/2015 9:37:04 | 34.45 | 32.45 | 364 | 1.61 | 0.31 | 19.9 |
| 4/23/2015 9:37:05 | 34.78 | 32.78 | 371 | 1.59 | 0.30 | 20.3 |
| 4/23/2015 9:37:06 | 35.11 | 33.11 | 367 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 9:37:07 | 35.43 | 33.43 | 371 | 1.61 | 0.31 | 20.3 |
| 4/23/2015 9:37:08 | 35.76 | 33.76 | 366 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 9:37:09 | 36.09 | 34.09 | 374 | 1.60 | 0.31 | 20.4 |
| 4/23/2015 9:37:10 | 36.42 | 34.42 | 370 | 1.59 | 0.31 | 20.2 |
| 4/23/2015 9:37:11 | 36.75 | 34.75 | 382 | 1.61 | 0.31 | 20.9 |
| 4/23/2015 9:37:12 | 37.07 | 35.07 | 377 | 1.62 | 0.30 | 20.6 |
| 4/23/2015 9:37:13 | 37.40 | 35.40 | 375 | 1.62 | 0.31 | 20.5 |
| 4/23/2015 9:37:14 | 37.73 | 35.73 | 367 | 1.62 | 0.30 | 20.1 |
| 4/23/2015 9:37:15 | 38.06 | 36.06 | 367 | 1.60 | 0.31 | 20.1 |
| 4/23/2015 9:37:16 | 38.39 | 36.39 | 373 | 1.61 | 0.31 | 20.4 |
| 4/23/2015 9:37:17 | 38.71 | 36.71 | 373 | 1.59 | 0.31 | 20.4 |
| 4/23/2015 9:37:18 | 39.04 | 37.04 | 373 | 1.60 | 0.31 | 20.4 |
| 4/23/2015 9:37:19 | 39.37 | 37.37 | 372 | 1.60 | 0.31 | 20.3 |
| 4/23/2015 9:37:20 | 39.70 | 37.70 | 380 | 1.62 | 0.31 | 20.8 |
| 4/23/2015 9:37:21 | 40.03 | 38.03 | 373 | 1.61 | 0.31 | 20.4 |
| 4/23/2015 9:37:22 | 40.35 | 38.35 | 375 | 1.58 | 0.32 | 20.5 |
| 4/23/2015 9:37:23 | 40.68 | 38.68 | 373 | 1.60 | 0.31 | 20.4 |
| 4/23/2015 9:37:23 | 41.01 | 39.01 | 371 | 1.60 | 0.31 | 20.3 |
| 4/23/2015 9:37:24 | 41.34 | 39.34 | 373 | 1.61 | 0.31 | 20.4 |
| 4/23/2015 9:37:25 | 41.67 | 39.67 | 365 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 9:37:27 | 41.99 | 39.99 | 371 | 1.61 | 0.31 | 20.3 |
| 4/23/2015 9:37:28 | 42.32 | 40.32 | 367 | 1.60 | 0.31 | 20.0 |
| 4/23/2015 9:37:29 | 42.65 | 40.65 | 375 | 1.61 | 0.31 | 20.5 |
| 4/23/2015 9:37:30 | 42.98 | 40.98 | 364 | 1.60 | 0.31 | 19.9 |
| 4/23/2015 9:37:30 | 43.31 | 41.31 | 364 | 1.61 | 0.31 | 19.9 |
| 4/23/2015 9:37:31 | 43.64 | 41.64 | 365 | 1.60 | 0.31 | 20.0 |
| 4/23/2015 9:37:32 | 43.96 | 41.96 | 366 | 1.60 | 0.31 | 20.0 |
| 4/23/2015 9:37:33 | 44.29 | 42.29 | 372 | 1.62 | 0.31 | 20.4 |
| 4/23/2015 9:37:34 | 44.62 | 42.62 | 371 | 1.59 | 0.31 | 20.3 |
| 4/23/2015 9:37:35 | 44.95 | 42.95 | 364 | 1.61 | 0.31 | 19.9 |
| 4/23/2015 9:37:36 | 45.28 | 43.28 | 372 | 1.59 | 0.31 | 20.3 |
| 4/23/2015 9:37:37 | 45.60 | 43.60 | 365 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 9:37:38 | 45.93 | 43.93 | 366 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 9:37:39 | 46.26 | 44.26 | 360 | 1.60 | 0.31 | 19.7 |
| 4/23/2015 9:37:40 | 46.59 | 44.59 | 370 | 1.60 | 0.32 | 20.2 |
| 4/23/2015 9:37:41 | 46.92 | 44.92 | 372 | 1.53 | 0.31 | 20.3 |
| 4/23/2015 9:37:42 | 47.24 | 45.24 | 370 | 1.61 | 0.31 | 20.2 |
| 4/23/2015 9:37:43 | 47.57 | 45.57 | 368 | 1.61 | 0.31 | 20.1 |
| 4/23/2015 9:37:44 | 47.90 | 45.90 | 370 | 1.61 | 0.32 | 20.3 |
| 4/23/2015 9:37:45 | 48.23 | 46.23 | 367 | 1.59 | 0.31 | 20.1 |
| 4/23/2015 9:37:46 | 48.56 | 46.56 | 362 | 1.62 | 0.32 | 19.8 |
| 4/23/2015 9:37:47 | 48.88 | 46.88 | 368 | 1.61 | 0.32 | 20.1 |
| 4/23/2015 9:37:48 | 49.21 | 47.21 | 364 | 1.61 | 0.32 | 19.9 |
| 4/23/2015 9:37:49 | 49.54 | 47.54 | 364 | 1.61 | 0.31 | 19.9 |
| 4/23/2015 9:37:50 | 49.87 | 47.87 | 342 | 1.61 | 0.31 | 18.7 |
| 4/23/2015 9:38:08 | 50.20 | 48.20 | 76 | 1.61 | 1.11 | 4.2 |
| 4/23/2015 9:38:09 | 50.53 | 48.53 | 137 | 1.61 | 1.23 | 7.5 |
| 4/23/2015 9:38:10 | 50.85 | 48.85 | 281 | 1.62 | 1.14 | 15.4 |
| 4/23/2015 9:38:12 | 51.18 | 49.18 | 323 | 1.60 | 1.13 | 17.7 |
| 4/23/2015 9:38:13 | 51.51 | 49.51 | 279 | 1.60 | 1.11 | 15.2 |
| 4/23/2015 9:38:14 | 51.84 | 49.84 | 274 | 1.60 | 1.10 | 15.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:38:15 | 52.17 | 50.17 | 297 | 1.60 | 1.11 | 16.2 |
| 4/23/2015 | 9:38:16 | 52.49 | 50.49 | 323 | 1.61 | 1.10 | 17.7 |
| 4/23/2015 | 9:38:17 | 52.82 | 50.82 | 334 | 1.62 | 1.09 | 18.3 |
| 4/23/2015 | 9:38:19 | 53.15 | 51.15 | 336 | 1.61 | 1.07 | 18.4 |
| 4/23/2015 | 9:38:20 | 53.48 | 51.48 | 343 | 1.62 | 1.05 | 18.7 |
| 4/23/2015 | 9:38:24 | 53.81 | 51.81 | 6 | 1.61 | 1.09 | 0.3 |
| 4/23/2015 | 9:38:26 | 54.13 | 52.13 | 50 | 1.60 | 1.02 | 2.7 |
| 4/23/2015 | 9:38:27 | 54.46 | 52.46 | 212 | 1.59 | 1.32 | 11.6 |
| 4/23/2015 | 9:38:29 | 54.79 | 52.79 | 249 | 1.59 | 1.11 | 13.6 |
| 4/23/2015 | 9:38:35 | 55.12 | 53.12 | 78 | 1.57 | 1.22 | 4.2 |
| 4/23/2015 | 9:38:36 | 55.45 | 53.45 | 164 | 1.59 | 0.99 | 9.0 |
| 4/23/2015 | 9:38:37 | 55.77 | 53.77 | 225 | 1.60 | 1.16 | 12.3 |
| 4/23/2015 | 9:38:42 | 56.10 | 54.10 | 95 | 1.59 | 1.14 | 5.2 |
| 4/23/2015 | 9:38:45 | 56.43 | 54.43 | 110 | 1.61 | 1.20 | 6.0 |
| 4/23/2015 | 9:38:52 | 56.76 | 54.76 | 31 | 1.59 | 1.22 | 1.7 |
| 4/23/2015 | 9:38:54 | 57.09 | 55.09 | 124 | 1.60 | 1.10 | 6.8 |
| 4/23/2015 | 9:38:56 | 57.36 | 55.36 | 146 | 1.59 | 1.15 | 8.0 |

## F1 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:34:36

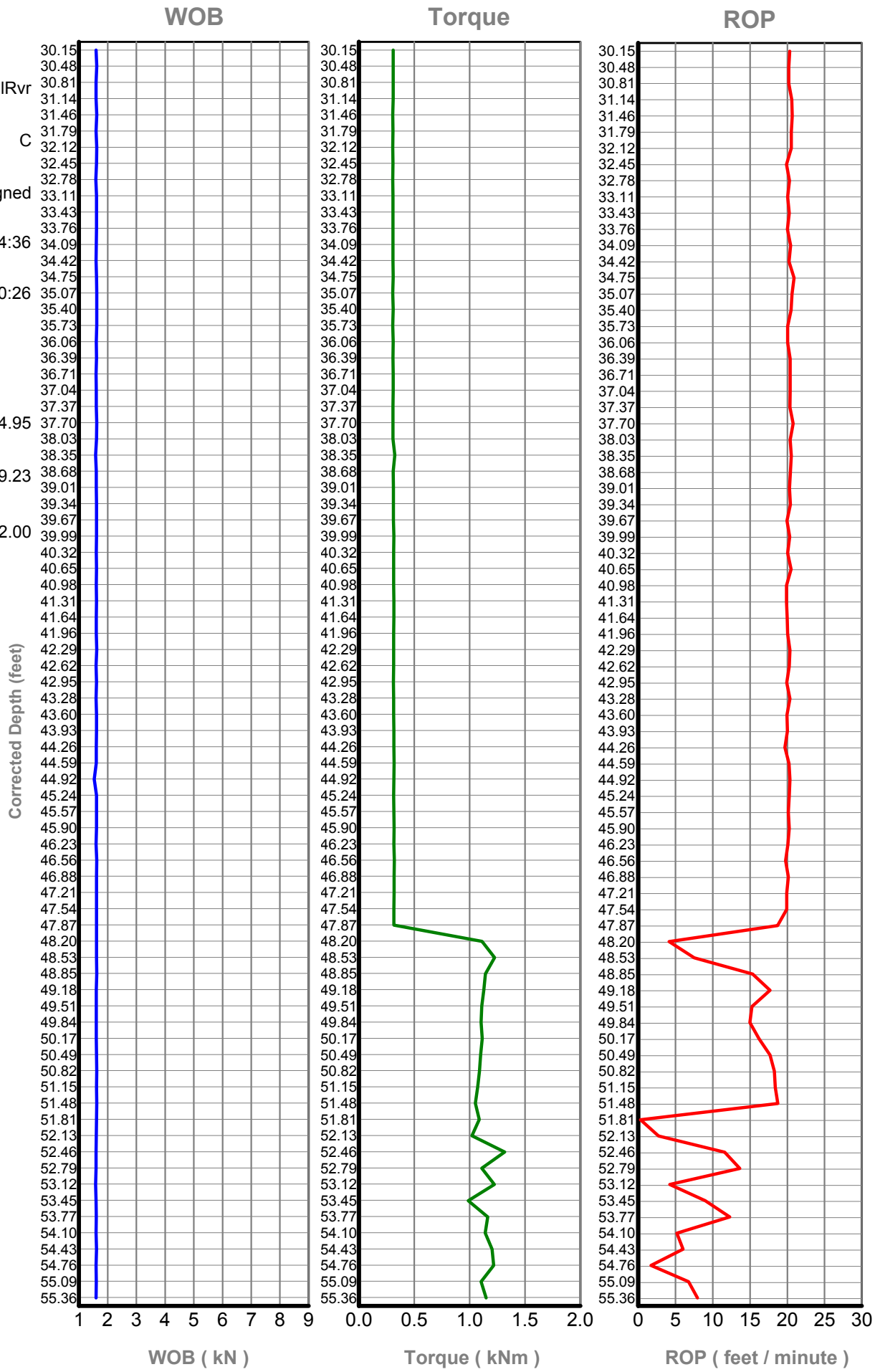
**End Date:**
4/23/2015 9:40:26

**Operator Note:**
'2 2.2 c Auto Complete'

**Northing:**
367,624.95

**Easting:**
251,609.23

**Tide (feet):**
2.00



## Hole: F10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:35:14 | 30.84 | 30.04 | 652 | 1.81 | 0.29 | 35.7 |
| 4/22/2015 11:35:15 | 31.17 | 30.37 | 653 | 1.81 | 0.28 | 35.7 |
| 4/22/2015 11:35:15 | 31.50 | 30.70 | 653 | 1.83 | 0.29 | 35.7 |
| 4/22/2015 11:35:16 | 31.82 | 31.02 | 657 | 1.81 | 0.29 | 35.9 |
| 4/22/2015 11:35:16 | 32.15 | 31.35 | 653 | 1.83 | 0.28 | 35.7 |
| 4/22/2015 11:35:17 | 32.48 | 31.68 | 658 | 1.81 | 0.28 | 36.0 |
| 4/22/2015 11:35:17 | 32.81 | 32.01 | 650 | 1.81 | 0.28 | 35.5 |
| 4/22/2015 11:35:18 | 33.14 | 32.34 | 657 | 1.81 | 0.29 | 35.9 |
| 4/22/2015 11:35:18 | 33.46 | 32.66 | 657 | 1.81 | 0.28 | 35.9 |
| 4/22/2015 11:35:19 | 33.79 | 32.99 | 658 | 1.83 | 0.28 | 36.0 |
| 4/22/2015 11:35:19 | 34.12 | 33.32 | 640 | 1.82 | 0.28 | 35.0 |
| 4/22/2015 11:35:20 | 34.45 | 33.65 | 640 | 1.82 | 0.29 | 35.0 |
| 4/22/2015 11:35:20 | 34.78 | 33.98 | 651 | 1.74 | 0.29 | 35.6 |
| 4/22/2015 11:35:21 | 35.11 | 34.31 | 645 | 1.81 | 0.28 | 35.3 |
| 4/22/2015 11:35:21 | 35.43 | 34.63 | 641 | 1.80 | 0.28 | 35.1 |
| 4/22/2015 11:35:22 | 35.76 | 34.96 | 655 | 1.81 | 0.29 | 35.8 |
| 4/22/2015 11:35:23 | 36.09 | 35.29 | 645 | 1.83 | 0.29 | 35.3 |
| 4/22/2015 11:35:24 | 36.42 | 35.62 | 644 | 1.81 | 0.29 | 35.2 |
| 4/22/2015 11:35:24 | 36.75 | 35.95 | 648 | 1.82 | 0.29 | 35.4 |
| 4/22/2015 11:35:25 | 37.07 | 36.27 | 645 | 1.80 | 0.29 | 35.3 |
| 4/22/2015 11:35:25 | 37.40 | 36.60 | 645 | 1.81 | 0.29 | 35.3 |
| 4/22/2015 11:35:26 | 37.73 | 36.93 | 648 | 1.82 | 0.29 | 35.4 |
| 4/22/2015 11:35:26 | 38.06 | 37.26 | 648 | 1.81 | 0.29 | 35.4 |
| 4/22/2015 11:35:27 | 38.39 | 37.59 | 640 | 1.83 | 0.29 | 35.0 |
| 4/22/2015 11:35:27 | 38.71 | 37.91 | 648 | 1.81 | 0.28 | 35.4 |
| 4/22/2015 11:35:28 | 39.04 | 38.24 | 641 | 1.90 | 0.28 | 35.1 |
| 4/22/2015 11:35:28 | 39.37 | 38.57 | 645 | 1.81 | 0.29 | 35.3 |
| 4/22/2015 11:35:29 | 39.70 | 38.90 | 645 | 1.81 | 0.28 | 35.3 |
| 4/22/2015 11:35:29 | 40.03 | 39.23 | 652 | 1.80 | 0.28 | 35.7 |
| 4/22/2015 11:35:30 | 40.35 | 39.55 | 645 | 1.83 | 0.29 | 35.3 |
| 4/22/2015 11:35:30 | 40.68 | 39.88 | 648 | 1.81 | 0.29 | 35.4 |
| 4/22/2015 11:35:31 | 41.01 | 40.21 | 645 | 1.81 | 0.28 | 35.3 |
| 4/22/2015 11:35:32 | 41.34 | 40.54 | 641 | 1.80 | 0.28 | 35.1 |
| 4/22/2015 11:35:33 | 41.67 | 40.87 | 644 | 1.82 | 0.29 | 35.2 |
| 4/22/2015 11:35:33 | 41.99 | 41.19 | 631 | 1.78 | 0.29 | 34.5 |
| 4/22/2015 11:35:34 | 42.32 | 41.52 | 631 | 1.82 | 0.28 | 34.5 |
| 4/22/2015 11:35:34 | 42.65 | 41.85 | 640 | 1.81 | 0.28 | 35.0 |
| 4/22/2015 11:35:35 | 42.98 | 42.18 | 633 | 1.81 | 0.29 | 34.6 |
| 4/22/2015 11:35:35 | 43.31 | 42.51 | 627 | 1.80 | 0.29 | 34.3 |
| 4/22/2015 11:35:36 | 43.64 | 42.84 | 625 | 1.82 | 0.28 | 34.2 |
| 4/22/2015 11:35:36 | 43.96 | 43.16 | 632 | 1.81 | 0.28 | 34.6 |
| 4/22/2015 11:35:37 | 44.29 | 43.49 | 625 | 1.83 | 0.28 | 34.2 |
| 4/22/2015 11:35:38 | 44.62 | 43.82 | 629 | 1.82 | 0.28 | 34.4 |
| 4/22/2015 11:35:38 | 44.95 | 44.15 | 628 | 1.82 | 0.28 | 34.3 |
| 4/22/2015 11:35:39 | 45.28 | 44.48 | 634 | 1.81 | 0.29 | 34.7 |
| 4/22/2015 11:35:39 | 45.60 | 44.80 | 631 | 1.84 | 0.28 | 34.5 |
| 4/22/2015 11:35:52 | 45.93 | 45.13 | 0 | 1.78 | 1.18 | 0.0 |
| 4/22/2015 11:35:54 | 46.26 | 45.46 | 149 | 1.83 | 1.31 | 8.2 |
| 4/22/2015 11:35:57 | 46.59 | 45.79 | 104 | 1.81 | 1.15 | 5.7 |
| 4/22/2015 11:35:59 | 46.92 | 46.12 | 187 | 1.82 | 1.30 | 10.2 |
| 4/22/2015 11:36:01 | 47.24 | 46.44 | 170 | 1.82 | 0.97 | 9.3 |
| 4/22/2015 11:36:04 | 47.57 | 46.77 | 142 | 1.86 | 1.46 | 7.8 |
| 4/22/2015 11:36:07 | 47.90 | 47.10 | 124 | 1.81 | 1.14 | 6.8 |
| 4/22/2015 11:36:09 | 48.23 | 47.43 | 145 | 1.81 | 1.08 | 7.9 |
| 4/22/2015 11:36:12 | 48.56 | 47.76 | 152 | 1.81 | 1.11 | 8.3 |
| 4/22/2015 11:36:14 | 48.88 | 48.08 | 130 | 1.71 | 1.29 | 7.1 |
| 4/22/2015 11:36:17 | 49.21 | 48.41 | 132 | 1.69 | 1.21 | 7.2 |
| 4/22/2015 11:36:19 | 49.54 | 48.74 | 168 | 1.70 | 1.13 | 9.2 |
| 4/22/2015 11:36:42 | 49.87 | 49.07 | 9 | 1.70 | 1.23 | 0.5 |
| 4/22/2015 11:36:45 | 50.20 | 49.40 | 127 | 1.69 | 1.05 | 7.0 |
| 4/22/2015 11:36:48 | 50.53 | 49.73 | 113 | 1.68 | 1.09 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:36:51 | 50.85 | 50.05 | 110 | 1.70 | 1.13 | 6.0 |
| 4/22/2015 | 11:36:55 | 51.18 | 50.38 | 104 | 1.66 | 1.06 | 5.7 |
| 4/22/2015 | 11:36:58 | 51.51 | 50.71 | 116 | 1.70 | 1.14 | 6.4 |
| 4/22/2015 | 11:37:00 | 51.84 | 51.04 | 141 | 1.51 | 1.11 | 7.7 |
| 4/22/2015 | 11:37:03 | 52.17 | 51.37 | 142 | 1.69 | 1.16 | 7.8 |
| 4/22/2015 | 11:37:06 | 52.49 | 51.69 | 99 | 1.69 | 1.17 | 5.4 |
| 4/22/2015 | 11:37:10 | 52.82 | 52.02 | 117 | 1.68 | 1.13 | 6.4 |
| 4/22/2015 | 11:37:12 | 53.15 | 52.35 | 156 | 1.71 | 1.12 | 8.5 |
| 4/22/2015 | 11:37:15 | 53.48 | 52.68 | 120 | 1.66 | 1.14 | 6.5 |
| 4/22/2015 | 11:37:19 | 53.81 | 53.01 | 80 | 1.68 | 1.12 | 4.4 |
| 4/22/2015 | 11:37:24 | 54.13 | 53.33 | 69 | 1.66 | 1.14 | 3.8 |
| 4/22/2015 | 11:37:31 | 54.46 | 53.66 | 55 | 1.68 | 1.09 | 3.0 |
| 4/22/2015 | 11:37:38 | 54.79 | 53.99 | 46 | 1.68 | 1.07 | 2.5 |
| 4/22/2015 | 11:37:46 | 55.12 | 54.32 | 43 | 1.68 | 1.10 | 2.4 |
| 4/22/2015 | 11:37:54 | 55.45 | 54.65 | 49 | 1.68 | 1.05 | 2.7 |
| 4/22/2015 | 11:38:00 | 55.73 | 54.93 | 52 | 1.69 | 1.19 | 2.8 |

## F10 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:33:21

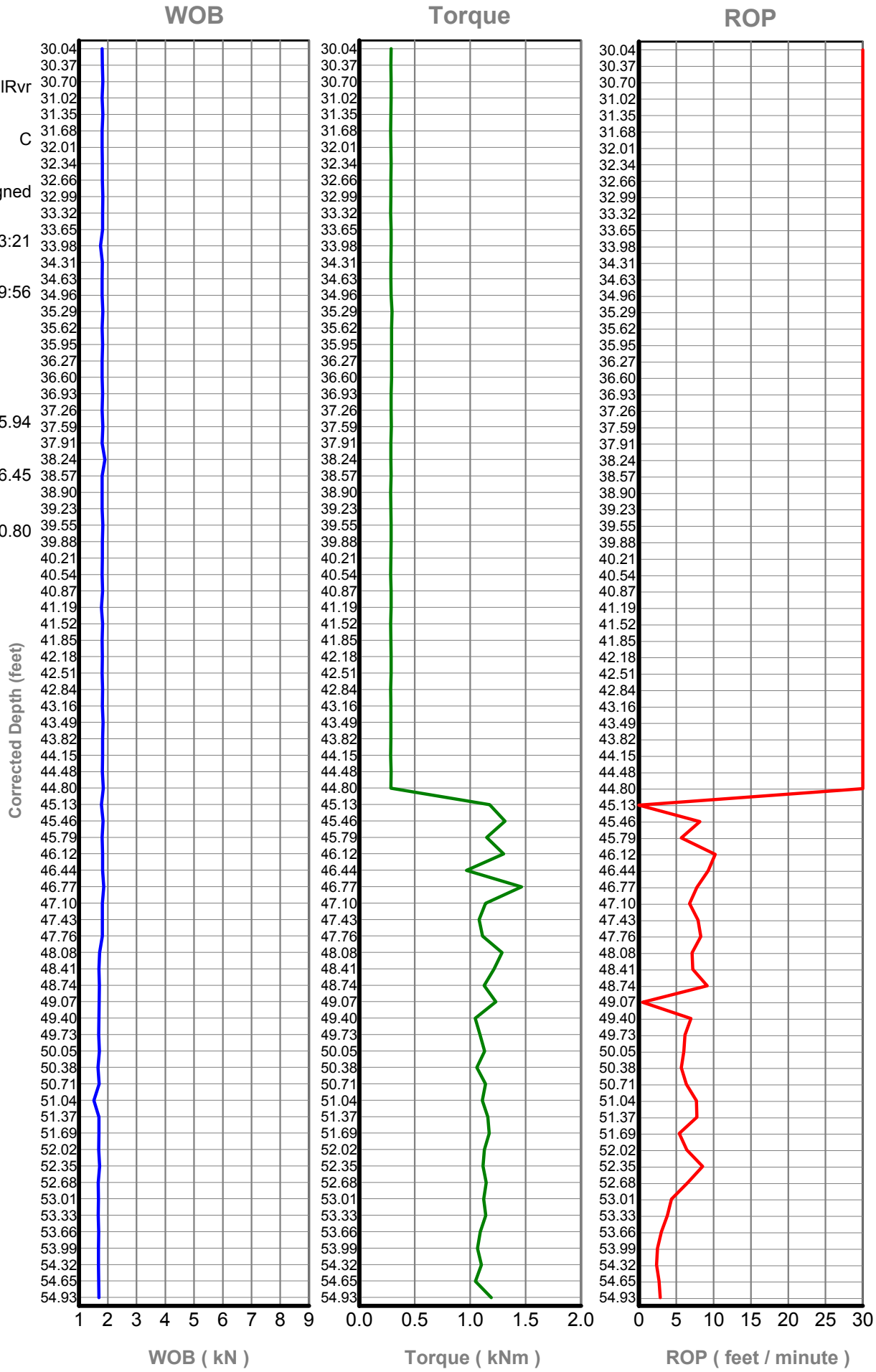
**End Date:**
4/22/2015 11:39:56

**Operator Note:**
'0.8 .7 c Auto Complete'

**Northing:**
368,045.94

**Easting:**
252,126.45

**Tide (feet):**
0.80



## Hole: F11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 8:06:46 | 33.14 | 30.04 | 864 | 0.35 | 0.33 | 47.3 |
| 4/22/2015 8:06:47 | 33.46 | 30.36 | 880 | 0.35 | 0.33 | 48.1 |
| 4/22/2015 8:06:47 | 33.79 | 30.69 | 905 | 0.41 | 0.33 | 49.5 |
| 4/22/2015 8:06:48 | 34.12 | 31.02 | 905 | 0.41 | 0.33 | 49.5 |
| 4/22/2015 8:06:48 | 34.45 | 31.35 | 903 | 0.33 | 0.33 | 49.4 |
| 4/22/2015 8:06:48 | 34.78 | 31.68 | 881 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:49 | 35.11 | 32.01 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:06:49 | 35.43 | 32.33 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:06:49 | 35.76 | 32.66 | 881 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:50 | 36.09 | 32.99 | 881 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:50 | 36.42 | 33.32 | 882 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:51 | 36.75 | 33.65 | 882 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:51 | 37.07 | 33.97 | 882 | 0.35 | 0.33 | 48.2 |
| 4/22/2015 8:06:51 | 37.40 | 34.30 | 873 | 0.35 | 0.33 | 47.7 |
| 4/22/2015 8:06:52 | 37.73 | 34.63 | 886 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:52 | 38.06 | 34.96 | 886 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:53 | 38.39 | 35.29 | 886 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:53 | 38.71 | 35.61 | 886 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:53 | 39.04 | 35.94 | 886 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:54 | 39.37 | 36.27 | 893 | 0.35 | 0.33 | 48.8 |
| 4/22/2015 8:06:54 | 39.70 | 36.60 | 893 | 0.35 | 0.33 | 48.8 |
| 4/22/2015 8:06:54 | 40.03 | 36.93 | 896 | 0.35 | 0.33 | 49.0 |
| 4/22/2015 8:06:55 | 40.35 | 37.25 | 903 | 0.35 | 0.33 | 49.4 |
| 4/22/2015 8:06:56 | 40.68 | 37.58 | 906 | 0.35 | 0.34 | 49.6 |
| 4/22/2015 8:06:56 | 41.01 | 37.91 | 906 | 0.35 | 0.34 | 49.6 |
| 4/22/2015 8:06:56 | 41.34 | 38.24 | 884 | 0.35 | 0.33 | 48.3 |
| 4/22/2015 8:06:57 | 41.67 | 38.57 | 884 | 0.35 | 0.33 | 48.3 |
| 4/22/2015 8:06:57 | 41.99 | 38.89 | 885 | 0.35 | 0.33 | 48.4 |
| 4/22/2015 8:06:58 | 42.32 | 39.22 | 888 | 0.35 | 0.33 | 48.5 |
| 4/22/2015 8:06:58 | 42.65 | 39.55 | 888 | 0.35 | 0.33 | 48.5 |
| 4/22/2015 8:06:58 | 42.98 | 39.88 | 901 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:06:59 | 43.31 | 40.21 | 890 | 0.35 | 0.33 | 48.7 |
| 4/22/2015 8:06:59 | 43.64 | 40.54 | 903 | 0.35 | 0.33 | 49.4 |
| 4/22/2015 8:07:00 | 43.96 | 40.86 | 903 | 0.35 | 0.33 | 49.4 |
| 4/22/2015 8:07:00 | 44.29 | 41.19 | 903 | 0.35 | 0.33 | 49.4 |
| 4/22/2015 8:07:00 | 44.62 | 41.52 | 899 | 0.35 | 0.33 | 49.1 |
| 4/22/2015 8:07:01 | 44.95 | 41.85 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:07:01 | 45.28 | 42.18 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:07:01 | 45.60 | 42.50 | 893 | 0.35 | 0.33 | 48.8 |
| 4/22/2015 8:07:02 | 45.93 | 42.83 | 899 | 0.35 | 0.33 | 49.2 |
| 4/22/2015 8:07:02 | 46.26 | 43.16 | 913 | 0.35 | 0.33 | 49.9 |
| 4/22/2015 8:07:03 | 46.59 | 43.49 | 913 | 0.35 | 0.33 | 49.9 |
| 4/22/2015 8:07:03 | 46.92 | 43.82 | 902 | 0.35 | 0.33 | 49.3 |
| 4/22/2015 8:07:03 | 47.24 | 44.14 | 896 | 0.34 | 0.33 | 49.0 |
| 4/22/2015 8:07:13 | 47.57 | 44.47 | 0 | 2.48 | 0.32 | 0.0 |
| 4/22/2015 8:07:14 | 47.90 | 44.80 | 100 | 3.14 | 0.37 | 5.5 |
| 4/22/2015 8:07:17 | 48.23 | 45.13 | 269 | 4.37 | 0.40 | 14.7 |
| 4/22/2015 8:07:21 | 48.56 | 45.46 | 99 | 5.13 | 0.40 | 5.4 |
| 4/22/2015 8:07:30 | 48.88 | 45.78 | 46 | 4.48 | 0.40 | 2.5 |
| 4/22/2015 8:07:34 | 49.21 | 46.11 | 76 | 4.59 | 0.40 | 4.1 |
| 4/22/2015 8:07:36 | 49.54 | 46.44 | 116 | 3.50 | 0.38 | 6.4 |
| 4/22/2015 8:07:38 | 49.87 | 46.77 | 165 | 3.79 | 0.38 | 9.0 |
| 4/22/2015 8:07:48 | 50.20 | 47.10 | 55 | 3.61 | 0.38 | 3.0 |
| 4/22/2015 8:07:49 | 50.53 | 47.43 | 201 | 3.82 | 0.39 | 11.0 |
| 4/22/2015 8:08:10 | 50.85 | 47.75 | 54 | 4.65 | 0.38 | 2.9 |
| 4/22/2015 8:08:12 | 51.18 | 48.08 | 92 | 3.81 | 0.40 | 5.0 |
| 4/22/2015 8:08:17 | 51.51 | 48.41 | 78 | 3.68 | 0.40 | 4.3 |
| 4/22/2015 8:08:21 | 51.84 | 48.74 | 89 | 3.81 | 0.39 | 4.9 |
| 4/22/2015 8:08:24 | 52.17 | 49.07 | 122 | 4.09 | 0.39 | 6.6 |
| 4/22/2015 8:08:27 | 52.49 | 49.39 | 118 | 3.52 | 0.39 | 6.5 |
| 4/22/2015 8:08:32 | 52.82 | 49.72 | 75 | 4.08 | 0.39 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 8:08:37 | 53.15 | 50.05 | 66 | 4.13 | 0.40 | 3.6 |
| 4/22/2015 | 8:08:42 | 53.48 | 50.38 | 72 | 3.90 | 0.40 | 4.0 |
| 4/22/2015 | 8:08:47 | 53.81 | 50.71 | 69 | 4.03 | 0.40 | 3.8 |
| 4/22/2015 | 8:08:52 | 54.13 | 51.03 | 70 | 3.58 | 0.40 | 3.8 |
| 4/22/2015 | 8:08:57 | 54.46 | 51.36 | 75 | 3.99 | 0.40 | 4.1 |
| 4/22/2015 | 8:08:57 | 54.50 | 51.40 | 75 | 3.99 | 0.40 | 4.1 |

## F11 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 8:03:56

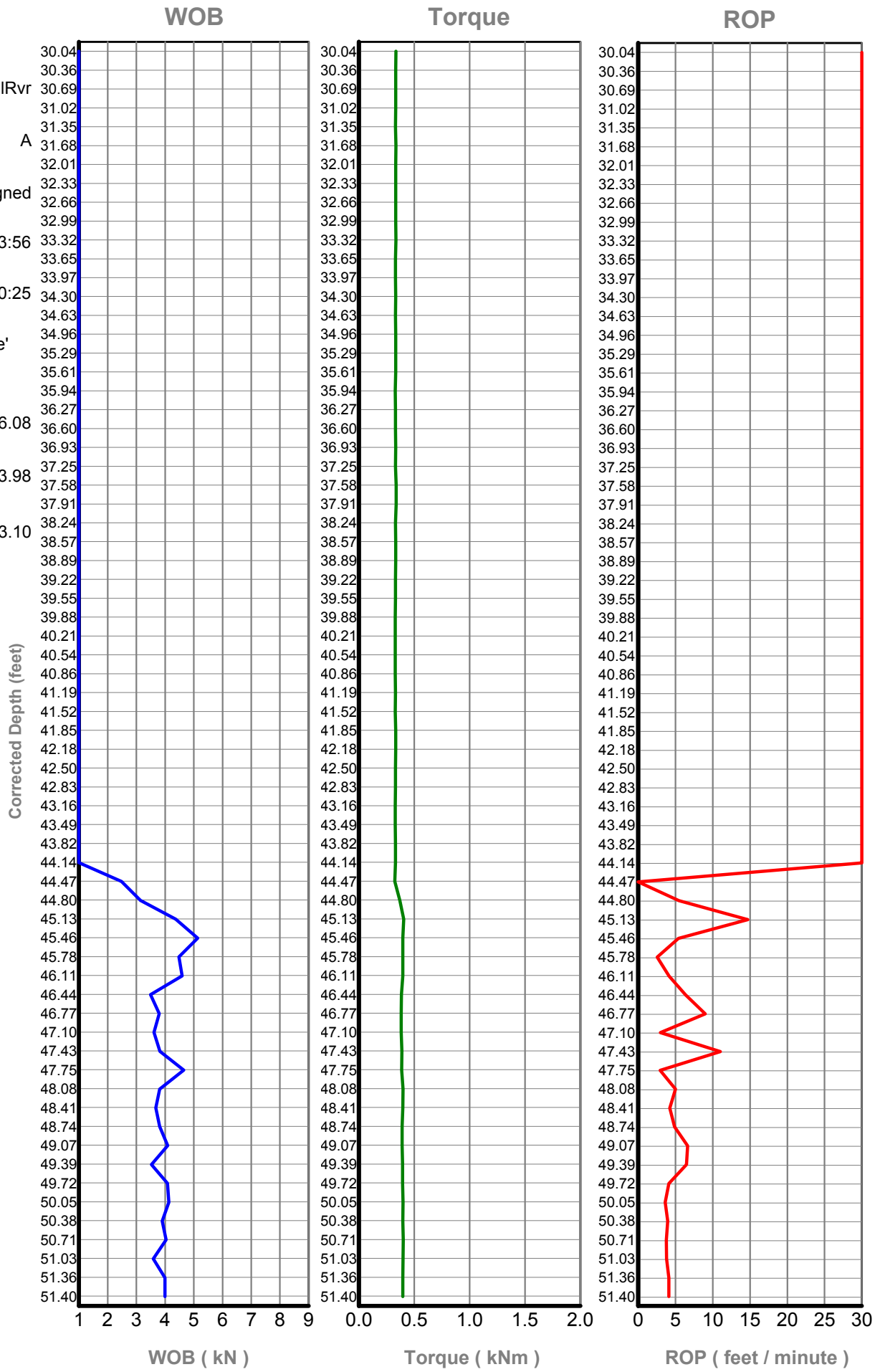
**End Date:**
4/22/2015 8:10:25

**Operator Note:**
'3.1 3.3 b Auto Complete'

**Northing:**
368,106.08

**Easting:**
252,193.98

**Tide (feet):**
3.10



## Hole: F12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 8:13:35 | 33.14 | 30.04 | 917 | 0.51 | 0.34 | 50.1 |
| 4/22/2015 8:13:35 | 33.46 | 30.36 | 906 | 0.50 | 0.34 | 49.5 |
| 4/22/2015 8:13:36 | 33.79 | 30.69 | 907 | 0.50 | 0.34 | 49.6 |
| 4/22/2015 8:13:36 | 34.12 | 31.02 | 907 | 0.50 | 0.34 | 49.6 |
| 4/22/2015 8:13:36 | 34.45 | 31.35 | 888 | 0.50 | 0.35 | 48.6 |
| 4/22/2015 8:13:37 | 34.78 | 31.68 | 890 | 0.37 | 0.32 | 48.7 |
| 4/22/2015 8:13:37 | 35.11 | 32.01 | 885 | 0.34 | 0.32 | 48.4 |
| 4/22/2015 8:13:38 | 35.43 | 32.33 | 885 | 0.34 | 0.32 | 48.4 |
| 4/22/2015 8:13:38 | 35.76 | 32.66 | 899 | 0.51 | 0.32 | 49.2 |
| 4/22/2015 8:13:38 | 36.09 | 32.99 | 902 | 0.34 | 0.32 | 49.3 |
| 4/22/2015 8:13:39 | 36.42 | 33.32 | 913 | 0.33 | 0.32 | 50.0 |
| 4/22/2015 8:13:39 | 36.75 | 33.65 | 913 | 0.33 | 0.32 | 50.0 |
| 4/22/2015 8:13:39 | 37.07 | 33.97 | 919 | 0.34 | 0.32 | 50.3 |
| 4/22/2015 8:13:40 | 37.40 | 34.30 | 928 | 0.34 | 0.32 | 50.7 |
| 4/22/2015 8:13:40 | 37.73 | 34.63 | 928 | 0.34 | 0.32 | 50.7 |
| 4/22/2015 8:13:41 | 38.06 | 34.96 | 928 | 0.34 | 0.32 | 50.7 |
| 4/22/2015 8:13:41 | 38.39 | 35.29 | 937 | 0.32 | 0.32 | 51.2 |
| 4/22/2015 8:13:42 | 38.71 | 35.61 | 937 | 0.33 | 0.32 | 51.2 |
| 4/22/2015 8:13:42 | 39.04 | 35.94 | 937 | 0.33 | 0.32 | 51.2 |
| 4/22/2015 8:13:42 | 39.37 | 36.27 | 942 | 0.34 | 0.32 | 51.5 |
| 4/22/2015 8:13:43 | 39.70 | 36.60 | 936 | 0.37 | 0.33 | 51.2 |
| 4/22/2015 8:13:43 | 40.03 | 36.93 | 945 | 0.36 | 0.32 | 51.7 |
| 4/22/2015 8:13:44 | 40.35 | 37.25 | 945 | 0.36 | 0.32 | 51.7 |
| 4/22/2015 8:13:44 | 40.68 | 37.58 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 8:13:44 | 41.01 | 37.91 | 942 | 0.34 | 0.32 | 51.5 |
| 4/22/2015 8:13:45 | 41.34 | 38.24 | 940 | 0.34 | 0.32 | 51.4 |
| 4/22/2015 8:13:45 | 41.67 | 38.57 | 940 | 0.34 | 0.32 | 51.4 |
| 4/22/2015 8:13:45 | 41.99 | 38.89 | 942 | 0.35 | 0.32 | 51.5 |
| 4/22/2015 8:13:46 | 42.32 | 39.22 | 940 | 0.34 | 0.32 | 51.4 |
| 4/22/2015 8:13:46 | 42.65 | 39.55 | 940 | 0.34 | 0.32 | 51.4 |
| 4/22/2015 8:13:46 | 42.98 | 39.88 | 942 | 0.34 | 0.32 | 51.5 |
| 4/22/2015 8:13:47 | 43.31 | 40.21 | 937 | 0.35 | 0.32 | 51.2 |
| 4/22/2015 8:13:47 | 43.64 | 40.54 | 948 | 0.34 | 0.32 | 51.9 |
| 4/22/2015 8:13:48 | 43.96 | 40.86 | 948 | 0.34 | 0.32 | 51.9 |
| 4/22/2015 8:13:48 | 44.29 | 41.19 | 945 | 0.34 | 0.32 | 51.7 |
| 4/22/2015 8:13:48 | 44.62 | 41.52 | 945 | 0.34 | 0.32 | 51.7 |
| 4/22/2015 8:13:49 | 44.95 | 41.85 | 945 | 0.34 | 0.32 | 51.7 |
| 4/22/2015 8:13:49 | 45.28 | 42.18 | 945 | 0.34 | 0.32 | 51.7 |
| 4/22/2015 8:13:49 | 45.60 | 42.50 | 951 | 0.33 | 0.32 | 52.0 |
| 4/22/2015 8:13:50 | 45.93 | 42.83 | 929 | 0.35 | 0.32 | 50.8 |
| 4/22/2015 8:13:50 | 46.26 | 43.16 | 929 | 0.35 | 0.32 | 50.8 |
| 4/22/2015 8:13:50 | 46.59 | 43.49 | 929 | 0.34 | 0.32 | 50.8 |
| 4/22/2015 8:13:51 | 46.92 | 43.82 | 936 | 0.34 | 0.32 | 51.2 |
| 4/22/2015 8:13:51 | 47.24 | 44.14 | 942 | 0.34 | 0.32 | 51.5 |
| 4/22/2015 8:13:52 | 47.57 | 44.47 | 942 | 0.34 | 0.32 | 51.5 |
| 4/22/2015 8:13:52 | 47.90 | 44.80 | 948 | 0.35 | 0.35 | 51.8 |
| 4/22/2015 8:14:12 | 48.23 | 45.13 | 54 | 3.83 | 0.36 | 3.0 |
| 4/22/2015 8:14:16 | 48.56 | 45.46 | 74 | 4.26 | 0.40 | 4.1 |
| 4/22/2015 8:14:24 | 48.88 | 45.78 | 77 | 3.12 | 0.38 | 4.2 |
| 4/22/2015 8:14:28 | 49.21 | 46.11 | 98 | 4.00 | 0.39 | 5.4 |
| 4/22/2015 8:14:31 | 49.54 | 46.44 | 90 | 3.99 | 0.39 | 4.9 |
| 4/22/2015 8:14:35 | 49.87 | 46.77 | 98 | 3.99 | 0.39 | 5.4 |
| 4/22/2015 8:14:39 | 50.20 | 47.10 | 93 | 3.77 | 0.39 | 5.1 |
| 4/22/2015 8:14:43 | 50.53 | 47.43 | 83 | 3.71 | 0.40 | 4.5 |
| 4/22/2015 8:14:48 | 50.85 | 47.75 | 81 | 3.68 | 0.40 | 4.4 |
| 4/22/2015 8:14:51 | 51.18 | 48.08 | 92 | 4.03 | 0.39 | 5.0 |
| 4/22/2015 8:14:55 | 51.51 | 48.41 | 110 | 3.41 | 0.39 | 6.0 |
| 4/22/2015 8:14:58 | 51.84 | 48.74 | 98 | 4.19 | 0.39 | 5.4 |
| 4/22/2015 8:15:02 | 52.17 | 49.07 | 101 | 3.64 | 0.40 | 5.5 |
| 4/22/2015 8:15:07 | 52.49 | 49.39 | 69 | 3.18 | 0.39 | 3.8 |
| 4/22/2015 8:15:12 | 52.82 | 49.72 | 70 | 3.12 | 0.40 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 8:15:16 | 53.15 | 50.05 | 93 | 3.85 | 0.40 | 5.1 |
| 4/22/2015 | 8:15:20 | 53.48 | 50.38 | 91 | 3.96 | 0.39 | 5.0 |
| 4/22/2015 | 8:15:24 | 53.81 | 50.71 | 84 | 3.63 | 0.39 | 4.6 |
| 4/22/2015 | 8:15:29 | 54.13 | 51.03 | 87 | 3.51 | 0.39 | 4.8 |

## F12 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 8:11:34

**End Date:**
4/22/2015 8:17:05

**Operator Note:**
'3.1 '2.5 3.2 b Auto Complete'

**Northing:**
368,141.18

**Easting:**
252,240.84

**Tide (feet):**
3.10



## Hole: F13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 8:10:44 | 33.14 | 30.04 | 1,275 | 3.27 | 0.34 | 69.7 |
| 4/22/2015 8:10:44 | 33.46 | 30.36 | 1,273 | 3.26 | 0.35 | 69.6 |
| 4/22/2015 8:10:45 | 33.79 | 30.69 | 1,289 | 3.25 | 0.35 | 70.5 |
| 4/22/2015 8:10:45 | 34.12 | 31.02 | 1,289 | 3.25 | 0.35 | 70.5 |
| 4/22/2015 8:10:45 | 34.45 | 31.35 | 1,281 | 3.25 | 0.35 | 70.1 |
| 4/22/2015 8:10:46 | 34.78 | 31.68 | 1,281 | 3.25 | 0.35 | 70.1 |
| 4/22/2015 8:10:46 | 35.11 | 32.01 | 1,277 | 3.25 | 0.35 | 69.8 |
| 4/22/2015 8:10:46 | 35.43 | 32.33 | 1,277 | 3.25 | 0.35 | 69.8 |
| 4/22/2015 8:10:46 | 35.76 | 32.66 | 1,290 | 3.26 | 0.35 | 70.5 |
| 4/22/2015 8:10:47 | 36.09 | 32.99 | 1,290 | 3.26 | 0.35 | 70.5 |
| 4/22/2015 8:10:47 | 36.42 | 33.32 | 1,287 | 3.25 | 0.36 | 70.4 |
| 4/22/2015 8:10:47 | 36.75 | 33.65 | 1,287 | 3.25 | 0.36 | 70.4 |
| 4/22/2015 8:10:47 | 37.07 | 33.97 | 1,264 | 3.25 | 0.35 | 69.1 |
| 4/22/2015 8:10:48 | 37.40 | 34.30 | 1,264 | 3.25 | 0.35 | 69.1 |
| 4/22/2015 8:10:48 | 37.73 | 34.63 | 1,264 | 3.24 | 0.34 | 69.1 |
| 4/22/2015 8:10:48 | 38.06 | 34.96 | 1,264 | 3.24 | 0.34 | 69.1 |
| 4/22/2015 8:10:48 | 38.39 | 35.29 | 1,282 | 3.26 | 0.35 | 70.1 |
| 4/22/2015 8:10:49 | 38.71 | 35.61 | 1,286 | 3.27 | 0.34 | 70.3 |
| 4/22/2015 8:10:49 | 39.04 | 35.94 | 1,286 | 3.27 | 0.34 | 70.3 |
| 4/22/2015 8:10:49 | 39.37 | 36.27 | 1,276 | 3.24 | 0.34 | 69.8 |
| 4/22/2015 8:10:50 | 39.70 | 36.60 | 1,276 | 3.24 | 0.34 | 69.8 |
| 4/22/2015 8:10:50 | 40.03 | 36.93 | 1,283 | 3.25 | 0.34 | 70.2 |
| 4/22/2015 8:10:51 | 40.35 | 37.25 | 1,283 | 3.25 | 0.34 | 70.2 |
| 4/22/2015 8:10:51 | 40.68 | 37.58 | 1,304 | 3.26 | 0.34 | 71.3 |
| 4/22/2015 8:10:51 | 41.01 | 37.91 | 1,304 | 3.26 | 0.34 | 71.3 |
| 4/22/2015 8:10:51 | 41.34 | 38.24 | 1,286 | 3.26 | 0.34 | 70.3 |
| 4/22/2015 8:10:52 | 41.67 | 38.57 | 1,286 | 3.26 | 0.34 | 70.3 |
| 4/22/2015 8:10:52 | 41.99 | 38.89 | 1,289 | 3.26 | 0.34 | 70.5 |
| 4/22/2015 8:10:52 | 42.32 | 39.22 | 1,289 | 3.26 | 0.34 | 70.5 |
| 4/22/2015 8:10:52 | 42.65 | 39.55 | 1,275 | 3.25 | 0.34 | 69.7 |
| 4/22/2015 8:10:53 | 42.98 | 39.88 | 1,275 | 3.25 | 0.34 | 69.7 |
| 4/22/2015 8:10:53 | 43.31 | 40.21 | 1,294 | 3.26 | 0.34 | 70.8 |
| 4/22/2015 8:10:53 | 43.64 | 40.54 | 1,288 | 3.25 | 0.34 | 70.4 |
| 4/22/2015 8:10:54 | 43.96 | 40.86 | 1,288 | 3.25 | 0.34 | 70.4 |
| 4/22/2015 8:10:54 | 44.29 | 41.19 | 1,291 | 3.26 | 0.34 | 70.6 |
| 4/22/2015 8:10:54 | 44.62 | 41.52 | 1,291 | 3.26 | 0.34 | 70.6 |
| 4/22/2015 8:10:54 | 44.95 | 41.85 | 1,284 | 2.22 | 0.34 | 70.2 |
| 4/22/2015 8:11:31 | 45.28 | 42.18 | 35 | 1.87 | 1.07 | 1.9 |
| 4/22/2015 8:11:31 | 45.60 | 42.50 | 135 | 1.69 | 1.08 | 7.4 |
| 4/22/2015 8:11:33 | 45.93 | 42.83 | 356 | 3.23 | 1.00 | 19.4 |
| 4/22/2015 8:11:33 | 46.26 | 43.16 | 464 | 3.43 | 0.97 | 25.4 |
| 4/22/2015 8:11:34 | 46.59 | 43.49 | 547 | 1.66 | 0.97 | 29.9 |
| 4/22/2015 8:11:34 | 46.92 | 43.82 | 569 | 3.39 | 0.99 | 31.1 |
| 4/22/2015 8:11:35 | 47.24 | 44.14 | 575 | 2.41 | 1.01 | 31.5 |
| 4/22/2015 8:11:35 | 47.57 | 44.47 | 587 | 1.57 | 0.98 | 32.1 |
| 4/22/2015 8:11:36 | 47.90 | 44.80 | 633 | 2.27 | 0.98 | 34.6 |
| 4/22/2015 8:11:36 | 48.23 | 45.13 | 663 | 2.33 | 0.96 | 36.3 |
| 4/22/2015 8:11:37 | 48.56 | 45.46 | 726 | 3.28 | 1.02 | 39.7 |
| 4/22/2015 8:11:37 | 48.88 | 45.78 | 726 | 3.28 | 1.02 | 39.7 |
| 4/22/2015 8:11:37 | 49.21 | 46.11 | 832 | 3.30 | 1.06 | 45.5 |
| 4/22/2015 8:11:38 | 49.54 | 46.44 | 929 | 3.30 | 1.08 | 50.8 |
| 4/22/2015 8:11:38 | 49.87 | 46.77 | 929 | 3.30 | 1.08 | 50.8 |
| 4/22/2015 8:11:38 | 50.20 | 47.10 | 992 | 3.30 | 1.07 | 54.2 |
| 4/22/2015 8:11:39 | 50.53 | 47.43 | 992 | 3.30 | 1.07 | 54.2 |
| 4/22/2015 8:11:39 | 50.85 | 47.75 | 1,055 | 3.31 | 1.04 | 57.7 |
| 4/22/2015 8:11:39 | 51.18 | 48.08 | 1,081 | 3.35 | 1.12 | 59.1 |
| 4/22/2015 8:11:40 | 51.51 | 48.41 | 1,050 | 3.31 | 1.11 | 57.4 |
| 4/22/2015 8:11:40 | 51.84 | 48.74 | 1,050 | 3.31 | 1.11 | 57.4 |
| 4/22/2015 8:11:40 | 52.17 | 49.07 | 1,017 | 3.26 | 1.08 | 55.6 |
| 4/22/2015 8:11:41 | 52.49 | 49.39 | 1,004 | 1.92 | 1.03 | 54.9 |
| 4/22/2015 8:11:41 | 52.82 | 49.72 | 1,004 | 1.92 | 1.03 | 54.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 8:11:42 | 53.15 | 50.05 | 931 | 1.73 | 1.03 | 50.9 |
| 4/22/2015 | 8:11:43 | 53.48 | 50.38 | 827 | 3.03 | 1.04 | 45.2 |
| 4/22/2015 | 8:11:44 | 53.81 | 50.71 | 733 | 2.18 | 1.29 | 40.1 |
| 4/22/2015 | 8:11:45 | 54.13 | 51.03 | 432 | 1.47 | 1.06 | 23.6 |
| 4/22/2015 | 8:11:45 | 54.46 | 51.36 | 405 | 3.48 | 1.03 | 22.1 |
| 4/22/2015 | 8:11:46 | 54.79 | 51.69 | 414 | 1.57 | 1.05 | 22.7 |
| 4/22/2015 | 8:11:47 | 55.12 | 52.02 | 473 | 1.99 | 1.34 | 25.9 |
| 4/22/2015 | 8:12:00 | 55.45 | 52.35 | 3 | 1.73 | 1.24 | 0.2 |
| 4/22/2015 | 8:12:01 | 55.77 | 52.67 | 139 | 1.88 | 1.17 | 7.6 |
| 4/22/2015 | 8:12:03 | 56.10 | 53.00 | 229 | 2.08 | 1.21 | 12.5 |
| 4/22/2015 | 8:12:06 | 56.43 | 53.33 | 133 | 2.12 | 1.19 | 7.3 |
| 4/22/2015 | 8:12:30 | 56.76 | 53.66 | 78 | 2.17 | 1.28 | 4.2 |
| 4/22/2015 | 8:12:34 | 57.09 | 53.99 | 95 | 2.08 | 1.23 | 5.2 |
| 4/22/2015 | 8:12:37 | 57.41 | 54.31 | 129 | 2.06 | 1.26 | 7.1 |
| 4/22/2015 | 8:12:41 | 57.74 | 54.64 | 66 | 2.14 | 1.27 | 3.6 |
| 4/22/2015 | 8:12:47 | 58.07 | 54.97 | 70 | 2.13 | 1.27 | 3.8 |
| 4/22/2015 | 8:12:52 | 58.40 | 55.30 | 66 | 2.12 | 1.24 | 3.6 |
| 4/22/2015 | 8:12:52 | 58.44 | 55.34 | 66 | 2.12 | 1.24 | 3.6 |

## F13 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 8:09:06

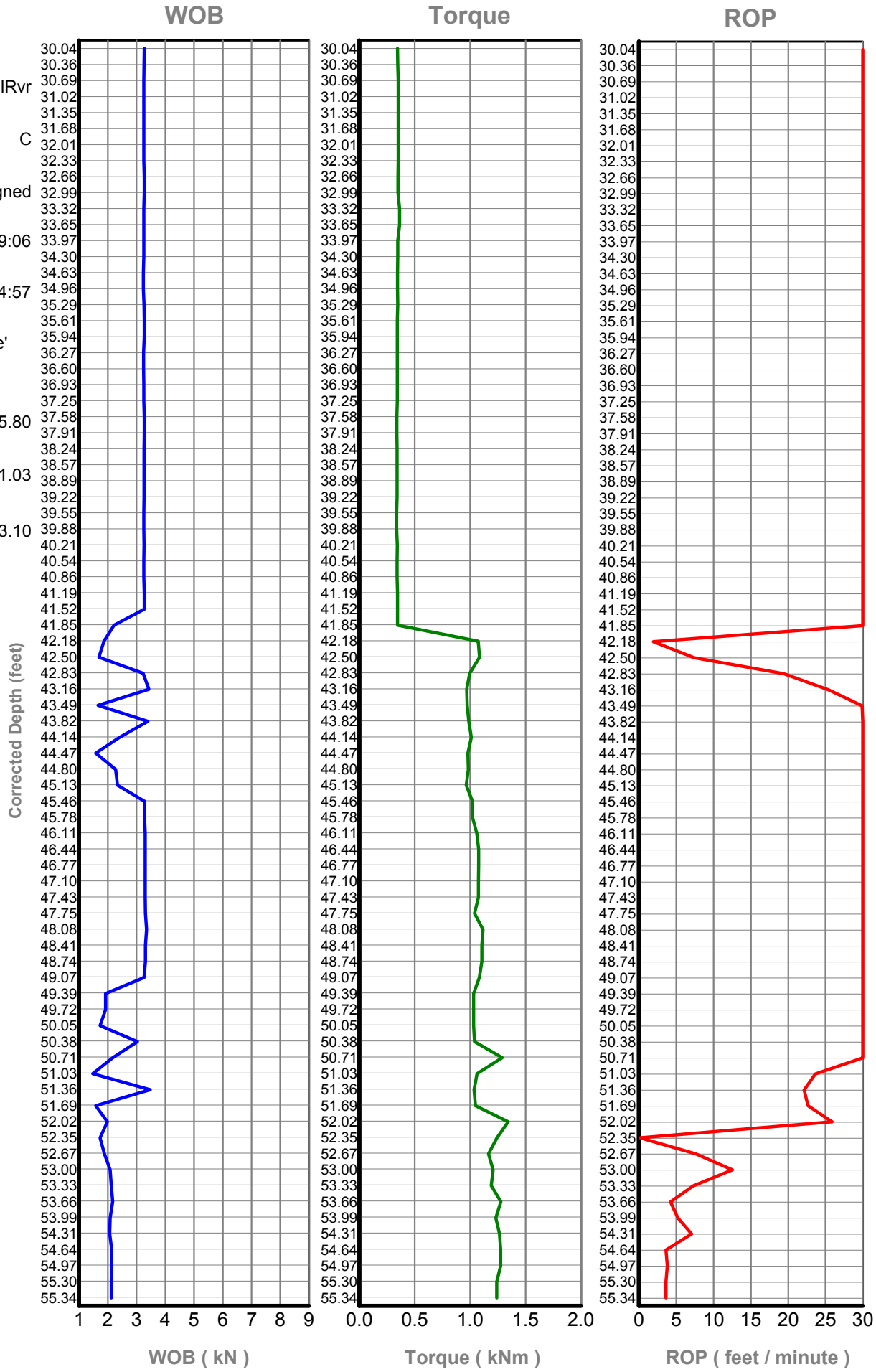
**End Date:**
4/22/2015 8:14:57

**Operator Note:**
'3.1 3.3 c Auto Complete'

**Northing:**
368,185.80

**Easting:**
252,301.03

**Tide (feet):**
3.10



## Hole: F14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:53:22 | 31.82 | 30.02 | 912 | 0.40 | 0.33 | 49.9 |
| 4/23/2015 9:53:23 | 32.15 | 30.35 | 912 | 0.40 | 0.33 | 49.9 |
| 4/23/2015 9:53:23 | 32.48 | 30.68 | 918 | 0.40 | 0.32 | 50.2 |
| 4/23/2015 9:53:24 | 32.81 | 31.01 | 909 | 0.39 | 0.32 | 49.7 |
| 4/23/2015 9:53:24 | 33.14 | 31.34 | 909 | 0.39 | 0.32 | 49.7 |
| 4/23/2015 9:53:24 | 33.46 | 31.66 | 915 | 0.45 | 0.33 | 50.0 |
| 4/23/2015 9:53:25 | 33.79 | 31.99 | 918 | 0.45 | 0.33 | 50.2 |
| 4/23/2015 9:53:25 | 34.12 | 32.32 | 933 | 0.46 | 0.34 | 51.0 |
| 4/23/2015 9:53:26 | 34.45 | 32.65 | 919 | 0.45 | 0.33 | 50.3 |
| 4/23/2015 9:53:26 | 34.78 | 32.98 | 919 | 0.45 | 0.33 | 50.3 |
| 4/23/2015 9:53:26 | 35.11 | 33.31 | 916 | 0.45 | 0.33 | 50.1 |
| 4/23/2015 9:53:27 | 35.43 | 33.63 | 913 | 0.44 | 0.33 | 49.9 |
| 4/23/2015 9:53:27 | 35.76 | 33.96 | 902 | 0.44 | 0.33 | 49.3 |
| 4/23/2015 9:53:28 | 36.09 | 34.29 | 902 | 0.44 | 0.33 | 49.3 |
| 4/23/2015 9:53:28 | 36.42 | 34.62 | 905 | 0.44 | 0.33 | 49.5 |
| 4/23/2015 9:53:28 | 36.75 | 34.95 | 900 | 0.43 | 0.34 | 49.2 |
| 4/23/2015 9:53:29 | 37.07 | 35.27 | 900 | 0.44 | 0.33 | 49.2 |
| 4/23/2015 9:53:29 | 37.40 | 35.60 | 900 | 0.44 | 0.33 | 49.2 |
| 4/23/2015 9:53:29 | 37.73 | 35.93 | 900 | 0.44 | 0.33 | 49.2 |
| 4/23/2015 9:53:30 | 38.06 | 36.26 | 897 | 0.44 | 0.33 | 49.0 |
| 4/23/2015 9:53:30 | 38.39 | 36.59 | 891 | 0.43 | 0.33 | 48.7 |
| 4/23/2015 9:53:31 | 38.71 | 36.91 | 891 | 0.43 | 0.33 | 48.7 |
| 4/23/2015 9:53:31 | 39.04 | 37.24 | 908 | 0.44 | 0.33 | 49.6 |
| 4/23/2015 9:53:31 | 39.37 | 37.57 | 905 | 0.44 | 0.34 | 49.5 |
| 4/23/2015 9:53:32 | 39.70 | 37.90 | 908 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 9:53:32 | 40.03 | 38.23 | 908 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 9:53:32 | 40.35 | 38.55 | 919 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 9:53:33 | 40.68 | 38.88 | 934 | 0.32 | 0.32 | 51.0 |
| 4/23/2015 9:53:33 | 41.01 | 39.21 | 934 | 0.32 | 0.32 | 51.0 |
| 4/23/2015 9:53:33 | 41.34 | 39.54 | 945 | 0.32 | 0.32 | 51.7 |
| 4/23/2015 9:53:34 | 41.67 | 39.87 | 954 | 0.32 | 0.32 | 52.2 |
| 4/23/2015 9:53:35 | 41.99 | 40.19 | 951 | 0.31 | 0.32 | 52.0 |
| 4/23/2015 9:53:35 | 42.32 | 40.52 | 951 | 0.31 | 0.32 | 52.0 |
| 4/23/2015 9:53:35 | 42.65 | 40.85 | 963 | 0.31 | 0.32 | 52.6 |
| 4/23/2015 9:53:36 | 42.98 | 41.18 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:53:36 | 43.31 | 41.51 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:53:36 | 43.64 | 41.84 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:53:37 | 43.96 | 42.16 | 952 | 0.31 | 0.32 | 52.0 |
| 4/23/2015 9:53:37 | 44.29 | 42.49 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:38 | 44.62 | 42.82 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:38 | 44.95 | 43.15 | 963 | 0.31 | 0.32 | 52.7 |
| 4/23/2015 9:53:38 | 45.28 | 43.48 | 966 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 9:53:39 | 45.60 | 43.80 | 966 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 9:53:39 | 45.93 | 44.13 | 963 | 0.31 | 0.32 | 52.7 |
| 4/23/2015 9:53:39 | 46.26 | 44.46 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 9:53:40 | 46.59 | 44.79 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 9:53:40 | 46.92 | 45.12 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 9:53:40 | 47.24 | 45.44 | 963 | 0.32 | 0.32 | 52.6 |
| 4/23/2015 9:53:41 | 47.57 | 45.77 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 9:53:41 | 47.90 | 46.10 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 9:53:41 | 48.23 | 46.43 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:42 | 48.56 | 46.76 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:42 | 48.88 | 47.08 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:43 | 49.21 | 47.41 | 963 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 9:53:43 | 49.54 | 47.74 | 963 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 9:53:43 | 49.87 | 48.07 | 974 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 9:53:44 | 50.20 | 48.40 | 974 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 9:53:44 | 50.53 | 48.73 | 966 | 0.32 | 0.32 | 52.8 |
| 4/23/2015 9:53:45 | 50.85 | 49.05 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 9:53:45 | 51.18 | 49.38 | 966 | 0.32 | 0.32 | 52.8 |
| 4/23/2015 9:53:46 | 51.51 | 49.71 | 966 | 0.32 | 0.32 | 52.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:53:46 | 51.84 | 50.04 | 966 | 0.32 | 0.33 | 52.8 |
| 4/23/2015 | 9:53:53 | 52.17 | 50.37 | 0 | 2.27 | 0.33 | 0.0 |
| 4/23/2015 | 9:53:54 | 52.49 | 50.69 | 53 | 2.31 | 0.33 | 2.9 |
| 4/23/2015 | 9:53:54 | 52.82 | 51.02 | 216 | 2.61 | 0.35 | 11.8 |
| 4/23/2015 | 9:53:56 | 53.15 | 51.35 | 418 | 3.12 | 0.38 | 22.9 |
| 4/23/2015 | 9:53:58 | 53.48 | 51.68 | 246 | 3.33 | 0.39 | 13.5 |
| 4/23/2015 | 9:53:59 | 53.81 | 52.01 | 231 | 3.62 | 0.38 | 12.6 |
| 4/23/2015 | 9:54:00 | 54.13 | 52.33 | 275 | 3.61 | 0.38 | 15.0 |
| 4/23/2015 | 9:54:02 | 54.46 | 52.66 | 230 | 4.41 | 0.38 | 12.6 |
| 4/23/2015 | 9:54:04 | 54.79 | 52.99 | 174 | 7.38 | 0.40 | 9.5 |
| 4/23/2015 | 9:54:06 | 55.12 | 53.32 | 199 | 3.48 | 0.37 | 10.9 |
| 4/23/2015 | 9:54:07 | 55.45 | 53.65 | 245 | 5.13 | 0.40 | 13.4 |
| 4/23/2015 | 9:54:07 | 55.77 | 53.97 | 285 | 3.09 | 0.36 | 15.6 |
| 4/23/2015 | 9:54:09 | 56.10 | 54.30 | 327 | 3.64 | 0.37 | 17.9 |
| 4/23/2015 | 9:54:09 | 56.43 | 54.63 | 380 | 3.48 | 0.36 | 20.8 |
| 4/23/2015 | 9:54:10 | 56.76 | 54.96 | 420 | 2.88 | 0.36 | 23.0 |
| 4/23/2015 | 9:54:11 | 56.91 | 55.11 | 383 | 2.33 | 0.36 | 21.0 |

## F14 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:50:58

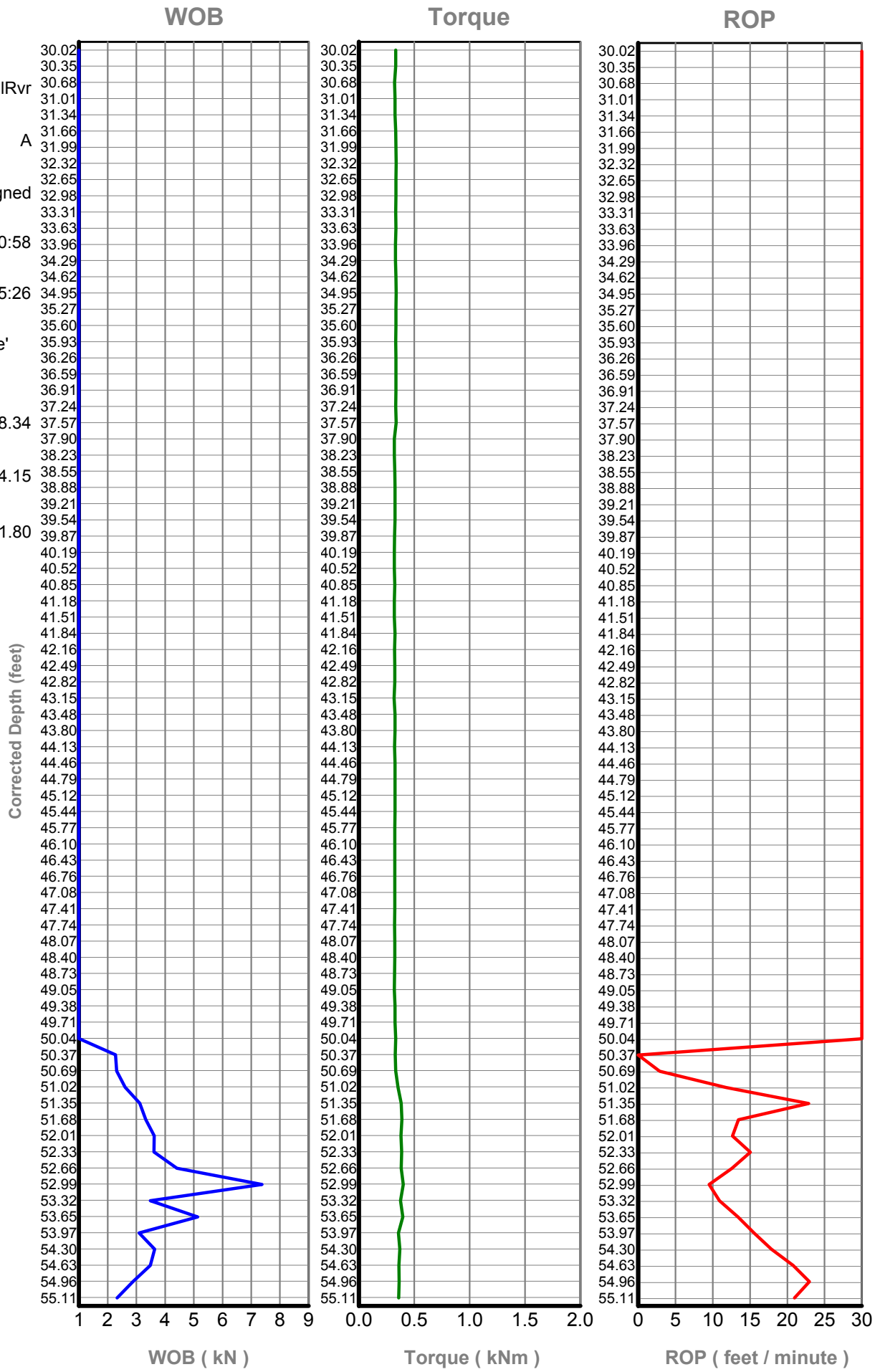
**End Date:**
4/23/2015 9:55:26

**Operator Note:**
'1.8 1.9 b Auto Complete'

**Northing:**
367,488.34

**Easting:**
251,544.15

**Tide (feet):**
1.80



## Hole: F15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:57:38 | 31.82 | 30.02 | 945 | 0.35 | 0.32 | 51.7 |
| 4/23/2015 9:57:38 | 32.15 | 30.35 | 939 | 0.35 | 0.32 | 51.4 |
| 4/23/2015 9:57:39 | 32.48 | 30.68 | 957 | 0.35 | 0.32 | 52.3 |
| 4/23/2015 9:57:39 | 32.81 | 31.01 | 957 | 0.35 | 0.32 | 52.3 |
| 4/23/2015 9:57:39 | 33.14 | 31.34 | 954 | 0.35 | 0.32 | 52.2 |
| 4/23/2015 9:57:40 | 33.46 | 31.66 | 957 | 0.35 | 0.32 | 52.3 |
| 4/23/2015 9:57:40 | 33.79 | 31.99 | 957 | 0.35 | 0.32 | 52.3 |
| 4/23/2015 9:57:41 | 34.12 | 32.32 | 957 | 0.35 | 0.32 | 52.3 |
| 4/23/2015 9:57:41 | 34.45 | 32.65 | 960 | 0.35 | 0.32 | 52.5 |
| 4/23/2015 9:57:41 | 34.78 | 32.98 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 9:57:42 | 35.11 | 33.31 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 9:57:42 | 35.43 | 33.63 | 929 | 0.35 | 0.32 | 50.8 |
| 4/23/2015 9:57:42 | 35.76 | 33.96 | 929 | 0.35 | 0.33 | 50.8 |
| 4/23/2015 9:57:43 | 36.09 | 34.29 | 935 | 0.36 | 0.32 | 51.1 |
| 4/23/2015 9:57:44 | 36.42 | 34.62 | 935 | 0.36 | 0.32 | 51.1 |
| 4/23/2015 9:57:43 | 36.75 | 34.95 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 9:57:44 | 37.07 | 35.27 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 9:57:45 | 37.40 | 35.60 | 929 | 0.37 | 0.33 | 50.8 |
| 4/23/2015 9:57:45 | 37.73 | 35.93 | 929 | 0.37 | 0.33 | 50.8 |
| 4/23/2015 9:57:45 | 38.06 | 36.26 | 949 | 0.41 | 0.33 | 51.9 |
| 4/23/2015 9:57:46 | 38.39 | 36.59 | 934 | 0.43 | 0.33 | 51.1 |
| 4/23/2015 9:57:46 | 38.71 | 36.91 | 936 | 0.43 | 0.32 | 51.2 |
| 4/23/2015 9:57:47 | 39.04 | 37.24 | 936 | 0.43 | 0.32 | 51.2 |
| 4/23/2015 9:57:47 | 39.37 | 37.57 | 928 | 0.43 | 0.32 | 50.8 |
| 4/23/2015 9:57:47 | 39.70 | 37.90 | 931 | 0.43 | 0.33 | 50.9 |
| 4/23/2015 9:57:48 | 40.03 | 38.23 | 931 | 0.43 | 0.33 | 50.9 |
| 4/23/2015 9:57:48 | 40.35 | 38.55 | 928 | 0.43 | 0.32 | 50.7 |
| 4/23/2015 9:57:48 | 40.68 | 38.88 | 928 | 0.50 | 0.34 | 50.7 |
| 4/23/2015 9:57:49 | 41.01 | 39.21 | 922 | 0.45 | 0.34 | 50.4 |
| 4/23/2015 9:57:49 | 41.34 | 39.54 | 922 | 0.45 | 0.34 | 50.4 |
| 4/23/2015 9:57:49 | 41.67 | 39.87 | 922 | 0.46 | 0.35 | 50.4 |
| 4/23/2015 9:57:50 | 41.99 | 40.19 | 916 | 0.46 | 0.35 | 50.1 |
| 4/23/2015 9:57:50 | 42.32 | 40.52 | 913 | 0.45 | 0.34 | 49.9 |
| 4/23/2015 9:57:51 | 42.65 | 40.85 | 913 | 0.45 | 0.34 | 49.9 |
| 4/23/2015 9:57:51 | 42.98 | 41.18 | 911 | 0.45 | 0.35 | 49.8 |
| 4/23/2015 9:57:51 | 43.31 | 41.51 | 911 | 0.45 | 0.34 | 49.8 |
| 4/23/2015 9:57:52 | 43.64 | 41.84 | 916 | 0.45 | 0.34 | 50.1 |
| 4/23/2015 9:57:52 | 43.96 | 42.16 | 916 | 0.45 | 0.34 | 50.1 |
| 4/23/2015 9:57:52 | 44.29 | 42.49 | 919 | 0.45 | 0.34 | 50.3 |
| 4/23/2015 9:57:53 | 44.62 | 42.82 | 920 | 0.45 | 0.34 | 50.3 |
| 4/23/2015 9:57:53 | 44.95 | 43.15 | 934 | 0.45 | 0.34 | 51.1 |
| 4/23/2015 9:57:54 | 45.28 | 43.48 | 934 | 0.45 | 0.34 | 51.1 |
| 4/23/2015 9:57:54 | 45.60 | 43.80 | 932 | 0.45 | 0.34 | 51.0 |
| 4/23/2015 9:57:55 | 45.93 | 44.13 | 929 | 0.44 | 0.35 | 50.8 |
| 4/23/2015 9:57:55 | 46.26 | 44.46 | 899 | 0.44 | 0.35 | 49.1 |
| 4/23/2015 9:57:56 | 46.59 | 44.79 | 879 | 0.44 | 0.35 | 48.1 |
| 4/23/2015 9:57:56 | 46.92 | 45.12 | 831 | 0.44 | 0.36 | 45.4 |
| 4/23/2015 9:57:57 | 47.24 | 45.44 | 831 | 0.44 | 0.36 | 45.4 |
| 4/23/2015 9:57:57 | 47.57 | 45.77 | 799 | 0.44 | 0.35 | 43.7 |
| 4/23/2015 9:57:57 | 47.90 | 46.10 | 799 | 0.45 | 0.35 | 43.7 |
| 4/23/2015 9:57:58 | 48.23 | 46.43 | 775 | 0.44 | 0.36 | 42.4 |
| 4/23/2015 9:57:58 | 48.56 | 46.76 | 769 | 0.45 | 0.35 | 42.0 |
| 4/23/2015 9:57:59 | 48.88 | 47.08 | 758 | 0.46 | 0.35 | 41.4 |
| 4/23/2015 9:57:59 | 49.21 | 47.41 | 779 | 0.45 | 0.35 | 42.6 |
| 4/23/2015 9:58:00 | 49.54 | 47.74 | 799 | 0.45 | 0.35 | 43.7 |
| 4/23/2015 9:58:00 | 49.87 | 48.07 | 799 | 0.45 | 0.35 | 43.7 |
| 4/23/2015 9:58:00 | 50.20 | 48.40 | 810 | 0.45 | 0.34 | 44.3 |
| 4/23/2015 9:58:01 | 50.53 | 48.73 | 836 | 0.45 | 0.34 | 45.7 |
| 4/23/2015 9:58:01 | 50.85 | 49.05 | 866 | 0.44 | 0.35 | 47.4 |
| 4/23/2015 9:58:02 | 51.18 | 49.38 | 866 | 0.44 | 0.35 | 47.4 |
| 4/23/2015 9:58:02 | 51.51 | 49.71 | 885 | 0.43 | 0.35 | 48.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:58:02 | 51.84 | 50.04 | 887 | 0.33 | 0.33 | 48.5 |
| 4/23/2015 | 9:58:03 | 52.17 | 50.37 | 875 | 0.31 | 0.34 | 47.8 |
| 4/23/2015 | 9:58:03 | 52.49 | 50.69 | 868 | 0.31 | 0.34 | 47.4 |
| 4/23/2015 | 9:58:04 | 52.82 | 51.02 | 868 | 0.31 | 0.34 | 47.4 |
| 4/23/2015 | 9:58:04 | 53.15 | 51.35 | 850 | 0.31 | 0.34 | 46.5 |
| 4/23/2015 | 9:58:05 | 53.48 | 51.68 | 830 | 0.31 | 0.33 | 45.4 |
| 4/23/2015 | 9:58:05 | 53.81 | 52.01 | 824 | 0.31 | 0.33 | 45.1 |
| 4/23/2015 | 9:58:06 | 54.13 | 52.33 | 832 | 0.31 | 0.33 | 45.5 |
| 4/23/2015 | 9:58:06 | 54.46 | 52.66 | 835 | 0.31 | 0.33 | 45.7 |
| 4/23/2015 | 9:58:07 | 54.79 | 52.99 | 835 | 0.31 | 0.33 | 45.7 |
| 4/23/2015 | 9:58:07 | 55.12 | 53.32 | 847 | 0.31 | 0.33 | 46.3 |
| 4/23/2015 | 9:58:07 | 55.45 | 53.65 | 862 | 0.31 | 0.33 | 47.1 |
| 4/23/2015 | 9:58:08 | 55.77 | 53.97 | 873 | 0.32 | 0.33 | 47.7 |
| 4/23/2015 | 9:58:08 | 56.10 | 54.30 | 873 | 0.32 | 0.33 | 47.7 |
| 4/23/2015 | 9:58:08 | 56.43 | 54.63 | 876 | 0.31 | 0.33 | 47.9 |
| 4/23/2015 | 9:58:09 | 56.76 | 54.96 | 876 | 0.31 | 0.33 | 47.9 |
| 4/23/2015 | 9:58:09 | 57.09 | 55.29 | 863 | 0.31 | 0.33 | 47.2 |
| 4/23/2015 | 9:58:10 | 57.41 | 55.61 | 858 | 0.31 | 0.33 | 46.9 |
| 4/23/2015 | 9:58:10 | 57.74 | 55.94 | 858 | 0.31 | 0.33 | 46.9 |
| 4/23/2015 | 9:58:10 | 58.07 | 56.27 | 865 | 0.32 | 0.33 | 47.3 |
| 4/23/2015 | 9:58:11 | 58.40 | 56.60 | 860 | 0.31 | 0.33 | 47.0 |
| 4/23/2015 | 9:58:11 | 58.73 | 56.93 | 854 | 0.30 | 0.34 | 46.7 |
| 4/23/2015 | 9:58:11 | 58.91 | 57.11 | 854 | 0.30 | 0.34 | 46.7 |

## F15 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:55:37

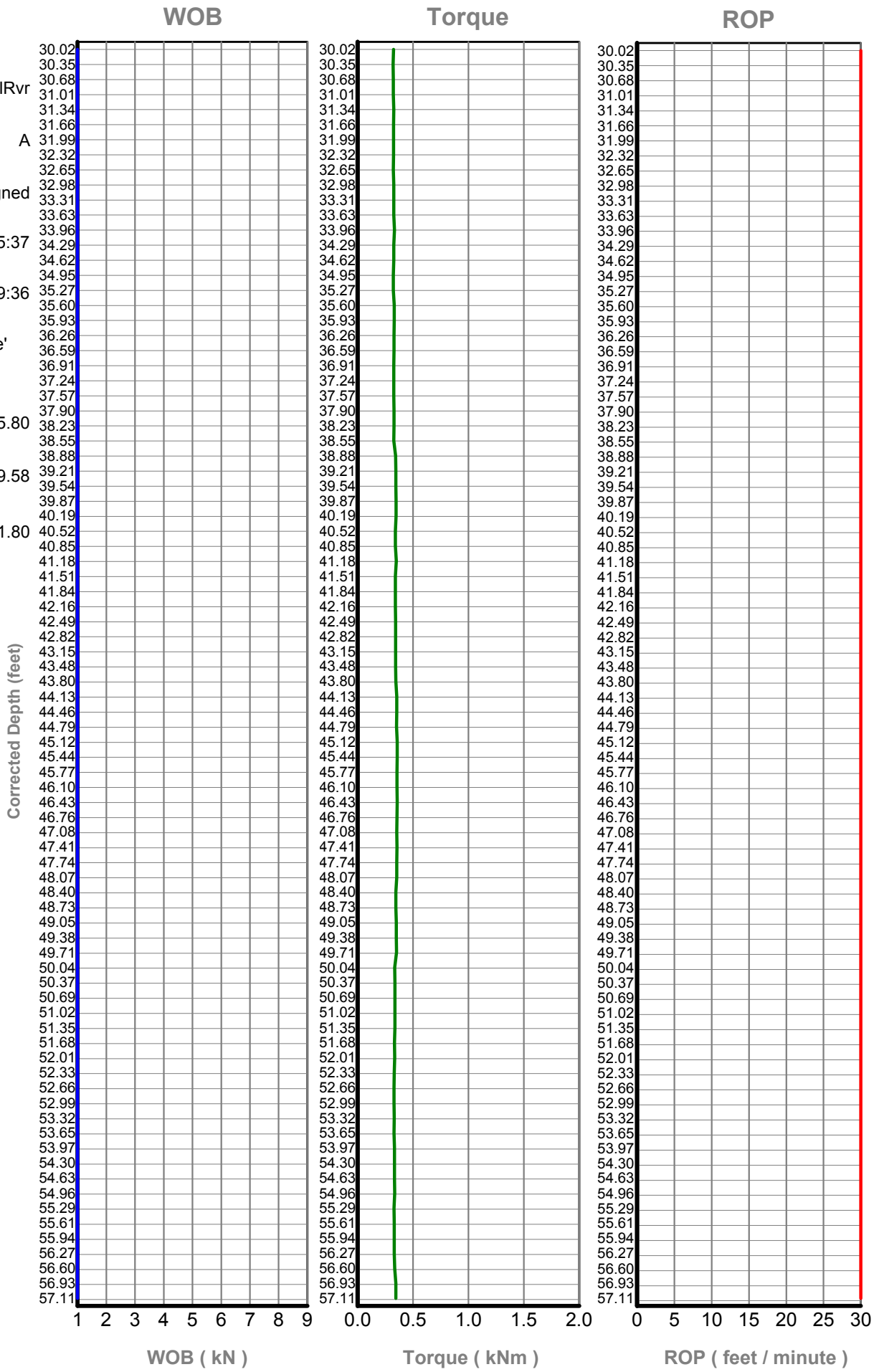
**End Date:**
4/23/2015 9:59:36

**Operator Note:**
'1.8 1.9b Auto Complete'

**Northing:**
367,525.80

**Easting:**
251,589.58

**Tide (feet):**
1.80



## Hole: F16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:55:31 | 31.82 | 30.02 | 387 | 1.60 | 0.31 | 21.2 |
| 4/23/2015 9:55:32 | 32.15 | 30.35 | 385 | 1.62 | 0.31 | 21.0 |
| 4/23/2015 9:55:33 | 32.48 | 30.68 | 385 | 1.59 | 0.31 | 21.0 |
| 4/23/2015 9:55:34 | 32.81 | 31.01 | 387 | 1.61 | 0.31 | 21.1 |
| 4/23/2015 9:55:35 | 33.14 | 31.34 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 9:55:35 | 33.46 | 31.66 | 385 | 1.59 | 0.31 | 21.0 |
| 4/23/2015 9:55:36 | 33.79 | 31.99 | 375 | 1.60 | 0.31 | 20.5 |
| 4/23/2015 9:55:38 | 34.12 | 32.32 | 382 | 1.60 | 0.31 | 20.9 |
| 4/23/2015 9:55:39 | 34.45 | 32.65 | 377 | 1.61 | 0.31 | 20.6 |
| 4/23/2015 9:55:39 | 34.78 | 32.98 | 387 | 1.59 | 0.31 | 21.2 |
| 4/23/2015 9:55:40 | 35.11 | 33.31 | 371 | 1.60 | 0.31 | 20.3 |
| 4/23/2015 9:55:41 | 35.43 | 33.63 | 387 | 1.59 | 0.31 | 21.2 |
| 4/23/2015 9:55:42 | 35.76 | 33.96 | 382 | 1.59 | 0.30 | 20.9 |
| 4/23/2015 9:55:43 | 36.09 | 34.29 | 385 | 1.60 | 0.31 | 21.0 |
| 4/23/2015 9:55:44 | 36.42 | 34.62 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 9:55:45 | 36.75 | 34.95 | 382 | 1.60 | 0.30 | 20.9 |
| 4/23/2015 9:55:46 | 37.07 | 35.27 | 382 | 1.61 | 0.31 | 20.9 |
| 4/23/2015 9:55:47 | 37.40 | 35.60 | 385 | 1.58 | 0.31 | 21.0 |
| 4/23/2015 9:55:48 | 37.73 | 35.93 | 382 | 1.60 | 0.31 | 20.9 |
| 4/23/2015 9:55:49 | 38.06 | 36.26 | 384 | 1.59 | 0.30 | 21.0 |
| 4/23/2015 9:55:50 | 38.39 | 36.59 | 385 | 1.59 | 0.31 | 21.0 |
| 4/23/2015 9:55:51 | 38.71 | 36.91 | 382 | 1.61 | 0.30 | 20.9 |
| 4/23/2015 9:55:52 | 39.04 | 37.24 | 387 | 1.59 | 0.31 | 21.2 |
| 4/23/2015 9:55:53 | 39.37 | 37.57 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 9:55:53 | 39.70 | 37.90 | 382 | 1.60 | 0.30 | 20.9 |
| 4/23/2015 9:55:54 | 40.03 | 38.23 | 382 | 1.62 | 0.30 | 20.9 |
| 4/23/2015 9:55:55 | 40.35 | 38.55 | 384 | 1.59 | 0.31 | 21.0 |
| 4/23/2015 9:55:56 | 40.68 | 38.88 | 384 | 1.59 | 0.30 | 21.0 |
| 4/23/2015 9:55:57 | 41.01 | 39.21 | 379 | 1.58 | 0.31 | 20.7 |
| 4/23/2015 9:55:58 | 41.34 | 39.54 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 9:55:59 | 41.67 | 39.87 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 9:56:00 | 41.99 | 40.19 | 384 | 1.60 | 0.30 | 21.0 |
| 4/23/2015 9:56:01 | 42.32 | 40.52 | 381 | 1.60 | 0.30 | 20.8 |
| 4/23/2015 9:56:02 | 42.65 | 40.85 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 9:56:03 | 42.98 | 41.18 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 9:56:04 | 43.31 | 41.51 | 377 | 1.60 | 0.30 | 20.6 |
| 4/23/2015 9:56:05 | 43.64 | 41.84 | 382 | 1.59 | 0.30 | 20.9 |
| 4/23/2015 9:56:06 | 43.96 | 42.16 | 382 | 1.59 | 0.30 | 20.9 |
| 4/23/2015 9:56:07 | 44.29 | 42.49 | 379 | 1.58 | 0.30 | 20.7 |
| 4/23/2015 9:56:07 | 44.62 | 42.82 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 9:56:08 | 44.95 | 43.15 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 9:56:10 | 45.28 | 43.48 | 379 | 1.57 | 0.30 | 20.7 |
| 4/23/2015 9:56:11 | 45.60 | 43.80 | 385 | 1.60 | 0.30 | 21.0 |
| 4/23/2015 9:56:12 | 45.93 | 44.13 | 382 | 1.60 | 0.30 | 20.9 |
| 4/23/2015 9:56:12 | 46.26 | 44.46 | 382 | 1.60 | 0.30 | 20.9 |
| 4/23/2015 9:56:13 | 46.59 | 44.79 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 9:56:14 | 46.92 | 45.12 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 9:56:15 | 47.24 | 45.44 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 9:56:16 | 47.57 | 45.77 | 380 | 1.59 | 0.30 | 20.8 |
| 4/23/2015 9:56:17 | 47.90 | 46.10 | 379 | 1.61 | 0.30 | 20.7 |
| 4/23/2015 9:56:18 | 48.23 | 46.43 | 379 | 1.62 | 0.30 | 20.7 |
| 4/23/2015 9:56:40 | 48.56 | 46.76 | 0 | 1.62 | 1.12 | 0.0 |
| 4/23/2015 9:56:41 | 48.88 | 47.08 | 97 | 1.59 | 1.08 | 5.3 |
| 4/23/2015 9:56:43 | 49.21 | 47.41 | 295 | 1.59 | 1.10 | 16.2 |
| 4/23/2015 9:56:44 | 49.54 | 47.74 | 319 | 1.59 | 1.32 | 17.5 |
| 4/23/2015 9:56:45 | 49.87 | 48.07 | 292 | 1.62 | 1.16 | 15.9 |
| 4/23/2015 9:56:46 | 50.20 | 48.40 | 257 | 1.59 | 1.27 | 14.0 |
| 4/23/2015 9:56:48 | 50.53 | 48.73 | 239 | 1.60 | 1.07 | 13.0 |
| 4/23/2015 9:56:49 | 50.85 | 49.05 | 272 | 1.61 | 1.04 | 14.9 |
| 4/23/2015 9:56:50 | 51.18 | 49.38 | 289 | 1.59 | 1.45 | 15.8 |
| 4/23/2015 9:56:54 | 51.51 | 49.71 | 109 | 1.59 | 1.11 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:56:58 | 51.84 | 50.04 | 66 | 1.62 | 1.15 | 3.6 |
| 4/23/2015 | 9:57:05 | 52.17 | 50.37 | 49 | 1.58 | 1.13 | 2.7 |
| 4/23/2015 | 9:57:12 | 52.49 | 50.69 | 58 | 1.60 | 1.14 | 3.2 |
| 4/23/2015 | 9:57:17 | 52.82 | 51.02 | 84 | 1.57 | 1.14 | 4.6 |
| 4/23/2015 | 9:57:21 | 53.15 | 51.35 | 64 | 1.59 | 1.10 | 3.5 |
| 4/23/2015 | 9:57:28 | 53.48 | 51.68 | 53 | 1.60 | 1.13 | 2.9 |
| 4/23/2015 | 9:57:36 | 53.81 | 52.01 | 46 | 1.61 | 1.15 | 2.5 |
| 4/23/2015 | 9:57:41 | 54.13 | 52.33 | 83 | 1.58 | 1.12 | 4.5 |
| 4/23/2015 | 9:57:47 | 54.46 | 52.66 | 46 | 1.60 | 1.11 | 2.5 |
| 4/23/2015 | 9:57:56 | 54.79 | 52.99 | 36 | 1.60 | 1.15 | 2.0 |
| 4/23/2015 | 9:58:05 | 55.12 | 53.32 | 44 | 1.60 | 1.13 | 2.4 |
| 4/23/2015 | 9:58:15 | 55.45 | 53.65 | 38 | 1.59 | 1.08 | 2.1 |
| 4/23/2015 | 9:58:24 | 55.77 | 53.97 | 40 | 1.60 | 1.07 | 2.2 |
| 4/23/2015 | 9:58:28 | 55.93 | 54.13 | 37 | 1.61 | 1.06 | 2.0 |

## F16 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:53:22

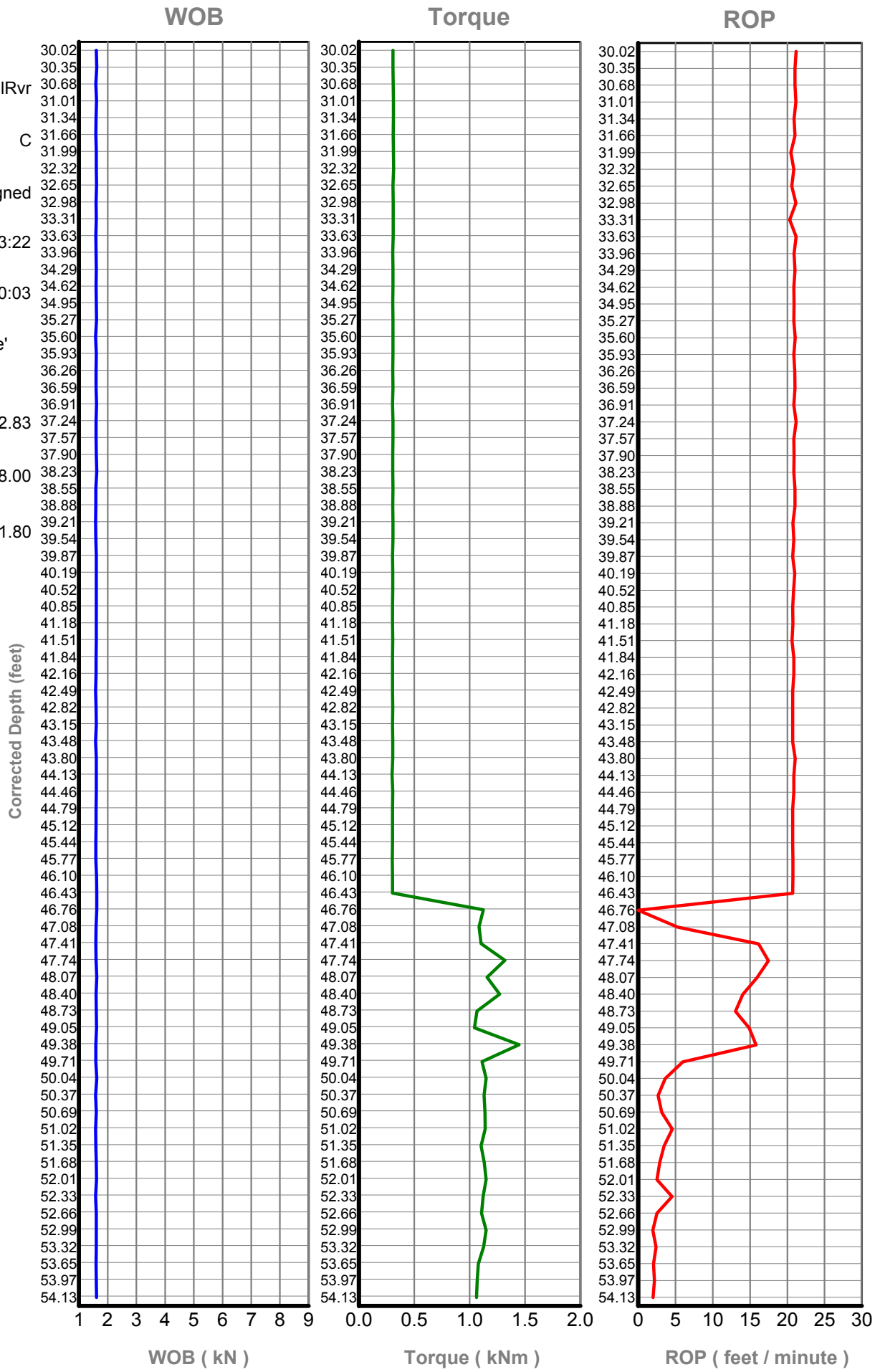
**End Date:**
4/23/2015 10:00:03

**Operator Note:**
'1.8 1.9 c Auto Complete'

**Northing:**
367,572.83

**Easting:**
251,648.00

**Tide (feet):**
1.80



## Hole: F17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:30:54 | 34.45 | 30.05 | 862 | 0.26 | 0.34 | 47.1 |
| 4/23/2015 2:30:54 | 34.78 | 30.38 | 864 | 0.27 | 0.34 | 47.3 |
| 4/23/2015 2:30:55 | 35.11 | 30.71 | 854 | 0.26 | 0.34 | 46.7 |
| 4/23/2015 2:30:55 | 35.43 | 31.03 | 856 | 0.26 | 0.34 | 46.8 |
| 4/23/2015 2:30:56 | 35.76 | 31.36 | 856 | 0.26 | 0.34 | 46.8 |
| 4/23/2015 2:30:56 | 36.09 | 31.69 | 850 | 0.26 | 0.33 | 46.5 |
| 4/23/2015 2:30:57 | 36.42 | 32.02 | 852 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 2:30:57 | 36.75 | 32.35 | 841 | 0.24 | 0.33 | 46.0 |
| 4/23/2015 2:30:58 | 37.07 | 32.67 | 843 | 0.20 | 0.33 | 46.1 |
| 4/23/2015 2:30:58 | 37.40 | 33.00 | 839 | 0.21 | 0.33 | 45.9 |
| 4/23/2015 2:30:59 | 37.73 | 33.33 | 839 | 0.21 | 0.33 | 45.9 |
| 4/23/2015 2:30:59 | 38.06 | 33.66 | 850 | 0.21 | 0.33 | 46.5 |
| 4/23/2015 2:30:59 | 38.39 | 33.99 | 853 | 0.21 | 0.33 | 46.6 |
| 4/23/2015 2:31:00 | 38.71 | 34.31 | 862 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 2:31:00 | 39.04 | 34.64 | 862 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 2:31:00 | 39.37 | 34.97 | 865 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:01 | 39.70 | 35.30 | 875 | 0.21 | 0.33 | 47.9 |
| 4/23/2015 2:31:01 | 40.03 | 35.63 | 873 | 0.21 | 0.26 | 47.7 |
| 4/23/2015 2:31:02 | 40.35 | 35.95 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 2:31:02 | 40.68 | 36.28 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 2:31:02 | 41.01 | 36.61 | 870 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 2:31:03 | 41.34 | 36.94 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:31:10 | 41.67 | 37.27 | 0 | 0.20 | 0.33 | 0.0 |
| 4/23/2015 2:31:11 | 41.99 | 37.59 | 140 | 0.21 | 0.33 | 7.7 |
| 4/23/2015 2:31:11 | 42.32 | 37.92 | 311 | 0.21 | 0.34 | 17.0 |
| 4/23/2015 2:31:12 | 42.65 | 38.25 | 311 | 0.21 | 0.34 | 17.0 |
| 4/23/2015 2:31:12 | 42.98 | 38.58 | 485 | 0.21 | 0.33 | 26.5 |
| 4/23/2015 2:31:12 | 43.31 | 38.91 | 653 | 0.21 | 0.33 | 35.7 |
| 4/23/2015 2:31:13 | 43.64 | 39.24 | 825 | 0.20 | 0.33 | 45.1 |
| 4/23/2015 2:31:13 | 43.96 | 39.56 | 864 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:14 | 44.29 | 39.89 | 864 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:14 | 44.62 | 40.22 | 849 | 0.20 | 0.33 | 46.4 |
| 4/23/2015 2:31:14 | 44.95 | 40.55 | 849 | 0.20 | 0.33 | 46.4 |
| 4/23/2015 2:31:15 | 45.28 | 40.88 | 862 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 2:31:15 | 45.60 | 41.20 | 862 | 0.22 | 0.34 | 47.1 |
| 4/23/2015 2:31:16 | 45.93 | 41.53 | 862 | 0.22 | 0.34 | 47.1 |
| 4/23/2015 2:31:16 | 46.26 | 41.86 | 864 | 0.21 | 0.29 | 47.3 |
| 4/23/2015 2:31:16 | 46.59 | 42.19 | 856 | 0.20 | 0.33 | 46.8 |
| 4/23/2015 2:31:17 | 46.92 | 42.52 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:31:18 | 47.24 | 42.84 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:31:18 | 47.57 | 43.17 | 867 | 0.20 | 0.34 | 47.4 |
| 4/23/2015 2:31:18 | 47.90 | 43.50 | 867 | 0.21 | 0.33 | 47.4 |
| 4/23/2015 2:31:19 | 48.23 | 43.83 | 870 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 2:31:19 | 48.56 | 44.16 | 867 | 0.21 | 0.33 | 47.4 |
| 4/23/2015 2:31:20 | 48.88 | 44.48 | 867 | 0.21 | 0.33 | 47.4 |
| 4/23/2015 2:31:20 | 49.21 | 44.81 | 865 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:20 | 49.54 | 45.14 | 865 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:21 | 49.87 | 45.47 | 865 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 2:31:21 | 50.20 | 45.80 | 860 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 2:31:22 | 50.53 | 46.13 | 860 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 2:31:22 | 50.85 | 46.45 | 871 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 2:31:22 | 51.18 | 46.78 | 870 | 0.20 | 0.35 | 47.6 |
| 4/23/2015 2:32:07 | 51.51 | 47.11 | 0 | 3.62 | 0.38 | 0.0 |
| 4/23/2015 2:32:08 | 51.84 | 47.44 | 101 | 3.87 | 0.38 | 5.5 |
| 4/23/2015 2:32:10 | 52.17 | 47.77 | 203 | 5.76 | 0.39 | 11.1 |
| 4/23/2015 2:32:12 | 52.49 | 48.09 | 229 | 5.02 | 0.39 | 12.5 |
| 4/23/2015 2:32:13 | 52.82 | 48.42 | 207 | 4.35 | 0.39 | 11.3 |
| 4/23/2015 2:32:17 | 53.15 | 48.75 | 0 | 3.39 | 0.37 | 0.0 |
| 4/23/2015 2:32:19 | 53.48 | 49.08 | 96 | 4.32 | 0.38 | 5.2 |
| 4/23/2015 2:32:21 | 53.81 | 49.41 | 183 | 4.74 | 0.37 | 10.0 |
| 4/23/2015 2:32:22 | 54.13 | 49.73 | 235 | 3.61 | 0.38 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:32:23 | 54.46 | 50.06 | 261 | 3.55 | 0.37 | 14.3 |
| 4/23/2015 | 2:32:24 | 54.79 | 50.39 | 285 | 3.96 | 0.36 | 15.6 |
| 4/23/2015 | 2:32:24 | 55.12 | 50.72 | 338 | 2.69 | 0.35 | 18.5 |
| 4/23/2015 | 2:32:25 | 55.45 | 51.05 | 408 | 3.27 | 0.35 | 22.3 |
| 4/23/2015 | 2:32:35 | 55.77 | 51.37 | 59 | 2.33 | 0.34 | 3.2 |
| 4/23/2015 | 2:32:36 | 56.10 | 51.70 | 200 | 3.16 | 0.35 | 11.0 |
| 4/23/2015 | 2:32:36 | 56.43 | 52.03 | 200 | 4.72 | 0.38 | 11.0 |
| 4/23/2015 | 2:32:41 | 56.76 | 52.36 | 41 | 3.73 | 0.39 | 2.2 |
| 4/23/2015 | 2:32:51 | 57.09 | 52.69 | 26 | 5.46 | 0.37 | 1.4 |
| 4/23/2015 | 2:32:52 | 57.41 | 53.01 | 67 | 4.26 | 0.39 | 3.7 |
| 4/23/2015 | 2:32:55 | 57.74 | 53.34 | 169 | 6.45 | 0.41 | 9.2 |
| 4/23/2015 | 2:32:57 | 58.07 | 53.67 | 137 | 3.61 | 0.38 | 7.5 |
| 4/23/2015 | 2:33:00 | 58.40 | 54.00 | 144 | 3.33 | 0.38 | 7.9 |
| 4/23/2015 | 2:33:08 | 58.73 | 54.33 | 14 | 7.57 | 0.41 | 0.8 |
| 4/23/2015 | 2:33:15 | 59.06 | 54.66 | 27 | 4.70 | 0.38 | 1.5 |
| 4/23/2015 | 2:33:17 | 59.38 | 54.98 | 186 | 5.40 | 0.39 | 10.2 |
| 4/23/2015 | 2:33:18 | 59.64 | 55.24 | 220 | 4.14 | 0.42 | 12.0 |

## F17 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:27:21

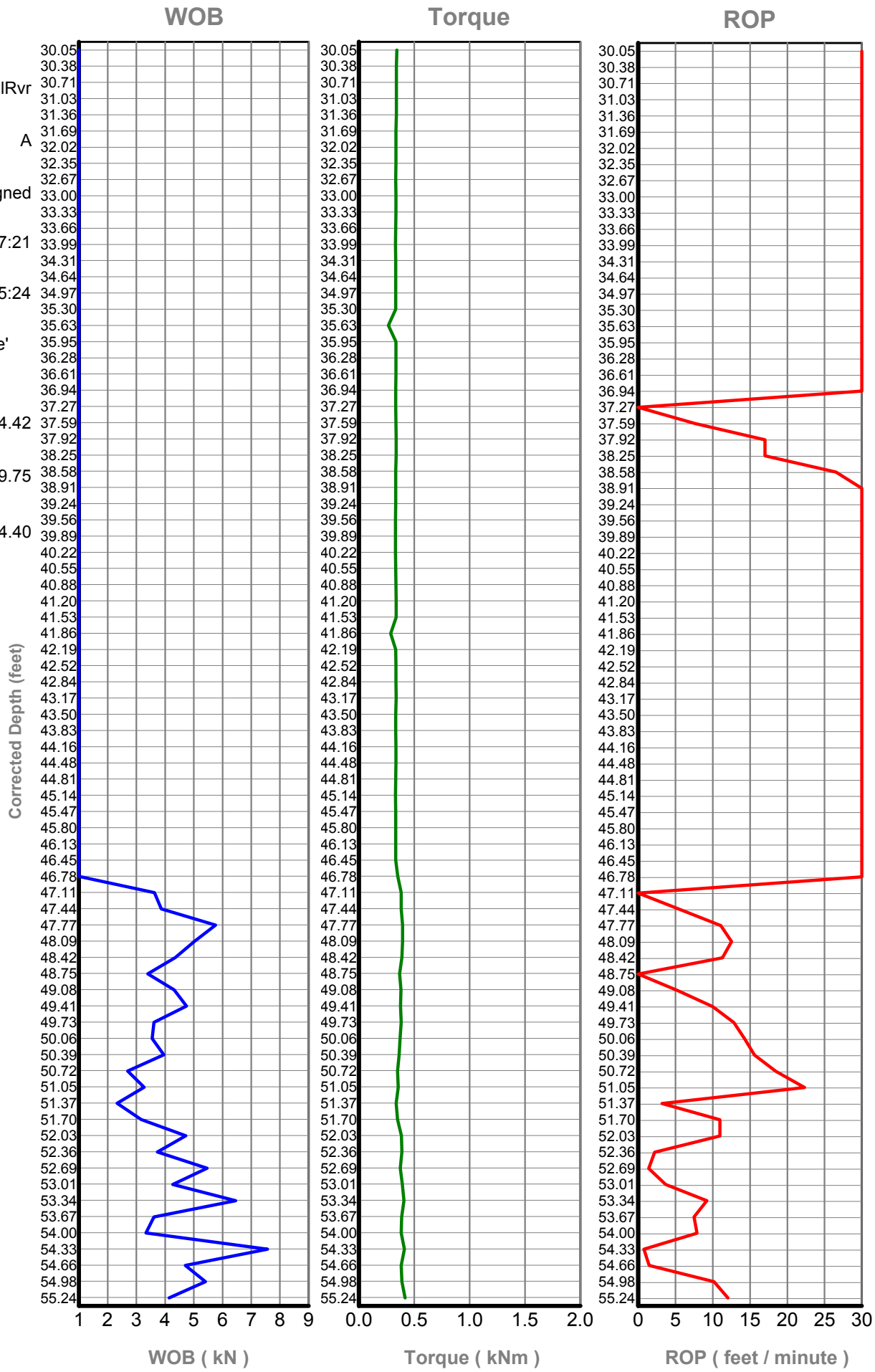
**End Date:**
4/23/2015 2:35:24

**Operator Note:**
'4.4 4.4 b Auto Complete'

**Northing:**
367,624.42

**Easting:**
251,719.75

**Tide (feet):**
4.40



## Hole: F18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:40:19 | 34.78 | 30.08 | 911 | 0.21 | 0.32 | 49.8 |
| 4/23/2015 2:40:19 | 35.11 | 30.41 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 2:40:20 | 35.43 | 30.73 | 913 | 0.21 | 0.33 | 49.9 |
| 4/23/2015 2:40:20 | 35.76 | 31.06 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 2:40:21 | 36.09 | 31.39 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 2:40:21 | 36.42 | 31.72 | 902 | 0.21 | 0.33 | 49.3 |
| 4/23/2015 2:40:21 | 36.75 | 32.05 | 902 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 2:40:22 | 37.07 | 32.37 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 2:40:22 | 37.40 | 32.70 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 2:40:36 | 37.73 | 33.03 | 0 | 0.18 | 0.35 | 0.0 |
| 4/23/2015 2:40:36 | 38.06 | 33.36 | 91 | 0.20 | 0.33 | 5.0 |
| 4/23/2015 2:40:37 | 38.39 | 33.69 | 260 | 0.18 | 0.33 | 14.2 |
| 4/23/2015 2:40:37 | 38.71 | 34.01 | 437 | 0.22 | 0.33 | 23.9 |
| 4/23/2015 2:40:38 | 39.04 | 34.34 | 437 | 0.22 | 0.33 | 23.9 |
| 4/23/2015 2:40:38 | 39.37 | 34.67 | 616 | 0.22 | 0.33 | 33.7 |
| 4/23/2015 2:40:38 | 39.70 | 35.00 | 791 | 0.21 | 0.33 | 43.2 |
| 4/23/2015 2:40:39 | 40.03 | 35.33 | 879 | 0.21 | 0.33 | 48.1 |
| 4/23/2015 2:40:40 | 40.35 | 35.65 | 882 | 0.20 | 0.40 | 48.2 |
| 4/23/2015 2:41:11 | 40.68 | 35.98 | 3 | 0.16 | 0.35 | 0.2 |
| 4/23/2015 2:41:11 | 41.01 | 36.31 | 60 | 0.20 | 0.33 | 3.3 |
| 4/23/2015 2:41:12 | 41.34 | 36.64 | 231 | 0.20 | 0.33 | 12.6 |
| 4/23/2015 2:41:12 | 41.67 | 36.97 | 399 | 0.20 | 0.33 | 21.8 |
| 4/23/2015 2:41:13 | 41.99 | 37.29 | 571 | 0.20 | 0.33 | 31.2 |
| 4/23/2015 2:41:13 | 42.32 | 37.62 | 571 | 0.20 | 0.33 | 31.2 |
| 4/23/2015 2:41:13 | 42.65 | 37.95 | 742 | 0.20 | 0.33 | 40.6 |
| 4/23/2015 2:41:14 | 42.98 | 38.28 | 861 | 0.20 | 0.34 | 47.1 |
| 4/23/2015 2:41:14 | 43.31 | 38.61 | 862 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 2:41:15 | 43.64 | 38.94 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:41:15 | 43.96 | 39.26 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:41:15 | 44.29 | 39.59 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:41:16 | 44.62 | 39.92 | 881 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 2:41:16 | 44.95 | 40.25 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 2:41:17 | 45.28 | 40.58 | 870 | 0.20 | 0.32 | 47.6 |
| 4/23/2015 2:41:17 | 45.60 | 40.90 | 870 | 0.20 | 0.32 | 47.6 |
| 4/23/2015 2:41:17 | 45.93 | 41.23 | 862 | 0.20 | 0.33 | 47.2 |
| 4/23/2015 2:41:18 | 46.26 | 41.56 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:41:18 | 46.59 | 41.89 | 867 | 0.18 | 0.33 | 47.4 |
| 4/23/2015 2:41:19 | 46.92 | 42.22 | 867 | 0.18 | 0.33 | 47.4 |
| 4/23/2015 2:41:19 | 47.24 | 42.54 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 2:41:19 | 47.57 | 42.87 | 864 | 0.20 | 0.33 | 47.2 |
| 4/23/2015 2:41:20 | 47.90 | 43.20 | 866 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 2:41:20 | 48.23 | 43.53 | 866 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 2:41:21 | 48.56 | 43.86 | 866 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 2:41:21 | 48.88 | 44.18 | 869 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 2:41:22 | 49.21 | 44.51 | 858 | 0.20 | 0.33 | 46.9 |
| 4/23/2015 2:41:22 | 49.54 | 44.84 | 861 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 2:41:23 | 49.87 | 45.17 | 872 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 2:41:23 | 50.20 | 45.50 | 872 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 2:41:23 | 50.53 | 45.83 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 2:41:24 | 50.85 | 46.15 | 859 | 0.19 | 0.35 | 47.0 |
| 4/23/2015 2:41:24 | 51.18 | 46.48 | 849 | 0.18 | 0.37 | 46.5 |
| 4/23/2015 2:41:48 | 51.51 | 46.81 | 95 | 2.19 | 0.37 | 5.2 |
| 4/23/2015 2:41:48 | 51.84 | 47.14 | 168 | 2.44 | 0.37 | 9.2 |
| 4/23/2015 2:41:50 | 52.17 | 47.47 | 279 | 2.40 | 0.34 | 15.3 |
| 4/23/2015 2:41:59 | 52.49 | 47.79 | 6 | 3.70 | 0.35 | 0.3 |
| 4/23/2015 2:41:59 | 52.82 | 48.12 | 122 | 7.64 | 0.42 | 6.7 |
| 4/23/2015 2:42:02 | 53.15 | 48.45 | 248 | 5.32 | 0.38 | 13.5 |
| 4/23/2015 2:42:15 | 53.48 | 48.78 | 22 | 3.23 | 0.37 | 1.2 |
| 4/23/2015 2:42:16 | 53.81 | 49.11 | 97 | 3.20 | 0.37 | 5.3 |
| 4/23/2015 2:42:17 | 54.13 | 49.43 | 175 | 2.90 | 0.37 | 9.6 |
| 4/23/2015 2:42:18 | 54.46 | 49.76 | 355 | 3.15 | 0.37 | 19.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:42:19 | 54.79 | 50.09 | 425 | 2.64 | 0.37 | 23.2 |
| 4/23/2015 | 2:42:20 | 55.12 | 50.42 | 402 | 2.57 | 0.37 | 22.0 |
| 4/23/2015 | 2:42:20 | 55.45 | 50.75 | 384 | 2.74 | 0.38 | 21.0 |
| 4/23/2015 | 2:42:21 | 55.77 | 51.07 | 367 | 2.78 | 0.38 | 20.1 |
| 4/23/2015 | 2:42:23 | 56.10 | 51.40 | 338 | 2.40 | 0.29 | 18.5 |
| 4/23/2015 | 2:42:24 | 56.43 | 51.73 | 338 | 2.44 | 0.37 | 18.5 |
| 4/23/2015 | 2:42:25 | 56.76 | 52.06 | 359 | 2.55 | 0.37 | 19.6 |
| 4/23/2015 | 2:42:26 | 57.09 | 52.39 | 370 | 2.57 | 0.37 | 20.2 |
| 4/23/2015 | 2:42:27 | 57.41 | 52.71 | 365 | 2.48 | 0.37 | 20.0 |
| 4/23/2015 | 2:42:28 | 57.74 | 53.04 | 358 | 3.96 | 0.39 | 19.6 |
| 4/23/2015 | 2:42:39 | 58.07 | 53.37 | 78 | 4.31 | 0.38 | 4.3 |
| 4/23/2015 | 2:42:40 | 58.40 | 53.70 | 193 | 2.24 | 0.37 | 10.5 |
| 4/23/2015 | 2:42:41 | 58.73 | 54.03 | 335 | 2.14 | 0.37 | 18.3 |
| 4/23/2015 | 2:42:41 | 59.06 | 54.36 | 382 | 2.29 | 0.37 | 20.9 |
| 4/23/2015 | 2:42:42 | 59.38 | 54.68 | 419 | 2.14 | 0.37 | 22.9 |
| 4/23/2015 | 2:42:43 | 59.71 | 55.01 | 425 | 2.36 | 0.37 | 23.2 |
| 4/23/2015 | 2:42:43 | 59.91 | 55.21 | 419 | 2.69 | 0.37 | 22.9 |

## F18 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:36:58

**End Date:**
4/23/2015 2:44:31

**Operator Note:**
'4.7 4.7 b Auto Complete'

**Northing:**
367,660.25

**Easting:**
251,766.61

**Tide (feet):**
4.70



## Hole: F19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:30:37 | 34.78 | 30.08 | 482 | 1.69 | 0.16 | 26.3 |
| 4/23/2015 2:30:37 | 35.11 | 30.41 | 485 | 1.70 | 0.16 | 26.5 |
| 4/23/2015 2:30:38 | 35.43 | 30.73 | 479 | 1.69 | 0.16 | 26.2 |
| 4/23/2015 2:30:39 | 35.76 | 31.06 | 489 | 1.66 | 0.16 | 26.7 |
| 4/23/2015 2:30:39 | 36.09 | 31.39 | 486 | 1.70 | 0.16 | 26.6 |
| 4/23/2015 2:30:40 | 36.42 | 31.72 | 480 | 1.69 | 0.16 | 26.2 |
| 4/23/2015 2:30:41 | 36.75 | 32.05 | 480 | 1.69 | 0.16 | 26.2 |
| 4/23/2015 2:30:42 | 37.07 | 32.37 | 483 | 1.69 | 0.16 | 26.4 |
| 4/23/2015 2:30:43 | 37.40 | 32.70 | 486 | 1.72 | 0.16 | 26.6 |
| 4/23/2015 2:30:44 | 37.73 | 33.03 | 483 | 1.69 | 0.16 | 26.4 |
| 4/23/2015 2:30:44 | 38.06 | 33.36 | 483 | 1.68 | 0.16 | 26.4 |
| 4/23/2015 2:30:45 | 38.39 | 33.69 | 483 | 1.68 | 0.16 | 26.4 |
| 4/23/2015 2:30:46 | 38.71 | 34.01 | 483 | 1.67 | 0.16 | 26.4 |
| 4/23/2015 2:30:46 | 39.04 | 34.34 | 483 | 1.69 | 0.16 | 26.4 |
| 4/23/2015 2:30:47 | 39.37 | 34.67 | 480 | 1.70 | 0.16 | 26.2 |
| 4/23/2015 2:30:48 | 39.70 | 35.00 | 483 | 1.71 | 0.16 | 26.4 |
| 4/23/2015 2:30:49 | 40.03 | 35.33 | 480 | 1.67 | 0.16 | 26.2 |
| 4/23/2015 2:30:49 | 40.35 | 35.65 | 477 | 1.68 | 0.16 | 26.1 |
| 4/23/2015 2:30:50 | 40.68 | 35.98 | 483 | 1.68 | 0.16 | 26.4 |
| 4/23/2015 2:30:51 | 41.01 | 36.31 | 480 | 1.68 | 0.16 | 26.2 |
| 4/23/2015 2:30:51 | 41.34 | 36.64 | 480 | 1.67 | 0.16 | 26.2 |
| 4/23/2015 2:30:53 | 41.67 | 36.97 | 483 | 1.72 | 0.16 | 26.4 |
| 4/23/2015 2:30:53 | 41.99 | 37.29 | 476 | 1.68 | 0.16 | 26.0 |
| 4/23/2015 2:30:54 | 42.32 | 37.62 | 471 | 1.70 | 0.16 | 25.8 |
| 4/23/2015 2:30:55 | 42.65 | 37.95 | 471 | 1.68 | 0.16 | 25.8 |
| 4/23/2015 2:30:55 | 42.98 | 38.28 | 475 | 1.69 | 0.16 | 26.0 |
| 4/23/2015 2:30:56 | 43.31 | 38.61 | 470 | 1.68 | 0.16 | 25.7 |
| 4/23/2015 2:30:57 | 43.64 | 38.94 | 471 | 1.71 | 0.16 | 25.8 |
| 4/23/2015 2:30:58 | 43.96 | 39.26 | 471 | 1.70 | 0.16 | 25.8 |
| 4/23/2015 2:30:58 | 44.29 | 39.59 | 476 | 1.68 | 0.16 | 26.1 |
| 4/23/2015 2:30:59 | 44.62 | 39.92 | 478 | 1.72 | 0.16 | 26.1 |
| 4/23/2015 2:31:00 | 44.95 | 40.25 | 473 | 1.70 | 0.16 | 25.9 |
| 4/23/2015 2:31:00 | 45.28 | 40.58 | 479 | 1.68 | 0.16 | 26.2 |
| 4/23/2015 2:31:01 | 45.60 | 40.90 | 468 | 1.69 | 0.16 | 25.6 |
| 4/23/2015 2:31:02 | 45.93 | 41.23 | 473 | 1.68 | 0.16 | 25.9 |
| 4/23/2015 2:31:03 | 46.26 | 41.56 | 473 | 1.69 | 0.16 | 25.9 |
| 4/23/2015 2:31:04 | 46.59 | 41.89 | 473 | 1.66 | 0.16 | 25.9 |
| 4/23/2015 2:31:05 | 46.92 | 42.22 | 486 | 1.68 | 0.16 | 26.6 |
| 4/23/2015 2:31:05 | 47.24 | 42.54 | 483 | 1.68 | 0.16 | 26.4 |
| 4/23/2015 2:31:06 | 47.57 | 42.87 | 482 | 1.70 | 0.16 | 26.4 |
| 4/23/2015 2:31:07 | 47.90 | 43.20 | 475 | 1.68 | 0.16 | 26.0 |
| 4/23/2015 2:31:07 | 48.23 | 43.53 | 466 | 1.71 | 0.16 | 25.5 |
| 4/23/2015 2:31:08 | 48.56 | 43.86 | 470 | 1.68 | 0.16 | 25.7 |
| 4/23/2015 2:31:09 | 48.88 | 44.18 | 467 | 1.68 | 0.16 | 25.6 |
| 4/23/2015 2:31:10 | 49.21 | 44.51 | 479 | 1.69 | 0.16 | 26.2 |
| 4/23/2015 2:31:10 | 49.54 | 44.84 | 481 | 1.68 | 0.16 | 26.3 |
| 4/23/2015 2:31:11 | 49.87 | 45.17 | 483 | 1.71 | 0.16 | 26.4 |
| 4/23/2015 2:31:12 | 50.20 | 45.50 | 474 | 1.68 | 0.16 | 25.9 |
| 4/23/2015 2:31:12 | 50.53 | 45.83 | 474 | 1.67 | 0.16 | 25.9 |
| 4/23/2015 2:32:33 | 50.85 | 46.15 | 67 | 1.69 | 1.32 | 3.7 |
| 4/23/2015 2:32:34 | 51.18 | 46.48 | 170 | 1.68 | 1.13 | 9.3 |
| 4/23/2015 2:32:35 | 51.51 | 46.81 | 254 | 1.67 | 1.15 | 13.9 |
| 4/23/2015 2:32:48 | 51.84 | 47.14 | 0 | 1.69 | 0.97 | 0.0 |
| 4/23/2015 2:32:49 | 52.17 | 47.47 | 148 | 1.69 | 1.11 | 8.1 |
| 4/23/2015 2:32:51 | 52.49 | 47.79 | 307 | 1.72 | 1.07 | 16.8 |
| 4/23/2015 2:32:52 | 52.82 | 48.12 | 269 | 1.68 | 1.01 | 14.7 |
| 4/23/2015 2:32:53 | 53.15 | 48.45 | 279 | 1.70 | 1.17 | 15.3 |
| 4/23/2015 2:32:54 | 53.48 | 48.78 | 318 | 1.66 | 1.11 | 17.4 |
| 4/23/2015 2:32:55 | 53.81 | 49.11 | 283 | 1.70 | 1.19 | 15.5 |
| 4/23/2015 2:33:05 | 54.13 | 49.43 | 91 | 1.70 | 1.07 | 5.0 |
| 4/23/2015 2:33:06 | 54.46 | 49.76 | 206 | 1.69 | 1.55 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:33:08 | 54.79 | 50.09 | 291 | 1.70 | 1.18 | 15.9 |
| 4/23/2015 | 2:33:09 | 55.12 | 50.42 | 243 | 1.69 | 1.13 | 13.3 |
| 4/23/2015 | 2:33:11 | 55.45 | 50.75 | 213 | 1.69 | 1.04 | 11.6 |
| 4/23/2015 | 2:33:40 | 55.77 | 51.07 | 78 | 1.70 | 1.11 | 4.3 |
| 4/23/2015 | 2:33:42 | 56.10 | 51.40 | 170 | 1.73 | 0.95 | 9.3 |
| 4/23/2015 | 2:33:44 | 56.43 | 51.73 | 136 | 1.70 | 1.20 | 7.4 |
| 4/23/2015 | 2:33:46 | 56.76 | 52.06 | 173 | 1.69 | 1.40 | 9.5 |
| 4/23/2015 | 2:34:32 | 57.09 | 52.39 | 0 | 1.69 | 1.26 | 0.0 |
| 4/23/2015 | 2:34:35 | 57.41 | 52.71 | 112 | 1.68 | 1.25 | 6.1 |
| 4/23/2015 | 2:34:37 | 57.74 | 53.04 | 143 | 1.70 | 1.13 | 7.8 |
| 4/23/2015 | 2:34:40 | 58.07 | 53.37 | 129 | 1.70 | 1.15 | 7.1 |
| 4/23/2015 | 2:34:44 | 58.40 | 53.70 | 92 | 1.70 | 1.18 | 5.1 |
| 4/23/2015 | 2:34:49 | 58.73 | 54.03 | 66 | 1.70 | 1.15 | 3.6 |
| 4/23/2015 | 2:34:55 | 59.06 | 54.36 | 58 | 1.70 | 1.08 | 3.2 |
| 4/23/2015 | 2:35:01 | 59.38 | 54.68 | 58 | 1.71 | 1.22 | 3.2 |

## F19 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:28:19

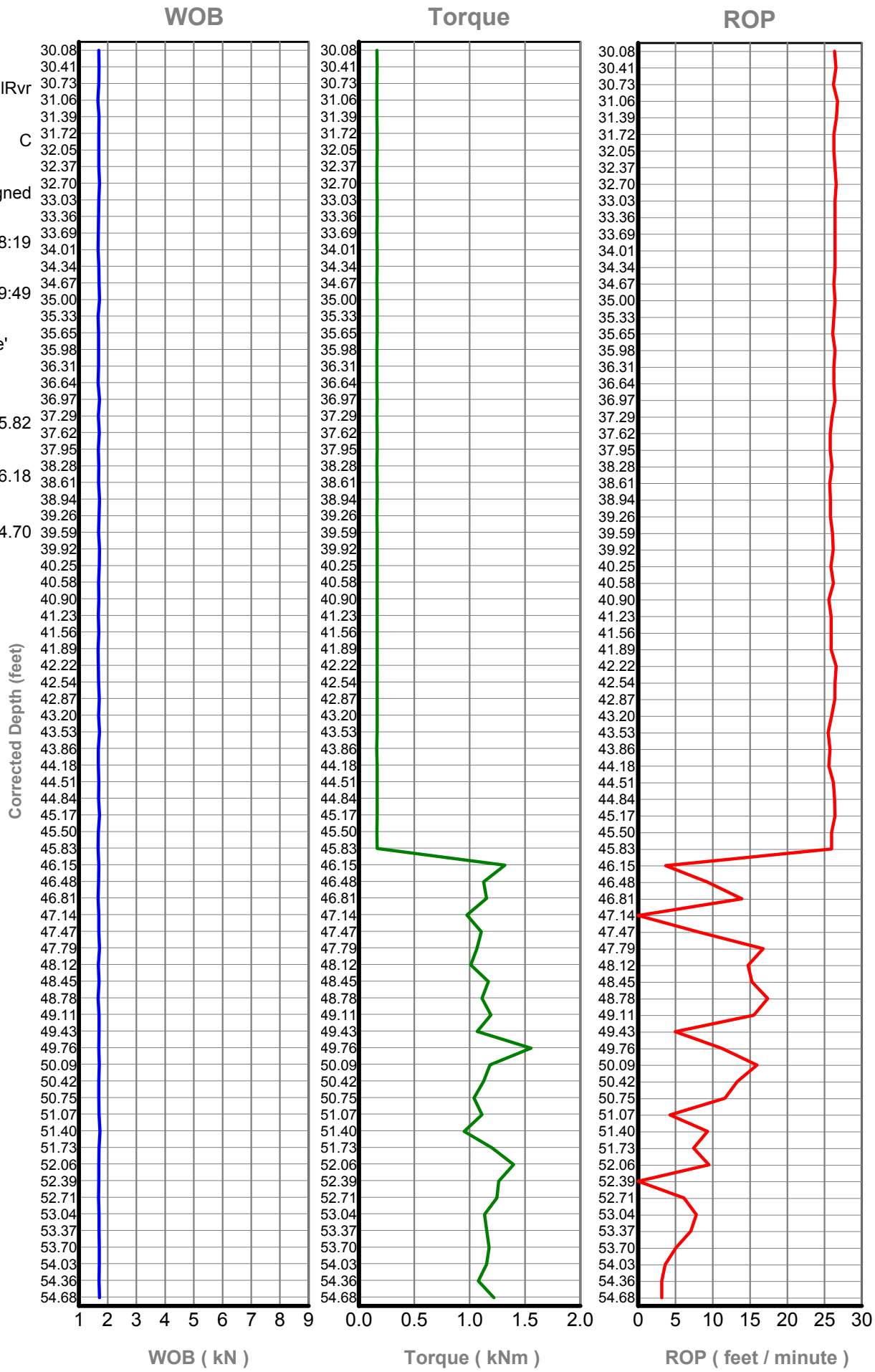
**End Date:**
4/23/2015 2:39:49

**Operator Note:**
'4.7 4.4 c Auto Complete'

**Northing:**
367,705.82

**Easting:**
251,826.18

**Tide (feet):**
4.70



## Hole: F2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:10:23 | 34.12 | 30.02 | 734 | 0.24 | 0.34 | 40.1 |
| 4/23/2015 2:10:24 | 34.45 | 30.35 | 760 | 0.24 | 0.34 | 41.6 |
| 4/23/2015 2:10:24 | 34.78 | 30.68 | 746 | 0.24 | 0.34 | 40.8 |
| 4/23/2015 2:10:25 | 35.11 | 31.01 | 751 | 0.24 | 0.35 | 41.0 |
| 4/23/2015 2:10:25 | 35.43 | 31.33 | 737 | 0.24 | 0.35 | 40.3 |
| 4/23/2015 2:10:26 | 35.76 | 31.66 | 758 | 0.24 | 0.34 | 41.5 |
| 4/23/2015 2:10:26 | 36.09 | 31.99 | 758 | 0.24 | 0.34 | 41.5 |
| 4/23/2015 2:10:26 | 36.42 | 32.32 | 757 | 0.24 | 0.34 | 41.4 |
| 4/23/2015 2:10:27 | 36.75 | 32.65 | 743 | 0.24 | 0.34 | 40.6 |
| 4/23/2015 2:10:27 | 37.07 | 32.97 | 743 | 0.24 | 0.34 | 40.6 |
| 4/23/2015 2:10:28 | 37.40 | 33.30 | 754 | 0.24 | 0.34 | 41.2 |
| 4/23/2015 2:10:29 | 37.73 | 33.63 | 776 | 0.24 | 0.34 | 42.5 |
| 4/23/2015 2:10:29 | 38.06 | 33.96 | 776 | 0.24 | 0.34 | 42.4 |
| 4/23/2015 2:10:30 | 38.39 | 34.29 | 769 | 0.24 | 0.34 | 42.1 |
| 4/23/2015 2:10:30 | 38.71 | 34.61 | 769 | 0.24 | 0.34 | 42.1 |
| 4/23/2015 2:10:30 | 39.04 | 34.94 | 796 | 0.24 | 0.34 | 43.5 |
| 4/23/2015 2:10:31 | 39.37 | 35.27 | 783 | 0.24 | 0.34 | 42.8 |
| 4/23/2015 2:10:31 | 39.70 | 35.60 | 780 | 0.24 | 0.34 | 42.7 |
| 4/23/2015 2:10:32 | 40.03 | 35.93 | 783 | 0.24 | 0.34 | 42.8 |
| 4/23/2015 2:10:32 | 40.35 | 36.25 | 783 | 0.17 | 0.36 | 42.8 |
| 4/23/2015 2:11:12 | 40.68 | 36.58 | 82 | 0.24 | 0.35 | 4.5 |
| 4/23/2015 2:11:12 | 41.01 | 36.91 | 211 | 0.29 | 0.35 | 11.5 |
| 4/23/2015 2:11:13 | 41.34 | 37.24 | 349 | 0.24 | 0.35 | 19.1 |
| 4/23/2015 2:11:13 | 41.67 | 37.57 | 489 | 0.24 | 0.35 | 26.7 |
| 4/23/2015 2:11:14 | 41.99 | 37.89 | 635 | 0.24 | 0.35 | 34.7 |
| 4/23/2015 2:11:14 | 42.32 | 38.22 | 635 | 0.24 | 0.35 | 34.7 |
| 4/23/2015 2:11:14 | 42.65 | 38.55 | 700 | 0.25 | 0.35 | 38.3 |
| 4/23/2015 2:11:15 | 42.98 | 38.88 | 714 | 0.25 | 0.35 | 39.0 |
| 4/23/2015 2:11:15 | 43.31 | 39.21 | 721 | 0.24 | 0.35 | 39.4 |
| 4/23/2015 2:11:16 | 43.64 | 39.54 | 731 | 0.24 | 0.35 | 40.0 |
| 4/23/2015 2:11:16 | 43.96 | 39.86 | 731 | 0.24 | 0.35 | 40.0 |
| 4/23/2015 2:11:17 | 44.29 | 40.19 | 734 | 0.24 | 0.35 | 40.2 |
| 4/23/2015 2:11:17 | 44.62 | 40.52 | 737 | 0.25 | 0.34 | 40.3 |
| 4/23/2015 2:11:18 | 44.95 | 40.85 | 740 | 0.24 | 0.34 | 40.5 |
| 4/23/2015 2:11:18 | 45.28 | 41.18 | 725 | 0.24 | 0.35 | 39.6 |
| 4/23/2015 2:11:19 | 45.60 | 41.50 | 725 | 0.24 | 0.35 | 39.6 |
| 4/23/2015 2:11:19 | 45.93 | 41.83 | 727 | 0.24 | 0.34 | 39.8 |
| 4/23/2015 2:11:20 | 46.26 | 42.16 | 727 | 0.24 | 0.34 | 39.8 |
| 4/23/2015 2:11:21 | 46.59 | 42.49 | 730 | 0.24 | 0.35 | 39.9 |
| 4/23/2015 2:11:21 | 46.92 | 42.82 | 731 | 0.24 | 0.35 | 40.0 |
| 4/23/2015 2:11:22 | 47.24 | 43.14 | 731 | 0.24 | 0.35 | 40.0 |
| 4/23/2015 2:11:22 | 47.57 | 43.47 | 745 | 0.24 | 0.34 | 40.7 |
| 4/23/2015 2:11:22 | 47.90 | 43.80 | 747 | 0.24 | 0.34 | 40.9 |
| 4/23/2015 2:11:23 | 48.23 | 44.13 | 740 | 0.24 | 0.35 | 40.5 |
| 4/23/2015 2:11:23 | 48.56 | 44.46 | 737 | 0.24 | 0.35 | 40.3 |
| 4/23/2015 2:11:24 | 48.88 | 44.78 | 733 | 0.24 | 0.35 | 40.1 |
| 4/23/2015 2:11:24 | 49.21 | 45.11 | 737 | 0.24 | 0.34 | 40.3 |
| 4/23/2015 2:11:25 | 49.54 | 45.44 | 736 | 0.24 | 0.35 | 40.2 |
| 4/23/2015 2:11:25 | 49.87 | 45.77 | 740 | 0.24 | 0.34 | 40.5 |
| 4/23/2015 2:11:26 | 50.20 | 46.10 | 733 | 0.24 | 0.34 | 40.1 |
| 4/23/2015 2:11:26 | 50.53 | 46.43 | 733 | 0.24 | 0.34 | 40.1 |
| 4/23/2015 2:11:27 | 50.85 | 46.75 | 735 | 0.24 | 0.36 | 40.2 |
| 4/23/2015 2:11:27 | 51.18 | 47.08 | 735 | 0.22 | 0.39 | 40.2 |
| 4/23/2015 2:11:55 | 51.51 | 47.41 | 55 | 4.34 | 0.39 | 3.0 |
| 4/23/2015 2:11:57 | 51.84 | 47.74 | 156 | 5.35 | 0.38 | 8.5 |
| 4/23/2015 2:12:13 | 52.17 | 48.07 | 1 | 2.72 | 0.29 | 0.1 |
| 4/23/2015 2:12:14 | 52.49 | 48.39 | 112 | 4.91 | 0.38 | 6.1 |
| 4/23/2015 2:12:16 | 52.82 | 48.72 | 219 | 3.94 | 0.39 | 12.0 |
| 4/23/2015 2:12:20 | 53.15 | 49.05 | 68 | 4.07 | 0.36 | 3.7 |
| 4/23/2015 2:12:20 | 53.48 | 49.38 | 68 | 3.76 | 0.37 | 3.7 |
| 4/23/2015 2:12:21 | 53.81 | 49.71 | 129 | 3.52 | 0.37 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:12:25 | 54.13 | 50.03 | 29 | 2.59 | 0.35 | 1.6 |
| 4/23/2015 | 2:12:26 | 54.46 | 50.36 | 90 | 3.24 | 0.36 | 4.9 |
| 4/23/2015 | 2:12:27 | 54.79 | 50.69 | 177 | 6.30 | 0.40 | 9.7 |
| 4/23/2015 | 2:12:29 | 55.12 | 51.02 | 237 | 3.99 | 0.38 | 13.0 |
| 4/23/2015 | 2:12:30 | 55.45 | 51.35 | 279 | 3.51 | 0.37 | 15.2 |
| 4/23/2015 | 2:12:31 | 55.77 | 51.67 | 279 | 3.03 | 0.37 | 15.2 |
| 4/23/2015 | 2:12:32 | 56.10 | 52.00 | 329 | 2.92 | 0.36 | 18.0 |
| 4/23/2015 | 2:12:33 | 56.43 | 52.33 | 329 | 2.98 | 0.36 | 18.0 |
| 4/23/2015 | 2:12:33 | 56.76 | 52.66 | 411 | 2.97 | 0.37 | 22.5 |
| 4/23/2015 | 2:12:34 | 57.09 | 52.99 | 475 | 3.17 | 0.37 | 25.9 |
| 4/23/2015 | 2:12:35 | 57.41 | 53.31 | 475 | 2.88 | 0.37 | 25.9 |
| 4/23/2015 | 2:12:36 | 57.74 | 53.64 | 495 | 3.71 | 0.38 | 27.1 |
| 4/23/2015 | 2:12:37 | 58.07 | 53.97 | 468 | 5.80 | 0.39 | 25.6 |
| 4/23/2015 | 2:12:38 | 58.40 | 54.30 | 292 | 3.97 | 0.39 | 16.0 |
| 4/23/2015 | 2:12:40 | 58.73 | 54.63 | 233 | 3.56 | 0.38 | 12.7 |
| 4/23/2015 | 2:12:41 | 59.03 | 54.93 | 274 | 4.89 | 0.41 | 15.0 |

## F2 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:07:58

**End Date:**
4/23/2015 2:15:06

**Operator Note:**
'4.1 3.9 b Auto Complete'

**Northing:**
367,682.16

**Easting:**
251,668.02

**Tide (feet):**
4.10



## Hole: F20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:06:48 | 31.17 | 30.27 | 984 | 0.20 | 0.32 | 53.8 |
| 4/23/2015 0:06:49 | 31.50 | 30.60 | 984 | 0.20 | 0.32 | 53.8 |
| 4/23/2015 0:06:49 | 31.82 | 30.92 | 963 | 0.20 | 0.32 | 52.7 |
| 4/23/2015 0:06:49 | 32.15 | 31.25 | 963 | 0.19 | 0.33 | 52.7 |
| 4/23/2015 0:06:50 | 32.48 | 31.58 | 966 | 0.19 | 0.32 | 52.9 |
| 4/23/2015 0:06:51 | 32.81 | 31.91 | 966 | 0.19 | 0.32 | 52.9 |
| 4/23/2015 0:06:51 | 33.14 | 32.24 | 969 | 0.19 | 0.32 | 53.0 |
| 4/23/2015 0:06:51 | 33.46 | 32.56 | 964 | 0.19 | 0.32 | 52.7 |
| 4/23/2015 0:06:52 | 33.79 | 32.89 | 964 | 0.19 | 0.32 | 52.7 |
| 4/23/2015 0:06:52 | 34.12 | 33.22 | 964 | 0.19 | 0.32 | 52.7 |
| 4/23/2015 0:06:52 | 34.45 | 33.55 | 967 | 0.19 | 0.33 | 52.9 |
| 4/23/2015 0:06:53 | 34.78 | 33.88 | 967 | 0.19 | 0.33 | 52.9 |
| 4/23/2015 0:06:53 | 35.11 | 34.21 | 972 | 0.19 | 0.32 | 53.2 |
| 4/23/2015 0:06:53 | 35.43 | 34.53 | 963 | 0.19 | 0.32 | 52.7 |
| 4/23/2015 0:06:54 | 35.76 | 34.86 | 940 | 0.19 | 0.32 | 51.4 |
| 4/23/2015 0:06:54 | 36.09 | 35.19 | 940 | 0.19 | 0.32 | 51.4 |
| 4/23/2015 0:06:54 | 36.42 | 35.52 | 940 | 0.19 | 0.32 | 51.4 |
| 4/23/2015 0:06:55 | 36.75 | 35.85 | 950 | 0.19 | 0.32 | 51.9 |
| 4/23/2015 0:06:55 | 37.07 | 36.17 | 950 | 0.19 | 0.32 | 51.9 |
| 4/23/2015 0:06:55 | 37.40 | 36.50 | 953 | 0.19 | 0.32 | 52.1 |
| 4/23/2015 0:06:56 | 37.73 | 36.83 | 962 | 0.19 | 0.33 | 52.6 |
| 4/23/2015 0:06:56 | 38.06 | 37.16 | 962 | 0.19 | 0.33 | 52.6 |
| 4/23/2015 0:06:56 | 38.39 | 37.49 | 970 | 0.20 | 0.32 | 53.1 |
| 4/23/2015 0:06:57 | 38.71 | 37.81 | 970 | 0.19 | 0.32 | 53.1 |
| 4/23/2015 0:06:57 | 39.04 | 38.14 | 996 | 0.19 | 0.32 | 54.5 |
| 4/23/2015 0:06:58 | 39.37 | 38.47 | 996 | 0.19 | 0.32 | 54.5 |
| 4/23/2015 0:06:58 | 39.70 | 38.80 | 996 | 0.20 | 0.32 | 54.5 |
| 4/23/2015 0:06:58 | 40.03 | 39.13 | 1,005 | 0.19 | 0.32 | 55.0 |
| 4/23/2015 0:06:59 | 40.35 | 39.45 | 1,005 | 0.19 | 0.32 | 55.0 |
| 4/23/2015 0:06:59 | 40.68 | 39.78 | 996 | 0.19 | 0.32 | 54.5 |
| 4/23/2015 0:06:59 | 41.01 | 40.11 | 993 | 0.20 | 0.32 | 54.3 |
| 4/23/2015 0:07:00 | 41.34 | 40.44 | 982 | 0.19 | 0.33 | 53.7 |
| 4/23/2015 0:07:01 | 41.67 | 40.77 | 982 | 0.19 | 0.33 | 53.7 |
| 4/23/2015 0:07:01 | 41.99 | 41.09 | 970 | 0.19 | 0.32 | 53.1 |
| 4/23/2015 0:07:01 | 42.32 | 41.42 | 969 | 0.19 | 0.32 | 53.0 |
| 4/23/2015 0:07:02 | 42.65 | 41.75 | 969 | 0.19 | 0.32 | 53.0 |
| 4/23/2015 0:07:02 | 42.98 | 42.08 | 963 | 0.20 | 0.32 | 52.7 |
| 4/23/2015 0:07:02 | 43.31 | 42.41 | 952 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:07:03 | 43.64 | 42.74 | 952 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:07:03 | 43.96 | 43.06 | 952 | 0.19 | 0.32 | 52.0 |
| 4/23/2015 0:07:03 | 44.29 | 43.39 | 972 | 0.23 | 0.32 | 53.1 |
| 4/23/2015 0:07:04 | 44.62 | 43.72 | 977 | 0.20 | 0.33 | 53.4 |
| 4/23/2015 0:07:04 | 44.95 | 44.05 | 977 | 0.20 | 0.33 | 53.4 |
| 4/23/2015 0:07:04 | 45.28 | 44.38 | 950 | 0.19 | 0.33 | 52.0 |
| 4/23/2015 0:07:05 | 45.60 | 44.70 | 950 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:07:05 | 45.93 | 45.03 | 950 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:07:05 | 46.26 | 45.36 | 965 | 0.19 | 0.32 | 52.8 |
| 4/23/2015 0:07:06 | 46.59 | 45.69 | 979 | 0.18 | 0.36 | 53.5 |
| 4/23/2015 0:07:24 | 46.92 | 46.02 | 0 | 4.40 | 0.39 | 0.0 |
| 4/23/2015 0:07:26 | 47.24 | 46.34 | 172 | 4.11 | 0.38 | 9.4 |
| 4/23/2015 0:07:29 | 47.57 | 46.67 | 119 | 4.74 | 0.38 | 6.5 |
| 4/23/2015 0:07:32 | 47.90 | 47.00 | 121 | 3.93 | 0.38 | 6.6 |
| 4/23/2015 0:07:33 | 48.23 | 47.33 | 149 | 3.78 | 0.38 | 8.2 |
| 4/23/2015 0:07:35 | 48.56 | 47.66 | 253 | 3.75 | 0.38 | 13.8 |
| 4/23/2015 0:07:38 | 48.88 | 47.98 | 43 | 3.16 | 0.38 | 2.3 |
| 4/23/2015 0:07:39 | 49.21 | 48.31 | 207 | 3.35 | 0.39 | 11.3 |
| 4/23/2015 0:07:42 | 49.54 | 48.64 | 156 | 3.25 | 0.38 | 8.5 |
| 4/23/2015 0:07:43 | 49.87 | 48.97 | 177 | 2.69 | 0.38 | 9.7 |
| 4/23/2015 0:07:45 | 50.20 | 49.30 | 225 | 3.83 | 0.38 | 12.3 |
| 4/23/2015 0:07:47 | 50.53 | 49.63 | 213 | 3.07 | 0.38 | 11.7 |
| 4/23/2015 0:07:49 | 50.85 | 49.95 | 198 | 6.43 | 0.41 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:08:01 | 51.18 | 50.28 | 82 | 3.63 | 0.39 | 4.5 |
| 4/23/2015 | 0:08:04 | 51.51 | 50.61 | 143 | 4.69 | 0.40 | 7.8 |
| 4/23/2015 | 0:08:08 | 51.84 | 50.94 | 67 | 4.36 | 0.40 | 3.7 |
| 4/23/2015 | 0:08:15 | 52.17 | 51.27 | 64 | 3.76 | 0.40 | 3.5 |
| 4/23/2015 | 0:08:18 | 52.49 | 51.59 | 83 | 3.41 | 0.40 | 4.6 |
| 4/23/2015 | 0:08:23 | 52.82 | 51.92 | 81 | 3.62 | 0.40 | 4.4 |
| 4/23/2015 | 0:08:27 | 53.15 | 52.25 | 94 | 3.24 | 0.40 | 5.2 |
| 4/23/2015 | 0:08:31 | 53.48 | 52.58 | 80 | 3.48 | 0.40 | 4.4 |
| 4/23/2015 | 0:08:36 | 53.81 | 52.91 | 77 | 3.21 | 0.40 | 4.2 |
| 4/23/2015 | 0:08:41 | 54.13 | 53.23 | 67 | 3.95 | 0.40 | 3.7 |
| 4/23/2015 | 0:08:47 | 54.46 | 53.56 | 62 | 3.26 | 0.40 | 3.4 |
| 4/23/2015 | 0:08:52 | 54.79 | 53.89 | 66 | 3.77 | 0.40 | 3.6 |
| 4/23/2015 | 0:09:17 | 55.07 | 54.17 | 0 | 4.68 | 0.39 | 0.0 |

## F20 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:03:29

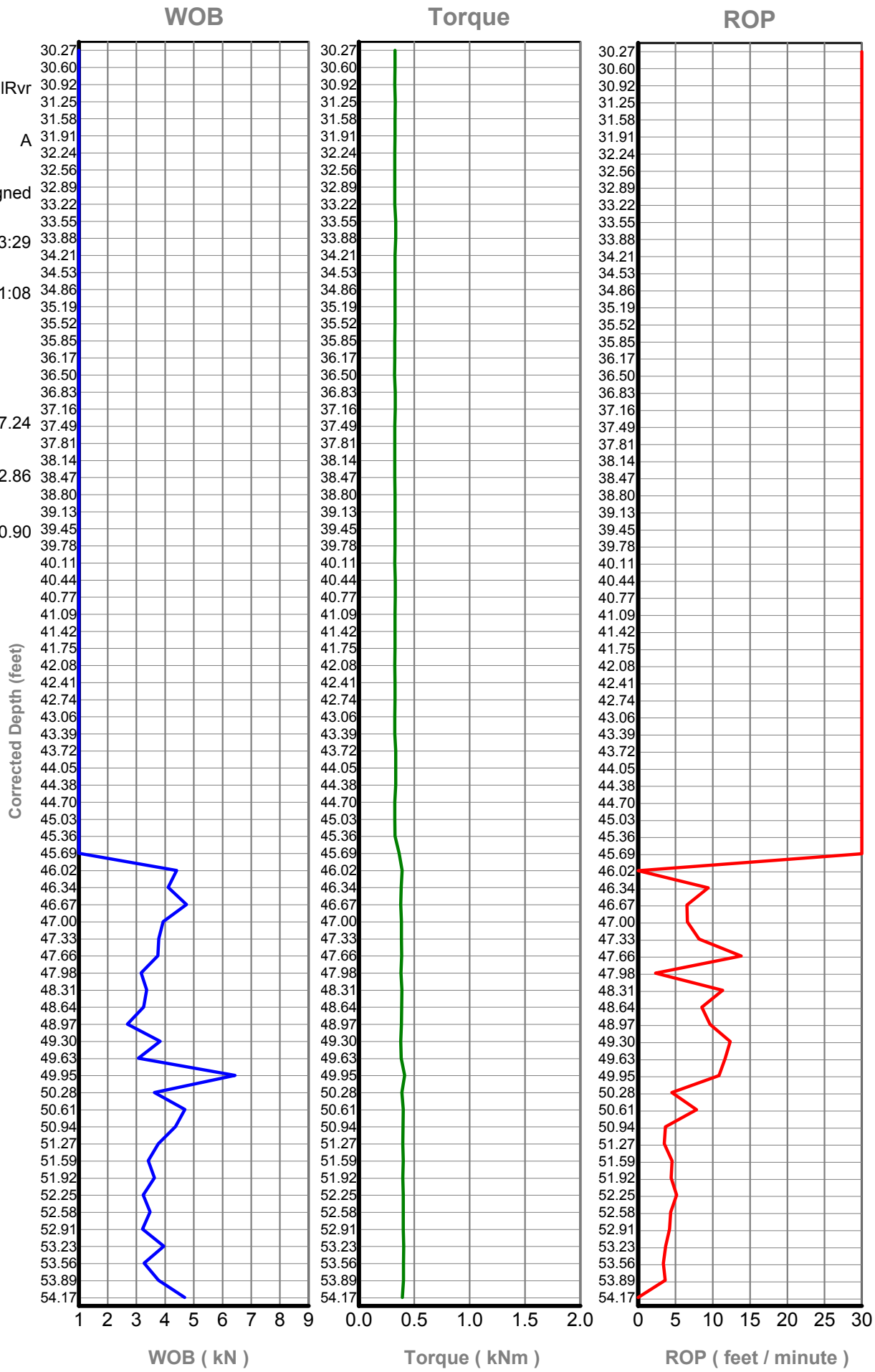
**End Date:**
4/23/2015 0:11:08

**Operator Note:**
'0.9 .8 b Auto Complete'

**Northing:**
367,767.24

**Easting:**
251,882.86

**Tide (feet):**
0.90



## Hole: F21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:14:56 | 31.17 | 30.17 | 981 | 0.81 | 0.32 | 53.6 |
| 4/23/2015 0:14:56 | 31.50 | 30.50 | 981 | 0.80 | 0.32 | 53.6 |
| 4/23/2015 0:14:57 | 31.82 | 30.82 | 984 | 0.80 | 0.32 | 53.8 |
| 4/23/2015 0:14:57 | 32.15 | 31.15 | 984 | 0.80 | 0.32 | 53.8 |
| 4/23/2015 0:14:57 | 32.48 | 31.48 | 987 | 0.79 | 0.32 | 53.9 |
| 4/23/2015 0:14:58 | 32.81 | 31.81 | 995 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 0:14:58 | 33.14 | 32.14 | 989 | 0.37 | 0.32 | 54.1 |
| 4/23/2015 0:14:59 | 33.46 | 32.46 | 989 | 0.37 | 0.32 | 54.1 |
| 4/23/2015 0:14:59 | 33.79 | 32.79 | 986 | 0.31 | 0.32 | 53.9 |
| 4/23/2015 0:15:00 | 34.12 | 33.12 | 980 | 0.30 | 0.33 | 53.6 |
| 4/23/2015 0:15:00 | 34.45 | 33.45 | 980 | 0.30 | 0.33 | 53.6 |
| 4/23/2015 0:15:00 | 34.78 | 33.78 | 971 | 0.30 | 0.33 | 53.1 |
| 4/23/2015 0:15:01 | 35.11 | 34.11 | 980 | 0.29 | 0.32 | 53.6 |
| 4/23/2015 0:15:01 | 35.43 | 34.43 | 980 | 0.29 | 0.32 | 53.6 |
| 4/23/2015 0:15:01 | 35.76 | 34.76 | 975 | 0.27 | 0.32 | 53.3 |
| 4/23/2015 0:15:02 | 36.09 | 35.09 | 972 | 0.27 | 0.32 | 53.1 |
| 4/23/2015 0:15:02 | 36.42 | 35.42 | 977 | 0.33 | 0.32 | 53.4 |
| 4/23/2015 0:15:03 | 36.75 | 35.75 | 977 | 0.33 | 0.32 | 53.4 |
| 4/23/2015 0:15:03 | 37.07 | 36.07 | 983 | 0.27 | 0.33 | 53.8 |
| 4/23/2015 0:15:03 | 37.40 | 36.40 | 974 | 0.28 | 0.32 | 53.3 |
| 4/23/2015 0:15:04 | 37.73 | 36.73 | 974 | 0.28 | 0.32 | 53.3 |
| 4/23/2015 0:15:04 | 38.06 | 37.06 | 977 | 0.19 | 0.32 | 53.4 |
| 4/23/2015 0:15:04 | 38.39 | 37.39 | 992 | 0.21 | 0.32 | 54.2 |
| 4/23/2015 0:15:05 | 38.71 | 37.71 | 992 | 0.21 | 0.32 | 54.2 |
| 4/23/2015 0:15:05 | 39.04 | 38.04 | 989 | 0.26 | 0.36 | 54.1 |
| 4/23/2015 0:15:05 | 39.37 | 38.37 | 992 | 0.22 | 0.39 | 54.2 |
| 4/23/2015 0:15:13 | 39.70 | 38.70 | 33 | 0.95 | 0.32 | 1.8 |
| 4/23/2015 0:15:14 | 40.03 | 39.03 | 218 | 0.96 | 0.33 | 11.9 |
| 4/23/2015 0:15:14 | 40.35 | 39.35 | 218 | 0.96 | 0.33 | 11.9 |
| 4/23/2015 0:15:14 | 40.68 | 39.68 | 404 | 1.00 | 0.32 | 22.1 |
| 4/23/2015 0:15:15 | 41.01 | 40.01 | 601 | 1.00 | 0.32 | 32.9 |
| 4/23/2015 0:15:15 | 41.34 | 40.34 | 601 | 1.00 | 0.32 | 32.9 |
| 4/23/2015 0:15:15 | 41.67 | 40.67 | 792 | 1.12 | 0.32 | 43.3 |
| 4/23/2015 0:15:16 | 41.99 | 40.99 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:15:16 | 42.32 | 41.32 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 0:15:16 | 42.65 | 41.65 | 960 | 0.18 | 0.32 | 52.5 |
| 4/23/2015 0:15:17 | 42.98 | 41.98 | 974 | 0.20 | 0.32 | 53.3 |
| 4/23/2015 0:15:17 | 43.31 | 42.31 | 974 | 0.22 | 0.32 | 53.3 |
| 4/23/2015 0:15:18 | 43.64 | 42.64 | 974 | 0.22 | 0.32 | 53.3 |
| 4/23/2015 0:15:18 | 43.96 | 42.96 | 974 | 0.20 | 0.32 | 53.3 |
| 4/23/2015 0:15:18 | 44.29 | 43.29 | 974 | 0.18 | 0.32 | 53.3 |
| 4/23/2015 0:15:19 | 44.62 | 43.62 | 974 | 0.18 | 0.32 | 53.3 |
| 4/23/2015 0:15:19 | 44.95 | 43.95 | 974 | 0.19 | 0.32 | 53.3 |
| 4/23/2015 0:15:19 | 45.28 | 44.28 | 963 | 0.16 | 0.32 | 52.6 |
| 4/23/2015 0:15:20 | 45.60 | 44.60 | 963 | 0.17 | 0.34 | 52.6 |
| 4/23/2015 0:15:21 | 45.93 | 44.93 | 963 | 0.17 | 0.34 | 52.6 |
| 4/23/2015 0:15:48 | 46.26 | 45.26 | 6 | 5.10 | 0.38 | 0.3 |
| 4/23/2015 0:15:50 | 46.59 | 45.59 | 170 | 5.43 | 0.41 | 9.3 |
| 4/23/2015 0:15:56 | 46.92 | 45.92 | 61 | 3.76 | 0.37 | 3.3 |
| 4/23/2015 0:15:57 | 47.24 | 46.24 | 178 | 3.35 | 0.38 | 9.7 |
| 4/23/2015 0:15:59 | 47.57 | 46.57 | 191 | 3.35 | 0.41 | 10.5 |
| 4/23/2015 0:16:06 | 47.90 | 46.90 | 26 | 3.10 | 0.40 | 1.4 |
| 4/23/2015 0:16:11 | 48.23 | 47.23 | 66 | 3.31 | 0.40 | 3.6 |
| 4/23/2015 0:16:15 | 48.56 | 47.56 | 102 | 2.99 | 0.39 | 5.6 |
| 4/23/2015 0:16:18 | 48.88 | 47.88 | 116 | 2.93 | 0.40 | 6.3 |
| 4/23/2015 0:16:21 | 49.21 | 48.21 | 127 | 2.82 | 0.40 | 7.0 |
| 4/23/2015 0:16:23 | 49.54 | 48.54 | 156 | 2.61 | 0.37 | 8.5 |
| 4/23/2015 0:16:24 | 49.87 | 48.87 | 270 | 2.54 | 0.37 | 14.8 |
| 4/23/2015 0:16:24 | 50.20 | 49.20 | 327 | 2.51 | 0.37 | 17.9 |
| 4/23/2015 0:16:25 | 50.53 | 49.53 | 405 | 3.27 | 0.38 | 22.2 |
| 4/23/2015 0:16:30 | 50.85 | 49.85 | 26 | 3.47 | 0.40 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:16:49 | 51.18 | 50.18 | 24 | 4.80 | 0.41 | 1.3 |
| 4/23/2015 | 0:16:51 | 51.51 | 50.51 | 101 | 4.07 | 0.38 | 5.5 |
| 4/23/2015 | 0:16:53 | 51.84 | 50.84 | 201 | 3.83 | 0.37 | 11.0 |
| 4/23/2015 | 0:16:55 | 52.17 | 51.17 | 156 | 3.50 | 0.39 | 8.5 |
| 4/23/2015 | 0:16:59 | 52.49 | 51.49 | 93 | 3.62 | 0.40 | 5.1 |
| 4/23/2015 | 0:17:08 | 52.82 | 51.82 | 23 | 3.61 | 0.40 | 1.2 |
| 4/23/2015 | 0:17:15 | 53.15 | 52.15 | 75 | 3.28 | 0.40 | 4.1 |
| 4/23/2015 | 0:17:20 | 53.48 | 52.48 | 81 | 4.05 | 0.40 | 4.4 |
| 4/23/2015 | 0:17:24 | 53.81 | 52.81 | 86 | 3.92 | 0.40 | 4.7 |
| 4/23/2015 | 0:17:28 | 54.13 | 53.13 | 93 | 3.75 | 0.40 | 5.1 |
| 4/23/2015 | 0:17:31 | 54.46 | 53.46 | 92 | 3.95 | 0.41 | 5.1 |
| 4/23/2015 | 0:17:37 | 54.79 | 53.79 | 62 | 3.22 | 0.39 | 3.4 |
| 4/23/2015 | 0:17:42 | 55.12 | 54.12 | 62 | 3.35 | 0.40 | 3.4 |
| 4/23/2015 | 0:17:48 | 55.45 | 54.45 | 69 | 3.37 | 0.40 | 3.8 |
| 4/23/2015 | 0:17:52 | 55.77 | 54.77 | 75 | 3.51 | 0.40 | 4.1 |
| 4/23/2015 | 0:17:54 | 55.90 | 54.90 | 80 | 3.77 | 0.40 | 4.4 |

## F21 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:12:11

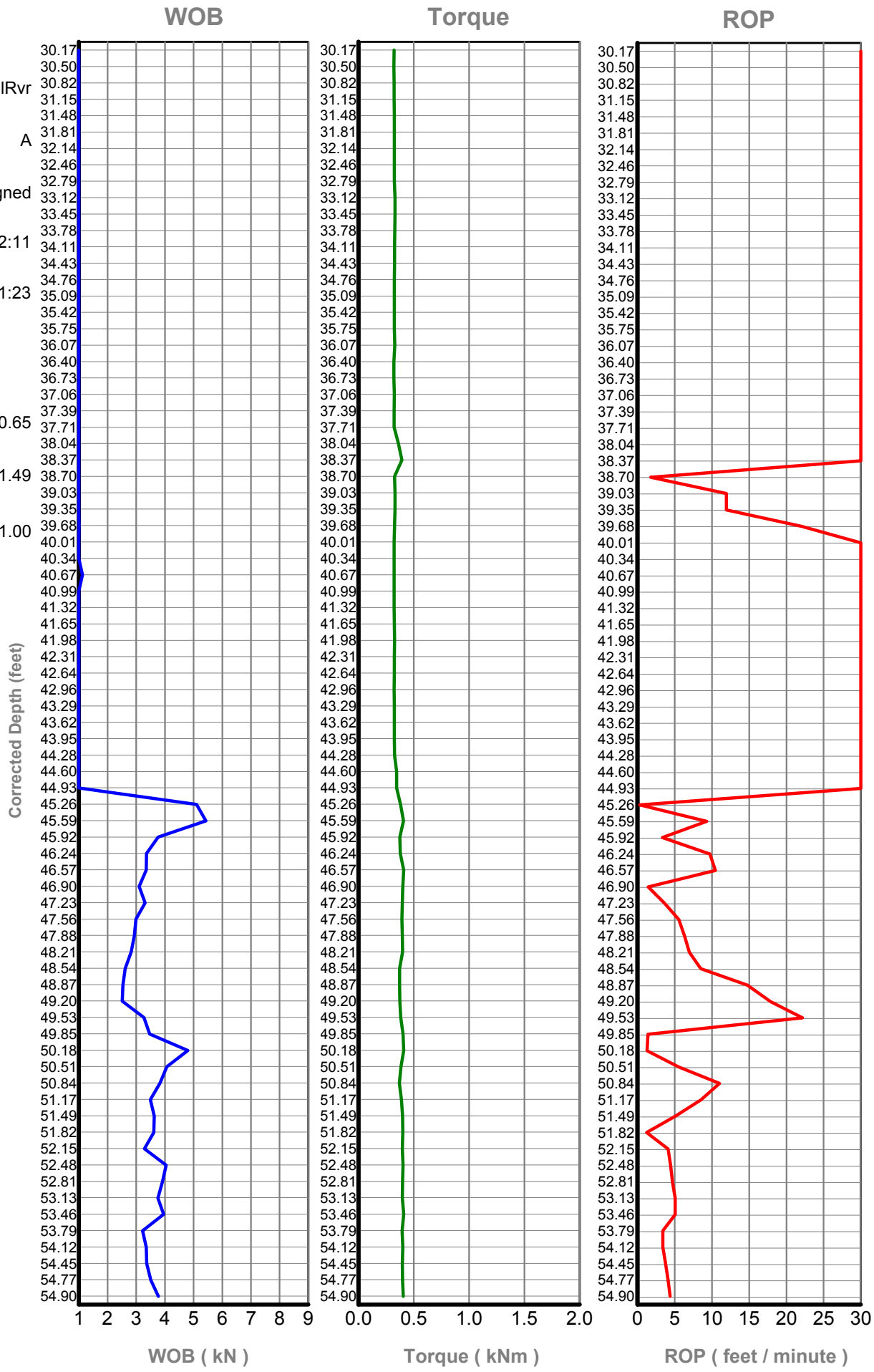
**End Date:**
4/23/2015 0:21:23

**Operator Note:**
'1 .9 b Auto Complete'

**Northing:**
367,800.65

**Easting:**
251,931.49

**Tide (feet):**
1.00



## Hole: F22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:05:53 | 31.17 | 30.27 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 0:05:54 | 31.50 | 30.60 | 396 | 1.69 | 0.16 | 21.7 |
| 4/23/2015 0:05:55 | 31.82 | 30.92 | 396 | 1.69 | 0.17 | 21.7 |
| 4/23/2015 0:05:56 | 32.15 | 31.25 | 396 | 1.70 | 0.16 | 21.7 |
| 4/23/2015 0:05:56 | 32.48 | 31.58 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 0:05:57 | 32.81 | 31.91 | 399 | 1.69 | 0.17 | 21.8 |
| 4/23/2015 0:05:58 | 33.14 | 32.24 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 0:05:59 | 33.46 | 32.56 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 0:06:00 | 33.79 | 32.89 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 0:06:01 | 34.12 | 33.22 | 401 | 1.70 | 0.17 | 21.9 |
| 4/23/2015 0:06:02 | 34.45 | 33.55 | 392 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 0:06:03 | 34.78 | 33.88 | 395 | 1.70 | 0.16 | 21.6 |
| 4/23/2015 0:06:04 | 35.11 | 34.21 | 398 | 1.70 | 0.16 | 21.7 |
| 4/23/2015 0:06:05 | 35.43 | 34.53 | 395 | 1.70 | 0.17 | 21.6 |
| 4/23/2015 0:06:06 | 35.76 | 34.86 | 398 | 1.70 | 0.16 | 21.8 |
| 4/23/2015 0:06:06 | 36.09 | 35.19 | 393 | 1.69 | 0.17 | 21.5 |
| 4/23/2015 0:06:07 | 36.42 | 35.52 | 399 | 1.68 | 0.16 | 21.8 |
| 4/23/2015 0:06:08 | 36.75 | 35.85 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 0:06:09 | 37.07 | 36.17 | 399 | 1.70 | 0.16 | 21.8 |
| 4/23/2015 0:06:10 | 37.40 | 36.50 | 396 | 1.70 | 0.17 | 21.7 |
| 4/23/2015 0:06:11 | 37.73 | 36.83 | 396 | 1.69 | 0.17 | 21.7 |
| 4/23/2015 0:06:12 | 38.06 | 37.16 | 399 | 1.69 | 0.17 | 21.8 |
| 4/23/2015 0:06:13 | 38.39 | 37.49 | 399 | 1.70 | 0.16 | 21.8 |
| 4/23/2015 0:06:14 | 38.71 | 37.81 | 399 | 1.69 | 0.17 | 21.8 |
| 4/23/2015 0:06:15 | 39.04 | 38.14 | 396 | 1.68 | 0.16 | 21.7 |
| 4/23/2015 0:06:16 | 39.37 | 38.47 | 396 | 1.68 | 0.17 | 21.7 |
| 4/23/2015 0:06:16 | 39.70 | 38.80 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 0:06:17 | 40.03 | 39.13 | 397 | 1.69 | 0.17 | 21.7 |
| 4/23/2015 0:06:18 | 40.35 | 39.45 | 399 | 1.69 | 0.17 | 21.8 |
| 4/23/2015 0:06:19 | 40.68 | 39.78 | 396 | 1.68 | 0.17 | 21.7 |
| 4/23/2015 0:06:20 | 41.01 | 40.11 | 396 | 1.69 | 0.17 | 21.7 |
| 4/23/2015 0:06:21 | 41.34 | 40.44 | 396 | 1.68 | 0.17 | 21.7 |
| 4/23/2015 0:06:22 | 41.67 | 40.77 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 0:06:23 | 41.99 | 41.09 | 396 | 1.70 | 0.17 | 21.7 |
| 4/23/2015 0:06:24 | 42.32 | 41.42 | 396 | 1.69 | 0.17 | 21.7 |
| 4/23/2015 0:06:25 | 42.65 | 41.75 | 396 | 1.68 | 0.16 | 21.7 |
| 4/23/2015 0:06:26 | 42.98 | 42.08 | 391 | 1.69 | 0.17 | 21.4 |
| 4/23/2015 0:06:26 | 43.31 | 42.41 | 396 | 1.69 | 0.16 | 21.7 |
| 4/23/2015 0:06:27 | 43.64 | 42.74 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 0:06:28 | 43.96 | 43.06 | 398 | 1.69 | 0.16 | 21.8 |
| 4/23/2015 0:06:29 | 44.29 | 43.39 | 385 | 1.69 | 0.17 | 21.1 |
| 4/23/2015 0:06:30 | 44.62 | 43.72 | 389 | 1.69 | 0.16 | 21.3 |
| 4/23/2015 0:06:31 | 44.95 | 44.05 | 397 | 1.68 | 0.17 | 21.7 |
| 4/23/2015 0:06:32 | 45.28 | 44.38 | 383 | 1.69 | 0.16 | 21.0 |
| 4/23/2015 0:06:33 | 45.60 | 44.70 | 393 | 1.72 | 0.17 | 21.5 |
| 4/23/2015 0:06:34 | 45.93 | 45.03 | 390 | 1.81 | 0.16 | 21.3 |
| 4/23/2015 0:06:35 | 46.26 | 45.36 | 399 | 1.69 | 0.17 | 21.8 |
| 4/23/2015 0:06:36 | 46.59 | 45.69 | 396 | 1.68 | 0.17 | 21.7 |
| 4/23/2015 0:06:37 | 46.92 | 46.02 | 401 | 1.68 | 0.17 | 22.0 |
| 4/23/2015 0:06:37 | 47.24 | 46.34 | 396 | 1.70 | 0.16 | 21.7 |
| 4/23/2015 0:06:38 | 47.57 | 46.67 | 393 | 1.68 | 0.17 | 21.5 |
| 4/23/2015 0:07:21 | 47.90 | 47.00 | 0 | 1.71 | 1.07 | 0.0 |
| 4/23/2015 0:07:28 | 48.23 | 47.33 | 29 | 1.53 | 1.04 | 1.6 |
| 4/23/2015 0:07:34 | 48.56 | 47.66 | 115 | 1.69 | 1.13 | 6.3 |
| 4/23/2015 0:07:48 | 48.88 | 47.98 | 0 | 1.72 | 1.10 | 0.0 |
| 4/23/2015 0:07:49 | 49.21 | 48.31 | 132 | 1.71 | 1.07 | 7.2 |
| 4/23/2015 0:07:58 | 49.54 | 48.64 | 76 | 1.70 | 1.14 | 4.2 |
| 4/23/2015 0:09:18 | 49.87 | 48.97 | 0 | 1.68 | 1.05 | 0.0 |
| 4/23/2015 0:09:20 | 50.20 | 49.30 | 121 | 1.68 | 1.14 | 6.6 |
| 4/23/2015 0:09:22 | 50.53 | 49.63 | 167 | 1.70 | 1.11 | 9.1 |
| 4/23/2015 0:10:00 | 50.85 | 49.95 | 11 | 1.69 | 1.11 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:10:11 | 51.18 | 50.28 | 11 | 1.68 | 1.07 | 0.6 |
| 4/23/2015 | 0:10:14 | 51.51 | 50.61 | 159 | 1.69 | 1.16 | 8.7 |
| 4/23/2015 | 0:10:17 | 51.84 | 50.94 | 123 | 1.69 | 1.12 | 6.7 |
| 4/23/2015 | 0:10:19 | 52.17 | 51.27 | 122 | 1.69 | 1.15 | 6.7 |
| 4/23/2015 | 0:10:23 | 52.49 | 51.59 | 127 | 1.70 | 1.15 | 6.9 |
| 4/23/2015 | 0:10:25 | 52.82 | 51.92 | 144 | 1.70 | 1.18 | 7.9 |
| 4/23/2015 | 0:10:28 | 53.15 | 52.25 | 127 | 1.71 | 1.13 | 7.0 |
| 4/23/2015 | 0:10:31 | 53.48 | 52.58 | 113 | 1.70 | 1.10 | 6.2 |
| 4/23/2015 | 0:10:34 | 53.81 | 52.91 | 119 | 1.70 | 1.12 | 6.5 |
| 4/23/2015 | 0:10:37 | 54.13 | 53.23 | 133 | 1.70 | 1.14 | 7.3 |
| 4/23/2015 | 0:10:40 | 54.46 | 53.56 | 118 | 1.69 | 1.11 | 6.5 |
| 4/23/2015 | 0:10:43 | 54.79 | 53.89 | 106 | 1.70 | 1.13 | 5.8 |
| 4/23/2015 | 0:10:47 | 55.12 | 54.22 | 101 | 1.68 | 1.16 | 5.5 |
| 4/23/2015 | 0:10:51 | 55.45 | 54.55 | 72 | 1.69 | 1.13 | 3.9 |
| 4/23/2015 | 0:10:57 | 55.77 | 54.87 | 72 | 1.73 | 1.08 | 3.9 |
| 4/23/2015 | 0:10:57 | 55.82 | 54.92 | 72 | 1.71 | 1.15 | 4.0 |

## F22 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:03:29

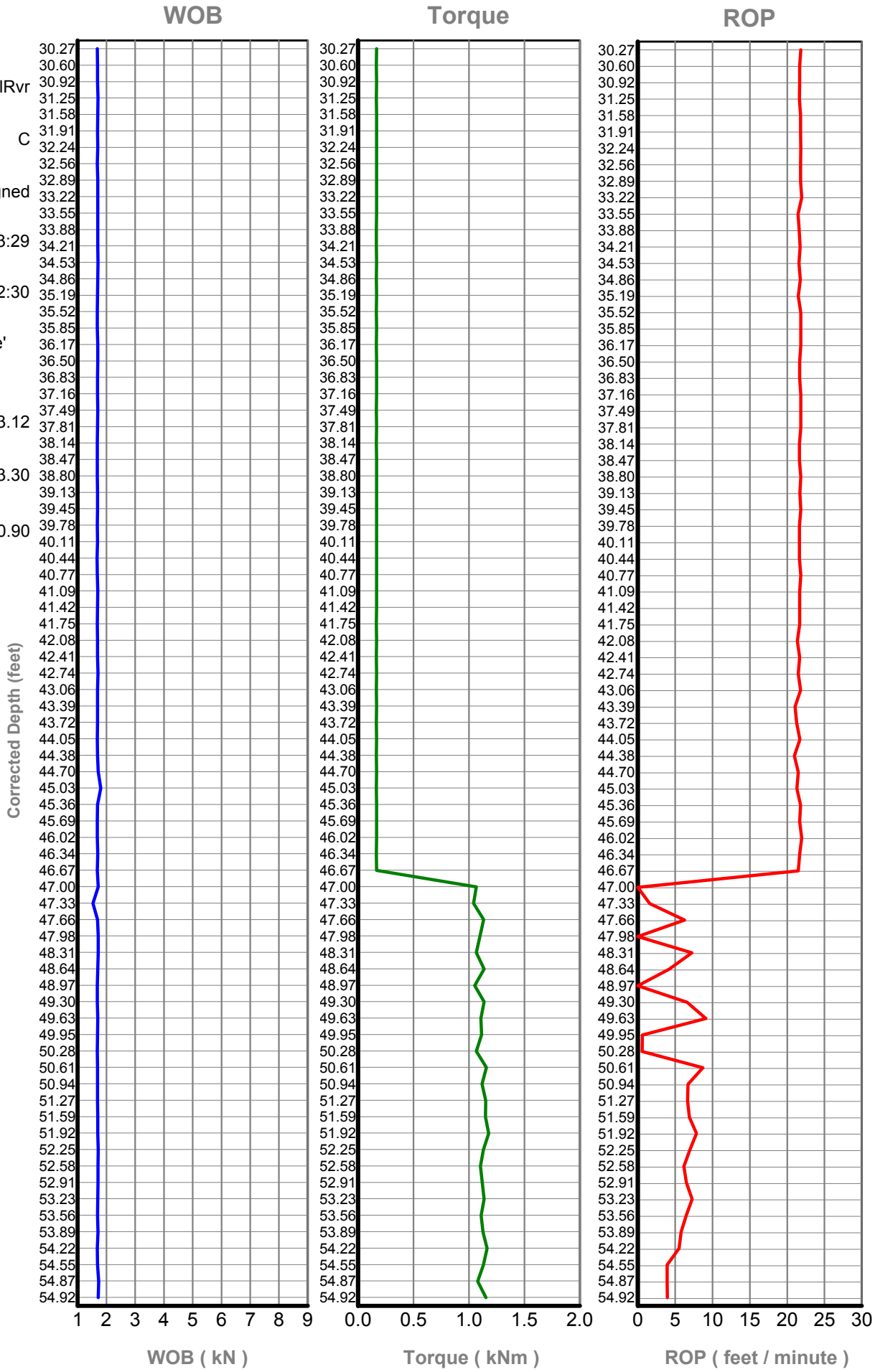
**End Date:**
4/23/2015 0:12:30

**Operator Note:**
'0.9 0.8 c Auto Complete'

**Northing:**
367,843.12

**Easting:**
251,993.30

**Tide (feet):**
0.90



## Hole: F23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:51:31 | 31.50 | 30.30 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 11:51:31 | 31.82 | 30.62 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:32 | 32.15 | 30.95 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:32 | 32.48 | 31.28 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 11:51:32 | 32.81 | 31.61 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:32 | 33.14 | 31.94 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:33 | 33.46 | 32.26 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:33 | 33.79 | 32.59 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:34 | 34.12 | 32.92 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:34 | 34.45 | 33.25 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:34 | 34.78 | 33.58 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:34 | 35.11 | 33.91 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:35 | 35.43 | 34.23 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:51:35 | 35.76 | 34.56 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:51:35 | 36.09 | 34.89 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:36 | 36.42 | 35.22 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:36 | 36.75 | 35.55 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:36 | 37.07 | 35.87 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:51:37 | 37.40 | 36.20 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:51:37 | 37.73 | 36.53 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:51:37 | 38.06 | 36.86 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:38 | 38.39 | 37.19 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:38 | 38.71 | 37.51 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:38 | 39.04 | 37.84 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:51:39 | 39.37 | 38.17 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:40 | 39.70 | 38.50 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:40 | 40.03 | 38.83 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:51:40 | 40.35 | 39.15 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:51:41 | 40.68 | 39.48 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:51:41 | 41.01 | 39.81 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:41 | 41.34 | 40.14 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:51:42 | 41.67 | 40.47 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:51:42 | 41.99 | 40.79 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:42 | 42.32 | 41.12 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:51:43 | 42.65 | 41.45 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:51:43 | 42.98 | 41.78 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:51:43 | 43.31 | 42.11 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:44 | 43.64 | 42.44 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:51:44 | 43.96 | 42.76 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 11:51:44 | 44.29 | 43.09 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 11:51:45 | 44.62 | 43.42 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 11:51:45 | 44.95 | 43.75 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 11:51:45 | 45.28 | 44.08 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:51:46 | 45.60 | 44.40 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:51:46 | 45.93 | 44.73 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 11:52:00 | 46.26 | 45.06 | 20 | 1.66 | 1.29 | 1.1 |
| 4/22/2015 11:52:01 | 46.59 | 45.39 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 11:52:01 | 46.92 | 45.72 | 284 | 1.66 | 1.29 | 15.5 |
| 4/22/2015 11:52:02 | 47.24 | 46.04 | 431 | 1.66 | 1.29 | 23.6 |
| 4/22/2015 11:52:05 | 47.57 | 46.37 | 268 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 11:52:07 | 47.90 | 46.70 | 93 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 11:52:08 | 48.23 | 47.03 | 188 | 1.66 | 1.29 | 10.3 |
| 4/22/2015 11:52:16 | 48.56 | 47.36 | 74 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 11:52:17 | 48.88 | 47.68 | 179 | 1.66 | 1.29 | 9.8 |
| 4/22/2015 11:52:19 | 49.21 | 48.01 | 244 | 1.66 | 1.29 | 13.3 |
| 4/22/2015 11:52:21 | 49.54 | 48.34 | 170 | 1.66 | 1.29 | 9.3 |
| 4/22/2015 11:52:24 | 49.87 | 48.67 | 137 | 1.66 | 1.29 | 7.5 |
| 4/22/2015 11:52:27 | 50.20 | 49.00 | 119 | 1.66 | 1.29 | 6.5 |
| 4/22/2015 11:52:30 | 50.53 | 49.33 | 113 | 1.66 | 1.29 | 6.2 |
| 4/22/2015 11:52:34 | 50.85 | 49.65 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 11:52:39 | 51.18 | 49.98 | 75 | 1.66 | 1.29 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:52:43 | 51.51 | 50.31 | 87 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 | 11:52:47 | 51.84 | 50.64 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 11:52:52 | 52.17 | 50.97 | 71 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 | 11:52:56 | 52.49 | 51.29 | 74 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 11:53:00 | 52.82 | 51.62 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 11:53:05 | 53.15 | 51.95 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 11:53:08 | 53.48 | 52.28 | 93 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 | 11:53:12 | 53.81 | 52.61 | 102 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 | 11:53:16 | 54.13 | 52.93 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 11:53:19 | 54.46 | 53.26 | 110 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 | 11:53:21 | 54.79 | 53.59 | 169 | 1.66 | 1.29 | 9.3 |
| 4/22/2015 | 11:53:23 | 55.12 | 53.92 | 231 | 1.66 | 1.29 | 12.6 |
| 4/22/2015 | 11:53:26 | 55.45 | 54.25 | 110 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 | 11:53:32 | 55.77 | 54.57 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 11:53:33 | 55.87 | 54.67 | 72 | 1.66 | 1.29 | 3.9 |

## F23 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:49:32

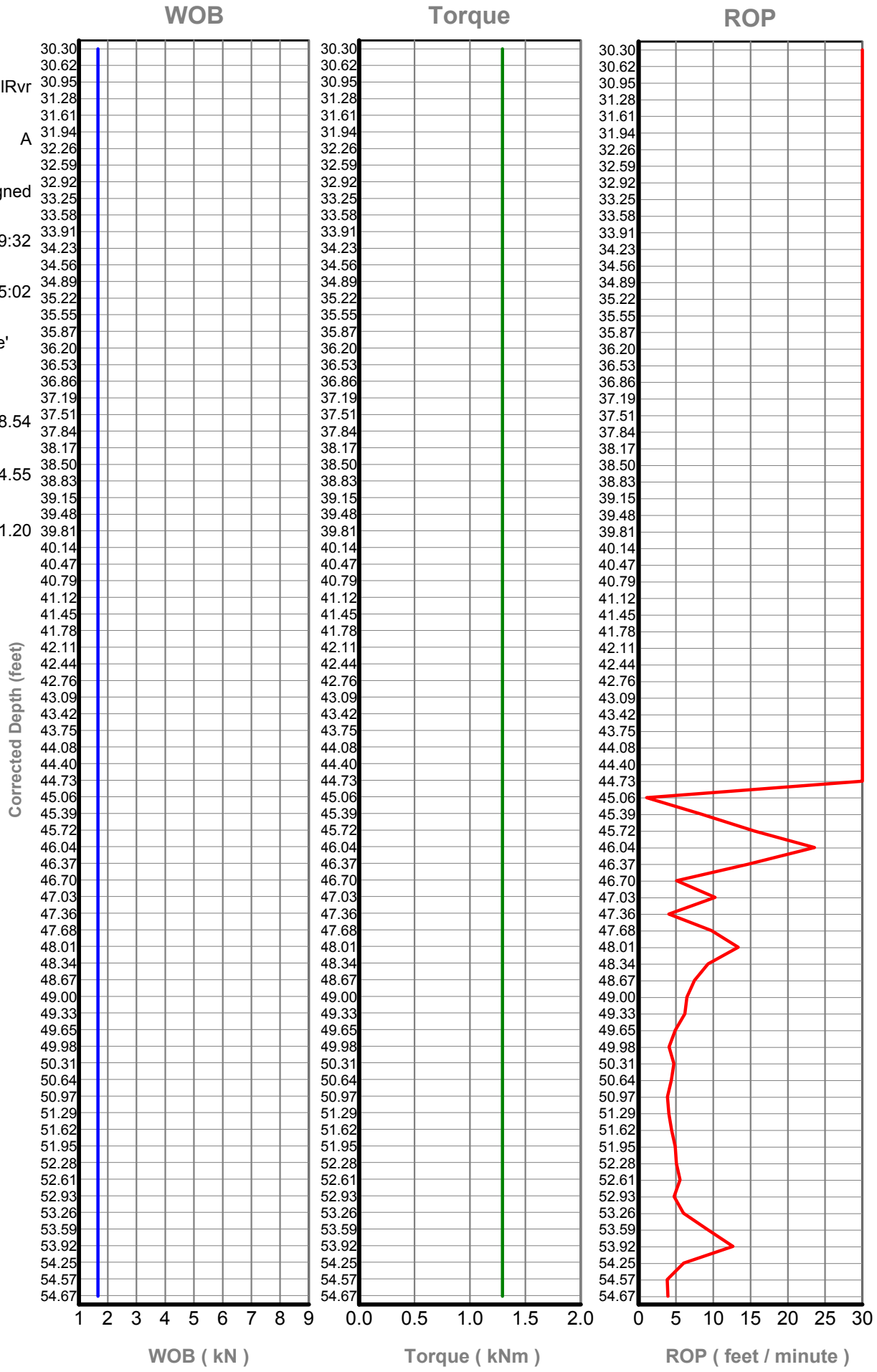
**End Date:**
4/22/2015 11:55:02

**Operator Note:**
'1.2 0.9 b Auto Complete'

**Northing:**
367,908.54

**Easting:**
252,064.55

**Tide (feet):**
1.20



## Hole: F24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:57:32 | 31.50 | 30.20 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 11:57:32 | 31.82 | 30.52 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:57:32 | 32.15 | 30.85 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 11:57:33 | 32.48 | 31.18 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 11:57:33 | 32.81 | 31.51 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:57:33 | 33.14 | 31.84 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:57:34 | 33.46 | 32.16 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:57:34 | 33.79 | 32.49 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:34 | 34.12 | 32.82 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:35 | 34.45 | 33.15 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:35 | 34.78 | 33.48 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 11:57:35 | 35.11 | 33.81 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 11:57:36 | 35.43 | 34.13 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 11:57:36 | 35.76 | 34.46 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 11:57:36 | 36.09 | 34.79 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:37 | 36.42 | 35.12 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:37 | 36.75 | 35.45 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:37 | 37.07 | 35.77 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:38 | 37.40 | 36.10 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:38 | 37.73 | 36.43 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:38 | 38.06 | 36.76 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:39 | 38.39 | 37.09 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:39 | 38.71 | 37.41 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:39 | 39.04 | 37.74 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:57:40 | 39.37 | 38.07 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:40 | 39.70 | 38.40 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:40 | 40.03 | 38.73 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:41 | 40.35 | 39.05 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:42 | 40.68 | 39.38 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:42 | 41.01 | 39.71 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:57:42 | 41.34 | 40.04 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:43 | 41.67 | 40.37 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:43 | 41.99 | 40.69 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:43 | 42.32 | 41.02 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 11:57:44 | 42.65 | 41.35 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 11:57:44 | 42.98 | 41.68 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 11:57:44 | 43.31 | 42.01 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:45 | 43.64 | 42.34 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:45 | 43.96 | 42.66 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:57:45 | 44.29 | 42.99 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:46 | 44.62 | 43.32 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:57:46 | 44.95 | 43.65 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:46 | 45.28 | 43.98 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:57:55 | 45.60 | 44.30 | 20 | 1.66 | 1.29 | 1.1 |
| 4/22/2015 11:57:59 | 45.93 | 44.63 | 26 | 1.66 | 1.29 | 1.4 |
| 4/22/2015 11:58:00 | 46.26 | 44.96 | 103 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 11:58:01 | 46.59 | 45.29 | 282 | 1.66 | 1.29 | 15.4 |
| 4/22/2015 11:58:06 | 46.92 | 45.62 | 52 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 11:58:10 | 47.24 | 45.94 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 11:58:16 | 47.57 | 46.27 | 61 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 11:58:21 | 47.90 | 46.60 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 11:58:26 | 48.23 | 46.93 | 58 | 1.66 | 1.29 | 3.2 |
| 4/22/2015 11:58:32 | 48.56 | 47.26 | 69 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 11:58:37 | 48.88 | 47.58 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 11:58:37 | 48.92 | 47.62 | 64 | 1.66 | 1.29 | 3.5 |

## F24 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:56:07

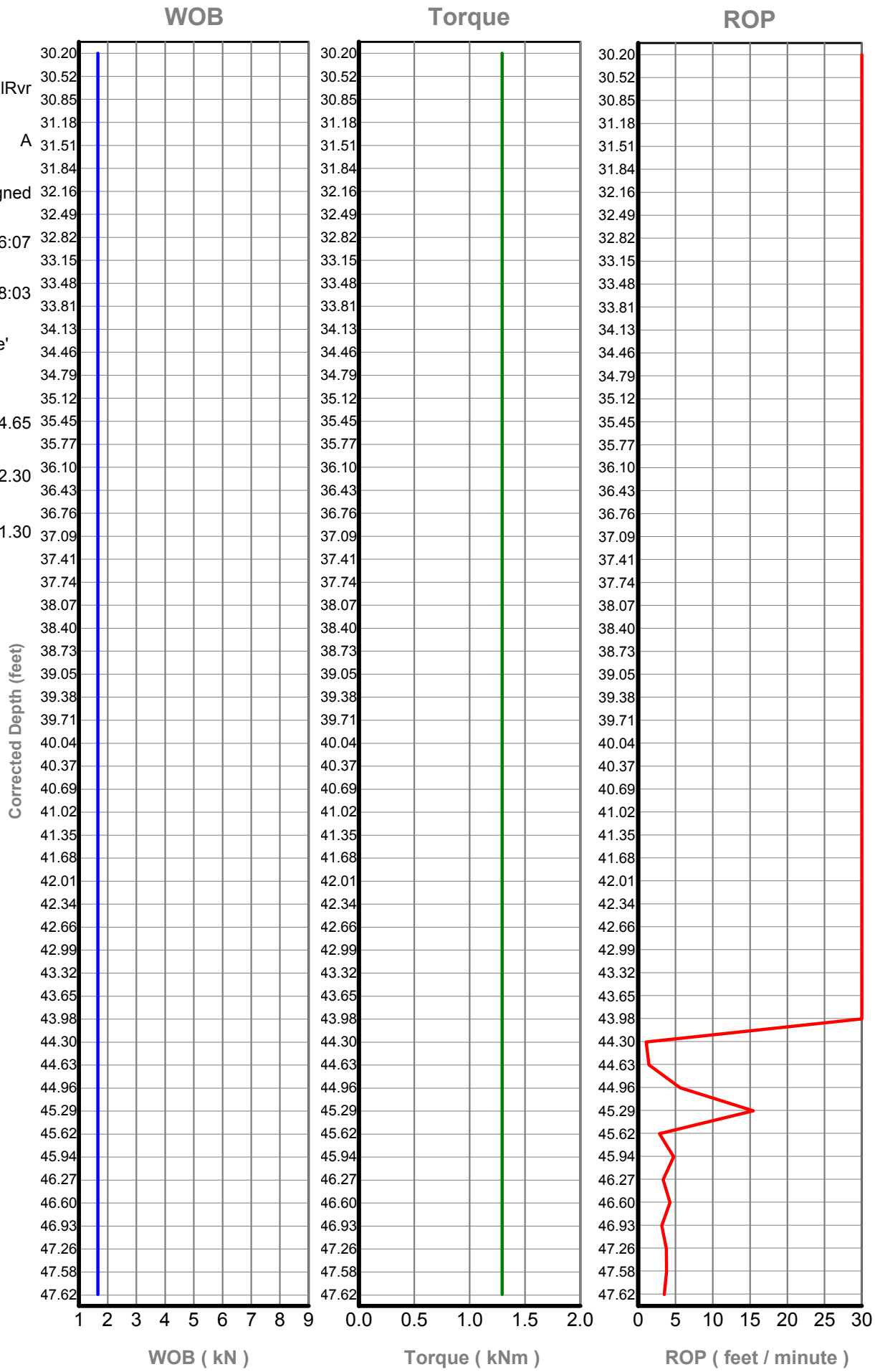
**End Date:**
4/22/2015 12:08:03

**Operator Note:**
'1.3 0.9 b Auto Complete'

**Northing:**
367,944.65

**Easting:**
252,112.30

**Tide (feet):**
1.30



## Hole: F25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:52:24 | 31.50 | 30.30 | 564 | 1.72 | 0.29 | 30.9 |
| 4/22/2015 11:52:25 | 31.82 | 30.62 | 564 | 1.71 | 0.28 | 30.9 |
| 4/22/2015 11:52:26 | 32.15 | 30.95 | 569 | 1.70 | 0.28 | 31.1 |
| 4/22/2015 11:52:26 | 32.48 | 31.28 | 572 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 11:52:27 | 32.81 | 31.61 | 584 | 1.72 | 0.28 | 31.9 |
| 4/22/2015 11:52:27 | 33.14 | 31.94 | 579 | 1.72 | 0.29 | 31.7 |
| 4/22/2015 11:52:28 | 33.46 | 32.26 | 576 | 1.71 | 0.29 | 31.5 |
| 4/22/2015 11:52:28 | 33.79 | 32.59 | 579 | 1.72 | 0.28 | 31.6 |
| 4/22/2015 11:52:29 | 34.12 | 32.92 | 568 | 1.70 | 0.28 | 31.1 |
| 4/22/2015 11:52:30 | 34.45 | 33.25 | 566 | 1.72 | 0.29 | 30.9 |
| 4/22/2015 11:52:30 | 34.78 | 33.58 | 566 | 1.71 | 0.29 | 30.9 |
| 4/22/2015 11:52:31 | 35.11 | 33.91 | 569 | 1.68 | 0.29 | 31.1 |
| 4/22/2015 11:52:31 | 35.43 | 34.23 | 569 | 1.73 | 0.29 | 31.1 |
| 4/22/2015 11:52:32 | 35.76 | 34.56 | 567 | 1.70 | 0.29 | 31.0 |
| 4/22/2015 11:52:33 | 36.09 | 34.89 | 573 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 11:52:33 | 36.42 | 35.22 | 585 | 1.70 | 0.29 | 32.0 |
| 4/22/2015 11:52:34 | 36.75 | 35.55 | 571 | 1.72 | 0.29 | 31.2 |
| 4/22/2015 11:52:35 | 37.07 | 35.87 | 574 | 1.71 | 0.29 | 31.4 |
| 4/22/2015 11:52:36 | 37.40 | 36.20 | 577 | 1.74 | 0.29 | 31.5 |
| 4/22/2015 11:52:36 | 37.73 | 36.53 | 578 | 1.72 | 0.29 | 31.6 |
| 4/22/2015 11:52:37 | 38.06 | 36.86 | 569 | 1.72 | 0.29 | 31.1 |
| 4/22/2015 11:52:37 | 38.39 | 37.19 | 572 | 1.70 | 0.28 | 31.3 |
| 4/22/2015 11:52:38 | 38.71 | 37.51 | 573 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 11:52:38 | 39.04 | 37.84 | 582 | 1.72 | 0.29 | 31.8 |
| 4/22/2015 11:52:39 | 39.37 | 38.17 | 563 | 1.70 | 0.29 | 30.8 |
| 4/22/2015 11:52:40 | 39.70 | 38.50 | 573 | 1.64 | 0.29 | 31.3 |
| 4/22/2015 11:52:40 | 40.03 | 38.83 | 577 | 1.71 | 0.29 | 31.5 |
| 4/22/2015 11:52:41 | 40.35 | 39.15 | 561 | 1.70 | 0.29 | 30.7 |
| 4/22/2015 11:52:41 | 40.68 | 39.48 | 561 | 1.70 | 0.29 | 30.7 |
| 4/22/2015 11:52:42 | 41.01 | 39.81 | 581 | 1.71 | 0.29 | 31.7 |
| 4/22/2015 11:52:43 | 41.34 | 40.14 | 574 | 1.72 | 0.29 | 31.4 |
| 4/22/2015 11:52:43 | 41.67 | 40.47 | 571 | 1.72 | 0.29 | 31.2 |
| 4/22/2015 11:52:44 | 41.99 | 40.79 | 586 | 1.71 | 0.29 | 32.0 |
| 4/22/2015 11:52:45 | 42.32 | 41.12 | 583 | 1.70 | 0.29 | 31.9 |
| 4/22/2015 11:52:46 | 42.65 | 41.45 | 563 | 1.72 | 0.29 | 30.8 |
| 4/22/2015 11:52:46 | 42.98 | 41.78 | 570 | 1.70 | 0.29 | 31.2 |
| 4/22/2015 11:52:47 | 43.31 | 42.11 | 573 | 1.72 | 0.29 | 31.4 |
| 4/22/2015 11:52:47 | 43.64 | 42.44 | 570 | 1.69 | 0.29 | 31.2 |
| 4/22/2015 11:52:48 | 43.96 | 42.76 | 570 | 1.70 | 0.29 | 31.2 |
| 4/22/2015 11:52:49 | 44.29 | 43.09 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 11:52:49 | 44.62 | 43.42 | 572 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 11:52:50 | 44.95 | 43.75 | 569 | 1.73 | 0.29 | 31.1 |
| 4/22/2015 11:52:50 | 45.28 | 44.08 | 573 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 11:52:51 | 45.60 | 44.40 | 573 | 1.68 | 0.29 | 31.3 |
| 4/22/2015 11:53:05 | 45.93 | 44.73 | 76 | 1.70 | 1.01 | 4.2 |
| 4/22/2015 11:53:07 | 46.26 | 45.06 | 209 | 1.70 | 1.04 | 11.4 |
| 4/22/2015 11:53:12 | 46.59 | 45.39 | 55 | 1.68 | 1.14 | 3.0 |
| 4/22/2015 11:53:18 | 46.92 | 45.72 | 61 | 1.70 | 1.17 | 3.3 |
| 4/22/2015 11:53:25 | 47.24 | 46.04 | 41 | 1.59 | 1.06 | 2.2 |
| 4/22/2015 11:53:34 | 47.57 | 46.37 | 45 | 1.69 | 1.15 | 2.4 |
| 4/22/2015 11:53:40 | 47.90 | 46.70 | 46 | 1.68 | 1.09 | 2.5 |
| 4/22/2015 11:53:45 | 48.23 | 47.03 | 64 | 1.68 | 1.14 | 3.5 |
| 4/22/2015 11:53:53 | 48.56 | 47.36 | 46 | 1.67 | 1.00 | 2.5 |
| 4/22/2015 11:54:01 | 48.88 | 47.68 | 49 | 1.68 | 1.06 | 2.7 |
| 4/22/2015 11:54:02 | 48.97 | 47.77 | 52 | 1.68 | 1.28 | 2.8 |

## F25 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:50:52

**End Date:**
4/22/2015 11:55:13

**Operator Note:**
'1.2 .9 c Auto Complete'

**Northing:**
367,988.94

**Easting:**
252,171.75

**Tide (feet):**
1.20



## Hole: F26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:31:06 | 32.15 | 30.25 | 764 | 0.39 | 0.34 | 41.8 |
| 4/22/2015 9:31:06 | 32.48 | 30.58 | 764 | 0.39 | 0.34 | 41.8 |
| 4/22/2015 9:31:06 | 32.81 | 30.91 | 775 | 0.40 | 0.34 | 42.4 |
| 4/22/2015 9:31:07 | 33.14 | 31.24 | 773 | 0.39 | 0.34 | 42.3 |
| 4/22/2015 9:31:07 | 33.46 | 31.56 | 784 | 0.40 | 0.34 | 42.9 |
| 4/22/2015 9:31:08 | 33.79 | 31.89 | 787 | 0.40 | 0.34 | 43.0 |
| 4/22/2015 9:31:08 | 34.12 | 32.22 | 790 | 0.40 | 0.34 | 43.2 |
| 4/22/2015 9:31:09 | 34.45 | 32.55 | 787 | 0.41 | 0.34 | 43.0 |
| 4/22/2015 9:31:09 | 34.78 | 32.88 | 789 | 0.40 | 0.34 | 43.1 |
| 4/22/2015 9:31:10 | 35.11 | 33.21 | 789 | 0.40 | 0.34 | 43.1 |
| 4/22/2015 9:31:10 | 35.43 | 33.53 | 776 | 0.40 | 0.34 | 42.4 |
| 4/22/2015 9:31:10 | 35.76 | 33.86 | 781 | 0.40 | 0.34 | 42.7 |
| 4/22/2015 9:31:11 | 36.09 | 34.19 | 781 | 0.40 | 0.34 | 42.7 |
| 4/22/2015 9:31:11 | 36.42 | 34.52 | 781 | 0.40 | 0.34 | 42.7 |
| 4/22/2015 9:31:12 | 36.75 | 34.85 | 778 | 0.40 | 0.34 | 42.5 |
| 4/22/2015 9:31:12 | 37.07 | 35.17 | 781 | 0.39 | 0.34 | 42.7 |
| 4/22/2015 9:31:13 | 37.40 | 35.50 | 778 | 0.40 | 0.34 | 42.5 |
| 4/22/2015 9:31:13 | 37.73 | 35.83 | 778 | 0.40 | 0.34 | 42.5 |
| 4/22/2015 9:31:13 | 38.06 | 36.16 | 780 | 0.40 | 0.34 | 42.7 |
| 4/22/2015 9:31:14 | 38.39 | 36.49 | 771 | 0.40 | 0.34 | 42.2 |
| 4/22/2015 9:31:14 | 38.71 | 36.81 | 784 | 0.40 | 0.34 | 42.9 |
| 4/22/2015 9:31:15 | 39.04 | 37.14 | 781 | 0.41 | 0.34 | 42.7 |
| 4/22/2015 9:31:16 | 39.37 | 37.47 | 787 | 0.40 | 0.34 | 43.0 |
| 4/22/2015 9:31:16 | 39.70 | 37.80 | 784 | 0.40 | 0.34 | 42.9 |
| 4/22/2015 9:31:17 | 40.03 | 38.13 | 793 | 0.40 | 0.34 | 43.4 |
| 4/22/2015 9:31:17 | 40.35 | 38.45 | 793 | 0.40 | 0.34 | 43.4 |
| 4/22/2015 9:31:17 | 40.68 | 38.78 | 783 | 0.41 | 0.34 | 42.8 |
| 4/22/2015 9:31:18 | 41.01 | 39.11 | 783 | 0.41 | 0.34 | 42.8 |
| 4/22/2015 9:31:18 | 41.34 | 39.44 | 781 | 0.41 | 0.34 | 42.7 |
| 4/22/2015 9:31:19 | 41.67 | 39.77 | 768 | 0.41 | 0.34 | 42.0 |
| 4/22/2015 9:31:19 | 41.99 | 40.09 | 768 | 0.41 | 0.34 | 42.0 |
| 4/22/2015 9:31:20 | 42.32 | 40.42 | 769 | 0.41 | 0.34 | 42.1 |
| 4/22/2015 9:31:20 | 42.65 | 40.75 | 779 | 0.41 | 0.34 | 42.6 |
| 4/22/2015 9:31:21 | 42.98 | 41.08 | 779 | 0.41 | 0.34 | 42.6 |
| 4/22/2015 9:31:21 | 43.31 | 41.41 | 787 | 0.41 | 0.34 | 43.0 |
| 4/22/2015 9:31:21 | 43.64 | 41.74 | 785 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:22 | 43.96 | 42.06 | 802 | 0.40 | 0.34 | 43.9 |
| 4/22/2015 9:31:22 | 44.29 | 42.39 | 790 | 0.41 | 0.34 | 43.2 |
| 4/22/2015 9:31:23 | 44.62 | 42.72 | 793 | 0.41 | 0.34 | 43.4 |
| 4/22/2015 9:31:23 | 44.95 | 43.05 | 787 | 0.41 | 0.34 | 43.0 |
| 4/22/2015 9:31:24 | 45.28 | 43.38 | 784 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:24 | 45.60 | 43.70 | 784 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:24 | 45.93 | 44.03 | 777 | 0.41 | 0.34 | 42.5 |
| 4/22/2015 9:31:25 | 46.26 | 44.36 | 783 | 0.41 | 0.34 | 42.8 |
| 4/22/2015 9:31:25 | 46.59 | 44.69 | 775 | 0.41 | 0.34 | 42.4 |
| 4/22/2015 9:31:26 | 46.92 | 45.02 | 778 | 0.41 | 0.34 | 42.5 |
| 4/22/2015 9:31:27 | 47.24 | 45.34 | 769 | 0.41 | 0.34 | 42.1 |
| 4/22/2015 9:31:27 | 47.57 | 45.67 | 785 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:28 | 47.90 | 46.00 | 789 | 0.42 | 0.34 | 43.2 |
| 4/22/2015 9:31:28 | 48.23 | 46.33 | 785 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:29 | 48.56 | 46.66 | 785 | 0.41 | 0.34 | 42.9 |
| 4/22/2015 9:31:29 | 48.88 | 46.98 | 780 | 0.41 | 0.34 | 42.6 |
| 4/22/2015 9:31:29 | 49.21 | 47.31 | 793 | 0.41 | 0.34 | 43.4 |
| 4/22/2015 9:31:30 | 49.54 | 47.64 | 780 | 0.41 | 0.34 | 42.7 |
| 4/22/2015 9:31:30 | 49.87 | 47.97 | 780 | 0.41 | 0.34 | 42.7 |
| 4/22/2015 9:31:31 | 50.20 | 48.30 | 780 | 0.40 | 0.36 | 42.7 |
| 4/22/2015 9:31:43 | 50.53 | 48.63 | 24 | 3.90 | 0.38 | 1.3 |
| 4/22/2015 9:31:44 | 50.85 | 48.95 | 174 | 4.27 | 0.40 | 9.5 |
| 4/22/2015 9:31:54 | 51.18 | 49.28 | 43 | 4.03 | 0.37 | 2.4 |
| 4/22/2015 9:31:55 | 51.51 | 49.61 | 117 | 3.98 | 0.38 | 6.4 |
| 4/22/2015 9:31:56 | 51.84 | 49.94 | 176 | 3.81 | 0.38 | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:31:57 | 52.17 | 50.27 | 336 | 3.52 | 0.37 | 18.4 |
| 4/22/2015 | 9:31:58 | 52.49 | 50.59 | 377 | 4.25 | 0.38 | 20.6 |
| 4/22/2015 | 9:32:06 | 52.82 | 50.92 | 0 | 4.11 | 0.39 | 0.0 |
| 4/22/2015 | 9:32:10 | 53.15 | 51.25 | 54 | 4.20 | 0.38 | 3.0 |
| 4/22/2015 | 9:32:11 | 53.48 | 51.58 | 200 | 3.90 | 0.37 | 10.9 |
| 4/22/2015 | 9:32:12 | 53.81 | 51.91 | 347 | 3.78 | 0.38 | 19.0 |
| 4/22/2015 | 9:32:13 | 54.13 | 52.23 | 347 | 3.75 | 0.40 | 19.0 |
| 4/22/2015 | 9:32:17 | 54.46 | 52.56 | 102 | 4.24 | 0.41 | 5.6 |
| 4/22/2015 | 9:32:21 | 54.79 | 52.89 | 84 | 4.08 | 0.40 | 4.6 |
| 4/22/2015 | 9:32:26 | 55.12 | 53.22 | 67 | 3.71 | 0.40 | 3.7 |
| 4/22/2015 | 9:32:31 | 55.45 | 53.55 | 84 | 4.14 | 0.40 | 4.6 |
| 4/22/2015 | 9:32:35 | 55.77 | 53.87 | 82 | 3.81 | 0.40 | 4.5 |
| 4/22/2015 | 9:32:39 | 56.10 | 54.20 | 81 | 3.73 | 0.40 | 4.4 |
| 4/22/2015 | 9:32:44 | 56.43 | 54.53 | 84 | 3.73 | 0.40 | 4.6 |
| 4/22/2015 | 9:32:48 | 56.76 | 54.86 | 87 | 3.83 | 0.40 | 4.7 |
| 4/22/2015 | 9:32:52 | 57.09 | 55.19 | 92 | 3.90 | 0.40 | 5.1 |
| 4/22/2015 | 9:32:54 | 57.29 | 55.39 | 98 | 3.88 | 0.40 | 5.4 |

## F26 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:29:08

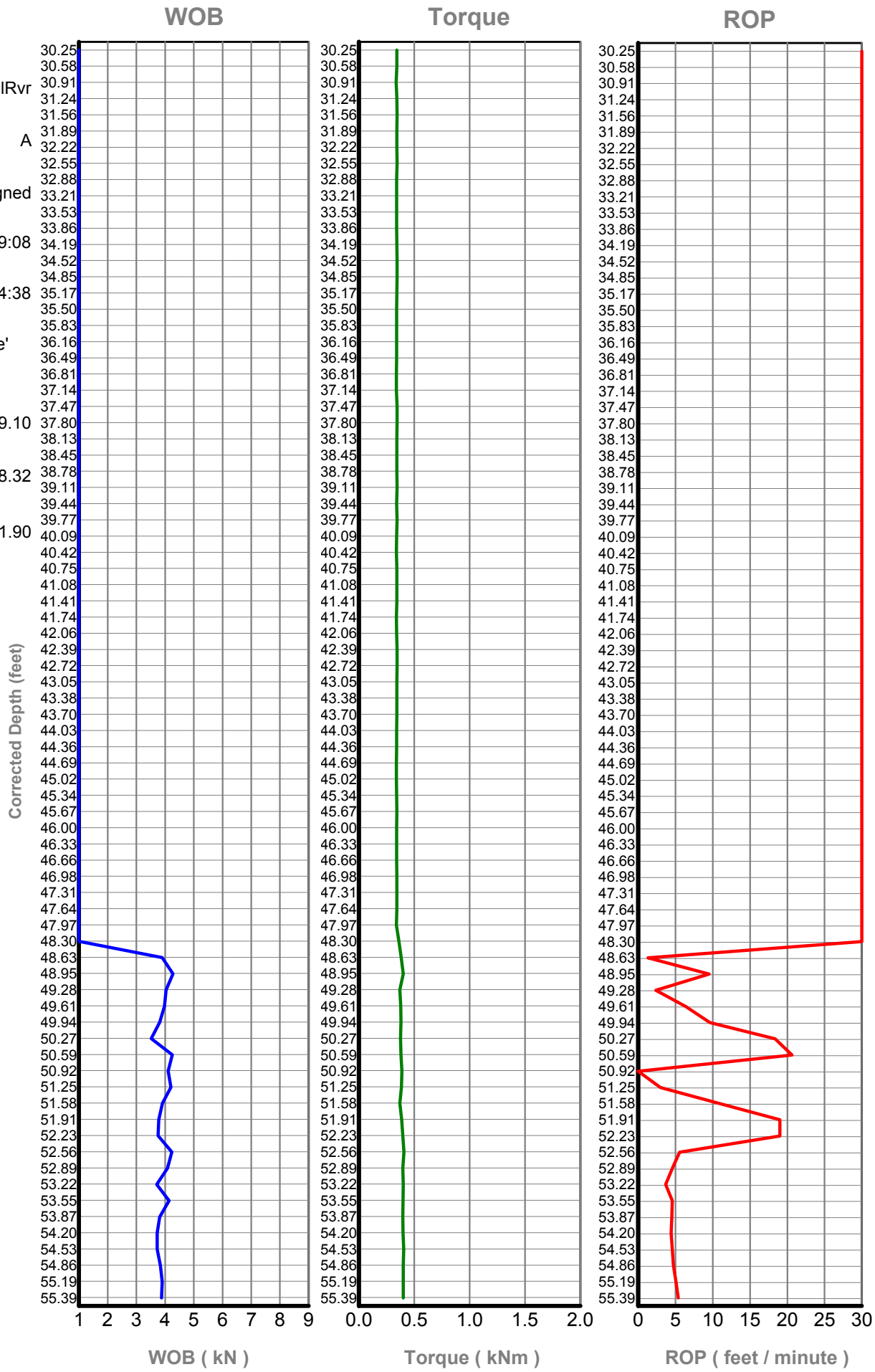
**End Date:**
4/22/2015 9:34:38

**Operator Note:**
'1.9 2.2 b Auto Complete'

**Northing:**
368,049.10

**Easting:**
252,238.32

**Tide (feet):**
1.90



## Hole: F27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:36:38 | 31.82 | 30.02 | 844 | 0.37 | 0.33 | 46.1 |
| 4/22/2015 9:36:38 | 32.15 | 30.35 | 844 | 0.37 | 0.33 | 46.1 |
| 4/22/2015 9:36:39 | 32.48 | 30.68 | 844 | 0.37 | 0.32 | 46.1 |
| 4/22/2015 9:36:39 | 32.81 | 31.01 | 867 | 0.37 | 0.33 | 47.4 |
| 4/22/2015 9:36:40 | 33.14 | 31.34 | 846 | 0.37 | 0.33 | 46.2 |
| 4/22/2015 9:36:40 | 33.46 | 31.66 | 846 | 0.37 | 0.33 | 46.2 |
| 4/22/2015 9:36:40 | 33.79 | 31.99 | 836 | 0.37 | 0.33 | 45.7 |
| 4/22/2015 9:36:41 | 34.12 | 32.32 | 872 | 0.37 | 0.33 | 47.7 |
| 4/22/2015 9:36:41 | 34.45 | 32.65 | 872 | 0.37 | 0.33 | 47.7 |
| 4/22/2015 9:36:42 | 34.78 | 32.98 | 874 | 0.36 | 0.33 | 47.8 |
| 4/22/2015 9:36:42 | 35.11 | 33.31 | 874 | 0.36 | 0.33 | 47.8 |
| 4/22/2015 9:36:42 | 35.43 | 33.63 | 874 | 0.38 | 0.33 | 47.8 |
| 4/22/2015 9:36:43 | 35.76 | 33.96 | 849 | 0.37 | 0.33 | 46.4 |
| 4/22/2015 9:36:43 | 36.09 | 34.29 | 849 | 0.37 | 0.33 | 46.4 |
| 4/22/2015 9:36:44 | 36.42 | 34.62 | 852 | 0.37 | 0.33 | 46.6 |
| 4/22/2015 9:36:44 | 36.75 | 34.95 | 852 | 0.37 | 0.33 | 46.6 |
| 4/22/2015 9:36:44 | 37.07 | 35.27 | 852 | 0.37 | 0.34 | 46.6 |
| 4/22/2015 9:36:45 | 37.40 | 35.60 | 888 | 0.37 | 0.33 | 48.5 |
| 4/22/2015 9:36:45 | 37.73 | 35.93 | 880 | 0.37 | 0.33 | 48.1 |
| 4/22/2015 9:36:46 | 38.06 | 36.26 | 880 | 0.37 | 0.33 | 48.1 |
| 4/22/2015 9:36:46 | 38.39 | 36.59 | 884 | 0.37 | 0.33 | 48.3 |
| 4/22/2015 9:36:46 | 38.71 | 36.91 | 874 | 0.37 | 0.33 | 47.8 |
| 4/22/2015 9:36:47 | 39.04 | 37.24 | 868 | 0.37 | 0.33 | 47.5 |
| 4/22/2015 9:36:48 | 39.37 | 37.57 | 847 | 0.37 | 0.33 | 46.3 |
| 4/22/2015 9:36:48 | 39.70 | 37.90 | 847 | 0.37 | 0.33 | 46.3 |
| 4/22/2015 9:36:48 | 40.03 | 38.23 | 852 | 0.36 | 0.33 | 46.6 |
| 4/22/2015 9:36:48 | 40.35 | 38.55 | 868 | 0.37 | 0.33 | 47.4 |
| 4/22/2015 9:36:49 | 40.68 | 38.88 | 868 | 0.37 | 0.33 | 47.4 |
| 4/22/2015 9:36:50 | 41.01 | 39.21 | 868 | 0.37 | 0.33 | 47.4 |
| 4/22/2015 9:36:50 | 41.34 | 39.54 | 872 | 0.37 | 0.33 | 47.7 |
| 4/22/2015 9:36:50 | 41.67 | 39.87 | 872 | 0.44 | 0.33 | 47.7 |
| 4/22/2015 9:36:51 | 41.99 | 40.19 | 897 | 0.41 | 0.33 | 49.0 |
| 4/22/2015 9:36:51 | 42.32 | 40.52 | 899 | 0.43 | 0.33 | 49.2 |
| 4/22/2015 9:36:52 | 42.65 | 40.85 | 899 | 0.43 | 0.33 | 49.2 |
| 4/22/2015 9:36:52 | 42.98 | 41.18 | 896 | 0.37 | 0.33 | 49.0 |
| 4/22/2015 9:36:52 | 43.31 | 41.51 | 882 | 0.36 | 0.33 | 48.3 |
| 4/22/2015 9:36:53 | 43.64 | 41.84 | 876 | 0.37 | 0.33 | 47.9 |
| 4/22/2015 9:36:53 | 43.96 | 42.16 | 876 | 0.37 | 0.33 | 47.9 |
| 4/22/2015 9:36:54 | 44.29 | 42.49 | 876 | 0.37 | 0.33 | 47.9 |
| 4/22/2015 9:36:54 | 44.62 | 42.82 | 851 | 0.37 | 0.33 | 46.6 |
| 4/22/2015 9:36:54 | 44.95 | 43.15 | 862 | 0.37 | 0.33 | 47.1 |
| 4/22/2015 9:36:55 | 45.28 | 43.48 | 862 | 0.37 | 0.33 | 47.1 |
| 4/22/2015 9:36:55 | 45.60 | 43.80 | 862 | 0.37 | 0.33 | 47.1 |
| 4/22/2015 9:36:55 | 45.93 | 44.13 | 861 | 0.37 | 0.33 | 47.1 |
| 4/22/2015 9:36:56 | 46.26 | 44.46 | 861 | 0.37 | 0.33 | 47.1 |
| 4/22/2015 9:36:56 | 46.59 | 44.79 | 879 | 0.37 | 0.32 | 48.1 |
| 4/22/2015 9:36:57 | 46.92 | 45.12 | 896 | 0.37 | 0.33 | 49.0 |
| 4/22/2015 9:36:58 | 47.24 | 45.44 | 896 | 0.37 | 0.33 | 49.0 |
| 4/22/2015 9:36:58 | 47.57 | 45.77 | 879 | 0.36 | 0.34 | 48.0 |
| 4/22/2015 9:37:10 | 47.90 | 46.10 | 0 | 3.79 | 0.37 | 0.0 |
| 4/22/2015 9:37:13 | 48.23 | 46.43 | 93 | 5.91 | 0.40 | 5.1 |
| 4/22/2015 9:37:15 | 48.56 | 46.76 | 159 | 4.32 | 0.41 | 8.7 |
| 4/22/2015 9:37:17 | 48.88 | 47.08 | 118 | 5.03 | 0.39 | 6.4 |
| 4/22/2015 9:37:21 | 49.21 | 47.41 | 134 | 6.01 | 0.40 | 7.3 |
| 4/22/2015 9:37:27 | 49.54 | 47.74 | 36 | 5.37 | 0.37 | 1.9 |
| 4/22/2015 9:37:31 | 49.87 | 48.07 | 124 | 5.00 | 0.38 | 6.8 |
| 4/22/2015 9:37:32 | 50.20 | 48.40 | 226 | 4.20 | 0.38 | 12.4 |
| 4/22/2015 9:37:34 | 50.53 | 48.73 | 246 | 3.86 | 0.38 | 13.4 |
| 4/22/2015 9:37:36 | 50.85 | 49.05 | 194 | 3.65 | 0.39 | 10.6 |
| 4/22/2015 9:37:40 | 51.18 | 49.38 | 93 | 4.22 | 0.40 | 5.1 |
| 4/22/2015 9:37:43 | 51.51 | 49.71 | 106 | 3.60 | 0.40 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:37:46 | 51.84 | 50.04 | 108 | 3.73 | 0.40 | 5.9 |
| 4/22/2015 | 9:37:48 | 52.17 | 50.37 | 159 | 3.80 | 0.39 | 8.7 |
| 4/22/2015 | 9:37:52 | 52.49 | 50.69 | 90 | 3.71 | 0.40 | 4.9 |
| 4/22/2015 | 9:37:56 | 52.82 | 51.02 | 94 | 3.96 | 0.39 | 5.1 |
| 4/22/2015 | 9:37:59 | 53.15 | 51.35 | 100 | 3.92 | 0.40 | 5.4 |
| 4/22/2015 | 9:38:03 | 53.48 | 51.68 | 101 | 4.55 | 0.40 | 5.5 |
| 4/22/2015 | 9:38:07 | 53.81 | 52.01 | 93 | 4.17 | 0.40 | 5.1 |
| 4/22/2015 | 9:38:11 | 54.13 | 52.33 | 98 | 4.16 | 0.39 | 5.3 |
| 4/22/2015 | 9:38:14 | 54.46 | 52.66 | 122 | 3.67 | 0.39 | 6.6 |
| 4/22/2015 | 9:38:18 | 54.79 | 52.99 | 90 | 4.10 | 0.40 | 4.9 |
| 4/22/2015 | 9:38:21 | 55.12 | 53.32 | 90 | 4.87 | 0.40 | 4.9 |
| 4/22/2015 | 9:38:31 | 55.45 | 53.65 | 27 | 4.21 | 0.40 | 1.5 |
| 4/22/2015 | 9:38:37 | 55.77 | 53.97 | 68 | 4.18 | 0.39 | 3.7 |
| 4/22/2015 | 9:38:41 | 56.10 | 54.30 | 85 | 3.54 | 0.40 | 4.6 |
| 4/22/2015 | 9:38:45 | 56.43 | 54.63 | 95 | 3.64 | 0.40 | 5.2 |
| 4/22/2015 | 9:38:49 | 56.76 | 54.96 | 78 | 3.51 | 0.40 | 4.3 |
| 4/22/2015 | 9:38:53 | 57.09 | 55.29 | 93 | 3.59 | 0.40 | 5.1 |
| 4/22/2015 | 9:38:55 | 57.22 | 55.42 | 75 | 3.92 | 0.40 | 4.1 |

## F27 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:35:19

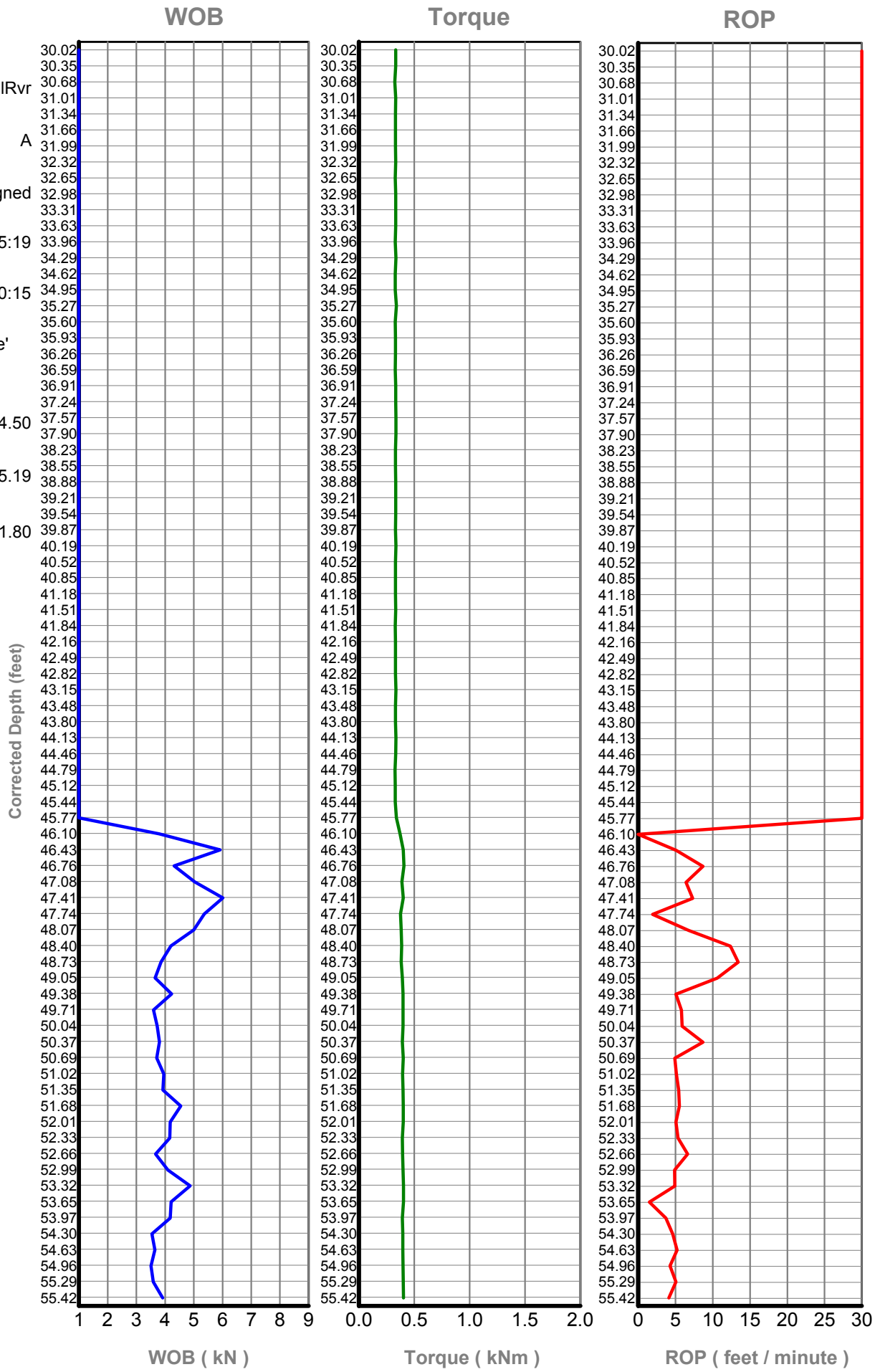
**End Date:**
4/22/2015 9:40:15

**Operator Note:**
'1.8 2.2 b Auto Complete'

**Northing:**
368,084.50

**Easting:**
252,285.19

**Tide (feet):**
1.80



## Hole: F28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:31:46 | 32.15 | 30.25 | 1,487 | 3.20 | 0.31 | 81.3 |
| 4/22/2015 9:31:47 | 32.48 | 30.58 | 1,513 | 3.16 | 0.31 | 82.7 |
| 4/22/2015 9:31:47 | 32.81 | 30.91 | 1,513 | 3.16 | 0.31 | 82.7 |
| 4/22/2015 9:31:47 | 33.14 | 31.24 | 1,489 | 3.20 | 0.31 | 81.4 |
| 4/22/2015 9:31:47 | 33.46 | 31.56 | 1,489 | 3.20 | 0.31 | 81.4 |
| 4/22/2015 9:31:48 | 33.79 | 31.89 | 1,489 | 3.20 | 0.31 | 81.4 |
| 4/22/2015 9:31:48 | 34.12 | 32.22 | 1,497 | 3.22 | 0.30 | 81.9 |
| 4/22/2015 9:31:48 | 34.45 | 32.55 | 1,497 | 3.22 | 0.30 | 81.9 |
| 4/22/2015 9:31:48 | 34.78 | 32.88 | 1,495 | 3.20 | 0.30 | 81.7 |
| 4/22/2015 9:31:48 | 35.11 | 33.21 | 1,495 | 3.20 | 0.30 | 81.7 |
| 4/22/2015 9:31:49 | 35.43 | 33.53 | 1,507 | 3.22 | 0.31 | 82.4 |
| 4/22/2015 9:31:49 | 35.76 | 33.86 | 1,507 | 3.22 | 0.31 | 82.4 |
| 4/22/2015 9:31:49 | 36.09 | 34.19 | 1,492 | 3.20 | 0.31 | 81.6 |
| 4/22/2015 9:31:49 | 36.42 | 34.52 | 1,492 | 3.20 | 0.31 | 81.6 |
| 4/22/2015 9:31:50 | 36.75 | 34.85 | 1,480 | 3.18 | 0.31 | 80.9 |
| 4/22/2015 9:31:50 | 37.07 | 35.17 | 1,480 | 3.18 | 0.31 | 80.9 |
| 4/22/2015 9:31:50 | 37.40 | 35.50 | 1,487 | 3.20 | 0.31 | 81.3 |
| 4/22/2015 9:31:51 | 37.73 | 35.83 | 1,487 | 3.20 | 0.31 | 81.3 |
| 4/22/2015 9:31:51 | 38.06 | 36.16 | 1,487 | 3.20 | 0.31 | 81.3 |
| 4/22/2015 9:31:51 | 38.39 | 36.49 | 1,461 | 3.16 | 0.31 | 79.9 |
| 4/22/2015 9:31:51 | 38.71 | 36.81 | 1,461 | 3.16 | 0.31 | 79.9 |
| 4/22/2015 9:31:51 | 39.04 | 37.14 | 1,461 | 3.22 | 0.31 | 79.9 |
| 4/22/2015 9:31:52 | 39.37 | 37.47 | 1,461 | 3.22 | 0.31 | 79.9 |
| 4/22/2015 9:31:52 | 39.70 | 37.80 | 1,474 | 3.19 | 0.31 | 80.6 |
| 4/22/2015 9:31:52 | 40.03 | 38.13 | 1,474 | 3.19 | 0.31 | 80.6 |
| 4/22/2015 9:31:52 | 40.35 | 38.45 | 1,457 | 3.18 | 0.31 | 79.7 |
| 4/22/2015 9:31:53 | 40.68 | 38.78 | 1,457 | 3.18 | 0.31 | 79.7 |
| 4/22/2015 9:31:53 | 41.01 | 39.11 | 1,484 | 3.19 | 0.31 | 81.1 |
| 4/22/2015 9:31:53 | 41.34 | 39.44 | 1,484 | 3.19 | 0.31 | 81.1 |
| 4/22/2015 9:31:53 | 41.67 | 39.77 | 1,484 | 3.19 | 0.31 | 81.1 |
| 4/22/2015 9:31:53 | 41.99 | 40.09 | 1,490 | 3.18 | 0.30 | 81.5 |
| 4/22/2015 9:31:54 | 42.32 | 40.42 | 1,490 | 3.18 | 0.30 | 81.5 |
| 4/22/2015 9:31:54 | 42.65 | 40.75 | 1,482 | 3.21 | 0.30 | 81.1 |
| 4/22/2015 9:31:54 | 42.98 | 41.08 | 1,482 | 3.21 | 0.30 | 81.1 |
| 4/22/2015 9:31:54 | 43.31 | 41.41 | 1,482 | 3.20 | 0.30 | 81.1 |
| 4/22/2015 9:31:55 | 43.64 | 41.74 | 1,482 | 3.20 | 0.30 | 81.1 |
| 4/22/2015 9:31:55 | 43.96 | 42.06 | 1,484 | 3.18 | 0.30 | 81.1 |
| 4/22/2015 9:31:55 | 44.29 | 42.39 | 1,484 | 3.18 | 0.30 | 81.1 |
| 4/22/2015 9:31:55 | 44.62 | 42.72 | 1,512 | 3.22 | 0.30 | 82.7 |
| 4/22/2015 9:31:56 | 44.95 | 43.05 | 1,512 | 3.22 | 0.30 | 82.7 |
| 4/22/2015 9:31:56 | 45.28 | 43.38 | 1,463 | 3.18 | 0.30 | 80.0 |
| 4/22/2015 9:31:56 | 45.60 | 43.70 | 1,463 | 3.18 | 0.30 | 80.0 |
| 4/22/2015 9:31:57 | 45.93 | 44.03 | 1,463 | 3.18 | 0.30 | 80.0 |
| 4/22/2015 9:31:57 | 46.26 | 44.36 | 1,463 | 3.20 | 0.30 | 80.0 |
| 4/22/2015 9:31:57 | 46.59 | 44.69 | 1,463 | 3.20 | 0.30 | 80.0 |
| 4/22/2015 9:31:57 | 46.92 | 45.02 | 1,440 | 3.28 | 0.31 | 78.8 |
| 4/22/2015 9:32:09 | 47.24 | 45.34 | 0 | 1.58 | 0.31 | 0.0 |
| 4/22/2015 9:32:20 | 47.57 | 45.67 | 87 | 1.51 | 1.01 | 4.8 |
| 4/22/2015 9:32:22 | 47.90 | 46.00 | 260 | 1.45 | 1.01 | 14.2 |
| 4/22/2015 9:32:23 | 48.23 | 46.33 | 289 | 1.43 | 1.01 | 15.8 |
| 4/22/2015 9:32:24 | 48.56 | 46.66 | 284 | 1.45 | 1.01 | 15.6 |
| 4/22/2015 9:32:25 | 48.88 | 46.98 | 286 | 1.99 | 1.00 | 15.7 |
| 4/22/2015 9:32:26 | 49.21 | 47.31 | 358 | 1.61 | 1.00 | 19.6 |
| 4/22/2015 9:32:27 | 49.54 | 47.64 | 387 | 1.74 | 1.04 | 21.2 |
| 4/22/2015 9:32:28 | 49.87 | 47.97 | 365 | 1.37 | 1.00 | 19.9 |
| 4/22/2015 9:32:29 | 50.20 | 48.30 | 336 | 1.95 | 1.00 | 18.4 |
| 4/22/2015 9:32:30 | 50.53 | 48.63 | 356 | 1.40 | 0.99 | 19.5 |
| 4/22/2015 9:32:31 | 50.85 | 48.95 | 356 | 1.40 | 0.98 | 19.4 |
| 4/22/2015 9:32:32 | 51.18 | 49.28 | 356 | 1.84 | 0.97 | 19.5 |
| 4/22/2015 9:32:33 | 51.51 | 49.61 | 388 | 3.37 | 0.97 | 21.2 |
| 4/22/2015 9:32:34 | 51.84 | 49.94 | 420 | 1.53 | 0.97 | 22.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:32:35 | 52.17 | 50.27 | 419 | 1.43 | 0.95 | 22.9 |
| 4/22/2015 | 9:32:36 | 52.49 | 50.59 | 426 | 1.39 | 0.96 | 23.3 |
| 4/22/2015 | 9:32:37 | 52.82 | 50.92 | 399 | 1.07 | 0.94 | 21.8 |
| 4/22/2015 | 9:32:37 | 53.15 | 51.25 | 423 | 3.36 | 0.95 | 23.1 |
| 4/22/2015 | 9:32:38 | 53.48 | 51.58 | 425 | 1.56 | 1.03 | 23.2 |
| 4/22/2015 | 9:32:40 | 53.81 | 51.91 | 363 | 1.49 | 0.96 | 19.8 |
| 4/22/2015 | 9:32:41 | 54.13 | 52.23 | 290 | 1.41 | 0.95 | 15.9 |
| 4/22/2015 | 9:32:42 | 54.46 | 52.56 | 321 | 1.52 | 0.95 | 17.5 |
| 4/22/2015 | 9:32:43 | 54.79 | 52.89 | 322 | 1.38 | 0.94 | 17.6 |
| 4/22/2015 | 9:32:44 | 55.12 | 53.22 | 315 | 1.62 | 0.95 | 17.2 |
| 4/22/2015 | 9:32:46 | 55.45 | 53.55 | 289 | 1.53 | 0.98 | 15.8 |
| 4/22/2015 | 9:32:47 | 55.77 | 53.87 | 306 | 1.49 | 0.91 | 16.7 |
| 4/22/2015 | 9:32:47 | 56.10 | 54.20 | 336 | 1.42 | 0.96 | 18.4 |
| 4/22/2015 | 9:32:49 | 56.43 | 54.53 | 358 | 1.46 | 0.94 | 19.6 |
| 4/22/2015 | 9:32:50 | 56.76 | 54.86 | 312 | 1.45 | 0.94 | 17.1 |
| 4/22/2015 | 9:32:51 | 57.09 | 55.19 | 324 | 1.56 | 1.03 | 17.7 |
| 4/22/2015 | 9:32:52 | 57.41 | 55.51 | 313 | 1.40 | 0.93 | 17.1 |

## F28 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:29:52

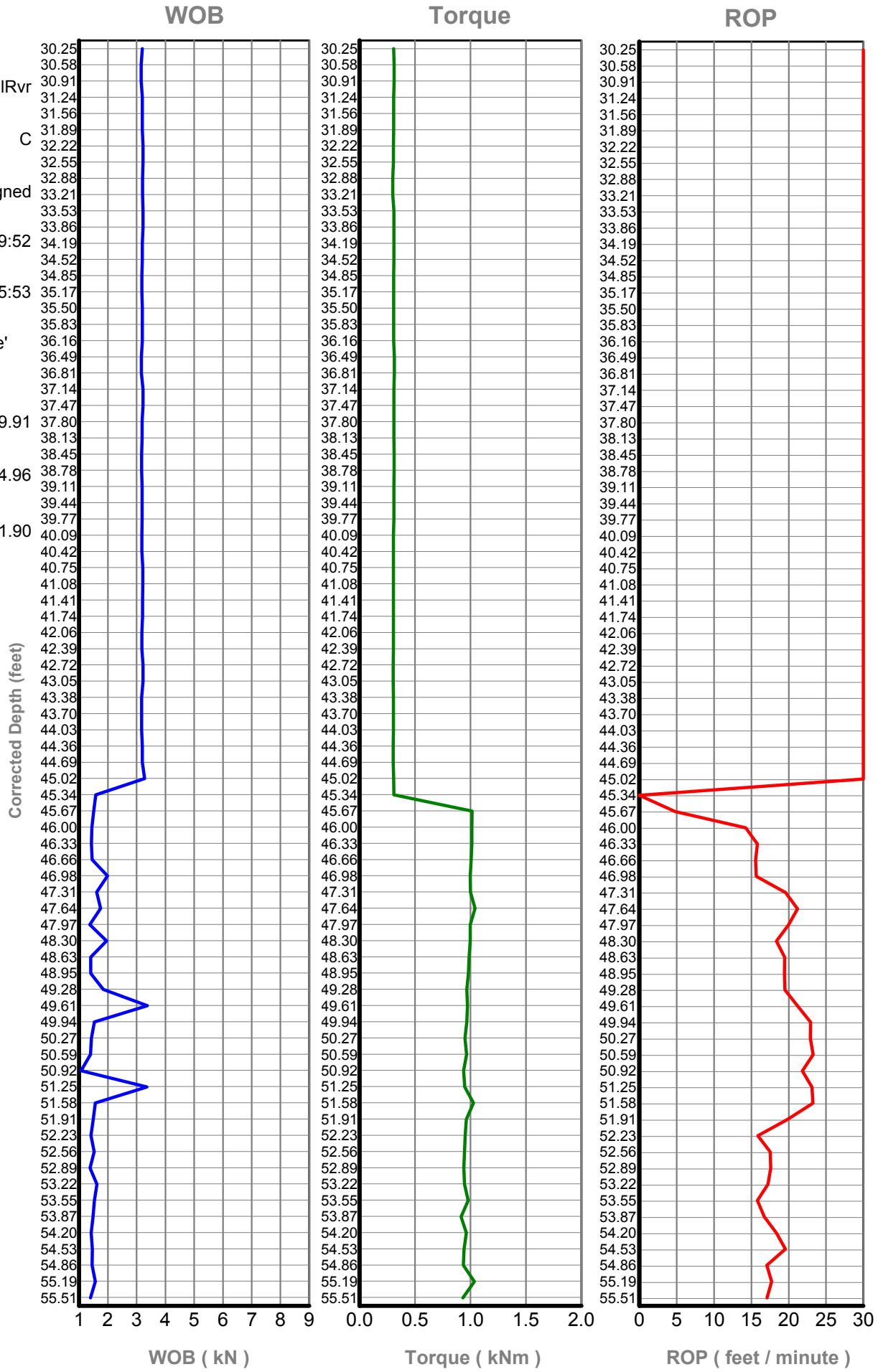
**End Date:**
4/22/2015 9:35:53

**Operator Note:**
'1.9 2.2 c Auto Complete'

**Northing:**
368,129.91

**Easting:**
252,344.96

**Tide (feet):**
1.90



## Hole: F29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 10:13:15 | 31.82 | 30.32 | 922 | 0.41 | 0.32 | 50.4 |
| 4/23/2015 10:13:16 | 32.15 | 30.65 | 909 | 0.42 | 0.32 | 49.7 |
| 4/23/2015 10:13:16 | 32.48 | 30.98 | 909 | 0.42 | 0.32 | 49.7 |
| 4/23/2015 10:13:16 | 32.81 | 31.31 | 911 | 0.41 | 0.33 | 49.8 |
| 4/23/2015 10:13:17 | 33.14 | 31.64 | 911 | 0.41 | 0.33 | 49.8 |
| 4/23/2015 10:13:17 | 33.46 | 31.96 | 919 | 0.40 | 0.33 | 50.2 |
| 4/23/2015 10:13:18 | 33.79 | 32.29 | 919 | 0.40 | 0.33 | 50.2 |
| 4/23/2015 10:13:18 | 34.12 | 32.62 | 908 | 0.43 | 0.33 | 49.6 |
| 4/23/2015 10:13:18 | 34.45 | 32.95 | 886 | 0.41 | 0.33 | 48.5 |
| 4/23/2015 10:13:19 | 34.78 | 33.28 | 886 | 0.41 | 0.33 | 48.5 |
| 4/23/2015 10:13:19 | 35.11 | 33.61 | 886 | 0.41 | 0.32 | 48.5 |
| 4/23/2015 10:13:20 | 35.43 | 33.93 | 901 | 0.32 | 0.32 | 49.3 |
| 4/23/2015 10:13:20 | 35.76 | 34.26 | 901 | 0.31 | 0.32 | 49.3 |
| 4/23/2015 10:13:20 | 36.09 | 34.59 | 901 | 0.31 | 0.32 | 49.3 |
| 4/23/2015 10:13:21 | 36.42 | 34.92 | 901 | 0.31 | 0.32 | 49.3 |
| 4/23/2015 10:13:21 | 36.75 | 35.25 | 893 | 0.36 | 0.33 | 48.8 |
| 4/23/2015 10:13:22 | 37.07 | 35.57 | 893 | 0.42 | 0.34 | 48.8 |
| 4/23/2015 10:13:22 | 37.40 | 35.90 | 893 | 0.42 | 0.34 | 48.8 |
| 4/23/2015 10:13:22 | 37.73 | 36.23 | 907 | 0.45 | 0.34 | 49.6 |
| 4/23/2015 10:13:23 | 38.06 | 36.56 | 926 | 0.45 | 0.35 | 50.6 |
| 4/23/2015 10:13:23 | 38.39 | 36.89 | 931 | 0.45 | 0.34 | 50.9 |
| 4/23/2015 10:13:24 | 38.71 | 37.21 | 931 | 0.45 | 0.34 | 50.9 |
| 4/23/2015 10:13:24 | 39.04 | 37.54 | 946 | 0.44 | 0.35 | 51.7 |
| 4/23/2015 10:13:24 | 39.37 | 37.87 | 954 | 0.45 | 0.35 | 52.2 |
| 4/23/2015 10:13:25 | 39.70 | 38.20 | 954 | 0.45 | 0.35 | 52.2 |
| 4/23/2015 10:13:25 | 40.03 | 38.53 | 943 | 0.44 | 0.35 | 51.6 |
| 4/23/2015 10:13:25 | 40.35 | 38.85 | 941 | 0.44 | 0.35 | 51.5 |
| 4/23/2015 10:13:26 | 40.68 | 39.18 | 941 | 0.44 | 0.35 | 51.5 |
| 4/23/2015 10:13:26 | 41.01 | 39.51 | 941 | 0.44 | 0.35 | 51.5 |
| 4/23/2015 10:13:26 | 41.34 | 39.84 | 944 | 0.45 | 0.35 | 51.6 |
| 4/23/2015 10:13:27 | 41.67 | 40.17 | 944 | 0.45 | 0.35 | 51.6 |
| 4/23/2015 10:13:27 | 41.99 | 40.49 | 936 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 10:13:28 | 42.32 | 40.82 | 936 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 10:13:28 | 42.65 | 41.15 | 936 | 0.44 | 0.35 | 51.2 |
| 4/23/2015 10:13:29 | 42.98 | 41.48 | 944 | 0.45 | 0.35 | 51.6 |
| 4/23/2015 10:13:29 | 43.31 | 41.81 | 926 | 0.45 | 0.35 | 50.6 |
| 4/23/2015 10:13:29 | 43.64 | 42.14 | 926 | 0.45 | 0.35 | 50.6 |
| 4/23/2015 10:13:30 | 43.96 | 42.46 | 926 | 0.44 | 0.35 | 50.6 |
| 4/23/2015 10:13:30 | 44.29 | 42.79 | 915 | 0.43 | 0.35 | 50.0 |
| 4/23/2015 10:13:30 | 44.62 | 43.12 | 915 | 0.43 | 0.35 | 50.0 |
| 4/23/2015 10:13:31 | 44.95 | 43.45 | 915 | 0.45 | 0.35 | 50.0 |
| 4/23/2015 10:13:31 | 45.28 | 43.78 | 941 | 0.43 | 0.35 | 51.4 |
| 4/23/2015 10:13:32 | 45.60 | 44.10 | 901 | 0.43 | 0.35 | 49.3 |
| 4/23/2015 10:13:32 | 45.93 | 44.43 | 901 | 0.43 | 0.35 | 49.3 |
| 4/23/2015 10:13:32 | 46.26 | 44.76 | 905 | 0.44 | 0.35 | 49.5 |
| 4/23/2015 10:13:33 | 46.59 | 45.09 | 905 | 0.44 | 0.35 | 49.5 |
| 4/23/2015 10:13:33 | 46.92 | 45.42 | 946 | 0.43 | 0.35 | 51.7 |
| 4/23/2015 10:13:34 | 47.24 | 45.74 | 946 | 0.43 | 0.35 | 51.7 |
| 4/23/2015 10:13:34 | 47.57 | 46.07 | 950 | 0.44 | 0.35 | 52.0 |
| 4/23/2015 10:13:34 | 47.90 | 46.40 | 910 | 0.45 | 0.35 | 49.8 |
| 4/23/2015 10:13:35 | 48.23 | 46.73 | 910 | 0.44 | 0.35 | 49.8 |
| 4/23/2015 10:13:35 | 48.56 | 47.06 | 910 | 0.44 | 0.35 | 49.8 |
| 4/23/2015 10:13:35 | 48.88 | 47.38 | 942 | 0.44 | 0.34 | 51.5 |
| 4/23/2015 10:13:36 | 49.21 | 47.71 | 937 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 10:13:36 | 49.54 | 48.04 | 937 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 10:13:36 | 49.87 | 48.37 | 937 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 10:13:37 | 50.20 | 48.70 | 920 | 0.45 | 0.35 | 50.3 |
| 4/23/2015 10:13:38 | 50.53 | 49.03 | 917 | 0.44 | 0.35 | 50.2 |
| 4/23/2015 10:13:38 | 50.85 | 49.35 | 917 | 0.44 | 0.35 | 50.2 |
| 4/23/2015 10:13:38 | 51.18 | 49.68 | 894 | 0.45 | 0.35 | 48.9 |
| 4/23/2015 10:13:38 | 51.51 | 50.01 | 894 | 0.45 | 0.35 | 48.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 10:13:39 | 51.84 | 50.34 | 932 | 0.45 | 0.35 | 51.0 |
| 4/23/2015 | 10:13:40 | 52.17 | 50.67 | 932 | 0.45 | 0.35 | 51.0 |
| 4/23/2015 | 10:13:39 | 52.49 | 50.99 | 920 | 0.44 | 0.35 | 50.3 |
| 4/23/2015 | 10:13:40 | 52.82 | 51.32 | 930 | 0.44 | 0.35 | 50.8 |
| 4/23/2015 | 10:13:41 | 53.15 | 51.65 | 924 | 0.45 | 0.35 | 50.5 |
| 4/23/2015 | 10:13:41 | 53.48 | 51.98 | 924 | 0.45 | 0.35 | 50.5 |
| 4/23/2015 | 10:13:41 | 53.81 | 52.31 | 938 | 0.44 | 0.35 | 51.3 |
| 4/23/2015 | 10:13:42 | 54.13 | 52.63 | 878 | 0.29 | 0.33 | 48.0 |
| 4/23/2015 | 10:13:42 | 54.46 | 52.96 | 878 | 0.31 | 0.34 | 48.0 |
| 4/23/2015 | 10:13:43 | 54.79 | 53.29 | 863 | 0.31 | 0.34 | 47.2 |
| 4/23/2015 | 10:13:43 | 55.12 | 53.62 | 863 | 0.31 | 0.34 | 47.2 |
| 4/23/2015 | 10:13:44 | 55.45 | 53.95 | 831 | 0.31 | 0.34 | 45.5 |
| 4/23/2015 | 10:13:44 | 55.77 | 54.27 | 831 | 0.31 | 0.34 | 45.5 |
| 4/23/2015 | 10:13:44 | 56.10 | 54.60 | 808 | 0.31 | 0.34 | 44.2 |
| 4/23/2015 | 10:13:45 | 56.43 | 54.93 | 814 | 0.31 | 0.34 | 44.5 |
| 4/23/2015 | 10:13:45 | 56.76 | 55.26 | 798 | 0.31 | 0.33 | 43.6 |
| 4/23/2015 | 10:13:45 | 56.93 | 55.43 | 798 | 0.31 | 0.33 | 43.6 |

## F29 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 10:11:35

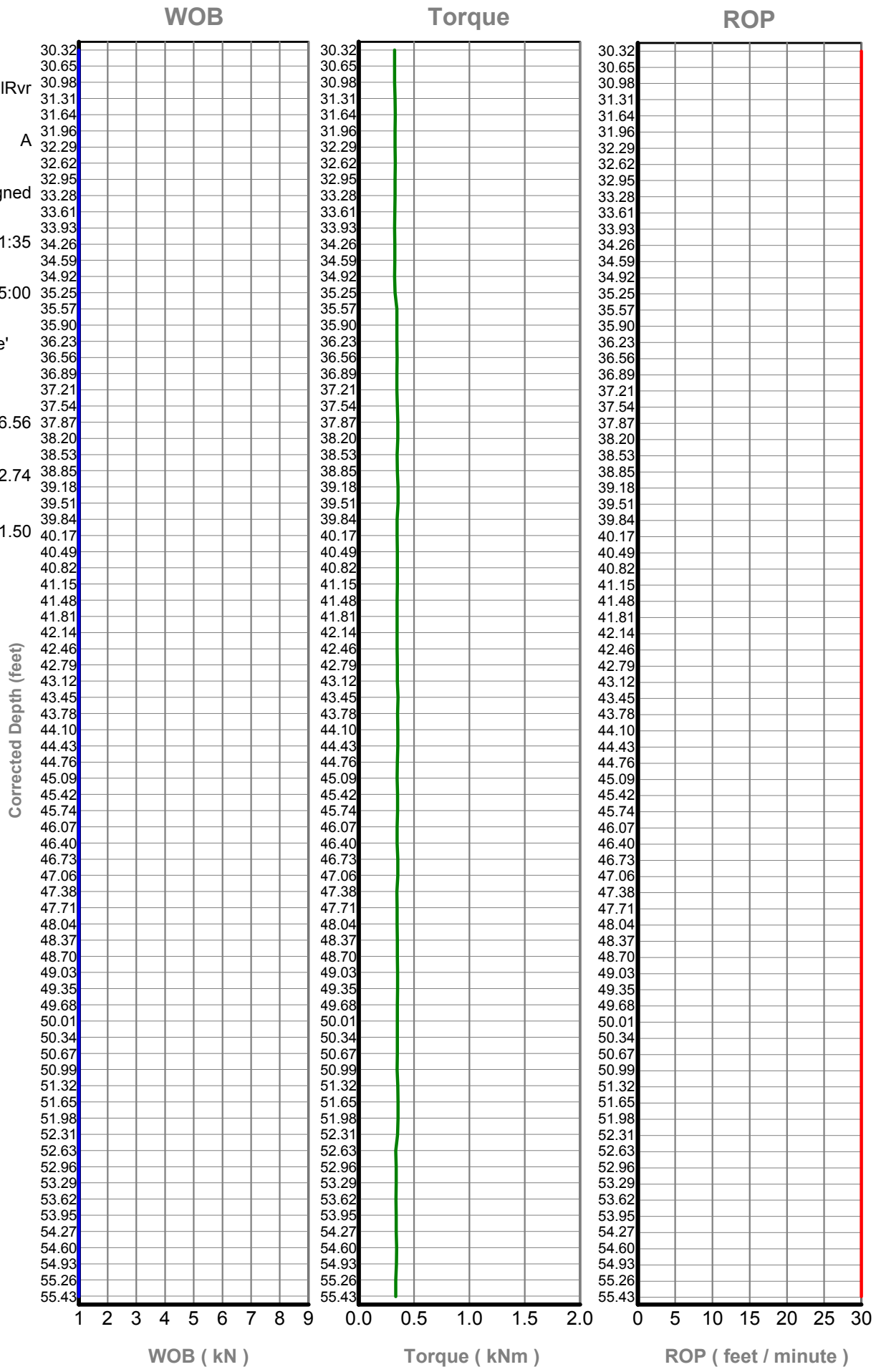
**End Date:**
4/23/2015 10:15:00

**Operator Note:**
'1.5 1.7 b Auto Complete'

**Northing:**
367,426.56

**Easting:**
251,592.74

**Tide (feet):**
1.50



## Hole: F3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:11:50 | 34.45 | 30.15 | 523 | 1.70 | 0.16 | 28.6 |
| 4/23/2015 2:11:50 | 34.78 | 30.48 | 520 | 1.72 | 0.16 | 28.5 |
| 4/23/2015 2:11:51 | 35.11 | 30.81 | 520 | 1.71 | 0.16 | 28.5 |
| 4/23/2015 2:11:52 | 35.43 | 31.13 | 523 | 1.74 | 0.16 | 28.6 |
| 4/23/2015 2:11:52 | 35.76 | 31.46 | 517 | 1.71 | 0.16 | 28.3 |
| 4/23/2015 2:11:53 | 36.09 | 31.79 | 511 | 1.70 | 0.16 | 28.0 |
| 4/23/2015 2:11:54 | 36.42 | 32.12 | 520 | 1.71 | 0.16 | 28.5 |
| 4/23/2015 2:11:54 | 36.75 | 32.45 | 517 | 1.74 | 0.16 | 28.3 |
| 4/23/2015 2:11:55 | 37.07 | 32.77 | 518 | 1.70 | 0.16 | 28.3 |
| 4/23/2015 2:11:56 | 37.40 | 33.10 | 523 | 1.70 | 0.17 | 28.6 |
| 4/23/2015 2:11:56 | 37.73 | 33.43 | 517 | 1.73 | 0.16 | 28.3 |
| 4/23/2015 2:11:57 | 38.06 | 33.76 | 514 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:11:58 | 38.39 | 34.09 | 520 | 1.72 | 0.16 | 28.4 |
| 4/23/2015 2:11:59 | 38.71 | 34.41 | 517 | 1.74 | 0.16 | 28.3 |
| 4/23/2015 2:12:00 | 39.04 | 34.74 | 517 | 1.70 | 0.16 | 28.3 |
| 4/23/2015 2:12:00 | 39.37 | 35.07 | 517 | 1.69 | 0.16 | 28.3 |
| 4/23/2015 2:12:01 | 39.70 | 35.40 | 517 | 1.67 | 0.16 | 28.3 |
| 4/23/2015 2:12:02 | 40.03 | 35.73 | 514 | 1.69 | 0.16 | 28.1 |
| 4/23/2015 2:12:02 | 40.35 | 36.05 | 520 | 1.68 | 0.17 | 28.5 |
| 4/23/2015 2:12:03 | 40.68 | 36.38 | 520 | 1.69 | 0.16 | 28.5 |
| 4/23/2015 2:12:04 | 41.01 | 36.71 | 517 | 1.69 | 0.16 | 28.3 |
| 4/23/2015 2:12:04 | 41.34 | 37.04 | 517 | 1.70 | 0.16 | 28.3 |
| 4/23/2015 2:12:05 | 41.67 | 37.37 | 517 | 1.72 | 0.16 | 28.3 |
| 4/23/2015 2:12:06 | 41.99 | 37.69 | 512 | 1.71 | 0.16 | 28.0 |
| 4/23/2015 2:12:06 | 42.32 | 38.02 | 517 | 1.67 | 0.16 | 28.3 |
| 4/23/2015 2:12:07 | 42.65 | 38.35 | 517 | 1.73 | 0.16 | 28.3 |
| 4/23/2015 2:12:08 | 42.98 | 38.68 | 515 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:12:08 | 43.31 | 39.01 | 517 | 1.67 | 0.16 | 28.3 |
| 4/23/2015 2:12:09 | 43.64 | 39.34 | 514 | 1.71 | 0.16 | 28.1 |
| 4/23/2015 2:12:10 | 43.96 | 39.66 | 512 | 1.70 | 0.16 | 28.0 |
| 4/23/2015 2:12:11 | 44.29 | 39.99 | 512 | 1.68 | 0.16 | 28.0 |
| 4/23/2015 2:12:11 | 44.62 | 40.32 | 515 | 1.70 | 0.17 | 28.1 |
| 4/23/2015 2:12:12 | 44.95 | 40.65 | 512 | 1.68 | 0.17 | 28.0 |
| 4/23/2015 2:12:13 | 45.28 | 40.98 | 518 | 1.70 | 0.16 | 28.3 |
| 4/23/2015 2:12:13 | 45.60 | 41.30 | 515 | 1.68 | 0.16 | 28.2 |
| 4/23/2015 2:12:14 | 45.93 | 41.63 | 512 | 1.68 | 0.16 | 28.0 |
| 4/23/2015 2:12:15 | 46.26 | 41.96 | 515 | 1.70 | 0.17 | 28.2 |
| 4/23/2015 2:12:15 | 46.59 | 42.29 | 509 | 1.69 | 0.16 | 27.8 |
| 4/23/2015 2:12:16 | 46.92 | 42.62 | 512 | 1.70 | 0.16 | 28.0 |
| 4/23/2015 2:12:17 | 47.24 | 42.94 | 517 | 1.70 | 0.16 | 28.3 |
| 4/23/2015 2:12:17 | 47.57 | 43.27 | 515 | 1.74 | 0.16 | 28.1 |
| 4/23/2015 2:12:18 | 47.90 | 43.60 | 515 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:12:19 | 48.23 | 43.93 | 515 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:12:20 | 48.56 | 44.26 | 512 | 1.69 | 0.16 | 28.0 |
| 4/23/2015 2:12:21 | 48.88 | 44.58 | 509 | 1.70 | 0.16 | 27.8 |
| 4/23/2015 2:12:21 | 49.21 | 44.91 | 515 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:12:22 | 49.54 | 45.24 | 512 | 1.71 | 0.16 | 28.0 |
| 4/23/2015 2:12:23 | 49.87 | 45.57 | 511 | 1.70 | 0.16 | 28.0 |
| 4/23/2015 2:12:23 | 50.20 | 45.90 | 514 | 1.70 | 0.16 | 28.1 |
| 4/23/2015 2:12:24 | 50.53 | 46.23 | 511 | 1.68 | 0.16 | 28.0 |
| 4/23/2015 2:13:10 | 50.85 | 46.55 | 22 | 1.72 | 1.03 | 1.2 |
| 4/23/2015 2:13:17 | 51.18 | 46.88 | 21 | 1.69 | 1.03 | 1.1 |
| 4/23/2015 2:13:18 | 51.51 | 47.21 | 157 | 1.70 | 1.06 | 8.6 |
| 4/23/2015 2:13:56 | 51.84 | 47.54 | 49 | 1.68 | 0.95 | 2.7 |
| 4/23/2015 2:13:57 | 52.17 | 47.87 | 134 | 1.69 | 0.95 | 7.3 |
| 4/23/2015 2:13:58 | 52.49 | 48.19 | 308 | 1.70 | 0.95 | 16.9 |
| 4/23/2015 2:13:58 | 52.82 | 48.52 | 397 | 1.66 | 0.95 | 21.7 |
| 4/23/2015 2:13:59 | 53.15 | 48.85 | 434 | 1.64 | 0.95 | 23.7 |
| 4/23/2015 2:14:03 | 53.48 | 49.18 | 59 | 1.66 | 0.95 | 3.2 |
| 4/23/2015 2:14:04 | 53.81 | 49.51 | 213 | 1.72 | 0.95 | 11.7 |
| 4/23/2015 2:14:08 | 54.13 | 49.83 | 84 | 1.68 | 1.05 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:14:09 | 54.46 | 50.16 | 209 | 1.69 | 1.22 | 11.4 |
| 4/23/2015 | 2:14:58 | 54.79 | 50.49 | 53 | 1.72 | 1.16 | 2.9 |
| 4/23/2015 | 2:15:14 | 55.12 | 50.82 | 0 | 1.67 | 0.93 | 0.0 |
| 4/23/2015 | 2:15:16 | 55.45 | 51.15 | 110 | 1.71 | 1.18 | 6.0 |
| 4/23/2015 | 2:15:17 | 55.77 | 51.47 | 210 | 1.67 | 0.93 | 11.5 |
| 4/23/2015 | 2:15:18 | 56.10 | 51.80 | 286 | 1.68 | 0.93 | 15.7 |
| 4/23/2015 | 2:15:19 | 56.43 | 52.13 | 333 | 1.69 | 0.94 | 18.2 |
| 4/23/2015 | 2:15:21 | 56.76 | 52.46 | 243 | 1.68 | 0.94 | 13.3 |
| 4/23/2015 | 2:15:24 | 57.09 | 52.79 | 97 | 1.68 | 0.94 | 5.3 |
| 4/23/2015 | 2:15:27 | 57.41 | 53.11 | 163 | 1.68 | 0.94 | 8.9 |
| 4/23/2015 | 2:15:28 | 57.74 | 53.44 | 173 | 1.65 | 0.97 | 9.5 |
| 4/23/2015 | 2:15:29 | 58.07 | 53.77 | 175 | 1.69 | 0.97 | 9.6 |
| 4/23/2015 | 2:15:30 | 58.40 | 54.10 | 308 | 1.69 | 1.09 | 16.8 |
| 4/23/2015 | 2:15:33 | 58.73 | 54.43 | 121 | 1.68 | 1.13 | 6.6 |
| 4/23/2015 | 2:15:34 | 59.04 | 54.74 | 174 | 1.69 | 1.09 | 9.5 |

## F3 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:09:49

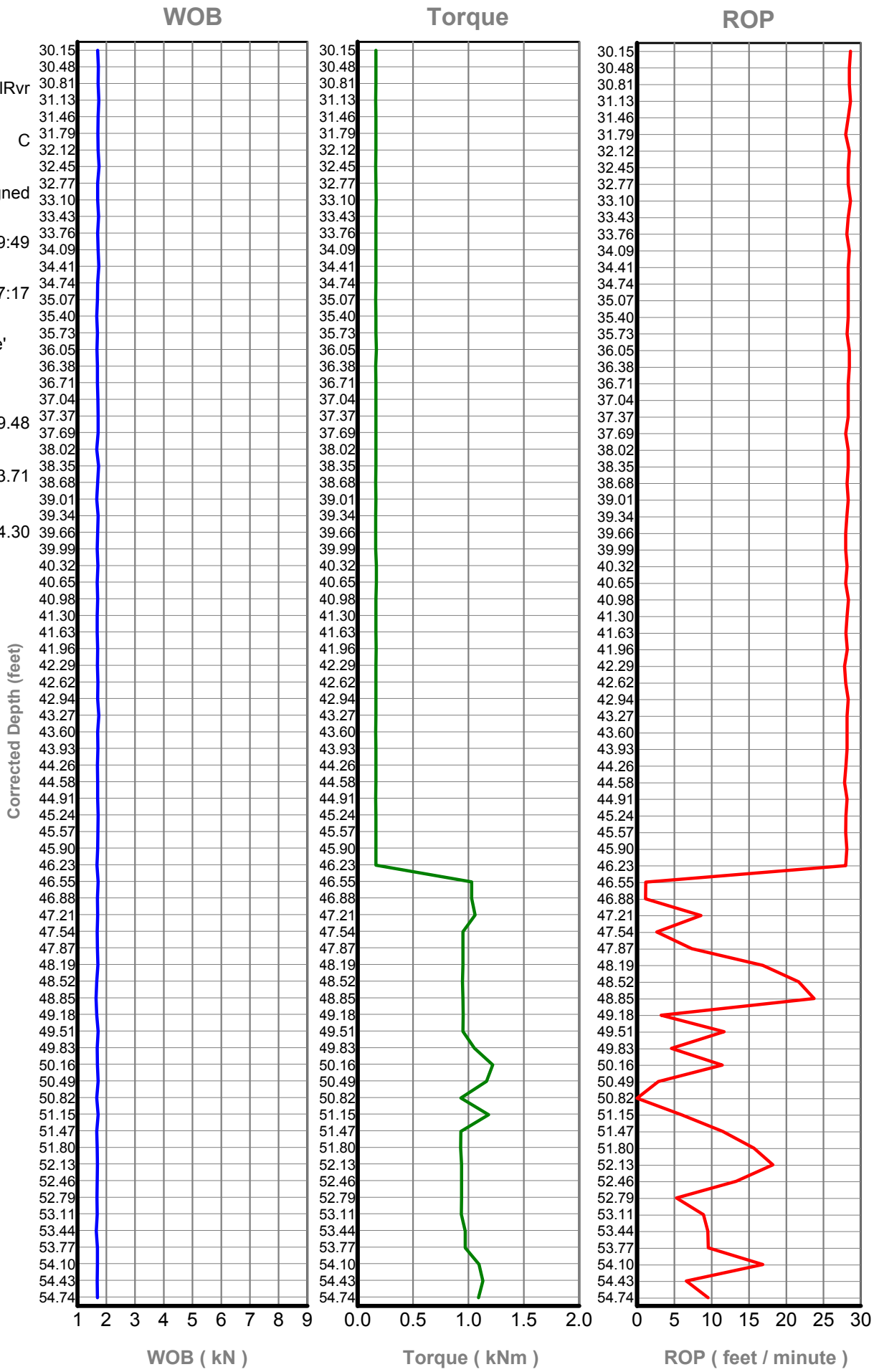
**End Date:**
4/23/2015 2:17:17

**Operator Note:**
'4.3 3.9 c Auto Complete'

**Northing:**
367,719.48

**Easting:**
251,713.71

**Tide (feet):**
4.30



## Hole: F30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 10:09:34 | 31.82 | 30.12 | 954 | 0.31 | 0.32 | 52.2 |
| 4/23/2015 10:09:35 | 32.15 | 30.45 | 954 | 0.31 | 0.32 | 52.2 |
| 4/23/2015 10:09:35 | 32.48 | 30.78 | 963 | 0.32 | 0.32 | 52.6 |
| 4/23/2015 10:09:35 | 32.81 | 31.11 | 968 | 0.31 | 0.32 | 52.9 |
| 4/23/2015 10:09:36 | 33.14 | 31.44 | 968 | 0.31 | 0.32 | 52.9 |
| 4/23/2015 10:09:36 | 33.46 | 31.76 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 10:09:36 | 33.79 | 32.09 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 10:09:37 | 34.12 | 32.42 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 10:09:37 | 34.45 | 32.75 | 980 | 0.32 | 0.32 | 53.6 |
| 4/23/2015 10:09:37 | 34.78 | 33.08 | 956 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 10:09:38 | 35.11 | 33.41 | 956 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 10:09:38 | 35.43 | 33.73 | 956 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 10:09:38 | 35.76 | 34.06 | 961 | 0.31 | 0.32 | 52.5 |
| 4/23/2015 10:09:39 | 36.09 | 34.39 | 961 | 0.31 | 0.32 | 52.5 |
| 4/23/2015 10:09:40 | 36.42 | 34.72 | 961 | 0.31 | 0.32 | 52.5 |
| 4/23/2015 10:09:39 | 36.75 | 35.05 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 10:09:40 | 37.07 | 35.37 | 948 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 10:09:40 | 37.40 | 35.70 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 10:09:41 | 37.73 | 36.03 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 10:09:41 | 38.06 | 36.36 | 967 | 0.32 | 0.32 | 52.9 |
| 4/23/2015 10:09:42 | 38.39 | 36.69 | 968 | 0.32 | 0.31 | 52.9 |
| 4/23/2015 10:09:42 | 38.71 | 37.01 | 968 | 0.32 | 0.31 | 52.9 |
| 4/23/2015 10:09:42 | 39.04 | 37.34 | 958 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 10:09:43 | 39.37 | 37.67 | 981 | 0.32 | 0.32 | 53.7 |
| 4/23/2015 10:09:43 | 39.70 | 38.00 | 987 | 0.31 | 0.32 | 54.0 |
| 4/23/2015 10:09:44 | 40.03 | 38.33 | 987 | 0.31 | 0.32 | 54.0 |
| 4/23/2015 10:09:44 | 40.35 | 38.65 | 981 | 0.32 | 0.32 | 53.7 |
| 4/23/2015 10:09:44 | 40.68 | 38.98 | 947 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 10:09:45 | 41.01 | 39.31 | 947 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 10:09:45 | 41.34 | 39.64 | 952 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 10:09:45 | 41.67 | 39.97 | 952 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 10:09:46 | 41.99 | 40.29 | 963 | 0.32 | 0.31 | 52.6 |
| 4/23/2015 10:09:46 | 42.32 | 40.62 | 963 | 0.32 | 0.31 | 52.6 |
| 4/23/2015 10:09:46 | 42.65 | 40.95 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 10:09:47 | 42.98 | 41.28 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 10:09:47 | 43.31 | 41.61 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 10:09:47 | 43.64 | 41.94 | 960 | 0.32 | 0.32 | 52.5 |
| 4/23/2015 10:09:48 | 43.96 | 42.26 | 957 | 0.34 | 0.32 | 52.4 |
| 4/23/2015 10:09:48 | 44.29 | 42.59 | 952 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 10:09:49 | 44.62 | 42.92 | 952 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 10:09:49 | 44.95 | 43.25 | 961 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 10:09:49 | 45.28 | 43.58 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 10:09:50 | 45.60 | 43.90 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 10:09:50 | 45.93 | 44.23 | 948 | 0.33 | 0.34 | 51.8 |
| 4/23/2015 10:09:50 | 46.26 | 44.56 | 962 | 0.32 | 0.32 | 52.6 |
| 4/23/2015 10:09:51 | 46.59 | 44.89 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 10:09:52 | 46.92 | 45.22 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 10:09:51 | 47.24 | 45.54 | 957 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 10:09:52 | 47.57 | 45.87 | 957 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 10:09:53 | 47.90 | 46.20 | 957 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 10:09:53 | 48.23 | 46.53 | 959 | 0.32 | 0.32 | 52.5 |
| 4/23/2015 10:09:53 | 48.56 | 46.86 | 975 | 0.32 | 0.33 | 53.3 |
| 4/23/2015 10:09:54 | 48.88 | 47.18 | 975 | 0.32 | 0.33 | 53.3 |
| 4/23/2015 10:09:54 | 49.21 | 47.51 | 967 | 0.32 | 0.32 | 52.9 |
| 4/23/2015 10:09:54 | 49.54 | 47.84 | 967 | 0.32 | 0.32 | 52.9 |
| 4/23/2015 10:09:55 | 49.87 | 48.17 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 10:09:55 | 50.20 | 48.50 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 10:09:55 | 50.53 | 48.83 | 968 | 0.32 | 0.32 | 52.9 |
| 4/23/2015 10:09:56 | 50.85 | 49.15 | 964 | 0.31 | 0.32 | 52.7 |
| 4/23/2015 10:09:56 | 51.18 | 49.48 | 964 | 0.31 | 0.32 | 52.7 |
| 4/23/2015 10:09:56 | 51.51 | 49.81 | 953 | 0.32 | 0.32 | 52.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 10:09:57 | 51.84 | 50.14 | 960 | 0.32 | 0.34 | 52.5 |
| 4/23/2015 | 10:09:57 | 52.17 | 50.47 | 960 | 0.31 | 0.34 | 52.5 |
| 4/23/2015 | 10:09:58 | 52.49 | 50.79 | 960 | 0.31 | 0.34 | 52.5 |
| 4/23/2015 | 10:09:58 | 52.82 | 51.12 | 917 | 0.31 | 0.34 | 50.1 |
| 4/23/2015 | 10:09:58 | 53.15 | 51.45 | 917 | 0.31 | 0.35 | 50.1 |
| 4/23/2015 | 10:10:04 | 53.48 | 51.78 | 20 | 2.38 | 0.34 | 1.1 |
| 4/23/2015 | 10:10:05 | 53.81 | 52.11 | 20 | 3.24 | 0.37 | 1.1 |
| 4/23/2015 | 10:10:06 | 54.13 | 52.43 | 211 | 3.60 | 0.40 | 11.5 |
| 4/23/2015 | 10:10:09 | 54.46 | 52.76 | 118 | 3.65 | 0.37 | 6.5 |
| 4/23/2015 | 10:10:10 | 54.79 | 53.09 | 158 | 3.28 | 0.35 | 8.7 |
| 4/23/2015 | 10:10:10 | 55.12 | 53.42 | 261 | 3.49 | 0.35 | 14.3 |
| 4/23/2015 | 10:10:11 | 55.45 | 53.75 | 361 | 3.18 | 0.35 | 19.8 |
| 4/23/2015 | 10:10:11 | 55.77 | 54.07 | 467 | 2.84 | 0.34 | 25.5 |
| 4/23/2015 | 10:10:12 | 56.10 | 54.40 | 605 | 2.57 | 0.35 | 33.1 |
| 4/23/2015 | 10:10:13 | 56.43 | 54.73 | 682 | 2.57 | 0.35 | 37.3 |
| 4/23/2015 | 10:10:13 | 56.76 | 55.06 | 697 | 2.63 | 0.32 | 38.1 |

## F30 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 10:07:39

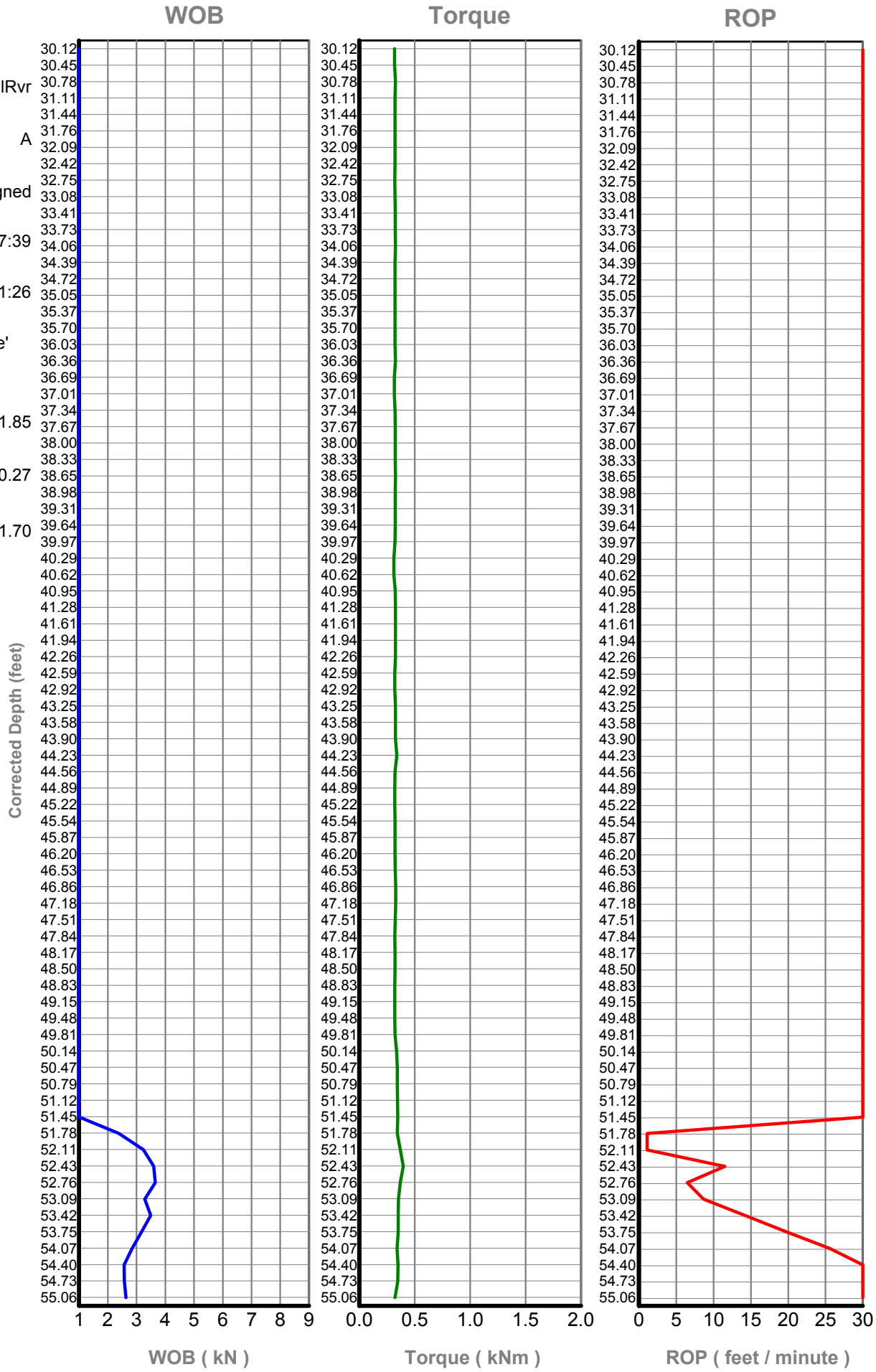
**End Date:**
4/23/2015 10:11:26

**Operator Note:**
'1.7 1.7 b Auto Complete'

**Northing:**
367,461.85

**Easting:**
251,640.27

**Tide (feet):**
1.70



## Hole: F31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 10:11:04 | 31.82 | 30.32 | 411 | 1.60 | 0.31 | 22.5 |
| 4/23/2015 10:11:05 | 32.15 | 30.65 | 409 | 1.60 | 0.31 | 22.4 |
| 4/23/2015 10:11:06 | 32.48 | 30.98 | 423 | 1.60 | 0.30 | 23.1 |
| 4/23/2015 10:11:07 | 32.81 | 31.31 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:08 | 33.14 | 31.64 | 411 | 1.59 | 0.31 | 22.5 |
| 4/23/2015 10:11:08 | 33.46 | 31.96 | 413 | 1.59 | 0.30 | 22.6 |
| 4/23/2015 10:11:09 | 33.79 | 32.29 | 405 | 1.60 | 0.30 | 22.2 |
| 4/23/2015 10:11:10 | 34.12 | 32.62 | 406 | 1.60 | 0.30 | 22.2 |
| 4/23/2015 10:11:11 | 34.45 | 32.95 | 416 | 1.61 | 0.30 | 22.7 |
| 4/23/2015 10:11:12 | 34.78 | 33.28 | 403 | 1.59 | 0.30 | 22.0 |
| 4/23/2015 10:11:13 | 35.11 | 33.61 | 410 | 1.59 | 0.30 | 22.4 |
| 4/23/2015 10:11:13 | 35.43 | 33.93 | 410 | 1.59 | 0.30 | 22.4 |
| 4/23/2015 10:11:15 | 35.76 | 34.26 | 405 | 1.58 | 0.30 | 22.2 |
| 4/23/2015 10:11:16 | 36.09 | 34.59 | 412 | 1.59 | 0.30 | 22.5 |
| 4/23/2015 10:11:16 | 36.42 | 34.92 | 410 | 1.60 | 0.30 | 22.4 |
| 4/23/2015 10:11:17 | 36.75 | 35.25 | 420 | 1.59 | 0.30 | 23.0 |
| 4/23/2015 10:11:18 | 37.07 | 35.57 | 406 | 1.60 | 0.30 | 22.2 |
| 4/23/2015 10:11:19 | 37.40 | 35.90 | 406 | 1.58 | 0.30 | 22.2 |
| 4/23/2015 10:11:20 | 37.73 | 36.23 | 409 | 1.59 | 0.30 | 22.4 |
| 4/23/2015 10:11:21 | 38.06 | 36.56 | 398 | 1.61 | 0.29 | 21.7 |
| 4/23/2015 10:11:21 | 38.39 | 36.89 | 400 | 1.59 | 0.30 | 21.9 |
| 4/23/2015 10:11:22 | 38.71 | 37.21 | 412 | 1.62 | 0.28 | 22.5 |
| 4/23/2015 10:11:23 | 39.04 | 37.54 | 406 | 1.62 | 0.30 | 22.2 |
| 4/23/2015 10:11:24 | 39.37 | 37.87 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:25 | 39.70 | 38.20 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:26 | 40.03 | 38.53 | 419 | 1.59 | 0.30 | 22.9 |
| 4/23/2015 10:11:27 | 40.35 | 38.85 | 412 | 1.58 | 0.30 | 22.5 |
| 4/23/2015 10:11:28 | 40.68 | 39.18 | 409 | 1.62 | 0.30 | 22.3 |
| 4/23/2015 10:11:29 | 41.01 | 39.51 | 409 | 1.60 | 0.30 | 22.3 |
| 4/23/2015 10:11:29 | 41.34 | 39.84 | 404 | 1.60 | 0.30 | 22.1 |
| 4/23/2015 10:11:30 | 41.67 | 40.17 | 401 | 1.60 | 0.30 | 21.9 |
| 4/23/2015 10:11:31 | 41.99 | 40.49 | 408 | 1.60 | 0.30 | 22.3 |
| 4/23/2015 10:11:32 | 42.32 | 40.82 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:33 | 42.65 | 41.15 | 403 | 1.59 | 0.30 | 22.0 |
| 4/23/2015 10:11:34 | 42.98 | 41.48 | 402 | 1.61 | 0.30 | 22.0 |
| 4/23/2015 10:11:34 | 43.31 | 41.81 | 402 | 1.58 | 0.30 | 22.0 |
| 4/23/2015 10:11:35 | 43.64 | 42.14 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:37 | 43.96 | 42.46 | 415 | 1.59 | 0.30 | 22.7 |
| 4/23/2015 10:11:37 | 44.29 | 42.79 | 418 | 1.57 | 0.30 | 22.8 |
| 4/23/2015 10:11:38 | 44.62 | 43.12 | 411 | 1.57 | 0.30 | 22.5 |
| 4/23/2015 10:11:39 | 44.95 | 43.45 | 399 | 1.61 | 0.30 | 21.8 |
| 4/23/2015 10:11:40 | 45.28 | 43.78 | 399 | 1.60 | 0.30 | 21.8 |
| 4/23/2015 10:11:41 | 45.60 | 44.10 | 405 | 1.60 | 0.30 | 22.2 |
| 4/23/2015 10:11:42 | 45.93 | 44.43 | 395 | 1.59 | 0.30 | 21.6 |
| 4/23/2015 10:11:42 | 46.26 | 44.76 | 395 | 1.59 | 0.30 | 21.6 |
| 4/23/2015 10:11:43 | 46.59 | 45.09 | 410 | 1.59 | 0.30 | 22.4 |
| 4/23/2015 10:11:44 | 46.92 | 45.42 | 407 | 1.59 | 0.30 | 22.3 |
| 4/23/2015 10:11:45 | 47.24 | 45.74 | 409 | 1.59 | 0.30 | 22.4 |
| 4/23/2015 10:11:46 | 47.57 | 46.07 | 406 | 1.59 | 0.30 | 22.2 |
| 4/23/2015 10:11:47 | 47.90 | 46.40 | 402 | 1.59 | 0.30 | 22.0 |
| 4/23/2015 10:11:48 | 48.23 | 46.73 | 408 | 1.59 | 0.30 | 22.3 |
| 4/23/2015 10:11:49 | 48.56 | 47.06 | 412 | 1.59 | 0.30 | 22.5 |
| 4/23/2015 10:11:50 | 48.88 | 47.38 | 402 | 1.58 | 0.30 | 22.0 |
| 4/23/2015 10:11:50 | 49.21 | 47.71 | 402 | 1.60 | 0.30 | 22.0 |
| 4/23/2015 10:11:51 | 49.54 | 48.04 | 403 | 1.60 | 0.30 | 22.0 |
| 4/23/2015 10:11:52 | 49.87 | 48.37 | 417 | 1.60 | 0.30 | 22.8 |
| 4/23/2015 10:11:53 | 50.20 | 48.70 | 410 | 1.61 | 0.30 | 22.4 |
| 4/23/2015 10:11:54 | 50.53 | 49.03 | 410 | 1.59 | 0.31 | 22.4 |
| 4/23/2015 10:11:55 | 50.85 | 49.35 | 396 | 1.61 | 0.31 | 21.7 |
| 4/23/2015 10:11:56 | 51.18 | 49.68 | 385 | 1.60 | 0.30 | 21.1 |
| 4/23/2015 10:11:57 | 51.51 | 50.01 | 373 | 1.59 | 0.30 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 10:11:58 | 51.84 | 50.34 | 364 | 1.58 | 0.30 | 19.9 |
| 4/23/2015 | 10:12:00 | 52.17 | 50.67 | 222 | 1.59 | 0.30 | 12.1 |
| 4/23/2015 | 10:12:02 | 52.49 | 50.99 | 99 | 1.60 | 1.04 | 5.4 |
| 4/23/2015 | 10:12:04 | 52.82 | 51.32 | 159 | 1.59 | 1.07 | 8.7 |
| 4/23/2015 | 10:12:05 | 53.15 | 51.65 | 201 | 1.59 | 1.08 | 11.0 |
| 4/23/2015 | 10:12:07 | 53.48 | 51.98 | 255 | 1.60 | 1.09 | 14.0 |
| 4/23/2015 | 10:12:08 | 53.81 | 52.31 | 268 | 1.59 | 1.10 | 14.7 |
| 4/23/2015 | 10:12:10 | 54.13 | 52.63 | 275 | 1.62 | 1.08 | 15.0 |
| 4/23/2015 | 10:12:11 | 54.46 | 52.96 | 281 | 1.59 | 1.09 | 15.4 |
| 4/23/2015 | 10:12:12 | 54.79 | 53.29 | 270 | 1.59 | 1.07 | 14.8 |
| 4/23/2015 | 10:12:13 | 55.12 | 53.62 | 270 | 1.60 | 1.07 | 14.7 |
| 4/23/2015 | 10:12:15 | 55.45 | 53.95 | 277 | 1.60 | 1.06 | 15.1 |
| 4/23/2015 | 10:12:16 | 55.77 | 54.27 | 268 | 1.59 | 1.06 | 14.7 |
| 4/23/2015 | 10:12:18 | 56.10 | 54.60 | 272 | 1.60 | 1.07 | 14.9 |
| 4/23/2015 | 10:12:19 | 56.43 | 54.93 | 271 | 1.59 | 1.07 | 14.8 |
| 4/23/2015 | 10:12:20 | 56.76 | 55.26 | 272 | 1.59 | 1.13 | 14.9 |
| 4/23/2015 | 10:12:21 | 57.09 | 55.59 | 268 | 1.61 | 1.09 | 14.6 |
| 4/23/2015 | 10:12:23 | 57.41 | 55.91 | 260 | 1.59 | 1.07 | 14.2 |
| 4/23/2015 | 10:12:23 | 57.45 | 55.95 | 260 | 1.59 | 1.07 | 14.2 |

## F31 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 10:09:05

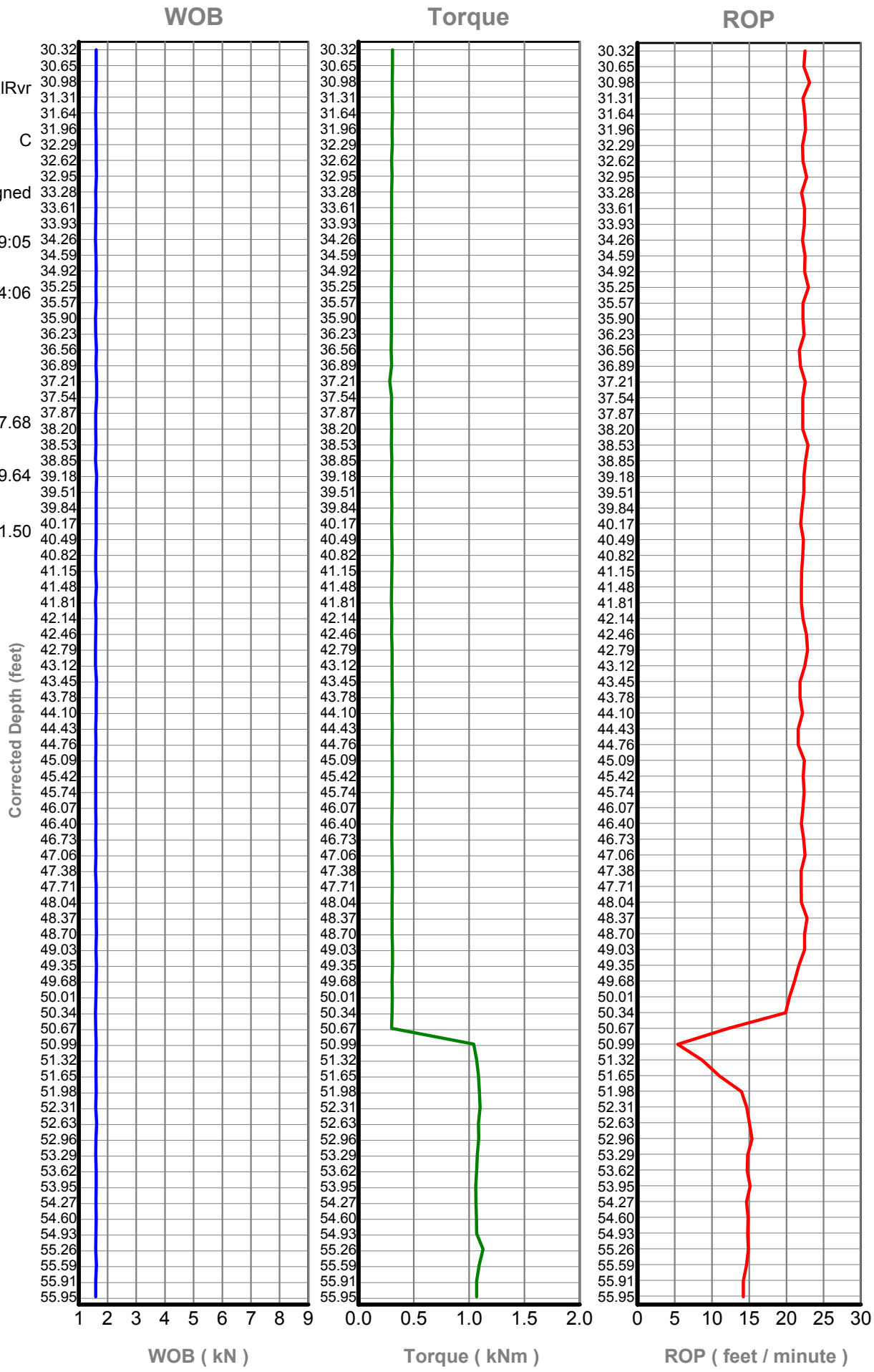
**End Date:**
4/23/2015 10:14:06

**Operator Note:**
'1.5 1.7 C Auto Complete'

**Northing:**
367,507.68

**Easting:**
251,699.64

**Tide (feet):**
1.50



## Hole: F32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:08:26 | 35.43 | 30.13 | 877 | 0.20 | 0.33 | 48.0 |
| 4/23/2015 3:08:26 | 35.76 | 30.46 | 877 | 0.20 | 0.33 | 48.0 |
| 4/23/2015 3:08:26 | 36.09 | 30.79 | 885 | 0.20 | 0.32 | 48.4 |
| 4/23/2015 3:08:27 | 36.42 | 31.12 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 3:08:27 | 36.75 | 31.45 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 3:08:28 | 37.07 | 31.77 | 874 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:08:28 | 37.40 | 32.10 | 874 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:08:28 | 37.73 | 32.43 | 890 | 0.20 | 0.33 | 48.6 |
| 4/23/2015 3:08:50 | 38.06 | 32.76 | 1 | 0.92 | 0.32 | 0.1 |
| 4/23/2015 3:08:51 | 38.39 | 33.09 | 57 | 0.19 | 0.33 | 3.1 |
| 4/23/2015 3:08:51 | 38.71 | 33.41 | 57 | 0.19 | 0.32 | 3.1 |
| 4/23/2015 3:08:52 | 39.04 | 33.74 | 57 | 0.19 | 0.32 | 3.1 |
| 4/23/2015 3:08:52 | 39.37 | 34.07 | 244 | 0.18 | 0.33 | 13.3 |
| 4/23/2015 3:08:56 | 39.70 | 34.40 | 37 | 0.18 | 0.33 | 2.0 |
| 4/23/2015 3:08:57 | 40.03 | 34.73 | 214 | 0.19 | 0.33 | 11.7 |
| 4/23/2015 3:08:57 | 40.35 | 35.05 | 388 | 0.20 | 0.33 | 21.2 |
| 4/23/2015 3:08:58 | 40.68 | 35.38 | 388 | 0.20 | 0.33 | 21.2 |
| 4/23/2015 3:08:58 | 41.01 | 35.71 | 562 | 0.20 | 0.33 | 30.7 |
| 4/23/2015 3:08:58 | 41.34 | 36.04 | 742 | 0.19 | 0.33 | 40.6 |
| 4/23/2015 3:08:59 | 41.67 | 36.37 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 3:08:59 | 41.99 | 36.69 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 3:08:59 | 42.32 | 37.02 | 876 | 0.19 | 0.33 | 47.9 |
| 4/23/2015 3:09:00 | 42.65 | 37.35 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 3:09:20 | 42.98 | 37.68 | 0 | 0.20 | 0.33 | 0.0 |
| 4/23/2015 3:09:21 | 43.31 | 38.01 | 130 | 0.20 | 0.33 | 7.1 |
| 4/23/2015 3:09:21 | 43.64 | 38.34 | 130 | 0.20 | 0.33 | 7.1 |
| 4/23/2015 3:09:21 | 43.96 | 38.66 | 303 | 0.20 | 0.33 | 16.6 |
| 4/23/2015 3:09:22 | 44.29 | 38.99 | 485 | 0.19 | 0.33 | 26.5 |
| 4/23/2015 3:09:22 | 44.62 | 39.32 | 659 | 0.20 | 0.33 | 36.1 |
| 4/23/2015 3:09:23 | 44.95 | 39.65 | 831 | 0.21 | 0.33 | 45.4 |
| 4/23/2015 3:09:23 | 45.28 | 39.98 | 831 | 0.21 | 0.33 | 45.4 |
| 4/23/2015 3:09:23 | 45.60 | 40.30 | 860 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 3:09:24 | 45.93 | 40.63 | 860 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 3:09:24 | 46.26 | 40.96 | 866 | 0.19 | 0.34 | 47.3 |
| 4/23/2015 3:09:25 | 46.59 | 41.29 | 858 | 0.19 | 0.33 | 46.9 |
| 4/23/2015 3:09:25 | 46.92 | 41.62 | 858 | 0.19 | 0.33 | 46.9 |
| 4/23/2015 3:09:25 | 47.24 | 41.94 | 858 | 0.18 | 0.33 | 46.9 |
| 4/23/2015 3:09:26 | 47.57 | 42.27 | 869 | 0.19 | 0.33 | 47.5 |
| 4/23/2015 3:09:26 | 47.90 | 42.60 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 3:09:27 | 48.23 | 42.93 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 3:09:27 | 48.56 | 43.26 | 867 | 0.24 | 0.33 | 47.4 |
| 4/23/2015 3:09:28 | 48.88 | 43.58 | 856 | 0.20 | 0.33 | 46.8 |
| 4/23/2015 3:09:28 | 49.21 | 43.91 | 856 | 0.19 | 0.33 | 46.8 |
| 4/23/2015 3:09:29 | 49.54 | 44.24 | 865 | 0.19 | 0.33 | 47.3 |
| 4/23/2015 3:09:29 | 49.87 | 44.57 | 865 | 0.19 | 0.33 | 47.3 |
| 4/23/2015 3:09:29 | 50.20 | 44.90 | 855 | 0.20 | 0.33 | 46.8 |
| 4/23/2015 3:09:30 | 50.53 | 45.23 | 855 | 0.19 | 0.32 | 46.8 |
| 4/23/2015 3:09:30 | 50.85 | 45.55 | 863 | 0.20 | 0.33 | 47.2 |
| 4/23/2015 3:09:31 | 51.18 | 45.88 | 866 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:09:31 | 51.51 | 46.21 | 866 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:09:31 | 51.84 | 46.54 | 866 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:09:32 | 52.17 | 46.87 | 868 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 3:09:32 | 52.49 | 47.19 | 868 | 0.15 | 0.33 | 47.5 |
| 4/23/2015 3:09:33 | 52.82 | 47.52 | 868 | 0.15 | 0.33 | 47.5 |
| 4/23/2015 3:09:33 | 53.15 | 47.85 | 862 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 3:09:33 | 53.48 | 48.18 | 862 | 0.19 | 0.33 | 47.1 |
| 4/23/2015 3:09:34 | 53.81 | 48.51 | 876 | 0.18 | 0.37 | 47.9 |
| 4/23/2015 3:12:07 | 54.13 | 48.83 | 3 | 4.43 | 0.38 | 0.2 |
| 4/23/2015 3:12:08 | 54.46 | 49.16 | 113 | 3.16 | 0.37 | 6.2 |
| 4/23/2015 3:12:10 | 54.79 | 49.49 | 200 | 4.89 | 0.40 | 10.9 |
| 4/23/2015 3:12:12 | 55.12 | 49.82 | 162 | 2.85 | 0.37 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 3:12:14 | 55.45 | 50.15 | 208 | 3.97 | 0.38 | 11.4 |
| 4/23/2015 | 3:12:16 | 55.77 | 50.47 | 173 | 3.42 | 0.38 | 9.4 |
| 4/23/2015 | 3:12:18 | 56.10 | 50.80 | 212 | 3.88 | 0.40 | 11.6 |
| 4/23/2015 | 3:12:20 | 56.43 | 51.13 | 150 | 3.88 | 0.40 | 8.2 |
| 4/23/2015 | 3:12:23 | 56.76 | 51.46 | 118 | 4.81 | 0.39 | 6.5 |
| 4/23/2015 | 3:12:25 | 57.09 | 51.79 | 154 | 3.75 | 0.37 | 8.4 |
| 4/23/2015 | 3:12:27 | 57.41 | 52.11 | 225 | 4.36 | 0.39 | 12.3 |
| 4/23/2015 | 3:12:31 | 57.74 | 52.44 | 70 | 4.32 | 0.38 | 3.8 |
| 4/23/2015 | 3:12:33 | 58.07 | 52.77 | 146 | 3.70 | 0.39 | 8.0 |
| 4/23/2015 | 3:12:37 | 58.40 | 53.10 | 104 | 3.55 | 0.39 | 5.7 |
| 4/23/2015 | 3:12:38 | 58.73 | 53.43 | 125 | 3.19 | 0.38 | 6.8 |
| 4/23/2015 | 3:12:40 | 59.06 | 53.76 | 224 | 3.91 | 0.38 | 12.3 |
| 4/23/2015 | 3:12:43 | 59.38 | 54.08 | 94 | 3.36 | 0.40 | 5.2 |
| 4/23/2015 | 3:12:54 | 59.71 | 54.41 | 31 | 2.85 | 0.40 | 1.7 |
| 4/23/2015 | 3:13:04 | 60.04 | 54.74 | 14 | 3.48 | 0.40 | 0.8 |

## F32 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:03:59

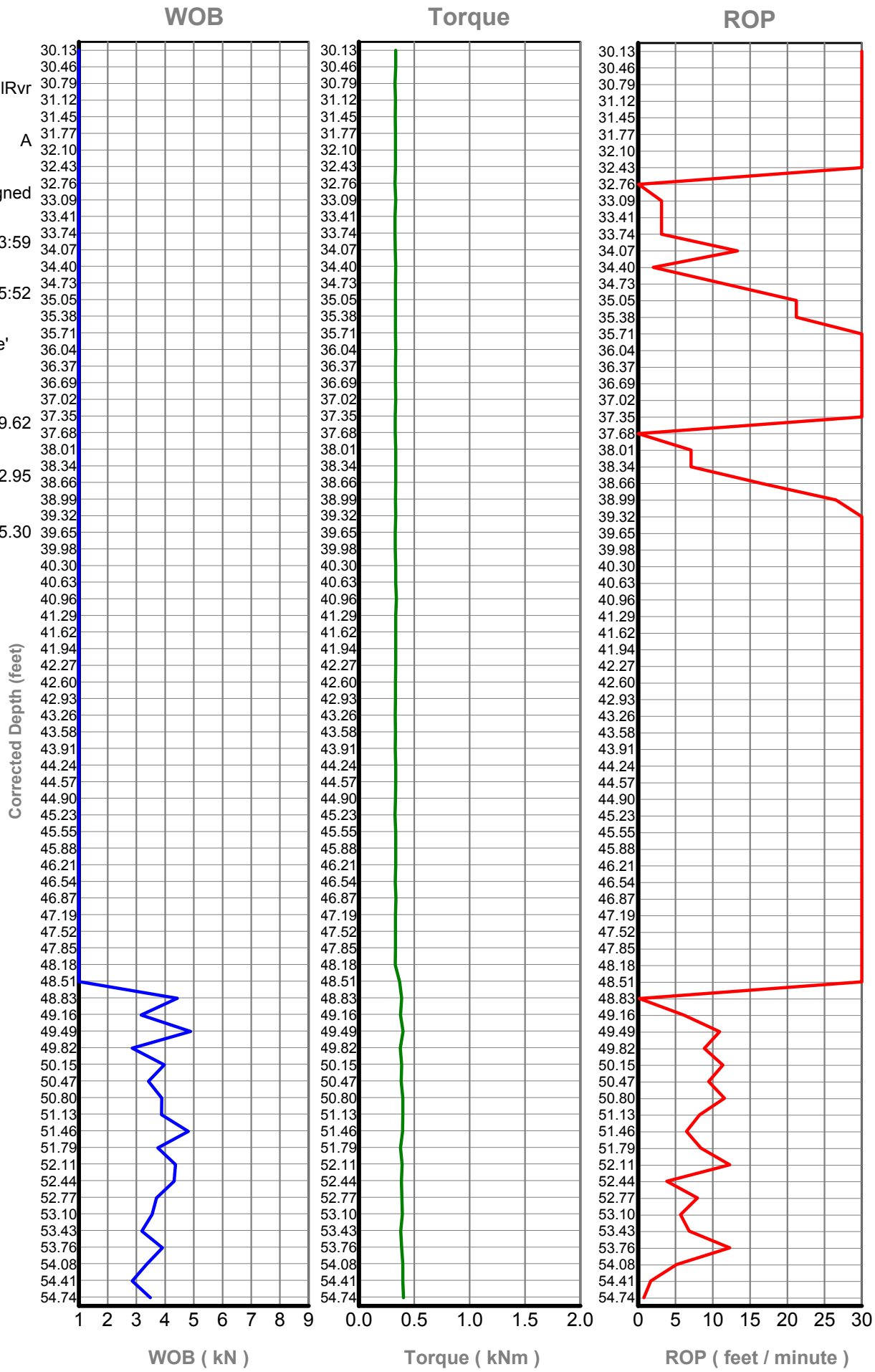
**End Date:**
4/23/2015 3:15:52

**Operator Note:**
'5.3 5.1 b Auto Complete'

**Northing:**
367,569.62

**Easting:**
251,762.95

**Tide (feet):**
5.30



## Hole: F33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:58:23 | 35.11 | 30.01 | 954 | 1.09 | 0.36 | 52.2 |
| 4/23/2015 2:58:24 | 35.43 | 30.33 | 951 | 1.08 | 0.36 | 52.0 |
| 4/23/2015 2:58:24 | 35.76 | 30.66 | 945 | 1.09 | 0.36 | 51.7 |
| 4/23/2015 2:58:25 | 36.09 | 30.99 | 945 | 1.09 | 0.36 | 51.7 |
| 4/23/2015 2:58:25 | 36.42 | 31.32 | 942 | 1.09 | 0.36 | 51.5 |
| 4/23/2015 2:58:25 | 36.75 | 31.65 | 942 | 1.08 | 0.36 | 51.5 |
| 4/23/2015 2:58:26 | 37.07 | 31.97 | 934 | 1.00 | 0.32 | 51.1 |
| 4/23/2015 2:58:26 | 37.40 | 32.30 | 934 | 1.00 | 0.32 | 51.1 |
| 4/23/2015 2:58:26 | 37.73 | 32.63 | 936 | 1.06 | 0.32 | 51.2 |
| 4/23/2015 2:58:27 | 38.06 | 32.96 | 921 | 1.06 | 0.32 | 50.4 |
| 4/23/2015 2:58:27 | 38.39 | 33.29 | 921 | 1.02 | 0.32 | 50.4 |
| 4/23/2015 2:58:28 | 38.71 | 33.61 | 921 | 1.02 | 0.32 | 50.4 |
| 4/23/2015 2:58:28 | 39.04 | 33.94 | 921 | 1.05 | 0.32 | 50.4 |
| 4/23/2015 2:58:28 | 39.37 | 34.27 | 921 | 1.08 | 0.32 | 50.4 |
| 4/23/2015 2:58:29 | 39.70 | 34.60 | 921 | 1.08 | 0.32 | 50.4 |
| 4/23/2015 2:58:29 | 40.03 | 34.93 | 929 | 1.08 | 0.32 | 50.8 |
| 4/23/2015 2:58:29 | 40.35 | 35.25 | 914 | 1.07 | 0.33 | 50.0 |
| 4/23/2015 2:58:30 | 40.68 | 35.58 | 914 | 1.08 | 0.33 | 50.0 |
| 4/23/2015 2:58:31 | 41.01 | 35.91 | 914 | 1.08 | 0.33 | 50.0 |
| 4/23/2015 2:58:30 | 41.34 | 36.24 | 909 | 1.07 | 0.33 | 49.7 |
| 4/23/2015 2:58:31 | 41.67 | 36.57 | 909 | 1.07 | 0.32 | 49.7 |
| 4/23/2015 2:58:32 | 41.99 | 36.89 | 929 | 1.06 | 0.32 | 50.8 |
| 4/23/2015 2:58:32 | 42.32 | 37.22 | 929 | 1.06 | 0.32 | 50.8 |
| 4/23/2015 2:58:32 | 42.65 | 37.55 | 923 | 1.07 | 0.32 | 50.5 |
| 4/23/2015 2:58:33 | 42.98 | 37.88 | 900 | 0.18 | 0.33 | 49.2 |
| 4/23/2015 2:58:33 | 43.31 | 38.21 | 926 | 0.19 | 0.32 | 50.7 |
| 4/23/2015 2:58:34 | 43.64 | 38.54 | 926 | 0.19 | 0.32 | 50.7 |
| 4/23/2015 2:58:34 | 43.96 | 38.86 | 943 | 0.19 | 0.32 | 51.5 |
| 4/23/2015 2:58:34 | 44.29 | 39.19 | 939 | 0.19 | 0.32 | 51.3 |
| 4/23/2015 2:58:35 | 44.62 | 39.52 | 939 | 0.19 | 0.32 | 51.3 |
| 4/23/2015 2:58:35 | 44.95 | 39.85 | 962 | 0.19 | 0.32 | 52.6 |
| 4/23/2015 2:58:35 | 45.28 | 40.18 | 972 | 0.19 | 0.32 | 53.2 |
| 4/23/2015 2:58:36 | 45.60 | 40.50 | 969 | 0.20 | 0.32 | 53.0 |
| 4/23/2015 2:58:36 | 45.93 | 40.83 | 969 | 0.20 | 0.32 | 53.0 |
| 4/23/2015 2:58:36 | 46.26 | 41.16 | 946 | 0.19 | 0.32 | 51.8 |
| 4/23/2015 2:58:37 | 46.59 | 41.49 | 933 | 0.19 | 0.32 | 51.0 |
| 4/23/2015 2:58:37 | 46.92 | 41.82 | 933 | 0.19 | 0.32 | 51.0 |
| 4/23/2015 2:58:38 | 47.24 | 42.14 | 933 | 0.19 | 0.32 | 51.0 |
| 4/23/2015 2:58:38 | 47.57 | 42.47 | 930 | 0.19 | 0.32 | 50.9 |
| 4/23/2015 2:58:38 | 47.90 | 42.80 | 923 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 2:58:39 | 48.23 | 43.13 | 923 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 2:58:39 | 48.56 | 43.46 | 914 | 0.19 | 0.32 | 50.0 |
| 4/23/2015 2:58:39 | 48.88 | 43.78 | 914 | 0.20 | 0.32 | 50.0 |
| 4/23/2015 2:58:40 | 49.21 | 44.11 | 937 | 0.19 | 0.32 | 51.2 |
| 4/23/2015 2:58:40 | 49.54 | 44.44 | 937 | 0.19 | 0.32 | 51.2 |
| 4/23/2015 2:58:40 | 49.87 | 44.77 | 944 | 0.20 | 0.32 | 51.6 |
| 4/23/2015 2:58:41 | 50.20 | 45.10 | 938 | 0.19 | 0.32 | 51.3 |
| 4/23/2015 2:58:42 | 50.53 | 45.43 | 936 | 0.18 | 0.32 | 51.2 |
| 4/23/2015 2:58:42 | 50.85 | 45.75 | 936 | 0.18 | 0.32 | 51.2 |
| 4/23/2015 2:58:42 | 51.18 | 46.08 | 939 | 0.19 | 0.34 | 51.3 |
| 4/23/2015 2:59:05 | 51.51 | 46.41 | 31 | 3.80 | 0.40 | 1.7 |
| 4/23/2015 2:59:09 | 51.84 | 46.74 | 66 | 4.68 | 0.40 | 3.6 |
| 4/23/2015 2:59:14 | 52.17 | 47.07 | 58 | 5.19 | 0.41 | 3.2 |
| 4/23/2015 2:59:17 | 52.49 | 47.39 | 156 | 3.67 | 0.38 | 8.6 |
| 4/23/2015 2:59:18 | 52.82 | 47.72 | 226 | 3.82 | 0.38 | 12.3 |
| 4/23/2015 2:59:19 | 53.15 | 48.05 | 301 | 4.06 | 0.37 | 16.5 |
| 4/23/2015 2:59:20 | 53.48 | 48.38 | 349 | 3.01 | 0.37 | 19.1 |
| 4/23/2015 2:59:20 | 53.81 | 48.71 | 364 | 2.91 | 0.37 | 19.9 |
| 4/23/2015 2:59:21 | 54.13 | 49.03 | 394 | 2.60 | 0.36 | 21.5 |
| 4/23/2015 2:59:22 | 54.46 | 49.36 | 429 | 2.69 | 0.36 | 23.4 |
| 4/23/2015 2:59:23 | 54.79 | 49.69 | 461 | 3.43 | 0.38 | 25.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:59:24 | 55.12 | 50.02 | 432 | 3.20 | 0.38 | 23.6 |
| 4/23/2015 | 2:59:25 | 55.45 | 50.35 | 353 | 3.05 | 0.38 | 19.3 |
| 4/23/2015 | 2:59:26 | 55.77 | 50.67 | 307 | 2.68 | 0.37 | 16.8 |
| 4/23/2015 | 2:59:27 | 56.10 | 51.00 | 310 | 2.45 | 0.36 | 16.9 |
| 4/23/2015 | 2:59:28 | 56.43 | 51.33 | 395 | 2.50 | 0.37 | 21.6 |
| 4/23/2015 | 2:59:30 | 56.76 | 51.66 | 240 | 4.45 | 0.40 | 13.1 |
| 4/23/2015 | 3:00:10 | 57.09 | 51.99 | 17 | 4.76 | 0.39 | 0.9 |
| 4/23/2015 | 3:00:17 | 57.41 | 52.31 | 61 | 3.45 | 0.40 | 3.3 |
| 4/23/2015 | 3:00:24 | 57.74 | 52.64 | 55 | 3.05 | 0.40 | 3.0 |
| 4/23/2015 | 3:00:30 | 58.07 | 52.97 | 52 | 4.19 | 0.40 | 2.8 |
| 4/23/2015 | 3:00:37 | 58.40 | 53.30 | 55 | 3.33 | 0.40 | 3.0 |
| 4/23/2015 | 3:00:39 | 58.53 | 53.43 | 55 | 3.98 | 0.40 | 3.0 |

## F33 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:55:23

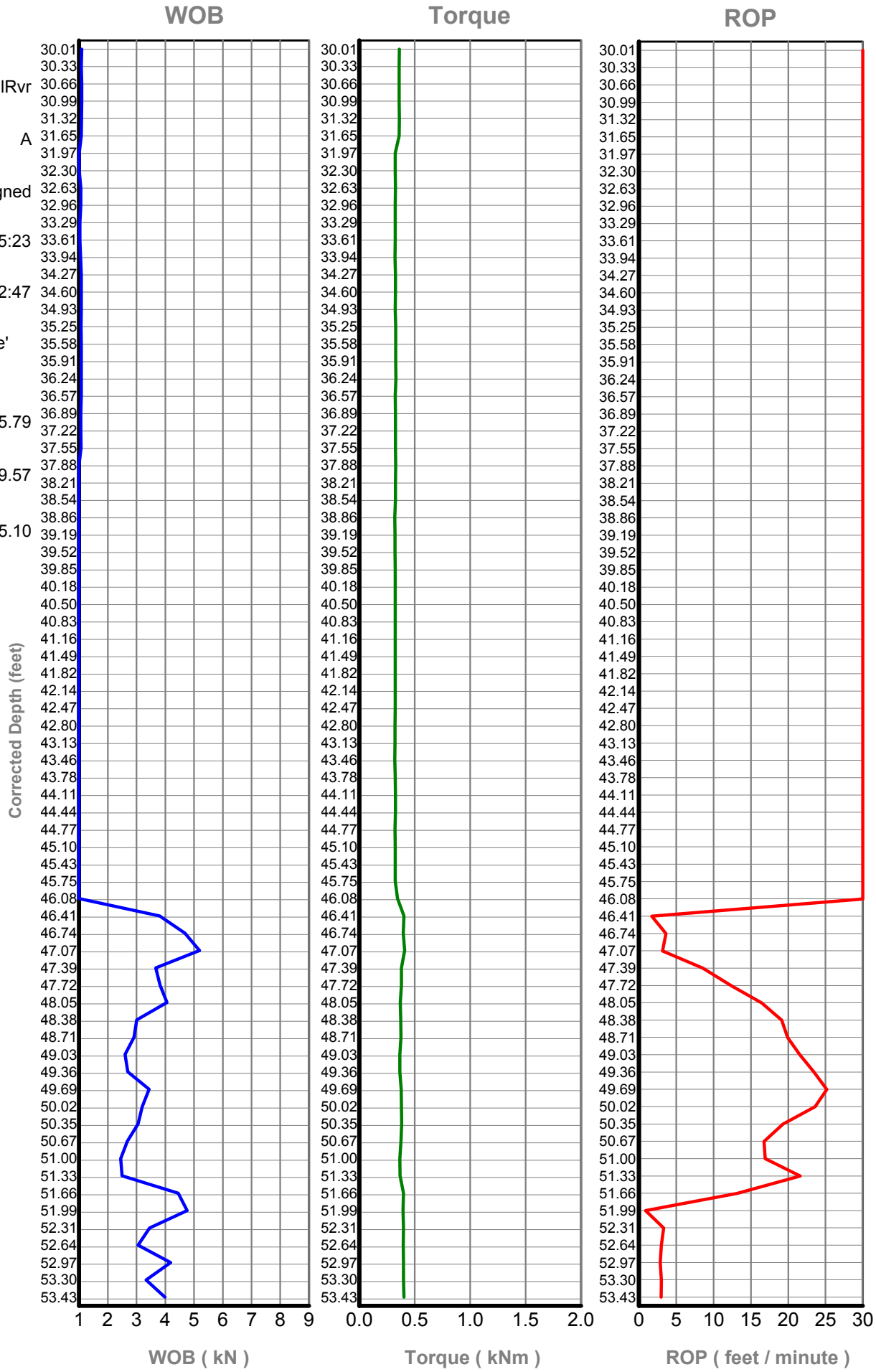
**End Date:**
4/23/2015 3:02:47

**Operator Note:**
'5.1 4.9 b Auto Complete'

**Northing:**
367,605.79

**Easting:**
251,809.57

**Tide (feet):**
5.10



## Hole: F34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:59:37 | 35.43 | 30.13 | 445 | 1.69 | 0.16 | 24.3 |
| 4/23/2015 2:59:38 | 35.76 | 30.46 | 445 | 1.69 | 0.16 | 24.3 |
| 4/23/2015 2:59:39 | 36.09 | 30.79 | 445 | 1.68 | 0.16 | 24.3 |
| 4/23/2015 2:59:40 | 36.42 | 31.12 | 445 | 1.69 | 0.16 | 24.3 |
| 4/23/2015 2:59:41 | 36.75 | 31.45 | 445 | 1.68 | 0.16 | 24.3 |
| 4/23/2015 2:59:42 | 37.07 | 31.77 | 445 | 1.71 | 0.16 | 24.3 |
| 4/23/2015 2:59:43 | 37.40 | 32.10 | 448 | 1.69 | 0.16 | 24.5 |
| 4/23/2015 2:59:43 | 37.73 | 32.43 | 445 | 1.70 | 0.16 | 24.3 |
| 4/23/2015 2:59:44 | 38.06 | 32.76 | 445 | 1.71 | 0.16 | 24.3 |
| 4/23/2015 2:59:45 | 38.39 | 33.09 | 445 | 1.69 | 0.16 | 24.3 |
| 4/23/2015 2:59:46 | 38.71 | 33.41 | 448 | 1.68 | 0.16 | 24.5 |
| 4/23/2015 2:59:46 | 39.04 | 33.74 | 440 | 1.70 | 0.16 | 24.1 |
| 4/23/2015 2:59:47 | 39.37 | 34.07 | 446 | 1.68 | 0.16 | 24.4 |
| 4/23/2015 2:59:48 | 39.70 | 34.40 | 446 | 1.67 | 0.16 | 24.4 |
| 4/23/2015 2:59:49 | 40.03 | 34.73 | 451 | 1.69 | 0.16 | 24.7 |
| 4/23/2015 2:59:49 | 40.35 | 35.05 | 445 | 1.69 | 0.21 | 24.3 |
| 4/23/2015 2:59:51 | 40.68 | 35.38 | 442 | 1.68 | 0.16 | 24.2 |
| 4/23/2015 2:59:51 | 41.01 | 35.71 | 445 | 1.68 | 0.16 | 24.3 |
| 4/23/2015 2:59:52 | 41.34 | 36.04 | 445 | 1.70 | 0.16 | 24.3 |
| 4/23/2015 2:59:53 | 41.67 | 36.37 | 445 | 1.68 | 0.16 | 24.3 |
| 4/23/2015 2:59:54 | 41.99 | 36.69 | 445 | 1.70 | 0.16 | 24.3 |
| 4/23/2015 2:59:55 | 42.32 | 37.02 | 440 | 1.68 | 0.16 | 24.0 |
| 4/23/2015 2:59:55 | 42.65 | 37.35 | 442 | 1.68 | 0.16 | 24.2 |
| 4/23/2015 2:59:56 | 42.98 | 37.68 | 439 | 1.70 | 0.16 | 24.0 |
| 4/23/2015 2:59:57 | 43.31 | 38.01 | 442 | 1.71 | 0.16 | 24.2 |
| 4/23/2015 2:59:58 | 43.64 | 38.34 | 442 | 1.70 | 0.16 | 24.2 |
| 4/23/2015 2:59:58 | 43.96 | 38.66 | 442 | 1.69 | 0.16 | 24.2 |
| 4/23/2015 2:59:59 | 44.29 | 38.99 | 442 | 1.68 | 0.16 | 24.2 |
| 4/23/2015 3:00:00 | 44.62 | 39.32 | 442 | 1.71 | 0.16 | 24.2 |
| 4/23/2015 3:00:01 | 44.95 | 39.65 | 442 | 1.69 | 0.16 | 24.2 |
| 4/23/2015 3:00:02 | 45.28 | 39.98 | 442 | 1.71 | 0.16 | 24.2 |
| 4/23/2015 3:00:03 | 45.60 | 40.30 | 442 | 1.69 | 0.16 | 24.2 |
| 4/23/2015 3:00:04 | 45.93 | 40.63 | 437 | 1.68 | 0.16 | 23.9 |
| 4/23/2015 3:00:04 | 46.26 | 40.96 | 443 | 1.68 | 0.16 | 24.2 |
| 4/23/2015 3:00:05 | 46.59 | 41.29 | 440 | 1.69 | 0.16 | 24.1 |
| 4/23/2015 3:00:06 | 46.92 | 41.62 | 451 | 1.69 | 0.16 | 24.6 |
| 4/23/2015 3:00:07 | 47.24 | 41.94 | 439 | 1.70 | 0.16 | 24.0 |
| 4/23/2015 3:00:07 | 47.57 | 42.27 | 442 | 1.70 | 0.16 | 24.2 |
| 4/23/2015 3:00:08 | 47.90 | 42.60 | 439 | 1.70 | 0.16 | 24.0 |
| 4/23/2015 3:00:09 | 48.23 | 42.93 | 440 | 1.69 | 0.16 | 24.0 |
| 4/23/2015 3:00:10 | 48.56 | 43.26 | 442 | 1.70 | 0.18 | 24.2 |
| 4/23/2015 3:00:11 | 48.88 | 43.58 | 432 | 1.69 | 0.16 | 23.6 |
| 4/23/2015 3:00:12 | 49.21 | 43.91 | 435 | 1.70 | 0.16 | 23.8 |
| 4/23/2015 3:00:13 | 49.54 | 44.24 | 441 | 1.67 | 0.16 | 24.1 |
| 4/23/2015 3:00:39 | 49.87 | 44.57 | 25 | 1.68 | 1.14 | 1.4 |
| 4/23/2015 3:00:47 | 50.20 | 44.90 | 35 | 1.68 | 1.19 | 1.9 |
| 4/23/2015 3:00:49 | 50.53 | 45.23 | 141 | 1.96 | 1.25 | 7.7 |
| 4/23/2015 3:01:09 | 50.85 | 45.55 | 26 | 1.70 | 1.06 | 1.4 |
| 4/23/2015 3:01:26 | 51.18 | 45.88 | 20 | 1.70 | 1.09 | 1.1 |
| 4/23/2015 3:01:33 | 51.51 | 46.21 | 73 | 1.65 | 1.10 | 4.0 |
| 4/23/2015 3:01:43 | 51.80 | 46.50 | 26 | 1.74 | 1.17 | 1.4 |

## F34 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 2:57:30

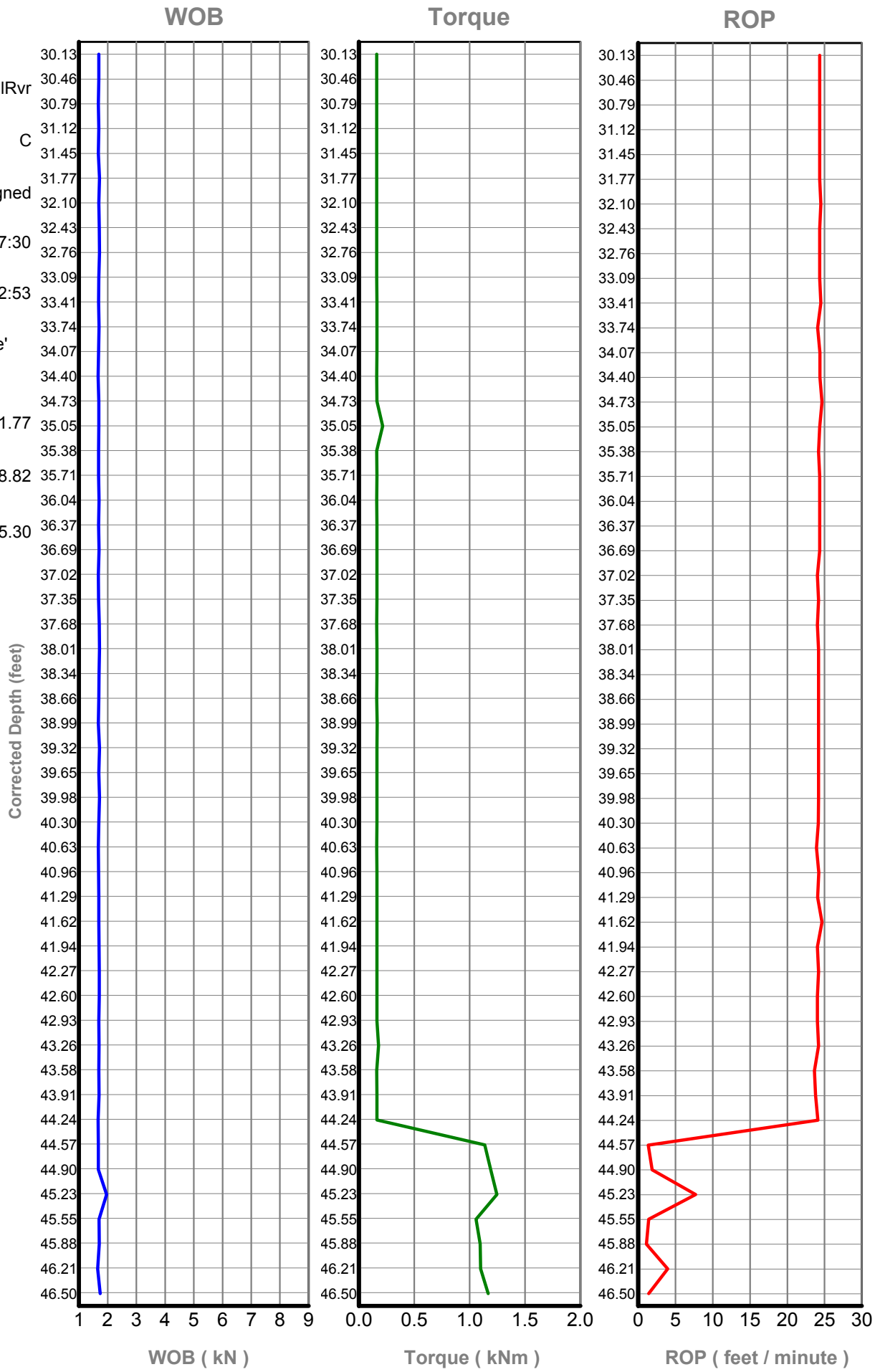
**End Date:**
4/23/2015 3:02:53

**Operator Note:**
'5.3 5.0 c Auto Complete'

**Northing:**
367,651.77

**Easting:**
251,868.82

**Tide (feet):**
5.30



## Hole: F35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:46:54 | 30.84 | 30.14 | 914 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 23:46:54 | 31.17 | 30.47 | 930 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:46:55 | 31.50 | 30.80 | 930 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:46:55 | 31.82 | 31.12 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 23:46:55 | 32.15 | 31.45 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:46:56 | 32.48 | 31.78 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:46:56 | 32.81 | 32.11 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:46:56 | 33.14 | 32.44 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:46:57 | 33.46 | 32.76 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:46:57 | 33.79 | 33.09 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:46:58 | 34.12 | 33.42 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:46:58 | 34.45 | 33.75 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 23:46:58 | 34.78 | 34.08 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 23:46:59 | 35.11 | 34.41 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 23:46:59 | 35.43 | 34.73 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 23:46:59 | 35.76 | 35.06 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 23:47:00 | 36.09 | 35.39 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 23:47:00 | 36.42 | 35.72 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:47:01 | 36.75 | 36.05 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:47:01 | 37.07 | 36.37 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:47:02 | 37.40 | 36.70 | 912 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:47:02 | 37.73 | 37.03 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:47:03 | 38.06 | 37.36 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:47:03 | 38.39 | 37.69 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:47:03 | 38.71 | 38.01 | 924 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 23:47:04 | 39.04 | 38.34 | 924 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 23:47:04 | 39.37 | 38.67 | 924 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 23:47:04 | 39.70 | 39.00 | 934 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 23:47:05 | 40.03 | 39.33 | 932 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 23:47:05 | 40.35 | 39.65 | 926 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:06 | 40.68 | 39.98 | 926 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:06 | 41.01 | 40.31 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 23:47:06 | 41.34 | 40.64 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 23:47:07 | 41.67 | 40.97 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:47:07 | 41.99 | 41.29 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:47:07 | 42.32 | 41.62 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 23:47:08 | 42.65 | 41.95 | 930 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:47:08 | 42.98 | 42.28 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:09 | 43.31 | 42.61 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:09 | 43.64 | 42.94 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 23:47:09 | 43.96 | 43.26 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 23:47:10 | 44.29 | 43.59 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 23:47:10 | 44.62 | 43.92 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 23:47:10 | 44.95 | 44.25 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 23:47:11 | 45.28 | 44.58 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:11 | 45.60 | 44.90 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:47:12 | 45.93 | 45.23 | 856 | 1.66 | 1.29 | 46.8 |
| 4/22/2015 23:47:29 | 46.26 | 45.56 | 85 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 23:47:32 | 46.59 | 45.89 | 128 | 1.66 | 1.29 | 7.0 |
| 4/22/2015 23:47:46 | 46.92 | 46.22 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 23:47:48 | 47.24 | 46.54 | 105 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 23:48:00 | 47.57 | 46.87 | 26 | 1.66 | 1.29 | 1.4 |
| 4/22/2015 23:48:03 | 47.90 | 47.20 | 109 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 23:48:06 | 48.23 | 47.53 | 108 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 23:48:09 | 48.56 | 47.86 | 116 | 1.66 | 1.29 | 6.4 |
| 4/22/2015 23:48:14 | 48.88 | 48.18 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 23:48:18 | 49.21 | 48.51 | 76 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 23:48:22 | 49.54 | 48.84 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 23:48:26 | 49.87 | 49.17 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 23:48:26 | 49.91 | 49.21 | 74 | 1.66 | 1.29 | 4.0 |

## F35 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:44:23

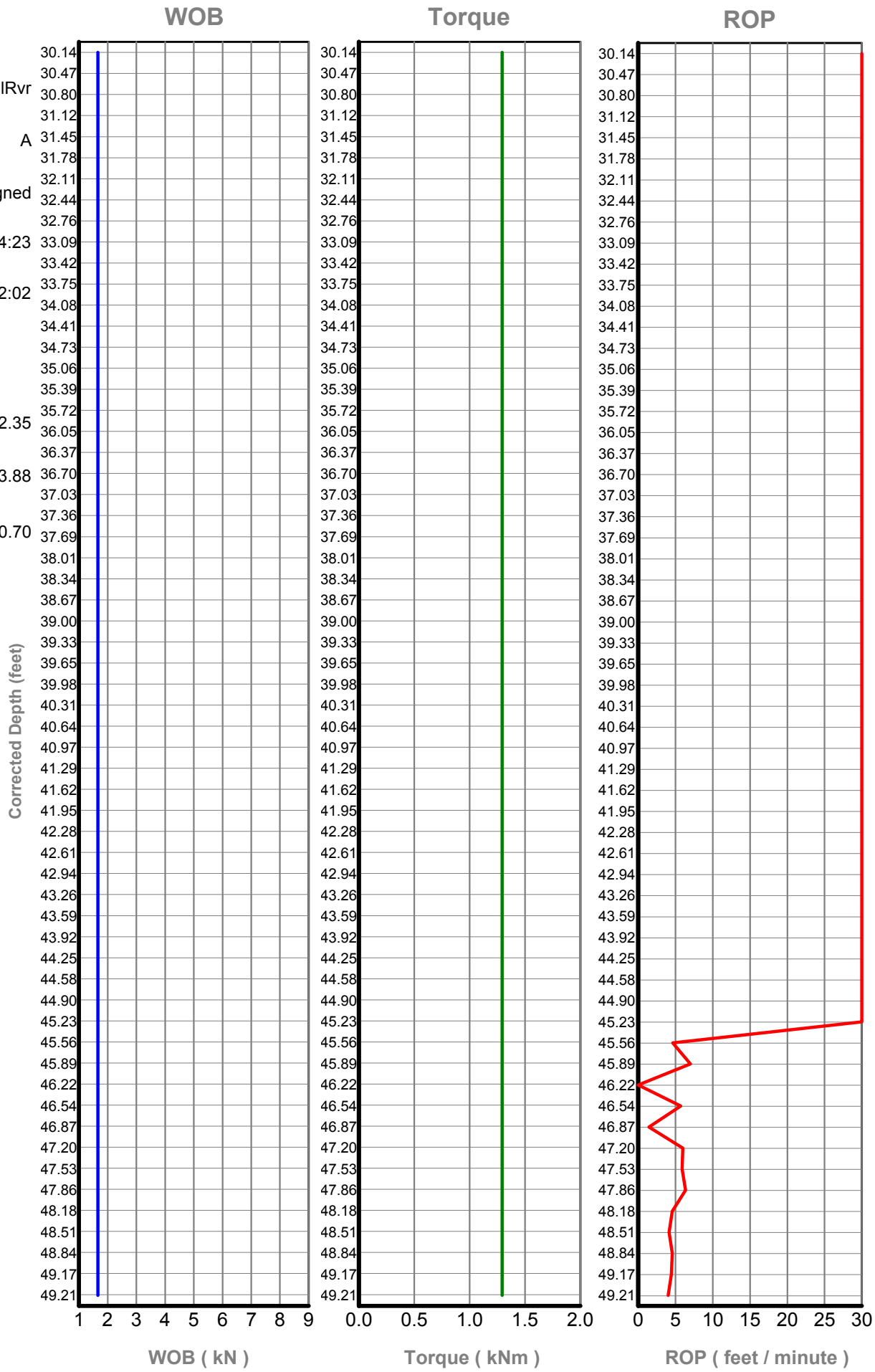
**End Date:**
4/22/2015 23:52:02

**Operator Note:**
'0.7 .7 b Auto Complete'

**Northing:**
367,702.35

**Easting:**
251,933.88

**Tide (feet):**
0.70



## Hole: F36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:36:55 | 30.84 | 30.04 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 23:36:56 | 31.17 | 30.37 | 863 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 23:36:56 | 31.50 | 30.70 | 863 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 23:36:56 | 31.82 | 31.02 | 863 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 23:36:57 | 32.15 | 31.35 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 23:36:57 | 32.48 | 31.68 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:36:58 | 32.81 | 32.01 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:36:58 | 33.14 | 32.34 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 23:36:58 | 33.46 | 32.66 | 877 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 23:36:59 | 33.79 | 32.99 | 877 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 23:36:59 | 34.12 | 33.32 | 886 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 23:37:00 | 34.45 | 33.65 | 886 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 23:37:00 | 34.78 | 33.98 | 886 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 23:37:00 | 35.11 | 34.31 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 23:37:01 | 35.43 | 34.63 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 23:37:01 | 35.76 | 34.96 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 23:37:01 | 36.09 | 35.29 | 891 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 23:37:02 | 36.42 | 35.62 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 23:37:02 | 36.75 | 35.95 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 23:37:03 | 37.07 | 36.27 | 886 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 23:37:04 | 37.40 | 36.60 | 886 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 23:37:03 | 37.73 | 36.93 | 865 | 1.66 | 1.29 | 47.3 |
| 4/22/2015 23:37:04 | 38.06 | 37.26 | 865 | 1.66 | 1.29 | 47.3 |
| 4/22/2015 23:37:04 | 38.39 | 37.59 | 883 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 23:37:05 | 38.71 | 37.91 | 883 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 23:37:05 | 39.04 | 38.24 | 876 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 23:37:06 | 39.37 | 38.57 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 23:37:06 | 39.70 | 38.90 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:07 | 40.03 | 39.23 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:07 | 40.35 | 39.55 | 906 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 23:37:07 | 40.68 | 39.88 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:37:08 | 41.01 | 40.21 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:37:08 | 41.34 | 40.54 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:09 | 41.67 | 40.87 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:09 | 41.99 | 41.19 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 23:37:09 | 42.32 | 41.52 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 23:37:10 | 42.65 | 41.85 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 23:37:10 | 42.98 | 42.18 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 23:37:10 | 43.31 | 42.51 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:11 | 43.64 | 42.84 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 23:37:11 | 43.96 | 43.16 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:37:12 | 44.29 | 43.49 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:37:12 | 44.62 | 43.82 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:37:12 | 44.95 | 44.15 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:37:13 | 45.28 | 44.48 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:37:13 | 45.60 | 44.80 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:37:14 | 45.93 | 45.13 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:37:31 | 46.26 | 45.46 | 31 | 1.66 | 1.29 | 1.7 |
| 4/22/2015 23:37:35 | 46.59 | 45.79 | 99 | 1.66 | 1.29 | 5.4 |
| 4/22/2015 23:37:39 | 46.92 | 46.12 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 23:37:49 | 47.24 | 46.44 | 44 | 1.66 | 1.29 | 2.4 |
| 4/22/2015 23:37:54 | 47.57 | 46.77 | 83 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 23:38:10 | 47.90 | 47.10 | 63 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 23:38:15 | 48.23 | 47.43 | 52 | 1.66 | 1.29 | 2.8 |
| 4/22/2015 23:38:30 | 48.56 | 47.76 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 23:38:31 | 48.88 | 48.08 | 105 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 23:38:33 | 49.21 | 48.41 | 224 | 1.66 | 1.29 | 12.2 |
| 4/22/2015 23:38:36 | 49.54 | 48.74 | 134 | 1.66 | 1.29 | 7.3 |
| 4/22/2015 23:38:41 | 49.87 | 49.07 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 23:38:45 | 50.20 | 49.40 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 23:38:49 | 50.53 | 49.73 | 81 | 1.66 | 1.29 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 23:38:54 | 50.85 | 50.05 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 23:38:57 | 51.18 | 50.38 | 96 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 | 23:39:01 | 51.51 | 50.71 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 23:39:06 | 51.84 | 51.04 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 23:39:09 | 52.17 | 51.37 | 116 | 1.66 | 1.29 | 6.4 |
| 4/22/2015 | 23:39:11 | 52.49 | 51.69 | 146 | 1.66 | 1.29 | 8.0 |
| 4/22/2015 | 23:39:14 | 52.82 | 52.02 | 106 | 1.66 | 1.29 | 5.8 |
| 4/22/2015 | 23:39:19 | 53.15 | 52.35 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 23:39:29 | 53.48 | 52.68 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 23:39:33 | 53.81 | 53.01 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 23:39:38 | 54.13 | 53.33 | 72 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 23:39:43 | 54.46 | 53.66 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 23:39:47 | 54.79 | 53.99 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 23:39:52 | 55.12 | 54.32 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 23:39:57 | 55.45 | 54.65 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 23:40:02 | 55.77 | 54.97 | 58 | 1.66 | 1.29 | 3.2 |

## F36 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:33:52

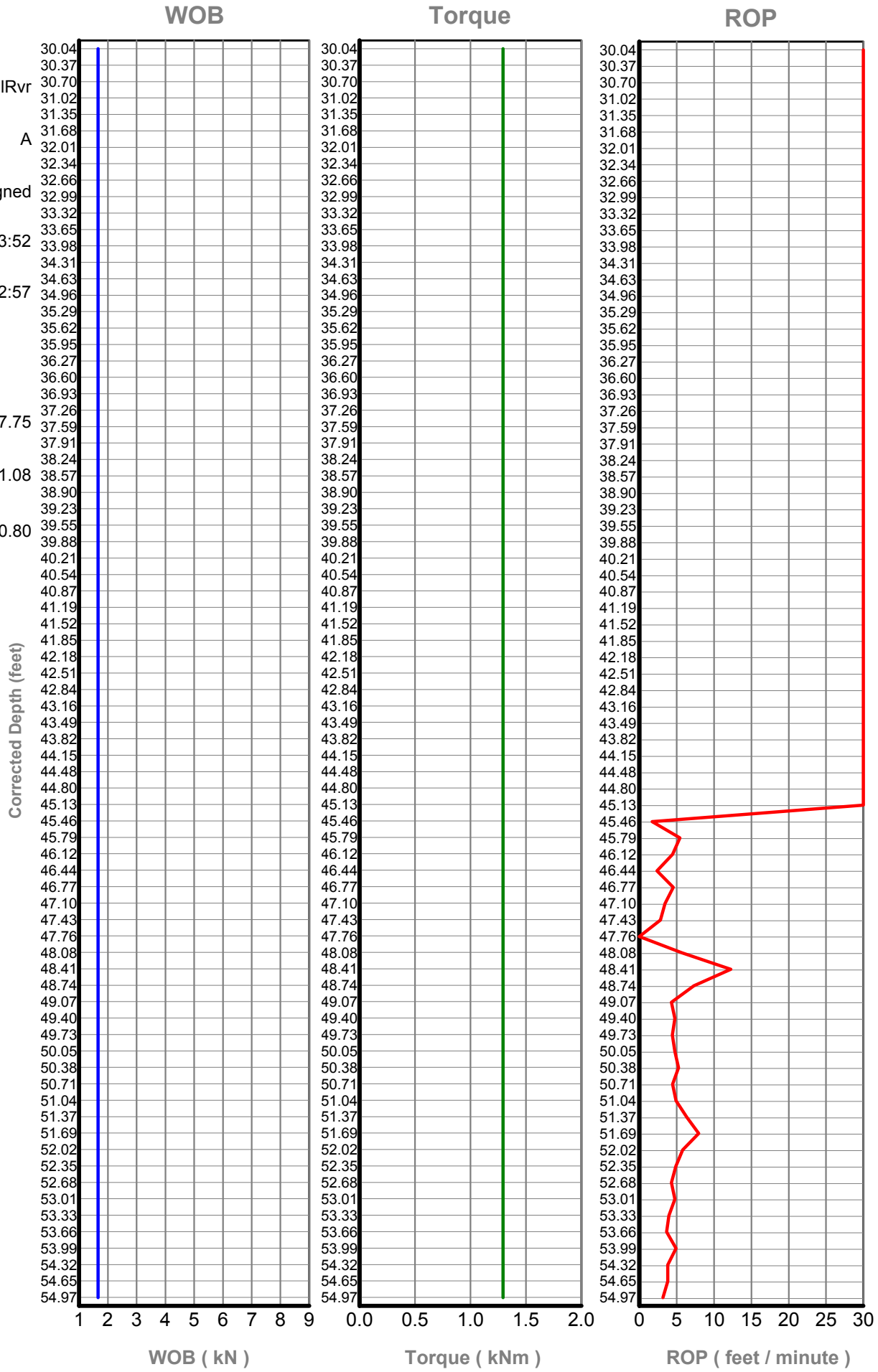
**End Date:**
4/22/2015 23:42:57

**Operator Note:**
'0.8 .8 b Auto Complete'

**Northing:**
367,737.75

**Easting:**
251,981.08

**Tide (feet):**
0.80



## Hole: F37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:38:30 | 30.84 | 30.14 | 515 | 1.71 | 0.17 | 28.1 |
| 4/22/2015 23:38:30 | 31.17 | 30.47 | 509 | 1.69 | 0.16 | 27.8 |
| 4/22/2015 23:38:31 | 31.50 | 30.80 | 512 | 1.68 | 0.17 | 28.0 |
| 4/22/2015 23:38:32 | 31.82 | 31.12 | 509 | 1.68 | 0.17 | 27.8 |
| 4/22/2015 23:38:32 | 32.15 | 31.45 | 503 | 1.71 | 0.16 | 27.5 |
| 4/22/2015 23:38:33 | 32.48 | 31.78 | 503 | 1.69 | 0.17 | 27.5 |
| 4/22/2015 23:38:34 | 32.81 | 32.11 | 509 | 1.68 | 0.16 | 27.8 |
| 4/22/2015 23:38:34 | 33.14 | 32.44 | 509 | 1.68 | 0.17 | 27.8 |
| 4/22/2015 23:38:35 | 33.46 | 32.76 | 512 | 1.70 | 0.17 | 28.0 |
| 4/22/2015 23:38:36 | 33.79 | 33.09 | 512 | 1.68 | 0.17 | 28.0 |
| 4/22/2015 23:38:37 | 34.12 | 33.42 | 506 | 1.72 | 0.17 | 27.6 |
| 4/22/2015 23:38:38 | 34.45 | 33.75 | 506 | 1.74 | 0.17 | 27.7 |
| 4/22/2015 23:38:38 | 34.78 | 34.08 | 506 | 1.70 | 0.17 | 27.6 |
| 4/22/2015 23:38:39 | 35.11 | 34.41 | 509 | 1.70 | 0.16 | 27.8 |
| 4/22/2015 23:38:40 | 35.43 | 34.73 | 509 | 1.70 | 0.16 | 27.8 |
| 4/22/2015 23:38:40 | 35.76 | 35.06 | 509 | 1.68 | 0.17 | 27.8 |
| 4/22/2015 23:38:41 | 36.09 | 35.39 | 509 | 1.66 | 0.16 | 27.8 |
| 4/22/2015 23:38:42 | 36.42 | 35.72 | 500 | 1.68 | 0.16 | 27.3 |
| 4/22/2015 23:38:42 | 36.75 | 36.05 | 506 | 1.67 | 0.16 | 27.7 |
| 4/22/2015 23:38:43 | 37.07 | 36.37 | 506 | 1.68 | 0.17 | 27.7 |
| 4/22/2015 23:38:44 | 37.40 | 36.70 | 506 | 1.69 | 0.17 | 27.7 |
| 4/22/2015 23:38:44 | 37.73 | 37.03 | 506 | 1.68 | 0.17 | 27.7 |
| 4/22/2015 23:38:45 | 38.06 | 37.36 | 500 | 1.70 | 0.17 | 27.3 |
| 4/22/2015 23:38:46 | 38.39 | 37.69 | 500 | 1.68 | 0.17 | 27.3 |
| 4/22/2015 23:38:47 | 38.71 | 38.01 | 503 | 1.70 | 0.16 | 27.5 |
| 4/22/2015 23:38:48 | 39.04 | 38.34 | 500 | 1.68 | 0.16 | 27.4 |
| 4/22/2015 23:38:48 | 39.37 | 38.67 | 500 | 1.71 | 0.16 | 27.4 |
| 4/22/2015 23:38:49 | 39.70 | 39.00 | 500 | 1.70 | 0.16 | 27.4 |
| 4/22/2015 23:38:50 | 40.03 | 39.33 | 503 | 1.69 | 0.17 | 27.5 |
| 4/22/2015 23:38:50 | 40.35 | 39.65 | 497 | 1.70 | 0.16 | 27.2 |
| 4/22/2015 23:38:51 | 40.68 | 39.98 | 503 | 1.70 | 0.18 | 27.5 |
| 4/22/2015 23:38:52 | 41.01 | 40.31 | 497 | 1.68 | 0.17 | 27.2 |
| 4/22/2015 23:38:52 | 41.34 | 40.64 | 491 | 1.70 | 0.16 | 26.9 |
| 4/22/2015 23:38:53 | 41.67 | 40.97 | 489 | 1.68 | 0.16 | 26.7 |
| 4/22/2015 23:38:54 | 41.99 | 41.29 | 483 | 1.70 | 0.16 | 26.4 |
| 4/22/2015 23:38:55 | 42.32 | 41.62 | 486 | 1.69 | 0.17 | 26.6 |
| 4/22/2015 23:38:55 | 42.65 | 41.95 | 474 | 1.67 | 0.17 | 25.9 |
| 4/22/2015 23:38:56 | 42.98 | 42.28 | 469 | 1.59 | 0.17 | 25.6 |
| 4/22/2015 23:39:01 | 43.31 | 42.61 | 111 | 1.68 | 0.16 | 6.1 |
| 4/22/2015 23:39:02 | 43.64 | 42.94 | 182 | 1.68 | 0.17 | 10.0 |
| 4/22/2015 23:39:03 | 43.96 | 43.26 | 296 | 1.68 | 0.17 | 16.2 |
| 4/22/2015 23:39:04 | 44.29 | 43.59 | 370 | 1.68 | 0.17 | 20.2 |
| 4/22/2015 23:39:24 | 44.62 | 43.92 | 0 | 1.71 | 1.13 | 0.0 |
| 4/22/2015 23:39:25 | 44.95 | 44.25 | 137 | 1.79 | 1.12 | 7.5 |
| 4/22/2015 23:39:27 | 45.28 | 44.58 | 263 | 1.69 | 1.12 | 14.4 |
| 4/22/2015 23:39:28 | 45.60 | 44.90 | 269 | 1.71 | 1.12 | 14.7 |
| 4/22/2015 23:39:30 | 45.93 | 45.23 | 205 | 1.70 | 1.17 | 11.2 |
| 4/22/2015 23:39:46 | 46.26 | 45.56 | 23 | 1.71 | 1.14 | 1.3 |
| 4/22/2015 23:40:00 | 46.59 | 45.89 | 28 | 1.70 | 1.07 | 1.5 |
| 4/22/2015 23:40:11 | 46.92 | 46.22 | 40 | 1.69 | 1.16 | 2.2 |
| 4/22/2015 23:40:15 | 47.14 | 46.44 | 55 | 1.81 | 1.20 | 3.0 |

## F37 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:36:39

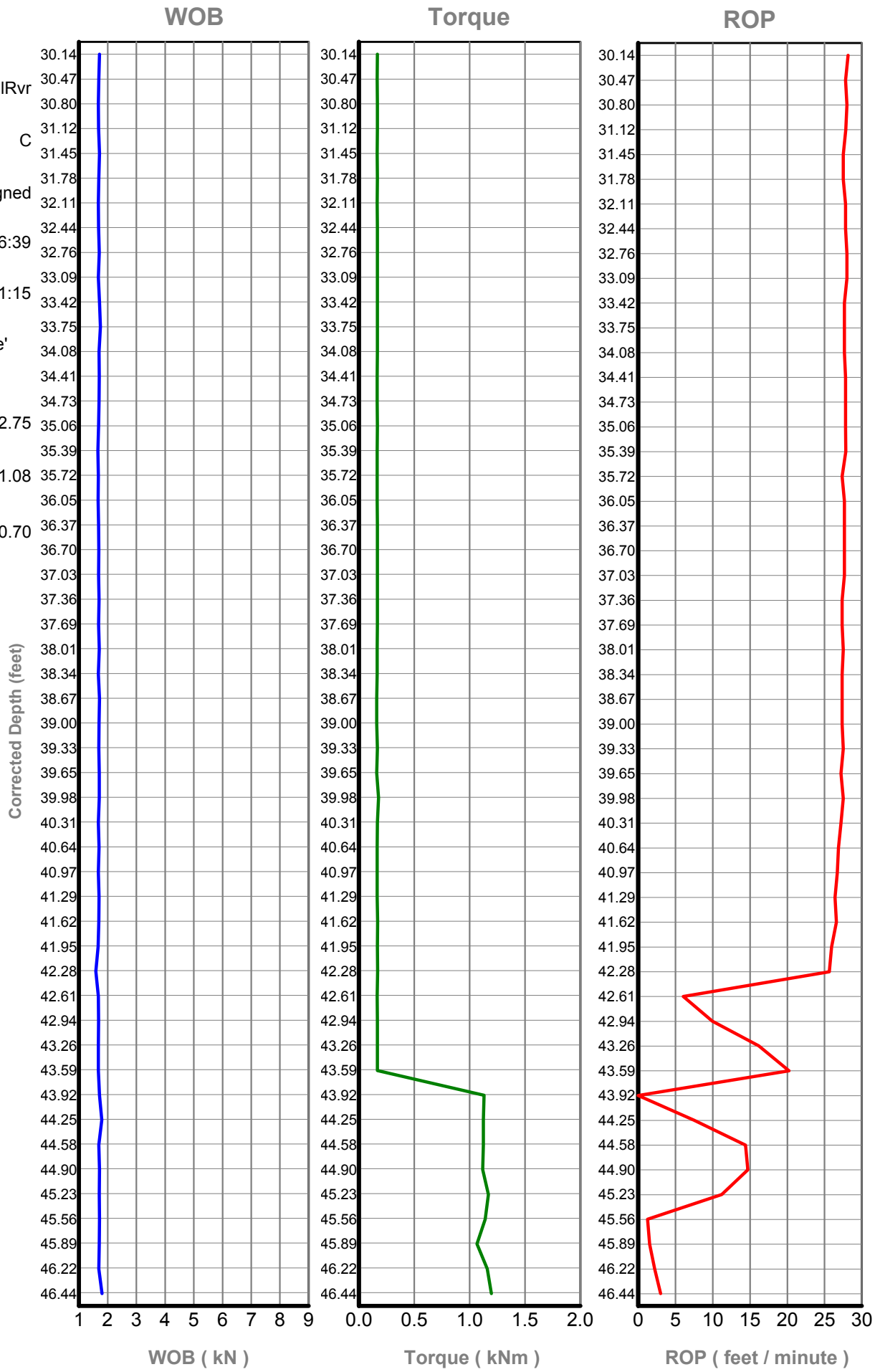
**End Date:**
4/22/2015 23:41:15

**Operator Note:**
'0.7 0.7 c Auto Complete'

**Northing:**
367,782.75

**Easting:**
252,041.08

**Tide (feet):**
0.70



## Hole: F38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 12:10:02 | 31.82 | 30.12 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 12:10:02 | 32.15 | 30.45 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 12:10:02 | 32.48 | 30.78 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:10:03 | 32.81 | 31.11 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:10:03 | 33.14 | 31.44 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:10:03 | 33.46 | 31.76 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 12:10:04 | 33.79 | 32.09 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 12:10:04 | 34.12 | 32.42 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 12:10:04 | 34.45 | 32.75 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:10:05 | 34.78 | 33.08 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:10:05 | 35.11 | 33.41 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 12:10:05 | 35.43 | 33.73 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:10:06 | 35.76 | 34.06 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:10:06 | 36.09 | 34.39 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:10:06 | 36.42 | 34.72 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 12:10:07 | 36.75 | 35.05 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 12:10:07 | 37.07 | 35.37 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 12:10:07 | 37.40 | 35.70 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:10:08 | 37.73 | 36.03 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:08 | 38.06 | 36.36 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:08 | 38.39 | 36.69 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:09 | 38.71 | 37.01 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:10:09 | 39.04 | 37.34 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:10:09 | 39.37 | 37.67 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 12:10:10 | 39.70 | 38.00 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:10:10 | 40.03 | 38.33 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:10:10 | 40.35 | 38.65 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 12:10:11 | 40.68 | 38.98 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 12:10:11 | 41.01 | 39.31 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 12:10:11 | 41.34 | 39.64 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 12:10:12 | 41.67 | 39.97 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 12:10:13 | 41.99 | 40.29 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 12:10:13 | 42.32 | 40.62 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 12:10:13 | 42.65 | 40.95 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 12:10:14 | 42.98 | 41.28 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 12:10:14 | 43.31 | 41.61 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 12:10:14 | 43.64 | 41.94 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:15 | 43.96 | 42.26 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:15 | 44.29 | 42.59 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:10:15 | 44.62 | 42.92 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 12:10:16 | 44.95 | 43.25 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 12:10:16 | 45.28 | 43.58 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 12:10:16 | 45.60 | 43.90 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:10:17 | 45.93 | 44.23 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:10:17 | 46.26 | 44.56 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 12:10:34 | 46.59 | 44.89 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 12:10:43 | 46.92 | 45.22 | 58 | 1.66 | 1.29 | 3.2 |
| 4/22/2015 12:10:48 | 47.24 | 45.54 | 96 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 12:10:51 | 47.57 | 45.87 | 83 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 12:10:55 | 47.90 | 46.20 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 12:10:59 | 48.23 | 46.53 | 92 | 1.66 | 1.29 | 5.0 |
| 4/22/2015 12:11:04 | 48.56 | 46.86 | 87 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 12:11:07 | 48.88 | 47.18 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 12:11:12 | 49.21 | 47.51 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 12:11:16 | 49.54 | 47.84 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 12:11:20 | 49.87 | 48.17 | 74 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 12:11:25 | 50.20 | 48.50 | 86 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 12:11:29 | 50.53 | 48.83 | 95 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 12:11:31 | 50.85 | 49.15 | 144 | 1.66 | 1.29 | 7.9 |
| 4/22/2015 12:11:35 | 51.18 | 49.48 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 12:11:39 | 51.51 | 49.81 | 85 | 1.66 | 1.29 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 12:11:43 | 51.84 | 50.14 | 106 | 1.66 | 1.29 | 5.8 |
| 4/22/2015 | 12:11:45 | 52.17 | 50.47 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 | 12:11:47 | 52.49 | 50.79 | 174 | 1.66 | 1.29 | 9.5 |
| 4/22/2015 | 12:11:49 | 52.82 | 51.12 | 160 | 1.66 | 1.29 | 8.7 |
| 4/22/2015 | 12:11:51 | 53.15 | 51.45 | 180 | 1.66 | 1.29 | 9.9 |
| 4/22/2015 | 12:11:53 | 53.48 | 51.78 | 166 | 1.66 | 1.29 | 9.1 |
| 4/22/2015 | 12:11:55 | 53.81 | 52.11 | 197 | 1.66 | 1.29 | 10.8 |
| 4/22/2015 | 12:11:58 | 54.13 | 52.43 | 116 | 1.66 | 1.29 | 6.4 |
| 4/22/2015 | 12:12:02 | 54.46 | 52.76 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 12:12:06 | 54.79 | 53.09 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 12:12:09 | 55.12 | 53.42 | 142 | 1.66 | 1.29 | 7.8 |
| 4/22/2015 | 12:12:12 | 55.45 | 53.75 | 113 | 1.66 | 1.29 | 6.2 |
| 4/22/2015 | 12:12:15 | 55.77 | 54.07 | 128 | 1.66 | 1.29 | 7.0 |
| 4/22/2015 | 12:12:17 | 55.92 | 54.22 | 106 | 1.66 | 1.29 | 5.8 |

## F38 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 12:08:09

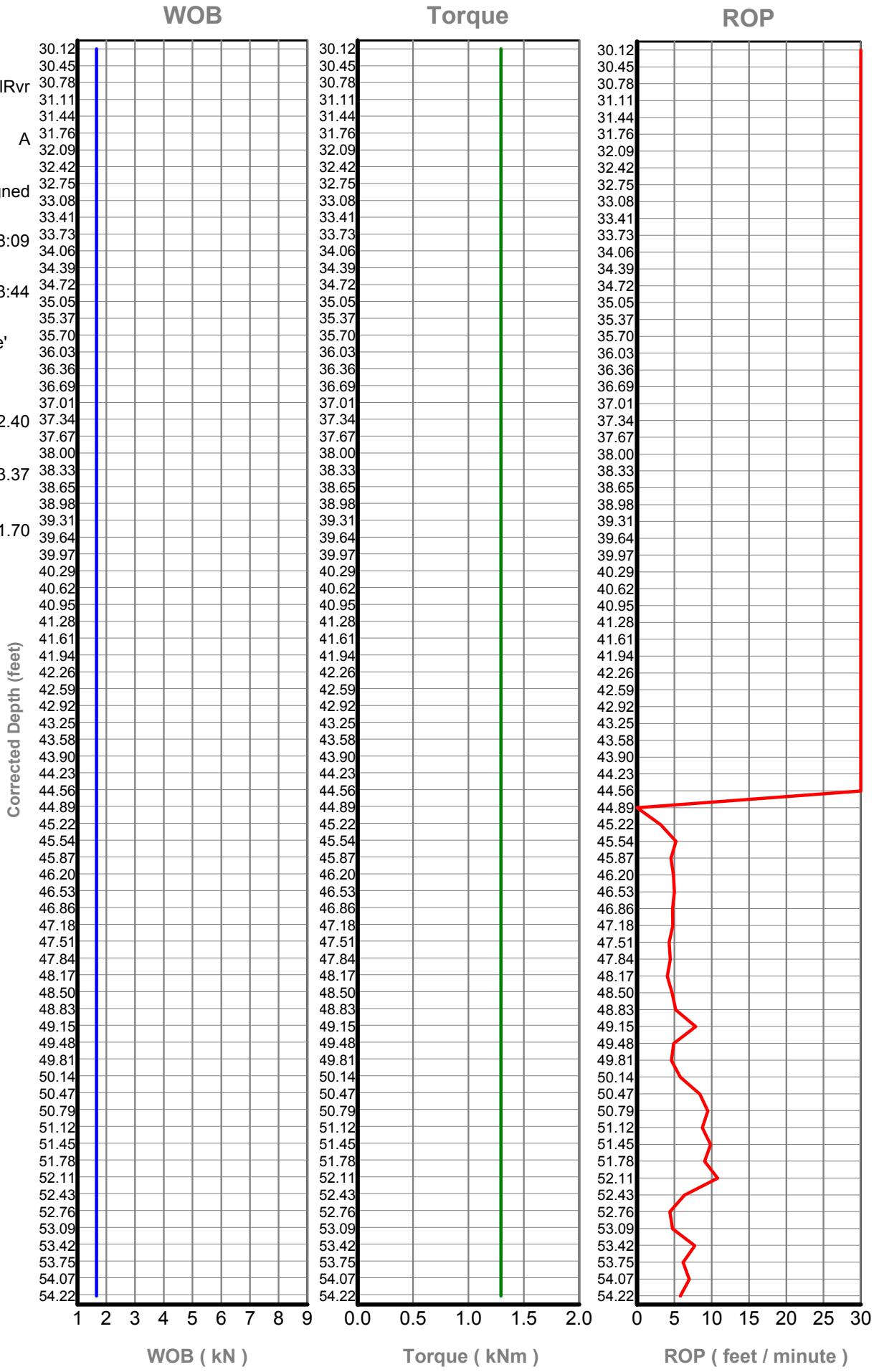
**End Date:**
4/22/2015 12:13:44

**Operator Note:**
'1.7 0.9 b Auto Complete'

**Northing:**
367,852.40

**Easting:**
252,113.37

**Tide (feet):**
1.70



## Hole: F39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 12:16:52 | 31.82 | 30.12 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 12:16:52 | 32.15 | 30.45 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 12:16:52 | 32.48 | 30.78 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 12:16:53 | 32.81 | 31.11 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 12:16:53 | 33.14 | 31.44 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 12:16:53 | 33.46 | 31.76 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 12:16:54 | 33.79 | 32.09 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 12:16:54 | 34.12 | 32.42 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 12:16:54 | 34.45 | 32.75 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:16:55 | 34.78 | 33.08 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 12:16:55 | 35.11 | 33.41 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 12:16:55 | 35.43 | 33.73 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 12:16:56 | 35.76 | 34.06 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 12:16:56 | 36.09 | 34.39 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 12:16:56 | 36.42 | 34.72 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:16:57 | 36.75 | 35.05 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 12:16:57 | 37.07 | 35.37 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 12:16:57 | 37.40 | 35.70 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 12:16:58 | 37.73 | 36.03 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 12:16:58 | 38.06 | 36.36 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 12:16:58 | 38.39 | 36.69 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:16:59 | 38.71 | 37.01 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:17:00 | 39.04 | 37.34 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:17:00 | 39.37 | 37.67 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 12:17:00 | 39.70 | 38.00 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 12:17:01 | 40.03 | 38.33 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 12:17:01 | 40.35 | 38.65 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 12:17:01 | 40.68 | 38.98 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 12:17:02 | 41.01 | 39.31 | 996 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 12:17:02 | 41.34 | 39.64 | 996 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 12:17:02 | 41.67 | 39.97 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 12:17:03 | 41.99 | 40.29 | 1,001 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 12:17:03 | 42.32 | 40.62 | 1,001 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 12:17:03 | 42.65 | 40.95 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 12:17:04 | 42.98 | 41.28 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 12:17:04 | 43.31 | 41.61 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 12:17:04 | 43.64 | 41.94 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 12:17:05 | 43.96 | 42.26 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:17:05 | 44.29 | 42.59 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 12:17:05 | 44.62 | 42.92 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 12:17:06 | 44.95 | 43.25 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:17:06 | 45.28 | 43.58 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 12:17:06 | 45.60 | 43.90 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 12:17:07 | 45.93 | 44.23 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:17:07 | 46.26 | 44.56 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 12:17:07 | 46.59 | 44.89 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 12:17:17 | 46.92 | 45.22 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 12:17:18 | 47.24 | 45.54 | 142 | 1.66 | 1.29 | 7.8 |
| 4/22/2015 12:17:23 | 47.57 | 45.87 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 12:17:27 | 47.90 | 46.20 | 83 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 12:17:31 | 48.23 | 46.53 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 12:17:35 | 48.56 | 46.86 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 12:17:40 | 48.88 | 47.18 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 12:17:43 | 49.21 | 47.51 | 91 | 1.66 | 1.29 | 5.0 |
| 4/22/2015 12:17:46 | 49.54 | 47.84 | 120 | 1.66 | 1.29 | 6.5 |
| 4/22/2015 12:17:50 | 49.87 | 48.17 | 91 | 1.66 | 1.29 | 5.0 |
| 4/22/2015 12:17:54 | 50.20 | 48.50 | 85 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 12:17:58 | 50.53 | 48.83 | 93 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 12:18:01 | 50.85 | 49.15 | 115 | 1.66 | 1.29 | 6.3 |
| 4/22/2015 12:18:04 | 51.18 | 49.48 | 108 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 12:18:08 | 51.51 | 49.81 | 110 | 1.66 | 1.29 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 12:18:12 | 51.84 | 50.14 | 85 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 | 12:18:16 | 52.17 | 50.47 | 92 | 1.66 | 1.29 | 5.0 |
| 4/22/2015 | 12:18:20 | 52.49 | 50.79 | 102 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 | 12:18:23 | 52.82 | 51.12 | 110 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 | 12:18:26 | 53.15 | 51.45 | 107 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 | 12:18:28 | 53.48 | 51.78 | 136 | 1.66 | 1.29 | 7.4 |
| 4/22/2015 | 12:18:33 | 53.81 | 52.11 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 12:18:37 | 54.13 | 52.43 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 12:18:42 | 54.46 | 52.76 | 71 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 | 12:18:46 | 54.79 | 53.09 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 12:18:50 | 55.12 | 53.42 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 12:18:56 | 55.45 | 53.75 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 12:19:01 | 55.77 | 54.07 | 61 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 | 12:19:02 | 55.84 | 54.14 | 61 | 1.66 | 1.29 | 3.3 |

## F39 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 12:15:37

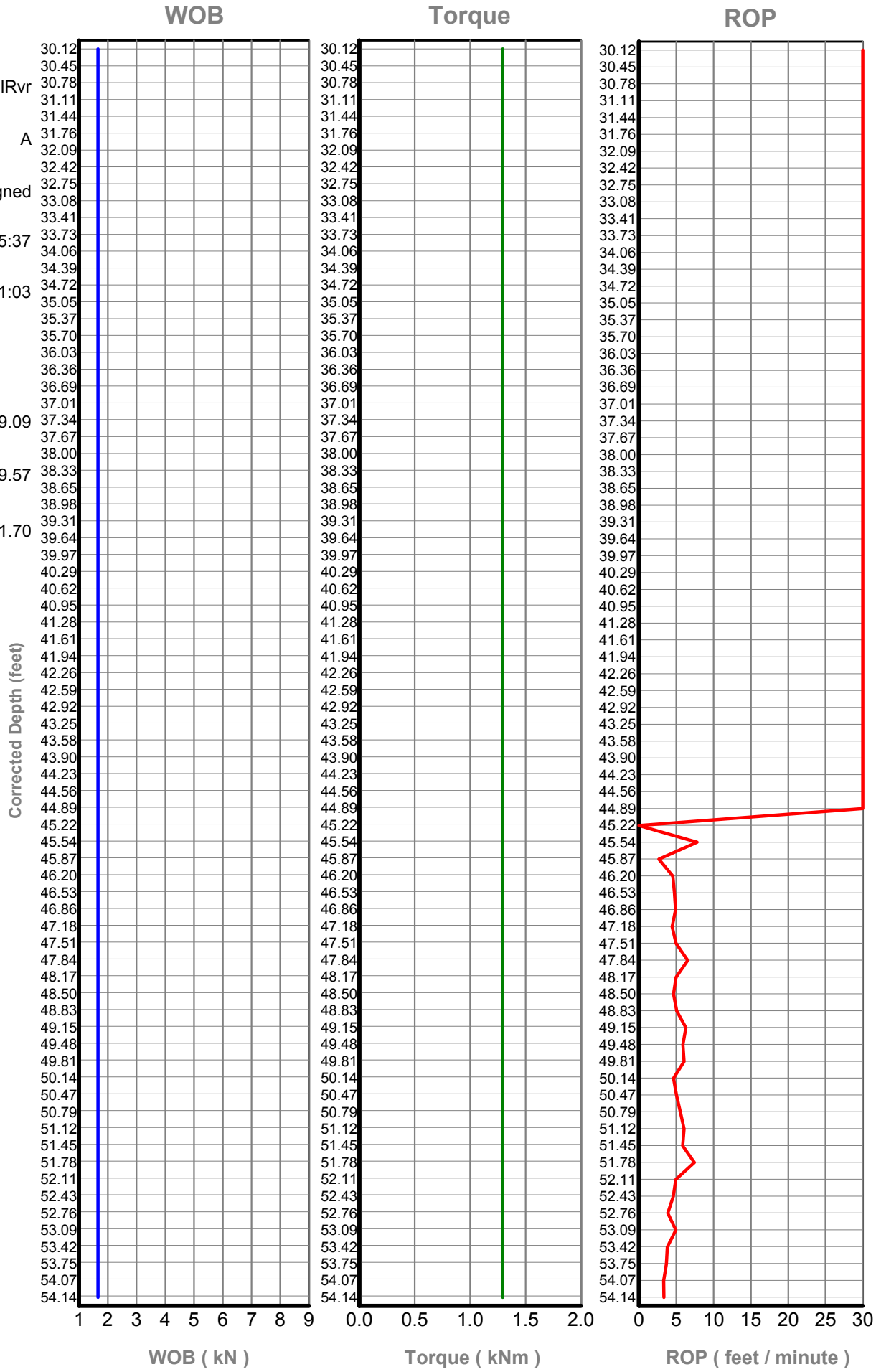
**End Date:**
4/22/2015 12:21:03

**Operator Note:**
'1.7 0.9 b Tide screen updated to 1.8'

**Northing:**
367,889.09

**Easting:**
252,159.57

**Tide (feet):**
1.70



## Hole: F4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 2:02:00 | 34.12 | 30.12 | 448 | 1.70 | 0.17 | 24.5 |
| 4/23/2015 2:02:01 | 34.45 | 30.45 | 448 | 1.68 | 0.17 | 24.5 |
| 4/23/2015 2:02:02 | 34.78 | 30.78 | 448 | 1.70 | 0.17 | 24.5 |
| 4/23/2015 2:02:03 | 35.11 | 31.11 | 443 | 1.69 | 0.16 | 24.2 |
| 4/23/2015 2:02:04 | 35.43 | 31.43 | 442 | 1.69 | 0.17 | 24.2 |
| 4/23/2015 2:02:04 | 35.76 | 31.76 | 442 | 1.68 | 0.17 | 24.2 |
| 4/23/2015 2:02:06 | 36.09 | 32.09 | 445 | 1.70 | 0.17 | 24.3 |
| 4/23/2015 2:02:06 | 36.42 | 32.42 | 445 | 1.69 | 0.17 | 24.3 |
| 4/23/2015 2:02:07 | 36.75 | 32.75 | 442 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 2:02:08 | 37.07 | 33.07 | 445 | 1.69 | 0.17 | 24.3 |
| 4/23/2015 2:02:09 | 37.40 | 33.40 | 437 | 1.70 | 0.17 | 23.9 |
| 4/23/2015 2:02:09 | 37.73 | 33.73 | 446 | 1.68 | 0.17 | 24.4 |
| 4/23/2015 2:02:10 | 38.06 | 34.06 | 443 | 1.69 | 0.17 | 24.2 |
| 4/23/2015 2:02:11 | 38.39 | 34.39 | 448 | 1.69 | 0.16 | 24.5 |
| 4/23/2015 2:02:12 | 38.71 | 34.71 | 445 | 1.69 | 0.16 | 24.3 |
| 4/23/2015 2:02:13 | 39.04 | 35.04 | 445 | 1.71 | 0.17 | 24.3 |
| 4/23/2015 2:02:13 | 39.37 | 35.37 | 445 | 1.72 | 0.17 | 24.3 |
| 4/23/2015 2:02:14 | 39.70 | 35.70 | 442 | 1.68 | 0.17 | 24.2 |
| 4/23/2015 2:02:15 | 40.03 | 36.03 | 445 | 1.69 | 0.17 | 24.3 |
| 4/23/2015 2:02:16 | 40.35 | 36.35 | 442 | 1.98 | 0.17 | 24.2 |
| 4/23/2015 2:02:17 | 40.68 | 36.68 | 442 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 2:02:18 | 41.01 | 37.01 | 442 | 1.69 | 0.17 | 24.2 |
| 4/23/2015 2:02:18 | 41.34 | 37.34 | 445 | 1.71 | 0.17 | 24.3 |
| 4/23/2015 2:02:19 | 41.67 | 37.67 | 445 | 1.70 | 0.17 | 24.3 |
| 4/23/2015 2:02:20 | 41.99 | 37.99 | 445 | 1.68 | 0.17 | 24.3 |
| 4/23/2015 2:02:21 | 42.32 | 38.32 | 445 | 1.70 | 0.17 | 24.3 |
| 4/23/2015 2:02:22 | 42.65 | 38.65 | 437 | 1.70 | 0.17 | 23.9 |
| 4/23/2015 2:02:22 | 42.98 | 38.98 | 445 | 1.70 | 0.17 | 24.4 |
| 4/23/2015 2:02:23 | 43.31 | 39.31 | 440 | 1.71 | 0.17 | 24.1 |
| 4/23/2015 2:02:24 | 43.64 | 39.64 | 438 | 1.69 | 0.17 | 23.9 |
| 4/23/2015 2:02:25 | 43.96 | 39.96 | 443 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 2:02:25 | 44.29 | 40.29 | 443 | 1.68 | 0.17 | 24.2 |
| 4/23/2015 2:02:27 | 44.62 | 40.62 | 451 | 1.70 | 0.17 | 24.6 |
| 4/23/2015 2:02:28 | 44.95 | 40.95 | 439 | 1.70 | 0.17 | 24.0 |
| 4/23/2015 2:02:28 | 45.28 | 41.28 | 442 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 2:02:29 | 45.60 | 41.60 | 427 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 2:02:30 | 45.93 | 41.93 | 427 | 1.68 | 0.16 | 23.4 |
| 4/23/2015 2:02:31 | 46.26 | 42.26 | 436 | 1.70 | 0.17 | 23.8 |
| 4/23/2015 2:02:31 | 46.59 | 42.59 | 436 | 1.68 | 0.17 | 23.8 |
| 4/23/2015 2:02:32 | 46.92 | 42.92 | 448 | 1.68 | 0.17 | 24.5 |
| 4/23/2015 2:02:33 | 47.24 | 43.24 | 442 | 1.68 | 0.17 | 24.2 |
| 4/23/2015 2:02:34 | 47.57 | 43.57 | 439 | 1.76 | 0.17 | 24.0 |
| 4/23/2015 2:02:35 | 47.90 | 43.90 | 439 | 1.69 | 0.17 | 24.0 |
| 4/23/2015 2:02:35 | 48.23 | 44.23 | 439 | 1.68 | 0.17 | 24.0 |
| 4/23/2015 2:02:37 | 48.56 | 44.56 | 432 | 1.68 | 0.17 | 23.6 |
| 4/23/2015 2:02:37 | 48.88 | 44.88 | 432 | 1.69 | 0.17 | 23.6 |
| 4/23/2015 2:02:38 | 49.21 | 45.21 | 434 | 1.71 | 0.17 | 23.7 |
| 4/23/2015 2:02:39 | 49.54 | 45.54 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 2:03:08 | 49.87 | 45.87 | 0 | 1.70 | 1.29 | 0.0 |
| 4/23/2015 2:03:16 | 50.20 | 46.20 | 0 | 1.70 | 1.19 | 0.0 |
| 4/23/2015 2:03:17 | 50.53 | 46.53 | 146 | 1.76 | 1.13 | 8.0 |
| 4/23/2015 2:03:18 | 50.85 | 46.85 | 225 | 1.72 | 1.13 | 12.3 |
| 4/23/2015 2:03:28 | 51.18 | 47.18 | 26 | 1.69 | 1.07 | 1.4 |
| 4/23/2015 2:03:29 | 51.51 | 47.51 | 175 | 1.70 | 1.06 | 9.6 |
| 4/23/2015 2:03:30 | 51.84 | 47.84 | 323 | 1.71 | 1.06 | 17.7 |
| 4/23/2015 2:03:31 | 52.17 | 48.17 | 373 | 1.70 | 1.03 | 20.4 |
| 4/23/2015 2:03:32 | 52.49 | 48.49 | 371 | 1.70 | 1.06 | 20.3 |
| 4/23/2015 2:04:18 | 52.82 | 48.82 | 80 | 1.70 | 1.02 | 4.4 |
| 4/23/2015 2:04:19 | 53.15 | 49.15 | 231 | 1.70 | 1.04 | 12.6 |
| 4/23/2015 2:04:19 | 53.48 | 49.48 | 302 | 1.70 | 1.06 | 16.5 |
| 4/23/2015 2:04:21 | 53.81 | 49.81 | 365 | 1.70 | 1.06 | 20.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 2:04:22 | 54.13 | 50.13 | 366 | 1.70 | 1.01 | 20.0 |
| 4/23/2015 | 2:04:23 | 54.46 | 50.46 | 374 | 1.70 | 1.13 | 20.4 |
| 4/23/2015 | 2:04:25 | 54.79 | 50.79 | 151 | 1.70 | 1.27 | 8.3 |
| 4/23/2015 | 2:04:27 | 55.12 | 51.12 | 148 | 1.70 | 1.01 | 8.1 |
| 4/23/2015 | 2:04:32 | 55.45 | 51.45 | 0 | 1.71 | 0.99 | 0.0 |
| 4/23/2015 | 2:04:33 | 55.77 | 51.77 | 125 | 1.69 | 0.99 | 6.8 |
| 4/23/2015 | 2:04:36 | 56.10 | 52.10 | 153 | 1.69 | 1.14 | 8.4 |
| 4/23/2015 | 2:04:38 | 56.43 | 52.43 | 120 | 1.70 | 0.99 | 6.6 |
| 4/23/2015 | 2:04:39 | 56.76 | 52.76 | 136 | 1.70 | 1.02 | 7.4 |
| 4/23/2015 | 2:04:40 | 57.09 | 53.09 | 264 | 1.70 | 1.04 | 14.4 |
| 4/23/2015 | 2:04:43 | 57.41 | 53.41 | 158 | 1.70 | 0.98 | 8.6 |
| 4/23/2015 | 2:04:44 | 57.74 | 53.74 | 184 | 1.68 | 1.05 | 10.1 |
| 4/23/2015 | 2:04:47 | 58.07 | 54.07 | 147 | 1.69 | 1.08 | 8.0 |
| 4/23/2015 | 2:04:56 | 58.40 | 54.40 | 0 | 1.69 | 1.11 | 0.0 |
| 4/23/2015 | 2:05:00 | 58.73 | 54.73 | 84 | 1.66 | 1.14 | 4.6 |

## F4 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 1:58:48

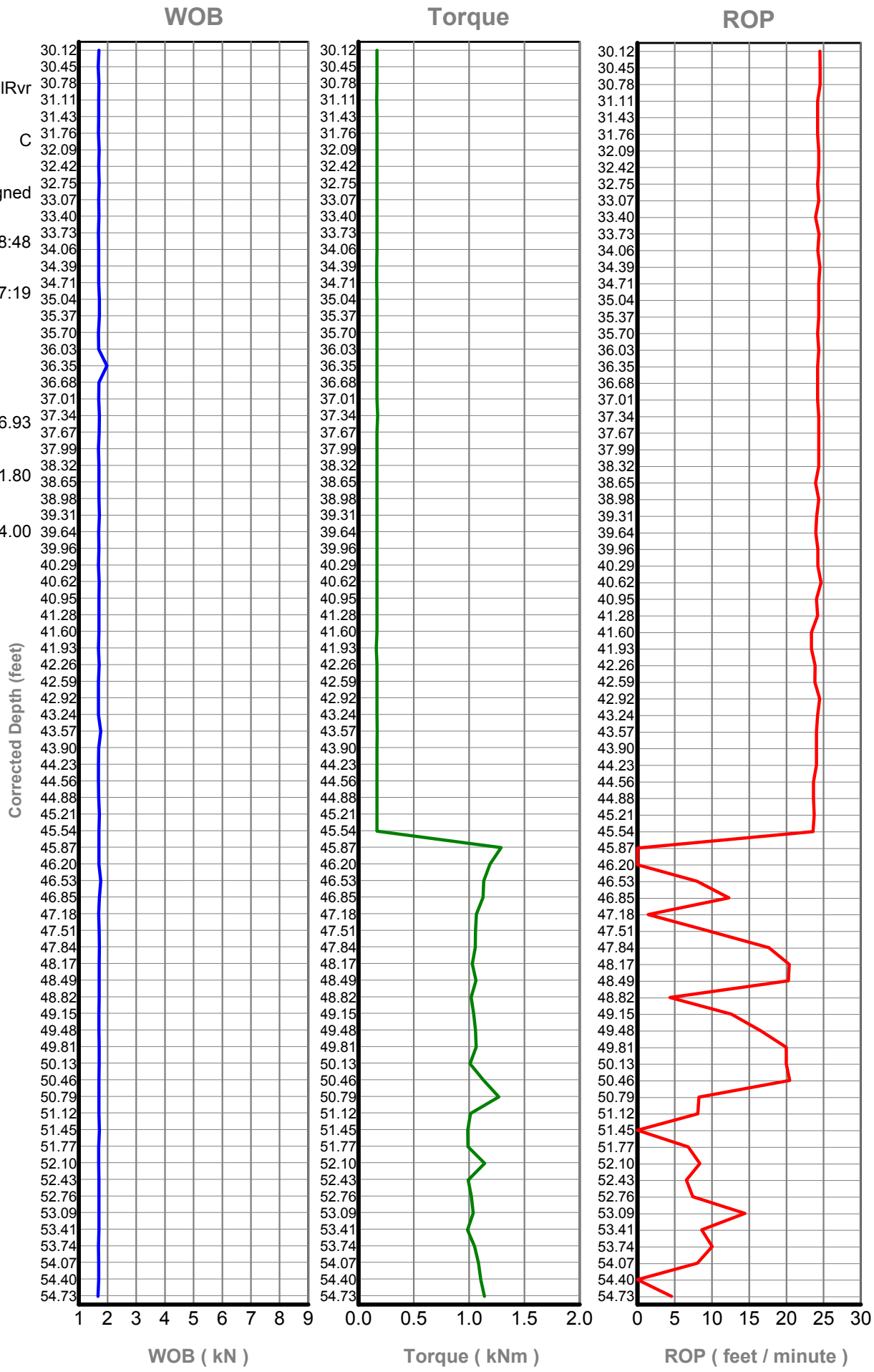
**End Date:**
4/23/2015 2:07:19

**Operator Note:**
'4 3.7 c Auto Complete'

**Northing:**
367,766.93

**Easting:**
251,771.80

**Tide (feet):**
4.00



## Hole: F40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 12:12:32 | 31.82 | 30.12 | 579 | 1.72 | 0.29 | 31.7 |
| 4/22/2015 12:12:33 | 32.15 | 30.45 | 575 | 1.71 | 0.29 | 31.5 |
| 4/22/2015 12:12:33 | 32.48 | 30.78 | 578 | 1.71 | 0.29 | 31.6 |
| 4/22/2015 12:12:34 | 32.81 | 31.11 | 578 | 1.71 | 0.29 | 31.6 |
| 4/22/2015 12:12:34 | 33.14 | 31.44 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:35 | 33.46 | 31.76 | 575 | 1.72 | 0.29 | 31.5 |
| 4/22/2015 12:12:36 | 33.79 | 32.09 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:36 | 34.12 | 32.42 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:37 | 34.45 | 32.75 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:37 | 34.78 | 33.08 | 575 | 1.72 | 0.29 | 31.5 |
| 4/22/2015 12:12:38 | 35.11 | 33.41 | 572 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 12:12:39 | 35.43 | 33.73 | 569 | 1.72 | 0.29 | 31.1 |
| 4/22/2015 12:12:39 | 35.76 | 34.06 | 575 | 1.72 | 0.29 | 31.5 |
| 4/22/2015 12:12:40 | 36.09 | 34.39 | 572 | 1.70 | 0.29 | 31.3 |
| 4/22/2015 12:12:40 | 36.42 | 34.72 | 579 | 1.72 | 0.29 | 31.7 |
| 4/22/2015 12:12:41 | 36.75 | 35.05 | 572 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 12:12:42 | 37.07 | 35.37 | 572 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 12:12:43 | 37.40 | 35.70 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:43 | 37.73 | 36.03 | 566 | 1.70 | 0.29 | 30.9 |
| 4/22/2015 12:12:44 | 38.06 | 36.36 | 576 | 1.72 | 0.29 | 31.5 |
| 4/22/2015 12:12:45 | 38.39 | 36.69 | 573 | 1.70 | 0.29 | 31.3 |
| 4/22/2015 12:12:45 | 38.71 | 37.01 | 567 | 1.73 | 0.29 | 31.0 |
| 4/22/2015 12:12:46 | 39.04 | 37.34 | 576 | 1.74 | 0.29 | 31.5 |
| 4/22/2015 12:12:46 | 39.37 | 37.67 | 573 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 12:12:47 | 39.70 | 38.00 | 570 | 1.74 | 0.29 | 31.2 |
| 4/22/2015 12:12:48 | 40.03 | 38.33 | 579 | 1.72 | 0.29 | 31.7 |
| 4/22/2015 12:12:48 | 40.35 | 38.65 | 573 | 1.70 | 0.29 | 31.3 |
| 4/22/2015 12:12:49 | 40.68 | 38.98 | 572 | 1.74 | 0.29 | 31.3 |
| 4/22/2015 12:12:49 | 41.01 | 39.31 | 575 | 1.71 | 0.29 | 31.5 |
| 4/22/2015 12:12:50 | 41.34 | 39.64 | 575 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:51 | 41.67 | 39.97 | 572 | 1.71 | 0.29 | 31.3 |
| 4/22/2015 12:12:51 | 41.99 | 40.29 | 566 | 1.71 | 0.29 | 30.9 |
| 4/22/2015 12:12:52 | 42.32 | 40.62 | 569 | 1.71 | 0.29 | 31.1 |
| 4/22/2015 12:12:53 | 42.65 | 40.95 | 567 | 1.70 | 0.28 | 31.0 |
| 4/22/2015 12:12:53 | 42.98 | 41.28 | 570 | 1.72 | 0.29 | 31.1 |
| 4/22/2015 12:12:54 | 43.31 | 41.61 | 572 | 1.70 | 0.27 | 31.3 |
| 4/22/2015 12:12:55 | 43.64 | 41.94 | 572 | 1.71 | 0.29 | 31.3 |
| 4/22/2015 12:12:55 | 43.96 | 42.26 | 576 | 1.70 | 0.29 | 31.5 |
| 4/22/2015 12:12:56 | 44.29 | 42.59 | 566 | 1.72 | 0.29 | 31.0 |
| 4/22/2015 12:12:56 | 44.62 | 42.92 | 573 | 1.72 | 0.30 | 31.3 |
| 4/22/2015 12:12:57 | 44.95 | 43.25 | 567 | 1.72 | 0.29 | 31.0 |
| 4/22/2015 12:12:58 | 45.28 | 43.58 | 563 | 1.72 | 0.29 | 30.8 |
| 4/22/2015 12:12:58 | 45.60 | 43.90 | 573 | 1.72 | 0.29 | 31.3 |
| 4/22/2015 12:12:59 | 45.93 | 44.23 | 567 | 1.69 | 0.29 | 31.0 |
| 4/22/2015 12:12:59 | 46.26 | 44.56 | 570 | 1.72 | 0.29 | 31.1 |
| 4/22/2015 12:13:00 | 46.59 | 44.89 | 573 | 1.71 | 0.29 | 31.3 |
| 4/22/2015 12:13:01 | 46.92 | 45.22 | 495 | 1.68 | 0.29 | 27.1 |
| 4/22/2015 12:13:15 | 47.24 | 45.54 | 74 | 1.72 | 1.17 | 4.0 |
| 4/22/2015 12:13:18 | 47.57 | 45.87 | 129 | 1.68 | 1.18 | 7.1 |
| 4/22/2015 12:13:21 | 47.90 | 46.20 | 118 | 1.70 | 1.18 | 6.4 |
| 4/22/2015 12:13:24 | 48.23 | 46.53 | 112 | 1.70 | 1.23 | 6.1 |
| 4/22/2015 12:13:27 | 48.56 | 46.86 | 110 | 1.68 | 1.16 | 6.0 |
| 4/22/2015 12:13:31 | 48.88 | 47.18 | 103 | 1.69 | 1.20 | 5.7 |
| 4/22/2015 12:13:34 | 49.21 | 47.51 | 119 | 1.70 | 1.11 | 6.5 |
| 4/22/2015 12:13:37 | 49.54 | 47.84 | 121 | 1.72 | 1.09 | 6.6 |
| 4/22/2015 12:13:41 | 49.87 | 48.17 | 85 | 1.69 | 1.11 | 4.6 |
| 4/22/2015 12:13:45 | 50.20 | 48.50 | 105 | 1.68 | 1.12 | 5.7 |
| 4/22/2015 12:13:49 | 50.53 | 48.83 | 81 | 1.69 | 1.18 | 4.4 |
| 4/22/2015 12:13:53 | 50.85 | 49.15 | 73 | 1.73 | 1.19 | 4.0 |
| 4/22/2015 12:13:58 | 51.18 | 49.48 | 81 | 1.68 | 1.11 | 4.4 |
| 4/22/2015 12:14:03 | 51.51 | 49.81 | 75 | 1.69 | 1.13 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 12:14:07 | 51.84 | 50.14 | 86 | 1.68 | 1.11 | 4.7 |
| 4/22/2015 | 12:14:10 | 52.09 | 50.39 | 81 | 1.69 | 1.18 | 4.4 |

## F40 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 12:10:42

**End Date:**
4/22/2015 12:15:37

**Operator Note:**
'1.7 .9 c Auto Complete'

**Northing:**
367,935.74

**Easting:**
252,218.31

**Tide (feet):**
1.70



## Hole: F41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:48:09 | 31.82 | 30.22 | 934 | 0.33 | 0.32 | 51.1 |
| 4/22/2015 9:48:10 | 32.15 | 30.55 | 934 | 0.33 | 0.32 | 51.1 |
| 4/22/2015 9:48:10 | 32.48 | 30.88 | 928 | 0.33 | 0.33 | 50.7 |
| 4/22/2015 9:48:10 | 32.81 | 31.21 | 934 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 9:48:11 | 33.14 | 31.54 | 934 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 9:48:11 | 33.46 | 31.86 | 934 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 9:48:11 | 33.79 | 32.19 | 942 | 0.33 | 0.33 | 51.5 |
| 4/22/2015 9:48:12 | 34.12 | 32.52 | 942 | 0.33 | 0.33 | 51.5 |
| 4/22/2015 9:48:12 | 34.45 | 32.85 | 939 | 0.33 | 0.33 | 51.4 |
| 4/22/2015 9:48:13 | 34.78 | 33.18 | 939 | 0.33 | 0.33 | 51.4 |
| 4/22/2015 9:48:13 | 35.11 | 33.51 | 937 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:13 | 35.43 | 33.83 | 931 | 0.33 | 0.33 | 50.9 |
| 4/22/2015 9:48:14 | 35.76 | 34.16 | 931 | 0.33 | 0.33 | 50.9 |
| 4/22/2015 9:48:14 | 36.09 | 34.49 | 934 | 0.33 | 0.32 | 51.1 |
| 4/22/2015 9:48:14 | 36.42 | 34.82 | 931 | 0.33 | 0.33 | 50.9 |
| 4/22/2015 9:48:15 | 36.75 | 35.15 | 916 | 0.33 | 0.33 | 50.1 |
| 4/22/2015 9:48:15 | 37.07 | 35.47 | 916 | 0.33 | 0.33 | 50.1 |
| 4/22/2015 9:48:15 | 37.40 | 35.80 | 916 | 0.33 | 0.33 | 50.1 |
| 4/22/2015 9:48:16 | 37.73 | 36.13 | 924 | 0.33 | 0.33 | 50.5 |
| 4/22/2015 9:48:17 | 38.06 | 36.46 | 935 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 9:48:17 | 38.39 | 36.79 | 935 | 0.33 | 0.33 | 51.1 |
| 4/22/2015 9:48:17 | 38.71 | 37.11 | 924 | 0.33 | 0.33 | 50.5 |
| 4/22/2015 9:48:18 | 39.04 | 37.44 | 935 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:18 | 39.37 | 37.77 | 945 | 0.33 | 0.33 | 51.7 |
| 4/22/2015 9:48:19 | 39.70 | 38.10 | 945 | 0.33 | 0.33 | 51.7 |
| 4/22/2015 9:48:19 | 40.03 | 38.43 | 937 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:19 | 40.35 | 38.75 | 928 | 0.33 | 0.32 | 50.8 |
| 4/22/2015 9:48:20 | 40.68 | 39.08 | 937 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:20 | 41.01 | 39.41 | 937 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:20 | 41.34 | 39.74 | 934 | 0.33 | 0.32 | 51.1 |
| 4/22/2015 9:48:21 | 41.67 | 40.07 | 919 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 9:48:21 | 41.99 | 40.39 | 919 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 9:48:21 | 42.32 | 40.72 | 919 | 0.33 | 0.33 | 50.3 |
| 4/22/2015 9:48:22 | 42.65 | 41.05 | 911 | 0.33 | 0.32 | 49.8 |
| 4/22/2015 9:48:22 | 42.98 | 41.38 | 914 | 0.33 | 0.32 | 50.0 |
| 4/22/2015 9:48:23 | 43.31 | 41.71 | 914 | 0.33 | 0.32 | 50.0 |
| 4/22/2015 9:48:23 | 43.64 | 42.04 | 914 | 0.33 | 0.32 | 50.0 |
| 4/22/2015 9:48:23 | 43.96 | 42.36 | 931 | 0.33 | 0.33 | 50.9 |
| 4/22/2015 9:48:24 | 44.29 | 42.69 | 896 | 0.33 | 0.33 | 49.0 |
| 4/22/2015 9:48:24 | 44.62 | 43.02 | 896 | 0.33 | 0.33 | 49.0 |
| 4/22/2015 9:48:24 | 44.95 | 43.35 | 896 | 0.33 | 0.32 | 49.0 |
| 4/22/2015 9:48:25 | 45.28 | 43.68 | 936 | 0.33 | 0.33 | 51.2 |
| 4/22/2015 9:48:26 | 45.60 | 44.00 | 917 | 0.33 | 0.32 | 50.2 |
| 4/22/2015 9:48:26 | 45.93 | 44.33 | 917 | 0.33 | 0.32 | 50.2 |
| 4/22/2015 9:48:26 | 46.26 | 44.66 | 923 | 0.33 | 0.33 | 50.5 |
| 4/22/2015 9:48:27 | 46.59 | 44.99 | 887 | 0.33 | 0.33 | 48.5 |
| 4/22/2015 9:48:27 | 46.92 | 45.32 | 887 | 0.33 | 0.33 | 48.5 |
| 4/22/2015 9:48:27 | 47.24 | 45.64 | 887 | 0.32 | 0.34 | 48.5 |
| 4/22/2015 9:48:57 | 47.57 | 45.97 | 16 | 4.74 | 0.39 | 0.9 |
| 4/22/2015 9:49:01 | 47.90 | 46.30 | 87 | 3.58 | 0.38 | 4.8 |
| 4/22/2015 9:49:09 | 48.23 | 46.63 | 70 | 3.12 | 0.41 | 3.8 |
| 4/22/2015 9:49:12 | 48.56 | 46.96 | 89 | 3.79 | 0.37 | 4.9 |
| 4/22/2015 9:49:13 | 48.88 | 47.28 | 200 | 4.13 | 0.38 | 10.9 |
| 4/22/2015 9:49:15 | 49.21 | 47.61 | 279 | 3.56 | 0.38 | 15.3 |
| 4/22/2015 9:49:16 | 49.54 | 47.94 | 188 | 3.20 | 0.38 | 10.3 |
| 4/22/2015 9:49:35 | 49.87 | 48.27 | 82 | 2.96 | 0.40 | 4.5 |
| 4/22/2015 9:49:54 | 50.20 | 48.60 | 0 | 5.54 | 0.40 | 0.0 |
| 4/22/2015 9:50:00 | 50.53 | 48.93 | 55 | 3.19 | 0.39 | 3.0 |
| 4/22/2015 9:50:07 | 50.85 | 49.25 | 40 | 3.35 | 0.40 | 2.2 |
| 4/22/2015 9:50:14 | 51.18 | 49.58 | 47 | 3.24 | 0.41 | 2.6 |
| 4/22/2015 9:50:23 | 51.51 | 49.91 | 34 | 3.20 | 0.40 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:50:32 | 51.79 | 50.19 | 32 | 2.89 | 0.40 | 1.7 |

## F41 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:45:59

**End Date:**
4/22/2015 9:52:03

**Operator Note:**
'1.6 1.8 b Auto Complete'

**Northing:**
367,983.74

**Easting:**
252,279.08

**Tide (feet):**
1.60



## Hole: F42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:54:01 | 31.82 | 30.22 | 963 | 0.32 | 0.32 | 52.6 |
| 4/22/2015 9:54:01 | 32.15 | 30.55 | 968 | 0.32 | 0.32 | 53.0 |
| 4/22/2015 9:54:01 | 32.48 | 30.88 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 9:54:02 | 32.81 | 31.21 | 983 | 0.35 | 0.32 | 53.7 |
| 4/22/2015 9:54:02 | 33.14 | 31.54 | 983 | 0.35 | 0.32 | 53.7 |
| 4/22/2015 9:54:02 | 33.46 | 31.86 | 983 | 0.33 | 0.32 | 53.7 |
| 4/22/2015 9:54:03 | 33.79 | 32.19 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 9:54:03 | 34.12 | 32.52 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 9:54:03 | 34.45 | 32.85 | 977 | 0.32 | 0.32 | 53.4 |
| 4/22/2015 9:54:04 | 34.78 | 33.18 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 9:54:04 | 35.11 | 33.51 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 9:54:05 | 35.43 | 33.83 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 9:54:05 | 35.76 | 34.16 | 971 | 0.32 | 0.32 | 53.1 |
| 4/22/2015 9:54:05 | 36.09 | 34.49 | 974 | 0.31 | 0.32 | 53.3 |
| 4/22/2015 9:54:06 | 36.42 | 34.82 | 974 | 0.31 | 0.32 | 53.3 |
| 4/22/2015 9:54:06 | 36.75 | 35.15 | 974 | 0.32 | 0.32 | 53.3 |
| 4/22/2015 9:54:06 | 37.07 | 35.47 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 9:54:07 | 37.40 | 35.80 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 9:54:07 | 37.73 | 36.13 | 980 | 0.32 | 0.32 | 53.6 |
| 4/22/2015 9:54:07 | 38.06 | 36.46 | 983 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 9:54:08 | 38.39 | 36.79 | 983 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 9:54:08 | 38.71 | 37.11 | 989 | 0.32 | 0.32 | 54.1 |
| 4/22/2015 9:54:08 | 39.04 | 37.44 | 992 | 0.32 | 0.32 | 54.2 |
| 4/22/2015 9:54:09 | 39.37 | 37.77 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 9:54:10 | 39.70 | 38.10 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 9:54:10 | 40.03 | 38.43 | 975 | 0.32 | 0.32 | 53.3 |
| 4/22/2015 9:54:10 | 40.35 | 38.75 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 9:54:11 | 40.68 | 39.08 | 966 | 0.33 | 0.32 | 52.8 |
| 4/22/2015 9:54:11 | 41.01 | 39.41 | 940 | 0.32 | 0.32 | 51.4 |
| 4/22/2015 9:54:11 | 41.34 | 39.74 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 9:54:12 | 41.67 | 40.07 | 940 | 0.33 | 0.32 | 51.4 |
| 4/22/2015 9:54:12 | 41.99 | 40.39 | 945 | 0.32 | 0.32 | 51.7 |
| 4/22/2015 9:54:12 | 42.32 | 40.72 | 945 | 0.32 | 0.32 | 51.7 |
| 4/22/2015 9:54:13 | 42.65 | 41.05 | 951 | 0.32 | 0.32 | 52.0 |
| 4/22/2015 9:54:13 | 42.98 | 41.38 | 951 | 0.32 | 0.32 | 52.0 |
| 4/22/2015 9:54:13 | 43.31 | 41.71 | 951 | 0.31 | 0.32 | 52.0 |
| 4/22/2015 9:54:14 | 43.64 | 42.04 | 978 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 9:54:14 | 43.96 | 42.36 | 978 | 0.32 | 0.32 | 53.5 |
| 4/22/2015 9:54:14 | 44.29 | 42.69 | 981 | 0.32 | 0.32 | 53.7 |
| 4/22/2015 9:54:15 | 44.62 | 43.02 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 9:54:15 | 44.95 | 43.35 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 9:54:15 | 45.28 | 43.68 | 986 | 0.32 | 0.32 | 53.9 |
| 4/22/2015 9:54:16 | 45.60 | 44.00 | 983 | 0.32 | 0.32 | 53.8 |
| 4/22/2015 9:54:16 | 45.93 | 44.33 | 987 | 0.32 | 0.32 | 54.0 |
| 4/22/2015 9:54:17 | 46.26 | 44.66 | 987 | 0.32 | 0.32 | 54.0 |
| 4/22/2015 9:54:17 | 46.59 | 44.99 | 988 | 0.32 | 0.32 | 54.0 |
| 4/22/2015 9:54:17 | 46.92 | 45.32 | 972 | 0.31 | 0.32 | 53.2 |
| 4/22/2015 9:54:18 | 47.24 | 45.64 | 972 | 0.31 | 0.32 | 53.2 |
| 4/22/2015 9:54:18 | 47.57 | 45.97 | 972 | 0.29 | 0.37 | 53.2 |
| 4/22/2015 9:54:37 | 47.90 | 46.30 | 27 | 4.26 | 0.38 | 1.5 |
| 4/22/2015 9:54:38 | 48.23 | 46.63 | 125 | 2.74 | 0.36 | 6.9 |
| 4/22/2015 9:54:39 | 48.56 | 46.96 | 220 | 4.02 | 0.37 | 12.0 |
| 4/22/2015 9:54:42 | 48.88 | 47.28 | 258 | 5.44 | 0.37 | 14.1 |
| 4/22/2015 9:54:43 | 49.21 | 47.61 | 199 | 3.86 | 0.36 | 10.9 |
| 4/22/2015 9:54:43 | 49.54 | 47.94 | 199 | 1.91 | 0.34 | 10.9 |
| 4/22/2015 9:56:09 | 49.87 | 48.27 | 0 | 3.33 | 0.37 | 0.0 |
| 4/22/2015 9:56:10 | 50.20 | 48.60 | 137 | 3.72 | 0.37 | 7.5 |
| 4/22/2015 9:56:11 | 50.53 | 48.93 | 291 | 3.60 | 0.37 | 15.9 |
| 4/22/2015 9:56:12 | 50.85 | 49.25 | 373 | 3.07 | 0.37 | 20.4 |
| 4/22/2015 9:56:13 | 51.18 | 49.58 | 367 | 3.96 | 0.37 | 20.1 |
| 4/22/2015 9:56:14 | 51.51 | 49.91 | 388 | 2.19 | 0.35 | 21.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:56:15 | 51.84 | 50.24 | 426 | 1.96 | 0.34 | 23.3 |
| 4/22/2015 | 9:56:15 | 52.17 | 50.57 | 493 | 1.96 | 0.34 | 26.9 |
| 4/22/2015 | 9:56:16 | 52.49 | 50.89 | 493 | 2.08 | 0.34 | 26.9 |
| 4/22/2015 | 9:56:16 | 52.82 | 51.22 | 493 | 2.08 | 0.34 | 26.9 |
| 4/22/2015 | 9:56:16 | 53.15 | 51.55 | 587 | 2.19 | 0.34 | 32.1 |
| 4/22/2015 | 9:56:17 | 53.48 | 51.88 | 655 | 1.87 | 0.33 | 35.8 |
| 4/22/2015 | 9:56:17 | 53.81 | 52.21 | 655 | 1.83 | 0.33 | 35.8 |
| 4/22/2015 | 9:56:18 | 54.13 | 52.53 | 744 | 1.93 | 0.33 | 40.7 |
| 4/22/2015 | 9:56:18 | 54.46 | 52.86 | 790 | 2.60 | 0.36 | 43.2 |
| 4/22/2015 | 9:56:20 | 54.79 | 53.19 | 306 | 3.00 | 0.40 | 16.7 |
| 4/22/2015 | 9:56:25 | 55.12 | 53.52 | 72 | 3.56 | 0.39 | 4.0 |
| 4/22/2015 | 9:56:29 | 55.45 | 53.85 | 93 | 3.41 | 0.38 | 5.1 |
| 4/22/2015 | 9:56:34 | 55.77 | 54.17 | 63 | 3.48 | 0.40 | 3.5 |
| 4/22/2015 | 9:56:41 | 56.10 | 54.50 | 58 | 3.09 | 0.40 | 3.2 |
| 4/22/2015 | 9:56:47 | 56.43 | 54.83 | 54 | 2.74 | 0.40 | 2.9 |
| 4/22/2015 | 9:56:51 | 56.74 | 55.14 | 88 | 3.07 | 0.40 | 4.8 |

## F42 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:52:39

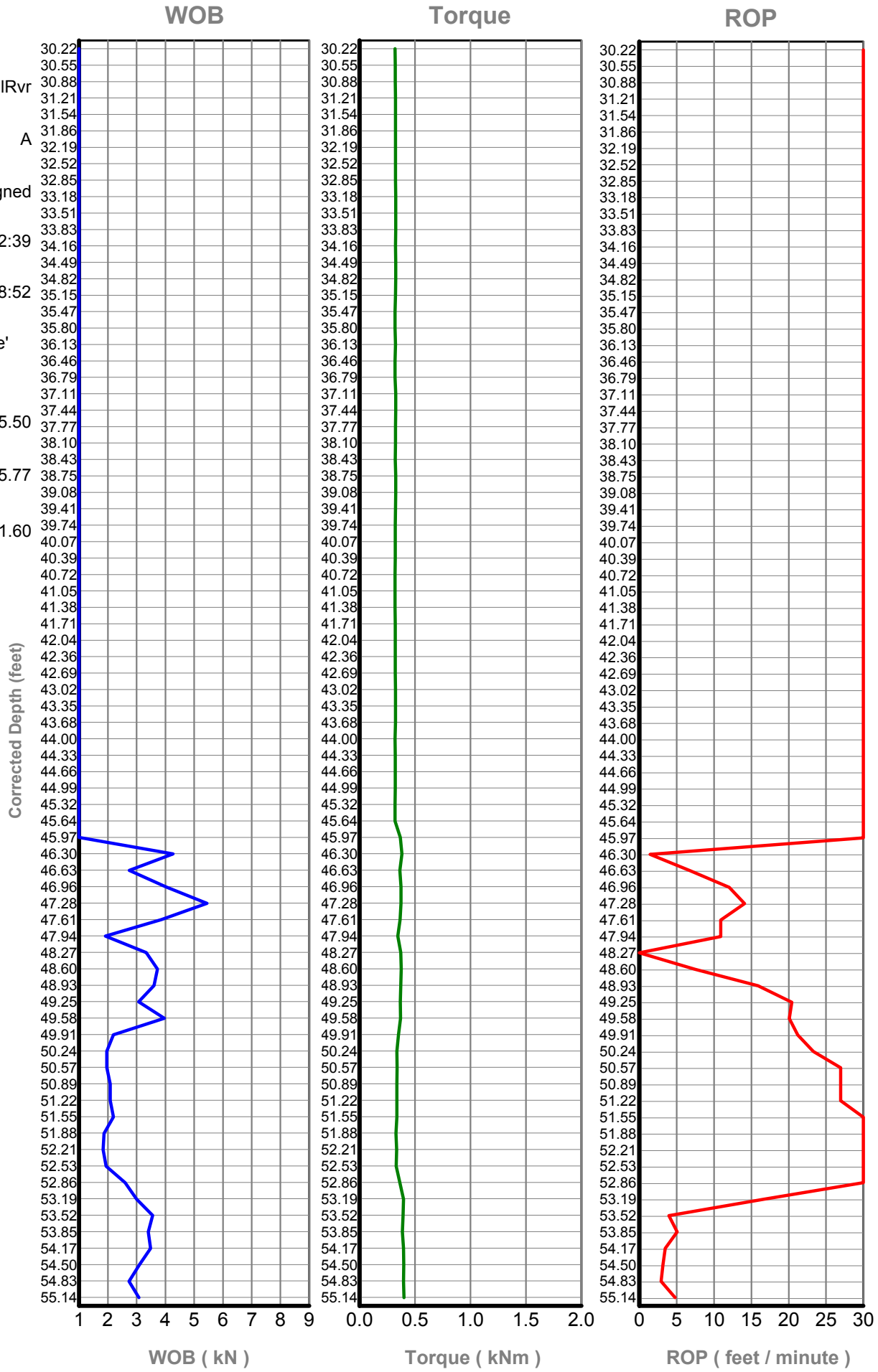
**End Date:**
4/22/2015 9:58:52

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
368,025.50

**Easting:**
252,325.77

**Tide (feet):**
1.60



## Hole: F43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 9:51:08 | 31.82 | 30.22 | 273 | 1.24 | 0.29 | 15.0 |
| 4/22/2015 9:51:10 | 32.15 | 30.55 | 269 | 1.26 | 0.28 | 14.7 |
| 4/22/2015 9:51:11 | 32.48 | 30.88 | 275 | 1.26 | 0.29 | 15.1 |
| 4/22/2015 9:51:12 | 32.81 | 31.21 | 277 | 1.24 | 0.28 | 15.2 |
| 4/22/2015 9:51:13 | 33.14 | 31.54 | 273 | 1.26 | 0.29 | 14.9 |
| 4/22/2015 9:51:15 | 33.46 | 31.86 | 269 | 1.23 | 0.29 | 14.7 |
| 4/22/2015 9:51:16 | 33.79 | 32.19 | 269 | 1.24 | 0.28 | 14.7 |
| 4/22/2015 9:51:18 | 34.12 | 32.52 | 272 | 1.25 | 0.29 | 14.9 |
| 4/22/2015 9:51:19 | 34.45 | 32.85 | 274 | 1.28 | 0.28 | 15.0 |
| 4/22/2015 9:51:20 | 34.78 | 33.18 | 272 | 1.27 | 0.28 | 14.9 |
| 4/22/2015 9:51:21 | 35.11 | 33.51 | 272 | 1.25 | 0.29 | 14.9 |
| 4/22/2015 9:51:23 | 35.43 | 33.83 | 272 | 1.30 | 0.28 | 14.9 |
| 4/22/2015 9:51:24 | 35.76 | 34.16 | 269 | 1.25 | 0.29 | 14.7 |
| 4/22/2015 9:51:25 | 36.09 | 34.49 | 272 | 1.25 | 0.29 | 14.9 |
| 4/22/2015 9:51:26 | 36.42 | 34.82 | 272 | 1.25 | 0.29 | 14.9 |
| 4/22/2015 9:51:28 | 36.75 | 35.15 | 272 | 1.26 | 0.29 | 14.9 |
| 4/22/2015 9:51:29 | 37.07 | 35.47 | 272 | 1.28 | 0.29 | 14.9 |
| 4/22/2015 9:51:31 | 37.40 | 35.80 | 269 | 1.24 | 0.29 | 14.7 |
| 4/22/2015 9:51:32 | 37.73 | 36.13 | 272 | 1.25 | 0.29 | 14.9 |
| 4/22/2015 9:51:33 | 38.06 | 36.46 | 275 | 1.26 | 0.29 | 15.0 |
| 4/22/2015 9:51:34 | 38.39 | 36.79 | 272 | 1.23 | 0.29 | 14.9 |
| 4/22/2015 9:51:36 | 38.71 | 37.11 | 266 | 1.25 | 0.29 | 14.5 |
| 4/22/2015 9:51:37 | 39.04 | 37.44 | 268 | 1.25 | 0.29 | 14.6 |
| 4/22/2015 9:51:39 | 39.37 | 37.77 | 275 | 1.26 | 0.29 | 15.0 |
| 4/22/2015 9:51:40 | 39.70 | 38.10 | 272 | 1.26 | 0.29 | 14.9 |
| 4/22/2015 9:51:41 | 40.03 | 38.43 | 270 | 1.24 | 0.29 | 14.8 |
| 4/22/2015 9:51:43 | 40.35 | 38.75 | 269 | 1.24 | 0.29 | 14.7 |
| 4/22/2015 9:51:44 | 40.68 | 39.08 | 273 | 1.36 | 0.29 | 15.0 |
| 4/22/2015 9:51:45 | 41.01 | 39.41 | 272 | 1.24 | 0.29 | 14.9 |
| 4/22/2015 9:51:46 | 41.34 | 39.74 | 269 | 1.25 | 0.29 | 14.7 |
| 4/22/2015 9:51:48 | 41.67 | 40.07 | 269 | 1.24 | 0.29 | 14.7 |
| 4/22/2015 9:51:49 | 41.99 | 40.39 | 269 | 1.26 | 0.29 | 14.7 |
| 4/22/2015 9:51:51 | 42.32 | 40.72 | 269 | 1.25 | 0.29 | 14.7 |
| 4/22/2015 9:51:52 | 42.65 | 41.05 | 267 | 1.26 | 0.29 | 14.6 |
| 4/22/2015 9:51:53 | 42.98 | 41.38 | 269 | 1.24 | 0.29 | 14.7 |
| 4/22/2015 9:51:55 | 43.31 | 41.71 | 269 | 1.26 | 0.29 | 14.7 |
| 4/22/2015 9:51:56 | 43.64 | 42.04 | 267 | 1.26 | 0.29 | 14.6 |
| 4/22/2015 9:51:57 | 43.96 | 42.36 | 269 | 1.25 | 0.29 | 14.7 |
| 4/22/2015 9:51:59 | 44.29 | 42.69 | 267 | 1.26 | 0.29 | 14.6 |
| 4/22/2015 9:52:00 | 44.62 | 43.02 | 265 | 1.26 | 0.29 | 14.5 |
| 4/22/2015 9:52:01 | 44.95 | 43.35 | 264 | 1.26 | 0.29 | 14.4 |
| 4/22/2015 9:52:03 | 45.28 | 43.68 | 266 | 1.27 | 0.29 | 14.6 |
| 4/22/2015 9:52:04 | 45.60 | 44.00 | 265 | 1.25 | 0.29 | 14.5 |
| 4/22/2015 9:52:05 | 45.93 | 44.33 | 266 | 1.26 | 0.29 | 14.5 |
| 4/22/2015 9:52:07 | 46.26 | 44.66 | 268 | 1.40 | 0.29 | 14.6 |
| 4/22/2015 9:52:28 | 46.59 | 44.99 | 75 | 1.66 | 1.51 | 4.1 |
| 4/22/2015 9:52:38 | 46.92 | 45.32 | 105 | 1.56 | 1.00 | 5.7 |
| 4/22/2015 9:52:42 | 47.24 | 45.64 | 110 | 1.44 | 0.96 | 6.0 |
| 4/22/2015 9:52:43 | 47.57 | 45.97 | 170 | 1.36 | 0.87 | 9.3 |
| 4/22/2015 9:52:45 | 47.90 | 46.30 | 208 | 1.30 | 0.88 | 11.4 |
| 4/22/2015 9:52:46 | 48.23 | 46.63 | 236 | 1.30 | 0.88 | 12.9 |
| 4/22/2015 9:52:48 | 48.56 | 46.96 | 249 | 1.32 | 0.89 | 13.6 |
| 4/22/2015 9:52:49 | 48.88 | 47.28 | 249 | 2.81 | 0.86 | 13.6 |
| 4/22/2015 9:52:49 | 49.21 | 47.61 | 311 | 3.01 | 0.95 | 17.0 |
| 4/22/2015 9:52:50 | 49.54 | 47.94 | 445 | 1.40 | 0.85 | 24.3 |
| 4/22/2015 9:52:52 | 49.87 | 48.27 | 462 | 1.29 | 0.85 | 25.3 |
| 4/22/2015 9:52:52 | 50.20 | 48.60 | 467 | 3.10 | 0.83 | 25.5 |
| 4/22/2015 9:52:53 | 50.53 | 48.93 | 492 | 1.07 | 0.88 | 26.9 |
| 4/22/2015 9:52:53 | 50.85 | 49.25 | 465 | 1.33 | 0.85 | 25.4 |
| 4/22/2015 9:52:55 | 51.18 | 49.58 | 465 | 1.35 | 0.85 | 25.4 |
| 4/22/2015 9:52:56 | 51.51 | 49.91 | 390 | 1.26 | 0.85 | 21.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 9:52:57 | 51.84 | 50.24 | 278 | 1.32 | 0.86 | 15.2 |
| 4/22/2015 | 9:52:58 | 52.17 | 50.57 | 276 | 1.31 | 0.84 | 15.1 |
| 4/22/2015 | 9:53:00 | 52.49 | 50.89 | 267 | 1.35 | 0.85 | 14.6 |
| 4/22/2015 | 9:53:02 | 52.82 | 51.22 | 260 | 1.44 | 0.90 | 14.2 |
| 4/22/2015 | 9:53:03 | 53.15 | 51.55 | 257 | 1.38 | 0.91 | 14.1 |
| 4/22/2015 | 9:53:04 | 53.48 | 51.88 | 254 | 1.32 | 0.86 | 13.9 |
| 4/22/2015 | 9:53:06 | 53.81 | 52.21 | 263 | 1.36 | 0.86 | 14.4 |
| 4/22/2015 | 9:53:07 | 54.13 | 52.53 | 260 | 1.38 | 0.86 | 14.2 |
| 4/22/2015 | 9:53:08 | 54.46 | 52.86 | 254 | 1.45 | 0.88 | 13.9 |
| 4/22/2015 | 9:53:10 | 54.79 | 53.19 | 250 | 1.36 | 0.85 | 13.7 |
| 4/22/2015 | 9:53:11 | 55.12 | 53.52 | 249 | 1.32 | 0.84 | 13.6 |
| 4/22/2015 | 9:53:13 | 55.45 | 53.85 | 253 | 1.36 | 0.90 | 13.8 |
| 4/22/2015 | 9:53:14 | 55.77 | 54.17 | 252 | 1.38 | 0.89 | 13.8 |
| 4/22/2015 | 9:53:16 | 56.10 | 54.50 | 252 | 1.34 | 0.86 | 13.8 |
| 4/22/2015 | 9:53:17 | 56.43 | 54.83 | 249 | 1.62 | 0.85 | 13.6 |
| 4/22/2015 | 9:53:18 | 56.76 | 55.16 | 251 | 1.37 | 0.85 | 13.7 |
| 4/22/2015 | 9:53:20 | 57.09 | 55.49 | 251 | 1.37 | 0.84 | 13.7 |
| 4/22/2015 | 9:53:21 | 57.41 | 55.81 | 246 | 1.34 | 0.85 | 13.5 |
| 4/22/2015 | 9:53:23 | 57.74 | 56.14 | 253 | 1.32 | 0.85 | 13.8 |
| 4/22/2015 | 9:53:23 | 57.79 | 56.19 | 253 | 1.32 | 0.85 | 13.8 |

## F43 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 9:48:18

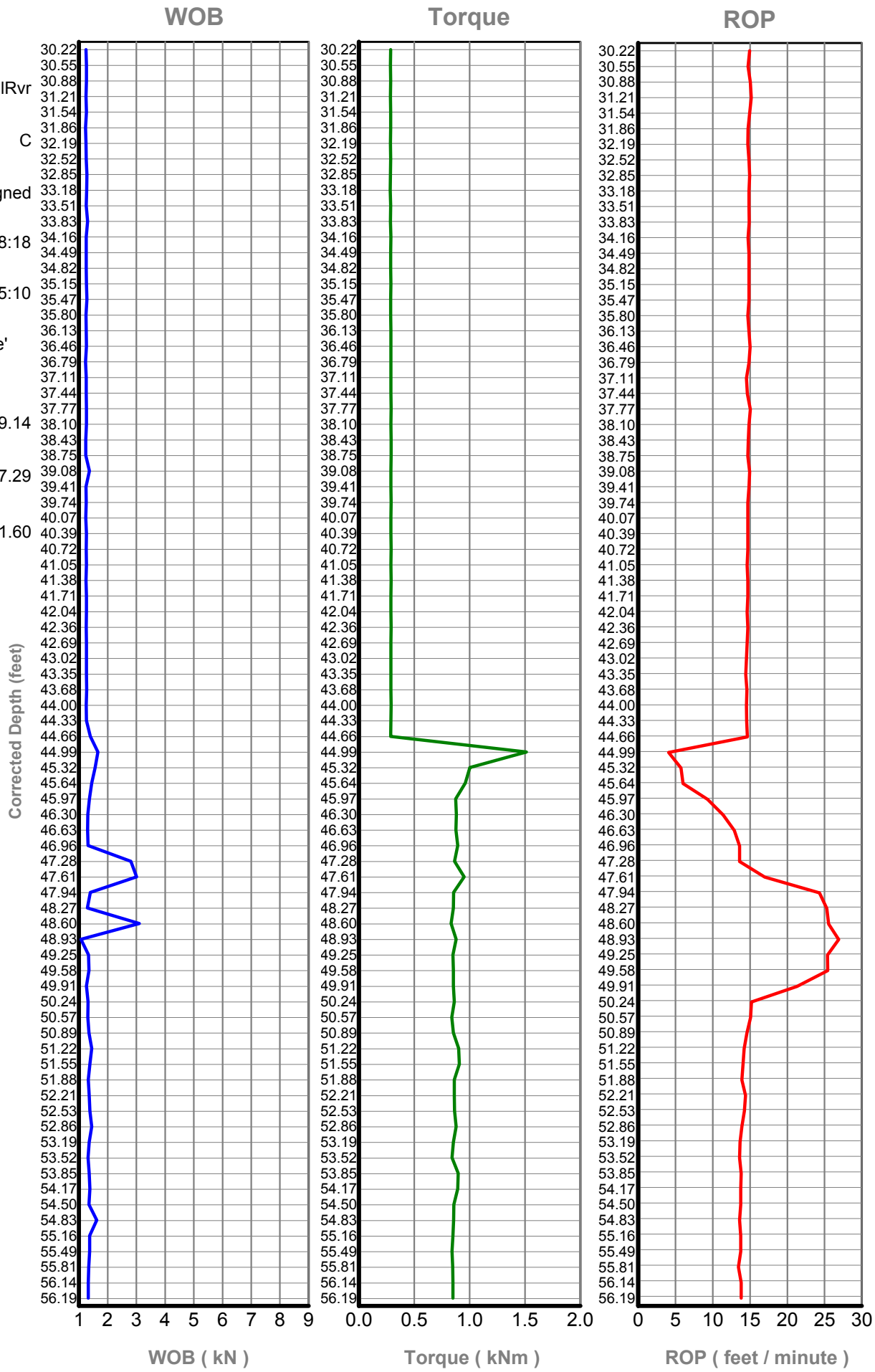
**End Date:**
4/22/2015 9:55:10

**Operator Note:**
'1.6 1.8 c Auto Complete'

**Northing:**
368,079.14

**Easting:**
252,387.29

**Tide (feet):**
1.60



## Hole: F44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:31:46 | 35.76 | 30.06 | 824 | 0.22 | 0.34 | 45.1 |
| 4/23/2015 3:31:46 | 36.09 | 30.39 | 804 | 0.22 | 0.34 | 44.0 |
| 4/23/2015 3:31:46 | 36.42 | 30.72 | 804 | 0.22 | 0.34 | 44.0 |
| 4/23/2015 3:31:47 | 36.75 | 31.05 | 808 | 0.22 | 0.31 | 44.2 |
| 4/23/2015 3:31:47 | 37.07 | 31.37 | 815 | 0.20 | 0.33 | 44.6 |
| 4/23/2015 3:31:48 | 37.40 | 31.70 | 833 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 3:31:48 | 37.73 | 32.03 | 833 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 3:31:48 | 38.06 | 32.36 | 826 | 0.22 | 0.33 | 45.2 |
| 4/23/2015 3:31:49 | 38.39 | 32.69 | 853 | 0.22 | 0.33 | 46.7 |
| 4/23/2015 3:31:50 | 38.71 | 33.01 | 834 | 0.24 | 0.33 | 45.6 |
| 4/23/2015 3:31:50 | 39.04 | 33.34 | 852 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 3:31:51 | 39.37 | 33.67 | 852 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 3:31:51 | 39.70 | 34.00 | 845 | 0.22 | 0.33 | 46.2 |
| 4/23/2015 3:31:51 | 40.03 | 34.33 | 845 | 0.22 | 0.34 | 46.2 |
| 4/23/2015 3:31:52 | 40.35 | 34.65 | 848 | 0.22 | 0.33 | 46.4 |
| 4/23/2015 3:31:52 | 40.68 | 34.98 | 851 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 3:31:53 | 41.01 | 35.31 | 851 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 3:31:53 | 41.34 | 35.64 | 852 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 3:31:53 | 41.67 | 35.97 | 844 | 0.21 | 0.34 | 46.1 |
| 4/23/2015 3:31:54 | 41.99 | 36.29 | 834 | 0.22 | 0.34 | 45.6 |
| 4/23/2015 3:31:54 | 42.32 | 36.62 | 834 | 0.22 | 0.33 | 45.6 |
| 4/23/2015 3:31:55 | 42.65 | 36.95 | 834 | 0.22 | 0.33 | 45.6 |
| 4/23/2015 3:31:55 | 42.98 | 37.28 | 844 | 0.22 | 0.33 | 46.2 |
| 4/23/2015 3:31:55 | 43.31 | 37.61 | 832 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 3:31:56 | 43.64 | 37.94 | 847 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 3:31:56 | 43.96 | 38.26 | 834 | 0.23 | 0.33 | 45.6 |
| 4/23/2015 3:31:57 | 44.29 | 38.59 | 834 | 0.23 | 0.33 | 45.6 |
| 4/23/2015 3:31:57 | 44.62 | 38.92 | 851 | 0.23 | 0.34 | 46.5 |
| 4/23/2015 3:31:57 | 44.95 | 39.25 | 851 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 3:31:58 | 45.28 | 39.58 | 845 | 0.22 | 0.33 | 46.2 |
| 4/23/2015 3:31:58 | 45.60 | 39.90 | 855 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:31:59 | 45.93 | 40.23 | 857 | 0.22 | 0.34 | 46.9 |
| 4/23/2015 3:31:59 | 46.26 | 40.56 | 857 | 0.22 | 0.34 | 46.9 |
| 4/23/2015 3:31:59 | 46.59 | 40.89 | 868 | 0.22 | 0.33 | 47.5 |
| 4/23/2015 3:32:00 | 46.92 | 41.22 | 858 | 0.22 | 0.33 | 46.9 |
| 4/23/2015 3:32:01 | 47.24 | 41.54 | 864 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 3:32:01 | 47.57 | 41.87 | 864 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 3:32:01 | 47.90 | 42.20 | 859 | 0.22 | 0.33 | 47.0 |
| 4/23/2015 3:32:02 | 48.23 | 42.53 | 854 | 0.22 | 0.33 | 46.7 |
| 4/23/2015 3:32:02 | 48.56 | 42.86 | 860 | 0.22 | 0.33 | 47.0 |
| 4/23/2015 3:32:03 | 48.88 | 43.18 | 855 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:32:03 | 49.21 | 43.51 | 855 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:32:03 | 49.54 | 43.84 | 842 | 0.22 | 0.34 | 46.0 |
| 4/23/2015 3:32:04 | 49.87 | 44.17 | 842 | 0.22 | 0.34 | 46.0 |
| 4/23/2015 3:32:04 | 50.20 | 44.50 | 854 | 0.22 | 0.33 | 46.7 |
| 4/23/2015 3:32:05 | 50.53 | 44.83 | 856 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:32:05 | 50.85 | 45.15 | 856 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:32:05 | 51.18 | 45.48 | 850 | 0.25 | 0.33 | 46.5 |
| 4/23/2015 3:32:06 | 51.51 | 45.81 | 846 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 3:32:06 | 51.84 | 46.14 | 856 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 3:32:07 | 52.17 | 46.47 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:07 | 52.49 | 46.79 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:08 | 52.82 | 47.12 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:08 | 53.15 | 47.45 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:08 | 53.48 | 47.78 | 832 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 3:32:09 | 53.81 | 48.11 | 845 | 0.22 | 0.34 | 46.2 |
| 4/23/2015 3:32:09 | 54.13 | 48.43 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:10 | 54.46 | 48.76 | 832 | 0.22 | 0.34 | 45.5 |
| 4/23/2015 3:32:10 | 54.79 | 49.09 | 832 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 3:32:10 | 55.12 | 49.42 | 853 | 0.21 | 0.37 | 46.7 |
| 4/23/2015 3:32:26 | 55.45 | 49.75 | 59 | 3.96 | 0.36 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 3:32:27 | 55.77 | 50.07 | 176 | 4.08 | 0.38 | 9.6 |
| 4/23/2015 | 3:32:34 | 56.10 | 50.40 | 14 | 4.66 | 0.39 | 0.8 |
| 4/23/2015 | 3:32:37 | 56.43 | 50.73 | 88 | 3.01 | 0.41 | 4.8 |
| 4/23/2015 | 3:32:47 | 56.76 | 51.06 | 36 | 3.30 | 0.41 | 2.0 |
| 4/23/2015 | 3:32:55 | 57.09 | 51.39 | 35 | 3.28 | 0.40 | 1.9 |
| 4/23/2015 | 3:33:06 | 57.41 | 51.71 | 41 | 3.19 | 0.41 | 2.2 |
| 4/23/2015 | 3:33:15 | 57.74 | 52.04 | 29 | 3.39 | 0.41 | 1.6 |
| 4/23/2015 | 3:33:17 | 57.83 | 52.13 | 41 | 3.79 | 0.41 | 2.2 |

## F44 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:27:26

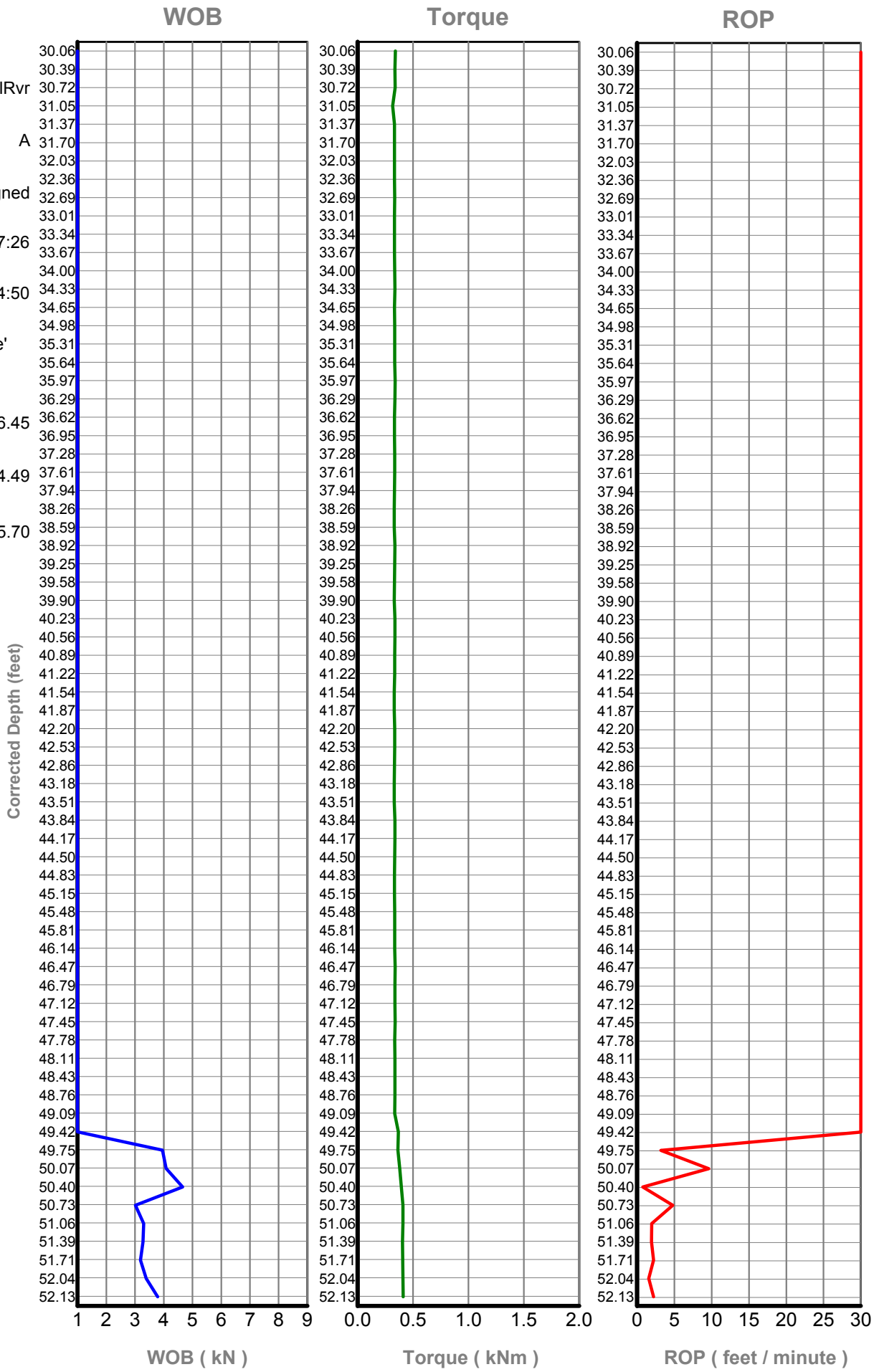
**End Date:**
4/23/2015 3:34:50

**Operator Note:**
'5.7 5.5 b Auto Complete'

**Northing:**
367,506.45

**Easting:**
251,814.49

**Tide (feet):**
5.70



## Hole: F45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:39:19 | 36.09 | 30.29 | 44 | 1.04 | 0.34 | 2.4 |
| 4/23/2015 3:39:20 | 36.42 | 30.62 | 210 | 0.24 | 0.33 | 11.5 |
| 4/23/2015 3:39:20 | 36.75 | 30.95 | 379 | 0.21 | 0.33 | 20.7 |
| 4/23/2015 3:39:21 | 37.07 | 31.27 | 564 | 0.21 | 0.33 | 30.8 |
| 4/23/2015 3:39:21 | 37.40 | 31.60 | 564 | 0.21 | 0.33 | 30.8 |
| 4/23/2015 3:39:21 | 37.73 | 31.93 | 744 | 0.21 | 0.33 | 40.7 |
| 4/23/2015 3:39:22 | 38.06 | 32.26 | 882 | 0.21 | 0.33 | 48.3 |
| 4/23/2015 3:39:22 | 38.39 | 32.59 | 894 | 0.21 | 0.33 | 48.9 |
| 4/23/2015 3:39:23 | 38.71 | 32.91 | 894 | 0.21 | 0.33 | 48.9 |
| 4/23/2015 3:39:23 | 39.04 | 33.24 | 899 | 0.21 | 0.34 | 49.2 |
| 4/23/2015 3:39:23 | 39.37 | 33.57 | 896 | 0.21 | 0.33 | 49.0 |
| 4/23/2015 3:39:24 | 39.70 | 33.90 | 890 | 0.21 | 0.34 | 48.7 |
| 4/23/2015 3:39:24 | 40.03 | 34.23 | 885 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 3:39:25 | 40.35 | 34.55 | 885 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 3:39:25 | 40.68 | 34.88 | 885 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 3:39:25 | 41.01 | 35.21 | 890 | 0.21 | 0.33 | 48.7 |
| 4/23/2015 3:39:26 | 41.34 | 35.54 | 890 | 0.21 | 0.33 | 48.7 |
| 4/23/2015 3:39:26 | 41.67 | 35.87 | 890 | 0.21 | 0.33 | 48.7 |
| 4/23/2015 3:39:26 | 41.99 | 36.19 | 893 | 0.21 | 0.33 | 48.8 |
| 4/23/2015 3:39:27 | 42.32 | 36.52 | 893 | 0.22 | 0.33 | 48.9 |
| 4/23/2015 3:39:27 | 42.65 | 36.85 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 3:39:28 | 42.98 | 37.18 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 3:39:28 | 43.31 | 37.51 | 902 | 0.21 | 0.33 | 49.3 |
| 4/23/2015 3:39:29 | 43.64 | 37.84 | 902 | 0.18 | 0.32 | 49.3 |
| 4/23/2015 3:39:29 | 43.96 | 38.16 | 902 | 0.20 | 0.33 | 49.3 |
| 4/23/2015 3:39:30 | 44.29 | 38.49 | 902 | 0.20 | 0.33 | 49.3 |
| 4/23/2015 3:39:30 | 44.62 | 38.82 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 3:39:30 | 44.95 | 39.15 | 896 | 0.21 | 0.33 | 49.0 |
| 4/23/2015 3:39:31 | 45.28 | 39.48 | 896 | 0.22 | 0.33 | 49.0 |
| 4/23/2015 3:39:31 | 45.60 | 39.80 | 896 | 0.22 | 0.33 | 49.0 |
| 4/23/2015 3:39:31 | 45.93 | 40.13 | 891 | 0.22 | 0.33 | 48.7 |
| 4/23/2015 3:39:32 | 46.26 | 40.46 | 899 | 0.21 | 0.33 | 49.2 |
| 4/23/2015 3:39:32 | 46.59 | 40.79 | 899 | 0.22 | 0.33 | 49.2 |
| 4/23/2015 3:39:33 | 46.92 | 41.12 | 899 | 0.22 | 0.33 | 49.2 |
| 4/23/2015 3:39:33 | 47.24 | 41.44 | 905 | 0.21 | 0.33 | 49.5 |
| 4/23/2015 3:39:33 | 47.57 | 41.77 | 895 | 0.21 | 0.33 | 48.9 |
| 4/23/2015 3:39:34 | 47.90 | 42.10 | 909 | 0.12 | 0.34 | 49.7 |
| 4/23/2015 3:39:34 | 48.23 | 42.43 | 903 | 0.21 | 0.33 | 49.4 |
| 4/23/2015 3:39:35 | 48.56 | 42.76 | 903 | 0.21 | 0.33 | 49.4 |
| 4/23/2015 3:39:35 | 48.88 | 43.08 | 886 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 3:39:35 | 49.21 | 43.41 | 886 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 3:39:36 | 49.54 | 43.74 | 889 | 0.22 | 0.33 | 48.6 |
| 4/23/2015 3:39:36 | 49.87 | 44.07 | 889 | 0.22 | 0.33 | 48.6 |
| 4/23/2015 3:39:36 | 50.20 | 44.40 | 896 | 0.22 | 0.33 | 49.0 |
| 4/23/2015 3:39:37 | 50.53 | 44.73 | 884 | 0.22 | 0.33 | 48.3 |
| 4/23/2015 3:39:37 | 50.85 | 45.05 | 882 | 0.22 | 0.33 | 48.2 |
| 4/23/2015 3:39:38 | 51.18 | 45.38 | 882 | 0.22 | 0.33 | 48.2 |
| 4/23/2015 3:39:38 | 51.51 | 45.71 | 904 | 0.22 | 0.33 | 49.4 |
| 4/23/2015 3:39:38 | 51.84 | 46.04 | 893 | 0.22 | 0.33 | 48.8 |
| 4/23/2015 3:39:39 | 52.17 | 46.37 | 901 | 0.21 | 0.33 | 49.3 |
| 4/23/2015 3:39:40 | 52.49 | 46.69 | 887 | 0.20 | 0.35 | 48.5 |
| 4/23/2015 3:39:40 | 52.82 | 47.02 | 887 | 0.20 | 0.35 | 48.5 |
| 4/23/2015 3:40:02 | 53.15 | 47.35 | 0 | 2.23 | 0.34 | 0.0 |
| 4/23/2015 3:40:02 | 53.48 | 47.68 | 63 | 2.86 | 0.36 | 3.4 |
| 4/23/2015 3:40:04 | 53.81 | 48.01 | 238 | 3.96 | 0.39 | 13.0 |
| 4/23/2015 3:40:22 | 54.13 | 48.33 | 43 | 3.69 | 0.40 | 2.4 |
| 4/23/2015 3:40:30 | 54.46 | 48.66 | 49 | 3.29 | 0.40 | 2.7 |
| 4/23/2015 3:40:37 | 54.79 | 48.99 | 71 | 4.17 | 0.39 | 3.9 |
| 4/23/2015 3:40:38 | 54.90 | 49.10 | 90 | 3.89 | 0.40 | 4.9 |

## F45 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:36:06

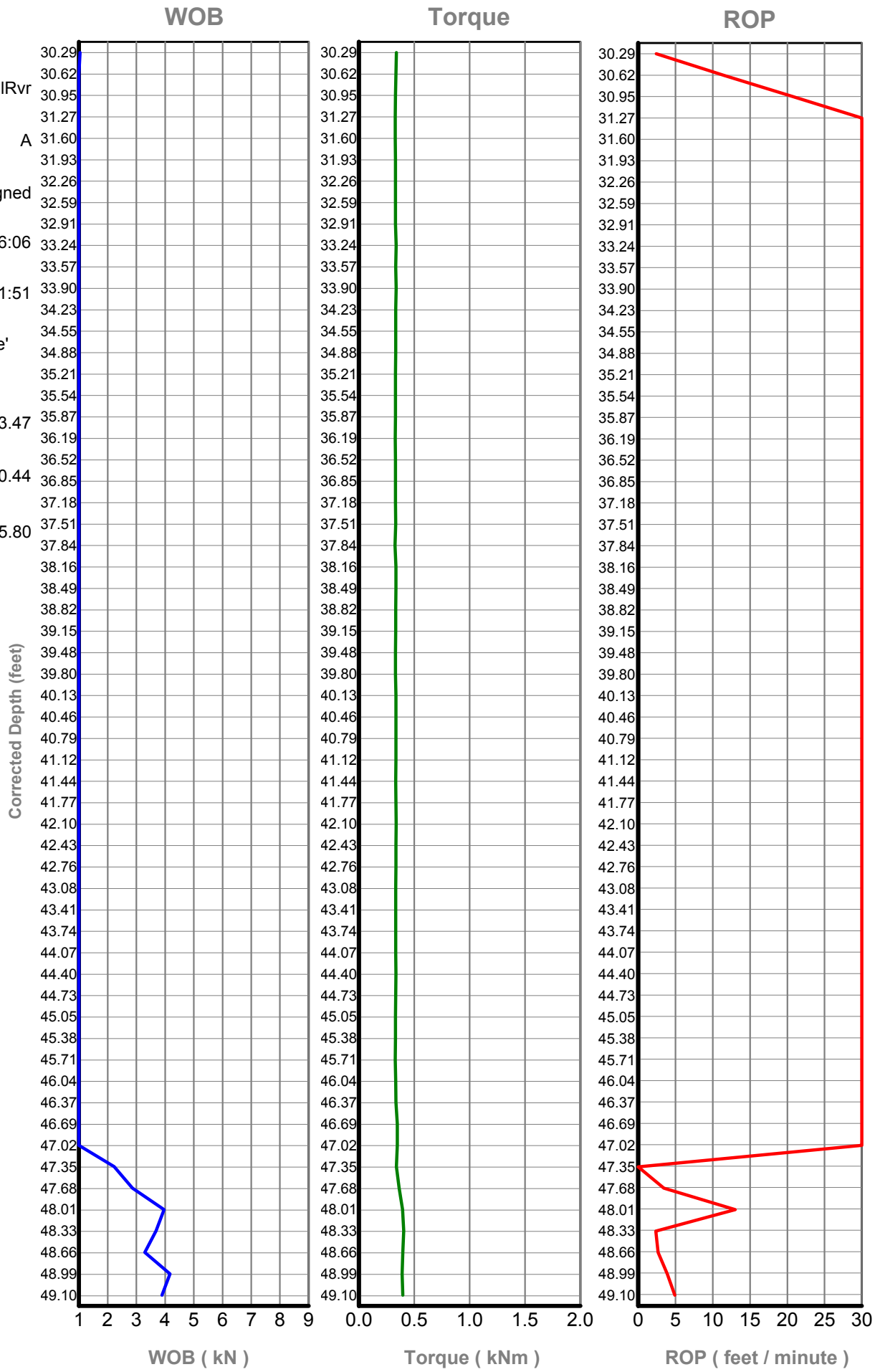
**End Date:**
4/23/2015 3:41:51

**Operator Note:**
'5.8 5.6 b Auto Complete'

**Northing:**
367,543.47

**Easting:**
251,860.44

**Tide (feet):**
5.80



## Hole: F46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:33:06 | 35.76 | 30.06 | 434 | 1.71 | 0.17 | 23.7 |
| 4/23/2015 3:33:07 | 36.09 | 30.39 | 434 | 1.70 | 0.17 | 23.7 |
| 4/23/2015 3:33:08 | 36.42 | 30.72 | 431 | 1.71 | 0.17 | 23.6 |
| 4/23/2015 3:33:09 | 36.75 | 31.05 | 431 | 1.71 | 0.18 | 23.6 |
| 4/23/2015 3:33:10 | 37.07 | 31.37 | 426 | 1.71 | 0.17 | 23.3 |
| 4/23/2015 3:33:11 | 37.40 | 31.70 | 430 | 1.70 | 0.17 | 23.5 |
| 4/23/2015 3:33:11 | 37.73 | 32.03 | 430 | 1.70 | 0.17 | 23.5 |
| 4/23/2015 3:33:12 | 38.06 | 32.36 | 430 | 1.70 | 0.17 | 23.5 |
| 4/23/2015 3:33:13 | 38.39 | 32.69 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:14 | 38.71 | 33.01 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:15 | 39.04 | 33.34 | 431 | 1.69 | 0.17 | 23.6 |
| 4/23/2015 3:33:15 | 39.37 | 33.67 | 434 | 1.71 | 0.17 | 23.7 |
| 4/23/2015 3:33:16 | 39.70 | 34.00 | 434 | 1.70 | 0.17 | 23.7 |
| 4/23/2015 3:33:17 | 40.03 | 34.33 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:18 | 40.35 | 34.65 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:19 | 40.68 | 34.98 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:20 | 41.01 | 35.31 | 431 | 1.71 | 0.18 | 23.6 |
| 4/23/2015 3:33:21 | 41.34 | 35.64 | 427 | 1.70 | 0.17 | 23.3 |
| 4/23/2015 3:33:21 | 41.67 | 35.97 | 427 | 1.70 | 0.17 | 23.3 |
| 4/23/2015 3:33:22 | 41.99 | 36.29 | 428 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:23 | 42.32 | 36.62 | 425 | 1.71 | 0.17 | 23.2 |
| 4/23/2015 3:33:24 | 42.65 | 36.95 | 435 | 1.70 | 0.17 | 23.8 |
| 4/23/2015 3:33:25 | 42.98 | 37.28 | 430 | 1.70 | 0.17 | 23.5 |
| 4/23/2015 3:33:25 | 43.31 | 37.61 | 426 | 1.69 | 0.17 | 23.3 |
| 4/23/2015 3:33:26 | 43.64 | 37.94 | 423 | 1.69 | 0.17 | 23.2 |
| 4/23/2015 3:33:27 | 43.96 | 38.26 | 429 | 1.72 | 0.17 | 23.5 |
| 4/23/2015 3:33:28 | 44.29 | 38.59 | 436 | 1.72 | 0.17 | 23.9 |
| 4/23/2015 3:33:29 | 44.62 | 38.92 | 420 | 1.70 | 0.17 | 22.9 |
| 4/23/2015 3:33:29 | 44.95 | 39.25 | 429 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:31 | 45.28 | 39.58 | 425 | 1.70 | 0.17 | 23.3 |
| 4/23/2015 3:33:32 | 45.60 | 39.90 | 432 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:32 | 45.93 | 40.23 | 428 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:33 | 46.26 | 40.56 | 431 | 1.70 | 0.17 | 23.6 |
| 4/23/2015 3:33:34 | 46.59 | 40.89 | 428 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:35 | 46.92 | 41.22 | 433 | 1.71 | 0.17 | 23.7 |
| 4/23/2015 3:33:36 | 47.24 | 41.54 | 425 | 1.70 | 0.17 | 23.3 |
| 4/23/2015 3:33:36 | 47.57 | 41.87 | 431 | 1.68 | 0.17 | 23.6 |
| 4/23/2015 3:33:37 | 47.90 | 42.20 | 428 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:38 | 48.23 | 42.53 | 428 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 3:33:39 | 48.56 | 42.86 | 425 | 1.70 | 0.17 | 23.2 |
| 4/23/2015 3:33:40 | 48.88 | 43.18 | 421 | 1.70 | 0.17 | 23.0 |
| 4/23/2015 3:33:41 | 49.21 | 43.51 | 424 | 1.75 | 0.17 | 23.2 |
| 4/23/2015 3:33:42 | 49.54 | 43.84 | 423 | 1.70 | 0.17 | 23.1 |
| 4/23/2015 3:33:42 | 49.87 | 44.17 | 424 | 1.72 | 0.17 | 23.2 |
| 4/23/2015 3:33:43 | 50.20 | 44.50 | 425 | 1.70 | 0.17 | 23.2 |
| 4/23/2015 3:33:44 | 50.53 | 44.83 | 426 | 1.70 | 0.17 | 23.3 |
| 4/23/2015 3:33:45 | 50.85 | 45.15 | 428 | 1.66 | 0.17 | 23.4 |
| 4/23/2015 3:33:46 | 51.18 | 45.48 | 422 | 1.72 | 0.17 | 23.1 |
| 4/23/2015 3:34:23 | 51.51 | 45.81 | 75 | 1.72 | 1.20 | 4.1 |
| 4/23/2015 3:34:25 | 51.84 | 46.14 | 171 | 1.70 | 1.19 | 9.3 |
| 4/23/2015 3:34:26 | 52.17 | 46.47 | 227 | 1.71 | 1.28 | 12.4 |
| 4/23/2015 3:34:28 | 52.49 | 46.79 | 248 | 1.71 | 1.19 | 13.6 |
| 4/23/2015 3:34:50 | 52.82 | 47.12 | 32 | 1.70 | 1.26 | 1.7 |
| 4/23/2015 3:34:57 | 53.15 | 47.45 | 49 | 1.68 | 1.26 | 2.7 |
| 4/23/2015 3:35:02 | 53.48 | 47.78 | 72 | 1.70 | 1.16 | 3.9 |
| 4/23/2015 3:35:10 | 53.81 | 48.11 | 37 | 1.72 | 1.13 | 2.0 |
| 4/23/2015 3:35:18 | 54.13 | 48.43 | 43 | 1.70 | 1.10 | 2.4 |
| 4/23/2015 3:35:24 | 54.34 | 48.64 | 35 | 1.71 | 1.20 | 1.9 |

## F46 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:29:13

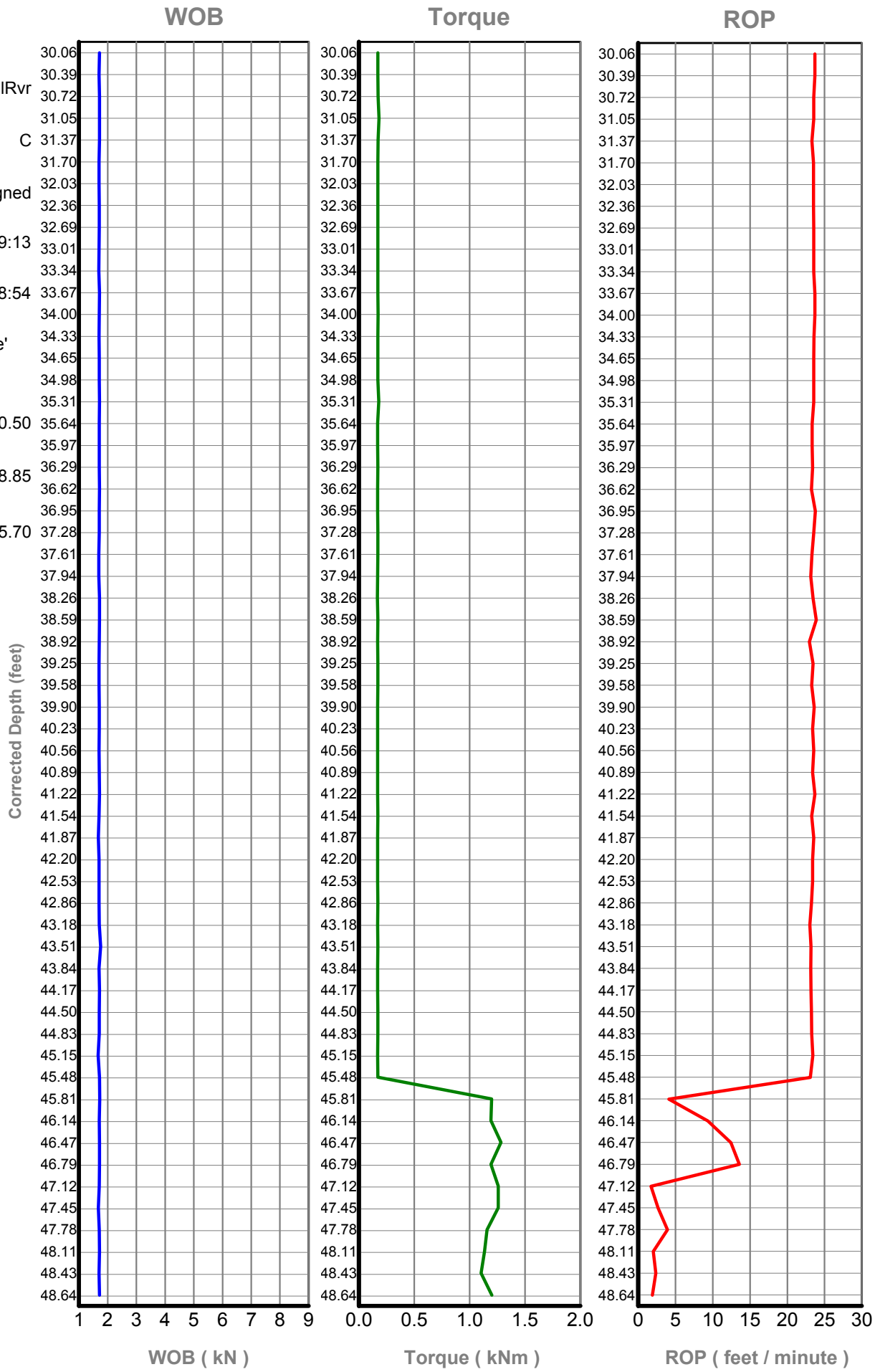
**End Date:**
4/23/2015 3:38:54

**Operator Note:**
'5.7 5.5c Auto Complete'

**Northing:**
367,590.50

**Easting:**
251,918.85

**Tide (feet):**
5.70



## Hole: F47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:09:09 | 31.17 | 30.27 | 901 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 23:09:09 | 31.50 | 30.60 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:09:10 | 31.82 | 30.92 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:09:10 | 32.15 | 31.25 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 23:09:11 | 32.48 | 31.58 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 23:09:11 | 32.81 | 31.91 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 23:09:11 | 33.14 | 32.24 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 23:09:12 | 33.46 | 32.56 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 23:09:12 | 33.79 | 32.89 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 23:09:13 | 34.12 | 33.22 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 23:09:13 | 34.45 | 33.55 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:09:13 | 34.78 | 33.88 | 895 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 23:09:14 | 35.11 | 34.21 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:15 | 35.43 | 34.53 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:15 | 35.76 | 34.86 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:15 | 36.09 | 35.19 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:16 | 36.42 | 35.52 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:16 | 36.75 | 35.85 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 23:09:16 | 37.07 | 36.17 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 23:09:17 | 37.40 | 36.50 | 888 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 23:09:17 | 37.73 | 36.83 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 23:09:18 | 38.06 | 37.16 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 23:09:18 | 38.39 | 37.49 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 23:09:18 | 38.71 | 37.81 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:09:19 | 39.04 | 38.14 | 911 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:09:19 | 39.37 | 38.47 | 911 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:09:19 | 39.70 | 38.80 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:09:20 | 40.03 | 39.13 | 926 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:09:20 | 40.35 | 39.45 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:09:21 | 40.68 | 39.78 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 23:09:21 | 41.01 | 40.11 | 923 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 23:09:21 | 41.34 | 40.44 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 23:09:22 | 41.67 | 40.77 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 23:09:22 | 41.99 | 41.09 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 23:09:22 | 42.32 | 41.42 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:09:23 | 42.65 | 41.75 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:09:23 | 42.98 | 42.08 | 900 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 23:09:24 | 43.31 | 42.41 | 911 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:09:24 | 43.64 | 42.74 | 911 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 23:09:24 | 43.96 | 43.06 | 917 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 23:09:25 | 44.29 | 43.39 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 23:09:26 | 44.62 | 43.72 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 23:09:26 | 44.95 | 44.05 | 923 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 23:09:26 | 45.28 | 44.38 | 933 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 23:09:27 | 45.60 | 44.70 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 23:09:45 | 45.93 | 45.03 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 23:09:47 | 46.26 | 45.36 | 143 | 1.66 | 1.29 | 7.8 |
| 4/22/2015 23:09:51 | 46.59 | 45.69 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 23:09:53 | 46.92 | 46.02 | 182 | 1.66 | 1.29 | 9.9 |
| 4/22/2015 23:09:59 | 47.24 | 46.34 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 23:10:05 | 47.57 | 46.67 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 23:10:28 | 47.90 | 47.00 | 50 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 23:10:34 | 48.23 | 47.33 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 23:10:42 | 48.56 | 47.66 | 52 | 1.66 | 1.29 | 2.8 |
| 4/22/2015 23:10:46 | 48.83 | 47.93 | 72 | 1.66 | 1.29 | 4.0 |

## F47 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:05:45

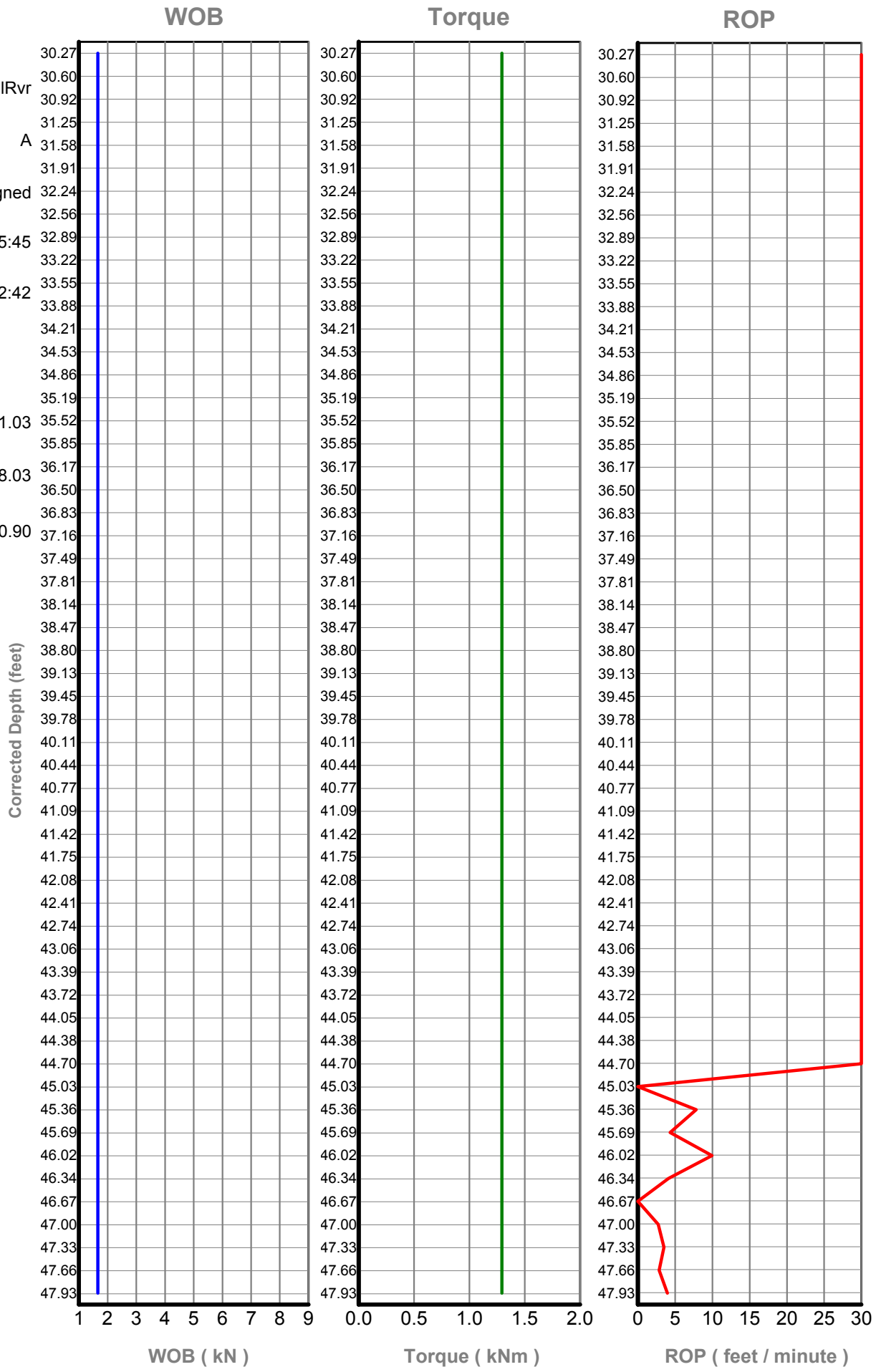
**End Date:**
4/22/2015 23:12:42

**Operator Note:**
'0.9 1 b Auto Complete'

**Northing:**
367,641.03

**Easting:**
251,978.03

**Tide (feet):**
0.90



## Hole: F48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:16:20 | 30.84 | 30.04 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 23:16:20 | 31.17 | 30.37 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:21 | 31.50 | 30.70 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:21 | 31.82 | 31.02 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:21 | 32.15 | 31.35 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:22 | 32.48 | 31.68 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:22 | 32.81 | 32.01 | 962 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:22 | 33.14 | 32.34 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:23 | 33.46 | 32.66 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 23:16:23 | 33.79 | 32.99 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 23:16:23 | 34.12 | 33.32 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:24 | 34.45 | 33.65 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 23:16:24 | 34.78 | 33.98 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:25 | 35.11 | 34.31 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:25 | 35.43 | 34.63 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 23:16:26 | 35.76 | 34.96 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 23:16:26 | 36.09 | 35.29 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 23:16:26 | 36.42 | 35.62 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 23:16:27 | 36.75 | 35.95 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 23:16:27 | 37.07 | 36.27 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 23:16:28 | 37.40 | 36.60 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 23:16:28 | 37.73 | 36.93 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:28 | 38.06 | 37.26 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:29 | 38.39 | 37.59 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:29 | 38.71 | 37.91 | 962 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 23:16:29 | 39.04 | 38.24 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:30 | 39.37 | 38.57 | 969 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 23:16:30 | 39.70 | 38.90 | 969 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 23:16:30 | 40.03 | 39.23 | 969 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 23:16:31 | 40.35 | 39.55 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:31 | 40.68 | 39.88 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:31 | 41.01 | 40.21 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:32 | 41.34 | 40.54 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:32 | 41.67 | 40.87 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:33 | 41.99 | 41.19 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:33 | 42.32 | 41.52 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 23:16:33 | 42.65 | 41.85 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 23:16:34 | 42.98 | 42.18 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 23:16:34 | 43.31 | 42.51 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:34 | 43.64 | 42.84 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 23:16:35 | 43.96 | 43.16 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:35 | 44.29 | 43.49 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 23:16:35 | 44.62 | 43.82 | 968 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 23:16:36 | 44.95 | 44.15 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:37 | 45.28 | 44.48 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 23:16:37 | 45.60 | 44.80 | 944 | 1.66 | 1.29 | 51.6 |
| 4/22/2015 23:16:37 | 45.93 | 45.13 | 938 | 1.66 | 1.29 | 51.3 |
| 4/22/2015 23:16:54 | 46.26 | 45.46 | 62 | 1.66 | 1.29 | 3.4 |
| 4/22/2015 23:17:01 | 46.59 | 45.79 | 77 | 1.66 | 1.29 | 4.2 |
| 4/22/2015 23:17:14 | 46.92 | 46.12 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 23:17:20 | 47.24 | 46.44 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 23:17:25 | 47.57 | 46.77 | 69 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 23:17:31 | 47.90 | 47.10 | 63 | 1.66 | 1.29 | 3.4 |
| 4/22/2015 23:17:31 | 47.93 | 47.13 | 63 | 1.66 | 1.29 | 3.4 |

## F48 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:13:49

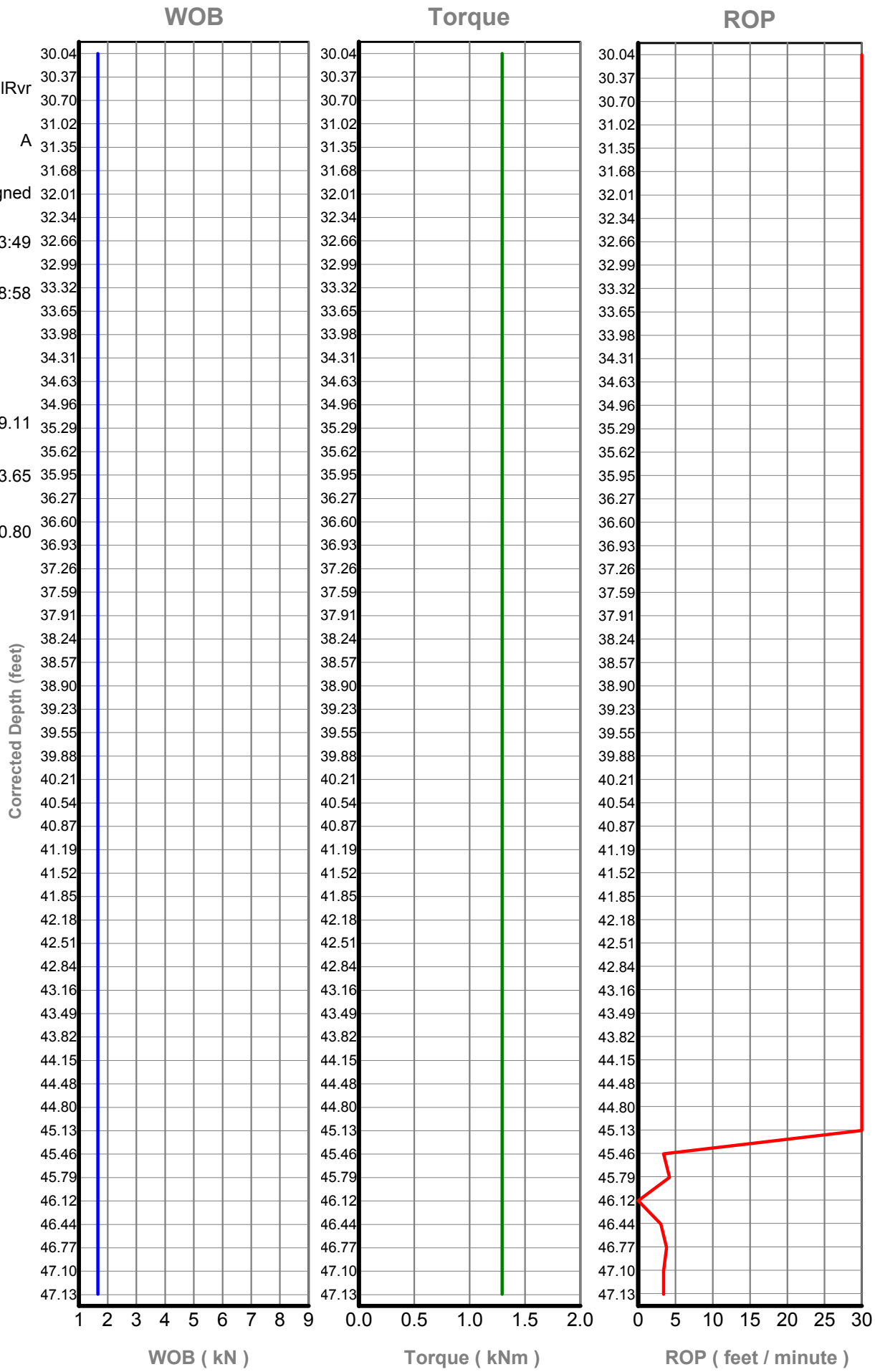
**End Date:**
4/22/2015 23:18:58

**Operator Note:**
'0.8 .9 b Auto Complete'

**Northing:**
367,679.11

**Easting:**
252,023.65

**Tide (feet):**
0.80



## Hole: F49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 23:09:31 | 31.17 | 30.27 | 429 | 1.68 | 0.16 | 23.4 |
| 4/22/2015 23:09:32 | 31.50 | 30.60 | 434 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:33 | 31.82 | 30.92 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:34 | 32.15 | 31.25 | 433 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:35 | 32.48 | 31.58 | 431 | 1.69 | 0.16 | 23.6 |
| 4/22/2015 23:09:35 | 32.81 | 31.91 | 434 | 1.68 | 0.17 | 23.7 |
| 4/22/2015 23:09:36 | 33.14 | 32.24 | 437 | 1.68 | 0.16 | 23.9 |
| 4/22/2015 23:09:38 | 33.46 | 32.56 | 434 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:38 | 33.79 | 32.89 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:39 | 34.12 | 33.22 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:40 | 34.45 | 33.55 | 434 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:41 | 34.78 | 33.88 | 436 | 1.67 | 0.16 | 23.9 |
| 4/22/2015 23:09:41 | 35.11 | 34.21 | 434 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:42 | 35.43 | 34.53 | 424 | 1.68 | 0.16 | 23.2 |
| 4/22/2015 23:09:43 | 35.76 | 34.86 | 429 | 1.67 | 0.16 | 23.5 |
| 4/22/2015 23:09:44 | 36.09 | 35.19 | 426 | 1.66 | 0.16 | 23.3 |
| 4/22/2015 23:09:45 | 36.42 | 35.52 | 429 | 1.67 | 0.16 | 23.5 |
| 4/22/2015 23:09:45 | 36.75 | 35.85 | 436 | 1.69 | 0.16 | 23.9 |
| 4/22/2015 23:09:46 | 37.07 | 36.17 | 428 | 1.68 | 0.16 | 23.4 |
| 4/22/2015 23:09:47 | 37.40 | 36.50 | 431 | 1.66 | 0.16 | 23.6 |
| 4/22/2015 23:09:48 | 37.73 | 36.83 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:49 | 38.06 | 37.16 | 436 | 1.68 | 0.16 | 23.9 |
| 4/22/2015 23:09:50 | 38.39 | 37.49 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:51 | 38.71 | 37.81 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:52 | 39.04 | 38.14 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:52 | 39.37 | 38.47 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:53 | 39.70 | 38.80 | 434 | 1.68 | 0.16 | 23.7 |
| 4/22/2015 23:09:54 | 40.03 | 39.13 | 434 | 1.69 | 0.15 | 23.7 |
| 4/22/2015 23:09:55 | 40.35 | 39.45 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:56 | 40.68 | 39.78 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:56 | 41.01 | 40.11 | 431 | 1.66 | 0.16 | 23.6 |
| 4/22/2015 23:09:57 | 41.34 | 40.44 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:09:58 | 41.67 | 40.77 | 431 | 1.69 | 0.16 | 23.6 |
| 4/22/2015 23:09:59 | 41.99 | 41.09 | 428 | 1.69 | 0.16 | 23.4 |
| 4/22/2015 23:10:00 | 42.32 | 41.42 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:10:01 | 42.65 | 41.75 | 428 | 1.67 | 0.16 | 23.4 |
| 4/22/2015 23:10:02 | 42.98 | 42.08 | 431 | 1.67 | 0.16 | 23.6 |
| 4/22/2015 23:10:02 | 43.31 | 42.41 | 430 | 1.70 | 0.16 | 23.5 |
| 4/22/2015 23:10:03 | 43.64 | 42.74 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:10:04 | 43.96 | 43.06 | 433 | 1.70 | 0.16 | 23.7 |
| 4/22/2015 23:10:05 | 44.29 | 43.39 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:10:06 | 44.62 | 43.72 | 431 | 1.67 | 0.16 | 23.6 |
| 4/22/2015 23:10:06 | 44.95 | 44.05 | 425 | 1.67 | 0.16 | 23.3 |
| 4/22/2015 23:10:07 | 45.28 | 44.38 | 428 | 1.69 | 0.16 | 23.4 |
| 4/22/2015 23:10:08 | 45.60 | 44.70 | 431 | 1.43 | 0.16 | 23.5 |
| 4/22/2015 23:10:09 | 45.93 | 45.03 | 431 | 1.68 | 0.16 | 23.5 |
| 4/22/2015 23:10:10 | 46.26 | 45.36 | 431 | 1.68 | 0.16 | 23.6 |
| 4/22/2015 23:10:55 | 46.59 | 45.69 | 0 | 1.68 | 1.16 | 0.0 |
| 4/22/2015 23:10:56 | 46.92 | 46.02 | 81 | 1.70 | 1.22 | 4.4 |
| 4/22/2015 23:11:07 | 47.24 | 46.34 | 47 | 1.66 | 1.33 | 2.6 |
| 4/22/2015 23:11:18 | 47.57 | 46.67 | 0 | 1.70 | 1.54 | 0.0 |
| 4/22/2015 23:11:29 | 47.90 | 47.00 | 0 | 1.62 | 1.54 | 0.0 |
| 4/22/2015 23:11:49 | 48.23 | 47.33 | 6 | 1.69 | 1.09 | 0.3 |
| 4/22/2015 23:11:56 | 48.56 | 47.66 | 52 | 1.68 | 1.08 | 2.8 |
| 4/22/2015 23:12:04 | 48.88 | 47.98 | 47 | 1.70 | 1.17 | 2.5 |
| 4/22/2015 23:12:10 | 49.21 | 48.31 | 57 | 1.68 | 1.10 | 3.1 |
| 4/22/2015 23:12:15 | 49.41 | 48.51 | 43 | 1.72 | 1.17 | 2.4 |

## F49 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 23:07:49

**End Date:**
4/22/2015 23:17:54

**Operator Note:**
'0.9 !.0 c Auto Complete'

**Northing:**
367,727.51

**Easting:**
252,080.94

**Tide (feet):**
0.90



## Hole: F5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:46:03 | 32.15 | 30.25 | 900 | 0.20 | 0.33 | 49.2 |
| 4/23/2015 0:46:04 | 32.48 | 30.58 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 0:46:04 | 32.81 | 30.91 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 0:46:05 | 33.14 | 31.24 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 0:46:05 | 33.46 | 31.56 | 878 | 0.20 | 0.33 | 48.0 |
| 4/23/2015 0:46:05 | 33.79 | 31.89 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 0:46:06 | 34.12 | 32.22 | 890 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 0:46:06 | 34.45 | 32.55 | 890 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 0:46:06 | 34.78 | 32.88 | 890 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 0:46:07 | 35.11 | 33.21 | 878 | 0.20 | 0.33 | 48.0 |
| 4/23/2015 0:46:07 | 35.43 | 33.53 | 884 | 0.22 | 0.33 | 48.3 |
| 4/23/2015 0:46:08 | 35.76 | 33.86 | 884 | 0.22 | 0.33 | 48.3 |
| 4/23/2015 0:46:08 | 36.09 | 34.19 | 884 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 0:46:08 | 36.42 | 34.52 | 894 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 0:46:09 | 36.75 | 34.85 | 891 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 0:46:09 | 37.07 | 35.17 | 891 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 0:46:09 | 37.40 | 35.50 | 907 | 0.20 | 0.33 | 49.6 |
| 4/23/2015 0:46:10 | 37.73 | 35.83 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 0:46:10 | 38.06 | 36.16 | 925 | 0.20 | 0.33 | 50.6 |
| 4/23/2015 0:46:11 | 38.39 | 36.49 | 908 | 0.20 | 0.33 | 49.6 |
| 4/23/2015 0:46:11 | 38.71 | 36.81 | 908 | 0.20 | 0.33 | 49.6 |
| 4/23/2015 0:46:11 | 39.04 | 37.14 | 914 | 0.20 | 0.33 | 50.0 |
| 4/23/2015 0:46:12 | 39.37 | 37.47 | 908 | 0.20 | 0.33 | 49.6 |
| 4/23/2015 0:46:13 | 39.70 | 37.80 | 902 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 0:46:13 | 40.03 | 38.13 | 902 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 0:46:13 | 40.35 | 38.45 | 893 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 0:46:14 | 40.68 | 38.78 | 894 | 0.27 | 0.33 | 48.9 |
| 4/23/2015 0:46:14 | 41.01 | 39.11 | 902 | 0.19 | 0.33 | 49.4 |
| 4/23/2015 0:46:15 | 41.34 | 39.44 | 902 | 0.19 | 0.33 | 49.4 |
| 4/23/2015 0:46:15 | 41.67 | 39.77 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 0:46:15 | 41.99 | 40.09 | 911 | 0.20 | 0.33 | 49.8 |
| 4/23/2015 0:46:16 | 42.32 | 40.42 | 917 | 0.20 | 0.33 | 50.1 |
| 4/23/2015 0:46:16 | 42.65 | 40.75 | 917 | 0.20 | 0.33 | 50.1 |
| 4/23/2015 0:46:16 | 42.98 | 41.08 | 922 | 0.20 | 0.33 | 50.4 |
| 4/23/2015 0:46:17 | 43.31 | 41.41 | 910 | 0.20 | 0.33 | 49.8 |
| 4/23/2015 0:46:17 | 43.64 | 41.74 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 0:46:18 | 43.96 | 42.06 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 0:46:18 | 44.29 | 42.39 | 908 | 0.20 | 0.42 | 49.6 |
| 4/23/2015 0:46:18 | 44.62 | 42.72 | 899 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 0:46:19 | 44.95 | 43.05 | 899 | 0.18 | 0.28 | 49.2 |
| 4/23/2015 0:47:08 | 45.28 | 43.38 | 78 | 0.20 | 0.33 | 4.3 |
| 4/23/2015 0:47:08 | 45.60 | 43.70 | 78 | 0.20 | 0.33 | 4.3 |
| 4/23/2015 0:47:08 | 45.93 | 44.03 | 258 | 0.21 | 0.33 | 14.1 |
| 4/23/2015 0:47:09 | 46.26 | 44.36 | 429 | 0.20 | 0.35 | 23.5 |
| 4/23/2015 0:47:11 | 46.59 | 44.69 | 402 | 0.20 | 0.40 | 22.0 |
| 4/23/2015 0:47:32 | 46.92 | 45.02 | 0 | 5.83 | 0.38 | 0.0 |
| 4/23/2015 0:47:41 | 47.24 | 45.34 | 11 | 2.99 | 0.35 | 0.6 |
| 4/23/2015 0:47:42 | 47.57 | 45.67 | 147 | 3.91 | 0.38 | 8.0 |
| 4/23/2015 0:47:51 | 47.90 | 46.00 | 6 | 4.00 | 0.37 | 0.3 |
| 4/23/2015 0:47:52 | 48.23 | 46.33 | 139 | 4.67 | 0.40 | 7.6 |
| 4/23/2015 0:47:57 | 48.56 | 46.66 | 101 | 4.84 | 0.40 | 5.5 |
| 4/23/2015 0:48:01 | 48.88 | 46.98 | 84 | 5.19 | 0.40 | 4.6 |
| 4/23/2015 0:48:02 | 49.21 | 47.31 | 157 | 3.51 | 0.38 | 8.6 |
| 4/23/2015 0:48:03 | 49.54 | 47.64 | 209 | 4.02 | 0.38 | 11.4 |
| 4/23/2015 0:48:04 | 49.87 | 47.97 | 314 | 3.25 | 0.37 | 17.2 |
| 4/23/2015 0:48:13 | 50.20 | 48.30 | 33 | 5.73 | 0.43 | 1.8 |
| 4/23/2015 0:48:15 | 50.53 | 48.63 | 110 | 3.94 | 0.38 | 6.0 |
| 4/23/2015 0:48:17 | 50.85 | 48.95 | 210 | 3.54 | 0.37 | 11.5 |
| 4/23/2015 0:48:18 | 51.18 | 49.28 | 289 | 3.63 | 0.38 | 15.8 |
| 4/23/2015 0:48:19 | 51.51 | 49.61 | 295 | 4.47 | 0.38 | 16.1 |
| 4/23/2015 0:48:21 | 51.84 | 49.94 | 287 | 4.13 | 0.38 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:48:22 | 52.17 | 50.27 | 284 | 3.52 | 0.38 | 15.5 |
| 4/23/2015 | 0:48:23 | 52.49 | 50.59 | 269 | 4.26 | 0.39 | 14.7 |
| 4/23/2015 | 0:48:25 | 52.82 | 50.92 | 201 | 4.59 | 0.39 | 11.0 |
| 4/23/2015 | 0:49:34 | 53.15 | 51.25 | 87 | 4.66 | 0.38 | 4.8 |
| 4/23/2015 | 0:49:35 | 53.48 | 51.58 | 190 | 4.01 | 0.38 | 10.4 |
| 4/23/2015 | 0:49:36 | 53.81 | 51.91 | 266 | 3.35 | 0.36 | 14.5 |
| 4/23/2015 | 0:49:38 | 54.13 | 52.23 | 255 | 3.87 | 0.39 | 13.9 |
| 4/23/2015 | 0:49:57 | 54.46 | 52.56 | 65 | 3.89 | 0.38 | 3.6 |
| 4/23/2015 | 0:49:58 | 54.79 | 52.89 | 187 | 4.87 | 0.39 | 10.2 |
| 4/23/2015 | 0:50:00 | 55.12 | 53.22 | 288 | 3.90 | 0.38 | 15.7 |
| 4/23/2015 | 0:50:02 | 55.45 | 53.55 | 263 | 4.08 | 0.38 | 14.4 |
| 4/23/2015 | 0:50:03 | 55.77 | 53.87 | 250 | 3.62 | 0.38 | 13.7 |
| 4/23/2015 | 0:50:04 | 56.10 | 54.20 | 241 | 4.24 | 0.39 | 13.2 |
| 4/23/2015 | 0:50:06 | 56.43 | 54.53 | 217 | 3.86 | 0.40 | 11.8 |
| 4/23/2015 | 0:50:08 | 56.76 | 54.86 | 202 | 4.41 | 0.39 | 11.1 |
| 4/23/2015 | 0:50:09 | 56.97 | 55.07 | 217 | 4.03 | 0.39 | 11.8 |

## F5 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:42:38

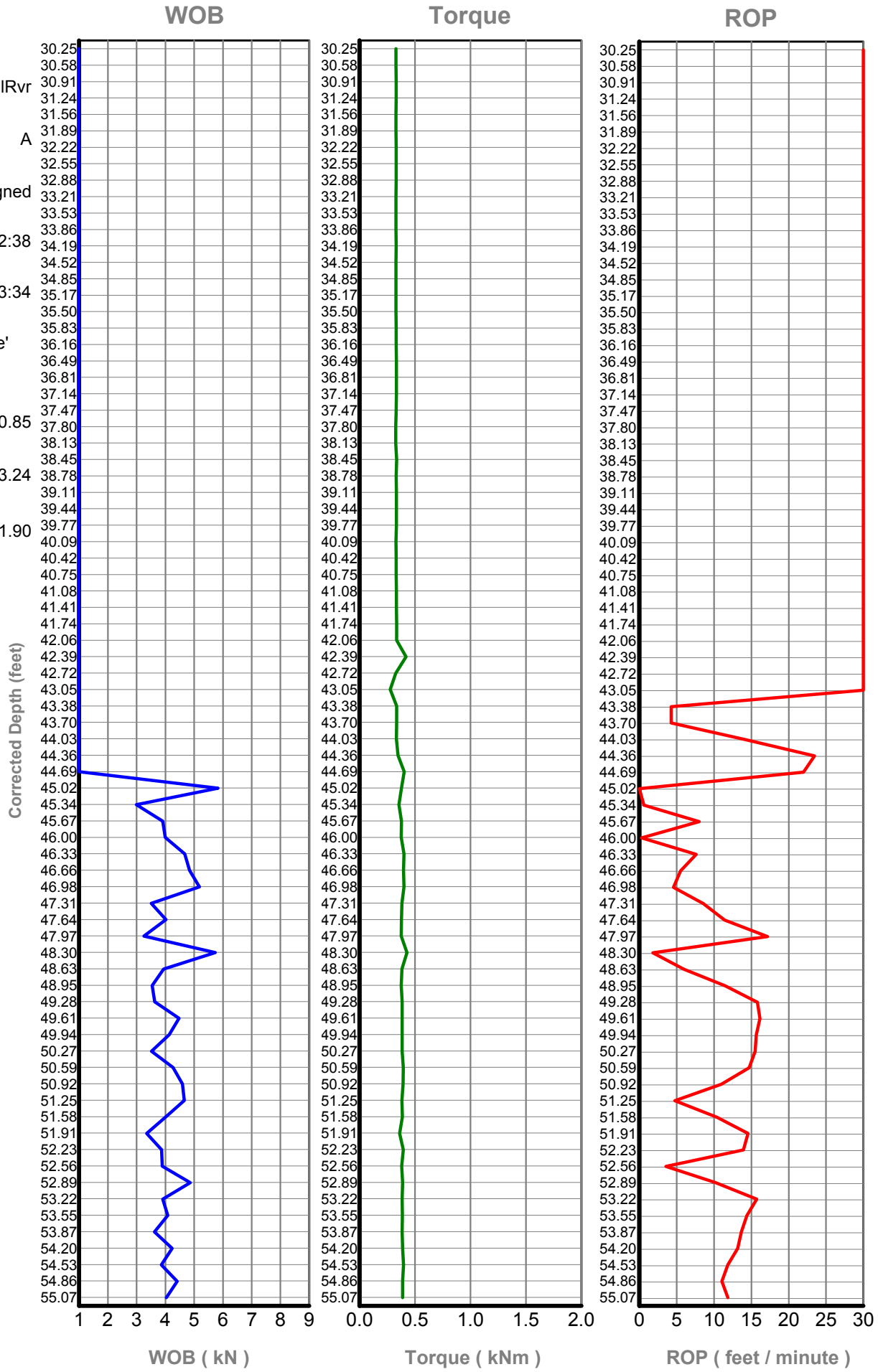
**End Date:**
4/23/2015 0:53:34

**Operator Note:**
'1.9 1.8 b Auto Complete'

**Northing:**
367,820.85

**Easting:**
251,843.24

**Tide (feet):**
1.90



## Hole: F50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 12:54:40 | 32.81 | 30.01 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 12:54:41 | 33.14 | 30.34 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 12:54:41 | 33.46 | 30.66 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 12:54:41 | 33.79 | 30.99 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 12:54:42 | 34.12 | 31.32 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:42 | 34.45 | 31.65 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:43 | 34.78 | 31.98 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:43 | 35.11 | 32.31 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:43 | 35.43 | 32.63 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 12:54:44 | 35.76 | 32.96 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 12:54:45 | 36.09 | 33.29 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 12:54:45 | 36.42 | 33.62 | 895 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 12:54:45 | 36.75 | 33.95 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 12:54:46 | 37.07 | 34.27 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 12:54:46 | 37.40 | 34.60 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 12:54:46 | 37.73 | 34.93 | 895 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:47 | 38.06 | 35.26 | 901 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 12:54:47 | 38.39 | 35.59 | 901 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 12:54:48 | 38.71 | 35.91 | 901 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 12:54:48 | 39.04 | 36.24 | 895 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:48 | 39.37 | 36.57 | 895 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:49 | 39.70 | 36.90 | 912 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:49 | 40.03 | 37.23 | 912 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 12:54:49 | 40.35 | 37.55 | 903 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 12:54:50 | 40.68 | 37.88 | 903 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 12:54:50 | 41.01 | 38.21 | 910 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 12:54:51 | 41.34 | 38.54 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 12:54:51 | 41.67 | 38.87 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 12:54:51 | 41.99 | 39.19 | 889 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 12:54:52 | 42.32 | 39.52 | 889 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 12:54:52 | 42.65 | 39.85 | 894 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:53 | 42.98 | 40.18 | 894 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:53 | 43.31 | 40.51 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 12:54:53 | 43.64 | 40.84 | 890 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 12:54:54 | 43.96 | 41.16 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 12:54:54 | 44.29 | 41.49 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 12:54:54 | 44.62 | 41.82 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 12:54:55 | 44.95 | 42.15 | 894 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:55 | 45.28 | 42.48 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 12:54:56 | 45.60 | 42.80 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 12:54:57 | 45.93 | 43.13 | 892 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 12:54:57 | 46.26 | 43.46 | 894 | 1.66 | 1.29 | 48.9 |
| 4/22/2015 12:54:57 | 46.59 | 43.79 | 880 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 12:54:58 | 46.92 | 44.12 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 12:54:58 | 47.24 | 44.44 | 874 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 12:54:58 | 47.57 | 44.77 | 882 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 12:54:59 | 47.90 | 45.10 | 880 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 12:54:59 | 48.23 | 45.43 | 880 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 12:55:00 | 48.56 | 45.76 | 897 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 12:55:00 | 48.88 | 46.08 | 897 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 12:55:08 | 49.21 | 46.41 | 131 | 1.66 | 1.29 | 7.1 |
| 4/22/2015 12:55:08 | 49.54 | 46.74 | 202 | 1.66 | 1.29 | 11.0 |
| 4/22/2015 12:55:09 | 49.87 | 47.07 | 281 | 1.66 | 1.29 | 15.4 |
| 4/22/2015 12:55:10 | 50.20 | 47.40 | 366 | 1.66 | 1.29 | 20.0 |
| 4/22/2015 12:55:11 | 50.53 | 47.73 | 361 | 1.66 | 1.29 | 19.8 |
| 4/22/2015 12:55:12 | 50.85 | 48.05 | 356 | 1.66 | 1.29 | 19.5 |
| 4/22/2015 12:55:13 | 51.18 | 48.38 | 377 | 1.66 | 1.29 | 20.6 |
| 4/22/2015 12:55:14 | 51.51 | 48.71 | 392 | 1.66 | 1.29 | 21.5 |
| 4/22/2015 12:55:15 | 51.84 | 49.04 | 390 | 1.66 | 1.29 | 21.3 |
| 4/22/2015 12:55:16 | 52.17 | 49.37 | 384 | 1.66 | 1.29 | 21.0 |
| 4/22/2015 12:55:17 | 52.49 | 49.69 | 356 | 1.66 | 1.29 | 19.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 12:55:18 | 52.82 | 50.02 | 314 | 1.66 | 1.29 | 17.2 |
| 4/22/2015 | 12:55:20 | 53.15 | 50.35 | 311 | 1.66 | 1.29 | 17.0 |
| 4/22/2015 | 12:55:23 | 53.48 | 50.68 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 12:55:29 | 53.81 | 51.01 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 | 12:55:35 | 54.13 | 51.33 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 12:55:39 | 54.46 | 51.66 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 12:55:41 | 54.79 | 51.99 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 | 12:55:46 | 55.12 | 52.32 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 12:55:51 | 55.45 | 52.65 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 12:56:38 | 55.77 | 52.97 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 | 12:56:44 | 56.10 | 53.30 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 12:56:49 | 56.43 | 53.63 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 | 12:56:55 | 56.76 | 53.96 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 12:56:59 | 57.09 | 54.29 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 12:57:18 | 57.41 | 54.61 | 20 | 1.66 | 1.29 | 1.1 |
| 4/22/2015 | 12:57:23 | 57.74 | 54.94 | 71 | 1.66 | 1.29 | 3.9 |

## F50 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 12:52:03

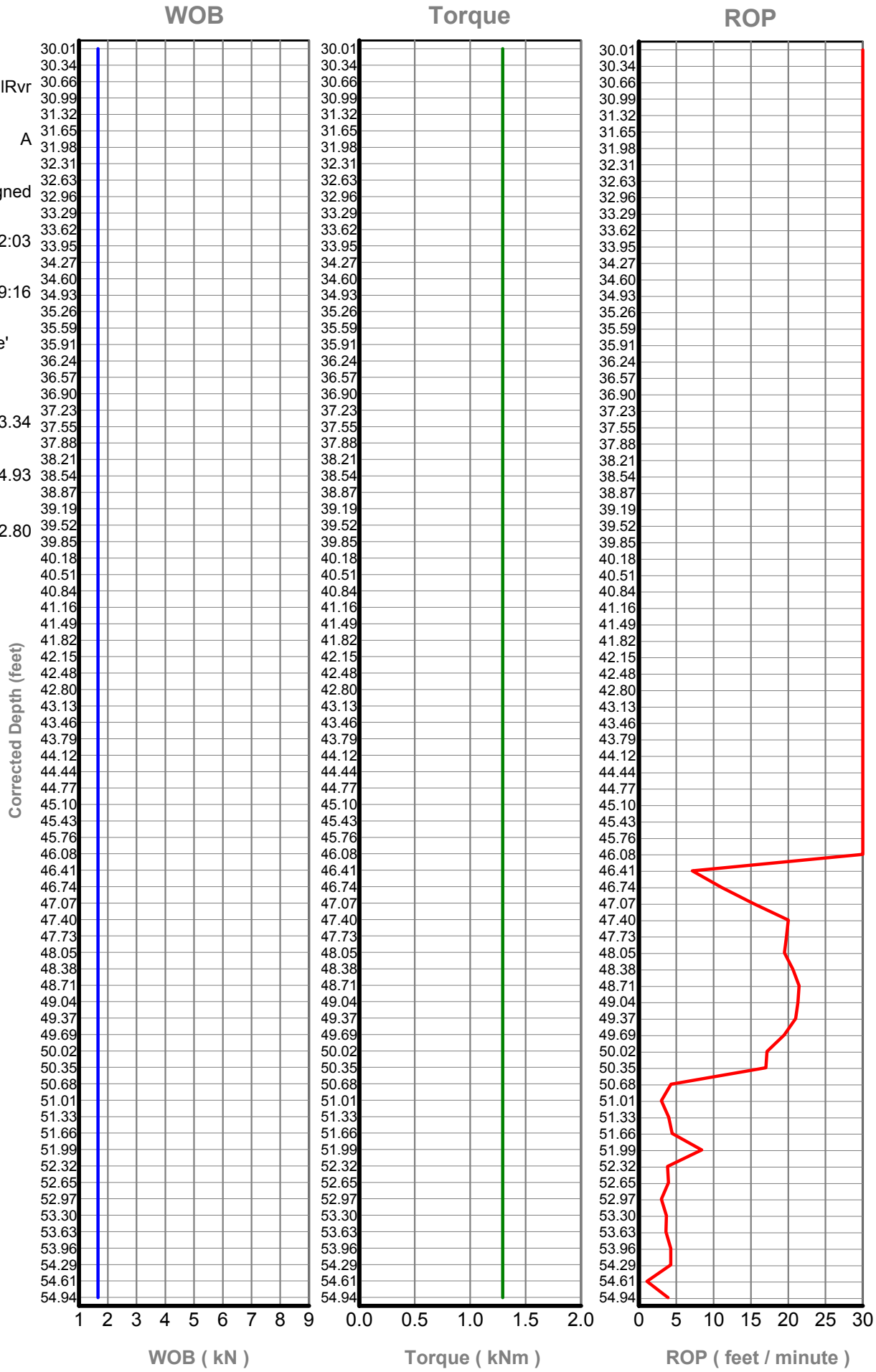
**End Date:**
4/22/2015 12:59:16

**Operator Note:**
'2.8 2.6 b Auto Complete'

**Northing:**
367,793.34

**Easting:**
252,154.93

**Tide (feet):**
2.80



## Hole: F51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 13:05:00 | 33.14 | 30.14 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 13:05:01 | 33.46 | 30.46 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 13:05:01 | 33.79 | 30.79 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 13:05:01 | 34.12 | 31.12 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 13:05:02 | 34.45 | 31.45 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 13:05:02 | 34.78 | 31.78 | 940 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 13:05:02 | 35.11 | 32.11 | 952 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:03 | 35.43 | 32.43 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:03 | 35.76 | 32.76 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:03 | 36.09 | 33.09 | 952 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:04 | 36.42 | 33.42 | 943 | 1.66 | 1.29 | 51.6 |
| 4/22/2015 13:05:04 | 36.75 | 33.75 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:05 | 37.07 | 34.07 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:05 | 37.40 | 34.40 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:05 | 37.73 | 34.73 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 13:05:06 | 38.06 | 35.06 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 13:05:06 | 38.39 | 35.39 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 13:05:06 | 38.71 | 35.71 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:07 | 39.04 | 36.04 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:07 | 39.37 | 36.37 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:07 | 39.70 | 36.70 | 946 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 13:05:08 | 40.03 | 37.03 | 937 | 1.66 | 1.29 | 51.3 |
| 4/22/2015 13:05:08 | 40.35 | 37.35 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:09 | 40.68 | 37.68 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 13:05:09 | 41.01 | 38.01 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:09 | 41.34 | 38.34 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 13:05:10 | 41.67 | 38.67 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 13:05:10 | 41.99 | 38.99 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 13:05:10 | 42.32 | 39.32 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:11 | 42.65 | 39.65 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 13:05:11 | 42.98 | 39.98 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 13:05:11 | 43.31 | 40.31 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:12 | 43.64 | 40.64 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:13 | 43.96 | 40.96 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:13 | 44.29 | 41.29 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 13:05:13 | 44.62 | 41.62 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 13:05:14 | 44.95 | 41.95 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 13:05:14 | 45.28 | 42.28 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 13:05:15 | 45.60 | 42.60 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 13:05:15 | 45.93 | 42.93 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 13:05:15 | 46.26 | 43.26 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 13:05:16 | 46.59 | 43.59 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 13:05:16 | 46.92 | 43.92 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 13:05:16 | 47.24 | 44.24 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 13:05:17 | 47.57 | 44.57 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 13:05:17 | 47.90 | 44.90 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 13:05:29 | 48.23 | 45.23 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 13:05:30 | 48.56 | 45.56 | 183 | 1.66 | 1.29 | 10.0 |
| 4/22/2015 13:05:37 | 48.88 | 45.88 | 65 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 13:05:38 | 49.21 | 46.21 | 210 | 1.66 | 1.29 | 11.5 |
| 4/22/2015 13:05:48 | 49.54 | 46.54 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 13:05:52 | 49.87 | 46.87 | 52 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 13:05:53 | 50.20 | 47.20 | 174 | 1.66 | 1.29 | 9.5 |
| 4/22/2015 13:05:54 | 50.53 | 47.53 | 336 | 1.66 | 1.29 | 18.4 |
| 4/22/2015 13:05:54 | 50.85 | 47.85 | 445 | 1.66 | 1.29 | 24.4 |
| 4/22/2015 13:05:55 | 51.18 | 48.18 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 13:05:56 | 51.51 | 48.51 | 518 | 1.66 | 1.29 | 28.3 |
| 4/22/2015 13:05:56 | 51.84 | 48.84 | 520 | 1.66 | 1.29 | 28.5 |
| 4/22/2015 13:05:58 | 52.17 | 49.17 | 352 | 1.66 | 1.29 | 19.3 |
| 4/22/2015 13:05:59 | 52.49 | 49.49 | 299 | 1.66 | 1.29 | 16.4 |
| 4/22/2015 13:06:00 | 52.82 | 49.82 | 314 | 1.66 | 1.29 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 13:06:01 | 53.15 | 50.15 | 320 | 1.66 | 1.29 | 17.5 |
| 4/22/2015 | 13:06:02 | 53.48 | 50.48 | 314 | 1.66 | 1.29 | 17.2 |
| 4/22/2015 | 13:06:04 | 53.81 | 50.81 | 324 | 1.66 | 1.29 | 17.7 |
| 4/22/2015 | 13:06:05 | 54.13 | 51.13 | 295 | 1.66 | 1.29 | 16.1 |
| 4/22/2015 | 13:06:08 | 54.46 | 51.46 | 116 | 1.66 | 1.29 | 6.3 |
| 4/22/2015 | 13:06:12 | 54.79 | 51.79 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 13:06:16 | 55.12 | 52.12 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 13:06:20 | 55.45 | 52.45 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 13:06:25 | 55.77 | 52.77 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 13:06:30 | 56.10 | 53.10 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 | 13:06:34 | 56.43 | 53.43 | 96 | 1.66 | 1.29 | 5.3 |
| 4/22/2015 | 13:06:38 | 56.76 | 53.76 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 13:06:45 | 57.09 | 54.09 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 | 13:06:52 | 57.41 | 54.41 | 52 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 | 13:06:58 | 57.74 | 54.74 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 | 13:06:59 | 57.81 | 54.81 | 52 | 1.66 | 1.29 | 2.9 |

## F51 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 13:00:10

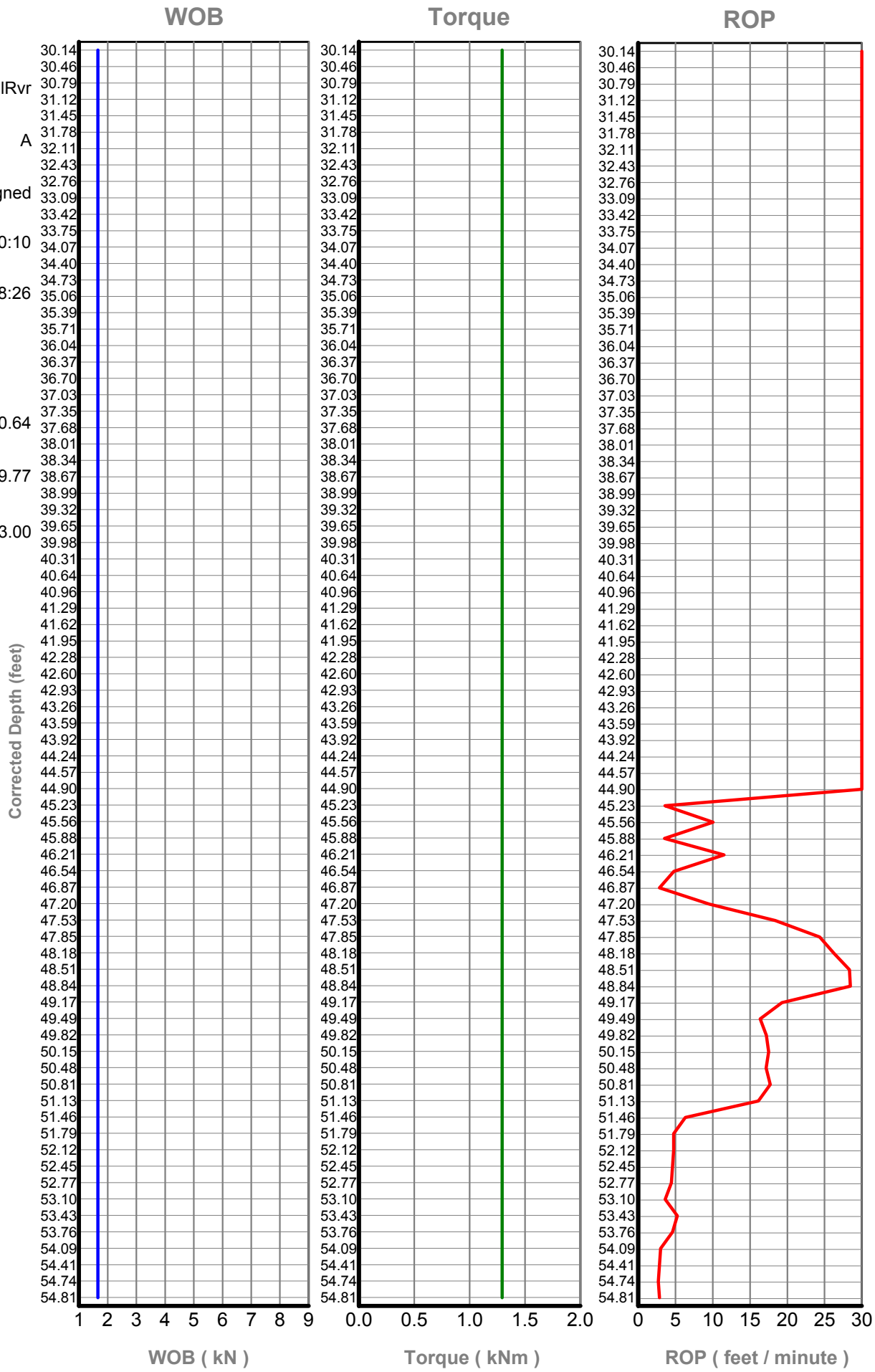
**End Date:**
4/22/2015 13:08:26

**Operator Note:**
'3 2.8 b Rock'

**Northing:**
367,830.64

**Easting:**
252,199.77

**Tide (feet):**
3.00



## Hole: F52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 13:07:10 | 33.46 | 30.26 | 526 | 1.72 | 0.29 | 28.8 |
| 4/22/2015 13:07:10 | 33.79 | 30.59 | 526 | 1.72 | 0.29 | 28.8 |
| 4/22/2015 13:07:11 | 34.12 | 30.92 | 523 | 1.71 | 0.21 | 28.6 |
| 4/22/2015 13:07:12 | 34.45 | 31.25 | 520 | 1.68 | 0.29 | 28.4 |
| 4/22/2015 13:07:13 | 34.78 | 31.58 | 526 | 1.70 | 0.29 | 28.8 |
| 4/22/2015 13:07:13 | 35.11 | 31.91 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 13:07:14 | 35.43 | 32.23 | 520 | 1.71 | 0.29 | 28.5 |
| 4/22/2015 13:07:15 | 35.76 | 32.56 | 523 | 1.73 | 0.29 | 28.6 |
| 4/22/2015 13:07:15 | 36.09 | 32.89 | 509 | 1.72 | 0.29 | 27.8 |
| 4/22/2015 13:07:16 | 36.42 | 33.22 | 515 | 1.72 | 0.29 | 28.2 |
| 4/22/2015 13:07:17 | 36.75 | 33.55 | 521 | 1.71 | 0.29 | 28.5 |
| 4/22/2015 13:07:17 | 37.07 | 33.87 | 524 | 1.71 | 0.29 | 28.7 |
| 4/22/2015 13:07:18 | 37.40 | 34.20 | 530 | 1.70 | 0.29 | 29.0 |
| 4/22/2015 13:07:19 | 37.73 | 34.53 | 526 | 1.69 | 0.29 | 28.8 |
| 4/22/2015 13:07:19 | 38.06 | 34.86 | 523 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 13:07:20 | 38.39 | 35.19 | 523 | 1.72 | 0.30 | 28.6 |
| 4/22/2015 13:07:21 | 38.71 | 35.51 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 13:07:21 | 39.04 | 35.84 | 523 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 13:07:22 | 39.37 | 36.17 | 520 | 1.72 | 0.29 | 28.5 |
| 4/22/2015 13:07:23 | 39.70 | 36.50 | 520 | 1.72 | 0.29 | 28.5 |
| 4/22/2015 13:07:24 | 40.03 | 36.83 | 520 | 1.68 | 0.29 | 28.5 |
| 4/22/2015 13:07:24 | 40.35 | 37.15 | 520 | 1.71 | 0.29 | 28.5 |
| 4/22/2015 13:07:25 | 40.68 | 37.48 | 523 | 1.68 | 0.29 | 28.6 |
| 4/22/2015 13:07:26 | 41.01 | 37.81 | 523 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 13:07:26 | 41.34 | 38.14 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 13:07:27 | 41.67 | 38.47 | 523 | 1.71 | 0.29 | 28.6 |
| 4/22/2015 13:07:28 | 41.99 | 38.79 | 520 | 1.70 | 0.29 | 28.5 |
| 4/22/2015 13:07:28 | 42.32 | 39.12 | 517 | 1.72 | 0.29 | 28.3 |
| 4/22/2015 13:07:29 | 42.65 | 39.45 | 520 | 1.69 | 0.27 | 28.4 |
| 4/22/2015 13:07:30 | 42.98 | 39.78 | 517 | 1.71 | 0.29 | 28.3 |
| 4/22/2015 13:07:30 | 43.31 | 40.11 | 517 | 1.73 | 0.29 | 28.3 |
| 4/22/2015 13:07:31 | 43.64 | 40.44 | 523 | 1.71 | 0.29 | 28.6 |
| 4/22/2015 13:07:32 | 43.96 | 40.76 | 517 | 1.70 | 0.29 | 28.3 |
| 4/22/2015 13:07:33 | 44.29 | 41.09 | 520 | 1.70 | 0.29 | 28.5 |
| 4/22/2015 13:07:33 | 44.62 | 41.42 | 517 | 1.71 | 0.29 | 28.3 |
| 4/22/2015 13:07:34 | 44.95 | 41.75 | 515 | 1.66 | 0.29 | 28.2 |
| 4/22/2015 13:07:35 | 45.28 | 42.08 | 521 | 1.70 | 0.29 | 28.5 |
| 4/22/2015 13:07:35 | 45.60 | 42.40 | 512 | 1.70 | 0.29 | 28.0 |
| 4/22/2015 13:07:36 | 45.93 | 42.73 | 512 | 1.70 | 0.29 | 28.0 |
| 4/22/2015 13:07:53 | 46.26 | 43.06 | 39 | 1.69 | 1.15 | 2.2 |
| 4/22/2015 13:07:59 | 46.59 | 43.39 | 49 | 1.68 | 1.13 | 2.7 |
| 4/22/2015 13:08:06 | 46.92 | 43.72 | 58 | 1.69 | 1.14 | 3.2 |
| 4/22/2015 13:08:11 | 47.24 | 44.04 | 73 | 1.69 | 1.06 | 4.0 |
| 4/22/2015 13:08:16 | 47.57 | 44.37 | 63 | 1.67 | 1.09 | 3.4 |
| 4/22/2015 13:08:22 | 47.90 | 44.70 | 49 | 1.69 | 1.12 | 2.7 |
| 4/22/2015 13:08:31 | 48.23 | 45.03 | 40 | 1.70 | 1.09 | 2.2 |
| 4/22/2015 13:08:39 | 48.56 | 45.36 | 49 | 1.68 | 1.06 | 2.7 |
| 4/22/2015 13:08:46 | 48.88 | 45.68 | 44 | 1.68 | 1.15 | 2.4 |
| 4/22/2015 13:08:51 | 49.10 | 45.90 | 46 | 1.65 | 1.16 | 2.5 |

## F52 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 13:05:15

**End Date:**
4/22/2015 13:10:07

**Operator Note:**
'3.2 3.0 c Auto Complete'

**Northing:**
367,875.80

**Easting:**
252,256.51

**Tide (feet):**
3.20



## Hole: F53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:06:08 | 31.82 | 30.32 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/22/2015 10:06:09 | 32.15 | 30.65 | 1,027 | 0.32 | 0.31 | 56.2 |
| 4/22/2015 10:06:09 | 32.48 | 30.98 | 1,027 | 0.32 | 0.31 | 56.2 |
| 4/22/2015 10:06:09 | 32.81 | 31.31 | 1,027 | 0.03 | 0.31 | 56.2 |
| 4/22/2015 10:06:10 | 33.14 | 31.64 | 1,021 | 0.35 | 0.32 | 55.8 |
| 4/22/2015 10:06:10 | 33.46 | 31.96 | 1,021 | 0.35 | 0.32 | 55.8 |
| 4/22/2015 10:06:10 | 33.79 | 32.29 | 1,027 | 0.31 | 0.32 | 56.2 |
| 4/22/2015 10:06:11 | 34.12 | 32.62 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:06:11 | 34.45 | 32.95 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:06:11 | 34.78 | 33.28 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 10:06:12 | 35.11 | 33.61 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:06:12 | 35.43 | 33.93 | 1,003 | 0.33 | 0.31 | 54.8 |
| 4/22/2015 10:06:13 | 35.76 | 34.26 | 1,003 | 0.33 | 0.31 | 54.8 |
| 4/22/2015 10:06:13 | 36.09 | 34.59 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/22/2015 10:06:13 | 36.42 | 34.92 | 1,010 | 0.33 | 0.31 | 55.2 |
| 4/22/2015 10:06:14 | 36.75 | 35.25 | 1,010 | 0.33 | 0.31 | 55.2 |
| 4/22/2015 10:06:14 | 37.07 | 35.57 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/22/2015 10:06:14 | 37.40 | 35.90 | 1,007 | 0.33 | 0.31 | 55.1 |
| 4/22/2015 10:06:15 | 37.73 | 36.23 | 1,007 | 0.33 | 0.31 | 55.1 |
| 4/22/2015 10:06:15 | 38.06 | 36.56 | 1,016 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 10:06:15 | 38.39 | 36.89 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 10:06:16 | 38.71 | 37.21 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 10:06:16 | 39.04 | 37.54 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/22/2015 10:06:16 | 39.37 | 37.87 | 1,012 | 0.31 | 0.32 | 55.4 |
| 4/22/2015 10:06:17 | 39.70 | 38.20 | 1,012 | 0.31 | 0.32 | 55.4 |
| 4/22/2015 10:06:17 | 40.03 | 38.53 | 1,022 | 0.34 | 0.32 | 55.9 |
| 4/22/2015 10:06:17 | 40.35 | 38.85 | 1,019 | 0.35 | 0.32 | 55.7 |
| 4/22/2015 10:06:18 | 40.68 | 39.18 | 1,019 | 0.35 | 0.32 | 55.7 |
| 4/22/2015 10:06:18 | 41.01 | 39.51 | 1,019 | 0.32 | 0.31 | 55.7 |
| 4/22/2015 10:06:19 | 41.34 | 39.84 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:06:19 | 41.67 | 40.17 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:06:19 | 41.99 | 40.49 | 1,016 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 10:06:20 | 42.32 | 40.82 | 1,016 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 10:06:20 | 42.65 | 41.15 | 1,016 | 0.32 | 0.32 | 55.5 |
| 4/22/2015 10:06:20 | 42.98 | 41.48 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 10:06:21 | 43.31 | 41.81 | 1,014 | 0.31 | 0.32 | 55.4 |
| 4/22/2015 10:06:21 | 43.64 | 42.14 | 1,014 | 0.31 | 0.32 | 55.4 |
| 4/22/2015 10:06:21 | 43.96 | 42.46 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 10:06:22 | 44.29 | 42.79 | 999 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 10:06:22 | 44.62 | 43.12 | 999 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 10:06:22 | 44.95 | 43.45 | 999 | 0.31 | 0.31 | 54.6 |
| 4/22/2015 10:06:23 | 45.28 | 43.78 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/22/2015 10:06:23 | 45.60 | 44.10 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/22/2015 10:06:23 | 45.93 | 44.43 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/22/2015 10:06:24 | 46.26 | 44.76 | 1,019 | 0.31 | 0.31 | 55.7 |
| 4/22/2015 10:06:24 | 46.59 | 45.09 | 1,019 | 0.31 | 0.31 | 55.7 |
| 4/22/2015 10:06:24 | 46.92 | 45.42 | 1,025 | 0.31 | 0.32 | 56.0 |
| 4/22/2015 10:06:25 | 47.24 | 45.74 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/22/2015 10:06:25 | 47.57 | 46.07 | 1,028 | 0.31 | 0.32 | 56.2 |
| 4/22/2015 10:06:36 | 47.90 | 46.40 | 80 | 3.54 | 0.34 | 4.4 |
| 4/22/2015 10:06:37 | 48.23 | 46.73 | 260 | 3.05 | 0.37 | 14.2 |
| 4/22/2015 10:06:38 | 48.56 | 47.06 | 398 | 5.63 | 0.40 | 21.8 |
| 4/22/2015 10:06:40 | 48.88 | 47.38 | 225 | 3.73 | 0.37 | 12.3 |
| 4/22/2015 10:06:41 | 49.21 | 47.71 | 278 | 2.48 | 0.33 | 15.2 |
| 4/22/2015 10:06:42 | 49.54 | 48.04 | 365 | 2.45 | 0.35 | 20.0 |
| 4/22/2015 10:06:42 | 49.87 | 48.37 | 494 | 2.39 | 0.35 | 27.0 |
| 4/22/2015 10:06:43 | 50.20 | 48.70 | 602 | 2.30 | 0.34 | 32.9 |
| 4/22/2015 10:06:43 | 50.53 | 49.03 | 642 | 2.42 | 0.36 | 35.1 |
| 4/22/2015 10:06:44 | 50.85 | 49.35 | 664 | 2.74 | 0.35 | 36.3 |
| 4/22/2015 10:06:44 | 51.18 | 49.68 | 675 | 3.07 | 0.36 | 36.9 |
| 4/22/2015 10:06:45 | 51.51 | 50.01 | 629 | 3.18 | 0.36 | 34.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:06:45 | 51.84 | 50.34 | 601 | 2.36 | 0.35 | 32.9 |
| 4/22/2015 | 10:06:46 | 52.17 | 50.67 | 595 | 2.56 | 0.35 | 32.6 |
| 4/22/2015 | 10:06:46 | 52.49 | 50.99 | 595 | 2.45 | 0.35 | 32.6 |
| 4/22/2015 | 10:06:47 | 52.82 | 51.32 | 595 | 2.39 | 0.35 | 32.6 |
| 4/22/2015 | 10:06:47 | 53.15 | 51.65 | 605 | 2.14 | 0.34 | 33.1 |
| 4/22/2015 | 10:06:48 | 53.48 | 51.98 | 644 | 2.15 | 0.34 | 35.2 |
| 4/22/2015 | 10:06:48 | 53.81 | 52.31 | 644 | 2.21 | 0.35 | 35.2 |
| 4/22/2015 | 10:06:50 | 54.13 | 52.63 | 602 | 2.80 | 0.38 | 32.9 |
| 4/22/2015 | 10:06:51 | 54.46 | 52.96 | 552 | 2.83 | 0.37 | 30.2 |
| 4/22/2015 | 10:06:51 | 54.79 | 53.29 | 521 | 2.65 | 0.36 | 28.5 |
| 4/22/2015 | 10:06:52 | 55.12 | 53.62 | 421 | 2.93 | 0.36 | 23.0 |
| 4/22/2015 | 10:06:53 | 55.45 | 53.95 | 466 | 3.16 | 0.37 | 25.5 |
| 4/22/2015 | 10:06:54 | 55.77 | 54.27 | 396 | 3.34 | 0.38 | 21.7 |
| 4/22/2015 | 10:06:56 | 56.10 | 54.60 | 227 | 3.77 | 0.39 | 12.4 |
| 4/22/2015 | 10:06:57 | 56.43 | 54.93 | 199 | 5.16 | 0.39 | 10.9 |
| 4/22/2015 | 10:06:59 | 56.76 | 55.26 | 225 | 3.30 | 0.38 | 12.3 |
| 4/22/2015 | 10:06:59 | 56.94 | 55.44 | 241 | 3.13 | 0.37 | 13.2 |

## F53 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:04:22

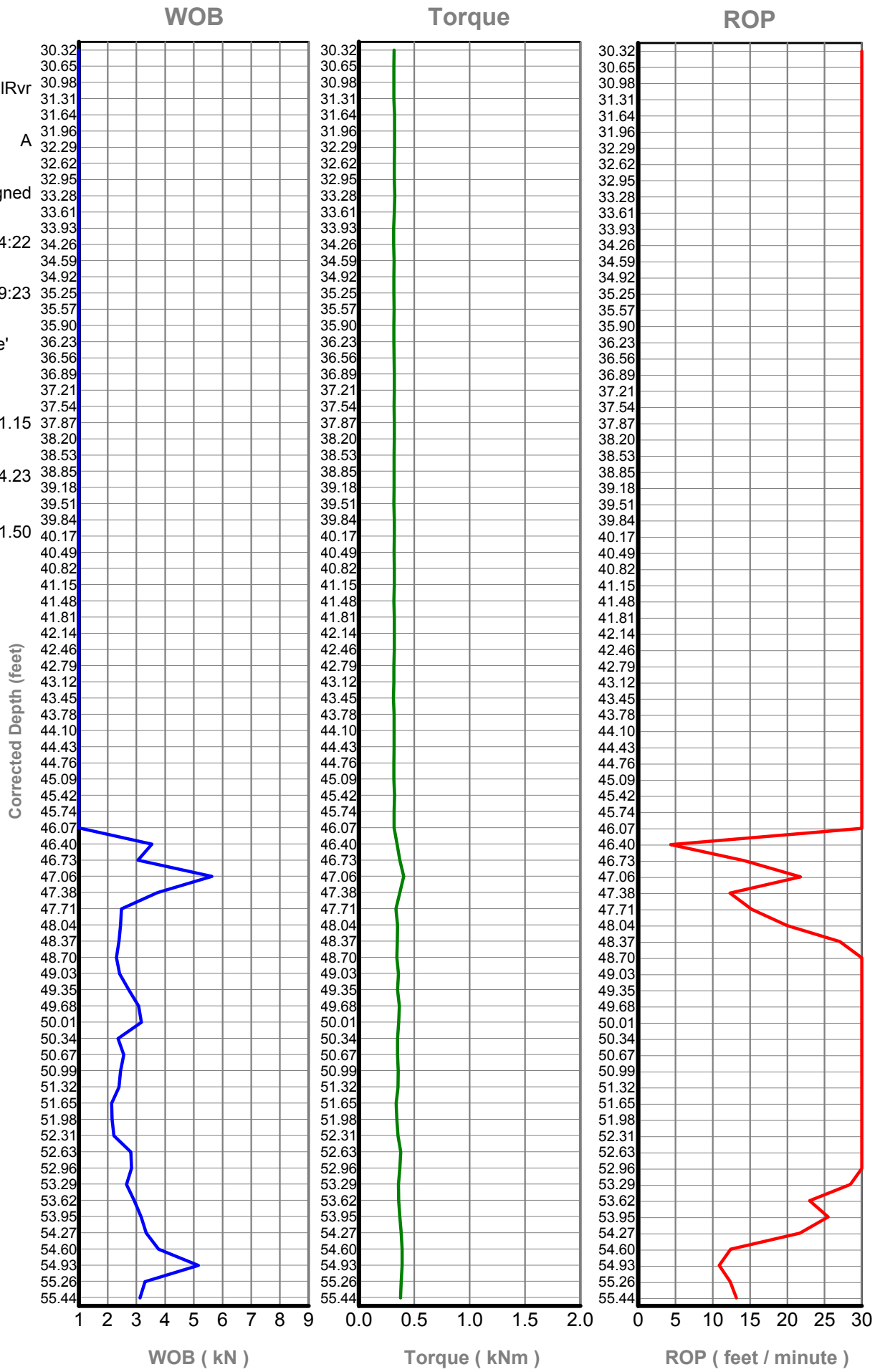
**End Date:**
4/22/2015 10:09:23

**Operator Note:**
'1.5 1.6 b Auto Complete'

**Northing:**
367,931.15

**Easting:**
252,344.23

**Tide (feet):**
1.50



## Hole: F54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:11:32 | 31.50 | 30.20 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:32 | 31.82 | 30.52 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/22/2015 10:11:33 | 32.15 | 30.85 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/22/2015 10:11:33 | 32.48 | 31.18 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:33 | 32.81 | 31.51 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:34 | 33.14 | 31.84 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:34 | 33.46 | 32.16 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/22/2015 10:11:34 | 33.79 | 32.49 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:11:35 | 34.12 | 32.82 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/22/2015 10:11:35 | 34.45 | 33.15 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 10:11:35 | 34.78 | 33.48 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:36 | 35.11 | 33.81 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:36 | 35.43 | 34.13 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 10:11:36 | 35.76 | 34.46 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/22/2015 10:11:37 | 36.09 | 34.79 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/22/2015 10:11:37 | 36.42 | 35.12 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:37 | 36.75 | 35.45 | 1,009 | 0.29 | 0.32 | 55.2 |
| 4/22/2015 10:11:38 | 37.07 | 35.77 | 1,009 | 0.30 | 0.24 | 55.2 |
| 4/22/2015 10:11:38 | 37.40 | 36.10 | 1,009 | 0.30 | 0.24 | 55.2 |
| 4/22/2015 10:11:38 | 37.73 | 36.43 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:39 | 38.06 | 36.76 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:39 | 38.39 | 37.09 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:39 | 38.71 | 37.41 | 1,009 | 0.30 | 0.32 | 55.2 |
| 4/22/2015 10:11:40 | 39.04 | 37.74 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:40 | 39.37 | 38.07 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:40 | 39.70 | 38.40 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 10:11:41 | 40.03 | 38.73 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 10:11:42 | 40.35 | 39.05 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/22/2015 10:11:42 | 40.68 | 39.38 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/22/2015 10:11:42 | 41.01 | 39.71 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 10:11:43 | 41.34 | 40.04 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/22/2015 10:11:43 | 41.67 | 40.37 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 10:11:43 | 41.99 | 40.69 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 10:11:44 | 42.32 | 41.02 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 10:11:44 | 42.65 | 41.35 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/22/2015 10:11:44 | 42.98 | 41.68 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 10:11:45 | 43.31 | 42.01 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/22/2015 10:11:45 | 43.64 | 42.34 | 1,017 | 0.18 | 0.31 | 55.6 |
| 4/22/2015 10:11:45 | 43.96 | 42.66 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:46 | 44.29 | 42.99 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:46 | 44.62 | 43.32 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:46 | 44.95 | 43.65 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:47 | 45.28 | 43.98 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:47 | 45.60 | 44.30 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/22/2015 10:11:47 | 45.93 | 44.63 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/22/2015 10:11:48 | 46.26 | 44.96 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/22/2015 10:11:48 | 46.59 | 45.29 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/22/2015 10:11:48 | 46.92 | 45.62 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:49 | 47.24 | 45.94 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/22/2015 10:11:49 | 47.57 | 46.27 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/22/2015 10:11:54 | 47.90 | 46.60 | 0 | 1.95 | 0.36 | 0.0 |
| 4/22/2015 10:11:59 | 48.23 | 46.93 | 63 | 3.60 | 0.37 | 3.4 |
| 4/22/2015 10:11:59 | 48.56 | 47.26 | 146 | 3.16 | 0.36 | 8.0 |
| 4/22/2015 10:12:00 | 48.88 | 47.58 | 243 | 3.46 | 0.35 | 13.3 |
| 4/22/2015 10:12:00 | 49.21 | 47.91 | 351 | 2.15 | 0.35 | 19.2 |
| 4/22/2015 10:12:01 | 49.54 | 48.24 | 486 | 2.21 | 0.36 | 26.6 |
| 4/22/2015 10:12:01 | 49.87 | 48.57 | 557 | 2.40 | 0.35 | 30.5 |
| 4/22/2015 10:12:17 | 50.20 | 48.90 | 86 | 2.69 | 0.36 | 4.7 |
| 4/22/2015 10:12:18 | 50.53 | 49.23 | 183 | 2.69 | 0.35 | 10.0 |
| 4/22/2015 10:12:18 | 50.85 | 49.55 | 306 | 2.60 | 0.36 | 16.7 |
| 4/22/2015 10:12:19 | 51.18 | 49.88 | 528 | 2.76 | 0.36 | 28.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:12:20 | 51.51 | 50.21 | 566 | 2.04 | 0.35 | 31.0 |
| 4/22/2015 | 10:12:20 | 51.84 | 50.54 | 604 | 1.88 | 0.33 | 33.0 |
| 4/22/2015 | 10:12:21 | 52.17 | 50.87 | 636 | 2.21 | 0.36 | 34.8 |
| 4/22/2015 | 10:12:22 | 52.49 | 51.19 | 438 | 3.39 | 0.40 | 24.0 |
| 4/22/2015 | 10:12:37 | 52.82 | 51.52 | 66 | 3.22 | 0.39 | 3.6 |
| 4/22/2015 | 10:12:42 | 53.15 | 51.85 | 69 | 3.47 | 0.39 | 3.8 |
| 4/22/2015 | 10:12:47 | 53.48 | 52.18 | 71 | 3.35 | 0.39 | 3.9 |
| 4/22/2015 | 10:12:52 | 53.81 | 52.51 | 69 | 3.47 | 0.39 | 3.8 |
| 4/22/2015 | 10:12:58 | 54.13 | 52.83 | 52 | 3.16 | 0.40 | 2.8 |
| 4/22/2015 | 10:13:03 | 54.46 | 53.16 | 65 | 3.27 | 0.40 | 3.6 |
| 4/22/2015 | 10:13:04 | 54.52 | 53.22 | 65 | 3.12 | 0.39 | 3.5 |

## F54 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:10:12

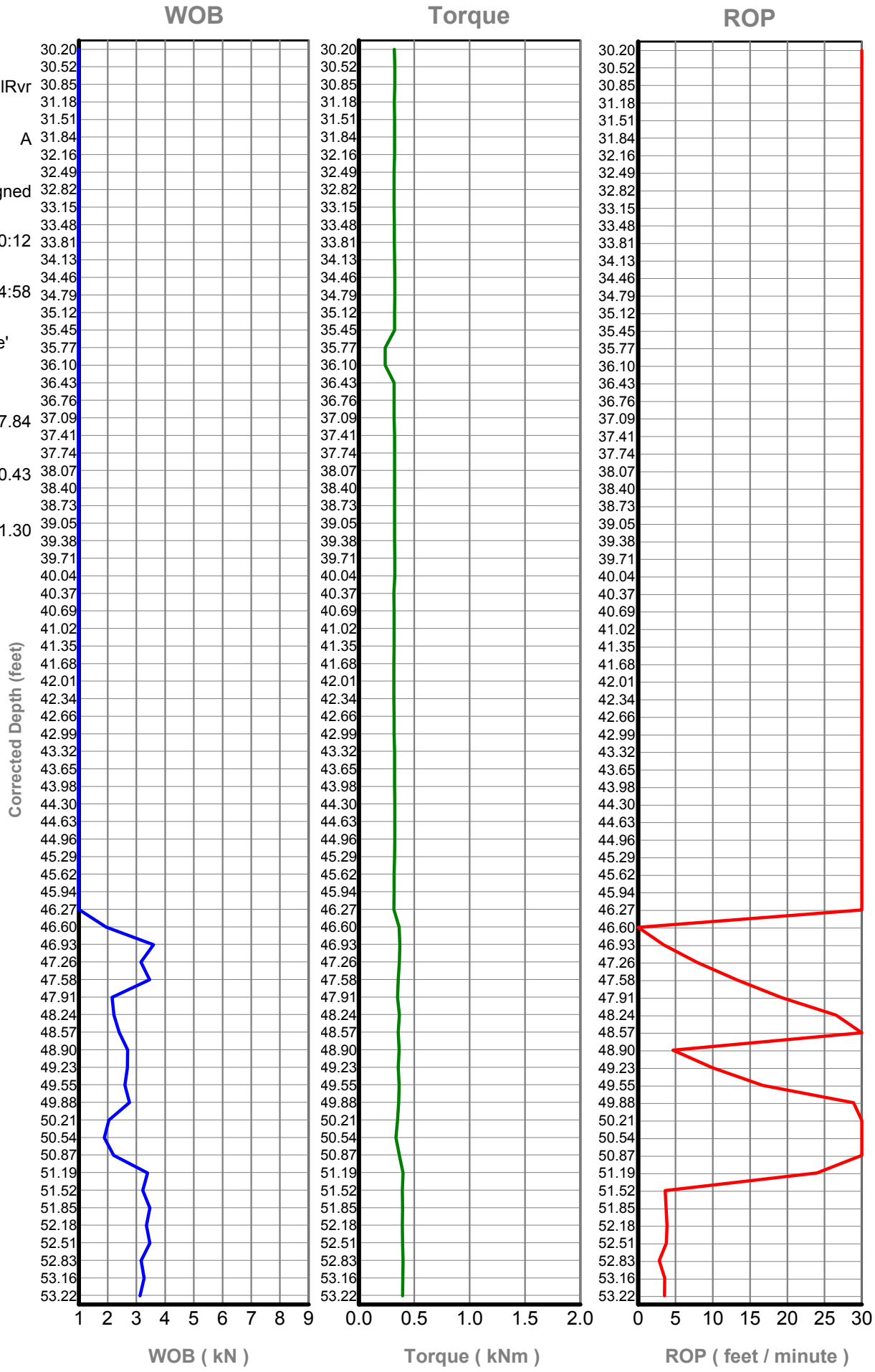
**End Date:**
4/22/2015 10:14:58

**Operator Note:**
'1.3 1.5 b Auto Complete'

**Northing:**
367,967.84

**Easting:**
252,390.43

**Tide (feet):**
1.30



## Hole: F55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:09:39 | 31.82 | 30.32 | 382 | 1.33 | 0.28 | 20.9 |
| 4/22/2015 10:09:40 | 32.15 | 30.65 | 378 | 1.30 | 0.29 | 20.7 |
| 4/22/2015 10:09:41 | 32.48 | 30.98 | 386 | 1.34 | 0.29 | 21.1 |
| 4/22/2015 10:09:42 | 32.81 | 31.31 | 389 | 1.34 | 0.28 | 21.3 |
| 4/22/2015 10:09:43 | 33.14 | 31.64 | 390 | 1.30 | 0.29 | 21.3 |
| 4/22/2015 10:09:44 | 33.46 | 31.96 | 385 | 1.36 | 0.28 | 21.0 |
| 4/22/2015 10:09:45 | 33.79 | 32.29 | 378 | 1.33 | 0.29 | 20.7 |
| 4/22/2015 10:09:45 | 34.12 | 32.62 | 378 | 1.38 | 0.28 | 20.7 |
| 4/22/2015 10:09:46 | 34.45 | 32.95 | 379 | 1.38 | 0.28 | 20.7 |
| 4/22/2015 10:09:47 | 34.78 | 33.28 | 381 | 1.31 | 0.28 | 20.8 |
| 4/22/2015 10:09:48 | 35.11 | 33.61 | 388 | 1.30 | 0.28 | 21.2 |
| 4/22/2015 10:09:49 | 35.43 | 33.93 | 377 | 1.34 | 0.28 | 20.6 |
| 4/22/2015 10:09:50 | 35.76 | 34.26 | 387 | 1.34 | 0.28 | 21.2 |
| 4/22/2015 10:09:51 | 36.09 | 34.59 | 381 | 1.37 | 0.22 | 20.8 |
| 4/22/2015 10:09:52 | 36.42 | 34.92 | 391 | 1.32 | 0.28 | 21.4 |
| 4/22/2015 10:09:53 | 36.75 | 35.25 | 379 | 1.30 | 0.28 | 20.7 |
| 4/22/2015 10:09:54 | 37.07 | 35.57 | 387 | 1.30 | 0.28 | 21.2 |
| 4/22/2015 10:09:55 | 37.40 | 35.90 | 384 | 1.32 | 0.28 | 21.0 |
| 4/22/2015 10:09:56 | 37.73 | 36.23 | 382 | 1.30 | 0.28 | 20.9 |
| 4/22/2015 10:09:57 | 38.06 | 36.56 | 378 | 1.38 | 0.28 | 20.7 |
| 4/22/2015 10:09:58 | 38.39 | 36.89 | 380 | 1.34 | 0.28 | 20.8 |
| 4/22/2015 10:09:59 | 38.71 | 37.21 | 387 | 1.32 | 0.29 | 21.2 |
| 4/22/2015 10:09:59 | 39.04 | 37.54 | 389 | 1.33 | 0.28 | 21.3 |
| 4/22/2015 10:10:00 | 39.37 | 37.87 | 384 | 1.34 | 0.28 | 21.0 |
| 4/22/2015 10:10:02 | 39.70 | 38.20 | 384 | 1.11 | 0.28 | 21.0 |
| 4/22/2015 10:10:03 | 40.03 | 38.53 | 387 | 1.32 | 0.28 | 21.1 |
| 4/22/2015 10:10:03 | 40.35 | 38.85 | 382 | 1.28 | 0.28 | 20.9 |
| 4/22/2015 10:10:04 | 40.68 | 39.18 | 382 | 1.33 | 0.28 | 20.9 |
| 4/22/2015 10:10:05 | 41.01 | 39.51 | 380 | 1.32 | 0.29 | 20.8 |
| 4/22/2015 10:10:06 | 41.34 | 39.84 | 380 | 1.33 | 0.28 | 20.8 |
| 4/22/2015 10:10:07 | 41.67 | 40.17 | 378 | 1.32 | 0.28 | 20.7 |
| 4/22/2015 10:10:08 | 41.99 | 40.49 | 378 | 1.30 | 0.29 | 20.7 |
| 4/22/2015 10:10:09 | 42.32 | 40.82 | 377 | 1.32 | 0.28 | 20.6 |
| 4/22/2015 10:10:10 | 42.65 | 41.15 | 377 | 1.30 | 0.28 | 20.6 |
| 4/22/2015 10:10:11 | 42.98 | 41.48 | 382 | 1.32 | 0.28 | 20.9 |
| 4/22/2015 10:10:12 | 43.31 | 41.81 | 382 | 1.32 | 0.28 | 20.9 |
| 4/22/2015 10:10:13 | 43.64 | 42.14 | 375 | 1.36 | 0.28 | 20.5 |
| 4/22/2015 10:10:14 | 43.96 | 42.46 | 379 | 1.34 | 0.28 | 20.7 |
| 4/22/2015 10:10:15 | 44.29 | 42.79 | 375 | 1.32 | 0.28 | 20.5 |
| 4/22/2015 10:10:16 | 44.62 | 43.12 | 377 | 1.38 | 0.28 | 20.6 |
| 4/22/2015 10:10:17 | 44.95 | 43.45 | 372 | 1.36 | 0.28 | 20.4 |
| 4/22/2015 10:10:18 | 45.28 | 43.78 | 379 | 1.33 | 0.28 | 20.7 |
| 4/22/2015 10:10:18 | 45.60 | 44.10 | 376 | 1.32 | 0.28 | 20.6 |
| 4/22/2015 10:10:31 | 45.93 | 44.43 | 0 | 1.43 | 1.01 | 0.0 |
| 4/22/2015 10:10:33 | 46.26 | 44.76 | 136 | 1.40 | 0.95 | 7.4 |
| 4/22/2015 10:10:34 | 46.59 | 45.09 | 252 | 1.49 | 1.16 | 13.8 |
| 4/22/2015 10:10:36 | 46.92 | 45.42 | 223 | 1.57 | 1.06 | 12.2 |
| 4/22/2015 10:10:49 | 47.24 | 45.74 | 43 | 1.61 | 1.20 | 2.4 |
| 4/22/2015 10:10:53 | 47.57 | 46.07 | 116 | 1.57 | 1.01 | 6.4 |
| 4/22/2015 10:10:55 | 47.90 | 46.40 | 150 | 1.47 | 1.15 | 8.2 |
| 4/22/2015 10:10:56 | 48.23 | 46.73 | 158 | 1.43 | 0.89 | 8.7 |
| 4/22/2015 10:11:09 | 48.56 | 47.06 | 93 | 1.57 | 1.07 | 5.1 |
| 4/22/2015 10:11:11 | 48.88 | 47.38 | 162 | 1.45 | 0.83 | 8.9 |
| 4/22/2015 10:11:13 | 49.21 | 47.71 | 211 | 1.47 | 0.84 | 11.5 |
| 4/22/2015 10:11:15 | 49.54 | 48.04 | 217 | 1.51 | 0.83 | 11.9 |
| 4/22/2015 10:11:17 | 49.87 | 48.37 | 211 | 1.47 | 0.82 | 11.5 |
| 4/22/2015 10:11:18 | 50.20 | 48.70 | 206 | 1.47 | 0.83 | 11.2 |
| 4/22/2015 10:11:20 | 50.53 | 49.03 | 203 | 1.46 | 0.83 | 11.1 |
| 4/22/2015 10:11:22 | 50.85 | 49.35 | 211 | 1.47 | 0.83 | 11.5 |
| 4/22/2015 10:11:23 | 51.18 | 49.68 | 211 | 1.51 | 0.83 | 11.5 |
| 4/22/2015 10:11:25 | 51.51 | 50.01 | 208 | 1.45 | 0.82 | 11.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:11:27 | 51.84 | 50.34 | 214 | 1.51 | 0.84 | 11.7 |
| 4/22/2015 | 10:11:28 | 52.17 | 50.67 | 214 | 1.40 | 0.84 | 11.7 |
| 4/22/2015 | 10:11:30 | 52.49 | 50.99 | 255 | 1.40 | 0.83 | 13.9 |
| 4/22/2015 | 10:11:31 | 52.82 | 51.32 | 279 | 1.43 | 0.83 | 15.3 |
| 4/22/2015 | 10:11:32 | 53.15 | 51.65 | 276 | 1.47 | 0.82 | 15.1 |
| 4/22/2015 | 10:11:33 | 53.48 | 51.98 | 278 | 1.48 | 0.82 | 15.2 |
| 4/22/2015 | 10:11:35 | 53.81 | 52.31 | 263 | 1.47 | 0.86 | 14.4 |
| 4/22/2015 | 10:11:37 | 54.13 | 52.63 | 241 | 1.42 | 0.88 | 13.2 |
| 4/22/2015 | 10:11:38 | 54.46 | 52.96 | 249 | 1.45 | 0.85 | 13.6 |
| 4/22/2015 | 10:11:39 | 54.79 | 53.29 | 246 | 1.49 | 0.88 | 13.5 |
| 4/22/2015 | 10:11:41 | 55.12 | 53.62 | 244 | 1.45 | 0.82 | 13.3 |
| 4/22/2015 | 10:11:42 | 55.45 | 53.95 | 254 | 1.47 | 0.80 | 13.9 |
| 4/22/2015 | 10:11:43 | 55.77 | 54.27 | 262 | 1.46 | 0.82 | 14.3 |
| 4/22/2015 | 10:11:45 | 56.10 | 54.60 | 263 | 1.47 | 0.84 | 14.4 |
| 4/22/2015 | 10:11:46 | 56.43 | 54.93 | 256 | 1.47 | 0.89 | 14.0 |
| 4/22/2015 | 10:11:47 | 56.67 | 55.17 | 257 | 1.52 | 0.85 | 14.0 |

## F55 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:06:32

**End Date:**
4/22/2015 10:13:39

**Operator Note:**
'1.5 1.5 c Auto Complete'

**Northing:**
368,014.89

**Easting:**
252,449.17

**Tide (feet):**
1.50



## Hole: F56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:05:59 | 36.09 | 30.19 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:05:59 | 36.42 | 30.52 | 853 | 0.20 | 0.32 | 46.7 |
| 4/23/2015 4:06:00 | 36.75 | 30.85 | 853 | 0.20 | 0.33 | 46.7 |
| 4/23/2015 4:06:01 | 37.07 | 31.17 | 855 | 0.20 | 0.33 | 46.7 |
| 4/23/2015 4:06:01 | 37.40 | 31.50 | 855 | 0.20 | 0.33 | 46.7 |
| 4/23/2015 4:06:01 | 37.73 | 31.83 | 844 | 0.20 | 0.32 | 46.1 |
| 4/23/2015 4:06:02 | 38.06 | 32.16 | 876 | 0.20 | 0.32 | 47.9 |
| 4/23/2015 4:06:02 | 38.39 | 32.49 | 861 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 4:06:03 | 38.71 | 32.81 | 861 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 4:06:03 | 39.04 | 33.14 | 896 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 4:06:03 | 39.37 | 33.47 | 889 | 0.20 | 0.32 | 48.6 |
| 4/23/2015 4:06:04 | 39.70 | 33.80 | 897 | 0.20 | 0.33 | 49.1 |
| 4/23/2015 4:06:04 | 40.03 | 34.13 | 894 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 4:06:05 | 40.35 | 34.45 | 894 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 4:06:05 | 40.68 | 34.78 | 899 | 0.20 | 0.33 | 49.1 |
| 4/23/2015 4:06:05 | 41.01 | 35.11 | 893 | 0.20 | 0.33 | 48.8 |
| 4/23/2015 4:06:06 | 41.34 | 35.44 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:06:06 | 41.67 | 35.77 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:06:06 | 41.99 | 36.09 | 887 | 0.20 | 0.32 | 48.5 |
| 4/23/2015 4:06:07 | 42.32 | 36.42 | 879 | 0.20 | 0.32 | 48.1 |
| 4/23/2015 4:06:07 | 42.65 | 36.75 | 894 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 4:06:08 | 42.98 | 37.08 | 885 | 0.20 | 0.32 | 48.4 |
| 4/23/2015 4:06:08 | 43.31 | 37.41 | 885 | 0.20 | 0.32 | 48.4 |
| 4/23/2015 4:06:08 | 43.64 | 37.74 | 897 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 4:06:09 | 43.96 | 38.06 | 894 | 0.20 | 0.32 | 48.9 |
| 4/23/2015 4:06:09 | 44.29 | 38.39 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 4:06:10 | 44.62 | 38.72 | 905 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 4:06:10 | 44.95 | 39.05 | 902 | 0.20 | 0.33 | 49.3 |
| 4/23/2015 4:06:11 | 45.28 | 39.38 | 902 | 0.19 | 0.33 | 49.3 |
| 4/23/2015 4:06:11 | 45.60 | 39.70 | 886 | 0.20 | 0.32 | 48.4 |
| 4/23/2015 4:06:12 | 45.93 | 40.03 | 886 | 0.20 | 0.32 | 48.4 |
| 4/23/2015 4:06:12 | 46.26 | 40.36 | 903 | 0.20 | 0.32 | 49.4 |
| 4/23/2015 4:06:12 | 46.59 | 40.69 | 906 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 4:06:13 | 46.92 | 41.02 | 900 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:13 | 47.24 | 41.34 | 900 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:13 | 47.57 | 41.67 | 900 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:14 | 47.90 | 42.00 | 916 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 4:06:14 | 48.23 | 42.33 | 899 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:15 | 48.56 | 42.66 | 899 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:15 | 48.88 | 42.98 | 896 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 4:06:15 | 49.21 | 43.31 | 896 | 0.12 | 0.33 | 49.0 |
| 4/23/2015 4:06:16 | 49.54 | 43.64 | 899 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:06:16 | 49.87 | 43.97 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 4:06:17 | 50.20 | 44.30 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 4:06:17 | 50.53 | 44.63 | 893 | 0.20 | 0.33 | 48.8 |
| 4/23/2015 4:06:17 | 50.85 | 44.95 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 4:06:18 | 51.18 | 45.28 | 890 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 4:06:18 | 51.51 | 45.61 | 890 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 4:06:18 | 51.84 | 45.94 | 893 | 0.20 | 0.33 | 48.8 |
| 4/23/2015 4:06:19 | 52.17 | 46.27 | 890 | 0.19 | 0.33 | 48.7 |
| 4/23/2015 4:06:19 | 52.49 | 46.59 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:06:20 | 52.82 | 46.92 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:06:20 | 53.15 | 47.25 | 887 | 0.20 | 0.32 | 48.5 |
| 4/23/2015 4:06:20 | 53.48 | 47.58 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 4:06:21 | 53.81 | 47.91 | 879 | 0.20 | 0.32 | 48.1 |
| 4/23/2015 4:06:22 | 54.13 | 48.23 | 866 | 0.20 | 0.32 | 47.3 |
| 4/23/2015 4:06:22 | 54.46 | 48.56 | 866 | 0.20 | 0.32 | 47.3 |
| 4/23/2015 4:06:22 | 54.79 | 48.89 | 883 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 4:06:23 | 55.12 | 49.22 | 880 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:06:23 | 55.45 | 49.55 | 874 | 0.22 | 0.33 | 47.8 |
| 4/23/2015 4:06:24 | 55.77 | 49.87 | 868 | 0.21 | 0.32 | 47.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:06:24 | 56.10 | 50.20 | 868 | 0.21 | 0.32 | 47.5 |
| 4/23/2015 | 4:06:24 | 56.43 | 50.53 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 | 4:06:25 | 56.76 | 50.86 | 864 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 | 4:06:25 | 57.09 | 51.19 | 864 | 0.20 | 0.32 | 47.3 |
| 4/23/2015 | 4:06:26 | 57.41 | 51.51 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 | 4:06:26 | 57.74 | 51.84 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 | 4:06:26 | 58.07 | 52.17 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 | 4:06:27 | 58.40 | 52.50 | 862 | 0.19 | 0.34 | 47.1 |
| 4/23/2015 | 4:06:27 | 58.73 | 52.83 | 841 | 0.18 | 0.38 | 46.0 |
| 4/23/2015 | 4:07:04 | 59.06 | 53.16 | 3 | 2.57 | 0.36 | 0.1 |
| 4/23/2015 | 4:07:05 | 59.38 | 53.48 | 118 | 2.91 | 0.36 | 6.4 |
| 4/23/2015 | 4:07:18 | 59.71 | 53.81 | 3 | 3.39 | 0.36 | 0.2 |
| 4/23/2015 | 4:07:19 | 60.04 | 54.14 | 3 | 2.50 | 0.35 | 0.2 |
| 4/23/2015 | 4:07:19 | 60.37 | 54.47 | 127 | 2.67 | 0.36 | 6.9 |
| 4/23/2015 | 4:07:20 | 60.70 | 54.80 | 232 | 2.63 | 0.36 | 12.7 |
| 4/23/2015 | 4:07:21 | 61.02 | 55.12 | 340 | 2.68 | 0.36 | 18.6 |
| 4/23/2015 | 4:07:21 | 61.35 | 55.45 | 434 | 2.37 | 0.36 | 23.8 |

## F56 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:01:12

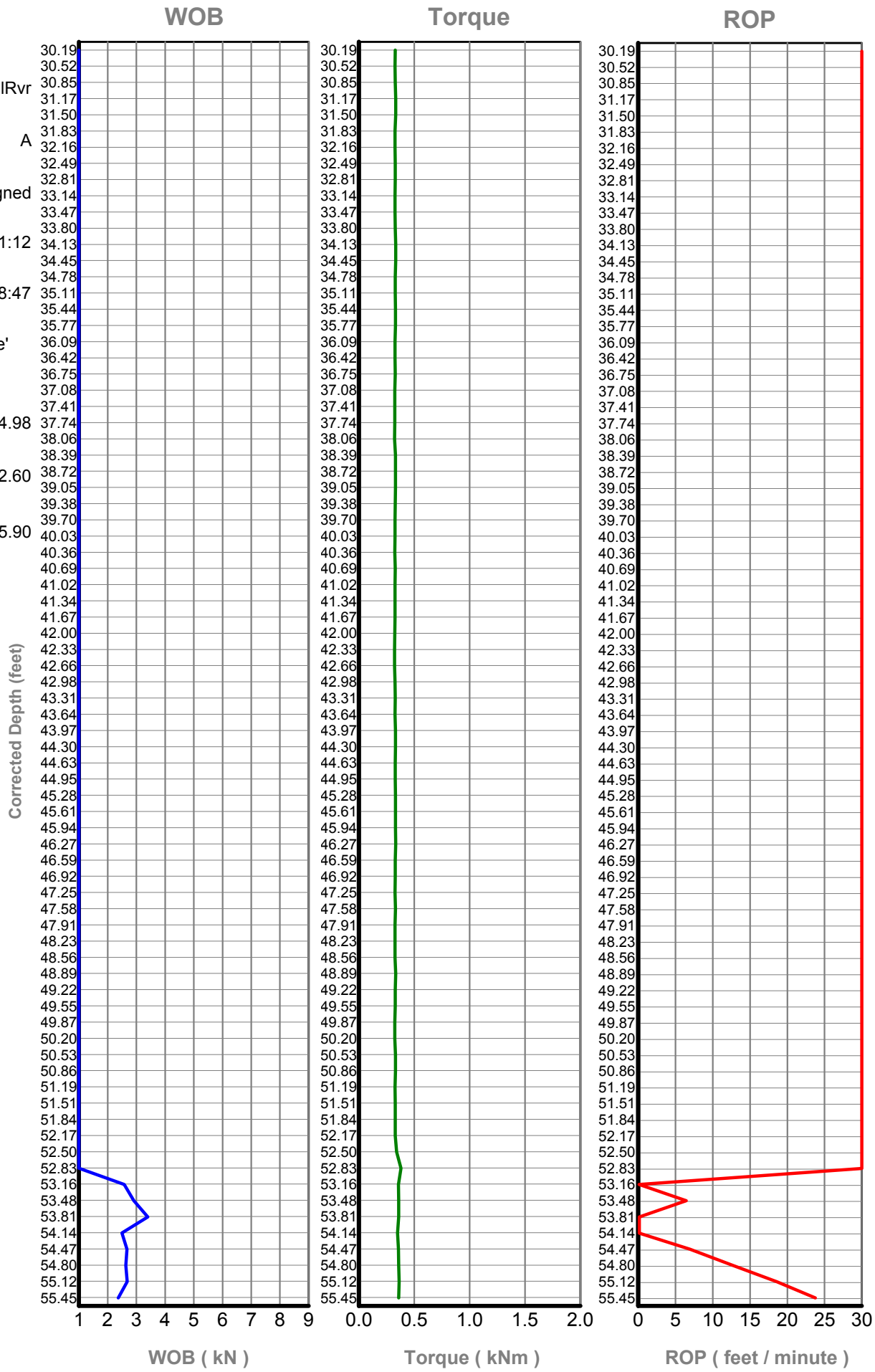
**End Date:**
4/23/2015 4:08:47

**Operator Note:**
'5.9 5.9 b Auto Complete'

**Northing:**
367,444.98

**Easting:**
251,862.60

**Tide (feet):**
5.90



## Hole: F57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:56:32 | 36.09 | 30.19 | 781 | 0.20 | 0.33 | 42.7 |
| 4/23/2015 3:56:32 | 36.42 | 30.52 | 816 | 0.20 | 0.33 | 44.6 |
| 4/23/2015 3:56:33 | 36.75 | 30.85 | 824 | 0.20 | 0.33 | 45.1 |
| 4/23/2015 3:56:33 | 37.07 | 31.17 | 835 | 0.22 | 0.33 | 45.7 |
| 4/23/2015 3:56:34 | 37.40 | 31.50 | 830 | 0.20 | 0.33 | 45.4 |
| 4/23/2015 3:56:34 | 37.73 | 31.83 | 830 | 0.20 | 0.33 | 45.4 |
| 4/23/2015 3:56:34 | 38.06 | 32.16 | 843 | 0.20 | 0.33 | 46.1 |
| 4/23/2015 3:56:35 | 38.39 | 32.49 | 844 | 0.20 | 0.33 | 46.2 |
| 4/23/2015 3:56:35 | 38.71 | 32.81 | 834 | 0.20 | 0.33 | 45.6 |
| 4/23/2015 3:56:36 | 39.04 | 33.14 | 835 | 0.20 | 0.33 | 45.7 |
| 4/23/2015 3:56:36 | 39.37 | 33.47 | 835 | 0.20 | 0.33 | 45.7 |
| 4/23/2015 3:56:36 | 39.70 | 33.80 | 850 | 0.20 | 0.33 | 46.5 |
| 4/23/2015 3:56:37 | 40.03 | 34.13 | 850 | 0.20 | 0.33 | 46.5 |
| 4/23/2015 3:56:37 | 40.35 | 34.45 | 840 | 0.22 | 0.33 | 45.9 |
| 4/23/2015 3:56:38 | 40.68 | 34.78 | 840 | 0.20 | 0.32 | 45.9 |
| 4/23/2015 3:56:39 | 41.01 | 35.11 | 840 | 0.20 | 0.32 | 45.9 |
| 4/23/2015 3:56:39 | 41.34 | 35.44 | 851 | 0.20 | 0.33 | 46.5 |
| 4/23/2015 3:56:39 | 41.67 | 35.77 | 851 | 0.20 | 0.33 | 46.5 |
| 4/23/2015 3:56:40 | 41.99 | 36.09 | 868 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 3:56:40 | 42.32 | 36.42 | 863 | 0.19 | 0.33 | 47.2 |
| 4/23/2015 3:56:41 | 42.65 | 36.75 | 863 | 0.19 | 0.33 | 47.2 |
| 4/23/2015 3:56:41 | 42.98 | 37.08 | 871 | 0.20 | 0.32 | 47.6 |
| 4/23/2015 3:56:41 | 43.31 | 37.41 | 881 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 3:56:42 | 43.64 | 37.74 | 888 | 0.20 | 0.32 | 48.6 |
| 4/23/2015 3:56:42 | 43.96 | 38.06 | 888 | 0.20 | 0.32 | 48.6 |
| 4/23/2015 3:56:42 | 44.29 | 38.39 | 869 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 3:56:43 | 44.62 | 38.72 | 875 | 0.21 | 0.33 | 47.8 |
| 4/23/2015 3:56:43 | 44.95 | 39.05 | 875 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:56:44 | 45.28 | 39.38 | 865 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:56:44 | 45.60 | 39.70 | 865 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:56:44 | 45.93 | 40.03 | 865 | 0.20 | 0.32 | 47.3 |
| 4/23/2015 3:56:45 | 46.26 | 40.36 | 874 | 0.21 | 0.33 | 47.8 |
| 4/23/2015 3:56:45 | 46.59 | 40.69 | 868 | 0.20 | 0.32 | 47.5 |
| 4/23/2015 3:56:46 | 46.92 | 41.02 | 884 | 0.20 | 0.32 | 48.3 |
| 4/23/2015 3:56:46 | 47.24 | 41.34 | 884 | 0.20 | 0.32 | 48.3 |
| 4/23/2015 3:56:46 | 47.57 | 41.67 | 883 | 0.21 | 0.33 | 48.3 |
| 4/23/2015 3:56:47 | 47.90 | 42.00 | 890 | 0.21 | 0.33 | 48.7 |
| 4/23/2015 3:56:47 | 48.23 | 42.33 | 864 | 0.20 | 0.32 | 47.2 |
| 4/23/2015 3:56:48 | 48.56 | 42.66 | 864 | 0.20 | 0.32 | 47.2 |
| 4/23/2015 3:56:48 | 48.88 | 42.98 | 864 | 0.20 | 0.33 | 47.2 |
| 4/23/2015 3:56:48 | 49.21 | 43.31 | 874 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:56:49 | 49.54 | 43.64 | 873 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:56:50 | 49.87 | 43.97 | 874 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:56:50 | 50.20 | 44.30 | 874 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 3:56:50 | 50.53 | 44.63 | 873 | 0.20 | 0.32 | 47.8 |
| 4/23/2015 3:56:51 | 50.85 | 44.95 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 3:56:51 | 51.18 | 45.28 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 3:56:52 | 51.51 | 45.61 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 3:56:52 | 51.84 | 45.94 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 3:56:52 | 52.17 | 46.27 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 3:56:53 | 52.49 | 46.59 | 865 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:56:53 | 52.82 | 46.92 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 3:56:54 | 53.15 | 47.25 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 3:56:54 | 53.48 | 47.58 | 867 | 0.20 | 0.32 | 47.4 |
| 4/23/2015 3:56:54 | 53.81 | 47.91 | 864 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:56:55 | 54.13 | 48.23 | 861 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 3:56:55 | 54.46 | 48.56 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 3:56:56 | 54.79 | 48.89 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 3:56:56 | 55.12 | 49.22 | 864 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 3:56:56 | 55.45 | 49.55 | 859 | 0.20 | 0.33 | 46.9 |
| 4/23/2015 3:56:57 | 55.77 | 49.87 | 856 | 0.20 | 0.33 | 46.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 3:56:57 | 56.10 | 50.20 | 867 | 0.20 | 0.32 | 47.4 |
| 4/23/2015 | 3:56:58 | 56.43 | 50.53 | 867 | 0.20 | 0.32 | 47.4 |
| 4/23/2015 | 3:56:58 | 56.76 | 50.86 | 864 | 0.20 | 0.32 | 47.3 |
| 4/23/2015 | 3:56:58 | 57.09 | 51.19 | 861 | 0.20 | 0.33 | 47.1 |
| 4/23/2015 | 3:56:59 | 57.41 | 51.51 | 864 | 0.20 | 0.34 | 47.3 |
| 4/23/2015 | 3:57:00 | 57.74 | 51.84 | 836 | 0.18 | 0.38 | 45.7 |
| 4/23/2015 | 3:57:01 | 58.07 | 52.17 | 404 | 0.15 | 0.36 | 22.1 |
| 4/23/2015 | 3:57:02 | 58.40 | 52.50 | 356 | 0.26 | 0.36 | 19.5 |
| 4/23/2015 | 3:57:03 | 58.73 | 52.83 | 354 | 0.19 | 0.37 | 19.4 |
| 4/23/2015 | 3:57:04 | 59.06 | 53.16 | 453 | 0.18 | 0.37 | 24.8 |
| 4/23/2015 | 3:57:36 | 59.38 | 53.48 | 28 | 4.54 | 0.39 | 1.5 |
| 4/23/2015 | 3:57:45 | 59.71 | 53.81 | 59 | 3.57 | 0.39 | 3.2 |
| 4/23/2015 | 3:57:50 | 60.04 | 54.14 | 69 | 3.55 | 0.40 | 3.8 |
| 4/23/2015 | 3:57:56 | 60.37 | 54.47 | 61 | 3.50 | 0.40 | 3.3 |
| 4/23/2015 | 3:58:03 | 60.70 | 54.80 | 57 | 3.21 | 0.40 | 3.1 |
| 4/23/2015 | 3:58:05 | 60.85 | 54.95 | 57 | 4.19 | 0.40 | 3.1 |

## F57 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:52:19

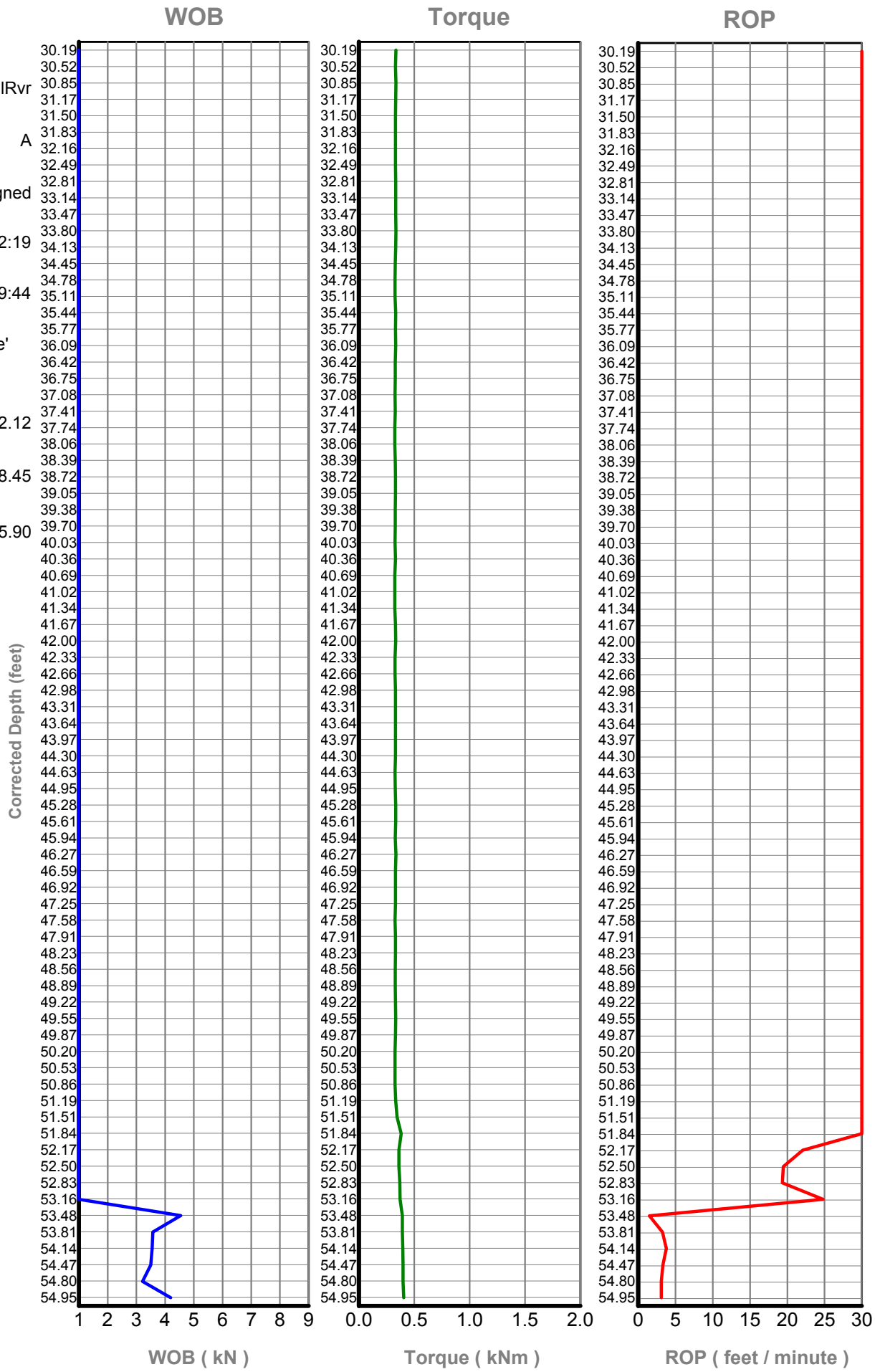
**End Date:**
4/23/2015 3:59:44

**Operator Note:**
'5.9 5.8 b Auto Complete'

**Northing:**
367,482.12

**Easting:**
251,908.45

**Tide (feet):**
5.90



## Hole: F58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 3:56:25 | 36.09 | 30.19 | 362 | 1.69 | 0.17 | 19.8 |
| 4/23/2015 3:56:26 | 36.42 | 30.52 | 363 | 1.70 | 0.17 | 19.8 |
| 4/23/2015 3:56:27 | 36.75 | 30.85 | 364 | 1.69 | 0.17 | 19.9 |
| 4/23/2015 3:56:28 | 37.07 | 31.17 | 356 | 1.70 | 0.17 | 19.5 |
| 4/23/2015 3:56:29 | 37.40 | 31.50 | 354 | 1.70 | 0.17 | 19.4 |
| 4/23/2015 3:56:30 | 37.73 | 31.83 | 357 | 1.68 | 0.17 | 19.5 |
| 4/23/2015 3:56:31 | 38.06 | 32.16 | 360 | 1.70 | 0.17 | 19.7 |
| 4/23/2015 3:56:32 | 38.39 | 32.49 | 357 | 1.70 | 0.17 | 19.5 |
| 4/23/2015 3:56:33 | 38.71 | 32.81 | 361 | 1.70 | 0.17 | 19.8 |
| 4/23/2015 3:56:34 | 39.04 | 33.14 | 361 | 1.70 | 0.17 | 19.7 |
| 4/23/2015 3:56:46 | 39.37 | 33.47 | 74 | 1.71 | 0.17 | 4.1 |
| 4/23/2015 3:56:47 | 39.70 | 33.80 | 168 | 1.70 | 0.17 | 9.2 |
| 4/23/2015 3:56:48 | 40.03 | 34.13 | 360 | 1.71 | 0.17 | 19.7 |
| 4/23/2015 3:56:48 | 40.35 | 34.45 | 457 | 1.72 | 0.17 | 25.0 |
| 4/23/2015 3:56:49 | 40.68 | 34.78 | 477 | 1.72 | 0.17 | 26.1 |
| 4/23/2015 3:56:50 | 41.01 | 35.11 | 472 | 1.70 | 0.17 | 25.8 |
| 4/23/2015 3:56:51 | 41.34 | 35.44 | 473 | 1.72 | 0.17 | 25.9 |
| 4/23/2015 3:56:51 | 41.67 | 35.77 | 470 | 1.70 | 0.17 | 25.7 |
| 4/23/2015 3:56:52 | 41.99 | 36.09 | 474 | 1.71 | 0.17 | 25.9 |
| 4/23/2015 3:56:53 | 42.32 | 36.42 | 482 | 1.70 | 0.17 | 26.3 |
| 4/23/2015 3:56:53 | 42.65 | 36.75 | 477 | 1.73 | 0.17 | 26.1 |
| 4/23/2015 3:56:55 | 42.98 | 37.08 | 483 | 1.74 | 0.17 | 26.4 |
| 4/23/2015 3:56:55 | 43.31 | 37.41 | 474 | 1.72 | 0.17 | 25.9 |
| 4/23/2015 3:56:56 | 43.64 | 37.74 | 469 | 1.70 | 0.17 | 25.6 |
| 4/23/2015 3:56:57 | 43.96 | 38.06 | 477 | 1.72 | 0.17 | 26.1 |
| 4/23/2015 3:56:58 | 44.29 | 38.39 | 474 | 1.70 | 0.17 | 25.9 |
| 4/23/2015 3:56:58 | 44.62 | 38.72 | 472 | 1.70 | 0.17 | 25.8 |
| 4/23/2015 3:56:59 | 44.95 | 39.05 | 474 | 1.70 | 0.17 | 25.9 |
| 4/23/2015 3:57:00 | 45.28 | 39.38 | 474 | 1.71 | 0.17 | 25.9 |
| 4/23/2015 3:57:00 | 45.60 | 39.70 | 474 | 1.72 | 0.17 | 25.9 |
| 4/23/2015 3:57:01 | 45.93 | 40.03 | 474 | 1.70 | 0.17 | 25.9 |
| 4/23/2015 3:57:02 | 46.26 | 40.36 | 471 | 1.71 | 0.17 | 25.8 |
| 4/23/2015 3:57:03 | 46.59 | 40.69 | 474 | 1.70 | 0.17 | 25.9 |
| 4/23/2015 3:57:03 | 46.92 | 41.02 | 466 | 1.71 | 0.17 | 25.5 |
| 4/23/2015 3:57:05 | 47.24 | 41.34 | 470 | 1.68 | 0.17 | 25.7 |
| 4/23/2015 3:57:05 | 47.57 | 41.67 | 472 | 1.70 | 0.17 | 25.8 |
| 4/23/2015 3:57:06 | 47.90 | 42.00 | 470 | 1.70 | 0.17 | 25.7 |
| 4/23/2015 3:57:07 | 48.23 | 42.33 | 477 | 1.73 | 0.17 | 26.1 |
| 4/23/2015 3:57:07 | 48.56 | 42.66 | 461 | 1.74 | 0.17 | 25.2 |
| 4/23/2015 3:57:08 | 48.88 | 42.98 | 469 | 1.70 | 0.17 | 25.6 |
| 4/23/2015 3:57:09 | 49.21 | 43.31 | 466 | 1.70 | 0.17 | 25.5 |
| 4/23/2015 3:57:10 | 49.54 | 43.64 | 472 | 1.70 | 0.17 | 25.8 |
| 4/23/2015 3:57:10 | 49.87 | 43.97 | 482 | 1.70 | 0.17 | 26.3 |
| 4/23/2015 3:57:11 | 50.20 | 44.30 | 477 | 1.70 | 0.17 | 26.1 |
| 4/23/2015 3:57:12 | 50.53 | 44.63 | 474 | 1.70 | 0.17 | 25.9 |
| 4/23/2015 3:57:13 | 50.85 | 44.95 | 474 | 1.74 | 0.17 | 25.9 |
| 4/23/2015 3:57:13 | 51.18 | 45.28 | 474 | 1.72 | 0.17 | 25.9 |
| 4/23/2015 3:57:14 | 51.51 | 45.61 | 474 | 1.71 | 0.17 | 25.9 |
| 4/23/2015 3:57:15 | 51.84 | 45.94 | 474 | 1.69 | 0.17 | 25.9 |
| 4/23/2015 3:57:16 | 52.17 | 46.27 | 474 | 1.71 | 0.17 | 25.9 |
| 4/23/2015 3:57:17 | 52.49 | 46.59 | 466 | 1.70 | 0.17 | 25.5 |
| 4/23/2015 3:57:17 | 52.82 | 46.92 | 471 | 1.70 | 0.17 | 25.8 |
| 4/23/2015 3:57:18 | 53.15 | 47.25 | 464 | 1.70 | 0.17 | 25.4 |
| 4/23/2015 3:57:19 | 53.48 | 47.58 | 465 | 1.72 | 0.17 | 25.4 |
| 4/23/2015 3:57:20 | 53.81 | 47.91 | 471 | 1.68 | 0.17 | 25.7 |
| 4/23/2015 3:57:20 | 54.13 | 48.23 | 471 | 1.70 | 0.17 | 25.7 |
| 4/23/2015 3:57:21 | 54.46 | 48.56 | 471 | 1.72 | 0.17 | 25.8 |
| 4/23/2015 3:57:22 | 54.79 | 48.89 | 474 | 1.71 | 0.17 | 25.9 |
| 4/23/2015 3:57:23 | 55.12 | 49.22 | 468 | 1.70 | 0.17 | 25.6 |
| 4/23/2015 3:58:04 | 55.45 | 49.55 | 17 | 1.70 | 1.29 | 0.9 |
| 4/23/2015 3:58:16 | 55.77 | 49.87 | 51 | 1.72 | 1.15 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 3:58:18 | 56.10 | 50.20 | 168 | 1.69 | 1.43 | 9.2 |
| 4/23/2015 | 3:58:22 | 56.43 | 50.53 | 107 | 1.68 | 1.19 | 5.9 |
| 4/23/2015 | 3:58:38 | 56.76 | 50.86 | 83 | 1.71 | 1.14 | 4.5 |
| 4/23/2015 | 3:58:39 | 57.09 | 51.19 | 199 | 1.70 | 1.04 | 10.9 |
| 4/23/2015 | 3:58:52 | 57.41 | 51.51 | 27 | 1.71 | 1.03 | 1.5 |
| 4/23/2015 | 3:58:53 | 57.74 | 51.84 | 166 | 1.70 | 1.02 | 9.1 |
| 4/23/2015 | 3:58:54 | 58.07 | 52.17 | 306 | 1.70 | 1.03 | 16.7 |
| 4/23/2015 | 3:58:55 | 58.40 | 52.50 | 353 | 1.70 | 1.14 | 19.3 |
| 4/23/2015 | 3:58:58 | 58.73 | 52.83 | 150 | 1.70 | 1.10 | 8.2 |
| 4/23/2015 | 3:59:19 | 59.06 | 53.16 | 17 | 1.72 | 1.13 | 0.9 |
| 4/23/2015 | 3:59:30 | 59.38 | 53.48 | 40 | 1.70 | 1.11 | 2.2 |
| 4/23/2015 | 3:59:37 | 59.71 | 53.81 | 46 | 1.70 | 1.12 | 2.5 |
| 4/23/2015 | 3:59:41 | 59.89 | 53.99 | 48 | 1.70 | 1.22 | 2.6 |

## F58 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 3:53:24

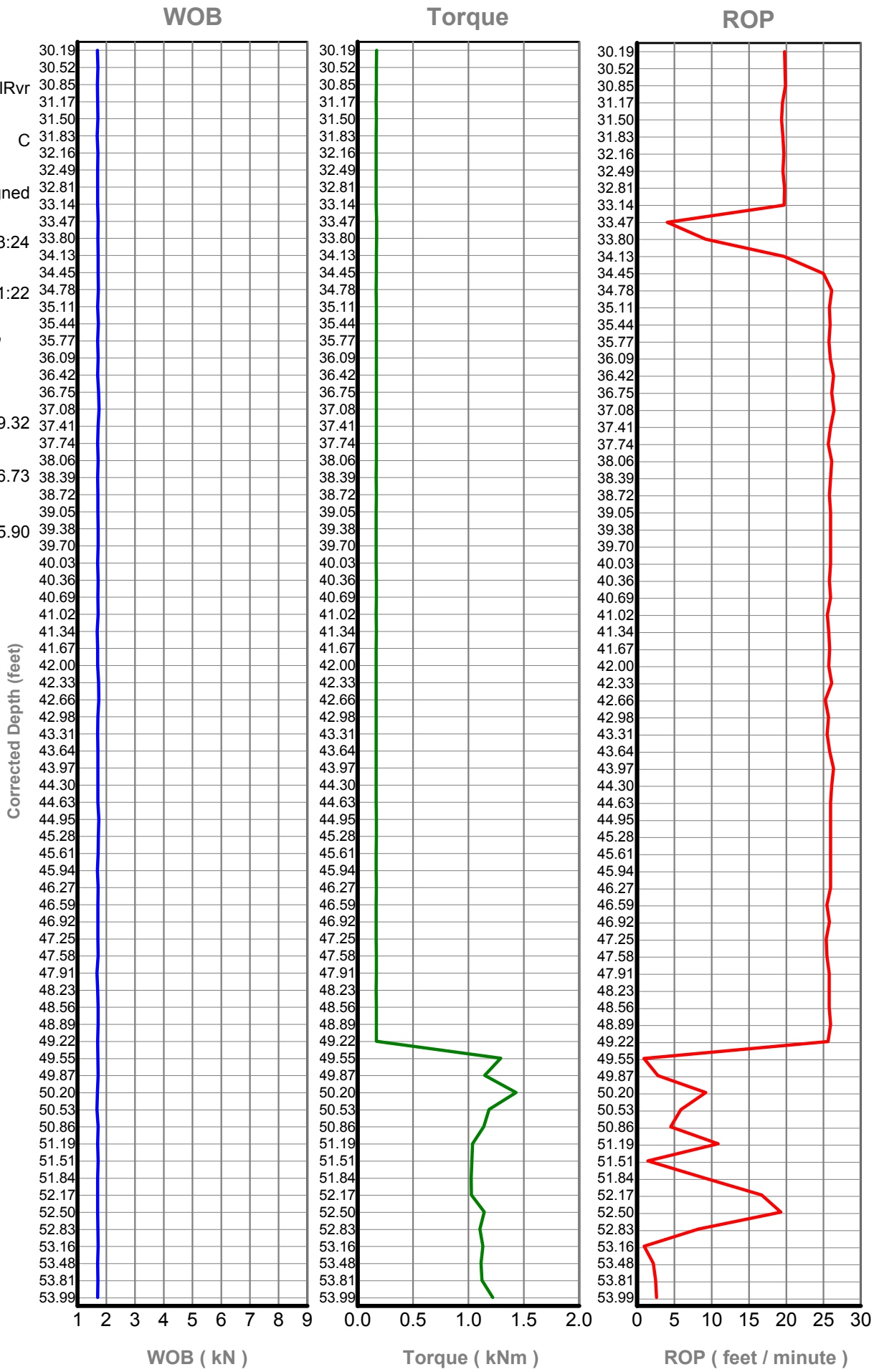
**End Date:**
4/23/2015 4:01:22

**Operator Note:**
'5.9 5.8c Auto Complete'

**Northing:**
367,529.32

**Easting:**
251,966.73

**Tide (feet):**
5.90



## Hole: F59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:50:21 | 31.50 | 30.30 | 932 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:21 | 31.82 | 30.62 | 932 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:21 | 32.15 | 30.95 | 932 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:22 | 32.48 | 31.28 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:50:22 | 32.81 | 31.61 | 928 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:50:23 | 33.14 | 31.94 | 928 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:50:23 | 33.46 | 32.26 | 943 | 1.66 | 1.29 | 51.6 |
| 4/22/2015 22:50:24 | 33.79 | 32.59 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:50:24 | 34.12 | 32.92 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:50:25 | 34.45 | 33.25 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:50:25 | 34.78 | 33.58 | 929 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:50:25 | 35.11 | 33.91 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 22:50:26 | 35.43 | 34.23 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:26 | 35.76 | 34.56 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:26 | 36.09 | 34.89 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:50:27 | 36.42 | 35.22 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:50:27 | 36.75 | 35.55 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:50:27 | 37.07 | 35.87 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:50:28 | 37.40 | 36.20 | 928 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:50:28 | 37.73 | 36.53 | 926 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 22:50:29 | 38.06 | 36.86 | 926 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 22:50:29 | 38.39 | 37.19 | 937 | 1.66 | 1.29 | 51.3 |
| 4/22/2015 22:50:29 | 38.71 | 37.51 | 932 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:30 | 39.04 | 37.84 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:50:30 | 39.37 | 38.17 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:50:30 | 39.70 | 38.50 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:31 | 40.03 | 38.83 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:50:31 | 40.35 | 39.15 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:50:32 | 40.68 | 39.48 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:50:32 | 41.01 | 39.81 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:32 | 41.34 | 40.14 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:50:33 | 41.67 | 40.47 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:33 | 41.99 | 40.79 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:33 | 42.32 | 41.12 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:50:34 | 42.65 | 41.45 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 22:50:35 | 42.98 | 41.78 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:35 | 43.31 | 42.11 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:35 | 43.64 | 42.44 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:36 | 43.96 | 42.76 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 22:50:36 | 44.29 | 43.09 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 22:50:36 | 44.62 | 43.42 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 22:50:37 | 44.95 | 43.75 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:50:37 | 45.28 | 44.08 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:38 | 45.60 | 44.40 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:38 | 45.93 | 44.73 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:38 | 46.26 | 45.06 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:50:39 | 46.59 | 45.39 | 934 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 22:50:39 | 46.92 | 45.72 | 934 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 22:50:39 | 47.24 | 46.04 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:40 | 47.57 | 46.37 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:50:40 | 47.90 | 46.70 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:41 | 48.23 | 47.03 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:41 | 48.56 | 47.36 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:50:41 | 48.88 | 47.68 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:42 | 49.21 | 48.01 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:42 | 49.54 | 48.34 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:50:42 | 49.87 | 48.67 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:50:43 | 50.20 | 49.00 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:51:09 | 50.53 | 49.33 | 106 | 1.66 | 1.29 | 5.8 |
| 4/22/2015 22:51:13 | 50.85 | 49.65 | 111 | 1.66 | 1.29 | 6.1 |
| 4/22/2015 22:51:15 | 51.18 | 49.98 | 145 | 1.66 | 1.29 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:51:24 | 51.51 | 50.31 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 22:51:27 | 51.84 | 50.64 | 112 | 1.66 | 1.29 | 6.1 |
| 4/22/2015 | 22:51:28 | 52.17 | 50.97 | 172 | 1.66 | 1.29 | 9.4 |
| 4/22/2015 | 22:51:30 | 52.49 | 51.29 | 157 | 1.66 | 1.29 | 8.6 |
| 4/22/2015 | 22:51:32 | 52.82 | 51.62 | 180 | 1.66 | 1.29 | 9.9 |
| 4/22/2015 | 22:51:36 | 53.15 | 51.95 | 44 | 1.66 | 1.29 | 2.4 |
| 4/22/2015 | 22:51:38 | 53.48 | 52.28 | 190 | 1.66 | 1.29 | 10.4 |
| 4/22/2015 | 22:51:39 | 53.81 | 52.61 | 269 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 | 22:51:42 | 54.13 | 52.93 | 86 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 | 22:51:47 | 54.46 | 53.26 | 96 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 | 22:51:50 | 54.79 | 53.59 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 22:51:53 | 55.12 | 53.92 | 115 | 1.66 | 1.29 | 6.3 |
| 4/22/2015 | 22:51:58 | 55.45 | 54.25 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 22:54:51 | 55.77 | 54.57 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 22:54:56 | 56.10 | 54.90 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 22:55:01 | 56.27 | 55.07 | 44 | 1.66 | 1.29 | 2.4 |

## F59 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 22:48:31

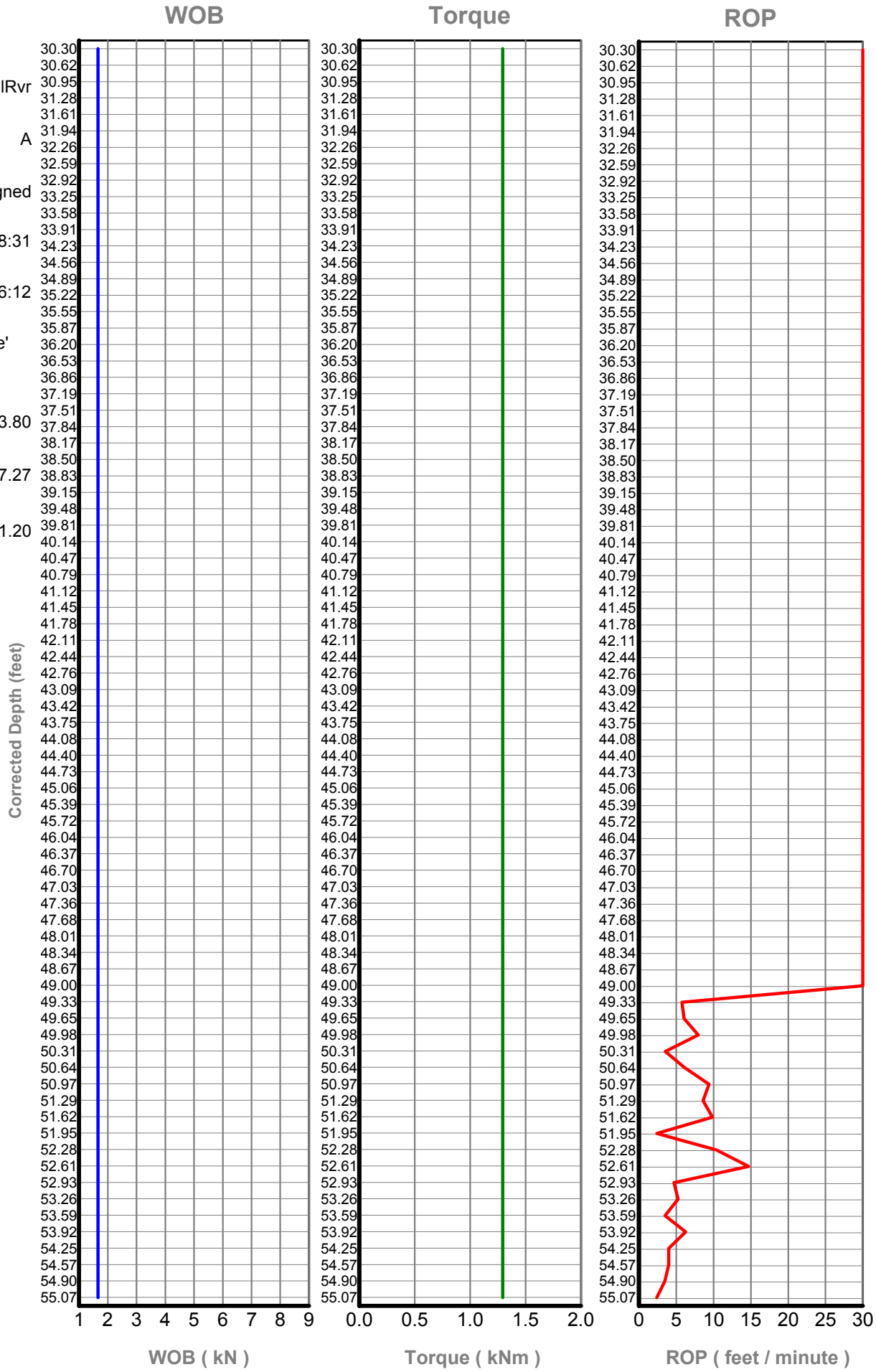
**End Date:**
4/22/2015 22:56:12

**Operator Note:**
'1.2 1.2 b Auto Complete'

**Northing:**
367,583.80

**Easting:**
252,027.27

**Tide (feet):**
1.20



## Hole: F6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:35:40 | 31.82 | 30.22 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:40 | 32.15 | 30.55 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:40 | 32.48 | 30.88 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:41 | 32.81 | 31.21 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:41 | 33.14 | 31.54 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:42 | 33.46 | 31.86 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:42 | 33.79 | 32.19 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:42 | 34.12 | 32.52 | 907 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:43 | 34.45 | 32.85 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:43 | 34.78 | 33.18 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:43 | 35.11 | 33.51 | 896 | 0.22 | 0.33 | 49.0 |
| 4/23/2015 0:35:44 | 35.43 | 33.83 | 902 | 0.23 | 0.33 | 49.3 |
| 4/23/2015 0:35:44 | 35.76 | 34.16 | 899 | 0.20 | 0.33 | 49.2 |
| 4/23/2015 0:35:45 | 36.09 | 34.49 | 899 | 0.20 | 0.33 | 49.2 |
| 4/23/2015 0:35:45 | 36.42 | 34.82 | 899 | 0.23 | 0.33 | 49.2 |
| 4/23/2015 0:35:45 | 36.75 | 35.15 | 896 | 0.26 | 0.33 | 49.0 |
| 4/23/2015 0:35:46 | 37.07 | 35.47 | 899 | 0.22 | 0.33 | 49.2 |
| 4/23/2015 0:35:46 | 37.40 | 35.80 | 899 | 0.22 | 0.33 | 49.2 |
| 4/23/2015 0:35:47 | 37.73 | 36.13 | 899 | 0.22 | 0.33 | 49.2 |
| 4/23/2015 0:35:47 | 38.06 | 36.46 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:47 | 38.39 | 36.79 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:48 | 38.71 | 37.11 | 913 | 0.22 | 0.33 | 49.9 |
| 4/23/2015 0:35:48 | 39.04 | 37.44 | 913 | 0.22 | 0.33 | 49.9 |
| 4/23/2015 0:35:49 | 39.37 | 37.77 | 922 | 0.22 | 0.33 | 50.4 |
| 4/23/2015 0:35:49 | 39.70 | 38.10 | 913 | 0.22 | 0.35 | 50.0 |
| 4/23/2015 0:35:50 | 40.03 | 38.43 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:50 | 40.35 | 38.75 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:50 | 40.68 | 39.08 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:51 | 41.01 | 39.41 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:51 | 41.34 | 39.74 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:52 | 41.67 | 40.07 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:52 | 41.99 | 40.39 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:52 | 42.32 | 40.72 | 911 | 0.22 | 0.33 | 49.8 |
| 4/23/2015 0:35:53 | 42.65 | 41.05 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:53 | 42.98 | 41.38 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:53 | 43.31 | 41.71 | 908 | 0.17 | 0.33 | 49.6 |
| 4/23/2015 0:35:54 | 43.64 | 42.04 | 902 | 0.22 | 0.33 | 49.3 |
| 4/23/2015 0:35:54 | 43.96 | 42.36 | 913 | 0.22 | 0.33 | 49.9 |
| 4/23/2015 0:35:55 | 44.29 | 42.69 | 913 | 0.22 | 0.33 | 49.9 |
| 4/23/2015 0:35:55 | 44.62 | 43.02 | 908 | 0.22 | 0.33 | 49.6 |
| 4/23/2015 0:35:55 | 44.95 | 43.35 | 910 | 0.22 | 0.33 | 49.8 |
| 4/23/2015 0:35:56 | 45.28 | 43.68 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:56 | 45.60 | 44.00 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:56 | 45.93 | 44.33 | 905 | 0.22 | 0.33 | 49.5 |
| 4/23/2015 0:35:57 | 46.26 | 44.66 | 902 | 0.22 | 0.33 | 49.3 |
| 4/23/2015 0:35:57 | 46.59 | 44.99 | 896 | 0.20 | 0.37 | 49.0 |
| 4/23/2015 0:36:44 | 46.92 | 45.32 | 0 | 4.43 | 0.38 | 0.0 |
| 4/23/2015 0:36:48 | 47.24 | 45.64 | 86 | 6.03 | 0.41 | 4.7 |
| 4/23/2015 0:36:59 | 47.57 | 45.97 | 20 | 3.73 | 0.38 | 1.1 |
| 4/23/2015 0:37:00 | 47.90 | 46.30 | 164 | 3.01 | 0.36 | 9.0 |
| 4/23/2015 0:37:01 | 48.23 | 46.63 | 264 | 2.83 | 0.35 | 14.4 |
| 4/23/2015 0:37:09 | 48.56 | 46.96 | 32 | 2.44 | 0.35 | 1.8 |
| 4/23/2015 0:37:10 | 48.88 | 47.28 | 158 | 2.58 | 0.36 | 8.6 |
| 4/23/2015 0:37:10 | 49.21 | 47.61 | 279 | 2.91 | 0.36 | 15.2 |
| 4/23/2015 0:37:11 | 49.54 | 47.94 | 473 | 3.57 | 0.39 | 25.9 |
| 4/23/2015 0:37:13 | 49.87 | 48.27 | 460 | 3.29 | 0.37 | 25.1 |
| 4/23/2015 0:37:13 | 50.20 | 48.60 | 436 | 3.25 | 0.38 | 23.8 |
| 4/23/2015 0:37:14 | 50.53 | 48.93 | 405 | 2.80 | 0.37 | 22.1 |
| 4/23/2015 0:37:15 | 50.85 | 49.25 | 440 | 2.70 | 0.36 | 24.1 |
| 4/23/2015 0:37:16 | 51.18 | 49.58 | 443 | 4.18 | 0.37 | 24.2 |
| 4/23/2015 0:37:17 | 51.51 | 49.91 | 445 | 3.90 | 0.38 | 24.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:37:26 | 51.84 | 50.24 | 6 | 5.67 | 0.40 | 0.3 |
| 4/23/2015 | 0:38:36 | 52.17 | 50.57 | 84 | 4.86 | 0.39 | 4.6 |
| 4/23/2015 | 0:38:41 | 52.49 | 50.89 | 37 | 3.83 | 0.39 | 2.0 |
| 4/23/2015 | 0:38:42 | 52.82 | 51.22 | 190 | 3.97 | 0.38 | 10.4 |
| 4/23/2015 | 0:38:48 | 53.15 | 51.55 | 49 | 4.13 | 0.37 | 2.7 |
| 4/23/2015 | 0:38:49 | 53.48 | 51.88 | 199 | 3.21 | 0.37 | 10.9 |
| 4/23/2015 | 0:38:50 | 53.81 | 52.21 | 353 | 3.54 | 0.38 | 19.3 |
| 4/23/2015 | 0:38:51 | 54.13 | 52.53 | 373 | 3.26 | 0.39 | 20.4 |
| 4/23/2015 | 0:38:54 | 54.46 | 52.86 | 162 | 4.00 | 0.39 | 8.8 |
| 4/23/2015 | 0:39:09 | 54.79 | 53.19 | 109 | 3.61 | 0.40 | 6.0 |
| 4/23/2015 | 0:39:12 | 55.12 | 53.52 | 105 | 3.49 | 0.39 | 5.7 |
| 4/23/2015 | 0:39:16 | 55.45 | 53.85 | 98 | 3.47 | 0.40 | 5.4 |
| 4/23/2015 | 0:39:20 | 55.77 | 54.17 | 93 | 3.74 | 0.40 | 5.1 |
| 4/23/2015 | 0:39:24 | 56.10 | 54.50 | 92 | 3.62 | 0.40 | 5.0 |
| 4/23/2015 | 0:39:26 | 56.32 | 54.72 | 87 | 4.07 | 0.40 | 4.7 |

## F6 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:32:55

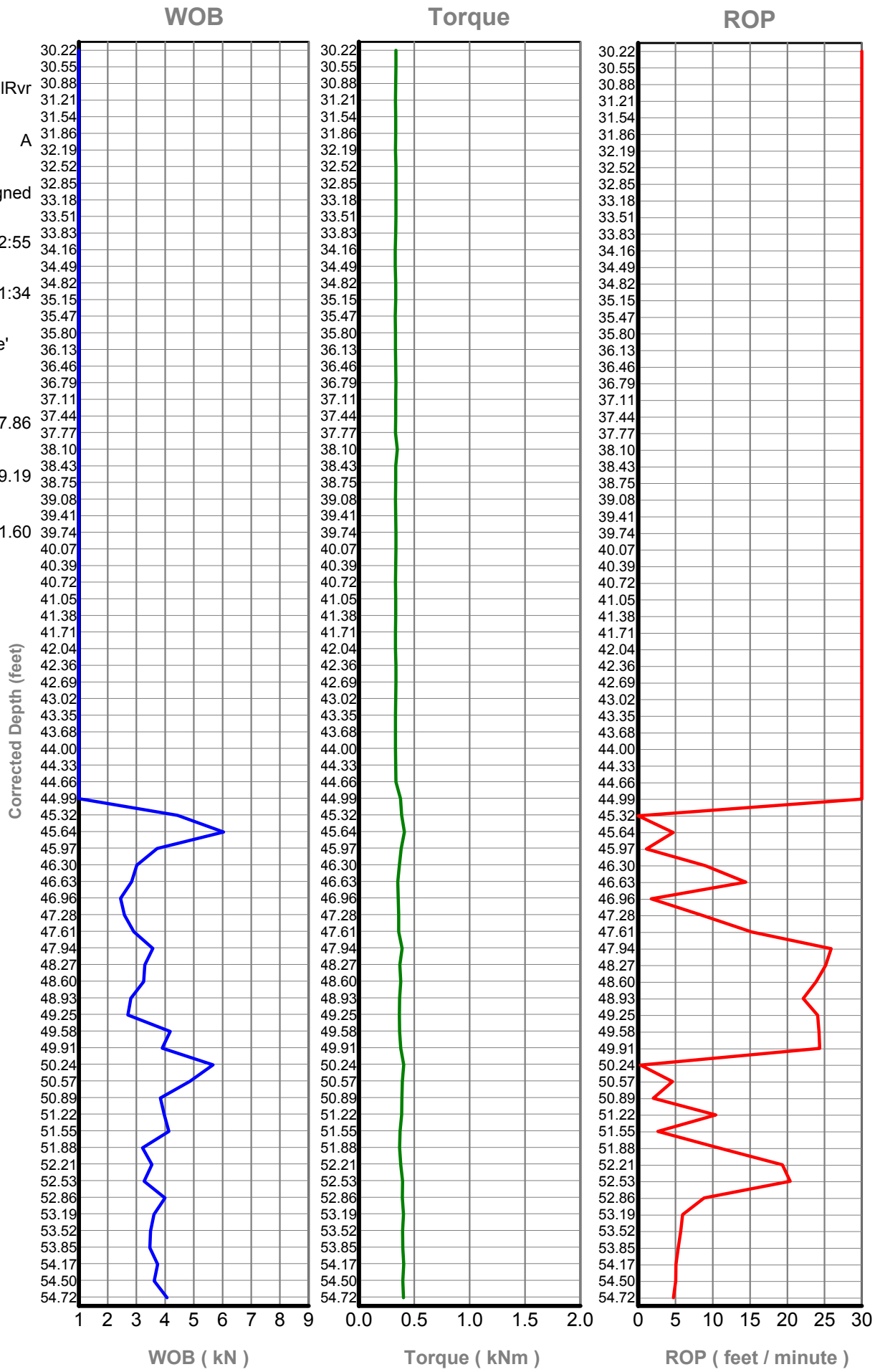
**End Date:**
4/23/2015 0:41:34

**Operator Note:**
'1.6 1.3 b Auto Complete'

**Northing:**
367,857.86

**Easting:**
251,889.19

**Tide (feet):**
1.60



## Hole: F60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:42:07 | 31.50 | 30.20 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:42:08 | 31.82 | 30.52 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:42:08 | 32.15 | 30.85 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:42:09 | 32.48 | 31.18 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:42:09 | 32.81 | 31.51 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:09 | 33.14 | 31.84 | 908 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:10 | 33.46 | 32.16 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 22:42:10 | 33.79 | 32.49 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 22:42:10 | 34.12 | 32.82 | 919 | 1.66 | 1.29 | 50.2 |
| 4/22/2015 22:42:11 | 34.45 | 33.15 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:12 | 34.78 | 33.48 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:42:12 | 35.11 | 33.81 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:13 | 35.43 | 34.13 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:13 | 35.76 | 34.46 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:13 | 36.09 | 34.79 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:42:14 | 36.42 | 35.12 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:42:14 | 36.75 | 35.45 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:42:14 | 37.07 | 35.77 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:42:15 | 37.40 | 36.10 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 22:42:15 | 37.73 | 36.43 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 22:42:16 | 38.06 | 36.76 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 22:42:16 | 38.39 | 37.09 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:16 | 38.71 | 37.41 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:17 | 39.04 | 37.74 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:17 | 39.37 | 38.07 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:17 | 39.70 | 38.40 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:18 | 40.03 | 38.73 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:42:18 | 40.35 | 39.05 | 908 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:19 | 40.68 | 39.38 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:19 | 41.01 | 39.71 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:19 | 41.34 | 40.04 | 908 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:20 | 41.67 | 40.37 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:42:20 | 41.99 | 40.69 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:21 | 42.32 | 41.02 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:21 | 42.65 | 41.35 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:21 | 42.98 | 41.68 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:22 | 43.31 | 42.01 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:22 | 43.64 | 42.34 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:22 | 43.96 | 42.66 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:23 | 44.29 | 42.99 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:24 | 44.62 | 43.32 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 22:42:24 | 44.95 | 43.65 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 22:42:24 | 45.28 | 43.98 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:42:25 | 45.60 | 44.30 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:25 | 45.93 | 44.63 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:26 | 46.26 | 44.96 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:26 | 46.59 | 45.29 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:26 | 46.92 | 45.62 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:42:27 | 47.24 | 45.94 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:27 | 47.57 | 46.27 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:42:27 | 47.90 | 46.60 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:42:28 | 48.23 | 46.93 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 22:42:28 | 48.56 | 47.26 | 919 | 1.66 | 1.29 | 50.2 |
| 4/22/2015 22:42:29 | 48.88 | 47.58 | 919 | 1.66 | 1.29 | 50.2 |
| 4/22/2015 22:42:29 | 49.21 | 47.91 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:29 | 49.54 | 48.24 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:42:30 | 49.87 | 48.57 | 915 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 22:43:12 | 50.20 | 48.90 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 22:43:13 | 50.53 | 49.23 | 71 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 22:43:17 | 50.85 | 49.55 | 17 | 1.66 | 1.29 | 0.9 |
| 4/22/2015 22:43:26 | 51.18 | 49.88 | 46 | 1.66 | 1.29 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:43:35 | 51.51 | 50.21 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 22:43:36 | 51.84 | 50.54 | 202 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 | 22:43:38 | 52.17 | 50.87 | 249 | 1.66 | 1.29 | 13.6 |
| 4/22/2015 | 22:43:39 | 52.49 | 51.19 | 261 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 | 22:43:40 | 52.82 | 51.52 | 370 | 1.66 | 1.29 | 20.3 |
| 4/22/2015 | 22:43:41 | 53.15 | 51.85 | 363 | 1.66 | 1.29 | 19.9 |
| 4/22/2015 | 22:43:43 | 53.48 | 52.18 | 179 | 1.66 | 1.29 | 9.8 |
| 4/22/2015 | 22:43:51 | 53.81 | 52.51 | 12 | 1.66 | 1.29 | 0.6 |
| 4/22/2015 | 22:44:18 | 54.13 | 52.83 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 22:44:24 | 54.46 | 53.16 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 | 22:44:28 | 54.79 | 53.49 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 22:44:32 | 55.12 | 53.82 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 22:44:38 | 55.45 | 54.15 | 63 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 22:44:44 | 55.77 | 54.47 | 59 | 1.66 | 1.29 | 3.2 |
| 4/22/2015 | 22:44:50 | 56.10 | 54.80 | 61 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 | 22:44:58 | 56.27 | 54.97 | 0 | 1.66 | 1.29 | 0.0 |

## F60 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 22:30:26

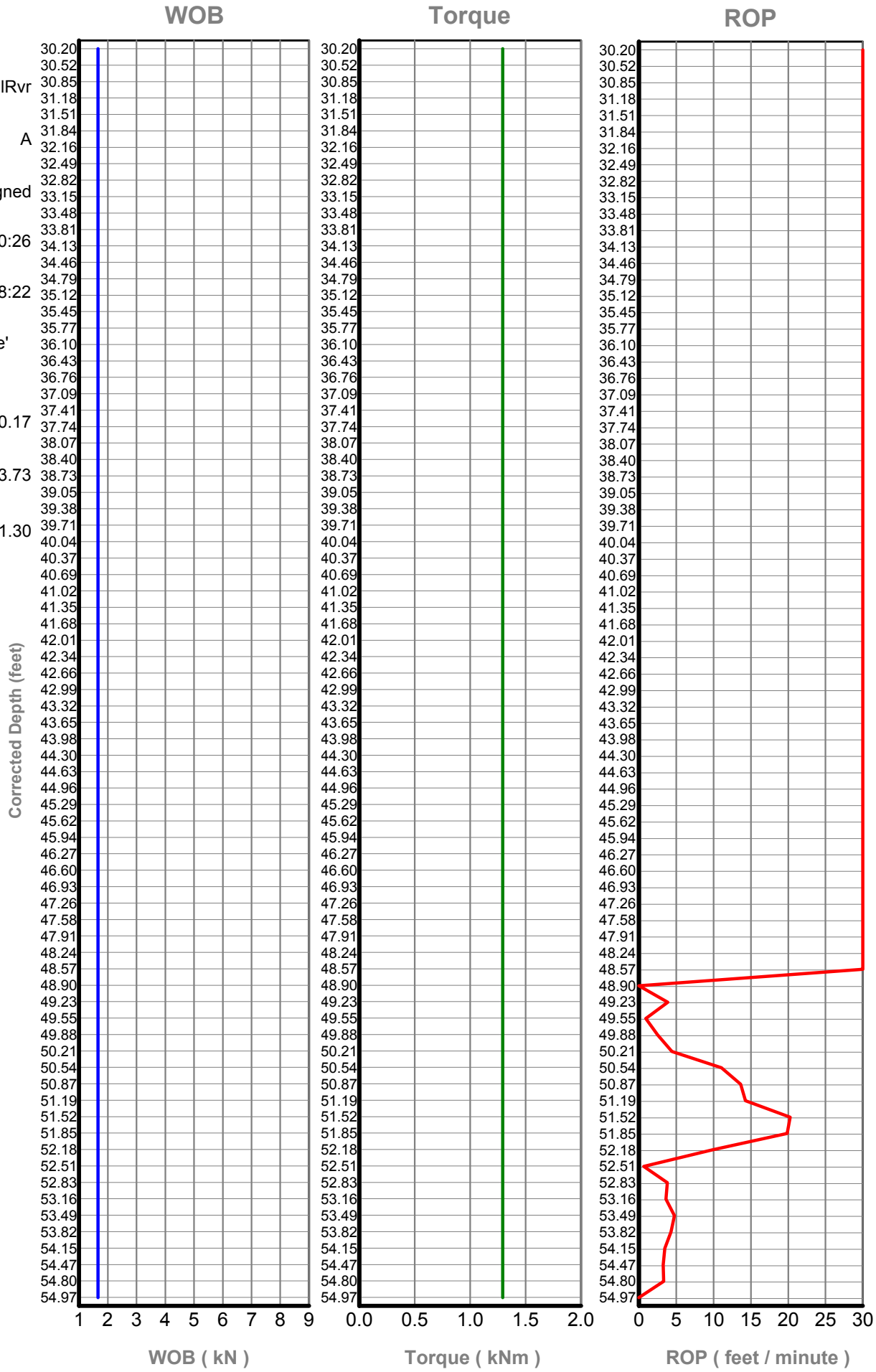
**End Date:**
4/22/2015 22:48:22

**Operator Note:**
'1.3 1.3 b Auto Complete'

**Northing:**
367,620.17

**Easting:**
252,073.73

**Tide (feet):**
1.30



## Hole: F61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:40:10 | 31.50 | 30.30 | 524 | 1.72 | 0.16 | 28.6 |
| 4/22/2015 22:40:10 | 31.82 | 30.62 | 514 | 1.70 | 0.16 | 28.1 |
| 4/22/2015 22:40:11 | 32.15 | 30.95 | 519 | 1.72 | 0.16 | 28.4 |
| 4/22/2015 22:40:12 | 32.48 | 31.28 | 519 | 1.69 | 0.16 | 28.4 |
| 4/22/2015 22:40:12 | 32.81 | 31.61 | 525 | 1.70 | 0.16 | 28.7 |
| 4/22/2015 22:40:13 | 33.14 | 31.94 | 531 | 1.72 | 0.16 | 29.0 |
| 4/22/2015 22:40:14 | 33.46 | 32.26 | 529 | 1.70 | 0.16 | 28.9 |
| 4/22/2015 22:40:14 | 33.79 | 32.59 | 526 | 1.69 | 0.16 | 28.8 |
| 4/22/2015 22:40:15 | 34.12 | 32.92 | 526 | 1.68 | 0.16 | 28.8 |
| 4/22/2015 22:40:16 | 34.45 | 33.25 | 529 | 1.70 | 0.16 | 28.9 |
| 4/22/2015 22:40:16 | 34.78 | 33.58 | 526 | 1.68 | 0.16 | 28.8 |
| 4/22/2015 22:40:17 | 35.11 | 33.91 | 523 | 1.68 | 0.16 | 28.6 |
| 4/22/2015 22:40:18 | 35.43 | 34.23 | 526 | 1.70 | 0.16 | 28.8 |
| 4/22/2015 22:40:19 | 35.76 | 34.56 | 520 | 1.68 | 0.16 | 28.4 |
| 4/22/2015 22:40:19 | 36.09 | 34.89 | 524 | 1.74 | 0.16 | 28.6 |
| 4/22/2015 22:40:20 | 36.42 | 35.22 | 515 | 1.67 | 0.16 | 28.2 |
| 4/22/2015 22:40:21 | 36.75 | 35.55 | 515 | 1.68 | 0.15 | 28.2 |
| 4/22/2015 22:40:21 | 37.07 | 35.87 | 518 | 1.68 | 0.16 | 28.3 |
| 4/22/2015 22:40:22 | 37.40 | 36.20 | 520 | 1.66 | 0.16 | 28.4 |
| 4/22/2015 22:40:23 | 37.73 | 36.53 | 520 | 1.69 | 0.16 | 28.4 |
| 4/22/2015 22:40:23 | 38.06 | 36.86 | 531 | 1.70 | 0.16 | 29.1 |
| 4/22/2015 22:40:24 | 38.39 | 37.19 | 526 | 1.70 | 0.16 | 28.8 |
| 4/22/2015 22:40:25 | 38.71 | 37.51 | 523 | 1.72 | 0.16 | 28.6 |
| 4/22/2015 22:40:25 | 39.04 | 37.84 | 523 | 1.70 | 0.16 | 28.6 |
| 4/22/2015 22:40:26 | 39.37 | 38.17 | 526 | 1.69 | 0.16 | 28.8 |
| 4/22/2015 22:40:27 | 39.70 | 38.50 | 523 | 1.72 | 0.15 | 28.6 |
| 4/22/2015 22:40:27 | 40.03 | 38.83 | 523 | 1.70 | 0.16 | 28.6 |
| 4/22/2015 22:40:28 | 40.35 | 39.15 | 523 | 1.70 | 0.16 | 28.6 |
| 4/22/2015 22:40:29 | 40.68 | 39.48 | 523 | 1.70 | 0.15 | 28.6 |
| 4/22/2015 22:40:30 | 41.01 | 39.81 | 523 | 1.68 | 0.15 | 28.6 |
| 4/22/2015 22:40:30 | 41.34 | 40.14 | 520 | 1.69 | 0.16 | 28.4 |
| 4/22/2015 22:40:31 | 41.67 | 40.47 | 523 | 1.72 | 0.16 | 28.6 |
| 4/22/2015 22:40:32 | 41.99 | 40.79 | 520 | 1.66 | 0.16 | 28.4 |
| 4/22/2015 22:40:32 | 42.32 | 41.12 | 520 | 1.72 | 0.16 | 28.4 |
| 4/22/2015 22:40:33 | 42.65 | 41.45 | 512 | 1.70 | 0.16 | 28.0 |
| 4/22/2015 22:40:34 | 42.98 | 41.78 | 512 | 1.66 | 0.16 | 28.0 |
| 4/22/2015 22:40:34 | 43.31 | 42.11 | 515 | 1.68 | 0.16 | 28.2 |
| 4/22/2015 22:40:35 | 43.64 | 42.44 | 515 | 1.67 | 0.16 | 28.2 |
| 4/22/2015 22:40:36 | 43.96 | 42.76 | 512 | 1.66 | 0.16 | 28.0 |
| 4/22/2015 22:40:36 | 44.29 | 43.09 | 524 | 1.69 | 0.16 | 28.6 |
| 4/22/2015 22:40:37 | 44.62 | 43.42 | 520 | 1.70 | 0.16 | 28.5 |
| 4/22/2015 22:40:38 | 44.95 | 43.75 | 520 | 1.68 | 0.16 | 28.5 |
| 4/22/2015 22:40:38 | 45.28 | 44.08 | 524 | 1.68 | 0.16 | 28.6 |
| 4/22/2015 22:40:40 | 45.60 | 44.40 | 520 | 1.66 | 0.16 | 28.5 |
| 4/22/2015 22:40:40 | 45.93 | 44.73 | 517 | 1.72 | 0.16 | 28.3 |
| 4/22/2015 22:40:41 | 46.26 | 45.06 | 517 | 1.68 | 0.17 | 28.3 |
| 4/22/2015 22:40:42 | 46.59 | 45.39 | 517 | 1.70 | 0.16 | 28.3 |
| 4/22/2015 22:40:42 | 46.92 | 45.72 | 517 | 1.70 | 0.16 | 28.3 |
| 4/22/2015 22:40:43 | 47.24 | 46.04 | 520 | 1.66 | 0.16 | 28.5 |
| 4/22/2015 22:40:43 | 47.57 | 46.37 | 520 | 1.74 | 0.16 | 28.5 |
| 4/22/2015 22:40:44 | 47.90 | 46.70 | 520 | 1.66 | 0.15 | 28.5 |
| 4/22/2015 22:40:45 | 48.23 | 47.03 | 514 | 1.68 | 0.15 | 28.1 |
| 4/22/2015 22:40:45 | 48.56 | 47.36 | 506 | 1.71 | 0.16 | 27.7 |
| 4/22/2015 22:40:46 | 48.88 | 47.68 | 509 | 1.67 | 0.15 | 27.8 |
| 4/22/2015 22:41:32 | 49.21 | 48.01 | 0 | 1.70 | 1.06 | 0.0 |
| 4/22/2015 22:41:54 | 49.54 | 48.34 | 89 | 1.67 | 0.94 | 4.9 |
| 4/22/2015 22:41:55 | 49.87 | 48.67 | 230 | 1.68 | 0.94 | 12.6 |
| 4/22/2015 22:41:58 | 50.20 | 49.00 | 3 | 1.65 | 1.23 | 0.2 |
| 4/22/2015 22:42:04 | 50.53 | 49.33 | 18 | 1.70 | 1.46 | 1.0 |
| 4/22/2015 22:42:27 | 50.85 | 49.65 | 0 | 1.68 | 1.33 | 0.0 |
| 4/22/2015 22:42:29 | 51.18 | 49.98 | 108 | 1.69 | 1.18 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:42:40 | 51.51 | 50.31 | 3 | 1.69 | 1.23 | 0.2 |
| 4/22/2015 | 22:42:42 | 51.84 | 50.64 | 130 | 1.67 | 1.05 | 7.1 |
| 4/22/2015 | 22:42:58 | 52.17 | 50.97 | 0 | 1.67 | 1.05 | 0.0 |
| 4/22/2015 | 22:43:01 | 52.49 | 51.29 | 170 | 1.68 | 1.14 | 9.3 |
| 4/22/2015 | 22:43:03 | 52.82 | 51.62 | 185 | 1.71 | 1.03 | 10.1 |
| 4/22/2015 | 22:43:17 | 53.15 | 51.95 | 3 | 1.69 | 0.93 | 0.2 |
| 4/22/2015 | 22:43:18 | 53.48 | 52.28 | 157 | 1.69 | 1.00 | 8.6 |
| 4/22/2015 | 22:43:19 | 53.81 | 52.61 | 292 | 1.68 | 1.04 | 16.0 |
| 4/22/2015 | 22:43:34 | 54.13 | 52.93 | 0 | 1.68 | 1.23 | 0.0 |
| 4/22/2015 | 22:43:36 | 54.46 | 53.26 | 144 | 1.66 | 1.22 | 7.9 |
| 4/22/2015 | 22:43:43 | 54.79 | 53.59 | 49 | 1.65 | 1.52 | 2.7 |
| 4/22/2015 | 22:43:45 | 55.12 | 53.92 | 156 | 1.65 | 1.14 | 8.5 |
| 4/22/2015 | 22:44:20 | 55.45 | 54.25 | 6 | 1.68 | 1.00 | 0.3 |
| 4/22/2015 | 22:44:22 | 55.77 | 54.57 | 124 | 1.68 | 1.17 | 6.8 |
| 4/22/2015 | 22:44:24 | 56.10 | 54.90 | 188 | 1.68 | 1.08 | 10.3 |
| 4/22/2015 | 22:44:25 | 56.40 | 55.20 | 216 | 1.69 | 1.08 | 11.8 |

## F61 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 22:38:31

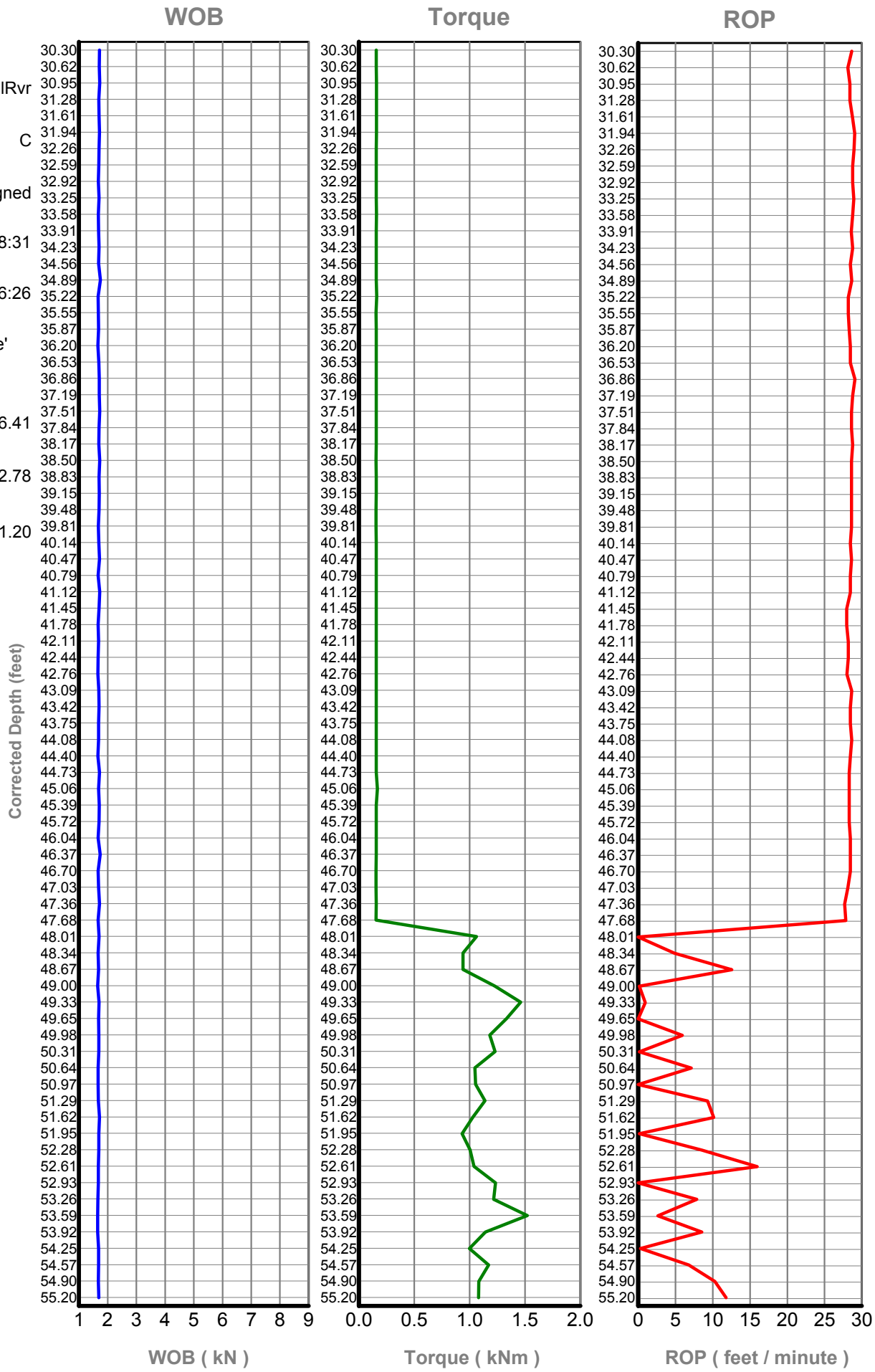
**End Date:**
4/22/2015 22:46:26

**Operator Note:**
'1.2 1.3 c Auto Complete'

**Northing:**
367,666.41

**Easting:**
252,132.78

**Tide (feet):**
1.20



## Hole: F62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 13:19:25 | 34.12 | 30.32 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 13:19:25 | 34.45 | 30.65 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 13:19:26 | 34.78 | 30.98 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 13:19:26 | 35.11 | 31.31 | 1,001 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 13:19:27 | 35.43 | 31.63 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 13:19:27 | 35.76 | 31.96 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 13:19:27 | 36.09 | 32.29 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 13:19:28 | 36.42 | 32.62 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:28 | 36.75 | 32.95 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:28 | 37.07 | 33.27 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 13:19:29 | 37.40 | 33.60 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 13:19:29 | 37.73 | 33.93 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 13:19:30 | 38.06 | 34.26 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 13:19:30 | 38.39 | 34.59 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 13:19:30 | 38.71 | 34.91 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 13:19:31 | 39.04 | 35.24 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 13:19:31 | 39.37 | 35.57 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 13:19:31 | 39.70 | 35.90 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 13:19:32 | 40.03 | 36.23 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 13:19:32 | 40.35 | 36.55 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:32 | 40.68 | 36.88 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 13:19:33 | 41.01 | 37.21 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 13:19:33 | 41.34 | 37.54 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 13:19:33 | 41.67 | 37.87 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:34 | 41.99 | 38.19 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:19:34 | 42.32 | 38.52 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:19:34 | 42.65 | 38.85 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:35 | 42.98 | 39.18 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:35 | 43.31 | 39.51 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:35 | 43.64 | 39.84 | 998 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 13:19:36 | 43.96 | 40.16 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:36 | 44.29 | 40.49 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:36 | 44.62 | 40.82 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 13:19:37 | 44.95 | 41.15 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:19:37 | 45.28 | 41.48 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:19:38 | 45.60 | 41.80 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 13:19:38 | 45.93 | 42.13 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 13:19:39 | 46.26 | 42.46 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 13:19:39 | 46.59 | 42.79 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 13:19:39 | 46.92 | 43.12 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 13:19:40 | 47.24 | 43.44 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 13:19:40 | 47.57 | 43.77 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 13:19:40 | 47.90 | 44.10 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 13:19:41 | 48.23 | 44.43 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 13:19:41 | 48.56 | 44.76 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 13:19:50 | 48.88 | 45.08 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:19:54 | 49.21 | 45.41 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 13:19:55 | 49.54 | 45.74 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 13:19:55 | 49.87 | 46.07 | 238 | 1.66 | 1.29 | 13.0 |
| 4/22/2015 13:19:56 | 50.20 | 46.40 | 392 | 1.66 | 1.29 | 21.4 |
| 4/22/2015 13:19:57 | 50.53 | 46.73 | 433 | 1.66 | 1.29 | 23.7 |
| 4/22/2015 13:20:15 | 50.85 | 47.05 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:20:16 | 51.18 | 47.38 | 130 | 1.66 | 1.29 | 7.1 |
| 4/22/2015 13:20:23 | 51.51 | 47.71 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:20:25 | 51.84 | 48.04 | 158 | 1.66 | 1.29 | 8.6 |
| 4/22/2015 13:20:27 | 52.17 | 48.37 | 199 | 1.66 | 1.29 | 10.9 |
| 4/22/2015 13:20:41 | 52.49 | 48.69 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:20:42 | 52.82 | 49.02 | 124 | 1.66 | 1.29 | 6.8 |
| 4/22/2015 13:20:56 | 53.15 | 49.35 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:20:57 | 53.48 | 49.68 | 137 | 1.66 | 1.29 | 7.5 |
| 4/22/2015 13:20:57 | 53.81 | 50.01 | 217 | 1.66 | 1.29 | 11.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 13:22:00 | 54.13 | 50.33 | 3 | 1.66 | 1.29 | 0.2 |
| 4/22/2015 | 13:22:00 | 54.46 | 50.66 | 121 | 1.66 | 1.29 | 6.6 |
| 4/22/2015 | 13:22:01 | 54.79 | 50.99 | 226 | 1.66 | 1.29 | 12.4 |
| 4/22/2015 | 13:22:02 | 55.12 | 51.32 | 398 | 1.66 | 1.29 | 21.7 |
| 4/22/2015 | 13:22:03 | 55.45 | 51.65 | 396 | 1.66 | 1.29 | 21.7 |
| 4/22/2015 | 13:22:04 | 55.77 | 51.97 | 299 | 1.66 | 1.29 | 16.4 |
| 4/22/2015 | 13:22:05 | 56.10 | 52.30 | 305 | 1.66 | 1.29 | 16.7 |
| 4/22/2015 | 13:22:06 | 56.43 | 52.63 | 308 | 1.66 | 1.29 | 16.8 |
| 4/22/2015 | 13:22:08 | 56.76 | 52.96 | 273 | 1.66 | 1.29 | 14.9 |
| 4/22/2015 | 13:22:09 | 57.09 | 53.29 | 244 | 1.66 | 1.29 | 13.3 |
| 4/22/2015 | 13:22:11 | 57.41 | 53.61 | 238 | 1.66 | 1.29 | 13.0 |
| 4/22/2015 | 13:22:13 | 57.74 | 53.94 | 203 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 | 13:22:15 | 58.07 | 54.27 | 204 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 | 13:22:17 | 58.40 | 54.60 | 185 | 1.66 | 1.29 | 10.1 |
| 4/22/2015 | 13:22:17 | 58.48 | 54.68 | 185 | 1.66 | 1.29 | 10.1 |

## F62 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 13:17:51

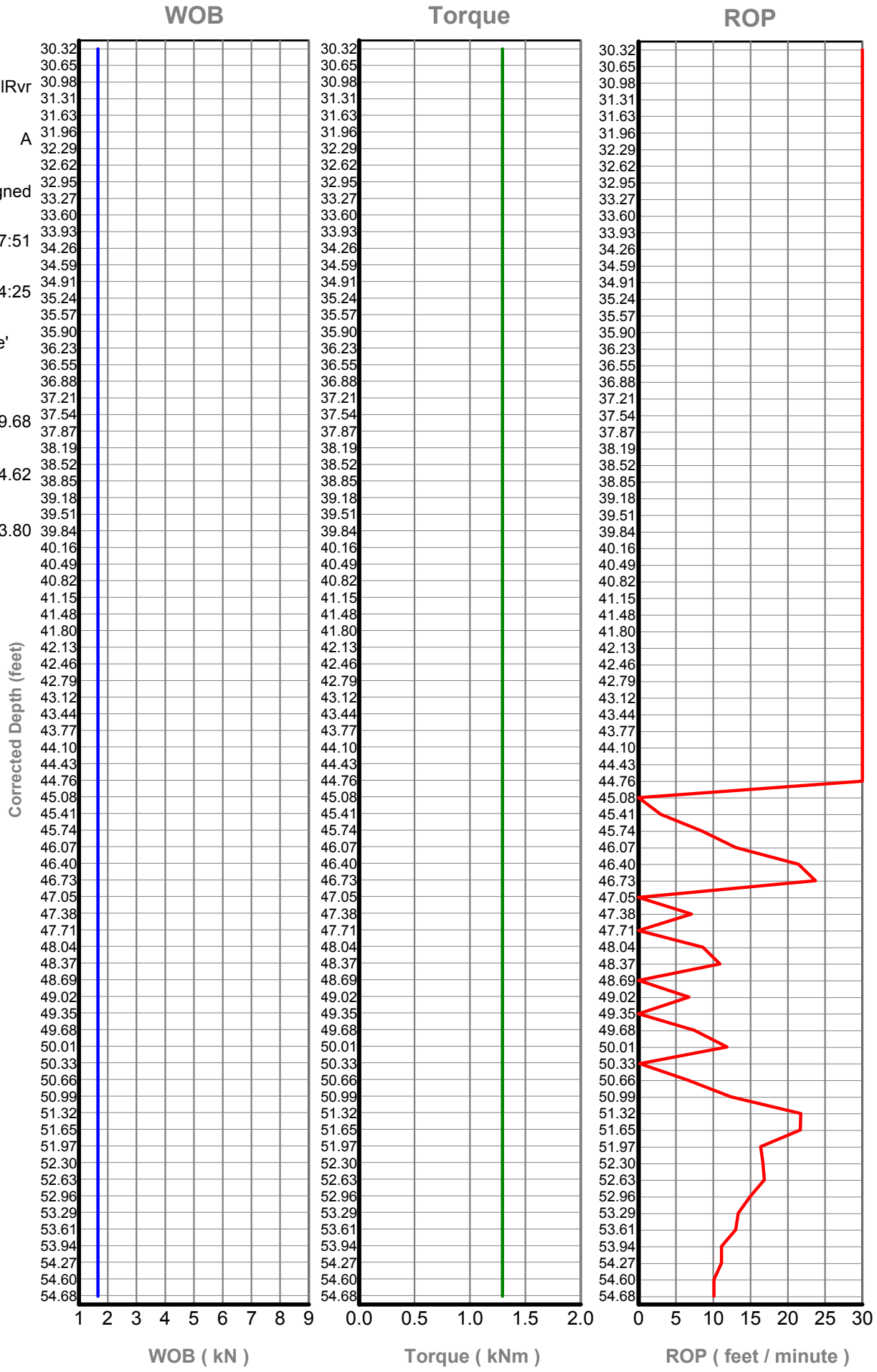
**End Date:**
4/22/2015 13:24:25

**Operator Note:**
'3.8 3.4 b Auto Complete'

**Northing:**
367,739.68

**Easting:**
252,214.62

**Tide (feet):**
3.80



## Hole: F63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 13:26:33 | 34.12 | 30.22 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 13:26:33 | 34.45 | 30.55 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 13:26:34 | 34.78 | 30.88 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 13:26:34 | 35.11 | 31.21 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 13:26:34 | 35.43 | 31.53 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 13:26:35 | 35.76 | 31.86 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 13:26:35 | 36.09 | 32.19 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 13:26:35 | 36.42 | 32.52 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 13:26:36 | 36.75 | 32.85 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 13:26:36 | 37.07 | 33.17 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 13:26:36 | 37.40 | 33.50 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 13:26:37 | 37.73 | 33.83 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 13:26:37 | 38.06 | 34.16 | 1,038 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 13:26:37 | 38.39 | 34.49 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 13:26:38 | 38.71 | 34.81 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 13:26:38 | 39.04 | 35.14 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 13:26:39 | 39.37 | 35.47 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 13:26:39 | 39.70 | 35.80 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 13:26:39 | 40.03 | 36.13 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 13:26:40 | 40.35 | 36.45 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 13:26:40 | 40.68 | 36.78 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 13:26:40 | 41.01 | 37.11 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 13:26:41 | 41.34 | 37.44 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 13:26:41 | 41.67 | 37.77 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 13:26:41 | 41.99 | 38.09 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 13:26:42 | 42.32 | 38.42 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 13:26:42 | 42.65 | 38.75 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 13:26:42 | 42.98 | 39.08 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 13:26:43 | 43.31 | 39.41 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 13:26:55 | 43.64 | 39.74 | 1 | 1.66 | 1.29 | 0.1 |
| 4/22/2015 13:26:56 | 43.96 | 40.06 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 13:26:56 | 44.29 | 40.39 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 13:26:56 | 44.62 | 40.72 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 13:26:57 | 44.95 | 41.05 | 366 | 1.66 | 1.29 | 20.0 |
| 4/22/2015 13:26:57 | 45.28 | 41.38 | 366 | 1.66 | 1.29 | 20.0 |
| 4/22/2015 13:26:57 | 45.60 | 41.70 | 558 | 1.66 | 1.29 | 30.5 |
| 4/22/2015 13:26:58 | 45.93 | 42.03 | 758 | 1.66 | 1.29 | 41.5 |
| 4/22/2015 13:26:58 | 46.26 | 42.36 | 758 | 1.66 | 1.29 | 41.5 |
| 4/22/2015 13:26:58 | 46.59 | 42.69 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 13:26:59 | 46.92 | 43.02 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 13:27:00 | 47.24 | 43.34 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 13:26:59 | 47.57 | 43.67 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 13:27:00 | 47.90 | 44.00 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 13:27:01 | 48.23 | 44.33 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 13:27:00 | 48.56 | 44.66 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:27:01 | 48.88 | 44.98 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 13:27:02 | 49.21 | 45.31 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 13:27:35 | 49.54 | 45.64 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 13:27:39 | 49.87 | 45.97 | 93 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 13:27:41 | 50.20 | 46.30 | 94 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 13:27:44 | 50.53 | 46.63 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 13:27:48 | 50.85 | 46.95 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 13:27:51 | 51.18 | 47.28 | 104 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 13:27:54 | 51.51 | 47.61 | 134 | 1.66 | 1.29 | 7.3 |
| 4/22/2015 13:27:56 | 51.84 | 47.94 | 157 | 1.66 | 1.29 | 8.6 |
| 4/22/2015 13:27:57 | 52.17 | 48.27 | 207 | 1.66 | 1.29 | 11.3 |
| 4/22/2015 13:27:58 | 52.49 | 48.59 | 263 | 1.66 | 1.29 | 14.4 |
| 4/22/2015 13:27:59 | 52.82 | 48.92 | 373 | 1.66 | 1.29 | 20.4 |
| 4/22/2015 13:28:01 | 53.15 | 49.25 | 243 | 1.66 | 1.29 | 13.3 |
| 4/22/2015 13:28:03 | 53.48 | 49.58 | 146 | 1.66 | 1.29 | 8.0 |
| 4/22/2015 13:28:06 | 53.81 | 49.91 | 151 | 1.66 | 1.29 | 8.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 13:28:07 | 54.13 | 50.23 | 144 | 1.66 | 1.29 | 7.9 |
| 4/22/2015 | 13:28:23 | 54.46 | 50.56 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 | 13:28:25 | 54.79 | 50.89 | 133 | 1.66 | 1.29 | 7.3 |
| 4/22/2015 | 13:28:28 | 55.12 | 51.22 | 128 | 1.66 | 1.29 | 7.0 |
| 4/22/2015 | 13:28:30 | 55.45 | 51.55 | 106 | 1.66 | 1.29 | 5.8 |
| 4/22/2015 | 13:29:11 | 55.77 | 51.87 | 14 | 1.66 | 1.29 | 0.8 |
| 4/22/2015 | 13:29:12 | 56.10 | 52.20 | 132 | 1.66 | 1.29 | 7.2 |
| 4/22/2015 | 13:29:13 | 56.43 | 52.53 | 247 | 1.66 | 1.29 | 13.5 |
| 4/22/2015 | 13:29:14 | 56.76 | 52.86 | 298 | 1.66 | 1.29 | 16.3 |
| 4/22/2015 | 13:29:15 | 57.09 | 53.19 | 285 | 1.66 | 1.29 | 15.6 |
| 4/22/2015 | 13:29:17 | 57.41 | 53.51 | 243 | 1.66 | 1.29 | 13.3 |
| 4/22/2015 | 13:29:19 | 57.74 | 53.84 | 246 | 1.66 | 1.29 | 13.4 |
| 4/22/2015 | 13:29:20 | 58.07 | 54.17 | 260 | 1.66 | 1.29 | 14.2 |
| 4/22/2015 | 13:29:21 | 58.40 | 54.50 | 270 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 | 13:29:21 | 58.46 | 54.56 | 270 | 1.66 | 1.29 | 14.7 |

## F63 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 13:25:11

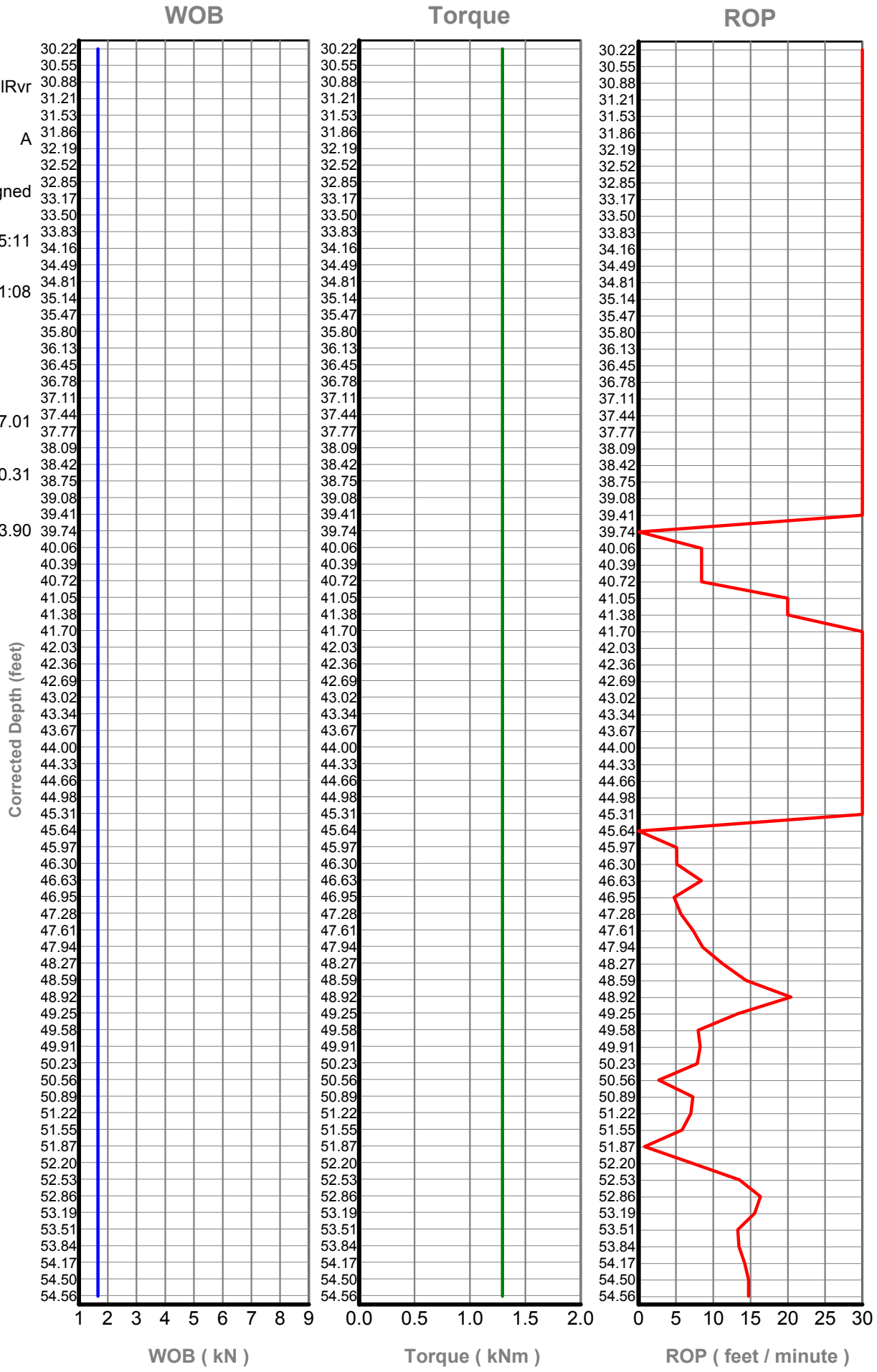
**End Date:**
4/22/2015 13:31:08

**Operator Note:**
'3.9 '4.5 3.4 b Auto Complete'

**Northing:**
367,777.01

**Easting:**
252,260.31

**Tide (feet):**
3.90



## Hole: F64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 13:20:49 | 34.12 | 30.32 | 537 | 1.73 | 0.30 | 29.4 |
| 4/22/2015 13:20:50 | 34.45 | 30.65 | 548 | 1.70 | 0.29 | 30.0 |
| 4/22/2015 13:20:50 | 34.78 | 30.98 | 542 | 1.70 | 0.30 | 29.6 |
| 4/22/2015 13:20:51 | 35.11 | 31.31 | 539 | 1.70 | 0.30 | 29.5 |
| 4/22/2015 13:20:51 | 35.43 | 31.63 | 539 | 1.68 | 0.30 | 29.5 |
| 4/22/2015 13:20:52 | 35.76 | 31.96 | 536 | 1.71 | 0.29 | 29.3 |
| 4/22/2015 13:20:53 | 36.09 | 32.29 | 536 | 1.71 | 0.30 | 29.3 |
| 4/22/2015 13:20:54 | 36.42 | 32.62 | 541 | 1.70 | 0.30 | 29.6 |
| 4/22/2015 13:20:54 | 36.75 | 32.95 | 551 | 1.73 | 0.29 | 30.1 |
| 4/22/2015 13:20:55 | 37.07 | 33.27 | 551 | 1.70 | 0.27 | 30.1 |
| 4/22/2015 13:20:56 | 37.40 | 33.60 | 567 | 1.73 | 0.29 | 31.0 |
| 4/22/2015 13:20:56 | 37.73 | 33.93 | 559 | 1.72 | 0.29 | 30.6 |
| 4/22/2015 13:20:57 | 38.06 | 34.26 | 555 | 1.70 | 0.29 | 30.4 |
| 4/22/2015 13:20:57 | 38.39 | 34.59 | 558 | 1.72 | 0.29 | 30.5 |
| 4/22/2015 13:20:58 | 38.71 | 34.91 | 552 | 1.73 | 0.29 | 30.2 |
| 4/22/2015 13:20:59 | 39.04 | 35.24 | 555 | 1.70 | 0.30 | 30.4 |
| 4/22/2015 13:20:59 | 39.37 | 35.57 | 552 | 1.72 | 0.30 | 30.2 |
| 4/22/2015 13:21:00 | 39.70 | 35.90 | 558 | 1.68 | 0.30 | 30.5 |
| 4/22/2015 13:21:01 | 40.03 | 36.23 | 555 | 1.72 | 0.30 | 30.4 |
| 4/22/2015 13:21:02 | 40.35 | 36.55 | 555 | 1.72 | 0.30 | 30.4 |
| 4/22/2015 13:21:03 | 40.68 | 36.88 | 555 | 1.72 | 0.30 | 30.4 |
| 4/22/2015 13:21:02 | 41.01 | 37.21 | 557 | 1.72 | 0.31 | 30.4 |
| 4/22/2015 13:21:03 | 41.34 | 37.54 | 554 | 1.74 | 0.30 | 30.3 |
| 4/22/2015 13:21:04 | 41.67 | 37.87 | 557 | 1.69 | 0.29 | 30.4 |
| 4/22/2015 13:21:05 | 41.99 | 38.19 | 554 | 1.72 | 0.29 | 30.3 |
| 4/22/2015 13:21:05 | 42.32 | 38.52 | 555 | 1.70 | 0.29 | 30.4 |
| 4/22/2015 13:21:06 | 42.65 | 38.85 | 549 | 1.69 | 0.29 | 30.0 |
| 4/22/2015 13:21:07 | 42.98 | 39.18 | 552 | 1.68 | 0.29 | 30.2 |
| 4/22/2015 13:21:07 | 43.31 | 39.51 | 555 | 1.71 | 0.29 | 30.4 |
| 4/22/2015 13:21:08 | 43.64 | 39.84 | 549 | 1.73 | 0.30 | 30.0 |
| 4/22/2015 13:21:08 | 43.96 | 40.16 | 552 | 1.70 | 0.29 | 30.2 |
| 4/22/2015 13:21:09 | 44.29 | 40.49 | 549 | 1.71 | 0.29 | 30.0 |
| 4/22/2015 13:21:10 | 44.62 | 40.82 | 546 | 1.71 | 0.30 | 29.9 |
| 4/22/2015 13:21:10 | 44.95 | 41.15 | 552 | 1.71 | 0.29 | 30.2 |
| 4/22/2015 13:21:11 | 45.28 | 41.48 | 549 | 1.72 | 0.29 | 30.0 |
| 4/22/2015 13:21:12 | 45.60 | 41.80 | 549 | 1.72 | 0.29 | 30.0 |
| 4/22/2015 13:21:12 | 45.93 | 42.13 | 549 | 1.71 | 0.29 | 30.0 |
| 4/22/2015 13:21:13 | 46.26 | 42.46 | 549 | 1.70 | 0.29 | 30.0 |
| 4/22/2015 13:21:13 | 46.59 | 42.79 | 549 | 1.70 | 0.29 | 30.0 |
| 4/22/2015 13:21:15 | 46.92 | 43.12 | 549 | 1.72 | 0.29 | 30.0 |
| 4/22/2015 13:21:15 | 47.24 | 43.44 | 549 | 1.68 | 0.29 | 30.0 |
| 4/22/2015 13:21:16 | 47.57 | 43.77 | 549 | 1.70 | 0.29 | 30.0 |
| 4/22/2015 13:21:32 | 47.90 | 44.10 | 13 | 1.69 | 1.08 | 0.7 |
| 4/22/2015 13:21:34 | 48.23 | 44.43 | 94 | 1.71 | 0.94 | 5.2 |
| 4/22/2015 13:21:36 | 48.56 | 44.76 | 159 | 1.71 | 1.13 | 8.7 |
| 4/22/2015 13:21:39 | 48.88 | 45.08 | 117 | 1.68 | 1.09 | 6.4 |
| 4/22/2015 13:21:47 | 49.21 | 45.41 | 43 | 1.68 | 1.11 | 2.4 |
| 4/22/2015 13:21:53 | 49.54 | 45.74 | 61 | 1.70 | 1.08 | 3.3 |
| 4/22/2015 13:22:00 | 49.87 | 46.07 | 51 | 1.69 | 1.05 | 2.8 |
| 4/22/2015 13:22:07 | 50.20 | 46.40 | 47 | 1.70 | 1.05 | 2.6 |
| 4/22/2015 13:22:15 | 50.53 | 46.73 | 43 | 1.70 | 1.15 | 2.4 |
| 4/22/2015 13:22:23 | 50.85 | 47.05 | 43 | 1.66 | 1.16 | 2.4 |
| 4/22/2015 13:22:30 | 51.18 | 47.38 | 50 | 1.67 | 1.09 | 2.7 |
| 4/22/2015 13:22:36 | 51.47 | 47.67 | 43 | 1.67 | 1.19 | 2.4 |

## F64 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 13:19:11

**End Date:**
4/22/2015 13:24:27

**Operator Note:**
'3.8 3.4 x Auto Complete'

**Northing:**
367,824.46

**Easting:**
252,318.39

**Tide (feet):**
3.80



## Hole: F65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:21:09 | 31.50 | 30.20 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:10 | 31.82 | 30.52 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:10 | 32.15 | 30.85 | 1,071 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 10:21:11 | 32.48 | 31.18 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:11 | 32.81 | 31.51 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:11 | 33.14 | 31.84 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:21:12 | 33.46 | 32.16 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:12 | 33.79 | 32.49 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:12 | 34.12 | 32.82 | 1,074 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:13 | 34.45 | 33.15 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:13 | 34.78 | 33.48 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:13 | 35.11 | 33.81 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:14 | 35.43 | 34.13 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 10:21:14 | 35.76 | 34.46 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 10:21:14 | 36.09 | 34.79 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:15 | 36.42 | 35.12 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:15 | 36.75 | 35.45 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 10:21:15 | 37.07 | 35.77 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:16 | 37.40 | 36.10 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:16 | 37.73 | 36.43 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:21:16 | 38.06 | 36.76 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:17 | 38.39 | 37.09 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:17 | 38.71 | 37.41 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:21:17 | 39.04 | 37.74 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:18 | 39.37 | 38.07 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:21:18 | 39.70 | 38.40 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:18 | 40.03 | 38.73 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 10:21:19 | 40.35 | 39.05 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 10:21:19 | 40.68 | 39.38 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:21:19 | 41.01 | 39.71 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:20 | 41.34 | 40.04 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:20 | 41.67 | 40.37 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:20 | 41.99 | 40.69 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:20 | 42.32 | 41.02 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:21:21 | 42.65 | 41.35 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:21 | 42.98 | 41.68 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:21:22 | 43.31 | 42.01 | 1,083 | 1.66 | 1.29 | 59.2 |
| 4/22/2015 10:21:22 | 43.64 | 42.34 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:21:23 | 43.96 | 42.66 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:21:23 | 44.29 | 42.99 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:23 | 44.62 | 43.32 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 10:21:24 | 44.95 | 43.65 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 10:21:24 | 45.28 | 43.98 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:24 | 45.60 | 44.30 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:25 | 45.93 | 44.63 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:25 | 46.26 | 44.96 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:21:34 | 46.59 | 45.29 | 69 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 10:21:35 | 46.92 | 45.62 | 166 | 1.66 | 1.29 | 9.1 |
| 4/22/2015 10:21:36 | 47.24 | 45.94 | 343 | 1.66 | 1.29 | 18.8 |
| 4/22/2015 10:21:36 | 47.57 | 46.27 | 423 | 1.66 | 1.29 | 23.1 |
| 4/22/2015 10:21:37 | 47.90 | 46.60 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 10:21:37 | 48.23 | 46.93 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 10:21:38 | 48.56 | 47.26 | 542 | 1.66 | 1.29 | 29.6 |
| 4/22/2015 10:21:38 | 48.88 | 47.58 | 590 | 1.66 | 1.29 | 32.3 |
| 4/22/2015 10:21:39 | 49.21 | 47.91 | 646 | 1.66 | 1.29 | 35.3 |
| 4/22/2015 10:21:39 | 49.54 | 48.24 | 701 | 1.66 | 1.29 | 38.3 |
| 4/22/2015 10:21:40 | 49.87 | 48.57 | 722 | 1.66 | 1.29 | 39.5 |
| 4/22/2015 10:21:40 | 50.20 | 48.90 | 672 | 1.66 | 1.29 | 36.7 |
| 4/22/2015 10:21:41 | 50.53 | 49.23 | 558 | 1.66 | 1.29 | 30.5 |
| 4/22/2015 10:21:55 | 50.85 | 49.55 | 69 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 10:21:56 | 51.18 | 49.88 | 228 | 1.66 | 1.29 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:21:57 | 51.51 | 50.21 | 353 | 1.66 | 1.29 | 19.3 |
| 4/22/2015 | 10:21:58 | 51.84 | 50.54 | 319 | 1.66 | 1.29 | 17.5 |
| 4/22/2015 | 10:22:00 | 52.17 | 50.87 | 262 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 | 10:22:02 | 52.49 | 51.19 | 212 | 1.66 | 1.29 | 11.6 |
| 4/22/2015 | 10:22:03 | 52.82 | 51.52 | 213 | 1.66 | 1.29 | 11.6 |
| 4/22/2015 | 10:22:05 | 53.15 | 51.85 | 225 | 1.66 | 1.29 | 12.3 |
| 4/22/2015 | 10:22:08 | 53.48 | 52.18 | 110 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 | 10:22:12 | 53.81 | 52.51 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 10:22:17 | 54.13 | 52.83 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 10:22:23 | 54.46 | 53.16 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 10:22:28 | 54.79 | 53.49 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 10:22:35 | 55.12 | 53.82 | 54 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 | 10:22:38 | 55.31 | 54.01 | 58 | 1.66 | 1.29 | 3.2 |

## F65 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:19:42

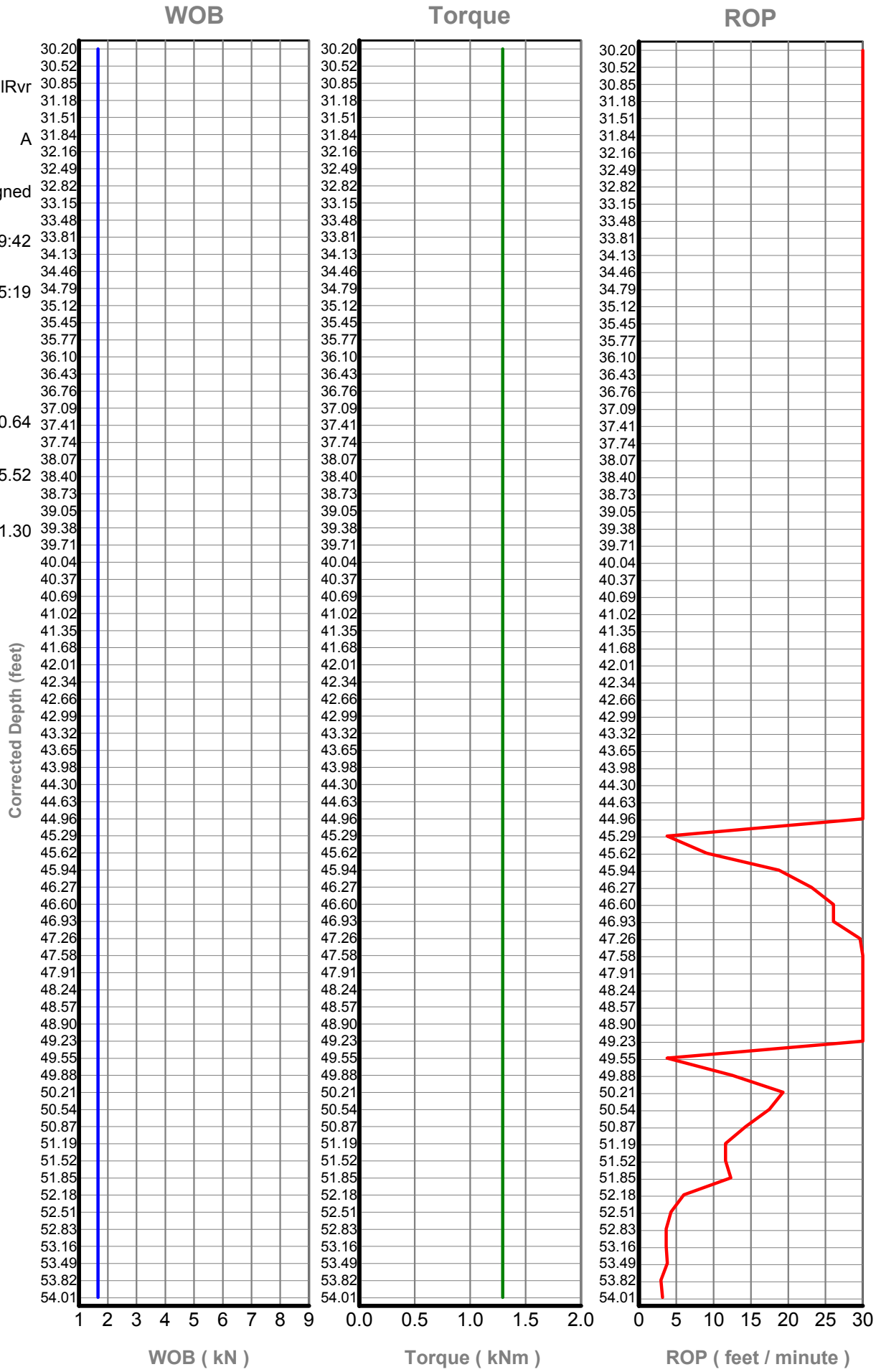
**End Date:**
4/22/2015 10:25:19

**Operator Note:**
'1.3 1.3 b Rock'

**Northing:**
367,870.64

**Easting:**
252,375.52

**Tide (feet):**
1.30



## Hole: F66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:27:22 | 31.50 | 30.30 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:23 | 31.82 | 30.62 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:27:23 | 32.15 | 30.95 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:27:23 | 32.48 | 31.28 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:27:24 | 32.81 | 31.61 | 1,045 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:27:25 | 33.14 | 31.94 | 1,045 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:27:25 | 33.46 | 32.26 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:27:25 | 33.79 | 32.59 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 10:27:26 | 34.12 | 32.92 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 10:27:26 | 34.45 | 33.25 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:27:26 | 34.78 | 33.58 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:27:27 | 35.11 | 33.91 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:27:27 | 35.43 | 34.23 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:27:27 | 35.76 | 34.56 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:27:27 | 36.09 | 34.89 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:27:28 | 36.42 | 35.22 | 1,038 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 10:27:28 | 36.75 | 35.55 | 1,038 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 10:27:28 | 37.07 | 35.87 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:27:29 | 37.40 | 36.20 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 10:27:29 | 37.73 | 36.53 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 10:27:29 | 38.06 | 36.86 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:30 | 38.39 | 37.19 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 10:27:30 | 38.71 | 37.51 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 10:27:30 | 39.04 | 37.84 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:31 | 39.37 | 38.17 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 10:27:31 | 39.70 | 38.50 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 10:27:31 | 40.03 | 38.83 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 10:27:32 | 40.35 | 39.15 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 10:27:32 | 40.68 | 39.48 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 10:27:33 | 41.01 | 39.81 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 10:27:33 | 41.34 | 40.14 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 10:27:33 | 41.67 | 40.47 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:27:34 | 41.99 | 40.79 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:27:34 | 42.32 | 41.12 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:27:34 | 42.65 | 41.45 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 10:27:35 | 42.98 | 41.78 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 10:27:35 | 43.31 | 42.11 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:36 | 43.64 | 42.44 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:36 | 43.96 | 42.76 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:27:36 | 44.29 | 43.09 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:27:37 | 44.62 | 43.42 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:27:37 | 44.95 | 43.75 | 1,045 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:27:37 | 45.28 | 44.08 | 1,045 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:27:38 | 45.60 | 44.40 | 1,045 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:27:38 | 45.93 | 44.73 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 10:27:44 | 46.26 | 45.06 | 5 | 1.66 | 1.29 | 0.3 |
| 4/22/2015 10:27:46 | 46.59 | 45.39 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 10:27:47 | 46.92 | 45.72 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 10:27:48 | 47.24 | 46.04 | 159 | 1.66 | 1.29 | 8.7 |
| 4/22/2015 10:27:56 | 47.57 | 46.37 | 71 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 10:27:58 | 47.90 | 46.70 | 189 | 1.66 | 1.29 | 10.3 |
| 4/22/2015 10:27:59 | 48.23 | 47.03 | 266 | 1.66 | 1.29 | 14.6 |
| 4/22/2015 10:28:00 | 48.56 | 47.36 | 307 | 1.66 | 1.29 | 16.8 |
| 4/22/2015 10:28:01 | 48.88 | 47.68 | 364 | 1.66 | 1.29 | 19.9 |
| 4/22/2015 10:28:01 | 49.21 | 48.01 | 384 | 1.66 | 1.29 | 21.0 |
| 4/22/2015 10:28:18 | 49.54 | 48.34 | 105 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 10:28:20 | 49.87 | 48.67 | 201 | 1.66 | 1.29 | 11.0 |
| 4/22/2015 10:28:21 | 50.20 | 49.00 | 294 | 1.66 | 1.29 | 16.1 |
| 4/22/2015 10:28:22 | 50.53 | 49.33 | 282 | 1.66 | 1.29 | 15.4 |
| 4/22/2015 10:28:23 | 50.85 | 49.65 | 350 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 10:28:23 | 51.18 | 49.98 | 431 | 1.66 | 1.29 | 23.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:28:24 | 51.51 | 50.31 | 498 | 1.66 | 1.29 | 27.2 |
| 4/22/2015 | 10:28:24 | 51.84 | 50.64 | 576 | 1.66 | 1.29 | 31.5 |
| 4/22/2015 | 10:28:25 | 52.17 | 50.97 | 583 | 1.66 | 1.29 | 31.9 |
| 4/22/2015 | 10:28:26 | 52.49 | 51.29 | 583 | 1.66 | 1.29 | 31.9 |
| 4/22/2015 | 10:28:26 | 52.82 | 51.62 | 566 | 1.66 | 1.29 | 30.9 |
| 4/22/2015 | 10:28:27 | 53.15 | 51.95 | 561 | 1.66 | 1.29 | 30.7 |
| 4/22/2015 | 10:28:27 | 53.48 | 52.28 | 536 | 1.66 | 1.29 | 29.3 |
| 4/22/2015 | 10:28:28 | 53.81 | 52.61 | 536 | 1.66 | 1.29 | 29.3 |
| 4/22/2015 | 10:28:28 | 54.13 | 52.93 | 577 | 1.66 | 1.29 | 31.6 |
| 4/22/2015 | 10:28:29 | 54.46 | 53.26 | 607 | 1.66 | 1.29 | 33.2 |
| 4/22/2015 | 10:28:30 | 54.79 | 53.59 | 516 | 1.66 | 1.29 | 28.2 |
| 4/22/2015 | 10:28:31 | 55.12 | 53.92 | 497 | 1.66 | 1.29 | 27.2 |
| 4/22/2015 | 10:28:33 | 55.45 | 54.25 | 409 | 1.66 | 1.29 | 22.4 |
| 4/22/2015 | 10:28:34 | 55.77 | 54.57 | 347 | 1.66 | 1.29 | 19.0 |
| 4/22/2015 | 10:28:35 | 56.10 | 54.90 | 316 | 1.66 | 1.29 | 17.3 |
| 4/22/2015 | 10:28:36 | 56.43 | 55.23 | 334 | 1.66 | 1.29 | 18.3 |
| 4/22/2015 | 10:28:36 | 56.76 | 55.56 | 375 | 1.66 | 1.29 | 20.5 |
| 4/22/2015 | 10:28:37 | 57.09 | 55.89 | 430 | 1.66 | 1.29 | 23.5 |

## F66 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:26:08

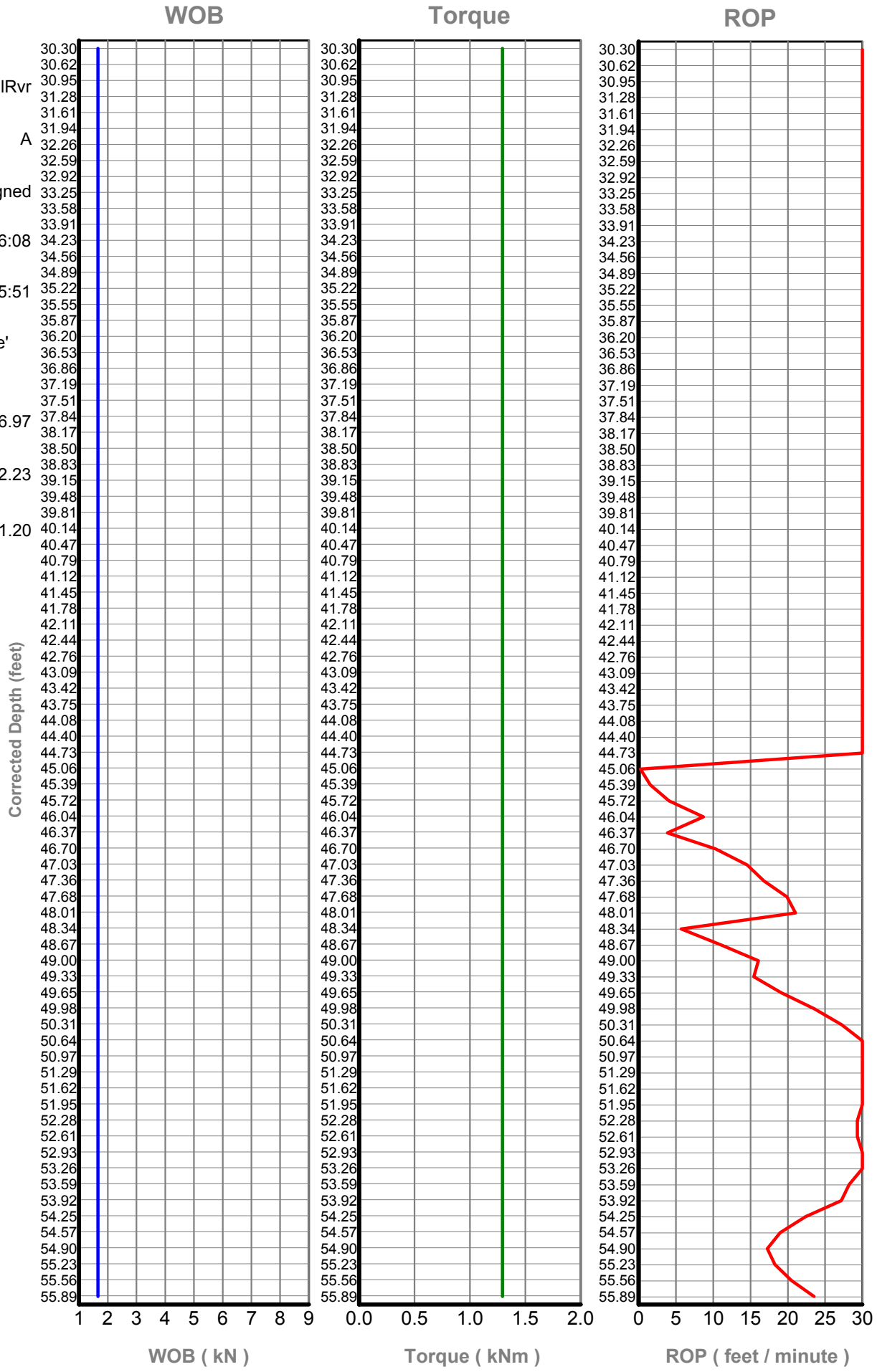
**End Date:**
4/22/2015 10:35:51

**Operator Note:**
'1.2 1.3 b Auto Complete'

**Northing:**
367,906.97

**Easting:**
252,422.23

**Tide (feet):**
1.20



## Hole: F67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:24:02 | 31.50 | 30.20 | 306 | 1.21 | 0.28 | 16.8 |
| 4/22/2015 10:24:04 | 31.82 | 30.52 | 305 | 1.19 | 0.28 | 16.7 |
| 4/22/2015 10:24:05 | 32.15 | 30.85 | 299 | 1.21 | 0.28 | 16.3 |
| 4/22/2015 10:24:06 | 32.48 | 31.18 | 300 | 1.21 | 0.28 | 16.4 |
| 4/22/2015 10:24:07 | 32.81 | 31.51 | 304 | 1.20 | 0.28 | 16.6 |
| 4/22/2015 10:24:08 | 33.14 | 31.84 | 308 | 1.20 | 0.28 | 16.8 |
| 4/22/2015 10:24:09 | 33.46 | 32.16 | 301 | 1.21 | 0.28 | 16.5 |
| 4/22/2015 10:24:10 | 33.79 | 32.49 | 301 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:12 | 34.12 | 32.82 | 301 | 1.19 | 0.28 | 16.5 |
| 4/22/2015 10:24:13 | 34.45 | 33.15 | 305 | 1.19 | 0.28 | 16.7 |
| 4/22/2015 10:24:14 | 34.78 | 33.48 | 296 | 1.21 | 0.28 | 16.2 |
| 4/22/2015 10:24:15 | 35.11 | 33.81 | 297 | 1.20 | 0.28 | 16.2 |
| 4/22/2015 10:24:17 | 35.43 | 34.13 | 294 | 1.21 | 0.28 | 16.1 |
| 4/22/2015 10:24:18 | 35.76 | 34.46 | 298 | 1.21 | 0.28 | 16.3 |
| 4/22/2015 10:24:19 | 36.09 | 34.79 | 298 | 1.19 | 0.28 | 16.3 |
| 4/22/2015 10:24:20 | 36.42 | 35.12 | 301 | 1.17 | 0.28 | 16.5 |
| 4/22/2015 10:24:21 | 36.75 | 35.45 | 303 | 1.19 | 0.28 | 16.6 |
| 4/22/2015 10:24:22 | 37.07 | 35.77 | 299 | 1.19 | 0.28 | 16.3 |
| 4/22/2015 10:24:23 | 37.40 | 36.10 | 301 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:25 | 37.73 | 36.43 | 299 | 1.21 | 0.28 | 16.4 |
| 4/22/2015 10:24:26 | 38.06 | 36.76 | 300 | 1.23 | 0.28 | 16.4 |
| 4/22/2015 10:24:27 | 38.39 | 37.09 | 302 | 1.21 | 0.28 | 16.5 |
| 4/22/2015 10:24:28 | 38.71 | 37.41 | 301 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:30 | 39.04 | 37.74 | 303 | 1.22 | 0.28 | 16.6 |
| 4/22/2015 10:24:31 | 39.37 | 38.07 | 294 | 1.20 | 0.28 | 16.1 |
| 4/22/2015 10:24:32 | 39.70 | 38.40 | 304 | 1.20 | 0.28 | 16.6 |
| 4/22/2015 10:24:33 | 40.03 | 38.73 | 305 | 1.19 | 0.28 | 16.7 |
| 4/22/2015 10:24:34 | 40.35 | 39.05 | 299 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:36 | 40.68 | 39.38 | 298 | 1.20 | 0.28 | 16.3 |
| 4/22/2015 10:24:37 | 41.01 | 39.71 | 299 | 1.07 | 0.29 | 16.3 |
| 4/22/2015 10:24:38 | 41.34 | 40.04 | 305 | 1.18 | 0.28 | 16.7 |
| 4/22/2015 10:24:39 | 41.67 | 40.37 | 302 | 1.17 | 0.28 | 16.5 |
| 4/22/2015 10:24:40 | 41.99 | 40.69 | 305 | 1.23 | 0.28 | 16.7 |
| 4/22/2015 10:24:41 | 42.32 | 41.02 | 298 | 1.24 | 0.28 | 16.3 |
| 4/22/2015 10:24:43 | 42.65 | 41.35 | 299 | 1.20 | 0.28 | 16.3 |
| 4/22/2015 10:24:44 | 42.98 | 41.68 | 299 | 1.22 | 0.28 | 16.4 |
| 4/22/2015 10:24:45 | 43.31 | 42.01 | 301 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:47 | 43.64 | 42.34 | 304 | 1.19 | 0.28 | 16.6 |
| 4/22/2015 10:24:48 | 43.96 | 42.66 | 301 | 1.22 | 0.28 | 16.4 |
| 4/22/2015 10:24:49 | 44.29 | 42.99 | 301 | 1.20 | 0.28 | 16.4 |
| 4/22/2015 10:24:50 | 44.62 | 43.32 | 301 | 1.17 | 0.28 | 16.4 |
| 4/22/2015 10:24:51 | 44.95 | 43.65 | 301 | 1.19 | 0.28 | 16.4 |
| 4/22/2015 10:24:52 | 45.28 | 43.98 | 299 | 1.21 | 0.28 | 16.3 |
| 4/22/2015 10:24:53 | 45.60 | 44.30 | 294 | 1.19 | 0.28 | 16.1 |
| 4/22/2015 10:24:55 | 45.93 | 44.63 | 298 | 1.17 | 0.28 | 16.3 |
| 4/22/2015 10:24:56 | 46.26 | 44.96 | 290 | 1.51 | 0.28 | 15.8 |
| 4/22/2015 10:25:11 | 46.59 | 45.29 | 120 | 1.42 | 1.04 | 6.5 |
| 4/22/2015 10:25:12 | 46.92 | 45.62 | 216 | 1.32 | 0.88 | 11.8 |
| 4/22/2015 10:25:13 | 47.24 | 45.94 | 237 | 1.30 | 0.89 | 12.9 |
| 4/22/2015 10:25:15 | 47.57 | 46.27 | 246 | 1.34 | 0.95 | 13.4 |
| 4/22/2015 10:25:16 | 47.90 | 46.60 | 246 | 1.32 | 0.88 | 13.4 |
| 4/22/2015 10:25:18 | 48.23 | 46.93 | 249 | 1.32 | 0.98 | 13.6 |
| 4/22/2015 10:25:20 | 48.56 | 47.26 | 241 | 1.32 | 0.95 | 13.2 |
| 4/22/2015 10:25:21 | 48.88 | 47.58 | 246 | 1.34 | 0.96 | 13.4 |
| 4/22/2015 10:25:22 | 49.21 | 47.91 | 252 | 1.30 | 0.92 | 13.8 |
| 4/22/2015 10:25:24 | 49.54 | 48.24 | 250 | 1.32 | 0.92 | 13.7 |
| 4/22/2015 10:25:25 | 49.87 | 48.57 | 249 | 1.32 | 0.91 | 13.6 |
| 4/22/2015 10:25:26 | 50.20 | 48.90 | 253 | 1.33 | 0.90 | 13.8 |
| 4/22/2015 10:25:36 | 50.53 | 49.23 | 11 | 1.39 | 0.94 | 0.6 |
| 4/22/2015 10:25:37 | 50.85 | 49.55 | 113 | 1.40 | 0.88 | 6.2 |
| 4/22/2015 10:25:40 | 51.18 | 49.88 | 226 | 1.39 | 1.01 | 12.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:25:41 | 51.51 | 50.21 | 225 | 1.42 | 0.86 | 12.3 |
| 4/22/2015 | 10:25:42 | 51.84 | 50.54 | 249 | 1.40 | 0.83 | 13.6 |
| 4/22/2015 | 10:25:44 | 52.17 | 50.87 | 249 | 1.42 | 0.88 | 13.6 |
| 4/22/2015 | 10:25:45 | 52.49 | 51.19 | 252 | 1.39 | 0.95 | 13.8 |
| 4/22/2015 | 10:25:46 | 52.82 | 51.52 | 255 | 1.42 | 0.96 | 13.9 |
| 4/22/2015 | 10:25:48 | 53.15 | 51.85 | 249 | 1.46 | 1.09 | 13.6 |
| 4/22/2015 | 10:25:50 | 53.48 | 52.18 | 244 | 1.45 | 1.04 | 13.4 |
| 4/22/2015 | 10:25:51 | 53.81 | 52.51 | 239 | 1.40 | 1.05 | 13.1 |
| 4/22/2015 | 10:25:52 | 54.13 | 52.83 | 263 | 1.40 | 1.11 | 14.4 |
| 4/22/2015 | 10:25:54 | 54.46 | 53.16 | 261 | 1.39 | 1.09 | 14.3 |
| 4/22/2015 | 10:25:55 | 54.79 | 53.49 | 227 | 1.40 | 1.10 | 12.4 |
| 4/22/2015 | 10:25:57 | 55.12 | 53.82 | 223 | 1.42 | 1.03 | 12.2 |
| 4/22/2015 | 10:25:58 | 55.45 | 54.15 | 217 | 1.14 | 0.98 | 11.9 |
| 4/22/2015 | 10:26:00 | 55.77 | 54.47 | 231 | 1.47 | 1.23 | 12.6 |
| 4/22/2015 | 10:26:02 | 56.10 | 54.80 | 227 | 1.46 | 0.96 | 12.4 |
| 4/22/2015 | 10:26:07 | 56.34 | 55.04 | 5 | 1.50 | 1.07 | 0.3 |

## F67 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:20:57

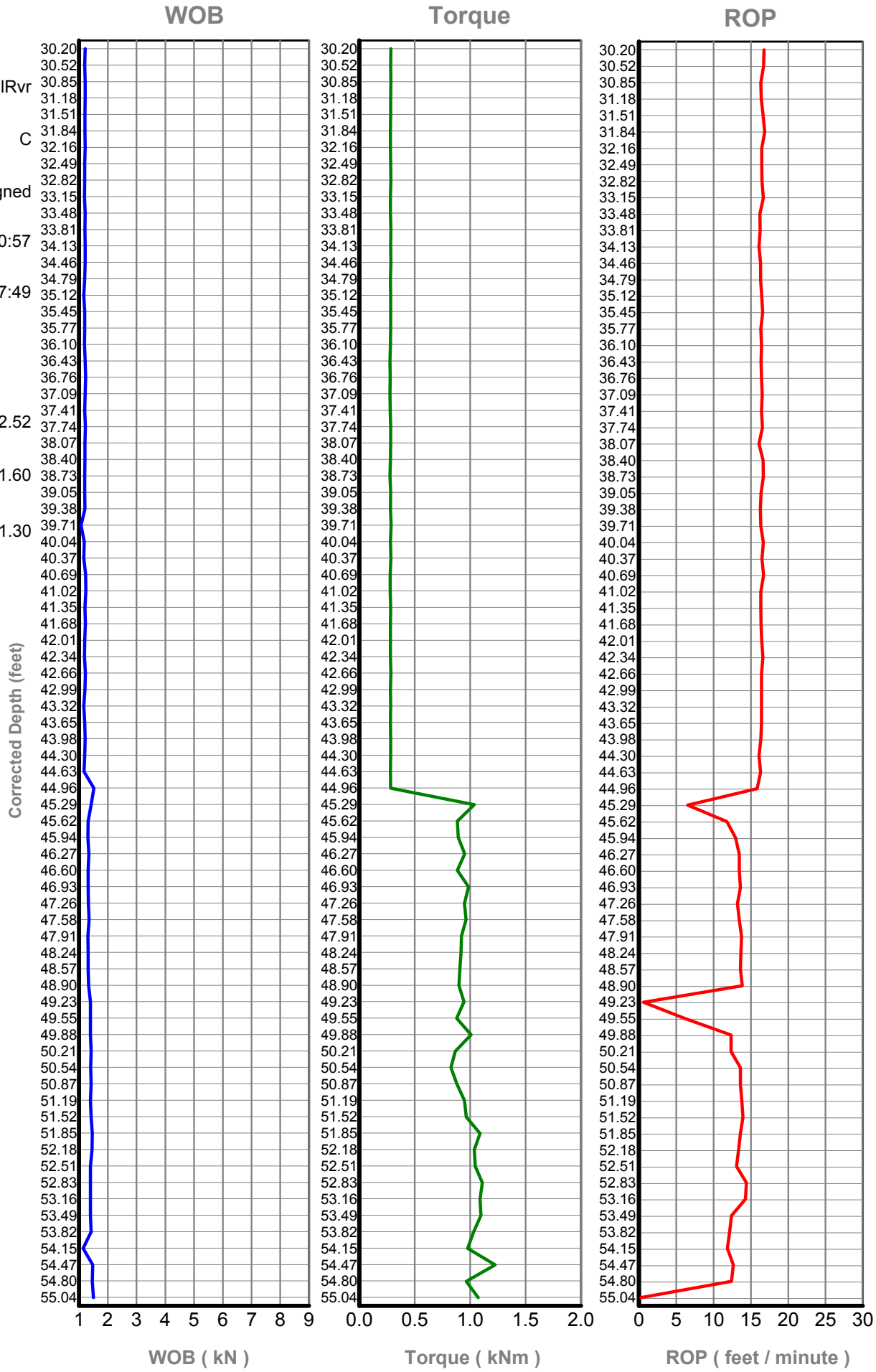
**End Date:**
4/22/2015 10:27:49

**Operator Note:**
'1.3 1.3 c Auto Complete'

**Northing:**
367,952.52

**Easting:**
252,481.60

**Tide (feet):**
1.30



## Hole: F68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:20:48 | 36.42 | 30.32 | 884 | 0.29 | 0.36 | 48.3 |
| 4/23/2015 4:20:49 | 36.75 | 30.65 | 876 | 0.29 | 0.36 | 47.9 |
| 4/23/2015 4:20:49 | 37.07 | 30.97 | 868 | 0.29 | 0.36 | 47.4 |
| 4/23/2015 4:20:50 | 37.40 | 31.30 | 876 | 0.28 | 0.36 | 47.9 |
| 4/23/2015 4:20:50 | 37.73 | 31.63 | 876 | 0.28 | 0.36 | 47.9 |
| 4/23/2015 4:20:50 | 38.06 | 31.96 | 873 | 0.28 | 0.36 | 47.7 |
| 4/23/2015 4:20:51 | 38.39 | 32.29 | 876 | 0.29 | 0.36 | 47.9 |
| 4/23/2015 4:20:51 | 38.71 | 32.61 | 874 | 0.29 | 0.36 | 47.8 |
| 4/23/2015 4:20:52 | 39.04 | 32.94 | 874 | 0.29 | 0.36 | 47.8 |
| 4/23/2015 4:20:52 | 39.37 | 33.27 | 885 | 0.29 | 0.36 | 48.4 |
| 4/23/2015 4:20:52 | 39.70 | 33.60 | 885 | 0.28 | 0.36 | 48.4 |
| 4/23/2015 4:20:53 | 40.03 | 33.93 | 885 | 0.28 | 0.36 | 48.4 |
| 4/23/2015 4:20:53 | 40.35 | 34.25 | 883 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:54 | 40.68 | 34.58 | 883 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:54 | 41.01 | 34.91 | 884 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:54 | 41.34 | 35.24 | 884 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:55 | 41.67 | 35.57 | 883 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:56 | 41.99 | 35.89 | 883 | 0.28 | 0.36 | 48.3 |
| 4/23/2015 4:20:56 | 42.32 | 36.22 | 875 | 0.28 | 0.36 | 47.8 |
| 4/23/2015 4:20:56 | 42.65 | 36.55 | 878 | 0.20 | 0.33 | 48.0 |
| 4/23/2015 4:20:57 | 42.98 | 36.88 | 880 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:20:57 | 43.31 | 37.21 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:20:58 | 43.64 | 37.54 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:20:58 | 43.96 | 37.86 | 885 | 0.21 | 0.33 | 48.4 |
| 4/23/2015 4:20:58 | 44.29 | 38.19 | 887 | 0.21 | 0.33 | 48.5 |
| 4/23/2015 4:20:59 | 44.62 | 38.52 | 866 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 4:20:59 | 44.95 | 38.85 | 866 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 4:20:59 | 45.28 | 39.18 | 866 | 0.21 | 0.33 | 47.4 |
| 4/23/2015 4:21:00 | 45.60 | 39.50 | 866 | 0.22 | 0.33 | 47.4 |
| 4/23/2015 4:21:00 | 45.93 | 39.83 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:21:01 | 46.26 | 40.16 | 873 | 0.20 | 0.32 | 47.7 |
| 4/23/2015 4:21:01 | 46.59 | 40.49 | 873 | 0.20 | 0.32 | 47.7 |
| 4/23/2015 4:21:01 | 46.92 | 40.82 | 871 | 0.20 | 0.32 | 47.6 |
| 4/23/2015 4:21:02 | 47.24 | 41.14 | 886 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 4:21:02 | 47.57 | 41.47 | 889 | 0.20 | 0.33 | 48.6 |
| 4/23/2015 4:21:03 | 47.90 | 41.80 | 889 | 0.20 | 0.33 | 48.6 |
| 4/23/2015 4:21:03 | 48.23 | 42.13 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:21:03 | 48.56 | 42.46 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:21:04 | 48.88 | 42.78 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:21:04 | 49.21 | 43.11 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:21:05 | 49.54 | 43.44 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 4:21:05 | 49.87 | 43.77 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 4:21:06 | 50.20 | 44.10 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 4:21:06 | 50.53 | 44.43 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:21:07 | 50.85 | 44.75 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:21:07 | 51.18 | 45.08 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:21:07 | 51.51 | 45.41 | 879 | 0.14 | 0.32 | 48.1 |
| 4/23/2015 4:21:08 | 51.84 | 45.74 | 879 | 0.14 | 0.32 | 48.1 |
| 4/23/2015 4:21:08 | 52.17 | 46.07 | 881 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:21:09 | 52.49 | 46.39 | 881 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:21:09 | 52.82 | 46.72 | 883 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 4:21:09 | 53.15 | 47.05 | 872 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 4:21:10 | 53.48 | 47.38 | 872 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 4:21:10 | 53.81 | 47.71 | 872 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 4:21:10 | 54.13 | 48.03 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 4:21:11 | 54.46 | 48.36 | 870 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 4:21:11 | 54.79 | 48.69 | 871 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 4:21:12 | 55.12 | 49.02 | 860 | 0.21 | 0.35 | 47.0 |
| 4/23/2015 4:21:12 | 55.45 | 49.35 | 846 | 0.19 | 0.37 | 46.2 |
| 4/23/2015 4:21:25 | 55.77 | 49.67 | 0 | 4.11 | 0.38 | 0.0 |
| 4/23/2015 4:21:27 | 56.10 | 50.00 | 140 | 4.47 | 0.37 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:21:28 | 56.43 | 50.33 | 236 | 2.47 | 0.34 | 12.9 |
| 4/23/2015 | 4:21:28 | 56.76 | 50.66 | 303 | 2.50 | 0.34 | 16.5 |
| 4/23/2015 | 4:21:29 | 57.09 | 50.99 | 400 | 2.71 | 0.35 | 21.9 |
| 4/23/2015 | 4:21:29 | 57.41 | 51.31 | 497 | 2.52 | 0.35 | 27.2 |
| 4/23/2015 | 4:21:30 | 57.74 | 51.64 | 589 | 2.57 | 0.35 | 32.2 |
| 4/23/2015 | 4:21:30 | 58.07 | 51.97 | 668 | 2.52 | 0.35 | 36.5 |
| 4/23/2015 | 4:21:31 | 58.40 | 52.30 | 668 | 2.58 | 0.35 | 36.5 |
| 4/23/2015 | 4:21:31 | 58.73 | 52.63 | 666 | 2.59 | 0.35 | 36.4 |
| 4/23/2015 | 4:21:32 | 59.06 | 52.96 | 662 | 2.57 | 0.34 | 36.2 |
| 4/23/2015 | 4:21:32 | 59.38 | 53.28 | 662 | 2.61 | 0.35 | 36.2 |
| 4/23/2015 | 4:21:33 | 59.71 | 53.61 | 644 | 2.61 | 0.35 | 35.2 |
| 4/23/2015 | 4:21:33 | 60.04 | 53.94 | 644 | 2.65 | 0.35 | 35.2 |
| 4/23/2015 | 4:21:34 | 60.37 | 54.27 | 658 | 3.10 | 0.35 | 36.0 |
| 4/23/2015 | 4:21:34 | 60.70 | 54.60 | 641 | 3.57 | 0.35 | 35.1 |
| 4/23/2015 | 4:21:35 | 61.02 | 54.92 | 638 | 2.49 | 0.35 | 34.9 |
| 4/23/2015 | 4:21:36 | 61.35 | 55.25 | 643 | 2.44 | 0.35 | 35.2 |
| 4/23/2015 | 4:21:36 | 61.52 | 55.42 | 643 | 2.44 | 0.35 | 35.2 |

## F68 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:17:20

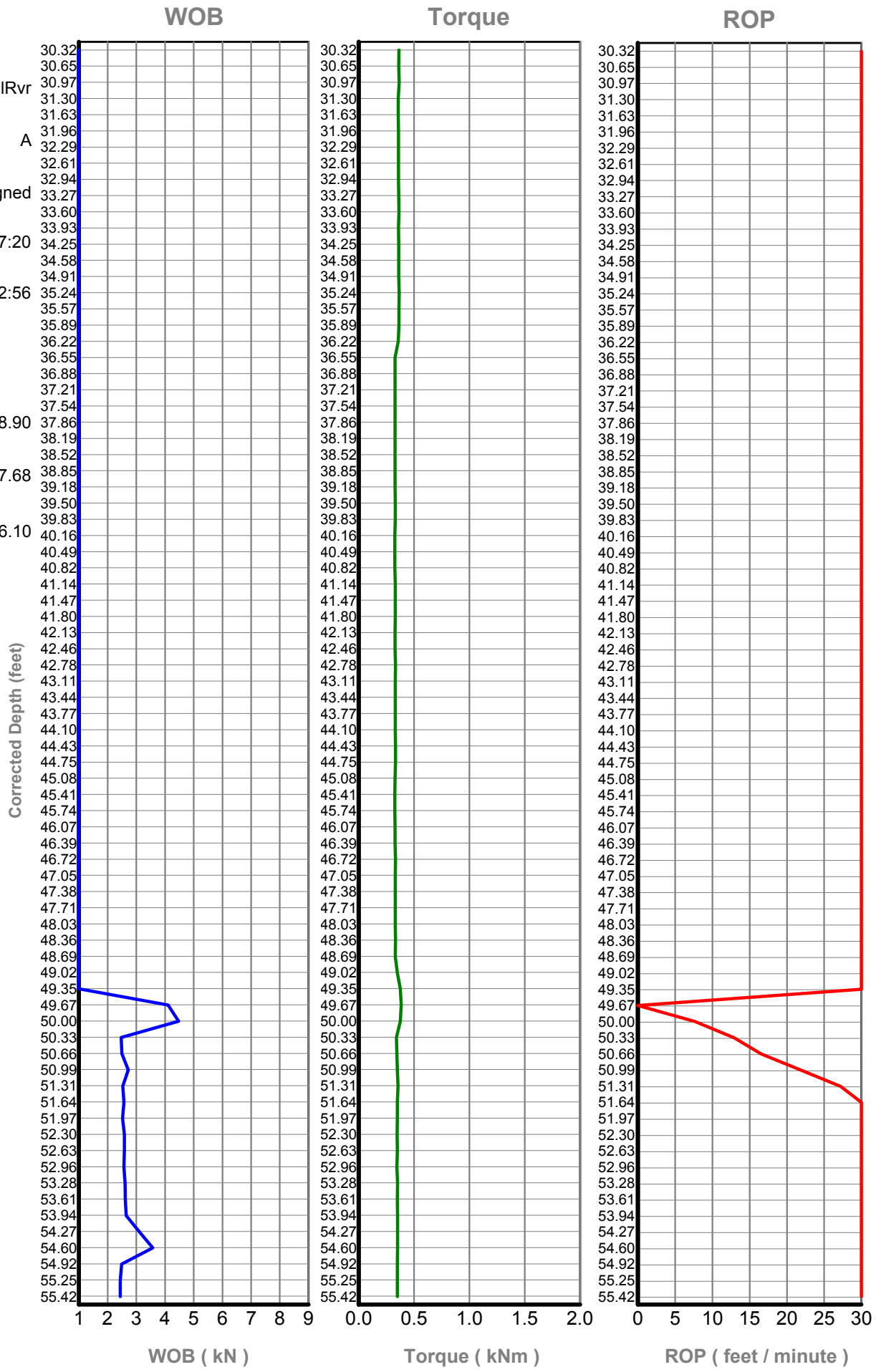
**End Date:**
4/23/2015 4:22:56

**Operator Note:**
'6.1 6 b Auto Complete'

**Northing:**
367,388.90

**Easting:**
251,907.68

**Tide (feet):**
6.10



## Hole: F69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:26:42 | 36.42 | 30.32 | 860 | 0.29 | 0.36 | 47.0 |
| 4/23/2015 4:26:43 | 36.75 | 30.65 | 860 | 0.29 | 0.36 | 47.0 |
| 4/23/2015 4:26:43 | 37.07 | 30.97 | 866 | 0.27 | 0.36 | 47.4 |
| 4/23/2015 4:26:43 | 37.40 | 31.30 | 877 | 0.27 | 0.36 | 48.0 |
| 4/23/2015 4:26:44 | 37.73 | 31.63 | 870 | 0.27 | 0.36 | 47.6 |
| 4/23/2015 4:26:44 | 38.06 | 31.96 | 870 | 0.27 | 0.36 | 47.6 |
| 4/23/2015 4:26:44 | 38.39 | 32.29 | 873 | 0.29 | 0.36 | 47.7 |
| 4/23/2015 4:26:45 | 38.71 | 32.61 | 887 | 0.26 | 0.36 | 48.5 |
| 4/23/2015 4:26:45 | 39.04 | 32.94 | 882 | 0.26 | 0.33 | 48.2 |
| 4/23/2015 4:26:46 | 39.37 | 33.27 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 4:26:46 | 39.70 | 33.60 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 4:26:46 | 40.03 | 33.93 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 4:26:47 | 40.35 | 34.25 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 4:26:47 | 40.68 | 34.58 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:26:48 | 41.01 | 34.91 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:26:48 | 41.34 | 35.24 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:26:48 | 41.67 | 35.57 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 4:26:49 | 41.99 | 35.89 | 881 | 0.20 | 0.32 | 48.2 |
| 4/23/2015 4:26:50 | 42.32 | 36.22 | 870 | 0.20 | 0.34 | 47.6 |
| 4/23/2015 4:26:50 | 42.65 | 36.55 | 870 | 0.20 | 0.34 | 47.6 |
| 4/23/2015 4:26:50 | 42.98 | 36.88 | 870 | 0.06 | 0.32 | 47.6 |
| 4/23/2015 4:26:51 | 43.31 | 37.21 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 4:26:51 | 43.64 | 37.54 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:26:52 | 43.96 | 37.86 | 879 | 0.20 | 0.32 | 48.1 |
| 4/23/2015 4:26:52 | 44.29 | 38.19 | 879 | 0.20 | 0.32 | 48.1 |
| 4/23/2015 4:26:52 | 44.62 | 38.52 | 882 | 0.20 | 0.32 | 48.2 |
| 4/23/2015 4:26:53 | 44.95 | 38.85 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 4:26:53 | 45.28 | 39.18 | 885 | 0.22 | 0.33 | 48.4 |
| 4/23/2015 4:26:54 | 45.60 | 39.50 | 885 | 0.22 | 0.33 | 48.4 |
| 4/23/2015 4:26:54 | 45.93 | 39.83 | 882 | 0.20 | 0.33 | 48.2 |
| 4/23/2015 4:26:54 | 46.26 | 40.16 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:26:55 | 46.59 | 40.49 | 879 | 0.22 | 0.33 | 48.1 |
| 4/23/2015 4:26:55 | 46.92 | 40.82 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:26:56 | 47.24 | 41.14 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:26:56 | 47.57 | 41.47 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 4:26:56 | 47.90 | 41.80 | 854 | 0.21 | 0.33 | 46.7 |
| 4/23/2015 4:26:57 | 48.23 | 42.13 | 854 | 0.20 | 0.32 | 46.7 |
| 4/23/2015 4:26:57 | 48.56 | 42.46 | 854 | 0.20 | 0.32 | 46.7 |
| 4/23/2015 4:26:57 | 48.88 | 42.78 | 868 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 4:26:58 | 49.21 | 43.11 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:26:58 | 49.54 | 43.44 | 859 | 0.20 | 0.32 | 47.0 |
| 4/23/2015 4:26:59 | 49.87 | 43.77 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 4:27:00 | 50.20 | 44.10 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 4:26:59 | 50.53 | 44.43 | 866 | 0.21 | 0.32 | 47.3 |
| 4/23/2015 4:27:00 | 50.85 | 44.75 | 893 | 0.20 | 0.33 | 48.8 |
| 4/23/2015 4:27:01 | 51.18 | 45.08 | 879 | 0.31 | 0.33 | 48.1 |
| 4/23/2015 4:27:01 | 51.51 | 45.41 | 879 | 0.31 | 0.33 | 48.1 |
| 4/23/2015 4:27:01 | 51.84 | 45.74 | 875 | 0.20 | 0.33 | 47.8 |
| 4/23/2015 4:27:02 | 52.17 | 46.07 | 894 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 4:27:02 | 52.49 | 46.39 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 4:27:03 | 52.82 | 46.72 | 879 | 0.26 | 0.33 | 48.1 |
| 4/23/2015 4:27:03 | 53.15 | 47.05 | 879 | 0.26 | 0.33 | 48.1 |
| 4/23/2015 4:27:03 | 53.48 | 47.38 | 876 | 0.21 | 0.33 | 47.9 |
| 4/23/2015 4:27:04 | 53.81 | 47.71 | 879 | 0.20 | 0.32 | 48.1 |
| 4/23/2015 4:27:04 | 54.13 | 48.03 | 863 | 0.21 | 0.33 | 47.2 |
| 4/23/2015 4:27:05 | 54.46 | 48.36 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:27:05 | 54.79 | 48.69 | 871 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 4:27:05 | 55.12 | 49.02 | 858 | 0.20 | 0.33 | 46.9 |
| 4/23/2015 4:27:06 | 55.45 | 49.35 | 861 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 4:27:06 | 55.77 | 49.67 | 865 | 0.20 | 0.34 | 47.3 |
| 4/23/2015 4:27:07 | 56.10 | 50.00 | 837 | 0.20 | 0.34 | 45.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:27:07 | 56.43 | 50.33 | 837 | 0.20 | 0.34 | 45.8 |
| 4/23/2015 | 4:27:07 | 56.76 | 50.66 | 837 | 0.20 | 0.34 | 45.8 |
| 4/23/2015 | 4:27:08 | 57.09 | 50.99 | 815 | 0.20 | 0.34 | 44.6 |
| 4/23/2015 | 4:27:08 | 57.41 | 51.31 | 790 | 0.20 | 0.34 | 43.2 |
| 4/23/2015 | 4:27:09 | 57.74 | 51.64 | 767 | 0.20 | 0.26 | 42.0 |
| 4/23/2015 | 4:27:09 | 58.07 | 51.97 | 716 | 0.20 | 0.34 | 39.2 |
| 4/23/2015 | 4:27:10 | 58.40 | 52.30 | 716 | 0.20 | 0.34 | 39.2 |
| 4/23/2015 | 4:27:11 | 58.73 | 52.63 | 729 | 0.20 | 0.34 | 39.9 |
| 4/23/2015 | 4:27:11 | 59.06 | 52.96 | 698 | 0.20 | 0.35 | 38.2 |
| 4/23/2015 | 4:27:12 | 59.38 | 53.28 | 695 | 0.20 | 0.34 | 38.0 |
| 4/23/2015 | 4:27:12 | 59.71 | 53.61 | 666 | 0.20 | 0.35 | 36.4 |
| 4/23/2015 | 4:27:13 | 60.04 | 53.94 | 677 | 0.20 | 0.35 | 37.0 |
| 4/23/2015 | 4:27:13 | 60.37 | 54.27 | 677 | 0.20 | 0.35 | 37.0 |
| 4/23/2015 | 4:27:14 | 60.70 | 54.60 | 666 | 0.20 | 0.35 | 36.4 |
| 4/23/2015 | 4:27:15 | 61.02 | 54.92 | 645 | 0.20 | 0.35 | 35.3 |
| 4/23/2015 | 4:27:15 | 61.35 | 55.25 | 619 | 0.20 | 0.35 | 33.9 |
| 4/23/2015 | 4:27:16 | 61.68 | 55.58 | 619 | 0.19 | 0.35 | 33.9 |
| 4/23/2015 | 4:27:16 | 61.73 | 55.63 | 619 | 0.19 | 0.35 | 33.9 |

## F69 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:24:43

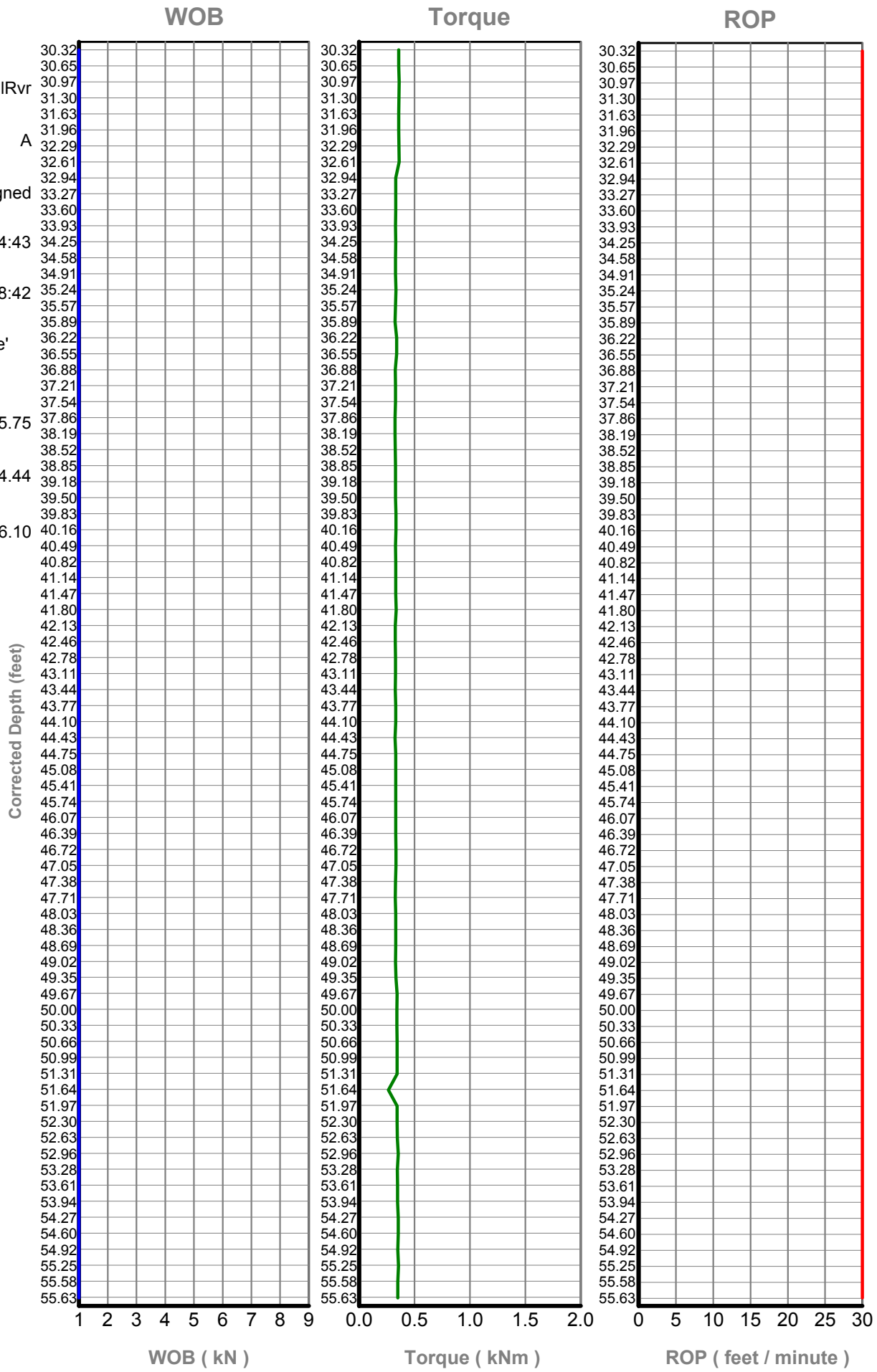
**End Date:**
4/23/2015 4:28:42

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,425.75

**Easting:**
251,954.44

**Tide (feet):**
6.10



## Hole: F7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 0:35:44 | 31.82 | 30.02 | 434 | 1.70 | 0.16 | 23.7 |
| 4/23/2015 0:35:45 | 32.15 | 30.35 | 427 | 1.66 | 0.17 | 23.3 |
| 4/23/2015 0:35:46 | 32.48 | 30.68 | 428 | 1.70 | 0.16 | 23.4 |
| 4/23/2015 0:35:47 | 32.81 | 31.01 | 423 | 1.70 | 0.16 | 23.1 |
| 4/23/2015 0:35:47 | 33.14 | 31.34 | 424 | 1.69 | 0.16 | 23.2 |
| 4/23/2015 0:35:48 | 33.46 | 31.66 | 434 | 1.68 | 0.16 | 23.7 |
| 4/23/2015 0:35:49 | 33.79 | 31.99 | 433 | 1.69 | 0.16 | 23.7 |
| 4/23/2015 0:35:50 | 34.12 | 32.32 | 431 | 1.70 | 0.16 | 23.6 |
| 4/23/2015 0:35:51 | 34.45 | 32.65 | 431 | 1.68 | 0.16 | 23.6 |
| 4/23/2015 0:35:52 | 34.78 | 32.98 | 431 | 1.69 | 0.16 | 23.6 |
| 4/23/2015 0:35:53 | 35.11 | 33.31 | 434 | 1.70 | 0.16 | 23.7 |
| 4/23/2015 0:35:53 | 35.43 | 33.63 | 434 | 1.69 | 0.16 | 23.7 |
| 4/23/2015 0:35:54 | 35.76 | 33.96 | 431 | 1.70 | 0.16 | 23.6 |
| 4/23/2015 0:35:55 | 36.09 | 34.29 | 426 | 1.68 | 0.16 | 23.3 |
| 4/23/2015 0:35:56 | 36.42 | 34.62 | 429 | 1.69 | 0.16 | 23.4 |
| 4/23/2015 0:35:57 | 36.75 | 34.95 | 425 | 1.69 | 0.16 | 23.3 |
| 4/23/2015 0:35:57 | 37.07 | 35.27 | 433 | 1.70 | 0.16 | 23.7 |
| 4/23/2015 0:35:58 | 37.40 | 35.60 | 431 | 1.68 | 0.16 | 23.6 |
| 4/23/2015 0:35:59 | 37.73 | 35.93 | 431 | 1.67 | 0.16 | 23.6 |
| 4/23/2015 0:36:00 | 38.06 | 36.26 | 431 | 1.69 | 0.16 | 23.6 |
| 4/23/2015 0:36:01 | 38.39 | 36.59 | 428 | 1.70 | 0.16 | 23.4 |
| 4/23/2015 0:36:01 | 38.71 | 36.91 | 431 | 1.70 | 0.16 | 23.5 |
| 4/23/2015 0:36:03 | 39.04 | 37.24 | 431 | 1.69 | 0.16 | 23.6 |
| 4/23/2015 0:36:03 | 39.37 | 37.57 | 428 | 1.68 | 0.16 | 23.4 |
| 4/23/2015 0:36:04 | 39.70 | 37.90 | 428 | 1.70 | 0.16 | 23.4 |
| 4/23/2015 0:36:05 | 40.03 | 38.23 | 425 | 1.68 | 0.16 | 23.3 |
| 4/23/2015 0:36:06 | 40.35 | 38.55 | 434 | 1.68 | 0.16 | 23.7 |
| 4/23/2015 0:36:07 | 40.68 | 38.88 | 424 | 1.68 | 0.16 | 23.2 |
| 4/23/2015 0:36:07 | 41.01 | 39.21 | 423 | 1.70 | 0.16 | 23.1 |
| 4/23/2015 0:36:08 | 41.34 | 39.54 | 433 | 1.69 | 0.16 | 23.7 |
| 4/23/2015 0:36:09 | 41.67 | 39.87 | 418 | 1.70 | 0.18 | 22.9 |
| 4/23/2015 0:36:10 | 41.99 | 40.19 | 433 | 1.70 | 0.17 | 23.7 |
| 4/23/2015 0:36:11 | 42.32 | 40.52 | 426 | 1.69 | 0.16 | 23.3 |
| 4/23/2015 0:36:11 | 42.65 | 40.85 | 421 | 1.68 | 0.16 | 23.0 |
| 4/23/2015 0:36:13 | 42.98 | 41.18 | 425 | 1.69 | 0.16 | 23.2 |
| 4/23/2015 0:36:14 | 43.31 | 41.51 | 422 | 1.68 | 0.16 | 23.1 |
| 4/23/2015 0:36:14 | 43.64 | 41.84 | 428 | 1.68 | 0.16 | 23.4 |
| 4/23/2015 0:36:15 | 43.96 | 42.16 | 428 | 1.70 | 0.16 | 23.4 |
| 4/23/2015 0:36:16 | 44.29 | 42.49 | 425 | 1.68 | 0.16 | 23.2 |
| 4/23/2015 0:36:17 | 44.62 | 42.82 | 428 | 1.70 | 0.16 | 23.4 |
| 4/23/2015 0:36:18 | 44.95 | 43.15 | 428 | 1.68 | 0.16 | 23.4 |
| 4/23/2015 0:36:18 | 45.28 | 43.48 | 431 | 1.69 | 0.16 | 23.6 |
| 4/23/2015 0:36:19 | 45.60 | 43.80 | 425 | 1.69 | 0.16 | 23.3 |
| 4/23/2015 0:36:20 | 45.93 | 44.13 | 431 | 1.73 | 0.16 | 23.5 |
| 4/23/2015 0:36:21 | 46.26 | 44.46 | 425 | 1.70 | 0.16 | 23.2 |
| 4/23/2015 0:37:11 | 46.59 | 44.79 | 31 | 1.70 | 1.17 | 1.7 |
| 4/23/2015 0:37:26 | 46.92 | 45.12 | 23 | 1.69 | 1.23 | 1.3 |
| 4/23/2015 0:37:50 | 47.24 | 45.44 | 0 | 1.68 | 1.05 | 0.0 |
| 4/23/2015 0:38:01 | 47.57 | 45.77 | 29 | 1.66 | 1.09 | 1.6 |
| 4/23/2015 0:38:13 | 47.90 | 46.10 | 0 | 1.70 | 1.30 | 0.0 |
| 4/23/2015 0:38:20 | 48.23 | 46.43 | 107 | 1.70 | 1.26 | 5.9 |
| 4/23/2015 0:38:33 | 48.56 | 46.76 | 30 | 1.72 | 1.06 | 1.6 |
| 4/23/2015 0:38:34 | 48.88 | 47.08 | 111 | 1.68 | 1.17 | 6.0 |
| 4/23/2015 0:38:42 | 49.21 | 47.41 | 59 | 1.68 | 1.05 | 3.2 |
| 4/23/2015 0:38:43 | 49.54 | 47.74 | 127 | 1.67 | 1.05 | 6.9 |
| 4/23/2015 0:39:05 | 49.87 | 48.07 | 0 | 1.69 | 0.98 | 0.0 |
| 4/23/2015 0:39:06 | 50.20 | 48.40 | 126 | 1.69 | 1.03 | 6.9 |
| 4/23/2015 0:39:07 | 50.53 | 48.73 | 255 | 1.72 | 1.10 | 14.0 |
| 4/23/2015 0:39:12 | 50.85 | 49.05 | 69 | 1.67 | 1.13 | 3.8 |
| 4/23/2015 0:39:14 | 51.18 | 49.38 | 201 | 1.70 | 1.28 | 11.0 |
| 4/23/2015 0:39:18 | 51.51 | 49.71 | 75 | 1.70 | 1.13 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 0:39:24 | 51.84 | 50.04 | 56 | 1.69 | 1.15 | 3.1 |
| 4/23/2015 | 0:39:30 | 52.17 | 50.37 | 60 | 1.69 | 1.10 | 3.3 |
| 4/23/2015 | 0:39:38 | 52.49 | 50.69 | 39 | 1.70 | 1.18 | 2.1 |

## F7 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 0:33:39

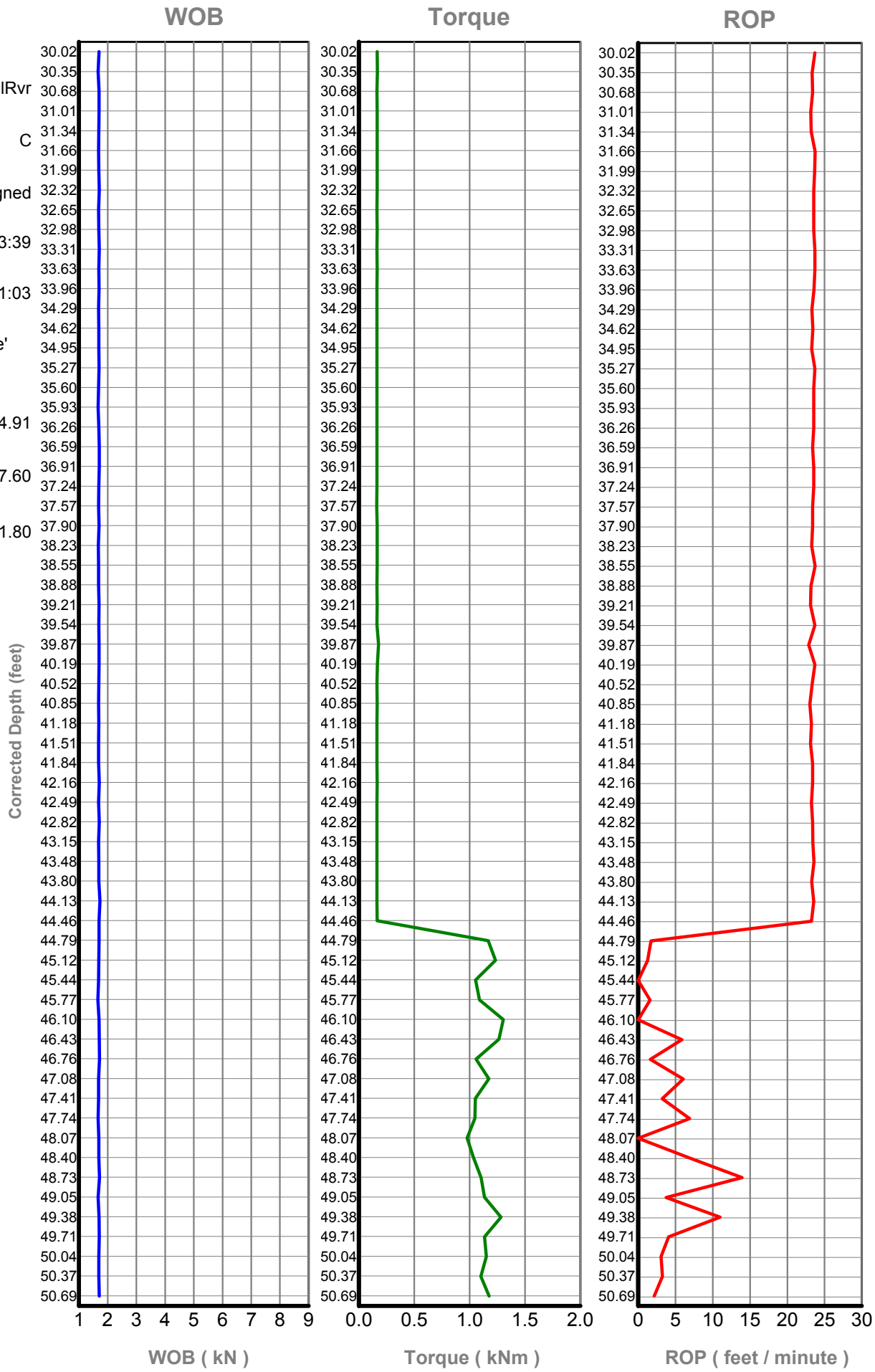
**End Date:**
4/23/2015 0:41:03

**Operator Note:**
'1.8 1.3 c Auto Complete'

**Northing:**
367,904.91

**Easting:**
251,947.60

**Tide (feet):**
1.80



## Hole: F70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:20:56 | 36.42 | 30.32 | 431 | 1.71 | 0.17 | 23.5 |
| 4/23/2015 4:20:56 | 36.75 | 30.65 | 435 | 1.70 | 0.17 | 23.8 |
| 4/23/2015 4:20:57 | 37.07 | 30.97 | 435 | 1.69 | 0.17 | 23.8 |
| 4/23/2015 4:20:58 | 37.40 | 31.30 | 449 | 1.70 | 0.17 | 24.6 |
| 4/23/2015 4:20:59 | 37.73 | 31.63 | 439 | 1.71 | 0.17 | 24.0 |
| 4/23/2015 4:20:59 | 38.06 | 31.96 | 435 | 1.71 | 0.17 | 23.8 |
| 4/23/2015 4:21:01 | 38.39 | 32.29 | 439 | 1.70 | 0.17 | 24.0 |
| 4/23/2015 4:21:02 | 38.71 | 32.61 | 430 | 1.69 | 0.17 | 23.5 |
| 4/23/2015 4:21:02 | 39.04 | 32.94 | 430 | 1.67 | 0.17 | 23.5 |
| 4/23/2015 4:21:03 | 39.37 | 33.27 | 441 | 1.70 | 0.17 | 24.1 |
| 4/23/2015 4:21:04 | 39.70 | 33.60 | 427 | 1.71 | 0.17 | 23.4 |
| 4/23/2015 4:21:05 | 40.03 | 33.93 | 442 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 4:21:05 | 40.35 | 34.25 | 430 | 1.70 | 0.17 | 23.5 |
| 4/23/2015 4:21:06 | 40.68 | 34.58 | 429 | 1.69 | 0.17 | 23.5 |
| 4/23/2015 4:21:07 | 41.01 | 34.91 | 443 | 1.70 | 0.17 | 24.2 |
| 4/23/2015 4:21:08 | 41.34 | 35.24 | 433 | 1.70 | 0.17 | 23.7 |
| 4/23/2015 4:21:09 | 41.67 | 35.57 | 429 | 1.70 | 0.17 | 23.4 |
| 4/23/2015 4:21:26 | 41.99 | 35.89 | 21 | 1.70 | 0.17 | 1.2 |
| 4/23/2015 4:21:27 | 42.32 | 36.22 | 103 | 1.70 | 0.17 | 5.6 |
| 4/23/2015 4:21:28 | 42.65 | 36.55 | 173 | 1.68 | 0.17 | 9.5 |
| 4/23/2015 4:21:29 | 42.98 | 36.88 | 322 | 1.71 | 0.17 | 17.6 |
| 4/23/2015 4:21:29 | 43.31 | 37.21 | 322 | 1.69 | 0.17 | 17.6 |
| 4/23/2015 4:21:30 | 43.64 | 37.54 | 375 | 1.68 | 0.17 | 20.5 |
| 4/23/2015 4:21:32 | 43.96 | 37.86 | 382 | 1.69 | 0.17 | 20.9 |
| 4/23/2015 4:21:33 | 44.29 | 38.19 | 387 | 1.70 | 0.17 | 21.2 |
| 4/23/2015 4:21:33 | 44.62 | 38.52 | 383 | 1.69 | 0.17 | 20.9 |
| 4/23/2015 4:21:34 | 44.95 | 38.85 | 397 | 1.72 | 0.17 | 21.7 |
| 4/23/2015 4:21:35 | 45.28 | 39.18 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 4:21:36 | 45.60 | 39.50 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 4:21:37 | 45.93 | 39.83 | 385 | 1.70 | 0.17 | 21.1 |
| 4/23/2015 4:21:38 | 46.26 | 40.16 | 376 | 1.70 | 0.17 | 20.6 |
| 4/23/2015 4:21:39 | 46.59 | 40.49 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 4:21:40 | 46.92 | 40.82 | 383 | 1.70 | 0.18 | 20.9 |
| 4/23/2015 4:21:40 | 47.24 | 41.14 | 383 | 1.70 | 0.17 | 20.9 |
| 4/23/2015 4:21:41 | 47.57 | 41.47 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 4:21:42 | 47.90 | 41.80 | 386 | 1.69 | 0.17 | 21.1 |
| 4/23/2015 4:21:44 | 48.23 | 42.13 | 389 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 4:21:45 | 48.56 | 42.46 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 4:21:45 | 48.88 | 42.78 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 4:21:46 | 49.21 | 43.11 | 395 | 1.70 | 0.17 | 21.6 |
| 4/23/2015 4:21:47 | 49.54 | 43.44 | 379 | 1.70 | 0.17 | 20.7 |
| 4/23/2015 4:21:48 | 49.87 | 43.77 | 388 | 1.70 | 0.17 | 21.2 |
| 4/23/2015 4:21:49 | 50.20 | 44.10 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 4:21:50 | 50.53 | 44.43 | 382 | 1.70 | 0.17 | 20.9 |
| 4/23/2015 4:21:51 | 50.85 | 44.75 | 387 | 1.70 | 0.16 | 21.2 |
| 4/23/2015 4:21:52 | 51.18 | 45.08 | 383 | 1.70 | 0.17 | 20.9 |
| 4/23/2015 4:21:52 | 51.51 | 45.41 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 4:21:54 | 51.84 | 45.74 | 386 | 1.70 | 0.17 | 21.1 |
| 4/23/2015 4:21:55 | 52.17 | 46.07 | 392 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 4:21:56 | 52.49 | 46.39 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 4:21:56 | 52.82 | 46.72 | 394 | 1.72 | 0.17 | 21.6 |
| 4/23/2015 4:21:57 | 53.15 | 47.05 | 400 | 1.70 | 0.18 | 21.9 |
| 4/23/2015 4:21:58 | 53.48 | 47.38 | 404 | 1.67 | 0.17 | 22.1 |
| 4/23/2015 4:21:59 | 53.81 | 47.71 | 399 | 1.68 | 0.17 | 21.8 |
| 4/23/2015 4:22:00 | 54.13 | 48.03 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 4:22:01 | 54.46 | 48.36 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 4:22:02 | 54.79 | 48.69 | 405 | 1.69 | 0.17 | 22.1 |
| 4/23/2015 4:22:02 | 55.12 | 49.02 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 4:22:04 | 55.45 | 49.35 | 405 | 1.69 | 0.17 | 22.1 |
| 4/23/2015 4:22:05 | 55.77 | 49.67 | 395 | 1.70 | 0.17 | 21.6 |
| 4/23/2015 4:22:05 | 56.10 | 50.00 | 395 | 1.70 | 0.17 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:22:06 | 56.43 | 50.33 | 392 | 1.71 | 0.17 | 21.4 |
| 4/23/2015 | 4:22:07 | 56.76 | 50.66 | 380 | 1.69 | 0.17 | 20.8 |
| 4/23/2015 | 4:22:08 | 57.09 | 50.99 | 372 | 1.70 | 0.17 | 20.4 |
| 4/23/2015 | 4:22:09 | 57.41 | 51.31 | 370 | 1.70 | 0.17 | 20.2 |
| 4/23/2015 | 4:22:10 | 57.74 | 51.64 | 358 | 1.69 | 0.17 | 19.6 |
| 4/23/2015 | 4:22:11 | 58.07 | 51.97 | 332 | 1.73 | 0.17 | 18.1 |
| 4/23/2015 | 4:22:13 | 58.40 | 52.30 | 299 | 1.70 | 0.17 | 16.3 |
| 4/23/2015 | 4:22:14 | 58.73 | 52.63 | 280 | 1.69 | 0.17 | 15.3 |
| 4/23/2015 | 4:22:16 | 59.06 | 52.96 | 270 | 1.70 | 0.17 | 14.8 |
| 4/23/2015 | 4:22:17 | 59.38 | 53.28 | 266 | 1.69 | 0.17 | 14.5 |
| 4/23/2015 | 4:22:18 | 59.71 | 53.61 | 261 | 1.68 | 0.17 | 14.3 |
| 4/23/2015 | 4:22:19 | 60.04 | 53.94 | 267 | 1.68 | 0.17 | 14.6 |
| 4/23/2015 | 4:22:21 | 60.37 | 54.27 | 263 | 1.68 | 0.17 | 14.4 |
| 4/23/2015 | 4:22:22 | 60.70 | 54.60 | 267 | 1.70 | 0.17 | 14.6 |
| 4/23/2015 | 4:22:24 | 61.02 | 54.92 | 263 | 1.69 | 0.17 | 14.4 |
| 4/23/2015 | 4:22:25 | 61.28 | 55.18 | 261 | 1.66 | 0.17 | 14.3 |

## F70 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:17:00

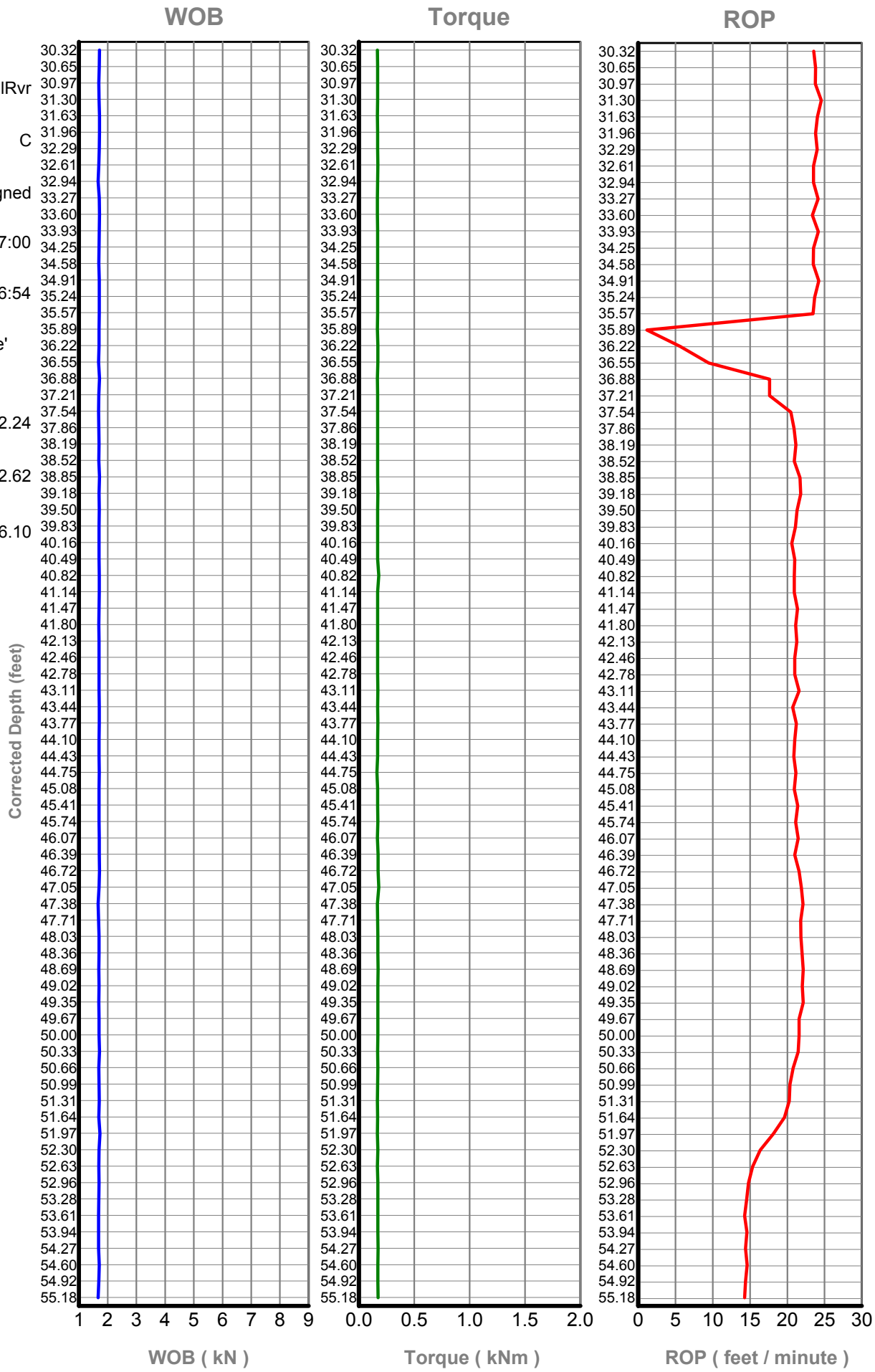
**End Date:**
4/23/2015 4:26:54

**Operator Note:**
'6.1 6.0 c Auto Complete'

**Northing:**
367,472.24

**Easting:**
252,012.62

**Tide (feet):**
6.10



## Hole: F71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:13:20 | 31.82 | 30.12 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:13:20 | 32.15 | 30.45 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:21 | 32.48 | 30.78 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:21 | 32.81 | 31.11 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:13:21 | 33.14 | 31.44 | 897 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:22 | 33.46 | 31.76 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:22 | 33.79 | 32.09 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:22 | 34.12 | 32.42 | 897 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:23 | 34.45 | 32.75 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 22:13:23 | 34.78 | 33.08 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 22:13:24 | 35.11 | 33.41 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 22:13:24 | 35.43 | 33.73 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 22:13:24 | 35.76 | 34.06 | 890 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 22:13:25 | 36.09 | 34.39 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:13:25 | 36.42 | 34.72 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 22:13:26 | 36.75 | 35.05 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 22:13:26 | 37.07 | 35.37 | 912 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:13:27 | 37.40 | 35.70 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:13:27 | 37.73 | 36.03 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:13:28 | 38.06 | 36.36 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 22:13:28 | 38.39 | 36.69 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 22:13:28 | 38.71 | 37.01 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 22:13:29 | 39.04 | 37.34 | 914 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 22:13:29 | 39.37 | 37.67 | 914 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 22:13:29 | 39.70 | 38.00 | 911 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:13:30 | 40.03 | 38.33 | 868 | 1.66 | 1.29 | 47.5 |
| 4/22/2015 22:13:31 | 40.35 | 38.65 | 740 | 1.66 | 1.29 | 40.4 |
| 4/22/2015 22:13:31 | 40.68 | 38.98 | 654 | 1.66 | 1.29 | 35.8 |
| 4/22/2015 22:13:32 | 41.01 | 39.31 | 485 | 1.66 | 1.29 | 26.5 |
| 4/22/2015 22:13:36 | 41.34 | 39.64 | 53 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 22:13:36 | 41.67 | 39.97 | 220 | 1.66 | 1.29 | 12.0 |
| 4/22/2015 22:13:37 | 41.99 | 40.29 | 220 | 1.66 | 1.29 | 12.0 |
| 4/22/2015 22:13:37 | 42.32 | 40.62 | 402 | 1.66 | 1.29 | 22.0 |
| 4/22/2015 22:13:37 | 42.65 | 40.95 | 576 | 1.66 | 1.29 | 31.5 |
| 4/22/2015 22:13:38 | 42.98 | 41.28 | 758 | 1.66 | 1.29 | 41.5 |
| 4/22/2015 22:13:39 | 43.31 | 41.61 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:13:39 | 43.64 | 41.94 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 22:13:39 | 43.96 | 42.26 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:40 | 44.29 | 42.59 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 22:13:40 | 44.62 | 42.92 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:13:41 | 44.95 | 43.25 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:13:41 | 45.28 | 43.58 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:13:41 | 45.60 | 43.90 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:13:42 | 45.93 | 44.23 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:13:42 | 46.26 | 44.56 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:13:42 | 46.59 | 44.89 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 22:13:43 | 46.92 | 45.22 | 891 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:13:43 | 47.24 | 45.54 | 891 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:13:44 | 47.57 | 45.87 | 891 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 22:13:44 | 47.90 | 46.20 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 22:13:44 | 48.23 | 46.53 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 22:13:45 | 48.56 | 46.86 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 22:13:45 | 48.88 | 47.18 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 22:13:45 | 49.21 | 47.51 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:13:46 | 49.54 | 47.84 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 22:13:46 | 49.87 | 48.17 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:13:47 | 50.20 | 48.50 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:13:47 | 50.53 | 48.83 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:13:47 | 50.85 | 49.15 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 22:13:48 | 51.18 | 49.48 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 22:13:48 | 51.51 | 49.81 | 869 | 1.66 | 1.29 | 47.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:14:17 | 51.84 | 50.14 | 38 | 1.66 | 1.29 | 2.1 |
| 4/22/2015 | 22:14:18 | 52.17 | 50.47 | 135 | 1.66 | 1.29 | 7.4 |
| 4/22/2015 | 22:14:19 | 52.49 | 50.79 | 283 | 1.66 | 1.29 | 15.5 |
| 4/22/2015 | 22:14:19 | 52.82 | 51.12 | 398 | 1.66 | 1.29 | 21.8 |
| 4/22/2015 | 22:14:30 | 53.15 | 51.45 | 3 | 1.66 | 1.29 | 0.2 |
| 4/22/2015 | 22:14:31 | 53.48 | 51.78 | 109 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 | 22:14:32 | 53.81 | 52.11 | 280 | 1.66 | 1.29 | 15.3 |
| 4/22/2015 | 22:14:33 | 54.13 | 52.43 | 411 | 1.66 | 1.29 | 22.5 |
| 4/22/2015 | 22:14:34 | 54.46 | 52.76 | 355 | 1.66 | 1.29 | 19.4 |
| 4/22/2015 | 22:14:35 | 54.79 | 53.09 | 390 | 1.66 | 1.29 | 21.3 |
| 4/22/2015 | 22:14:37 | 55.12 | 53.42 | 223 | 1.66 | 1.29 | 12.2 |
| 4/22/2015 | 22:14:43 | 55.45 | 53.75 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 | 22:14:44 | 55.77 | 54.07 | 186 | 1.66 | 1.29 | 10.2 |
| 4/22/2015 | 22:14:45 | 56.10 | 54.40 | 337 | 1.66 | 1.29 | 18.4 |
| 4/22/2015 | 22:14:46 | 56.43 | 54.73 | 369 | 1.66 | 1.29 | 20.2 |
| 4/22/2015 | 22:14:47 | 56.76 | 55.06 | 349 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 | 22:14:47 | 56.97 | 55.27 | 346 | 1.66 | 1.29 | 18.9 |

## F71 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 22:08:57

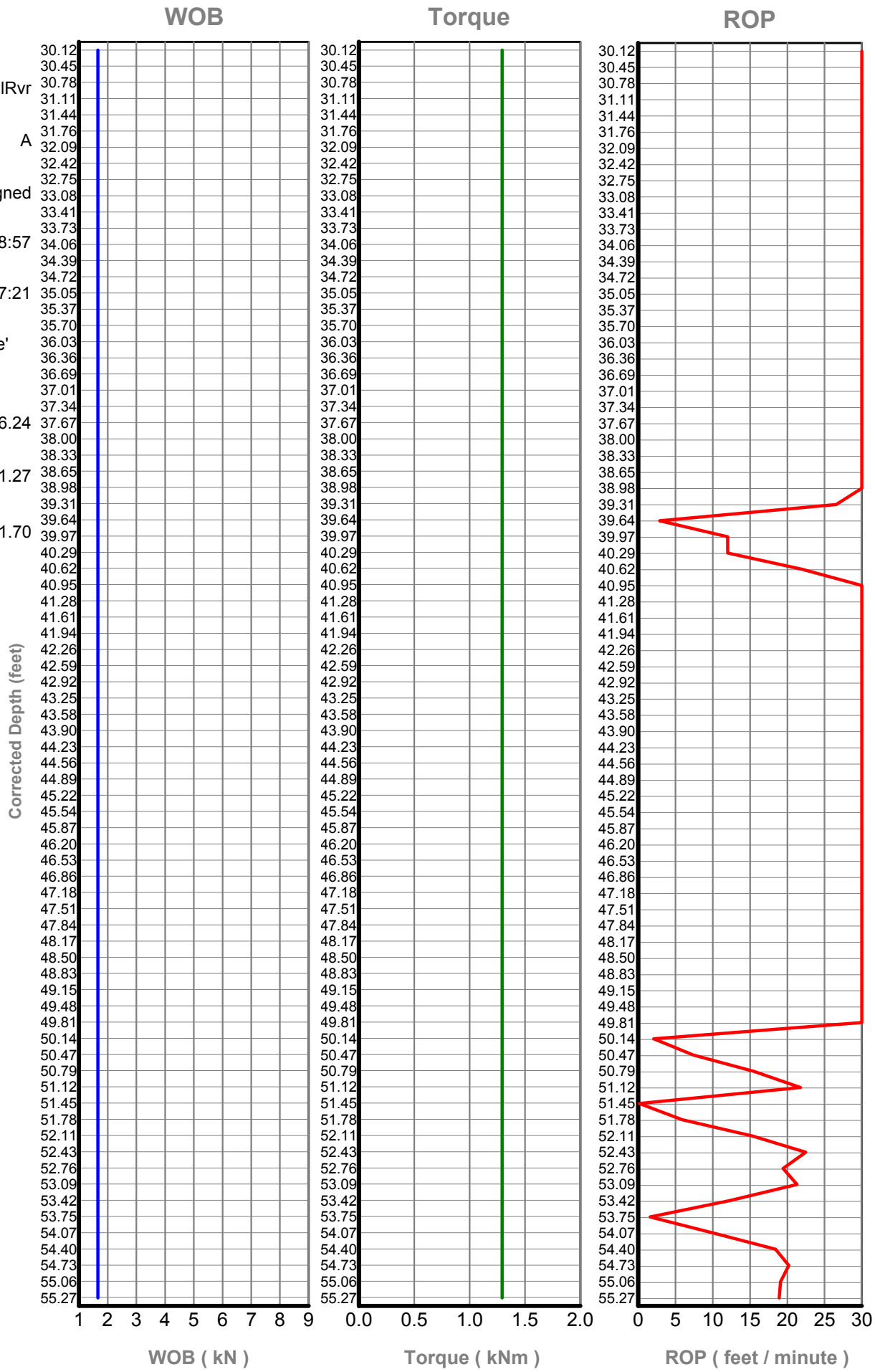
**End Date:**
4/22/2015 22:17:21

**Operator Note:**
'1.7 1.8 b Auto Complete'

**Northing:**
367,526.24

**Easting:**
252,071.27

**Tide (feet):**
1.70



## Hole: F72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:24:04 | 31.50 | 30.10 | 86 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 22:24:04 | 31.82 | 30.42 | 262 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 22:24:05 | 32.15 | 30.75 | 444 | 1.66 | 1.29 | 24.3 |
| 4/22/2015 22:24:06 | 32.48 | 31.08 | 444 | 1.66 | 1.29 | 24.3 |
| 4/22/2015 22:24:06 | 32.81 | 31.41 | 622 | 1.66 | 1.29 | 34.0 |
| 4/22/2015 22:24:06 | 33.14 | 31.74 | 802 | 1.66 | 1.29 | 43.8 |
| 4/22/2015 22:24:07 | 33.46 | 32.06 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:24:07 | 33.79 | 32.39 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 22:24:07 | 34.12 | 32.72 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:24:08 | 34.45 | 33.05 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 22:24:08 | 34.78 | 33.38 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:24:09 | 35.11 | 33.71 | 904 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:24:09 | 35.43 | 34.03 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 22:24:09 | 35.76 | 34.36 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 22:24:10 | 36.09 | 34.69 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:24:10 | 36.42 | 35.02 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 22:24:10 | 36.75 | 35.35 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:24:11 | 37.07 | 35.67 | 910 | 1.66 | 1.29 | 49.8 |
| 4/22/2015 22:24:11 | 37.40 | 36.00 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:12 | 37.73 | 36.33 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:12 | 38.06 | 36.66 | 917 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 22:24:12 | 38.39 | 36.99 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:24:13 | 38.71 | 37.31 | 929 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:24:13 | 39.04 | 37.64 | 929 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 22:24:13 | 39.37 | 37.97 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:24:14 | 39.70 | 38.30 | 923 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 22:24:14 | 40.03 | 38.63 | 933 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 22:24:15 | 40.35 | 38.95 | 933 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 22:24:15 | 40.68 | 39.28 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:15 | 41.01 | 39.61 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:16 | 41.34 | 39.94 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:17 | 41.67 | 40.27 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:16 | 41.99 | 40.59 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:24:17 | 42.32 | 40.92 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 22:24:18 | 42.65 | 41.25 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:18 | 42.98 | 41.58 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:18 | 43.31 | 41.91 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:24:19 | 43.64 | 42.24 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:24:19 | 43.96 | 42.56 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 22:24:19 | 44.29 | 42.89 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:24:20 | 44.62 | 43.22 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:24:20 | 44.95 | 43.55 | 921 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 22:24:21 | 45.28 | 43.88 | 921 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 22:24:21 | 45.60 | 44.20 | 921 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 22:24:21 | 45.93 | 44.53 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:22 | 46.26 | 44.86 | 921 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:22 | 46.59 | 45.19 | 921 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:22 | 46.92 | 45.52 | 921 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:23 | 47.24 | 45.84 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 22:24:23 | 47.57 | 46.17 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:24:24 | 47.90 | 46.50 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:24:24 | 48.23 | 46.83 | 939 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 22:24:24 | 48.56 | 47.16 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 22:24:25 | 48.88 | 47.48 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:24:25 | 49.21 | 47.81 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:24:25 | 49.54 | 48.14 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 22:24:26 | 49.87 | 48.47 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 22:24:26 | 50.20 | 48.80 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 22:24:51 | 50.53 | 49.13 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 22:24:53 | 50.85 | 49.45 | 136 | 1.66 | 1.29 | 7.5 |
| 4/22/2015 22:25:01 | 51.18 | 49.78 | 41 | 1.66 | 1.29 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:25:03 | 51.51 | 50.11 | 178 | 1.66 | 1.29 | 9.7 |
| 4/22/2015 | 22:25:05 | 51.84 | 50.44 | 244 | 1.66 | 1.29 | 13.3 |
| 4/22/2015 | 22:25:08 | 52.17 | 50.77 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 22:25:09 | 52.49 | 51.09 | 225 | 1.66 | 1.29 | 12.3 |
| 4/22/2015 | 22:25:23 | 52.82 | 51.42 | 46 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 | 22:25:24 | 53.15 | 51.75 | 177 | 1.66 | 1.29 | 9.7 |
| 4/22/2015 | 22:25:26 | 53.48 | 52.08 | 334 | 1.66 | 1.29 | 18.2 |
| 4/22/2015 | 22:25:28 | 53.81 | 52.41 | 152 | 1.66 | 1.29 | 8.3 |
| 4/22/2015 | 22:25:29 | 54.13 | 52.73 | 262 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 | 22:25:30 | 54.46 | 53.06 | 372 | 1.66 | 1.29 | 20.3 |
| 4/22/2015 | 22:25:30 | 54.79 | 53.39 | 390 | 1.66 | 1.29 | 21.3 |
| 4/22/2015 | 22:25:49 | 55.12 | 53.72 | 23 | 1.66 | 1.29 | 1.3 |
| 4/22/2015 | 22:25:50 | 55.45 | 54.05 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 | 22:25:51 | 55.77 | 54.37 | 249 | 1.66 | 1.29 | 13.6 |
| 4/22/2015 | 22:25:53 | 56.10 | 54.70 | 209 | 1.66 | 1.29 | 11.4 |
| 4/22/2015 | 22:25:54 | 56.43 | 55.03 | 217 | 1.66 | 1.29 | 11.9 |
| 4/22/2015 | 22:25:55 | 56.75 | 55.35 | 242 | 1.66 | 1.29 | 13.2 |

## F72 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/22/2015 22:21:35

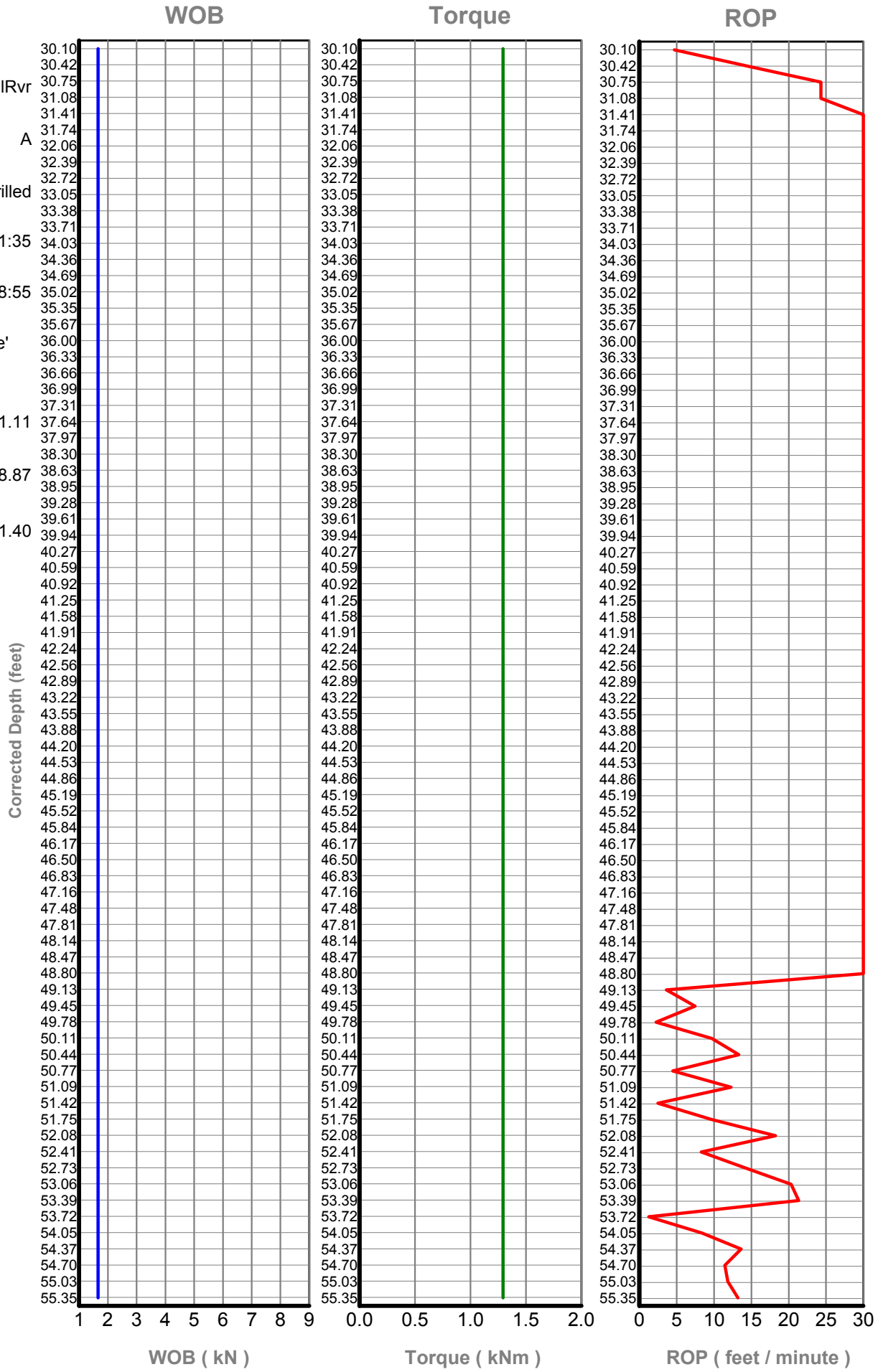
**End Date:**
4/22/2015 22:28:55

**Operator Note:**
'1.4 1.6 b Auto Complete'

**Northing:**
367,561.11

**Easting:**
252,118.87

**Tide (feet):**
1.40



## Hole: F73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 22:13:34 | 31.82 | 30.22 | 358 | 1.66 | 0.15 | 19.6 |
| 4/22/2015 22:13:36 | 32.15 | 30.55 | 358 | 1.68 | 0.15 | 19.6 |
| 4/22/2015 22:13:37 | 32.48 | 30.88 | 357 | 1.67 | 0.15 | 19.5 |
| 4/22/2015 22:13:38 | 32.81 | 31.21 | 362 | 1.69 | 0.15 | 19.8 |
| 4/22/2015 22:13:39 | 33.14 | 31.54 | 362 | 1.66 | 0.15 | 19.8 |
| 4/22/2015 22:13:40 | 33.46 | 31.86 | 361 | 1.68 | 0.15 | 19.8 |
| 4/22/2015 22:13:41 | 33.79 | 32.19 | 359 | 1.66 | 0.15 | 19.6 |
| 4/22/2015 22:13:42 | 34.12 | 32.52 | 361 | 1.67 | 0.15 | 19.8 |
| 4/22/2015 22:13:43 | 34.45 | 32.85 | 361 | 1.66 | 0.15 | 19.8 |
| 4/22/2015 22:13:43 | 34.78 | 33.18 | 364 | 1.67 | 0.15 | 19.9 |
| 4/22/2015 22:13:44 | 35.11 | 33.51 | 364 | 1.67 | 0.16 | 19.9 |
| 4/22/2015 22:13:46 | 35.43 | 33.83 | 364 | 1.67 | 0.15 | 19.9 |
| 4/22/2015 22:13:47 | 35.76 | 34.16 | 361 | 1.66 | 0.15 | 19.8 |
| 4/22/2015 22:13:48 | 36.09 | 34.49 | 367 | 1.67 | 0.16 | 20.1 |
| 4/22/2015 22:13:49 | 36.42 | 34.82 | 366 | 1.66 | 0.16 | 20.0 |
| 4/22/2015 22:13:50 | 36.75 | 35.15 | 364 | 1.66 | 0.16 | 19.9 |
| 4/22/2015 22:13:51 | 37.07 | 35.47 | 364 | 1.66 | 0.15 | 19.9 |
| 4/22/2015 22:13:52 | 37.40 | 35.80 | 364 | 1.68 | 0.16 | 19.9 |
| 4/22/2015 22:13:52 | 37.73 | 36.13 | 367 | 1.68 | 0.16 | 20.1 |
| 4/22/2015 22:13:53 | 38.06 | 36.46 | 361 | 1.67 | 0.16 | 19.8 |
| 4/22/2015 22:13:54 | 38.39 | 36.79 | 365 | 1.67 | 0.16 | 19.9 |
| 4/22/2015 22:13:55 | 38.71 | 37.11 | 359 | 1.67 | 0.16 | 19.6 |
| 4/22/2015 22:13:57 | 39.04 | 37.44 | 364 | 1.67 | 0.16 | 19.9 |
| 4/22/2015 22:13:58 | 39.37 | 37.77 | 367 | 1.68 | 0.16 | 20.1 |
| 4/22/2015 22:13:59 | 39.70 | 38.10 | 367 | 1.67 | 0.16 | 20.1 |
| 4/22/2015 22:14:00 | 40.03 | 38.43 | 364 | 1.68 | 0.16 | 19.9 |
| 4/22/2015 22:14:00 | 40.35 | 38.75 | 367 | 1.67 | 0.16 | 20.1 |
| 4/22/2015 22:14:01 | 40.68 | 39.08 | 364 | 1.67 | 0.16 | 19.9 |
| 4/22/2015 22:14:02 | 41.01 | 39.41 | 367 | 1.66 | 0.16 | 20.1 |
| 4/22/2015 22:14:03 | 41.34 | 39.74 | 367 | 1.67 | 0.16 | 20.1 |
| 4/22/2015 22:14:10 | 41.67 | 40.07 | 3 | 1.68 | 0.15 | 0.2 |
| 4/22/2015 22:14:11 | 41.99 | 40.39 | 80 | 1.68 | 0.16 | 4.4 |
| 4/22/2015 22:14:12 | 42.32 | 40.72 | 248 | 1.68 | 0.16 | 13.5 |
| 4/22/2015 22:14:13 | 42.65 | 41.05 | 413 | 1.68 | 0.16 | 22.6 |
| 4/22/2015 22:14:13 | 42.98 | 41.38 | 412 | 1.67 | 0.16 | 22.6 |
| 4/22/2015 22:14:14 | 43.31 | 41.71 | 412 | 1.68 | 0.16 | 22.5 |
| 4/22/2015 22:14:15 | 43.64 | 42.04 | 420 | 1.68 | 0.16 | 23.0 |
| 4/22/2015 22:14:16 | 43.96 | 42.36 | 421 | 1.68 | 0.16 | 23.0 |
| 4/22/2015 22:14:17 | 44.29 | 42.69 | 425 | 1.68 | 0.16 | 23.2 |
| 4/22/2015 22:14:18 | 44.62 | 43.02 | 419 | 1.67 | 0.16 | 22.9 |
| 4/22/2015 22:14:19 | 44.95 | 43.35 | 412 | 1.68 | 0.16 | 22.5 |
| 4/22/2015 22:14:20 | 45.28 | 43.68 | 418 | 1.68 | 0.15 | 22.9 |
| 4/22/2015 22:14:20 | 45.60 | 44.00 | 418 | 1.68 | 0.16 | 22.9 |
| 4/22/2015 22:14:21 | 45.93 | 44.33 | 419 | 1.68 | 0.15 | 22.9 |
| 4/22/2015 22:14:22 | 46.26 | 44.66 | 422 | 1.68 | 0.15 | 23.1 |
| 4/22/2015 22:14:23 | 46.59 | 44.99 | 420 | 1.70 | 0.15 | 23.0 |
| 4/22/2015 22:14:24 | 46.92 | 45.32 | 419 | 1.66 | 0.16 | 22.9 |
| 4/22/2015 22:14:24 | 47.24 | 45.64 | 419 | 1.67 | 0.16 | 22.9 |
| 4/22/2015 22:14:25 | 47.57 | 45.97 | 419 | 1.68 | 0.16 | 22.9 |
| 4/22/2015 22:14:26 | 47.90 | 46.30 | 419 | 1.68 | 0.15 | 22.9 |
| 4/22/2015 22:14:27 | 48.23 | 46.63 | 417 | 1.67 | 0.16 | 22.8 |
| 4/22/2015 22:14:28 | 48.56 | 46.96 | 419 | 1.68 | 0.15 | 22.9 |
| 4/22/2015 22:15:17 | 48.88 | 47.28 | 82 | 1.72 | 1.41 | 4.5 |
| 4/22/2015 22:15:18 | 49.21 | 47.61 | 129 | 1.68 | 1.31 | 7.1 |
| 4/22/2015 22:15:24 | 49.54 | 47.94 | 63 | 1.71 | 1.13 | 3.4 |
| 4/22/2015 22:15:25 | 49.87 | 48.27 | 173 | 1.70 | 1.18 | 9.5 |
| 4/22/2015 22:15:37 | 50.20 | 48.60 | 57 | 1.66 | 1.00 | 3.1 |
| 4/22/2015 22:15:38 | 50.53 | 48.93 | 134 | 1.68 | 0.99 | 7.3 |
| 4/22/2015 22:15:39 | 50.85 | 49.25 | 279 | 1.68 | 1.03 | 15.3 |
| 4/22/2015 22:15:40 | 51.18 | 49.58 | 353 | 1.69 | 0.98 | 19.3 |
| 4/22/2015 22:18:16 | 51.51 | 49.91 | 118 | 1.70 | 1.07 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 22:18:17 | 51.84 | 50.24 | 227 | 1.70 | 1.19 | 12.4 |
| 4/22/2015 | 22:18:30 | 52.17 | 50.57 | 91 | 1.70 | 1.13 | 5.0 |
| 4/22/2015 | 22:18:31 | 52.49 | 50.89 | 247 | 1.68 | 1.24 | 13.5 |
| 4/22/2015 | 22:18:32 | 52.82 | 51.22 | 286 | 1.68 | 0.98 | 15.7 |
| 4/22/2015 | 22:19:13 | 53.15 | 51.55 | 5 | 1.68 | 1.19 | 0.3 |
| 4/22/2015 | 22:19:14 | 53.48 | 51.88 | 129 | 1.68 | 1.07 | 7.1 |
| 4/22/2015 | 22:19:16 | 53.81 | 52.21 | 232 | 1.66 | 1.19 | 12.7 |
| 4/22/2015 | 22:19:18 | 54.13 | 52.53 | 224 | 1.66 | 1.06 | 12.2 |
| 4/22/2015 | 22:19:28 | 54.46 | 52.86 | 52 | 1.69 | 1.11 | 2.8 |
| 4/22/2015 | 22:19:31 | 54.79 | 53.19 | 132 | 1.70 | 1.04 | 7.2 |
| 4/22/2015 | 22:20:24 | 55.12 | 53.52 | 26 | 1.68 | 1.16 | 1.4 |
| 4/22/2015 | 22:20:27 | 55.45 | 53.85 | 126 | 1.71 | 1.26 | 6.9 |
| 4/22/2015 | 22:21:08 | 55.77 | 54.17 | 43 | 1.69 | 1.20 | 2.4 |
| 4/22/2015 | 22:21:10 | 56.10 | 54.50 | 156 | 1.66 | 1.07 | 8.5 |
| 4/22/2015 | 22:21:13 | 56.43 | 54.83 | 104 | 1.70 | 1.19 | 5.7 |
| 4/22/2015 | 22:21:16 | 56.74 | 55.14 | 104 | 1.69 | 1.01 | 5.7 |

## F73 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 22:10:28

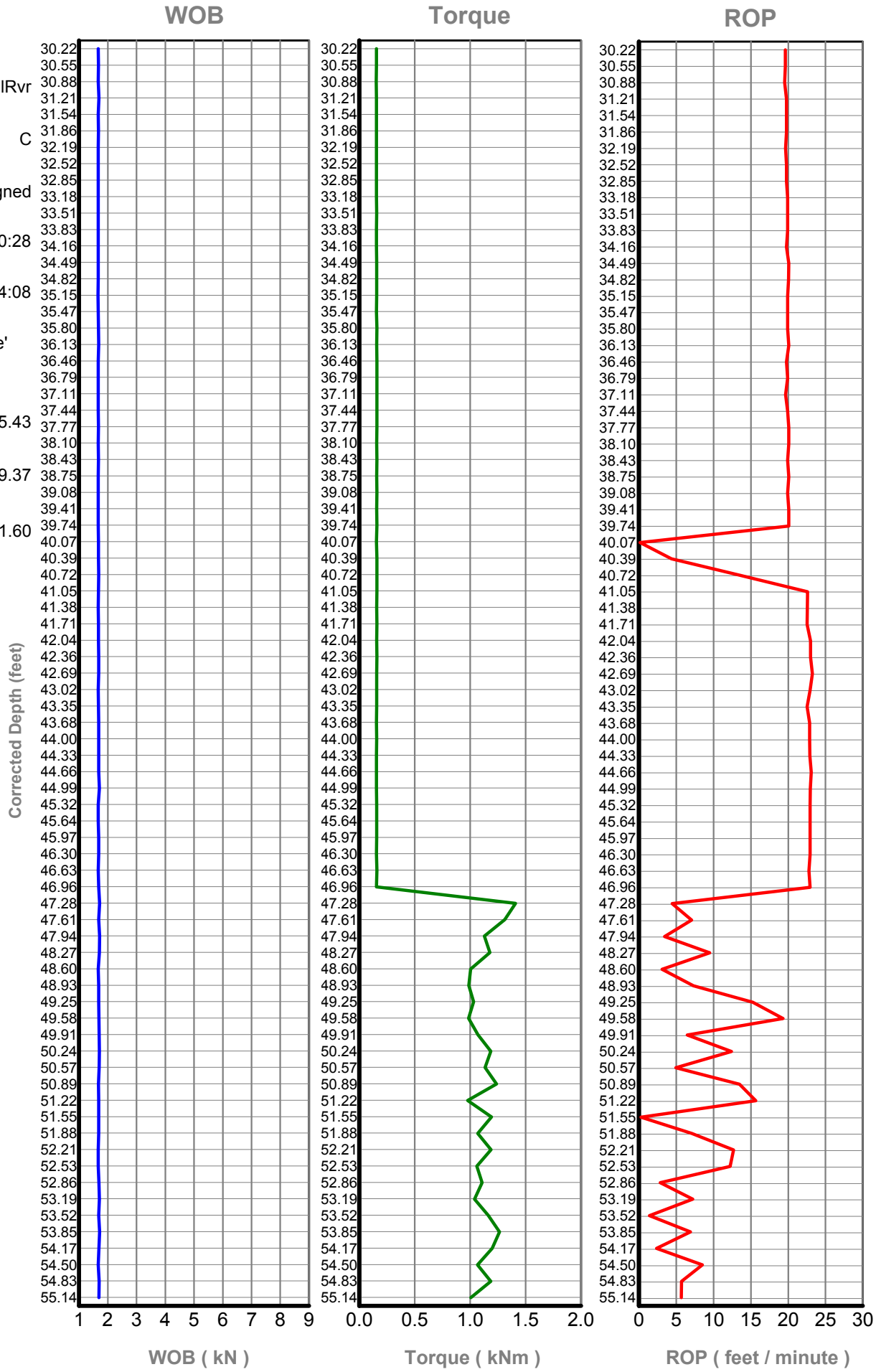
**End Date:**
4/22/2015 22:24:08

**Operator Note:**
'1.6 1.7 c Auto Complete'

**Northing:**
367,605.43

**Easting:**
252,179.37

**Tide (feet):**
1.60



## Hole: F74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:20:04 | 35.43 | 30.13 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 14:20:04 | 35.76 | 30.46 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 14:20:04 | 36.09 | 30.79 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 14:20:05 | 36.42 | 31.12 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 14:20:05 | 36.75 | 31.45 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 14:20:05 | 37.07 | 31.77 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:20:06 | 37.40 | 32.10 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:20:06 | 37.73 | 32.43 | 1,052 | 1.66 | 1.29 | 57.5 |
| 4/22/2015 14:20:06 | 38.06 | 32.76 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 14:20:07 | 38.39 | 33.09 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 14:20:07 | 38.71 | 33.41 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 14:20:07 | 39.04 | 33.74 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 14:20:08 | 39.37 | 34.07 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 14:20:08 | 39.70 | 34.40 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 14:20:08 | 40.03 | 34.73 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:09 | 40.35 | 35.05 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:09 | 40.68 | 35.38 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:09 | 41.01 | 35.71 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:09 | 41.34 | 36.04 | 1,073 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 14:20:10 | 41.67 | 36.37 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:11 | 41.99 | 36.69 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:11 | 42.32 | 37.02 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 14:20:11 | 42.65 | 37.35 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 14:20:12 | 42.98 | 37.68 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 14:20:12 | 43.31 | 38.01 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 14:20:12 | 43.64 | 38.34 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 14:20:13 | 43.96 | 38.66 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 14:20:13 | 44.29 | 38.99 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:20:13 | 44.62 | 39.32 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 14:20:14 | 44.95 | 39.65 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 14:20:15 | 45.28 | 39.98 | 723 | 1.66 | 1.29 | 39.5 |
| 4/22/2015 14:20:19 | 45.60 | 40.30 | 109 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 14:20:20 | 45.93 | 40.63 | 109 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 14:20:20 | 46.26 | 40.96 | 306 | 1.66 | 1.29 | 16.7 |
| 4/22/2015 14:20:20 | 46.59 | 41.29 | 512 | 1.66 | 1.29 | 28.0 |
| 4/22/2015 14:20:21 | 46.92 | 41.62 | 512 | 1.66 | 1.29 | 28.0 |
| 4/22/2015 14:20:21 | 47.24 | 41.94 | 715 | 1.66 | 1.29 | 39.1 |
| 4/22/2015 14:20:22 | 47.57 | 42.27 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 14:20:22 | 47.90 | 42.60 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 14:20:22 | 48.23 | 42.93 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:20:23 | 48.56 | 43.26 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 14:20:23 | 48.88 | 43.58 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 14:20:23 | 49.21 | 43.91 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 14:20:24 | 49.54 | 44.24 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:20:24 | 49.87 | 44.57 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:20:24 | 50.20 | 44.90 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:20:25 | 50.53 | 45.23 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:21:24 | 50.85 | 45.55 | 42 | 1.66 | 1.29 | 2.3 |
| 4/22/2015 14:21:30 | 51.18 | 45.88 | 76 | 1.66 | 1.29 | 4.2 |
| 4/22/2015 14:21:31 | 51.51 | 46.21 | 131 | 1.66 | 1.29 | 7.1 |
| 4/22/2015 14:21:32 | 51.84 | 46.54 | 270 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 14:21:33 | 52.17 | 46.87 | 349 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 14:21:38 | 52.49 | 47.19 | 80 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 14:21:39 | 52.82 | 47.52 | 229 | 1.66 | 1.29 | 12.5 |
| 4/22/2015 14:21:41 | 53.15 | 47.85 | 309 | 1.66 | 1.29 | 16.9 |
| 4/22/2015 14:21:43 | 53.48 | 48.18 | 167 | 1.66 | 1.29 | 9.1 |
| 4/22/2015 14:21:44 | 53.81 | 48.51 | 268 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 14:21:45 | 54.13 | 48.83 | 372 | 1.66 | 1.29 | 20.3 |
| 4/22/2015 14:21:46 | 54.46 | 49.16 | 254 | 1.66 | 1.29 | 13.9 |
| 4/22/2015 14:21:48 | 54.79 | 49.49 | 244 | 1.66 | 1.29 | 13.4 |
| 4/22/2015 14:21:49 | 55.12 | 49.82 | 273 | 1.66 | 1.29 | 14.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 14:21:49 | 55.45 | 50.15 | 308 | 1.66 | 1.29 | 16.9 |
| 4/22/2015 | 14:21:50 | 55.77 | 50.47 | 375 | 1.66 | 1.29 | 20.5 |
| 4/22/2015 | 14:21:52 | 56.10 | 50.80 | 329 | 1.66 | 1.29 | 18.0 |
| 4/22/2015 | 14:21:53 | 56.43 | 51.13 | 269 | 1.66 | 1.29 | 14.7 |
| 4/22/2015 | 14:21:54 | 56.76 | 51.46 | 309 | 1.66 | 1.29 | 16.9 |
| 4/22/2015 | 14:21:55 | 57.09 | 51.79 | 384 | 1.66 | 1.29 | 21.0 |
| 4/22/2015 | 14:21:56 | 57.41 | 52.11 | 393 | 1.66 | 1.29 | 21.5 |
| 4/22/2015 | 14:21:59 | 57.74 | 52.44 | 134 | 1.66 | 1.29 | 7.3 |
| 4/22/2015 | 14:22:02 | 58.07 | 52.77 | 99 | 1.66 | 1.29 | 5.4 |
| 4/22/2015 | 14:22:07 | 58.40 | 53.10 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 14:22:11 | 58.73 | 53.43 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 14:22:15 | 59.06 | 53.76 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 14:22:20 | 59.38 | 54.08 | 85 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 14:22:24 | 59.71 | 54.41 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 14:22:29 | 60.04 | 54.74 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 14:22:57 | 60.37 | 55.07 | 8 | 1.66 | 1.29 | 0.5 |

## F74 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 14:19:11

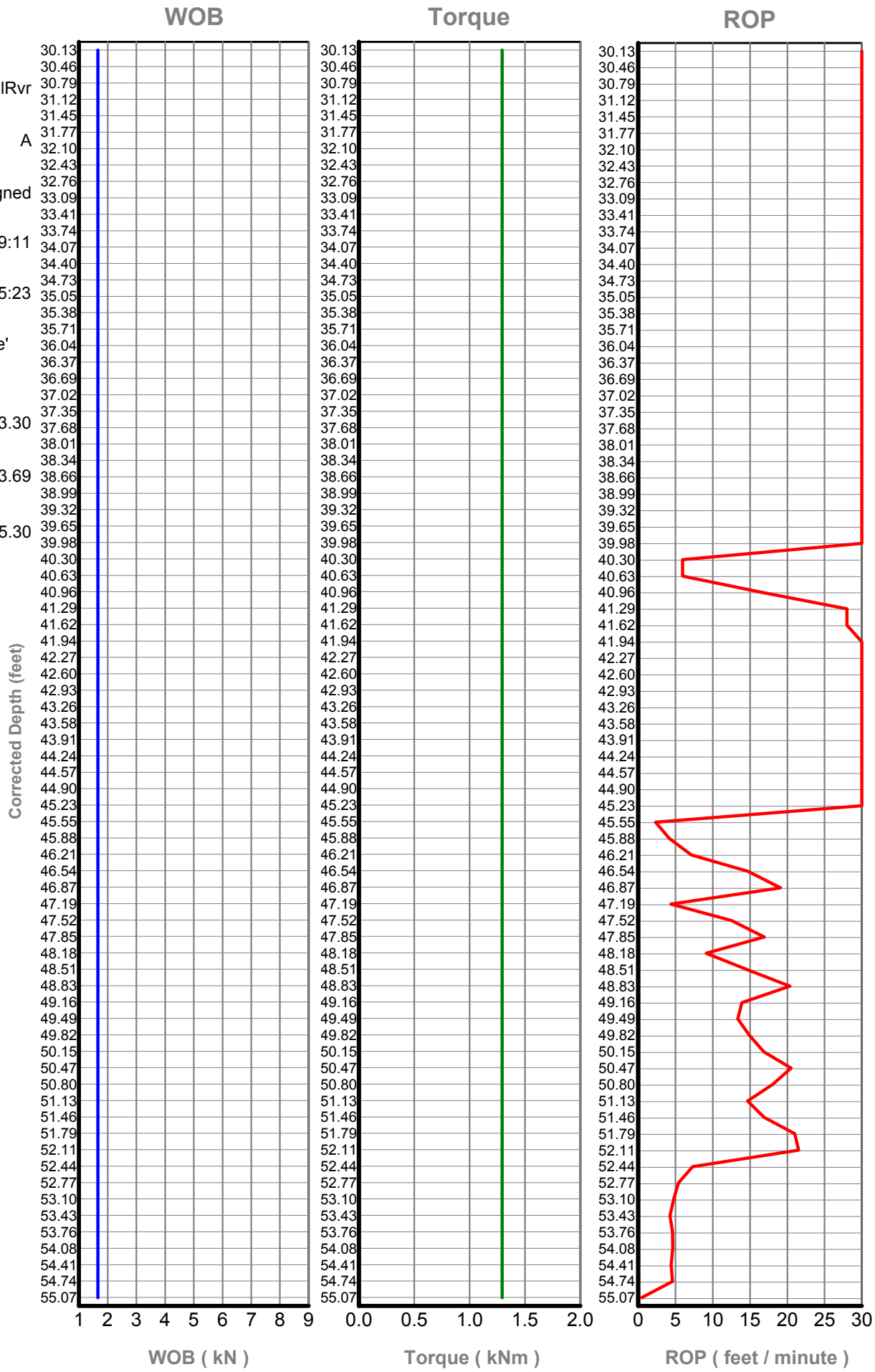
**End Date:**
4/22/2015 14:25:23

**Operator Note:**
'5.3 5.1 b Auto Complete'

**Northing:**
367,683.30

**Easting:**
252,263.69

**Tide (feet):**
5.30



## Hole: F75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:28:06 | 35.43 | 30.13 | 1,063 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 14:28:06 | 35.76 | 30.46 | 1,036 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:28:07 | 36.09 | 30.79 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 14:28:07 | 36.42 | 31.12 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 14:28:07 | 36.75 | 31.45 | 1,058 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 14:28:08 | 37.07 | 31.77 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 14:28:08 | 37.40 | 32.10 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 14:28:08 | 37.73 | 32.43 | 1,034 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:28:09 | 38.06 | 32.76 | 1,034 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:28:09 | 38.39 | 33.09 | 1,034 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:28:09 | 38.71 | 33.41 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:28:10 | 39.04 | 33.74 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:28:10 | 39.37 | 34.07 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:28:10 | 39.70 | 34.40 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 14:28:11 | 40.03 | 34.73 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 14:28:11 | 40.35 | 35.05 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 14:28:11 | 40.68 | 35.38 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 14:28:12 | 41.01 | 35.71 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 14:28:12 | 41.34 | 36.04 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 14:28:12 | 41.67 | 36.37 | 1,040 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:28:13 | 41.99 | 36.69 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 14:28:13 | 42.32 | 37.02 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 14:28:13 | 42.65 | 37.35 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 14:28:14 | 42.98 | 37.68 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:28:15 | 43.31 | 38.01 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:28:14 | 43.64 | 38.34 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 14:28:15 | 43.96 | 38.66 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:28:16 | 44.29 | 38.99 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:28:16 | 44.62 | 39.32 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:28:16 | 44.95 | 39.65 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 14:28:17 | 45.28 | 39.98 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 14:28:17 | 45.60 | 40.30 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 14:28:17 | 45.93 | 40.63 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:28:18 | 46.26 | 40.96 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:28:18 | 46.59 | 41.29 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:28:18 | 46.92 | 41.62 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:28:19 | 47.24 | 41.94 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:28:19 | 47.57 | 42.27 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:28:19 | 47.90 | 42.60 | 998 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:28:20 | 48.23 | 42.93 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:28:20 | 48.56 | 43.26 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:28:20 | 48.88 | 43.58 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 14:28:21 | 49.21 | 43.91 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:28:21 | 49.54 | 44.24 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:28:21 | 49.87 | 44.57 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:28:22 | 50.20 | 44.90 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 14:28:22 | 50.53 | 45.23 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 14:28:22 | 50.85 | 45.55 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 14:28:30 | 51.18 | 45.88 | 9 | 1.66 | 1.29 | 0.5 |
| 4/22/2015 14:28:32 | 51.51 | 46.21 | 146 | 1.66 | 1.29 | 8.0 |
| 4/22/2015 14:28:35 | 51.84 | 46.54 | 94 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 14:28:35 | 52.17 | 46.87 | 202 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 14:28:36 | 52.49 | 47.19 | 323 | 1.66 | 1.29 | 17.6 |
| 4/22/2015 14:28:37 | 52.82 | 47.52 | 520 | 1.66 | 1.29 | 28.4 |
| 4/22/2015 14:28:38 | 53.15 | 47.85 | 451 | 1.66 | 1.29 | 24.6 |
| 4/22/2015 14:28:54 | 53.48 | 48.18 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 14:28:55 | 53.81 | 48.51 | 183 | 1.66 | 1.29 | 10.0 |
| 4/22/2015 14:28:56 | 54.13 | 48.83 | 258 | 1.66 | 1.29 | 14.1 |
| 4/22/2015 14:28:57 | 54.46 | 49.16 | 349 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 14:28:58 | 54.79 | 49.49 | 347 | 1.66 | 1.29 | 19.0 |
| 4/22/2015 14:28:59 | 55.12 | 49.82 | 393 | 1.66 | 1.29 | 21.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 14:29:00 | 55.45 | 50.15 | 411 | 1.66 | 1.29 | 22.5 |
| 4/22/2015 | 14:29:01 | 55.77 | 50.47 | 378 | 1.66 | 1.29 | 20.6 |
| 4/22/2015 | 14:29:02 | 56.10 | 50.80 | 323 | 1.66 | 1.29 | 17.6 |
| 4/22/2015 | 14:29:03 | 56.43 | 51.13 | 334 | 1.66 | 1.29 | 18.3 |
| 4/22/2015 | 14:29:04 | 56.76 | 51.46 | 343 | 1.66 | 1.29 | 18.8 |
| 4/22/2015 | 14:29:05 | 57.09 | 51.79 | 349 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 | 14:29:06 | 57.41 | 52.11 | 323 | 1.66 | 1.29 | 17.7 |
| 4/22/2015 | 14:29:08 | 57.74 | 52.44 | 286 | 1.66 | 1.29 | 15.6 |
| 4/22/2015 | 14:29:09 | 58.07 | 52.77 | 298 | 1.66 | 1.29 | 16.3 |
| 4/22/2015 | 14:29:10 | 58.40 | 53.10 | 304 | 1.66 | 1.29 | 16.6 |
| 4/22/2015 | 14:29:12 | 58.73 | 53.43 | 265 | 1.66 | 1.29 | 14.5 |
| 4/22/2015 | 14:29:13 | 59.06 | 53.76 | 248 | 1.66 | 1.29 | 13.6 |
| 4/22/2015 | 14:29:14 | 59.38 | 54.08 | 292 | 1.66 | 1.29 | 16.0 |
| 4/22/2015 | 14:29:15 | 59.71 | 54.41 | 320 | 1.66 | 1.29 | 17.5 |
| 4/22/2015 | 14:29:16 | 60.04 | 54.74 | 288 | 1.66 | 1.29 | 15.7 |
| 4/22/2015 | 14:29:17 | 60.09 | 54.79 | 276 | 1.66 | 1.29 | 15.1 |

## F75 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 14:26:24

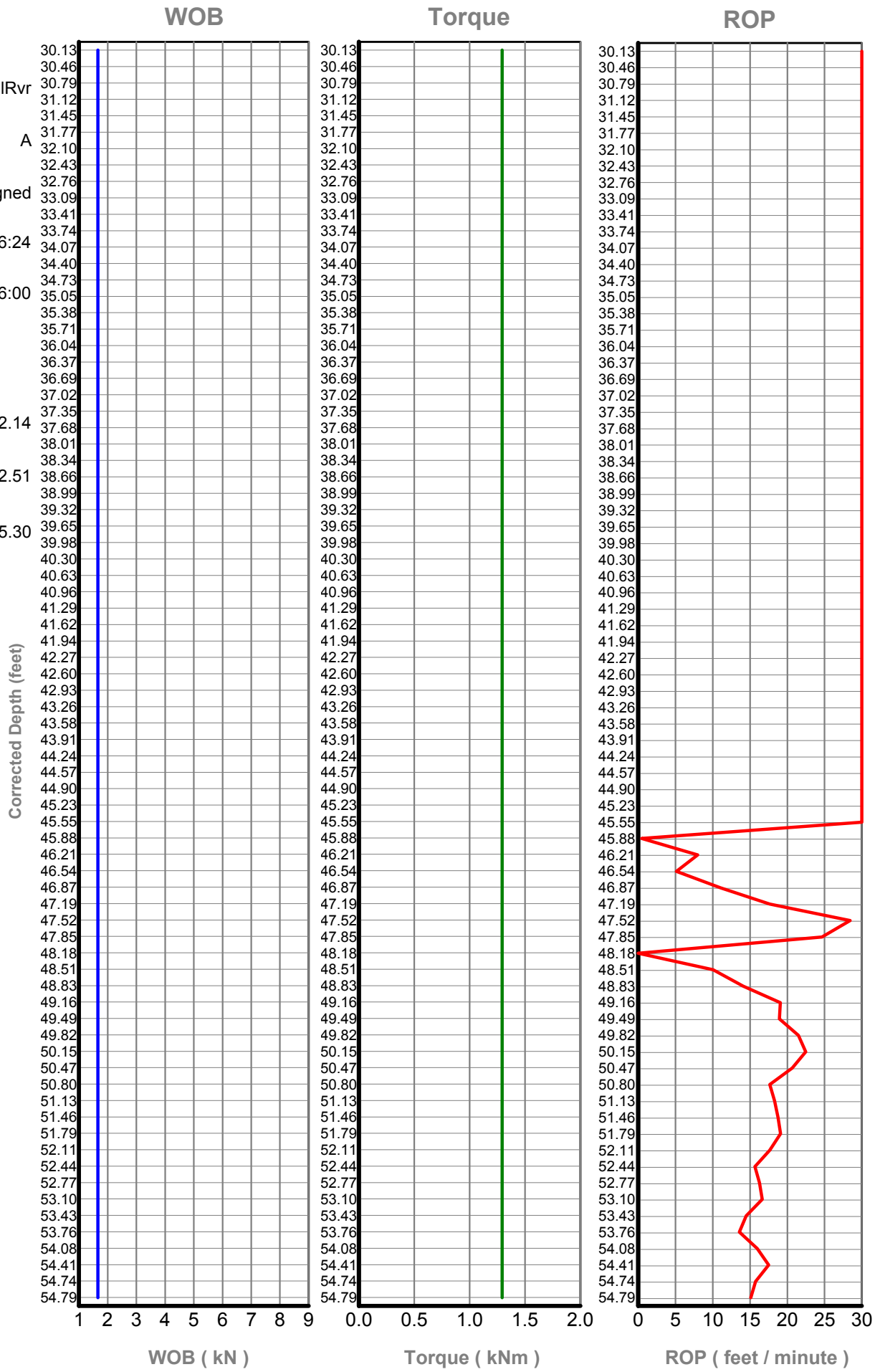
**End Date:**
4/22/2015 14:36:00

**Operator Note:**
'5.3 '5.5 5.1 b Auto Complete'

**Northing:**
367,722.14

**Easting:**
252,312.51

**Tide (feet):**
5.30



## Hole: F76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:23:50 | 35.43 | 30.13 | 480 | 1.70 | 0.30 | 26.2 |
| 4/22/2015 14:23:51 | 35.76 | 30.46 | 483 | 1.72 | 0.30 | 26.4 |
| 4/22/2015 14:23:51 | 36.09 | 30.79 | 472 | 1.70 | 0.30 | 25.8 |
| 4/22/2015 14:23:53 | 36.42 | 31.12 | 474 | 1.70 | 0.30 | 25.9 |
| 4/22/2015 14:23:53 | 36.75 | 31.45 | 486 | 1.74 | 0.29 | 26.5 |
| 4/22/2015 14:23:54 | 37.07 | 31.77 | 480 | 1.72 | 0.30 | 26.2 |
| 4/22/2015 14:23:55 | 37.40 | 32.10 | 490 | 1.71 | 0.30 | 26.8 |
| 4/22/2015 14:23:55 | 37.73 | 32.43 | 489 | 1.68 | 0.29 | 26.7 |
| 4/22/2015 14:23:57 | 38.06 | 32.76 | 483 | 1.73 | 0.29 | 26.4 |
| 4/22/2015 14:23:58 | 38.39 | 33.09 | 483 | 1.73 | 0.29 | 26.4 |
| 4/22/2015 14:23:58 | 38.71 | 33.41 | 484 | 1.72 | 0.29 | 26.5 |
| 4/22/2015 14:23:58 | 39.04 | 33.74 | 484 | 1.70 | 0.29 | 26.5 |
| 4/22/2015 14:23:59 | 39.37 | 34.07 | 484 | 1.68 | 0.30 | 26.5 |
| 4/22/2015 14:24:00 | 39.70 | 34.40 | 486 | 1.68 | 0.29 | 26.6 |
| 4/22/2015 14:24:00 | 40.03 | 34.73 | 483 | 1.74 | 0.29 | 26.4 |
| 4/22/2015 14:24:01 | 40.35 | 35.05 | 483 | 1.73 | 0.29 | 26.4 |
| 4/22/2015 14:24:02 | 40.68 | 35.38 | 486 | 1.69 | 0.29 | 26.6 |
| 4/22/2015 14:24:02 | 41.01 | 35.71 | 486 | 1.68 | 0.29 | 26.6 |
| 4/22/2015 14:24:04 | 41.34 | 36.04 | 486 | 1.71 | 0.30 | 26.6 |
| 4/22/2015 14:24:04 | 41.67 | 36.37 | 486 | 1.68 | 0.30 | 26.6 |
| 4/22/2015 14:24:05 | 41.99 | 36.69 | 483 | 1.71 | 0.30 | 26.4 |
| 4/22/2015 14:24:06 | 42.32 | 37.02 | 483 | 1.70 | 0.30 | 26.4 |
| 4/22/2015 14:24:07 | 42.65 | 37.35 | 483 | 1.69 | 0.29 | 26.4 |
| 4/22/2015 14:24:07 | 42.98 | 37.68 | 483 | 1.70 | 0.29 | 26.4 |
| 4/22/2015 14:24:08 | 43.31 | 38.01 | 483 | 1.70 | 0.30 | 26.4 |
| 4/22/2015 14:24:09 | 43.64 | 38.34 | 480 | 1.69 | 0.30 | 26.2 |
| 4/22/2015 14:24:09 | 43.96 | 38.66 | 486 | 1.74 | 0.30 | 26.6 |
| 4/22/2015 14:24:10 | 44.29 | 38.99 | 483 | 1.71 | 0.29 | 26.4 |
| 4/22/2015 14:24:11 | 44.62 | 39.32 | 480 | 1.68 | 0.30 | 26.2 |
| 4/22/2015 14:24:12 | 44.95 | 39.65 | 480 | 1.69 | 0.29 | 26.2 |
| 4/22/2015 14:24:12 | 45.28 | 39.98 | 480 | 1.72 | 0.30 | 26.2 |
| 4/22/2015 14:24:13 | 45.60 | 40.30 | 477 | 1.74 | 0.22 | 26.1 |
| 4/22/2015 14:24:14 | 45.93 | 40.63 | 467 | 1.69 | 0.30 | 25.6 |
| 4/22/2015 14:24:15 | 46.26 | 40.96 | 474 | 1.69 | 0.29 | 25.9 |
| 4/22/2015 14:24:16 | 46.59 | 41.29 | 480 | 1.70 | 0.30 | 26.2 |
| 4/22/2015 14:24:16 | 46.92 | 41.62 | 480 | 1.71 | 0.28 | 26.2 |
| 4/22/2015 14:24:17 | 47.24 | 41.94 | 480 | 1.68 | 0.29 | 26.2 |
| 4/22/2015 14:24:18 | 47.57 | 42.27 | 483 | 1.71 | 0.30 | 26.4 |
| 4/22/2015 14:24:18 | 47.90 | 42.60 | 477 | 1.71 | 0.30 | 26.1 |
| 4/22/2015 14:24:19 | 48.23 | 42.93 | 480 | 1.70 | 0.29 | 26.3 |
| 4/22/2015 14:24:20 | 48.56 | 43.26 | 483 | 1.70 | 0.30 | 26.4 |
| 4/22/2015 14:24:21 | 48.88 | 43.58 | 486 | 1.70 | 0.29 | 26.6 |
| 4/22/2015 14:24:21 | 49.21 | 43.91 | 480 | 1.66 | 0.29 | 26.2 |
| 4/22/2015 14:24:45 | 49.54 | 44.24 | 0 | 1.69 | 1.12 | 0.0 |
| 4/22/2015 14:24:53 | 49.87 | 44.57 | 35 | 1.70 | 1.17 | 1.9 |
| 4/22/2015 14:25:05 | 50.20 | 44.90 | 29 | 1.67 | 1.08 | 1.6 |
| 4/22/2015 14:25:19 | 50.53 | 45.23 | 29 | 1.66 | 1.08 | 1.6 |
| 4/22/2015 14:25:33 | 50.85 | 45.55 | 29 | 1.68 | 1.03 | 1.6 |
| 4/22/2015 14:25:46 | 51.18 | 45.88 | 26 | 1.66 | 1.07 | 1.4 |
| 4/22/2015 14:26:00 | 51.51 | 46.21 | 29 | 1.64 | 1.02 | 1.6 |
| 4/22/2015 14:26:13 | 51.84 | 46.54 | 26 | 1.68 | 1.03 | 1.4 |
| 4/22/2015 14:26:21 | 52.08 | 46.78 | 35 | 1.64 | 1.18 | 1.9 |

## F76 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/22/2015 14:21:55

**End Date:**
4/22/2015 14:27:58

**Operator Note:**
'5.3 6.0 c Auto Complete'

**Northing:**
367,766.36

**Easting:**
252,368.08

**Tide (feet):**
5.30



## Hole: F77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:38:50 | 31.17 | 30.07 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:38:50 | 31.50 | 30.40 | 1,052 | 1.66 | 1.29 | 57.5 |
| 4/22/2015 10:38:51 | 31.82 | 30.72 | 1,052 | 1.66 | 1.29 | 57.5 |
| 4/22/2015 10:38:51 | 32.15 | 31.05 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:38:51 | 32.48 | 31.38 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 10:38:52 | 32.81 | 31.71 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 10:38:52 | 33.14 | 32.04 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:38:53 | 33.46 | 32.36 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:38:53 | 33.79 | 32.69 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:38:53 | 34.12 | 33.02 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:38:54 | 34.45 | 33.35 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:38:54 | 34.78 | 33.68 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:38:54 | 35.11 | 34.01 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:38:55 | 35.43 | 34.33 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:38:55 | 35.76 | 34.66 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:38:55 | 36.09 | 34.99 | 1,052 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:38:56 | 36.42 | 35.32 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:38:56 | 36.75 | 35.65 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:38:56 | 37.07 | 35.97 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:38:57 | 37.40 | 36.30 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:38:57 | 37.73 | 36.63 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:38:57 | 38.06 | 36.96 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 10:38:58 | 38.39 | 37.29 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 10:38:58 | 38.71 | 37.61 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 10:38:58 | 39.04 | 37.94 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:38:59 | 39.37 | 38.27 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:38:59 | 39.70 | 38.60 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:38:59 | 40.03 | 38.93 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:00 | 40.35 | 39.25 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:00 | 40.68 | 39.58 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:39:00 | 41.01 | 39.91 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:39:01 | 41.34 | 40.24 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:39:01 | 41.67 | 40.57 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:39:01 | 41.99 | 40.89 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:02 | 42.32 | 41.22 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:02 | 42.65 | 41.55 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:39:02 | 42.98 | 41.88 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:03 | 43.31 | 42.21 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:03 | 43.64 | 42.54 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:39:04 | 43.96 | 42.86 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:04 | 44.29 | 43.19 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:04 | 44.62 | 43.52 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:39:05 | 44.95 | 43.85 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:05 | 45.28 | 44.18 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:05 | 45.60 | 44.50 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:39:06 | 45.93 | 44.83 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:39:06 | 46.26 | 45.16 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:39:06 | 46.59 | 45.49 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:39:07 | 46.92 | 45.82 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:39:07 | 47.24 | 46.14 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:39:07 | 47.57 | 46.47 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 10:39:08 | 47.90 | 46.80 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:39:08 | 48.23 | 47.13 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 10:39:22 | 48.56 | 47.46 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 10:39:26 | 48.88 | 47.78 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 10:39:30 | 49.21 | 48.11 | 31 | 1.66 | 1.29 | 1.7 |
| 4/22/2015 10:39:31 | 49.54 | 48.44 | 194 | 1.66 | 1.29 | 10.6 |
| 4/22/2015 10:39:32 | 49.87 | 48.77 | 342 | 1.66 | 1.29 | 18.7 |
| 4/22/2015 10:39:32 | 50.20 | 49.10 | 396 | 1.66 | 1.29 | 21.6 |
| 4/22/2015 10:39:33 | 50.53 | 49.43 | 413 | 1.66 | 1.29 | 22.6 |
| 4/22/2015 10:39:34 | 50.85 | 49.75 | 471 | 1.66 | 1.29 | 25.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:39:34 | 51.18 | 50.08 | 535 | 1.66 | 1.29 | 29.3 |
| 4/22/2015 | 10:39:35 | 51.51 | 50.41 | 582 | 1.66 | 1.29 | 31.8 |
| 4/22/2015 | 10:39:35 | 51.84 | 50.74 | 631 | 1.66 | 1.29 | 34.5 |
| 4/22/2015 | 10:39:36 | 52.17 | 51.07 | 683 | 1.66 | 1.29 | 37.4 |
| 4/22/2015 | 10:39:36 | 52.49 | 51.39 | 689 | 1.66 | 1.29 | 37.7 |
| 4/22/2015 | 10:39:37 | 52.82 | 51.72 | 663 | 1.66 | 1.29 | 36.2 |
| 4/22/2015 | 10:39:39 | 53.15 | 52.05 | 453 | 1.66 | 1.29 | 24.8 |
| 4/22/2015 | 10:39:39 | 53.48 | 52.38 | 381 | 1.66 | 1.29 | 20.8 |
| 4/22/2015 | 10:39:40 | 53.81 | 52.71 | 378 | 1.66 | 1.29 | 20.7 |
| 4/22/2015 | 10:39:41 | 54.13 | 53.03 | 411 | 1.66 | 1.29 | 22.5 |
| 4/22/2015 | 10:39:42 | 54.46 | 53.36 | 466 | 1.66 | 1.29 | 25.5 |
| 4/22/2015 | 10:39:43 | 54.79 | 53.69 | 434 | 1.66 | 1.29 | 23.7 |
| 4/22/2015 | 10:39:43 | 55.12 | 54.02 | 419 | 1.66 | 1.29 | 22.9 |
| 4/22/2015 | 10:39:44 | 55.45 | 54.35 | 407 | 1.66 | 1.29 | 22.3 |
| 4/22/2015 | 10:39:45 | 55.77 | 54.67 | 416 | 1.66 | 1.29 | 22.8 |
| 4/22/2015 | 10:39:46 | 56.10 | 55.00 | 425 | 1.66 | 1.29 | 23.2 |
| 4/22/2015 | 10:39:46 | 56.18 | 55.08 | 425 | 1.66 | 1.29 | 23.2 |

## F77 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:37:49

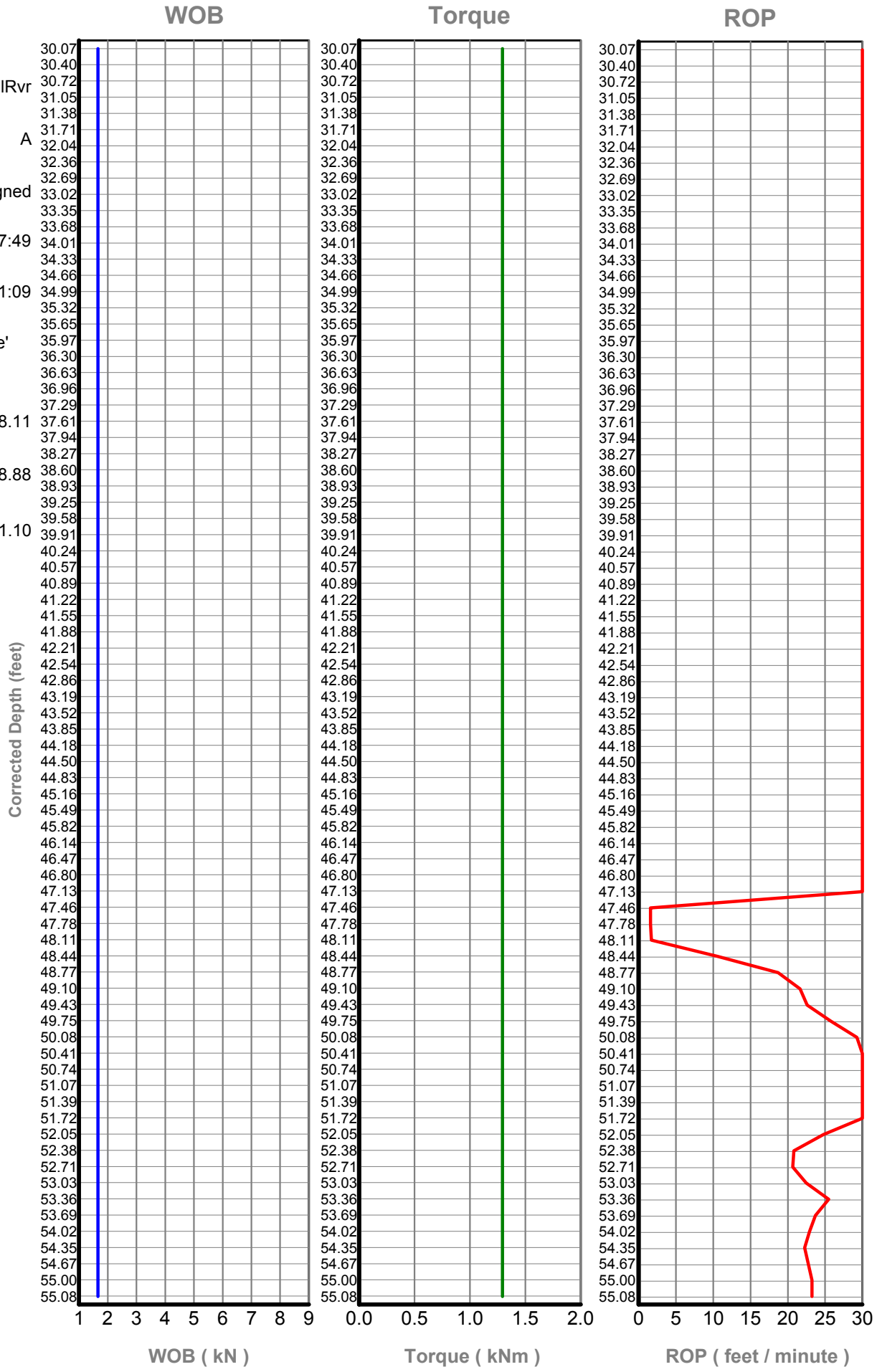
**End Date:**
4/22/2015 10:41:09

**Operator Note:**
'1.1 1.1 b Auto Complete'

**Northing:**
367,818.11

**Easting:**
252,438.88

**Tide (feet):**
1.10



## Hole: F78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:42:52 | 31.17 | 30.07 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:42:53 | 31.50 | 30.40 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:42:53 | 31.82 | 30.72 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 10:42:53 | 32.15 | 31.05 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:42:54 | 32.48 | 31.38 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:42:54 | 32.81 | 31.71 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:54 | 33.14 | 32.04 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:54 | 33.46 | 32.36 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:42:55 | 33.79 | 32.69 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:55 | 34.12 | 33.02 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:55 | 34.45 | 33.35 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:42:56 | 34.78 | 33.68 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:56 | 35.11 | 34.01 | 1,067 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:42:56 | 35.43 | 34.33 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:42:57 | 35.76 | 34.66 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:42:57 | 36.09 | 34.99 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:42:57 | 36.42 | 35.32 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 10:42:58 | 36.75 | 35.65 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:42:58 | 37.07 | 35.97 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:42:58 | 37.40 | 36.30 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 10:42:59 | 37.73 | 36.63 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:42:59 | 38.06 | 36.96 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:42:59 | 38.39 | 37.29 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:43:00 | 38.71 | 37.61 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:43:00 | 39.04 | 37.94 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:43:00 | 39.37 | 38.27 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:43:01 | 39.70 | 38.60 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:43:01 | 40.03 | 38.93 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:43:01 | 40.35 | 39.25 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:02 | 40.68 | 39.58 | 1,065 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:02 | 41.01 | 39.91 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:43:03 | 41.34 | 40.24 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:03 | 41.67 | 40.57 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:03 | 41.99 | 40.89 | 1,058 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 10:43:04 | 42.32 | 41.22 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:43:04 | 42.65 | 41.55 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 10:43:04 | 42.98 | 41.88 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:43:05 | 43.31 | 42.21 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:05 | 43.64 | 42.54 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:05 | 43.96 | 42.86 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 10:43:06 | 44.29 | 43.19 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:06 | 44.62 | 43.52 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 10:43:06 | 44.95 | 43.85 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:43:07 | 45.28 | 44.18 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 10:43:07 | 45.60 | 44.50 | 1,068 | 1.66 | 1.29 | 58.4 |
| 4/22/2015 10:43:07 | 45.93 | 44.83 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:43:08 | 46.26 | 45.16 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 10:43:19 | 46.59 | 45.49 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 10:43:24 | 46.92 | 45.82 | 61 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 10:43:28 | 47.24 | 46.14 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 10:43:32 | 47.57 | 46.47 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 10:43:38 | 47.90 | 46.80 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 10:43:42 | 48.23 | 47.13 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 10:43:45 | 48.56 | 47.46 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 10:43:50 | 48.88 | 47.78 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 10:43:55 | 49.21 | 48.11 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 10:44:14 | 49.54 | 48.44 | 32 | 1.66 | 1.29 | 1.8 |
| 4/22/2015 10:44:18 | 49.87 | 48.77 | 76 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 10:44:23 | 50.20 | 49.10 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 10:44:28 | 50.53 | 49.43 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 10:44:33 | 50.85 | 49.75 | 73 | 1.66 | 1.29 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:44:38 | 51.18 | 50.08 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 10:44:42 | 51.51 | 50.41 | 72 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 | 10:44:47 | 51.84 | 50.74 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 10:44:52 | 52.17 | 51.07 | 76 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 10:44:57 | 52.49 | 51.39 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 10:45:01 | 52.82 | 51.72 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 10:45:05 | 53.15 | 52.05 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 10:45:10 | 53.48 | 52.38 | 83 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 10:45:25 | 53.81 | 52.71 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 10:45:29 | 54.13 | 53.03 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 10:45:34 | 54.46 | 53.36 | 81 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 10:45:38 | 54.79 | 53.69 | 86 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 | 10:45:43 | 55.12 | 54.02 | 81 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 10:45:47 | 55.45 | 54.35 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 10:45:51 | 55.77 | 54.67 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 10:45:55 | 56.06 | 54.96 | 77 | 1.66 | 1.29 | 4.2 |

## F78 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/22/2015 10:41:45

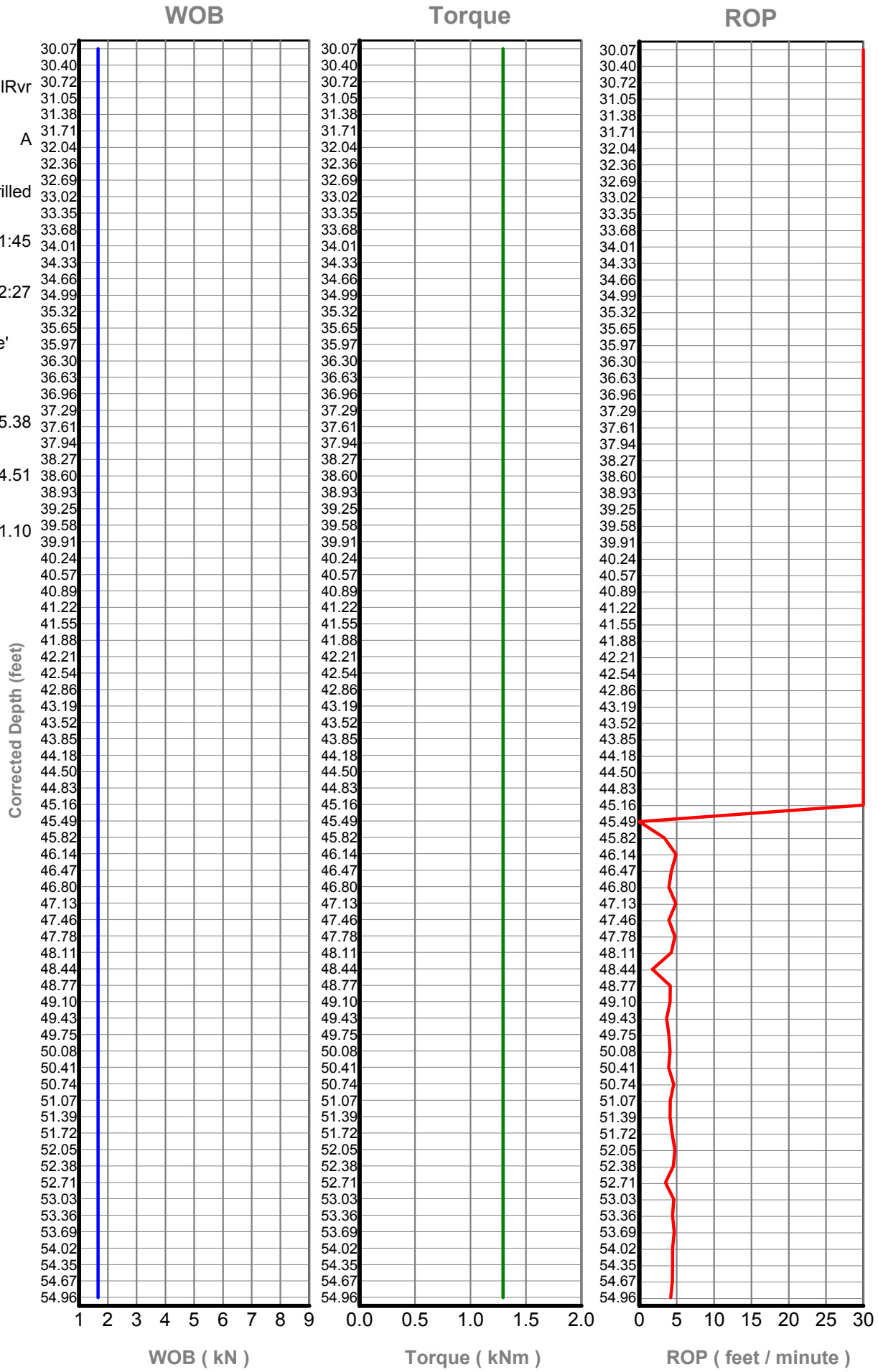
**End Date:**
4/22/2015 10:52:27

**Operator Note:**
'1.1 1.1 b Auto Complete'

**Northing:**
367,855.38

**Easting:**
252,484.51

**Tide (feet):**
1.10



## Hole: F79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:44:58 | 31.17 | 30.07 | 300 | 1.32 | 0.28 | 16.4 |
| 4/22/2015 10:44:59 | 31.50 | 30.40 | 306 | 1.28 | 0.28 | 16.7 |
| 4/22/2015 10:45:00 | 31.82 | 30.72 | 303 | 1.30 | 0.28 | 16.6 |
| 4/22/2015 10:45:01 | 32.15 | 31.05 | 294 | 1.27 | 0.28 | 16.1 |
| 4/22/2015 10:45:02 | 32.48 | 31.38 | 300 | 1.28 | 0.28 | 16.4 |
| 4/22/2015 10:45:04 | 32.81 | 31.71 | 305 | 1.29 | 0.28 | 16.7 |
| 4/22/2015 10:45:05 | 33.14 | 32.04 | 299 | 1.26 | 0.28 | 16.4 |
| 4/22/2015 10:45:06 | 33.46 | 32.36 | 297 | 1.27 | 0.28 | 16.3 |
| 4/22/2015 10:45:07 | 33.79 | 32.69 | 297 | 1.30 | 0.28 | 16.2 |
| 4/22/2015 10:45:08 | 34.12 | 33.02 | 291 | 1.34 | 0.27 | 15.9 |
| 4/22/2015 10:45:10 | 34.45 | 33.35 | 290 | 1.34 | 0.27 | 15.8 |
| 4/22/2015 10:45:11 | 34.78 | 33.68 | 282 | 1.33 | 0.27 | 15.4 |
| 4/22/2015 10:45:12 | 35.11 | 34.01 | 289 | 1.34 | 0.27 | 15.8 |
| 4/22/2015 10:45:14 | 35.43 | 34.33 | 283 | 1.32 | 0.27 | 15.5 |
| 4/22/2015 10:45:15 | 35.76 | 34.66 | 284 | 1.31 | 0.27 | 15.5 |
| 4/22/2015 10:45:16 | 36.09 | 34.99 | 283 | 1.34 | 0.28 | 15.5 |
| 4/22/2015 10:45:17 | 36.42 | 35.32 | 286 | 1.32 | 0.28 | 15.6 |
| 4/22/2015 10:45:19 | 36.75 | 35.65 | 286 | 1.30 | 0.28 | 15.6 |
| 4/22/2015 10:45:20 | 37.07 | 35.97 | 290 | 1.30 | 0.28 | 15.8 |
| 4/22/2015 10:45:21 | 37.40 | 36.30 | 289 | 1.29 | 0.28 | 15.8 |
| 4/22/2015 10:45:22 | 37.73 | 36.63 | 284 | 1.31 | 0.28 | 15.5 |
| 4/22/2015 10:45:23 | 38.06 | 36.96 | 284 | 1.32 | 0.28 | 15.5 |
| 4/22/2015 10:45:25 | 38.39 | 37.29 | 284 | 1.30 | 0.28 | 15.5 |
| 4/22/2015 10:45:26 | 38.71 | 37.61 | 289 | 1.32 | 0.28 | 15.8 |
| 4/22/2015 10:45:27 | 39.04 | 37.94 | 286 | 1.28 | 0.28 | 15.6 |
| 4/22/2015 10:45:29 | 39.37 | 38.27 | 286 | 1.30 | 0.28 | 15.6 |
| 4/22/2015 10:45:30 | 39.70 | 38.60 | 286 | 1.34 | 0.28 | 15.6 |
| 4/22/2015 10:45:31 | 40.03 | 38.93 | 283 | 1.31 | 0.29 | 15.5 |
| 4/22/2015 10:45:32 | 40.35 | 39.25 | 287 | 1.29 | 0.28 | 15.7 |
| 4/22/2015 10:45:33 | 40.68 | 39.58 | 284 | 1.31 | 0.28 | 15.5 |
| 4/22/2015 10:45:34 | 41.01 | 39.91 | 289 | 1.34 | 0.28 | 15.8 |
| 4/22/2015 10:45:36 | 41.34 | 40.24 | 286 | 1.30 | 0.28 | 15.6 |
| 4/22/2015 10:45:37 | 41.67 | 40.57 | 286 | 1.31 | 0.28 | 15.6 |
| 4/22/2015 10:45:39 | 41.99 | 40.89 | 289 | 1.32 | 0.28 | 15.8 |
| 4/22/2015 10:45:40 | 42.32 | 41.22 | 286 | 1.27 | 0.28 | 15.7 |
| 4/22/2015 10:45:41 | 42.65 | 41.55 | 286 | 1.33 | 0.28 | 15.7 |
| 4/22/2015 10:45:42 | 42.98 | 41.88 | 281 | 1.32 | 0.28 | 15.4 |
| 4/22/2015 10:45:43 | 43.31 | 42.21 | 283 | 1.30 | 0.28 | 15.5 |
| 4/22/2015 10:45:45 | 43.64 | 42.54 | 288 | 1.29 | 0.28 | 15.7 |
| 4/22/2015 10:45:46 | 43.96 | 42.86 | 286 | 1.30 | 0.28 | 15.6 |
| 4/22/2015 10:45:47 | 44.29 | 43.19 | 286 | 1.30 | 0.28 | 15.7 |
| 4/22/2015 10:45:49 | 44.62 | 43.52 | 283 | 1.33 | 0.28 | 15.5 |
| 4/22/2015 10:45:50 | 44.95 | 43.85 | 286 | 1.30 | 0.28 | 15.7 |
| 4/22/2015 10:45:51 | 45.28 | 44.18 | 287 | 1.29 | 0.28 | 15.7 |
| 4/22/2015 10:45:52 | 45.60 | 44.50 | 284 | 1.30 | 0.28 | 15.5 |
| 4/22/2015 10:45:54 | 45.93 | 44.83 | 283 | 1.31 | 0.27 | 15.5 |
| 4/22/2015 10:45:55 | 46.26 | 45.16 | 283 | 1.31 | 0.28 | 15.5 |
| 4/22/2015 10:45:56 | 46.59 | 45.49 | 287 | 1.31 | 0.28 | 15.7 |
| 4/22/2015 10:45:58 | 46.92 | 45.82 | 290 | 1.30 | 0.28 | 15.9 |
| 4/22/2015 10:45:59 | 47.24 | 46.14 | 286 | 1.27 | 0.27 | 15.7 |
| 4/22/2015 10:46:00 | 47.57 | 46.47 | 287 | 1.29 | 0.19 | 15.7 |
| 4/22/2015 10:46:01 | 47.90 | 46.80 | 282 | 1.32 | 0.28 | 15.4 |
| 4/22/2015 10:46:02 | 48.23 | 47.13 | 286 | 1.28 | 0.27 | 15.7 |
| 4/22/2015 10:46:04 | 48.56 | 47.46 | 286 | 1.30 | 0.27 | 15.7 |
| 4/22/2015 10:46:05 | 48.88 | 47.78 | 281 | 1.46 | 0.27 | 15.3 |
| 4/22/2015 10:46:21 | 49.21 | 48.11 | 116 | 1.45 | 1.11 | 6.3 |
| 4/22/2015 10:46:23 | 49.54 | 48.44 | 174 | 1.45 | 1.07 | 9.5 |
| 4/22/2015 10:46:25 | 49.87 | 48.77 | 162 | 1.61 | 1.17 | 8.9 |
| 4/22/2015 10:46:34 | 50.20 | 49.10 | 50 | 1.64 | 1.11 | 2.7 |
| 4/22/2015 10:46:42 | 50.53 | 49.43 | 81 | 1.19 | 0.91 | 4.4 |
| 4/22/2015 10:46:43 | 50.85 | 49.75 | 127 | 1.31 | 0.85 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:46:45 | 51.18 | 50.08 | 233 | 1.47 | 1.01 | 12.8 |
| 4/22/2015 | 10:46:46 | 51.51 | 50.41 | 249 | 1.33 | 0.84 | 13.6 |
| 4/22/2015 | 10:46:47 | 51.84 | 50.74 | 251 | 1.32 | 0.84 | 13.7 |
| 4/22/2015 | 10:46:49 | 52.17 | 51.07 | 263 | 1.32 | 0.85 | 14.4 |
| 4/22/2015 | 10:46:51 | 52.49 | 51.39 | 254 | 1.36 | 0.83 | 13.9 |
| 4/22/2015 | 10:46:52 | 52.82 | 51.72 | 250 | 1.34 | 0.84 | 13.7 |
| 4/22/2015 | 10:46:53 | 53.15 | 52.05 | 255 | 1.35 | 0.85 | 14.0 |
| 4/22/2015 | 10:46:55 | 53.48 | 52.38 | 249 | 1.42 | 1.06 | 13.6 |
| 4/22/2015 | 10:46:56 | 53.81 | 52.71 | 231 | 1.37 | 0.92 | 12.6 |
| 4/22/2015 | 10:46:58 | 54.13 | 53.03 | 234 | 1.36 | 0.85 | 12.8 |
| 4/22/2015 | 10:46:59 | 54.46 | 53.36 | 246 | 1.38 | 0.85 | 13.5 |
| 4/22/2015 | 10:47:01 | 54.79 | 53.69 | 254 | 1.41 | 0.88 | 13.9 |
| 4/22/2015 | 10:47:02 | 55.12 | 54.02 | 244 | 1.44 | 0.88 | 13.3 |
| 4/22/2015 | 10:47:04 | 55.45 | 54.35 | 228 | 1.45 | 1.01 | 12.4 |
| 4/22/2015 | 10:47:06 | 55.77 | 54.67 | 191 | 1.69 | 1.52 | 10.4 |
| 4/22/2015 | 10:47:12 | 56.10 | 55.00 | 90 | 1.54 | 1.20 | 4.9 |
| 4/22/2015 | 10:47:13 | 56.22 | 55.12 | 151 | 1.67 | 1.10 | 8.3 |

## F79 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:42:49

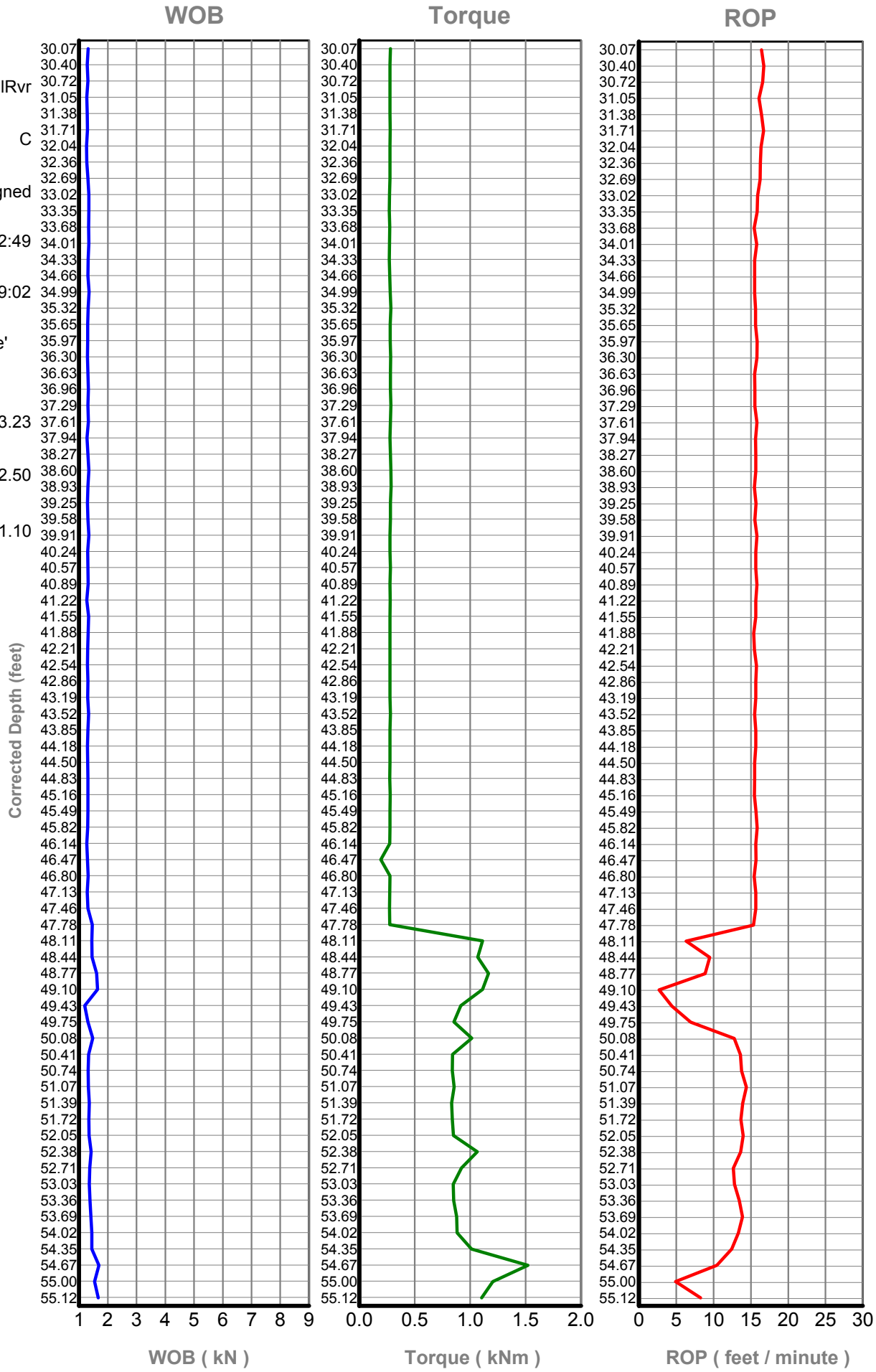
**End Date:**
4/22/2015 10:49:02

**Operator Note:**
'1.1 1.1 c Auto Complete'

**Northing:**
367,903.23

**Easting:**
252,542.50

**Tide (feet):**
1.10



## Hole: F8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:33:47 | 30.84 | 30.04 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 11:33:47 | 31.17 | 30.37 | 1,028 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 11:33:48 | 31.50 | 30.70 | 1,028 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 11:33:48 | 31.82 | 31.02 | 1,037 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 11:33:48 | 32.15 | 31.35 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:33:49 | 32.48 | 31.68 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:33:49 | 32.81 | 32.01 | 1,040 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:33:49 | 33.14 | 32.34 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:33:50 | 33.46 | 32.66 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 11:33:50 | 33.79 | 32.99 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:33:50 | 34.12 | 33.32 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:33:51 | 34.45 | 33.65 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:33:51 | 34.78 | 33.98 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:33:51 | 35.11 | 34.31 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:33:52 | 35.43 | 34.63 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 11:33:52 | 35.76 | 34.96 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:33:52 | 36.09 | 35.29 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:33:53 | 36.42 | 35.62 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:33:53 | 36.75 | 35.95 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:33:53 | 37.07 | 36.27 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:33:54 | 37.40 | 36.60 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:33:54 | 37.73 | 36.93 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:33:54 | 38.06 | 37.26 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 11:33:55 | 38.39 | 37.59 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 11:33:55 | 38.71 | 37.91 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 11:33:55 | 39.04 | 38.24 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:33:56 | 39.37 | 38.57 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:33:56 | 39.70 | 38.90 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 11:33:56 | 40.03 | 39.23 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 11:33:57 | 40.35 | 39.55 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 11:33:57 | 40.68 | 39.88 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 11:33:58 | 41.01 | 40.21 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:33:58 | 41.34 | 40.54 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:33:58 | 41.67 | 40.87 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:33:59 | 41.99 | 41.19 | 1,007 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 11:33:59 | 42.32 | 41.52 | 1,007 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 11:33:59 | 42.65 | 41.85 | 1,007 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 11:34:00 | 42.98 | 42.18 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:34:00 | 43.31 | 42.51 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 11:34:00 | 43.64 | 42.84 | 1,014 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 11:34:01 | 43.96 | 43.16 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:34:01 | 44.29 | 43.49 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 11:34:01 | 44.62 | 43.82 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 11:34:02 | 44.95 | 44.15 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:34:02 | 45.28 | 44.48 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:34:02 | 45.60 | 44.80 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:34:03 | 45.93 | 45.13 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 11:34:12 | 46.26 | 45.46 | 1 | 1.66 | 1.29 | 0.1 |
| 4/22/2015 11:34:19 | 46.59 | 45.79 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 11:34:19 | 46.92 | 46.12 | 140 | 1.66 | 1.29 | 7.6 |
| 4/22/2015 11:34:23 | 47.24 | 46.44 | 102 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 11:34:24 | 47.57 | 46.77 | 203 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 11:34:25 | 47.90 | 47.10 | 299 | 1.66 | 1.29 | 16.4 |
| 4/22/2015 11:34:47 | 48.23 | 47.43 | 37 | 1.66 | 1.29 | 2.0 |
| 4/22/2015 11:34:49 | 48.56 | 47.76 | 194 | 1.66 | 1.29 | 10.6 |
| 4/22/2015 11:34:50 | 48.88 | 48.08 | 267 | 1.66 | 1.29 | 14.6 |
| 4/22/2015 11:34:56 | 49.21 | 48.41 | 41 | 1.66 | 1.29 | 2.2 |
| 4/22/2015 11:34:58 | 49.54 | 48.74 | 152 | 1.66 | 1.29 | 8.3 |
| 4/22/2015 11:35:00 | 49.87 | 49.07 | 229 | 1.66 | 1.29 | 12.5 |
| 4/22/2015 11:35:01 | 50.20 | 49.40 | 226 | 1.66 | 1.29 | 12.3 |
| 4/22/2015 11:35:03 | 50.53 | 49.73 | 176 | 1.66 | 1.29 | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:35:05 | 50.85 | 50.05 | 181 | 1.66 | 1.29 | 9.9 |
| 4/22/2015 | 11:35:06 | 51.18 | 50.38 | 214 | 1.66 | 1.29 | 11.7 |
| 4/22/2015 | 11:35:08 | 51.51 | 50.71 | 257 | 1.66 | 1.29 | 14.0 |
| 4/22/2015 | 11:35:08 | 51.84 | 51.04 | 257 | 1.66 | 1.29 | 14.0 |
| 4/22/2015 | 11:35:09 | 52.17 | 51.37 | 357 | 1.66 | 1.29 | 19.5 |
| 4/22/2015 | 11:35:10 | 52.49 | 51.69 | 407 | 1.66 | 1.29 | 22.3 |
| 4/22/2015 | 11:35:11 | 52.82 | 52.02 | 470 | 1.66 | 1.29 | 25.7 |
| 4/22/2015 | 11:35:11 | 53.15 | 52.35 | 470 | 1.66 | 1.29 | 25.7 |
| 4/22/2015 | 11:35:12 | 53.48 | 52.68 | 444 | 1.66 | 1.29 | 24.3 |
| 4/22/2015 | 11:35:16 | 53.81 | 53.01 | 74 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 11:35:18 | 54.13 | 53.33 | 128 | 1.66 | 1.29 | 7.0 |
| 4/22/2015 | 11:35:20 | 54.46 | 53.66 | 178 | 1.66 | 1.29 | 9.7 |
| 4/22/2015 | 11:35:23 | 54.79 | 53.99 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 | 11:35:26 | 55.12 | 54.32 | 114 | 1.66 | 1.29 | 6.3 |
| 4/22/2015 | 11:35:29 | 55.45 | 54.65 | 101 | 1.66 | 1.29 | 5.5 |
| 4/22/2015 | 11:35:34 | 55.77 | 54.97 | 78 | 1.66 | 1.29 | 4.3 |

## F8 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:31:45

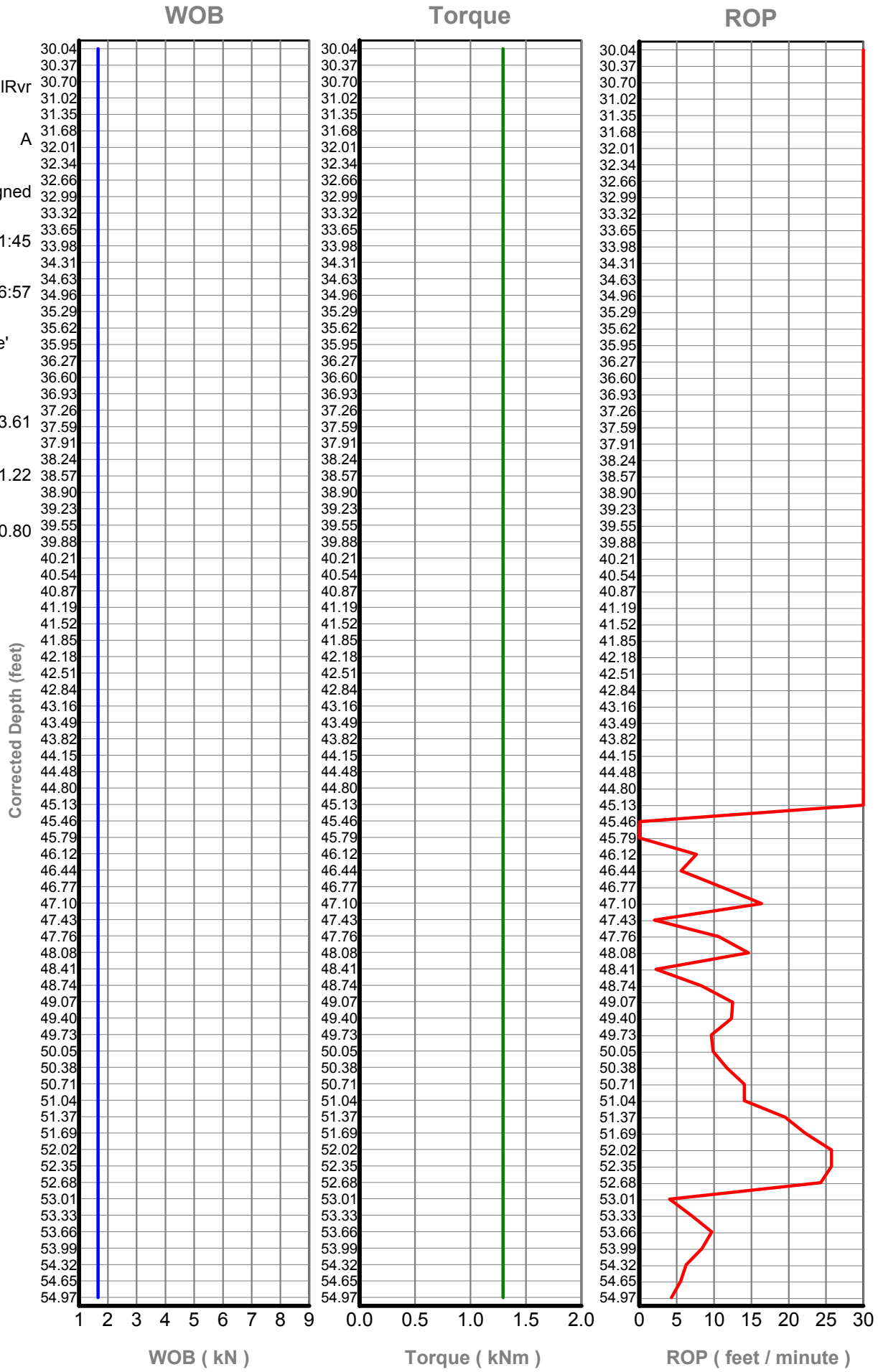
**End Date:**
4/22/2015 11:36:57

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
367,963.61

**Easting:**
252,021.22

**Tide (feet):**
0.80



## Hole: F80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:42:23 | 32.15 | 30.25 | 920 | 0.43 | 0.32 | 50.3 |
| 4/23/2015 9:42:24 | 32.48 | 30.58 | 920 | 0.43 | 0.32 | 50.3 |
| 4/23/2015 9:42:24 | 32.81 | 30.91 | 920 | 0.43 | 0.33 | 50.3 |
| 4/23/2015 9:42:24 | 33.14 | 31.24 | 906 | 0.43 | 0.33 | 49.6 |
| 4/23/2015 9:42:25 | 33.46 | 31.56 | 880 | 0.43 | 0.33 | 48.1 |
| 4/23/2015 9:42:25 | 33.79 | 31.89 | 880 | 0.43 | 0.33 | 48.1 |
| 4/23/2015 9:42:25 | 34.12 | 32.22 | 880 | 0.43 | 0.33 | 48.1 |
| 4/23/2015 9:42:26 | 34.45 | 32.55 | 921 | 0.43 | 0.32 | 50.3 |
| 4/23/2015 9:42:26 | 34.78 | 32.88 | 909 | 0.43 | 0.33 | 49.7 |
| 4/23/2015 9:42:27 | 35.11 | 33.21 | 909 | 0.43 | 0.33 | 49.7 |
| 4/23/2015 9:42:27 | 35.43 | 33.53 | 923 | 0.42 | 0.33 | 50.4 |
| 4/23/2015 9:42:28 | 35.76 | 33.86 | 908 | 0.43 | 0.33 | 49.7 |
| 4/23/2015 9:42:28 | 36.09 | 34.19 | 908 | 0.42 | 0.33 | 49.7 |
| 4/23/2015 9:42:29 | 36.42 | 34.52 | 908 | 0.42 | 0.33 | 49.7 |
| 4/23/2015 9:42:29 | 36.75 | 34.85 | 917 | 0.42 | 0.32 | 50.2 |
| 4/23/2015 9:42:29 | 37.07 | 35.17 | 909 | 0.41 | 0.33 | 49.7 |
| 4/23/2015 9:42:30 | 37.40 | 35.50 | 909 | 0.41 | 0.32 | 49.7 |
| 4/23/2015 9:42:30 | 37.73 | 35.83 | 909 | 0.41 | 0.32 | 49.7 |
| 4/23/2015 9:42:30 | 38.06 | 36.16 | 918 | 0.42 | 0.33 | 50.2 |
| 4/23/2015 9:42:31 | 38.39 | 36.49 | 915 | 0.41 | 0.32 | 50.0 |
| 4/23/2015 9:42:31 | 38.71 | 36.81 | 904 | 0.41 | 0.32 | 49.4 |
| 4/23/2015 9:42:32 | 39.04 | 37.14 | 904 | 0.41 | 0.32 | 49.4 |
| 4/23/2015 9:42:32 | 39.37 | 37.47 | 904 | 0.41 | 0.32 | 49.4 |
| 4/23/2015 9:42:32 | 39.70 | 37.80 | 929 | 0.40 | 0.32 | 50.8 |
| 4/23/2015 9:42:33 | 40.03 | 38.13 | 929 | 0.40 | 0.32 | 50.8 |
| 4/23/2015 9:42:33 | 40.35 | 38.45 | 920 | 0.41 | 0.32 | 50.3 |
| 4/23/2015 9:42:33 | 40.68 | 38.78 | 910 | 0.40 | 0.32 | 49.8 |
| 4/23/2015 9:42:34 | 41.01 | 39.11 | 921 | 0.39 | 0.33 | 50.4 |
| 4/23/2015 9:42:34 | 41.34 | 39.44 | 921 | 0.39 | 0.33 | 50.4 |
| 4/23/2015 9:42:34 | 41.67 | 39.77 | 945 | 0.24 | 0.32 | 51.7 |
| 4/23/2015 9:42:35 | 41.99 | 40.09 | 931 | 0.31 | 0.32 | 50.9 |
| 4/23/2015 9:42:35 | 42.32 | 40.42 | 940 | 0.31 | 0.32 | 51.4 |
| 4/23/2015 9:42:36 | 42.65 | 40.75 | 940 | 0.31 | 0.32 | 51.4 |
| 4/23/2015 9:42:36 | 42.98 | 41.08 | 963 | 0.31 | 0.32 | 52.6 |
| 4/23/2015 9:42:36 | 43.31 | 41.41 | 963 | 0.30 | 0.32 | 52.7 |
| 4/23/2015 9:42:37 | 43.64 | 41.74 | 963 | 0.30 | 0.32 | 52.7 |
| 4/23/2015 9:42:37 | 43.96 | 42.06 | 969 | 0.30 | 0.31 | 53.0 |
| 4/23/2015 9:42:37 | 44.29 | 42.39 | 986 | 0.31 | 0.31 | 53.9 |
| 4/23/2015 9:42:38 | 44.62 | 42.72 | 986 | 0.31 | 0.31 | 53.9 |
| 4/23/2015 9:42:38 | 44.95 | 43.05 | 989 | 0.31 | 0.31 | 54.1 |
| 4/23/2015 9:42:39 | 45.28 | 43.38 | 989 | 0.31 | 0.31 | 54.1 |
| 4/23/2015 9:42:39 | 45.60 | 43.70 | 989 | 0.31 | 0.31 | 54.1 |
| 4/23/2015 9:42:39 | 45.93 | 44.03 | 992 | 0.31 | 0.32 | 54.2 |
| 4/23/2015 9:42:40 | 46.26 | 44.36 | 995 | 0.31 | 0.32 | 54.4 |
| 4/23/2015 9:42:40 | 46.59 | 44.69 | 986 | 0.31 | 0.32 | 53.9 |
| 4/23/2015 9:42:41 | 46.92 | 45.02 | 986 | 0.31 | 0.32 | 53.9 |
| 4/23/2015 9:42:41 | 47.24 | 45.34 | 986 | 0.31 | 0.31 | 53.9 |
| 4/23/2015 9:42:41 | 47.57 | 45.67 | 980 | 0.31 | 0.32 | 53.6 |
| 4/23/2015 9:42:42 | 47.90 | 46.00 | 980 | 0.31 | 0.32 | 53.6 |
| 4/23/2015 9:42:42 | 48.23 | 46.33 | 986 | 0.31 | 0.32 | 53.9 |
| 4/23/2015 9:42:42 | 48.56 | 46.66 | 980 | 0.30 | 0.33 | 53.6 |
| 4/23/2015 9:42:43 | 48.88 | 46.98 | 954 | 0.31 | 0.33 | 52.1 |
| 4/23/2015 9:42:53 | 49.21 | 47.31 | 0 | 2.00 | 0.33 | 0.0 |
| 4/23/2015 9:42:53 | 49.54 | 47.64 | 0 | 2.03 | 0.33 | 0.0 |
| 4/23/2015 9:42:54 | 49.87 | 47.97 | 0 | 2.03 | 0.33 | 0.0 |
| 4/23/2015 9:42:54 | 50.20 | 48.30 | 160 | 1.98 | 0.33 | 8.8 |
| 4/23/2015 9:42:54 | 50.53 | 48.63 | 160 | 2.02 | 0.33 | 8.8 |
| 4/23/2015 9:42:55 | 50.85 | 48.95 | 333 | 2.04 | 0.33 | 18.2 |
| 4/23/2015 9:42:55 | 51.18 | 49.28 | 493 | 2.04 | 0.33 | 27.0 |
| 4/23/2015 9:42:56 | 51.51 | 49.61 | 650 | 2.07 | 0.33 | 35.6 |
| 4/23/2015 9:42:56 | 51.84 | 49.94 | 805 | 2.06 | 0.33 | 44.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:42:57 | 52.17 | 50.27 | 805 | 2.06 | 0.33 | 44.0 |
| 4/23/2015 | 9:42:57 | 52.49 | 50.59 | 797 | 2.11 | 0.34 | 43.6 |
| 4/23/2015 | 9:42:57 | 52.82 | 50.92 | 754 | 2.09 | 0.34 | 41.3 |
| 4/23/2015 | 9:42:58 | 53.15 | 51.25 | 754 | 2.08 | 0.33 | 41.3 |
| 4/23/2015 | 9:42:59 | 53.48 | 51.58 | 752 | 2.14 | 0.34 | 41.1 |
| 4/23/2015 | 9:42:59 | 53.81 | 51.91 | 733 | 2.17 | 0.34 | 40.1 |
| 4/23/2015 | 9:43:00 | 54.13 | 52.23 | 724 | 2.16 | 0.34 | 39.6 |
| 4/23/2015 | 9:43:00 | 54.46 | 52.56 | 717 | 2.04 | 0.34 | 39.2 |
| 4/23/2015 | 9:43:01 | 54.79 | 52.89 | 743 | 2.06 | 0.34 | 40.6 |
| 4/23/2015 | 9:43:01 | 55.12 | 53.22 | 734 | 2.12 | 0.34 | 40.2 |
| 4/23/2015 | 9:43:02 | 55.45 | 53.55 | 721 | 2.50 | 0.36 | 39.4 |
| 4/23/2015 | 9:43:03 | 55.77 | 53.87 | 654 | 2.94 | 0.39 | 35.8 |
| 4/23/2015 | 9:43:06 | 56.10 | 54.20 | 105 | 2.92 | 0.35 | 5.7 |
| 4/23/2015 | 9:43:07 | 56.43 | 54.53 | 164 | 2.44 | 0.34 | 9.0 |
| 4/23/2015 | 9:43:08 | 56.76 | 54.86 | 279 | 2.21 | 0.35 | 15.3 |
| 4/23/2015 | 9:43:08 | 57.09 | 55.19 | 377 | 2.29 | 0.36 | 20.6 |
| 4/23/2015 | 9:43:09 | 57.41 | 55.51 | 377 | 2.43 | 0.37 | 20.6 |
| 4/23/2015 | 9:43:09 | 57.65 | 55.75 | 460 | 2.77 | 0.38 | 25.2 |

## F80 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:41:17

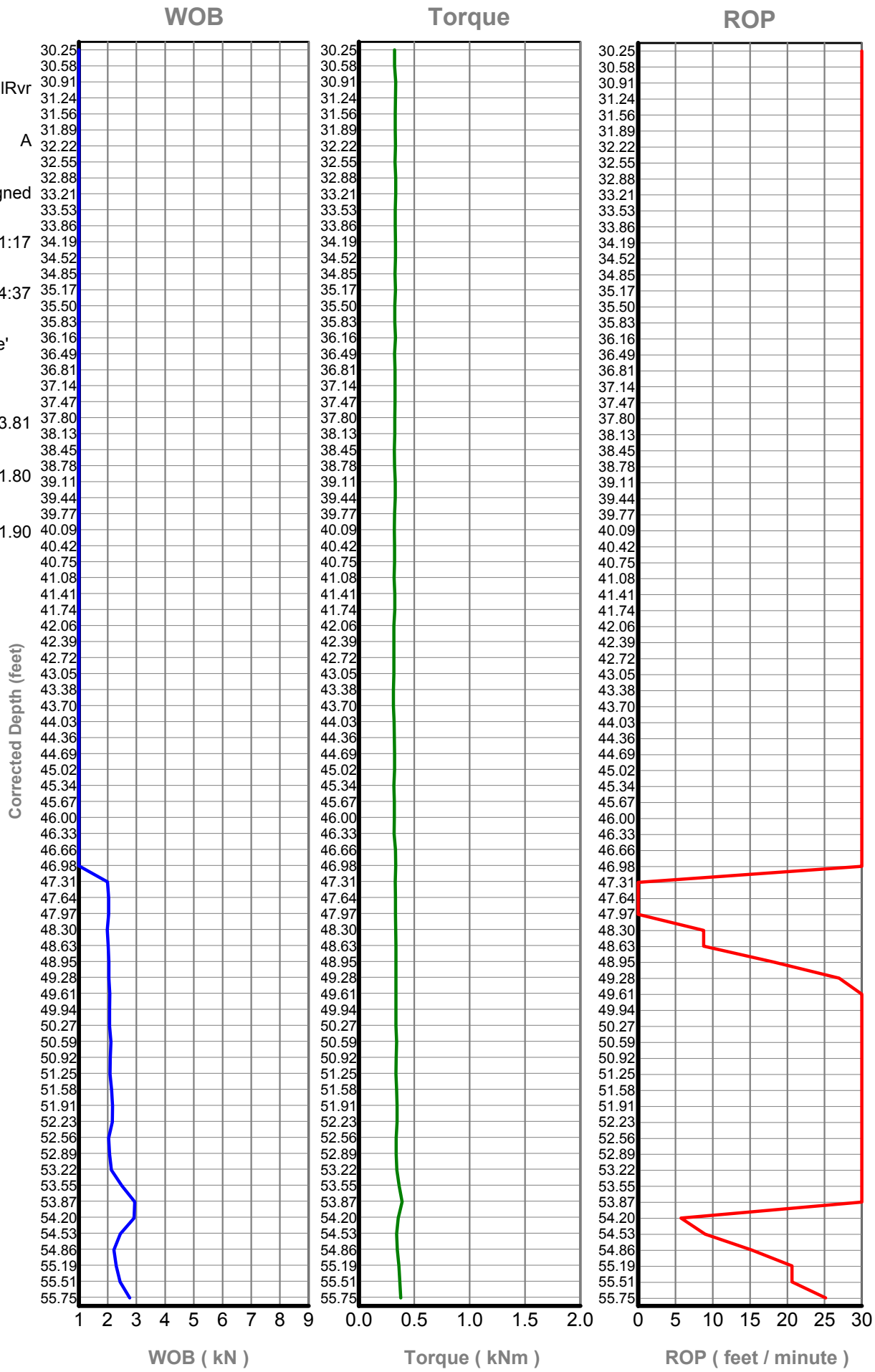
**End Date:**
4/23/2015 9:44:37

**Operator Note:**
'1.9 2.3 b Auto Complete'

**Northing:**
367,543.81

**Easting:**
251,501.80

**Tide (feet):**
1.90



## Hole: F81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 9:38:30 | 32.15 | 30.15 | 888 | 0.40 | 0.33 | 48.6 |
| 4/23/2015 9:38:31 | 32.48 | 30.48 | 862 | 0.40 | 0.30 | 47.2 |
| 4/23/2015 9:38:31 | 32.81 | 30.81 | 871 | 0.40 | 0.34 | 47.6 |
| 4/23/2015 9:38:32 | 33.14 | 31.14 | 871 | 0.40 | 0.34 | 47.6 |
| 4/23/2015 9:38:32 | 33.46 | 31.46 | 876 | 0.40 | 0.33 | 47.9 |
| 4/23/2015 9:38:32 | 33.79 | 31.79 | 876 | 0.41 | 0.33 | 47.9 |
| 4/23/2015 9:38:33 | 34.12 | 32.12 | 892 | 0.41 | 0.34 | 48.8 |
| 4/23/2015 9:38:33 | 34.45 | 32.45 | 882 | 0.41 | 0.33 | 48.3 |
| 4/23/2015 9:38:34 | 34.78 | 32.78 | 882 | 0.41 | 0.33 | 48.3 |
| 4/23/2015 9:38:34 | 35.11 | 33.11 | 900 | 0.40 | 0.33 | 49.2 |
| 4/23/2015 9:38:34 | 35.43 | 33.43 | 886 | 0.41 | 0.33 | 48.4 |
| 4/23/2015 9:38:35 | 35.76 | 33.76 | 894 | 0.16 | 0.32 | 48.9 |
| 4/23/2015 9:38:35 | 36.09 | 34.09 | 894 | 0.16 | 0.32 | 48.9 |
| 4/23/2015 9:38:35 | 36.42 | 34.42 | 890 | 0.31 | 0.32 | 48.7 |
| 4/23/2015 9:38:36 | 36.75 | 34.75 | 902 | 0.30 | 0.33 | 49.3 |
| 4/23/2015 9:38:36 | 37.07 | 35.07 | 908 | 0.32 | 0.33 | 49.6 |
| 4/23/2015 9:38:37 | 37.40 | 35.40 | 908 | 0.32 | 0.33 | 49.6 |
| 4/23/2015 9:38:37 | 37.73 | 35.73 | 919 | 0.29 | 0.32 | 50.3 |
| 4/23/2015 9:38:37 | 38.06 | 36.06 | 925 | 0.29 | 0.32 | 50.6 |
| 4/23/2015 9:38:38 | 38.39 | 36.39 | 925 | 0.29 | 0.32 | 50.6 |
| 4/23/2015 9:38:38 | 38.71 | 36.71 | 942 | 0.29 | 0.32 | 51.5 |
| 4/23/2015 9:38:39 | 39.04 | 37.04 | 945 | 0.29 | 0.32 | 51.7 |
| 4/23/2015 9:38:39 | 39.37 | 37.37 | 951 | 0.29 | 0.32 | 52.0 |
| 4/23/2015 9:38:40 | 39.70 | 37.70 | 951 | 0.29 | 0.32 | 52.0 |
| 4/23/2015 9:38:40 | 40.03 | 38.03 | 957 | 0.31 | 0.33 | 52.3 |
| 4/23/2015 9:38:40 | 40.35 | 38.35 | 971 | 0.29 | 0.32 | 53.1 |
| 4/23/2015 9:38:41 | 40.68 | 38.68 | 971 | 0.29 | 0.32 | 53.1 |
| 4/23/2015 9:38:41 | 41.01 | 39.01 | 966 | 0.29 | 0.32 | 52.8 |
| 4/23/2015 9:38:41 | 41.34 | 39.34 | 960 | 0.29 | 0.32 | 52.5 |
| 4/23/2015 9:38:42 | 41.67 | 39.67 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:38:42 | 41.99 | 39.99 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:38:42 | 42.32 | 40.32 | 963 | 0.35 | 0.32 | 52.6 |
| 4/23/2015 9:38:43 | 42.65 | 40.65 | 954 | 0.31 | 0.32 | 52.2 |
| 4/23/2015 9:38:43 | 42.98 | 40.98 | 954 | 0.31 | 0.32 | 52.2 |
| 4/23/2015 9:38:43 | 43.31 | 41.31 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 9:38:44 | 43.64 | 41.64 | 960 | 0.29 | 0.32 | 52.5 |
| 4/23/2015 9:38:44 | 43.96 | 41.96 | 969 | 0.29 | 0.32 | 53.0 |
| 4/23/2015 9:38:45 | 44.29 | 42.29 | 969 | 0.29 | 0.32 | 53.0 |
| 4/23/2015 9:38:45 | 44.62 | 42.62 | 963 | 0.29 | 0.32 | 52.6 |
| 4/23/2015 9:38:45 | 44.95 | 42.95 | 971 | 0.30 | 0.32 | 53.1 |
| 4/23/2015 9:38:46 | 45.28 | 43.28 | 971 | 0.30 | 0.32 | 53.1 |
| 4/23/2015 9:38:46 | 45.60 | 43.60 | 971 | 0.30 | 0.32 | 53.1 |
| 4/23/2015 9:38:46 | 45.93 | 43.93 | 974 | 0.31 | 0.32 | 53.3 |
| 4/23/2015 9:38:47 | 46.26 | 44.26 | 960 | 0.30 | 0.32 | 52.5 |
| 4/23/2015 9:38:47 | 46.59 | 44.59 | 960 | 0.30 | 0.32 | 52.5 |
| 4/23/2015 9:38:47 | 46.92 | 44.92 | 963 | 0.31 | 0.32 | 52.6 |
| 4/23/2015 9:38:48 | 47.24 | 45.24 | 943 | 0.31 | 0.32 | 51.6 |
| 4/23/2015 9:38:48 | 47.57 | 45.57 | 943 | 0.31 | 0.32 | 51.6 |
| 4/23/2015 9:38:49 | 47.90 | 45.90 | 943 | 0.29 | 0.32 | 51.6 |
| 4/23/2015 9:38:49 | 48.23 | 46.23 | 945 | 0.29 | 0.32 | 51.7 |
| 4/23/2015 9:38:50 | 48.56 | 46.56 | 936 | 0.28 | 0.38 | 51.2 |
| 4/23/2015 9:39:02 | 48.88 | 46.88 | 22 | 4.05 | 0.38 | 1.2 |
| 4/23/2015 9:39:03 | 49.21 | 47.21 | 141 | 3.50 | 0.35 | 7.7 |
| 4/23/2015 9:39:03 | 49.54 | 47.54 | 141 | 2.67 | 0.34 | 7.7 |
| 4/23/2015 9:39:04 | 49.87 | 47.87 | 282 | 3.09 | 0.35 | 15.4 |
| 4/23/2015 9:39:04 | 50.20 | 48.20 | 419 | 3.03 | 0.35 | 22.9 |
| 4/23/2015 9:39:05 | 50.53 | 48.53 | 534 | 3.07 | 0.35 | 29.2 |
| 4/23/2015 9:39:05 | 50.85 | 48.85 | 616 | 3.35 | 0.35 | 33.7 |
| 4/23/2015 9:39:06 | 51.18 | 49.18 | 658 | 2.80 | 0.35 | 36.0 |
| 4/23/2015 9:39:06 | 51.51 | 49.51 | 645 | 2.93 | 0.36 | 35.2 |
| 4/23/2015 9:39:07 | 51.84 | 49.84 | 596 | 4.46 | 0.37 | 32.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 9:39:08 | 52.17 | 50.17 | 549 | 3.26 | 0.36 | 30.0 |
| 4/23/2015 | 9:39:08 | 52.49 | 50.49 | 549 | 3.27 | 0.44 | 30.0 |
| 4/23/2015 | 9:39:09 | 52.82 | 50.82 | 537 | 3.98 | 0.36 | 29.4 |
| 4/23/2015 | 9:39:10 | 53.15 | 51.15 | 511 | 5.55 | 0.37 | 27.9 |
| 4/23/2015 | 9:39:13 | 53.48 | 51.48 | 335 | 5.34 | 0.39 | 18.3 |
| 4/23/2015 | 9:39:15 | 53.81 | 51.81 | 152 | 4.39 | 0.38 | 8.3 |
| 4/23/2015 | 9:39:16 | 54.13 | 52.13 | 179 | 3.13 | 0.36 | 9.8 |
| 4/23/2015 | 9:39:17 | 54.46 | 52.46 | 291 | 4.28 | 0.36 | 15.9 |
| 4/23/2015 | 9:39:17 | 54.79 | 52.79 | 346 | 3.07 | 0.36 | 18.9 |
| 4/23/2015 | 9:39:18 | 55.12 | 53.12 | 419 | 2.96 | 0.36 | 22.9 |
| 4/23/2015 | 9:39:18 | 55.45 | 53.45 | 419 | 2.91 | 0.35 | 22.9 |
| 4/23/2015 | 9:39:19 | 55.77 | 53.77 | 495 | 3.05 | 0.37 | 27.1 |
| 4/23/2015 | 9:39:21 | 56.10 | 54.10 | 436 | 3.15 | 0.37 | 23.9 |
| 4/23/2015 | 9:39:22 | 56.43 | 54.43 | 379 | 3.18 | 0.37 | 20.7 |
| 4/23/2015 | 9:39:23 | 56.76 | 54.76 | 362 | 3.45 | 0.37 | 19.8 |
| 4/23/2015 | 9:39:24 | 57.09 | 55.09 | 286 | 3.80 | 0.38 | 15.6 |
| 4/23/2015 | 9:39:27 | 57.28 | 55.28 | 94 | 3.75 | 0.40 | 5.2 |

## F81 - Summary

**Pattern Number:**
AreaF-G_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 9:36:32

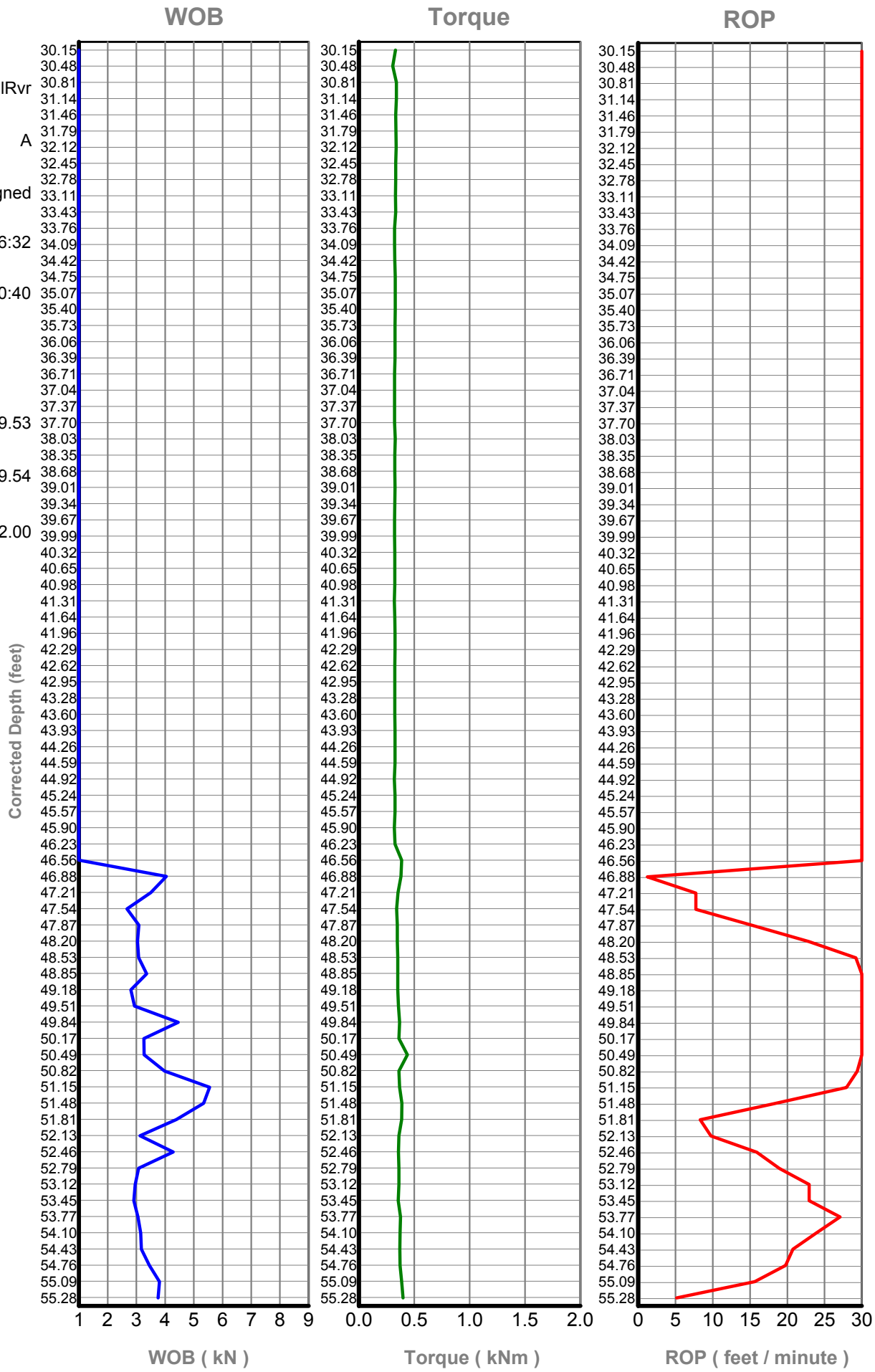
**End Date:**
4/23/2015 9:40:40

**Operator Note:**
'2 2.3 b Auto Complete'

**Northing:**
367,579.53

**Easting:**
251,549.54

**Tide (feet):**
2.00



## Hole: F9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:38:45 | 30.84 | 30.04 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 11:38:46 | 31.17 | 30.37 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 11:38:46 | 31.50 | 30.70 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 11:38:46 | 31.82 | 31.02 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 11:38:47 | 32.15 | 31.35 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 11:38:47 | 32.48 | 31.68 | 1,057 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 11:38:47 | 32.81 | 32.01 | 1,057 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 11:38:48 | 33.14 | 32.34 | 1,060 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 11:38:48 | 33.46 | 32.66 | 1,066 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 11:38:49 | 33.79 | 32.99 | 1,066 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 11:38:49 | 34.12 | 33.32 | 1,088 | 1.66 | 1.29 | 59.5 |
| 4/22/2015 11:38:49 | 34.45 | 33.65 | 1,090 | 1.66 | 1.29 | 59.6 |
| 4/22/2015 11:38:50 | 34.78 | 33.98 | 1,090 | 1.66 | 1.29 | 59.6 |
| 4/22/2015 11:38:50 | 35.11 | 34.31 | 1,087 | 1.66 | 1.29 | 59.5 |
| 4/22/2015 11:39:16 | 35.43 | 34.63 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 11:40:47 | 35.76 | 34.96 | 50 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 11:40:47 | 36.09 | 35.29 | 230 | 1.66 | 1.29 | 12.6 |
| 4/22/2015 11:40:48 | 36.42 | 35.62 | 230 | 1.66 | 1.29 | 12.6 |
| 4/22/2015 11:40:48 | 36.75 | 35.95 | 427 | 1.66 | 1.29 | 23.4 |
| 4/22/2015 11:40:48 | 37.07 | 36.27 | 621 | 1.66 | 1.29 | 34.0 |
| 4/22/2015 11:40:49 | 37.40 | 36.60 | 621 | 1.66 | 1.29 | 34.0 |
| 4/22/2015 11:40:49 | 37.73 | 36.93 | 816 | 1.66 | 1.29 | 44.6 |
| 4/22/2015 11:40:49 | 38.06 | 37.26 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 11:40:50 | 38.39 | 37.59 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 11:40:50 | 38.71 | 37.91 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 11:40:50 | 39.04 | 38.24 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 11:40:51 | 39.37 | 38.57 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 11:40:51 | 39.70 | 38.90 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 11:40:51 | 40.03 | 39.23 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 11:40:52 | 40.35 | 39.55 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 11:40:52 | 40.68 | 39.88 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 11:40:52 | 41.01 | 40.21 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 11:40:53 | 41.34 | 40.54 | 968 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 11:40:53 | 41.67 | 40.87 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 11:40:54 | 41.99 | 41.19 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 11:40:54 | 42.32 | 41.52 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 11:40:55 | 42.65 | 41.85 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 11:40:55 | 42.98 | 42.18 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 11:40:55 | 43.31 | 42.51 | 961 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 11:40:56 | 43.64 | 42.84 | 961 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 11:40:56 | 43.96 | 43.16 | 961 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 11:40:56 | 44.29 | 43.49 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 11:40:57 | 44.62 | 43.82 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 11:40:57 | 44.95 | 44.15 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 11:40:58 | 45.28 | 44.48 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 11:40:58 | 45.60 | 44.80 | 979 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 11:40:58 | 45.93 | 45.13 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 11:41:19 | 46.26 | 45.46 | 113 | 1.66 | 1.29 | 6.2 |
| 4/22/2015 11:41:20 | 46.59 | 45.79 | 236 | 1.66 | 1.29 | 12.9 |
| 4/22/2015 11:41:21 | 46.92 | 46.12 | 332 | 1.66 | 1.29 | 18.1 |
| 4/22/2015 11:41:24 | 47.24 | 46.44 | 132 | 1.66 | 1.29 | 7.2 |
| 4/22/2015 11:41:24 | 47.57 | 46.77 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 11:41:25 | 47.90 | 47.10 | 301 | 1.66 | 1.29 | 16.4 |
| 4/22/2015 11:41:26 | 48.23 | 47.43 | 369 | 1.66 | 1.29 | 20.2 |
| 4/22/2015 11:41:38 | 48.56 | 47.76 | 121 | 1.66 | 1.29 | 6.6 |
| 4/22/2015 11:41:39 | 48.88 | 48.08 | 203 | 1.66 | 1.29 | 11.1 |
| 4/22/2015 11:41:40 | 49.21 | 48.41 | 354 | 1.66 | 1.29 | 19.4 |
| 4/22/2015 11:41:41 | 49.54 | 48.74 | 382 | 1.66 | 1.29 | 20.9 |
| 4/22/2015 11:41:43 | 49.87 | 49.07 | 311 | 1.66 | 1.29 | 17.0 |
| 4/22/2015 11:41:44 | 50.20 | 49.40 | 237 | 1.66 | 1.29 | 13.0 |
| 4/22/2015 11:42:17 | 50.53 | 49.73 | 64 | 1.66 | 1.29 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:42:19 | 50.85 | 50.05 | 198 | 1.66 | 1.29 | 10.8 |
| 4/22/2015 | 11:42:20 | 51.18 | 50.38 | 264 | 1.66 | 1.29 | 14.5 |
| 4/22/2015 | 11:42:21 | 51.51 | 50.71 | 271 | 1.66 | 1.29 | 14.8 |
| 4/22/2015 | 11:42:22 | 51.84 | 51.04 | 321 | 1.66 | 1.29 | 17.5 |
| 4/22/2015 | 11:42:23 | 52.17 | 51.37 | 324 | 1.66 | 1.29 | 17.7 |
| 4/22/2015 | 11:42:26 | 52.49 | 51.69 | 217 | 1.66 | 1.29 | 11.9 |
| 4/22/2015 | 11:42:27 | 52.82 | 52.02 | 192 | 1.66 | 1.29 | 10.5 |
| 4/22/2015 | 11:42:29 | 53.15 | 52.35 | 205 | 1.66 | 1.29 | 11.2 |
| 4/22/2015 | 11:42:31 | 53.48 | 52.68 | 215 | 1.66 | 1.29 | 11.8 |
| 4/22/2015 | 11:42:33 | 53.81 | 53.01 | 140 | 1.66 | 1.29 | 7.6 |
| 4/22/2015 | 11:42:37 | 54.13 | 53.33 | 109 | 1.66 | 1.29 | 6.0 |
| 4/22/2015 | 11:42:40 | 54.46 | 53.66 | 112 | 1.66 | 1.29 | 6.1 |
| 4/22/2015 | 11:42:43 | 54.79 | 53.99 | 126 | 1.66 | 1.29 | 6.9 |
| 4/22/2015 | 11:42:46 | 55.12 | 54.32 | 127 | 1.66 | 1.29 | 7.0 |
| 4/22/2015 | 11:42:49 | 55.45 | 54.65 | 132 | 1.66 | 1.29 | 7.2 |
| 4/22/2015 | 11:42:51 | 55.77 | 54.97 | 123 | 1.66 | 1.29 | 6.7 |
| 4/22/2015 | 11:42:54 | 56.03 | 55.23 | 111 | 1.66 | 1.29 | 6.1 |

## F9 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:37:34

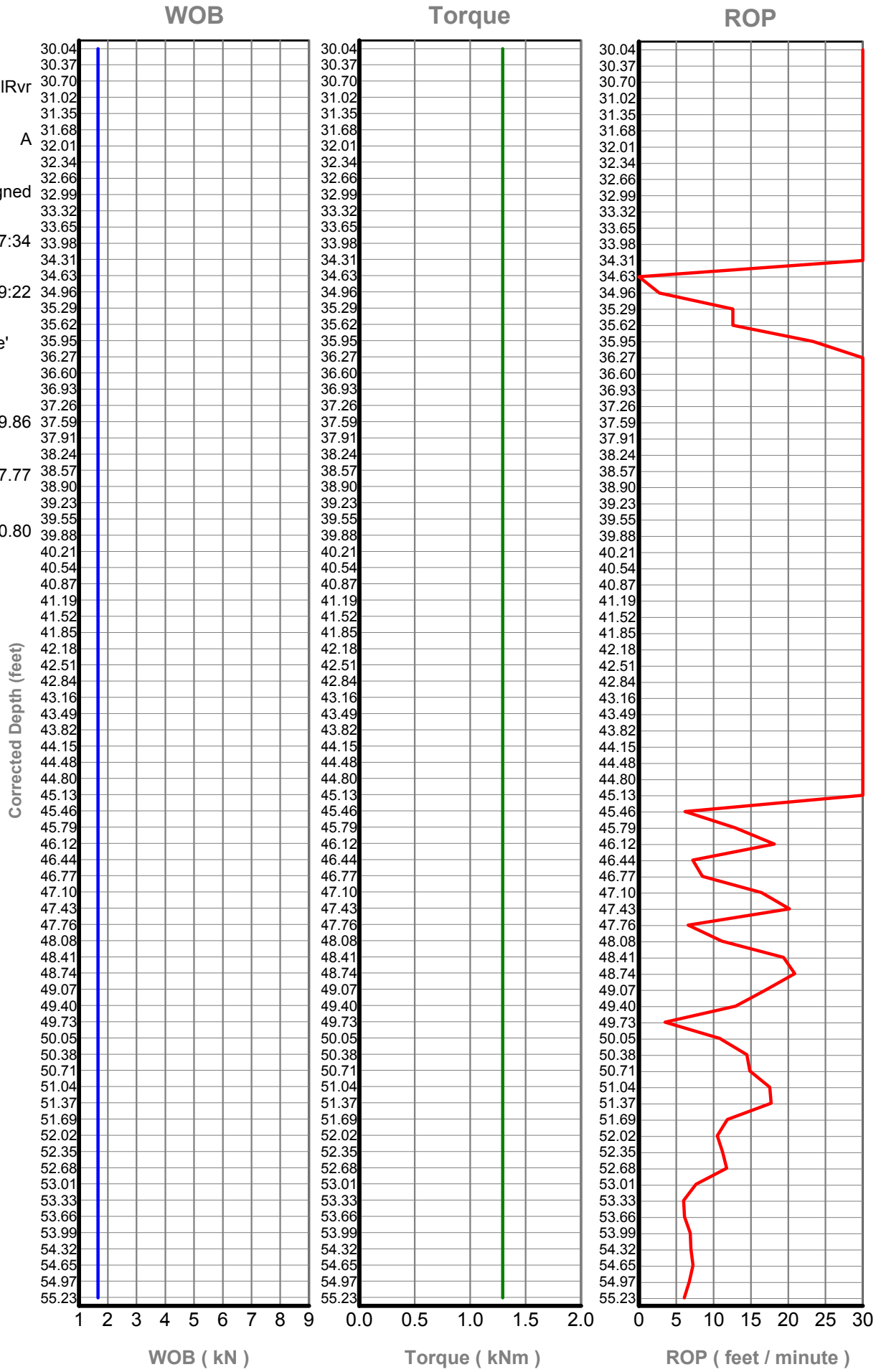
**End Date:**
4/22/2015 11:49:22

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
367,999.86

**Easting:**
252,067.77

**Tide (feet):**
0.80



## Hole: G1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:47:15 | 36.42 | 30.22 | 899 | 0.26 | 0.36 | 49.2 |
| 4/23/2015 4:47:15 | 36.75 | 30.55 | 887 | 0.26 | 0.36 | 48.5 |
| 4/23/2015 4:47:15 | 37.07 | 30.87 | 904 | 0.26 | 0.36 | 49.4 |
| 4/23/2015 4:47:16 | 37.40 | 31.20 | 904 | 0.26 | 0.36 | 49.4 |
| 4/23/2015 4:47:16 | 37.73 | 31.53 | 904 | 0.26 | 0.36 | 49.4 |
| 4/23/2015 4:47:16 | 38.06 | 31.86 | 907 | 0.26 | 0.36 | 49.6 |
| 4/23/2015 4:47:17 | 38.39 | 32.19 | 907 | 0.26 | 0.35 | 49.6 |
| 4/23/2015 4:47:18 | 38.71 | 32.51 | 934 | 0.26 | 0.35 | 51.1 |
| 4/23/2015 4:47:18 | 39.04 | 32.84 | 934 | 0.26 | 0.35 | 51.1 |
| 4/23/2015 4:47:18 | 39.37 | 33.17 | 919 | 0.26 | 0.36 | 50.3 |
| 4/23/2015 4:47:19 | 39.70 | 33.50 | 911 | 0.26 | 0.35 | 49.8 |
| 4/23/2015 4:47:19 | 40.03 | 33.83 | 926 | 0.26 | 0.36 | 50.6 |
| 4/23/2015 4:47:20 | 40.35 | 34.15 | 926 | 0.26 | 0.36 | 50.6 |
| 4/23/2015 4:47:20 | 40.68 | 34.48 | 931 | 0.26 | 0.35 | 50.9 |
| 4/23/2015 4:47:20 | 41.01 | 34.81 | 926 | 0.20 | 0.33 | 50.6 |
| 4/23/2015 4:47:21 | 41.34 | 35.14 | 926 | 0.20 | 0.33 | 50.6 |
| 4/23/2015 4:47:21 | 41.67 | 35.47 | 918 | 0.24 | 0.32 | 50.2 |
| 4/23/2015 4:47:21 | 41.99 | 35.79 | 915 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 4:47:22 | 42.32 | 36.12 | 915 | 0.19 | 0.32 | 50.1 |
| 4/23/2015 4:47:22 | 42.65 | 36.45 | 915 | 0.19 | 0.32 | 50.1 |
| 4/23/2015 4:47:22 | 42.98 | 36.78 | 911 | 0.26 | 0.32 | 49.8 |
| 4/23/2015 4:47:23 | 43.31 | 37.11 | 900 | 0.19 | 0.32 | 49.2 |
| 4/23/2015 4:47:23 | 43.64 | 37.44 | 909 | 0.19 | 0.32 | 49.7 |
| 4/23/2015 4:47:24 | 43.96 | 37.76 | 909 | 0.19 | 0.32 | 49.7 |
| 4/23/2015 4:47:24 | 44.29 | 38.09 | 913 | 0.20 | 0.32 | 49.9 |
| 4/23/2015 4:47:24 | 44.62 | 38.42 | 927 | 0.20 | 0.32 | 50.7 |
| 4/23/2015 4:47:25 | 44.95 | 38.75 | 915 | 0.20 | 0.32 | 50.0 |
| 4/23/2015 4:47:25 | 45.28 | 39.08 | 915 | 0.20 | 0.32 | 50.0 |
| 4/23/2015 4:47:25 | 45.60 | 39.40 | 931 | 0.19 | 0.32 | 50.9 |
| 4/23/2015 4:47:26 | 45.93 | 39.73 | 920 | 0.19 | 0.32 | 50.3 |
| 4/23/2015 4:47:26 | 46.26 | 40.06 | 917 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 4:47:27 | 46.59 | 40.39 | 917 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 4:47:27 | 46.92 | 40.72 | 908 | 0.20 | 0.32 | 49.7 |
| 4/23/2015 4:47:28 | 47.24 | 41.04 | 894 | 0.20 | 0.32 | 48.9 |
| 4/23/2015 4:47:28 | 47.57 | 41.37 | 894 | 0.19 | 0.32 | 48.9 |
| 4/23/2015 4:47:29 | 47.90 | 41.70 | 894 | 0.19 | 0.32 | 48.9 |
| 4/23/2015 4:47:29 | 48.23 | 42.03 | 900 | 0.20 | 0.32 | 49.2 |
| 4/23/2015 4:47:29 | 48.56 | 42.36 | 893 | 0.20 | 0.33 | 48.8 |
| 4/23/2015 4:47:30 | 48.88 | 42.68 | 904 | 0.20 | 0.32 | 49.4 |
| 4/23/2015 4:47:30 | 49.21 | 43.01 | 904 | 0.20 | 0.32 | 49.4 |
| 4/23/2015 4:47:30 | 49.54 | 43.34 | 909 | 0.20 | 0.33 | 49.7 |
| 4/23/2015 4:47:31 | 49.87 | 43.67 | 926 | 0.20 | 0.32 | 50.6 |
| 4/23/2015 4:47:31 | 50.20 | 44.00 | 901 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 4:47:32 | 50.53 | 44.33 | 901 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 4:47:32 | 50.85 | 44.65 | 901 | 0.20 | 0.32 | 49.3 |
| 4/23/2015 4:47:32 | 51.18 | 44.98 | 914 | 0.20 | 0.32 | 50.0 |
| 4/23/2015 4:47:33 | 51.51 | 45.31 | 909 | 0.20 | 0.32 | 49.7 |
| 4/23/2015 4:47:33 | 51.84 | 45.64 | 909 | 0.20 | 0.32 | 49.7 |
| 4/23/2015 4:47:33 | 52.17 | 45.97 | 906 | 0.20 | 0.32 | 49.6 |
| 4/23/2015 4:47:34 | 52.49 | 46.29 | 909 | 0.19 | 0.32 | 49.7 |
| 4/23/2015 4:47:34 | 52.82 | 46.62 | 919 | 0.19 | 0.32 | 50.2 |
| 4/23/2015 4:47:35 | 53.15 | 46.95 | 908 | 0.19 | 0.32 | 49.6 |
| 4/23/2015 4:47:35 | 53.48 | 47.28 | 908 | 0.19 | 0.32 | 49.6 |
| 4/23/2015 4:47:35 | 53.81 | 47.61 | 900 | 0.19 | 0.32 | 49.2 |
| 4/23/2015 4:47:36 | 54.13 | 47.93 | 902 | 0.19 | 0.32 | 49.3 |
| 4/23/2015 4:47:36 | 54.46 | 48.26 | 896 | 0.19 | 0.33 | 49.0 |
| 4/23/2015 4:47:37 | 54.79 | 48.59 | 896 | 0.19 | 0.33 | 49.0 |
| 4/23/2015 4:47:37 | 55.12 | 48.92 | 893 | 0.20 | 0.32 | 48.8 |
| 4/23/2015 4:47:38 | 55.45 | 49.25 | 893 | 0.15 | 0.32 | 48.8 |
| 4/23/2015 4:47:38 | 55.77 | 49.57 | 896 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 4:47:39 | 56.10 | 49.90 | 896 | 0.20 | 0.32 | 49.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:47:39 | 56.43 | 50.23 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 | 4:47:39 | 56.76 | 50.56 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 | 4:47:40 | 57.09 | 50.89 | 865 | 0.19 | 0.33 | 47.3 |
| 4/23/2015 | 4:47:40 | 57.41 | 51.21 | 867 | 0.19 | 0.33 | 47.4 |
| 4/23/2015 | 4:47:41 | 57.74 | 51.54 | 847 | 0.19 | 0.34 | 46.3 |
| 4/23/2015 | 4:47:41 | 58.07 | 51.87 | 847 | 0.19 | 0.34 | 46.3 |
| 4/23/2015 | 4:47:41 | 58.40 | 52.20 | 821 | 0.18 | 0.34 | 44.9 |
| 4/23/2015 | 4:47:42 | 58.73 | 52.53 | 787 | 0.19 | 0.35 | 43.0 |
| 4/23/2015 | 4:47:43 | 59.06 | 52.86 | 708 | 0.19 | 0.35 | 38.7 |
| 4/23/2015 | 4:47:43 | 59.38 | 53.18 | 677 | 0.19 | 0.35 | 37.0 |
| 4/23/2015 | 4:47:44 | 59.71 | 53.51 | 653 | 0.19 | 0.35 | 35.7 |
| 4/23/2015 | 4:47:44 | 60.04 | 53.84 | 651 | 0.19 | 0.35 | 35.6 |
| 4/23/2015 | 4:47:45 | 60.37 | 54.17 | 635 | 0.19 | 0.35 | 34.7 |
| 4/23/2015 | 4:47:45 | 60.70 | 54.50 | 633 | 0.18 | 0.35 | 34.6 |
| 4/23/2015 | 4:47:46 | 61.02 | 54.82 | 636 | 0.19 | 0.35 | 34.8 |
| 4/23/2015 | 4:47:46 | 61.35 | 55.15 | 654 | 0.19 | 0.34 | 35.8 |
| 4/23/2015 | 4:47:46 | 61.56 | 55.36 | 654 | 0.19 | 0.34 | 35.8 |

## G1 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:45:25

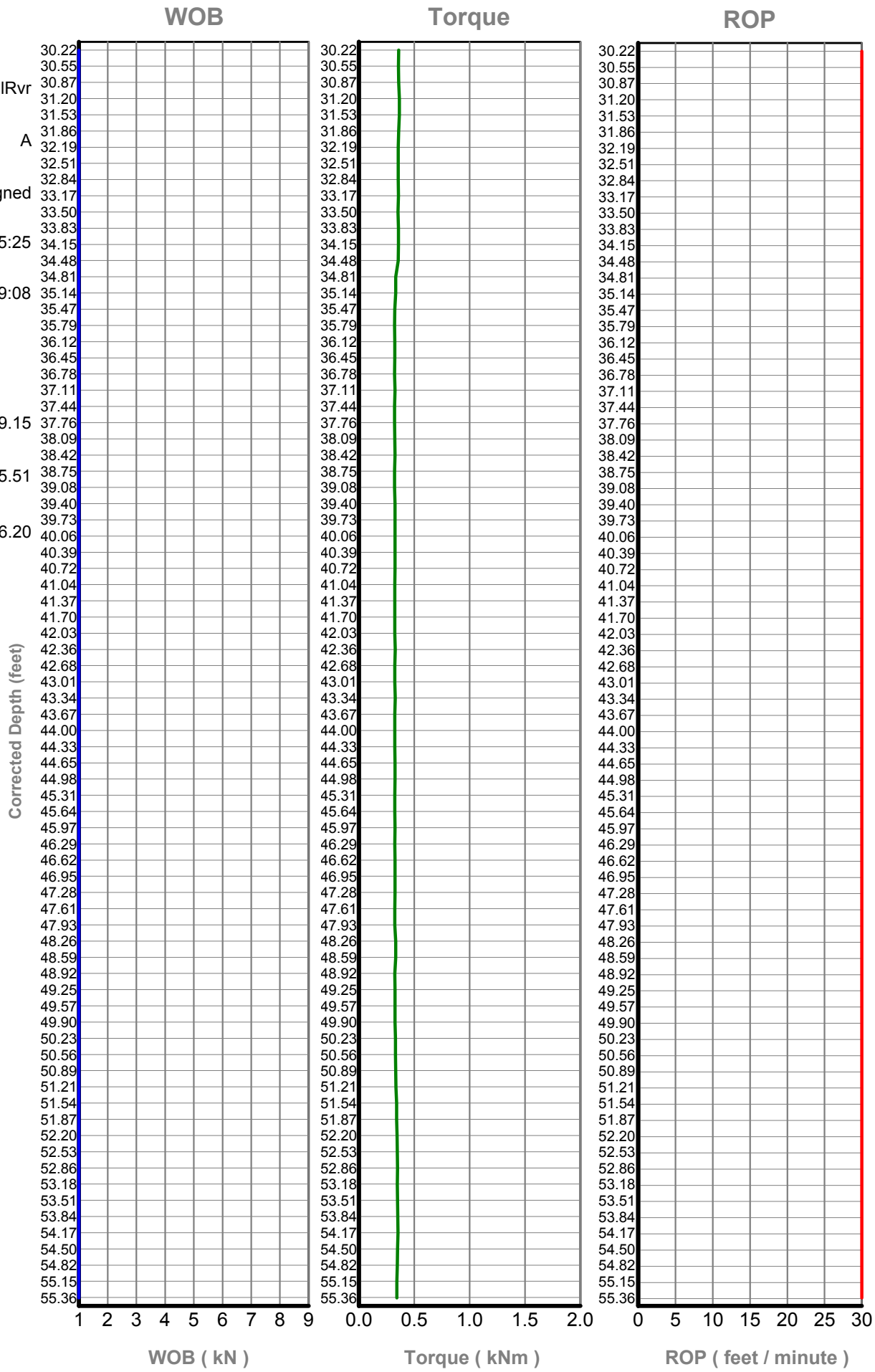
**End Date:**
4/23/2015 4:49:08

**Operator Note:**
'6.2 2 6.2 6.2 b Auto Complete

**Northing:**
367,329.15

**Easting:**
251,955.51

**Tide (feet):**
6.20



## Hole: G10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 10:58:00 | 31.17 | 30.27 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:58:01 | 31.50 | 30.60 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:58:01 | 31.82 | 30.92 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 10:58:01 | 32.15 | 31.25 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:58:02 | 32.48 | 31.58 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:58:02 | 32.81 | 31.91 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 10:58:03 | 33.14 | 32.24 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:58:03 | 33.46 | 32.56 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 10:58:03 | 33.79 | 32.89 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 10:58:04 | 34.12 | 33.22 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 10:58:04 | 34.45 | 33.55 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 10:58:04 | 34.78 | 33.88 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:58:05 | 35.11 | 34.21 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 10:58:05 | 35.43 | 34.53 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 10:58:05 | 35.76 | 34.86 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 10:58:06 | 36.09 | 35.19 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 10:58:06 | 36.42 | 35.52 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 10:58:06 | 36.75 | 35.85 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:58:07 | 37.07 | 36.17 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:58:07 | 37.40 | 36.50 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:58:07 | 37.73 | 36.83 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 10:58:08 | 38.06 | 37.16 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 10:58:08 | 38.39 | 37.49 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 10:58:08 | 38.71 | 37.81 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 10:58:09 | 39.04 | 38.14 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 10:58:09 | 39.37 | 38.47 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 10:58:09 | 39.70 | 38.80 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 10:58:10 | 40.03 | 39.13 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 10:58:10 | 40.35 | 39.45 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 10:58:11 | 40.68 | 39.78 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 10:58:11 | 41.01 | 40.11 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:11 | 41.34 | 40.44 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 10:58:12 | 41.67 | 40.77 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 10:58:12 | 41.99 | 41.09 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 10:58:12 | 42.32 | 41.42 | 969 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 10:58:13 | 42.65 | 41.75 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 10:58:14 | 42.98 | 42.08 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 10:58:14 | 43.31 | 42.41 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 10:58:14 | 43.64 | 42.74 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 10:58:15 | 43.96 | 43.06 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 10:58:15 | 44.29 | 43.39 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:15 | 44.62 | 43.72 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:16 | 44.95 | 44.05 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:16 | 45.28 | 44.38 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 10:58:16 | 45.60 | 44.70 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:17 | 45.93 | 45.03 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 10:58:17 | 46.26 | 45.36 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 10:58:17 | 46.59 | 45.69 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 10:58:18 | 46.92 | 46.02 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 10:58:18 | 47.24 | 46.34 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 10:58:18 | 47.57 | 46.67 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 10:58:19 | 47.90 | 47.00 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 10:58:19 | 48.23 | 47.33 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 10:58:19 | 48.56 | 47.66 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 10:58:20 | 48.88 | 47.98 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 10:58:20 | 49.21 | 48.31 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 10:58:20 | 49.54 | 48.64 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 10:58:30 | 49.87 | 48.97 | 31 | 1.66 | 1.29 | 1.7 |
| 4/22/2015 10:58:31 | 50.20 | 49.30 | 227 | 1.66 | 1.29 | 12.4 |
| 4/22/2015 10:58:32 | 50.53 | 49.63 | 350 | 1.66 | 1.29 | 19.1 |
| 4/22/2015 10:58:33 | 50.85 | 49.95 | 379 | 1.66 | 1.29 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 10:58:34 | 51.18 | 50.28 | 363 | 1.66 | 1.29 | 19.8 |
| 4/22/2015 | 10:58:44 | 51.51 | 50.61 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 | 10:58:50 | 51.84 | 50.94 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 10:58:53 | 52.17 | 51.27 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 10:58:57 | 52.49 | 51.59 | 96 | 1.66 | 1.29 | 5.3 |
| 4/22/2015 | 10:59:02 | 52.82 | 51.92 | 76 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 10:59:07 | 53.15 | 52.25 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 10:59:12 | 53.48 | 52.58 | 66 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 | 10:59:17 | 53.81 | 52.91 | 73 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 10:59:22 | 54.13 | 53.23 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 10:59:26 | 54.46 | 53.56 | 95 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 | 10:59:30 | 54.79 | 53.89 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 10:59:34 | 55.12 | 54.22 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 | 10:59:40 | 55.45 | 54.55 | 72 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 10:59:43 | 55.77 | 54.87 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 10:59:45 | 55.93 | 55.03 | 88 | 1.66 | 1.29 | 4.8 |

## G10 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 10:56:05

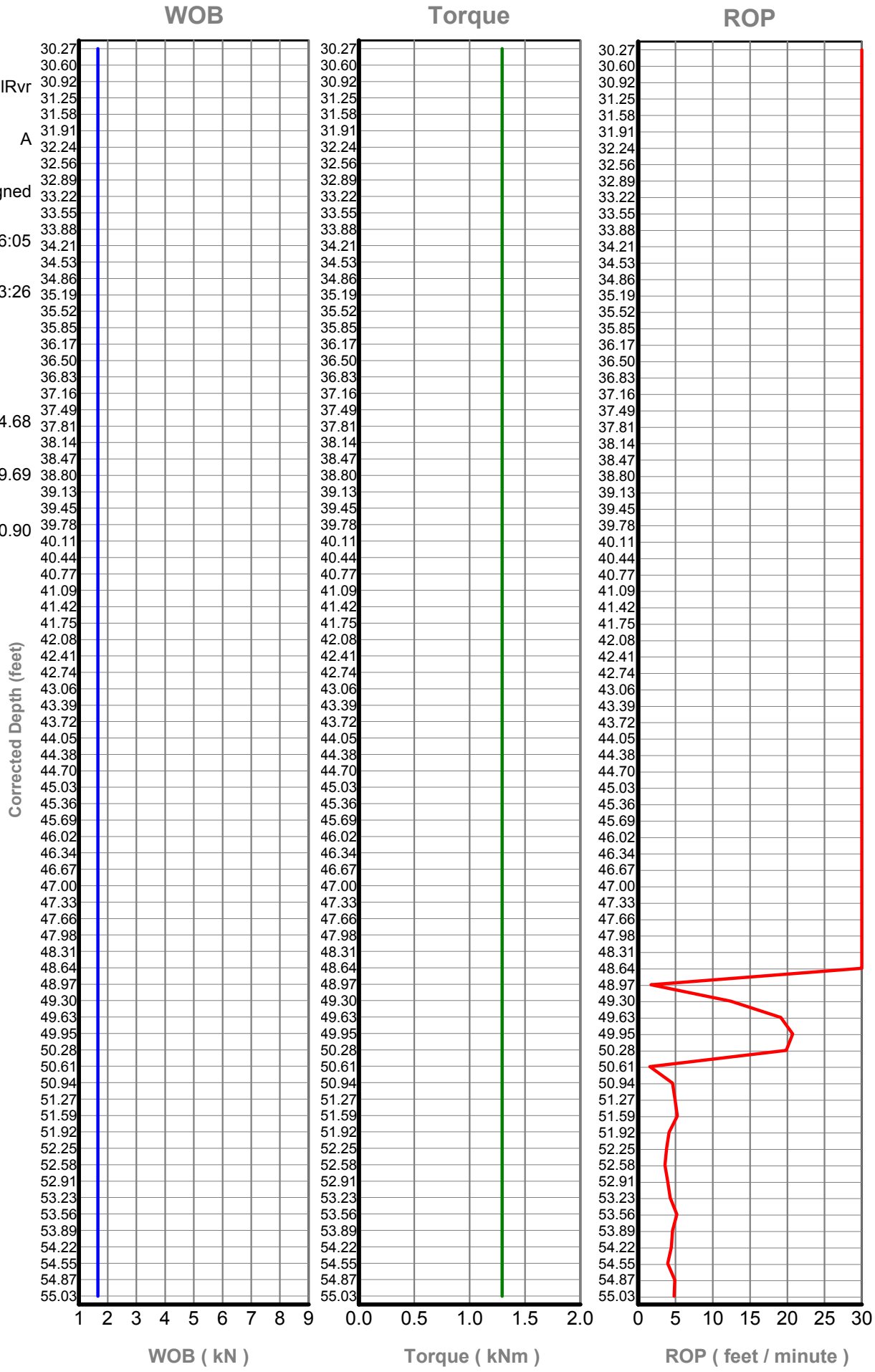
**End Date:**
4/22/2015 11:03:26

**Operator Note:**
'0.9 0.9 b'

**Northing:**
367,764.68

**Easting:**
252,479.69

**Tide (feet):**
0.90



## Hole: G11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:05:21 | 30.84 | 30.04 | 1,081 | 1.66 | 1.29 | 59.1 |
| 4/22/2015 11:05:21 | 31.17 | 30.37 | 1,094 | 1.66 | 1.29 | 59.8 |
| 4/22/2015 11:05:21 | 31.50 | 30.70 | 1,084 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:22 | 31.82 | 31.02 | 1,084 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:22 | 32.15 | 31.35 | 1,088 | 1.66 | 1.29 | 59.5 |
| 4/22/2015 11:05:22 | 32.48 | 31.68 | 1,078 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:23 | 32.81 | 32.01 | 1,078 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:23 | 33.14 | 32.34 | 1,082 | 1.66 | 1.29 | 59.2 |
| 4/22/2015 11:05:23 | 33.46 | 32.66 | 1,073 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 11:05:24 | 33.79 | 32.99 | 1,073 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 11:05:24 | 34.12 | 33.32 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:24 | 34.45 | 33.65 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:24 | 34.78 | 33.98 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 11:05:25 | 35.11 | 34.31 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 11:05:25 | 35.43 | 34.63 | 1,073 | 1.66 | 1.29 | 58.7 |
| 4/22/2015 11:05:25 | 35.76 | 34.96 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 11:05:26 | 36.09 | 35.29 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:26 | 36.42 | 35.62 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:27 | 36.75 | 35.95 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:27 | 37.07 | 36.27 | 1,081 | 1.66 | 1.29 | 59.1 |
| 4/22/2015 11:05:28 | 37.40 | 36.60 | 1,081 | 1.66 | 1.29 | 59.1 |
| 4/22/2015 11:05:28 | 37.73 | 36.93 | 1,085 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:28 | 38.06 | 37.26 | 1,085 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:28 | 38.39 | 37.59 | 1,081 | 1.66 | 1.29 | 59.1 |
| 4/22/2015 11:05:29 | 38.71 | 37.91 | 1,085 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:29 | 39.04 | 38.24 | 1,085 | 1.66 | 1.29 | 59.3 |
| 4/22/2015 11:05:29 | 39.37 | 38.57 | 1,075 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:30 | 39.70 | 38.90 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:30 | 40.03 | 39.23 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:30 | 40.35 | 39.55 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 11:05:31 | 40.68 | 39.88 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 11:05:31 | 41.01 | 40.21 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 11:05:31 | 41.34 | 40.54 | 1,067 | 1.66 | 1.29 | 58.3 |
| 4/22/2015 11:05:32 | 41.67 | 40.87 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:32 | 41.99 | 41.19 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:32 | 42.32 | 41.52 | 1,072 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 11:05:33 | 42.65 | 41.85 | 1,072 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 11:05:33 | 42.98 | 42.18 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:33 | 43.31 | 42.51 | 1,075 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:34 | 43.64 | 42.84 | 1,075 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:34 | 43.96 | 43.16 | 1,082 | 1.66 | 1.29 | 59.2 |
| 4/22/2015 11:05:34 | 44.29 | 43.49 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:35 | 44.62 | 43.82 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:35 | 44.95 | 44.15 | 1,079 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 11:05:35 | 45.28 | 44.48 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:36 | 45.60 | 44.80 | 1,076 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 11:05:36 | 45.93 | 45.13 | 1,070 | 1.66 | 1.29 | 58.5 |
| 4/22/2015 11:05:36 | 46.26 | 45.46 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 11:05:37 | 46.59 | 45.79 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 11:05:37 | 46.92 | 46.12 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 11:05:37 | 47.24 | 46.44 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 11:05:37 | 47.57 | 46.77 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 11:05:38 | 47.90 | 47.10 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:05:39 | 48.23 | 47.43 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 11:05:39 | 48.56 | 47.76 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 11:05:39 | 48.88 | 48.08 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:05:40 | 49.21 | 48.41 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 11:05:40 | 49.54 | 48.74 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 11:05:40 | 49.87 | 49.07 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:05:41 | 50.20 | 49.40 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 11:05:41 | 50.53 | 49.73 | 1,039 | 1.66 | 1.29 | 56.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:05:41 | 50.85 | 50.05 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 | 11:05:42 | 51.18 | 50.38 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 | 11:05:42 | 51.51 | 50.71 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 | 11:05:42 | 51.84 | 51.04 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 | 11:05:43 | 52.17 | 51.37 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 | 11:05:43 | 52.49 | 51.69 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 | 11:05:43 | 52.82 | 52.02 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 | 11:05:44 | 53.15 | 52.35 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 | 11:05:44 | 53.48 | 52.68 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 | 11:05:44 | 53.81 | 53.01 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 | 11:05:45 | 54.13 | 53.33 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 | 11:05:45 | 54.46 | 53.66 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 | 11:05:45 | 54.79 | 53.99 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 | 11:05:52 | 55.12 | 54.32 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 | 11:05:56 | 55.45 | 54.65 | 65 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 11:05:57 | 55.77 | 54.97 | 155 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 | 11:05:57 | 56.10 | 55.30 | 155 | 1.66 | 1.29 | 8.5 |

## G11 - Summary

**Pattern Number:**
AreaF_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 11:04:11

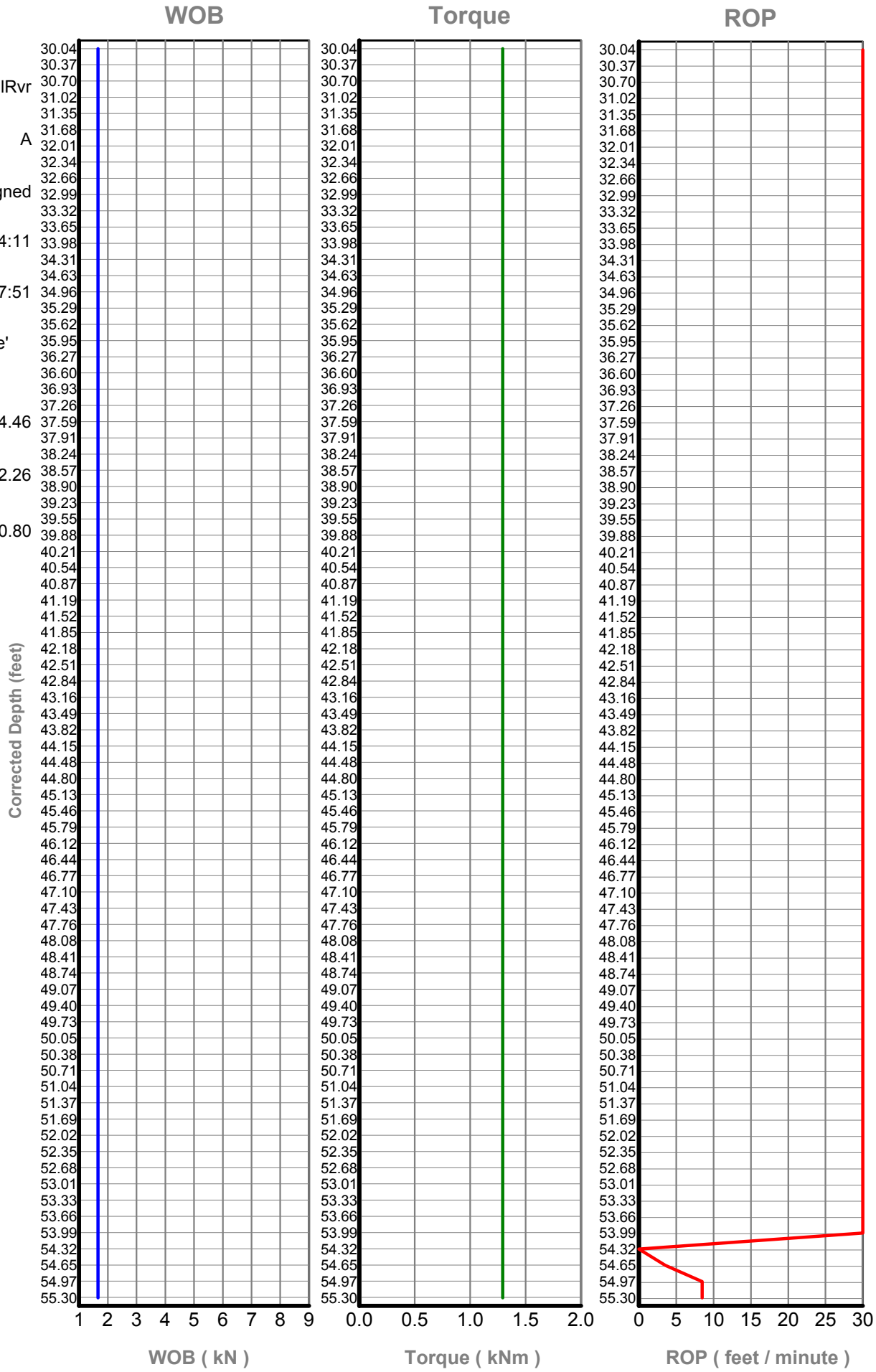
**End Date:**
4/22/2015 11:07:51

**Operator Note:**
'0.8 0.9 b Auto Complete'

**Northing:**
367,804.46

**Easting:**
252,532.26

**Tide (feet):**
0.80



## Hole: G12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 11:01:53 | 30.84 | 30.04 | 598 | 1.71 | 0.14 | 32.7 |
| 4/22/2015 11:01:53 | 31.17 | 30.37 | 604 | 1.72 | 0.14 | 33.0 |
| 4/22/2015 11:01:54 | 31.50 | 30.70 | 604 | 1.76 | 0.13 | 33.0 |
| 4/22/2015 11:01:55 | 31.82 | 31.02 | 604 | 1.76 | 0.13 | 33.0 |
| 4/22/2015 11:01:55 | 32.15 | 31.35 | 604 | 1.79 | 0.13 | 33.0 |
| 4/22/2015 11:01:56 | 32.48 | 31.68 | 604 | 1.79 | 0.13 | 33.0 |
| 4/22/2015 11:01:57 | 32.81 | 32.01 | 604 | 1.79 | 0.14 | 33.0 |
| 4/22/2015 11:01:57 | 33.14 | 32.34 | 598 | 1.81 | 0.13 | 32.7 |
| 4/22/2015 11:01:58 | 33.46 | 32.66 | 604 | 1.72 | 0.13 | 33.0 |
| 4/22/2015 11:01:58 | 33.79 | 32.99 | 598 | 1.68 | 0.14 | 32.7 |
| 4/22/2015 11:01:59 | 34.12 | 33.32 | 590 | 1.76 | 0.15 | 32.2 |
| 4/22/2015 11:02:00 | 34.45 | 33.65 | 579 | 1.71 | 0.23 | 31.6 |
| 4/22/2015 11:02:00 | 34.78 | 33.98 | 566 | 1.69 | 0.28 | 31.0 |
| 4/22/2015 11:02:01 | 35.11 | 34.31 | 558 | 1.72 | 0.30 | 30.5 |
| 4/22/2015 11:02:01 | 35.43 | 34.63 | 555 | 1.70 | 0.29 | 30.3 |
| 4/22/2015 11:02:02 | 35.76 | 34.96 | 543 | 1.72 | 0.29 | 29.7 |
| 4/22/2015 11:02:03 | 36.09 | 35.29 | 543 | 1.73 | 0.30 | 29.7 |
| 4/22/2015 11:02:03 | 36.42 | 35.62 | 552 | 1.74 | 0.30 | 30.2 |
| 4/22/2015 11:02:04 | 36.75 | 35.95 | 558 | 1.72 | 0.30 | 30.5 |
| 4/22/2015 11:02:05 | 37.07 | 36.27 | 555 | 1.72 | 0.29 | 30.3 |
| 4/22/2015 11:02:06 | 37.40 | 36.60 | 567 | 1.73 | 0.29 | 31.0 |
| 4/22/2015 11:02:06 | 37.73 | 36.93 | 558 | 1.73 | 0.29 | 30.5 |
| 4/22/2015 11:02:07 | 38.06 | 37.26 | 543 | 1.74 | 0.29 | 29.7 |
| 4/22/2015 11:02:07 | 38.39 | 37.59 | 543 | 1.74 | 0.30 | 29.7 |
| 4/22/2015 11:02:08 | 38.71 | 37.91 | 548 | 1.72 | 0.29 | 29.9 |
| 4/22/2015 11:02:09 | 39.04 | 38.24 | 552 | 1.73 | 0.29 | 30.2 |
| 4/22/2015 11:02:09 | 39.37 | 38.57 | 555 | 1.69 | 0.28 | 30.3 |
| 4/22/2015 11:02:10 | 39.70 | 38.90 | 566 | 1.71 | 0.29 | 31.0 |
| 4/22/2015 11:02:11 | 40.03 | 39.23 | 565 | 1.73 | 0.29 | 30.9 |
| 4/22/2015 11:02:11 | 40.35 | 39.55 | 558 | 1.74 | 0.29 | 30.5 |
| 4/22/2015 11:02:12 | 40.68 | 39.88 | 552 | 1.68 | 0.29 | 30.2 |
| 4/22/2015 11:02:12 | 41.01 | 40.21 | 555 | 1.71 | 0.29 | 30.4 |
| 4/22/2015 11:02:13 | 41.34 | 40.54 | 552 | 1.70 | 0.29 | 30.2 |
| 4/22/2015 11:02:14 | 41.67 | 40.87 | 555 | 1.74 | 0.29 | 30.4 |
| 4/22/2015 11:02:14 | 41.99 | 41.19 | 558 | 1.71 | 0.29 | 30.5 |
| 4/22/2015 11:02:15 | 42.32 | 41.52 | 555 | 1.73 | 0.29 | 30.3 |
| 4/22/2015 11:02:16 | 42.65 | 41.85 | 555 | 1.70 | 0.29 | 30.3 |
| 4/22/2015 11:02:17 | 42.98 | 42.18 | 548 | 1.70 | 0.29 | 30.0 |
| 4/22/2015 11:02:17 | 43.31 | 42.51 | 552 | 1.76 | 0.28 | 30.2 |
| 4/22/2015 11:02:18 | 43.64 | 42.84 | 552 | 1.71 | 0.37 | 30.2 |
| 4/22/2015 11:02:18 | 43.96 | 43.16 | 549 | 1.73 | 0.30 | 30.0 |
| 4/22/2015 11:02:19 | 44.29 | 43.49 | 564 | 1.71 | 0.29 | 30.9 |
| 4/22/2015 11:02:20 | 44.62 | 43.82 | 561 | 1.72 | 0.29 | 30.7 |
| 4/22/2015 11:02:20 | 44.95 | 44.15 | 560 | 1.72 | 0.29 | 30.6 |
| 4/22/2015 11:02:21 | 45.28 | 44.48 | 570 | 1.70 | 0.29 | 31.1 |
| 4/22/2015 11:02:21 | 45.60 | 44.80 | 572 | 1.72 | 0.30 | 31.3 |
| 4/22/2015 11:02:22 | 45.93 | 45.13 | 575 | 1.72 | 0.29 | 31.5 |
| 4/22/2015 11:02:23 | 46.26 | 45.46 | 585 | 1.72 | 0.29 | 32.0 |
| 4/22/2015 11:02:23 | 46.59 | 45.79 | 581 | 1.72 | 0.29 | 31.8 |
| 4/22/2015 11:02:24 | 46.92 | 46.12 | 581 | 1.74 | 0.29 | 31.8 |
| 4/22/2015 11:02:24 | 47.24 | 46.44 | 578 | 1.71 | 0.29 | 31.6 |
| 4/22/2015 11:02:26 | 47.57 | 46.77 | 575 | 1.73 | 0.29 | 31.5 |
| 4/22/2015 11:02:26 | 47.90 | 47.10 | 575 | 1.75 | 0.29 | 31.5 |
| 4/22/2015 11:02:27 | 48.23 | 47.43 | 566 | 1.74 | 0.29 | 31.0 |
| 4/22/2015 11:02:27 | 48.56 | 47.76 | 552 | 1.73 | 0.29 | 30.2 |
| 4/22/2015 11:02:28 | 48.88 | 48.08 | 522 | 1.74 | 0.29 | 28.5 |
| 4/22/2015 11:02:29 | 49.21 | 48.41 | 473 | 1.70 | 0.29 | 25.9 |
| 4/22/2015 11:02:30 | 49.54 | 48.74 | 449 | 1.73 | 0.29 | 24.6 |
| 4/22/2015 11:02:31 | 49.87 | 49.07 | 425 | 1.70 | 0.29 | 23.2 |
| 4/22/2015 11:02:32 | 50.20 | 49.40 | 405 | 1.70 | 0.29 | 22.1 |
| 4/22/2015 11:02:32 | 50.53 | 49.73 | 405 | 1.69 | 0.29 | 22.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 11:02:33 | 50.85 | 50.05 | 405 | 1.70 | 0.29 | 22.1 |
| 4/22/2015 | 11:02:34 | 51.18 | 50.38 | 396 | 1.70 | 0.29 | 21.7 |
| 4/22/2015 | 11:02:35 | 51.51 | 50.71 | 399 | 1.70 | 0.29 | 21.8 |
| 4/22/2015 | 11:02:36 | 51.84 | 51.04 | 399 | 1.71 | 0.29 | 21.8 |
| 4/22/2015 | 11:02:37 | 52.17 | 51.37 | 399 | 1.72 | 0.29 | 21.8 |
| 4/22/2015 | 11:02:38 | 52.49 | 51.69 | 412 | 1.70 | 0.29 | 22.5 |
| 4/22/2015 | 11:02:39 | 52.82 | 52.02 | 410 | 1.70 | 0.29 | 22.4 |
| 4/22/2015 | 11:02:40 | 53.15 | 52.35 | 422 | 1.72 | 0.29 | 23.1 |
| 4/22/2015 | 11:02:40 | 53.48 | 52.68 | 410 | 1.70 | 0.28 | 22.4 |
| 4/22/2015 | 11:02:41 | 53.81 | 53.01 | 412 | 1.71 | 0.28 | 22.5 |
| 4/22/2015 | 11:02:42 | 54.13 | 53.33 | 419 | 1.71 | 0.29 | 22.9 |
| 4/22/2015 | 11:02:43 | 54.46 | 53.66 | 409 | 1.71 | 0.28 | 22.3 |
| 4/22/2015 | 11:02:44 | 54.79 | 53.99 | 423 | 1.71 | 0.29 | 23.1 |
| 4/22/2015 | 11:02:45 | 55.12 | 54.32 | 414 | 1.72 | 0.28 | 22.6 |
| 4/22/2015 | 11:02:45 | 55.45 | 54.65 | 407 | 1.70 | 0.28 | 22.3 |
| 4/22/2015 | 11:02:47 | 55.77 | 54.97 | 408 | 1.68 | 0.28 | 22.3 |
| 4/22/2015 | 11:02:48 | 56.10 | 55.30 | 405 | 1.73 | 0.29 | 22.1 |
| 4/22/2015 | 11:02:49 | 56.39 | 55.59 | 330 | 1.45 | 0.29 | 18.0 |

## G12 - Summary

**Pattern Number:** G1

**Frame:** C

**Hole Status:** New

**Start Date:** 4/22/2015 10:59:13

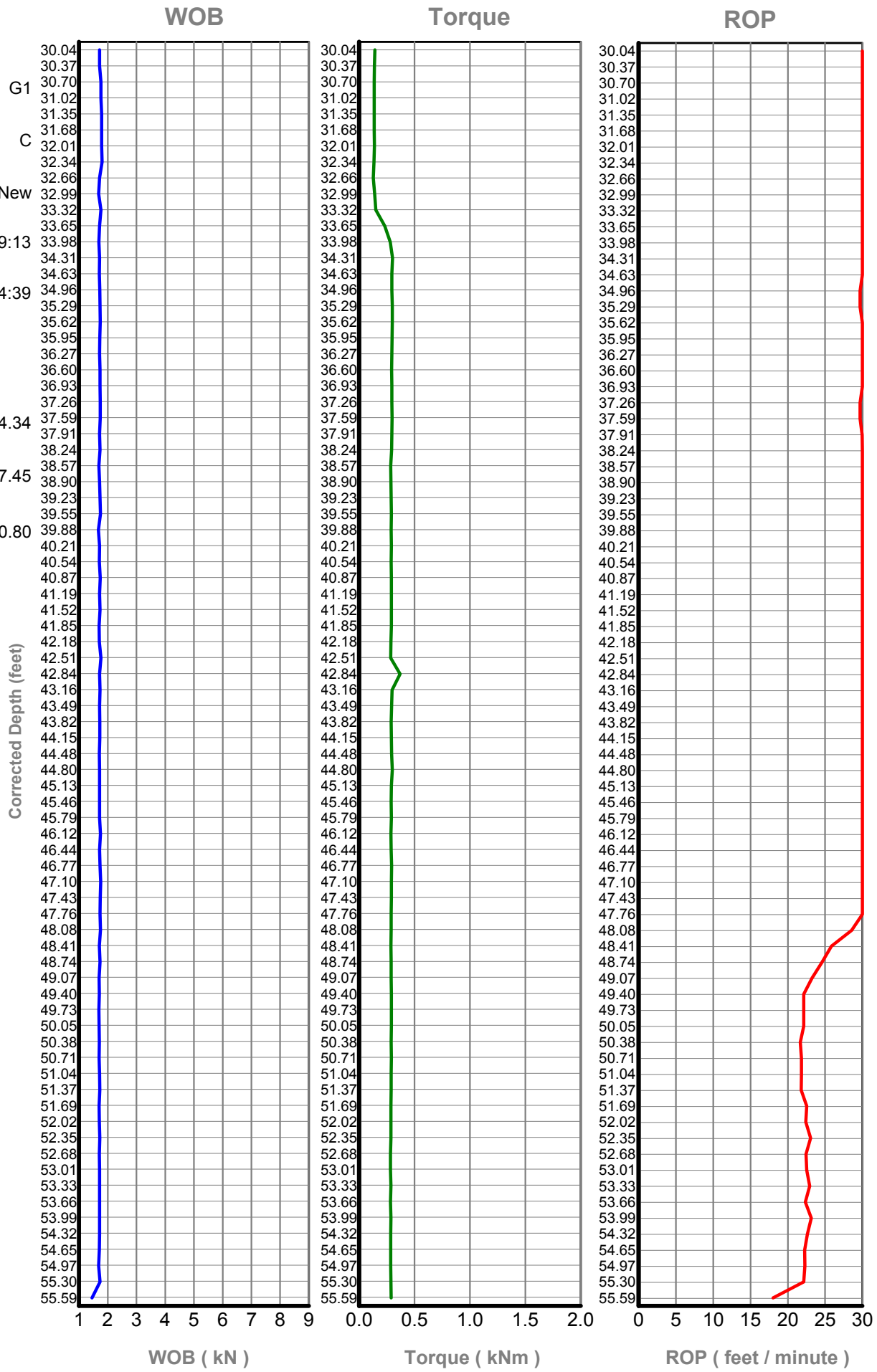
**End Date:** 4/22/2015 11:04:39

**Operator Note:** '0.8 1.0 c Auto Complete'

**Northing:** 367,844.34

**Easting:** 252,587.45

**Tide (feet):** 0.80



## Hole: G13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:08:54 | 36.42 | 30.32 | 17 | 1.36 | 0.34 | 0.9 |
| 4/23/2015 5:08:54 | 36.75 | 30.65 | 173 | 1.37 | 0.33 | 9.5 |
| 4/23/2015 5:08:55 | 37.07 | 30.97 | 339 | 1.38 | 0.34 | 18.5 |
| 4/23/2015 5:08:55 | 37.40 | 31.30 | 339 | 1.38 | 0.34 | 18.5 |
| 4/23/2015 5:08:55 | 37.73 | 31.63 | 510 | 0.21 | 0.33 | 27.9 |
| 4/23/2015 5:08:56 | 38.06 | 31.96 | 684 | 0.18 | 0.33 | 37.4 |
| 4/23/2015 5:08:56 | 38.39 | 32.29 | 838 | 0.19 | 0.34 | 45.8 |
| 4/23/2015 5:08:57 | 38.71 | 32.61 | 856 | 0.19 | 0.33 | 46.8 |
| 4/23/2015 5:08:57 | 39.04 | 32.94 | 856 | 0.19 | 0.33 | 46.8 |
| 4/23/2015 5:08:57 | 39.37 | 33.27 | 865 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 5:08:58 | 39.70 | 33.60 | 870 | 0.19 | 0.33 | 47.6 |
| 4/23/2015 5:08:59 | 40.03 | 33.93 | 873 | 0.19 | 0.33 | 47.7 |
| 4/23/2015 5:08:59 | 40.35 | 34.25 | 873 | 0.19 | 0.33 | 47.7 |
| 4/23/2015 5:08:59 | 40.68 | 34.58 | 873 | 0.19 | 0.33 | 47.7 |
| 4/23/2015 5:09:00 | 41.01 | 34.91 | 870 | 0.19 | 0.33 | 47.6 |
| 4/23/2015 5:09:00 | 41.34 | 35.24 | 869 | 0.19 | 0.33 | 47.5 |
| 4/23/2015 5:09:01 | 41.67 | 35.57 | 864 | -0.07 | 0.33 | 47.3 |
| 4/23/2015 5:09:01 | 41.99 | 35.89 | 864 | -0.07 | 0.33 | 47.3 |
| 4/23/2015 5:09:01 | 42.32 | 36.22 | 862 | 0.19 | 0.33 | 47.1 |
| 4/23/2015 5:09:02 | 42.65 | 36.55 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 5:09:02 | 42.98 | 36.88 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 5:09:03 | 43.31 | 37.21 | 876 | 0.15 | 0.34 | 47.9 |
| 4/23/2015 5:09:11 | 43.64 | 37.54 | 0 | 0.18 | 0.33 | 0.0 |
| 4/23/2015 5:09:12 | 43.96 | 37.86 | 111 | 0.20 | 0.33 | 6.1 |
| 4/23/2015 5:09:12 | 44.29 | 38.19 | 288 | 0.20 | 0.33 | 15.7 |
| 4/23/2015 5:09:13 | 44.62 | 38.52 | 288 | 0.20 | 0.33 | 15.7 |
| 4/23/2015 5:09:13 | 44.95 | 38.85 | 288 | 0.20 | 0.33 | 15.7 |
| 4/23/2015 5:09:13 | 45.28 | 39.18 | 463 | 0.20 | 0.34 | 25.3 |
| 4/23/2015 5:09:14 | 45.60 | 39.50 | 635 | 0.20 | 0.34 | 34.7 |
| 4/23/2015 5:09:14 | 45.93 | 39.83 | 635 | 0.20 | 0.34 | 34.7 |
| 4/23/2015 5:09:14 | 46.26 | 40.16 | 803 | 0.20 | 0.33 | 43.9 |
| 4/23/2015 5:09:15 | 46.59 | 40.49 | 865 | 0.20 | 0.33 | 47.3 |
| 4/23/2015 5:09:15 | 46.92 | 40.82 | 863 | 0.20 | 0.33 | 47.2 |
| 4/23/2015 5:09:16 | 47.24 | 41.14 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 5:09:16 | 47.57 | 41.47 | 859 | 0.20 | 0.33 | 47.0 |
| 4/23/2015 5:09:16 | 47.90 | 41.80 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 5:09:17 | 48.23 | 42.13 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 5:09:17 | 48.56 | 42.46 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 5:09:18 | 48.88 | 42.78 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 5:09:18 | 49.21 | 43.11 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 5:09:18 | 49.54 | 43.44 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 5:09:19 | 49.87 | 43.77 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 5:09:20 | 50.20 | 44.10 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 5:09:20 | 50.53 | 44.43 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 5:09:20 | 50.85 | 44.75 | 882 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 5:09:21 | 51.18 | 45.08 | 887 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 5:09:21 | 51.51 | 45.41 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 5:09:22 | 51.84 | 45.74 | 885 | 0.20 | 0.33 | 48.4 |
| 4/23/2015 5:09:22 | 52.17 | 46.07 | 879 | 0.20 | 0.30 | 48.1 |
| 4/23/2015 5:09:22 | 52.49 | 46.39 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 5:09:23 | 52.82 | 46.72 | 879 | 0.20 | 0.33 | 48.1 |
| 4/23/2015 5:09:23 | 53.15 | 47.05 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 5:09:24 | 53.48 | 47.38 | 876 | 0.20 | 0.33 | 47.9 |
| 4/23/2015 5:09:24 | 53.81 | 47.71 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 5:09:24 | 54.13 | 48.03 | 868 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 5:09:25 | 54.46 | 48.36 | 873 | 0.20 | 0.33 | 47.7 |
| 4/23/2015 5:09:25 | 54.79 | 48.69 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 5:09:26 | 55.12 | 49.02 | 870 | 0.20 | 0.33 | 47.6 |
| 4/23/2015 5:09:26 | 55.45 | 49.35 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 5:09:26 | 55.77 | 49.67 | 864 | 0.20 | 0.34 | 47.3 |
| 4/23/2015 5:09:27 | 56.10 | 50.00 | 859 | 0.20 | 0.33 | 47.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:09:27 | 56.43 | 50.33 | 847 | 0.20 | 0.34 | 46.3 |
| 4/23/2015 | 5:09:28 | 56.76 | 50.66 | 847 | 0.20 | 0.34 | 46.3 |
| 4/23/2015 | 5:09:28 | 57.09 | 50.99 | 841 | 0.20 | 0.34 | 46.0 |
| 4/23/2015 | 5:09:28 | 57.41 | 51.31 | 825 | 0.20 | 0.34 | 45.1 |
| 4/23/2015 | 5:09:29 | 57.74 | 51.64 | 815 | 0.20 | 0.34 | 44.6 |
| 4/23/2015 | 5:09:30 | 58.07 | 51.97 | 798 | 0.20 | 0.34 | 43.6 |
| 4/23/2015 | 5:09:30 | 58.40 | 52.30 | 780 | 0.20 | 0.34 | 42.7 |
| 4/23/2015 | 5:09:31 | 58.73 | 52.63 | 763 | 0.20 | 0.34 | 41.7 |
| 4/23/2015 | 5:09:31 | 59.06 | 52.96 | 755 | 0.20 | 0.34 | 41.3 |
| 4/23/2015 | 5:09:32 | 59.38 | 53.28 | 749 | 0.20 | 0.34 | 40.9 |
| 4/23/2015 | 5:09:32 | 59.71 | 53.61 | 749 | 0.19 | 0.36 | 40.9 |
| 4/23/2015 | 5:09:33 | 60.04 | 53.94 | 716 | 0.17 | 0.38 | 39.1 |
| 4/23/2015 | 5:09:36 | 60.37 | 54.27 | 61 | 0.18 | 0.38 | 3.4 |
| 4/23/2015 | 5:09:37 | 60.70 | 54.60 | 137 | 0.18 | 0.37 | 7.5 |
| 4/23/2015 | 5:09:38 | 61.02 | 54.92 | 268 | 0.18 | 0.37 | 14.6 |
| 4/23/2015 | 5:09:42 | 61.35 | 55.25 | 0 | 0.19 | 0.34 | 0.0 |
| 4/23/2015 | 5:09:43 | 61.68 | 55.58 | 0 | 0.20 | 0.34 | 0.0 |
| 4/23/2015 | 5:09:43 | 62.01 | 55.91 | 135 | 0.20 | 0.35 | 7.4 |
| 4/23/2015 | 5:09:44 | 62.31 | 56.21 | 284 | 0.19 | 0.35 | 15.5 |

## G13 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 5:04:24

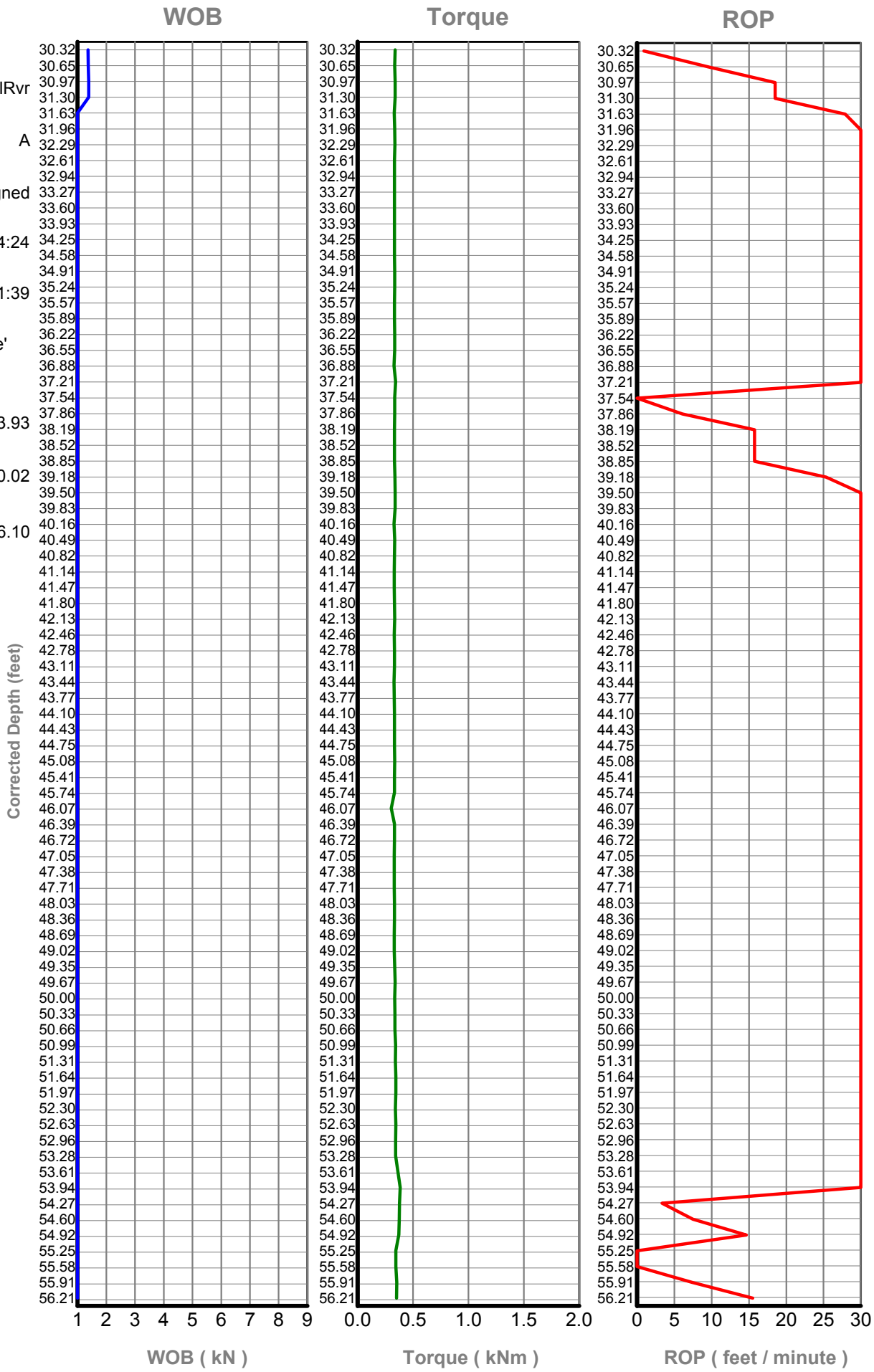
**End Date:**
4/23/2015 5:11:39

**Operator Note:**
'6.1 6.2 b Auto Complete'

**Northing:**
367,273.93

**Easting:**
252,000.02

**Tide (feet):**
6.10



## Hole: G14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:19:51 | 36.09 | 30.09 | 457 | 1.69 | 0.17 | 25.0 |
| 4/23/2015 5:19:52 | 36.42 | 30.42 | 455 | 1.71 | 0.16 | 24.9 |
| 4/23/2015 5:19:53 | 36.75 | 30.75 | 462 | 1.70 | 0.17 | 25.3 |
| 4/23/2015 5:19:54 | 37.07 | 31.07 | 457 | 1.70 | 0.17 | 25.0 |
| 4/23/2015 5:19:54 | 37.40 | 31.40 | 457 | 1.74 | 0.17 | 25.0 |
| 4/23/2015 5:19:55 | 37.73 | 31.73 | 460 | 1.71 | 0.17 | 25.1 |
| 4/23/2015 5:19:56 | 38.06 | 32.06 | 457 | 1.70 | 0.17 | 25.0 |
| 4/23/2015 5:19:57 | 38.39 | 32.39 | 460 | 1.70 | 0.17 | 25.1 |
| 4/23/2015 5:19:57 | 38.71 | 32.71 | 454 | 1.70 | 0.17 | 24.8 |
| 4/23/2015 5:19:58 | 39.04 | 33.04 | 460 | 1.70 | 0.17 | 25.1 |
| 4/23/2015 5:19:59 | 39.37 | 33.37 | 460 | 1.70 | 0.16 | 25.1 |
| 4/23/2015 5:20:00 | 39.70 | 33.70 | 449 | 1.71 | 0.17 | 24.6 |
| 4/23/2015 5:20:01 | 40.03 | 34.03 | 455 | 1.73 | 0.16 | 24.9 |
| 4/23/2015 5:20:02 | 40.35 | 34.35 | 457 | 1.72 | 0.16 | 25.0 |
| 4/23/2015 5:20:02 | 40.68 | 34.68 | 457 | 1.71 | 0.17 | 25.0 |
| 4/23/2015 5:20:03 | 41.01 | 35.01 | 463 | 1.70 | 0.16 | 25.3 |
| 4/23/2015 5:20:04 | 41.34 | 35.34 | 463 | 1.72 | 0.16 | 25.3 |
| 4/23/2015 5:20:05 | 41.67 | 35.67 | 460 | 1.70 | 0.17 | 25.1 |
| 4/23/2015 5:20:05 | 41.99 | 35.99 | 460 | 1.72 | 0.17 | 25.1 |
| 4/23/2015 5:20:06 | 42.32 | 36.32 | 460 | 1.70 | 0.16 | 25.1 |
| 4/23/2015 5:20:07 | 42.65 | 36.65 | 463 | 1.72 | 0.17 | 25.3 |
| 4/23/2015 5:20:08 | 42.98 | 36.98 | 463 | 1.70 | 0.17 | 25.3 |
| 4/23/2015 5:20:08 | 43.31 | 37.31 | 460 | 1.71 | 0.16 | 25.1 |
| 4/23/2015 5:20:09 | 43.64 | 37.64 | 460 | 1.72 | 0.17 | 25.1 |
| 4/23/2015 5:20:10 | 43.96 | 37.96 | 462 | 1.70 | 0.16 | 25.3 |
| 4/23/2015 5:20:11 | 44.29 | 38.29 | 457 | 1.70 | 0.16 | 25.0 |
| 4/23/2015 5:20:12 | 44.62 | 38.62 | 460 | 1.70 | 0.16 | 25.1 |
| 4/23/2015 5:20:13 | 44.95 | 38.95 | 457 | 1.69 | 0.17 | 25.0 |
| 4/23/2015 5:20:13 | 45.28 | 39.28 | 460 | 1.72 | 0.17 | 25.1 |
| 4/23/2015 5:20:14 | 45.60 | 39.60 | 460 | 1.73 | 0.16 | 25.1 |
| 4/23/2015 5:20:15 | 45.93 | 39.93 | 463 | 1.70 | 0.17 | 25.3 |
| 4/23/2015 5:20:16 | 46.26 | 40.26 | 460 | 1.69 | 0.17 | 25.2 |
| 4/23/2015 5:20:16 | 46.59 | 40.59 | 457 | 1.69 | 0.17 | 25.0 |
| 4/23/2015 5:20:17 | 46.92 | 40.92 | 450 | 1.71 | 0.17 | 24.6 |
| 4/23/2015 5:20:18 | 47.24 | 41.24 | 461 | 1.72 | 0.17 | 25.2 |
| 4/23/2015 5:20:19 | 47.57 | 41.57 | 461 | 1.72 | 0.17 | 25.2 |
| 4/23/2015 5:20:19 | 47.90 | 41.90 | 465 | 1.72 | 0.17 | 25.4 |
| 4/23/2015 5:20:21 | 48.23 | 42.23 | 460 | 1.71 | 0.17 | 25.1 |
| 4/23/2015 5:20:21 | 48.56 | 42.56 | 460 | 1.71 | 0.17 | 25.1 |
| 4/23/2015 5:20:22 | 48.88 | 42.88 | 462 | 1.69 | 0.17 | 25.3 |
| 4/23/2015 5:20:23 | 49.21 | 43.21 | 460 | 1.70 | 0.17 | 25.1 |
| 4/23/2015 5:20:24 | 49.54 | 43.54 | 457 | 1.71 | 0.17 | 25.0 |
| 4/23/2015 5:20:24 | 49.87 | 43.87 | 460 | 1.71 | 0.17 | 25.1 |
| 4/23/2015 5:20:25 | 50.20 | 44.20 | 457 | 1.70 | 0.17 | 25.0 |
| 4/23/2015 5:20:26 | 50.53 | 44.53 | 457 | 1.68 | 0.17 | 25.0 |
| 4/23/2015 5:20:27 | 50.85 | 44.85 | 457 | 1.70 | 0.17 | 25.0 |
| 4/23/2015 5:20:27 | 51.18 | 45.18 | 460 | 1.70 | 0.17 | 25.1 |
| 4/23/2015 5:20:28 | 51.51 | 45.51 | 457 | 1.70 | 0.17 | 25.0 |
| 4/23/2015 5:20:29 | 51.84 | 45.84 | 454 | 1.73 | 0.17 | 24.8 |
| 4/23/2015 5:20:30 | 52.17 | 46.17 | 452 | 1.70 | 0.17 | 24.7 |
| 4/23/2015 5:20:31 | 52.49 | 46.49 | 455 | 1.70 | 0.17 | 24.9 |
| 4/23/2015 5:20:32 | 52.82 | 46.82 | 457 | 1.71 | 0.17 | 25.0 |
| 4/23/2015 5:20:32 | 53.15 | 47.15 | 460 | 1.73 | 0.17 | 25.1 |
| 4/23/2015 5:20:33 | 53.48 | 47.48 | 451 | 1.72 | 0.17 | 24.7 |
| 4/23/2015 5:20:34 | 53.81 | 47.81 | 451 | 1.70 | 0.17 | 24.7 |
| 4/23/2015 5:20:35 | 54.13 | 48.13 | 454 | 1.72 | 0.17 | 24.8 |
| 4/23/2015 5:20:35 | 54.46 | 48.46 | 451 | 1.72 | 0.17 | 24.7 |
| 4/23/2015 5:20:36 | 54.79 | 48.79 | 456 | 1.69 | 0.17 | 25.0 |
| 4/23/2015 5:20:37 | 55.12 | 49.12 | 457 | 1.71 | 0.17 | 25.0 |
| 4/23/2015 5:20:38 | 55.45 | 49.45 | 454 | 1.70 | 0.17 | 24.8 |
| 4/23/2015 5:20:38 | 55.77 | 49.77 | 451 | 1.70 | 0.17 | 24.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:20:39 | 56.10 | 50.10 | 445 | 1.71 | 0.17 | 24.4 |
| 4/23/2015 | 5:21:41 | 56.43 | 50.43 | 74 | 1.71 | 1.16 | 4.1 |
| 4/23/2015 | 5:21:44 | 56.76 | 50.76 | 128 | 1.70 | 1.05 | 7.0 |
| 4/23/2015 | 5:21:45 | 57.09 | 51.09 | 198 | 1.70 | 1.05 | 10.8 |
| 4/23/2015 | 5:21:46 | 57.41 | 51.41 | 280 | 1.70 | 1.01 | 15.3 |
| 4/23/2015 | 5:21:48 | 57.74 | 51.74 | 296 | 1.70 | 1.01 | 16.2 |
| 4/23/2015 | 5:21:49 | 58.07 | 52.07 | 298 | 1.72 | 1.03 | 16.3 |
| 4/23/2015 | 5:22:09 | 58.40 | 52.40 | 6 | 1.70 | 1.02 | 0.3 |
| 4/23/2015 | 5:22:10 | 58.73 | 52.73 | 137 | 1.70 | 1.02 | 7.5 |
| 4/23/2015 | 5:22:11 | 59.06 | 53.06 | 273 | 1.71 | 1.03 | 14.9 |
| 4/23/2015 | 5:22:13 | 59.38 | 53.38 | 322 | 1.70 | 1.03 | 17.6 |
| 4/23/2015 | 5:22:13 | 59.71 | 53.71 | 328 | 1.70 | 1.03 | 17.9 |
| 4/23/2015 | 5:22:15 | 60.04 | 54.04 | 322 | 1.71 | 1.04 | 17.6 |
| 4/23/2015 | 5:22:16 | 60.37 | 54.37 | 321 | 1.70 | 1.03 | 17.6 |
| 4/23/2015 | 5:22:17 | 60.70 | 54.70 | 329 | 1.70 | 1.04 | 18.0 |
| 4/23/2015 | 5:22:18 | 61.02 | 55.02 | 333 | 1.69 | 1.04 | 18.2 |
| 4/23/2015 | 5:22:18 | 61.14 | 55.14 | 333 | 1.69 | 1.04 | 18.2 |

## G14 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 5:15:25

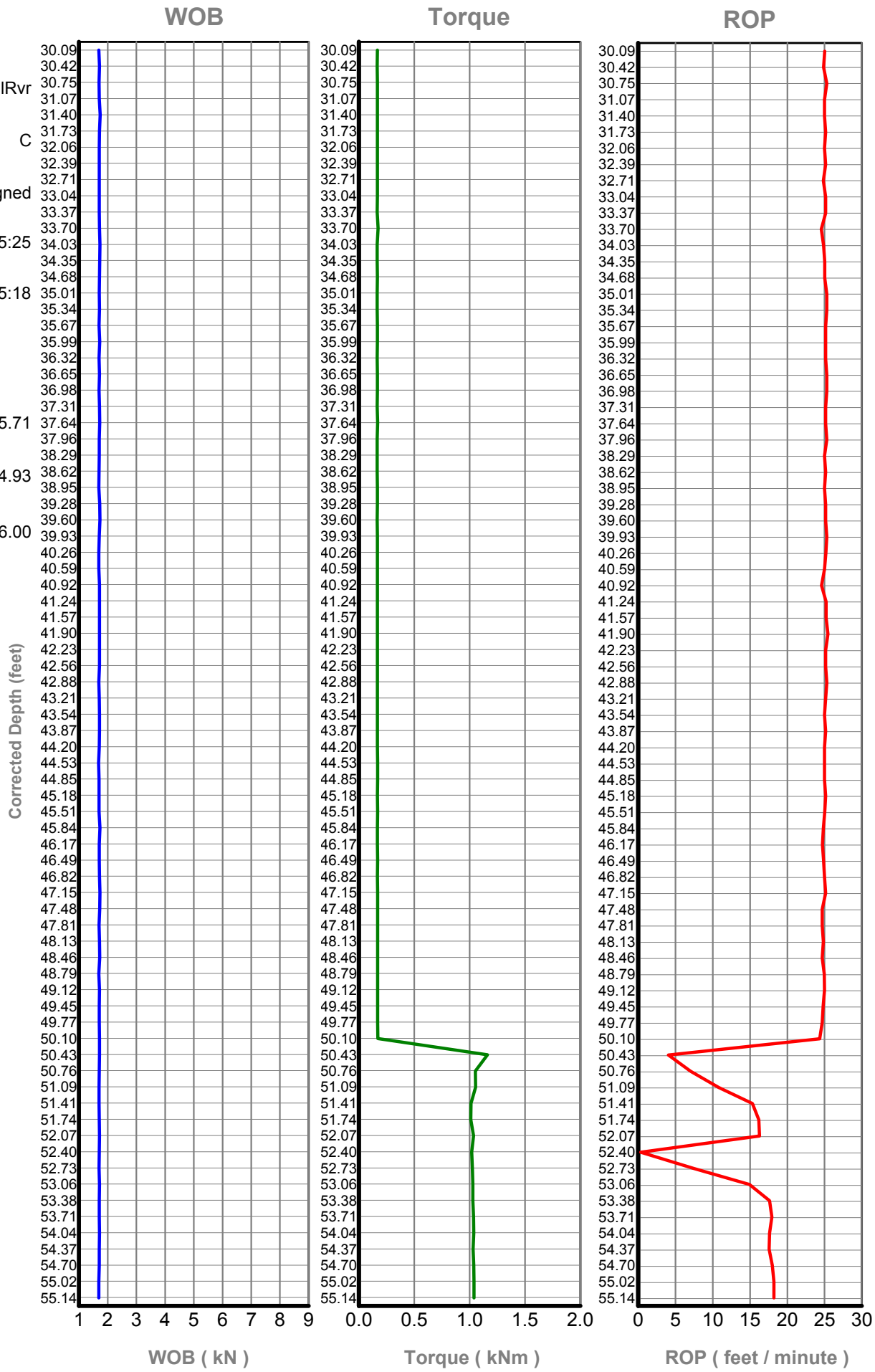
**End Date:**
4/23/2015 5:25:18

**Operator Note:**
'6 6.1 c Auto Complete'

**Northing:**
367,315.71

**Easting:**
252,054.93

**Tide (feet):**
6.00



## Hole: G15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:04:08 | 36.42 | 30.22 | 413 | 1.69 | 0.17 | 22.6 |
| 4/23/2015 5:04:09 | 36.75 | 30.55 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:16 | 37.07 | 30.87 | 41 | 1.70 | 0.17 | 2.3 |
| 4/23/2015 5:04:17 | 37.40 | 31.20 | 201 | 1.70 | 0.17 | 11.0 |
| 4/23/2015 5:04:18 | 37.73 | 31.53 | 281 | 1.70 | 0.17 | 15.4 |
| 4/23/2015 5:04:19 | 38.06 | 31.86 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 5:04:20 | 38.39 | 32.19 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 5:04:20 | 38.71 | 32.51 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 5:04:21 | 39.04 | 32.84 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 5:04:23 | 39.37 | 33.17 | 407 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 5:04:24 | 39.70 | 33.50 | 407 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 5:04:24 | 40.03 | 33.83 | 417 | 1.70 | 0.17 | 22.8 |
| 4/23/2015 5:04:25 | 40.35 | 34.15 | 410 | 1.71 | 0.17 | 22.4 |
| 4/23/2015 5:04:26 | 40.68 | 34.48 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 5:04:27 | 41.01 | 34.81 | 412 | 1.70 | 0.17 | 22.5 |
| 4/23/2015 5:04:28 | 41.34 | 35.14 | 413 | 1.71 | 0.17 | 22.6 |
| 4/23/2015 5:04:28 | 41.67 | 35.47 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:29 | 41.99 | 35.79 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 5:04:30 | 42.32 | 36.12 | 408 | 1.72 | 0.17 | 22.3 |
| 4/23/2015 5:04:31 | 42.65 | 36.45 | 410 | 1.71 | 0.17 | 22.4 |
| 4/23/2015 5:04:32 | 42.98 | 36.78 | 408 | 1.71 | 0.17 | 22.3 |
| 4/23/2015 5:04:33 | 43.31 | 37.11 | 411 | 1.70 | 0.17 | 22.5 |
| 4/23/2015 5:04:34 | 43.64 | 37.44 | 411 | 1.71 | 0.17 | 22.5 |
| 4/23/2015 5:04:35 | 43.96 | 37.76 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:36 | 44.29 | 38.09 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:36 | 44.62 | 38.42 | 410 | 1.72 | 0.16 | 22.4 |
| 4/23/2015 5:04:37 | 44.95 | 38.75 | 410 | 1.75 | 0.17 | 22.4 |
| 4/23/2015 5:04:38 | 45.28 | 39.08 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 5:04:39 | 45.60 | 39.40 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 5:04:40 | 45.93 | 39.73 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 5:04:41 | 46.26 | 40.06 | 404 | 1.72 | 0.17 | 22.1 |
| 4/23/2015 5:04:41 | 46.59 | 40.39 | 418 | 1.69 | 0.17 | 22.8 |
| 4/23/2015 5:04:42 | 46.92 | 40.72 | 412 | 1.70 | 0.17 | 22.5 |
| 4/23/2015 5:04:44 | 47.24 | 41.04 | 409 | 1.71 | 0.17 | 22.4 |
| 4/23/2015 5:04:44 | 47.57 | 41.37 | 409 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 5:04:45 | 47.90 | 41.70 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 5:04:46 | 48.23 | 42.03 | 417 | 1.71 | 0.17 | 22.8 |
| 4/23/2015 5:04:47 | 48.56 | 42.36 | 409 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 5:04:48 | 48.88 | 42.68 | 407 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 5:04:49 | 49.21 | 43.01 | 407 | 1.69 | 0.17 | 22.3 |
| 4/23/2015 5:04:49 | 49.54 | 43.34 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 5:04:50 | 49.87 | 43.67 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:51 | 50.20 | 44.00 | 414 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 5:04:52 | 50.53 | 44.33 | 404 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 5:04:53 | 50.85 | 44.65 | 401 | 1.70 | 0.17 | 21.9 |
| 4/23/2015 5:04:54 | 51.18 | 44.98 | 406 | 1.69 | 0.17 | 22.2 |
| 4/23/2015 5:04:55 | 51.51 | 45.31 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 5:04:56 | 51.84 | 45.64 | 409 | 1.72 | 0.17 | 22.4 |
| 4/23/2015 5:04:57 | 52.17 | 45.97 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 5:04:57 | 52.49 | 46.29 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 5:04:58 | 52.82 | 46.62 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 5:04:59 | 53.15 | 46.95 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 5:05:00 | 53.48 | 47.28 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 5:05:01 | 53.81 | 47.61 | 408 | 1.68 | 0.17 | 22.3 |
| 4/23/2015 5:05:37 | 54.13 | 47.93 | 18 | 1.72 | 0.34 | 1.0 |
| 4/23/2015 5:05:40 | 54.46 | 48.26 | 95 | 1.69 | 0.35 | 5.2 |
| 4/23/2015 5:05:42 | 54.79 | 48.59 | 164 | 1.70 | 0.34 | 9.0 |
| 4/23/2015 5:05:44 | 55.12 | 48.92 | 137 | 1.70 | 1.21 | 7.5 |
| 4/23/2015 5:05:46 | 55.45 | 49.25 | 205 | 1.71 | 1.16 | 11.2 |
| 4/23/2015 5:05:47 | 55.77 | 49.57 | 249 | 1.69 | 1.20 | 13.6 |
| 4/23/2015 5:05:49 | 56.10 | 49.90 | 286 | 1.70 | 1.15 | 15.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:05:50 | 56.43 | 50.23 | 283 | 1.70 | 1.16 | 15.5 |
| 4/23/2015 | 5:05:51 | 56.76 | 50.56 | 291 | 1.70 | 1.16 | 15.9 |
| 4/23/2015 | 5:05:52 | 57.09 | 50.89 | 291 | 1.71 | 1.16 | 15.9 |
| 4/23/2015 | 5:05:53 | 57.41 | 51.21 | 292 | 1.70 | 1.15 | 16.0 |
| 4/23/2015 | 5:05:54 | 57.74 | 51.54 | 291 | 1.71 | 1.15 | 15.9 |
| 4/23/2015 | 5:05:56 | 58.07 | 51.87 | 287 | 1.70 | 1.15 | 15.7 |
| 4/23/2015 | 5:05:57 | 58.40 | 52.20 | 286 | 1.71 | 1.14 | 15.6 |
| 4/23/2015 | 5:05:59 | 58.73 | 52.53 | 287 | 1.71 | 1.14 | 15.7 |
| 4/23/2015 | 5:06:00 | 59.06 | 52.86 | 292 | 1.72 | 1.14 | 16.0 |
| 4/23/2015 | 5:06:01 | 59.38 | 53.18 | 292 | 1.70 | 1.14 | 16.0 |
| 4/23/2015 | 5:06:02 | 59.71 | 53.51 | 289 | 1.70 | 1.14 | 15.8 |
| 4/23/2015 | 5:06:03 | 60.04 | 53.84 | 289 | 1.70 | 1.14 | 15.8 |
| 4/23/2015 | 5:06:04 | 60.37 | 54.17 | 291 | 1.73 | 1.16 | 15.9 |
| 4/23/2015 | 5:06:06 | 60.70 | 54.50 | 292 | 1.70 | 1.13 | 16.0 |
| 4/23/2015 | 5:06:07 | 61.02 | 54.82 | 292 | 1.69 | 1.13 | 16.0 |
| 4/23/2015 | 5:06:10 | 61.34 | 55.14 | 156 | 1.65 | 1.11 | 8.5 |

## G15 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 5:01:25

**End Date:**
4/23/2015 5:08:52

**Operator Note:**
'6.2 6.2 c Auto Complete'

**Northing:**
367,355.07

**Easting:**
252,106.67

**Tide (feet):**
6.20



## Hole: G16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:15:43 | 32.81 | 30.31 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:15:43 | 33.14 | 30.64 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:15:43 | 33.46 | 30.96 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:44 | 33.79 | 31.29 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:44 | 34.12 | 31.62 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 21:15:45 | 34.45 | 31.95 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 21:15:45 | 34.78 | 32.28 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 21:15:45 | 35.11 | 32.61 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:15:46 | 35.43 | 32.93 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:15:46 | 35.76 | 33.26 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:15:46 | 36.09 | 33.59 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:15:47 | 36.42 | 33.92 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:15:47 | 36.75 | 34.25 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 21:15:48 | 37.07 | 34.57 | 879 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 21:15:48 | 37.40 | 34.90 | 879 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 21:15:48 | 37.73 | 35.23 | 876 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:15:49 | 38.06 | 35.56 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:15:49 | 38.39 | 35.89 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:15:50 | 38.71 | 36.21 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:15:50 | 39.04 | 36.54 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:15:50 | 39.37 | 36.87 | 890 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 21:15:51 | 39.70 | 37.20 | 890 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 21:15:51 | 40.03 | 37.53 | 890 | 1.66 | 1.29 | 48.6 |
| 4/22/2015 21:15:51 | 40.35 | 37.85 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 21:15:52 | 40.68 | 38.18 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:52 | 41.01 | 38.51 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:53 | 41.34 | 38.84 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:54 | 41.67 | 39.17 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:54 | 41.99 | 39.49 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:54 | 42.32 | 39.82 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 21:15:55 | 42.65 | 40.15 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:15:55 | 42.98 | 40.48 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:15:55 | 43.31 | 40.81 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:56 | 43.64 | 41.14 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:15:56 | 43.96 | 41.46 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 21:15:57 | 44.29 | 41.79 | 888 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:57 | 44.62 | 42.12 | 888 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:57 | 44.95 | 42.45 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:58 | 45.28 | 42.78 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:15:58 | 45.60 | 43.10 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:59 | 45.93 | 43.43 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:15:59 | 46.26 | 43.76 | 887 | 1.66 | 1.29 | 48.5 |
| 4/22/2015 21:15:59 | 46.59 | 44.09 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:16:00 | 46.92 | 44.42 | 884 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:16:51 | 47.24 | 44.74 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 21:16:57 | 47.57 | 45.07 | 35 | 1.66 | 1.29 | 1.9 |
| 4/22/2015 21:16:58 | 47.90 | 45.40 | 168 | 1.66 | 1.29 | 9.2 |
| 4/22/2015 21:17:01 | 48.23 | 45.73 | 120 | 1.66 | 1.29 | 6.6 |
| 4/22/2015 21:17:08 | 48.56 | 46.06 | 26 | 1.66 | 1.29 | 1.4 |
| 4/22/2015 21:17:12 | 48.88 | 46.38 | 108 | 1.66 | 1.29 | 5.9 |
| 4/22/2015 21:17:38 | 49.21 | 46.71 | 44 | 1.66 | 1.29 | 2.4 |
| 4/22/2015 21:17:40 | 49.54 | 47.04 | 218 | 1.66 | 1.29 | 11.9 |
| 4/22/2015 21:17:41 | 49.87 | 47.37 | 273 | 1.66 | 1.29 | 14.9 |
| 4/22/2015 21:17:43 | 50.20 | 47.70 | 173 | 1.66 | 1.29 | 9.5 |
| 4/22/2015 21:17:46 | 50.53 | 48.03 | 112 | 1.66 | 1.29 | 6.1 |
| 4/22/2015 21:17:51 | 50.85 | 48.35 | 95 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 21:17:55 | 51.18 | 48.68 | 87 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 21:17:58 | 51.51 | 49.01 | 104 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 21:18:03 | 51.84 | 49.34 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 21:18:07 | 52.17 | 49.67 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 21:18:12 | 52.49 | 49.99 | 67 | 1.66 | 1.29 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 21:18:18 | 52.82 | 50.32 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 | 21:18:23 | 53.15 | 50.65 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 21:18:27 | 53.48 | 50.98 | 87 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 | 21:18:31 | 53.81 | 51.31 | 78 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 21:18:38 | 54.13 | 51.63 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 | 21:18:43 | 54.46 | 51.96 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 | 21:18:47 | 54.79 | 52.29 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 21:18:51 | 55.12 | 52.62 | 102 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 | 21:18:56 | 55.45 | 52.95 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 21:19:01 | 55.77 | 53.27 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 21:23:20 | 56.10 | 53.60 | 35 | 1.66 | 1.29 | 1.9 |
| 4/22/2015 | 21:23:29 | 56.43 | 53.93 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 | 21:23:38 | 56.76 | 54.26 | 47 | 1.66 | 1.29 | 2.6 |
| 4/22/2015 | 21:23:38 | 56.83 | 54.33 | 55 | 1.66 | 1.29 | 3.0 |

## G16 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:11:35

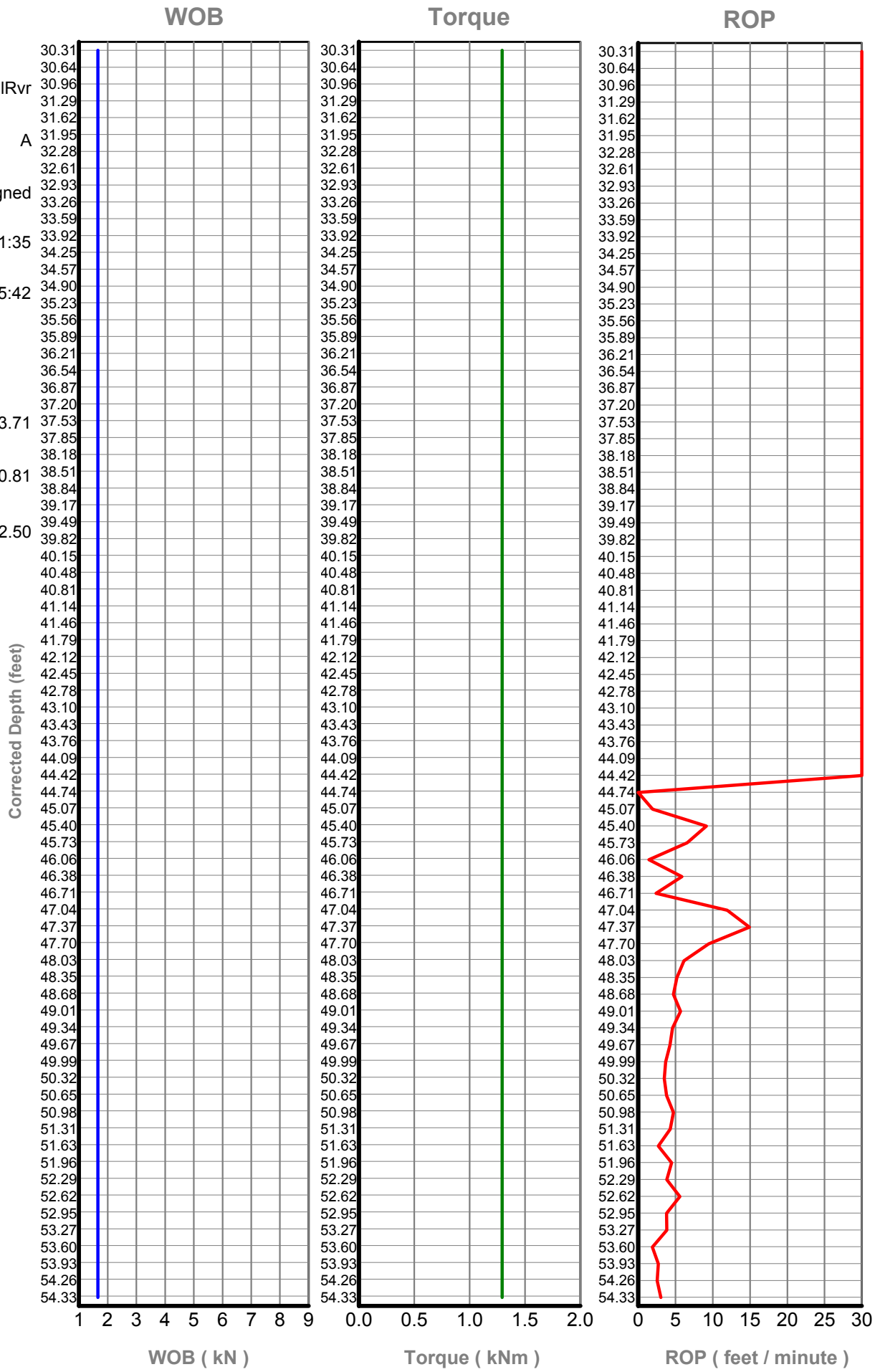
**End Date:**
4/22/2015 21:35:42

**Operator Note:**
'2.5 '1.9 2.6 b Auto Complete'

**Northing:**
367,413.71

**Easting:**
252,170.81

**Tide (feet):**
2.50



## Hole: G17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:05:53 | 32.81 | 30.21 | 873 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 21:05:54 | 33.14 | 30.54 | 876 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:05:54 | 33.46 | 30.86 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 21:05:55 | 33.79 | 31.19 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:05:55 | 34.12 | 31.52 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:05:55 | 34.45 | 31.85 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:05:56 | 34.78 | 32.18 | 866 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:05:56 | 35.11 | 32.51 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 21:05:57 | 35.43 | 32.83 | 866 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:05:57 | 35.76 | 33.16 | 866 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:05:57 | 36.09 | 33.49 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 21:05:58 | 36.42 | 33.82 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:05:58 | 36.75 | 34.15 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:05:59 | 37.07 | 34.47 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:06:00 | 37.40 | 34.80 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:06:00 | 37.73 | 35.13 | 853 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 21:06:00 | 38.06 | 35.46 | 864 | 1.66 | 1.29 | 47.3 |
| 4/22/2015 21:06:01 | 38.39 | 35.79 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:06:01 | 38.71 | 36.11 | 873 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 21:06:02 | 39.04 | 36.44 | 873 | 1.66 | 1.29 | 47.8 |
| 4/22/2015 21:06:18 | 39.37 | 36.77 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 21:06:19 | 39.70 | 37.10 | 82 | 1.66 | 1.29 | 4.5 |
| 4/22/2015 21:06:19 | 40.03 | 37.43 | 247 | 1.66 | 1.29 | 13.5 |
| 4/22/2015 21:06:20 | 40.35 | 37.75 | 410 | 1.66 | 1.29 | 22.4 |
| 4/22/2015 21:06:20 | 40.68 | 38.08 | 575 | 1.66 | 1.29 | 31.4 |
| 4/22/2015 21:06:21 | 41.01 | 38.41 | 735 | 1.66 | 1.29 | 40.2 |
| 4/22/2015 21:06:21 | 41.34 | 38.74 | 735 | 1.66 | 1.29 | 40.2 |
| 4/22/2015 21:06:21 | 41.67 | 39.07 | 823 | 1.66 | 1.29 | 45.0 |
| 4/22/2015 21:06:22 | 41.99 | 39.39 | 826 | 1.66 | 1.29 | 45.2 |
| 4/22/2015 21:06:22 | 42.32 | 39.72 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 21:06:23 | 42.65 | 40.05 | 835 | 1.66 | 1.29 | 45.6 |
| 4/22/2015 21:06:24 | 42.98 | 40.38 | 836 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 21:06:24 | 43.31 | 40.71 | 836 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 21:06:24 | 43.64 | 41.04 | 841 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 21:06:25 | 43.96 | 41.36 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 21:06:25 | 44.29 | 41.69 | 841 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 21:06:26 | 44.62 | 42.02 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 21:06:26 | 44.95 | 42.35 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 21:06:26 | 45.28 | 42.68 | 851 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 21:06:27 | 45.60 | 43.00 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 21:06:27 | 45.93 | 43.33 | 840 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 21:06:28 | 46.26 | 43.66 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 21:06:53 | 46.59 | 43.99 | 18 | 1.66 | 1.29 | 1.0 |
| 4/22/2015 21:07:09 | 46.92 | 44.32 | 18 | 1.66 | 1.29 | 1.0 |
| 4/22/2015 21:07:16 | 47.24 | 44.64 | 47 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 21:07:23 | 47.57 | 44.97 | 53 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 21:07:30 | 47.90 | 45.30 | 53 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 21:07:31 | 47.95 | 45.35 | 49 | 1.66 | 1.29 | 2.7 |

## G17 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:02:24

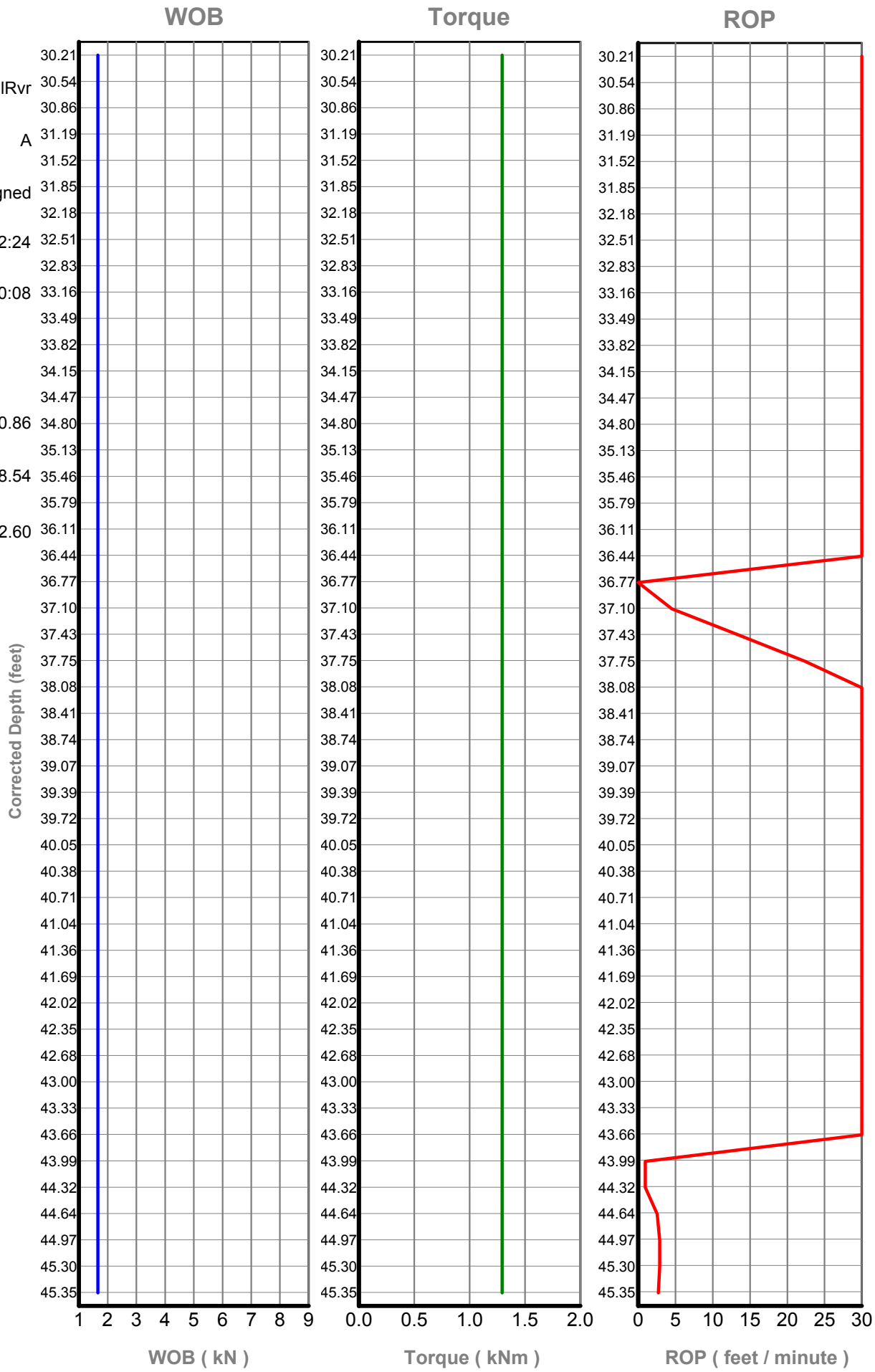
**End Date:**
4/22/2015 21:10:08

**Operator Note:**
'2.6 '2.1 2.8 b Auto Complete'

**Northing:**
367,450.86

**Easting:**
252,218.54

**Tide (feet):**
2.60



## Hole: G18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:07:13 | 32.81 | 30.31 | 506 | 1.70 | 0.16 | 27.7 |
| 4/22/2015 21:07:14 | 33.14 | 30.64 | 492 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:14 | 33.46 | 30.96 | 492 | 1.72 | 0.16 | 26.9 |
| 4/22/2015 21:07:15 | 33.79 | 31.29 | 495 | 1.69 | 0.16 | 27.1 |
| 4/22/2015 21:07:16 | 34.12 | 31.62 | 490 | 1.70 | 0.16 | 26.8 |
| 4/22/2015 21:07:16 | 34.45 | 31.95 | 492 | 1.69 | 0.16 | 26.9 |
| 4/22/2015 21:07:17 | 34.78 | 32.28 | 498 | 1.69 | 0.16 | 27.2 |
| 4/22/2015 21:07:18 | 35.11 | 32.61 | 497 | 1.70 | 0.16 | 27.2 |
| 4/22/2015 21:07:18 | 35.43 | 32.93 | 505 | 1.72 | 0.16 | 27.6 |
| 4/22/2015 21:07:20 | 35.76 | 33.26 | 486 | 1.69 | 0.16 | 26.6 |
| 4/22/2015 21:07:20 | 36.09 | 33.59 | 486 | 1.70 | 0.16 | 26.6 |
| 4/22/2015 21:07:21 | 36.42 | 33.92 | 492 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:22 | 36.75 | 34.25 | 484 | 1.68 | 0.16 | 26.5 |
| 4/22/2015 21:07:22 | 37.07 | 34.57 | 490 | 1.70 | 0.16 | 26.8 |
| 4/22/2015 21:07:23 | 37.40 | 34.90 | 490 | 1.68 | 0.16 | 26.8 |
| 4/22/2015 21:07:24 | 37.73 | 35.23 | 498 | 1.73 | 0.16 | 27.3 |
| 4/22/2015 21:07:24 | 38.06 | 35.56 | 503 | 1.70 | 0.16 | 27.5 |
| 4/22/2015 21:07:25 | 38.39 | 35.89 | 500 | 1.69 | 0.16 | 27.3 |
| 4/22/2015 21:07:26 | 38.71 | 36.21 | 500 | 1.69 | 0.16 | 27.3 |
| 4/22/2015 21:07:26 | 39.04 | 36.54 | 497 | 1.72 | 0.16 | 27.2 |
| 4/22/2015 21:07:27 | 39.37 | 36.87 | 497 | 1.68 | 0.16 | 27.2 |
| 4/22/2015 21:07:28 | 39.70 | 37.20 | 500 | 1.70 | 0.16 | 27.3 |
| 4/22/2015 21:07:28 | 40.03 | 37.53 | 497 | 1.72 | 0.16 | 27.2 |
| 4/22/2015 21:07:29 | 40.35 | 37.85 | 500 | 1.70 | 0.16 | 27.4 |
| 4/22/2015 21:07:30 | 40.68 | 38.18 | 500 | 1.68 | 0.16 | 27.3 |
| 4/22/2015 21:07:31 | 41.01 | 38.51 | 500 | 1.68 | 0.16 | 27.3 |
| 4/22/2015 21:07:32 | 41.34 | 38.84 | 503 | 1.70 | 0.16 | 27.5 |
| 4/22/2015 21:07:32 | 41.67 | 39.17 | 500 | 1.70 | 0.16 | 27.3 |
| 4/22/2015 21:07:33 | 41.99 | 39.49 | 494 | 1.70 | 0.16 | 27.0 |
| 4/22/2015 21:07:34 | 42.32 | 39.82 | 491 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:34 | 42.65 | 40.15 | 494 | 1.70 | 0.16 | 27.0 |
| 4/22/2015 21:07:35 | 42.98 | 40.48 | 494 | 1.68 | 0.16 | 27.0 |
| 4/22/2015 21:07:36 | 43.31 | 40.81 | 500 | 1.73 | 0.16 | 27.3 |
| 4/22/2015 21:07:37 | 43.64 | 41.14 | 497 | 1.71 | 0.16 | 27.2 |
| 4/22/2015 21:07:37 | 43.96 | 41.46 | 492 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:38 | 44.29 | 41.79 | 497 | 1.70 | 0.16 | 27.2 |
| 4/22/2015 21:07:39 | 44.62 | 42.12 | 495 | 1.71 | 0.16 | 27.0 |
| 4/22/2015 21:07:39 | 44.95 | 42.45 | 492 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:41 | 45.28 | 42.78 | 491 | 1.68 | 0.16 | 26.9 |
| 4/22/2015 21:07:41 | 45.60 | 43.10 | 491 | 1.70 | 0.16 | 26.9 |
| 4/22/2015 21:07:42 | 45.93 | 43.43 | 491 | 1.70 | 0.16 | 26.9 |
| 4/22/2015 21:07:43 | 46.26 | 43.76 | 494 | 1.70 | 0.16 | 27.0 |
| 4/22/2015 21:07:43 | 46.59 | 44.09 | 494 | 1.68 | 0.16 | 27.0 |
| 4/22/2015 21:07:44 | 46.92 | 44.42 | 494 | 1.67 | 0.16 | 27.0 |
| 4/22/2015 21:07:45 | 47.24 | 44.74 | 494 | 1.69 | 0.16 | 27.0 |
| 4/22/2015 21:07:45 | 47.57 | 45.07 | 491 | 1.71 | 0.16 | 26.9 |
| 4/22/2015 21:07:46 | 47.90 | 45.40 | 494 | 1.69 | 0.16 | 27.0 |
| 4/22/2015 21:08:25 | 48.23 | 45.73 | 34 | 1.72 | 1.54 | 1.9 |
| 4/22/2015 21:08:32 | 48.56 | 46.06 | 0 | 1.73 | 1.25 | 0.0 |
| 4/22/2015 21:08:39 | 48.88 | 46.38 | 45 | 1.79 | 1.12 | 2.5 |
| 4/22/2015 21:08:48 | 49.21 | 46.71 | 43 | 1.72 | 1.14 | 2.4 |
| 4/22/2015 21:08:56 | 49.54 | 47.04 | 41 | 1.70 | 1.19 | 2.2 |
| 4/22/2015 21:08:58 | 49.65 | 47.15 | 51 | 1.72 | 1.08 | 2.8 |

## G18 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:05:16

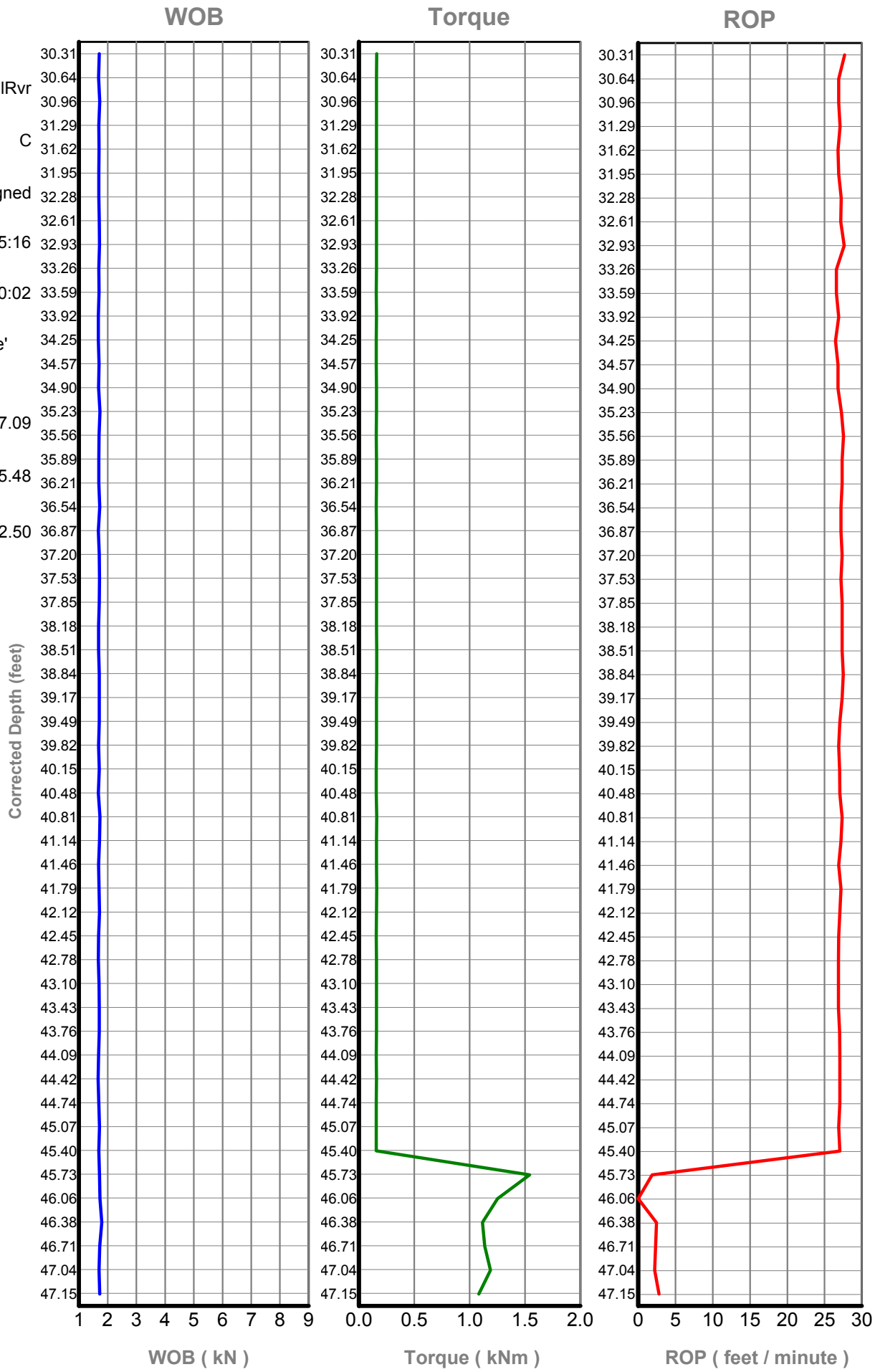
**End Date:**
4/22/2015 21:10:02

**Operator Note:**
'2.5 2.8 c Auto Complete'

**Northing:**
367,497.09

**Easting:**
252,275.48

**Tide (feet):**
2.50



## Hole: G19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:21:39 | 36.42 | 30.22 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:21:40 | 36.75 | 30.55 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:21:40 | 37.07 | 30.87 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:21:40 | 37.40 | 31.20 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:21:41 | 37.73 | 31.53 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 15:21:41 | 38.06 | 31.86 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 15:21:41 | 38.39 | 32.19 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:21:42 | 38.71 | 32.51 | 1,007 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:42 | 39.04 | 32.84 | 1,007 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:42 | 39.37 | 33.17 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:43 | 39.70 | 33.50 | 1,019 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:21:43 | 40.03 | 33.83 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:21:44 | 40.35 | 34.15 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:21:44 | 40.68 | 34.48 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:21:44 | 41.01 | 34.81 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:21:45 | 41.34 | 35.14 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:21:45 | 41.67 | 35.47 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:21:45 | 41.99 | 35.79 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:46 | 42.32 | 36.12 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:46 | 42.65 | 36.45 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:46 | 42.98 | 36.78 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:47 | 43.31 | 37.11 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:47 | 43.64 | 37.44 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:21:48 | 43.96 | 37.76 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:48 | 44.29 | 38.09 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:48 | 44.62 | 38.42 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:49 | 44.95 | 38.75 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:49 | 45.28 | 39.08 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:49 | 45.60 | 39.40 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:50 | 45.93 | 39.73 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:50 | 46.26 | 40.06 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:50 | 46.59 | 40.39 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:21:51 | 46.92 | 40.72 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:21:51 | 47.24 | 41.04 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:21:51 | 47.57 | 41.37 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:52 | 47.90 | 41.70 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:52 | 48.23 | 42.03 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:53 | 48.56 | 42.36 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:21:53 | 48.88 | 42.68 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:21:53 | 49.21 | 43.01 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:21:54 | 49.54 | 43.34 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:21:54 | 49.87 | 43.67 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:21:54 | 50.20 | 44.00 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 15:21:55 | 50.53 | 44.33 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 15:21:55 | 50.85 | 44.65 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:55 | 51.18 | 44.98 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:56 | 51.51 | 45.31 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:21:56 | 51.84 | 45.64 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 15:21:56 | 52.17 | 45.97 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:21:57 | 52.49 | 46.29 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:21:57 | 52.82 | 46.62 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 15:21:57 | 53.15 | 46.95 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:21:58 | 53.48 | 47.28 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:21:59 | 53.81 | 47.61 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:22:06 | 54.13 | 47.93 | 116 | 1.66 | 1.29 | 6.4 |
| 4/22/2015 15:22:06 | 54.46 | 48.26 | 116 | 1.66 | 1.29 | 6.4 |
| 4/22/2015 15:22:07 | 54.79 | 48.59 | 241 | 1.66 | 1.29 | 13.2 |
| 4/22/2015 15:22:07 | 55.12 | 48.92 | 241 | 1.66 | 1.29 | 13.2 |
| 4/22/2015 15:22:08 | 55.45 | 49.25 | 241 | 1.66 | 1.29 | 13.2 |
| 4/22/2015 15:22:08 | 55.77 | 49.57 | 421 | 1.66 | 1.29 | 23.0 |
| 4/22/2015 15:22:15 | 56.10 | 49.90 | 0 | 1.66 | 1.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:22:15 | 56.43 | 50.23 | 95 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 | 15:22:16 | 56.76 | 50.56 | 95 | 1.66 | 1.29 | 5.2 |
| 4/22/2015 | 15:22:16 | 57.09 | 50.89 | 252 | 1.66 | 1.29 | 13.8 |
| 4/22/2015 | 15:22:17 | 57.41 | 51.21 | 397 | 1.66 | 1.29 | 21.7 |
| 4/22/2015 | 15:22:17 | 57.74 | 51.54 | 397 | 1.66 | 1.29 | 21.7 |
| 4/22/2015 | 15:22:18 | 58.07 | 51.87 | 554 | 1.66 | 1.29 | 30.3 |
| 4/22/2015 | 15:22:18 | 58.40 | 52.20 | 706 | 1.66 | 1.29 | 38.6 |
| 4/22/2015 | 15:22:19 | 58.73 | 52.53 | 760 | 1.66 | 1.29 | 41.6 |
| 4/22/2015 | 15:22:19 | 59.06 | 52.86 | 760 | 1.66 | 1.29 | 41.6 |
| 4/22/2015 | 15:22:19 | 59.38 | 53.18 | 753 | 1.66 | 1.29 | 41.2 |
| 4/22/2015 | 15:22:20 | 59.71 | 53.51 | 700 | 1.66 | 1.29 | 38.3 |
| 4/22/2015 | 15:22:21 | 60.04 | 53.84 | 533 | 1.66 | 1.29 | 29.1 |
| 4/22/2015 | 15:22:23 | 60.37 | 54.17 | 277 | 1.66 | 1.29 | 15.1 |
| 4/22/2015 | 15:22:24 | 60.70 | 54.50 | 240 | 1.66 | 1.29 | 13.1 |
| 4/22/2015 | 15:22:25 | 61.02 | 54.82 | 274 | 1.66 | 1.29 | 15.0 |
| 4/22/2015 | 15:22:26 | 61.19 | 54.99 | 300 | 1.66 | 1.29 | 16.4 |

## G19 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:18:45

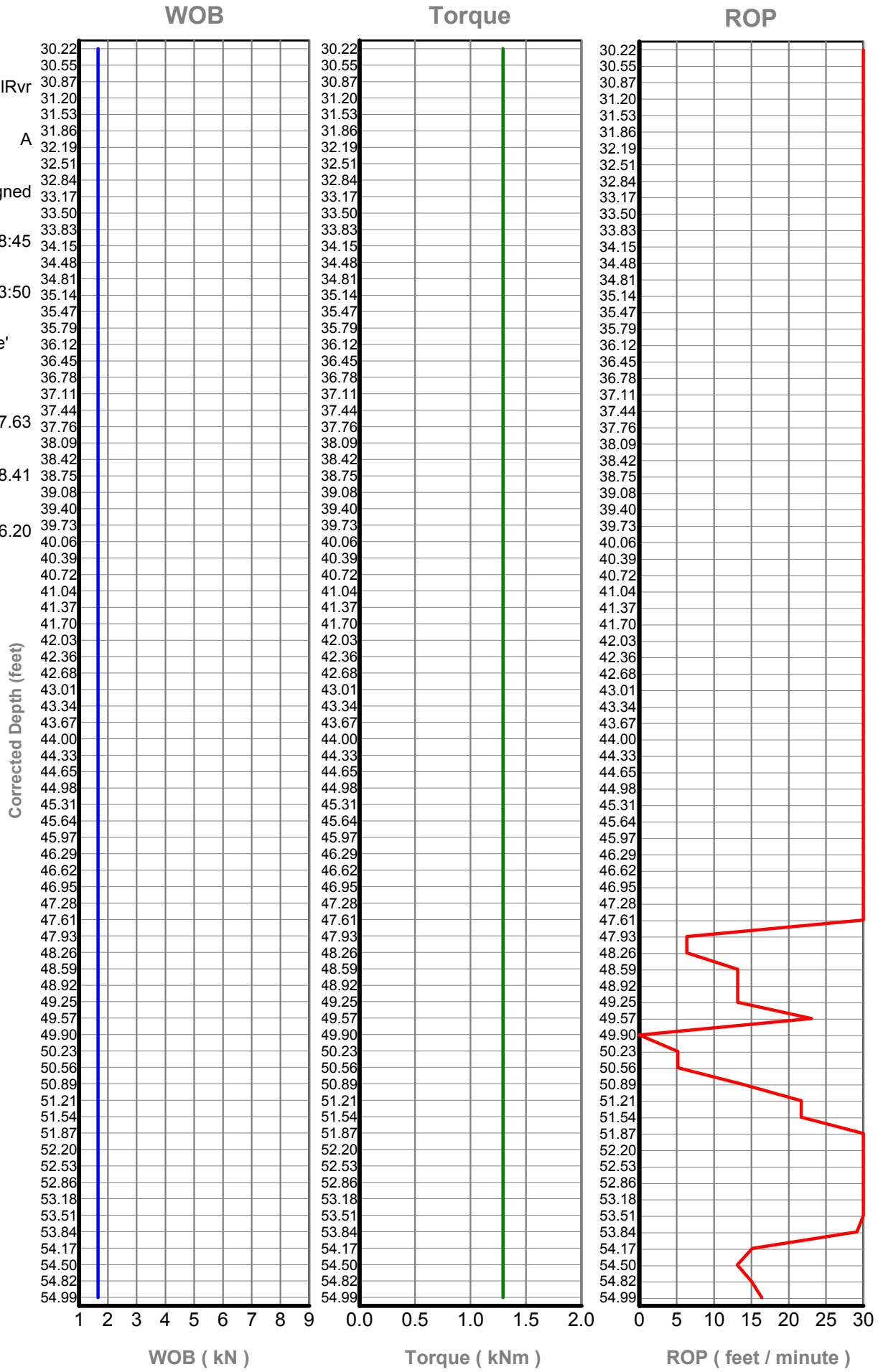
**End Date:**
4/22/2015 15:23:50

**Operator Note:**
'6.2 6.1 b Auto Complete'

**Northing:**
367,557.63

**Easting:**
252,358.41

**Tide (feet):**
6.20



## Hole: G2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:41:43 | 36.42 | 30.22 | 899 | 0.26 | 0.35 | 49.2 |
| 4/23/2015 4:41:43 | 36.75 | 30.55 | 899 | 0.26 | 0.35 | 49.2 |
| 4/23/2015 4:41:43 | 37.07 | 30.87 | 893 | 0.26 | 0.36 | 48.9 |
| 4/23/2015 4:41:44 | 37.40 | 31.20 | 897 | 0.26 | 0.35 | 49.0 |
| 4/23/2015 4:41:44 | 37.73 | 31.53 | 905 | 0.28 | 0.36 | 49.5 |
| 4/23/2015 4:41:45 | 38.06 | 31.86 | 905 | 0.28 | 0.36 | 49.5 |
| 4/23/2015 4:41:45 | 38.39 | 32.19 | 911 | 0.20 | 0.36 | 49.8 |
| 4/23/2015 4:41:46 | 38.71 | 32.51 | 917 | 0.26 | 0.36 | 50.1 |
| 4/23/2015 4:41:46 | 39.04 | 32.84 | 922 | 0.26 | 0.36 | 50.4 |
| 4/23/2015 4:41:47 | 39.37 | 33.17 | 922 | 0.26 | 0.36 | 50.4 |
| 4/23/2015 4:41:47 | 39.70 | 33.50 | 930 | 0.26 | 0.35 | 50.9 |
| 4/23/2015 4:41:47 | 40.03 | 33.83 | 925 | 0.26 | 0.36 | 50.6 |
| 4/23/2015 4:41:48 | 40.35 | 34.15 | 920 | 0.25 | 0.36 | 50.3 |
| 4/23/2015 4:41:48 | 40.68 | 34.48 | 920 | 0.25 | 0.36 | 50.3 |
| 4/23/2015 4:41:48 | 41.01 | 34.81 | 925 | 0.25 | 0.36 | 50.6 |
| 4/23/2015 4:41:49 | 41.34 | 35.14 | 916 | 0.26 | 0.36 | 50.1 |
| 4/23/2015 4:41:49 | 41.67 | 35.47 | 913 | 0.26 | 0.36 | 50.0 |
| 4/23/2015 4:41:50 | 41.99 | 35.79 | 913 | 0.26 | 0.36 | 50.0 |
| 4/23/2015 4:41:50 | 42.32 | 36.12 | 911 | 0.26 | 0.36 | 49.8 |
| 4/23/2015 4:41:50 | 42.65 | 36.45 | 914 | 0.26 | 0.36 | 50.0 |
| 4/23/2015 4:41:51 | 42.98 | 36.78 | 911 | 0.25 | 0.35 | 49.8 |
| 4/23/2015 4:41:51 | 43.31 | 37.11 | 911 | 0.25 | 0.35 | 49.8 |
| 4/23/2015 4:41:51 | 43.64 | 37.44 | 913 | 0.24 | 0.35 | 49.9 |
| 4/23/2015 4:41:52 | 43.96 | 37.76 | 911 | 0.28 | 0.36 | 49.8 |
| 4/23/2015 4:41:52 | 44.29 | 38.09 | 922 | 0.25 | 0.35 | 50.4 |
| 4/23/2015 4:41:53 | 44.62 | 38.42 | 922 | 0.25 | 0.35 | 50.4 |
| 4/23/2015 4:42:10 | 44.95 | 38.75 | 0 | 0.14 | 0.36 | 0.0 |
| 4/23/2015 4:42:10 | 45.28 | 39.08 | 77 | 0.18 | 0.33 | 4.2 |
| 4/23/2015 4:42:11 | 45.60 | 39.40 | 240 | 0.19 | 0.32 | 13.1 |
| 4/23/2015 4:42:11 | 45.93 | 39.73 | 414 | 0.18 | 0.32 | 22.6 |
| 4/23/2015 4:42:12 | 46.26 | 40.06 | 585 | 0.18 | 0.33 | 32.0 |
| 4/23/2015 4:42:12 | 46.59 | 40.39 | 761 | 0.19 | 0.33 | 41.6 |
| 4/23/2015 4:42:13 | 46.92 | 40.72 | 761 | 0.19 | 0.33 | 41.6 |
| 4/23/2015 4:42:13 | 47.24 | 41.04 | 859 | 0.19 | 0.32 | 46.9 |
| 4/23/2015 4:42:13 | 47.57 | 41.37 | 873 | 0.17 | 0.33 | 47.7 |
| 4/23/2015 4:42:14 | 47.90 | 41.70 | 873 | 0.19 | 0.33 | 47.7 |
| 4/23/2015 4:42:14 | 48.23 | 42.03 | 873 | 0.19 | 0.33 | 47.7 |
| 4/23/2015 4:42:14 | 48.56 | 42.36 | 876 | 0.19 | 0.32 | 47.9 |
| 4/23/2015 4:42:15 | 48.88 | 42.68 | 870 | 0.22 | 0.33 | 47.6 |
| 4/23/2015 4:42:15 | 49.21 | 43.01 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 4:42:16 | 49.54 | 43.34 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 4:42:17 | 49.87 | 43.67 | 879 | 0.19 | 0.33 | 48.1 |
| 4/23/2015 4:42:17 | 50.20 | 44.00 | 885 | 0.19 | 0.32 | 48.4 |
| 4/23/2015 4:42:17 | 50.53 | 44.33 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 4:42:18 | 50.85 | 44.65 | 890 | 0.19 | 0.32 | 48.7 |
| 4/23/2015 4:42:18 | 51.18 | 44.98 | 890 | 0.19 | 0.32 | 48.7 |
| 4/23/2015 4:42:18 | 51.51 | 45.31 | 887 | 0.19 | 0.33 | 48.5 |
| 4/23/2015 4:42:19 | 51.84 | 45.64 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 4:42:19 | 52.17 | 45.97 | 876 | 0.19 | 0.33 | 47.9 |
| 4/23/2015 4:42:20 | 52.49 | 46.29 | 876 | 0.19 | 0.33 | 47.9 |
| 4/23/2015 4:42:20 | 52.82 | 46.62 | 885 | 0.19 | 0.33 | 48.4 |
| 4/23/2015 4:42:20 | 53.15 | 46.95 | 876 | 0.19 | 0.33 | 47.9 |
| 4/23/2015 4:42:21 | 53.48 | 47.28 | 876 | 0.20 | 0.32 | 47.9 |
| 4/23/2015 4:42:21 | 53.81 | 47.61 | 873 | 0.19 | 0.33 | 47.8 |
| 4/23/2015 4:42:22 | 54.13 | 47.93 | 873 | 0.19 | 0.33 | 47.8 |
| 4/23/2015 4:42:22 | 54.46 | 48.26 | 871 | 0.19 | 0.33 | 47.6 |
| 4/23/2015 4:42:22 | 54.79 | 48.59 | 871 | 0.20 | 0.32 | 47.6 |
| 4/23/2015 4:42:23 | 55.12 | 48.92 | 874 | 0.20 | 0.32 | 47.8 |
| 4/23/2015 4:42:23 | 55.45 | 49.25 | 868 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 4:42:24 | 55.77 | 49.57 | 868 | 0.20 | 0.33 | 47.5 |
| 4/23/2015 4:42:24 | 56.10 | 49.90 | 806 | 0.17 | 0.39 | 44.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:42:45 | 56.43 | 50.23 | 81 | 4.98 | 0.40 | 4.4 |
| 4/23/2015 | 4:42:47 | 56.76 | 50.56 | 156 | 3.33 | 0.36 | 8.5 |
| 4/23/2015 | 4:42:48 | 57.09 | 50.89 | 213 | 2.76 | 0.35 | 11.7 |
| 4/23/2015 | 4:42:48 | 57.41 | 51.21 | 304 | 2.73 | 0.35 | 16.6 |
| 4/23/2015 | 4:42:49 | 57.74 | 51.54 | 409 | 2.67 | 0.34 | 22.4 |
| 4/23/2015 | 4:42:49 | 58.07 | 51.87 | 506 | 2.90 | 0.35 | 27.6 |
| 4/23/2015 | 4:42:50 | 58.40 | 52.20 | 596 | 2.77 | 0.35 | 32.6 |
| 4/23/2015 | 4:42:51 | 58.73 | 52.53 | 644 | 2.45 | 0.34 | 35.2 |
| 4/23/2015 | 4:42:51 | 59.06 | 52.86 | 662 | 2.45 | 0.35 | 36.2 |
| 4/23/2015 | 4:42:52 | 59.38 | 53.18 | 675 | 2.44 | 0.34 | 36.9 |
| 4/23/2015 | 4:42:52 | 59.71 | 53.51 | 663 | 2.42 | 0.34 | 36.2 |
| 4/23/2015 | 4:42:53 | 60.04 | 53.84 | 663 | 2.42 | 0.35 | 36.2 |
| 4/23/2015 | 4:42:53 | 60.37 | 54.17 | 677 | 2.42 | 0.35 | 37.0 |
| 4/23/2015 | 4:42:54 | 60.70 | 54.50 | 680 | 2.42 | 0.35 | 37.2 |
| 4/23/2015 | 4:42:55 | 61.02 | 54.82 | 381 | 2.41 | 0.34 | 20.8 |
| 4/23/2015 | 4:42:56 | 61.35 | 55.15 | 346 | 2.42 | 0.34 | 18.9 |
| 4/23/2015 | 4:42:56 | 61.42 | 55.22 | 346 | 2.42 | 0.34 | 18.9 |

## G2 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:38:38

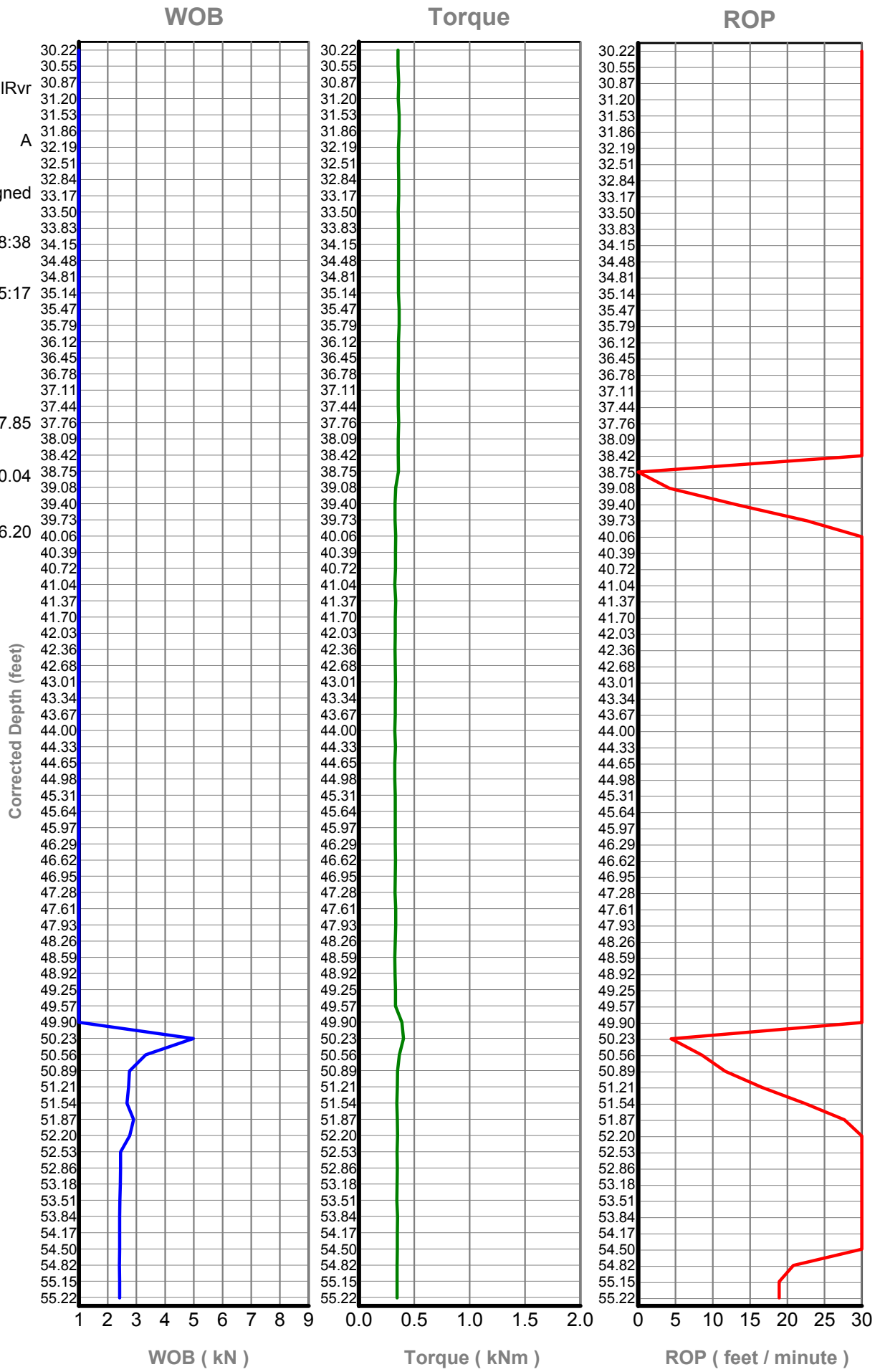
**End Date:**
4/23/2015 4:45:17

**Operator Note:**
'6.2 '2.1 '6.2 6.2 b Auto Complete'

**Northing:**
367,367.85

**Easting:**
252,000.04

**Tide (feet):**
6.20



## Hole: G20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:25:46 | 36.42 | 30.12 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:46 | 36.75 | 30.45 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:47 | 37.07 | 30.77 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:25:47 | 37.40 | 31.10 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:25:47 | 37.73 | 31.43 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:25:48 | 38.06 | 31.76 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:25:48 | 38.39 | 32.09 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:25:48 | 38.71 | 32.41 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:49 | 39.04 | 32.74 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:49 | 39.37 | 33.07 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:49 | 39.70 | 33.40 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:25:50 | 40.03 | 33.73 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:50 | 40.35 | 34.05 | 998 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:25:51 | 40.68 | 34.38 | 998 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:25:51 | 41.01 | 34.71 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 15:25:52 | 41.34 | 35.04 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:25:52 | 41.67 | 35.37 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:25:52 | 41.99 | 35.69 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:53 | 42.32 | 36.02 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 15:25:53 | 42.65 | 36.35 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 15:25:53 | 42.98 | 36.68 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 15:25:54 | 43.31 | 37.01 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:54 | 43.64 | 37.34 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:25:55 | 43.96 | 37.66 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:25:55 | 44.29 | 37.99 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:55 | 44.62 | 38.32 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:56 | 44.95 | 38.65 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:56 | 45.28 | 38.98 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:56 | 45.60 | 39.30 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:25:57 | 45.93 | 39.63 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:25:57 | 46.26 | 39.96 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:25:57 | 46.59 | 40.29 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:25:58 | 46.92 | 40.62 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:25:58 | 47.24 | 40.94 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:58 | 47.57 | 41.27 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:59 | 47.90 | 41.60 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:25:59 | 48.23 | 41.93 | 1,005 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:25:59 | 48.56 | 42.26 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:26:00 | 48.88 | 42.58 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:26:00 | 49.21 | 42.91 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:26:01 | 49.54 | 43.24 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:26:01 | 49.87 | 43.57 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:26:01 | 50.20 | 43.90 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:26:01 | 50.53 | 44.23 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:26:02 | 50.85 | 44.55 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:26:02 | 51.18 | 44.88 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 15:26:03 | 51.51 | 45.21 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 15:26:03 | 51.84 | 45.54 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 15:26:03 | 52.17 | 45.87 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 15:26:04 | 52.49 | 46.19 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:26:04 | 52.82 | 46.52 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:26:05 | 53.15 | 46.85 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:26:05 | 53.48 | 47.18 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:26:05 | 53.81 | 47.51 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:26:06 | 54.13 | 47.83 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:26:06 | 54.46 | 48.16 | 1,002 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 15:26:06 | 54.79 | 48.49 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:26:07 | 55.12 | 48.82 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:26:16 | 55.45 | 49.15 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 15:26:17 | 55.77 | 49.47 | 119 | 1.66 | 1.29 | 6.5 |
| 4/22/2015 15:26:18 | 56.10 | 49.80 | 232 | 1.66 | 1.29 | 12.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:26:18 | 56.43 | 50.13 | 306 | 1.66 | 1.29 | 16.8 |
| 4/22/2015 | 15:26:19 | 56.76 | 50.46 | 399 | 1.66 | 1.29 | 21.8 |
| 4/22/2015 | 15:26:19 | 57.09 | 50.79 | 500 | 1.66 | 1.29 | 27.3 |
| 4/22/2015 | 15:26:20 | 57.41 | 51.11 | 599 | 1.66 | 1.29 | 32.7 |
| 4/22/2015 | 15:26:20 | 57.74 | 51.44 | 680 | 1.66 | 1.29 | 37.2 |
| 4/22/2015 | 15:26:21 | 58.07 | 51.77 | 715 | 1.66 | 1.29 | 39.1 |
| 4/22/2015 | 15:26:22 | 58.40 | 52.10 | 608 | 1.66 | 1.29 | 33.2 |
| 4/22/2015 | 15:26:22 | 58.73 | 52.43 | 560 | 1.66 | 1.29 | 30.6 |
| 4/22/2015 | 15:26:23 | 59.06 | 52.76 | 544 | 1.66 | 1.29 | 29.8 |
| 4/22/2015 | 15:26:23 | 59.38 | 53.08 | 562 | 1.66 | 1.29 | 30.7 |
| 4/22/2015 | 15:26:24 | 59.71 | 53.41 | 602 | 1.66 | 1.29 | 32.9 |
| 4/22/2015 | 15:26:25 | 60.04 | 53.74 | 600 | 1.66 | 1.29 | 32.8 |
| 4/22/2015 | 15:26:26 | 60.37 | 54.07 | 541 | 1.66 | 1.29 | 29.6 |
| 4/22/2015 | 15:26:27 | 60.70 | 54.40 | 457 | 1.66 | 1.29 | 25.0 |
| 4/22/2015 | 15:26:28 | 61.02 | 54.72 | 392 | 1.66 | 1.29 | 21.5 |
| 4/22/2015 | 15:26:28 | 61.28 | 54.98 | 388 | 1.66 | 1.29 | 21.2 |

## G20 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:24:30

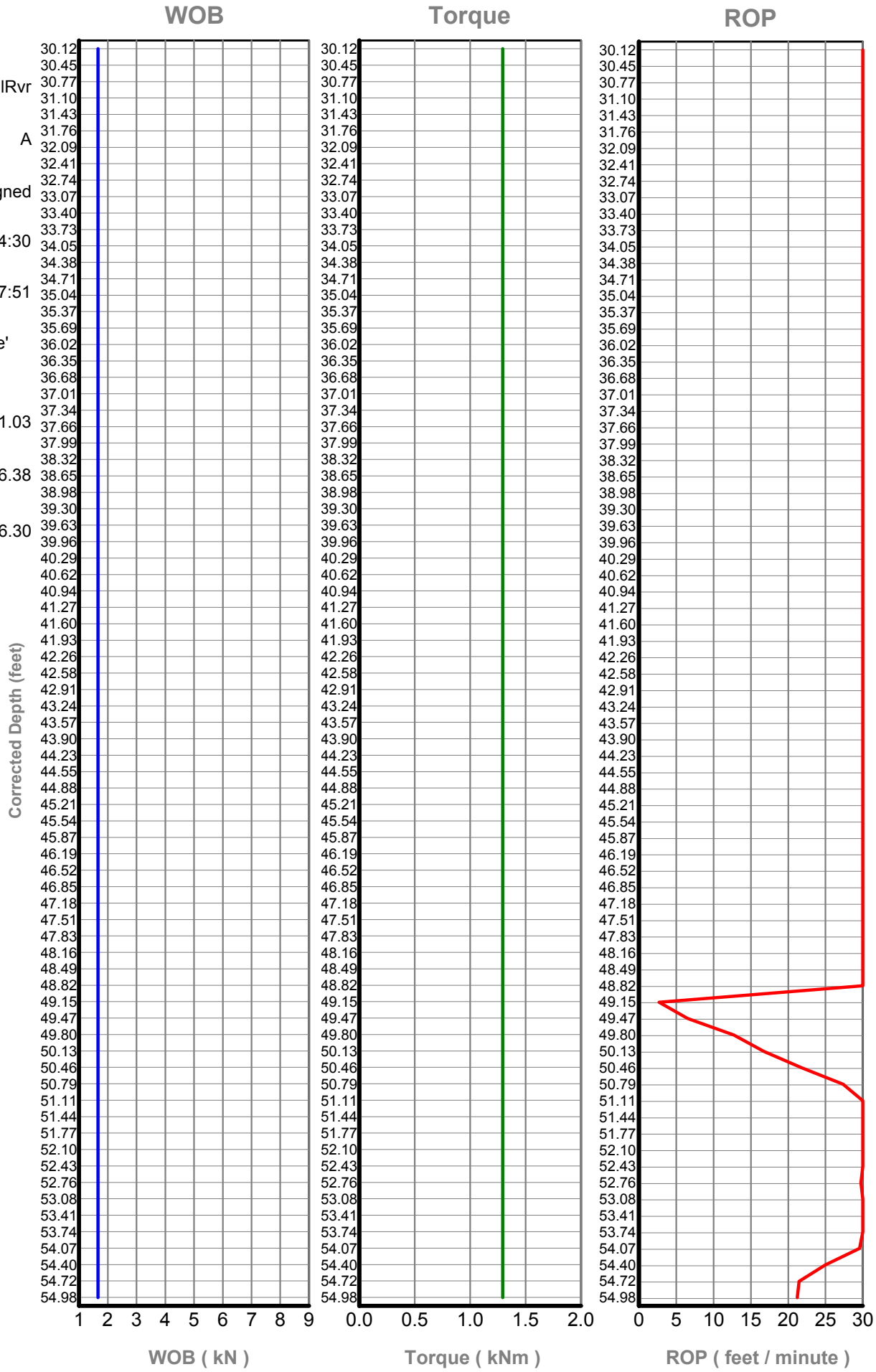
**End Date:**
4/22/2015 15:27:51

**Operator Note:**
'6.3 6.1 b Auto Complete'

**Northing:**
367,591.03

**Easting:**
252,406.38

**Tide (feet):**
6.30



## Hole: G21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:22:27 | 36.42 | 30.22 | 514 | 1.72 | 0.30 | 28.1 |
| 4/22/2015 15:22:27 | 36.75 | 30.55 | 510 | 1.73 | 0.29 | 27.9 |
| 4/22/2015 15:22:28 | 37.07 | 30.87 | 513 | 1.70 | 0.29 | 28.0 |
| 4/22/2015 15:22:29 | 37.40 | 31.20 | 518 | 1.70 | 0.30 | 28.3 |
| 4/22/2015 15:22:29 | 37.73 | 31.53 | 515 | 1.66 | 0.30 | 28.1 |
| 4/22/2015 15:22:30 | 38.06 | 31.86 | 512 | 1.68 | 0.30 | 28.0 |
| 4/22/2015 15:22:31 | 38.39 | 32.19 | 512 | 1.68 | 0.30 | 28.0 |
| 4/22/2015 15:22:31 | 38.71 | 32.51 | 515 | 1.70 | 0.30 | 28.1 |
| 4/22/2015 15:22:32 | 39.04 | 32.84 | 512 | 1.72 | 0.30 | 28.0 |
| 4/22/2015 15:22:33 | 39.37 | 33.17 | 509 | 1.73 | 0.30 | 27.8 |
| 4/22/2015 15:22:34 | 39.70 | 33.50 | 512 | 1.70 | 0.30 | 28.0 |
| 4/22/2015 15:22:35 | 40.03 | 33.83 | 512 | 1.71 | 0.30 | 28.0 |
| 4/22/2015 15:22:35 | 40.35 | 34.15 | 506 | 1.68 | 0.30 | 27.7 |
| 4/22/2015 15:22:36 | 40.68 | 34.48 | 512 | 1.70 | 0.30 | 28.0 |
| 4/22/2015 15:22:37 | 41.01 | 34.81 | 515 | 1.70 | 0.30 | 28.2 |
| 4/22/2015 15:22:37 | 41.34 | 35.14 | 509 | 1.72 | 0.29 | 27.8 |
| 4/22/2015 15:22:38 | 41.67 | 35.47 | 515 | 1.70 | 0.30 | 28.1 |
| 4/22/2015 15:22:39 | 41.99 | 35.79 | 509 | 1.69 | 0.30 | 27.8 |
| 4/22/2015 15:22:39 | 42.32 | 36.12 | 506 | 1.70 | 0.30 | 27.7 |
| 4/22/2015 15:22:40 | 42.65 | 36.45 | 509 | 1.71 | 0.30 | 27.8 |
| 4/22/2015 15:22:41 | 42.98 | 36.78 | 506 | 1.72 | 0.30 | 27.7 |
| 4/22/2015 15:22:41 | 43.31 | 37.11 | 509 | 1.68 | 0.30 | 27.8 |
| 4/22/2015 15:22:42 | 43.64 | 37.44 | 506 | 1.70 | 0.30 | 27.7 |
| 4/22/2015 15:22:43 | 43.96 | 37.76 | 497 | 1.70 | 0.30 | 27.2 |
| 4/22/2015 15:22:44 | 44.29 | 38.09 | 497 | 1.72 | 0.30 | 27.2 |
| 4/22/2015 15:22:44 | 44.62 | 38.42 | 494 | 1.68 | 0.30 | 27.0 |
| 4/22/2015 15:22:45 | 44.95 | 38.75 | 506 | 1.71 | 0.30 | 27.7 |
| 4/22/2015 15:22:46 | 45.28 | 39.08 | 506 | 1.72 | 0.30 | 27.7 |
| 4/22/2015 15:22:46 | 45.60 | 39.40 | 503 | 1.71 | 0.30 | 27.5 |
| 4/22/2015 15:22:47 | 45.93 | 39.73 | 506 | 1.73 | 0.30 | 27.7 |
| 4/22/2015 15:22:48 | 46.26 | 40.06 | 506 | 1.68 | 0.30 | 27.7 |
| 4/22/2015 15:22:49 | 46.59 | 40.39 | 513 | 1.72 | 0.30 | 28.1 |
| 4/22/2015 15:22:49 | 46.92 | 40.72 | 520 | 1.68 | 0.30 | 28.4 |
| 4/22/2015 15:22:50 | 47.24 | 41.04 | 514 | 1.72 | 0.30 | 28.1 |
| 4/22/2015 15:22:51 | 47.57 | 41.37 | 510 | 1.70 | 0.30 | 27.9 |
| 4/22/2015 15:22:51 | 47.90 | 41.70 | 504 | 1.70 | 0.30 | 27.5 |
| 4/22/2015 15:22:52 | 48.23 | 42.03 | 504 | 1.70 | 0.30 | 27.5 |
| 4/22/2015 15:22:53 | 48.56 | 42.36 | 504 | 1.68 | 0.30 | 27.5 |
| 4/22/2015 15:22:54 | 48.88 | 42.68 | 502 | 1.70 | 0.30 | 27.5 |
| 4/22/2015 15:22:54 | 49.21 | 43.01 | 511 | 1.70 | 0.30 | 27.9 |
| 4/22/2015 15:22:55 | 49.54 | 43.34 | 509 | 1.68 | 0.31 | 27.8 |
| 4/22/2015 15:22:56 | 49.87 | 43.67 | 502 | 1.72 | 0.30 | 27.5 |
| 4/22/2015 15:22:56 | 50.20 | 44.00 | 502 | 1.68 | 0.30 | 27.5 |
| 4/22/2015 15:22:57 | 50.53 | 44.33 | 496 | 1.72 | 0.30 | 27.1 |
| 4/22/2015 15:22:58 | 50.85 | 44.65 | 496 | 1.70 | 0.30 | 27.1 |
| 4/22/2015 15:22:58 | 51.18 | 44.98 | 496 | 1.70 | 0.30 | 27.1 |
| 4/22/2015 15:22:59 | 51.51 | 45.31 | 502 | 1.71 | 0.30 | 27.4 |
| 4/22/2015 15:23:00 | 51.84 | 45.64 | 500 | 1.70 | 0.30 | 27.4 |
| 4/22/2015 15:23:01 | 52.17 | 45.97 | 511 | 1.68 | 0.30 | 27.9 |
| 4/22/2015 15:23:01 | 52.49 | 46.29 | 515 | 1.72 | 0.30 | 28.2 |
| 4/22/2015 15:23:02 | 52.82 | 46.62 | 510 | 1.70 | 0.30 | 27.9 |
| 4/22/2015 15:23:03 | 53.15 | 46.95 | 514 | 1.68 | 0.30 | 28.1 |
| 4/22/2015 15:23:06 | 53.48 | 47.28 | 144 | 1.68 | 0.30 | 7.9 |
| 4/22/2015 15:23:47 | 53.81 | 47.61 | 109 | 1.70 | 1.13 | 6.0 |
| 4/22/2015 15:23:49 | 54.13 | 47.93 | 196 | 1.68 | 1.05 | 10.7 |
| 4/22/2015 15:23:50 | 54.46 | 48.26 | 261 | 1.70 | 0.91 | 14.3 |
| 4/22/2015 15:23:51 | 54.79 | 48.59 | 297 | 1.69 | 0.89 | 16.3 |
| 4/22/2015 15:23:52 | 55.12 | 48.92 | 321 | 1.70 | 1.08 | 17.5 |
| 4/22/2015 15:23:53 | 55.45 | 49.25 | 295 | 1.68 | 1.06 | 16.1 |
| 4/22/2015 15:23:55 | 55.77 | 49.57 | 240 | 1.68 | 1.10 | 13.1 |
| 4/22/2015 15:23:57 | 56.10 | 49.90 | 237 | 1.70 | 1.01 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:23:58 | 56.43 | 50.23 | 263 | 1.68 | 1.00 | 14.4 |
| 4/22/2015 | 15:23:59 | 56.76 | 50.56 | 293 | 1.68 | 1.06 | 16.0 |
| 4/22/2015 | 15:24:00 | 57.09 | 50.89 | 318 | 1.68 | 1.07 | 17.4 |
| 4/22/2015 | 15:24:01 | 57.41 | 51.21 | 318 | 1.69 | 0.96 | 17.4 |
| 4/22/2015 | 15:24:02 | 57.74 | 51.54 | 321 | 1.66 | 1.18 | 17.6 |
| 4/22/2015 | 15:24:03 | 58.07 | 51.87 | 340 | 1.70 | 1.19 | 18.6 |
| 4/22/2015 | 15:24:04 | 58.40 | 52.20 | 353 | 1.69 | 1.09 | 19.3 |
| 4/22/2015 | 15:24:05 | 58.73 | 52.53 | 364 | 1.70 | 1.14 | 19.9 |
| 4/22/2015 | 15:24:06 | 59.06 | 52.86 | 381 | 1.68 | 1.09 | 20.9 |
| 4/22/2015 | 15:24:07 | 59.38 | 53.18 | 387 | 1.69 | 1.01 | 21.2 |
| 4/22/2015 | 15:24:08 | 59.71 | 53.51 | 358 | 1.70 | 1.04 | 19.6 |
| 4/22/2015 | 15:24:09 | 60.04 | 53.84 | 331 | 1.70 | 1.07 | 18.1 |
| 4/22/2015 | 15:24:10 | 60.37 | 54.17 | 317 | 1.70 | 1.07 | 17.3 |
| 4/22/2015 | 15:24:12 | 60.70 | 54.50 | 309 | 1.69 | 1.06 | 16.9 |
| 4/22/2015 | 15:24:13 | 61.02 | 54.82 | 310 | 1.68 | 1.05 | 16.9 |
| 4/22/2015 | 15:24:14 | 61.34 | 55.14 | 309 | 1.65 | 1.08 | 16.9 |

## G21 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:20:19

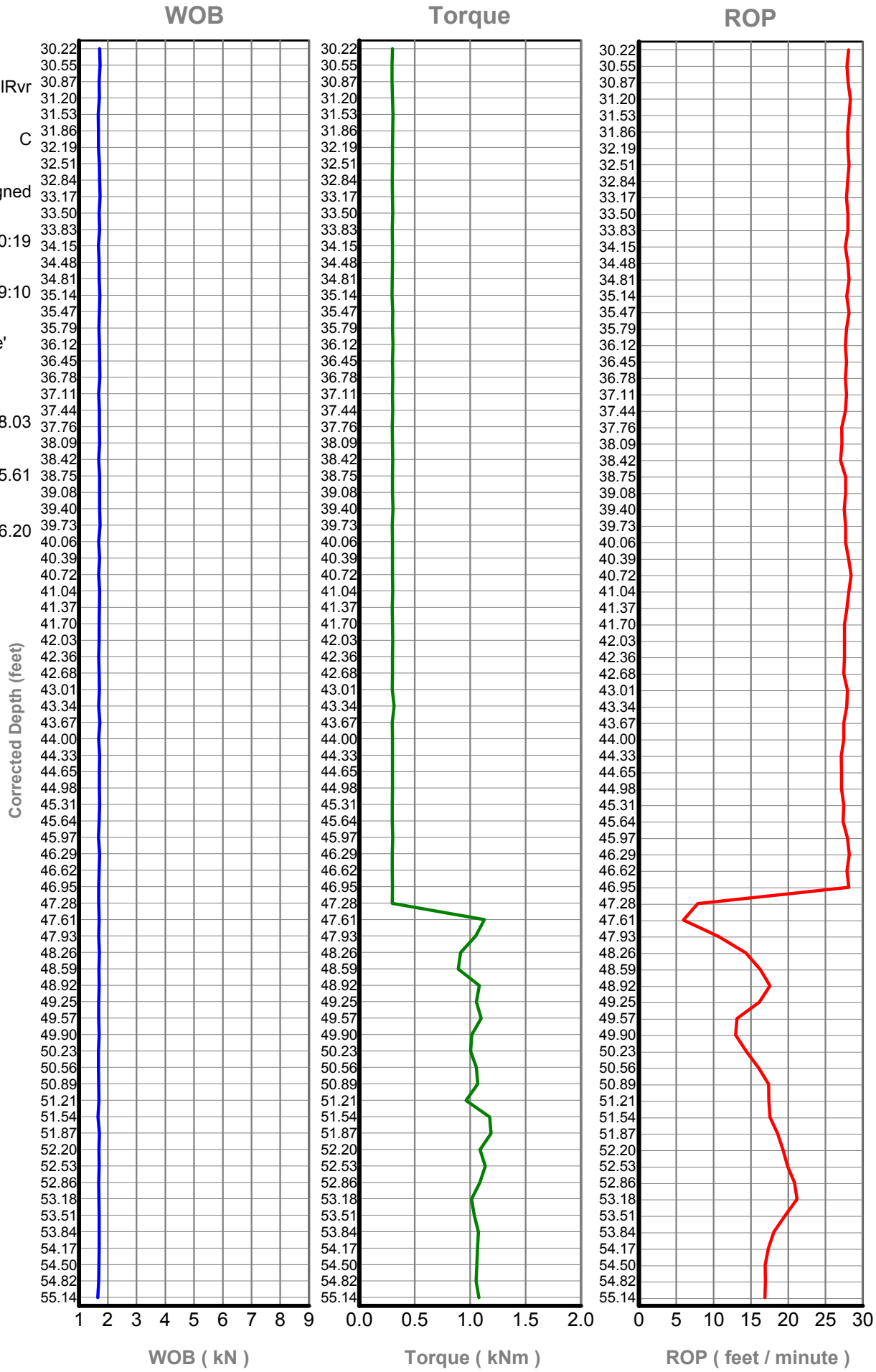
**End Date:**
4/22/2015 15:29:10

**Operator Note:**
'6.2 6.1C Auto Complete'

**Northing:**
367,638.03

**Easting:**
252,465.61

**Tide (feet):**
6.20



## Hole: G22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:41:35 | 36.09 | 30.19 | 867 | 0.26 | 0.36 | 47.4 |
| 4/23/2015 5:41:36 | 36.42 | 30.52 | 864 | 0.28 | 0.36 | 47.3 |
| 4/23/2015 5:41:36 | 36.75 | 30.85 | 859 | 0.26 | 0.36 | 46.9 |
| 4/23/2015 5:41:37 | 37.07 | 31.17 | 856 | 0.26 | 0.36 | 46.8 |
| 4/23/2015 5:41:37 | 37.40 | 31.50 | 856 | 0.26 | 0.36 | 46.8 |
| 4/23/2015 5:41:37 | 37.73 | 31.83 | 853 | 0.26 | 0.36 | 46.7 |
| 4/23/2015 5:41:38 | 38.06 | 32.16 | 847 | 0.26 | 0.36 | 46.3 |
| 4/23/2015 5:41:38 | 38.39 | 32.49 | 847 | 0.26 | 0.36 | 46.3 |
| 4/23/2015 5:41:39 | 38.71 | 32.81 | 862 | 0.26 | 0.36 | 47.1 |
| 4/23/2015 5:41:39 | 39.04 | 33.14 | 862 | 0.26 | 0.36 | 47.1 |
| 4/23/2015 5:41:39 | 39.37 | 33.47 | 862 | 0.26 | 0.36 | 47.2 |
| 4/23/2015 5:41:40 | 39.70 | 33.80 | 871 | 0.27 | 0.36 | 47.6 |
| 4/23/2015 5:41:40 | 40.03 | 34.13 | 876 | 0.26 | 0.36 | 47.9 |
| 4/23/2015 5:41:41 | 40.35 | 34.45 | 876 | 0.26 | 0.36 | 47.9 |
| 4/23/2015 5:41:41 | 40.68 | 34.78 | 888 | 0.26 | 0.36 | 48.6 |
| 4/23/2015 5:41:41 | 41.01 | 35.11 | 876 | 0.26 | 0.36 | 47.9 |
| 4/23/2015 5:41:42 | 41.34 | 35.44 | 882 | 0.26 | 0.36 | 48.2 |
| 4/23/2015 5:41:42 | 41.67 | 35.77 | 873 | 0.26 | 0.36 | 47.7 |
| 4/23/2015 5:41:43 | 41.99 | 36.09 | 873 | 0.26 | 0.36 | 47.7 |
| 4/23/2015 5:41:43 | 42.32 | 36.42 | 873 | 0.26 | 0.36 | 47.7 |
| 4/23/2015 5:41:43 | 42.65 | 36.75 | 873 | 0.26 | 0.36 | 47.7 |
| 4/23/2015 5:41:44 | 42.98 | 37.08 | 879 | 0.26 | 0.37 | 48.1 |
| 4/23/2015 5:41:44 | 43.31 | 37.41 | 852 | 0.28 | 0.36 | 46.6 |
| 4/23/2015 5:41:45 | 43.64 | 37.74 | 852 | 0.28 | 0.36 | 46.6 |
| 4/23/2015 5:41:45 | 43.96 | 38.06 | 852 | 0.26 | 0.36 | 46.6 |
| 4/23/2015 5:41:45 | 44.29 | 38.39 | 871 | 0.26 | 0.36 | 47.6 |
| 4/23/2015 5:41:46 | 44.62 | 38.72 | 879 | 0.26 | 0.36 | 48.1 |
| 4/23/2015 5:41:47 | 44.95 | 39.05 | 879 | 0.26 | 0.36 | 48.1 |
| 4/23/2015 5:41:47 | 45.28 | 39.38 | 882 | 0.26 | 0.36 | 48.3 |
| 4/23/2015 5:41:47 | 45.60 | 39.70 | 885 | 0.25 | 0.36 | 48.4 |
| 4/23/2015 5:41:48 | 45.93 | 40.03 | 903 | 0.26 | 0.37 | 49.4 |
| 4/23/2015 5:41:48 | 46.26 | 40.36 | 903 | 0.26 | 0.37 | 49.4 |
| 4/23/2015 5:41:48 | 46.59 | 40.69 | 893 | 0.25 | 0.36 | 48.8 |
| 4/23/2015 5:41:49 | 46.92 | 41.02 | 879 | 0.25 | 0.37 | 48.1 |
| 4/23/2015 5:41:49 | 47.24 | 41.34 | 876 | 0.25 | 0.36 | 47.9 |
| 4/23/2015 5:41:50 | 47.57 | 41.67 | 873 | 0.25 | 0.36 | 47.8 |
| 4/23/2015 5:41:50 | 47.90 | 42.00 | 873 | 0.25 | 0.36 | 47.8 |
| 4/23/2015 5:41:50 | 48.23 | 42.33 | 882 | 0.25 | 0.36 | 48.2 |
| 4/23/2015 5:41:51 | 48.56 | 42.66 | 887 | 0.25 | 0.36 | 48.5 |
| 4/23/2015 5:41:51 | 48.88 | 42.98 | 887 | 0.25 | 0.36 | 48.5 |
| 4/23/2015 5:41:52 | 49.21 | 43.31 | 887 | 0.25 | 0.36 | 48.5 |
| 4/23/2015 5:41:52 | 49.54 | 43.64 | 890 | 0.25 | 0.36 | 48.7 |
| 4/23/2015 5:41:52 | 49.87 | 43.97 | 899 | 0.25 | 0.36 | 49.1 |
| 4/23/2015 5:41:53 | 50.20 | 44.30 | 899 | 0.25 | 0.36 | 49.2 |
| 4/23/2015 5:41:53 | 50.53 | 44.63 | 899 | 0.25 | 0.36 | 49.2 |
| 4/23/2015 5:41:53 | 50.85 | 44.95 | 894 | 0.25 | 0.36 | 48.9 |
| 4/23/2015 5:41:54 | 51.18 | 45.28 | 894 | 0.25 | 0.36 | 48.9 |
| 4/23/2015 5:41:54 | 51.51 | 45.61 | 899 | 0.19 | 0.36 | 49.2 |
| 4/23/2015 5:42:08 | 51.84 | 45.94 | 0 | 0.18 | 0.33 | 0.0 |
| 4/23/2015 5:42:09 | 52.17 | 46.27 | 126 | 0.18 | 0.34 | 6.9 |
| 4/23/2015 5:42:09 | 52.49 | 46.59 | 287 | 0.19 | 0.34 | 15.7 |
| 4/23/2015 5:42:10 | 52.82 | 46.92 | 452 | 0.18 | 0.34 | 24.7 |
| 4/23/2015 5:42:10 | 53.15 | 47.25 | 452 | 0.18 | 0.34 | 24.7 |
| 4/23/2015 5:42:10 | 53.48 | 47.58 | 615 | 0.19 | 0.30 | 33.6 |
| 4/23/2015 5:42:11 | 53.81 | 47.91 | 615 | 0.18 | 0.33 | 33.6 |
| 4/23/2015 5:42:11 | 54.13 | 48.23 | 788 | 0.19 | 0.33 | 43.1 |
| 4/23/2015 5:42:12 | 54.46 | 48.56 | 830 | 0.18 | 0.34 | 45.4 |
| 4/23/2015 5:42:12 | 54.79 | 48.89 | 829 | 0.18 | 0.34 | 45.4 |
| 4/23/2015 5:42:13 | 55.12 | 49.22 | 829 | 0.18 | 0.34 | 45.4 |
| 4/23/2015 5:42:13 | 55.45 | 49.55 | 824 | 0.18 | 0.34 | 45.0 |
| 4/23/2015 5:42:13 | 55.77 | 49.87 | 823 | 0.18 | 0.34 | 45.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:42:14 | 56.10 | 50.20 | 801 | 0.18 | 0.34 | 43.8 |
| 4/23/2015 | 5:42:14 | 56.43 | 50.53 | 792 | 0.18 | 0.34 | 43.3 |
| 4/23/2015 | 5:42:15 | 56.76 | 50.86 | 783 | 0.18 | 0.34 | 42.8 |
| 4/23/2015 | 5:42:15 | 57.09 | 51.19 | 782 | 0.18 | 0.34 | 42.8 |
| 4/23/2015 | 5:42:16 | 57.41 | 51.51 | 775 | 0.18 | 0.34 | 42.4 |
| 4/23/2015 | 5:42:16 | 57.74 | 51.84 | 773 | 0.18 | 0.36 | 42.3 |
| 4/23/2015 | 5:42:17 | 58.07 | 52.17 | 728 | 0.16 | 0.38 | 39.8 |
| 4/23/2015 | 5:42:18 | 58.40 | 52.50 | 562 | 0.16 | 0.40 | 30.7 |
| 4/23/2015 | 5:43:53 | 58.73 | 52.83 | 11 | 2.81 | 0.35 | 0.6 |
| 4/23/2015 | 5:43:54 | 59.06 | 53.16 | 143 | 2.84 | 0.29 | 7.8 |
| 4/23/2015 | 5:43:54 | 59.38 | 53.48 | 266 | 2.72 | 0.35 | 14.6 |
| 4/23/2015 | 5:43:55 | 59.71 | 53.81 | 266 | 3.71 | 0.37 | 14.6 |
| 4/23/2015 | 5:43:56 | 60.04 | 54.14 | 485 | 4.17 | 0.37 | 26.5 |
| 4/23/2015 | 5:43:56 | 60.37 | 54.47 | 574 | 3.11 | 0.36 | 31.4 |
| 4/23/2015 | 5:43:57 | 60.70 | 54.80 | 510 | 3.69 | 0.38 | 27.9 |
| 4/23/2015 | 5:43:59 | 61.02 | 55.12 | 167 | 2.37 | 0.34 | 9.1 |
| 4/23/2015 | 5:44:00 | 61.13 | 55.23 | 170 | 2.36 | 0.34 | 9.3 |

## G22 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 5:36:33

**End Date:**
4/23/2015 5:46:18

**Operator Note:**
'5.9 6.1 b Auto Complete'

**Northing:**
367,217.39

**Easting:**
252,042.13

**Tide (feet):**
5.90



## Hole: G23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:51:41 | 35.76 | 30.06 | 942 | 0.20 | 0.32 | 51.5 |
| 4/23/2015 5:51:41 | 36.09 | 30.39 | 937 | 0.20 | 0.33 | 51.2 |
| 4/23/2015 5:51:42 | 36.42 | 30.72 | 937 | 0.20 | 0.33 | 51.2 |
| 4/23/2015 5:51:42 | 36.75 | 31.05 | 937 | 0.20 | 0.33 | 51.2 |
| 4/23/2015 5:51:42 | 37.07 | 31.37 | 926 | 0.20 | 0.33 | 50.6 |
| 4/23/2015 5:51:43 | 37.40 | 31.70 | 940 | 0.20 | 0.32 | 51.4 |
| 4/23/2015 5:51:43 | 37.73 | 32.03 | 940 | 0.20 | 0.32 | 51.4 |
| 4/23/2015 5:51:43 | 38.06 | 32.36 | 943 | 0.20 | 0.32 | 51.6 |
| 4/23/2015 5:51:44 | 38.39 | 32.69 | 949 | 0.20 | 0.32 | 51.9 |
| 4/23/2015 5:51:44 | 38.71 | 33.01 | 949 | 0.20 | 0.32 | 51.9 |
| 4/23/2015 5:51:44 | 39.04 | 33.34 | 955 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:45 | 39.37 | 33.67 | 966 | 0.20 | 0.32 | 52.8 |
| 4/23/2015 5:51:45 | 39.70 | 34.00 | 963 | 0.20 | 0.32 | 52.6 |
| 4/23/2015 5:51:46 | 40.03 | 34.33 | 963 | 0.20 | 0.32 | 52.6 |
| 4/23/2015 5:51:46 | 40.35 | 34.65 | 966 | 0.20 | 0.32 | 52.8 |
| 4/23/2015 5:51:46 | 40.68 | 34.98 | 960 | 0.20 | 0.32 | 52.5 |
| 4/23/2015 5:51:47 | 41.01 | 35.31 | 960 | 0.20 | 0.32 | 52.5 |
| 4/23/2015 5:51:47 | 41.34 | 35.64 | 957 | 0.20 | 0.32 | 52.3 |
| 4/23/2015 5:51:47 | 41.67 | 35.97 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:51:48 | 41.99 | 36.29 | 945 | 0.20 | 0.33 | 51.7 |
| 4/23/2015 5:51:48 | 42.32 | 36.62 | 945 | 0.20 | 0.33 | 51.7 |
| 4/23/2015 5:51:48 | 42.65 | 36.95 | 939 | 0.20 | 0.33 | 51.4 |
| 4/23/2015 5:51:49 | 42.98 | 37.28 | 945 | 0.20 | 0.32 | 51.7 |
| 4/23/2015 5:51:49 | 43.31 | 37.61 | 945 | 0.20 | 0.32 | 51.7 |
| 4/23/2015 5:51:50 | 43.64 | 37.94 | 945 | 0.20 | 0.32 | 51.7 |
| 4/23/2015 5:51:50 | 43.96 | 38.26 | 954 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:51 | 44.29 | 38.59 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:51:51 | 44.62 | 38.92 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:51:51 | 44.95 | 39.25 | 963 | 0.20 | 0.32 | 52.6 |
| 4/23/2015 5:51:52 | 45.28 | 39.58 | 960 | 0.20 | 0.32 | 52.5 |
| 4/23/2015 5:51:52 | 45.60 | 39.90 | 954 | 0.22 | 0.32 | 52.2 |
| 4/23/2015 5:51:53 | 45.93 | 40.23 | 954 | 0.22 | 0.32 | 52.2 |
| 4/23/2015 5:51:53 | 46.26 | 40.56 | 946 | 0.20 | 0.32 | 51.7 |
| 4/23/2015 5:51:53 | 46.59 | 40.89 | 954 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:54 | 46.92 | 41.22 | 954 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:54 | 47.24 | 41.54 | 951 | 0.20 | 0.33 | 52.0 |
| 4/23/2015 5:51:54 | 47.57 | 41.87 | 948 | 0.20 | 0.32 | 51.9 |
| 4/23/2015 5:51:55 | 47.90 | 42.20 | 954 | 0.20 | 0.33 | 52.2 |
| 4/23/2015 5:51:55 | 48.23 | 42.53 | 954 | 0.20 | 0.33 | 52.2 |
| 4/23/2015 5:51:55 | 48.56 | 42.86 | 954 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:56 | 48.88 | 43.18 | 957 | 0.20 | 0.30 | 52.3 |
| 4/23/2015 5:51:56 | 49.21 | 43.51 | 957 | 0.20 | 0.30 | 52.3 |
| 4/23/2015 5:51:56 | 49.54 | 43.84 | 957 | 0.20 | 0.33 | 52.3 |
| 4/23/2015 5:51:57 | 49.87 | 44.17 | 955 | 0.20 | 0.32 | 52.2 |
| 4/23/2015 5:51:57 | 50.20 | 44.50 | 963 | 0.22 | 0.33 | 52.7 |
| 4/23/2015 5:51:58 | 50.53 | 44.83 | 963 | 0.22 | 0.33 | 52.7 |
| 4/23/2015 5:51:58 | 50.85 | 45.15 | 966 | 0.20 | 0.32 | 52.8 |
| 4/23/2015 5:51:58 | 51.18 | 45.48 | 957 | 0.20 | 0.32 | 52.3 |
| 4/23/2015 5:51:59 | 51.51 | 45.81 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:51:59 | 51.84 | 46.14 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:51:59 | 52.17 | 46.47 | 951 | 0.20 | 0.32 | 52.0 |
| 4/23/2015 5:52:00 | 52.49 | 46.79 | 945 | 0.20 | 0.33 | 51.7 |
| 4/23/2015 5:52:01 | 52.82 | 47.12 | 945 | 0.20 | 0.33 | 51.7 |
| 4/23/2015 5:52:01 | 53.15 | 47.45 | 942 | 0.20 | 0.33 | 51.5 |
| 4/23/2015 5:52:01 | 53.48 | 47.78 | 934 | 0.20 | 0.32 | 51.1 |
| 4/23/2015 5:52:02 | 53.81 | 48.11 | 945 | 0.20 | 0.34 | 51.7 |
| 4/23/2015 5:52:02 | 54.13 | 48.43 | 945 | 0.20 | 0.34 | 51.7 |
| 4/23/2015 5:52:02 | 54.46 | 48.76 | 920 | 0.19 | 0.35 | 50.3 |
| 4/23/2015 5:52:03 | 54.79 | 49.09 | 778 | 0.18 | 0.38 | 42.6 |
| 4/23/2015 5:52:27 | 55.12 | 49.42 | 57 | 2.80 | 0.36 | 3.1 |
| 4/23/2015 5:52:27 | 55.45 | 49.75 | 166 | 2.66 | 0.36 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:52:28 | 55.77 | 50.07 | 280 | 2.87 | 0.36 | 15.3 |
| 4/23/2015 | 5:52:28 | 56.10 | 50.40 | 392 | 2.63 | 0.36 | 21.4 |
| 4/23/2015 | 5:52:29 | 56.43 | 50.73 | 566 | 2.61 | 0.35 | 31.0 |
| 4/23/2015 | 5:52:30 | 56.76 | 51.06 | 571 | 2.42 | 0.36 | 31.2 |
| 4/23/2015 | 5:52:30 | 57.09 | 51.39 | 571 | 2.67 | 0.36 | 31.2 |
| 4/23/2015 | 5:52:31 | 57.41 | 51.71 | 583 | 2.61 | 0.36 | 31.9 |
| 4/23/2015 | 5:52:32 | 57.74 | 52.04 | 585 | 2.82 | 0.36 | 32.0 |
| 4/23/2015 | 5:52:32 | 58.07 | 52.37 | 579 | 2.78 | 0.34 | 31.7 |
| 4/23/2015 | 5:52:33 | 58.40 | 52.70 | 569 | 2.73 | 0.36 | 31.1 |
| 4/23/2015 | 5:52:34 | 58.73 | 53.03 | 552 | 2.85 | 0.36 | 30.2 |
| 4/23/2015 | 5:52:34 | 59.06 | 53.36 | 546 | 2.56 | 0.36 | 29.9 |
| 4/23/2015 | 5:52:35 | 59.38 | 53.68 | 555 | 3.10 | 0.36 | 30.3 |
| 4/23/2015 | 5:52:36 | 59.71 | 54.01 | 564 | 2.53 | 0.36 | 30.8 |
| 4/23/2015 | 5:52:36 | 60.04 | 54.34 | 569 | 2.38 | 0.35 | 31.1 |
| 4/23/2015 | 5:52:37 | 60.37 | 54.67 | 578 | 3.99 | 0.37 | 31.6 |
| 4/23/2015 | 5:52:37 | 60.70 | 55.00 | 560 | 2.55 | 0.36 | 30.6 |
| 4/23/2015 | 5:52:38 | 61.02 | 55.32 | 560 | 2.27 | 0.35 | 30.6 |

## G23 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 5:47:52

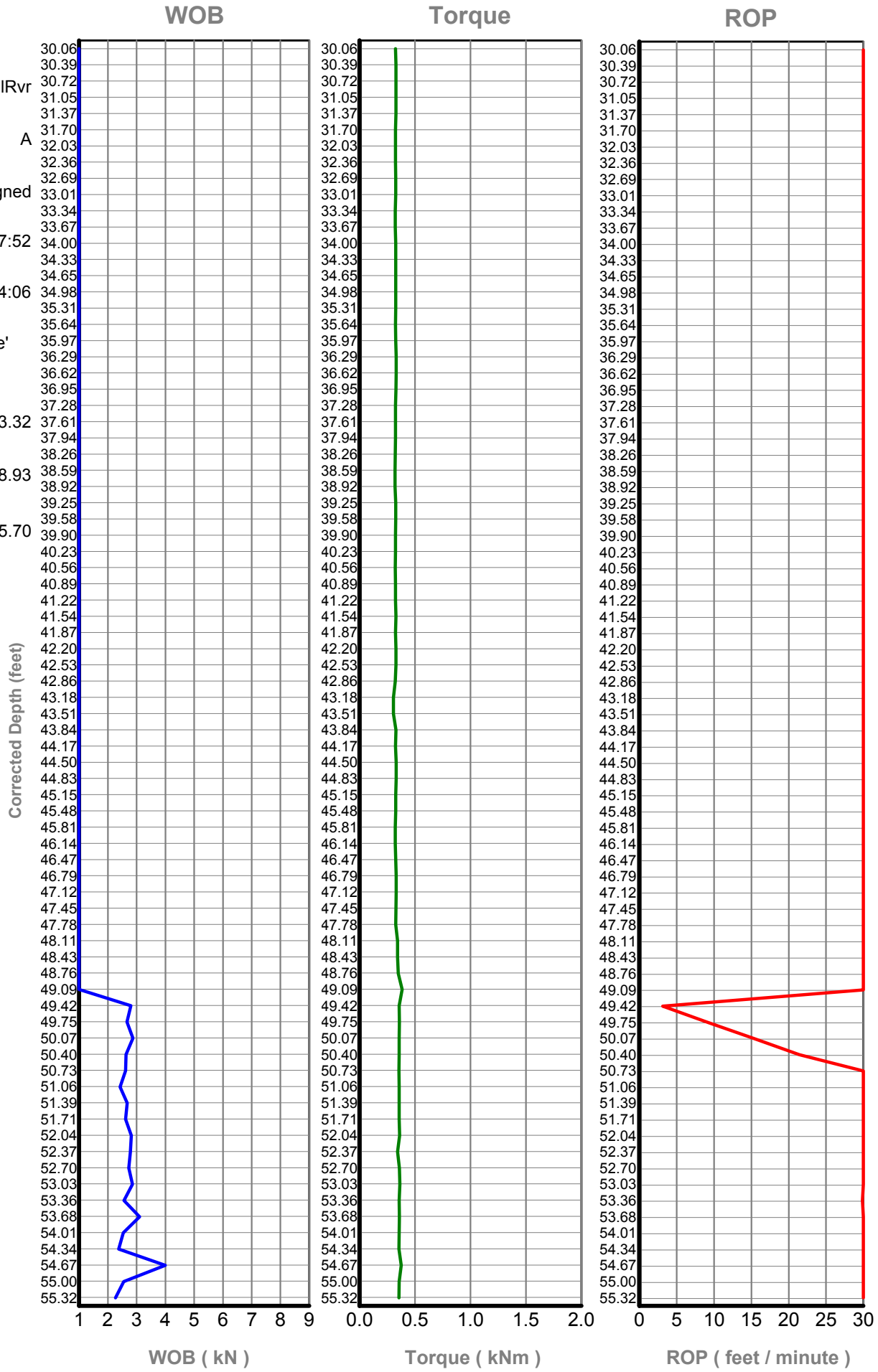
**End Date:**
4/23/2015 5:54:06

**Operator Note:**
'5.7 5.9 b Auto Complete'

**Northing:**
367,253.32

**Easting:**
252,088.93

**Tide (feet):**
5.70



## Hole: G24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 5:41:00 | 36.09 | 30.19 | 385 | 1.71 | 0.17 | 21.0 |
| 4/23/2015 5:41:01 | 36.42 | 30.52 | 384 | 1.71 | 0.17 | 21.0 |
| 4/23/2015 5:41:02 | 36.75 | 30.85 | 388 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:03 | 37.07 | 31.17 | 385 | 1.73 | 0.17 | 21.0 |
| 4/23/2015 5:41:04 | 37.40 | 31.50 | 391 | 1.72 | 0.17 | 21.4 |
| 4/23/2015 5:41:05 | 37.73 | 31.83 | 387 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:06 | 38.06 | 32.16 | 390 | 1.72 | 0.17 | 21.3 |
| 4/23/2015 5:41:07 | 38.39 | 32.49 | 384 | 1.72 | 0.17 | 21.0 |
| 4/23/2015 5:41:07 | 38.71 | 32.81 | 387 | 1.71 | 0.17 | 21.1 |
| 4/23/2015 5:41:08 | 39.04 | 33.14 | 390 | 1.70 | 0.19 | 21.3 |
| 4/23/2015 5:41:10 | 39.37 | 33.47 | 388 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:11 | 39.70 | 33.80 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 5:41:11 | 40.03 | 34.13 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:12 | 40.35 | 34.45 | 399 | 1.70 | 0.17 | 21.8 |
| 4/23/2015 5:41:13 | 40.68 | 34.78 | 393 | 1.71 | 0.17 | 21.5 |
| 4/23/2015 5:41:14 | 41.01 | 35.11 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:15 | 41.34 | 35.44 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 5:41:16 | 41.67 | 35.77 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:17 | 41.99 | 36.09 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:18 | 42.32 | 36.42 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:18 | 42.65 | 36.75 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:20 | 42.98 | 37.08 | 393 | 1.71 | 0.17 | 21.5 |
| 4/23/2015 5:41:21 | 43.31 | 37.41 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 5:41:22 | 43.64 | 37.74 | 390 | 1.71 | 0.17 | 21.3 |
| 4/23/2015 5:41:22 | 43.96 | 38.06 | 390 | 1.71 | 0.17 | 21.3 |
| 4/23/2015 5:41:23 | 44.29 | 38.39 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:24 | 44.62 | 38.72 | 388 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:25 | 44.95 | 39.05 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:26 | 45.28 | 39.38 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 5:41:27 | 45.60 | 39.70 | 393 | 1.70 | 0.25 | 21.5 |
| 4/23/2015 5:41:28 | 45.93 | 40.03 | 387 | 1.70 | 0.17 | 21.2 |
| 4/23/2015 5:41:29 | 46.26 | 40.36 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:29 | 46.59 | 40.69 | 387 | 1.70 | 0.18 | 21.2 |
| 4/23/2015 5:41:31 | 46.92 | 41.02 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 5:41:32 | 47.24 | 41.34 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 5:41:33 | 47.57 | 41.67 | 391 | 1.70 | 0.17 | 21.4 |
| 4/23/2015 5:41:33 | 47.90 | 42.00 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:34 | 48.23 | 42.33 | 390 | 1.69 | 0.17 | 21.3 |
| 4/23/2015 5:41:35 | 48.56 | 42.66 | 393 | 1.71 | 0.17 | 21.5 |
| 4/23/2015 5:41:36 | 48.88 | 42.98 | 393 | 1.71 | 0.17 | 21.5 |
| 4/23/2015 5:41:37 | 49.21 | 43.31 | 388 | 1.70 | 0.17 | 21.2 |
| 4/23/2015 5:41:38 | 49.54 | 43.64 | 388 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:39 | 49.87 | 43.97 | 384 | 1.70 | 0.17 | 21.0 |
| 4/23/2015 5:41:40 | 50.20 | 44.30 | 388 | 1.69 | 0.17 | 21.2 |
| 4/23/2015 5:41:41 | 50.53 | 44.63 | 388 | 1.71 | 0.17 | 21.2 |
| 4/23/2015 5:41:42 | 50.85 | 44.95 | 393 | 1.70 | 0.17 | 21.5 |
| 4/23/2015 5:41:43 | 51.18 | 45.28 | 390 | 1.71 | 0.18 | 21.3 |
| 4/23/2015 5:41:44 | 51.51 | 45.61 | 390 | 1.69 | 0.17 | 21.3 |
| 4/23/2015 5:41:45 | 51.84 | 45.94 | 390 | 1.71 | 0.17 | 21.3 |
| 4/23/2015 5:41:45 | 52.17 | 46.27 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 5:41:46 | 52.49 | 46.59 | 391 | 1.71 | 0.17 | 21.4 |
| 4/23/2015 5:41:47 | 52.82 | 46.92 | 388 | 1.70 | 0.18 | 21.2 |
| 4/23/2015 5:41:48 | 53.15 | 47.25 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 5:41:49 | 53.48 | 47.58 | 387 | 1.70 | 0.18 | 21.2 |
| 4/23/2015 5:41:50 | 53.81 | 47.91 | 390 | 1.69 | 0.18 | 21.3 |
| 4/23/2015 5:41:51 | 54.13 | 48.23 | 387 | 1.71 | 0.18 | 21.2 |
| 4/23/2015 5:41:52 | 54.46 | 48.56 | 381 | 1.71 | 0.18 | 20.8 |
| 4/23/2015 5:41:53 | 54.79 | 48.89 | 368 | 1.70 | 0.18 | 20.1 |
| 4/23/2015 5:41:54 | 55.12 | 49.22 | 353 | 1.70 | 0.18 | 19.3 |
| 4/23/2015 5:41:55 | 55.45 | 49.55 | 336 | 1.69 | 0.17 | 18.4 |
| 4/23/2015 5:41:56 | 55.77 | 49.87 | 324 | 1.70 | 0.18 | 17.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 5:41:58 | 56.10 | 50.20 | 275 | 1.70 | 0.17 | 15.0 |
| 4/23/2015 | 5:41:59 | 56.43 | 50.53 | 223 | 1.68 | 0.17 | 12.2 |
| 4/23/2015 | 5:42:01 | 56.76 | 50.86 | 221 | 1.68 | 0.17 | 12.1 |
| 4/23/2015 | 5:42:02 | 57.09 | 51.19 | 242 | 1.70 | 0.17 | 13.2 |
| 4/23/2015 | 5:42:04 | 57.41 | 51.51 | 261 | 1.70 | 0.17 | 14.2 |
| 4/23/2015 | 5:42:05 | 57.74 | 51.84 | 264 | 1.89 | 0.17 | 14.5 |
| 4/23/2015 | 5:42:06 | 58.07 | 52.17 | 263 | 1.70 | 0.17 | 14.4 |
| 4/23/2015 | 5:42:55 | 58.40 | 52.50 | 94 | 1.71 | 1.08 | 5.1 |
| 4/23/2015 | 5:42:56 | 58.73 | 52.83 | 176 | 1.72 | 1.08 | 9.6 |
| 4/23/2015 | 5:42:57 | 59.06 | 53.16 | 342 | 1.72 | 1.09 | 18.7 |
| 4/23/2015 | 5:42:58 | 59.38 | 53.48 | 419 | 1.72 | 1.08 | 22.9 |
| 4/23/2015 | 5:42:58 | 59.71 | 53.81 | 419 | 1.72 | 1.08 | 22.9 |
| 4/23/2015 | 5:42:59 | 60.04 | 54.14 | 419 | 1.72 | 1.08 | 22.9 |
| 4/23/2015 | 5:43:00 | 60.37 | 54.47 | 414 | 1.66 | 1.08 | 22.6 |
| 4/23/2015 | 5:43:01 | 60.70 | 54.80 | 414 | 1.71 | 1.08 | 22.6 |
| 4/23/2015 | 5:43:02 | 61.02 | 55.12 | 413 | 1.72 | 1.08 | 22.6 |
| 4/23/2015 | 5:43:02 | 61.24 | 55.34 | 413 | 1.54 | 1.10 | 22.6 |

## G24 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/23/2015 5:38:00

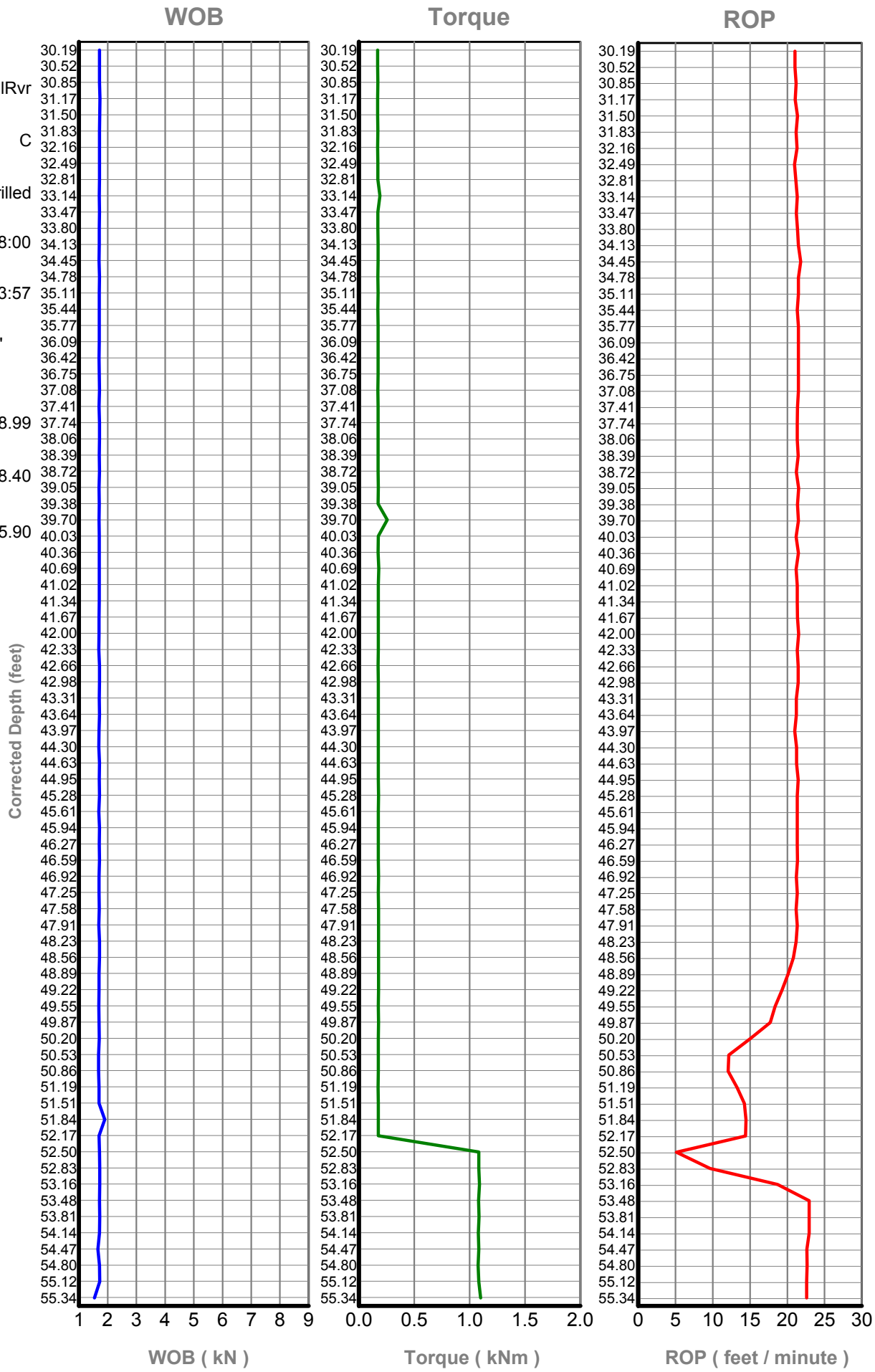
**End Date:**
4/23/2015 5:43:57

**Operator Note:**
'5.9 6.1c Auto Complete'

**Northing:**
367,298.99

**Easting:**
252,148.40

**Tide (feet):**
5.90



## Hole: G25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 20:22:19 | 33.46 | 30.26 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:20 | 33.79 | 30.59 | 846 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 20:22:21 | 34.12 | 30.92 | 834 | 1.66 | 1.29 | 45.6 |
| 4/22/2015 20:22:21 | 34.45 | 31.25 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 20:22:22 | 34.78 | 31.58 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:22 | 35.11 | 31.91 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:22 | 35.43 | 32.23 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:23 | 35.76 | 32.56 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 20:22:23 | 36.09 | 32.89 | 849 | 1.66 | 1.29 | 46.4 |
| 4/22/2015 20:22:24 | 36.42 | 33.22 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:24 | 36.75 | 33.55 | 838 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:24 | 37.07 | 33.87 | 835 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 20:22:25 | 37.40 | 34.20 | 832 | 1.66 | 1.29 | 45.5 |
| 4/22/2015 20:22:25 | 37.73 | 34.53 | 832 | 1.66 | 1.29 | 45.5 |
| 4/22/2015 20:22:26 | 38.06 | 34.86 | 832 | 1.66 | 1.29 | 45.5 |
| 4/22/2015 20:22:26 | 38.39 | 35.19 | 840 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 20:22:27 | 38.71 | 35.51 | 840 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 20:22:27 | 39.04 | 35.84 | 835 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 20:22:27 | 39.37 | 36.17 | 846 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 20:22:28 | 39.70 | 36.50 | 844 | 1.66 | 1.29 | 46.2 |
| 4/22/2015 20:22:28 | 40.03 | 36.83 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:29 | 40.35 | 37.15 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:29 | 40.68 | 37.48 | 858 | 1.66 | 1.29 | 46.9 |
| 4/22/2015 20:22:29 | 41.01 | 37.81 | 858 | 1.66 | 1.29 | 46.9 |
| 4/22/2015 20:22:30 | 41.34 | 38.14 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:30 | 41.67 | 38.47 | 849 | 1.66 | 1.29 | 46.4 |
| 4/22/2015 20:22:31 | 41.99 | 38.79 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 20:22:31 | 42.32 | 39.12 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 20:22:31 | 42.65 | 39.45 | 840 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 20:22:32 | 42.98 | 39.78 | 837 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 20:22:33 | 43.31 | 40.11 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 20:22:33 | 43.64 | 40.44 | 836 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 20:22:34 | 43.96 | 40.76 | 836 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 20:22:34 | 44.29 | 41.09 | 847 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 20:22:34 | 44.62 | 41.42 | 842 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 20:22:35 | 44.95 | 41.75 | 850 | 1.66 | 1.29 | 46.5 |
| 4/22/2015 20:22:35 | 45.28 | 42.08 | 853 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:36 | 45.60 | 42.40 | 853 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:36 | 45.93 | 42.73 | 860 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 20:22:36 | 46.26 | 43.06 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:37 | 46.59 | 43.39 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 20:22:37 | 46.92 | 43.72 | 849 | 1.66 | 1.29 | 46.4 |
| 4/22/2015 20:23:01 | 47.24 | 44.04 | 44 | 1.66 | 1.29 | 2.4 |
| 4/22/2015 20:23:04 | 47.57 | 44.37 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 20:23:11 | 47.90 | 44.70 | 41 | 1.66 | 1.29 | 2.3 |
| 4/22/2015 20:23:27 | 48.23 | 45.03 | 61 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 20:23:34 | 48.56 | 45.36 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 20:23:39 | 48.88 | 45.68 | 58 | 1.66 | 1.29 | 3.2 |
| 4/22/2015 20:23:47 | 49.21 | 46.01 | 42 | 1.66 | 1.29 | 2.3 |
| 4/22/2015 20:23:54 | 49.38 | 46.18 | 3 | 1.66 | 1.29 | 0.2 |

## G25 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 20:18:49

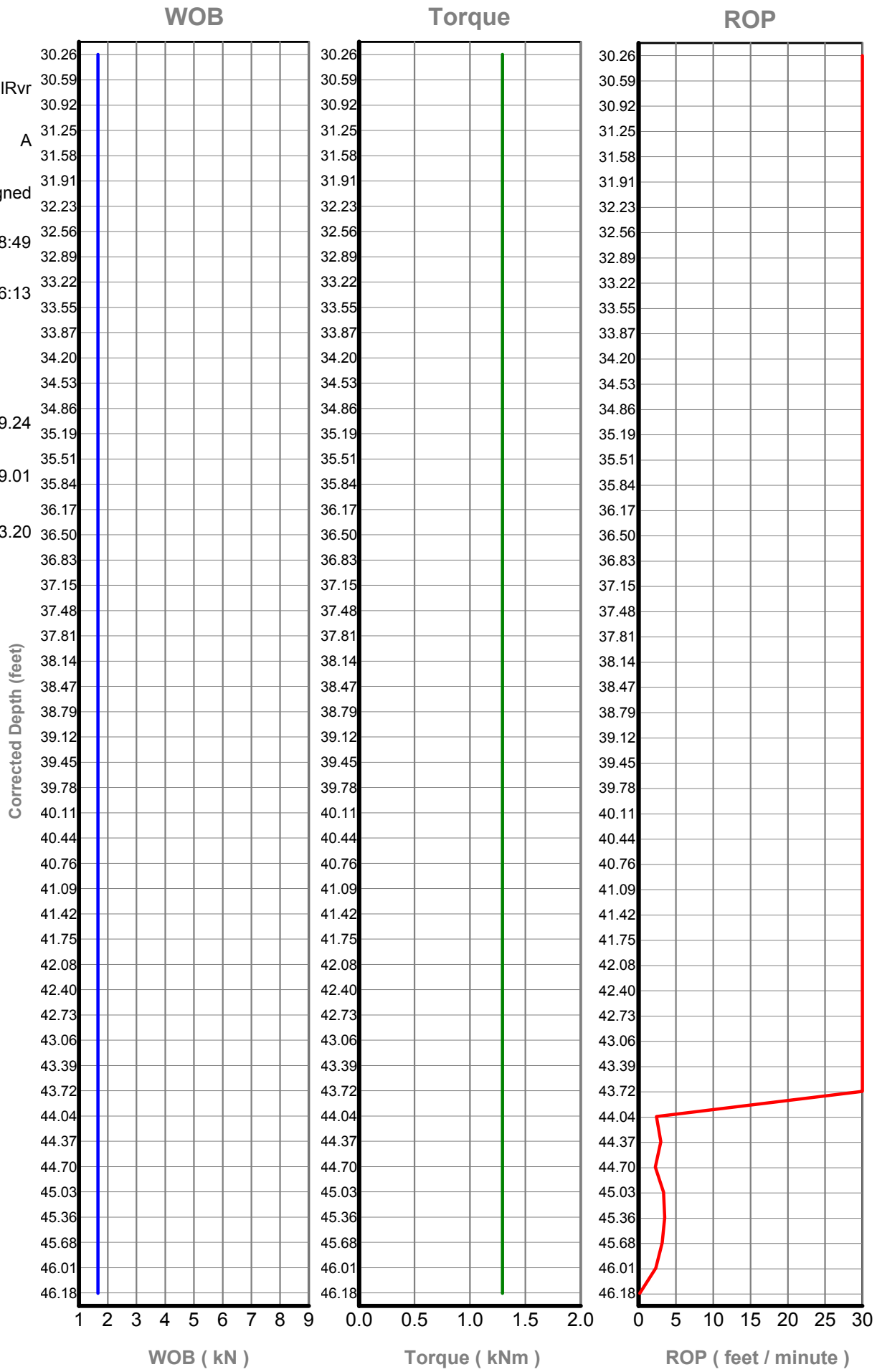
**End Date:**
4/22/2015 20:26:13

**Operator Note:**
'3.2 '2.5 3.4 b Auto Complete'

**Northing:**
367,359.24

**Easting:**
252,209.01

**Tide (feet):**
3.20



## Hole: G26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 20:33:06 | 33.46 | 30.26 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 20:33:06 | 33.79 | 30.59 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 20:33:07 | 34.12 | 30.92 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 20:33:07 | 34.45 | 31.25 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 20:33:07 | 34.78 | 31.58 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 20:33:08 | 35.11 | 31.91 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:08 | 35.43 | 32.23 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 20:33:09 | 35.76 | 32.56 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:09 | 36.09 | 32.89 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:09 | 36.42 | 33.22 | 903 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 20:33:10 | 36.75 | 33.55 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 20:33:10 | 37.07 | 33.87 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 20:33:11 | 37.40 | 34.20 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 20:33:11 | 37.73 | 34.53 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 20:33:12 | 38.06 | 34.86 | 908 | 1.66 | 1.29 | 49.7 |
| 4/22/2015 20:33:12 | 38.39 | 35.19 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:13 | 38.71 | 35.51 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:13 | 39.04 | 35.84 | 919 | 1.66 | 1.29 | 50.2 |
| 4/22/2015 20:33:13 | 39.37 | 36.17 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:14 | 39.70 | 36.50 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 20:33:14 | 40.03 | 36.83 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 20:33:14 | 40.35 | 37.15 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 20:33:15 | 40.68 | 37.48 | 930 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 20:33:15 | 41.01 | 37.81 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:16 | 41.34 | 38.14 | 916 | 1.66 | 1.29 | 50.1 |
| 4/22/2015 20:33:16 | 41.67 | 38.47 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 20:33:16 | 41.99 | 38.79 | 906 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 20:33:17 | 42.32 | 39.12 | 906 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 20:33:17 | 42.65 | 39.45 | 906 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 20:33:17 | 42.98 | 39.78 | 903 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 20:33:18 | 43.31 | 40.11 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 20:33:18 | 43.64 | 40.44 | 915 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 20:33:19 | 43.96 | 40.76 | 915 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 20:33:19 | 44.29 | 41.09 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 20:33:19 | 44.62 | 41.42 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 20:33:20 | 44.95 | 41.75 | 928 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 20:33:20 | 45.28 | 42.08 | 928 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 20:33:20 | 45.60 | 42.40 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 20:33:21 | 45.93 | 42.73 | 923 | 1.66 | 1.29 | 50.5 |
| 4/22/2015 20:33:21 | 46.26 | 43.06 | 928 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 20:33:37 | 46.59 | 43.39 | 26 | 1.66 | 1.29 | 1.4 |
| 4/22/2015 20:33:40 | 46.92 | 43.72 | 46 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 20:33:45 | 47.24 | 44.04 | 104 | 1.66 | 1.29 | 5.7 |
| 4/22/2015 20:33:46 | 47.57 | 44.37 | 234 | 1.66 | 1.29 | 12.8 |
| 4/22/2015 20:33:47 | 47.90 | 44.70 | 324 | 1.66 | 1.29 | 17.7 |
| 4/22/2015 20:33:49 | 48.23 | 45.03 | 276 | 1.66 | 1.29 | 15.1 |
| 4/22/2015 20:33:50 | 48.56 | 45.36 | 246 | 1.66 | 1.29 | 13.4 |
| 4/22/2015 20:33:54 | 48.88 | 45.68 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 20:33:59 | 49.21 | 46.01 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 20:34:03 | 49.54 | 46.34 | 68 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 20:34:08 | 49.87 | 46.67 | 81 | 1.66 | 1.29 | 4.4 |
| 4/22/2015 20:34:12 | 50.20 | 47.00 | 102 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 20:34:16 | 50.53 | 47.33 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 20:34:21 | 50.85 | 47.65 | 83 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 20:34:28 | 51.18 | 47.98 | 47 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 20:34:35 | 51.51 | 48.31 | 46 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 20:34:41 | 51.84 | 48.64 | 58 | 1.66 | 1.29 | 3.2 |
| 4/22/2015 20:34:45 | 52.05 | 48.85 | 58 | 1.66 | 1.29 | 3.2 |

## G26 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 20:27:23

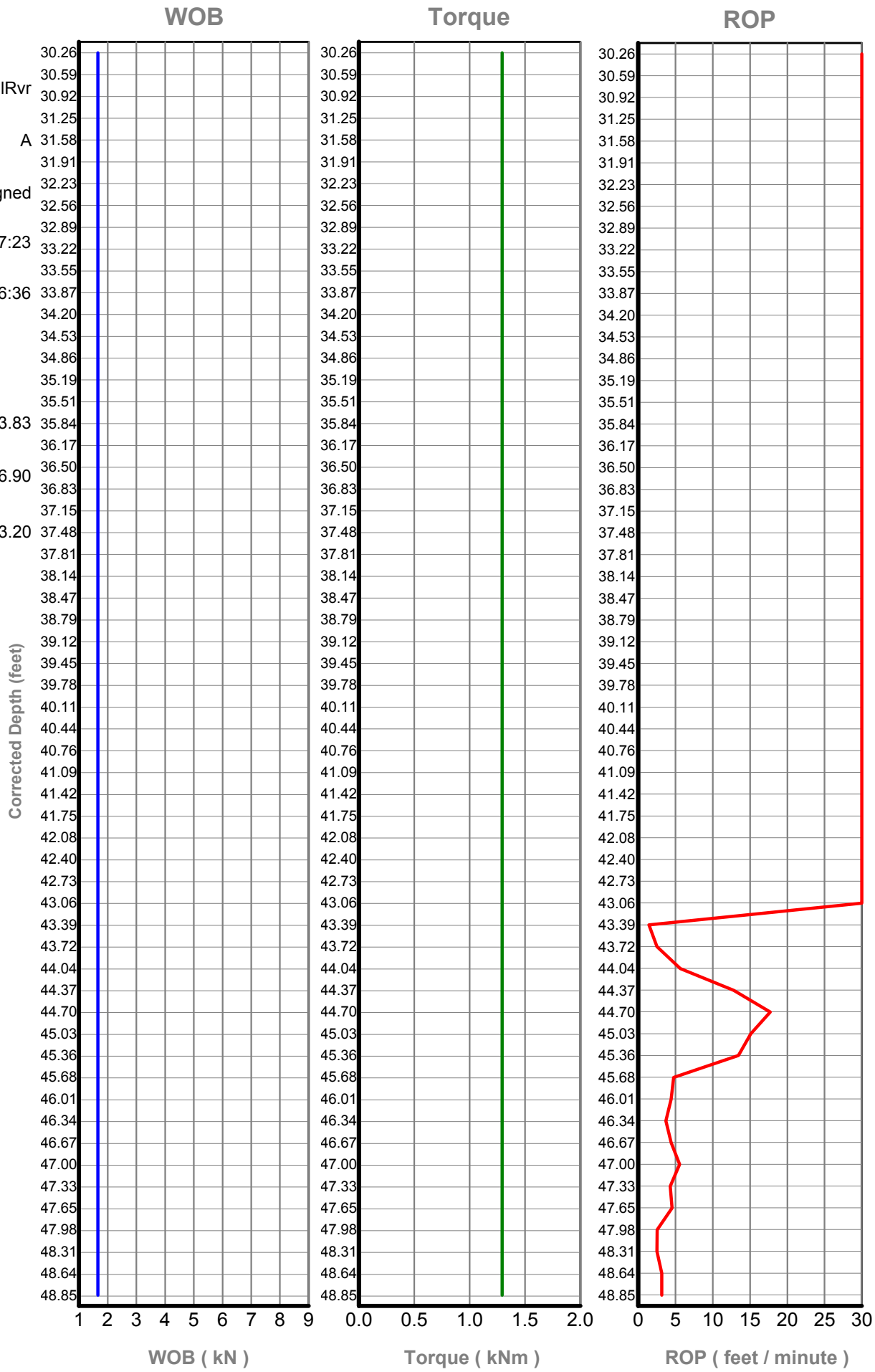
**End Date:**
4/22/2015 20:36:36

**Operator Note:**
'3.2 '2.6 3.2 b Auto Complete'

**Northing:**
367,393.83

**Easting:**
252,256.90

**Tide (feet):**
3.20



## Hole: G27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 20:25:52 | 33.46 | 30.26 | 392 | 1.71 | 0.17 | 21.5 |
| 4/22/2015 20:25:53 | 33.79 | 30.59 | 388 | 1.71 | 0.17 | 21.2 |
| 4/22/2015 20:25:54 | 34.12 | 30.92 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:25:55 | 34.45 | 31.25 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:25:56 | 34.78 | 31.58 | 390 | 1.71 | 0.17 | 21.3 |
| 4/22/2015 20:25:57 | 35.11 | 31.91 | 390 | 1.70 | 0.17 | 21.3 |
| 4/22/2015 20:25:58 | 35.43 | 32.23 | 390 | 1.69 | 0.17 | 21.3 |
| 4/22/2015 20:25:59 | 35.76 | 32.56 | 387 | 1.69 | 0.17 | 21.2 |
| 4/22/2015 20:25:59 | 36.09 | 32.89 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:00 | 36.42 | 33.22 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:01 | 36.75 | 33.55 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:03 | 37.07 | 33.87 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:03 | 37.40 | 34.20 | 387 | 1.78 | 0.17 | 21.2 |
| 4/22/2015 20:26:04 | 37.73 | 34.53 | 390 | 1.70 | 0.17 | 21.3 |
| 4/22/2015 20:26:05 | 38.06 | 34.86 | 392 | 1.70 | 0.17 | 21.5 |
| 4/22/2015 20:26:06 | 38.39 | 35.19 | 390 | 1.70 | 0.17 | 21.3 |
| 4/22/2015 20:26:07 | 38.71 | 35.51 | 384 | 1.70 | 0.17 | 21.0 |
| 4/22/2015 20:26:08 | 39.04 | 35.84 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:09 | 39.37 | 36.17 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:10 | 39.70 | 36.50 | 394 | 1.70 | 0.17 | 21.5 |
| 4/22/2015 20:26:10 | 40.03 | 36.83 | 393 | 1.70 | 0.17 | 21.5 |
| 4/22/2015 20:26:11 | 40.35 | 37.15 | 381 | 1.70 | 0.17 | 20.8 |
| 4/22/2015 20:26:13 | 40.68 | 37.48 | 389 | 1.70 | 0.17 | 21.3 |
| 4/22/2015 20:26:14 | 41.01 | 37.81 | 381 | 1.70 | 0.17 | 20.9 |
| 4/22/2015 20:26:14 | 41.34 | 38.14 | 381 | 1.72 | 0.17 | 20.9 |
| 4/22/2015 20:26:15 | 41.67 | 38.47 | 392 | 1.71 | 0.17 | 21.4 |
| 4/22/2015 20:26:16 | 41.99 | 38.79 | 384 | 1.70 | 0.17 | 21.0 |
| 4/22/2015 20:26:17 | 42.32 | 39.12 | 387 | 1.71 | 0.17 | 21.2 |
| 4/22/2015 20:26:18 | 42.65 | 39.45 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:19 | 42.98 | 39.78 | 390 | 1.72 | 0.17 | 21.4 |
| 4/22/2015 20:26:20 | 43.31 | 40.11 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:21 | 43.64 | 40.44 | 390 | 1.66 | 0.17 | 21.3 |
| 4/22/2015 20:26:22 | 43.96 | 40.76 | 388 | 1.70 | 0.16 | 21.2 |
| 4/22/2015 20:26:23 | 44.29 | 41.09 | 388 | 1.71 | 0.17 | 21.2 |
| 4/22/2015 20:26:24 | 44.62 | 41.42 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:25 | 44.95 | 41.75 | 385 | 1.70 | 0.17 | 21.1 |
| 4/22/2015 20:26:26 | 45.28 | 42.08 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:26 | 45.60 | 42.40 | 380 | 1.70 | 0.17 | 20.8 |
| 4/22/2015 20:26:27 | 45.93 | 42.73 | 390 | 1.70 | 0.17 | 21.3 |
| 4/22/2015 20:26:28 | 46.26 | 43.06 | 379 | 1.70 | 0.18 | 20.7 |
| 4/22/2015 20:26:29 | 46.59 | 43.39 | 388 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:30 | 46.92 | 43.72 | 381 | 1.70 | 0.17 | 20.8 |
| 4/22/2015 20:26:31 | 47.24 | 44.04 | 383 | 1.71 | 0.17 | 21.0 |
| 4/22/2015 20:26:32 | 47.57 | 44.37 | 387 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:33 | 47.90 | 44.70 | 383 | 1.70 | 0.17 | 20.9 |
| 4/22/2015 20:26:34 | 48.23 | 45.03 | 390 | 1.69 | 0.17 | 21.3 |
| 4/22/2015 20:26:35 | 48.56 | 45.36 | 388 | 1.70 | 0.17 | 21.2 |
| 4/22/2015 20:26:36 | 48.88 | 45.68 | 392 | 1.71 | 0.17 | 21.5 |
| 4/22/2015 20:27:12 | 49.21 | 46.01 | 9 | 1.72 | 1.23 | 0.5 |
| 4/22/2015 20:27:20 | 49.54 | 46.34 | 0 | 1.68 | 1.20 | 0.0 |
| 4/22/2015 20:27:22 | 49.87 | 46.67 | 127 | 1.73 | 1.14 | 6.9 |
| 4/22/2015 20:27:39 | 50.20 | 47.00 | 38 | 1.72 | 1.21 | 2.1 |
| 4/22/2015 20:27:49 | 50.53 | 47.33 | 37 | 1.74 | 1.19 | 2.0 |
| 4/22/2015 20:27:59 | 50.85 | 47.65 | 39 | 1.72 | 1.21 | 2.1 |
| 4/22/2015 20:28:00 | 50.90 | 47.70 | 38 | 1.69 | 1.13 | 2.1 |

## G27 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 20:23:26

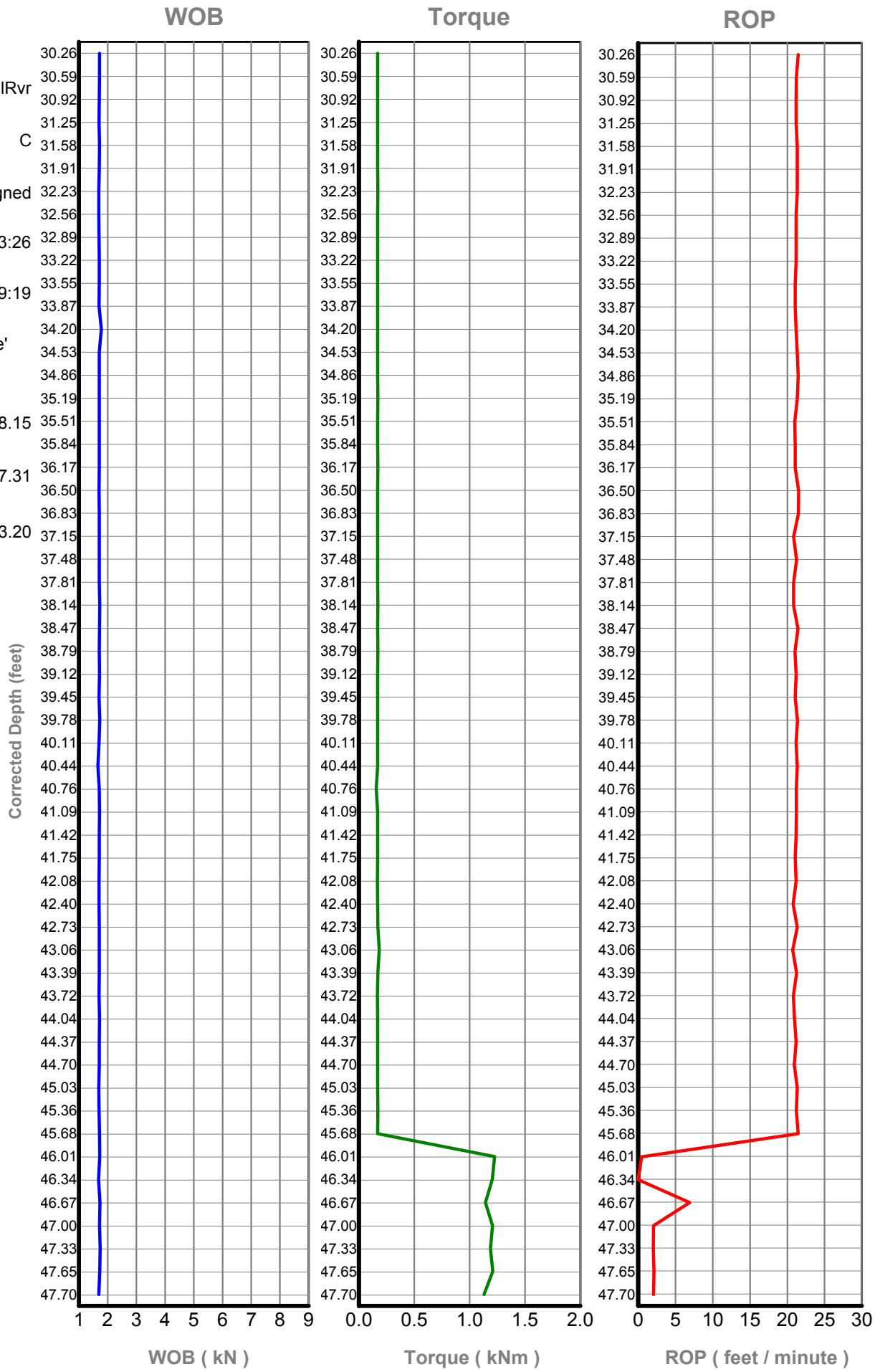
**End Date:**
4/22/2015 20:29:19

**Operator Note:**
'3.2 3.4 c Auto Complete'

**Northing:**
367,438.15

**Easting:**
252,317.31

**Tide (feet):**
3.20



## Hole: G28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:35:22 | 36.42 | 30.02 | 967 | 1.66 | 1.29 | 52.9 |
| 4/22/2015 15:35:23 | 36.75 | 30.35 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:35:23 | 37.07 | 30.67 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:35:24 | 37.40 | 31.00 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:35:24 | 37.73 | 31.33 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 15:35:24 | 38.06 | 31.66 | 958 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 15:35:25 | 38.39 | 31.99 | 958 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 15:35:25 | 38.71 | 32.31 | 958 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 15:35:25 | 39.04 | 32.64 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 15:35:26 | 39.37 | 32.97 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 15:35:26 | 39.70 | 33.30 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 15:35:26 | 40.03 | 33.63 | 964 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 15:35:27 | 40.35 | 33.95 | 959 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 15:35:27 | 40.68 | 34.28 | 959 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 15:35:27 | 41.01 | 34.61 | 972 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 15:35:28 | 41.34 | 34.94 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:35:28 | 41.67 | 35.27 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:35:29 | 41.99 | 35.59 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:35:29 | 42.32 | 35.92 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:35:29 | 42.65 | 36.25 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:35:30 | 42.98 | 36.58 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:35:30 | 43.31 | 36.91 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:35:30 | 43.64 | 37.24 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:35:31 | 43.96 | 37.56 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:35:31 | 44.29 | 37.89 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:35:31 | 44.62 | 38.22 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:32 | 44.95 | 38.55 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:32 | 45.28 | 38.88 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:35:32 | 45.60 | 39.20 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:35:33 | 45.93 | 39.53 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:35:33 | 46.26 | 39.86 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:35:33 | 46.59 | 40.19 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:34 | 46.92 | 40.52 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:34 | 47.24 | 40.84 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:35:35 | 47.57 | 41.17 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:35 | 47.90 | 41.50 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:35 | 48.23 | 41.83 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:36 | 48.56 | 42.16 | 1,036 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 15:35:36 | 48.88 | 42.48 | 1,036 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 15:35:36 | 49.21 | 42.81 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 15:35:37 | 49.54 | 43.14 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 15:35:37 | 49.87 | 43.47 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 15:35:37 | 50.20 | 43.80 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 15:35:38 | 50.53 | 44.13 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:35:38 | 50.85 | 44.45 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:35:38 | 51.18 | 44.78 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:39 | 51.51 | 45.11 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:39 | 51.84 | 45.44 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 15:35:39 | 52.17 | 45.77 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:35:40 | 52.49 | 46.09 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:35:40 | 52.82 | 46.42 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:35:40 | 53.15 | 46.75 | 1,027 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 15:35:41 | 53.48 | 47.08 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:41 | 53.81 | 47.41 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:35:41 | 54.13 | 47.73 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 15:35:42 | 54.46 | 48.06 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:35:42 | 54.79 | 48.39 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 15:35:42 | 55.12 | 48.72 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:35:43 | 55.45 | 49.05 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:35:43 | 55.77 | 49.37 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:35:43 | 56.10 | 49.70 | 1,012 | 1.66 | 1.29 | 55.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:35:50 | 56.43 | 50.03 | 99 | 1.66 | 1.29 | 5.4 |
| 4/22/2015 | 15:35:54 | 56.76 | 50.36 | 49 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 | 15:35:55 | 57.09 | 50.69 | 185 | 1.66 | 1.29 | 10.1 |
| 4/22/2015 | 15:35:56 | 57.41 | 51.01 | 291 | 1.66 | 1.29 | 15.9 |
| 4/22/2015 | 15:35:56 | 57.74 | 51.34 | 424 | 1.66 | 1.29 | 23.2 |
| 4/22/2015 | 15:35:57 | 58.07 | 51.67 | 558 | 1.66 | 1.29 | 30.5 |
| 4/22/2015 | 15:35:58 | 58.40 | 52.00 | 628 | 1.66 | 1.29 | 34.4 |
| 4/22/2015 | 15:35:59 | 58.73 | 52.33 | 611 | 1.66 | 1.29 | 33.4 |
| 4/22/2015 | 15:35:59 | 59.06 | 52.66 | 572 | 1.66 | 1.29 | 31.3 |
| 4/22/2015 | 15:36:00 | 59.38 | 52.98 | 535 | 1.66 | 1.29 | 29.3 |
| 4/22/2015 | 15:36:00 | 59.71 | 53.31 | 515 | 1.66 | 1.29 | 28.1 |
| 4/22/2015 | 15:36:01 | 60.04 | 53.64 | 552 | 1.66 | 1.29 | 30.2 |
| 4/22/2015 | 15:36:02 | 60.37 | 53.97 | 567 | 1.66 | 1.29 | 31.0 |
| 4/22/2015 | 15:36:02 | 60.70 | 54.30 | 593 | 1.66 | 1.29 | 32.4 |
| 4/22/2015 | 15:36:03 | 61.02 | 54.62 | 587 | 1.66 | 1.29 | 32.1 |
| 4/22/2015 | 15:36:04 | 61.35 | 54.95 | 535 | 1.66 | 1.29 | 29.2 |
| 4/22/2015 | 15:36:04 | 61.47 | 55.07 | 535 | 1.66 | 1.29 | 29.2 |

## G28 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:33:41

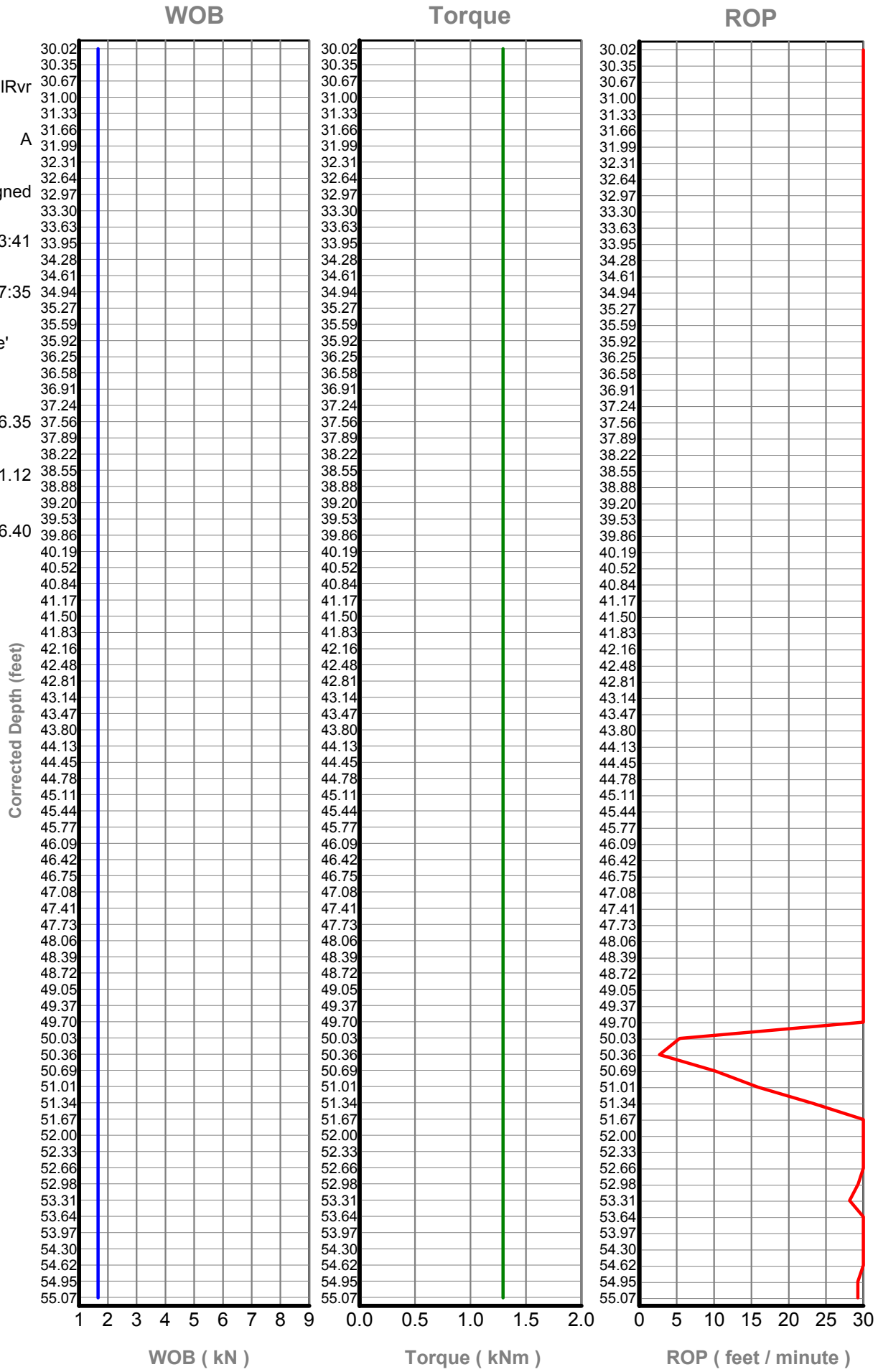
**End Date:**
4/22/2015 15:37:35

**Operator Note:**
'6.4 6.3 b Auto Complete'

**Northing:**
367,506.35

**Easting:**
252,401.12

**Tide (feet):**
6.40



## Hole: G29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:39:13 | 36.42 | 30.02 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:39:14 | 36.75 | 30.35 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:39:15 | 37.07 | 30.67 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:39:15 | 37.40 | 31.00 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:39:15 | 37.73 | 31.33 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 15:39:16 | 38.06 | 31.66 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:39:16 | 38.39 | 31.99 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:39:16 | 38.71 | 32.31 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:39:17 | 39.04 | 32.64 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:39:17 | 39.37 | 32.97 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:39:17 | 39.70 | 33.30 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:39:18 | 40.03 | 33.63 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:18 | 40.35 | 33.95 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:18 | 40.68 | 34.28 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:39:19 | 41.01 | 34.61 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:39:19 | 41.34 | 34.94 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:39:19 | 41.67 | 35.27 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:39:20 | 41.99 | 35.59 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:20 | 42.32 | 35.92 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:20 | 42.65 | 36.25 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:21 | 42.98 | 36.58 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:21 | 43.31 | 36.91 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:21 | 43.64 | 37.24 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 15:39:22 | 43.96 | 37.56 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:22 | 44.29 | 37.89 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:22 | 44.62 | 38.22 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:39:23 | 44.95 | 38.55 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:23 | 45.28 | 38.88 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:24 | 45.60 | 39.20 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:24 | 45.93 | 39.53 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:39:24 | 46.26 | 39.86 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:25 | 46.59 | 40.19 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:25 | 46.92 | 40.52 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:39:25 | 47.24 | 40.84 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:39:26 | 47.57 | 41.17 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:39:26 | 47.90 | 41.50 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:27 | 48.23 | 41.83 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:39:27 | 48.56 | 42.16 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 15:39:27 | 48.88 | 42.48 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:28 | 49.21 | 42.81 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:28 | 49.54 | 43.14 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:28 | 49.87 | 43.47 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:39:29 | 50.20 | 43.80 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:29 | 50.53 | 44.13 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 15:39:29 | 50.85 | 44.45 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:39:30 | 51.18 | 44.78 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:30 | 51.51 | 45.11 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 15:39:30 | 51.84 | 45.44 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:39:31 | 52.17 | 45.77 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:39:31 | 52.49 | 46.09 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 15:39:31 | 52.82 | 46.42 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:39:32 | 53.15 | 46.75 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:39:32 | 53.48 | 47.08 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:39:32 | 53.81 | 47.41 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:33 | 54.13 | 47.73 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:39:33 | 54.46 | 48.06 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:39:33 | 54.79 | 48.39 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:39:34 | 55.12 | 48.72 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:39:34 | 55.45 | 49.05 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:39:35 | 55.77 | 49.37 | 987 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 15:39:46 | 56.10 | 49.70 | 11 | 1.66 | 1.29 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:39:46 | 56.43 | 50.03 | 163 | 1.66 | 1.29 | 8.9 |
| 4/22/2015 | 15:39:47 | 56.76 | 50.36 | 163 | 1.66 | 1.29 | 8.9 |
| 4/22/2015 | 15:39:49 | 57.09 | 50.69 | 360 | 1.66 | 1.29 | 19.7 |
| 4/22/2015 | 15:39:50 | 57.41 | 51.01 | 360 | 1.66 | 1.29 | 19.7 |
| 4/22/2015 | 15:39:50 | 57.74 | 51.34 | 331 | 1.66 | 1.29 | 18.1 |
| 4/22/2015 | 15:39:51 | 58.07 | 51.67 | 331 | 1.66 | 1.29 | 18.1 |
| 4/22/2015 | 15:39:51 | 58.40 | 52.00 | 371 | 1.66 | 1.29 | 20.3 |
| 4/22/2015 | 15:39:52 | 58.73 | 52.33 | 443 | 1.66 | 1.29 | 24.2 |
| 4/22/2015 | 15:39:52 | 59.06 | 52.66 | 539 | 1.66 | 1.29 | 29.5 |
| 4/22/2015 | 15:39:53 | 59.38 | 52.98 | 623 | 1.66 | 1.29 | 34.0 |
| 4/22/2015 | 15:39:53 | 59.71 | 53.31 | 643 | 1.66 | 1.29 | 35.2 |
| 4/22/2015 | 15:39:54 | 60.04 | 53.64 | 651 | 1.66 | 1.29 | 35.6 |
| 4/22/2015 | 15:39:54 | 60.37 | 53.97 | 688 | 1.66 | 1.29 | 37.6 |
| 4/22/2015 | 15:39:55 | 60.70 | 54.30 | 714 | 1.66 | 1.29 | 39.0 |
| 4/22/2015 | 15:39:55 | 61.02 | 54.62 | 740 | 1.66 | 1.29 | 40.5 |
| 4/22/2015 | 15:39:57 | 61.35 | 54.95 | 430 | 1.66 | 1.29 | 23.5 |
| 4/22/2015 | 15:39:57 | 61.48 | 55.08 | 430 | 1.66 | 1.29 | 23.5 |

## G29 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:38:05

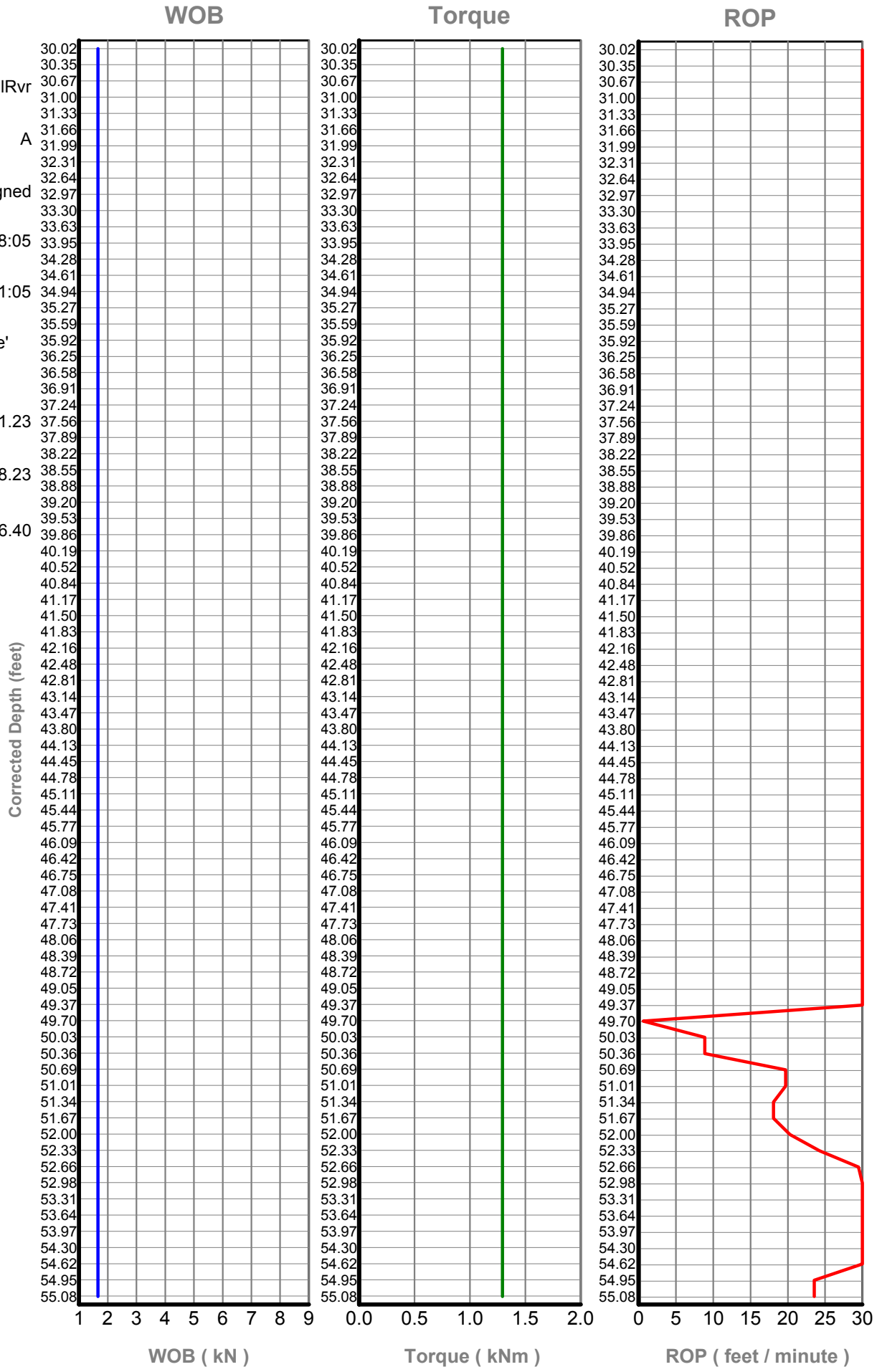
**End Date:**
4/22/2015 15:41:05

**Operator Note:**
'6.4 6.3 b Auto Complete'

**Northing:**
367,541.23

**Easting:**
252,448.23

**Tide (feet):**
6.40



## Hole: G3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 4:45:31 | 36.42 | 30.22 | 417 | 1.69 | 0.17 | 22.8 |
| 4/23/2015 4:45:31 | 36.75 | 30.55 | 414 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:45:32 | 37.07 | 30.87 | 411 | 1.72 | 0.17 | 22.5 |
| 4/23/2015 4:45:33 | 37.40 | 31.20 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:45:34 | 37.73 | 31.53 | 416 | 1.70 | 0.17 | 22.8 |
| 4/23/2015 4:45:35 | 38.06 | 31.86 | 416 | 1.71 | 0.17 | 22.8 |
| 4/23/2015 4:45:36 | 38.39 | 32.19 | 416 | 1.70 | 0.17 | 22.8 |
| 4/23/2015 4:45:36 | 38.71 | 32.51 | 411 | 1.70 | 0.21 | 22.5 |
| 4/23/2015 4:45:52 | 39.04 | 32.84 | 31 | 1.68 | 0.17 | 1.7 |
| 4/23/2015 4:45:53 | 39.37 | 33.17 | 196 | 1.70 | 0.17 | 10.7 |
| 4/23/2015 4:45:54 | 39.70 | 33.50 | 356 | 1.70 | 0.17 | 19.5 |
| 4/23/2015 4:45:54 | 40.03 | 33.83 | 405 | 1.68 | 0.17 | 22.1 |
| 4/23/2015 4:45:55 | 40.35 | 34.15 | 402 | 1.69 | 0.17 | 22.0 |
| 4/23/2015 4:45:56 | 40.68 | 34.48 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 4:45:57 | 41.01 | 34.81 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:45:58 | 41.34 | 35.14 | 408 | 1.69 | 0.17 | 22.3 |
| 4/23/2015 4:45:59 | 41.67 | 35.47 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:46:01 | 41.99 | 35.79 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 4:46:02 | 42.32 | 36.12 | 408 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 4:46:02 | 42.65 | 36.45 | 404 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 4:46:03 | 42.98 | 36.78 | 406 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:46:03 | 43.31 | 37.11 | 403 | 1.69 | 0.17 | 22.1 |
| 4/23/2015 4:46:04 | 43.64 | 37.44 | 405 | 1.70 | 0.25 | 22.1 |
| 4/23/2015 4:46:05 | 43.96 | 37.76 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 4:46:06 | 44.29 | 38.09 | 402 | 1.69 | 0.18 | 22.0 |
| 4/23/2015 4:46:07 | 44.62 | 38.42 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 4:46:08 | 44.95 | 38.75 | 400 | 1.70 | 0.17 | 21.9 |
| 4/23/2015 4:46:09 | 45.28 | 39.08 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:46:09 | 45.60 | 39.40 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:46:11 | 45.93 | 39.73 | 401 | 1.71 | 0.17 | 21.9 |
| 4/23/2015 4:46:12 | 46.26 | 40.06 | 402 | 1.71 | 0.17 | 22.0 |
| 4/23/2015 4:46:12 | 46.59 | 40.39 | 395 | 1.70 | 0.17 | 21.6 |
| 4/23/2015 4:46:13 | 46.92 | 40.72 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 4:46:19 | 47.24 | 41.04 | 0 | 1.72 | 0.16 | 0.0 |
| 4/23/2015 4:46:19 | 47.57 | 41.37 | 39 | 1.71 | 0.17 | 2.2 |
| 4/23/2015 4:46:20 | 47.90 | 41.70 | 198 | 1.70 | 0.17 | 10.8 |
| 4/23/2015 4:46:22 | 48.23 | 42.03 | 281 | 1.69 | 0.17 | 15.3 |
| 4/23/2015 4:46:22 | 48.56 | 42.36 | 281 | 1.70 | 0.17 | 15.3 |
| 4/23/2015 4:46:23 | 48.88 | 42.68 | 413 | 1.72 | 0.17 | 22.6 |
| 4/23/2015 4:46:24 | 49.21 | 43.01 | 420 | 1.71 | 0.17 | 23.0 |
| 4/23/2015 4:46:25 | 49.54 | 43.34 | 420 | 1.69 | 0.17 | 23.0 |
| 4/23/2015 4:46:26 | 49.87 | 43.67 | 417 | 1.69 | 0.17 | 22.8 |
| 4/23/2015 4:46:27 | 50.20 | 44.00 | 414 | 1.71 | 0.17 | 22.6 |
| 4/23/2015 4:46:27 | 50.53 | 44.33 | 417 | 1.70 | 0.17 | 22.8 |
| 4/23/2015 4:46:28 | 50.85 | 44.65 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:46:29 | 51.18 | 44.98 | 416 | 1.71 | 0.17 | 22.8 |
| 4/23/2015 4:46:30 | 51.51 | 45.31 | 416 | 1.69 | 0.17 | 22.8 |
| 4/23/2015 4:46:31 | 51.84 | 45.64 | 414 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:46:32 | 52.17 | 45.97 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:46:33 | 52.49 | 46.29 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 4:46:34 | 52.82 | 46.62 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:46:35 | 53.15 | 46.95 | 413 | 1.70 | 0.17 | 22.6 |
| 4/23/2015 4:46:35 | 53.48 | 47.28 | 411 | 1.70 | 0.17 | 22.5 |
| 4/23/2015 4:46:36 | 53.81 | 47.61 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 4:46:37 | 54.13 | 47.93 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 4:46:38 | 54.46 | 48.26 | 404 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 4:46:39 | 54.79 | 48.59 | 411 | 1.70 | 0.17 | 22.5 |
| 4/23/2015 4:46:40 | 55.12 | 48.92 | 409 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 4:46:40 | 55.45 | 49.25 | 409 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 4:46:41 | 55.77 | 49.57 | 405 | 1.74 | 0.17 | 22.2 |
| 4/23/2015 4:46:43 | 56.10 | 49.90 | 408 | 1.68 | 0.17 | 22.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 4:46:43 | 56.43 | 50.23 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 | 4:46:44 | 56.76 | 50.56 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 | 4:46:45 | 57.09 | 50.89 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 | 4:46:46 | 57.41 | 51.21 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 | 4:46:47 | 57.74 | 51.54 | 370 | 1.70 | 0.17 | 20.2 |
| 4/23/2015 | 4:47:33 | 58.07 | 51.87 | 91 | 1.71 | 1.19 | 5.0 |
| 4/23/2015 | 4:47:35 | 58.40 | 52.20 | 231 | 1.71 | 1.20 | 12.6 |
| 4/23/2015 | 4:47:37 | 58.73 | 52.53 | 214 | 1.70 | 1.29 | 11.7 |
| 4/23/2015 | 4:47:38 | 59.06 | 52.86 | 174 | 1.70 | 1.13 | 9.5 |
| 4/23/2015 | 4:47:39 | 59.38 | 53.18 | 203 | 1.71 | 1.14 | 11.1 |
| 4/23/2015 | 4:47:41 | 59.71 | 53.51 | 272 | 1.72 | 1.12 | 14.9 |
| 4/23/2015 | 4:47:42 | 60.04 | 53.84 | 287 | 1.72 | 1.12 | 15.7 |
| 4/23/2015 | 4:47:43 | 60.37 | 54.17 | 292 | 1.71 | 1.11 | 16.0 |
| 4/23/2015 | 4:47:45 | 60.70 | 54.50 | 290 | 1.70 | 1.11 | 15.9 |
| 4/23/2015 | 4:47:46 | 61.02 | 54.82 | 288 | 1.70 | 1.11 | 15.8 |
| 4/23/2015 | 4:47:47 | 61.35 | 55.15 | 291 | 1.69 | 1.10 | 15.9 |
| 4/23/2015 | 4:47:47 | 61.41 | 55.21 | 294 | 1.47 | 1.10 | 16.1 |

## G3 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 4:41:30

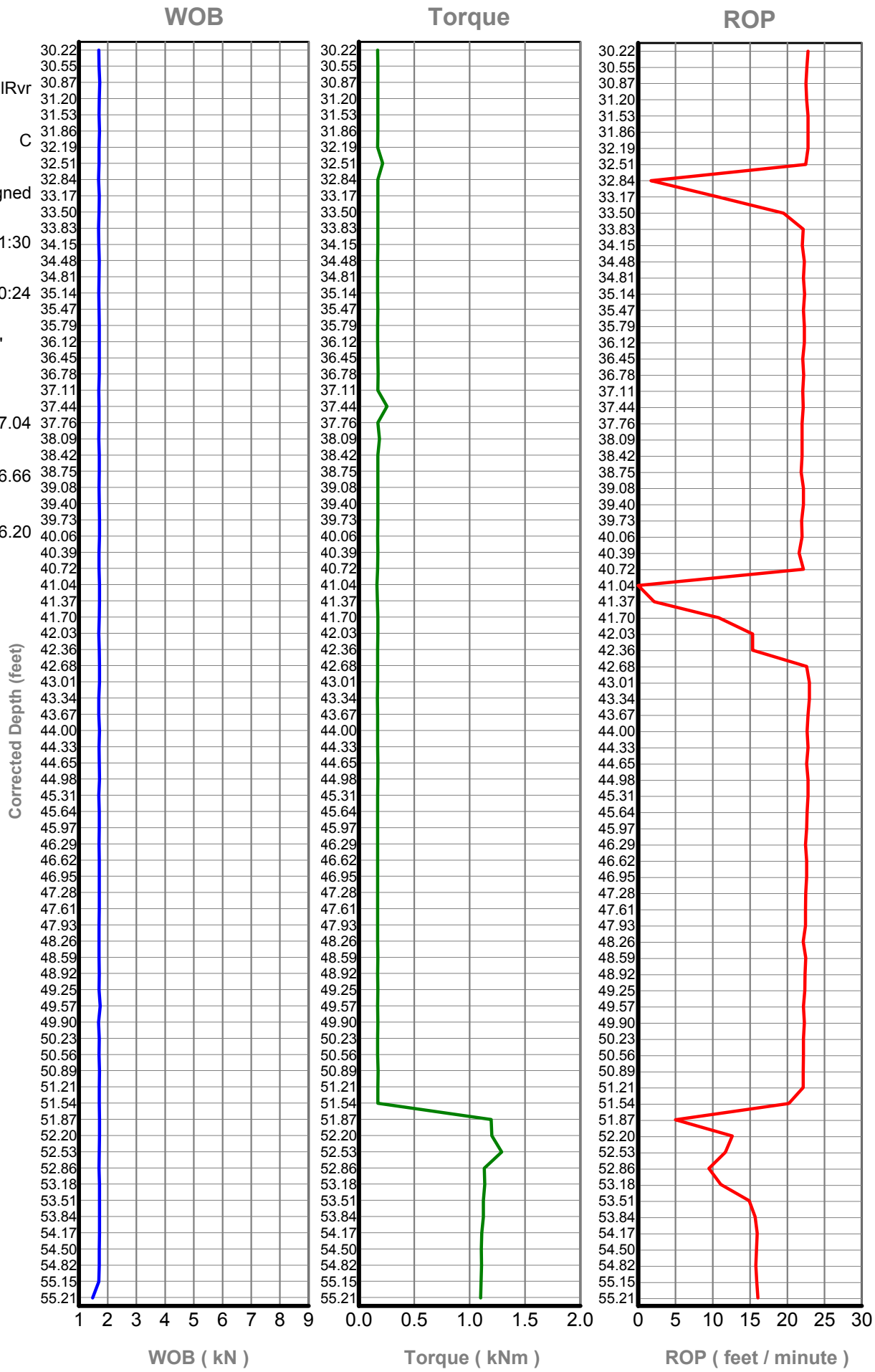
**End Date:**
4/23/2015 4:50:24

**Operator Note:**
'6.2 6.2c Auto Complete'

**Northing:**
367,417.04

**Easting:**
252,056.66

**Tide (feet):**
6.20



## Hole: G30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:37:40 | 36.42 | 30.02 | 509 | 1.70 | 0.29 | 27.8 |
| 4/22/2015 15:37:41 | 36.75 | 30.35 | 509 | 1.73 | 0.29 | 27.8 |
| 4/22/2015 15:37:41 | 37.07 | 30.67 | 509 | 1.69 | 0.29 | 27.8 |
| 4/22/2015 15:37:42 | 37.40 | 31.00 | 512 | 1.71 | 0.29 | 28.0 |
| 4/22/2015 15:37:43 | 37.73 | 31.33 | 509 | 1.73 | 0.29 | 27.8 |
| 4/22/2015 15:37:43 | 38.06 | 31.66 | 512 | 1.72 | 0.29 | 28.0 |
| 4/22/2015 15:37:44 | 38.39 | 31.99 | 512 | 1.68 | 0.29 | 28.0 |
| 4/22/2015 15:37:45 | 38.71 | 32.31 | 506 | 1.72 | 0.29 | 27.6 |
| 4/22/2015 15:37:45 | 39.04 | 32.64 | 512 | 1.74 | 0.29 | 28.0 |
| 4/22/2015 15:37:46 | 39.37 | 32.97 | 509 | 1.70 | 0.29 | 27.8 |
| 4/22/2015 15:37:47 | 39.70 | 33.30 | 506 | 1.68 | 0.29 | 27.7 |
| 4/22/2015 15:37:47 | 40.03 | 33.63 | 516 | 1.49 | 0.29 | 28.2 |
| 4/22/2015 15:37:49 | 40.35 | 33.95 | 512 | 1.68 | 0.29 | 28.0 |
| 4/22/2015 15:37:49 | 40.68 | 34.28 | 503 | 1.72 | 0.28 | 27.5 |
| 4/22/2015 15:37:50 | 41.01 | 34.61 | 516 | 1.70 | 0.29 | 28.2 |
| 4/22/2015 15:37:51 | 41.34 | 34.94 | 509 | 1.70 | 0.29 | 27.8 |
| 4/22/2015 15:37:51 | 41.67 | 35.27 | 504 | 1.69 | 0.29 | 27.5 |
| 4/22/2015 15:37:52 | 41.99 | 35.59 | 516 | 1.72 | 0.30 | 28.2 |
| 4/22/2015 15:37:53 | 42.32 | 35.92 | 498 | 1.74 | 0.29 | 27.2 |
| 4/22/2015 15:37:53 | 42.65 | 36.25 | 498 | 1.71 | 0.29 | 27.2 |
| 4/22/2015 15:37:54 | 42.98 | 36.58 | 502 | 1.71 | 0.29 | 27.5 |
| 4/22/2015 15:37:55 | 43.31 | 36.91 | 499 | 1.72 | 0.29 | 27.3 |
| 4/22/2015 15:37:55 | 43.64 | 37.24 | 499 | 1.73 | 0.29 | 27.3 |
| 4/22/2015 15:37:56 | 43.96 | 37.56 | 511 | 1.70 | 0.29 | 27.9 |
| 4/22/2015 15:37:57 | 44.29 | 37.89 | 503 | 1.68 | 0.29 | 27.5 |
| 4/22/2015 15:37:58 | 44.62 | 38.22 | 506 | 1.71 | 0.29 | 27.7 |
| 4/22/2015 15:37:59 | 44.95 | 38.55 | 498 | 1.71 | 0.30 | 27.2 |
| 4/22/2015 15:37:59 | 45.28 | 38.88 | 497 | 1.72 | 0.29 | 27.2 |
| 4/22/2015 15:38:00 | 45.60 | 39.20 | 500 | 1.70 | 0.29 | 27.3 |
| 4/22/2015 15:38:01 | 45.93 | 39.53 | 499 | 1.68 | 0.29 | 27.3 |
| 4/22/2015 15:38:01 | 46.26 | 39.86 | 511 | 1.71 | 0.29 | 27.9 |
| 4/22/2015 15:38:02 | 46.59 | 40.19 | 506 | 1.70 | 0.29 | 27.7 |
| 4/22/2015 15:38:03 | 46.92 | 40.52 | 503 | 1.72 | 0.29 | 27.5 |
| 4/22/2015 15:38:03 | 47.24 | 40.84 | 506 | 1.72 | 0.29 | 27.7 |
| 4/22/2015 15:38:04 | 47.57 | 41.17 | 503 | 1.70 | 0.29 | 27.5 |
| 4/22/2015 15:38:05 | 47.90 | 41.50 | 503 | 1.71 | 0.29 | 27.5 |
| 4/22/2015 15:38:05 | 48.23 | 41.83 | 497 | 1.72 | 0.29 | 27.2 |
| 4/22/2015 15:38:06 | 48.56 | 42.16 | 502 | 1.67 | 0.29 | 27.5 |
| 4/22/2015 15:38:07 | 48.88 | 42.48 | 505 | 1.69 | 0.29 | 27.6 |
| 4/22/2015 15:38:07 | 49.21 | 42.81 | 496 | 1.70 | 0.29 | 27.1 |
| 4/22/2015 15:38:08 | 49.54 | 43.14 | 505 | 1.70 | 0.29 | 27.6 |
| 4/22/2015 15:38:09 | 49.87 | 43.47 | 503 | 1.71 | 0.29 | 27.5 |
| 4/22/2015 15:38:10 | 50.20 | 43.80 | 500 | 1.70 | 0.29 | 27.3 |
| 4/22/2015 15:38:11 | 50.53 | 44.13 | 506 | 1.70 | 0.29 | 27.7 |
| 4/22/2015 15:38:11 | 50.85 | 44.45 | 503 | 1.71 | 0.29 | 27.5 |
| 4/22/2015 15:38:12 | 51.18 | 44.78 | 503 | 1.72 | 0.29 | 27.5 |
| 4/22/2015 15:38:13 | 51.51 | 45.11 | 506 | 1.71 | 0.29 | 27.7 |
| 4/22/2015 15:38:13 | 51.84 | 45.44 | 503 | 1.70 | 0.29 | 27.5 |
| 4/22/2015 15:38:14 | 52.17 | 45.77 | 500 | 1.72 | 0.29 | 27.3 |
| 4/22/2015 15:38:15 | 52.49 | 46.09 | 503 | 1.68 | 0.29 | 27.5 |
| 4/22/2015 15:38:15 | 52.82 | 46.42 | 500 | 1.68 | 0.27 | 27.3 |
| 4/22/2015 15:38:16 | 53.15 | 46.75 | 500 | 1.71 | 0.29 | 27.3 |
| 4/22/2015 15:38:17 | 53.48 | 47.08 | 503 | 1.68 | 0.29 | 27.5 |
| 4/22/2015 15:38:17 | 53.81 | 47.41 | 500 | 1.72 | 0.29 | 27.3 |
| 4/22/2015 15:38:19 | 54.13 | 47.73 | 497 | 1.69 | 0.29 | 27.2 |
| 4/22/2015 15:38:19 | 54.46 | 48.06 | 494 | 1.68 | 0.29 | 27.0 |
| 4/22/2015 15:38:20 | 54.79 | 48.39 | 496 | 1.70 | 0.29 | 27.1 |
| 4/22/2015 15:38:21 | 55.12 | 48.72 | 493 | 1.71 | 0.29 | 27.0 |
| 4/22/2015 15:38:21 | 55.45 | 49.05 | 490 | 1.72 | 0.29 | 26.8 |
| 4/22/2015 15:38:22 | 55.77 | 49.37 | 482 | 1.68 | 0.29 | 26.4 |
| 4/22/2015 15:38:24 | 56.10 | 49.70 | 254 | 1.64 | 1.21 | 13.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:38:27 | 56.43 | 50.03 | 121 | 1.68 | 1.13 | 6.6 |
| 4/22/2015 | 15:38:28 | 56.76 | 50.36 | 208 | 1.71 | 1.21 | 11.4 |
| 4/22/2015 | 15:38:31 | 57.09 | 50.69 | 194 | 1.71 | 1.15 | 10.6 |
| 4/22/2015 | 15:38:33 | 57.41 | 51.01 | 191 | 1.68 | 1.23 | 10.4 |
| 4/22/2015 | 15:38:34 | 57.74 | 51.34 | 214 | 1.70 | 1.13 | 11.7 |
| 4/22/2015 | 15:39:02 | 58.07 | 51.67 | 0 | 1.70 | 1.15 | 0.0 |
| 4/22/2015 | 15:39:04 | 58.40 | 52.00 | 106 | 1.70 | 1.12 | 5.8 |
| 4/22/2015 | 15:39:06 | 58.73 | 52.33 | 174 | 1.71 | 1.22 | 9.5 |
| 4/22/2015 | 15:39:08 | 59.06 | 52.66 | 175 | 1.70 | 1.12 | 9.5 |
| 4/22/2015 | 15:39:19 | 59.38 | 52.98 | 42 | 1.71 | 1.25 | 2.3 |
| 4/22/2015 | 15:39:21 | 59.71 | 53.31 | 128 | 1.68 | 1.00 | 7.0 |
| 4/22/2015 | 15:39:24 | 60.04 | 53.64 | 172 | 1.74 | 1.05 | 9.4 |
| 4/22/2015 | 15:39:26 | 60.37 | 53.97 | 167 | 1.70 | 1.03 | 9.1 |
| 4/22/2015 | 15:39:27 | 60.70 | 54.30 | 169 | 1.68 | 0.91 | 9.2 |
| 4/22/2015 | 15:39:28 | 61.02 | 54.62 | 235 | 1.68 | 0.84 | 12.9 |
| 4/22/2015 | 15:39:30 | 61.35 | 54.95 | 303 | 1.67 | 1.20 | 16.6 |
| 4/22/2015 | 15:39:30 | 61.40 | 55.00 | 303 | 1.67 | 1.20 | 16.6 |

## G30 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:35:49

**End Date:**
4/22/2015 15:42:34

**Operator Note:**
'6.4 6.3 C Auto Complete'

**Northing:**
367,587.03

**Easting:**
252,508.11

**Tide (feet):**
6.40



## Hole: G31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 6:10:52 | 35.43 | 30.03 | 928 | 0.91 | 0.32 | 50.7 |
| 4/23/2015 6:10:53 | 35.76 | 30.36 | 928 | 0.88 | 0.32 | 50.7 |
| 4/23/2015 6:10:53 | 36.09 | 30.69 | 928 | 0.88 | 0.32 | 50.7 |
| 4/23/2015 6:10:53 | 36.42 | 31.02 | 919 | 0.88 | 0.34 | 50.3 |
| 4/23/2015 6:10:54 | 36.75 | 31.35 | 925 | 0.91 | 0.34 | 50.6 |
| 4/23/2015 6:10:54 | 37.07 | 31.67 | 901 | 0.91 | 0.34 | 49.3 |
| 4/23/2015 6:10:55 | 37.40 | 32.00 | 901 | 0.91 | 0.34 | 49.3 |
| 4/23/2015 6:10:55 | 37.73 | 32.33 | 901 | 0.90 | 0.34 | 49.3 |
| 4/23/2015 6:10:56 | 38.06 | 32.66 | 902 | 0.88 | 0.34 | 49.3 |
| 4/23/2015 6:10:56 | 38.39 | 32.99 | 902 | 0.89 | 0.33 | 49.3 |
| 4/23/2015 6:10:57 | 38.71 | 33.31 | 902 | 0.89 | 0.33 | 49.3 |
| 4/23/2015 6:10:57 | 39.04 | 33.64 | 892 | 0.89 | 0.34 | 48.8 |
| 4/23/2015 6:10:57 | 39.37 | 33.97 | 892 | 0.89 | 0.33 | 48.8 |
| 4/23/2015 6:10:58 | 39.70 | 34.30 | 898 | 0.90 | 0.33 | 49.1 |
| 4/23/2015 6:10:58 | 40.03 | 34.63 | 898 | 0.90 | 0.33 | 49.1 |
| 4/23/2015 6:10:58 | 40.35 | 34.95 | 913 | 0.90 | 0.33 | 49.9 |
| 4/23/2015 6:10:59 | 40.68 | 35.28 | 912 | 0.90 | 0.34 | 49.9 |
| 4/23/2015 6:10:59 | 41.01 | 35.61 | 909 | 0.90 | 0.33 | 49.7 |
| 4/23/2015 6:11:00 | 41.34 | 35.94 | 909 | 0.90 | 0.33 | 49.7 |
| 4/23/2015 6:11:00 | 41.67 | 36.27 | 919 | 0.90 | 0.34 | 50.3 |
| 4/23/2015 6:11:00 | 41.99 | 36.59 | 913 | 0.90 | 0.34 | 49.9 |
| 4/23/2015 6:11:01 | 42.32 | 36.92 | 908 | 0.92 | 0.33 | 49.6 |
| 4/23/2015 6:11:01 | 42.65 | 37.25 | 908 | 0.92 | 0.33 | 49.6 |
| 4/23/2015 6:11:01 | 42.98 | 37.58 | 908 | 0.89 | 0.33 | 49.6 |
| 4/23/2015 6:11:02 | 43.31 | 37.91 | 902 | 0.90 | 0.33 | 49.3 |
| 4/23/2015 6:11:02 | 43.64 | 38.24 | 908 | 0.88 | 0.33 | 49.6 |
| 4/23/2015 6:11:03 | 43.96 | 38.56 | 908 | 0.88 | 0.33 | 49.6 |
| 4/23/2015 6:11:03 | 44.29 | 38.89 | 914 | 0.86 | 0.32 | 50.0 |
| 4/23/2015 6:11:03 | 44.62 | 39.22 | 922 | 0.86 | 0.32 | 50.4 |
| 4/23/2015 6:11:04 | 44.95 | 39.55 | 919 | 0.86 | 0.33 | 50.3 |
| 4/23/2015 6:11:04 | 45.28 | 39.88 | 919 | 0.86 | 0.33 | 50.3 |
| 4/23/2015 6:11:04 | 45.60 | 40.20 | 934 | 0.87 | 0.32 | 51.1 |
| 4/23/2015 6:11:05 | 45.93 | 40.53 | 934 | 0.87 | 0.32 | 51.1 |
| 4/23/2015 6:11:06 | 46.26 | 40.86 | 934 | 0.88 | 0.32 | 51.1 |
| 4/23/2015 6:11:06 | 46.59 | 41.19 | 934 | 0.88 | 0.32 | 51.1 |
| 4/23/2015 6:11:06 | 46.92 | 41.52 | 928 | 0.88 | 0.33 | 50.7 |
| 4/23/2015 6:11:07 | 47.24 | 41.84 | 921 | 0.87 | 0.32 | 50.3 |
| 4/23/2015 6:11:07 | 47.57 | 42.17 | 921 | 0.87 | 0.32 | 50.3 |
| 4/23/2015 6:11:08 | 47.90 | 42.50 | 921 | 0.87 | 0.32 | 50.3 |
| 4/23/2015 6:11:08 | 48.23 | 42.83 | 924 | 0.88 | 0.33 | 50.5 |
| 4/23/2015 6:11:08 | 48.56 | 43.16 | 915 | 0.88 | 0.32 | 50.1 |
| 4/23/2015 6:11:09 | 48.88 | 43.48 | 924 | 0.88 | 0.32 | 50.6 |
| 4/23/2015 6:11:09 | 49.21 | 43.81 | 924 | 0.88 | 0.32 | 50.6 |
| 4/23/2015 6:11:09 | 49.54 | 44.14 | 930 | 0.88 | 0.32 | 50.9 |
| 4/23/2015 6:11:10 | 49.87 | 44.47 | 943 | 0.88 | 0.32 | 51.6 |
| 4/23/2015 6:11:10 | 50.20 | 44.80 | 943 | 0.88 | 0.32 | 51.6 |
| 4/23/2015 6:11:10 | 50.53 | 45.13 | 932 | 0.88 | 0.32 | 50.9 |
| 4/23/2015 6:11:11 | 50.85 | 45.45 | 948 | 0.88 | 0.33 | 51.8 |
| 4/23/2015 6:11:11 | 51.18 | 45.78 | 934 | 0.19 | 0.33 | 51.1 |
| 4/23/2015 6:11:12 | 51.51 | 46.11 | 934 | 0.19 | 0.33 | 51.1 |
| 4/23/2015 6:11:12 | 51.84 | 46.44 | 931 | 0.19 | 0.33 | 50.9 |
| 4/23/2015 6:11:12 | 52.17 | 46.77 | 931 | 0.19 | 0.32 | 50.9 |
| 4/23/2015 6:11:13 | 52.49 | 47.09 | 926 | 0.19 | 0.32 | 50.6 |
| 4/23/2015 6:11:13 | 52.82 | 47.42 | 926 | 0.19 | 0.32 | 50.6 |
| 4/23/2015 6:11:13 | 53.15 | 47.75 | 929 | 0.19 | 0.33 | 50.8 |
| 4/23/2015 6:11:14 | 53.48 | 48.08 | 926 | 0.18 | 0.33 | 50.6 |
| 4/23/2015 6:11:14 | 53.81 | 48.41 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 6:11:15 | 54.13 | 48.73 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 6:11:15 | 54.46 | 49.06 | 923 | 0.19 | 0.33 | 50.5 |
| 4/23/2015 6:11:15 | 54.79 | 49.39 | 928 | 0.19 | 0.32 | 50.8 |
| 4/23/2015 6:11:16 | 55.12 | 49.72 | 908 | 0.18 | 0.36 | 49.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 6:11:17 | 55.45 | 50.05 | 848 | 0.17 | 0.39 | 46.3 |
| 4/23/2015 | 6:11:38 | 55.77 | 50.37 | 84 | 4.20 | 0.38 | 4.6 |
| 4/23/2015 | 6:11:42 | 56.10 | 50.70 | 110 | 4.25 | 0.38 | 6.0 |
| 4/23/2015 | 6:11:43 | 56.43 | 51.03 | 221 | 3.12 | 0.36 | 12.1 |
| 4/23/2015 | 6:11:44 | 56.76 | 51.36 | 321 | 3.06 | 0.36 | 17.5 |
| 4/23/2015 | 6:11:44 | 57.09 | 51.69 | 392 | 4.40 | 0.36 | 21.4 |
| 4/23/2015 | 6:11:45 | 57.41 | 52.01 | 491 | 3.16 | 0.35 | 26.8 |
| 4/23/2015 | 6:11:46 | 57.74 | 52.34 | 537 | 2.63 | 0.35 | 29.4 |
| 4/23/2015 | 6:11:46 | 58.07 | 52.67 | 576 | 2.91 | 0.35 | 31.5 |
| 4/23/2015 | 6:11:47 | 58.40 | 53.00 | 573 | 2.31 | 0.34 | 31.3 |
| 4/23/2015 | 6:11:48 | 58.73 | 53.33 | 580 | 2.24 | 0.34 | 31.7 |
| 4/23/2015 | 6:11:48 | 59.06 | 53.66 | 646 | 2.27 | 0.34 | 35.3 |
| 4/23/2015 | 6:11:49 | 59.38 | 53.98 | 678 | 2.21 | 0.34 | 37.1 |
| 4/23/2015 | 6:11:49 | 59.71 | 54.31 | 684 | 2.21 | 0.34 | 37.4 |
| 4/23/2015 | 6:11:50 | 60.04 | 54.64 | 706 | 2.23 | 0.35 | 38.6 |
| 4/23/2015 | 6:11:50 | 60.37 | 54.97 | 724 | 2.25 | 0.34 | 39.6 |
| 4/23/2015 | 6:11:50 | 60.62 | 55.22 | 724 | 2.25 | 0.34 | 39.6 |

## G31 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 6:09:33

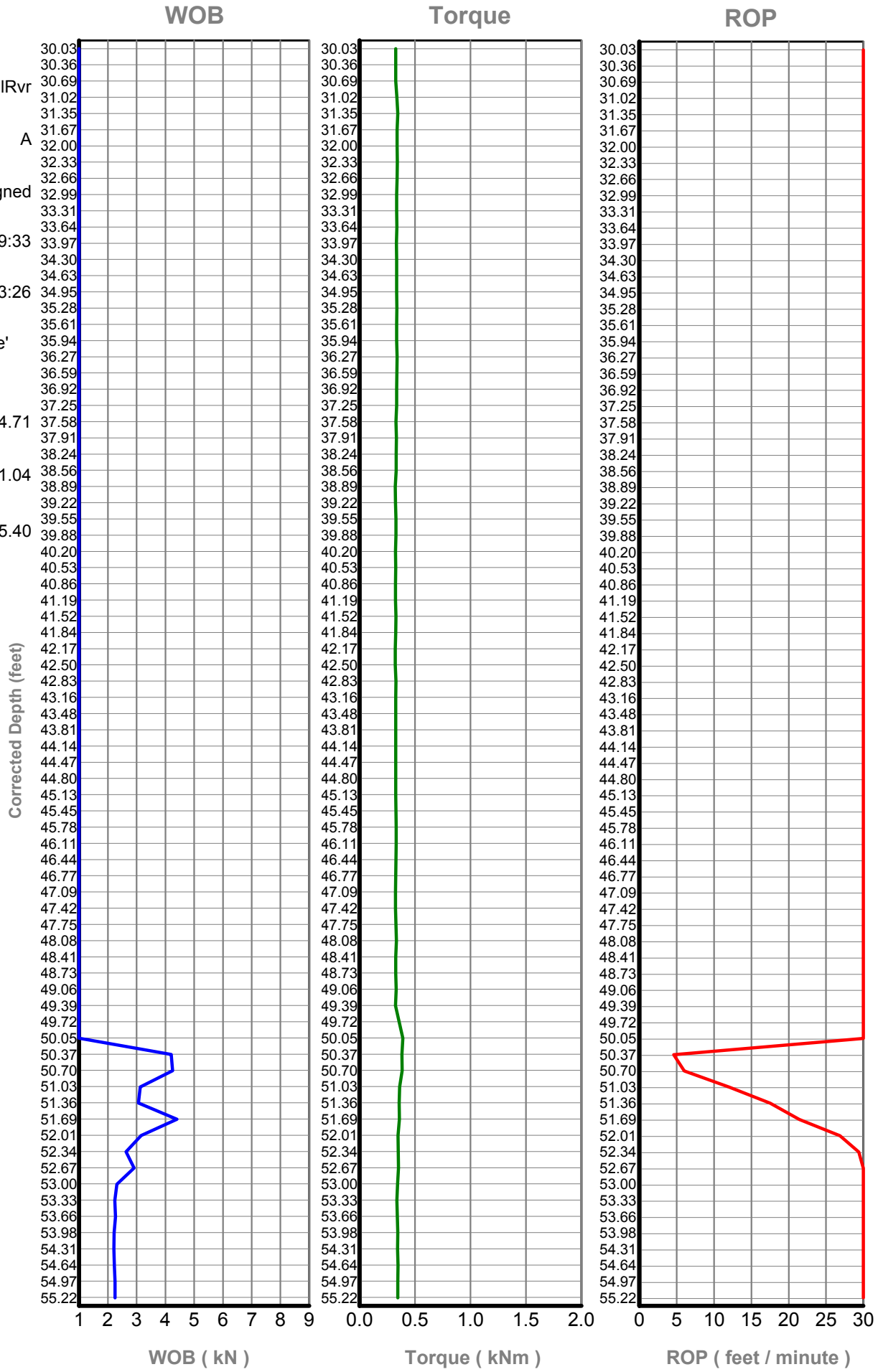
**End Date:**
4/23/2015 6:13:26

**Operator Note:**
'5.4 5.5 b Auto Complete'

**Northing:**
367,144.71

**Easting:**
252,091.04

**Tide (feet):**
5.40



## Hole: G32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 6:05:00 | 35.76 | 30.26 | 940 | 0.25 | 0.36 | 51.4 |
| 4/23/2015 6:05:01 | 36.09 | 30.59 | 945 | 0.26 | 0.36 | 51.7 |
| 4/23/2015 6:05:02 | 36.42 | 30.92 | 936 | 0.25 | 0.36 | 51.2 |
| 4/23/2015 6:05:02 | 36.75 | 31.25 | 936 | 0.25 | 0.36 | 51.2 |
| 4/23/2015 6:05:02 | 37.07 | 31.57 | 934 | 0.25 | 0.36 | 51.1 |
| 4/23/2015 6:05:03 | 37.40 | 31.90 | 931 | 0.24 | 0.36 | 50.9 |
| 4/23/2015 6:05:03 | 37.73 | 32.23 | 934 | 0.25 | 0.36 | 51.1 |
| 4/23/2015 6:05:04 | 38.06 | 32.56 | 934 | 0.25 | 0.36 | 51.1 |
| 4/23/2015 6:05:04 | 38.39 | 32.89 | 934 | 0.25 | 0.36 | 51.1 |
| 4/23/2015 6:05:04 | 38.71 | 33.21 | 940 | 0.25 | 0.36 | 51.4 |
| 4/23/2015 6:05:05 | 39.04 | 33.54 | 940 | 0.25 | 0.36 | 51.4 |
| 4/23/2015 6:05:05 | 39.37 | 33.87 | 942 | 0.25 | 0.36 | 51.5 |
| 4/23/2015 6:05:05 | 39.70 | 34.20 | 951 | 0.24 | 0.36 | 52.0 |
| 4/23/2015 6:05:06 | 40.03 | 34.53 | 951 | 0.25 | 0.36 | 52.0 |
| 4/23/2015 6:05:06 | 40.35 | 34.85 | 951 | 0.25 | 0.36 | 52.0 |
| 4/23/2015 6:05:06 | 40.68 | 35.18 | 954 | 0.24 | 0.36 | 52.2 |
| 4/23/2015 6:05:07 | 41.01 | 35.51 | 943 | 0.33 | 0.39 | 51.6 |
| 4/23/2015 6:05:08 | 41.34 | 35.84 | 727 | 0.25 | 0.39 | 39.8 |
| 4/23/2015 6:05:10 | 41.67 | 36.17 | 211 | 0.25 | 0.39 | 11.6 |
| 4/23/2015 6:05:12 | 41.99 | 36.49 | 217 | 0.25 | 0.40 | 11.9 |
| 4/23/2015 6:05:13 | 42.32 | 36.82 | 214 | 0.25 | 0.39 | 11.7 |
| 4/23/2015 6:05:15 | 42.65 | 37.15 | 217 | 0.25 | 0.39 | 11.9 |
| 4/23/2015 6:05:16 | 42.98 | 37.48 | 217 | 0.25 | 0.39 | 11.9 |
| 4/23/2015 6:05:18 | 43.31 | 37.81 | 215 | 0.25 | 0.40 | 11.8 |
| 4/23/2015 6:05:19 | 43.64 | 38.14 | 303 | 0.18 | 0.33 | 16.5 |
| 4/23/2015 6:05:19 | 43.96 | 38.46 | 303 | 0.18 | 0.33 | 16.5 |
| 4/23/2015 6:05:19 | 44.29 | 38.79 | 435 | 0.18 | 0.33 | 23.8 |
| 4/23/2015 6:05:20 | 44.62 | 39.12 | 569 | 0.18 | 0.33 | 31.1 |
| 4/23/2015 6:05:20 | 44.95 | 39.45 | 711 | 0.19 | 0.33 | 38.9 |
| 4/23/2015 6:05:21 | 45.28 | 39.78 | 711 | 0.19 | 0.33 | 38.9 |
| 4/23/2015 6:05:21 | 45.60 | 40.10 | 842 | 0.18 | 0.33 | 46.0 |
| 4/23/2015 6:05:21 | 45.93 | 40.43 | 890 | 0.19 | 0.33 | 48.7 |
| 4/23/2015 6:05:22 | 46.26 | 40.76 | 896 | 0.18 | 0.33 | 49.0 |
| 4/23/2015 6:05:23 | 46.59 | 41.09 | 896 | 0.18 | 0.33 | 49.0 |
| 4/23/2015 6:05:23 | 46.92 | 41.42 | 896 | 0.02 | 0.33 | 49.0 |
| 4/23/2015 6:05:23 | 47.24 | 41.74 | 888 | 0.18 | 0.33 | 48.5 |
| 4/23/2015 6:05:24 | 47.57 | 42.07 | 896 | 0.18 | 0.32 | 49.0 |
| 4/23/2015 6:05:24 | 47.90 | 42.40 | 899 | 0.18 | 0.33 | 49.2 |
| 4/23/2015 6:05:25 | 48.23 | 42.73 | 899 | 0.18 | 0.33 | 49.2 |
| 4/23/2015 6:05:25 | 48.56 | 43.06 | 894 | 0.18 | 0.33 | 48.9 |
| 4/23/2015 6:05:25 | 48.88 | 43.38 | 902 | 0.18 | 0.33 | 49.3 |
| 4/23/2015 6:05:26 | 49.21 | 43.71 | 902 | 0.19 | 0.32 | 49.3 |
| 4/23/2015 6:05:26 | 49.54 | 44.04 | 902 | 0.19 | 0.32 | 49.3 |
| 4/23/2015 6:05:26 | 49.87 | 44.37 | 902 | 0.18 | 0.33 | 49.3 |
| 4/23/2015 6:05:27 | 50.20 | 44.70 | 902 | 0.19 | 0.33 | 49.3 |
| 4/23/2015 6:05:27 | 50.53 | 45.03 | 902 | 0.20 | 0.33 | 49.3 |
| 4/23/2015 6:05:28 | 50.85 | 45.35 | 902 | 0.20 | 0.33 | 49.3 |
| 4/23/2015 6:05:28 | 51.18 | 45.68 | 905 | 0.19 | 0.32 | 49.5 |
| 4/23/2015 6:05:28 | 51.51 | 46.01 | 908 | 0.19 | 0.33 | 49.6 |
| 4/23/2015 6:05:29 | 51.84 | 46.34 | 905 | 0.19 | 0.33 | 49.5 |
| 4/23/2015 6:05:29 | 52.17 | 46.67 | 905 | 0.19 | 0.33 | 49.5 |
| 4/23/2015 6:05:29 | 52.49 | 46.99 | 902 | 0.16 | 0.33 | 49.3 |
| 4/23/2015 6:05:30 | 52.82 | 47.32 | 899 | 0.19 | 0.33 | 49.2 |
| 4/23/2015 6:05:30 | 53.15 | 47.65 | 899 | 0.21 | 0.32 | 49.2 |
| 4/23/2015 6:05:31 | 53.48 | 47.98 | 899 | 0.21 | 0.32 | 49.2 |
| 4/23/2015 6:05:31 | 53.81 | 48.31 | 893 | 0.19 | 0.33 | 48.9 |
| 4/23/2015 6:05:32 | 54.13 | 48.63 | 893 | 0.19 | 0.33 | 48.9 |
| 4/23/2015 6:05:32 | 54.46 | 48.96 | 884 | 0.18 | 0.34 | 48.3 |
| 4/23/2015 6:05:33 | 54.79 | 49.29 | 897 | 0.19 | 0.33 | 49.1 |
| 4/23/2015 6:05:33 | 55.12 | 49.62 | 897 | 0.19 | 0.33 | 49.1 |
| 4/23/2015 6:05:33 | 55.45 | 49.95 | 894 | 0.18 | 0.34 | 48.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 6:05:34 | 55.77 | 50.27 | 880 | 0.18 | 0.37 | 48.1 |
| 4/23/2015 | 6:05:52 | 56.10 | 50.60 | 36 | 6.24 | 0.38 | 2.0 |
| 4/23/2015 | 6:05:53 | 56.43 | 50.93 | 109 | 4.63 | 0.38 | 5.9 |
| 4/23/2015 | 6:05:54 | 56.76 | 51.26 | 263 | 2.60 | 0.35 | 14.4 |
| 4/23/2015 | 6:05:54 | 57.09 | 51.59 | 391 | 4.72 | 0.36 | 21.4 |
| 4/23/2015 | 6:05:55 | 57.41 | 51.91 | 442 | 2.53 | 0.34 | 24.1 |
| 4/23/2015 | 6:05:55 | 57.74 | 52.24 | 442 | 2.38 | 0.34 | 24.1 |
| 4/23/2015 | 6:05:56 | 58.07 | 52.57 | 499 | 2.38 | 0.35 | 27.3 |
| 4/23/2015 | 6:05:56 | 58.40 | 52.90 | 499 | 2.35 | 0.35 | 27.3 |
| 4/23/2015 | 6:05:57 | 58.73 | 53.23 | 588 | 2.31 | 0.35 | 32.1 |
| 4/23/2015 | 6:05:57 | 59.06 | 53.56 | 630 | 2.30 | 0.35 | 34.5 |
| 4/23/2015 | 6:05:58 | 59.38 | 53.88 | 647 | 2.59 | 0.35 | 35.4 |
| 4/23/2015 | 6:05:58 | 59.71 | 54.21 | 682 | 2.31 | 0.35 | 37.3 |
| 4/23/2015 | 6:05:59 | 60.04 | 54.54 | 682 | 2.31 | 0.34 | 37.3 |
| 4/23/2015 | 6:05:59 | 60.37 | 54.87 | 701 | 2.31 | 0.35 | 38.3 |
| 4/23/2015 | 6:06:00 | 60.70 | 55.20 | 689 | 2.29 | 0.35 | 37.7 |
| 4/23/2015 | 6:06:00 | 60.95 | 55.45 | 689 | 2.29 | 0.37 | 37.7 |

## G32 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 6:02:04

**End Date:**
4/23/2015 6:07:11

**Operator Note:**
'5.5 5.8 b Auto Complete'

**Northing:**
367,192.51

**Easting:**
252,135.57

**Tide (feet):**
5.50



## Hole: G33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 6:06:54 | 35.43 | 30.03 | 404 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:06:55 | 35.76 | 30.36 | 402 | 1.71 | 0.17 | 22.0 |
| 4/23/2015 6:06:55 | 36.09 | 30.69 | 402 | 1.71 | 0.17 | 22.0 |
| 4/23/2015 6:06:56 | 36.42 | 31.02 | 410 | 1.70 | 0.17 | 22.4 |
| 4/23/2015 6:06:57 | 36.75 | 31.35 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 6:06:58 | 37.07 | 31.67 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:06:59 | 37.40 | 32.00 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:00 | 37.73 | 32.33 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:01 | 38.06 | 32.66 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 6:07:02 | 38.39 | 32.99 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:03 | 38.71 | 33.31 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:04 | 39.04 | 33.64 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:04 | 39.37 | 33.97 | 397 | 1.71 | 0.17 | 21.7 |
| 4/23/2015 6:07:05 | 39.70 | 34.30 | 402 | 1.72 | 0.17 | 22.0 |
| 4/23/2015 6:07:06 | 40.03 | 34.63 | 405 | 1.68 | 0.17 | 22.1 |
| 4/23/2015 6:07:07 | 40.35 | 34.95 | 407 | 1.72 | 0.17 | 22.3 |
| 4/23/2015 6:07:08 | 40.68 | 35.28 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:09 | 41.01 | 35.61 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:09 | 41.34 | 35.94 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:11 | 41.67 | 36.27 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:12 | 41.99 | 36.59 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:13 | 42.32 | 36.92 | 400 | 1.71 | 0.17 | 21.9 |
| 4/23/2015 6:07:13 | 42.65 | 37.25 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:14 | 42.98 | 37.58 | 402 | 1.71 | 0.17 | 22.0 |
| 4/23/2015 6:07:15 | 43.31 | 37.91 | 403 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:16 | 43.64 | 38.24 | 403 | 1.73 | 0.17 | 22.0 |
| 4/23/2015 6:07:17 | 43.96 | 38.56 | 400 | 1.70 | 0.17 | 21.9 |
| 4/23/2015 6:07:18 | 44.29 | 38.89 | 405 | 1.70 | 0.17 | 22.1 |
| 4/23/2015 6:07:18 | 44.62 | 39.22 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 6:07:19 | 44.95 | 39.55 | 405 | 1.70 | 0.17 | 22.2 |
| 4/23/2015 6:07:20 | 45.28 | 39.88 | 403 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:22 | 45.60 | 40.20 | 407 | 1.70 | 0.18 | 22.3 |
| 4/23/2015 6:07:22 | 45.93 | 40.53 | 399 | 1.71 | 0.17 | 21.8 |
| 4/23/2015 6:07:23 | 46.26 | 40.86 | 402 | 1.70 | 0.18 | 22.0 |
| 4/23/2015 6:07:24 | 46.59 | 41.19 | 402 | 1.70 | 0.17 | 22.0 |
| 4/23/2015 6:07:25 | 46.92 | 41.52 | 405 | 1.71 | 0.17 | 22.1 |
| 4/23/2015 6:07:26 | 47.24 | 41.84 | 396 | 1.70 | 0.17 | 21.6 |
| 4/23/2015 6:07:27 | 47.57 | 42.17 | 398 | 1.70 | 0.18 | 21.8 |
| 4/23/2015 6:07:28 | 47.90 | 42.50 | 392 | 1.71 | 0.17 | 21.4 |
| 4/23/2015 6:07:28 | 48.23 | 42.83 | 392 | 1.71 | 0.18 | 21.4 |
| 4/23/2015 6:07:29 | 48.56 | 43.16 | 399 | 1.71 | 0.18 | 21.8 |
| 4/23/2015 6:07:31 | 48.88 | 43.48 | 406 | 1.71 | 0.18 | 22.2 |
| 4/23/2015 6:07:31 | 49.21 | 43.81 | 401 | 1.71 | 0.18 | 21.9 |
| 4/23/2015 6:07:32 | 49.54 | 44.14 | 408 | 1.72 | 0.18 | 22.3 |
| 4/23/2015 6:07:33 | 49.87 | 44.47 | 394 | 1.70 | 0.18 | 21.5 |
| 4/23/2015 6:07:34 | 50.20 | 44.80 | 405 | 1.71 | 0.18 | 22.2 |
| 4/23/2015 6:07:35 | 50.53 | 45.13 | 405 | 1.70 | 0.18 | 22.1 |
| 4/23/2015 6:07:36 | 50.85 | 45.45 | 407 | 1.70 | 0.17 | 22.3 |
| 4/23/2015 6:07:37 | 51.18 | 45.78 | 399 | 1.70 | 0.18 | 21.8 |
| 4/23/2015 6:07:37 | 51.51 | 46.11 | 397 | 1.71 | 0.17 | 21.7 |
| 4/23/2015 6:07:38 | 51.84 | 46.44 | 397 | 1.70 | 0.18 | 21.7 |
| 4/23/2015 6:07:39 | 52.17 | 46.77 | 390 | 1.70 | 0.17 | 21.3 |
| 4/23/2015 6:07:40 | 52.49 | 47.09 | 402 | 1.76 | 0.18 | 22.0 |
| 4/23/2015 6:07:41 | 52.82 | 47.42 | 397 | 1.70 | 0.18 | 21.7 |
| 4/23/2015 6:07:42 | 53.15 | 47.75 | 396 | 1.69 | 0.18 | 21.7 |
| 4/23/2015 6:07:44 | 53.48 | 48.08 | 293 | 1.44 | 0.18 | 16.0 |
| 4/23/2015 6:08:18 | 53.81 | 48.41 | 94 | 1.72 | 1.12 | 5.1 |
| 4/23/2015 6:08:19 | 54.13 | 48.73 | 242 | 1.72 | 1.12 | 13.2 |
| 4/23/2015 6:08:20 | 54.46 | 49.06 | 358 | 1.72 | 1.13 | 19.6 |
| 4/23/2015 6:08:21 | 54.79 | 49.39 | 346 | 1.71 | 1.11 | 18.9 |
| 4/23/2015 6:08:22 | 55.12 | 49.72 | 342 | 1.72 | 1.11 | 18.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 6:08:23 | 55.45 | 50.05 | 337 | 1.71 | 1.10 | 18.4 |
| 4/23/2015 | 6:08:24 | 55.77 | 50.37 | 341 | 1.71 | 1.10 | 18.6 |
| 4/23/2015 | 6:08:25 | 56.10 | 50.70 | 325 | 1.71 | 1.10 | 17.8 |
| 4/23/2015 | 6:08:27 | 56.43 | 51.03 | 331 | 1.72 | 1.09 | 18.1 |
| 4/23/2015 | 6:08:27 | 56.76 | 51.36 | 336 | 1.71 | 1.09 | 18.4 |
| 4/23/2015 | 6:08:28 | 57.09 | 51.69 | 332 | 1.70 | 1.09 | 18.2 |
| 4/23/2015 | 6:08:29 | 57.41 | 52.01 | 339 | 1.72 | 1.09 | 18.5 |
| 4/23/2015 | 6:08:30 | 57.74 | 52.34 | 332 | 1.72 | 1.08 | 18.1 |
| 4/23/2015 | 6:08:31 | 58.07 | 52.67 | 330 | 1.72 | 1.09 | 18.1 |
| 4/23/2015 | 6:08:32 | 58.40 | 53.00 | 331 | 1.72 | 1.08 | 18.1 |
| 4/23/2015 | 6:08:34 | 58.73 | 53.33 | 335 | 1.72 | 1.09 | 18.3 |
| 4/23/2015 | 6:08:35 | 59.06 | 53.66 | 334 | 1.71 | 1.08 | 18.2 |
| 4/23/2015 | 6:08:36 | 59.38 | 53.98 | 327 | 1.71 | 1.08 | 17.9 |
| 4/23/2015 | 6:08:37 | 59.71 | 54.31 | 335 | 1.71 | 1.08 | 18.3 |
| 4/23/2015 | 6:08:38 | 60.04 | 54.64 | 347 | 1.72 | 1.08 | 19.0 |
| 4/23/2015 | 6:08:39 | 60.37 | 54.97 | 341 | 1.73 | 1.08 | 18.6 |
| 4/23/2015 | 6:08:40 | 60.70 | 55.30 | 337 | 1.72 | 1.07 | 18.4 |
| 4/23/2015 | 6:08:41 | 61.01 | 55.61 | 338 | 1.66 | 1.07 | 18.5 |

## G33 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 6:04:01

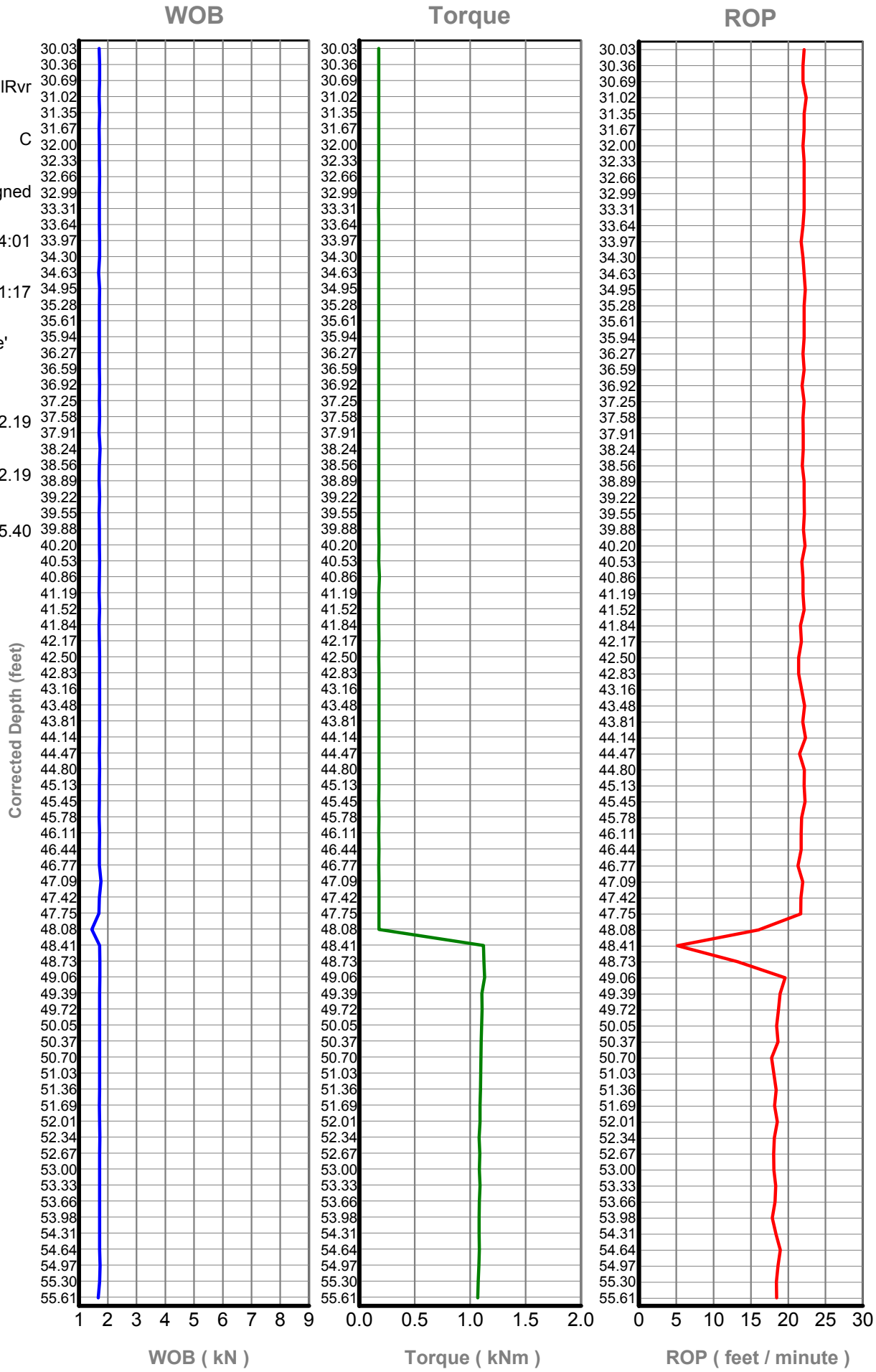
**End Date:**
4/23/2015 6:11:17

**Operator Note:**
'5.4 5.8 c Auto Complete'

**Northing:**
367,232.19

**Easting:**
252,192.19

**Tide (feet):**
5.40



## Hole: G34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:29:42 | 35.11 | 30.11 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:43 | 35.43 | 30.43 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:43 | 35.76 | 30.76 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:43 | 36.09 | 31.09 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:44 | 36.42 | 31.42 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:44 | 36.75 | 31.75 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:29:44 | 37.07 | 32.07 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:45 | 37.40 | 32.40 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:45 | 37.73 | 32.73 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:29:46 | 38.06 | 33.06 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:29:46 | 38.39 | 33.39 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:29:46 | 38.71 | 33.71 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 18:29:47 | 39.04 | 34.04 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 18:29:47 | 39.37 | 34.37 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:48 | 39.70 | 34.70 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:48 | 40.03 | 35.03 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:48 | 40.35 | 35.35 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:49 | 40.68 | 35.68 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:29:49 | 41.01 | 36.01 | 1,002 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 18:29:49 | 41.34 | 36.34 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 18:29:50 | 41.67 | 36.67 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 18:29:50 | 41.99 | 36.99 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:29:50 | 42.32 | 37.32 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:29:51 | 42.65 | 37.65 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:29:51 | 42.98 | 37.98 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:29:51 | 43.31 | 38.31 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:29:52 | 43.64 | 38.64 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:29:52 | 43.96 | 38.96 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:29:52 | 44.29 | 39.29 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:29:53 | 44.62 | 39.62 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:29:53 | 44.95 | 39.95 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 18:29:53 | 45.28 | 40.28 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:29:54 | 45.60 | 40.60 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 18:29:54 | 45.93 | 40.93 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 18:29:54 | 46.26 | 41.26 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:55 | 46.59 | 41.59 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:56 | 46.92 | 41.92 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 18:29:55 | 47.24 | 42.24 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 18:29:56 | 47.57 | 42.57 | 1,014 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 18:29:57 | 47.90 | 42.90 | 1,014 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 18:29:57 | 48.23 | 43.23 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:29:57 | 48.56 | 43.56 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:29:58 | 48.88 | 43.88 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:29:58 | 49.21 | 44.21 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:30:14 | 49.54 | 44.54 | 47 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 18:30:20 | 49.87 | 44.87 | 60 | 1.66 | 1.29 | 3.3 |
| 4/22/2015 18:30:27 | 50.20 | 45.20 | 46 | 1.66 | 1.29 | 2.5 |
| 4/22/2015 18:30:29 | 50.30 | 45.30 | 47 | 1.66 | 1.29 | 2.6 |

## G34 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:28:23

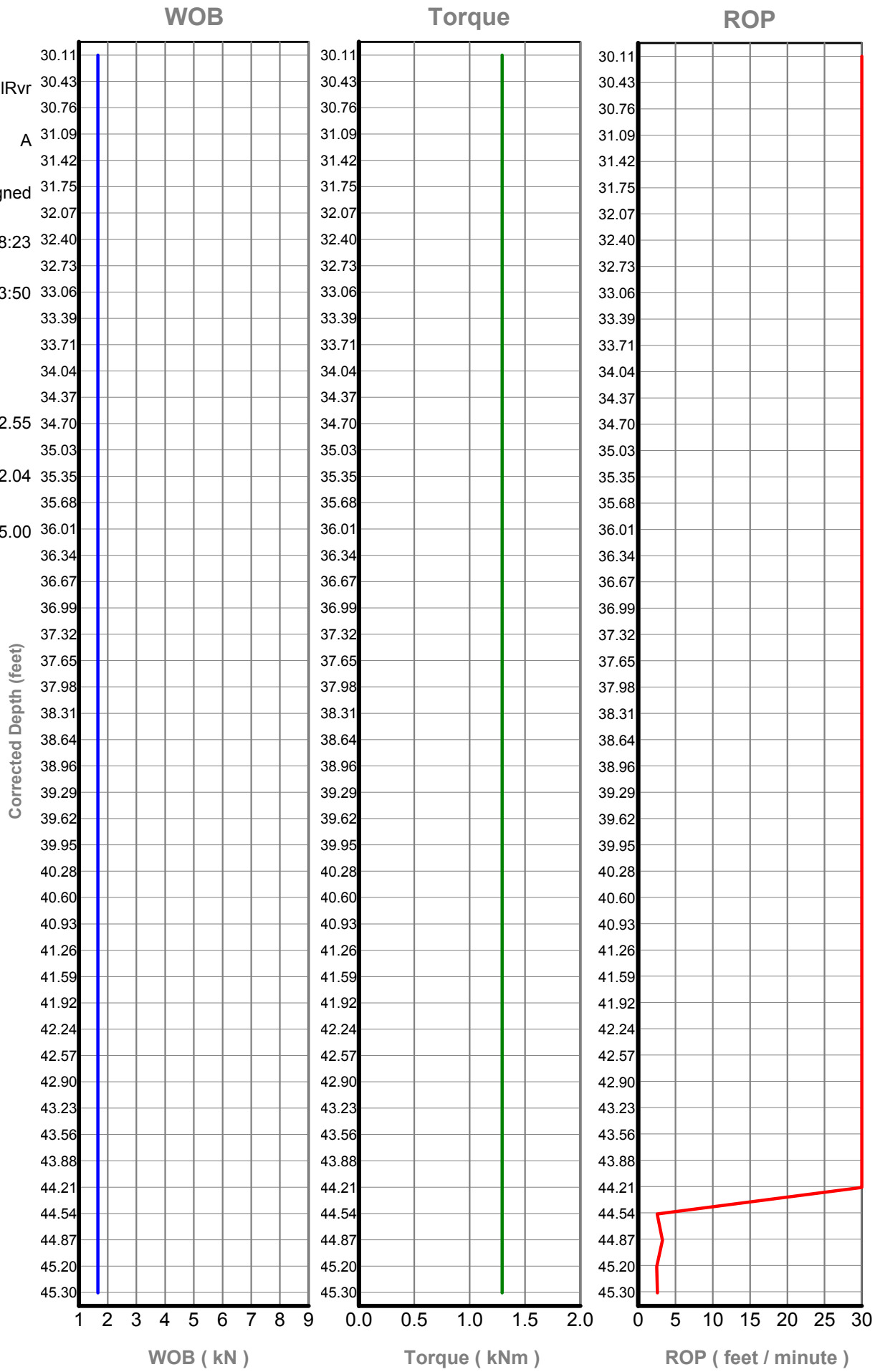
**End Date:**
4/22/2015 18:33:50

**Operator Note:**
'5 '3 5.4 b Auto Complete'

**Northing:**
367,292.55

**Easting:**
252,272.04

**Tide (feet):**
5.00



## Hole: G35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:25:38 | 35.11 | 30.01 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:25:39 | 35.43 | 30.33 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:25:39 | 35.76 | 30.66 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 18:25:39 | 36.09 | 30.99 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:25:40 | 36.42 | 31.32 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:40 | 36.75 | 31.65 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:40 | 37.07 | 31.97 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:25:41 | 37.40 | 32.30 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:25:42 | 37.73 | 32.63 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:25:42 | 38.06 | 32.96 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:25:42 | 38.39 | 33.29 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:43 | 38.71 | 33.61 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:43 | 39.04 | 33.94 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:25:43 | 39.37 | 34.27 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:44 | 39.70 | 34.60 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:44 | 40.03 | 34.93 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:44 | 40.35 | 35.25 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:45 | 40.68 | 35.58 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:45 | 41.01 | 35.91 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 18:25:45 | 41.34 | 36.24 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:25:46 | 41.67 | 36.57 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:25:46 | 41.99 | 36.89 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:46 | 42.32 | 37.22 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:47 | 42.65 | 37.55 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:47 | 42.98 | 37.88 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:47 | 43.31 | 38.21 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 18:25:48 | 43.64 | 38.54 | 1,001 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 18:25:48 | 43.96 | 38.86 | 1,001 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 18:25:48 | 44.29 | 39.19 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 18:25:49 | 44.62 | 39.52 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:25:49 | 44.95 | 39.85 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:25:49 | 45.28 | 40.18 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:50 | 45.60 | 40.50 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:50 | 45.93 | 40.83 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:50 | 46.26 | 41.16 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:51 | 46.59 | 41.49 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:51 | 46.92 | 41.82 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:25:51 | 47.24 | 42.14 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:52 | 47.57 | 42.47 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:52 | 47.90 | 42.80 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:52 | 48.23 | 43.13 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:53 | 48.56 | 43.46 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:54 | 48.88 | 43.78 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:54 | 49.21 | 44.11 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:54 | 49.54 | 44.44 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:25:55 | 49.87 | 44.77 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:55 | 50.20 | 45.10 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:25:55 | 50.53 | 45.43 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:26:09 | 50.85 | 45.75 | 64 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 18:26:15 | 51.18 | 46.08 | 55 | 1.66 | 1.29 | 3.0 |
| 4/22/2015 18:26:23 | 51.51 | 46.41 | 50 | 1.66 | 1.29 | 2.7 |
| 4/22/2015 18:26:29 | 51.84 | 46.74 | 52 | 1.66 | 1.29 | 2.9 |
| 4/22/2015 18:26:30 | 51.90 | 46.80 | 55 | 1.66 | 1.29 | 3.0 |

## G35 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:23:13

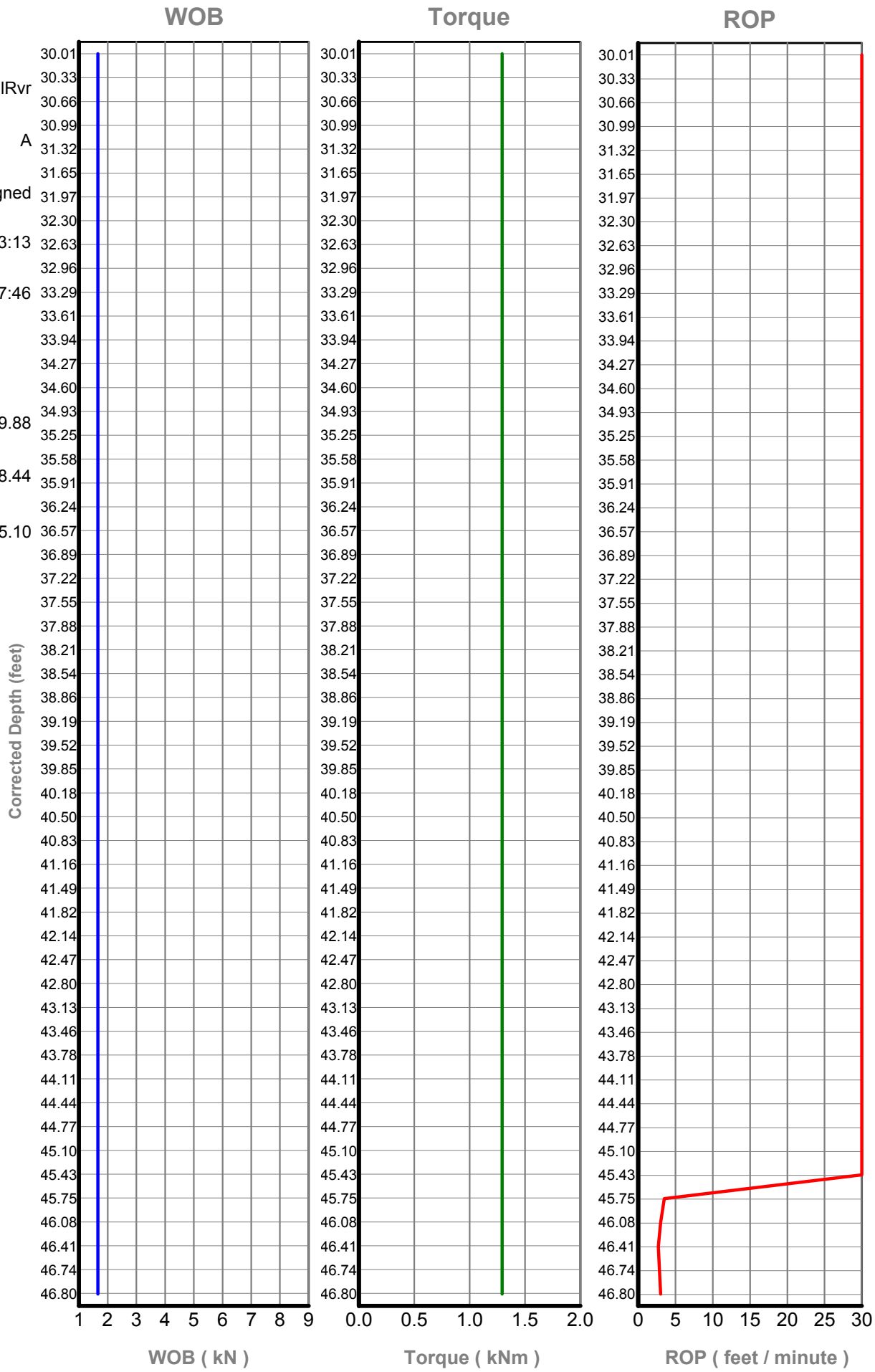
**End Date:**
4/22/2015 18:27:46

**Operator Note:**
'5.1 '3.2 5.4 b Rock'

**Northing:**
367,329.88

**Easting:**
252,318.44

**Tide (feet):**
5.10



## Hole: G36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:27:43 | 35.11 | 30.01 | 488 | 1.67 | 0.30 | 26.7 |
| 4/22/2015 18:27:44 | 35.43 | 30.33 | 492 | 1.71 | 0.30 | 26.9 |
| 4/22/2015 18:27:44 | 35.76 | 30.66 | 492 | 1.70 | 0.30 | 26.9 |
| 4/22/2015 18:27:45 | 36.09 | 30.99 | 494 | 1.70 | 0.30 | 27.0 |
| 4/22/2015 18:27:46 | 36.42 | 31.32 | 497 | 1.93 | 0.30 | 27.2 |
| 4/22/2015 18:27:46 | 36.75 | 31.65 | 494 | 1.71 | 0.30 | 27.0 |
| 4/22/2015 18:27:47 | 37.07 | 31.97 | 494 | 1.68 | 0.30 | 27.0 |
| 4/22/2015 18:27:48 | 37.40 | 32.30 | 494 | 1.65 | 0.30 | 27.0 |
| 4/22/2015 18:27:48 | 37.73 | 32.63 | 494 | 1.68 | 0.30 | 27.0 |
| 4/22/2015 18:27:49 | 38.06 | 32.96 | 500 | 1.66 | 0.30 | 27.4 |
| 4/22/2015 18:27:50 | 38.39 | 33.29 | 497 | 1.62 | 0.30 | 27.2 |
| 4/22/2015 18:27:51 | 38.71 | 33.61 | 494 | 1.69 | 0.30 | 27.0 |
| 4/22/2015 18:27:51 | 39.04 | 33.94 | 494 | 1.70 | 0.30 | 27.0 |
| 4/22/2015 18:27:52 | 39.37 | 34.27 | 491 | 1.72 | 0.30 | 26.9 |
| 4/22/2015 18:27:53 | 39.70 | 34.60 | 489 | 1.67 | 0.30 | 26.7 |
| 4/22/2015 18:27:54 | 40.03 | 34.93 | 494 | 1.68 | 0.30 | 27.0 |
| 4/22/2015 18:27:55 | 40.35 | 35.25 | 494 | 1.66 | 0.30 | 27.0 |
| 4/22/2015 18:27:55 | 40.68 | 35.58 | 494 | 1.70 | 0.30 | 27.0 |
| 4/22/2015 18:27:56 | 41.01 | 35.91 | 497 | 1.67 | 0.30 | 27.2 |
| 4/22/2015 18:27:57 | 41.34 | 36.24 | 494 | 1.69 | 0.29 | 27.0 |
| 4/22/2015 18:27:57 | 41.67 | 36.57 | 491 | 1.66 | 0.29 | 26.9 |
| 4/22/2015 18:27:58 | 41.99 | 36.89 | 491 | 1.68 | 0.29 | 26.9 |
| 4/22/2015 18:27:59 | 42.32 | 37.22 | 488 | 1.70 | 0.29 | 26.7 |
| 4/22/2015 18:27:59 | 42.65 | 37.55 | 491 | 1.70 | 0.29 | 26.9 |
| 4/22/2015 18:28:00 | 42.98 | 37.88 | 491 | 1.71 | 0.30 | 26.9 |
| 4/22/2015 18:28:01 | 43.31 | 38.21 | 489 | 1.70 | 0.29 | 26.7 |
| 4/22/2015 18:28:02 | 43.64 | 38.54 | 492 | 1.67 | 0.29 | 26.9 |
| 4/22/2015 18:28:03 | 43.96 | 38.86 | 489 | 1.66 | 0.30 | 26.7 |
| 4/22/2015 18:28:03 | 44.29 | 39.19 | 489 | 1.66 | 0.29 | 26.7 |
| 4/22/2015 18:28:04 | 44.62 | 39.52 | 492 | 1.68 | 0.29 | 26.9 |
| 4/22/2015 18:28:05 | 44.95 | 39.85 | 489 | 1.67 | 0.30 | 26.7 |
| 4/22/2015 18:28:06 | 45.28 | 40.18 | 486 | 1.76 | 0.29 | 26.6 |
| 4/22/2015 18:28:06 | 45.60 | 40.50 | 489 | 1.69 | 0.29 | 26.7 |
| 4/22/2015 18:28:07 | 45.93 | 40.83 | 483 | 1.66 | 0.29 | 26.4 |
| 4/22/2015 18:28:08 | 46.26 | 41.16 | 489 | 1.72 | 0.29 | 26.7 |
| 4/22/2015 18:28:08 | 46.59 | 41.49 | 489 | 1.66 | 0.29 | 26.7 |
| 4/22/2015 18:28:09 | 46.92 | 41.82 | 480 | 1.68 | 0.29 | 26.2 |
| 4/22/2015 18:28:10 | 47.24 | 42.14 | 480 | 1.70 | 0.27 | 26.2 |
| 4/22/2015 18:28:10 | 47.57 | 42.47 | 485 | 1.70 | 0.29 | 26.5 |
| 4/22/2015 18:28:11 | 47.90 | 42.80 | 488 | 1.70 | 0.29 | 26.7 |
| 4/22/2015 18:28:12 | 48.23 | 43.13 | 482 | 1.70 | 0.29 | 26.4 |
| 4/22/2015 18:28:13 | 48.56 | 43.46 | 489 | 1.72 | 0.29 | 26.7 |
| 4/22/2015 18:28:14 | 48.88 | 43.78 | 489 | 1.68 | 0.29 | 26.7 |
| 4/22/2015 18:28:14 | 49.21 | 44.11 | 486 | 1.74 | 0.29 | 26.6 |
| 4/22/2015 18:28:15 | 49.54 | 44.44 | 488 | 1.66 | 0.29 | 26.7 |
| 4/22/2015 18:28:16 | 49.87 | 44.77 | 486 | 1.70 | 0.29 | 26.6 |
| 4/22/2015 18:28:17 | 50.20 | 45.10 | 489 | 1.68 | 0.29 | 26.7 |
| 4/22/2015 18:28:17 | 50.53 | 45.43 | 489 | 1.70 | 0.29 | 26.7 |
| 4/22/2015 18:28:18 | 50.85 | 45.75 | 486 | 1.70 | 0.29 | 26.6 |
| 4/22/2015 18:28:19 | 51.18 | 46.08 | 489 | 1.72 | 0.29 | 26.7 |
| 4/22/2015 18:28:19 | 51.51 | 46.41 | 489 | 1.70 | 0.27 | 26.7 |
| 4/22/2015 18:28:20 | 51.84 | 46.74 | 486 | 1.71 | 0.29 | 26.6 |
| 4/22/2015 18:28:21 | 52.17 | 47.07 | 488 | 1.71 | 0.29 | 26.7 |
| 4/22/2015 18:28:22 | 52.49 | 47.39 | 473 | 1.70 | 0.29 | 25.9 |
| 4/22/2015 18:28:22 | 52.82 | 47.72 | 470 | 1.69 | 0.29 | 25.7 |
| 4/22/2015 18:28:23 | 53.15 | 48.05 | 479 | 1.69 | 0.29 | 26.2 |
| 4/22/2015 18:28:24 | 53.48 | 48.38 | 479 | 1.72 | 0.29 | 26.2 |
| 4/22/2015 18:28:25 | 53.81 | 48.71 | 492 | 1.66 | 0.29 | 26.9 |
| 4/22/2015 18:28:26 | 54.13 | 49.03 | 477 | 1.66 | 0.30 | 26.1 |
| 4/22/2015 18:28:45 | 54.46 | 49.36 | 21 | 1.70 | 1.16 | 1.1 |
| 4/22/2015 18:28:46 | 54.79 | 49.69 | 126 | 1.66 | 1.08 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 18:28:48 | 55.12 | 50.02 | 234 | 1.68 | 1.20 | 12.8 |
| 4/22/2015 | 18:28:50 | 55.45 | 50.35 | 217 | 1.68 | 1.17 | 11.9 |
| 4/22/2015 | 18:28:59 | 55.77 | 50.67 | 6 | 1.68 | 1.14 | 0.3 |
| 4/22/2015 | 18:29:07 | 56.10 | 51.00 | 15 | 1.66 | 1.03 | 0.8 |
| 4/22/2015 | 18:29:09 | 56.43 | 51.33 | 114 | 1.66 | 1.05 | 6.2 |
| 4/22/2015 | 18:29:11 | 56.76 | 51.66 | 184 | 1.66 | 1.02 | 10.0 |
| 4/22/2015 | 18:29:13 | 57.09 | 51.99 | 167 | 1.67 | 1.07 | 9.2 |
| 4/22/2015 | 18:29:16 | 57.41 | 52.31 | 124 | 1.69 | 1.09 | 6.8 |
| 4/22/2015 | 18:29:18 | 57.74 | 52.64 | 132 | 1.65 | 1.05 | 7.2 |
| 4/22/2015 | 18:29:20 | 58.07 | 52.97 | 177 | 1.68 | 1.24 | 9.7 |
| 4/22/2015 | 18:29:22 | 58.40 | 53.30 | 147 | 1.66 | 1.08 | 8.0 |
| 4/22/2015 | 18:29:24 | 58.73 | 53.63 | 155 | 1.65 | 0.98 | 8.5 |
| 4/22/2015 | 18:29:27 | 59.06 | 53.96 | 168 | 1.66 | 1.16 | 9.2 |
| 4/22/2015 | 18:29:29 | 59.38 | 54.28 | 168 | 1.66 | 1.12 | 9.2 |
| 4/22/2015 | 18:29:31 | 59.71 | 54.61 | 174 | 1.65 | 1.47 | 9.5 |
| 4/22/2015 | 18:29:33 | 60.04 | 54.94 | 159 | 1.68 | 1.13 | 8.7 |
| 4/22/2015 | 18:29:35 | 60.37 | 55.27 | 165 | 1.67 | 1.26 | 9.0 |
| 4/22/2015 | 18:29:35 | 60.46 | 55.36 | 171 | 1.68 | 1.14 | 9.3 |

## G36 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:25:25

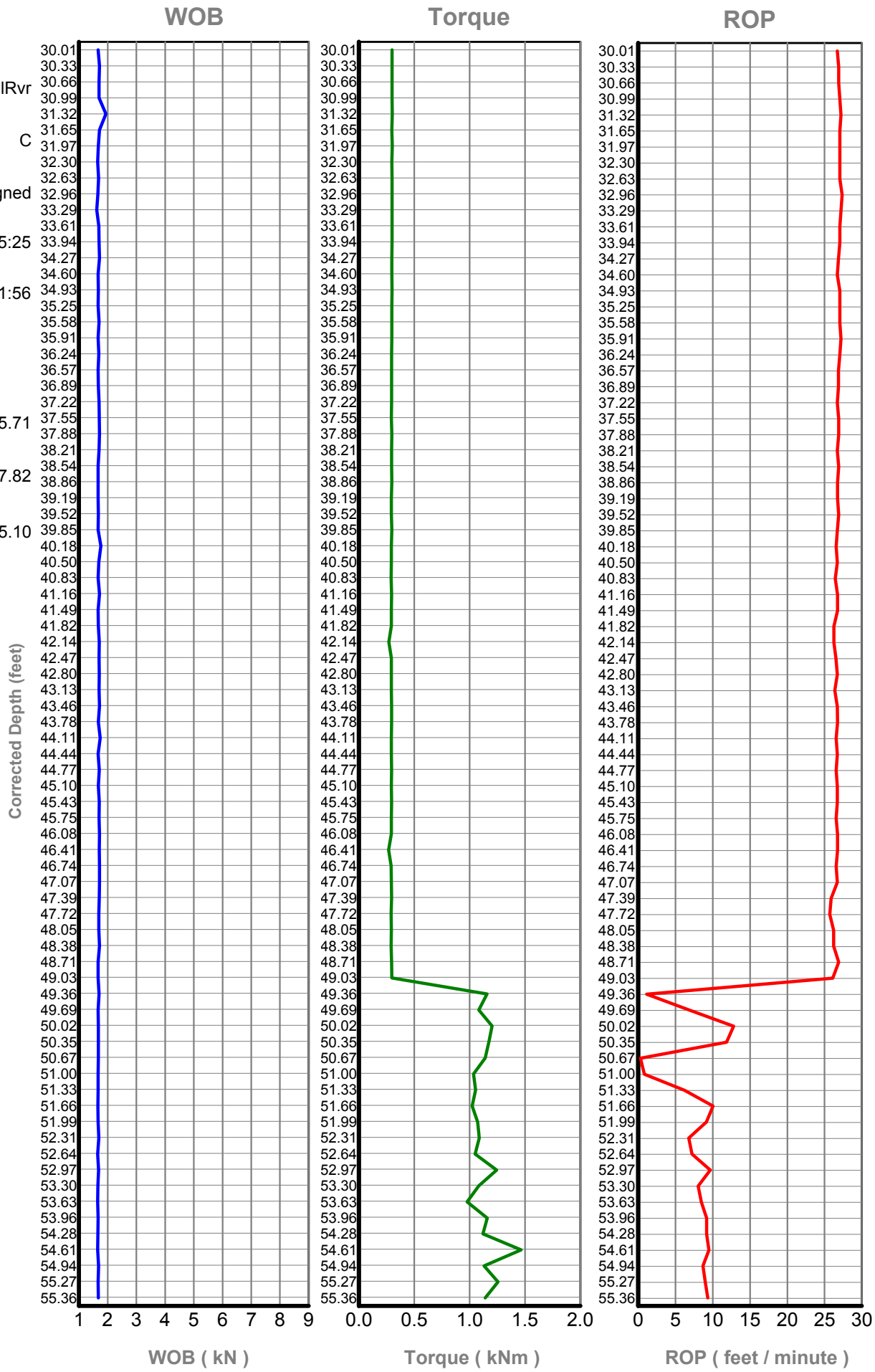
**End Date:**
4/22/2015 18:31:56

**Operator Note:**
'5.1 5.4 C Auto Complete'

**Northing:**
367,375.71

**Easting:**
252,377.82

**Tide (feet):**
5.10



## Hole: G37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:50:57 | 35.76 | 30.26 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:50:58 | 36.09 | 30.59 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:50:58 | 36.42 | 30.92 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:50:58 | 36.75 | 31.25 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:50:59 | 37.07 | 31.57 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:50:59 | 37.40 | 31.90 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:50:59 | 37.73 | 32.23 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:00 | 38.06 | 32.56 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:00 | 38.39 | 32.89 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:00 | 38.71 | 33.21 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:01 | 39.04 | 33.54 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:01 | 39.37 | 33.87 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:01 | 39.70 | 34.20 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:02 | 40.03 | 34.53 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:02 | 40.35 | 34.85 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:02 | 40.68 | 35.18 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:03 | 41.01 | 35.51 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:03 | 41.34 | 35.84 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:03 | 41.67 | 36.17 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:04 | 41.99 | 36.49 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:04 | 42.32 | 36.82 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:51:05 | 42.65 | 37.15 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:51:05 | 42.98 | 37.48 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:05 | 43.31 | 37.81 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:06 | 43.64 | 38.14 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:06 | 43.96 | 38.46 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:06 | 44.29 | 38.79 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:07 | 44.62 | 39.12 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:07 | 44.95 | 39.45 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:07 | 45.28 | 39.78 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:08 | 45.60 | 40.10 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:51:09 | 45.93 | 40.43 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:51:09 | 46.26 | 40.76 | 988 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:09 | 46.59 | 41.09 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:10 | 46.92 | 41.42 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:10 | 47.24 | 41.74 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:10 | 47.57 | 42.07 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:11 | 47.90 | 42.40 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:11 | 48.23 | 42.73 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:11 | 48.56 | 43.06 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:51:12 | 48.88 | 43.38 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:12 | 49.21 | 43.71 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:12 | 49.54 | 44.04 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:13 | 49.87 | 44.37 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:13 | 50.20 | 44.70 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:51:13 | 50.53 | 45.03 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:14 | 50.85 | 45.35 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:14 | 51.18 | 45.68 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:14 | 51.51 | 46.01 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:51:15 | 51.84 | 46.34 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:15 | 52.17 | 46.67 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:16 | 52.49 | 46.99 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:16 | 52.82 | 47.32 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:51:16 | 53.15 | 47.65 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:51:17 | 53.48 | 47.98 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 15:51:17 | 53.81 | 48.31 | 977 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 15:51:17 | 54.13 | 48.63 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:18 | 54.46 | 48.96 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:18 | 54.79 | 49.29 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:18 | 55.12 | 49.62 | 975 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 15:51:19 | 55.45 | 49.95 | 970 | 1.66 | 1.29 | 53.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:51:20 | 55.77 | 50.27 | 970 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 | 15:51:20 | 56.10 | 50.60 | 964 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 | 15:51:20 | 56.43 | 50.93 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 | 15:51:21 | 56.76 | 51.26 | 941 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 | 15:51:21 | 57.09 | 51.59 | 941 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 | 15:51:29 | 57.41 | 51.91 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 15:51:30 | 57.74 | 52.24 | 233 | 1.66 | 1.29 | 12.8 |
| 4/22/2015 | 15:51:32 | 58.07 | 52.57 | 303 | 1.66 | 1.29 | 16.6 |
| 4/22/2015 | 15:51:37 | 58.40 | 52.90 | 32 | 1.66 | 1.29 | 1.8 |
| 4/22/2015 | 15:51:37 | 58.73 | 53.23 | 74 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 15:51:38 | 59.06 | 53.56 | 242 | 1.66 | 1.29 | 13.2 |
| 4/22/2015 | 15:51:39 | 59.38 | 53.88 | 333 | 1.66 | 1.29 | 18.2 |
| 4/22/2015 | 15:51:40 | 59.71 | 54.21 | 453 | 1.66 | 1.29 | 24.8 |
| 4/22/2015 | 15:51:40 | 60.04 | 54.54 | 459 | 1.66 | 1.29 | 25.1 |
| 4/22/2015 | 15:51:41 | 60.37 | 54.87 | 445 | 1.66 | 1.29 | 24.3 |
| 4/22/2015 | 15:51:42 | 60.70 | 55.20 | 424 | 1.66 | 1.29 | 23.2 |
| 4/22/2015 | 15:51:44 | 61.02 | 55.52 | 396 | 1.66 | 1.29 | 21.6 |
| 4/22/2015 | 15:51:44 | 61.31 | 55.81 | 395 | 1.66 | 1.29 | 21.6 |

## G37 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:48:06

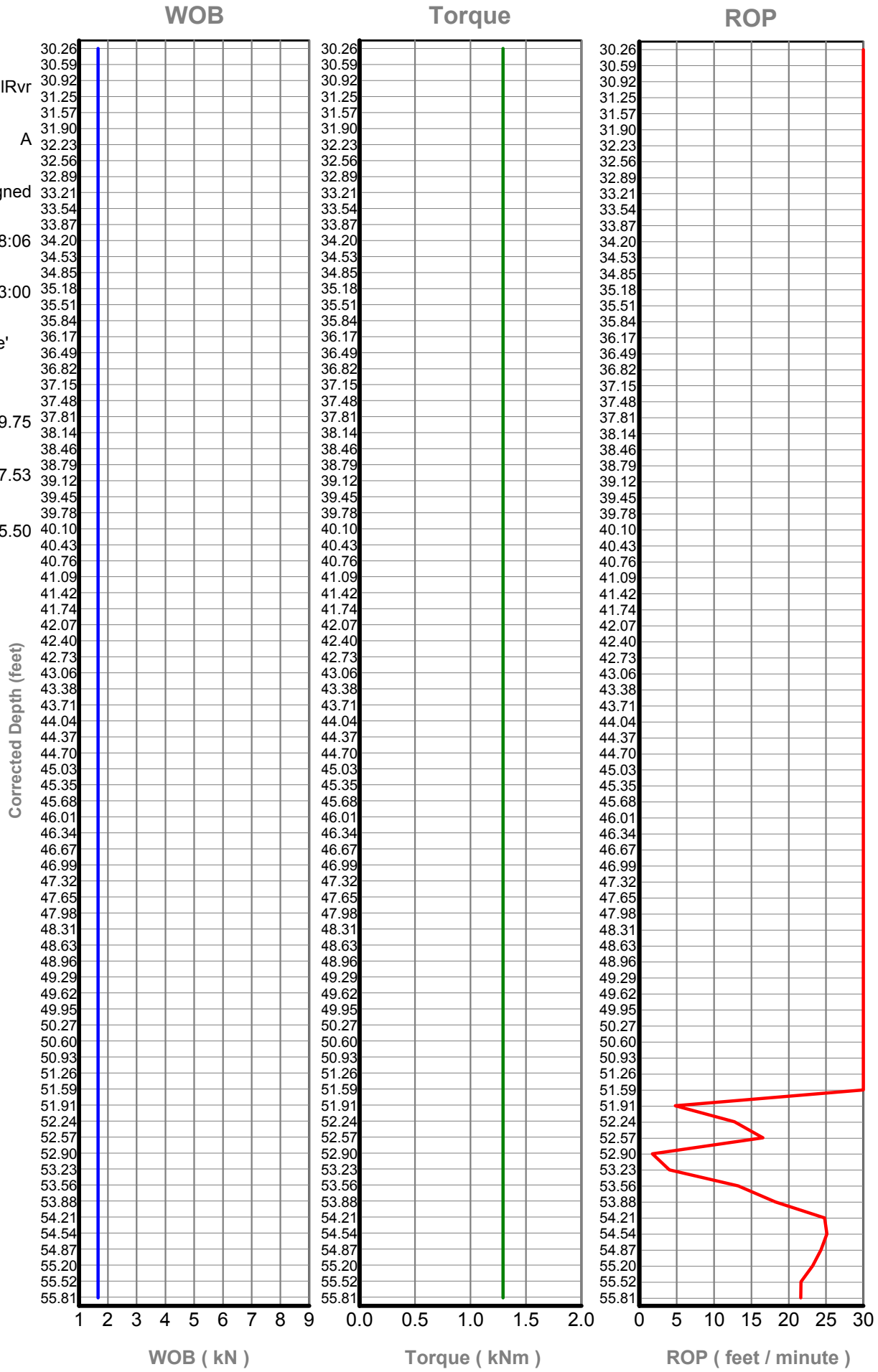
**End Date:**
4/22/2015 15:53:00

**Operator Note:**
'5.5 6.4 b Auto Complete'

**Northing:**
367,439.75

**Easting:**
252,437.53

**Tide (feet):**
5.50



## Hole: G38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:55:18 | 36.75 | 30.25 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:55:19 | 37.07 | 30.57 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:55:19 | 37.40 | 30.90 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:55:19 | 37.73 | 31.23 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:55:20 | 38.06 | 31.56 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:55:20 | 38.39 | 31.89 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:55:20 | 38.71 | 32.21 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 15:55:21 | 39.04 | 32.54 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 15:55:21 | 39.37 | 32.87 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:55:22 | 39.70 | 33.20 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:55:22 | 40.03 | 33.53 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:22 | 40.35 | 33.85 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:55:23 | 40.68 | 34.18 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:55:23 | 41.01 | 34.51 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:24 | 41.34 | 34.84 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:24 | 41.67 | 35.17 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:24 | 41.99 | 35.49 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:25 | 42.32 | 35.82 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:25 | 42.65 | 36.15 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:25 | 42.98 | 36.48 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:55:26 | 43.31 | 36.81 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 15:55:26 | 43.64 | 37.14 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 15:55:26 | 43.96 | 37.46 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:55:27 | 44.29 | 37.79 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:27 | 44.62 | 38.12 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:27 | 44.95 | 38.45 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 15:55:28 | 45.28 | 38.78 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:55:28 | 45.60 | 39.10 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:29 | 45.93 | 39.43 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:29 | 46.26 | 39.76 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 15:55:29 | 46.59 | 40.09 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:30 | 46.92 | 40.42 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 15:55:30 | 47.24 | 40.74 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:30 | 47.57 | 41.07 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:31 | 47.90 | 41.40 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:31 | 48.23 | 41.73 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:55:31 | 48.56 | 42.06 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:55:32 | 48.88 | 42.38 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 15:55:32 | 49.21 | 42.71 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 15:55:32 | 49.54 | 43.04 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 15:55:33 | 49.87 | 43.37 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 15:55:33 | 50.20 | 43.70 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 15:55:33 | 50.53 | 44.03 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:34 | 50.85 | 44.35 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:34 | 51.18 | 44.68 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 15:55:34 | 51.51 | 45.01 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:35 | 51.84 | 45.34 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:36 | 52.17 | 45.67 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 15:55:36 | 52.49 | 45.99 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 15:55:36 | 52.82 | 46.32 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:37 | 53.15 | 46.65 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:37 | 53.48 | 46.98 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:37 | 53.81 | 47.31 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:55:38 | 54.13 | 47.63 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 15:55:38 | 54.46 | 47.96 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:55:38 | 54.79 | 48.29 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 15:55:39 | 55.12 | 48.62 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:55:39 | 55.45 | 48.95 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 15:55:39 | 55.77 | 49.27 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 15:55:40 | 56.10 | 49.60 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 15:55:40 | 56.43 | 49.93 | 983 | 1.66 | 1.29 | 53.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:55:40 | 56.76 | 50.26 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 | 15:55:41 | 57.09 | 50.59 | 968 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 | 15:55:41 | 57.41 | 50.91 | 940 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 | 15:55:42 | 57.74 | 51.24 | 940 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 | 15:55:42 | 58.07 | 51.57 | 940 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 | 15:55:42 | 58.40 | 51.90 | 931 | 1.66 | 1.29 | 50.9 |
| 4/22/2015 | 15:55:49 | 58.73 | 52.23 | 91 | 1.66 | 1.29 | 5.0 |
| 4/22/2015 | 15:55:52 | 59.06 | 52.56 | 115 | 1.66 | 1.29 | 6.3 |
| 4/22/2015 | 15:55:53 | 59.38 | 52.88 | 156 | 1.66 | 1.29 | 8.5 |
| 4/22/2015 | 15:55:54 | 59.71 | 53.21 | 284 | 1.66 | 1.29 | 15.5 |
| 4/22/2015 | 15:55:58 | 60.04 | 53.54 | 48 | 1.66 | 1.29 | 2.6 |
| 4/22/2015 | 15:55:59 | 60.37 | 53.87 | 135 | 1.66 | 1.29 | 7.4 |
| 4/22/2015 | 15:56:00 | 60.70 | 54.20 | 334 | 1.66 | 1.29 | 18.3 |
| 4/22/2015 | 15:56:00 | 61.02 | 54.52 | 413 | 1.66 | 1.29 | 22.6 |
| 4/22/2015 | 15:56:02 | 61.35 | 54.85 | 383 | 1.66 | 1.29 | 21.0 |
| 4/22/2015 | 15:56:02 | 61.45 | 54.95 | 383 | 1.66 | 1.29 | 21.0 |

## G38 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:53:56

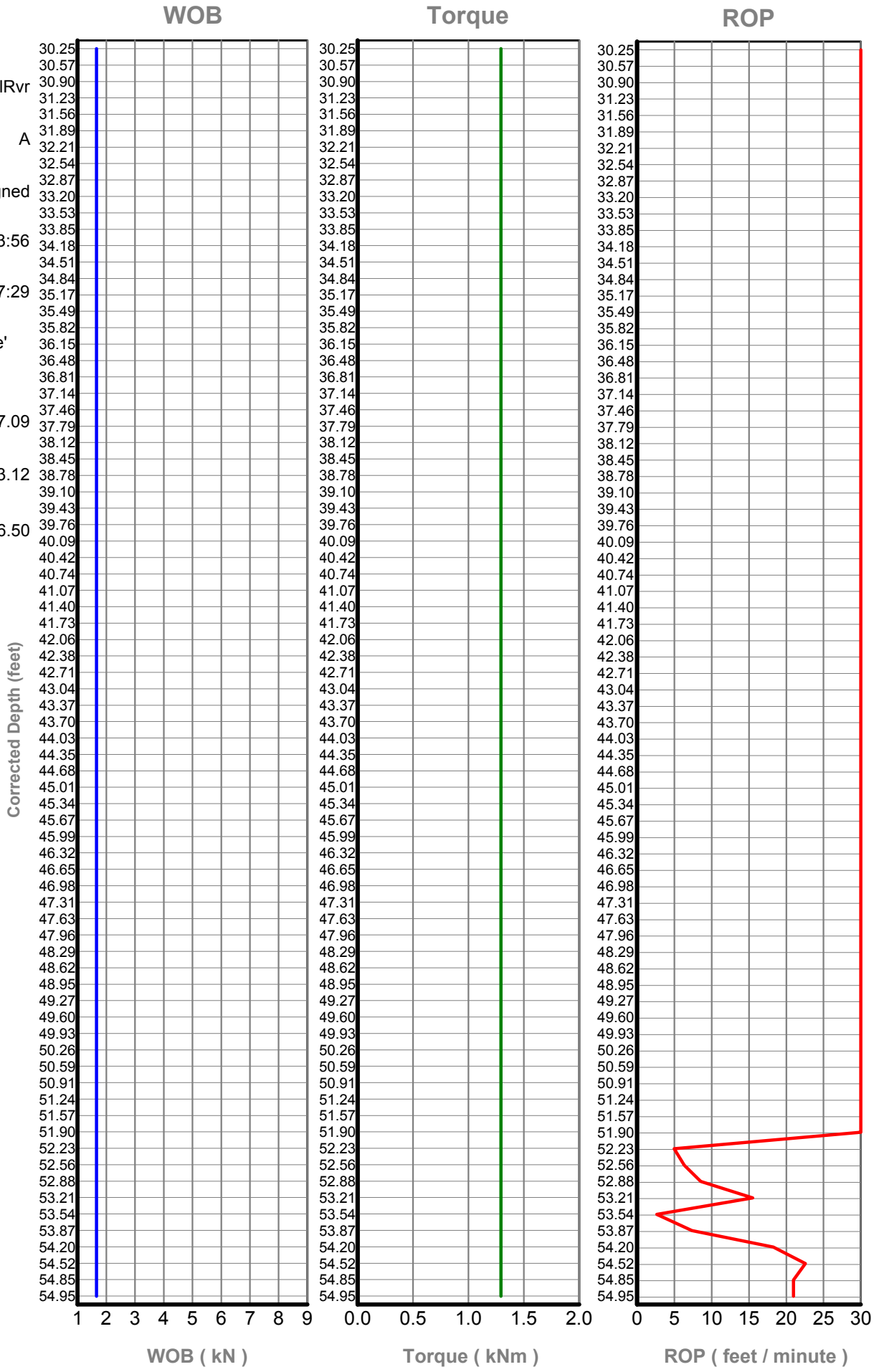
**End Date:**
4/22/2015 15:57:29

**Operator Note:**
'6.5 6.4 b Auto Complete'

**Northing:**
367,477.09

**Easting:**
252,483.12

**Tide (feet):**
6.50



## Hole: G39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 15:53:41 | 36.75 | 30.25 | 487 | 1.74 | 0.29 | 26.6 |
| 4/22/2015 15:53:41 | 37.07 | 30.57 | 487 | 1.71 | 0.29 | 26.6 |
| 4/22/2015 15:53:42 | 37.40 | 30.90 | 497 | 1.71 | 0.28 | 27.2 |
| 4/22/2015 15:53:43 | 37.73 | 31.23 | 494 | 1.70 | 0.29 | 27.0 |
| 4/22/2015 15:53:43 | 38.06 | 31.56 | 494 | 1.76 | 0.29 | 27.0 |
| 4/22/2015 15:53:44 | 38.39 | 31.89 | 491 | 1.64 | 0.29 | 26.8 |
| 4/22/2015 15:53:45 | 38.71 | 32.21 | 502 | 1.74 | 0.29 | 27.5 |
| 4/22/2015 15:53:45 | 39.04 | 32.54 | 518 | 1.75 | 0.29 | 28.3 |
| 4/22/2015 15:53:47 | 39.37 | 32.87 | 515 | 1.71 | 0.29 | 28.1 |
| 4/22/2015 15:53:47 | 39.70 | 33.20 | 503 | 1.69 | 0.29 | 27.5 |
| 4/22/2015 15:53:48 | 40.03 | 33.53 | 503 | 1.67 | 0.29 | 27.5 |
| 4/22/2015 15:53:48 | 40.35 | 33.85 | 511 | 1.72 | 0.29 | 27.9 |
| 4/22/2015 15:53:49 | 40.68 | 34.18 | 500 | 1.72 | 0.28 | 27.4 |
| 4/22/2015 15:53:50 | 41.01 | 34.51 | 505 | 1.73 | 0.29 | 27.6 |
| 4/22/2015 15:53:51 | 41.34 | 34.84 | 514 | 1.72 | 0.29 | 28.1 |
| 4/22/2015 15:53:51 | 41.67 | 35.17 | 506 | 1.73 | 0.29 | 27.7 |
| 4/22/2015 15:53:52 | 41.99 | 35.49 | 520 | 1.70 | 0.29 | 28.4 |
| 4/22/2015 15:53:53 | 42.32 | 35.82 | 509 | 1.74 | 0.29 | 27.8 |
| 4/22/2015 15:53:53 | 42.65 | 36.15 | 512 | 1.71 | 0.29 | 28.0 |
| 4/22/2015 15:53:54 | 42.98 | 36.48 | 518 | 1.72 | 0.29 | 28.3 |
| 4/22/2015 15:53:55 | 43.31 | 36.81 | 515 | 1.70 | 0.29 | 28.2 |
| 4/22/2015 15:53:56 | 43.64 | 37.14 | 509 | 1.70 | 0.29 | 27.8 |
| 4/22/2015 15:53:56 | 43.96 | 37.46 | 498 | 1.71 | 0.29 | 27.2 |
| 4/22/2015 15:53:57 | 44.29 | 37.79 | 503 | 1.71 | 0.28 | 27.5 |
| 4/22/2015 15:53:58 | 44.62 | 38.12 | 503 | 1.71 | 0.29 | 27.5 |
| 4/22/2015 15:53:58 | 44.95 | 38.45 | 503 | 1.71 | 0.28 | 27.5 |
| 4/22/2015 15:53:59 | 45.28 | 38.78 | 498 | 1.70 | 0.28 | 27.2 |
| 4/22/2015 15:54:00 | 45.60 | 39.10 | 512 | 1.71 | 0.28 | 28.0 |
| 4/22/2015 15:54:00 | 45.93 | 39.43 | 507 | 1.70 | 0.29 | 27.7 |
| 4/22/2015 15:54:01 | 46.26 | 39.76 | 510 | 1.72 | 0.28 | 27.9 |
| 4/22/2015 15:54:02 | 46.59 | 40.09 | 518 | 1.69 | 0.28 | 28.3 |
| 4/22/2015 15:54:02 | 46.92 | 40.42 | 518 | 1.72 | 0.28 | 28.3 |
| 4/22/2015 15:54:03 | 47.24 | 40.74 | 512 | 1.68 | 0.28 | 28.0 |
| 4/22/2015 15:54:04 | 47.57 | 41.07 | 512 | 1.70 | 0.28 | 28.0 |
| 4/22/2015 15:54:04 | 47.90 | 41.40 | 509 | 1.70 | 0.28 | 27.8 |
| 4/22/2015 15:54:05 | 48.23 | 41.73 | 509 | 1.75 | 0.28 | 27.8 |
| 4/22/2015 15:54:06 | 48.56 | 42.06 | 509 | 1.72 | 0.29 | 27.8 |
| 4/22/2015 15:54:06 | 48.88 | 42.38 | 509 | 1.70 | 0.29 | 27.8 |
| 4/22/2015 15:54:08 | 49.21 | 42.71 | 498 | 1.68 | 0.29 | 27.2 |
| 4/22/2015 15:54:08 | 49.54 | 43.04 | 498 | 1.69 | 0.29 | 27.2 |
| 4/22/2015 15:54:09 | 49.87 | 43.37 | 508 | 1.72 | 0.29 | 27.8 |
| 4/22/2015 15:54:10 | 50.20 | 43.70 | 499 | 1.71 | 0.29 | 27.3 |
| 4/22/2015 15:54:10 | 50.53 | 44.03 | 496 | 1.70 | 0.28 | 27.1 |
| 4/22/2015 15:54:11 | 50.85 | 44.35 | 496 | 1.72 | 0.29 | 27.1 |
| 4/22/2015 15:54:12 | 51.18 | 44.68 | 493 | 1.68 | 0.29 | 27.0 |
| 4/22/2015 15:54:12 | 51.51 | 45.01 | 512 | 1.68 | 0.28 | 28.0 |
| 4/22/2015 15:54:13 | 51.84 | 45.34 | 502 | 1.70 | 0.29 | 27.5 |
| 4/22/2015 15:54:14 | 52.17 | 45.67 | 511 | 1.73 | 0.28 | 27.9 |
| 4/22/2015 15:54:14 | 52.49 | 45.99 | 503 | 1.72 | 0.29 | 27.5 |
| 4/22/2015 15:54:15 | 52.82 | 46.32 | 499 | 1.72 | 0.29 | 27.3 |
| 4/22/2015 15:54:16 | 53.15 | 46.65 | 493 | 1.70 | 0.29 | 26.9 |
| 4/22/2015 15:54:16 | 53.48 | 46.98 | 502 | 1.72 | 0.29 | 27.4 |
| 4/22/2015 15:54:18 | 53.81 | 47.31 | 499 | 1.70 | 0.29 | 27.3 |
| 4/22/2015 15:54:18 | 54.13 | 47.63 | 504 | 1.71 | 0.29 | 27.6 |
| 4/22/2015 15:54:19 | 54.46 | 47.96 | 504 | 1.70 | 0.29 | 27.6 |
| 4/22/2015 15:54:20 | 54.79 | 48.29 | 503 | 1.72 | 0.29 | 27.5 |
| 4/22/2015 15:54:20 | 55.12 | 48.62 | 505 | 1.67 | 0.29 | 27.6 |
| 4/22/2015 15:54:21 | 55.45 | 48.95 | 447 | 1.68 | 0.29 | 24.4 |
| 4/22/2015 15:54:23 | 55.77 | 49.27 | 317 | 1.92 | 0.29 | 17.3 |
| 4/22/2015 15:54:44 | 56.10 | 49.60 | 54 | 1.69 | 0.98 | 3.0 |
| 4/22/2015 15:54:44 | 56.43 | 49.93 | 125 | 1.67 | 1.13 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 15:54:45 | 56.76 | 50.26 | 267 | 1.68 | 0.97 | 14.6 |
| 4/22/2015 | 15:54:46 | 57.09 | 50.59 | 362 | 1.70 | 0.98 | 19.8 |
| 4/22/2015 | 15:54:47 | 57.41 | 50.91 | 367 | 1.68 | 0.92 | 20.1 |
| 4/22/2015 | 15:54:49 | 57.74 | 51.24 | 357 | 1.70 | 0.92 | 19.5 |
| 4/22/2015 | 15:54:50 | 58.07 | 51.57 | 359 | 1.68 | 0.92 | 19.6 |
| 4/22/2015 | 15:54:51 | 58.40 | 51.90 | 356 | 1.68 | 0.96 | 19.5 |
| 4/22/2015 | 15:54:52 | 58.73 | 52.23 | 360 | 1.69 | 0.94 | 19.7 |
| 4/22/2015 | 15:54:53 | 59.06 | 52.56 | 355 | 1.68 | 0.94 | 19.4 |
| 4/22/2015 | 15:54:54 | 59.38 | 52.88 | 359 | 1.70 | 0.96 | 19.6 |
| 4/22/2015 | 15:54:55 | 59.71 | 53.21 | 359 | 1.66 | 0.97 | 19.6 |
| 4/22/2015 | 15:54:55 | 60.04 | 53.54 | 356 | 1.68 | 0.95 | 19.4 |
| 4/22/2015 | 15:54:56 | 60.37 | 53.87 | 353 | 1.68 | 0.93 | 19.3 |
| 4/22/2015 | 15:54:57 | 60.70 | 54.20 | 356 | 1.69 | 0.92 | 19.4 |
| 4/22/2015 | 15:54:58 | 61.02 | 54.52 | 357 | 1.70 | 0.94 | 19.5 |
| 4/22/2015 | 15:55:00 | 61.35 | 54.85 | 353 | 1.68 | 0.99 | 19.3 |
| 4/22/2015 | 15:55:00 | 61.53 | 55.03 | 344 | 1.69 | 1.00 | 18.8 |

## G39 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 15:51:26

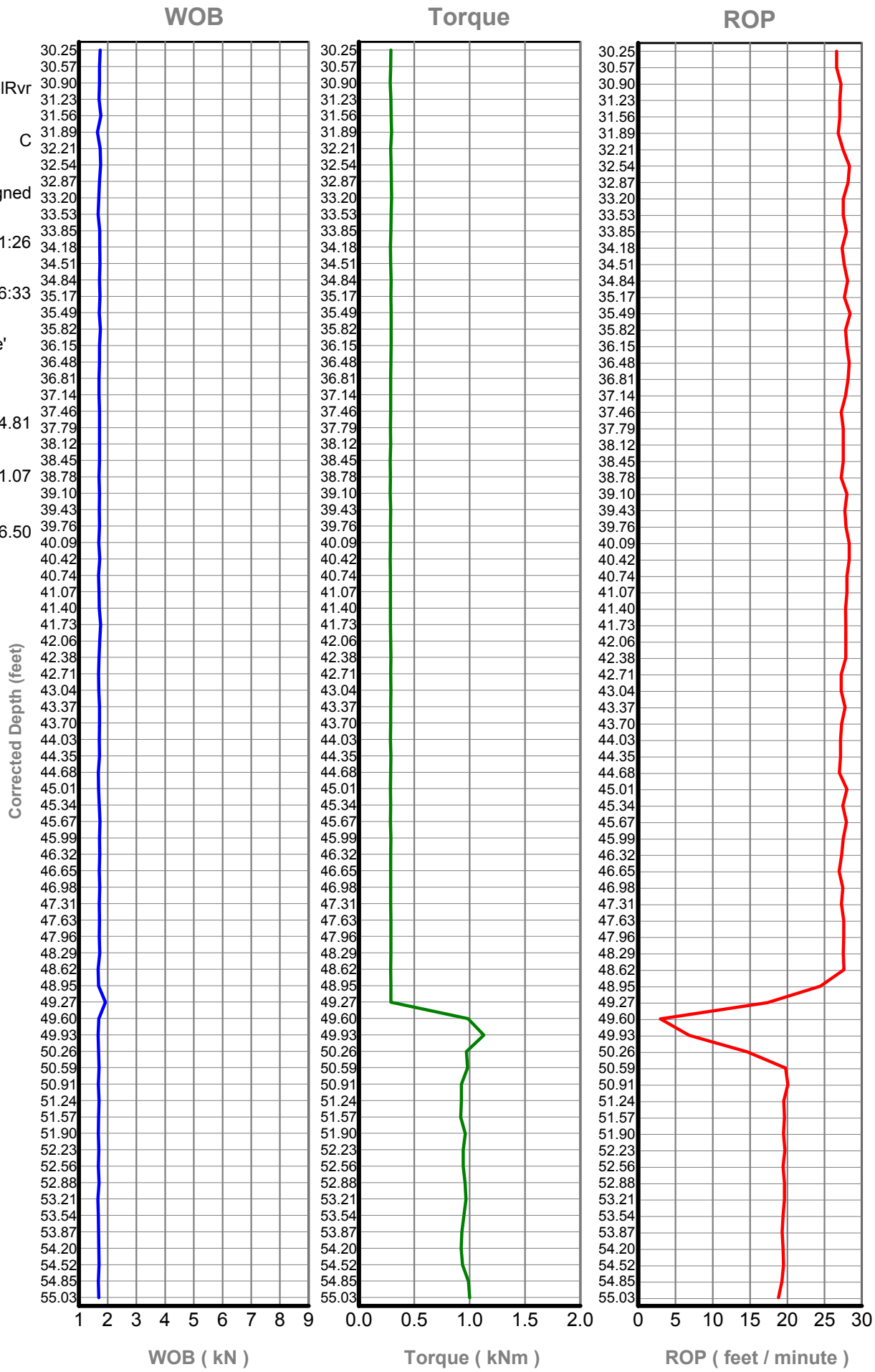
**End Date:**
4/22/2015 15:56:33

**Operator Note:**
'6.5 6.4C Auto Complete'

**Northing:**
367,524.81

**Easting:**
252,541.07

**Tide (feet):**
6.50



## Hole: G4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:39:07 | 32.15 | 30.05 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:39:08 | 32.48 | 30.38 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:39:08 | 32.81 | 30.71 | 878 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 21:39:08 | 33.14 | 31.04 | 865 | 1.66 | 1.29 | 47.3 |
| 4/22/2015 21:39:09 | 33.46 | 31.36 | 876 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:39:09 | 33.79 | 31.69 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:39:10 | 34.12 | 32.02 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:39:10 | 34.45 | 32.35 | 876 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:39:10 | 34.78 | 32.68 | 873 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 21:39:11 | 35.11 | 33.01 | 883 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 21:39:11 | 35.43 | 33.33 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:39:12 | 35.76 | 33.66 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:39:12 | 36.09 | 33.99 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 21:39:12 | 36.42 | 34.32 | 866 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:39:13 | 36.75 | 34.65 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:39:13 | 37.07 | 34.97 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:39:14 | 37.40 | 35.30 | 861 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 21:39:14 | 37.73 | 35.63 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 21:39:14 | 38.06 | 35.96 | 869 | 1.66 | 1.29 | 47.5 |
| 4/22/2015 21:39:15 | 38.39 | 36.29 | 873 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 21:39:15 | 38.71 | 36.61 | 873 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 21:39:15 | 39.04 | 36.94 | 878 | 1.66 | 1.29 | 48.0 |
| 4/22/2015 21:39:16 | 39.37 | 37.27 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:39:16 | 39.70 | 37.60 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 21:39:17 | 40.03 | 37.93 | 880 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:39:17 | 40.35 | 38.25 | 880 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:39:17 | 40.68 | 38.58 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:39:18 | 41.01 | 38.91 | 879 | 1.66 | 1.29 | 48.1 |
| 4/22/2015 21:39:18 | 41.34 | 39.24 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:39:19 | 41.67 | 39.57 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:39:19 | 41.99 | 39.89 | 885 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:39:20 | 42.32 | 40.22 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 21:39:20 | 42.65 | 40.55 | 825 | 1.66 | 1.29 | 45.1 |
| 4/22/2015 21:39:21 | 42.98 | 40.88 | 683 | 1.66 | 1.29 | 37.4 |
| 4/22/2015 21:39:22 | 43.31 | 41.21 | 598 | 1.66 | 1.29 | 32.7 |
| 4/22/2015 21:39:23 | 43.64 | 41.54 | 497 | 1.66 | 1.29 | 27.2 |
| 4/22/2015 21:39:23 | 43.96 | 41.86 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:24 | 44.29 | 42.19 | 483 | 1.66 | 1.29 | 26.4 |
| 4/22/2015 21:39:25 | 44.62 | 42.52 | 483 | 1.66 | 1.29 | 26.4 |
| 4/22/2015 21:39:26 | 44.95 | 42.85 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:26 | 45.28 | 43.18 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:27 | 45.60 | 43.50 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:28 | 45.93 | 43.83 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:28 | 46.26 | 44.16 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 21:39:30 | 46.59 | 44.49 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:31 | 46.92 | 44.82 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 21:39:31 | 47.24 | 45.14 | 481 | 1.66 | 1.29 | 26.3 |
| 4/22/2015 21:39:32 | 47.57 | 45.47 | 481 | 1.66 | 1.29 | 26.3 |
| 4/22/2015 21:39:33 | 47.90 | 45.80 | 475 | 1.66 | 1.29 | 26.0 |
| 4/22/2015 21:39:33 | 48.23 | 46.13 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:34 | 48.56 | 46.46 | 471 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 21:39:35 | 48.88 | 46.78 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:35 | 49.21 | 47.11 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:36 | 49.54 | 47.44 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:37 | 49.87 | 47.77 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:38 | 50.20 | 48.10 | 474 | 1.66 | 1.29 | 25.9 |
| 4/22/2015 21:39:38 | 50.53 | 48.43 | 471 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 21:39:39 | 50.85 | 48.75 | 471 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 21:39:44 | 51.18 | 49.08 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 21:39:45 | 51.51 | 49.41 | 150 | 1.66 | 1.29 | 8.2 |
| 4/22/2015 21:39:45 | 51.84 | 49.74 | 150 | 1.66 | 1.29 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 21:39:45 | 52.17 | 50.07 | 321 | 1.66 | 1.29 | 17.6 |
| 4/22/2015 | 21:39:46 | 52.49 | 50.39 | 493 | 1.66 | 1.29 | 26.9 |
| 4/22/2015 | 21:39:46 | 52.82 | 50.72 | 675 | 1.66 | 1.29 | 36.9 |
| 4/22/2015 | 21:39:47 | 53.15 | 51.05 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 | 21:39:47 | 53.48 | 51.38 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 | 21:39:47 | 53.81 | 51.71 | 860 | 1.66 | 1.29 | 47.0 |
| 4/22/2015 | 21:41:17 | 54.13 | 52.03 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 | 21:41:18 | 54.46 | 52.36 | 142 | 1.66 | 1.29 | 7.8 |
| 4/22/2015 | 21:41:20 | 54.79 | 52.69 | 163 | 1.66 | 1.29 | 8.9 |
| 4/22/2015 | 21:41:22 | 55.12 | 53.02 | 151 | 1.66 | 1.29 | 8.2 |
| 4/22/2015 | 21:41:24 | 55.45 | 53.35 | 192 | 1.66 | 1.29 | 10.5 |
| 4/22/2015 | 21:41:25 | 55.77 | 53.67 | 210 | 1.66 | 1.29 | 11.5 |
| 4/22/2015 | 21:41:26 | 56.10 | 54.00 | 222 | 1.66 | 1.29 | 12.1 |
| 4/22/2015 | 21:41:27 | 56.43 | 54.33 | 290 | 1.66 | 1.29 | 15.8 |
| 4/22/2015 | 21:41:27 | 56.76 | 54.66 | 375 | 1.66 | 1.29 | 20.5 |
| 4/22/2015 | 21:41:28 | 57.09 | 54.99 | 462 | 1.66 | 1.29 | 25.3 |
| 4/22/2015 | 21:41:29 | 57.41 | 55.31 | 593 | 1.66 | 1.29 | 32.4 |
| 4/22/2015 | 21:41:29 | 57.54 | 55.44 | 593 | 1.66 | 1.29 | 32.4 |

## G4 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:36:04

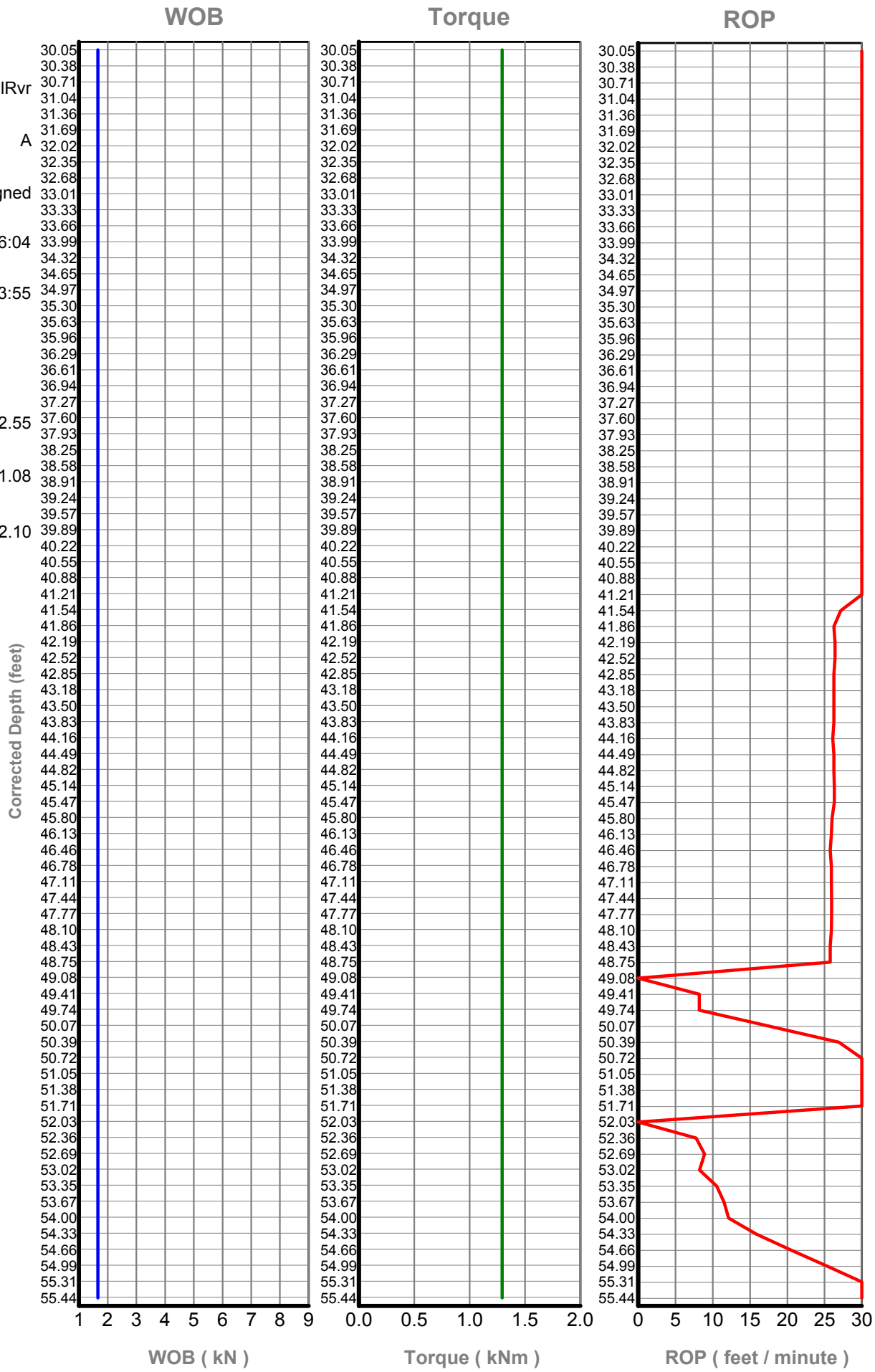
**End Date:**
4/22/2015 21:43:55

**Operator Note:**
'2.1 '6.2 2.2 b Auto Complete'

**Northing:**
367,472.55

**Easting:**
252,121.08

**Tide (feet):**
2.10



## Hole: G40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 7:56:29 | 33.79 | 30.19 | 740 | 0.41 | 0.35 | 40.5 |
| 4/23/2015 7:56:30 | 34.12 | 30.52 | 735 | 0.42 | 0.35 | 40.2 |
| 4/23/2015 7:56:30 | 34.45 | 30.85 | 740 | 0.43 | 0.35 | 40.5 |
| 4/23/2015 7:56:31 | 34.78 | 31.18 | 740 | 0.42 | 0.35 | 40.5 |
| 4/23/2015 7:56:31 | 35.11 | 31.51 | 743 | 0.42 | 0.35 | 40.6 |
| 4/23/2015 7:56:32 | 35.43 | 31.83 | 740 | 0.42 | 0.35 | 40.5 |
| 4/23/2015 7:56:32 | 35.76 | 32.16 | 740 | 0.42 | 0.35 | 40.5 |
| 4/23/2015 7:56:32 | 36.09 | 32.49 | 737 | 0.43 | 0.35 | 40.3 |
| 4/23/2015 7:56:33 | 36.42 | 32.82 | 734 | 0.42 | 0.34 | 40.2 |
| 4/23/2015 7:56:33 | 36.75 | 33.15 | 737 | 0.43 | 0.35 | 40.3 |
| 4/23/2015 7:56:34 | 37.07 | 33.47 | 727 | 0.42 | 0.35 | 39.8 |
| 4/23/2015 7:56:34 | 37.40 | 33.80 | 727 | 0.43 | 0.35 | 39.8 |
| 4/23/2015 7:56:35 | 37.73 | 34.13 | 740 | 0.41 | 0.34 | 40.5 |
| 4/23/2015 7:56:36 | 38.06 | 34.46 | 747 | 0.43 | 0.35 | 40.9 |
| 4/23/2015 7:56:36 | 38.39 | 34.79 | 746 | 0.43 | 0.34 | 40.8 |
| 4/23/2015 7:56:37 | 38.71 | 35.11 | 751 | 0.43 | 0.35 | 41.1 |
| 4/23/2015 7:56:37 | 39.04 | 35.44 | 764 | 0.43 | 0.34 | 41.8 |
| 4/23/2015 7:56:38 | 39.37 | 35.77 | 764 | 0.43 | 0.34 | 41.8 |
| 4/23/2015 7:56:38 | 39.70 | 36.10 | 757 | 0.43 | 0.35 | 41.4 |
| 4/23/2015 7:56:38 | 40.03 | 36.43 | 753 | 0.43 | 0.35 | 41.2 |
| 4/23/2015 7:56:39 | 40.35 | 36.75 | 760 | 0.43 | 0.35 | 41.6 |
| 4/23/2015 7:56:39 | 40.68 | 37.08 | 749 | 0.43 | 0.35 | 40.9 |
| 4/23/2015 7:56:40 | 41.01 | 37.41 | 746 | 0.43 | 0.35 | 40.8 |
| 4/23/2015 7:56:40 | 41.34 | 37.74 | 746 | 0.53 | 0.35 | 40.8 |
| 4/23/2015 7:56:41 | 41.67 | 38.07 | 746 | 0.51 | 0.35 | 40.8 |
| 4/23/2015 7:56:41 | 41.99 | 38.39 | 740 | 0.50 | 0.35 | 40.5 |
| 4/23/2015 7:56:42 | 42.32 | 38.72 | 740 | 0.52 | 0.35 | 40.5 |
| 4/23/2015 7:56:42 | 42.65 | 39.05 | 733 | 0.53 | 0.35 | 40.1 |
| 4/23/2015 7:56:43 | 42.98 | 39.38 | 734 | 0.54 | 0.35 | 40.2 |
| 4/23/2015 7:56:43 | 43.31 | 39.71 | 727 | 0.54 | 0.35 | 39.8 |
| 4/23/2015 7:56:44 | 43.64 | 40.04 | 732 | 0.52 | 0.35 | 40.0 |
| 4/23/2015 7:56:44 | 43.96 | 40.36 | 732 | 0.52 | 0.35 | 40.0 |
| 4/23/2015 7:56:44 | 44.29 | 40.69 | 732 | 0.52 | 0.35 | 40.0 |
| 4/23/2015 7:56:45 | 44.62 | 41.02 | 742 | 0.52 | 0.35 | 40.6 |
| 4/23/2015 7:56:45 | 44.95 | 41.35 | 738 | 0.43 | 0.35 | 40.3 |
| 4/23/2015 7:56:46 | 45.28 | 41.68 | 743 | 0.43 | 0.34 | 40.6 |
| 4/23/2015 7:56:47 | 45.60 | 42.00 | 734 | 0.43 | 0.34 | 40.2 |
| 4/23/2015 7:56:47 | 45.93 | 42.33 | 732 | 0.43 | 0.34 | 40.0 |
| 4/23/2015 7:56:48 | 46.26 | 42.66 | 732 | 0.43 | 0.35 | 40.0 |
| 4/23/2015 7:56:48 | 46.59 | 42.99 | 734 | 0.42 | 0.34 | 40.1 |
| 4/23/2015 7:56:49 | 46.92 | 43.32 | 733 | 0.42 | 0.34 | 40.1 |
| 4/23/2015 7:56:49 | 47.24 | 43.64 | 747 | 0.41 | 0.35 | 40.8 |
| 4/23/2015 7:56:50 | 47.57 | 43.97 | 747 | 0.41 | 0.35 | 40.8 |
| 4/23/2015 7:56:50 | 47.90 | 44.30 | 756 | 0.41 | 0.35 | 41.3 |
| 4/23/2015 7:56:51 | 48.23 | 44.63 | 756 | 0.41 | 0.35 | 41.3 |
| 4/23/2015 7:56:51 | 48.56 | 44.96 | 749 | 0.41 | 0.34 | 41.0 |
| 4/23/2015 7:56:51 | 48.88 | 45.28 | 754 | 0.42 | 0.34 | 41.2 |
| 4/23/2015 7:56:52 | 49.21 | 45.61 | 749 | 0.41 | 0.34 | 40.9 |
| 4/23/2015 7:56:52 | 49.54 | 45.94 | 752 | 0.41 | 0.35 | 41.1 |
| 4/23/2015 7:56:53 | 49.87 | 46.27 | 753 | 0.42 | 0.35 | 41.2 |
| 4/23/2015 7:56:53 | 50.20 | 46.60 | 760 | 0.42 | 0.34 | 41.6 |
| 4/23/2015 7:56:54 | 50.53 | 46.93 | 757 | 0.42 | 0.34 | 41.4 |
| 4/23/2015 7:56:54 | 50.85 | 47.25 | 755 | 0.43 | 0.34 | 41.3 |
| 4/23/2015 7:56:55 | 51.18 | 47.58 | 752 | 0.43 | 0.35 | 41.1 |
| 4/23/2015 7:56:55 | 51.51 | 47.91 | 752 | 0.37 | 0.35 | 41.1 |
| 4/23/2015 7:56:56 | 51.84 | 48.24 | 752 | 0.37 | 0.35 | 41.1 |
| 4/23/2015 7:56:56 | 52.17 | 48.57 | 746 | 0.43 | 0.35 | 40.8 |
| 4/23/2015 7:56:57 | 52.49 | 48.89 | 749 | 0.42 | 0.35 | 40.9 |
| 4/23/2015 7:56:57 | 52.82 | 49.22 | 730 | 0.41 | 0.35 | 39.9 |
| 4/23/2015 7:56:58 | 53.15 | 49.55 | 720 | 0.42 | 0.35 | 39.3 |
| 4/23/2015 7:56:58 | 53.48 | 49.88 | 700 | 0.42 | 0.35 | 38.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 7:56:59 | 53.81 | 50.21 | 662 | 0.41 | 0.36 | 36.2 |
| 4/23/2015 | 7:57:00 | 54.13 | 50.53 | 640 | 0.42 | 0.36 | 35.0 |
| 4/23/2015 | 7:57:00 | 54.46 | 50.86 | 640 | 0.41 | 0.36 | 35.0 |
| 4/23/2015 | 7:57:10 | 54.79 | 51.19 | 17 | 3.16 | 0.35 | 0.9 |
| 4/23/2015 | 7:57:11 | 55.12 | 51.52 | 156 | 3.14 | 0.36 | 8.6 |
| 4/23/2015 | 7:57:11 | 55.45 | 51.85 | 156 | 3.14 | 0.36 | 8.6 |
| 4/23/2015 | 7:57:12 | 55.77 | 52.17 | 288 | 3.13 | 0.35 | 15.8 |
| 4/23/2015 | 7:57:12 | 56.10 | 52.50 | 424 | 3.14 | 0.35 | 23.2 |
| 4/23/2015 | 7:57:13 | 56.43 | 52.83 | 549 | 3.10 | 0.35 | 30.0 |
| 4/23/2015 | 7:57:13 | 56.76 | 53.16 | 663 | 3.09 | 0.35 | 36.3 |
| 4/23/2015 | 7:57:14 | 57.09 | 53.49 | 663 | 3.07 | 0.35 | 36.3 |
| 4/23/2015 | 7:57:14 | 57.41 | 53.81 | 661 | 3.24 | 0.35 | 36.1 |
| 4/23/2015 | 7:57:15 | 57.74 | 54.14 | 644 | 3.54 | 0.36 | 35.2 |
| 4/23/2015 | 7:57:15 | 58.07 | 54.47 | 644 | 3.39 | 0.36 | 35.2 |
| 4/23/2015 | 7:57:16 | 58.40 | 54.80 | 637 | 3.16 | 0.36 | 34.9 |
| 4/23/2015 | 7:57:17 | 58.73 | 55.13 | 637 | 3.05 | 0.36 | 34.9 |
| 4/23/2015 | 7:57:17 | 58.87 | 55.27 | 632 | 3.04 | 0.38 | 34.6 |

## G40 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 7:53:10

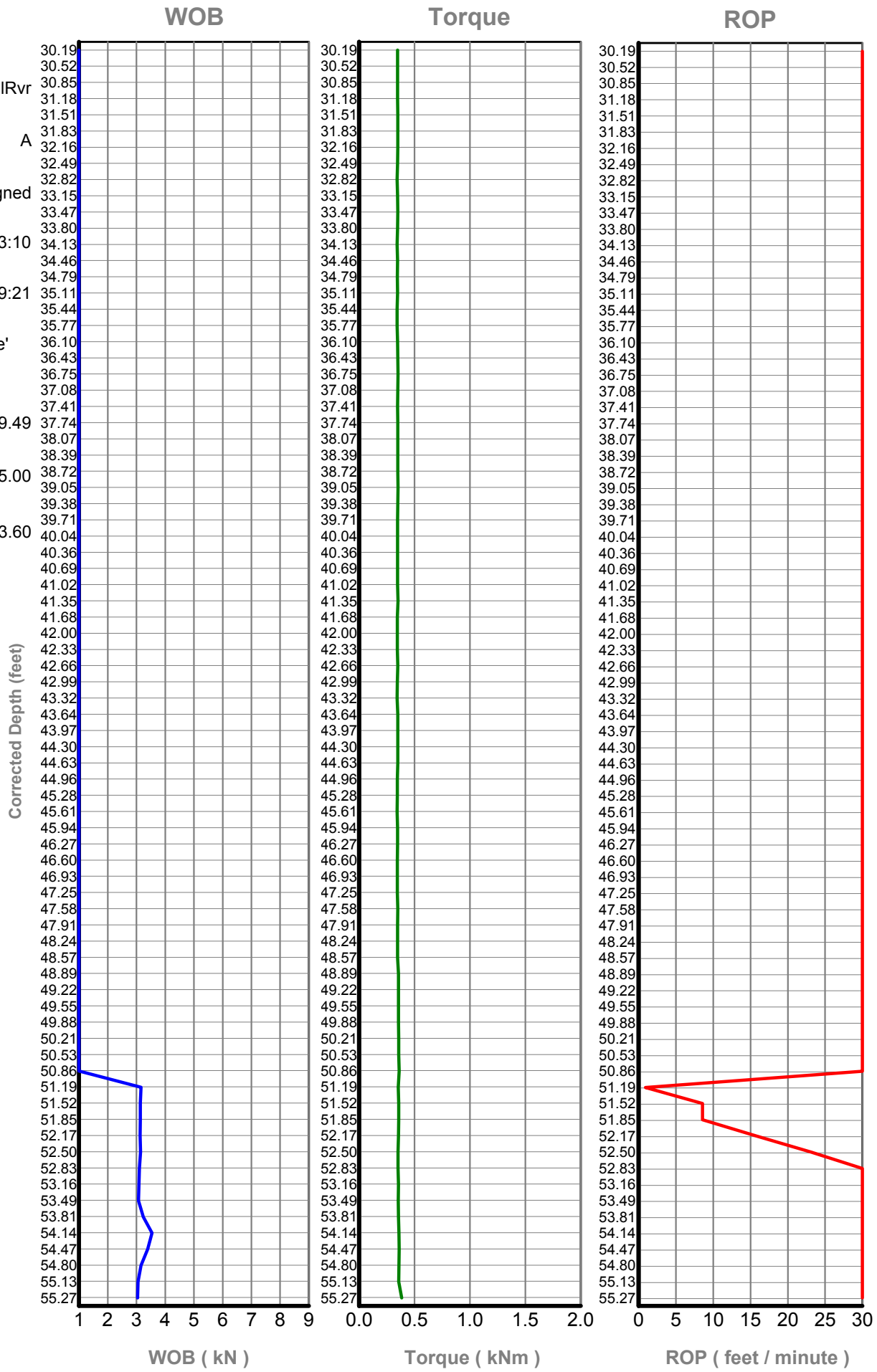
**End Date:**
4/23/2015 7:59:21

**Operator Note:**
'3.6 3.8 b Auto Complete'

**Northing:**
367,099.49

**Easting:**
252,145.00

**Tide (feet):**
3.60



## Hole: G41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:01:55 | 33.79 | 30.29 | 798 | 0.38 | 0.34 | 43.6 |
| 4/23/2015 8:01:55 | 34.12 | 30.62 | 798 | 0.45 | 0.34 | 43.6 |
| 4/23/2015 8:01:55 | 34.45 | 30.95 | 790 | 0.43 | 0.34 | 43.2 |
| 4/23/2015 8:01:56 | 34.78 | 31.28 | 781 | 0.38 | 0.34 | 42.7 |
| 4/23/2015 8:01:56 | 35.11 | 31.61 | 781 | 0.39 | 0.34 | 42.7 |
| 4/23/2015 8:01:57 | 35.43 | 31.93 | 788 | 0.37 | 0.34 | 43.1 |
| 4/23/2015 8:01:57 | 35.76 | 32.26 | 788 | 0.40 | 0.34 | 43.1 |
| 4/23/2015 8:01:58 | 36.09 | 32.59 | 788 | 0.40 | 0.34 | 43.1 |
| 4/23/2015 8:01:58 | 36.42 | 32.92 | 788 | 0.40 | 0.28 | 43.1 |
| 4/23/2015 8:01:59 | 36.75 | 33.25 | 790 | 0.39 | 0.34 | 43.2 |
| 4/23/2015 8:01:59 | 37.07 | 33.57 | 799 | 0.38 | 0.34 | 43.7 |
| 4/23/2015 8:02:00 | 37.40 | 33.90 | 795 | 0.39 | 0.34 | 43.5 |
| 4/23/2015 8:02:00 | 37.73 | 34.23 | 804 | 0.39 | 0.34 | 43.9 |
| 4/23/2015 8:02:01 | 38.06 | 34.56 | 804 | 0.39 | 0.34 | 43.9 |
| 4/23/2015 8:02:01 | 38.39 | 34.89 | 804 | 0.39 | 0.34 | 43.9 |
| 4/23/2015 8:02:01 | 38.71 | 35.21 | 810 | 0.38 | 0.34 | 44.3 |
| 4/23/2015 8:02:02 | 39.04 | 35.54 | 812 | 0.39 | 0.34 | 44.4 |
| 4/23/2015 8:02:02 | 39.37 | 35.87 | 818 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:03 | 39.70 | 36.20 | 815 | 0.39 | 0.34 | 44.6 |
| 4/23/2015 8:02:03 | 40.03 | 36.53 | 818 | 0.38 | 0.34 | 44.7 |
| 4/23/2015 8:02:04 | 40.35 | 36.85 | 818 | 0.38 | 0.34 | 44.7 |
| 4/23/2015 8:02:04 | 40.68 | 37.18 | 815 | 0.38 | 0.34 | 44.6 |
| 4/23/2015 8:02:04 | 41.01 | 37.51 | 812 | 0.38 | 0.34 | 44.4 |
| 4/23/2015 8:02:05 | 41.34 | 37.84 | 809 | 0.39 | 0.34 | 44.3 |
| 4/23/2015 8:02:05 | 41.67 | 38.17 | 806 | 0.39 | 0.34 | 44.1 |
| 4/23/2015 8:02:06 | 41.99 | 38.49 | 804 | 0.39 | 0.33 | 43.9 |
| 4/23/2015 8:02:06 | 42.32 | 38.82 | 804 | 0.39 | 0.34 | 44.0 |
| 4/23/2015 8:02:07 | 42.65 | 39.15 | 804 | 0.39 | 0.34 | 44.0 |
| 4/23/2015 8:02:07 | 42.98 | 39.48 | 809 | 0.39 | 0.34 | 44.3 |
| 4/23/2015 8:02:07 | 43.31 | 39.81 | 809 | 0.39 | 0.34 | 44.3 |
| 4/23/2015 8:02:08 | 43.64 | 40.14 | 810 | 0.39 | 0.34 | 44.3 |
| 4/23/2015 8:02:09 | 43.96 | 40.46 | 818 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:09 | 44.29 | 40.79 | 818 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:10 | 44.62 | 41.12 | 818 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:10 | 44.95 | 41.45 | 821 | 0.39 | 0.34 | 44.9 |
| 4/23/2015 8:02:10 | 45.28 | 41.78 | 818 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:11 | 45.60 | 42.10 | 820 | 0.39 | 0.33 | 44.9 |
| 4/23/2015 8:02:11 | 45.93 | 42.43 | 810 | 0.39 | 0.33 | 44.3 |
| 4/23/2015 8:02:12 | 46.26 | 42.76 | 815 | 0.39 | 0.33 | 44.5 |
| 4/23/2015 8:02:12 | 46.59 | 43.09 | 815 | 0.39 | 0.33 | 44.5 |
| 4/23/2015 8:02:12 | 46.92 | 43.42 | 802 | 0.39 | 0.34 | 43.9 |
| 4/23/2015 8:02:13 | 47.24 | 43.74 | 813 | 0.39 | 0.34 | 44.4 |
| 4/23/2015 8:02:13 | 47.57 | 44.07 | 813 | 0.39 | 0.36 | 44.4 |
| 4/23/2015 8:02:14 | 47.90 | 44.40 | 816 | 0.39 | 0.34 | 44.6 |
| 4/23/2015 8:02:14 | 48.23 | 44.73 | 805 | 0.39 | 0.34 | 44.0 |
| 4/23/2015 8:02:15 | 48.56 | 45.06 | 817 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:15 | 48.88 | 45.38 | 817 | 0.39 | 0.34 | 44.7 |
| 4/23/2015 8:02:15 | 49.21 | 45.71 | 810 | 0.39 | 0.34 | 44.3 |
| 4/23/2015 8:02:16 | 49.54 | 46.04 | 812 | 0.39 | 0.34 | 44.4 |
| 4/23/2015 8:02:16 | 49.87 | 46.37 | 812 | 0.35 | 0.34 | 44.4 |
| 4/23/2015 8:02:17 | 50.20 | 46.70 | 818 | 0.38 | 0.34 | 44.7 |
| 4/23/2015 8:02:17 | 50.53 | 47.03 | 812 | 0.38 | 0.34 | 44.4 |
| 4/23/2015 8:02:18 | 50.85 | 47.35 | 812 | 0.38 | 0.34 | 44.4 |
| 4/23/2015 8:02:18 | 51.18 | 47.68 | 809 | 0.38 | 0.34 | 44.3 |
| 4/23/2015 8:02:18 | 51.51 | 48.01 | 802 | 0.39 | 0.34 | 43.8 |
| 4/23/2015 8:02:19 | 51.84 | 48.34 | 806 | 0.38 | 0.35 | 44.1 |
| 4/23/2015 8:02:33 | 52.17 | 48.67 | 32 | 3.49 | 0.40 | 1.8 |
| 4/23/2015 8:02:41 | 52.49 | 48.99 | 49 | 3.91 | 0.40 | 2.7 |
| 4/23/2015 8:02:47 | 52.82 | 49.32 | 48 | 3.62 | 0.40 | 2.6 |
| 4/23/2015 8:02:55 | 53.15 | 49.65 | 49 | 3.58 | 0.40 | 2.7 |
| 4/23/2015 8:03:02 | 53.47 | 49.97 | 52 | 3.55 | 0.41 | 2.8 |

## G41 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:00:05

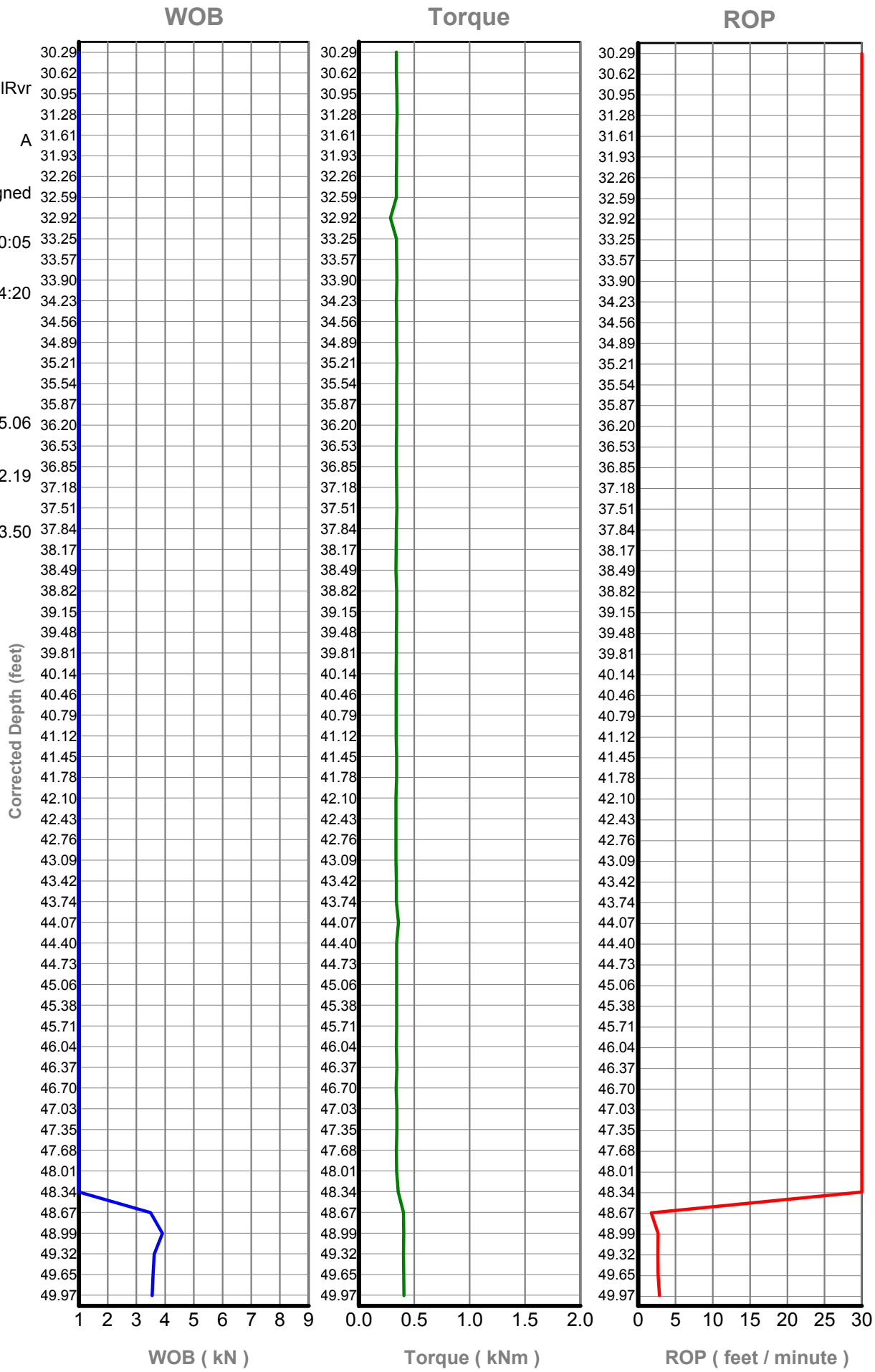
**End Date:**
4/23/2015 8:04:20

**Operator Note:**
'3.5 3.8 b Rock'

**Northing:**
367,135.06

**Easting:**
252,192.19

**Tide (feet):**
3.50



## Hole: G42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 7:57:38 | 33.79 | 30.19 | 327 | 1.62 | 0.35 | 17.9 |
| 4/23/2015 7:57:39 | 34.12 | 30.52 | 324 | 1.63 | 0.35 | 17.7 |
| 4/23/2015 7:57:40 | 34.45 | 30.85 | 319 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:57:41 | 34.78 | 31.18 | 324 | 1.64 | 0.35 | 17.7 |
| 4/23/2015 7:57:42 | 35.11 | 31.51 | 327 | 1.62 | 0.35 | 17.9 |
| 4/23/2015 7:57:43 | 35.43 | 31.83 | 327 | 1.63 | 0.35 | 17.9 |
| 4/23/2015 7:57:44 | 35.76 | 32.16 | 325 | 1.62 | 0.35 | 17.8 |
| 4/23/2015 7:57:46 | 36.09 | 32.49 | 318 | 1.72 | 0.35 | 17.4 |
| 4/23/2015 7:57:47 | 36.42 | 32.82 | 312 | 1.72 | 0.35 | 17.1 |
| 4/23/2015 7:57:48 | 36.75 | 33.15 | 312 | 1.63 | 0.35 | 17.1 |
| 4/23/2015 7:57:49 | 37.07 | 33.47 | 315 | 1.63 | 0.35 | 17.2 |
| 4/23/2015 7:57:50 | 37.40 | 33.80 | 315 | 1.62 | 0.36 | 17.2 |
| 4/23/2015 7:57:51 | 37.73 | 34.13 | 318 | 1.64 | 0.35 | 17.4 |
| 4/23/2015 7:57:53 | 38.06 | 34.46 | 316 | 1.62 | 0.35 | 17.3 |
| 4/23/2015 7:57:54 | 38.39 | 34.79 | 321 | 1.63 | 0.35 | 17.5 |
| 4/23/2015 7:57:55 | 38.71 | 35.11 | 321 | 1.62 | 0.35 | 17.5 |
| 4/23/2015 7:57:56 | 39.04 | 35.44 | 321 | 1.64 | 0.34 | 17.5 |
| 4/23/2015 7:57:57 | 39.37 | 35.77 | 321 | 1.63 | 0.35 | 17.5 |
| 4/23/2015 7:57:58 | 39.70 | 36.10 | 321 | 1.62 | 0.35 | 17.5 |
| 4/23/2015 7:57:59 | 40.03 | 36.43 | 322 | 1.60 | 0.35 | 17.6 |
| 4/23/2015 7:58:00 | 40.35 | 36.75 | 321 | 1.63 | 0.35 | 17.5 |
| 4/23/2015 7:58:02 | 40.68 | 37.08 | 321 | 1.62 | 0.35 | 17.5 |
| 4/23/2015 7:58:03 | 41.01 | 37.41 | 324 | 1.63 | 0.35 | 17.7 |
| 4/23/2015 7:58:04 | 41.34 | 37.74 | 321 | 1.62 | 0.35 | 17.5 |
| 4/23/2015 7:58:05 | 41.67 | 38.07 | 321 | 1.60 | 0.34 | 17.5 |
| 4/23/2015 7:58:06 | 41.99 | 38.39 | 321 | 1.63 | 0.34 | 17.5 |
| 4/23/2015 7:58:07 | 42.32 | 38.72 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:08 | 42.65 | 39.05 | 321 | 1.63 | 0.34 | 17.5 |
| 4/23/2015 7:58:09 | 42.98 | 39.38 | 321 | 1.63 | 0.34 | 17.5 |
| 4/23/2015 7:58:10 | 43.31 | 39.71 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:11 | 43.64 | 40.04 | 319 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:58:13 | 43.96 | 40.36 | 321 | 1.63 | 0.33 | 17.5 |
| 4/23/2015 7:58:14 | 44.29 | 40.69 | 321 | 1.36 | 0.34 | 17.5 |
| 4/23/2015 7:58:15 | 44.62 | 41.02 | 318 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:58:16 | 44.95 | 41.35 | 316 | 1.62 | 0.34 | 17.3 |
| 4/23/2015 7:58:17 | 45.28 | 41.68 | 321 | 1.62 | 0.34 | 17.6 |
| 4/23/2015 7:58:18 | 45.60 | 42.00 | 326 | 1.62 | 0.34 | 17.8 |
| 4/23/2015 7:58:19 | 45.93 | 42.33 | 323 | 1.62 | 0.34 | 17.7 |
| 4/23/2015 7:58:20 | 46.26 | 42.66 | 321 | 1.62 | 0.35 | 17.5 |
| 4/23/2015 7:58:21 | 46.59 | 42.99 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:23 | 46.92 | 43.32 | 321 | 1.61 | 0.34 | 17.5 |
| 4/23/2015 7:58:24 | 47.24 | 43.64 | 323 | 1.62 | 0.34 | 17.7 |
| 4/23/2015 7:58:25 | 47.57 | 43.97 | 318 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:58:26 | 47.90 | 44.30 | 319 | 1.60 | 0.34 | 17.4 |
| 4/23/2015 7:58:27 | 48.23 | 44.63 | 324 | 1.62 | 0.34 | 17.7 |
| 4/23/2015 7:58:28 | 48.56 | 44.96 | 324 | 1.62 | 0.34 | 17.7 |
| 4/23/2015 7:58:29 | 48.88 | 45.28 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:30 | 49.21 | 45.61 | 316 | 1.62 | 0.34 | 17.3 |
| 4/23/2015 7:58:31 | 49.54 | 45.94 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:33 | 49.87 | 46.27 | 321 | 1.64 | 0.34 | 17.5 |
| 4/23/2015 7:58:34 | 50.20 | 46.60 | 318 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:58:35 | 50.53 | 46.93 | 321 | 1.61 | 0.34 | 17.5 |
| 4/23/2015 7:58:36 | 50.85 | 47.25 | 318 | 1.62 | 0.34 | 17.4 |
| 4/23/2015 7:58:37 | 51.18 | 47.58 | 321 | 1.62 | 0.34 | 17.5 |
| 4/23/2015 7:58:38 | 51.51 | 47.91 | 316 | 1.63 | 0.34 | 17.3 |
| 4/23/2015 7:58:59 | 51.84 | 48.24 | 48 | 1.62 | 1.12 | 2.7 |
| 4/23/2015 7:59:00 | 52.17 | 48.57 | 170 | 1.63 | 1.17 | 9.3 |
| 4/23/2015 7:59:01 | 52.49 | 48.89 | 295 | 1.62 | 1.19 | 16.1 |
| 4/23/2015 7:59:02 | 52.82 | 49.22 | 302 | 1.62 | 1.15 | 16.5 |
| 4/23/2015 7:59:03 | 53.15 | 49.55 | 304 | 1.63 | 1.11 | 16.6 |
| 4/23/2015 7:59:05 | 53.48 | 49.88 | 304 | 1.64 | 1.26 | 16.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 7:59:12 | 53.81 | 50.21 | 37 | 1.62 | 1.16 | 2.0 |
| 4/23/2015 | 7:59:17 | 54.13 | 50.53 | 72 | 1.68 | 1.17 | 3.9 |
| 4/23/2015 | 7:59:22 | 54.46 | 50.86 | 61 | 1.37 | 1.11 | 3.3 |
| 4/23/2015 | 7:59:27 | 54.79 | 51.19 | 75 | 1.64 | 1.15 | 4.1 |
| 4/23/2015 | 7:59:34 | 55.12 | 51.52 | 46 | 1.64 | 1.16 | 2.5 |
| 4/23/2015 | 7:59:42 | 55.45 | 51.85 | 49 | 1.62 | 1.21 | 2.7 |
| 4/23/2015 | 7:59:49 | 55.77 | 52.17 | 46 | 1.63 | 1.12 | 2.5 |
| 4/23/2015 | 7:59:58 | 56.10 | 52.50 | 37 | 1.64 | 1.11 | 2.1 |
| 4/23/2015 | 7:59:59 | 56.17 | 52.57 | 41 | 1.63 | 1.25 | 2.2 |

## G42 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 7:54:16

**End Date:**
4/23/2015 8:01:53

**Operator Note:**
'3.6 3.7 X Auto Complete'

**Northing:**
367,180.63

**Easting:**
252,251.65

**Tide (feet):**
3.60



## Hole: G43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:09:36 | 35.76 | 30.26 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 18:09:37 | 36.09 | 30.59 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 18:09:37 | 36.42 | 30.92 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 18:09:37 | 36.75 | 31.25 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:09:38 | 37.07 | 31.57 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:09:38 | 37.40 | 31.90 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:09:38 | 37.73 | 32.23 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 18:09:39 | 38.06 | 32.56 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 18:09:39 | 38.39 | 32.89 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 18:09:39 | 38.71 | 33.21 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:09:40 | 39.04 | 33.54 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:09:40 | 39.37 | 33.87 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:09:40 | 39.70 | 34.20 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 18:09:41 | 40.03 | 34.53 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 18:09:41 | 40.35 | 34.85 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 18:09:41 | 40.68 | 35.18 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 18:09:42 | 41.01 | 35.51 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 18:09:42 | 41.34 | 35.84 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 18:09:42 | 41.67 | 36.17 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:09:43 | 41.99 | 36.49 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:09:43 | 42.32 | 36.82 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:09:46 | 42.65 | 37.15 | 65 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 18:09:47 | 42.98 | 37.48 | 65 | 1.66 | 1.29 | 3.5 |
| 4/22/2015 18:09:47 | 43.31 | 37.81 | 262 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 18:09:47 | 43.64 | 38.14 | 459 | 1.66 | 1.29 | 25.1 |
| 4/22/2015 18:09:48 | 43.96 | 38.46 | 662 | 1.66 | 1.29 | 36.2 |
| 4/22/2015 18:09:48 | 44.29 | 38.79 | 662 | 1.66 | 1.29 | 36.2 |
| 4/22/2015 18:09:48 | 44.62 | 39.12 | 862 | 1.66 | 1.29 | 47.1 |
| 4/22/2015 18:09:49 | 44.95 | 39.45 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:09:49 | 45.28 | 39.78 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:09:49 | 45.60 | 40.10 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:09:50 | 45.93 | 40.43 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:09:50 | 46.26 | 40.76 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:09:50 | 46.59 | 41.09 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:09:51 | 46.92 | 41.42 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:51 | 47.24 | 41.74 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:51 | 47.57 | 42.07 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:09:52 | 47.90 | 42.40 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:52 | 48.23 | 42.73 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:52 | 48.56 | 43.06 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 18:09:53 | 48.88 | 43.38 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:09:53 | 49.21 | 43.71 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:09:53 | 49.54 | 44.04 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:54 | 49.87 | 44.37 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:09:54 | 50.20 | 44.70 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:09:55 | 50.53 | 45.03 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:09:55 | 50.85 | 45.35 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:09:56 | 51.18 | 45.68 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:56 | 51.51 | 46.01 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:56 | 51.84 | 46.34 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:09:57 | 52.17 | 46.67 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:57 | 52.49 | 46.99 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:09:57 | 52.82 | 47.32 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:09:58 | 53.15 | 47.65 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 18:09:58 | 53.48 | 47.98 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 18:09:58 | 53.81 | 48.31 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 18:09:59 | 54.13 | 48.63 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 18:09:59 | 54.46 | 48.96 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 18:09:59 | 54.79 | 49.29 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 18:10:00 | 55.12 | 49.62 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 18:10:00 | 55.45 | 49.95 | 992 | 1.66 | 1.29 | 54.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 18:10:00 | 55.77 | 50.27 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 | 18:10:01 | 56.10 | 50.60 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 | 18:10:01 | 56.43 | 50.93 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 | 18:10:02 | 56.76 | 51.26 | 930 | 1.66 | 1.29 | 50.8 |
| 4/22/2015 | 18:10:15 | 57.09 | 51.59 | 6 | 1.66 | 1.29 | 0.3 |
| 4/22/2015 | 18:10:17 | 57.41 | 51.91 | 190 | 1.66 | 1.29 | 10.4 |
| 4/22/2015 | 18:10:20 | 57.74 | 52.24 | 125 | 1.66 | 1.29 | 6.8 |
| 4/22/2015 | 18:10:23 | 58.07 | 52.57 | 87 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 18:10:51 | 58.40 | 52.90 | 11 | 1.66 | 1.29 | 0.6 |
| 4/22/2015 | 18:10:53 | 58.73 | 53.23 | 172 | 1.66 | 1.29 | 9.4 |
| 4/22/2015 | 18:10:57 | 59.06 | 53.56 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 18:10:58 | 59.38 | 53.88 | 207 | 1.66 | 1.29 | 11.3 |
| 4/22/2015 | 18:10:59 | 59.71 | 54.21 | 293 | 1.66 | 1.29 | 16.0 |
| 4/22/2015 | 18:11:01 | 60.04 | 54.54 | 210 | 1.66 | 1.29 | 11.5 |
| 4/22/2015 | 18:11:03 | 60.37 | 54.87 | 219 | 1.66 | 1.29 | 12.0 |
| 4/22/2015 | 18:11:05 | 60.70 | 55.20 | 142 | 1.66 | 1.29 | 7.8 |
| 4/22/2015 | 18:11:05 | 60.77 | 55.27 | 171 | 1.66 | 1.29 | 9.3 |

## G43 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:06:43

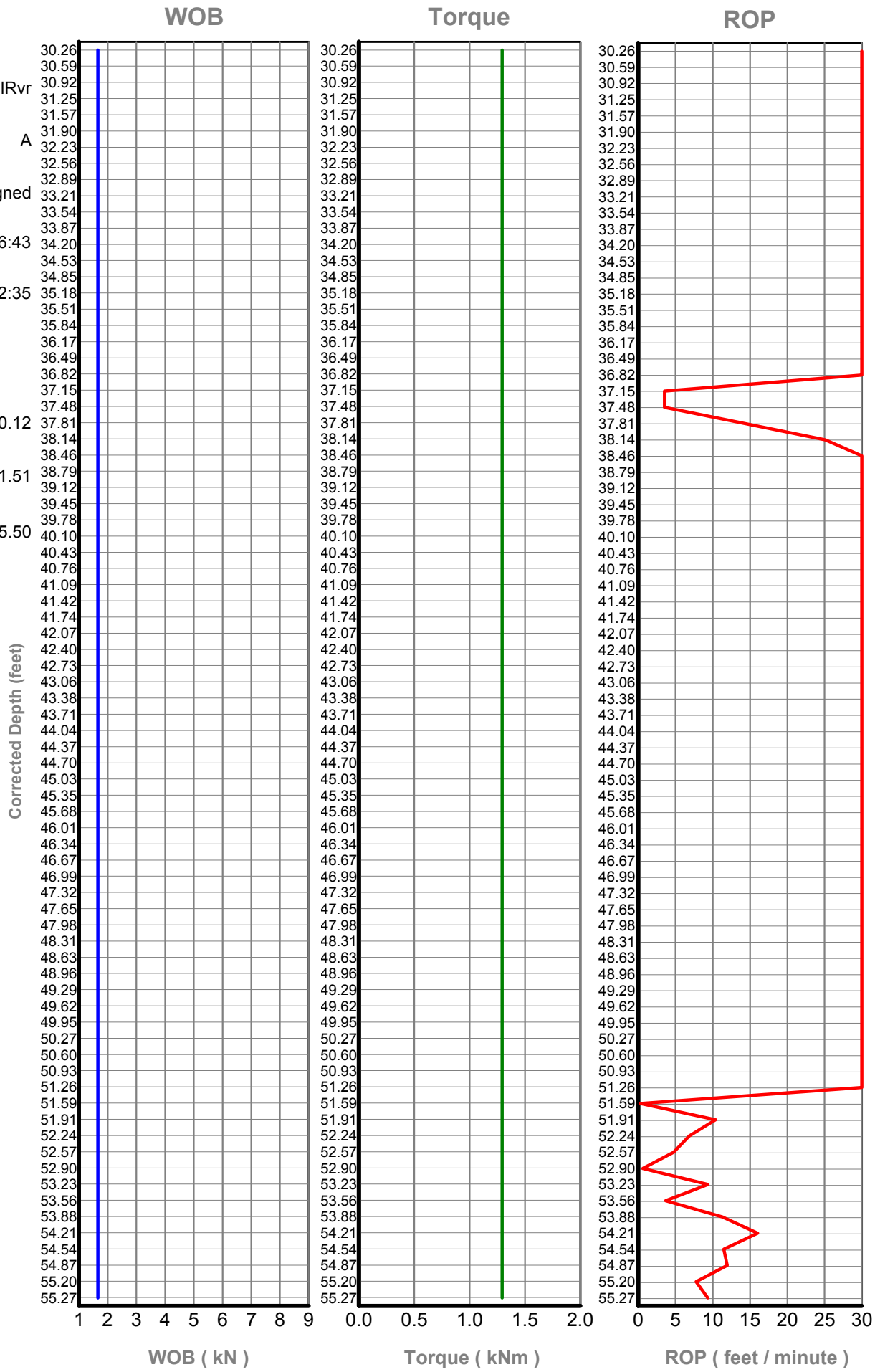
**End Date:**
4/22/2015 18:12:35

**Operator Note:**
'5.5 5.7 B Auto Complete'

**Northing:**
367,240.12

**Easting:**
252,311.51

**Tide (feet):**
5.50



## Hole: G44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:14:30 | 35.76 | 30.26 | 992 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 18:14:31 | 36.09 | 30.59 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 18:14:31 | 36.42 | 30.92 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 18:14:31 | 36.75 | 31.25 | 964 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 18:14:32 | 37.07 | 31.57 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 18:14:32 | 37.40 | 31.90 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 18:14:32 | 37.73 | 32.23 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 18:14:33 | 38.06 | 32.56 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 18:14:33 | 38.39 | 32.89 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 18:14:33 | 38.71 | 33.21 | 985 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 18:14:34 | 39.04 | 33.54 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 18:14:35 | 39.37 | 33.87 | 992 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 18:14:35 | 39.70 | 34.20 | 992 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 18:14:35 | 40.03 | 34.53 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 18:14:36 | 40.35 | 34.85 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 18:14:36 | 40.68 | 35.18 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 18:14:36 | 41.01 | 35.51 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 18:14:37 | 41.34 | 35.84 | 979 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 18:14:37 | 41.67 | 36.17 | 979 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 18:14:37 | 41.99 | 36.49 | 974 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 18:14:38 | 42.32 | 36.82 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 18:14:38 | 42.65 | 37.15 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 18:14:39 | 42.98 | 37.48 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 18:14:39 | 43.31 | 37.81 | 985 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 18:14:39 | 43.64 | 38.14 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 18:14:40 | 43.96 | 38.46 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 18:14:40 | 44.29 | 38.79 | 999 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 18:14:40 | 44.62 | 39.12 | 1,011 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:14:41 | 44.95 | 39.45 | 1,011 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:14:41 | 45.28 | 39.78 | 1,028 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 18:14:41 | 45.60 | 40.10 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 18:14:42 | 45.93 | 40.43 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 18:14:42 | 46.26 | 40.76 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:42 | 46.59 | 41.09 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 18:14:43 | 46.92 | 41.42 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 18:14:43 | 47.24 | 41.74 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 18:14:43 | 47.57 | 42.07 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:14:44 | 47.90 | 42.40 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:14:44 | 48.23 | 42.73 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:44 | 48.56 | 43.06 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:14:45 | 48.88 | 43.38 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 18:14:45 | 49.21 | 43.71 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 18:14:45 | 49.54 | 44.04 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:46 | 49.87 | 44.37 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:46 | 50.20 | 44.70 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 18:14:47 | 50.53 | 45.03 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:47 | 50.85 | 45.35 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:47 | 51.18 | 45.68 | 1,018 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 18:14:48 | 51.51 | 46.01 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:48 | 51.84 | 46.34 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 18:14:48 | 52.17 | 46.67 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 18:14:49 | 52.49 | 46.99 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:14:49 | 52.82 | 47.32 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 18:14:49 | 53.15 | 47.65 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:14:50 | 53.48 | 47.98 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:14:50 | 53.81 | 48.31 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:14:51 | 54.13 | 48.63 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 18:14:51 | 54.46 | 48.96 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 18:14:51 | 54.79 | 49.29 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:14:52 | 55.12 | 49.62 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 18:14:52 | 55.45 | 49.95 | 1,003 | 1.66 | 1.29 | 54.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 18:14:52 | 55.77 | 50.27 | 983 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 | 18:14:53 | 56.10 | 50.60 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 | 18:14:53 | 56.43 | 50.93 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 | 18:14:53 | 56.76 | 51.26 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 | 18:14:54 | 57.09 | 51.59 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 | 18:14:54 | 57.41 | 51.91 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 | 18:14:55 | 57.74 | 52.24 | 873 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 | 18:14:55 | 58.07 | 52.57 | 873 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 | 18:15:03 | 58.40 | 52.90 | 103 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 | 18:15:03 | 58.73 | 53.23 | 103 | 1.66 | 1.29 | 5.6 |
| 4/22/2015 | 18:15:03 | 59.06 | 53.56 | 270 | 1.66 | 1.29 | 14.8 |
| 4/22/2015 | 18:15:04 | 59.38 | 53.88 | 419 | 1.66 | 1.29 | 22.9 |
| 4/22/2015 | 18:15:05 | 59.71 | 54.21 | 537 | 1.66 | 1.29 | 29.3 |
| 4/22/2015 | 18:15:08 | 60.04 | 54.54 | 67 | 1.66 | 1.29 | 3.6 |
| 4/22/2015 | 18:15:12 | 60.37 | 54.87 | 71 | 1.66 | 1.29 | 3.9 |
| 4/22/2015 | 18:15:16 | 60.70 | 55.20 | 74 | 1.66 | 1.29 | 4.0 |

## G44 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:13:17

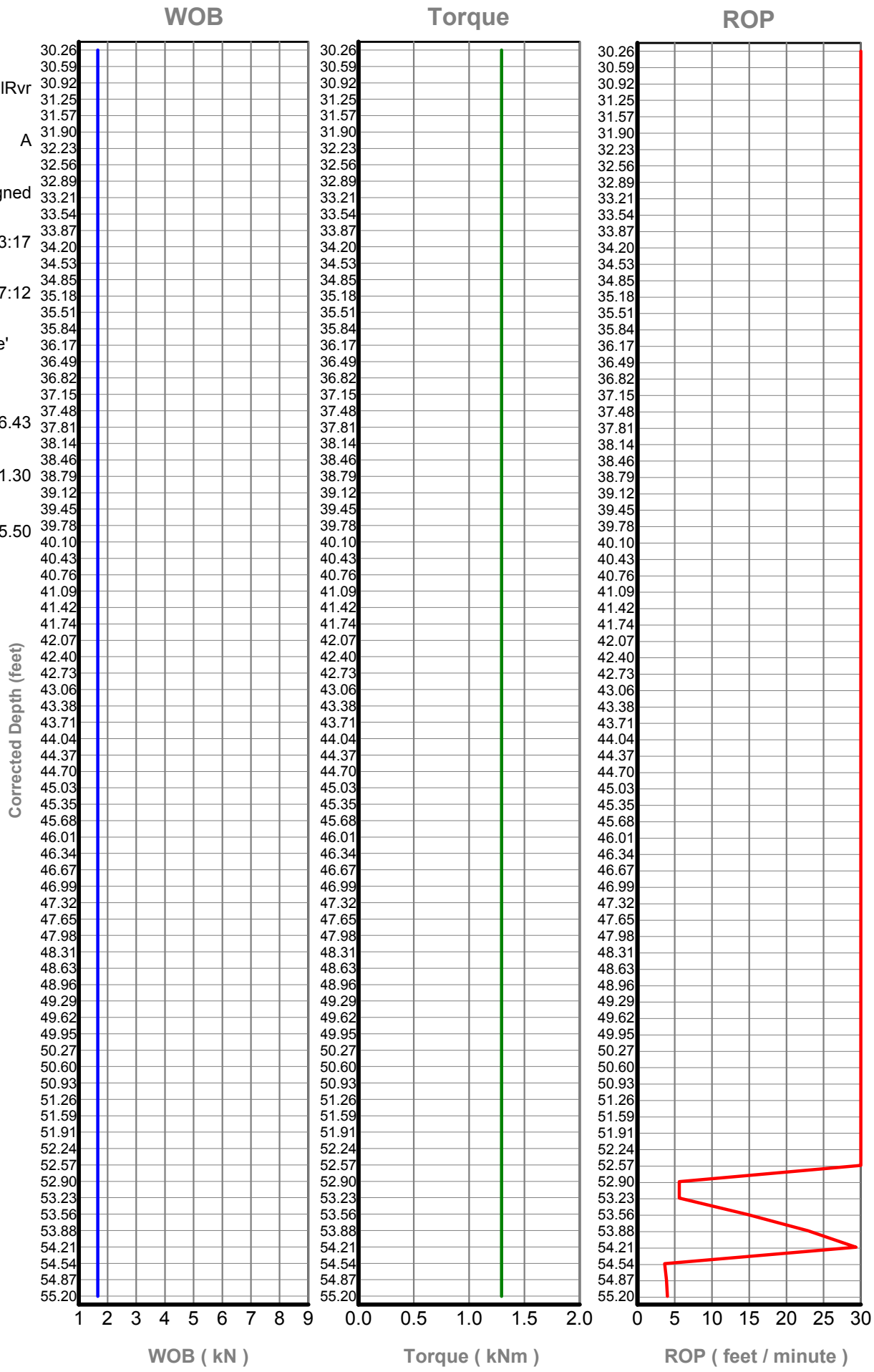
**End Date:**
4/22/2015 18:17:12

**Operator Note:**
'5.5 5.7 b Auto Complete'

**Northing:**
367,286.43

**Easting:**
252,371.30

**Tide (feet):**
5.50



## Hole: G45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 18:10:33 | 35.76 | 30.26 | 463 | 1.66 | 0.29 | 25.3 |
| 4/22/2015 18:10:34 | 36.09 | 30.59 | 463 | 1.67 | 0.29 | 25.3 |
| 4/22/2015 18:10:35 | 36.42 | 30.92 | 462 | 1.67 | 0.29 | 25.2 |
| 4/22/2015 18:10:35 | 36.75 | 31.25 | 466 | 1.67 | 0.29 | 25.5 |
| 4/22/2015 18:10:36 | 37.07 | 31.57 | 469 | 1.66 | 0.29 | 25.7 |
| 4/22/2015 18:10:37 | 37.40 | 31.90 | 457 | 1.72 | 0.29 | 25.0 |
| 4/22/2015 18:10:37 | 37.73 | 32.23 | 468 | 1.66 | 0.29 | 25.6 |
| 4/22/2015 18:10:38 | 38.06 | 32.56 | 464 | 1.70 | 0.30 | 25.4 |
| 4/22/2015 18:10:39 | 38.39 | 32.89 | 464 | 1.70 | 0.29 | 25.4 |
| 4/22/2015 18:10:40 | 38.71 | 33.21 | 459 | 1.69 | 0.29 | 25.1 |
| 4/22/2015 18:10:41 | 39.04 | 33.54 | 459 | 1.71 | 0.29 | 25.1 |
| 4/22/2015 18:10:42 | 39.37 | 33.87 | 460 | 1.70 | 0.29 | 25.2 |
| 4/22/2015 18:10:42 | 39.70 | 34.20 | 465 | 1.69 | 0.29 | 25.4 |
| 4/22/2015 18:10:43 | 40.03 | 34.53 | 462 | 1.96 | 0.29 | 25.3 |
| 4/22/2015 18:10:44 | 40.35 | 34.85 | 477 | 1.69 | 0.29 | 26.1 |
| 4/22/2015 18:10:45 | 40.68 | 35.18 | 471 | 1.68 | 0.30 | 25.8 |
| 4/22/2015 18:10:45 | 41.01 | 35.51 | 471 | 1.68 | 0.30 | 25.8 |
| 4/22/2015 18:10:46 | 41.34 | 35.84 | 474 | 1.68 | 0.29 | 25.9 |
| 4/22/2015 18:10:47 | 41.67 | 36.17 | 453 | 1.66 | 0.29 | 24.8 |
| 4/22/2015 18:10:47 | 41.99 | 36.49 | 453 | 1.66 | 0.29 | 24.8 |
| 4/22/2015 18:10:48 | 42.32 | 36.82 | 460 | 1.66 | 0.30 | 25.2 |
| 4/22/2015 18:10:49 | 42.65 | 37.15 | 460 | 1.66 | 0.30 | 25.2 |
| 4/22/2015 18:10:50 | 42.98 | 37.48 | 473 | 1.68 | 0.30 | 25.8 |
| 4/22/2015 18:10:51 | 43.31 | 37.81 | 468 | 1.71 | 0.29 | 25.6 |
| 4/22/2015 18:10:52 | 43.64 | 38.14 | 461 | 1.68 | 0.30 | 25.2 |
| 4/22/2015 18:10:52 | 43.96 | 38.46 | 464 | 1.67 | 0.30 | 25.4 |
| 4/22/2015 18:10:53 | 44.29 | 38.79 | 467 | 1.66 | 0.30 | 25.5 |
| 4/22/2015 18:10:54 | 44.62 | 39.12 | 474 | 1.68 | 0.30 | 25.9 |
| 4/22/2015 18:10:55 | 44.95 | 39.45 | 466 | 1.66 | 0.30 | 25.5 |
| 4/22/2015 18:10:55 | 45.28 | 39.78 | 463 | 1.70 | 0.30 | 25.3 |
| 4/22/2015 18:10:56 | 45.60 | 40.10 | 463 | 1.66 | 0.30 | 25.3 |
| 4/22/2015 18:10:57 | 45.93 | 40.43 | 472 | 1.67 | 0.30 | 25.8 |
| 4/22/2015 18:10:58 | 46.26 | 40.76 | 459 | 1.68 | 0.30 | 25.1 |
| 4/22/2015 18:10:58 | 46.59 | 41.09 | 469 | 1.67 | 0.30 | 25.7 |
| 4/22/2015 18:10:59 | 46.92 | 41.42 | 467 | 1.68 | 0.30 | 25.5 |
| 4/22/2015 18:11:00 | 47.24 | 41.74 | 467 | 1.67 | 0.30 | 25.5 |
| 4/22/2015 18:11:00 | 47.57 | 42.07 | 467 | 1.66 | 0.30 | 25.5 |
| 4/22/2015 18:11:01 | 47.90 | 42.40 | 467 | 1.68 | 0.30 | 25.5 |
| 4/22/2015 18:11:02 | 48.23 | 42.73 | 461 | 1.67 | 0.30 | 25.2 |
| 4/22/2015 18:11:03 | 48.56 | 43.06 | 471 | 1.68 | 0.30 | 25.7 |
| 4/22/2015 18:11:04 | 48.88 | 43.38 | 468 | 1.66 | 0.30 | 25.6 |
| 4/22/2015 18:11:05 | 49.21 | 43.71 | 463 | 1.66 | 0.30 | 25.3 |
| 4/22/2015 18:11:05 | 49.54 | 44.04 | 445 | 1.66 | 0.30 | 24.4 |
| 4/22/2015 18:11:06 | 49.87 | 44.37 | 455 | 1.68 | 0.30 | 24.9 |
| 4/22/2015 18:11:07 | 50.20 | 44.70 | 455 | 1.66 | 0.30 | 24.9 |
| 4/22/2015 18:11:08 | 50.53 | 45.03 | 442 | 1.68 | 0.30 | 24.1 |
| 4/22/2015 18:11:08 | 50.85 | 45.35 | 442 | 1.72 | 0.30 | 24.1 |
| 4/22/2015 18:11:09 | 51.18 | 45.68 | 457 | 1.70 | 0.30 | 25.0 |
| 4/22/2015 18:11:10 | 51.51 | 46.01 | 456 | 1.66 | 0.30 | 25.0 |
| 4/22/2015 18:11:11 | 51.84 | 46.34 | 459 | 1.67 | 0.30 | 25.1 |
| 4/22/2015 18:11:12 | 52.17 | 46.67 | 459 | 1.69 | 0.30 | 25.1 |
| 4/22/2015 18:11:13 | 52.49 | 46.99 | 459 | 1.71 | 0.30 | 25.1 |
| 4/22/2015 18:11:14 | 52.82 | 47.32 | 358 | 1.66 | 0.29 | 19.6 |
| 4/22/2015 18:11:15 | 53.15 | 47.65 | 316 | 1.66 | 0.29 | 17.3 |
| 4/22/2015 18:11:16 | 53.48 | 47.98 | 307 | 1.66 | 0.29 | 16.8 |
| 4/22/2015 18:11:37 | 53.81 | 48.31 | 62 | 1.69 | 1.00 | 3.4 |
| 4/22/2015 18:11:37 | 54.13 | 48.63 | 62 | 1.68 | 1.05 | 3.4 |
| 4/22/2015 18:11:38 | 54.46 | 48.96 | 225 | 1.68 | 1.08 | 12.3 |
| 4/22/2015 18:11:39 | 54.79 | 49.29 | 298 | 1.70 | 1.03 | 16.3 |
| 4/22/2015 18:11:40 | 55.12 | 49.62 | 366 | 1.68 | 1.03 | 20.0 |
| 4/22/2015 18:11:41 | 55.45 | 49.95 | 366 | 1.66 | 1.18 | 20.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 18:11:43 | 55.77 | 50.27 | 339 | 1.67 | 1.46 | 18.5 |
| 4/22/2015 | 18:11:47 | 56.10 | 50.60 | 9 | 1.68 | 1.00 | 0.5 |
| 4/22/2015 | 18:11:48 | 56.43 | 50.93 | 76 | 1.70 | 1.06 | 4.1 |
| 4/22/2015 | 18:11:49 | 56.76 | 51.26 | 232 | 1.68 | 0.95 | 12.7 |
| 4/22/2015 | 18:11:50 | 57.09 | 51.59 | 306 | 1.67 | 1.01 | 16.7 |
| 4/22/2015 | 18:11:51 | 57.41 | 51.91 | 382 | 1.66 | 0.98 | 20.9 |
| 4/22/2015 | 18:11:52 | 57.74 | 52.24 | 323 | 1.64 | 0.96 | 17.6 |
| 4/22/2015 | 18:11:53 | 58.07 | 52.57 | 311 | 1.67 | 0.94 | 17.0 |
| 4/22/2015 | 18:11:55 | 58.40 | 52.90 | 290 | 1.67 | 0.97 | 15.8 |
| 4/22/2015 | 18:11:56 | 58.73 | 53.23 | 299 | 1.68 | 0.94 | 16.3 |
| 4/22/2015 | 18:11:57 | 59.06 | 53.56 | 290 | 1.66 | 0.93 | 15.9 |
| 4/22/2015 | 18:11:58 | 59.38 | 53.88 | 293 | 1.67 | 0.94 | 16.0 |
| 4/22/2015 | 18:12:00 | 59.71 | 54.21 | 301 | 1.66 | 0.92 | 16.4 |
| 4/22/2015 | 18:12:01 | 60.04 | 54.54 | 300 | 1.66 | 0.92 | 16.4 |
| 4/22/2015 | 18:12:02 | 60.37 | 54.87 | 291 | 1.68 | 0.97 | 15.9 |
| 4/22/2015 | 18:12:06 | 60.70 | 55.20 | 177 | 1.64 | 0.99 | 9.7 |
| 4/22/2015 | 18:12:06 | 60.75 | 55.25 | 177 | 1.64 | 0.99 | 9.7 |

## G45 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 18:08:19

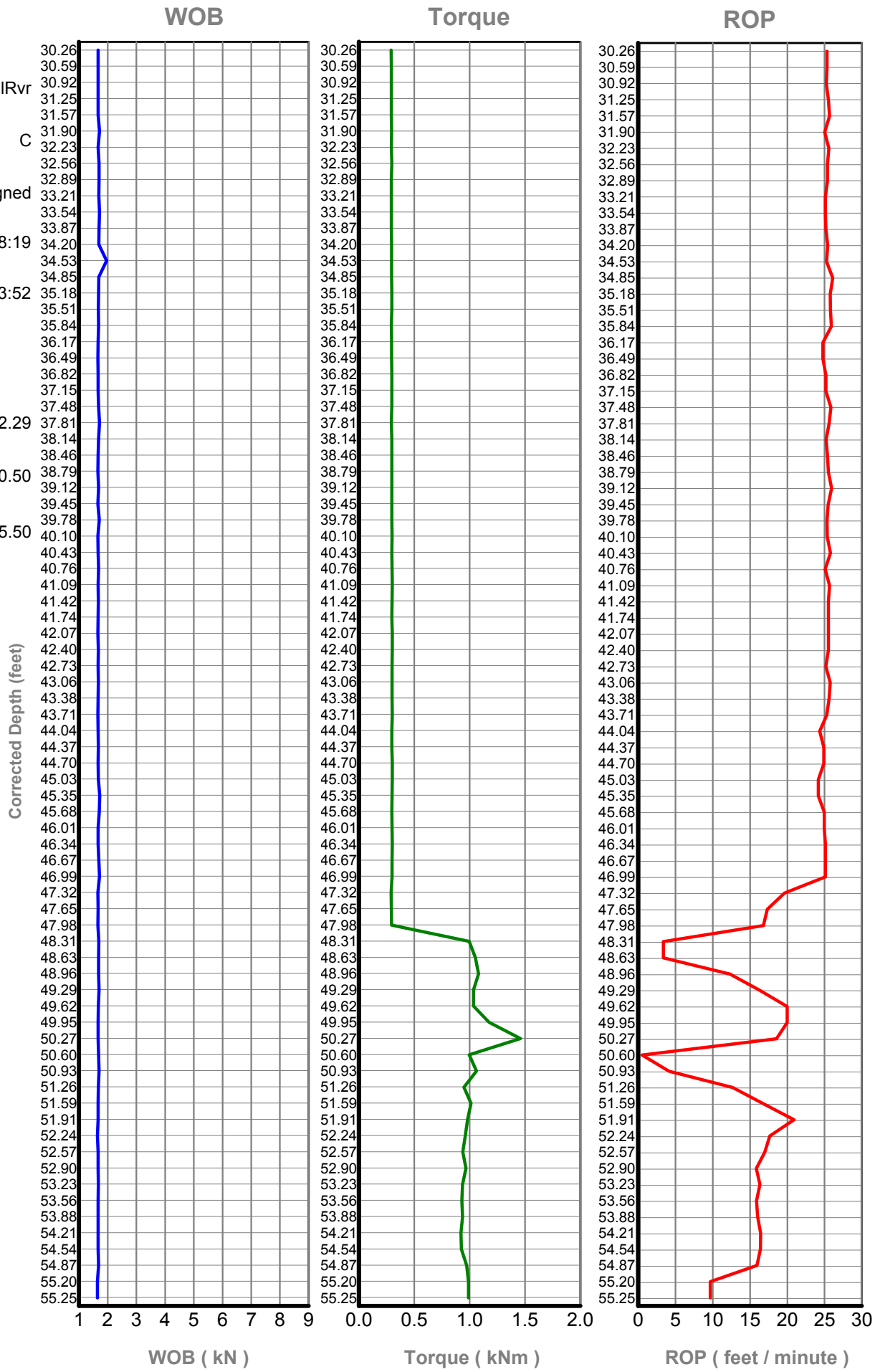
**End Date:**
4/22/2015 18:13:52

**Operator Note:**
'5.5 '0 5.7 C Auto Complete'

**Northing:**
367,332.29

**Easting:**
252,430.50

**Tide (feet):**
5.50



## Hole: G46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:05:43 | 36.75 | 30.25 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:05:43 | 37.07 | 30.57 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:05:43 | 37.40 | 30.90 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 16:05:44 | 37.73 | 31.23 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:05:44 | 38.06 | 31.56 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:05:44 | 38.39 | 31.89 | 1,037 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 16:05:45 | 38.71 | 32.21 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:05:46 | 39.04 | 32.54 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:05:46 | 39.37 | 32.87 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:46 | 39.70 | 33.20 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:47 | 40.03 | 33.53 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:47 | 40.35 | 33.85 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:47 | 40.68 | 34.18 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:48 | 41.01 | 34.51 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:48 | 41.34 | 34.84 | 1,036 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:05:48 | 41.67 | 35.17 | 1,041 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:49 | 41.99 | 35.49 | 1,041 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:49 | 42.32 | 35.82 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:05:49 | 42.65 | 36.15 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:50 | 42.98 | 36.48 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:50 | 43.31 | 36.81 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:50 | 43.64 | 37.14 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:51 | 43.96 | 37.46 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:51 | 44.29 | 37.79 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:51 | 44.62 | 38.12 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:52 | 44.95 | 38.45 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:52 | 45.28 | 38.78 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:52 | 45.60 | 39.10 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:53 | 45.93 | 39.43 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:53 | 46.26 | 39.76 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:05:53 | 46.59 | 40.09 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:54 | 46.92 | 40.42 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:54 | 47.24 | 40.74 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:54 | 47.57 | 41.07 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:55 | 47.90 | 41.40 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:05:55 | 48.23 | 41.73 | 1,036 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 16:05:55 | 48.56 | 42.06 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 16:05:56 | 48.88 | 42.38 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 16:05:56 | 49.21 | 42.71 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:57 | 49.54 | 43.04 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:57 | 49.87 | 43.37 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:57 | 50.20 | 43.70 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:58 | 50.53 | 44.03 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:05:58 | 50.85 | 44.35 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:05:58 | 51.18 | 44.68 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:05:59 | 51.51 | 45.01 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:59 | 51.84 | 45.34 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:05:59 | 52.17 | 45.67 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:06:00 | 52.49 | 45.99 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 16:06:00 | 52.82 | 46.32 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:06:01 | 53.15 | 46.65 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:06:01 | 53.48 | 46.98 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:06:01 | 53.81 | 47.31 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:06:02 | 54.13 | 47.63 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:06:02 | 54.46 | 47.96 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:06:02 | 54.79 | 48.29 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:06:03 | 55.12 | 48.62 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:06:03 | 55.45 | 48.95 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:06:03 | 55.77 | 49.27 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:06:04 | 56.10 | 49.60 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:06:04 | 56.43 | 49.93 | 1,006 | 1.66 | 1.29 | 55.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:06:12 | 56.76 | 50.26 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 16:06:12 | 57.09 | 50.59 | 215 | 1.66 | 1.29 | 11.7 |
| 4/22/2015 | 16:06:13 | 57.41 | 50.91 | 377 | 1.66 | 1.29 | 20.6 |
| 4/22/2015 | 16:06:14 | 57.74 | 51.24 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 | 16:06:14 | 58.07 | 51.57 | 551 | 1.66 | 1.29 | 30.1 |
| 4/22/2015 | 16:06:15 | 58.40 | 51.90 | 551 | 1.66 | 1.29 | 30.1 |
| 4/22/2015 | 16:06:15 | 58.73 | 52.23 | 598 | 1.66 | 1.29 | 32.7 |
| 4/22/2015 | 16:06:15 | 59.06 | 52.56 | 701 | 1.66 | 1.29 | 38.3 |
| 4/22/2015 | 16:06:16 | 59.38 | 52.88 | 789 | 1.66 | 1.29 | 43.2 |
| 4/22/2015 | 16:06:16 | 59.71 | 53.21 | 858 | 1.66 | 1.29 | 46.9 |
| 4/22/2015 | 16:06:17 | 60.04 | 53.54 | 858 | 1.66 | 1.29 | 46.9 |
| 4/22/2015 | 16:06:17 | 60.37 | 53.87 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 | 16:06:17 | 60.70 | 54.20 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 | 16:06:18 | 61.02 | 54.52 | 837 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 | 16:06:19 | 61.35 | 54.85 | 696 | 1.66 | 1.29 | 38.1 |
| 4/22/2015 | 16:06:20 | 61.44 | 54.94 | 554 | 1.66 | 1.29 | 30.3 |

## G46 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:03:33

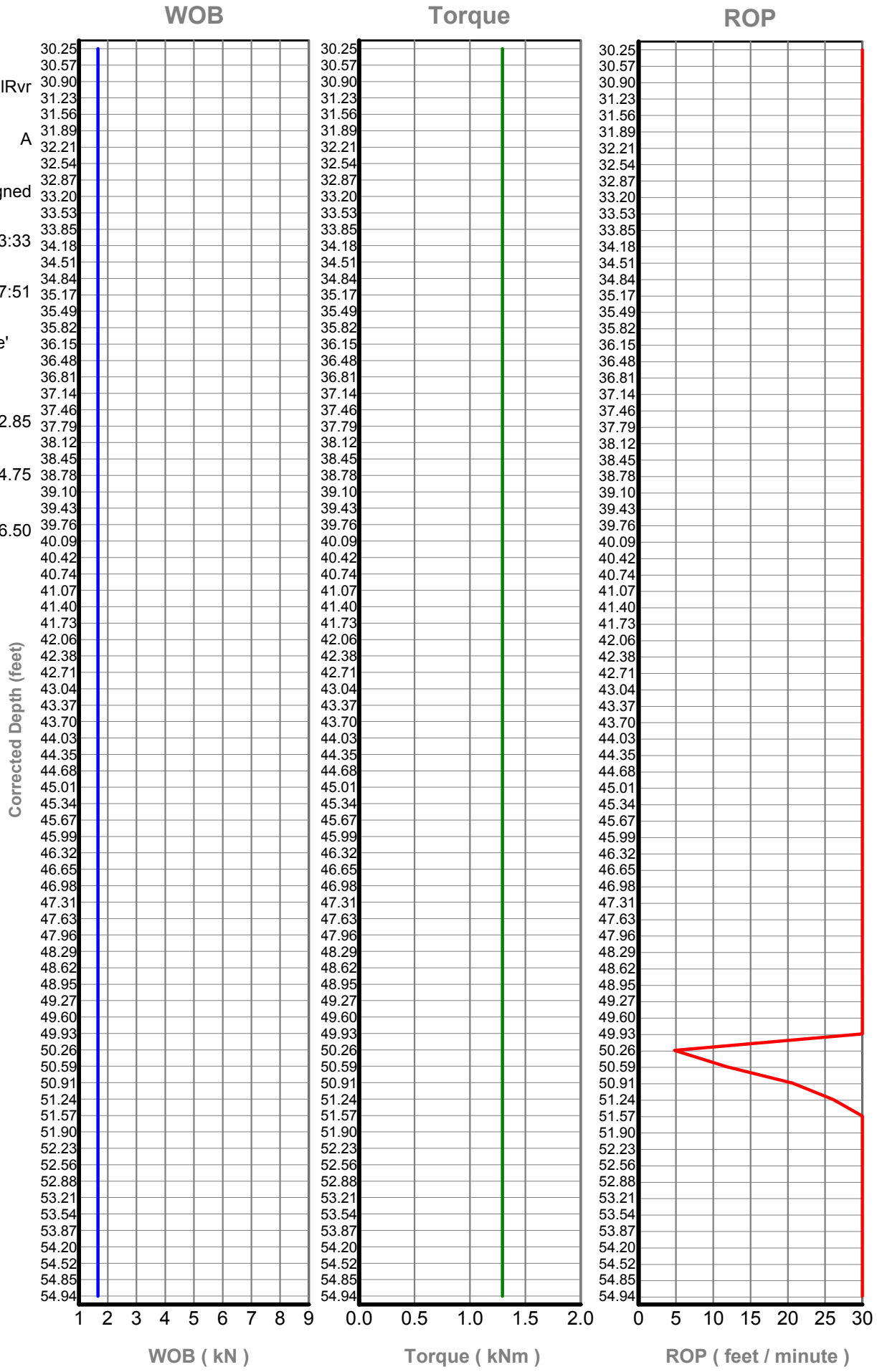
**End Date:**
4/22/2015 16:07:51

**Operator Note:**
'6.5 6.5 b Auto Complete'

**Northing:**
367,382.85

**Easting:**
252,494.75

**Tide (feet):**
6.50



## Hole: G47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:09:54 | 36.75 | 30.15 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:09:55 | 37.07 | 30.47 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 16:09:55 | 37.40 | 30.80 | 1,037 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 16:09:55 | 37.73 | 31.13 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:09:56 | 38.06 | 31.46 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:09:56 | 38.39 | 31.79 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:09:56 | 38.71 | 32.11 | 1,014 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:09:57 | 39.04 | 32.44 | 1,014 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:09:57 | 39.37 | 32.77 | 1,036 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:09:57 | 39.70 | 33.10 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:09:58 | 40.03 | 33.43 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:09:58 | 40.35 | 33.75 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:09:58 | 40.68 | 34.08 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:09:59 | 41.01 | 34.41 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:09:59 | 41.34 | 34.74 | 1,054 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:00 | 41.67 | 35.07 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:10:00 | 41.99 | 35.39 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:10:00 | 42.32 | 35.72 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:10:01 | 42.65 | 36.05 | 1,019 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:10:01 | 42.98 | 36.38 | 1,019 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:10:01 | 43.31 | 36.71 | 1,029 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 16:10:02 | 43.64 | 37.04 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 16:10:02 | 43.96 | 37.36 | 1,008 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 16:10:02 | 44.29 | 37.69 | 1,005 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:10:03 | 44.62 | 38.02 | 1,005 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:10:03 | 44.95 | 38.35 | 1,005 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:10:03 | 45.28 | 38.68 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:10:04 | 45.60 | 39.00 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:10:04 | 45.93 | 39.33 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:10:04 | 46.26 | 39.66 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:10:05 | 46.59 | 39.99 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:10:05 | 46.92 | 40.32 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:10:05 | 47.24 | 40.64 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 16:10:06 | 47.57 | 40.97 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:06 | 47.90 | 41.30 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:06 | 48.23 | 41.63 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:07 | 48.56 | 41.96 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:07 | 48.88 | 42.28 | 1,058 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:10:07 | 49.21 | 42.61 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:10:08 | 49.54 | 42.94 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:10:08 | 49.87 | 43.27 | 1,054 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:08 | 50.20 | 43.60 | 1,054 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:09 | 50.53 | 43.93 | 1,054 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:09 | 50.85 | 44.25 | 1,057 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:10:09 | 51.18 | 44.58 | 1,072 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 16:10:10 | 51.51 | 44.91 | 1,072 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 16:10:10 | 51.84 | 45.24 | 1,071 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 16:10:10 | 52.17 | 45.57 | 1,092 | 1.66 | 1.29 | 59.7 |
| 4/22/2015 16:10:11 | 52.49 | 45.89 | 1,092 | 1.66 | 1.29 | 59.7 |
| 4/22/2015 16:10:11 | 52.82 | 46.22 | 1,080 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 16:10:12 | 53.15 | 46.55 | 1,080 | 1.66 | 1.29 | 59.0 |
| 4/22/2015 16:10:12 | 53.48 | 46.88 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 16:10:12 | 53.81 | 47.21 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 16:10:13 | 54.13 | 47.53 | 1,064 | 1.66 | 1.29 | 58.2 |
| 4/22/2015 16:10:13 | 54.46 | 47.86 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 16:10:13 | 54.79 | 48.19 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:10:14 | 55.12 | 48.52 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:10:14 | 55.45 | 48.85 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:10:14 | 55.77 | 49.17 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:10:15 | 56.10 | 49.50 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:10:15 | 56.43 | 49.83 | 1,053 | 1.66 | 1.29 | 57.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:10:21 | 56.76 | 50.16 | 62 | 1.66 | 1.29 | 3.4 |
| 4/22/2015 | 16:10:22 | 57.09 | 50.49 | 62 | 1.66 | 1.29 | 3.4 |
| 4/22/2015 | 16:10:22 | 57.41 | 50.81 | 222 | 1.66 | 1.29 | 12.1 |
| 4/22/2015 | 16:10:23 | 57.74 | 51.14 | 392 | 1.66 | 1.29 | 21.5 |
| 4/22/2015 | 16:10:23 | 58.07 | 51.47 | 572 | 1.66 | 1.29 | 31.3 |
| 4/22/2015 | 16:10:24 | 58.40 | 51.80 | 741 | 1.66 | 1.29 | 40.5 |
| 4/22/2015 | 16:10:24 | 58.73 | 52.13 | 741 | 1.66 | 1.29 | 40.5 |
| 4/22/2015 | 16:10:24 | 59.06 | 52.46 | 856 | 1.66 | 1.29 | 46.8 |
| 4/22/2015 | 16:10:25 | 59.38 | 52.78 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 | 16:10:25 | 59.71 | 53.11 | 870 | 1.66 | 1.29 | 47.6 |
| 4/22/2015 | 16:10:26 | 60.04 | 53.44 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 | 16:10:26 | 60.37 | 53.77 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 | 16:10:26 | 60.70 | 54.10 | 858 | 1.66 | 1.29 | 46.9 |
| 4/22/2015 | 16:10:27 | 61.02 | 54.42 | 844 | 1.66 | 1.29 | 46.2 |
| 4/22/2015 | 16:10:27 | 61.35 | 54.75 | 835 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 | 16:10:28 | 61.68 | 55.08 | 820 | 1.66 | 1.29 | 44.8 |
| 4/22/2015 | 16:10:28 | 61.86 | 55.26 | 820 | 1.66 | 1.29 | 44.8 |

## G47 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:08:22

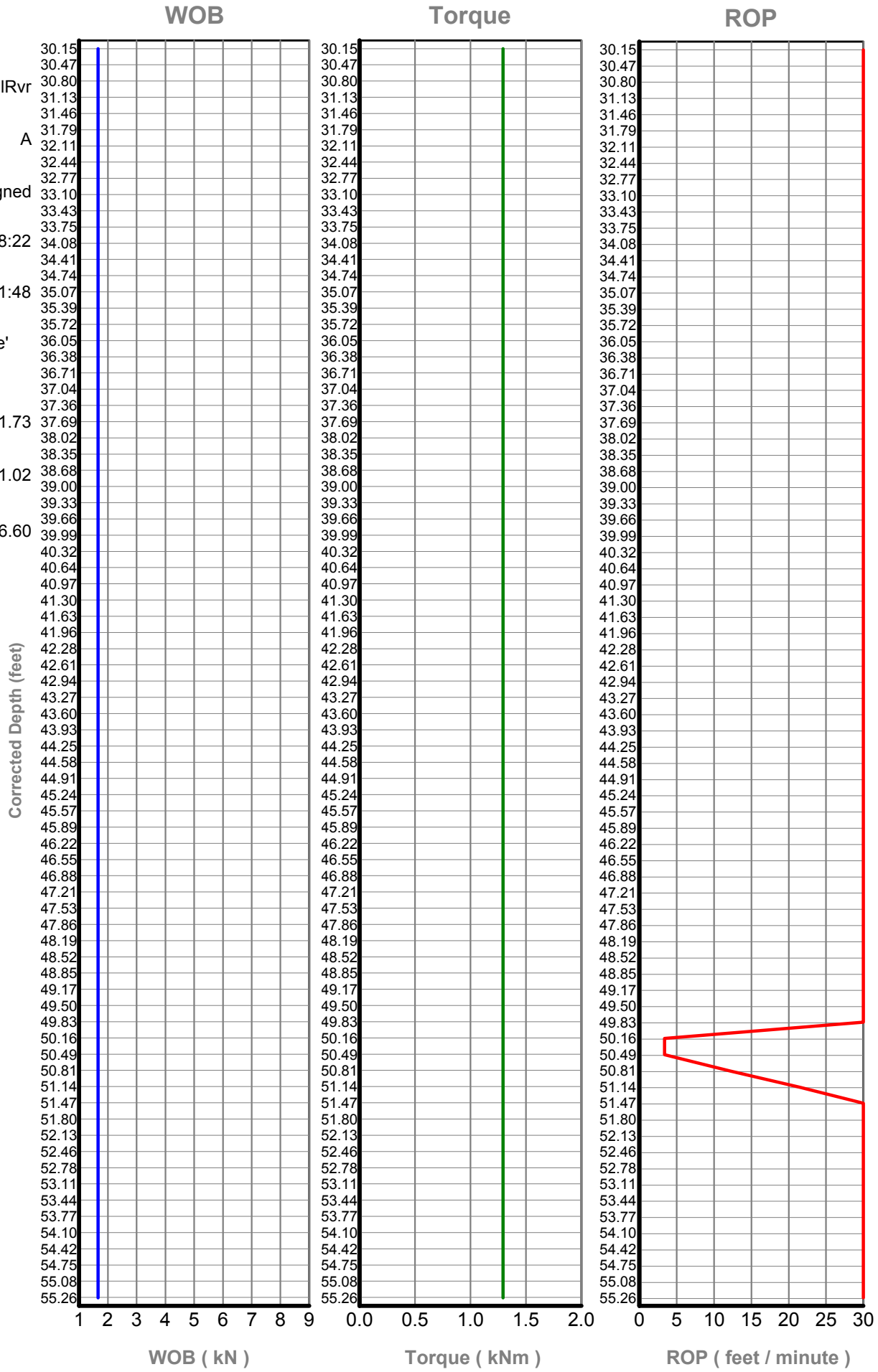
**End Date:**
4/22/2015 16:11:48

**Operator Note:**
'6.6 6.5 b Auto Complete'

**Northing:**
367,421.73

**Easting:**
252,541.02

**Tide (feet):**
6.60



## Hole: G48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:07:40 | 36.75 | 30.15 | 509 | 1.69 | 0.29 | 27.8 |
| 4/22/2015 16:07:41 | 37.07 | 30.47 | 512 | 1.70 | 0.29 | 28.0 |
| 4/22/2015 16:07:42 | 37.40 | 30.80 | 524 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 16:07:42 | 37.73 | 31.13 | 520 | 1.72 | 0.29 | 28.4 |
| 4/22/2015 16:07:43 | 38.06 | 31.46 | 520 | 1.73 | 0.29 | 28.4 |
| 4/22/2015 16:07:44 | 38.39 | 31.79 | 520 | 1.69 | 0.29 | 28.5 |
| 4/22/2015 16:07:44 | 38.71 | 32.11 | 520 | 1.70 | 0.29 | 28.5 |
| 4/22/2015 16:07:45 | 39.04 | 32.44 | 523 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 16:07:46 | 39.37 | 32.77 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 16:07:46 | 39.70 | 33.10 | 523 | 1.69 | 0.28 | 28.6 |
| 4/22/2015 16:07:47 | 40.03 | 33.43 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 16:07:48 | 40.35 | 33.75 | 523 | 1.75 | 0.28 | 28.6 |
| 4/22/2015 16:07:48 | 40.68 | 34.08 | 523 | 1.71 | 0.29 | 28.6 |
| 4/22/2015 16:07:49 | 41.01 | 34.41 | 523 | 1.70 | 0.28 | 28.6 |
| 4/22/2015 16:07:50 | 41.34 | 34.74 | 523 | 1.72 | 0.28 | 28.6 |
| 4/22/2015 16:07:51 | 41.67 | 35.07 | 520 | 1.70 | 0.29 | 28.5 |
| 4/22/2015 16:07:51 | 41.99 | 35.39 | 520 | 1.68 | 0.29 | 28.5 |
| 4/22/2015 16:07:52 | 42.32 | 35.72 | 515 | 1.70 | 0.29 | 28.1 |
| 4/22/2015 16:07:53 | 42.65 | 36.05 | 512 | 1.70 | 0.29 | 28.0 |
| 4/22/2015 16:07:53 | 42.98 | 36.38 | 515 | 1.72 | 0.29 | 28.2 |
| 4/22/2015 16:07:54 | 43.31 | 36.71 | 512 | 1.72 | 0.29 | 28.0 |
| 4/22/2015 16:07:55 | 43.64 | 37.04 | 501 | 1.72 | 0.29 | 27.4 |
| 4/22/2015 16:07:55 | 43.96 | 37.36 | 515 | 1.71 | 0.29 | 28.2 |
| 4/22/2015 16:07:56 | 44.29 | 37.69 | 512 | 1.69 | 0.29 | 28.0 |
| 4/22/2015 16:07:57 | 44.62 | 38.02 | 518 | 1.72 | 0.29 | 28.3 |
| 4/22/2015 16:07:57 | 44.95 | 38.35 | 523 | 1.73 | 0.29 | 28.6 |
| 4/22/2015 16:07:58 | 45.28 | 38.68 | 515 | 1.70 | 0.29 | 28.2 |
| 4/22/2015 16:07:59 | 45.60 | 39.00 | 517 | 1.72 | 0.29 | 28.3 |
| 4/22/2015 16:07:59 | 45.93 | 39.33 | 517 | 1.72 | 0.29 | 28.3 |
| 4/22/2015 16:08:00 | 46.26 | 39.66 | 517 | 1.68 | 0.29 | 28.3 |
| 4/22/2015 16:08:01 | 46.59 | 39.99 | 521 | 1.72 | 0.28 | 28.5 |
| 4/22/2015 16:08:02 | 46.92 | 40.32 | 518 | 1.72 | 0.28 | 28.3 |
| 4/22/2015 16:08:02 | 47.24 | 40.64 | 515 | 1.72 | 0.29 | 28.1 |
| 4/22/2015 16:08:03 | 47.57 | 40.97 | 512 | 1.71 | 0.28 | 28.0 |
| 4/22/2015 16:08:04 | 47.90 | 41.30 | 517 | 1.70 | 0.28 | 28.3 |
| 4/22/2015 16:08:04 | 48.23 | 41.63 | 517 | 1.71 | 0.28 | 28.3 |
| 4/22/2015 16:08:05 | 48.56 | 41.96 | 515 | 1.73 | 0.30 | 28.1 |
| 4/22/2015 16:08:06 | 48.88 | 42.28 | 517 | 1.70 | 0.28 | 28.3 |
| 4/22/2015 16:08:06 | 49.21 | 42.61 | 517 | 1.71 | 0.29 | 28.3 |
| 4/22/2015 16:08:07 | 49.54 | 42.94 | 515 | 1.72 | 0.28 | 28.1 |
| 4/22/2015 16:08:08 | 49.87 | 43.27 | 517 | 1.70 | 0.28 | 28.3 |
| 4/22/2015 16:08:08 | 50.20 | 43.60 | 515 | 1.71 | 0.28 | 28.1 |
| 4/22/2015 16:08:09 | 50.53 | 43.93 | 515 | 1.72 | 0.28 | 28.1 |
| 4/22/2015 16:08:10 | 50.85 | 44.25 | 515 | 1.69 | 0.28 | 28.1 |
| 4/22/2015 16:08:11 | 51.18 | 44.58 | 512 | 1.69 | 0.26 | 28.0 |
| 4/22/2015 16:08:12 | 51.51 | 44.91 | 515 | 1.71 | 0.28 | 28.1 |
| 4/22/2015 16:08:12 | 51.84 | 45.24 | 512 | 1.72 | 0.28 | 28.0 |
| 4/22/2015 16:08:13 | 52.17 | 45.57 | 509 | 1.72 | 0.28 | 27.8 |
| 4/22/2015 16:08:14 | 52.49 | 45.89 | 512 | 1.70 | 0.28 | 28.0 |
| 4/22/2015 16:08:14 | 52.82 | 46.22 | 509 | 1.72 | 0.28 | 27.8 |
| 4/22/2015 16:08:15 | 53.15 | 46.55 | 512 | 1.69 | 0.28 | 28.0 |
| 4/22/2015 16:08:16 | 53.48 | 46.88 | 512 | 1.70 | 0.28 | 28.0 |
| 4/22/2015 16:08:17 | 53.81 | 47.21 | 512 | 1.69 | 0.28 | 28.0 |
| 4/22/2015 16:08:18 | 54.13 | 47.53 | 512 | 1.69 | 0.28 | 28.0 |
| 4/22/2015 16:08:18 | 54.46 | 47.86 | 504 | 1.70 | 0.28 | 27.6 |
| 4/22/2015 16:08:18 | 54.79 | 48.19 | 491 | 1.70 | 0.28 | 26.8 |
| 4/22/2015 16:08:19 | 55.12 | 48.52 | 491 | 1.69 | 0.28 | 26.8 |
| 4/22/2015 16:08:38 | 55.45 | 48.85 | 0 | 1.68 | 1.06 | 0.0 |
| 4/22/2015 16:08:41 | 55.77 | 49.17 | 85 | 1.66 | 1.01 | 4.7 |
| 4/22/2015 16:08:42 | 56.10 | 49.50 | 188 | 1.68 | 1.03 | 10.3 |
| 4/22/2015 16:08:43 | 56.43 | 49.83 | 211 | 1.67 | 1.20 | 11.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:08:44 | 56.76 | 50.16 | 275 | 1.68 | 1.34 | 15.0 |
| 4/22/2015 | 16:08:45 | 57.09 | 50.49 | 316 | 1.70 | 1.03 | 17.3 |
| 4/22/2015 | 16:08:58 | 57.41 | 50.81 | 87 | 1.68 | 1.06 | 4.7 |
| 4/22/2015 | 16:08:59 | 57.74 | 51.14 | 162 | 1.69 | 0.97 | 8.8 |
| 4/22/2015 | 16:09:00 | 58.07 | 51.47 | 285 | 1.68 | 0.94 | 15.6 |
| 4/22/2015 | 16:09:01 | 58.40 | 51.80 | 351 | 1.68 | 0.93 | 19.2 |
| 4/22/2015 | 16:09:03 | 58.73 | 52.13 | 324 | 1.68 | 0.89 | 17.7 |
| 4/22/2015 | 16:09:04 | 59.06 | 52.46 | 332 | 1.68 | 0.86 | 18.1 |
| 4/22/2015 | 16:09:05 | 59.38 | 52.78 | 343 | 1.68 | 0.86 | 18.7 |
| 4/22/2015 | 16:09:06 | 59.71 | 53.11 | 356 | 1.68 | 0.87 | 19.4 |
| 4/22/2015 | 16:09:07 | 60.04 | 53.44 | 356 | 1.69 | 0.89 | 19.4 |
| 4/22/2015 | 16:09:08 | 60.37 | 53.77 | 350 | 1.68 | 0.94 | 19.1 |
| 4/22/2015 | 16:09:09 | 60.70 | 54.10 | 312 | 1.68 | 0.88 | 17.1 |
| 4/22/2015 | 16:09:10 | 61.02 | 54.42 | 298 | 1.68 | 0.88 | 16.3 |
| 4/22/2015 | 16:09:11 | 61.35 | 54.75 | 299 | 1.69 | 1.01 | 16.3 |
| 4/22/2015 | 16:09:13 | 61.55 | 54.95 | 236 | 1.45 | 1.11 | 12.9 |

## G48 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:05:36

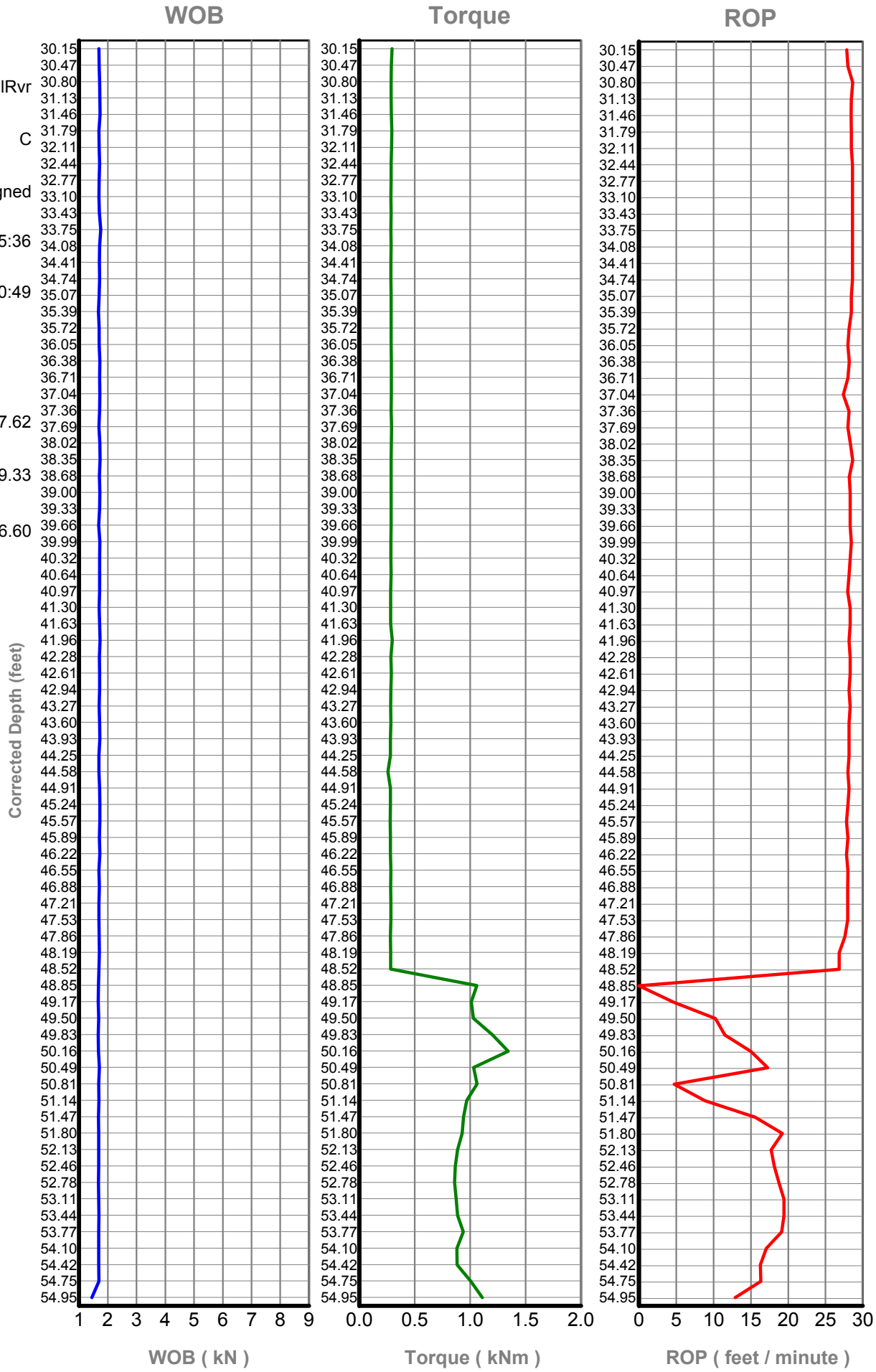
**End Date:**
4/22/2015 16:10:49

**Operator Note:**
'6.6 6.5 C Auto Complete'

**Northing:**
367,467.62

**Easting:**
252,599.33

**Tide (feet):**
6.60



## Hole: G49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:24:21 | 33.46 | 30.26 | 905 | 0.33 | 0.33 | 49.5 |
| 4/23/2015 8:24:21 | 33.79 | 30.59 | 905 | 0.33 | 0.33 | 49.5 |
| 4/23/2015 8:24:21 | 34.12 | 30.92 | 895 | 0.34 | 0.32 | 48.9 |
| 4/23/2015 8:24:22 | 34.45 | 31.25 | 903 | 0.33 | 0.33 | 49.4 |
| 4/23/2015 8:24:22 | 34.78 | 31.58 | 897 | 0.33 | 0.33 | 49.1 |
| 4/23/2015 8:24:23 | 35.11 | 31.91 | 897 | 0.32 | 0.33 | 49.1 |
| 4/23/2015 8:24:23 | 35.43 | 32.23 | 897 | 0.32 | 0.33 | 49.1 |
| 4/23/2015 8:24:23 | 35.76 | 32.56 | 892 | 0.34 | 0.33 | 48.8 |
| 4/23/2015 8:24:24 | 36.09 | 32.89 | 899 | 0.34 | 0.33 | 49.2 |
| 4/23/2015 8:24:25 | 36.42 | 33.22 | 896 | 0.33 | 0.33 | 49.0 |
| 4/23/2015 8:24:25 | 36.75 | 33.55 | 896 | 0.33 | 0.33 | 49.0 |
| 4/23/2015 8:24:25 | 37.07 | 33.87 | 871 | 0.34 | 0.33 | 47.6 |
| 4/23/2015 8:24:26 | 37.40 | 34.20 | 871 | 0.35 | 0.32 | 47.6 |
| 4/23/2015 8:24:26 | 37.73 | 34.53 | 890 | 0.35 | 0.33 | 48.7 |
| 4/23/2015 8:24:27 | 38.06 | 34.86 | 890 | 0.35 | 0.33 | 48.7 |
| 4/23/2015 8:24:27 | 38.39 | 35.19 | 882 | 0.35 | 0.32 | 48.2 |
| 4/23/2015 8:24:27 | 38.71 | 35.51 | 882 | 0.39 | 0.32 | 48.2 |
| 4/23/2015 8:24:28 | 39.04 | 35.84 | 883 | 0.36 | 0.33 | 48.3 |
| 4/23/2015 8:24:28 | 39.37 | 36.17 | 883 | 0.36 | 0.33 | 48.3 |
| 4/23/2015 8:24:28 | 39.70 | 36.50 | 883 | 0.35 | 0.33 | 48.3 |
| 4/23/2015 8:24:29 | 40.03 | 36.83 | 893 | 0.35 | 0.33 | 48.8 |
| 4/23/2015 8:24:29 | 40.35 | 37.15 | 913 | 0.35 | 0.33 | 49.9 |
| 4/23/2015 8:24:30 | 40.68 | 37.48 | 913 | 0.35 | 0.33 | 49.9 |
| 4/23/2015 8:24:30 | 41.01 | 37.81 | 893 | 0.35 | 0.33 | 48.8 |
| 4/23/2015 8:24:30 | 41.34 | 38.14 | 913 | 0.35 | 0.33 | 49.9 |
| 4/23/2015 8:24:31 | 41.67 | 38.47 | 911 | 0.35 | 0.33 | 49.8 |
| 4/23/2015 8:24:31 | 41.99 | 38.79 | 911 | 0.35 | 0.33 | 49.8 |
| 4/23/2015 8:24:31 | 42.32 | 39.12 | 896 | 0.35 | 0.33 | 49.0 |
| 4/23/2015 8:24:32 | 42.65 | 39.45 | 899 | 0.34 | 0.33 | 49.2 |
| 4/23/2015 8:24:32 | 42.98 | 39.78 | 902 | 0.35 | 0.32 | 49.3 |
| 4/23/2015 8:24:33 | 43.31 | 40.11 | 902 | 0.35 | 0.32 | 49.3 |
| 4/23/2015 8:24:33 | 43.64 | 40.44 | 902 | 0.35 | 0.32 | 49.3 |
| 4/23/2015 8:24:33 | 43.96 | 40.76 | 905 | 0.35 | 0.32 | 49.5 |
| 4/23/2015 8:24:34 | 44.29 | 41.09 | 899 | 0.35 | 0.33 | 49.2 |
| 4/23/2015 8:24:34 | 44.62 | 41.42 | 908 | 0.35 | 0.33 | 49.6 |
| 4/23/2015 8:24:35 | 44.95 | 41.75 | 908 | 0.35 | 0.33 | 49.6 |
| 4/23/2015 8:24:35 | 45.28 | 42.08 | 908 | 0.35 | 0.33 | 49.6 |
| 4/23/2015 8:24:36 | 45.60 | 42.40 | 902 | 0.35 | 0.33 | 49.3 |
| 4/23/2015 8:24:36 | 45.93 | 42.73 | 896 | 0.35 | 0.33 | 49.0 |
| 4/23/2015 8:24:37 | 46.26 | 43.06 | 896 | 0.35 | 0.33 | 49.0 |
| 4/23/2015 8:24:37 | 46.59 | 43.39 | 899 | 0.41 | 0.33 | 49.2 |
| 4/23/2015 8:24:37 | 46.92 | 43.72 | 893 | 0.41 | 0.33 | 48.8 |
| 4/23/2015 8:24:38 | 47.24 | 44.04 | 887 | 0.47 | 0.33 | 48.5 |
| 4/23/2015 8:24:38 | 47.57 | 44.37 | 879 | 0.37 | 0.32 | 48.1 |
| 4/23/2015 8:24:39 | 47.90 | 44.70 | 879 | 0.37 | 0.32 | 48.1 |
| 4/23/2015 8:24:39 | 48.23 | 45.03 | 888 | 0.50 | 0.34 | 48.5 |
| 4/23/2015 8:24:39 | 48.56 | 45.36 | 870 | 0.33 | 0.33 | 47.6 |
| 4/23/2015 8:24:40 | 48.88 | 45.68 | 865 | 0.38 | 0.33 | 47.3 |
| 4/23/2015 8:24:40 | 49.21 | 46.01 | 865 | 0.38 | 0.33 | 47.3 |
| 4/23/2015 8:24:40 | 49.54 | 46.34 | 865 | 0.38 | 0.33 | 47.3 |
| 4/23/2015 8:24:41 | 49.87 | 46.67 | 867 | 0.34 | 0.33 | 47.4 |
| 4/23/2015 8:24:41 | 50.20 | 47.00 | 859 | 0.37 | 0.35 | 47.0 |
| 4/23/2015 8:24:52 | 50.53 | 47.33 | 0 | 2.64 | 0.35 | 0.0 |
| 4/23/2015 8:24:52 | 50.85 | 47.65 | 43 | 3.73 | 0.36 | 2.4 |
| 4/23/2015 8:24:53 | 51.18 | 47.98 | 129 | 3.18 | 0.35 | 7.1 |
| 4/23/2015 8:24:53 | 51.51 | 48.31 | 278 | 3.29 | 0.34 | 15.2 |
| 4/23/2015 8:24:54 | 51.84 | 48.64 | 418 | 2.19 | 0.34 | 22.8 |
| 4/23/2015 8:24:54 | 52.17 | 48.97 | 580 | 2.18 | 0.34 | 31.7 |
| 4/23/2015 8:24:55 | 52.49 | 49.29 | 682 | 2.17 | 0.34 | 37.3 |
| 4/23/2015 8:24:56 | 52.82 | 49.62 | 758 | 2.18 | 0.34 | 41.5 |
| 4/23/2015 8:24:56 | 53.15 | 49.95 | 759 | 2.18 | 0.34 | 41.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:24:57 | 53.48 | 50.28 | 761 | 2.17 | 0.34 | 41.6 |
| 4/23/2015 | 8:24:57 | 53.81 | 50.61 | 761 | 2.17 | 0.34 | 41.6 |
| 4/23/2015 | 8:24:58 | 54.13 | 50.93 | 761 | 2.17 | 0.34 | 41.6 |
| 4/23/2015 | 8:24:58 | 54.46 | 51.26 | 765 | 2.17 | 0.34 | 41.9 |
| 4/23/2015 | 8:24:58 | 54.79 | 51.59 | 784 | 2.17 | 0.34 | 42.9 |
| 4/23/2015 | 8:24:59 | 55.12 | 51.92 | 778 | 2.33 | 0.34 | 42.5 |
| 4/23/2015 | 8:24:59 | 55.45 | 52.25 | 776 | 2.25 | 0.34 | 42.5 |
| 4/23/2015 | 8:25:00 | 55.77 | 52.57 | 775 | 2.27 | 0.34 | 42.4 |
| 4/23/2015 | 8:25:00 | 56.10 | 52.90 | 775 | 2.19 | 0.34 | 42.4 |
| 4/23/2015 | 8:25:01 | 56.43 | 53.23 | 754 | 2.17 | 0.34 | 41.2 |
| 4/23/2015 | 8:25:01 | 56.76 | 53.56 | 754 | 2.20 | 0.34 | 41.2 |
| 4/23/2015 | 8:25:02 | 57.09 | 53.89 | 737 | 2.50 | 0.35 | 40.3 |
| 4/23/2015 | 8:25:02 | 57.41 | 54.21 | 737 | 3.98 | 0.38 | 40.3 |
| 4/23/2015 | 8:25:14 | 57.74 | 54.54 | 24 | 3.93 | 0.40 | 1.3 |
| 4/23/2015 | 8:25:29 | 58.07 | 54.87 | 37 | 3.07 | 0.40 | 2.0 |
| 4/23/2015 | 8:25:32 | 58.23 | 55.03 | 58 | 4.08 | 0.40 | 3.2 |

## G49 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:22:26

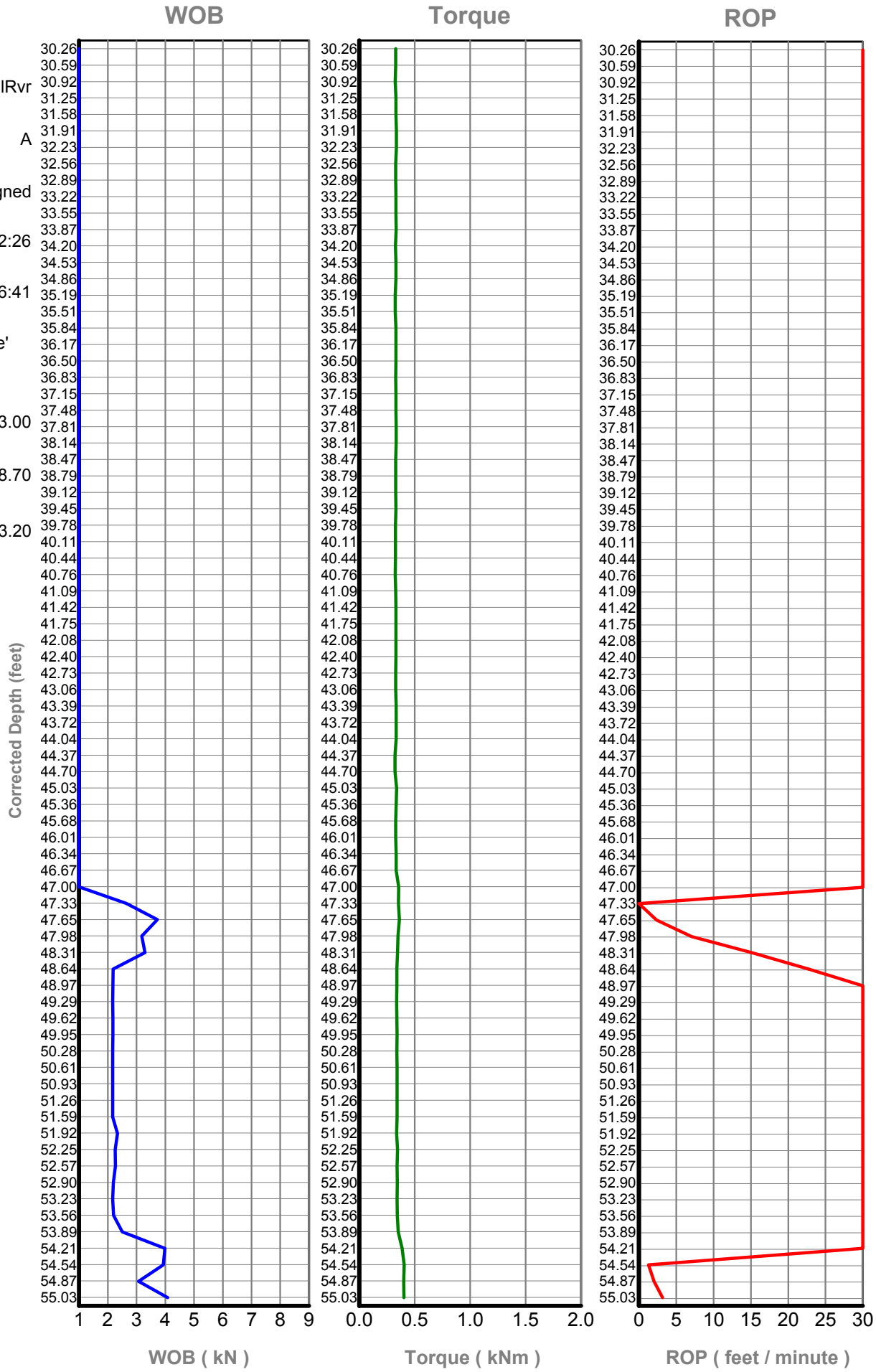
**End Date:**
4/23/2015 8:26:41

**Operator Note:**
'3.2 3.2 b Auto Complete'

**Northing:**
367,033.00

**Easting:**
252,178.70

**Tide (feet):**
3.20



## Hole: G5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:51:17 | 32.15 | 30.15 | 934 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 21:51:18 | 32.48 | 30.48 | 937 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 21:51:18 | 32.81 | 30.81 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:19 | 33.14 | 31.14 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:19 | 33.46 | 31.46 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:19 | 33.79 | 31.79 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:20 | 34.12 | 32.12 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:21 | 34.45 | 32.45 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 21:51:21 | 34.78 | 32.78 | 934 | 1.66 | 1.29 | 51.0 |
| 4/22/2015 21:51:21 | 35.11 | 33.11 | 936 | 1.66 | 1.29 | 51.2 |
| 4/22/2015 21:51:22 | 35.43 | 33.43 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 21:51:22 | 35.76 | 33.76 | 925 | 1.66 | 1.29 | 50.6 |
| 4/22/2015 21:51:22 | 36.09 | 34.09 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 21:51:23 | 36.42 | 34.42 | 922 | 1.66 | 1.29 | 50.4 |
| 4/22/2015 21:51:23 | 36.75 | 34.75 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 21:51:24 | 37.07 | 35.07 | 927 | 1.66 | 1.29 | 50.7 |
| 4/22/2015 21:51:24 | 37.40 | 35.40 | 919 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 21:51:47 | 37.73 | 35.73 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 21:51:47 | 38.06 | 36.06 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 21:51:47 | 38.39 | 36.39 | 260 | 1.66 | 1.29 | 14.2 |
| 4/22/2015 21:51:48 | 38.71 | 36.71 | 442 | 1.66 | 1.29 | 24.2 |
| 4/22/2015 21:51:48 | 39.04 | 37.04 | 613 | 1.66 | 1.29 | 33.5 |
| 4/22/2015 21:51:49 | 39.37 | 37.37 | 613 | 1.66 | 1.29 | 33.5 |
| 4/22/2015 21:51:49 | 39.70 | 37.70 | 796 | 1.66 | 1.29 | 43.5 |
| 4/22/2015 21:51:49 | 40.03 | 38.03 | 884 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:51:50 | 40.35 | 38.35 | 884 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:51:50 | 40.68 | 38.68 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:51:51 | 41.01 | 39.01 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:51:51 | 41.34 | 39.34 | 884 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:51:51 | 41.67 | 39.67 | 884 | 1.66 | 1.29 | 48.4 |
| 4/22/2015 21:51:52 | 41.99 | 39.99 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:51:52 | 42.32 | 40.32 | 882 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 21:51:52 | 42.65 | 40.65 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 21:51:53 | 42.98 | 40.98 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:51:53 | 43.31 | 41.31 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 21:51:54 | 43.64 | 41.64 | 898 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 21:51:54 | 43.96 | 41.96 | 893 | 1.66 | 1.29 | 48.8 |
| 4/22/2015 21:51:55 | 44.29 | 42.29 | 901 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 21:51:55 | 44.62 | 42.62 | 896 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:51:56 | 44.95 | 42.95 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 21:51:56 | 45.28 | 43.28 | 899 | 1.66 | 1.29 | 49.1 |
| 4/22/2015 21:51:56 | 45.60 | 43.60 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:51:57 | 45.93 | 43.93 | 890 | 1.66 | 1.29 | 48.7 |
| 4/22/2015 21:51:57 | 46.26 | 44.26 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 21:51:58 | 46.59 | 44.59 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 21:51:58 | 46.92 | 44.92 | 897 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:51:58 | 47.24 | 45.24 | 897 | 1.66 | 1.29 | 49.0 |
| 4/22/2015 21:51:59 | 47.57 | 45.57 | 900 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 21:51:59 | 47.90 | 45.90 | 900 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 21:51:59 | 48.23 | 46.23 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 21:52:00 | 48.56 | 46.56 | 899 | 1.66 | 1.29 | 49.2 |
| 4/22/2015 21:52:00 | 48.88 | 46.88 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 21:52:01 | 49.21 | 47.21 | 902 | 1.66 | 1.29 | 49.3 |
| 4/22/2015 21:52:01 | 49.54 | 47.54 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 21:52:01 | 49.87 | 47.87 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 21:52:06 | 50.20 | 48.20 | 6 | 1.66 | 1.29 | 0.3 |
| 4/22/2015 21:52:29 | 50.53 | 48.53 | 100 | 1.66 | 1.29 | 5.5 |
| 4/22/2015 21:52:30 | 50.85 | 48.85 | 245 | 1.66 | 1.29 | 13.4 |
| 4/22/2015 21:52:31 | 51.18 | 49.18 | 384 | 1.66 | 1.29 | 21.0 |
| 4/22/2015 21:52:31 | 51.51 | 49.51 | 369 | 1.66 | 1.29 | 20.2 |
| 4/22/2015 21:52:32 | 51.84 | 49.84 | 401 | 1.66 | 1.29 | 22.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 21:52:33 | 52.17 | 50.17 | 427 | 1.66 | 1.29 | 23.4 |
| 4/22/2015 | 21:52:34 | 52.49 | 50.49 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 | 21:52:34 | 52.82 | 50.82 | 494 | 1.66 | 1.29 | 27.0 |
| 4/22/2015 | 21:52:35 | 53.15 | 51.15 | 477 | 1.66 | 1.29 | 26.1 |
| 4/22/2015 | 21:52:36 | 53.48 | 51.48 | 465 | 1.66 | 1.29 | 25.4 |
| 4/22/2015 | 21:52:37 | 53.81 | 51.81 | 413 | 1.66 | 1.29 | 22.6 |
| 4/22/2015 | 21:52:38 | 54.13 | 52.13 | 407 | 1.66 | 1.29 | 22.3 |
| 4/22/2015 | 21:52:39 | 54.46 | 52.46 | 410 | 1.66 | 1.29 | 22.4 |
| 4/22/2015 | 21:52:39 | 54.79 | 52.79 | 416 | 1.66 | 1.29 | 22.8 |
| 4/22/2015 | 21:52:41 | 55.12 | 53.12 | 410 | 1.66 | 1.29 | 22.4 |
| 4/22/2015 | 21:52:53 | 55.45 | 53.45 | 47 | 1.66 | 1.29 | 2.6 |
| 4/22/2015 | 21:52:57 | 55.77 | 53.77 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 21:53:38 | 56.10 | 54.10 | 38 | 1.66 | 1.29 | 2.1 |
| 4/22/2015 | 21:53:42 | 56.43 | 54.43 | 93 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 | 21:53:46 | 56.76 | 54.76 | 84 | 1.66 | 1.29 | 4.6 |
| 4/22/2015 | 21:53:51 | 57.09 | 55.09 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 21:55:06 | 57.16 | 55.16 | 0 | 1.66 | 1.29 | 0.0 |

## G5 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:44:51

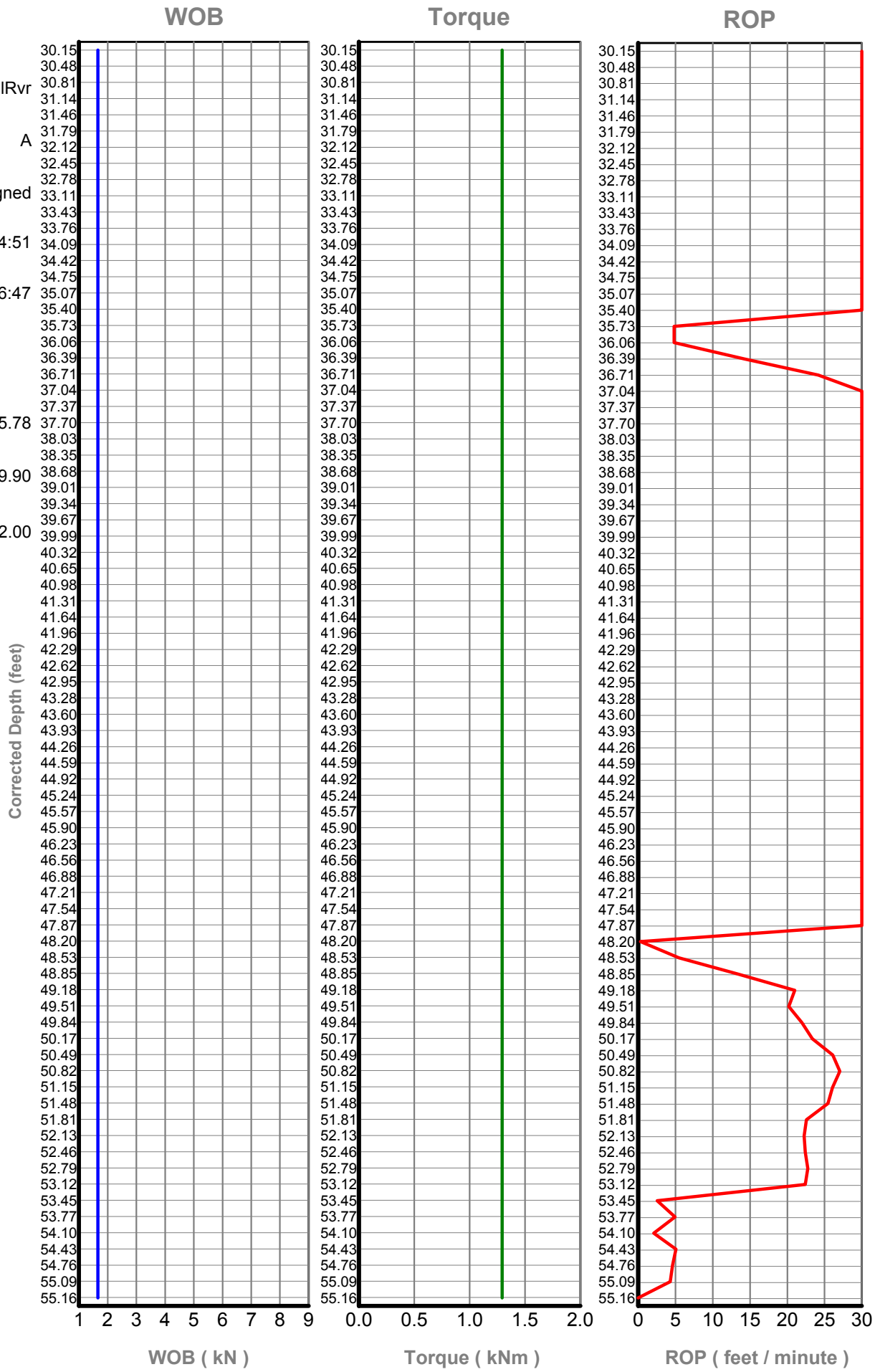
**End Date:**
4/22/2015 21:56:47

**Operator Note:**
'2 '6.2 2.1 b Auto Complete'

**Northing:**
367,505.78

**Easting:**
252,169.90

**Tide (feet):**
2.00



## Hole: G50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:16:45 | 33.46 | 30.16 | 888 | 0.35 | 0.33 | 48.5 |
| 4/23/2015 8:16:45 | 33.79 | 30.49 | 887 | 0.34 | 0.33 | 48.5 |
| 4/23/2015 8:16:46 | 34.12 | 30.82 | 887 | 0.34 | 0.33 | 48.5 |
| 4/23/2015 8:16:46 | 34.45 | 31.15 | 896 | 0.34 | 0.33 | 49.0 |
| 4/23/2015 8:16:46 | 34.78 | 31.48 | 888 | 0.34 | 0.33 | 48.5 |
| 4/23/2015 8:16:47 | 35.11 | 31.81 | 885 | 0.34 | 0.33 | 48.4 |
| 4/23/2015 8:16:47 | 35.43 | 32.13 | 885 | 0.34 | 0.33 | 48.4 |
| 4/23/2015 8:16:47 | 35.76 | 32.46 | 885 | 0.29 | 0.33 | 48.4 |
| 4/23/2015 8:16:48 | 36.09 | 32.79 | 888 | 0.34 | 0.33 | 48.5 |
| 4/23/2015 8:16:48 | 36.42 | 33.12 | 873 | 0.34 | 0.33 | 47.8 |
| 4/23/2015 8:16:49 | 36.75 | 33.45 | 882 | 0.36 | 0.33 | 48.2 |
| 4/23/2015 8:16:50 | 37.07 | 33.77 | 882 | 0.36 | 0.33 | 48.2 |
| 4/23/2015 8:16:49 | 37.40 | 34.10 | 872 | 0.34 | 0.33 | 47.7 |
| 4/23/2015 8:16:50 | 37.73 | 34.43 | 885 | 0.34 | 0.33 | 48.4 |
| 4/23/2015 8:16:51 | 38.06 | 34.76 | 885 | 0.34 | 0.33 | 48.4 |
| 4/23/2015 8:16:51 | 38.39 | 35.09 | 885 | 0.34 | 0.33 | 48.4 |
| 4/23/2015 8:16:51 | 38.71 | 35.41 | 897 | 0.35 | 0.33 | 49.0 |
| 4/23/2015 8:16:52 | 39.04 | 35.74 | 881 | 0.35 | 0.33 | 48.2 |
| 4/23/2015 8:16:52 | 39.37 | 36.07 | 897 | 0.35 | 0.33 | 49.1 |
| 4/23/2015 8:16:53 | 39.70 | 36.40 | 897 | 0.35 | 0.33 | 49.1 |
| 4/23/2015 8:16:53 | 40.03 | 36.73 | 897 | 0.34 | 0.33 | 49.1 |
| 4/23/2015 8:16:53 | 40.35 | 37.05 | 903 | 0.33 | 0.34 | 49.4 |
| 4/23/2015 8:16:54 | 40.68 | 37.38 | 885 | 0.35 | 0.33 | 48.4 |
| 4/23/2015 8:16:54 | 41.01 | 37.71 | 906 | 0.35 | 0.33 | 49.6 |
| 4/23/2015 8:16:55 | 41.34 | 38.04 | 906 | 0.35 | 0.33 | 49.6 |
| 4/23/2015 8:16:55 | 41.67 | 38.37 | 882 | 0.36 | 0.33 | 48.3 |
| 4/23/2015 8:16:55 | 41.99 | 38.69 | 871 | 0.35 | 0.33 | 47.6 |
| 4/23/2015 8:16:56 | 42.32 | 39.02 | 871 | 0.34 | 0.33 | 47.6 |
| 4/23/2015 8:16:56 | 42.65 | 39.35 | 871 | 0.34 | 0.33 | 47.6 |
| 4/23/2015 8:16:56 | 42.98 | 39.68 | 880 | 0.35 | 0.33 | 48.1 |
| 4/23/2015 8:16:57 | 43.31 | 40.01 | 884 | 0.35 | 0.33 | 48.4 |
| 4/23/2015 8:16:57 | 43.64 | 40.34 | 861 | 0.35 | 0.33 | 47.1 |
| 4/23/2015 8:16:58 | 43.96 | 40.66 | 861 | 0.35 | 0.33 | 47.1 |
| 4/23/2015 8:16:58 | 44.29 | 40.99 | 861 | 0.35 | 0.33 | 47.1 |
| 4/23/2015 8:16:58 | 44.62 | 41.32 | 878 | 0.35 | 0.32 | 48.0 |
| 4/23/2015 8:16:59 | 44.95 | 41.65 | 892 | 0.35 | 0.33 | 48.8 |
| 4/23/2015 8:16:59 | 45.28 | 41.98 | 886 | 0.35 | 0.33 | 48.5 |
| 4/23/2015 8:17:00 | 45.60 | 42.30 | 886 | 0.35 | 0.33 | 48.5 |
| 4/23/2015 8:17:00 | 45.93 | 42.63 | 891 | 0.35 | 0.33 | 48.7 |
| 4/23/2015 8:17:00 | 46.26 | 42.96 | 911 | 0.35 | 0.33 | 49.8 |
| 4/23/2015 8:17:01 | 46.59 | 43.29 | 915 | 0.35 | 0.33 | 50.0 |
| 4/23/2015 8:17:02 | 46.92 | 43.62 | 915 | 0.35 | 0.33 | 50.0 |
| 4/23/2015 8:17:02 | 47.24 | 43.94 | 891 | 0.35 | 0.33 | 48.7 |
| 4/23/2015 8:17:02 | 47.57 | 44.27 | 897 | 0.36 | 0.33 | 49.0 |
| 4/23/2015 8:17:03 | 47.90 | 44.60 | 895 | 0.35 | 0.33 | 48.9 |
| 4/23/2015 8:17:03 | 48.23 | 44.93 | 895 | 0.35 | 0.33 | 48.9 |
| 4/23/2015 8:17:03 | 48.56 | 45.26 | 882 | 0.35 | 0.33 | 48.2 |
| 4/23/2015 8:17:04 | 48.88 | 45.58 | 882 | 0.34 | 0.33 | 48.2 |
| 4/23/2015 8:17:04 | 49.21 | 45.91 | 879 | 0.35 | 0.33 | 48.1 |
| 4/23/2015 8:17:05 | 49.54 | 46.24 | 879 | 0.35 | 0.33 | 48.1 |
| 4/23/2015 8:17:05 | 49.87 | 46.57 | 879 | 0.35 | 0.33 | 48.1 |
| 4/23/2015 8:17:05 | 50.20 | 46.90 | 896 | 0.35 | 0.24 | 49.0 |
| 4/23/2015 8:17:06 | 50.53 | 47.23 | 899 | 0.35 | 0.33 | 49.1 |
| 4/23/2015 8:17:06 | 50.85 | 47.55 | 896 | 0.35 | 0.32 | 49.0 |
| 4/23/2015 8:17:07 | 51.18 | 47.88 | 896 | 0.35 | 0.32 | 49.0 |
| 4/23/2015 8:17:07 | 51.51 | 48.21 | 904 | 0.35 | 0.41 | 49.4 |
| 4/23/2015 8:17:07 | 51.84 | 48.54 | 904 | 0.34 | 0.36 | 49.4 |
| 4/23/2015 8:17:08 | 52.17 | 48.87 | 872 | 0.33 | 0.35 | 47.7 |
| 4/23/2015 8:17:08 | 52.49 | 49.19 | 872 | 0.34 | 0.36 | 47.7 |
| 4/23/2015 8:17:10 | 52.82 | 49.52 | 537 | 0.33 | 0.39 | 29.4 |
| 4/23/2015 8:17:11 | 53.15 | 49.85 | 412 | 0.34 | 0.37 | 22.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:17:12 | 53.48 | 50.18 | 358 | 0.34 | 0.36 | 19.6 |
| 4/23/2015 | 8:17:12 | 53.81 | 50.51 | 347 | 0.34 | 0.36 | 19.0 |
| 4/23/2015 | 8:17:13 | 54.13 | 50.83 | 497 | 0.34 | 0.35 | 27.2 |
| 4/23/2015 | 8:17:14 | 54.46 | 51.16 | 546 | 0.32 | 0.38 | 29.9 |
| 4/23/2015 | 8:17:35 | 54.79 | 51.49 | 9 | 4.00 | 0.38 | 0.5 |
| 4/23/2015 | 8:17:37 | 55.12 | 51.82 | 174 | 3.96 | 0.40 | 9.5 |
| 4/23/2015 | 8:17:42 | 55.45 | 52.15 | 50 | 3.70 | 0.40 | 2.7 |
| 4/23/2015 | 8:17:48 | 55.77 | 52.47 | 64 | 4.03 | 0.37 | 3.5 |
| 4/23/2015 | 8:17:54 | 56.10 | 52.80 | 58 | 3.50 | 0.40 | 3.2 |
| 4/23/2015 | 8:17:58 | 56.36 | 53.06 | 69 | 3.51 | 0.40 | 3.8 |

## G50 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:13:20

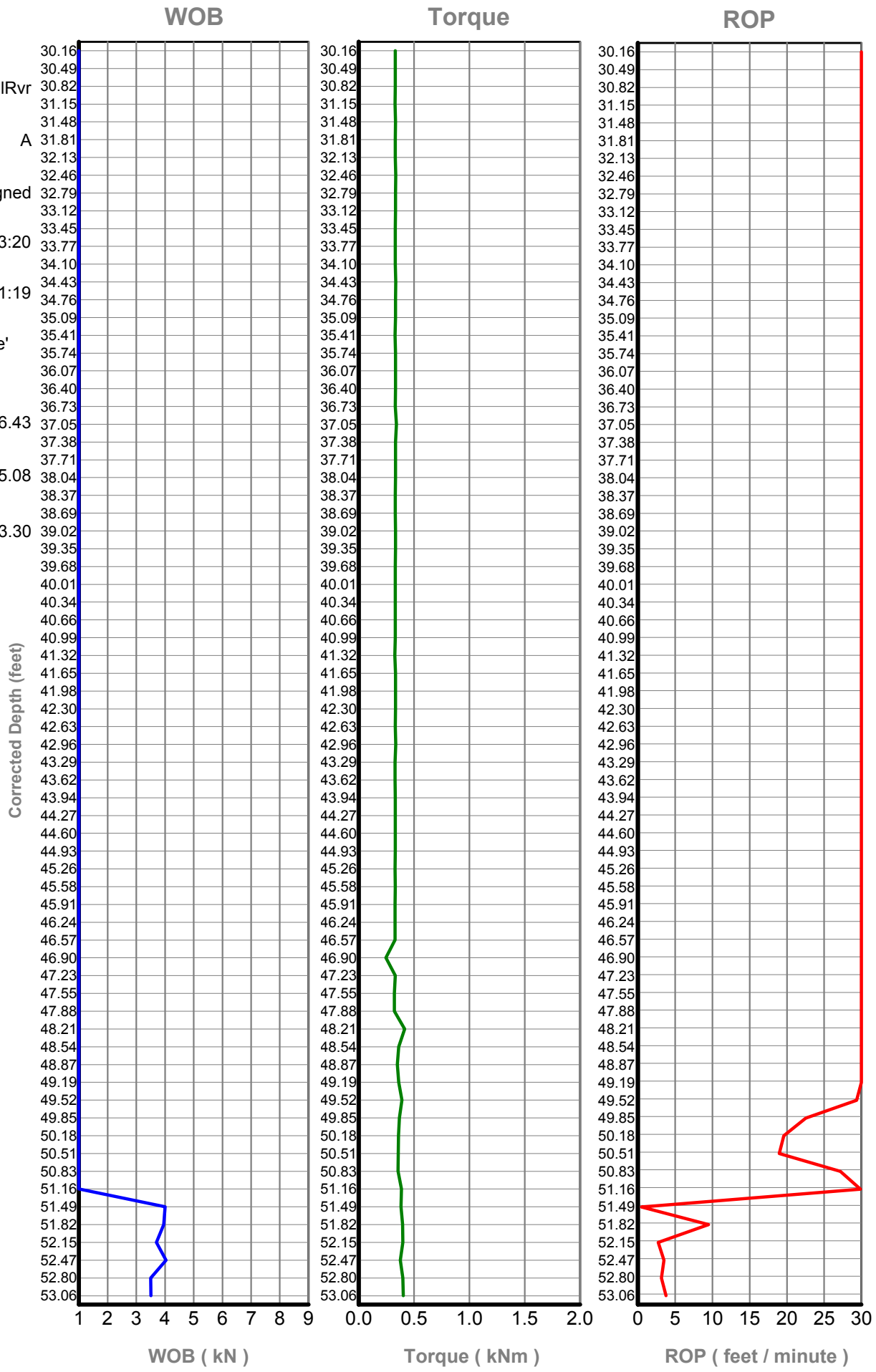
**End Date:**
4/23/2015 8:21:19

**Operator Note:**
'3.3 3.4 b Auto Complete'

**Northing:**
367,076.43

**Easting:**
252,235.08

**Tide (feet):**
3.30



## Hole: G51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:17:46 | 33.46 | 30.26 | 367 | 1.59 | 0.31 | 20.0 |
| 4/23/2015 8:17:48 | 33.79 | 30.59 | 368 | 1.61 | 0.32 | 20.1 |
| 4/23/2015 8:17:48 | 34.12 | 30.92 | 368 | 1.60 | 0.31 | 20.1 |
| 4/23/2015 8:17:49 | 34.45 | 31.25 | 360 | 1.59 | 0.31 | 19.7 |
| 4/23/2015 8:17:50 | 34.78 | 31.58 | 370 | 1.60 | 0.31 | 20.2 |
| 4/23/2015 8:17:51 | 35.11 | 31.91 | 365 | 1.61 | 0.31 | 20.0 |
| 4/23/2015 8:17:52 | 35.43 | 32.23 | 372 | 1.61 | 0.31 | 20.3 |
| 4/23/2015 8:17:53 | 35.76 | 32.56 | 373 | 1.59 | 0.31 | 20.4 |
| 4/23/2015 8:17:54 | 36.09 | 32.89 | 366 | 1.59 | 0.31 | 20.0 |
| 4/23/2015 8:17:55 | 36.42 | 33.22 | 369 | 1.60 | 0.31 | 20.2 |
| 4/23/2015 8:17:56 | 36.75 | 33.55 | 365 | 1.59 | 0.31 | 19.9 |
| 4/23/2015 8:17:57 | 37.07 | 33.87 | 371 | 1.60 | 0.31 | 20.3 |
| 4/23/2015 8:17:58 | 37.40 | 34.20 | 365 | 1.60 | 0.32 | 20.0 |
| 4/23/2015 8:17:59 | 37.73 | 34.53 | 371 | 1.60 | 0.32 | 20.3 |
| 4/23/2015 8:18:00 | 38.06 | 34.86 | 367 | 1.61 | 0.33 | 20.0 |
| 4/23/2015 8:18:01 | 38.39 | 35.19 | 367 | 1.57 | 0.32 | 20.1 |
| 4/23/2015 8:18:02 | 38.71 | 35.51 | 365 | 1.59 | 0.32 | 20.0 |
| 4/23/2015 8:18:03 | 39.04 | 35.84 | 364 | 1.60 | 0.32 | 19.9 |
| 4/23/2015 8:18:04 | 39.37 | 36.17 | 360 | 1.62 | 0.32 | 19.7 |
| 4/23/2015 8:18:05 | 39.70 | 36.50 | 362 | 1.59 | 0.32 | 19.8 |
| 4/23/2015 8:18:06 | 40.03 | 36.83 | 371 | 1.60 | 0.31 | 20.3 |
| 4/23/2015 8:18:07 | 40.35 | 37.15 | 373 | 1.59 | 0.31 | 20.4 |
| 4/23/2015 8:18:08 | 40.68 | 37.48 | 367 | 1.60 | 0.31 | 20.1 |
| 4/23/2015 8:18:09 | 41.01 | 37.81 | 359 | 1.62 | 0.31 | 19.6 |
| 4/23/2015 8:18:10 | 41.34 | 38.14 | 359 | 1.59 | 0.31 | 19.6 |
| 4/23/2015 8:18:11 | 41.67 | 38.47 | 361 | 1.60 | 0.31 | 19.8 |
| 4/23/2015 8:18:12 | 41.99 | 38.79 | 366 | 1.60 | 0.31 | 20.0 |
| 4/23/2015 8:18:13 | 42.32 | 39.12 | 365 | 1.60 | 0.31 | 20.0 |
| 4/23/2015 8:18:14 | 42.65 | 39.45 | 370 | 1.60 | 0.31 | 20.2 |
| 4/23/2015 8:18:15 | 42.98 | 39.78 | 367 | 1.60 | 0.32 | 20.1 |
| 4/23/2015 8:18:16 | 43.31 | 40.11 | 369 | 1.60 | 0.31 | 20.2 |
| 4/23/2015 8:18:16 | 43.64 | 40.44 | 364 | 1.61 | 0.31 | 19.9 |
| 4/23/2015 8:18:17 | 43.96 | 40.76 | 367 | 1.59 | 0.31 | 20.1 |
| 4/23/2015 8:18:18 | 44.29 | 41.09 | 367 | 1.59 | 0.31 | 20.1 |
| 4/23/2015 8:18:20 | 44.62 | 41.42 | 367 | 1.62 | 0.32 | 20.1 |
| 4/23/2015 8:18:21 | 44.95 | 41.75 | 367 | 1.59 | 0.32 | 20.1 |
| 4/23/2015 8:18:22 | 45.28 | 42.08 | 367 | 1.62 | 0.32 | 20.1 |
| 4/23/2015 8:18:23 | 45.60 | 42.40 | 364 | 1.59 | 0.32 | 19.9 |
| 4/23/2015 8:18:24 | 45.93 | 42.73 | 363 | 1.60 | 0.30 | 19.9 |
| 4/23/2015 8:18:24 | 46.26 | 43.06 | 363 | 1.59 | 0.32 | 19.9 |
| 4/23/2015 8:18:25 | 46.59 | 43.39 | 361 | 1.60 | 0.32 | 19.8 |
| 4/23/2015 8:18:26 | 46.92 | 43.72 | 364 | 1.60 | 0.32 | 19.9 |
| 4/23/2015 8:18:27 | 47.24 | 44.04 | 367 | 1.59 | 0.32 | 20.1 |
| 4/23/2015 8:18:28 | 47.57 | 44.37 | 367 | 1.59 | 0.32 | 20.1 |
| 4/23/2015 8:18:30 | 47.90 | 44.70 | 370 | 1.60 | 0.32 | 20.2 |
| 4/23/2015 8:18:31 | 48.23 | 45.03 | 366 | 1.60 | 0.32 | 20.0 |
| 4/23/2015 8:18:32 | 48.56 | 45.36 | 367 | 1.59 | 0.32 | 20.1 |
| 4/23/2015 8:18:33 | 48.88 | 45.68 | 365 | 1.59 | 0.32 | 20.0 |
| 4/23/2015 8:18:33 | 49.21 | 46.01 | 367 | 1.59 | 0.32 | 20.1 |
| 4/23/2015 8:18:34 | 49.54 | 46.34 | 366 | 1.59 | 0.32 | 20.0 |
| 4/23/2015 8:18:35 | 49.87 | 46.67 | 364 | 1.62 | 0.32 | 19.9 |
| 4/23/2015 8:18:36 | 50.20 | 47.00 | 363 | 1.60 | 0.31 | 19.8 |
| 4/23/2015 8:18:37 | 50.53 | 47.33 | 363 | 1.60 | 0.32 | 19.8 |
| 4/23/2015 8:18:39 | 50.85 | 47.65 | 357 | 1.62 | 0.32 | 19.5 |
| 4/23/2015 8:18:39 | 51.18 | 47.98 | 357 | 1.59 | 0.32 | 19.5 |
| 4/23/2015 8:18:40 | 51.51 | 48.31 | 368 | 1.60 | 0.32 | 20.1 |
| 4/23/2015 8:18:41 | 51.84 | 48.64 | 374 | 1.59 | 0.32 | 20.4 |
| 4/23/2015 8:18:42 | 52.17 | 48.97 | 360 | 1.59 | 0.32 | 19.7 |
| 4/23/2015 8:19:06 | 52.49 | 49.29 | 56 | 1.60 | 1.11 | 3.1 |
| 4/23/2015 8:19:11 | 52.82 | 49.62 | 0 | 1.57 | 1.06 | 0.0 |
| 4/23/2015 8:19:13 | 53.15 | 49.95 | 152 | 1.62 | 1.22 | 8.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:19:15 | 53.48 | 50.28 | 206 | 1.62 | 1.04 | 11.3 |
| 4/23/2015 | 8:19:16 | 53.81 | 50.61 | 228 | 1.59 | 1.05 | 12.5 |
| 4/23/2015 | 8:19:18 | 54.13 | 50.93 | 211 | 1.59 | 1.05 | 11.5 |
| 4/23/2015 | 8:19:19 | 54.46 | 51.26 | 208 | 1.59 | 1.01 | 11.4 |
| 4/23/2015 | 8:19:21 | 54.79 | 51.59 | 226 | 1.59 | 1.05 | 12.3 |
| 4/23/2015 | 8:19:23 | 55.12 | 51.92 | 228 | 1.59 | 1.02 | 12.5 |
| 4/23/2015 | 8:19:25 | 55.45 | 52.25 | 208 | 1.62 | 1.09 | 11.4 |
| 4/23/2015 | 8:19:26 | 55.77 | 52.57 | 192 | 1.60 | 0.97 | 10.5 |
| 4/23/2015 | 8:19:28 | 56.10 | 52.90 | 204 | 1.61 | 0.99 | 11.1 |
| 4/23/2015 | 8:19:36 | 56.43 | 53.23 | 25 | 1.59 | 1.13 | 1.4 |
| 4/23/2015 | 8:19:40 | 56.76 | 53.56 | 113 | 1.61 | 1.26 | 6.2 |
| 4/23/2015 | 8:19:42 | 57.09 | 53.89 | 145 | 1.64 | 1.07 | 7.9 |
| 4/23/2015 | 8:19:44 | 57.41 | 54.21 | 179 | 1.60 | 1.01 | 9.8 |
| 4/23/2015 | 8:19:46 | 57.74 | 54.54 | 195 | 1.63 | 0.96 | 10.7 |
| 4/23/2015 | 8:19:47 | 58.07 | 54.87 | 223 | 1.61 | 1.42 | 12.2 |
| 4/23/2015 | 8:19:53 | 58.40 | 55.20 | 93 | 1.60 | 1.10 | 5.1 |
| 4/23/2015 | 8:19:53 | 58.50 | 55.30 | 101 | 1.60 | 1.13 | 5.5 |

## G51 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:15:23

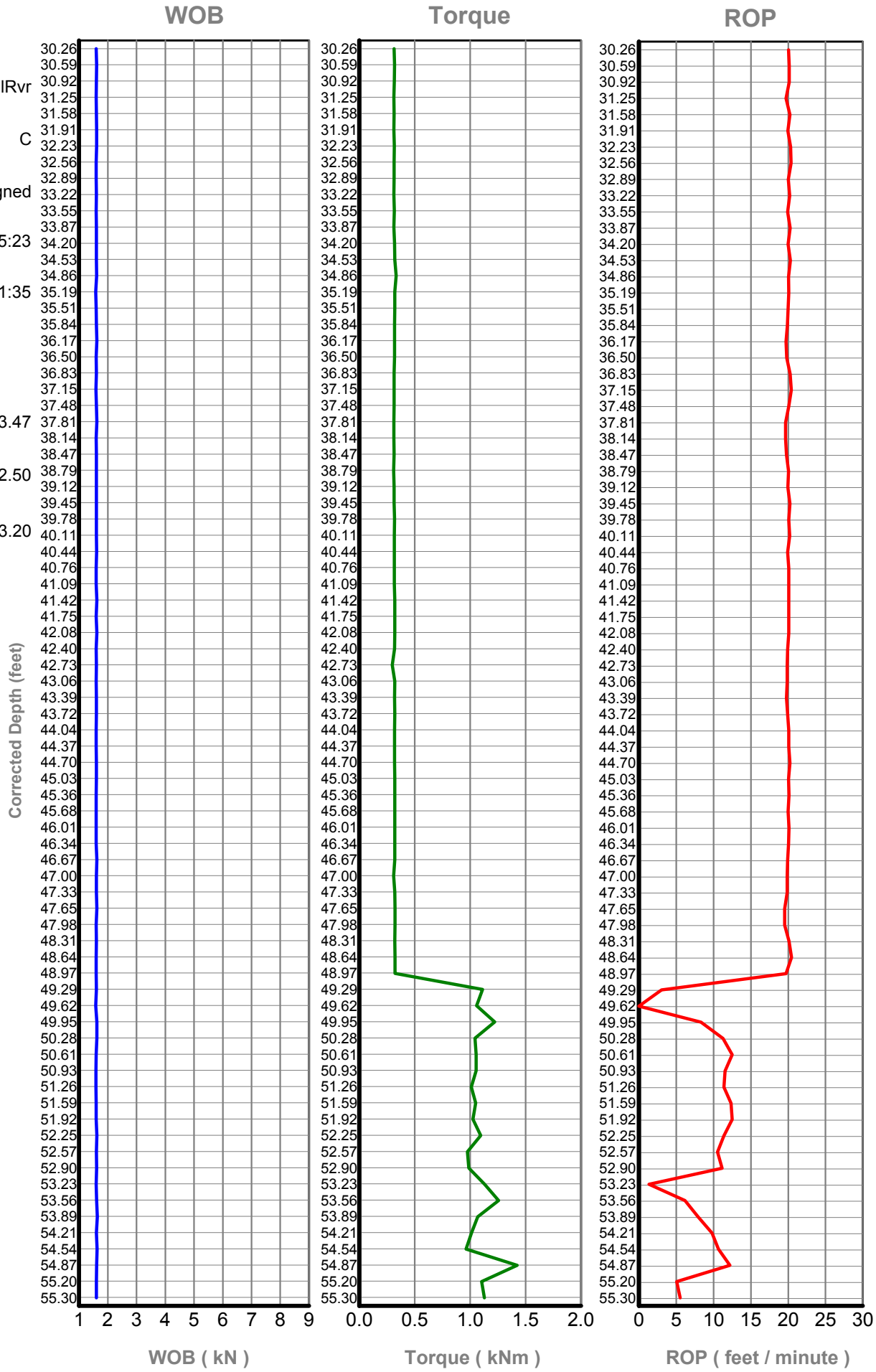
**End Date:**
4/23/2015 8:21:35

**Operator Note:**
'3.2 3.4 C Auto Complete'

**Northing:**
367,123.47

**Easting:**
252,292.50

**Tide (feet):**
3.20



## Hole: G52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:52:37 | 36.09 | 30.29 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 17:52:37 | 36.42 | 30.62 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 17:52:37 | 36.75 | 30.95 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:52:38 | 37.07 | 31.27 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:38 | 37.40 | 31.60 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:38 | 37.73 | 31.93 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 17:52:39 | 38.06 | 32.26 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 17:52:39 | 38.39 | 32.59 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:40 | 38.71 | 32.91 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:40 | 39.04 | 33.24 | 962 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:52:40 | 39.37 | 33.57 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 17:52:41 | 39.70 | 33.90 | 965 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 17:52:41 | 40.03 | 34.23 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:52:41 | 40.35 | 34.55 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:52:42 | 40.68 | 34.88 | 968 | 1.66 | 1.29 | 52.9 |
| 4/22/2015 17:52:42 | 41.01 | 35.21 | 968 | 1.66 | 1.29 | 52.9 |
| 4/22/2015 17:52:42 | 41.34 | 35.54 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:43 | 41.67 | 35.87 | 963 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 17:52:43 | 41.99 | 36.19 | 963 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 17:52:43 | 42.32 | 36.52 | 958 | 1.66 | 1.29 | 52.4 |
| 4/22/2015 17:52:44 | 42.65 | 36.85 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:44 | 42.98 | 37.18 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:45 | 43.31 | 37.51 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:52:45 | 43.64 | 37.84 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 17:52:45 | 43.96 | 38.16 | 954 | 1.66 | 1.29 | 52.1 |
| 4/22/2015 17:52:46 | 44.29 | 38.49 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 17:52:46 | 44.62 | 38.82 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 17:52:46 | 44.95 | 39.15 | 966 | 1.66 | 1.29 | 52.8 |
| 4/22/2015 17:52:47 | 45.28 | 39.48 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:52:48 | 45.60 | 39.80 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:52:48 | 45.93 | 40.13 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:52:48 | 46.26 | 40.46 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:52:49 | 46.59 | 40.79 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:52:49 | 46.92 | 41.12 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 17:52:49 | 47.24 | 41.44 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:50 | 47.57 | 41.77 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:50 | 47.90 | 42.10 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 17:52:50 | 48.23 | 42.43 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:51 | 48.56 | 42.76 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:51 | 48.88 | 43.08 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:51 | 49.21 | 43.41 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:52 | 49.54 | 43.74 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:52 | 49.87 | 44.07 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:52 | 50.20 | 44.40 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:53 | 50.53 | 44.73 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:53 | 50.85 | 45.05 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:52:53 | 51.18 | 45.38 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:54 | 51.51 | 45.71 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:54 | 51.84 | 46.04 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:54 | 52.17 | 46.37 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:52:55 | 52.49 | 46.69 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 17:52:55 | 52.82 | 47.02 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 17:52:55 | 53.15 | 47.35 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 17:52:56 | 53.48 | 47.68 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 17:52:56 | 53.81 | 48.01 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 17:52:56 | 54.13 | 48.33 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:57 | 54.46 | 48.66 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:57 | 54.79 | 48.99 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:57 | 55.12 | 49.32 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 17:52:58 | 55.45 | 49.65 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 17:52:59 | 55.77 | 49.97 | 1,003 | 1.66 | 1.29 | 54.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:52:58 | 56.10 | 50.30 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 | 17:52:59 | 56.43 | 50.63 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 | 17:53:10 | 56.76 | 50.96 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 | 17:53:11 | 57.09 | 51.29 | 124 | 1.66 | 1.29 | 6.8 |
| 4/22/2015 | 17:53:12 | 57.41 | 51.61 | 264 | 1.66 | 1.29 | 14.4 |
| 4/22/2015 | 17:53:12 | 57.74 | 51.94 | 408 | 1.66 | 1.29 | 22.3 |
| 4/22/2015 | 17:53:13 | 58.07 | 52.27 | 545 | 1.66 | 1.29 | 29.8 |
| 4/22/2015 | 17:53:13 | 58.40 | 52.60 | 686 | 1.66 | 1.29 | 37.5 |
| 4/22/2015 | 17:53:14 | 58.73 | 52.93 | 704 | 1.66 | 1.29 | 38.5 |
| 4/22/2015 | 17:53:14 | 59.06 | 53.26 | 701 | 1.66 | 1.29 | 38.3 |
| 4/22/2015 | 17:53:15 | 59.38 | 53.58 | 701 | 1.66 | 1.29 | 38.3 |
| 4/22/2015 | 17:53:15 | 59.71 | 53.91 | 692 | 1.66 | 1.29 | 37.9 |
| 4/22/2015 | 17:53:16 | 60.04 | 54.24 | 687 | 1.66 | 1.29 | 37.5 |
| 4/22/2015 | 17:53:16 | 60.37 | 54.57 | 677 | 1.66 | 1.29 | 37.0 |
| 4/22/2015 | 17:53:17 | 60.70 | 54.90 | 675 | 1.66 | 1.29 | 36.9 |
| 4/22/2015 | 17:53:17 | 61.01 | 55.21 | 673 | 1.66 | 1.29 | 36.8 |

## G52 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:50:46

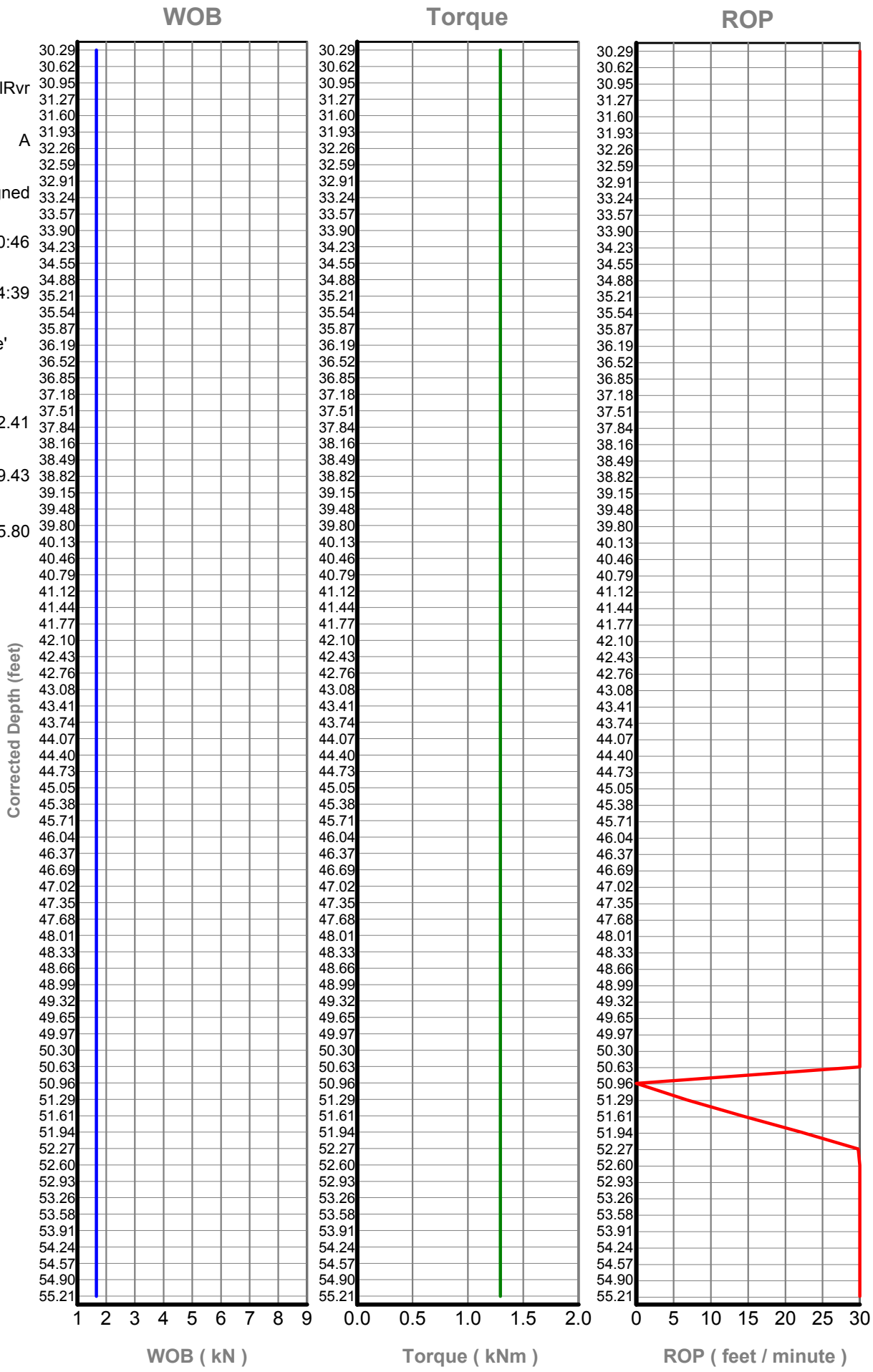
**End Date:**
4/22/2015 17:54:39

**Operator Note:**
'5.8 6.0 b Auto Complete'

**Northing:**
367,182.41

**Easting:**
252,359.43

**Tide (feet):**
5.80



## Hole: G53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:56:23 | 35.76 | 30.06 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:24 | 36.09 | 30.39 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:24 | 36.42 | 30.72 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:24 | 36.75 | 31.05 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:25 | 37.07 | 31.37 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:25 | 37.40 | 31.70 | 1,031 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 17:56:25 | 37.73 | 32.03 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:26 | 38.06 | 32.36 | 1,042 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:26 | 38.39 | 32.69 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 17:56:27 | 38.71 | 33.01 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:27 | 39.04 | 33.34 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:27 | 39.37 | 33.67 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 17:56:28 | 39.70 | 34.00 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 17:56:28 | 40.03 | 34.33 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 17:56:28 | 40.35 | 34.65 | 1,037 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 17:56:29 | 40.68 | 34.98 | 1,043 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:29 | 41.01 | 35.31 | 1,043 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:29 | 41.34 | 35.64 | 1,043 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:30 | 41.67 | 35.97 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 17:56:30 | 41.99 | 36.29 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 17:56:30 | 42.32 | 36.62 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:31 | 42.65 | 36.95 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:31 | 42.98 | 37.28 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:31 | 43.31 | 37.61 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 17:56:32 | 43.64 | 37.94 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 17:56:32 | 43.96 | 38.26 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 17:56:32 | 44.29 | 38.59 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 17:56:33 | 44.62 | 38.92 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 17:56:33 | 44.95 | 39.25 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 17:56:33 | 45.28 | 39.58 | 1,043 | 1.66 | 1.29 | 57.0 |
| 4/22/2015 17:56:34 | 45.60 | 39.90 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 17:56:34 | 45.93 | 40.23 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 17:56:34 | 46.26 | 40.56 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 17:56:35 | 46.59 | 40.89 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 17:56:35 | 46.92 | 41.22 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 17:56:35 | 47.24 | 41.54 | 1,038 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 17:56:36 | 47.57 | 41.87 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 17:56:36 | 47.90 | 42.20 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 17:56:36 | 48.23 | 42.53 | 1,038 | 1.66 | 1.29 | 56.7 |
| 4/22/2015 17:56:37 | 48.56 | 42.86 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:37 | 48.88 | 43.18 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:37 | 49.21 | 43.51 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:38 | 49.54 | 43.84 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:38 | 49.87 | 44.17 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:38 | 50.20 | 44.50 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:39 | 50.53 | 44.83 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:39 | 50.85 | 45.15 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:40 | 51.18 | 45.48 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:40 | 51.51 | 45.81 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 17:56:40 | 51.84 | 46.14 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 17:56:41 | 52.17 | 46.47 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 17:56:41 | 52.49 | 46.79 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 17:56:42 | 52.82 | 47.12 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 17:56:42 | 53.15 | 47.45 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 17:56:42 | 53.48 | 47.78 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:56:43 | 53.81 | 48.11 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 17:56:43 | 54.13 | 48.43 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 17:56:43 | 54.46 | 48.76 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:56:44 | 54.79 | 49.09 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 17:56:44 | 55.12 | 49.42 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 17:56:44 | 55.45 | 49.75 | 1,012 | 1.66 | 1.29 | 55.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:56:45 | 55.77 | 50.07 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 | 17:56:51 | 56.10 | 50.40 | 15 | 1.66 | 1.29 | 0.8 |
| 4/22/2015 | 17:56:51 | 56.43 | 50.73 | 189 | 1.66 | 1.29 | 10.3 |
| 4/22/2015 | 17:56:52 | 56.76 | 51.06 | 357 | 1.66 | 1.29 | 19.5 |
| 4/22/2015 | 17:56:52 | 57.09 | 51.39 | 514 | 1.66 | 1.29 | 28.1 |
| 4/22/2015 | 17:56:53 | 57.41 | 51.71 | 514 | 1.66 | 1.29 | 28.1 |
| 4/22/2015 | 17:56:53 | 57.74 | 52.04 | 676 | 1.66 | 1.29 | 36.9 |
| 4/22/2015 | 17:56:53 | 58.07 | 52.37 | 812 | 1.66 | 1.29 | 44.4 |
| 4/22/2015 | 17:56:54 | 58.40 | 52.70 | 797 | 1.66 | 1.29 | 43.6 |
| 4/22/2015 | 17:56:54 | 58.73 | 53.03 | 781 | 1.66 | 1.29 | 42.7 |
| 4/22/2015 | 17:56:55 | 59.06 | 53.36 | 776 | 1.66 | 1.29 | 42.5 |
| 4/22/2015 | 17:56:55 | 59.38 | 53.68 | 763 | 1.66 | 1.29 | 41.7 |
| 4/22/2015 | 17:56:56 | 59.71 | 54.01 | 765 | 1.66 | 1.29 | 41.8 |
| 4/22/2015 | 17:56:56 | 60.04 | 54.34 | 754 | 1.66 | 1.29 | 41.3 |
| 4/22/2015 | 17:56:57 | 60.37 | 54.67 | 750 | 1.66 | 1.29 | 41.0 |
| 4/22/2015 | 17:56:57 | 60.70 | 55.00 | 747 | 1.66 | 1.29 | 40.9 |
| 4/22/2015 | 17:56:58 | 61.02 | 55.32 | 690 | 1.66 | 1.29 | 37.7 |

## G53 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:55:14

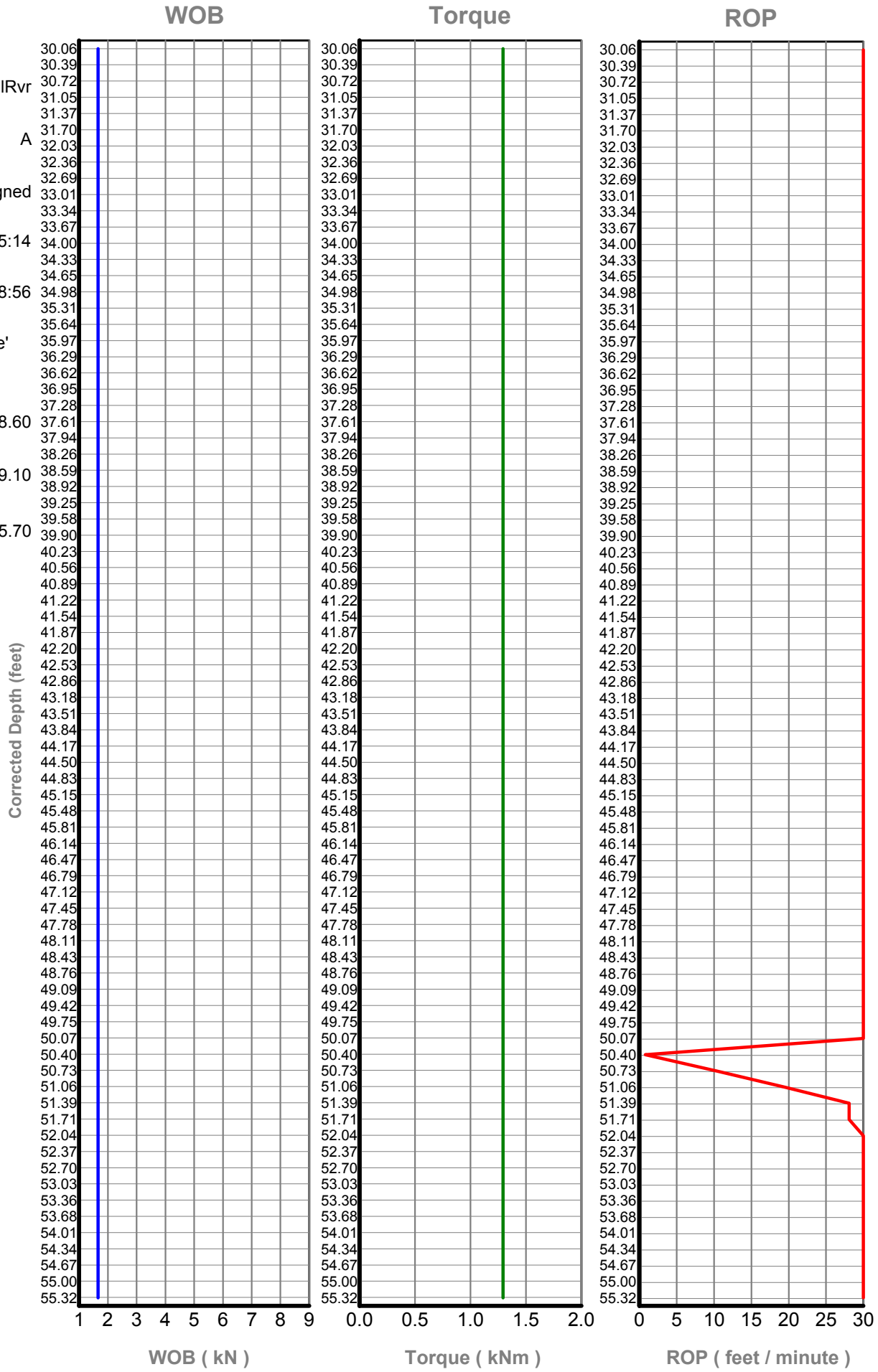
**End Date:**
4/22/2015 17:58:56

**Operator Note:**
'5.7 6.0 b Auto Complete'

**Northing:**
367,228.60

**Easting:**
252,419.10

**Tide (feet):**
5.70



## Hole: G54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:55:06 | 35.76 | 30.06 | 383 | 1.66 | 0.30 | 20.9 |
| 4/22/2015 17:55:07 | 36.09 | 30.39 | 381 | 1.68 | 0.30 | 20.8 |
| 4/22/2015 17:55:08 | 36.42 | 30.72 | 373 | 1.68 | 0.30 | 20.4 |
| 4/22/2015 17:55:09 | 36.75 | 31.05 | 373 | 1.66 | 0.30 | 20.4 |
| 4/22/2015 17:55:10 | 37.07 | 31.37 | 375 | 1.66 | 0.30 | 20.5 |
| 4/22/2015 17:55:11 | 37.40 | 31.70 | 372 | 1.67 | 0.30 | 20.4 |
| 4/22/2015 17:55:12 | 37.73 | 32.03 | 375 | 1.66 | 0.29 | 20.5 |
| 4/22/2015 17:55:13 | 38.06 | 32.36 | 372 | 1.67 | 0.30 | 20.4 |
| 4/22/2015 17:55:14 | 38.39 | 32.69 | 376 | 1.67 | 0.30 | 20.5 |
| 4/22/2015 17:55:15 | 38.71 | 33.01 | 376 | 1.68 | 0.30 | 20.6 |
| 4/22/2015 17:55:16 | 39.04 | 33.34 | 367 | 1.66 | 0.30 | 20.0 |
| 4/22/2015 17:55:17 | 39.37 | 33.67 | 367 | 1.68 | 0.30 | 20.0 |
| 4/22/2015 17:55:18 | 39.70 | 34.00 | 370 | 1.66 | 0.30 | 20.2 |
| 4/22/2015 17:55:19 | 40.03 | 34.33 | 369 | 1.66 | 0.30 | 20.2 |
| 4/22/2015 17:55:20 | 40.35 | 34.65 | 379 | 1.68 | 0.30 | 20.7 |
| 4/22/2015 17:55:21 | 40.68 | 34.98 | 380 | 1.67 | 0.30 | 20.8 |
| 4/22/2015 17:55:21 | 41.01 | 35.31 | 382 | 1.66 | 0.30 | 20.9 |
| 4/22/2015 17:55:22 | 41.34 | 35.64 | 380 | 1.67 | 0.30 | 20.8 |
| 4/22/2015 17:55:23 | 41.67 | 35.97 | 374 | 1.67 | 0.30 | 20.4 |
| 4/22/2015 17:55:24 | 41.99 | 36.29 | 372 | 1.67 | 0.30 | 20.4 |
| 4/22/2015 17:55:26 | 42.32 | 36.62 | 376 | 1.66 | 0.30 | 20.5 |
| 4/22/2015 17:55:26 | 42.65 | 36.95 | 377 | 1.66 | 0.30 | 20.6 |
| 4/22/2015 17:55:27 | 42.98 | 37.28 | 374 | 1.66 | 0.30 | 20.5 |
| 4/22/2015 17:55:28 | 43.31 | 37.61 | 386 | 1.64 | 0.30 | 21.1 |
| 4/22/2015 17:55:29 | 43.64 | 37.94 | 380 | 1.67 | 0.30 | 20.8 |
| 4/22/2015 17:55:30 | 43.96 | 38.26 | 393 | 1.66 | 0.30 | 21.5 |
| 4/22/2015 17:55:31 | 44.29 | 38.59 | 385 | 1.65 | 0.30 | 21.1 |
| 4/22/2015 17:55:32 | 44.62 | 38.92 | 395 | 1.67 | 0.30 | 21.6 |
| 4/22/2015 17:55:33 | 44.95 | 39.25 | 398 | 1.65 | 0.30 | 21.8 |
| 4/22/2015 17:55:33 | 45.28 | 39.58 | 398 | 1.68 | 0.30 | 21.8 |
| 4/22/2015 17:55:35 | 45.60 | 39.90 | 397 | 1.66 | 0.30 | 21.7 |
| 4/22/2015 17:55:36 | 45.93 | 40.23 | 400 | 1.66 | 0.30 | 21.9 |
| 4/22/2015 17:55:36 | 46.26 | 40.56 | 404 | 1.65 | 0.30 | 22.1 |
| 4/22/2015 17:55:37 | 46.59 | 40.89 | 398 | 1.66 | 0.30 | 21.8 |
| 4/22/2015 17:55:38 | 46.92 | 41.22 | 405 | 1.66 | 0.30 | 22.1 |
| 4/22/2015 17:55:39 | 47.24 | 41.54 | 403 | 1.64 | 0.30 | 22.1 |
| 4/22/2015 17:55:40 | 47.57 | 41.87 | 414 | 1.68 | 0.30 | 22.6 |
| 4/22/2015 17:55:41 | 47.90 | 42.20 | 403 | 1.67 | 0.30 | 22.0 |
| 4/22/2015 17:55:42 | 48.23 | 42.53 | 401 | 1.66 | 0.29 | 21.9 |
| 4/22/2015 17:55:42 | 48.56 | 42.86 | 399 | 1.67 | 0.30 | 21.8 |
| 4/22/2015 17:55:43 | 48.88 | 43.18 | 402 | 1.66 | 0.30 | 22.0 |
| 4/22/2015 17:55:44 | 49.21 | 43.51 | 395 | 1.66 | 0.30 | 21.6 |
| 4/22/2015 17:55:45 | 49.54 | 43.84 | 398 | 1.67 | 0.30 | 21.8 |
| 4/22/2015 17:55:46 | 49.87 | 44.17 | 403 | 1.66 | 0.30 | 22.0 |
| 4/22/2015 17:55:47 | 50.20 | 44.50 | 406 | 1.67 | 0.29 | 22.2 |
| 4/22/2015 17:55:48 | 50.53 | 44.83 | 395 | 1.68 | 0.30 | 21.6 |
| 4/22/2015 17:55:49 | 50.85 | 45.15 | 395 | 1.77 | 0.29 | 21.6 |
| 4/22/2015 17:55:50 | 51.18 | 45.48 | 398 | 1.67 | 0.30 | 21.8 |
| 4/22/2015 17:55:51 | 51.51 | 45.81 | 395 | 1.68 | 0.30 | 21.6 |
| 4/22/2015 17:55:51 | 51.84 | 46.14 | 404 | 1.64 | 0.30 | 22.1 |
| 4/22/2015 17:55:52 | 52.17 | 46.47 | 396 | 1.66 | 0.29 | 21.7 |
| 4/22/2015 17:56:07 | 52.49 | 46.79 | 0 | 1.67 | 1.08 | 0.0 |
| 4/22/2015 17:56:08 | 52.82 | 47.12 | 140 | 1.69 | 1.14 | 7.7 |
| 4/22/2015 17:56:09 | 53.15 | 47.45 | 271 | 1.68 | 1.11 | 14.8 |
| 4/22/2015 17:56:10 | 53.48 | 47.78 | 319 | 1.69 | 1.14 | 17.5 |
| 4/22/2015 17:56:11 | 53.81 | 48.11 | 320 | 1.68 | 1.11 | 17.5 |
| 4/22/2015 17:56:13 | 54.13 | 48.43 | 319 | 1.68 | 1.10 | 17.5 |
| 4/22/2015 17:56:14 | 54.46 | 48.76 | 313 | 1.67 | 1.12 | 17.1 |
| 4/22/2015 17:56:15 | 54.79 | 49.09 | 310 | 1.68 | 1.11 | 16.9 |
| 4/22/2015 17:56:16 | 55.12 | 49.42 | 309 | 1.68 | 1.14 | 16.9 |
| 4/22/2015 17:56:17 | 55.45 | 49.75 | 310 | 1.66 | 1.10 | 16.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:56:18 | 55.77 | 50.07 | 316 | 1.68 | 1.11 | 17.3 |
| 4/22/2015 | 17:56:20 | 56.10 | 50.40 | 302 | 1.68 | 1.07 | 16.5 |
| 4/22/2015 | 17:56:21 | 56.43 | 50.73 | 308 | 1.68 | 1.04 | 16.8 |
| 4/22/2015 | 17:56:22 | 56.76 | 51.06 | 303 | 1.67 | 1.01 | 16.6 |
| 4/22/2015 | 17:56:23 | 57.09 | 51.39 | 298 | 1.68 | 1.00 | 16.3 |
| 4/22/2015 | 17:56:24 | 57.41 | 51.71 | 291 | 1.68 | 1.41 | 15.9 |
| 4/22/2015 | 17:56:25 | 57.74 | 52.04 | 283 | 1.68 | 1.04 | 15.5 |
| 4/22/2015 | 17:56:26 | 58.07 | 52.37 | 288 | 1.68 | 0.95 | 15.7 |
| 4/22/2015 | 17:56:28 | 58.40 | 52.70 | 295 | 1.68 | 0.94 | 16.2 |
| 4/22/2015 | 17:56:29 | 58.73 | 53.03 | 298 | 1.66 | 0.92 | 16.3 |
| 4/22/2015 | 17:56:30 | 59.06 | 53.36 | 303 | 1.68 | 0.94 | 16.6 |
| 4/22/2015 | 17:56:31 | 59.38 | 53.68 | 301 | 1.68 | 0.94 | 16.5 |
| 4/22/2015 | 17:56:33 | 59.71 | 54.01 | 296 | 1.68 | 0.93 | 16.2 |
| 4/22/2015 | 17:56:34 | 60.04 | 54.34 | 294 | 1.68 | 0.94 | 16.1 |
| 4/22/2015 | 17:56:35 | 60.37 | 54.67 | 289 | 1.67 | 0.94 | 15.8 |
| 4/22/2015 | 17:56:36 | 60.70 | 55.00 | 284 | 1.66 | 0.95 | 15.5 |
| 4/22/2015 | 17:56:38 | 61.02 | 55.32 | 294 | 1.68 | 0.95 | 16.1 |
| 4/22/2015 | 17:56:38 | 61.08 | 55.38 | 290 | 1.57 | 0.95 | 15.9 |

## G54 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:52:29

**End Date:**
4/22/2015 17:58:25

**Operator Note:**
'5.7 6.0 C Auto Complete'

**Northing:**
367,274.58

**Easting:**
252,478.42

**Tide (feet):**
5.70



## Hole: G55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:20:28 | 36.75 | 30.15 | 955 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 16:20:29 | 37.07 | 30.47 | 948 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 16:20:29 | 37.40 | 30.80 | 948 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 16:20:29 | 37.73 | 31.13 | 940 | 1.66 | 1.29 | 51.4 |
| 4/22/2015 16:20:30 | 38.06 | 31.46 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 16:20:30 | 38.39 | 31.79 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 16:20:31 | 38.71 | 32.11 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 16:20:31 | 39.04 | 32.44 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 16:20:32 | 39.37 | 32.77 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 16:20:32 | 39.70 | 33.10 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 16:20:32 | 40.03 | 33.43 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 16:20:33 | 40.35 | 33.75 | 954 | 1.66 | 1.29 | 52.1 |
| 4/22/2015 16:20:33 | 40.68 | 34.08 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 16:20:34 | 41.01 | 34.41 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 16:20:34 | 41.34 | 34.74 | 959 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 16:20:34 | 41.67 | 35.07 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 16:20:35 | 41.99 | 35.39 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 16:20:35 | 42.32 | 35.72 | 956 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 16:20:35 | 42.65 | 36.05 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 16:20:36 | 42.98 | 36.38 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 16:20:36 | 43.31 | 36.71 | 945 | 1.66 | 1.29 | 51.7 |
| 4/22/2015 16:20:36 | 43.64 | 37.04 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 16:20:37 | 43.96 | 37.36 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 16:20:37 | 44.29 | 37.69 | 946 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 16:20:38 | 44.62 | 38.02 | 946 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 16:20:38 | 44.95 | 38.35 | 952 | 1.66 | 1.29 | 52.1 |
| 4/22/2015 16:20:38 | 45.28 | 38.68 | 949 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 16:20:39 | 45.60 | 39.00 | 949 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 16:20:39 | 45.93 | 39.33 | 964 | 1.66 | 1.29 | 52.7 |
| 4/22/2015 16:20:39 | 46.26 | 39.66 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 16:20:40 | 46.59 | 39.99 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 16:20:40 | 46.92 | 40.32 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 16:20:40 | 47.24 | 40.64 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 16:20:41 | 47.57 | 40.97 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 16:20:41 | 47.90 | 41.30 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 16:20:41 | 48.23 | 41.63 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 16:20:42 | 48.56 | 41.96 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 16:20:42 | 48.88 | 42.28 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 16:20:42 | 49.21 | 42.61 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:20:43 | 49.54 | 42.94 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 16:20:44 | 49.87 | 43.27 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 16:20:44 | 50.20 | 43.60 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:20:44 | 50.53 | 43.93 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:20:45 | 50.85 | 44.25 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:20:45 | 51.18 | 44.58 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:20:45 | 51.51 | 44.91 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 16:20:46 | 51.84 | 45.24 | 1,012 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 16:20:46 | 52.17 | 45.57 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:20:46 | 52.49 | 45.89 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:20:47 | 52.82 | 46.22 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:20:47 | 53.15 | 46.55 | 992 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 16:20:47 | 53.48 | 46.88 | 992 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 16:20:48 | 53.81 | 47.21 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 16:20:48 | 54.13 | 47.53 | 1,004 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 16:20:48 | 54.46 | 47.86 | 993 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 16:20:49 | 54.79 | 48.19 | 993 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 16:20:53 | 55.12 | 48.52 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 16:20:54 | 55.45 | 48.85 | 125 | 1.66 | 1.29 | 6.9 |
| 4/22/2015 16:20:55 | 55.77 | 49.17 | 261 | 1.66 | 1.29 | 14.3 |
| 4/22/2015 16:20:56 | 56.10 | 49.50 | 357 | 1.66 | 1.29 | 19.5 |
| 4/22/2015 16:20:57 | 56.43 | 49.83 | 354 | 1.66 | 1.29 | 19.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:20:57 | 56.76 | 50.16 | 433 | 1.66 | 1.29 | 23.7 |
| 4/22/2015 | 16:20:58 | 57.09 | 50.49 | 522 | 1.66 | 1.29 | 28.5 |
| 4/22/2015 | 16:20:58 | 57.41 | 50.81 | 627 | 1.66 | 1.29 | 34.3 |
| 4/22/2015 | 16:20:59 | 57.74 | 51.14 | 627 | 1.66 | 1.29 | 34.3 |
| 4/22/2015 | 16:20:59 | 58.07 | 51.47 | 754 | 1.66 | 1.29 | 41.2 |
| 4/22/2015 | 16:20:59 | 58.40 | 51.80 | 800 | 1.66 | 1.29 | 43.7 |
| 4/22/2015 | 16:21:00 | 58.73 | 52.13 | 800 | 1.66 | 1.29 | 43.7 |
| 4/22/2015 | 16:21:00 | 59.06 | 52.46 | 815 | 1.66 | 1.29 | 44.6 |
| 4/22/2015 | 16:21:01 | 59.38 | 52.78 | 835 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 | 16:21:01 | 59.71 | 53.11 | 835 | 1.66 | 1.29 | 45.7 |
| 4/22/2015 | 16:21:01 | 60.04 | 53.44 | 855 | 1.66 | 1.29 | 46.7 |
| 4/22/2015 | 16:21:02 | 60.37 | 53.77 | 833 | 1.66 | 1.29 | 45.6 |
| 4/22/2015 | 16:21:03 | 60.70 | 54.10 | 496 | 1.66 | 1.29 | 27.1 |
| 4/22/2015 | 16:21:04 | 61.02 | 54.42 | 473 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 | 16:21:04 | 61.35 | 54.75 | 480 | 1.66 | 1.29 | 26.2 |
| 4/22/2015 | 16:21:04 | 61.67 | 55.07 | 480 | 1.66 | 1.29 | 26.2 |

## G55 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:18:04

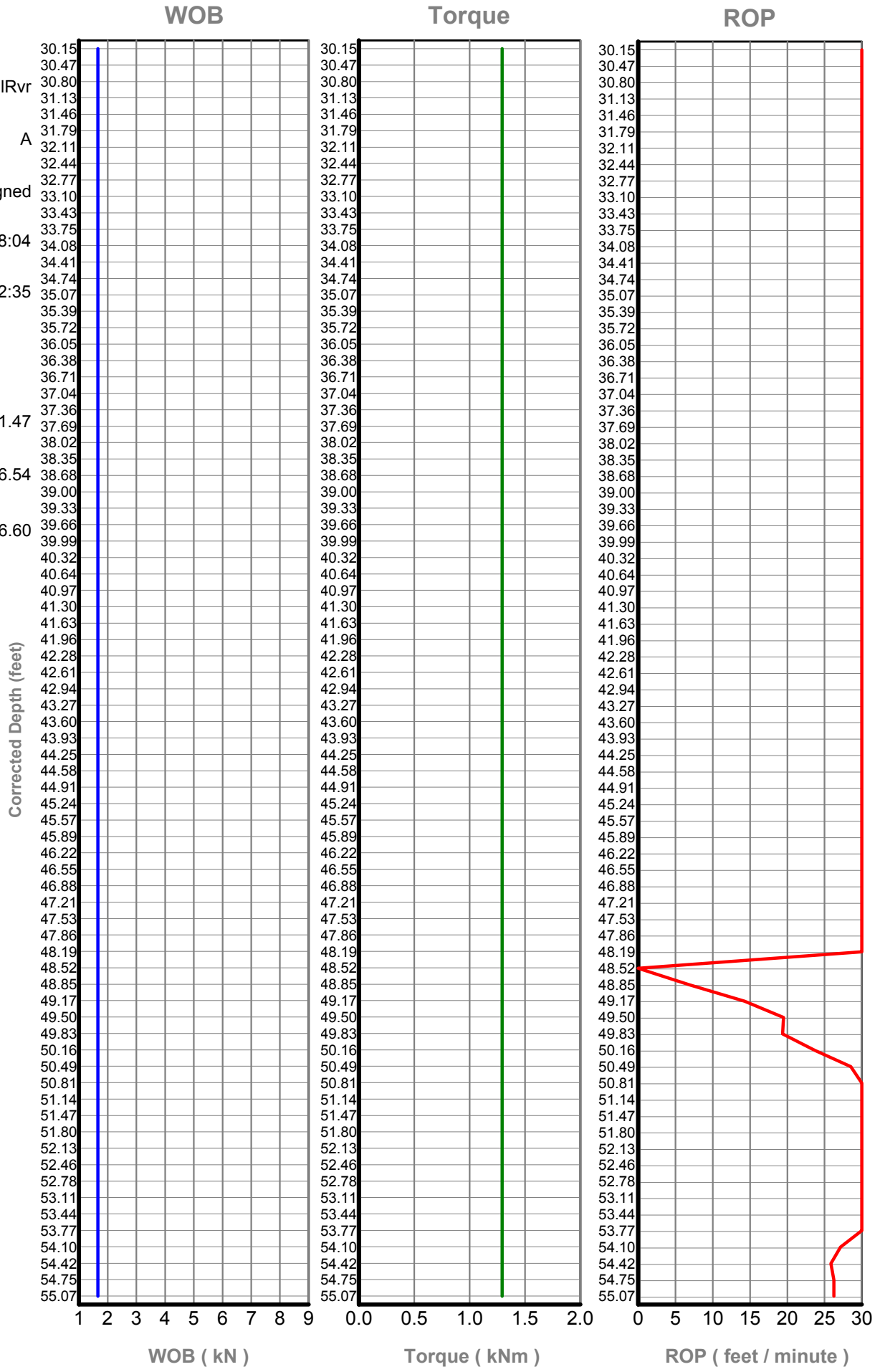
**End Date:**
4/22/2015 16:22:35

**Operator Note:**
'6.6 6.5 B Auto Complete'

**Northing:**
367,321.47

**Easting:**
252,546.54

**Tide (feet):**
6.60



## Hole: G56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:24:48 | 36.75 | 30.25 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 16:24:48 | 37.07 | 30.57 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:24:49 | 37.40 | 30.90 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:24:49 | 37.73 | 31.23 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:24:49 | 38.06 | 31.56 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 16:24:50 | 38.39 | 31.89 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 16:24:50 | 38.71 | 32.21 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 16:24:50 | 39.04 | 32.54 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 16:24:51 | 39.37 | 32.87 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 16:24:51 | 39.70 | 33.20 | 994 | 1.66 | 1.29 | 54.3 |
| 4/22/2015 16:24:51 | 40.03 | 33.53 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 16:24:52 | 40.35 | 33.85 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 16:24:52 | 40.68 | 34.18 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:24:52 | 41.01 | 34.51 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:24:53 | 41.34 | 34.84 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:24:53 | 41.67 | 35.17 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:24:53 | 41.99 | 35.49 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:24:54 | 42.32 | 35.82 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:24:54 | 42.65 | 36.15 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:24:54 | 42.98 | 36.48 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:24:55 | 43.31 | 36.81 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:24:55 | 43.64 | 37.14 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:24:55 | 43.96 | 37.46 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:24:56 | 44.29 | 37.79 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:24:56 | 44.62 | 38.12 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 16:24:56 | 44.95 | 38.45 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:24:57 | 45.28 | 38.78 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:24:57 | 45.60 | 39.10 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:24:57 | 45.93 | 39.43 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:24:58 | 46.26 | 39.76 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:24:58 | 46.59 | 40.09 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:24:59 | 46.92 | 40.42 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:24:59 | 47.24 | 40.74 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:24:59 | 47.57 | 41.07 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:25:00 | 47.90 | 41.40 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 16:25:00 | 48.23 | 41.73 | 1,061 | 1.66 | 1.29 | 58.0 |
| 4/22/2015 16:25:00 | 48.56 | 42.06 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:25:01 | 48.88 | 42.38 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:25:01 | 49.21 | 42.71 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:25:01 | 49.54 | 43.04 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:25:02 | 49.87 | 43.37 | 1,057 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:25:02 | 50.20 | 43.70 | 1,057 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:25:02 | 50.53 | 44.03 | 1,063 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 16:25:03 | 50.85 | 44.35 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:25:03 | 51.18 | 44.68 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:25:03 | 51.51 | 45.01 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:25:04 | 51.84 | 45.34 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:25:04 | 52.17 | 45.67 | 1,074 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 16:25:04 | 52.49 | 45.99 | 1,074 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 16:25:05 | 52.82 | 46.32 | 1,074 | 1.66 | 1.29 | 58.8 |
| 4/22/2015 16:25:05 | 53.15 | 46.65 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 16:25:05 | 53.48 | 46.98 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:25:06 | 53.81 | 47.31 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:25:06 | 54.13 | 47.63 | 1,071 | 1.66 | 1.29 | 58.6 |
| 4/22/2015 16:25:06 | 54.46 | 47.96 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:25:07 | 54.79 | 48.29 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:25:07 | 55.12 | 48.62 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:25:07 | 55.45 | 48.95 | 1,028 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 16:25:08 | 55.77 | 49.27 | 1,028 | 1.66 | 1.29 | 56.2 |
| 4/22/2015 16:25:17 | 56.10 | 49.60 | 29 | 1.66 | 1.29 | 1.6 |
| 4/22/2015 16:25:18 | 56.43 | 49.93 | 122 | 1.66 | 1.29 | 6.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:25:18 | 56.76 | 50.26 | 211 | 1.66 | 1.29 | 11.5 |
| 4/22/2015 | 16:25:19 | 57.09 | 50.59 | 363 | 1.66 | 1.29 | 19.9 |
| 4/22/2015 | 16:25:19 | 57.41 | 50.91 | 490 | 1.66 | 1.29 | 26.8 |
| 4/22/2015 | 16:25:20 | 57.74 | 51.24 | 490 | 1.66 | 1.29 | 26.8 |
| 4/22/2015 | 16:25:20 | 58.07 | 51.57 | 613 | 1.66 | 1.29 | 33.5 |
| 4/22/2015 | 16:25:21 | 58.40 | 51.90 | 613 | 1.66 | 1.29 | 33.5 |
| 4/22/2015 | 16:25:21 | 58.73 | 52.23 | 744 | 1.66 | 1.29 | 40.7 |
| 4/22/2015 | 16:25:22 | 59.06 | 52.56 | 826 | 1.66 | 1.29 | 45.2 |
| 4/22/2015 | 16:25:22 | 59.38 | 52.88 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 | 16:25:23 | 59.71 | 53.21 | 839 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 | 16:25:23 | 60.04 | 53.54 | 856 | 1.66 | 1.29 | 46.8 |
| 4/22/2015 | 16:25:24 | 60.37 | 53.87 | 856 | 1.66 | 1.29 | 46.8 |
| 4/22/2015 | 16:25:24 | 60.70 | 54.20 | 843 | 1.66 | 1.29 | 46.1 |
| 4/22/2015 | 16:25:24 | 61.02 | 54.52 | 848 | 1.66 | 1.29 | 46.4 |
| 4/22/2015 | 16:25:25 | 61.35 | 54.85 | 840 | 1.66 | 1.29 | 45.9 |
| 4/22/2015 | 16:25:25 | 61.68 | 55.18 | 842 | 1.66 | 1.29 | 46.0 |

## G56 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:23:14

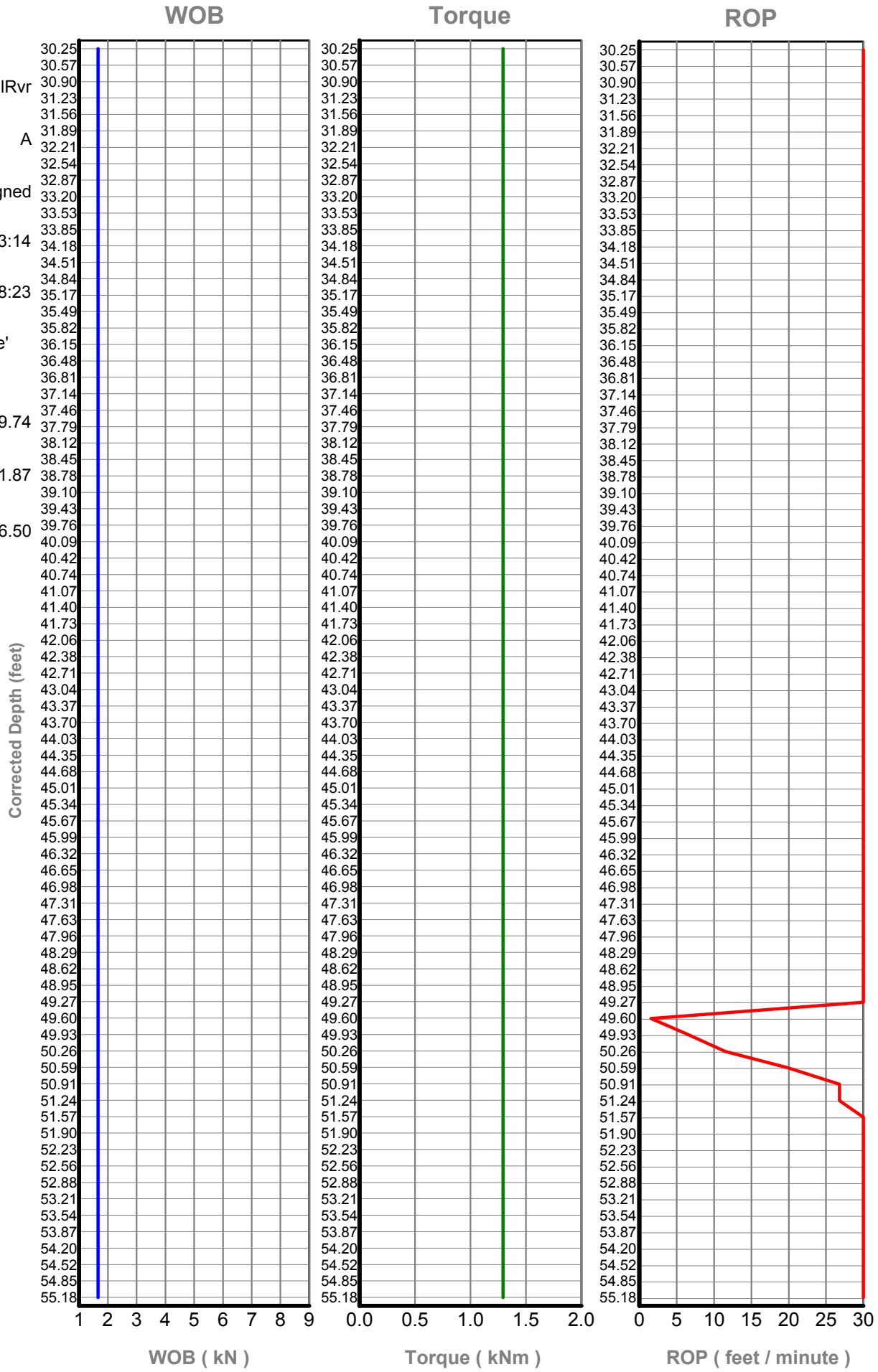
**End Date:**
4/22/2015 16:28:23

**Operator Note:**
'6.5 6.6 b Auto Complete'

**Northing:**
367,359.74

**Easting:**
252,591.87

**Tide (feet):**
6.50



## Hole: G58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:22:14 | 36.75 | 30.15 | 532 | 1.76 | 0.29 | 29.1 |
| 4/22/2015 16:22:15 | 37.07 | 30.47 | 529 | 1.70 | 0.29 | 28.9 |
| 4/22/2015 16:22:15 | 37.40 | 30.80 | 529 | 1.72 | 0.29 | 28.9 |
| 4/22/2015 16:22:16 | 37.73 | 31.13 | 532 | 1.73 | 0.29 | 29.1 |
| 4/22/2015 16:22:17 | 38.06 | 31.46 | 518 | 1.71 | 0.28 | 28.3 |
| 4/22/2015 16:22:17 | 38.39 | 31.79 | 526 | 1.68 | 0.29 | 28.8 |
| 4/22/2015 16:22:18 | 38.71 | 32.11 | 526 | 1.71 | 0.29 | 28.8 |
| 4/22/2015 16:22:18 | 39.04 | 32.44 | 529 | 1.72 | 0.29 | 28.9 |
| 4/22/2015 16:22:19 | 39.37 | 32.77 | 537 | 1.70 | 0.28 | 29.4 |
| 4/22/2015 16:22:20 | 39.70 | 33.10 | 532 | 1.98 | 0.29 | 29.1 |
| 4/22/2015 16:22:20 | 40.03 | 33.43 | 529 | 1.72 | 0.29 | 28.9 |
| 4/22/2015 16:22:21 | 40.35 | 33.75 | 532 | 1.70 | 0.29 | 29.1 |
| 4/22/2015 16:22:22 | 40.68 | 34.08 | 529 | 1.69 | 0.29 | 28.9 |
| 4/22/2015 16:22:22 | 41.01 | 34.41 | 532 | 1.68 | 0.28 | 29.1 |
| 4/22/2015 16:22:23 | 41.34 | 34.74 | 529 | 1.70 | 0.28 | 28.9 |
| 4/22/2015 16:22:24 | 41.67 | 35.07 | 529 | 1.72 | 0.29 | 28.9 |
| 4/22/2015 16:22:25 | 41.99 | 35.39 | 526 | 1.72 | 0.28 | 28.8 |
| 4/22/2015 16:22:25 | 42.32 | 35.72 | 523 | 1.72 | 0.28 | 28.6 |
| 4/22/2015 16:22:26 | 42.65 | 36.05 | 526 | 1.73 | 0.28 | 28.8 |
| 4/22/2015 16:22:27 | 42.98 | 36.38 | 520 | 1.69 | 0.29 | 28.4 |
| 4/22/2015 16:22:27 | 43.31 | 36.71 | 520 | 1.70 | 0.28 | 28.4 |
| 4/22/2015 16:22:28 | 43.64 | 37.04 | 523 | 1.67 | 0.28 | 28.6 |
| 4/22/2015 16:22:29 | 43.96 | 37.36 | 524 | 1.70 | 0.28 | 28.6 |
| 4/22/2015 16:22:29 | 44.29 | 37.69 | 530 | 1.71 | 0.28 | 29.0 |
| 4/22/2015 16:22:30 | 44.62 | 38.02 | 533 | 1.71 | 0.29 | 29.1 |
| 4/22/2015 16:22:31 | 44.95 | 38.35 | 527 | 1.72 | 0.28 | 28.8 |
| 4/22/2015 16:22:31 | 45.28 | 38.68 | 526 | 1.71 | 0.28 | 28.8 |
| 4/22/2015 16:22:32 | 45.60 | 39.00 | 526 | 1.68 | 0.28 | 28.8 |
| 4/22/2015 16:22:33 | 45.93 | 39.33 | 523 | 1.70 | 0.28 | 28.6 |
| 4/22/2015 16:22:33 | 46.26 | 39.66 | 523 | 1.71 | 0.28 | 28.6 |
| 4/22/2015 16:22:34 | 46.59 | 39.99 | 526 | 1.72 | 0.28 | 28.8 |
| 4/22/2015 16:22:35 | 46.92 | 40.32 | 523 | 1.72 | 0.29 | 28.6 |
| 4/22/2015 16:22:36 | 47.24 | 40.64 | 523 | 1.70 | 0.28 | 28.6 |
| 4/22/2015 16:22:36 | 47.57 | 40.97 | 523 | 1.71 | 0.28 | 28.6 |
| 4/22/2015 16:22:37 | 47.90 | 41.30 | 523 | 1.69 | 0.27 | 28.6 |
| 4/22/2015 16:22:38 | 48.23 | 41.63 | 523 | 1.70 | 0.29 | 28.6 |
| 4/22/2015 16:22:38 | 48.56 | 41.96 | 523 | 1.73 | 0.28 | 28.6 |
| 4/22/2015 16:22:39 | 48.88 | 42.28 | 512 | 1.71 | 0.29 | 28.0 |
| 4/22/2015 16:22:40 | 49.21 | 42.61 | 517 | 1.69 | 0.29 | 28.3 |
| 4/22/2015 16:22:40 | 49.54 | 42.94 | 517 | 1.70 | 0.28 | 28.3 |
| 4/22/2015 16:22:41 | 49.87 | 43.27 | 520 | 1.70 | 0.28 | 28.4 |
| 4/22/2015 16:22:42 | 50.20 | 43.60 | 531 | 1.71 | 0.28 | 29.1 |
| 4/22/2015 16:22:42 | 50.53 | 43.93 | 523 | 1.72 | 0.28 | 28.6 |
| 4/22/2015 16:22:43 | 50.85 | 44.25 | 523 | 1.72 | 0.28 | 28.6 |
| 4/22/2015 16:22:44 | 51.18 | 44.58 | 524 | 1.72 | 0.28 | 28.6 |
| 4/22/2015 16:22:44 | 51.51 | 44.91 | 512 | 1.74 | 0.28 | 28.0 |
| 4/22/2015 16:22:45 | 51.84 | 45.24 | 512 | 1.71 | 0.28 | 28.0 |
| 4/22/2015 16:22:46 | 52.17 | 45.57 | 515 | 1.72 | 0.28 | 28.2 |
| 4/22/2015 16:22:47 | 52.49 | 45.89 | 515 | 1.73 | 0.28 | 28.2 |
| 4/22/2015 16:22:47 | 52.82 | 46.22 | 515 | 1.72 | 0.28 | 28.2 |
| 4/22/2015 16:22:48 | 53.15 | 46.55 | 520 | 1.72 | 0.29 | 28.5 |
| 4/22/2015 16:22:49 | 53.48 | 46.88 | 520 | 1.72 | 0.28 | 28.5 |
| 4/22/2015 16:22:49 | 53.81 | 47.21 | 520 | 1.71 | 0.29 | 28.5 |
| 4/22/2015 16:22:50 | 54.13 | 47.53 | 517 | 1.71 | 0.28 | 28.3 |
| 4/22/2015 16:22:51 | 54.46 | 47.86 | 512 | 1.68 | 0.28 | 28.0 |
| 4/22/2015 16:22:51 | 54.79 | 48.19 | 515 | 1.70 | 0.29 | 28.1 |
| 4/22/2015 16:22:52 | 55.12 | 48.52 | 497 | 1.70 | 0.29 | 27.2 |
| 4/22/2015 16:22:53 | 55.45 | 48.85 | 472 | 1.70 | 0.29 | 25.8 |
| 4/22/2015 16:22:54 | 55.77 | 49.17 | 464 | 1.70 | 0.28 | 25.4 |
| 4/22/2015 16:22:55 | 56.10 | 49.50 | 421 | 1.68 | 0.28 | 23.0 |
| 4/22/2015 16:22:56 | 56.43 | 49.83 | 412 | 1.68 | 0.29 | 22.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:22:57 | 56.76 | 50.16 | 396 | 1.72 | 0.29 | 21.7 |
| 4/22/2015 | 16:22:58 | 57.09 | 50.49 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 | 16:22:59 | 57.41 | 50.81 | 364 | 1.62 | 0.29 | 19.9 |
| 4/22/2015 | 16:23:27 | 57.74 | 51.14 | 0 | 1.70 | 0.92 | 0.0 |
| 4/22/2015 | 16:23:28 | 58.07 | 51.47 | 140 | 1.69 | 0.93 | 7.7 |
| 4/22/2015 | 16:23:28 | 58.40 | 51.80 | 219 | 1.68 | 0.92 | 12.0 |
| 4/22/2015 | 16:23:29 | 58.73 | 52.13 | 293 | 1.70 | 0.93 | 16.0 |
| 4/22/2015 | 16:23:30 | 59.06 | 52.46 | 368 | 1.68 | 0.92 | 20.1 |
| 4/22/2015 | 16:23:31 | 59.38 | 52.78 | 366 | 1.68 | 0.92 | 20.0 |
| 4/22/2015 | 16:23:32 | 59.71 | 53.11 | 349 | 1.69 | 0.92 | 19.1 |
| 4/22/2015 | 16:23:33 | 60.04 | 53.44 | 348 | 1.68 | 0.94 | 19.1 |
| 4/22/2015 | 16:23:34 | 60.37 | 53.77 | 333 | 1.70 | 0.92 | 18.2 |
| 4/22/2015 | 16:23:35 | 60.70 | 54.10 | 341 | 1.69 | 0.92 | 18.7 |
| 4/22/2015 | 16:23:36 | 61.02 | 54.42 | 344 | 1.69 | 0.93 | 18.8 |
| 4/22/2015 | 16:23:40 | 61.35 | 54.75 | 119 | 1.69 | 1.15 | 6.5 |
| 4/22/2015 | 16:23:41 | 61.48 | 54.88 | 99 | 1.70 | 1.50 | 5.4 |

## G58 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:19:52

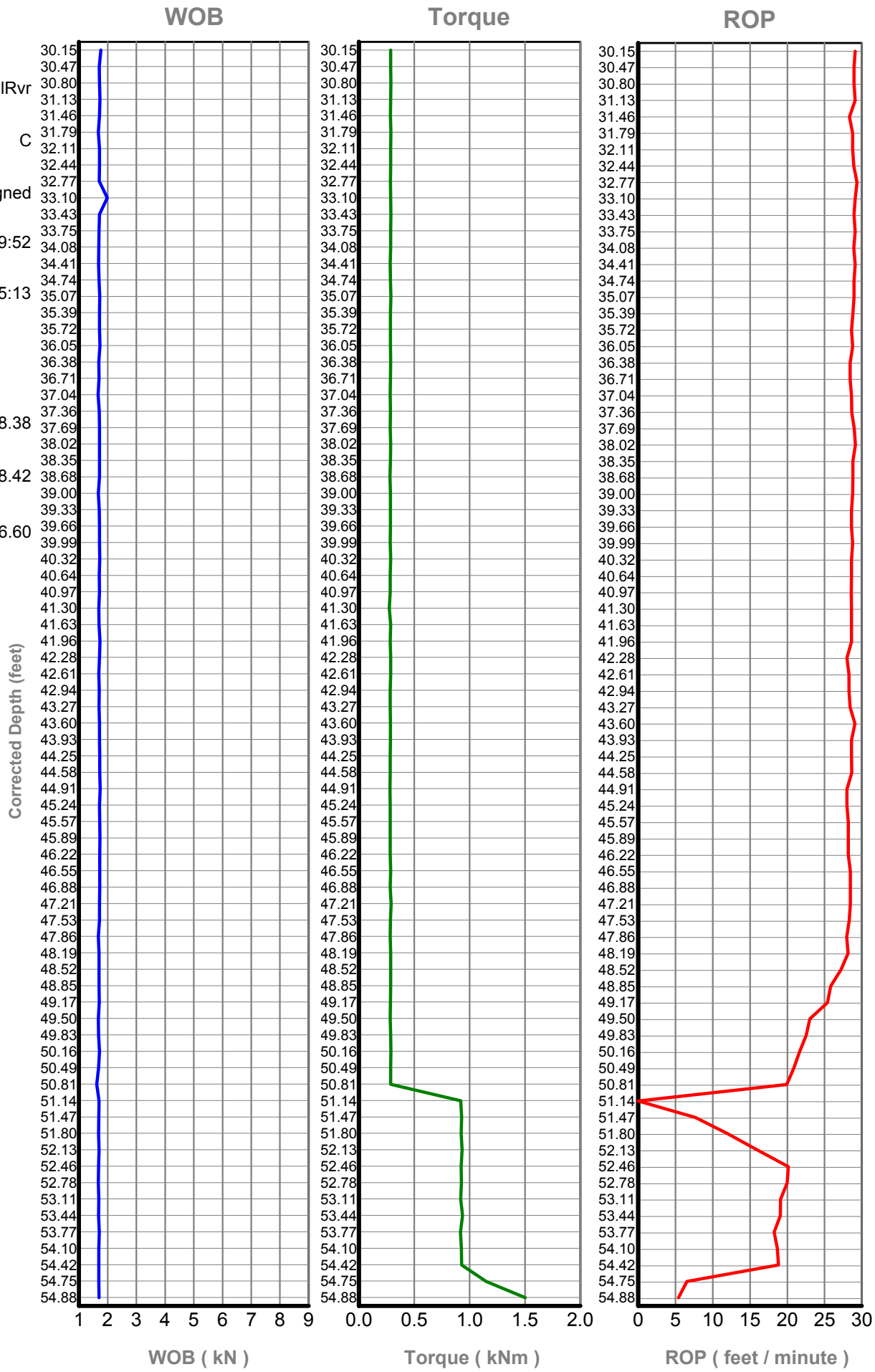
**End Date:**
4/22/2015 16:25:13

**Operator Note:**
'6.6 6.5 C Auto Complete'

**Northing:**
367,408.38

**Easting:**
252,648.42

**Tide (feet):**
6.60



## Hole: G59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:37:30 | 33.14 | 30.14 | 842 | 0.41 | 0.33 | 46.1 |
| 4/23/2015 8:37:31 | 33.46 | 30.46 | 855 | 0.41 | 0.33 | 46.8 |
| 4/23/2015 8:37:31 | 33.79 | 30.79 | 844 | 0.41 | 0.34 | 46.2 |
| 4/23/2015 8:37:32 | 34.12 | 31.12 | 839 | 0.41 | 0.34 | 45.9 |
| 4/23/2015 8:37:32 | 34.45 | 31.45 | 838 | 0.41 | 0.33 | 45.8 |
| 4/23/2015 8:37:33 | 34.78 | 31.78 | 838 | 0.41 | 0.33 | 45.8 |
| 4/23/2015 8:37:33 | 35.11 | 32.11 | 841 | 0.40 | 0.34 | 46.0 |
| 4/23/2015 8:37:33 | 35.43 | 32.43 | 838 | 0.40 | 0.33 | 45.8 |
| 4/23/2015 8:37:34 | 35.76 | 32.76 | 841 | 0.40 | 0.33 | 46.0 |
| 4/23/2015 8:37:34 | 36.09 | 33.09 | 835 | 0.40 | 0.33 | 45.7 |
| 4/23/2015 8:37:35 | 36.42 | 33.42 | 835 | 0.40 | 0.33 | 45.7 |
| 4/23/2015 8:37:35 | 36.75 | 33.75 | 835 | 0.40 | 0.34 | 45.7 |
| 4/23/2015 8:37:36 | 37.07 | 34.07 | 835 | 0.40 | 0.33 | 45.7 |
| 4/23/2015 8:37:36 | 37.40 | 34.40 | 833 | 0.42 | 0.33 | 45.6 |
| 4/23/2015 8:37:37 | 37.73 | 34.73 | 838 | 0.41 | 0.33 | 45.8 |
| 4/23/2015 8:37:37 | 38.06 | 35.06 | 844 | 0.41 | 0.33 | 46.2 |
| 4/23/2015 8:37:38 | 38.39 | 35.39 | 844 | 0.41 | 0.33 | 46.2 |
| 4/23/2015 8:37:38 | 38.71 | 35.71 | 847 | 0.41 | 0.33 | 46.3 |
| 4/23/2015 8:37:38 | 39.04 | 36.04 | 844 | 0.41 | 0.33 | 46.2 |
| 4/23/2015 8:37:39 | 39.37 | 36.37 | 847 | 0.42 | 0.33 | 46.3 |
| 4/23/2015 8:37:39 | 39.70 | 36.70 | 847 | 0.42 | 0.33 | 46.3 |
| 4/23/2015 8:37:40 | 40.03 | 37.03 | 847 | 0.42 | 0.33 | 46.3 |
| 4/23/2015 8:37:40 | 40.35 | 37.35 | 847 | 0.40 | 0.33 | 46.3 |
| 4/23/2015 8:37:40 | 40.68 | 37.68 | 849 | 0.40 | 0.33 | 46.4 |
| 4/23/2015 8:37:41 | 41.01 | 38.01 | 842 | 0.41 | 0.33 | 46.0 |
| 4/23/2015 8:37:41 | 41.34 | 38.34 | 844 | 0.39 | 0.33 | 46.2 |
| 4/23/2015 8:37:42 | 41.67 | 38.67 | 844 | 0.39 | 0.33 | 46.2 |
| 4/23/2015 8:37:42 | 41.99 | 38.99 | 846 | 0.39 | 0.33 | 46.3 |
| 4/23/2015 8:37:42 | 42.32 | 39.32 | 844 | 0.39 | 0.33 | 46.2 |
| 4/23/2015 8:37:43 | 42.65 | 39.65 | 839 | 0.38 | 0.33 | 45.9 |
| 4/23/2015 8:37:43 | 42.98 | 39.98 | 847 | 0.39 | 0.33 | 46.3 |
| 4/23/2015 8:37:44 | 43.31 | 40.31 | 847 | 0.39 | 0.33 | 46.3 |
| 4/23/2015 8:37:44 | 43.64 | 40.64 | 844 | 0.39 | 0.32 | 46.2 |
| 4/23/2015 8:37:44 | 43.96 | 40.96 | 847 | 0.38 | 0.34 | 46.3 |
| 4/23/2015 8:37:45 | 44.29 | 41.29 | 847 | 0.37 | 0.33 | 46.3 |
| 4/23/2015 8:37:46 | 44.62 | 41.62 | 853 | 0.34 | 0.32 | 46.6 |
| 4/23/2015 8:37:46 | 44.95 | 41.95 | 853 | 0.34 | 0.32 | 46.6 |
| 4/23/2015 8:37:46 | 45.28 | 42.28 | 862 | 0.36 | 0.33 | 47.1 |
| 4/23/2015 8:37:47 | 45.60 | 42.60 | 864 | 0.37 | 0.33 | 47.3 |
| 4/23/2015 8:37:47 | 45.93 | 42.93 | 860 | 0.34 | 0.33 | 47.0 |
| 4/23/2015 8:37:48 | 46.26 | 43.26 | 867 | 0.33 | 0.33 | 47.4 |
| 4/23/2015 8:37:48 | 46.59 | 43.59 | 867 | 0.33 | 0.33 | 47.4 |
| 4/23/2015 8:37:48 | 46.92 | 43.92 | 870 | 0.33 | 0.32 | 47.6 |
| 4/23/2015 8:37:49 | 47.24 | 44.24 | 870 | 0.33 | 0.33 | 47.6 |
| 4/23/2015 8:37:49 | 47.57 | 44.57 | 866 | 0.33 | 0.33 | 47.4 |
| 4/23/2015 8:37:50 | 47.90 | 44.90 | 866 | 0.33 | 0.33 | 47.4 |
| 4/23/2015 8:37:50 | 48.23 | 45.23 | 889 | 0.33 | 0.33 | 48.6 |
| 4/23/2015 8:37:50 | 48.56 | 45.56 | 892 | 0.33 | 0.33 | 48.8 |
| 4/23/2015 8:37:51 | 48.88 | 45.88 | 898 | 0.33 | 0.33 | 49.1 |
| 4/23/2015 8:37:51 | 49.21 | 46.21 | 892 | 0.33 | 0.33 | 48.8 |
| 4/23/2015 8:37:52 | 49.54 | 46.54 | 892 | 0.33 | 0.33 | 48.8 |
| 4/23/2015 8:37:52 | 49.87 | 46.87 | 913 | 0.33 | 0.33 | 49.9 |
| 4/23/2015 8:37:52 | 50.20 | 47.20 | 899 | 0.32 | 0.35 | 49.2 |
| 4/23/2015 8:38:01 | 50.53 | 47.53 | 0 | 2.39 | 0.33 | 0.0 |
| 4/23/2015 8:38:02 | 50.85 | 47.85 | 42 | 2.36 | 0.32 | 2.3 |
| 4/23/2015 8:38:02 | 51.18 | 48.18 | 210 | 2.35 | 0.33 | 11.5 |
| 4/23/2015 8:38:03 | 51.51 | 48.51 | 386 | 2.65 | 0.34 | 21.1 |
| 4/23/2015 8:38:03 | 51.84 | 48.84 | 551 | 2.52 | 0.34 | 30.1 |
| 4/23/2015 8:38:04 | 52.17 | 49.17 | 697 | 2.55 | 0.33 | 38.1 |
| 4/23/2015 8:38:04 | 52.49 | 49.49 | 697 | 2.55 | 0.33 | 38.1 |
| 4/23/2015 8:38:04 | 52.82 | 49.82 | 818 | 2.36 | 0.34 | 44.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:38:05 | 53.15 | 50.15 | 814 | 2.36 | 0.34 | 44.5 |
| 4/23/2015 | 8:38:05 | 53.48 | 50.48 | 792 | 2.32 | 0.33 | 43.3 |
| 4/23/2015 | 8:38:06 | 53.81 | 50.81 | 787 | 2.36 | 0.33 | 43.1 |
| 4/23/2015 | 8:38:07 | 54.13 | 51.13 | 807 | 2.32 | 0.34 | 44.1 |
| 4/23/2015 | 8:38:07 | 54.46 | 51.46 | 795 | 4.59 | 0.37 | 43.5 |
| 4/23/2015 | 8:38:10 | 54.79 | 51.79 | 60 | 3.10 | 0.40 | 3.3 |
| 4/23/2015 | 8:38:17 | 55.12 | 52.12 | 55 | 3.56 | 0.40 | 3.0 |
| 4/23/2015 | 8:38:25 | 55.45 | 52.45 | 38 | 3.23 | 0.40 | 2.1 |
| 4/23/2015 | 8:38:31 | 55.77 | 52.77 | 78 | 3.24 | 0.39 | 4.3 |
| 4/23/2015 | 8:38:32 | 55.87 | 52.87 | 75 | 3.21 | 0.40 | 4.1 |

## G59 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:34:15

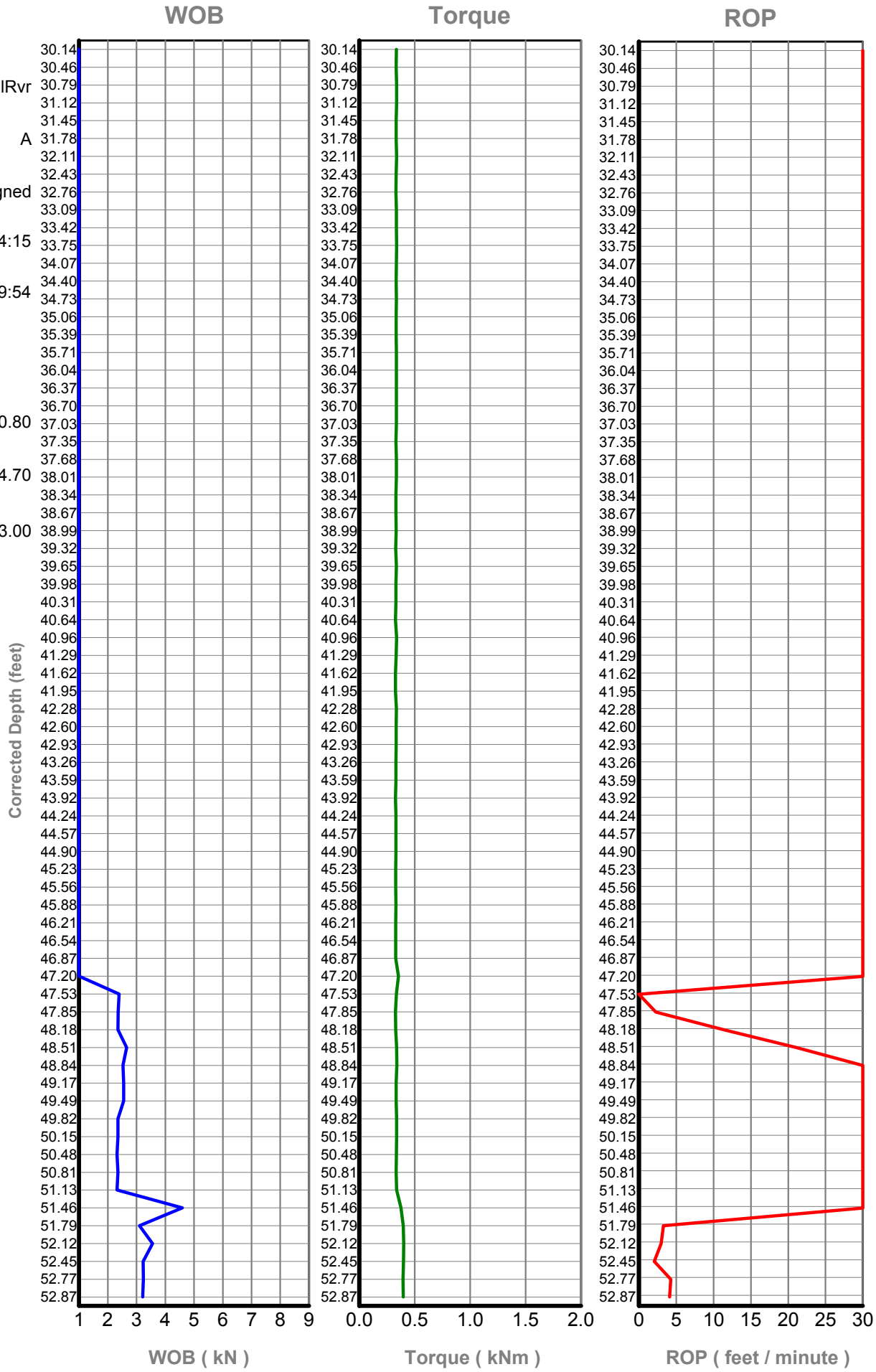
**End Date:**
4/23/2015 8:39:54

**Operator Note:**
'3 3.0 b Rock'

**Northing:**
366,980.80

**Easting:**
252,234.70

**Tide (feet):**
3.00



## Hole: G6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 21:40:09 | 32.15 | 30.05 | 462 | 1.68 | 0.15 | 25.3 |
| 4/22/2015 21:40:10 | 32.48 | 30.38 | 462 | 1.72 | 0.16 | 25.3 |
| 4/22/2015 21:40:11 | 32.81 | 30.71 | 464 | 1.70 | 0.15 | 25.4 |
| 4/22/2015 21:40:12 | 33.14 | 31.04 | 458 | 1.69 | 0.16 | 25.0 |
| 4/22/2015 21:40:12 | 33.46 | 31.36 | 458 | 1.68 | 0.15 | 25.0 |
| 4/22/2015 21:40:13 | 33.79 | 31.69 | 459 | 1.70 | 0.16 | 25.1 |
| 4/22/2015 21:40:14 | 34.12 | 32.02 | 462 | 1.66 | 0.16 | 25.3 |
| 4/22/2015 21:40:15 | 34.45 | 32.35 | 462 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:15 | 34.78 | 32.68 | 467 | 1.68 | 0.16 | 25.5 |
| 4/22/2015 21:40:16 | 35.11 | 33.01 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:17 | 35.43 | 33.33 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:18 | 35.76 | 33.66 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:19 | 36.09 | 33.99 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:20 | 36.42 | 34.32 | 463 | 1.69 | 0.16 | 25.3 |
| 4/22/2015 21:40:20 | 36.75 | 34.65 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:21 | 37.07 | 34.97 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:22 | 37.40 | 35.30 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:23 | 37.73 | 35.63 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:23 | 38.06 | 35.96 | 460 | 1.70 | 0.16 | 25.2 |
| 4/22/2015 21:40:24 | 38.39 | 36.29 | 460 | 1.68 | 0.15 | 25.2 |
| 4/22/2015 21:40:25 | 38.71 | 36.61 | 460 | 1.71 | 0.16 | 25.2 |
| 4/22/2015 21:40:25 | 39.04 | 36.94 | 460 | 1.69 | 0.16 | 25.2 |
| 4/22/2015 21:40:26 | 39.37 | 37.27 | 466 | 1.68 | 0.15 | 25.5 |
| 4/22/2015 21:40:27 | 39.70 | 37.60 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:28 | 40.03 | 37.93 | 468 | 1.68 | 0.15 | 25.6 |
| 4/22/2015 21:40:29 | 40.35 | 38.25 | 463 | 1.69 | 0.16 | 25.3 |
| 4/22/2015 21:40:30 | 40.68 | 38.58 | 457 | 1.70 | 0.15 | 25.0 |
| 4/22/2015 21:40:30 | 41.01 | 38.91 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:31 | 41.34 | 39.24 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:32 | 41.67 | 39.57 | 460 | 1.68 | 0.16 | 25.2 |
| 4/22/2015 21:40:33 | 41.99 | 39.89 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:33 | 42.32 | 40.22 | 460 | 1.69 | 0.16 | 25.1 |
| 4/22/2015 21:40:34 | 42.65 | 40.55 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:35 | 42.98 | 40.88 | 460 | 1.70 | 0.16 | 25.1 |
| 4/22/2015 21:40:36 | 43.31 | 41.21 | 460 | 1.70 | 0.16 | 25.1 |
| 4/22/2015 21:40:36 | 43.64 | 41.54 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:38 | 43.96 | 41.86 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:38 | 44.29 | 42.19 | 457 | 1.69 | 0.16 | 25.0 |
| 4/22/2015 21:40:39 | 44.62 | 42.52 | 463 | 1.70 | 0.17 | 25.3 |
| 4/22/2015 21:40:40 | 44.95 | 42.85 | 463 | 1.68 | 0.16 | 25.3 |
| 4/22/2015 21:40:41 | 45.28 | 43.18 | 465 | 1.68 | 0.16 | 25.4 |
| 4/22/2015 21:40:41 | 45.60 | 43.50 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:42 | 45.93 | 43.83 | 460 | 1.70 | 0.16 | 25.1 |
| 4/22/2015 21:40:43 | 46.26 | 44.16 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:44 | 46.59 | 44.49 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:44 | 46.92 | 44.82 | 460 | 1.70 | 0.16 | 25.1 |
| 4/22/2015 21:40:45 | 47.24 | 45.14 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:46 | 47.57 | 45.47 | 462 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:47 | 47.90 | 45.80 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:47 | 48.23 | 46.13 | 460 | 1.68 | 0.16 | 25.1 |
| 4/22/2015 21:40:49 | 48.56 | 46.46 | 457 | 1.68 | 0.16 | 25.0 |
| 4/22/2015 21:40:49 | 48.88 | 46.78 | 460 | 1.69 | 0.16 | 25.1 |
| 4/22/2015 21:40:50 | 49.21 | 47.11 | 457 | 1.68 | 0.16 | 25.0 |
| 4/22/2015 21:40:51 | 49.54 | 47.44 | 460 | 1.69 | 0.16 | 25.1 |
| 4/22/2015 21:40:52 | 49.87 | 47.77 | 452 | 1.69 | 0.16 | 24.7 |
| 4/22/2015 21:40:52 | 50.20 | 48.10 | 454 | 1.70 | 0.16 | 24.8 |
| 4/22/2015 21:40:53 | 50.53 | 48.43 | 457 | 1.69 | 0.16 | 25.0 |
| 4/22/2015 21:40:54 | 50.85 | 48.75 | 456 | 1.69 | 0.16 | 25.0 |
| 4/22/2015 21:40:55 | 51.18 | 49.08 | 463 | 1.70 | 0.16 | 25.3 |
| 4/22/2015 21:40:55 | 51.51 | 49.41 | 465 | 1.68 | 0.16 | 25.4 |
| 4/22/2015 21:40:56 | 51.84 | 49.74 | 457 | 1.69 | 0.16 | 25.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 21:41:54 | 52.17 | 50.07 | 31 | 1.68 | 0.99 | 1.7 |
| 4/22/2015 | 21:42:02 | 52.49 | 50.39 | 41 | 1.72 | 1.18 | 2.2 |
| 4/22/2015 | 21:42:15 | 52.82 | 50.72 | 0 | 1.69 | 1.10 | 0.0 |
| 4/22/2015 | 21:42:16 | 53.15 | 51.05 | 139 | 1.67 | 1.15 | 7.6 |
| 4/22/2015 | 21:42:24 | 53.48 | 51.38 | 73 | 1.69 | 1.15 | 4.0 |
| 4/22/2015 | 21:42:28 | 53.81 | 51.71 | 26 | 1.70 | 1.05 | 1.4 |
| 4/22/2015 | 21:42:36 | 54.13 | 52.03 | 57 | 1.70 | 1.08 | 3.1 |
| 4/22/2015 | 21:42:43 | 54.46 | 52.36 | 46 | 1.71 | 1.17 | 2.5 |
| 4/22/2015 | 21:42:51 | 54.79 | 52.69 | 40 | 1.70 | 1.07 | 2.2 |
| 4/22/2015 | 21:42:59 | 55.01 | 52.91 | 17 | 1.67 | 1.04 | 0.9 |

## G6 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 21:38:01

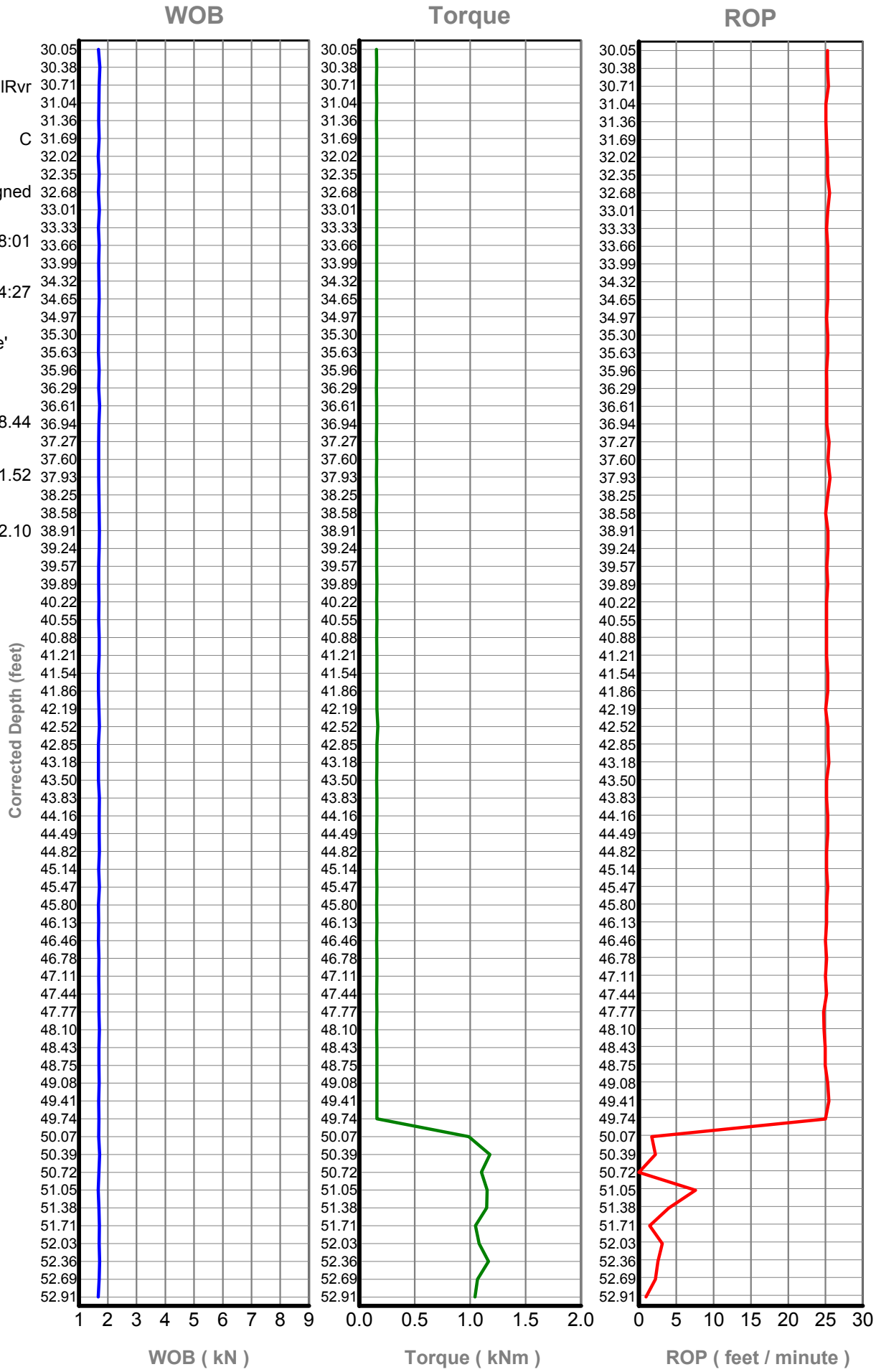
**End Date:**
4/22/2015 21:44:27

**Operator Note:**
'2.1 2.2 c Auto Complete'

**Northing:**
367,548.44

**Easting:**
252,231.52

**Tide (feet):**
2.10



## Hole: G60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:41:47 | 33.14 | 30.24 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 8:41:47 | 33.46 | 30.56 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 8:41:47 | 33.79 | 30.89 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 8:41:48 | 34.12 | 31.22 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 8:41:48 | 34.45 | 31.55 | 931 | 0.33 | 0.33 | 50.9 |
| 4/23/2015 8:41:49 | 34.78 | 31.88 | 931 | 0.33 | 0.33 | 50.9 |
| 4/23/2015 8:41:49 | 35.11 | 32.21 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 8:41:49 | 35.43 | 32.53 | 937 | 0.37 | 0.32 | 51.2 |
| 4/23/2015 8:41:50 | 35.76 | 32.86 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 8:41:50 | 36.09 | 33.19 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 8:41:50 | 36.42 | 33.52 | 923 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 8:41:51 | 36.75 | 33.85 | 940 | 0.62 | 0.32 | 51.4 |
| 4/23/2015 8:41:51 | 37.07 | 34.17 | 940 | 0.62 | 0.32 | 51.4 |
| 4/23/2015 8:41:51 | 37.40 | 34.50 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 8:41:52 | 37.73 | 34.83 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 8:41:52 | 38.06 | 35.16 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 8:41:53 | 38.39 | 35.49 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 8:41:53 | 38.71 | 35.81 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 8:41:53 | 39.04 | 36.14 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 8:41:54 | 39.37 | 36.47 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 8:41:54 | 39.70 | 36.80 | 948 | 0.32 | 0.32 | 51.8 |
| 4/23/2015 8:41:55 | 40.03 | 37.13 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 8:41:55 | 40.35 | 37.45 | 951 | 0.33 | 0.33 | 52.0 |
| 4/23/2015 8:41:56 | 40.68 | 37.78 | 951 | 0.33 | 0.33 | 52.0 |
| 4/23/2015 8:41:56 | 41.01 | 38.11 | 923 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 8:41:56 | 41.34 | 38.44 | 923 | 0.34 | 0.32 | 50.5 |
| 4/23/2015 8:41:57 | 41.67 | 38.77 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 8:41:57 | 41.99 | 39.09 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 8:41:57 | 42.32 | 39.42 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 8:41:58 | 42.65 | 39.75 | 941 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 8:41:58 | 42.98 | 40.08 | 941 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 8:41:58 | 43.31 | 40.41 | 932 | 0.33 | 0.32 | 51.0 |
| 4/23/2015 8:41:59 | 43.64 | 40.74 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 8:41:59 | 43.96 | 41.06 | 948 | 0.34 | 0.32 | 51.8 |
| 4/23/2015 8:42:00 | 44.29 | 41.39 | 948 | 0.34 | 0.32 | 51.8 |
| 4/23/2015 8:42:00 | 44.62 | 41.72 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 8:42:00 | 44.95 | 42.05 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 8:42:01 | 45.28 | 42.38 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 8:42:01 | 45.60 | 42.70 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 8:42:01 | 45.93 | 43.03 | 941 | 0.34 | 0.32 | 51.5 |
| 4/23/2015 8:42:02 | 46.26 | 43.36 | 936 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:02 | 46.59 | 43.69 | 936 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:03 | 46.92 | 44.02 | 936 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:03 | 47.24 | 44.34 | 930 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 8:42:03 | 47.57 | 44.67 | 951 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 8:42:04 | 47.90 | 45.00 | 951 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 8:42:04 | 48.23 | 45.33 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:04 | 48.56 | 45.66 | 937 | 0.34 | 0.33 | 51.2 |
| 4/23/2015 8:42:05 | 48.88 | 45.98 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:06 | 49.21 | 46.31 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:06 | 49.54 | 46.64 | 945 | 0.34 | 0.32 | 51.7 |
| 4/23/2015 8:42:06 | 49.87 | 46.97 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:07 | 50.20 | 47.30 | 942 | 0.34 | 0.33 | 51.5 |
| 4/23/2015 8:42:07 | 50.53 | 47.63 | 942 | 0.34 | 0.33 | 51.5 |
| 4/23/2015 8:42:07 | 50.85 | 47.95 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 8:42:08 | 51.18 | 48.28 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 8:42:08 | 51.51 | 48.61 | 931 | 0.34 | 0.32 | 50.9 |
| 4/23/2015 8:42:09 | 51.84 | 48.94 | 931 | 0.34 | 0.32 | 50.9 |
| 4/23/2015 8:42:09 | 52.17 | 49.27 | 931 | 0.34 | 0.32 | 50.9 |
| 4/23/2015 8:42:09 | 52.49 | 49.59 | 917 | 0.35 | 0.33 | 50.2 |
| 4/23/2015 8:42:10 | 52.82 | 49.92 | 917 | 0.35 | 0.33 | 50.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:42:10 | 53.15 | 50.25 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 | 8:42:10 | 53.48 | 50.58 | 923 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 | 8:42:11 | 53.81 | 50.91 | 923 | 0.31 | 0.35 | 50.5 |
| 4/23/2015 | 8:42:16 | 54.13 | 51.23 | 0 | 2.08 | 0.32 | 0.0 |
| 4/23/2015 | 8:42:21 | 54.46 | 51.56 | 0 | 2.08 | 0.32 | 0.0 |
| 4/23/2015 | 8:42:17 | 54.79 | 51.89 | 186 | 2.09 | 0.31 | 10.1 |
| 4/23/2015 | 8:42:17 | 55.12 | 52.22 | 371 | 2.08 | 0.32 | 20.3 |
| 4/23/2015 | 8:42:18 | 55.45 | 52.55 | 554 | 2.46 | 0.34 | 30.3 |
| 4/23/2015 | 8:42:18 | 55.77 | 52.87 | 716 | 3.45 | 0.38 | 39.1 |
| 4/23/2015 | 8:42:26 | 56.10 | 53.20 | 57 | 3.50 | 0.40 | 3.1 |
| 4/23/2015 | 8:42:32 | 56.43 | 53.53 | 49 | 3.41 | 0.40 | 2.7 |
| 4/23/2015 | 8:42:39 | 56.76 | 53.86 | 52 | 3.35 | 0.40 | 2.8 |
| 4/23/2015 | 8:42:44 | 57.02 | 54.12 | 52 | 2.83 | 0.40 | 2.8 |

## G60 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:40:31

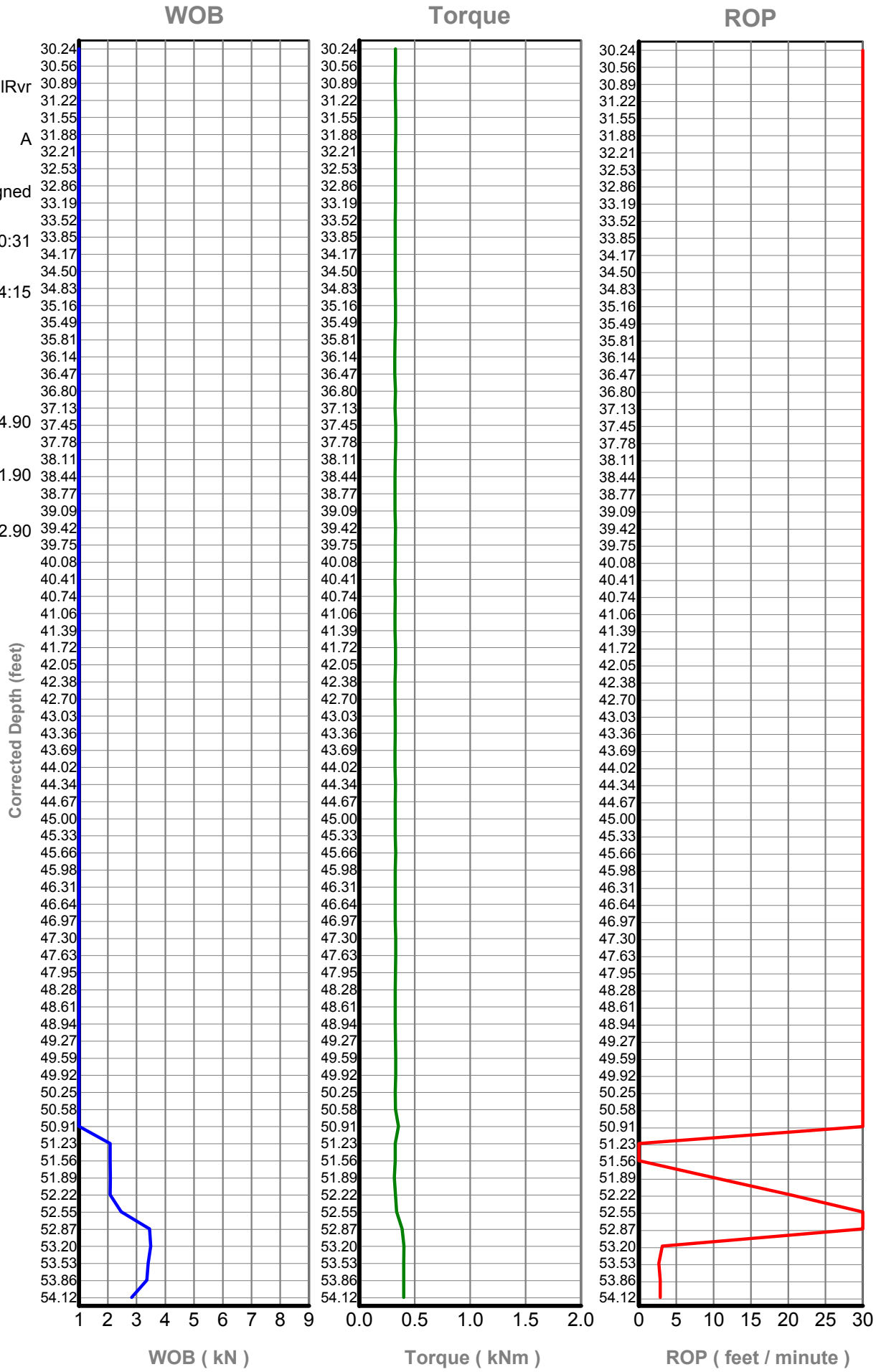
**End Date:**
4/23/2015 8:44:15

**Operator Note:**
'2.9 3.0 b Rock'

**Northing:**
367,014.90

**Easting:**
252,281.90

**Tide (feet):**
2.90



## Hole: G61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 8:39:30 | 33.14 | 30.14 | 374 | 1.61 | 0.32 | 20.4 |
| 4/23/2015 8:39:31 | 33.46 | 30.46 | 373 | 1.59 | 0.31 | 20.4 |
| 4/23/2015 8:39:32 | 33.79 | 30.79 | 376 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 8:39:33 | 34.12 | 31.12 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 8:39:34 | 34.45 | 31.45 | 379 | 1.59 | 0.32 | 20.7 |
| 4/23/2015 8:39:35 | 34.78 | 31.78 | 379 | 1.61 | 0.31 | 20.7 |
| 4/23/2015 8:39:36 | 35.11 | 32.11 | 379 | 1.60 | 0.31 | 20.7 |
| 4/23/2015 8:39:37 | 35.43 | 32.43 | 382 | 1.59 | 0.31 | 20.9 |
| 4/23/2015 8:39:38 | 35.76 | 32.76 | 382 | 1.60 | 0.31 | 20.9 |
| 4/23/2015 8:39:39 | 36.09 | 33.09 | 382 | 1.59 | 0.30 | 20.9 |
| 4/23/2015 8:39:40 | 36.42 | 33.42 | 379 | 1.58 | 0.31 | 20.7 |
| 4/23/2015 8:39:41 | 36.75 | 33.75 | 376 | 1.60 | 0.31 | 20.6 |
| 4/23/2015 8:39:42 | 37.07 | 34.07 | 382 | 1.62 | 0.31 | 20.9 |
| 4/23/2015 8:39:43 | 37.40 | 34.40 | 382 | 1.60 | 0.31 | 20.9 |
| 4/23/2015 8:39:44 | 37.73 | 34.73 | 377 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 8:39:45 | 38.06 | 35.06 | 377 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 8:39:45 | 38.39 | 35.39 | 382 | 1.61 | 0.31 | 20.9 |
| 4/23/2015 8:39:46 | 38.71 | 35.71 | 381 | 1.59 | 0.30 | 20.8 |
| 4/23/2015 8:39:47 | 39.04 | 36.04 | 384 | 1.61 | 0.31 | 21.0 |
| 4/23/2015 8:39:48 | 39.37 | 36.37 | 381 | 1.60 | 0.31 | 20.8 |
| 4/23/2015 8:39:50 | 39.70 | 36.70 | 382 | 1.58 | 0.31 | 20.9 |
| 4/23/2015 8:39:50 | 40.03 | 37.03 | 377 | 1.62 | 0.31 | 20.6 |
| 4/23/2015 8:39:51 | 40.35 | 37.35 | 379 | 1.60 | 0.31 | 20.7 |
| 4/23/2015 8:39:52 | 40.68 | 37.68 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 8:39:53 | 41.01 | 38.01 | 382 | 1.59 | 0.30 | 20.9 |
| 4/23/2015 8:39:54 | 41.34 | 38.34 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 8:39:55 | 41.67 | 38.67 | 379 | 1.61 | 0.30 | 20.7 |
| 4/23/2015 8:39:56 | 41.99 | 38.99 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 8:39:57 | 42.32 | 39.32 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 8:39:58 | 42.65 | 39.65 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 8:39:59 | 42.98 | 39.98 | 376 | 1.61 | 0.30 | 20.6 |
| 4/23/2015 8:39:59 | 43.31 | 40.31 | 376 | 1.59 | 0.30 | 20.6 |
| 4/23/2015 8:40:01 | 43.64 | 40.64 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 8:40:02 | 43.96 | 40.96 | 378 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 8:40:03 | 44.29 | 41.29 | 379 | 1.62 | 0.30 | 20.7 |
| 4/23/2015 8:40:04 | 44.62 | 41.62 | 374 | 1.60 | 0.30 | 20.4 |
| 4/23/2015 8:40:05 | 44.95 | 41.95 | 376 | 1.62 | 0.30 | 20.6 |
| 4/23/2015 8:40:05 | 45.28 | 42.28 | 376 | 1.59 | 0.30 | 20.6 |
| 4/23/2015 8:40:06 | 45.60 | 42.60 | 379 | 1.59 | 0.31 | 20.7 |
| 4/23/2015 8:40:07 | 45.93 | 42.93 | 379 | 1.60 | 0.30 | 20.7 |
| 4/23/2015 8:40:08 | 46.26 | 43.26 | 379 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 8:40:09 | 46.59 | 43.59 | 376 | 1.60 | 0.30 | 20.5 |
| 4/23/2015 8:40:10 | 46.92 | 43.92 | 376 | 1.64 | 0.30 | 20.5 |
| 4/23/2015 8:40:11 | 47.24 | 44.24 | 379 | 1.62 | 0.30 | 20.7 |
| 4/23/2015 8:40:12 | 47.57 | 44.57 | 376 | 1.59 | 0.30 | 20.6 |
| 4/23/2015 8:40:13 | 47.90 | 44.90 | 368 | 1.61 | 0.30 | 20.1 |
| 4/23/2015 8:40:14 | 48.23 | 45.23 | 370 | 1.61 | 0.30 | 20.2 |
| 4/23/2015 8:40:15 | 48.56 | 45.56 | 369 | 1.61 | 0.30 | 20.2 |
| 4/23/2015 8:40:16 | 48.88 | 45.88 | 373 | 1.62 | 0.30 | 20.4 |
| 4/23/2015 8:40:17 | 49.21 | 46.21 | 378 | 1.59 | 0.31 | 20.7 |
| 4/23/2015 8:40:18 | 49.54 | 46.54 | 380 | 1.60 | 0.30 | 20.8 |
| 4/23/2015 8:40:19 | 49.87 | 46.87 | 376 | 1.57 | 0.30 | 20.6 |
| 4/23/2015 8:40:20 | 50.20 | 47.20 | 376 | 1.59 | 0.30 | 20.6 |
| 4/23/2015 8:40:21 | 50.53 | 47.53 | 376 | 1.59 | 0.31 | 20.6 |
| 4/23/2015 8:40:22 | 50.85 | 47.85 | 376 | 1.58 | 0.30 | 20.6 |
| 4/23/2015 8:40:23 | 51.18 | 48.18 | 337 | 1.61 | 0.31 | 18.4 |
| 4/23/2015 8:40:43 | 51.51 | 48.51 | 6 | 1.60 | 1.03 | 0.3 |
| 4/23/2015 8:40:45 | 51.84 | 48.84 | 170 | 1.59 | 1.10 | 9.3 |
| 4/23/2015 8:40:46 | 52.17 | 49.17 | 270 | 1.61 | 1.10 | 14.8 |
| 4/23/2015 8:40:47 | 52.49 | 49.49 | 262 | 1.61 | 1.09 | 14.3 |
| 4/23/2015 8:40:48 | 52.82 | 49.82 | 263 | 1.59 | 1.04 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 8:40:50 | 53.15 | 50.15 | 263 | 1.60 | 1.01 | 14.4 |
| 4/23/2015 | 8:40:51 | 53.48 | 50.48 | 265 | 1.61 | 1.01 | 14.5 |
| 4/23/2015 | 8:40:53 | 53.81 | 50.81 | 263 | 1.56 | 1.00 | 14.4 |
| 4/23/2015 | 8:40:54 | 54.13 | 51.13 | 256 | 1.59 | 0.98 | 14.0 |
| 4/23/2015 | 8:40:56 | 54.46 | 51.46 | 252 | 1.59 | 0.97 | 13.8 |
| 4/23/2015 | 8:40:57 | 54.79 | 51.79 | 252 | 1.61 | 0.97 | 13.8 |
| 4/23/2015 | 8:40:58 | 55.12 | 52.12 | 247 | 1.59 | 0.96 | 13.5 |
| 4/23/2015 | 8:41:00 | 55.45 | 52.45 | 252 | 1.60 | 0.95 | 13.8 |
| 4/23/2015 | 8:41:01 | 55.77 | 52.77 | 252 | 1.60 | 0.95 | 13.8 |
| 4/23/2015 | 8:41:03 | 56.10 | 53.10 | 247 | 1.59 | 0.95 | 13.5 |
| 4/23/2015 | 8:41:04 | 56.43 | 53.43 | 249 | 1.59 | 0.94 | 13.6 |
| 4/23/2015 | 8:41:06 | 56.76 | 53.76 | 249 | 1.62 | 0.95 | 13.6 |
| 4/23/2015 | 8:41:07 | 57.09 | 54.09 | 243 | 1.62 | 0.95 | 13.3 |
| 4/23/2015 | 8:41:09 | 57.41 | 54.41 | 243 | 1.59 | 0.96 | 13.3 |
| 4/23/2015 | 8:41:10 | 57.74 | 54.74 | 245 | 1.60 | 1.07 | 13.4 |
| 4/23/2015 | 8:41:12 | 58.01 | 55.01 | 240 | 1.61 | 1.11 | 13.1 |

## G61 - Summary

**Pattern Number:**
AreaF-G_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 8:37:10

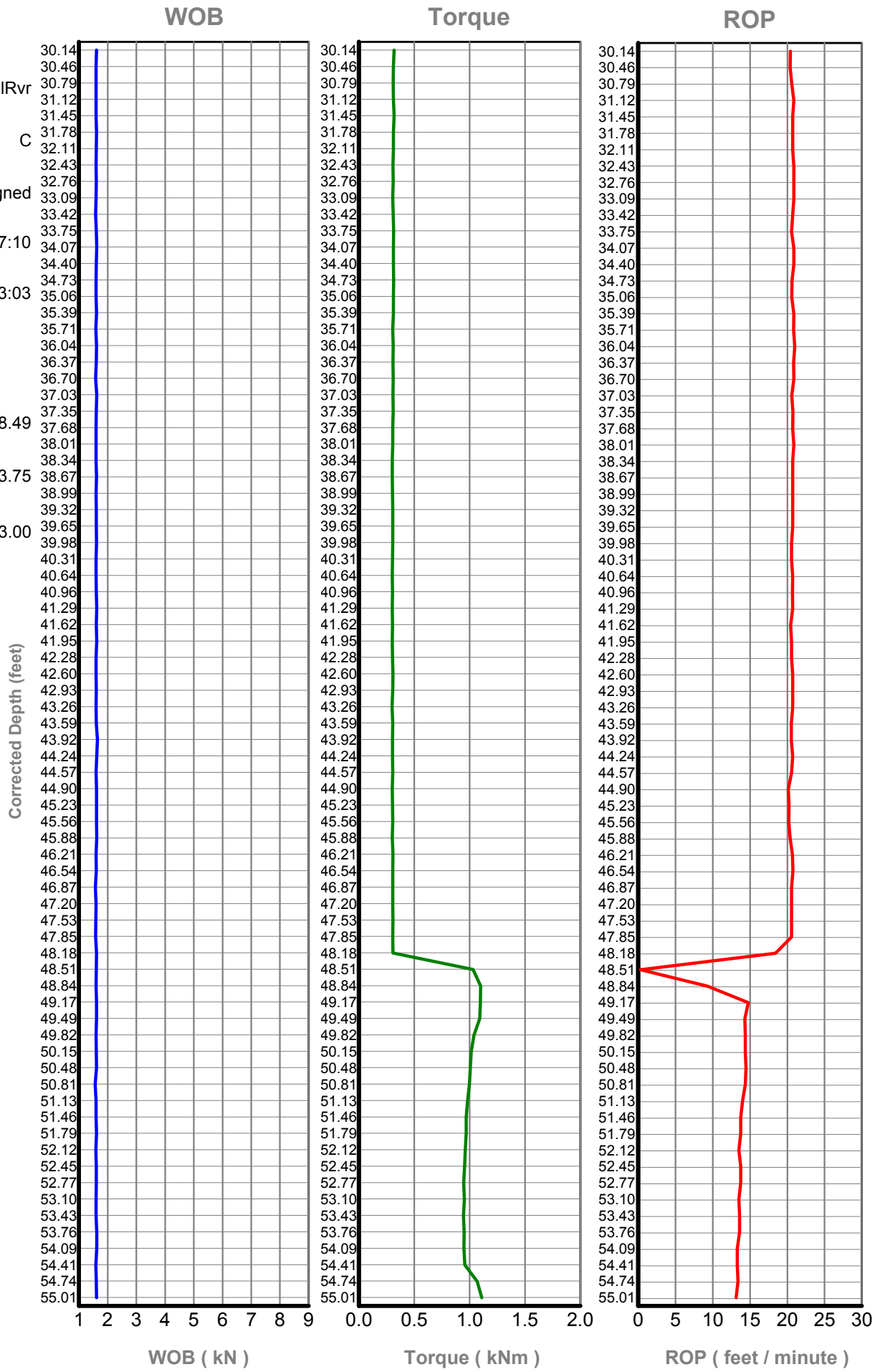
**End Date:**
4/23/2015 8:43:03

**Operator Note:**
'3 3.0 c Auto Complete'

**Northing:**
367,058.49

**Easting:**
252,343.75

**Tide (feet):**
3.00



## Hole: G62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:26:44 | 36.42 | 30.22 | 905 | 1.66 | 1.29 | 49.5 |
| 4/22/2015 17:26:45 | 36.75 | 30.55 | 904 | 1.66 | 1.29 | 49.4 |
| 4/22/2015 17:26:45 | 37.07 | 30.87 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 17:26:46 | 37.40 | 31.20 | 907 | 1.66 | 1.29 | 49.6 |
| 4/22/2015 17:26:46 | 37.73 | 31.53 | 913 | 1.66 | 1.29 | 49.9 |
| 4/22/2015 17:26:46 | 38.06 | 31.86 | 914 | 1.66 | 1.29 | 50.0 |
| 4/22/2015 17:26:47 | 38.39 | 32.19 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 17:26:47 | 38.71 | 32.51 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 17:26:47 | 39.04 | 32.84 | 920 | 1.66 | 1.29 | 50.3 |
| 4/22/2015 17:26:48 | 39.37 | 33.17 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 17:26:48 | 39.70 | 33.50 | 942 | 1.66 | 1.29 | 51.5 |
| 4/22/2015 17:26:48 | 40.03 | 33.83 | 962 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:49 | 40.35 | 34.15 | 960 | 1.66 | 1.29 | 52.5 |
| 4/22/2015 17:26:50 | 40.68 | 34.48 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 17:26:50 | 41.01 | 34.81 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 17:26:50 | 41.34 | 35.14 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 17:26:51 | 41.67 | 35.47 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 17:26:51 | 41.99 | 35.79 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 17:26:51 | 42.32 | 36.12 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 17:26:52 | 42.65 | 36.45 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 17:26:52 | 42.98 | 36.78 | 978 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 17:26:52 | 43.31 | 37.11 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 17:26:53 | 43.64 | 37.44 | 961 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:53 | 43.96 | 37.76 | 961 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:53 | 44.29 | 38.09 | 961 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:54 | 44.62 | 38.42 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:54 | 44.95 | 38.75 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:55 | 45.28 | 39.08 | 963 | 1.66 | 1.29 | 52.6 |
| 4/22/2015 17:26:55 | 45.60 | 39.40 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:26:55 | 45.93 | 39.73 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:26:56 | 46.26 | 40.06 | 980 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:26:56 | 46.59 | 40.39 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 17:26:56 | 46.92 | 40.72 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:26:57 | 47.24 | 41.04 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:26:57 | 47.57 | 41.37 | 996 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 17:26:57 | 47.90 | 41.70 | 973 | 1.66 | 1.29 | 53.2 |
| 4/22/2015 17:26:58 | 48.23 | 42.03 | 981 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 17:26:58 | 48.56 | 42.36 | 981 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 17:26:58 | 48.88 | 42.68 | 981 | 1.66 | 1.29 | 53.7 |
| 4/22/2015 17:26:59 | 49.21 | 43.01 | 979 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 17:26:59 | 49.54 | 43.34 | 979 | 1.66 | 1.29 | 53.5 |
| 4/22/2015 17:26:59 | 49.87 | 43.67 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 17:27:00 | 50.20 | 44.00 | 972 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:27:00 | 50.53 | 44.33 | 972 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:27:00 | 50.85 | 44.65 | 972 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:27:01 | 51.18 | 44.98 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 17:27:02 | 51.51 | 45.31 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:27:02 | 51.84 | 45.64 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:27:02 | 52.17 | 45.97 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:27:03 | 52.49 | 46.29 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:27:03 | 52.82 | 46.62 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:27:03 | 53.15 | 46.95 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 17:27:04 | 53.48 | 47.28 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 17:27:04 | 53.81 | 47.61 | 976 | 1.66 | 1.29 | 53.4 |
| 4/22/2015 17:27:04 | 54.13 | 47.93 | 971 | 1.66 | 1.29 | 53.1 |
| 4/22/2015 17:27:15 | 54.46 | 48.26 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 17:27:16 | 54.79 | 48.59 | 124 | 1.66 | 1.29 | 6.8 |
| 4/22/2015 17:27:16 | 55.12 | 48.92 | 292 | 1.66 | 1.29 | 16.0 |
| 4/22/2015 17:27:17 | 55.45 | 49.25 | 472 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 17:27:17 | 55.77 | 49.57 | 648 | 1.66 | 1.29 | 35.4 |
| 4/22/2015 17:27:18 | 56.10 | 49.90 | 648 | 1.66 | 1.29 | 35.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:27:18 | 56.43 | 50.23 | 825 | 1.66 | 1.29 | 45.1 |
| 4/22/2015 | 17:27:18 | 56.76 | 50.56 | 881 | 1.66 | 1.29 | 48.2 |
| 4/22/2015 | 17:27:19 | 57.09 | 50.89 | 884 | 1.66 | 1.29 | 48.3 |
| 4/22/2015 | 17:27:19 | 57.41 | 51.21 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 | 17:27:20 | 57.74 | 51.54 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 | 17:27:20 | 58.07 | 51.87 | 867 | 1.66 | 1.29 | 47.4 |
| 4/22/2015 | 17:27:20 | 58.40 | 52.20 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 | 17:27:21 | 58.73 | 52.53 | 841 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 | 17:27:21 | 59.06 | 52.86 | 841 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 | 17:27:22 | 59.38 | 53.18 | 841 | 1.66 | 1.29 | 46.0 |
| 4/22/2015 | 17:27:22 | 59.71 | 53.51 | 844 | 1.66 | 1.29 | 46.2 |
| 4/22/2015 | 17:27:22 | 60.04 | 53.84 | 853 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 | 17:27:23 | 60.37 | 54.17 | 837 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 | 17:27:23 | 60.70 | 54.50 | 837 | 1.66 | 1.29 | 45.8 |
| 4/22/2015 | 17:27:24 | 61.02 | 54.82 | 847 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 | 17:27:24 | 61.35 | 55.15 | 847 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 | 17:27:25 | 61.68 | 55.48 | 847 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 | 17:27:25 | 61.77 | 55.57 | 847 | 1.66 | 1.29 | 46.3 |

## G62 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:19:17

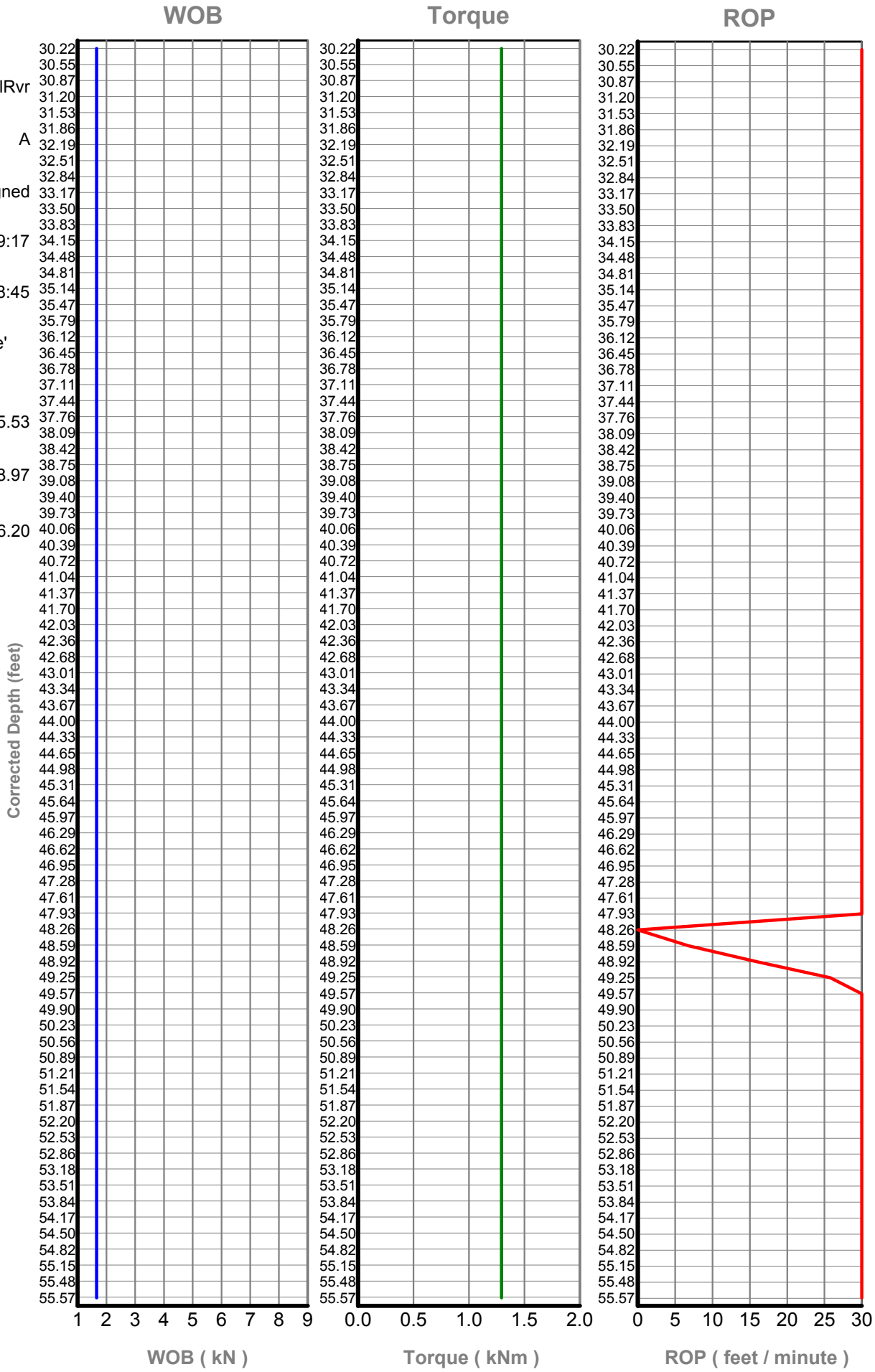
**End Date:**
4/22/2015 17:28:45

**Operator Note:**
'6.2 6.3 b Auto Complete'

**Northing:**
367,125.53

**Easting:**
252,418.97

**Tide (feet):**
6.20



## Hole: G63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:39:35 | 36.42 | 30.32 | 952 | 1.66 | 1.29 | 52.1 |
| 4/22/2015 17:39:36 | 36.75 | 30.65 | 949 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 17:39:37 | 37.07 | 30.97 | 949 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 17:39:37 | 37.40 | 31.30 | 949 | 1.66 | 1.29 | 51.9 |
| 4/22/2015 17:39:37 | 37.73 | 31.63 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 17:39:38 | 38.06 | 31.96 | 943 | 1.66 | 1.29 | 51.6 |
| 4/22/2015 17:39:38 | 38.39 | 32.29 | 943 | 1.66 | 1.29 | 51.6 |
| 4/22/2015 17:39:38 | 38.71 | 32.61 | 957 | 1.66 | 1.29 | 52.3 |
| 4/22/2015 17:39:39 | 39.04 | 32.94 | 954 | 1.66 | 1.29 | 52.2 |
| 4/22/2015 17:39:39 | 39.37 | 33.27 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 17:39:40 | 39.70 | 33.60 | 951 | 1.66 | 1.29 | 52.0 |
| 4/22/2015 17:39:40 | 40.03 | 33.93 | 948 | 1.66 | 1.29 | 51.8 |
| 4/22/2015 17:39:48 | 40.35 | 34.25 | 3 | 1.66 | 1.29 | 0.2 |
| 4/22/2015 17:39:49 | 40.68 | 34.58 | 126 | 1.66 | 1.29 | 6.9 |
| 4/22/2015 17:39:49 | 41.01 | 34.91 | 296 | 1.66 | 1.29 | 16.2 |
| 4/22/2015 17:39:50 | 41.34 | 35.24 | 464 | 1.66 | 1.29 | 25.4 |
| 4/22/2015 17:39:50 | 41.67 | 35.57 | 630 | 1.66 | 1.29 | 34.4 |
| 4/22/2015 17:39:51 | 41.99 | 35.89 | 801 | 1.66 | 1.29 | 43.8 |
| 4/22/2015 17:39:51 | 42.32 | 36.22 | 801 | 1.66 | 1.29 | 43.8 |
| 4/22/2015 17:39:51 | 42.65 | 36.55 | 849 | 1.66 | 1.29 | 46.4 |
| 4/22/2015 17:39:52 | 42.98 | 36.88 | 852 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 17:39:52 | 43.31 | 37.21 | 853 | 1.66 | 1.29 | 46.6 |
| 4/22/2015 17:39:53 | 43.64 | 37.54 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 17:39:53 | 43.96 | 37.86 | 864 | 1.66 | 1.29 | 47.2 |
| 4/22/2015 17:39:53 | 44.29 | 38.19 | 869 | 1.66 | 1.29 | 47.5 |
| 4/22/2015 17:39:54 | 44.62 | 38.52 | 872 | 1.66 | 1.29 | 47.7 |
| 4/22/2015 17:39:54 | 44.95 | 38.85 | 875 | 1.66 | 1.29 | 47.9 |
| 4/22/2015 17:40:07 | 45.28 | 39.18 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 17:40:07 | 45.60 | 39.50 | 151 | 1.66 | 1.29 | 8.3 |
| 4/22/2015 17:40:08 | 45.93 | 39.83 | 151 | 1.66 | 1.29 | 8.3 |
| 4/22/2015 17:40:08 | 46.26 | 40.16 | 340 | 1.66 | 1.29 | 18.6 |
| 4/22/2015 17:40:08 | 46.59 | 40.49 | 543 | 1.66 | 1.29 | 29.7 |
| 4/22/2015 17:40:09 | 46.92 | 40.82 | 732 | 1.66 | 1.29 | 40.0 |
| 4/22/2015 17:40:09 | 47.24 | 41.14 | 732 | 1.66 | 1.29 | 40.0 |
| 4/22/2015 17:40:09 | 47.57 | 41.47 | 935 | 1.66 | 1.29 | 51.1 |
| 4/22/2015 17:40:10 | 47.90 | 41.80 | 975 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:40:10 | 48.23 | 42.13 | 975 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:40:10 | 48.56 | 42.46 | 990 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:40:11 | 48.88 | 42.78 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:40:12 | 49.21 | 43.11 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:40:12 | 49.54 | 43.44 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:40:12 | 49.87 | 43.77 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:40:13 | 50.20 | 44.10 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:40:13 | 50.53 | 44.43 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:40:13 | 50.85 | 44.75 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 17:40:14 | 51.18 | 45.08 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:40:14 | 51.51 | 45.41 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 17:40:14 | 51.84 | 45.74 | 974 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:40:15 | 52.17 | 46.07 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:40:15 | 52.49 | 46.39 | 981 | 1.66 | 1.29 | 53.6 |
| 4/22/2015 17:40:15 | 52.82 | 46.72 | 984 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 17:40:16 | 53.15 | 47.05 | 969 | 1.66 | 1.29 | 53.0 |
| 4/22/2015 17:40:16 | 53.48 | 47.38 | 975 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:40:17 | 53.81 | 47.71 | 975 | 1.66 | 1.29 | 53.3 |
| 4/22/2015 17:40:17 | 54.13 | 48.03 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 17:40:25 | 54.46 | 48.36 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 17:40:25 | 54.79 | 48.69 | 141 | 1.66 | 1.29 | 7.7 |
| 4/22/2015 17:40:26 | 55.12 | 49.02 | 307 | 1.66 | 1.29 | 16.8 |
| 4/22/2015 17:40:26 | 55.45 | 49.35 | 472 | 1.66 | 1.29 | 25.8 |
| 4/22/2015 17:40:27 | 55.77 | 49.67 | 634 | 1.66 | 1.29 | 34.7 |
| 4/22/2015 17:40:27 | 56.10 | 50.00 | 634 | 1.66 | 1.29 | 34.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:40:27 | 56.43 | 50.33 | 799 | 1.66 | 1.29 | 43.7 |
| 4/22/2015 | 17:40:28 | 56.76 | 50.66 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 | 17:40:28 | 57.09 | 50.99 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 | 17:40:29 | 57.41 | 51.31 | 832 | 1.66 | 1.29 | 45.5 |
| 4/22/2015 | 17:40:29 | 57.74 | 51.64 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 | 17:40:30 | 58.07 | 51.97 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 | 17:40:30 | 58.40 | 52.30 | 829 | 1.66 | 1.29 | 45.3 |
| 4/22/2015 | 17:40:30 | 58.73 | 52.63 | 826 | 1.66 | 1.29 | 45.2 |
| 4/22/2015 | 17:40:31 | 59.06 | 52.96 | 820 | 1.66 | 1.29 | 44.9 |
| 4/22/2015 | 17:40:31 | 59.38 | 53.28 | 817 | 1.66 | 1.29 | 44.7 |
| 4/22/2015 | 17:40:32 | 59.71 | 53.61 | 670 | 1.66 | 1.29 | 36.6 |
| 4/22/2015 | 17:40:33 | 60.04 | 53.94 | 620 | 1.66 | 1.29 | 33.9 |
| 4/22/2015 | 17:40:33 | 60.37 | 54.27 | 615 | 1.66 | 1.29 | 33.6 |
| 4/22/2015 | 17:40:34 | 60.70 | 54.60 | 334 | 1.66 | 1.29 | 18.3 |
| 4/22/2015 | 17:40:37 | 61.02 | 54.92 | 239 | 1.66 | 1.29 | 13.1 |
| 4/22/2015 | 17:40:38 | 61.15 | 55.05 | 121 | 1.66 | 1.29 | 6.6 |

## G63 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:37:33

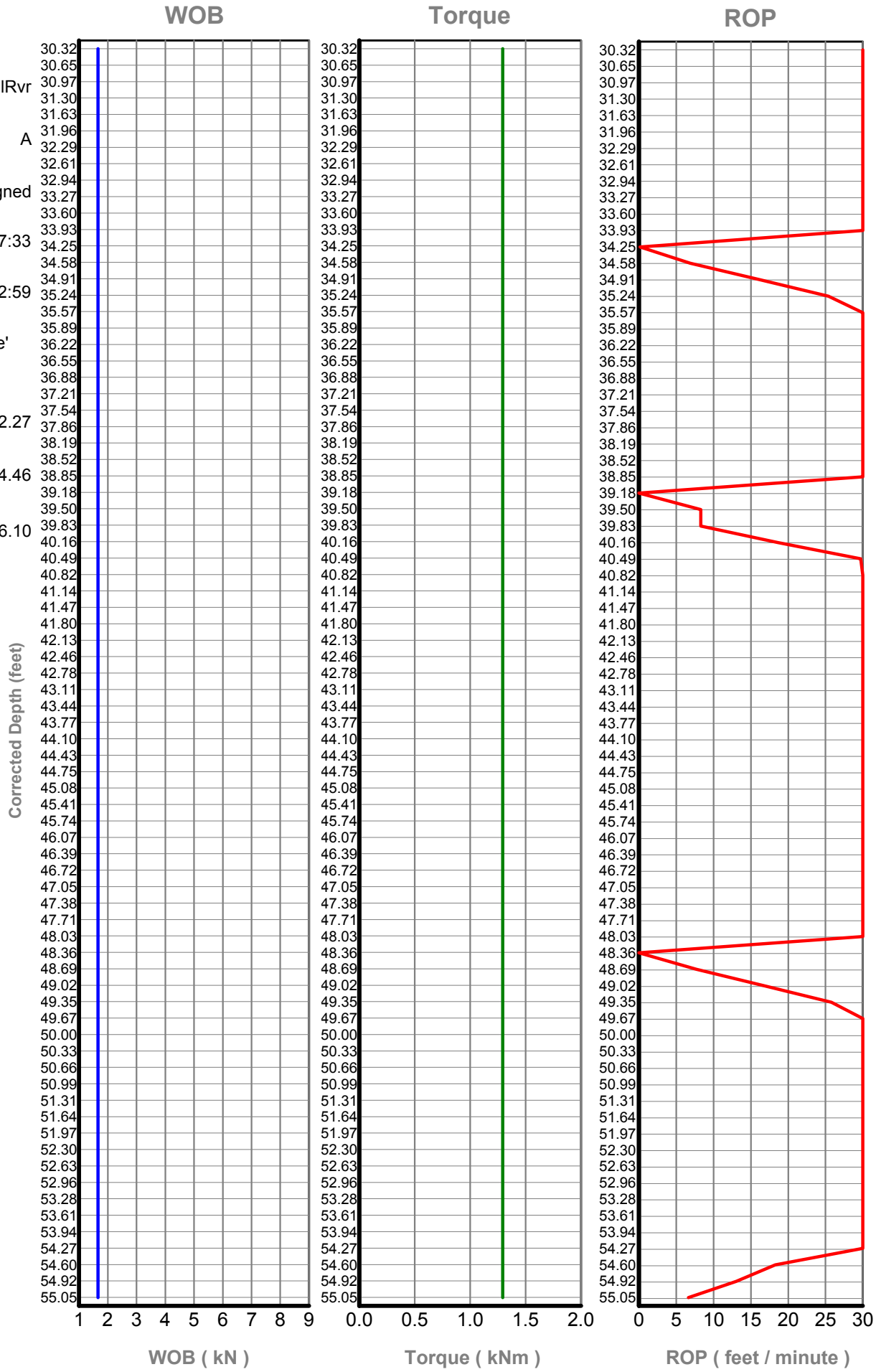
**End Date:**
4/22/2015 17:42:59

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
367,162.27

**Easting:**
252,464.46

**Tide (feet):**
6.10



## Hole: G64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 17:21:12 | 36.42 | 30.22 | 375 | 1.68 | 0.30 | 20.5 |
| 4/22/2015 17:21:13 | 36.75 | 30.55 | 380 | 1.69 | 0.30 | 20.8 |
| 4/22/2015 17:21:14 | 37.07 | 30.87 | 385 | 1.67 | 0.30 | 21.1 |
| 4/22/2015 17:21:15 | 37.40 | 31.20 | 391 | 1.66 | 0.30 | 21.4 |
| 4/22/2015 17:21:16 | 37.73 | 31.53 | 388 | 1.66 | 0.29 | 21.2 |
| 4/22/2015 17:21:17 | 38.06 | 31.86 | 382 | 1.70 | 0.30 | 20.9 |
| 4/22/2015 17:21:18 | 38.39 | 32.19 | 376 | 1.67 | 0.30 | 20.5 |
| 4/22/2015 17:21:18 | 38.71 | 32.51 | 382 | 1.65 | 0.30 | 20.9 |
| 4/22/2015 17:21:19 | 39.04 | 32.84 | 380 | 1.68 | 0.30 | 20.8 |
| 4/22/2015 17:21:20 | 39.37 | 33.17 | 389 | 1.66 | 0.30 | 21.3 |
| 4/22/2015 17:21:21 | 39.70 | 33.50 | 382 | 1.68 | 0.30 | 20.9 |
| 4/22/2015 17:21:22 | 40.03 | 33.83 | 385 | 1.68 | 0.30 | 21.0 |
| 4/22/2015 17:21:23 | 40.35 | 34.15 | 385 | 1.67 | 0.29 | 21.0 |
| 4/22/2015 17:21:24 | 40.68 | 34.48 | 387 | 1.65 | 0.30 | 21.1 |
| 4/22/2015 17:21:25 | 41.01 | 34.81 | 384 | 1.66 | 0.29 | 21.0 |
| 4/22/2015 17:21:26 | 41.34 | 35.14 | 382 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 17:21:27 | 41.67 | 35.47 | 382 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 17:21:28 | 41.99 | 35.79 | 379 | 1.65 | 0.29 | 20.7 |
| 4/22/2015 17:21:29 | 42.32 | 36.12 | 382 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 17:21:30 | 42.65 | 36.45 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:31 | 42.98 | 36.78 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 17:21:31 | 43.31 | 37.11 | 384 | 1.67 | 0.29 | 21.0 |
| 4/22/2015 17:21:32 | 43.64 | 37.44 | 384 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 17:21:33 | 43.96 | 37.76 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 17:21:35 | 44.29 | 38.09 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:36 | 44.62 | 38.42 | 382 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 17:21:36 | 44.95 | 38.75 | 379 | 1.68 | 0.29 | 20.7 |
| 4/22/2015 17:21:37 | 45.28 | 39.08 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:38 | 45.60 | 39.40 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 17:21:39 | 45.93 | 39.73 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 17:21:40 | 46.26 | 40.06 | 379 | 1.67 | 0.29 | 20.7 |
| 4/22/2015 17:21:41 | 46.59 | 40.39 | 380 | 1.66 | 0.29 | 20.8 |
| 4/22/2015 17:21:42 | 46.92 | 40.72 | 373 | 1.67 | 0.29 | 20.4 |
| 4/22/2015 17:21:43 | 47.24 | 41.04 | 378 | 1.66 | 0.29 | 20.7 |
| 4/22/2015 17:21:44 | 47.57 | 41.37 | 372 | 1.68 | 0.29 | 20.3 |
| 4/22/2015 17:21:45 | 47.90 | 41.70 | 375 | 1.66 | 0.29 | 20.5 |
| 4/22/2015 17:21:46 | 48.23 | 42.03 | 383 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:47 | 48.56 | 42.36 | 376 | 1.66 | 0.29 | 20.6 |
| 4/22/2015 17:21:48 | 48.88 | 42.68 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:49 | 49.21 | 43.01 | 382 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 17:21:49 | 49.54 | 43.34 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:50 | 49.87 | 43.67 | 382 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 17:21:51 | 50.20 | 44.00 | 384 | 1.63 | 0.29 | 21.0 |
| 4/22/2015 17:21:52 | 50.53 | 44.33 | 381 | 1.66 | 0.29 | 20.8 |
| 4/22/2015 17:21:53 | 50.85 | 44.65 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 17:21:54 | 51.18 | 44.98 | 379 | 1.66 | 0.29 | 20.7 |
| 4/22/2015 17:21:55 | 51.51 | 45.31 | 374 | 1.66 | 0.29 | 20.5 |
| 4/22/2015 17:21:56 | 51.84 | 45.64 | 373 | 1.67 | 0.29 | 20.4 |
| 4/22/2015 17:21:57 | 52.17 | 45.97 | 379 | 1.68 | 0.29 | 20.7 |
| 4/22/2015 17:21:58 | 52.49 | 46.29 | 380 | 1.67 | 0.29 | 20.8 |
| 4/22/2015 17:21:59 | 52.82 | 46.62 | 381 | 1.67 | 0.29 | 20.8 |
| 4/22/2015 17:22:00 | 53.15 | 46.95 | 383 | 1.66 | 0.30 | 21.0 |
| 4/22/2015 17:22:01 | 53.48 | 47.28 | 379 | 1.67 | 0.29 | 20.7 |
| 4/22/2015 17:22:02 | 53.81 | 47.61 | 324 | 1.66 | 0.29 | 17.7 |
| 4/22/2015 17:22:23 | 54.13 | 47.93 | 6 | 1.66 | 1.06 | 0.3 |
| 4/22/2015 17:22:24 | 54.46 | 48.26 | 154 | 1.68 | 1.07 | 8.4 |
| 4/22/2015 17:22:25 | 54.79 | 48.59 | 296 | 1.62 | 1.06 | 16.2 |
| 4/22/2015 17:22:27 | 55.12 | 48.92 | 356 | 1.67 | 1.05 | 19.5 |
| 4/22/2015 17:22:28 | 55.45 | 49.25 | 358 | 1.68 | 1.07 | 19.6 |
| 4/22/2015 17:22:29 | 55.77 | 49.57 | 358 | 1.68 | 1.03 | 19.6 |
| 4/22/2015 17:22:30 | 56.10 | 49.90 | 358 | 1.68 | 1.02 | 19.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 17:22:31 | 56.43 | 50.23 | 353 | 1.68 | 1.00 | 19.3 |
| 4/22/2015 | 17:22:32 | 56.76 | 50.56 | 353 | 1.68 | 0.99 | 19.3 |
| 4/22/2015 | 17:22:33 | 57.09 | 50.89 | 353 | 1.68 | 0.97 | 19.3 |
| 4/22/2015 | 17:22:34 | 57.41 | 51.21 | 351 | 1.68 | 0.96 | 19.2 |
| 4/22/2015 | 17:22:35 | 57.74 | 51.54 | 345 | 1.66 | 0.96 | 18.9 |
| 4/22/2015 | 17:22:36 | 58.07 | 51.87 | 346 | 1.68 | 0.95 | 18.9 |
| 4/22/2015 | 17:22:36 | 58.40 | 52.20 | 346 | 1.68 | 0.95 | 18.9 |
| 4/22/2015 | 17:22:38 | 58.73 | 52.53 | 350 | 1.68 | 0.94 | 19.1 |
| 4/22/2015 | 17:22:39 | 59.06 | 52.86 | 345 | 1.67 | 0.94 | 18.9 |
| 4/22/2015 | 17:22:40 | 59.38 | 53.18 | 347 | 1.70 | 0.93 | 19.0 |
| 4/22/2015 | 17:22:41 | 59.71 | 53.51 | 341 | 1.68 | 0.94 | 18.7 |
| 4/22/2015 | 17:22:42 | 60.04 | 53.84 | 346 | 1.70 | 0.93 | 18.9 |
| 4/22/2015 | 17:22:43 | 60.37 | 54.17 | 346 | 1.69 | 0.93 | 18.9 |
| 4/22/2015 | 17:22:44 | 60.70 | 54.50 | 341 | 1.70 | 0.93 | 18.7 |
| 4/22/2015 | 17:22:45 | 61.02 | 54.82 | 331 | 1.66 | 0.94 | 18.1 |
| 4/22/2015 | 17:22:46 | 61.35 | 55.15 | 324 | 1.67 | 0.94 | 17.7 |
| 4/22/2015 | 17:22:46 | 61.43 | 55.23 | 324 | 1.67 | 0.94 | 17.7 |

## G64 - Summary

**Pattern Number:**
AreaF-G_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 17:16:57

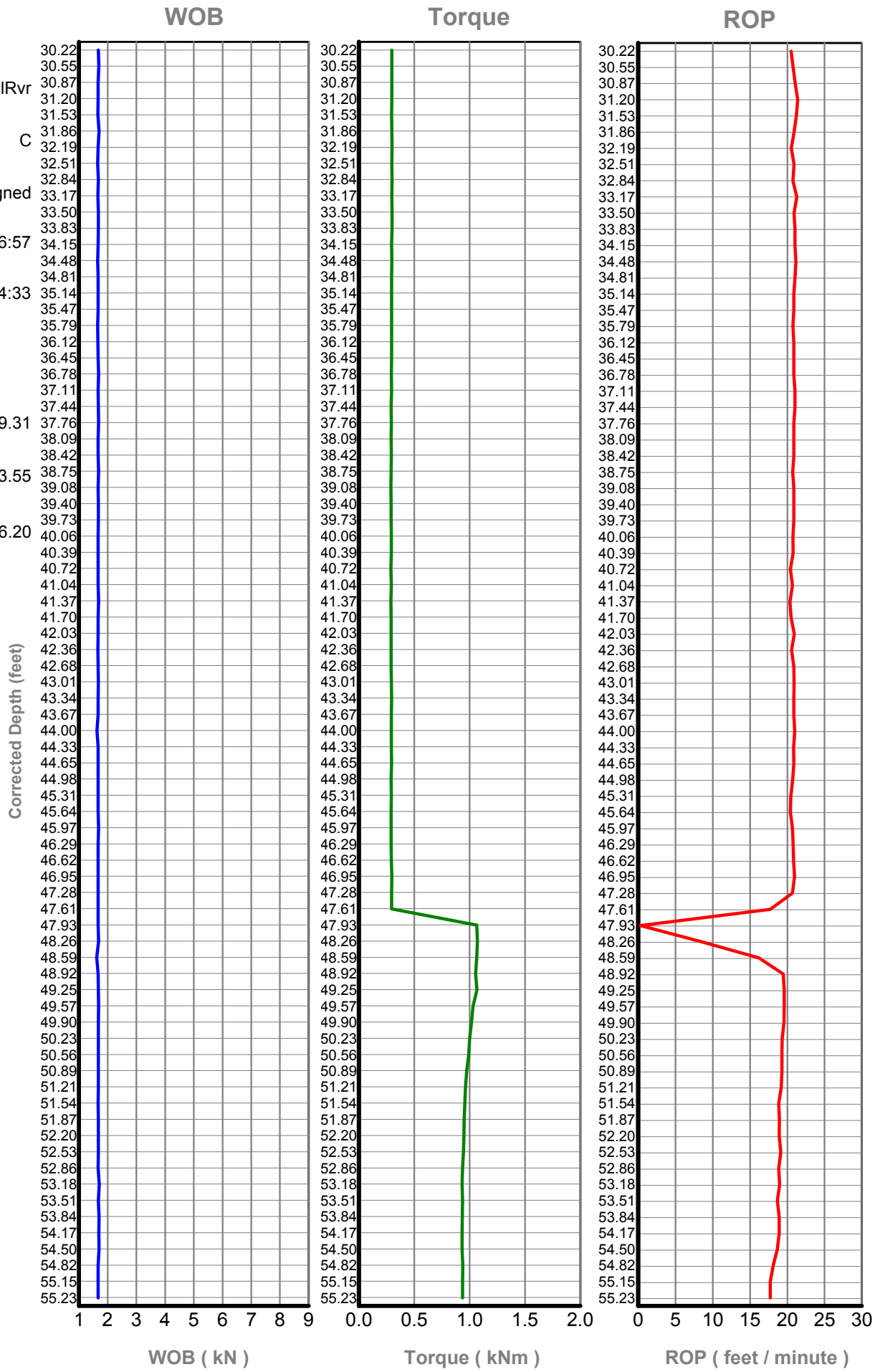
**End Date:**
4/22/2015 17:24:33

**Operator Note:**
'6.2 6.3 C Auto Complete'

**Northing:**
367,209.31

**Easting:**
252,523.55

**Tide (feet):**
6.20



## Hole: G65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:41:40 | 36.75 | 30.25 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:40 | 37.07 | 30.57 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:40 | 37.40 | 30.90 | 1,003 | 1.66 | 1.29 | 54.8 |
| 4/22/2015 16:41:41 | 37.73 | 31.23 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:41 | 38.06 | 31.56 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:41 | 38.39 | 31.89 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:42 | 38.71 | 32.21 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:41:42 | 39.04 | 32.54 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 16:41:42 | 39.37 | 32.87 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:43 | 39.70 | 33.20 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:43 | 40.03 | 33.53 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:44 | 40.35 | 33.85 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:44 | 40.68 | 34.18 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:45 | 41.01 | 34.51 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:41:45 | 41.34 | 34.84 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:41:45 | 41.67 | 35.17 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:46 | 41.99 | 35.49 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:46 | 42.32 | 35.82 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:46 | 42.65 | 36.15 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:47 | 42.98 | 36.48 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:47 | 43.31 | 36.81 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:47 | 43.64 | 37.14 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:48 | 43.96 | 37.46 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:48 | 44.29 | 37.79 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:48 | 44.62 | 38.12 | 1,007 | 1.66 | 1.29 | 55.1 |
| 4/22/2015 16:41:49 | 44.95 | 38.45 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:49 | 45.28 | 38.78 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:49 | 45.60 | 39.10 | 1,010 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:50 | 45.93 | 39.43 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:50 | 46.26 | 39.76 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:41:50 | 46.59 | 40.09 | 1,018 | 1.66 | 1.29 | 55.7 |
| 4/22/2015 16:41:51 | 46.92 | 40.42 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 16:41:51 | 47.24 | 40.74 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:52 | 47.57 | 41.07 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 16:41:52 | 47.90 | 41.40 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 16:41:52 | 48.23 | 41.73 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 16:41:53 | 48.56 | 42.06 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 16:41:53 | 48.88 | 42.38 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 16:41:53 | 49.21 | 42.71 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:41:54 | 49.54 | 43.04 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:41:54 | 49.87 | 43.37 | 1,033 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:41:54 | 50.20 | 43.70 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:41:55 | 50.53 | 44.03 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:41:55 | 50.85 | 44.35 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:41:56 | 51.18 | 44.68 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:41:56 | 51.51 | 45.01 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:41:56 | 51.84 | 45.34 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:41:57 | 52.17 | 45.67 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:41:57 | 52.49 | 45.99 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:41:57 | 52.82 | 46.32 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:41:58 | 53.15 | 46.65 | 1,044 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:41:58 | 53.48 | 46.98 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:41:58 | 53.81 | 47.31 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:41:59 | 54.13 | 47.63 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:41:59 | 54.46 | 47.96 | 1,032 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:41:59 | 54.79 | 48.29 | 1,030 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:42:00 | 55.12 | 48.62 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:42:00 | 55.45 | 48.95 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 16:42:00 | 55.77 | 49.27 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:42:01 | 56.10 | 49.60 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 16:42:01 | 56.43 | 49.93 | 1,032 | 1.66 | 1.29 | 56.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:42:01 | 56.76 | 50.26 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 | 16:42:02 | 57.09 | 50.59 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 | 16:42:02 | 57.41 | 50.91 | 1,026 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 | 16:42:02 | 57.74 | 51.24 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 | 16:42:03 | 58.07 | 51.57 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 | 16:42:03 | 58.40 | 51.90 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 | 16:42:03 | 58.73 | 52.23 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 | 16:42:04 | 59.06 | 52.56 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 | 16:42:04 | 59.38 | 52.88 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 | 16:42:04 | 59.71 | 53.21 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 | 16:42:05 | 60.04 | 53.54 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 | 16:42:05 | 60.37 | 53.87 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 | 16:42:05 | 60.70 | 54.20 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 | 16:42:11 | 61.02 | 54.52 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 | 16:42:11 | 61.35 | 54.85 | 149 | 1.66 | 1.29 | 8.1 |
| 4/22/2015 | 16:42:12 | 61.67 | 55.17 | 344 | 1.66 | 1.29 | 18.8 |

## G65 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:40:23

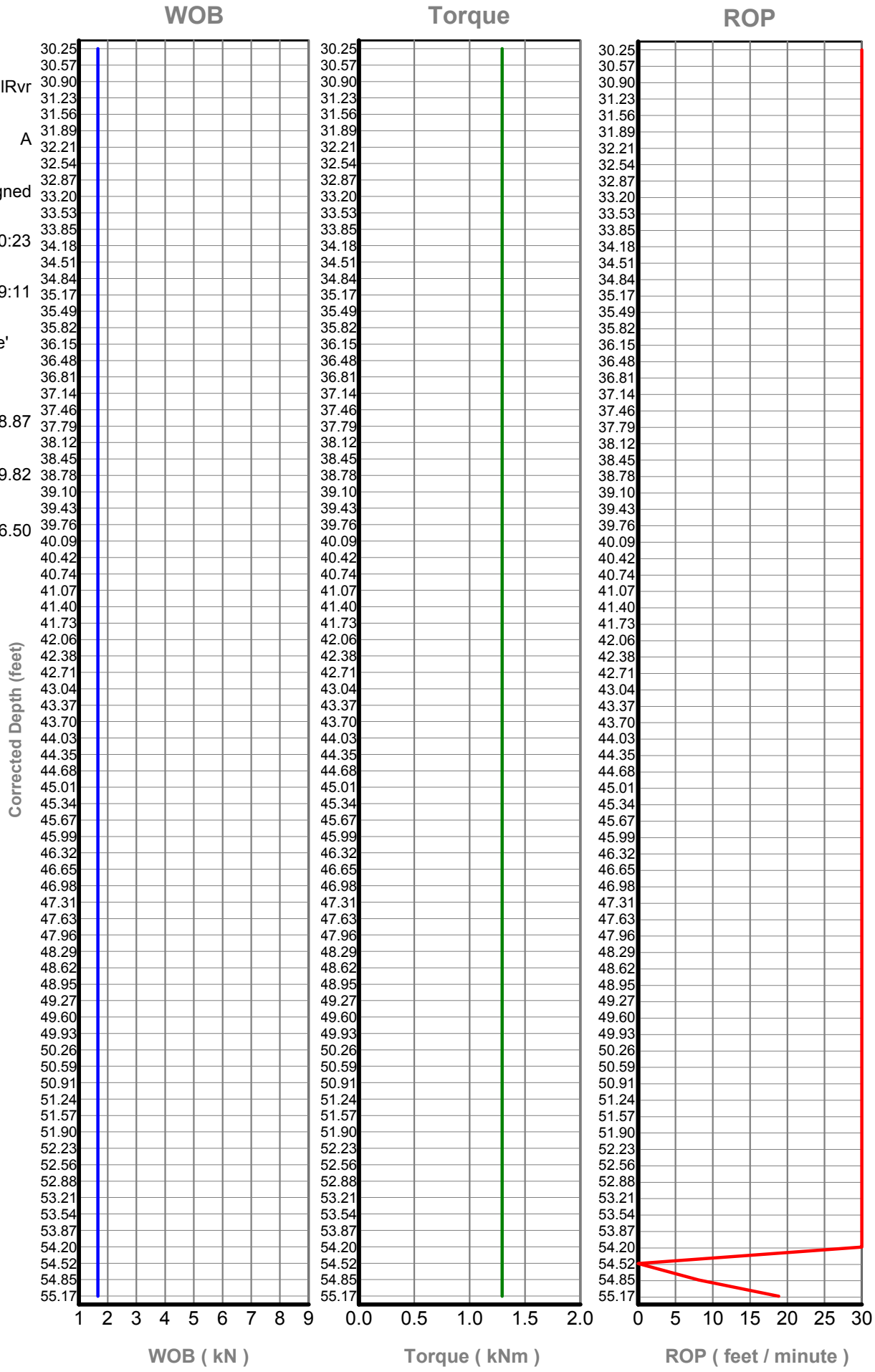
**End Date:**
4/22/2015 17:19:11

**Operator Note:**
'6.5 6.6 b Auto Complete'

**Northing:**
367,268.87

**Easting:**
252,589.82

**Tide (feet):**
6.50



## Hole: G66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:37:43 | 36.75 | 30.25 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:37:43 | 37.07 | 30.57 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:37:43 | 37.40 | 30.90 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 16:37:44 | 37.73 | 31.23 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:37:44 | 38.06 | 31.56 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:37:44 | 38.39 | 31.89 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:37:45 | 38.71 | 32.21 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:37:45 | 39.04 | 32.54 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 16:37:45 | 39.37 | 32.87 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:37:46 | 39.70 | 33.20 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:37:46 | 40.03 | 33.53 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 16:37:46 | 40.35 | 33.85 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 16:37:47 | 40.68 | 34.18 | 1,025 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:37:47 | 41.01 | 34.51 | 1,025 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 16:37:47 | 41.34 | 34.84 | 1,034 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:37:48 | 41.67 | 35.17 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 16:37:48 | 41.99 | 35.49 | 1,023 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 16:37:48 | 42.32 | 35.82 | 1,048 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:37:49 | 42.65 | 36.15 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 16:37:49 | 42.98 | 36.48 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 16:37:49 | 43.31 | 36.81 | 1,045 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 16:37:50 | 43.64 | 37.14 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:37:50 | 43.96 | 37.46 | 1,047 | 1.66 | 1.29 | 57.3 |
| 4/22/2015 16:37:50 | 44.29 | 37.79 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:37:51 | 44.62 | 38.12 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 16:37:51 | 44.95 | 38.45 | 1,062 | 1.66 | 1.29 | 58.1 |
| 4/22/2015 16:37:51 | 45.28 | 38.78 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:37:52 | 45.60 | 39.10 | 1,055 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:37:52 | 45.93 | 39.43 | 1,059 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:37:53 | 46.26 | 39.76 | 1,052 | 1.66 | 1.29 | 57.5 |
| 4/22/2015 16:37:53 | 46.59 | 40.09 | 1,052 | 1.66 | 1.29 | 57.5 |
| 4/22/2015 16:37:53 | 46.92 | 40.42 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:37:54 | 47.24 | 40.74 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:37:54 | 47.57 | 41.07 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:37:54 | 47.90 | 41.40 | 1,056 | 1.66 | 1.29 | 57.7 |
| 4/22/2015 16:37:55 | 48.23 | 41.73 | 1,052 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:37:55 | 48.56 | 42.06 | 1,052 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:37:55 | 48.88 | 42.38 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:37:56 | 49.21 | 42.71 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:37:56 | 49.54 | 43.04 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:37:56 | 49.87 | 43.37 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 16:37:57 | 50.20 | 43.70 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:37:57 | 50.53 | 44.03 | 1,054 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 16:37:57 | 50.85 | 44.35 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:37:58 | 51.18 | 44.68 | 1,060 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:37:58 | 51.51 | 45.01 | 1,060 | 1.66 | 1.29 | 57.9 |
| 4/22/2015 16:37:58 | 51.84 | 45.34 | 1,046 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 16:37:59 | 52.17 | 45.67 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:37:59 | 52.49 | 45.99 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:37:59 | 52.82 | 46.32 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:38:00 | 53.15 | 46.65 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:38:00 | 53.48 | 46.98 | 1,039 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 16:38:00 | 53.81 | 47.31 | 1,040 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 16:38:01 | 54.13 | 47.63 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:38:01 | 54.46 | 47.96 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 16:38:01 | 54.79 | 48.29 | 1,034 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 16:38:02 | 55.12 | 48.62 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:38:02 | 55.45 | 48.95 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 16:38:09 | 55.77 | 49.27 | 26 | 1.66 | 1.29 | 1.4 |
| 4/22/2015 16:38:09 | 56.10 | 49.60 | 182 | 1.66 | 1.29 | 10.0 |
| 4/22/2015 16:38:10 | 56.43 | 49.93 | 317 | 1.66 | 1.29 | 17.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:38:10 | 56.76 | 50.26 | 396 | 1.66 | 1.29 | 21.7 |
| 4/22/2015 | 16:38:11 | 57.09 | 50.59 | 545 | 1.66 | 1.29 | 29.8 |
| 4/22/2015 | 16:38:11 | 57.41 | 50.91 | 651 | 1.66 | 1.29 | 35.6 |
| 4/22/2015 | 16:38:12 | 57.74 | 51.24 | 632 | 1.66 | 1.29 | 34.5 |
| 4/22/2015 | 16:38:12 | 58.07 | 51.57 | 657 | 1.66 | 1.29 | 35.9 |
| 4/22/2015 | 16:38:13 | 58.40 | 51.90 | 721 | 1.66 | 1.29 | 39.4 |
| 4/22/2015 | 16:38:13 | 58.73 | 52.23 | 710 | 1.66 | 1.29 | 38.8 |
| 4/22/2015 | 16:38:14 | 59.06 | 52.56 | 704 | 1.66 | 1.29 | 38.5 |
| 4/22/2015 | 16:38:14 | 59.38 | 52.88 | 724 | 1.66 | 1.29 | 39.6 |
| 4/22/2015 | 16:38:15 | 59.71 | 53.21 | 738 | 1.66 | 1.29 | 40.4 |
| 4/22/2015 | 16:38:16 | 60.04 | 53.54 | 771 | 1.66 | 1.29 | 42.2 |
| 4/22/2015 | 16:38:16 | 60.37 | 53.87 | 771 | 1.66 | 1.29 | 42.2 |
| 4/22/2015 | 16:38:16 | 60.70 | 54.20 | 802 | 1.66 | 1.29 | 43.9 |
| 4/22/2015 | 16:38:17 | 61.02 | 54.52 | 847 | 1.66 | 1.29 | 46.3 |
| 4/22/2015 | 16:38:18 | 61.35 | 54.85 | 662 | 1.66 | 1.29 | 36.2 |
| 4/22/2015 | 16:38:20 | 61.67 | 55.17 | 198 | 1.66 | 1.29 | 10.8 |

## G66 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:34:33

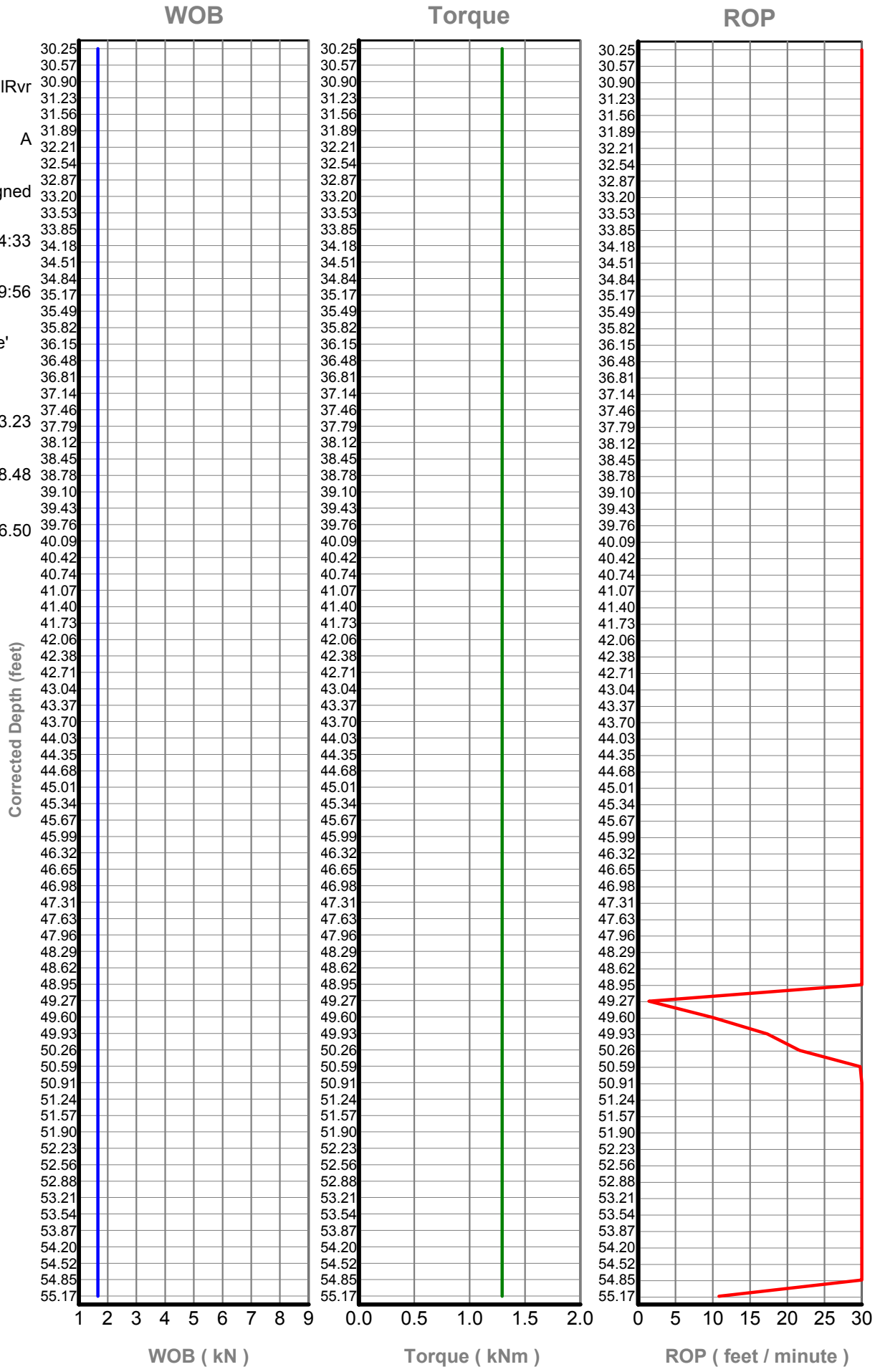
**End Date:**
4/22/2015 16:39:56

**Operator Note:**
'6.5 6.6 b Auto Complete'

**Northing:**
367,303.23

**Easting:**
252,638.48

**Tide (feet):**
6.50



## Hole: G67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 16:40:24 | 36.75 | 30.25 | 391 | 1.66 | 0.29 | 21.4 |
| 4/22/2015 16:40:25 | 37.07 | 30.57 | 395 | 1.66 | 0.29 | 21.6 |
| 4/22/2015 16:40:26 | 37.40 | 30.90 | 390 | 1.64 | 0.29 | 21.3 |
| 4/22/2015 16:40:27 | 37.73 | 31.23 | 393 | 1.66 | 0.29 | 21.5 |
| 4/22/2015 16:40:28 | 38.06 | 31.56 | 385 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 16:40:29 | 38.39 | 31.89 | 389 | 1.66 | 0.29 | 21.3 |
| 4/22/2015 16:40:30 | 38.71 | 32.21 | 387 | 1.69 | 0.29 | 21.1 |
| 4/22/2015 16:40:31 | 39.04 | 32.54 | 395 | 1.64 | 0.29 | 21.6 |
| 4/22/2015 16:40:31 | 39.37 | 32.87 | 393 | 1.67 | 0.29 | 21.5 |
| 4/22/2015 16:40:32 | 39.70 | 33.20 | 393 | 1.68 | 0.29 | 21.5 |
| 4/22/2015 16:40:33 | 40.03 | 33.53 | 390 | 1.66 | 0.29 | 21.3 |
| 4/22/2015 16:40:34 | 40.35 | 33.85 | 384 | 1.66 | 0.29 | 21.0 |
| 4/22/2015 16:40:35 | 40.68 | 34.18 | 379 | 1.64 | 0.29 | 20.7 |
| 4/22/2015 16:40:36 | 41.01 | 34.51 | 379 | 1.66 | 0.29 | 20.7 |
| 4/22/2015 16:40:37 | 41.34 | 34.84 | 383 | 1.68 | 0.29 | 20.9 |
| 4/22/2015 16:40:38 | 41.67 | 35.17 | 386 | 1.66 | 0.29 | 21.1 |
| 4/22/2015 16:40:39 | 41.99 | 35.49 | 384 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 16:40:40 | 42.32 | 35.82 | 378 | 1.65 | 0.29 | 20.7 |
| 4/22/2015 16:40:41 | 42.65 | 36.15 | 385 | 1.66 | 0.29 | 21.1 |
| 4/22/2015 16:40:42 | 42.98 | 36.48 | 385 | 1.65 | 0.29 | 21.1 |
| 4/22/2015 16:40:43 | 43.31 | 36.81 | 398 | 1.66 | 0.29 | 21.8 |
| 4/22/2015 16:40:43 | 43.64 | 37.14 | 388 | 1.66 | 0.30 | 21.2 |
| 4/22/2015 16:40:44 | 43.96 | 37.46 | 387 | 1.65 | 0.29 | 21.2 |
| 4/22/2015 16:40:45 | 44.29 | 37.79 | 387 | 1.64 | 0.29 | 21.2 |
| 4/22/2015 16:40:46 | 44.62 | 38.12 | 385 | 1.66 | 0.29 | 21.1 |
| 4/22/2015 16:40:47 | 44.95 | 38.45 | 383 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 16:40:48 | 45.28 | 38.78 | 385 | 1.65 | 0.29 | 21.0 |
| 4/22/2015 16:40:49 | 45.60 | 39.10 | 385 | 1.64 | 0.29 | 21.1 |
| 4/22/2015 16:40:50 | 45.93 | 39.43 | 390 | 1.66 | 0.29 | 21.3 |
| 4/22/2015 16:40:51 | 46.26 | 39.76 | 390 | 1.66 | 0.29 | 21.3 |
| 4/22/2015 16:40:52 | 46.59 | 40.09 | 390 | 1.65 | 0.29 | 21.3 |
| 4/22/2015 16:40:53 | 46.92 | 40.42 | 387 | 1.66 | 0.29 | 21.2 |
| 4/22/2015 16:40:54 | 47.24 | 40.74 | 387 | 1.67 | 0.29 | 21.2 |
| 4/22/2015 16:40:55 | 47.57 | 41.07 | 383 | 1.66 | 0.29 | 20.9 |
| 4/22/2015 16:40:55 | 47.90 | 41.40 | 379 | 1.64 | 0.29 | 20.7 |
| 4/22/2015 16:40:56 | 48.23 | 41.73 | 385 | 1.67 | 0.29 | 21.1 |
| 4/22/2015 16:40:57 | 48.56 | 42.06 | 383 | 1.66 | 0.30 | 21.0 |
| 4/22/2015 16:40:59 | 48.88 | 42.38 | 384 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 16:40:59 | 49.21 | 42.71 | 384 | 1.66 | 0.29 | 21.0 |
| 4/22/2015 16:41:00 | 49.54 | 43.04 | 390 | 1.64 | 0.29 | 21.3 |
| 4/22/2015 16:41:01 | 49.87 | 43.37 | 380 | 1.65 | 0.29 | 20.8 |
| 4/22/2015 16:41:02 | 50.20 | 43.70 | 384 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 16:41:03 | 50.53 | 44.03 | 382 | 1.67 | 0.29 | 20.9 |
| 4/22/2015 16:41:04 | 50.85 | 44.35 | 388 | 1.66 | 0.29 | 21.2 |
| 4/22/2015 16:41:05 | 51.18 | 44.68 | 385 | 1.66 | 0.29 | 21.0 |
| 4/22/2015 16:41:06 | 51.51 | 45.01 | 387 | 1.65 | 0.29 | 21.2 |
| 4/22/2015 16:41:07 | 51.84 | 45.34 | 384 | 1.66 | 0.29 | 21.0 |
| 4/22/2015 16:41:07 | 52.17 | 45.67 | 384 | 1.68 | 0.29 | 21.0 |
| 4/22/2015 16:41:09 | 52.49 | 45.99 | 387 | 1.65 | 0.29 | 21.2 |
| 4/22/2015 16:41:10 | 52.82 | 46.32 | 379 | 1.66 | 0.29 | 20.7 |
| 4/22/2015 16:41:11 | 53.15 | 46.65 | 380 | 1.65 | 0.29 | 20.8 |
| 4/22/2015 16:41:12 | 53.48 | 46.98 | 380 | 1.66 | 0.29 | 20.8 |
| 4/22/2015 16:41:12 | 53.81 | 47.31 | 380 | 1.66 | 0.29 | 20.8 |
| 4/22/2015 16:41:13 | 54.13 | 47.63 | 380 | 1.65 | 0.29 | 20.8 |
| 4/22/2015 16:41:14 | 54.46 | 47.96 | 375 | 1.66 | 0.29 | 20.5 |
| 4/22/2015 16:41:15 | 54.79 | 48.29 | 364 | 1.64 | 0.29 | 19.9 |
| 4/22/2015 16:41:16 | 55.12 | 48.62 | 344 | 1.65 | 0.29 | 18.8 |
| 4/22/2015 16:41:17 | 55.45 | 48.95 | 335 | 1.66 | 0.29 | 18.3 |
| 4/22/2015 16:41:18 | 55.77 | 49.27 | 332 | 1.65 | 0.29 | 18.2 |
| 4/22/2015 16:41:20 | 56.10 | 49.60 | 321 | 1.66 | 0.29 | 17.5 |
| 4/22/2015 16:41:21 | 56.43 | 49.93 | 310 | 1.64 | 0.29 | 17.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 16:41:22 | 56.76 | 50.26 | 308 | 1.65 | 0.29 | 16.8 |
| 4/22/2015 | 16:41:23 | 57.09 | 50.59 | 303 | 1.66 | 0.29 | 16.6 |
| 4/22/2015 | 16:41:25 | 57.41 | 50.91 | 299 | 1.66 | 0.29 | 16.3 |
| 4/22/2015 | 16:41:26 | 57.74 | 51.24 | 263 | 1.67 | 0.29 | 14.4 |
| 4/22/2015 | 16:41:28 | 58.07 | 51.57 | 240 | 1.66 | 0.29 | 13.1 |
| 4/22/2015 | 16:41:42 | 58.40 | 51.90 | 3 | 1.21 | 0.99 | 0.1 |
| 4/22/2015 | 16:41:43 | 58.73 | 52.23 | 88 | 1.64 | 1.02 | 4.8 |
| 4/22/2015 | 16:41:44 | 59.06 | 52.56 | 234 | 1.66 | 1.04 | 12.8 |
| 4/22/2015 | 16:41:45 | 59.38 | 52.88 | 370 | 1.66 | 1.05 | 20.2 |
| 4/22/2015 | 16:41:46 | 59.71 | 53.21 | 364 | 1.64 | 1.06 | 19.9 |
| 4/22/2015 | 16:41:47 | 60.04 | 53.54 | 361 | 1.66 | 1.06 | 19.8 |
| 4/22/2015 | 16:41:48 | 60.37 | 53.87 | 357 | 1.67 | 1.06 | 19.5 |
| 4/22/2015 | 16:41:49 | 60.70 | 54.20 | 356 | 1.66 | 1.06 | 19.5 |
| 4/22/2015 | 16:41:50 | 61.02 | 54.52 | 353 | 1.66 | 1.04 | 19.3 |
| 4/22/2015 | 16:41:51 | 61.35 | 54.85 | 353 | 1.64 | 1.05 | 19.3 |
| 4/22/2015 | 16:41:52 | 61.68 | 55.18 | 350 | 1.66 | 1.06 | 19.1 |
| 4/22/2015 | 16:41:53 | 62.01 | 55.51 | 339 | 1.67 | 1.04 | 18.5 |
| 4/22/2015 | 16:41:54 | 62.34 | 55.84 | 335 | 1.66 | 1.02 | 18.3 |
| 4/22/2015 | 16:41:55 | 62.66 | 56.16 | 327 | 1.66 | 1.02 | 17.9 |
| 4/22/2015 | 16:41:56 | 62.99 | 56.49 | 315 | 1.58 | 1.02 | 17.2 |
| 4/22/2015 | 16:41:57 | 63.12 | 56.62 | 309 | 1.56 | 1.02 | 16.9 |

## G67 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 16:37:55

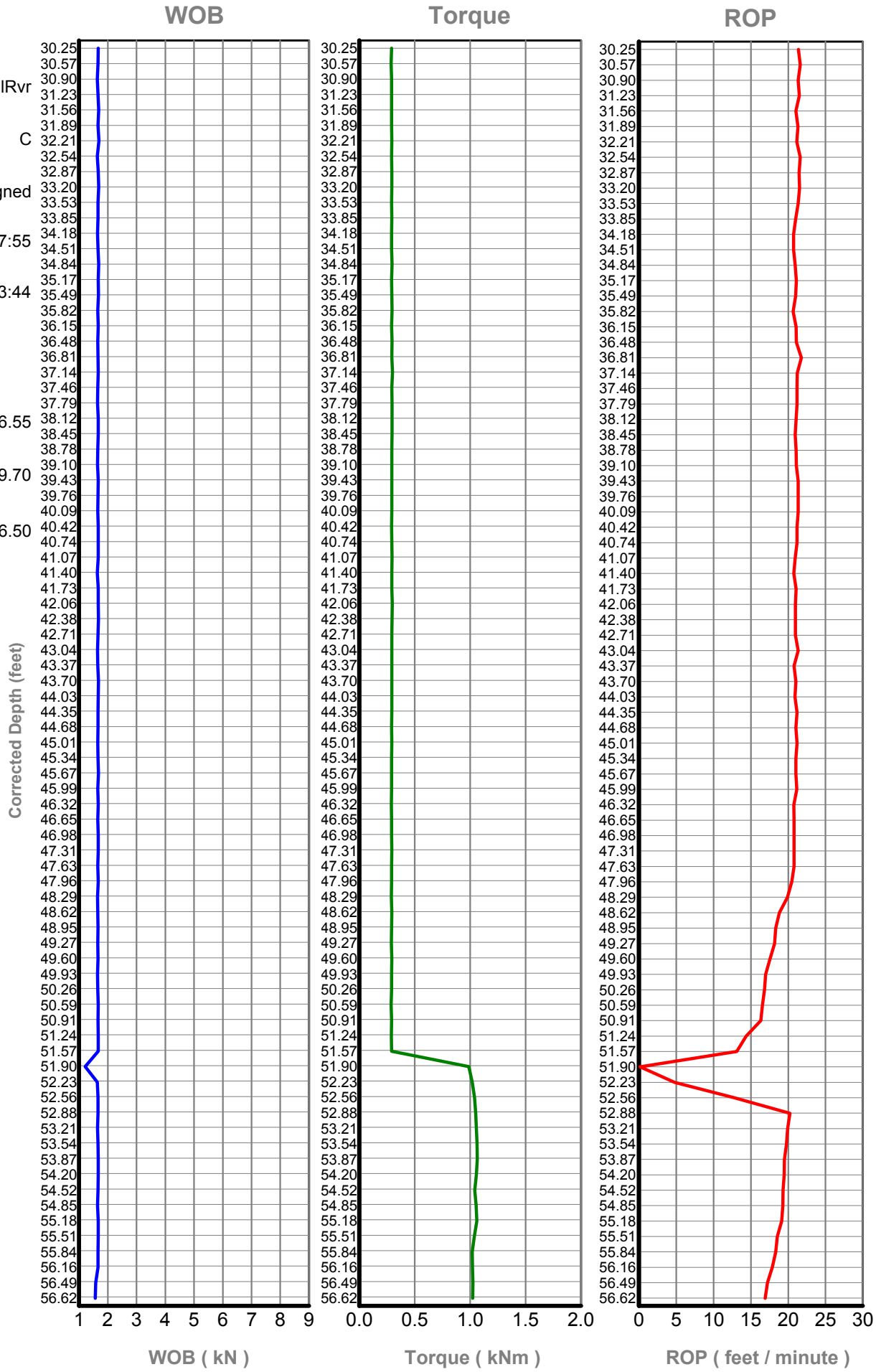
**End Date:**
4/22/2015 16:43:44

**Operator Note:**
'6.5 6.6 C Auto Complete'

**Northing:**
367,346.55

**Easting:**
252,699.70

**Tide (feet):**
6.50



## Hole: G7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:45:07 | 36.09 | 30.29 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 14:45:07 | 36.42 | 30.62 | 998 | 1.66 | 1.29 | 54.6 |
| 4/22/2015 14:45:07 | 36.75 | 30.95 | 983 | 1.66 | 1.29 | 53.8 |
| 4/22/2015 14:45:08 | 37.07 | 31.27 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:08 | 37.40 | 31.60 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 14:45:09 | 37.73 | 31.93 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 14:45:09 | 38.06 | 32.26 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:45:09 | 38.39 | 32.59 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 14:45:10 | 38.71 | 32.91 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 14:45:10 | 39.04 | 33.24 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:10 | 39.37 | 33.57 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:11 | 39.70 | 33.90 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:11 | 40.03 | 34.23 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:11 | 40.35 | 34.55 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:12 | 40.68 | 34.88 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:12 | 41.01 | 35.21 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:45:12 | 41.34 | 35.54 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 14:45:13 | 41.67 | 35.87 | 1,009 | 1.66 | 1.29 | 55.2 |
| 4/22/2015 14:45:13 | 41.99 | 36.19 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 14:45:13 | 42.32 | 36.52 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:45:14 | 42.65 | 36.85 | 1,021 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:45:14 | 42.98 | 37.18 | 1,023 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:45:14 | 43.31 | 37.51 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:45:15 | 43.64 | 37.84 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:45:15 | 43.96 | 38.16 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:45:15 | 44.29 | 38.49 | 1,015 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 14:45:16 | 44.62 | 38.82 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:45:16 | 44.95 | 39.15 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:45:16 | 45.28 | 39.48 | 1,006 | 1.66 | 1.29 | 55.0 |
| 4/22/2015 14:45:17 | 45.60 | 39.80 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 14:45:18 | 45.93 | 40.13 | 1,003 | 1.66 | 1.29 | 54.9 |
| 4/22/2015 14:45:18 | 46.26 | 40.46 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:45:18 | 46.59 | 40.79 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:45:19 | 46.92 | 41.12 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:45:19 | 47.24 | 41.44 | 997 | 1.66 | 1.29 | 54.5 |
| 4/22/2015 14:45:19 | 47.57 | 41.77 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:20 | 47.90 | 42.10 | 991 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:20 | 48.23 | 42.43 | 994 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 14:45:20 | 48.56 | 42.76 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 14:45:21 | 48.88 | 43.08 | 988 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 14:45:21 | 49.21 | 43.41 | 988 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 14:45:21 | 49.54 | 43.74 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:22 | 49.87 | 44.07 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:22 | 50.20 | 44.40 | 992 | 1.66 | 1.29 | 54.2 |
| 4/22/2015 14:45:22 | 50.53 | 44.73 | 989 | 1.66 | 1.29 | 54.1 |
| 4/22/2015 14:45:23 | 50.85 | 45.05 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 14:45:23 | 51.18 | 45.38 | 986 | 1.66 | 1.29 | 53.9 |
| 4/22/2015 14:45:23 | 51.51 | 45.71 | 995 | 1.66 | 1.29 | 54.4 |
| 4/22/2015 14:45:24 | 51.84 | 46.04 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 14:45:24 | 52.17 | 46.37 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 14:45:25 | 52.49 | 46.69 | 988 | 1.66 | 1.29 | 54.0 |
| 4/22/2015 14:45:32 | 52.82 | 47.02 | 16 | 1.66 | 1.29 | 0.9 |
| 4/22/2015 14:45:33 | 53.15 | 47.35 | 154 | 1.66 | 1.29 | 8.4 |
| 4/22/2015 14:45:35 | 53.48 | 47.68 | 262 | 1.66 | 1.29 | 14.4 |
| 4/22/2015 14:45:36 | 53.81 | 48.01 | 262 | 1.66 | 1.29 | 14.4 |
| 4/22/2015 14:45:42 | 54.13 | 48.33 | 10 | 1.66 | 1.29 | 0.6 |
| 4/22/2015 14:45:43 | 54.46 | 48.66 | 87 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 14:45:44 | 54.79 | 48.99 | 148 | 1.66 | 1.29 | 8.1 |
| 4/22/2015 14:45:45 | 55.12 | 49.32 | 325 | 1.66 | 1.29 | 17.8 |
| 4/22/2015 14:45:46 | 55.45 | 49.65 | 399 | 1.66 | 1.29 | 21.8 |
| 4/22/2015 14:45:47 | 55.77 | 49.97 | 418 | 1.66 | 1.29 | 22.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 14:45:48 | 56.10 | 50.30 | 395 | 1.66 | 1.29 | 21.6 |
| 4/22/2015 | 14:45:49 | 56.43 | 50.63 | 375 | 1.66 | 1.29 | 20.5 |
| 4/22/2015 | 14:45:50 | 56.76 | 50.96 | 344 | 1.66 | 1.29 | 18.8 |
| 4/22/2015 | 14:45:53 | 57.09 | 51.29 | 206 | 1.66 | 1.29 | 11.3 |
| 4/22/2015 | 14:45:57 | 57.41 | 51.61 | 90 | 1.66 | 1.29 | 4.9 |
| 4/22/2015 | 14:46:01 | 57.74 | 51.94 | 77 | 1.66 | 1.29 | 4.2 |
| 4/22/2015 | 14:46:07 | 58.07 | 52.27 | 74 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 14:46:12 | 58.40 | 52.60 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 14:46:17 | 58.73 | 52.93 | 79 | 1.66 | 1.29 | 4.3 |
| 4/22/2015 | 14:46:21 | 59.06 | 53.26 | 70 | 1.66 | 1.29 | 3.8 |
| 4/22/2015 | 14:46:26 | 59.38 | 53.58 | 75 | 1.66 | 1.29 | 4.1 |
| 4/22/2015 | 14:46:29 | 59.54 | 53.74 | 74 | 1.66 | 1.29 | 4.0 |

## G7 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 14:43:11

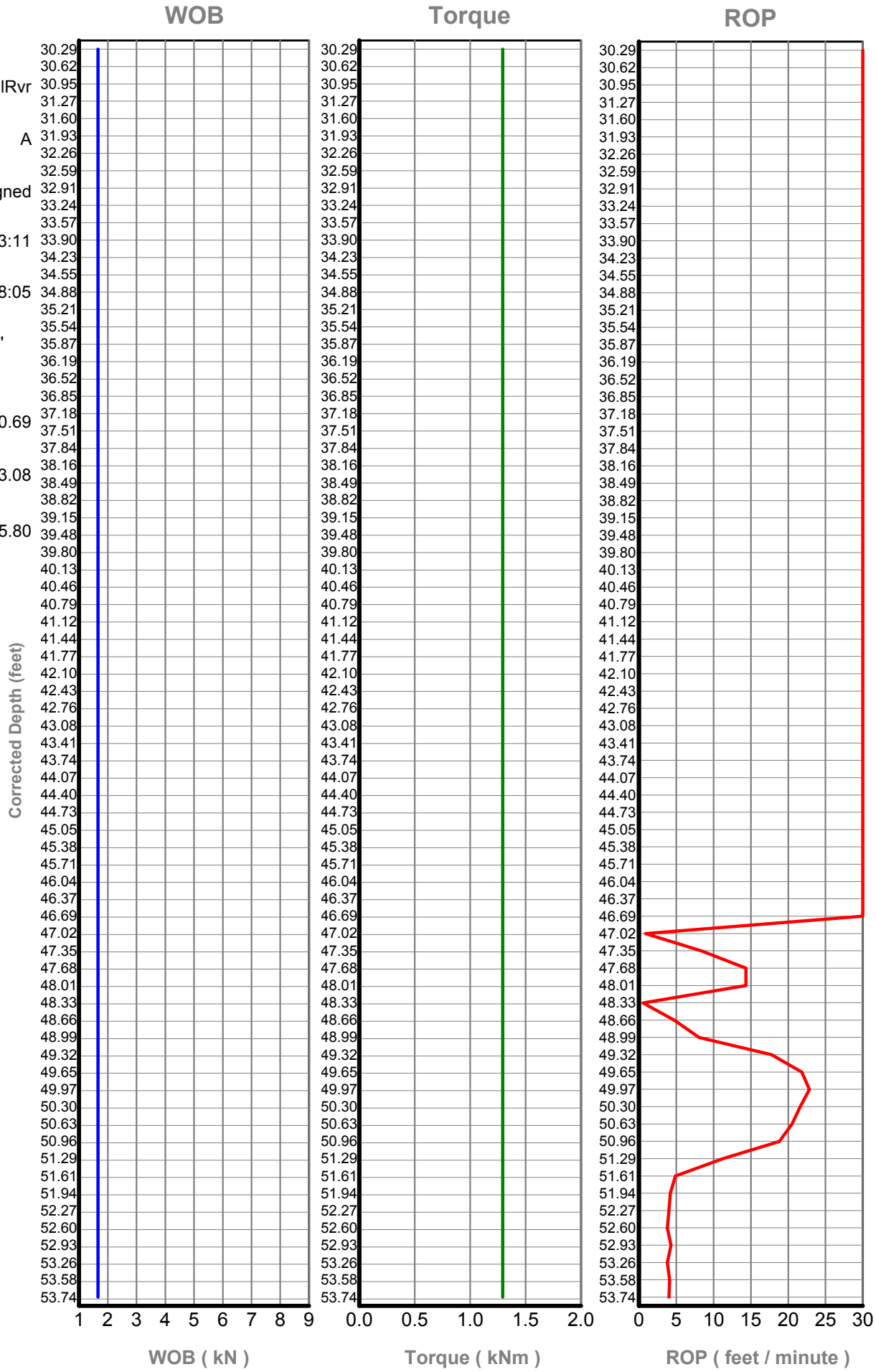
**End Date:**
4/22/2015 14:48:05

**Operator Note:**
'5.8 5.6b Auto Complete'

**Northing:**
367,630.69

**Easting:**
252,323.08

**Tide (feet):**
5.80



## Hole: G8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:51:28 | 36.09 | 30.19 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 14:51:28 | 36.42 | 30.52 | 1,053 | 1.66 | 1.29 | 57.6 |
| 4/22/2015 14:51:28 | 36.75 | 30.85 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:29 | 37.07 | 31.17 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:29 | 37.40 | 31.50 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:29 | 37.73 | 31.83 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 14:51:30 | 38.06 | 32.16 | 1,056 | 1.66 | 1.29 | 57.8 |
| 4/22/2015 14:51:30 | 38.39 | 32.49 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:51:30 | 38.71 | 32.81 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 14:51:31 | 39.04 | 33.14 | 1,047 | 1.66 | 1.29 | 57.2 |
| 4/22/2015 14:51:31 | 39.37 | 33.47 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 14:51:32 | 39.70 | 33.80 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:32 | 40.03 | 34.13 | 1,049 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:32 | 40.35 | 34.45 | 1,043 | 1.66 | 1.29 | 57.1 |
| 4/22/2015 14:51:33 | 40.68 | 34.78 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:33 | 41.01 | 35.11 | 1,050 | 1.66 | 1.29 | 57.4 |
| 4/22/2015 14:51:33 | 41.34 | 35.44 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:51:34 | 41.67 | 35.77 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:51:34 | 41.99 | 36.09 | 1,041 | 1.66 | 1.29 | 56.9 |
| 4/22/2015 14:51:34 | 42.32 | 36.42 | 1,032 | 1.66 | 1.29 | 56.4 |
| 4/22/2015 14:51:35 | 42.65 | 36.75 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 14:51:35 | 42.98 | 37.08 | 1,038 | 1.66 | 1.29 | 56.8 |
| 4/22/2015 14:51:35 | 43.31 | 37.41 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:36 | 43.64 | 37.74 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:36 | 43.96 | 38.06 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:36 | 44.29 | 38.39 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:37 | 44.62 | 38.72 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:37 | 44.95 | 39.05 | 1,035 | 1.66 | 1.29 | 56.6 |
| 4/22/2015 14:51:37 | 45.28 | 39.38 | 1,029 | 1.66 | 1.29 | 56.3 |
| 4/22/2015 14:51:38 | 45.60 | 39.70 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:51:38 | 45.93 | 40.03 | 1,020 | 1.66 | 1.29 | 55.8 |
| 4/22/2015 14:51:38 | 46.26 | 40.36 | 1,027 | 1.66 | 1.29 | 56.1 |
| 4/22/2015 14:51:39 | 46.59 | 40.69 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:51:39 | 46.92 | 41.02 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:51:39 | 47.24 | 41.34 | 1,025 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:51:40 | 47.57 | 41.67 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:51:40 | 47.90 | 42.00 | 1,000 | 1.66 | 1.29 | 54.7 |
| 4/22/2015 14:51:40 | 48.23 | 42.33 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:51:41 | 48.56 | 42.66 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:51:41 | 48.88 | 42.98 | 1,013 | 1.66 | 1.29 | 55.4 |
| 4/22/2015 14:51:41 | 49.21 | 43.31 | 1,016 | 1.66 | 1.29 | 55.5 |
| 4/22/2015 14:51:42 | 49.54 | 43.64 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 14:51:43 | 49.87 | 43.97 | 1,022 | 1.66 | 1.29 | 55.9 |
| 4/22/2015 14:51:43 | 50.20 | 44.30 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:51:43 | 50.53 | 44.63 | 1,034 | 1.66 | 1.29 | 56.5 |
| 4/22/2015 14:51:44 | 50.85 | 44.95 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:51:44 | 51.18 | 45.28 | 1,024 | 1.66 | 1.29 | 56.0 |
| 4/22/2015 14:51:44 | 51.51 | 45.61 | 1,012 | 1.66 | 1.29 | 55.3 |
| 4/22/2015 14:51:45 | 51.84 | 45.94 | 1,017 | 1.66 | 1.29 | 55.6 |
| 4/22/2015 14:51:53 | 52.17 | 46.27 | 0 | 1.66 | 1.29 | 0.0 |
| 4/22/2015 14:51:55 | 52.49 | 46.59 | 92 | 1.66 | 1.29 | 5.1 |
| 4/22/2015 14:51:58 | 52.82 | 46.92 | 85 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 14:52:01 | 53.15 | 47.25 | 119 | 1.66 | 1.29 | 6.5 |
| 4/22/2015 14:52:02 | 53.48 | 47.58 | 169 | 1.66 | 1.29 | 9.3 |
| 4/22/2015 14:52:19 | 53.81 | 47.91 | 6 | 1.66 | 1.29 | 0.3 |
| 4/22/2015 14:52:21 | 54.13 | 48.23 | 127 | 1.66 | 1.29 | 6.9 |
| 4/22/2015 14:52:21 | 54.46 | 48.56 | 192 | 1.66 | 1.29 | 10.5 |
| 4/22/2015 14:52:22 | 54.79 | 48.89 | 355 | 1.66 | 1.29 | 19.4 |
| 4/22/2015 14:52:23 | 55.12 | 49.22 | 425 | 1.66 | 1.29 | 23.2 |
| 4/22/2015 14:52:25 | 55.45 | 49.55 | 85 | 1.66 | 1.29 | 4.7 |
| 4/22/2015 14:52:26 | 55.77 | 49.87 | 106 | 1.66 | 1.29 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 14:52:26 | 56.10 | 50.20 | 265 | 1.66 | 1.29 | 14.5 |
| 4/22/2015 | 14:52:27 | 56.43 | 50.53 | 413 | 1.66 | 1.29 | 22.6 |
| 4/22/2015 | 14:52:27 | 56.76 | 50.86 | 557 | 1.66 | 1.29 | 30.5 |
| 4/22/2015 | 14:52:29 | 57.09 | 51.19 | 598 | 1.66 | 1.29 | 32.7 |
| 4/22/2015 | 14:52:30 | 57.41 | 51.51 | 448 | 1.66 | 1.29 | 24.5 |
| 4/22/2015 | 14:52:31 | 57.74 | 51.84 | 326 | 1.66 | 1.29 | 17.8 |
| 4/22/2015 | 14:52:33 | 58.07 | 52.17 | 257 | 1.66 | 1.29 | 14.1 |
| 4/22/2015 | 14:52:34 | 58.40 | 52.50 | 263 | 1.66 | 1.29 | 14.4 |
| 4/22/2015 | 14:52:35 | 58.73 | 52.83 | 256 | 1.66 | 1.29 | 14.0 |
| 4/22/2015 | 14:52:37 | 59.06 | 53.16 | 233 | 1.66 | 1.29 | 12.7 |
| 4/22/2015 | 14:52:38 | 59.38 | 53.48 | 246 | 1.66 | 1.29 | 13.4 |
| 4/22/2015 | 14:52:44 | 59.71 | 53.81 | 67 | 1.66 | 1.29 | 3.7 |
| 4/22/2015 | 14:52:49 | 60.04 | 54.14 | 72 | 1.66 | 1.29 | 4.0 |
| 4/22/2015 | 14:52:53 | 60.37 | 54.47 | 88 | 1.66 | 1.29 | 4.8 |
| 4/22/2015 | 14:52:56 | 60.59 | 54.69 | 75 | 1.66 | 1.29 | 4.1 |

## G8 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/22/2015 14:50:01

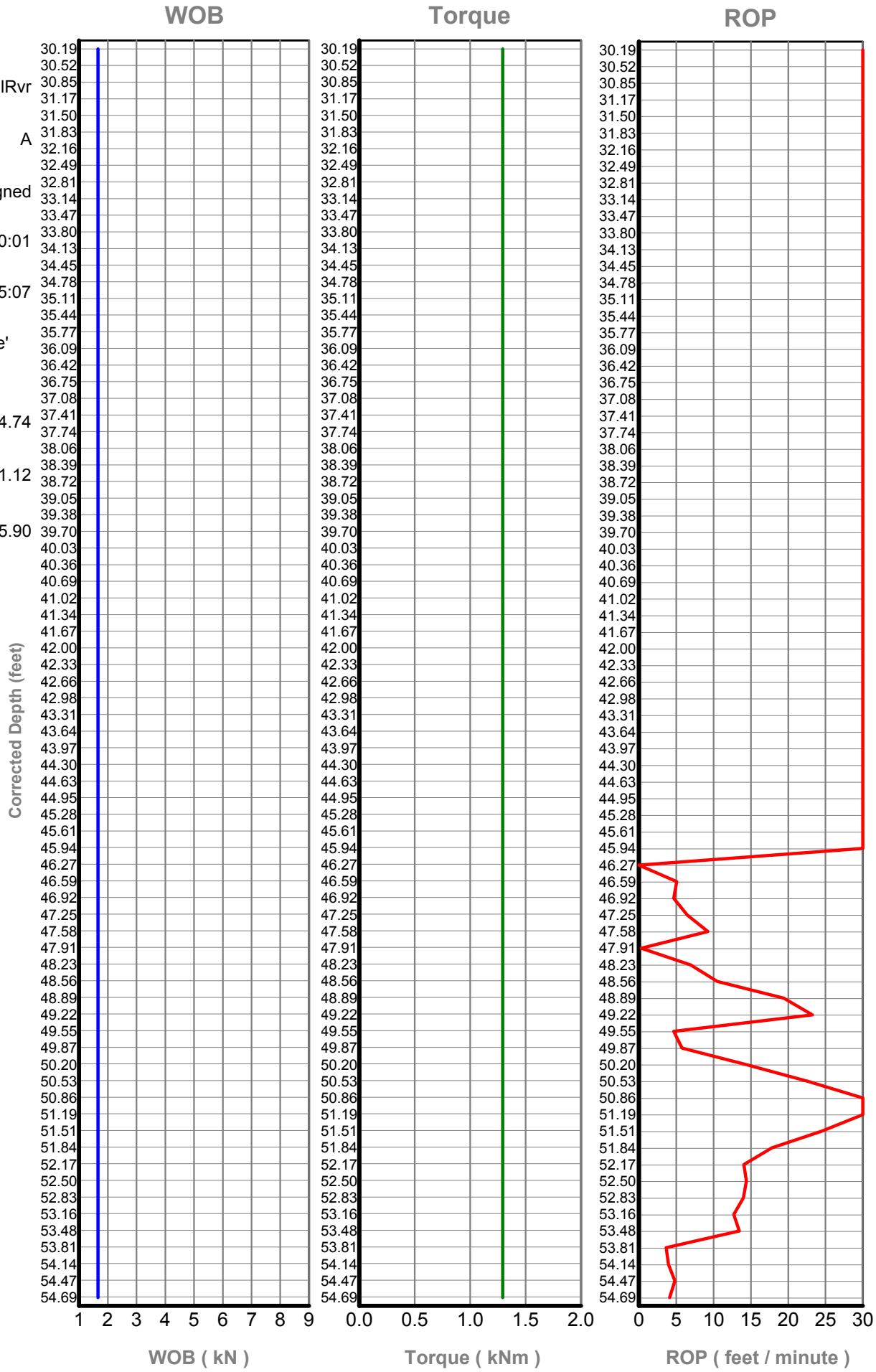
**End Date:**
4/22/2015 14:55:07

**Operator Note:**
'5.9 5.6 b Auto Complete'

**Northing:**
367,664.74

**Easting:**
252,371.12

**Tide (feet):**
5.90



## Hole: G9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/22/2015 14:47:38 | 36.09 | 30.19 | 544 | 1.74 | 0.29 | 29.8 |
| 4/22/2015 14:47:38 | 36.42 | 30.52 | 548 | 1.71 | 0.29 | 30.0 |
| 4/22/2015 14:47:39 | 36.75 | 30.85 | 551 | 1.70 | 0.29 | 30.2 |
| 4/22/2015 14:47:40 | 37.07 | 31.17 | 551 | 1.70 | 0.29 | 30.2 |
| 4/22/2015 14:47:40 | 37.40 | 31.50 | 561 | 1.65 | 0.29 | 30.7 |
| 4/22/2015 14:47:41 | 37.73 | 31.83 | 561 | 1.71 | 0.30 | 30.7 |
| 4/22/2015 14:47:41 | 38.06 | 32.16 | 568 | 1.70 | 0.30 | 31.0 |
| 4/22/2015 14:47:42 | 38.39 | 32.49 | 561 | 1.72 | 0.30 | 30.7 |
| 4/22/2015 14:47:43 | 38.71 | 32.81 | 560 | 1.69 | 0.29 | 30.6 |
| 4/22/2015 14:47:43 | 39.04 | 33.14 | 560 | 1.74 | 0.29 | 30.6 |
| 4/22/2015 14:47:44 | 39.37 | 33.47 | 565 | 1.71 | 0.29 | 30.9 |
| 4/22/2015 14:47:45 | 39.70 | 33.80 | 549 | 1.74 | 0.29 | 30.0 |
| 4/22/2015 14:47:45 | 40.03 | 34.13 | 549 | 1.72 | 0.29 | 30.0 |
| 4/22/2015 14:47:46 | 40.35 | 34.45 | 552 | 1.72 | 0.29 | 30.2 |
| 4/22/2015 14:47:46 | 40.68 | 34.78 | 552 | 1.73 | 0.29 | 30.2 |
| 4/22/2015 14:47:47 | 41.01 | 35.11 | 557 | 1.70 | 0.29 | 30.5 |
| 4/22/2015 14:47:48 | 41.34 | 35.44 | 548 | 1.72 | 0.29 | 30.0 |
| 4/22/2015 14:47:49 | 41.67 | 35.77 | 548 | 1.70 | 0.30 | 30.0 |
| 4/22/2015 14:47:49 | 41.99 | 36.09 | 552 | 1.72 | 0.30 | 30.2 |
| 4/22/2015 14:47:50 | 42.32 | 36.42 | 552 | 1.71 | 0.29 | 30.2 |
| 4/22/2015 14:47:51 | 42.65 | 36.75 | 560 | 1.70 | 0.30 | 30.6 |
| 4/22/2015 14:47:51 | 42.98 | 37.08 | 562 | 1.72 | 0.30 | 30.7 |
| 4/22/2015 14:47:52 | 43.31 | 37.41 | 562 | 1.72 | 0.29 | 30.7 |
| 4/22/2015 14:47:52 | 43.64 | 37.74 | 568 | 1.76 | 0.29 | 31.1 |
| 4/22/2015 14:47:53 | 43.96 | 38.06 | 552 | 1.72 | 0.29 | 30.2 |
| 4/22/2015 14:47:54 | 44.29 | 38.39 | 541 | 1.71 | 0.29 | 29.6 |
| 4/22/2015 14:47:54 | 44.62 | 38.72 | 541 | 1.71 | 0.29 | 29.6 |
| 4/22/2015 14:47:55 | 44.95 | 39.05 | 550 | 1.71 | 0.29 | 30.1 |
| 4/22/2015 14:47:55 | 45.28 | 39.38 | 550 | 1.70 | 0.29 | 30.1 |
| 4/22/2015 14:47:56 | 45.60 | 39.70 | 561 | 1.73 | 0.29 | 30.7 |
| 4/22/2015 14:47:57 | 45.93 | 40.03 | 570 | 1.71 | 0.29 | 31.2 |
| 4/22/2015 14:47:57 | 46.26 | 40.36 | 552 | 1.72 | 0.30 | 30.2 |
| 4/22/2015 14:47:58 | 46.59 | 40.69 | 555 | 1.71 | 0.29 | 30.4 |
| 4/22/2015 14:47:59 | 46.92 | 41.02 | 543 | 1.71 | 0.29 | 29.7 |
| 4/22/2015 14:48:00 | 47.24 | 41.34 | 543 | 1.71 | 0.29 | 29.7 |
| 4/22/2015 14:48:00 | 47.57 | 41.67 | 538 | 1.74 | 0.29 | 29.4 |
| 4/22/2015 14:48:01 | 47.90 | 42.00 | 551 | 1.72 | 0.29 | 30.1 |
| 4/22/2015 14:48:02 | 48.23 | 42.33 | 554 | 1.70 | 0.29 | 30.3 |
| 4/22/2015 14:48:02 | 48.56 | 42.66 | 554 | 1.71 | 0.22 | 30.3 |
| 4/22/2015 14:48:03 | 48.88 | 42.98 | 564 | 1.71 | 0.29 | 30.8 |
| 4/22/2015 14:48:03 | 49.21 | 43.31 | 554 | 1.72 | 0.29 | 30.3 |
| 4/22/2015 14:48:04 | 49.54 | 43.64 | 554 | 1.72 | 0.29 | 30.3 |
| 4/22/2015 14:48:05 | 49.87 | 43.97 | 557 | 1.72 | 0.29 | 30.5 |
| 4/22/2015 14:48:05 | 50.20 | 44.30 | 557 | 1.72 | 0.29 | 30.5 |
| 4/22/2015 14:48:06 | 50.53 | 44.63 | 541 | 1.69 | 0.29 | 29.6 |
| 4/22/2015 14:49:28 | 50.85 | 44.95 | 6 | 1.69 | 0.88 | 0.3 |
| 4/22/2015 14:49:29 | 51.18 | 45.28 | 77 | 1.70 | 0.88 | 4.2 |
| 4/22/2015 14:49:30 | 51.51 | 45.61 | 219 | 1.70 | 0.89 | 12.0 |
| 4/22/2015 14:49:31 | 51.84 | 45.94 | 350 | 1.68 | 0.96 | 19.2 |
| 4/22/2015 14:49:32 | 52.17 | 46.27 | 342 | 1.70 | 0.96 | 18.7 |
| 4/22/2015 14:49:34 | 52.49 | 46.59 | 326 | 1.68 | 0.94 | 17.8 |
| 4/22/2015 14:49:35 | 52.82 | 46.92 | 312 | 1.68 | 0.97 | 17.1 |
| 4/22/2015 14:49:36 | 53.15 | 47.25 | 309 | 1.70 | 0.98 | 16.9 |
| 4/22/2015 14:49:40 | 53.48 | 47.58 | 78 | 1.71 | 1.15 | 4.3 |
| 4/22/2015 14:49:41 | 53.81 | 47.91 | 179 | 1.71 | 1.07 | 9.8 |
| 4/22/2015 14:49:43 | 54.13 | 48.23 | 181 | 1.70 | 1.01 | 9.9 |
| 4/22/2015 14:49:52 | 54.46 | 48.56 | 98 | 1.67 | 1.02 | 5.4 |
| 4/22/2015 14:49:55 | 54.79 | 48.89 | 130 | 1.64 | 1.11 | 7.1 |
| 4/22/2015 14:49:58 | 55.12 | 49.22 | 119 | 1.64 | 1.12 | 6.5 |
| 4/22/2015 14:50:02 | 55.45 | 49.55 | 74 | 1.67 | 1.18 | 4.0 |
| 4/22/2015 14:50:06 | 55.77 | 49.87 | 91 | 1.68 | 1.15 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/22/2015 | 14:50:12 | 56.10 | 50.20 | 60 | 1.69 | 1.10 | 3.3 |
| 4/22/2015 | 14:50:18 | 56.43 | 50.53 | 56 | 1.66 | 1.17 | 3.1 |
| 4/22/2015 | 14:50:26 | 56.76 | 50.86 | 54 | 1.68 | 1.17 | 2.9 |
| 4/22/2015 | 14:50:31 | 57.09 | 51.19 | 60 | 1.68 | 1.09 | 3.3 |
| 4/22/2015 | 14:50:38 | 57.41 | 51.51 | 53 | 1.69 | 1.20 | 2.9 |
| 4/22/2015 | 14:50:43 | 57.74 | 51.84 | 63 | 1.69 | 1.18 | 3.4 |
| 4/22/2015 | 14:50:44 | 57.80 | 51.90 | 62 | 1.68 | 1.18 | 3.4 |

## G9 - Summary

**Pattern Number:**
AreaF-G_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/22/2015 14:45:40

**End Date:**
4/22/2015 14:53:24

**Operator Note:**
'5.9 5.7 c Auto Complete'

**Northing:**
367,707.37

**Easting:**
252,432.83

**Tide (feet):**
5.90



## Hole: H1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:41:48 | 36.09 | 30.09 | 698 | 1.08 | 0.61 | 38.2 |
| 4/27/2015 8:41:49 | 36.42 | 30.42 | 705 | 1.09 | 0.60 | 38.6 |
| 4/27/2015 8:41:49 | 36.75 | 30.75 | 690 | 1.08 | 0.61 | 37.7 |
| 4/27/2015 8:41:50 | 37.07 | 31.07 | 697 | 1.09 | 0.61 | 38.1 |
| 4/27/2015 8:41:50 | 37.40 | 31.40 | 693 | 1.09 | 0.60 | 37.9 |
| 4/27/2015 8:41:51 | 37.73 | 31.73 | 683 | 1.08 | 0.61 | 37.4 |
| 4/27/2015 8:41:51 | 38.06 | 32.06 | 683 | 1.09 | 0.60 | 37.4 |
| 4/27/2015 8:41:52 | 38.39 | 32.39 | 675 | 1.09 | 0.61 | 36.9 |
| 4/27/2015 8:41:52 | 38.71 | 32.71 | 675 | 1.09 | 0.61 | 36.9 |
| 4/27/2015 8:41:53 | 39.04 | 33.04 | 701 | 1.08 | 0.60 | 38.4 |
| 4/27/2015 8:41:53 | 39.37 | 33.37 | 696 | 1.09 | 0.61 | 38.1 |
| 4/27/2015 8:41:54 | 39.70 | 33.70 | 684 | 1.09 | 0.61 | 37.4 |
| 4/27/2015 8:41:54 | 40.03 | 34.03 | 684 | 1.09 | 0.60 | 37.4 |
| 4/27/2015 8:41:55 | 40.35 | 34.35 | 694 | 1.10 | 0.60 | 38.0 |
| 4/27/2015 8:41:55 | 40.68 | 34.68 | 684 | 1.09 | 0.61 | 37.4 |
| 4/27/2015 8:41:56 | 41.01 | 35.01 | 671 | 1.14 | 0.60 | 36.7 |
| 4/27/2015 8:41:56 | 41.34 | 35.34 | 671 | 1.09 | 0.61 | 36.7 |
| 4/27/2015 8:41:57 | 41.67 | 35.67 | 678 | 1.09 | 0.60 | 37.1 |
| 4/27/2015 8:41:58 | 41.99 | 35.99 | 669 | 1.09 | 0.60 | 36.6 |
| 4/27/2015 8:41:58 | 42.32 | 36.32 | 669 | 1.09 | 0.60 | 36.6 |
| 4/27/2015 8:41:59 | 42.65 | 36.65 | 666 | 1.08 | 0.60 | 36.4 |
| 4/27/2015 8:41:59 | 42.98 | 36.98 | 680 | 1.09 | 0.60 | 37.2 |
| 4/27/2015 8:42:00 | 43.31 | 37.31 | 680 | 1.09 | 0.60 | 37.2 |
| 4/27/2015 8:42:00 | 43.64 | 37.64 | 689 | 1.09 | 0.60 | 37.7 |
| 4/27/2015 8:42:01 | 43.96 | 37.96 | 687 | 1.08 | 0.60 | 37.6 |
| 4/27/2015 8:42:01 | 44.29 | 38.29 | 693 | 1.08 | 0.60 | 37.9 |
| 4/27/2015 8:42:17 | 44.62 | 38.62 | 57 | 1.09 | 0.61 | 3.1 |
| 4/27/2015 8:42:18 | 44.95 | 38.95 | 166 | 1.11 | 0.62 | 9.1 |
| 4/27/2015 8:42:19 | 45.28 | 39.28 | 271 | 1.09 | 0.61 | 14.8 |
| 4/27/2015 8:42:19 | 45.60 | 39.60 | 388 | 1.09 | 0.62 | 21.2 |
| 4/27/2015 8:42:20 | 45.93 | 39.93 | 388 | 1.09 | 0.61 | 21.2 |
| 4/27/2015 8:42:20 | 46.26 | 40.26 | 505 | 1.09 | 0.61 | 27.6 |
| 4/27/2015 8:42:21 | 46.59 | 40.59 | 576 | 1.09 | 0.61 | 31.5 |
| 4/27/2015 8:42:22 | 46.92 | 40.92 | 583 | 1.09 | 0.60 | 31.9 |
| 4/27/2015 8:42:22 | 47.24 | 41.24 | 603 | 1.09 | 0.61 | 33.0 |
| 4/27/2015 8:42:23 | 47.57 | 41.57 | 603 | 1.09 | 0.60 | 33.0 |
| 4/27/2015 8:42:23 | 47.90 | 41.90 | 617 | 1.09 | 0.60 | 33.7 |
| 4/27/2015 8:42:24 | 48.23 | 42.23 | 634 | 1.10 | 0.61 | 34.6 |
| 4/27/2015 8:42:24 | 48.56 | 42.56 | 611 | 1.11 | 0.62 | 33.4 |
| 4/27/2015 8:42:25 | 48.88 | 42.88 | 590 | 1.10 | 0.66 | 32.2 |
| 4/27/2015 8:42:26 | 49.21 | 43.21 | 462 | 1.11 | 0.68 | 25.3 |
| 4/27/2015 8:42:28 | 49.54 | 43.54 | 338 | 1.11 | 0.69 | 18.5 |
| 4/27/2015 8:42:51 | 49.87 | 43.87 | 0 | 1.19 | 1.07 | 0.0 |
| 4/27/2015 8:42:52 | 50.20 | 44.20 | 46 | 1.21 | 1.21 | 2.5 |
| 4/27/2015 8:42:54 | 50.53 | 44.53 | 183 | 1.23 | 1.37 | 10.0 |
| 4/27/2015 8:42:56 | 50.85 | 44.85 | 146 | 1.23 | 1.28 | 8.0 |
| 4/27/2015 8:42:59 | 51.18 | 45.18 | 123 | 1.24 | 1.39 | 6.7 |
| 4/27/2015 8:43:03 | 51.51 | 45.51 | 89 | 1.21 | 1.39 | 4.9 |
| 4/27/2015 8:43:05 | 51.84 | 45.84 | 116 | 1.15 | 1.35 | 6.4 |
| 4/27/2015 8:43:06 | 52.17 | 46.17 | 225 | 1.17 | 1.24 | 12.3 |
| 4/27/2015 8:43:07 | 52.49 | 46.49 | 282 | 1.15 | 1.14 | 15.4 |
| 4/27/2015 8:43:08 | 52.82 | 46.82 | 345 | 1.16 | 1.09 | 18.9 |
| 4/27/2015 8:43:09 | 53.15 | 47.15 | 410 | 1.16 | 1.23 | 22.4 |
| 4/27/2015 8:43:10 | 53.48 | 47.48 | 405 | 1.17 | 1.12 | 22.1 |
| 4/27/2015 8:43:11 | 53.81 | 47.81 | 416 | 1.17 | 1.09 | 22.8 |
| 4/27/2015 8:43:12 | 54.13 | 48.13 | 423 | 1.20 | 1.09 | 23.1 |
| 4/27/2015 8:43:13 | 54.46 | 48.46 | 367 | 1.15 | 1.21 | 20.1 |
| 4/27/2015 8:43:14 | 54.79 | 48.79 | 347 | 1.15 | 1.12 | 19.0 |
| 4/27/2015 8:43:15 | 55.12 | 49.12 | 347 | 1.20 | 1.32 | 19.0 |
| 4/27/2015 8:43:16 | 55.45 | 49.45 | 295 | 1.17 | 1.39 | 16.1 |
| 4/27/2015 8:43:17 | 55.77 | 49.77 | 263 | 1.18 | 1.29 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:43:19 | 56.10 | 50.10 | 272 | 1.15 | 1.17 | 14.9 |
| 4/27/2015 | 8:43:22 | 56.43 | 50.43 | 57 | 1.19 | 1.11 | 3.1 |
| 4/27/2015 | 8:43:23 | 56.76 | 50.76 | 182 | 0.83 | 1.01 | 10.0 |
| 4/27/2015 | 8:43:28 | 57.09 | 51.09 | 97 | 1.17 | 0.97 | 5.3 |
| 4/27/2015 | 8:43:29 | 57.41 | 51.41 | 234 | 1.16 | 1.03 | 12.8 |
| 4/27/2015 | 8:43:30 | 57.74 | 51.74 | 325 | 1.18 | 1.02 | 17.8 |
| 4/27/2015 | 8:43:32 | 58.07 | 52.07 | 312 | 1.16 | 1.03 | 17.1 |
| 4/27/2015 | 8:43:33 | 58.40 | 52.40 | 257 | 1.18 | 1.09 | 14.1 |
| 4/27/2015 | 8:43:35 | 58.73 | 52.73 | 195 | 1.17 | 1.10 | 10.7 |
| 4/27/2015 | 8:43:37 | 59.06 | 53.06 | 179 | 1.19 | 1.11 | 9.8 |
| 4/27/2015 | 8:43:39 | 59.38 | 53.38 | 168 | 1.16 | 1.05 | 9.2 |
| 4/27/2015 | 8:43:42 | 59.71 | 53.71 | 185 | 1.18 | 1.14 | 10.1 |
| 4/27/2015 | 8:43:44 | 60.04 | 54.04 | 168 | 1.18 | 1.16 | 9.2 |
| 4/27/2015 | 8:43:46 | 60.37 | 54.37 | 139 | 1.21 | 1.23 | 7.6 |
| 4/27/2015 | 8:43:50 | 60.70 | 54.70 | 95 | 1.20 | 1.34 | 5.2 |
| 4/27/2015 | 8:43:56 | 61.02 | 55.02 | 58 | 1.22 | 1.40 | 3.2 |
| 4/27/2015 | 8:44:00 | 61.23 | 55.23 | 52 | 0.56 | 1.37 | 2.8 |

## H1 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:39:40

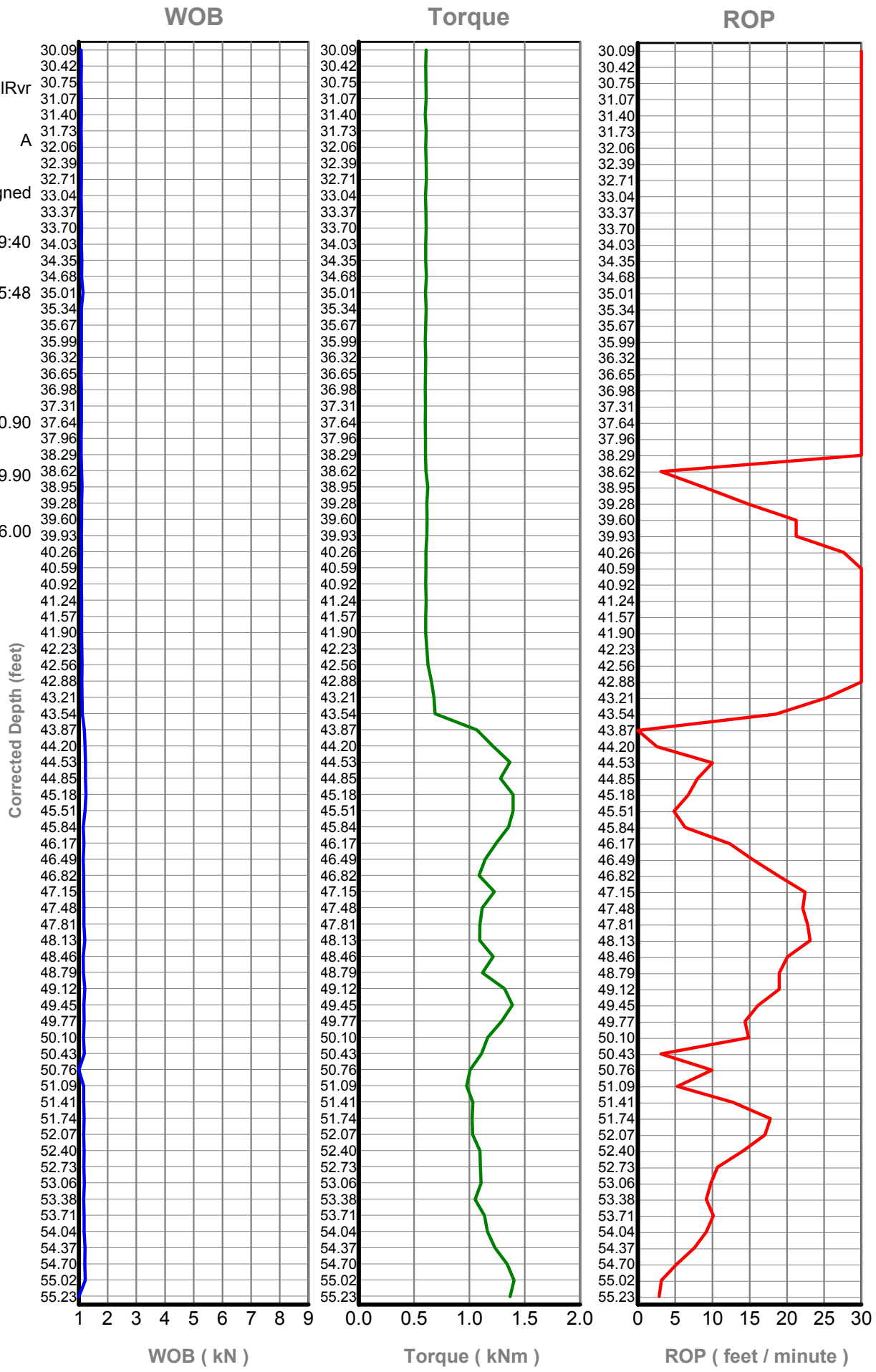
**End Date:**
4/27/2015 8:45:48

**Operator Note:**
'6 6.2 a Auto Complete'

**Northing:**
365,600.90

**Easting:**
248,999.90

**Tide (feet):**
6.00



## Hole: H10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:02:47 | 34.45 | 30.15 | 1,037 | 0.33 | 0.31 | 56.7 |
| 4/26/2015 23:02:48 | 34.78 | 30.48 | 1,037 | 0.33 | 0.31 | 56.7 |
| 4/26/2015 23:02:48 | 35.11 | 30.81 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/26/2015 23:02:48 | 35.43 | 31.13 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/26/2015 23:02:48 | 35.76 | 31.46 | 1,036 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 23:02:49 | 36.09 | 31.79 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 23:02:50 | 36.42 | 32.12 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 23:02:49 | 36.75 | 32.45 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 23:02:50 | 37.07 | 32.77 | 1,045 | 0.33 | 0.31 | 57.2 |
| 4/26/2015 23:02:50 | 37.40 | 33.10 | 1,045 | 0.33 | 0.31 | 57.2 |
| 4/26/2015 23:02:50 | 37.73 | 33.43 | 1,045 | 0.32 | 0.31 | 57.2 |
| 4/26/2015 23:02:51 | 38.06 | 33.76 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/26/2015 23:02:52 | 38.39 | 34.09 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/26/2015 23:02:51 | 38.71 | 34.41 | 1,056 | 0.32 | 0.31 | 57.8 |
| 4/26/2015 23:02:52 | 39.04 | 34.74 | 1,056 | 0.32 | 0.31 | 57.8 |
| 4/26/2015 23:02:53 | 39.37 | 35.07 | 1,056 | 0.32 | 0.31 | 57.8 |
| 4/26/2015 23:02:53 | 39.70 | 35.40 | 1,056 | 0.31 | 0.31 | 57.7 |
| 4/26/2015 23:02:53 | 40.03 | 35.73 | 1,056 | 0.31 | 0.32 | 57.7 |
| 4/26/2015 23:02:54 | 40.35 | 36.05 | 1,056 | 0.31 | 0.32 | 57.7 |
| 4/26/2015 23:02:54 | 40.68 | 36.38 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/26/2015 23:02:54 | 41.01 | 36.71 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 23:02:55 | 41.34 | 37.04 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 23:02:55 | 41.67 | 37.37 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 23:02:55 | 41.99 | 37.69 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/26/2015 23:02:56 | 42.32 | 38.02 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/26/2015 23:02:56 | 42.65 | 38.35 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/26/2015 23:02:56 | 42.98 | 38.68 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/26/2015 23:02:56 | 43.31 | 39.01 | 1,042 | 0.32 | 0.32 | 57.0 |
| 4/26/2015 23:02:57 | 43.64 | 39.34 | 1,044 | 0.32 | 0.26 | 57.1 |
| 4/26/2015 23:02:57 | 43.96 | 39.66 | 1,044 | 0.32 | 0.26 | 57.1 |
| 4/26/2015 23:02:57 | 44.29 | 39.99 | 1,047 | 0.32 | 0.31 | 57.2 |
| 4/26/2015 23:02:58 | 44.62 | 40.32 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/26/2015 23:02:58 | 44.95 | 40.65 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/26/2015 23:02:58 | 45.28 | 40.98 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/26/2015 23:02:59 | 45.60 | 41.30 | 1,050 | 0.30 | 0.35 | 57.4 |
| 4/26/2015 23:03:06 | 45.93 | 41.63 | 0 | 3.86 | 0.37 | 0.0 |
| 4/26/2015 23:03:08 | 46.26 | 41.96 | 140 | 3.93 | 0.38 | 7.6 |
| 4/26/2015 23:03:14 | 46.59 | 42.29 | 50 | 3.13 | 0.37 | 2.7 |
| 4/26/2015 23:03:15 | 46.92 | 42.62 | 236 | 3.69 | 0.37 | 12.9 |
| 4/26/2015 23:03:18 | 47.24 | 42.94 | 100 | 3.83 | 0.36 | 5.5 |
| 4/26/2015 23:03:18 | 47.57 | 43.27 | 132 | 3.51 | 0.37 | 7.2 |
| 4/26/2015 23:03:20 | 47.90 | 43.60 | 310 | 4.22 | 0.37 | 16.9 |
| 4/26/2015 23:03:28 | 48.23 | 43.93 | 62 | 3.70 | 0.37 | 3.4 |
| 4/26/2015 23:03:28 | 48.56 | 44.26 | 141 | 3.55 | 0.38 | 7.7 |
| 4/26/2015 23:03:38 | 48.88 | 44.58 | 54 | 3.38 | 0.37 | 3.0 |
| 4/26/2015 23:03:41 | 49.21 | 44.91 | 73 | 2.71 | 0.33 | 4.0 |
| 4/26/2015 23:03:42 | 49.54 | 45.24 | 138 | 2.80 | 0.37 | 7.5 |
| 4/26/2015 23:03:43 | 49.87 | 45.57 | 138 | 2.38 | 0.37 | 7.5 |
| 4/26/2015 23:03:45 | 50.20 | 45.90 | 308 | 5.71 | 0.37 | 16.8 |
| 4/26/2015 23:03:46 | 50.53 | 46.23 | 321 | 3.28 | 0.36 | 17.6 |
| 4/26/2015 23:03:47 | 50.85 | 46.55 | 299 | 2.78 | 0.37 | 16.4 |
| 4/26/2015 23:03:48 | 51.18 | 46.88 | 296 | 4.27 | 0.38 | 16.2 |
| 4/26/2015 23:03:48 | 51.51 | 47.21 | 296 | 3.50 | 0.36 | 16.2 |
| 4/26/2015 23:03:49 | 51.84 | 47.54 | 340 | 2.52 | 0.35 | 18.6 |
| 4/26/2015 23:04:01 | 52.17 | 47.87 | 98 | 3.45 | 0.37 | 5.4 |
| 4/26/2015 23:04:02 | 52.49 | 48.19 | 247 | 3.26 | 0.37 | 13.5 |
| 4/26/2015 23:04:03 | 52.82 | 48.52 | 322 | 3.78 | 0.38 | 17.6 |
| 4/26/2015 23:04:05 | 53.15 | 48.85 | 327 | 3.41 | 0.38 | 17.9 |
| 4/26/2015 23:04:14 | 53.48 | 49.18 | 22 | 4.11 | 0.40 | 1.2 |
| 4/26/2015 23:04:19 | 53.81 | 49.51 | 81 | 3.85 | 0.40 | 4.4 |
| 4/26/2015 23:04:23 | 54.13 | 49.83 | 72 | 4.28 | 0.39 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 23:04:29 | 54.46 | 50.16 | 71 | 3.88 | 0.39 | 3.9 |
| 4/26/2015 | 23:07:20 | 54.79 | 50.49 | 67 | 3.90 | 0.39 | 3.7 |
| 4/26/2015 | 23:07:26 | 55.12 | 50.82 | 73 | 3.68 | 0.39 | 4.0 |
| 4/26/2015 | 23:07:30 | 55.45 | 51.15 | 84 | 3.63 | 0.39 | 4.6 |
| 4/26/2015 | 23:07:34 | 55.77 | 51.47 | 79 | 3.56 | 0.39 | 4.3 |
| 4/26/2015 | 23:07:39 | 56.10 | 51.80 | 69 | 3.22 | 0.39 | 3.8 |
| 4/26/2015 | 23:07:44 | 56.43 | 52.13 | 76 | 3.38 | 0.39 | 4.1 |
| 4/26/2015 | 23:07:49 | 56.76 | 52.46 | 68 | 3.45 | 0.40 | 3.7 |
| 4/26/2015 | 23:07:54 | 57.09 | 52.79 | 75 | 3.15 | 0.39 | 4.1 |
| 4/26/2015 | 23:07:59 | 57.41 | 53.11 | 90 | 3.41 | 0.40 | 4.9 |
| 4/26/2015 | 23:08:03 | 57.74 | 53.44 | 79 | 3.52 | 0.39 | 4.3 |
| 4/26/2015 | 23:08:08 | 58.07 | 53.77 | 78 | 3.50 | 0.39 | 4.3 |
| 4/26/2015 | 23:08:12 | 58.40 | 54.10 | 74 | 3.65 | 0.39 | 4.1 |
| 4/26/2015 | 23:08:17 | 58.73 | 54.43 | 63 | 3.33 | 0.40 | 3.5 |
| 4/26/2015 | 23:08:23 | 59.06 | 54.76 | 62 | 3.24 | 0.39 | 3.4 |
| 4/26/2015 | 23:08:29 | 59.38 | 55.08 | 66 | 3.46 | 0.41 | 3.6 |
| 4/26/2015 | 23:08:30 | 59.51 | 55.21 | 66 | 3.40 | 0.39 | 3.6 |

## H10 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:01:16

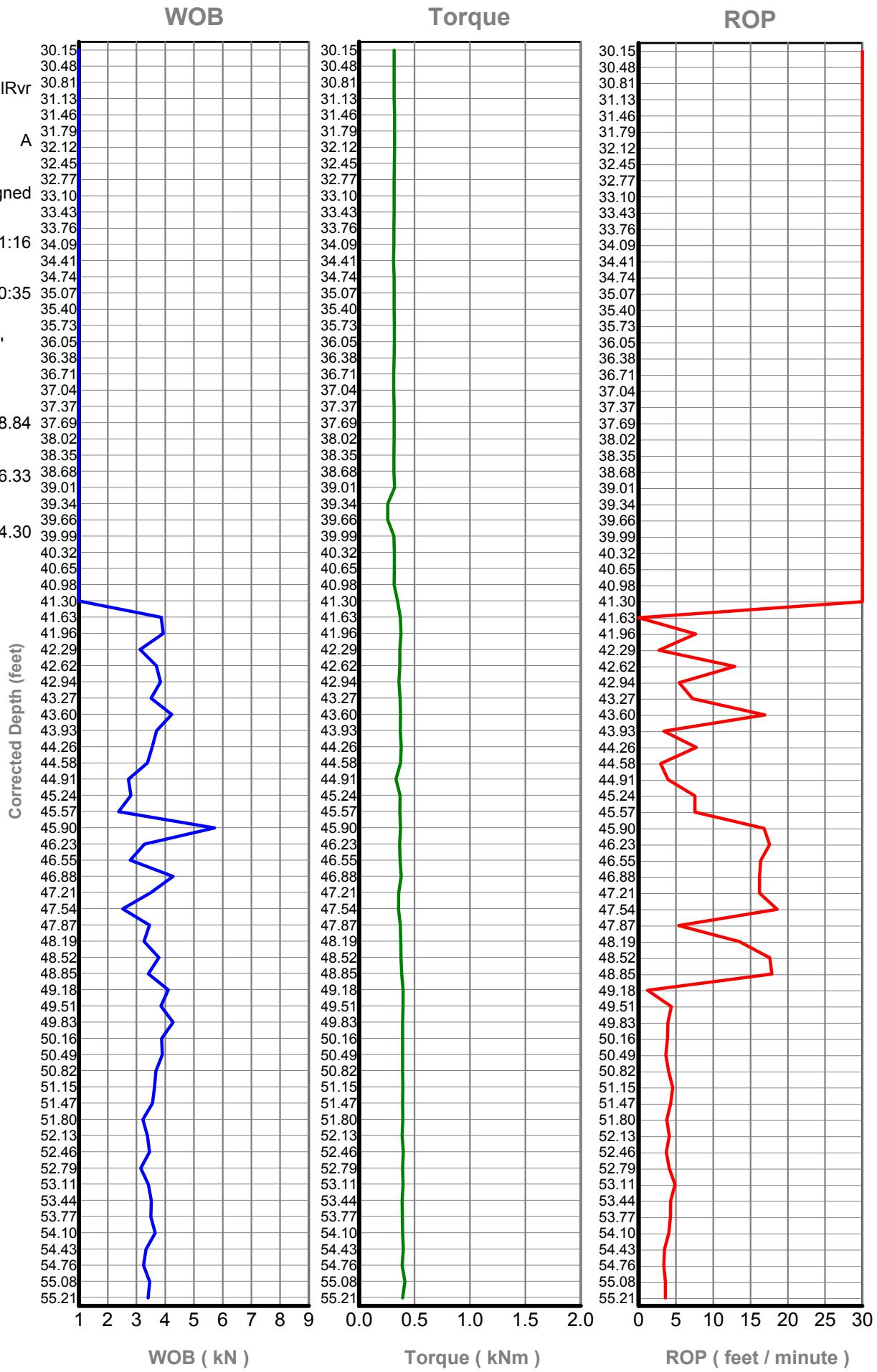
**End Date:**
4/26/2015 23:10:35

**Operator Note:**
'4.3 4.5b Auto Complete'

**Northing:**
366,028.84

**Easting:**
249,526.33

**Tide (feet):**
4.30



## Hole: H100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:21:10 | 32.48 | 30.28 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 12:21:10 | 32.81 | 30.61 | 1,012 | 0.31 | 0.31 | 55.4 |
| 4/26/2015 12:21:11 | 33.14 | 30.94 | 1,012 | 0.31 | 0.31 | 55.4 |
| 4/26/2015 12:21:11 | 33.46 | 31.26 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 12:21:12 | 33.79 | 31.59 | 1,045 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 12:21:12 | 34.12 | 31.92 | 1,045 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 12:21:12 | 34.45 | 32.25 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:21:13 | 34.78 | 32.58 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:21:13 | 35.11 | 32.91 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:21:13 | 35.43 | 33.23 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:21:14 | 35.76 | 33.56 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 12:21:14 | 36.09 | 33.89 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 12:21:14 | 36.42 | 34.22 | 1,027 | 0.31 | 0.32 | 56.2 |
| 4/26/2015 12:21:15 | 36.75 | 34.55 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:21:15 | 37.07 | 34.87 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:21:15 | 37.40 | 35.20 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 12:21:16 | 37.73 | 35.53 | 1,014 | 0.31 | 0.32 | 55.4 |
| 4/26/2015 12:21:16 | 38.06 | 35.86 | 1,014 | 0.31 | 0.32 | 55.4 |
| 4/26/2015 12:21:16 | 38.39 | 36.19 | 1,014 | 0.36 | 0.31 | 55.4 |
| 4/26/2015 12:21:17 | 38.71 | 36.51 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 12:21:17 | 39.04 | 36.84 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 12:21:17 | 39.37 | 37.17 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 12:21:18 | 39.70 | 37.50 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 12:21:19 | 40.03 | 37.83 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 12:21:18 | 40.35 | 38.15 | 999 | 0.37 | 0.32 | 54.6 |
| 4/26/2015 12:21:19 | 40.68 | 38.48 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/26/2015 12:21:19 | 41.01 | 38.81 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/26/2015 12:21:19 | 41.34 | 39.14 | 1,016 | 0.37 | 0.33 | 55.5 |
| 4/26/2015 12:21:20 | 41.67 | 39.47 | 1,013 | 0.50 | 0.33 | 55.4 |
| 4/26/2015 12:21:20 | 41.99 | 39.79 | 998 | 0.33 | 0.32 | 54.6 |
| 4/26/2015 12:21:21 | 42.32 | 40.12 | 998 | 0.33 | 0.32 | 54.6 |
| 4/26/2015 12:21:21 | 42.65 | 40.45 | 998 | 0.37 | 0.32 | 54.6 |
| 4/26/2015 12:21:22 | 42.98 | 40.78 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/26/2015 12:21:22 | 43.31 | 41.11 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/26/2015 12:21:22 | 43.64 | 41.44 | 1,016 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 12:21:23 | 43.96 | 41.76 | 1,016 | 0.35 | 0.31 | 55.5 |
| 4/26/2015 12:21:23 | 44.29 | 42.09 | 1,016 | 0.35 | 0.31 | 55.5 |
| 4/26/2015 12:21:23 | 44.62 | 42.42 | 1,020 | 0.35 | 0.32 | 55.8 |
| 4/26/2015 12:21:24 | 44.95 | 42.75 | 978 | 0.32 | 0.31 | 53.5 |
| 4/26/2015 12:21:24 | 45.28 | 43.08 | 978 | 0.32 | 0.31 | 53.5 |
| 4/26/2015 12:21:24 | 45.60 | 43.40 | 978 | 0.31 | 0.31 | 53.5 |
| 4/26/2015 12:21:25 | 45.93 | 43.73 | 1,001 | 0.31 | 0.31 | 54.8 |
| 4/26/2015 12:21:25 | 46.26 | 44.06 | 1,001 | 0.31 | 0.31 | 54.8 |
| 4/26/2015 12:21:29 | 46.59 | 44.39 | 44 | 4.58 | 0.38 | 2.4 |
| 4/26/2015 12:21:36 | 46.92 | 44.72 | 23 | 3.93 | 0.39 | 1.3 |
| 4/26/2015 12:21:39 | 47.24 | 45.04 | 99 | 3.26 | 0.40 | 5.4 |
| 4/26/2015 12:21:50 | 47.57 | 45.37 | 31 | 3.11 | 0.40 | 1.7 |
| 4/26/2015 12:22:01 | 47.90 | 45.70 | 40 | 2.95 | 0.40 | 2.2 |
| 4/26/2015 12:22:09 | 48.18 | 45.98 | 41 | 3.36 | 0.40 | 2.2 |

## H100 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:19:05

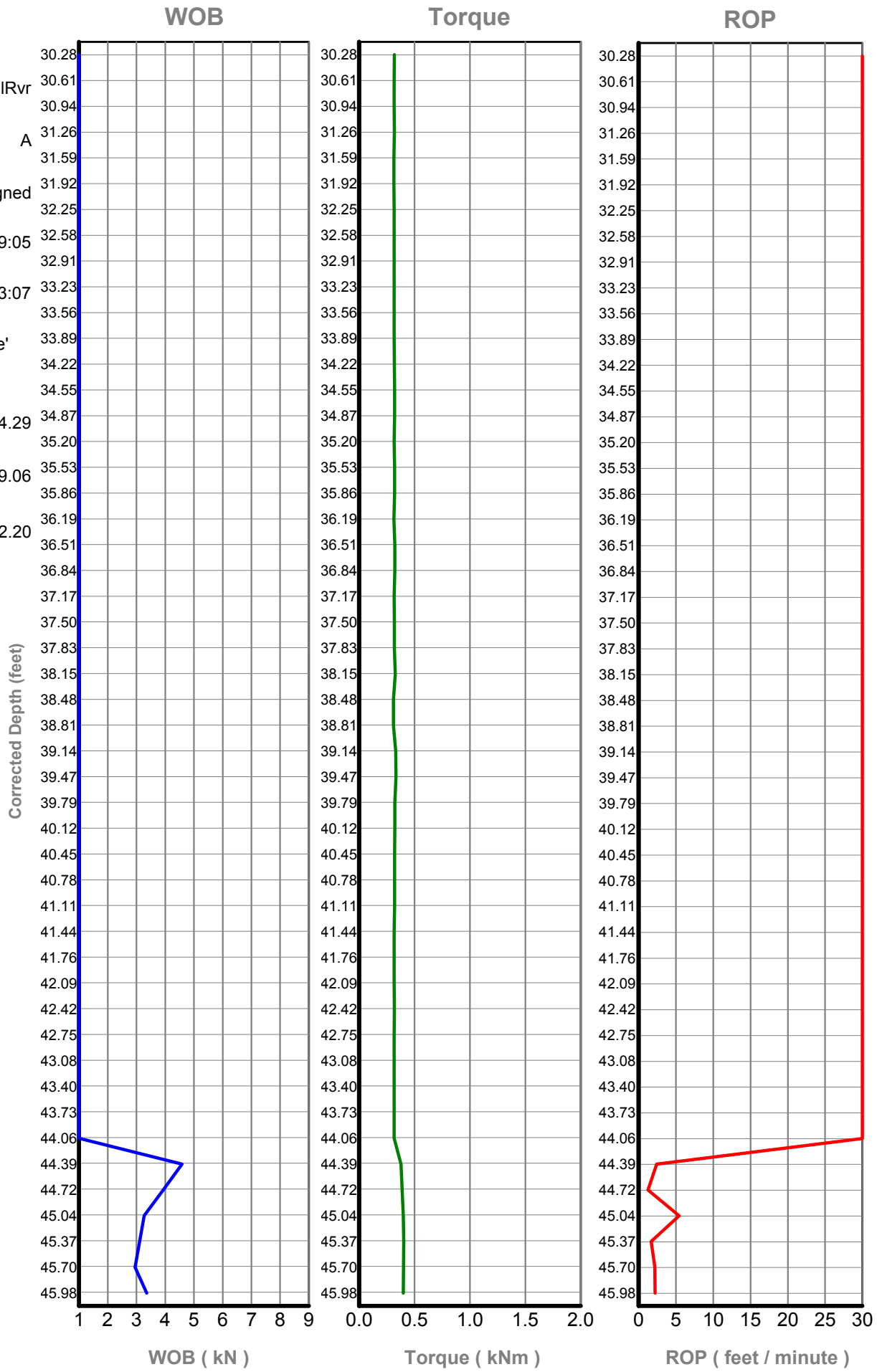
**End Date:**
4/26/2015 12:23:07

**Operator Note:**
'2.2 2.3 b Auto Complete'

**Northing:**
366,194.29

**Easting:**
249,979.06

**Tide (feet):**
2.20



## Hole: H1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:56:54 | 33.14 | 30.04 | 521 | 1.77 | 0.29 | 28.5 |
| 4/25/2015 15:56:55 | 33.46 | 30.36 | 515 | 1.79 | 0.29 | 28.2 |
| 4/25/2015 15:56:56 | 33.79 | 30.69 | 512 | 1.78 | 0.29 | 28.0 |
| 4/25/2015 15:56:56 | 34.12 | 31.02 | 507 | 1.79 | 0.29 | 27.7 |
| 4/25/2015 15:56:57 | 34.45 | 31.35 | 505 | 1.79 | 0.29 | 27.6 |
| 4/25/2015 15:56:58 | 34.78 | 31.68 | 499 | 1.78 | 0.29 | 27.3 |
| 4/25/2015 15:56:59 | 35.11 | 32.01 | 499 | 1.78 | 0.29 | 27.3 |
| 4/25/2015 15:56:59 | 35.43 | 32.33 | 498 | 1.78 | 0.29 | 27.2 |
| 4/25/2015 15:57:00 | 35.76 | 32.66 | 498 | 1.77 | 0.29 | 27.2 |
| 4/25/2015 15:57:00 | 36.09 | 32.99 | 501 | 1.78 | 0.29 | 27.4 |
| 4/25/2015 15:57:01 | 36.42 | 33.32 | 504 | 1.77 | 0.29 | 27.6 |
| 4/25/2015 15:57:02 | 36.75 | 33.65 | 510 | 1.76 | 0.29 | 27.9 |
| 4/25/2015 15:57:02 | 37.07 | 33.97 | 497 | 1.76 | 0.29 | 27.2 |
| 4/25/2015 15:57:04 | 37.40 | 34.30 | 512 | 1.78 | 0.29 | 28.0 |
| 4/25/2015 15:57:04 | 37.73 | 34.63 | 509 | 1.77 | 0.29 | 27.8 |
| 4/25/2015 15:57:05 | 38.06 | 34.96 | 501 | 1.80 | 0.29 | 27.4 |
| 4/25/2015 15:57:06 | 38.39 | 35.29 | 507 | 1.77 | 0.29 | 27.7 |
| 4/25/2015 15:57:06 | 38.71 | 35.61 | 503 | 1.79 | 0.29 | 27.5 |
| 4/25/2015 15:57:07 | 39.04 | 35.94 | 494 | 1.79 | 0.29 | 27.0 |
| 4/25/2015 15:57:08 | 39.37 | 36.27 | 494 | 1.79 | 0.29 | 27.0 |
| 4/25/2015 15:57:08 | 39.70 | 36.60 | 496 | 1.79 | 0.29 | 27.1 |
| 4/25/2015 15:57:09 | 40.03 | 36.93 | 508 | 1.76 | 0.29 | 27.8 |
| 4/25/2015 15:57:10 | 40.35 | 37.25 | 497 | 1.76 | 0.29 | 27.2 |
| 4/25/2015 15:57:10 | 40.68 | 37.58 | 497 | 1.77 | 0.29 | 27.2 |
| 4/25/2015 15:57:11 | 41.01 | 37.91 | 500 | 1.79 | 0.29 | 27.3 |
| 4/25/2015 15:57:12 | 41.34 | 38.24 | 508 | 1.79 | 0.29 | 27.8 |
| 4/25/2015 15:57:13 | 41.67 | 38.57 | 509 | 1.79 | 0.29 | 27.8 |
| 4/25/2015 15:57:14 | 41.99 | 38.89 | 496 | 1.76 | 0.30 | 27.1 |
| 4/25/2015 15:57:14 | 42.32 | 39.22 | 508 | 1.76 | 0.29 | 27.8 |
| 4/25/2015 15:57:15 | 42.65 | 39.55 | 508 | 1.78 | 0.30 | 27.8 |
| 4/25/2015 15:57:16 | 42.98 | 39.88 | 511 | 1.78 | 0.29 | 27.9 |
| 4/25/2015 15:57:16 | 43.31 | 40.21 | 509 | 1.77 | 0.29 | 27.8 |
| 4/25/2015 15:57:17 | 43.64 | 40.54 | 515 | 1.77 | 0.30 | 28.2 |
| 4/25/2015 15:57:18 | 43.96 | 40.86 | 504 | 1.77 | 0.30 | 27.5 |
| 4/25/2015 15:57:18 | 44.29 | 41.19 | 504 | 1.76 | 0.30 | 27.5 |
| 4/25/2015 15:57:19 | 44.62 | 41.52 | 505 | 1.79 | 0.29 | 27.6 |
| 4/25/2015 15:57:20 | 44.95 | 41.85 | 499 | 1.79 | 0.30 | 27.3 |
| 4/25/2015 15:57:20 | 45.28 | 42.18 | 499 | 1.79 | 0.30 | 27.3 |
| 4/25/2015 15:57:21 | 45.60 | 42.50 | 495 | 1.76 | 0.30 | 27.1 |
| 4/25/2015 15:57:22 | 45.93 | 42.83 | 495 | 1.76 | 0.30 | 27.1 |
| 4/25/2015 15:57:22 | 46.26 | 43.16 | 500 | 1.81 | 0.30 | 27.4 |
| 4/25/2015 15:57:23 | 46.59 | 43.49 | 503 | 1.78 | 0.30 | 27.5 |
| 4/25/2015 15:57:24 | 46.92 | 43.82 | 500 | 1.79 | 0.30 | 27.4 |
| 4/25/2015 15:57:25 | 47.24 | 44.14 | 508 | 1.79 | 0.30 | 27.8 |
| 4/25/2015 15:57:26 | 47.57 | 44.47 | 503 | 1.77 | 0.30 | 27.5 |
| 4/25/2015 15:57:26 | 47.90 | 44.80 | 498 | 1.79 | 0.30 | 27.2 |
| 4/25/2015 15:57:27 | 48.23 | 45.13 | 507 | 1.79 | 0.30 | 27.7 |
| 4/25/2015 15:57:28 | 48.56 | 45.46 | 503 | 1.79 | 0.30 | 27.5 |
| 4/25/2015 15:57:28 | 48.88 | 45.78 | 503 | 1.77 | 0.30 | 27.5 |
| 4/25/2015 15:57:29 | 49.21 | 46.11 | 489 | 1.77 | 0.30 | 26.7 |
| 4/25/2015 15:57:48 | 49.54 | 46.44 | 3 | 1.70 | 1.51 | 0.2 |
| 4/25/2015 15:57:53 | 49.87 | 46.77 | 90 | 1.77 | 1.13 | 4.9 |
| 4/25/2015 15:57:54 | 50.20 | 47.10 | 236 | 1.75 | 1.19 | 12.9 |
| 4/25/2015 15:58:05 | 50.53 | 47.43 | 23 | 1.81 | 1.24 | 1.2 |
| 4/25/2015 15:58:07 | 50.85 | 47.75 | 180 | 1.83 | 1.06 | 9.8 |
| 4/25/2015 15:58:08 | 51.18 | 48.08 | 279 | 1.78 | 1.16 | 15.2 |
| 4/25/2015 15:58:10 | 51.51 | 48.41 | 220 | 1.78 | 1.27 | 12.0 |
| 4/25/2015 15:58:29 | 51.84 | 48.74 | 78 | 1.78 | 1.16 | 4.3 |
| 4/25/2015 15:59:09 | 52.17 | 49.07 | 55 | 1.78 | 1.15 | 3.0 |
| 4/25/2015 16:01:22 | 52.49 | 49.39 | 84 | 1.79 | 1.14 | 4.6 |
| 4/25/2015 16:01:26 | 52.82 | 49.72 | 81 | 1.79 | 1.18 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 16:01:31 | 53.15 | 50.05 | 84 | 1.77 | 1.10 | 4.6 |
| 4/25/2015 | 16:01:36 | 53.48 | 50.38 | 81 | 1.78 | 1.14 | 4.4 |
| 4/25/2015 | 16:01:40 | 53.81 | 50.71 | 81 | 1.79 | 1.11 | 4.4 |
| 4/25/2015 | 16:01:44 | 54.13 | 51.03 | 76 | 1.78 | 1.12 | 4.2 |
| 4/25/2015 | 16:01:49 | 54.46 | 51.36 | 79 | 1.80 | 1.15 | 4.3 |
| 4/25/2015 | 16:01:52 | 54.70 | 51.60 | 74 | 1.79 | 1.15 | 4.1 |

## H1000 - Summary

**Pattern Number:**
AreaH_Lane3A-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:54:47

**End Date:**
4/25/2015 16:07:22

**Operator Note:**
'3.1 2.9C Auto Complete'

**Northing:**
366,747.27

**Easting:**
251,738.54

**Tide (feet):**
3.10



## Hole: H1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:58:39 | 33.14 | 30.04 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:39 | 33.46 | 30.36 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:39 | 33.79 | 30.69 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 15:58:40 | 34.12 | 31.02 | 1,031 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 15:58:40 | 34.45 | 31.35 | 1,031 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 15:58:40 | 34.78 | 31.68 | 1,063 | 0.32 | 0.31 | 58.1 |
| 4/25/2015 15:58:41 | 35.11 | 32.01 | 1,062 | 0.35 | 0.32 | 58.1 |
| 4/25/2015 15:58:41 | 35.43 | 32.33 | 1,062 | 0.35 | 0.32 | 58.1 |
| 4/25/2015 15:58:41 | 35.76 | 32.66 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 15:58:42 | 36.09 | 32.99 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 15:58:43 | 36.42 | 33.32 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 15:58:43 | 36.75 | 33.65 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 15:58:43 | 37.07 | 33.97 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 15:58:44 | 37.40 | 34.30 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 15:58:44 | 37.73 | 34.63 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 15:58:44 | 38.06 | 34.96 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 15:58:45 | 38.39 | 35.29 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 15:58:45 | 38.71 | 35.61 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 15:58:45 | 39.04 | 35.94 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 15:58:45 | 39.37 | 36.27 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/25/2015 15:58:46 | 39.70 | 36.60 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 15:58:46 | 40.03 | 36.93 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 15:58:46 | 40.35 | 37.25 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 15:58:47 | 40.68 | 37.58 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 15:58:47 | 41.01 | 37.91 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 15:58:47 | 41.34 | 38.24 | 1,067 | 0.31 | 0.31 | 58.4 |
| 4/25/2015 15:58:48 | 41.67 | 38.57 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/25/2015 15:58:48 | 41.99 | 38.89 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/25/2015 15:58:48 | 42.32 | 39.22 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/25/2015 15:58:49 | 42.65 | 39.55 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 15:58:49 | 42.98 | 39.88 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 15:58:49 | 43.31 | 40.21 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 15:58:50 | 43.64 | 40.54 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/25/2015 15:58:50 | 43.96 | 40.86 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/25/2015 15:58:50 | 44.29 | 41.19 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 15:58:51 | 44.62 | 41.52 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 15:58:51 | 44.95 | 41.85 | 1,044 | 0.31 | 0.33 | 57.1 |
| 4/25/2015 15:58:51 | 45.28 | 42.18 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:52 | 45.60 | 42.50 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:52 | 45.93 | 42.83 | 1,070 | 0.32 | 0.32 | 58.5 |
| 4/25/2015 15:58:53 | 46.26 | 43.16 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 15:58:53 | 46.59 | 43.49 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 15:58:53 | 46.92 | 43.82 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 15:58:54 | 47.24 | 44.14 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:54 | 47.57 | 44.47 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 15:58:54 | 47.90 | 44.80 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 15:58:55 | 48.23 | 45.13 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 15:58:55 | 48.56 | 45.46 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 15:59:17 | 48.88 | 45.78 | 3 | 3.01 | 0.39 | 0.2 |
| 4/25/2015 15:59:24 | 49.21 | 46.11 | 62 | 2.74 | 0.39 | 3.4 |
| 4/25/2015 15:59:27 | 49.54 | 46.44 | 109 | 3.22 | 0.39 | 6.0 |
| 4/25/2015 15:59:31 | 49.87 | 46.77 | 80 | 3.47 | 0.40 | 4.3 |
| 4/25/2015 15:59:35 | 50.20 | 47.10 | 101 | 3.68 | 0.40 | 5.5 |
| 4/25/2015 15:59:41 | 50.53 | 47.43 | 63 | 3.10 | 0.39 | 3.4 |
| 4/25/2015 15:59:45 | 50.85 | 47.75 | 91 | 3.18 | 0.40 | 5.0 |
| 4/25/2015 15:59:50 | 51.18 | 48.08 | 69 | 3.29 | 0.39 | 3.8 |
| 4/25/2015 15:59:56 | 51.51 | 48.41 | 75 | 3.52 | 0.37 | 4.1 |
| 4/25/2015 16:00:01 | 51.84 | 48.74 | 59 | 3.32 | 0.40 | 3.2 |
| 4/25/2015 16:00:07 | 52.17 | 49.07 | 67 | 3.48 | 0.40 | 3.7 |
| 4/25/2015 16:00:11 | 52.49 | 49.39 | 76 | 3.31 | 0.40 | 4.2 |
| 4/25/2015 16:00:14 | 52.78 | 49.68 | 85 | 3.48 | 0.39 | 4.6 |

## H1001 - Summary

**Pattern Number:**
AreaH_Lane3A-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:56:25

**End Date:**
4/25/2015 16:01:33

**Operator Note:**
'3.1 3.1 b Auto Complete'

**Northing:**
366,699.98

**Easting:**
251,680.33

**Tide (feet):**
3.10



## Hole: H1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:53:32 | 33.14 | 30.04 | 1,059 | 0.29 | 0.32 | 57.9 |
| 4/25/2015 15:53:33 | 33.46 | 30.36 | 1,059 | 0.29 | 0.32 | 57.9 |
| 4/25/2015 15:53:33 | 33.79 | 30.69 | 1,047 | 0.30 | 0.32 | 57.2 |
| 4/25/2015 15:53:33 | 34.12 | 31.02 | 1,025 | 0.30 | 0.32 | 56.1 |
| 4/25/2015 15:53:34 | 34.45 | 31.35 | 1,025 | 0.30 | 0.32 | 56.1 |
| 4/25/2015 15:53:34 | 34.78 | 31.68 | 1,025 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:53:34 | 35.11 | 32.01 | 1,038 | 0.30 | 0.32 | 56.8 |
| 4/25/2015 15:53:35 | 35.43 | 32.33 | 1,038 | 0.30 | 0.32 | 56.8 |
| 4/25/2015 15:53:35 | 35.76 | 32.66 | 1,047 | 0.29 | 0.32 | 57.3 |
| 4/25/2015 15:53:35 | 36.09 | 32.99 | 1,047 | 0.29 | 0.32 | 57.3 |
| 4/25/2015 15:53:35 | 36.42 | 33.32 | 1,038 | 0.30 | 0.32 | 56.7 |
| 4/25/2015 15:53:36 | 36.75 | 33.65 | 1,035 | 0.29 | 0.32 | 56.6 |
| 4/25/2015 15:53:36 | 37.07 | 33.97 | 1,035 | 0.29 | 0.32 | 56.6 |
| 4/25/2015 15:53:36 | 37.40 | 34.30 | 1,060 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 15:53:37 | 37.73 | 34.63 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/25/2015 15:53:37 | 38.06 | 34.96 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/25/2015 15:53:37 | 38.39 | 35.29 | 1,041 | 0.30 | 0.32 | 56.9 |
| 4/25/2015 15:53:38 | 38.71 | 35.61 | 1,038 | 0.30 | 0.32 | 56.7 |
| 4/25/2015 15:53:38 | 39.04 | 35.94 | 1,038 | 0.30 | 0.32 | 56.7 |
| 4/25/2015 15:53:38 | 39.37 | 36.27 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 15:53:39 | 39.70 | 36.60 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/25/2015 15:53:39 | 40.03 | 36.93 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/25/2015 15:53:39 | 40.35 | 37.25 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/25/2015 15:53:40 | 40.68 | 37.58 | 1,040 | 0.25 | 0.32 | 56.9 |
| 4/25/2015 15:53:41 | 41.01 | 37.91 | 1,040 | 0.25 | 0.32 | 56.9 |
| 4/25/2015 15:53:41 | 41.34 | 38.24 | 1,052 | 0.29 | 0.32 | 57.5 |
| 4/25/2015 15:53:41 | 41.67 | 38.57 | 1,049 | 0.29 | 0.32 | 57.4 |
| 4/25/2015 15:53:42 | 41.99 | 38.89 | 1,049 | 0.29 | 0.32 | 57.4 |
| 4/25/2015 15:53:42 | 42.32 | 39.22 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/25/2015 15:53:42 | 42.65 | 39.55 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/25/2015 15:53:43 | 42.98 | 39.88 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/25/2015 15:53:43 | 43.31 | 40.21 | 1,052 | 0.29 | 0.32 | 57.5 |
| 4/25/2015 15:53:43 | 43.64 | 40.54 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 15:53:44 | 43.96 | 40.86 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 15:53:44 | 44.29 | 41.19 | 1,049 | 0.29 | 0.32 | 57.4 |
| 4/25/2015 15:53:44 | 44.62 | 41.52 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/25/2015 15:53:45 | 44.95 | 41.85 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/25/2015 15:53:45 | 45.28 | 42.18 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/25/2015 15:53:45 | 45.60 | 42.50 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/25/2015 15:53:45 | 45.93 | 42.83 | 1,047 | 0.35 | 0.32 | 57.2 |
| 4/25/2015 15:53:46 | 46.26 | 43.16 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 15:53:46 | 46.59 | 43.49 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 15:53:46 | 46.92 | 43.82 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 15:53:47 | 47.24 | 44.14 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/25/2015 15:53:47 | 47.57 | 44.47 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/25/2015 15:53:47 | 47.90 | 44.80 | 1,035 | 0.30 | 0.32 | 56.6 |
| 4/25/2015 15:53:48 | 48.23 | 45.13 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/25/2015 15:53:48 | 48.56 | 45.46 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/25/2015 15:53:56 | 48.88 | 45.78 | 0 | 4.09 | 0.36 | 0.0 |
| 4/25/2015 15:54:03 | 49.21 | 46.11 | 80 | 4.36 | 0.39 | 4.4 |
| 4/25/2015 15:54:05 | 49.54 | 46.44 | 123 | 4.07 | 0.38 | 6.7 |
| 4/25/2015 15:54:06 | 49.87 | 46.77 | 212 | 4.05 | 0.38 | 11.6 |
| 4/25/2015 15:54:10 | 50.20 | 47.10 | 24 | 4.65 | 0.38 | 1.3 |
| 4/25/2015 15:54:18 | 50.53 | 47.43 | 39 | 3.31 | 0.37 | 2.1 |
| 4/25/2015 15:54:19 | 50.85 | 47.75 | 124 | 3.05 | 0.37 | 6.8 |
| 4/25/2015 15:54:20 | 51.18 | 48.08 | 182 | 3.35 | 0.37 | 10.0 |
| 4/25/2015 15:54:20 | 51.51 | 48.41 | 265 | 3.34 | 0.37 | 14.5 |
| 4/25/2015 15:54:31 | 51.84 | 48.74 | 23 | 5.44 | 0.40 | 1.3 |
| 4/25/2015 15:54:33 | 52.17 | 49.07 | 138 | 3.75 | 0.38 | 7.6 |
| 4/25/2015 15:54:35 | 52.49 | 49.39 | 233 | 3.63 | 0.38 | 12.7 |
| 4/25/2015 15:54:37 | 52.82 | 49.72 | 167 | 4.53 | 0.39 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 15:54:40 | 53.15 | 50.05 | 131 | 3.35 | 0.40 | 7.2 |
| 4/25/2015 | 15:54:45 | 53.48 | 50.38 | 66 | 3.90 | 0.40 | 3.6 |
| 4/25/2015 | 15:54:51 | 53.81 | 50.71 | 45 | 3.52 | 0.40 | 2.4 |
| 4/25/2015 | 15:54:58 | 54.13 | 51.03 | 52 | 3.16 | 0.39 | 2.8 |
| 4/25/2015 | 15:55:06 | 54.46 | 51.36 | 47 | 3.28 | 0.40 | 2.5 |
| 4/25/2015 | 15:55:09 | 54.58 | 51.48 | 38 | 3.04 | 0.40 | 2.1 |

## H1002 - Summary

**Pattern Number:**
AreaH_Lane3A-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:51:18

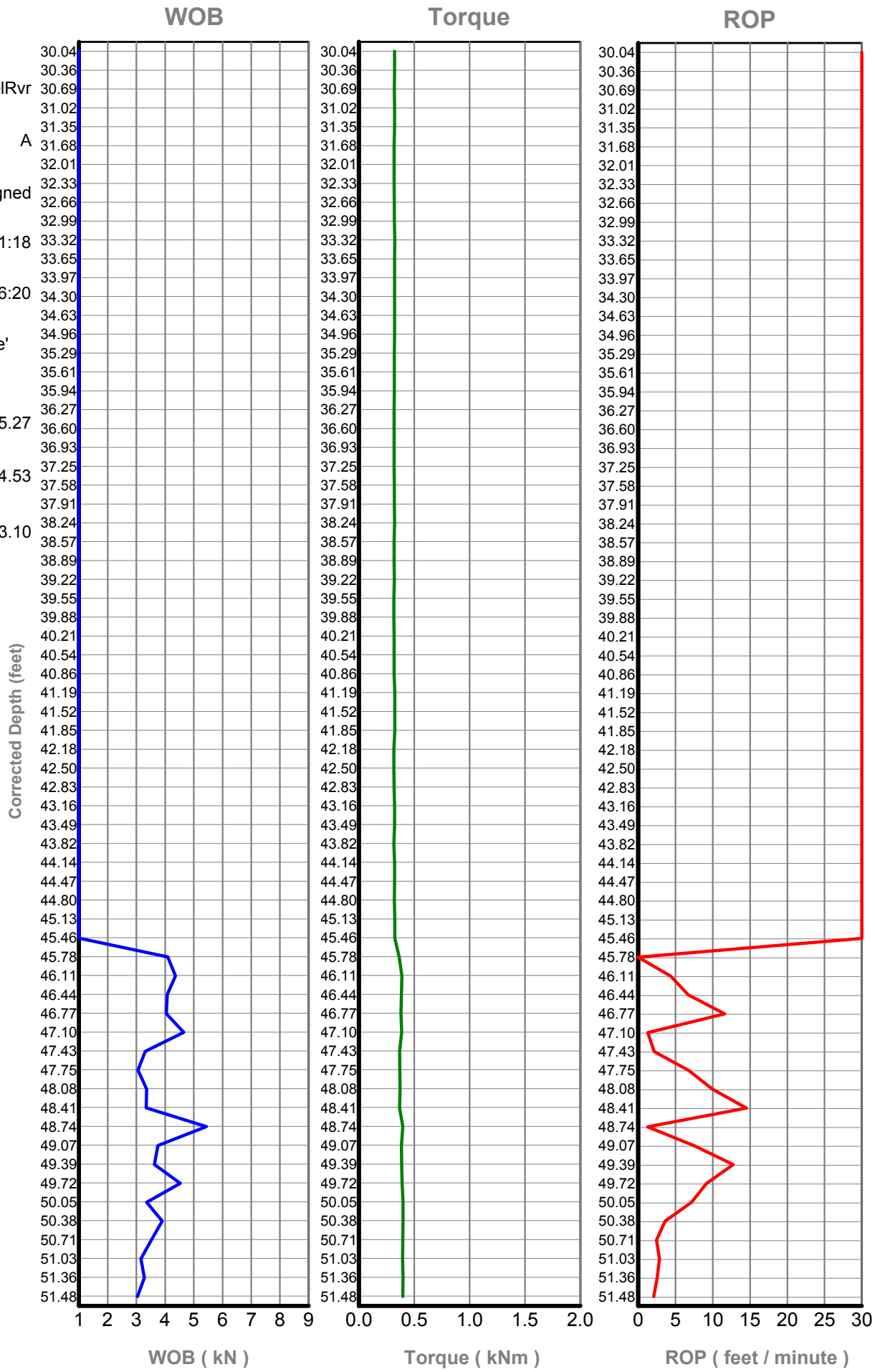
**End Date:**
4/25/2015 15:56:20

**Operator Note:**
'3.1 2.9 b Auto Complete'

**Northing:**
366,655.27

**Easting:**
251,634.53

**Tide (feet):**
3.10



## Hole: H1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 16:35:59 | 34.12 | 30.32 | 523 | 1.79 | 0.28 | 28.6 |
| 4/25/2015 16:36:00 | 34.45 | 30.65 | 526 | 1.76 | 0.29 | 28.8 |
| 4/25/2015 16:36:01 | 34.78 | 30.98 | 523 | 1.77 | 0.29 | 28.6 |
| 4/25/2015 16:36:01 | 35.11 | 31.31 | 520 | 1.76 | 0.29 | 28.4 |
| 4/25/2015 16:36:02 | 35.43 | 31.63 | 526 | 1.77 | 0.28 | 28.8 |
| 4/25/2015 16:36:03 | 35.76 | 31.96 | 523 | 1.79 | 0.28 | 28.6 |
| 4/25/2015 16:36:03 | 36.09 | 32.29 | 523 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:04 | 36.42 | 32.62 | 529 | 1.82 | 0.28 | 28.9 |
| 4/25/2015 16:36:05 | 36.75 | 32.95 | 526 | 1.78 | 0.28 | 28.8 |
| 4/25/2015 16:36:06 | 37.07 | 33.27 | 523 | 1.79 | 0.28 | 28.6 |
| 4/25/2015 16:36:06 | 37.40 | 33.60 | 526 | 1.77 | 0.28 | 28.8 |
| 4/25/2015 16:36:07 | 37.73 | 33.93 | 523 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:08 | 38.06 | 34.26 | 523 | 1.79 | 0.28 | 28.6 |
| 4/25/2015 16:36:08 | 38.39 | 34.59 | 526 | 1.76 | 0.28 | 28.8 |
| 4/25/2015 16:36:09 | 38.71 | 34.91 | 526 | 1.79 | 0.22 | 28.8 |
| 4/25/2015 16:36:10 | 39.04 | 35.24 | 518 | 1.76 | 0.28 | 28.3 |
| 4/25/2015 16:36:10 | 39.37 | 35.57 | 520 | 1.77 | 0.28 | 28.4 |
| 4/25/2015 16:36:11 | 39.70 | 35.90 | 522 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:12 | 40.03 | 36.23 | 520 | 1.76 | 0.28 | 28.4 |
| 4/25/2015 16:36:12 | 40.35 | 36.55 | 534 | 1.77 | 0.28 | 29.2 |
| 4/25/2015 16:36:13 | 40.68 | 36.88 | 526 | 1.77 | 0.28 | 28.8 |
| 4/25/2015 16:36:14 | 41.01 | 37.21 | 523 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:14 | 41.34 | 37.54 | 526 | 1.76 | 0.28 | 28.8 |
| 4/25/2015 16:36:15 | 41.67 | 37.87 | 523 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:16 | 41.99 | 38.19 | 523 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:17 | 42.32 | 38.52 | 524 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:17 | 42.65 | 38.85 | 521 | 1.78 | 0.28 | 28.5 |
| 4/25/2015 16:36:18 | 42.98 | 39.18 | 521 | 1.77 | 0.28 | 28.5 |
| 4/25/2015 16:36:19 | 43.31 | 39.51 | 523 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:19 | 43.64 | 39.84 | 523 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:20 | 43.96 | 40.16 | 521 | 1.79 | 0.29 | 28.5 |
| 4/25/2015 16:36:21 | 44.29 | 40.49 | 521 | 1.79 | 0.28 | 28.5 |
| 4/25/2015 16:36:21 | 44.62 | 40.82 | 521 | 1.79 | 0.28 | 28.5 |
| 4/25/2015 16:36:22 | 44.95 | 41.15 | 518 | 1.77 | 0.28 | 28.3 |
| 4/25/2015 16:36:23 | 45.28 | 41.48 | 526 | 1.79 | 0.28 | 28.8 |
| 4/25/2015 16:36:23 | 45.60 | 41.80 | 523 | 1.78 | 0.28 | 28.6 |
| 4/25/2015 16:36:24 | 45.93 | 42.13 | 523 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:25 | 46.26 | 42.46 | 521 | 1.78 | 0.28 | 28.5 |
| 4/25/2015 16:36:25 | 46.59 | 42.79 | 524 | 1.76 | 0.28 | 28.6 |
| 4/25/2015 16:36:26 | 46.92 | 43.12 | 524 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:27 | 47.24 | 43.44 | 524 | 1.77 | 0.28 | 28.6 |
| 4/25/2015 16:36:28 | 47.57 | 43.77 | 521 | 1.78 | 0.28 | 28.5 |
| 4/25/2015 16:36:28 | 47.90 | 44.10 | 518 | 1.77 | 0.28 | 28.3 |
| 4/25/2015 16:36:29 | 48.23 | 44.43 | 514 | 1.78 | 0.28 | 28.1 |
| 4/25/2015 16:36:30 | 48.56 | 44.76 | 521 | 1.77 | 0.28 | 28.5 |
| 4/25/2015 16:36:59 | 48.88 | 45.08 | 0 | 1.79 | 0.94 | 0.0 |
| 4/25/2015 16:37:00 | 49.21 | 45.41 | 151 | 1.77 | 0.92 | 8.2 |
| 4/25/2015 16:37:01 | 49.54 | 45.74 | 239 | 1.79 | 0.92 | 13.1 |
| 4/25/2015 16:37:02 | 49.87 | 46.07 | 407 | 1.79 | 0.91 | 22.3 |
| 4/25/2015 16:37:02 | 50.20 | 46.40 | 423 | 1.79 | 0.90 | 23.1 |
| 4/25/2015 16:37:21 | 50.53 | 46.73 | 5 | 1.77 | 0.82 | 0.3 |
| 4/25/2015 16:37:22 | 50.85 | 47.05 | 87 | 1.77 | 0.82 | 4.8 |
| 4/25/2015 16:37:23 | 51.18 | 47.38 | 230 | 1.76 | 1.12 | 12.6 |
| 4/25/2015 16:37:28 | 51.51 | 47.71 | 94 | 1.72 | 1.25 | 5.1 |
| 4/25/2015 16:37:30 | 51.84 | 48.04 | 185 | 1.74 | 1.19 | 10.1 |
| 4/25/2015 16:37:32 | 52.17 | 48.37 | 203 | 1.76 | 1.08 | 11.1 |
| 4/25/2015 16:37:57 | 52.49 | 48.69 | 0 | 1.77 | 1.15 | 0.0 |
| 4/25/2015 16:38:01 | 52.82 | 49.02 | 23 | 1.82 | 1.07 | 1.3 |
| 4/25/2015 16:38:03 | 53.15 | 49.35 | 145 | 1.76 | 1.07 | 7.9 |
| 4/25/2015 16:38:09 | 53.48 | 49.68 | 55 | 1.77 | 1.10 | 3.0 |
| 4/25/2015 16:38:16 | 53.81 | 50.01 | 55 | 1.76 | 1.01 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 16:38:21 | 54.13 | 50.33 | 81 | 1.79 | 1.07 | 4.4 |
| 4/25/2015 | 16:38:27 | 54.46 | 50.66 | 61 | 1.77 | 1.11 | 3.3 |
| 4/25/2015 | 16:38:33 | 54.79 | 50.99 | 55 | 1.76 | 1.12 | 3.0 |
| 4/25/2015 | 16:38:39 | 55.12 | 51.32 | 64 | 1.76 | 1.00 | 3.5 |
| 4/25/2015 | 16:38:43 | 55.32 | 51.52 | 64 | 1.74 | 1.18 | 3.5 |

## H1003 - Summary

**Pattern Number:**
AreaH_Lane3B-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 16:16:09

**End Date:**
4/25/2015 16:41:16

**Operator Note:**
'3.8 3.9 C Auto Complete'

**Northing:**
366,685.19

**Easting:**
251,785.52

**Tide (feet):**
3.80



## Hole: H1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 16:30:41 | 34.12 | 30.02 | 944 | 0.41 | 0.34 | 51.6 |
| 4/25/2015 16:30:41 | 34.45 | 30.35 | 944 | 0.41 | 0.34 | 51.6 |
| 4/25/2015 16:30:41 | 34.78 | 30.68 | 943 | 0.43 | 0.34 | 51.5 |
| 4/25/2015 16:30:42 | 35.11 | 31.01 | 943 | 0.43 | 0.34 | 51.5 |
| 4/25/2015 16:30:42 | 35.43 | 31.33 | 961 | 0.43 | 0.34 | 52.5 |
| 4/25/2015 16:30:43 | 35.76 | 31.66 | 961 | 0.43 | 0.34 | 52.5 |
| 4/25/2015 16:30:43 | 36.09 | 31.99 | 966 | 0.42 | 0.34 | 52.8 |
| 4/25/2015 16:30:43 | 36.42 | 32.32 | 966 | 0.41 | 0.34 | 52.8 |
| 4/25/2015 16:30:44 | 36.75 | 32.65 | 966 | 0.41 | 0.34 | 52.8 |
| 4/25/2015 16:30:44 | 37.07 | 32.97 | 952 | 0.41 | 0.34 | 52.1 |
| 4/25/2015 16:30:44 | 37.40 | 33.30 | 962 | 0.41 | 0.34 | 52.6 |
| 4/25/2015 16:30:45 | 37.73 | 33.63 | 962 | 0.41 | 0.34 | 52.6 |
| 4/25/2015 16:30:45 | 38.06 | 33.96 | 962 | 0.41 | 0.34 | 52.6 |
| 4/25/2015 16:30:45 | 38.39 | 34.29 | 964 | 0.42 | 0.34 | 52.7 |
| 4/25/2015 16:30:46 | 38.71 | 34.61 | 964 | 0.33 | 0.33 | 52.7 |
| 4/25/2015 16:30:46 | 39.04 | 34.94 | 964 | 0.33 | 0.33 | 52.7 |
| 4/25/2015 16:30:46 | 39.37 | 35.27 | 967 | 0.31 | 0.32 | 52.9 |
| 4/25/2015 16:30:47 | 39.70 | 35.60 | 992 | 0.31 | 0.32 | 54.2 |
| 4/25/2015 16:30:47 | 40.03 | 35.93 | 992 | 0.31 | 0.32 | 54.2 |
| 4/25/2015 16:30:48 | 40.35 | 36.25 | 1,005 | 0.31 | 0.32 | 54.9 |
| 4/25/2015 16:30:48 | 40.68 | 36.58 | 1,008 | 0.30 | 0.32 | 55.1 |
| 4/25/2015 16:30:48 | 41.01 | 36.91 | 1,008 | 0.30 | 0.32 | 55.1 |
| 4/25/2015 16:30:49 | 41.34 | 37.24 | 1,008 | 0.29 | 0.32 | 55.1 |
| 4/25/2015 16:30:49 | 41.67 | 37.57 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/25/2015 16:30:50 | 41.99 | 37.89 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/25/2015 16:30:50 | 42.32 | 38.22 | 1,019 | 0.29 | 0.32 | 55.7 |
| 4/25/2015 16:30:50 | 42.65 | 38.55 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/25/2015 16:30:51 | 42.98 | 38.88 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/25/2015 16:30:51 | 43.31 | 39.21 | 1,006 | 0.30 | 0.32 | 55.0 |
| 4/25/2015 16:30:51 | 43.64 | 39.54 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/25/2015 16:30:52 | 43.96 | 39.86 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/25/2015 16:30:52 | 44.29 | 40.19 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/25/2015 16:30:52 | 44.62 | 40.52 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/25/2015 16:30:53 | 44.95 | 40.85 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/25/2015 16:30:53 | 45.28 | 41.18 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/25/2015 16:30:53 | 45.60 | 41.50 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/25/2015 16:30:54 | 45.93 | 41.83 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/25/2015 16:30:54 | 46.26 | 42.16 | 1,017 | 0.31 | 0.33 | 55.6 |
| 4/25/2015 16:30:54 | 46.59 | 42.49 | 1,005 | 0.31 | 0.32 | 54.9 |
| 4/25/2015 16:30:55 | 46.92 | 42.82 | 1,005 | 0.31 | 0.32 | 54.9 |
| 4/25/2015 16:30:55 | 47.24 | 43.14 | 1,005 | 0.30 | 0.32 | 54.9 |
| 4/25/2015 16:30:55 | 47.57 | 43.47 | 1,036 | 0.30 | 0.32 | 56.6 |
| 4/25/2015 16:30:56 | 47.90 | 43.80 | 1,036 | 0.30 | 0.32 | 56.6 |
| 4/25/2015 16:30:56 | 48.23 | 44.13 | 1,042 | 0.30 | 0.32 | 57.0 |
| 4/25/2015 16:30:56 | 48.56 | 44.46 | 1,043 | 0.30 | 0.32 | 57.1 |
| 4/25/2015 16:30:57 | 48.88 | 44.78 | 1,043 | 0.30 | 0.32 | 57.1 |
| 4/25/2015 16:30:57 | 49.21 | 45.11 | 1,039 | 0.30 | 0.32 | 56.8 |
| 4/25/2015 16:30:57 | 49.54 | 45.44 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/25/2015 16:30:58 | 49.87 | 45.77 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/25/2015 16:30:58 | 50.20 | 46.10 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/25/2015 16:30:58 | 50.53 | 46.43 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/25/2015 16:30:59 | 50.85 | 46.75 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/25/2015 16:30:59 | 51.18 | 47.08 | 1,017 | 0.28 | 0.36 | 55.6 |
| 4/25/2015 16:31:13 | 51.51 | 47.41 | 38 | 2.00 | 0.32 | 2.1 |
| 4/25/2015 16:31:13 | 51.84 | 47.74 | 38 | 2.00 | 0.32 | 2.1 |
| 4/25/2015 16:31:13 | 52.17 | 48.07 | 38 | 2.72 | 0.35 | 2.1 |
| 4/25/2015 16:31:14 | 52.49 | 48.39 | 229 | 3.67 | 0.34 | 12.5 |
| 4/25/2015 16:31:15 | 52.82 | 48.72 | 352 | 2.62 | 0.34 | 19.3 |
| 4/25/2015 16:31:15 | 53.15 | 49.05 | 352 | 2.62 | 0.34 | 19.3 |
| 4/25/2015 16:31:15 | 53.48 | 49.38 | 495 | 2.33 | 0.34 | 27.1 |
| 4/25/2015 16:31:16 | 53.81 | 49.71 | 643 | 3.74 | 0.37 | 35.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 16:31:18 | 54.13 | 50.03 | 456 | 5.29 | 0.39 | 24.9 |
| 4/25/2015 | 16:31:23 | 54.46 | 50.36 | 58 | 3.56 | 0.38 | 3.2 |
| 4/25/2015 | 16:31:24 | 54.79 | 50.69 | 118 | 3.32 | 0.37 | 6.5 |
| 4/25/2015 | 16:31:25 | 55.12 | 51.02 | 220 | 3.64 | 0.35 | 12.0 |
| 4/25/2015 | 16:31:31 | 55.45 | 51.35 | 0 | 2.99 | 0.35 | 0.0 |
| 4/25/2015 | 16:31:32 | 55.77 | 51.67 | 115 | 3.28 | 0.36 | 6.3 |
| 4/25/2015 | 16:31:33 | 56.10 | 52.00 | 326 | 3.10 | 0.36 | 17.9 |
| 4/25/2015 | 16:31:33 | 56.43 | 52.33 | 446 | 2.97 | 0.35 | 24.4 |
| 4/25/2015 | 16:31:34 | 56.76 | 52.66 | 578 | 3.14 | 0.36 | 31.6 |
| 4/25/2015 | 16:31:34 | 57.09 | 52.99 | 574 | 3.16 | 0.36 | 31.4 |
| 4/25/2015 | 16:31:35 | 57.41 | 53.31 | 590 | 3.33 | 0.37 | 32.2 |
| 4/25/2015 | 16:31:36 | 57.74 | 53.64 | 555 | 3.87 | 0.38 | 30.3 |
| 4/25/2015 | 16:31:39 | 58.07 | 53.97 | 98 | 3.74 | 0.40 | 5.4 |
| 4/25/2015 | 16:32:07 | 58.40 | 54.30 | 20 | 3.28 | 0.39 | 1.1 |
| 4/25/2015 | 16:32:14 | 58.73 | 54.63 | 59 | 3.12 | 0.40 | 3.2 |
| 4/25/2015 | 16:32:18 | 58.91 | 54.81 | 40 | 3.18 | 0.40 | 2.2 |

## H1004 - Summary

**Pattern Number:**
AreaH_Lane3B-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 16:29:03

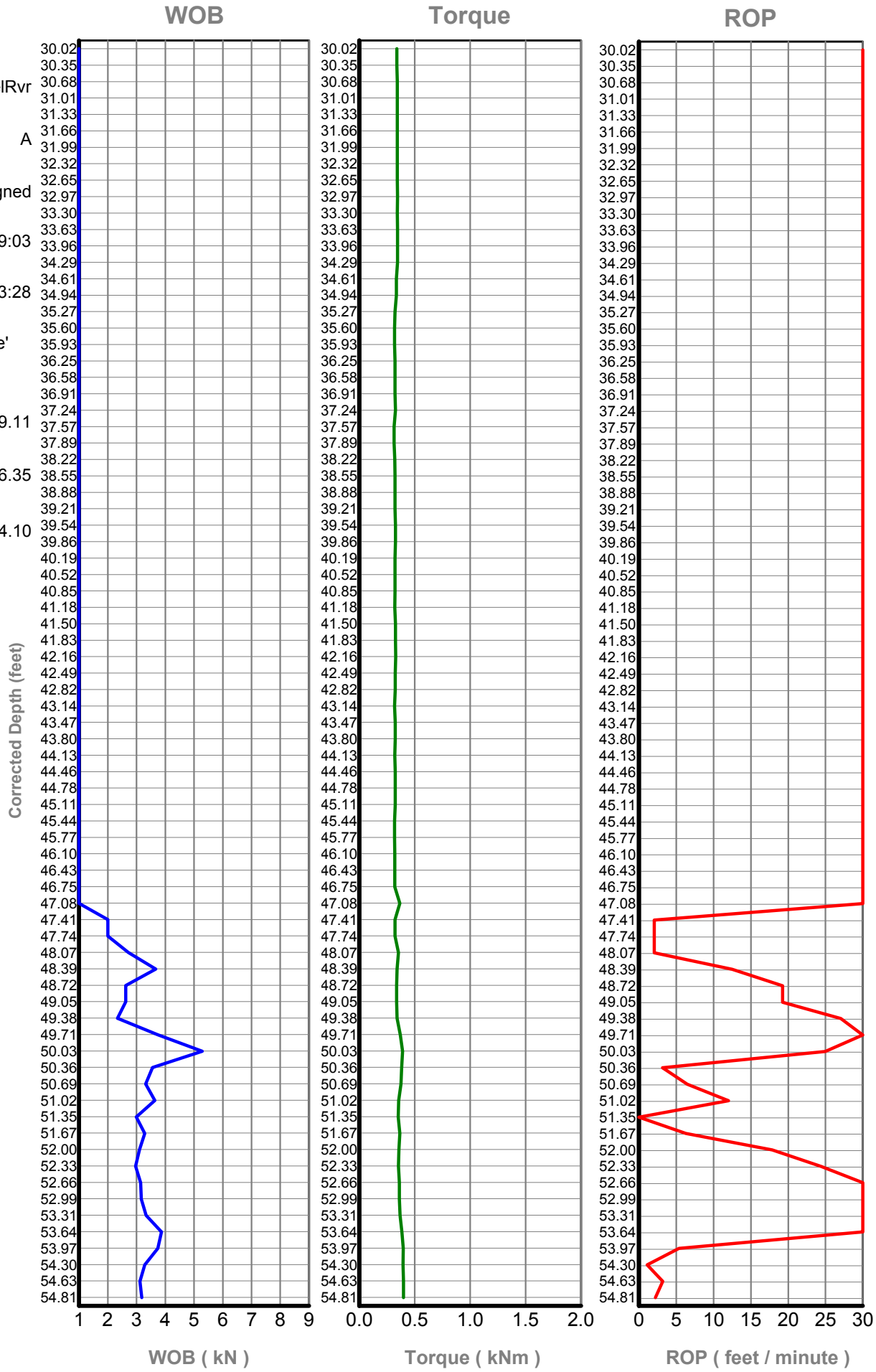
**End Date:**
4/25/2015 16:33:28

**Operator Note:**
'4.1 3.9 b Auto Complete'

**Northing:**
366,639.11

**Easting:**
251,726.35

**Tide (feet):**
4.10



## Hole: H1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 16:35:30 | 34.12 | 30.02 | 1,093 | 0.38 | 0.32 | 59.8 |
| 4/25/2015 16:35:29 | 34.45 | 30.35 | 1,078 | 0.39 | 0.32 | 59.0 |
| 4/25/2015 16:35:30 | 34.78 | 30.68 | 1,067 | 0.39 | 0.33 | 58.3 |
| 4/25/2015 16:35:31 | 35.11 | 31.01 | 1,067 | 0.39 | 0.33 | 58.3 |
| 4/25/2015 16:35:31 | 35.43 | 31.33 | 1,061 | 0.41 | 0.32 | 58.0 |
| 4/25/2015 16:35:31 | 35.76 | 31.66 | 1,052 | 0.42 | 0.32 | 57.5 |
| 4/25/2015 16:35:32 | 36.09 | 31.99 | 1,052 | 0.42 | 0.32 | 57.5 |
| 4/25/2015 16:35:32 | 36.42 | 32.32 | 1,029 | 0.43 | 0.32 | 56.3 |
| 4/25/2015 16:35:32 | 36.75 | 32.65 | 1,024 | 0.42 | 0.33 | 56.0 |
| 4/25/2015 16:35:33 | 37.07 | 32.97 | 1,024 | 0.42 | 0.33 | 56.0 |
| 4/25/2015 16:35:33 | 37.40 | 33.30 | 1,009 | 0.41 | 0.32 | 55.2 |
| 4/25/2015 16:35:33 | 37.73 | 33.63 | 1,003 | 0.41 | 0.33 | 54.8 |
| 4/25/2015 16:35:34 | 38.06 | 33.96 | 1,003 | 0.41 | 0.33 | 54.8 |
| 4/25/2015 16:35:34 | 38.39 | 34.29 | 998 | 0.41 | 0.32 | 54.6 |
| 4/25/2015 16:35:34 | 38.71 | 34.61 | 992 | 0.42 | 0.32 | 54.2 |
| 4/25/2015 16:35:35 | 39.04 | 34.94 | 992 | 0.42 | 0.32 | 54.2 |
| 4/25/2015 16:35:35 | 39.37 | 35.27 | 985 | 0.42 | 0.32 | 53.9 |
| 4/25/2015 16:35:35 | 39.70 | 35.60 | 997 | 0.43 | 0.33 | 54.5 |
| 4/25/2015 16:35:36 | 40.03 | 35.93 | 997 | 0.43 | 0.33 | 54.5 |
| 4/25/2015 16:35:36 | 40.35 | 36.25 | 997 | 0.43 | 0.32 | 54.5 |
| 4/25/2015 16:35:36 | 40.68 | 36.58 | 1,000 | 0.43 | 0.32 | 54.7 |
| 4/25/2015 16:35:37 | 41.01 | 36.91 | 1,000 | 0.42 | 0.32 | 54.7 |
| 4/25/2015 16:35:37 | 41.34 | 37.24 | 1,000 | 0.42 | 0.32 | 54.7 |
| 4/25/2015 16:35:37 | 41.67 | 37.57 | 1,003 | 0.41 | 0.32 | 54.9 |
| 4/25/2015 16:35:38 | 41.99 | 37.89 | 997 | 0.40 | 0.32 | 54.5 |
| 4/25/2015 16:35:38 | 42.32 | 38.22 | 997 | 0.40 | 0.32 | 54.5 |
| 4/25/2015 16:35:38 | 42.65 | 38.55 | 994 | 0.41 | 0.32 | 54.4 |
| 4/25/2015 16:35:39 | 42.98 | 38.88 | 985 | 0.40 | 0.32 | 53.9 |
| 4/25/2015 16:35:39 | 43.31 | 39.21 | 985 | 0.40 | 0.32 | 53.9 |
| 4/25/2015 16:35:39 | 43.64 | 39.54 | 1,004 | 0.40 | 0.32 | 54.9 |
| 4/25/2015 16:35:40 | 43.96 | 39.86 | 995 | 0.39 | 0.32 | 54.4 |
| 4/25/2015 16:35:40 | 44.29 | 40.19 | 995 | 0.39 | 0.32 | 54.4 |
| 4/25/2015 16:35:41 | 44.62 | 40.52 | 1,005 | 0.39 | 0.32 | 54.9 |
| 4/25/2015 16:35:41 | 44.95 | 40.85 | 1,008 | 0.36 | 0.31 | 55.1 |
| 4/25/2015 16:35:45 | 45.28 | 41.18 | 0 | 0.30 | 0.32 | 0.0 |
| 4/25/2015 16:35:46 | 45.60 | 41.50 | 97 | 0.30 | 0.32 | 5.3 |
| 4/25/2015 16:35:46 | 45.93 | 41.83 | 97 | 0.30 | 0.32 | 5.3 |
| 4/25/2015 16:35:46 | 46.26 | 42.16 | 306 | 0.30 | 0.32 | 16.7 |
| 4/25/2015 16:35:47 | 46.59 | 42.49 | 521 | 0.30 | 0.32 | 28.5 |
| 4/25/2015 16:35:47 | 46.92 | 42.82 | 521 | 0.30 | 0.32 | 28.5 |
| 4/25/2015 16:35:47 | 47.24 | 43.14 | 720 | 0.30 | 0.32 | 39.4 |
| 4/25/2015 16:35:48 | 47.57 | 43.47 | 932 | 0.30 | 0.32 | 51.0 |
| 4/25/2015 16:35:48 | 47.90 | 43.80 | 932 | 0.30 | 0.32 | 51.0 |
| 4/25/2015 16:35:48 | 48.23 | 44.13 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/25/2015 16:35:49 | 48.56 | 44.46 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 16:35:49 | 48.88 | 44.78 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 16:35:49 | 49.21 | 45.11 | 1,040 | 0.30 | 0.32 | 56.9 |
| 4/25/2015 16:35:50 | 49.54 | 45.44 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 16:35:51 | 49.87 | 45.77 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 16:35:51 | 50.20 | 46.10 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 16:35:51 | 50.53 | 46.43 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 16:35:52 | 50.85 | 46.75 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 16:35:52 | 51.18 | 47.08 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 16:35:52 | 51.51 | 47.41 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 16:35:53 | 51.84 | 47.74 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 16:35:53 | 52.17 | 48.07 | 1,055 | 0.31 | 0.34 | 57.7 |
| 4/25/2015 16:36:00 | 52.49 | 48.39 | 0 | 1.95 | 0.33 | 0.0 |
| 4/25/2015 16:36:01 | 52.82 | 48.72 | 91 | 1.95 | 0.33 | 5.0 |
| 4/25/2015 16:36:02 | 53.15 | 49.05 | 283 | 1.94 | 0.33 | 15.5 |
| 4/25/2015 16:36:02 | 53.48 | 49.38 | 283 | 1.94 | 0.33 | 15.5 |
| 4/25/2015 16:36:02 | 53.81 | 49.71 | 468 | 2.23 | 0.33 | 25.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 16:36:03 | 54.13 | 50.03 | 654 | 3.62 | 0.35 | 35.7 |
| 4/25/2015 | 16:36:04 | 54.46 | 50.36 | 761 | 4.90 | 0.39 | 41.6 |
| 4/25/2015 | 16:36:06 | 54.79 | 50.69 | 296 | 4.78 | 0.39 | 16.2 |
| 4/25/2015 | 16:36:07 | 55.12 | 51.02 | 184 | 3.55 | 0.37 | 10.1 |
| 4/25/2015 | 16:36:07 | 55.45 | 51.35 | 240 | 3.16 | 0.36 | 13.1 |
| 4/25/2015 | 16:36:14 | 55.77 | 51.67 | 102 | 3.03 | 0.39 | 5.6 |
| 4/25/2015 | 16:36:17 | 56.10 | 52.00 | 119 | 3.10 | 0.40 | 6.5 |
| 4/25/2015 | 16:36:22 | 56.43 | 52.33 | 69 | 3.05 | 0.40 | 3.8 |
| 4/25/2015 | 16:36:26 | 56.76 | 52.66 | 82 | 3.44 | 0.40 | 4.5 |
| 4/25/2015 | 16:36:31 | 57.09 | 52.99 | 63 | 3.45 | 0.39 | 3.5 |
| 4/25/2015 | 16:36:35 | 57.41 | 53.31 | 98 | 4.29 | 0.39 | 5.4 |
| 4/25/2015 | 16:36:38 | 57.74 | 53.64 | 96 | 3.56 | 0.40 | 5.2 |
| 4/25/2015 | 16:36:51 | 58.07 | 53.97 | 28 | 3.73 | 0.39 | 1.5 |
| 4/25/2015 | 16:36:54 | 58.40 | 54.30 | 110 | 3.77 | 0.40 | 6.0 |
| 4/25/2015 | 16:36:57 | 58.73 | 54.63 | 105 | 3.64 | 0.40 | 5.7 |
| 4/25/2015 | 16:36:59 | 58.92 | 54.82 | 116 | 3.84 | 0.39 | 6.3 |

## H1005 - Summary

**Pattern Number:**
AreaH_Lane3B-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 16:33:40

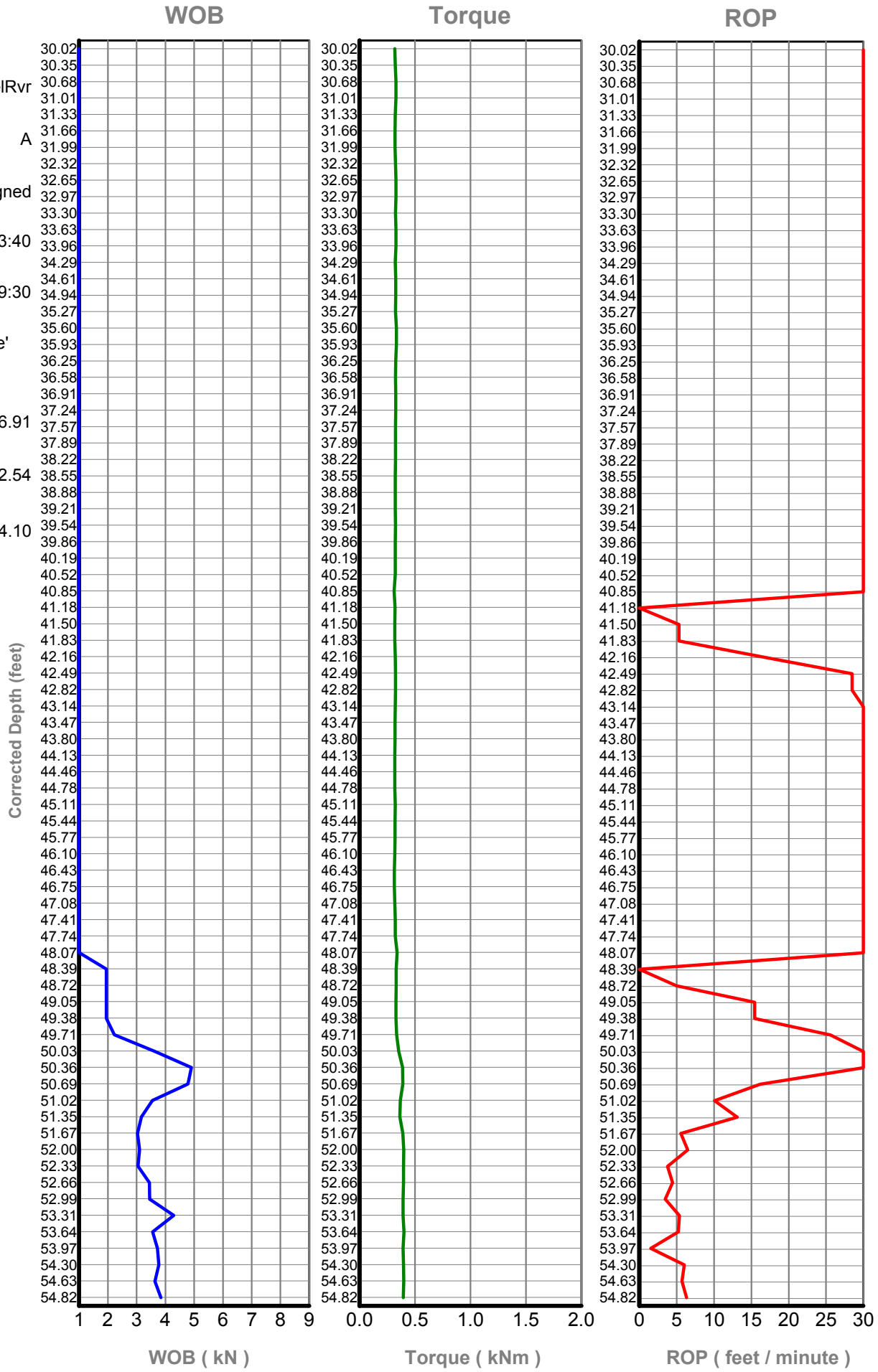
**End Date:**
4/25/2015 16:39:30

**Operator Note:**
'4.1 3.9 b Auto Complete'

**Northing:**
366,596.91

**Easting:**
251,672.54

**Tide (feet):**
4.10



## Hole: H1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:47:40 | 34.45 | 30.05 | 723 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 10:47:41 | 34.78 | 30.38 | 723 | 1.08 | 0.19 | 39.5 |
| 4/27/2015 10:47:41 | 35.11 | 30.71 | 723 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 10:47:42 | 35.43 | 31.03 | 716 | 1.06 | 0.19 | 39.1 |
| 4/27/2015 10:47:42 | 35.76 | 31.36 | 723 | 1.08 | 0.19 | 39.5 |
| 4/27/2015 10:47:43 | 36.09 | 31.69 | 720 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 10:47:43 | 36.42 | 32.02 | 717 | 1.07 | 0.20 | 39.2 |
| 4/27/2015 10:47:44 | 36.75 | 32.35 | 717 | 1.07 | 0.19 | 39.2 |
| 4/27/2015 10:47:45 | 37.07 | 32.67 | 720 | 1.07 | 0.19 | 39.4 |
| 4/27/2015 10:47:45 | 37.40 | 33.00 | 720 | 1.07 | 0.19 | 39.4 |
| 4/27/2015 10:47:46 | 37.73 | 33.33 | 720 | 1.06 | 0.19 | 39.4 |
| 4/27/2015 10:47:46 | 38.06 | 33.66 | 717 | 1.07 | 0.19 | 39.2 |
| 4/27/2015 10:47:47 | 38.39 | 33.99 | 726 | 1.09 | 0.19 | 39.7 |
| 4/27/2015 10:47:47 | 38.71 | 34.31 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 10:47:48 | 39.04 | 34.64 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 10:47:48 | 39.37 | 34.97 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 10:47:48 | 39.70 | 35.30 | 729 | 1.07 | 0.19 | 39.9 |
| 4/27/2015 10:47:49 | 40.03 | 35.63 | 730 | 1.07 | 0.19 | 39.9 |
| 4/27/2015 10:47:49 | 40.35 | 35.95 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 10:47:50 | 40.68 | 36.28 | 723 | 1.07 | 0.21 | 39.5 |
| 4/27/2015 10:47:50 | 41.01 | 36.61 | 713 | 1.07 | 0.19 | 39.0 |
| 4/27/2015 10:47:51 | 41.34 | 36.94 | 714 | 1.07 | 0.20 | 39.0 |
| 4/27/2015 10:47:51 | 41.67 | 37.27 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 10:47:52 | 41.99 | 37.59 | 708 | 1.06 | 0.19 | 38.7 |
| 4/27/2015 10:47:52 | 42.32 | 37.92 | 710 | 1.08 | 0.19 | 38.8 |
| 4/27/2015 10:47:53 | 42.65 | 38.25 | 720 | 1.06 | 0.19 | 39.4 |
| 4/27/2015 10:47:53 | 42.98 | 38.58 | 720 | 1.07 | 0.19 | 39.4 |
| 4/27/2015 10:47:54 | 43.31 | 38.91 | 724 | 1.07 | 0.19 | 39.6 |
| 4/27/2015 10:47:55 | 43.64 | 39.24 | 715 | 1.07 | 0.19 | 39.1 |
| 4/27/2015 10:47:55 | 43.96 | 39.56 | 725 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 10:47:56 | 44.29 | 39.89 | 718 | 1.08 | 0.19 | 39.3 |
| 4/27/2015 10:47:56 | 44.62 | 40.22 | 718 | 1.07 | 0.19 | 39.3 |
| 4/27/2015 10:47:57 | 44.95 | 40.55 | 706 | 1.07 | 0.19 | 38.6 |
| 4/27/2015 10:47:57 | 45.28 | 40.88 | 706 | 1.08 | 0.19 | 38.6 |
| 4/27/2015 10:47:58 | 45.60 | 41.20 | 717 | 1.07 | 0.19 | 39.2 |
| 4/27/2015 10:47:58 | 45.93 | 41.53 | 710 | 1.07 | 0.19 | 38.8 |
| 4/27/2015 10:47:59 | 46.26 | 41.86 | 706 | 1.07 | 0.19 | 38.6 |
| 4/27/2015 10:47:59 | 46.59 | 42.19 | 703 | 1.06 | 0.19 | 38.4 |
| 4/27/2015 10:48:00 | 46.92 | 42.52 | 715 | 1.08 | 0.19 | 39.1 |
| 4/27/2015 10:48:00 | 47.24 | 42.84 | 711 | 1.08 | 0.19 | 38.9 |
| 4/27/2015 10:48:01 | 47.57 | 43.17 | 711 | 1.08 | 0.19 | 38.9 |
| 4/27/2015 10:48:01 | 47.90 | 43.50 | 707 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 10:48:01 | 48.23 | 43.83 | 715 | 1.07 | 0.19 | 39.1 |
| 4/27/2015 10:48:02 | 48.56 | 44.16 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 10:48:22 | 48.88 | 44.48 | 17 | 1.13 | 0.88 | 0.9 |
| 4/27/2015 10:48:23 | 49.21 | 44.81 | 122 | 1.09 | 0.81 | 6.7 |
| 4/27/2015 10:48:24 | 49.54 | 45.14 | 265 | 1.09 | 0.97 | 14.5 |
| 4/27/2015 10:48:27 | 49.87 | 45.47 | 200 | 1.15 | 1.23 | 10.9 |
| 4/27/2015 10:48:28 | 50.20 | 45.80 | 164 | 0.47 | 1.36 | 9.0 |
| 4/27/2015 10:48:30 | 50.53 | 46.13 | 170 | 1.13 | 1.02 | 9.3 |
| 4/27/2015 10:48:32 | 50.85 | 46.45 | 179 | 1.05 | 1.13 | 9.8 |
| 4/27/2015 10:48:33 | 51.18 | 46.78 | 310 | 1.07 | 0.96 | 17.0 |
| 4/27/2015 10:48:34 | 51.51 | 47.11 | 287 | 1.07 | 1.13 | 15.7 |
| 4/27/2015 10:48:38 | 51.84 | 47.44 | 70 | 1.13 | 1.22 | 3.8 |
| 4/27/2015 10:48:43 | 52.17 | 47.77 | 84 | 1.09 | 1.20 | 4.6 |
| 4/27/2015 10:48:53 | 52.49 | 48.09 | 39 | 1.10 | 1.12 | 2.1 |
| 4/27/2015 10:49:01 | 52.82 | 48.42 | 38 | 1.09 | 0.96 | 2.1 |
| 4/27/2015 10:49:09 | 53.15 | 48.75 | 52 | 1.14 | 1.10 | 2.8 |
| 4/27/2015 10:49:11 | 53.31 | 48.91 | 64 | 0.56 | 1.09 | 3.5 |

## H1006 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:43:17

**End Date:**
4/27/2015 10:52:07

**Operator Note:**
'4.4 4.5 a Auto Complete'

**Northing:**
365,193.72

**Easting:**
249,323.99

**Tide (feet):**
4.40



## Hole: H1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:45:52 | 34.45 | 30.05 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 10:45:52 | 34.78 | 30.38 | 1,107 | 0.29 | 0.33 | 60.5 |
| 4/27/2015 10:45:52 | 35.11 | 30.71 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:45:53 | 35.43 | 31.03 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:45:53 | 35.76 | 31.36 | 1,110 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 10:45:53 | 36.09 | 31.69 | 1,110 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 10:45:53 | 36.42 | 32.02 | 1,107 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 10:45:54 | 36.75 | 32.35 | 1,098 | 0.29 | 0.33 | 60.0 |
| 4/27/2015 10:45:54 | 37.07 | 32.67 | 1,098 | 0.29 | 0.33 | 60.0 |
| 4/27/2015 10:45:55 | 37.40 | 33.00 | 1,104 | 0.30 | 0.32 | 60.4 |
| 4/27/2015 10:45:55 | 37.73 | 33.33 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 10:45:56 | 38.06 | 33.66 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 10:45:56 | 38.39 | 33.99 | 1,095 | 0.29 | 0.32 | 59.9 |
| 4/27/2015 10:45:56 | 38.71 | 34.31 | 1,095 | 0.29 | 0.32 | 59.9 |
| 4/27/2015 10:45:56 | 39.04 | 34.64 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 10:45:57 | 39.37 | 34.97 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 10:45:57 | 39.70 | 35.30 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 10:45:57 | 40.03 | 35.63 | 1,106 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 10:45:58 | 40.35 | 35.95 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 10:45:58 | 40.68 | 36.28 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 10:45:58 | 41.01 | 36.61 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 10:45:59 | 41.34 | 36.94 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 10:45:59 | 41.67 | 37.27 | 1,107 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 10:45:59 | 41.99 | 37.59 | 1,113 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 10:46:00 | 42.32 | 37.92 | 1,113 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 10:46:00 | 42.65 | 38.25 | 1,111 | 0.29 | 0.33 | 60.7 |
| 4/27/2015 10:46:00 | 42.98 | 38.58 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 10:46:01 | 43.31 | 38.91 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 10:46:01 | 43.64 | 39.24 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:01 | 43.96 | 39.56 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:01 | 44.29 | 39.89 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 10:46:02 | 44.62 | 40.22 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:02 | 44.95 | 40.55 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:02 | 45.28 | 40.88 | 1,095 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 10:46:03 | 45.60 | 41.20 | 1,099 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:03 | 45.93 | 41.53 | 1,099 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:03 | 46.26 | 41.86 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:04 | 46.59 | 42.19 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 10:46:04 | 46.92 | 42.52 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/27/2015 10:46:04 | 47.24 | 42.84 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:05 | 47.57 | 43.17 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:05 | 47.90 | 43.50 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 10:46:06 | 48.23 | 43.83 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:06 | 48.56 | 44.16 | 1,098 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 10:46:06 | 48.88 | 44.48 | 1,093 | 0.26 | 0.34 | 59.8 |
| 4/27/2015 10:46:18 | 49.21 | 44.81 | 0 | 2.65 | 0.33 | 0.0 |
| 4/27/2015 10:46:19 | 49.54 | 45.14 | 109 | 4.74 | 0.40 | 6.0 |
| 4/27/2015 10:46:22 | 49.87 | 45.47 | 69 | 4.89 | 0.37 | 3.8 |
| 4/27/2015 10:46:22 | 50.20 | 45.80 | 92 | 3.38 | 0.37 | 5.0 |
| 4/27/2015 10:46:23 | 50.53 | 46.13 | 289 | 2.83 | 0.36 | 15.8 |
| 4/27/2015 10:46:30 | 50.85 | 46.45 | 76 | 4.45 | 0.41 | 4.1 |
| 4/27/2015 10:46:32 | 51.18 | 46.78 | 188 | 5.02 | 0.37 | 10.3 |
| 4/27/2015 10:46:32 | 51.51 | 47.11 | 229 | 3.65 | 0.37 | 12.5 |
| 4/27/2015 10:46:39 | 51.84 | 47.44 | 31 | 3.81 | 0.37 | 1.7 |
| 4/27/2015 10:46:40 | 52.17 | 47.77 | 173 | 3.12 | 0.35 | 9.4 |
| 4/27/2015 10:46:41 | 52.49 | 48.09 | 281 | 2.66 | 0.35 | 15.4 |
| 4/27/2015 10:46:51 | 52.82 | 48.42 | 24 | 3.08 | 0.38 | 1.3 |
| 4/27/2015 10:46:52 | 53.15 | 48.75 | 136 | 3.20 | 0.36 | 7.4 |
| 4/27/2015 10:46:52 | 53.48 | 49.08 | 255 | 2.69 | 0.36 | 14.0 |
| 4/27/2015 10:46:53 | 53.81 | 49.41 | 255 | 2.37 | 0.36 | 14.0 |
| 4/27/2015 10:46:53 | 54.13 | 49.73 | 393 | 2.21 | 0.35 | 21.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:46:54 | 54.46 | 50.06 | 543 | 2.17 | 0.33 | 29.7 |
| 4/27/2015 | 10:46:54 | 54.79 | 50.39 | 663 | 2.16 | 0.36 | 36.3 |
| 4/27/2015 | 10:46:55 | 55.12 | 50.72 | 669 | 2.37 | 0.36 | 36.6 |
| 4/27/2015 | 10:46:55 | 55.45 | 51.05 | 683 | 2.71 | 0.37 | 37.3 |
| 4/27/2015 | 10:46:57 | 55.77 | 51.37 | 656 | 2.63 | 0.40 | 35.9 |
| 4/27/2015 | 10:46:58 | 56.10 | 51.70 | 470 | 2.95 | 0.38 | 25.7 |
| 4/27/2015 | 10:46:59 | 56.43 | 52.03 | 345 | 2.78 | 0.39 | 18.9 |
| 4/27/2015 | 10:47:01 | 56.76 | 52.36 | 264 | 2.80 | 0.40 | 14.5 |
| 4/27/2015 | 10:47:02 | 57.09 | 52.69 | 224 | 2.76 | 0.40 | 12.3 |
| 4/27/2015 | 10:47:08 | 57.41 | 53.01 | 0 | 2.77 | 0.39 | 0.0 |
| 4/27/2015 | 10:47:09 | 57.74 | 53.34 | 90 | 2.80 | 0.39 | 4.9 |
| 4/27/2015 | 10:47:11 | 58.07 | 53.67 | 224 | 3.33 | 0.40 | 12.3 |
| 4/27/2015 | 10:47:17 | 58.40 | 54.00 | 31 | 2.84 | 0.40 | 1.7 |
| 4/27/2015 | 10:47:20 | 58.73 | 54.33 | 107 | 3.10 | 0.40 | 5.8 |
| 4/27/2015 | 10:47:24 | 59.06 | 54.66 | 89 | 2.85 | 0.40 | 4.9 |
| 4/27/2015 | 10:47:28 | 59.38 | 54.98 | 97 | 3.90 | 0.41 | 5.3 |
| 4/27/2015 | 10:47:29 | 59.48 | 55.08 | 82 | 4.26 | 0.41 | 4.5 |

## H1007 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:43:14

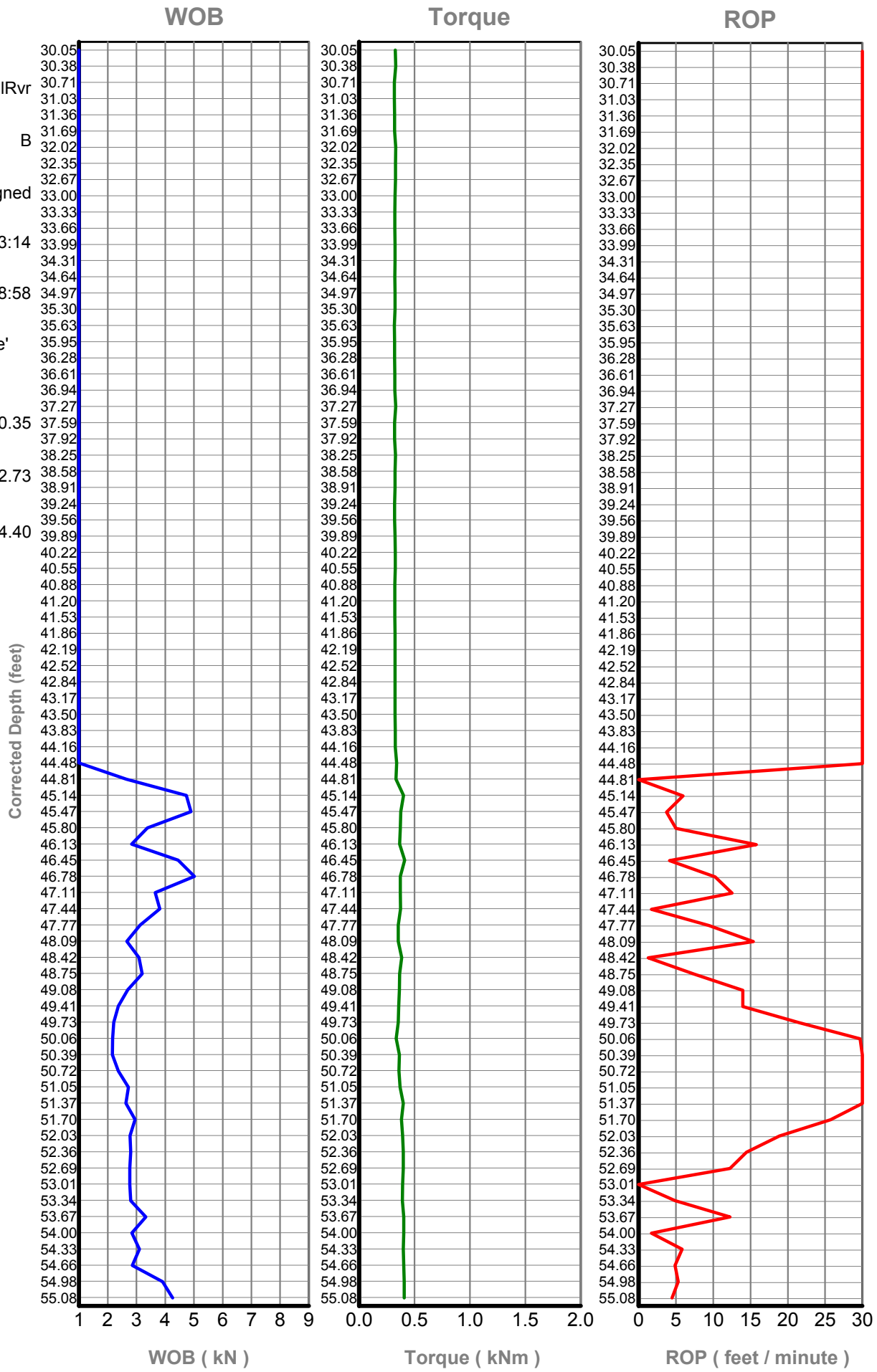
**End Date:**
4/27/2015 10:48:58

**Operator Note:**
'4.4 4.5 b Auto Complete'

**Northing:**
365,240.35

**Easting:**
249,382.73

**Tide (feet):**
4.40



## Hole: H1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:46:12 | 34.45 | 30.05 | 1,123 | 1.72 | 0.29 | 61.4 |
| 4/27/2015 10:46:12 | 34.78 | 30.38 | 1,118 | 1.72 | 0.28 | 61.2 |
| 4/27/2015 10:46:12 | 35.11 | 30.71 | 1,122 | 1.74 | 0.29 | 61.3 |
| 4/27/2015 10:46:13 | 35.43 | 31.03 | 1,122 | 1.74 | 0.29 | 61.3 |
| 4/27/2015 10:46:13 | 35.76 | 31.36 | 1,144 | 1.72 | 0.28 | 62.5 |
| 4/27/2015 10:46:13 | 36.09 | 31.69 | 1,144 | 1.72 | 0.28 | 62.5 |
| 4/27/2015 10:46:13 | 36.42 | 32.02 | 1,133 | 1.72 | 0.28 | 62.0 |
| 4/27/2015 10:46:14 | 36.75 | 32.35 | 1,129 | 1.72 | 0.28 | 61.7 |
| 4/27/2015 10:46:14 | 37.07 | 32.67 | 1,129 | 1.72 | 0.28 | 61.7 |
| 4/27/2015 10:46:14 | 37.40 | 33.00 | 1,142 | 1.71 | 0.29 | 62.4 |
| 4/27/2015 10:46:15 | 37.73 | 33.33 | 1,142 | 1.71 | 0.29 | 62.4 |
| 4/27/2015 10:46:15 | 38.06 | 33.66 | 1,139 | 1.73 | 0.29 | 62.3 |
| 4/27/2015 10:46:15 | 38.39 | 33.99 | 1,136 | 1.72 | 0.29 | 62.1 |
| 4/27/2015 10:46:16 | 38.71 | 34.31 | 1,136 | 1.72 | 0.29 | 62.1 |
| 4/27/2015 10:46:16 | 39.04 | 34.64 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:46:17 | 39.37 | 34.97 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:46:16 | 39.70 | 35.30 | 1,139 | 1.76 | 0.29 | 62.3 |
| 4/27/2015 10:46:17 | 40.03 | 35.63 | 1,133 | 1.73 | 0.29 | 62.0 |
| 4/27/2015 10:46:18 | 40.35 | 35.95 | 1,133 | 1.73 | 0.29 | 62.0 |
| 4/27/2015 10:46:18 | 40.68 | 36.28 | 1,102 | 1.72 | 0.29 | 60.3 |
| 4/27/2015 10:46:18 | 41.01 | 36.61 | 1,102 | 1.72 | 0.29 | 60.3 |
| 4/27/2015 10:46:18 | 41.34 | 36.94 | 1,102 | 1.73 | 0.29 | 60.3 |
| 4/27/2015 10:46:19 | 41.67 | 37.27 | 1,124 | 1.72 | 0.29 | 61.5 |
| 4/27/2015 10:46:19 | 41.99 | 37.59 | 1,124 | 1.72 | 0.29 | 61.5 |
| 4/27/2015 10:46:19 | 42.32 | 37.92 | 1,124 | 1.71 | 0.29 | 61.5 |
| 4/27/2015 10:46:20 | 42.65 | 38.25 | 1,124 | 1.71 | 0.29 | 61.5 |
| 4/27/2015 10:46:20 | 42.98 | 38.58 | 1,125 | 1.73 | 0.28 | 61.5 |
| 4/27/2015 10:46:20 | 43.31 | 38.91 | 1,118 | 1.72 | 0.29 | 61.2 |
| 4/27/2015 10:46:21 | 43.64 | 39.24 | 1,118 | 1.72 | 0.29 | 61.2 |
| 4/27/2015 10:46:21 | 43.96 | 39.56 | 1,152 | 1.76 | 0.28 | 63.0 |
| 4/27/2015 10:46:21 | 44.29 | 39.89 | 1,152 | 1.76 | 0.28 | 63.0 |
| 4/27/2015 10:46:21 | 44.62 | 40.22 | 1,095 | 1.73 | 0.28 | 59.9 |
| 4/27/2015 10:46:22 | 44.95 | 40.55 | 1,095 | 1.66 | 0.28 | 59.9 |
| 4/27/2015 10:46:22 | 45.28 | 40.88 | 1,095 | 1.66 | 0.28 | 59.9 |
| 4/27/2015 10:46:22 | 45.60 | 41.20 | 1,082 | 1.72 | 0.28 | 59.2 |
| 4/27/2015 10:46:23 | 45.93 | 41.53 | 1,082 | 1.72 | 0.28 | 59.2 |
| 4/27/2015 10:46:23 | 46.26 | 41.86 | 1,082 | 1.74 | 0.28 | 59.2 |
| 4/27/2015 10:46:23 | 46.59 | 42.19 | 1,113 | 1.72 | 0.28 | 60.9 |
| 4/27/2015 10:46:24 | 46.92 | 42.52 | 1,113 | 1.72 | 0.28 | 60.9 |
| 4/27/2015 10:46:24 | 47.24 | 42.84 | 1,117 | 1.74 | 0.28 | 61.1 |
| 4/27/2015 10:46:24 | 47.57 | 43.17 | 1,145 | 1.74 | 0.28 | 62.6 |
| 4/27/2015 10:46:25 | 47.90 | 43.50 | 1,145 | 1.74 | 0.28 | 62.6 |
| 4/27/2015 10:46:25 | 48.23 | 43.83 | 1,146 | 1.75 | 0.28 | 62.7 |
| 4/27/2015 10:46:25 | 48.56 | 44.16 | 1,146 | 1.75 | 0.28 | 62.7 |
| 4/27/2015 10:46:39 | 48.88 | 44.48 | 69 | 1.78 | 1.39 | 3.8 |
| 4/27/2015 10:46:40 | 49.21 | 44.81 | 144 | 1.74 | 1.18 | 7.8 |
| 4/27/2015 10:46:41 | 49.54 | 45.14 | 252 | 1.75 | 1.22 | 13.8 |
| 4/27/2015 10:46:41 | 49.87 | 45.47 | 375 | 1.81 | 1.24 | 20.5 |
| 4/27/2015 10:46:42 | 50.20 | 45.80 | 436 | 1.81 | 1.18 | 23.8 |
| 4/27/2015 10:46:42 | 50.53 | 46.13 | 519 | 1.76 | 1.17 | 28.4 |
| 4/27/2015 10:47:25 | 50.85 | 46.45 | 6 | 1.73 | 1.32 | 0.3 |
| 4/27/2015 10:47:27 | 51.18 | 46.78 | 133 | 1.74 | 1.44 | 7.3 |
| 4/27/2015 10:47:33 | 51.51 | 47.11 | 43 | 1.76 | 1.07 | 2.4 |
| 4/27/2015 10:47:42 | 51.84 | 47.44 | 38 | 1.77 | 1.11 | 2.1 |
| 4/27/2015 10:47:51 | 52.17 | 47.77 | 40 | 1.76 | 1.06 | 2.2 |
| 4/27/2015 10:47:59 | 52.49 | 48.09 | 49 | 1.76 | 1.20 | 2.7 |
| 4/27/2015 10:48:07 | 52.82 | 48.42 | 52 | 1.79 | 1.17 | 2.8 |
| 4/27/2015 10:48:13 | 53.15 | 48.75 | 69 | 1.76 | 1.19 | 3.8 |
| 4/27/2015 10:48:14 | 53.22 | 48.82 | 80 | 1.79 | 1.29 | 4.4 |

## H1008 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:44:29

**End Date:**
4/27/2015 10:49:36

**Operator Note:**
'4.4 4.5 C Auto Complete'

**Northing:**
365,289.99

**Easting:**
249,441.47

**Tide (feet):**
4.40



## Hole: h1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 11:42:32 | 30.51 | 30.01 | 709 | 1.10 | 0.21 | 38.8 |
| 4/27/2015 11:42:33 | 30.84 | 30.34 | 703 | 1.11 | 0.21 | 38.5 |
| 4/27/2015 11:42:34 | 31.17 | 30.67 | 706 | 1.11 | 0.21 | 38.6 |
| 4/27/2015 11:42:34 | 31.50 | 31.00 | 696 | 1.11 | 0.21 | 38.1 |
| 4/27/2015 11:42:35 | 31.82 | 31.32 | 708 | 1.10 | 0.21 | 38.7 |
| 4/27/2015 11:42:35 | 32.15 | 31.65 | 697 | 1.11 | 0.21 | 38.1 |
| 4/27/2015 11:42:36 | 32.48 | 31.98 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:36 | 32.81 | 32.31 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 11:42:37 | 33.14 | 32.64 | 705 | 1.11 | 0.21 | 38.6 |
| 4/27/2015 11:42:37 | 33.46 | 32.96 | 698 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 11:42:38 | 33.79 | 33.29 | 698 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 11:42:38 | 34.12 | 33.62 | 705 | 1.11 | 0.21 | 38.6 |
| 4/27/2015 11:42:38 | 34.45 | 33.95 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 11:42:39 | 34.78 | 34.28 | 708 | 1.09 | 0.21 | 38.7 |
| 4/27/2015 11:42:39 | 35.11 | 34.61 | 705 | 1.11 | 0.21 | 38.6 |
| 4/27/2015 11:42:40 | 35.43 | 34.93 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 11:42:40 | 35.76 | 35.26 | 705 | 1.12 | 0.21 | 38.6 |
| 4/27/2015 11:42:41 | 36.09 | 35.59 | 705 | 1.10 | 0.21 | 38.6 |
| 4/27/2015 11:42:41 | 36.42 | 35.92 | 702 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:42 | 36.75 | 36.25 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:42 | 37.07 | 36.57 | 698 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 11:42:43 | 37.40 | 36.90 | 702 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:43 | 37.73 | 37.23 | 705 | 1.10 | 0.21 | 38.6 |
| 4/27/2015 11:42:44 | 38.06 | 37.56 | 705 | 1.10 | 0.21 | 38.6 |
| 4/27/2015 11:42:45 | 38.39 | 37.89 | 700 | 1.10 | 0.21 | 38.3 |
| 4/27/2015 11:42:45 | 38.71 | 38.21 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:46 | 39.04 | 38.54 | 708 | 1.10 | 0.21 | 38.7 |
| 4/27/2015 11:42:46 | 39.37 | 38.87 | 708 | 1.11 | 0.21 | 38.7 |
| 4/27/2015 11:42:47 | 39.70 | 39.20 | 701 | 1.12 | 0.21 | 38.4 |
| 4/27/2015 11:42:47 | 40.03 | 39.53 | 702 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:48 | 40.35 | 39.85 | 714 | 1.10 | 0.21 | 39.0 |
| 4/27/2015 11:42:48 | 40.68 | 40.18 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:49 | 41.01 | 40.51 | 696 | 1.11 | 0.21 | 38.1 |
| 4/27/2015 11:42:49 | 41.34 | 40.84 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:50 | 41.67 | 41.17 | 697 | 1.11 | 0.21 | 38.1 |
| 4/27/2015 11:42:50 | 41.99 | 41.49 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 11:42:51 | 42.32 | 41.82 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 11:42:51 | 42.65 | 42.15 | 703 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:52 | 42.98 | 42.48 | 703 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:52 | 43.31 | 42.81 | 703 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 11:42:53 | 43.64 | 43.14 | 696 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 11:42:53 | 43.96 | 43.46 | 704 | 1.10 | 0.21 | 38.5 |
| 4/27/2015 11:42:54 | 44.29 | 43.79 | 694 | 1.10 | 0.21 | 37.9 |
| 4/27/2015 11:42:55 | 44.62 | 44.12 | 701 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 11:42:55 | 44.95 | 44.45 | 697 | 1.21 | 0.21 | 38.1 |
| 4/27/2015 11:42:56 | 45.28 | 44.78 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 11:42:56 | 45.60 | 45.10 | 694 | 1.10 | 0.20 | 37.9 |
| 4/27/2015 11:42:57 | 45.93 | 45.43 | 697 | 1.11 | 0.21 | 38.1 |
| 4/27/2015 11:42:57 | 46.26 | 45.76 | 690 | 1.10 | 0.21 | 37.7 |
| 4/27/2015 11:42:58 | 46.59 | 46.09 | 694 | 1.10 | 0.18 | 37.9 |
| 4/27/2015 11:42:58 | 46.92 | 46.42 | 694 | 1.10 | 0.20 | 37.9 |
| 4/27/2015 11:42:59 | 47.24 | 46.74 | 694 | 1.11 | 0.21 | 37.9 |
| 4/27/2015 11:42:59 | 47.57 | 47.07 | 691 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 11:43:00 | 47.90 | 47.40 | 679 | 1.09 | 0.21 | 37.1 |
| 4/27/2015 11:43:00 | 48.23 | 47.73 | 679 | 1.13 | 0.20 | 37.1 |
| 4/27/2015 11:43:23 | 48.56 | 48.06 | 43 | 1.12 | 1.03 | 2.4 |
| 4/27/2015 11:43:25 | 48.88 | 48.38 | 154 | 1.12 | 1.21 | 8.4 |
| 4/27/2015 11:43:26 | 49.21 | 48.71 | 220 | 1.12 | 0.91 | 12.0 |
| 4/27/2015 11:43:27 | 49.54 | 49.04 | 232 | 1.13 | 1.27 | 12.7 |
| 4/27/2015 11:43:31 | 49.87 | 49.37 | 102 | 1.14 | 1.18 | 5.6 |
| 4/27/2015 11:43:32 | 50.20 | 49.70 | 228 | 1.13 | 1.00 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 11:43:34 | 50.53 | 50.03 | 228 | 1.11 | 1.01 | 12.5 |
| 4/27/2015 | 11:43:35 | 50.85 | 50.35 | 212 | 1.16 | 1.21 | 11.6 |
| 4/27/2015 | 11:43:37 | 51.18 | 50.68 | 204 | 1.15 | 1.36 | 11.1 |
| 4/27/2015 | 11:43:40 | 51.51 | 51.01 | 160 | 1.15 | 1.15 | 8.8 |
| 4/27/2015 | 11:43:49 | 51.84 | 51.34 | 0 | 1.17 | 1.57 | 0.0 |
| 4/27/2015 | 11:43:51 | 52.17 | 51.67 | 124 | 1.05 | 1.02 | 6.8 |
| 4/27/2015 | 11:43:52 | 52.49 | 51.99 | 206 | 1.00 | 1.13 | 11.3 |
| 4/27/2015 | 11:43:54 | 52.82 | 52.32 | 250 | 1.11 | 1.24 | 13.7 |
| 4/27/2015 | 11:43:55 | 53.15 | 52.65 | 218 | 1.19 | 1.21 | 11.9 |
| 4/27/2015 | 11:43:57 | 53.48 | 52.98 | 172 | 1.04 | 1.29 | 9.4 |
| 4/27/2015 | 11:43:58 | 53.81 | 53.31 | 223 | 1.10 | 1.21 | 12.2 |
| 4/27/2015 | 11:44:00 | 54.13 | 53.63 | 315 | 1.13 | 1.30 | 17.2 |
| 4/27/2015 | 11:44:01 | 54.46 | 53.96 | 230 | 1.05 | 1.05 | 12.6 |
| 4/27/2015 | 11:44:02 | 54.79 | 54.29 | 273 | 1.00 | 0.90 | 14.9 |
| 4/27/2015 | 11:44:03 | 55.12 | 54.62 | 307 | 1.15 | 0.92 | 16.8 |
| 4/27/2015 | 11:44:04 | 55.45 | 54.95 | 350 | 1.01 | 0.88 | 19.1 |
| 4/27/2015 | 11:44:05 | 55.77 | 55.27 | 322 | 1.07 | 0.98 | 17.6 |
| 4/27/2015 | 11:44:07 | 56.10 | 55.60 | 269 | 1.09 | 0.98 | 14.7 |
| 4/27/2015 | 11:44:11 | 56.43 | 55.93 | 91 | 1.12 | 1.23 | 5.0 |
| 4/27/2015 | 11:44:16 | 56.76 | 56.26 | 58 | 1.10 | 0.97 | 3.2 |
| 4/27/2015 | 11:44:26 | 57.09 | 56.59 | 34 | 1.05 | 0.94 | 1.9 |
| 4/27/2015 | 11:44:37 | 57.41 | 56.91 | 32 | 1.07 | 0.91 | 1.7 |
| 4/27/2015 | 11:44:43 | 57.68 | 57.18 | 66 | 1.13 | 1.00 | 3.6 |

## h1009 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 11:40:56

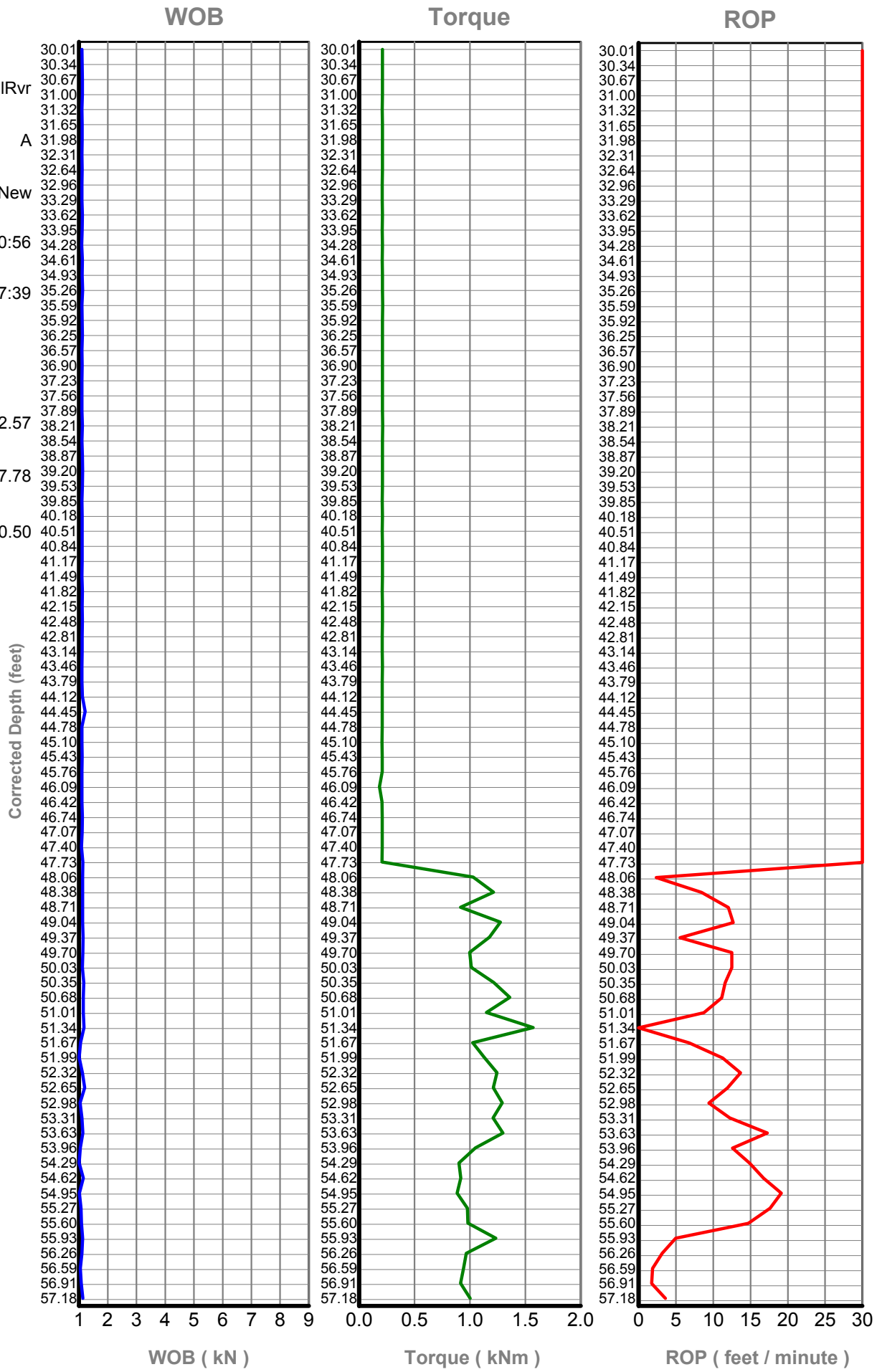
**End Date:**
4/27/2015 11:47:39

**Operator Note:**
3.5 a Auto Complete

**Northing:**
365,192.57

**Easting:**
249,327.78

**Tide (feet):**
0.50



## Hole: H101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:25:07 | 32.15 | 30.15 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/26/2015 12:25:07 | 32.48 | 30.48 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/26/2015 12:25:07 | 32.81 | 30.81 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/26/2015 12:25:08 | 33.14 | 31.14 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/26/2015 12:25:08 | 33.46 | 31.46 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:25:08 | 33.79 | 31.79 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 12:25:09 | 34.12 | 32.12 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 12:25:09 | 34.45 | 32.45 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:25:09 | 34.78 | 32.78 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 12:25:10 | 35.11 | 33.11 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 12:25:10 | 35.43 | 33.43 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:25:11 | 35.76 | 33.76 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:25:11 | 36.09 | 34.09 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:25:11 | 36.42 | 34.42 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 12:25:12 | 36.75 | 34.75 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:25:12 | 37.07 | 35.07 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:25:12 | 37.40 | 35.40 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 12:25:13 | 37.73 | 35.73 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 12:25:13 | 38.06 | 36.06 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 12:25:13 | 38.39 | 36.39 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 12:25:14 | 38.71 | 36.71 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 12:25:14 | 39.04 | 37.04 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 12:25:14 | 39.37 | 37.37 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 12:25:15 | 39.70 | 37.70 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 12:25:15 | 40.03 | 38.03 | 1,036 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 12:25:15 | 40.35 | 38.35 | 1,045 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:25:16 | 40.68 | 38.68 | 1,045 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:25:16 | 41.01 | 39.01 | 1,060 | 0.31 | 0.31 | 58.0 |
| 4/26/2015 12:25:16 | 41.34 | 39.34 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:25:17 | 41.67 | 39.67 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:25:17 | 41.99 | 39.99 | 1,037 | 0.39 | 0.32 | 56.7 |
| 4/26/2015 12:25:17 | 42.32 | 40.32 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:25:18 | 42.65 | 40.65 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:25:18 | 42.98 | 40.98 | 1,016 | 0.29 | 0.31 | 55.6 |
| 4/26/2015 12:25:18 | 43.31 | 41.31 | 1,016 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 12:25:19 | 43.64 | 41.64 | 1,016 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 12:25:19 | 43.96 | 41.96 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 12:25:19 | 44.29 | 42.29 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:25:20 | 44.62 | 42.62 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:25:20 | 44.95 | 42.95 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 12:25:21 | 45.28 | 43.28 | 1,023 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:25:21 | 45.60 | 43.60 | 1,023 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:25:21 | 45.93 | 43.93 | 1,011 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 12:25:22 | 46.26 | 44.26 | 1,036 | 0.31 | 0.34 | 56.6 |
| 4/26/2015 12:25:27 | 46.59 | 44.59 | 0 | 4.19 | 0.35 | 0.0 |
| 4/26/2015 12:25:29 | 46.92 | 44.92 | 81 | 3.80 | 0.40 | 4.4 |
| 4/26/2015 12:25:35 | 47.24 | 45.24 | 100 | 3.81 | 0.39 | 5.5 |
| 4/26/2015 12:25:38 | 47.57 | 45.57 | 113 | 3.69 | 0.38 | 6.2 |
| 4/26/2015 12:25:42 | 47.90 | 45.90 | 92 | 3.40 | 0.40 | 5.1 |
| 4/26/2015 12:25:49 | 48.23 | 46.23 | 46 | 3.99 | 0.40 | 2.5 |
| 4/26/2015 12:25:58 | 48.56 | 46.56 | 41 | 3.33 | 0.39 | 2.3 |
| 4/26/2015 12:26:05 | 48.88 | 46.88 | 57 | 3.86 | 0.39 | 3.1 |
| 4/26/2015 12:26:07 | 49.05 | 47.05 | 92 | 3.20 | 0.40 | 5.1 |

## H101 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:23:13

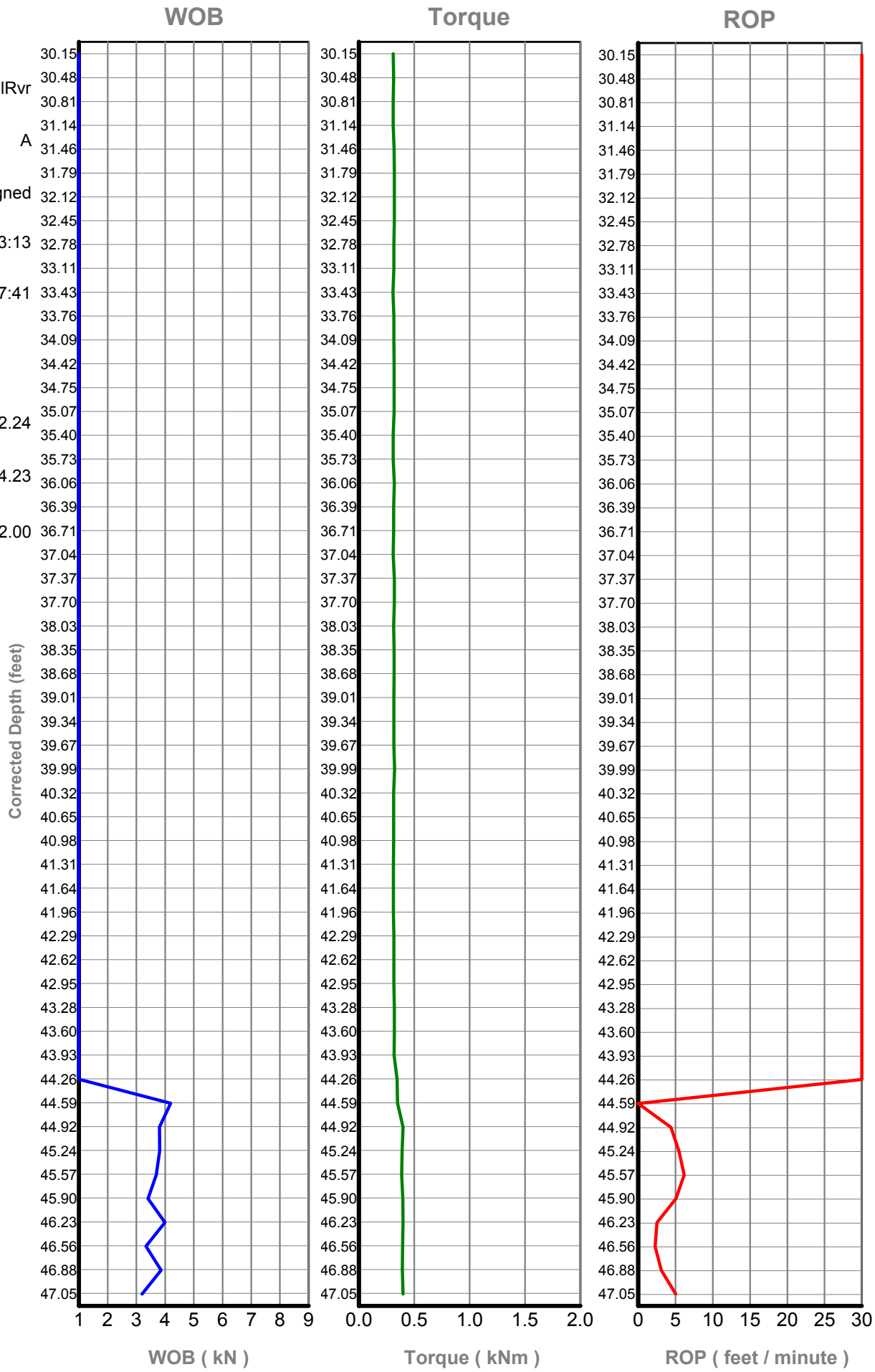
**End Date:**
4/26/2015 12:27:41

**Operator Note:**
'2 2.2 b Auto Complete'

**Northing:**
366,232.24

**Easting:**
250,024.23

**Tide (feet):**
2.00



## Hole: H1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 11:42:35 | 33.46 | 30.16 | 1,111 | 0.27 | 0.32 | 60.8 |
| 4/27/2015 11:42:35 | 33.79 | 30.49 | 1,111 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 11:42:36 | 34.12 | 30.82 | 1,111 | 0.27 | 0.32 | 60.8 |
| 4/27/2015 11:42:36 | 34.45 | 31.15 | 1,111 | 0.27 | 0.32 | 60.8 |
| 4/27/2015 11:42:36 | 34.78 | 31.48 | 1,129 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 11:42:37 | 35.11 | 31.81 | 1,129 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 11:42:37 | 35.43 | 32.13 | 1,120 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 11:42:37 | 35.76 | 32.46 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 11:42:38 | 36.09 | 32.79 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 11:42:38 | 36.42 | 33.12 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 11:42:38 | 36.75 | 33.45 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 11:42:38 | 37.07 | 33.77 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 11:42:39 | 37.40 | 34.10 | 1,106 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 11:42:40 | 37.73 | 34.43 | 1,106 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 11:42:40 | 38.06 | 34.76 | 1,094 | 0.28 | 0.33 | 59.8 |
| 4/27/2015 11:42:40 | 38.39 | 35.09 | 1,094 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 11:42:40 | 38.71 | 35.41 | 1,094 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 11:42:41 | 39.04 | 35.74 | 1,094 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 11:42:41 | 39.37 | 36.07 | 1,094 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 11:42:41 | 39.70 | 36.40 | 1,107 | 0.26 | 0.31 | 60.5 |
| 4/27/2015 11:42:42 | 40.03 | 36.73 | 1,092 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 11:42:42 | 40.35 | 37.05 | 1,092 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 11:42:42 | 40.68 | 37.38 | 1,095 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 11:42:43 | 41.01 | 37.71 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 11:42:43 | 41.34 | 38.04 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 11:42:43 | 41.67 | 38.37 | 1,104 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 11:42:44 | 41.99 | 38.69 | 1,104 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 11:42:44 | 42.32 | 39.02 | 1,104 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 11:42:44 | 42.65 | 39.35 | 1,109 | 0.28 | 0.32 | 60.6 |
| 4/27/2015 11:42:45 | 42.98 | 39.68 | 1,109 | 0.28 | 0.32 | 60.6 |
| 4/27/2015 11:42:45 | 43.31 | 40.01 | 1,118 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 11:42:45 | 43.64 | 40.34 | 1,118 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 11:42:45 | 43.96 | 40.66 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/27/2015 11:42:46 | 44.29 | 40.99 | 1,076 | 0.28 | 0.31 | 58.8 |
| 4/27/2015 11:42:46 | 44.62 | 41.32 | 1,076 | 0.28 | 0.31 | 58.8 |
| 4/27/2015 11:42:46 | 44.95 | 41.65 | 1,103 | 0.27 | 0.32 | 60.3 |
| 4/27/2015 11:42:47 | 45.28 | 41.98 | 1,103 | 0.29 | 0.31 | 60.3 |
| 4/27/2015 11:42:47 | 45.60 | 42.30 | 1,103 | 0.29 | 0.31 | 60.3 |
| 4/27/2015 11:42:47 | 45.93 | 42.63 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 11:42:48 | 46.26 | 42.96 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 11:42:48 | 46.59 | 43.29 | 1,106 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 11:42:48 | 46.92 | 43.62 | 1,118 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 11:42:49 | 47.24 | 43.94 | 1,118 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 11:42:49 | 47.57 | 44.27 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 11:42:50 | 47.90 | 44.60 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 11:42:49 | 48.23 | 44.93 | 1,095 | 0.26 | 0.33 | 59.9 |
| 4/27/2015 11:42:50 | 48.56 | 45.26 | 1,095 | 0.25 | 0.39 | 59.9 |
| 4/27/2015 11:43:05 | 48.88 | 45.58 | 23 | 4.72 | 0.40 | 1.2 |
| 4/27/2015 11:43:06 | 49.21 | 45.91 | 111 | 5.01 | 0.40 | 6.1 |
| 4/27/2015 11:43:14 | 49.54 | 46.24 | 28 | 7.99 | 0.40 | 1.5 |
| 4/27/2015 11:43:18 | 49.87 | 46.57 | 35 | 3.76 | 0.40 | 1.9 |
| 4/27/2015 11:43:23 | 50.20 | 46.90 | 0 | 2.87 | 0.37 | 0.0 |
| 4/27/2015 11:43:24 | 50.53 | 47.23 | 116 | 4.85 | 0.39 | 6.4 |
| 4/27/2015 11:43:25 | 50.85 | 47.55 | 245 | 3.14 | 0.38 | 13.4 |
| 4/27/2015 11:43:26 | 51.18 | 47.88 | 306 | 3.23 | 0.39 | 16.7 |
| 4/27/2015 11:43:31 | 51.51 | 48.21 | 47 | 3.52 | 0.40 | 2.6 |
| 4/27/2015 11:43:36 | 51.84 | 48.54 | 16 | 2.63 | 0.37 | 0.9 |
| 4/27/2015 11:43:39 | 52.17 | 48.87 | 33 | 3.01 | 0.38 | 1.8 |
| 4/27/2015 11:43:57 | 52.49 | 49.19 | 9 | 6.27 | 0.39 | 0.5 |
| 4/27/2015 11:43:58 | 52.82 | 49.52 | 123 | 2.79 | 0.39 | 6.7 |
| 4/27/2015 11:45:13 | 53.15 | 49.85 | 20 | 3.69 | 0.41 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 11:45:18 | 53.48 | 50.18 | 95 | 3.33 | 0.40 | 5.2 |
| 4/27/2015 | 11:47:46 | 53.81 | 50.51 | 55 | 3.25 | 0.40 | 3.0 |
| 4/27/2015 | 11:47:49 | 54.13 | 50.83 | 124 | 3.24 | 0.41 | 6.8 |
| 4/27/2015 | 11:48:03 | 54.46 | 51.16 | 43 | 2.69 | 0.41 | 2.4 |
| 4/27/2015 | 11:48:11 | 54.79 | 51.49 | 40 | 3.31 | 0.41 | 2.2 |
| 4/27/2015 | 11:48:20 | 55.12 | 51.82 | 37 | 2.86 | 0.41 | 2.0 |
| 4/27/2015 | 11:48:22 | 55.21 | 51.91 | 44 | 3.03 | 0.40 | 2.4 |

## H1010 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 11:41:13

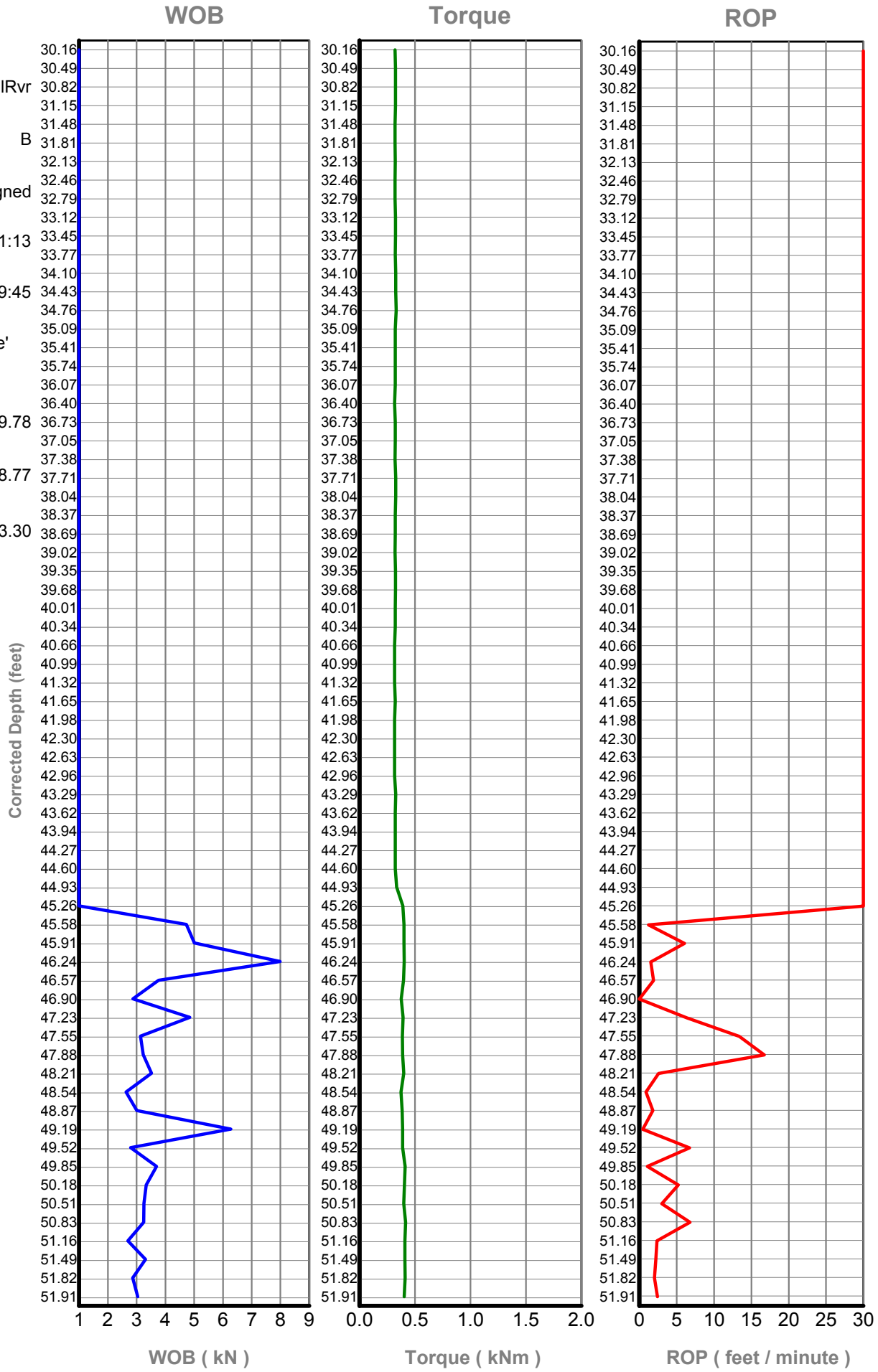
**End Date:**
4/27/2015 11:49:45

**Operator Note:**
'3.3 3.5 b Auto Complete'

**Northing:**
365,179.78

**Easting:**
249,428.77

**Tide (feet):**
3.30



## Hole: H1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 11:42:42 | 33.46 | 30.16 | 1,130 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 11:42:43 | 33.79 | 30.49 | 1,130 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 11:42:43 | 34.12 | 30.82 | 1,127 | 1.74 | 0.29 | 61.6 |
| 4/27/2015 11:42:43 | 34.45 | 31.15 | 1,127 | 1.74 | 0.29 | 61.6 |
| 4/27/2015 11:42:43 | 34.78 | 31.48 | 1,133 | 1.74 | 0.28 | 62.0 |
| 4/27/2015 11:42:44 | 35.11 | 31.81 | 1,130 | 1.73 | 0.28 | 61.8 |
| 4/27/2015 11:42:44 | 35.43 | 32.13 | 1,130 | 1.73 | 0.28 | 61.8 |
| 4/27/2015 11:42:44 | 35.76 | 32.46 | 1,100 | 1.71 | 0.28 | 60.2 |
| 4/27/2015 11:42:45 | 36.09 | 32.79 | 1,100 | 1.74 | 0.28 | 60.2 |
| 4/27/2015 11:42:45 | 36.42 | 33.12 | 1,100 | 1.74 | 0.28 | 60.2 |
| 4/27/2015 11:42:45 | 36.75 | 33.45 | 1,121 | 1.74 | 0.28 | 61.3 |
| 4/27/2015 11:42:46 | 37.07 | 33.77 | 1,121 | 1.74 | 0.28 | 61.3 |
| 4/27/2015 11:42:46 | 37.40 | 34.10 | 1,124 | 1.72 | 0.29 | 61.5 |
| 4/27/2015 11:42:46 | 37.73 | 34.43 | 1,118 | 1.74 | 0.29 | 61.1 |
| 4/27/2015 11:42:47 | 38.06 | 34.76 | 1,118 | 1.74 | 0.29 | 61.1 |
| 4/27/2015 11:42:47 | 38.39 | 35.09 | 1,121 | 1.70 | 0.29 | 61.3 |
| 4/27/2015 11:42:47 | 38.71 | 35.41 | 1,121 | 1.70 | 0.29 | 61.3 |
| 4/27/2015 11:42:47 | 39.04 | 35.74 | 1,154 | 1.71 | 0.29 | 63.1 |
| 4/27/2015 11:42:48 | 39.37 | 36.07 | 1,136 | 1.72 | 0.30 | 62.1 |
| 4/27/2015 11:42:48 | 39.70 | 36.40 | 1,136 | 1.72 | 0.30 | 62.1 |
| 4/27/2015 11:42:48 | 40.03 | 36.73 | 1,136 | 1.71 | 0.29 | 62.1 |
| 4/27/2015 11:42:49 | 40.35 | 37.05 | 1,136 | 1.71 | 0.29 | 62.1 |
| 4/27/2015 11:42:49 | 40.68 | 37.38 | 1,136 | 1.71 | 0.29 | 62.1 |
| 4/27/2015 11:42:49 | 41.01 | 37.71 | 1,136 | 1.74 | 0.29 | 62.1 |
| 4/27/2015 11:42:50 | 41.34 | 38.04 | 1,136 | 1.74 | 0.29 | 62.1 |
| 4/27/2015 11:42:50 | 41.67 | 38.37 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 11:42:50 | 41.99 | 38.69 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 11:42:50 | 42.32 | 39.02 | 1,130 | 1.72 | 0.29 | 61.8 |
| 4/27/2015 11:42:51 | 42.65 | 39.35 | 1,123 | 1.72 | 0.29 | 61.4 |
| 4/27/2015 11:42:52 | 42.98 | 39.68 | 1,123 | 1.72 | 0.29 | 61.4 |
| 4/27/2015 11:42:52 | 43.31 | 40.01 | 1,133 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 11:42:52 | 43.64 | 40.34 | 1,133 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 11:42:52 | 43.96 | 40.66 | 1,112 | 1.74 | 0.28 | 60.8 |
| 4/27/2015 11:42:53 | 44.29 | 40.99 | 1,112 | 1.74 | 0.29 | 60.8 |
| 4/27/2015 11:42:53 | 44.62 | 41.32 | 1,112 | 1.74 | 0.29 | 60.8 |
| 4/27/2015 11:42:53 | 44.95 | 41.65 | 1,115 | 1.73 | 0.29 | 61.0 |
| 4/27/2015 11:42:54 | 45.28 | 41.98 | 1,115 | 1.73 | 0.29 | 61.0 |
| 4/27/2015 11:42:54 | 45.60 | 42.30 | 1,127 | 1.72 | 0.28 | 61.7 |
| 4/27/2015 11:42:54 | 45.93 | 42.63 | 1,128 | 1.73 | 0.28 | 61.7 |
| 4/27/2015 11:42:55 | 46.26 | 42.96 | 1,128 | 1.73 | 0.28 | 61.7 |
| 4/27/2015 11:42:55 | 46.59 | 43.29 | 1,082 | 1.74 | 0.28 | 59.2 |
| 4/27/2015 11:42:55 | 46.92 | 43.62 | 1,082 | 1.72 | 0.28 | 59.2 |
| 4/27/2015 11:42:56 | 47.24 | 43.94 | 1,082 | 1.72 | 0.28 | 59.2 |
| 4/27/2015 11:42:56 | 47.57 | 44.27 | 1,127 | 1.72 | 0.28 | 61.6 |
| 4/27/2015 11:43:21 | 47.90 | 44.60 | 34 | 1.85 | 1.28 | 1.9 |
| 4/27/2015 11:43:21 | 48.23 | 44.93 | 76 | 1.77 | 1.13 | 4.2 |
| 4/27/2015 11:43:22 | 48.56 | 45.26 | 211 | 1.76 | 1.31 | 11.5 |
| 4/27/2015 11:43:23 | 48.88 | 45.58 | 327 | 1.77 | 1.13 | 17.9 |
| 4/27/2015 11:43:23 | 49.21 | 45.91 | 459 | 1.77 | 1.18 | 25.1 |
| 4/27/2015 11:43:24 | 49.54 | 46.24 | 569 | 1.76 | 1.17 | 31.1 |
| 4/27/2015 11:43:38 | 49.87 | 46.57 | 0 | 1.72 | 1.31 | 0.0 |
| 4/27/2015 11:43:39 | 50.20 | 46.90 | 45 | 1.82 | 1.15 | 2.5 |
| 4/27/2015 11:43:39 | 50.53 | 47.23 | 171 | 1.81 | 1.10 | 9.4 |
| 4/27/2015 11:44:10 | 50.85 | 47.55 | 47 | 1.74 | 1.13 | 2.6 |
| 4/27/2015 11:44:11 | 51.18 | 47.88 | 159 | 1.75 | 1.17 | 8.7 |
| 4/27/2015 11:44:11 | 51.51 | 48.21 | 159 | 1.79 | 1.18 | 8.7 |
| 4/27/2015 11:44:12 | 51.84 | 48.54 | 305 | 1.76 | 1.01 | 16.7 |
| 4/27/2015 11:44:36 | 52.17 | 48.87 | 0 | 1.85 | 1.01 | 0.0 |
| 4/27/2015 11:44:37 | 52.49 | 49.19 | 109 | 1.76 | 1.22 | 5.9 |
| 4/27/2015 11:44:37 | 52.82 | 49.52 | 241 | 1.77 | 1.15 | 13.2 |
| 4/27/2015 11:45:08 | 53.15 | 49.85 | 0 | 1.78 | 1.18 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 11:45:09 | 53.48 | 50.18 | 115 | 1.78 | 1.08 | 6.3 |
| 4/27/2015 | 11:45:09 | 53.81 | 50.51 | 249 | 1.79 | 1.18 | 13.6 |
| 4/27/2015 | 11:45:40 | 54.13 | 50.83 | 85 | 1.76 | 1.17 | 4.7 |
| 4/27/2015 | 11:45:40 | 54.46 | 51.16 | 216 | 1.75 | 1.08 | 11.8 |
| 4/27/2015 | 11:45:41 | 54.79 | 51.49 | 347 | 1.73 | 1.08 | 19.0 |
| 4/27/2015 | 11:45:41 | 55.12 | 51.82 | 473 | 1.72 | 1.16 | 25.9 |
| 4/27/2015 | 11:45:42 | 55.45 | 52.15 | 576 | 1.79 | 1.13 | 31.5 |
| 4/27/2015 | 11:45:43 | 55.77 | 52.47 | 528 | 1.71 | 1.11 | 28.8 |
| 4/27/2015 | 11:45:44 | 56.10 | 52.80 | 473 | 1.76 | 1.27 | 25.8 |
| 4/27/2015 | 11:45:47 | 56.43 | 53.13 | 137 | 1.77 | 1.22 | 7.5 |
| 4/27/2015 | 11:46:33 | 56.76 | 53.46 | 78 | 1.75 | 1.17 | 4.3 |
| 4/27/2015 | 11:46:40 | 57.09 | 53.79 | 55 | 1.75 | 1.20 | 3.0 |
| 4/27/2015 | 11:46:44 | 57.41 | 54.11 | 70 | 1.72 | 1.33 | 3.8 |
| 4/27/2015 | 11:46:47 | 57.74 | 54.44 | 124 | 1.83 | 1.29 | 6.8 |
| 4/27/2015 | 11:46:51 | 58.07 | 54.77 | 113 | 1.79 | 1.24 | 6.2 |
| 4/27/2015 | 11:46:53 | 58.40 | 55.10 | 141 | 1.76 | 1.30 | 7.7 |
| 4/27/2015 | 11:46:55 | 58.66 | 55.36 | 164 | 1.73 | 1.32 | 9.0 |

## H1011 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 11:41:32

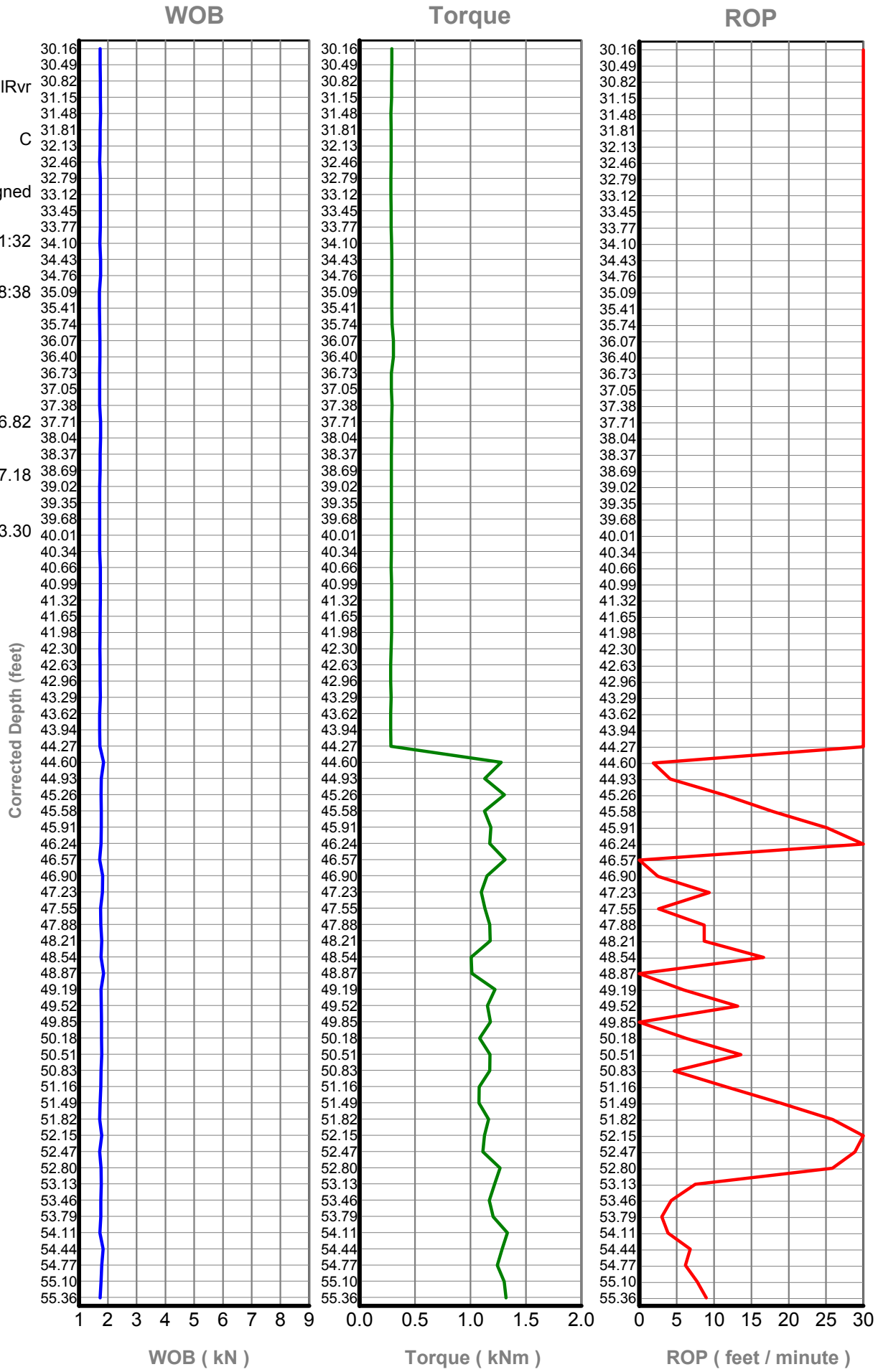
**End Date:**
4/27/2015 11:48:38

**Operator Note:**
'3.3 3.5 X Auto Complete'

**Northing:**
365,226.82

**Easting:**
249,487.18

**Tide (feet):**
3.30



## Hole: h1015 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:04:16 | 30.51 | 30.21 | 731 | 1.10 | 0.20 | 40.0 |
| 4/27/2015 12:04:16 | 30.84 | 30.54 | 731 | 1.10 | 0.20 | 40.0 |
| 4/27/2015 12:04:17 | 31.17 | 30.87 | 728 | 1.11 | 0.20 | 39.8 |
| 4/27/2015 12:04:17 | 31.50 | 31.20 | 730 | 1.10 | 0.20 | 39.9 |
| 4/27/2015 12:04:18 | 31.82 | 31.52 | 723 | 1.10 | 0.20 | 39.5 |
| 4/27/2015 12:04:18 | 32.15 | 31.85 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 12:04:19 | 32.48 | 32.18 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 12:04:19 | 32.81 | 32.51 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:04:20 | 33.14 | 32.84 | 715 | 1.10 | 0.20 | 39.1 |
| 4/27/2015 12:04:20 | 33.46 | 33.16 | 720 | 1.11 | 0.20 | 39.4 |
| 4/27/2015 12:04:21 | 33.79 | 33.49 | 721 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 12:04:21 | 34.12 | 33.82 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:04:22 | 34.45 | 34.15 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 12:04:22 | 34.78 | 34.48 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 12:04:23 | 35.11 | 34.81 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 12:04:23 | 35.43 | 35.13 | 728 | 1.08 | 0.21 | 39.8 |
| 4/27/2015 12:04:24 | 35.76 | 35.46 | 728 | 1.08 | 0.21 | 39.8 |
| 4/27/2015 12:04:24 | 36.09 | 35.79 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:04:24 | 36.42 | 36.12 | 726 | 1.10 | 0.20 | 39.7 |
| 4/27/2015 12:04:25 | 36.75 | 36.45 | 726 | 1.10 | 0.20 | 39.7 |
| 4/27/2015 12:04:26 | 37.07 | 36.77 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 12:04:26 | 37.40 | 37.10 | 726 | 1.10 | 0.20 | 39.7 |
| 4/27/2015 12:04:27 | 37.73 | 37.43 | 723 | 1.10 | 0.20 | 39.5 |
| 4/27/2015 12:04:27 | 38.06 | 37.76 | 728 | 1.11 | 0.12 | 39.8 |
| 4/27/2015 12:04:28 | 38.39 | 38.09 | 734 | 1.10 | 0.20 | 40.1 |
| 4/27/2015 12:04:28 | 38.71 | 38.41 | 737 | 1.07 | 0.20 | 40.3 |
| 4/27/2015 12:04:29 | 39.04 | 38.74 | 734 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 12:04:29 | 39.37 | 39.07 | 733 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 12:04:30 | 39.70 | 39.40 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 12:04:30 | 40.03 | 39.73 | 734 | 1.08 | 0.20 | 40.2 |
| 4/27/2015 12:04:31 | 40.35 | 40.05 | 731 | 1.10 | 0.20 | 40.0 |
| 4/27/2015 12:04:31 | 40.68 | 40.38 | 731 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 12:04:32 | 41.01 | 40.71 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:04:32 | 41.34 | 41.04 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 12:04:33 | 41.67 | 41.37 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 12:04:33 | 41.99 | 41.69 | 720 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 12:04:33 | 42.32 | 42.02 | 716 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 12:04:34 | 42.65 | 42.35 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 12:04:35 | 42.98 | 42.68 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 12:04:35 | 43.31 | 43.01 | 710 | 1.09 | 0.20 | 38.8 |
| 4/27/2015 12:04:36 | 43.64 | 43.34 | 710 | 1.09 | 0.20 | 38.8 |
| 4/27/2015 12:04:36 | 43.96 | 43.66 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 12:04:37 | 44.29 | 43.99 | 721 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:04:37 | 44.62 | 44.32 | 719 | 1.11 | 0.20 | 39.3 |
| 4/27/2015 12:04:38 | 44.95 | 44.65 | 712 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 12:04:38 | 45.28 | 44.98 | 727 | 1.11 | 0.20 | 39.8 |
| 4/27/2015 12:04:39 | 45.60 | 45.30 | 724 | 1.10 | 0.20 | 39.6 |
| 4/27/2015 12:04:39 | 45.93 | 45.63 | 717 | 1.08 | 0.20 | 39.2 |
| 4/27/2015 12:04:40 | 46.26 | 45.96 | 710 | 1.08 | 0.20 | 38.8 |
| 4/27/2015 12:04:40 | 46.59 | 46.29 | 716 | 1.11 | 0.20 | 39.1 |
| 4/27/2015 12:04:41 | 46.92 | 46.62 | 717 | 1.08 | 0.20 | 39.2 |
| 4/27/2015 12:04:41 | 47.24 | 46.94 | 714 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 12:04:42 | 47.57 | 47.27 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 12:04:42 | 47.90 | 47.60 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:04:43 | 48.23 | 47.93 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 12:04:43 | 48.56 | 48.26 | 714 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 12:04:44 | 48.88 | 48.58 | 714 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 12:04:44 | 49.21 | 48.91 | 713 | 1.11 | 0.20 | 39.0 |
| 4/27/2015 12:04:45 | 49.54 | 49.24 | 677 | 1.12 | 0.20 | 37.0 |
| 4/27/2015 12:04:45 | 49.87 | 49.57 | 638 | 1.13 | 0.19 | 34.9 |
| 4/27/2015 12:04:47 | 50.20 | 49.90 | 541 | 1.13 | 0.20 | 29.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:04:47 | 50.53 | 50.23 | 482 | 1.14 | 0.20 | 26.4 |
| 4/27/2015 | 12:05:03 | 50.85 | 50.55 | 0 | 1.11 | 0.90 | 0.0 |
| 4/27/2015 | 12:05:04 | 51.18 | 50.88 | 83 | 1.11 | 0.87 | 4.5 |
| 4/27/2015 | 12:05:05 | 51.51 | 51.21 | 274 | 1.14 | 0.97 | 15.0 |
| 4/27/2015 | 12:05:07 | 51.84 | 51.54 | 221 | 1.11 | 0.96 | 12.1 |
| 4/27/2015 | 12:05:08 | 52.17 | 51.87 | 260 | 1.11 | 0.93 | 14.2 |
| 4/27/2015 | 12:05:08 | 52.49 | 52.19 | 315 | 1.11 | 0.87 | 17.2 |
| 4/27/2015 | 12:05:09 | 52.82 | 52.52 | 466 | 1.11 | 0.91 | 25.5 |
| 4/27/2015 | 12:05:12 | 53.15 | 52.85 | 102 | 1.15 | 1.41 | 5.6 |
| 4/27/2015 | 12:05:15 | 53.48 | 53.18 | 95 | 1.09 | 1.44 | 5.2 |
| 4/27/2015 | 12:05:20 | 53.81 | 53.51 | 79 | 1.14 | 1.03 | 4.3 |
| 4/27/2015 | 12:05:21 | 54.13 | 53.83 | 174 | 1.15 | 1.16 | 9.5 |
| 4/27/2015 | 12:05:22 | 54.46 | 54.16 | 239 | 1.07 | 1.04 | 13.1 |
| 4/27/2015 | 12:05:24 | 54.79 | 54.49 | 220 | 1.02 | 1.50 | 12.0 |
| 4/27/2015 | 12:05:25 | 55.12 | 54.82 | 287 | 0.96 | 1.14 | 15.7 |
| 4/27/2015 | 12:05:26 | 55.45 | 55.15 | 299 | 1.11 | 1.09 | 16.3 |
| 4/27/2015 | 12:05:27 | 55.77 | 55.47 | 347 | 1.12 | 1.02 | 19.0 |
| 4/27/2015 | 12:05:28 | 56.10 | 55.80 | 356 | 1.07 | 0.96 | 19.5 |
| 4/27/2015 | 12:05:29 | 56.43 | 56.13 | 419 | 1.05 | 1.02 | 22.9 |
| 4/27/2015 | 12:05:30 | 56.76 | 56.46 | 422 | 0.90 | 0.97 | 23.1 |
| 4/27/2015 | 12:05:31 | 57.09 | 56.79 | 352 | 1.03 | 0.87 | 19.2 |
| 4/27/2015 | 12:05:31 | 57.41 | 57.11 | 369 | 1.01 | 0.90 | 20.2 |
| 4/27/2015 | 12:05:32 | 57.74 | 57.44 | 372 | 1.18 | 0.90 | 20.3 |
| 4/27/2015 | 12:05:33 | 58.07 | 57.77 | 442 | 1.01 | 0.83 | 24.2 |
| 4/27/2015 | 12:05:35 | 58.40 | 58.10 | 204 | 1.12 | 0.99 | 11.2 |
| 4/27/2015 | 12:05:36 | 58.66 | 58.36 | 213 | 0.48 | 0.98 | 11.6 |

## h1015 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 12:02:00

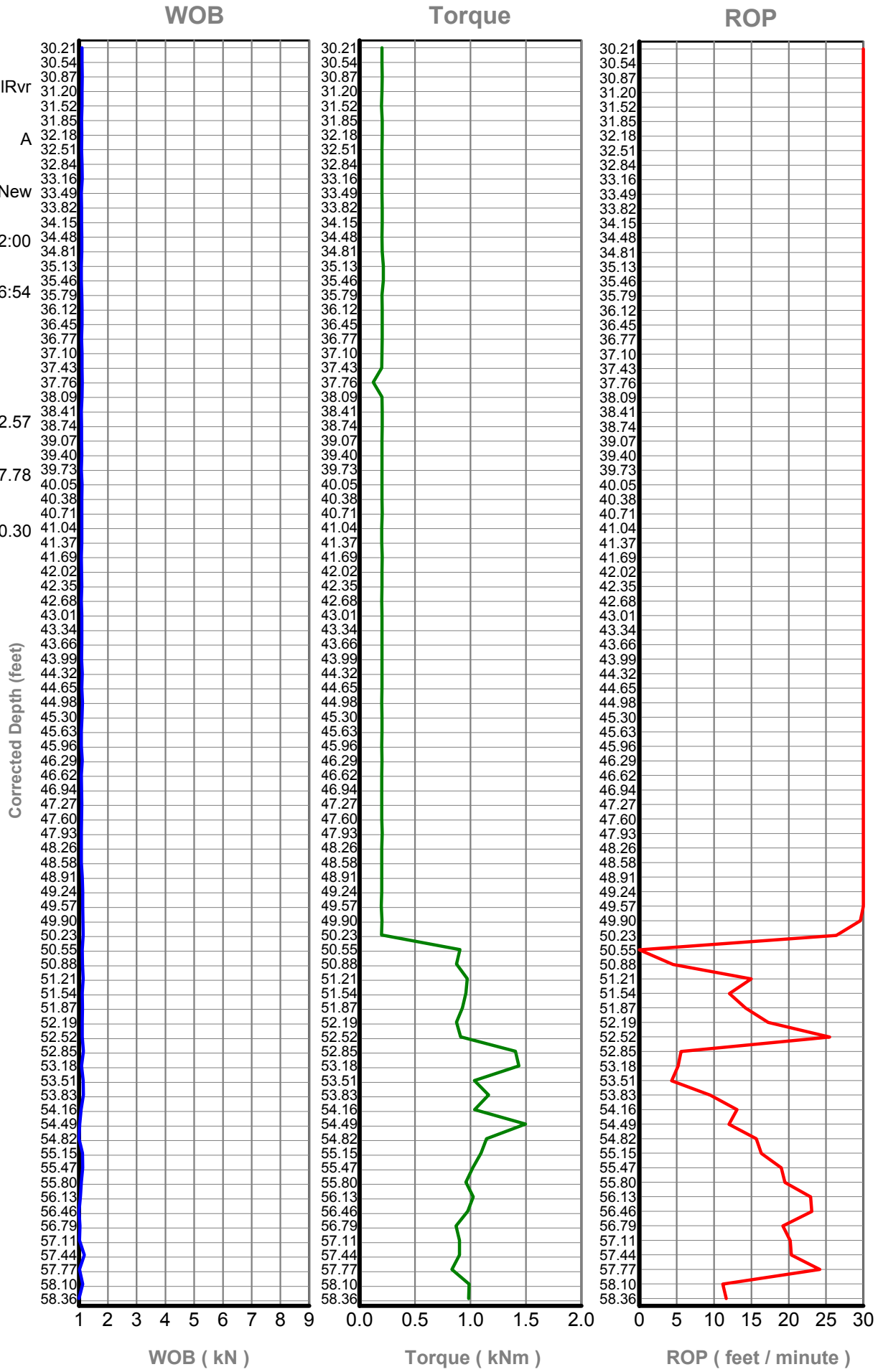
**End Date:**
4/27/2015 12:06:54

**Operator Note:**
3.3 a Auto Complete

**Northing:**
365,192.57

**Easting:**
249,327.78

**Tide (feet):**
0.30



## Hole: H1016 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:03:38 | 33.14 | 30.14 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 12:03:38 | 33.46 | 30.46 | 1,117 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 12:03:39 | 33.79 | 30.79 | 1,117 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 12:03:39 | 34.12 | 31.12 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 12:03:39 | 34.45 | 31.45 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 12:03:40 | 34.78 | 31.78 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 12:03:40 | 35.11 | 32.11 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 12:03:41 | 35.43 | 32.43 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 12:03:41 | 35.76 | 32.76 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/27/2015 12:03:41 | 36.09 | 33.09 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 12:03:42 | 36.42 | 33.42 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 12:03:42 | 36.75 | 33.75 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 12:03:42 | 37.07 | 34.07 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 12:03:42 | 37.40 | 34.40 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 12:03:43 | 37.73 | 34.73 | 1,105 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 12:03:43 | 38.06 | 35.06 | 1,105 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 12:03:43 | 38.39 | 35.39 | 1,111 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 12:03:44 | 38.71 | 35.71 | 1,111 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 12:03:44 | 39.04 | 36.04 | 1,129 | 0.28 | 0.31 | 61.7 |
| 4/27/2015 12:03:44 | 39.37 | 36.37 | 1,129 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 12:03:45 | 39.70 | 36.70 | 1,129 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 12:03:45 | 40.03 | 37.03 | 1,105 | 0.32 | 0.32 | 60.4 |
| 4/27/2015 12:03:45 | 40.35 | 37.35 | 1,105 | 0.33 | 0.32 | 60.4 |
| 4/27/2015 12:03:46 | 40.68 | 37.68 | 1,105 | 0.33 | 0.32 | 60.4 |
| 4/27/2015 12:03:46 | 41.01 | 38.01 | 1,115 | 0.35 | 0.32 | 61.0 |
| 4/27/2015 12:03:46 | 41.34 | 38.34 | 1,115 | 0.35 | 0.32 | 61.0 |
| 4/27/2015 12:03:46 | 41.67 | 38.67 | 1,092 | 0.35 | 0.32 | 59.7 |
| 4/27/2015 12:03:47 | 41.99 | 38.99 | 1,056 | 0.35 | 0.32 | 57.8 |
| 4/27/2015 12:03:47 | 42.32 | 39.32 | 1,056 | 0.35 | 0.32 | 57.8 |
| 4/27/2015 12:03:47 | 42.65 | 39.65 | 1,056 | 0.35 | 0.32 | 57.8 |
| 4/27/2015 12:03:48 | 42.98 | 39.98 | 1,065 | 0.36 | 0.31 | 58.2 |
| 4/27/2015 12:03:49 | 43.31 | 40.31 | 1,065 | 0.36 | 0.31 | 58.2 |
| 4/27/2015 12:03:48 | 43.64 | 40.64 | 1,060 | 0.36 | 0.32 | 58.0 |
| 4/27/2015 12:03:49 | 43.96 | 40.96 | 1,051 | 0.37 | 0.33 | 57.5 |
| 4/27/2015 12:03:49 | 44.29 | 41.29 | 1,051 | 0.37 | 0.33 | 57.5 |
| 4/27/2015 12:03:49 | 44.62 | 41.62 | 1,051 | 0.37 | 0.33 | 57.5 |
| 4/27/2015 12:03:50 | 44.95 | 41.95 | 1,051 | 0.37 | 0.33 | 57.5 |
| 4/27/2015 12:03:50 | 45.28 | 42.28 | 1,048 | 0.37 | 0.34 | 57.3 |
| 4/27/2015 12:03:51 | 45.60 | 42.60 | 1,085 | 0.37 | 0.33 | 59.3 |
| 4/27/2015 12:03:51 | 45.93 | 42.93 | 1,085 | 0.37 | 0.33 | 59.3 |
| 4/27/2015 12:03:51 | 46.26 | 43.26 | 1,047 | 0.37 | 0.33 | 57.2 |
| 4/27/2015 12:03:52 | 46.59 | 43.59 | 1,047 | 0.37 | 0.33 | 57.2 |
| 4/27/2015 12:03:52 | 46.92 | 43.92 | 1,047 | 0.37 | 0.33 | 57.2 |
| 4/27/2015 12:03:52 | 47.24 | 44.24 | 1,074 | 0.37 | 0.33 | 58.7 |
| 4/27/2015 12:03:53 | 47.57 | 44.57 | 1,071 | 0.36 | 0.32 | 58.6 |
| 4/27/2015 12:03:53 | 47.90 | 44.90 | 1,071 | 0.36 | 0.32 | 58.6 |
| 4/27/2015 12:03:53 | 48.23 | 45.23 | 1,065 | 0.37 | 0.33 | 58.2 |
| 4/27/2015 12:03:54 | 48.56 | 45.56 | 1,054 | 0.37 | 0.32 | 57.6 |
| 4/27/2015 12:03:54 | 48.88 | 45.88 | 1,054 | 0.37 | 0.32 | 57.6 |
| 4/27/2015 12:03:54 | 49.21 | 46.21 | 1,070 | 0.37 | 0.35 | 58.5 |
| 4/27/2015 12:03:55 | 49.54 | 46.54 | 1,012 | 0.29 | 0.37 | 55.4 |
| 4/27/2015 12:03:56 | 49.87 | 46.87 | 897 | 0.30 | 0.39 | 49.0 |
| 4/27/2015 12:04:10 | 50.20 | 47.20 | 0 | 3.73 | 0.37 | 0.0 |
| 4/27/2015 12:04:12 | 50.53 | 47.53 | 154 | 3.94 | 0.29 | 8.4 |
| 4/27/2015 12:04:13 | 50.85 | 47.85 | 211 | 2.09 | 0.34 | 11.6 |
| 4/27/2015 12:04:17 | 51.18 | 48.18 | 0 | 2.60 | 0.35 | 0.0 |
| 4/27/2015 12:04:18 | 51.51 | 48.51 | 86 | 2.29 | 0.37 | 4.7 |
| 4/27/2015 12:04:18 | 51.84 | 48.84 | 192 | 2.36 | 0.38 | 10.5 |
| 4/27/2015 12:04:19 | 52.17 | 49.17 | 336 | 2.44 | 0.37 | 18.4 |
| 4/27/2015 12:04:20 | 52.49 | 49.49 | 422 | 3.58 | 0.38 | 23.1 |
| 4/27/2015 12:04:22 | 52.82 | 49.82 | 385 | 5.82 | 0.38 | 21.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:04:22 | 53.15 | 50.15 | 371 | 4.31 | 0.38 | 20.3 |
| 4/27/2015 | 12:04:31 | 53.48 | 50.48 | 81 | 4.19 | 0.38 | 4.4 |
| 4/27/2015 | 12:04:32 | 53.81 | 50.81 | 241 | 3.41 | 0.37 | 13.2 |
| 4/27/2015 | 12:04:33 | 54.13 | 51.13 | 327 | 3.35 | 0.37 | 17.9 |
| 4/27/2015 | 12:04:34 | 54.46 | 51.46 | 427 | 2.51 | 0.36 | 23.4 |
| 4/27/2015 | 12:04:41 | 54.79 | 51.79 | 0 | 3.71 | 0.37 | 0.0 |
| 4/27/2015 | 12:04:42 | 55.12 | 52.12 | 54 | 2.92 | 0.37 | 2.9 |
| 4/27/2015 | 12:04:42 | 55.45 | 52.45 | 160 | 2.55 | 0.38 | 8.8 |
| 4/27/2015 | 12:04:44 | 55.77 | 52.77 | 389 | 2.75 | 0.37 | 21.3 |
| 4/27/2015 | 12:04:44 | 56.10 | 53.10 | 501 | 3.63 | 0.37 | 27.4 |
| 4/27/2015 | 12:04:45 | 56.43 | 53.43 | 554 | 2.78 | 0.36 | 30.3 |
| 4/27/2015 | 12:04:45 | 56.76 | 53.76 | 562 | 2.51 | 0.36 | 30.7 |
| 4/27/2015 | 12:04:46 | 57.09 | 54.09 | 559 | 3.85 | 0.36 | 30.6 |
| 4/27/2015 | 12:04:47 | 57.41 | 54.41 | 544 | 1.90 | 0.35 | 29.7 |
| 4/27/2015 | 12:04:47 | 57.74 | 54.74 | 579 | 2.04 | 0.35 | 31.6 |
| 4/27/2015 | 12:04:48 | 58.07 | 55.07 | 604 | 2.93 | 0.33 | 33.0 |
| 4/27/2015 | 12:04:50 | 58.40 | 55.40 | 314 | 2.38 | 0.40 | 17.1 |
| 4/27/2015 | 12:04:50 | 58.48 | 55.48 | 314 | 2.38 | 0.40 | 17.1 |

## H1016 - Summary

**Pattern Number:**
AreaH_Lane16-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 12:01:57

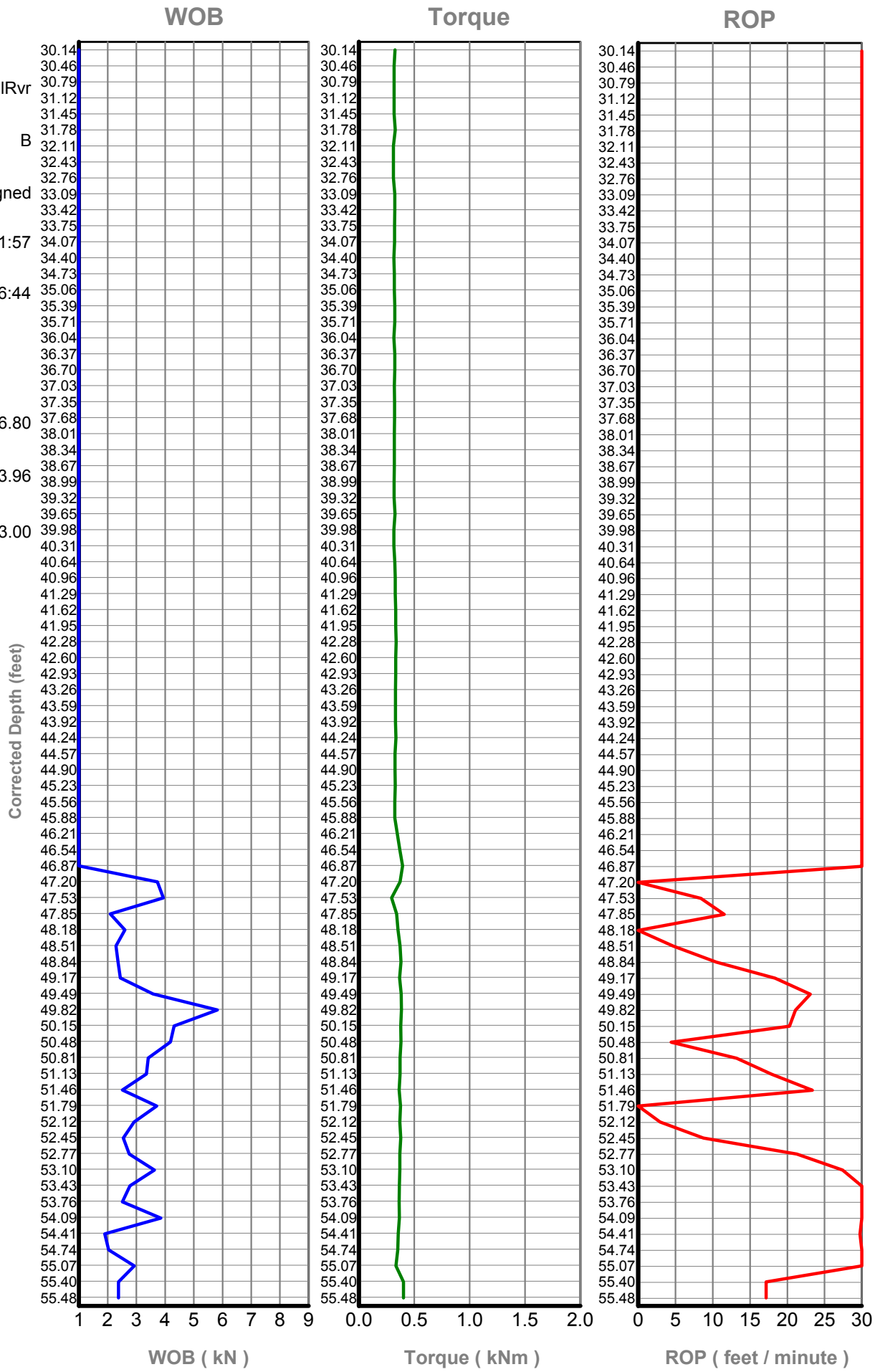
**End Date:**
4/27/2015 12:06:44

**Operator Note:**
'3 3.3 b Auto Complete'

**Northing:**
365,036.80

**Easting:**
249,253.96

**Tide (feet):**
3.00



## Hole: H1017 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:03:30 | 33.14 | 30.14 | 1,148 | 1.72 | 0.29 | 62.8 |
| 4/27/2015 12:03:31 | 33.46 | 30.46 | 1,148 | 1.71 | 0.29 | 62.8 |
| 4/27/2015 12:03:31 | 33.79 | 30.79 | 1,148 | 1.71 | 0.29 | 62.8 |
| 4/27/2015 12:03:31 | 34.12 | 31.12 | 1,153 | 1.72 | 0.29 | 63.1 |
| 4/27/2015 12:03:32 | 34.45 | 31.45 | 1,153 | 1.72 | 0.29 | 63.1 |
| 4/27/2015 12:03:32 | 34.78 | 31.78 | 1,150 | 1.70 | 0.29 | 62.9 |
| 4/27/2015 12:03:32 | 35.11 | 32.11 | 1,150 | 1.72 | 0.29 | 62.9 |
| 4/27/2015 12:03:33 | 35.43 | 32.43 | 1,150 | 1.72 | 0.29 | 62.9 |
| 4/27/2015 12:03:33 | 35.76 | 32.76 | 1,144 | 1.72 | 0.28 | 62.6 |
| 4/27/2015 12:03:33 | 36.09 | 33.09 | 1,144 | 1.72 | 0.28 | 62.6 |
| 4/27/2015 12:03:33 | 36.42 | 33.42 | 1,134 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 12:03:34 | 36.75 | 33.75 | 1,134 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 12:03:34 | 37.07 | 34.07 | 1,152 | 1.72 | 0.29 | 63.0 |
| 4/27/2015 12:03:34 | 37.40 | 34.40 | 1,152 | 1.72 | 0.29 | 63.0 |
| 4/27/2015 12:03:35 | 37.73 | 34.73 | 1,152 | 1.72 | 0.29 | 63.0 |
| 4/27/2015 12:03:35 | 38.06 | 35.06 | 1,170 | 1.71 | 0.28 | 64.0 |
| 4/27/2015 12:03:35 | 38.39 | 35.39 | 1,170 | 1.71 | 0.28 | 64.0 |
| 4/27/2015 12:03:35 | 38.71 | 35.71 | 1,169 | 1.72 | 0.29 | 63.9 |
| 4/27/2015 12:03:35 | 39.04 | 36.04 | 1,169 | 1.72 | 0.29 | 63.9 |
| 4/27/2015 12:03:36 | 39.37 | 36.37 | 1,169 | 1.72 | 0.29 | 63.9 |
| 4/27/2015 12:03:36 | 39.70 | 36.70 | 1,151 | 1.72 | 0.28 | 62.9 |
| 4/27/2015 12:03:37 | 40.03 | 37.03 | 1,151 | 1.72 | 0.28 | 62.9 |
| 4/27/2015 12:03:37 | 40.35 | 37.35 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 12:03:37 | 40.68 | 37.68 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 12:03:37 | 41.01 | 38.01 | 1,185 | 1.72 | 0.29 | 64.8 |
| 4/27/2015 12:03:38 | 41.34 | 38.34 | 1,161 | 1.73 | 0.28 | 63.5 |
| 4/27/2015 12:03:39 | 41.67 | 38.67 | 1,161 | 1.73 | 0.28 | 63.5 |
| 4/27/2015 12:03:38 | 41.99 | 38.99 | 1,132 | 1.72 | 0.29 | 61.9 |
| 4/27/2015 12:03:39 | 42.32 | 39.32 | 1,132 | 1.72 | 0.29 | 61.9 |
| 4/27/2015 12:03:39 | 42.65 | 39.65 | 1,132 | 1.77 | 0.28 | 61.9 |
| 4/27/2015 12:03:40 | 42.98 | 39.98 | 1,161 | 1.72 | 0.29 | 63.5 |
| 4/27/2015 12:03:40 | 43.31 | 40.31 | 1,161 | 1.72 | 0.29 | 63.5 |
| 4/27/2015 12:03:40 | 43.64 | 40.64 | 1,143 | 1.71 | 0.29 | 62.5 |
| 4/27/2015 12:03:40 | 43.96 | 40.96 | 1,143 | 1.71 | 0.29 | 62.5 |
| 4/27/2015 12:03:41 | 44.29 | 41.29 | 1,143 | 1.74 | 0.28 | 62.5 |
| 4/27/2015 12:03:41 | 44.62 | 41.62 | 1,138 | 1.74 | 0.29 | 62.2 |
| 4/27/2015 12:03:42 | 44.95 | 41.95 | 1,138 | 1.74 | 0.29 | 62.2 |
| 4/27/2015 12:03:42 | 45.28 | 42.28 | 1,140 | 1.74 | 0.29 | 62.4 |
| 4/27/2015 12:03:42 | 45.60 | 42.60 | 1,140 | 1.74 | 0.29 | 62.4 |
| 4/27/2015 12:03:42 | 45.93 | 42.93 | 1,140 | 1.72 | 0.28 | 62.4 |
| 4/27/2015 12:03:43 | 46.26 | 43.26 | 1,140 | 1.72 | 0.28 | 62.4 |
| 4/27/2015 12:03:43 | 46.59 | 43.59 | 1,139 | 1.72 | 0.29 | 62.3 |
| 4/27/2015 12:03:43 | 46.92 | 43.92 | 1,139 | 1.71 | 0.29 | 62.3 |
| 4/27/2015 12:03:44 | 47.24 | 44.24 | 1,139 | 1.71 | 0.29 | 62.3 |
| 4/27/2015 12:04:01 | 47.57 | 44.57 | 36 | 1.74 | 1.33 | 2.0 |
| 4/27/2015 12:04:02 | 47.90 | 44.90 | 90 | 1.72 | 1.19 | 4.9 |
| 4/27/2015 12:04:03 | 48.23 | 45.23 | 167 | 1.79 | 1.09 | 9.1 |
| 4/27/2015 12:04:03 | 48.56 | 45.56 | 273 | 1.76 | 1.14 | 14.9 |
| 4/27/2015 12:04:04 | 48.88 | 45.88 | 376 | 1.75 | 1.12 | 20.6 |
| 4/27/2015 12:04:05 | 49.21 | 46.21 | 477 | 1.73 | 1.16 | 26.1 |
| 4/27/2015 12:04:05 | 49.54 | 46.54 | 498 | 1.76 | 1.28 | 27.2 |
| 4/27/2015 12:04:27 | 49.87 | 46.87 | 11 | 1.77 | 1.20 | 0.6 |
| 4/27/2015 12:04:27 | 50.20 | 47.20 | 11 | 1.70 | 1.22 | 0.6 |
| 4/27/2015 12:04:28 | 50.53 | 47.53 | 131 | 1.73 | 1.36 | 7.1 |
| 4/27/2015 12:04:29 | 50.85 | 47.85 | 208 | 1.74 | 1.37 | 11.4 |
| 4/27/2015 12:05:22 | 51.18 | 48.18 | 0 | 1.79 | 1.29 | 0.0 |
| 4/27/2015 12:05:27 | 51.51 | 48.51 | 75 | 1.74 | 1.51 | 4.1 |
| 4/27/2015 12:06:26 | 51.84 | 48.84 | 55 | 1.74 | 1.33 | 3.0 |
| 4/27/2015 12:06:28 | 52.17 | 49.17 | 156 | 1.75 | 1.46 | 8.5 |
| 4/27/2015 12:07:02 | 52.49 | 49.49 | 17 | 1.74 | 1.49 | 0.9 |
| 4/27/2015 12:07:41 | 52.82 | 49.82 | 108 | 1.79 | 1.47 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:07:42 | 53.15 | 50.15 | 205 | 1.73 | 1.43 | 11.2 |
| 4/27/2015 | 12:07:43 | 53.48 | 50.48 | 270 | 1.77 | 1.19 | 14.8 |
| 4/27/2015 | 12:07:51 | 53.81 | 50.81 | 63 | 1.73 | 1.08 | 3.5 |
| 4/27/2015 | 12:08:58 | 54.13 | 51.13 | 0 | 1.72 | 1.19 | 0.0 |
| 4/27/2015 | 12:08:59 | 54.46 | 51.46 | 145 | 1.74 | 1.09 | 7.9 |
| 4/27/2015 | 12:09:00 | 54.79 | 51.79 | 304 | 1.77 | 1.12 | 16.6 |
| 4/27/2015 | 12:09:02 | 55.12 | 52.12 | 334 | 1.76 | 1.34 | 18.3 |
| 4/27/2015 | 12:09:04 | 55.45 | 52.45 | 196 | 1.72 | 1.33 | 10.7 |
| 4/27/2015 | 12:09:07 | 55.77 | 52.77 | 161 | 1.79 | 1.40 | 8.8 |
| 4/27/2015 | 12:09:15 | 56.10 | 53.10 | 40 | 1.75 | 1.23 | 2.2 |
| 4/27/2015 | 12:09:17 | 56.43 | 53.43 | 135 | 1.76 | 1.19 | 7.4 |
| 4/27/2015 | 12:09:19 | 56.76 | 53.76 | 174 | 1.78 | 1.33 | 9.5 |
| 4/27/2015 | 12:09:21 | 57.09 | 54.09 | 142 | 1.76 | 1.23 | 7.8 |
| 4/27/2015 | 12:09:26 | 57.41 | 54.41 | 69 | 1.76 | 1.29 | 3.8 |
| 4/27/2015 | 12:09:31 | 57.74 | 54.74 | 67 | 1.77 | 1.41 | 3.6 |
| 4/27/2015 | 12:09:34 | 58.07 | 55.07 | 113 | 1.76 | 1.35 | 6.2 |
| 4/27/2015 | 12:09:37 | 58.34 | 55.34 | 98 | 1.76 | 1.30 | 5.4 |

## H1017 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/27/2015 12:02:19

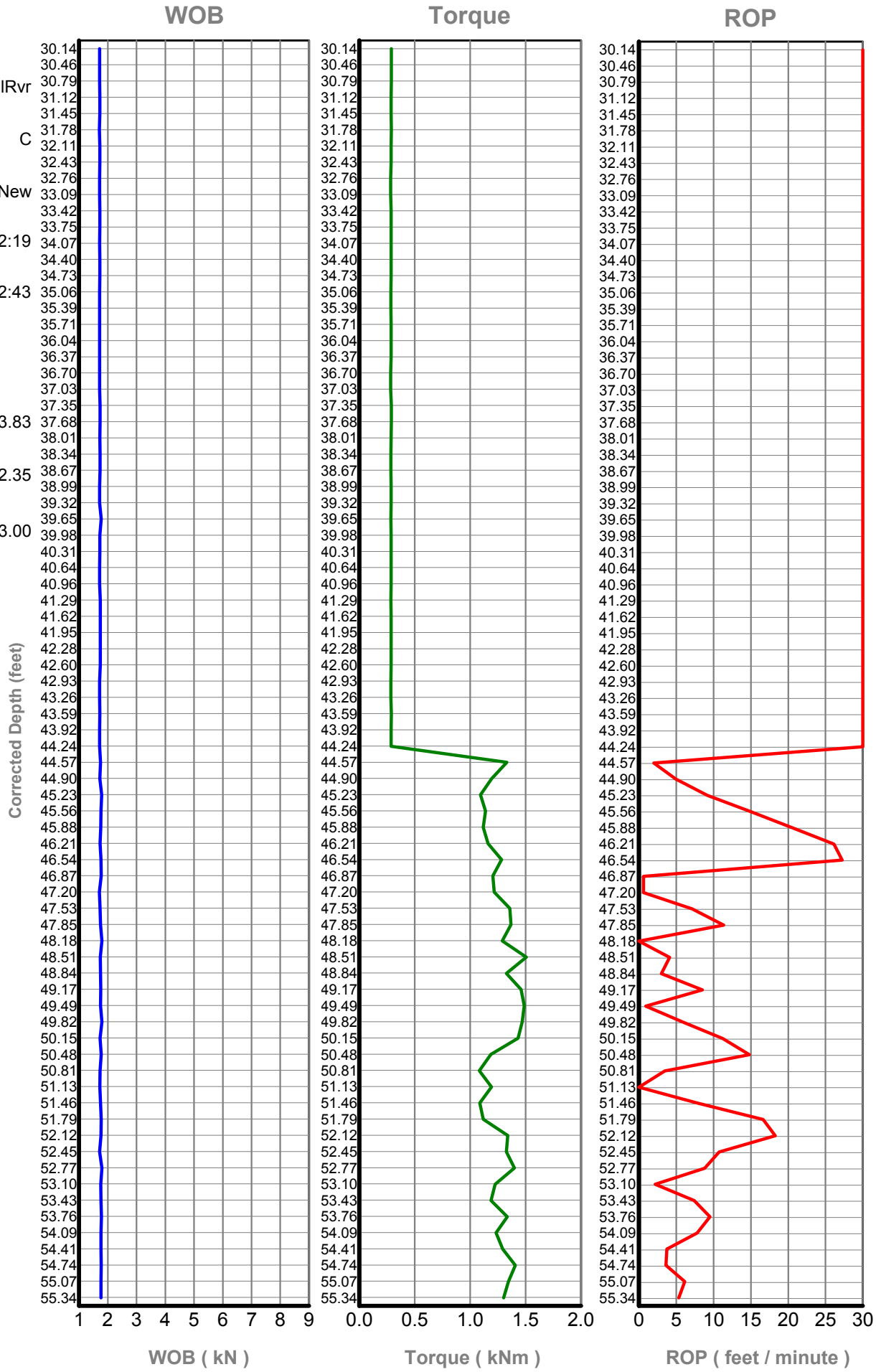
**End Date:**
4/27/2015 12:12:43

**Operator Note:**
'3 3.3 c Auto Complete'

**Northing:**
365,083.83

**Easting:**
249,312.35

**Tide (feet):**
3.00



## Hole: H1018 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:24:40 | 32.81 | 30.11 | 713 | 1.08 | 0.68 | 39.0 |
| 4/27/2015 12:24:41 | 33.14 | 30.44 | 708 | 1.06 | 0.72 | 38.7 |
| 4/27/2015 12:24:41 | 33.46 | 30.76 | 711 | 1.07 | 0.72 | 38.9 |
| 4/27/2015 12:24:42 | 33.79 | 31.09 | 711 | 1.08 | 0.73 | 38.9 |
| 4/27/2015 12:24:42 | 34.12 | 31.42 | 708 | 1.08 | 0.73 | 38.7 |
| 4/27/2015 12:24:43 | 34.45 | 31.75 | 708 | 1.08 | 0.73 | 38.7 |
| 4/27/2015 12:24:44 | 34.78 | 32.08 | 694 | 1.07 | 0.72 | 38.0 |
| 4/27/2015 12:24:44 | 35.11 | 32.41 | 694 | 1.07 | 0.73 | 38.0 |
| 4/27/2015 12:24:45 | 35.43 | 32.73 | 706 | 1.06 | 0.73 | 38.6 |
| 4/27/2015 12:24:45 | 35.76 | 33.06 | 704 | 1.07 | 0.73 | 38.5 |
| 4/27/2015 12:24:46 | 36.09 | 33.39 | 705 | 1.07 | 0.73 | 38.5 |
| 4/27/2015 12:24:46 | 36.42 | 33.72 | 707 | 1.07 | 0.73 | 38.7 |
| 4/27/2015 12:24:47 | 36.75 | 34.05 | 721 | 1.08 | 0.73 | 39.4 |
| 4/27/2015 12:24:47 | 37.07 | 34.37 | 714 | 1.08 | 0.73 | 39.0 |
| 4/27/2015 12:24:48 | 37.40 | 34.70 | 714 | 1.07 | 0.73 | 39.0 |
| 4/27/2015 12:24:48 | 37.73 | 35.03 | 717 | 1.08 | 0.72 | 39.2 |
| 4/27/2015 12:24:49 | 38.06 | 35.36 | 717 | 1.07 | 0.71 | 39.2 |
| 4/27/2015 12:24:49 | 38.39 | 35.69 | 717 | 1.05 | 0.73 | 39.2 |
| 4/27/2015 12:24:50 | 38.71 | 36.01 | 715 | 1.06 | 0.73 | 39.1 |
| 4/27/2015 12:24:50 | 39.04 | 36.34 | 711 | 1.07 | 0.72 | 38.9 |
| 4/27/2015 12:24:51 | 39.37 | 36.67 | 704 | 1.07 | 0.73 | 38.5 |
| 4/27/2015 12:24:51 | 39.70 | 37.00 | 704 | 1.07 | 0.73 | 38.5 |
| 4/27/2015 12:24:51 | 40.03 | 37.33 | 704 | 1.07 | 0.71 | 38.5 |
| 4/27/2015 12:24:52 | 40.35 | 37.65 | 709 | 1.07 | 0.72 | 38.8 |
| 4/27/2015 12:24:52 | 40.68 | 37.98 | 709 | 1.07 | 0.72 | 38.8 |
| 4/27/2015 12:24:53 | 41.01 | 38.31 | 710 | 1.07 | 0.72 | 38.8 |
| 4/27/2015 12:24:54 | 41.34 | 38.64 | 708 | 1.07 | 0.72 | 38.7 |
| 4/27/2015 12:24:54 | 41.67 | 38.97 | 717 | 1.09 | 0.75 | 39.2 |
| 4/27/2015 12:24:55 | 41.99 | 39.29 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 12:24:55 | 42.32 | 39.62 | 711 | 1.08 | 0.19 | 38.9 |
| 4/27/2015 12:24:56 | 42.65 | 39.95 | 711 | 1.07 | 0.20 | 38.9 |
| 4/27/2015 12:24:56 | 42.98 | 40.28 | 718 | 1.07 | 0.19 | 39.3 |
| 4/27/2015 12:24:57 | 43.31 | 40.61 | 714 | 1.09 | 0.19 | 39.0 |
| 4/27/2015 12:24:57 | 43.64 | 40.94 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 12:24:58 | 43.96 | 41.26 | 711 | 1.07 | 0.20 | 38.9 |
| 4/27/2015 12:24:58 | 44.29 | 41.59 | 707 | 1.08 | 0.19 | 38.7 |
| 4/27/2015 12:24:59 | 44.62 | 41.92 | 708 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 12:24:59 | 44.95 | 42.25 | 708 | 1.05 | 0.19 | 38.7 |
| 4/27/2015 12:25:00 | 45.28 | 42.58 | 708 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 12:25:00 | 45.60 | 42.90 | 708 | 1.08 | 0.19 | 38.7 |
| 4/27/2015 12:25:01 | 45.93 | 43.23 | 712 | 1.07 | 0.19 | 39.0 |
| 4/27/2015 12:25:01 | 46.26 | 43.56 | 705 | 1.07 | 0.19 | 38.6 |
| 4/27/2015 12:25:02 | 46.59 | 43.89 | 706 | 1.07 | 0.19 | 38.6 |
| 4/27/2015 12:25:03 | 46.92 | 44.22 | 702 | 1.07 | 0.19 | 38.4 |
| 4/27/2015 12:25:03 | 47.24 | 44.54 | 690 | 1.07 | 0.19 | 37.7 |
| 4/27/2015 12:25:03 | 47.57 | 44.87 | 690 | 1.07 | 0.17 | 37.7 |
| 4/27/2015 12:25:04 | 47.90 | 45.20 | 696 | 1.07 | 0.19 | 38.0 |
| 4/27/2015 12:25:05 | 48.23 | 45.53 | 698 | 1.07 | 0.19 | 38.2 |
| 4/27/2015 12:25:05 | 48.56 | 45.86 | 693 | 0.69 | 0.16 | 37.9 |
| 4/27/2015 12:25:13 | 48.88 | 46.18 | 0 | 1.10 | 0.92 | 0.0 |
| 4/27/2015 12:25:14 | 49.21 | 46.51 | 189 | 1.09 | 0.87 | 10.3 |
| 4/27/2015 12:25:15 | 49.54 | 46.84 | 354 | 1.07 | 0.87 | 19.4 |
| 4/27/2015 12:25:16 | 49.87 | 47.17 | 454 | 0.91 | 0.86 | 24.8 |
| 4/27/2015 12:25:16 | 50.20 | 47.50 | 449 | 1.08 | 0.85 | 24.5 |
| 4/27/2015 12:25:17 | 50.53 | 47.83 | 496 | 1.09 | 0.85 | 27.1 |
| 4/27/2015 12:25:18 | 50.85 | 48.15 | 511 | 1.10 | 0.92 | 28.0 |
| 4/27/2015 12:25:19 | 51.18 | 48.48 | 476 | 1.09 | 1.01 | 26.1 |
| 4/27/2015 12:25:19 | 51.51 | 48.81 | 448 | 1.10 | 1.05 | 24.5 |
| 4/27/2015 12:25:20 | 51.84 | 49.14 | 398 | 1.10 | 1.10 | 21.8 |
| 4/27/2015 12:25:21 | 52.17 | 49.47 | 422 | 1.10 | 1.02 | 23.1 |
| 4/27/2015 12:25:22 | 52.49 | 49.79 | 390 | 1.14 | 1.42 | 21.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:25:25 | 52.82 | 50.12 | 148 | 1.12 | 1.31 | 8.1 |
| 4/27/2015 | 12:25:29 | 53.15 | 50.45 | 92 | 1.15 | 1.35 | 5.1 |
| 4/27/2015 | 12:25:34 | 53.48 | 50.78 | 43 | 1.00 | 0.74 | 2.4 |
| 4/27/2015 | 12:25:37 | 53.81 | 51.11 | 137 | 0.98 | 1.00 | 7.5 |
| 4/27/2015 | 12:25:37 | 54.13 | 51.43 | 214 | 1.09 | 1.10 | 11.7 |
| 4/27/2015 | 12:25:39 | 54.46 | 51.76 | 341 | 1.09 | 1.13 | 18.6 |
| 4/27/2015 | 12:25:41 | 54.79 | 52.09 | 203 | 1.06 | 1.08 | 11.1 |
| 4/27/2015 | 12:25:41 | 55.12 | 52.42 | 202 | 1.06 | 0.86 | 11.1 |
| 4/27/2015 | 12:25:42 | 55.45 | 52.75 | 236 | 1.11 | 0.88 | 12.9 |
| 4/27/2015 | 12:25:43 | 55.77 | 53.07 | 373 | 1.05 | 1.02 | 20.4 |
| 4/27/2015 | 12:25:44 | 56.10 | 53.40 | 394 | 1.12 | 1.01 | 21.5 |
| 4/27/2015 | 12:25:45 | 56.43 | 53.73 | 407 | 1.05 | 1.12 | 22.3 |
| 4/27/2015 | 12:25:47 | 56.76 | 54.06 | 336 | 1.36 | 0.72 | 18.4 |
| 4/27/2015 | 12:25:48 | 57.09 | 54.39 | 286 | 1.04 | 1.16 | 15.7 |
| 4/27/2015 | 12:25:52 | 57.41 | 54.71 | 63 | 1.00 | 1.12 | 3.5 |
| 4/27/2015 | 12:25:54 | 57.74 | 55.04 | 128 | 1.07 | 1.17 | 7.0 |
| 4/27/2015 | 12:25:56 | 58.07 | 55.37 | 187 | 0.96 | 1.11 | 10.2 |
| 4/27/2015 | 12:25:56 | 58.12 | 55.42 | 187 | 0.96 | 1.11 | 10.2 |

## H1018 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 12:21:02

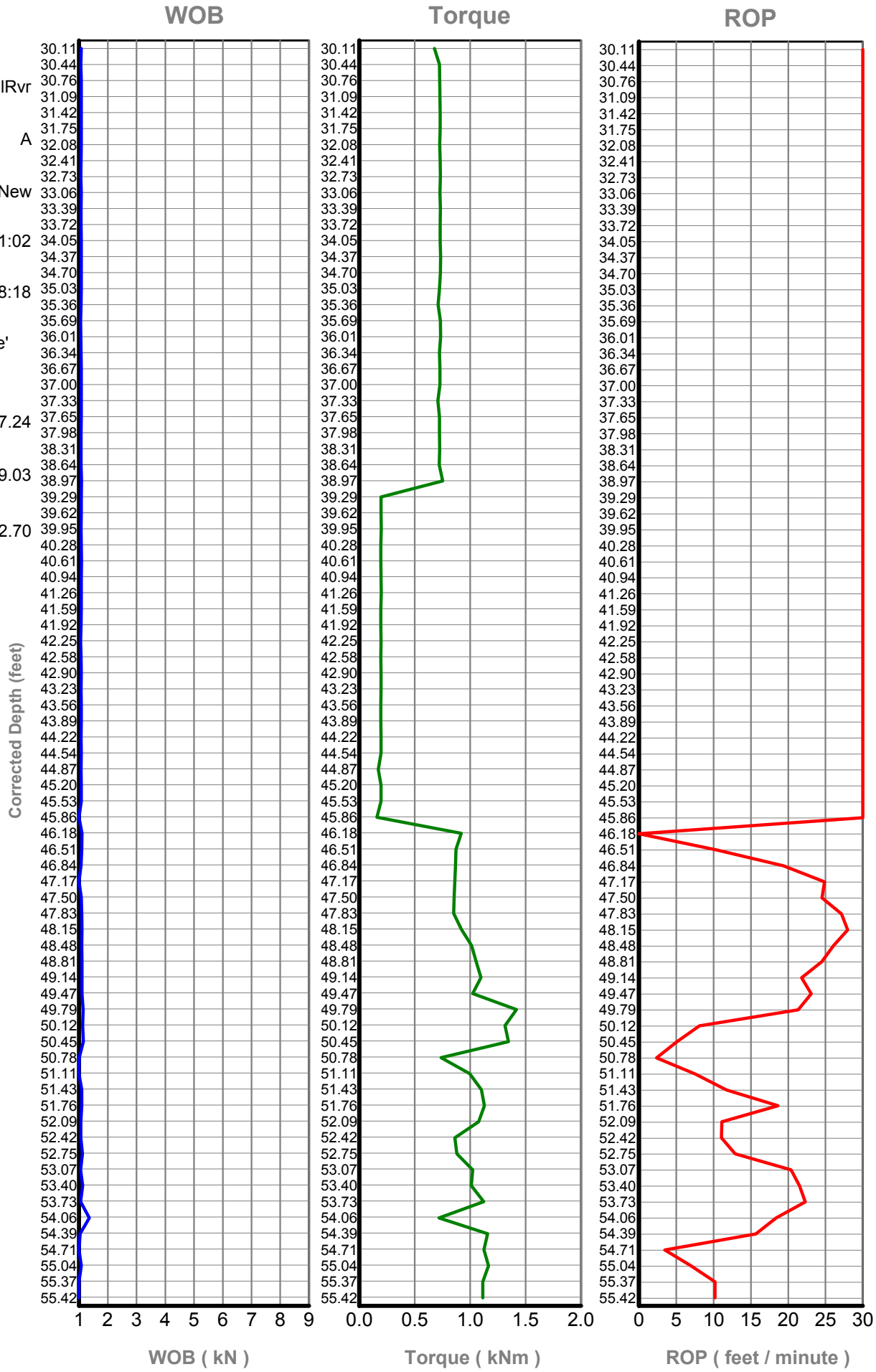
**End Date:**
4/27/2015 12:28:18

**Operator Note:**
'2.7 3.0 a Auto Complete'

**Northing:**
365,047.24

**Easting:**
249,149.03

**Tide (feet):**
2.70



## Hole: H1019 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:22:43 | 32.81 | 30.11 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 12:22:43 | 33.14 | 30.44 | 1,120 | 0.27 | 0.32 | 61.3 |
| 4/27/2015 12:22:43 | 33.46 | 30.76 | 1,121 | 0.28 | 0.33 | 61.3 |
| 4/27/2015 12:22:44 | 33.79 | 31.09 | 1,121 | 0.28 | 0.33 | 61.3 |
| 4/27/2015 12:22:44 | 34.12 | 31.42 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 12:22:44 | 34.45 | 31.75 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 12:22:44 | 34.78 | 32.08 | 1,136 | 0.29 | 0.31 | 62.1 |
| 4/27/2015 12:22:45 | 35.11 | 32.41 | 1,161 | 0.28 | 0.31 | 63.5 |
| 4/27/2015 12:22:45 | 35.43 | 32.73 | 1,161 | 0.28 | 0.31 | 63.5 |
| 4/27/2015 12:22:45 | 35.76 | 33.06 | 1,139 | 0.28 | 0.32 | 62.3 |
| 4/27/2015 12:22:46 | 36.09 | 33.39 | 1,139 | 0.28 | 0.32 | 62.3 |
| 4/27/2015 12:22:46 | 36.42 | 33.72 | 1,142 | 0.28 | 0.32 | 62.4 |
| 4/27/2015 12:22:47 | 36.75 | 34.05 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:47 | 37.07 | 34.37 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:47 | 37.40 | 34.70 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:48 | 37.73 | 35.03 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:48 | 38.06 | 35.36 | 1,126 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 12:22:48 | 38.39 | 35.69 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:49 | 38.71 | 36.01 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:49 | 39.04 | 36.34 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:49 | 39.37 | 36.67 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:49 | 39.70 | 37.00 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 12:22:50 | 40.03 | 37.33 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 12:22:50 | 40.35 | 37.65 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 12:22:50 | 40.68 | 37.98 | 1,139 | 0.28 | 0.32 | 62.3 |
| 4/27/2015 12:22:51 | 41.01 | 38.31 | 1,139 | 0.28 | 0.32 | 62.3 |
| 4/27/2015 12:22:51 | 41.34 | 38.64 | 1,136 | 0.27 | 0.32 | 62.1 |
| 4/27/2015 12:22:51 | 41.67 | 38.97 | 1,136 | 0.29 | 0.31 | 62.1 |
| 4/27/2015 12:22:52 | 41.99 | 39.29 | 1,136 | 0.29 | 0.31 | 62.1 |
| 4/27/2015 12:22:52 | 42.32 | 39.62 | 1,117 | 0.28 | 0.31 | 61.1 |
| 4/27/2015 12:22:52 | 42.65 | 39.95 | 1,117 | 0.28 | 0.31 | 61.1 |
| 4/27/2015 12:22:53 | 42.98 | 40.28 | 1,117 | 0.28 | 0.31 | 61.1 |
| 4/27/2015 12:22:53 | 43.31 | 40.61 | 1,126 | 0.28 | 0.31 | 61.6 |
| 4/27/2015 12:22:53 | 43.64 | 40.94 | 1,126 | 0.28 | 0.31 | 61.6 |
| 4/27/2015 12:22:53 | 43.96 | 41.26 | 1,127 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 12:22:54 | 44.29 | 41.59 | 1,120 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:54 | 44.62 | 41.92 | 1,120 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:54 | 44.95 | 42.25 | 1,120 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:55 | 45.28 | 42.58 | 1,120 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:55 | 45.60 | 42.90 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 12:22:55 | 45.93 | 43.23 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:56 | 46.26 | 43.56 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 12:22:56 | 46.59 | 43.89 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 12:22:56 | 46.92 | 44.22 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 12:22:57 | 47.24 | 44.54 | 1,125 | 0.28 | 0.31 | 61.5 |
| 4/27/2015 12:22:57 | 47.57 | 44.87 | 1,119 | 0.27 | 0.33 | 61.2 |
| 4/27/2015 12:22:58 | 47.90 | 45.20 | 1,119 | 0.27 | 0.33 | 61.2 |
| 4/27/2015 12:22:58 | 48.23 | 45.53 | 1,098 | 0.27 | 0.36 | 60.1 |
| 4/27/2015 12:22:59 | 48.56 | 45.86 | 661 | 0.29 | 0.25 | 36.1 |
| 4/27/2015 12:23:21 | 48.88 | 46.18 | 81 | 2.99 | 0.31 | 4.4 |
| 4/27/2015 12:23:23 | 49.21 | 46.51 | 162 | 5.83 | 0.40 | 8.8 |
| 4/27/2015 12:23:24 | 49.54 | 46.84 | 259 | 2.40 | 0.35 | 14.1 |
| 4/27/2015 12:23:24 | 49.87 | 47.17 | 369 | 2.42 | 0.35 | 20.2 |
| 4/27/2015 12:23:25 | 50.20 | 47.50 | 467 | 2.21 | 0.35 | 25.5 |
| 4/27/2015 12:23:25 | 50.53 | 47.83 | 546 | 3.35 | 0.37 | 29.9 |
| 4/27/2015 12:23:30 | 50.85 | 48.15 | 82 | 4.68 | 0.39 | 4.5 |
| 4/27/2015 12:23:32 | 51.18 | 48.48 | 150 | 3.69 | 0.38 | 8.2 |
| 4/27/2015 12:23:33 | 51.51 | 48.81 | 293 | 5.44 | 0.38 | 16.0 |
| 4/27/2015 12:23:33 | 51.84 | 49.14 | 302 | 3.69 | 0.38 | 16.5 |
| 4/27/2015 12:23:41 | 52.17 | 49.47 | 31 | 4.76 | 0.37 | 1.7 |
| 4/27/2015 12:23:42 | 52.49 | 49.79 | 218 | 3.55 | 0.37 | 11.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:23:42 | 52.82 | 50.12 | 327 | 2.53 | 0.36 | 17.9 |
| 4/27/2015 | 12:23:43 | 53.15 | 50.45 | 327 | 2.25 | 0.35 | 17.9 |
| 4/27/2015 | 12:25:24 | 53.48 | 50.78 | 27 | 2.18 | 0.35 | 1.5 |
| 4/27/2015 | 12:25:25 | 53.81 | 51.11 | 167 | 2.08 | 0.35 | 9.1 |
| 4/27/2015 | 12:25:25 | 54.13 | 51.43 | 316 | 2.21 | 0.36 | 17.3 |
| 4/27/2015 | 12:25:26 | 54.46 | 51.76 | 460 | 2.69 | 0.36 | 25.2 |
| 4/27/2015 | 12:26:08 | 54.79 | 52.09 | 0 | 3.28 | 0.36 | 0.0 |
| 4/27/2015 | 12:26:14 | 55.12 | 52.42 | 31 | 5.27 | 0.38 | 1.7 |
| 4/27/2015 | 12:26:15 | 55.45 | 52.75 | 105 | 2.86 | 0.38 | 5.7 |
| 4/27/2015 | 12:26:16 | 55.77 | 53.07 | 311 | 2.41 | 0.36 | 17.0 |
| 4/27/2015 | 12:26:19 | 56.10 | 53.40 | 0 | 1.76 | 0.34 | 0.0 |
| 4/27/2015 | 12:26:20 | 56.43 | 53.73 | 63 | 2.25 | 0.37 | 3.4 |
| 4/27/2015 | 12:26:21 | 56.76 | 54.06 | 267 | 2.15 | 0.38 | 14.6 |
| 4/27/2015 | 12:26:24 | 57.09 | 54.39 | 89 | 4.55 | 0.39 | 4.9 |
| 4/27/2015 | 12:26:26 | 57.41 | 54.71 | 87 | 2.26 | 0.38 | 4.8 |
| 4/27/2015 | 12:26:27 | 57.74 | 55.04 | 176 | 2.04 | 0.36 | 9.6 |
| 4/27/2015 | 12:26:27 | 58.07 | 55.37 | 314 | 2.05 | 0.35 | 17.2 |
| 4/27/2015 | 12:26:28 | 58.40 | 55.70 | 433 | 1.96 | 0.35 | 23.7 |
| 4/27/2015 | 12:26:28 | 58.51 | 55.81 | 433 | 1.96 | 0.35 | 23.7 |

## H1019 - Summary

**Pattern Number:**
AreaH_Lane16-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 12:20:54

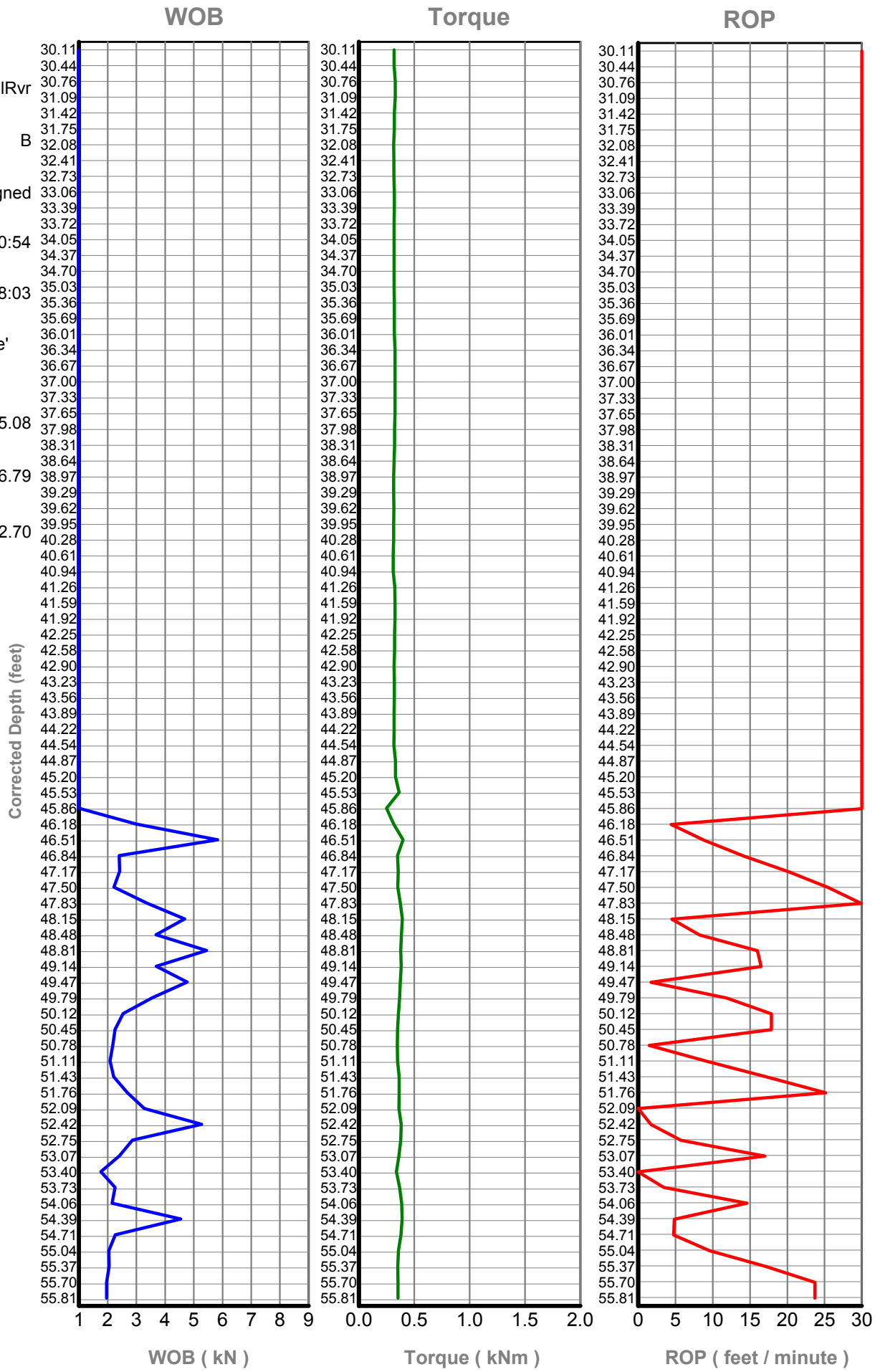
**End Date:**
4/27/2015 12:28:03

**Operator Note:**
'2.7 3.0 b Auto Complete'

**Northing:**
365,095.08

**Easting:**
249,206.79

**Tide (feet):**
2.70



## Hole: H102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:23:10 | 32.48 | 30.28 | 584 | 1.78 | 0.29 | 31.9 |
| 4/26/2015 12:23:11 | 32.81 | 30.61 | 584 | 1.79 | 0.29 | 31.9 |
| 4/26/2015 12:23:11 | 33.14 | 30.94 | 581 | 1.76 | 0.29 | 31.7 |
| 4/26/2015 12:23:12 | 33.46 | 31.26 | 585 | 1.76 | 0.29 | 32.0 |
| 4/26/2015 12:23:13 | 33.79 | 31.59 | 579 | 1.78 | 0.28 | 31.6 |
| 4/26/2015 12:23:13 | 34.12 | 31.92 | 578 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:23:14 | 34.45 | 32.25 | 585 | 1.76 | 0.29 | 32.0 |
| 4/26/2015 12:23:14 | 34.78 | 32.58 | 577 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:23:15 | 35.11 | 32.91 | 581 | 1.79 | 0.29 | 31.8 |
| 4/26/2015 12:23:16 | 35.43 | 33.23 | 581 | 1.78 | 0.28 | 31.8 |
| 4/26/2015 12:23:17 | 35.76 | 33.56 | 568 | 1.77 | 0.29 | 31.1 |
| 4/26/2015 12:23:17 | 36.09 | 33.89 | 568 | 1.77 | 0.29 | 31.1 |
| 4/26/2015 12:23:18 | 36.42 | 34.22 | 577 | 1.77 | 0.28 | 31.6 |
| 4/26/2015 12:23:18 | 36.75 | 34.55 | 577 | 1.78 | 0.29 | 31.5 |
| 4/26/2015 12:23:19 | 37.07 | 34.87 | 565 | 1.77 | 0.28 | 30.9 |
| 4/26/2015 12:23:20 | 37.40 | 35.20 | 569 | 1.79 | 0.29 | 31.1 |
| 4/26/2015 12:23:20 | 37.73 | 35.53 | 585 | 1.77 | 0.29 | 32.0 |
| 4/26/2015 12:23:21 | 38.06 | 35.86 | 576 | 1.79 | 0.29 | 31.5 |
| 4/26/2015 12:23:21 | 38.39 | 36.19 | 577 | 1.68 | 0.29 | 31.6 |
| 4/26/2015 12:23:22 | 38.71 | 36.51 | 589 | 1.79 | 0.28 | 32.2 |
| 4/26/2015 12:23:22 | 39.04 | 36.84 | 585 | 1.76 | 0.29 | 32.0 |
| 4/26/2015 12:23:23 | 39.37 | 37.17 | 581 | 1.78 | 0.28 | 31.8 |
| 4/26/2015 12:23:24 | 39.70 | 37.50 | 575 | 1.77 | 0.28 | 31.4 |
| 4/26/2015 12:23:24 | 40.03 | 37.83 | 581 | 1.77 | 0.29 | 31.8 |
| 4/26/2015 12:23:25 | 40.35 | 38.15 | 578 | 1.77 | 0.28 | 31.6 |
| 4/26/2015 12:23:25 | 40.68 | 38.48 | 578 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:23:27 | 41.01 | 38.81 | 581 | 1.78 | 0.28 | 31.8 |
| 4/26/2015 12:23:27 | 41.34 | 39.14 | 578 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:23:28 | 41.67 | 39.47 | 575 | 1.77 | 0.29 | 31.5 |
| 4/26/2015 12:23:28 | 41.99 | 39.79 | 572 | 1.77 | 0.28 | 31.3 |
| 4/26/2015 12:23:29 | 42.32 | 40.12 | 575 | 1.76 | 0.28 | 31.5 |
| 4/26/2015 12:23:30 | 42.65 | 40.45 | 572 | 1.75 | 0.28 | 31.3 |
| 4/26/2015 12:23:30 | 42.98 | 40.78 | 575 | 1.78 | 0.28 | 31.5 |
| 4/26/2015 12:23:31 | 43.31 | 41.11 | 578 | 1.78 | 0.28 | 31.6 |
| 4/26/2015 12:23:31 | 43.64 | 41.44 | 575 | 1.76 | 0.28 | 31.4 |
| 4/26/2015 12:23:32 | 43.96 | 41.76 | 575 | 1.76 | 0.28 | 31.4 |
| 4/26/2015 12:23:32 | 44.29 | 42.09 | 568 | 1.77 | 0.28 | 31.1 |
| 4/26/2015 12:23:33 | 44.62 | 42.42 | 572 | 1.76 | 0.29 | 31.3 |
| 4/26/2015 12:23:34 | 44.95 | 42.75 | 573 | 1.77 | 0.28 | 31.3 |
| 4/26/2015 12:23:34 | 45.28 | 43.08 | 572 | 1.78 | 0.28 | 31.3 |
| 4/26/2015 12:23:35 | 45.60 | 43.40 | 572 | 1.76 | 0.28 | 31.3 |
| 4/26/2015 12:23:35 | 45.93 | 43.73 | 582 | 1.77 | 0.29 | 31.8 |
| 4/26/2015 12:23:37 | 46.26 | 44.06 | 572 | 1.78 | 0.28 | 31.3 |
| 4/26/2015 12:23:37 | 46.59 | 44.39 | 575 | 1.78 | 0.29 | 31.5 |
| 4/26/2015 12:23:38 | 46.92 | 44.72 | 575 | 1.76 | 0.29 | 31.5 |
| 4/26/2015 12:23:38 | 47.24 | 45.04 | 572 | 1.74 | 0.29 | 31.3 |
| 4/26/2015 12:23:39 | 47.57 | 45.37 | 575 | 1.76 | 0.29 | 31.5 |
| 4/26/2015 12:23:58 | 47.90 | 45.70 | 35 | 1.79 | 1.14 | 1.9 |
| 4/26/2015 12:24:12 | 48.23 | 46.03 | 29 | 1.79 | 1.18 | 1.6 |
| 4/26/2015 12:24:26 | 48.56 | 46.36 | 25 | 1.79 | 1.01 | 1.4 |
| 4/26/2015 12:24:39 | 48.88 | 46.68 | 29 | 1.76 | 1.03 | 1.6 |
| 4/26/2015 12:24:52 | 49.21 | 47.01 | 23 | 1.79 | 1.00 | 1.2 |
| 4/26/2015 12:24:56 | 49.32 | 47.12 | 29 | 1.78 | 1.14 | 1.6 |

## H102 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:21:25

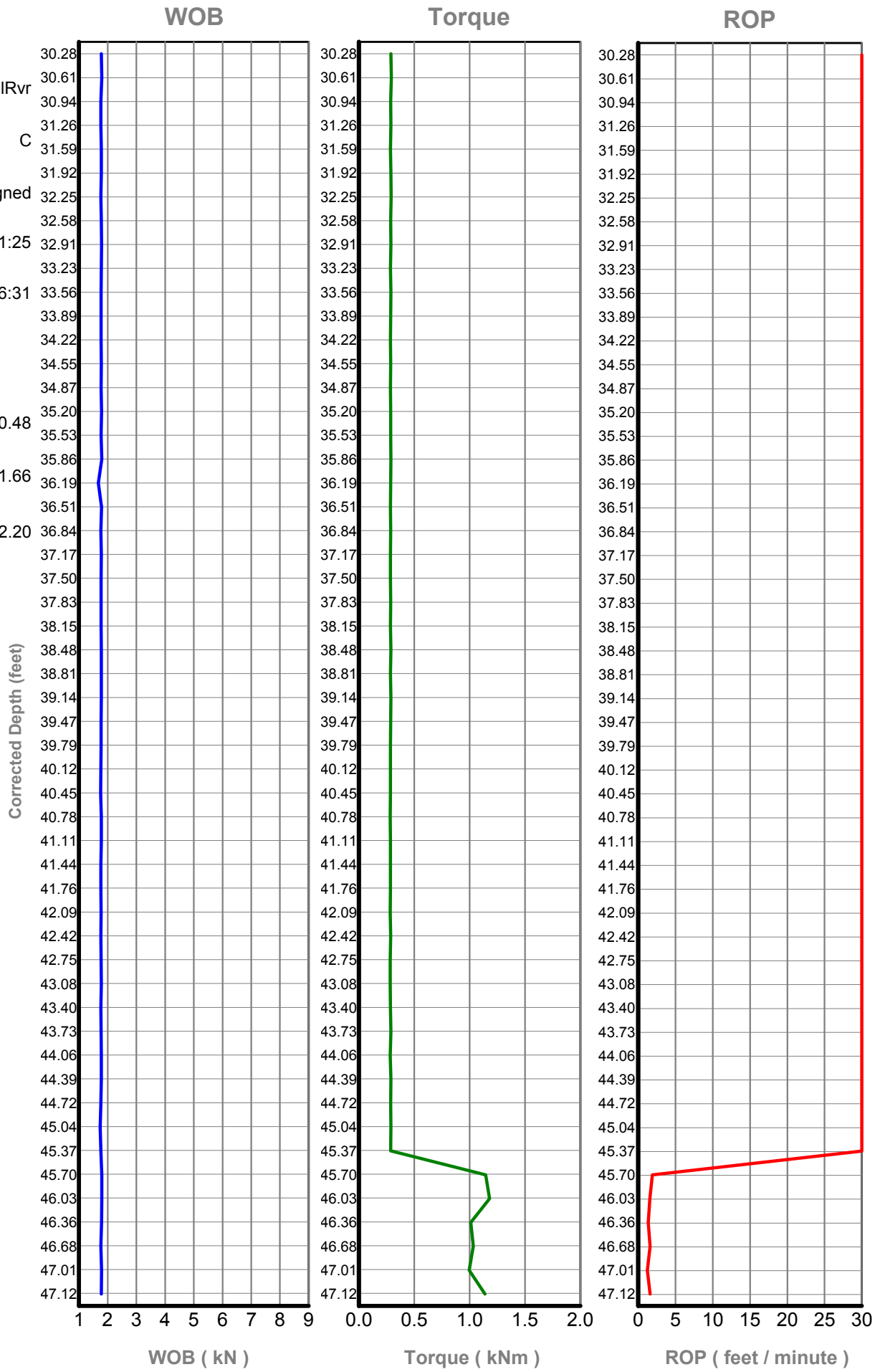
**End Date:**
4/26/2015 12:26:31

**Operator Note:**
'2.2 2.3 C Auto Complete'

**Northing:**
366,280.48

**Easting:**
250,081.66

**Tide (feet):**
2.20



## Hole: H1020 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:22:23 | 32.81 | 30.11 | 1,206 | 1.73 | 0.29 | 65.9 |
| 4/27/2015 12:22:23 | 33.14 | 30.44 | 1,206 | 1.73 | 0.29 | 65.9 |
| 4/27/2015 12:22:23 | 33.46 | 30.76 | 1,203 | 1.71 | 0.28 | 65.8 |
| 4/27/2015 12:22:24 | 33.79 | 31.09 | 1,203 | 1.71 | 0.28 | 65.8 |
| 4/27/2015 12:22:24 | 34.12 | 31.42 | 1,189 | 1.70 | 0.28 | 65.0 |
| 4/27/2015 12:22:25 | 34.45 | 31.75 | 1,194 | 1.71 | 0.28 | 65.3 |
| 4/27/2015 12:22:25 | 34.78 | 32.08 | 1,194 | 1.71 | 0.28 | 65.3 |
| 4/27/2015 12:22:25 | 35.11 | 32.41 | 1,204 | 1.71 | 0.28 | 65.9 |
| 4/27/2015 12:22:26 | 35.43 | 32.73 | 1,204 | 1.71 | 0.28 | 65.9 |
| 4/27/2015 12:22:26 | 35.76 | 33.06 | 1,199 | 1.72 | 0.28 | 65.5 |
| 4/27/2015 12:22:26 | 36.09 | 33.39 | 1,199 | 1.72 | 0.28 | 65.5 |
| 4/27/2015 12:22:26 | 36.42 | 33.72 | 1,178 | 1.70 | 0.28 | 64.4 |
| 4/27/2015 12:22:27 | 36.75 | 34.05 | 1,209 | 1.74 | 0.29 | 66.1 |
| 4/27/2015 12:22:27 | 37.07 | 34.37 | 1,209 | 1.74 | 0.29 | 66.1 |
| 4/27/2015 12:22:27 | 37.40 | 34.70 | 1,197 | 1.70 | 0.28 | 65.5 |
| 4/27/2015 12:22:28 | 37.73 | 35.03 | 1,197 | 1.70 | 0.28 | 65.5 |
| 4/27/2015 12:22:28 | 38.06 | 35.36 | 1,199 | 1.71 | 0.28 | 65.6 |
| 4/27/2015 12:22:28 | 38.39 | 35.69 | 1,199 | 1.71 | 0.28 | 65.6 |
| 4/27/2015 12:22:28 | 38.71 | 36.01 | 1,202 | 1.70 | 0.29 | 65.7 |
| 4/27/2015 12:22:29 | 39.04 | 36.34 | 1,215 | 1.72 | 0.29 | 66.4 |
| 4/27/2015 12:22:29 | 39.37 | 36.67 | 1,215 | 1.72 | 0.29 | 66.4 |
| 4/27/2015 12:22:29 | 39.70 | 37.00 | 1,207 | 1.70 | 0.29 | 66.0 |
| 4/27/2015 12:22:30 | 40.03 | 37.33 | 1,207 | 1.70 | 0.29 | 66.0 |
| 4/27/2015 12:22:30 | 40.35 | 37.65 | 1,204 | 1.69 | 0.29 | 65.8 |
| 4/27/2015 12:22:30 | 40.68 | 37.98 | 1,204 | 1.69 | 0.29 | 65.8 |
| 4/27/2015 12:22:30 | 41.01 | 38.31 | 1,200 | 1.70 | 0.29 | 65.6 |
| 4/27/2015 12:22:31 | 41.34 | 38.64 | 1,197 | 1.74 | 0.29 | 65.4 |
| 4/27/2015 12:22:31 | 41.67 | 38.97 | 1,197 | 1.74 | 0.29 | 65.4 |
| 4/27/2015 12:22:31 | 41.99 | 39.29 | 1,178 | 1.70 | 0.29 | 64.4 |
| 4/27/2015 12:22:32 | 42.32 | 39.62 | 1,178 | 1.70 | 0.29 | 64.4 |
| 4/27/2015 12:22:32 | 42.65 | 39.95 | 1,178 | 1.73 | 0.29 | 64.4 |
| 4/27/2015 12:22:32 | 42.98 | 40.28 | 1,178 | 1.73 | 0.29 | 64.4 |
| 4/27/2015 12:22:32 | 43.31 | 40.61 | 1,182 | 1.70 | 0.29 | 64.6 |
| 4/27/2015 12:22:33 | 43.64 | 40.94 | 1,182 | 1.72 | 0.29 | 64.7 |
| 4/27/2015 12:22:33 | 43.96 | 41.26 | 1,182 | 1.72 | 0.29 | 64.7 |
| 4/27/2015 12:22:33 | 44.29 | 41.59 | 1,179 | 1.72 | 0.29 | 64.5 |
| 4/27/2015 12:22:34 | 44.62 | 41.92 | 1,179 | 1.72 | 0.29 | 64.5 |
| 4/27/2015 12:22:34 | 44.95 | 42.25 | 1,179 | 1.72 | 0.29 | 64.5 |
| 4/27/2015 12:22:34 | 45.28 | 42.58 | 1,179 | 1.72 | 0.29 | 64.5 |
| 4/27/2015 12:22:34 | 45.60 | 42.90 | 1,203 | 1.73 | 0.29 | 65.8 |
| 4/27/2015 12:22:35 | 45.93 | 43.23 | 1,188 | 1.76 | 0.29 | 65.0 |
| 4/27/2015 12:22:36 | 46.26 | 43.56 | 1,188 | 1.76 | 0.29 | 65.0 |
| 4/27/2015 12:23:21 | 46.59 | 43.89 | 11 | 1.79 | 0.85 | 0.6 |
| 4/27/2015 12:23:22 | 46.92 | 44.22 | 119 | 1.77 | 0.87 | 6.5 |
| 4/27/2015 12:23:22 | 47.24 | 44.54 | 119 | 1.68 | 1.08 | 6.5 |
| 4/27/2015 12:23:23 | 47.57 | 44.87 | 321 | 1.76 | 1.05 | 17.6 |
| 4/27/2015 12:23:28 | 47.90 | 45.20 | 0 | 1.76 | 1.23 | 0.0 |
| 4/27/2015 12:23:29 | 48.23 | 45.53 | 46 | 1.81 | 1.15 | 2.5 |
| 4/27/2015 12:23:30 | 48.56 | 45.86 | 284 | 1.76 | 1.44 | 15.5 |
| 4/27/2015 12:23:30 | 48.88 | 46.18 | 406 | 1.77 | 1.17 | 22.2 |
| 4/27/2015 12:23:31 | 49.21 | 46.51 | 518 | 1.81 | 1.30 | 28.3 |
| 4/27/2015 12:24:46 | 49.54 | 46.84 | 83 | 1.73 | 1.49 | 4.5 |
| 4/27/2015 12:24:47 | 49.87 | 47.17 | 221 | 1.78 | 1.50 | 12.1 |
| 4/27/2015 12:24:49 | 50.20 | 47.50 | 216 | 1.74 | 1.34 | 11.8 |
| 4/27/2015 12:26:01 | 50.53 | 47.83 | 2 | 1.66 | 1.38 | 0.1 |
| 4/27/2015 12:26:04 | 50.85 | 48.15 | 124 | 1.85 | 1.14 | 6.8 |
| 4/27/2015 12:26:05 | 51.18 | 48.48 | 129 | 1.78 | 1.39 | 7.0 |
| 4/27/2015 12:26:10 | 51.51 | 48.81 | 37 | 1.87 | 1.19 | 2.0 |
| 4/27/2015 12:26:12 | 51.84 | 49.14 | 153 | 1.76 | 1.14 | 8.3 |
| 4/27/2015 12:26:16 | 52.17 | 49.47 | 46 | 1.78 | 1.12 | 2.5 |
| 4/27/2015 12:26:18 | 52.49 | 49.79 | 193 | 1.72 | 1.06 | 10.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:26:26 | 52.82 | 50.12 | 35 | 1.74 | 1.19 | 1.9 |
| 4/27/2015 | 12:26:26 | 53.15 | 50.45 | 143 | 1.80 | 1.00 | 7.8 |
| 4/27/2015 | 12:26:27 | 53.48 | 50.78 | 302 | 1.79 | 0.95 | 16.5 |
| 4/27/2015 | 12:26:27 | 53.81 | 51.11 | 417 | 1.79 | 1.06 | 22.8 |
| 4/27/2015 | 12:26:28 | 54.13 | 51.43 | 540 | 1.77 | 1.05 | 29.5 |
| 4/27/2015 | 12:27:04 | 54.46 | 51.76 | 56 | 1.76 | 1.16 | 3.0 |
| 4/27/2015 | 12:27:04 | 54.79 | 52.09 | 126 | 1.72 | 1.16 | 6.9 |
| 4/27/2015 | 12:27:06 | 55.12 | 52.42 | 234 | 1.74 | 1.19 | 12.8 |
| 4/27/2015 | 12:27:08 | 55.45 | 52.75 | 189 | 1.73 | 1.19 | 10.3 |
| 4/27/2015 | 12:27:10 | 55.77 | 53.07 | 194 | 1.72 | 1.21 | 10.6 |
| 4/27/2015 | 12:27:12 | 56.10 | 53.40 | 155 | 1.75 | 1.23 | 8.5 |
| 4/27/2015 | 12:27:17 | 56.43 | 53.73 | 78 | 1.76 | 1.25 | 4.3 |
| 4/27/2015 | 12:27:27 | 56.76 | 54.06 | 40 | 1.72 | 1.17 | 2.2 |
| 4/27/2015 | 12:27:30 | 57.09 | 54.39 | 166 | 1.75 | 1.21 | 9.1 |
| 4/27/2015 | 12:27:36 | 57.41 | 54.71 | 43 | 1.67 | 1.23 | 2.3 |
| 4/27/2015 | 12:27:38 | 57.74 | 55.04 | 75 | 1.75 | 1.36 | 4.1 |
| 4/27/2015 | 12:27:42 | 57.99 | 55.29 | 89 | 1.77 | 1.50 | 4.9 |

## H1020 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/27/2015 12:21:16

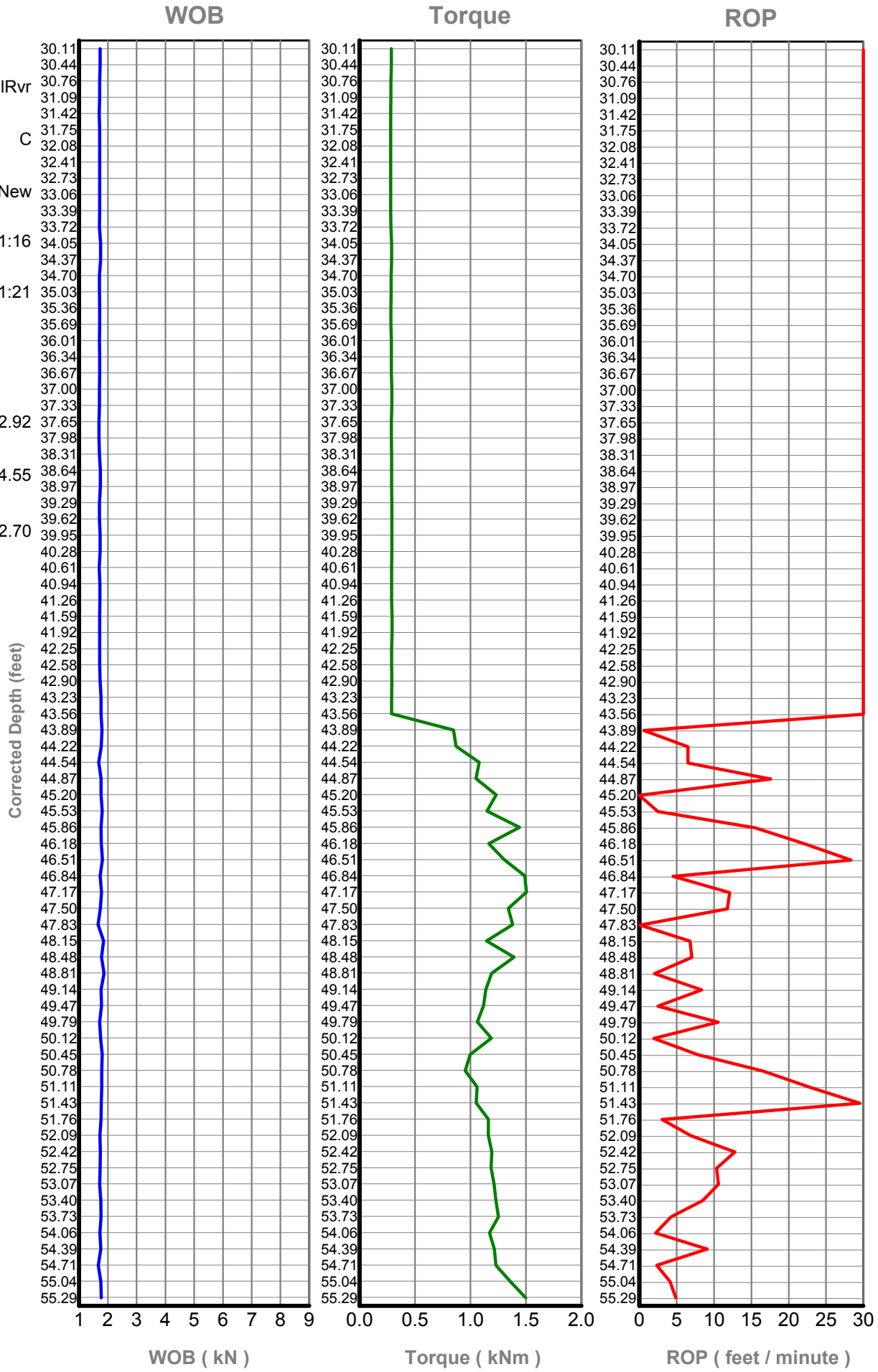
**End Date:**
4/27/2015 12:31:21

**Operator Note:**
'2.7 3.0 C Auto Complete'

**Northing:**
365,142.92

**Easting:**
249,264.55

**Tide (feet):**
2.70



## Hole: H1021 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:41:21 | 32.48 | 30.08 | 719 | 1.08 | 0.20 | 39.3 |
| 4/27/2015 12:41:22 | 32.81 | 30.41 | 721 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:41:22 | 33.14 | 30.74 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 12:41:23 | 33.46 | 31.06 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 12:41:23 | 33.79 | 31.39 | 719 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 12:41:24 | 34.12 | 31.72 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:41:24 | 34.45 | 32.05 | 734 | 1.07 | 0.20 | 40.1 |
| 4/27/2015 12:41:25 | 34.78 | 32.38 | 721 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 12:41:25 | 35.11 | 32.71 | 721 | 1.07 | 0.20 | 39.4 |
| 4/27/2015 12:41:26 | 35.43 | 33.03 | 728 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 12:41:26 | 35.76 | 33.36 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 12:41:27 | 36.09 | 33.69 | 727 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:41:27 | 36.42 | 34.02 | 731 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 12:41:28 | 36.75 | 34.35 | 740 | 1.07 | 0.20 | 40.4 |
| 4/27/2015 12:41:28 | 37.07 | 34.67 | 740 | 1.07 | 0.20 | 40.4 |
| 4/27/2015 12:41:28 | 37.40 | 35.00 | 737 | 1.08 | 0.20 | 40.3 |
| 4/27/2015 12:41:29 | 37.73 | 35.33 | 731 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 12:41:29 | 38.06 | 35.66 | 734 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 12:41:30 | 38.39 | 35.99 | 730 | 1.09 | 0.20 | 39.9 |
| 4/27/2015 12:41:30 | 38.71 | 36.31 | 740 | 1.08 | 0.20 | 40.5 |
| 4/27/2015 12:41:31 | 39.04 | 36.64 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 12:41:31 | 39.37 | 36.97 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 12:41:32 | 39.70 | 37.30 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 12:41:32 | 40.03 | 37.63 | 743 | 1.09 | 0.20 | 40.6 |
| 4/27/2015 12:41:33 | 40.35 | 37.95 | 740 | 1.09 | 0.19 | 40.5 |
| 4/27/2015 12:41:34 | 40.68 | 38.28 | 733 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 12:41:34 | 41.01 | 38.61 | 733 | 1.13 | 0.20 | 40.1 |
| 4/27/2015 12:41:35 | 41.34 | 38.94 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 12:41:35 | 41.67 | 39.27 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 12:41:35 | 41.99 | 39.59 | 728 | 1.08 | 0.20 | 39.8 |
| 4/27/2015 12:41:36 | 42.32 | 39.92 | 729 | 1.08 | 0.20 | 39.9 |
| 4/27/2015 12:41:36 | 42.65 | 40.25 | 736 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 12:41:37 | 42.98 | 40.58 | 739 | 1.08 | 0.19 | 40.4 |
| 4/27/2015 12:41:37 | 43.31 | 40.91 | 732 | 1.08 | 0.20 | 40.0 |
| 4/27/2015 12:41:38 | 43.64 | 41.24 | 736 | 1.13 | 0.19 | 40.3 |
| 4/27/2015 12:41:38 | 43.96 | 41.56 | 734 | 1.09 | 0.19 | 40.2 |
| 4/27/2015 12:41:39 | 44.29 | 41.89 | 734 | 1.08 | 0.20 | 40.2 |
| 4/27/2015 12:41:39 | 44.62 | 42.22 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:41:40 | 44.95 | 42.55 | 728 | 1.08 | 0.20 | 39.8 |
| 4/27/2015 12:41:40 | 45.28 | 42.88 | 728 | 1.08 | 0.20 | 39.8 |
| 4/27/2015 12:41:41 | 45.60 | 43.20 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 12:41:41 | 45.93 | 43.53 | 726 | 1.08 | 0.19 | 39.7 |
| 4/27/2015 12:41:42 | 46.26 | 43.86 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 12:41:42 | 46.59 | 44.19 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 12:41:43 | 46.92 | 44.52 | 726 | 1.09 | 0.19 | 39.7 |
| 4/27/2015 12:41:44 | 47.24 | 44.84 | 726 | 1.09 | 0.19 | 39.7 |
| 4/27/2015 12:41:44 | 47.57 | 45.17 | 705 | 1.17 | 0.19 | 38.6 |
| 4/27/2015 12:42:00 | 47.90 | 45.50 | 89 | 1.07 | 1.67 | 4.9 |
| 4/27/2015 12:42:07 | 48.23 | 45.83 | 3 | 1.11 | 0.93 | 0.2 |
| 4/27/2015 12:42:09 | 48.56 | 46.16 | 98 | 1.04 | 1.32 | 5.4 |
| 4/27/2015 12:42:11 | 48.88 | 46.48 | 204 | 1.04 | 1.05 | 11.1 |
| 4/27/2015 12:42:12 | 49.21 | 46.81 | 278 | 1.07 | 0.95 | 15.2 |
| 4/27/2015 12:42:13 | 49.54 | 47.14 | 350 | 1.07 | 0.84 | 19.1 |
| 4/27/2015 12:42:13 | 49.87 | 47.47 | 446 | 1.01 | 0.94 | 24.4 |
| 4/27/2015 12:42:15 | 50.20 | 47.80 | 472 | 1.02 | 0.99 | 25.8 |
| 4/27/2015 12:42:15 | 50.53 | 48.13 | 486 | 1.06 | 1.31 | 26.6 |
| 4/27/2015 12:42:21 | 50.85 | 48.45 | 57 | 1.06 | 0.75 | 3.1 |
| 4/27/2015 12:42:23 | 51.18 | 48.78 | 172 | 1.05 | 1.05 | 9.4 |
| 4/27/2015 12:42:24 | 51.51 | 49.11 | 247 | 1.11 | 1.53 | 13.5 |
| 4/27/2015 12:42:26 | 51.84 | 49.44 | 299 | 1.05 | 1.37 | 16.3 |
| 4/27/2015 12:42:27 | 52.17 | 49.77 | 265 | 1.11 | 1.23 | 14.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:42:28 | 52.49 | 50.09 | 306 | 1.09 | 0.90 | 16.7 |
| 4/27/2015 | 12:42:29 | 52.82 | 50.42 | 325 | 1.03 | 0.87 | 17.8 |
| 4/27/2015 | 12:42:30 | 53.15 | 50.75 | 382 | 1.03 | 0.84 | 20.9 |
| 4/27/2015 | 12:42:31 | 53.48 | 51.08 | 419 | 1.07 | 0.86 | 22.9 |
| 4/27/2015 | 12:42:31 | 53.81 | 51.41 | 436 | 1.03 | 0.91 | 23.8 |
| 4/27/2015 | 12:42:32 | 54.13 | 51.73 | 442 | 1.09 | 0.95 | 24.2 |
| 4/27/2015 | 12:42:33 | 54.46 | 52.06 | 440 | 1.07 | 0.80 | 24.0 |
| 4/27/2015 | 12:42:34 | 54.79 | 52.39 | 457 | 1.03 | 0.77 | 25.0 |
| 4/27/2015 | 12:42:34 | 55.12 | 52.72 | 466 | 1.08 | 0.77 | 25.5 |
| 4/27/2015 | 12:42:35 | 55.45 | 53.05 | 472 | 1.03 | 0.80 | 25.8 |
| 4/27/2015 | 12:42:36 | 55.77 | 53.37 | 489 | 1.11 | 0.77 | 26.7 |
| 4/27/2015 | 12:42:37 | 56.10 | 53.70 | 483 | 1.05 | 0.78 | 26.4 |
| 4/27/2015 | 12:42:38 | 56.43 | 54.03 | 478 | 1.13 | 0.76 | 26.2 |
| 4/27/2015 | 12:42:38 | 56.76 | 54.36 | 481 | 1.09 | 0.85 | 26.3 |
| 4/27/2015 | 12:42:39 | 57.09 | 54.69 | 462 | 1.02 | 1.01 | 25.2 |
| 4/27/2015 | 12:42:40 | 57.41 | 55.01 | 462 | 1.11 | 1.03 | 25.2 |
| 4/27/2015 | 12:42:41 | 57.74 | 55.34 | 452 | 1.03 | 1.00 | 24.7 |
| 4/27/2015 | 12:42:41 | 57.92 | 55.52 | 447 | 0.43 | 0.84 | 24.4 |

## H1021 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 12:39:09

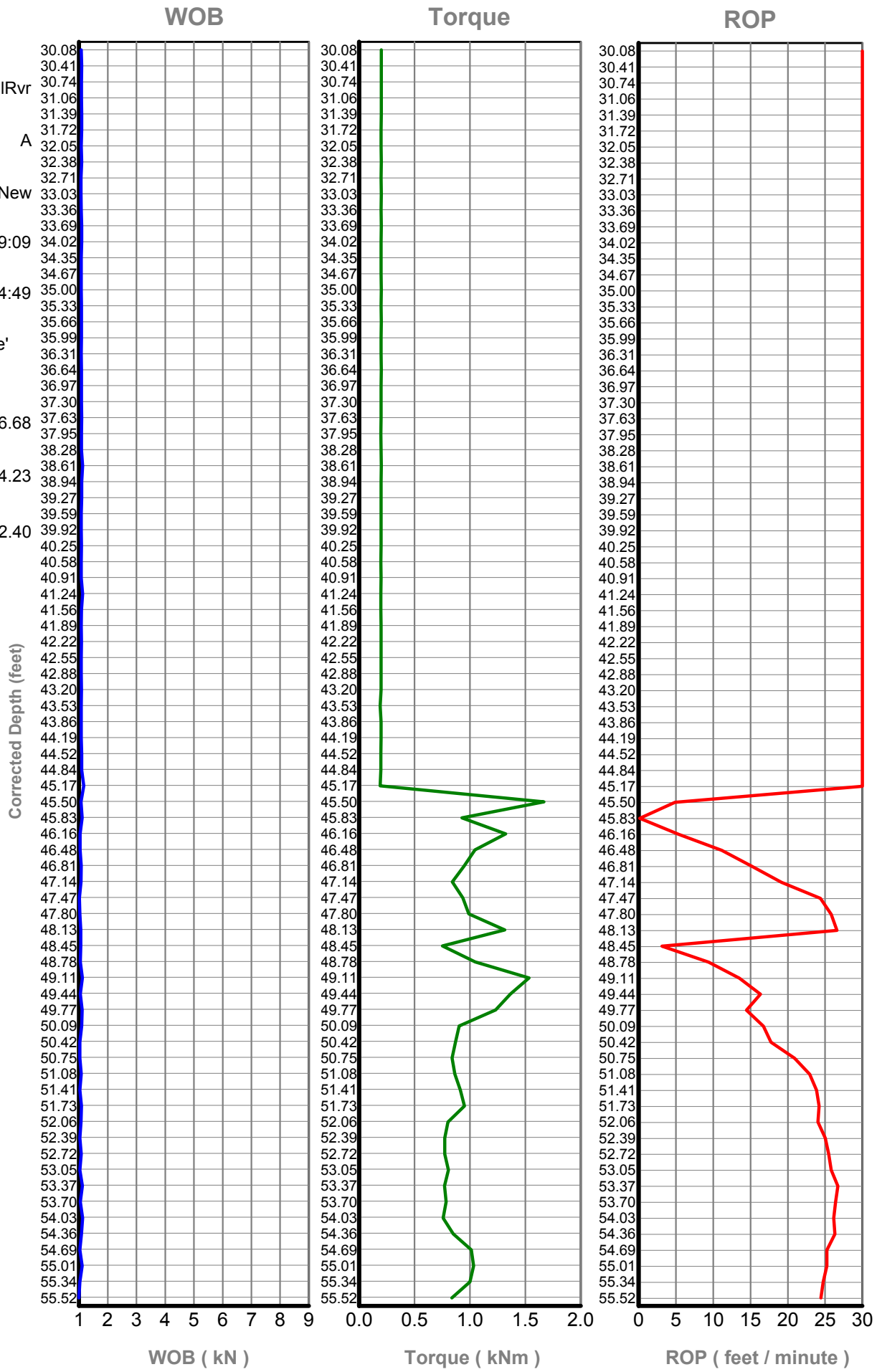
**End Date:**
4/27/2015 12:44:49

**Operator Note:**
'2.4 2.6 a Auto Complete'

**Northing:**
365,106.68

**Easting:**
249,104.23

**Tide (feet):**
2.40



## Hole: H1022 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:41:48 | 32.48 | 30.08 | 1,097 | 0.28 | 0.31 | 60.0 |
| 4/27/2015 12:41:48 | 32.81 | 30.41 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 12:41:49 | 33.14 | 30.74 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 12:41:49 | 33.46 | 31.06 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 12:41:49 | 33.79 | 31.39 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 12:41:49 | 34.12 | 31.72 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 12:41:50 | 34.45 | 32.05 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 12:41:50 | 34.78 | 32.38 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 12:41:50 | 35.11 | 32.71 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 12:41:51 | 35.43 | 33.03 | 1,094 | 0.28 | 0.32 | 59.8 |
| 4/27/2015 12:41:51 | 35.76 | 33.36 | 1,094 | 0.28 | 0.32 | 59.8 |
| 4/27/2015 12:41:52 | 36.09 | 33.69 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 12:41:52 | 36.42 | 34.02 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 12:41:52 | 36.75 | 34.35 | 1,092 | 0.29 | 0.32 | 59.7 |
| 4/27/2015 12:41:53 | 37.07 | 34.67 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 12:41:53 | 37.40 | 35.00 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 12:41:53 | 37.73 | 35.33 | 1,096 | 0.28 | 0.32 | 60.0 |
| 4/27/2015 12:41:54 | 38.06 | 35.66 | 1,112 | 0.33 | 0.32 | 60.8 |
| 4/27/2015 12:41:54 | 38.39 | 35.99 | 1,112 | 0.33 | 0.32 | 60.8 |
| 4/27/2015 12:41:54 | 38.71 | 36.31 | 1,102 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 12:41:55 | 39.04 | 36.64 | 1,102 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 12:41:55 | 39.37 | 36.97 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 12:41:55 | 39.70 | 37.30 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 12:41:56 | 40.03 | 37.63 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 12:41:56 | 40.35 | 37.95 | 1,099 | 0.29 | 0.32 | 60.1 |
| 4/27/2015 12:41:56 | 40.68 | 38.28 | 1,089 | 0.28 | 0.32 | 59.5 |
| 4/27/2015 12:41:57 | 41.01 | 38.61 | 1,089 | 0.28 | 0.32 | 59.5 |
| 4/27/2015 12:41:57 | 41.34 | 38.94 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/27/2015 12:41:57 | 41.67 | 39.27 | 1,096 | 0.27 | 0.32 | 59.9 |
| 4/27/2015 12:41:57 | 41.99 | 39.59 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 12:41:58 | 42.32 | 39.92 | 1,068 | 0.29 | 0.32 | 58.4 |
| 4/27/2015 12:41:58 | 42.65 | 40.25 | 1,068 | 0.29 | 0.32 | 58.4 |
| 4/27/2015 12:41:58 | 42.98 | 40.58 | 1,068 | 0.28 | 0.32 | 58.4 |
| 4/27/2015 12:41:59 | 43.31 | 40.91 | 1,087 | 0.28 | 0.32 | 59.5 |
| 4/27/2015 12:41:59 | 43.64 | 41.24 | 1,087 | 0.28 | 0.32 | 59.5 |
| 4/27/2015 12:41:59 | 43.96 | 41.56 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 12:42:00 | 44.29 | 41.89 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 12:42:00 | 44.62 | 42.22 | 1,078 | 0.29 | 0.32 | 58.9 |
| 4/27/2015 12:42:00 | 44.95 | 42.55 | 1,078 | 0.29 | 0.32 | 58.9 |
| 4/27/2015 12:42:01 | 45.28 | 42.88 | 1,078 | 0.29 | 0.32 | 58.9 |
| 4/27/2015 12:42:01 | 45.60 | 43.20 | 1,099 | 0.29 | 0.32 | 60.1 |
| 4/27/2015 12:42:01 | 45.93 | 43.53 | 1,080 | 0.29 | 0.32 | 59.1 |
| 4/27/2015 12:42:02 | 46.26 | 43.86 | 1,080 | 0.29 | 0.32 | 59.1 |
| 4/27/2015 12:42:02 | 46.59 | 44.19 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 12:42:03 | 46.92 | 44.52 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 12:42:03 | 47.24 | 44.84 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 12:42:03 | 47.57 | 45.17 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/27/2015 12:42:04 | 47.90 | 45.50 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/27/2015 12:42:04 | 48.23 | 45.83 | 1,081 | 0.27 | 0.35 | 59.1 |
| 4/27/2015 12:42:09 | 48.56 | 46.16 | 92 | 2.95 | 0.36 | 5.0 |
| 4/27/2015 12:42:10 | 48.88 | 46.48 | 195 | 3.59 | 0.36 | 10.6 |
| 4/27/2015 12:42:10 | 49.21 | 46.81 | 309 | 4.99 | 0.36 | 16.9 |
| 4/27/2015 12:42:12 | 49.54 | 47.14 | 399 | 4.69 | 0.41 | 21.8 |
| 4/27/2015 12:42:13 | 49.87 | 47.47 | 399 | 5.19 | 0.37 | 21.8 |
| 4/27/2015 12:42:18 | 50.20 | 47.80 | 111 | 4.35 | 0.35 | 6.1 |
| 4/27/2015 12:42:19 | 50.53 | 48.13 | 221 | 3.18 | 0.36 | 12.1 |
| 4/27/2015 12:42:19 | 50.85 | 48.45 | 338 | 2.62 | 0.34 | 18.5 |
| 4/27/2015 12:42:20 | 51.18 | 48.78 | 477 | 2.59 | 0.35 | 26.1 |
| 4/27/2015 12:42:20 | 51.51 | 49.11 | 511 | 2.46 | 0.35 | 27.9 |
| 4/27/2015 12:42:21 | 51.84 | 49.44 | 623 | 2.61 | 0.35 | 34.0 |
| 4/27/2015 12:42:21 | 52.17 | 49.77 | 688 | 2.46 | 0.36 | 37.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:42:22 | 52.49 | 50.09 | 714 | 2.22 | 0.35 | 39.0 |
| 4/27/2015 | 12:42:23 | 52.82 | 50.42 | 723 | 2.15 | 0.35 | 39.5 |
| 4/27/2015 | 12:42:23 | 53.15 | 50.75 | 723 | 2.38 | 0.35 | 39.5 |
| 4/27/2015 | 12:42:24 | 53.48 | 51.08 | 716 | 2.36 | 0.35 | 39.1 |
| 4/27/2015 | 12:42:24 | 53.81 | 51.41 | 723 | 2.29 | 0.34 | 39.5 |
| 4/27/2015 | 12:42:25 | 54.13 | 51.73 | 723 | 2.29 | 0.34 | 39.5 |
| 4/27/2015 | 12:42:25 | 54.46 | 52.06 | 733 | 2.22 | 0.35 | 40.1 |
| 4/27/2015 | 12:42:25 | 54.79 | 52.39 | 721 | 2.33 | 0.36 | 39.5 |
| 4/27/2015 | 12:42:26 | 55.12 | 52.72 | 658 | 1.98 | 0.35 | 36.0 |
| 4/27/2015 | 12:42:27 | 55.45 | 53.05 | 647 | 2.04 | 0.35 | 35.4 |
| 4/27/2015 | 12:42:27 | 55.77 | 53.37 | 641 | 2.23 | 0.35 | 35.0 |
| 4/27/2015 | 12:42:28 | 56.10 | 53.70 | 638 | 2.23 | 0.35 | 34.9 |
| 4/27/2015 | 12:42:28 | 56.43 | 54.03 | 651 | 2.17 | 0.35 | 35.6 |
| 4/27/2015 | 12:42:29 | 56.76 | 54.36 | 701 | 2.50 | 0.36 | 38.3 |
| 4/27/2015 | 12:42:29 | 57.09 | 54.69 | 683 | 2.25 | 0.36 | 37.3 |
| 4/27/2015 | 12:42:30 | 57.41 | 55.01 | 641 | 2.68 | 0.37 | 35.1 |
| 4/27/2015 | 12:42:30 | 57.66 | 55.26 | 606 | 2.59 | 0.37 | 33.1 |

## H1022 - Summary

**Pattern Number:**
AreaH_Lane16-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 12:40:56

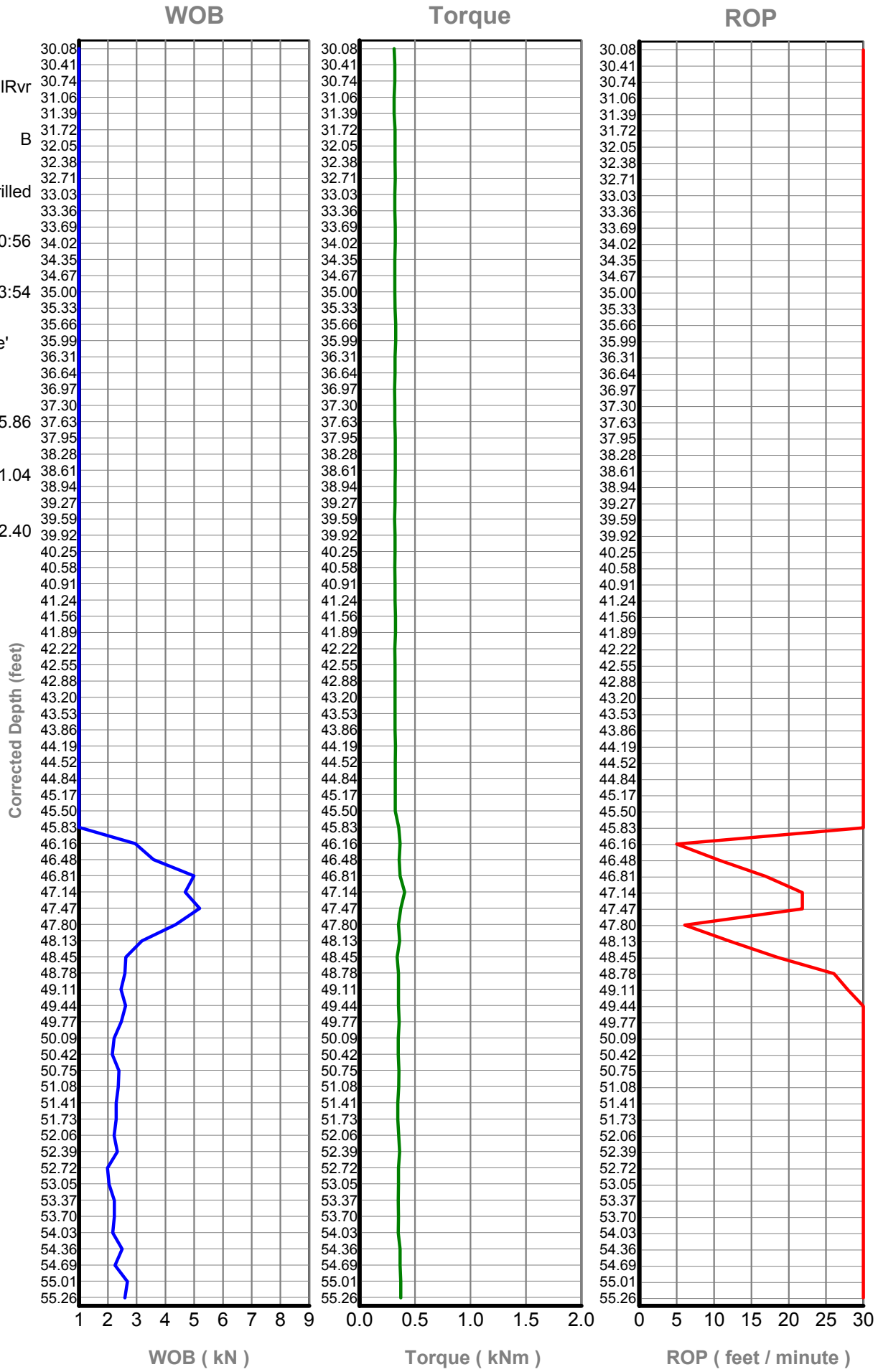
**End Date:**
4/27/2015 12:43:54

**Operator Note:**
'2.4 2.6 b Auto Complete'

**Northing:**
365,155.86

**Easting:**
249,161.04

**Tide (feet):**
2.40



## Hole: H1023 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 12:42:19 | 32.48 | 30.08 | 1,199 | 1.74 | 0.28 | 65.6 |
| 4/27/2015 12:42:19 | 32.81 | 30.41 | 1,199 | 1.74 | 0.28 | 65.6 |
| 4/27/2015 12:42:19 | 33.14 | 30.74 | 1,171 | 1.70 | 0.29 | 64.1 |
| 4/27/2015 12:42:20 | 33.46 | 31.06 | 1,186 | 1.70 | 0.29 | 64.9 |
| 4/27/2015 12:42:20 | 33.79 | 31.39 | 1,186 | 1.70 | 0.29 | 64.9 |
| 4/27/2015 12:42:20 | 34.12 | 31.72 | 1,177 | 1.73 | 0.29 | 64.4 |
| 4/27/2015 12:42:21 | 34.45 | 32.05 | 1,177 | 1.73 | 0.29 | 64.4 |
| 4/27/2015 12:42:21 | 34.78 | 32.38 | 1,180 | 1.71 | 0.28 | 64.5 |
| 4/27/2015 12:42:22 | 35.11 | 32.71 | 1,180 | 1.71 | 0.28 | 64.5 |
| 4/27/2015 12:42:22 | 35.43 | 33.03 | 1,180 | 1.71 | 0.28 | 64.5 |
| 4/27/2015 12:42:22 | 35.76 | 33.36 | 1,183 | 1.73 | 0.26 | 64.7 |
| 4/27/2015 12:42:23 | 36.09 | 33.69 | 1,183 | 1.73 | 0.26 | 64.7 |
| 4/27/2015 12:42:23 | 36.42 | 34.02 | 1,180 | 1.72 | 0.28 | 64.5 |
| 4/27/2015 12:42:23 | 36.75 | 34.35 | 1,180 | 1.72 | 0.28 | 64.5 |
| 4/27/2015 12:42:23 | 37.07 | 34.67 | 1,156 | 1.69 | 0.28 | 63.2 |
| 4/27/2015 12:42:24 | 37.40 | 35.00 | 1,156 | 1.70 | 0.28 | 63.2 |
| 4/27/2015 12:42:24 | 37.73 | 35.33 | 1,156 | 1.70 | 0.28 | 63.2 |
| 4/27/2015 12:42:24 | 38.06 | 35.66 | 1,167 | 1.70 | 0.28 | 63.8 |
| 4/27/2015 12:42:25 | 38.39 | 35.99 | 1,167 | 1.70 | 0.28 | 63.8 |
| 4/27/2015 12:42:25 | 38.71 | 36.31 | 1,155 | 1.72 | 0.28 | 63.1 |
| 4/27/2015 12:42:25 | 39.04 | 36.64 | 1,155 | 1.72 | 0.28 | 63.1 |
| 4/27/2015 12:42:25 | 39.37 | 36.97 | 1,155 | 1.74 | 0.28 | 63.1 |
| 4/27/2015 12:42:26 | 39.70 | 37.30 | 1,166 | 1.72 | 0.28 | 63.8 |
| 4/27/2015 12:42:26 | 40.03 | 37.63 | 1,166 | 1.72 | 0.28 | 63.8 |
| 4/27/2015 12:42:26 | 40.35 | 37.95 | 1,154 | 1.71 | 0.28 | 63.1 |
| 4/27/2015 12:42:27 | 40.68 | 38.28 | 1,154 | 1.71 | 0.28 | 63.1 |
| 4/27/2015 12:42:27 | 41.01 | 38.61 | 1,186 | 1.72 | 0.28 | 64.8 |
| 4/27/2015 12:42:27 | 41.34 | 38.94 | 1,165 | 1.72 | 0.28 | 63.7 |
| 4/27/2015 12:42:28 | 41.67 | 39.27 | 1,165 | 1.72 | 0.28 | 63.7 |
| 4/27/2015 12:42:28 | 41.99 | 39.59 | 1,174 | 1.71 | 0.28 | 64.2 |
| 4/27/2015 12:42:28 | 42.32 | 39.92 | 1,174 | 1.71 | 0.28 | 64.2 |
| 4/27/2015 12:42:28 | 42.65 | 40.25 | 1,174 | 1.74 | 0.28 | 64.2 |
| 4/27/2015 12:42:29 | 42.98 | 40.58 | 1,174 | 1.74 | 0.28 | 64.2 |
| 4/27/2015 12:42:29 | 43.31 | 40.91 | 1,171 | 1.71 | 0.29 | 64.0 |
| 4/27/2015 12:42:29 | 43.64 | 41.24 | 1,168 | 1.70 | 0.29 | 63.9 |
| 4/27/2015 12:42:30 | 43.96 | 41.56 | 1,168 | 1.70 | 0.29 | 63.9 |
| 4/27/2015 12:42:30 | 44.29 | 41.89 | 1,159 | 1.73 | 0.28 | 63.4 |
| 4/27/2015 12:42:30 | 44.62 | 42.22 | 1,159 | 1.73 | 0.28 | 63.4 |
| 4/27/2015 12:42:30 | 44.95 | 42.55 | 1,179 | 1.71 | 0.29 | 64.5 |
| 4/27/2015 12:42:31 | 45.28 | 42.88 | 1,157 | 1.78 | 0.29 | 63.3 |
| 4/27/2015 12:42:43 | 45.60 | 43.20 | 3 | 1.78 | 0.99 | 0.2 |
| 4/27/2015 12:42:44 | 45.93 | 43.53 | 177 | 1.79 | 0.99 | 9.7 |
| 4/27/2015 12:42:44 | 46.26 | 43.86 | 339 | 1.70 | 1.19 | 18.5 |
| 4/27/2015 12:42:45 | 46.59 | 44.19 | 505 | 1.76 | 1.29 | 27.6 |
| 4/27/2015 12:42:46 | 46.92 | 44.52 | 455 | 1.73 | 1.28 | 24.9 |
| 4/27/2015 12:42:47 | 47.24 | 44.84 | 371 | 1.77 | 1.22 | 20.3 |
| 4/27/2015 12:43:12 | 47.57 | 45.17 | 31 | 1.75 | 1.19 | 1.7 |
| 4/27/2015 12:43:12 | 47.90 | 45.50 | 140 | 1.75 | 1.13 | 7.6 |
| 4/27/2015 12:43:13 | 48.23 | 45.83 | 278 | 1.79 | 1.07 | 15.2 |
| 4/27/2015 12:43:14 | 48.56 | 46.16 | 435 | 1.77 | 0.96 | 23.8 |
| 4/27/2015 12:43:34 | 48.88 | 46.48 | 0 | 1.77 | 0.94 | 0.0 |
| 4/27/2015 12:43:35 | 49.21 | 46.81 | 100 | 1.76 | 1.24 | 5.5 |
| 4/27/2015 12:44:08 | 49.54 | 47.14 | 6 | 1.72 | 1.29 | 0.3 |
| 4/27/2015 12:44:09 | 49.87 | 47.47 | 126 | 1.76 | 1.28 | 6.9 |
| 4/27/2015 12:44:10 | 50.20 | 47.80 | 276 | 1.70 | 1.24 | 15.1 |
| 4/27/2015 12:44:11 | 50.53 | 48.13 | 370 | 1.76 | 1.46 | 20.2 |
| 4/27/2015 12:44:12 | 50.85 | 48.45 | 370 | 1.74 | 1.45 | 20.2 |
| 4/27/2015 12:44:13 | 51.18 | 48.78 | 370 | 1.79 | 1.27 | 20.2 |
| 4/27/2015 12:44:46 | 51.51 | 49.11 | 0 | 1.76 | 1.04 | 0.0 |
| 4/27/2015 12:44:46 | 51.84 | 49.44 | 106 | 1.81 | 0.81 | 5.8 |
| 4/27/2015 12:44:47 | 52.17 | 49.77 | 288 | 1.75 | 0.80 | 15.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 12:44:48 | 52.49 | 50.09 | 288 | 1.75 | 0.80 | 15.8 |
| 4/27/2015 | 12:44:48 | 52.82 | 50.42 | 462 | 1.81 | 0.81 | 25.3 |
| 4/27/2015 | 12:44:48 | 53.15 | 50.75 | 636 | 1.74 | 0.80 | 34.8 |
| 4/27/2015 | 12:44:49 | 53.48 | 51.08 | 799 | 1.83 | 0.81 | 43.7 |
| 4/27/2015 | 12:44:49 | 53.81 | 51.41 | 856 | 1.79 | 0.81 | 46.8 |
| 4/27/2015 | 12:44:50 | 54.13 | 51.73 | 838 | 1.86 | 0.82 | 45.8 |
| 4/27/2015 | 12:45:00 | 54.46 | 52.06 | 0 | 1.76 | 0.79 | 0.0 |
| 4/27/2015 | 12:45:01 | 54.79 | 52.39 | 121 | 1.76 | 0.97 | 6.6 |
| 4/27/2015 | 12:45:02 | 55.12 | 52.72 | 304 | 1.73 | 1.09 | 16.6 |
| 4/27/2015 | 12:45:03 | 55.45 | 53.05 | 421 | 1.76 | 0.92 | 23.0 |
| 4/27/2015 | 12:45:03 | 55.77 | 53.37 | 454 | 1.77 | 0.81 | 24.8 |
| 4/27/2015 | 12:45:04 | 56.10 | 53.70 | 515 | 1.75 | 0.81 | 28.1 |
| 4/27/2015 | 12:45:04 | 56.43 | 54.03 | 515 | 1.75 | 0.81 | 28.1 |
| 4/27/2015 | 12:45:04 | 56.76 | 54.36 | 636 | 1.77 | 0.81 | 34.8 |
| 4/27/2015 | 12:45:05 | 57.09 | 54.69 | 765 | 1.76 | 0.82 | 41.8 |
| 4/27/2015 | 12:45:05 | 57.41 | 55.01 | 868 | 1.76 | 0.83 | 47.4 |
| 4/27/2015 | 12:45:06 | 57.74 | 55.34 | 868 | 1.76 | 0.83 | 47.4 |
| 4/27/2015 | 12:45:06 | 57.94 | 55.54 | 899 | 1.88 | 1.10 | 49.2 |

## H1023 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/27/2015 12:41:19

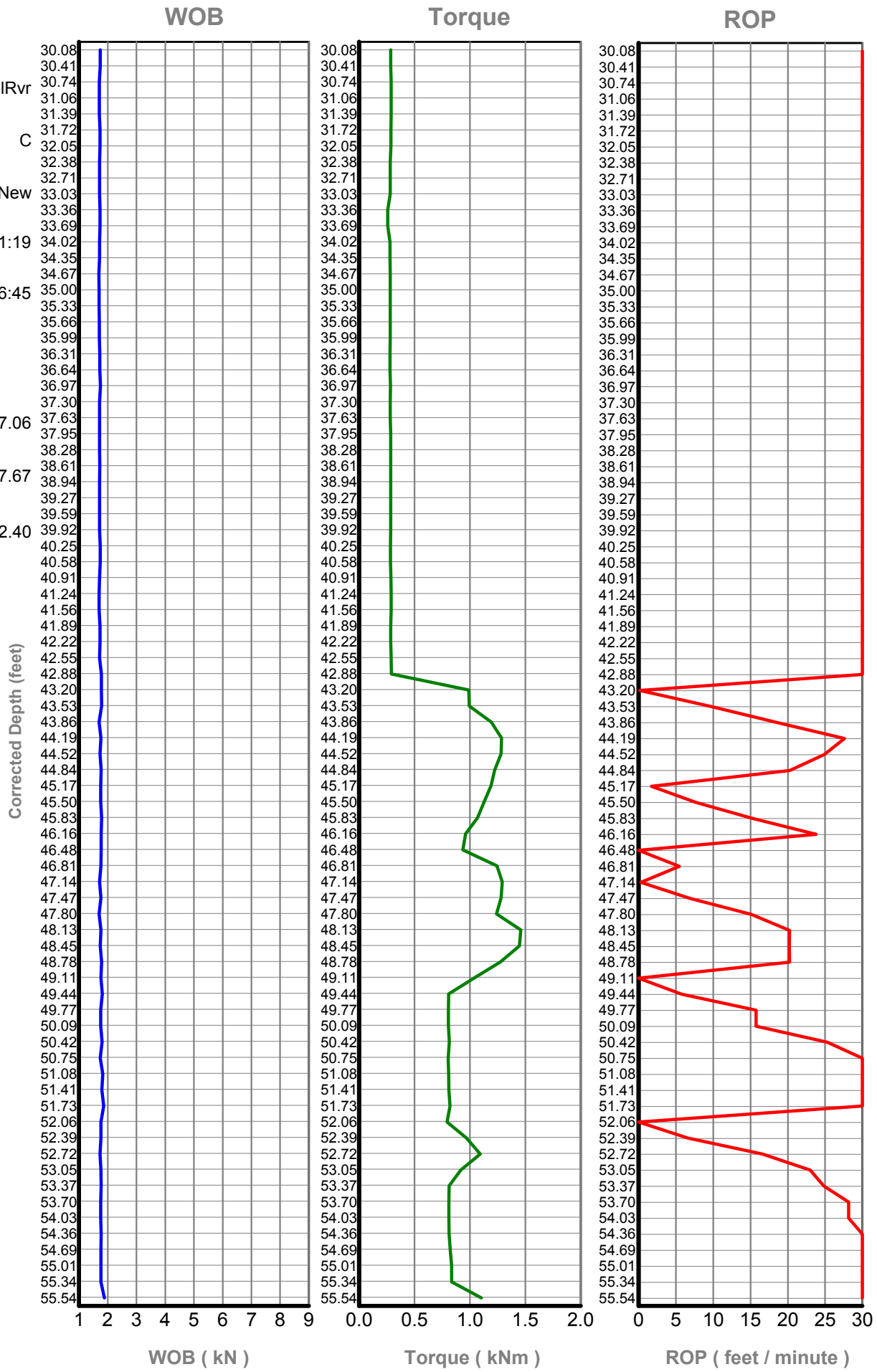
**End Date:**
4/27/2015 12:46:45

**Operator Note:**
'2.4 2..6 C Auto Complete'

**Northing:**
365,207.06

**Easting:**
249,217.67

**Tide (feet):**
2.40



## Hole: H103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:18:32 | 31.17 | 30.27 | 966 | 0.18 | 0.31 | 52.8 |
| 4/26/2015 1:18:32 | 31.50 | 30.60 | 963 | 0.18 | 0.31 | 52.6 |
| 4/26/2015 1:18:33 | 31.82 | 30.92 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:33 | 32.15 | 31.25 | 969 | 0.18 | 0.31 | 53.0 |
| 4/26/2015 1:18:34 | 32.48 | 31.58 | 969 | 0.18 | 0.31 | 53.0 |
| 4/26/2015 1:18:34 | 32.81 | 31.91 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:34 | 33.14 | 32.24 | 966 | 0.18 | 0.31 | 52.8 |
| 4/26/2015 1:18:35 | 33.46 | 32.56 | 966 | 0.18 | 0.31 | 52.8 |
| 4/26/2015 1:18:35 | 33.79 | 32.89 | 968 | 0.18 | 0.31 | 53.0 |
| 4/26/2015 1:18:35 | 34.12 | 33.22 | 974 | 0.19 | 0.31 | 53.3 |
| 4/26/2015 1:18:36 | 34.45 | 33.55 | 974 | 0.19 | 0.31 | 53.3 |
| 4/26/2015 1:18:36 | 34.78 | 33.88 | 971 | 0.19 | 0.31 | 53.1 |
| 4/26/2015 1:18:36 | 35.11 | 34.21 | 971 | 0.19 | 0.31 | 53.1 |
| 4/26/2015 1:18:37 | 35.43 | 34.53 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:37 | 35.76 | 34.86 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:37 | 36.09 | 35.19 | 968 | 0.18 | 0.31 | 53.0 |
| 4/26/2015 1:18:38 | 36.42 | 35.52 | 963 | 0.18 | 0.31 | 52.6 |
| 4/26/2015 1:18:38 | 36.75 | 35.85 | 963 | 0.18 | 0.31 | 52.6 |
| 4/26/2015 1:18:38 | 37.07 | 36.17 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:39 | 37.40 | 36.50 | 957 | 0.18 | 0.31 | 52.3 |
| 4/26/2015 1:18:39 | 37.73 | 36.83 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:40 | 38.06 | 37.16 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:40 | 38.39 | 37.49 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:40 | 38.71 | 37.81 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:41 | 39.04 | 38.14 | 960 | 0.18 | 0.31 | 52.5 |
| 4/26/2015 1:18:41 | 39.37 | 38.47 | 960 | 0.19 | 0.31 | 52.5 |
| 4/26/2015 1:18:41 | 39.70 | 38.80 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:42 | 40.03 | 39.13 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:43 | 40.35 | 39.45 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:43 | 40.68 | 39.78 | 974 | 0.18 | 0.31 | 53.3 |
| 4/26/2015 1:18:43 | 41.01 | 40.11 | 974 | 0.18 | 0.31 | 53.3 |
| 4/26/2015 1:18:44 | 41.34 | 40.44 | 974 | 0.18 | 0.31 | 53.3 |
| 4/26/2015 1:18:44 | 41.67 | 40.77 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:44 | 41.99 | 41.09 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:45 | 42.32 | 41.42 | 971 | 0.18 | 0.31 | 53.1 |
| 4/26/2015 1:18:45 | 42.65 | 41.75 | 969 | 0.22 | 0.31 | 53.0 |
| 4/26/2015 1:18:45 | 42.98 | 42.08 | 960 | 0.17 | 0.33 | 52.5 |
| 4/26/2015 1:18:46 | 43.31 | 42.41 | 945 | 0.16 | 0.36 | 51.7 |
| 4/26/2015 1:19:07 | 43.64 | 42.74 | 66 | 5.37 | 0.38 | 3.6 |
| 4/26/2015 1:19:14 | 43.96 | 43.06 | 26 | 3.59 | 0.36 | 1.4 |
| 4/26/2015 1:19:20 | 44.29 | 43.39 | 6 | 3.48 | 0.36 | 0.3 |
| 4/26/2015 1:19:38 | 44.62 | 43.72 | 10 | 3.30 | 0.38 | 0.6 |
| 4/26/2015 1:19:41 | 44.95 | 44.05 | 107 | 3.74 | 0.40 | 5.9 |
| 4/26/2015 1:19:45 | 45.28 | 44.38 | 118 | 8.06 | 0.39 | 6.4 |
| 4/26/2015 1:19:47 | 45.60 | 44.70 | 162 | 4.19 | 0.37 | 8.8 |
| 4/26/2015 1:19:49 | 45.93 | 45.03 | 194 | 4.50 | 0.35 | 10.6 |
| 4/26/2015 1:19:50 | 46.26 | 45.36 | 211 | 5.52 | 0.37 | 11.5 |
| 4/26/2015 1:20:00 | 46.59 | 45.69 | 0 | 3.74 | 0.36 | 0.0 |
| 4/26/2015 1:20:01 | 46.92 | 46.02 | 151 | 3.73 | 0.36 | 8.3 |
| 4/26/2015 1:20:02 | 47.24 | 46.34 | 328 | 3.48 | 0.36 | 17.9 |
| 4/26/2015 1:20:03 | 47.57 | 46.67 | 414 | 3.56 | 0.36 | 22.6 |
| 4/26/2015 1:20:04 | 47.90 | 47.00 | 419 | 4.51 | 0.36 | 22.9 |
| 4/26/2015 1:20:05 | 48.23 | 47.33 | 415 | 2.74 | 0.35 | 22.7 |
| 4/26/2015 1:20:06 | 48.56 | 47.66 | 427 | 2.52 | 0.35 | 23.3 |
| 4/26/2015 1:20:38 | 48.88 | 47.98 | 44 | 2.52 | 0.35 | 2.4 |
| 4/26/2015 1:20:39 | 49.21 | 48.31 | 150 | 2.77 | 0.35 | 8.2 |
| 4/26/2015 1:20:40 | 49.54 | 48.64 | 358 | 2.90 | 0.37 | 19.6 |
| 4/26/2015 1:20:40 | 49.87 | 48.97 | 435 | 2.58 | 0.35 | 23.8 |
| 4/26/2015 1:20:41 | 50.20 | 49.30 | 491 | 2.88 | 0.36 | 26.9 |
| 4/26/2015 1:20:42 | 50.53 | 49.63 | 427 | 3.28 | 0.37 | 23.3 |
| 4/26/2015 1:20:43 | 50.85 | 49.95 | 350 | 3.20 | 0.37 | 19.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 1:20:46 | 51.18 | 50.28 | 174 | 4.00 | 0.38 | 9.5 |
| 4/26/2015 | 1:20:49 | 51.51 | 50.61 | 150 | 3.75 | 0.38 | 8.2 |
| 4/26/2015 | 1:22:36 | 51.84 | 50.94 | 65 | 7.68 | 0.40 | 3.6 |
| 4/26/2015 | 1:22:42 | 52.17 | 51.27 | 74 | 2.94 | 0.40 | 4.0 |
| 4/26/2015 | 1:22:46 | 52.49 | 51.59 | 87 | 3.40 | 0.40 | 4.7 |
| 4/26/2015 | 1:22:50 | 52.82 | 51.92 | 77 | 3.10 | 0.39 | 4.2 |
| 4/26/2015 | 1:22:56 | 53.15 | 52.25 | 64 | 3.83 | 0.39 | 3.5 |
| 4/26/2015 | 1:23:01 | 53.48 | 52.58 | 55 | 3.58 | 0.40 | 3.0 |
| 4/26/2015 | 1:23:08 | 53.81 | 52.91 | 52 | 3.26 | 0.40 | 2.8 |
| 4/26/2015 | 1:23:13 | 54.03 | 53.13 | 46 | 3.47 | 0.40 | 2.5 |

## H103 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:15:43

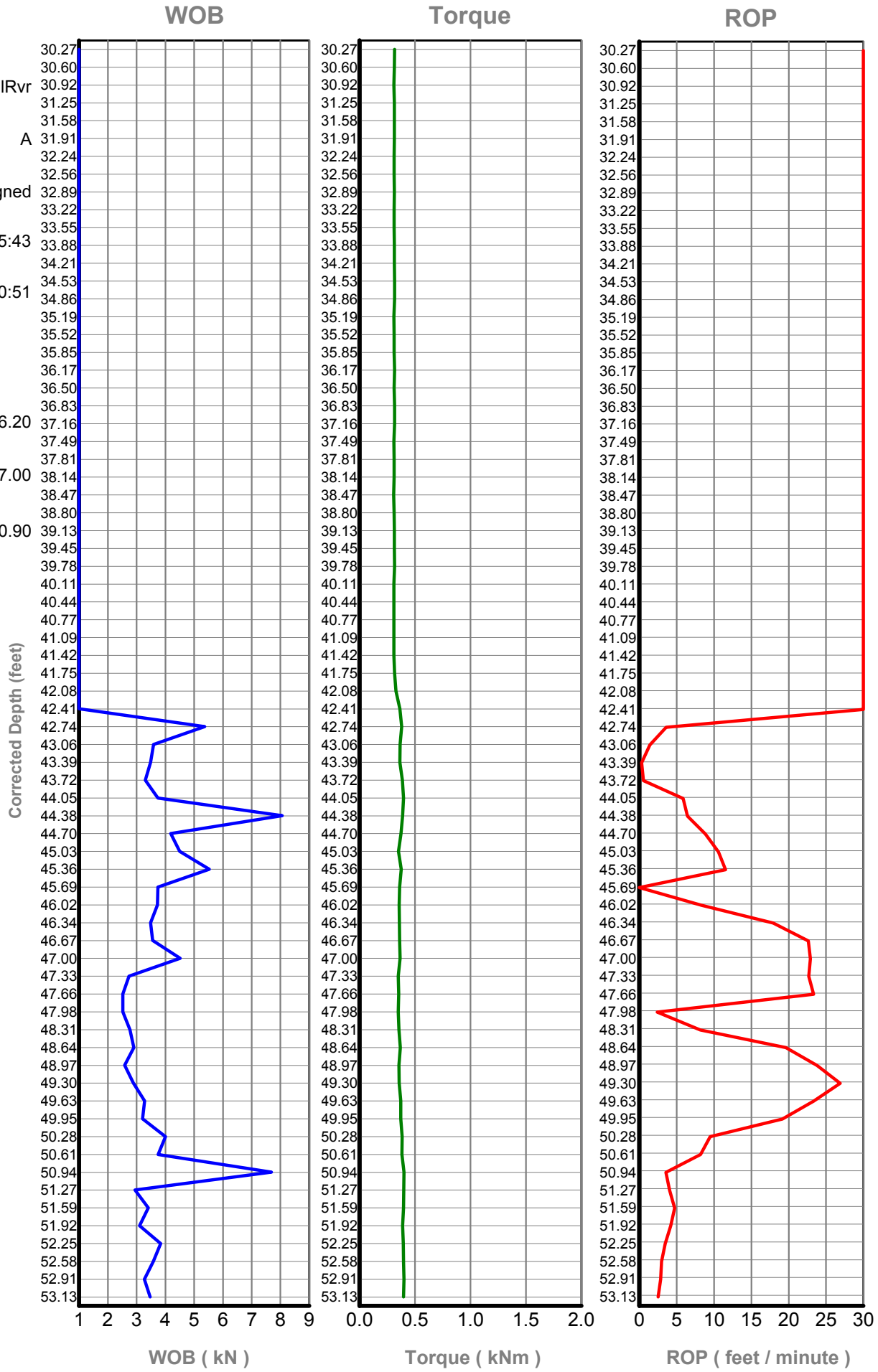
**End Date:**
4/26/2015 1:30:51

**Operator Note:**
'0.9 1 b Auto Complete'

**Northing:**
366,336.20

**Easting:**
250,147.00

**Tide (feet):**
0.90



## Hole: H104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:10:36 | 31.17 | 30.17 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:36 | 31.50 | 30.50 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:36 | 31.82 | 30.82 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:37 | 32.15 | 31.15 | 989 | 0.18 | 0.31 | 54.1 |
| 4/26/2015 1:10:37 | 32.48 | 31.48 | 994 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:38 | 32.81 | 31.81 | 994 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:38 | 33.14 | 32.14 | 991 | 0.18 | 0.31 | 54.2 |
| 4/26/2015 1:10:38 | 33.46 | 32.46 | 1,003 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:39 | 33.79 | 32.79 | 1,003 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:39 | 34.12 | 33.12 | 997 | 0.18 | 0.31 | 54.5 |
| 4/26/2015 1:10:39 | 34.45 | 33.45 | 1,007 | 0.18 | 0.31 | 55.1 |
| 4/26/2015 1:10:40 | 34.78 | 33.78 | 1,007 | 0.18 | 0.31 | 55.1 |
| 4/26/2015 1:10:40 | 35.11 | 34.11 | 1,004 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:40 | 35.43 | 34.43 | 1,004 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:41 | 35.76 | 34.76 | 1,004 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:41 | 36.09 | 35.09 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:41 | 36.42 | 35.42 | 998 | 0.18 | 0.31 | 54.6 |
| 4/26/2015 1:10:42 | 36.75 | 35.75 | 998 | 0.18 | 0.31 | 54.6 |
| 4/26/2015 1:10:42 | 37.07 | 36.07 | 980 | 0.18 | 0.31 | 53.6 |
| 4/26/2015 1:10:42 | 37.40 | 36.40 | 989 | 0.18 | 0.31 | 54.1 |
| 4/26/2015 1:10:43 | 37.73 | 36.73 | 986 | 0.18 | 0.31 | 53.9 |
| 4/26/2015 1:10:44 | 38.06 | 37.06 | 986 | 0.18 | 0.31 | 53.9 |
| 4/26/2015 1:10:44 | 38.39 | 37.39 | 989 | 0.18 | 0.31 | 54.1 |
| 4/26/2015 1:10:44 | 38.71 | 37.71 | 994 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:45 | 39.04 | 38.04 | 994 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:45 | 39.37 | 38.37 | 1,000 | 0.18 | 0.30 | 54.7 |
| 4/26/2015 1:10:45 | 39.70 | 38.70 | 1,000 | 0.18 | 0.31 | 54.7 |
| 4/26/2015 1:10:46 | 40.03 | 39.03 | 1,000 | 0.18 | 0.31 | 54.7 |
| 4/26/2015 1:10:46 | 40.35 | 39.35 | 1,003 | 0.18 | 0.31 | 54.8 |
| 4/26/2015 1:10:46 | 40.68 | 39.68 | 997 | 0.18 | 0.31 | 54.5 |
| 4/26/2015 1:10:47 | 41.01 | 40.01 | 997 | 0.18 | 0.31 | 54.5 |
| 4/26/2015 1:10:47 | 41.34 | 40.34 | 1,003 | 0.18 | 0.31 | 54.9 |
| 4/26/2015 1:10:47 | 41.67 | 40.67 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:48 | 41.99 | 40.99 | 995 | 0.18 | 0.31 | 54.4 |
| 4/26/2015 1:10:48 | 42.32 | 41.32 | 1,001 | 0.17 | 0.31 | 54.7 |
| 4/26/2015 1:10:48 | 42.65 | 41.65 | 993 | 0.18 | 0.31 | 54.3 |
| 4/26/2015 1:10:49 | 42.98 | 41.98 | 1,011 | 0.18 | 0.30 | 55.3 |
| 4/26/2015 1:10:49 | 43.31 | 42.31 | 1,011 | 0.18 | 0.30 | 55.3 |
| 4/26/2015 1:10:49 | 43.64 | 42.64 | 999 | 0.18 | 0.31 | 54.6 |
| 4/26/2015 1:10:50 | 43.96 | 42.96 | 993 | 0.16 | 0.36 | 54.3 |
| 4/26/2015 1:11:06 | 44.29 | 43.29 | 35 | 3.45 | 0.37 | 1.9 |
| 4/26/2015 1:11:16 | 44.62 | 43.62 | 26 | 3.89 | 0.38 | 1.4 |
| 4/26/2015 1:11:19 | 44.95 | 43.95 | 99 | 3.59 | 0.38 | 5.4 |
| 4/26/2015 1:11:23 | 45.28 | 44.28 | 90 | 3.89 | 0.38 | 4.9 |
| 4/26/2015 1:11:27 | 45.60 | 44.60 | 95 | 4.04 | 0.38 | 5.2 |
| 4/26/2015 1:11:29 | 45.93 | 44.93 | 145 | 2.99 | 0.39 | 7.9 |
| 4/26/2015 1:11:34 | 46.26 | 45.26 | 67 | 3.30 | 0.44 | 3.6 |
| 4/26/2015 1:11:39 | 46.59 | 45.59 | 92 | 3.26 | 0.38 | 5.1 |
| 4/26/2015 1:11:42 | 46.92 | 45.92 | 95 | 3.55 | 0.39 | 5.2 |
| 4/26/2015 1:11:47 | 47.24 | 46.24 | 84 | 3.70 | 0.39 | 4.6 |
| 4/26/2015 1:11:51 | 47.57 | 46.57 | 92 | 3.77 | 0.38 | 5.1 |
| 4/26/2015 1:11:55 | 47.90 | 46.90 | 71 | 3.27 | 0.39 | 3.9 |
| 4/26/2015 1:11:59 | 48.23 | 47.23 | 93 | 3.24 | 0.38 | 5.1 |
| 4/26/2015 1:12:04 | 48.56 | 47.56 | 81 | 3.49 | 0.38 | 4.4 |
| 4/26/2015 1:12:09 | 48.88 | 47.88 | 67 | 3.21 | 0.39 | 3.6 |
| 4/26/2015 1:12:14 | 49.21 | 48.21 | 75 | 3.72 | 0.39 | 4.1 |
| 4/26/2015 1:12:19 | 49.54 | 48.54 | 75 | 3.45 | 0.38 | 4.1 |
| 4/26/2015 1:12:23 | 49.87 | 48.87 | 81 | 3.79 | 0.38 | 4.4 |
| 4/26/2015 1:12:28 | 50.20 | 49.20 | 84 | 4.21 | 0.39 | 4.6 |
| 4/26/2015 1:12:33 | 50.53 | 49.53 | 52 | 3.12 | 0.39 | 2.8 |
| 4/26/2015 1:12:41 | 50.85 | 49.85 | 49 | 2.94 | 0.39 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 1:12:47 | 51.18 | 50.18 | 55 | 3.17 | 0.39 | 3.0 |
| 4/26/2015 | 1:12:52 | 51.43 | 50.43 | 58 | 3.49 | 0.40 | 3.2 |

## H104 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:07:50

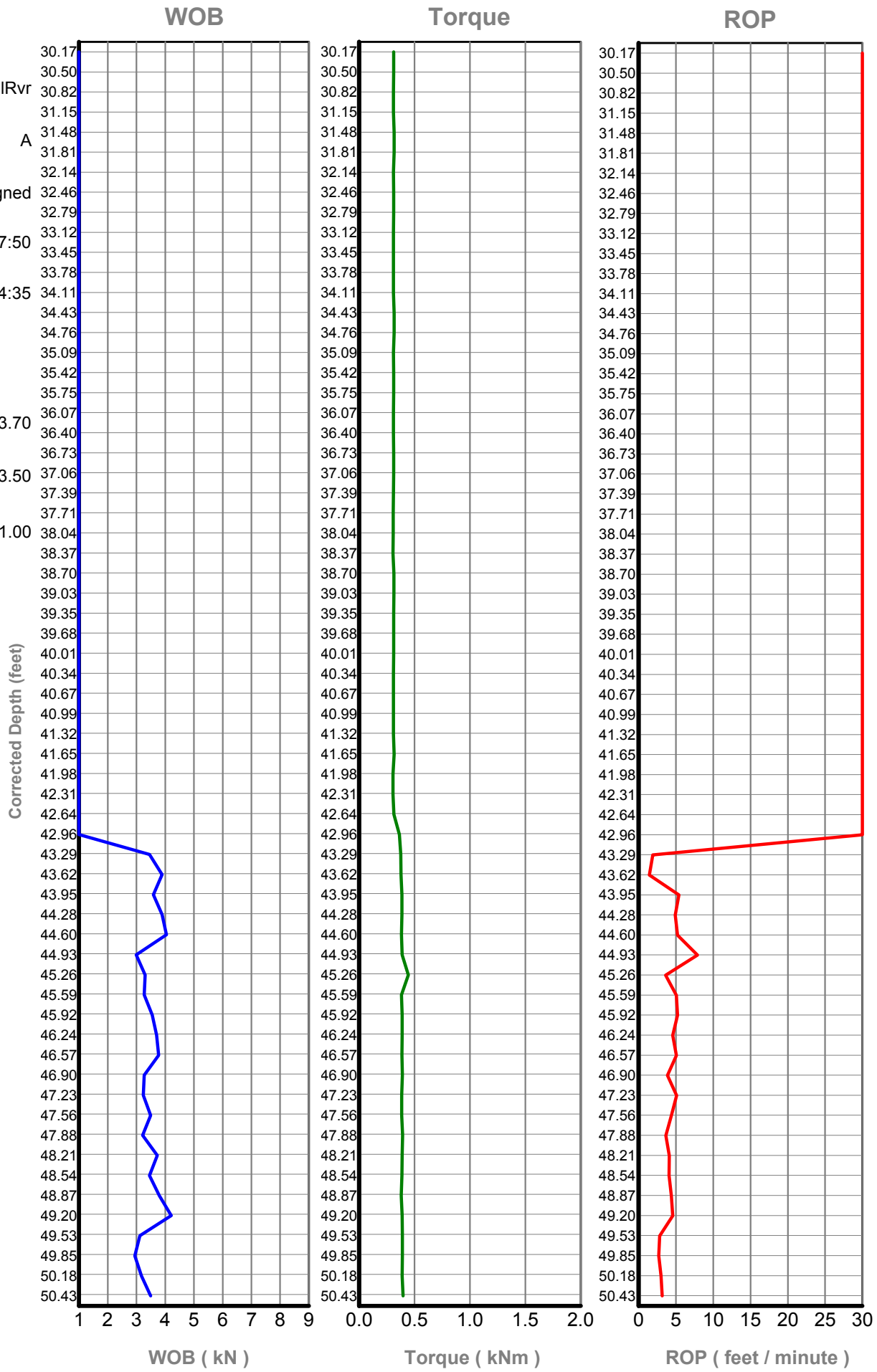
**End Date:**
4/26/2015 1:14:35

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
366,373.70

**Easting:**
250,193.50

**Tide (feet):**
1.00



## Hole: H105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:11:55 | 31.17 | 30.27 | 541 | 1.80 | 0.16 | 29.6 |
| 4/26/2015 1:11:56 | 31.50 | 30.60 | 551 | 1.80 | 0.16 | 30.1 |
| 4/26/2015 1:11:57 | 31.82 | 30.92 | 541 | 1.82 | 0.16 | 29.6 |
| 4/26/2015 1:11:57 | 32.15 | 31.25 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 1:11:58 | 32.48 | 31.58 | 545 | 1.79 | 0.16 | 29.8 |
| 4/26/2015 1:11:59 | 32.81 | 31.91 | 532 | 1.81 | 0.14 | 29.1 |
| 4/26/2015 1:11:59 | 33.14 | 32.24 | 535 | 1.79 | 0.16 | 29.3 |
| 4/26/2015 1:12:00 | 33.46 | 32.56 | 535 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 1:12:01 | 33.79 | 32.89 | 531 | 1.81 | 0.16 | 29.0 |
| 4/26/2015 1:12:01 | 34.12 | 33.22 | 531 | 1.79 | 0.16 | 29.0 |
| 4/26/2015 1:12:02 | 34.45 | 33.55 | 528 | 1.80 | 0.16 | 28.9 |
| 4/26/2015 1:12:02 | 34.78 | 33.88 | 528 | 1.83 | 0.17 | 28.9 |
| 4/26/2015 1:12:03 | 35.11 | 34.21 | 541 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 1:12:04 | 35.43 | 34.53 | 529 | 1.80 | 0.16 | 28.9 |
| 4/26/2015 1:12:05 | 35.76 | 34.86 | 529 | 1.80 | 0.16 | 28.9 |
| 4/26/2015 1:12:05 | 36.09 | 35.19 | 544 | 1.80 | 0.16 | 29.8 |
| 4/26/2015 1:12:06 | 36.42 | 35.52 | 535 | 1.79 | 0.17 | 29.3 |
| 4/26/2015 1:12:07 | 36.75 | 35.85 | 538 | 1.80 | 0.16 | 29.4 |
| 4/26/2015 1:12:07 | 37.07 | 36.17 | 530 | 1.80 | 0.16 | 29.0 |
| 4/26/2015 1:12:08 | 37.40 | 36.50 | 533 | 1.82 | 0.16 | 29.2 |
| 4/26/2015 1:12:09 | 37.73 | 36.83 | 543 | 1.79 | 0.16 | 29.7 |
| 4/26/2015 1:12:09 | 38.06 | 37.16 | 543 | 1.81 | 0.16 | 29.7 |
| 4/26/2015 1:12:10 | 38.39 | 37.49 | 536 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 1:12:11 | 38.71 | 37.81 | 544 | 1.80 | 0.16 | 29.8 |
| 4/26/2015 1:12:11 | 39.04 | 38.14 | 541 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 1:12:12 | 39.37 | 38.47 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 1:12:12 | 39.70 | 38.80 | 532 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 1:12:13 | 40.03 | 39.13 | 531 | 1.80 | 0.16 | 29.0 |
| 4/26/2015 1:12:14 | 40.35 | 39.45 | 534 | 1.81 | 0.16 | 29.2 |
| 4/26/2015 1:12:14 | 40.68 | 39.78 | 537 | 1.81 | 0.16 | 29.4 |
| 4/26/2015 1:12:15 | 41.01 | 40.11 | 543 | 1.80 | 0.16 | 29.7 |
| 4/26/2015 1:12:16 | 41.34 | 40.44 | 526 | 1.80 | 0.16 | 28.8 |
| 4/26/2015 1:12:17 | 41.67 | 40.77 | 539 | 1.81 | 0.16 | 29.5 |
| 4/26/2015 1:12:17 | 41.99 | 41.09 | 536 | 1.80 | 0.16 | 29.3 |
| 4/26/2015 1:12:18 | 42.32 | 41.42 | 533 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 1:12:19 | 42.65 | 41.75 | 538 | 1.82 | 0.16 | 29.4 |
| 4/26/2015 1:12:19 | 42.98 | 42.08 | 535 | 1.83 | 0.16 | 29.3 |
| 4/26/2015 1:12:20 | 43.31 | 42.41 | 535 | 1.79 | 0.16 | 29.3 |
| 4/26/2015 1:12:21 | 43.64 | 42.74 | 538 | 1.83 | 0.16 | 29.4 |
| 4/26/2015 1:12:21 | 43.96 | 43.06 | 541 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 1:12:22 | 44.29 | 43.39 | 538 | 1.74 | 0.16 | 29.4 |
| 4/26/2015 1:12:53 | 44.62 | 43.72 | 31 | 1.80 | 1.21 | 1.7 |
| 4/26/2015 1:13:03 | 44.95 | 44.05 | 39 | 1.81 | 1.15 | 2.1 |
| 4/26/2015 1:13:14 | 45.28 | 44.38 | 33 | 1.81 | 1.08 | 1.8 |
| 4/26/2015 1:13:21 | 45.50 | 44.60 | 34 | 1.80 | 1.12 | 1.9 |

## H105 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:10:30

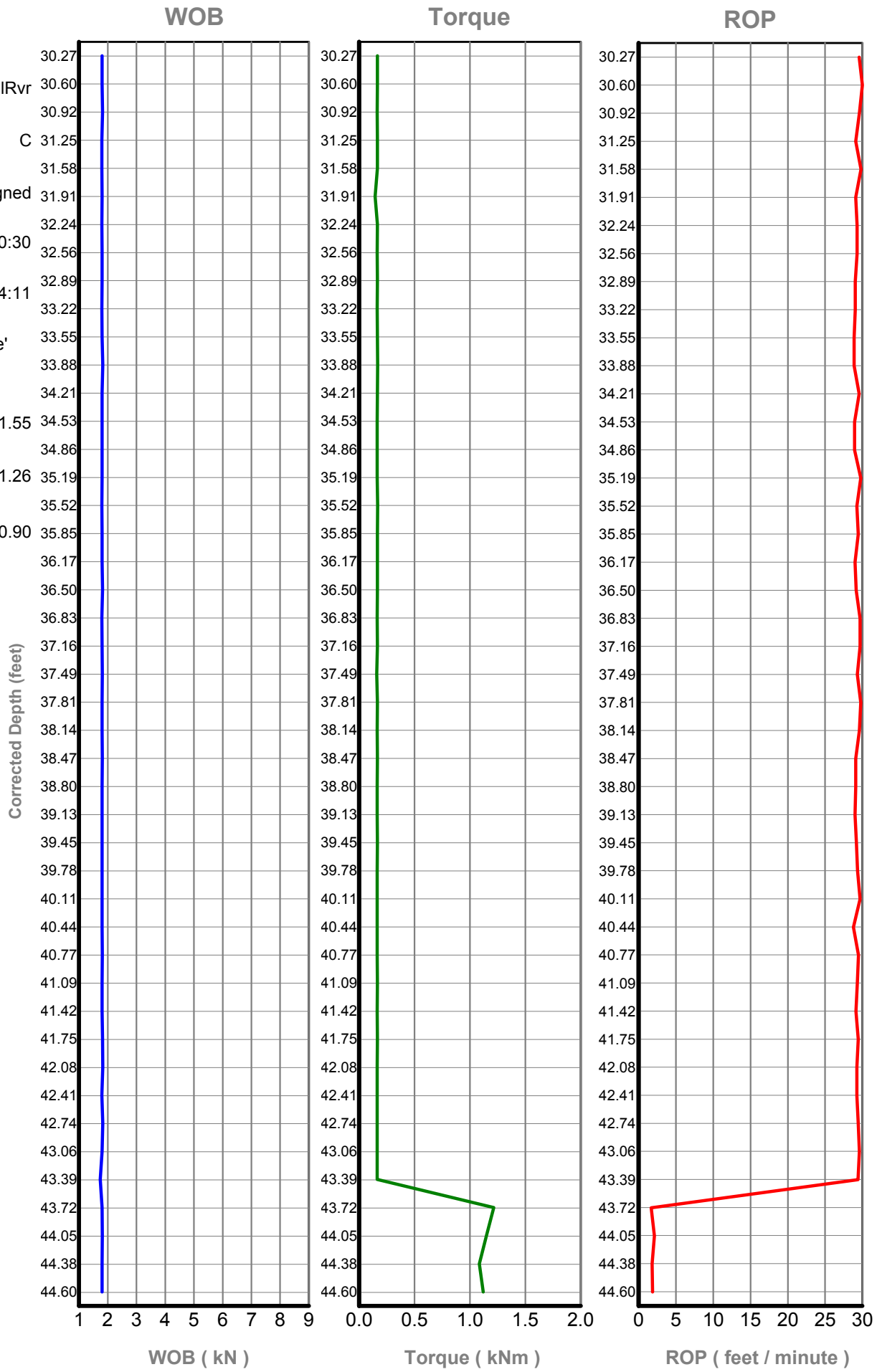
**End Date:**
4/26/2015 1:14:11

**Operator Note:**
'0.9 1.1 c Auto Complete'

**Northing:**
366,421.55

**Easting:**
250,251.26

**Tide (feet):**
0.90



## Hole: H106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:16:55 | 33.46 | 30.16 | 902 | 0.24 | 0.34 | 49.3 |
| 4/25/2015 22:16:55 | 33.79 | 30.49 | 902 | 0.24 | 0.33 | 49.3 |
| 4/25/2015 22:16:56 | 34.12 | 30.82 | 896 | 0.23 | 0.34 | 49.0 |
| 4/25/2015 22:16:56 | 34.45 | 31.15 | 895 | 0.24 | 0.33 | 49.0 |
| 4/25/2015 22:16:57 | 34.78 | 31.48 | 895 | 0.24 | 0.33 | 49.0 |
| 4/25/2015 22:16:57 | 35.11 | 31.81 | 885 | 0.23 | 0.33 | 48.4 |
| 4/25/2015 22:16:57 | 35.43 | 32.13 | 887 | 0.22 | 0.33 | 48.5 |
| 4/25/2015 22:16:58 | 35.76 | 32.46 | 882 | 0.23 | 0.34 | 48.2 |
| 4/25/2015 22:16:58 | 36.09 | 32.79 | 882 | 0.23 | 0.34 | 48.2 |
| 4/25/2015 22:16:58 | 36.42 | 33.12 | 882 | 0.23 | 0.34 | 48.2 |
| 4/25/2015 22:16:59 | 36.75 | 33.45 | 877 | 0.24 | 0.33 | 47.9 |
| 4/25/2015 22:17:00 | 37.07 | 33.77 | 888 | 0.23 | 0.33 | 48.5 |
| 4/25/2015 22:17:00 | 37.40 | 34.10 | 888 | 0.24 | 0.33 | 48.5 |
| 4/25/2015 22:17:01 | 37.73 | 34.43 | 888 | 0.24 | 0.33 | 48.5 |
| 4/25/2015 22:17:01 | 38.06 | 34.76 | 895 | 0.23 | 0.34 | 49.0 |
| 4/25/2015 22:17:01 | 38.39 | 35.09 | 893 | 0.23 | 0.34 | 48.8 |
| 4/25/2015 22:17:02 | 38.71 | 35.41 | 899 | 0.23 | 0.33 | 49.2 |
| 4/25/2015 22:17:02 | 39.04 | 35.74 | 899 | 0.23 | 0.33 | 49.2 |
| 4/25/2015 22:17:02 | 39.37 | 36.07 | 896 | 0.23 | 0.33 | 49.0 |
| 4/25/2015 22:17:03 | 39.70 | 36.40 | 896 | 0.23 | 0.35 | 49.0 |
| 4/25/2015 22:17:03 | 40.03 | 36.73 | 891 | 0.23 | 0.33 | 48.7 |
| 4/25/2015 22:17:04 | 40.35 | 37.05 | 891 | 0.23 | 0.33 | 48.7 |
| 4/25/2015 22:17:04 | 40.68 | 37.38 | 896 | 0.23 | 0.33 | 49.0 |
| 4/25/2015 22:17:04 | 41.01 | 37.71 | 888 | 0.23 | 0.33 | 48.5 |
| 4/25/2015 22:17:05 | 41.34 | 38.04 | 888 | 0.23 | 0.33 | 48.5 |
| 4/25/2015 22:17:05 | 41.67 | 38.37 | 888 | 0.24 | 0.33 | 48.5 |
| 4/25/2015 22:17:06 | 41.99 | 38.69 | 888 | 0.24 | 0.33 | 48.5 |
| 4/25/2015 22:17:06 | 42.32 | 39.02 | 893 | 0.23 | 0.33 | 48.8 |
| 4/25/2015 22:17:06 | 42.65 | 39.35 | 893 | 0.24 | 0.33 | 48.8 |
| 4/25/2015 22:17:07 | 42.98 | 39.68 | 896 | 0.23 | 0.33 | 49.0 |
| 4/25/2015 22:17:07 | 43.31 | 40.01 | 896 | 0.23 | 0.33 | 49.0 |
| 4/25/2015 22:17:07 | 43.64 | 40.34 | 891 | 0.23 | 0.33 | 48.7 |
| 4/25/2015 22:17:08 | 43.96 | 40.66 | 899 | 0.23 | 0.33 | 49.2 |
| 4/25/2015 22:17:08 | 44.29 | 40.99 | 893 | 0.22 | 0.33 | 48.9 |
| 4/25/2015 22:17:09 | 44.62 | 41.32 | 893 | 0.22 | 0.33 | 48.9 |
| 4/25/2015 22:17:09 | 44.95 | 41.65 | 890 | 0.23 | 0.34 | 48.7 |
| 4/25/2015 22:17:09 | 45.28 | 41.98 | 890 | 0.24 | 0.33 | 48.7 |
| 4/25/2015 22:17:10 | 45.60 | 42.30 | 890 | 0.23 | 0.33 | 48.7 |
| 4/25/2015 22:17:11 | 45.93 | 42.63 | 885 | 0.22 | 0.34 | 48.4 |
| 4/25/2015 22:17:11 | 46.26 | 42.96 | 885 | 0.22 | 0.34 | 48.4 |
| 4/25/2015 22:17:11 | 46.59 | 43.29 | 887 | 0.22 | 0.36 | 48.5 |
| 4/25/2015 22:17:36 | 46.92 | 43.62 | 14 | 3.73 | 0.38 | 0.8 |
| 4/25/2015 22:17:42 | 47.24 | 43.94 | 40 | 3.83 | 0.40 | 2.2 |
| 4/25/2015 22:17:45 | 47.57 | 44.27 | 156 | 3.75 | 0.40 | 8.5 |
| 4/25/2015 22:17:48 | 47.90 | 44.60 | 84 | 4.28 | 0.41 | 4.6 |
| 4/25/2015 22:17:55 | 48.23 | 44.93 | 46 | 4.19 | 0.41 | 2.5 |
| 4/25/2015 22:17:59 | 48.56 | 45.26 | 99 | 4.26 | 0.40 | 5.4 |
| 4/25/2015 22:18:04 | 48.88 | 45.58 | 70 | 4.28 | 0.40 | 3.8 |
| 4/25/2015 22:18:07 | 49.21 | 45.91 | 100 | 4.23 | 0.40 | 5.4 |
| 4/25/2015 22:18:13 | 49.54 | 46.24 | 52 | 3.73 | 0.41 | 2.9 |
| 4/25/2015 22:18:20 | 49.87 | 46.57 | 55 | 3.74 | 0.41 | 3.0 |
| 4/25/2015 22:18:28 | 50.20 | 46.90 | 44 | 3.58 | 0.41 | 2.4 |
| 4/25/2015 22:18:35 | 50.53 | 47.23 | 55 | 3.70 | 0.41 | 3.0 |
| 4/25/2015 22:18:39 | 50.76 | 47.46 | 61 | 4.55 | 0.41 | 3.3 |

## H106 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:13:36

**End Date:**
4/25/2015 22:25:37

**Operator Note:**
'3.3 3.5 b Auto Complete'

**Northing:**
366,474.82

**Easting:**
250,320.57

**Tide (feet):**
3.30



## Hole: H107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:24:02 | 33.14 | 30.04 | 607 | 1.80 | 0.17 | 33.2 |
| 4/25/2015 22:24:02 | 33.46 | 30.36 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 22:24:03 | 33.79 | 30.69 | 610 | 1.78 | 0.17 | 33.4 |
| 4/25/2015 22:24:03 | 34.12 | 31.02 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 22:24:04 | 34.45 | 31.35 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 22:24:05 | 34.78 | 31.68 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:05 | 35.11 | 32.01 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:06 | 35.43 | 32.33 | 607 | 1.81 | 0.17 | 33.2 |
| 4/25/2015 22:24:06 | 35.76 | 32.66 | 611 | 1.76 | 0.17 | 33.4 |
| 4/25/2015 22:24:07 | 36.09 | 32.99 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:07 | 36.42 | 33.32 | 608 | 1.77 | 0.16 | 33.2 |
| 4/25/2015 22:24:09 | 36.75 | 33.65 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 22:24:09 | 37.07 | 33.97 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:10 | 37.40 | 34.30 | 604 | 1.81 | 0.17 | 33.0 |
| 4/25/2015 22:24:10 | 37.73 | 34.63 | 601 | 1.79 | 0.17 | 32.8 |
| 4/25/2015 22:24:11 | 38.06 | 34.96 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:11 | 38.39 | 35.29 | 604 | 1.78 | 0.17 | 33.0 |
| 4/25/2015 22:24:12 | 38.71 | 35.61 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 22:24:12 | 39.04 | 35.94 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:13 | 39.37 | 36.27 | 604 | 1.77 | 0.17 | 33.0 |
| 4/25/2015 22:24:14 | 39.70 | 36.60 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:14 | 40.03 | 36.93 | 601 | 1.79 | 0.17 | 32.8 |
| 4/25/2015 22:24:15 | 40.35 | 37.25 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 22:24:15 | 40.68 | 37.58 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:16 | 41.01 | 37.91 | 600 | 1.78 | 0.17 | 32.8 |
| 4/25/2015 22:24:16 | 41.34 | 38.24 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:17 | 41.67 | 38.57 | 604 | 1.80 | 0.17 | 33.0 |
| 4/25/2015 22:24:18 | 41.99 | 38.89 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:19 | 42.32 | 39.22 | 604 | 1.80 | 0.17 | 33.0 |
| 4/25/2015 22:24:19 | 42.65 | 39.55 | 604 | 1.79 | 0.17 | 33.0 |
| 4/25/2015 22:24:20 | 42.98 | 39.88 | 601 | 1.78 | 0.17 | 32.9 |
| 4/25/2015 22:24:20 | 43.31 | 40.21 | 598 | 1.80 | 0.17 | 32.7 |
| 4/25/2015 22:24:21 | 43.64 | 40.54 | 601 | 1.79 | 0.17 | 32.9 |
| 4/25/2015 22:24:22 | 43.96 | 40.86 | 598 | 1.77 | 0.17 | 32.7 |
| 4/25/2015 22:24:22 | 44.29 | 41.19 | 601 | 1.79 | 0.17 | 32.9 |
| 4/25/2015 22:24:23 | 44.62 | 41.52 | 598 | 1.79 | 0.16 | 32.7 |
| 4/25/2015 22:24:23 | 44.95 | 41.85 | 601 | 1.79 | 0.17 | 32.9 |
| 4/25/2015 22:24:24 | 45.28 | 42.18 | 598 | 1.80 | 0.17 | 32.7 |
| 4/25/2015 22:24:24 | 45.60 | 42.50 | 601 | 1.79 | 0.16 | 32.9 |
| 4/25/2015 22:24:25 | 45.93 | 42.83 | 599 | 1.78 | 0.17 | 32.7 |
| 4/25/2015 22:24:26 | 46.26 | 43.16 | 598 | 1.78 | 0.17 | 32.7 |
| 4/25/2015 22:24:26 | 46.59 | 43.49 | 601 | 1.79 | 0.17 | 32.9 |
| 4/25/2015 22:24:27 | 46.92 | 43.82 | 595 | 1.79 | 0.17 | 32.5 |
| 4/25/2015 22:24:27 | 47.24 | 44.14 | 601 | 1.80 | 0.17 | 32.9 |
| 4/25/2015 22:24:28 | 47.57 | 44.47 | 601 | 1.80 | 0.17 | 32.9 |
| 4/25/2015 22:24:43 | 47.90 | 44.80 | 74 | 1.76 | 1.05 | 4.1 |
| 4/25/2015 22:24:47 | 48.23 | 45.13 | 83 | 1.79 | 1.51 | 4.5 |
| 4/25/2015 22:24:49 | 48.56 | 45.46 | 220 | 1.77 | 1.24 | 12.0 |
| 4/25/2015 22:24:56 | 48.88 | 45.78 | 46 | 1.80 | 1.33 | 2.5 |
| 4/25/2015 22:24:58 | 49.21 | 46.11 | 158 | 1.74 | 1.15 | 8.6 |
| 4/25/2015 22:24:59 | 49.54 | 46.44 | 234 | 1.76 | 1.14 | 12.8 |
| 4/25/2015 22:25:01 | 49.87 | 46.77 | 239 | 1.81 | 1.17 | 13.1 |
| 4/25/2015 22:25:03 | 50.20 | 47.10 | 243 | 1.74 | 1.11 | 13.3 |
| 4/25/2015 22:25:28 | 50.53 | 47.43 | 0 | 1.79 | 1.20 | 0.0 |
| 4/25/2015 22:25:32 | 50.85 | 47.75 | 95 | 1.79 | 1.19 | 5.2 |
| 4/25/2015 22:25:35 | 51.18 | 48.08 | 110 | 1.78 | 1.14 | 6.0 |
| 4/25/2015 22:25:38 | 51.51 | 48.41 | 124 | 1.79 | 1.16 | 6.8 |
| 4/25/2015 22:25:51 | 51.84 | 48.74 | 36 | 1.80 | 1.14 | 2.0 |
| 4/25/2015 22:25:55 | 52.17 | 49.07 | 106 | 1.79 | 1.08 | 5.8 |
| 4/25/2015 22:26:00 | 52.49 | 49.39 | 75 | 1.80 | 1.08 | 4.1 |
| 4/25/2015 22:26:04 | 52.82 | 49.72 | 101 | 1.79 | 1.16 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 22:26:08 | 53.15 | 50.05 | 88 | 1.81 | 1.18 | 4.8 |
| 4/25/2015 | 22:26:12 | 53.48 | 50.38 | 81 | 1.81 | 1.16 | 4.4 |
| 4/25/2015 | 22:26:22 | 53.81 | 50.71 | 43 | 1.79 | 1.15 | 2.4 |
| 4/25/2015 | 22:26:28 | 54.13 | 51.03 | 40 | 1.81 | 1.20 | 2.2 |
| 4/25/2015 | 22:26:34 | 54.46 | 51.36 | 66 | 1.81 | 1.16 | 3.6 |
| 4/25/2015 | 22:26:37 | 54.59 | 51.49 | 38 | 1.82 | 1.16 | 2.1 |

## H107 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:22:00

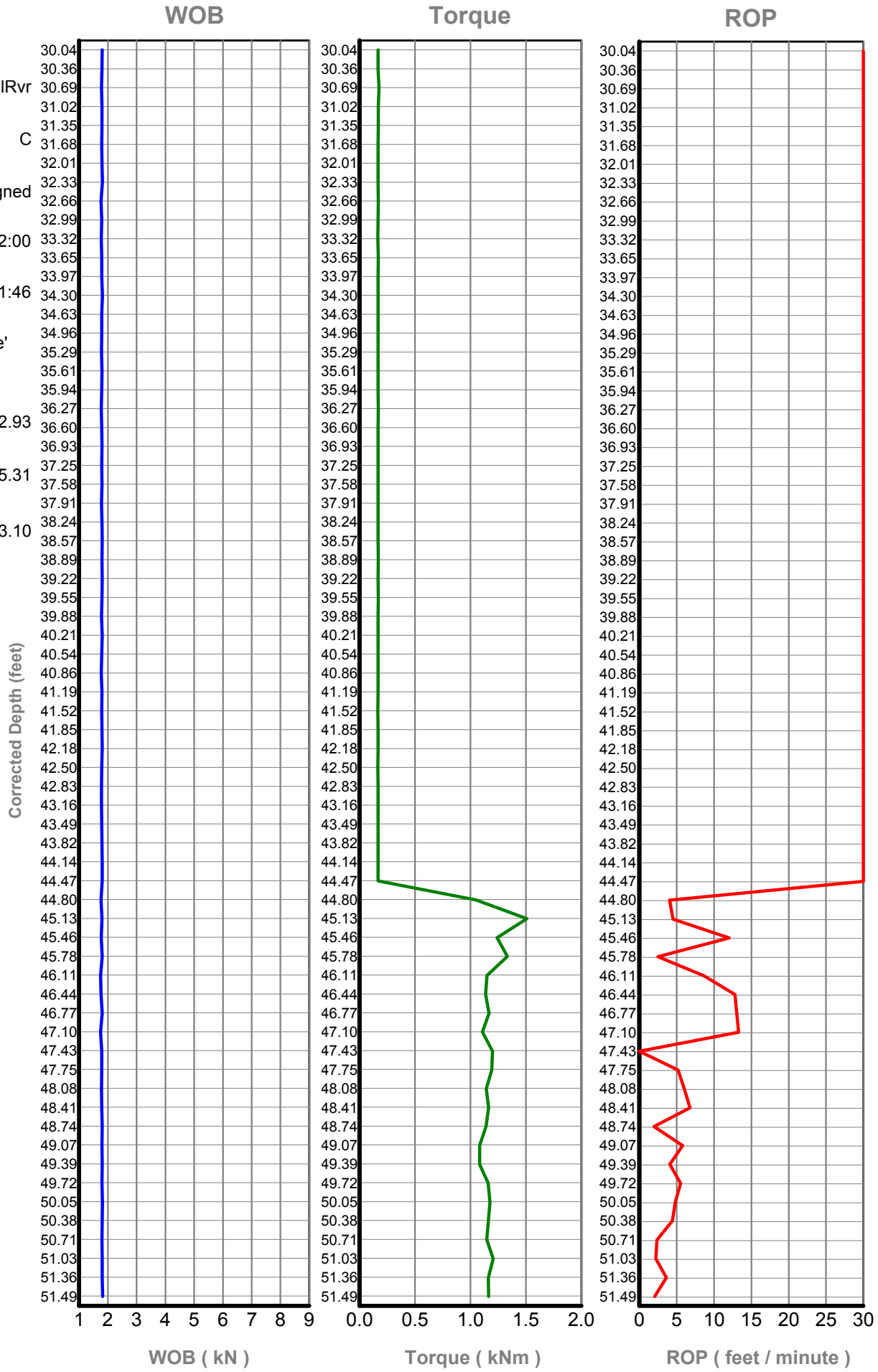
**End Date:**
4/25/2015 22:31:46

**Operator Note:**
'3.1 3.4 c Auto Complete'

**Northing:**
366,512.93

**Easting:**
250,365.31

**Tide (feet):**
3.10



## Hole: H108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:17:23 | 33.46 | 30.26 | 517 | 1.81 | 0.17 | 28.3 |
| 4/25/2015 22:17:24 | 33.79 | 30.59 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:17:25 | 34.12 | 30.92 | 507 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:17:25 | 34.45 | 31.25 | 513 | 1.81 | 0.14 | 28.0 |
| 4/25/2015 22:17:26 | 34.78 | 31.58 | 513 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:27 | 35.11 | 31.91 | 516 | 1.79 | 0.17 | 28.2 |
| 4/25/2015 22:17:27 | 35.43 | 32.23 | 516 | 1.81 | 0.17 | 28.2 |
| 4/25/2015 22:17:28 | 35.76 | 32.56 | 517 | 1.81 | 0.17 | 28.3 |
| 4/25/2015 22:17:29 | 36.09 | 32.89 | 508 | 1.81 | 0.17 | 27.8 |
| 4/25/2015 22:17:29 | 36.42 | 33.22 | 511 | 1.81 | 0.17 | 27.9 |
| 4/25/2015 22:17:30 | 36.75 | 33.55 | 519 | 1.80 | 0.17 | 28.4 |
| 4/25/2015 22:17:31 | 37.07 | 33.87 | 517 | 1.81 | 0.17 | 28.3 |
| 4/25/2015 22:17:31 | 37.40 | 34.20 | 507 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:17:32 | 37.73 | 34.53 | 507 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:17:33 | 38.06 | 34.86 | 504 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:17:34 | 38.39 | 35.19 | 510 | 1.81 | 0.17 | 27.9 |
| 4/25/2015 22:17:34 | 38.71 | 35.51 | 510 | 1.81 | 0.17 | 27.9 |
| 4/25/2015 22:17:35 | 39.04 | 35.84 | 507 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:17:36 | 39.37 | 36.17 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:36 | 39.70 | 36.50 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:37 | 40.03 | 36.83 | 507 | 1.82 | 0.17 | 27.7 |
| 4/25/2015 22:17:38 | 40.35 | 37.15 | 510 | 1.81 | 0.17 | 27.9 |
| 4/25/2015 22:17:38 | 40.68 | 37.48 | 516 | 1.81 | 0.17 | 28.2 |
| 4/25/2015 22:17:39 | 41.01 | 37.81 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:40 | 41.34 | 38.14 | 518 | 1.82 | 0.17 | 28.3 |
| 4/25/2015 22:17:40 | 41.67 | 38.47 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:41 | 41.99 | 38.79 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:42 | 42.32 | 39.12 | 512 | 1.80 | 0.17 | 28.0 |
| 4/25/2015 22:17:43 | 42.65 | 39.45 | 506 | 1.82 | 0.17 | 27.6 |
| 4/25/2015 22:17:44 | 42.98 | 39.78 | 508 | 1.80 | 0.17 | 27.8 |
| 4/25/2015 22:17:44 | 43.31 | 40.11 | 512 | 1.80 | 0.17 | 28.0 |
| 4/25/2015 22:17:45 | 43.64 | 40.44 | 512 | 1.82 | 0.17 | 28.0 |
| 4/25/2015 22:17:46 | 43.96 | 40.76 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:46 | 44.29 | 41.09 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:47 | 44.62 | 41.42 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:17:48 | 44.95 | 41.75 | 505 | 1.82 | 0.17 | 27.6 |
| 4/25/2015 22:17:48 | 45.28 | 42.08 | 511 | 1.81 | 0.17 | 27.9 |
| 4/25/2015 22:17:49 | 45.60 | 42.40 | 508 | 1.81 | 0.17 | 27.8 |
| 4/25/2015 22:17:50 | 45.93 | 42.73 | 513 | 1.80 | 0.17 | 28.1 |
| 4/25/2015 22:17:50 | 46.26 | 43.06 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 22:17:51 | 46.59 | 43.39 | 509 | 1.80 | 0.17 | 27.8 |
| 4/25/2015 22:17:52 | 46.92 | 43.72 | 506 | 1.80 | 0.17 | 27.6 |
| 4/25/2015 22:18:12 | 47.24 | 44.04 | 91 | 1.77 | 1.27 | 5.0 |
| 4/25/2015 22:18:31 | 47.57 | 44.37 | 0 | 1.78 | 1.12 | 0.0 |
| 4/25/2015 22:18:35 | 47.90 | 44.70 | 105 | 1.80 | 1.16 | 5.7 |
| 4/25/2015 22:18:49 | 48.23 | 45.03 | 43 | 1.81 | 1.17 | 2.4 |
| 4/25/2015 22:18:57 | 48.56 | 45.36 | 46 | 1.80 | 1.12 | 2.5 |
| 4/25/2015 22:19:02 | 48.88 | 45.68 | 66 | 1.79 | 1.18 | 3.6 |
| 4/25/2015 22:19:04 | 49.08 | 45.88 | 90 | 1.78 | 1.18 | 4.9 |

## H108 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:15:38

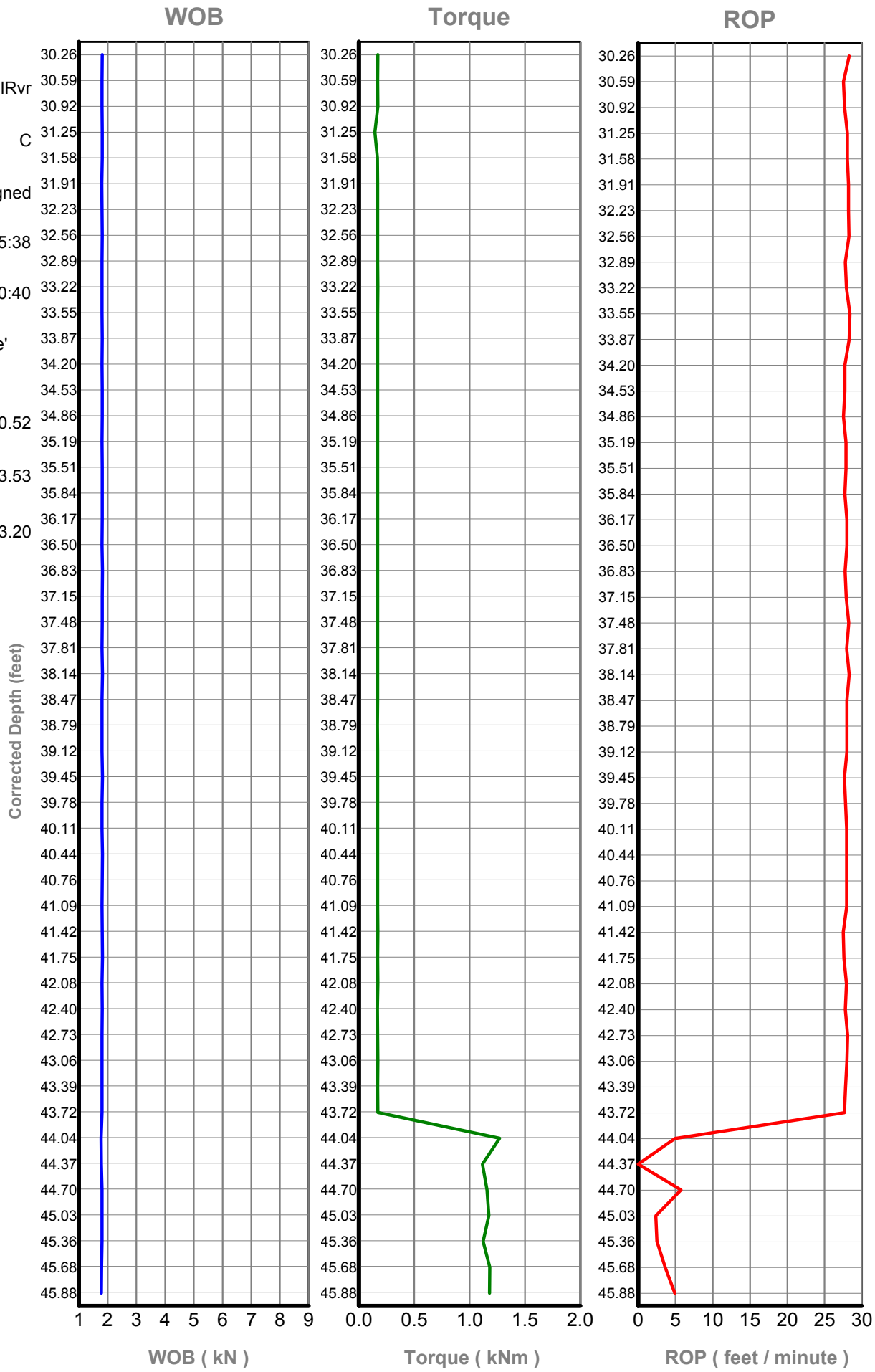
**End Date:**
4/25/2015 22:20:40

**Operator Note:**
'3.2 3.5 c Auto Complete'

**Northing:**
366,560.52

**Easting:**
250,423.53

**Tide (feet):**
3.20



## Hole: H109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:34:28 | 31.17 | 30.17 | 1,085 | 0.32 | 0.31 | 59.3 |
| 4/25/2015 12:34:29 | 31.50 | 30.50 | 1,094 | 0.32 | 0.31 | 59.8 |
| 4/25/2015 12:34:30 | 31.82 | 30.82 | 1,094 | 0.32 | 0.31 | 59.8 |
| 4/25/2015 12:34:29 | 32.15 | 31.15 | 1,076 | 0.32 | 0.32 | 58.8 |
| 4/25/2015 12:34:30 | 32.48 | 31.48 | 1,069 | 0.33 | 0.31 | 58.5 |
| 4/25/2015 12:34:31 | 32.81 | 31.81 | 1,069 | 0.33 | 0.31 | 58.5 |
| 4/25/2015 12:34:31 | 33.14 | 32.14 | 1,082 | 0.33 | 0.31 | 59.2 |
| 4/25/2015 12:34:31 | 33.46 | 32.46 | 1,079 | 0.33 | 0.31 | 59.0 |
| 4/25/2015 12:34:32 | 33.79 | 32.79 | 1,079 | 0.33 | 0.31 | 59.0 |
| 4/25/2015 12:34:32 | 34.12 | 33.12 | 1,082 | 0.33 | 0.32 | 59.2 |
| 4/25/2015 12:34:32 | 34.45 | 33.45 | 1,082 | 0.33 | 0.32 | 59.2 |
| 4/25/2015 12:34:32 | 34.78 | 33.78 | 1,079 | 0.32 | 0.32 | 59.0 |
| 4/25/2015 12:34:33 | 35.11 | 34.11 | 1,089 | 0.33 | 0.31 | 59.5 |
| 4/25/2015 12:34:33 | 35.43 | 34.43 | 1,089 | 0.33 | 0.31 | 59.5 |
| 4/25/2015 12:34:33 | 35.76 | 34.76 | 1,083 | 0.33 | 0.31 | 59.2 |
| 4/25/2015 12:34:34 | 36.09 | 35.09 | 1,080 | 0.33 | 0.32 | 59.1 |
| 4/25/2015 12:34:34 | 36.42 | 35.42 | 1,080 | 0.33 | 0.32 | 59.1 |
| 4/25/2015 12:34:34 | 36.75 | 35.75 | 1,070 | 0.32 | 0.32 | 58.5 |
| 4/25/2015 12:34:35 | 37.07 | 36.07 | 1,085 | 0.33 | 0.31 | 59.4 |
| 4/25/2015 12:34:35 | 37.40 | 36.40 | 1,085 | 0.33 | 0.31 | 59.4 |
| 4/25/2015 12:34:35 | 37.73 | 36.73 | 1,072 | 0.32 | 0.32 | 58.6 |
| 4/25/2015 12:34:36 | 38.06 | 37.06 | 1,072 | 0.32 | 0.32 | 58.6 |
| 4/25/2015 12:34:36 | 38.39 | 37.39 | 1,069 | 0.33 | 0.32 | 58.5 |
| 4/25/2015 12:34:36 | 38.71 | 37.71 | 1,072 | 0.33 | 0.32 | 58.6 |
| 4/25/2015 12:34:37 | 39.04 | 38.04 | 1,072 | 0.33 | 0.32 | 58.6 |
| 4/25/2015 12:34:37 | 39.37 | 38.37 | 1,078 | 0.34 | 0.31 | 59.0 |
| 4/25/2015 12:34:37 | 39.70 | 38.70 | 1,082 | 0.33 | 0.31 | 59.2 |
| 4/25/2015 12:34:38 | 40.03 | 39.03 | 1,082 | 0.33 | 0.31 | 59.2 |
| 4/25/2015 12:34:38 | 40.35 | 39.35 | 1,081 | 0.33 | 0.31 | 59.1 |
| 4/25/2015 12:34:38 | 40.68 | 39.68 | 1,074 | 0.33 | 0.32 | 58.8 |
| 4/25/2015 12:34:39 | 41.01 | 40.01 | 1,074 | 0.33 | 0.32 | 58.8 |
| 4/25/2015 12:34:39 | 41.34 | 40.34 | 1,081 | 0.32 | 0.31 | 59.1 |
| 4/25/2015 12:34:40 | 41.67 | 40.67 | 1,081 | 0.32 | 0.31 | 59.1 |
| 4/25/2015 12:34:39 | 41.99 | 40.99 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 12:34:40 | 42.32 | 41.32 | 1,065 | 0.33 | 0.30 | 58.2 |
| 4/25/2015 12:34:40 | 42.65 | 41.65 | 1,065 | 0.33 | 0.30 | 58.2 |
| 4/25/2015 12:34:41 | 42.98 | 41.98 | 1,075 | 0.33 | 0.32 | 58.8 |
| 4/25/2015 12:34:41 | 43.31 | 42.31 | 1,081 | 0.33 | 0.32 | 59.1 |
| 4/25/2015 12:34:42 | 43.64 | 42.64 | 1,081 | 0.33 | 0.32 | 59.1 |
| 4/25/2015 12:34:42 | 43.96 | 42.96 | 1,075 | 0.31 | 0.33 | 58.8 |
| 4/25/2015 12:34:50 | 44.29 | 43.29 | 0 | 3.24 | 0.40 | 0.0 |
| 4/25/2015 12:34:54 | 44.62 | 43.62 | 129 | 4.91 | 0.37 | 7.0 |
| 4/25/2015 12:34:54 | 44.95 | 43.95 | 214 | 3.07 | 0.37 | 11.7 |
| 4/25/2015 12:35:19 | 45.28 | 44.28 | 62 | 5.12 | 0.38 | 3.4 |
| 4/25/2015 12:35:25 | 45.60 | 44.60 | 0 | 5.35 | 0.44 | 0.0 |
| 4/25/2015 12:35:28 | 45.93 | 44.93 | 101 | 3.28 | 0.39 | 5.5 |
| 4/25/2015 12:35:30 | 46.26 | 45.26 | 195 | 4.51 | 0.39 | 10.6 |
| 4/25/2015 12:35:40 | 46.59 | 45.59 | 25 | 3.10 | 0.39 | 1.4 |
| 4/25/2015 12:35:42 | 46.92 | 45.92 | 141 | 2.97 | 0.39 | 7.7 |
| 4/25/2015 12:35:46 | 47.24 | 46.24 | 107 | 3.14 | 0.40 | 5.9 |
| 4/25/2015 12:35:51 | 47.57 | 46.57 | 72 | 3.34 | 0.40 | 4.0 |
| 4/25/2015 12:35:56 | 47.90 | 46.90 | 76 | 2.95 | 0.40 | 4.1 |
| 4/25/2015 12:36:01 | 48.23 | 47.23 | 55 | 3.33 | 0.40 | 3.0 |
| 4/25/2015 12:36:38 | 48.56 | 47.56 | 60 | 3.92 | 0.41 | 3.3 |
| 4/25/2015 12:36:44 | 48.88 | 47.88 | 86 | 3.47 | 0.40 | 4.7 |
| 4/25/2015 12:36:49 | 49.21 | 48.21 | 72 | 3.37 | 0.40 | 3.9 |
| 4/25/2015 12:36:54 | 49.54 | 48.54 | 75 | 3.62 | 0.41 | 4.1 |
| 4/25/2015 12:36:57 | 49.77 | 48.77 | 79 | 3.28 | 0.40 | 4.3 |

## H109 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:32:01

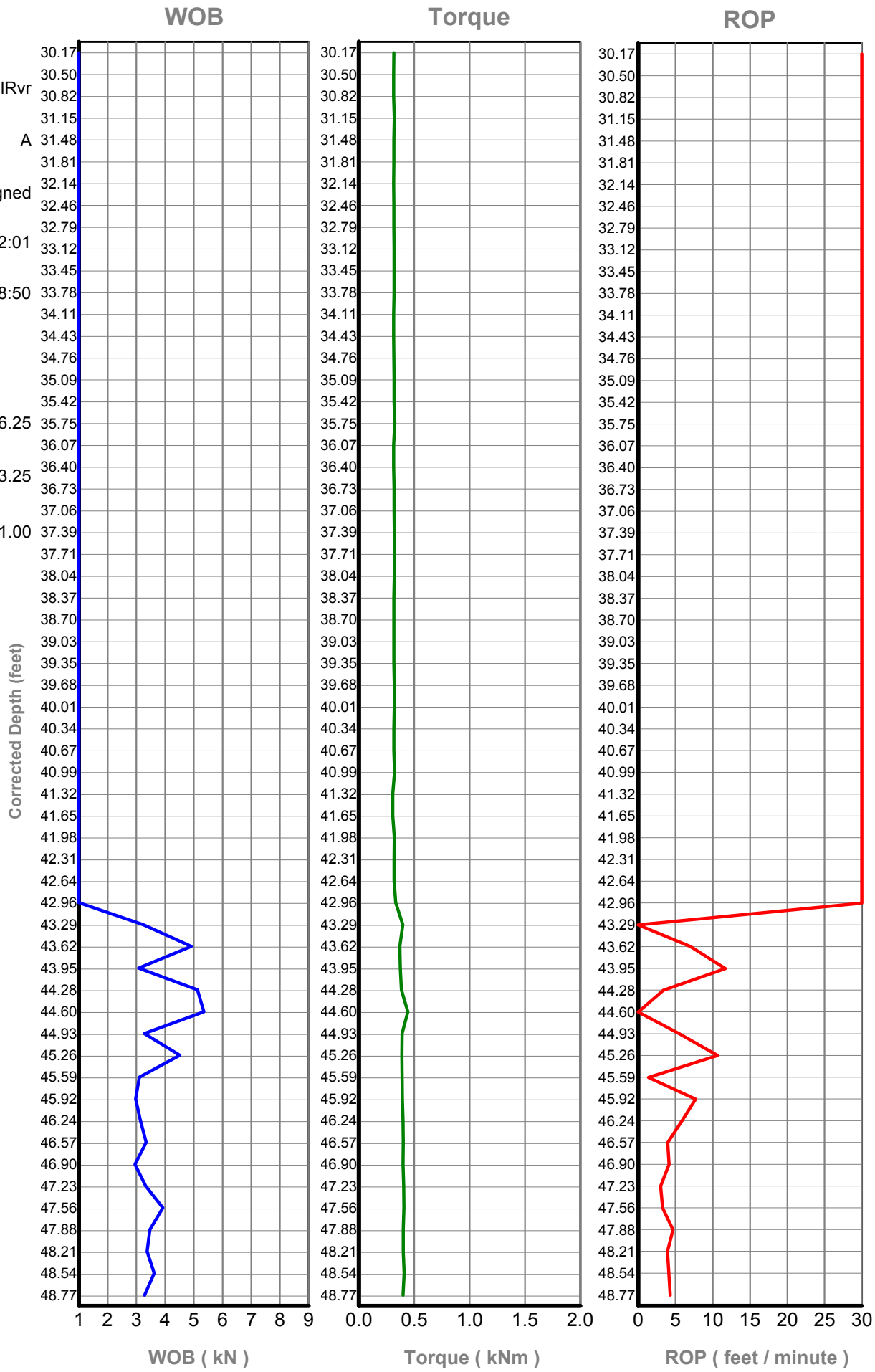
**End Date:**
4/25/2015 12:38:50

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
366,626.25

**Easting:**
250,503.25

**Tide (feet):**
1.00



## Hole: H11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:51:49 | 34.78 | 30.18 | 1,056 | 0.31 | 0.31 | 57.7 |
| 4/26/2015 22:51:49 | 35.11 | 30.51 | 1,045 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 22:51:49 | 35.43 | 30.83 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 22:51:50 | 35.76 | 31.16 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 22:51:50 | 36.09 | 31.49 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 22:51:50 | 36.42 | 31.82 | 1,036 | 0.30 | 0.31 | 56.7 |
| 4/26/2015 22:51:51 | 36.75 | 32.15 | 1,036 | 0.30 | 0.31 | 56.7 |
| 4/26/2015 22:51:51 | 37.07 | 32.47 | 1,036 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 22:51:51 | 37.40 | 32.80 | 1,040 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 22:51:52 | 37.73 | 33.13 | 1,040 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 22:51:52 | 38.06 | 33.46 | 1,059 | 0.31 | 0.31 | 57.9 |
| 4/26/2015 22:51:52 | 38.39 | 33.79 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:51:53 | 38.71 | 34.11 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:51:53 | 39.04 | 34.44 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 22:51:53 | 39.37 | 34.77 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 22:51:53 | 39.70 | 35.10 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/26/2015 22:51:54 | 40.03 | 35.43 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 22:51:54 | 40.35 | 35.75 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 22:51:54 | 40.68 | 36.08 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/26/2015 22:51:55 | 41.01 | 36.41 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/26/2015 22:51:55 | 41.34 | 36.74 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/26/2015 22:51:55 | 41.67 | 37.07 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/26/2015 22:51:56 | 41.99 | 37.39 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 22:51:57 | 42.32 | 37.72 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 22:51:57 | 42.65 | 38.05 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/26/2015 22:51:57 | 42.98 | 38.38 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:51:58 | 43.31 | 38.71 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:51:58 | 43.64 | 39.04 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:51:58 | 43.96 | 39.36 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 22:51:59 | 44.29 | 39.69 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 22:51:59 | 44.62 | 40.02 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 22:51:59 | 44.95 | 40.35 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:52:00 | 45.28 | 40.68 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:52:00 | 45.60 | 41.00 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/26/2015 22:52:00 | 45.93 | 41.33 | 1,020 | 0.31 | 0.37 | 55.8 |
| 4/26/2015 22:52:07 | 46.26 | 41.66 | 65 | 3.52 | 0.39 | 3.5 |
| 4/26/2015 22:52:09 | 46.59 | 41.99 | 185 | 4.66 | 0.38 | 10.1 |
| 4/26/2015 22:52:13 | 46.92 | 42.32 | 26 | 5.00 | 0.39 | 1.4 |
| 4/26/2015 22:52:20 | 47.24 | 42.64 | 37 | 4.19 | 0.38 | 2.0 |
| 4/26/2015 22:52:21 | 47.57 | 42.97 | 173 | 3.88 | 0.37 | 9.5 |
| 4/26/2015 22:52:23 | 47.90 | 43.30 | 335 | 4.55 | 0.37 | 18.3 |
| 4/26/2015 22:52:28 | 48.23 | 43.63 | 59 | 3.52 | 0.37 | 3.2 |
| 4/26/2015 22:52:30 | 48.56 | 43.96 | 178 | 3.88 | 0.41 | 9.7 |
| 4/26/2015 22:52:32 | 48.88 | 44.28 | 205 | 4.09 | 0.41 | 11.2 |
| 4/26/2015 22:52:37 | 49.21 | 44.61 | 0 | 4.92 | 0.39 | 0.0 |
| 4/26/2015 22:52:45 | 49.54 | 44.94 | 34 | 2.68 | 0.43 | 1.9 |
| 4/26/2015 22:52:51 | 49.87 | 45.27 | 0 | 2.52 | 0.34 | 0.0 |
| 4/26/2015 22:52:51 | 50.20 | 45.60 | 85 | 2.55 | 0.35 | 4.7 |
| 4/26/2015 22:52:52 | 50.53 | 45.93 | 300 | 2.70 | 0.37 | 16.4 |
| 4/26/2015 22:52:53 | 50.85 | 46.25 | 447 | 3.98 | 0.41 | 24.4 |
| 4/26/2015 22:54:49 | 51.18 | 46.58 | 68 | 4.26 | 0.37 | 3.7 |
| 4/26/2015 22:54:50 | 51.51 | 46.91 | 179 | 4.07 | 0.37 | 9.8 |
| 4/26/2015 22:54:51 | 51.84 | 47.24 | 335 | 2.23 | 0.34 | 18.3 |
| 4/26/2015 22:55:12 | 52.17 | 47.57 | 13 | 2.22 | 0.34 | 0.7 |
| 4/26/2015 22:55:12 | 52.49 | 47.89 | 13 | 2.10 | 0.34 | 0.7 |
| 4/26/2015 22:55:13 | 52.82 | 48.22 | 157 | 2.08 | 0.33 | 8.6 |
| 4/26/2015 22:55:13 | 53.15 | 48.55 | 297 | 2.43 | 0.35 | 16.3 |
| 4/26/2015 22:55:15 | 53.48 | 48.88 | 513 | 4.48 | 0.38 | 28.1 |
| 4/26/2015 22:55:17 | 53.81 | 49.21 | 313 | 2.72 | 0.37 | 17.1 |
| 4/26/2015 22:55:17 | 54.13 | 49.53 | 269 | 2.88 | 0.37 | 14.7 |
| 4/26/2015 22:55:18 | 54.46 | 49.86 | 287 | 2.96 | 0.37 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:55:19 | 54.79 | 50.19 | 341 | 3.24 | 0.37 | 18.6 |
| 4/26/2015 | 22:55:21 | 55.12 | 50.52 | 313 | 3.00 | 0.37 | 17.1 |
| 4/26/2015 | 22:55:22 | 55.45 | 50.85 | 309 | 3.13 | 0.37 | 16.9 |
| 4/26/2015 | 22:55:27 | 55.77 | 51.17 | 0 | 3.31 | 0.39 | 0.0 |
| 4/26/2015 | 22:55:28 | 56.10 | 51.50 | 156 | 3.02 | 0.37 | 8.5 |
| 4/26/2015 | 22:55:29 | 56.43 | 51.83 | 250 | 2.63 | 0.37 | 13.7 |
| 4/26/2015 | 22:55:30 | 56.76 | 52.16 | 355 | 2.88 | 0.38 | 19.4 |
| 4/26/2015 | 22:55:32 | 57.09 | 52.49 | 212 | 3.26 | 0.40 | 11.6 |
| 4/26/2015 | 22:58:36 | 57.41 | 52.81 | 25 | 3.93 | 0.40 | 1.3 |
| 4/26/2015 | 22:58:39 | 57.74 | 53.14 | 97 | 2.98 | 0.39 | 5.3 |
| 4/26/2015 | 22:58:43 | 58.07 | 53.47 | 99 | 3.31 | 0.39 | 5.4 |
| 4/26/2015 | 22:58:46 | 58.40 | 53.80 | 102 | 3.48 | 0.40 | 5.6 |
| 4/26/2015 | 22:58:50 | 58.73 | 54.13 | 66 | 2.82 | 0.40 | 3.6 |
| 4/26/2015 | 22:58:55 | 59.06 | 54.46 | 90 | 2.80 | 0.40 | 4.9 |
| 4/26/2015 | 22:58:59 | 59.38 | 54.78 | 69 | 3.45 | 0.40 | 3.8 |
| 4/26/2015 | 22:59:04 | 59.71 | 55.11 | 94 | 3.96 | 0.40 | 5.2 |
| 4/26/2015 | 22:59:04 | 59.79 | 55.19 | 95 | 3.98 | 0.40 | 5.2 |

## H11 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:49:55

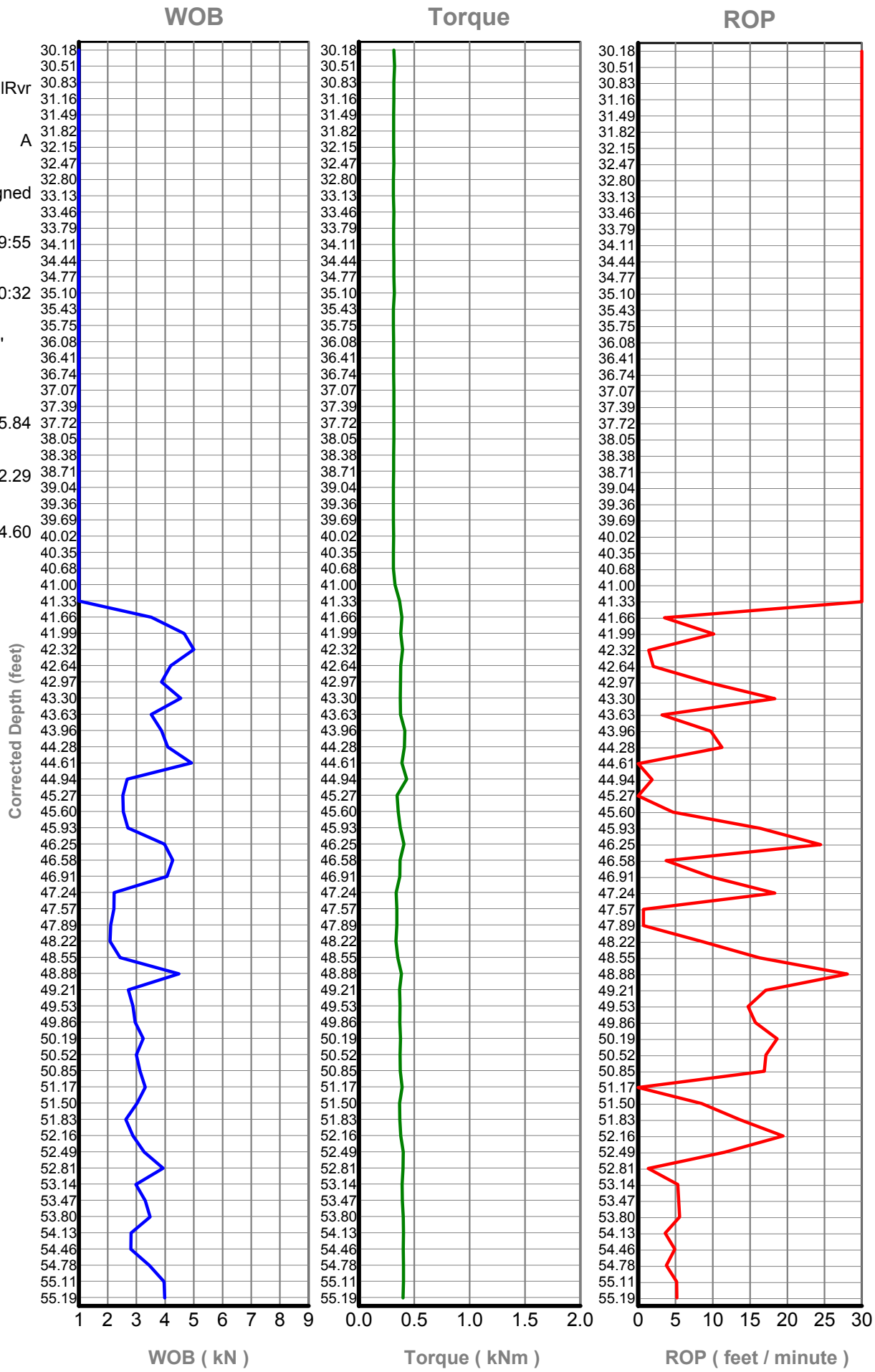
**End Date:**
4/26/2015 23:00:32

**Operator Note:**
'4.6 4.8b Auto Complete'

**Northing:**
366,065.84

**Easting:**
249,572.29

**Tide (feet):**
4.60



## Hole: H110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:27:48 | 31.17 | 30.07 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 12:27:48 | 31.50 | 30.40 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 12:27:48 | 31.82 | 30.72 | 1,027 | 0.33 | 0.30 | 56.1 |
| 4/25/2015 12:27:49 | 32.15 | 31.05 | 1,023 | 0.31 | 0.30 | 55.9 |
| 4/25/2015 12:27:49 | 32.48 | 31.38 | 1,023 | 0.31 | 0.30 | 55.9 |
| 4/25/2015 12:27:49 | 32.81 | 31.71 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 12:27:50 | 33.14 | 32.04 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 12:27:50 | 33.46 | 32.36 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 12:27:50 | 33.79 | 32.69 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 12:27:51 | 34.12 | 33.02 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 12:27:51 | 34.45 | 33.35 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 12:27:51 | 34.78 | 33.68 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 12:27:52 | 35.11 | 34.01 | 1,035 | 0.31 | 0.30 | 56.6 |
| 4/25/2015 12:27:52 | 35.43 | 34.33 | 1,035 | 0.31 | 0.30 | 56.6 |
| 4/25/2015 12:27:52 | 35.76 | 34.66 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:53 | 36.09 | 34.99 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 12:27:53 | 36.42 | 35.32 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 12:27:53 | 36.75 | 35.65 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/25/2015 12:27:54 | 37.07 | 35.97 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:55 | 37.40 | 36.30 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:55 | 37.73 | 36.63 | 1,018 | 0.31 | 0.31 | 55.6 |
| 4/25/2015 12:27:55 | 38.06 | 36.96 | 1,014 | 0.32 | 0.31 | 55.5 |
| 4/25/2015 12:27:56 | 38.39 | 37.29 | 1,014 | 0.32 | 0.31 | 55.5 |
| 4/25/2015 12:27:56 | 38.71 | 37.61 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:56 | 39.04 | 37.94 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:57 | 39.37 | 38.27 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:57 | 39.70 | 38.60 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:57 | 40.03 | 38.93 | 1,029 | 0.31 | 0.30 | 56.3 |
| 4/25/2015 12:27:58 | 40.35 | 39.25 | 1,029 | 0.31 | 0.30 | 56.3 |
| 4/25/2015 12:27:58 | 40.68 | 39.58 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 12:27:58 | 41.01 | 39.91 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:59 | 41.34 | 40.24 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 12:27:59 | 41.67 | 40.57 | 1,023 | 0.18 | 0.31 | 56.0 |
| 4/25/2015 12:27:59 | 41.99 | 40.89 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/25/2015 12:28:00 | 42.32 | 41.22 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/25/2015 12:28:00 | 42.65 | 41.55 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/25/2015 12:28:00 | 42.98 | 41.88 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:28:01 | 43.31 | 42.21 | 1,021 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:28:01 | 43.64 | 42.54 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/25/2015 12:28:01 | 43.96 | 42.86 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:28:02 | 44.29 | 43.19 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:28:02 | 44.62 | 43.52 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:28:02 | 44.95 | 43.85 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 12:28:03 | 45.28 | 44.18 | 1,006 | 0.29 | 0.37 | 55.0 |
| 4/25/2015 12:28:11 | 45.60 | 44.50 | 74 | 3.34 | 0.37 | 4.1 |
| 4/25/2015 12:28:14 | 45.93 | 44.83 | 164 | 4.72 | 0.40 | 9.0 |
| 4/25/2015 12:28:22 | 46.26 | 45.16 | 60 | 4.16 | 0.36 | 3.3 |
| 4/25/2015 12:28:26 | 46.59 | 45.49 | 75 | 4.98 | 0.37 | 4.1 |
| 4/25/2015 12:28:27 | 46.92 | 45.82 | 186 | 4.28 | 0.37 | 10.2 |
| 4/25/2015 12:29:24 | 47.24 | 46.14 | 72 | 3.79 | 0.38 | 3.9 |
| 4/25/2015 12:29:29 | 47.57 | 46.47 | 73 | 4.56 | 0.38 | 4.0 |
| 4/25/2015 12:29:30 | 47.90 | 46.80 | 185 | 3.77 | 0.37 | 10.1 |
| 4/25/2015 12:29:36 | 48.23 | 47.13 | 87 | 3.68 | 0.38 | 4.8 |
| 4/25/2015 12:29:37 | 48.56 | 47.46 | 180 | 2.90 | 0.39 | 9.9 |
| 4/25/2015 12:29:42 | 48.88 | 47.78 | 69 | 3.12 | 0.40 | 3.8 |
| 4/25/2015 12:29:47 | 49.21 | 48.11 | 67 | 3.30 | 0.38 | 3.7 |
| 4/25/2015 12:29:50 | 49.54 | 48.44 | 180 | 2.87 | 0.39 | 9.8 |
| 4/25/2015 12:29:53 | 49.87 | 48.77 | 118 | 3.17 | 0.40 | 6.4 |
| 4/25/2015 12:30:00 | 50.20 | 49.10 | 85 | 3.24 | 0.39 | 4.6 |
| 4/25/2015 12:30:04 | 50.53 | 49.43 | 73 | 3.56 | 0.40 | 4.0 |
| 4/25/2015 12:30:09 | 50.85 | 49.75 | 68 | 3.16 | 0.40 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:30:15 | 51.18 | 50.08 | 50 | 2.99 | 0.40 | 2.7 |
| 4/25/2015 | 12:30:22 | 51.51 | 50.41 | 58 | 3.26 | 0.41 | 3.2 |
| 4/25/2015 | 12:30:29 | 51.84 | 50.74 | 46 | 3.14 | 0.40 | 2.5 |
| 4/25/2015 | 12:30:32 | 51.98 | 50.88 | 49 | 2.78 | 0.39 | 2.7 |

## H110 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:25:42

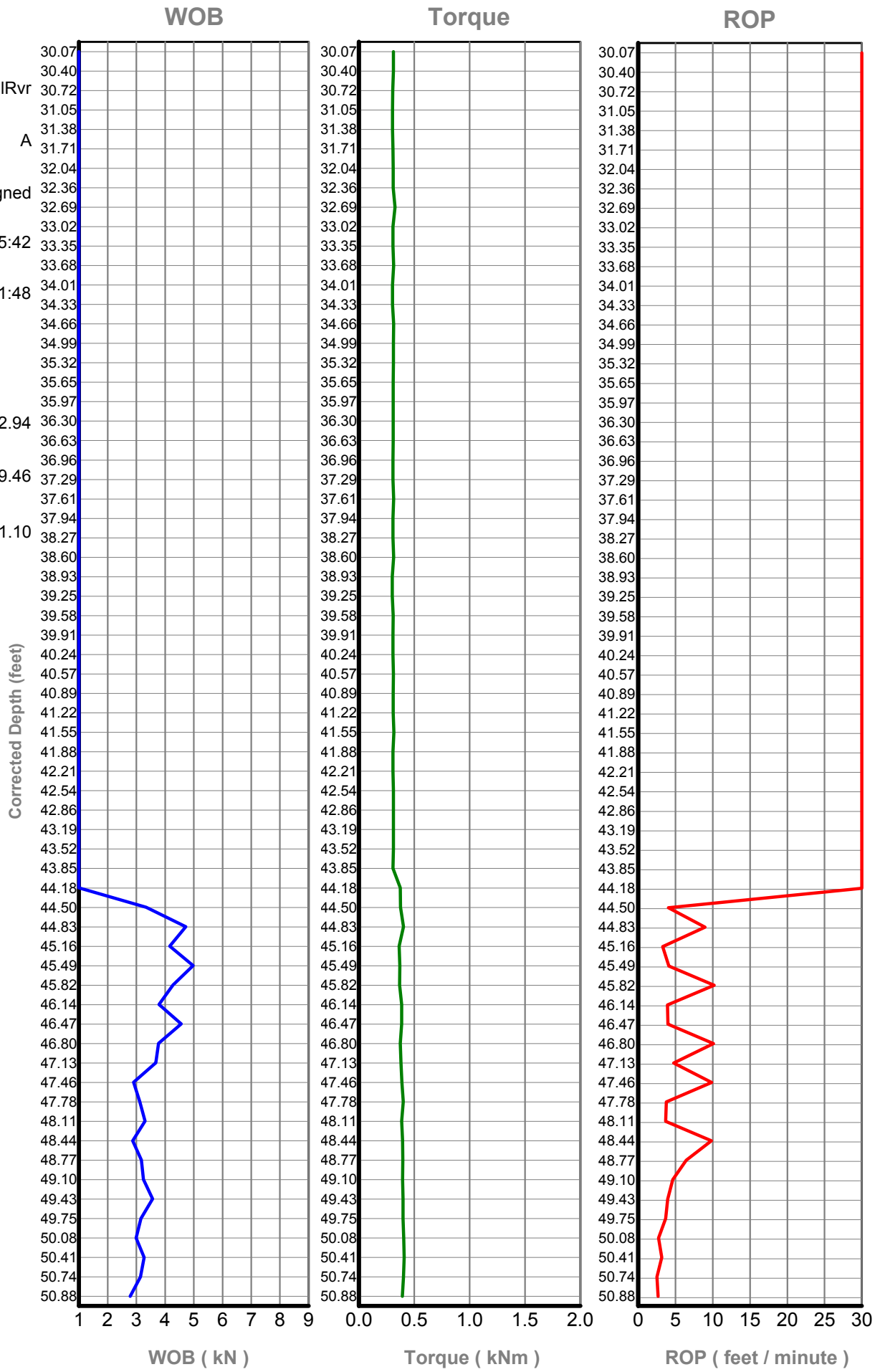
**End Date:**
4/25/2015 12:31:48

**Operator Note:**
'1.1 1.2 b Rock'

**Northing:**
366,662.94

**Easting:**
250,549.46

**Tide (feet):**
1.10



## Hole: H111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:29:25 | 31.17 | 30.17 | 561 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 12:29:25 | 31.50 | 30.50 | 576 | 1.75 | 0.30 | 31.5 |
| 4/25/2015 12:29:26 | 31.82 | 30.82 | 575 | 1.74 | 0.30 | 31.5 |
| 4/25/2015 12:29:26 | 32.15 | 31.15 | 579 | 1.78 | 0.30 | 31.7 |
| 4/25/2015 12:29:27 | 32.48 | 31.48 | 573 | 1.76 | 0.30 | 31.3 |
| 4/25/2015 12:29:28 | 32.81 | 31.81 | 574 | 1.75 | 0.30 | 31.4 |
| 4/25/2015 12:29:29 | 33.14 | 32.14 | 574 | 1.75 | 0.30 | 31.4 |
| 4/25/2015 12:29:29 | 33.46 | 32.46 | 567 | 1.76 | 0.29 | 31.0 |
| 4/25/2015 12:29:29 | 33.79 | 32.79 | 571 | 1.78 | 0.30 | 31.2 |
| 4/25/2015 12:29:30 | 34.12 | 33.12 | 593 | 1.76 | 0.29 | 32.4 |
| 4/25/2015 12:29:31 | 34.45 | 33.45 | 569 | 1.75 | 0.30 | 31.1 |
| 4/25/2015 12:29:32 | 34.78 | 33.78 | 581 | 1.74 | 0.29 | 31.8 |
| 4/25/2015 12:29:32 | 35.11 | 34.11 | 574 | 1.75 | 0.29 | 31.4 |
| 4/25/2015 12:29:33 | 35.43 | 34.43 | 574 | 1.75 | 0.29 | 31.4 |
| 4/25/2015 12:29:33 | 35.76 | 34.76 | 574 | 1.75 | 0.29 | 31.4 |
| 4/25/2015 12:29:34 | 36.09 | 35.09 | 552 | 1.74 | 0.29 | 30.2 |
| 4/25/2015 12:29:35 | 36.42 | 35.42 | 564 | 1.76 | 0.29 | 30.8 |
| 4/25/2015 12:29:35 | 36.75 | 35.75 | 564 | 1.76 | 0.29 | 30.8 |
| 4/25/2015 12:29:36 | 37.07 | 36.07 | 576 | 1.76 | 0.29 | 31.5 |
| 4/25/2015 12:29:36 | 37.40 | 36.40 | 569 | 1.76 | 0.29 | 31.1 |
| 4/25/2015 12:29:37 | 37.73 | 36.73 | 584 | 1.76 | 0.27 | 31.9 |
| 4/25/2015 12:29:38 | 38.06 | 37.06 | 578 | 1.78 | 0.29 | 31.6 |
| 4/25/2015 12:29:38 | 38.39 | 37.39 | 572 | 1.76 | 0.29 | 31.3 |
| 4/25/2015 12:29:39 | 38.71 | 37.71 | 572 | 1.76 | 0.29 | 31.3 |
| 4/25/2015 12:29:39 | 39.04 | 38.04 | 572 | 1.75 | 0.29 | 31.3 |
| 4/25/2015 12:29:40 | 39.37 | 38.37 | 572 | 1.76 | 0.29 | 31.3 |
| 4/25/2015 12:29:41 | 39.70 | 38.70 | 575 | 1.77 | 0.29 | 31.5 |
| 4/25/2015 12:29:42 | 40.03 | 39.03 | 572 | 1.77 | 0.29 | 31.3 |
| 4/25/2015 12:29:42 | 40.35 | 39.35 | 566 | 1.75 | 0.29 | 30.9 |
| 4/25/2015 12:29:43 | 40.68 | 39.68 | 576 | 1.76 | 0.29 | 31.5 |
| 4/25/2015 12:29:43 | 41.01 | 40.01 | 573 | 1.76 | 0.29 | 31.3 |
| 4/25/2015 12:29:44 | 41.34 | 40.34 | 576 | 1.76 | 0.29 | 31.5 |
| 4/25/2015 12:29:45 | 41.67 | 40.67 | 579 | 1.76 | 0.29 | 31.7 |
| 4/25/2015 12:29:45 | 41.99 | 40.99 | 572 | 1.76 | 0.29 | 31.3 |
| 4/25/2015 12:29:46 | 42.32 | 41.32 | 572 | 1.74 | 0.29 | 31.3 |
| 4/25/2015 12:29:46 | 42.65 | 41.65 | 569 | 1.76 | 0.29 | 31.1 |
| 4/25/2015 12:29:47 | 42.98 | 41.98 | 567 | 1.77 | 0.29 | 31.0 |
| 4/25/2015 12:29:48 | 43.31 | 42.31 | 570 | 1.78 | 0.29 | 31.1 |
| 4/25/2015 12:29:48 | 43.64 | 42.64 | 570 | 1.76 | 0.29 | 31.1 |
| 4/25/2015 12:29:49 | 43.96 | 42.96 | 572 | 1.77 | 0.29 | 31.3 |
| 4/25/2015 12:29:49 | 44.29 | 43.29 | 560 | 1.76 | 0.29 | 30.6 |
| 4/25/2015 12:29:51 | 44.62 | 43.62 | 567 | 1.76 | 0.29 | 31.0 |
| 4/25/2015 12:29:51 | 44.95 | 43.95 | 551 | 1.76 | 0.29 | 30.1 |
| 4/25/2015 12:29:52 | 45.28 | 44.28 | 551 | 1.76 | 0.29 | 30.1 |
| 4/25/2015 12:29:52 | 45.60 | 44.60 | 554 | 1.76 | 0.29 | 30.3 |
| 4/25/2015 12:29:53 | 45.93 | 44.93 | 554 | 1.76 | 0.29 | 30.3 |
| 4/25/2015 12:29:54 | 46.26 | 45.26 | 553 | 1.75 | 0.29 | 30.2 |
| 4/25/2015 12:29:54 | 46.59 | 45.59 | 566 | 1.76 | 0.29 | 30.9 |
| 4/25/2015 12:29:55 | 46.92 | 45.92 | 562 | 1.76 | 0.29 | 30.8 |
| 4/25/2015 12:29:55 | 47.24 | 46.24 | 578 | 1.78 | 0.29 | 31.6 |
| 4/25/2015 12:29:57 | 47.57 | 46.57 | 405 | 1.49 | 0.30 | 22.2 |
| 4/25/2015 12:30:14 | 47.90 | 46.90 | 94 | 1.76 | 0.99 | 5.2 |
| 4/25/2015 12:30:15 | 48.23 | 47.23 | 238 | 1.79 | 1.00 | 13.0 |
| 4/25/2015 12:31:31 | 48.56 | 47.56 | 63 | 1.76 | 1.38 | 3.5 |
| 4/25/2015 12:31:38 | 48.88 | 47.88 | 9 | 1.74 | 1.11 | 0.5 |
| 4/25/2015 12:31:59 | 49.21 | 48.21 | 63 | 1.77 | 0.97 | 3.5 |
| 4/25/2015 12:32:00 | 49.54 | 48.54 | 174 | 1.79 | 0.94 | 9.5 |
| 4/25/2015 12:32:06 | 49.87 | 48.87 | 11 | 1.77 | 1.07 | 0.6 |
| 4/25/2015 12:32:19 | 50.20 | 49.20 | 6 | 1.76 | 1.52 | 0.3 |
| 4/25/2015 12:32:20 | 50.53 | 49.53 | 132 | 1.80 | 1.29 | 7.2 |
| 4/25/2015 12:32:24 | 50.85 | 49.85 | 51 | 1.76 | 0.95 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:32:25 | 51.18 | 50.18 | 86 | 1.77 | 1.22 | 4.7 |
| 4/25/2015 | 12:32:26 | 51.51 | 50.51 | 216 | 1.76 | 0.96 | 11.8 |
| 4/25/2015 | 12:32:28 | 51.84 | 50.84 | 323 | 1.76 | 1.08 | 17.7 |
| 4/25/2015 | 12:33:27 | 52.17 | 51.17 | 34 | 1.77 | 1.05 | 1.9 |
| 4/25/2015 | 12:33:28 | 52.49 | 51.49 | 157 | 1.78 | 1.08 | 8.6 |
| 4/25/2015 | 12:33:30 | 52.82 | 51.82 | 223 | 1.75 | 1.04 | 12.2 |
| 4/25/2015 | 12:33:51 | 53.15 | 52.15 | 0 | 1.73 | 1.18 | 0.0 |
| 4/25/2015 | 12:33:53 | 53.48 | 52.48 | 129 | 1.77 | 1.13 | 7.1 |
| 4/25/2015 | 12:34:20 | 53.81 | 52.81 | 69 | 1.77 | 1.18 | 3.8 |
| 4/25/2015 | 12:34:25 | 54.13 | 53.13 | 107 | 1.76 | 1.09 | 5.8 |
| 4/25/2015 | 12:34:27 | 54.46 | 53.46 | 105 | 1.78 | 1.16 | 5.8 |
| 4/25/2015 | 12:34:30 | 54.79 | 53.79 | 104 | 1.78 | 1.08 | 5.7 |
| 4/25/2015 | 12:34:34 | 55.12 | 54.12 | 100 | 1.79 | 1.16 | 5.5 |
| 4/25/2015 | 12:34:40 | 55.45 | 54.45 | 57 | 1.79 | 1.09 | 3.1 |
| 4/25/2015 | 12:34:47 | 55.77 | 54.77 | 57 | 1.76 | 1.09 | 3.1 |
| 4/25/2015 | 12:34:52 | 56.10 | 55.10 | 64 | 1.77 | 1.15 | 3.5 |
| 4/25/2015 | 12:34:54 | 56.18 | 55.18 | 43 | 1.74 | 1.12 | 2.4 |

## H111 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:27:46

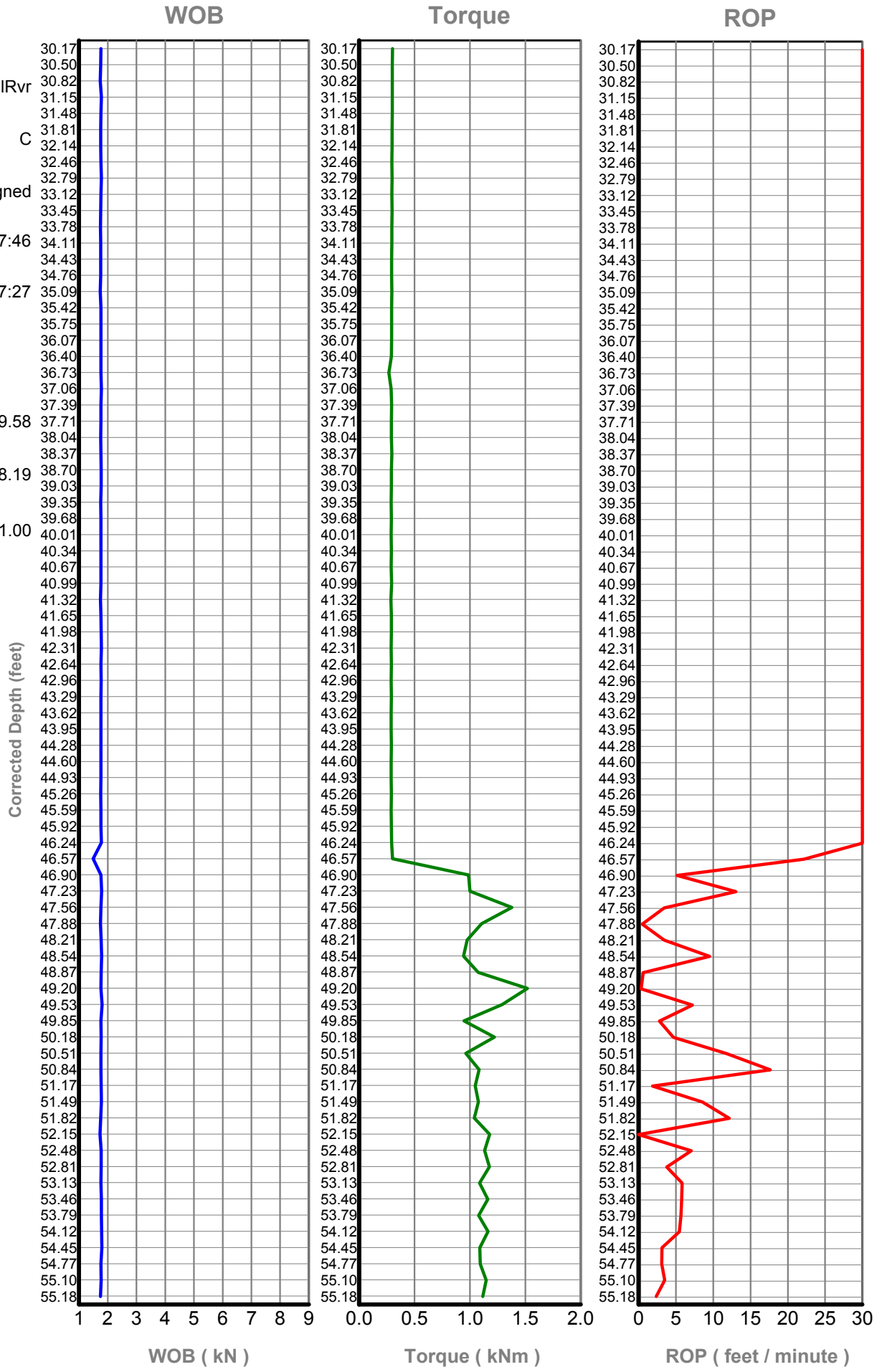
**End Date:**
4/25/2015 12:37:27

**Operator Note:**
'1 1.2C Auto Complete'

**Northing:**
366,709.58

**Easting:**
250,608.19

**Tide (feet):**
1.00



## Hole: H112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:40:49 | 33.79 | 30.19 | 980 | 0.33 | 0.31 | 53.6 |
| 4/25/2015 9:40:49 | 34.12 | 30.52 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:40:50 | 34.45 | 30.85 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:40:50 | 34.78 | 31.18 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:40:50 | 35.11 | 31.51 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:40:51 | 35.43 | 31.83 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:40:51 | 35.76 | 32.16 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:40:51 | 36.09 | 32.49 | 1,007 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 9:40:52 | 36.42 | 32.82 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:40:52 | 36.75 | 33.15 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:40:52 | 37.07 | 33.47 | 989 | 0.32 | 0.31 | 54.1 |
| 4/25/2015 9:40:53 | 37.40 | 33.80 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:40:53 | 37.73 | 34.13 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:40:53 | 38.06 | 34.46 | 980 | 0.32 | 0.32 | 53.6 |
| 4/25/2015 9:40:54 | 38.39 | 34.79 | 968 | 0.33 | 0.32 | 52.9 |
| 4/25/2015 9:40:54 | 38.71 | 35.11 | 968 | 0.33 | 0.32 | 52.9 |
| 4/25/2015 9:40:54 | 39.04 | 35.44 | 983 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:40:55 | 39.37 | 35.77 | 983 | 0.32 | 0.32 | 53.7 |
| 4/25/2015 9:40:55 | 39.70 | 36.10 | 983 | 0.32 | 0.32 | 53.7 |
| 4/25/2015 9:40:55 | 40.03 | 36.43 | 986 | 0.33 | 0.32 | 53.9 |
| 4/25/2015 9:40:56 | 40.35 | 36.75 | 975 | 0.32 | 0.32 | 53.3 |
| 4/25/2015 9:40:56 | 40.68 | 37.08 | 996 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:40:57 | 41.01 | 37.41 | 996 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:40:57 | 41.34 | 37.74 | 990 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:40:57 | 41.67 | 38.07 | 987 | 0.33 | 0.32 | 54.0 |
| 4/25/2015 9:40:58 | 41.99 | 38.39 | 987 | 0.33 | 0.32 | 54.0 |
| 4/25/2015 9:40:58 | 42.32 | 38.72 | 981 | 0.31 | 0.32 | 53.7 |
| 4/25/2015 9:40:59 | 42.65 | 39.05 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:40:59 | 42.98 | 39.38 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:40:59 | 43.31 | 39.71 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:00 | 43.64 | 40.04 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:00 | 43.96 | 40.36 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:01 | 44.29 | 40.69 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:01 | 44.62 | 41.02 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:01 | 44.95 | 41.35 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:02 | 45.28 | 41.68 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:02 | 45.60 | 42.00 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:02 | 45.93 | 42.33 | 968 | 0.33 | 0.32 | 52.9 |
| 4/25/2015 9:41:03 | 46.26 | 42.66 | 965 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:41:03 | 46.59 | 42.99 | 965 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:41:03 | 46.92 | 43.32 | 960 | 0.33 | 0.32 | 52.5 |
| 4/25/2015 9:41:04 | 47.24 | 43.64 | 960 | 0.33 | 0.31 | 52.5 |
| 4/25/2015 9:41:04 | 47.57 | 43.97 | 960 | 0.33 | 0.31 | 52.5 |
| 4/25/2015 9:41:04 | 47.90 | 44.30 | 957 | 0.33 | 0.32 | 52.3 |
| 4/25/2015 9:41:05 | 48.23 | 44.63 | 966 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:41:05 | 48.56 | 44.96 | 966 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:41:05 | 48.88 | 45.28 | 972 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:41:06 | 49.21 | 45.61 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:06 | 49.54 | 45.94 | 969 | 0.35 | 0.31 | 53.0 |
| 4/25/2015 9:41:07 | 49.87 | 46.27 | 969 | 0.35 | 0.31 | 53.0 |
| 4/25/2015 9:41:07 | 50.20 | 46.60 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:41:07 | 50.53 | 46.93 | 974 | 0.31 | 0.32 | 53.3 |
| 4/25/2015 9:41:08 | 50.85 | 47.25 | 974 | 0.31 | 0.32 | 53.3 |
| 4/25/2015 9:41:08 | 51.18 | 47.58 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:09 | 51.51 | 47.91 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:41:09 | 51.84 | 48.24 | 964 | 0.33 | 0.32 | 52.7 |
| 4/25/2015 9:41:10 | 52.17 | 48.57 | 964 | 0.33 | 0.32 | 52.7 |
| 4/25/2015 9:41:14 | 52.49 | 48.89 | 0 | 3.67 | 0.37 | 0.0 |
| 4/25/2015 9:41:16 | 52.82 | 49.22 | 114 | 8.00 | 0.40 | 6.2 |
| 4/25/2015 9:41:18 | 53.15 | 49.55 | 170 | 3.49 | 0.35 | 9.3 |
| 4/25/2015 9:41:18 | 53.48 | 49.88 | 170 | 3.18 | 0.35 | 9.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:41:19 | 53.81 | 50.21 | 241 | 3.09 | 0.36 | 13.2 |
| 4/25/2015 | 9:41:27 | 54.13 | 50.53 | 59 | 4.76 | 0.37 | 3.2 |
| 4/25/2015 | 9:41:29 | 54.46 | 50.86 | 211 | 3.24 | 0.39 | 11.5 |
| 4/25/2015 | 9:41:41 | 54.79 | 51.19 | 75 | 2.99 | 0.39 | 4.1 |
| 4/25/2015 | 9:41:43 | 55.12 | 51.52 | 159 | 3.26 | 0.38 | 8.7 |
| 4/25/2015 | 9:41:45 | 55.45 | 51.85 | 188 | 3.39 | 0.38 | 10.3 |
| 4/25/2015 | 9:41:46 | 55.77 | 52.17 | 210 | 3.69 | 0.38 | 11.5 |
| 4/25/2015 | 9:41:48 | 56.10 | 52.50 | 246 | 3.41 | 0.38 | 13.4 |
| 4/25/2015 | 9:41:56 | 56.43 | 52.83 | 78 | 4.19 | 0.39 | 4.3 |
| 4/25/2015 | 9:41:59 | 56.76 | 53.16 | 99 | 3.43 | 0.39 | 5.4 |
| 4/25/2015 | 9:42:02 | 57.09 | 53.49 | 120 | 3.46 | 0.39 | 6.6 |
| 4/25/2015 | 9:42:05 | 57.41 | 53.81 | 118 | 3.24 | 0.39 | 6.4 |
| 4/25/2015 | 9:42:07 | 57.74 | 54.14 | 152 | 3.17 | 0.36 | 8.3 |
| 4/25/2015 | 9:42:14 | 58.07 | 54.47 | 57 | 3.31 | 0.38 | 3.1 |
| 4/25/2015 | 9:42:20 | 58.40 | 54.80 | 37 | 3.41 | 0.39 | 2.0 |
| 4/25/2015 | 9:42:23 | 58.73 | 55.13 | 106 | 3.35 | 0.39 | 5.8 |

## H112 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:39:07

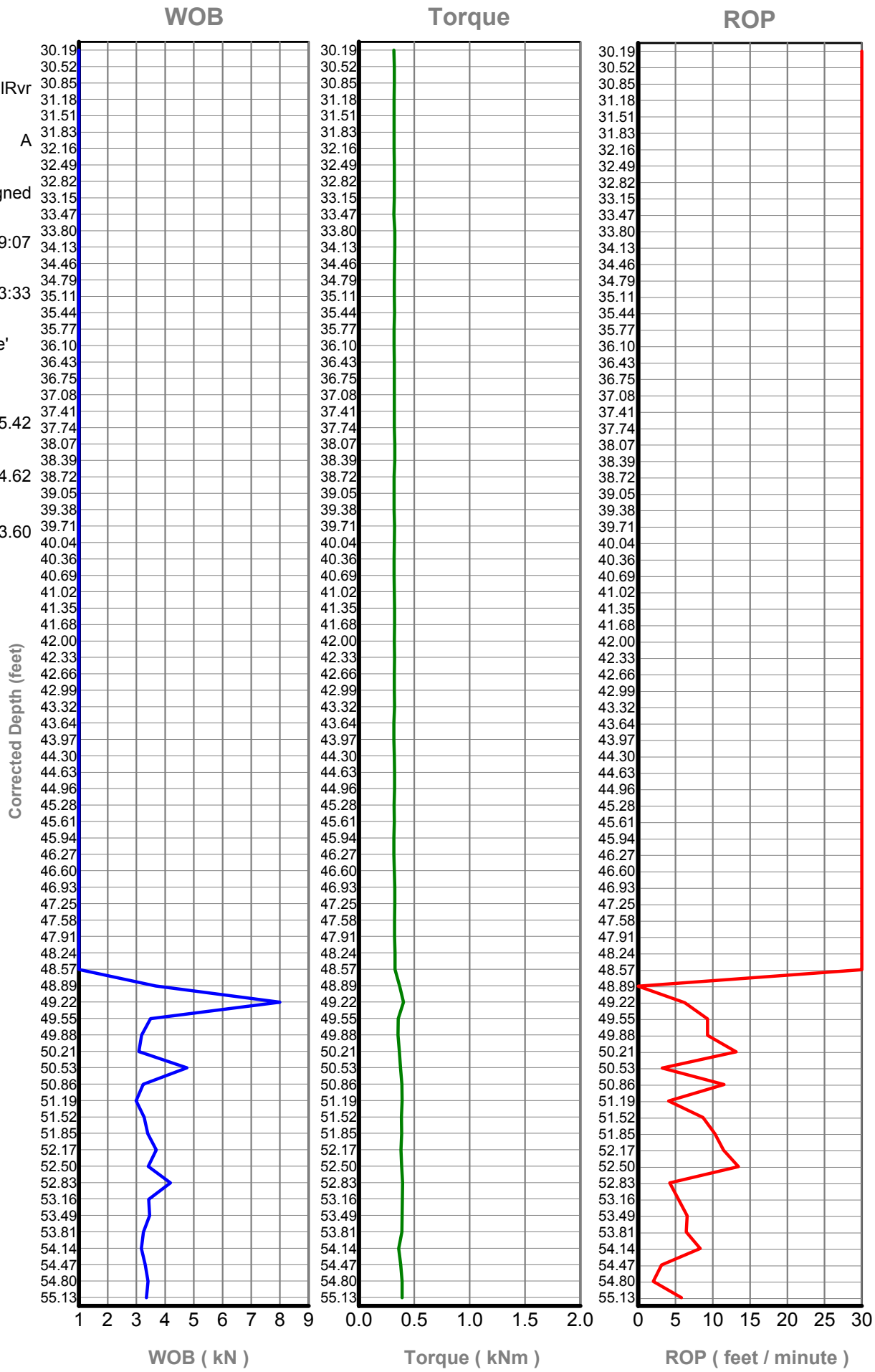
**End Date:**
4/25/2015 9:43:33

**Operator Note:**
'3.6 3.7 b Auto Complete'

**Northing:**
366,755.42

**Easting:**
250,674.62

**Tide (feet):**
3.60



## Hole: H113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:45:22 | 33.79 | 30.19 | 939 | 0.45 | 0.32 | 51.4 |
| 4/25/2015 9:45:22 | 34.12 | 30.52 | 939 | 0.45 | 0.32 | 51.4 |
| 4/25/2015 9:45:22 | 34.45 | 30.85 | 942 | 0.44 | 0.33 | 51.5 |
| 4/25/2015 9:45:23 | 34.78 | 31.18 | 942 | 0.43 | 0.32 | 51.5 |
| 4/25/2015 9:45:23 | 35.11 | 31.51 | 942 | 0.43 | 0.32 | 51.5 |
| 4/25/2015 9:45:23 | 35.43 | 31.83 | 948 | 0.43 | 0.32 | 51.8 |
| 4/25/2015 9:45:24 | 35.76 | 32.16 | 945 | 0.43 | 0.33 | 51.7 |
| 4/25/2015 9:45:24 | 36.09 | 32.49 | 945 | 0.43 | 0.33 | 51.7 |
| 4/25/2015 9:45:24 | 36.42 | 32.82 | 942 | 0.43 | 0.33 | 51.5 |
| 4/25/2015 9:45:25 | 36.75 | 33.15 | 934 | 0.38 | 0.32 | 51.1 |
| 4/25/2015 9:45:25 | 37.07 | 33.47 | 939 | 0.33 | 0.32 | 51.4 |
| 4/25/2015 9:45:26 | 37.40 | 33.80 | 939 | 0.33 | 0.32 | 51.4 |
| 4/25/2015 9:45:26 | 37.73 | 34.13 | 942 | 0.33 | 0.32 | 51.5 |
| 4/25/2015 9:45:26 | 38.06 | 34.46 | 951 | 0.36 | 0.32 | 52.0 |
| 4/25/2015 9:45:27 | 38.39 | 34.79 | 951 | 0.36 | 0.32 | 52.0 |
| 4/25/2015 9:45:27 | 38.71 | 35.11 | 960 | 0.37 | 0.32 | 52.5 |
| 4/25/2015 9:45:27 | 39.04 | 35.44 | 974 | 0.41 | 0.32 | 53.3 |
| 4/25/2015 9:45:28 | 39.37 | 35.77 | 986 | 0.33 | 0.31 | 53.9 |
| 4/25/2015 9:45:28 | 39.70 | 36.10 | 986 | 0.33 | 0.31 | 53.9 |
| 4/25/2015 9:45:28 | 40.03 | 36.43 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:45:29 | 40.35 | 36.75 | 988 | 0.35 | 0.32 | 54.0 |
| 4/25/2015 9:45:30 | 40.68 | 37.08 | 988 | 0.35 | 0.32 | 54.0 |
| 4/25/2015 9:45:30 | 41.01 | 37.41 | 1,003 | 0.35 | 0.32 | 54.9 |
| 4/25/2015 9:45:30 | 41.34 | 37.74 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:45:31 | 41.67 | 38.07 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:45:31 | 41.99 | 38.39 | 997 | 0.32 | 0.32 | 54.5 |
| 4/25/2015 9:45:31 | 42.32 | 38.72 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:45:32 | 42.65 | 39.05 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:45:32 | 42.98 | 39.38 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:45:32 | 43.31 | 39.71 | 991 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:45:33 | 43.64 | 40.04 | 991 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:45:33 | 43.96 | 40.36 | 994 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:45:33 | 44.29 | 40.69 | 991 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:45:34 | 44.62 | 41.02 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:45:34 | 44.95 | 41.35 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:45:34 | 45.28 | 41.68 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:45:35 | 45.60 | 42.00 | 977 | 0.33 | 0.32 | 53.5 |
| 4/25/2015 9:45:35 | 45.93 | 42.33 | 977 | 0.33 | 0.32 | 53.5 |
| 4/25/2015 9:45:35 | 46.26 | 42.66 | 977 | 0.33 | 0.32 | 53.5 |
| 4/25/2015 9:45:36 | 46.59 | 42.99 | 985 | 0.33 | 0.32 | 53.9 |
| 4/25/2015 9:45:36 | 46.92 | 43.32 | 985 | 0.33 | 0.32 | 53.9 |
| 4/25/2015 9:45:36 | 47.24 | 43.64 | 983 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:45:37 | 47.57 | 43.97 | 973 | 0.33 | 0.32 | 53.2 |
| 4/25/2015 9:45:37 | 47.90 | 44.30 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:45:38 | 48.23 | 44.63 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:45:38 | 48.56 | 44.96 | 994 | 0.33 | 0.31 | 54.3 |
| 4/25/2015 9:45:38 | 48.88 | 45.28 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:45:39 | 49.21 | 45.61 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:45:39 | 49.54 | 45.94 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:45:40 | 49.87 | 46.27 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:45:40 | 50.20 | 46.60 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:45:40 | 50.53 | 46.93 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:45:41 | 50.85 | 47.25 | 986 | 0.30 | 0.35 | 53.9 |
| 4/25/2015 9:45:46 | 51.18 | 47.58 | 3 | 2.76 | 0.38 | 0.1 |
| 4/25/2015 9:45:52 | 51.51 | 47.91 | 66 | 3.91 | 0.39 | 3.6 |
| 4/25/2015 9:45:54 | 51.84 | 48.24 | 124 | 3.06 | 0.38 | 6.8 |
| 4/25/2015 9:46:01 | 52.17 | 48.57 | 38 | 3.84 | 0.40 | 2.1 |
| 4/25/2015 9:46:03 | 52.49 | 48.89 | 116 | 3.84 | 0.37 | 6.3 |
| 4/25/2015 9:46:04 | 52.82 | 49.22 | 175 | 3.23 | 0.39 | 9.6 |
| 4/25/2015 9:46:07 | 53.15 | 49.55 | 182 | 3.30 | 0.39 | 10.0 |
| 4/25/2015 9:46:10 | 53.48 | 49.88 | 115 | 3.29 | 0.39 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:46:14 | 53.81 | 50.21 | 94 | 3.93 | 0.37 | 5.1 |
| 4/25/2015 | 9:46:17 | 54.13 | 50.53 | 95 | 3.05 | 0.40 | 5.2 |
| 4/25/2015 | 9:46:23 | 54.46 | 50.86 | 64 | 2.99 | 0.39 | 3.5 |
| 4/25/2015 | 9:46:28 | 54.79 | 51.19 | 66 | 3.34 | 0.40 | 3.6 |
| 4/25/2015 | 9:46:35 | 55.12 | 51.52 | 52 | 3.03 | 0.40 | 2.8 |
| 4/25/2015 | 9:46:38 | 55.28 | 51.68 | 52 | 3.02 | 0.39 | 2.8 |

## H113 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:43:40

**End Date:**
4/25/2015 9:54:28

**Operator Note:**
'3.6 3.7 b Auto Complete'

**Northing:**
366,792.43

**Easting:**
250,720.57

**Tide (feet):**
3.60



## Hole: H114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:42:18 | 33.79 | 30.19 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:19 | 34.12 | 30.52 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:20 | 34.45 | 30.85 | 587 | 1.84 | 0.30 | 32.1 |
| 4/25/2015 9:42:20 | 34.78 | 31.18 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:21 | 35.11 | 31.51 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:21 | 35.43 | 31.83 | 580 | 1.84 | 0.30 | 31.7 |
| 4/25/2015 9:42:22 | 35.76 | 32.16 | 583 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:23 | 36.09 | 32.49 | 587 | 1.84 | 0.30 | 32.1 |
| 4/25/2015 9:42:23 | 36.42 | 32.82 | 587 | 1.81 | 0.30 | 32.1 |
| 4/25/2015 9:42:24 | 36.75 | 33.15 | 590 | 1.83 | 0.30 | 32.2 |
| 4/25/2015 9:42:24 | 37.07 | 33.47 | 587 | 1.82 | 0.30 | 32.1 |
| 4/25/2015 9:42:25 | 37.40 | 33.80 | 587 | 1.85 | 0.30 | 32.1 |
| 4/25/2015 9:42:26 | 37.73 | 34.13 | 583 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:42:27 | 38.06 | 34.46 | 584 | 1.82 | 0.30 | 31.9 |
| 4/25/2015 9:42:27 | 38.39 | 34.79 | 584 | 1.82 | 0.30 | 31.9 |
| 4/25/2015 9:42:28 | 38.71 | 35.11 | 581 | 1.81 | 0.30 | 31.8 |
| 4/25/2015 9:42:28 | 39.04 | 35.44 | 577 | 1.84 | 0.30 | 31.6 |
| 4/25/2015 9:42:29 | 39.37 | 35.77 | 577 | 1.82 | 0.35 | 31.6 |
| 4/25/2015 9:42:29 | 39.70 | 36.10 | 578 | 1.83 | 0.30 | 31.6 |
| 4/25/2015 9:42:30 | 40.03 | 36.43 | 581 | 1.83 | 0.30 | 31.8 |
| 4/25/2015 9:42:31 | 40.35 | 36.75 | 571 | 1.90 | 0.31 | 31.3 |
| 4/25/2015 9:42:31 | 40.68 | 37.08 | 571 | 1.81 | 0.30 | 31.3 |
| 4/25/2015 9:42:32 | 41.01 | 37.41 | 584 | 1.80 | 0.30 | 31.9 |
| 4/25/2015 9:42:32 | 41.34 | 37.74 | 577 | 1.82 | 0.31 | 31.6 |
| 4/25/2015 9:42:33 | 41.67 | 38.07 | 571 | 1.82 | 0.30 | 31.2 |
| 4/25/2015 9:42:34 | 41.99 | 38.39 | 584 | 1.81 | 0.30 | 31.9 |
| 4/25/2015 9:42:34 | 42.32 | 38.72 | 581 | 1.83 | 0.30 | 31.8 |
| 4/25/2015 9:42:35 | 42.65 | 39.05 | 578 | 1.81 | 0.30 | 31.6 |
| 4/25/2015 9:42:36 | 42.98 | 39.38 | 578 | 1.81 | 0.30 | 31.6 |
| 4/25/2015 9:42:36 | 43.31 | 39.71 | 582 | 1.81 | 0.30 | 31.8 |
| 4/25/2015 9:42:37 | 43.64 | 40.04 | 575 | 1.81 | 0.31 | 31.5 |
| 4/25/2015 9:42:38 | 43.96 | 40.36 | 578 | 1.83 | 0.30 | 31.6 |
| 4/25/2015 9:42:38 | 44.29 | 40.69 | 571 | 1.80 | 0.30 | 31.2 |
| 4/25/2015 9:42:39 | 44.62 | 41.02 | 579 | 1.85 | 0.30 | 31.6 |
| 4/25/2015 9:42:39 | 44.95 | 41.35 | 569 | 1.81 | 0.30 | 31.1 |
| 4/25/2015 9:42:40 | 45.28 | 41.68 | 572 | 1.83 | 0.30 | 31.3 |
| 4/25/2015 9:42:41 | 45.60 | 42.00 | 574 | 1.81 | 0.30 | 31.4 |
| 4/25/2015 9:42:41 | 45.93 | 42.33 | 581 | 1.83 | 0.30 | 31.8 |
| 4/25/2015 9:42:42 | 46.26 | 42.66 | 577 | 1.82 | 0.30 | 31.6 |
| 4/25/2015 9:42:42 | 46.59 | 42.99 | 587 | 1.81 | 0.31 | 32.1 |
| 4/25/2015 9:42:43 | 46.92 | 43.32 | 578 | 1.83 | 0.31 | 31.6 |
| 4/25/2015 9:42:44 | 47.24 | 43.64 | 575 | 1.81 | 0.30 | 31.5 |
| 4/25/2015 9:42:44 | 47.57 | 43.97 | 575 | 1.81 | 0.31 | 31.4 |
| 4/25/2015 9:42:45 | 47.90 | 44.30 | 578 | 1.81 | 0.30 | 31.6 |
| 4/25/2015 9:42:45 | 48.23 | 44.63 | 578 | 1.83 | 0.30 | 31.6 |
| 4/25/2015 9:42:47 | 48.56 | 44.96 | 569 | 1.82 | 0.30 | 31.1 |
| 4/25/2015 9:42:47 | 48.88 | 45.28 | 570 | 1.84 | 0.30 | 31.2 |
| 4/25/2015 9:43:12 | 49.21 | 45.61 | 61 | 1.82 | 1.24 | 3.3 |
| 4/25/2015 9:43:14 | 49.54 | 45.94 | 91 | 1.82 | 1.18 | 5.0 |
| 4/25/2015 9:43:16 | 49.87 | 46.27 | 167 | 1.82 | 1.12 | 9.1 |
| 4/25/2015 9:43:20 | 50.20 | 46.60 | 17 | 1.84 | 1.07 | 0.9 |
| 4/25/2015 9:43:21 | 50.53 | 46.93 | 168 | 1.81 | 1.10 | 9.2 |
| 4/25/2015 9:43:22 | 50.85 | 47.25 | 290 | 1.83 | 1.09 | 15.8 |
| 4/25/2015 9:43:23 | 51.18 | 47.58 | 309 | 1.83 | 1.06 | 16.9 |
| 4/25/2015 9:43:29 | 51.51 | 47.91 | 58 | 1.87 | 1.09 | 3.2 |
| 4/25/2015 9:43:35 | 51.84 | 48.24 | 54 | 1.87 | 1.17 | 3.0 |
| 4/25/2015 9:43:42 | 52.17 | 48.57 | 49 | 1.91 | 1.13 | 2.7 |
| 4/25/2015 9:43:49 | 52.49 | 48.89 | 60 | 1.87 | 1.15 | 3.3 |
| 4/25/2015 9:43:55 | 52.82 | 49.22 | 52 | 1.89 | 1.18 | 2.8 |
| 4/25/2015 9:44:02 | 53.15 | 49.55 | 61 | 1.85 | 1.14 | 3.3 |
| 4/25/2015 9:44:06 | 53.48 | 49.88 | 100 | 1.91 | 1.18 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:44:14 | 53.81 | 50.21 | 44 | 1.87 | 1.14 | 2.4 |
| 4/25/2015 | 9:44:22 | 54.13 | 50.53 | 43 | 1.91 | 1.16 | 2.4 |
| 4/25/2015 | 9:44:31 | 54.46 | 50.86 | 40 | 1.89 | 1.05 | 2.2 |
| 4/25/2015 | 9:44:33 | 54.55 | 50.95 | 42 | 1.92 | 1.21 | 2.3 |

## H114 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:40:41

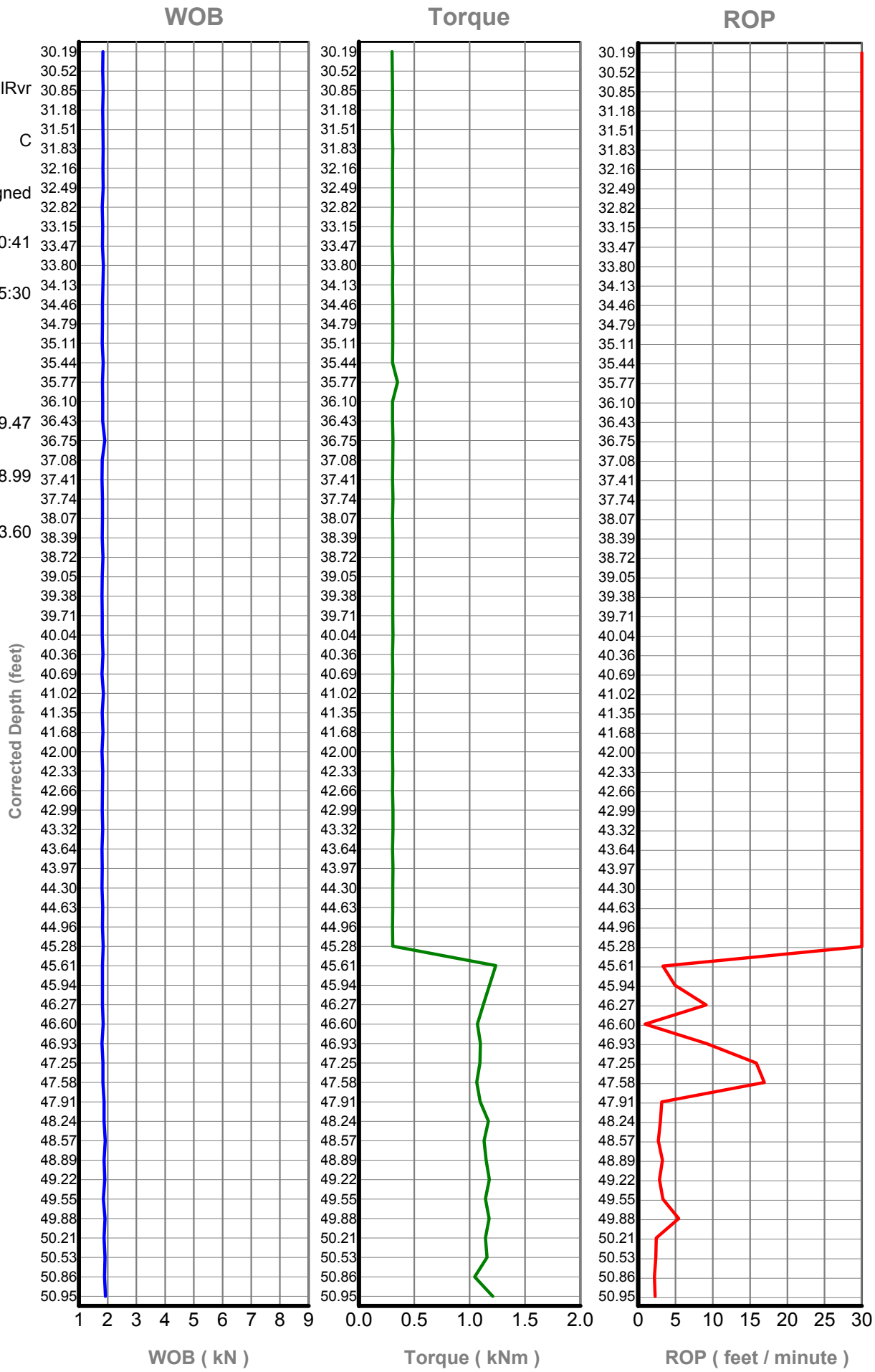
**End Date:**
4/25/2015 9:45:30

**Operator Note:**
'3.6 3.9 C Auto Complete'

**Northing:**
366,839.47

**Easting:**
250,778.99

**Tide (feet):**
3.60



## Hole: H115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:58:39 | 32.48 | 30.28 | 623 | 0.13 | 0.37 | 34.1 |
| 4/24/2015 21:58:46 | 32.81 | 30.61 | 0 | 0.16 | 0.33 | 0.0 |
| 4/24/2015 21:58:47 | 33.14 | 30.94 | 82 | 0.18 | 0.32 | 4.5 |
| 4/24/2015 21:58:47 | 33.46 | 31.26 | 260 | 0.18 | 0.32 | 14.2 |
| 4/24/2015 21:58:48 | 33.79 | 31.59 | 260 | 0.18 | 0.32 | 14.2 |
| 4/24/2015 21:58:48 | 34.12 | 31.92 | 260 | 0.18 | 0.32 | 14.2 |
| 4/24/2015 21:58:48 | 34.45 | 32.25 | 460 | 0.18 | 0.32 | 25.2 |
| 4/24/2015 21:58:49 | 34.78 | 32.58 | 643 | 0.18 | 0.33 | 35.2 |
| 4/24/2015 21:58:49 | 35.11 | 32.91 | 643 | 0.18 | 0.33 | 35.2 |
| 4/24/2015 21:58:49 | 35.43 | 33.23 | 835 | 0.18 | 0.33 | 45.7 |
| 4/24/2015 21:58:50 | 35.76 | 33.56 | 933 | 0.18 | 0.32 | 51.0 |
| 4/24/2015 21:58:50 | 36.09 | 33.89 | 935 | 0.17 | 0.32 | 51.2 |
| 4/24/2015 21:58:51 | 36.42 | 34.22 | 935 | 0.17 | 0.32 | 51.2 |
| 4/24/2015 21:58:51 | 36.75 | 34.55 | 935 | 0.18 | 0.32 | 51.2 |
| 4/24/2015 21:58:51 | 37.07 | 34.87 | 940 | 0.18 | 0.32 | 51.4 |
| 4/24/2015 21:58:52 | 37.40 | 35.20 | 940 | 0.18 | 0.32 | 51.4 |
| 4/24/2015 21:58:52 | 37.73 | 35.53 | 948 | 0.18 | 0.32 | 51.9 |
| 4/24/2015 21:58:52 | 38.06 | 35.86 | 933 | 0.18 | 0.32 | 51.0 |
| 4/24/2015 21:58:53 | 38.39 | 36.19 | 933 | 0.18 | 0.32 | 51.0 |
| 4/24/2015 21:58:53 | 38.71 | 36.51 | 933 | 0.18 | 0.32 | 51.0 |
| 4/24/2015 21:58:53 | 39.04 | 36.84 | 956 | 0.18 | 0.32 | 52.3 |
| 4/24/2015 21:58:54 | 39.37 | 37.17 | 973 | 0.18 | 0.32 | 53.2 |
| 4/24/2015 21:58:55 | 39.70 | 37.50 | 973 | 0.18 | 0.32 | 53.2 |
| 4/24/2015 21:58:55 | 40.03 | 37.83 | 956 | 0.18 | 0.32 | 52.3 |
| 4/24/2015 21:58:55 | 40.35 | 38.15 | 956 | 0.18 | 0.32 | 52.3 |
| 4/24/2015 21:58:56 | 40.68 | 38.48 | 975 | 0.18 | 0.32 | 53.3 |
| 4/24/2015 21:58:56 | 41.01 | 38.81 | 975 | 0.18 | 0.32 | 53.3 |
| 4/24/2015 21:58:56 | 41.34 | 39.14 | 965 | 0.18 | 0.32 | 52.8 |
| 4/24/2015 21:58:57 | 41.67 | 39.47 | 968 | 0.18 | 0.32 | 53.0 |
| 4/24/2015 21:58:57 | 41.99 | 39.79 | 968 | 0.18 | 0.32 | 53.0 |
| 4/24/2015 21:58:57 | 42.32 | 40.12 | 974 | 0.18 | 0.32 | 53.3 |
| 4/24/2015 21:58:58 | 42.65 | 40.45 | 977 | 0.18 | 0.32 | 53.4 |
| 4/24/2015 21:58:58 | 42.98 | 40.78 | 977 | 0.18 | 0.32 | 53.4 |
| 4/24/2015 21:58:58 | 43.31 | 41.11 | 983 | 0.18 | 0.32 | 53.7 |
| 4/24/2015 21:58:59 | 43.64 | 41.44 | 980 | 0.18 | 0.32 | 53.6 |
| 4/24/2015 21:58:59 | 43.96 | 41.76 | 971 | 0.18 | 0.32 | 53.1 |
| 4/24/2015 21:59:00 | 44.29 | 42.09 | 971 | 0.18 | 0.32 | 53.1 |
| 4/24/2015 21:59:00 | 44.62 | 42.42 | 980 | 0.18 | 0.32 | 53.6 |
| 4/24/2015 21:59:00 | 44.95 | 42.75 | 964 | 0.18 | 0.33 | 52.7 |
| 4/24/2015 21:59:01 | 45.28 | 43.08 | 964 | 0.18 | 0.33 | 52.7 |
| 4/24/2015 21:59:01 | 45.60 | 43.40 | 964 | 0.18 | 0.32 | 52.7 |
| 4/24/2015 21:59:01 | 45.93 | 43.73 | 964 | 0.18 | 0.32 | 52.7 |
| 4/24/2015 21:59:02 | 46.26 | 44.06 | 960 | 0.18 | 0.32 | 52.5 |
| 4/24/2015 21:59:02 | 46.59 | 44.39 | 960 | 0.18 | 0.32 | 52.5 |
| 4/24/2015 21:59:02 | 46.92 | 44.72 | 966 | 0.18 | 0.32 | 52.8 |
| 4/24/2015 21:59:03 | 47.24 | 45.04 | 969 | 0.18 | 0.35 | 53.0 |
| 4/24/2015 21:59:03 | 47.57 | 45.37 | 916 | 0.16 | 0.39 | 50.1 |
| 4/24/2015 21:59:27 | 47.90 | 45.70 | 49 | 3.96 | 0.40 | 2.7 |
| 4/24/2015 21:59:35 | 48.23 | 46.03 | 84 | 3.50 | 0.40 | 4.6 |
| 4/24/2015 21:59:38 | 48.56 | 46.36 | 133 | 3.63 | 0.39 | 7.3 |
| 4/24/2015 21:59:40 | 48.88 | 46.68 | 150 | 3.75 | 0.39 | 8.2 |
| 4/24/2015 21:59:42 | 49.21 | 47.01 | 168 | 3.76 | 0.39 | 9.2 |
| 4/24/2015 21:59:45 | 49.54 | 47.34 | 133 | 4.55 | 0.39 | 7.3 |
| 4/24/2015 21:59:48 | 49.87 | 47.67 | 145 | 3.43 | 0.39 | 7.9 |
| 4/24/2015 21:59:50 | 50.20 | 48.00 | 136 | 3.83 | 0.39 | 7.4 |
| 4/24/2015 21:59:53 | 50.53 | 48.33 | 111 | 3.69 | 0.40 | 6.1 |
| 4/24/2015 21:59:57 | 50.85 | 48.65 | 90 | 3.73 | 0.40 | 4.9 |
| 4/24/2015 22:00:01 | 51.18 | 48.98 | 90 | 4.17 | 0.39 | 4.9 |
| 4/24/2015 22:00:06 | 51.51 | 49.31 | 73 | 3.55 | 0.40 | 4.0 |
| 4/24/2015 22:00:10 | 51.84 | 49.64 | 90 | 3.92 | 0.39 | 4.9 |
| 4/24/2015 22:00:13 | 52.17 | 49.97 | 104 | 4.08 | 0.40 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:00:18 | 52.49 | 50.29 | 75 | 4.05 | 0.40 | 4.1 |
| 4/24/2015 | 22:00:23 | 52.82 | 50.62 | 72 | 4.12 | 0.40 | 4.0 |
| 4/24/2015 | 22:00:40 | 53.15 | 50.95 | 26 | 3.98 | 0.40 | 1.4 |
| 4/24/2015 | 22:00:45 | 53.48 | 51.28 | 63 | 3.94 | 0.39 | 3.5 |
| 4/24/2015 | 22:00:51 | 53.81 | 51.61 | 57 | 3.33 | 0.40 | 3.1 |
| 4/24/2015 | 22:00:56 | 54.13 | 51.93 | 75 | 3.60 | 0.40 | 4.1 |
| 4/24/2015 | 22:01:01 | 54.46 | 52.26 | 79 | 3.52 | 0.39 | 4.3 |
| 4/24/2015 | 22:01:05 | 54.79 | 52.59 | 75 | 3.60 | 0.40 | 4.1 |
| 4/24/2015 | 22:01:11 | 55.12 | 52.92 | 63 | 3.80 | 0.40 | 3.4 |
| 4/24/2015 | 22:01:17 | 55.45 | 53.25 | 52 | 2.99 | 0.39 | 2.8 |
| 4/24/2015 | 22:01:26 | 55.77 | 53.57 | 43 | 3.06 | 0.39 | 2.4 |
| 4/24/2015 | 22:01:31 | 56.03 | 53.83 | 55 | 3.30 | 0.40 | 3.0 |

## H115 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 21:53:09

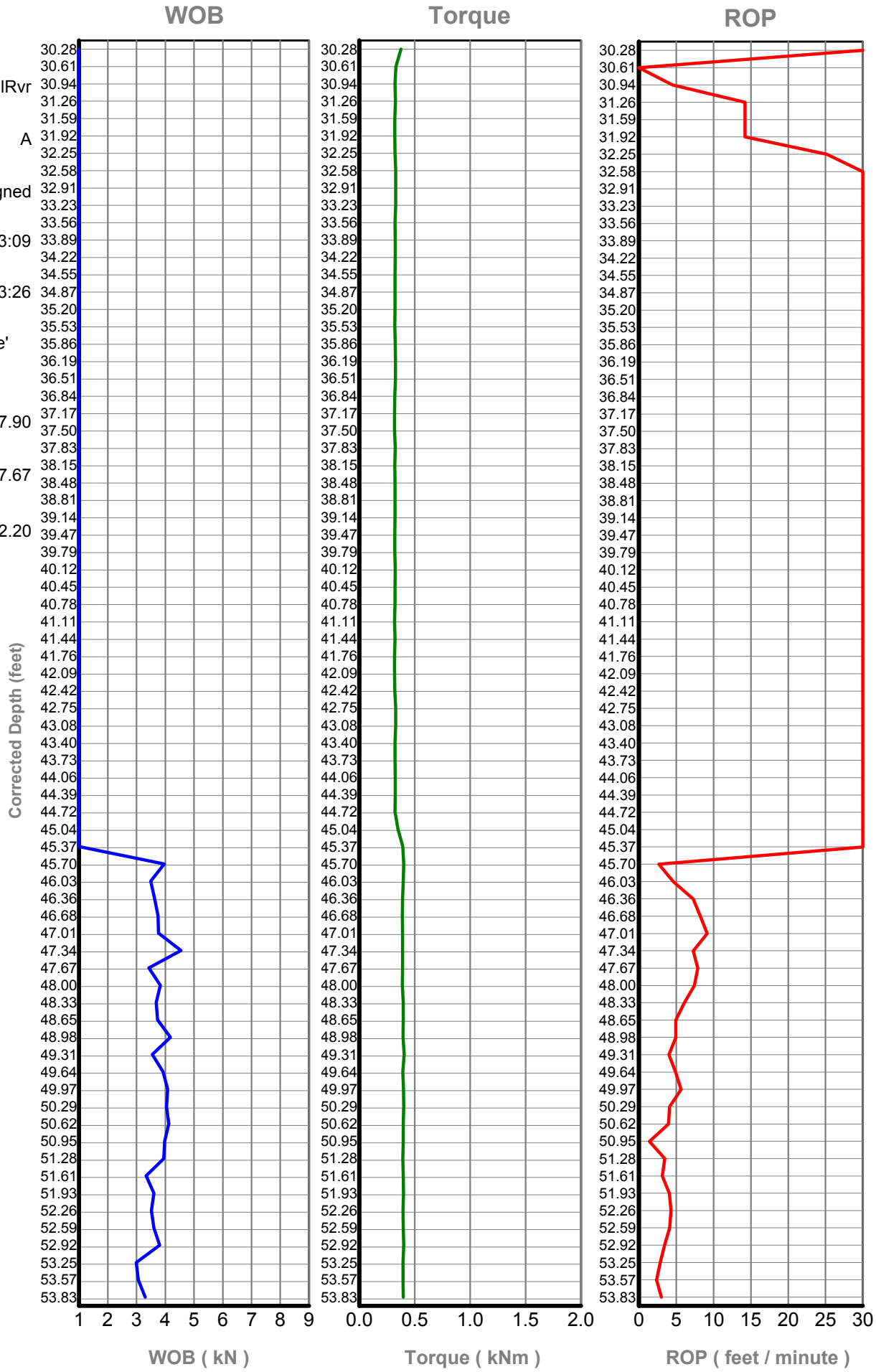
**End Date:**
4/24/2015 22:03:26

**Operator Note:**
'2.2 1.9 b Auto Complete'

**Northing:**
366,897.90

**Easting:**
250,847.67

**Tide (feet):**
2.20



## Hole: H116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:09:10 | 32.15 | 30.15 | 1,015 | 0.19 | 0.31 | 55.5 |
| 4/24/2015 22:09:11 | 32.48 | 30.48 | 1,014 | 0.18 | 0.31 | 55.5 |
| 4/24/2015 22:09:11 | 32.81 | 30.81 | 1,014 | 0.18 | 0.31 | 55.5 |
| 4/24/2015 22:09:11 | 33.14 | 31.14 | 1,029 | 0.19 | 0.31 | 56.3 |
| 4/24/2015 22:09:12 | 33.46 | 31.46 | 1,029 | 0.19 | 0.31 | 56.3 |
| 4/24/2015 22:09:12 | 33.79 | 31.79 | 1,029 | 0.19 | 0.31 | 56.3 |
| 4/24/2015 22:09:12 | 34.12 | 32.12 | 1,032 | 0.19 | 0.32 | 56.4 |
| 4/24/2015 22:09:13 | 34.45 | 32.45 | 1,029 | 0.19 | 0.32 | 56.3 |
| 4/24/2015 22:09:13 | 34.78 | 32.78 | 1,029 | 0.19 | 0.32 | 56.3 |
| 4/24/2015 22:09:13 | 35.11 | 33.11 | 1,032 | 0.18 | 0.31 | 56.4 |
| 4/24/2015 22:09:14 | 35.43 | 33.43 | 1,023 | 0.19 | 0.32 | 55.9 |
| 4/24/2015 22:09:14 | 35.76 | 33.76 | 1,023 | 0.19 | 0.32 | 55.9 |
| 4/24/2015 22:09:14 | 36.09 | 34.09 | 1,017 | 0.18 | 0.32 | 55.6 |
| 4/24/2015 22:09:15 | 36.42 | 34.42 | 1,003 | 0.19 | 0.32 | 54.8 |
| 4/24/2015 22:09:15 | 36.75 | 34.75 | 1,003 | 0.19 | 0.32 | 54.8 |
| 4/24/2015 22:09:15 | 37.07 | 35.07 | 1,015 | 0.18 | 0.32 | 55.5 |
| 4/24/2015 22:09:16 | 37.40 | 35.40 | 1,013 | 0.18 | 0.31 | 55.4 |
| 4/24/2015 22:09:16 | 37.73 | 35.73 | 1,013 | 0.18 | 0.31 | 55.4 |
| 4/24/2015 22:09:16 | 38.06 | 36.06 | 1,018 | 0.18 | 0.31 | 55.7 |
| 4/24/2015 22:09:17 | 38.39 | 36.39 | 1,024 | 0.19 | 0.32 | 56.0 |
| 4/24/2015 22:09:17 | 38.71 | 36.71 | 1,024 | 0.19 | 0.32 | 56.0 |
| 4/24/2015 22:09:17 | 39.04 | 37.04 | 1,036 | 0.19 | 0.32 | 56.6 |
| 4/24/2015 22:09:18 | 39.37 | 37.37 | 1,029 | 0.19 | 0.32 | 56.3 |
| 4/24/2015 22:09:18 | 39.70 | 37.70 | 1,029 | 0.19 | 0.32 | 56.3 |
| 4/24/2015 22:09:19 | 40.03 | 38.03 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/24/2015 22:09:19 | 40.35 | 38.35 | 1,017 | 0.19 | 0.31 | 55.6 |
| 4/24/2015 22:09:20 | 40.68 | 38.68 | 1,017 | 0.19 | 0.31 | 55.6 |
| 4/24/2015 22:09:20 | 41.01 | 39.01 | 1,030 | 0.19 | 0.32 | 56.3 |
| 4/24/2015 22:09:20 | 41.34 | 39.34 | 1,027 | 0.18 | 0.32 | 56.2 |
| 4/24/2015 22:09:21 | 41.67 | 39.67 | 1,027 | 0.18 | 0.32 | 56.2 |
| 4/24/2015 22:09:21 | 41.99 | 39.99 | 1,027 | 0.19 | 0.32 | 56.2 |
| 4/24/2015 22:09:21 | 42.32 | 40.32 | 1,027 | 0.18 | 0.31 | 56.2 |
| 4/24/2015 22:09:22 | 42.65 | 40.65 | 1,027 | 0.18 | 0.31 | 56.2 |
| 4/24/2015 22:09:22 | 42.98 | 40.98 | 1,027 | 0.18 | 0.31 | 56.2 |
| 4/24/2015 22:09:22 | 43.31 | 41.31 | 1,027 | 0.18 | 0.31 | 56.2 |
| 4/24/2015 22:09:23 | 43.64 | 41.64 | 1,027 | 0.18 | 0.31 | 56.2 |
| 4/24/2015 22:09:23 | 43.96 | 41.96 | 1,027 | 0.18 | 0.32 | 56.2 |
| 4/24/2015 22:09:23 | 44.29 | 42.29 | 1,021 | 0.19 | 0.31 | 55.8 |
| 4/24/2015 22:09:24 | 44.62 | 42.62 | 1,021 | 0.19 | 0.31 | 55.8 |
| 4/24/2015 22:09:24 | 44.95 | 42.95 | 1,030 | 0.18 | 0.32 | 56.3 |
| 4/24/2015 22:09:24 | 45.28 | 43.28 | 1,033 | 0.17 | 0.31 | 56.5 |
| 4/24/2015 22:09:25 | 45.60 | 43.60 | 1,023 | -0.10 | 0.31 | 56.0 |
| 4/24/2015 22:09:25 | 45.93 | 43.93 | 1,023 | -0.10 | 0.31 | 56.0 |
| 4/24/2015 22:09:25 | 46.26 | 44.26 | 1,021 | 0.18 | 0.31 | 55.8 |
| 4/24/2015 22:09:26 | 46.59 | 44.59 | 1,027 | 0.18 | 0.36 | 56.1 |
| 4/24/2015 22:09:48 | 46.92 | 44.92 | 0 | 2.91 | 0.36 | 0.0 |
| 4/24/2015 22:09:56 | 47.24 | 45.24 | 54 | 3.67 | 0.39 | 2.9 |
| 4/24/2015 22:10:00 | 47.57 | 45.57 | 87 | 3.72 | 0.40 | 4.7 |
| 4/24/2015 22:10:04 | 47.90 | 45.90 | 95 | 3.92 | 0.40 | 5.2 |
| 4/24/2015 22:10:10 | 48.23 | 46.23 | 70 | 4.44 | 0.40 | 3.8 |
| 4/24/2015 22:10:14 | 48.56 | 46.56 | 71 | 4.57 | 0.39 | 3.9 |
| 4/24/2015 22:10:18 | 48.88 | 46.88 | 92 | 3.81 | 0.40 | 5.0 |
| 4/24/2015 22:10:23 | 49.21 | 47.21 | 64 | 3.67 | 0.40 | 3.5 |
| 4/24/2015 22:10:28 | 49.54 | 47.54 | 65 | 3.56 | 0.40 | 3.5 |
| 4/24/2015 22:10:34 | 49.87 | 47.87 | 69 | 3.86 | 0.40 | 3.8 |
| 4/24/2015 22:10:39 | 50.20 | 48.20 | 66 | 3.99 | 0.41 | 3.6 |
| 4/24/2015 22:10:39 | 50.24 | 48.24 | 65 | 3.96 | 0.40 | 3.6 |

## H116 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:04:58

**End Date:**
4/24/2015 22:12:16

**Operator Note:**
'2 2 b Auto Complete'

**Northing:**
366,936.90

**Easting:**
250,891.94

**Tide (feet):**
2.00



## Hole: H117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:59:14 | 32.48 | 30.28 | 665 | 1.98 | 0.16 | 36.4 |
| 4/24/2015 21:59:14 | 32.81 | 30.61 | 662 | 1.98 | 0.16 | 36.2 |
| 4/24/2015 21:59:15 | 33.14 | 30.94 | 658 | 1.97 | 0.16 | 36.0 |
| 4/24/2015 21:59:15 | 33.46 | 31.26 | 661 | 1.98 | 0.16 | 36.1 |
| 4/24/2015 21:59:16 | 33.79 | 31.59 | 662 | 1.99 | 0.16 | 36.2 |
| 4/24/2015 21:59:17 | 34.12 | 31.92 | 662 | 1.97 | 0.16 | 36.2 |
| 4/24/2015 21:59:17 | 34.45 | 32.25 | 662 | 1.98 | 0.15 | 36.2 |
| 4/24/2015 21:59:18 | 34.78 | 32.58 | 665 | 1.97 | 0.16 | 36.4 |
| 4/24/2015 21:59:18 | 35.11 | 32.91 | 663 | 1.99 | 0.16 | 36.3 |
| 4/24/2015 21:59:19 | 35.43 | 33.23 | 659 | 1.96 | 0.16 | 36.0 |
| 4/24/2015 21:59:19 | 35.76 | 33.56 | 638 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 21:59:20 | 36.09 | 33.89 | 638 | 1.99 | 0.16 | 34.9 |
| 4/24/2015 21:59:21 | 36.42 | 34.22 | 638 | 1.99 | 0.16 | 34.9 |
| 4/24/2015 21:59:21 | 36.75 | 34.55 | 650 | 1.98 | 0.16 | 35.5 |
| 4/24/2015 21:59:21 | 37.07 | 34.87 | 647 | 1.98 | 0.16 | 35.4 |
| 4/24/2015 21:59:22 | 37.40 | 35.20 | 646 | 1.99 | 0.16 | 35.3 |
| 4/24/2015 21:59:22 | 37.73 | 35.53 | 653 | 1.93 | 0.15 | 35.7 |
| 4/24/2015 21:59:23 | 38.06 | 35.86 | 667 | 2.00 | 0.16 | 36.5 |
| 4/24/2015 21:59:23 | 38.39 | 36.19 | 658 | 1.98 | 0.16 | 36.0 |
| 4/24/2015 21:59:24 | 38.71 | 36.51 | 662 | 1.99 | 0.16 | 36.2 |
| 4/24/2015 21:59:25 | 39.04 | 36.84 | 666 | 2.00 | 0.15 | 36.4 |
| 4/24/2015 21:59:25 | 39.37 | 37.17 | 637 | 1.97 | 0.16 | 34.8 |
| 4/24/2015 21:59:25 | 39.70 | 37.50 | 637 | 1.97 | 0.15 | 34.8 |
| 4/24/2015 21:59:26 | 40.03 | 37.83 | 655 | 1.98 | 0.16 | 35.8 |
| 4/24/2015 21:59:27 | 40.35 | 38.15 | 652 | 1.98 | 0.16 | 35.7 |
| 4/24/2015 21:59:28 | 40.68 | 38.48 | 648 | 1.96 | 0.16 | 35.5 |
| 4/24/2015 21:59:28 | 41.01 | 38.81 | 677 | 1.98 | 0.16 | 37.0 |
| 4/24/2015 21:59:29 | 41.34 | 39.14 | 659 | 1.97 | 0.15 | 36.0 |
| 4/24/2015 21:59:29 | 41.67 | 39.47 | 659 | 1.98 | 0.16 | 36.0 |
| 4/24/2015 21:59:30 | 41.99 | 39.79 | 659 | 1.98 | 0.16 | 36.0 |
| 4/24/2015 21:59:30 | 42.32 | 40.12 | 663 | 1.98 | 0.16 | 36.3 |
| 4/24/2015 21:59:31 | 42.65 | 40.45 | 659 | 1.98 | 0.16 | 36.0 |
| 4/24/2015 21:59:31 | 42.98 | 40.78 | 643 | 1.98 | 0.16 | 35.1 |
| 4/24/2015 21:59:32 | 43.31 | 41.11 | 643 | 1.98 | 0.16 | 35.1 |
| 4/24/2015 21:59:32 | 43.64 | 41.44 | 650 | 1.98 | 0.16 | 35.5 |
| 4/24/2015 21:59:33 | 43.96 | 41.76 | 633 | 1.99 | 0.16 | 34.6 |
| 4/24/2015 21:59:33 | 44.29 | 42.09 | 633 | 1.98 | 0.16 | 34.6 |
| 4/24/2015 21:59:34 | 44.62 | 42.42 | 640 | 2.00 | 0.15 | 35.0 |
| 4/24/2015 21:59:34 | 44.95 | 42.75 | 641 | 2.00 | 0.16 | 35.0 |
| 4/24/2015 21:59:35 | 45.28 | 43.08 | 661 | 1.99 | 0.16 | 36.1 |
| 4/24/2015 21:59:35 | 45.60 | 43.40 | 651 | 1.99 | 0.16 | 35.6 |
| 4/24/2015 21:59:36 | 45.93 | 43.73 | 666 | 1.99 | 0.16 | 36.4 |
| 4/24/2015 21:59:37 | 46.26 | 44.06 | 656 | 1.98 | 0.15 | 35.9 |
| 4/24/2015 21:59:37 | 46.59 | 44.39 | 646 | 1.98 | 0.16 | 35.3 |
| 4/24/2015 21:59:56 | 46.92 | 44.72 | 0 | 2.02 | 1.14 | 0.0 |
| 4/24/2015 22:00:04 | 47.24 | 45.04 | 91 | 2.01 | 1.31 | 5.0 |
| 4/24/2015 22:00:09 | 47.57 | 45.37 | 75 | 2.02 | 1.28 | 4.1 |
| 4/24/2015 22:00:13 | 47.90 | 45.70 | 82 | 2.00 | 1.21 | 4.5 |
| 4/24/2015 22:00:18 | 48.23 | 46.03 | 71 | 2.02 | 1.20 | 3.9 |
| 4/24/2015 22:00:22 | 48.56 | 46.36 | 94 | 2.02 | 1.21 | 5.2 |
| 4/24/2015 22:00:25 | 48.88 | 46.68 | 102 | 2.00 | 1.19 | 5.6 |
| 4/24/2015 22:00:28 | 49.21 | 47.01 | 133 | 2.00 | 1.22 | 7.3 |
| 4/24/2015 22:00:38 | 49.54 | 47.34 | 32 | 2.02 | 1.24 | 1.7 |
| 4/24/2015 22:00:42 | 49.87 | 47.67 | 89 | 2.19 | 1.21 | 4.8 |
| 4/24/2015 22:00:46 | 50.20 | 48.00 | 95 | 2.02 | 1.23 | 5.2 |
| 4/24/2015 22:00:46 | 50.28 | 48.08 | 99 | 2.00 | 1.25 | 5.4 |

## H117 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 21:57:49

**End Date:**
4/24/2015 22:02:20

**Operator Note:**
'2.2 2.2 c Auto Complete'

**Northing:**
366,986.48

**Easting:**
250,948.22

**Tide (feet):**
2.20



## Hole: H118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:36:56 | 32.15 | 30.25 | 910 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:36:57 | 32.48 | 30.58 | 910 | 0.26 | 0.31 | 49.8 |
| 4/24/2015 9:36:57 | 32.81 | 30.91 | 910 | 0.26 | 0.31 | 49.8 |
| 4/24/2015 9:36:57 | 33.14 | 31.24 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:36:58 | 33.46 | 31.56 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:36:58 | 33.79 | 31.89 | 925 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 9:36:59 | 34.12 | 32.22 | 925 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 9:36:59 | 34.45 | 32.55 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:36:59 | 34.78 | 32.88 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:37:00 | 35.11 | 33.21 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:37:01 | 35.43 | 33.53 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:37:01 | 35.76 | 33.86 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:37:01 | 36.09 | 34.19 | 931 | 0.34 | 0.32 | 50.9 |
| 4/24/2015 9:37:02 | 36.42 | 34.52 | 917 | 0.35 | 0.31 | 50.1 |
| 4/24/2015 9:37:02 | 36.75 | 34.85 | 917 | 0.35 | 0.31 | 50.1 |
| 4/24/2015 9:37:02 | 37.07 | 35.17 | 932 | 0.35 | 0.32 | 51.0 |
| 4/24/2015 9:37:03 | 37.40 | 35.50 | 929 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 9:37:03 | 37.73 | 35.83 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:37:04 | 38.06 | 36.16 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:37:04 | 38.39 | 36.49 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:37:04 | 38.71 | 36.81 | 937 | 0.34 | 0.32 | 51.2 |
| 4/24/2015 9:37:05 | 39.04 | 37.14 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:37:05 | 39.37 | 37.47 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:37:05 | 39.70 | 37.80 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:37:06 | 40.03 | 38.13 | 928 | 0.35 | 0.32 | 50.8 |
| 4/24/2015 9:37:06 | 40.35 | 38.45 | 928 | 0.35 | 0.32 | 50.8 |
| 4/24/2015 9:37:06 | 40.68 | 38.78 | 939 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:37:07 | 41.01 | 39.11 | 939 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:37:07 | 41.34 | 39.44 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:37:08 | 41.67 | 39.77 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:37:08 | 41.99 | 40.09 | 937 | 0.35 | 0.31 | 51.2 |
| 4/24/2015 9:37:08 | 42.32 | 40.42 | 939 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:37:09 | 42.65 | 40.75 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:37:09 | 42.98 | 41.08 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:37:09 | 43.31 | 41.41 | 934 | 0.35 | 0.31 | 51.1 |
| 4/24/2015 9:37:10 | 43.64 | 41.74 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:37:11 | 43.96 | 42.06 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:37:10 | 44.29 | 42.39 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:37:11 | 44.62 | 42.72 | 936 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:37:12 | 44.95 | 43.05 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:37:12 | 45.28 | 43.38 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:37:12 | 45.60 | 43.70 | 923 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 9:37:13 | 45.93 | 44.03 | 920 | 0.34 | 0.33 | 50.3 |
| 4/24/2015 9:37:13 | 46.26 | 44.36 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 9:37:17 | 46.59 | 44.69 | 0 | 3.20 | 0.34 | 0.0 |
| 4/24/2015 9:37:19 | 46.92 | 45.02 | 77 | 4.09 | 0.37 | 4.2 |
| 4/24/2015 9:37:25 | 47.24 | 45.34 | 0 | 3.56 | 0.35 | 0.0 |
| 4/24/2015 9:37:28 | 47.57 | 45.67 | 158 | 3.26 | 0.38 | 8.6 |
| 4/24/2015 9:37:30 | 47.90 | 46.00 | 165 | 4.40 | 0.38 | 9.0 |
| 4/24/2015 9:37:33 | 48.23 | 46.33 | 138 | 4.72 | 0.38 | 7.6 |
| 4/24/2015 9:37:35 | 48.56 | 46.66 | 142 | 3.77 | 0.38 | 7.7 |
| 4/24/2015 9:37:52 | 48.88 | 46.98 | 20 | 3.99 | 0.39 | 1.1 |
| 4/24/2015 9:38:01 | 49.21 | 47.31 | 37 | 3.13 | 0.39 | 2.0 |
| 4/24/2015 9:38:10 | 49.54 | 47.64 | 49 | 3.07 | 0.39 | 2.7 |
| 4/24/2015 9:38:17 | 49.87 | 47.97 | 69 | 3.54 | 0.39 | 3.8 |
| 4/24/2015 9:38:20 | 50.00 | 48.10 | 44 | 3.36 | 0.39 | 2.4 |

## H118 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:35:13

**End Date:**
4/24/2015 9:39:33

**Operator Note:**
'1.9 2.0 b Rock'

**Northing:**
367,043.52

**Easting:**
251,025.70

**Tide (feet):**
1.90



## Hole: H119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:33:10 | 32.15 | 30.15 | 888 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:33:10 | 32.48 | 30.48 | 888 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 9:33:10 | 32.81 | 30.81 | 897 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:33:11 | 33.14 | 31.14 | 908 | 0.34 | 0.32 | 49.6 |
| 4/24/2015 9:33:11 | 33.46 | 31.46 | 908 | 0.34 | 0.32 | 49.6 |
| 4/24/2015 9:33:11 | 33.79 | 31.79 | 919 | 0.34 | 0.32 | 50.3 |
| 4/24/2015 9:33:12 | 34.12 | 32.12 | 912 | 0.34 | 0.32 | 49.9 |
| 4/24/2015 9:33:13 | 34.45 | 32.45 | 909 | 0.35 | 0.32 | 49.7 |
| 4/24/2015 9:33:13 | 34.78 | 32.78 | 909 | 0.35 | 0.32 | 49.7 |
| 4/24/2015 9:33:13 | 35.11 | 33.11 | 904 | 0.34 | 0.32 | 49.4 |
| 4/24/2015 9:33:14 | 35.43 | 33.43 | 925 | 0.35 | 0.33 | 50.6 |
| 4/24/2015 9:33:14 | 35.76 | 33.76 | 908 | 0.37 | 0.32 | 49.6 |
| 4/24/2015 9:33:15 | 36.09 | 34.09 | 908 | 0.37 | 0.32 | 49.6 |
| 4/24/2015 9:33:15 | 36.42 | 34.42 | 905 | 0.34 | 0.32 | 49.5 |
| 4/24/2015 9:33:15 | 36.75 | 34.75 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:33:16 | 37.07 | 35.07 | 908 | 0.18 | 0.32 | 49.6 |
| 4/24/2015 9:33:16 | 37.40 | 35.40 | 908 | 0.18 | 0.32 | 49.6 |
| 4/24/2015 9:33:16 | 37.73 | 35.73 | 905 | 0.34 | 0.32 | 49.5 |
| 4/24/2015 9:33:17 | 38.06 | 36.06 | 910 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 9:33:17 | 38.39 | 36.39 | 908 | 0.34 | 0.32 | 49.7 |
| 4/24/2015 9:33:18 | 38.71 | 36.71 | 908 | 0.34 | 0.32 | 49.7 |
| 4/24/2015 9:33:18 | 39.04 | 37.04 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 9:33:18 | 39.37 | 37.37 | 914 | 0.35 | 0.32 | 50.0 |
| 4/24/2015 9:33:19 | 39.70 | 37.70 | 913 | 0.34 | 0.32 | 50.0 |
| 4/24/2015 9:33:19 | 40.03 | 38.03 | 913 | 0.34 | 0.32 | 50.0 |
| 4/24/2015 9:33:19 | 40.35 | 38.35 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 9:33:20 | 40.68 | 38.68 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 9:33:20 | 41.01 | 39.01 | 910 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 9:33:21 | 41.34 | 39.34 | 910 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 9:33:21 | 41.67 | 39.67 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:33:22 | 41.99 | 39.99 | 909 | 0.34 | 0.32 | 49.7 |
| 4/24/2015 9:33:22 | 42.32 | 40.32 | 901 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 9:33:23 | 42.65 | 40.65 | 901 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 9:33:23 | 42.98 | 40.98 | 893 | 0.34 | 0.32 | 48.8 |
| 4/24/2015 9:33:23 | 43.31 | 41.31 | 893 | 0.34 | 0.32 | 48.8 |
| 4/24/2015 9:33:24 | 43.64 | 41.64 | 902 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 9:33:24 | 43.96 | 41.96 | 902 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 9:33:24 | 44.29 | 42.29 | 915 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 9:33:25 | 44.62 | 42.62 | 912 | 0.34 | 0.32 | 49.9 |
| 4/24/2015 9:33:25 | 44.95 | 42.95 | 917 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 9:33:26 | 45.28 | 43.28 | 917 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 9:33:26 | 45.60 | 43.60 | 922 | 0.34 | 0.32 | 50.4 |
| 4/24/2015 9:33:26 | 45.93 | 43.93 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 9:33:27 | 46.26 | 44.26 | 911 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 9:33:27 | 46.59 | 44.59 | 911 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 9:33:27 | 46.92 | 44.92 | 900 | 0.33 | 0.34 | 49.2 |
| 4/24/2015 9:33:39 | 47.24 | 45.24 | 6 | 4.48 | 0.39 | 0.3 |
| 4/24/2015 9:33:43 | 47.57 | 45.57 | 75 | 4.45 | 0.39 | 4.1 |
| 4/24/2015 9:33:50 | 47.90 | 45.90 | 49 | 3.81 | 0.40 | 2.7 |
| 4/24/2015 9:33:57 | 48.23 | 46.23 | 57 | 3.95 | 0.38 | 3.1 |
| 4/24/2015 9:34:04 | 48.56 | 46.56 | 46 | 3.94 | 0.39 | 2.5 |
| 4/24/2015 9:34:05 | 48.63 | 46.63 | 49 | 3.70 | 0.40 | 2.7 |

## H119 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:30:58

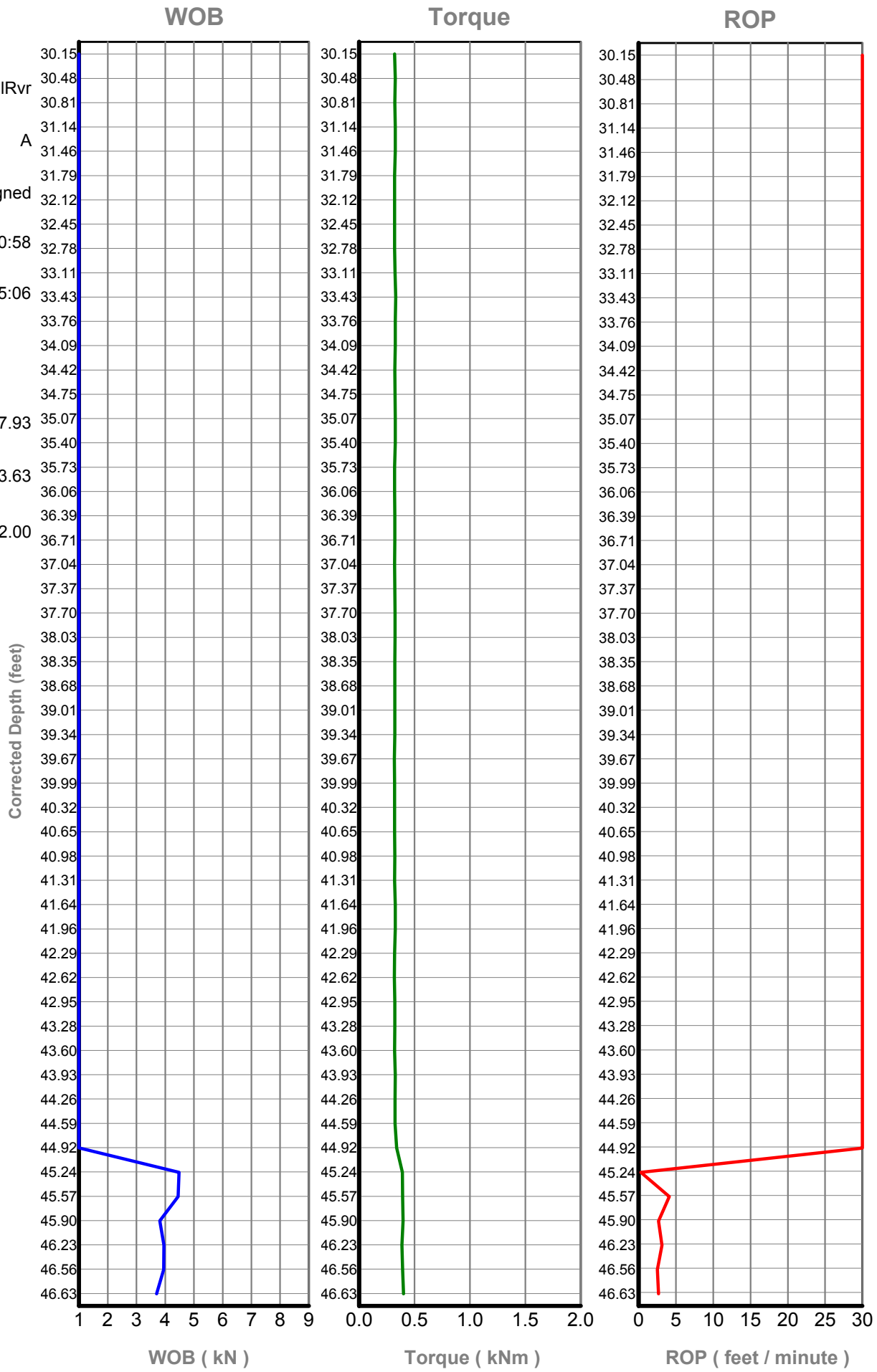
**End Date:**
4/24/2015 9:35:06

**Operator Note:**
'2 2.1 b Auto Complete'

**Northing:**
367,077.93

**Easting:**
251,073.63

**Tide (feet):**
2.00



## Hole: H12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:51:36 | 34.78 | 30.18 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 22:51:36 | 35.11 | 30.51 | 606 | 1.77 | 0.15 | 33.1 |
| 4/26/2015 22:51:37 | 35.43 | 30.83 | 606 | 1.78 | 0.15 | 33.1 |
| 4/26/2015 22:51:37 | 35.76 | 31.16 | 601 | 1.79 | 0.15 | 32.9 |
| 4/26/2015 22:51:38 | 36.09 | 31.49 | 614 | 1.77 | 0.15 | 33.6 |
| 4/26/2015 22:51:39 | 36.42 | 31.82 | 607 | 1.77 | 0.15 | 33.2 |
| 4/26/2015 22:51:39 | 36.75 | 32.15 | 613 | 1.77 | 0.15 | 33.5 |
| 4/26/2015 22:51:40 | 37.07 | 32.47 | 601 | 1.79 | 0.15 | 32.9 |
| 4/26/2015 22:51:40 | 37.40 | 32.80 | 600 | 1.79 | 0.15 | 32.8 |
| 4/26/2015 22:51:41 | 37.73 | 33.13 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 22:51:41 | 38.06 | 33.46 | 604 | 1.78 | 0.15 | 33.0 |
| 4/26/2015 22:51:42 | 38.39 | 33.79 | 604 | 1.78 | 0.15 | 33.0 |
| 4/26/2015 22:51:42 | 38.71 | 34.11 | 607 | 1.76 | 0.15 | 33.2 |
| 4/26/2015 22:51:43 | 39.04 | 34.44 | 607 | 1.75 | 0.15 | 33.2 |
| 4/26/2015 22:51:44 | 39.37 | 34.77 | 604 | 1.77 | 0.15 | 33.0 |
| 4/26/2015 22:51:44 | 39.70 | 35.10 | 601 | 1.78 | 0.15 | 32.8 |
| 4/26/2015 22:51:45 | 40.03 | 35.43 | 604 | 1.81 | 0.15 | 33.0 |
| 4/26/2015 22:51:45 | 40.35 | 35.75 | 604 | 1.74 | 0.15 | 33.0 |
| 4/26/2015 22:51:46 | 40.68 | 36.08 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 22:51:47 | 41.01 | 36.41 | 604 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 22:51:48 | 41.34 | 36.74 | 601 | 1.79 | 0.15 | 32.8 |
| 4/26/2015 22:51:48 | 41.67 | 37.07 | 601 | 1.74 | 0.15 | 32.9 |
| 4/26/2015 22:51:49 | 41.99 | 37.39 | 601 | 1.81 | 0.15 | 32.8 |
| 4/26/2015 22:51:49 | 42.32 | 37.72 | 604 | 1.76 | 0.15 | 33.0 |
| 4/26/2015 22:51:50 | 42.65 | 38.05 | 604 | 1.73 | 0.15 | 33.0 |
| 4/26/2015 22:51:50 | 42.98 | 38.38 | 605 | 1.74 | 0.15 | 33.1 |
| 4/26/2015 22:51:51 | 43.31 | 38.71 | 595 | 1.77 | 0.15 | 32.5 |
| 4/26/2015 22:51:52 | 43.64 | 39.04 | 602 | 1.79 | 0.15 | 32.9 |
| 4/26/2015 22:51:52 | 43.96 | 39.36 | 599 | 1.79 | 0.16 | 32.8 |
| 4/26/2015 22:51:53 | 44.29 | 39.69 | 592 | 1.77 | 0.15 | 32.4 |
| 4/26/2015 22:51:53 | 44.62 | 40.02 | 609 | 1.78 | 0.15 | 33.3 |
| 4/26/2015 22:51:54 | 44.95 | 40.35 | 589 | 1.79 | 0.15 | 32.2 |
| 4/26/2015 22:51:54 | 45.28 | 40.68 | 589 | 1.79 | 0.15 | 32.2 |
| 4/26/2015 22:51:55 | 45.60 | 41.00 | 592 | 1.76 | 0.15 | 32.4 |
| 4/26/2015 22:51:56 | 45.93 | 41.33 | 600 | 1.77 | 0.15 | 32.8 |
| 4/26/2015 22:51:56 | 46.26 | 41.66 | 600 | 1.74 | 0.15 | 32.8 |
| 4/26/2015 22:51:57 | 46.59 | 41.99 | 597 | 1.77 | 0.15 | 32.6 |
| 4/26/2015 22:51:58 | 46.92 | 42.32 | 606 | 1.81 | 0.15 | 33.1 |
| 4/26/2015 22:52:07 | 47.24 | 42.64 | 0 | 1.74 | 1.17 | 0.0 |
| 4/26/2015 22:52:09 | 47.57 | 42.97 | 150 | 1.74 | 1.16 | 8.2 |
| 4/26/2015 22:52:10 | 47.90 | 43.30 | 208 | 1.74 | 1.19 | 11.4 |
| 4/26/2015 22:52:15 | 48.23 | 43.63 | 63 | 1.74 | 1.19 | 3.4 |
| 4/26/2015 22:52:16 | 48.56 | 43.96 | 175 | 1.79 | 1.19 | 9.5 |
| 4/26/2015 22:52:23 | 48.88 | 44.28 | 0 | 1.73 | 1.16 | 0.0 |
| 4/26/2015 22:52:24 | 49.21 | 44.61 | 67 | 1.77 | 1.24 | 3.7 |
| 4/26/2015 22:52:25 | 49.54 | 44.94 | 116 | 1.81 | 1.10 | 6.3 |
| 4/26/2015 22:52:26 | 49.87 | 45.27 | 269 | 1.74 | 1.12 | 14.7 |
| 4/26/2015 22:52:32 | 50.20 | 45.60 | 53 | 1.72 | 1.09 | 2.9 |
| 4/26/2015 22:52:33 | 50.53 | 45.93 | 167 | 1.76 | 1.19 | 9.1 |
| 4/26/2015 22:53:09 | 50.85 | 46.25 | 20 | 1.76 | 1.14 | 1.1 |
| 4/26/2015 22:53:11 | 51.18 | 46.58 | 110 | 1.75 | 1.15 | 6.0 |
| 4/26/2015 22:53:12 | 51.51 | 46.91 | 248 | 1.52 | 1.17 | 13.6 |
| 4/26/2015 22:53:31 | 51.84 | 47.24 | 56 | 1.73 | 1.22 | 3.1 |
| 4/26/2015 22:53:33 | 52.17 | 47.57 | 156 | 1.74 | 1.05 | 8.5 |
| 4/26/2015 22:53:54 | 52.49 | 47.89 | 29 | 1.72 | 1.06 | 1.6 |
| 4/26/2015 22:53:55 | 52.82 | 48.22 | 130 | 1.74 | 0.99 | 7.1 |
| 4/26/2015 22:53:56 | 53.15 | 48.55 | 266 | 1.73 | 1.05 | 14.5 |
| 4/26/2015 22:54:20 | 53.48 | 48.88 | 51 | 1.76 | 1.49 | 2.8 |
| 4/26/2015 22:54:38 | 53.81 | 49.21 | 38 | 1.77 | 1.23 | 2.1 |
| 4/26/2015 22:54:47 | 54.13 | 49.53 | 43 | 1.78 | 1.29 | 2.3 |
| 4/26/2015 22:54:56 | 54.46 | 49.86 | 41 | 1.78 | 1.28 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:55:04 | 54.79 | 50.19 | 44 | 1.79 | 1.27 | 2.4 |
| 4/26/2015 | 22:55:13 | 55.12 | 50.52 | 41 | 1.78 | 1.27 | 2.2 |
| 4/26/2015 | 22:55:15 | 55.19 | 50.59 | 40 | 1.78 | 1.30 | 2.2 |

## H12 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:49:46

**End Date:**
4/26/2015 22:57:36

**Operator Note:**
'4.6 4.7 c Auto Complete'

**Northing:**
366,112.88

**Easting:**
249,630.70

**Tide (feet):**
4.60



## Hole: H120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:34:41 | 32.15 | 30.25 | 674 | 1.98 | 0.32 | 36.9 |
| 4/24/2015 9:34:41 | 32.48 | 30.58 | 683 | 1.97 | 0.32 | 37.4 |
| 4/24/2015 9:34:42 | 32.81 | 30.91 | 695 | 1.97 | 0.32 | 38.0 |
| 4/24/2015 9:34:42 | 33.14 | 31.24 | 663 | 1.98 | 0.32 | 36.3 |
| 4/24/2015 9:34:43 | 33.46 | 31.56 | 663 | 1.98 | 0.32 | 36.3 |
| 4/24/2015 9:34:43 | 33.79 | 31.89 | 676 | 1.97 | 0.33 | 37.0 |
| 4/24/2015 9:34:44 | 34.12 | 32.22 | 691 | 1.96 | 0.33 | 37.8 |
| 4/24/2015 9:34:44 | 34.45 | 32.55 | 673 | 1.96 | 0.33 | 36.8 |
| 4/24/2015 9:34:45 | 34.78 | 32.88 | 662 | 1.96 | 0.33 | 36.2 |
| 4/24/2015 9:34:45 | 35.11 | 33.21 | 662 | 1.98 | 0.32 | 36.2 |
| 4/24/2015 9:34:46 | 35.43 | 33.53 | 689 | 1.96 | 0.32 | 37.7 |
| 4/24/2015 9:34:46 | 35.76 | 33.86 | 673 | 1.96 | 0.32 | 36.8 |
| 4/24/2015 9:34:47 | 36.09 | 34.19 | 673 | 1.97 | 0.32 | 36.8 |
| 4/24/2015 9:34:47 | 36.42 | 34.52 | 668 | 1.98 | 0.32 | 36.5 |
| 4/24/2015 9:34:48 | 36.75 | 34.85 | 668 | 1.97 | 0.32 | 36.5 |
| 4/24/2015 9:34:49 | 37.07 | 35.17 | 687 | 1.98 | 0.32 | 37.6 |
| 4/24/2015 9:34:49 | 37.40 | 35.50 | 673 | 1.98 | 0.32 | 36.8 |
| 4/24/2015 9:34:50 | 37.73 | 35.83 | 673 | 1.98 | 0.32 | 36.8 |
| 4/24/2015 9:34:50 | 38.06 | 36.16 | 676 | 1.96 | 0.32 | 36.9 |
| 4/24/2015 9:34:51 | 38.39 | 36.49 | 690 | 1.97 | 0.32 | 37.7 |
| 4/24/2015 9:34:51 | 38.71 | 36.81 | 688 | 1.97 | 0.31 | 37.6 |
| 4/24/2015 9:34:52 | 39.04 | 37.14 | 676 | 1.95 | 0.32 | 37.0 |
| 4/24/2015 9:34:52 | 39.37 | 37.47 | 697 | 1.97 | 0.32 | 38.1 |
| 4/24/2015 9:34:53 | 39.70 | 37.80 | 685 | 1.95 | 0.32 | 37.5 |
| 4/24/2015 9:34:53 | 40.03 | 38.13 | 682 | 1.97 | 0.31 | 37.3 |
| 4/24/2015 9:34:54 | 40.35 | 38.45 | 675 | 1.95 | 0.31 | 36.9 |
| 4/24/2015 9:34:54 | 40.68 | 38.78 | 686 | 1.98 | 0.31 | 37.5 |
| 4/24/2015 9:34:55 | 41.01 | 39.11 | 683 | 1.96 | 0.31 | 37.4 |
| 4/24/2015 9:34:55 | 41.34 | 39.44 | 683 | 1.97 | 0.31 | 37.4 |
| 4/24/2015 9:34:56 | 41.67 | 39.77 | 679 | 1.93 | 0.31 | 37.1 |
| 4/24/2015 9:34:56 | 41.99 | 40.09 | 691 | 1.99 | 0.32 | 37.8 |
| 4/24/2015 9:34:57 | 42.32 | 40.42 | 679 | 1.96 | 0.32 | 37.1 |
| 4/24/2015 9:34:57 | 42.65 | 40.75 | 675 | 1.97 | 0.31 | 36.9 |
| 4/24/2015 9:34:58 | 42.98 | 41.08 | 679 | 1.98 | 0.31 | 37.1 |
| 4/24/2015 9:34:58 | 43.31 | 41.41 | 668 | 1.98 | 0.31 | 36.5 |
| 4/24/2015 9:34:59 | 43.64 | 41.74 | 668 | 1.95 | 0.31 | 36.5 |
| 4/24/2015 9:35:00 | 43.96 | 42.06 | 673 | 1.98 | 0.31 | 36.8 |
| 4/24/2015 9:35:00 | 44.29 | 42.39 | 670 | 1.96 | 0.31 | 36.6 |
| 4/24/2015 9:35:01 | 44.62 | 42.72 | 674 | 1.98 | 0.31 | 36.8 |
| 4/24/2015 9:35:01 | 44.95 | 43.05 | 670 | 1.97 | 0.32 | 36.6 |
| 4/24/2015 9:35:02 | 45.28 | 43.38 | 685 | 1.98 | 0.31 | 37.4 |
| 4/24/2015 9:35:02 | 45.60 | 43.70 | 676 | 1.96 | 0.31 | 37.0 |
| 4/24/2015 9:35:03 | 45.93 | 44.03 | 679 | 1.98 | 0.31 | 37.1 |
| 4/24/2015 9:35:03 | 46.26 | 44.36 | 679 | 1.97 | 0.31 | 37.1 |
| 4/24/2015 9:35:04 | 46.59 | 44.69 | 679 | 1.96 | 0.31 | 37.1 |
| 4/24/2015 9:35:04 | 46.92 | 45.02 | 675 | 1.98 | 0.31 | 36.9 |
| 4/24/2015 9:35:05 | 47.24 | 45.34 | 679 | 1.97 | 0.31 | 37.1 |
| 4/24/2015 9:35:05 | 47.57 | 45.67 | 679 | 1.98 | 0.31 | 37.1 |
| 4/24/2015 9:35:06 | 47.90 | 46.00 | 676 | 1.95 | 0.31 | 37.0 |
| 4/24/2015 9:35:06 | 48.23 | 46.33 | 676 | 1.98 | 0.31 | 37.0 |
| 4/24/2015 9:35:07 | 48.56 | 46.66 | 681 | 1.95 | 0.31 | 37.2 |
| 4/24/2015 9:35:07 | 48.88 | 46.98 | 676 | 1.96 | 0.31 | 37.0 |
| 4/24/2015 9:35:08 | 49.21 | 47.31 | 674 | 1.97 | 0.32 | 36.8 |
| 4/24/2015 9:35:25 | 49.54 | 47.64 | 0 | 2.17 | 1.13 | 0.0 |
| 4/24/2015 9:35:33 | 49.87 | 47.97 | 44 | 1.99 | 1.08 | 2.4 |
| 4/24/2015 9:35:38 | 50.20 | 48.30 | 43 | 1.95 | 1.08 | 2.3 |
| 4/24/2015 9:35:40 | 50.53 | 48.63 | 164 | 2.00 | 1.11 | 9.0 |
| 4/24/2015 9:35:42 | 50.85 | 48.95 | 195 | 1.99 | 1.12 | 10.6 |
| 4/24/2015 9:35:43 | 51.18 | 49.28 | 241 | 1.98 | 1.27 | 13.2 |
| 4/24/2015 9:35:45 | 51.51 | 49.61 | 253 | 1.93 | 1.11 | 13.8 |
| 4/24/2015 9:35:46 | 51.84 | 49.94 | 263 | 1.97 | 1.09 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:35:47 | 52.17 | 50.27 | 275 | 1.95 | 1.10 | 15.0 |
| 4/24/2015 | 9:35:48 | 52.49 | 50.59 | 292 | 1.97 | 1.07 | 16.0 |
| 4/24/2015 | 9:36:06 | 52.82 | 50.92 | 0 | 2.00 | 1.09 | 0.0 |
| 4/24/2015 | 9:36:07 | 53.15 | 51.25 | 61 | 1.95 | 1.07 | 3.3 |
| 4/24/2015 | 9:36:08 | 53.48 | 51.58 | 131 | 1.96 | 1.07 | 7.2 |
| 4/24/2015 | 9:36:09 | 53.81 | 51.91 | 251 | 1.98 | 1.08 | 13.7 |
| 4/24/2015 | 9:36:11 | 54.13 | 52.23 | 278 | 1.98 | 1.12 | 15.2 |
| 4/24/2015 | 9:36:14 | 54.46 | 52.56 | 164 | 1.99 | 1.10 | 8.9 |
| 4/24/2015 | 9:36:18 | 54.79 | 52.89 | 92 | 1.94 | 1.12 | 5.1 |
| 4/24/2015 | 9:36:22 | 55.12 | 53.22 | 95 | 1.98 | 1.16 | 5.2 |
| 4/24/2015 | 9:36:27 | 55.45 | 53.55 | 63 | 2.00 | 1.21 | 3.4 |
| 4/24/2015 | 9:36:33 | 55.77 | 53.87 | 61 | 1.99 | 1.25 | 3.3 |
| 4/24/2015 | 9:36:39 | 56.10 | 54.20 | 58 | 2.00 | 1.23 | 3.2 |
| 4/24/2015 | 9:36:46 | 56.43 | 54.53 | 49 | 1.98 | 1.18 | 2.7 |
| 4/24/2015 | 9:36:53 | 56.76 | 54.86 | 45 | 1.98 | 1.10 | 2.4 |
| 4/24/2015 | 9:36:59 | 57.09 | 55.19 | 43 | 1.99 | 1.17 | 2.4 |
| 4/24/2015 | 9:37:01 | 57.21 | 55.31 | 49 | 1.99 | 1.26 | 2.7 |

## H120 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:33:11

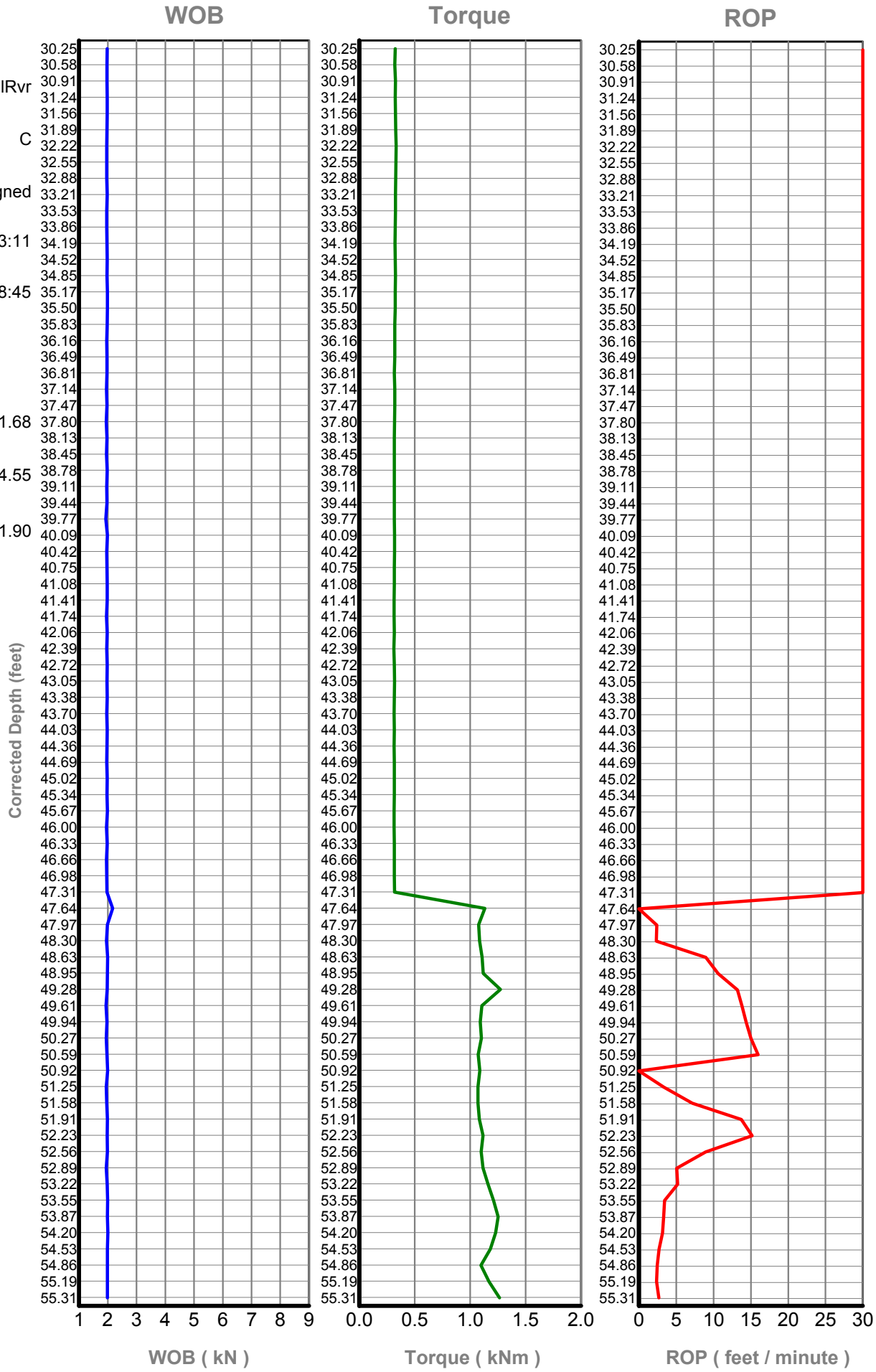
**End Date:**
4/24/2015 9:38:45

**Operator Note:**
'1.9 2.1 C Auto Complete'

**Northing:**
367,121.68

**Easting:**
251,134.55

**Tide (feet):**
1.90



## Hole: H121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:57:48 | 29.86 | 30.06 | 887 | 2.05 | 0.33 | 48.5 |
| 4/23/2015 23:57:48 | 30.18 | 30.38 | 885 | 2.06 | 0.33 | 48.4 |
| 4/23/2015 23:57:49 | 30.51 | 30.71 | 885 | 2.04 | 0.33 | 48.4 |
| 4/23/2015 23:57:49 | 30.84 | 31.04 | 879 | 2.05 | 0.33 | 48.1 |
| 4/23/2015 23:57:50 | 31.17 | 31.37 | 879 | 2.05 | 0.33 | 48.1 |
| 4/23/2015 23:57:50 | 31.50 | 31.70 | 873 | 2.06 | 0.33 | 47.7 |
| 4/23/2015 23:57:50 | 31.82 | 32.02 | 868 | 1.97 | 0.33 | 47.5 |
| 4/23/2015 23:57:51 | 32.15 | 32.35 | 885 | 0.37 | 0.32 | 48.4 |
| 4/23/2015 23:57:51 | 32.48 | 32.68 | 885 | 0.37 | 0.32 | 48.4 |
| 4/23/2015 23:57:51 | 32.81 | 33.01 | 888 | 0.37 | 0.33 | 48.5 |
| 4/23/2015 23:57:52 | 33.14 | 33.34 | 893 | 0.37 | 0.32 | 48.9 |
| 4/23/2015 23:57:52 | 33.46 | 33.66 | 899 | 0.37 | 0.32 | 49.2 |
| 4/23/2015 23:57:53 | 33.79 | 33.99 | 899 | 0.37 | 0.32 | 49.2 |
| 4/23/2015 23:57:53 | 34.12 | 34.32 | 908 | 0.37 | 0.32 | 49.6 |
| 4/23/2015 23:57:53 | 34.45 | 34.65 | 902 | 0.37 | 0.32 | 49.3 |
| 4/23/2015 23:57:54 | 34.78 | 34.98 | 902 | 0.37 | 0.32 | 49.3 |
| 4/23/2015 23:57:54 | 35.11 | 35.31 | 902 | 0.37 | 0.32 | 49.3 |
| 4/23/2015 23:57:54 | 35.43 | 35.63 | 900 | 0.37 | 0.32 | 49.2 |
| 4/23/2015 23:57:55 | 35.76 | 35.96 | 905 | 0.37 | 0.33 | 49.5 |
| 4/23/2015 23:57:55 | 36.09 | 36.29 | 896 | 0.37 | 0.33 | 49.0 |
| 4/23/2015 23:57:56 | 36.42 | 36.62 | 893 | 0.37 | 0.33 | 48.8 |
| 4/23/2015 23:57:56 | 36.75 | 36.95 | 893 | 0.37 | 0.33 | 48.8 |
| 4/23/2015 23:57:56 | 37.07 | 37.27 | 890 | 0.37 | 0.33 | 48.7 |
| 4/23/2015 23:57:57 | 37.40 | 37.60 | 893 | 0.37 | 0.32 | 48.8 |
| 4/23/2015 23:57:58 | 37.73 | 37.93 | 887 | 0.37 | 0.33 | 48.5 |
| 4/23/2015 23:57:58 | 38.06 | 38.26 | 887 | 0.37 | 0.33 | 48.5 |
| 4/23/2015 23:57:58 | 38.39 | 38.59 | 887 | 0.36 | 0.32 | 48.5 |
| 4/23/2015 23:57:59 | 38.71 | 38.91 | 893 | 0.37 | 0.33 | 48.9 |
| 4/23/2015 23:57:59 | 39.04 | 39.24 | 899 | 0.37 | 0.33 | 49.2 |
| 4/23/2015 23:58:00 | 39.37 | 39.57 | 899 | 0.37 | 0.33 | 49.2 |
| 4/23/2015 23:58:00 | 39.70 | 39.90 | 899 | 0.37 | 0.32 | 49.2 |
| 4/23/2015 23:58:00 | 40.03 | 40.23 | 902 | 0.37 | 0.33 | 49.3 |
| 4/23/2015 23:58:01 | 40.35 | 40.55 | 905 | 0.37 | 0.33 | 49.5 |
| 4/23/2015 23:58:01 | 40.68 | 40.88 | 902 | 0.37 | 0.32 | 49.3 |
| 4/23/2015 23:58:02 | 41.01 | 41.21 | 902 | 0.37 | 0.32 | 49.3 |
| 4/23/2015 23:58:02 | 41.34 | 41.54 | 896 | 0.36 | 0.33 | 49.0 |
| 4/23/2015 23:58:02 | 41.67 | 41.87 | 893 | 0.37 | 0.33 | 48.8 |
| 4/23/2015 23:58:03 | 41.99 | 42.19 | 890 | 0.37 | 0.32 | 48.7 |
| 4/23/2015 23:58:03 | 42.32 | 42.52 | 890 | 0.37 | 0.32 | 48.7 |
| 4/23/2015 23:58:03 | 42.65 | 42.85 | 890 | 0.37 | 0.32 | 48.7 |
| 4/23/2015 23:58:04 | 42.98 | 43.18 | 882 | 0.37 | 0.33 | 48.2 |
| 4/23/2015 23:58:04 | 43.31 | 43.51 | 868 | 0.37 | 0.32 | 47.5 |
| 4/23/2015 23:58:05 | 43.64 | 43.84 | 868 | 0.37 | 0.32 | 47.5 |
| 4/23/2015 23:58:05 | 43.96 | 44.16 | 868 | 0.39 | 0.32 | 47.5 |
| 4/23/2015 23:58:05 | 44.29 | 44.49 | 881 | 0.37 | 0.32 | 48.2 |
| 4/23/2015 23:58:06 | 44.62 | 44.82 | 881 | 0.37 | 0.33 | 48.2 |
| 4/23/2015 23:58:06 | 44.95 | 45.15 | 883 | 0.37 | 0.32 | 48.3 |
| 4/23/2015 23:58:07 | 45.28 | 45.48 | 883 | 0.37 | 0.32 | 48.3 |
| 4/23/2015 23:58:07 | 45.60 | 45.80 | 886 | 0.37 | 0.33 | 48.5 |
| 4/23/2015 23:58:07 | 45.93 | 46.13 | 901 | 0.37 | 0.33 | 49.3 |
| 4/23/2015 23:58:08 | 46.26 | 46.46 | 887 | 0.37 | 0.32 | 48.5 |
| 4/23/2015 23:58:09 | 46.59 | 46.79 | 887 | 0.37 | 0.32 | 48.5 |
| 4/23/2015 23:58:09 | 46.92 | 47.12 | 887 | 0.37 | 0.33 | 48.5 |
| 4/23/2015 23:58:09 | 47.24 | 47.44 | 885 | 0.37 | 0.33 | 48.4 |
| 4/23/2015 23:58:10 | 47.57 | 47.77 | 890 | 0.37 | 0.32 | 48.7 |
| 4/23/2015 23:58:10 | 47.90 | 48.10 | 890 | 0.37 | 0.32 | 48.7 |
| 4/23/2015 23:58:10 | 48.23 | 48.43 | 890 | 0.36 | 0.33 | 48.7 |
| 4/23/2015 23:58:11 | 48.56 | 48.76 | 890 | 0.36 | 0.35 | 48.7 |
| 4/23/2015 23:58:30 | 48.88 | 49.08 | 0 | 5.42 | 0.38 | 0.0 |
| 4/23/2015 23:58:38 | 49.21 | 49.41 | 23 | 3.63 | 0.37 | 1.3 |
| 4/23/2015 23:58:41 | 49.54 | 49.74 | 166 | 3.38 | 0.37 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 23:58:43 | 49.87 | 50.07 | 95 | 3.48 | 0.38 | 5.2 |
| 4/23/2015 | 23:58:44 | 50.20 | 50.40 | 194 | 4.61 | 0.37 | 10.6 |
| 4/23/2015 | 23:58:45 | 50.53 | 50.73 | 237 | 5.01 | 0.37 | 13.0 |
| 4/23/2015 | 23:58:46 | 50.85 | 51.05 | 371 | 3.93 | 0.36 | 20.3 |
| 4/23/2015 | 23:59:01 | 51.18 | 51.38 | 29 | 3.49 | 0.37 | 1.6 |
| 4/23/2015 | 23:59:02 | 51.51 | 51.71 | 120 | 3.68 | 0.37 | 6.5 |
| 4/23/2015 | 23:59:03 | 51.84 | 52.04 | 302 | 3.15 | 0.36 | 16.5 |
| 4/23/2015 | 23:59:03 | 52.17 | 52.37 | 400 | 2.84 | 0.36 | 21.8 |
| 4/23/2015 | 23:59:04 | 52.49 | 52.69 | 468 | 3.07 | 0.37 | 25.6 |
| 4/23/2015 | 23:59:05 | 52.82 | 53.02 | 451 | 3.10 | 0.36 | 24.7 |
| 4/23/2015 | 23:59:06 | 53.15 | 53.35 | 445 | 2.77 | 0.36 | 24.3 |
| 4/23/2015 | 23:59:06 | 53.48 | 53.68 | 448 | 2.90 | 0.36 | 24.5 |
| 4/23/2015 | 23:59:07 | 53.81 | 54.01 | 447 | 3.72 | 0.38 | 24.5 |
| 4/23/2015 | 23:59:10 | 54.13 | 54.33 | 240 | 4.19 | 0.39 | 13.1 |
| 4/23/2015 | 23:59:12 | 54.46 | 54.66 | 146 | 4.00 | 0.40 | 8.0 |
| 4/23/2015 | 23:59:17 | 54.79 | 54.99 | 87 | 3.07 | 0.40 | 4.7 |
| 4/23/2015 | 23:59:20 | 54.93 | 55.13 | 49 | 2.74 | 0.34 | 2.7 |

## H121 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:55:31

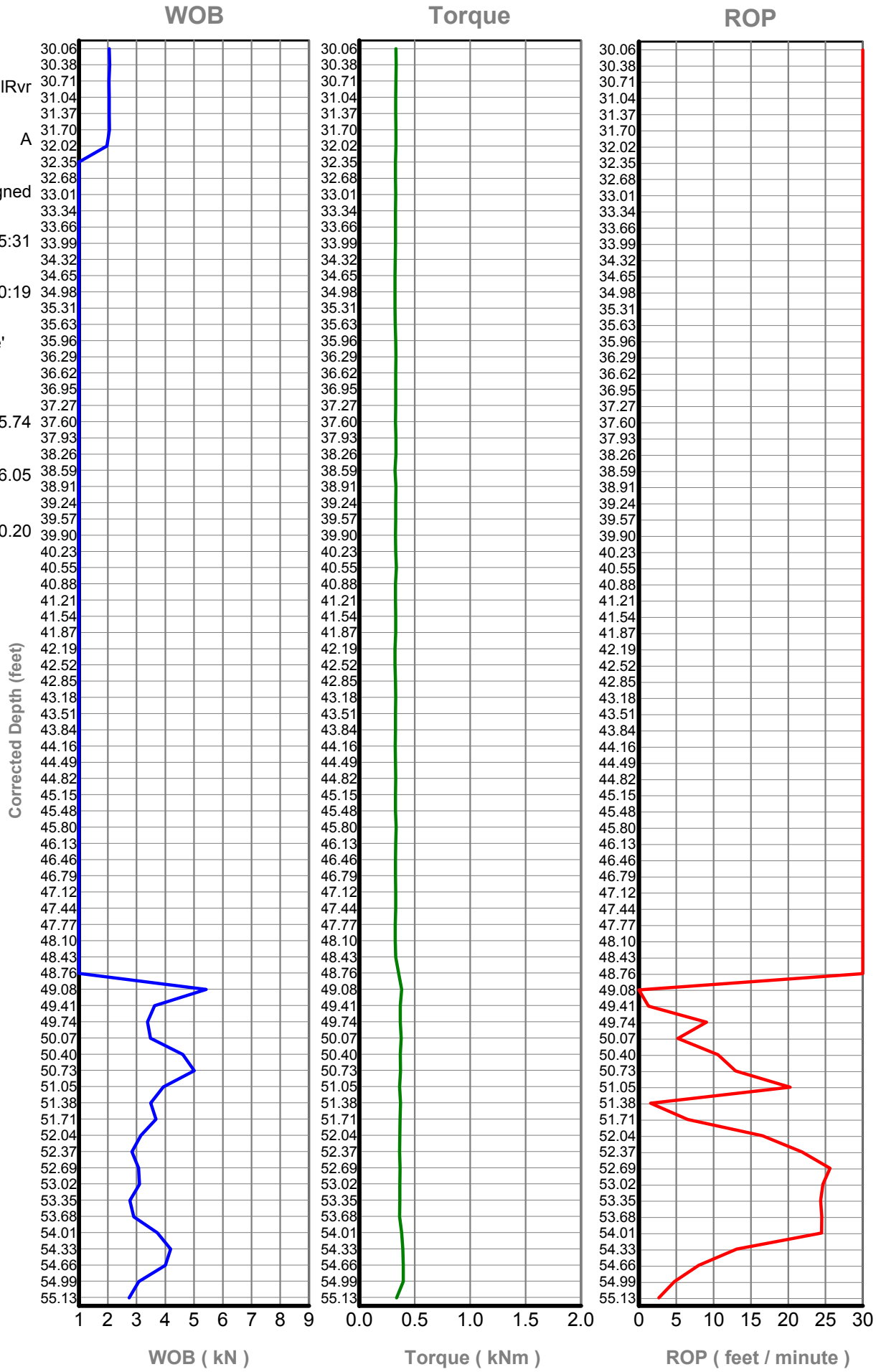
**End Date:**
4/24/2015 0:00:19

**Operator Note:**
'-0.2 .1 b Auto Complete'

**Northing:**
367,175.74

**Easting:**
251,206.05

**Tide (feet):**
-0.20



## Hole: H122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 0:03:38 | 29.86 | 30.16 | 908 | 0.35 | 0.33 | 49.6 |
| 4/24/2015 0:03:38 | 30.18 | 30.48 | 908 | 0.35 | 0.33 | 49.6 |
| 4/24/2015 0:03:38 | 30.51 | 30.81 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 0:03:39 | 30.84 | 31.14 | 894 | 0.35 | 0.32 | 48.9 |
| 4/24/2015 0:03:39 | 31.17 | 31.47 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 0:03:40 | 31.50 | 31.80 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 0:03:40 | 31.82 | 32.12 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 0:03:40 | 32.15 | 32.45 | 892 | 0.36 | 0.33 | 48.8 |
| 4/24/2015 0:03:41 | 32.48 | 32.78 | 892 | 0.36 | 0.32 | 48.8 |
| 4/24/2015 0:03:42 | 32.81 | 33.11 | 892 | 0.36 | 0.32 | 48.8 |
| 4/24/2015 0:03:42 | 33.14 | 33.44 | 907 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:42 | 33.46 | 33.76 | 917 | 0.36 | 0.33 | 50.2 |
| 4/24/2015 0:03:43 | 33.79 | 34.09 | 909 | 0.36 | 0.33 | 49.7 |
| 4/24/2015 0:03:43 | 34.12 | 34.42 | 909 | 0.36 | 0.33 | 49.7 |
| 4/24/2015 0:03:43 | 34.45 | 34.75 | 906 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:44 | 34.78 | 35.08 | 925 | 0.36 | 0.33 | 50.6 |
| 4/24/2015 0:03:44 | 35.11 | 35.41 | 916 | 0.36 | 0.33 | 50.1 |
| 4/24/2015 0:03:45 | 35.43 | 35.73 | 916 | 0.36 | 0.33 | 50.1 |
| 4/24/2015 0:03:45 | 35.76 | 36.06 | 905 | 0.36 | 0.33 | 49.5 |
| 4/24/2015 0:03:45 | 36.09 | 36.39 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 0:03:46 | 36.42 | 36.72 | 905 | 0.36 | 0.33 | 49.5 |
| 4/24/2015 0:03:46 | 36.75 | 37.05 | 905 | 0.36 | 0.33 | 49.5 |
| 4/24/2015 0:03:46 | 37.07 | 37.37 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 0:03:47 | 37.40 | 37.70 | 894 | 0.35 | 0.33 | 48.9 |
| 4/24/2015 0:03:47 | 37.73 | 38.03 | 900 | 0.36 | 0.32 | 49.2 |
| 4/24/2015 0:03:48 | 38.06 | 38.36 | 900 | 0.36 | 0.32 | 49.2 |
| 4/24/2015 0:03:48 | 38.39 | 38.69 | 911 | 0.37 | 0.32 | 49.8 |
| 4/24/2015 0:03:48 | 38.71 | 39.01 | 911 | 0.36 | 0.32 | 49.8 |
| 4/24/2015 0:03:49 | 39.04 | 39.34 | 914 | 0.36 | 0.33 | 50.0 |
| 4/24/2015 0:03:49 | 39.37 | 39.67 | 914 | 0.36 | 0.33 | 50.0 |
| 4/24/2015 0:03:49 | 39.70 | 40.00 | 916 | 0.36 | 0.32 | 50.1 |
| 4/24/2015 0:03:50 | 40.03 | 40.33 | 925 | 0.36 | 0.33 | 50.6 |
| 4/24/2015 0:03:50 | 40.35 | 40.65 | 908 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:51 | 40.68 | 40.98 | 908 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:51 | 41.01 | 41.31 | 913 | 0.35 | 0.32 | 49.9 |
| 4/24/2015 0:03:52 | 41.34 | 41.64 | 900 | 0.36 | 0.33 | 49.2 |
| 4/24/2015 0:03:52 | 41.67 | 41.97 | 905 | 0.36 | 0.32 | 49.5 |
| 4/24/2015 0:03:53 | 41.99 | 42.29 | 905 | 0.36 | 0.32 | 49.5 |
| 4/24/2015 0:03:53 | 42.32 | 42.62 | 902 | 0.36 | 0.32 | 49.3 |
| 4/24/2015 0:03:53 | 42.65 | 42.95 | 905 | 0.36 | 0.32 | 49.5 |
| 4/24/2015 0:03:54 | 42.98 | 43.28 | 895 | 0.36 | 0.33 | 48.9 |
| 4/24/2015 0:03:54 | 43.31 | 43.61 | 908 | 0.36 | 0.33 | 49.7 |
| 4/24/2015 0:03:55 | 43.64 | 43.94 | 908 | 0.36 | 0.33 | 49.7 |
| 4/24/2015 0:03:55 | 43.96 | 44.26 | 908 | 0.36 | 0.32 | 49.7 |
| 4/24/2015 0:03:55 | 44.29 | 44.59 | 905 | 0.35 | 0.33 | 49.5 |
| 4/24/2015 0:03:56 | 44.62 | 44.92 | 908 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:56 | 44.95 | 45.25 | 908 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 0:03:56 | 45.28 | 45.58 | 913 | 0.37 | 0.33 | 49.9 |
| 4/24/2015 0:03:57 | 45.60 | 45.90 | 899 | 0.36 | 0.33 | 49.2 |
| 4/24/2015 0:03:57 | 45.93 | 46.23 | 893 | 0.35 | 0.33 | 48.8 |
| 4/24/2015 0:03:58 | 46.26 | 46.56 | 893 | 0.35 | 0.33 | 48.8 |
| 4/24/2015 0:03:58 | 46.59 | 46.89 | 891 | 0.36 | 0.33 | 48.7 |
| 4/24/2015 0:03:58 | 46.92 | 47.22 | 896 | 0.39 | 0.33 | 49.0 |
| 4/24/2015 0:03:59 | 47.24 | 47.54 | 893 | 0.36 | 0.33 | 48.8 |
| 4/24/2015 0:03:59 | 47.57 | 47.87 | 893 | 0.36 | 0.33 | 48.8 |
| 4/24/2015 0:03:59 | 47.90 | 48.20 | 902 | 0.36 | 0.32 | 49.3 |
| 4/24/2015 0:04:00 | 48.23 | 48.53 | 899 | 0.36 | 0.32 | 49.2 |
| 4/24/2015 0:04:00 | 48.56 | 48.86 | 902 | 0.36 | 0.32 | 49.3 |
| 4/24/2015 0:04:01 | 48.88 | 49.18 | 902 | 0.36 | 0.32 | 49.3 |
| 4/24/2015 0:04:01 | 49.21 | 49.51 | 879 | 0.35 | 0.34 | 48.1 |
| 4/24/2015 0:04:01 | 49.54 | 49.84 | 879 | 0.35 | 0.34 | 48.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 0:04:02 | 49.87 | 50.17 | 867 | 0.35 | 0.34 | 47.4 |
| 4/24/2015 | 0:04:03 | 50.20 | 50.50 | 841 | 0.37 | 0.34 | 46.0 |
| 4/24/2015 | 0:04:03 | 50.53 | 50.83 | 805 | 0.26 | 0.35 | 44.0 |
| 4/24/2015 | 0:04:04 | 50.85 | 51.15 | 771 | 0.35 | 0.35 | 42.2 |
| 4/24/2015 | 0:04:04 | 51.18 | 51.48 | 743 | 0.35 | 0.35 | 40.6 |
| 4/24/2015 | 0:04:05 | 51.51 | 51.81 | 710 | 0.33 | 0.36 | 38.8 |
| 4/24/2015 | 0:04:05 | 51.84 | 52.14 | 668 | 0.35 | 0.36 | 36.5 |
| 4/24/2015 | 0:04:34 | 52.17 | 52.47 | 35 | 3.09 | 0.37 | 1.9 |
| 4/24/2015 | 0:04:34 | 52.49 | 52.79 | 115 | 5.89 | 0.38 | 6.3 |
| 4/24/2015 | 0:04:37 | 52.82 | 53.12 | 117 | 3.32 | 0.36 | 6.4 |
| 4/24/2015 | 0:04:38 | 53.15 | 53.45 | 173 | 2.70 | 0.36 | 9.5 |
| 4/24/2015 | 0:04:39 | 53.48 | 53.78 | 365 | 4.17 | 0.38 | 19.9 |
| 4/24/2015 | 0:04:41 | 53.81 | 54.11 | 243 | 3.09 | 0.36 | 13.3 |
| 4/24/2015 | 0:04:41 | 54.13 | 54.43 | 249 | 3.24 | 0.36 | 13.6 |
| 4/24/2015 | 0:04:42 | 54.46 | 54.76 | 295 | 2.93 | 0.36 | 16.1 |
| 4/24/2015 | 0:04:43 | 54.79 | 55.09 | 448 | 2.81 | 0.37 | 24.5 |
| 4/24/2015 | 0:04:44 | 55.12 | 55.42 | 417 | 3.48 | 0.37 | 22.8 |
| 4/24/2015 | 0:04:46 | 55.45 | 55.75 | 306 | 2.90 | 0.41 | 16.7 |
| 4/24/2015 | 0:04:49 | 55.77 | 56.07 | 112 | 2.92 | 0.40 | 6.1 |

## H122 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 0:01:51

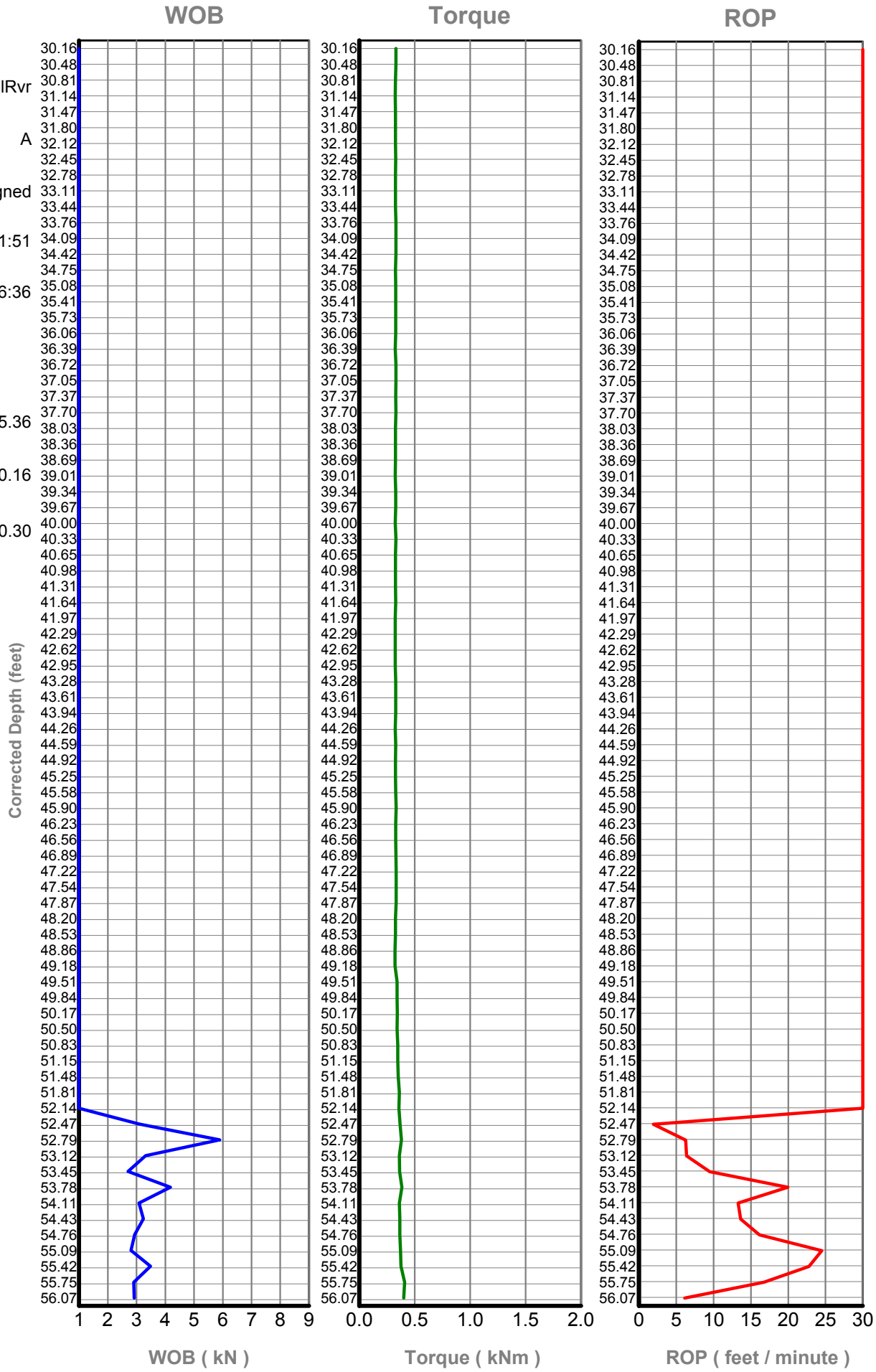
**End Date:**
4/24/2015 0:06:36

**Operator Note:**
'-0.3 -.2 b Auto Complete'

**Northing:**
367,215.36

**Easting:**
251,250.16

**Tide (feet):**
-0.30



## Hole: H123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:58:41 | 29.86 | 30.06 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 23:58:42 | 30.18 | 30.38 | 601 | 2.03 | 0.18 | 32.9 |
| 4/23/2015 23:58:42 | 30.51 | 30.71 | 580 | 2.02 | 0.18 | 31.7 |
| 4/23/2015 23:58:43 | 30.84 | 31.04 | 580 | 2.04 | 0.18 | 31.7 |
| 4/23/2015 23:58:43 | 31.17 | 31.37 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 23:58:44 | 31.50 | 31.70 | 594 | 2.03 | 0.18 | 32.5 |
| 4/23/2015 23:58:45 | 31.82 | 32.02 | 587 | 2.03 | 0.18 | 32.1 |
| 4/23/2015 23:58:45 | 32.15 | 32.35 | 606 | 2.02 | 0.18 | 33.2 |
| 4/23/2015 23:58:46 | 32.48 | 32.68 | 596 | 2.04 | 0.18 | 32.6 |
| 4/23/2015 23:58:46 | 32.81 | 33.01 | 598 | 2.03 | 0.18 | 32.7 |
| 4/23/2015 23:58:47 | 33.14 | 33.34 | 598 | 2.03 | 0.18 | 32.7 |
| 4/23/2015 23:58:47 | 33.46 | 33.66 | 601 | 2.04 | 0.18 | 32.9 |
| 4/23/2015 23:58:48 | 33.79 | 33.99 | 595 | 2.04 | 0.18 | 32.6 |
| 4/23/2015 23:58:49 | 34.12 | 34.32 | 592 | 2.04 | 0.18 | 32.4 |
| 4/23/2015 23:58:50 | 34.45 | 34.65 | 598 | 2.02 | 0.17 | 32.7 |
| 4/23/2015 23:58:50 | 34.78 | 34.98 | 595 | 2.02 | 0.18 | 32.6 |
| 4/23/2015 23:58:51 | 35.11 | 35.31 | 595 | 2.01 | 0.18 | 32.6 |
| 4/23/2015 23:58:51 | 35.43 | 35.63 | 598 | 2.02 | 0.18 | 32.7 |
| 4/23/2015 23:58:52 | 35.76 | 35.96 | 595 | 2.03 | 0.18 | 32.6 |
| 4/23/2015 23:58:53 | 36.09 | 36.29 | 593 | 2.05 | 0.18 | 32.4 |
| 4/23/2015 23:58:53 | 36.42 | 36.62 | 595 | 2.05 | 0.18 | 32.5 |
| 4/23/2015 23:58:54 | 36.75 | 36.95 | 588 | 2.03 | 0.17 | 32.2 |
| 4/23/2015 23:58:54 | 37.07 | 37.27 | 599 | 2.03 | 0.17 | 32.8 |
| 4/23/2015 23:58:55 | 37.40 | 37.60 | 589 | 2.03 | 0.17 | 32.2 |
| 4/23/2015 23:58:55 | 37.73 | 37.93 | 589 | 2.03 | 0.17 | 32.2 |
| 4/23/2015 23:58:56 | 38.06 | 38.26 | 596 | 2.04 | 0.17 | 32.6 |
| 4/23/2015 23:58:57 | 38.39 | 38.59 | 600 | 2.01 | 0.18 | 32.8 |
| 4/23/2015 23:58:57 | 38.71 | 38.91 | 590 | 2.04 | 0.18 | 32.2 |
| 4/23/2015 23:58:58 | 39.04 | 39.24 | 602 | 2.03 | 0.18 | 32.9 |
| 4/23/2015 23:58:58 | 39.37 | 39.57 | 593 | 2.04 | 0.18 | 32.4 |
| 4/23/2015 23:58:59 | 39.70 | 39.90 | 596 | 2.04 | 0.17 | 32.6 |
| 4/23/2015 23:58:59 | 40.03 | 40.23 | 596 | 2.03 | 0.18 | 32.6 |
| 4/23/2015 23:59:00 | 40.35 | 40.55 | 598 | 2.00 | 0.18 | 32.7 |
| 4/23/2015 23:59:01 | 40.68 | 40.88 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 23:59:02 | 41.01 | 41.21 | 595 | 2.02 | 0.17 | 32.6 |
| 4/23/2015 23:59:02 | 41.34 | 41.54 | 595 | 2.02 | 0.18 | 32.6 |
| 4/23/2015 23:59:03 | 41.67 | 41.87 | 596 | 2.03 | 0.18 | 32.6 |
| 4/23/2015 23:59:03 | 41.99 | 42.19 | 593 | 2.02 | 0.18 | 32.4 |
| 4/23/2015 23:59:04 | 42.32 | 42.52 | 595 | 2.03 | 0.18 | 32.6 |
| 4/23/2015 23:59:05 | 42.65 | 42.85 | 595 | 2.05 | 0.18 | 32.6 |
| 4/23/2015 23:59:05 | 42.98 | 43.18 | 595 | 2.02 | 0.18 | 32.6 |
| 4/23/2015 23:59:06 | 43.31 | 43.51 | 595 | 2.04 | 0.18 | 32.6 |
| 4/23/2015 23:59:06 | 43.64 | 43.84 | 593 | 2.03 | 0.18 | 32.4 |
| 4/23/2015 23:59:07 | 43.96 | 44.16 | 593 | 2.03 | 0.18 | 32.4 |
| 4/23/2015 23:59:07 | 44.29 | 44.49 | 593 | 2.02 | 0.18 | 32.4 |
| 4/23/2015 23:59:08 | 44.62 | 44.82 | 583 | 2.03 | 0.18 | 31.9 |
| 4/23/2015 23:59:09 | 44.95 | 45.15 | 590 | 2.04 | 0.18 | 32.2 |
| 4/23/2015 23:59:09 | 45.28 | 45.48 | 593 | 2.03 | 0.18 | 32.4 |
| 4/23/2015 23:59:10 | 45.60 | 45.80 | 589 | 2.03 | 0.18 | 32.2 |
| 4/23/2015 23:59:11 | 45.93 | 46.13 | 590 | 2.04 | 0.18 | 32.2 |
| 4/23/2015 23:59:11 | 46.26 | 46.46 | 599 | 2.03 | 0.18 | 32.8 |
| 4/23/2015 23:59:12 | 46.59 | 46.79 | 593 | 2.04 | 0.18 | 32.4 |
| 4/23/2015 23:59:13 | 46.92 | 47.12 | 596 | 2.02 | 0.18 | 32.6 |
| 4/23/2015 23:59:13 | 47.24 | 47.44 | 593 | 2.04 | 0.18 | 32.4 |
| 4/23/2015 23:59:14 | 47.57 | 47.77 | 590 | 1.98 | 0.18 | 32.2 |
| 4/23/2015 23:59:14 | 47.90 | 48.10 | 578 | 2.01 | 0.17 | 31.6 |
| 4/23/2015 23:59:37 | 48.23 | 48.43 | 0 | 2.05 | 1.16 | 0.0 |
| 4/23/2015 23:59:38 | 48.56 | 48.76 | 80 | 2.02 | 1.15 | 4.4 |
| 4/23/2015 23:59:39 | 48.88 | 49.08 | 283 | 1.91 | 1.15 | 15.5 |
| 4/23/2015 23:59:41 | 49.21 | 49.41 | 207 | 2.04 | 1.15 | 11.3 |
| 4/23/2015 23:59:43 | 49.54 | 49.74 | 139 | 2.02 | 1.15 | 7.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 23:59:44 | 49.87 | 50.07 | 217 | 2.01 | 1.15 | 11.9 |
| 4/23/2015 | 23:59:47 | 50.20 | 50.40 | 83 | 2.02 | 1.13 | 4.5 |
| 4/23/2015 | 23:59:49 | 50.53 | 50.73 | 220 | 2.02 | 1.13 | 12.0 |
| 4/23/2015 | 23:59:50 | 50.85 | 51.05 | 220 | 2.02 | 1.12 | 12.0 |
| 4/23/2015 | 23:59:51 | 51.18 | 51.38 | 221 | 2.04 | 1.12 | 12.1 |
| 4/23/2015 | 23:59:54 | 51.51 | 51.71 | 151 | 2.02 | 1.11 | 8.2 |
| 4/23/2015 | 23:59:54 | 51.84 | 52.04 | 164 | 2.01 | 1.11 | 9.0 |
| 4/23/2015 | 23:59:55 | 52.17 | 52.37 | 274 | 1.87 | 1.12 | 15.0 |
| 4/23/2015 | 23:59:57 | 52.49 | 52.69 | 284 | 2.02 | 1.11 | 15.5 |
| 4/23/2015 | 23:59:58 | 52.82 | 53.02 | 275 | 2.02 | 1.11 | 15.0 |
| 4/23/2015 | 23:59:58 | 53.15 | 53.35 | 320 | 2.03 | 1.10 | 17.5 |
| 4/24/2015 | 0:00:00 | 53.48 | 53.68 | 257 | 2.02 | 1.16 | 14.0 |
| 4/24/2015 | 0:00:01 | 53.81 | 54.01 | 204 | 2.02 | 1.17 | 11.2 |
| 4/24/2015 | 0:00:04 | 54.13 | 54.33 | 150 | 2.02 | 1.24 | 8.2 |
| 4/24/2015 | 0:00:05 | 54.46 | 54.66 | 211 | 2.04 | 1.15 | 11.5 |
| 4/24/2015 | 0:00:06 | 54.79 | 54.99 | 280 | 2.06 | 1.11 | 15.3 |
| 4/24/2015 | 0:00:06 | 54.99 | 55.19 | 383 | 2.09 | 1.07 | 20.9 |

## H123 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:56:55

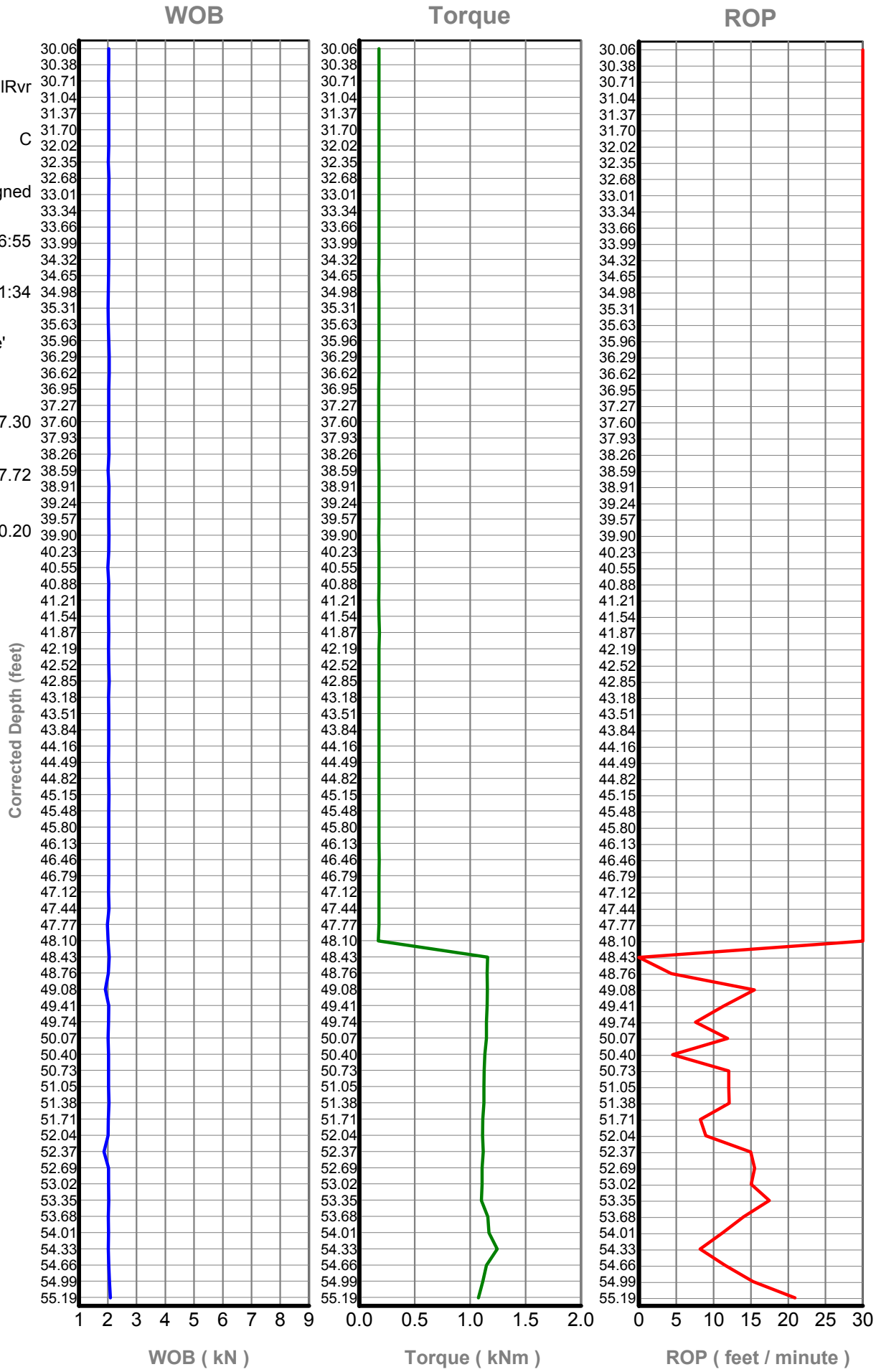
**End Date:**
4/24/2015 0:01:34

**Operator Note:**
'-0.2 -0.1 Auto Complete'

**Northing:**
367,267.30

**Easting:**
251,307.72

**Tide (feet):**
-0.20



## Hole: H124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:49:31 | 31.50 | 30.10 | 829 | 0.24 | 0.33 | 45.3 |
| 4/23/2015 21:49:31 | 31.82 | 30.42 | 829 | 0.24 | 0.33 | 45.3 |
| 4/23/2015 21:49:31 | 32.15 | 30.75 | 816 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:32 | 32.48 | 31.08 | 817 | 0.24 | 0.34 | 44.7 |
| 4/23/2015 21:49:32 | 32.81 | 31.41 | 811 | 0.24 | 0.34 | 44.4 |
| 4/23/2015 21:49:33 | 33.14 | 31.74 | 815 | 0.24 | 0.33 | 44.6 |
| 4/23/2015 21:49:33 | 33.46 | 32.06 | 824 | 0.24 | 0.34 | 45.1 |
| 4/23/2015 21:49:34 | 33.79 | 32.39 | 824 | 0.24 | 0.34 | 45.1 |
| 4/23/2015 21:49:34 | 34.12 | 32.72 | 827 | 0.24 | 0.34 | 45.2 |
| 4/23/2015 21:49:34 | 34.45 | 33.05 | 827 | 0.24 | 0.34 | 45.2 |
| 4/23/2015 21:49:35 | 34.78 | 33.38 | 824 | 0.24 | 0.34 | 45.0 |
| 4/23/2015 21:49:36 | 35.11 | 33.71 | 815 | 0.25 | 0.34 | 44.6 |
| 4/23/2015 21:49:36 | 35.43 | 34.03 | 810 | 0.24 | 0.34 | 44.3 |
| 4/23/2015 21:49:37 | 35.76 | 34.36 | 810 | 0.24 | 0.34 | 44.3 |
| 4/23/2015 21:49:37 | 36.09 | 34.69 | 815 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:37 | 36.42 | 35.02 | 815 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:38 | 36.75 | 35.35 | 812 | 0.24 | 0.34 | 44.4 |
| 4/23/2015 21:49:38 | 37.07 | 35.67 | 812 | 0.24 | 0.34 | 44.4 |
| 4/23/2015 21:49:39 | 37.40 | 36.00 | 812 | 0.24 | 0.34 | 44.4 |
| 4/23/2015 21:49:39 | 37.73 | 36.33 | 806 | 0.24 | 0.34 | 44.1 |
| 4/23/2015 21:49:40 | 38.06 | 36.66 | 806 | 0.24 | 0.34 | 44.1 |
| 4/23/2015 21:49:40 | 38.39 | 36.99 | 806 | 0.24 | 0.34 | 44.1 |
| 4/23/2015 21:49:40 | 38.71 | 37.31 | 804 | 0.24 | 0.34 | 44.0 |
| 4/23/2015 21:49:41 | 39.04 | 37.64 | 815 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:41 | 39.37 | 37.97 | 815 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:42 | 39.70 | 38.30 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:42 | 40.03 | 38.63 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:42 | 40.35 | 38.95 | 824 | 0.24 | 0.33 | 45.1 |
| 4/23/2015 21:49:43 | 40.68 | 39.28 | 830 | 0.24 | 0.34 | 45.4 |
| 4/23/2015 21:49:43 | 41.01 | 39.61 | 827 | 0.24 | 0.34 | 45.2 |
| 4/23/2015 21:49:44 | 41.34 | 39.94 | 827 | 0.24 | 0.34 | 45.2 |
| 4/23/2015 21:49:44 | 41.67 | 40.27 | 819 | 0.24 | 0.34 | 44.8 |
| 4/23/2015 21:49:45 | 41.99 | 40.59 | 819 | 0.24 | 0.34 | 44.8 |
| 4/23/2015 21:49:45 | 42.32 | 40.92 | 819 | 0.26 | 0.34 | 44.8 |
| 4/23/2015 21:49:46 | 42.65 | 41.25 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:46 | 42.98 | 41.58 | 818 | 0.24 | 0.34 | 44.7 |
| 4/23/2015 21:49:47 | 43.31 | 41.91 | 811 | 0.24 | 0.34 | 44.3 |
| 4/23/2015 21:49:47 | 43.64 | 42.24 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:48 | 43.96 | 42.56 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:48 | 44.29 | 42.89 | 818 | 0.24 | 0.33 | 44.8 |
| 4/23/2015 21:49:48 | 44.62 | 43.22 | 799 | 0.24 | 0.33 | 43.7 |
| 4/23/2015 21:49:49 | 44.95 | 43.55 | 799 | 0.24 | 0.34 | 43.7 |
| 4/23/2015 21:49:49 | 45.28 | 43.88 | 816 | 0.22 | 0.34 | 44.6 |
| 4/23/2015 21:49:50 | 45.60 | 44.20 | 806 | 0.24 | 0.33 | 44.1 |
| 4/23/2015 21:49:50 | 45.93 | 44.53 | 806 | 0.24 | 0.33 | 44.1 |
| 4/23/2015 21:49:50 | 46.26 | 44.86 | 803 | 0.24 | 0.34 | 43.9 |
| 4/23/2015 21:49:51 | 46.59 | 45.19 | 803 | 0.25 | 0.34 | 43.9 |
| 4/23/2015 21:49:51 | 46.92 | 45.52 | 819 | 0.24 | 0.34 | 44.8 |
| 4/23/2015 21:49:52 | 47.24 | 45.84 | 820 | 0.25 | 0.34 | 44.9 |
| 4/23/2015 21:49:52 | 47.57 | 46.17 | 820 | 0.33 | 0.35 | 44.9 |
| 4/23/2015 21:49:53 | 47.90 | 46.50 | 820 | 0.33 | 0.35 | 44.9 |
| 4/23/2015 21:49:53 | 48.23 | 46.83 | 804 | 0.24 | 0.34 | 44.0 |
| 4/23/2015 21:49:53 | 48.56 | 47.16 | 816 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:54 | 48.88 | 47.48 | 816 | 0.24 | 0.34 | 44.6 |
| 4/23/2015 21:49:54 | 49.21 | 47.81 | 821 | 0.24 | 0.34 | 44.9 |
| 4/23/2015 21:49:55 | 49.54 | 48.14 | 808 | -0.03 | 0.34 | 44.2 |
| 4/23/2015 21:49:56 | 49.87 | 48.47 | 808 | -0.03 | 0.34 | 44.2 |
| 4/23/2015 21:49:56 | 50.20 | 48.80 | 808 | 0.24 | 0.35 | 44.2 |
| 4/23/2015 21:49:56 | 50.53 | 49.13 | 801 | 0.24 | 0.35 | 43.8 |
| 4/23/2015 21:49:57 | 50.85 | 49.45 | 801 | 0.24 | 0.36 | 43.8 |
| 4/23/2015 21:49:58 | 51.18 | 49.78 | 725 | 0.23 | 0.36 | 39.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:49:58 | 51.51 | 50.11 | 677 | 0.23 | 0.37 | 37.0 |
| 4/23/2015 | 21:49:59 | 51.84 | 50.44 | 611 | 0.20 | 0.40 | 33.4 |
| 4/23/2015 | 21:50:03 | 52.17 | 50.77 | 107 | 0.24 | 0.40 | 5.8 |
| 4/23/2015 | 21:50:05 | 52.49 | 51.09 | 147 | 0.24 | 0.40 | 8.1 |
| 4/23/2015 | 21:50:30 | 52.82 | 51.42 | 0 | 2.67 | 0.35 | 0.0 |
| 4/23/2015 | 21:50:30 | 53.15 | 51.75 | 45 | 2.72 | 0.35 | 2.5 |
| 4/23/2015 | 21:50:31 | 53.48 | 52.08 | 182 | 2.87 | 0.36 | 10.0 |
| 4/23/2015 | 21:50:32 | 53.81 | 52.41 | 302 | 3.42 | 0.38 | 16.5 |
| 4/23/2015 | 21:50:33 | 54.13 | 52.73 | 417 | 3.18 | 0.37 | 22.8 |
| 4/23/2015 | 21:50:34 | 54.46 | 53.06 | 371 | 3.06 | 0.37 | 20.3 |
| 4/23/2015 | 21:50:35 | 54.79 | 53.39 | 329 | 3.31 | 0.38 | 18.0 |
| 4/23/2015 | 21:50:36 | 55.12 | 53.72 | 324 | 3.37 | 0.38 | 17.7 |
| 4/23/2015 | 21:50:37 | 55.45 | 54.05 | 309 | 2.97 | 0.36 | 16.9 |
| 4/23/2015 | 21:50:38 | 55.77 | 54.37 | 355 | 2.88 | 0.36 | 19.4 |
| 4/23/2015 | 21:50:39 | 56.10 | 54.70 | 465 | 2.88 | 0.36 | 25.4 |
| 4/23/2015 | 21:50:39 | 56.43 | 55.03 | 514 | 3.51 | 0.37 | 28.1 |
| 4/23/2015 | 21:50:40 | 56.76 | 55.36 | 532 | 3.75 | 0.37 | 29.1 |
| 4/23/2015 | 21:50:41 | 57.09 | 55.69 | 512 | 3.31 | 0.37 | 28.0 |
| 4/23/2015 | 21:50:42 | 57.41 | 56.01 | 428 | 4.45 | 0.40 | 23.4 |
| 4/23/2015 | 21:50:43 | 57.73 | 56.33 | 341 | 3.88 | 0.38 | 18.7 |

## H124 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:47:06

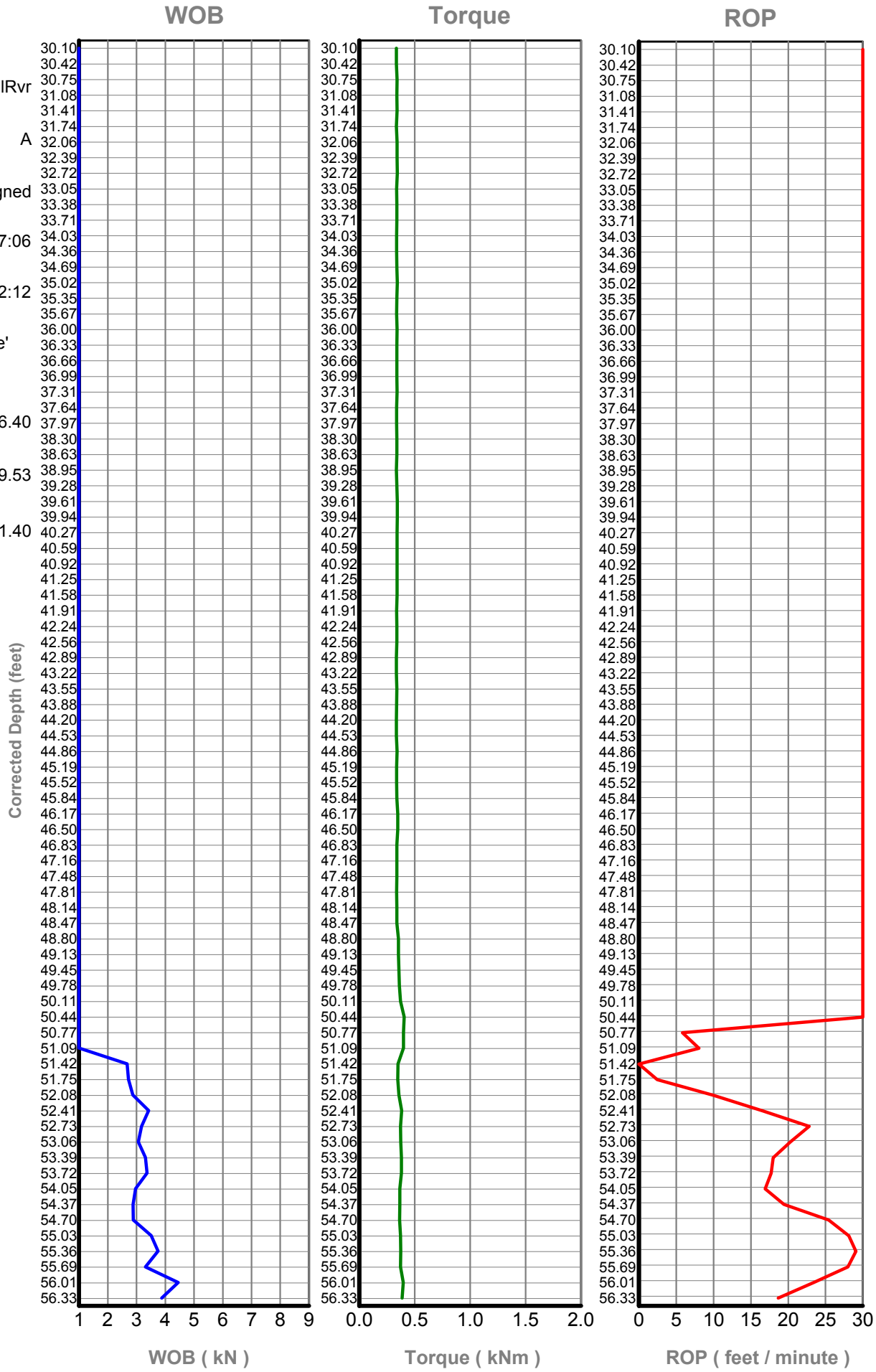
**End Date:**
4/23/2015 21:52:12

**Operator Note:**
'1.4 1.5 b Auto Complete'

**Northing:**
367,316.40

**Easting:**
251,369.53

**Tide (feet):**
1.40



## Hole: H125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:55:53 | 31.50 | 30.10 | 823 | 0.93 | 0.31 | 45.0 |
| 4/23/2015 21:55:53 | 31.82 | 30.42 | 820 | 0.94 | 0.33 | 44.8 |
| 4/23/2015 21:55:54 | 32.15 | 30.75 | 820 | 0.94 | 0.33 | 44.8 |
| 4/23/2015 21:55:54 | 32.48 | 31.08 | 803 | 0.93 | 0.33 | 43.9 |
| 4/23/2015 21:55:54 | 32.81 | 31.41 | 820 | 0.94 | 0.34 | 44.8 |
| 4/23/2015 21:55:55 | 33.14 | 31.74 | 820 | 0.93 | 0.34 | 44.8 |
| 4/23/2015 21:55:55 | 33.46 | 32.06 | 826 | 0.94 | 0.34 | 45.2 |
| 4/23/2015 21:55:56 | 33.79 | 32.39 | 826 | 0.94 | 0.34 | 45.2 |
| 4/23/2015 21:55:56 | 34.12 | 32.72 | 826 | 0.22 | 0.34 | 45.2 |
| 4/23/2015 21:55:56 | 34.45 | 33.05 | 844 | 0.22 | 0.34 | 46.1 |
| 4/23/2015 21:55:57 | 34.78 | 33.38 | 835 | 0.24 | 0.34 | 45.7 |
| 4/23/2015 21:55:57 | 35.11 | 33.71 | 835 | 0.22 | 0.34 | 45.7 |
| 4/23/2015 21:55:58 | 35.43 | 34.03 | 835 | 0.22 | 0.34 | 45.7 |
| 4/23/2015 21:55:59 | 35.76 | 34.36 | 835 | 0.22 | 0.34 | 45.7 |
| 4/23/2015 21:55:58 | 36.09 | 34.69 | 848 | 0.22 | 0.34 | 46.4 |
| 4/23/2015 21:55:59 | 36.42 | 35.02 | 848 | 0.22 | 0.34 | 46.4 |
| 4/23/2015 21:55:59 | 36.75 | 35.35 | 834 | 0.22 | 0.34 | 45.6 |
| 4/23/2015 21:56:00 | 37.07 | 35.67 | 834 | 0.22 | 0.33 | 45.6 |
| 4/23/2015 21:56:01 | 37.40 | 36.00 | 834 | 0.22 | 0.33 | 45.6 |
| 4/23/2015 21:56:01 | 37.73 | 36.33 | 847 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 21:56:01 | 38.06 | 36.66 | 847 | 0.22 | 0.34 | 46.3 |
| 4/23/2015 21:56:02 | 38.39 | 36.99 | 854 | 0.21 | 0.33 | 46.7 |
| 4/23/2015 21:56:17 | 38.71 | 37.31 | 6 | 0.22 | 0.35 | 0.3 |
| 4/23/2015 21:56:17 | 39.04 | 37.64 | 137 | 0.24 | 0.34 | 7.5 |
| 4/23/2015 21:56:18 | 39.37 | 37.97 | 137 | 0.24 | 0.34 | 7.5 |
| 4/23/2015 21:56:18 | 39.70 | 38.30 | 297 | 0.24 | 0.34 | 16.3 |
| 4/23/2015 21:56:18 | 40.03 | 38.63 | 454 | 0.23 | 0.34 | 24.8 |
| 4/23/2015 21:56:19 | 40.35 | 38.95 | 619 | 0.23 | 0.34 | 33.9 |
| 4/23/2015 21:56:19 | 40.68 | 39.28 | 770 | 0.23 | 0.34 | 42.1 |
| 4/23/2015 21:56:20 | 41.01 | 39.61 | 804 | 0.22 | 0.34 | 43.9 |
| 4/23/2015 21:56:20 | 41.34 | 39.94 | 804 | 0.23 | 0.34 | 43.9 |
| 4/23/2015 21:56:21 | 41.67 | 40.27 | 804 | 0.23 | 0.34 | 43.9 |
| 4/23/2015 21:56:21 | 41.99 | 40.59 | 811 | 0.22 | 0.34 | 44.4 |
| 4/23/2015 21:56:22 | 42.32 | 40.92 | 809 | 0.23 | 0.34 | 44.3 |
| 4/23/2015 21:56:22 | 42.65 | 41.25 | 818 | 0.23 | 0.34 | 44.7 |
| 4/23/2015 21:56:23 | 42.98 | 41.58 | 818 | 0.20 | 0.33 | 44.7 |
| 4/23/2015 21:56:23 | 43.31 | 41.91 | 821 | 0.23 | 0.34 | 44.9 |
| 4/23/2015 21:56:24 | 43.64 | 42.24 | 821 | 0.23 | 0.34 | 44.9 |
| 4/23/2015 21:56:24 | 43.96 | 42.56 | 822 | 0.23 | 0.34 | 44.9 |
| 4/23/2015 21:56:24 | 44.29 | 42.89 | 833 | 0.23 | 0.34 | 45.5 |
| 4/23/2015 21:56:25 | 44.62 | 43.22 | 827 | 0.22 | 0.34 | 45.2 |
| 4/23/2015 21:56:25 | 44.95 | 43.55 | 833 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 21:56:26 | 45.28 | 43.88 | 833 | 0.22 | 0.33 | 45.5 |
| 4/23/2015 21:56:26 | 45.60 | 44.20 | 836 | 0.22 | 0.34 | 45.7 |
| 4/23/2015 21:56:26 | 45.93 | 44.53 | 828 | 0.23 | 0.33 | 45.3 |
| 4/23/2015 21:56:27 | 46.26 | 44.86 | 827 | 0.23 | 0.34 | 45.2 |
| 4/23/2015 21:56:27 | 46.59 | 45.19 | 833 | 0.23 | 0.34 | 45.6 |
| 4/23/2015 21:56:28 | 46.92 | 45.52 | 828 | 0.23 | 0.33 | 45.3 |
| 4/23/2015 21:56:28 | 47.24 | 45.84 | 828 | 0.23 | 0.33 | 45.3 |
| 4/23/2015 21:56:28 | 47.57 | 46.17 | 826 | 0.23 | 0.34 | 45.2 |
| 4/23/2015 21:56:29 | 47.90 | 46.50 | 844 | 0.23 | 0.33 | 46.1 |
| 4/23/2015 21:56:29 | 48.23 | 46.83 | 819 | 0.23 | 0.34 | 44.8 |
| 4/23/2015 21:56:30 | 48.56 | 47.16 | 819 | 0.23 | 0.34 | 44.8 |
| 4/23/2015 21:56:30 | 48.88 | 47.48 | 819 | 0.23 | 0.34 | 44.8 |
| 4/23/2015 21:56:31 | 49.21 | 47.81 | 831 | 0.22 | 0.35 | 45.4 |
| 4/23/2015 21:56:31 | 49.54 | 48.14 | 801 | 0.22 | 0.35 | 43.8 |
| 4/23/2015 21:56:32 | 49.87 | 48.47 | 801 | 0.22 | 0.35 | 43.8 |
| 4/23/2015 21:56:32 | 50.20 | 48.80 | 784 | 0.22 | 0.35 | 42.9 |
| 4/23/2015 21:56:33 | 50.53 | 49.13 | 728 | 0.22 | 0.35 | 39.8 |
| 4/23/2015 21:56:33 | 50.85 | 49.45 | 728 | 0.50 | 0.35 | 39.8 |
| 4/23/2015 21:56:34 | 51.18 | 49.78 | 714 | 0.22 | 0.35 | 39.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:56:35 | 51.51 | 50.11 | 669 | 0.22 | 0.35 | 36.6 |
| 4/23/2015 | 21:56:35 | 51.84 | 50.44 | 646 | 0.24 | 0.35 | 35.3 |
| 4/23/2015 | 21:56:36 | 52.17 | 50.77 | 624 | 0.22 | 0.36 | 34.1 |
| 4/23/2015 | 21:56:36 | 52.49 | 51.09 | 624 | 0.22 | 0.36 | 34.1 |
| 4/23/2015 | 21:56:37 | 52.82 | 51.42 | 631 | 0.22 | 0.36 | 34.5 |
| 4/23/2015 | 21:56:37 | 53.15 | 51.75 | 599 | 0.22 | 0.36 | 32.7 |
| 4/23/2015 | 21:56:38 | 53.48 | 52.08 | 581 | 0.22 | 0.36 | 31.8 |
| 4/23/2015 | 21:56:39 | 53.81 | 52.41 | 589 | 0.22 | 0.36 | 32.2 |
| 4/23/2015 | 21:56:39 | 54.13 | 52.73 | 577 | 0.22 | 0.36 | 31.6 |
| 4/23/2015 | 21:56:40 | 54.46 | 53.06 | 569 | 0.22 | 0.36 | 31.1 |
| 4/23/2015 | 21:56:40 | 54.79 | 53.39 | 578 | 0.22 | 0.36 | 31.6 |
| 4/23/2015 | 21:56:41 | 55.12 | 53.72 | 581 | 0.22 | 0.36 | 31.8 |
| 4/23/2015 | 21:56:42 | 55.45 | 54.05 | 578 | 0.22 | 0.36 | 31.6 |
| 4/23/2015 | 21:56:43 | 55.77 | 54.37 | 575 | 0.22 | 0.36 | 31.4 |
| 4/23/2015 | 21:56:43 | 56.10 | 54.70 | 579 | 0.22 | 0.36 | 31.7 |
| 4/23/2015 | 21:56:44 | 56.43 | 55.03 | 567 | 0.22 | 0.36 | 31.0 |
| 4/23/2015 | 21:56:45 | 56.76 | 55.36 | 541 | 0.21 | 0.38 | 29.6 |
| 4/23/2015 | 21:56:45 | 56.81 | 55.41 | 541 | 0.21 | 0.38 | 29.6 |

## H125 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:53:04

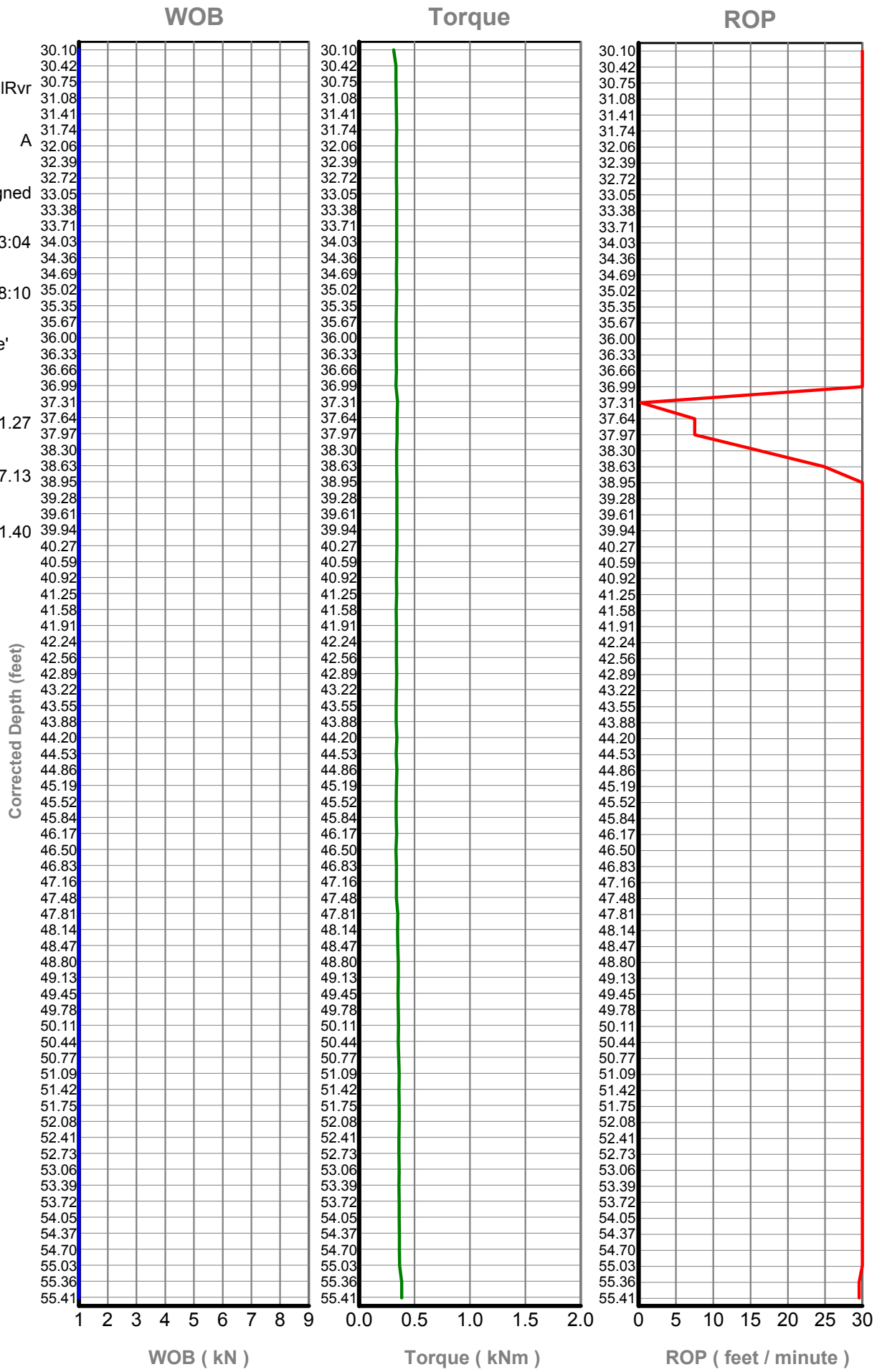
**End Date:**
4/23/2015 21:58:10

**Operator Note:**
'1.4 1.5 b Auto Complete'

**Northing:**
367,351.27

**Easting:**
251,417.13

**Tide (feet):**
1.40



## Hole: H126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:49:09 | 31.50 | 30.10 | 590 | 2.02 | 0.17 | 32.3 |
| 4/23/2015 21:49:10 | 31.82 | 30.42 | 591 | 2.03 | 0.17 | 32.3 |
| 4/23/2015 21:49:11 | 32.15 | 30.75 | 598 | 2.01 | 0.17 | 32.7 |
| 4/23/2015 21:49:11 | 32.48 | 31.08 | 601 | 1.98 | 0.17 | 32.9 |
| 4/23/2015 21:49:12 | 32.81 | 31.41 | 589 | 1.99 | 0.17 | 32.2 |
| 4/23/2015 21:49:12 | 33.14 | 31.74 | 602 | 2.02 | 0.17 | 32.9 |
| 4/23/2015 21:49:13 | 33.46 | 32.06 | 605 | 1.98 | 0.17 | 33.1 |
| 4/23/2015 21:49:14 | 33.79 | 32.39 | 588 | 1.99 | 0.17 | 32.2 |
| 4/23/2015 21:49:15 | 34.12 | 32.72 | 592 | 2.02 | 0.17 | 32.4 |
| 4/23/2015 21:49:15 | 34.45 | 33.05 | 602 | 2.00 | 0.17 | 32.9 |
| 4/23/2015 21:49:16 | 34.78 | 33.38 | 603 | 2.00 | 0.17 | 33.0 |
| 4/23/2015 21:49:16 | 35.11 | 33.71 | 597 | 1.99 | 0.17 | 32.6 |
| 4/23/2015 21:49:17 | 35.43 | 34.03 | 603 | 2.00 | 0.17 | 33.0 |
| 4/23/2015 21:49:17 | 35.76 | 34.36 | 603 | 1.98 | 0.16 | 33.0 |
| 4/23/2015 21:49:18 | 36.09 | 34.69 | 600 | 2.00 | 0.17 | 32.8 |
| 4/23/2015 21:49:19 | 36.42 | 35.02 | 599 | 1.99 | 0.17 | 32.7 |
| 4/23/2015 21:49:19 | 36.75 | 35.35 | 602 | 1.95 | 0.17 | 32.9 |
| 4/23/2015 21:49:20 | 37.07 | 35.67 | 609 | 2.02 | 0.17 | 33.3 |
| 4/23/2015 21:49:20 | 37.40 | 36.00 | 601 | 2.02 | 0.17 | 32.9 |
| 4/23/2015 21:49:21 | 37.73 | 36.33 | 589 | 2.01 | 0.17 | 32.2 |
| 4/23/2015 21:49:21 | 38.06 | 36.66 | 589 | 2.00 | 0.15 | 32.2 |
| 4/23/2015 21:49:22 | 38.39 | 36.99 | 595 | 2.01 | 0.17 | 32.6 |
| 4/23/2015 21:49:23 | 38.71 | 37.31 | 583 | 1.98 | 0.17 | 31.9 |
| 4/23/2015 21:49:23 | 39.04 | 37.64 | 593 | 2.01 | 0.17 | 32.4 |
| 4/23/2015 21:49:24 | 39.37 | 37.97 | 603 | 2.00 | 0.17 | 33.0 |
| 4/23/2015 21:49:24 | 39.70 | 38.30 | 599 | 2.00 | 0.17 | 32.8 |
| 4/23/2015 21:49:25 | 40.03 | 38.63 | 596 | 1.97 | 0.17 | 32.6 |
| 4/23/2015 21:49:26 | 40.35 | 38.95 | 606 | 2.00 | 0.17 | 33.1 |
| 4/23/2015 21:49:26 | 40.68 | 39.28 | 598 | 1.97 | 0.17 | 32.7 |
| 4/23/2015 21:49:27 | 41.01 | 39.61 | 595 | 1.99 | 0.17 | 32.6 |
| 4/23/2015 21:49:28 | 41.34 | 39.94 | 598 | 2.00 | 0.17 | 32.7 |
| 4/23/2015 21:49:28 | 41.67 | 40.27 | 598 | 2.00 | 0.17 | 32.7 |
| 4/23/2015 21:49:29 | 41.99 | 40.59 | 595 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:29 | 42.32 | 40.92 | 592 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 21:49:30 | 42.65 | 41.25 | 598 | 2.00 | 0.17 | 32.7 |
| 4/23/2015 21:49:31 | 42.98 | 41.58 | 596 | 1.98 | 0.17 | 32.6 |
| 4/23/2015 21:49:31 | 43.31 | 41.91 | 596 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:32 | 43.64 | 42.24 | 596 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:32 | 43.96 | 42.56 | 593 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 21:49:33 | 44.29 | 42.89 | 595 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:33 | 44.62 | 43.22 | 592 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 21:49:34 | 44.95 | 43.55 | 598 | 2.00 | 0.17 | 32.7 |
| 4/23/2015 21:49:35 | 45.28 | 43.88 | 595 | 2.06 | 0.17 | 32.6 |
| 4/23/2015 21:49:35 | 45.60 | 44.20 | 593 | 2.08 | 0.17 | 32.4 |
| 4/23/2015 21:49:36 | 45.93 | 44.53 | 599 | 2.01 | 0.17 | 32.8 |
| 4/23/2015 21:49:37 | 46.26 | 44.86 | 593 | 1.99 | 0.17 | 32.4 |
| 4/23/2015 21:49:37 | 46.59 | 45.19 | 596 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:38 | 46.92 | 45.52 | 595 | 2.00 | 0.17 | 32.5 |
| 4/23/2015 21:49:38 | 47.24 | 45.84 | 599 | 2.00 | 0.17 | 32.7 |
| 4/23/2015 21:49:39 | 47.57 | 46.17 | 596 | 2.01 | 0.17 | 32.6 |
| 4/23/2015 21:49:40 | 47.90 | 46.50 | 592 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 21:49:40 | 48.23 | 46.83 | 599 | 2.00 | 0.17 | 32.8 |
| 4/23/2015 21:49:41 | 48.56 | 47.16 | 596 | 2.01 | 0.17 | 32.6 |
| 4/23/2015 21:49:41 | 48.88 | 47.48 | 596 | 2.02 | 0.17 | 32.6 |
| 4/23/2015 21:49:42 | 49.21 | 47.81 | 593 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 21:49:43 | 49.54 | 48.14 | 593 | 2.01 | 0.17 | 32.4 |
| 4/23/2015 21:49:43 | 49.87 | 48.47 | 593 | 2.01 | 0.17 | 32.4 |
| 4/23/2015 21:49:44 | 50.20 | 48.80 | 592 | 2.02 | 0.17 | 32.4 |
| 4/23/2015 21:49:44 | 50.53 | 49.13 | 595 | 2.00 | 0.17 | 32.6 |
| 4/23/2015 21:49:45 | 50.85 | 49.45 | 593 | 2.01 | 0.17 | 32.4 |
| 4/23/2015 21:49:45 | 51.18 | 49.78 | 593 | 2.01 | 0.17 | 32.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:49:47 | 51.51 | 50.11 | 593 | 2.02 | 0.17 | 32.4 |
| 4/23/2015 | 21:49:47 | 51.84 | 50.44 | 593 | 2.00 | 0.17 | 32.4 |
| 4/23/2015 | 21:49:48 | 52.17 | 50.77 | 593 | 1.98 | 0.17 | 32.4 |
| 4/23/2015 | 21:49:48 | 52.49 | 51.09 | 586 | 2.01 | 0.17 | 32.1 |
| 4/23/2015 | 21:49:49 | 52.82 | 51.42 | 590 | 2.00 | 0.17 | 32.3 |
| 4/23/2015 | 21:49:49 | 53.15 | 51.75 | 590 | 2.00 | 0.17 | 32.3 |
| 4/23/2015 | 21:49:50 | 53.48 | 52.08 | 575 | 1.99 | 0.17 | 31.5 |
| 4/23/2015 | 21:50:05 | 53.81 | 52.41 | 0 | 2.03 | 1.15 | 0.0 |
| 4/23/2015 | 21:50:06 | 54.13 | 52.73 | 96 | 2.01 | 1.19 | 5.2 |
| 4/23/2015 | 21:50:06 | 54.46 | 53.06 | 198 | 2.02 | 1.15 | 10.9 |
| 4/23/2015 | 21:50:19 | 54.79 | 53.39 | 8 | 2.04 | 1.11 | 0.4 |
| 4/23/2015 | 21:50:22 | 55.12 | 53.72 | 108 | 2.03 | 1.10 | 5.9 |
| 4/23/2015 | 21:50:23 | 55.45 | 54.05 | 82 | 2.03 | 1.10 | 4.5 |
| 4/23/2015 | 21:50:23 | 55.77 | 54.37 | 185 | 2.00 | 1.15 | 10.1 |
| 4/23/2015 | 21:50:26 | 56.10 | 54.70 | 117 | 2.02 | 1.09 | 6.4 |
| 4/23/2015 | 21:50:29 | 56.43 | 55.03 | 77 | 2.05 | 1.08 | 4.2 |
| 4/23/2015 | 21:50:29 | 56.47 | 55.07 | 163 | 1.81 | 1.08 | 8.9 |

## H126 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:47:23

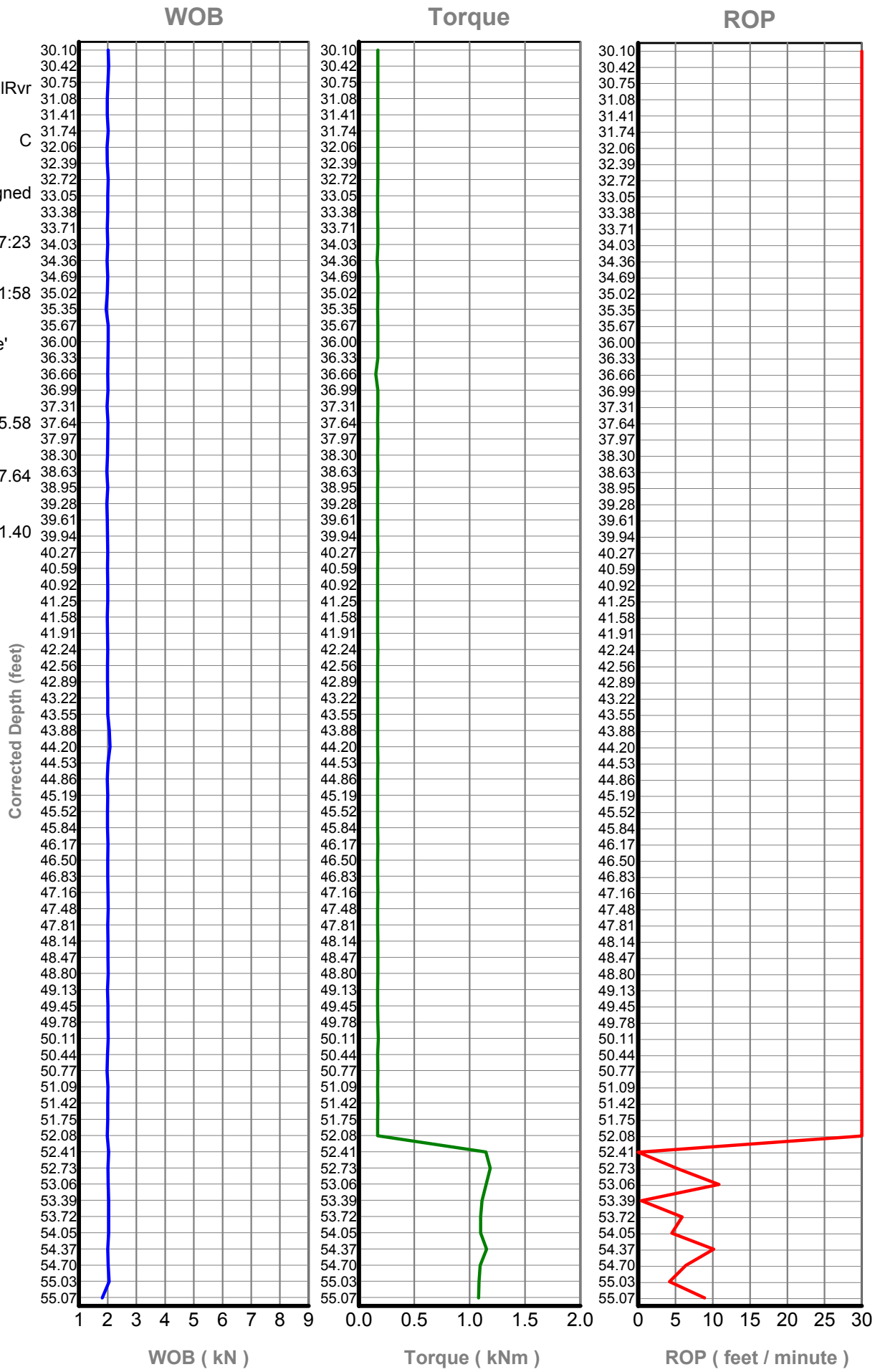
**End Date:**
4/23/2015 21:51:58

**Operator Note:**
'1.4 1.5 c Auto Complete'

**Northing:**
367,395.58

**Easting:**
251,477.64

**Tide (feet):**
1.40



## Hole: H127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:29:00 | 35.76 | 30.26 | 733 | 1.07 | 0.90 | 40.1 |
| 4/27/2015 9:29:01 | 36.09 | 30.59 | 727 | 1.06 | 0.89 | 39.7 |
| 4/27/2015 9:29:01 | 36.42 | 30.92 | 723 | 1.05 | 0.90 | 39.5 |
| 4/27/2015 9:29:02 | 36.75 | 31.25 | 742 | 1.04 | 0.90 | 40.6 |
| 4/27/2015 9:29:02 | 37.07 | 31.57 | 731 | 1.05 | 0.89 | 40.0 |
| 4/27/2015 9:29:03 | 37.40 | 31.90 | 736 | 1.07 | 0.89 | 40.2 |
| 4/27/2015 9:29:03 | 37.73 | 32.23 | 733 | 1.07 | 0.85 | 40.1 |
| 4/27/2015 9:29:04 | 38.06 | 32.56 | 724 | 1.06 | 0.83 | 39.6 |
| 4/27/2015 9:29:04 | 38.39 | 32.89 | 724 | 1.05 | 0.80 | 39.6 |
| 4/27/2015 9:29:05 | 38.71 | 33.21 | 727 | 1.06 | 0.73 | 39.7 |
| 4/27/2015 9:29:05 | 39.04 | 33.54 | 727 | 1.07 | 0.35 | 39.7 |
| 4/27/2015 9:29:06 | 39.37 | 33.87 | 722 | 1.06 | 0.38 | 39.5 |
| 4/27/2015 9:29:06 | 39.70 | 34.20 | 728 | 1.06 | 0.40 | 39.8 |
| 4/27/2015 9:29:07 | 40.03 | 34.53 | 738 | 1.05 | 0.19 | 40.4 |
| 4/27/2015 9:29:07 | 40.35 | 34.85 | 738 | 1.05 | 0.19 | 40.4 |
| 4/27/2015 9:29:07 | 40.68 | 35.18 | 726 | 1.06 | 0.19 | 39.7 |
| 4/27/2015 9:29:08 | 41.01 | 35.51 | 728 | 1.06 | 0.19 | 39.8 |
| 4/27/2015 9:29:09 | 41.34 | 35.84 | 730 | 1.05 | 0.19 | 39.9 |
| 4/27/2015 9:29:09 | 41.67 | 36.17 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 9:29:10 | 41.99 | 36.49 | 724 | 1.07 | 0.19 | 39.6 |
| 4/27/2015 9:29:10 | 42.32 | 36.82 | 734 | 1.06 | 0.19 | 40.2 |
| 4/27/2015 9:29:11 | 42.65 | 37.15 | 720 | 1.05 | 0.19 | 39.4 |
| 4/27/2015 9:29:11 | 42.98 | 37.48 | 720 | 1.06 | 0.19 | 39.4 |
| 4/27/2015 9:29:12 | 43.31 | 37.81 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 9:29:12 | 43.64 | 38.14 | 729 | 1.05 | 0.19 | 39.9 |
| 4/27/2015 9:29:13 | 43.96 | 38.46 | 730 | 1.06 | 0.19 | 39.9 |
| 4/27/2015 9:29:13 | 44.29 | 38.79 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 9:29:14 | 44.62 | 39.12 | 730 | 1.06 | 0.19 | 39.9 |
| 4/27/2015 9:29:14 | 44.95 | 39.45 | 732 | 1.05 | 0.20 | 40.0 |
| 4/27/2015 9:29:15 | 45.28 | 39.78 | 729 | 1.06 | 0.19 | 39.9 |
| 4/27/2015 9:29:15 | 45.60 | 40.10 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 9:29:16 | 45.93 | 40.43 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 9:29:16 | 46.26 | 40.76 | 726 | 1.05 | 0.19 | 39.7 |
| 4/27/2015 9:29:16 | 46.59 | 41.09 | 726 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 9:29:17 | 46.92 | 41.42 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 9:29:17 | 47.24 | 41.74 | 726 | 1.05 | 0.19 | 39.7 |
| 4/27/2015 9:29:18 | 47.57 | 42.07 | 724 | 1.07 | 0.19 | 39.6 |
| 4/27/2015 9:29:19 | 47.90 | 42.40 | 726 | 1.05 | 0.19 | 39.7 |
| 4/27/2015 9:29:19 | 48.23 | 42.73 | 730 | 1.06 | 0.19 | 39.9 |
| 4/27/2015 9:29:20 | 48.56 | 43.06 | 726 | 1.05 | 0.19 | 39.7 |
| 4/27/2015 9:29:20 | 48.88 | 43.38 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 9:29:21 | 49.21 | 43.71 | 723 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 9:29:21 | 49.54 | 44.04 | 723 | 1.05 | 0.19 | 39.5 |
| 4/27/2015 9:29:22 | 49.87 | 44.37 | 709 | 1.07 | 0.19 | 38.8 |
| 4/27/2015 9:29:22 | 50.20 | 44.70 | 709 | 1.06 | 0.19 | 38.8 |
| 4/27/2015 9:29:23 | 50.53 | 45.03 | 713 | 1.05 | 0.19 | 39.0 |
| 4/27/2015 9:29:23 | 50.85 | 45.35 | 710 | 1.06 | 0.19 | 38.8 |
| 4/27/2015 9:29:24 | 51.18 | 45.68 | 712 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 9:29:24 | 51.51 | 46.01 | 704 | 1.07 | 0.19 | 38.5 |
| 4/27/2015 9:29:25 | 51.84 | 46.34 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 9:29:25 | 52.17 | 46.67 | 708 | 1.11 | 0.18 | 38.7 |
| 4/27/2015 9:29:41 | 52.49 | 46.99 | 66 | 1.06 | 0.81 | 3.6 |
| 4/27/2015 9:29:41 | 52.82 | 47.32 | 177 | 1.00 | 1.08 | 9.7 |
| 4/27/2015 9:29:42 | 53.15 | 47.65 | 363 | 1.09 | 1.09 | 19.9 |
| 4/27/2015 9:29:43 | 53.48 | 47.98 | 393 | 1.14 | 1.22 | 21.5 |
| 4/27/2015 9:29:45 | 53.81 | 48.31 | 271 | 1.03 | 1.22 | 14.8 |
| 4/27/2015 9:29:46 | 54.13 | 48.63 | 288 | 1.00 | 1.45 | 15.8 |
| 4/27/2015 9:29:47 | 54.46 | 48.96 | 289 | 1.09 | 1.50 | 15.8 |
| 4/27/2015 9:29:48 | 54.79 | 49.29 | 305 | 1.06 | 1.06 | 16.7 |
| 4/27/2015 9:29:49 | 55.12 | 49.62 | 301 | 1.03 | 1.23 | 16.5 |
| 4/27/2015 9:29:51 | 55.45 | 49.95 | 307 | 1.02 | 1.00 | 16.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:29:51 | 55.77 | 50.27 | 315 | 1.04 | 0.85 | 17.2 |
| 4/27/2015 | 9:29:52 | 56.10 | 50.60 | 376 | 1.02 | 0.83 | 20.5 |
| 4/27/2015 | 9:29:53 | 56.43 | 50.93 | 422 | 1.07 | 0.95 | 23.1 |
| 4/27/2015 | 9:29:54 | 56.76 | 51.26 | 379 | 1.04 | 1.08 | 20.7 |
| 4/27/2015 | 9:29:55 | 57.09 | 51.59 | 350 | 1.01 | 0.90 | 19.1 |
| 4/27/2015 | 9:29:56 | 57.41 | 51.91 | 353 | 1.09 | 1.19 | 19.3 |
| 4/27/2015 | 9:29:57 | 57.74 | 52.24 | 393 | 1.01 | 1.03 | 21.5 |
| 4/27/2015 | 9:29:58 | 58.07 | 52.57 | 387 | 1.01 | 1.22 | 21.2 |
| 4/27/2015 | 9:29:59 | 58.40 | 52.90 | 355 | 1.05 | 1.01 | 19.4 |
| 4/27/2015 | 9:30:01 | 58.73 | 53.23 | 312 | 1.02 | 1.38 | 17.1 |
| 4/27/2015 | 9:30:02 | 59.06 | 53.56 | 304 | 1.03 | 1.19 | 16.6 |
| 4/27/2015 | 9:30:03 | 59.38 | 53.88 | 309 | 1.11 | 1.00 | 16.9 |
| 4/27/2015 | 9:30:04 | 59.71 | 54.21 | 336 | 1.00 | 1.41 | 18.3 |
| 4/27/2015 | 9:30:05 | 60.04 | 54.54 | 338 | 1.03 | 1.07 | 18.5 |
| 4/27/2015 | 9:30:06 | 60.37 | 54.87 | 333 | 1.02 | 1.23 | 18.2 |
| 4/27/2015 | 9:30:07 | 60.70 | 55.20 | 326 | 1.06 | 1.07 | 17.8 |
| 4/27/2015 | 9:30:07 | 60.73 | 55.23 | 326 | 1.06 | 1.07 | 17.8 |

## H127 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:26:25

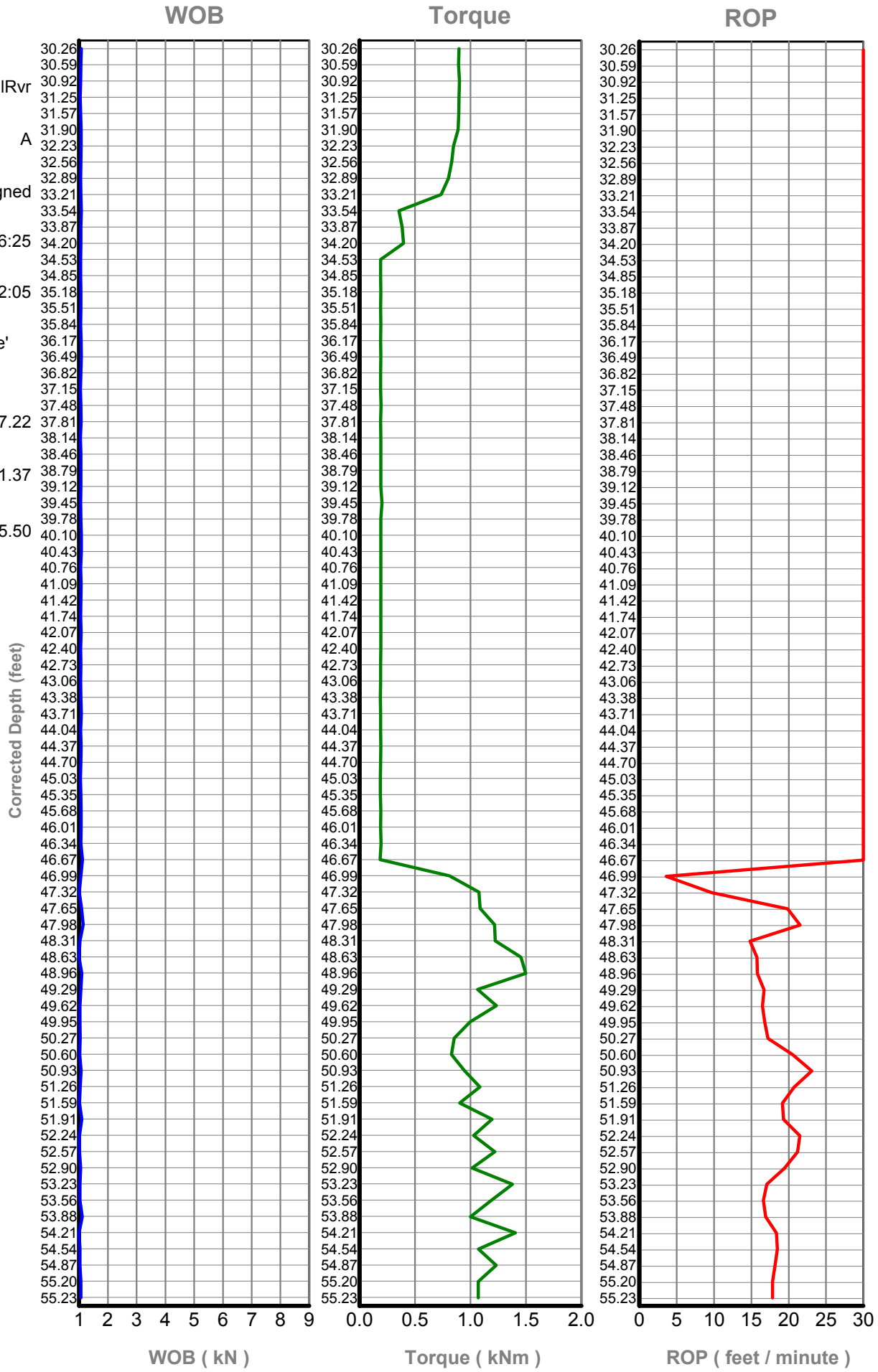
**End Date:**
4/27/2015 9:32:05

**Operator Note:**
'5.5 5.6 a Auto Complete'

**Northing:**
365,427.22

**Easting:**
249,141.37

**Tide (feet):**
5.50



## Hole: H128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:28:18 | 35.76 | 30.06 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:18 | 36.09 | 30.39 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 9:28:18 | 36.42 | 30.72 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 9:28:18 | 36.75 | 31.05 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:19 | 37.07 | 31.37 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:20 | 37.40 | 31.70 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:19 | 37.73 | 32.03 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/27/2015 9:28:20 | 38.06 | 32.36 | 1,076 | 0.29 | 0.31 | 58.8 |
| 4/27/2015 9:28:21 | 38.39 | 32.69 | 1,076 | 0.29 | 0.31 | 58.8 |
| 4/27/2015 9:28:21 | 38.71 | 33.01 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/27/2015 9:28:21 | 39.04 | 33.34 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/27/2015 9:28:22 | 39.37 | 33.67 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/27/2015 9:28:22 | 39.70 | 34.00 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:22 | 40.03 | 34.33 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 9:28:22 | 40.35 | 34.65 | 1,075 | 0.29 | 0.32 | 58.8 |
| 4/27/2015 9:28:23 | 40.68 | 34.98 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/27/2015 9:28:23 | 41.01 | 35.31 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/27/2015 9:28:23 | 41.34 | 35.64 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/27/2015 9:28:24 | 41.67 | 35.97 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/27/2015 9:28:24 | 41.99 | 36.29 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/27/2015 9:28:24 | 42.32 | 36.62 | 1,072 | 0.24 | 0.31 | 58.6 |
| 4/27/2015 9:28:25 | 42.65 | 36.95 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/27/2015 9:28:25 | 42.98 | 37.28 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/27/2015 9:28:25 | 43.31 | 37.61 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/27/2015 9:28:26 | 43.64 | 37.94 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/27/2015 9:28:26 | 43.96 | 38.26 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/27/2015 9:28:26 | 44.29 | 38.59 | 1,067 | 0.29 | 0.31 | 58.4 |
| 4/27/2015 9:28:27 | 44.62 | 38.92 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/27/2015 9:28:27 | 44.95 | 39.25 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/27/2015 9:28:27 | 45.28 | 39.58 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 9:28:28 | 45.60 | 39.90 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 9:28:28 | 45.93 | 40.23 | 1,049 | 0.29 | 0.32 | 57.4 |
| 4/27/2015 9:28:28 | 46.26 | 40.56 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 9:28:29 | 46.59 | 40.89 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 9:28:29 | 46.92 | 41.22 | 1,052 | 0.29 | 0.32 | 57.5 |
| 4/27/2015 9:28:29 | 47.24 | 41.54 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:30 | 47.57 | 41.87 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:30 | 47.90 | 42.20 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:31 | 48.23 | 42.53 | 1,052 | 0.29 | 0.31 | 57.5 |
| 4/27/2015 9:28:31 | 48.56 | 42.86 | 1,052 | 0.29 | 0.31 | 57.5 |
| 4/27/2015 9:28:31 | 48.88 | 43.18 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:32 | 49.21 | 43.51 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/27/2015 9:28:32 | 49.54 | 43.84 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/27/2015 9:28:32 | 49.87 | 44.17 | 1,040 | 0.29 | 0.32 | 56.9 |
| 4/27/2015 9:28:33 | 50.20 | 44.50 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:33 | 50.53 | 44.83 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:33 | 50.85 | 45.15 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:34 | 51.18 | 45.48 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:34 | 51.51 | 45.81 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:34 | 51.84 | 46.14 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:28:35 | 52.17 | 46.47 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:35 | 52.49 | 46.79 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:28:41 | 52.82 | 47.12 | 29 | 2.91 | 0.38 | 1.6 |
| 4/27/2015 9:28:42 | 53.15 | 47.45 | 142 | 2.68 | 0.35 | 7.8 |
| 4/27/2015 9:28:43 | 53.48 | 47.78 | 234 | 2.51 | 0.36 | 12.8 |
| 4/27/2015 9:28:44 | 53.81 | 48.11 | 428 | 2.72 | 0.36 | 23.4 |
| 4/27/2015 9:28:44 | 54.13 | 48.43 | 473 | 2.61 | 0.36 | 25.9 |
| 4/27/2015 9:28:45 | 54.46 | 48.76 | 520 | 2.50 | 0.37 | 28.5 |
| 4/27/2015 9:28:46 | 54.79 | 49.09 | 497 | 2.61 | 0.37 | 27.2 |
| 4/27/2015 9:28:48 | 55.12 | 49.42 | 175 | 3.71 | 0.39 | 9.6 |
| 4/27/2015 9:28:51 | 55.45 | 49.75 | 127 | 3.96 | 0.39 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:28:54 | 55.77 | 50.07 | 121 | 3.88 | 0.38 | 6.6 |
| 4/27/2015 | 9:28:56 | 56.10 | 50.40 | 156 | 4.73 | 0.39 | 8.5 |
| 4/27/2015 | 9:29:11 | 56.43 | 50.73 | 81 | 2.92 | 0.39 | 4.5 |
| 4/27/2015 | 9:29:16 | 56.76 | 51.06 | 89 | 3.15 | 0.40 | 4.9 |
| 4/27/2015 | 9:29:20 | 57.09 | 51.39 | 64 | 2.86 | 0.40 | 3.5 |
| 4/27/2015 | 9:29:26 | 57.41 | 51.71 | 76 | 3.83 | 0.40 | 4.1 |
| 4/27/2015 | 9:29:31 | 57.74 | 52.04 | 78 | 3.68 | 0.39 | 4.2 |
| 4/27/2015 | 9:29:36 | 58.07 | 52.37 | 64 | 3.64 | 0.40 | 3.5 |
| 4/27/2015 | 9:29:44 | 58.40 | 52.70 | 42 | 2.86 | 0.40 | 2.3 |
| 4/27/2015 | 9:29:50 | 58.69 | 52.99 | 44 | 2.90 | 0.40 | 2.4 |

## H128 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:19:43

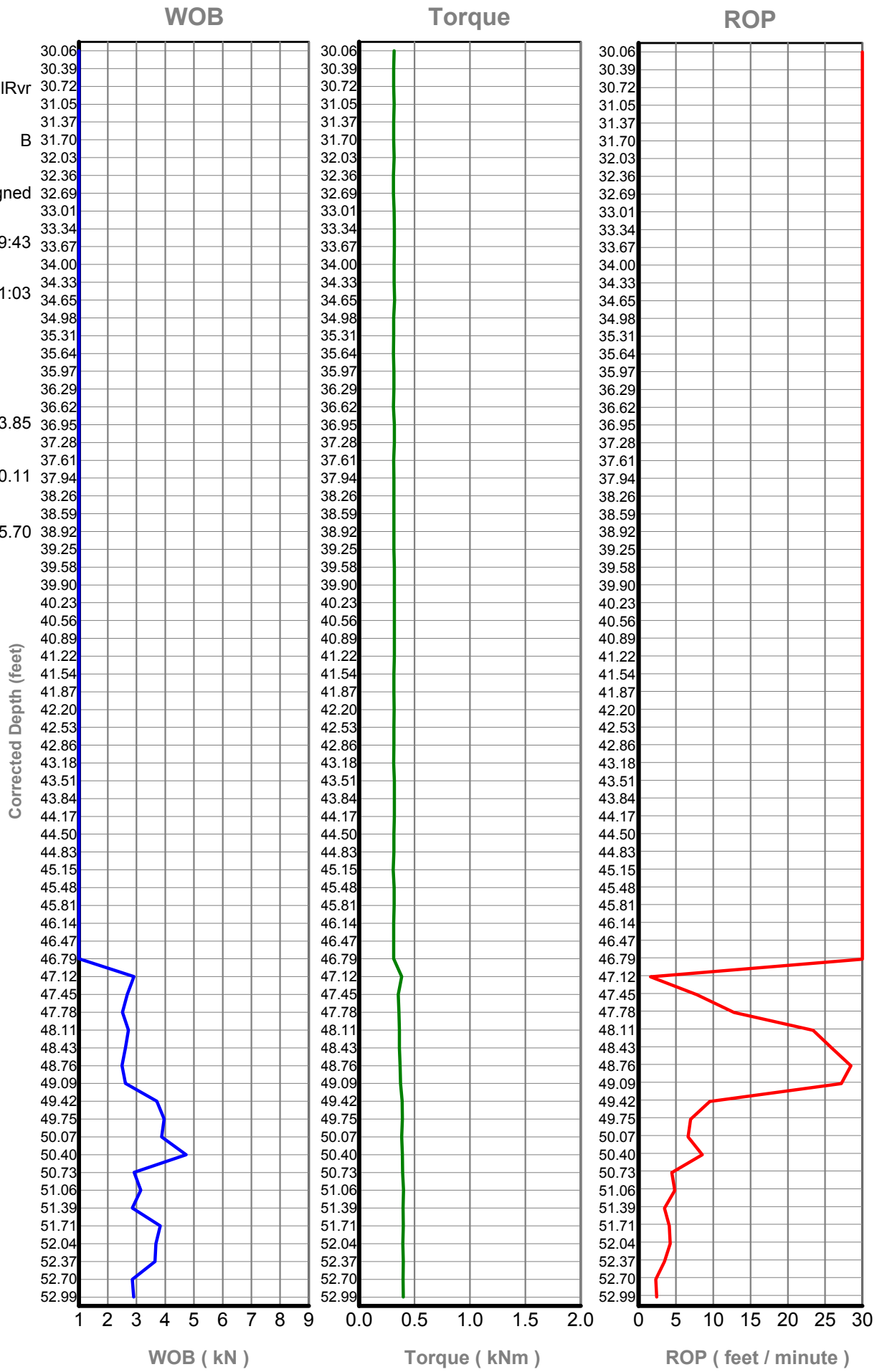
**End Date:**
4/27/2015 9:31:03

**Operator Note:**
'5.7 5.6 b Rock'

**Northing:**
365,473.85

**Easting:**
249,200.11

**Tide (feet):**
5.70



## Hole: H129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:27:59 | 35.76 | 30.26 | 1,146 | 1.72 | 0.30 | 62.6 |
| 4/27/2015 9:28:00 | 36.09 | 30.59 | 1,146 | 1.72 | 0.30 | 62.6 |
| 4/27/2015 9:28:00 | 36.42 | 30.92 | 1,134 | 1.74 | 0.30 | 62.0 |
| 4/27/2015 9:28:00 | 36.75 | 31.25 | 1,099 | 1.73 | 0.30 | 60.1 |
| 4/27/2015 9:28:01 | 37.07 | 31.57 | 1,099 | 1.73 | 0.30 | 60.1 |
| 4/27/2015 9:28:01 | 37.40 | 31.90 | 1,099 | 1.72 | 0.29 | 60.1 |
| 4/27/2015 9:28:02 | 37.73 | 32.23 | 1,099 | 1.72 | 0.29 | 60.1 |
| 4/27/2015 9:28:02 | 38.06 | 32.56 | 1,123 | 1.74 | 0.29 | 61.4 |
| 4/27/2015 9:28:02 | 38.39 | 32.89 | 1,131 | 1.74 | 0.29 | 61.8 |
| 4/27/2015 9:28:03 | 38.71 | 33.21 | 1,131 | 1.74 | 0.29 | 61.8 |
| 4/27/2015 9:28:03 | 39.04 | 33.54 | 1,114 | 1.72 | 0.29 | 60.9 |
| 4/27/2015 9:28:03 | 39.37 | 33.87 | 1,114 | 1.72 | 0.29 | 60.9 |
| 4/27/2015 9:28:03 | 39.70 | 34.20 | 1,113 | 1.72 | 0.29 | 60.9 |
| 4/27/2015 9:28:04 | 40.03 | 34.53 | 1,152 | 1.71 | 0.29 | 63.0 |
| 4/27/2015 9:28:04 | 40.35 | 34.85 | 1,152 | 1.71 | 0.29 | 63.0 |
| 4/27/2015 9:28:04 | 40.68 | 35.18 | 1,128 | 1.72 | 0.29 | 61.7 |
| 4/27/2015 9:28:05 | 41.01 | 35.51 | 1,128 | 1.72 | 0.29 | 61.7 |
| 4/27/2015 9:28:05 | 41.34 | 35.84 | 1,124 | 1.71 | 0.29 | 61.5 |
| 4/27/2015 9:28:05 | 41.67 | 36.17 | 1,134 | 1.74 | 0.29 | 62.0 |
| 4/27/2015 9:28:06 | 41.99 | 36.49 | 1,134 | 1.74 | 0.29 | 62.0 |
| 4/27/2015 9:28:06 | 42.32 | 36.82 | 1,132 | 1.75 | 0.29 | 61.9 |
| 4/27/2015 9:28:06 | 42.65 | 37.15 | 1,132 | 1.75 | 0.29 | 61.9 |
| 4/27/2015 9:28:06 | 42.98 | 37.48 | 1,127 | 1.75 | 0.29 | 61.7 |
| 4/27/2015 9:28:07 | 43.31 | 37.81 | 1,125 | 1.74 | 0.29 | 61.5 |
| 4/27/2015 9:28:07 | 43.64 | 38.14 | 1,125 | 1.74 | 0.29 | 61.5 |
| 4/27/2015 9:28:07 | 43.96 | 38.46 | 1,115 | 1.72 | 0.29 | 61.0 |
| 4/27/2015 9:28:08 | 44.29 | 38.79 | 1,115 | 1.72 | 0.29 | 61.0 |
| 4/27/2015 9:28:08 | 44.62 | 39.12 | 1,112 | 1.73 | 0.29 | 60.8 |
| 4/27/2015 9:28:08 | 44.95 | 39.45 | 1,097 | 1.74 | 0.29 | 60.0 |
| 4/27/2015 9:28:09 | 45.28 | 39.78 | 1,097 | 1.74 | 0.29 | 60.0 |
| 4/27/2015 9:28:09 | 45.60 | 40.10 | 1,097 | 1.73 | 0.29 | 60.0 |
| 4/27/2015 9:28:09 | 45.93 | 40.43 | 1,112 | 1.73 | 0.29 | 60.8 |
| 4/27/2015 9:28:10 | 46.26 | 40.76 | 1,112 | 1.73 | 0.29 | 60.8 |
| 4/27/2015 9:28:10 | 46.59 | 41.09 | 1,115 | 1.73 | 0.29 | 61.0 |
| 4/27/2015 9:28:10 | 46.92 | 41.42 | 1,115 | 1.73 | 0.29 | 61.0 |
| 4/27/2015 9:28:10 | 47.24 | 41.74 | 1,128 | 1.76 | 0.29 | 61.7 |
| 4/27/2015 9:28:11 | 47.57 | 42.07 | 1,121 | 1.76 | 0.29 | 61.3 |
| 4/27/2015 9:28:11 | 47.90 | 42.40 | 1,121 | 1.76 | 0.29 | 61.3 |
| 4/27/2015 9:28:12 | 48.23 | 42.73 | 1,146 | 1.74 | 0.29 | 62.7 |
| 4/27/2015 9:28:12 | 48.56 | 43.06 | 1,146 | 1.74 | 0.29 | 62.7 |
| 4/27/2015 9:28:12 | 48.88 | 43.38 | 1,122 | 1.72 | 0.29 | 61.3 |
| 4/27/2015 9:28:13 | 49.21 | 43.71 | 1,122 | 1.73 | 0.29 | 61.3 |
| 4/27/2015 9:28:13 | 49.54 | 44.04 | 1,122 | 1.73 | 0.29 | 61.3 |
| 4/27/2015 9:28:13 | 49.87 | 44.37 | 1,122 | 1.72 | 0.29 | 61.3 |
| 4/27/2015 9:28:14 | 50.20 | 44.70 | 1,122 | 1.72 | 0.29 | 61.3 |
| 4/27/2015 9:28:31 | 50.53 | 45.03 | 15 | 1.79 | 0.93 | 0.8 |
| 4/27/2015 9:28:31 | 50.85 | 45.35 | 15 | 1.79 | 0.93 | 0.8 |
| 4/27/2015 9:28:31 | 51.18 | 45.68 | 212 | 1.70 | 1.24 | 11.6 |
| 4/27/2015 9:28:33 | 51.51 | 46.01 | 436 | 1.70 | 1.18 | 23.8 |
| 4/27/2015 9:28:34 | 51.84 | 46.34 | 350 | 1.80 | 1.22 | 19.1 |
| 4/27/2015 9:28:36 | 52.17 | 46.67 | 227 | 1.76 | 1.27 | 12.4 |
| 4/27/2015 9:28:40 | 52.49 | 46.99 | 95 | 1.79 | 1.21 | 5.2 |
| 4/27/2015 9:28:44 | 52.82 | 47.32 | 79 | 1.79 | 1.31 | 4.3 |
| 4/27/2015 9:28:49 | 53.15 | 47.65 | 75 | 1.78 | 1.49 | 4.1 |
| 4/27/2015 9:28:54 | 53.48 | 47.98 | 93 | 1.79 | 1.42 | 5.1 |
| 4/27/2015 9:28:59 | 53.81 | 48.31 | 83 | 1.75 | 1.38 | 4.5 |
| 4/27/2015 9:29:03 | 54.13 | 48.63 | 74 | 1.76 | 1.31 | 4.0 |
| 4/27/2015 9:29:08 | 54.46 | 48.96 | 83 | 1.77 | 1.28 | 4.5 |
| 4/27/2015 9:29:11 | 54.79 | 49.29 | 92 | 1.77 | 1.34 | 5.0 |
| 4/27/2015 9:29:12 | 54.87 | 49.37 | 91 | 1.81 | 1.27 | 5.0 |

## H129 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:26:53

**End Date:**
4/27/2015 9:30:36

**Operator Note:**
'5.5 5.6 C Auto Complete'

**Northing:**
365,520.49

**Easting:**
249,258.85

**Tide (feet):**
5.50



## Hole: H13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:28:02 | 31.50 | 30.30 | 1,076 | 0.31 | 0.31 | 58.8 |
| 4/26/2015 13:28:02 | 31.82 | 30.62 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/26/2015 13:28:02 | 32.15 | 30.95 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/26/2015 13:28:03 | 32.48 | 31.28 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/26/2015 13:28:03 | 32.81 | 31.61 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 13:28:03 | 33.14 | 31.94 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 13:28:04 | 33.46 | 32.26 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 13:28:04 | 33.79 | 32.59 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 13:28:04 | 34.12 | 32.92 | 1,046 | 0.30 | 0.31 | 57.2 |
| 4/26/2015 13:28:05 | 34.45 | 33.25 | 1,046 | 0.30 | 0.31 | 57.2 |
| 4/26/2015 13:28:05 | 34.78 | 33.58 | 1,052 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 13:28:05 | 35.11 | 33.91 | 1,052 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 13:28:05 | 35.43 | 34.23 | 1,052 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 13:28:06 | 35.76 | 34.56 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 13:28:06 | 36.09 | 34.89 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 13:28:06 | 36.42 | 35.22 | 1,051 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 13:28:07 | 36.75 | 35.55 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/26/2015 13:28:07 | 37.07 | 35.87 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/26/2015 13:28:07 | 37.40 | 36.20 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 13:28:08 | 37.73 | 36.53 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 13:28:08 | 38.06 | 36.86 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 13:28:08 | 38.39 | 37.19 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/26/2015 13:28:09 | 38.71 | 37.51 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 13:28:09 | 39.04 | 37.84 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 13:28:09 | 39.37 | 38.17 | 1,053 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 13:28:10 | 39.70 | 38.50 | 1,067 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:28:11 | 40.03 | 38.83 | 1,067 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:28:11 | 40.35 | 39.15 | 1,077 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 13:28:11 | 40.68 | 39.48 | 1,077 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 13:28:11 | 41.01 | 39.81 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 13:28:12 | 41.34 | 40.14 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/26/2015 13:28:12 | 41.67 | 40.47 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/26/2015 13:28:12 | 41.99 | 40.79 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/26/2015 13:28:13 | 42.32 | 41.12 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 13:28:13 | 42.65 | 41.45 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 13:28:13 | 42.98 | 41.78 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/26/2015 13:28:14 | 43.31 | 42.11 | 1,058 | 0.29 | 0.36 | 57.9 |
| 4/26/2015 13:28:20 | 43.64 | 42.44 | 0 | 3.31 | 0.36 | 0.0 |
| 4/26/2015 13:28:21 | 43.96 | 42.76 | 94 | 2.30 | 0.33 | 5.1 |
| 4/26/2015 13:28:21 | 44.29 | 43.09 | 238 | 3.05 | 0.36 | 13.0 |
| 4/26/2015 13:28:23 | 44.62 | 43.42 | 349 | 2.86 | 0.40 | 19.1 |
| 4/26/2015 13:28:29 | 44.95 | 43.75 | 63 | 3.56 | 0.39 | 3.5 |
| 4/26/2015 13:28:38 | 45.28 | 44.08 | 0 | 3.59 | 0.38 | 0.0 |
| 4/26/2015 13:28:43 | 45.60 | 44.40 | 78 | 3.90 | 0.39 | 4.3 |
| 4/26/2015 13:28:47 | 45.93 | 44.73 | 92 | 4.08 | 0.38 | 5.0 |
| 4/26/2015 13:28:50 | 46.26 | 45.06 | 91 | 3.84 | 0.39 | 5.0 |
| 4/26/2015 13:28:57 | 46.59 | 45.39 | 49 | 3.08 | 0.39 | 2.7 |
| 4/26/2015 13:29:05 | 46.92 | 45.72 | 46 | 3.10 | 0.39 | 2.5 |
| 4/26/2015 13:29:10 | 47.24 | 46.04 | 66 | 3.76 | 0.39 | 3.6 |
| 4/26/2015 13:29:13 | 47.57 | 46.37 | 168 | 3.26 | 0.39 | 9.2 |
| 4/26/2015 13:29:17 | 47.90 | 46.70 | 72 | 3.28 | 0.40 | 4.0 |
| 4/26/2015 13:29:20 | 48.23 | 47.03 | 121 | 3.35 | 0.40 | 6.6 |
| 4/26/2015 13:29:24 | 48.56 | 47.36 | 87 | 3.67 | 0.39 | 4.7 |
| 4/26/2015 13:29:29 | 48.88 | 47.68 | 77 | 3.00 | 0.40 | 4.2 |
| 4/26/2015 13:29:35 | 49.21 | 48.01 | 64 | 3.40 | 0.39 | 3.5 |
| 4/26/2015 13:29:40 | 49.54 | 48.34 | 66 | 3.09 | 0.39 | 3.6 |
| 4/26/2015 13:29:44 | 49.75 | 48.55 | 55 | 3.37 | 0.39 | 3.0 |

## H13 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:26:09

**End Date:**
4/26/2015 13:30:57

**Operator Note:**
'1.2 1.3 b Auto Complete'

**Northing:**
366,169.34

**Easting:**
249,701.59

**Tide (feet):**
1.20



## Hole: H130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:25:08 | 33.14 | 30.14 | 1,003 | 0.34 | 0.32 | 54.9 |
| 4/27/2015 4:25:08 | 33.46 | 30.46 | 1,001 | 0.32 | 0.32 | 54.7 |
| 4/27/2015 4:25:09 | 33.79 | 30.79 | 1,001 | 0.32 | 0.32 | 54.7 |
| 4/27/2015 4:25:09 | 34.12 | 31.12 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 4:25:09 | 34.45 | 31.45 | 989 | 0.35 | 0.33 | 54.1 |
| 4/27/2015 4:25:10 | 34.78 | 31.78 | 995 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 4:25:10 | 35.11 | 32.11 | 995 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 4:25:10 | 35.43 | 32.43 | 1,004 | 0.34 | 0.32 | 54.9 |
| 4/27/2015 4:25:11 | 35.76 | 32.76 | 1,004 | 0.35 | 0.33 | 54.9 |
| 4/27/2015 4:25:11 | 36.09 | 33.09 | 1,004 | 0.35 | 0.33 | 54.9 |
| 4/27/2015 4:25:11 | 36.42 | 33.42 | 1,001 | 0.34 | 0.32 | 54.7 |
| 4/27/2015 4:25:12 | 36.75 | 33.75 | 1,010 | 0.34 | 0.32 | 55.2 |
| 4/27/2015 4:25:13 | 37.07 | 34.07 | 1,010 | 0.34 | 0.32 | 55.2 |
| 4/27/2015 4:25:13 | 37.40 | 34.40 | 1,003 | 0.34 | 0.32 | 54.8 |
| 4/27/2015 4:25:13 | 37.73 | 34.73 | 992 | 0.35 | 0.33 | 54.2 |
| 4/27/2015 4:25:14 | 38.06 | 35.06 | 992 | 0.35 | 0.33 | 54.2 |
| 4/27/2015 4:25:14 | 38.39 | 35.39 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 4:25:14 | 38.71 | 35.71 | 997 | 0.35 | 0.33 | 54.5 |
| 4/27/2015 4:25:15 | 39.04 | 36.04 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 4:25:15 | 39.37 | 36.37 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 4:25:15 | 39.70 | 36.70 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 4:25:16 | 40.03 | 37.03 | 963 | 0.34 | 0.32 | 52.6 |
| 4/27/2015 4:25:16 | 40.35 | 37.35 | 963 | 0.34 | 0.32 | 52.6 |
| 4/27/2015 4:25:16 | 40.68 | 37.68 | 963 | 0.35 | 0.33 | 52.6 |
| 4/27/2015 4:25:17 | 41.01 | 38.01 | 981 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 4:25:17 | 41.34 | 38.34 | 981 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 4:25:17 | 41.67 | 38.67 | 978 | 0.34 | 0.33 | 53.5 |
| 4/27/2015 4:25:18 | 41.99 | 38.99 | 984 | 0.36 | 0.33 | 53.8 |
| 4/27/2015 4:25:18 | 42.32 | 39.32 | 984 | 0.36 | 0.33 | 53.8 |
| 4/27/2015 4:25:18 | 42.65 | 39.65 | 989 | 0.31 | 0.32 | 54.1 |
| 4/27/2015 4:25:19 | 42.98 | 39.98 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 4:25:19 | 43.31 | 40.31 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 4:25:19 | 43.64 | 40.64 | 991 | 0.34 | 0.33 | 54.2 |
| 4/27/2015 4:25:20 | 43.96 | 40.96 | 1,000 | 0.34 | 0.33 | 54.7 |
| 4/27/2015 4:25:20 | 44.29 | 41.29 | 989 | 0.34 | 0.33 | 54.1 |
| 4/27/2015 4:25:21 | 44.62 | 41.62 | 989 | 0.34 | 0.33 | 54.1 |
| 4/27/2015 4:25:21 | 44.95 | 41.95 | 995 | 0.25 | 0.33 | 54.4 |
| 4/27/2015 4:25:21 | 45.28 | 42.28 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 4:25:22 | 45.60 | 42.60 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 4:25:22 | 45.93 | 42.93 | 992 | 0.34 | 0.32 | 54.3 |
| 4/27/2015 4:25:23 | 46.26 | 43.26 | 986 | 0.33 | 0.33 | 53.9 |
| 4/27/2015 4:25:23 | 46.59 | 43.59 | 986 | 0.33 | 0.33 | 53.9 |
| 4/27/2015 4:25:23 | 46.92 | 43.92 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 4:25:24 | 47.24 | 44.24 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 4:25:24 | 47.57 | 44.57 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 4:25:24 | 47.90 | 44.90 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 4:25:25 | 48.23 | 45.23 | 983 | 0.33 | 0.35 | 53.7 |
| 4/27/2015 4:25:25 | 48.56 | 45.56 | 939 | 0.31 | 0.39 | 51.3 |
| 4/27/2015 4:25:40 | 48.88 | 45.88 | 92 | 3.33 | 0.40 | 5.0 |
| 4/27/2015 4:25:46 | 49.21 | 46.21 | 75 | 4.09 | 0.41 | 4.1 |
| 4/27/2015 4:25:51 | 49.54 | 46.54 | 67 | 3.88 | 0.42 | 3.7 |
| 4/27/2015 4:25:53 | 49.87 | 46.87 | 118 | 3.20 | 0.39 | 6.5 |
| 4/27/2015 4:25:55 | 50.20 | 47.20 | 210 | 4.20 | 0.39 | 11.5 |
| 4/27/2015 4:25:59 | 50.53 | 47.53 | 107 | 3.77 | 0.41 | 5.8 |
| 4/27/2015 4:26:07 | 50.85 | 47.85 | 45 | 3.25 | 0.40 | 2.5 |
| 4/27/2015 4:26:13 | 51.18 | 48.18 | 64 | 3.98 | 0.40 | 3.5 |
| 4/27/2015 4:26:17 | 51.51 | 48.51 | 113 | 4.22 | 0.40 | 6.2 |
| 4/27/2015 4:26:22 | 51.84 | 48.84 | 70 | 3.54 | 0.41 | 3.8 |
| 4/27/2015 4:26:26 | 52.17 | 49.17 | 110 | 3.35 | 0.40 | 6.0 |
| 4/27/2015 4:26:31 | 52.49 | 49.49 | 64 | 3.94 | 0.40 | 3.5 |
| 4/27/2015 4:26:37 | 52.82 | 49.82 | 55 | 3.52 | 0.41 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 4:26:43 | 53.15 | 50.15 | 65 | 3.72 | 0.40 | 3.6 |
| 4/27/2015 | 4:26:49 | 53.48 | 50.48 | 72 | 3.92 | 0.40 | 4.0 |
| 4/27/2015 | 4:26:54 | 53.81 | 50.81 | 55 | 3.69 | 0.40 | 3.0 |
| 4/27/2015 | 4:27:01 | 54.13 | 51.13 | 49 | 3.67 | 0.41 | 2.7 |
| 4/27/2015 | 4:27:09 | 54.46 | 51.46 | 46 | 3.40 | 0.40 | 2.5 |
| 4/27/2015 | 4:27:14 | 54.67 | 51.67 | 40 | 4.01 | 0.41 | 2.2 |

## H130 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:23:17

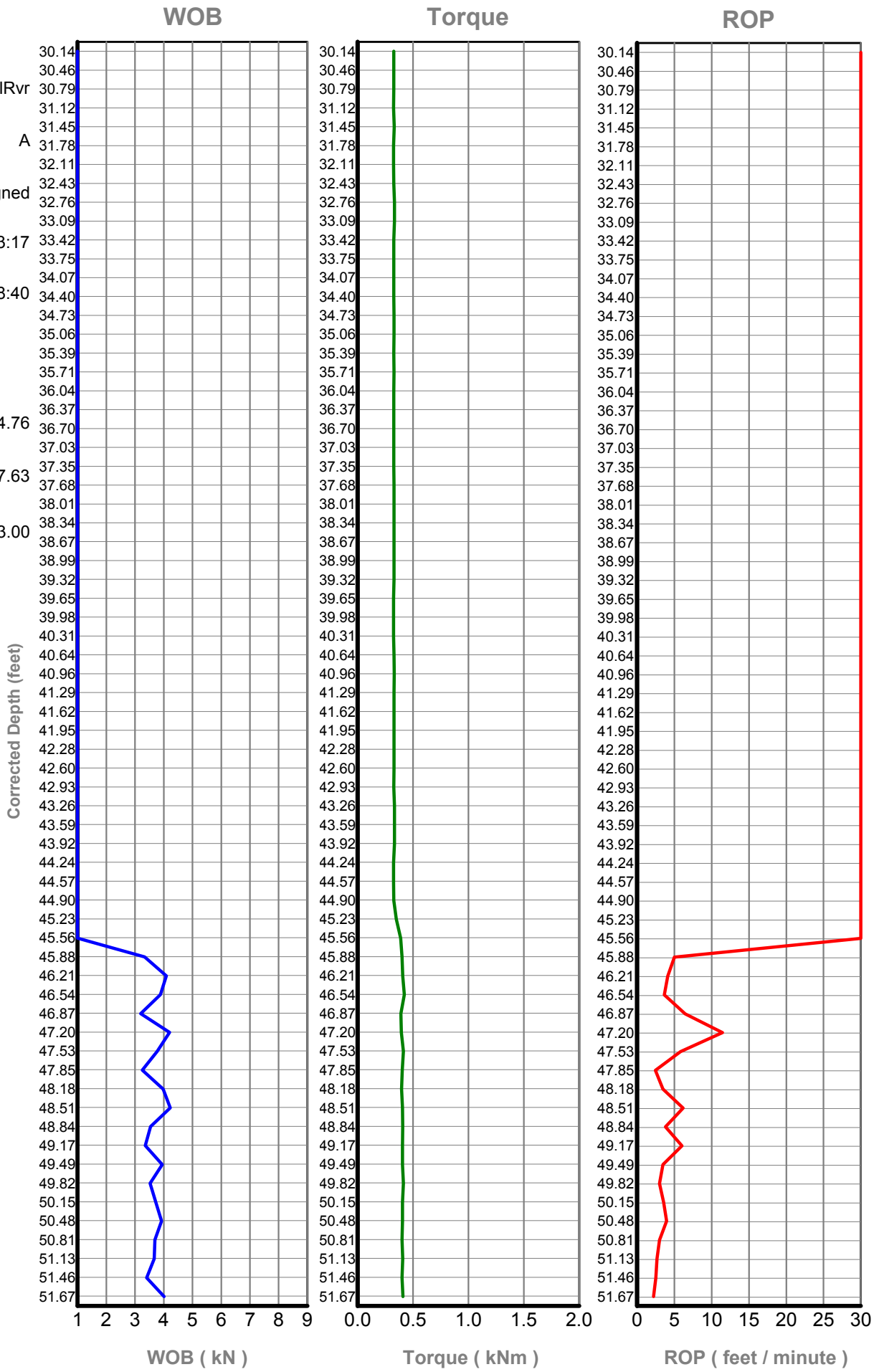
**End Date:**
4/27/2015 4:28:40

**Operator Note:**
'3 2.7 b Auto Complete'

**Northing:**
365,574.76

**Easting:**
249,317.63

**Tide (feet):**
3.00



## Hole: H131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:24:20 | 33.14 | 30.14 | 561 | 1.76 | 0.16 | 30.7 |
| 4/27/2015 4:24:20 | 33.46 | 30.46 | 558 | 1.77 | 0.16 | 30.5 |
| 4/27/2015 4:24:21 | 33.79 | 30.79 | 558 | 1.76 | 0.15 | 30.5 |
| 4/27/2015 4:24:21 | 34.12 | 31.12 | 555 | 1.77 | 0.15 | 30.4 |
| 4/27/2015 4:24:22 | 34.45 | 31.45 | 558 | 1.81 | 0.16 | 30.5 |
| 4/27/2015 4:24:23 | 34.78 | 31.78 | 555 | 1.77 | 0.16 | 30.3 |
| 4/27/2015 4:24:23 | 35.11 | 32.11 | 552 | 1.81 | 0.16 | 30.2 |
| 4/27/2015 4:24:24 | 35.43 | 32.43 | 558 | 1.75 | 0.16 | 30.5 |
| 4/27/2015 4:24:25 | 35.76 | 32.76 | 556 | 1.75 | 0.16 | 30.4 |
| 4/27/2015 4:24:25 | 36.09 | 33.09 | 555 | 1.72 | 0.16 | 30.4 |
| 4/27/2015 4:24:26 | 36.42 | 33.42 | 568 | 1.78 | 0.15 | 31.1 |
| 4/27/2015 4:24:26 | 36.75 | 33.75 | 558 | 1.78 | 0.16 | 30.5 |
| 4/27/2015 4:24:27 | 37.07 | 34.07 | 558 | 1.82 | 0.15 | 30.5 |
| 4/27/2015 4:24:28 | 37.40 | 34.40 | 561 | 1.81 | 0.16 | 30.7 |
| 4/27/2015 4:24:29 | 37.73 | 34.73 | 545 | 1.80 | 0.16 | 29.8 |
| 4/27/2015 4:24:29 | 38.06 | 35.06 | 545 | 1.77 | 0.16 | 29.8 |
| 4/27/2015 4:24:30 | 38.39 | 35.39 | 543 | 1.76 | 0.16 | 29.7 |
| 4/27/2015 4:24:31 | 38.71 | 35.71 | 547 | 1.80 | 0.16 | 29.9 |
| 4/27/2015 4:24:31 | 39.04 | 36.04 | 547 | 1.74 | 0.16 | 29.9 |
| 4/27/2015 4:24:32 | 39.37 | 36.37 | 551 | 1.78 | 0.16 | 30.1 |
| 4/27/2015 4:24:32 | 39.70 | 36.70 | 560 | 1.79 | 0.16 | 30.6 |
| 4/27/2015 4:24:33 | 40.03 | 37.03 | 551 | 1.75 | 0.15 | 30.1 |
| 4/27/2015 4:24:34 | 40.35 | 37.35 | 555 | 1.80 | 0.16 | 30.3 |
| 4/27/2015 4:24:34 | 40.68 | 37.68 | 560 | 1.79 | 0.16 | 30.6 |
| 4/27/2015 4:24:35 | 41.01 | 38.01 | 542 | 1.81 | 0.16 | 29.6 |
| 4/27/2015 4:24:35 | 41.34 | 38.34 | 542 | 1.79 | 0.16 | 29.6 |
| 4/27/2015 4:24:36 | 41.67 | 38.67 | 557 | 1.78 | 0.16 | 30.5 |
| 4/27/2015 4:24:37 | 41.99 | 38.99 | 557 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 4:24:37 | 42.32 | 39.32 | 549 | 1.83 | 0.16 | 30.0 |
| 4/27/2015 4:24:38 | 42.65 | 39.65 | 549 | 1.79 | 0.16 | 30.0 |
| 4/27/2015 4:24:39 | 42.98 | 39.98 | 550 | 1.81 | 0.16 | 30.1 |
| 4/27/2015 4:24:40 | 43.31 | 40.31 | 550 | 1.76 | 0.16 | 30.1 |
| 4/27/2015 4:24:40 | 43.64 | 40.64 | 541 | 1.76 | 0.16 | 29.6 |
| 4/27/2015 4:24:41 | 43.96 | 40.96 | 541 | 1.75 | 0.16 | 29.6 |
| 4/27/2015 4:24:42 | 44.29 | 41.29 | 546 | 1.76 | 0.16 | 29.9 |
| 4/27/2015 4:24:42 | 44.62 | 41.62 | 555 | 1.79 | 0.16 | 30.3 |
| 4/27/2015 4:24:43 | 44.95 | 41.95 | 558 | 1.77 | 0.16 | 30.5 |
| 4/27/2015 4:24:43 | 45.28 | 42.28 | 558 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 4:24:44 | 45.60 | 42.60 | 537 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 4:24:45 | 45.93 | 42.93 | 549 | 1.81 | 0.16 | 30.0 |
| 4/27/2015 4:24:45 | 46.26 | 43.26 | 549 | 1.76 | 0.16 | 30.0 |
| 4/27/2015 4:24:46 | 46.59 | 43.59 | 546 | 1.79 | 0.16 | 29.9 |
| 4/27/2015 4:24:47 | 46.92 | 43.92 | 561 | 1.78 | 0.16 | 30.7 |
| 4/27/2015 4:24:47 | 47.24 | 44.24 | 552 | 1.78 | 0.16 | 30.2 |
| 4/27/2015 4:24:48 | 47.57 | 44.57 | 552 | 1.74 | 0.15 | 30.2 |
| 4/27/2015 4:24:48 | 47.90 | 44.90 | 546 | 1.74 | 0.16 | 29.8 |
| 4/27/2015 4:24:49 | 48.23 | 45.23 | 553 | 1.78 | 0.16 | 30.2 |
| 4/27/2015 4:24:50 | 48.56 | 45.56 | 547 | 1.79 | 0.16 | 29.9 |
| 4/27/2015 4:25:00 | 48.88 | 45.88 | 0 | 1.81 | 1.12 | 0.0 |
| 4/27/2015 4:25:01 | 49.21 | 46.21 | 186 | 1.79 | 1.13 | 10.2 |
| 4/27/2015 4:25:02 | 49.54 | 46.54 | 336 | 1.76 | 1.13 | 18.4 |
| 4/27/2015 4:25:08 | 49.87 | 46.87 | 9 | 1.81 | 1.15 | 0.5 |
| 4/27/2015 4:25:13 | 50.20 | 47.20 | 70 | 1.81 | 1.21 | 3.8 |
| 4/27/2015 4:25:17 | 50.53 | 47.53 | 110 | 1.84 | 1.18 | 6.0 |
| 4/27/2015 4:25:24 | 50.85 | 47.85 | 35 | 1.81 | 1.10 | 1.9 |
| 4/27/2015 4:25:34 | 51.18 | 48.18 | 27 | 1.81 | 1.12 | 1.5 |
| 4/27/2015 4:25:44 | 51.51 | 48.51 | 34 | 1.81 | 1.08 | 1.9 |
| 4/27/2015 4:25:53 | 51.80 | 48.80 | 35 | 1.53 | 1.18 | 1.9 |

## H131 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:22:36

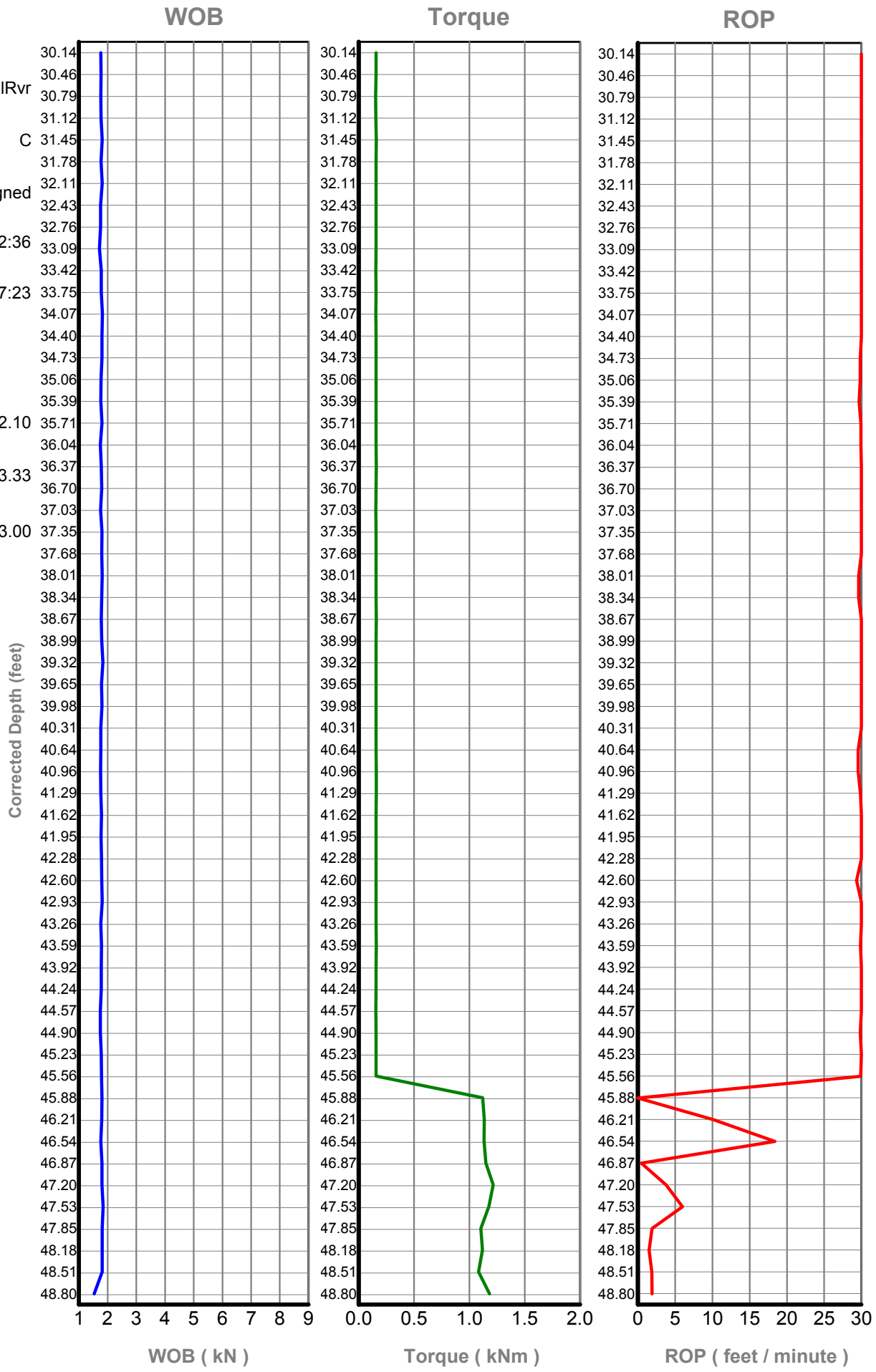
**End Date:**
4/27/2015 4:27:23

**Operator Note:**
'3 2.7 c Auto Complete'

**Northing:**
365,612.10

**Easting:**
249,363.33

**Tide (feet):**
3.00



## Hole: H132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:36:42 | 33.46 | 30.16 | 620 | 1.77 | 0.15 | 33.9 |
| 4/27/2015 4:36:43 | 33.79 | 30.49 | 616 | 1.77 | 0.15 | 33.7 |
| 4/27/2015 4:36:43 | 34.12 | 30.82 | 627 | 1.75 | 0.15 | 34.3 |
| 4/27/2015 4:36:44 | 34.45 | 31.15 | 616 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 4:36:44 | 34.78 | 31.48 | 616 | 1.79 | 0.15 | 33.7 |
| 4/27/2015 4:36:45 | 35.11 | 31.81 | 620 | 1.79 | 0.15 | 33.9 |
| 4/27/2015 4:36:45 | 35.43 | 32.13 | 616 | 1.74 | 0.15 | 33.7 |
| 4/27/2015 4:36:46 | 35.76 | 32.46 | 616 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 4:36:47 | 36.09 | 32.79 | 612 | 1.77 | 0.15 | 33.5 |
| 4/27/2015 4:36:48 | 36.42 | 33.12 | 619 | 1.78 | 0.15 | 33.8 |
| 4/27/2015 4:36:48 | 36.75 | 33.45 | 619 | 1.79 | 0.15 | 33.8 |
| 4/27/2015 4:36:49 | 37.07 | 33.77 | 619 | 1.78 | 0.15 | 33.8 |
| 4/27/2015 4:36:49 | 37.40 | 34.10 | 613 | 1.77 | 0.15 | 33.5 |
| 4/27/2015 4:36:50 | 37.73 | 34.43 | 619 | 1.76 | 0.15 | 33.8 |
| 4/27/2015 4:36:50 | 38.06 | 34.76 | 619 | 1.79 | 0.15 | 33.8 |
| 4/27/2015 4:36:51 | 38.39 | 35.09 | 619 | 1.79 | 0.15 | 33.9 |
| 4/27/2015 4:36:51 | 38.71 | 35.41 | 606 | 1.78 | 0.15 | 33.2 |
| 4/27/2015 4:36:52 | 39.04 | 35.74 | 618 | 1.79 | 0.15 | 33.8 |
| 4/27/2015 4:36:53 | 39.37 | 36.07 | 614 | 1.77 | 0.15 | 33.6 |
| 4/27/2015 4:36:53 | 39.70 | 36.40 | 613 | 1.79 | 0.15 | 33.5 |
| 4/27/2015 4:36:54 | 40.03 | 36.73 | 623 | 1.76 | 0.15 | 34.1 |
| 4/27/2015 4:36:54 | 40.35 | 37.05 | 616 | 1.77 | 0.15 | 33.7 |
| 4/27/2015 4:36:55 | 40.68 | 37.38 | 616 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 4:36:55 | 41.01 | 37.71 | 616 | 1.77 | 0.15 | 33.7 |
| 4/27/2015 4:36:56 | 41.34 | 38.04 | 606 | 1.79 | 0.15 | 33.1 |
| 4/27/2015 4:36:57 | 41.67 | 38.37 | 610 | 1.78 | 0.15 | 33.3 |
| 4/27/2015 4:36:58 | 41.99 | 38.69 | 603 | 1.78 | 0.15 | 33.0 |
| 4/27/2015 4:36:58 | 42.32 | 39.02 | 599 | 1.77 | 0.15 | 32.8 |
| 4/27/2015 4:36:59 | 42.65 | 39.35 | 599 | 1.79 | 0.15 | 32.8 |
| 4/27/2015 4:36:59 | 42.98 | 39.68 | 604 | 1.74 | 0.15 | 33.0 |
| 4/27/2015 4:37:00 | 43.31 | 40.01 | 611 | 1.78 | 0.15 | 33.4 |
| 4/27/2015 4:37:00 | 43.64 | 40.34 | 606 | 1.79 | 0.15 | 33.1 |
| 4/27/2015 4:37:01 | 43.96 | 40.66 | 616 | 1.79 | 0.15 | 33.7 |
| 4/27/2015 4:37:01 | 44.29 | 40.99 | 617 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 4:37:02 | 44.62 | 41.32 | 616 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 4:37:03 | 44.95 | 41.65 | 606 | 1.77 | 0.15 | 33.2 |
| 4/27/2015 4:37:03 | 45.28 | 41.98 | 606 | 1.78 | 0.15 | 33.2 |
| 4/27/2015 4:37:04 | 45.60 | 42.30 | 607 | 1.75 | 0.15 | 33.2 |
| 4/27/2015 4:37:04 | 45.93 | 42.63 | 607 | 1.78 | 0.15 | 33.2 |
| 4/27/2015 4:37:05 | 46.26 | 42.96 | 613 | 1.78 | 0.15 | 33.5 |
| 4/27/2015 4:37:05 | 46.59 | 43.29 | 607 | 1.77 | 0.15 | 33.2 |
| 4/27/2015 4:37:06 | 46.92 | 43.62 | 613 | 1.76 | 0.15 | 33.5 |
| 4/27/2015 4:37:07 | 47.24 | 43.94 | 613 | 1.81 | 0.15 | 33.5 |
| 4/27/2015 4:37:07 | 47.57 | 44.27 | 610 | 1.76 | 0.15 | 33.4 |
| 4/27/2015 4:37:08 | 47.90 | 44.60 | 613 | 1.79 | 0.15 | 33.5 |
| 4/27/2015 4:37:09 | 48.23 | 44.93 | 613 | 1.79 | 0.15 | 33.5 |
| 4/27/2015 4:37:19 | 48.56 | 45.26 | 38 | 1.73 | 1.14 | 2.1 |
| 4/27/2015 4:37:22 | 48.88 | 45.58 | 47 | 1.76 | 1.13 | 2.6 |
| 4/27/2015 4:37:27 | 49.21 | 45.91 | 51 | 1.77 | 1.17 | 2.8 |
| 4/27/2015 4:37:29 | 49.54 | 46.24 | 134 | 1.80 | 1.19 | 7.3 |
| 4/27/2015 4:37:31 | 49.87 | 46.57 | 209 | 1.81 | 1.27 | 11.4 |
| 4/27/2015 4:37:33 | 50.20 | 46.90 | 168 | 1.79 | 1.36 | 9.2 |
| 4/27/2015 4:37:35 | 50.53 | 47.23 | 148 | 1.77 | 1.21 | 8.1 |
| 4/27/2015 4:37:36 | 50.85 | 47.55 | 197 | 1.76 | 1.13 | 10.8 |
| 4/27/2015 4:37:46 | 51.18 | 47.88 | 23 | 1.79 | 1.06 | 1.3 |
| 4/27/2015 4:37:52 | 51.51 | 48.21 | 17 | 1.79 | 1.17 | 0.9 |
| 4/27/2015 4:38:07 | 51.84 | 48.54 | 23 | 1.81 | 1.11 | 1.3 |
| 4/27/2015 4:38:21 | 52.17 | 48.87 | 23 | 1.80 | 1.14 | 1.3 |
| 4/27/2015 4:38:35 | 52.49 | 49.19 | 24 | 1.80 | 1.12 | 1.3 |
| 4/27/2015 4:38:39 | 52.61 | 49.31 | 29 | 1.81 | 1.20 | 1.6 |

## H132 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:35:06

**End Date:**
4/27/2015 4:39:59

**Operator Note:**
'3.3 2.9 c Auto Complete'

**Northing:**
365,659.53

**Easting:**
249,421.42

**Tide (feet):**
3.30



## Hole: H133 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:37:58 | 32.81 | 30.01 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/27/2015 0:37:58 | 33.14 | 30.34 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:37:58 | 33.46 | 30.66 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:37:59 | 33.79 | 30.99 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:37:59 | 34.12 | 31.32 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/27/2015 0:37:59 | 34.45 | 31.65 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/27/2015 0:37:59 | 34.78 | 31.98 | 1,075 | 0.30 | 0.32 | 58.8 |
| 4/27/2015 0:38:00 | 35.11 | 32.31 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:38:00 | 35.43 | 32.63 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:38:00 | 35.76 | 32.96 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/27/2015 0:38:01 | 36.09 | 33.29 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/27/2015 0:38:01 | 36.42 | 33.62 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/27/2015 0:38:01 | 36.75 | 33.95 | 1,073 | 0.30 | 0.31 | 58.7 |
| 4/27/2015 0:38:02 | 37.07 | 34.27 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:38:02 | 37.40 | 34.60 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:38:02 | 37.73 | 34.93 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/27/2015 0:38:03 | 38.06 | 35.26 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:38:03 | 38.39 | 35.59 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:38:03 | 38.71 | 35.91 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:04 | 39.04 | 36.24 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:04 | 39.37 | 36.57 | 1,060 | 0.30 | 0.32 | 58.0 |
| 4/27/2015 0:38:04 | 39.70 | 36.90 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/27/2015 0:38:05 | 40.03 | 37.23 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/27/2015 0:38:05 | 40.35 | 37.55 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/27/2015 0:38:05 | 40.68 | 37.88 | 1,076 | 0.31 | 0.31 | 58.8 |
| 4/27/2015 0:38:06 | 41.01 | 38.21 | 1,076 | 0.31 | 0.31 | 58.8 |
| 4/27/2015 0:38:06 | 41.34 | 38.54 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:38:07 | 41.67 | 38.87 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/27/2015 0:38:07 | 41.99 | 39.19 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/27/2015 0:38:07 | 42.32 | 39.52 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:38:08 | 42.65 | 39.85 | 1,076 | 0.30 | 0.32 | 58.8 |
| 4/27/2015 0:38:08 | 42.98 | 40.18 | 1,076 | 0.30 | 0.32 | 58.8 |
| 4/27/2015 0:38:08 | 43.31 | 40.51 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:09 | 43.64 | 40.84 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:09 | 43.96 | 41.16 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/27/2015 0:38:09 | 44.29 | 41.49 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:38:10 | 44.62 | 41.82 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:38:10 | 44.95 | 42.15 | 1,070 | 0.30 | 0.32 | 58.5 |
| 4/27/2015 0:38:10 | 45.28 | 42.48 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:11 | 45.60 | 42.80 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/27/2015 0:38:11 | 45.93 | 43.13 | 1,067 | 0.30 | 0.31 | 58.4 |
| 4/27/2015 0:38:11 | 46.26 | 43.46 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:38:12 | 46.59 | 43.79 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:38:12 | 46.92 | 44.12 | 1,064 | 0.30 | 0.32 | 58.2 |
| 4/27/2015 0:38:12 | 47.24 | 44.44 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:38:13 | 47.57 | 44.77 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:38:13 | 47.90 | 45.10 | 1,055 | 0.29 | 0.34 | 57.7 |
| 4/27/2015 0:38:13 | 48.23 | 45.43 | 1,009 | 0.27 | 0.38 | 55.2 |
| 4/27/2015 0:38:30 | 48.56 | 45.76 | 59 | 3.69 | 0.40 | 3.2 |
| 4/27/2015 0:38:37 | 48.88 | 46.08 | 40 | 3.10 | 0.39 | 2.2 |
| 4/27/2015 0:38:45 | 49.21 | 46.41 | 46 | 3.09 | 0.40 | 2.5 |
| 4/27/2015 0:38:53 | 49.54 | 46.74 | 47 | 3.37 | 0.39 | 2.6 |
| 4/27/2015 0:38:57 | 49.81 | 47.01 | 75 | 4.00 | 0.41 | 4.1 |

## H133 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:35:57

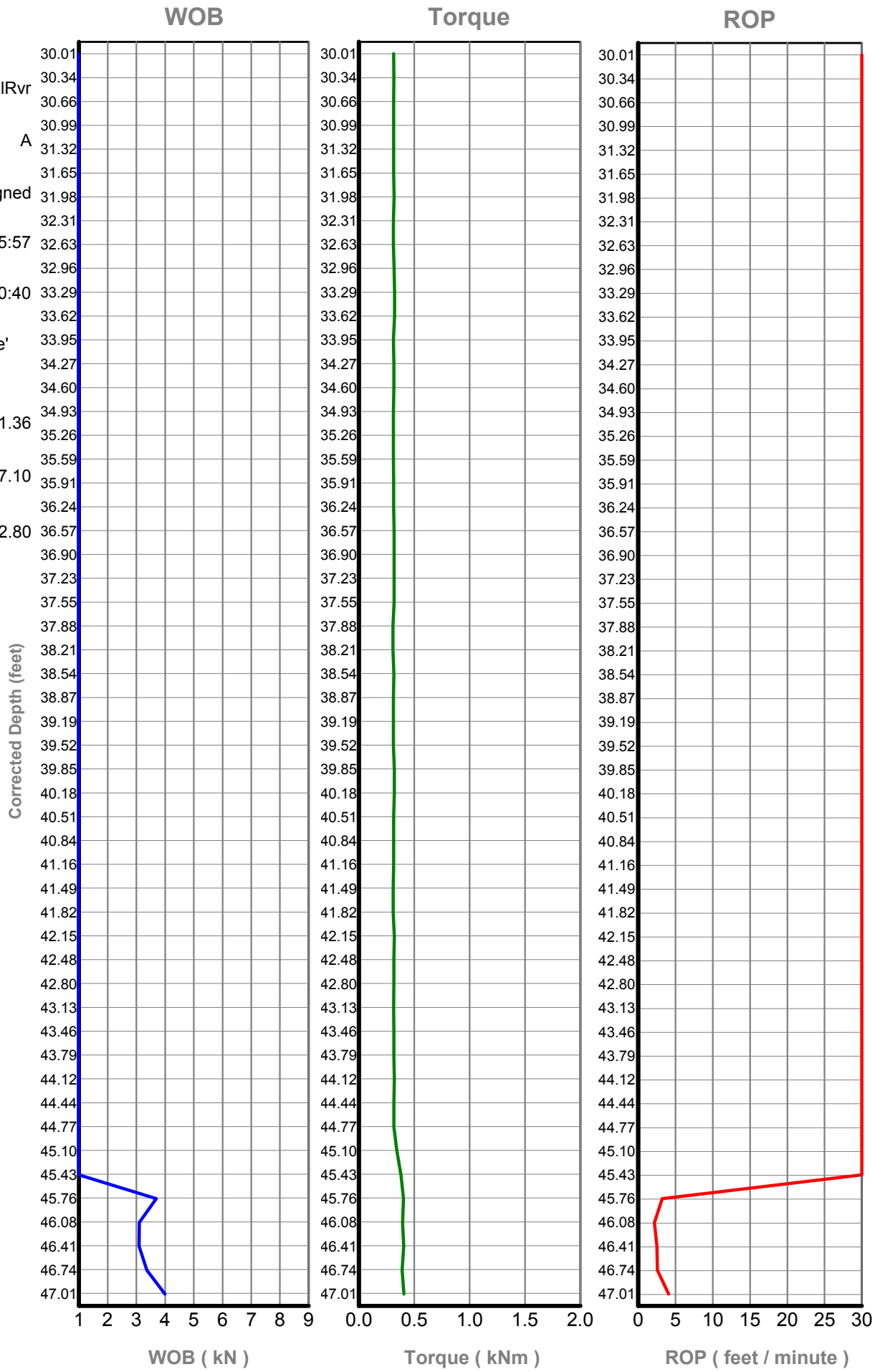
**End Date:**
4/27/2015 0:40:40

**Operator Note:**
'2.8 2.9 b Auto Complete'

**Northing:**
365,711.36

**Easting:**
249,497.10

**Tide (feet):**
2.80



## Hole: H134 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:31:42 | 33.14 | 30.24 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:31:43 | 33.46 | 30.56 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:31:43 | 33.79 | 30.89 | 1,040 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:31:43 | 34.12 | 31.22 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/27/2015 0:31:44 | 34.45 | 31.55 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/27/2015 0:31:44 | 34.78 | 31.88 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/27/2015 0:31:44 | 35.11 | 32.21 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:31:45 | 35.43 | 32.53 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:31:45 | 35.76 | 32.86 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/27/2015 0:31:45 | 36.09 | 33.19 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 0:31:46 | 36.42 | 33.52 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 0:31:46 | 36.75 | 33.85 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/27/2015 0:31:46 | 37.07 | 34.17 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/27/2015 0:31:47 | 37.40 | 34.50 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/27/2015 0:31:47 | 37.73 | 34.83 | 1,040 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 0:31:47 | 38.06 | 35.16 | 1,040 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 0:31:47 | 38.39 | 35.49 | 1,052 | 0.28 | 0.31 | 57.5 |
| 4/27/2015 0:31:48 | 38.71 | 35.81 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/27/2015 0:31:48 | 39.04 | 36.14 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/27/2015 0:31:48 | 39.37 | 36.47 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/27/2015 0:31:49 | 39.70 | 36.80 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:31:49 | 40.03 | 37.13 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:31:49 | 40.35 | 37.45 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:31:50 | 40.68 | 37.78 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/27/2015 0:31:50 | 41.01 | 38.11 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/27/2015 0:31:50 | 41.34 | 38.44 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/27/2015 0:31:51 | 41.67 | 38.77 | 1,049 | 0.30 | 0.32 | 57.3 |
| 4/27/2015 0:31:52 | 41.99 | 39.09 | 1,049 | 0.30 | 0.32 | 57.3 |
| 4/27/2015 0:31:52 | 42.32 | 39.42 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:31:52 | 42.65 | 39.75 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/27/2015 0:31:53 | 42.98 | 40.08 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/27/2015 0:31:53 | 43.31 | 40.41 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:31:53 | 43.64 | 40.74 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/27/2015 0:31:53 | 43.96 | 41.06 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/27/2015 0:31:54 | 44.29 | 41.39 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/27/2015 0:31:54 | 44.62 | 41.72 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/27/2015 0:31:54 | 44.95 | 42.05 | 1,032 | 0.30 | 0.32 | 56.5 |
| 4/27/2015 0:31:55 | 45.28 | 42.38 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/27/2015 0:31:55 | 45.60 | 42.70 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/27/2015 0:31:55 | 45.93 | 43.03 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/27/2015 0:31:56 | 46.26 | 43.36 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/27/2015 0:31:56 | 46.59 | 43.69 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/27/2015 0:31:56 | 46.92 | 44.02 | 1,046 | 0.30 | 0.31 | 57.2 |
| 4/27/2015 0:31:57 | 47.24 | 44.34 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:31:57 | 47.57 | 44.67 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:31:57 | 47.90 | 45.00 | 1,051 | 0.30 | 0.31 | 57.5 |
| 4/27/2015 0:31:58 | 48.23 | 45.33 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/27/2015 0:31:58 | 48.56 | 45.66 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/27/2015 0:31:58 | 48.88 | 45.98 | 1,039 | 0.30 | 0.31 | 56.8 |
| 4/27/2015 0:31:59 | 49.21 | 46.31 | 1,030 | 0.29 | 0.36 | 56.3 |
| 4/27/2015 0:32:12 | 49.54 | 46.64 | 0 | 5.02 | 0.38 | 0.0 |
| 4/27/2015 0:32:14 | 49.87 | 46.97 | 158 | 4.50 | 0.40 | 8.6 |
| 4/27/2015 0:32:18 | 50.20 | 47.30 | 60 | 3.83 | 0.38 | 3.3 |
| 4/27/2015 0:32:20 | 50.53 | 47.63 | 155 | 3.43 | 0.38 | 8.5 |
| 4/27/2015 0:32:21 | 50.85 | 47.95 | 237 | 3.56 | 0.39 | 13.0 |
| 4/27/2015 0:32:24 | 51.18 | 48.28 | 170 | 3.77 | 0.38 | 9.3 |
| 4/27/2015 0:32:27 | 51.51 | 48.61 | 93 | 3.23 | 0.40 | 5.1 |
| 4/27/2015 0:32:37 | 51.84 | 48.94 | 35 | 2.79 | 0.39 | 1.9 |
| 4/27/2015 0:32:47 | 52.17 | 49.27 | 37 | 2.74 | 0.40 | 2.0 |
| 4/27/2015 0:32:56 | 52.49 | 49.59 | 40 | 3.07 | 0.40 | 2.2 |
| 4/27/2015 0:33:05 | 52.80 | 49.90 | 37 | 3.98 | 0.40 | 2.0 |

## H134 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:29:00

**End Date:**
4/27/2015 0:35:52

**Operator Note:**
'2.9 3 b Auto Complete'

**Northing:**
365,748.96

**Easting:**
249,542.50

**Tide (feet):**
2.90



## Hole: H135 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:32:25 | 33.14 | 30.24 | 536 | 1.78 | 0.16 | 29.3 |
| 4/27/2015 0:32:25 | 33.46 | 30.56 | 536 | 1.79 | 0.16 | 29.3 |
| 4/27/2015 0:32:26 | 33.79 | 30.89 | 523 | 1.77 | 0.16 | 28.6 |
| 4/27/2015 0:32:27 | 34.12 | 31.22 | 523 | 1.79 | 0.16 | 28.6 |
| 4/27/2015 0:32:27 | 34.45 | 31.55 | 523 | 1.80 | 0.16 | 28.6 |
| 4/27/2015 0:32:28 | 34.78 | 31.88 | 526 | 1.76 | 0.16 | 28.8 |
| 4/27/2015 0:32:29 | 35.11 | 32.21 | 526 | 1.76 | 0.16 | 28.8 |
| 4/27/2015 0:32:29 | 35.43 | 32.53 | 535 | 1.77 | 0.16 | 29.3 |
| 4/27/2015 0:32:30 | 35.76 | 32.86 | 532 | 1.77 | 0.16 | 29.1 |
| 4/27/2015 0:32:31 | 36.09 | 33.19 | 527 | 1.77 | 0.16 | 28.8 |
| 4/27/2015 0:32:32 | 36.42 | 33.52 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 0:32:32 | 36.75 | 33.85 | 535 | 1.78 | 0.16 | 29.2 |
| 4/27/2015 0:32:33 | 37.07 | 34.17 | 532 | 1.76 | 0.16 | 29.1 |
| 4/27/2015 0:32:34 | 37.40 | 34.50 | 526 | 1.76 | 0.16 | 28.7 |
| 4/27/2015 0:32:34 | 37.73 | 34.83 | 526 | 1.77 | 0.16 | 28.7 |
| 4/27/2015 0:32:35 | 38.06 | 35.16 | 531 | 1.78 | 0.16 | 29.0 |
| 4/27/2015 0:32:36 | 38.39 | 35.49 | 521 | 1.71 | 0.16 | 28.5 |
| 4/27/2015 0:32:36 | 38.71 | 35.81 | 521 | 1.77 | 0.16 | 28.5 |
| 4/27/2015 0:32:37 | 39.04 | 36.14 | 526 | 1.76 | 0.16 | 28.8 |
| 4/27/2015 0:32:38 | 39.37 | 36.47 | 528 | 1.77 | 0.16 | 28.9 |
| 4/27/2015 0:32:38 | 39.70 | 36.80 | 537 | 1.76 | 0.16 | 29.3 |
| 4/27/2015 0:32:39 | 40.03 | 37.13 | 537 | 1.77 | 0.16 | 29.4 |
| 4/27/2015 0:32:39 | 40.35 | 37.45 | 532 | 1.81 | 0.16 | 29.1 |
| 4/27/2015 0:32:40 | 40.68 | 37.78 | 529 | 1.76 | 0.16 | 28.9 |
| 4/27/2015 0:32:41 | 41.01 | 38.11 | 529 | 1.76 | 0.16 | 28.9 |
| 4/27/2015 0:32:42 | 41.34 | 38.44 | 520 | 1.77 | 0.16 | 28.4 |
| 4/27/2015 0:32:43 | 41.67 | 38.77 | 530 | 1.72 | 0.16 | 29.0 |
| 4/27/2015 0:32:43 | 41.99 | 39.09 | 533 | 1.78 | 0.16 | 29.1 |
| 4/27/2015 0:32:44 | 42.32 | 39.42 | 529 | 1.77 | 0.16 | 29.0 |
| 4/27/2015 0:32:44 | 42.65 | 39.75 | 538 | 1.77 | 0.16 | 29.4 |
| 4/27/2015 0:32:45 | 42.98 | 40.08 | 532 | 1.79 | 0.16 | 29.1 |
| 4/27/2015 0:32:46 | 43.31 | 40.41 | 529 | 1.78 | 0.16 | 28.9 |
| 4/27/2015 0:32:46 | 43.64 | 40.74 | 526 | 1.79 | 0.16 | 28.8 |
| 4/27/2015 0:32:47 | 43.96 | 41.06 | 526 | 1.77 | 0.16 | 28.8 |
| 4/27/2015 0:32:48 | 44.29 | 41.39 | 523 | 1.76 | 0.16 | 28.6 |
| 4/27/2015 0:32:48 | 44.62 | 41.72 | 526 | 1.76 | 0.16 | 28.8 |
| 4/27/2015 0:32:49 | 44.95 | 42.05 | 532 | 1.77 | 0.16 | 29.1 |
| 4/27/2015 0:32:50 | 45.28 | 42.38 | 529 | 1.76 | 0.16 | 28.9 |
| 4/27/2015 0:32:50 | 45.60 | 42.70 | 526 | 1.78 | 0.16 | 28.8 |
| 4/27/2015 0:32:51 | 45.93 | 43.03 | 526 | 1.79 | 0.16 | 28.8 |
| 4/27/2015 0:32:52 | 46.26 | 43.36 | 523 | 1.76 | 0.16 | 28.6 |
| 4/27/2015 0:32:53 | 46.59 | 43.69 | 526 | 1.79 | 0.16 | 28.8 |
| 4/27/2015 0:32:53 | 46.92 | 44.02 | 526 | 1.78 | 0.15 | 28.8 |
| 4/27/2015 0:32:54 | 47.24 | 44.34 | 526 | 1.79 | 0.16 | 28.8 |
| 4/27/2015 0:32:55 | 47.57 | 44.67 | 516 | 1.79 | 0.16 | 28.2 |
| 4/27/2015 0:32:55 | 47.90 | 45.00 | 516 | 1.78 | 0.16 | 28.2 |
| 4/27/2015 0:33:10 | 48.23 | 45.33 | 10 | 1.62 | 1.20 | 0.6 |
| 4/27/2015 0:33:13 | 48.56 | 45.66 | 97 | 1.76 | 1.21 | 5.3 |
| 4/27/2015 0:33:16 | 48.88 | 45.98 | 116 | 1.77 | 1.25 | 6.3 |
| 4/27/2015 0:33:20 | 49.21 | 46.31 | 92 | 1.77 | 1.15 | 5.1 |
| 4/27/2015 0:33:24 | 49.54 | 46.64 | 98 | 1.77 | 1.20 | 5.3 |
| 4/27/2015 0:33:27 | 49.87 | 46.97 | 113 | 1.75 | 1.19 | 6.2 |
| 4/27/2015 0:33:30 | 50.20 | 47.30 | 113 | 1.78 | 1.16 | 6.2 |
| 4/27/2015 0:33:33 | 50.53 | 47.63 | 133 | 1.77 | 1.22 | 7.3 |
| 4/27/2015 0:33:36 | 50.85 | 47.95 | 139 | 1.76 | 1.20 | 7.6 |
| 4/27/2015 0:33:38 | 51.18 | 48.28 | 148 | 1.78 | 1.14 | 8.1 |
| 4/27/2015 0:33:45 | 51.51 | 48.61 | 41 | 1.79 | 1.17 | 2.2 |
| 4/27/2015 0:33:56 | 51.84 | 48.94 | 32 | 1.80 | 1.04 | 1.8 |
| 4/27/2015 0:34:08 | 52.17 | 49.27 | 32 | 1.77 | 1.03 | 1.7 |
| 4/27/2015 0:34:17 | 52.38 | 49.48 | 25 | 1.81 | 1.15 | 1.4 |

## H135 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:30:50

**End Date:**
4/27/2015 0:35:25

**Operator Note:**
'2.9 3.0 c Auto Complete'

**Northing:**
365,796.40

**Easting:**
249,600.00

**Tide (feet):**
2.90



## Hole: H136 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:53:30 | 35.76 | 30.26 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/26/2015 21:53:30 | 36.09 | 30.59 | 1,038 | 0.32 | 0.32 | 56.7 |
| 4/26/2015 21:53:30 | 36.42 | 30.92 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 21:53:31 | 36.75 | 31.25 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 21:53:31 | 37.07 | 31.57 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:31 | 37.40 | 31.90 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 21:53:32 | 37.73 | 32.23 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 21:53:32 | 38.06 | 32.56 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/26/2015 21:53:32 | 38.39 | 32.89 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 21:53:33 | 38.71 | 33.21 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 21:53:33 | 39.04 | 33.54 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:33 | 39.37 | 33.87 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 21:53:34 | 39.70 | 34.20 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 21:53:34 | 40.03 | 34.53 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/26/2015 21:53:34 | 40.35 | 34.85 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/26/2015 21:53:35 | 40.68 | 35.18 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/26/2015 21:53:35 | 41.01 | 35.51 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 21:53:35 | 41.34 | 35.84 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:36 | 41.67 | 36.17 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:36 | 41.99 | 36.49 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 21:53:36 | 42.32 | 36.82 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:37 | 42.65 | 37.15 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 21:53:37 | 42.98 | 37.48 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 21:53:37 | 43.31 | 37.81 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/26/2015 21:53:38 | 43.64 | 38.14 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/26/2015 21:53:38 | 43.96 | 38.46 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 21:53:39 | 44.29 | 38.79 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 21:53:39 | 44.62 | 39.12 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 21:53:39 | 44.95 | 39.45 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 21:53:40 | 45.28 | 39.78 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/26/2015 21:53:40 | 45.60 | 40.10 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/26/2015 21:53:40 | 45.93 | 40.43 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/26/2015 21:53:41 | 46.26 | 40.76 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 21:53:41 | 46.59 | 41.09 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 21:53:41 | 46.92 | 41.42 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 21:53:42 | 47.24 | 41.74 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 21:53:42 | 47.57 | 42.07 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 21:53:42 | 47.90 | 42.40 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 21:53:43 | 48.23 | 42.73 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/26/2015 21:53:43 | 48.56 | 43.06 | 1,001 | 0.32 | 0.32 | 54.8 |
| 4/26/2015 21:53:44 | 48.88 | 43.38 | 1,001 | 0.32 | 0.32 | 54.8 |
| 4/26/2015 21:53:44 | 49.21 | 43.71 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/26/2015 21:53:44 | 49.54 | 44.04 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 21:53:45 | 49.87 | 44.37 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 21:53:45 | 50.20 | 44.70 | 1,016 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 21:53:45 | 50.53 | 45.03 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 21:53:46 | 50.85 | 45.35 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 21:53:46 | 51.18 | 45.68 | 1,006 | 0.37 | 0.32 | 55.0 |
| 4/26/2015 21:53:46 | 51.51 | 46.01 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/26/2015 21:53:47 | 51.84 | 46.34 | 1,015 | 0.31 | 0.33 | 55.5 |
| 4/26/2015 21:53:52 | 52.17 | 46.67 | 0 | 4.16 | 0.37 | 0.0 |
| 4/26/2015 21:53:57 | 52.49 | 46.99 | 78 | 4.39 | 0.39 | 4.3 |
| 4/26/2015 21:54:01 | 52.82 | 47.32 | 104 | 4.26 | 0.39 | 5.7 |
| 4/26/2015 21:54:02 | 53.15 | 47.65 | 231 | 3.80 | 0.38 | 12.6 |
| 4/26/2015 21:54:04 | 53.48 | 47.98 | 228 | 4.01 | 0.39 | 12.5 |
| 4/26/2015 21:54:14 | 53.81 | 48.31 | 64 | 4.02 | 0.39 | 3.5 |
| 4/26/2015 21:54:18 | 54.13 | 48.63 | 72 | 4.09 | 0.40 | 4.0 |
| 4/26/2015 21:54:23 | 54.46 | 48.96 | 78 | 3.81 | 0.40 | 4.3 |
| 4/26/2015 21:54:26 | 54.79 | 49.29 | 95 | 4.24 | 0.39 | 5.2 |
| 4/26/2015 21:54:30 | 55.12 | 49.62 | 99 | 3.90 | 0.39 | 5.4 |
| 4/26/2015 21:54:33 | 55.45 | 49.95 | 110 | 3.38 | 0.40 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 21:54:37 | 55.77 | 50.27 | 76 | 4.00 | 0.39 | 4.1 |
| 4/26/2015 | 21:54:41 | 56.10 | 50.60 | 97 | 3.54 | 0.39 | 5.3 |
| 4/26/2015 | 21:54:45 | 56.43 | 50.93 | 86 | 3.83 | 0.39 | 4.7 |
| 4/26/2015 | 21:54:49 | 56.76 | 51.26 | 92 | 3.83 | 0.39 | 5.0 |
| 4/26/2015 | 21:54:54 | 57.09 | 51.59 | 59 | 4.36 | 0.38 | 3.3 |
| 4/26/2015 | 21:55:01 | 57.41 | 51.91 | 51 | 3.69 | 0.40 | 2.8 |
| 4/26/2015 | 21:55:06 | 57.74 | 52.24 | 67 | 3.64 | 0.40 | 3.7 |
| 4/26/2015 | 21:55:10 | 58.07 | 52.57 | 79 | 3.33 | 0.40 | 4.3 |
| 4/26/2015 | 21:55:15 | 58.40 | 52.90 | 83 | 3.30 | 0.39 | 4.6 |
| 4/26/2015 | 21:55:19 | 58.73 | 53.23 | 87 | 4.10 | 0.40 | 4.7 |
| 4/26/2015 | 21:55:25 | 59.06 | 53.56 | 63 | 3.47 | 0.39 | 3.5 |
| 4/26/2015 | 21:55:31 | 59.38 | 53.88 | 49 | 3.23 | 0.40 | 2.7 |
| 4/26/2015 | 21:55:40 | 59.71 | 54.21 | 40 | 3.20 | 0.40 | 2.2 |
| 4/26/2015 | 21:55:45 | 59.89 | 54.39 | 37 | 3.09 | 0.40 | 2.0 |

## H136 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:51:29

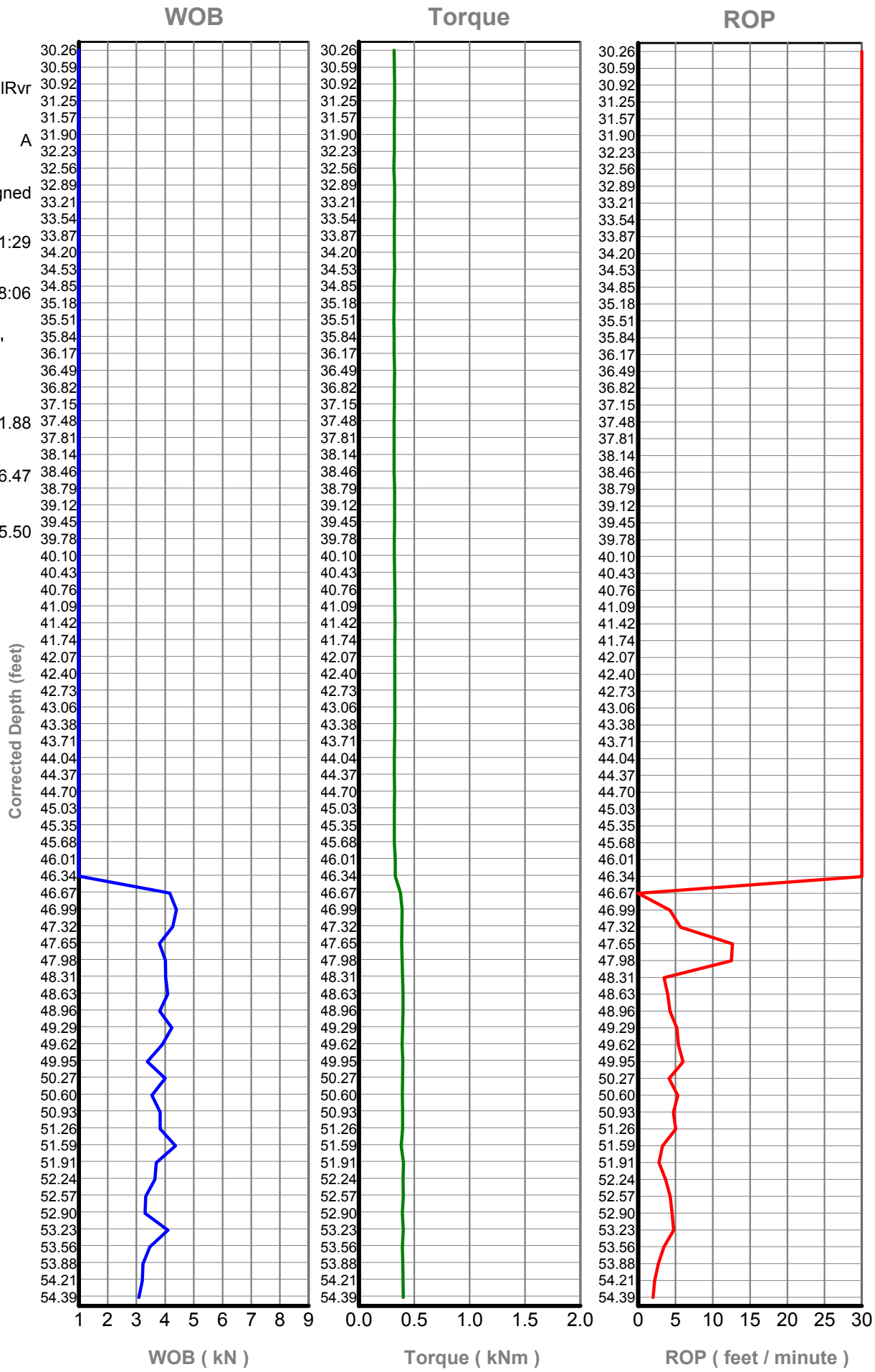
**End Date:**
4/26/2015 21:58:06

**Operator Note:**
'5.5 5.6b Auto Complete'

**Northing:**
365,851.88

**Easting:**
249,666.47

**Tide (feet):**
5.50



## Hole: H137 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:53:00 | 35.76 | 30.26 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 21:53:01 | 36.09 | 30.59 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 21:53:01 | 36.42 | 30.92 | 552 | 1.75 | 0.16 | 30.2 |
| 4/26/2015 21:53:02 | 36.75 | 31.25 | 552 | 1.75 | 0.16 | 30.2 |
| 4/26/2015 21:53:03 | 37.07 | 31.57 | 549 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 21:53:03 | 37.40 | 31.90 | 552 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 21:53:04 | 37.73 | 32.23 | 555 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 21:53:04 | 38.06 | 32.56 | 555 | 1.78 | 0.16 | 30.4 |
| 4/26/2015 21:53:05 | 38.39 | 32.89 | 555 | 1.78 | 0.16 | 30.4 |
| 4/26/2015 21:53:06 | 38.71 | 33.21 | 558 | 1.80 | 0.16 | 30.5 |
| 4/26/2015 21:53:06 | 39.04 | 33.54 | 544 | 1.77 | 0.16 | 29.7 |
| 4/26/2015 21:53:07 | 39.37 | 33.87 | 544 | 1.79 | 0.16 | 29.7 |
| 4/26/2015 21:53:09 | 39.70 | 34.20 | 549 | 1.76 | 0.16 | 30.0 |
| 4/26/2015 21:53:10 | 40.03 | 34.53 | 549 | 1.76 | 0.16 | 30.0 |
| 4/26/2015 21:53:09 | 40.35 | 34.85 | 551 | 1.79 | 0.16 | 30.1 |
| 4/26/2015 21:53:10 | 40.68 | 35.18 | 541 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 21:53:11 | 41.01 | 35.51 | 557 | 1.76 | 0.16 | 30.5 |
| 4/26/2015 21:53:11 | 41.34 | 35.84 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 21:53:12 | 41.67 | 36.17 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 21:53:12 | 41.99 | 36.49 | 550 | 1.75 | 0.16 | 30.1 |
| 4/26/2015 21:53:13 | 42.32 | 36.82 | 555 | 1.76 | 0.16 | 30.3 |
| 4/26/2015 21:53:14 | 42.65 | 37.15 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 21:53:14 | 42.98 | 37.48 | 552 | 2.01 | 0.16 | 30.2 |
| 4/26/2015 21:53:15 | 43.31 | 37.81 | 552 | 1.74 | 0.16 | 30.2 |
| 4/26/2015 21:53:16 | 43.64 | 38.14 | 549 | 1.76 | 0.16 | 30.0 |
| 4/26/2015 21:53:16 | 43.96 | 38.46 | 549 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 21:53:17 | 44.29 | 38.79 | 549 | 1.77 | 0.16 | 30.0 |
| 4/26/2015 21:53:17 | 44.62 | 39.12 | 540 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 21:53:19 | 44.95 | 39.45 | 542 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 21:53:19 | 45.28 | 39.78 | 545 | 1.76 | 0.16 | 29.8 |
| 4/26/2015 21:53:20 | 45.60 | 40.10 | 549 | 1.73 | 0.16 | 30.0 |
| 4/26/2015 21:53:20 | 45.93 | 40.43 | 539 | 1.76 | 0.16 | 29.5 |
| 4/26/2015 21:53:21 | 46.26 | 40.76 | 542 | 1.77 | 0.16 | 29.7 |
| 4/26/2015 21:53:22 | 46.59 | 41.09 | 537 | 1.76 | 0.16 | 29.4 |
| 4/26/2015 21:53:22 | 46.92 | 41.42 | 537 | 1.76 | 0.16 | 29.4 |
| 4/26/2015 21:53:23 | 47.24 | 41.74 | 542 | 1.74 | 0.16 | 29.7 |
| 4/26/2015 21:53:24 | 47.57 | 42.07 | 533 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 21:53:24 | 47.90 | 42.40 | 542 | 1.76 | 0.16 | 29.7 |
| 4/26/2015 21:53:25 | 48.23 | 42.73 | 552 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 21:53:25 | 48.56 | 43.06 | 548 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 21:53:26 | 48.88 | 43.38 | 540 | 1.79 | 0.16 | 29.5 |
| 4/26/2015 21:53:27 | 49.21 | 43.71 | 553 | 1.80 | 0.16 | 30.2 |
| 4/26/2015 21:53:27 | 49.54 | 44.04 | 547 | 1.76 | 0.17 | 29.9 |
| 4/26/2015 21:53:28 | 49.87 | 44.37 | 543 | 1.80 | 0.16 | 29.7 |
| 4/26/2015 21:53:29 | 50.20 | 44.70 | 543 | 1.79 | 0.16 | 29.7 |
| 4/26/2015 21:53:30 | 50.53 | 45.03 | 552 | 1.81 | 0.16 | 30.2 |
| 4/26/2015 21:53:30 | 50.85 | 45.35 | 536 | 1.73 | 0.16 | 29.3 |
| 4/26/2015 21:53:44 | 51.18 | 45.68 | 69 | 1.80 | 1.55 | 3.8 |
| 4/26/2015 21:53:47 | 51.51 | 46.01 | 127 | 1.78 | 1.24 | 7.0 |
| 4/26/2015 21:53:50 | 51.84 | 46.34 | 107 | 1.78 | 1.25 | 5.9 |
| 4/26/2015 21:53:53 | 52.17 | 46.67 | 110 | 1.77 | 1.23 | 6.0 |
| 4/26/2015 21:53:56 | 52.49 | 46.99 | 123 | 1.79 | 1.22 | 6.7 |
| 4/26/2015 21:53:59 | 52.82 | 47.32 | 127 | 1.76 | 1.21 | 7.0 |
| 4/26/2015 21:54:02 | 53.15 | 47.65 | 158 | 1.74 | 1.16 | 8.7 |
| 4/26/2015 21:54:04 | 53.48 | 47.98 | 162 | 1.78 | 1.22 | 8.9 |
| 4/26/2015 21:54:07 | 53.81 | 48.31 | 110 | 1.76 | 1.19 | 6.0 |
| 4/26/2015 21:54:09 | 54.13 | 48.63 | 137 | 1.75 | 1.12 | 7.5 |
| 4/26/2015 21:54:12 | 54.46 | 48.96 | 140 | 1.76 | 1.19 | 7.6 |
| 4/26/2015 21:54:16 | 54.79 | 49.29 | 128 | 1.74 | 1.24 | 7.0 |
| 4/26/2015 21:54:20 | 55.12 | 49.62 | 38 | 1.79 | 1.15 | 2.1 |
| 4/26/2015 21:54:30 | 55.45 | 49.95 | 38 | 1.77 | 1.14 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 21:54:38 | 55.77 | 50.27 | 55 | 1.81 | 1.14 | 3.0 |
| 4/26/2015 | 21:54:46 | 56.10 | 50.60 | 40 | 1.79 | 1.10 | 2.2 |

## H137 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:50:40

**End Date:**
4/26/2015 21:56:05

**Operator Note:**
'5.5 5.6 c Auto Complete'

**Northing:**
365,888.24

**Easting:**
249,712.93

**Tide (feet):**
5.50



## Hole: H138 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:01:01 | 35.76 | 30.26 | 601 | 1.77 | 0.16 | 32.9 |
| 4/26/2015 22:01:02 | 36.09 | 30.59 | 601 | 1.76 | 0.16 | 32.9 |
| 4/26/2015 22:01:02 | 36.42 | 30.92 | 598 | 1.77 | 0.16 | 32.7 |
| 4/26/2015 22:01:03 | 36.75 | 31.25 | 601 | 1.78 | 0.15 | 32.9 |
| 4/26/2015 22:01:04 | 37.07 | 31.57 | 598 | 1.79 | 0.15 | 32.7 |
| 4/26/2015 22:01:04 | 37.40 | 31.90 | 604 | 1.76 | 0.16 | 33.0 |
| 4/26/2015 22:01:05 | 37.73 | 32.23 | 604 | 1.80 | 0.15 | 33.0 |
| 4/26/2015 22:01:05 | 38.06 | 32.56 | 604 | 1.76 | 0.16 | 33.0 |
| 4/26/2015 22:01:06 | 38.39 | 32.89 | 601 | 1.77 | 0.15 | 32.9 |
| 4/26/2015 22:01:06 | 38.71 | 33.21 | 604 | 1.77 | 0.16 | 33.0 |
| 4/26/2015 22:01:08 | 39.04 | 33.54 | 601 | 1.79 | 0.15 | 32.9 |
| 4/26/2015 22:01:08 | 39.37 | 33.87 | 598 | 1.77 | 0.16 | 32.7 |
| 4/26/2015 22:01:09 | 39.70 | 34.20 | 601 | 1.79 | 0.16 | 32.9 |
| 4/26/2015 22:01:09 | 40.03 | 34.53 | 589 | 1.79 | 0.15 | 32.2 |
| 4/26/2015 22:01:10 | 40.35 | 34.85 | 589 | 1.81 | 0.15 | 32.2 |
| 4/26/2015 22:01:10 | 40.68 | 35.18 | 592 | 1.78 | 0.15 | 32.3 |
| 4/26/2015 22:01:11 | 41.01 | 35.51 | 594 | 1.80 | 0.15 | 32.5 |
| 4/26/2015 22:01:12 | 41.34 | 35.84 | 588 | 1.79 | 0.15 | 32.1 |
| 4/26/2015 22:01:12 | 41.67 | 36.17 | 597 | 1.81 | 0.16 | 32.6 |
| 4/26/2015 22:01:13 | 41.99 | 36.49 | 597 | 1.78 | 0.16 | 32.6 |
| 4/26/2015 22:01:13 | 42.32 | 36.82 | 589 | 1.77 | 0.16 | 32.2 |
| 4/26/2015 22:01:14 | 42.65 | 37.15 | 593 | 1.79 | 0.15 | 32.4 |
| 4/26/2015 22:01:14 | 42.98 | 37.48 | 594 | 1.78 | 0.16 | 32.5 |
| 4/26/2015 22:01:15 | 43.31 | 37.81 | 597 | 1.81 | 0.15 | 32.7 |
| 4/26/2015 22:01:16 | 43.64 | 38.14 | 598 | 1.79 | 0.16 | 32.7 |
| 4/26/2015 22:01:17 | 43.96 | 38.46 | 598 | 1.78 | 0.16 | 32.7 |
| 4/26/2015 22:01:17 | 44.29 | 38.79 | 603 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 22:01:18 | 44.62 | 39.12 | 603 | 1.80 | 0.15 | 33.0 |
| 4/26/2015 22:01:18 | 44.95 | 39.45 | 603 | 1.80 | 0.15 | 33.0 |
| 4/26/2015 22:01:19 | 45.28 | 39.78 | 603 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 22:01:19 | 45.60 | 40.10 | 596 | 1.77 | 0.15 | 32.6 |
| 4/26/2015 22:01:20 | 45.93 | 40.43 | 583 | 1.77 | 0.15 | 31.9 |
| 4/26/2015 22:01:21 | 46.26 | 40.76 | 576 | 1.77 | 0.15 | 31.5 |
| 4/26/2015 22:01:21 | 46.59 | 41.09 | 576 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 22:01:22 | 46.92 | 41.42 | 576 | 1.81 | 0.15 | 31.5 |
| 4/26/2015 22:01:22 | 47.24 | 41.74 | 593 | 1.77 | 0.16 | 32.4 |
| 4/26/2015 22:01:23 | 47.57 | 42.07 | 596 | 1.76 | 0.15 | 32.6 |
| 4/26/2015 22:01:24 | 47.90 | 42.40 | 610 | 1.79 | 0.16 | 33.4 |
| 4/26/2015 22:01:24 | 48.23 | 42.73 | 614 | 1.79 | 0.15 | 33.6 |
| 4/26/2015 22:01:25 | 48.56 | 43.06 | 604 | 1.77 | 0.16 | 33.0 |
| 4/26/2015 22:01:25 | 48.88 | 43.38 | 600 | 1.79 | 0.16 | 32.8 |
| 4/26/2015 22:01:26 | 49.21 | 43.71 | 596 | 1.79 | 0.16 | 32.6 |
| 4/26/2015 22:01:26 | 49.54 | 44.04 | 596 | 1.77 | 0.15 | 32.6 |
| 4/26/2015 22:01:27 | 49.87 | 44.37 | 593 | 1.79 | 0.15 | 32.4 |
| 4/26/2015 22:01:28 | 50.20 | 44.70 | 593 | 1.78 | 0.16 | 32.4 |
| 4/26/2015 22:01:29 | 50.53 | 45.03 | 593 | 1.80 | 0.16 | 32.4 |
| 4/26/2015 22:01:29 | 50.85 | 45.35 | 593 | 1.76 | 0.16 | 32.4 |
| 4/26/2015 22:01:30 | 51.18 | 45.68 | 589 | 1.79 | 0.16 | 32.2 |
| 4/26/2015 22:01:30 | 51.51 | 46.01 | 593 | 1.76 | 0.16 | 32.4 |
| 4/26/2015 22:01:43 | 51.84 | 46.34 | 29 | 1.73 | 1.07 | 1.6 |
| 4/26/2015 22:01:45 | 52.17 | 46.67 | 214 | 1.79 | 1.21 | 11.7 |
| 4/26/2015 22:01:55 | 52.49 | 46.99 | 58 | 1.76 | 1.16 | 3.2 |
| 4/26/2015 22:02:07 | 52.82 | 47.32 | 23 | 1.80 | 1.12 | 1.2 |
| 4/26/2015 22:02:22 | 53.15 | 47.65 | 27 | 1.78 | 1.15 | 1.5 |
| 4/26/2015 22:02:25 | 53.27 | 47.77 | 43 | 1.79 | 1.07 | 2.4 |

## H138 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:59:27

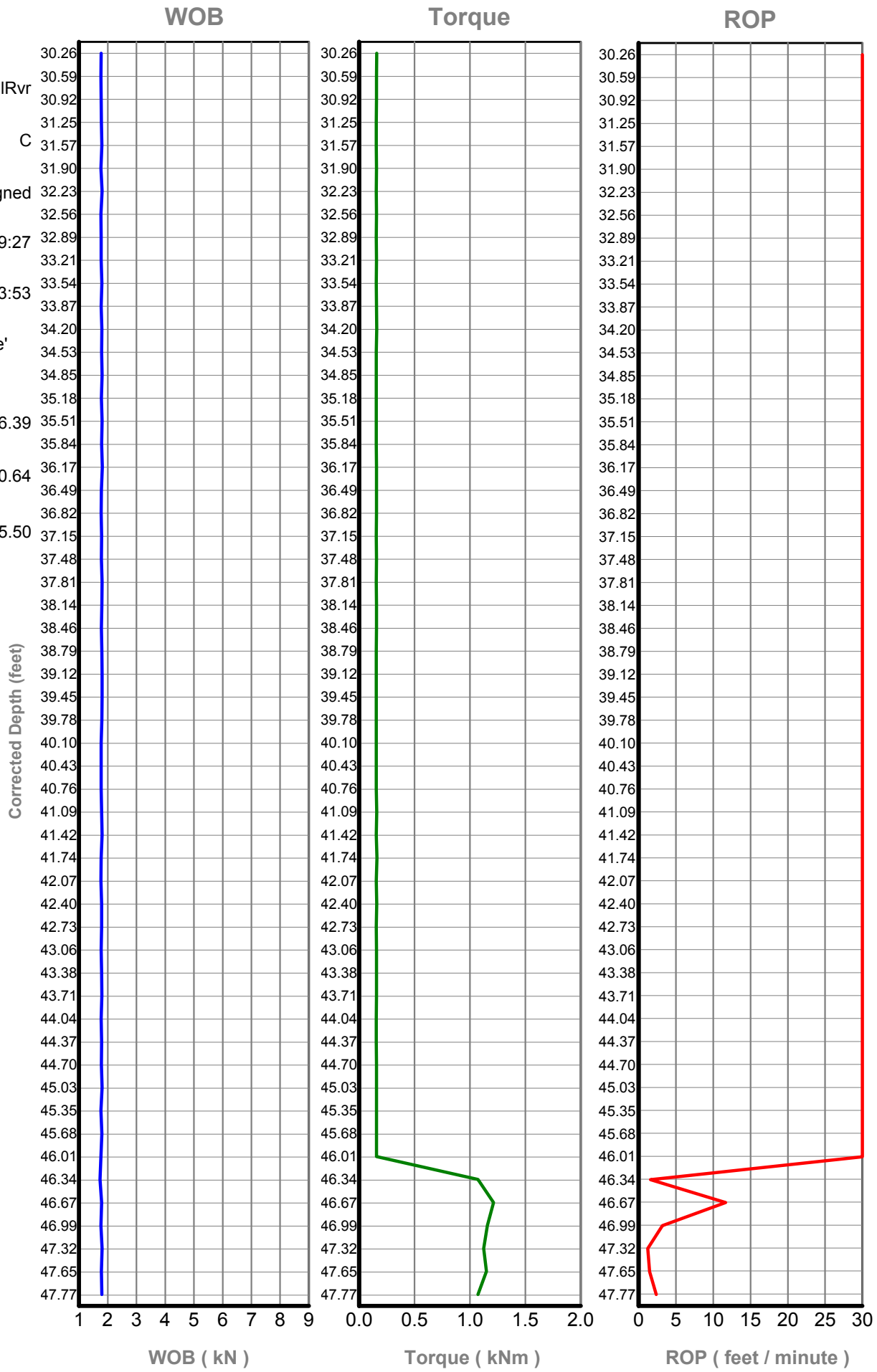
**End Date:**
4/26/2015 22:03:53

**Operator Note:**
'5.5 5.5 c Auto Complete'

**Northing:**
365,936.39

**Easting:**
249,770.64

**Tide (feet):**
5.50



## Hole: H139 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:11:26 | 30.84 | 30.04 | 1,105 | 0.31 | 0.30 | 60.4 |
| 4/26/2015 14:11:26 | 31.17 | 30.37 | 1,092 | 0.30 | 0.32 | 59.7 |
| 4/26/2015 14:11:27 | 31.50 | 30.70 | 1,092 | 0.30 | 0.32 | 59.7 |
| 4/26/2015 14:11:27 | 31.82 | 31.02 | 1,102 | 0.29 | 0.30 | 60.2 |
| 4/26/2015 14:11:27 | 32.15 | 31.35 | 1,095 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 14:11:28 | 32.48 | 31.68 | 1,095 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 14:11:28 | 32.81 | 32.01 | 1,108 | 0.30 | 0.31 | 60.6 |
| 4/26/2015 14:11:28 | 33.14 | 32.34 | 1,108 | 0.30 | 0.31 | 60.6 |
| 4/26/2015 14:11:28 | 33.46 | 32.66 | 1,091 | 0.30 | 0.30 | 59.7 |
| 4/26/2015 14:11:29 | 33.79 | 32.99 | 1,112 | 0.29 | 0.31 | 60.8 |
| 4/26/2015 14:11:29 | 34.12 | 33.32 | 1,112 | 0.29 | 0.31 | 60.8 |
| 4/26/2015 14:11:29 | 34.45 | 33.65 | 1,109 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:11:30 | 34.78 | 33.98 | 1,115 | 0.30 | 0.31 | 61.0 |
| 4/26/2015 14:11:30 | 35.11 | 34.31 | 1,115 | 0.30 | 0.31 | 61.0 |
| 4/26/2015 14:11:30 | 35.43 | 34.63 | 1,106 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:11:31 | 35.76 | 34.96 | 1,106 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:11:31 | 36.09 | 35.29 | 1,118 | 0.30 | 0.31 | 61.1 |
| 4/26/2015 14:11:31 | 36.42 | 35.62 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:32 | 36.75 | 35.95 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:32 | 37.07 | 36.27 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:33 | 37.40 | 36.60 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:32 | 37.73 | 36.93 | 1,088 | 0.30 | 0.30 | 59.5 |
| 4/26/2015 14:11:33 | 38.06 | 37.26 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:11:34 | 38.39 | 37.59 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:11:34 | 38.71 | 37.91 | 1,102 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:34 | 39.04 | 38.24 | 1,109 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:11:35 | 39.37 | 38.57 | 1,109 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:11:35 | 39.70 | 38.90 | 1,105 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:11:35 | 40.03 | 39.23 | 1,105 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:11:35 | 40.35 | 39.55 | 1,114 | 0.29 | 0.30 | 60.9 |
| 4/26/2015 14:11:36 | 40.68 | 39.88 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:11:36 | 41.01 | 40.21 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:11:36 | 41.34 | 40.54 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:11:37 | 41.67 | 40.87 | 1,095 | 0.29 | 0.30 | 59.9 |
| 4/26/2015 14:11:37 | 41.99 | 41.19 | 1,095 | 0.29 | 0.30 | 59.9 |
| 4/26/2015 14:11:37 | 42.32 | 41.52 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 14:11:38 | 42.65 | 41.85 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 14:11:38 | 42.98 | 42.18 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 14:11:38 | 43.31 | 42.51 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:11:39 | 43.64 | 42.84 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:11:39 | 43.96 | 43.16 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 14:11:39 | 44.29 | 43.49 | 1,057 | 0.29 | 0.30 | 57.8 |
| 4/26/2015 14:11:40 | 44.62 | 43.82 | 1,057 | 0.29 | 0.30 | 57.8 |
| 4/26/2015 14:11:40 | 44.95 | 44.15 | 1,060 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 14:11:40 | 45.28 | 44.48 | 1,060 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 14:11:40 | 45.60 | 44.80 | 1,060 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 14:11:41 | 45.93 | 45.13 | 1,080 | 0.29 | 0.33 | 59.0 |
| 4/26/2015 14:11:42 | 46.26 | 45.46 | 1,080 | 0.29 | 0.33 | 59.0 |
| 4/26/2015 14:11:46 | 46.59 | 45.79 | 43 | 3.64 | 0.39 | 2.3 |
| 4/26/2015 14:11:49 | 46.92 | 46.12 | 147 | 5.58 | 0.38 | 8.0 |
| 4/26/2015 14:11:52 | 47.24 | 46.44 | 75 | 3.89 | 0.36 | 4.1 |
| 4/26/2015 14:11:54 | 47.57 | 46.77 | 193 | 3.85 | 0.39 | 10.5 |
| 4/26/2015 14:11:56 | 47.90 | 47.10 | 206 | 3.24 | 0.37 | 11.3 |
| 4/26/2015 14:12:03 | 48.23 | 47.43 | 12 | 3.10 | 0.38 | 0.6 |
| 4/26/2015 14:12:09 | 48.56 | 47.76 | 49 | 3.41 | 0.40 | 2.7 |
| 4/26/2015 14:12:14 | 48.88 | 48.08 | 62 | 3.40 | 0.39 | 3.4 |
| 4/26/2015 14:12:20 | 49.21 | 48.41 | 61 | 3.48 | 0.39 | 3.3 |
| 4/26/2015 14:12:26 | 49.54 | 48.74 | 52 | 3.64 | 0.39 | 2.8 |
| 4/26/2015 14:12:33 | 49.87 | 49.07 | 49 | 3.40 | 0.39 | 2.7 |
| 4/26/2015 14:12:33 | 49.90 | 49.10 | 55 | 3.18 | 0.40 | 3.0 |

## H139 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:09:44

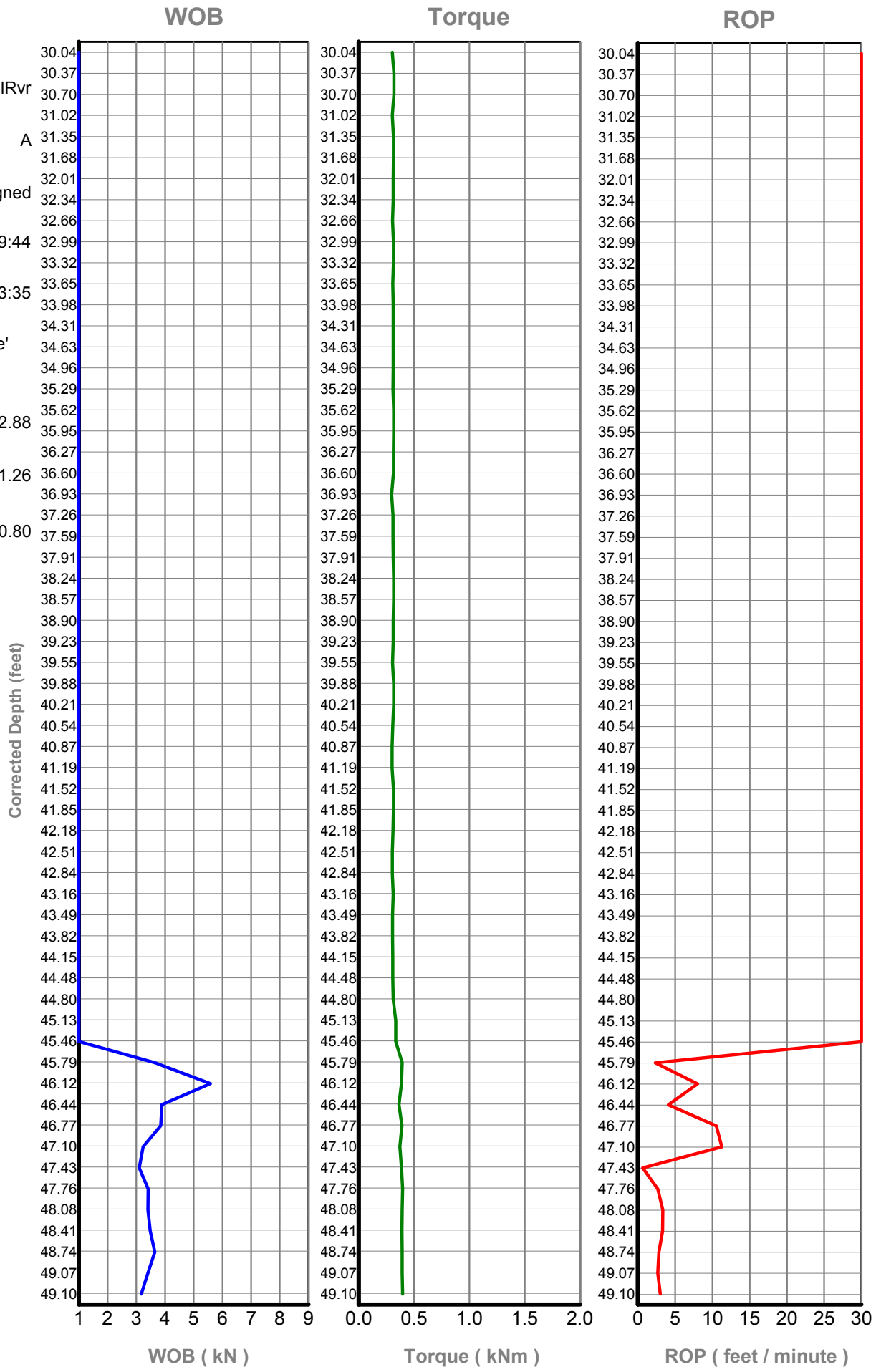
**End Date:**
4/26/2015 14:13:35

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
366,002.88

**Easting:**
249,851.26

**Tide (feet):**
0.80



## Hole: H14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:23:34 | 31.50 | 30.30 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:23:34 | 31.82 | 30.62 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 13:23:35 | 32.15 | 30.95 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 13:23:35 | 32.48 | 31.28 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 13:23:35 | 32.81 | 31.61 | 1,073 | 0.37 | 0.31 | 58.6 |
| 4/26/2015 13:23:36 | 33.14 | 31.94 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 13:23:36 | 33.46 | 32.26 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 13:23:36 | 33.79 | 32.59 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 13:23:37 | 34.12 | 32.92 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 13:23:37 | 34.45 | 33.25 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 13:23:37 | 34.78 | 33.58 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 13:23:38 | 35.11 | 33.91 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 13:23:38 | 35.43 | 34.23 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 13:23:38 | 35.76 | 34.56 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/26/2015 13:23:39 | 36.09 | 34.89 | 1,067 | 0.29 | 0.32 | 58.3 |
| 4/26/2015 13:23:39 | 36.42 | 35.22 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 13:23:40 | 36.75 | 35.55 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:23:40 | 37.07 | 35.87 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:23:40 | 37.40 | 36.20 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/26/2015 13:23:41 | 37.73 | 36.53 | 1,052 | 0.29 | 0.31 | 57.5 |
| 4/26/2015 13:23:41 | 38.06 | 36.86 | 1,052 | 0.29 | 0.31 | 57.5 |
| 4/26/2015 13:23:41 | 38.39 | 37.19 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 13:23:42 | 38.71 | 37.51 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 13:23:42 | 39.04 | 37.84 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 13:23:42 | 39.37 | 38.17 | 1,064 | 0.29 | 0.32 | 58.2 |
| 4/26/2015 13:23:43 | 39.70 | 38.50 | 1,064 | 0.29 | 0.32 | 58.2 |
| 4/26/2015 13:23:43 | 40.03 | 38.83 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/26/2015 13:23:43 | 40.35 | 39.15 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 13:23:44 | 40.68 | 39.48 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 13:23:44 | 41.01 | 39.81 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 13:23:44 | 41.34 | 40.14 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/26/2015 13:23:45 | 41.67 | 40.47 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/26/2015 13:23:45 | 41.99 | 40.79 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 13:23:45 | 42.32 | 41.12 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 13:23:46 | 42.65 | 41.45 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/26/2015 13:23:46 | 42.98 | 41.78 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/26/2015 13:23:46 | 43.31 | 42.11 | 1,061 | 0.29 | 0.34 | 58.0 |
| 4/26/2015 13:23:47 | 43.64 | 42.44 | 1,061 | 0.29 | 0.34 | 58.0 |
| 4/26/2015 13:23:54 | 43.96 | 42.76 | 26 | 4.96 | 0.38 | 1.4 |
| 4/26/2015 13:23:57 | 44.29 | 43.09 | 92 | 3.94 | 0.35 | 5.1 |
| 4/26/2015 13:24:04 | 44.62 | 43.42 | 0 | 3.50 | 0.38 | 0.0 |
| 4/26/2015 13:24:09 | 44.95 | 43.75 | 0 | 2.33 | 0.33 | 0.0 |
| 4/26/2015 13:24:12 | 45.28 | 44.08 | 188 | 4.04 | 0.39 | 10.3 |
| 4/26/2015 13:24:26 | 45.60 | 44.40 | 0 | 2.91 | 0.40 | 0.0 |
| 4/26/2015 13:24:33 | 45.93 | 44.73 | 50 | 3.34 | 0.39 | 2.7 |
| 4/26/2015 13:24:40 | 46.26 | 45.06 | 55 | 3.53 | 0.39 | 3.0 |
| 4/26/2015 13:24:41 | 46.59 | 45.39 | 150 | 3.02 | 0.38 | 8.2 |
| 4/26/2015 13:24:46 | 46.92 | 45.72 | 52 | 3.37 | 0.41 | 2.8 |
| 4/26/2015 13:24:53 | 47.24 | 46.04 | 60 | 3.06 | 0.40 | 3.3 |
| 4/26/2015 13:24:59 | 47.57 | 46.37 | 61 | 3.07 | 0.40 | 3.3 |
| 4/26/2015 13:25:01 | 47.70 | 46.50 | 61 | 3.37 | 0.39 | 3.3 |

## H14 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:21:47

**End Date:**
4/26/2015 13:25:54

**Operator Note:**
'1.2 1.3 b Auto Complete'

**Northing:**
366,203.92

**Easting:**
249,748.57

**Tide (feet):**
1.20



## Hole: H140 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:15:14 | 30.84 | 30.04 | 1,095 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 14:15:14 | 31.17 | 30.37 | 1,115 | 0.29 | 0.30 | 61.0 |
| 4/26/2015 14:15:14 | 31.50 | 30.70 | 1,115 | 0.29 | 0.30 | 61.0 |
| 4/26/2015 14:15:14 | 31.82 | 31.02 | 1,108 | 0.30 | 0.30 | 60.6 |
| 4/26/2015 14:15:15 | 32.15 | 31.35 | 1,105 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:15:15 | 32.48 | 31.68 | 1,105 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:15:15 | 32.81 | 32.01 | 1,105 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:15:16 | 33.14 | 32.34 | 1,105 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:15:16 | 33.46 | 32.66 | 1,111 | 0.29 | 0.30 | 60.8 |
| 4/26/2015 14:15:16 | 33.79 | 32.99 | 1,101 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 14:15:17 | 34.12 | 33.32 | 1,101 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 14:15:17 | 34.45 | 33.65 | 1,101 | 0.29 | 0.30 | 60.2 |
| 4/26/2015 14:15:17 | 34.78 | 33.98 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 14:15:18 | 35.11 | 34.31 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 14:15:18 | 35.43 | 34.63 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 14:15:18 | 35.76 | 34.96 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 14:15:18 | 36.09 | 35.29 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:15:19 | 36.42 | 35.62 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:15:19 | 36.75 | 35.95 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:15:19 | 37.07 | 36.27 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:20 | 37.40 | 36.60 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:21 | 37.73 | 36.93 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:20 | 38.06 | 37.26 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 14:15:21 | 38.39 | 37.59 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 14:15:21 | 38.71 | 37.91 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 14:15:21 | 39.04 | 38.24 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 14:15:22 | 39.37 | 38.57 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 14:15:22 | 39.70 | 38.90 | 1,091 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 14:15:23 | 40.03 | 39.23 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 14:15:23 | 40.35 | 39.55 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 14:15:23 | 40.68 | 39.88 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:24 | 41.01 | 40.21 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:24 | 41.34 | 40.54 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:15:24 | 41.67 | 40.87 | 1,108 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:15:25 | 41.99 | 41.19 | 1,108 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:15:25 | 42.32 | 41.52 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:15:25 | 42.65 | 41.85 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 14:15:26 | 42.98 | 42.18 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 14:15:26 | 43.31 | 42.51 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 14:15:26 | 43.64 | 42.84 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 14:15:26 | 43.96 | 43.16 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 14:15:27 | 44.29 | 43.49 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 14:15:27 | 44.62 | 43.82 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 14:15:27 | 44.95 | 44.15 | 1,093 | 0.29 | 0.30 | 59.8 |
| 4/26/2015 14:15:28 | 45.28 | 44.48 | 1,090 | 0.29 | 0.34 | 59.6 |
| 4/26/2015 14:15:28 | 45.60 | 44.80 | 1,090 | 0.29 | 0.34 | 59.6 |
| 4/26/2015 14:15:37 | 45.93 | 45.13 | 3 | 4.03 | 0.38 | 0.2 |
| 4/26/2015 14:15:38 | 46.26 | 45.46 | 70 | 1.95 | 0.34 | 3.9 |
| 4/26/2015 14:15:48 | 46.59 | 45.79 | 6 | 2.67 | 0.39 | 0.3 |
| 4/26/2015 14:15:56 | 46.92 | 46.12 | 49 | 3.86 | 0.39 | 2.7 |
| 4/26/2015 14:16:04 | 47.24 | 46.44 | 52 | 3.50 | 0.39 | 2.8 |
| 4/26/2015 14:16:10 | 47.57 | 46.77 | 55 | 3.70 | 0.40 | 3.0 |
| 4/26/2015 14:16:11 | 47.64 | 46.84 | 55 | 3.64 | 0.39 | 3.0 |

## H140 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:13:40

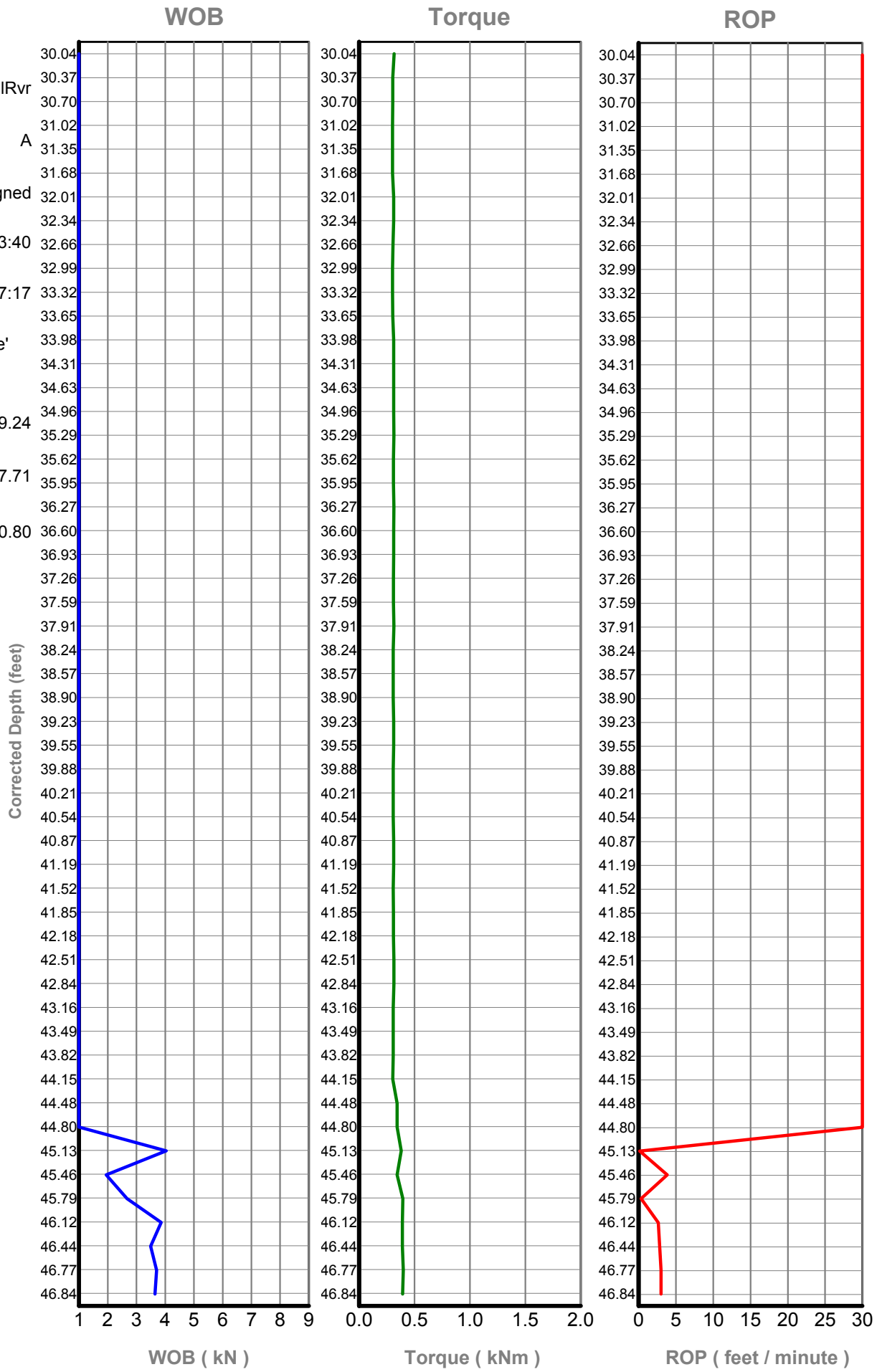
**End Date:**
4/26/2015 14:17:17

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
366,039.24

**Easting:**
249,897.71

**Tide (feet):**
0.80



## Hole: H141 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:13:21 | 30.84 | 30.04 | 672 | 1.76 | 0.29 | 36.7 |
| 4/26/2015 14:13:22 | 31.17 | 30.37 | 662 | 1.74 | 0.29 | 36.2 |
| 4/26/2015 14:13:22 | 31.50 | 30.70 | 662 | 1.75 | 0.29 | 36.2 |
| 4/26/2015 14:13:23 | 31.82 | 31.02 | 671 | 1.76 | 0.30 | 36.7 |
| 4/26/2015 14:13:23 | 32.15 | 31.35 | 674 | 1.76 | 0.29 | 36.9 |
| 4/26/2015 14:13:24 | 32.48 | 31.68 | 668 | 1.74 | 0.29 | 36.5 |
| 4/26/2015 14:13:24 | 32.81 | 32.01 | 682 | 1.76 | 0.29 | 37.3 |
| 4/26/2015 14:13:25 | 33.14 | 32.34 | 686 | 1.76 | 0.29 | 37.5 |
| 4/26/2015 14:13:25 | 33.46 | 32.66 | 656 | 1.74 | 0.29 | 35.9 |
| 4/26/2015 14:13:26 | 33.79 | 32.99 | 656 | 1.75 | 0.29 | 35.9 |
| 4/26/2015 14:13:27 | 34.12 | 33.32 | 664 | 1.73 | 0.28 | 36.3 |
| 4/26/2015 14:13:27 | 34.45 | 33.65 | 664 | 1.75 | 0.29 | 36.3 |
| 4/26/2015 14:13:28 | 34.78 | 33.98 | 657 | 1.74 | 0.28 | 35.9 |
| 4/26/2015 14:13:28 | 35.11 | 34.31 | 657 | 1.76 | 0.26 | 35.9 |
| 4/26/2015 14:13:29 | 35.43 | 34.63 | 660 | 1.75 | 0.29 | 36.1 |
| 4/26/2015 14:13:29 | 35.76 | 34.96 | 660 | 1.75 | 0.29 | 36.1 |
| 4/26/2015 14:13:30 | 36.09 | 35.29 | 667 | 1.76 | 0.28 | 36.4 |
| 4/26/2015 14:13:30 | 36.42 | 35.62 | 683 | 1.73 | 0.28 | 37.4 |
| 4/26/2015 14:13:31 | 36.75 | 35.95 | 673 | 1.76 | 0.28 | 36.8 |
| 4/26/2015 14:13:31 | 37.07 | 36.27 | 686 | 1.74 | 0.28 | 37.5 |
| 4/26/2015 14:13:32 | 37.40 | 36.60 | 680 | 1.76 | 0.28 | 37.2 |
| 4/26/2015 14:13:32 | 37.73 | 36.93 | 674 | 1.76 | 0.28 | 36.9 |
| 4/26/2015 14:13:33 | 38.06 | 37.26 | 674 | 1.74 | 0.28 | 36.9 |
| 4/26/2015 14:13:33 | 38.39 | 37.59 | 677 | 1.74 | 0.28 | 37.0 |
| 4/26/2015 14:13:34 | 38.71 | 37.91 | 667 | 1.76 | 0.28 | 36.5 |
| 4/26/2015 14:13:34 | 39.04 | 38.24 | 666 | 1.74 | 0.28 | 36.4 |
| 4/26/2015 14:13:35 | 39.37 | 38.57 | 666 | 1.76 | 0.28 | 36.4 |
| 4/26/2015 14:13:36 | 39.70 | 38.90 | 669 | 1.77 | 0.28 | 36.6 |
| 4/26/2015 14:13:36 | 40.03 | 39.23 | 649 | 1.73 | 0.28 | 35.5 |
| 4/26/2015 14:13:37 | 40.35 | 39.55 | 649 | 1.76 | 0.28 | 35.5 |
| 4/26/2015 14:13:37 | 40.68 | 39.88 | 662 | 1.74 | 0.28 | 36.2 |
| 4/26/2015 14:13:38 | 41.01 | 40.21 | 647 | 1.74 | 0.28 | 35.4 |
| 4/26/2015 14:13:38 | 41.34 | 40.54 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 14:13:39 | 41.67 | 40.87 | 649 | 1.74 | 0.28 | 35.5 |
| 4/26/2015 14:13:39 | 41.99 | 41.19 | 677 | 1.74 | 0.28 | 37.0 |
| 4/26/2015 14:13:40 | 42.32 | 41.52 | 677 | 1.76 | 0.28 | 37.0 |
| 4/26/2015 14:13:40 | 42.65 | 41.85 | 673 | 1.76 | 0.28 | 36.8 |
| 4/26/2015 14:13:41 | 42.98 | 42.18 | 665 | 1.74 | 0.28 | 36.4 |
| 4/26/2015 14:13:41 | 43.31 | 42.51 | 665 | 1.74 | 0.28 | 36.4 |
| 4/26/2015 14:13:42 | 43.64 | 42.84 | 670 | 1.76 | 0.28 | 36.6 |
| 4/26/2015 14:13:42 | 43.96 | 43.16 | 675 | 1.76 | 0.28 | 36.9 |
| 4/26/2015 14:13:43 | 44.29 | 43.49 | 650 | 1.75 | 0.28 | 35.6 |
| 4/26/2015 14:13:44 | 44.62 | 43.82 | 650 | 1.76 | 0.28 | 35.6 |
| 4/26/2015 14:13:44 | 44.95 | 44.15 | 672 | 1.75 | 0.28 | 36.7 |
| 4/26/2015 14:13:45 | 45.28 | 44.48 | 646 | 1.76 | 0.28 | 35.3 |
| 4/26/2015 14:14:12 | 45.60 | 44.80 | 33 | 1.74 | 1.12 | 1.8 |
| 4/26/2015 14:14:16 | 45.93 | 45.13 | 99 | 1.77 | 1.16 | 5.4 |
| 4/26/2015 14:14:20 | 46.26 | 45.46 | 95 | 1.76 | 1.10 | 5.2 |
| 4/26/2015 14:14:24 | 46.59 | 45.79 | 85 | 1.75 | 1.20 | 4.7 |
| 4/26/2015 14:14:28 | 46.92 | 46.12 | 72 | 1.76 | 1.22 | 3.9 |
| 4/26/2015 14:14:36 | 47.24 | 46.44 | 35 | 1.78 | 1.04 | 1.9 |
| 4/26/2015 14:14:47 | 47.57 | 46.77 | 38 | 1.77 | 1.06 | 2.1 |
| 4/26/2015 14:14:55 | 47.81 | 47.01 | 32 | 1.77 | 1.07 | 1.7 |

## H141 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:11:59

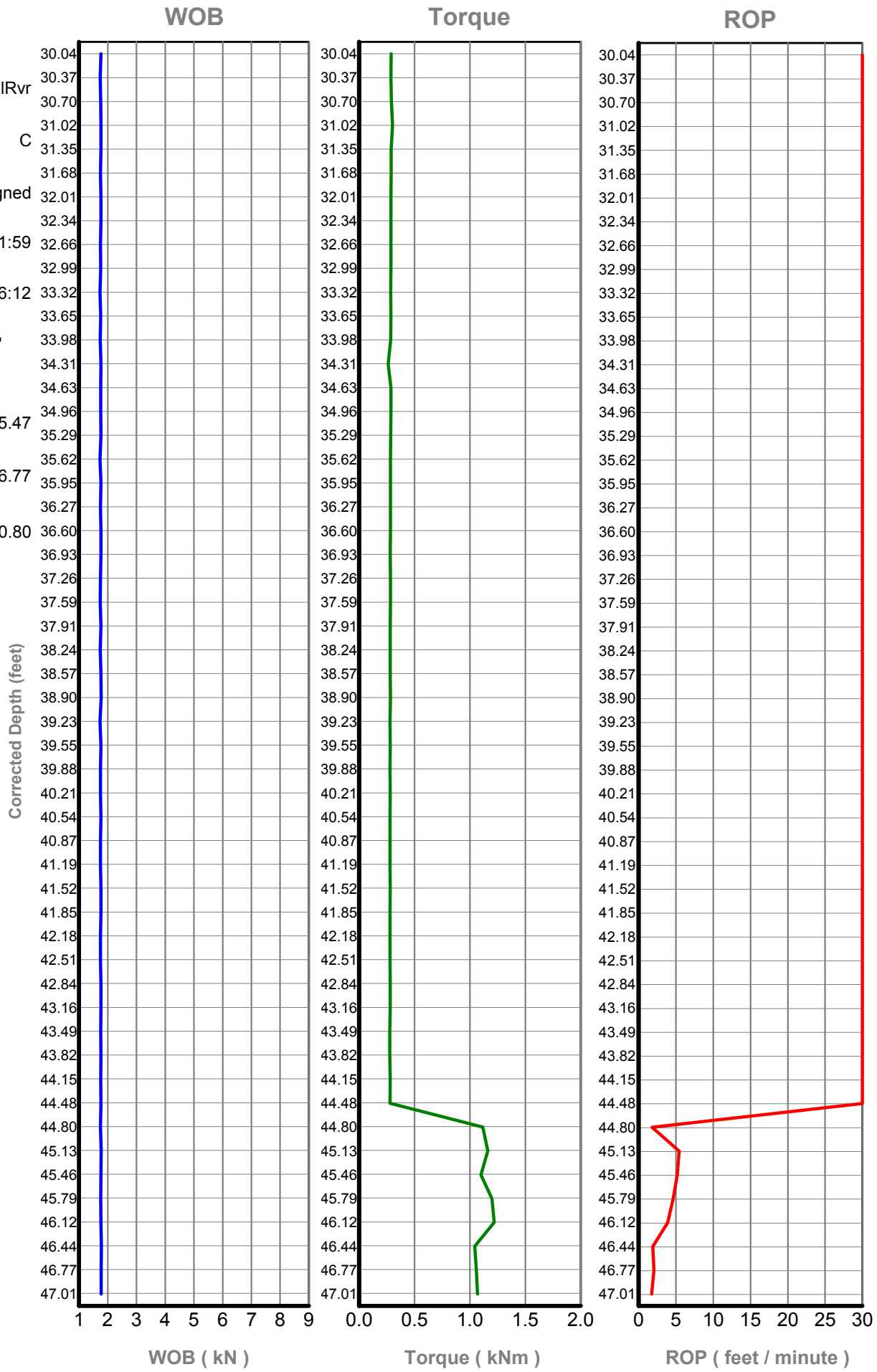
**End Date:**
4/26/2015 14:16:12

**Operator Note:**
'0.8 .8 C Auto Complete'

**Northing:**
366,085.47

**Easting:**
249,956.77

**Tide (feet):**
0.80



## Hole: H142 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:06:46 | 32.48 | 30.18 | 1,030 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 12:06:47 | 32.81 | 30.51 | 1,048 | 0.32 | 0.32 | 57.3 |
| 4/26/2015 12:06:47 | 33.14 | 30.84 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 12:06:48 | 33.46 | 31.16 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 12:06:48 | 33.79 | 31.49 | 1,022 | 0.32 | 0.31 | 55.9 |
| 4/26/2015 12:06:48 | 34.12 | 31.82 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 12:06:49 | 34.45 | 32.15 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 12:06:49 | 34.78 | 32.48 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 12:06:49 | 35.11 | 32.81 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 12:06:50 | 35.43 | 33.13 | 1,016 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 12:06:50 | 35.76 | 33.46 | 1,010 | 0.31 | 0.33 | 55.2 |
| 4/26/2015 12:06:50 | 36.09 | 33.79 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 12:06:51 | 36.42 | 34.12 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 12:06:51 | 36.75 | 34.45 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 12:06:51 | 37.07 | 34.77 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 12:06:52 | 37.40 | 35.10 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 12:06:52 | 37.73 | 35.43 | 1,022 | 0.30 | 0.32 | 55.9 |
| 4/26/2015 12:06:52 | 38.06 | 35.76 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:06:53 | 38.39 | 36.09 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:06:53 | 38.71 | 36.41 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 12:06:53 | 39.04 | 36.74 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/26/2015 12:06:54 | 39.37 | 37.07 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/26/2015 12:06:54 | 39.70 | 37.40 | 1,029 | 0.31 | 0.32 | 56.2 |
| 4/26/2015 12:06:54 | 40.03 | 37.73 | 1,034 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 12:06:55 | 40.35 | 38.05 | 1,034 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 12:06:55 | 40.68 | 38.38 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/26/2015 12:06:55 | 41.01 | 38.71 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:06:56 | 41.34 | 39.04 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:06:56 | 41.67 | 39.37 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 12:06:56 | 41.99 | 39.69 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 12:06:57 | 42.32 | 40.02 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 12:06:57 | 42.65 | 40.35 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:06:58 | 42.98 | 40.68 | 1,030 | 0.34 | 0.32 | 56.3 |
| 4/26/2015 12:06:58 | 43.31 | 41.01 | 1,030 | 0.34 | 0.32 | 56.3 |
| 4/26/2015 12:06:58 | 43.64 | 41.34 | 1,024 | 0.29 | 0.32 | 56.0 |
| 4/26/2015 12:06:59 | 43.96 | 41.66 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:06:59 | 44.29 | 41.99 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:06:59 | 44.62 | 42.32 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 12:07:00 | 44.95 | 42.65 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 12:07:00 | 45.28 | 42.98 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 12:07:00 | 45.60 | 43.30 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:07:01 | 45.93 | 43.63 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:07:01 | 46.26 | 43.96 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:07:01 | 46.59 | 44.29 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 12:07:02 | 46.92 | 44.62 | 1,017 | 0.29 | 0.36 | 55.6 |
| 4/26/2015 12:07:06 | 47.24 | 44.94 | 23 | 3.69 | 0.38 | 1.3 |
| 4/26/2015 12:07:07 | 47.57 | 45.27 | 69 | 2.60 | 0.35 | 3.8 |
| 4/26/2015 12:07:11 | 47.90 | 45.60 | 41 | 2.69 | 0.40 | 2.3 |
| 4/26/2015 12:07:19 | 48.23 | 45.93 | 21 | 3.10 | 0.41 | 1.1 |
| 4/26/2015 12:07:33 | 48.56 | 46.26 | 32 | 2.99 | 0.40 | 1.8 |
| 4/26/2015 12:07:42 | 48.88 | 46.58 | 38 | 3.64 | 0.40 | 2.1 |
| 4/26/2015 12:07:48 | 49.21 | 46.91 | 59 | 4.13 | 0.40 | 3.2 |
| 4/26/2015 12:07:51 | 49.34 | 47.04 | 63 | 2.73 | 0.40 | 3.5 |

## H142 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:05:06

**End Date:**
4/26/2015 12:09:12

**Operator Note:**
'2.3 2.5 B Auto Complete'

**Northing:**
366,141.52

**Easting:**
250,023.87

**Tide (feet):**
2.30



## Hole: H143 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:02:34 | 32.48 | 30.08 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/26/2015 12:02:34 | 32.81 | 30.41 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:02:34 | 33.14 | 30.74 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/26/2015 12:02:35 | 33.46 | 31.06 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/26/2015 12:02:35 | 33.79 | 31.39 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/26/2015 12:02:35 | 34.12 | 31.72 | 1,043 | 0.33 | 0.31 | 57.0 |
| 4/26/2015 12:02:36 | 34.45 | 32.05 | 1,043 | 0.33 | 0.31 | 57.0 |
| 4/26/2015 12:02:36 | 34.78 | 32.38 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/26/2015 12:02:36 | 35.11 | 32.71 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/26/2015 12:02:37 | 35.43 | 33.03 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/26/2015 12:02:37 | 35.76 | 33.36 | 1,032 | 0.35 | 0.32 | 56.4 |
| 4/26/2015 12:02:38 | 36.09 | 33.69 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 12:02:38 | 36.42 | 34.02 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 12:02:38 | 36.75 | 34.35 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 12:02:39 | 37.07 | 34.67 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:02:39 | 37.40 | 35.00 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 12:02:39 | 37.73 | 35.33 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 12:02:40 | 38.06 | 35.66 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 12:02:40 | 38.39 | 35.99 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 12:02:40 | 38.71 | 36.31 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:02:41 | 39.04 | 36.64 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:02:41 | 39.37 | 36.97 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/26/2015 12:02:41 | 39.70 | 37.30 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/26/2015 12:02:42 | 40.03 | 37.63 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/26/2015 12:02:42 | 40.35 | 37.95 | 1,049 | 0.28 | 0.32 | 57.4 |
| 4/26/2015 12:02:42 | 40.68 | 38.28 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:02:43 | 41.01 | 38.61 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:02:43 | 41.34 | 38.94 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:43 | 41.67 | 39.27 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 12:02:44 | 41.99 | 39.59 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 12:02:44 | 42.32 | 39.92 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 12:02:44 | 42.65 | 40.25 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:45 | 42.98 | 40.58 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:45 | 43.31 | 40.91 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:45 | 43.64 | 41.24 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:02:46 | 43.96 | 41.56 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:02:46 | 44.29 | 41.89 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 12:02:46 | 44.62 | 42.22 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:47 | 44.95 | 42.55 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:47 | 45.28 | 42.88 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:02:48 | 45.60 | 43.20 | 1,044 | 0.31 | 0.33 | 57.1 |
| 4/26/2015 12:02:48 | 45.93 | 43.53 | 1,044 | 0.31 | 0.33 | 57.1 |
| 4/26/2015 12:02:48 | 46.26 | 43.86 | 1,032 | 0.30 | 0.34 | 56.4 |
| 4/26/2015 12:02:49 | 46.59 | 44.19 | 1,017 | 0.29 | 0.38 | 55.6 |
| 4/26/2015 12:03:03 | 46.92 | 44.52 | 60 | 3.52 | 0.40 | 3.3 |
| 4/26/2015 12:03:06 | 47.24 | 44.84 | 118 | 3.82 | 0.39 | 6.5 |
| 4/26/2015 12:03:09 | 47.57 | 45.17 | 144 | 4.02 | 0.39 | 7.9 |
| 4/26/2015 12:03:11 | 47.90 | 45.50 | 137 | 3.73 | 0.40 | 7.5 |
| 4/26/2015 12:03:17 | 48.23 | 45.83 | 48 | 3.52 | 0.40 | 2.6 |
| 4/26/2015 12:03:26 | 48.56 | 46.16 | 43 | 3.33 | 0.40 | 2.3 |
| 4/26/2015 12:03:30 | 48.88 | 46.48 | 66 | 3.52 | 0.40 | 3.6 |
| 4/26/2015 12:03:35 | 49.21 | 46.81 | 93 | 4.40 | 0.39 | 5.1 |
| 4/26/2015 12:03:40 | 49.54 | 47.14 | 46 | 3.33 | 0.40 | 2.5 |
| 4/26/2015 12:03:48 | 49.87 | 47.47 | 43 | 3.64 | 0.40 | 2.4 |
| 4/26/2015 12:03:56 | 50.20 | 47.80 | 55 | 3.32 | 0.40 | 3.0 |
| 4/26/2015 12:03:58 | 50.26 | 47.86 | 41 | 2.99 | 0.39 | 2.3 |

## H143 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:00:52

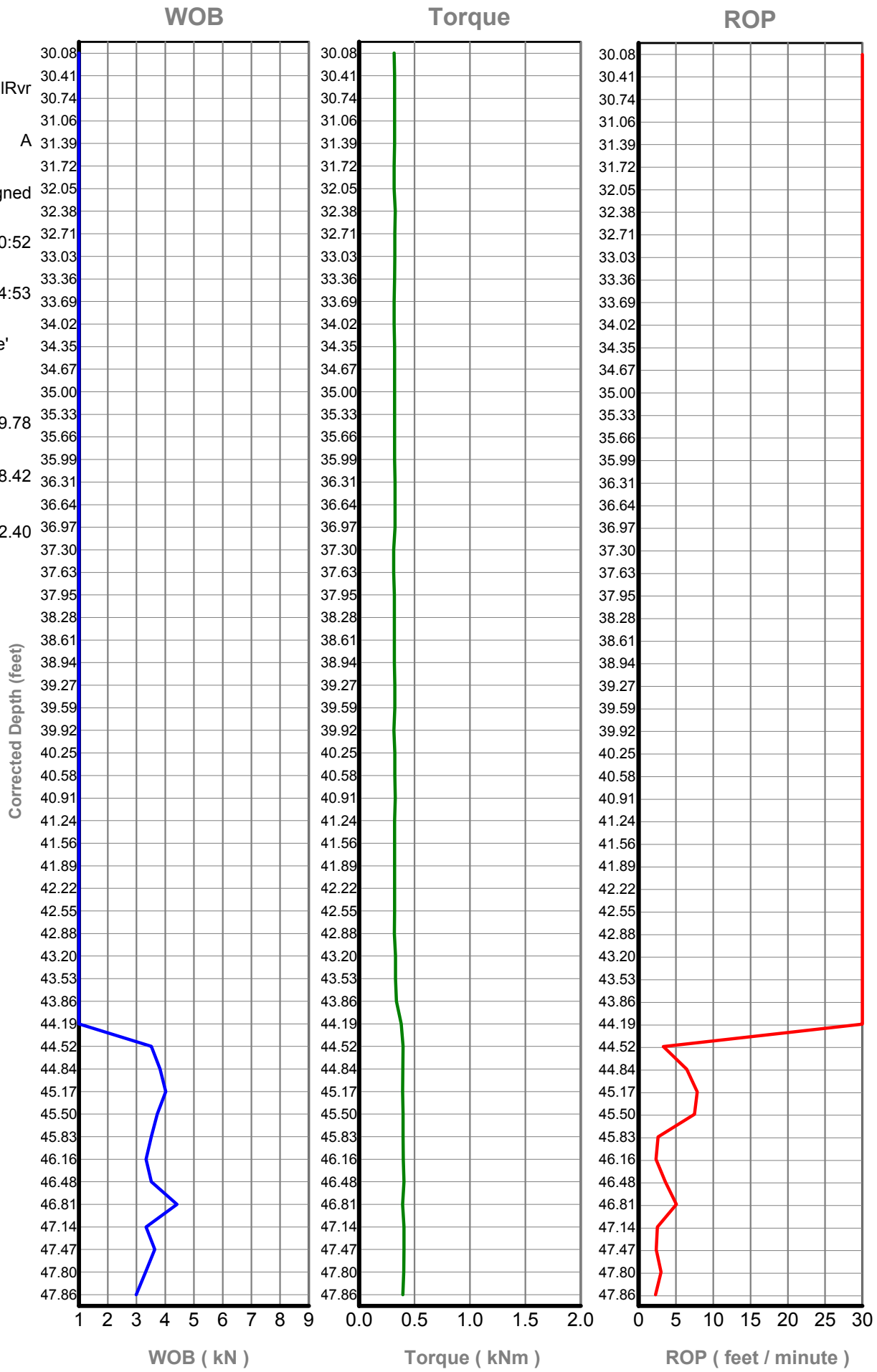
**End Date:**
4/26/2015 12:04:53

**Operator Note:**
'2.4 2.5 b Auto Complete'

**Northing:**
366,179.78

**Easting:**
250,068.42

**Tide (feet):**
2.40



## Hole: H144 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:04:46 | 32.48 | 30.08 | 569 | 1.79 | 0.30 | 31.1 |
| 4/26/2015 12:04:47 | 32.81 | 30.41 | 572 | 1.79 | 0.30 | 31.3 |
| 4/26/2015 12:04:47 | 33.14 | 30.74 | 575 | 1.78 | 0.30 | 31.5 |
| 4/26/2015 12:04:48 | 33.46 | 31.06 | 576 | 1.78 | 0.30 | 31.5 |
| 4/26/2015 12:04:48 | 33.79 | 31.39 | 572 | 1.76 | 0.30 | 31.3 |
| 4/26/2015 12:04:49 | 34.12 | 31.72 | 576 | 1.78 | 0.29 | 31.5 |
| 4/26/2015 12:04:50 | 34.45 | 32.05 | 570 | 1.79 | 0.29 | 31.1 |
| 4/26/2015 12:04:50 | 34.78 | 32.38 | 572 | 1.77 | 0.29 | 31.3 |
| 4/26/2015 12:04:51 | 35.11 | 32.71 | 569 | 1.76 | 0.29 | 31.1 |
| 4/26/2015 12:04:51 | 35.43 | 33.03 | 573 | 1.79 | 0.29 | 31.3 |
| 4/26/2015 12:04:53 | 35.76 | 33.36 | 573 | 1.77 | 0.30 | 31.3 |
| 4/26/2015 12:04:53 | 36.09 | 33.69 | 566 | 1.78 | 0.30 | 31.0 |
| 4/26/2015 12:04:54 | 36.42 | 34.02 | 576 | 1.76 | 0.30 | 31.5 |
| 4/26/2015 12:04:54 | 36.75 | 34.35 | 572 | 1.78 | 0.30 | 31.3 |
| 4/26/2015 12:04:55 | 37.07 | 34.67 | 572 | 1.78 | 0.30 | 31.3 |
| 4/26/2015 12:04:56 | 37.40 | 35.00 | 569 | 1.79 | 0.29 | 31.1 |
| 4/26/2015 12:04:56 | 37.73 | 35.33 | 569 | 1.79 | 0.30 | 31.1 |
| 4/26/2015 12:04:57 | 38.06 | 35.66 | 569 | 1.76 | 0.30 | 31.1 |
| 4/26/2015 12:04:57 | 38.39 | 35.99 | 566 | 1.77 | 0.29 | 31.0 |
| 4/26/2015 12:04:58 | 38.71 | 36.31 | 569 | 1.78 | 0.29 | 31.1 |
| 4/26/2015 12:04:59 | 39.04 | 36.64 | 576 | 1.76 | 0.36 | 31.5 |
| 4/26/2015 12:04:59 | 39.37 | 36.97 | 572 | 1.78 | 0.83 | 31.3 |
| 4/26/2015 12:05:00 | 39.70 | 37.30 | 575 | 1.77 | 0.84 | 31.5 |
| 4/26/2015 12:05:00 | 40.03 | 37.63 | 572 | 1.76 | 0.85 | 31.3 |
| 4/26/2015 12:05:01 | 40.35 | 37.95 | 575 | 1.77 | 0.85 | 31.5 |
| 4/26/2015 12:05:01 | 40.68 | 38.28 | 572 | 1.78 | 0.85 | 31.3 |
| 4/26/2015 12:05:02 | 41.01 | 38.61 | 572 | 1.75 | 0.85 | 31.3 |
| 4/26/2015 12:05:03 | 41.34 | 38.94 | 572 | 1.76 | 0.85 | 31.3 |
| 4/26/2015 12:05:04 | 41.67 | 39.27 | 572 | 1.76 | 0.85 | 31.3 |
| 4/26/2015 12:05:04 | 41.99 | 39.59 | 572 | 1.78 | 0.85 | 31.3 |
| 4/26/2015 12:05:05 | 42.32 | 39.92 | 566 | 1.78 | 0.85 | 31.0 |
| 4/26/2015 12:05:06 | 42.65 | 40.25 | 569 | 1.78 | 0.85 | 31.1 |
| 4/26/2015 12:05:06 | 42.98 | 40.58 | 572 | 1.76 | 0.86 | 31.3 |
| 4/26/2015 12:05:38 | 43.31 | 40.91 | 3 | 1.65 | 0.28 | 0.2 |
| 4/26/2015 12:05:39 | 43.64 | 41.24 | 172 | 1.77 | 0.28 | 9.4 |
| 4/26/2015 12:05:39 | 43.96 | 41.56 | 277 | 1.77 | 0.28 | 15.2 |
| 4/26/2015 12:05:40 | 44.29 | 41.89 | 393 | 1.77 | 0.28 | 21.5 |
| 4/26/2015 12:05:40 | 44.62 | 42.22 | 501 | 1.79 | 0.27 | 27.4 |
| 4/26/2015 12:05:41 | 44.95 | 42.55 | 544 | 1.78 | 0.28 | 29.7 |
| 4/26/2015 12:05:42 | 45.28 | 42.88 | 553 | 1.77 | 0.28 | 30.2 |
| 4/26/2015 12:05:42 | 45.60 | 43.20 | 550 | 1.76 | 0.28 | 30.1 |
| 4/26/2015 12:05:43 | 45.93 | 43.53 | 547 | 1.80 | 0.28 | 29.9 |
| 4/26/2015 12:05:44 | 46.26 | 43.86 | 541 | 1.77 | 0.28 | 29.6 |
| 4/26/2015 12:06:27 | 46.59 | 44.19 | 0 | 1.78 | 0.27 | 0.0 |
| 4/26/2015 12:06:28 | 46.92 | 44.52 | 68 | 1.79 | 0.27 | 3.7 |
| 4/26/2015 12:06:28 | 47.24 | 44.84 | 171 | 1.77 | 0.27 | 9.3 |
| 4/26/2015 12:06:29 | 47.57 | 45.17 | 374 | 1.77 | 0.27 | 20.4 |
| 4/26/2015 12:06:30 | 47.90 | 45.50 | 477 | 1.80 | 0.27 | 26.1 |
| 4/26/2015 12:06:30 | 48.23 | 45.83 | 512 | 1.76 | 0.27 | 28.0 |
| 4/26/2015 12:06:31 | 48.56 | 46.16 | 509 | 1.76 | 0.28 | 27.8 |
| 4/26/2015 12:06:32 | 48.88 | 46.48 | 506 | 1.78 | 0.28 | 27.7 |
| 4/26/2015 12:06:33 | 49.21 | 46.81 | 506 | 1.75 | 0.28 | 27.7 |
| 4/26/2015 12:07:20 | 49.54 | 47.14 | 29 | 1.78 | 1.01 | 1.6 |
| 4/26/2015 12:07:37 | 49.87 | 47.47 | 21 | 1.79 | 0.98 | 1.2 |
| 4/26/2015 12:07:53 | 50.20 | 47.80 | 23 | 1.77 | 1.04 | 1.3 |
| 4/26/2015 12:08:07 | 50.53 | 48.13 | 26 | 1.78 | 1.13 | 1.4 |
| 4/26/2015 12:08:20 | 50.85 | 48.45 | 33 | 1.77 | 1.13 | 1.8 |
| 4/26/2015 12:08:30 | 51.18 | 48.78 | 38 | 1.78 | 1.02 | 2.1 |
| 4/26/2015 12:08:39 | 51.43 | 49.03 | 29 | 1.57 | 1.14 | 1.6 |

## H144 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:02:32

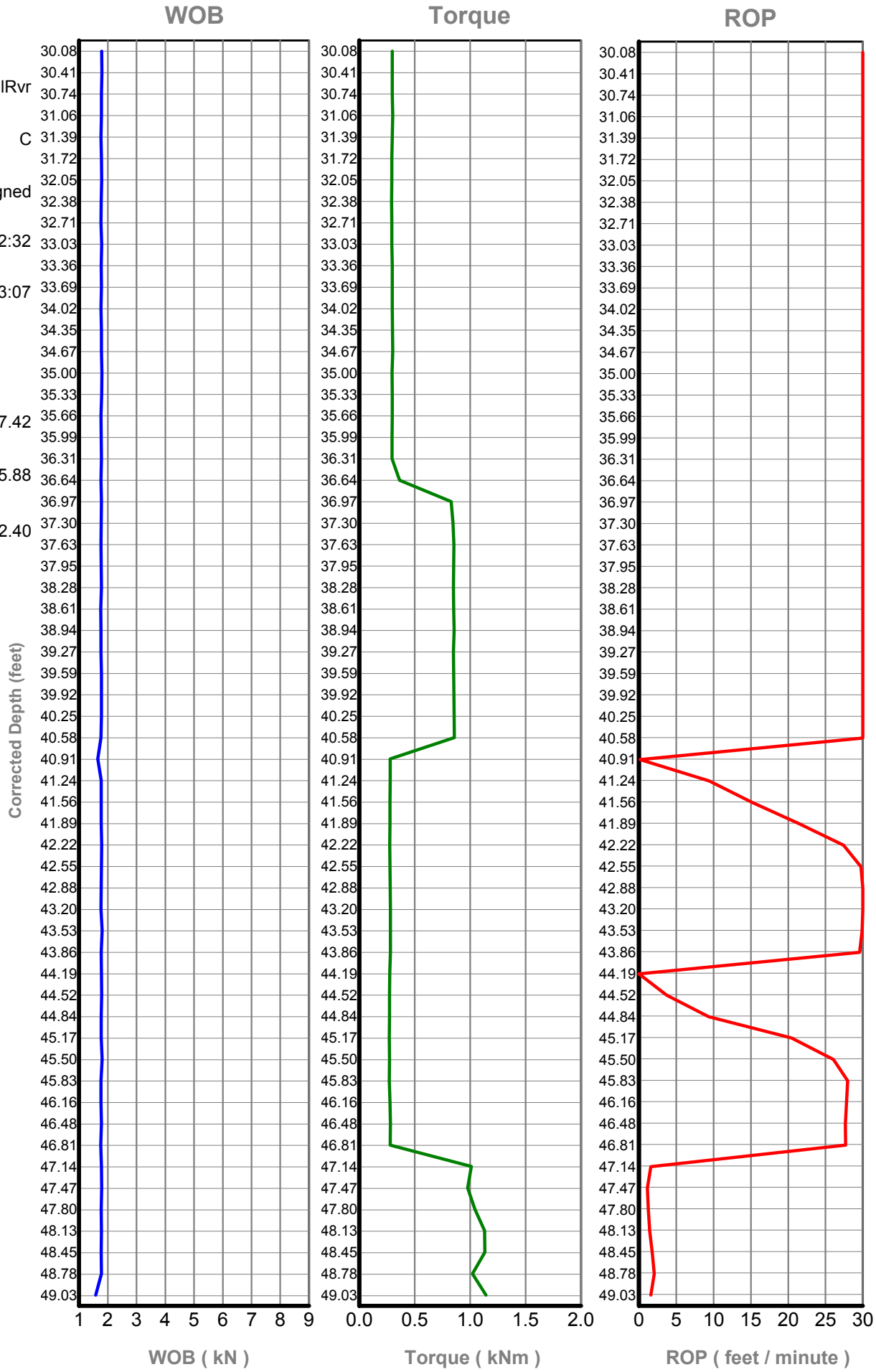
**End Date:**
4/26/2015 12:13:07

**Operator Note:**
'2.4 2.5 C Auto Complete'

**Northing:**
366,227.42

**Easting:**
250,125.88

**Tide (feet):**
2.40



## Hole: H145 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:41:43 | 30.84 | 30.04 | 1,011 | 0.18 | 0.32 | 55.3 |
| 4/26/2015 1:41:44 | 31.17 | 30.37 | 1,011 | 0.18 | 0.32 | 55.3 |
| 4/26/2015 1:41:44 | 31.50 | 30.70 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 1:41:44 | 31.82 | 31.02 | 990 | 0.18 | 0.32 | 54.1 |
| 4/26/2015 1:41:45 | 32.15 | 31.35 | 990 | 0.18 | 0.32 | 54.1 |
| 4/26/2015 1:41:45 | 32.48 | 31.68 | 995 | 0.18 | 0.32 | 54.4 |
| 4/26/2015 1:41:45 | 32.81 | 32.01 | 1,015 | 0.18 | 0.32 | 55.5 |
| 4/26/2015 1:41:46 | 33.14 | 32.34 | 1,015 | 0.18 | 0.32 | 55.5 |
| 4/26/2015 1:41:46 | 33.46 | 32.66 | 1,003 | 0.18 | 0.32 | 54.9 |
| 4/26/2015 1:41:47 | 33.79 | 32.99 | 993 | 0.18 | 0.31 | 54.3 |
| 4/26/2015 1:41:47 | 34.12 | 33.32 | 993 | 0.18 | 0.31 | 54.3 |
| 4/26/2015 1:41:47 | 34.45 | 33.65 | 993 | 0.18 | 0.32 | 54.3 |
| 4/26/2015 1:41:48 | 34.78 | 33.98 | 1,002 | 0.16 | 0.32 | 54.8 |
| 4/26/2015 1:41:51 | 35.11 | 34.31 | 0 | 0.15 | 0.34 | 0.0 |
| 4/26/2015 1:41:52 | 35.43 | 34.63 | 43 | 0.18 | 0.32 | 2.4 |
| 4/26/2015 1:41:52 | 35.76 | 34.96 | 246 | 0.18 | 0.32 | 13.5 |
| 4/26/2015 1:41:53 | 36.09 | 35.29 | 246 | 0.18 | 0.32 | 13.5 |
| 4/26/2015 1:41:53 | 36.42 | 35.62 | 416 | 0.18 | 0.32 | 22.7 |
| 4/26/2015 1:41:53 | 36.75 | 35.95 | 416 | 0.18 | 0.32 | 22.7 |
| 4/26/2015 1:41:54 | 37.07 | 36.27 | 630 | 0.19 | 0.32 | 34.5 |
| 4/26/2015 1:41:54 | 37.40 | 36.60 | 630 | 0.19 | 0.32 | 34.5 |
| 4/26/2015 1:41:54 | 37.73 | 36.93 | 822 | 0.18 | 0.31 | 44.9 |
| 4/26/2015 1:41:55 | 38.06 | 37.26 | 988 | 0.18 | 0.32 | 54.0 |
| 4/26/2015 1:41:56 | 38.39 | 37.59 | 988 | 0.18 | 0.32 | 54.0 |
| 4/26/2015 1:41:55 | 38.71 | 37.91 | 961 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 1:41:56 | 39.04 | 38.24 | 961 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 1:41:56 | 39.37 | 38.57 | 961 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 1:41:57 | 39.70 | 38.90 | 1,007 | 0.18 | 0.31 | 55.1 |
| 4/26/2015 1:41:57 | 40.03 | 39.23 | 985 | 0.18 | 0.31 | 53.8 |
| 4/26/2015 1:41:58 | 40.35 | 39.55 | 985 | 0.18 | 0.31 | 53.8 |
| 4/26/2015 1:41:58 | 40.68 | 39.88 | 1,006 | 0.18 | 0.31 | 55.0 |
| 4/26/2015 1:41:58 | 41.01 | 40.21 | 1,002 | 0.18 | 0.31 | 54.8 |
| 4/26/2015 1:41:59 | 41.34 | 40.54 | 1,002 | 0.18 | 0.31 | 54.8 |
| 4/26/2015 1:41:59 | 41.67 | 40.87 | 1,002 | 0.18 | 0.32 | 54.8 |
| 4/26/2015 1:41:59 | 41.99 | 41.19 | 1,002 | 0.18 | 0.32 | 54.8 |
| 4/26/2015 1:42:00 | 42.32 | 41.52 | 1,002 | 0.18 | 0.32 | 54.8 |
| 4/26/2015 1:42:00 | 42.65 | 41.85 | 999 | 0.14 | 0.32 | 54.6 |
| 4/26/2015 1:42:00 | 42.98 | 42.18 | 1,022 | 0.18 | 0.31 | 55.9 |
| 4/26/2015 1:42:01 | 43.31 | 42.51 | 1,022 | 0.18 | 0.31 | 55.9 |
| 4/26/2015 1:42:01 | 43.64 | 42.84 | 1,007 | 0.18 | 0.31 | 55.1 |
| 4/26/2015 1:42:01 | 43.96 | 43.16 | 980 | 0.18 | 0.32 | 53.6 |
| 4/26/2015 1:42:02 | 44.29 | 43.49 | 980 | 0.18 | 0.32 | 53.6 |
| 4/26/2015 1:42:02 | 44.62 | 43.82 | 980 | 0.18 | 0.32 | 53.6 |
| 4/26/2015 1:42:02 | 44.95 | 44.15 | 1,016 | 0.19 | 0.31 | 55.6 |
| 4/26/2015 1:42:03 | 45.28 | 44.48 | 1,016 | 0.19 | 0.31 | 55.6 |
| 4/26/2015 1:42:03 | 45.60 | 44.80 | 1,016 | 0.19 | 0.31 | 55.6 |
| 4/26/2015 1:42:03 | 45.93 | 45.13 | 997 | 0.18 | 0.30 | 54.5 |
| 4/26/2015 1:42:04 | 46.26 | 45.46 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 1:42:04 | 46.59 | 45.79 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 1:42:04 | 46.92 | 46.12 | 992 | 0.18 | 0.32 | 54.3 |
| 4/26/2015 1:42:05 | 47.24 | 46.44 | 971 | 0.18 | 0.32 | 53.1 |
| 4/26/2015 1:42:05 | 47.57 | 46.77 | 971 | 0.18 | 0.32 | 53.1 |
| 4/26/2015 1:42:05 | 47.90 | 47.10 | 971 | 0.17 | 0.36 | 53.1 |
| 4/26/2015 1:42:26 | 48.23 | 47.43 | 90 | 3.41 | 0.40 | 4.9 |
| 4/26/2015 1:42:34 | 48.56 | 47.76 | 81 | 4.75 | 0.40 | 4.4 |
| 4/26/2015 1:42:39 | 48.88 | 48.08 | 102 | 3.83 | 0.37 | 5.6 |
| 4/26/2015 1:42:42 | 49.21 | 48.41 | 106 | 6.09 | 0.39 | 5.8 |
| 4/26/2015 1:42:47 | 49.54 | 48.74 | 38 | 3.93 | 0.40 | 2.1 |
| 4/26/2015 1:42:55 | 49.87 | 49.07 | 32 | 3.73 | 0.40 | 1.7 |
| 4/26/2015 1:42:59 | 50.20 | 49.40 | 121 | 3.66 | 0.40 | 6.6 |
| 4/26/2015 1:43:02 | 50.53 | 49.73 | 116 | 3.53 | 0.39 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 1:43:05 | 50.85 | 50.05 | 102 | 3.43 | 0.39 | 5.6 |
| 4/26/2015 | 1:43:10 | 51.18 | 50.38 | 74 | 3.97 | 0.40 | 4.0 |
| 4/26/2015 | 1:43:15 | 51.51 | 50.71 | 87 | 3.31 | 0.39 | 4.8 |
| 4/26/2015 | 1:43:19 | 51.84 | 51.04 | 87 | 3.41 | 0.40 | 4.7 |
| 4/26/2015 | 1:43:22 | 52.17 | 51.37 | 109 | 3.46 | 0.39 | 6.0 |
| 4/26/2015 | 1:43:23 | 52.49 | 51.69 | 200 | 3.52 | 0.38 | 10.9 |
| 4/26/2015 | 1:43:24 | 52.82 | 52.02 | 286 | 3.35 | 0.38 | 15.6 |
| 4/26/2015 | 1:43:25 | 53.15 | 52.35 | 332 | 4.72 | 0.38 | 18.2 |
| 4/26/2015 | 1:43:39 | 53.48 | 52.68 | 76 | 3.08 | 0.40 | 4.1 |
| 4/26/2015 | 1:43:45 | 53.81 | 53.01 | 69 | 4.34 | 0.39 | 3.8 |
| 4/26/2015 | 1:43:49 | 54.13 | 53.33 | 86 | 3.64 | 0.39 | 4.7 |
| 4/26/2015 | 1:43:54 | 54.46 | 53.66 | 80 | 3.79 | 0.39 | 4.4 |
| 4/26/2015 | 1:43:59 | 54.79 | 53.99 | 58 | 3.42 | 0.40 | 3.2 |
| 4/26/2015 | 1:44:06 | 55.12 | 54.32 | 50 | 3.39 | 0.40 | 2.7 |
| 4/26/2015 | 1:44:15 | 55.45 | 54.65 | 46 | 3.15 | 0.41 | 2.5 |
| 4/26/2015 | 1:44:21 | 55.77 | 54.97 | 49 | 3.46 | 0.40 | 2.7 |
| 4/26/2015 | 1:44:23 | 55.84 | 55.04 | 49 | 3.98 | 0.41 | 2.7 |

## H145 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:38:47

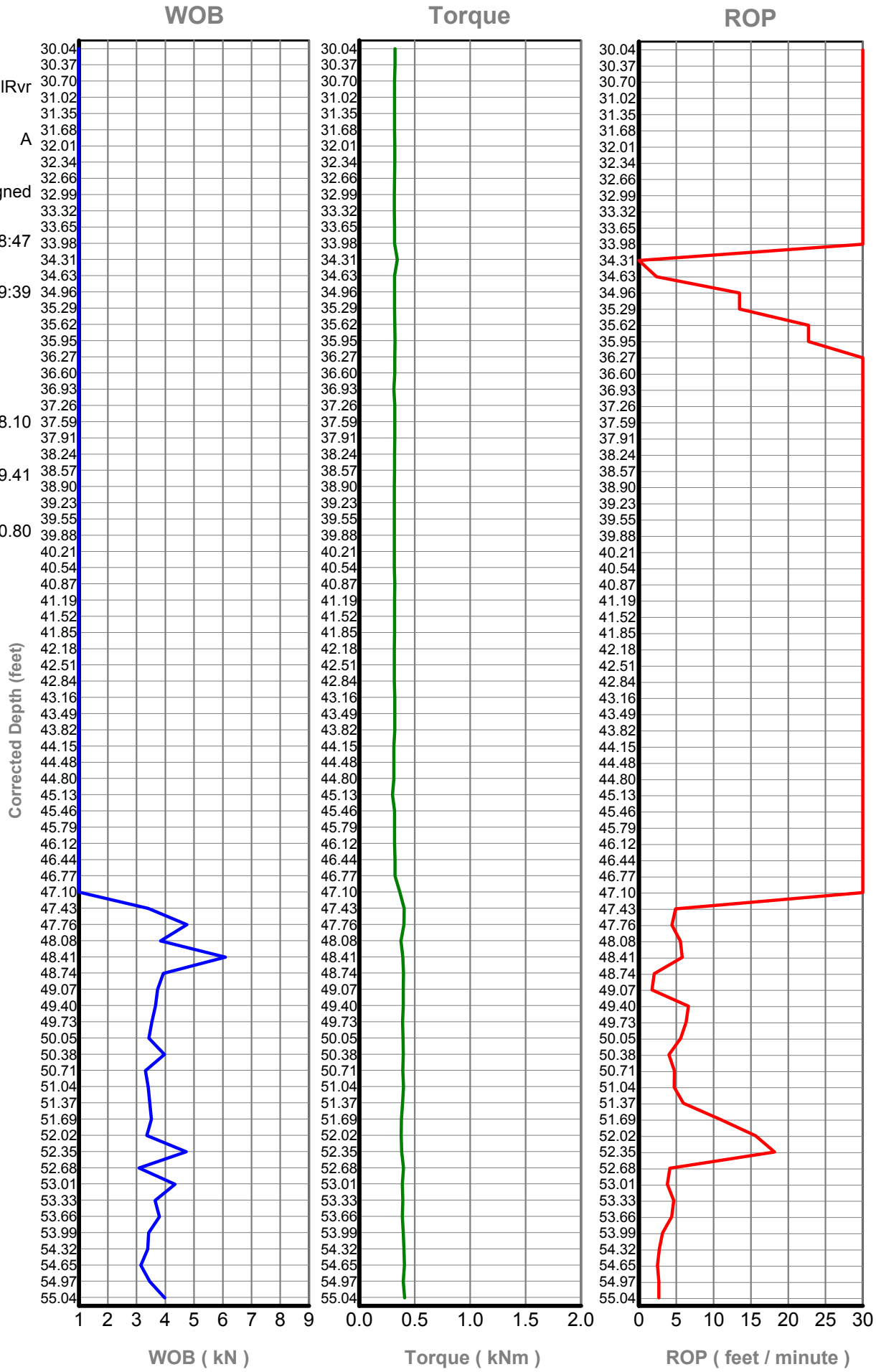
**End Date:**
4/26/2015 1:49:39

**Operator Note:**
'0.8 .8 b Auto Complete'

**Northing:**
366,268.10

**Easting:**
250,199.41

**Tide (feet):**
0.80



## Hole: H146 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:52:10 | 30.84 | 30.04 | 1,035 | 0.90 | 0.32 | 56.6 |
| 4/26/2015 1:52:10 | 31.17 | 30.37 | 1,035 | 0.90 | 0.32 | 56.6 |
| 4/26/2015 1:52:10 | 31.50 | 30.70 | 1,032 | 0.91 | 0.32 | 56.4 |
| 4/26/2015 1:52:11 | 31.82 | 31.02 | 1,029 | 0.91 | 0.31 | 56.3 |
| 4/26/2015 1:52:12 | 32.15 | 31.35 | 1,029 | 0.91 | 0.31 | 56.3 |
| 4/26/2015 1:52:12 | 32.48 | 31.68 | 1,044 | 0.90 | 0.31 | 57.1 |
| 4/26/2015 1:52:12 | 32.81 | 32.01 | 1,035 | 0.91 | 0.32 | 56.6 |
| 4/26/2015 1:52:13 | 33.14 | 32.34 | 1,035 | 0.91 | 0.32 | 56.6 |
| 4/26/2015 1:52:13 | 33.46 | 32.66 | 1,041 | 0.92 | 0.32 | 56.9 |
| 4/26/2015 1:52:13 | 33.79 | 32.99 | 1,041 | 0.92 | 0.32 | 56.9 |
| 4/26/2015 1:52:13 | 34.12 | 33.32 | 1,041 | 0.90 | 0.32 | 56.9 |
| 4/26/2015 1:52:14 | 34.45 | 33.65 | 1,049 | 0.91 | 0.32 | 57.4 |
| 4/26/2015 1:52:14 | 34.78 | 33.98 | 1,049 | 0.91 | 0.32 | 57.4 |
| 4/26/2015 1:52:14 | 35.11 | 34.31 | 1,037 | 0.91 | 0.31 | 56.7 |
| 4/26/2015 1:52:15 | 35.43 | 34.63 | 1,043 | 0.91 | 0.32 | 57.1 |
| 4/26/2015 1:52:15 | 35.76 | 34.96 | 1,043 | 0.91 | 0.32 | 57.1 |
| 4/26/2015 1:52:15 | 36.09 | 35.29 | 1,038 | 0.18 | 0.32 | 56.7 |
| 4/26/2015 1:52:16 | 36.42 | 35.62 | 1,041 | 0.18 | 0.31 | 56.9 |
| 4/26/2015 1:52:16 | 36.75 | 35.95 | 1,041 | 0.18 | 0.31 | 56.9 |
| 4/26/2015 1:52:16 | 37.07 | 36.27 | 1,024 | 0.18 | 0.32 | 56.0 |
| 4/26/2015 1:52:17 | 37.40 | 36.60 | 1,034 | 0.19 | 0.32 | 56.5 |
| 4/26/2015 1:52:17 | 37.73 | 36.93 | 1,034 | 0.19 | 0.32 | 56.5 |
| 4/26/2015 1:52:17 | 38.06 | 37.26 | 1,018 | 0.18 | 0.32 | 55.7 |
| 4/26/2015 1:52:18 | 38.39 | 37.59 | 1,030 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 1:52:18 | 38.71 | 37.91 | 1,030 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 1:52:18 | 39.04 | 38.24 | 1,027 | 0.18 | 0.32 | 56.2 |
| 4/26/2015 1:52:19 | 39.37 | 38.57 | 1,036 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 1:52:19 | 39.70 | 38.90 | 1,036 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 1:52:19 | 40.03 | 39.23 | 1,020 | 0.19 | 0.31 | 55.8 |
| 4/26/2015 1:52:20 | 40.35 | 39.55 | 1,038 | 0.18 | 0.31 | 56.8 |
| 4/26/2015 1:52:20 | 40.68 | 39.88 | 1,038 | 0.18 | 0.31 | 56.8 |
| 4/26/2015 1:52:20 | 41.01 | 40.21 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 1:52:21 | 41.34 | 40.54 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/26/2015 1:52:22 | 41.67 | 40.87 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/26/2015 1:52:22 | 41.99 | 41.19 | 1,032 | 0.19 | 0.32 | 56.4 |
| 4/26/2015 1:52:22 | 42.32 | 41.52 | 1,041 | 0.19 | 0.31 | 56.9 |
| 4/26/2015 1:52:23 | 42.65 | 41.85 | 1,041 | 0.19 | 0.31 | 56.9 |
| 4/26/2015 1:52:23 | 42.98 | 42.18 | 1,035 | 0.19 | 0.32 | 56.6 |
| 4/26/2015 1:52:23 | 43.31 | 42.51 | 1,029 | 0.18 | 0.31 | 56.3 |
| 4/26/2015 1:52:24 | 43.64 | 42.84 | 1,029 | 0.18 | 0.31 | 56.3 |
| 4/26/2015 1:52:24 | 43.96 | 43.16 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/26/2015 1:52:24 | 44.29 | 43.49 | 1,038 | 0.19 | 0.31 | 56.8 |
| 4/26/2015 1:52:25 | 44.62 | 43.82 | 1,038 | 0.19 | 0.31 | 56.8 |
| 4/26/2015 1:52:25 | 44.95 | 44.15 | 1,029 | 0.18 | 0.28 | 56.3 |
| 4/26/2015 1:52:25 | 45.28 | 44.48 | 1,032 | 0.19 | 0.32 | 56.4 |
| 4/26/2015 1:52:26 | 45.60 | 44.80 | 1,032 | 0.19 | 0.32 | 56.4 |
| 4/26/2015 1:52:26 | 45.93 | 45.13 | 1,029 | 0.19 | 0.32 | 56.3 |
| 4/26/2015 1:52:26 | 46.26 | 45.46 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 1:52:27 | 46.59 | 45.79 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 1:52:27 | 46.92 | 46.12 | 1,023 | 0.17 | 0.35 | 56.0 |
| 4/26/2015 1:52:49 | 47.24 | 46.44 | 61 | 4.81 | 0.38 | 3.3 |
| 4/26/2015 1:52:51 | 47.57 | 46.77 | 199 | 4.72 | 0.38 | 10.9 |
| 4/26/2015 1:52:53 | 47.90 | 47.10 | 234 | 3.06 | 0.38 | 12.8 |
| 4/26/2015 1:52:58 | 48.23 | 47.43 | 94 | 2.97 | 0.38 | 5.1 |
| 4/26/2015 1:53:01 | 48.56 | 47.76 | 52 | 2.93 | 0.40 | 2.9 |
| 4/26/2015 1:53:11 | 48.88 | 48.08 | 29 | 3.07 | 0.40 | 1.6 |
| 4/26/2015 1:53:21 | 49.21 | 48.41 | 97 | 2.88 | 0.39 | 5.3 |
| 4/26/2015 1:53:23 | 49.54 | 48.74 | 184 | 2.71 | 0.39 | 10.1 |
| 4/26/2015 1:53:26 | 49.87 | 49.07 | 99 | 3.64 | 0.40 | 5.4 |
| 4/26/2015 1:53:31 | 50.20 | 49.40 | 69 | 3.14 | 0.39 | 3.8 |
| 4/26/2015 1:53:32 | 50.53 | 49.73 | 153 | 3.38 | 0.39 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 1:53:36 | 50.85 | 50.05 | 118 | 3.65 | 0.39 | 6.5 |
| 4/26/2015 | 1:53:40 | 51.18 | 50.38 | 73 | 3.81 | 0.40 | 4.0 |
| 4/26/2015 | 1:53:45 | 51.51 | 50.71 | 74 | 3.42 | 0.40 | 4.0 |
| 4/26/2015 | 1:53:49 | 51.84 | 51.04 | 85 | 3.52 | 0.40 | 4.7 |
| 4/26/2015 | 1:53:53 | 52.17 | 51.37 | 78 | 3.54 | 0.40 | 4.3 |
| 4/26/2015 | 1:53:59 | 52.49 | 51.69 | 72 | 3.60 | 0.40 | 4.0 |
| 4/26/2015 | 1:54:04 | 52.82 | 52.02 | 64 | 3.90 | 0.40 | 3.5 |
| 4/26/2015 | 1:54:09 | 53.15 | 52.35 | 85 | 3.34 | 0.40 | 4.7 |
| 4/26/2015 | 1:54:12 | 53.48 | 52.68 | 89 | 3.14 | 0.40 | 4.9 |
| 4/26/2015 | 1:54:17 | 53.81 | 53.01 | 92 | 3.20 | 0.40 | 5.0 |
| 4/26/2015 | 1:54:21 | 54.13 | 53.33 | 88 | 2.99 | 0.40 | 4.8 |
| 4/26/2015 | 1:54:25 | 54.46 | 53.66 | 72 | 3.57 | 0.40 | 3.9 |
| 4/26/2015 | 1:54:30 | 54.79 | 53.99 | 88 | 3.58 | 0.40 | 4.8 |
| 4/26/2015 | 1:54:34 | 55.12 | 54.32 | 87 | 4.08 | 0.39 | 4.8 |
| 4/26/2015 | 1:54:39 | 55.45 | 54.65 | 76 | 3.47 | 0.40 | 4.1 |
| 4/26/2015 | 1:54:44 | 55.77 | 54.97 | 62 | 3.62 | 0.40 | 3.4 |
| 4/26/2015 | 1:54:46 | 55.89 | 55.09 | 69 | 4.85 | 0.41 | 3.8 |

## H146 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:49:45

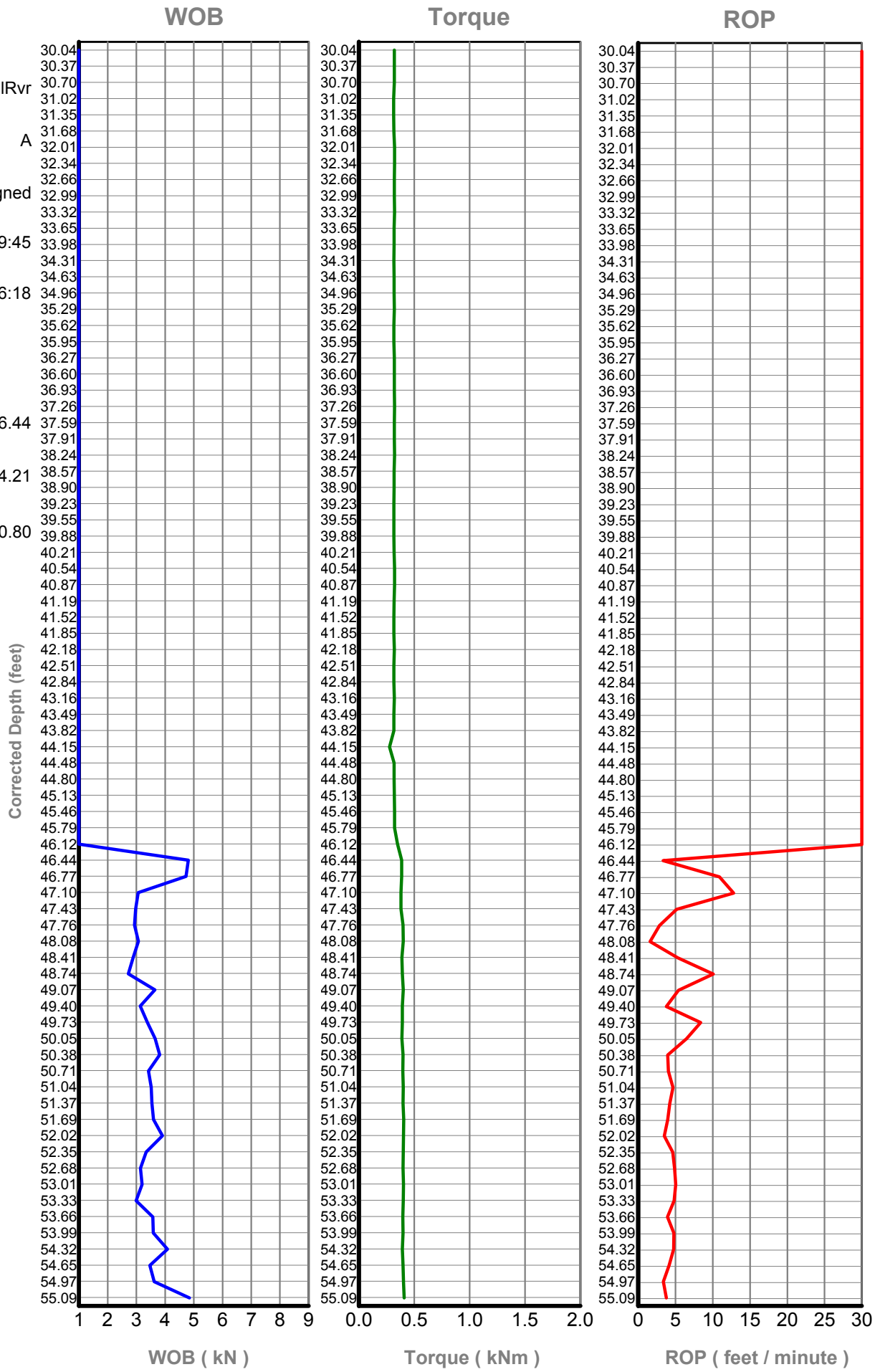
**End Date:**
4/26/2015 1:56:18

**Operator Note:**
'0.8 .8 b Auto Complete'

**Northing:**
366,306.44

**Easting:**
250,244.21

**Tide (feet):**
0.80



## Hole: H147 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 1:45:05 | 30.84 | 30.04 | 500 | 1.81 | 0.16 | 27.4 |
| 4/26/2015 1:45:06 | 31.17 | 30.37 | 500 | 1.81 | 0.16 | 27.4 |
| 4/26/2015 1:45:07 | 31.50 | 30.70 | 503 | 1.80 | 0.16 | 27.5 |
| 4/26/2015 1:45:07 | 31.82 | 31.02 | 500 | 1.81 | 0.16 | 27.4 |
| 4/26/2015 1:45:08 | 32.15 | 31.35 | 503 | 1.79 | 0.16 | 27.5 |
| 4/26/2015 1:45:09 | 32.48 | 31.68 | 492 | 1.73 | 0.16 | 26.9 |
| 4/26/2015 1:45:09 | 32.81 | 32.01 | 499 | 1.84 | 0.16 | 27.3 |
| 4/26/2015 1:45:10 | 33.14 | 32.34 | 502 | 1.78 | 0.16 | 27.5 |
| 4/26/2015 1:45:11 | 33.46 | 32.66 | 497 | 1.81 | 0.16 | 27.2 |
| 4/26/2015 1:45:11 | 33.79 | 32.99 | 508 | 1.79 | 0.16 | 27.8 |
| 4/26/2015 1:45:12 | 34.12 | 33.32 | 500 | 1.78 | 0.16 | 27.4 |
| 4/26/2015 1:45:13 | 34.45 | 33.65 | 503 | 1.80 | 0.16 | 27.5 |
| 4/26/2015 1:45:14 | 34.78 | 33.98 | 503 | 1.81 | 0.16 | 27.5 |
| 4/26/2015 1:45:15 | 35.11 | 34.31 | 497 | 1.81 | 0.16 | 27.2 |
| 4/26/2015 1:45:15 | 35.43 | 34.63 | 501 | 1.79 | 0.16 | 27.4 |
| 4/26/2015 1:45:16 | 35.76 | 34.96 | 504 | 1.80 | 0.16 | 27.5 |
| 4/26/2015 1:45:17 | 36.09 | 35.29 | 498 | 1.80 | 0.16 | 27.2 |
| 4/26/2015 1:45:17 | 36.42 | 35.62 | 506 | 1.80 | 0.16 | 27.7 |
| 4/26/2015 1:45:18 | 36.75 | 35.95 | 500 | 1.82 | 0.16 | 27.3 |
| 4/26/2015 1:45:19 | 37.07 | 36.27 | 500 | 1.79 | 0.16 | 27.3 |
| 4/26/2015 1:45:19 | 37.40 | 36.60 | 503 | 1.80 | 0.16 | 27.5 |
| 4/26/2015 1:45:20 | 37.73 | 36.93 | 506 | 1.81 | 0.16 | 27.7 |
| 4/26/2015 1:45:21 | 38.06 | 37.26 | 500 | 1.80 | 0.16 | 27.4 |
| 4/26/2015 1:45:21 | 38.39 | 37.59 | 492 | 1.81 | 0.16 | 26.9 |
| 4/26/2015 1:45:23 | 38.71 | 37.91 | 489 | 1.78 | 0.16 | 26.8 |
| 4/26/2015 1:45:23 | 39.04 | 38.24 | 491 | 1.81 | 0.16 | 26.8 |
| 4/26/2015 1:45:24 | 39.37 | 38.57 | 491 | 1.79 | 0.16 | 26.8 |
| 4/26/2015 1:45:25 | 39.70 | 38.90 | 494 | 1.75 | 0.16 | 27.0 |
| 4/26/2015 1:45:25 | 40.03 | 39.23 | 505 | 1.82 | 0.16 | 27.6 |
| 4/26/2015 1:45:26 | 40.35 | 39.55 | 505 | 1.80 | 0.16 | 27.6 |
| 4/26/2015 1:45:27 | 40.68 | 39.88 | 497 | 1.81 | 0.16 | 27.2 |
| 4/26/2015 1:45:27 | 41.01 | 40.21 | 503 | 1.81 | 0.16 | 27.5 |
| 4/26/2015 1:45:28 | 41.34 | 40.54 | 503 | 1.80 | 0.16 | 27.5 |
| 4/26/2015 1:45:29 | 41.67 | 40.87 | 503 | 1.79 | 0.16 | 27.5 |
| 4/26/2015 1:45:29 | 41.99 | 41.19 | 483 | 1.81 | 0.16 | 26.4 |
| 4/26/2015 1:45:30 | 42.32 | 41.52 | 497 | 1.81 | 0.16 | 27.2 |
| 4/26/2015 1:45:31 | 42.65 | 41.85 | 497 | 1.79 | 0.16 | 27.2 |
| 4/26/2015 1:45:31 | 42.98 | 42.18 | 491 | 1.80 | 0.16 | 26.9 |
| 4/26/2015 1:45:33 | 43.31 | 42.51 | 490 | 1.81 | 0.17 | 26.8 |
| 4/26/2015 1:45:33 | 43.64 | 42.84 | 499 | 1.81 | 0.16 | 27.3 |
| 4/26/2015 1:45:34 | 43.96 | 43.16 | 501 | 1.80 | 0.16 | 27.4 |
| 4/26/2015 1:45:35 | 44.29 | 43.49 | 487 | 1.80 | 0.16 | 26.6 |
| 4/26/2015 1:45:35 | 44.62 | 43.82 | 487 | 1.81 | 0.16 | 26.6 |
| 4/26/2015 1:46:16 | 44.95 | 44.15 | 31 | 1.73 | 1.23 | 1.7 |
| 4/26/2015 1:46:17 | 45.28 | 44.48 | 177 | 1.76 | 1.29 | 9.7 |
| 4/26/2015 1:46:24 | 45.60 | 44.80 | 0 | 1.81 | 1.16 | 0.0 |
| 4/26/2015 1:46:25 | 45.93 | 45.13 | 147 | 1.80 | 1.36 | 8.0 |
| 4/26/2015 1:46:27 | 46.26 | 45.46 | 194 | 1.77 | 1.23 | 10.6 |
| 4/26/2015 1:46:43 | 46.59 | 45.79 | 0 | 1.80 | 1.11 | 0.0 |
| 4/26/2015 1:46:45 | 46.92 | 46.12 | 148 | 1.77 | 1.11 | 8.1 |
| 4/26/2015 1:46:47 | 47.24 | 46.44 | 200 | 1.74 | 1.21 | 11.0 |
| 4/26/2015 1:46:59 | 47.57 | 46.77 | 64 | 1.75 | 1.14 | 3.5 |
| 4/26/2015 1:47:01 | 47.90 | 47.10 | 196 | 1.74 | 1.11 | 10.7 |
| 4/26/2015 1:47:27 | 48.23 | 47.43 | 6 | 1.76 | 1.11 | 0.3 |
| 4/26/2015 1:47:29 | 48.56 | 47.76 | 116 | 1.77 | 1.11 | 6.4 |
| 4/26/2015 1:47:31 | 48.88 | 48.08 | 176 | 1.78 | 1.13 | 9.6 |
| 4/26/2015 1:47:33 | 49.21 | 48.41 | 150 | 1.78 | 1.15 | 8.2 |
| 4/26/2015 1:47:35 | 49.54 | 48.74 | 169 | 1.74 | 1.09 | 9.3 |
| 4/26/2015 1:48:01 | 49.87 | 49.07 | 0 | 1.78 | 1.39 | 0.0 |
| 4/26/2015 1:48:03 | 50.20 | 49.40 | 144 | 1.79 | 1.17 | 7.9 |
| 4/26/2015 1:48:06 | 50.53 | 49.73 | 119 | 1.79 | 1.26 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 1:48:12 | 50.85 | 50.05 | 61 | 1.80 | 1.18 | 3.3 |
| 4/26/2015 | 1:48:18 | 51.18 | 50.38 | 52 | 1.79 | 1.13 | 2.8 |
| 4/26/2015 | 1:48:26 | 51.51 | 50.71 | 45 | 1.81 | 1.09 | 2.5 |
| 4/26/2015 | 1:48:32 | 51.79 | 50.99 | 43 | 1.80 | 1.13 | 2.4 |

## H147 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 1:43:13

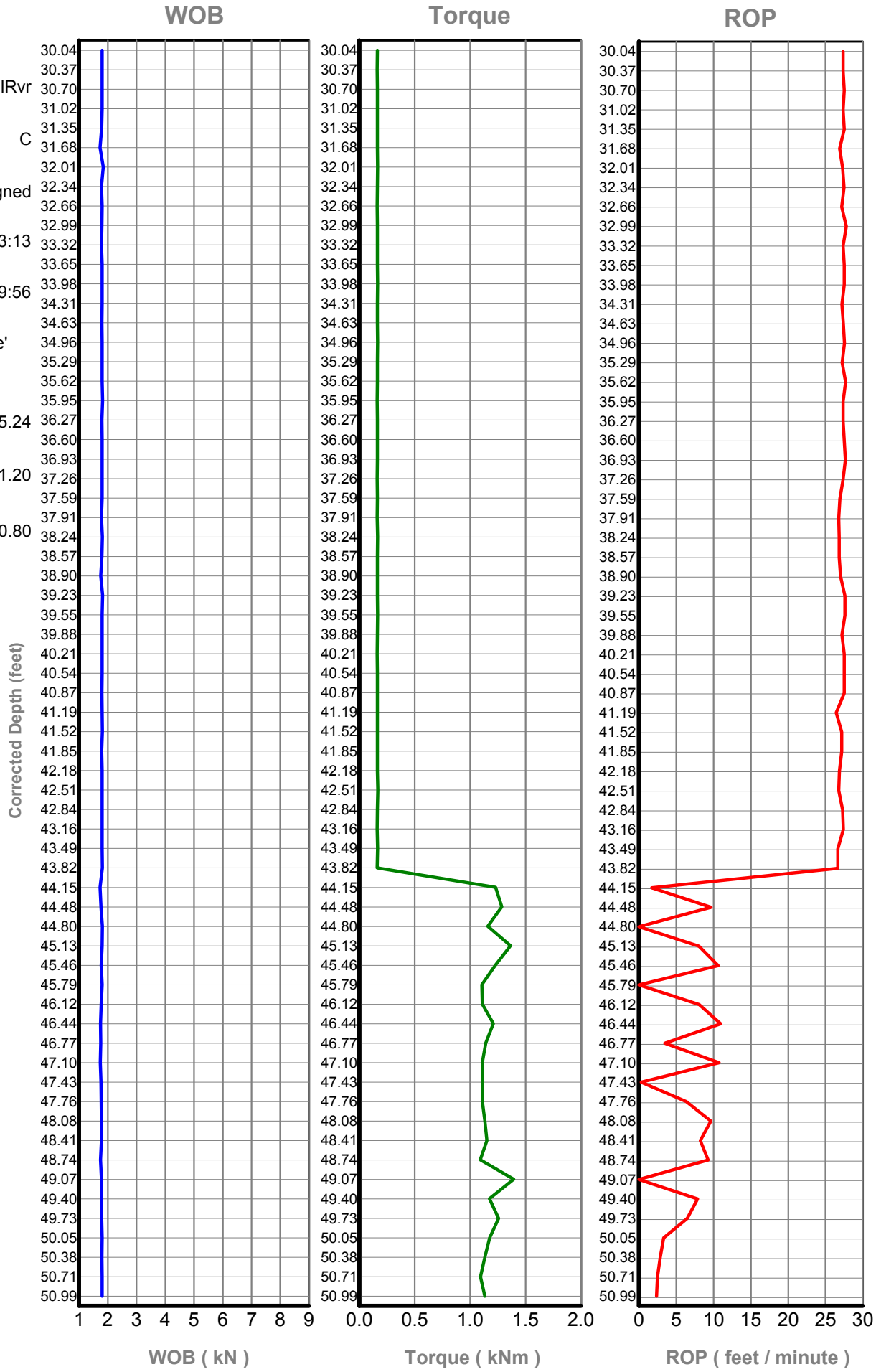
**End Date:**
4/26/2015 1:49:56

**Operator Note:**
'0.8 0.8 c Auto Complete'

**Northing:**
366,355.24

**Easting:**
250,301.20

**Tide (feet):**
0.80



## Hole: H148 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:41:34 | 34.12 | 30.32 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 21:41:34 | 34.45 | 30.65 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 21:41:34 | 34.78 | 30.98 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 21:41:35 | 35.11 | 31.31 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:36 | 35.43 | 31.63 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:36 | 35.76 | 31.96 | 1,038 | 0.18 | 0.32 | 56.8 |
| 4/25/2015 21:41:36 | 36.09 | 32.29 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 21:41:37 | 36.42 | 32.62 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 21:41:37 | 36.75 | 32.95 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 21:41:37 | 37.07 | 33.27 | 1,017 | 0.18 | 0.32 | 55.6 |
| 4/25/2015 21:41:38 | 37.40 | 33.60 | 1,017 | 0.18 | 0.32 | 55.6 |
| 4/25/2015 21:41:38 | 37.73 | 33.93 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 21:41:38 | 38.06 | 34.26 | 1,018 | 0.18 | 0.31 | 55.6 |
| 4/25/2015 21:41:39 | 38.39 | 34.59 | 1,018 | 0.18 | 0.31 | 55.6 |
| 4/25/2015 21:41:39 | 38.71 | 34.91 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 21:41:39 | 39.04 | 35.24 | 1,023 | 0.19 | 0.32 | 56.0 |
| 4/25/2015 21:41:40 | 39.37 | 35.57 | 1,023 | 0.19 | 0.32 | 56.0 |
| 4/25/2015 21:41:40 | 39.70 | 35.90 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 21:41:40 | 40.03 | 36.23 | 1,035 | 0.18 | 0.31 | 56.6 |
| 4/25/2015 21:41:41 | 40.35 | 36.55 | 1,035 | 0.18 | 0.31 | 56.6 |
| 4/25/2015 21:41:41 | 40.68 | 36.88 | 1,038 | 0.19 | 0.32 | 56.7 |
| 4/25/2015 21:41:41 | 41.01 | 37.21 | 1,034 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:42 | 41.34 | 37.54 | 1,034 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:42 | 41.67 | 37.87 | 1,044 | 0.18 | 0.32 | 57.1 |
| 4/25/2015 21:41:42 | 41.99 | 38.19 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:43 | 42.32 | 38.52 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:43 | 42.65 | 38.85 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:43 | 42.98 | 39.18 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:44 | 43.31 | 39.51 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:44 | 43.64 | 39.84 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 21:41:44 | 43.96 | 40.16 | 1,033 | 0.18 | 0.31 | 56.5 |
| 4/25/2015 21:41:45 | 44.29 | 40.49 | 1,033 | 0.18 | 0.31 | 56.5 |
| 4/25/2015 21:41:45 | 44.62 | 40.82 | 1,038 | 0.17 | 0.31 | 56.8 |
| 4/25/2015 21:41:45 | 44.95 | 41.15 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:46 | 45.28 | 41.48 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:46 | 45.60 | 41.80 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 21:41:47 | 45.93 | 42.13 | 1,045 | 0.18 | 0.32 | 57.1 |
| 4/25/2015 21:41:47 | 46.26 | 42.46 | 1,045 | 0.18 | 0.32 | 57.1 |
| 4/25/2015 21:41:47 | 46.59 | 42.79 | 1,020 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 21:41:48 | 46.92 | 43.12 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 21:41:48 | 47.24 | 43.44 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 21:41:48 | 47.57 | 43.77 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 21:41:49 | 47.90 | 44.10 | 1,018 | 0.18 | 0.32 | 55.7 |
| 4/25/2015 21:41:49 | 48.23 | 44.43 | 1,018 | 0.18 | 0.32 | 55.7 |
| 4/25/2015 21:41:49 | 48.56 | 44.76 | 1,015 | 0.20 | 0.32 | 55.5 |
| 4/25/2015 21:41:50 | 48.88 | 45.08 | 1,015 | 0.20 | 0.32 | 55.5 |
| 4/25/2015 21:41:50 | 49.21 | 45.41 | 1,015 | 0.20 | 0.32 | 55.5 |
| 4/25/2015 21:41:50 | 49.54 | 45.74 | 1,025 | 0.17 | 0.34 | 56.0 |
| 4/25/2015 21:42:11 | 49.87 | 46.07 | 20 | 5.21 | 0.39 | 1.1 |
| 4/25/2015 21:42:15 | 50.20 | 46.40 | 59 | 5.02 | 0.40 | 3.2 |
| 4/25/2015 21:42:22 | 50.53 | 46.73 | 35 | 4.40 | 0.39 | 1.9 |
| 4/25/2015 21:42:27 | 50.85 | 47.05 | 72 | 4.10 | 0.38 | 4.0 |
| 4/25/2015 21:42:28 | 51.18 | 47.38 | 142 | 3.28 | 0.38 | 7.8 |
| 4/25/2015 21:42:30 | 51.51 | 47.71 | 240 | 3.18 | 0.39 | 13.1 |
| 4/25/2015 21:42:36 | 51.84 | 48.04 | 0 | 2.97 | 0.37 | 0.0 |
| 4/25/2015 21:42:40 | 52.17 | 48.37 | 84 | 3.20 | 0.40 | 4.6 |
| 4/25/2015 21:42:45 | 52.49 | 48.69 | 51 | 2.89 | 0.40 | 2.8 |
| 4/25/2015 21:42:56 | 52.82 | 49.02 | 32 | 3.84 | 0.41 | 1.7 |
| 4/25/2015 21:43:06 | 53.15 | 49.35 | 87 | 2.95 | 0.40 | 4.8 |
| 4/25/2015 21:43:10 | 53.48 | 49.68 | 84 | 4.01 | 0.40 | 4.6 |
| 4/25/2015 21:43:13 | 53.81 | 50.01 | 136 | 3.37 | 0.39 | 7.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/25/2015 21:43:16 | 54.13 | 50.33 | 93 | 3.55 | 0.40 | 5.1 |
| 4/25/2015 21:43:20 | 54.46 | 50.66 | 98 | 3.80 | 0.37 | 5.4 |
| 4/25/2015 21:43:26 | 54.79 | 50.99 | 58 | 3.69 | 0.40 | 3.2 |
| 4/25/2015 21:43:31 | 55.12 | 51.32 | 84 | 3.45 | 0.39 | 4.6 |
| 4/25/2015 21:43:36 | 55.45 | 51.65 | 61 | 3.67 | 0.40 | 3.4 |
| 4/25/2015 21:43:39 | 55.77 | 51.97 | 94 | 3.60 | 0.40 | 5.1 |
| 4/25/2015 21:43:44 | 56.10 | 52.30 | 90 | 3.70 | 0.40 | 4.9 |
| 4/25/2015 21:43:47 | 56.43 | 52.63 | 100 | 3.51 | 0.40 | 5.4 |
| 4/25/2015 21:43:52 | 56.76 | 52.96 | 77 | 3.41 | 0.36 | 4.2 |
| 4/25/2015 21:43:56 | 57.09 | 53.29 | 81 | 3.71 | 0.40 | 4.4 |
| 4/25/2015 21:44:00 | 57.41 | 53.61 | 92 | 3.89 | 0.41 | 5.0 |
| 4/25/2015 21:44:05 | 57.74 | 53.94 | 69 | 3.65 | 0.40 | 3.8 |
| 4/25/2015 21:44:09 | 58.07 | 54.27 | 81 | 3.94 | 0.40 | 4.4 |
| 4/25/2015 21:44:15 | 58.40 | 54.60 | 63 | 3.26 | 0.40 | 3.4 |
| 4/25/2015 21:44:20 | 58.73 | 54.93 | 70 | 3.52 | 0.40 | 3.8 |
| 4/25/2015 21:44:26 | 58.98 | 55.18 | 49 | 4.03 | 0.41 | 2.7 |

## H148 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 21:40:49

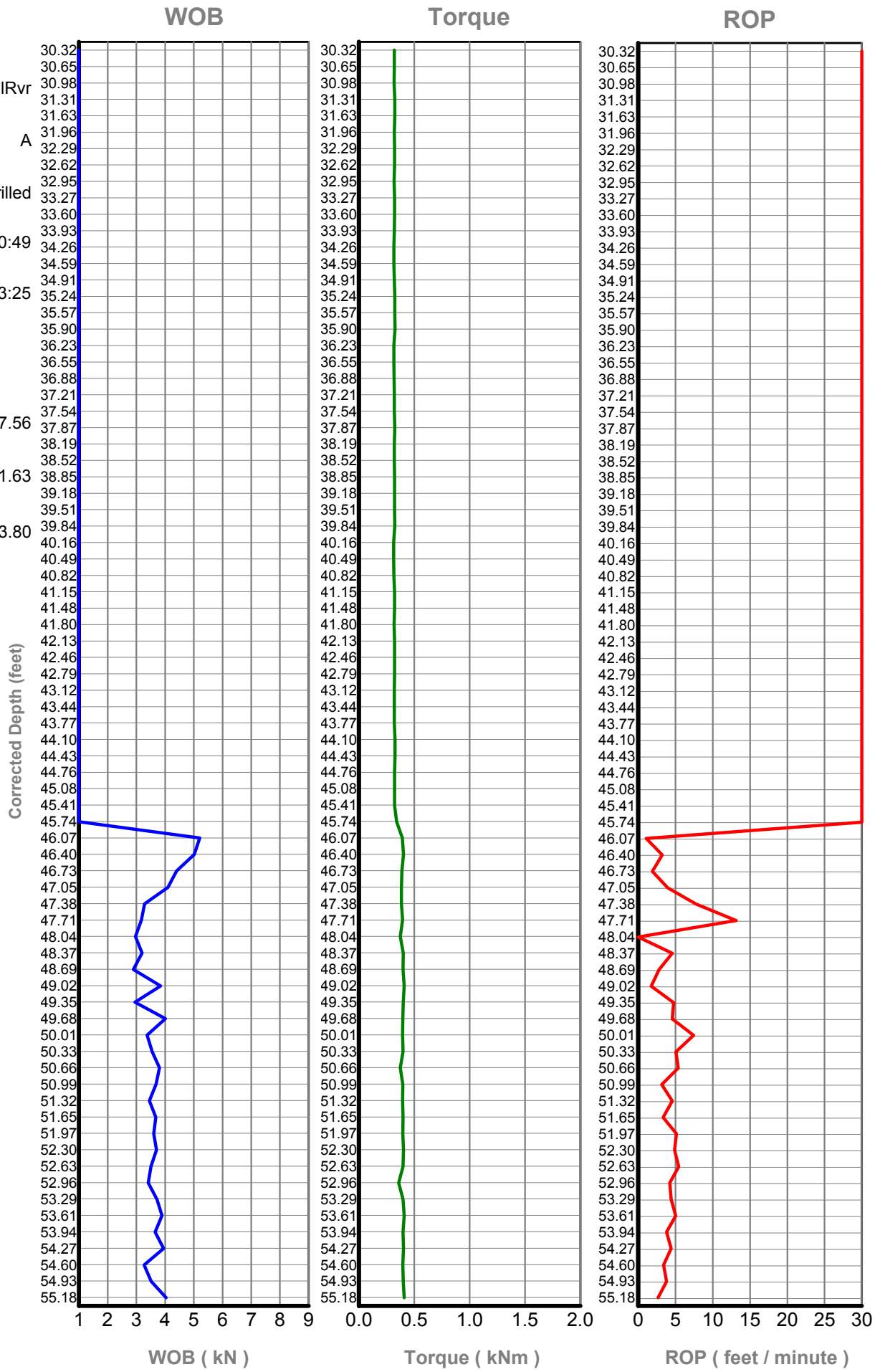
**End Date:**
4/25/2015 22:13:25

**Operator Note:**
'3.8 4 b Auto Complete'

**Northing:**
366,417.56

**Easting:**
250,371.63

**Tide (feet):**
3.80



## Hole: H149 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:47:15 | 33.79 | 30.09 | 616 | 1.79 | 0.17 | 33.7 |
| 4/25/2015 21:47:16 | 34.12 | 30.42 | 612 | 1.81 | 0.17 | 33.5 |
| 4/25/2015 21:47:16 | 34.45 | 30.75 | 613 | 1.81 | 0.17 | 33.5 |
| 4/25/2015 21:47:17 | 34.78 | 31.08 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:17 | 35.11 | 31.41 | 613 | 1.80 | 0.17 | 33.5 |
| 4/25/2015 21:47:18 | 35.43 | 31.73 | 613 | 1.81 | 0.16 | 33.5 |
| 4/25/2015 21:47:18 | 35.76 | 32.06 | 617 | 1.79 | 0.17 | 33.7 |
| 4/25/2015 21:47:19 | 36.09 | 32.39 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:20 | 36.42 | 32.72 | 613 | 1.81 | 0.17 | 33.5 |
| 4/25/2015 21:47:20 | 36.75 | 33.05 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:21 | 37.07 | 33.37 | 613 | 1.77 | 0.16 | 33.5 |
| 4/25/2015 21:47:22 | 37.40 | 33.70 | 613 | 1.77 | 0.16 | 33.5 |
| 4/25/2015 21:47:22 | 37.73 | 34.03 | 609 | 1.78 | 0.17 | 33.3 |
| 4/25/2015 21:47:23 | 38.06 | 34.36 | 613 | 1.81 | 0.17 | 33.5 |
| 4/25/2015 21:47:23 | 38.39 | 34.69 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:24 | 38.71 | 35.01 | 613 | 1.78 | 0.17 | 33.5 |
| 4/25/2015 21:47:25 | 39.04 | 35.34 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:25 | 39.37 | 35.67 | 610 | 1.82 | 0.17 | 33.4 |
| 4/25/2015 21:47:26 | 39.70 | 36.00 | 610 | 1.80 | 0.17 | 33.4 |
| 4/25/2015 21:47:26 | 40.03 | 36.33 | 606 | 1.80 | 0.16 | 33.1 |
| 4/25/2015 21:47:27 | 40.35 | 36.65 | 609 | 1.79 | 0.17 | 33.3 |
| 4/25/2015 21:47:27 | 40.68 | 36.98 | 610 | 1.77 | 0.17 | 33.4 |
| 4/25/2015 21:47:28 | 41.01 | 37.31 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 21:47:28 | 41.34 | 37.64 | 613 | 1.79 | 0.17 | 33.5 |
| 4/25/2015 21:47:29 | 41.67 | 37.97 | 614 | 1.81 | 0.17 | 33.6 |
| 4/25/2015 21:47:30 | 41.99 | 38.29 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 21:47:30 | 42.32 | 38.62 | 606 | 1.78 | 0.17 | 33.1 |
| 4/25/2015 21:47:31 | 42.65 | 38.95 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 21:47:32 | 42.98 | 39.28 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 21:47:32 | 43.31 | 39.61 | 610 | 1.78 | 0.17 | 33.4 |
| 4/25/2015 21:47:33 | 43.64 | 39.94 | 607 | 1.80 | 0.17 | 33.2 |
| 4/25/2015 21:47:33 | 43.96 | 40.26 | 610 | 1.80 | 0.17 | 33.4 |
| 4/25/2015 21:47:34 | 44.29 | 40.59 | 607 | 1.78 | 0.17 | 33.2 |
| 4/25/2015 21:47:35 | 44.62 | 40.92 | 603 | 1.78 | 0.17 | 33.0 |
| 4/25/2015 21:47:35 | 44.95 | 41.25 | 613 | 1.78 | 0.17 | 33.5 |
| 4/25/2015 21:47:36 | 45.28 | 41.58 | 610 | 1.79 | 0.17 | 33.4 |
| 4/25/2015 21:47:36 | 45.60 | 41.90 | 607 | 1.83 | 0.17 | 33.2 |
| 4/25/2015 21:47:37 | 45.93 | 42.23 | 607 | 1.81 | 0.17 | 33.2 |
| 4/25/2015 21:47:37 | 46.26 | 42.56 | 610 | 1.78 | 0.17 | 33.4 |
| 4/25/2015 21:47:38 | 46.59 | 42.89 | 600 | 1.78 | 0.17 | 32.8 |
| 4/25/2015 21:47:39 | 46.92 | 43.22 | 607 | 1.77 | 0.17 | 33.2 |
| 4/25/2015 21:47:39 | 47.24 | 43.54 | 610 | 1.80 | 0.17 | 33.4 |
| 4/25/2015 21:47:40 | 47.57 | 43.87 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 21:47:40 | 47.90 | 44.20 | 607 | 1.78 | 0.17 | 33.2 |
| 4/25/2015 21:47:41 | 48.23 | 44.53 | 607 | 1.79 | 0.17 | 33.2 |
| 4/25/2015 21:47:42 | 48.56 | 44.86 | 601 | 1.78 | 0.17 | 32.9 |
| 4/25/2015 21:47:42 | 48.88 | 45.18 | 601 | 1.80 | 0.17 | 32.9 |
| 4/25/2015 21:47:43 | 49.21 | 45.51 | 601 | 1.79 | 0.17 | 32.9 |
| 4/25/2015 21:47:44 | 49.54 | 45.84 | 603 | 1.78 | 0.17 | 32.9 |
| 4/25/2015 21:48:10 | 49.87 | 46.17 | 57 | 1.79 | 1.25 | 3.1 |
| 4/25/2015 21:48:11 | 50.20 | 46.50 | 215 | 1.74 | 1.19 | 11.7 |
| 4/25/2015 21:48:19 | 50.53 | 46.83 | 101 | 1.80 | 1.22 | 5.5 |
| 4/25/2015 21:48:33 | 50.85 | 47.15 | 47 | 1.81 | 1.18 | 2.6 |
| 4/25/2015 21:48:43 | 51.18 | 47.48 | 35 | 1.81 | 1.09 | 1.9 |
| 4/25/2015 21:48:53 | 51.51 | 47.81 | 39 | 1.80 | 1.16 | 2.2 |
| 4/25/2015 21:49:00 | 51.74 | 48.04 | 30 | 1.81 | 1.16 | 1.7 |

## H149 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 21:45:38

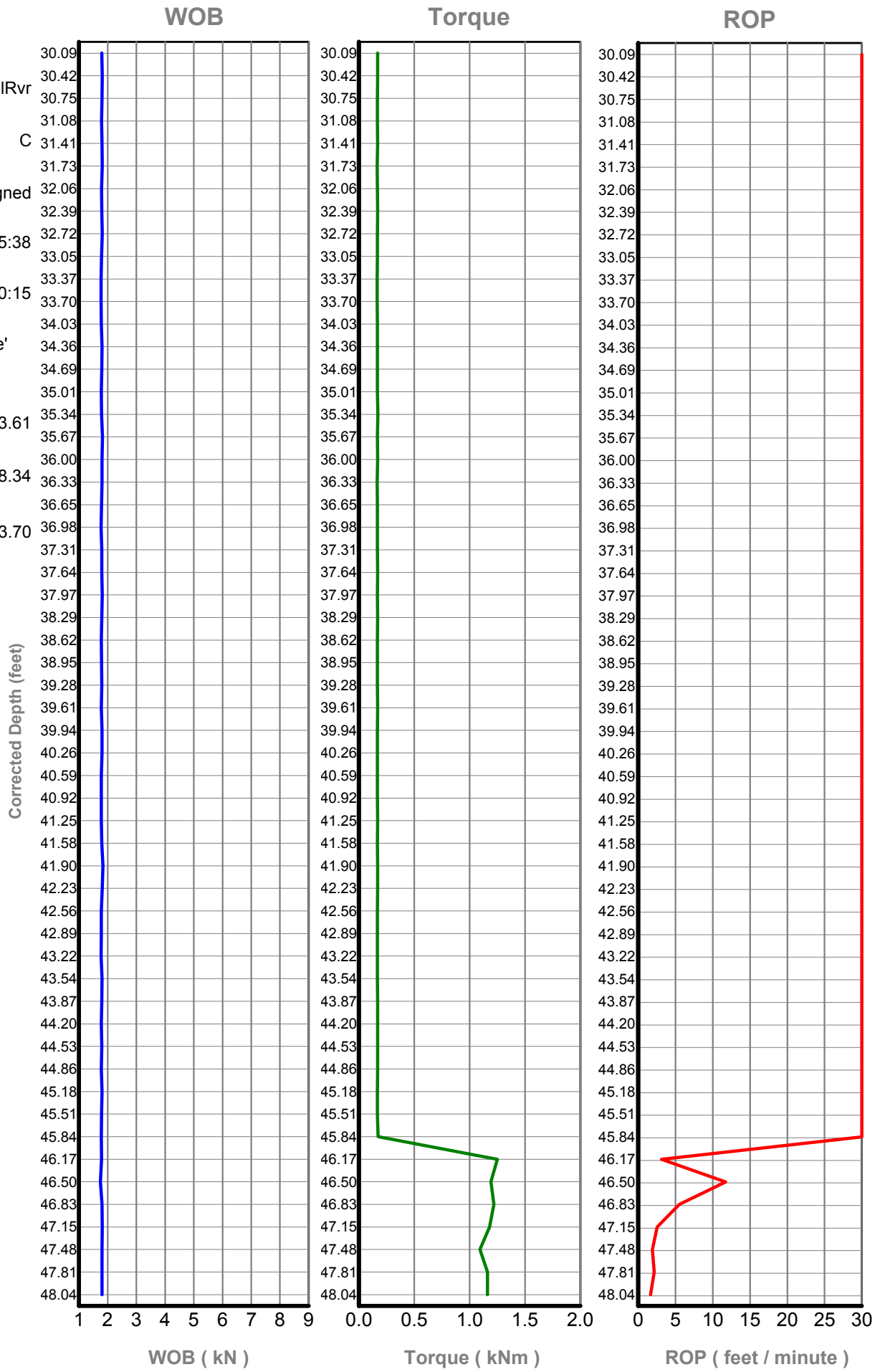
**End Date:**
4/25/2015 21:50:15

**Operator Note:**
'3.7 4.0 c Auto Complete'

**Northing:**
366,453.61

**Easting:**
250,418.34

**Tide (feet):**
3.70



## Hole: H15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:23:29 | 31.50 | 30.30 | 612 | 1.76 | 0.28 | 33.4 |
| 4/26/2015 13:23:30 | 31.82 | 30.62 | 612 | 1.75 | 0.28 | 33.4 |
| 4/26/2015 13:23:30 | 32.15 | 30.95 | 616 | 1.75 | 0.29 | 33.7 |
| 4/26/2015 13:23:31 | 32.48 | 31.28 | 609 | 1.76 | 0.28 | 33.3 |
| 4/26/2015 13:23:31 | 32.81 | 31.61 | 612 | 1.76 | 0.28 | 33.5 |
| 4/26/2015 13:23:32 | 33.14 | 31.94 | 626 | 1.76 | 0.28 | 34.2 |
| 4/26/2015 13:23:33 | 33.46 | 32.26 | 616 | 1.76 | 0.29 | 33.7 |
| 4/26/2015 13:23:33 | 33.79 | 32.59 | 625 | 1.77 | 0.28 | 34.2 |
| 4/26/2015 13:23:34 | 34.12 | 32.92 | 616 | 1.76 | 0.28 | 33.7 |
| 4/26/2015 13:23:34 | 34.45 | 33.25 | 619 | 1.77 | 0.28 | 33.8 |
| 4/26/2015 13:23:35 | 34.78 | 33.58 | 613 | 1.77 | 0.28 | 33.5 |
| 4/26/2015 13:23:35 | 35.11 | 33.91 | 623 | 1.76 | 0.28 | 34.1 |
| 4/26/2015 13:23:36 | 35.43 | 34.23 | 617 | 1.74 | 0.28 | 33.8 |
| 4/26/2015 13:23:36 | 35.76 | 34.56 | 628 | 1.75 | 0.28 | 34.3 |
| 4/26/2015 13:23:37 | 36.09 | 34.89 | 617 | 1.77 | 0.28 | 33.8 |
| 4/26/2015 13:23:38 | 36.42 | 35.22 | 620 | 1.78 | 0.28 | 33.9 |
| 4/26/2015 13:23:39 | 36.75 | 35.55 | 607 | 1.78 | 0.28 | 33.2 |
| 4/26/2015 13:23:39 | 37.07 | 35.87 | 603 | 1.77 | 0.29 | 33.0 |
| 4/26/2015 13:23:40 | 37.40 | 36.20 | 603 | 1.78 | 0.29 | 32.9 |
| 4/26/2015 13:23:40 | 37.73 | 36.53 | 603 | 1.76 | 0.29 | 32.9 |
| 4/26/2015 13:23:41 | 38.06 | 36.86 | 603 | 1.76 | 0.29 | 32.9 |
| 4/26/2015 13:23:41 | 38.39 | 37.19 | 609 | 1.77 | 0.29 | 33.3 |
| 4/26/2015 13:23:42 | 38.71 | 37.51 | 629 | 1.76 | 0.28 | 34.4 |
| 4/26/2015 13:23:42 | 39.04 | 37.84 | 622 | 1.74 | 0.29 | 34.0 |
| 4/26/2015 13:23:43 | 39.37 | 38.17 | 617 | 1.76 | 0.29 | 33.7 |
| 4/26/2015 13:23:44 | 39.70 | 38.50 | 615 | 1.75 | 0.29 | 33.6 |
| 4/26/2015 13:23:44 | 40.03 | 38.83 | 601 | 1.76 | 0.29 | 32.8 |
| 4/26/2015 13:23:45 | 40.35 | 39.15 | 608 | 1.77 | 0.29 | 33.3 |
| 4/26/2015 13:23:45 | 40.68 | 39.48 | 608 | 1.75 | 0.29 | 33.3 |
| 4/26/2015 13:23:46 | 41.01 | 39.81 | 625 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 13:23:46 | 41.34 | 40.14 | 622 | 1.76 | 0.29 | 34.0 |
| 4/26/2015 13:23:47 | 41.67 | 40.47 | 618 | 1.76 | 0.29 | 33.8 |
| 4/26/2015 13:23:48 | 41.99 | 40.79 | 612 | 1.76 | 0.29 | 33.5 |
| 4/26/2015 13:24:01 | 42.32 | 41.12 | 61 | 1.74 | 1.14 | 3.3 |
| 4/26/2015 13:24:02 | 42.65 | 41.45 | 176 | 1.72 | 1.11 | 9.6 |
| 4/26/2015 13:24:12 | 42.98 | 41.78 | 0 | 1.75 | 0.98 | 0.0 |
| 4/26/2015 13:24:14 | 43.31 | 42.11 | 182 | 1.64 | 1.13 | 10.0 |
| 4/26/2015 13:24:15 | 43.64 | 42.44 | 280 | 1.74 | 1.21 | 15.3 |
| 4/26/2015 13:24:32 | 43.96 | 42.76 | 66 | 1.73 | 1.11 | 3.6 |
| 4/26/2015 13:24:43 | 44.29 | 43.09 | 0 | 1.72 | 1.29 | 0.0 |
| 4/26/2015 13:25:25 | 44.62 | 43.42 | 12 | 1.72 | 1.47 | 0.6 |
| 4/26/2015 13:25:37 | 44.95 | 43.75 | 87 | 1.73 | 1.03 | 4.8 |
| 4/26/2015 13:25:39 | 45.28 | 44.08 | 259 | 1.76 | 1.01 | 14.1 |
| 4/26/2015 13:25:39 | 45.60 | 44.40 | 298 | 1.74 | 1.09 | 16.3 |
| 4/26/2015 13:26:07 | 45.93 | 44.73 | 0 | 1.72 | 1.46 | 0.0 |
| 4/26/2015 13:26:08 | 46.26 | 45.06 | 115 | 1.70 | 1.25 | 6.3 |
| 4/26/2015 13:26:40 | 46.59 | 45.39 | 17 | 1.72 | 1.50 | 0.9 |
| 4/26/2015 13:26:41 | 46.92 | 45.72 | 122 | 1.73 | 1.07 | 6.6 |
| 4/26/2015 13:26:42 | 47.24 | 46.04 | 275 | 1.74 | 0.93 | 15.0 |
| 4/26/2015 13:26:43 | 47.57 | 46.37 | 286 | 1.74 | 0.94 | 15.6 |
| 4/26/2015 13:26:45 | 47.90 | 46.70 | 266 | 1.72 | 1.15 | 14.5 |
| 4/26/2015 13:27:18 | 48.23 | 47.03 | 0 | 1.70 | 1.47 | 0.0 |
| 4/26/2015 13:27:19 | 48.56 | 47.36 | 119 | 1.70 | 1.09 | 6.5 |
| 4/26/2015 13:27:21 | 48.88 | 47.68 | 272 | 1.72 | 1.16 | 14.9 |
| 4/26/2015 13:27:22 | 49.21 | 48.01 | 261 | 1.73 | 1.30 | 14.3 |
| 4/26/2015 13:27:52 | 49.54 | 48.34 | 0 | 1.72 | 1.13 | 0.0 |
| 4/26/2015 13:27:57 | 49.87 | 48.67 | 43 | 1.78 | 1.06 | 2.4 |
| 4/26/2015 13:28:05 | 50.20 | 49.00 | 46 | 1.78 | 1.11 | 2.5 |
| 4/26/2015 13:28:13 | 50.53 | 49.33 | 43 | 1.77 | 1.01 | 2.4 |
| 4/26/2015 13:28:18 | 50.85 | 49.65 | 63 | 1.79 | 1.03 | 3.5 |
| 4/26/2015 13:28:25 | 51.09 | 49.89 | 35 | 1.78 | 1.19 | 1.9 |

## H15 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:21:49

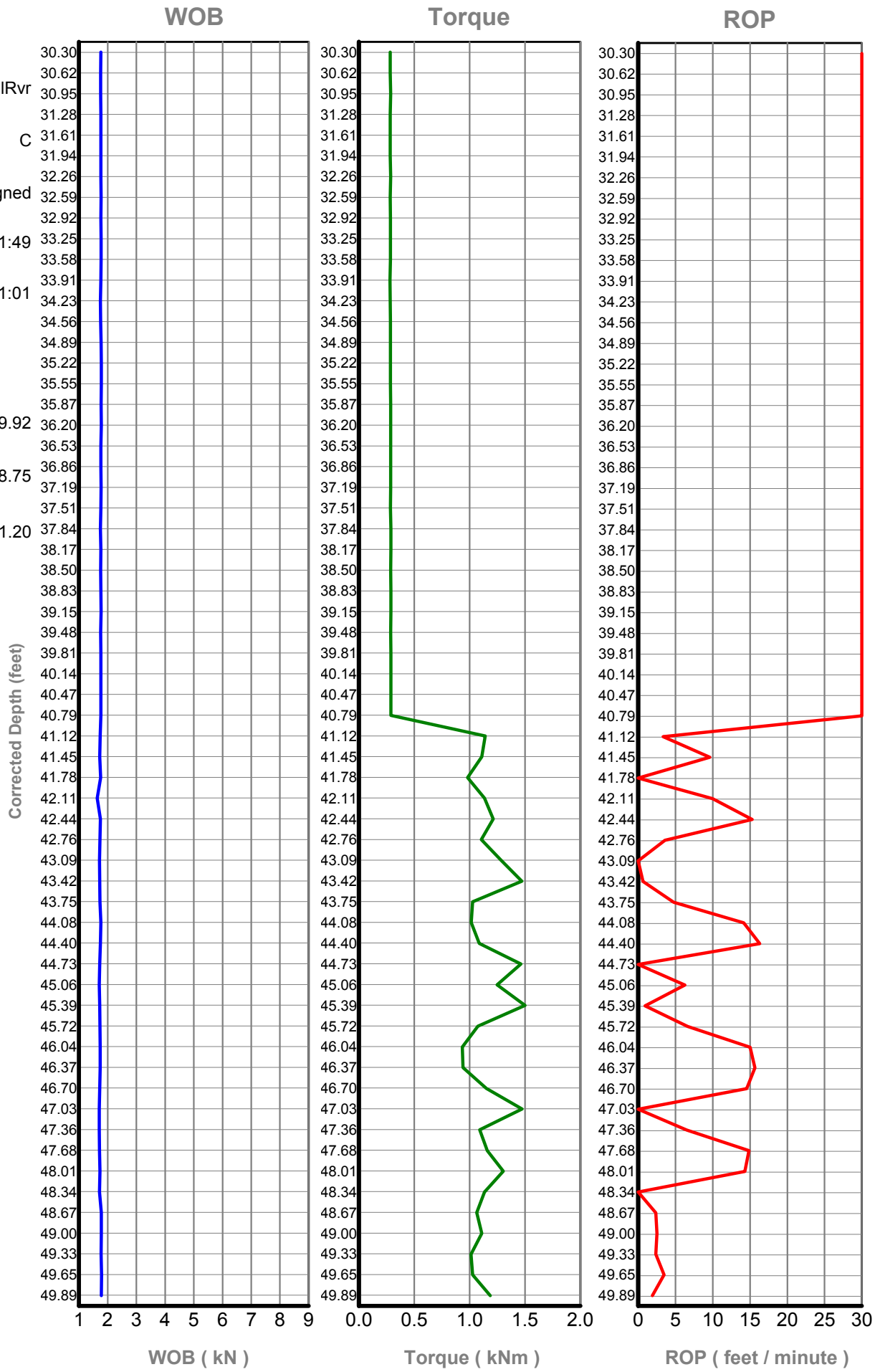
**End Date:**
4/26/2015 13:31:01

**Operator Note:**
'1.2 1.3 C Auto Complete'

**Northing:**
366,249.92

**Easting:**
249,808.75

**Tide (feet):**
1.20



## Hole: H150 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:54:50 | 33.79 | 30.09 | 573 | 1.82 | 0.17 | 31.3 |
| 4/25/2015 21:54:51 | 34.12 | 30.42 | 573 | 1.80 | 0.17 | 31.3 |
| 4/25/2015 21:54:52 | 34.45 | 30.75 | 569 | 1.81 | 0.17 | 31.1 |
| 4/25/2015 21:54:52 | 34.78 | 31.08 | 569 | 1.81 | 0.17 | 31.1 |
| 4/25/2015 21:54:53 | 35.11 | 31.41 | 562 | 1.81 | 0.17 | 30.7 |
| 4/25/2015 21:54:53 | 35.43 | 31.73 | 562 | 1.82 | 0.17 | 30.7 |
| 4/25/2015 21:54:54 | 35.76 | 32.06 | 574 | 1.81 | 0.18 | 31.4 |
| 4/25/2015 21:54:54 | 36.09 | 32.39 | 574 | 1.81 | 0.17 | 31.4 |
| 4/25/2015 21:54:55 | 36.42 | 32.72 | 567 | 1.81 | 0.17 | 31.0 |
| 4/25/2015 21:54:56 | 36.75 | 33.05 | 570 | 1.81 | 0.17 | 31.2 |
| 4/25/2015 21:54:56 | 37.07 | 33.37 | 570 | 1.80 | 0.17 | 31.2 |
| 4/25/2015 21:54:57 | 37.40 | 33.70 | 579 | 1.81 | 0.17 | 31.7 |
| 4/25/2015 21:54:57 | 37.73 | 34.03 | 582 | 1.80 | 0.17 | 31.8 |
| 4/25/2015 21:54:59 | 38.06 | 34.36 | 583 | 1.81 | 0.17 | 31.9 |
| 4/25/2015 21:54:59 | 38.39 | 34.69 | 571 | 1.81 | 0.17 | 31.2 |
| 4/25/2015 21:55:00 | 38.71 | 35.01 | 571 | 1.80 | 0.17 | 31.2 |
| 4/25/2015 21:55:00 | 39.04 | 35.34 | 571 | 1.80 | 0.17 | 31.2 |
| 4/25/2015 21:55:01 | 39.37 | 35.67 | 571 | 1.81 | 0.17 | 31.2 |
| 4/25/2015 21:55:02 | 39.70 | 36.00 | 574 | 1.80 | 0.17 | 31.4 |
| 4/25/2015 21:55:02 | 40.03 | 36.33 | 581 | 1.81 | 0.17 | 31.8 |
| 4/25/2015 21:55:03 | 40.35 | 36.65 | 560 | 1.82 | 0.17 | 30.6 |
| 4/25/2015 21:55:03 | 40.68 | 36.98 | 560 | 1.81 | 0.17 | 30.6 |
| 4/25/2015 21:55:04 | 41.01 | 37.31 | 568 | 1.81 | 0.17 | 31.1 |
| 4/25/2015 21:55:05 | 41.34 | 37.64 | 562 | 1.79 | 0.16 | 30.7 |
| 4/25/2015 21:55:05 | 41.67 | 37.97 | 568 | 1.80 | 0.17 | 31.1 |
| 4/25/2015 21:55:06 | 41.99 | 38.29 | 587 | 1.82 | 0.16 | 32.1 |
| 4/25/2015 21:55:06 | 42.32 | 38.62 | 564 | 1.81 | 0.17 | 30.8 |
| 4/25/2015 21:55:07 | 42.65 | 38.95 | 564 | 1.81 | 0.17 | 30.8 |
| 4/25/2015 21:55:08 | 42.98 | 39.28 | 571 | 1.80 | 0.16 | 31.2 |
| 4/25/2015 21:55:08 | 43.31 | 39.61 | 564 | 1.81 | 0.17 | 30.8 |
| 4/25/2015 21:55:09 | 43.64 | 39.94 | 564 | 1.81 | 0.16 | 30.9 |
| 4/25/2015 21:55:10 | 43.96 | 40.26 | 576 | 1.81 | 0.17 | 31.5 |
| 4/25/2015 21:55:10 | 44.29 | 40.59 | 570 | 1.81 | 0.17 | 31.1 |
| 4/25/2015 21:55:11 | 44.62 | 40.92 | 575 | 1.81 | 0.17 | 31.5 |
| 4/25/2015 21:55:12 | 44.95 | 41.25 | 572 | 1.81 | 0.17 | 31.3 |
| 4/25/2015 21:55:12 | 45.28 | 41.58 | 572 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 21:55:13 | 45.60 | 41.90 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 21:55:13 | 45.93 | 42.23 | 572 | 1.81 | 0.17 | 31.3 |
| 4/25/2015 21:55:14 | 46.26 | 42.56 | 566 | 1.79 | 0.17 | 31.0 |
| 4/25/2015 21:55:15 | 46.59 | 42.89 | 570 | 1.80 | 0.16 | 31.2 |
| 4/25/2015 21:55:15 | 46.92 | 43.22 | 573 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 21:55:16 | 47.24 | 43.54 | 570 | 1.79 | 0.16 | 31.2 |
| 4/25/2015 21:55:16 | 47.57 | 43.87 | 573 | 1.79 | 0.17 | 31.3 |
| 4/25/2015 21:55:17 | 47.90 | 44.20 | 573 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 21:55:18 | 48.23 | 44.53 | 567 | 1.76 | 0.17 | 31.0 |
| 4/25/2015 21:55:53 | 48.56 | 44.86 | 75 | 1.79 | 1.12 | 4.1 |
| 4/25/2015 21:55:57 | 48.88 | 45.18 | 43 | 1.75 | 1.14 | 2.3 |
| 4/25/2015 21:56:07 | 49.21 | 45.51 | 76 | 1.76 | 1.14 | 4.2 |
| 4/25/2015 21:56:09 | 49.54 | 45.84 | 206 | 1.81 | 1.20 | 11.3 |
| 4/25/2015 21:56:20 | 49.87 | 46.17 | 23 | 1.80 | 1.12 | 1.3 |
| 4/25/2015 21:56:34 | 50.20 | 46.50 | 26 | 1.81 | 1.12 | 1.4 |
| 4/25/2015 21:56:47 | 50.53 | 46.83 | 26 | 1.81 | 1.13 | 1.4 |
| 4/25/2015 21:56:50 | 50.60 | 46.90 | 29 | 1.80 | 1.19 | 1.6 |

## H150 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 21:53:07

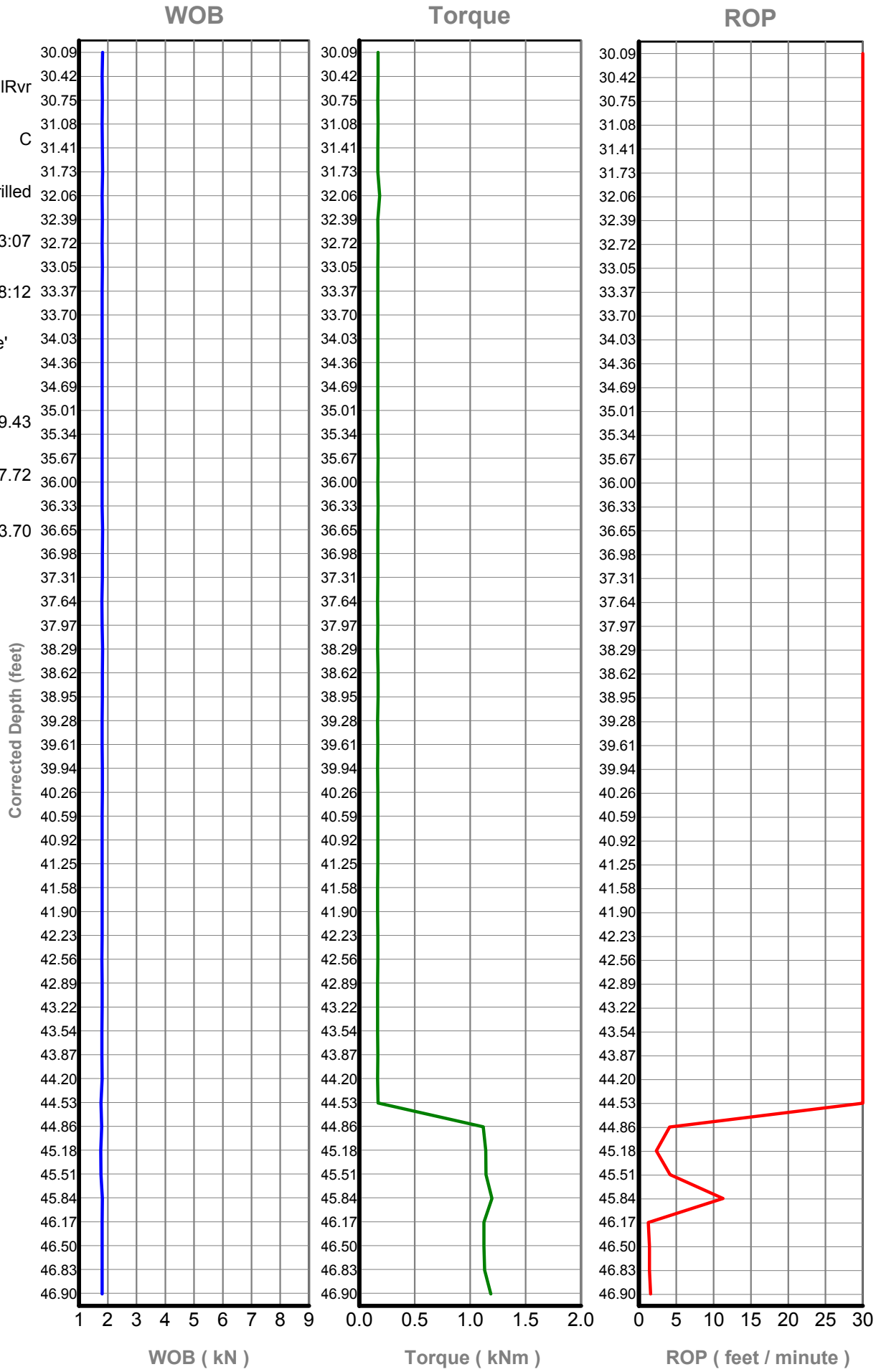
**End Date:**
4/25/2015 21:58:12

**Operator Note:**
'3.7 3.8 c Auto Complete'

**Northing:**
366,499.43

**Easting:**
250,477.72

**Tide (feet):**
3.70



## Hole: H151 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:48:09 | 30.84 | 30.04 | 1,036 | 0.32 | 0.31 | 56.7 |
| 4/25/2015 12:48:09 | 31.17 | 30.37 | 1,036 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 12:48:09 | 31.50 | 30.70 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 12:48:10 | 31.82 | 31.02 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 12:48:10 | 32.15 | 31.35 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 12:48:11 | 32.48 | 31.68 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 12:48:10 | 32.81 | 32.01 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 12:48:11 | 33.14 | 32.34 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 12:48:12 | 33.46 | 32.66 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 12:48:12 | 33.79 | 32.99 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 12:48:12 | 34.12 | 33.32 | 1,037 | 0.25 | 0.32 | 56.7 |
| 4/25/2015 12:48:13 | 34.45 | 33.65 | 1,037 | 0.25 | 0.32 | 56.7 |
| 4/25/2015 12:48:13 | 34.78 | 33.98 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/25/2015 12:48:13 | 35.11 | 34.31 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/25/2015 12:48:14 | 35.43 | 34.63 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/25/2015 12:48:14 | 35.76 | 34.96 | 1,071 | 0.31 | 0.32 | 58.5 |
| 4/25/2015 12:48:14 | 36.09 | 35.29 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 12:48:15 | 36.42 | 35.62 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 12:48:15 | 36.75 | 35.95 | 1,069 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 12:48:15 | 37.07 | 36.27 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 12:48:16 | 37.40 | 36.60 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 12:48:16 | 37.73 | 36.93 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 12:48:16 | 38.06 | 37.26 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 12:48:17 | 38.39 | 37.59 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 12:48:17 | 38.71 | 37.91 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 12:48:17 | 39.04 | 38.24 | 1,039 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 12:48:18 | 39.37 | 38.57 | 1,039 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 12:48:18 | 39.70 | 38.90 | 1,045 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 12:48:18 | 40.03 | 39.23 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 12:48:19 | 40.35 | 39.55 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 12:48:19 | 40.68 | 39.88 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 12:48:19 | 41.01 | 40.21 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 12:48:19 | 41.34 | 40.54 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 12:48:20 | 41.67 | 40.87 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 12:48:20 | 41.99 | 41.19 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 12:48:20 | 42.32 | 41.52 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 12:48:21 | 42.65 | 41.85 | 1,040 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 12:48:21 | 42.98 | 42.18 | 1,040 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 12:48:21 | 43.31 | 42.51 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 12:48:22 | 43.64 | 42.84 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 12:48:23 | 43.96 | 43.16 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 12:48:23 | 44.29 | 43.49 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 12:48:23 | 44.62 | 43.82 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 12:48:24 | 44.95 | 44.15 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 12:48:36 | 45.28 | 44.48 | 0 | 5.89 | 0.40 | 0.0 |
| 4/25/2015 12:48:40 | 45.60 | 44.80 | 49 | 3.52 | 0.37 | 2.7 |
| 4/25/2015 12:48:40 | 45.93 | 45.13 | 134 | 3.40 | 0.37 | 7.3 |
| 4/25/2015 12:48:50 | 46.26 | 45.46 | 0 | 5.25 | 0.38 | 0.0 |
| 4/25/2015 12:48:51 | 46.59 | 45.79 | 117 | 3.40 | 0.37 | 6.4 |
| 4/25/2015 12:48:51 | 46.92 | 46.12 | 199 | 3.22 | 0.37 | 10.9 |
| 4/25/2015 12:48:52 | 47.24 | 46.44 | 278 | 4.26 | 0.37 | 15.2 |
| 4/25/2015 12:48:58 | 47.57 | 46.77 | 80 | 3.91 | 0.39 | 4.4 |
| 4/25/2015 12:49:18 | 47.90 | 47.10 | 29 | 4.04 | 0.37 | 1.6 |
| 4/25/2015 12:49:19 | 48.23 | 47.43 | 197 | 4.63 | 0.37 | 10.8 |
| 4/25/2015 12:49:19 | 48.56 | 47.76 | 274 | 2.86 | 0.37 | 15.0 |
| 4/25/2015 12:49:29 | 48.88 | 48.08 | 125 | 3.34 | 0.37 | 6.9 |
| 4/25/2015 12:49:30 | 49.21 | 48.41 | 220 | 2.02 | 0.34 | 12.0 |
| 4/25/2015 12:49:30 | 49.54 | 48.74 | 358 | 2.04 | 0.34 | 19.6 |
| 4/25/2015 12:49:38 | 49.87 | 49.07 | 46 | 2.63 | 0.38 | 2.5 |
| 4/25/2015 12:49:39 | 50.20 | 49.40 | 168 | 2.65 | 0.38 | 9.2 |
| 4/25/2015 12:49:42 | 50.53 | 49.73 | 141 | 2.83 | 0.40 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:49:49 | 50.85 | 50.05 | 38 | 2.41 | 0.37 | 2.1 |
| 4/25/2015 | 12:49:50 | 51.18 | 50.38 | 168 | 3.92 | 0.39 | 9.2 |
| 4/25/2015 | 12:49:55 | 51.51 | 50.71 | 88 | 4.36 | 0.39 | 4.8 |
| 4/25/2015 | 12:50:00 | 51.84 | 51.04 | 52 | 3.15 | 0.40 | 2.9 |
| 4/25/2015 | 12:50:07 | 52.17 | 51.37 | 49 | 3.69 | 0.40 | 2.7 |
| 4/25/2015 | 12:50:14 | 52.49 | 51.69 | 52 | 3.44 | 0.40 | 2.8 |
| 4/25/2015 | 12:50:16 | 52.57 | 51.77 | 49 | 3.36 | 0.40 | 2.7 |

## H151 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:45:50

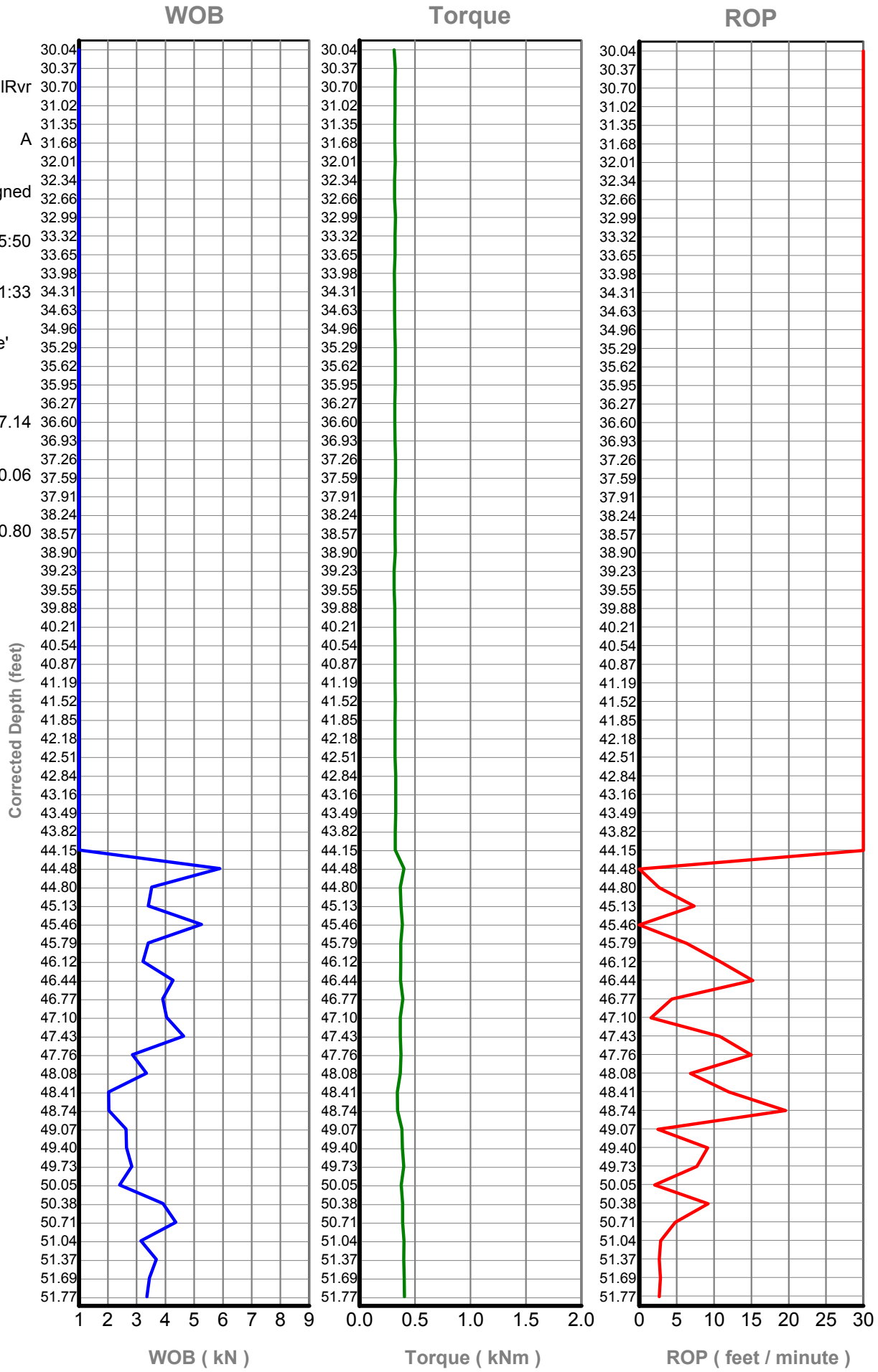
**End Date:**
4/25/2015 12:51:33

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
366,567.14

**Easting:**
250,550.06

**Tide (feet):**
0.80



## Hole: H152 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:53:31 | 30.84 | 30.04 | 1,099 | 0.32 | 0.31 | 60.1 |
| 4/25/2015 12:53:31 | 31.17 | 30.37 | 1,099 | 0.32 | 0.31 | 60.1 |
| 4/25/2015 12:53:31 | 31.50 | 30.70 | 1,102 | 0.33 | 0.32 | 60.3 |
| 4/25/2015 12:53:32 | 31.82 | 31.02 | 1,102 | 0.33 | 0.32 | 60.3 |
| 4/25/2015 12:53:32 | 32.15 | 31.35 | 1,102 | 0.33 | 0.31 | 60.3 |
| 4/25/2015 12:53:32 | 32.48 | 31.68 | 1,105 | 0.32 | 0.32 | 60.4 |
| 4/25/2015 12:53:33 | 32.81 | 32.01 | 1,105 | 0.32 | 0.32 | 60.4 |
| 4/25/2015 12:53:33 | 33.14 | 32.34 | 1,099 | 0.33 | 0.32 | 60.1 |
| 4/25/2015 12:53:33 | 33.46 | 32.66 | 1,099 | 0.32 | 0.32 | 60.1 |
| 4/25/2015 12:53:34 | 33.79 | 32.99 | 1,099 | 0.32 | 0.32 | 60.1 |
| 4/25/2015 12:53:34 | 34.12 | 33.32 | 1,092 | 0.32 | 0.32 | 59.7 |
| 4/25/2015 12:53:35 | 34.45 | 33.65 | 1,092 | 0.32 | 0.32 | 59.7 |
| 4/25/2015 12:53:35 | 34.78 | 33.98 | 1,101 | 0.32 | 0.32 | 60.2 |
| 4/25/2015 12:53:35 | 35.11 | 34.31 | 1,098 | 0.33 | 0.31 | 60.1 |
| 4/25/2015 12:53:36 | 35.43 | 34.63 | 1,098 | 0.33 | 0.31 | 60.1 |
| 4/25/2015 12:53:36 | 35.76 | 34.96 | 1,098 | 0.33 | 0.32 | 60.1 |
| 4/25/2015 12:53:36 | 36.09 | 35.29 | 1,098 | 0.33 | 0.32 | 60.1 |
| 4/25/2015 12:53:37 | 36.42 | 35.62 | 1,098 | 0.33 | 0.32 | 60.1 |
| 4/25/2015 12:53:37 | 36.75 | 35.95 | 1,105 | 0.33 | 0.32 | 60.4 |
| 4/25/2015 12:53:37 | 37.07 | 36.27 | 1,105 | 0.33 | 0.32 | 60.4 |
| 4/25/2015 12:53:37 | 37.40 | 36.60 | 1,099 | 0.32 | 0.32 | 60.1 |
| 4/25/2015 12:53:38 | 37.73 | 36.93 | 1,090 | 0.33 | 0.31 | 59.6 |
| 4/25/2015 12:53:38 | 38.06 | 37.26 | 1,090 | 0.33 | 0.31 | 59.6 |
| 4/25/2015 12:53:38 | 38.39 | 37.59 | 1,090 | 0.33 | 0.31 | 59.6 |
| 4/25/2015 12:53:39 | 38.71 | 37.91 | 1,093 | 0.33 | 0.32 | 59.8 |
| 4/25/2015 12:53:39 | 39.04 | 38.24 | 1,093 | 0.33 | 0.32 | 59.8 |
| 4/25/2015 12:53:39 | 39.37 | 38.57 | 1,086 | 0.40 | 0.32 | 59.4 |
| 4/25/2015 12:53:40 | 39.70 | 38.90 | 1,084 | 0.35 | 0.32 | 59.3 |
| 4/25/2015 12:53:40 | 40.03 | 39.23 | 1,084 | 0.35 | 0.32 | 59.3 |
| 4/25/2015 12:53:40 | 40.35 | 39.55 | 1,078 | 0.36 | 0.32 | 59.0 |
| 4/25/2015 12:53:41 | 40.68 | 39.88 | 1,078 | 0.36 | 0.32 | 59.0 |
| 4/25/2015 12:53:41 | 41.01 | 40.21 | 1,069 | 0.34 | 0.32 | 58.5 |
| 4/25/2015 12:53:41 | 41.34 | 40.54 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 12:53:42 | 41.67 | 40.87 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 12:53:42 | 41.99 | 41.19 | 1,062 | 0.33 | 0.32 | 58.1 |
| 4/25/2015 12:53:42 | 42.32 | 41.52 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 12:53:43 | 42.65 | 41.85 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 12:53:43 | 42.98 | 42.18 | 1,061 | 0.33 | 0.33 | 58.0 |
| 4/25/2015 12:53:43 | 43.31 | 42.51 | 1,064 | 0.34 | 0.32 | 58.2 |
| 4/25/2015 12:53:44 | 43.64 | 42.84 | 1,064 | 0.34 | 0.32 | 58.2 |
| 4/25/2015 12:53:44 | 43.96 | 43.16 | 1,067 | 0.32 | 0.32 | 58.3 |
| 4/25/2015 12:53:44 | 44.29 | 43.49 | 1,060 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 12:53:45 | 44.62 | 43.82 | 1,060 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 12:53:45 | 44.95 | 44.15 | 1,073 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 12:53:46 | 45.28 | 44.48 | 1,073 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 12:53:46 | 45.60 | 44.80 | 1,070 | 0.32 | 0.32 | 58.5 |
| 4/25/2015 12:53:46 | 45.93 | 45.13 | 1,061 | 0.29 | 0.38 | 58.0 |
| 4/25/2015 12:53:58 | 46.26 | 45.46 | 50 | 3.99 | 0.37 | 2.7 |
| 4/25/2015 12:53:59 | 46.59 | 45.79 | 215 | 4.26 | 0.37 | 11.7 |
| 4/25/2015 12:53:59 | 46.92 | 46.12 | 289 | 3.04 | 0.37 | 15.8 |
| 4/25/2015 12:54:12 | 47.24 | 46.44 | 35 | 5.36 | 0.37 | 1.9 |
| 4/25/2015 12:54:18 | 47.57 | 46.77 | 31 | 4.47 | 0.37 | 1.7 |
| 4/25/2015 12:54:19 | 47.90 | 47.10 | 120 | 5.54 | 0.38 | 6.6 |
| 4/25/2015 12:54:21 | 48.23 | 47.43 | 137 | 3.53 | 0.37 | 7.5 |
| 4/25/2015 12:54:22 | 48.56 | 47.76 | 104 | 2.57 | 0.35 | 5.7 |
| 4/25/2015 12:54:30 | 48.88 | 48.08 | 0 | 3.14 | 0.36 | 0.0 |
| 4/25/2015 12:54:31 | 49.21 | 48.41 | 125 | 4.76 | 0.37 | 6.8 |
| 4/25/2015 12:54:32 | 49.54 | 48.74 | 283 | 4.28 | 0.38 | 15.5 |
| 4/25/2015 12:54:33 | 49.87 | 49.07 | 357 | 4.53 | 0.38 | 19.5 |
| 4/25/2015 12:54:38 | 50.20 | 49.40 | 9 | 4.91 | 0.38 | 0.5 |
| 4/25/2015 12:54:40 | 50.53 | 49.73 | 185 | 5.12 | 0.38 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:54:40 | 50.85 | 50.05 | 245 | 4.40 | 0.37 | 13.4 |
| 4/25/2015 | 12:54:41 | 51.18 | 50.38 | 379 | 2.37 | 0.36 | 20.7 |
| 4/25/2015 | 12:54:42 | 51.51 | 50.71 | 439 | 2.18 | 0.35 | 24.0 |
| 4/25/2015 | 12:54:42 | 51.84 | 51.04 | 503 | 2.38 | 0.36 | 27.5 |
| 4/25/2015 | 12:54:43 | 52.17 | 51.37 | 560 | 2.45 | 0.36 | 30.6 |
| 4/25/2015 | 12:54:43 | 52.49 | 51.69 | 583 | 2.42 | 0.37 | 31.9 |
| 4/25/2015 | 12:54:44 | 52.82 | 52.02 | 561 | 3.12 | 0.40 | 30.7 |
| 4/25/2015 | 12:54:46 | 53.15 | 52.35 | 232 | 3.11 | 0.37 | 12.7 |
| 4/25/2015 | 12:54:48 | 53.48 | 52.68 | 242 | 4.07 | 0.39 | 13.2 |
| 4/25/2015 | 12:54:55 | 53.81 | 53.01 | 86 | 3.54 | 0.40 | 4.7 |
| 4/25/2015 | 12:54:59 | 54.13 | 53.33 | 90 | 3.83 | 0.38 | 4.9 |
| 4/25/2015 | 12:55:04 | 54.46 | 53.66 | 23 | 3.59 | 0.39 | 1.2 |
| 4/25/2015 | 12:55:09 | 54.79 | 53.99 | 55 | 4.09 | 0.40 | 3.0 |
| 4/25/2015 | 12:55:14 | 55.12 | 54.32 | 61 | 3.39 | 0.40 | 3.3 |
| 4/25/2015 | 12:55:21 | 55.45 | 54.65 | 48 | 4.38 | 0.39 | 2.6 |
| 4/25/2015 | 12:55:24 | 55.77 | 54.97 | 98 | 2.97 | 0.40 | 5.4 |

## H152 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:51:41

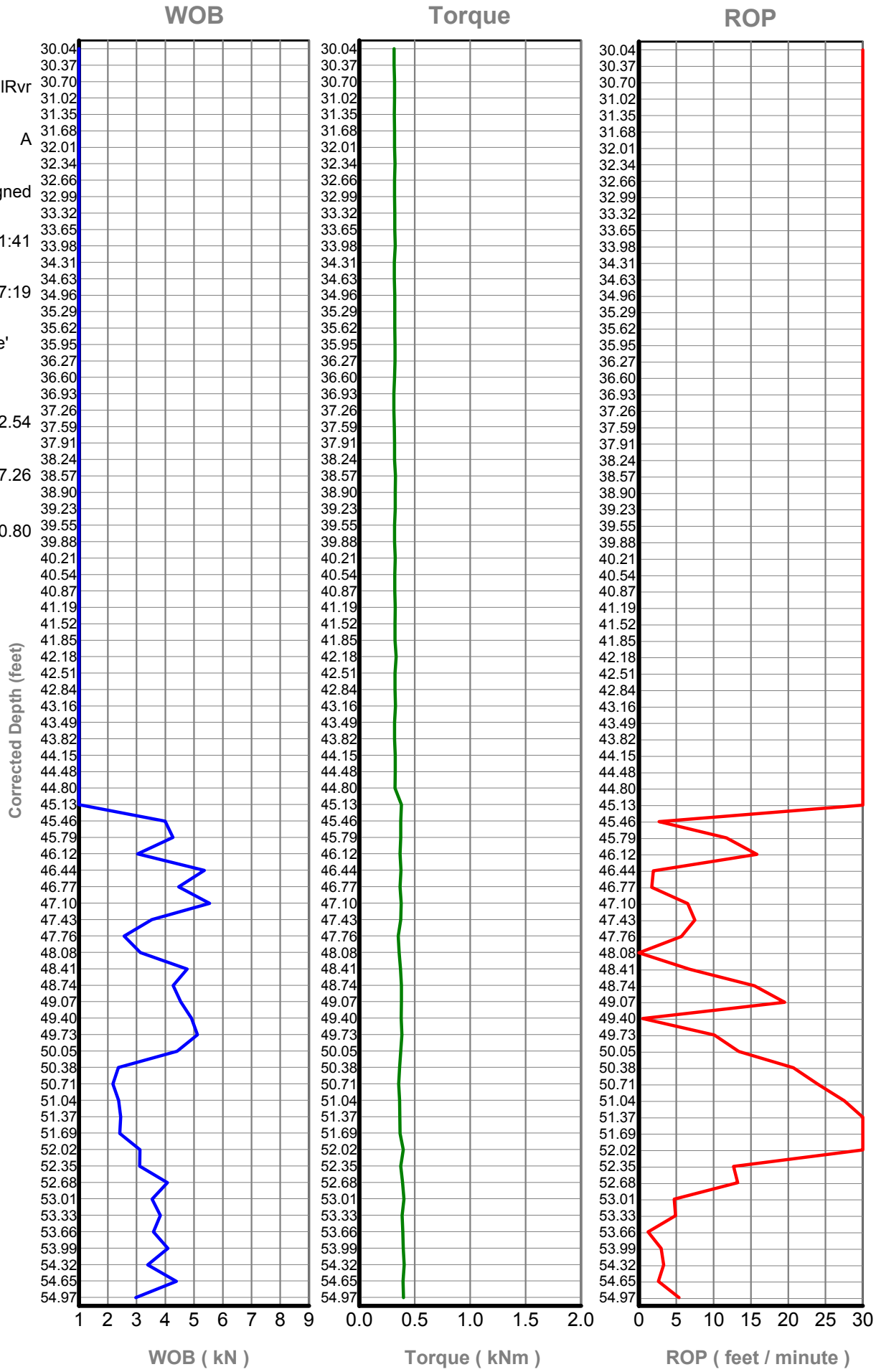
**End Date:**
4/25/2015 12:57:19

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
366,602.54

**Easting:**
250,597.26

**Tide (feet):**
0.80



## Hole: H153 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:49:36 | 30.84 | 30.04 | 601 | 1.74 | 0.30 | 32.9 |
| 4/25/2015 12:49:37 | 31.17 | 30.37 | 601 | 1.76 | 0.30 | 32.9 |
| 4/25/2015 12:49:38 | 31.50 | 30.70 | 595 | 1.78 | 0.29 | 32.6 |
| 4/25/2015 12:49:39 | 31.82 | 31.02 | 604 | 1.74 | 0.29 | 33.0 |
| 4/25/2015 12:49:39 | 32.15 | 31.35 | 604 | 1.76 | 0.29 | 33.0 |
| 4/25/2015 12:49:40 | 32.48 | 31.68 | 602 | 1.77 | 0.29 | 32.9 |
| 4/25/2015 12:49:40 | 32.81 | 32.01 | 614 | 1.78 | 0.29 | 33.6 |
| 4/25/2015 12:49:41 | 33.14 | 32.34 | 616 | 1.76 | 0.30 | 33.7 |
| 4/25/2015 12:49:41 | 33.46 | 32.66 | 600 | 1.76 | 0.29 | 32.8 |
| 4/25/2015 12:49:42 | 33.79 | 32.99 | 607 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 12:49:43 | 34.12 | 33.32 | 605 | 1.77 | 0.29 | 33.1 |
| 4/25/2015 12:49:43 | 34.45 | 33.65 | 605 | 1.68 | 0.30 | 33.1 |
| 4/25/2015 12:49:44 | 34.78 | 33.98 | 608 | 1.77 | 0.30 | 33.3 |
| 4/25/2015 12:49:44 | 35.11 | 34.31 | 608 | 1.73 | 0.29 | 33.3 |
| 4/25/2015 12:49:45 | 35.43 | 34.63 | 605 | 1.76 | 0.29 | 33.1 |
| 4/25/2015 12:49:45 | 35.76 | 34.96 | 601 | 1.76 | 0.29 | 32.9 |
| 4/25/2015 12:49:46 | 36.09 | 35.29 | 605 | 1.74 | 0.30 | 33.1 |
| 4/25/2015 12:49:47 | 36.42 | 35.62 | 598 | 1.74 | 0.29 | 32.7 |
| 4/25/2015 12:49:47 | 36.75 | 35.95 | 601 | 1.76 | 0.29 | 32.8 |
| 4/25/2015 12:49:48 | 37.07 | 36.27 | 598 | 1.74 | 0.29 | 32.7 |
| 4/25/2015 12:49:49 | 37.40 | 36.60 | 607 | 1.76 | 0.30 | 33.2 |
| 4/25/2015 12:49:49 | 37.73 | 36.93 | 587 | 1.74 | 0.30 | 32.1 |
| 4/25/2015 12:49:50 | 38.06 | 37.26 | 587 | 1.75 | 0.29 | 32.1 |
| 4/25/2015 12:49:50 | 38.39 | 37.59 | 605 | 1.77 | 0.30 | 33.1 |
| 4/25/2015 12:49:51 | 38.71 | 37.91 | 599 | 1.76 | 0.30 | 32.7 |
| 4/25/2015 12:49:52 | 39.04 | 38.24 | 599 | 1.76 | 0.29 | 32.7 |
| 4/25/2015 12:49:52 | 39.37 | 38.57 | 611 | 1.74 | 0.29 | 33.4 |
| 4/25/2015 12:49:53 | 39.70 | 38.90 | 607 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 12:49:53 | 40.03 | 39.23 | 604 | 1.74 | 0.29 | 33.0 |
| 4/25/2015 12:49:54 | 40.35 | 39.55 | 604 | 1.75 | 0.29 | 33.0 |
| 4/25/2015 12:49:54 | 40.68 | 39.88 | 604 | 1.76 | 0.29 | 33.0 |
| 4/25/2015 12:49:55 | 41.01 | 40.21 | 604 | 1.75 | 0.29 | 33.0 |
| 4/25/2015 12:49:56 | 41.34 | 40.54 | 598 | 1.74 | 0.29 | 32.7 |
| 4/25/2015 12:49:56 | 41.67 | 40.87 | 595 | 1.74 | 0.29 | 32.5 |
| 4/25/2015 12:49:57 | 41.99 | 41.19 | 598 | 1.75 | 0.29 | 32.7 |
| 4/25/2015 12:49:57 | 42.32 | 41.52 | 598 | 1.74 | 0.29 | 32.7 |
| 4/25/2015 12:49:58 | 42.65 | 41.85 | 598 | 1.74 | 0.29 | 32.7 |
| 4/25/2015 12:49:59 | 42.98 | 42.18 | 598 | 1.76 | 0.30 | 32.7 |
| 4/25/2015 12:49:59 | 43.31 | 42.51 | 601 | 1.76 | 0.29 | 32.9 |
| 4/25/2015 12:50:00 | 43.64 | 42.84 | 598 | 1.76 | 0.29 | 32.7 |
| 4/25/2015 12:50:01 | 43.96 | 43.16 | 595 | 1.76 | 0.29 | 32.5 |
| 4/25/2015 12:50:01 | 44.29 | 43.49 | 598 | 1.77 | 0.29 | 32.7 |
| 4/25/2015 12:50:02 | 44.62 | 43.82 | 598 | 1.77 | 0.29 | 32.7 |
| 4/25/2015 12:50:02 | 44.95 | 44.15 | 598 | 1.77 | 0.29 | 32.7 |
| 4/25/2015 12:50:03 | 45.28 | 44.48 | 595 | 1.76 | 0.29 | 32.6 |
| 4/25/2015 12:50:03 | 45.60 | 44.80 | 598 | 1.75 | 0.29 | 32.7 |
| 4/25/2015 12:50:04 | 45.93 | 45.13 | 593 | 1.76 | 0.29 | 32.4 |
| 4/25/2015 12:50:29 | 46.26 | 45.46 | 75 | 1.79 | 1.15 | 4.1 |
| 4/25/2015 12:50:30 | 46.59 | 45.79 | 185 | 1.80 | 1.15 | 10.1 |
| 4/25/2015 12:50:32 | 46.92 | 46.12 | 280 | 1.77 | 1.02 | 15.3 |
| 4/25/2015 12:50:33 | 47.24 | 46.44 | 286 | 1.82 | 1.08 | 15.7 |
| 4/25/2015 12:51:18 | 47.57 | 46.77 | 0 | 1.76 | 1.02 | 0.0 |
| 4/25/2015 12:51:20 | 47.90 | 47.10 | 134 | 1.77 | 1.04 | 7.3 |
| 4/25/2015 12:51:56 | 48.23 | 47.43 | 0 | 1.79 | 0.99 | 0.0 |
| 4/25/2015 12:52:13 | 48.56 | 47.76 | 0 | 1.77 | 1.10 | 0.0 |
| 4/25/2015 12:52:15 | 48.88 | 48.08 | 113 | 1.76 | 1.07 | 6.2 |
| 4/25/2015 12:52:22 | 49.21 | 48.41 | 49 | 1.74 | 1.17 | 2.7 |
| 4/25/2015 12:52:23 | 49.54 | 48.74 | 108 | 1.78 | 1.04 | 5.9 |
| 4/25/2015 12:52:25 | 49.87 | 49.07 | 212 | 1.74 | 1.16 | 11.6 |
| 4/25/2015 12:52:27 | 50.20 | 49.40 | 265 | 1.79 | 1.02 | 14.5 |
| 4/25/2015 12:52:28 | 50.53 | 49.73 | 269 | 1.76 | 0.97 | 14.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:52:29 | 50.85 | 50.05 | 293 | 1.77 | 0.91 | 16.0 |
| 4/25/2015 | 12:52:51 | 51.18 | 50.38 | 59 | 1.76 | 1.12 | 3.2 |
| 4/25/2015 | 12:52:52 | 51.51 | 50.71 | 187 | 1.76 | 0.96 | 10.2 |
| 4/25/2015 | 12:52:53 | 51.84 | 51.04 | 327 | 1.75 | 1.06 | 17.9 |
| 4/25/2015 | 12:53:21 | 52.17 | 51.37 | 0 | 1.74 | 1.27 | 0.0 |
| 4/25/2015 | 12:53:23 | 52.49 | 51.69 | 102 | 1.76 | 1.17 | 5.6 |
| 4/25/2015 | 12:53:24 | 52.82 | 52.02 | 156 | 1.74 | 1.07 | 8.5 |
| 4/25/2015 | 12:53:25 | 53.15 | 52.35 | 270 | 1.81 | 1.08 | 14.8 |
| 4/25/2015 | 12:53:27 | 53.48 | 52.68 | 268 | 1.78 | 1.05 | 14.7 |
| 4/25/2015 | 12:54:14 | 53.81 | 53.01 | 74 | 1.79 | 1.05 | 4.1 |
| 4/25/2015 | 12:54:16 | 54.13 | 53.33 | 239 | 1.74 | 1.07 | 13.1 |
| 4/25/2015 | 12:54:17 | 54.46 | 53.66 | 272 | 1.79 | 0.97 | 14.9 |
| 4/25/2015 | 12:54:18 | 54.79 | 53.99 | 278 | 1.77 | 1.05 | 15.2 |
| 4/25/2015 | 12:54:20 | 55.12 | 54.32 | 281 | 1.78 | 1.04 | 15.3 |
| 4/25/2015 | 12:54:26 | 55.45 | 54.65 | 0 | 1.76 | 1.17 | 0.0 |
| 4/25/2015 | 12:54:28 | 55.77 | 54.97 | 142 | 1.76 | 1.05 | 7.8 |
| 4/25/2015 | 12:54:28 | 55.86 | 55.06 | 173 | 1.76 | 1.08 | 9.5 |

## H153 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:47:44

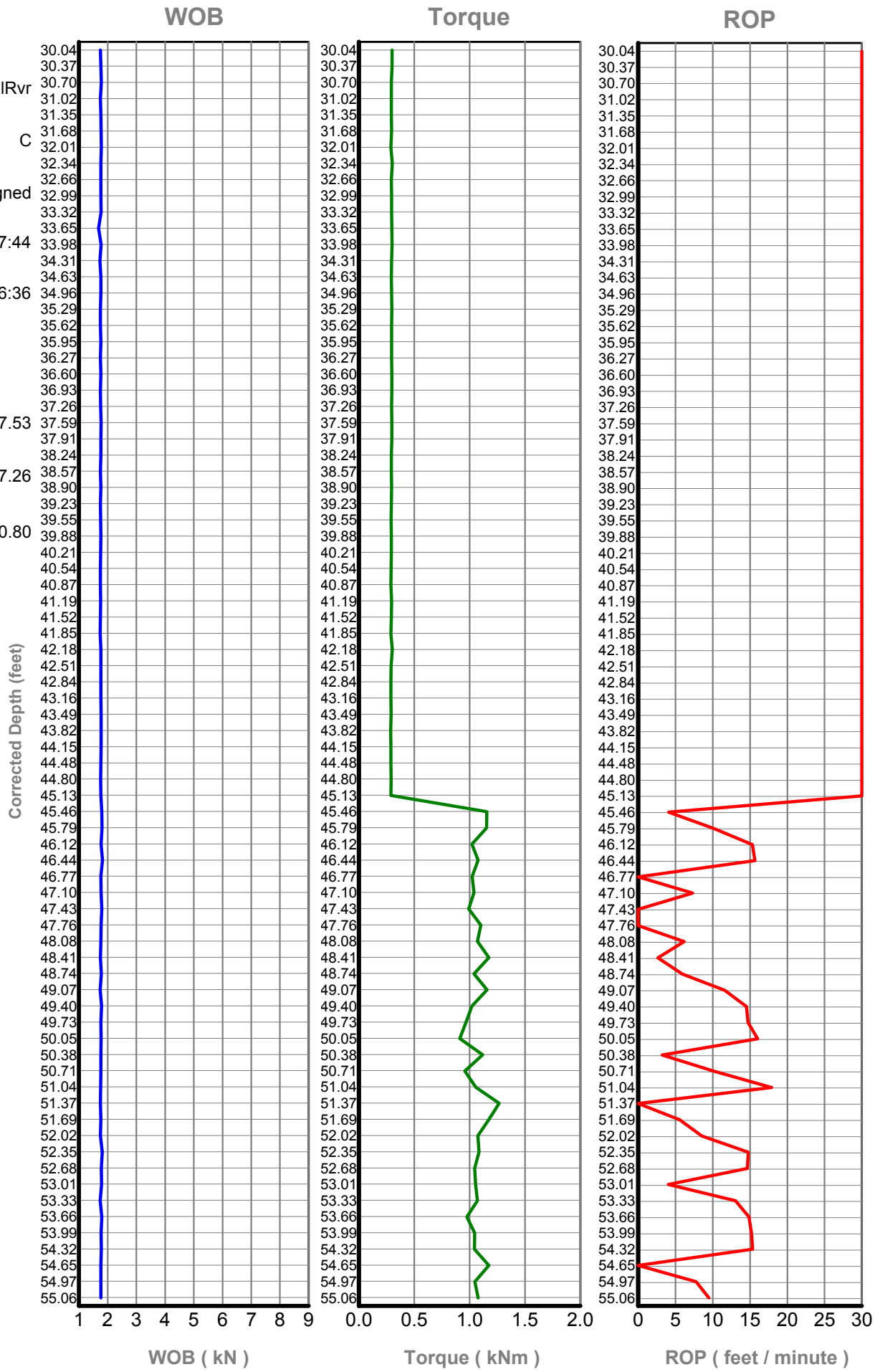
**End Date:**
4/25/2015 12:56:36

**Operator Note:**
'0.8 0.8 C Auto Complete'

**Northing:**
366,647.53

**Easting:**
250,657.26

**Tide (feet):**
0.80



## Hole: H154 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:28:22 | 34.12 | 30.22 | 983 | 0.32 | 0.32 | 53.7 |
| 4/25/2015 9:28:22 | 34.45 | 30.55 | 983 | 0.32 | 0.32 | 53.7 |
| 4/25/2015 9:28:23 | 34.78 | 30.88 | 1,010 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 9:28:23 | 35.11 | 31.21 | 997 | 0.32 | 0.32 | 54.5 |
| 4/25/2015 9:28:24 | 35.43 | 31.53 | 997 | 0.32 | 0.32 | 54.5 |
| 4/25/2015 9:28:24 | 35.76 | 31.86 | 994 | 0.32 | 0.32 | 54.4 |
| 4/25/2015 9:28:24 | 36.09 | 32.19 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:25 | 36.42 | 32.52 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:25 | 36.75 | 32.85 | 986 | 0.32 | 0.31 | 53.9 |
| 4/25/2015 9:28:25 | 37.07 | 33.17 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:26 | 37.40 | 33.50 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:26 | 37.73 | 33.83 | 980 | 0.35 | 0.31 | 53.6 |
| 4/25/2015 9:28:26 | 38.06 | 34.16 | 980 | 0.33 | 0.31 | 53.6 |
| 4/25/2015 9:28:27 | 38.39 | 34.49 | 980 | 0.33 | 0.31 | 53.6 |
| 4/25/2015 9:28:27 | 38.71 | 34.81 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:28:27 | 39.04 | 35.14 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:28:28 | 39.37 | 35.47 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:28:28 | 39.70 | 35.80 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:28:28 | 40.03 | 36.13 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:28:29 | 40.35 | 36.45 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 9:28:30 | 40.68 | 36.78 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 9:28:30 | 41.01 | 37.11 | 983 | 0.33 | 0.32 | 53.8 |
| 4/25/2015 9:28:30 | 41.34 | 37.44 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:28:31 | 41.67 | 37.77 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 9:28:31 | 41.99 | 38.09 | 983 | 0.33 | 0.31 | 53.7 |
| 4/25/2015 9:28:31 | 42.32 | 38.42 | 992 | 0.32 | 0.31 | 54.2 |
| 4/25/2015 9:28:32 | 42.65 | 38.75 | 992 | 0.32 | 0.31 | 54.2 |
| 4/25/2015 9:28:32 | 42.98 | 39.08 | 989 | 0.09 | 0.32 | 54.1 |
| 4/25/2015 9:28:32 | 43.31 | 39.41 | 992 | 0.33 | 0.31 | 54.2 |
| 4/25/2015 9:28:33 | 43.64 | 39.74 | 986 | 0.33 | 0.32 | 53.9 |
| 4/25/2015 9:28:33 | 43.96 | 40.06 | 986 | 0.33 | 0.32 | 53.9 |
| 4/25/2015 9:28:33 | 44.29 | 40.39 | 986 | 0.33 | 0.31 | 53.9 |
| 4/25/2015 9:28:34 | 44.62 | 40.72 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 9:28:34 | 44.95 | 41.05 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 9:28:34 | 45.28 | 41.38 | 983 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:28:35 | 45.60 | 41.70 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:28:35 | 45.93 | 42.03 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:28:35 | 46.26 | 42.36 | 983 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:28:36 | 46.59 | 42.69 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 9:28:36 | 46.92 | 43.02 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:37 | 47.24 | 43.34 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:37 | 47.57 | 43.67 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:28:37 | 47.90 | 44.00 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:38 | 48.23 | 44.33 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:28:38 | 48.56 | 44.66 | 977 | 0.35 | 0.32 | 53.4 |
| 4/25/2015 9:28:38 | 48.88 | 44.98 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:28:39 | 49.21 | 45.31 | 969 | 0.33 | 0.32 | 53.0 |
| 4/25/2015 9:28:39 | 49.54 | 45.64 | 969 | 0.33 | 0.32 | 53.0 |
| 4/25/2015 9:28:40 | 49.87 | 45.97 | 977 | 0.33 | 0.32 | 53.4 |
| 4/25/2015 9:28:40 | 50.20 | 46.30 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:28:41 | 50.53 | 46.63 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:28:41 | 50.85 | 46.95 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:28:41 | 51.18 | 47.28 | 968 | 0.33 | 0.32 | 53.0 |
| 4/25/2015 9:28:42 | 51.51 | 47.61 | 968 | 0.33 | 0.32 | 53.0 |
| 4/25/2015 9:28:42 | 51.84 | 47.94 | 968 | 0.32 | 0.32 | 53.0 |
| 4/25/2015 9:28:42 | 52.17 | 48.27 | 963 | 0.33 | 0.32 | 52.6 |
| 4/25/2015 9:28:43 | 52.49 | 48.59 | 963 | 0.32 | 0.32 | 52.6 |
| 4/25/2015 9:28:43 | 52.82 | 48.92 | 963 | 0.32 | 0.32 | 52.6 |
| 4/25/2015 9:28:43 | 53.15 | 49.25 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:28:44 | 53.48 | 49.58 | 948 | 0.31 | 0.35 | 51.8 |
| 4/25/2015 9:28:51 | 53.81 | 49.91 | 94 | 2.21 | 0.35 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:28:52 | 54.13 | 50.23 | 227 | 2.32 | 0.35 | 12.4 |
| 4/25/2015 | 9:28:52 | 54.46 | 50.56 | 364 | 3.45 | 0.37 | 19.9 |
| 4/25/2015 | 9:28:53 | 54.79 | 50.89 | 479 | 2.45 | 0.35 | 26.2 |
| 4/25/2015 | 9:28:53 | 55.12 | 51.22 | 596 | 2.45 | 0.35 | 32.6 |
| 4/25/2015 | 9:28:54 | 55.45 | 51.55 | 613 | 2.27 | 0.35 | 33.5 |
| 4/25/2015 | 9:28:54 | 55.77 | 51.87 | 609 | 2.23 | 0.35 | 33.3 |
| 4/25/2015 | 9:28:55 | 56.10 | 52.20 | 601 | 2.30 | 0.36 | 32.9 |
| 4/25/2015 | 9:28:56 | 56.43 | 52.53 | 592 | 2.44 | 0.37 | 32.4 |
| 4/25/2015 | 9:28:57 | 56.76 | 52.86 | 499 | 2.48 | 0.37 | 27.3 |
| 4/25/2015 | 9:29:01 | 57.09 | 53.19 | 29 | 3.88 | 0.36 | 1.6 |
| 4/25/2015 | 9:29:02 | 57.41 | 53.51 | 220 | 2.79 | 0.36 | 12.0 |
| 4/25/2015 | 9:29:02 | 57.74 | 53.84 | 325 | 4.02 | 0.37 | 17.8 |
| 4/25/2015 | 9:29:04 | 58.07 | 54.17 | 236 | 3.41 | 0.38 | 12.9 |
| 4/25/2015 | 9:29:05 | 58.40 | 54.50 | 208 | 3.70 | 0.37 | 11.4 |
| 4/25/2015 | 9:29:06 | 58.73 | 54.83 | 313 | 3.47 | 0.38 | 17.1 |
| 4/25/2015 | 9:29:08 | 59.04 | 55.14 | 284 | 3.82 | 0.39 | 15.5 |

## H154 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:26:57

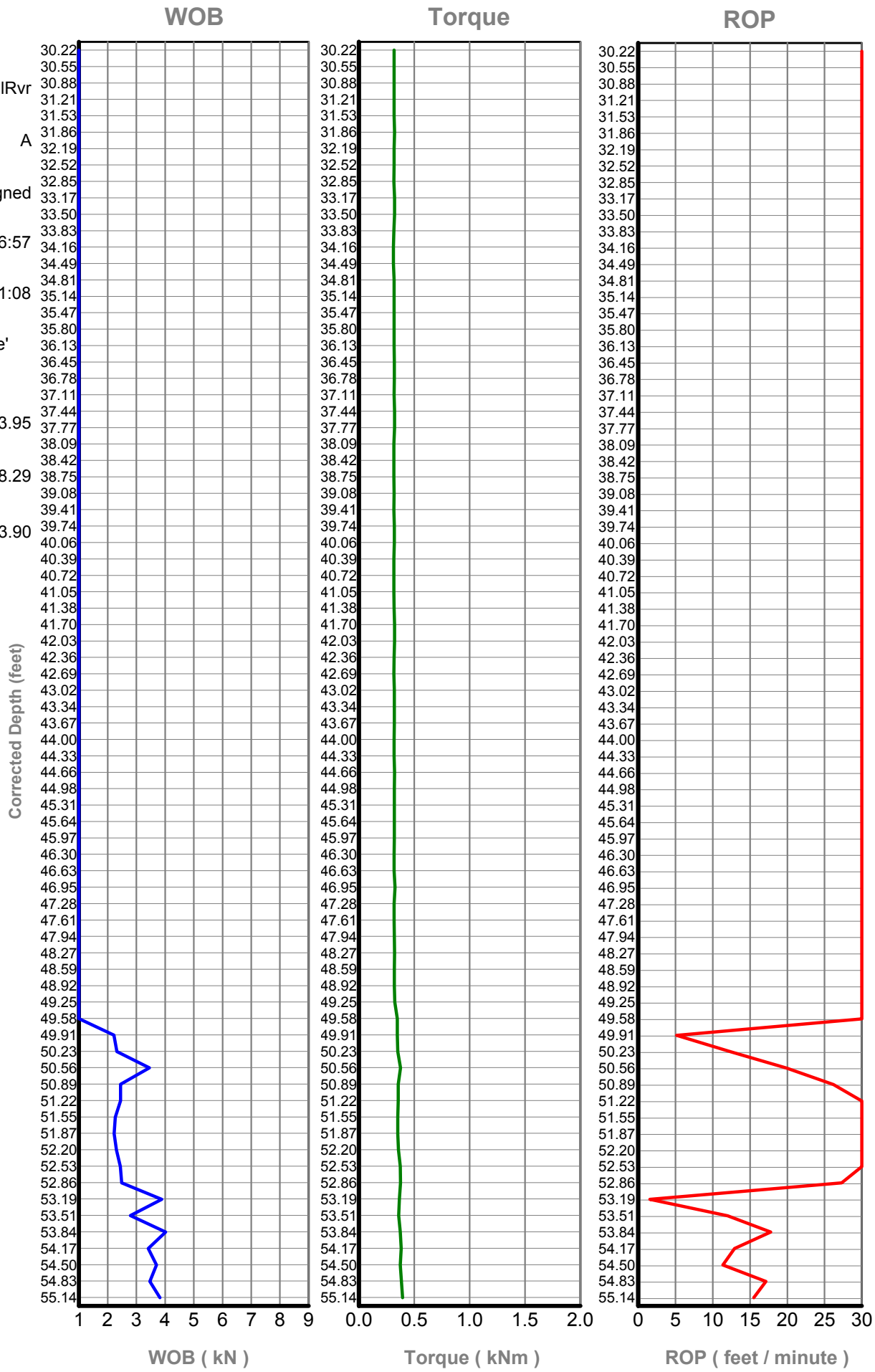
**End Date:**
4/25/2015 9:31:08

**Operator Note:**
'3.9 4.0 b Auto Complete'

**Northing:**
366,703.95

**Easting:**
250,728.29

**Tide (feet):**
3.90



## Hole: H155 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:23:51 | 34.12 | 30.02 | 949 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:23:52 | 34.45 | 30.35 | 961 | 0.33 | 0.32 | 52.5 |
| 4/25/2015 9:23:52 | 34.78 | 30.68 | 969 | 0.24 | 0.32 | 53.0 |
| 4/25/2015 9:23:53 | 35.11 | 31.01 | 969 | 0.24 | 0.32 | 53.0 |
| 4/25/2015 9:23:53 | 35.43 | 31.33 | 955 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:23:53 | 35.76 | 31.66 | 967 | 0.33 | 0.32 | 52.9 |
| 4/25/2015 9:23:54 | 36.09 | 31.99 | 967 | 0.33 | 0.32 | 52.9 |
| 4/25/2015 9:23:54 | 36.42 | 32.32 | 957 | 0.33 | 0.33 | 52.3 |
| 4/25/2015 9:23:54 | 36.75 | 32.65 | 951 | 0.32 | 0.32 | 52.0 |
| 4/25/2015 9:23:55 | 37.07 | 32.97 | 932 | 0.33 | 0.32 | 51.0 |
| 4/25/2015 9:23:55 | 37.40 | 33.30 | 932 | 0.33 | 0.32 | 51.0 |
| 4/25/2015 9:23:55 | 37.73 | 33.63 | 932 | 0.33 | 0.32 | 51.0 |
| 4/25/2015 9:23:56 | 38.06 | 33.96 | 931 | 0.33 | 0.32 | 50.9 |
| 4/25/2015 9:23:56 | 38.39 | 34.29 | 931 | 0.33 | 0.32 | 50.9 |
| 4/25/2015 9:23:56 | 38.71 | 34.61 | 931 | 0.33 | 0.32 | 50.9 |
| 4/25/2015 9:23:57 | 39.04 | 34.94 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:23:57 | 39.37 | 35.27 | 953 | 0.33 | 0.32 | 52.1 |
| 4/25/2015 9:23:58 | 39.70 | 35.60 | 953 | 0.33 | 0.32 | 52.1 |
| 4/25/2015 9:23:58 | 40.03 | 35.93 | 962 | 0.33 | 0.32 | 52.6 |
| 4/25/2015 9:23:59 | 40.35 | 36.25 | 981 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:23:59 | 40.68 | 36.58 | 981 | 0.33 | 0.32 | 53.7 |
| 4/25/2015 9:23:59 | 41.01 | 36.91 | 983 | 0.16 | 0.32 | 53.7 |
| 4/25/2015 9:24:00 | 41.34 | 37.24 | 960 | 0.33 | 0.32 | 52.5 |
| 4/25/2015 9:24:00 | 41.67 | 37.57 | 969 | 0.33 | 0.33 | 53.0 |
| 4/25/2015 9:24:01 | 41.99 | 37.89 | 969 | 0.33 | 0.33 | 53.0 |
| 4/25/2015 9:24:01 | 42.32 | 38.22 | 963 | 0.33 | 0.32 | 52.6 |
| 4/25/2015 9:24:01 | 42.65 | 38.55 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:24:02 | 42.98 | 38.88 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:24:02 | 43.31 | 39.21 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:24:02 | 43.64 | 39.54 | 966 | 0.34 | 0.32 | 52.8 |
| 4/25/2015 9:24:03 | 43.96 | 39.86 | 960 | 0.33 | 0.32 | 52.5 |
| 4/25/2015 9:24:03 | 44.29 | 40.19 | 960 | 0.33 | 0.32 | 52.5 |
| 4/25/2015 9:24:03 | 44.62 | 40.52 | 957 | 0.33 | 0.32 | 52.3 |
| 4/25/2015 9:24:04 | 44.95 | 40.85 | 957 | 0.33 | 0.32 | 52.3 |
| 4/25/2015 9:24:04 | 45.28 | 41.18 | 957 | 0.33 | 0.32 | 52.3 |
| 4/25/2015 9:24:04 | 45.60 | 41.50 | 966 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:24:05 | 45.93 | 41.83 | 954 | 0.33 | 0.32 | 52.2 |
| 4/25/2015 9:24:05 | 46.26 | 42.16 | 948 | 0.33 | 0.32 | 51.8 |
| 4/25/2015 9:24:06 | 46.59 | 42.49 | 948 | 0.33 | 0.32 | 51.8 |
| 4/25/2015 9:24:06 | 46.92 | 42.82 | 943 | 0.33 | 0.32 | 51.5 |
| 4/25/2015 9:24:06 | 47.24 | 43.14 | 948 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:24:07 | 47.57 | 43.47 | 948 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:24:07 | 47.90 | 43.80 | 946 | 0.33 | 0.32 | 51.7 |
| 4/25/2015 9:24:07 | 48.23 | 44.13 | 948 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:24:08 | 48.56 | 44.46 | 948 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:24:08 | 48.88 | 44.78 | 948 | 0.33 | 0.32 | 51.9 |
| 4/25/2015 9:24:08 | 49.21 | 45.11 | 963 | 0.31 | 0.35 | 52.6 |
| 4/25/2015 9:24:16 | 49.54 | 45.44 | 102 | 3.83 | 0.40 | 5.6 |
| 4/25/2015 9:24:22 | 49.87 | 45.77 | 54 | 4.15 | 0.38 | 3.0 |
| 4/25/2015 9:24:29 | 50.20 | 46.10 | 58 | 3.60 | 0.39 | 3.2 |
| 4/25/2015 9:24:32 | 50.53 | 46.43 | 115 | 3.98 | 0.39 | 6.3 |
| 4/25/2015 9:24:35 | 50.85 | 46.75 | 113 | 3.74 | 0.39 | 6.2 |
| 4/25/2015 9:24:40 | 51.18 | 47.08 | 64 | 3.31 | 0.40 | 3.5 |
| 4/25/2015 9:24:45 | 51.51 | 47.41 | 69 | 3.36 | 0.39 | 3.8 |
| 4/25/2015 9:24:51 | 51.84 | 47.74 | 68 | 3.15 | 0.40 | 3.7 |
| 4/25/2015 9:24:56 | 52.17 | 48.07 | 66 | 3.23 | 0.40 | 3.6 |
| 4/25/2015 9:24:58 | 52.28 | 48.18 | 64 | 2.97 | 0.40 | 3.5 |

## H155 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:21:37

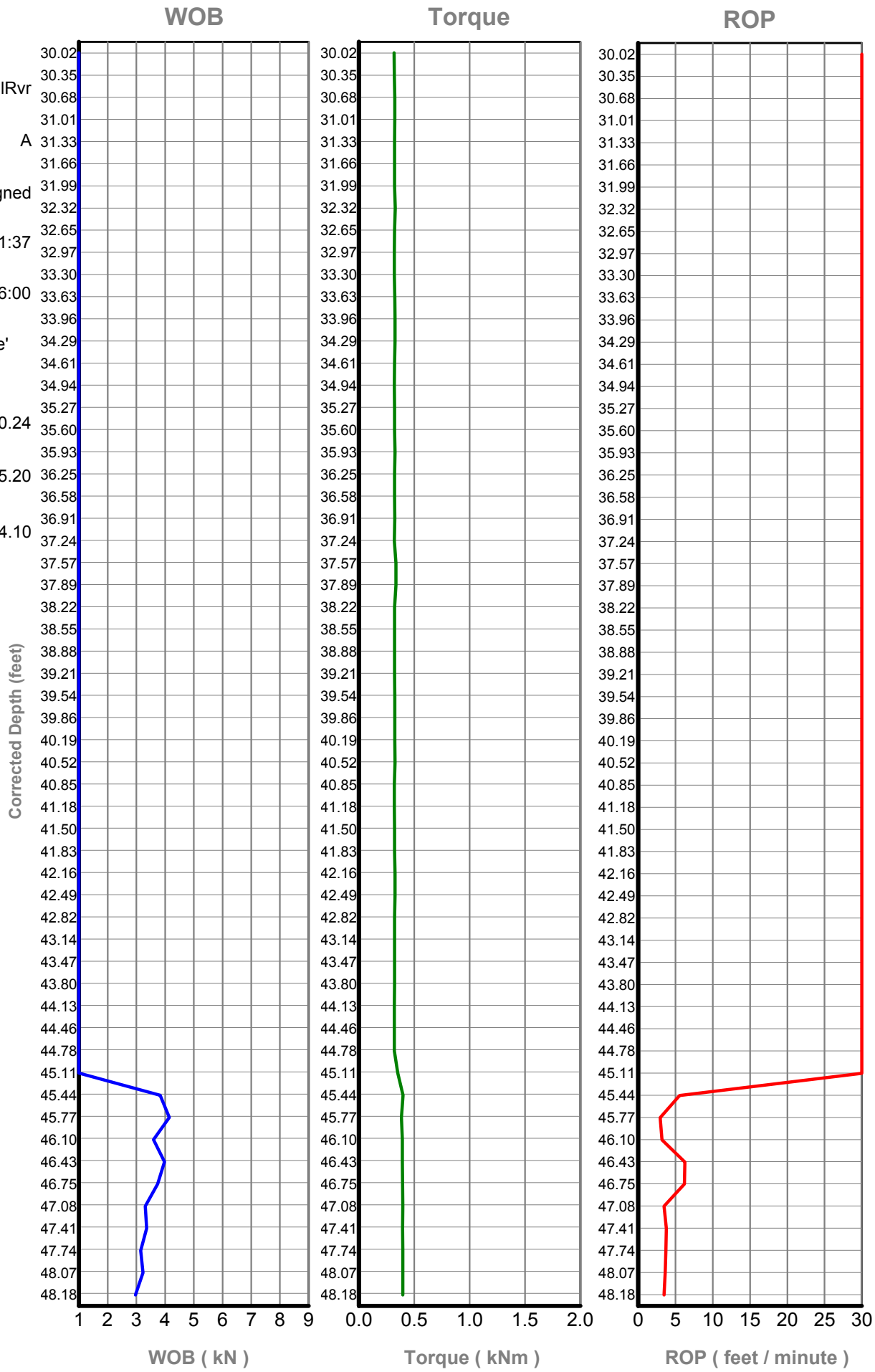
**End Date:**
4/25/2015 9:26:00

**Operator Note:**
'4.1 4.0 b Auto Complete'

**Northing:**
366,740.24

**Easting:**
250,775.20

**Tide (feet):**
4.10



## Hole: H156 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:25:27 | 34.12 | 30.22 | 586 | 1.84 | 0.31 | 32.1 |
| 4/25/2015 9:25:27 | 34.45 | 30.55 | 590 | 1.83 | 0.31 | 32.3 |
| 4/25/2015 9:25:28 | 34.78 | 30.88 | 590 | 1.83 | 0.31 | 32.3 |
| 4/25/2015 9:25:28 | 35.11 | 31.21 | 587 | 1.83 | 0.31 | 32.1 |
| 4/25/2015 9:25:29 | 35.43 | 31.53 | 584 | 1.81 | 0.31 | 31.9 |
| 4/25/2015 9:25:30 | 35.76 | 31.86 | 581 | 1.83 | 0.31 | 31.7 |
| 4/25/2015 9:25:30 | 36.09 | 32.19 | 584 | 1.83 | 0.31 | 31.9 |
| 4/25/2015 9:25:31 | 36.42 | 32.52 | 583 | 1.81 | 0.31 | 31.9 |
| 4/25/2015 9:25:31 | 36.75 | 32.85 | 593 | 1.83 | 0.30 | 32.4 |
| 4/25/2015 9:25:32 | 37.07 | 33.17 | 584 | 1.82 | 0.31 | 31.9 |
| 4/25/2015 9:25:33 | 37.40 | 33.50 | 587 | 1.81 | 0.31 | 32.1 |
| 4/25/2015 9:25:33 | 37.73 | 33.83 | 587 | 1.84 | 0.31 | 32.1 |
| 4/25/2015 9:25:34 | 38.06 | 34.16 | 580 | 1.84 | 0.30 | 31.7 |
| 4/25/2015 9:25:34 | 38.39 | 34.49 | 590 | 1.83 | 0.30 | 32.3 |
| 4/25/2015 9:25:35 | 38.71 | 34.81 | 584 | 1.83 | 0.31 | 31.9 |
| 4/25/2015 9:25:36 | 39.04 | 35.14 | 587 | 1.82 | 0.31 | 32.1 |
| 4/25/2015 9:25:37 | 39.37 | 35.47 | 591 | 1.83 | 0.30 | 32.3 |
| 4/25/2015 9:25:37 | 39.70 | 35.80 | 581 | 1.83 | 0.29 | 31.8 |
| 4/25/2015 9:25:38 | 40.03 | 36.13 | 587 | 1.82 | 0.30 | 32.1 |
| 4/25/2015 9:25:38 | 40.35 | 36.45 | 584 | 1.82 | 0.31 | 31.9 |
| 4/25/2015 9:25:39 | 40.68 | 36.78 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:25:39 | 41.01 | 37.11 | 581 | 1.83 | 0.31 | 31.7 |
| 4/25/2015 9:25:40 | 41.34 | 37.44 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:25:41 | 41.67 | 37.77 | 584 | 1.82 | 0.30 | 31.9 |
| 4/25/2015 9:25:41 | 41.99 | 38.09 | 584 | 1.83 | 0.30 | 31.9 |
| 4/25/2015 9:25:42 | 42.32 | 38.42 | 584 | 1.82 | 0.30 | 31.9 |
| 4/25/2015 9:25:42 | 42.65 | 38.75 | 581 | 1.82 | 0.30 | 31.8 |
| 4/25/2015 9:25:43 | 42.98 | 39.08 | 578 | 1.82 | 0.30 | 31.6 |
| 4/25/2015 9:25:44 | 43.31 | 39.41 | 581 | 1.83 | 0.30 | 31.8 |
| 4/25/2015 9:25:44 | 43.64 | 39.74 | 578 | 1.84 | 0.30 | 31.6 |
| 4/25/2015 9:25:45 | 43.96 | 40.06 | 575 | 1.83 | 0.30 | 31.4 |
| 4/25/2015 9:25:46 | 44.29 | 40.39 | 578 | 1.84 | 0.30 | 31.6 |
| 4/25/2015 9:25:46 | 44.62 | 40.72 | 581 | 1.82 | 0.30 | 31.8 |
| 4/25/2015 9:25:47 | 44.95 | 41.05 | 581 | 1.83 | 0.30 | 31.8 |
| 4/25/2015 9:25:48 | 45.28 | 41.38 | 574 | 1.83 | 0.30 | 31.4 |
| 4/25/2015 9:25:48 | 45.60 | 41.70 | 574 | 1.84 | 0.31 | 31.4 |
| 4/25/2015 9:25:49 | 45.93 | 42.03 | 576 | 1.82 | 0.30 | 31.5 |
| 4/25/2015 9:25:49 | 46.26 | 42.36 | 577 | 1.82 | 0.30 | 31.5 |
| 4/25/2015 9:25:50 | 46.59 | 42.69 | 574 | 1.83 | 0.30 | 31.4 |
| 4/25/2015 9:25:51 | 46.92 | 43.02 | 583 | 1.82 | 0.30 | 31.9 |
| 4/25/2015 9:26:11 | 47.24 | 43.34 | 0 | 1.81 | 1.04 | 0.0 |
| 4/25/2015 9:26:13 | 47.57 | 43.67 | 130 | 1.85 | 1.14 | 7.1 |
| 4/25/2015 9:26:19 | 47.90 | 44.00 | 55 | 1.88 | 1.11 | 3.0 |
| 4/25/2015 9:26:26 | 48.23 | 44.33 | 49 | 1.88 | 1.12 | 2.7 |
| 4/25/2015 9:26:34 | 48.56 | 44.66 | 49 | 1.87 | 1.07 | 2.7 |
| 4/25/2015 9:26:39 | 48.88 | 44.98 | 68 | 1.88 | 1.11 | 3.7 |
| 4/25/2015 9:26:44 | 49.21 | 45.31 | 78 | 1.89 | 1.15 | 4.3 |
| 4/25/2015 9:26:50 | 49.54 | 45.64 | 69 | 1.93 | 1.10 | 3.8 |
| 4/25/2015 9:26:54 | 49.87 | 45.97 | 78 | 1.87 | 1.14 | 4.3 |
| 4/25/2015 9:26:58 | 50.20 | 46.30 | 104 | 1.87 | 1.16 | 5.7 |
| 4/25/2015 9:26:58 | 50.24 | 46.34 | 104 | 1.87 | 1.16 | 5.7 |

## H156 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:23:38

**End Date:**
4/25/2015 9:28:29

**Operator Note:**
'3.9 '0.4 4.1 c Auto Complete'

**Northing:**
366,786.39

**Easting:**
250,834.12

**Tide (feet):**
3.90



## Hole: H157 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:34:54 | 31.82 | 30.22 | 915 | 1.09 | 0.36 | 50.0 |
| 4/24/2015 22:34:55 | 32.15 | 30.55 | 944 | 1.09 | 0.36 | 51.6 |
| 4/24/2015 22:34:55 | 32.48 | 30.88 | 941 | 1.07 | 0.36 | 51.4 |
| 4/24/2015 22:34:56 | 32.81 | 31.21 | 941 | 1.07 | 0.36 | 51.4 |
| 4/24/2015 22:34:56 | 33.14 | 31.54 | 928 | 1.09 | 0.36 | 50.7 |
| 4/24/2015 22:34:56 | 33.46 | 31.86 | 925 | 1.09 | 0.36 | 50.6 |
| 4/24/2015 22:34:57 | 33.79 | 32.19 | 920 | 1.08 | 0.36 | 50.3 |
| 4/24/2015 22:34:57 | 34.12 | 32.52 | 920 | 1.08 | 0.36 | 50.3 |
| 4/24/2015 22:34:57 | 34.45 | 32.85 | 931 | 1.09 | 0.36 | 50.9 |
| 4/24/2015 22:34:58 | 34.78 | 33.18 | 920 | 1.09 | 0.36 | 50.3 |
| 4/24/2015 22:34:59 | 35.11 | 33.51 | 926 | 1.02 | 0.32 | 50.6 |
| 4/24/2015 22:34:59 | 35.43 | 33.83 | 926 | 1.02 | 0.32 | 50.6 |
| 4/24/2015 22:35:07 | 35.76 | 34.16 | 109 | 1.02 | 0.35 | 6.0 |
| 4/24/2015 22:35:08 | 36.09 | 34.49 | 109 | 1.02 | 0.35 | 6.0 |
| 4/24/2015 22:35:07 | 36.42 | 34.82 | 271 | 1.03 | 0.33 | 14.8 |
| 4/24/2015 22:35:08 | 36.75 | 35.15 | 459 | 1.04 | 0.32 | 25.1 |
| 4/24/2015 22:35:09 | 37.07 | 35.47 | 644 | 1.05 | 0.32 | 35.2 |
| 4/24/2015 22:35:09 | 37.40 | 35.80 | 644 | 1.05 | 0.32 | 35.2 |
| 4/24/2015 22:35:09 | 37.73 | 36.13 | 824 | 0.20 | 0.32 | 45.1 |
| 4/24/2015 22:35:10 | 38.06 | 36.46 | 895 | 0.20 | 0.32 | 48.9 |
| 4/24/2015 22:35:10 | 38.39 | 36.79 | 906 | 0.19 | 0.32 | 49.5 |
| 4/24/2015 22:35:11 | 38.71 | 37.11 | 906 | 0.19 | 0.32 | 49.5 |
| 4/24/2015 22:35:11 | 39.04 | 37.44 | 906 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 22:35:11 | 39.37 | 37.77 | 909 | 0.20 | 0.32 | 49.7 |
| 4/24/2015 22:35:12 | 39.70 | 38.10 | 898 | 0.20 | 0.32 | 49.1 |
| 4/24/2015 22:35:12 | 40.03 | 38.43 | 898 | 0.20 | 0.32 | 49.1 |
| 4/24/2015 22:35:12 | 40.35 | 38.75 | 901 | 0.20 | 0.32 | 49.3 |
| 4/24/2015 22:35:13 | 40.68 | 39.08 | 909 | 0.20 | 0.32 | 49.7 |
| 4/24/2015 22:35:13 | 41.01 | 39.41 | 919 | 0.20 | 0.33 | 50.3 |
| 4/24/2015 22:35:14 | 41.34 | 39.74 | 919 | 0.20 | 0.33 | 50.3 |
| 4/24/2015 22:35:14 | 41.67 | 40.07 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 22:35:14 | 41.99 | 40.39 | 919 | 0.22 | 0.32 | 50.3 |
| 4/24/2015 22:35:15 | 42.32 | 40.72 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 22:35:15 | 42.65 | 41.05 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 22:35:15 | 42.98 | 41.38 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 22:35:16 | 43.31 | 41.71 | 914 | 0.20 | 0.33 | 50.0 |
| 4/24/2015 22:35:16 | 43.64 | 42.04 | 928 | 0.20 | 0.32 | 50.7 |
| 4/24/2015 22:35:17 | 43.96 | 42.36 | 928 | 0.20 | 0.32 | 50.7 |
| 4/24/2015 22:35:17 | 44.29 | 42.69 | 917 | 0.20 | 0.33 | 50.1 |
| 4/24/2015 22:35:17 | 44.62 | 43.02 | 914 | -0.03 | 0.33 | 50.0 |
| 4/24/2015 22:35:18 | 44.95 | 43.35 | 903 | 0.21 | 0.32 | 49.4 |
| 4/24/2015 22:35:18 | 45.28 | 43.68 | 903 | 0.21 | 0.32 | 49.4 |
| 4/24/2015 22:35:19 | 45.60 | 44.00 | 911 | 0.20 | 0.32 | 49.8 |
| 4/24/2015 22:35:19 | 45.93 | 44.33 | 903 | 0.21 | 0.32 | 49.4 |
| 4/24/2015 22:35:20 | 46.26 | 44.66 | 911 | 0.21 | 0.32 | 49.8 |
| 4/24/2015 22:35:20 | 46.59 | 44.99 | 911 | 0.21 | 0.32 | 49.8 |
| 4/24/2015 22:35:20 | 46.92 | 45.32 | 911 | 0.21 | 0.32 | 49.8 |
| 4/24/2015 22:35:21 | 47.24 | 45.64 | 914 | 0.21 | 0.33 | 50.0 |
| 4/24/2015 22:35:21 | 47.57 | 45.97 | 908 | 0.20 | 0.34 | 49.6 |
| 4/24/2015 22:35:22 | 47.90 | 46.30 | 908 | 0.20 | 0.34 | 49.6 |
| 4/24/2015 22:35:22 | 48.23 | 46.63 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 22:35:22 | 48.56 | 46.96 | 900 | 0.20 | 0.32 | 49.2 |
| 4/24/2015 22:35:23 | 48.88 | 47.28 | 908 | 0.20 | 0.33 | 49.6 |
| 4/24/2015 22:35:23 | 49.21 | 47.61 | 908 | 0.20 | 0.33 | 49.6 |
| 4/24/2015 22:35:38 | 49.54 | 47.94 | 9 | 3.22 | 0.39 | 0.5 |
| 4/24/2015 22:35:44 | 49.87 | 48.27 | 55 | 3.98 | 0.39 | 3.0 |
| 4/24/2015 22:35:47 | 50.20 | 48.60 | 86 | 3.68 | 0.39 | 4.7 |
| 4/24/2015 22:35:51 | 50.53 | 48.93 | 98 | 3.69 | 0.40 | 5.4 |
| 4/24/2015 22:35:54 | 50.85 | 49.25 | 110 | 3.77 | 0.39 | 6.0 |
| 4/24/2015 22:35:57 | 51.18 | 49.58 | 116 | 3.79 | 0.40 | 6.3 |
| 4/24/2015 22:36:01 | 51.51 | 49.91 | 95 | 3.47 | 0.40 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:36:04 | 51.84 | 50.24 | 101 | 3.71 | 0.39 | 5.5 |
| 4/24/2015 | 22:36:07 | 52.17 | 50.57 | 124 | 3.67 | 0.39 | 6.8 |
| 4/24/2015 | 22:36:09 | 52.49 | 50.89 | 134 | 3.43 | 0.38 | 7.3 |
| 4/24/2015 | 22:36:11 | 52.82 | 51.22 | 222 | 3.49 | 0.37 | 12.1 |
| 4/24/2015 | 22:36:12 | 53.15 | 51.55 | 275 | 2.90 | 0.37 | 15.0 |
| 4/24/2015 | 22:36:21 | 53.48 | 51.88 | 23 | 3.12 | 0.40 | 1.2 |
| 4/24/2015 | 22:36:25 | 53.81 | 52.21 | 76 | 3.94 | 0.39 | 4.2 |
| 4/24/2015 | 22:36:29 | 54.13 | 52.53 | 79 | 4.03 | 0.41 | 4.3 |
| 4/24/2015 | 22:36:35 | 54.46 | 52.86 | 78 | 3.64 | 0.40 | 4.3 |
| 4/24/2015 | 22:36:39 | 54.79 | 53.19 | 84 | 3.73 | 0.39 | 4.6 |
| 4/24/2015 | 22:36:43 | 55.12 | 53.52 | 86 | 3.88 | 0.40 | 4.7 |
| 4/24/2015 | 22:36:47 | 55.45 | 53.85 | 87 | 3.81 | 0.40 | 4.7 |
| 4/24/2015 | 22:36:51 | 55.77 | 54.17 | 87 | 3.73 | 0.39 | 4.7 |
| 4/24/2015 | 22:36:56 | 56.10 | 54.50 | 81 | 3.63 | 0.40 | 4.4 |
| 4/24/2015 | 22:37:00 | 56.43 | 54.83 | 81 | 3.83 | 0.40 | 4.4 |
| 4/24/2015 | 22:37:04 | 56.74 | 55.14 | 82 | 4.19 | 0.39 | 4.5 |

## H157 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:33:36

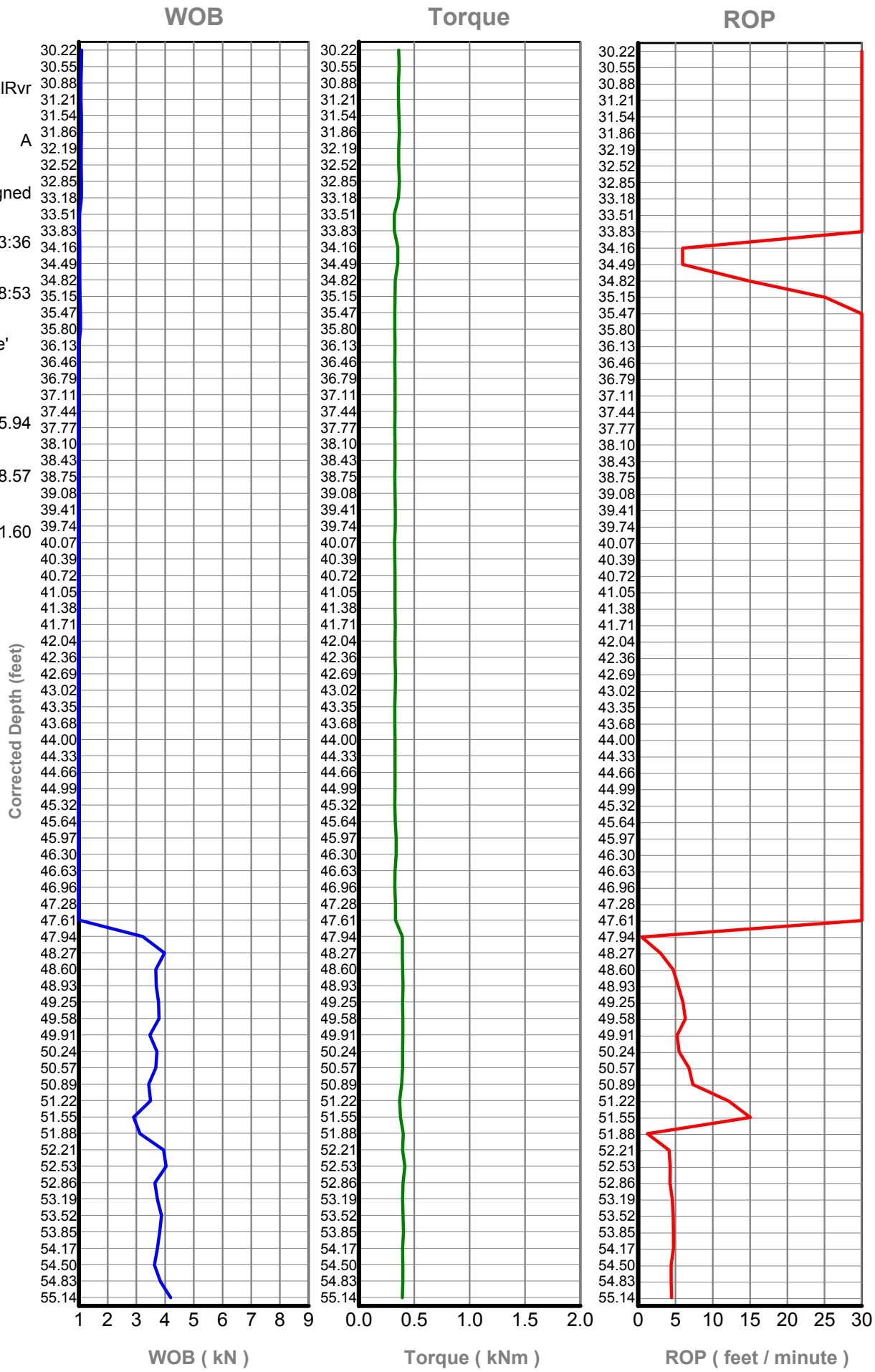
**End Date:**
4/24/2015 22:38:53

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
366,835.94

**Easting:**
250,898.57

**Tide (feet):**
1.60



## Hole: H158 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:27:48 | 31.82 | 30.12 | 923 | 0.21 | 0.33 | 50.5 |
| 4/24/2015 22:27:49 | 32.15 | 30.45 | 939 | 0.21 | 0.32 | 51.4 |
| 4/24/2015 22:27:49 | 32.48 | 30.78 | 939 | 0.21 | 0.32 | 51.4 |
| 4/24/2015 22:27:49 | 32.81 | 31.11 | 934 | 0.21 | 0.32 | 51.1 |
| 4/24/2015 22:27:50 | 33.14 | 31.44 | 937 | 0.20 | 0.32 | 51.2 |
| 4/24/2015 22:27:50 | 33.46 | 31.76 | 937 | 0.20 | 0.32 | 51.2 |
| 4/24/2015 22:27:50 | 33.79 | 32.09 | 934 | 0.21 | 0.32 | 51.1 |
| 4/24/2015 22:27:51 | 34.12 | 32.42 | 937 | 0.21 | 0.32 | 51.2 |
| 4/24/2015 22:27:52 | 34.45 | 32.75 | 928 | 0.21 | 0.33 | 50.7 |
| 4/24/2015 22:27:52 | 34.78 | 33.08 | 928 | 0.21 | 0.33 | 50.7 |
| 4/24/2015 22:27:52 | 35.11 | 33.41 | 931 | 0.21 | 0.32 | 50.9 |
| 4/24/2015 22:27:53 | 35.43 | 33.73 | 922 | 0.22 | 0.32 | 50.4 |
| 4/24/2015 22:27:53 | 35.76 | 34.06 | 931 | 0.22 | 0.32 | 50.9 |
| 4/24/2015 22:27:54 | 36.09 | 34.39 | 931 | 0.22 | 0.32 | 50.9 |
| 4/24/2015 22:27:54 | 36.42 | 34.72 | 928 | 0.22 | 0.32 | 50.7 |
| 4/24/2015 22:27:54 | 36.75 | 35.05 | 926 | 0.22 | 0.32 | 50.6 |
| 4/24/2015 22:27:55 | 37.07 | 35.37 | 937 | 0.22 | 0.33 | 51.3 |
| 4/24/2015 22:27:55 | 37.40 | 35.70 | 937 | 0.22 | 0.33 | 51.3 |
| 4/24/2015 22:27:55 | 37.73 | 36.03 | 949 | 0.22 | 0.33 | 51.9 |
| 4/24/2015 22:27:56 | 38.06 | 36.36 | 940 | 0.22 | 0.32 | 51.4 |
| 4/24/2015 22:27:56 | 38.39 | 36.69 | 940 | 0.22 | 0.32 | 51.4 |
| 4/24/2015 22:27:56 | 38.71 | 37.01 | 943 | 0.22 | 0.32 | 51.6 |
| 4/24/2015 22:27:57 | 39.04 | 37.34 | 948 | 0.22 | 0.32 | 51.8 |
| 4/24/2015 22:27:57 | 39.37 | 37.67 | 945 | 0.21 | 0.33 | 51.7 |
| 4/24/2015 22:27:58 | 39.70 | 38.00 | 945 | 0.21 | 0.33 | 51.7 |
| 4/24/2015 22:27:58 | 40.03 | 38.33 | 937 | 0.22 | 0.33 | 51.2 |
| 4/24/2015 22:27:58 | 40.35 | 38.65 | 937 | 0.22 | 0.33 | 51.2 |
| 4/24/2015 22:27:59 | 40.68 | 38.98 | 931 | 0.22 | 0.32 | 50.9 |
| 4/24/2015 22:27:59 | 41.01 | 39.31 | 931 | 0.22 | 0.32 | 50.9 |
| 4/24/2015 22:27:59 | 41.34 | 39.64 | 940 | 0.22 | 0.32 | 51.4 |
| 4/24/2015 22:28:00 | 41.67 | 39.97 | 937 | 0.22 | 0.32 | 51.2 |
| 4/24/2015 22:28:00 | 41.99 | 40.29 | 937 | 0.22 | 0.32 | 51.2 |
| 4/24/2015 22:28:00 | 42.32 | 40.62 | 940 | 0.22 | 0.32 | 51.4 |
| 4/24/2015 22:28:01 | 42.65 | 40.95 | 937 | 0.21 | 0.33 | 51.2 |
| 4/24/2015 22:28:02 | 42.98 | 41.28 | 951 | 0.23 | 0.33 | 52.0 |
| 4/24/2015 22:28:02 | 43.31 | 41.61 | 951 | 0.23 | 0.33 | 52.0 |
| 4/24/2015 22:28:02 | 43.64 | 41.94 | 945 | 0.22 | 0.32 | 51.7 |
| 4/24/2015 22:28:03 | 43.96 | 42.26 | 940 | 0.21 | 0.33 | 51.4 |
| 4/24/2015 22:28:03 | 44.29 | 42.59 | 934 | 0.22 | 0.32 | 51.1 |
| 4/24/2015 22:28:04 | 44.62 | 42.92 | 934 | 0.22 | 0.32 | 51.1 |
| 4/24/2015 22:28:04 | 44.95 | 43.25 | 939 | 0.21 | 0.33 | 51.4 |
| 4/24/2015 22:28:04 | 45.28 | 43.58 | 928 | 0.21 | 0.33 | 50.7 |
| 4/24/2015 22:28:05 | 45.60 | 43.90 | 925 | 0.22 | 0.33 | 50.6 |
| 4/24/2015 22:28:05 | 45.93 | 44.23 | 925 | 0.22 | 0.33 | 50.6 |
| 4/24/2015 22:28:05 | 46.26 | 44.56 | 931 | 0.21 | 0.33 | 50.9 |
| 4/24/2015 22:28:06 | 46.59 | 44.89 | 934 | 0.21 | 0.33 | 51.1 |
| 4/24/2015 22:28:06 | 46.92 | 45.22 | 934 | 0.21 | 0.33 | 51.1 |
| 4/24/2015 22:28:06 | 47.24 | 45.54 | 934 | 0.23 | 0.33 | 51.1 |
| 4/24/2015 22:28:07 | 47.57 | 45.87 | 929 | 0.21 | 0.32 | 50.8 |
| 4/24/2015 22:28:07 | 47.90 | 46.20 | 931 | 0.22 | 0.34 | 50.9 |
| 4/24/2015 22:28:08 | 48.23 | 46.53 | 916 | 0.20 | 0.38 | 50.1 |
| 4/24/2015 22:28:23 | 48.56 | 46.86 | 0 | 4.68 | 0.37 | 0.0 |
| 4/24/2015 22:28:24 | 48.88 | 47.18 | 109 | 3.10 | 0.36 | 6.0 |
| 4/24/2015 22:28:26 | 49.21 | 47.51 | 281 | 4.29 | 0.39 | 15.4 |
| 4/24/2015 22:28:31 | 49.54 | 47.84 | 38 | 3.20 | 0.40 | 2.1 |
| 4/24/2015 22:28:33 | 49.87 | 48.17 | 154 | 5.57 | 0.40 | 8.4 |
| 4/24/2015 22:28:39 | 50.20 | 48.50 | 9 | 3.77 | 0.37 | 0.5 |
| 4/24/2015 22:28:43 | 50.53 | 48.83 | 37 | 3.52 | 0.39 | 2.0 |
| 4/24/2015 22:28:45 | 50.85 | 49.15 | 170 | 3.20 | 0.39 | 9.3 |
| 4/24/2015 22:28:46 | 51.18 | 49.48 | 191 | 3.12 | 0.38 | 10.4 |
| 4/24/2015 22:28:47 | 51.51 | 49.81 | 252 | 2.95 | 0.38 | 13.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:28:49 | 51.84 | 50.14 | 306 | 3.01 | 0.38 | 16.8 |
| 4/24/2015 | 22:28:50 | 52.17 | 50.47 | 298 | 2.86 | 0.37 | 16.3 |
| 4/24/2015 | 22:28:51 | 52.49 | 50.79 | 298 | 2.97 | 0.33 | 16.3 |
| 4/24/2015 | 22:28:52 | 52.82 | 51.12 | 294 | 2.93 | 0.38 | 16.1 |
| 4/24/2015 | 22:28:54 | 53.15 | 51.45 | 306 | 3.51 | 0.38 | 16.7 |
| 4/24/2015 | 22:28:55 | 53.48 | 51.78 | 297 | 3.15 | 0.38 | 16.2 |
| 4/24/2015 | 22:28:56 | 53.81 | 52.11 | 295 | 3.05 | 0.38 | 16.1 |
| 4/24/2015 | 22:28:58 | 54.13 | 52.43 | 227 | 3.18 | 0.39 | 12.4 |
| 4/24/2015 | 22:29:28 | 54.46 | 52.76 | 58 | 3.81 | 0.40 | 3.2 |
| 4/24/2015 | 22:29:34 | 54.79 | 53.09 | 55 | 3.60 | 0.40 | 3.0 |
| 4/24/2015 | 22:29:41 | 55.12 | 53.42 | 55 | 3.93 | 0.40 | 3.0 |
| 4/24/2015 | 22:29:43 | 55.24 | 53.54 | 55 | 4.70 | 0.40 | 3.0 |

## H158 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:25:12

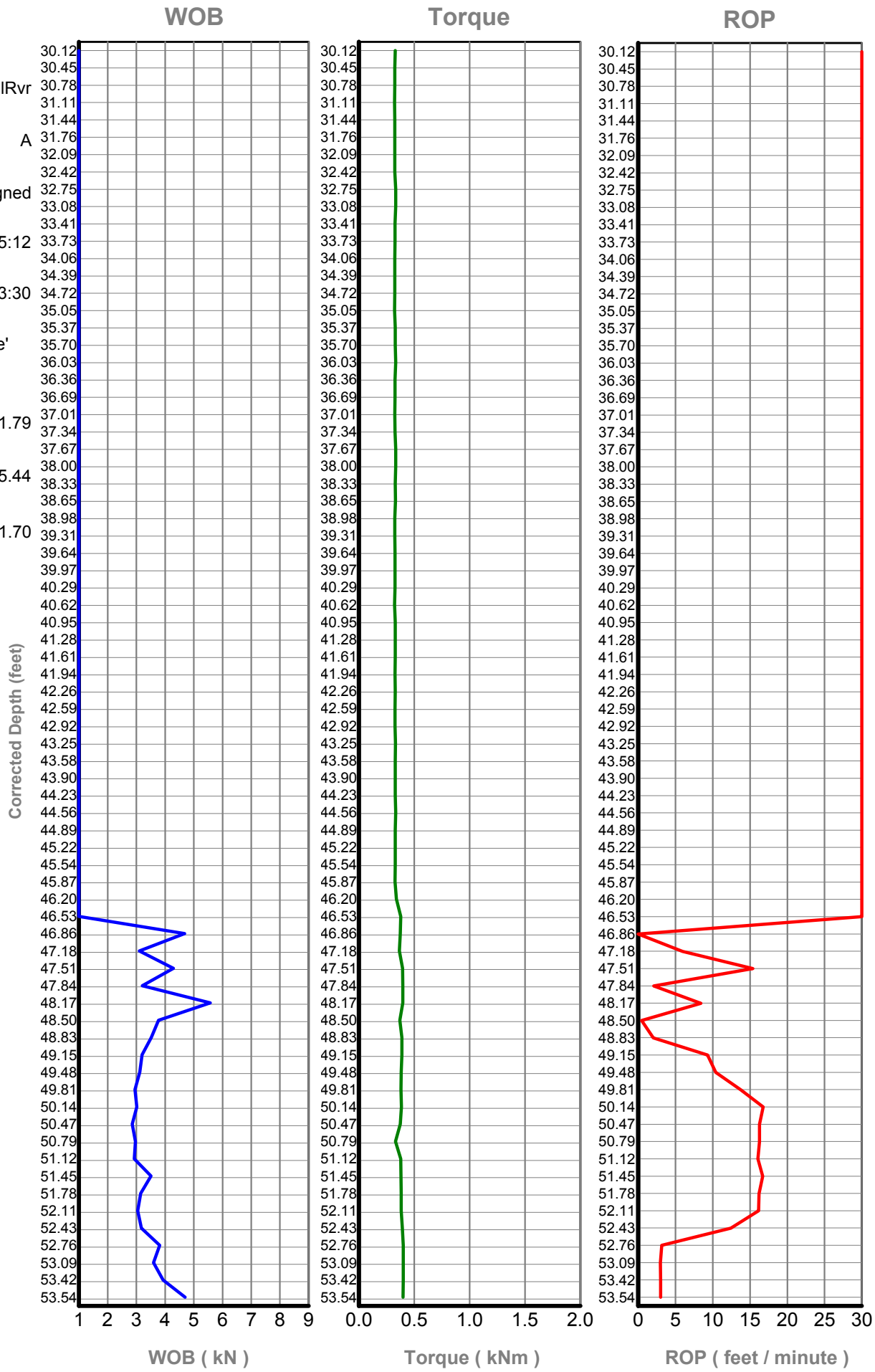
**End Date:**
4/24/2015 22:33:30

**Operator Note:**
'1.7 1.8 b Auto Complete'

**Northing:**
366,871.79

**Easting:**
250,945.44

**Tide (feet):**
1.70



## Hole: H159 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:29:39 | 31.82 | 30.22 | 665 | 1.98 | 0.14 | 36.4 |
| 4/24/2015 22:29:39 | 32.15 | 30.55 | 671 | 1.89 | 0.14 | 36.7 |
| 4/24/2015 22:29:40 | 32.48 | 30.88 | 665 | 1.97 | 0.15 | 36.3 |
| 4/24/2015 22:29:40 | 32.81 | 31.21 | 665 | 1.96 | 0.14 | 36.3 |
| 4/24/2015 22:29:41 | 33.14 | 31.54 | 672 | 1.96 | 0.14 | 36.7 |
| 4/24/2015 22:29:41 | 33.46 | 31.86 | 683 | 1.96 | 0.15 | 37.3 |
| 4/24/2015 22:29:42 | 33.79 | 32.19 | 670 | 1.98 | 0.15 | 36.6 |
| 4/24/2015 22:29:42 | 34.12 | 32.52 | 680 | 1.95 | 0.15 | 37.2 |
| 4/24/2015 22:29:43 | 34.45 | 32.85 | 674 | 1.98 | 0.14 | 36.8 |
| 4/24/2015 22:29:43 | 34.78 | 33.18 | 671 | 1.98 | 0.14 | 36.7 |
| 4/24/2015 22:29:44 | 35.11 | 33.51 | 674 | 1.98 | 0.14 | 36.8 |
| 4/24/2015 22:29:44 | 35.43 | 33.83 | 674 | 1.97 | 0.15 | 36.8 |
| 4/24/2015 22:29:45 | 35.76 | 34.16 | 674 | 1.97 | 0.15 | 36.8 |
| 4/24/2015 22:29:45 | 36.09 | 34.49 | 674 | 1.98 | 0.14 | 36.8 |
| 4/24/2015 22:29:46 | 36.42 | 34.82 | 672 | 1.98 | 0.15 | 36.8 |
| 4/24/2015 22:29:46 | 36.75 | 35.15 | 676 | 1.96 | 0.15 | 37.0 |
| 4/24/2015 22:29:47 | 37.07 | 35.47 | 676 | 1.96 | 0.14 | 37.0 |
| 4/24/2015 22:29:48 | 37.40 | 35.80 | 662 | 1.97 | 0.15 | 36.2 |
| 4/24/2015 22:29:48 | 37.73 | 36.13 | 662 | 1.97 | 0.15 | 36.2 |
| 4/24/2015 22:29:49 | 38.06 | 36.46 | 670 | 1.98 | 0.15 | 36.6 |
| 4/24/2015 22:29:49 | 38.39 | 36.79 | 674 | 1.99 | 0.14 | 36.8 |
| 4/24/2015 22:29:50 | 38.71 | 37.11 | 667 | 1.98 | 0.14 | 36.5 |
| 4/24/2015 22:29:50 | 39.04 | 37.44 | 660 | 1.96 | 0.15 | 36.1 |
| 4/24/2015 22:29:51 | 39.37 | 37.77 | 660 | 1.97 | 0.14 | 36.1 |
| 4/24/2015 22:29:52 | 39.70 | 38.10 | 673 | 1.97 | 0.14 | 36.8 |
| 4/24/2015 22:29:52 | 40.03 | 38.43 | 669 | 1.95 | 0.14 | 36.6 |
| 4/24/2015 22:29:53 | 40.35 | 38.75 | 665 | 1.98 | 0.14 | 36.3 |
| 4/24/2015 22:29:53 | 40.68 | 39.08 | 654 | 1.98 | 0.15 | 35.8 |
| 4/24/2015 22:29:54 | 41.01 | 39.41 | 654 | 1.98 | 0.15 | 35.8 |
| 4/24/2015 22:29:54 | 41.34 | 39.74 | 668 | 1.98 | 0.14 | 36.5 |
| 4/24/2015 22:29:55 | 41.67 | 40.07 | 669 | 1.96 | 0.14 | 36.6 |
| 4/24/2015 22:29:55 | 41.99 | 40.39 | 666 | 1.97 | 0.15 | 36.4 |
| 4/24/2015 22:29:56 | 42.32 | 40.72 | 667 | 1.98 | 0.14 | 36.5 |
| 4/24/2015 22:29:56 | 42.65 | 41.05 | 677 | 1.98 | 0.14 | 37.0 |
| 4/24/2015 22:29:57 | 42.98 | 41.38 | 675 | 1.98 | 0.15 | 36.9 |
| 4/24/2015 22:29:58 | 43.31 | 41.71 | 668 | 1.96 | 0.14 | 36.5 |
| 4/24/2015 22:29:58 | 43.64 | 42.04 | 671 | 1.98 | 0.15 | 36.7 |
| 4/24/2015 22:29:59 | 43.96 | 42.36 | 667 | 1.95 | 0.14 | 36.5 |
| 4/24/2015 22:29:59 | 44.29 | 42.69 | 674 | 1.98 | 0.14 | 36.8 |
| 4/24/2015 22:30:00 | 44.62 | 43.02 | 667 | 1.98 | 0.14 | 36.5 |
| 4/24/2015 22:30:00 | 44.95 | 43.35 | 671 | 1.97 | 0.16 | 36.7 |
| 4/24/2015 22:30:01 | 45.28 | 43.68 | 668 | 1.98 | 0.14 | 36.5 |
| 4/24/2015 22:30:01 | 45.60 | 44.00 | 674 | 1.99 | 0.14 | 36.8 |
| 4/24/2015 22:30:02 | 45.93 | 44.33 | 671 | 1.96 | 0.14 | 36.7 |
| 4/24/2015 22:30:02 | 46.26 | 44.66 | 671 | 1.98 | 0.14 | 36.7 |
| 4/24/2015 22:30:03 | 46.59 | 44.99 | 674 | 1.98 | 0.15 | 36.8 |
| 4/24/2015 22:30:33 | 46.92 | 45.32 | 38 | 1.98 | 1.25 | 2.1 |
| 4/24/2015 22:31:18 | 47.24 | 45.64 | 0 | 2.00 | 1.02 | 0.0 |
| 4/24/2015 22:31:19 | 47.57 | 45.97 | 127 | 1.94 | 1.20 | 6.9 |
| 4/24/2015 22:31:30 | 47.90 | 46.30 | 0 | 1.97 | 1.20 | 0.0 |
| 4/24/2015 22:31:32 | 48.23 | 46.63 | 93 | 1.98 | 1.24 | 5.1 |
| 4/24/2015 22:31:43 | 48.56 | 46.96 | 38 | 1.99 | 1.19 | 2.1 |
| 4/24/2015 22:31:52 | 48.88 | 47.28 | 9 | 1.43 | 1.26 | 0.5 |
| 4/24/2015 22:32:01 | 49.21 | 47.61 | 72 | 1.98 | 1.18 | 4.0 |
| 4/24/2015 22:32:03 | 49.54 | 47.94 | 120 | 1.98 | 1.21 | 6.5 |
| 4/24/2015 22:32:05 | 49.87 | 48.27 | 163 | 1.96 | 1.13 | 8.9 |
| 4/24/2015 22:32:08 | 50.20 | 48.60 | 173 | 1.98 | 1.27 | 9.5 |
| 4/24/2015 22:32:10 | 50.53 | 48.93 | 168 | 1.98 | 1.16 | 9.2 |
| 4/24/2015 22:32:11 | 50.85 | 49.25 | 204 | 1.97 | 1.11 | 11.2 |
| 4/24/2015 22:32:17 | 51.18 | 49.58 | 45 | 1.96 | 1.15 | 2.5 |
| 4/24/2015 22:32:24 | 51.51 | 49.91 | 0 | 1.99 | 0.96 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:32:25 | 51.84 | 50.24 | 181 | 1.98 | 1.01 | 9.9 |
| 4/24/2015 | 22:32:44 | 52.17 | 50.57 | 0 | 1.99 | 1.30 | 0.0 |
| 4/24/2015 | 22:32:49 | 52.49 | 50.89 | 71 | 1.98 | 1.23 | 3.9 |
| 4/24/2015 | 22:32:53 | 52.82 | 51.22 | 78 | 1.99 | 1.21 | 4.3 |
| 4/24/2015 | 22:32:58 | 53.15 | 51.55 | 75 | 2.01 | 1.19 | 4.1 |
| 4/24/2015 | 22:33:05 | 53.48 | 51.88 | 55 | 1.99 | 1.25 | 3.0 |
| 4/24/2015 | 22:33:10 | 53.81 | 52.21 | 72 | 2.00 | 1.17 | 4.0 |

## H159 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:27:51

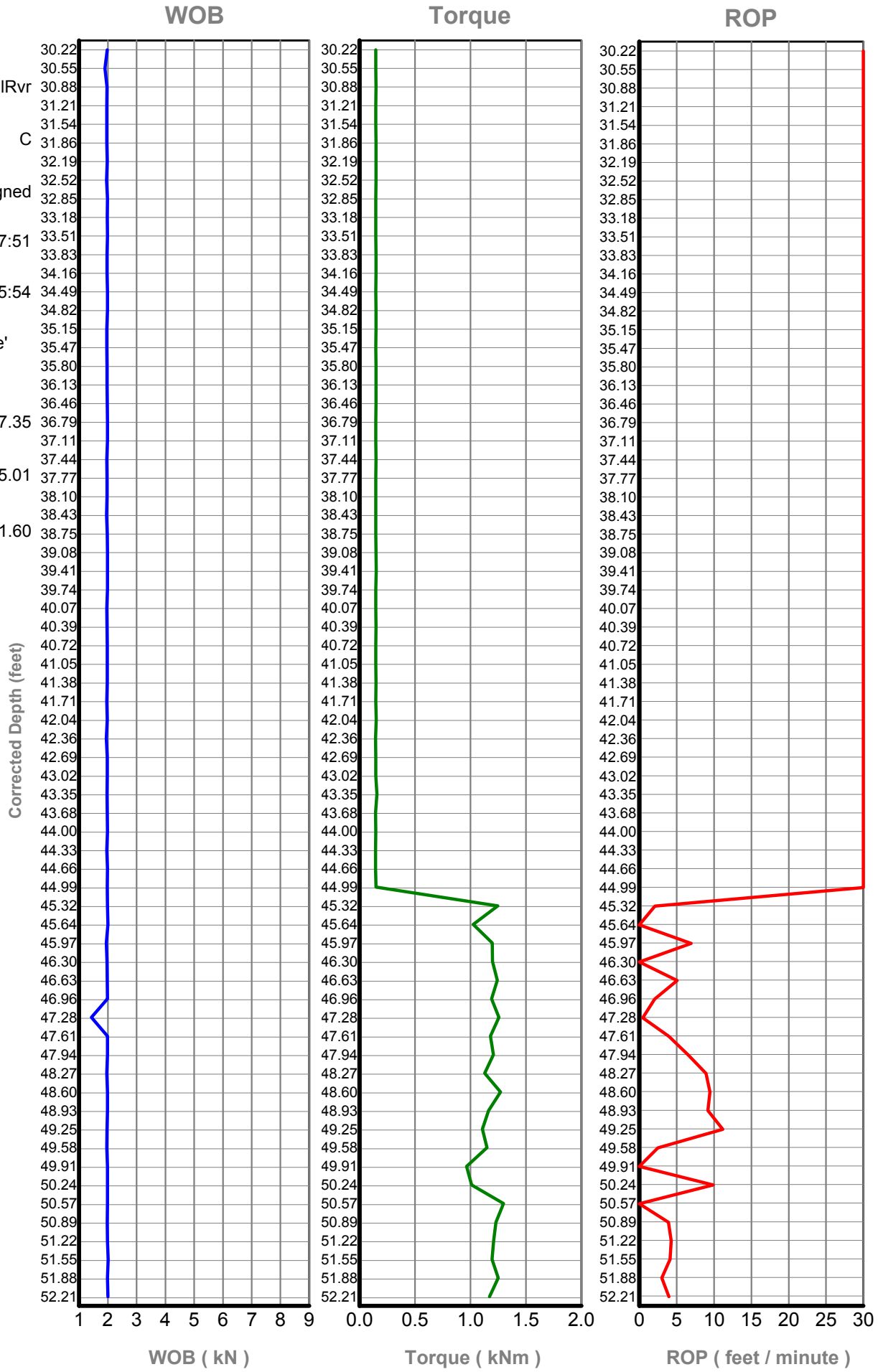
**End Date:**
4/24/2015 22:35:54

**Operator Note:**
'1.6 1.8 c Auto Complete'

**Northing:**
366,917.35

**Easting:**
251,005.01

**Tide (feet):**
1.60



## Hole: H16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:50:52 | 31.82 | 30.22 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/26/2015 12:50:53 | 32.15 | 30.55 | 1,000 | 0.32 | 0.31 | 54.7 |
| 4/26/2015 12:50:53 | 32.48 | 30.88 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 12:50:54 | 32.81 | 31.21 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 12:50:54 | 33.14 | 31.54 | 999 | 0.32 | 0.32 | 54.6 |
| 4/26/2015 12:50:54 | 33.46 | 31.86 | 999 | 0.31 | 0.32 | 54.6 |
| 4/26/2015 12:50:55 | 33.79 | 32.19 | 999 | 0.31 | 0.32 | 54.6 |
| 4/26/2015 12:50:55 | 34.12 | 32.52 | 1,024 | 0.32 | 0.30 | 56.0 |
| 4/26/2015 12:50:55 | 34.45 | 32.85 | 977 | 0.33 | 0.32 | 53.5 |
| 4/26/2015 12:50:56 | 34.78 | 33.18 | 977 | 0.33 | 0.32 | 53.5 |
| 4/26/2015 12:50:56 | 35.11 | 33.51 | 977 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 12:50:56 | 35.43 | 33.83 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 12:50:57 | 35.76 | 34.16 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 12:50:57 | 36.09 | 34.49 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 12:50:57 | 36.42 | 34.82 | 1,013 | 0.31 | 0.31 | 55.4 |
| 4/26/2015 12:50:58 | 36.75 | 35.15 | 1,013 | 0.31 | 0.31 | 55.4 |
| 4/26/2015 12:50:58 | 37.07 | 35.47 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 12:50:58 | 37.40 | 35.80 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/26/2015 12:50:59 | 37.73 | 36.13 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/26/2015 12:50:59 | 38.06 | 36.46 | 979 | 0.32 | 0.31 | 53.5 |
| 4/26/2015 12:50:59 | 38.39 | 36.79 | 979 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 12:51:00 | 38.71 | 37.11 | 979 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 12:51:00 | 39.04 | 37.44 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/26/2015 12:51:00 | 39.37 | 37.77 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 12:51:01 | 39.70 | 38.10 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 12:51:01 | 40.03 | 38.43 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 12:51:01 | 40.35 | 38.75 | 988 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 12:51:02 | 40.68 | 39.08 | 988 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 12:51:02 | 41.01 | 39.41 | 988 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 12:51:03 | 41.34 | 39.74 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:51:03 | 41.67 | 40.07 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 12:51:03 | 41.99 | 40.39 | 1,022 | 0.31 | 0.33 | 55.9 |
| 4/26/2015 12:51:04 | 42.32 | 40.72 | 1,036 | 0.29 | 0.37 | 56.7 |
| 4/26/2015 12:51:08 | 42.65 | 41.05 | 89 | 5.80 | 0.40 | 4.8 |
| 4/26/2015 12:51:11 | 42.98 | 41.38 | 110 | 4.06 | 0.37 | 6.0 |
| 4/26/2015 12:51:13 | 43.31 | 41.71 | 117 | 4.25 | 0.36 | 6.4 |
| 4/26/2015 12:51:17 | 43.64 | 42.04 | 0 | 3.86 | 0.37 | 0.0 |
| 4/26/2015 12:51:18 | 43.96 | 42.36 | 85 | 4.45 | 0.37 | 4.7 |
| 4/26/2015 12:51:25 | 44.29 | 42.69 | 0 | 6.81 | 0.38 | 0.0 |
| 4/26/2015 12:51:37 | 44.62 | 43.02 | 68 | 4.19 | 0.37 | 3.7 |
| 4/26/2015 12:51:38 | 44.95 | 43.35 | 141 | 3.75 | 0.37 | 7.7 |
| 4/26/2015 12:51:39 | 45.28 | 43.68 | 229 | 3.85 | 0.36 | 12.5 |
| 4/26/2015 12:51:46 | 45.60 | 44.00 | 60 | 5.24 | 0.37 | 3.3 |
| 4/26/2015 12:51:52 | 45.93 | 44.33 | 75 | 4.00 | 0.37 | 4.1 |
| 4/26/2015 12:51:53 | 46.26 | 44.66 | 260 | 2.80 | 0.36 | 14.2 |
| 4/26/2015 12:52:00 | 46.59 | 44.99 | 0 | 2.12 | 0.33 | 0.0 |
| 4/26/2015 12:52:01 | 46.92 | 45.32 | 160 | 5.59 | 0.38 | 8.7 |
| 4/26/2015 12:52:02 | 47.24 | 45.64 | 249 | 2.69 | 0.36 | 13.6 |
| 4/26/2015 12:52:11 | 47.57 | 45.97 | 12 | 4.02 | 0.38 | 0.6 |
| 4/26/2015 12:52:18 | 47.90 | 46.30 | 0 | 3.28 | 0.37 | 0.0 |
| 4/26/2015 12:52:19 | 48.23 | 46.63 | 77 | 2.86 | 0.36 | 4.2 |
| 4/26/2015 12:52:19 | 48.56 | 46.96 | 185 | 2.17 | 0.35 | 10.1 |
| 4/26/2015 12:52:27 | 48.88 | 47.28 | 36 | 2.33 | 0.36 | 2.0 |
| 4/26/2015 12:52:27 | 49.21 | 47.61 | 136 | 2.35 | 0.36 | 7.5 |
| 4/26/2015 12:52:28 | 49.54 | 47.94 | 230 | 2.43 | 0.37 | 12.6 |
| 4/26/2015 12:52:29 | 49.87 | 48.27 | 410 | 2.30 | 0.36 | 22.4 |
| 4/26/2015 12:52:29 | 50.20 | 48.60 | 474 | 2.21 | 0.36 | 25.9 |
| 4/26/2015 12:52:31 | 50.53 | 48.93 | 367 | 4.76 | 0.39 | 20.1 |
| 4/26/2015 12:52:32 | 50.85 | 49.25 | 313 | 3.77 | 0.37 | 17.1 |
| 4/26/2015 12:52:33 | 51.18 | 49.58 | 267 | 3.07 | 0.36 | 14.6 |
| 4/26/2015 12:52:34 | 51.51 | 49.91 | 359 | 3.37 | 0.38 | 19.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 12:53:09 | 51.84 | 50.24 | 11 | 3.32 | 0.39 | 0.6 |
| 4/26/2015 | 12:53:14 | 52.17 | 50.57 | 40 | 3.33 | 0.37 | 2.2 |
| 4/26/2015 | 12:53:15 | 52.49 | 50.89 | 196 | 2.36 | 0.36 | 10.7 |
| 4/26/2015 | 12:53:21 | 52.82 | 51.22 | 0 | 2.71 | 0.35 | 0.0 |
| 4/26/2015 | 12:53:22 | 53.15 | 51.55 | 183 | 2.57 | 0.37 | 10.0 |
| 4/26/2015 | 12:53:23 | 53.48 | 51.88 | 328 | 2.98 | 0.39 | 17.9 |
| 4/26/2015 | 12:53:33 | 53.81 | 52.21 | 0 | 4.00 | 0.37 | 0.0 |
| 4/26/2015 | 12:53:36 | 54.13 | 52.53 | 118 | 3.18 | 0.39 | 6.5 |
| 4/26/2015 | 12:53:42 | 54.46 | 52.86 | 56 | 3.15 | 0.39 | 3.1 |
| 4/26/2015 | 12:53:45 | 54.79 | 53.19 | 114 | 3.26 | 0.39 | 6.3 |
| 4/26/2015 | 12:53:50 | 55.12 | 53.52 | 87 | 3.15 | 0.39 | 4.7 |
| 4/26/2015 | 12:53:51 | 55.45 | 53.85 | 182 | 3.49 | 0.38 | 9.9 |
| 4/26/2015 | 12:53:54 | 55.77 | 54.17 | 159 | 3.20 | 0.39 | 8.7 |
| 4/26/2015 | 12:54:01 | 56.10 | 54.50 | 107 | 2.88 | 0.40 | 5.8 |
| 4/26/2015 | 12:54:07 | 56.43 | 54.83 | 29 | 3.60 | 0.39 | 1.6 |
| 4/26/2015 | 12:54:11 | 56.76 | 55.16 | 83 | 3.58 | 0.39 | 4.5 |
| 4/26/2015 | 12:54:12 | 56.81 | 55.21 | 83 | 3.62 | 0.39 | 4.5 |

## H16 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 12:47:57

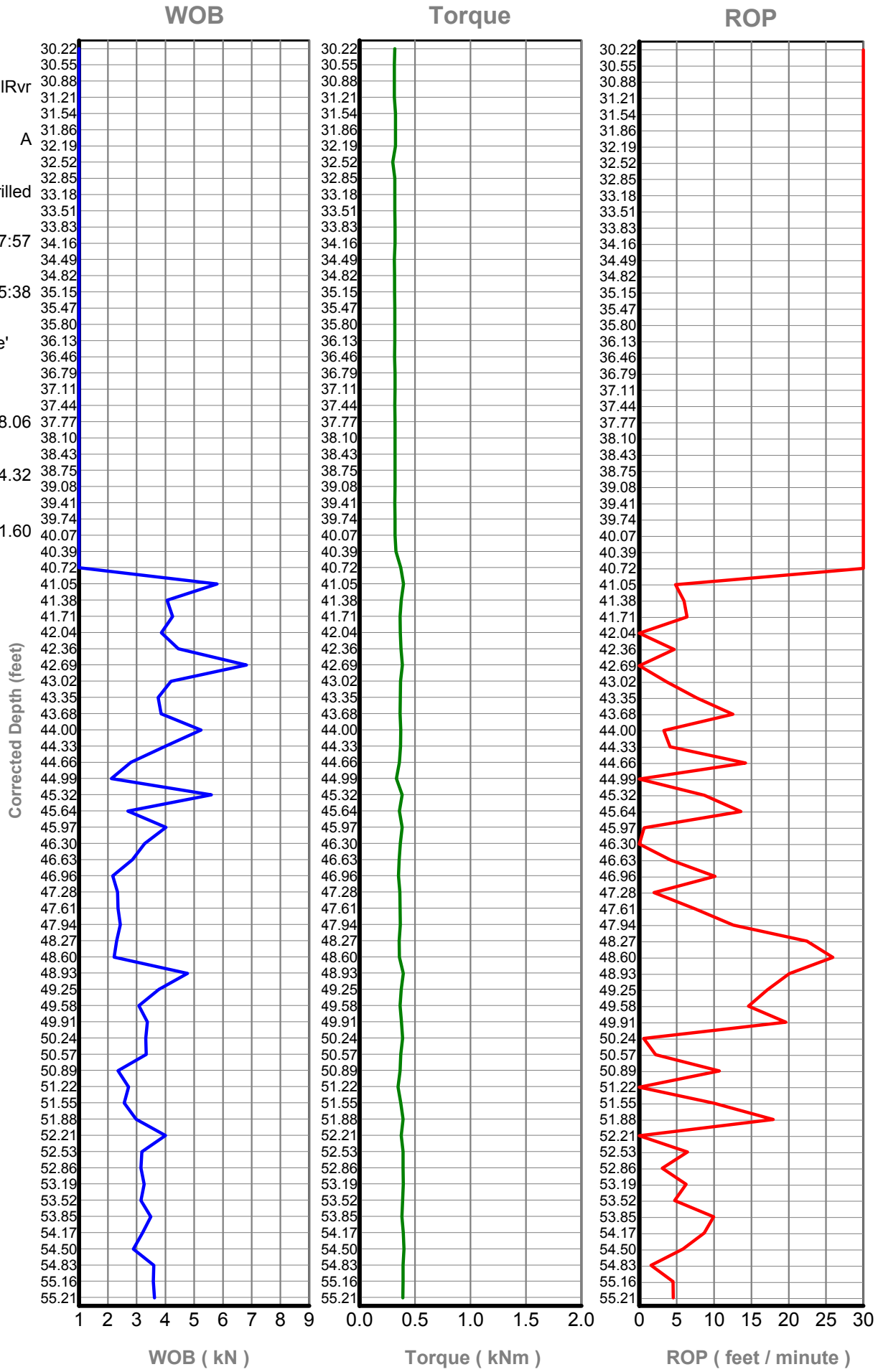
**End Date:**
4/26/2015 12:55:38

**Operator Note:**
'1.6 1.8 b Auto Complete'

**Northing:**
366,318.06

**Easting:**
249,884.32

**Tide (feet):**
1.60



## Hole: H160 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:16:16 | 32.48 | 30.08 | 870 | 0.47 | 0.33 | 47.6 |
| 4/24/2015 9:16:16 | 32.81 | 30.41 | 862 | 0.49 | 0.33 | 47.1 |
| 4/24/2015 9:16:17 | 33.14 | 30.74 | 862 | 0.49 | 0.33 | 47.1 |
| 4/24/2015 9:16:17 | 33.46 | 31.06 | 869 | 0.50 | 0.32 | 47.5 |
| 4/24/2015 9:16:17 | 33.79 | 31.39 | 856 | 0.48 | 0.33 | 46.8 |
| 4/24/2015 9:16:18 | 34.12 | 31.72 | 856 | 0.48 | 0.33 | 46.8 |
| 4/24/2015 9:16:18 | 34.45 | 32.05 | 856 | 0.46 | 0.33 | 46.8 |
| 4/24/2015 9:16:19 | 34.78 | 32.38 | 856 | 0.46 | 0.33 | 46.8 |
| 4/24/2015 9:16:19 | 35.11 | 32.71 | 856 | 0.34 | 0.32 | 46.8 |
| 4/24/2015 9:16:19 | 35.43 | 33.03 | 856 | 0.35 | 0.33 | 46.8 |
| 4/24/2015 9:16:20 | 35.76 | 33.36 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 9:16:20 | 36.09 | 33.69 | 873 | 0.35 | 0.33 | 47.7 |
| 4/24/2015 9:16:21 | 36.42 | 34.02 | 873 | 0.35 | 0.33 | 47.7 |
| 4/24/2015 9:16:21 | 36.75 | 34.35 | 879 | 0.35 | 0.32 | 48.1 |
| 4/24/2015 9:16:21 | 37.07 | 34.67 | 890 | 0.34 | 0.33 | 48.7 |
| 4/24/2015 9:16:22 | 37.40 | 35.00 | 885 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 9:16:23 | 37.73 | 35.33 | 885 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 9:16:23 | 38.06 | 35.66 | 882 | 0.35 | 0.32 | 48.2 |
| 4/24/2015 9:16:23 | 38.39 | 35.99 | 888 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:16:24 | 38.71 | 36.31 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:16:24 | 39.04 | 36.64 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:16:25 | 39.37 | 36.97 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:16:25 | 39.70 | 37.30 | 891 | 0.36 | 0.32 | 48.7 |
| 4/24/2015 9:16:25 | 40.03 | 37.63 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:16:26 | 40.35 | 37.95 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:16:26 | 40.68 | 38.28 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:16:26 | 41.01 | 38.61 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:16:27 | 41.34 | 38.94 | 897 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:16:27 | 41.67 | 39.27 | 907 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:16:28 | 41.99 | 39.59 | 907 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:16:28 | 42.32 | 39.92 | 902 | 0.35 | 0.33 | 49.3 |
| 4/24/2015 9:16:28 | 42.65 | 40.25 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:16:29 | 42.98 | 40.58 | 896 | 0.35 | 0.33 | 49.0 |
| 4/24/2015 9:16:29 | 43.31 | 40.91 | 896 | 0.35 | 0.33 | 49.0 |
| 4/24/2015 9:16:29 | 43.64 | 41.24 | 899 | 0.34 | 0.32 | 49.2 |
| 4/24/2015 9:16:30 | 43.96 | 41.56 | 891 | 0.35 | 0.33 | 48.7 |
| 4/24/2015 9:16:30 | 44.29 | 41.89 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:16:31 | 44.62 | 42.22 | 877 | 0.34 | 0.32 | 47.9 |
| 4/24/2015 9:16:31 | 44.95 | 42.55 | 877 | 0.34 | 0.32 | 47.9 |
| 4/24/2015 9:16:31 | 45.28 | 42.88 | 894 | 0.35 | 0.32 | 48.9 |
| 4/24/2015 9:16:32 | 45.60 | 43.20 | 894 | 0.35 | 0.32 | 48.9 |
| 4/24/2015 9:16:33 | 45.93 | 43.53 | 899 | 0.36 | 0.33 | 49.2 |
| 4/24/2015 9:16:33 | 46.26 | 43.86 | 899 | 0.36 | 0.33 | 49.2 |
| 4/24/2015 9:16:33 | 46.59 | 44.19 | 888 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 9:16:34 | 46.92 | 44.52 | 893 | 0.35 | 0.33 | 48.9 |
| 4/24/2015 9:16:34 | 47.24 | 44.84 | 882 | 0.33 | 0.36 | 48.2 |
| 4/24/2015 9:16:56 | 47.57 | 45.17 | 0 | 7.50 | 0.35 | 0.0 |
| 4/24/2015 9:16:57 | 47.90 | 45.50 | 52 | 4.59 | 0.34 | 2.9 |
| 4/24/2015 9:16:57 | 48.23 | 45.83 | 158 | 5.06 | 0.36 | 8.7 |
| 4/24/2015 9:17:00 | 48.56 | 46.16 | 312 | 5.30 | 0.39 | 17.0 |
| 4/24/2015 9:17:01 | 48.88 | 46.48 | 154 | 3.79 | 0.35 | 8.4 |
| 4/24/2015 9:17:02 | 49.21 | 46.81 | 233 | 2.88 | 0.37 | 12.7 |
| 4/24/2015 9:17:10 | 49.54 | 47.14 | 54 | 4.31 | 0.39 | 3.0 |
| 4/24/2015 9:17:17 | 49.87 | 47.47 | 52 | 3.33 | 0.39 | 2.8 |
| 4/24/2015 9:17:25 | 50.20 | 47.80 | 50 | 3.26 | 0.39 | 2.7 |
| 4/24/2015 9:17:33 | 50.53 | 48.13 | 46 | 3.22 | 0.40 | 2.5 |
| 4/24/2015 9:17:34 | 50.61 | 48.21 | 44 | 3.42 | 0.39 | 2.4 |

## H160 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:13:49

**End Date:**
4/24/2015 9:18:45

**Operator Note:**
'2.4 2.3 b Rock'

**Northing:**
366,984.81

**Easting:**
251,073.75

**Tide (feet):**
2.40



## Hole: H161 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:21:02 | 32.48 | 30.18 | 880 | 0.37 | 0.32 | 48.1 |
| 4/24/2015 9:21:02 | 32.81 | 30.51 | 895 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:21:03 | 33.14 | 30.84 | 895 | 0.35 | 0.32 | 48.9 |
| 4/24/2015 9:21:04 | 33.46 | 31.16 | 901 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:04 | 33.79 | 31.49 | 901 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:04 | 34.12 | 31.82 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:21:05 | 34.45 | 32.15 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 9:21:05 | 34.78 | 32.48 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 9:21:06 | 35.11 | 32.81 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 9:21:06 | 35.43 | 33.13 | 888 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 9:21:06 | 35.76 | 33.46 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:07 | 36.09 | 33.79 | 902 | 0.35 | 0.33 | 49.3 |
| 4/24/2015 9:21:07 | 36.42 | 34.12 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 9:21:08 | 36.75 | 34.45 | 899 | 0.35 | 0.33 | 49.2 |
| 4/24/2015 9:21:08 | 37.07 | 34.77 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:08 | 37.40 | 35.10 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:09 | 37.73 | 35.43 | 909 | 0.35 | 0.32 | 49.7 |
| 4/24/2015 9:21:09 | 38.06 | 35.76 | 909 | 0.35 | 0.32 | 49.7 |
| 4/24/2015 9:21:09 | 38.39 | 36.09 | 900 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:10 | 38.71 | 36.41 | 900 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:10 | 39.04 | 36.74 | 906 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:21:11 | 39.37 | 37.07 | 906 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:21:11 | 39.70 | 37.40 | 903 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 9:21:11 | 40.03 | 37.73 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:12 | 40.35 | 38.05 | 899 | 0.34 | 0.33 | 49.2 |
| 4/24/2015 9:21:12 | 40.68 | 38.38 | 899 | 0.34 | 0.33 | 49.2 |
| 4/24/2015 9:21:12 | 41.01 | 38.71 | 891 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:21:13 | 41.34 | 39.04 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:14 | 41.67 | 39.37 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:14 | 41.99 | 39.69 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:14 | 42.32 | 40.02 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:15 | 42.65 | 40.35 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:21:15 | 42.98 | 40.68 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:21:16 | 43.31 | 41.01 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:16 | 43.64 | 41.34 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:16 | 43.96 | 41.66 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:21:17 | 44.29 | 41.99 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:21:17 | 44.62 | 42.32 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:21:18 | 44.95 | 42.65 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:21:18 | 45.28 | 42.98 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:21:18 | 45.60 | 43.30 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 9:21:19 | 45.93 | 43.63 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:19 | 46.26 | 43.96 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:19 | 46.59 | 44.29 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:20 | 46.92 | 44.62 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 9:21:20 | 47.24 | 44.94 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:21 | 47.57 | 45.27 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 9:21:21 | 47.90 | 45.60 | 878 | 0.35 | 0.33 | 48.0 |
| 4/24/2015 9:21:21 | 48.23 | 45.93 | 878 | 0.35 | 0.32 | 48.0 |
| 4/24/2015 9:21:22 | 48.56 | 46.26 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:21:23 | 48.88 | 46.58 | 890 | 0.31 | 0.32 | 48.7 |
| 4/24/2015 9:21:23 | 49.21 | 46.91 | 890 | 0.31 | 0.32 | 48.7 |
| 4/24/2015 9:21:23 | 49.54 | 47.24 | 863 | 0.35 | 0.34 | 47.2 |
| 4/24/2015 9:21:35 | 49.87 | 47.57 | 87 | 4.00 | 0.40 | 4.7 |
| 4/24/2015 9:22:01 | 50.20 | 47.90 | 23 | 4.39 | 0.39 | 1.3 |
| 4/24/2015 9:22:15 | 50.53 | 48.23 | 12 | 3.37 | 0.37 | 0.6 |
| 4/24/2015 9:22:18 | 50.85 | 48.55 | 129 | 5.25 | 0.37 | 7.1 |
| 4/24/2015 9:22:19 | 51.18 | 48.88 | 240 | 4.91 | 0.38 | 13.1 |
| 4/24/2015 9:22:25 | 51.51 | 49.21 | 30 | 7.40 | 0.38 | 1.6 |
| 4/24/2015 9:22:28 | 51.84 | 49.54 | 117 | 3.91 | 0.40 | 6.4 |
| 4/24/2015 9:22:37 | 52.17 | 49.87 | 42 | 3.80 | 0.40 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:22:45 | 52.49 | 50.19 | 40 | 3.41 | 0.39 | 2.2 |
| 4/24/2015 | 9:22:50 | 52.69 | 50.39 | 43 | 3.48 | 0.39 | 2.4 |

## H161 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:18:51

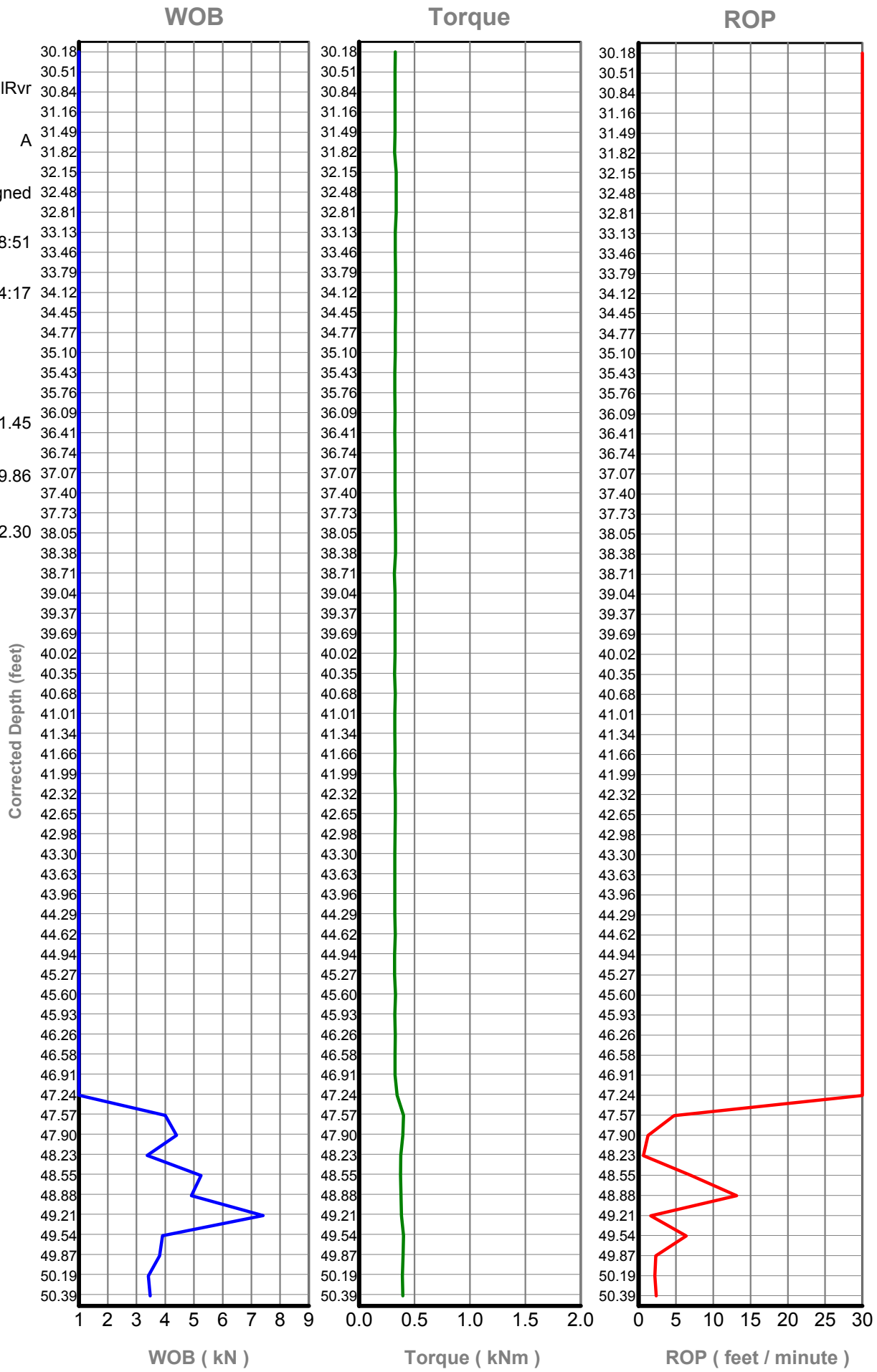
**End Date:**
4/24/2015 9:24:17

**Operator Note:**
'2.3 2.2 b Rock'

**Northing:**
367,021.45

**Easting:**
251,119.86

**Tide (feet):**
2.30



## Hole: H162 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:17:35 | 32.48 | 30.08 | 619 | 1.98 | 0.33 | 33.9 |
| 4/24/2015 9:17:36 | 32.81 | 30.41 | 616 | 1.98 | 0.33 | 33.7 |
| 4/24/2015 9:17:36 | 33.14 | 30.74 | 613 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:17:37 | 33.46 | 31.06 | 613 | 1.98 | 0.33 | 33.5 |
| 4/24/2015 9:17:38 | 33.79 | 31.39 | 612 | 1.99 | 0.32 | 33.5 |
| 4/24/2015 9:17:38 | 34.12 | 31.72 | 603 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:39 | 34.45 | 32.05 | 603 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:40 | 34.78 | 32.38 | 602 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:40 | 35.11 | 32.71 | 602 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:41 | 35.43 | 33.03 | 607 | 2.00 | 0.32 | 33.2 |
| 4/24/2015 9:17:41 | 35.76 | 33.36 | 610 | 2.16 | 0.32 | 33.4 |
| 4/24/2015 9:17:42 | 36.09 | 33.69 | 621 | 1.98 | 0.32 | 33.9 |
| 4/24/2015 9:17:43 | 36.42 | 34.02 | 624 | 1.93 | 0.32 | 34.1 |
| 4/24/2015 9:17:43 | 36.75 | 34.35 | 612 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:17:44 | 37.07 | 34.67 | 616 | 1.93 | 0.32 | 33.7 |
| 4/24/2015 9:17:44 | 37.40 | 35.00 | 617 | 1.98 | 0.32 | 33.7 |
| 4/24/2015 9:17:45 | 37.73 | 35.33 | 609 | 1.97 | 0.32 | 33.3 |
| 4/24/2015 9:17:45 | 38.06 | 35.66 | 603 | 1.98 | 0.33 | 33.0 |
| 4/24/2015 9:17:46 | 38.39 | 35.99 | 613 | 1.99 | 0.33 | 33.5 |
| 4/24/2015 9:17:46 | 38.71 | 36.31 | 613 | 1.96 | 0.32 | 33.5 |
| 4/24/2015 9:17:47 | 39.04 | 36.64 | 613 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:17:48 | 39.37 | 36.97 | 624 | 2.00 | 0.32 | 34.1 |
| 4/24/2015 9:17:48 | 39.70 | 37.30 | 613 | 1.97 | 0.32 | 33.5 |
| 4/24/2015 9:17:49 | 40.03 | 37.63 | 613 | 1.97 | 0.32 | 33.5 |
| 4/24/2015 9:17:50 | 40.35 | 37.95 | 606 | 1.98 | 0.32 | 33.2 |
| 4/24/2015 9:17:50 | 40.68 | 38.28 | 620 | 1.98 | 0.32 | 33.9 |
| 4/24/2015 9:17:51 | 41.01 | 38.61 | 617 | 1.99 | 0.32 | 33.7 |
| 4/24/2015 9:17:51 | 41.34 | 38.94 | 617 | 1.98 | 0.32 | 33.7 |
| 4/24/2015 9:17:52 | 41.67 | 39.27 | 624 | 1.98 | 0.32 | 34.1 |
| 4/24/2015 9:17:53 | 41.99 | 39.59 | 610 | 1.99 | 0.32 | 33.4 |
| 4/24/2015 9:17:53 | 42.32 | 39.92 | 610 | 1.98 | 0.32 | 33.4 |
| 4/24/2015 9:17:54 | 42.65 | 40.25 | 603 | 1.97 | 0.32 | 33.0 |
| 4/24/2015 9:17:54 | 42.98 | 40.58 | 614 | 1.98 | 0.32 | 33.6 |
| 4/24/2015 9:17:55 | 43.31 | 40.91 | 600 | 1.98 | 0.32 | 32.8 |
| 4/24/2015 9:17:55 | 43.64 | 41.24 | 600 | 1.96 | 0.32 | 32.8 |
| 4/24/2015 9:17:56 | 43.96 | 41.56 | 608 | 1.98 | 0.32 | 33.2 |
| 4/24/2015 9:17:57 | 44.29 | 41.89 | 602 | 1.94 | 0.32 | 32.9 |
| 4/24/2015 9:17:57 | 44.62 | 42.22 | 602 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:58 | 44.95 | 42.55 | 602 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:17:58 | 45.28 | 42.88 | 612 | 1.97 | 0.32 | 33.5 |
| 4/24/2015 9:17:59 | 45.60 | 43.20 | 608 | 1.96 | 0.32 | 33.3 |
| 4/24/2015 9:18:00 | 45.93 | 43.53 | 605 | 1.98 | 0.32 | 33.1 |
| 4/24/2015 9:18:00 | 46.26 | 43.86 | 617 | 1.98 | 0.32 | 33.8 |
| 4/24/2015 9:18:01 | 46.59 | 44.19 | 613 | 1.97 | 0.32 | 33.5 |
| 4/24/2015 9:18:01 | 46.92 | 44.52 | 610 | 1.96 | 0.32 | 33.4 |
| 4/24/2015 9:18:02 | 47.24 | 44.84 | 610 | 1.99 | 0.32 | 33.4 |
| 4/24/2015 9:18:03 | 47.57 | 45.17 | 616 | 1.98 | 0.32 | 33.7 |
| 4/24/2015 9:18:03 | 47.90 | 45.50 | 610 | 1.98 | 0.32 | 33.4 |
| 4/24/2015 9:18:04 | 48.23 | 45.83 | 614 | 1.98 | 0.32 | 33.6 |
| 4/24/2015 9:18:04 | 48.56 | 46.16 | 610 | 1.96 | 0.32 | 33.4 |
| 4/24/2015 9:18:05 | 48.88 | 46.48 | 613 | 1.96 | 0.32 | 33.5 |
| 4/24/2015 9:18:05 | 49.21 | 46.81 | 606 | 1.99 | 0.32 | 33.2 |
| 4/24/2015 9:18:06 | 49.54 | 47.14 | 610 | 1.97 | 0.33 | 33.4 |
| 4/24/2015 9:18:07 | 49.87 | 47.47 | 610 | 1.96 | 0.32 | 33.4 |
| 4/24/2015 9:18:29 | 50.20 | 47.80 | 3 | 1.96 | 1.26 | 0.2 |
| 4/24/2015 9:18:30 | 50.53 | 48.13 | 153 | 1.98 | 1.21 | 8.4 |
| 4/24/2015 9:18:36 | 50.85 | 48.45 | 3 | 1.93 | 1.54 | 0.2 |
| 4/24/2015 9:18:38 | 51.18 | 48.78 | 122 | 1.97 | 1.20 | 6.7 |
| 4/24/2015 9:18:39 | 51.51 | 49.11 | 215 | 1.98 | 1.21 | 11.7 |
| 4/24/2015 9:18:40 | 51.84 | 49.44 | 289 | 1.97 | 1.09 | 15.8 |
| 4/24/2015 9:18:42 | 52.17 | 49.77 | 342 | 2.00 | 1.13 | 18.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:18:43 | 52.49 | 50.09 | 347 | 1.98 | 1.11 | 19.0 |
| 4/24/2015 | 9:18:44 | 52.82 | 50.42 | 325 | 2.01 | 1.06 | 17.8 |
| 4/24/2015 | 9:18:45 | 53.15 | 50.75 | 321 | 1.99 | 1.08 | 17.5 |
| 4/24/2015 | 9:18:46 | 53.48 | 51.08 | 336 | 1.96 | 1.06 | 18.4 |
| 4/24/2015 | 9:18:47 | 53.81 | 51.41 | 350 | 1.98 | 1.08 | 19.1 |
| 4/24/2015 | 9:18:48 | 54.13 | 51.73 | 301 | 1.98 | 1.07 | 16.5 |
| 4/24/2015 | 9:18:49 | 54.46 | 52.06 | 288 | 1.98 | 1.06 | 15.7 |
| 4/24/2015 | 9:18:51 | 54.79 | 52.39 | 263 | 1.98 | 1.13 | 14.4 |
| 4/24/2015 | 9:18:52 | 55.12 | 52.72 | 247 | 1.97 | 1.08 | 13.5 |
| 4/24/2015 | 9:18:54 | 55.45 | 53.05 | 263 | 1.98 | 1.08 | 14.4 |
| 4/24/2015 | 9:19:05 | 55.77 | 53.37 | 0 | 1.98 | 1.38 | 0.0 |
| 4/24/2015 | 9:19:08 | 56.10 | 53.70 | 144 | 1.96 | 1.32 | 7.9 |
| 4/24/2015 | 9:19:13 | 56.43 | 54.03 | 45 | 1.99 | 1.23 | 2.4 |
| 4/24/2015 | 9:19:19 | 56.76 | 54.36 | 60 | 1.99 | 1.34 | 3.3 |
| 4/24/2015 | 9:19:27 | 57.09 | 54.69 | 46 | 1.98 | 1.22 | 2.5 |
| 4/24/2015 | 9:19:36 | 57.41 | 55.01 | 41 | 2.00 | 1.18 | 2.2 |
| 4/24/2015 | 9:19:43 | 57.72 | 55.32 | 44 | 2.00 | 1.26 | 2.4 |

## H162 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:15:49

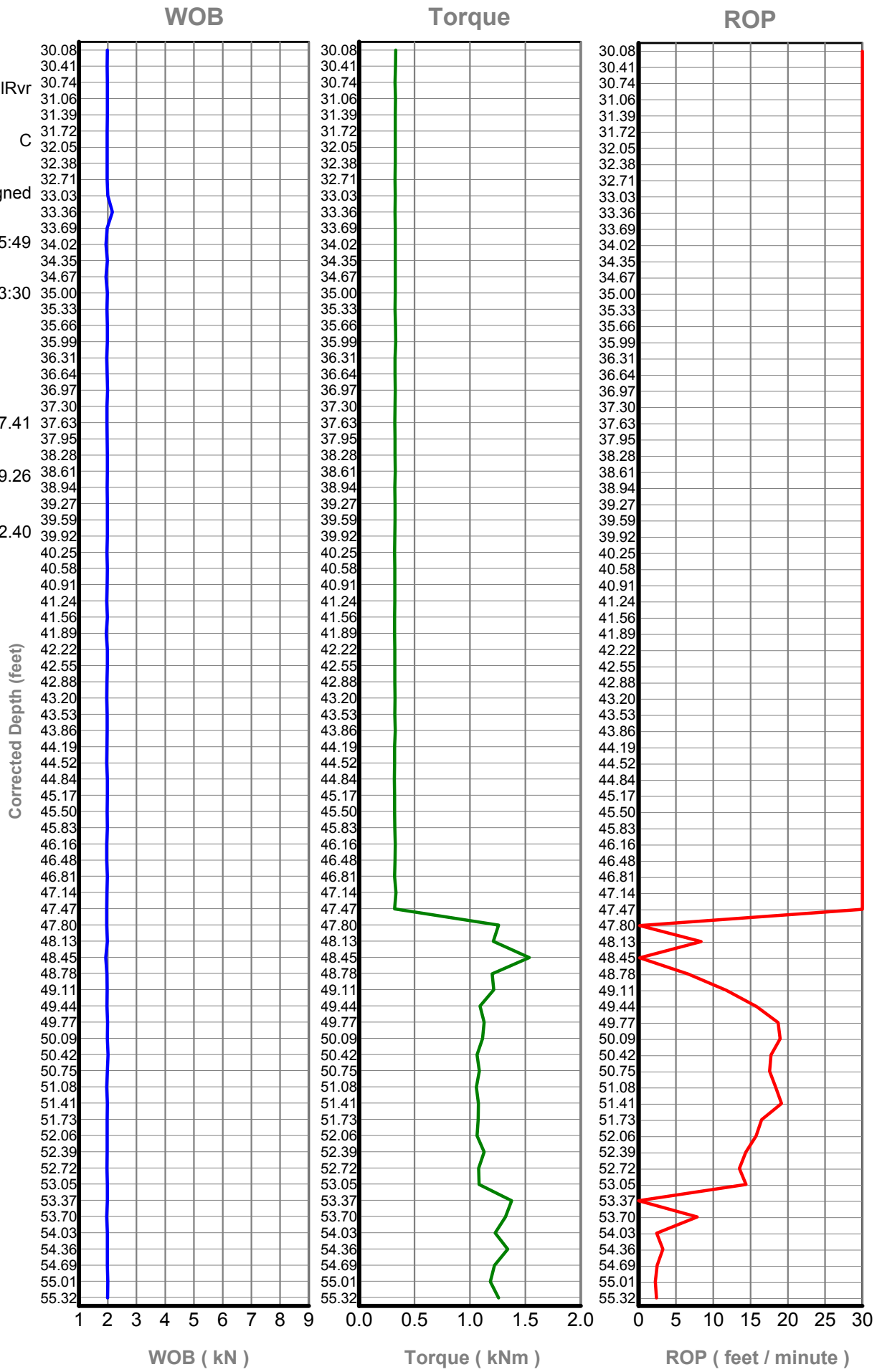
**End Date:**
4/24/2015 9:23:30

**Operator Note:**
'2.4 2.4 C Auto Complete'

**Northing:**
367,067.41

**Easting:**
251,179.26

**Tide (feet):**
2.40



## Hole: H163 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:46:09 | 35.43 | 30.13 | 790 | 1.03 | 0.18 | 43.2 |
| 4/27/2015 9:46:09 | 35.76 | 30.46 | 800 | 1.05 | 0.18 | 43.8 |
| 4/27/2015 9:46:10 | 36.09 | 30.79 | 789 | 1.02 | 0.18 | 43.1 |
| 4/27/2015 9:46:10 | 36.42 | 31.12 | 786 | 1.05 | 0.18 | 43.0 |
| 4/27/2015 9:46:11 | 36.75 | 31.45 | 779 | 1.05 | 0.18 | 42.6 |
| 4/27/2015 9:46:11 | 37.07 | 31.77 | 786 | 1.03 | 0.18 | 43.0 |
| 4/27/2015 9:46:12 | 37.40 | 32.10 | 786 | 1.05 | 0.18 | 43.0 |
| 4/27/2015 9:46:12 | 37.73 | 32.43 | 786 | 1.05 | 0.18 | 43.0 |
| 4/27/2015 9:46:12 | 38.06 | 32.76 | 792 | 1.04 | 0.18 | 43.3 |
| 4/27/2015 9:46:13 | 38.39 | 33.09 | 798 | 1.04 | 0.19 | 43.6 |
| 4/27/2015 9:46:13 | 38.71 | 33.41 | 805 | 1.03 | 0.18 | 44.0 |
| 4/27/2015 9:46:14 | 39.04 | 33.74 | 801 | 1.04 | 0.18 | 43.8 |
| 4/27/2015 9:46:14 | 39.37 | 34.07 | 801 | 1.06 | 0.18 | 43.8 |
| 4/27/2015 9:46:15 | 39.70 | 34.40 | 796 | 1.04 | 0.19 | 43.5 |
| 4/27/2015 9:46:15 | 40.03 | 34.73 | 796 | 1.04 | 0.19 | 43.5 |
| 4/27/2015 9:46:15 | 40.35 | 35.05 | 795 | 1.05 | 0.18 | 43.5 |
| 4/27/2015 9:46:16 | 40.68 | 35.38 | 785 | 1.04 | 0.18 | 42.9 |
| 4/27/2015 9:46:16 | 41.01 | 35.71 | 786 | 1.05 | 0.18 | 43.0 |
| 4/27/2015 9:46:17 | 41.34 | 36.04 | 780 | 1.03 | 0.18 | 42.7 |
| 4/27/2015 9:46:17 | 41.67 | 36.37 | 778 | 1.05 | 0.19 | 42.5 |
| 4/27/2015 9:46:18 | 41.99 | 36.69 | 776 | 1.03 | 0.18 | 42.4 |
| 4/27/2015 9:46:19 | 42.32 | 37.02 | 791 | 1.05 | 0.18 | 43.3 |
| 4/27/2015 9:46:19 | 42.65 | 37.35 | 791 | 1.05 | 0.18 | 43.3 |
| 4/27/2015 9:46:19 | 42.98 | 37.68 | 782 | 1.05 | 0.18 | 42.8 |
| 4/27/2015 9:46:20 | 43.31 | 38.01 | 790 | 1.05 | 0.18 | 43.2 |
| 4/27/2015 9:46:20 | 43.64 | 38.34 | 790 | 1.05 | 0.16 | 43.2 |
| 4/27/2015 9:46:21 | 43.96 | 38.66 | 792 | 1.03 | 0.18 | 43.3 |
| 4/27/2015 9:46:21 | 44.29 | 38.99 | 782 | 1.03 | 0.18 | 42.8 |
| 4/27/2015 9:46:22 | 44.62 | 39.32 | 773 | 1.07 | 0.18 | 42.3 |
| 4/27/2015 9:46:22 | 44.95 | 39.65 | 773 | 1.05 | 0.18 | 42.3 |
| 4/27/2015 9:46:23 | 45.28 | 39.98 | 773 | 1.05 | 0.18 | 42.3 |
| 4/27/2015 9:46:23 | 45.60 | 40.30 | 780 | 1.05 | 0.18 | 42.6 |
| 4/27/2015 9:46:23 | 45.93 | 40.63 | 780 | 1.05 | 0.18 | 42.6 |
| 4/27/2015 9:46:24 | 46.26 | 40.96 | 775 | 1.04 | 0.18 | 42.4 |
| 4/27/2015 9:46:24 | 46.59 | 41.29 | 772 | 1.05 | 0.18 | 42.2 |
| 4/27/2015 9:46:25 | 46.92 | 41.62 | 791 | 1.04 | 0.18 | 43.2 |
| 4/27/2015 9:46:25 | 47.24 | 41.94 | 770 | 1.03 | 0.18 | 42.1 |
| 4/27/2015 9:46:26 | 47.57 | 42.27 | 778 | 1.05 | 0.18 | 42.5 |
| 4/27/2015 9:46:26 | 47.90 | 42.60 | 778 | 1.05 | 0.18 | 42.5 |
| 4/27/2015 9:46:26 | 48.23 | 42.93 | 775 | 1.04 | 0.18 | 42.4 |
| 4/27/2015 9:46:27 | 48.56 | 43.26 | 768 | 1.05 | 0.18 | 42.0 |
| 4/27/2015 9:46:27 | 48.88 | 43.58 | 770 | 1.05 | 0.18 | 42.1 |
| 4/27/2015 9:46:28 | 49.21 | 43.91 | 778 | 1.04 | 0.18 | 42.6 |
| 4/27/2015 9:46:28 | 49.54 | 44.24 | 775 | 1.04 | 0.18 | 42.4 |
| 4/27/2015 9:46:29 | 49.87 | 44.57 | 778 | 1.05 | 0.18 | 42.5 |
| 4/27/2015 9:46:30 | 50.20 | 44.90 | 785 | 1.04 | 0.18 | 42.9 |
| 4/27/2015 9:46:30 | 50.53 | 45.23 | 786 | 1.06 | 0.18 | 43.0 |
| 4/27/2015 9:46:39 | 50.85 | 45.55 | 0 | 0.39 | 0.71 | 0.0 |
| 4/27/2015 9:46:40 | 51.18 | 45.88 | 32 | 0.96 | 0.84 | 1.8 |
| 4/27/2015 9:46:41 | 51.51 | 46.21 | 257 | 1.02 | 0.95 | 14.0 |
| 4/27/2015 9:46:41 | 51.84 | 46.54 | 351 | 1.03 | 1.01 | 19.2 |
| 4/27/2015 9:46:42 | 52.17 | 46.87 | 431 | 1.00 | 1.02 | 23.5 |
| 4/27/2015 9:46:43 | 52.49 | 47.19 | 389 | 1.00 | 0.88 | 21.3 |
| 4/27/2015 9:46:44 | 52.82 | 47.52 | 398 | 1.02 | 0.97 | 21.7 |
| 4/27/2015 9:46:45 | 53.15 | 47.85 | 390 | 1.05 | 1.14 | 21.3 |
| 4/27/2015 9:46:46 | 53.48 | 48.18 | 447 | 0.98 | 1.21 | 24.5 |
| 4/27/2015 9:46:46 | 53.81 | 48.51 | 433 | 1.05 | 0.85 | 23.7 |
| 4/27/2015 9:46:47 | 54.13 | 48.83 | 443 | 1.05 | 0.84 | 24.2 |
| 4/27/2015 9:46:48 | 54.46 | 49.16 | 453 | 1.01 | 0.86 | 24.8 |
| 4/27/2015 9:46:48 | 54.79 | 49.49 | 477 | 1.08 | 0.78 | 26.1 |
| 4/27/2015 9:46:49 | 55.12 | 49.82 | 500 | 1.03 | 0.77 | 27.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:46:50 | 55.45 | 50.15 | 503 | 1.05 | 0.77 | 27.5 |
| 4/27/2015 | 9:46:51 | 55.77 | 50.47 | 492 | 1.02 | 0.76 | 26.9 |
| 4/27/2015 | 9:46:52 | 56.10 | 50.80 | 480 | 1.10 | 0.79 | 26.2 |
| 4/27/2015 | 9:46:53 | 56.43 | 51.13 | 463 | 1.05 | 0.85 | 25.3 |
| 4/27/2015 | 9:46:53 | 56.76 | 51.46 | 465 | 1.11 | 0.88 | 25.5 |
| 4/27/2015 | 9:46:54 | 57.09 | 51.79 | 451 | 1.07 | 1.03 | 24.6 |
| 4/27/2015 | 9:46:56 | 57.41 | 52.11 | 315 | 1.09 | 1.10 | 17.2 |
| 4/27/2015 | 9:46:57 | 57.74 | 52.44 | 220 | 1.11 | 1.07 | 12.0 |
| 4/27/2015 | 9:47:00 | 58.07 | 52.77 | 130 | 1.18 | 1.29 | 7.1 |
| 4/27/2015 | 9:47:07 | 58.40 | 53.10 | 38 | 1.03 | 1.08 | 2.1 |
| 4/27/2015 | 9:47:10 | 58.73 | 53.43 | 84 | 1.08 | 1.14 | 4.6 |
| 4/27/2015 | 9:47:15 | 59.06 | 53.76 | 88 | 1.11 | 1.22 | 4.8 |
| 4/27/2015 | 9:47:31 | 59.34 | 54.04 | 0 | 0.93 | 1.69 | 0.0 |

## H163 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 9:44:49

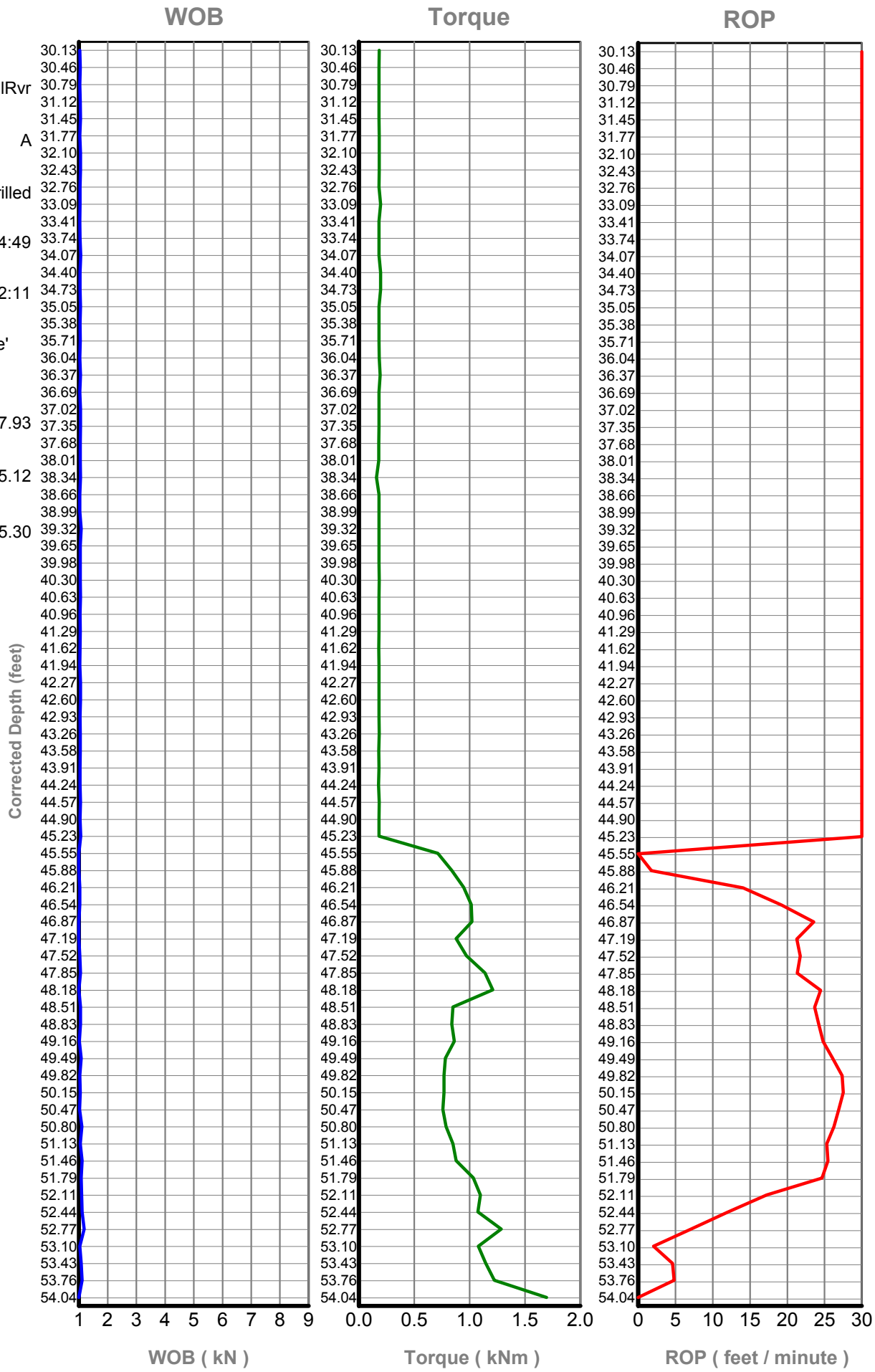
**End Date:**
4/27/2015 9:52:11

**Operator Note:**
'5.3 5.5 a Auto Complete'

**Northing:**
365,367.93

**Easting:**
249,185.12

**Tide (feet):**
5.30



## Hole: H164 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:40:12 | 35.43 | 30.03 | 1,054 | 0.29 | 0.32 | 57.6 |
| 4/27/2015 9:40:12 | 35.76 | 30.36 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/27/2015 9:40:13 | 36.09 | 30.69 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/27/2015 9:40:13 | 36.42 | 31.02 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/27/2015 9:40:13 | 36.75 | 31.35 | 1,039 | 0.29 | 0.31 | 56.8 |
| 4/27/2015 9:40:14 | 37.07 | 31.67 | 1,039 | 0.29 | 0.31 | 56.8 |
| 4/27/2015 9:40:14 | 37.40 | 32.00 | 1,039 | 0.29 | 0.32 | 56.8 |
| 4/27/2015 9:40:14 | 37.73 | 32.33 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 9:40:15 | 38.06 | 32.66 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 9:40:15 | 38.39 | 32.99 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 9:40:15 | 38.71 | 33.31 | 1,062 | 0.29 | 0.31 | 58.1 |
| 4/27/2015 9:40:16 | 39.04 | 33.64 | 1,062 | 0.29 | 0.31 | 58.1 |
| 4/27/2015 9:40:16 | 39.37 | 33.97 | 1,059 | 0.29 | 0.32 | 57.9 |
| 4/27/2015 9:40:16 | 39.70 | 34.30 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/27/2015 9:40:17 | 40.03 | 34.63 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/27/2015 9:40:17 | 40.35 | 34.95 | 1,063 | 0.29 | 0.31 | 58.1 |
| 4/27/2015 9:40:17 | 40.68 | 35.28 | 1,063 | 0.29 | 0.31 | 58.1 |
| 4/27/2015 9:40:18 | 41.01 | 35.61 | 1,063 | 0.29 | 0.32 | 58.1 |
| 4/27/2015 9:40:18 | 41.34 | 35.94 | 1,059 | 0.29 | 0.31 | 57.9 |
| 4/27/2015 9:40:18 | 41.67 | 36.27 | 1,059 | 0.29 | 0.31 | 57.9 |
| 4/27/2015 9:40:19 | 41.99 | 36.59 | 1,059 | 0.29 | 0.31 | 57.9 |
| 4/27/2015 9:40:19 | 42.32 | 36.92 | 1,060 | 0.29 | 0.31 | 57.9 |
| 4/27/2015 9:40:20 | 42.65 | 37.25 | 1,060 | 0.29 | 0.31 | 57.9 |
| 4/27/2015 9:40:20 | 42.98 | 37.58 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/27/2015 9:40:20 | 43.31 | 37.91 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/27/2015 9:40:21 | 43.64 | 38.24 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/27/2015 9:40:21 | 43.96 | 38.56 | 1,068 | 0.29 | 0.32 | 58.4 |
| 4/27/2015 9:40:21 | 44.29 | 38.89 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:40:22 | 44.62 | 39.22 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:40:22 | 44.95 | 39.55 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:40:22 | 45.28 | 39.88 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/27/2015 9:40:23 | 45.60 | 40.20 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/27/2015 9:40:23 | 45.93 | 40.53 | 1,037 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 9:40:23 | 46.26 | 40.86 | 1,037 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 9:40:23 | 46.59 | 41.19 | 1,040 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 9:40:24 | 46.92 | 41.52 | 1,043 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 9:40:24 | 47.24 | 41.84 | 1,043 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 9:40:24 | 47.57 | 42.17 | 1,033 | 0.29 | 0.31 | 56.5 |
| 4/27/2015 9:40:25 | 47.90 | 42.50 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/27/2015 9:40:25 | 48.23 | 42.83 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/27/2015 9:40:25 | 48.56 | 43.16 | 1,063 | 0.29 | 0.31 | 58.2 |
| 4/27/2015 9:40:26 | 48.88 | 43.48 | 1,022 | 0.29 | 0.31 | 55.9 |
| 4/27/2015 9:40:26 | 49.21 | 43.81 | 1,022 | 0.29 | 0.31 | 55.9 |
| 4/27/2015 9:40:26 | 49.54 | 44.14 | 1,022 | 0.29 | 0.32 | 55.9 |
| 4/27/2015 9:40:27 | 49.87 | 44.47 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/27/2015 9:40:28 | 50.20 | 44.80 | 1,038 | 0.29 | 0.32 | 56.7 |
| 4/27/2015 9:40:27 | 50.53 | 45.13 | 1,032 | 0.28 | 0.33 | 56.4 |
| 4/27/2015 9:40:28 | 50.85 | 45.45 | 1,002 | 0.27 | 0.37 | 54.8 |
| 4/27/2015 9:40:41 | 51.18 | 45.78 | 0 | 3.44 | 0.37 | 0.0 |
| 4/27/2015 9:40:46 | 51.51 | 46.11 | 71 | 3.33 | 0.36 | 3.9 |
| 4/27/2015 9:40:48 | 51.84 | 46.44 | 133 | 4.00 | 0.42 | 7.3 |
| 4/27/2015 9:40:50 | 52.17 | 46.77 | 224 | 2.99 | 0.36 | 12.2 |
| 4/27/2015 9:40:50 | 52.49 | 47.09 | 247 | 3.00 | 0.36 | 13.5 |
| 4/27/2015 9:40:55 | 52.82 | 47.42 | 50 | 2.90 | 0.37 | 2.7 |
| 4/27/2015 9:40:56 | 53.15 | 47.75 | 205 | 2.65 | 0.37 | 11.2 |
| 4/27/2015 9:41:02 | 53.48 | 48.08 | 32 | 2.55 | 0.37 | 1.8 |
| 4/27/2015 9:41:03 | 53.81 | 48.41 | 182 | 3.35 | 0.39 | 9.9 |
| 4/27/2015 9:41:06 | 54.13 | 48.73 | 95 | 2.83 | 0.38 | 5.2 |
| 4/27/2015 9:41:07 | 54.46 | 49.06 | 152 | 2.59 | 0.38 | 8.3 |
| 4/27/2015 9:41:08 | 54.79 | 49.39 | 192 | 3.09 | 0.38 | 10.5 |
| 4/27/2015 9:41:10 | 55.12 | 49.72 | 273 | 3.23 | 0.37 | 14.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:41:12 | 55.45 | 50.05 | 267 | 2.82 | 0.38 | 14.6 |
| 4/27/2015 | 9:41:18 | 55.77 | 50.37 | 0 | 2.88 | 0.39 | 0.0 |
| 4/27/2015 | 9:41:21 | 56.10 | 50.70 | 130 | 3.03 | 0.40 | 7.1 |
| 4/27/2015 | 9:41:25 | 56.43 | 51.03 | 81 | 2.78 | 0.39 | 4.4 |
| 4/27/2015 | 9:41:29 | 56.76 | 51.36 | 94 | 2.63 | 0.40 | 5.2 |
| 4/27/2015 | 9:41:49 | 57.09 | 51.69 | 18 | 3.18 | 0.40 | 1.0 |
| 4/27/2015 | 9:41:54 | 57.41 | 52.01 | 76 | 2.87 | 0.40 | 4.2 |
| 4/27/2015 | 9:41:59 | 57.74 | 52.34 | 74 | 3.64 | 0.39 | 4.0 |
| 4/27/2015 | 9:42:03 | 58.07 | 52.67 | 88 | 3.84 | 0.39 | 4.8 |
| 4/27/2015 | 9:42:06 | 58.40 | 53.00 | 91 | 3.16 | 0.39 | 5.0 |
| 4/27/2015 | 9:42:16 | 58.73 | 53.33 | 56 | 3.51 | 0.38 | 3.1 |
| 4/27/2015 | 9:42:18 | 59.06 | 53.66 | 117 | 2.84 | 0.38 | 6.4 |
| 4/27/2015 | 9:42:22 | 59.38 | 53.98 | 92 | 3.88 | 0.40 | 5.0 |
| 4/27/2015 | 9:42:27 | 59.71 | 54.31 | 77 | 4.00 | 0.39 | 4.2 |
| 4/27/2015 | 9:42:31 | 60.04 | 54.64 | 76 | 3.66 | 0.39 | 4.1 |
| 4/27/2015 | 9:42:36 | 60.37 | 54.97 | 72 | 3.87 | 0.39 | 4.0 |
| 4/27/2015 | 9:42:38 | 60.52 | 55.12 | 87 | 4.00 | 0.39 | 4.8 |

## H164 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:38:17

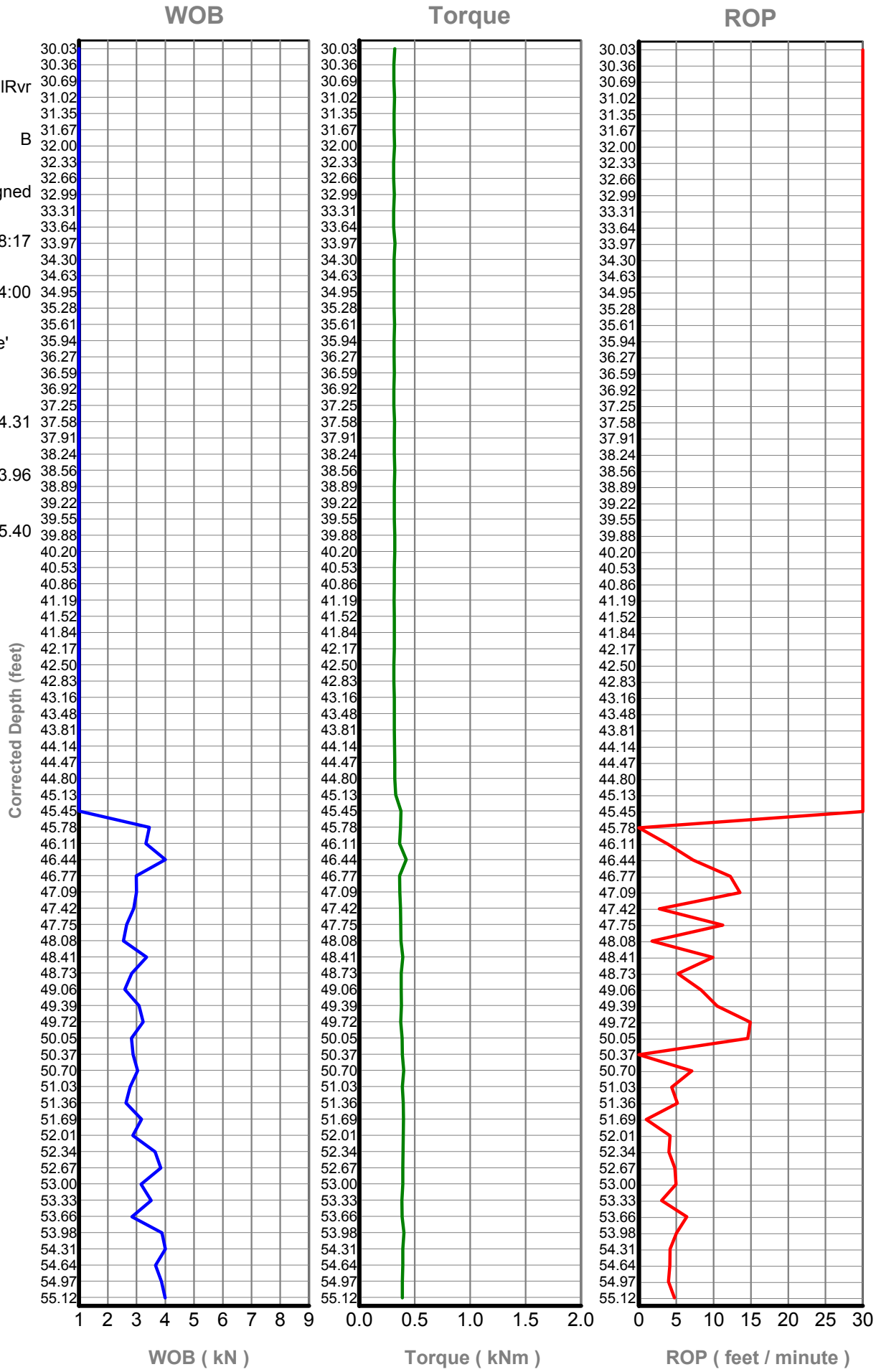
**End Date:**
4/27/2015 9:44:00

**Operator Note:**
'5.4 5.5 b Auto Complete'

**Northing:**
365,414.31

**Easting:**
249,243.96

**Tide (feet):**
5.40



## Hole: H165 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:40:09 | 35.43 | 30.13 | 1,185 | 1.73 | 0.29 | 64.8 |
| 4/27/2015 9:40:09 | 35.76 | 30.46 | 1,185 | 1.73 | 0.29 | 64.8 |
| 4/27/2015 9:40:09 | 36.09 | 30.79 | 1,185 | 1.72 | 0.29 | 64.8 |
| 4/27/2015 9:40:10 | 36.42 | 31.12 | 1,202 | 1.73 | 0.29 | 65.7 |
| 4/27/2015 9:40:11 | 36.75 | 31.45 | 1,202 | 1.73 | 0.29 | 65.7 |
| 4/27/2015 9:40:11 | 37.07 | 31.77 | 1,197 | 1.70 | 0.29 | 65.4 |
| 4/27/2015 9:40:11 | 37.40 | 32.10 | 1,197 | 1.70 | 0.29 | 65.4 |
| 4/27/2015 9:40:11 | 37.73 | 32.43 | 1,200 | 1.70 | 0.29 | 65.6 |
| 4/27/2015 9:40:12 | 38.06 | 32.76 | 1,188 | 1.71 | 0.29 | 65.0 |
| 4/27/2015 9:40:12 | 38.39 | 33.09 | 1,188 | 1.71 | 0.29 | 65.0 |
| 4/27/2015 9:40:12 | 38.71 | 33.41 | 1,171 | 1.72 | 0.29 | 64.0 |
| 4/27/2015 9:40:13 | 39.04 | 33.74 | 1,171 | 1.72 | 0.29 | 64.0 |
| 4/27/2015 9:40:13 | 39.37 | 34.07 | 1,140 | 1.74 | 0.29 | 62.4 |
| 4/27/2015 9:40:13 | 39.70 | 34.40 | 1,140 | 1.74 | 0.29 | 62.4 |
| 4/27/2015 9:40:13 | 40.03 | 34.73 | 1,124 | 1.73 | 0.29 | 61.4 |
| 4/27/2015 9:40:14 | 40.35 | 35.05 | 1,124 | 1.71 | 0.29 | 61.4 |
| 4/27/2015 9:40:14 | 40.68 | 35.38 | 1,124 | 1.71 | 0.29 | 61.4 |
| 4/27/2015 9:40:14 | 41.01 | 35.71 | 1,137 | 1.74 | 0.29 | 62.2 |
| 4/27/2015 9:40:15 | 41.34 | 36.04 | 1,137 | 1.74 | 0.29 | 62.2 |
| 4/27/2015 9:40:15 | 41.67 | 36.37 | 1,144 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 9:40:15 | 41.99 | 36.69 | 1,144 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 9:40:16 | 42.32 | 37.02 | 1,144 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 9:40:16 | 42.65 | 37.35 | 1,158 | 1.72 | 0.30 | 63.3 |
| 4/27/2015 9:40:16 | 42.98 | 37.68 | 1,158 | 1.72 | 0.30 | 63.3 |
| 4/27/2015 9:40:16 | 43.31 | 38.01 | 1,158 | 1.71 | 0.29 | 63.3 |
| 4/27/2015 9:40:17 | 43.64 | 38.34 | 1,158 | 1.71 | 0.29 | 63.3 |
| 4/27/2015 9:40:17 | 43.96 | 38.66 | 1,159 | 1.72 | 0.29 | 63.4 |
| 4/27/2015 9:40:17 | 44.29 | 38.99 | 1,159 | 1.74 | 0.29 | 63.4 |
| 4/27/2015 9:40:18 | 44.62 | 39.32 | 1,159 | 1.74 | 0.29 | 63.4 |
| 4/27/2015 9:40:18 | 44.95 | 39.65 | 1,193 | 1.72 | 0.29 | 65.2 |
| 4/27/2015 9:40:18 | 45.28 | 39.98 | 1,193 | 1.72 | 0.29 | 65.2 |
| 4/27/2015 9:40:18 | 45.60 | 40.30 | 1,166 | 1.71 | 0.29 | 63.8 |
| 4/27/2015 9:40:19 | 45.93 | 40.63 | 1,166 | 1.73 | 0.29 | 63.8 |
| 4/27/2015 9:40:19 | 46.26 | 40.96 | 1,166 | 1.73 | 0.29 | 63.8 |
| 4/27/2015 9:40:19 | 46.59 | 41.29 | 1,175 | 1.72 | 0.29 | 64.3 |
| 4/27/2015 9:40:20 | 46.92 | 41.62 | 1,175 | 1.72 | 0.29 | 64.3 |
| 4/27/2015 9:40:20 | 47.24 | 41.94 | 1,162 | 1.72 | 0.29 | 63.5 |
| 4/27/2015 9:40:21 | 47.57 | 42.27 | 1,176 | 1.71 | 0.29 | 64.3 |
| 4/27/2015 9:40:21 | 47.90 | 42.60 | 1,176 | 1.71 | 0.29 | 64.3 |
| 4/27/2015 9:40:21 | 48.23 | 42.93 | 1,155 | 1.72 | 0.29 | 63.2 |
| 4/27/2015 9:40:22 | 48.56 | 43.26 | 1,155 | 1.72 | 0.29 | 63.2 |
| 4/27/2015 9:40:22 | 48.88 | 43.58 | 1,172 | 1.72 | 0.30 | 64.1 |
| 4/27/2015 9:40:22 | 49.21 | 43.91 | 1,160 | 1.70 | 0.28 | 63.4 |
| 4/27/2015 9:40:23 | 49.54 | 44.24 | 1,160 | 1.70 | 0.28 | 63.4 |
| 4/27/2015 9:40:23 | 49.87 | 44.57 | 1,162 | 1.70 | 0.28 | 63.6 |
| 4/27/2015 9:40:23 | 50.20 | 44.90 | 1,162 | 1.70 | 0.28 | 63.6 |
| 4/27/2015 9:40:38 | 50.53 | 45.23 | 9 | 1.82 | 1.11 | 0.5 |
| 4/27/2015 9:40:39 | 50.85 | 45.55 | 126 | 1.79 | 1.22 | 6.9 |
| 4/27/2015 9:40:41 | 51.18 | 45.88 | 214 | 1.76 | 1.26 | 11.7 |
| 4/27/2015 9:40:44 | 51.51 | 46.21 | 126 | 1.71 | 1.31 | 6.9 |
| 4/27/2015 9:40:48 | 51.84 | 46.54 | 108 | 1.77 | 1.51 | 5.9 |
| 4/27/2015 9:40:58 | 52.17 | 46.87 | 61 | 1.77 | 1.25 | 3.3 |
| 4/27/2015 9:41:05 | 52.49 | 47.19 | 49 | 1.76 | 1.18 | 2.7 |
| 4/27/2015 9:41:11 | 52.82 | 47.52 | 63 | 1.76 | 1.24 | 3.4 |
| 4/27/2015 9:41:15 | 53.15 | 47.85 | 106 | 1.79 | 1.31 | 5.8 |
| 4/27/2015 9:41:19 | 53.48 | 48.18 | 72 | 1.76 | 1.33 | 4.0 |
| 4/27/2015 9:41:22 | 53.81 | 48.51 | 105 | 1.78 | 1.32 | 5.7 |
| 4/27/2015 9:41:25 | 54.13 | 48.83 | 159 | 1.74 | 1.27 | 8.7 |
| 4/27/2015 9:41:28 | 54.46 | 49.16 | 139 | 1.75 | 1.30 | 7.6 |
| 4/27/2015 9:41:30 | 54.79 | 49.49 | 121 | 1.78 | 1.25 | 6.6 |
| 4/27/2015 9:41:37 | 55.12 | 49.82 | 52 | 1.75 | 1.18 | 2.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:41:45 | 55.45 | 50.15 | 46 | 1.77 | 1.21 | 2.5 |
| 4/27/2015 | 9:41:53 | 55.77 | 50.47 | 43 | 1.79 | 1.21 | 2.4 |
| 4/27/2015 | 9:42:00 | 56.06 | 50.76 | 42 | 1.80 | 1.35 | 2.3 |

## H165 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 9:39:00

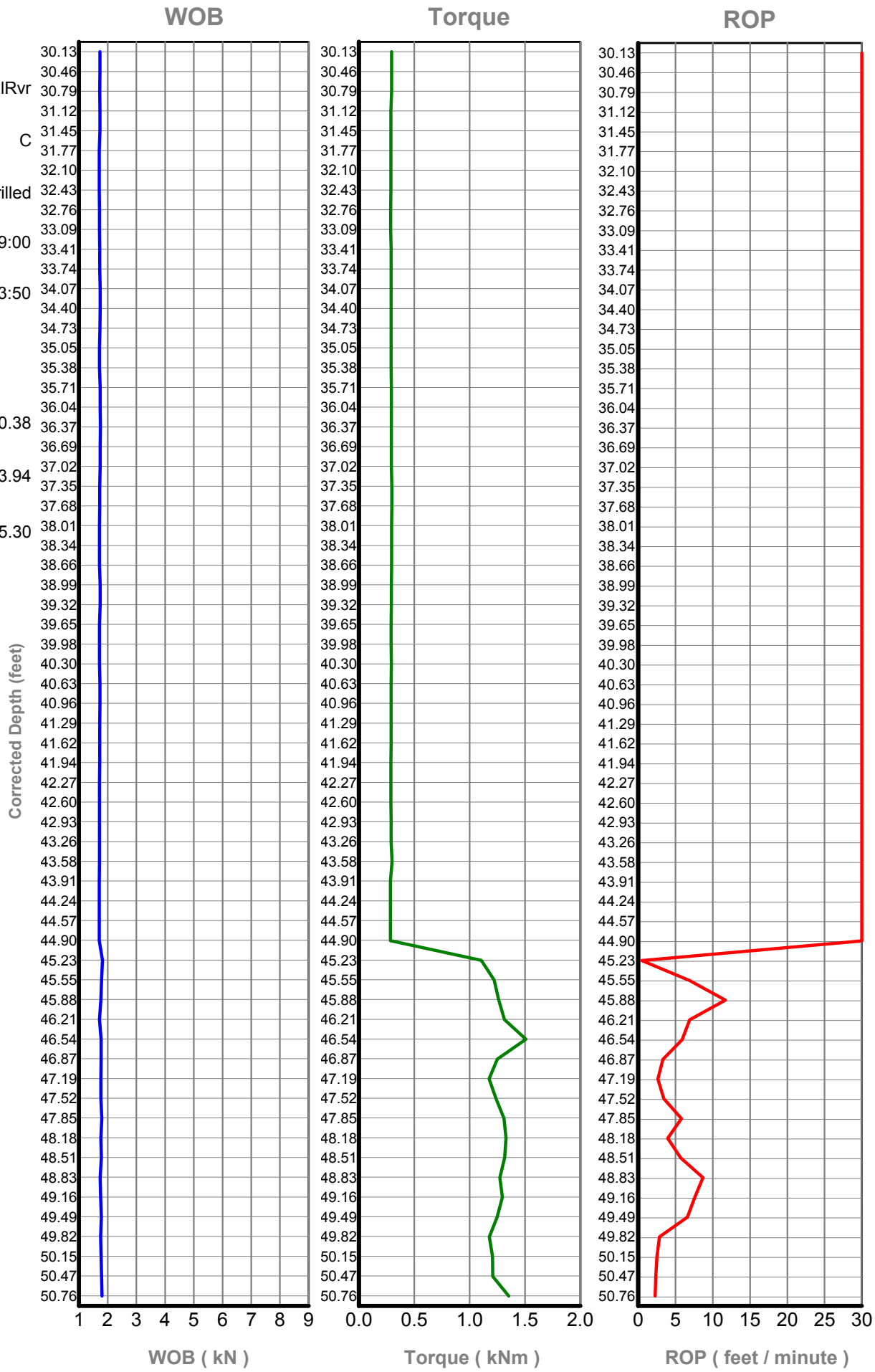
**End Date:**
4/27/2015 9:43:50

**Operator Note:**
'5.3 5.5 C Auto Complete'

**Northing:**
365,460.38

**Easting:**
249,303.94

**Tide (feet):**
5.30



## Hole: H166 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:10:14 | 32.81 | 30.01 | 988 | 0.33 | 0.32 | 54.0 |
| 4/27/2015 4:10:14 | 33.14 | 30.34 | 1,007 | 0.35 | 0.32 | 55.1 |
| 4/27/2015 4:10:15 | 33.46 | 30.66 | 1,007 | 0.35 | 0.32 | 55.1 |
| 4/27/2015 4:10:15 | 33.79 | 30.99 | 1,007 | 0.35 | 0.32 | 55.1 |
| 4/27/2015 4:10:15 | 34.12 | 31.32 | 1,004 | 0.35 | 0.33 | 54.9 |
| 4/27/2015 4:10:16 | 34.45 | 31.65 | 1,004 | 0.35 | 0.33 | 54.9 |
| 4/27/2015 4:10:16 | 34.78 | 31.98 | 999 | 0.37 | 0.32 | 54.6 |
| 4/27/2015 4:10:16 | 35.11 | 32.31 | 1,020 | 0.35 | 0.32 | 55.8 |
| 4/27/2015 4:10:17 | 35.43 | 32.63 | 1,020 | 0.35 | 0.32 | 55.8 |
| 4/27/2015 4:10:17 | 35.76 | 32.96 | 998 | 0.34 | 0.32 | 54.6 |
| 4/27/2015 4:10:18 | 36.09 | 33.29 | 987 | 0.34 | 0.32 | 54.0 |
| 4/27/2015 4:10:18 | 36.42 | 33.62 | 990 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 4:10:19 | 36.75 | 33.95 | 990 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 4:10:19 | 37.07 | 34.27 | 1,005 | 0.34 | 0.32 | 54.9 |
| 4/27/2015 4:10:19 | 37.40 | 34.60 | 993 | 0.34 | 0.32 | 54.3 |
| 4/27/2015 4:10:20 | 37.73 | 34.93 | 993 | 0.34 | 0.32 | 54.3 |
| 4/27/2015 4:10:20 | 38.06 | 35.26 | 996 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 4:10:20 | 38.39 | 35.59 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 4:10:21 | 38.71 | 35.91 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 4:10:21 | 39.04 | 36.24 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 4:10:21 | 39.37 | 36.57 | 997 | 0.34 | 0.32 | 54.5 |
| 4/27/2015 4:10:22 | 39.70 | 36.90 | 997 | 0.34 | 0.32 | 54.5 |
| 4/27/2015 4:10:22 | 40.03 | 37.23 | 1,000 | 0.34 | 0.32 | 54.7 |
| 4/27/2015 4:10:22 | 40.35 | 37.55 | 992 | 0.33 | 0.33 | 54.3 |
| 4/27/2015 4:10:23 | 40.68 | 37.88 | 992 | 0.33 | 0.33 | 54.3 |
| 4/27/2015 4:10:23 | 41.01 | 38.21 | 992 | 0.33 | 0.32 | 54.3 |
| 4/27/2015 4:10:23 | 41.34 | 38.54 | 995 | 0.33 | 0.32 | 54.4 |
| 4/27/2015 4:10:24 | 41.67 | 38.87 | 995 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 4:10:24 | 41.99 | 39.19 | 995 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 4:10:24 | 42.32 | 39.52 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 4:10:25 | 42.65 | 39.85 | 970 | 0.34 | 0.32 | 53.1 |
| 4/27/2015 4:10:25 | 42.98 | 40.18 | 970 | 0.34 | 0.32 | 53.1 |
| 4/27/2015 4:10:25 | 43.31 | 40.51 | 970 | 0.34 | 0.32 | 53.1 |
| 4/27/2015 4:10:26 | 43.64 | 40.84 | 997 | 0.34 | 0.33 | 54.5 |
| 4/27/2015 4:10:26 | 43.96 | 41.16 | 997 | 0.34 | 0.33 | 54.5 |
| 4/27/2015 4:10:26 | 44.29 | 41.49 | 978 | 0.34 | 0.32 | 53.5 |
| 4/27/2015 4:10:27 | 44.62 | 41.82 | 979 | 0.34 | 0.32 | 53.5 |
| 4/27/2015 4:10:28 | 44.95 | 42.15 | 979 | 0.34 | 0.32 | 53.5 |
| 4/27/2015 4:10:28 | 45.28 | 42.48 | 982 | 0.34 | 0.32 | 53.7 |
| 4/27/2015 4:10:28 | 45.60 | 42.80 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 4:10:29 | 45.93 | 43.13 | 980 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 4:10:29 | 46.26 | 43.46 | 980 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 4:10:29 | 46.59 | 43.79 | 994 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 4:10:30 | 46.92 | 44.12 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 4:10:30 | 47.24 | 44.44 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 4:10:30 | 47.57 | 44.77 | 992 | 0.34 | 0.33 | 54.2 |
| 4/27/2015 4:10:31 | 47.90 | 45.10 | 983 | 0.33 | 0.37 | 53.8 |
| 4/27/2015 4:10:36 | 48.23 | 45.43 | 18 | 5.02 | 0.39 | 1.0 |
| 4/27/2015 4:10:42 | 48.56 | 45.76 | 33 | 3.73 | 0.39 | 1.8 |
| 4/27/2015 4:10:43 | 48.88 | 46.08 | 148 | 3.54 | 0.38 | 8.1 |
| 4/27/2015 4:10:45 | 49.21 | 46.41 | 312 | 3.58 | 0.39 | 17.1 |
| 4/27/2015 4:10:59 | 49.54 | 46.74 | 61 | 3.40 | 0.40 | 3.3 |
| 4/27/2015 4:11:06 | 49.87 | 47.07 | 43 | 3.31 | 0.41 | 2.4 |
| 4/27/2015 4:11:15 | 50.20 | 47.40 | 38 | 3.13 | 0.41 | 2.1 |
| 4/27/2015 4:11:24 | 50.48 | 47.68 | 40 | 3.33 | 0.40 | 2.2 |

## H166 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:09:01

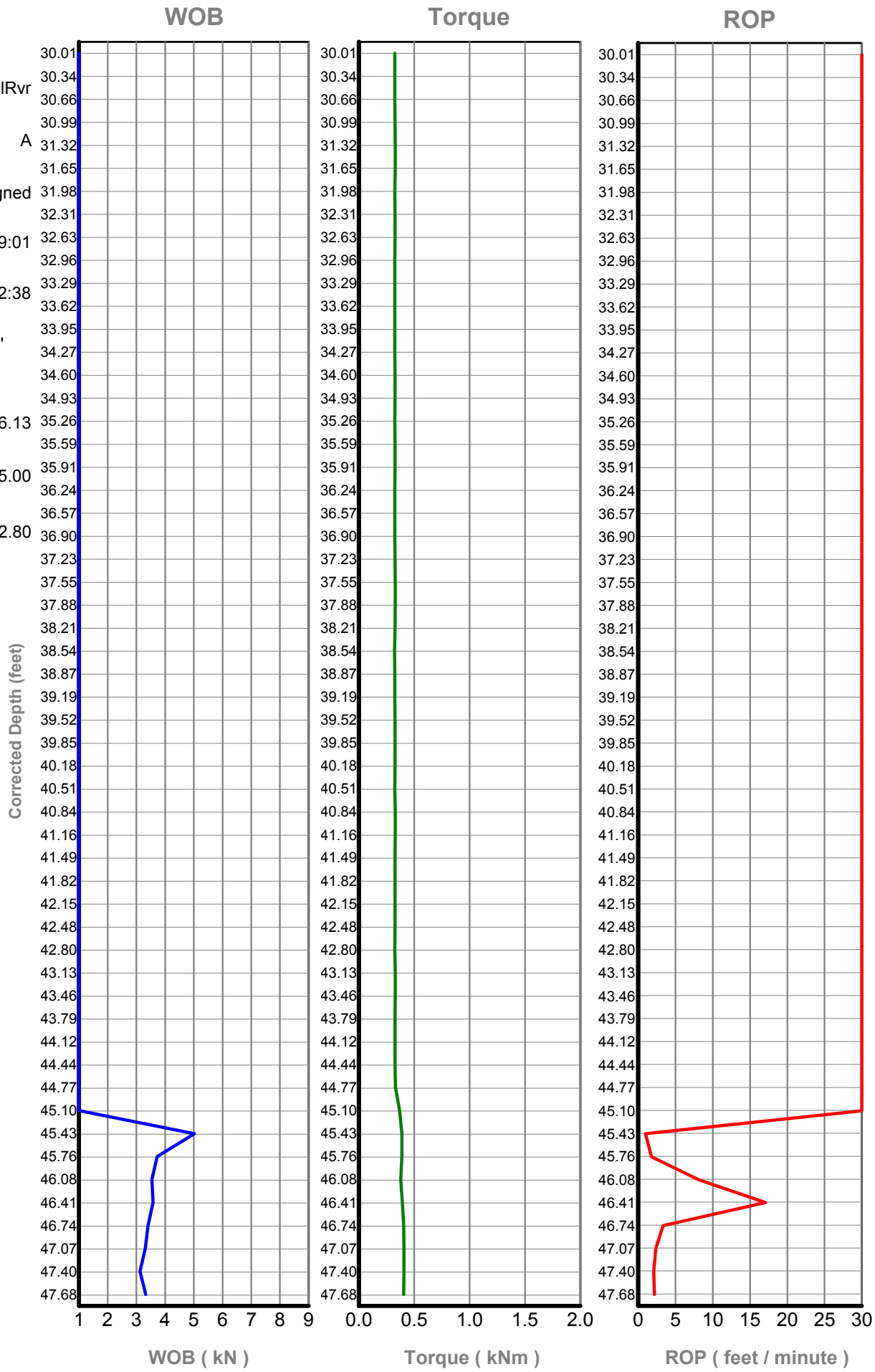
**End Date:**
4/27/2015 4:12:38

**Operator Note:**
'2.8 2.4b Auto Complete'

**Northing:**
365,516.13

**Easting:**
249,365.00

**Tide (feet):**
2.80



## Hole: H167 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:05:31 | 32.48 | 30.08 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 4:05:31 | 32.81 | 30.41 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 4:05:31 | 33.14 | 30.74 | 961 | 0.34 | 0.32 | 52.6 |
| 4/27/2015 4:05:32 | 33.46 | 31.06 | 999 | 0.34 | 0.32 | 54.6 |
| 4/27/2015 4:05:32 | 33.79 | 31.39 | 952 | 0.35 | 0.32 | 52.1 |
| 4/27/2015 4:05:33 | 34.12 | 31.72 | 952 | 0.35 | 0.32 | 52.1 |
| 4/27/2015 4:05:33 | 34.45 | 32.05 | 952 | 0.33 | 0.32 | 52.1 |
| 4/27/2015 4:05:33 | 34.78 | 32.38 | 957 | 0.34 | 0.32 | 52.3 |
| 4/27/2015 4:05:34 | 35.11 | 32.71 | 957 | 0.34 | 0.32 | 52.3 |
| 4/27/2015 4:05:34 | 35.43 | 33.03 | 952 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:05:34 | 35.76 | 33.36 | 952 | 0.07 | 0.33 | 52.0 |
| 4/27/2015 4:05:35 | 36.09 | 33.69 | 952 | 0.07 | 0.33 | 52.0 |
| 4/27/2015 4:05:35 | 36.42 | 34.02 | 971 | 0.34 | 0.32 | 53.1 |
| 4/27/2015 4:05:35 | 36.75 | 34.35 | 928 | 0.34 | 0.32 | 50.8 |
| 4/27/2015 4:05:36 | 37.07 | 34.67 | 928 | 0.34 | 0.32 | 50.8 |
| 4/27/2015 4:05:36 | 37.40 | 35.00 | 928 | 0.34 | 0.32 | 50.8 |
| 4/27/2015 4:05:36 | 37.73 | 35.33 | 975 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 4:05:37 | 38.06 | 35.66 | 968 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 4:05:38 | 38.39 | 35.99 | 968 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 4:05:38 | 38.71 | 36.31 | 968 | 0.34 | 0.32 | 52.9 |
| 4/27/2015 4:05:38 | 39.04 | 36.64 | 946 | 0.35 | 0.32 | 51.7 |
| 4/27/2015 4:05:39 | 39.37 | 36.97 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:05:39 | 39.70 | 37.30 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:05:39 | 40.03 | 37.63 | 971 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 4:05:40 | 40.35 | 37.95 | 952 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:05:40 | 40.68 | 38.28 | 952 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:05:40 | 41.01 | 38.61 | 952 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:05:41 | 41.34 | 38.94 | 963 | 0.35 | 0.32 | 52.7 |
| 4/27/2015 4:05:41 | 41.67 | 39.27 | 963 | 0.35 | 0.32 | 52.7 |
| 4/27/2015 4:05:41 | 41.99 | 39.59 | 950 | 0.35 | 0.32 | 51.9 |
| 4/27/2015 4:05:42 | 42.32 | 39.92 | 950 | 0.35 | 0.33 | 51.9 |
| 4/27/2015 4:05:42 | 42.65 | 40.25 | 971 | 0.35 | 0.40 | 53.1 |
| 4/27/2015 4:05:43 | 42.98 | 40.58 | 971 | 0.35 | 0.40 | 53.1 |
| 4/27/2015 4:05:43 | 43.31 | 40.91 | 974 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 4:05:43 | 43.64 | 41.24 | 964 | 0.35 | 0.33 | 52.7 |
| 4/27/2015 4:05:44 | 43.96 | 41.56 | 964 | 0.35 | 0.33 | 52.7 |
| 4/27/2015 4:05:44 | 44.29 | 41.89 | 959 | 0.35 | 0.32 | 52.4 |
| 4/27/2015 4:05:44 | 44.62 | 42.22 | 980 | 0.35 | 0.32 | 53.6 |
| 4/27/2015 4:05:45 | 44.95 | 42.55 | 967 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 4:05:45 | 45.28 | 42.88 | 967 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 4:05:45 | 45.60 | 43.20 | 967 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 4:05:46 | 45.93 | 43.53 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 4:05:46 | 46.26 | 43.86 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 4:05:46 | 46.59 | 44.19 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 4:05:47 | 46.92 | 44.52 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 4:05:48 | 47.24 | 44.84 | 963 | 0.34 | 0.32 | 52.7 |
| 4/27/2015 4:05:48 | 47.57 | 45.17 | 963 | 0.34 | 0.32 | 52.7 |
| 4/27/2015 4:05:48 | 47.90 | 45.50 | 955 | 0.34 | 0.34 | 52.2 |
| 4/27/2015 4:05:53 | 48.23 | 45.83 | 0 | 3.81 | 0.36 | 0.0 |
| 4/27/2015 4:05:54 | 48.56 | 46.16 | 143 | 5.40 | 0.40 | 7.8 |
| 4/27/2015 4:06:03 | 48.88 | 46.48 | 42 | 3.68 | 0.37 | 2.3 |
| 4/27/2015 4:06:04 | 49.21 | 46.81 | 207 | 6.71 | 0.41 | 11.3 |
| 4/27/2015 4:06:21 | 49.54 | 47.14 | 0 | 3.43 | 0.37 | 0.0 |
| 4/27/2015 4:06:21 | 49.87 | 47.47 | 80 | 3.92 | 0.37 | 4.4 |
| 4/27/2015 4:06:22 | 50.20 | 47.80 | 292 | 3.68 | 0.36 | 16.0 |
| 4/27/2015 4:06:23 | 50.53 | 48.13 | 389 | 3.78 | 0.36 | 21.3 |
| 4/27/2015 4:06:28 | 50.85 | 48.45 | 69 | 4.58 | 0.37 | 3.8 |
| 4/27/2015 4:06:29 | 51.18 | 48.78 | 160 | 3.32 | 0.38 | 8.7 |
| 4/27/2015 4:06:32 | 51.51 | 49.11 | 130 | 5.23 | 0.37 | 7.1 |
| 4/27/2015 4:06:32 | 51.84 | 49.44 | 164 | 4.99 | 0.37 | 9.0 |
| 4/27/2015 4:06:33 | 52.17 | 49.77 | 231 | 4.98 | 0.37 | 12.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 4:06:34 | 52.49 | 50.09 | 397 | 3.42 | 0.38 | 21.7 |
| 4/27/2015 | 4:06:35 | 52.82 | 50.42 | 349 | 4.29 | 0.40 | 19.1 |
| 4/27/2015 | 4:06:41 | 53.15 | 50.75 | 75 | 4.86 | 0.40 | 4.1 |
| 4/27/2015 | 4:06:44 | 53.48 | 51.08 | 91 | 5.54 | 0.41 | 5.0 |
| 4/27/2015 | 4:06:51 | 53.81 | 51.41 | 55 | 5.33 | 0.40 | 3.0 |
| 4/27/2015 | 4:07:01 | 54.13 | 51.73 | 36 | 3.52 | 0.40 | 2.0 |
| 4/27/2015 | 4:07:13 | 54.46 | 52.06 | 26 | 3.41 | 0.41 | 1.4 |
| 4/27/2015 | 4:07:17 | 54.59 | 52.19 | 29 | 3.17 | 0.40 | 1.6 |

## H167 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:03:58

**End Date:**
4/27/2015 4:08:18

**Operator Note:**
'2.4 2.2b Auto Complete'

**Northing:**
365,553.00

**Easting:**
249,411.35

**Tide (feet):**
2.40



## Hole: H168 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:06:44 | 32.81 | 30.31 | 535 | 1.77 | 0.15 | 29.2 |
| 4/27/2015 4:06:44 | 33.14 | 30.64 | 532 | 1.74 | 0.16 | 29.1 |
| 4/27/2015 4:06:45 | 33.46 | 30.96 | 535 | 1.75 | 0.16 | 29.2 |
| 4/27/2015 4:06:45 | 33.79 | 31.29 | 532 | 1.79 | 0.16 | 29.1 |
| 4/27/2015 4:06:47 | 34.12 | 31.62 | 532 | 1.78 | 0.16 | 29.1 |
| 4/27/2015 4:06:47 | 34.45 | 31.95 | 535 | 1.79 | 0.16 | 29.3 |
| 4/27/2015 4:06:48 | 34.78 | 32.28 | 532 | 1.78 | 0.16 | 29.1 |
| 4/27/2015 4:06:49 | 35.11 | 32.61 | 520 | 1.81 | 0.16 | 28.4 |
| 4/27/2015 4:06:49 | 35.43 | 32.93 | 520 | 1.78 | 0.16 | 28.4 |
| 4/27/2015 4:06:50 | 35.76 | 33.26 | 525 | 1.80 | 0.16 | 28.7 |
| 4/27/2015 4:06:50 | 36.09 | 33.59 | 511 | 1.79 | 0.16 | 27.9 |
| 4/27/2015 4:06:51 | 36.42 | 33.92 | 521 | 1.81 | 0.16 | 28.5 |
| 4/27/2015 4:06:52 | 36.75 | 34.25 | 524 | 1.76 | 0.16 | 28.7 |
| 4/27/2015 4:06:52 | 37.07 | 34.57 | 536 | 1.75 | 0.16 | 29.3 |
| 4/27/2015 4:06:53 | 37.40 | 34.90 | 542 | 1.81 | 0.16 | 29.6 |
| 4/27/2015 4:06:54 | 37.73 | 35.23 | 532 | 1.79 | 0.16 | 29.1 |
| 4/27/2015 4:06:54 | 38.06 | 35.56 | 532 | 1.77 | 0.16 | 29.1 |
| 4/27/2015 4:06:55 | 38.39 | 35.89 | 526 | 1.78 | 0.16 | 28.8 |
| 4/27/2015 4:06:56 | 38.71 | 36.21 | 529 | 1.81 | 0.16 | 28.9 |
| 4/27/2015 4:06:57 | 39.04 | 36.54 | 529 | 1.79 | 0.16 | 28.9 |
| 4/27/2015 4:06:57 | 39.37 | 36.87 | 529 | 1.79 | 0.16 | 28.9 |
| 4/27/2015 4:06:58 | 39.70 | 37.20 | 532 | 1.74 | 0.16 | 29.1 |
| 4/27/2015 4:06:59 | 40.03 | 37.53 | 529 | 1.77 | 0.16 | 28.9 |
| 4/27/2015 4:06:59 | 40.35 | 37.85 | 526 | 1.77 | 0.17 | 28.8 |
| 4/27/2015 4:07:00 | 40.68 | 38.18 | 529 | 1.76 | 0.16 | 28.9 |
| 4/27/2015 4:07:01 | 41.01 | 38.51 | 529 | 1.76 | 0.16 | 28.9 |
| 4/27/2015 4:07:01 | 41.34 | 38.84 | 532 | 1.75 | 0.16 | 29.1 |
| 4/27/2015 4:07:02 | 41.67 | 39.17 | 532 | 1.76 | 0.16 | 29.1 |
| 4/27/2015 4:07:03 | 41.99 | 39.49 | 529 | 1.77 | 0.16 | 28.9 |
| 4/27/2015 4:07:03 | 42.32 | 39.82 | 526 | 1.77 | 0.16 | 28.8 |
| 4/27/2015 4:07:04 | 42.65 | 40.15 | 529 | 1.77 | 0.16 | 28.9 |
| 4/27/2015 4:07:05 | 42.98 | 40.48 | 529 | 1.78 | 0.16 | 28.9 |
| 4/27/2015 4:07:05 | 43.31 | 40.81 | 529 | 1.79 | 0.16 | 28.9 |
| 4/27/2015 4:07:06 | 43.64 | 41.14 | 529 | 1.80 | 0.16 | 28.9 |
| 4/27/2015 4:07:06 | 43.96 | 41.46 | 529 | 1.80 | 0.16 | 28.9 |
| 4/27/2015 4:07:08 | 44.29 | 41.79 | 526 | 1.79 | 0.16 | 28.8 |
| 4/27/2015 4:07:08 | 44.62 | 42.12 | 532 | 1.77 | 0.16 | 29.1 |
| 4/27/2015 4:07:09 | 44.95 | 42.45 | 529 | 1.79 | 0.16 | 28.9 |
| 4/27/2015 4:07:10 | 45.28 | 42.78 | 529 | 1.77 | 0.16 | 28.9 |
| 4/27/2015 4:07:10 | 45.60 | 43.10 | 532 | 1.80 | 0.16 | 29.1 |
| 4/27/2015 4:07:11 | 45.93 | 43.43 | 526 | 1.77 | 0.16 | 28.8 |
| 4/27/2015 4:07:12 | 46.26 | 43.76 | 520 | 1.79 | 0.16 | 28.4 |
| 4/27/2015 4:07:12 | 46.59 | 44.09 | 529 | 1.75 | 0.15 | 29.0 |
| 4/27/2015 4:07:13 | 46.92 | 44.42 | 523 | 1.78 | 0.16 | 28.6 |
| 4/27/2015 4:07:13 | 47.24 | 44.74 | 527 | 1.78 | 0.16 | 28.8 |
| 4/27/2015 4:07:14 | 47.57 | 45.07 | 524 | 1.80 | 0.16 | 28.6 |
| 4/27/2015 4:07:15 | 47.90 | 45.40 | 524 | 1.79 | 0.16 | 28.6 |
| 4/27/2015 4:07:15 | 48.23 | 45.73 | 521 | 1.79 | 0.16 | 28.5 |
| 4/27/2015 4:07:26 | 48.56 | 46.06 | 49 | 1.84 | 1.36 | 2.7 |
| 4/27/2015 4:07:28 | 48.88 | 46.38 | 157 | 1.79 | 1.17 | 8.6 |
| 4/27/2015 4:07:30 | 49.21 | 46.71 | 240 | 1.83 | 1.15 | 13.1 |
| 4/27/2015 4:07:42 | 49.54 | 47.04 | 93 | 1.82 | 1.19 | 5.1 |
| 4/27/2015 4:07:54 | 49.87 | 47.37 | 23 | 1.81 | 1.13 | 1.3 |
| 4/27/2015 4:08:08 | 50.20 | 47.70 | 29 | 1.82 | 1.08 | 1.6 |
| 4/27/2015 4:08:17 | 50.53 | 48.03 | 46 | 1.82 | 1.14 | 2.5 |
| 4/27/2015 4:08:20 | 50.62 | 48.12 | 31 | 1.81 | 1.17 | 1.7 |

## H168 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:04:54

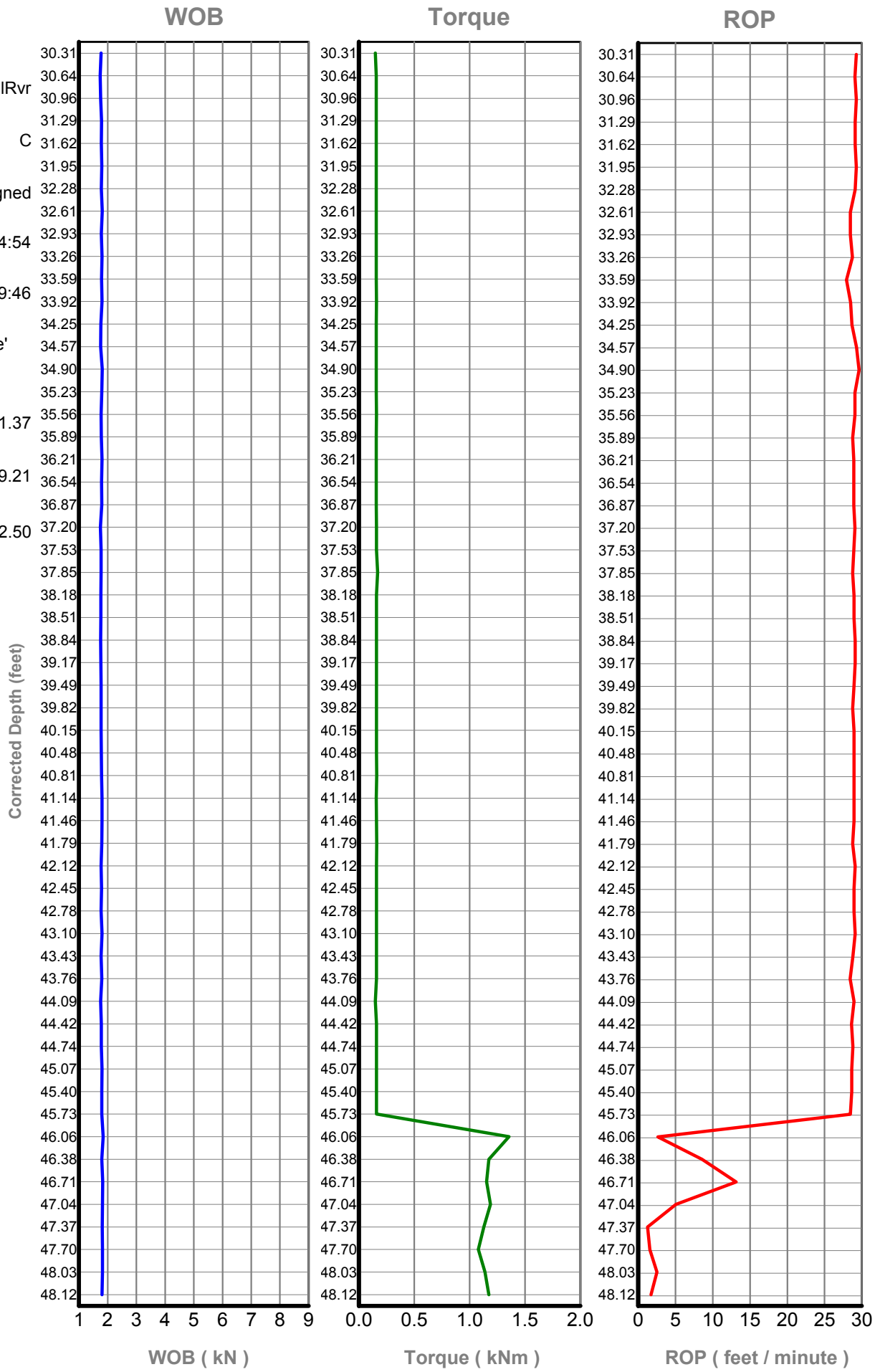
**End Date:**
4/27/2015 4:09:46

**Operator Note:**
'2.5 2.2 c Auto Complete'

**Northing:**
365,601.37

**Easting:**
249,469.21

**Tide (feet):**
2.50



## Hole: H169 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:50:57 | 32.81 | 30.21 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 0:50:57 | 33.14 | 30.54 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:50:58 | 33.46 | 30.86 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:50:58 | 33.79 | 31.19 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:50:58 | 34.12 | 31.52 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:50:59 | 34.45 | 31.85 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:50:59 | 34.78 | 32.18 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:50:59 | 35.11 | 32.51 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:50:59 | 35.43 | 32.83 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:51:00 | 35.76 | 33.16 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/27/2015 0:51:00 | 36.09 | 33.49 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/27/2015 0:51:00 | 36.42 | 33.82 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:51:01 | 36.75 | 34.15 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 0:51:01 | 37.07 | 34.47 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 0:51:01 | 37.40 | 34.80 | 999 | 0.30 | 0.31 | 54.6 |
| 4/27/2015 0:51:02 | 37.73 | 35.13 | 999 | 0.31 | 0.31 | 54.6 |
| 4/27/2015 0:51:02 | 38.06 | 35.46 | 999 | 0.31 | 0.31 | 54.6 |
| 4/27/2015 0:51:02 | 38.39 | 35.79 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:51:03 | 38.71 | 36.11 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/27/2015 0:51:03 | 39.04 | 36.44 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/27/2015 0:51:03 | 39.37 | 36.77 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 0:51:04 | 39.70 | 37.10 | 1,025 | 0.31 | 0.31 | 56.0 |
| 4/27/2015 0:51:04 | 40.03 | 37.43 | 1,025 | 0.31 | 0.31 | 56.0 |
| 4/27/2015 0:51:04 | 40.35 | 37.75 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:51:05 | 40.68 | 38.08 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/27/2015 0:51:05 | 41.01 | 38.41 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/27/2015 0:51:05 | 41.34 | 38.74 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/27/2015 0:51:06 | 41.67 | 39.07 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 0:51:07 | 41.99 | 39.39 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 0:51:07 | 42.32 | 39.72 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:51:07 | 42.65 | 40.05 | 1,047 | 0.30 | 0.31 | 57.2 |
| 4/27/2015 0:51:08 | 42.98 | 40.38 | 1,047 | 0.30 | 0.31 | 57.2 |
| 4/27/2015 0:51:08 | 43.31 | 40.71 | 1,047 | 0.32 | 0.31 | 57.2 |
| 4/27/2015 0:51:08 | 43.64 | 41.04 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:51:09 | 43.96 | 41.36 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 0:51:09 | 44.29 | 41.69 | 1,049 | 0.31 | 0.30 | 57.4 |
| 4/27/2015 0:51:09 | 44.62 | 42.02 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/27/2015 0:51:10 | 44.95 | 42.35 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/27/2015 0:51:10 | 45.28 | 42.68 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 0:51:10 | 45.60 | 43.00 | 1,034 | 0.30 | 0.31 | 56.6 |
| 4/27/2015 0:51:11 | 45.93 | 43.33 | 1,034 | 0.30 | 0.31 | 56.6 |
| 4/27/2015 0:51:11 | 46.26 | 43.66 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:51:11 | 46.59 | 43.99 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/27/2015 0:51:12 | 46.92 | 44.32 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/27/2015 0:51:12 | 47.24 | 44.64 | 1,038 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 0:51:12 | 47.57 | 44.97 | 1,035 | 0.20 | 0.31 | 56.6 |
| 4/27/2015 0:51:13 | 47.90 | 45.30 | 1,035 | 0.20 | 0.31 | 56.6 |
| 4/27/2015 0:51:13 | 48.23 | 45.63 | 1,035 | 0.30 | 0.32 | 56.6 |
| 4/27/2015 0:51:13 | 48.56 | 45.96 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:51:14 | 48.88 | 46.28 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 0:51:14 | 49.21 | 46.61 | 1,029 | 0.29 | 0.33 | 56.3 |
| 4/27/2015 0:51:14 | 49.54 | 46.94 | 1,000 | 0.29 | 0.36 | 54.7 |
| 4/27/2015 0:51:34 | 49.87 | 47.27 | 0 | 5.10 | 0.37 | 0.0 |
| 4/27/2015 0:51:36 | 50.20 | 47.60 | 135 | 3.39 | 0.39 | 7.4 |
| 4/27/2015 0:51:42 | 50.53 | 47.93 | 69 | 3.73 | 0.38 | 3.7 |
| 4/27/2015 0:51:46 | 50.85 | 48.25 | 95 | 3.74 | 0.39 | 5.2 |
| 4/27/2015 0:51:51 | 51.18 | 48.58 | 70 | 3.75 | 0.39 | 3.9 |
| 4/27/2015 0:51:55 | 51.51 | 48.91 | 93 | 3.36 | 0.39 | 5.1 |
| 4/27/2015 0:52:02 | 51.84 | 49.24 | 55 | 2.91 | 0.39 | 3.0 |
| 4/27/2015 0:52:11 | 52.17 | 49.57 | 41 | 2.92 | 0.39 | 2.2 |
| 4/27/2015 0:52:18 | 52.49 | 49.89 | 61 | 2.71 | 0.40 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 0:52:28 | 52.82 | 50.22 | 34 | 3.31 | 0.39 | 1.8 |
| 4/27/2015 | 0:52:30 | 52.88 | 50.28 | 39 | 4.55 | 0.39 | 2.2 |

## H169 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:48:52

**End Date:**
4/27/2015 0:53:56

**Operator Note:**
'2.6 2.8 b Auto Complete'

**Northing:**
365,646.92

**Easting:**
249,542.87

**Tide (feet):**
2.60



## Hole: H17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:58:02 | 31.82 | 30.22 | 1,049 | 0.31 | 0.32 | 57.3 |
| 4/26/2015 12:58:03 | 32.15 | 30.55 | 1,046 | 0.33 | 0.31 | 57.2 |
| 4/26/2015 12:58:03 | 32.48 | 30.88 | 1,046 | 0.33 | 0.31 | 57.2 |
| 4/26/2015 12:58:03 | 32.81 | 31.21 | 1,043 | 0.29 | 0.31 | 57.1 |
| 4/26/2015 12:58:04 | 33.14 | 31.54 | 1,043 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:58:04 | 33.46 | 31.86 | 1,043 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:58:04 | 33.79 | 32.19 | 1,043 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:58:05 | 34.12 | 32.52 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/26/2015 12:58:05 | 34.45 | 32.85 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/26/2015 12:58:05 | 34.78 | 33.18 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:58:06 | 35.11 | 33.51 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/26/2015 12:58:06 | 35.43 | 33.83 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/26/2015 12:58:06 | 35.76 | 34.16 | 1,052 | 0.32 | 0.32 | 57.6 |
| 4/26/2015 12:58:07 | 36.09 | 34.49 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:58:08 | 36.42 | 34.82 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 12:58:07 | 36.75 | 35.15 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/26/2015 12:58:08 | 37.07 | 35.47 | 1,010 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 12:58:09 | 37.40 | 35.80 | 1,010 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 12:58:09 | 37.73 | 36.13 | 1,025 | 0.32 | 0.32 | 56.1 |
| 4/26/2015 12:58:09 | 38.06 | 36.46 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 12:58:10 | 38.39 | 36.79 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 12:58:10 | 38.71 | 37.11 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 12:58:10 | 39.04 | 37.44 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 12:58:11 | 39.37 | 37.77 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 12:58:11 | 39.70 | 38.10 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 12:58:11 | 40.03 | 38.43 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 12:58:11 | 40.35 | 38.75 | 1,025 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 12:58:12 | 40.68 | 39.08 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:58:12 | 41.01 | 39.41 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:58:12 | 41.34 | 39.74 | 1,016 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 12:58:13 | 41.67 | 40.07 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/26/2015 12:58:13 | 41.99 | 40.39 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/26/2015 12:58:13 | 42.32 | 40.72 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 12:58:14 | 42.65 | 41.05 | 1,042 | 0.32 | 0.32 | 57.0 |
| 4/26/2015 12:58:14 | 42.98 | 41.38 | 1,042 | 0.32 | 0.32 | 57.0 |
| 4/26/2015 12:58:14 | 43.31 | 41.71 | 1,023 | 0.31 | 0.34 | 55.9 |
| 4/26/2015 12:58:21 | 43.64 | 42.04 | 53 | 5.39 | 0.36 | 2.9 |
| 4/26/2015 12:58:23 | 43.96 | 42.36 | 188 | 6.41 | 0.41 | 10.3 |
| 4/26/2015 12:58:25 | 44.29 | 42.69 | 122 | 3.91 | 0.37 | 6.7 |
| 4/26/2015 12:58:31 | 44.62 | 43.02 | 29 | 5.80 | 0.37 | 1.6 |
| 4/26/2015 12:58:32 | 44.95 | 43.35 | 145 | 4.83 | 0.37 | 7.9 |
| 4/26/2015 12:58:37 | 45.28 | 43.68 | 64 | 4.56 | 0.38 | 3.5 |
| 4/26/2015 12:58:40 | 45.60 | 44.00 | 154 | 2.65 | 0.36 | 8.4 |
| 4/26/2015 12:58:40 | 45.93 | 44.33 | 251 | 3.50 | 0.37 | 13.7 |
| 4/26/2015 12:58:55 | 46.26 | 44.66 | 23 | 3.98 | 0.36 | 1.2 |
| 4/26/2015 12:59:04 | 46.59 | 44.99 | 3 | 5.11 | 0.38 | 0.2 |
| 4/26/2015 12:59:05 | 46.92 | 45.32 | 42 | 3.56 | 0.37 | 2.3 |
| 4/26/2015 12:59:06 | 47.24 | 45.64 | 183 | 3.49 | 0.37 | 10.0 |
| 4/26/2015 12:59:07 | 47.57 | 45.97 | 329 | 3.67 | 0.37 | 18.0 |
| 4/26/2015 12:59:08 | 47.90 | 46.30 | 329 | 3.96 | 0.37 | 18.0 |
| 4/26/2015 12:59:41 | 48.23 | 46.63 | 52 | 2.86 | 0.36 | 2.8 |
| 4/26/2015 12:59:43 | 48.56 | 46.96 | 257 | 2.29 | 0.35 | 14.1 |
| 4/26/2015 12:59:43 | 48.88 | 47.28 | 387 | 2.84 | 0.35 | 21.2 |
| 4/26/2015 13:01:25 | 49.21 | 47.61 | 0 | 3.22 | 0.37 | 0.0 |
| 4/26/2015 13:01:34 | 49.54 | 47.94 | 32 | 5.35 | 0.39 | 1.8 |
| 4/26/2015 13:01:44 | 49.87 | 48.27 | 9 | 3.64 | 0.40 | 0.5 |
| 4/26/2015 13:01:47 | 50.20 | 48.60 | 47 | 3.83 | 0.37 | 2.6 |
| 4/26/2015 13:01:48 | 50.53 | 48.93 | 236 | 4.34 | 0.40 | 12.9 |
| 4/26/2015 13:01:49 | 50.85 | 49.25 | 330 | 3.24 | 0.37 | 18.0 |
| 4/26/2015 13:01:57 | 51.18 | 49.58 | 0 | 4.43 | 0.40 | 0.0 |
| 4/26/2015 13:02:00 | 51.51 | 49.91 | 147 | 3.13 | 0.39 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 13:02:03 | 51.84 | 50.24 | 116 | 3.14 | 0.40 | 6.4 |
| 4/26/2015 | 13:02:07 | 52.17 | 50.57 | 87 | 3.24 | 0.40 | 4.7 |
| 4/26/2015 | 13:02:11 | 52.49 | 50.89 | 101 | 3.15 | 0.39 | 5.5 |
| 4/26/2015 | 13:02:13 | 52.82 | 51.22 | 162 | 3.67 | 0.39 | 8.9 |
| 4/26/2015 | 13:02:23 | 53.15 | 51.55 | 12 | 2.92 | 0.40 | 0.6 |
| 4/26/2015 | 13:02:27 | 53.48 | 51.88 | 81 | 3.69 | 0.40 | 4.4 |
| 4/26/2015 | 13:02:32 | 53.81 | 52.21 | 85 | 3.52 | 0.40 | 4.7 |
| 4/26/2015 | 13:02:36 | 54.13 | 52.53 | 87 | 3.58 | 0.40 | 4.7 |
| 4/26/2015 | 13:02:40 | 54.46 | 52.86 | 84 | 3.30 | 0.40 | 4.6 |
| 4/26/2015 | 13:02:46 | 54.79 | 53.19 | 54 | 3.43 | 0.40 | 2.9 |
| 4/26/2015 | 13:02:51 | 55.12 | 53.52 | 76 | 3.55 | 0.47 | 4.1 |
| 4/26/2015 | 13:02:56 | 55.45 | 53.85 | 78 | 3.39 | 0.40 | 4.3 |
| 4/26/2015 | 13:03:01 | 55.77 | 54.17 | 75 | 3.67 | 0.40 | 4.1 |
| 4/26/2015 | 13:03:05 | 56.10 | 54.50 | 78 | 3.41 | 0.40 | 4.3 |
| 4/26/2015 | 13:03:10 | 56.43 | 54.83 | 72 | 3.66 | 0.40 | 3.9 |
| 4/26/2015 | 13:03:14 | 56.71 | 55.11 | 72 | 2.98 | 0.40 | 3.9 |

## H17 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:55:50

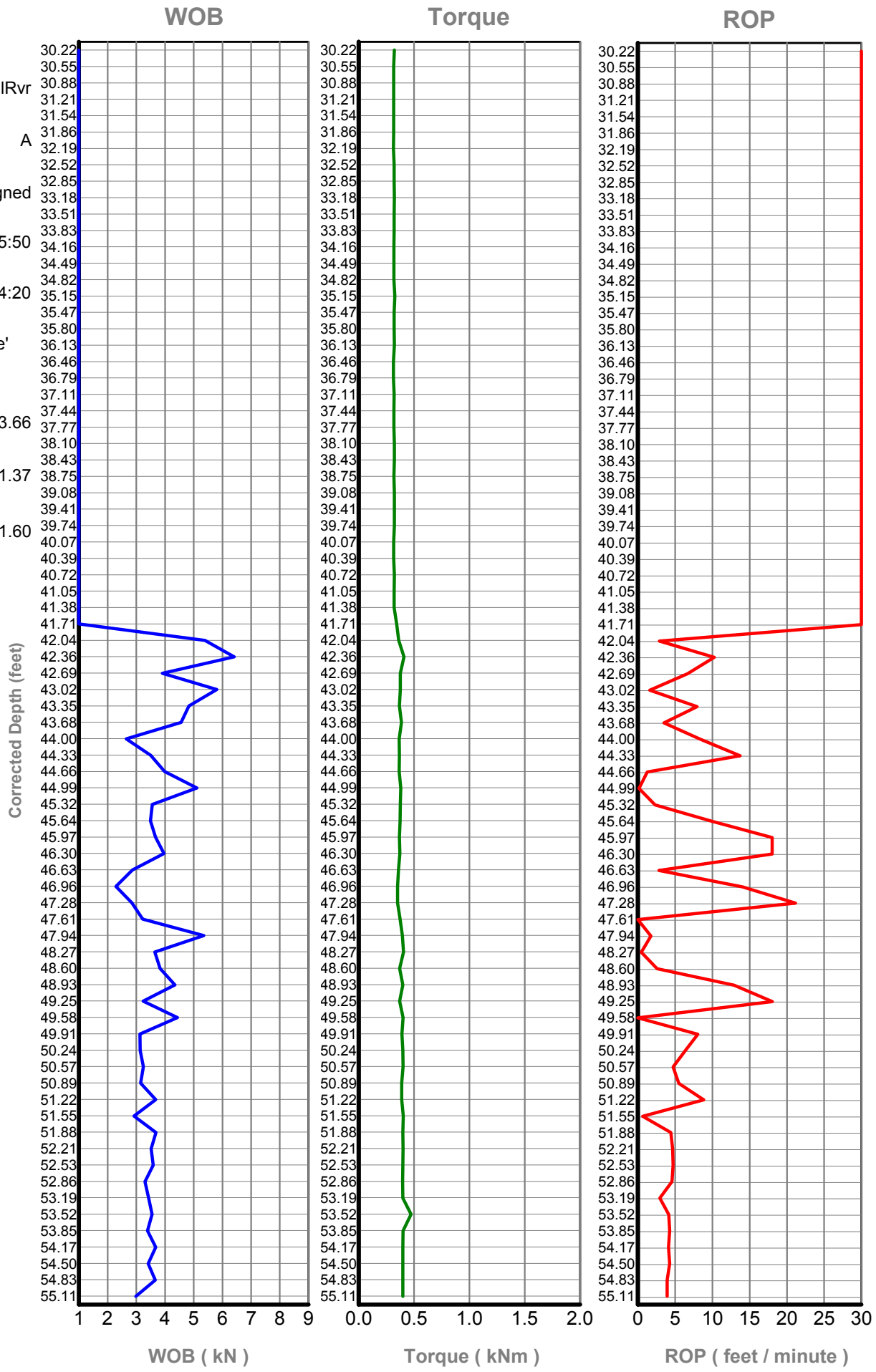
**End Date:**
4/26/2015 13:04:20

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
366,353.66

**Easting:**
249,931.37

**Tide (feet):**
1.60



## Hole: H170 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:57:41 | 32.81 | 30.21 | 1,066 | 0.31 | 0.31 | 58.3 |
| 4/27/2015 0:57:42 | 33.14 | 30.54 | 1,066 | 0.31 | 0.31 | 58.3 |
| 4/27/2015 0:57:42 | 33.46 | 30.86 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/27/2015 0:57:42 | 33.79 | 31.19 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/27/2015 0:57:42 | 34.12 | 31.52 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:57:43 | 34.45 | 31.85 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:57:43 | 34.78 | 32.18 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:57:43 | 35.11 | 32.51 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/27/2015 0:57:44 | 35.43 | 32.83 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:57:44 | 35.76 | 33.16 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:57:44 | 36.09 | 33.49 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:45 | 36.42 | 33.82 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:57:45 | 36.75 | 34.15 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:57:45 | 37.07 | 34.47 | 1,054 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:57:46 | 37.40 | 34.80 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:46 | 37.73 | 35.13 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:46 | 38.06 | 35.46 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:47 | 38.39 | 35.79 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:47 | 38.71 | 36.11 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:47 | 39.04 | 36.44 | 1,076 | 0.31 | 0.31 | 58.8 |
| 4/27/2015 0:57:48 | 39.37 | 36.77 | 1,076 | 0.31 | 0.31 | 58.8 |
| 4/27/2015 0:57:48 | 39.70 | 37.10 | 1,070 | 0.31 | 0.30 | 58.5 |
| 4/27/2015 0:57:48 | 40.03 | 37.43 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:57:49 | 40.35 | 37.75 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:57:49 | 40.68 | 38.08 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:57:49 | 41.01 | 38.41 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:57:50 | 41.34 | 38.74 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 0:57:50 | 41.67 | 39.07 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:57:50 | 41.99 | 39.39 | 1,076 | 0.31 | 0.32 | 58.8 |
| 4/27/2015 0:57:51 | 42.32 | 39.72 | 1,076 | 0.31 | 0.32 | 58.8 |
| 4/27/2015 0:57:51 | 42.65 | 40.05 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:51 | 42.98 | 40.38 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:51 | 43.31 | 40.71 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/27/2015 0:57:52 | 43.64 | 41.04 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:53 | 43.96 | 41.36 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:53 | 44.29 | 41.69 | 1,068 | 0.30 | 0.31 | 58.4 |
| 4/27/2015 0:57:53 | 44.62 | 42.02 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:54 | 44.95 | 42.35 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 0:57:54 | 45.28 | 42.68 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:57:54 | 45.60 | 43.00 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:57:55 | 45.93 | 43.33 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:57:55 | 46.26 | 43.66 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/27/2015 0:57:55 | 46.59 | 43.99 | 1,049 | 0.31 | 0.31 | 57.3 |
| 4/27/2015 0:57:56 | 46.92 | 44.32 | 1,049 | 0.31 | 0.31 | 57.3 |
| 4/27/2015 0:57:56 | 47.24 | 44.64 | 1,049 | 0.30 | 0.31 | 57.3 |
| 4/27/2015 0:57:56 | 47.57 | 44.97 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/27/2015 0:57:57 | 47.90 | 45.30 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/27/2015 0:57:57 | 48.23 | 45.63 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/27/2015 0:57:57 | 48.56 | 45.96 | 1,024 | 0.29 | 0.34 | 56.0 |
| 4/27/2015 0:57:58 | 48.88 | 46.28 | 990 | 0.27 | 0.38 | 54.1 |
| 4/27/2015 0:58:14 | 49.21 | 46.61 | 73 | 2.33 | 0.35 | 4.0 |
| 4/27/2015 0:58:15 | 49.54 | 46.94 | 152 | 2.40 | 0.37 | 8.3 |
| 4/27/2015 0:58:29 | 49.87 | 47.27 | 41 | 3.81 | 0.40 | 2.2 |
| 4/27/2015 0:58:37 | 50.20 | 47.60 | 43 | 3.15 | 0.40 | 2.4 |
| 4/27/2015 0:58:46 | 50.53 | 47.93 | 41 | 2.57 | 0.40 | 2.3 |
| 4/27/2015 0:58:55 | 50.85 | 48.25 | 37 | 2.82 | 0.40 | 2.0 |
| 4/27/2015 0:58:59 | 51.18 | 48.58 | 98 | 3.89 | 0.39 | 5.4 |
| 4/27/2015 0:59:03 | 51.51 | 48.91 | 81 | 3.97 | 0.38 | 4.4 |
| 4/27/2015 0:59:06 | 51.84 | 49.24 | 136 | 4.06 | 0.38 | 7.4 |
| 4/27/2015 0:59:11 | 52.17 | 49.57 | 37 | 2.57 | 0.39 | 2.1 |
| 4/27/2015 0:59:21 | 52.49 | 49.89 | 40 | 2.56 | 0.40 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 0:59:29 | 52.82 | 50.22 | 41 | 3.36 | 0.40 | 2.2 |
| 4/27/2015 | 0:59:37 | 53.15 | 50.55 | 44 | 3.53 | 0.39 | 2.4 |
| 4/27/2015 | 0:59:39 | 53.24 | 50.64 | 52 | 4.09 | 0.40 | 2.9 |

## H170 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:55:43

**End Date:**
4/27/2015 1:01:10

**Operator Note:**
'2.6 2.6 b Auto Complete'

**Northing:**
365,683.60

**Easting:**
249,589.10

**Tide (feet):**
2.60



## Hole: H171 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:50:34 | 32.81 | 30.21 | 589 | 1.79 | 0.32 | 32.2 |
| 4/27/2015 0:50:35 | 33.14 | 30.54 | 589 | 1.79 | 0.32 | 32.2 |
| 4/27/2015 0:50:35 | 33.46 | 30.86 | 595 | 1.78 | 0.32 | 32.6 |
| 4/27/2015 0:50:36 | 33.79 | 31.19 | 595 | 1.80 | 0.32 | 32.5 |
| 4/27/2015 0:50:36 | 34.12 | 31.52 | 599 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:37 | 34.45 | 31.85 | 595 | 1.79 | 0.31 | 32.5 |
| 4/27/2015 0:50:37 | 34.78 | 32.18 | 608 | 1.79 | 0.32 | 33.2 |
| 4/27/2015 0:50:38 | 35.11 | 32.51 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:39 | 35.43 | 32.83 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:39 | 35.76 | 33.16 | 598 | 1.81 | 0.32 | 32.7 |
| 4/27/2015 0:50:40 | 36.09 | 33.49 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:40 | 36.42 | 33.82 | 595 | 1.76 | 0.32 | 32.6 |
| 4/27/2015 0:50:41 | 36.75 | 34.15 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:41 | 37.07 | 34.47 | 595 | 1.81 | 0.32 | 32.5 |
| 4/27/2015 0:50:42 | 37.40 | 34.80 | 598 | 1.77 | 0.32 | 32.7 |
| 4/27/2015 0:50:43 | 37.73 | 35.13 | 598 | 1.80 | 0.32 | 32.7 |
| 4/27/2015 0:50:43 | 38.06 | 35.46 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:44 | 38.39 | 35.79 | 601 | 1.80 | 0.32 | 32.9 |
| 4/27/2015 0:50:45 | 38.71 | 36.11 | 598 | 1.81 | 0.32 | 32.7 |
| 4/27/2015 0:50:45 | 39.04 | 36.44 | 598 | 1.81 | 0.32 | 32.7 |
| 4/27/2015 0:50:46 | 39.37 | 36.77 | 595 | 1.79 | 0.29 | 32.5 |
| 4/27/2015 0:50:47 | 39.70 | 37.10 | 596 | 1.81 | 0.32 | 32.6 |
| 4/27/2015 0:50:47 | 40.03 | 37.43 | 596 | 1.79 | 0.32 | 32.6 |
| 4/27/2015 0:50:48 | 40.35 | 37.75 | 598 | 1.78 | 0.39 | 32.7 |
| 4/27/2015 0:50:48 | 40.68 | 38.08 | 601 | 1.79 | 0.32 | 32.9 |
| 4/27/2015 0:50:49 | 41.01 | 38.41 | 598 | 1.79 | 0.33 | 32.7 |
| 4/27/2015 0:50:49 | 41.34 | 38.74 | 598 | 1.81 | 0.32 | 32.7 |
| 4/27/2015 0:50:50 | 41.67 | 39.07 | 595 | 1.81 | 0.32 | 32.5 |
| 4/27/2015 0:50:51 | 41.99 | 39.39 | 596 | 1.81 | 0.32 | 32.6 |
| 4/27/2015 0:50:51 | 42.32 | 39.72 | 596 | 1.79 | 0.32 | 32.6 |
| 4/27/2015 0:50:52 | 42.65 | 40.05 | 598 | 1.79 | 0.32 | 32.7 |
| 4/27/2015 0:50:52 | 42.98 | 40.38 | 602 | 1.78 | 0.32 | 32.9 |
| 4/27/2015 0:50:53 | 43.31 | 40.71 | 595 | 1.74 | 0.32 | 32.6 |
| 4/27/2015 0:50:53 | 43.64 | 41.04 | 595 | 1.76 | 0.32 | 32.6 |
| 4/27/2015 0:50:55 | 43.96 | 41.36 | 593 | 1.77 | 0.32 | 32.4 |
| 4/27/2015 0:50:55 | 44.29 | 41.69 | 589 | 1.78 | 0.32 | 32.2 |
| 4/27/2015 0:50:56 | 44.62 | 42.02 | 593 | 1.81 | 0.32 | 32.4 |
| 4/27/2015 0:50:56 | 44.95 | 42.35 | 593 | 1.76 | 0.32 | 32.4 |
| 4/27/2015 0:50:57 | 45.28 | 42.68 | 595 | 1.79 | 0.32 | 32.6 |
| 4/27/2015 0:50:57 | 45.60 | 43.00 | 595 | 1.81 | 0.32 | 32.6 |
| 4/27/2015 0:50:58 | 45.93 | 43.33 | 595 | 1.81 | 0.32 | 32.6 |
| 4/27/2015 0:50:59 | 46.26 | 43.66 | 588 | 1.79 | 0.32 | 32.2 |
| 4/27/2015 0:50:59 | 46.59 | 43.99 | 588 | 1.77 | 0.32 | 32.2 |
| 4/27/2015 0:51:00 | 46.92 | 44.32 | 591 | 1.81 | 0.32 | 32.3 |
| 4/27/2015 0:51:00 | 47.24 | 44.64 | 590 | 1.78 | 0.32 | 32.3 |
| 4/27/2015 0:51:01 | 47.57 | 44.97 | 597 | 1.75 | 0.32 | 32.6 |
| 4/27/2015 0:51:01 | 47.90 | 45.30 | 594 | 1.76 | 0.32 | 32.5 |
| 4/27/2015 0:51:02 | 48.23 | 45.63 | 596 | 1.77 | 0.32 | 32.6 |
| 4/27/2015 0:51:03 | 48.56 | 45.96 | 596 | 1.77 | 0.32 | 32.6 |
| 4/27/2015 0:51:03 | 48.88 | 46.28 | 593 | 1.81 | 0.32 | 32.4 |
| 4/27/2015 0:51:04 | 49.21 | 46.61 | 593 | 1.75 | 0.32 | 32.4 |
| 4/27/2015 0:51:18 | 49.54 | 46.94 | 95 | 1.78 | 1.21 | 5.2 |
| 4/27/2015 0:51:21 | 49.87 | 47.27 | 113 | 1.76 | 1.30 | 6.2 |
| 4/27/2015 0:51:25 | 50.20 | 47.60 | 92 | 1.79 | 1.23 | 5.1 |
| 4/27/2015 0:51:29 | 50.53 | 47.93 | 93 | 1.74 | 1.15 | 5.1 |
| 4/27/2015 0:51:31 | 50.85 | 48.25 | 143 | 1.78 | 1.17 | 7.8 |
| 4/27/2015 0:51:33 | 51.18 | 48.58 | 170 | 1.79 | 1.24 | 9.3 |
| 4/27/2015 0:51:43 | 51.51 | 48.91 | 38 | 1.79 | 1.12 | 2.1 |
| 4/27/2015 0:51:53 | 51.84 | 49.24 | 36 | 1.79 | 1.08 | 2.0 |
| 4/27/2015 0:52:01 | 52.17 | 49.57 | 40 | 1.77 | 1.14 | 2.2 |
| 4/27/2015 0:52:06 | 52.30 | 49.70 | 32 | 1.79 | 1.11 | 1.7 |

## H171 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:49:06

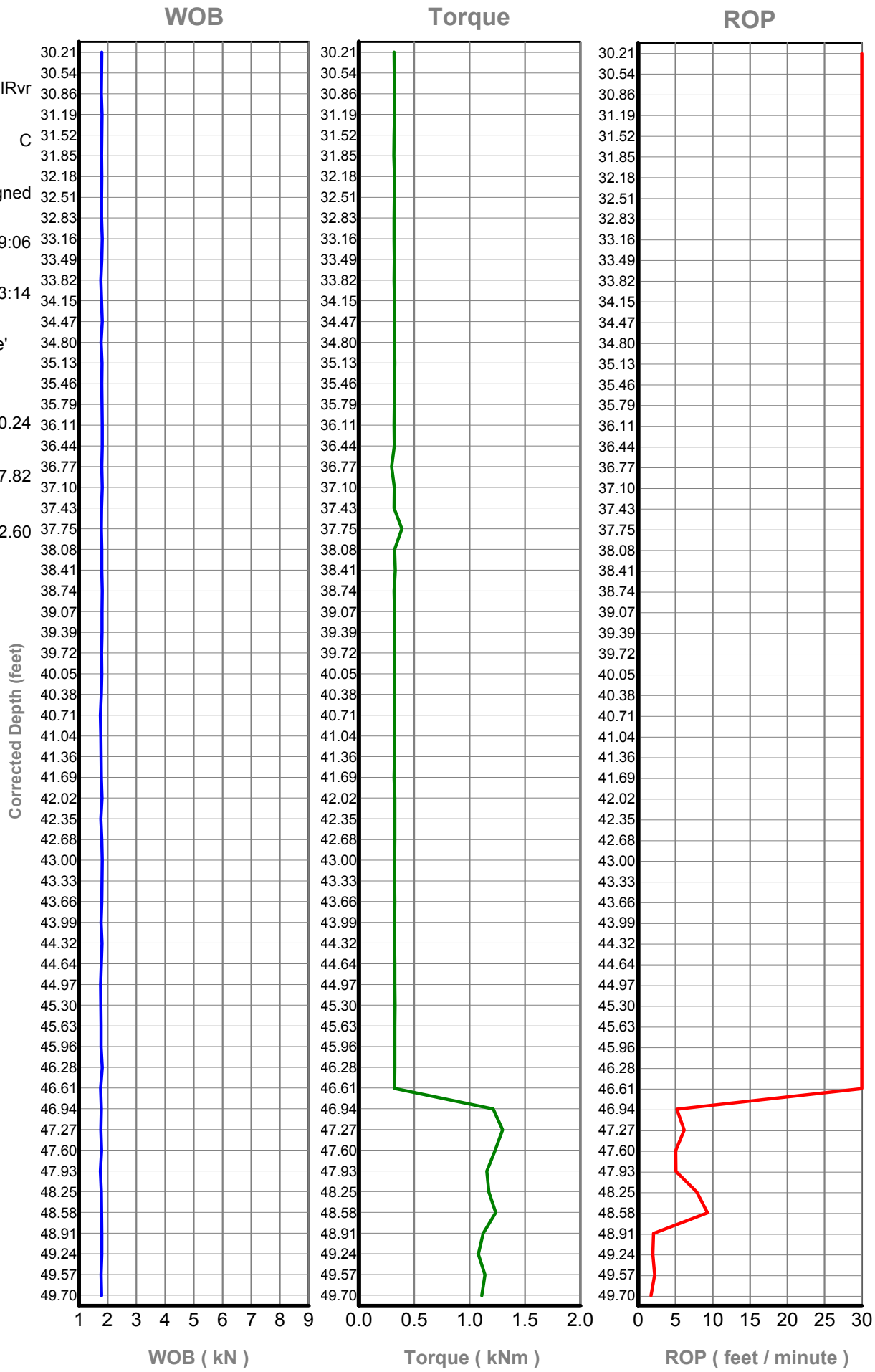
**End Date:**
4/27/2015 0:53:14

**Operator Note:**
'2.6 2.8 c Auto Complete'

**Northing:**
365,730.24

**Easting:**
249,647.82

**Tide (feet):**
2.60



## Hole: H172 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:37:02 | 35.76 | 30.06 | 970 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 21:37:02 | 36.09 | 30.39 | 970 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 21:37:02 | 36.42 | 30.72 | 974 | 0.33 | 0.33 | 53.2 |
| 4/26/2015 21:37:03 | 36.75 | 31.05 | 985 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:03 | 37.07 | 31.37 | 976 | 0.33 | 0.32 | 53.4 |
| 4/26/2015 21:37:04 | 37.40 | 31.70 | 976 | 0.33 | 0.32 | 53.4 |
| 4/26/2015 21:37:04 | 37.73 | 32.03 | 995 | 0.33 | 0.33 | 54.4 |
| 4/26/2015 21:37:04 | 38.06 | 32.36 | 995 | 0.34 | 0.32 | 54.4 |
| 4/26/2015 21:37:05 | 38.39 | 32.69 | 995 | 0.34 | 0.32 | 54.4 |
| 4/26/2015 21:37:05 | 38.71 | 33.01 | 994 | 0.33 | 0.33 | 54.4 |
| 4/26/2015 21:37:05 | 39.04 | 33.34 | 989 | 0.34 | 0.32 | 54.1 |
| 4/26/2015 21:37:06 | 39.37 | 33.67 | 989 | 0.34 | 0.32 | 54.1 |
| 4/26/2015 21:37:06 | 39.70 | 34.00 | 995 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 21:37:06 | 40.03 | 34.33 | 986 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:07 | 40.35 | 34.65 | 986 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:07 | 40.68 | 34.98 | 998 | 0.33 | 0.32 | 54.6 |
| 4/26/2015 21:37:07 | 41.01 | 35.31 | 992 | 0.34 | 0.32 | 54.2 |
| 4/26/2015 21:37:08 | 41.34 | 35.64 | 992 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 21:37:08 | 41.67 | 35.97 | 992 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 21:37:08 | 41.99 | 36.29 | 986 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:09 | 42.32 | 36.62 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 21:37:09 | 42.65 | 36.95 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 21:37:09 | 42.98 | 37.28 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 21:37:10 | 43.31 | 37.61 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 21:37:11 | 43.64 | 37.94 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 21:37:11 | 43.96 | 38.26 | 973 | 0.33 | 0.32 | 53.2 |
| 4/26/2015 21:37:11 | 44.29 | 38.59 | 973 | 0.33 | 0.33 | 53.2 |
| 4/26/2015 21:37:12 | 44.62 | 38.92 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 21:37:12 | 44.95 | 39.25 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 21:37:12 | 45.28 | 39.58 | 980 | 0.35 | 0.32 | 53.6 |
| 4/26/2015 21:37:13 | 45.60 | 39.90 | 964 | 0.33 | 0.32 | 52.7 |
| 4/26/2015 21:37:13 | 45.93 | 40.23 | 964 | 0.33 | 0.32 | 52.7 |
| 4/26/2015 21:37:13 | 46.26 | 40.56 | 964 | 0.33 | 0.32 | 52.7 |
| 4/26/2015 21:37:14 | 46.59 | 40.89 | 989 | 0.33 | 0.33 | 54.1 |
| 4/26/2015 21:37:14 | 46.92 | 41.22 | 989 | 0.33 | 0.33 | 54.1 |
| 4/26/2015 21:37:14 | 47.24 | 41.54 | 978 | 0.33 | 0.32 | 53.5 |
| 4/26/2015 21:37:15 | 47.57 | 41.87 | 975 | 0.33 | 0.32 | 53.3 |
| 4/26/2015 21:37:15 | 47.90 | 42.20 | 986 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:16 | 48.23 | 42.53 | 986 | 0.33 | 0.32 | 53.9 |
| 4/26/2015 21:37:16 | 48.56 | 42.86 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 21:37:16 | 48.88 | 43.18 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 21:37:17 | 49.21 | 43.51 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 21:37:17 | 49.54 | 43.84 | 966 | 0.33 | 0.32 | 52.8 |
| 4/26/2015 21:37:17 | 49.87 | 44.17 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 21:37:18 | 50.20 | 44.50 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 21:37:18 | 50.53 | 44.83 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 21:37:18 | 50.85 | 45.15 | 970 | 0.33 | 0.33 | 53.0 |
| 4/26/2015 21:37:19 | 51.18 | 45.48 | 967 | 0.33 | 0.32 | 52.9 |
| 4/26/2015 21:37:19 | 51.51 | 45.81 | 967 | 0.33 | 0.32 | 52.9 |
| 4/26/2015 21:37:19 | 51.84 | 46.14 | 967 | 0.32 | 0.34 | 52.9 |
| 4/26/2015 21:37:20 | 52.17 | 46.47 | 955 | 0.31 | 0.37 | 52.2 |
| 4/26/2015 21:37:26 | 52.49 | 46.79 | 59 | 3.79 | 0.38 | 3.2 |
| 4/26/2015 21:37:28 | 52.82 | 47.12 | 180 | 3.20 | 0.38 | 9.8 |
| 4/26/2015 21:37:37 | 53.15 | 47.45 | 65 | 3.99 | 0.40 | 3.6 |
| 4/26/2015 21:37:43 | 53.48 | 47.78 | 61 | 4.01 | 0.40 | 3.3 |
| 4/26/2015 21:37:50 | 53.81 | 48.11 | 41 | 3.48 | 0.41 | 2.2 |
| 4/26/2015 21:37:55 | 53.98 | 48.28 | 40 | 3.33 | 0.41 | 2.2 |

## H172 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:34:53

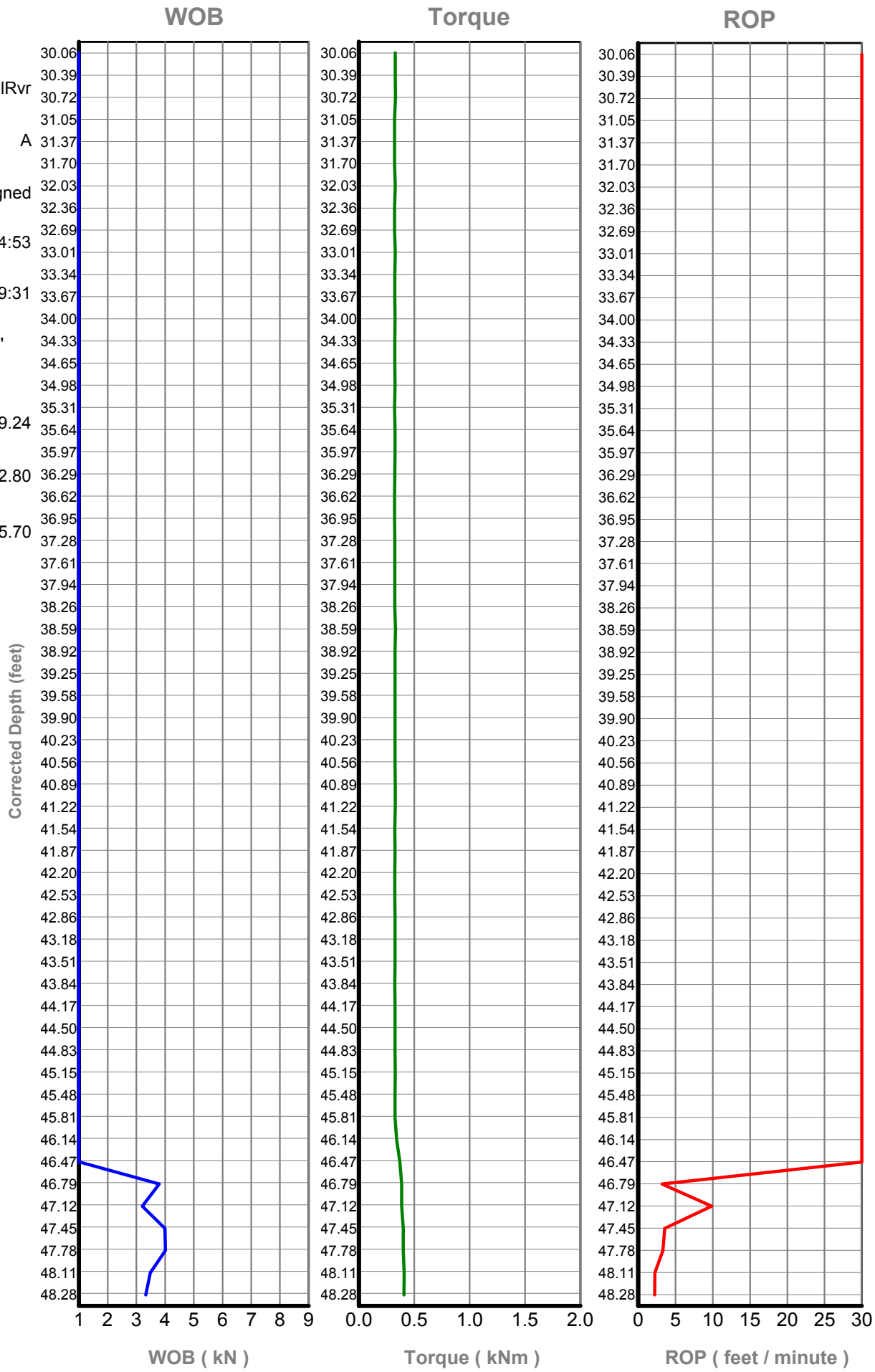
**End Date:**
4/26/2015 21:39:31

**Operator Note:**
'5.7 5.8b Auto Complete'

**Northing:**
365,789.24

**Easting:**
249,712.80

**Tide (feet):**
5.70



## Hole: H173 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:40:17 | 35.76 | 30.06 | 621 | 1.75 | 0.16 | 34.0 |
| 4/26/2015 21:40:18 | 36.09 | 30.39 | 621 | 1.78 | 0.16 | 34.0 |
| 4/26/2015 21:40:18 | 36.42 | 30.72 | 621 | 1.80 | 0.16 | 34.0 |
| 4/26/2015 21:40:19 | 36.75 | 31.05 | 615 | 1.79 | 0.16 | 33.6 |
| 4/26/2015 21:40:20 | 37.07 | 31.37 | 622 | 1.78 | 0.16 | 34.0 |
| 4/26/2015 21:40:20 | 37.40 | 31.70 | 619 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:40:21 | 37.73 | 32.03 | 619 | 1.77 | 0.16 | 33.8 |
| 4/26/2015 21:40:21 | 38.06 | 32.36 | 622 | 1.78 | 0.16 | 34.0 |
| 4/26/2015 21:40:22 | 38.39 | 32.69 | 626 | 1.77 | 0.16 | 34.2 |
| 4/26/2015 21:40:22 | 38.71 | 33.01 | 619 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:40:23 | 39.04 | 33.34 | 618 | 1.77 | 0.16 | 33.8 |
| 4/26/2015 21:40:23 | 39.37 | 33.67 | 622 | 1.78 | 0.18 | 34.0 |
| 4/26/2015 21:40:24 | 39.70 | 34.00 | 622 | 1.79 | 0.16 | 34.0 |
| 4/26/2015 21:40:24 | 40.03 | 34.33 | 619 | 1.78 | 0.16 | 33.8 |
| 4/26/2015 21:40:25 | 40.35 | 34.65 | 619 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:40:26 | 40.68 | 34.98 | 619 | 1.78 | 0.16 | 33.8 |
| 4/26/2015 21:40:26 | 41.01 | 35.31 | 616 | 1.79 | 0.16 | 33.7 |
| 4/26/2015 21:40:27 | 41.34 | 35.64 | 615 | 1.76 | 0.16 | 33.6 |
| 4/26/2015 21:40:28 | 41.67 | 35.97 | 622 | 1.78 | 0.16 | 34.0 |
| 4/26/2015 21:40:28 | 41.99 | 36.29 | 609 | 1.79 | 0.16 | 33.3 |
| 4/26/2015 21:40:29 | 42.32 | 36.62 | 609 | 1.78 | 0.16 | 33.3 |
| 4/26/2015 21:40:29 | 42.65 | 36.95 | 611 | 1.79 | 0.16 | 33.4 |
| 4/26/2015 21:40:30 | 42.98 | 37.28 | 618 | 1.78 | 0.16 | 33.8 |
| 4/26/2015 21:40:31 | 43.31 | 37.61 | 611 | 1.81 | 0.16 | 33.4 |
| 4/26/2015 21:40:31 | 43.64 | 37.94 | 618 | 1.78 | 0.16 | 33.8 |
| 4/26/2015 21:40:32 | 43.96 | 38.26 | 619 | 1.79 | 0.16 | 33.9 |
| 4/26/2015 21:40:32 | 44.29 | 38.59 | 612 | 1.78 | 0.16 | 33.5 |
| 4/26/2015 21:40:33 | 44.62 | 38.92 | 613 | 1.79 | 0.16 | 33.5 |
| 4/26/2015 21:40:33 | 44.95 | 39.25 | 616 | 1.80 | 0.16 | 33.7 |
| 4/26/2015 21:40:34 | 45.28 | 39.58 | 623 | 1.83 | 0.16 | 34.1 |
| 4/26/2015 21:40:34 | 45.60 | 39.90 | 613 | 1.79 | 0.16 | 33.5 |
| 4/26/2015 21:40:35 | 45.93 | 40.23 | 603 | 1.77 | 0.16 | 33.0 |
| 4/26/2015 21:40:36 | 46.26 | 40.56 | 606 | 1.80 | 0.16 | 33.1 |
| 4/26/2015 21:40:36 | 46.59 | 40.89 | 606 | 1.79 | 0.16 | 33.1 |
| 4/26/2015 21:40:37 | 46.92 | 41.22 | 609 | 1.76 | 0.16 | 33.3 |
| 4/26/2015 21:40:37 | 47.24 | 41.54 | 605 | 1.79 | 0.16 | 33.1 |
| 4/26/2015 21:40:38 | 47.57 | 41.87 | 612 | 1.77 | 0.16 | 33.4 |
| 4/26/2015 21:40:39 | 47.90 | 42.20 | 622 | 1.79 | 0.11 | 34.0 |
| 4/26/2015 21:40:39 | 48.23 | 42.53 | 618 | 1.78 | 0.17 | 33.8 |
| 4/26/2015 21:40:40 | 48.56 | 42.86 | 616 | 1.70 | 0.16 | 33.7 |
| 4/26/2015 21:40:41 | 48.88 | 43.18 | 599 | 1.81 | 0.16 | 32.8 |
| 4/26/2015 21:40:41 | 49.21 | 43.51 | 599 | 1.79 | 0.16 | 32.8 |
| 4/26/2015 21:40:42 | 49.54 | 43.84 | 607 | 1.78 | 0.16 | 33.2 |
| 4/26/2015 21:40:42 | 49.87 | 44.17 | 606 | 1.76 | 0.16 | 33.1 |
| 4/26/2015 21:40:43 | 50.20 | 44.50 | 606 | 1.78 | 0.16 | 33.2 |
| 4/26/2015 21:40:43 | 50.53 | 44.83 | 613 | 1.79 | 0.16 | 33.5 |
| 4/26/2015 21:40:44 | 50.85 | 45.15 | 620 | 1.79 | 0.16 | 33.9 |
| 4/26/2015 21:40:44 | 51.18 | 45.48 | 616 | 1.80 | 0.16 | 33.7 |
| 4/26/2015 21:40:59 | 51.51 | 45.81 | 20 | 1.77 | 1.16 | 1.1 |
| 4/26/2015 21:41:05 | 51.84 | 46.14 | 61 | 1.77 | 1.15 | 3.3 |
| 4/26/2015 21:41:10 | 52.17 | 46.47 | 78 | 1.78 | 1.35 | 4.3 |
| 4/26/2015 21:41:12 | 52.49 | 46.79 | 124 | 1.74 | 1.16 | 6.8 |
| 4/26/2015 21:41:15 | 52.82 | 47.12 | 153 | 1.78 | 1.24 | 8.4 |
| 4/26/2015 21:41:19 | 53.15 | 47.45 | 64 | 1.77 | 1.12 | 3.5 |
| 4/26/2015 21:41:25 | 53.48 | 47.78 | 61 | 1.78 | 1.24 | 3.3 |
| 4/26/2015 21:41:29 | 53.81 | 48.11 | 84 | 1.76 | 1.16 | 4.6 |
| 4/26/2015 21:41:33 | 54.13 | 48.43 | 124 | 1.78 | 1.18 | 6.8 |
| 4/26/2015 21:41:38 | 54.46 | 48.76 | 55 | 1.80 | 1.17 | 3.0 |
| 4/26/2015 21:41:49 | 54.79 | 49.09 | 32 | 1.79 | 1.15 | 1.7 |
| 4/26/2015 21:41:59 | 55.12 | 49.42 | 37 | 1.77 | 1.12 | 2.0 |
| 4/26/2015 21:42:10 | 55.45 | 49.75 | 29 | 1.80 | 1.13 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 21:42:16 | 55.59 | 49.89 | 26 | 1.79 | 1.15 | 1.4 | |

## H173 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:38:47

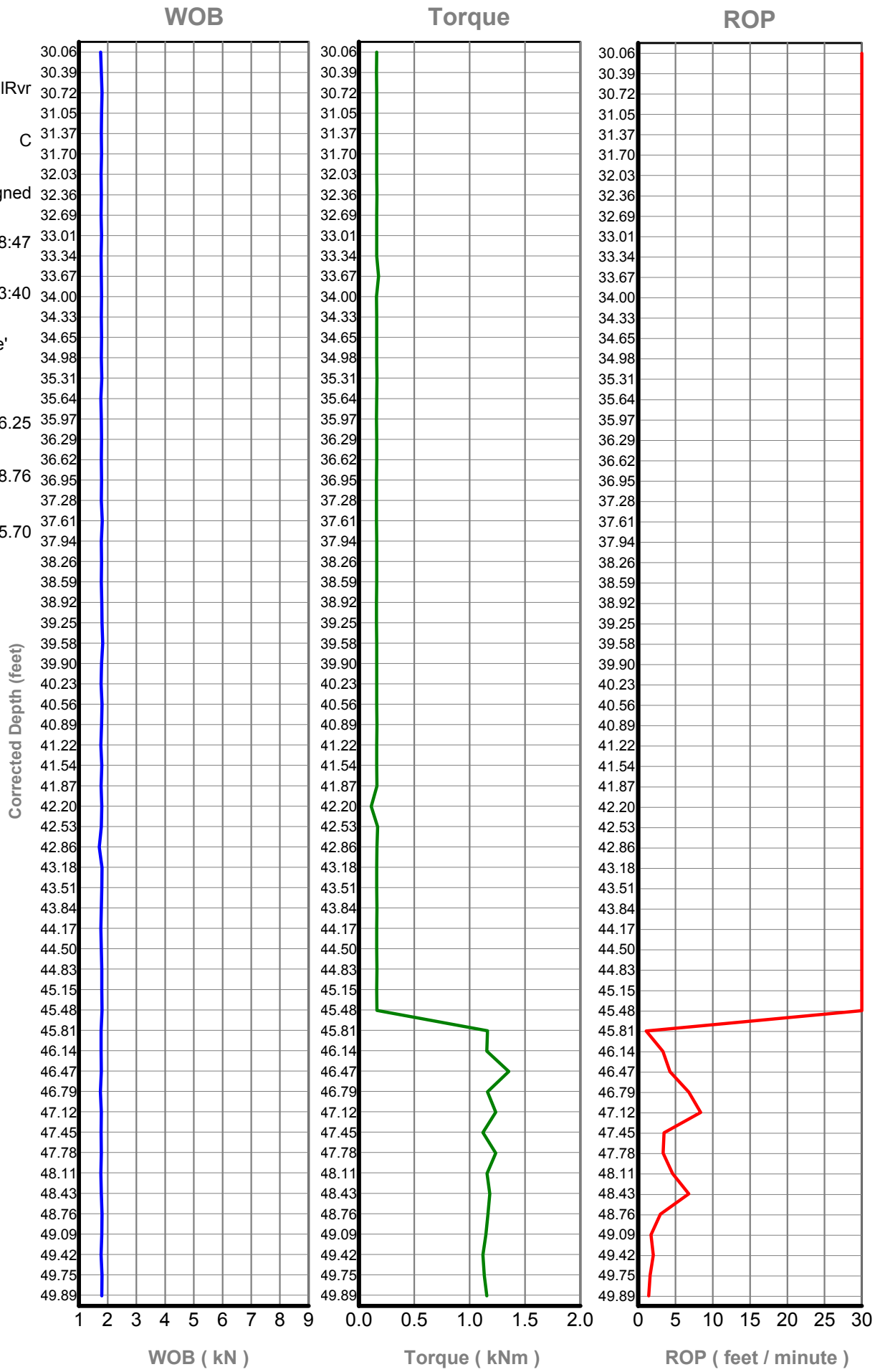
**End Date:**
4/26/2015 21:43:40

**Operator Note:**
'5.7 5.8 c Auto Complete'

**Northing:**
365,826.25

**Easting:**
249,758.76

**Tide (feet):**
5.70



## Hole: H174 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:35:01 | 36.09 | 30.29 | 635 | 1.79 | 0.16 | 34.7 |
| 4/26/2015 21:35:01 | 36.42 | 30.62 | 626 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 21:35:02 | 36.75 | 30.95 | 630 | 1.76 | 0.16 | 34.5 |
| 4/26/2015 21:35:02 | 37.07 | 31.27 | 627 | 1.84 | 0.16 | 34.3 |
| 4/26/2015 21:35:03 | 37.40 | 31.60 | 627 | 1.77 | 0.16 | 34.3 |
| 4/26/2015 21:35:03 | 37.73 | 31.93 | 626 | 1.81 | 0.16 | 34.3 |
| 4/26/2015 21:35:04 | 38.06 | 32.26 | 630 | 1.79 | 0.16 | 34.5 |
| 4/26/2015 21:35:04 | 38.39 | 32.59 | 627 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 21:35:06 | 38.71 | 32.91 | 623 | 1.77 | 0.16 | 34.1 |
| 4/26/2015 21:35:06 | 39.04 | 33.24 | 624 | 1.77 | 0.16 | 34.1 |
| 4/26/2015 21:35:07 | 39.37 | 33.57 | 625 | 1.76 | 0.16 | 34.2 |
| 4/26/2015 21:35:07 | 39.70 | 33.90 | 617 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:35:08 | 40.03 | 34.23 | 618 | 1.80 | 0.16 | 33.8 |
| 4/26/2015 21:35:08 | 40.35 | 34.55 | 628 | 1.80 | 0.16 | 34.4 |
| 4/26/2015 21:35:09 | 40.68 | 34.88 | 618 | 1.78 | 0.16 | 33.8 |
| 4/26/2015 21:35:09 | 41.01 | 35.21 | 614 | 1.77 | 0.16 | 33.6 |
| 4/26/2015 21:35:10 | 41.34 | 35.54 | 614 | 1.79 | 0.16 | 33.6 |
| 4/26/2015 21:35:10 | 41.67 | 35.87 | 627 | 1.74 | 0.16 | 34.3 |
| 4/26/2015 21:35:11 | 41.99 | 36.19 | 607 | 1.77 | 0.16 | 33.2 |
| 4/26/2015 21:35:12 | 42.32 | 36.52 | 607 | 1.79 | 0.16 | 33.2 |
| 4/26/2015 21:35:12 | 42.65 | 36.85 | 615 | 1.74 | 0.16 | 33.6 |
| 4/26/2015 21:35:13 | 42.98 | 37.18 | 615 | 1.77 | 0.16 | 33.6 |
| 4/26/2015 21:35:13 | 43.31 | 37.51 | 627 | 1.80 | 0.16 | 34.3 |
| 4/26/2015 21:35:14 | 43.64 | 37.84 | 618 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:35:14 | 43.96 | 38.16 | 615 | 1.76 | 0.16 | 33.6 |
| 4/26/2015 21:35:15 | 44.29 | 38.49 | 631 | 1.75 | 0.16 | 34.5 |
| 4/26/2015 21:35:16 | 44.62 | 38.82 | 630 | 1.79 | 0.16 | 34.4 |
| 4/26/2015 21:35:16 | 44.95 | 39.15 | 614 | 1.81 | 0.16 | 33.6 |
| 4/26/2015 21:35:17 | 45.28 | 39.48 | 625 | 1.76 | 0.16 | 34.2 |
| 4/26/2015 21:35:18 | 45.60 | 39.80 | 619 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:35:18 | 45.93 | 40.13 | 609 | 1.77 | 0.16 | 33.3 |
| 4/26/2015 21:35:19 | 46.26 | 40.46 | 620 | 1.78 | 0.16 | 33.9 |
| 4/26/2015 21:35:19 | 46.59 | 40.79 | 609 | 1.76 | 0.16 | 33.3 |
| 4/26/2015 21:35:20 | 46.92 | 41.12 | 609 | 1.79 | 0.16 | 33.3 |
| 4/26/2015 21:35:20 | 47.24 | 41.44 | 615 | 1.77 | 0.16 | 33.6 |
| 4/26/2015 21:35:21 | 47.57 | 41.77 | 628 | 1.79 | 0.16 | 34.4 |
| 4/26/2015 21:35:21 | 47.90 | 42.10 | 628 | 1.77 | 0.16 | 34.4 |
| 4/26/2015 21:35:22 | 48.23 | 42.43 | 627 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 21:35:23 | 48.56 | 42.76 | 627 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 21:35:23 | 48.88 | 43.08 | 627 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 21:35:24 | 49.21 | 43.41 | 621 | 1.78 | 0.16 | 34.0 |
| 4/26/2015 21:35:24 | 49.54 | 43.74 | 615 | 1.76 | 0.16 | 33.6 |
| 4/26/2015 21:35:25 | 49.87 | 44.07 | 619 | 1.79 | 0.16 | 33.8 |
| 4/26/2015 21:35:25 | 50.20 | 44.40 | 619 | 1.80 | 0.16 | 33.8 |
| 4/26/2015 21:35:26 | 50.53 | 44.73 | 616 | 1.77 | 0.16 | 33.7 |
| 4/26/2015 21:35:27 | 50.85 | 45.05 | 619 | 1.77 | 0.16 | 33.8 |
| 4/26/2015 21:35:28 | 51.18 | 45.38 | 616 | 1.76 | 0.16 | 33.7 |
| 4/26/2015 21:35:28 | 51.51 | 45.71 | 616 | 1.77 | 0.16 | 33.7 |
| 4/26/2015 21:35:29 | 51.84 | 46.04 | 600 | 1.70 | 0.16 | 32.8 |
| 4/26/2015 21:35:41 | 52.17 | 46.37 | 107 | 1.75 | 1.11 | 5.9 |
| 4/26/2015 21:35:42 | 52.49 | 46.69 | 244 | 1.74 | 1.35 | 13.3 |
| 4/26/2015 21:36:00 | 52.82 | 47.02 | 9 | 1.77 | 1.07 | 0.5 |
| 4/26/2015 21:36:13 | 53.15 | 47.35 | 28 | 1.79 | 1.18 | 1.5 |
| 4/26/2015 21:36:25 | 53.48 | 47.68 | 32 | 1.79 | 1.09 | 1.7 |
| 4/26/2015 21:36:37 | 53.78 | 47.98 | 26 | 1.81 | 1.10 | 1.4 |

## H174 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:32:26

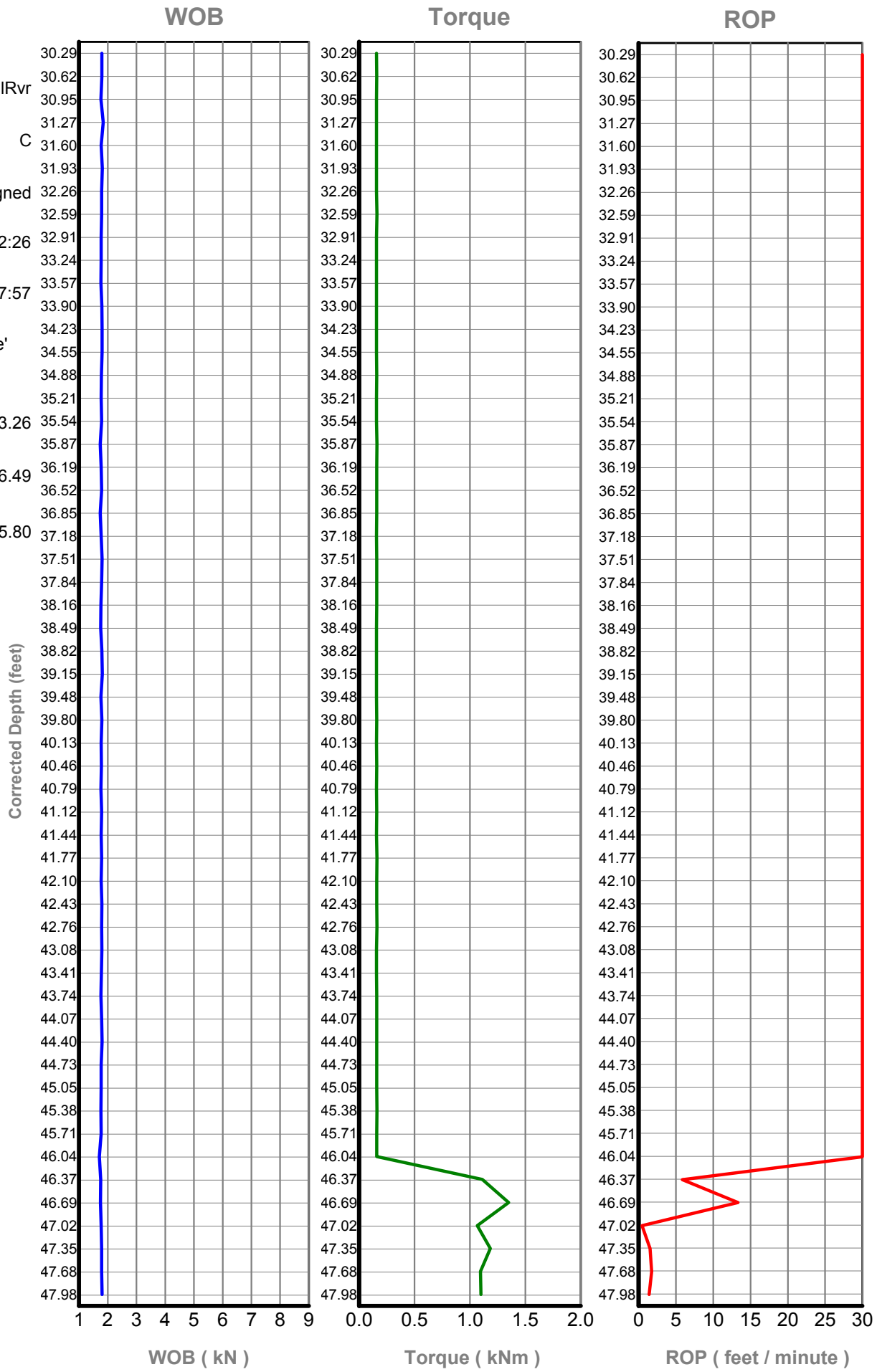
**End Date:**
4/26/2015 21:37:57

**Operator Note:**
'5.8 5.9 c Auto Complete'

**Northing:**
365,873.26

**Easting:**
249,816.49

**Tide (feet):**
5.80



## Hole: H175 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:34:02 | 30.84 | 30.04 | 702 | 0.39 | 0.32 | 38.4 |
| 4/26/2015 14:34:02 | 31.17 | 30.37 | 890 | 0.30 | 0.31 | 48.7 |
| 4/26/2015 14:34:03 | 31.50 | 30.70 | 890 | 0.30 | 0.31 | 48.7 |
| 4/26/2015 14:34:03 | 31.82 | 31.02 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 14:34:03 | 32.15 | 31.35 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 14:34:04 | 32.48 | 31.68 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 14:34:04 | 32.81 | 32.01 | 1,087 | 0.31 | 0.31 | 59.5 |
| 4/26/2015 14:34:04 | 33.14 | 32.34 | 1,087 | 0.31 | 0.31 | 59.5 |
| 4/26/2015 14:34:04 | 33.46 | 32.66 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 14:34:05 | 33.79 | 32.99 | 1,091 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:34:05 | 34.12 | 33.32 | 1,091 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:34:06 | 34.45 | 33.65 | 1,109 | 0.33 | 0.31 | 60.6 |
| 4/26/2015 14:34:06 | 34.78 | 33.98 | 1,092 | 0.31 | 0.30 | 59.7 |
| 4/26/2015 14:34:07 | 35.11 | 34.31 | 1,092 | 0.31 | 0.30 | 59.7 |
| 4/26/2015 14:34:07 | 35.43 | 34.63 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:34:07 | 35.76 | 34.96 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 14:34:07 | 36.09 | 35.29 | 1,102 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 14:34:08 | 36.42 | 35.62 | 1,097 | 0.31 | 0.31 | 60.0 |
| 4/26/2015 14:34:08 | 36.75 | 35.95 | 1,097 | 0.31 | 0.31 | 60.0 |
| 4/26/2015 14:34:08 | 37.07 | 36.27 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:34:09 | 37.40 | 36.60 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:34:09 | 37.73 | 36.93 | 1,091 | 0.30 | 0.30 | 59.7 |
| 4/26/2015 14:34:09 | 38.06 | 37.26 | 1,111 | 0.29 | 0.30 | 60.8 |
| 4/26/2015 14:34:10 | 38.39 | 37.59 | 1,111 | 0.29 | 0.30 | 60.8 |
| 4/26/2015 14:34:10 | 38.71 | 37.91 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:34:10 | 39.04 | 38.24 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:34:11 | 39.37 | 38.57 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:34:11 | 39.70 | 38.90 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 14:34:11 | 40.03 | 39.23 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 14:34:11 | 40.35 | 39.55 | 1,110 | 0.31 | 0.31 | 60.7 |
| 4/26/2015 14:34:12 | 40.68 | 39.88 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:34:12 | 41.01 | 40.21 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:34:12 | 41.34 | 40.54 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:34:13 | 41.67 | 40.87 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:34:13 | 41.99 | 41.19 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:34:13 | 42.32 | 41.52 | 1,113 | 0.29 | 0.30 | 60.9 |
| 4/26/2015 14:34:14 | 42.65 | 41.85 | 1,113 | 0.29 | 0.30 | 60.9 |
| 4/26/2015 14:34:14 | 42.98 | 42.18 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 14:34:14 | 43.31 | 42.51 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:34:15 | 43.64 | 42.84 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:34:15 | 43.96 | 43.16 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:34:15 | 44.29 | 43.49 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:34:15 | 44.62 | 43.82 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 14:34:16 | 44.95 | 44.15 | 1,107 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:34:17 | 45.28 | 44.48 | 1,107 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 14:34:17 | 45.60 | 44.80 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/26/2015 14:34:17 | 45.93 | 45.13 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 14:34:18 | 46.26 | 45.46 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 14:34:18 | 46.59 | 45.79 | 1,074 | 0.28 | 0.37 | 58.7 |
| 4/26/2015 14:34:31 | 46.92 | 46.12 | 49 | 3.67 | 0.40 | 2.7 |
| 4/26/2015 14:34:36 | 47.24 | 46.44 | 52 | 4.41 | 0.41 | 2.8 |
| 4/26/2015 14:34:43 | 47.57 | 46.77 | 52 | 3.07 | 0.41 | 2.8 |
| 4/26/2015 14:34:50 | 47.90 | 47.10 | 58 | 3.24 | 0.39 | 3.2 |
| 4/26/2015 14:34:52 | 48.00 | 47.20 | 58 | 3.15 | 0.40 | 3.2 |

## H175 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:32:26

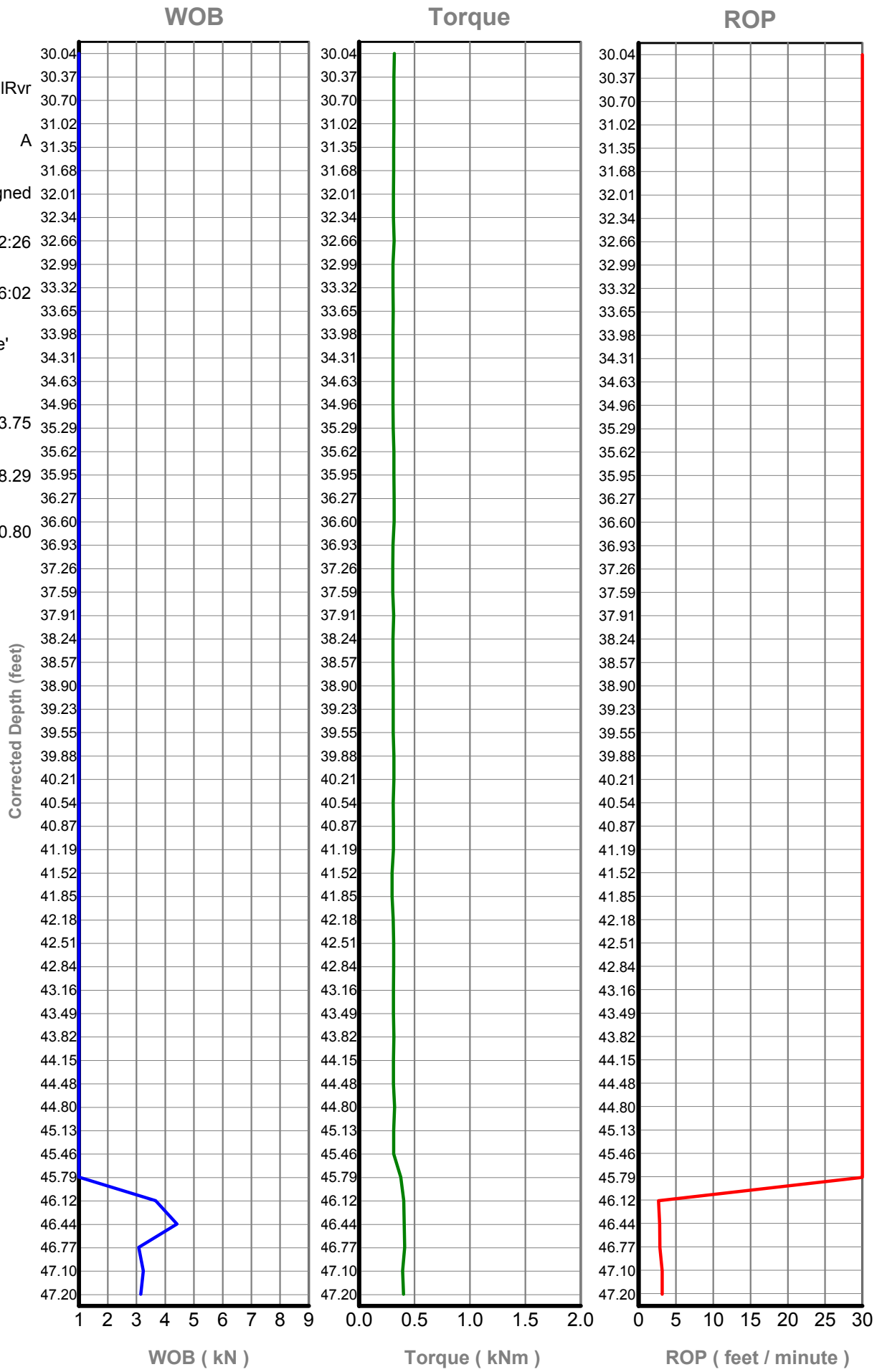
**End Date:**
4/26/2015 14:36:02

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
365,943.75

**Easting:**
249,898.29

**Tide (feet):**
0.80



## Hole: H176 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:30:11 | 30.84 | 30.04 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 14:30:11 | 31.17 | 30.37 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 14:30:12 | 31.50 | 30.70 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 14:30:12 | 31.82 | 31.02 | 1,111 | 0.29 | 0.31 | 60.8 |
| 4/26/2015 14:30:12 | 32.15 | 31.35 | 1,111 | 0.29 | 0.31 | 60.8 |
| 4/26/2015 14:30:12 | 32.48 | 31.68 | 1,111 | 0.29 | 0.31 | 60.8 |
| 4/26/2015 14:30:13 | 32.81 | 32.01 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/26/2015 14:30:13 | 33.14 | 32.34 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/26/2015 14:30:13 | 33.46 | 32.66 | 1,106 | 0.29 | 0.30 | 60.5 |
| 4/26/2015 14:30:14 | 33.79 | 32.99 | 1,100 | 0.28 | 0.32 | 60.1 |
| 4/26/2015 14:30:14 | 34.12 | 33.32 | 1,100 | 0.28 | 0.32 | 60.1 |
| 4/26/2015 14:30:14 | 34.45 | 33.65 | 1,127 | 0.28 | 0.30 | 61.7 |
| 4/26/2015 14:30:15 | 34.78 | 33.98 | 1,127 | 0.28 | 0.30 | 61.7 |
| 4/26/2015 14:30:15 | 35.11 | 34.31 | 1,124 | 0.29 | 0.31 | 61.4 |
| 4/26/2015 14:30:15 | 35.43 | 34.63 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:16 | 35.76 | 34.96 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:16 | 36.09 | 35.29 | 1,103 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 14:30:16 | 36.42 | 35.62 | 1,103 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 14:30:16 | 36.75 | 35.95 | 1,110 | 0.31 | 0.31 | 60.7 |
| 4/26/2015 14:30:17 | 37.07 | 36.27 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 14:30:18 | 37.40 | 36.60 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 14:30:18 | 37.73 | 36.93 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:30:18 | 38.06 | 37.26 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:19 | 38.39 | 37.59 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:19 | 38.71 | 37.91 | 1,107 | 0.29 | 0.32 | 60.5 |
| 4/26/2015 14:30:19 | 39.04 | 38.24 | 1,107 | 0.29 | 0.32 | 60.5 |
| 4/26/2015 14:30:19 | 39.37 | 38.57 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:30:20 | 39.70 | 38.90 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:30:20 | 40.03 | 39.23 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:30:20 | 40.35 | 39.55 | 1,100 | 0.29 | 0.32 | 60.2 |
| 4/26/2015 14:30:21 | 40.68 | 39.88 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:21 | 41.01 | 40.21 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 14:30:21 | 41.34 | 40.54 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:30:22 | 41.67 | 40.87 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:30:22 | 41.99 | 41.19 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 14:30:22 | 42.32 | 41.52 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 14:30:23 | 42.65 | 41.85 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 14:30:23 | 42.98 | 42.18 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 14:30:23 | 43.31 | 42.51 | 1,098 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 14:30:24 | 43.64 | 42.84 | 1,098 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 14:30:24 | 43.96 | 43.16 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:30:24 | 44.29 | 43.49 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 14:30:24 | 44.62 | 43.82 | 1,092 | 0.29 | 0.32 | 59.7 |
| 4/26/2015 14:30:25 | 44.95 | 44.15 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:30:25 | 45.28 | 44.48 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 14:30:25 | 45.60 | 44.80 | 1,102 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 14:30:26 | 45.93 | 45.13 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 14:30:26 | 46.26 | 45.46 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 14:30:26 | 46.59 | 45.79 | 1,093 | 0.27 | 0.34 | 59.8 |
| 4/26/2015 14:30:27 | 46.92 | 46.12 | 1,041 | 0.26 | 0.39 | 56.9 |
| 4/26/2015 14:30:36 | 47.24 | 46.44 | 35 | 2.14 | 0.33 | 1.9 |
| 4/26/2015 14:30:37 | 47.57 | 46.77 | 229 | 3.50 | 0.38 | 12.5 |
| 4/26/2015 14:30:50 | 47.90 | 47.10 | 44 | 3.23 | 0.40 | 2.4 |
| 4/26/2015 14:30:55 | 48.23 | 47.43 | 74 | 3.59 | 0.38 | 4.0 |
| 4/26/2015 14:31:03 | 48.56 | 47.76 | 38 | 2.74 | 0.40 | 2.1 |
| 4/26/2015 14:31:11 | 48.88 | 48.08 | 53 | 2.92 | 0.40 | 2.9 |
| 4/26/2015 14:31:19 | 49.21 | 48.41 | 37 | 2.86 | 0.39 | 2.0 |

## H176 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:28:40

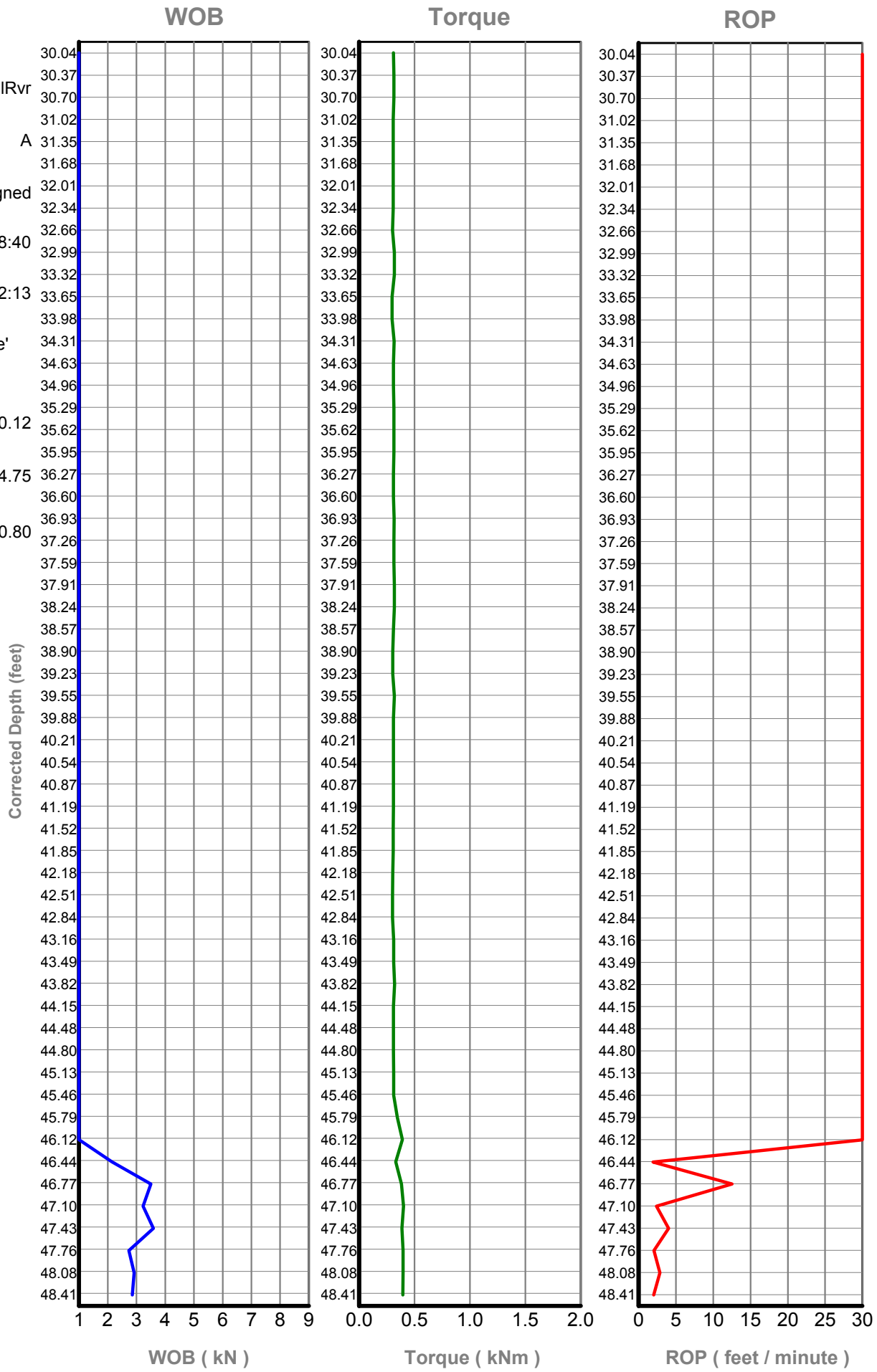
**End Date:**
4/26/2015 14:32:13

**Operator Note:**
'0.8 0.8 b Auto Complete'

**Northing:**
365,980.12

**Easting:**
249,944.75

**Tide (feet):**
0.80



## Hole: H177 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 14:28:48 | 30.84 | 30.04 | 662 | 1.76 | 0.28 | 36.2 |
| 4/26/2015 14:28:48 | 31.17 | 30.37 | 662 | 1.75 | 0.28 | 36.2 |
| 4/26/2015 14:28:49 | 31.50 | 30.70 | 658 | 1.76 | 0.28 | 36.0 |
| 4/26/2015 14:28:49 | 31.82 | 31.02 | 665 | 1.76 | 0.28 | 36.4 |
| 4/26/2015 14:28:50 | 32.15 | 31.35 | 665 | 1.76 | 0.28 | 36.4 |
| 4/26/2015 14:28:50 | 32.48 | 31.68 | 662 | 1.76 | 0.28 | 36.2 |
| 4/26/2015 14:28:51 | 32.81 | 32.01 | 662 | 1.75 | 0.28 | 36.2 |
| 4/26/2015 14:28:51 | 33.14 | 32.34 | 665 | 1.74 | 0.28 | 36.4 |
| 4/26/2015 14:28:52 | 33.46 | 32.66 | 659 | 1.74 | 0.28 | 36.0 |
| 4/26/2015 14:28:52 | 33.79 | 32.99 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 14:28:53 | 34.12 | 33.32 | 655 | 1.75 | 0.28 | 35.8 |
| 4/26/2015 14:28:54 | 34.45 | 33.65 | 659 | 1.74 | 0.28 | 36.0 |
| 4/26/2015 14:28:54 | 34.78 | 33.98 | 656 | 1.75 | 0.28 | 35.9 |
| 4/26/2015 14:28:55 | 35.11 | 34.31 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 14:28:55 | 35.43 | 34.63 | 656 | 1.74 | 0.27 | 35.9 |
| 4/26/2015 14:28:56 | 35.76 | 34.96 | 660 | 1.79 | 0.28 | 36.1 |
| 4/26/2015 14:28:56 | 36.09 | 35.29 | 637 | 1.75 | 0.28 | 34.8 |
| 4/26/2015 14:28:57 | 36.42 | 35.62 | 637 | 1.75 | 0.28 | 34.8 |
| 4/26/2015 14:28:57 | 36.75 | 35.95 | 649 | 1.74 | 0.28 | 35.5 |
| 4/26/2015 14:28:58 | 37.07 | 36.27 | 651 | 1.72 | 0.28 | 35.6 |
| 4/26/2015 14:28:58 | 37.40 | 36.60 | 652 | 1.77 | 0.28 | 35.6 |
| 4/26/2015 14:28:59 | 37.73 | 36.93 | 668 | 1.74 | 0.28 | 36.5 |
| 4/26/2015 14:29:00 | 38.06 | 37.26 | 660 | 1.74 | 0.28 | 36.1 |
| 4/26/2015 14:29:00 | 38.39 | 37.59 | 653 | 1.75 | 0.28 | 35.7 |
| 4/26/2015 14:29:01 | 38.71 | 37.91 | 657 | 1.74 | 0.28 | 35.9 |
| 4/26/2015 14:29:01 | 39.04 | 38.24 | 650 | 1.74 | 0.28 | 35.6 |
| 4/26/2015 14:29:02 | 39.37 | 38.57 | 653 | 1.76 | 0.27 | 35.7 |
| 4/26/2015 14:29:02 | 39.70 | 38.90 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 14:29:03 | 40.03 | 39.23 | 653 | 1.75 | 0.28 | 35.7 |
| 4/26/2015 14:29:03 | 40.35 | 39.55 | 649 | 1.74 | 0.28 | 35.5 |
| 4/26/2015 14:29:04 | 40.68 | 39.88 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 14:29:05 | 41.01 | 40.21 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 14:29:05 | 41.34 | 40.54 | 647 | 1.76 | 0.28 | 35.4 |
| 4/26/2015 14:29:06 | 41.67 | 40.87 | 650 | 1.76 | 0.28 | 35.6 |
| 4/26/2015 14:29:06 | 41.99 | 41.19 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 14:29:07 | 42.32 | 41.52 | 650 | 1.68 | 0.28 | 35.6 |
| 4/26/2015 14:29:07 | 42.65 | 41.85 | 648 | 1.74 | 0.28 | 35.4 |
| 4/26/2015 14:29:08 | 42.98 | 42.18 | 650 | 1.77 | 0.28 | 35.6 |
| 4/26/2015 14:29:08 | 43.31 | 42.51 | 650 | 1.74 | 0.28 | 35.6 |
| 4/26/2015 14:29:09 | 43.64 | 42.84 | 648 | 1.77 | 0.28 | 35.4 |
| 4/26/2015 14:29:10 | 43.96 | 43.16 | 648 | 1.73 | 0.28 | 35.4 |
| 4/26/2015 14:30:12 | 44.29 | 43.49 | 40 | 1.77 | 1.06 | 2.2 |
| 4/26/2015 14:30:19 | 44.62 | 43.82 | 55 | 1.77 | 1.15 | 3.0 |
| 4/26/2015 14:30:28 | 44.95 | 44.15 | 35 | 1.77 | 0.99 | 1.9 |
| 4/26/2015 14:30:36 | 45.28 | 44.48 | 38 | 1.78 | 1.00 | 2.1 |
| 4/26/2015 14:30:47 | 45.60 | 44.80 | 33 | 1.78 | 1.01 | 1.8 |
| 4/26/2015 14:30:56 | 45.93 | 45.13 | 44 | 1.78 | 0.97 | 2.4 |

## H177 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 14:27:27

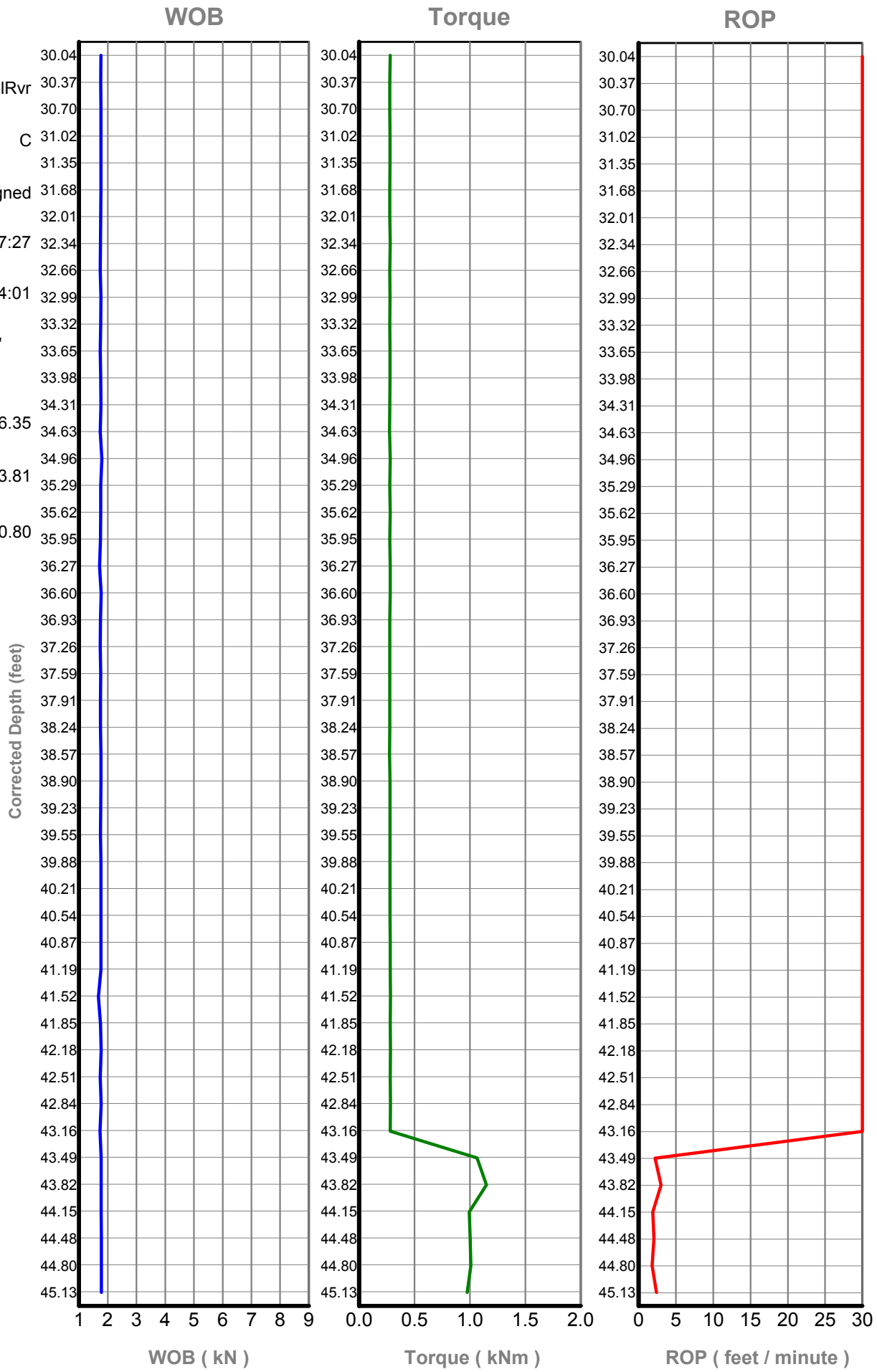
**End Date:**
4/26/2015 14:34:01

**Operator Note:**
'0.8 .8 C Auto Complete'

**Northing:**
366,026.35

**Easting:**
250,003.81

**Tide (feet):**
0.80



## Hole: H178 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:46:54 | 32.81 | 30.21 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 11:46:55 | 33.14 | 30.54 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 11:46:55 | 33.46 | 30.86 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:46:55 | 33.79 | 31.19 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 11:46:56 | 34.12 | 31.52 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 11:46:56 | 34.45 | 31.85 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:46:56 | 34.78 | 32.18 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:46:56 | 35.11 | 32.51 | 1,038 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 11:46:57 | 35.43 | 32.83 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:46:57 | 35.76 | 33.16 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:46:57 | 36.09 | 33.49 | 1,038 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 11:46:58 | 36.42 | 33.82 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:46:58 | 36.75 | 34.15 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:46:58 | 37.07 | 34.47 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:46:59 | 37.40 | 34.80 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 11:46:59 | 37.73 | 35.13 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:47:00 | 38.06 | 35.46 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:47:00 | 38.39 | 35.79 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:47:01 | 38.71 | 36.11 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:47:01 | 39.04 | 36.44 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:47:01 | 39.37 | 36.77 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:47:02 | 39.70 | 37.10 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:47:02 | 40.03 | 37.43 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:47:02 | 40.35 | 37.75 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:47:03 | 40.68 | 38.08 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:47:03 | 41.01 | 38.41 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 11:47:03 | 41.34 | 38.74 | 1,035 | 0.30 | 0.32 | 56.6 |
| 4/26/2015 11:47:04 | 41.67 | 39.07 | 1,035 | 0.30 | 0.32 | 56.6 |
| 4/26/2015 11:47:04 | 41.99 | 39.39 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:04 | 42.32 | 39.72 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:05 | 42.65 | 40.05 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:05 | 42.98 | 40.38 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:05 | 43.31 | 40.71 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:06 | 43.64 | 41.04 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:06 | 43.96 | 41.36 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:47:06 | 44.29 | 41.69 | 1,021 | 0.36 | 0.32 | 55.8 |
| 4/26/2015 11:47:07 | 44.62 | 42.02 | 1,036 | 0.41 | 0.32 | 56.6 |
| 4/26/2015 11:47:07 | 44.95 | 42.35 | 1,036 | 0.41 | 0.32 | 56.6 |
| 4/26/2015 11:47:07 | 45.28 | 42.68 | 1,018 | 0.43 | 0.32 | 55.6 |
| 4/26/2015 11:47:08 | 45.60 | 43.00 | 1,009 | 0.41 | 0.32 | 55.2 |
| 4/26/2015 11:47:08 | 45.93 | 43.33 | 1,009 | 0.41 | 0.32 | 55.2 |
| 4/26/2015 11:47:08 | 46.26 | 43.66 | 997 | 0.38 | 0.33 | 54.5 |
| 4/26/2015 11:47:09 | 46.59 | 43.99 | 986 | 0.31 | 0.32 | 53.9 |
| 4/26/2015 11:47:09 | 46.92 | 44.32 | 986 | 0.31 | 0.32 | 53.9 |
| 4/26/2015 11:47:09 | 47.24 | 44.64 | 977 | 0.31 | 0.24 | 53.4 |
| 4/26/2015 11:47:10 | 47.57 | 44.97 | 980 | 0.29 | 0.37 | 53.6 |
| 4/26/2015 11:47:33 | 47.90 | 45.30 | 46 | 3.53 | 0.40 | 2.5 |
| 4/26/2015 11:47:41 | 48.23 | 45.63 | 46 | 3.78 | 0.40 | 2.5 |
| 4/26/2015 11:47:49 | 48.56 | 45.96 | 53 | 3.90 | 0.40 | 2.9 |
| 4/26/2015 11:47:53 | 48.76 | 46.16 | 46 | 2.86 | 0.40 | 2.5 |

## H178 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:44:32

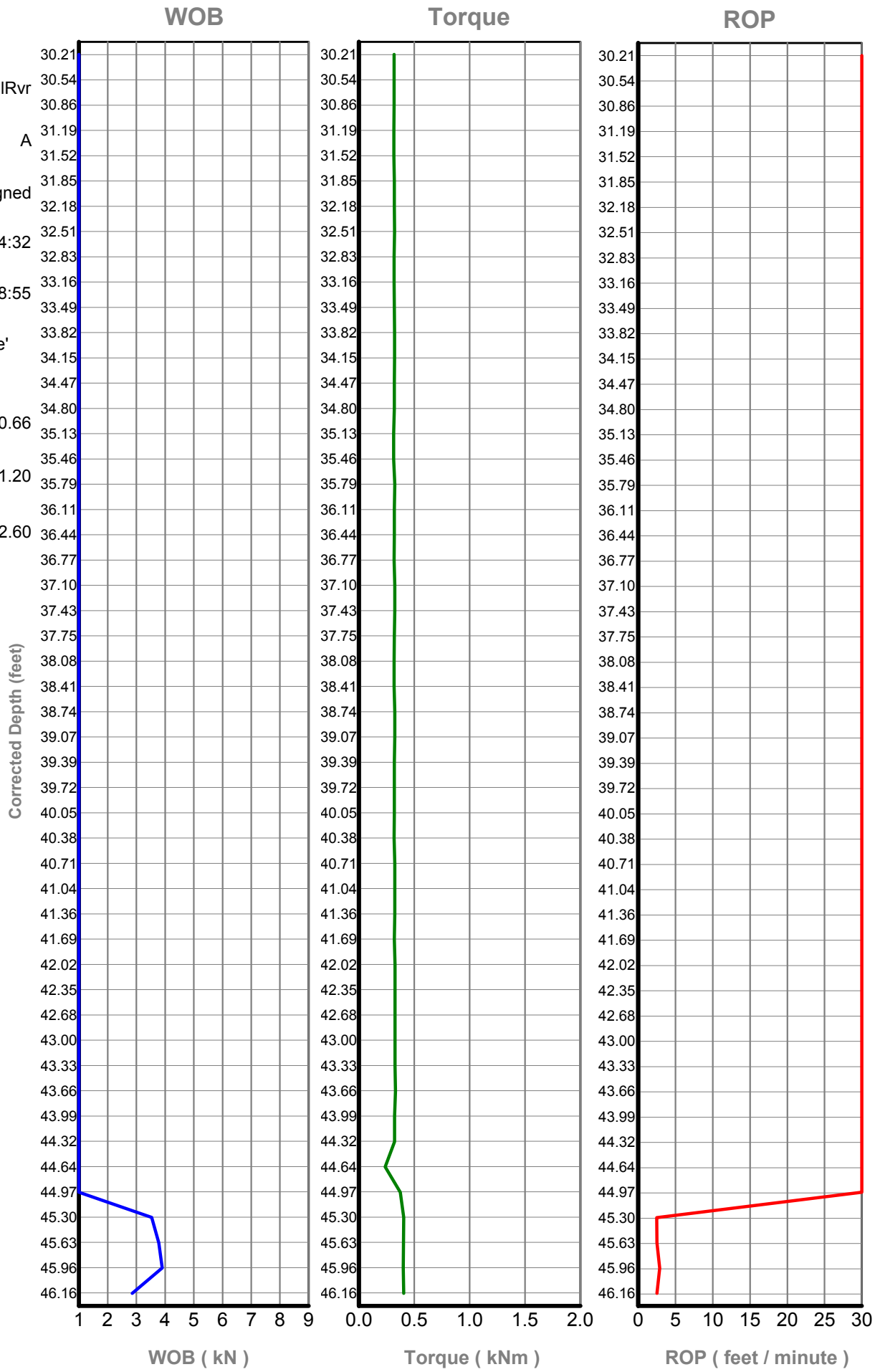
**End Date:**
4/26/2015 11:48:55

**Operator Note:**
'2.6 3.0 b Auto Complete'

**Northing:**
366,070.66

**Easting:**
250,051.20

**Tide (feet):**
2.60



## Hole: H179 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:50:50 | 32.81 | 30.31 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/26/2015 11:50:50 | 33.14 | 30.64 | 1,029 | 0.35 | 0.32 | 56.3 |
| 4/26/2015 11:50:51 | 33.46 | 30.96 | 1,038 | 0.34 | 0.32 | 56.7 |
| 4/26/2015 11:50:51 | 33.79 | 31.29 | 1,038 | 0.34 | 0.32 | 56.7 |
| 4/26/2015 11:50:51 | 34.12 | 31.62 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 11:50:52 | 34.45 | 31.95 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 11:50:52 | 34.78 | 32.28 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 11:50:52 | 35.11 | 32.61 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 11:50:53 | 35.43 | 32.93 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 11:50:53 | 35.76 | 33.26 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 11:50:53 | 36.09 | 33.59 | 1,032 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 11:50:54 | 36.42 | 33.92 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 11:50:54 | 36.75 | 34.25 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 11:50:54 | 37.07 | 34.57 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:50:55 | 37.40 | 34.90 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 11:50:55 | 37.73 | 35.23 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 11:50:55 | 38.06 | 35.56 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 11:50:56 | 38.39 | 35.89 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 11:50:56 | 38.71 | 36.21 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 11:50:56 | 39.04 | 36.54 | 1,035 | 0.31 | 0.33 | 56.6 |
| 4/26/2015 11:50:57 | 39.37 | 36.87 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 11:50:57 | 39.70 | 37.20 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 11:50:57 | 40.03 | 37.53 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 11:50:58 | 40.35 | 37.85 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 11:50:58 | 40.68 | 38.18 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 11:50:58 | 41.01 | 38.51 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 11:50:59 | 41.34 | 38.84 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 11:50:59 | 41.67 | 39.17 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/26/2015 11:51:00 | 41.99 | 39.49 | 1,038 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 11:51:00 | 42.32 | 39.82 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 11:51:01 | 42.65 | 40.15 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 11:51:01 | 42.98 | 40.48 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:01 | 43.31 | 40.81 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:51:02 | 43.64 | 41.14 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:51:02 | 43.96 | 41.46 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 11:51:02 | 44.29 | 41.79 | 1,029 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 11:51:03 | 44.62 | 42.12 | 1,029 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 11:51:03 | 44.95 | 42.45 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:03 | 45.28 | 42.78 | 1,038 | 0.31 | 0.33 | 56.7 |
| 4/26/2015 11:51:04 | 45.60 | 43.10 | 1,038 | 0.31 | 0.33 | 56.7 |
| 4/26/2015 11:51:04 | 45.93 | 43.43 | 1,028 | 0.32 | 0.32 | 56.2 |
| 4/26/2015 11:51:04 | 46.26 | 43.76 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:51:05 | 46.59 | 44.09 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:51:05 | 46.92 | 44.42 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 11:51:05 | 47.24 | 44.74 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:06 | 47.57 | 45.07 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:06 | 47.90 | 45.40 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:51:06 | 48.23 | 45.73 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:07 | 48.56 | 46.06 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:51:07 | 48.88 | 46.38 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/26/2015 11:51:07 | 49.21 | 46.71 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/26/2015 11:51:08 | 49.54 | 47.04 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/26/2015 11:51:12 | 49.87 | 47.37 | 91 | 2.45 | 0.37 | 5.0 |
| 4/26/2015 11:51:14 | 50.20 | 47.70 | 225 | 5.80 | 0.38 | 12.3 |
| 4/26/2015 11:51:16 | 50.53 | 48.03 | 199 | 5.22 | 0.36 | 10.9 |
| 4/26/2015 11:51:19 | 50.85 | 48.35 | 74 | 4.01 | 0.36 | 4.1 |
| 4/26/2015 11:51:21 | 51.18 | 48.68 | 104 | 3.27 | 0.37 | 5.7 |
| 4/26/2015 11:51:22 | 51.51 | 49.01 | 249 | 3.43 | 0.38 | 13.6 |
| 4/26/2015 11:51:26 | 51.84 | 49.34 | 17 | 2.85 | 0.39 | 0.9 |
| 4/26/2015 11:51:28 | 52.17 | 49.67 | 141 | 3.30 | 0.38 | 7.7 |
| 4/26/2015 11:51:36 | 52.49 | 49.99 | 17 | 3.45 | 0.38 | 0.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 11:51:42 | 52.82 | 50.32 | 15 | 4.78 | 0.40 | 0.8 |
| 4/26/2015 | 11:51:45 | 53.15 | 50.65 | 110 | 3.51 | 0.38 | 6.0 |
| 4/26/2015 | 11:51:47 | 53.48 | 50.98 | 194 | 3.22 | 0.39 | 10.6 |
| 4/26/2015 | 11:51:50 | 53.81 | 51.31 | 98 | 3.81 | 0.40 | 5.3 |
| 4/26/2015 | 11:51:54 | 54.13 | 51.63 | 87 | 3.85 | 0.39 | 4.7 |
| 4/26/2015 | 11:51:58 | 54.46 | 51.96 | 92 | 3.88 | 0.40 | 5.1 |
| 4/26/2015 | 11:52:02 | 54.79 | 52.29 | 84 | 3.56 | 0.40 | 4.6 |
| 4/26/2015 | 11:52:07 | 55.12 | 52.62 | 75 | 3.62 | 0.40 | 4.1 |
| 4/26/2015 | 11:52:11 | 55.45 | 52.95 | 95 | 3.58 | 0.40 | 5.2 |
| 4/26/2015 | 11:52:20 | 55.77 | 53.27 | 23 | 3.68 | 0.39 | 1.3 |
| 4/26/2015 | 11:52:22 | 56.10 | 53.60 | 126 | 3.64 | 0.39 | 6.9 |
| 4/26/2015 | 11:52:26 | 56.43 | 53.93 | 124 | 3.83 | 0.39 | 6.8 |
| 4/26/2015 | 11:52:28 | 56.76 | 54.26 | 149 | 3.73 | 0.39 | 8.2 |
| 4/26/2015 | 11:53:08 | 57.09 | 54.59 | 27 | 3.23 | 0.40 | 1.5 |
| 4/26/2015 | 11:53:12 | 57.41 | 54.91 | 93 | 3.44 | 0.40 | 5.1 |
| 4/26/2015 | 11:53:20 | 57.74 | 55.24 | 74 | 3.60 | 0.40 | 4.0 |
| 4/26/2015 | 11:53:22 | 57.91 | 55.41 | 68 | 3.35 | 0.40 | 3.7 |

## H179 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:49:02

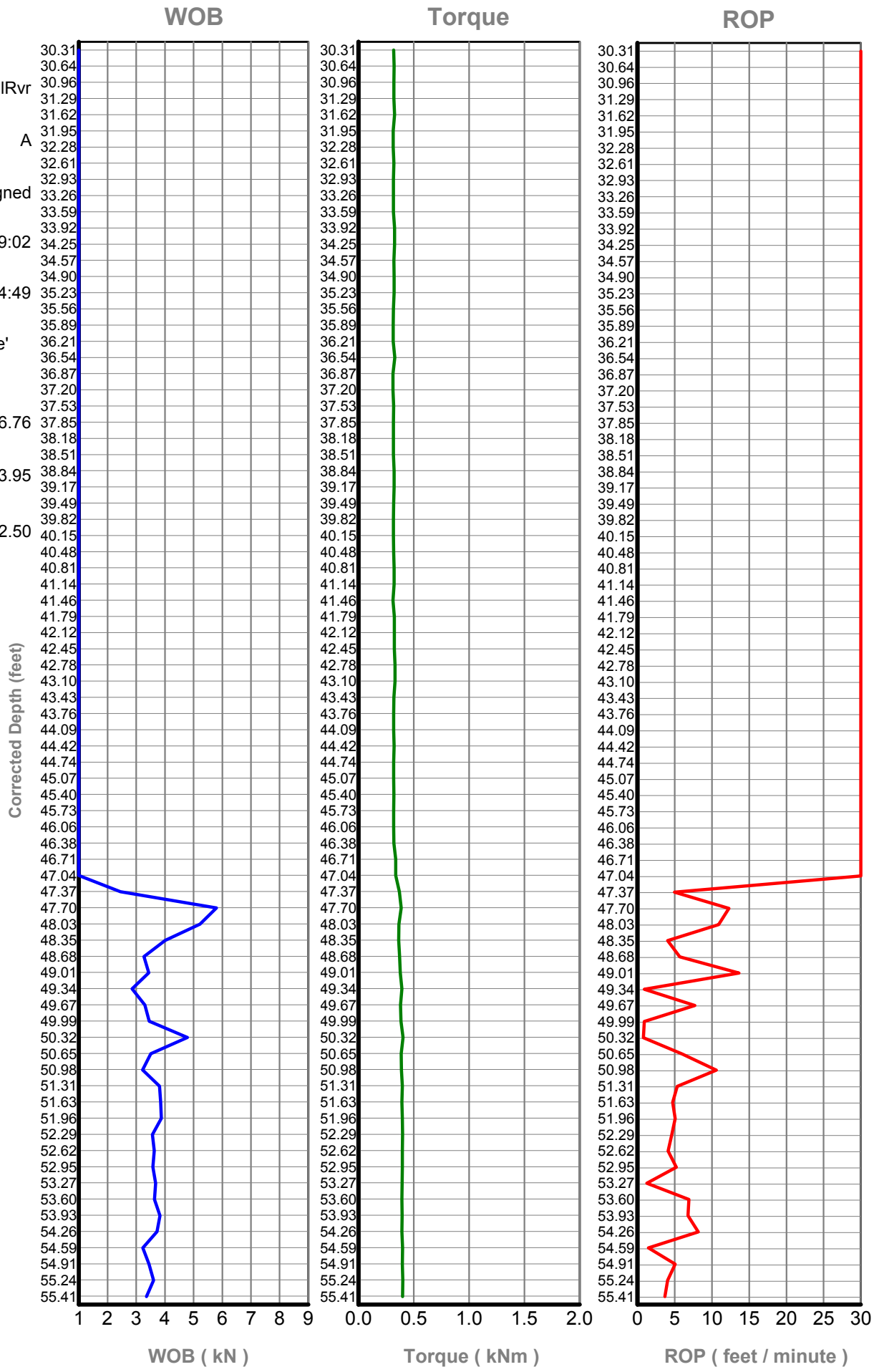
**End Date:**
4/26/2015 11:54:49

**Operator Note:**
'2.5 2.9 b Auto Complete'

**Northing:**
366,116.76

**Easting:**
250,123.95

**Tide (feet):**
2.50



## Hole: H18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:52:22 | 31.82 | 30.22 | 580 | 1.78 | 0.30 | 31.7 |
| 4/26/2015 12:52:23 | 32.15 | 30.55 | 579 | 1.76 | 0.30 | 31.7 |
| 4/26/2015 12:52:24 | 32.48 | 30.88 | 577 | 1.77 | 0.30 | 31.6 |
| 4/26/2015 12:52:25 | 32.81 | 31.21 | 581 | 1.78 | 0.30 | 31.8 |
| 4/26/2015 12:52:25 | 33.14 | 31.54 | 568 | 1.79 | 0.30 | 31.1 |
| 4/26/2015 12:52:26 | 33.46 | 31.86 | 568 | 1.78 | 0.30 | 31.1 |
| 4/26/2015 12:52:26 | 33.79 | 32.19 | 573 | 1.76 | 0.29 | 31.3 |
| 4/26/2015 12:52:27 | 34.12 | 32.52 | 573 | 1.76 | 0.30 | 31.3 |
| 4/26/2015 12:52:28 | 34.45 | 32.85 | 573 | 1.78 | 0.29 | 31.3 |
| 4/26/2015 12:52:28 | 34.78 | 33.18 | 583 | 1.77 | 0.29 | 31.9 |
| 4/26/2015 12:52:29 | 35.11 | 33.51 | 576 | 1.77 | 0.29 | 31.5 |
| 4/26/2015 12:52:29 | 35.43 | 33.83 | 572 | 1.77 | 0.29 | 31.3 |
| 4/26/2015 12:52:30 | 35.76 | 34.16 | 582 | 1.78 | 0.29 | 31.8 |
| 4/26/2015 12:52:31 | 36.09 | 34.49 | 578 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:52:31 | 36.42 | 34.82 | 578 | 1.76 | 0.29 | 31.6 |
| 4/26/2015 12:52:32 | 36.75 | 35.15 | 578 | 1.78 | 0.29 | 31.6 |
| 4/26/2015 12:52:32 | 37.07 | 35.47 | 578 | 1.76 | 0.29 | 31.6 |
| 4/26/2015 12:52:33 | 37.40 | 35.80 | 578 | 1.76 | 0.29 | 31.6 |
| 4/26/2015 12:52:34 | 37.73 | 36.13 | 578 | 1.78 | 0.28 | 31.6 |
| 4/26/2015 12:52:35 | 38.06 | 36.46 | 575 | 1.78 | 0.29 | 31.5 |
| 4/26/2015 12:52:35 | 38.39 | 36.79 | 572 | 1.77 | 0.29 | 31.3 |
| 4/26/2015 12:52:36 | 38.71 | 37.11 | 572 | 1.77 | 0.29 | 31.3 |
| 4/26/2015 12:52:36 | 39.04 | 37.44 | 578 | 1.76 | 0.29 | 31.6 |
| 4/26/2015 12:52:37 | 39.37 | 37.77 | 575 | 1.76 | 0.29 | 31.4 |
| 4/26/2015 12:52:38 | 39.70 | 38.10 | 575 | 1.76 | 0.30 | 31.4 |
| 4/26/2015 12:52:38 | 40.03 | 38.43 | 578 | 1.78 | 0.37 | 31.6 |
| 4/26/2015 12:52:39 | 40.35 | 38.75 | 575 | 1.76 | 0.29 | 31.5 |
| 4/26/2015 12:52:39 | 40.68 | 39.08 | 578 | 1.76 | 0.29 | 31.6 |
| 4/26/2015 12:52:40 | 41.01 | 39.41 | 575 | 1.76 | 0.30 | 31.5 |
| 4/26/2015 12:52:41 | 41.34 | 39.74 | 575 | 1.78 | 0.29 | 31.5 |
| 4/26/2015 12:52:41 | 41.67 | 40.07 | 572 | 1.83 | 0.29 | 31.3 |
| 4/26/2015 12:52:42 | 41.99 | 40.39 | 569 | 1.79 | 0.29 | 31.1 |
| 4/26/2015 12:52:55 | 42.32 | 40.72 | 0 | 1.76 | 0.94 | 0.0 |
| 4/26/2015 12:52:59 | 42.65 | 41.05 | 89 | 1.73 | 1.13 | 4.9 |
| 4/26/2015 12:53:01 | 42.98 | 41.38 | 158 | 1.72 | 1.08 | 8.6 |
| 4/26/2015 12:55:21 | 43.31 | 41.71 | 65 | 1.71 | 1.51 | 3.6 |
| 4/26/2015 12:55:28 | 43.64 | 42.04 | 31 | 1.75 | 1.14 | 1.7 |
| 4/26/2015 12:55:29 | 43.96 | 42.36 | 117 | 1.74 | 1.09 | 6.4 |
| 4/26/2015 12:55:31 | 44.29 | 42.69 | 231 | 1.76 | 1.12 | 12.7 |
| 4/26/2015 12:55:33 | 44.62 | 43.02 | 237 | 1.68 | 1.19 | 13.0 |
| 4/26/2015 13:02:06 | 44.95 | 43.35 | 0 | 1.71 | 1.09 | 0.0 |
| 4/26/2015 13:02:08 | 45.28 | 43.68 | 154 | 1.72 | 1.11 | 8.4 |
| 4/26/2015 13:02:09 | 45.60 | 44.00 | 257 | 1.72 | 1.23 | 14.1 |
| 4/26/2015 13:02:12 | 45.93 | 44.33 | 206 | 1.74 | 1.09 | 11.3 |
| 4/26/2015 13:02:55 | 46.26 | 44.66 | 84 | 1.75 | 1.06 | 4.6 |
| 4/26/2015 13:02:59 | 46.59 | 44.99 | 87 | 1.77 | 1.12 | 4.7 |
| 4/26/2015 13:03:04 | 46.92 | 45.32 | 64 | 1.78 | 1.15 | 3.5 |
| 4/26/2015 13:03:08 | 47.24 | 45.64 | 101 | 1.75 | 1.08 | 5.5 |
| 4/26/2015 13:03:14 | 47.57 | 45.97 | 54 | 1.78 | 1.13 | 3.0 |
| 4/26/2015 13:03:21 | 47.90 | 46.30 | 54 | 1.77 | 1.12 | 3.0 |
| 4/26/2015 13:03:23 | 48.23 | 46.63 | 122 | 1.73 | 1.11 | 6.7 |
| 4/26/2015 13:03:25 | 48.56 | 46.96 | 171 | 1.72 | 1.11 | 9.4 |
| 4/26/2015 13:03:27 | 48.88 | 47.28 | 183 | 1.72 | 1.07 | 10.0 |
| 4/26/2015 13:03:29 | 49.21 | 47.61 | 193 | 1.74 | 1.11 | 10.5 |
| 4/26/2015 13:03:31 | 49.54 | 47.94 | 199 | 1.72 | 0.94 | 10.9 |
| 4/26/2015 13:03:43 | 49.87 | 48.27 | 35 | 1.72 | 0.99 | 1.9 |
| 4/26/2015 13:03:45 | 50.20 | 48.60 | 147 | 1.76 | 1.06 | 8.0 |
| 4/26/2015 13:03:49 | 50.53 | 48.93 | 87 | 1.77 | 1.14 | 4.8 |
| 4/26/2015 13:03:53 | 50.85 | 49.25 | 85 | 1.76 | 1.08 | 4.7 |
| 4/26/2015 13:03:58 | 51.18 | 49.58 | 87 | 1.76 | 1.10 | 4.7 |
| 4/26/2015 13:04:02 | 51.51 | 49.91 | 93 | 1.75 | 1.11 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 13:04:05 | 51.84 | 50.24 | 101 | 1.74 | 1.09 | 5.5 |
| 4/26/2015 | 13:04:09 | 52.17 | 50.57 | 106 | 1.76 | 1.13 | 5.8 |
| 4/26/2015 | 13:04:09 | 52.26 | 50.66 | 104 | 1.76 | 1.14 | 5.7 |

## H18 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:50:44

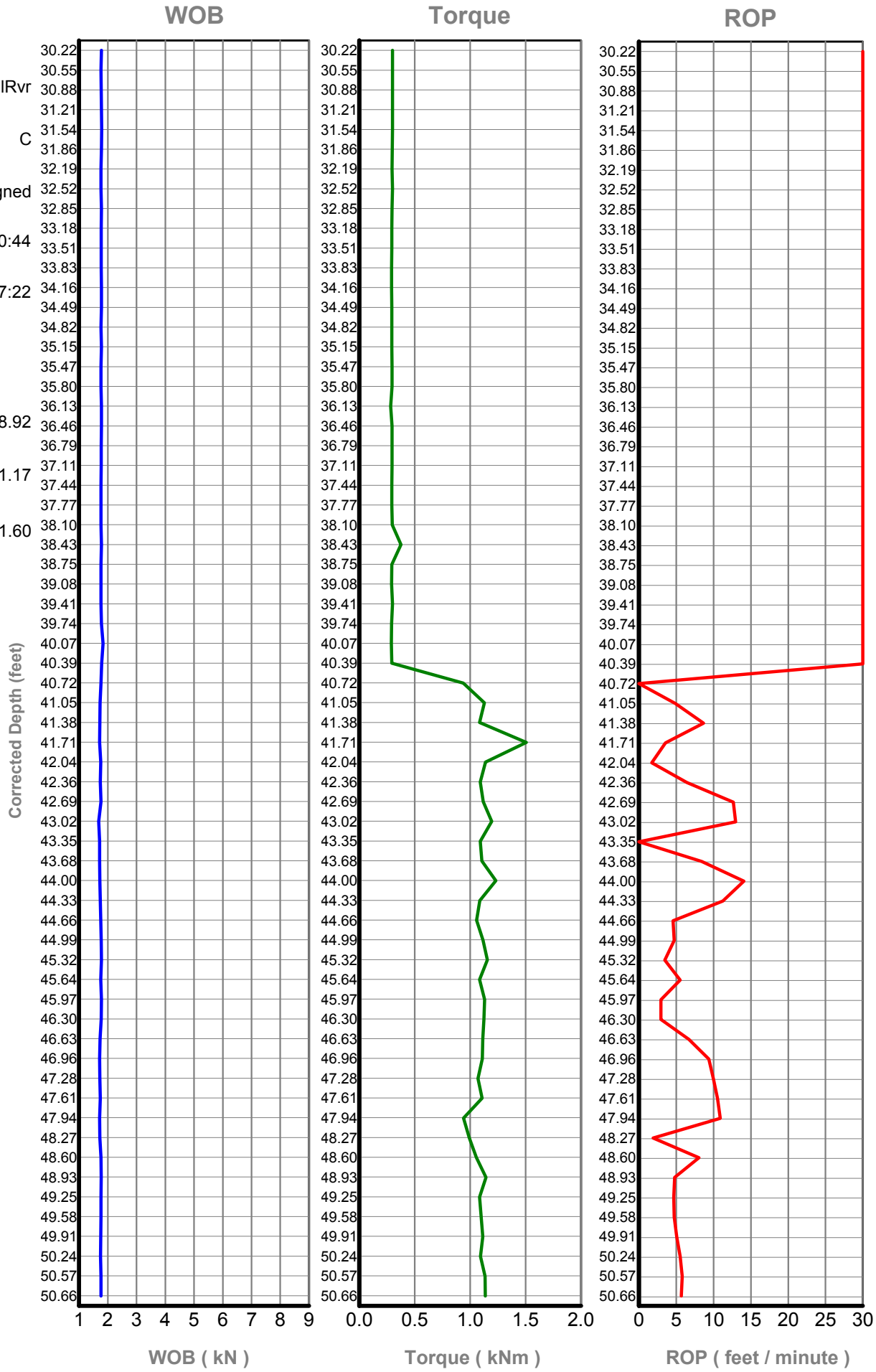
**End Date:**
4/26/2015 13:07:22

**Operator Note:**
'1.6 1.8 C Auto Complete'

**Northing:**
366,398.92

**Easting:**
249,991.17

**Tide (feet):**
1.60



## Hole: H180 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:48:11 | 32.81 | 30.31 | 635 | 1.72 | 0.30 | 34.7 |
| 4/26/2015 11:48:12 | 33.14 | 30.64 | 636 | 1.76 | 0.30 | 34.8 |
| 4/26/2015 11:48:12 | 33.46 | 30.96 | 636 | 1.76 | 0.29 | 34.8 |
| 4/26/2015 11:48:13 | 33.79 | 31.29 | 636 | 1.78 | 0.29 | 34.8 |
| 4/26/2015 11:48:14 | 34.12 | 31.62 | 633 | 1.75 | 0.30 | 34.6 |
| 4/26/2015 11:48:14 | 34.45 | 31.95 | 637 | 1.77 | 0.30 | 34.8 |
| 4/26/2015 11:48:15 | 34.78 | 32.28 | 636 | 1.77 | 0.29 | 34.8 |
| 4/26/2015 11:48:16 | 35.11 | 32.61 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 11:48:16 | 35.43 | 32.93 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 11:48:17 | 35.76 | 33.26 | 629 | 1.77 | 0.31 | 34.4 |
| 4/26/2015 11:48:17 | 36.09 | 33.59 | 633 | 1.78 | 0.29 | 34.6 |
| 4/26/2015 11:48:18 | 36.42 | 33.92 | 636 | 1.77 | 0.29 | 34.8 |
| 4/26/2015 11:48:18 | 36.75 | 34.25 | 636 | 1.77 | 0.29 | 34.8 |
| 4/26/2015 11:48:19 | 37.07 | 34.57 | 636 | 1.77 | 0.29 | 34.8 |
| 4/26/2015 11:48:19 | 37.40 | 34.90 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 11:48:20 | 37.73 | 35.23 | 636 | 1.76 | 0.30 | 34.8 |
| 4/26/2015 11:48:20 | 38.06 | 35.56 | 633 | 1.76 | 0.31 | 34.6 |
| 4/26/2015 11:48:21 | 38.39 | 35.89 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 11:48:21 | 38.71 | 36.21 | 630 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 11:48:22 | 39.04 | 36.54 | 630 | 1.78 | 0.29 | 34.5 |
| 4/26/2015 11:48:23 | 39.37 | 36.87 | 630 | 1.78 | 0.29 | 34.5 |
| 4/26/2015 11:48:24 | 39.70 | 37.20 | 629 | 1.73 | 0.29 | 34.4 |
| 4/26/2015 11:48:24 | 40.03 | 37.53 | 633 | 1.78 | 0.29 | 34.6 |
| 4/26/2015 11:48:25 | 40.35 | 37.85 | 629 | 1.78 | 0.29 | 34.4 |
| 4/26/2015 11:48:25 | 40.68 | 38.18 | 630 | 1.76 | 0.29 | 34.5 |
| 4/26/2015 11:48:26 | 41.01 | 38.51 | 629 | 1.75 | 0.29 | 34.4 |
| 4/26/2015 11:48:26 | 41.34 | 38.84 | 637 | 1.77 | 0.30 | 34.8 |
| 4/26/2015 11:48:27 | 41.67 | 39.17 | 631 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 11:48:27 | 41.99 | 39.49 | 628 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:48:28 | 42.32 | 39.82 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 11:48:29 | 42.65 | 40.15 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:48:29 | 42.98 | 40.48 | 627 | 1.78 | 0.29 | 34.3 |
| 4/26/2015 11:48:30 | 43.31 | 40.81 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 11:48:30 | 43.64 | 41.14 | 634 | 1.74 | 0.29 | 34.7 |
| 4/26/2015 11:48:31 | 43.96 | 41.46 | 627 | 1.78 | 0.29 | 34.3 |
| 4/26/2015 11:48:31 | 44.29 | 41.79 | 630 | 1.77 | 0.28 | 34.5 |
| 4/26/2015 11:48:32 | 44.62 | 42.12 | 630 | 1.78 | 0.30 | 34.5 |
| 4/26/2015 11:48:32 | 44.95 | 42.45 | 630 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 11:48:33 | 45.28 | 42.78 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 11:48:34 | 45.60 | 43.10 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:48:34 | 45.93 | 43.43 | 624 | 1.76 | 0.29 | 34.1 |
| 4/26/2015 11:48:35 | 46.26 | 43.76 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:48:36 | 46.59 | 44.09 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 11:48:36 | 46.92 | 44.42 | 630 | 1.76 | 0.29 | 34.5 |
| 4/26/2015 11:48:37 | 47.24 | 44.74 | 630 | 1.78 | 0.29 | 34.5 |
| 4/26/2015 11:48:37 | 47.57 | 45.07 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:48:38 | 47.90 | 45.40 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 11:48:38 | 48.23 | 45.73 | 624 | 1.76 | 0.29 | 34.1 |
| 4/26/2015 11:48:39 | 48.56 | 46.06 | 621 | 1.76 | 0.29 | 33.9 |
| 4/26/2015 11:48:39 | 48.88 | 46.38 | 622 | 1.77 | 0.29 | 34.0 |
| 4/26/2015 11:48:40 | 49.21 | 46.71 | 614 | 1.77 | 0.29 | 33.6 |
| 4/26/2015 11:48:41 | 49.54 | 47.04 | 618 | 1.74 | 0.29 | 33.8 |
| 4/26/2015 11:49:23 | 49.87 | 47.37 | 68 | 1.74 | 1.10 | 3.7 |
| 4/26/2015 11:49:35 | 50.20 | 47.70 | 52 | 1.72 | 0.97 | 2.8 |
| 4/26/2015 11:49:37 | 50.53 | 48.03 | 185 | 1.74 | 1.00 | 10.1 |
| 4/26/2015 11:49:38 | 50.85 | 48.35 | 245 | 1.89 | 1.00 | 13.4 |
| 4/26/2015 11:49:50 | 51.18 | 48.68 | 106 | 1.72 | 1.12 | 5.8 |
| 4/26/2015 11:49:52 | 51.51 | 49.01 | 241 | 1.70 | 1.39 | 13.2 |
| 4/26/2015 11:49:53 | 51.84 | 49.34 | 222 | 1.75 | 1.03 | 12.2 |
| 4/26/2015 11:49:55 | 52.17 | 49.67 | 204 | 1.74 | 1.09 | 11.1 |
| 4/26/2015 11:49:57 | 52.49 | 49.99 | 194 | 1.71 | 1.04 | 10.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 11:49:59 | 52.82 | 50.32 | 211 | 1.73 | 0.94 | 11.5 |
| 4/26/2015 | 11:50:21 | 53.15 | 50.65 | 0 | 1.74 | 0.99 | 0.0 |
| 4/26/2015 | 11:50:25 | 53.48 | 50.98 | 104 | 1.78 | 1.05 | 5.7 |
| 4/26/2015 | 11:50:59 | 53.81 | 51.31 | 0 | 1.77 | 1.18 | 0.0 |
| 4/26/2015 | 11:51:02 | 54.13 | 51.63 | 104 | 1.77 | 1.06 | 5.7 |
| 4/26/2015 | 11:51:06 | 54.46 | 51.96 | 98 | 1.86 | 1.24 | 5.4 |
| 4/26/2015 | 11:51:11 | 54.79 | 52.29 | 75 | 1.76 | 1.05 | 4.1 |
| 4/26/2015 | 11:51:13 | 55.12 | 52.62 | 131 | 1.72 | 1.02 | 7.2 |
| 4/26/2015 | 11:51:15 | 55.45 | 52.95 | 194 | 1.77 | 1.05 | 10.6 |
| 4/26/2015 | 11:51:24 | 55.77 | 53.27 | 40 | 1.78 | 1.00 | 2.2 |
| 4/26/2015 | 11:51:34 | 56.10 | 53.60 | 38 | 1.77 | 1.00 | 2.1 |
| 4/26/2015 | 11:51:45 | 56.43 | 53.93 | 31 | 1.77 | 1.19 | 1.7 |
| 4/26/2015 | 11:51:56 | 56.76 | 54.26 | 34 | 1.78 | 0.99 | 1.8 |
| 4/26/2015 | 11:52:01 | 56.96 | 54.46 | 39 | 1.78 | 1.15 | 2.2 |

## H180 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:46:41

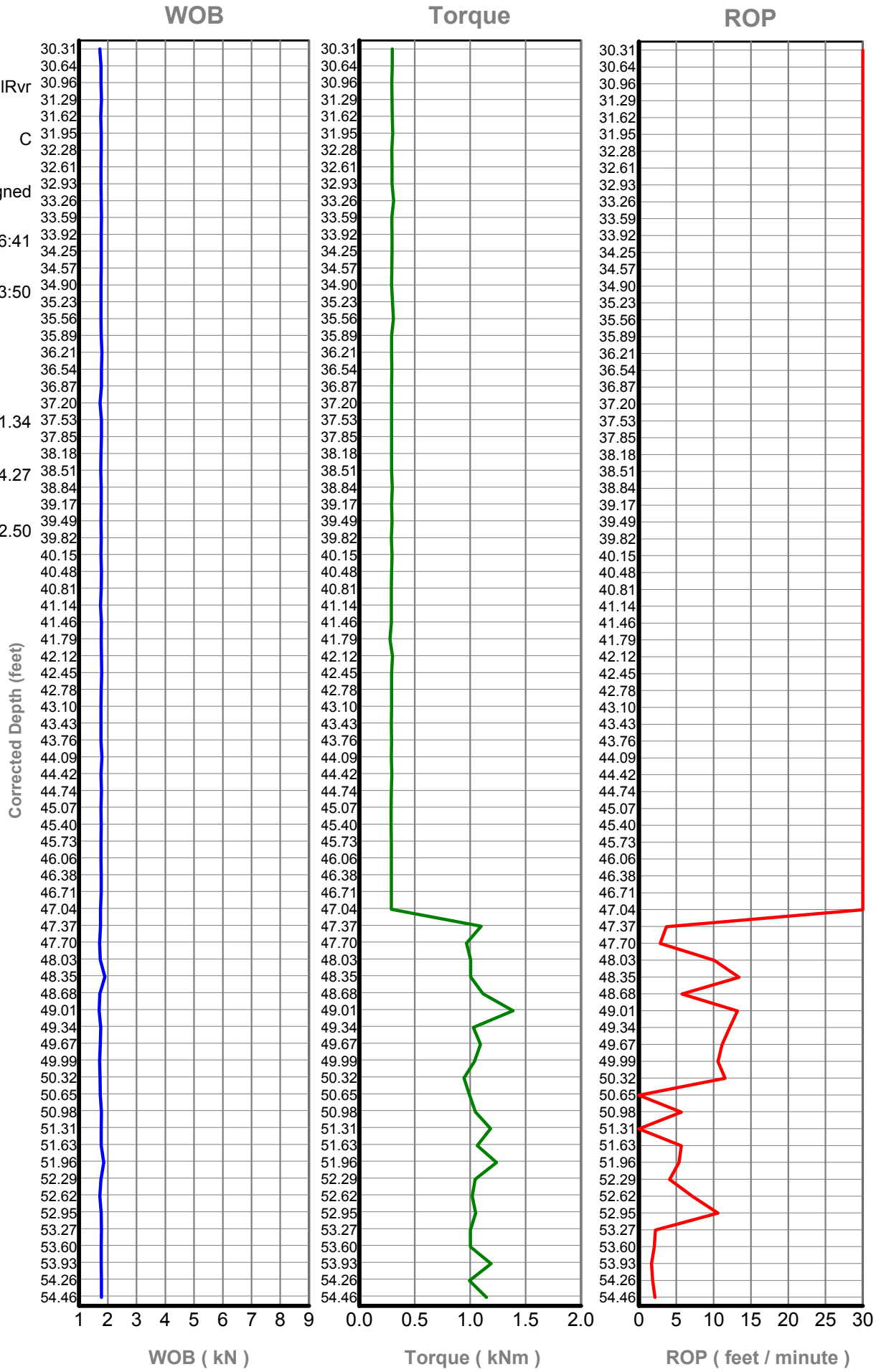
**End Date:**
4/26/2015 11:53:50

**Operator Note:**
'2.5 2.9 C Auto Complete'

**Northing:**
366,161.34

**Easting:**
250,184.27

**Tide (feet):**
2.50



## Hole: H181 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:20:58 | 31.17 | 30.17 | 1,037 | 0.18 | 0.33 | 56.7 |
| 4/26/2015 2:20:58 | 31.50 | 30.50 | 1,043 | 0.18 | 0.32 | 57.1 |
| 4/26/2015 2:20:59 | 31.82 | 30.82 | 1,043 | 0.18 | 0.32 | 57.1 |
| 4/26/2015 2:20:59 | 32.15 | 31.15 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 2:21:00 | 32.48 | 31.48 | 1,023 | 0.18 | 0.32 | 55.9 |
| 4/26/2015 2:21:00 | 32.81 | 31.81 | 1,023 | 0.18 | 0.32 | 55.9 |
| 4/26/2015 2:21:00 | 33.14 | 32.14 | 1,039 | 0.18 | 0.31 | 56.8 |
| 4/26/2015 2:21:01 | 33.46 | 32.46 | 1,048 | 0.18 | 0.31 | 57.3 |
| 4/26/2015 2:21:01 | 33.79 | 32.79 | 1,048 | 0.18 | 0.31 | 57.3 |
| 4/26/2015 2:21:01 | 34.12 | 33.12 | 1,042 | 0.18 | 0.32 | 57.0 |
| 4/26/2015 2:21:02 | 34.45 | 33.45 | 1,050 | 0.18 | 0.32 | 57.4 |
| 4/26/2015 2:21:02 | 34.78 | 33.78 | 1,050 | 0.18 | 0.32 | 57.4 |
| 4/26/2015 2:21:02 | 35.11 | 34.11 | 1,059 | 0.18 | 0.32 | 57.9 |
| 4/26/2015 2:21:03 | 35.43 | 34.43 | 1,059 | 0.18 | 0.32 | 57.9 |
| 4/26/2015 2:21:03 | 35.76 | 34.76 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 2:21:03 | 36.09 | 35.09 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 2:21:04 | 36.42 | 35.42 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 2:21:04 | 36.75 | 35.75 | 1,034 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 2:21:04 | 37.07 | 36.07 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/26/2015 2:21:05 | 37.40 | 36.40 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/26/2015 2:21:05 | 37.73 | 36.73 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 2:21:05 | 38.06 | 37.06 | 1,032 | 0.18 | 0.31 | 56.4 |
| 4/26/2015 2:21:06 | 38.39 | 37.39 | 1,032 | 0.18 | 0.31 | 56.4 |
| 4/26/2015 2:21:06 | 38.71 | 37.71 | 1,043 | 0.18 | 0.32 | 57.1 |
| 4/26/2015 2:21:06 | 39.04 | 38.04 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/26/2015 2:21:07 | 39.37 | 38.37 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/26/2015 2:21:07 | 39.70 | 38.70 | 1,041 | 0.18 | 0.31 | 56.9 |
| 4/26/2015 2:21:07 | 40.03 | 39.03 | 1,044 | 0.18 | 0.32 | 57.1 |
| 4/26/2015 2:21:08 | 40.35 | 39.35 | 1,044 | 0.18 | 0.32 | 57.1 |
| 4/26/2015 2:21:08 | 40.68 | 39.68 | 1,044 | 0.18 | 0.31 | 57.1 |
| 4/26/2015 2:21:08 | 41.01 | 40.01 | 1,046 | 0.18 | 0.32 | 57.2 |
| 4/26/2015 2:21:09 | 41.34 | 40.34 | 1,046 | 0.18 | 0.32 | 57.2 |
| 4/26/2015 2:21:09 | 41.67 | 40.67 | 1,046 | 0.18 | 0.32 | 57.2 |
| 4/26/2015 2:21:09 | 41.99 | 40.99 | 1,041 | 0.18 | 0.31 | 56.9 |
| 4/26/2015 2:21:10 | 42.32 | 41.32 | 1,041 | 0.18 | 0.31 | 56.9 |
| 4/26/2015 2:21:10 | 42.65 | 41.65 | 1,041 | 0.18 | 0.32 | 56.9 |
| 4/26/2015 2:21:11 | 42.98 | 41.98 | 1,041 | 0.18 | 0.32 | 56.9 |
| 4/26/2015 2:21:11 | 43.31 | 42.31 | 1,041 | 0.18 | 0.32 | 56.9 |
| 4/26/2015 2:21:11 | 43.64 | 42.64 | 1,041 | 0.18 | 0.32 | 56.9 |
| 4/26/2015 2:21:12 | 43.96 | 42.96 | 1,038 | 0.18 | 0.32 | 56.7 |
| 4/26/2015 2:21:12 | 44.29 | 43.29 | 1,038 | 0.18 | 0.32 | 56.7 |
| 4/26/2015 2:21:12 | 44.62 | 43.62 | 1,038 | 0.18 | 0.32 | 56.7 |
| 4/26/2015 2:21:13 | 44.95 | 43.95 | 1,029 | 0.17 | 0.32 | 56.3 |
| 4/26/2015 2:21:13 | 45.28 | 44.28 | 1,029 | 0.17 | 0.32 | 56.3 |
| 4/26/2015 2:21:13 | 45.60 | 44.60 | 1,035 | 0.17 | 0.33 | 56.6 |
| 4/26/2015 2:21:14 | 45.93 | 44.93 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/26/2015 2:21:14 | 46.26 | 45.26 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/26/2015 2:21:14 | 46.59 | 45.59 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/26/2015 2:21:15 | 46.92 | 45.92 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 2:21:15 | 47.24 | 46.24 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/26/2015 2:21:15 | 47.57 | 46.57 | 1,029 | 0.17 | 0.32 | 56.3 |
| 4/26/2015 2:21:16 | 47.90 | 46.90 | 1,023 | 0.16 | 0.37 | 55.9 |
| 4/26/2015 2:21:48 | 48.23 | 47.23 | 22 | 2.53 | 0.37 | 1.2 |
| 4/26/2015 2:21:55 | 48.56 | 47.56 | 23 | 4.13 | 0.41 | 1.2 |
| 4/26/2015 2:21:59 | 48.88 | 47.88 | 103 | 3.24 | 0.39 | 5.7 |
| 4/26/2015 2:22:03 | 49.21 | 48.21 | 96 | 3.50 | 0.40 | 5.3 |
| 4/26/2015 2:22:07 | 49.54 | 48.54 | 72 | 3.16 | 0.40 | 3.9 |
| 4/26/2015 2:22:12 | 49.87 | 48.87 | 85 | 3.36 | 0.39 | 4.7 |
| 4/26/2015 2:22:16 | 50.20 | 49.20 | 76 | 3.53 | 0.40 | 4.2 |
| 4/26/2015 2:22:20 | 50.53 | 49.53 | 95 | 4.27 | 0.40 | 5.2 |
| 4/26/2015 2:22:24 | 50.85 | 49.85 | 93 | 4.37 | 0.40 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:22:27 | 51.18 | 50.18 | 105 | 3.73 | 0.40 | 5.8 |
| 4/26/2015 | 2:22:32 | 51.51 | 50.51 | 77 | 3.51 | 0.39 | 4.2 |
| 4/26/2015 | 2:22:37 | 51.84 | 50.84 | 82 | 3.78 | 0.40 | 4.5 |
| 4/26/2015 | 2:22:42 | 52.17 | 51.17 | 69 | 3.58 | 0.40 | 3.8 |
| 4/26/2015 | 2:22:47 | 52.49 | 51.49 | 69 | 3.68 | 0.40 | 3.8 |
| 4/26/2015 | 2:22:52 | 52.82 | 51.82 | 73 | 3.59 | 0.40 | 4.0 |
| 4/26/2015 | 2:22:56 | 53.15 | 52.15 | 85 | 3.54 | 0.40 | 4.7 |
| 4/26/2015 | 2:23:01 | 53.48 | 52.48 | 68 | 3.52 | 0.40 | 3.7 |
| 4/26/2015 | 2:23:07 | 53.81 | 52.81 | 61 | 3.69 | 0.40 | 3.3 |
| 4/26/2015 | 2:23:13 | 54.13 | 53.13 | 55 | 4.07 | 0.40 | 3.0 |
| 4/26/2015 | 2:23:17 | 54.46 | 53.46 | 85 | 3.99 | 0.40 | 4.6 |
| 4/26/2015 | 2:23:21 | 54.79 | 53.79 | 85 | 3.58 | 0.40 | 4.6 |
| 4/26/2015 | 2:23:27 | 55.12 | 54.12 | 67 | 3.69 | 0.40 | 3.7 |
| 4/26/2015 | 2:23:31 | 55.45 | 54.45 | 70 | 3.52 | 0.40 | 3.8 |
| 4/26/2015 | 2:23:38 | 55.77 | 54.77 | 55 | 3.38 | 0.40 | 3.0 |
| 4/26/2015 | 2:23:40 | 55.91 | 54.91 | 60 | 4.47 | 0.41 | 3.3 |

## H181 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:18:54

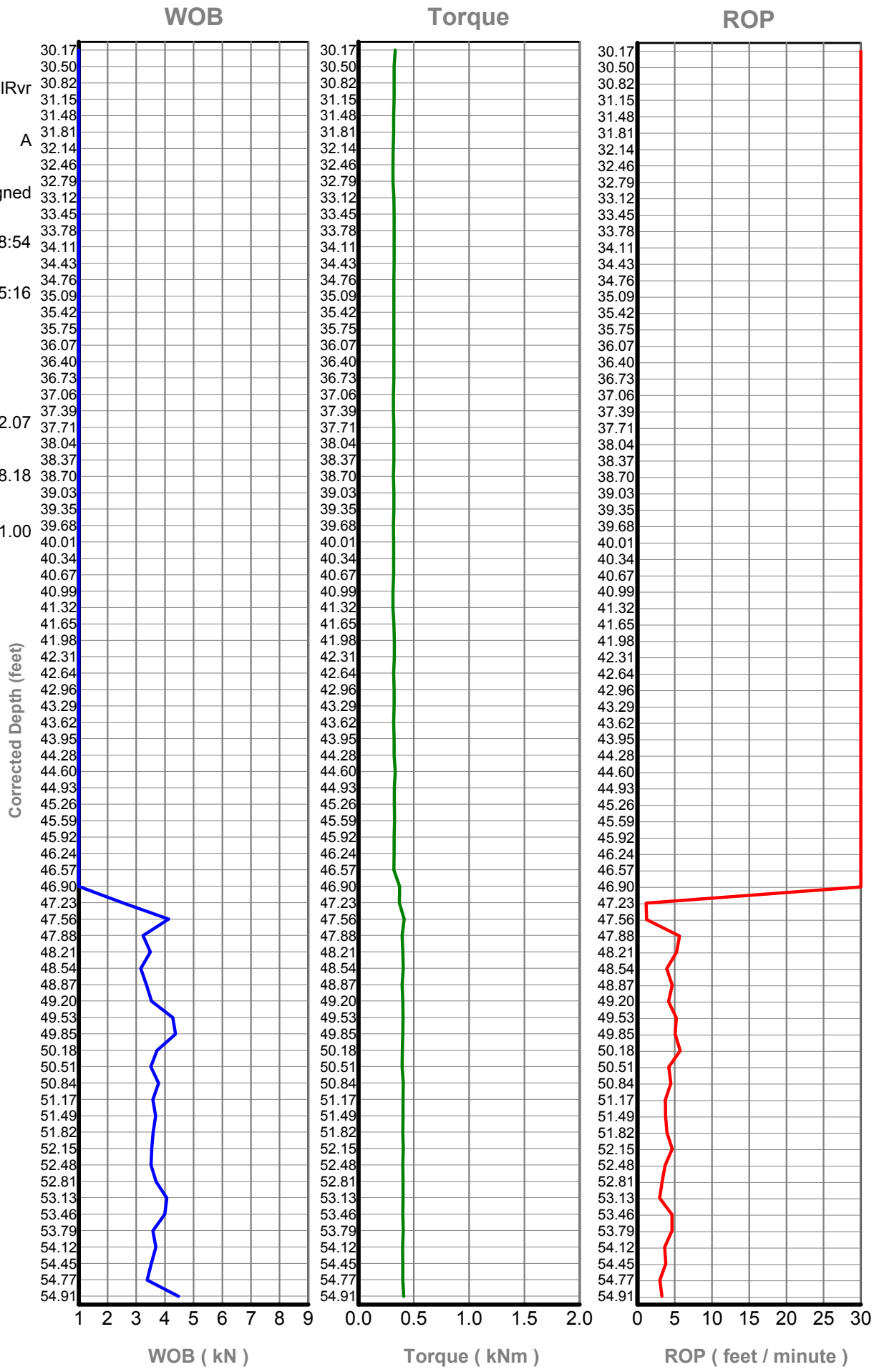
**End Date:**
4/26/2015 2:25:16

**Operator Note:**
'1 .9 b Auto Complete'

**Northing:**
366,212.07

**Easting:**
250,248.18

**Tide (feet):**
1.00



## Hole: H182 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:10:09 | 31.17 | 30.27 | 1,078 | 0.51 | 0.36 | 58.9 |
| 4/26/2015 2:10:10 | 31.50 | 30.60 | 1,068 | 0.51 | 0.36 | 58.4 |
| 4/26/2015 2:10:10 | 31.82 | 30.92 | 1,068 | 0.51 | 0.36 | 58.4 |
| 4/26/2015 2:10:10 | 32.15 | 31.25 | 1,080 | 0.45 | 0.32 | 59.0 |
| 4/26/2015 2:10:11 | 32.48 | 31.58 | 1,080 | 0.45 | 0.32 | 59.0 |
| 4/26/2015 2:10:11 | 32.81 | 31.91 | 1,073 | 0.46 | 0.32 | 58.7 |
| 4/26/2015 2:10:11 | 33.14 | 32.24 | 1,055 | 0.46 | 0.32 | 57.7 |
| 4/26/2015 2:10:12 | 33.46 | 32.56 | 1,055 | 0.46 | 0.32 | 57.7 |
| 4/26/2015 2:10:12 | 33.79 | 32.89 | 1,059 | 0.45 | 0.32 | 57.9 |
| 4/26/2015 2:10:12 | 34.12 | 33.22 | 1,056 | 0.47 | 0.32 | 57.7 |
| 4/26/2015 2:10:13 | 34.45 | 33.55 | 1,056 | 0.47 | 0.32 | 57.7 |
| 4/26/2015 2:10:13 | 34.78 | 33.88 | 1,053 | 0.47 | 0.31 | 57.6 |
| 4/26/2015 2:10:13 | 35.11 | 34.21 | 1,050 | 0.45 | 0.32 | 57.4 |
| 4/26/2015 2:10:14 | 35.43 | 34.53 | 1,050 | 0.45 | 0.32 | 57.4 |
| 4/26/2015 2:10:14 | 35.76 | 34.86 | 1,056 | 0.45 | 0.32 | 57.8 |
| 4/26/2015 2:10:15 | 36.09 | 35.19 | 1,038 | 0.43 | 0.33 | 56.7 |
| 4/26/2015 2:10:15 | 36.42 | 35.52 | 1,038 | 0.43 | 0.33 | 56.7 |
| 4/26/2015 2:10:15 | 36.75 | 35.85 | 1,028 | 0.60 | 0.35 | 56.2 |
| 4/26/2015 2:10:16 | 37.07 | 36.17 | 1,032 | 0.43 | 0.31 | 56.4 |
| 4/26/2015 2:10:16 | 37.40 | 36.50 | 1,032 | 0.43 | 0.31 | 56.4 |
| 4/26/2015 2:10:16 | 37.73 | 36.83 | 1,029 | 0.22 | 0.32 | 56.3 |
| 4/26/2015 2:10:17 | 38.06 | 37.16 | 1,023 | 0.43 | 0.32 | 56.0 |
| 4/26/2015 2:10:17 | 38.39 | 37.49 | 1,023 | 0.43 | 0.32 | 56.0 |
| 4/26/2015 2:10:17 | 38.71 | 37.81 | 1,032 | 0.43 | 0.32 | 56.4 |
| 4/26/2015 2:10:18 | 39.04 | 38.14 | 1,023 | 0.43 | 0.32 | 56.0 |
| 4/26/2015 2:10:18 | 39.37 | 38.47 | 1,023 | 0.43 | 0.32 | 56.0 |
| 4/26/2015 2:10:18 | 39.70 | 38.80 | 1,023 | 0.43 | 0.32 | 56.0 |
| 4/26/2015 2:10:19 | 40.03 | 39.13 | 1,032 | 0.36 | 0.32 | 56.4 |
| 4/26/2015 2:10:19 | 40.35 | 39.45 | 1,032 | 0.36 | 0.32 | 56.4 |
| 4/26/2015 2:10:19 | 40.68 | 39.78 | 1,020 | 0.18 | 0.32 | 55.8 |
| 4/26/2015 2:10:20 | 41.01 | 40.11 | 1,020 | 0.19 | 0.32 | 55.8 |
| 4/26/2015 2:10:20 | 41.34 | 40.44 | 1,020 | 0.19 | 0.32 | 55.8 |
| 4/26/2015 2:10:20 | 41.67 | 40.77 | 1,020 | 0.18 | 0.32 | 55.8 |
| 4/26/2015 2:10:21 | 41.99 | 41.09 | 1,020 | 0.18 | 0.31 | 55.8 |
| 4/26/2015 2:10:21 | 42.32 | 41.42 | 1,020 | 0.18 | 0.31 | 55.8 |
| 4/26/2015 2:10:21 | 42.65 | 41.75 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/26/2015 2:10:22 | 42.98 | 42.08 | 1,046 | 0.18 | 0.32 | 57.2 |
| 4/26/2015 2:10:22 | 43.31 | 42.41 | 1,046 | 0.18 | 0.32 | 57.2 |
| 4/26/2015 2:10:22 | 43.64 | 42.74 | 1,038 | 0.18 | 0.32 | 56.8 |
| 4/26/2015 2:10:23 | 43.96 | 43.06 | 1,025 | 0.19 | 0.32 | 56.0 |
| 4/26/2015 2:10:23 | 44.29 | 43.39 | 1,025 | 0.19 | 0.32 | 56.0 |
| 4/26/2015 2:10:23 | 44.62 | 43.72 | 1,025 | 0.18 | 0.34 | 56.0 |
| 4/26/2015 2:10:24 | 44.95 | 44.05 | 1,020 | 0.17 | 0.35 | 55.8 |
| 4/26/2015 2:10:25 | 45.28 | 44.38 | 926 | 0.17 | 0.36 | 50.6 |
| 4/26/2015 2:10:25 | 45.60 | 44.70 | 926 | 0.16 | 0.36 | 50.6 |
| 4/26/2015 2:10:26 | 45.93 | 45.03 | 840 | 0.17 | 0.36 | 45.9 |
| 4/26/2015 2:10:26 | 46.26 | 45.36 | 749 | 0.17 | 0.36 | 41.0 |
| 4/26/2015 2:10:27 | 46.59 | 45.69 | 685 | 0.17 | 0.36 | 37.4 |
| 4/26/2015 2:10:28 | 46.92 | 46.02 | 587 | 0.16 | 0.36 | 32.1 |
| 4/26/2015 2:10:28 | 47.24 | 46.34 | 587 | 0.16 | 0.36 | 32.1 |
| 4/26/2015 2:10:29 | 47.57 | 46.67 | 564 | 0.16 | 0.36 | 30.9 |
| 4/26/2015 2:10:30 | 47.90 | 47.00 | 559 | 0.16 | 0.37 | 30.5 |
| 4/26/2015 2:10:30 | 48.23 | 47.33 | 559 | 0.16 | 0.38 | 30.5 |
| 4/26/2015 2:11:08 | 48.56 | 47.66 | 69 | 3.67 | 0.39 | 3.8 |
| 4/26/2015 2:11:12 | 48.88 | 47.98 | 124 | 3.77 | 0.39 | 6.8 |
| 4/26/2015 2:11:14 | 49.21 | 48.31 | 144 | 4.55 | 0.39 | 7.9 |
| 4/26/2015 2:11:16 | 49.54 | 48.64 | 172 | 3.62 | 0.39 | 9.4 |
| 4/26/2015 2:11:20 | 49.87 | 48.97 | 86 | 3.20 | 0.39 | 4.7 |
| 4/26/2015 2:11:23 | 50.20 | 49.30 | 100 | 3.46 | 0.39 | 5.5 |
| 4/26/2015 2:11:28 | 50.53 | 49.63 | 28 | 3.41 | 0.40 | 1.5 |
| 4/26/2015 2:11:36 | 50.85 | 49.95 | 44 | 3.76 | 0.41 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:11:44 | 51.18 | 50.28 | 81 | 3.69 | 0.40 | 4.4 |
| 4/26/2015 | 2:11:50 | 51.51 | 50.61 | 57 | 4.57 | 0.40 | 3.1 |
| 4/26/2015 | 2:11:57 | 51.84 | 50.94 | 48 | 4.50 | 0.40 | 2.6 |
| 4/26/2015 | 2:12:07 | 52.17 | 51.27 | 27 | 4.18 | 0.40 | 1.5 |
| 4/26/2015 | 2:12:24 | 52.49 | 51.59 | 35 | 4.01 | 0.40 | 1.9 |
| 4/26/2015 | 2:12:36 | 52.82 | 51.92 | 27 | 3.58 | 0.40 | 1.5 |
| 4/26/2015 | 2:12:46 | 53.15 | 52.25 | 46 | 2.78 | 0.40 | 2.5 |
| 4/26/2015 | 2:12:58 | 53.48 | 52.58 | 17 | 4.10 | 0.40 | 0.9 |
| 4/26/2015 | 2:13:24 | 53.56 | 52.66 | 3 | 3.43 | 0.30 | 0.2 |

## H182 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:05:54

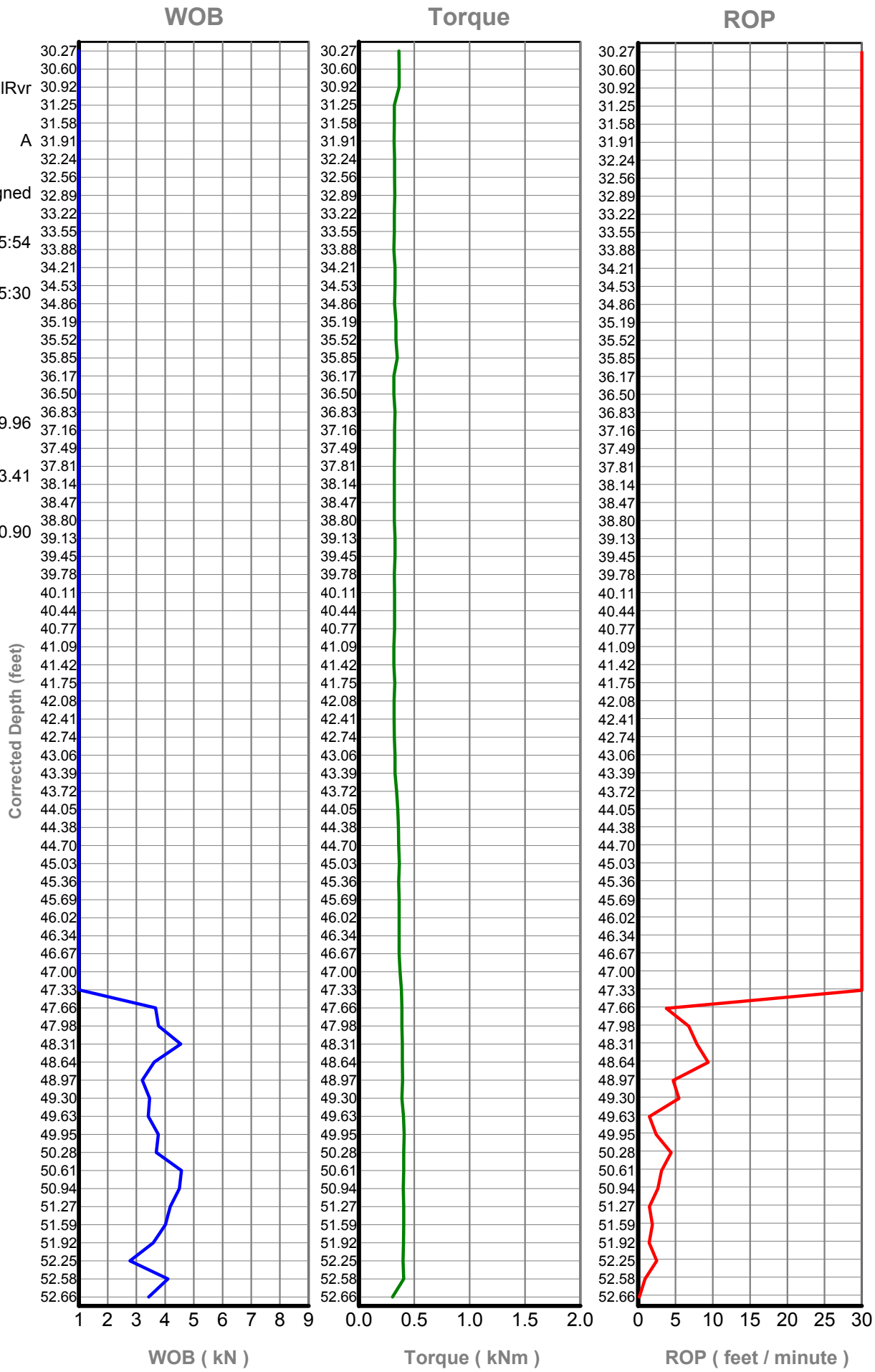
**End Date:**
4/26/2015 2:15:30

**Operator Note:**
'0.9 .8 b Auto Complete'

**Northing:**
366,249.96

**Easting:**
250,293.41

**Tide (feet):**
0.90



## Hole: H183 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:11:25 | 31.17 | 30.27 | 524 | 1.80 | 0.16 | 28.6 |
| 4/26/2015 2:11:26 | 31.50 | 30.60 | 517 | 1.81 | 0.16 | 28.3 |
| 4/26/2015 2:11:26 | 31.82 | 30.92 | 521 | 1.79 | 0.16 | 28.5 |
| 4/26/2015 2:11:27 | 32.15 | 31.25 | 526 | 1.79 | 0.16 | 28.8 |
| 4/26/2015 2:11:28 | 32.48 | 31.58 | 520 | 1.80 | 0.18 | 28.4 |
| 4/26/2015 2:11:28 | 32.81 | 31.91 | 531 | 1.79 | 0.17 | 29.0 |
| 4/26/2015 2:11:29 | 33.14 | 32.24 | 523 | 1.82 | 0.16 | 28.6 |
| 4/26/2015 2:11:30 | 33.46 | 32.56 | 523 | 1.78 | 0.16 | 28.6 |
| 4/26/2015 2:11:30 | 33.79 | 32.89 | 519 | 1.84 | 0.16 | 28.4 |
| 4/26/2015 2:11:31 | 34.12 | 33.22 | 521 | 1.81 | 0.16 | 28.5 |
| 4/26/2015 2:11:32 | 34.45 | 33.55 | 521 | 1.81 | 0.16 | 28.5 |
| 4/26/2015 2:11:32 | 34.78 | 33.88 | 526 | 1.79 | 0.16 | 28.7 |
| 4/26/2015 2:11:33 | 35.11 | 34.21 | 526 | 1.79 | 0.16 | 28.7 |
| 4/26/2015 2:11:34 | 35.43 | 34.53 | 535 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 2:11:35 | 35.76 | 34.86 | 537 | 1.80 | 0.16 | 29.4 |
| 4/26/2015 2:11:35 | 36.09 | 35.19 | 521 | 1.81 | 0.16 | 28.5 |
| 4/26/2015 2:11:36 | 36.42 | 35.52 | 521 | 1.82 | 0.16 | 28.5 |
| 4/26/2015 2:11:37 | 36.75 | 35.85 | 518 | 1.80 | 0.16 | 28.3 |
| 4/26/2015 2:11:37 | 37.07 | 36.17 | 524 | 1.83 | 0.16 | 28.7 |
| 4/26/2015 2:11:38 | 37.40 | 36.50 | 522 | 1.79 | 0.16 | 28.6 |
| 4/26/2015 2:11:39 | 37.73 | 36.83 | 522 | 1.82 | 0.16 | 28.6 |
| 4/26/2015 2:11:39 | 38.06 | 37.16 | 524 | 1.79 | 0.16 | 28.6 |
| 4/26/2015 2:11:40 | 38.39 | 37.49 | 521 | 1.81 | 0.16 | 28.5 |
| 4/26/2015 2:11:41 | 38.71 | 37.81 | 518 | 1.80 | 0.16 | 28.3 |
| 4/26/2015 2:11:41 | 39.04 | 38.14 | 528 | 1.81 | 0.16 | 28.9 |
| 4/26/2015 2:11:42 | 39.37 | 38.47 | 532 | 1.81 | 0.17 | 29.1 |
| 4/26/2015 2:11:43 | 39.70 | 38.80 | 530 | 1.81 | 0.16 | 29.0 |
| 4/26/2015 2:11:43 | 40.03 | 39.13 | 530 | 1.81 | 0.16 | 29.0 |
| 4/26/2015 2:11:44 | 40.35 | 39.45 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 2:11:45 | 40.68 | 39.78 | 523 | 1.81 | 0.16 | 28.6 |
| 4/26/2015 2:11:45 | 41.01 | 40.11 | 529 | 1.79 | 0.16 | 28.9 |
| 4/26/2015 2:11:46 | 41.34 | 40.44 | 526 | 1.81 | 0.16 | 28.8 |
| 4/26/2015 2:11:47 | 41.67 | 40.77 | 526 | 1.79 | 0.16 | 28.8 |
| 4/26/2015 2:11:48 | 41.99 | 41.09 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 2:11:48 | 42.32 | 41.42 | 526 | 1.82 | 0.16 | 28.8 |
| 4/26/2015 2:11:49 | 42.65 | 41.75 | 526 | 1.79 | 0.16 | 28.8 |
| 4/26/2015 2:11:50 | 42.98 | 42.08 | 526 | 1.79 | 0.16 | 28.8 |
| 4/26/2015 2:11:50 | 43.31 | 42.41 | 523 | 1.79 | 0.16 | 28.6 |
| 4/26/2015 2:11:51 | 43.64 | 42.74 | 523 | 1.83 | 0.16 | 28.6 |
| 4/26/2015 2:11:52 | 43.96 | 43.06 | 526 | 1.81 | 0.16 | 28.8 |
| 4/26/2015 2:11:52 | 44.29 | 43.39 | 523 | 1.81 | 0.16 | 28.6 |
| 4/26/2015 2:11:53 | 44.62 | 43.72 | 517 | 1.80 | 0.17 | 28.3 |
| 4/26/2015 2:11:54 | 44.95 | 44.05 | 521 | 1.79 | 0.16 | 28.5 |
| 4/26/2015 2:11:54 | 45.28 | 44.38 | 521 | 1.80 | 0.17 | 28.5 |
| 4/26/2015 2:11:55 | 45.60 | 44.70 | 519 | 1.81 | 0.16 | 28.4 |
| 4/26/2015 2:11:55 | 45.93 | 45.03 | 519 | 1.81 | 0.16 | 28.4 |
| 4/26/2015 2:11:57 | 46.26 | 45.36 | 519 | 1.79 | 0.17 | 28.4 |
| 4/26/2015 2:11:57 | 46.59 | 45.69 | 525 | 1.79 | 0.17 | 28.7 |
| 4/26/2015 2:11:58 | 46.92 | 46.02 | 520 | 1.81 | 0.16 | 28.5 |
| 4/26/2015 2:11:59 | 47.24 | 46.34 | 523 | 1.79 | 0.17 | 28.6 |
| 4/26/2015 2:11:59 | 47.57 | 46.67 | 523 | 1.82 | 0.17 | 28.6 |
| 4/26/2015 2:12:00 | 47.90 | 47.00 | 517 | 1.81 | 0.16 | 28.3 |
| 4/26/2015 2:12:01 | 48.23 | 47.33 | 510 | 1.81 | 0.16 | 27.9 |
| 4/26/2015 2:12:01 | 48.56 | 47.66 | 510 | 1.81 | 0.17 | 27.9 |
| 4/26/2015 2:12:02 | 48.88 | 47.98 | 516 | 1.80 | 0.16 | 28.2 |
| 4/26/2015 2:12:03 | 49.21 | 48.31 | 508 | 1.79 | 0.16 | 27.8 |
| 4/26/2015 2:12:03 | 49.54 | 48.64 | 517 | 1.81 | 0.16 | 28.3 |
| 4/26/2015 2:12:23 | 49.87 | 48.97 | 0 | 1.74 | 1.08 | 0.0 |
| 4/26/2015 2:12:25 | 50.20 | 49.30 | 100 | 1.75 | 1.17 | 5.5 |
| 4/26/2015 2:12:31 | 50.53 | 49.63 | 0 | 1.83 | 1.14 | 0.0 |
| 4/26/2015 2:12:34 | 50.85 | 49.95 | 63 | 1.75 | 1.09 | 3.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:12:35 | 51.18 | 50.28 | 192 | 1.75 | 1.14 | 10.5 |
| 4/26/2015 | 2:12:40 | 51.51 | 50.61 | 0 | 1.78 | 1.55 | 0.0 |
| 4/26/2015 | 2:12:49 | 51.84 | 50.94 | 100 | 1.76 | 1.17 | 5.5 |
| 4/26/2015 | 2:12:51 | 52.17 | 51.27 | 205 | 1.79 | 1.21 | 11.2 |
| 4/26/2015 | 2:13:10 | 52.49 | 51.59 | 11 | 1.76 | 1.20 | 0.6 |
| 4/26/2015 | 2:13:12 | 52.82 | 51.92 | 124 | 1.78 | 1.15 | 6.8 |
| 4/26/2015 | 2:13:14 | 53.15 | 52.25 | 139 | 1.76 | 1.21 | 7.6 |
| 4/26/2015 | 2:13:17 | 53.48 | 52.58 | 139 | 1.76 | 1.18 | 7.6 |
| 4/26/2015 | 2:13:20 | 53.81 | 52.91 | 139 | 1.77 | 1.15 | 7.6 |
| 4/26/2015 | 2:13:22 | 54.13 | 53.23 | 139 | 1.77 | 1.16 | 7.6 |
| 4/26/2015 | 2:13:25 | 54.46 | 53.56 | 116 | 1.79 | 1.14 | 6.4 |
| 4/26/2015 | 2:13:29 | 54.79 | 53.89 | 92 | 1.79 | 1.15 | 5.1 |
| 4/26/2015 | 2:13:33 | 55.12 | 54.22 | 95 | 1.79 | 1.14 | 5.2 |
| 4/26/2015 | 2:13:36 | 55.45 | 54.55 | 103 | 1.78 | 1.14 | 5.7 |
| 4/26/2015 | 2:13:41 | 55.77 | 54.87 | 66 | 1.76 | 1.18 | 3.6 |
| 4/26/2015 | 2:13:55 | 56.10 | 55.20 | 92 | 1.78 | 1.12 | 5.0 |
| 4/26/2015 | 2:13:56 | 56.21 | 55.31 | 95 | 1.79 | 0.54 | 5.2 |

## H183 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:10:01

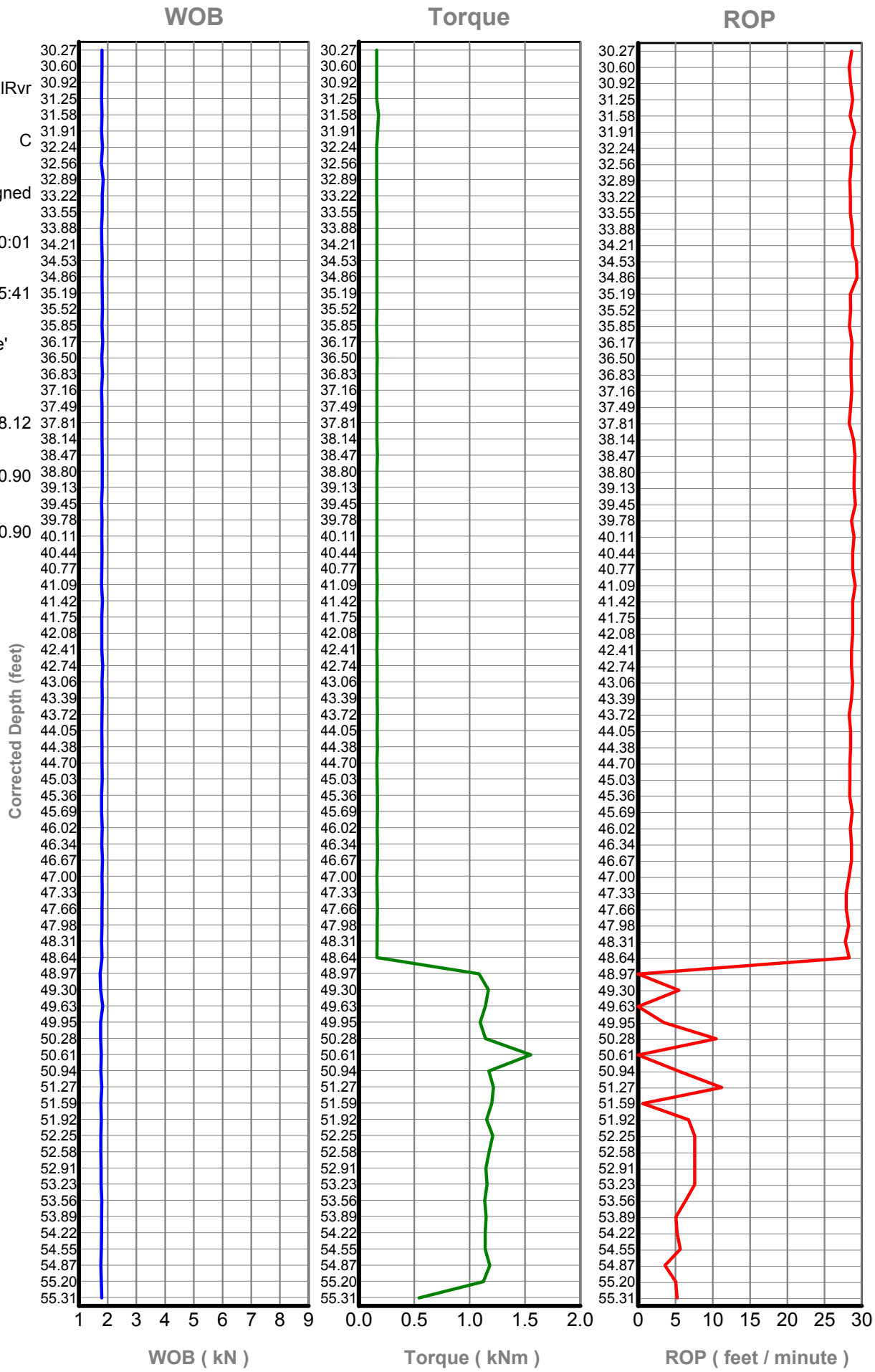
**End Date:**
4/26/2015 2:15:41

**Operator Note:**
'0.9 0.7 c Auto Complete'

**Northing:**
366,298.12

**Easting:**
250,350.90

**Tide (feet):**
0.90



## Hole: H184 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:13:23 | 34.45 | 30.05 | 1,023 | 0.92 | 0.36 | 56.0 |
| 4/25/2015 21:13:23 | 34.78 | 30.38 | 1,020 | 0.92 | 0.36 | 55.8 |
| 4/25/2015 21:13:23 | 35.11 | 30.71 | 1,012 | 0.93 | 0.37 | 55.3 |
| 4/25/2015 21:13:24 | 35.43 | 31.03 | 1,012 | 0.93 | 0.37 | 55.3 |
| 4/25/2015 21:13:24 | 35.76 | 31.36 | 1,003 | 0.93 | 0.37 | 54.9 |
| 4/25/2015 21:13:24 | 36.09 | 31.69 | 1,012 | 0.92 | 0.36 | 55.3 |
| 4/25/2015 21:13:25 | 36.42 | 32.02 | 1,009 | 0.92 | 0.36 | 55.2 |
| 4/25/2015 21:13:25 | 36.75 | 32.35 | 1,009 | 0.92 | 0.36 | 55.2 |
| 4/25/2015 21:13:25 | 37.07 | 32.67 | 1,012 | 0.90 | 0.33 | 55.3 |
| 4/25/2015 21:13:26 | 37.40 | 33.00 | 1,012 | 0.91 | 0.35 | 55.3 |
| 4/25/2015 21:13:38 | 37.73 | 33.33 | 0 | 0.24 | 0.37 | 0.0 |
| 4/25/2015 21:13:39 | 38.06 | 33.66 | 47 | 0.18 | 0.33 | 2.6 |
| 4/25/2015 21:13:40 | 38.39 | 33.99 | 230 | 0.18 | 0.32 | 12.6 |
| 4/25/2015 21:13:40 | 38.71 | 34.31 | 230 | 0.18 | 0.32 | 12.6 |
| 4/25/2015 21:13:40 | 39.04 | 34.64 | 424 | 0.18 | 0.33 | 23.2 |
| 4/25/2015 21:13:41 | 39.37 | 34.97 | 613 | 0.18 | 0.33 | 33.5 |
| 4/25/2015 21:13:41 | 39.70 | 35.30 | 801 | 0.18 | 0.33 | 43.8 |
| 4/25/2015 21:13:42 | 40.03 | 35.63 | 801 | 0.18 | 0.33 | 43.8 |
| 4/25/2015 21:13:42 | 40.35 | 35.95 | 957 | 0.18 | 0.33 | 52.4 |
| 4/25/2015 21:13:42 | 40.68 | 36.28 | 963 | 0.18 | 0.33 | 52.7 |
| 4/25/2015 21:13:43 | 41.01 | 36.61 | 963 | 0.18 | 0.33 | 52.7 |
| 4/25/2015 21:13:43 | 41.34 | 36.94 | 958 | 0.18 | 0.32 | 52.4 |
| 4/25/2015 21:13:43 | 41.67 | 37.27 | 972 | 0.18 | 0.32 | 53.2 |
| 4/25/2015 21:13:44 | 41.99 | 37.59 | 975 | 0.18 | 0.33 | 53.3 |
| 4/25/2015 21:13:44 | 42.32 | 37.92 | 975 | 0.18 | 0.33 | 53.3 |
| 4/25/2015 21:13:44 | 42.65 | 38.25 | 969 | 0.18 | 0.32 | 53.0 |
| 4/25/2015 21:13:45 | 42.98 | 38.58 | 971 | 0.18 | 0.27 | 53.1 |
| 4/25/2015 21:13:45 | 43.31 | 38.91 | 971 | 0.18 | 0.27 | 53.1 |
| 4/25/2015 21:13:45 | 43.64 | 39.24 | 977 | 0.18 | 0.33 | 53.4 |
| 4/25/2015 21:13:46 | 43.96 | 39.56 | 971 | 0.18 | 0.33 | 53.1 |
| 4/25/2015 21:13:46 | 44.29 | 39.89 | 971 | 0.18 | 0.32 | 53.1 |
| 4/25/2015 21:13:47 | 44.62 | 40.22 | 971 | 0.18 | 0.32 | 53.1 |
| 4/25/2015 21:13:47 | 44.95 | 40.55 | 965 | 0.18 | 0.33 | 52.8 |
| 4/25/2015 21:13:47 | 45.28 | 40.88 | 968 | 0.21 | 0.33 | 53.0 |
| 4/25/2015 21:13:48 | 45.60 | 41.20 | 968 | 0.21 | 0.33 | 53.0 |
| 4/25/2015 21:13:48 | 45.93 | 41.53 | 963 | 0.18 | 0.33 | 52.6 |
| 4/25/2015 21:13:48 | 46.26 | 41.86 | 941 | 0.18 | 0.32 | 51.4 |
| 4/25/2015 21:13:49 | 46.59 | 42.19 | 941 | 0.18 | 0.33 | 51.4 |
| 4/25/2015 21:13:50 | 46.92 | 42.52 | 941 | 0.18 | 0.33 | 51.4 |
| 4/25/2015 21:13:50 | 47.24 | 42.84 | 951 | 0.18 | 0.32 | 52.0 |
| 4/25/2015 21:13:50 | 47.57 | 43.17 | 957 | 0.18 | 0.33 | 52.3 |
| 4/25/2015 21:13:51 | 47.90 | 43.50 | 957 | 0.18 | 0.33 | 52.3 |
| 4/25/2015 21:13:51 | 48.23 | 43.83 | 951 | 0.18 | 0.33 | 52.0 |
| 4/25/2015 21:13:51 | 48.56 | 44.16 | 957 | 0.18 | 0.33 | 52.3 |
| 4/25/2015 21:13:52 | 48.88 | 44.48 | 973 | 0.18 | 0.33 | 53.2 |
| 4/25/2015 21:13:52 | 49.21 | 44.81 | 973 | 0.18 | 0.33 | 53.2 |
| 4/25/2015 21:13:52 | 49.54 | 45.14 | 969 | 0.18 | 0.33 | 53.0 |
| 4/25/2015 21:13:53 | 49.87 | 45.47 | 963 | 0.16 | 0.35 | 52.6 |
| 4/25/2015 21:13:53 | 50.20 | 45.80 | 923 | 0.16 | 0.39 | 50.4 |
| 4/25/2015 21:14:15 | 50.53 | 46.13 | 44 | 2.50 | 0.34 | 2.4 |
| 4/25/2015 21:14:16 | 50.85 | 46.45 | 210 | 4.15 | 0.38 | 11.5 |
| 4/25/2015 21:14:18 | 51.18 | 46.78 | 304 | 3.90 | 0.40 | 16.6 |
| 4/25/2015 21:14:20 | 51.51 | 47.11 | 129 | 5.57 | 0.39 | 7.1 |
| 4/25/2015 21:14:22 | 51.84 | 47.44 | 205 | 3.75 | 0.38 | 11.2 |
| 4/25/2015 21:14:23 | 52.17 | 47.77 | 283 | 3.33 | 0.37 | 15.5 |
| 4/25/2015 21:14:24 | 52.49 | 48.09 | 324 | 3.87 | 0.39 | 17.7 |
| 4/25/2015 21:14:28 | 52.82 | 48.42 | 66 | 3.97 | 0.40 | 3.6 |
| 4/25/2015 21:14:42 | 53.15 | 48.75 | 15 | 3.60 | 0.40 | 0.8 |
| 4/25/2015 21:14:48 | 53.48 | 49.08 | 46 | 2.93 | 0.40 | 2.5 |
| 4/25/2015 21:14:54 | 53.81 | 49.41 | 54 | 3.19 | 0.38 | 3.0 |
| 4/25/2015 21:14:56 | 54.13 | 49.73 | 164 | 3.79 | 0.39 | 9.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 21:14:57 | 54.46 | 50.06 | 241 | 2.95 | 0.37 | 13.2 |
| 4/25/2015 | 21:15:13 | 54.79 | 50.39 | 0 | 2.79 | 0.38 | 0.0 |
| 4/25/2015 | 21:15:20 | 55.12 | 50.72 | 75 | 2.97 | 0.39 | 4.1 |
| 4/25/2015 | 21:15:24 | 55.45 | 51.05 | 71 | 3.27 | 0.38 | 3.9 |
| 4/25/2015 | 21:15:25 | 55.77 | 51.37 | 176 | 3.94 | 0.38 | 9.7 |
| 4/25/2015 | 21:15:28 | 56.10 | 51.70 | 173 | 5.00 | 0.40 | 9.5 |
| 4/25/2015 | 21:15:30 | 56.43 | 52.03 | 116 | 4.81 | 0.40 | 6.3 |
| 4/25/2015 | 21:17:10 | 56.76 | 52.36 | 99 | 5.36 | 0.40 | 5.4 |
| 4/25/2015 | 21:17:41 | 57.09 | 52.69 | 43 | 3.43 | 0.41 | 2.4 |
| 4/25/2015 | 21:17:52 | 57.41 | 53.01 | 33 | 2.89 | 0.40 | 1.8 |
| 4/25/2015 | 21:17:58 | 57.74 | 53.34 | 55 | 3.01 | 0.40 | 3.0 |
| 4/25/2015 | 21:18:04 | 58.07 | 53.67 | 76 | 3.12 | 0.40 | 4.2 |
| 4/25/2015 | 21:18:09 | 58.40 | 54.00 | 57 | 3.25 | 0.40 | 3.1 |
| 4/25/2015 | 21:18:15 | 58.73 | 54.33 | 66 | 3.43 | 0.40 | 3.6 |
| 4/25/2015 | 21:18:21 | 59.06 | 54.66 | 63 | 3.37 | 0.40 | 3.4 |
| 4/25/2015 | 21:18:28 | 59.38 | 54.98 | 58 | 3.58 | 0.40 | 3.2 |
| 4/25/2015 | 21:18:30 | 59.61 | 55.21 | 107 | 4.53 | 0.41 | 5.9 |

## H184 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 21:08:59

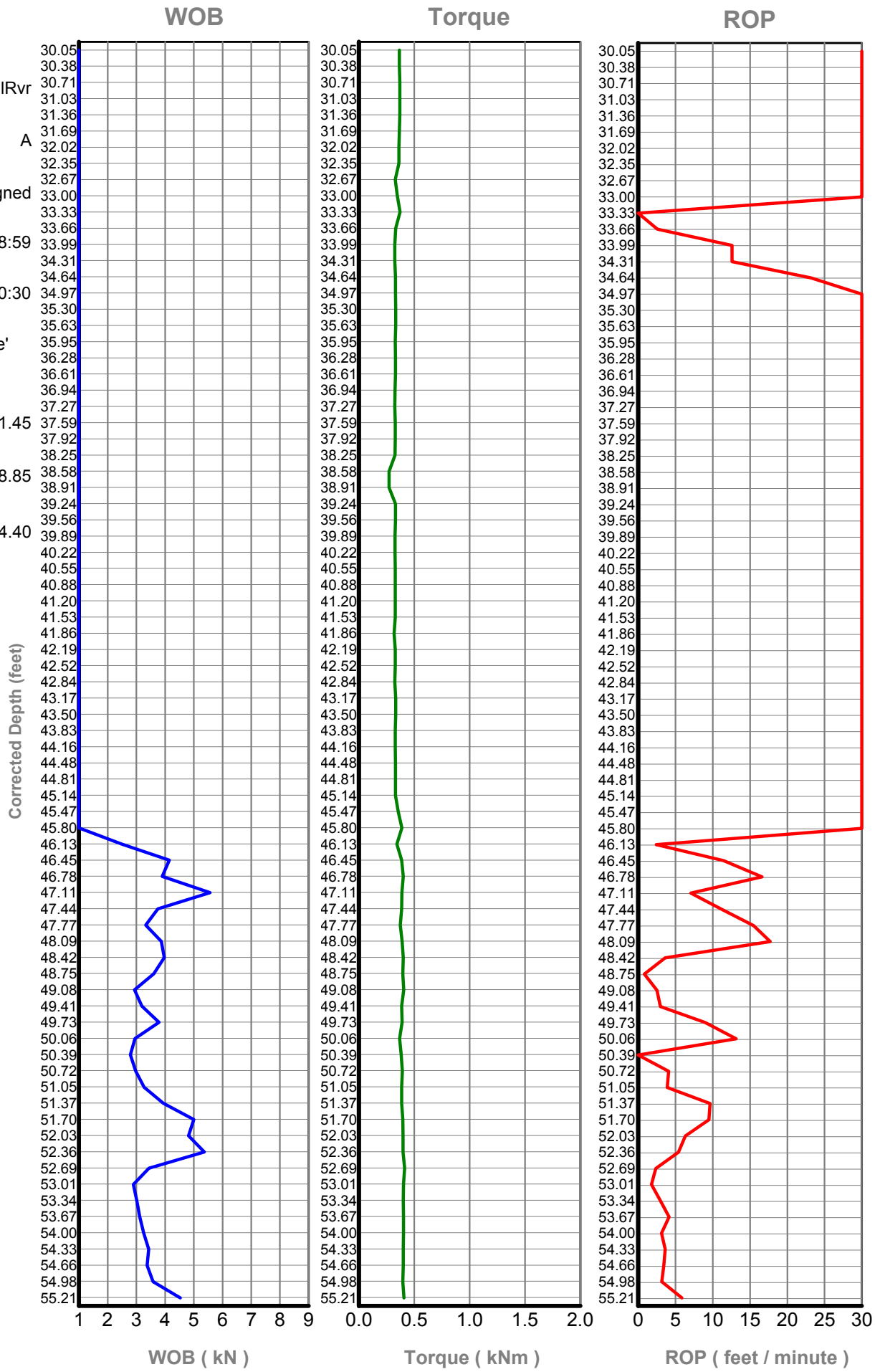
**End Date:**
4/25/2015 21:30:30

**Operator Note:**
'4.4 4.5 b Auto Complete'

**Northing:**
366,361.45

**Easting:**
250,418.85

**Tide (feet):**
4.40



## Hole: H185 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:23:28 | 34.45 | 30.15 | 569 | 1.79 | 0.16 | 31.1 |
| 4/25/2015 21:23:29 | 34.78 | 30.48 | 569 | 1.77 | 0.16 | 31.1 |
| 4/25/2015 21:23:29 | 35.11 | 30.81 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:30 | 35.43 | 31.13 | 572 | 1.77 | 0.16 | 31.3 |
| 4/25/2015 21:23:31 | 35.76 | 31.46 | 575 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 21:23:31 | 36.09 | 31.79 | 584 | 1.80 | 0.16 | 32.0 |
| 4/25/2015 21:23:32 | 36.42 | 32.12 | 575 | 1.81 | 0.16 | 31.5 |
| 4/25/2015 21:23:32 | 36.75 | 32.45 | 575 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 21:23:33 | 37.07 | 32.77 | 575 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 21:23:34 | 37.40 | 33.10 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 21:23:35 | 37.73 | 33.43 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 21:23:35 | 38.06 | 33.76 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 21:23:36 | 38.39 | 34.09 | 578 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 21:23:36 | 38.71 | 34.41 | 578 | 1.78 | 0.16 | 31.6 |
| 4/25/2015 21:23:37 | 39.04 | 34.74 | 576 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 21:23:38 | 39.37 | 35.07 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:38 | 39.70 | 35.40 | 576 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 21:23:39 | 40.03 | 35.73 | 576 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 21:23:39 | 40.35 | 36.05 | 582 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 21:23:40 | 40.68 | 36.38 | 578 | 1.77 | 0.16 | 31.6 |
| 4/25/2015 21:23:41 | 41.01 | 36.71 | 578 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 21:23:41 | 41.34 | 37.04 | 575 | 1.81 | 0.16 | 31.5 |
| 4/25/2015 21:23:42 | 41.67 | 37.37 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 21:23:42 | 41.99 | 37.69 | 575 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 21:23:43 | 42.32 | 38.02 | 572 | 1.77 | 0.16 | 31.3 |
| 4/25/2015 21:23:44 | 42.65 | 38.35 | 575 | 1.79 | 0.17 | 31.5 |
| 4/25/2015 21:23:44 | 42.98 | 38.68 | 579 | 1.81 | 0.16 | 31.6 |
| 4/25/2015 21:23:45 | 43.31 | 39.01 | 572 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 21:23:46 | 43.64 | 39.34 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:47 | 43.96 | 39.66 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 21:23:47 | 44.29 | 39.99 | 569 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 21:23:48 | 44.62 | 40.32 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:48 | 44.95 | 40.65 | 569 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 21:23:49 | 45.28 | 40.98 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:50 | 45.60 | 41.30 | 566 | 1.78 | 0.16 | 30.9 |
| 4/25/2015 21:23:50 | 45.93 | 41.63 | 566 | 1.79 | 0.16 | 31.0 |
| 4/25/2015 21:23:51 | 46.26 | 41.96 | 569 | 1.79 | 0.16 | 31.1 |
| 4/25/2015 21:23:51 | 46.59 | 42.29 | 569 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 21:23:52 | 46.92 | 42.62 | 573 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:53 | 47.24 | 42.94 | 576 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 21:23:53 | 47.57 | 43.27 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 21:23:54 | 47.90 | 43.60 | 576 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 21:23:54 | 48.23 | 43.93 | 563 | 1.80 | 0.16 | 30.8 |
| 4/25/2015 21:23:55 | 48.56 | 44.26 | 573 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 21:23:56 | 48.88 | 44.58 | 570 | 1.79 | 0.16 | 31.2 |
| 4/25/2015 21:23:57 | 49.21 | 44.91 | 567 | 1.79 | 0.16 | 31.0 |
| 4/25/2015 21:23:57 | 49.54 | 45.24 | 573 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 21:23:58 | 49.87 | 45.57 | 570 | 1.79 | 0.16 | 31.2 |
| 4/25/2015 21:23:58 | 50.20 | 45.90 | 567 | 1.79 | 0.16 | 31.0 |
| 4/25/2015 21:25:06 | 50.53 | 46.23 | 0 | 1.79 | 1.18 | 0.0 |
| 4/25/2015 21:25:23 | 50.85 | 46.55 | 84 | 1.73 | 1.17 | 4.6 |
| 4/25/2015 21:25:25 | 51.18 | 46.88 | 219 | 1.79 | 1.20 | 12.0 |
| 4/25/2015 21:25:27 | 51.51 | 47.21 | 200 | 1.81 | 1.20 | 10.9 |
| 4/25/2015 21:25:35 | 51.84 | 47.54 | 113 | 1.77 | 1.33 | 6.2 |
| 4/25/2015 21:25:36 | 52.17 | 47.87 | 235 | 1.78 | 1.22 | 12.8 |
| 4/25/2015 21:25:38 | 52.49 | 48.19 | 228 | 1.78 | 1.27 | 12.5 |
| 4/25/2015 21:25:49 | 52.82 | 48.52 | 30 | 1.77 | 1.26 | 1.7 |
| 4/25/2015 21:25:51 | 53.15 | 48.85 | 175 | 1.77 | 1.07 | 9.6 |
| 4/25/2015 21:25:52 | 53.48 | 49.18 | 257 | 1.76 | 1.01 | 14.1 |
| 4/25/2015 21:25:53 | 53.81 | 49.51 | 269 | 1.74 | 1.02 | 14.7 |
| 4/25/2015 21:26:17 | 54.13 | 49.83 | 94 | 1.77 | 1.07 | 5.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/25/2015 21:26:19 | 54.46 | 50.16 | 173 | 1.80 | 1.31 | 9.5 |
| 4/25/2015 21:26:22 | 54.79 | 50.49 | 154 | 1.78 | 1.09 | 8.4 |
| 4/25/2015 21:26:23 | 55.12 | 50.82 | 178 | 1.78 | 1.08 | 9.7 |
| 4/25/2015 21:26:25 | 55.45 | 51.15 | 207 | 1.80 | 1.08 | 11.3 |
| 4/25/2015 21:26:27 | 55.77 | 51.47 | 194 | 1.77 | 1.10 | 10.6 |
| 4/25/2015 21:26:29 | 56.10 | 51.80 | 179 | 1.77 | 1.13 | 9.8 |
| 4/25/2015 21:26:31 | 56.43 | 52.13 | 177 | 1.79 | 1.10 | 9.7 |
| 4/25/2015 21:26:33 | 56.76 | 52.46 | 177 | 1.77 | 1.08 | 9.7 |
| 4/25/2015 21:26:35 | 57.09 | 52.79 | 159 | 1.80 | 1.14 | 8.7 |
| 4/25/2015 21:26:38 | 57.41 | 53.11 | 127 | 1.79 | 1.19 | 7.0 |
| 4/25/2015 21:26:41 | 57.74 | 53.44 | 107 | 1.79 | 1.17 | 5.9 |
| 4/25/2015 21:26:45 | 58.07 | 53.77 | 104 | 1.79 | 1.15 | 5.7 |
| 4/25/2015 21:26:50 | 58.40 | 54.10 | 72 | 1.81 | 1.11 | 4.0 |
| 4/25/2015 21:26:57 | 58.73 | 54.43 | 49 | 1.81 | 1.15 | 2.7 |
| 4/25/2015 21:27:05 | 59.06 | 54.76 | 46 | 1.81 | 1.12 | 2.5 |
| 4/25/2015 21:27:12 | 59.38 | 55.08 | 43 | 1.81 | 1.09 | 2.4 |

## H185 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 21:21:31

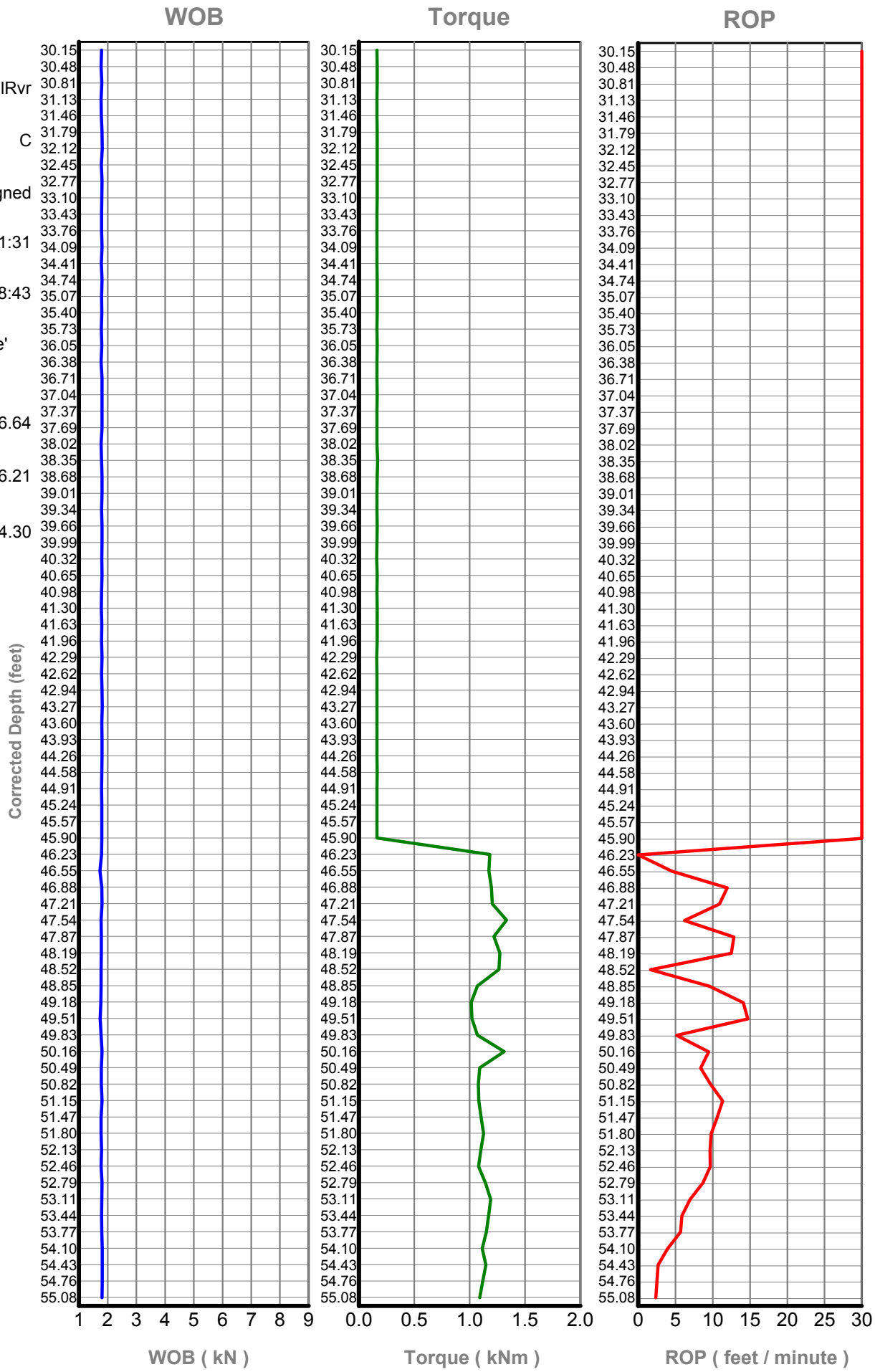
**End Date:**
4/25/2015 21:28:43

**Operator Note:**
'4.3 4.4 c Auto Complete'

**Northing:**
366,396.64

**Easting:**
250,466.21

**Tide (feet):**
4.30



## Hole: H186 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 21:14:14 | 34.45 | 30.05 | 552 | 1.80 | 0.16 | 30.2 |
| 4/25/2015 21:14:15 | 34.78 | 30.38 | 552 | 1.79 | 0.16 | 30.2 |
| 4/25/2015 21:14:15 | 35.11 | 30.71 | 556 | 1.80 | 0.16 | 30.4 |
| 4/25/2015 21:14:16 | 35.43 | 31.03 | 549 | 1.81 | 0.16 | 30.0 |
| 4/25/2015 21:14:17 | 35.76 | 31.36 | 543 | 1.79 | 0.16 | 29.7 |
| 4/25/2015 21:14:17 | 36.09 | 31.69 | 540 | 1.81 | 0.16 | 29.5 |
| 4/25/2015 21:14:18 | 36.42 | 32.02 | 540 | 1.83 | 0.16 | 29.5 |
| 4/25/2015 21:14:18 | 36.75 | 32.35 | 543 | 1.83 | 0.16 | 29.7 |
| 4/25/2015 21:14:19 | 37.07 | 32.67 | 543 | 1.79 | 0.16 | 29.7 |
| 4/25/2015 21:14:20 | 37.40 | 33.00 | 553 | 1.80 | 0.16 | 30.2 |
| 4/25/2015 21:14:20 | 37.73 | 33.33 | 559 | 1.81 | 0.16 | 30.6 |
| 4/25/2015 21:14:21 | 38.06 | 33.66 | 550 | 1.79 | 0.16 | 30.1 |
| 4/25/2015 21:14:22 | 38.39 | 33.99 | 556 | 1.79 | 0.16 | 30.4 |
| 4/25/2015 21:14:23 | 38.71 | 34.31 | 549 | 1.79 | 0.16 | 30.0 |
| 4/25/2015 21:14:23 | 39.04 | 34.64 | 543 | 1.79 | 0.16 | 29.7 |
| 4/25/2015 21:14:24 | 39.37 | 34.97 | 552 | 1.79 | 0.16 | 30.2 |
| 4/25/2015 21:14:25 | 39.70 | 35.30 | 549 | 1.85 | 0.16 | 30.0 |
| 4/25/2015 21:14:25 | 40.03 | 35.63 | 546 | 1.81 | 0.16 | 29.9 |
| 4/25/2015 21:14:26 | 40.35 | 35.95 | 552 | 1.81 | 0.16 | 30.2 |
| 4/25/2015 21:14:26 | 40.68 | 36.28 | 549 | 1.83 | 0.16 | 30.0 |
| 4/25/2015 21:14:27 | 41.01 | 36.61 | 543 | 1.80 | 0.16 | 29.7 |
| 4/25/2015 21:14:28 | 41.34 | 36.94 | 553 | 1.82 | 0.16 | 30.2 |
| 4/25/2015 21:14:28 | 41.67 | 37.27 | 549 | 1.79 | 0.16 | 30.0 |
| 4/25/2015 21:14:29 | 41.99 | 37.59 | 549 | 1.81 | 0.16 | 30.0 |
| 4/25/2015 21:14:30 | 42.32 | 37.92 | 552 | 1.79 | 0.17 | 30.2 |
| 4/25/2015 21:14:30 | 42.65 | 38.25 | 546 | 1.79 | 0.16 | 29.9 |
| 4/25/2015 21:14:31 | 42.98 | 38.58 | 546 | 1.82 | 0.17 | 29.9 |
| 4/25/2015 21:14:31 | 43.31 | 38.91 | 540 | 1.82 | 0.17 | 29.5 |
| 4/25/2015 21:14:32 | 43.64 | 39.24 | 543 | 1.83 | 0.16 | 29.7 |
| 4/25/2015 21:14:33 | 43.96 | 39.56 | 546 | 1.81 | 0.16 | 29.9 |
| 4/25/2015 21:14:34 | 44.29 | 39.89 | 543 | 1.81 | 0.17 | 29.7 |
| 4/25/2015 21:14:34 | 44.62 | 40.22 | 549 | 1.82 | 0.17 | 30.0 |
| 4/25/2015 21:14:35 | 44.95 | 40.55 | 546 | 1.80 | 0.17 | 29.9 |
| 4/25/2015 21:14:36 | 45.28 | 40.88 | 543 | 1.81 | 0.17 | 29.7 |
| 4/25/2015 21:14:36 | 45.60 | 41.20 | 549 | 1.79 | 0.17 | 30.0 |
| 4/25/2015 21:14:37 | 45.93 | 41.53 | 543 | 1.81 | 0.16 | 29.7 |
| 4/25/2015 21:14:38 | 46.26 | 41.86 | 540 | 1.80 | 0.16 | 29.6 |
| 4/25/2015 21:14:38 | 46.59 | 42.19 | 544 | 1.79 | 0.19 | 29.7 |
| 4/25/2015 21:14:39 | 46.92 | 42.52 | 544 | 1.79 | 0.16 | 29.7 |
| 4/25/2015 21:14:39 | 47.24 | 42.84 | 550 | 1.80 | 0.16 | 30.1 |
| 4/25/2015 21:14:40 | 47.57 | 43.17 | 553 | 1.79 | 0.17 | 30.2 |
| 4/25/2015 21:14:41 | 47.90 | 43.50 | 547 | 1.81 | 0.17 | 29.9 |
| 4/25/2015 21:14:41 | 48.23 | 43.83 | 547 | 1.80 | 0.16 | 29.9 |
| 4/25/2015 21:14:42 | 48.56 | 44.16 | 544 | 1.79 | 0.17 | 29.7 |
| 4/25/2015 21:14:43 | 48.88 | 44.48 | 544 | 1.81 | 0.17 | 29.7 |
| 4/25/2015 21:14:44 | 49.21 | 44.81 | 550 | 1.80 | 0.17 | 30.1 |
| 4/25/2015 21:14:44 | 49.54 | 45.14 | 541 | 1.82 | 0.17 | 29.6 |
| 4/25/2015 21:15:26 | 49.87 | 45.47 | 0 | 1.77 | 1.23 | 0.0 |
| 4/25/2015 21:15:31 | 50.20 | 45.80 | 0 | 1.80 | 1.17 | 0.0 |
| 4/25/2015 21:15:48 | 50.53 | 46.13 | 24 | 1.77 | 1.22 | 1.3 |
| 4/25/2015 21:15:50 | 50.85 | 46.45 | 174 | 1.79 | 1.24 | 9.5 |
| 4/25/2015 21:15:51 | 51.18 | 46.78 | 222 | 1.78 | 1.25 | 12.1 |
| 4/25/2015 21:16:07 | 51.51 | 47.11 | 74 | 1.74 | 1.18 | 4.0 |
| 4/25/2015 21:16:09 | 51.84 | 47.44 | 215 | 1.79 | 1.08 | 11.8 |
| 4/25/2015 21:16:10 | 52.17 | 47.77 | 234 | 1.74 | 1.18 | 12.8 |
| 4/25/2015 21:16:40 | 52.49 | 48.09 | 30 | 1.74 | 1.13 | 1.6 |
| 4/25/2015 21:16:41 | 52.82 | 48.42 | 123 | 1.76 | 1.07 | 6.7 |
| 4/25/2015 21:16:43 | 53.15 | 48.75 | 223 | 1.74 | 1.18 | 12.2 |
| 4/25/2015 21:16:44 | 53.48 | 49.08 | 211 | 1.76 | 1.15 | 11.5 |
| 4/25/2015 21:16:46 | 53.81 | 49.41 | 217 | 1.76 | 1.14 | 11.9 |
| 4/25/2015 21:17:18 | 54.13 | 49.73 | 102 | 1.75 | 1.12 | 5.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/25/2015 21:17:20 | 54.46 | 50.06 | 200 | 1.77 | 1.18 | 10.9 |
| 4/25/2015 21:17:26 | 54.79 | 50.39 | 26 | 1.79 | 1.45 | 1.4 |
| 4/25/2015 21:17:35 | 55.12 | 50.72 | 66 | 1.77 | 1.17 | 3.6 |
| 4/25/2015 21:17:42 | 55.45 | 51.05 | 46 | 1.79 | 1.10 | 2.5 |
| 4/25/2015 21:17:50 | 55.77 | 51.37 | 40 | 1.80 | 1.13 | 2.2 |
| 4/25/2015 21:17:59 | 56.10 | 51.70 | 40 | 1.80 | 1.13 | 2.2 |
| 4/25/2015 21:18:02 | 56.21 | 51.81 | 41 | 1.80 | 1.12 | 2.2 |

## H186 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 21:11:17

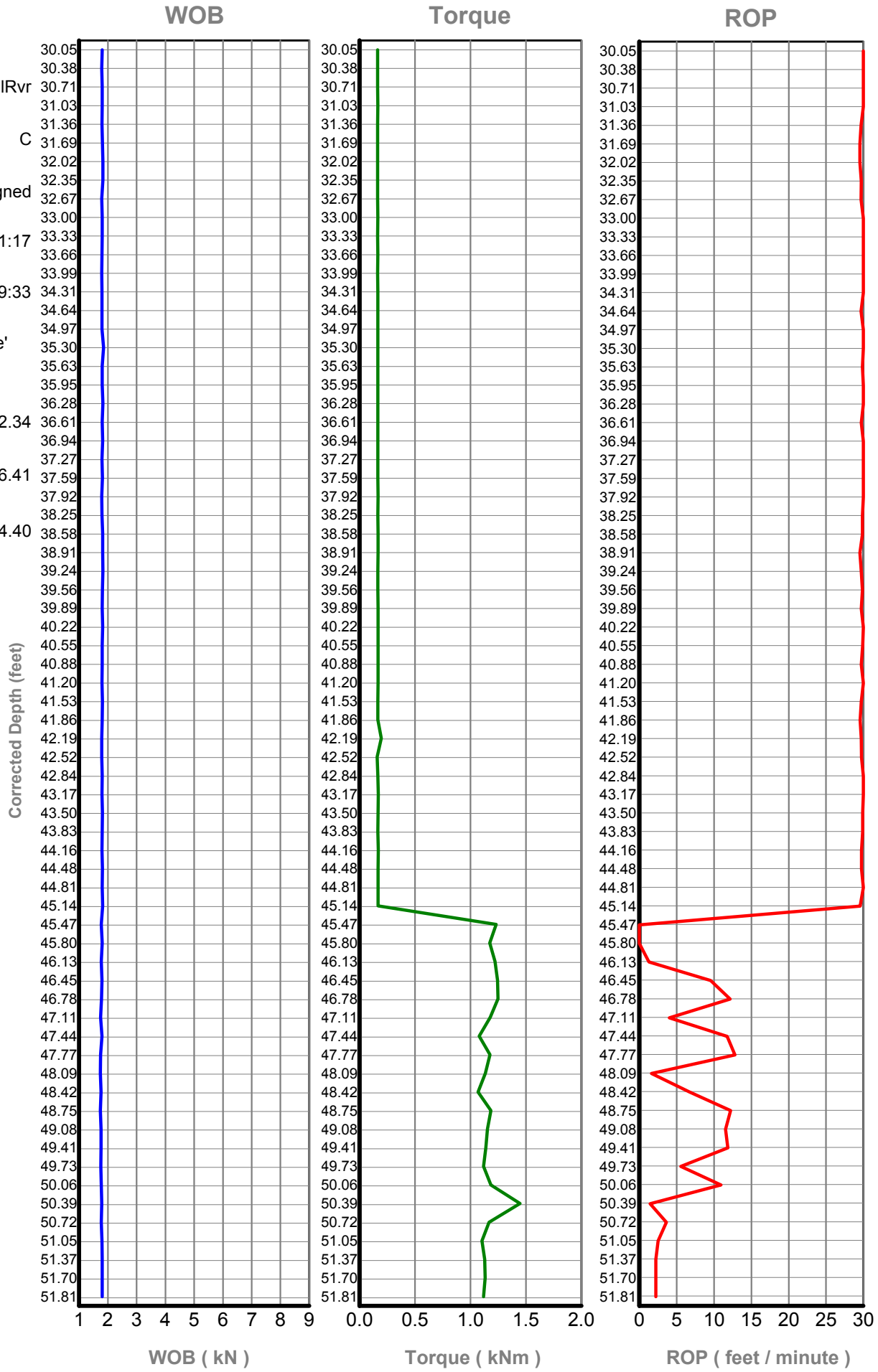
**End Date:**
4/25/2015 21:19:33

**Operator Note:**
'4.4 4.5 c Auto Complete'

**Northing:**
366,442.34

**Easting:**
250,526.41

**Tide (feet):**
4.40



## Hole: H187 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:19:45 | 30.84 | 30.24 | 1,052 | 0.34 | 0.31 | 57.5 |
| 4/25/2015 13:19:46 | 31.17 | 30.57 | 1,056 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:19:46 | 31.50 | 30.90 | 1,059 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 13:19:47 | 31.82 | 31.22 | 1,059 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 13:19:47 | 32.15 | 31.55 | 1,053 | 0.34 | 0.32 | 57.6 |
| 4/25/2015 13:19:47 | 32.48 | 31.88 | 1,053 | 0.34 | 0.32 | 57.6 |
| 4/25/2015 13:19:47 | 32.81 | 32.21 | 1,062 | 0.33 | 0.32 | 58.1 |
| 4/25/2015 13:19:48 | 33.14 | 32.54 | 1,065 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 13:19:48 | 33.46 | 32.86 | 1,065 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 13:19:48 | 33.79 | 33.19 | 1,058 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 13:19:49 | 34.12 | 33.52 | 1,058 | 0.36 | 0.32 | 57.9 |
| 4/25/2015 13:19:49 | 34.45 | 33.85 | 1,058 | 0.36 | 0.32 | 57.9 |
| 4/25/2015 13:19:49 | 34.78 | 34.18 | 1,067 | 0.33 | 0.32 | 58.3 |
| 4/25/2015 13:19:50 | 35.11 | 34.51 | 1,058 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 13:19:50 | 35.43 | 34.83 | 1,058 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 13:19:50 | 35.76 | 35.16 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:19:51 | 36.09 | 35.49 | 1,049 | 0.33 | 0.32 | 57.3 |
| 4/25/2015 13:19:51 | 36.42 | 35.82 | 1,049 | 0.33 | 0.32 | 57.3 |
| 4/25/2015 13:19:51 | 36.75 | 36.15 | 1,058 | 0.34 | 0.32 | 57.9 |
| 4/25/2015 13:19:52 | 37.07 | 36.47 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 13:19:52 | 37.40 | 36.80 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 13:19:52 | 37.73 | 37.13 | 1,028 | 0.33 | 0.32 | 56.2 |
| 4/25/2015 13:19:53 | 38.06 | 37.46 | 1,028 | 0.34 | 0.32 | 56.2 |
| 4/25/2015 13:19:53 | 38.39 | 37.79 | 1,028 | 0.34 | 0.32 | 56.2 |
| 4/25/2015 13:19:53 | 38.71 | 38.11 | 1,045 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 13:19:54 | 39.04 | 38.44 | 1,040 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 13:19:54 | 39.37 | 38.77 | 1,040 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 13:19:54 | 39.70 | 39.10 | 1,037 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:19:55 | 40.03 | 39.43 | 1,037 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:19:55 | 40.35 | 39.75 | 1,034 | 0.35 | 0.32 | 56.5 |
| 4/25/2015 13:19:55 | 40.68 | 40.08 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 13:19:56 | 41.01 | 40.41 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 13:19:56 | 41.34 | 40.74 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 13:19:57 | 41.67 | 41.07 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:19:57 | 41.99 | 41.39 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:19:57 | 42.32 | 41.72 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 13:19:58 | 42.65 | 42.05 | 1,055 | 0.23 | 0.33 | 57.7 |
| 4/25/2015 13:20:10 | 42.98 | 42.38 | 29 | 0.33 | 0.33 | 1.6 |
| 4/25/2015 13:20:11 | 43.31 | 42.71 | 29 | 0.33 | 0.33 | 1.6 |
| 4/25/2015 13:20:11 | 43.64 | 43.04 | 223 | 0.33 | 0.32 | 12.2 |
| 4/25/2015 13:20:11 | 43.96 | 43.36 | 429 | 0.33 | 0.32 | 23.4 |
| 4/25/2015 13:20:12 | 44.29 | 43.69 | 429 | 0.33 | 0.32 | 23.4 |
| 4/25/2015 13:20:12 | 44.62 | 44.02 | 631 | 0.35 | 0.32 | 34.5 |
| 4/25/2015 13:20:12 | 44.95 | 44.35 | 840 | 0.34 | 0.32 | 46.0 |
| 4/25/2015 13:20:13 | 45.28 | 44.68 | 840 | 0.34 | 0.32 | 46.0 |
| 4/25/2015 13:20:13 | 45.60 | 45.00 | 1,015 | 0.34 | 0.34 | 55.5 |
| 4/25/2015 13:20:13 | 45.93 | 45.33 | 1,020 | 0.33 | 0.33 | 55.8 |
| 4/25/2015 13:20:14 | 46.26 | 45.66 | 1,020 | 0.33 | 0.33 | 55.8 |
| 4/25/2015 13:20:14 | 46.59 | 45.99 | 1,020 | 0.32 | 0.35 | 55.8 |
| 4/25/2015 13:20:17 | 46.92 | 46.32 | 0 | 2.37 | 0.34 | 0.0 |
| 4/25/2015 13:20:31 | 47.24 | 46.64 | 6 | 3.43 | 0.41 | 0.3 |
| 4/25/2015 13:20:38 | 47.57 | 46.97 | 88 | 3.05 | 0.37 | 4.8 |
| 4/25/2015 13:20:39 | 47.90 | 47.30 | 191 | 3.88 | 0.36 | 10.4 |
| 4/25/2015 13:20:43 | 48.23 | 47.63 | 0 | 3.56 | 0.37 | 0.0 |
| 4/25/2015 13:20:45 | 48.56 | 47.96 | 238 | 2.77 | 0.36 | 13.0 |
| 4/25/2015 13:20:46 | 48.88 | 48.28 | 353 | 2.33 | 0.34 | 19.3 |
| 4/25/2015 13:20:51 | 49.21 | 48.61 | 0 | 2.08 | 0.33 | 0.0 |
| 4/25/2015 13:20:52 | 49.54 | 48.94 | 123 | 2.17 | 0.35 | 6.7 |
| 4/25/2015 13:20:52 | 49.87 | 49.27 | 123 | 2.17 | 0.35 | 6.7 |
| 4/25/2015 13:20:52 | 50.20 | 49.60 | 274 | 2.34 | 0.35 | 15.0 |
| 4/25/2015 13:20:53 | 50.53 | 49.93 | 527 | 3.07 | 0.30 | 28.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:20:54 | 50.85 | 50.25 | 624 | 2.99 | 0.36 | 34.1 |
| 4/25/2015 | 13:20:54 | 51.18 | 50.58 | 619 | 2.60 | 0.36 | 33.8 |
| 4/25/2015 | 13:20:59 | 51.51 | 50.91 | 14 | 3.04 | 0.40 | 0.8 |
| 4/25/2015 | 13:21:23 | 51.84 | 51.24 | 29 | 4.28 | 0.40 | 1.6 |
| 4/25/2015 | 13:21:28 | 52.17 | 51.57 | 60 | 3.10 | 0.40 | 3.3 |
| 4/25/2015 | 13:21:35 | 52.49 | 51.89 | 52 | 3.12 | 0.41 | 2.8 |
| 4/25/2015 | 13:21:40 | 52.82 | 52.22 | 75 | 2.90 | 0.37 | 4.1 |
| 4/25/2015 | 13:21:45 | 53.15 | 52.55 | 41 | 2.84 | 0.41 | 2.2 |
| 4/25/2015 | 13:21:54 | 53.48 | 52.88 | 44 | 2.95 | 0.41 | 2.4 |
| 4/25/2015 | 13:22:02 | 53.81 | 53.21 | 49 | 3.24 | 0.41 | 2.7 |
| 4/25/2015 | 13:22:07 | 54.04 | 53.44 | 45 | 3.48 | 0.41 | 2.5 |

## H187 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:18:32

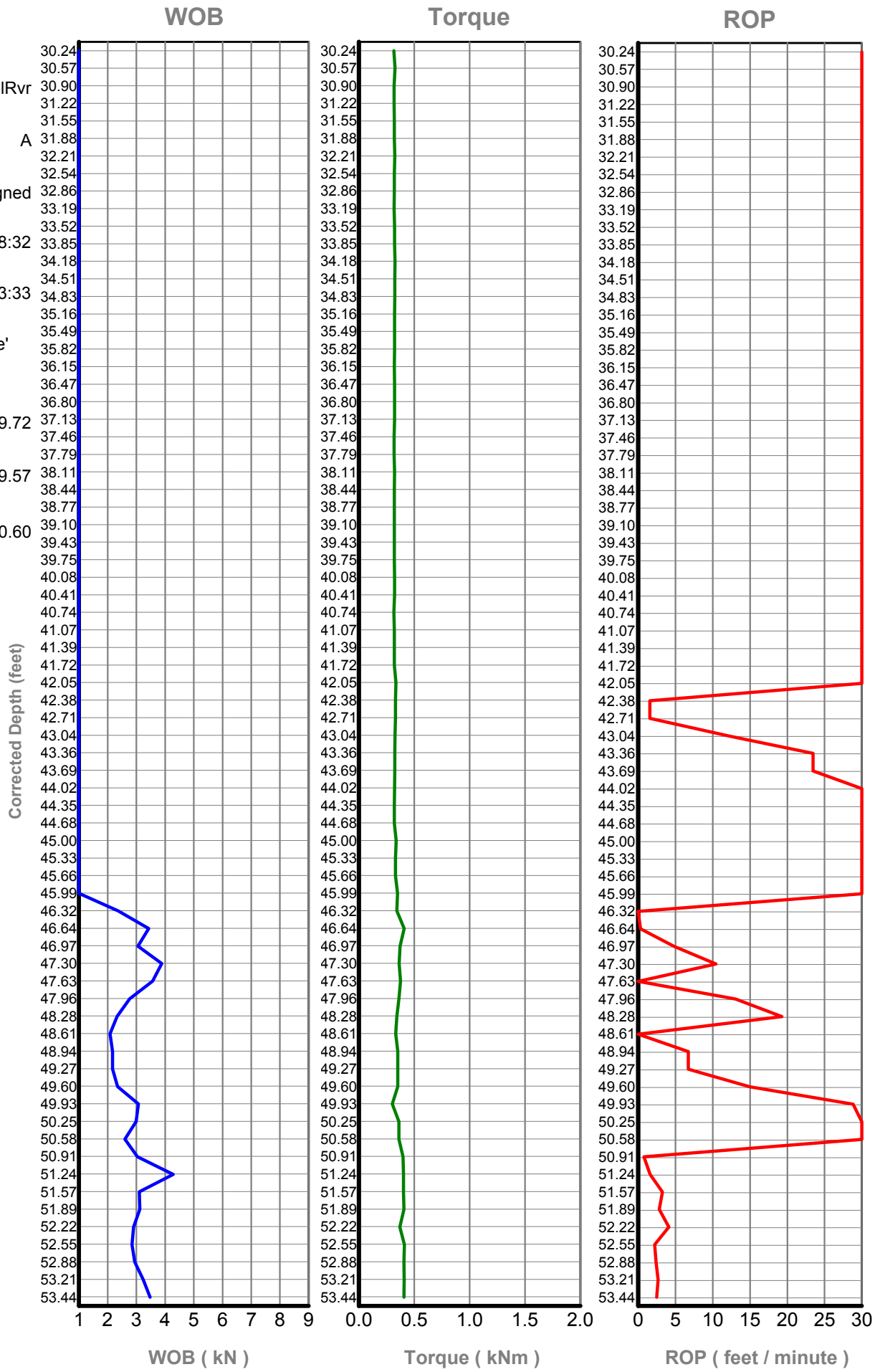
**End Date:**
4/25/2015 13:23:33

**Operator Note:**
'0.6 0.7 b Auto Complete'

**Northing:**
366,509.72

**Easting:**
250,599.57

**Tide (feet):**
0.60



## Hole: H188 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:06:30 | 30.84 | 30.14 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/25/2015 13:06:30 | 31.17 | 30.47 | 1,043 | 0.30 | 0.32 | 57.1 |
| 4/25/2015 13:06:31 | 31.50 | 30.80 | 1,043 | 0.30 | 0.32 | 57.1 |
| 4/25/2015 13:06:31 | 31.82 | 31.12 | 1,052 | 0.32 | 0.31 | 57.5 |
| 4/25/2015 13:06:31 | 32.15 | 31.45 | 1,036 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:06:32 | 32.48 | 31.78 | 1,036 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:06:32 | 32.81 | 32.11 | 1,036 | 0.32 | 0.31 | 56.7 |
| 4/25/2015 13:06:32 | 33.14 | 32.44 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 13:06:33 | 33.46 | 32.76 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 13:06:33 | 33.79 | 33.09 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:06:33 | 34.12 | 33.42 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 13:06:34 | 34.45 | 33.75 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 13:06:34 | 34.78 | 34.08 | 1,057 | 0.32 | 0.32 | 57.8 |
| 4/25/2015 13:06:34 | 35.11 | 34.41 | 1,068 | 0.32 | 0.31 | 58.4 |
| 4/25/2015 13:06:35 | 35.43 | 34.73 | 1,068 | 0.32 | 0.31 | 58.4 |
| 4/25/2015 13:06:35 | 35.76 | 35.06 | 1,068 | 0.33 | 0.32 | 58.4 |
| 4/25/2015 13:06:36 | 36.09 | 35.39 | 1,068 | 0.33 | 0.32 | 58.4 |
| 4/25/2015 13:06:36 | 36.42 | 35.72 | 1,062 | 0.33 | 0.32 | 58.1 |
| 4/25/2015 13:06:36 | 36.75 | 36.05 | 1,065 | 0.33 | 0.32 | 58.3 |
| 4/25/2015 13:06:37 | 37.07 | 36.37 | 1,065 | 0.33 | 0.32 | 58.3 |
| 4/25/2015 13:06:37 | 37.40 | 36.70 | 1,055 | 0.32 | 0.31 | 57.7 |
| 4/25/2015 13:06:37 | 37.73 | 37.03 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/25/2015 13:06:38 | 38.06 | 37.36 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/25/2015 13:06:38 | 38.39 | 37.69 | 1,073 | 0.32 | 0.31 | 58.7 |
| 4/25/2015 13:06:38 | 38.71 | 38.01 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 13:06:39 | 39.04 | 38.34 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 13:06:39 | 39.37 | 38.67 | 1,055 | 0.32 | 0.33 | 57.7 |
| 4/25/2015 13:06:39 | 39.70 | 39.00 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 13:06:40 | 40.03 | 39.33 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 13:06:40 | 40.35 | 39.65 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 13:06:40 | 40.68 | 39.98 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 13:06:40 | 41.01 | 40.31 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/25/2015 13:06:41 | 41.34 | 40.64 | 1,064 | 0.32 | 0.32 | 58.2 |
| 4/25/2015 13:06:41 | 41.67 | 40.97 | 1,064 | 0.32 | 0.32 | 58.2 |
| 4/25/2015 13:06:41 | 41.99 | 41.29 | 1,057 | 0.32 | 0.32 | 57.8 |
| 4/25/2015 13:06:42 | 42.32 | 41.62 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/25/2015 13:06:42 | 42.65 | 41.95 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/25/2015 13:06:42 | 42.98 | 42.28 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 13:06:43 | 43.31 | 42.61 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 13:06:43 | 43.64 | 42.94 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 13:06:43 | 43.96 | 43.26 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 13:06:44 | 44.29 | 43.59 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:06:44 | 44.62 | 43.92 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 13:06:44 | 44.95 | 44.25 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 13:06:45 | 45.28 | 44.58 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 13:06:46 | 45.60 | 44.90 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 13:06:46 | 45.93 | 45.23 | 1,040 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 13:06:46 | 46.26 | 45.56 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 13:06:47 | 46.59 | 45.89 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 13:06:47 | 46.92 | 46.22 | 1,047 | 0.33 | 0.33 | 57.2 |
| 4/25/2015 13:06:47 | 47.24 | 46.54 | 1,038 | 0.31 | 0.38 | 56.7 |
| 4/25/2015 13:06:57 | 47.57 | 46.87 | 6 | 2.66 | 0.35 | 0.3 |
| 4/25/2015 13:06:57 | 47.90 | 47.20 | 138 | 2.22 | 0.35 | 7.6 |
| 4/25/2015 13:06:58 | 48.23 | 47.53 | 285 | 2.58 | 0.37 | 15.6 |
| 4/25/2015 13:06:59 | 48.56 | 47.86 | 457 | 3.24 | 0.40 | 25.0 |
| 4/25/2015 13:07:01 | 48.88 | 48.18 | 199 | 3.39 | 0.40 | 10.9 |
| 4/25/2015 13:07:02 | 49.21 | 48.51 | 158 | 3.06 | 0.38 | 8.7 |
| 4/25/2015 13:07:03 | 49.54 | 48.84 | 228 | 3.42 | 0.38 | 12.5 |
| 4/25/2015 13:07:05 | 49.87 | 49.17 | 298 | 3.03 | 0.38 | 16.3 |
| 4/25/2015 13:07:09 | 50.20 | 49.50 | 0 | 2.91 | 0.38 | 0.0 |
| 4/25/2015 13:07:10 | 50.53 | 49.83 | 154 | 2.36 | 0.36 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:07:11 | 50.85 | 50.15 | 263 | 2.34 | 0.36 | 14.4 |
| 4/25/2015 | 13:07:11 | 51.18 | 50.48 | 383 | 2.74 | 0.36 | 20.9 |
| 4/25/2015 | 13:07:12 | 51.51 | 50.81 | 509 | 2.74 | 0.38 | 27.9 |
| 4/25/2015 | 13:07:13 | 51.84 | 51.14 | 486 | 2.41 | 0.36 | 26.6 |
| 4/25/2015 | 13:07:13 | 52.17 | 51.47 | 486 | 2.19 | 0.37 | 26.6 |
| 4/25/2015 | 13:07:14 | 52.49 | 51.79 | 517 | 2.27 | 0.35 | 28.2 |
| 4/25/2015 | 13:07:14 | 52.82 | 52.12 | 535 | 2.31 | 0.36 | 29.3 |
| 4/25/2015 | 13:07:15 | 53.15 | 52.45 | 537 | 3.58 | 0.39 | 29.4 |
| 4/25/2015 | 13:07:20 | 53.48 | 52.78 | 41 | 3.24 | 0.40 | 2.2 |
| 4/25/2015 | 13:13:04 | 53.81 | 53.11 | 6 | 3.21 | 0.40 | 0.3 |
| 4/25/2015 | 13:13:12 | 54.13 | 53.43 | 46 | 2.95 | 0.39 | 2.5 |
| 4/25/2015 | 13:13:19 | 54.46 | 53.76 | 57 | 3.39 | 0.40 | 3.1 |
| 4/25/2015 | 13:13:26 | 54.79 | 54.09 | 49 | 3.00 | 0.40 | 2.7 |
| 4/25/2015 | 13:13:32 | 55.12 | 54.42 | 75 | 3.07 | 0.41 | 4.1 |
| 4/25/2015 | 13:13:37 | 55.45 | 54.75 | 69 | 3.31 | 0.40 | 3.8 |
| 4/25/2015 | 13:13:43 | 55.77 | 55.07 | 58 | 3.81 | 0.40 | 3.2 |
| 4/25/2015 | 13:13:48 | 56.10 | 55.40 | 72 | 4.35 | 0.40 | 3.9 |
| 4/25/2015 | 13:14:44 | 56.43 | 55.73 | 57 | 3.45 | 0.40 | 3.1 |
| 4/25/2015 | 13:15:22 | 56.76 | 56.06 | 63 | 3.28 | 0.40 | 3.5 |
| 4/25/2015 | 13:15:26 | 56.96 | 56.26 | 66 | 3.43 | 0.41 | 3.6 |

## H188 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:04:29

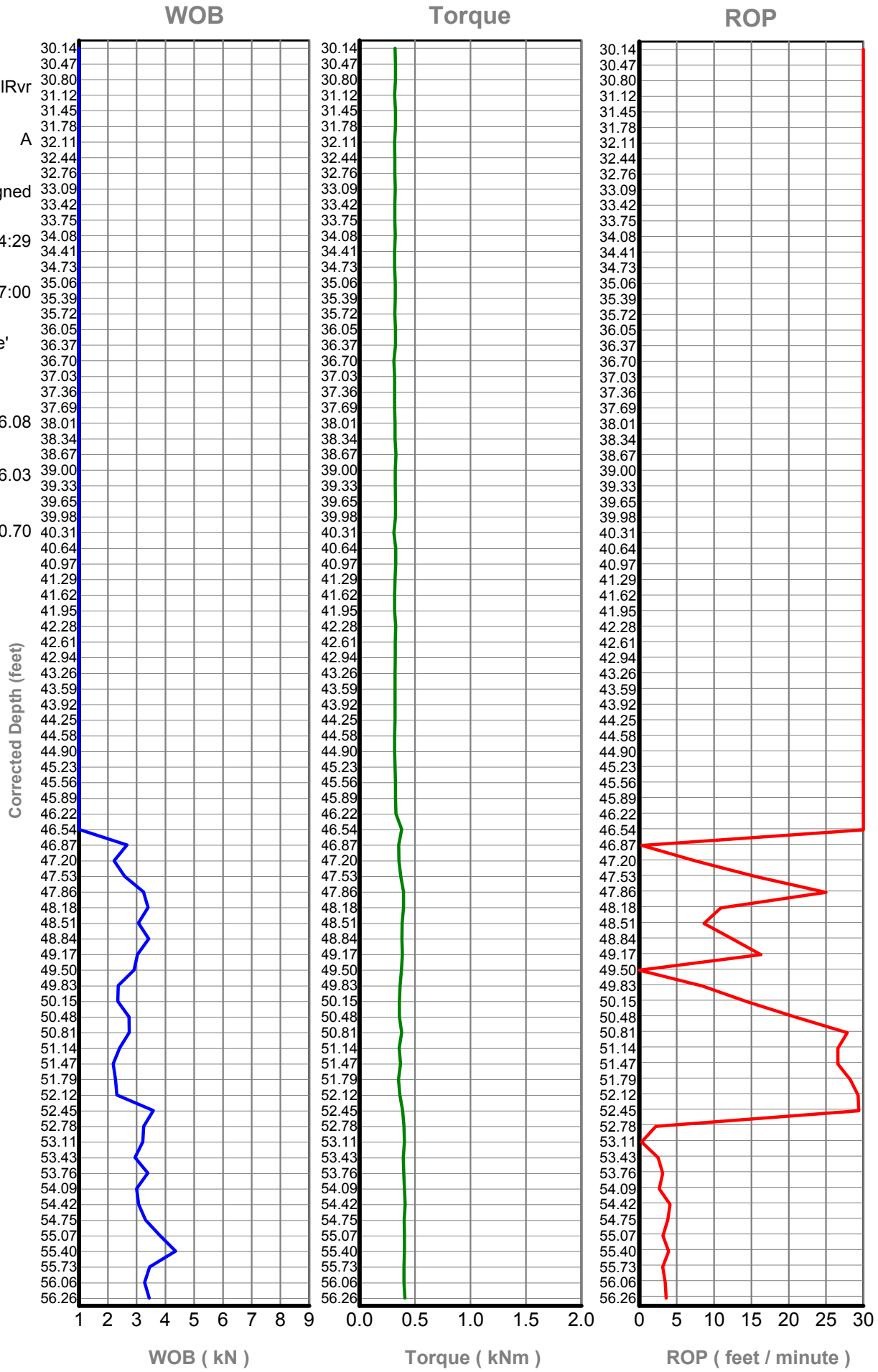
**End Date:**
4/25/2015 13:17:00

**Operator Note:**
'0.7 0.8 b Auto Complete'

**Northing:**
366,546.08

**Easting:**
250,646.03

**Tide (feet):**
0.70



## Hole: H189 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:08:14 | 30.84 | 30.14 | 590 | 1.74 | 0.30 | 32.2 |
| 4/25/2015 13:08:15 | 31.17 | 30.47 | 593 | 1.77 | 0.30 | 32.4 |
| 4/25/2015 13:08:15 | 31.50 | 30.80 | 589 | 1.79 | 0.30 | 32.2 |
| 4/25/2015 13:08:16 | 31.82 | 31.12 | 589 | 1.78 | 0.30 | 32.2 |
| 4/25/2015 13:08:17 | 32.15 | 31.45 | 590 | 1.77 | 0.30 | 32.3 |
| 4/25/2015 13:08:17 | 32.48 | 31.78 | 571 | 1.74 | 0.30 | 31.2 |
| 4/25/2015 13:08:18 | 32.81 | 32.11 | 571 | 1.75 | 0.30 | 31.2 |
| 4/25/2015 13:08:18 | 33.14 | 32.44 | 586 | 1.77 | 0.30 | 32.0 |
| 4/25/2015 13:08:19 | 33.46 | 32.76 | 583 | 1.75 | 0.30 | 31.9 |
| 4/25/2015 13:08:19 | 33.79 | 33.09 | 583 | 1.76 | 0.30 | 31.9 |
| 4/25/2015 13:08:20 | 34.12 | 33.42 | 598 | 1.76 | 0.30 | 32.7 |
| 4/25/2015 13:08:21 | 34.45 | 33.75 | 584 | 1.75 | 0.29 | 31.9 |
| 4/25/2015 13:08:21 | 34.78 | 34.08 | 587 | 1.75 | 0.29 | 32.1 |
| 4/25/2015 13:08:22 | 35.11 | 34.41 | 590 | 1.75 | 0.30 | 32.3 |
| 4/25/2015 13:08:23 | 35.43 | 34.73 | 584 | 1.76 | 0.30 | 31.9 |
| 4/25/2015 13:08:24 | 35.76 | 35.06 | 584 | 1.77 | 0.30 | 31.9 |
| 4/25/2015 13:08:24 | 36.09 | 35.39 | 577 | 1.77 | 0.30 | 31.6 |
| 4/25/2015 13:08:25 | 36.42 | 35.72 | 577 | 1.77 | 0.30 | 31.6 |
| 4/25/2015 13:08:25 | 36.75 | 36.05 | 578 | 1.76 | 0.30 | 31.6 |
| 4/25/2015 13:08:26 | 37.07 | 36.37 | 581 | 1.76 | 0.30 | 31.8 |
| 4/25/2015 13:08:26 | 37.40 | 36.70 | 584 | 1.76 | 0.30 | 31.9 |
| 4/25/2015 13:08:27 | 37.73 | 37.03 | 594 | 1.76 | 0.29 | 32.5 |
| 4/25/2015 13:08:28 | 38.06 | 37.36 | 587 | 1.76 | 0.30 | 32.1 |
| 4/25/2015 13:08:28 | 38.39 | 37.69 | 583 | 1.76 | 0.29 | 31.9 |
| 4/25/2015 13:08:29 | 38.71 | 38.01 | 584 | 1.77 | 0.30 | 31.9 |
| 4/25/2015 13:08:29 | 39.04 | 38.34 | 584 | 1.78 | 0.30 | 31.9 |
| 4/25/2015 13:08:30 | 39.37 | 38.67 | 578 | 1.76 | 0.29 | 31.6 |
| 4/25/2015 13:08:31 | 39.70 | 39.00 | 588 | 1.76 | 0.29 | 32.1 |
| 4/25/2015 13:08:31 | 40.03 | 39.33 | 584 | 1.76 | 0.30 | 31.9 |
| 4/25/2015 13:08:32 | 40.35 | 39.65 | 587 | 1.76 | 0.29 | 32.1 |
| 4/25/2015 13:08:33 | 40.68 | 39.98 | 587 | 1.76 | 0.29 | 32.1 |
| 4/25/2015 13:08:33 | 41.01 | 40.31 | 577 | 1.77 | 0.30 | 31.6 |
| 4/25/2015 13:08:34 | 41.34 | 40.64 | 584 | 1.76 | 0.30 | 31.9 |
| 4/25/2015 13:08:35 | 41.67 | 40.97 | 574 | 1.77 | 0.30 | 31.4 |
| 4/25/2015 13:08:35 | 41.99 | 41.29 | 578 | 1.76 | 0.30 | 31.6 |
| 4/25/2015 13:08:36 | 42.32 | 41.62 | 582 | 1.77 | 0.30 | 31.8 |
| 4/25/2015 13:08:36 | 42.65 | 41.95 | 579 | 1.75 | 0.30 | 31.7 |
| 4/25/2015 13:08:37 | 42.98 | 42.28 | 575 | 1.76 | 0.30 | 31.4 |
| 4/25/2015 13:08:38 | 43.31 | 42.61 | 578 | 1.77 | 0.30 | 31.6 |
| 4/25/2015 13:08:38 | 43.64 | 42.94 | 575 | 1.76 | 0.30 | 31.4 |
| 4/25/2015 13:08:39 | 43.96 | 43.26 | 581 | 1.77 | 0.30 | 31.8 |
| 4/25/2015 13:08:39 | 44.29 | 43.59 | 581 | 1.74 | 0.30 | 31.8 |
| 4/25/2015 13:08:40 | 44.62 | 43.92 | 578 | 1.76 | 0.30 | 31.6 |
| 4/25/2015 13:08:40 | 44.95 | 44.25 | 578 | 1.76 | 0.30 | 31.6 |
| 4/25/2015 13:08:41 | 45.28 | 44.58 | 578 | 1.77 | 0.30 | 31.6 |
| 4/25/2015 13:08:42 | 45.60 | 44.90 | 572 | 1.75 | 0.30 | 31.3 |
| 4/25/2015 13:08:42 | 45.93 | 45.23 | 575 | 1.77 | 0.30 | 31.5 |
| 4/25/2015 13:08:43 | 46.26 | 45.56 | 578 | 1.75 | 0.30 | 31.6 |
| 4/25/2015 13:08:44 | 46.59 | 45.89 | 575 | 1.76 | 0.30 | 31.5 |
| 4/25/2015 13:08:45 | 46.92 | 46.22 | 575 | 1.76 | 0.30 | 31.4 |
| 4/25/2015 13:08:45 | 47.24 | 46.54 | 582 | 1.79 | 0.30 | 31.8 |
| 4/25/2015 13:09:03 | 47.57 | 46.87 | 0 | 1.78 | 1.05 | 0.0 |
| 4/25/2015 13:09:05 | 47.90 | 47.20 | 153 | 1.79 | 1.18 | 8.4 |
| 4/25/2015 13:09:13 | 48.23 | 47.53 | 0 | 1.76 | 1.15 | 0.0 |
| 4/25/2015 13:09:15 | 48.56 | 47.86 | 144 | 1.79 | 1.08 | 7.9 |
| 4/25/2015 13:09:56 | 48.88 | 48.18 | 48 | 1.78 | 1.29 | 2.6 |
| 4/25/2015 13:09:58 | 49.21 | 48.51 | 158 | 1.76 | 1.35 | 8.6 |
| 4/25/2015 13:10:08 | 49.54 | 48.84 | 83 | 1.74 | 1.05 | 4.6 |
| 4/25/2015 13:10:09 | 49.87 | 49.17 | 242 | 1.76 | 1.01 | 13.2 |
| 4/25/2015 13:10:10 | 50.20 | 49.50 | 272 | 1.77 | 0.96 | 14.9 |
| 4/25/2015 13:10:11 | 50.53 | 49.83 | 286 | 1.78 | 1.12 | 15.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:10:13 | 50.85 | 50.15 | 299 | 1.76 | 1.01 | 16.4 |
| 4/25/2015 | 13:10:14 | 51.18 | 50.48 | 292 | 1.78 | 1.22 | 16.0 |
| 4/25/2015 | 13:11:04 | 51.51 | 50.81 | 40 | 1.80 | 1.09 | 2.2 |
| 4/25/2015 | 13:11:06 | 51.84 | 51.14 | 164 | 1.77 | 1.05 | 9.0 |
| 4/25/2015 | 13:11:07 | 52.17 | 51.47 | 218 | 1.79 | 0.91 | 11.9 |
| 4/25/2015 | 13:11:09 | 52.49 | 51.79 | 228 | 1.76 | 0.92 | 12.5 |
| 4/25/2015 | 13:11:11 | 52.82 | 52.12 | 242 | 1.77 | 0.95 | 13.3 |
| 4/25/2015 | 13:11:12 | 53.15 | 52.45 | 257 | 1.78 | 0.90 | 14.1 |
| 4/25/2015 | 13:11:24 | 53.48 | 52.78 | 0 | 1.60 | 0.91 | 0.0 |
| 4/25/2015 | 13:11:25 | 53.81 | 53.11 | 63 | 1.74 | 1.09 | 3.4 |
| 4/25/2015 | 13:11:27 | 54.13 | 53.43 | 147 | 1.79 | 1.13 | 8.0 |
| 4/25/2015 | 13:11:29 | 54.46 | 53.76 | 186 | 1.79 | 1.49 | 10.2 |
| 4/25/2015 | 13:11:34 | 54.79 | 54.09 | 89 | 1.79 | 1.15 | 4.9 |
| 4/25/2015 | 13:12:09 | 55.12 | 54.42 | 21 | 1.81 | 1.07 | 1.2 |
| 4/25/2015 | 13:12:12 | 55.45 | 54.75 | 148 | 1.79 | 1.16 | 8.1 |
| 4/25/2015 | 13:12:16 | 55.77 | 55.07 | 87 | 1.79 | 1.19 | 4.7 |
| 4/25/2015 | 13:12:17 | 55.85 | 55.15 | 86 | 1.78 | 1.23 | 4.7 |

## H189 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:06:31

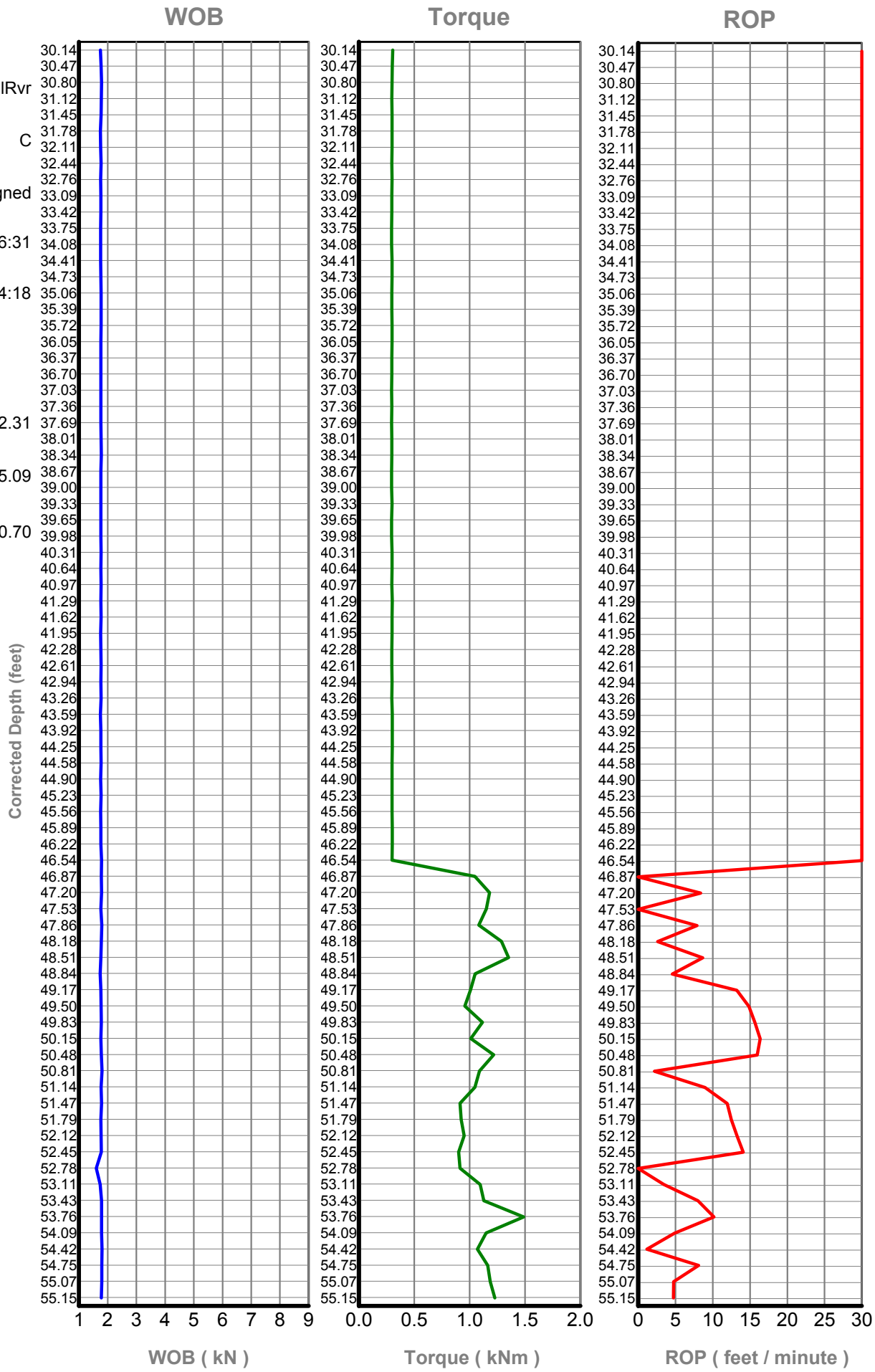
**End Date:**
4/25/2015 13:24:18

**Operator Note:**
'0.7 0.8 C Auto Complete'

**Northing:**
366,592.31

**Easting:**
250,705.09

**Tide (feet):**
0.70



## Hole: H19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 0:09:54 | 31.82 | 30.12 | 963 | 0.94 | 0.32 | 52.6 |
| 4/26/2015 0:09:54 | 32.15 | 30.45 | 960 | 0.94 | 0.32 | 52.5 |
| 4/26/2015 0:09:55 | 32.48 | 30.78 | 972 | 0.94 | 0.32 | 53.1 |
| 4/26/2015 0:09:55 | 32.81 | 31.11 | 969 | 0.95 | 0.32 | 53.0 |
| 4/26/2015 0:09:56 | 33.14 | 31.44 | 969 | 0.95 | 0.32 | 53.0 |
| 4/26/2015 0:09:56 | 33.46 | 31.76 | 974 | 0.94 | 0.32 | 53.3 |
| 4/26/2015 0:09:57 | 33.79 | 32.09 | 971 | 0.91 | 0.32 | 53.1 |
| 4/26/2015 0:09:57 | 34.12 | 32.42 | 971 | 0.91 | 0.32 | 53.1 |
| 4/26/2015 0:09:57 | 34.45 | 32.75 | 966 | 0.94 | 0.32 | 52.8 |
| 4/26/2015 0:09:58 | 34.78 | 33.08 | 952 | 0.94 | 0.32 | 52.0 |
| 4/26/2015 0:09:58 | 35.11 | 33.41 | 952 | 0.95 | 0.32 | 52.0 |
| 4/26/2015 0:09:59 | 35.43 | 33.73 | 952 | 0.95 | 0.32 | 52.0 |
| 4/26/2015 0:09:59 | 35.76 | 34.06 | 959 | 0.94 | 0.33 | 52.4 |
| 4/26/2015 0:09:59 | 36.09 | 34.39 | 962 | 0.94 | 0.32 | 52.6 |
| 4/26/2015 0:10:00 | 36.42 | 34.72 | 962 | 0.94 | 0.32 | 52.6 |
| 4/26/2015 0:10:00 | 36.75 | 35.05 | 956 | 0.94 | 0.32 | 52.3 |
| 4/26/2015 0:10:00 | 37.07 | 35.37 | 964 | 0.94 | 0.32 | 52.7 |
| 4/26/2015 0:10:01 | 37.40 | 35.70 | 964 | 0.94 | 0.32 | 52.7 |
| 4/26/2015 0:10:01 | 37.73 | 36.03 | 976 | 0.94 | 0.32 | 53.4 |
| 4/26/2015 0:10:01 | 38.06 | 36.36 | 965 | 0.93 | 0.32 | 52.8 |
| 4/26/2015 0:10:02 | 38.39 | 36.69 | 965 | 0.93 | 0.32 | 52.8 |
| 4/26/2015 0:10:02 | 38.71 | 37.01 | 965 | 0.93 | 0.32 | 52.8 |
| 4/26/2015 0:10:02 | 39.04 | 37.34 | 974 | 0.94 | 0.32 | 53.3 |
| 4/26/2015 0:10:03 | 39.37 | 37.67 | 969 | 0.94 | 0.32 | 53.0 |
| 4/26/2015 0:10:03 | 39.70 | 38.00 | 969 | 0.94 | 0.32 | 53.0 |
| 4/26/2015 0:10:03 | 40.03 | 38.33 | 975 | 0.86 | 0.32 | 53.3 |
| 4/26/2015 0:10:04 | 40.35 | 38.65 | 978 | 0.84 | 0.32 | 53.5 |
| 4/26/2015 0:10:04 | 40.68 | 38.98 | 981 | 0.18 | 0.32 | 53.6 |
| 4/26/2015 0:10:05 | 41.01 | 39.31 | 981 | 0.18 | 0.32 | 53.6 |
| 4/26/2015 0:10:05 | 41.34 | 39.64 | 972 | 0.20 | 0.32 | 53.1 |
| 4/26/2015 0:10:05 | 41.67 | 39.97 | 983 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:10:06 | 41.99 | 40.29 | 983 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:10:06 | 42.32 | 40.62 | 963 | 0.19 | 0.32 | 52.7 |
| 4/26/2015 0:10:06 | 42.65 | 40.95 | 969 | 0.20 | 0.32 | 53.0 |
| 4/26/2015 0:10:07 | 42.98 | 41.28 | 969 | 0.20 | 0.32 | 53.0 |
| 4/26/2015 0:10:07 | 43.31 | 41.61 | 969 | 0.18 | 0.34 | 53.0 |
| 4/26/2015 0:10:26 | 43.64 | 41.94 | 23 | 4.14 | 0.41 | 1.2 |
| 4/26/2015 0:10:31 | 43.96 | 42.26 | 110 | 5.78 | 0.39 | 6.0 |
| 4/26/2015 0:10:32 | 44.29 | 42.59 | 221 | 4.14 | 0.37 | 12.1 |
| 4/26/2015 0:10:33 | 44.62 | 42.92 | 315 | 3.12 | 0.37 | 17.2 |
| 4/26/2015 0:10:34 | 44.95 | 43.25 | 346 | 4.30 | 0.39 | 18.9 |
| 4/26/2015 0:10:51 | 45.28 | 43.58 | 22 | 3.64 | 0.37 | 1.2 |
| 4/26/2015 0:10:55 | 45.60 | 43.90 | 76 | 3.75 | 0.40 | 4.2 |
| 4/26/2015 0:11:01 | 45.93 | 44.23 | 64 | 3.88 | 0.38 | 3.5 |
| 4/26/2015 0:11:02 | 46.26 | 44.56 | 178 | 3.81 | 0.38 | 9.8 |
| 4/26/2015 0:11:06 | 46.59 | 44.89 | 0 | 5.17 | 0.40 | 0.0 |
| 4/26/2015 0:11:08 | 46.92 | 45.22 | 168 | 2.70 | 0.37 | 9.2 |
| 4/26/2015 0:11:09 | 47.24 | 45.54 | 265 | 2.58 | 0.37 | 14.5 |
| 4/26/2015 0:11:10 | 47.57 | 45.87 | 335 | 2.44 | 0.37 | 18.3 |
| 4/26/2015 0:11:11 | 47.90 | 46.20 | 385 | 3.09 | 0.39 | 21.1 |
| 4/26/2015 0:11:14 | 48.23 | 46.53 | 130 | 3.61 | 0.40 | 7.1 |
| 4/26/2015 0:11:16 | 48.56 | 46.86 | 158 | 2.74 | 0.38 | 8.7 |
| 4/26/2015 0:11:17 | 48.88 | 47.18 | 193 | 3.02 | 0.39 | 10.6 |
| 4/26/2015 0:11:19 | 49.21 | 47.51 | 215 | 3.15 | 0.39 | 11.8 |
| 4/26/2015 0:11:22 | 49.54 | 47.84 | 190 | 2.89 | 0.39 | 10.4 |
| 4/26/2015 0:11:23 | 49.87 | 48.17 | 209 | 2.67 | 0.38 | 11.5 |
| 4/26/2015 0:11:24 | 50.20 | 48.50 | 257 | 3.26 | 0.38 | 14.1 |
| 4/26/2015 0:11:26 | 50.53 | 48.83 | 261 | 3.50 | 0.37 | 14.3 |
| 4/26/2015 0:11:27 | 50.85 | 49.15 | 225 | 3.44 | 0.39 | 12.3 |
| 4/26/2015 0:11:39 | 51.18 | 49.48 | 32 | 4.11 | 0.38 | 1.7 |
| 4/26/2015 0:11:40 | 51.51 | 49.81 | 133 | 4.12 | 0.40 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 0:11:42 | 51.84 | 50.14 | 197 | 3.44 | 0.37 | 10.8 |
| 4/26/2015 | 0:11:43 | 52.17 | 50.47 | 289 | 3.88 | 0.37 | 15.8 |
| 4/26/2015 | 0:12:10 | 52.49 | 50.79 | 54 | 3.62 | 0.37 | 2.9 |
| 4/26/2015 | 0:12:11 | 52.82 | 51.12 | 127 | 2.74 | 0.36 | 6.9 |
| 4/26/2015 | 0:12:11 | 53.15 | 51.45 | 224 | 2.78 | 0.37 | 12.2 |
| 4/26/2015 | 0:12:12 | 53.48 | 51.78 | 315 | 2.71 | 0.36 | 17.2 |
| 4/26/2015 | 0:12:13 | 53.81 | 52.11 | 444 | 3.13 | 0.37 | 24.3 |
| 4/26/2015 | 0:12:14 | 54.13 | 52.43 | 411 | 4.62 | 0.39 | 22.5 |
| 4/26/2015 | 0:13:52 | 54.46 | 52.76 | 0 | 4.04 | 0.39 | 0.0 |
| 4/26/2015 | 0:13:53 | 54.79 | 53.09 | 116 | 3.86 | 0.40 | 6.3 |
| 4/26/2015 | 0:13:55 | 55.12 | 53.42 | 194 | 4.87 | 0.40 | 10.6 |
| 4/26/2015 | 0:13:57 | 55.45 | 53.75 | 194 | 4.70 | 0.39 | 10.6 |
| 4/26/2015 | 0:13:59 | 55.77 | 54.07 | 246 | 4.31 | 0.39 | 13.5 |
| 4/26/2015 | 0:14:00 | 56.10 | 54.40 | 271 | 4.85 | 0.39 | 14.8 |
| 4/26/2015 | 0:14:01 | 56.43 | 54.73 | 259 | 4.89 | 0.39 | 14.1 |
| 4/26/2015 | 0:14:03 | 56.76 | 55.06 | 234 | 5.32 | 0.40 | 12.8 |

## H19 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 0:06:55

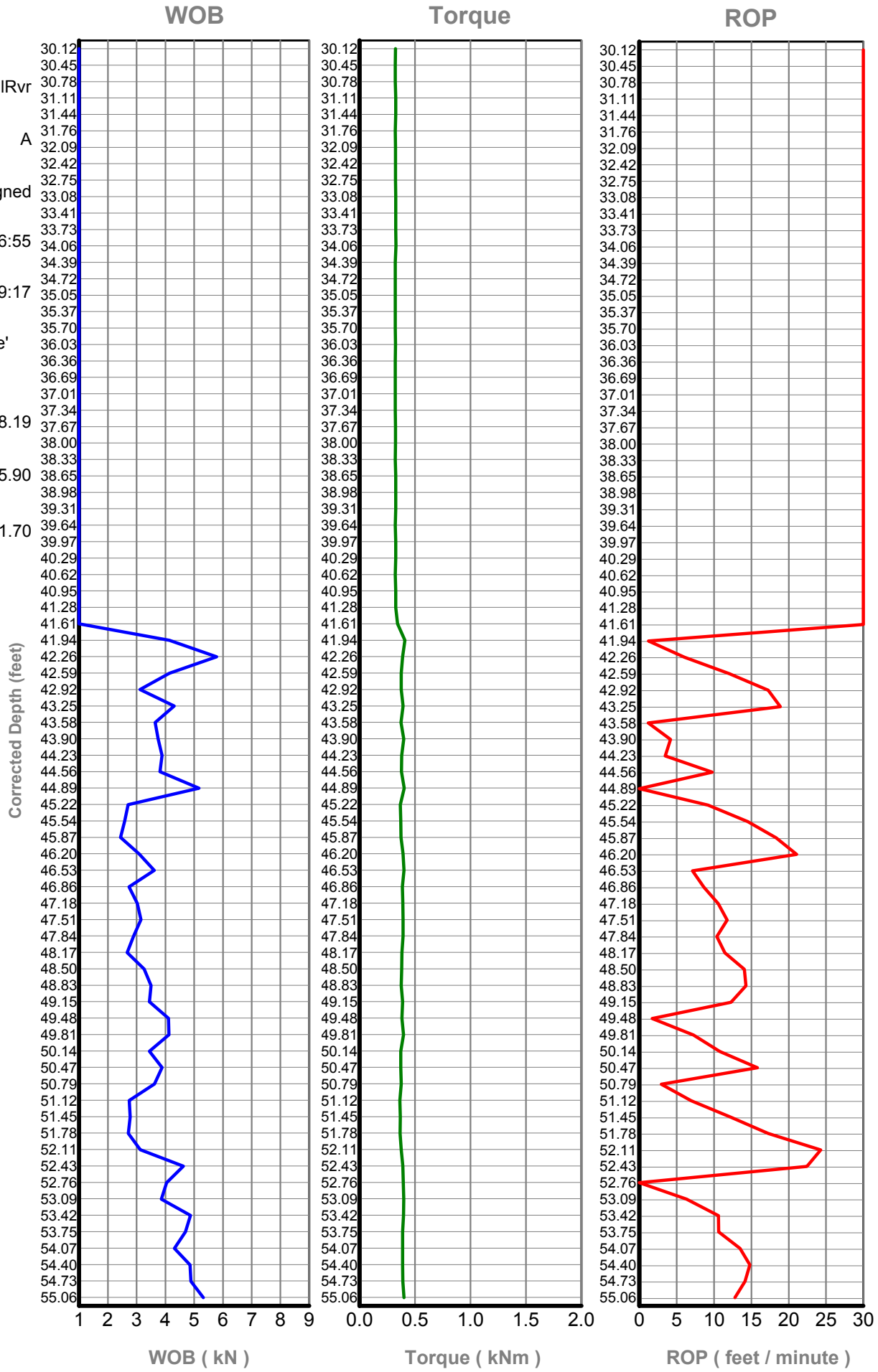
**End Date:**
4/26/2015 0:19:17

**Operator Note:**
'1.7 1.8 b Auto Complete'

**Northing:**
366,448.19

**Easting:**
250,055.90

**Tide (feet):**
1.70



## Hole: H190 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:06:49 | 34.45 | 30.25 | 902 | 0.33 | 0.32 | 49.3 |
| 4/25/2015 9:06:50 | 34.78 | 30.58 | 905 | 0.33 | 0.31 | 49.5 |
| 4/25/2015 9:06:50 | 35.11 | 30.91 | 905 | 0.33 | 0.31 | 49.5 |
| 4/25/2015 9:06:50 | 35.43 | 31.23 | 908 | 0.33 | 0.31 | 49.6 |
| 4/25/2015 9:06:51 | 35.76 | 31.56 | 902 | 0.33 | 0.31 | 49.3 |
| 4/25/2015 9:06:51 | 36.09 | 31.89 | 902 | 0.33 | 0.31 | 49.3 |
| 4/25/2015 9:06:52 | 36.42 | 32.22 | 894 | 0.33 | 0.31 | 48.9 |
| 4/25/2015 9:06:52 | 36.75 | 32.55 | 894 | 0.33 | 0.31 | 48.9 |
| 4/25/2015 9:06:52 | 37.07 | 32.87 | 899 | 0.33 | 0.32 | 49.2 |
| 4/25/2015 9:06:53 | 37.40 | 33.20 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:06:53 | 37.73 | 33.53 | 885 | 0.33 | 0.31 | 48.4 |
| 4/25/2015 9:06:54 | 38.06 | 33.86 | 885 | 0.33 | 0.31 | 48.4 |
| 4/25/2015 9:06:54 | 38.39 | 34.19 | 885 | 0.33 | 0.31 | 48.4 |
| 4/25/2015 9:06:54 | 38.71 | 34.51 | 887 | 0.39 | 0.31 | 48.5 |
| 4/25/2015 9:06:55 | 39.04 | 34.84 | 879 | 0.45 | 0.33 | 48.0 |
| 4/25/2015 9:06:55 | 39.37 | 35.17 | 867 | 0.36 | 0.32 | 47.4 |
| 4/25/2015 9:06:56 | 39.70 | 35.50 | 867 | 0.36 | 0.32 | 47.4 |
| 4/25/2015 9:06:56 | 40.03 | 35.83 | 867 | 0.39 | 0.32 | 47.4 |
| 4/25/2015 9:06:56 | 40.35 | 36.15 | 870 | 0.39 | 0.32 | 47.6 |
| 4/25/2015 9:06:57 | 40.68 | 36.48 | 861 | 0.34 | 0.31 | 47.1 |
| 4/25/2015 9:06:57 | 41.01 | 36.81 | 861 | 0.34 | 0.31 | 47.1 |
| 4/25/2015 9:06:57 | 41.34 | 37.14 | 873 | 0.33 | 0.31 | 47.8 |
| 4/25/2015 9:06:58 | 41.67 | 37.47 | 888 | 0.33 | 0.31 | 48.5 |
| 4/25/2015 9:06:58 | 41.99 | 37.79 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:06:59 | 42.32 | 38.12 | 896 | 0.33 | 0.32 | 49.0 |
| 4/25/2015 9:07:00 | 42.65 | 38.45 | 896 | 0.33 | 0.32 | 49.0 |
| 4/25/2015 9:07:00 | 42.98 | 38.78 | 905 | 0.33 | 0.32 | 49.5 |
| 4/25/2015 9:07:00 | 43.31 | 39.11 | 900 | 0.32 | 0.32 | 49.2 |
| 4/25/2015 9:07:01 | 43.64 | 39.44 | 905 | 0.33 | 0.32 | 49.5 |
| 4/25/2015 9:07:01 | 43.96 | 39.76 | 905 | 0.33 | 0.32 | 49.5 |
| 4/25/2015 9:07:01 | 44.29 | 40.09 | 899 | 0.33 | 0.32 | 49.2 |
| 4/25/2015 9:07:02 | 44.62 | 40.42 | 896 | 0.33 | 0.32 | 49.0 |
| 4/25/2015 9:07:02 | 44.95 | 40.75 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:07:03 | 45.28 | 41.08 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:07:03 | 45.60 | 41.40 | 893 | 0.33 | 0.32 | 48.8 |
| 4/25/2015 9:07:03 | 45.93 | 41.73 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:07:04 | 46.26 | 42.06 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:07:04 | 46.59 | 42.39 | 893 | 0.33 | 0.31 | 48.8 |
| 4/25/2015 9:07:04 | 46.92 | 42.72 | 886 | 0.33 | 0.32 | 48.4 |
| 4/25/2015 9:07:05 | 47.24 | 43.04 | 894 | 0.33 | 0.31 | 48.9 |
| 4/25/2015 9:07:05 | 47.57 | 43.37 | 888 | 0.33 | 0.32 | 48.6 |
| 4/25/2015 9:07:06 | 47.90 | 43.70 | 885 | 0.33 | 0.32 | 48.4 |
| 4/25/2015 9:07:06 | 48.23 | 44.03 | 885 | 0.33 | 0.32 | 48.4 |
| 4/25/2015 9:07:06 | 48.56 | 44.36 | 883 | 0.35 | 0.31 | 48.3 |
| 4/25/2015 9:07:07 | 48.88 | 44.68 | 902 | 0.33 | 0.32 | 49.3 |
| 4/25/2015 9:07:07 | 49.21 | 45.01 | 891 | 0.33 | 0.31 | 48.7 |
| 4/25/2015 9:07:08 | 49.54 | 45.34 | 891 | 0.33 | 0.31 | 48.7 |
| 4/25/2015 9:07:08 | 49.87 | 45.67 | 896 | 0.33 | 0.31 | 49.0 |
| 4/25/2015 9:07:08 | 50.20 | 46.00 | 894 | 0.33 | 0.32 | 48.9 |
| 4/25/2015 9:07:09 | 50.53 | 46.33 | 894 | 0.33 | 0.30 | 48.9 |
| 4/25/2015 9:07:09 | 50.85 | 46.65 | 894 | 0.33 | 0.30 | 48.9 |
| 4/25/2015 9:07:15 | 51.18 | 46.98 | 3 | 5.37 | 0.37 | 0.2 |
| 4/25/2015 9:07:19 | 51.51 | 47.31 | 35 | 4.00 | 0.36 | 1.9 |
| 4/25/2015 9:07:21 | 51.84 | 47.64 | 183 | 3.96 | 0.37 | 10.0 |
| 4/25/2015 9:07:21 | 52.17 | 47.97 | 266 | 3.96 | 0.35 | 14.6 |
| 4/25/2015 9:07:30 | 52.49 | 48.29 | 29 | 4.95 | 0.38 | 1.6 |
| 4/25/2015 9:07:33 | 52.82 | 48.62 | 115 | 4.40 | 0.37 | 6.3 |
| 4/25/2015 9:07:34 | 53.15 | 48.95 | 166 | 3.58 | 0.36 | 9.1 |
| 4/25/2015 9:07:35 | 53.48 | 49.28 | 269 | 3.07 | 0.35 | 14.7 |
| 4/25/2015 9:07:36 | 53.81 | 49.61 | 367 | 3.08 | 0.36 | 20.1 |
| 4/25/2015 9:07:37 | 54.13 | 49.93 | 379 | 3.03 | 0.36 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:07:38 | 54.46 | 50.26 | 382 | 3.05 | 0.35 | 20.9 |
| 4/25/2015 | 9:07:49 | 54.79 | 50.59 | 9 | 2.95 | 0.37 | 0.5 |
| 4/25/2015 | 9:07:50 | 55.12 | 50.92 | 145 | 2.69 | 0.35 | 7.9 |
| 4/25/2015 | 9:07:51 | 55.45 | 51.25 | 301 | 2.65 | 0.36 | 16.5 |
| 4/25/2015 | 9:07:52 | 55.77 | 51.57 | 328 | 2.58 | 0.35 | 17.9 |
| 4/25/2015 | 9:07:53 | 56.10 | 51.90 | 431 | 2.50 | 0.35 | 23.5 |
| 4/25/2015 | 9:07:54 | 56.43 | 52.23 | 442 | 2.53 | 0.35 | 24.2 |
| 4/25/2015 | 9:07:55 | 56.76 | 52.56 | 457 | 2.53 | 0.35 | 25.0 |
| 4/25/2015 | 9:07:55 | 57.09 | 52.89 | 471 | 2.59 | 0.35 | 25.8 |
| 4/25/2015 | 9:07:56 | 57.41 | 53.21 | 477 | 2.58 | 0.35 | 26.1 |
| 4/25/2015 | 9:08:02 | 57.74 | 53.54 | 0 | 2.25 | 0.34 | 0.0 |
| 4/25/2015 | 9:08:03 | 58.07 | 53.87 | 88 | 2.55 | 0.36 | 4.8 |
| 4/25/2015 | 9:08:04 | 58.40 | 54.20 | 271 | 4.68 | 0.38 | 14.8 |
| 4/25/2015 | 9:08:06 | 58.73 | 54.53 | 163 | 3.22 | 0.39 | 8.9 |
| 4/25/2015 | 9:08:19 | 59.06 | 54.86 | 23 | 2.83 | 0.40 | 1.3 |
| 4/25/2015 | 9:08:34 | 59.38 | 55.18 | 25 | 3.09 | 0.41 | 1.4 |
| 4/25/2015 | 9:08:37 | 59.49 | 55.29 | 33 | 2.83 | 0.40 | 1.8 |

## H190 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:04:14

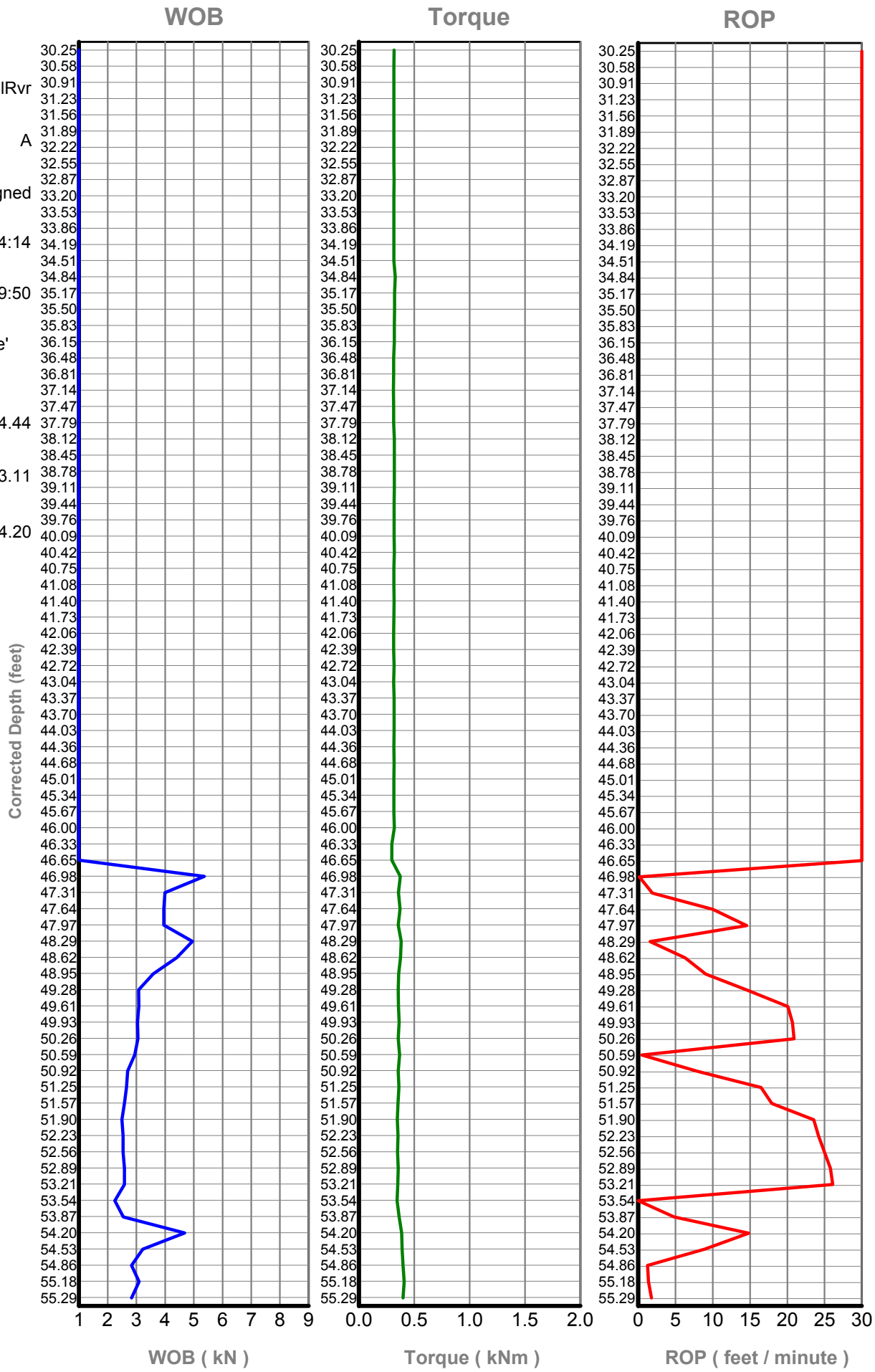
**End Date:**
4/25/2015 9:09:50

**Operator Note:**
'4.2 4.5 b Auto Complete'

**Northing:**
366,644.44

**Easting:**
250,773.11

**Tide (feet):**
4.20



## Hole: H191 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:11:57 | 34.45 | 30.25 | 963 | 0.33 | 0.32 | 52.6 |
| 4/25/2015 9:11:58 | 34.78 | 30.58 | 974 | 0.33 | 0.32 | 53.3 |
| 4/25/2015 9:11:58 | 35.11 | 30.91 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:11:59 | 35.43 | 31.23 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:11:59 | 35.76 | 31.56 | 968 | 0.33 | 0.32 | 53.0 |
| 4/25/2015 9:11:59 | 36.09 | 31.89 | 971 | 0.33 | 0.33 | 53.1 |
| 4/25/2015 9:12:00 | 36.42 | 32.22 | 971 | 0.33 | 0.33 | 53.1 |
| 4/25/2015 9:12:00 | 36.75 | 32.55 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:12:01 | 37.07 | 32.87 | 957 | 0.33 | 0.32 | 52.3 |
| 4/25/2015 9:12:01 | 37.40 | 33.20 | 951 | 0.34 | 0.32 | 52.0 |
| 4/25/2015 9:12:02 | 37.73 | 33.53 | 951 | 0.34 | 0.32 | 52.0 |
| 4/25/2015 9:12:02 | 38.06 | 33.86 | 954 | 0.34 | 0.32 | 52.2 |
| 4/25/2015 9:12:02 | 38.39 | 34.19 | 954 | 0.34 | 0.32 | 52.2 |
| 4/25/2015 9:12:03 | 38.71 | 34.51 | 954 | 0.34 | 0.32 | 52.2 |
| 4/25/2015 9:12:03 | 39.04 | 34.84 | 951 | 0.34 | 0.32 | 52.0 |
| 4/25/2015 9:12:03 | 39.37 | 35.17 | 960 | 0.34 | 0.32 | 52.5 |
| 4/25/2015 9:12:04 | 39.70 | 35.50 | 966 | 0.36 | 0.32 | 52.8 |
| 4/25/2015 9:12:04 | 40.03 | 35.83 | 966 | 0.36 | 0.32 | 52.8 |
| 4/25/2015 9:12:04 | 40.35 | 36.15 | 968 | 0.34 | 0.32 | 53.0 |
| 4/25/2015 9:12:05 | 40.68 | 36.48 | 968 | 0.34 | 0.32 | 53.0 |
| 4/25/2015 9:12:05 | 41.01 | 36.81 | 968 | 0.34 | 0.32 | 53.0 |
| 4/25/2015 9:12:05 | 41.34 | 37.14 | 977 | 0.34 | 0.32 | 53.4 |
| 4/25/2015 9:12:06 | 41.67 | 37.47 | 966 | 0.33 | 0.32 | 52.8 |
| 4/25/2015 9:12:06 | 41.99 | 37.79 | 968 | 0.34 | 0.32 | 53.0 |
| 4/25/2015 9:12:07 | 42.32 | 38.12 | 968 | 0.34 | 0.32 | 53.0 |
| 4/25/2015 9:12:07 | 42.65 | 38.45 | 966 | 0.34 | 0.32 | 52.8 |
| 4/25/2015 9:12:07 | 42.98 | 38.78 | 960 | 0.34 | 0.32 | 52.5 |
| 4/25/2015 9:12:08 | 43.31 | 39.11 | 960 | 0.34 | 0.32 | 52.5 |
| 4/25/2015 9:12:08 | 43.64 | 39.44 | 951 | 0.34 | 0.34 | 52.0 |
| 4/25/2015 9:12:08 | 43.96 | 39.76 | 945 | 0.34 | 0.32 | 51.7 |
| 4/25/2015 9:12:12 | 44.29 | 40.09 | 0 | 2.17 | 0.31 | 0.0 |
| 4/25/2015 9:12:12 | 44.62 | 40.42 | 123 | 2.17 | 0.32 | 6.7 |
| 4/25/2015 9:12:13 | 44.95 | 40.75 | 123 | 2.17 | 0.32 | 6.7 |
| 4/25/2015 9:12:13 | 45.28 | 41.08 | 317 | 2.14 | 0.32 | 17.3 |
| 4/25/2015 9:12:13 | 45.60 | 41.40 | 517 | 2.14 | 0.32 | 28.3 |
| 4/25/2015 9:12:14 | 45.93 | 41.73 | 714 | 2.19 | 0.32 | 39.1 |
| 4/25/2015 9:12:14 | 46.26 | 42.06 | 714 | 2.19 | 0.32 | 39.1 |
| 4/25/2015 9:12:14 | 46.59 | 42.39 | 892 | 2.24 | 0.32 | 48.8 |
| 4/25/2015 9:12:15 | 46.92 | 42.72 | 970 | 2.35 | 0.31 | 53.0 |
| 4/25/2015 9:12:15 | 47.24 | 43.04 | 970 | 2.35 | 0.31 | 53.0 |
| 4/25/2015 9:12:15 | 47.57 | 43.37 | 956 | 2.78 | 0.34 | 52.3 |
| 4/25/2015 9:12:16 | 47.90 | 43.70 | 905 | 3.67 | 0.36 | 49.5 |
| 4/25/2015 9:12:17 | 48.23 | 44.03 | 762 | 3.28 | 0.33 | 41.7 |
| 4/25/2015 9:12:17 | 48.56 | 44.36 | 713 | 2.96 | 0.34 | 39.0 |
| 4/25/2015 9:12:18 | 48.88 | 44.68 | 662 | 4.85 | 0.35 | 36.2 |
| 4/25/2015 9:12:18 | 49.21 | 45.01 | 637 | 2.83 | 0.35 | 34.9 |
| 4/25/2015 9:12:19 | 49.54 | 45.34 | 650 | 4.17 | 0.36 | 35.5 |
| 4/25/2015 9:12:19 | 49.87 | 45.67 | 638 | 4.20 | 0.35 | 34.9 |
| 4/25/2015 9:12:23 | 50.20 | 46.00 | 106 | 4.04 | 0.39 | 5.8 |
| 4/25/2015 9:12:24 | 50.53 | 46.33 | 187 | 3.52 | 0.37 | 10.2 |
| 4/25/2015 9:12:25 | 50.85 | 46.65 | 272 | 4.91 | 0.36 | 14.9 |
| 4/25/2015 9:12:26 | 51.18 | 46.98 | 317 | 3.48 | 0.36 | 17.3 |
| 4/25/2015 9:12:31 | 51.51 | 47.31 | 71 | 3.56 | 0.36 | 3.9 |
| 4/25/2015 9:12:31 | 51.84 | 47.64 | 171 | 3.09 | 0.37 | 9.4 |
| 4/25/2015 9:12:33 | 52.17 | 47.97 | 371 | 3.90 | 0.38 | 20.3 |
| 4/25/2015 9:12:43 | 52.49 | 48.29 | 6 | 3.37 | 0.39 | 0.3 |
| 4/25/2015 9:12:47 | 52.82 | 48.62 | 52 | 3.06 | 0.36 | 2.9 |
| 4/25/2015 9:12:48 | 53.15 | 48.95 | 177 | 3.65 | 0.38 | 9.7 |
| 4/25/2015 9:12:51 | 53.48 | 49.28 | 101 | 4.00 | 0.40 | 5.5 |
| 4/25/2015 9:12:57 | 53.81 | 49.61 | 69 | 3.50 | 0.40 | 3.8 |
| 4/25/2015 9:13:01 | 54.13 | 49.93 | 71 | 3.15 | 0.39 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:13:07 | 54.46 | 50.26 | 64 | 3.99 | 0.40 | 3.5 |
| 4/25/2015 | 9:13:12 | 54.79 | 50.59 | 81 | 3.98 | 0.40 | 4.4 |
| 4/25/2015 | 9:13:15 | 55.12 | 50.92 | 119 | 3.95 | 0.40 | 6.5 |
| 4/25/2015 | 9:13:27 | 55.45 | 51.25 | 17 | 3.56 | 0.38 | 1.0 |
| 4/25/2015 | 9:13:29 | 55.77 | 51.57 | 132 | 3.37 | 0.40 | 7.2 |
| 4/25/2015 | 9:13:34 | 56.10 | 51.90 | 80 | 4.19 | 0.39 | 4.4 |
| 4/25/2015 | 9:13:38 | 56.43 | 52.23 | 86 | 3.57 | 0.39 | 4.7 |
| 4/25/2015 | 9:13:42 | 56.76 | 52.56 | 84 | 3.37 | 0.39 | 4.6 |
| 4/25/2015 | 9:13:47 | 57.09 | 52.89 | 87 | 3.98 | 0.39 | 4.8 |
| 4/25/2015 | 9:13:51 | 57.41 | 53.21 | 69 | 3.43 | 0.39 | 3.8 |
| 4/25/2015 | 9:13:56 | 57.74 | 53.54 | 78 | 3.12 | 0.39 | 4.3 |
| 4/25/2015 | 9:14:01 | 58.07 | 53.87 | 61 | 3.23 | 0.40 | 3.3 |
| 4/25/2015 | 9:14:04 | 58.20 | 54.00 | 43 | 3.16 | 0.40 | 2.4 |

## H191 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:09:57

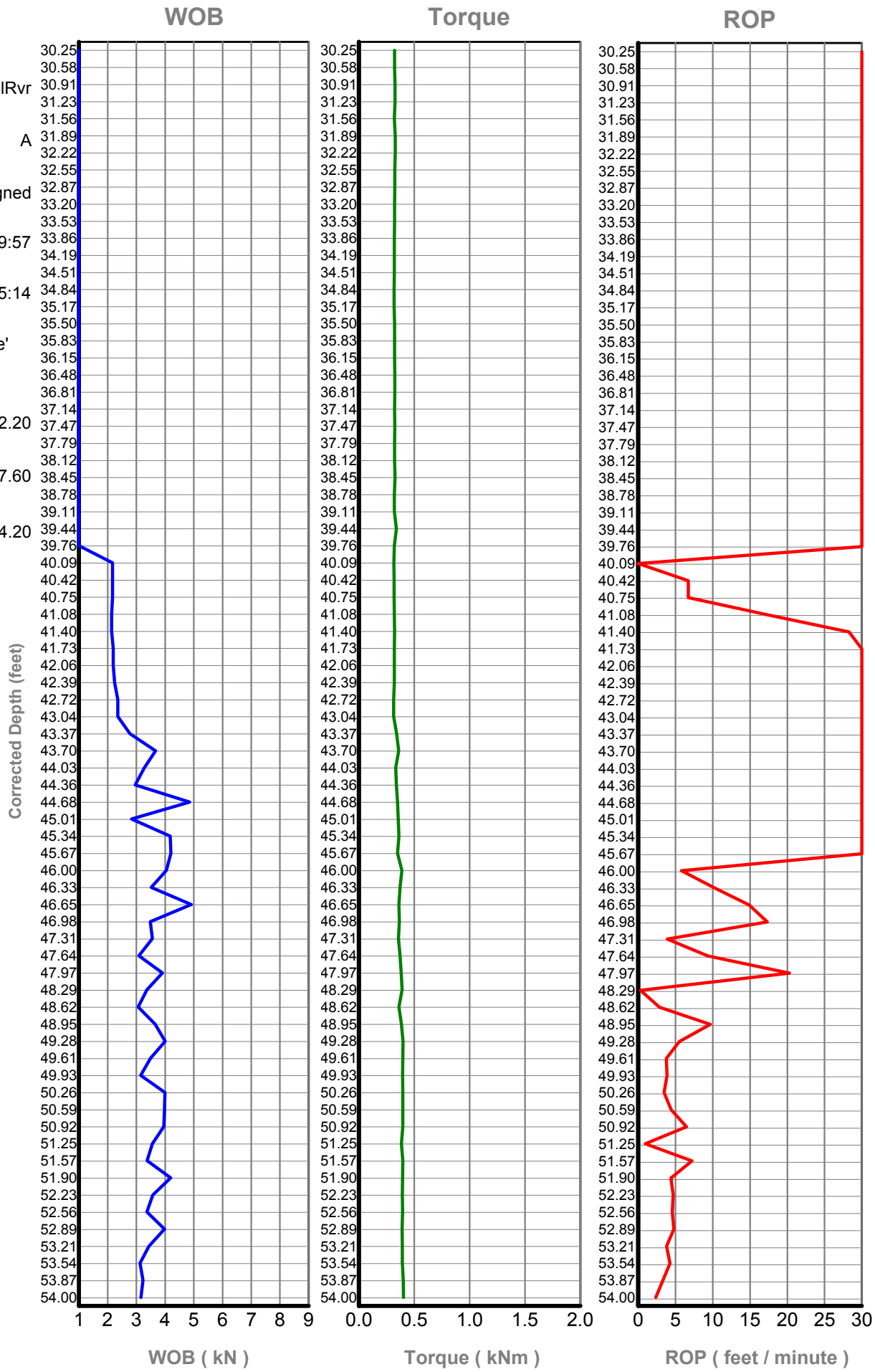
**End Date:**
4/25/2015 9:15:14

**Operator Note:**
'4.2 4.4 b Auto Complete'

**Northing:**
366,682.20

**Easting:**
250,817.60

**Tide (feet):**
4.20



## Hole: H192 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:08:54 | 34.45 | 30.25 | 619 | 1.83 | 0.30 | 33.8 |
| 4/25/2015 9:08:55 | 34.78 | 30.58 | 619 | 1.81 | 0.30 | 33.8 |
| 4/25/2015 9:08:56 | 35.11 | 30.91 | 619 | 1.87 | 0.30 | 33.8 |
| 4/25/2015 9:08:56 | 35.43 | 31.23 | 616 | 1.82 | 0.30 | 33.7 |
| 4/25/2015 9:08:57 | 35.76 | 31.56 | 609 | 1.83 | 0.29 | 33.3 |
| 4/25/2015 9:08:58 | 36.09 | 31.89 | 619 | 1.83 | 0.29 | 33.8 |
| 4/25/2015 9:08:58 | 36.42 | 32.22 | 616 | 1.81 | 0.29 | 33.7 |
| 4/25/2015 9:08:59 | 36.75 | 32.55 | 619 | 1.84 | 0.29 | 33.9 |
| 4/25/2015 9:08:59 | 37.07 | 32.87 | 615 | 1.82 | 0.29 | 33.6 |
| 4/25/2015 9:09:00 | 37.40 | 33.20 | 612 | 1.82 | 0.29 | 33.4 |
| 4/25/2015 9:09:00 | 37.73 | 33.53 | 612 | 1.82 | 0.29 | 33.4 |
| 4/25/2015 9:09:01 | 38.06 | 33.86 | 605 | 1.84 | 0.30 | 33.1 |
| 4/25/2015 9:09:01 | 38.39 | 34.19 | 605 | 1.82 | 0.29 | 33.1 |
| 4/25/2015 9:09:02 | 38.71 | 34.51 | 614 | 1.83 | 0.29 | 33.6 |
| 4/25/2015 9:09:03 | 39.04 | 34.84 | 614 | 1.82 | 0.29 | 33.6 |
| 4/25/2015 9:09:03 | 39.37 | 35.17 | 621 | 1.81 | 0.29 | 34.0 |
| 4/25/2015 9:09:04 | 39.70 | 35.50 | 625 | 1.83 | 0.29 | 34.2 |
| 4/25/2015 9:09:04 | 40.03 | 35.83 | 616 | 1.83 | 0.29 | 33.7 |
| 4/25/2015 9:09:05 | 40.35 | 36.15 | 620 | 1.82 | 0.29 | 33.9 |
| 4/25/2015 9:09:05 | 40.68 | 36.48 | 613 | 1.84 | 0.29 | 33.5 |
| 4/25/2015 9:09:06 | 41.01 | 36.81 | 616 | 1.83 | 0.29 | 33.7 |
| 4/25/2015 9:09:07 | 41.34 | 37.14 | 616 | 1.81 | 0.29 | 33.7 |
| 4/25/2015 9:09:08 | 41.67 | 37.47 | 609 | 1.84 | 0.29 | 33.3 |
| 4/25/2015 9:09:08 | 41.99 | 37.79 | 616 | 1.84 | 0.29 | 33.7 |
| 4/25/2015 9:09:09 | 42.32 | 38.12 | 616 | 1.83 | 0.29 | 33.7 |
| 4/25/2015 9:09:09 | 42.65 | 38.45 | 613 | 1.62 | 0.29 | 33.5 |
| 4/25/2015 9:09:10 | 42.98 | 38.78 | 613 | 1.83 | 0.29 | 33.5 |
| 4/25/2015 9:09:10 | 43.31 | 39.11 | 613 | 1.85 | 0.29 | 33.5 |
| 4/25/2015 9:09:11 | 43.64 | 39.44 | 613 | 1.83 | 0.29 | 33.5 |
| 4/25/2015 9:09:11 | 43.96 | 39.76 | 607 | 1.81 | 0.29 | 33.2 |
| 4/25/2015 9:09:12 | 44.29 | 40.09 | 597 | 1.81 | 0.29 | 32.6 |
| 4/25/2015 9:09:13 | 44.62 | 40.42 | 597 | 1.83 | 0.29 | 32.6 |
| 4/25/2015 9:09:13 | 44.95 | 40.75 | 606 | 1.83 | 0.29 | 33.1 |
| 4/25/2015 9:09:14 | 45.28 | 41.08 | 600 | 1.81 | 0.29 | 32.8 |
| 4/25/2015 9:09:14 | 45.60 | 41.40 | 603 | 1.79 | 0.29 | 32.9 |
| 4/25/2015 9:09:15 | 45.93 | 41.73 | 603 | 1.82 | 0.29 | 33.0 |
| 4/25/2015 9:09:15 | 46.26 | 42.06 | 616 | 1.82 | 0.29 | 33.7 |
| 4/25/2015 9:09:16 | 46.59 | 42.39 | 606 | 1.83 | 0.29 | 33.2 |
| 4/25/2015 9:09:17 | 46.92 | 42.72 | 610 | 1.81 | 0.29 | 33.4 |
| 4/25/2015 9:09:18 | 47.24 | 43.04 | 613 | 1.81 | 0.29 | 33.5 |
| 4/25/2015 9:09:18 | 47.57 | 43.37 | 610 | 1.81 | 0.29 | 33.4 |
| 4/25/2015 9:09:19 | 47.90 | 43.70 | 610 | 1.84 | 0.29 | 33.4 |
| 4/25/2015 9:09:19 | 48.23 | 44.03 | 614 | 1.88 | 0.29 | 33.6 |
| 4/25/2015 9:09:20 | 48.56 | 44.36 | 610 | 1.83 | 0.29 | 33.4 |
| 4/25/2015 9:09:20 | 48.88 | 44.68 | 604 | 1.83 | 0.29 | 33.0 |
| 4/25/2015 9:09:45 | 49.21 | 45.01 | 0 | 1.84 | 1.20 | 0.0 |
| 4/25/2015 9:09:50 | 49.54 | 45.34 | 92 | 1.85 | 1.04 | 5.1 |
| 4/25/2015 9:09:58 | 49.87 | 45.67 | 35 | 1.81 | 1.11 | 1.9 |
| 4/25/2015 9:09:59 | 50.20 | 46.00 | 120 | 1.79 | 1.07 | 6.6 |
| 4/25/2015 9:10:06 | 50.53 | 46.33 | 0 | 1.82 | 1.19 | 0.0 |
| 4/25/2015 9:10:12 | 50.85 | 46.65 | 79 | 1.60 | 1.12 | 4.3 |
| 4/25/2015 9:10:17 | 51.18 | 46.98 | 70 | 1.87 | 1.14 | 3.8 |
| 4/25/2015 9:10:24 | 51.51 | 47.31 | 55 | 1.86 | 1.15 | 3.0 |
| 4/25/2015 9:10:32 | 51.84 | 47.64 | 48 | 1.89 | 1.12 | 2.6 |
| 4/25/2015 9:10:40 | 52.17 | 47.97 | 42 | 1.89 | 1.05 | 2.3 |
| 4/25/2015 9:10:49 | 52.49 | 48.29 | 41 | 1.86 | 1.06 | 2.2 |
| 4/25/2015 9:10:57 | 52.82 | 48.62 | 52 | 1.83 | 1.13 | 2.9 |
| 4/25/2015 9:10:59 | 53.15 | 48.95 | 139 | 1.83 | 1.07 | 7.6 |
| 4/25/2015 9:11:04 | 53.48 | 49.28 | 70 | 1.87 | 1.14 | 3.8 |
| 4/25/2015 9:11:11 | 53.81 | 49.61 | 52 | 1.87 | 1.13 | 2.8 |
| 4/25/2015 9:11:20 | 54.13 | 49.93 | 35 | 1.87 | 1.05 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:11:30 | 54.46 | 50.26 | 34 | 1.88 | 1.13 | 1.9 |
| 4/25/2015 | 9:11:33 | 54.56 | 50.36 | 38 | 1.86 | 1.18 | 2.1 |

## H192 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:07:16

**End Date:**
4/25/2015 9:13:02

**Operator Note:**
'4.2 4.5 C Auto Complete'

**Northing:**
366,730.21

**Easting:**
250,876.16

**Tide (feet):**
4.20



## Hole: H193 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:51:28 | 31.82 | 30.32 | 868 | 0.95 | 0.33 | 47.4 |
| 4/24/2015 22:51:28 | 32.15 | 30.65 | 876 | 0.95 | 0.33 | 47.9 |
| 4/24/2015 22:51:29 | 32.48 | 30.98 | 874 | 0.96 | 0.33 | 47.8 |
| 4/24/2015 22:51:29 | 32.81 | 31.31 | 874 | 0.96 | 0.33 | 47.8 |
| 4/24/2015 22:51:29 | 33.14 | 31.64 | 882 | 0.95 | 0.33 | 48.2 |
| 4/24/2015 22:51:30 | 33.46 | 31.96 | 885 | 0.96 | 0.33 | 48.4 |
| 4/24/2015 22:51:30 | 33.79 | 32.29 | 890 | 0.94 | 0.33 | 48.7 |
| 4/24/2015 22:51:31 | 34.12 | 32.62 | 890 | 0.94 | 0.33 | 48.7 |
| 4/24/2015 22:51:31 | 34.45 | 32.95 | 879 | 0.23 | 0.32 | 48.1 |
| 4/24/2015 22:51:31 | 34.78 | 33.28 | 879 | 0.23 | 0.34 | 48.1 |
| 4/24/2015 22:51:32 | 35.11 | 33.61 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 22:51:32 | 35.43 | 33.93 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 22:51:32 | 35.76 | 34.26 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 22:51:33 | 36.09 | 34.59 | 875 | 0.22 | 0.33 | 47.8 |
| 4/24/2015 22:51:33 | 36.42 | 34.92 | 885 | 0.23 | 0.33 | 48.4 |
| 4/24/2015 22:51:34 | 36.75 | 35.25 | 882 | 0.23 | 0.33 | 48.2 |
| 4/24/2015 22:51:34 | 37.07 | 35.57 | 882 | 0.23 | 0.33 | 48.2 |
| 4/24/2015 22:51:34 | 37.40 | 35.90 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 22:51:35 | 37.73 | 36.23 | 874 | 0.18 | 0.33 | 47.8 |
| 4/24/2015 22:51:35 | 38.06 | 36.56 | 881 | 0.23 | 0.33 | 48.2 |
| 4/24/2015 22:51:36 | 38.39 | 36.89 | 879 | 0.23 | 0.35 | 48.1 |
| 4/24/2015 22:51:36 | 38.71 | 37.21 | 879 | 0.23 | 0.35 | 48.1 |
| 4/24/2015 22:51:36 | 39.04 | 37.54 | 882 | 0.23 | 0.33 | 48.2 |
| 4/24/2015 22:51:37 | 39.37 | 37.87 | 879 | 0.23 | 0.33 | 48.1 |
| 4/24/2015 22:51:38 | 39.70 | 38.20 | 890 | 0.23 | 0.33 | 48.7 |
| 4/24/2015 22:51:38 | 40.03 | 38.53 | 890 | 0.23 | 0.33 | 48.7 |
| 4/24/2015 22:51:38 | 40.35 | 38.85 | 890 | 0.24 | 0.34 | 48.7 |
| 4/24/2015 22:51:39 | 40.68 | 39.18 | 893 | 0.23 | 0.33 | 48.9 |
| 4/24/2015 22:51:39 | 41.01 | 39.51 | 888 | 0.23 | 0.32 | 48.5 |
| 4/24/2015 22:51:40 | 41.34 | 39.84 | 888 | 0.24 | 0.33 | 48.5 |
| 4/24/2015 22:51:40 | 41.67 | 40.17 | 888 | 0.24 | 0.33 | 48.5 |
| 4/24/2015 22:51:40 | 41.99 | 40.49 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 22:51:41 | 42.32 | 40.82 | 888 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 22:51:41 | 42.65 | 41.15 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 22:51:42 | 42.98 | 41.48 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 22:51:42 | 43.31 | 41.81 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 22:51:42 | 43.64 | 42.14 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 22:51:43 | 43.96 | 42.46 | 887 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 22:51:43 | 44.29 | 42.79 | 887 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 22:51:43 | 44.62 | 43.12 | 879 | 0.22 | 0.33 | 48.1 |
| 4/24/2015 22:51:44 | 44.95 | 43.45 | 879 | 0.22 | 0.33 | 48.1 |
| 4/24/2015 22:51:44 | 45.28 | 43.78 | 894 | 0.22 | 0.33 | 48.9 |
| 4/24/2015 22:51:45 | 45.60 | 44.10 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 22:51:45 | 45.93 | 44.43 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 22:51:45 | 46.26 | 44.76 | 873 | 0.22 | 0.33 | 47.7 |
| 4/24/2015 22:51:46 | 46.59 | 45.09 | 870 | 0.22 | 0.32 | 47.6 |
| 4/24/2015 22:51:46 | 46.92 | 45.42 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 22:51:47 | 47.24 | 45.74 | 864 | 0.22 | 0.33 | 47.3 |
| 4/24/2015 22:51:48 | 47.57 | 46.07 | 864 | 0.22 | 0.33 | 47.3 |
| 4/24/2015 22:51:47 | 47.90 | 46.40 | 864 | 0.23 | 0.33 | 47.3 |
| 4/24/2015 22:51:48 | 48.23 | 46.73 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 22:51:49 | 48.56 | 47.06 | 873 | 0.24 | 0.33 | 47.7 |
| 4/24/2015 22:51:49 | 48.88 | 47.38 | 873 | 0.24 | 0.33 | 47.7 |
| 4/24/2015 22:51:49 | 49.21 | 47.71 | 870 | 0.23 | 0.33 | 47.6 |
| 4/24/2015 22:51:50 | 49.54 | 48.04 | 870 | 0.22 | 0.35 | 47.6 |
| 4/24/2015 22:51:50 | 49.87 | 48.37 | 856 | 0.20 | 0.37 | 46.8 |
| 4/24/2015 22:52:17 | 50.20 | 48.70 | 0 | 3.85 | 0.38 | 0.0 |
| 4/24/2015 22:52:20 | 50.53 | 49.03 | 142 | 4.22 | 0.40 | 7.7 |
| 4/24/2015 22:52:24 | 50.85 | 49.35 | 64 | 5.08 | 0.40 | 3.5 |
| 4/24/2015 22:52:32 | 51.18 | 49.68 | 53 | 4.78 | 0.41 | 2.9 |
| 4/24/2015 22:52:34 | 51.51 | 50.01 | 113 | 3.31 | 0.39 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:52:37 | 51.84 | 50.34 | 116 | 3.16 | 0.39 | 6.3 |
| 4/24/2015 | 22:52:41 | 52.17 | 50.67 | 104 | 4.28 | 0.40 | 5.7 |
| 4/24/2015 | 22:52:45 | 52.49 | 50.99 | 82 | 5.24 | 0.39 | 4.5 |
| 4/24/2015 | 22:52:47 | 52.82 | 51.32 | 161 | 6.53 | 0.39 | 8.8 |
| 4/24/2015 | 22:52:48 | 53.15 | 51.65 | 226 | 3.39 | 0.38 | 12.3 |
| 4/24/2015 | 22:52:50 | 53.48 | 51.98 | 263 | 3.88 | 0.39 | 14.4 |
| 4/24/2015 | 22:52:53 | 53.81 | 52.31 | 127 | 4.17 | 0.39 | 7.0 |
| 4/24/2015 | 22:52:55 | 54.13 | 52.63 | 144 | 3.74 | 0.39 | 7.9 |
| 4/24/2015 | 22:52:56 | 54.46 | 52.96 | 189 | 3.94 | 0.38 | 10.3 |
| 4/24/2015 | 22:52:58 | 54.79 | 53.29 | 209 | 5.31 | 0.40 | 11.4 |
| 4/24/2015 | 22:53:02 | 55.12 | 53.62 | 124 | 4.56 | 0.39 | 6.8 |
| 4/24/2015 | 22:53:04 | 55.45 | 53.95 | 126 | 4.21 | 0.41 | 6.9 |
| 4/24/2015 | 22:53:12 | 55.77 | 54.27 | 18 | 5.52 | 0.40 | 1.0 |
| 4/24/2015 | 22:53:15 | 56.10 | 54.60 | 110 | 3.99 | 0.40 | 6.0 |
| 4/24/2015 | 22:53:19 | 56.43 | 54.93 | 98 | 4.51 | 0.39 | 5.3 |
| 4/24/2015 | 22:53:20 | 56.67 | 55.17 | 118 | 4.02 | 0.40 | 6.4 |

## H193 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:48:55

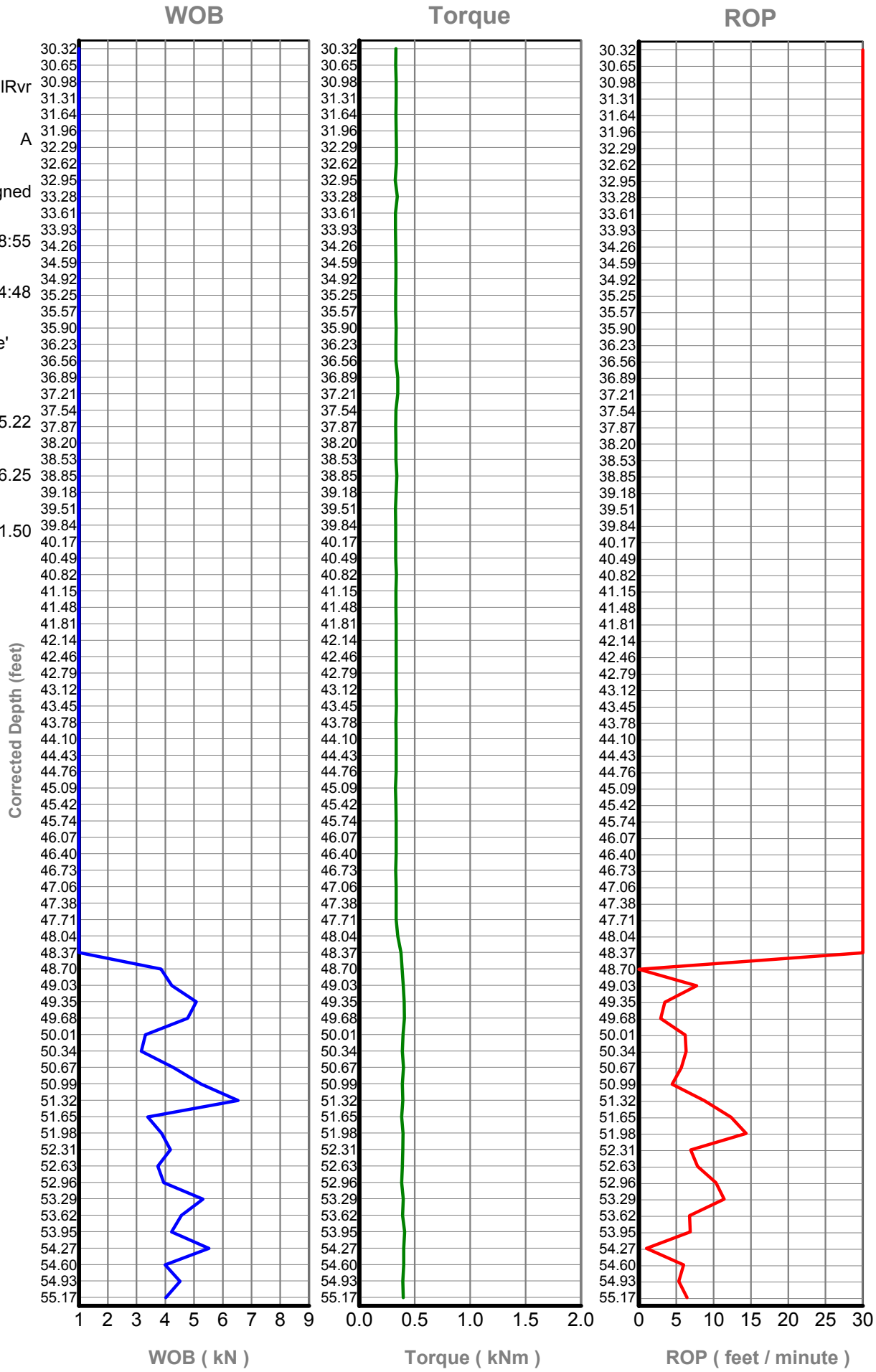
**End Date:**
4/24/2015 22:54:48

**Operator Note:**
'1.5 1.6 b Auto Complete'

**Northing:**
366,775.22

**Easting:**
250,946.25

**Tide (feet):**
1.50



## Hole: H194 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:59:17 | 31.50 | 30.20 | 848 | 0.96 | 0.32 | 46.3 |
| 4/24/2015 22:59:17 | 31.82 | 30.52 | 864 | 1.02 | 0.32 | 47.2 |
| 4/24/2015 22:59:18 | 32.15 | 30.85 | 848 | 0.95 | 0.33 | 46.4 |
| 4/24/2015 22:59:18 | 32.48 | 31.18 | 856 | 0.94 | 0.33 | 46.8 |
| 4/24/2015 22:59:19 | 32.81 | 31.51 | 856 | 0.94 | 0.33 | 46.8 |
| 4/24/2015 22:59:19 | 33.14 | 31.84 | 851 | 0.96 | 0.32 | 46.5 |
| 4/24/2015 22:59:19 | 33.46 | 32.16 | 859 | 0.96 | 0.33 | 47.0 |
| 4/24/2015 22:59:20 | 33.79 | 32.49 | 853 | 0.96 | 0.33 | 46.7 |
| 4/24/2015 22:59:20 | 34.12 | 32.82 | 858 | 0.96 | 0.33 | 46.9 |
| 4/24/2015 22:59:21 | 34.45 | 33.15 | 858 | 0.96 | 0.33 | 46.9 |
| 4/24/2015 22:59:21 | 34.78 | 33.48 | 853 | 0.21 | 0.33 | 46.6 |
| 4/24/2015 22:59:21 | 35.11 | 33.81 | 861 | 0.20 | 0.33 | 47.1 |
| 4/24/2015 22:59:22 | 35.43 | 34.13 | 838 | 0.20 | 0.33 | 45.8 |
| 4/24/2015 22:59:22 | 35.76 | 34.46 | 838 | 0.21 | 0.33 | 45.8 |
| 4/24/2015 22:59:23 | 36.09 | 34.79 | 838 | 0.21 | 0.33 | 45.8 |
| 4/24/2015 22:59:23 | 36.42 | 35.12 | 835 | 0.20 | 0.33 | 45.7 |
| 4/24/2015 22:59:23 | 36.75 | 35.45 | 840 | 0.20 | 0.33 | 45.9 |
| 4/24/2015 22:59:24 | 37.07 | 35.77 | 845 | 0.20 | 0.33 | 46.2 |
| 4/24/2015 22:59:24 | 37.40 | 36.10 | 840 | 0.20 | 0.33 | 45.9 |
| 4/24/2015 22:59:25 | 37.73 | 36.43 | 855 | 0.20 | 0.32 | 46.7 |
| 4/24/2015 22:59:26 | 38.06 | 36.76 | 855 | 0.20 | 0.32 | 46.7 |
| 4/24/2015 22:59:26 | 38.39 | 37.09 | 856 | 0.20 | 0.33 | 46.8 |
| 4/24/2015 22:59:26 | 38.71 | 37.41 | 854 | 0.20 | 0.33 | 46.7 |
| 4/24/2015 22:59:27 | 39.04 | 37.74 | 839 | 0.21 | 0.33 | 45.9 |
| 4/24/2015 22:59:27 | 39.37 | 38.07 | 839 | 0.21 | 0.33 | 45.9 |
| 4/24/2015 22:59:27 | 39.70 | 38.40 | 839 | 0.20 | 0.33 | 45.9 |
| 4/24/2015 22:59:28 | 40.03 | 38.73 | 851 | 0.21 | 0.33 | 46.5 |
| 4/24/2015 22:59:28 | 40.35 | 39.05 | 850 | 0.21 | 0.32 | 46.5 |
| 4/24/2015 22:59:29 | 40.68 | 39.38 | 844 | 0.21 | 0.33 | 46.2 |
| 4/24/2015 22:59:29 | 41.01 | 39.71 | 844 | 0.21 | 0.33 | 46.2 |
| 4/24/2015 22:59:30 | 41.34 | 40.04 | 844 | 0.21 | 0.33 | 46.2 |
| 4/24/2015 22:59:30 | 41.67 | 40.37 | 862 | 0.20 | 0.33 | 47.1 |
| 4/24/2015 22:59:30 | 41.99 | 40.69 | 850 | 0.20 | 0.33 | 46.5 |
| 4/24/2015 22:59:31 | 42.32 | 41.02 | 856 | 0.20 | 0.32 | 46.8 |
| 4/24/2015 22:59:31 | 42.65 | 41.35 | 859 | 0.21 | 0.32 | 46.9 |
| 4/24/2015 22:59:32 | 42.98 | 41.68 | 859 | 0.21 | 0.32 | 46.9 |
| 4/24/2015 22:59:32 | 43.31 | 42.01 | 859 | 0.21 | 0.32 | 46.9 |
| 4/24/2015 22:59:32 | 43.64 | 42.34 | 856 | 0.21 | 0.32 | 46.8 |
| 4/24/2015 22:59:33 | 43.96 | 42.66 | 856 | 0.21 | 0.33 | 46.8 |
| 4/24/2015 22:59:33 | 44.29 | 42.99 | 851 | 0.21 | 0.33 | 46.5 |
| 4/24/2015 22:59:34 | 44.62 | 43.32 | 851 | 0.21 | 0.33 | 46.5 |
| 4/24/2015 22:59:34 | 44.95 | 43.65 | 856 | 0.20 | 0.33 | 46.8 |
| 4/24/2015 22:59:34 | 45.28 | 43.98 | 845 | 0.21 | 0.33 | 46.2 |
| 4/24/2015 22:59:35 | 45.60 | 44.30 | 848 | 0.21 | 0.33 | 46.3 |
| 4/24/2015 22:59:35 | 45.93 | 44.63 | 848 | 0.20 | 0.33 | 46.3 |
| 4/24/2015 22:59:36 | 46.26 | 44.96 | 848 | 0.20 | 0.33 | 46.3 |
| 4/24/2015 22:59:36 | 46.59 | 45.29 | 855 | 0.20 | 0.33 | 46.8 |
| 4/24/2015 22:59:37 | 46.92 | 45.62 | 848 | 0.20 | 0.33 | 46.4 |
| 4/24/2015 22:59:37 | 47.24 | 45.94 | 848 | 0.20 | 0.33 | 46.4 |
| 4/24/2015 22:59:38 | 47.57 | 46.27 | 845 | 0.20 | 0.33 | 46.2 |
| 4/24/2015 22:59:38 | 47.90 | 46.60 | 836 | 0.18 | 0.36 | 45.7 |
| 4/24/2015 22:59:55 | 48.23 | 46.93 | 0 | 3.31 | 0.36 | 0.0 |
| 4/24/2015 22:59:59 | 48.56 | 47.26 | 12 | 4.43 | 0.37 | 0.6 |
| 4/24/2015 23:00:02 | 48.88 | 47.58 | 124 | 3.72 | 0.39 | 6.8 |
| 4/24/2015 23:00:06 | 49.21 | 47.91 | 78 | 3.27 | 0.40 | 4.3 |
| 4/24/2015 23:00:11 | 49.54 | 48.24 | 101 | 3.71 | 0.39 | 5.5 |
| 4/24/2015 23:00:14 | 49.87 | 48.57 | 104 | 3.64 | 0.39 | 5.7 |
| 4/24/2015 23:00:17 | 50.20 | 48.90 | 130 | 5.04 | 0.38 | 7.1 |
| 4/24/2015 23:00:21 | 50.53 | 49.23 | 87 | 4.66 | 0.38 | 4.8 |
| 4/24/2015 23:00:25 | 50.85 | 49.55 | 84 | 4.93 | 0.39 | 4.6 |
| 4/24/2015 23:00:36 | 51.18 | 49.88 | 0 | 3.50 | 0.36 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:00:38 | 51.51 | 50.21 | 133 | 3.29 | 0.39 | 7.3 |
| 4/24/2015 | 23:00:41 | 51.84 | 50.54 | 124 | 3.86 | 0.38 | 6.8 |
| 4/24/2015 | 23:00:42 | 52.17 | 50.87 | 156 | 4.87 | 0.37 | 8.5 |
| 4/24/2015 | 23:00:43 | 52.49 | 51.19 | 265 | 3.17 | 0.36 | 14.5 |
| 4/24/2015 | 23:00:44 | 52.82 | 51.52 | 384 | 3.10 | 0.36 | 21.0 |
| 4/24/2015 | 23:00:46 | 53.15 | 51.85 | 262 | 3.35 | 0.39 | 14.3 |
| 4/24/2015 | 23:00:47 | 53.48 | 52.18 | 225 | 2.86 | 0.36 | 12.3 |
| 4/24/2015 | 23:00:47 | 53.81 | 52.51 | 251 | 2.82 | 0.35 | 13.7 |
| 4/24/2015 | 23:00:49 | 54.13 | 52.83 | 356 | 2.80 | 0.38 | 19.5 |
| 4/24/2015 | 23:00:50 | 54.46 | 53.16 | 334 | 3.33 | 0.37 | 18.2 |
| 4/24/2015 | 23:00:51 | 54.79 | 53.49 | 282 | 3.10 | 0.38 | 15.4 |
| 4/24/2015 | 23:00:55 | 55.12 | 53.82 | 84 | 4.02 | 0.39 | 4.6 |
| 4/24/2015 | 23:00:58 | 55.45 | 54.15 | 113 | 4.11 | 0.39 | 6.2 |
| 4/24/2015 | 23:01:03 | 55.77 | 54.47 | 62 | 5.06 | 0.40 | 3.4 |
| 4/24/2015 | 23:01:05 | 56.10 | 54.80 | 115 | 3.60 | 0.37 | 6.3 |
| 4/24/2015 | 23:01:06 | 56.43 | 55.13 | 241 | 3.94 | 0.39 | 13.2 |

## H194 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:56:47

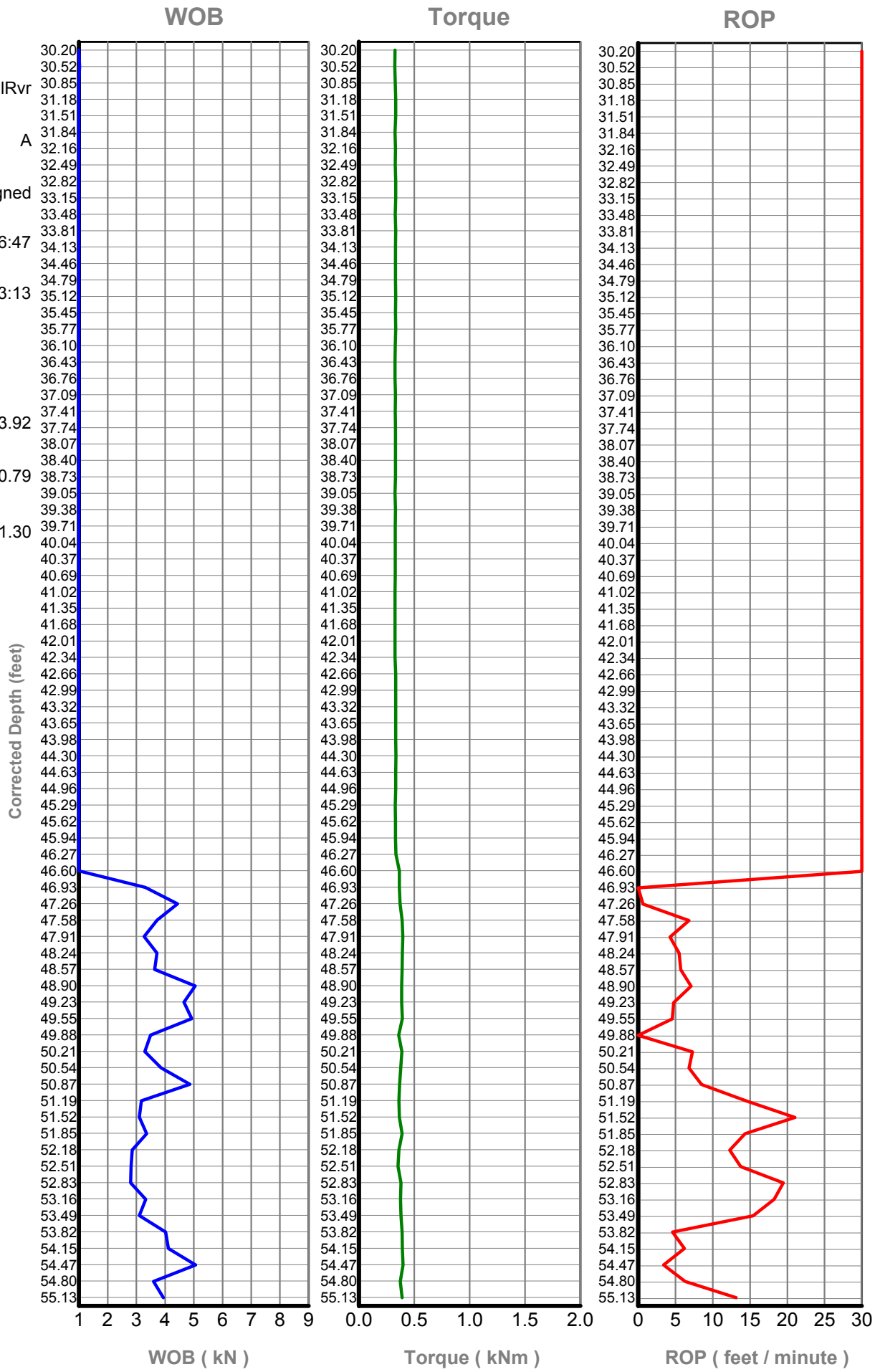
**End Date:**
4/24/2015 23:03:13

**Operator Note:**
'1.3 '0.6 1.4 b Auto Complete'

**Northing:**
366,813.92

**Easting:**
250,990.79

**Tide (feet):**
1.30



## Hole: H195 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 22:52:44 | 31.82 | 30.32 | 639 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 22:52:45 | 32.15 | 30.65 | 639 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 22:52:45 | 32.48 | 30.98 | 639 | 1.99 | 0.15 | 34.9 |
| 4/24/2015 22:52:46 | 32.81 | 31.31 | 636 | 1.98 | 0.15 | 34.8 |
| 4/24/2015 22:52:46 | 33.14 | 31.64 | 632 | 1.97 | 0.15 | 34.6 |
| 4/24/2015 22:52:47 | 33.46 | 31.96 | 639 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 22:52:47 | 33.79 | 32.29 | 633 | 1.98 | 0.15 | 34.6 |
| 4/24/2015 22:52:48 | 34.12 | 32.62 | 636 | 1.97 | 0.15 | 34.8 |
| 4/24/2015 22:52:48 | 34.45 | 32.95 | 636 | 1.98 | 0.15 | 34.8 |
| 4/24/2015 22:52:50 | 34.78 | 33.28 | 633 | 1.96 | 0.15 | 34.6 |
| 4/24/2015 22:52:50 | 35.11 | 33.61 | 620 | 1.95 | 0.15 | 33.9 |
| 4/24/2015 22:52:51 | 35.43 | 33.93 | 620 | 1.95 | 0.15 | 33.9 |
| 4/24/2015 22:52:51 | 35.76 | 34.26 | 625 | 1.98 | 0.15 | 34.2 |
| 4/24/2015 22:52:52 | 36.09 | 34.59 | 615 | 1.98 | 0.15 | 33.6 |
| 4/24/2015 22:52:52 | 36.42 | 34.92 | 611 | 1.98 | 0.15 | 33.4 |
| 4/24/2015 22:52:53 | 36.75 | 35.25 | 611 | 1.96 | 0.15 | 33.4 |
| 4/24/2015 22:52:53 | 37.07 | 35.57 | 619 | 1.98 | 0.15 | 33.9 |
| 4/24/2015 22:52:54 | 37.40 | 35.90 | 622 | 1.98 | 0.15 | 34.0 |
| 4/24/2015 22:52:54 | 37.73 | 36.23 | 614 | 1.98 | 0.15 | 33.6 |
| 4/24/2015 22:52:55 | 38.06 | 36.56 | 614 | 1.97 | 0.15 | 33.6 |
| 4/24/2015 22:52:55 | 38.39 | 36.89 | 630 | 1.98 | 0.15 | 34.4 |
| 4/24/2015 22:52:56 | 38.71 | 37.21 | 623 | 1.98 | 0.15 | 34.1 |
| 4/24/2015 22:52:57 | 39.04 | 37.54 | 615 | 1.98 | 0.15 | 33.6 |
| 4/24/2015 22:52:57 | 39.37 | 37.87 | 615 | 1.97 | 0.15 | 33.6 |
| 4/24/2015 22:52:58 | 39.70 | 38.20 | 640 | 1.97 | 0.15 | 35.0 |
| 4/24/2015 22:52:58 | 40.03 | 38.53 | 626 | 1.97 | 0.15 | 34.2 |
| 4/24/2015 22:52:59 | 40.35 | 38.85 | 626 | 1.98 | 0.15 | 34.2 |
| 4/24/2015 22:52:59 | 40.68 | 39.18 | 622 | 1.97 | 0.15 | 34.0 |
| 4/24/2015 22:53:00 | 41.01 | 39.51 | 622 | 1.98 | 0.15 | 34.0 |
| 4/24/2015 22:53:01 | 41.34 | 39.84 | 644 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 22:53:01 | 41.67 | 40.17 | 622 | 1.97 | 0.16 | 34.0 |
| 4/24/2015 22:53:02 | 41.99 | 40.49 | 613 | 1.99 | 0.15 | 33.5 |
| 4/24/2015 22:53:02 | 42.32 | 40.82 | 613 | 1.97 | 0.15 | 33.5 |
| 4/24/2015 22:53:03 | 42.65 | 41.15 | 622 | 1.98 | 0.15 | 34.0 |
| 4/24/2015 22:53:04 | 42.98 | 41.48 | 638 | 1.99 | 0.15 | 34.9 |
| 4/24/2015 22:53:04 | 43.31 | 41.81 | 623 | 1.98 | 0.15 | 34.1 |
| 4/24/2015 22:53:05 | 43.64 | 42.14 | 645 | 1.98 | 0.15 | 35.3 |
| 4/24/2015 22:53:05 | 43.96 | 42.46 | 639 | 1.98 | 0.15 | 35.0 |
| 4/24/2015 22:53:06 | 44.29 | 42.79 | 627 | 1.98 | 0.15 | 34.3 |
| 4/24/2015 22:53:06 | 44.62 | 43.12 | 614 | 1.98 | 0.15 | 33.6 |
| 4/24/2015 22:53:07 | 44.95 | 43.45 | 614 | 1.98 | 0.15 | 33.6 |
| 4/24/2015 22:53:07 | 45.28 | 43.78 | 627 | 1.98 | 0.15 | 34.3 |
| 4/24/2015 22:53:08 | 45.60 | 44.10 | 607 | 1.99 | 0.15 | 33.2 |
| 4/24/2015 22:53:08 | 45.93 | 44.43 | 610 | 1.98 | 0.15 | 33.4 |
| 4/24/2015 22:53:09 | 46.26 | 44.76 | 610 | 1.96 | 0.15 | 33.4 |
| 4/24/2015 22:53:10 | 46.59 | 45.09 | 639 | 1.96 | 0.15 | 34.9 |
| 4/24/2015 22:53:10 | 46.92 | 45.42 | 626 | 1.97 | 0.15 | 34.2 |
| 4/24/2015 22:53:48 | 47.24 | 45.74 | 32 | 1.96 | 1.57 | 1.8 |
| 4/24/2015 22:53:49 | 47.57 | 46.07 | 106 | 1.95 | 1.21 | 5.8 |
| 4/24/2015 22:54:06 | 47.90 | 46.40 | 6 | 1.82 | 1.29 | 0.3 |
| 4/24/2015 22:54:07 | 48.23 | 46.73 | 104 | 2.04 | 1.25 | 5.7 |
| 4/24/2015 22:54:18 | 48.56 | 47.06 | 46 | 2.01 | 1.49 | 2.5 |
| 4/24/2015 22:54:19 | 48.88 | 47.38 | 127 | 2.02 | 1.40 | 7.0 |
| 4/24/2015 22:54:20 | 49.21 | 47.71 | 220 | 2.02 | 1.10 | 12.0 |
| 4/24/2015 22:54:47 | 49.54 | 48.04 | 0 | 1.98 | 1.15 | 0.0 |
| 4/24/2015 22:54:59 | 49.87 | 48.37 | 85 | 1.95 | 1.15 | 4.7 |
| 4/24/2015 22:55:00 | 50.20 | 48.70 | 146 | 1.98 | 1.12 | 8.0 |
| 4/24/2015 22:55:12 | 50.53 | 49.03 | 118 | 1.98 | 1.21 | 6.5 |
| 4/24/2015 22:55:13 | 50.85 | 49.35 | 230 | 1.98 | 1.10 | 12.6 |
| 4/24/2015 22:55:16 | 51.18 | 49.68 | 182 | 1.99 | 1.20 | 10.0 |
| 4/24/2015 22:55:17 | 51.51 | 50.01 | 204 | 1.98 | 1.18 | 11.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 22:55:25 | 51.84 | 50.34 | 0 | 1.98 | 1.12 | 0.0 |
| 4/24/2015 | 22:55:27 | 52.17 | 50.67 | 153 | 1.98 | 1.09 | 8.4 |
| 4/24/2015 | 22:55:28 | 52.49 | 50.99 | 284 | 1.98 | 1.06 | 15.5 |
| 4/24/2015 | 22:55:29 | 52.82 | 51.32 | 298 | 1.96 | 1.02 | 16.3 |
| 4/24/2015 | 22:55:30 | 53.15 | 51.65 | 350 | 1.97 | 1.03 | 19.1 |
| 4/24/2015 | 22:55:48 | 53.48 | 51.98 | 106 | 1.92 | 1.28 | 5.8 |
| 4/24/2015 | 22:55:50 | 53.81 | 52.31 | 210 | 1.99 | 1.30 | 11.5 |
| 4/24/2015 | 22:55:51 | 54.13 | 52.63 | 245 | 1.98 | 1.15 | 13.4 |
| 4/24/2015 | 22:55:52 | 54.46 | 52.96 | 272 | 1.98 | 1.25 | 14.9 |
| 4/24/2015 | 22:55:53 | 54.79 | 53.29 | 255 | 1.98 | 1.19 | 13.9 |
| 4/24/2015 | 22:55:55 | 55.12 | 53.62 | 259 | 1.98 | 1.19 | 14.2 |
| 4/24/2015 | 22:55:56 | 55.45 | 53.95 | 264 | 1.94 | 1.12 | 14.4 |
| 4/24/2015 | 22:55:58 | 55.77 | 54.27 | 266 | 1.99 | 1.18 | 14.6 |
| 4/24/2015 | 22:55:59 | 56.10 | 54.60 | 261 | 2.00 | 1.20 | 14.3 |
| 4/24/2015 | 22:56:00 | 56.43 | 54.93 | 263 | 1.98 | 1.14 | 14.4 |
| 4/24/2015 | 22:56:01 | 56.63 | 55.13 | 268 | 1.74 | 1.08 | 14.6 |

## H195 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 22:51:20

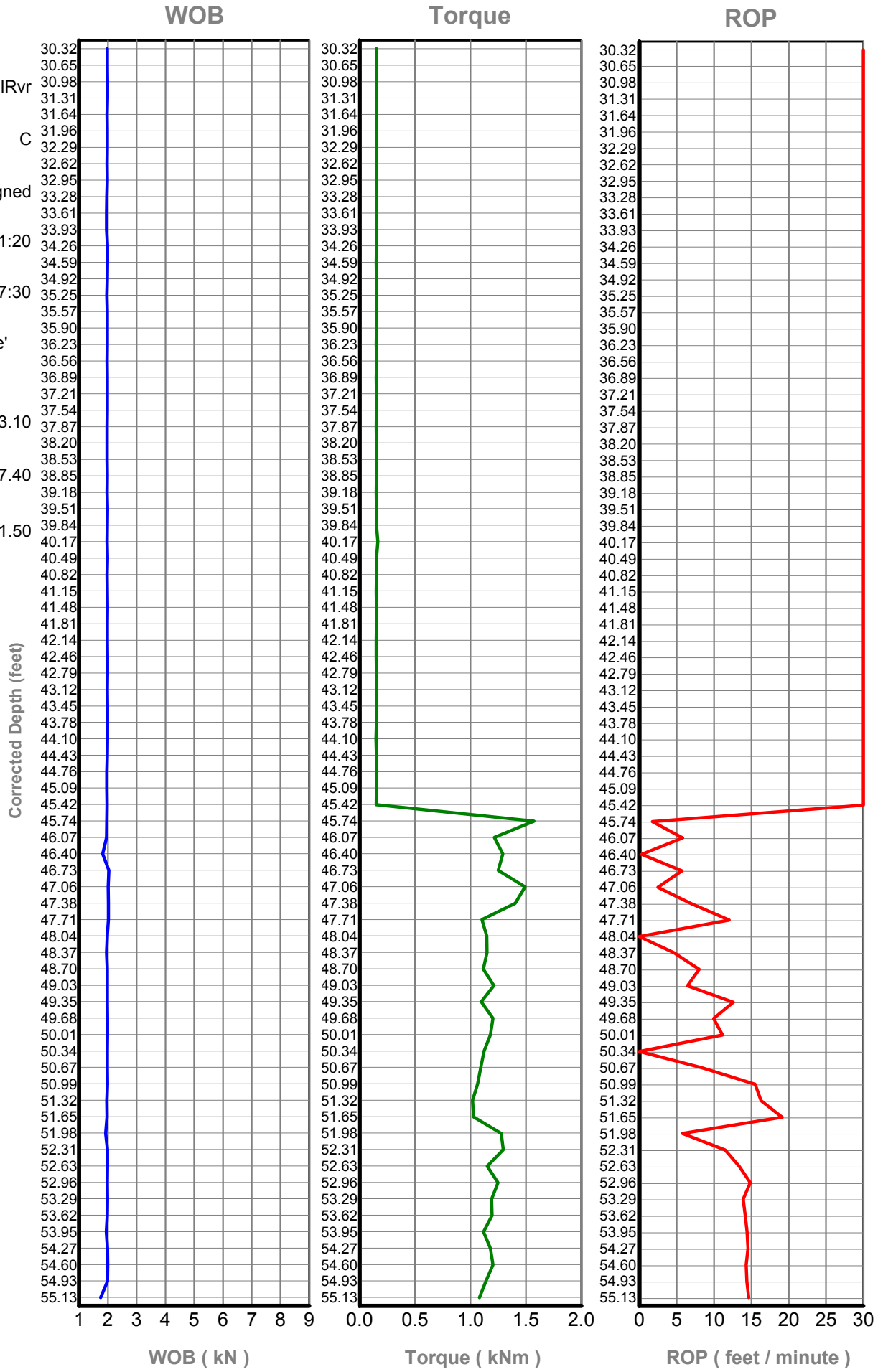
**End Date:**
4/24/2015 22:57:30

**Operator Note:**
'1.5 1.6 c Auto Complete'

**Northing:**
366,863.10

**Easting:**
251,047.40

**Tide (feet):**
1.50



## Hole: H196 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:05:00 | 32.81 | 30.31 | 902 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:05:00 | 33.14 | 30.64 | 887 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:05:01 | 33.46 | 30.96 | 887 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:05:01 | 33.79 | 31.29 | 887 | 0.34 | 0.32 | 48.5 |
| 4/24/2015 9:05:01 | 34.12 | 31.62 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:05:02 | 34.45 | 31.95 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:05:02 | 34.78 | 32.28 | 935 | 0.37 | 0.32 | 51.1 |
| 4/24/2015 9:05:02 | 35.11 | 32.61 | 935 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:05:03 | 35.43 | 32.93 | 935 | 0.35 | 0.31 | 51.1 |
| 4/24/2015 9:05:03 | 35.76 | 33.26 | 935 | 0.35 | 0.31 | 51.1 |
| 4/24/2015 9:05:03 | 36.09 | 33.59 | 962 | 0.35 | 0.32 | 52.6 |
| 4/24/2015 9:05:04 | 36.42 | 33.92 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:05:04 | 36.75 | 34.25 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:05:05 | 37.07 | 34.57 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:05:05 | 37.40 | 34.90 | 940 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:05:05 | 37.73 | 35.23 | 937 | 0.35 | 0.32 | 51.3 |
| 4/24/2015 9:05:06 | 38.06 | 35.56 | 937 | 0.35 | 0.32 | 51.3 |
| 4/24/2015 9:05:06 | 38.39 | 35.89 | 935 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:05:06 | 38.71 | 36.21 | 943 | 0.36 | 0.32 | 51.6 |
| 4/24/2015 9:05:07 | 39.04 | 36.54 | 951 | 0.35 | 0.32 | 52.0 |
| 4/24/2015 9:05:07 | 39.37 | 36.87 | 951 | 0.35 | 0.32 | 52.0 |
| 4/24/2015 9:05:08 | 39.70 | 37.20 | 945 | 0.36 | 0.32 | 51.7 |
| 4/24/2015 9:05:08 | 40.03 | 37.53 | 948 | 0.36 | 0.32 | 51.8 |
| 4/24/2015 9:05:09 | 40.35 | 37.85 | 948 | 0.36 | 0.41 | 51.9 |
| 4/24/2015 9:05:09 | 40.68 | 38.18 | 948 | 0.36 | 0.41 | 51.9 |
| 4/24/2015 9:05:09 | 41.01 | 38.51 | 948 | 0.36 | 0.32 | 51.8 |
| 4/24/2015 9:05:10 | 41.34 | 38.84 | 934 | 0.36 | 0.32 | 51.1 |
| 4/24/2015 9:05:10 | 41.67 | 39.17 | 934 | 0.36 | 0.32 | 51.1 |
| 4/24/2015 9:05:10 | 41.99 | 39.49 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:05:11 | 42.32 | 39.82 | 936 | 0.36 | 0.32 | 51.2 |
| 4/24/2015 9:05:11 | 42.65 | 40.15 | 939 | 0.35 | 0.32 | 51.3 |
| 4/24/2015 9:05:12 | 42.98 | 40.48 | 939 | 0.35 | 0.32 | 51.3 |
| 4/24/2015 9:05:12 | 43.31 | 40.81 | 931 | 0.39 | 0.32 | 50.9 |
| 4/24/2015 9:05:12 | 43.64 | 41.14 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:05:13 | 43.96 | 41.46 | 947 | 0.37 | 0.32 | 51.8 |
| 4/24/2015 9:05:13 | 44.29 | 41.79 | 947 | 0.37 | 0.32 | 51.8 |
| 4/24/2015 9:05:13 | 44.62 | 42.12 | 946 | 0.38 | 0.32 | 51.7 |
| 4/24/2015 9:05:14 | 44.95 | 42.45 | 940 | 0.40 | 0.32 | 51.4 |
| 4/24/2015 9:05:14 | 45.28 | 42.78 | 940 | 0.40 | 0.32 | 51.4 |
| 4/24/2015 9:05:14 | 45.60 | 43.10 | 948 | 0.40 | 0.32 | 51.8 |
| 4/24/2015 9:05:15 | 45.93 | 43.43 | 938 | 0.39 | 0.33 | 51.3 |
| 4/24/2015 9:05:15 | 46.26 | 43.76 | 923 | 0.39 | 0.32 | 50.5 |
| 4/24/2015 9:05:16 | 46.59 | 44.09 | 908 | 0.39 | 0.32 | 49.6 |
| 4/24/2015 9:05:16 | 46.92 | 44.42 | 908 | 0.39 | 0.32 | 49.6 |
| 4/24/2015 9:05:16 | 47.24 | 44.74 | 907 | 0.39 | 0.32 | 49.6 |
| 4/24/2015 9:05:17 | 47.57 | 45.07 | 899 | 0.40 | 0.33 | 49.2 |
| 4/24/2015 9:05:17 | 47.90 | 45.40 | 910 | 0.41 | 0.32 | 49.8 |
| 4/24/2015 9:05:18 | 48.23 | 45.73 | 910 | 0.41 | 0.32 | 49.8 |
| 4/24/2015 9:05:18 | 48.56 | 46.06 | 910 | 0.40 | 0.32 | 49.8 |
| 4/24/2015 9:05:19 | 48.88 | 46.38 | 908 | 0.41 | 0.32 | 49.6 |
| 4/24/2015 9:05:19 | 49.21 | 46.71 | 900 | 0.40 | 0.34 | 49.2 |
| 4/24/2015 9:05:20 | 49.54 | 47.04 | 900 | 0.40 | 0.34 | 49.2 |
| 4/24/2015 9:05:31 | 49.87 | 47.37 | 40 | 5.39 | 0.41 | 2.2 |
| 4/24/2015 9:05:34 | 50.20 | 47.70 | 84 | 6.73 | 0.38 | 4.6 |
| 4/24/2015 9:05:37 | 50.53 | 48.03 | 127 | 3.54 | 0.36 | 6.9 |
| 4/24/2015 9:05:37 | 50.85 | 48.35 | 127 | 3.03 | 0.35 | 6.9 |
| 4/24/2015 9:05:38 | 51.18 | 48.68 | 209 | 3.47 | 0.35 | 11.4 |
| 4/24/2015 9:05:43 | 51.51 | 49.01 | 115 | 2.99 | 0.37 | 6.3 |
| 4/24/2015 9:05:44 | 51.84 | 49.34 | 213 | 2.82 | 0.37 | 11.6 |
| 4/24/2015 9:05:45 | 52.17 | 49.67 | 363 | 2.59 | 0.36 | 19.8 |
| 4/24/2015 9:05:46 | 52.49 | 49.99 | 377 | 2.46 | 0.35 | 20.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:05:46 | 52.82 | 50.32 | 427 | 2.52 | 0.36 | 23.4 |
| 4/24/2015 | 9:05:47 | 53.15 | 50.65 | 509 | 2.52 | 0.35 | 27.8 |
| 4/24/2015 | 9:05:47 | 53.48 | 50.98 | 535 | 2.46 | 0.36 | 29.3 |
| 4/24/2015 | 9:05:54 | 53.81 | 51.31 | 113 | 4.19 | 0.39 | 6.2 |
| 4/24/2015 | 9:05:57 | 54.13 | 51.63 | 108 | 3.56 | 0.38 | 5.9 |
| 4/24/2015 | 9:06:01 | 54.46 | 51.96 | 82 | 3.94 | 0.39 | 4.5 |
| 4/24/2015 | 9:06:06 | 54.79 | 52.29 | 75 | 3.52 | 0.39 | 4.1 |
| 4/24/2015 | 9:06:13 | 55.12 | 52.62 | 60 | 3.33 | 0.39 | 3.3 |
| 4/24/2015 | 9:06:18 | 55.45 | 52.95 | 58 | 3.89 | 0.40 | 3.2 |
| 4/24/2015 | 9:06:24 | 55.77 | 53.27 | 60 | 4.76 | 0.39 | 3.3 |

## H196 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:03:06

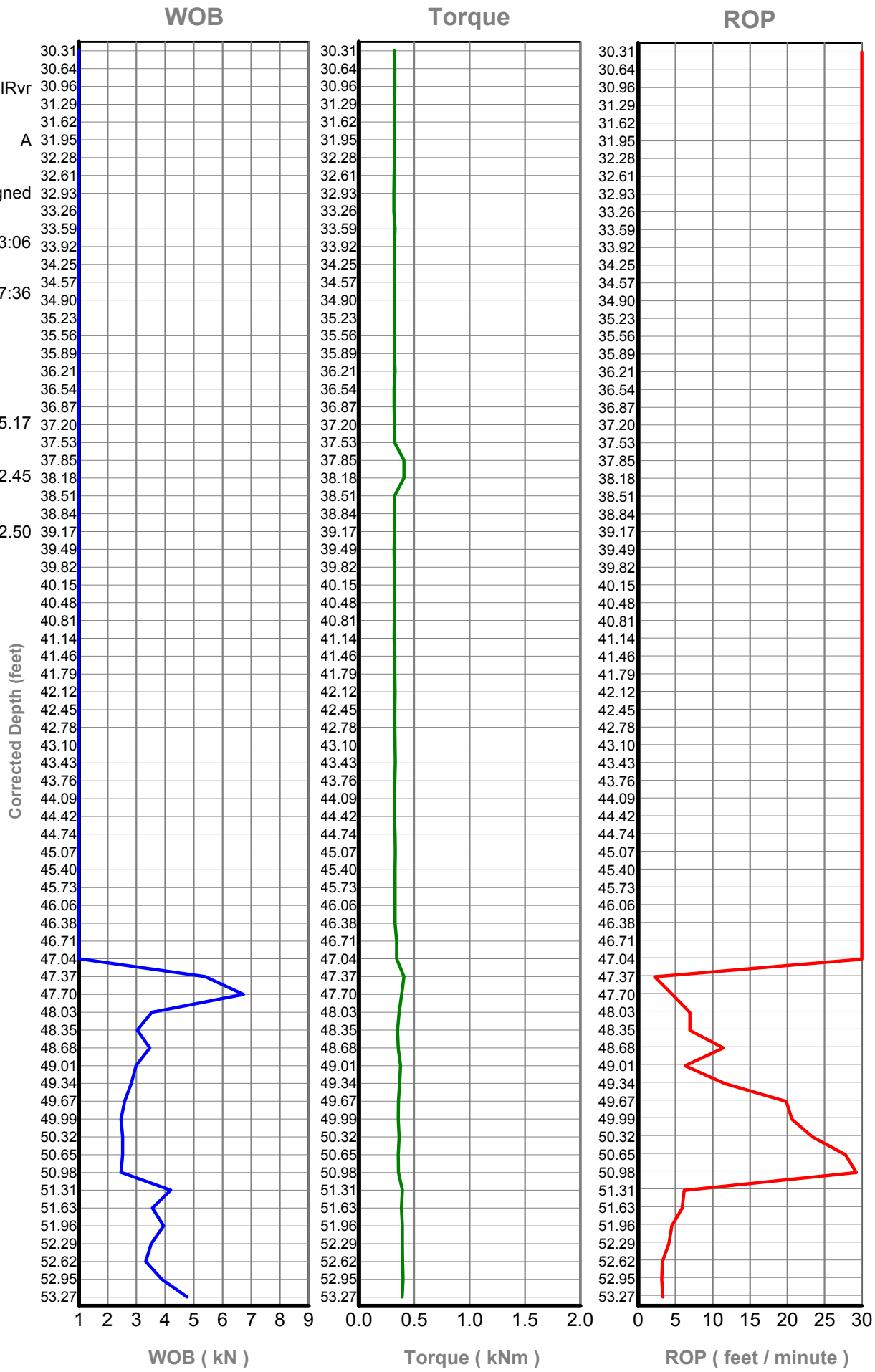
**End Date:**
4/24/2015 9:07:36

**Operator Note:**
'2.5 2.5 b Rock'

**Northing:**
366,925.17

**Easting:**
251,122.45

**Tide (feet):**
2.50



## Hole: H197 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:00:17 | 32.81 | 30.31 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:00:18 | 33.14 | 30.64 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:00:18 | 33.46 | 30.96 | 933 | 0.35 | 0.32 | 51.0 |
| 4/24/2015 9:00:18 | 33.79 | 31.29 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:00:19 | 34.12 | 31.62 | 959 | 0.12 | 0.32 | 52.4 |
| 4/24/2015 9:00:19 | 34.45 | 31.95 | 959 | 0.12 | 0.32 | 52.4 |
| 4/24/2015 9:00:19 | 34.78 | 32.28 | 935 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:00:20 | 35.11 | 32.61 | 935 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:00:20 | 35.43 | 32.93 | 940 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:00:21 | 35.76 | 33.26 | 940 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:00:21 | 36.09 | 33.59 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:00:21 | 36.42 | 33.92 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:00:22 | 36.75 | 34.25 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 9:00:22 | 37.07 | 34.57 | 937 | 0.34 | 0.32 | 51.2 |
| 4/24/2015 9:00:22 | 37.40 | 34.90 | 944 | 0.34 | 0.32 | 51.6 |
| 4/24/2015 9:00:23 | 37.73 | 35.23 | 928 | 0.34 | 0.32 | 50.7 |
| 4/24/2015 9:00:23 | 38.06 | 35.56 | 928 | 0.34 | 0.32 | 50.7 |
| 4/24/2015 9:00:23 | 38.39 | 35.89 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:00:24 | 38.71 | 36.21 | 931 | 0.34 | 0.32 | 50.9 |
| 4/24/2015 9:00:24 | 39.04 | 36.54 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:00:25 | 39.37 | 36.87 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 9:00:25 | 39.70 | 37.20 | 934 | 0.33 | 0.32 | 51.1 |
| 4/24/2015 9:00:25 | 40.03 | 37.53 | 945 | 0.34 | 0.32 | 51.7 |
| 4/24/2015 9:00:26 | 40.35 | 37.85 | 945 | 0.34 | 0.32 | 51.7 |
| 4/24/2015 9:00:26 | 40.68 | 38.18 | 945 | 0.35 | 0.33 | 51.7 |
| 4/24/2015 9:00:27 | 41.01 | 38.51 | 942 | 0.35 | 0.32 | 51.5 |
| 4/24/2015 9:00:27 | 41.34 | 38.84 | 939 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:00:28 | 41.67 | 39.17 | 939 | 0.35 | 0.32 | 51.4 |
| 4/24/2015 9:00:28 | 41.99 | 39.49 | 939 | 0.35 | 0.34 | 51.4 |
| 4/24/2015 9:00:28 | 42.32 | 39.82 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 9:00:29 | 42.65 | 40.15 | 931 | 0.35 | 0.33 | 50.9 |
| 4/24/2015 9:00:29 | 42.98 | 40.48 | 931 | 0.35 | 0.33 | 50.9 |
| 4/24/2015 9:00:29 | 43.31 | 40.81 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:00:30 | 43.64 | 41.14 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 9:00:30 | 43.96 | 41.46 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:00:31 | 44.29 | 41.79 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:00:31 | 44.62 | 42.12 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 9:00:31 | 44.95 | 42.45 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 9:00:32 | 45.28 | 42.78 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:00:32 | 45.60 | 43.10 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:00:32 | 45.93 | 43.43 | 911 | 0.35 | 0.33 | 49.8 |
| 4/24/2015 9:00:33 | 46.26 | 43.76 | 905 | 0.60 | 0.33 | 49.5 |
| 4/24/2015 9:00:33 | 46.59 | 44.09 | 910 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:00:34 | 46.92 | 44.42 | 910 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 9:00:34 | 47.24 | 44.74 | 914 | 0.35 | 0.32 | 50.0 |
| 4/24/2015 9:00:34 | 47.57 | 45.07 | 913 | 0.36 | 0.33 | 49.9 |
| 4/24/2015 9:00:35 | 47.90 | 45.40 | 933 | 0.35 | 0.32 | 51.0 |
| 4/24/2015 9:00:35 | 48.23 | 45.73 | 933 | 0.35 | 0.32 | 51.0 |
| 4/24/2015 9:00:35 | 48.56 | 46.06 | 923 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 9:00:36 | 48.88 | 46.38 | 923 | 0.36 | 0.32 | 50.5 |
| 4/24/2015 9:00:36 | 49.21 | 46.71 | 904 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 9:00:37 | 49.54 | 47.04 | 904 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 9:00:37 | 49.87 | 47.37 | 904 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 9:00:45 | 50.20 | 47.70 | 0 | 4.03 | 0.35 | 0.0 |
| 4/24/2015 9:00:46 | 50.53 | 48.03 | 119 | 4.53 | 0.39 | 6.5 |
| 4/24/2015 9:00:49 | 50.85 | 48.35 | 206 | 3.53 | 0.37 | 11.3 |
| 4/24/2015 9:00:52 | 51.18 | 48.68 | 98 | 3.57 | 0.36 | 5.4 |
| 4/24/2015 9:00:52 | 51.51 | 49.01 | 161 | 5.44 | 0.36 | 8.8 |
| 4/24/2015 9:00:57 | 51.84 | 49.34 | 59 | 2.76 | 0.36 | 3.2 |
| 4/24/2015 9:00:59 | 52.17 | 49.67 | 242 | 3.41 | 0.38 | 13.2 |
| 4/24/2015 9:01:00 | 52.49 | 49.99 | 316 | 3.09 | 0.38 | 17.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:01:02 | 52.82 | 50.32 | 231 | 3.93 | 0.39 | 12.6 |
| 4/24/2015 | 9:01:03 | 53.15 | 50.65 | 228 | 4.02 | 0.39 | 12.5 |
| 4/24/2015 | 9:01:08 | 53.48 | 50.98 | 44 | 4.47 | 0.39 | 2.4 |
| 4/24/2015 | 9:01:10 | 53.81 | 51.31 | 170 | 3.92 | 0.38 | 9.3 |
| 4/24/2015 | 9:01:11 | 54.13 | 51.63 | 237 | 4.07 | 0.36 | 12.9 |
| 4/24/2015 | 9:01:20 | 54.46 | 51.96 | 67 | 4.32 | 0.38 | 3.7 |
| 4/24/2015 | 9:01:21 | 54.79 | 52.29 | 163 | 3.01 | 0.37 | 8.9 |
| 4/24/2015 | 9:01:22 | 55.12 | 52.62 | 274 | 2.73 | 0.36 | 15.0 |
| 4/24/2015 | 9:01:23 | 55.45 | 52.95 | 348 | 2.76 | 0.36 | 19.0 |
| 4/24/2015 | 9:01:23 | 55.77 | 53.27 | 422 | 2.61 | 0.36 | 23.1 |
| 4/24/2015 | 9:01:24 | 56.10 | 53.60 | 500 | 2.62 | 0.36 | 27.4 |
| 4/24/2015 | 9:01:25 | 56.43 | 53.93 | 494 | 2.69 | 0.36 | 27.0 |
| 4/24/2015 | 9:01:26 | 56.76 | 54.26 | 483 | 3.07 | 0.39 | 26.4 |
| 4/24/2015 | 9:01:27 | 57.09 | 54.59 | 411 | 3.62 | 0.36 | 22.5 |
| 4/24/2015 | 9:01:27 | 57.41 | 54.91 | 408 | 3.58 | 0.36 | 22.3 |
| 4/24/2015 | 9:01:28 | 57.62 | 55.12 | 394 | 4.97 | 0.39 | 21.5 |

## H197 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:58:16

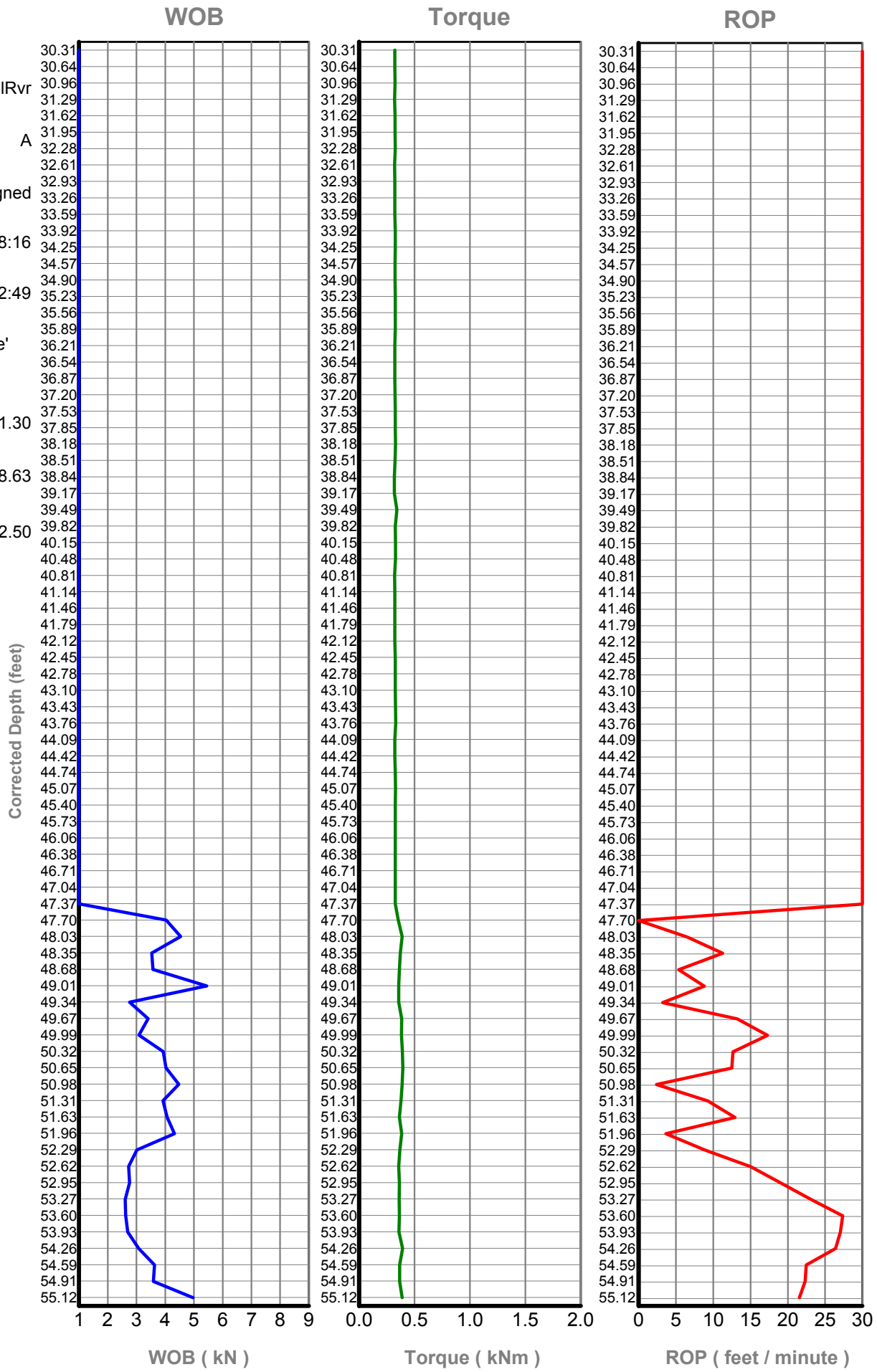
**End Date:**
4/24/2015 9:02:49

**Operator Note:**
'2.5 2.6 b Auto Complete'

**Northing:**
366,961.30

**Easting:**
251,168.63

**Tide (feet):**
2.50



## Hole: H198 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:02:11 | 32.81 | 30.31 | 618 | 2.00 | 0.32 | 33.8 |
| 4/24/2015 9:02:12 | 33.14 | 30.64 | 614 | 2.00 | 0.33 | 33.6 |
| 4/24/2015 9:02:12 | 33.46 | 30.96 | 605 | 1.99 | 0.33 | 33.1 |
| 4/24/2015 9:02:13 | 33.79 | 31.29 | 618 | 1.98 | 0.32 | 33.8 |
| 4/24/2015 9:02:14 | 34.12 | 31.62 | 621 | 1.98 | 0.32 | 34.0 |
| 4/24/2015 9:02:15 | 34.45 | 31.95 | 617 | 1.98 | 0.33 | 33.8 |
| 4/24/2015 9:02:15 | 34.78 | 32.28 | 612 | 2.00 | 0.33 | 33.4 |
| 4/24/2015 9:02:16 | 35.11 | 32.61 | 618 | 1.99 | 0.33 | 33.8 |
| 4/24/2015 9:02:16 | 35.43 | 32.93 | 597 | 1.99 | 0.33 | 32.7 |
| 4/24/2015 9:02:17 | 35.76 | 33.26 | 597 | 1.98 | 0.33 | 32.7 |
| 4/24/2015 9:02:17 | 36.09 | 33.59 | 596 | 1.98 | 0.33 | 32.6 |
| 4/24/2015 9:02:18 | 36.42 | 33.92 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:02:19 | 36.75 | 34.25 | 615 | 1.98 | 0.32 | 33.6 |
| 4/24/2015 9:02:19 | 37.07 | 34.57 | 615 | 1.98 | 0.33 | 33.6 |
| 4/24/2015 9:02:20 | 37.40 | 34.90 | 614 | 1.98 | 0.32 | 33.6 |
| 4/24/2015 9:02:20 | 37.73 | 35.23 | 614 | 2.00 | 0.32 | 33.6 |
| 4/24/2015 9:02:21 | 38.06 | 35.56 | 609 | 1.96 | 0.32 | 33.3 |
| 4/24/2015 9:02:21 | 38.39 | 35.89 | 609 | 1.99 | 0.32 | 33.3 |
| 4/24/2015 9:02:22 | 38.71 | 36.21 | 609 | 1.99 | 0.32 | 33.3 |
| 4/24/2015 9:02:22 | 39.04 | 36.54 | 618 | 2.00 | 0.32 | 33.8 |
| 4/24/2015 9:02:23 | 39.37 | 36.87 | 609 | 1.98 | 0.32 | 33.3 |
| 4/24/2015 9:02:24 | 39.70 | 37.20 | 625 | 2.00 | 0.32 | 34.2 |
| 4/24/2015 9:02:24 | 40.03 | 37.53 | 625 | 2.00 | 0.32 | 34.2 |
| 4/24/2015 9:02:25 | 40.35 | 37.85 | 613 | 2.00 | 0.32 | 33.5 |
| 4/24/2015 9:02:26 | 40.68 | 38.18 | 609 | 1.99 | 0.32 | 33.3 |
| 4/24/2015 9:02:26 | 41.01 | 38.51 | 615 | 1.93 | 0.32 | 33.6 |
| 4/24/2015 9:02:27 | 41.34 | 38.84 | 616 | 1.98 | 0.32 | 33.7 |
| 4/24/2015 9:02:27 | 41.67 | 39.17 | 613 | 2.03 | 0.32 | 33.5 |
| 4/24/2015 9:02:28 | 41.99 | 39.49 | 613 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:02:29 | 42.32 | 39.82 | 613 | 1.99 | 0.32 | 33.5 |
| 4/24/2015 9:02:29 | 42.65 | 40.15 | 610 | 1.98 | 0.32 | 33.4 |
| 4/24/2015 9:02:30 | 42.98 | 40.48 | 613 | 1.99 | 0.32 | 33.5 |
| 4/24/2015 9:02:30 | 43.31 | 40.81 | 616 | 1.98 | 0.32 | 33.7 |
| 4/24/2015 9:02:31 | 43.64 | 41.14 | 613 | 1.99 | 0.32 | 33.5 |
| 4/24/2015 9:02:31 | 43.96 | 41.46 | 613 | 1.99 | 0.32 | 33.5 |
| 4/24/2015 9:02:32 | 44.29 | 41.79 | 613 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:02:32 | 44.62 | 42.12 | 613 | 1.98 | 0.32 | 33.5 |
| 4/24/2015 9:02:33 | 44.95 | 42.45 | 610 | 1.99 | 0.32 | 33.4 |
| 4/24/2015 9:02:34 | 45.28 | 42.78 | 610 | 1.99 | 0.32 | 33.4 |
| 4/24/2015 9:02:34 | 45.60 | 43.10 | 594 | 1.98 | 0.32 | 32.5 |
| 4/24/2015 9:02:35 | 45.93 | 43.43 | 594 | 2.00 | 0.32 | 32.5 |
| 4/24/2015 9:02:36 | 46.26 | 43.76 | 603 | 2.00 | 0.33 | 33.0 |
| 4/24/2015 9:02:36 | 46.59 | 44.09 | 600 | 1.99 | 0.32 | 32.8 |
| 4/24/2015 9:02:37 | 46.92 | 44.42 | 607 | 1.98 | 0.32 | 33.2 |
| 4/24/2015 9:02:37 | 47.24 | 44.74 | 607 | 1.99 | 0.32 | 33.2 |
| 4/24/2015 9:02:38 | 47.57 | 45.07 | 626 | 2.00 | 0.32 | 34.2 |
| 4/24/2015 9:02:39 | 47.90 | 45.40 | 614 | 1.98 | 0.32 | 33.6 |
| 4/24/2015 9:02:39 | 48.23 | 45.73 | 600 | 2.00 | 0.31 | 32.8 |
| 4/24/2015 9:02:40 | 48.56 | 46.06 | 600 | 1.98 | 0.32 | 32.8 |
| 4/24/2015 9:02:40 | 48.88 | 46.38 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:02:41 | 49.21 | 46.71 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:03:03 | 49.54 | 47.04 | 0 | 1.97 | 1.15 | 0.0 |
| 4/24/2015 9:03:04 | 49.87 | 47.37 | 129 | 1.98 | 1.10 | 7.1 |
| 4/24/2015 9:03:06 | 50.20 | 47.70 | 214 | 1.97 | 1.40 | 11.7 |
| 4/24/2015 9:03:14 | 50.53 | 48.03 | 26 | 1.98 | 1.43 | 1.4 |
| 4/24/2015 9:03:18 | 50.85 | 48.35 | 74 | 1.98 | 1.18 | 4.1 |
| 4/24/2015 9:03:20 | 51.18 | 48.68 | 203 | 1.99 | 1.36 | 11.1 |
| 4/24/2015 9:03:21 | 51.51 | 49.01 | 257 | 1.97 | 1.17 | 14.1 |
| 4/24/2015 9:03:22 | 51.84 | 49.34 | 289 | 1.98 | 1.31 | 15.8 |
| 4/24/2015 9:03:23 | 52.17 | 49.67 | 321 | 2.02 | 1.12 | 17.5 |
| 4/24/2015 9:03:24 | 52.49 | 49.99 | 303 | 1.98 | 1.12 | 16.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 9:03:40 | 52.82 | 50.32 | 30 | 1.97 | 1.26 | 1.6 |
| 4/24/2015 | 9:03:43 | 53.15 | 50.65 | 144 | 1.96 | 1.21 | 7.9 |
| 4/24/2015 | 9:03:44 | 53.48 | 50.98 | 193 | 2.00 | 1.20 | 10.5 |
| 4/24/2015 | 9:03:46 | 53.81 | 51.31 | 208 | 1.98 | 1.27 | 11.4 |
| 4/24/2015 | 9:03:53 | 54.13 | 51.63 | 49 | 2.00 | 1.19 | 2.7 |
| 4/24/2015 | 9:04:00 | 54.46 | 51.96 | 55 | 1.99 | 1.22 | 3.0 |
| 4/24/2015 | 9:04:04 | 54.79 | 52.29 | 77 | 1.98 | 1.16 | 4.2 |
| 4/24/2015 | 9:04:06 | 55.12 | 52.62 | 125 | 1.98 | 1.17 | 6.9 |
| 4/24/2015 | 9:04:08 | 55.45 | 52.95 | 198 | 1.99 | 1.53 | 10.9 |
| 4/24/2015 | 9:04:12 | 55.77 | 53.27 | 113 | 1.96 | 1.13 | 6.2 |
| 4/24/2015 | 9:04:13 | 56.10 | 53.60 | 209 | 2.00 | 1.25 | 11.4 |
| 4/24/2015 | 9:04:18 | 56.43 | 53.93 | 62 | 1.98 | 1.17 | 3.4 |
| 4/24/2015 | 9:04:25 | 56.76 | 54.26 | 50 | 2.00 | 1.21 | 2.7 |
| 4/24/2015 | 9:04:32 | 57.09 | 54.59 | 48 | 2.00 | 1.23 | 2.7 |
| 4/24/2015 | 9:04:37 | 57.41 | 54.91 | 67 | 1.98 | 1.19 | 3.7 |
| 4/24/2015 | 9:04:39 | 57.74 | 55.24 | 149 | 1.98 | 1.11 | 8.1 |
| 4/24/2015 | 9:04:40 | 57.89 | 55.39 | 195 | 2.00 | 1.23 | 10.7 |

## H198 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:00:35

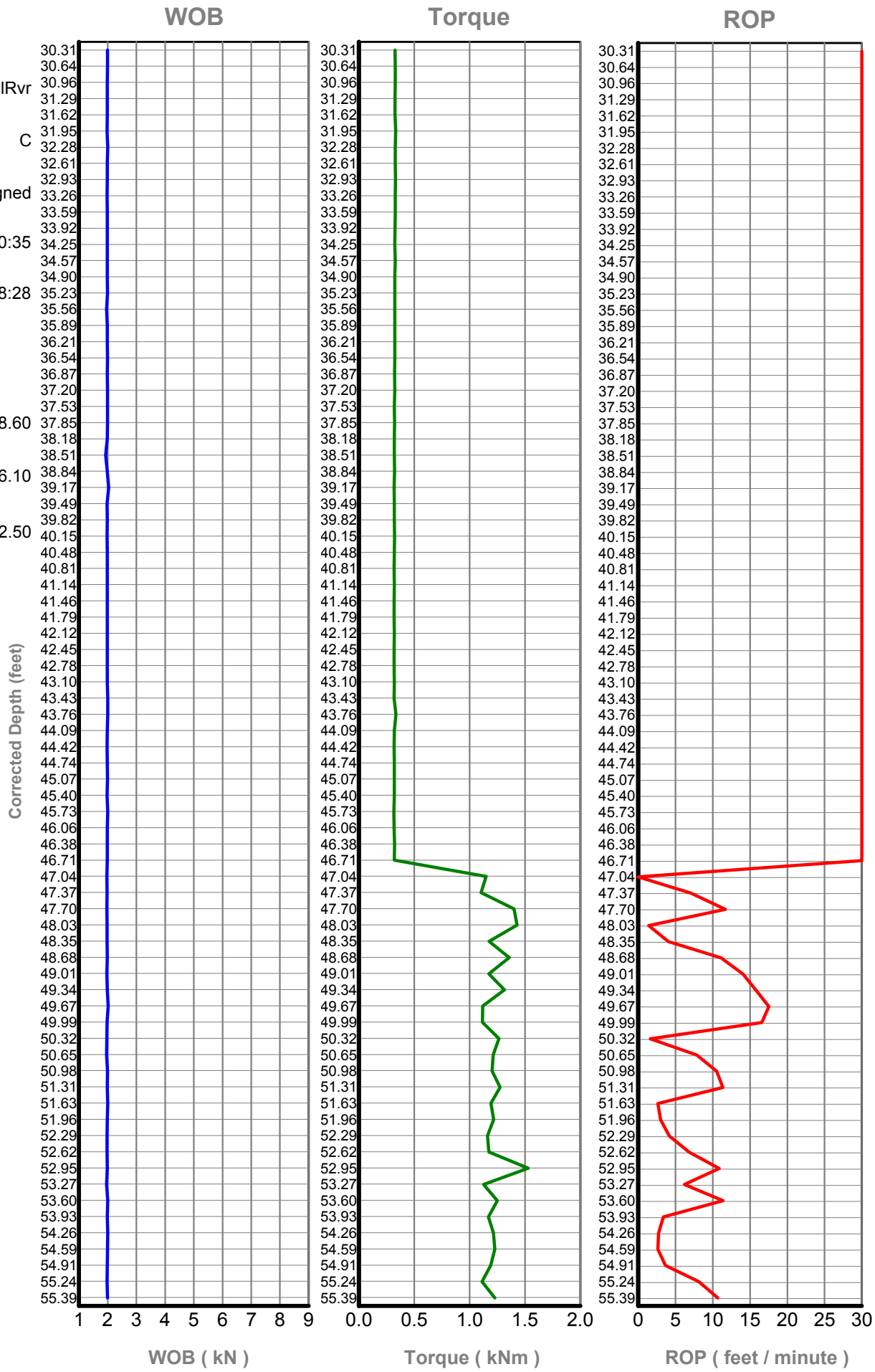
**End Date:**
4/24/2015 9:08:28

**Operator Note:**
'2.5 2.6 C Auto Complete'

**Northing:**
367,008.60

**Easting:**
251,226.10

**Tide (feet):**
2.50



## Hole: H199 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:00:11 | 30.18 | 30.08 | 903 | 1.91 | 0.32 | 49.4 |
| 4/24/2015 1:00:11 | 30.51 | 30.41 | 906 | 1.90 | 0.32 | 49.5 |
| 4/24/2015 1:00:11 | 30.84 | 30.74 | 929 | 1.89 | 0.32 | 50.8 |
| 4/24/2015 1:00:12 | 31.17 | 31.07 | 900 | 1.90 | 0.32 | 49.2 |
| 4/24/2015 1:00:12 | 31.50 | 31.40 | 900 | 1.90 | 0.32 | 49.2 |
| 4/24/2015 1:00:12 | 31.82 | 31.72 | 917 | 1.89 | 0.32 | 50.2 |
| 4/24/2015 1:00:13 | 32.15 | 32.05 | 932 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:13 | 32.48 | 32.38 | 932 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:14 | 32.81 | 32.71 | 932 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:14 | 33.14 | 33.04 | 937 | 0.33 | 0.32 | 51.2 |
| 4/24/2015 1:00:15 | 33.46 | 33.36 | 933 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:15 | 33.79 | 33.69 | 933 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:15 | 34.12 | 34.02 | 931 | 0.33 | 0.32 | 50.9 |
| 4/24/2015 1:00:16 | 34.45 | 34.35 | 939 | 0.33 | 0.32 | 51.3 |
| 4/24/2015 1:00:16 | 34.78 | 34.68 | 939 | 0.33 | 0.32 | 51.3 |
| 4/24/2015 1:00:17 | 35.11 | 35.01 | 939 | 0.33 | 0.32 | 51.3 |
| 4/24/2015 1:00:17 | 35.43 | 35.33 | 933 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 1:00:17 | 35.76 | 35.66 | 911 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 1:00:18 | 36.09 | 35.99 | 901 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 1:00:18 | 36.42 | 36.32 | 901 | 0.34 | 0.32 | 49.3 |
| 4/24/2015 1:00:18 | 36.75 | 36.65 | 929 | 0.35 | 0.32 | 50.8 |
| 4/24/2015 1:00:19 | 37.07 | 36.97 | 941 | 0.35 | 0.33 | 51.5 |
| 4/24/2015 1:00:19 | 37.40 | 37.30 | 950 | 0.34 | 0.32 | 52.0 |
| 4/24/2015 1:00:20 | 37.73 | 37.63 | 950 | 0.34 | 0.32 | 52.0 |
| 4/24/2015 1:00:20 | 38.06 | 37.96 | 958 | 0.33 | 0.32 | 52.4 |
| 4/24/2015 1:00:20 | 38.39 | 38.29 | 966 | 0.34 | 0.32 | 52.8 |
| 4/24/2015 1:00:21 | 38.71 | 38.61 | 966 | 0.34 | 0.32 | 52.8 |
| 4/24/2015 1:00:21 | 39.04 | 38.94 | 963 | 0.35 | 0.32 | 52.7 |
| 4/24/2015 1:00:21 | 39.37 | 39.27 | 929 | 0.34 | 0.33 | 50.8 |
| 4/24/2015 1:00:22 | 39.70 | 39.60 | 923 | 0.35 | 0.32 | 50.5 |
| 4/24/2015 1:00:22 | 40.03 | 39.93 | 923 | 0.35 | 0.32 | 50.5 |
| 4/24/2015 1:00:22 | 40.35 | 40.25 | 920 | 0.34 | 0.32 | 50.3 |
| 4/24/2015 1:00:23 | 40.68 | 40.58 | 920 | 0.34 | 0.32 | 50.3 |
| 4/24/2015 1:00:23 | 41.01 | 40.91 | 935 | 0.34 | 0.32 | 51.1 |
| 4/24/2015 1:00:24 | 41.34 | 41.24 | 935 | 0.34 | 0.32 | 51.1 |
| 4/24/2015 1:00:24 | 41.67 | 41.57 | 911 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 1:00:25 | 41.99 | 41.89 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 1:00:25 | 42.32 | 42.22 | 933 | 0.36 | 0.32 | 51.0 |
| 4/24/2015 1:00:25 | 42.65 | 42.55 | 933 | 0.36 | 0.32 | 51.0 |
| 4/24/2015 1:00:25 | 42.98 | 42.88 | 933 | 0.34 | 0.32 | 51.0 |
| 4/24/2015 1:00:26 | 43.31 | 43.21 | 937 | 0.34 | 0.32 | 51.2 |
| 4/24/2015 1:00:27 | 43.64 | 43.54 | 937 | 0.34 | 0.32 | 51.2 |
| 4/24/2015 1:00:27 | 43.96 | 43.86 | 920 | 0.33 | 0.33 | 50.3 |
| 4/24/2015 1:00:27 | 44.29 | 44.19 | 920 | 0.34 | 0.32 | 50.3 |
| 4/24/2015 1:00:28 | 44.62 | 44.52 | 904 | 0.34 | 0.33 | 49.5 |
| 4/24/2015 1:00:28 | 44.95 | 44.85 | 904 | 0.34 | 0.33 | 49.5 |
| 4/24/2015 1:00:28 | 45.28 | 45.18 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 1:00:29 | 45.60 | 45.50 | 916 | 0.34 | 0.32 | 50.1 |
| 4/24/2015 1:00:29 | 45.93 | 45.83 | 930 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 1:00:30 | 46.26 | 46.16 | 930 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 1:00:30 | 46.59 | 46.49 | 903 | 0.34 | 0.32 | 49.4 |
| 4/24/2015 1:00:30 | 46.92 | 46.82 | 903 | 0.33 | 0.32 | 49.4 |
| 4/24/2015 1:00:31 | 47.24 | 47.14 | 930 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 1:00:31 | 47.57 | 47.47 | 930 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 1:00:31 | 47.90 | 47.80 | 937 | 0.34 | 0.32 | 51.2 |
| 4/24/2015 1:00:32 | 48.23 | 48.13 | 940 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 1:00:32 | 48.56 | 48.46 | 910 | 0.33 | 0.34 | 49.8 |
| 4/24/2015 1:00:33 | 48.88 | 48.78 | 910 | 0.33 | 0.34 | 49.8 |
| 4/24/2015 1:00:53 | 49.21 | 49.11 | 0 | 3.39 | 0.37 | 0.0 |
| 4/24/2015 1:00:55 | 49.54 | 49.44 | 148 | 3.44 | 0.39 | 8.1 |
| 4/24/2015 1:01:04 | 49.87 | 49.77 | 12 | 3.88 | 0.41 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:01:11 | 50.20 | 50.10 | 120 | 3.42 | 0.36 | 6.5 |
| 4/24/2015 | 1:01:13 | 50.53 | 50.43 | 97 | 2.69 | 0.35 | 5.3 |
| 4/24/2015 | 1:01:14 | 50.85 | 50.75 | 114 | 3.16 | 0.35 | 6.2 |
| 4/24/2015 | 1:01:15 | 51.18 | 51.08 | 316 | 3.67 | 0.38 | 17.3 |
| 4/24/2015 | 1:01:19 | 51.51 | 51.41 | 80 | 3.56 | 0.35 | 4.4 |
| 4/24/2015 | 1:01:25 | 51.84 | 51.74 | 0 | 3.24 | 0.35 | 0.0 |
| 4/24/2015 | 1:01:43 | 52.17 | 52.07 | 91 | 3.99 | 0.35 | 5.0 |
| 4/24/2015 | 1:01:44 | 52.49 | 52.39 | 91 | 3.10 | 0.36 | 5.0 |
| 4/24/2015 | 1:01:45 | 52.82 | 52.72 | 275 | 3.34 | 0.40 | 15.0 |
| 4/24/2015 | 1:01:52 | 53.15 | 53.05 | 20 | 3.98 | 0.36 | 1.1 |
| 4/24/2015 | 1:01:53 | 53.48 | 53.38 | 85 | 3.90 | 0.37 | 4.6 |
| 4/24/2015 | 1:01:54 | 53.81 | 53.71 | 152 | 4.53 | 0.37 | 8.3 |
| 4/24/2015 | 1:01:55 | 54.13 | 54.03 | 319 | 3.24 | 0.37 | 17.5 |
| 4/24/2015 | 1:01:56 | 54.46 | 54.36 | 389 | 3.13 | 0.38 | 21.3 |
| 4/24/2015 | 1:02:00 | 54.79 | 54.69 | 102 | 3.75 | 0.39 | 5.6 |
| 4/24/2015 | 1:02:02 | 54.97 | 54.87 | 102 | 4.38 | 0.40 | 5.6 |

## H199 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 0:58:12

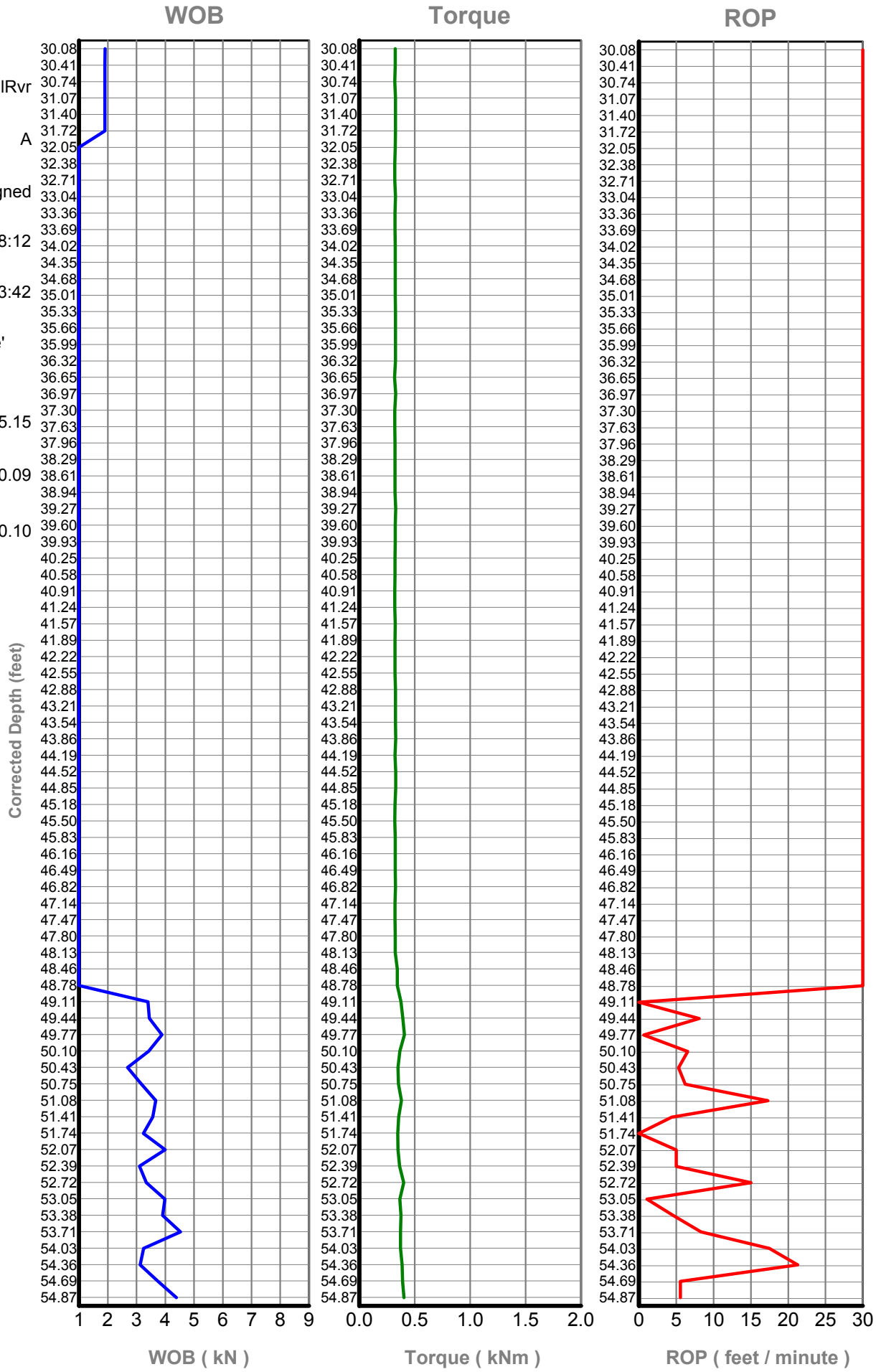
**End Date:**
4/24/2015 1:03:42

**Operator Note:**
'0.1 -.1 b Auto Complete'

**Northing:**
367,065.15

**Easting:**
251,290.09

**Tide (feet):**
0.10



## Hole: H2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:30:40 | 36.42 | 30.32 | 867 | 0.34 | 0.33 | 47.4 |
| 4/27/2015 8:30:41 | 36.75 | 30.65 | 856 | 0.37 | 0.34 | 46.8 |
| 4/27/2015 8:30:41 | 37.07 | 30.97 | 856 | 0.36 | 0.33 | 46.8 |
| 4/27/2015 8:30:42 | 37.40 | 31.30 | 850 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:42 | 37.73 | 31.63 | 850 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:42 | 38.06 | 31.96 | 859 | 0.37 | 0.33 | 47.0 |
| 4/27/2015 8:30:43 | 38.39 | 32.29 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:44 | 38.71 | 32.61 | 853 | 0.37 | 0.33 | 46.6 |
| 4/27/2015 8:30:44 | 39.04 | 32.94 | 853 | 0.37 | 0.33 | 46.6 |
| 4/27/2015 8:30:45 | 39.37 | 33.27 | 853 | 0.37 | 0.33 | 46.6 |
| 4/27/2015 8:30:45 | 39.70 | 33.60 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:45 | 40.03 | 33.93 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:46 | 40.35 | 34.25 | 856 | 0.37 | 0.34 | 46.8 |
| 4/27/2015 8:30:46 | 40.68 | 34.58 | 853 | 0.39 | 0.34 | 46.7 |
| 4/27/2015 8:30:47 | 41.01 | 34.91 | 853 | 0.39 | 0.34 | 46.7 |
| 4/27/2015 8:30:47 | 41.34 | 35.24 | 862 | 0.37 | 0.34 | 47.1 |
| 4/27/2015 8:30:47 | 41.67 | 35.57 | 859 | 0.37 | 0.33 | 47.0 |
| 4/27/2015 8:30:48 | 41.99 | 35.89 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:48 | 42.32 | 36.22 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:49 | 42.65 | 36.55 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:49 | 42.98 | 36.88 | 859 | 0.37 | 0.33 | 47.0 |
| 4/27/2015 8:30:49 | 43.31 | 37.21 | 856 | 0.37 | 0.34 | 46.8 |
| 4/27/2015 8:30:50 | 43.64 | 37.54 | 853 | 0.37 | 0.33 | 46.6 |
| 4/27/2015 8:30:50 | 43.96 | 37.86 | 848 | 0.37 | 0.33 | 46.3 |
| 4/27/2015 8:30:51 | 44.29 | 38.19 | 848 | 0.37 | 0.33 | 46.3 |
| 4/27/2015 8:30:51 | 44.62 | 38.52 | 856 | 0.37 | 0.33 | 46.8 |
| 4/27/2015 8:30:51 | 44.95 | 38.85 | 853 | 0.37 | 0.33 | 46.6 |
| 4/27/2015 8:30:52 | 45.28 | 39.18 | 853 | 0.41 | 0.34 | 46.6 |
| 4/27/2015 8:30:52 | 45.60 | 39.50 | 851 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:53 | 45.93 | 39.83 | 851 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:53 | 46.26 | 40.16 | 856 | 0.37 | 0.34 | 46.8 |
| 4/27/2015 8:30:54 | 46.59 | 40.49 | 850 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:54 | 46.92 | 40.82 | 850 | 0.37 | 0.33 | 46.5 |
| 4/27/2015 8:30:55 | 47.24 | 41.14 | 842 | 0.37 | 0.33 | 46.0 |
| 4/27/2015 8:30:55 | 47.57 | 41.47 | 842 | 0.37 | 0.33 | 46.0 |
| 4/27/2015 8:30:55 | 47.90 | 41.80 | 840 | 0.37 | 0.33 | 45.9 |
| 4/27/2015 8:30:56 | 48.23 | 42.13 | 840 | 0.37 | 0.27 | 45.9 |
| 4/27/2015 8:30:56 | 48.56 | 42.46 | 844 | 0.37 | 0.33 | 46.2 |
| 4/27/2015 8:30:57 | 48.88 | 42.78 | 835 | 0.37 | 0.34 | 45.6 |
| 4/27/2015 8:30:57 | 49.21 | 43.11 | 835 | 0.37 | 0.34 | 45.6 |
| 4/27/2015 8:30:57 | 49.54 | 43.44 | 845 | 0.36 | 0.35 | 46.2 |
| 4/27/2015 8:31:07 | 49.87 | 43.77 | 3 | 2.93 | 0.35 | 0.1 |
| 4/27/2015 8:31:09 | 50.20 | 44.10 | 266 | 2.89 | 0.34 | 14.5 |
| 4/27/2015 8:31:10 | 50.53 | 44.43 | 369 | 2.95 | 0.35 | 20.2 |
| 4/27/2015 8:31:10 | 50.85 | 44.75 | 355 | 2.93 | 0.35 | 19.4 |
| 4/27/2015 8:31:11 | 51.18 | 45.08 | 369 | 2.88 | 0.35 | 20.2 |
| 4/27/2015 8:31:11 | 51.51 | 45.41 | 506 | 2.82 | 0.34 | 27.7 |
| 4/27/2015 8:31:12 | 51.84 | 45.74 | 656 | 2.89 | 0.35 | 35.9 |
| 4/27/2015 8:31:12 | 52.17 | 46.07 | 694 | 3.16 | 0.36 | 38.0 |
| 4/27/2015 8:31:13 | 52.49 | 46.39 | 680 | 3.79 | 0.37 | 37.2 |
| 4/27/2015 8:31:14 | 52.82 | 46.72 | 603 | 3.14 | 0.37 | 33.0 |
| 4/27/2015 8:31:15 | 53.15 | 47.05 | 544 | 3.31 | 0.37 | 29.7 |
| 4/27/2015 8:31:16 | 53.48 | 47.38 | 437 | 3.35 | 0.37 | 23.9 |
| 4/27/2015 8:31:17 | 53.81 | 47.71 | 376 | 3.59 | 0.39 | 20.6 |
| 4/27/2015 8:31:18 | 54.13 | 48.03 | 298 | 3.60 | 0.37 | 16.3 |
| 4/27/2015 8:31:19 | 54.46 | 48.36 | 305 | 3.39 | 0.37 | 16.7 |
| 4/27/2015 8:31:20 | 54.79 | 48.69 | 382 | 3.32 | 0.37 | 20.9 |
| 4/27/2015 8:31:20 | 55.12 | 49.02 | 424 | 3.12 | 0.36 | 23.2 |
| 4/27/2015 8:31:21 | 55.45 | 49.35 | 465 | 3.12 | 0.37 | 25.4 |
| 4/27/2015 8:31:22 | 55.77 | 49.67 | 471 | 3.16 | 0.37 | 25.8 |
| 4/27/2015 8:31:22 | 56.10 | 50.00 | 472 | 3.11 | 0.37 | 25.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:31:23 | 56.43 | 50.33 | 472 | 3.59 | 0.38 | 25.8 |
| 4/27/2015 | 8:31:30 | 56.76 | 50.66 | 110 | 5.12 | 0.39 | 6.0 |
| 4/27/2015 | 8:31:33 | 57.09 | 50.99 | 95 | 4.60 | 0.40 | 5.2 |
| 4/27/2015 | 8:31:35 | 57.41 | 51.31 | 156 | 3.62 | 0.40 | 8.5 |
| 4/27/2015 | 8:31:37 | 57.74 | 51.64 | 176 | 3.70 | 0.38 | 9.6 |
| 4/27/2015 | 8:31:38 | 58.07 | 51.97 | 193 | 3.74 | 0.38 | 10.6 |
| 4/27/2015 | 8:31:40 | 58.40 | 52.30 | 237 | 3.32 | 0.38 | 13.0 |
| 4/27/2015 | 8:31:41 | 58.73 | 52.63 | 253 | 3.46 | 0.39 | 13.9 |
| 4/27/2015 | 8:31:44 | 59.06 | 52.96 | 150 | 3.52 | 0.40 | 8.2 |
| 4/27/2015 | 8:31:47 | 59.38 | 53.28 | 98 | 3.51 | 0.40 | 5.3 |
| 4/27/2015 | 8:31:50 | 59.71 | 53.61 | 121 | 3.56 | 0.40 | 6.6 |
| 4/27/2015 | 8:31:52 | 60.04 | 53.94 | 165 | 3.50 | 0.39 | 9.0 |
| 4/27/2015 | 8:31:55 | 60.37 | 54.27 | 142 | 3.60 | 0.40 | 7.8 |
| 4/27/2015 | 8:31:59 | 60.70 | 54.60 | 69 | 3.66 | 0.40 | 3.8 |
| 4/27/2015 | 8:32:06 | 61.02 | 54.92 | 102 | 3.58 | 0.40 | 5.6 |
| 4/27/2015 | 8:32:09 | 61.18 | 55.08 | 49 | 3.44 | 0.41 | 2.7 |

## H2 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:28:12

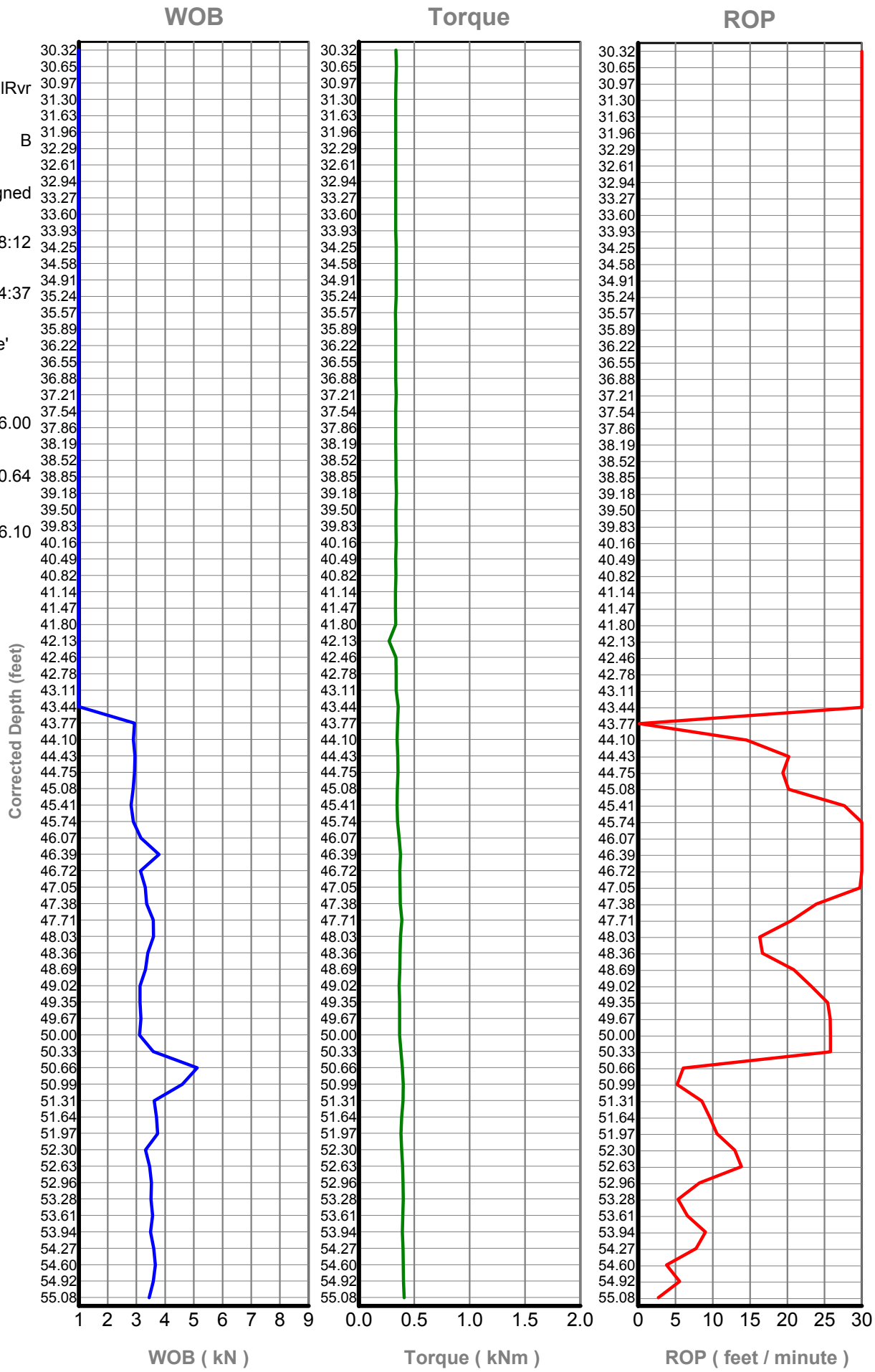
**End Date:**
4/27/2015 8:34:37

**Operator Note:**
'6.1 6.2 b Auto Complete'

**Northing:**
365,646.00

**Easting:**
249,050.64

**Tide (feet):**
6.10



## Hole: H20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 23:57:02 | 31.82 | 30.02 | 913 | 0.22 | 0.32 | 50.0 |
| 4/25/2015 23:57:02 | 32.15 | 30.35 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:03 | 32.48 | 30.68 | 919 | 0.22 | 0.32 | 50.3 |
| 4/25/2015 23:57:03 | 32.81 | 31.01 | 922 | 0.22 | 0.32 | 50.4 |
| 4/25/2015 23:57:04 | 33.14 | 31.34 | 922 | 0.22 | 0.32 | 50.4 |
| 4/25/2015 23:57:04 | 33.46 | 31.66 | 925 | 0.22 | 0.32 | 50.6 |
| 4/25/2015 23:57:04 | 33.79 | 31.99 | 919 | 0.22 | 0.32 | 50.3 |
| 4/25/2015 23:57:05 | 34.12 | 32.32 | 928 | 0.22 | 0.33 | 50.7 |
| 4/25/2015 23:57:05 | 34.45 | 32.65 | 928 | 0.22 | 0.33 | 50.7 |
| 4/25/2015 23:57:05 | 34.78 | 32.98 | 925 | 0.24 | 0.32 | 50.6 |
| 4/25/2015 23:57:06 | 35.11 | 33.31 | 922 | 0.22 | 0.32 | 50.4 |
| 4/25/2015 23:57:07 | 35.43 | 33.63 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:07 | 35.76 | 33.96 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:07 | 36.09 | 34.29 | 922 | 0.22 | 0.33 | 50.4 |
| 4/25/2015 23:57:08 | 36.42 | 34.62 | 911 | 0.22 | 0.33 | 49.8 |
| 4/25/2015 23:57:08 | 36.75 | 34.95 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 23:57:09 | 37.07 | 35.27 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 23:57:09 | 37.40 | 35.60 | 905 | 0.22 | 0.32 | 49.5 |
| 4/25/2015 23:57:09 | 37.73 | 35.93 | 916 | 0.22 | 0.33 | 50.1 |
| 4/25/2015 23:57:10 | 38.06 | 36.26 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:10 | 38.39 | 36.59 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:10 | 38.71 | 36.91 | 919 | 0.22 | 0.33 | 50.3 |
| 4/25/2015 23:57:11 | 39.04 | 37.24 | 922 | 0.22 | 0.33 | 50.4 |
| 4/25/2015 23:57:11 | 39.37 | 37.57 | 931 | 0.22 | 0.32 | 50.9 |
| 4/25/2015 23:57:12 | 39.70 | 37.90 | 931 | 0.22 | 0.32 | 50.9 |
| 4/25/2015 23:57:12 | 40.03 | 38.23 | 922 | 0.22 | 0.32 | 50.4 |
| 4/25/2015 23:57:12 | 40.35 | 38.55 | 922 | 0.22 | 0.33 | 50.4 |
| 4/25/2015 23:57:13 | 40.68 | 38.88 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:13 | 41.01 | 39.21 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:13 | 41.34 | 39.54 | 919 | 0.22 | 0.33 | 50.3 |
| 4/25/2015 23:57:14 | 41.67 | 39.87 | 913 | 0.22 | 0.33 | 50.0 |
| 4/25/2015 23:57:14 | 41.99 | 40.19 | 916 | 0.22 | 0.33 | 50.1 |
| 4/25/2015 23:57:15 | 42.32 | 40.52 | 916 | 0.22 | 0.33 | 50.1 |
| 4/25/2015 23:57:15 | 42.65 | 40.85 | 911 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 23:57:15 | 42.98 | 41.18 | 922 | 0.22 | 0.25 | 50.4 |
| 4/25/2015 23:57:16 | 43.31 | 41.51 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:16 | 43.64 | 41.84 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 23:57:16 | 43.96 | 42.16 | 916 | 0.20 | 0.34 | 50.1 |
| 4/25/2015 23:57:18 | 44.29 | 42.49 | 794 | 0.19 | 0.41 | 43.4 |
| 4/25/2015 23:58:21 | 44.62 | 42.82 | 0 | 4.58 | 0.42 | 0.0 |
| 4/25/2015 23:58:33 | 44.95 | 43.15 | 0 | 4.69 | 0.39 | 0.0 |
| 4/25/2015 23:58:37 | 45.28 | 43.48 | 44 | 3.40 | 0.37 | 2.4 |
| 4/25/2015 23:58:55 | 45.60 | 43.80 | 0 | 3.37 | 0.37 | 0.0 |
| 4/25/2015 23:58:56 | 45.93 | 44.13 | 103 | 3.83 | 0.38 | 5.6 |
| 4/25/2015 23:58:57 | 46.26 | 44.46 | 267 | 3.01 | 0.39 | 14.6 |
| 4/25/2015 23:58:59 | 46.59 | 44.79 | 243 | 2.71 | 0.39 | 13.3 |
| 4/25/2015 23:59:00 | 46.92 | 45.12 | 257 | 2.93 | 0.38 | 14.0 |
| 4/25/2015 23:59:01 | 47.24 | 45.44 | 289 | 2.76 | 0.38 | 15.8 |
| 4/25/2015 23:59:02 | 47.57 | 45.77 | 330 | 2.76 | 0.37 | 18.0 |
| 4/25/2015 23:59:03 | 47.90 | 46.10 | 367 | 3.05 | 0.38 | 20.1 |
| 4/25/2015 23:59:04 | 48.23 | 46.43 | 356 | 3.13 | 0.38 | 19.5 |
| 4/25/2015 23:59:06 | 48.56 | 46.76 | 274 | 3.43 | 0.39 | 15.0 |
| 4/25/2015 23:59:07 | 48.88 | 47.08 | 226 | 3.42 | 0.38 | 12.3 |
| 4/25/2015 23:59:09 | 49.21 | 47.41 | 238 | 3.76 | 0.40 | 13.0 |
| 4/25/2015 23:59:46 | 49.54 | 47.74 | 26 | 3.53 | 0.37 | 1.4 |
| 4/25/2015 23:59:47 | 49.87 | 48.07 | 177 | 3.12 | 0.37 | 9.7 |
| 4/26/2015 0:00:06 | 50.20 | 48.40 | 11 | 5.02 | 0.40 | 0.6 |
| 4/26/2015 0:00:10 | 50.53 | 48.73 | 49 | 4.83 | 0.39 | 2.7 |
| 4/26/2015 0:00:13 | 50.85 | 49.05 | 128 | 4.40 | 0.40 | 7.0 |
| 4/26/2015 0:00:15 | 51.18 | 49.38 | 199 | 8.18 | 0.41 | 10.9 |
| 4/26/2015 0:00:19 | 51.51 | 49.71 | 84 | 4.76 | 0.38 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 0:00:20 | 51.84 | 50.04 | 258 | 3.65 | 0.37 | 14.1 |
| 4/26/2015 | 0:00:20 | 52.17 | 50.37 | 346 | 3.55 | 0.37 | 18.9 |
| 4/26/2015 | 0:00:21 | 52.49 | 50.69 | 460 | 2.78 | 0.36 | 25.1 |
| 4/26/2015 | 0:00:49 | 52.82 | 51.02 | 23 | 3.22 | 0.36 | 1.2 |
| 4/26/2015 | 0:00:50 | 53.15 | 51.35 | 117 | 3.89 | 0.37 | 6.4 |
| 4/26/2015 | 0:00:54 | 53.48 | 51.68 | 0 | 3.93 | 0.38 | 0.0 |
| 4/26/2015 | 0:00:59 | 53.81 | 52.01 | 117 | 3.39 | 0.37 | 6.4 |
| 4/26/2015 | 0:00:59 | 54.13 | 52.33 | 197 | 3.15 | 0.37 | 10.8 |
| 4/26/2015 | 0:01:00 | 54.46 | 52.66 | 350 | 3.71 | 0.37 | 19.2 |
| 4/26/2015 | 0:01:02 | 54.79 | 52.99 | 327 | 3.90 | 0.38 | 17.9 |
| 4/26/2015 | 0:01:03 | 55.12 | 53.32 | 234 | 3.77 | 0.38 | 12.8 |
| 4/26/2015 | 0:01:09 | 55.45 | 53.65 | 0 | 3.11 | 0.37 | 0.0 |
| 4/26/2015 | 0:01:11 | 55.77 | 53.97 | 113 | 3.90 | 0.38 | 6.2 |
| 4/26/2015 | 0:01:12 | 56.10 | 54.30 | 231 | 3.75 | 0.38 | 12.6 |
| 4/26/2015 | 0:01:13 | 56.43 | 54.63 | 256 | 3.53 | 0.37 | 14.0 |
| 4/26/2015 | 0:01:14 | 56.76 | 54.96 | 283 | 3.48 | 0.37 | 15.5 |
| 4/26/2015 | 0:01:15 | 57.09 | 55.29 | 330 | 3.22 | 0.37 | 18.0 |
| 4/26/2015 | 0:01:16 | 57.33 | 55.53 | 347 | 3.14 | 0.37 | 19.0 |

## H20 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 23:54:11

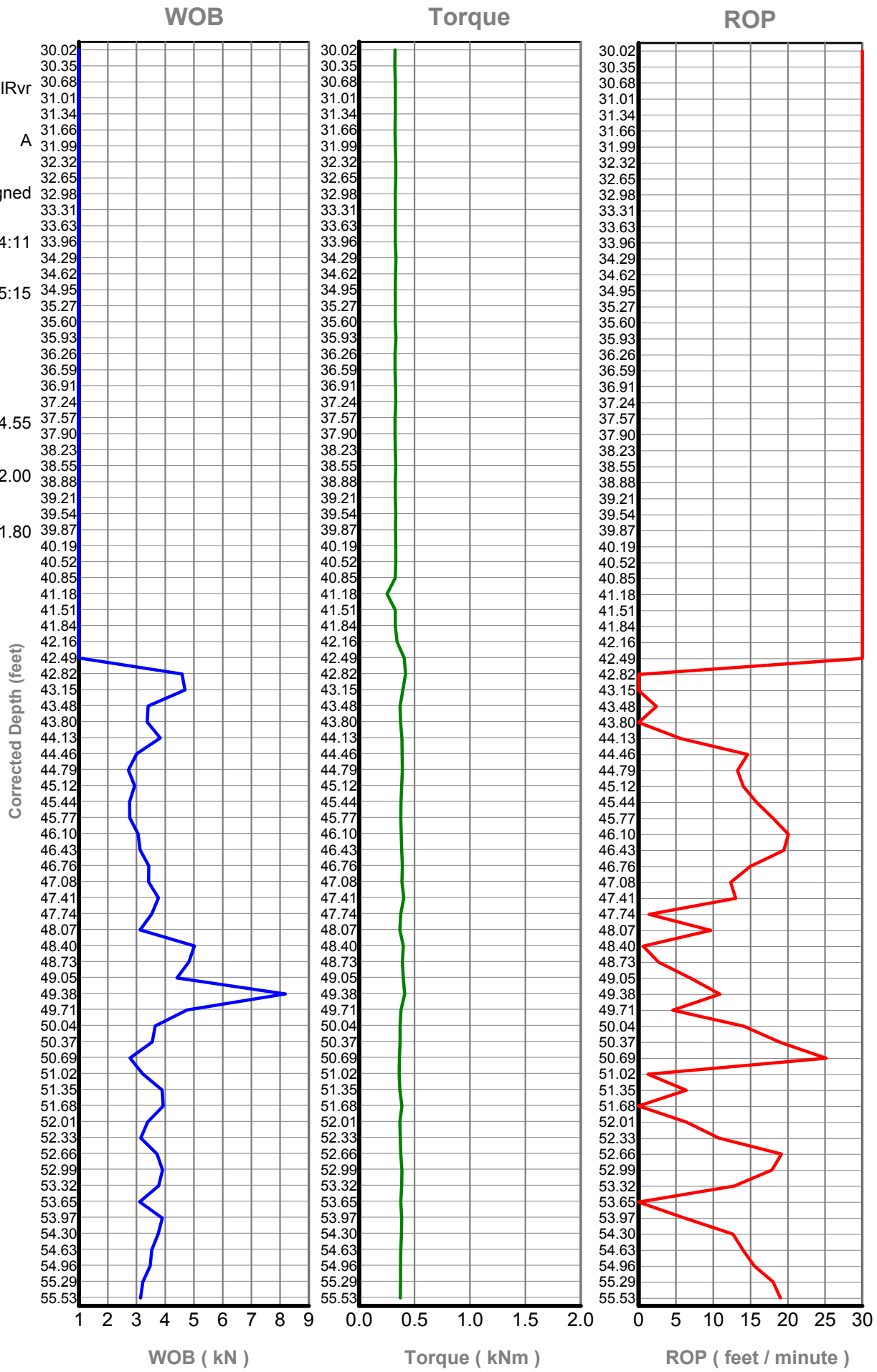
**End Date:**
4/26/2015 0:05:15

**Operator Note:**
'1.8 '3.4 2.0 b Auto Complete'

**Northing:**
366,484.55

**Easting:**
250,102.00

**Tide (feet):**
1.80



## Hole: H200 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 0:52:00 | 30.18 | 30.28 | 889 | 0.34 | 0.32 | 48.6 |
| 4/24/2015 0:52:01 | 30.51 | 30.61 | 908 | 0.34 | 0.32 | 49.7 |
| 4/24/2015 0:52:01 | 30.84 | 30.94 | 908 | 0.34 | 0.32 | 49.7 |
| 4/24/2015 0:52:01 | 31.17 | 31.27 | 884 | 0.34 | 0.32 | 48.4 |
| 4/24/2015 0:52:02 | 31.50 | 31.60 | 906 | 0.34 | 0.32 | 49.6 |
| 4/24/2015 0:52:02 | 31.82 | 31.92 | 895 | 0.34 | 0.32 | 48.9 |
| 4/24/2015 0:52:03 | 32.15 | 32.25 | 895 | 0.34 | 0.32 | 48.9 |
| 4/24/2015 0:52:03 | 32.48 | 32.58 | 895 | 0.34 | 0.32 | 48.9 |
| 4/24/2015 0:52:03 | 32.81 | 32.91 | 925 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:04 | 33.14 | 33.24 | 925 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:04 | 33.46 | 33.56 | 925 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:04 | 33.79 | 33.89 | 927 | 0.34 | 0.32 | 50.7 |
| 4/24/2015 0:52:05 | 34.12 | 34.22 | 959 | 0.34 | 0.33 | 52.4 |
| 4/24/2015 0:52:06 | 34.45 | 34.55 | 959 | 0.34 | 0.33 | 52.4 |
| 4/24/2015 0:52:06 | 34.78 | 34.88 | 922 | 0.34 | 0.32 | 50.4 |
| 4/24/2015 0:52:06 | 35.11 | 35.21 | 927 | 0.34 | 0.33 | 50.7 |
| 4/24/2015 0:52:07 | 35.43 | 35.53 | 927 | 0.33 | 0.32 | 50.7 |
| 4/24/2015 0:52:07 | 35.76 | 35.86 | 927 | 0.33 | 0.32 | 50.7 |
| 4/24/2015 0:52:07 | 36.09 | 36.19 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 0:52:08 | 36.42 | 36.52 | 899 | 0.37 | 0.32 | 49.2 |
| 4/24/2015 0:52:08 | 36.75 | 36.85 | 899 | 0.34 | 0.32 | 49.2 |
| 4/24/2015 0:52:09 | 37.07 | 37.17 | 899 | 0.34 | 0.32 | 49.2 |
| 4/24/2015 0:52:09 | 37.40 | 37.50 | 904 | 0.33 | 0.32 | 49.4 |
| 4/24/2015 0:52:09 | 37.73 | 37.83 | 926 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:10 | 38.06 | 38.16 | 926 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:10 | 38.39 | 38.49 | 926 | 0.34 | 0.32 | 50.6 |
| 4/24/2015 0:52:10 | 38.71 | 38.81 | 938 | 0.34 | 0.32 | 51.3 |
| 4/24/2015 0:52:11 | 39.04 | 39.14 | 910 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 0:52:11 | 39.37 | 39.47 | 910 | 0.34 | 0.32 | 49.8 |
| 4/24/2015 0:52:11 | 39.70 | 39.80 | 940 | 0.33 | 0.32 | 51.4 |
| 4/24/2015 0:52:12 | 40.03 | 40.13 | 912 | 0.31 | 0.32 | 49.8 |
| 4/24/2015 0:52:12 | 40.35 | 40.45 | 921 | 0.33 | 0.32 | 50.4 |
| 4/24/2015 0:52:13 | 40.68 | 40.78 | 921 | 0.33 | 0.32 | 50.4 |
| 4/24/2015 0:52:13 | 41.01 | 41.11 | 921 | 0.33 | 0.32 | 50.4 |
| 4/24/2015 0:52:13 | 41.34 | 41.44 | 899 | 0.33 | 0.33 | 49.1 |
| 4/24/2015 0:52:14 | 41.67 | 41.77 | 899 | 0.33 | 0.32 | 49.1 |
| 4/24/2015 0:52:14 | 41.99 | 42.09 | 899 | 0.33 | 0.32 | 49.1 |
| 4/24/2015 0:52:14 | 42.32 | 42.42 | 932 | 0.33 | 0.32 | 51.0 |
| 4/24/2015 0:52:15 | 42.65 | 42.75 | 921 | 0.33 | 0.32 | 50.3 |
| 4/24/2015 0:52:15 | 42.98 | 43.08 | 939 | 0.34 | 0.32 | 51.3 |
| 4/24/2015 0:52:16 | 43.31 | 43.41 | 939 | 0.34 | 0.32 | 51.3 |
| 4/24/2015 0:52:16 | 43.64 | 43.74 | 948 | 0.33 | 0.32 | 51.8 |
| 4/24/2015 0:52:17 | 43.96 | 44.06 | 928 | 0.36 | 0.32 | 50.8 |
| 4/24/2015 0:52:17 | 44.29 | 44.39 | 915 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 0:52:18 | 44.62 | 44.72 | 915 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 0:52:18 | 44.95 | 45.05 | 915 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 0:52:18 | 45.28 | 45.38 | 924 | 0.33 | 0.32 | 50.5 |
| 4/24/2015 0:52:19 | 45.60 | 45.70 | 924 | 0.33 | 0.32 | 50.5 |
| 4/24/2015 0:52:19 | 45.93 | 46.03 | 904 | 0.33 | 0.32 | 49.4 |
| 4/24/2015 0:52:19 | 46.26 | 46.36 | 904 | 0.33 | 0.32 | 49.4 |
| 4/24/2015 0:52:20 | 46.59 | 46.69 | 917 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 0:52:20 | 46.92 | 47.02 | 917 | 0.33 | 0.32 | 50.1 |
| 4/24/2015 0:52:20 | 47.24 | 47.34 | 917 | 0.32 | 0.36 | 50.1 |
| 4/24/2015 0:52:21 | 47.57 | 47.67 | 901 | 0.34 | 0.30 | 49.3 |
| 4/24/2015 0:52:21 | 47.90 | 48.00 | 902 | 0.34 | 0.34 | 49.3 |
| 4/24/2015 0:52:22 | 48.23 | 48.33 | 901 | 0.31 | 0.38 | 49.3 |
| 4/24/2015 0:54:12 | 48.56 | 48.66 | 6 | 4.55 | 0.37 | 0.3 |
| 4/24/2015 0:54:15 | 48.88 | 48.98 | 130 | 3.64 | 0.37 | 7.1 |
| 4/24/2015 0:54:31 | 49.21 | 49.31 | 62 | 3.23 | 0.37 | 3.4 |
| 4/24/2015 0:54:39 | 49.54 | 49.64 | 37 | 3.38 | 0.39 | 2.0 |
| 4/24/2015 0:54:41 | 49.87 | 49.97 | 184 | 3.66 | 0.37 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 0:54:42 | 50.20 | 50.30 | 280 | 3.01 | 0.37 | 15.3 |
| 4/24/2015 | 0:54:44 | 50.53 | 50.63 | 303 | 3.76 | 0.38 | 16.6 |
| 4/24/2015 | 0:54:45 | 50.85 | 50.95 | 220 | 3.55 | 0.38 | 12.0 |
| 4/24/2015 | 0:54:47 | 51.18 | 51.28 | 194 | 3.28 | 0.39 | 10.6 |
| 4/24/2015 | 0:54:49 | 51.51 | 51.61 | 171 | 3.42 | 0.37 | 9.3 |
| 4/24/2015 | 0:54:50 | 51.84 | 51.94 | 211 | 2.71 | 0.38 | 11.6 |
| 4/24/2015 | 0:55:05 | 52.17 | 52.27 | 41 | 3.43 | 0.40 | 2.2 |
| 4/24/2015 | 0:55:16 | 52.49 | 52.59 | 38 | 3.20 | 0.40 | 2.1 |
| 4/24/2015 | 0:55:22 | 52.82 | 52.92 | 75 | 3.83 | 0.40 | 4.1 |
| 4/24/2015 | 0:55:26 | 53.00 | 53.10 | 46 | 3.76 | 0.40 | 2.5 |

## H200 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 0:51:00

**End Date:**
4/24/2015 0:56:52

**Operator Note:**
'-0.1 -.2 b Auto Complete'

**Northing:**
367,101.32

**Easting:**
251,336.70

**Tide (feet):**
-0.10



## Hole: H201 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 0:50:13 | 30.18 | 30.28 | 567 | 1.99 | 0.18 | 31.0 |
| 4/24/2015 0:50:13 | 30.51 | 30.61 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:14 | 30.84 | 30.94 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:15 | 31.17 | 31.27 | 557 | 2.03 | 0.18 | 30.5 |
| 4/24/2015 0:50:16 | 31.50 | 31.60 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:17 | 31.82 | 31.92 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:16 | 32.15 | 32.25 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:17 | 32.48 | 32.58 | 563 | 2.03 | 0.18 | 30.8 |
| 4/24/2015 0:50:18 | 32.81 | 32.91 | 570 | 2.03 | 0.18 | 31.2 |
| 4/24/2015 0:50:18 | 33.14 | 33.24 | 563 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:19 | 33.46 | 33.56 | 560 | 2.02 | 0.18 | 30.6 |
| 4/24/2015 0:50:19 | 33.79 | 33.89 | 564 | 2.00 | 0.18 | 30.8 |
| 4/24/2015 0:50:21 | 34.12 | 34.22 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:21 | 34.45 | 34.55 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:22 | 34.78 | 34.88 | 570 | 2.02 | 0.18 | 31.2 |
| 4/24/2015 0:50:22 | 35.11 | 35.21 | 564 | 2.00 | 0.18 | 30.8 |
| 4/24/2015 0:50:23 | 35.43 | 35.53 | 561 | 2.03 | 0.18 | 30.7 |
| 4/24/2015 0:50:24 | 35.76 | 35.86 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 0:50:24 | 36.09 | 36.19 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 0:50:25 | 36.42 | 36.52 | 557 | 2.02 | 0.18 | 30.5 |
| 4/24/2015 0:50:25 | 36.75 | 36.85 | 560 | 2.02 | 0.18 | 30.6 |
| 4/24/2015 0:50:26 | 37.07 | 37.17 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 0:50:27 | 37.40 | 37.50 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 0:50:27 | 37.73 | 37.83 | 564 | 2.03 | 0.18 | 30.8 |
| 4/24/2015 0:50:28 | 38.06 | 38.16 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 0:50:29 | 38.39 | 38.49 | 562 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 0:50:29 | 38.71 | 38.81 | 561 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 0:50:30 | 39.04 | 39.14 | 567 | 1.99 | 0.23 | 31.0 |
| 4/24/2015 0:50:30 | 39.37 | 39.47 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:31 | 39.70 | 39.80 | 564 | 2.01 | 0.18 | 30.8 |
| 4/24/2015 0:50:32 | 40.03 | 40.13 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 0:50:33 | 40.35 | 40.45 | 571 | 2.02 | 0.18 | 31.2 |
| 4/24/2015 0:50:33 | 40.68 | 40.78 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 0:50:34 | 41.01 | 41.11 | 563 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:34 | 41.34 | 41.44 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 0:50:35 | 41.67 | 41.77 | 564 | 1.99 | 0.18 | 30.8 |
| 4/24/2015 0:50:36 | 41.99 | 42.09 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:36 | 42.32 | 42.42 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 0:50:37 | 42.65 | 42.75 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:38 | 42.98 | 43.08 | 560 | 1.99 | 0.18 | 30.6 |
| 4/24/2015 0:50:38 | 43.31 | 43.41 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:39 | 43.64 | 43.74 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:39 | 43.96 | 44.06 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:40 | 44.29 | 44.39 | 564 | 2.00 | 0.18 | 30.8 |
| 4/24/2015 0:50:41 | 44.62 | 44.72 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 0:50:42 | 44.95 | 45.05 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 0:50:42 | 45.28 | 45.38 | 558 | 2.05 | 0.18 | 30.5 |
| 4/24/2015 0:50:43 | 45.60 | 45.70 | 561 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 0:50:43 | 45.93 | 46.03 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 0:50:44 | 46.26 | 46.36 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 0:50:45 | 46.59 | 46.69 | 567 | 2.01 | 0.18 | 31.0 |
| 4/24/2015 0:50:45 | 46.92 | 47.02 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 0:50:46 | 47.24 | 47.34 | 564 | 2.01 | 0.18 | 30.8 |
| 4/24/2015 0:50:47 | 47.57 | 47.67 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 0:50:47 | 47.90 | 48.00 | 564 | 2.03 | 0.18 | 30.8 |
| 4/24/2015 0:50:48 | 48.23 | 48.33 | 561 | 2.01 | 0.18 | 30.7 |
| 4/24/2015 0:51:17 | 48.56 | 48.66 | 0 | 2.02 | 1.28 | 0.0 |
| 4/24/2015 0:51:19 | 48.88 | 48.98 | 184 | 2.01 | 1.27 | 10.0 |
| 4/24/2015 0:51:20 | 49.21 | 49.31 | 222 | 2.00 | 1.29 | 12.2 |
| 4/24/2015 0:51:29 | 49.54 | 49.64 | 21 | 2.02 | 1.56 | 1.1 |
| 4/24/2015 0:51:49 | 49.87 | 49.97 | 98 | 2.01 | 1.38 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 0:51:52 | 50.20 | 50.30 | 144 | 2.04 | 1.29 | 7.9 |
| 4/24/2015 | 0:52:10 | 50.53 | 50.63 | 0 | 1.95 | 1.34 | 0.0 |
| 4/24/2015 | 0:52:13 | 50.85 | 50.95 | 127 | 2.00 | 1.27 | 6.9 |
| 4/24/2015 | 0:52:14 | 51.18 | 51.28 | 207 | 2.00 | 1.40 | 11.3 |
| 4/24/2015 | 0:52:24 | 51.51 | 51.61 | 40 | 1.99 | 1.22 | 2.2 |
| 4/24/2015 | 0:52:26 | 51.84 | 51.94 | 203 | 2.01 | 1.23 | 11.1 |
| 4/24/2015 | 0:52:27 | 52.17 | 52.27 | 280 | 2.00 | 1.24 | 15.3 |
| 4/24/2015 | 0:52:31 | 52.49 | 52.59 | 51 | 2.02 | 1.21 | 2.8 |
| 4/24/2015 | 0:52:32 | 52.82 | 52.92 | 191 | 2.02 | 1.14 | 10.4 |
| 4/24/2015 | 0:52:33 | 53.15 | 53.25 | 356 | 2.06 | 1.09 | 19.5 |
| 4/24/2015 | 0:52:34 | 53.48 | 53.58 | 402 | 2.02 | 1.09 | 22.0 |
| 4/24/2015 | 0:52:34 | 53.81 | 53.91 | 425 | 2.03 | 1.09 | 23.2 |
| 4/24/2015 | 0:52:35 | 54.13 | 54.23 | 465 | 2.02 | 1.09 | 25.5 |
| 4/24/2015 | 0:52:36 | 54.46 | 54.56 | 468 | 2.02 | 1.08 | 25.6 |
| 4/24/2015 | 0:52:37 | 54.79 | 54.89 | 465 | 2.02 | 1.09 | 25.4 |
| 4/24/2015 | 0:52:38 | 55.12 | 55.22 | 463 | 2.00 | 1.08 | 25.3 |
| 4/24/2015 | 0:52:38 | 55.15 | 55.25 | 463 | 2.00 | 1.08 | 25.3 |

## H201 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 0:48:11

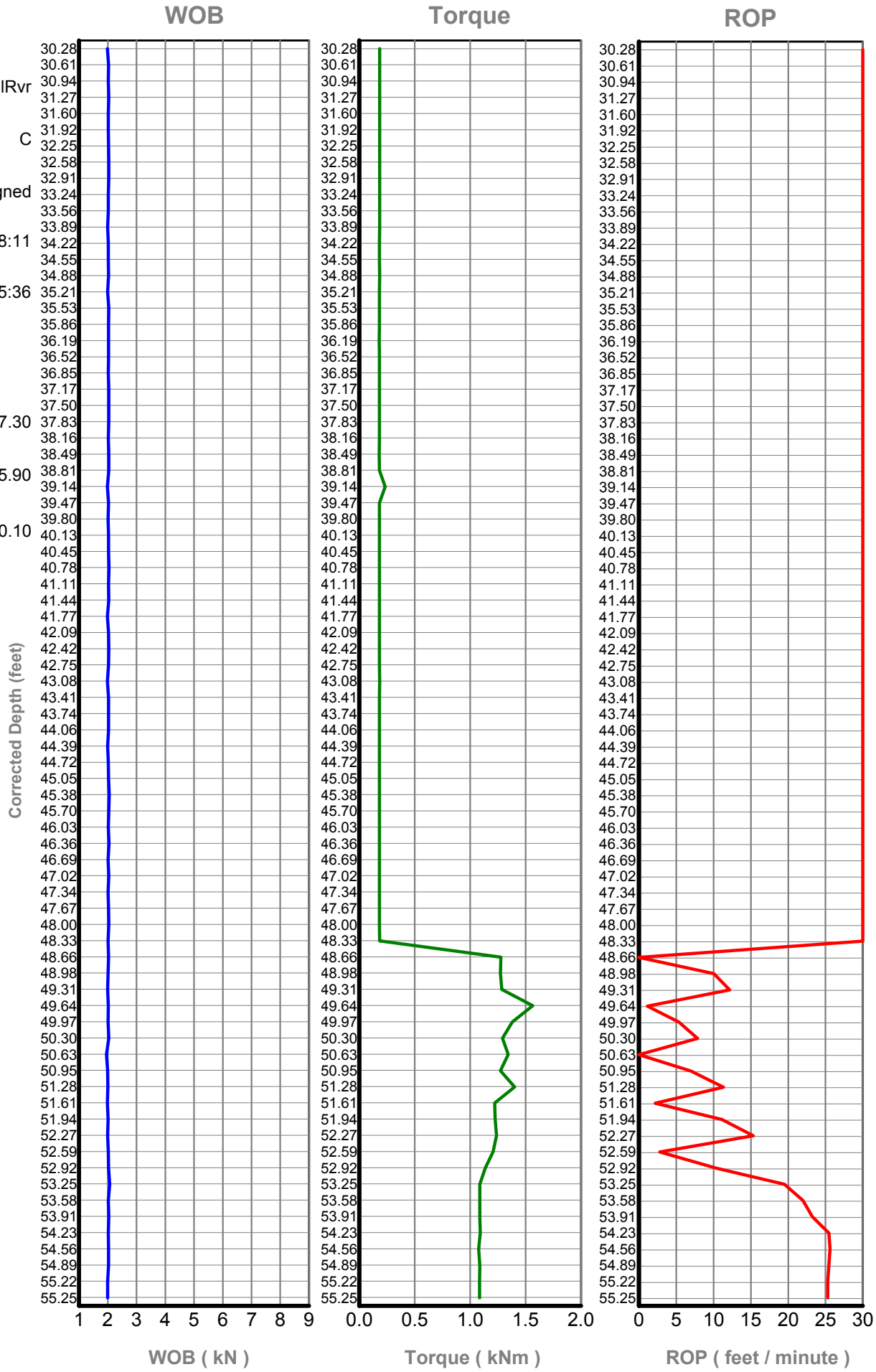
**End Date:**
4/24/2015 0:55:36

**Operator Note:**
'-0.1 -0.2 c Auto Complete'

**Northing:**
367,147.30

**Easting:**
251,395.90

**Tide (feet):**
-0.10



## Hole: H202 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:54:33 | 32.15 | 30.25 | 888 | 1.34 | 0.36 | 48.6 |
| 4/23/2015 20:54:34 | 32.48 | 30.58 | 888 | 1.34 | 0.36 | 48.6 |
| 4/23/2015 20:54:34 | 32.81 | 30.91 | 905 | 1.36 | 0.36 | 49.5 |
| 4/23/2015 20:54:34 | 33.14 | 31.24 | 905 | 1.34 | 0.36 | 49.5 |
| 4/23/2015 20:54:35 | 33.46 | 31.56 | 908 | 1.34 | 0.36 | 49.6 |
| 4/23/2015 20:54:36 | 33.79 | 31.89 | 911 | 1.33 | 0.36 | 49.8 |
| 4/23/2015 20:54:36 | 34.12 | 32.22 | 911 | 1.33 | 0.36 | 49.8 |
| 4/23/2015 20:54:36 | 34.45 | 32.55 | 911 | 1.26 | 0.33 | 49.8 |
| 4/23/2015 20:54:37 | 34.78 | 32.88 | 902 | 1.28 | 0.33 | 49.3 |
| 4/23/2015 20:54:37 | 35.11 | 33.21 | 899 | 1.30 | 0.34 | 49.2 |
| 4/23/2015 20:54:38 | 35.43 | 33.53 | 899 | 1.30 | 0.34 | 49.2 |
| 4/23/2015 20:54:38 | 35.76 | 33.86 | 888 | 1.31 | 0.34 | 48.5 |
| 4/23/2015 20:54:38 | 36.09 | 34.19 | 885 | 1.30 | 0.33 | 48.4 |
| 4/23/2015 20:54:39 | 36.42 | 34.52 | 882 | 1.28 | 0.33 | 48.2 |
| 4/23/2015 20:54:39 | 36.75 | 34.85 | 876 | 1.32 | 0.33 | 47.9 |
| 4/23/2015 20:54:40 | 37.07 | 35.17 | 876 | 1.32 | 0.33 | 47.9 |
| 4/23/2015 20:54:40 | 37.40 | 35.50 | 873 | 1.29 | 0.33 | 47.7 |
| 4/23/2015 20:54:40 | 37.73 | 35.83 | 873 | 1.28 | 0.33 | 47.7 |
| 4/23/2015 20:54:41 | 38.06 | 36.16 | 878 | 1.26 | 0.32 | 48.0 |
| 4/23/2015 20:54:41 | 38.39 | 36.49 | 878 | 1.26 | 0.32 | 48.0 |
| 4/23/2015 20:54:41 | 38.71 | 36.81 | 876 | 1.28 | 0.33 | 47.9 |
| 4/23/2015 20:54:42 | 39.04 | 37.14 | 879 | 1.27 | 0.33 | 48.1 |
| 4/23/2015 20:54:42 | 39.37 | 37.47 | 890 | 1.26 | 0.33 | 48.7 |
| 4/23/2015 20:54:43 | 39.70 | 37.80 | 890 | 1.26 | 0.33 | 48.7 |
| 4/23/2015 20:54:43 | 40.03 | 38.13 | 893 | 1.30 | 0.33 | 48.8 |
| 4/23/2015 20:54:43 | 40.35 | 38.45 | 893 | 1.30 | 0.33 | 48.8 |
| 4/23/2015 20:54:44 | 40.68 | 38.78 | 893 | 1.30 | 0.33 | 48.8 |
| 4/23/2015 20:54:44 | 41.01 | 39.11 | 887 | 1.28 | 0.33 | 48.5 |
| 4/23/2015 20:54:45 | 41.34 | 39.44 | 887 | 1.28 | 0.33 | 48.5 |
| 4/23/2015 20:54:45 | 41.67 | 39.77 | 882 | 1.26 | 0.33 | 48.2 |
| 4/23/2015 20:54:46 | 41.99 | 40.09 | 876 | 1.28 | 0.33 | 47.9 |
| 4/23/2015 20:54:46 | 42.32 | 40.42 | 868 | 1.26 | 0.31 | 47.4 |
| 4/23/2015 20:54:46 | 42.41 | 40.51 | 868 | 1.26 | 0.31 | 47.4 |
| 4/23/2015 21:23:21 | 42.65 | 40.75 | 577 | 1.99 | 0.17 | 31.6 |
| 4/23/2015 21:23:22 | 42.98 | 41.08 | 576 | 1.99 | 0.17 | 31.5 |
| 4/23/2015 21:23:22 | 43.31 | 41.41 | 573 | 2.04 | 0.17 | 31.4 |
| 4/23/2015 21:23:23 | 43.64 | 41.74 | 564 | 1.98 | 0.17 | 30.8 |
| 4/23/2015 21:23:24 | 43.96 | 42.06 | 567 | 2.00 | 0.17 | 31.0 |
| 4/23/2015 21:23:24 | 44.29 | 42.39 | 564 | 1.99 | 0.17 | 30.8 |
| 4/23/2015 21:23:25 | 44.62 | 42.72 | 564 | 2.00 | 0.17 | 30.8 |
| 4/23/2015 21:23:26 | 44.95 | 43.05 | 558 | 2.02 | 0.17 | 30.5 |
| 4/23/2015 21:23:27 | 45.28 | 43.38 | 566 | 2.01 | 0.17 | 30.9 |
| 4/23/2015 21:23:27 | 45.60 | 43.70 | 557 | 2.00 | 0.17 | 30.5 |
| 4/23/2015 21:23:28 | 45.93 | 44.03 | 557 | 2.00 | 0.17 | 30.5 |
| 4/23/2015 21:23:28 | 46.26 | 44.36 | 560 | 1.98 | 0.17 | 30.6 |
| 4/23/2015 21:23:29 | 46.59 | 44.69 | 569 | 2.01 | 0.17 | 31.1 |
| 4/23/2015 21:23:30 | 46.92 | 45.02 | 567 | 2.02 | 0.17 | 31.0 |
| 4/23/2015 21:23:30 | 47.24 | 45.34 | 567 | 1.99 | 0.17 | 31.0 |
| 4/23/2015 21:23:31 | 47.57 | 45.67 | 564 | 1.99 | 0.17 | 30.8 |
| 4/23/2015 21:23:31 | 47.90 | 46.00 | 563 | 1.99 | 0.17 | 30.8 |
| 4/23/2015 21:23:32 | 48.23 | 46.33 | 564 | 1.97 | 0.17 | 30.8 |
| 4/23/2015 21:23:33 | 48.56 | 46.66 | 570 | 2.00 | 0.17 | 31.2 |
| 4/23/2015 21:23:33 | 48.88 | 46.98 | 564 | 1.99 | 0.17 | 30.8 |
| 4/23/2015 21:23:34 | 49.21 | 47.31 | 564 | 2.02 | 0.17 | 30.8 |
| 4/23/2015 21:23:34 | 49.54 | 47.64 | 560 | 2.00 | 0.17 | 30.6 |
| 4/23/2015 21:23:35 | 49.87 | 47.97 | 561 | 2.00 | 0.17 | 30.7 |
| 4/23/2015 21:23:36 | 50.20 | 48.30 | 564 | 1.98 | 0.17 | 30.8 |
| 4/23/2015 21:23:37 | 50.53 | 48.63 | 567 | 1.98 | 0.17 | 31.0 |
| 4/23/2015 21:23:37 | 50.85 | 48.95 | 570 | 2.03 | 0.17 | 31.2 |
| 4/23/2015 21:23:38 | 51.18 | 49.28 | 564 | 1.99 | 0.17 | 30.8 |
| 4/23/2015 21:23:39 | 51.51 | 49.61 | 554 | 2.01 | 0.17 | 30.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:23:39 | 51.84 | 49.94 | 559 | 2.01 | 0.17 | 30.6 |
| 4/23/2015 | 21:23:40 | 52.17 | 50.27 | 547 | 2.01 | 0.17 | 29.9 |
| 4/23/2015 | 21:23:40 | 52.49 | 50.59 | 548 | 1.98 | 0.17 | 30.0 |
| 4/23/2015 | 21:23:41 | 52.82 | 50.92 | 558 | 1.99 | 0.17 | 30.5 |
| 4/23/2015 | 21:23:42 | 53.15 | 51.25 | 539 | 2.02 | 0.17 | 29.5 |
| 4/23/2015 | 21:23:42 | 53.48 | 51.58 | 534 | 1.98 | 0.17 | 29.2 |
| 4/23/2015 | 21:23:43 | 53.81 | 51.91 | 492 | 2.01 | 0.17 | 26.9 |
| 4/23/2015 | 21:23:44 | 54.13 | 52.23 | 472 | 2.02 | 0.17 | 25.8 |
| 4/23/2015 | 21:23:45 | 54.46 | 52.56 | 461 | 2.00 | 0.17 | 25.2 |
| 4/23/2015 | 21:23:45 | 54.79 | 52.89 | 461 | 1.98 | 0.17 | 25.2 |
| 4/23/2015 | 21:23:47 | 55.12 | 53.22 | 462 | 1.99 | 0.17 | 25.3 |
| 4/23/2015 | 21:23:47 | 55.45 | 53.55 | 455 | 1.98 | 0.17 | 24.9 |
| 4/23/2015 | 21:23:48 | 55.77 | 53.87 | 453 | 2.00 | 0.17 | 24.8 |
| 4/23/2015 | 21:23:49 | 56.10 | 54.20 | 451 | 1.99 | 0.17 | 24.6 |
| 4/23/2015 | 21:23:50 | 56.43 | 54.53 | 436 | 1.98 | 0.17 | 23.8 |
| 4/23/2015 | 21:23:50 | 56.76 | 54.86 | 436 | 1.99 | 0.17 | 23.8 |
| 4/23/2015 | 21:23:51 | 57.09 | 55.19 | 452 | 1.98 | 0.17 | 24.7 |
| 4/23/2015 | 21:23:52 | 57.27 | 55.37 | 439 | 2.07 | 0.17 | 24.0 |

## H202 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:21:10

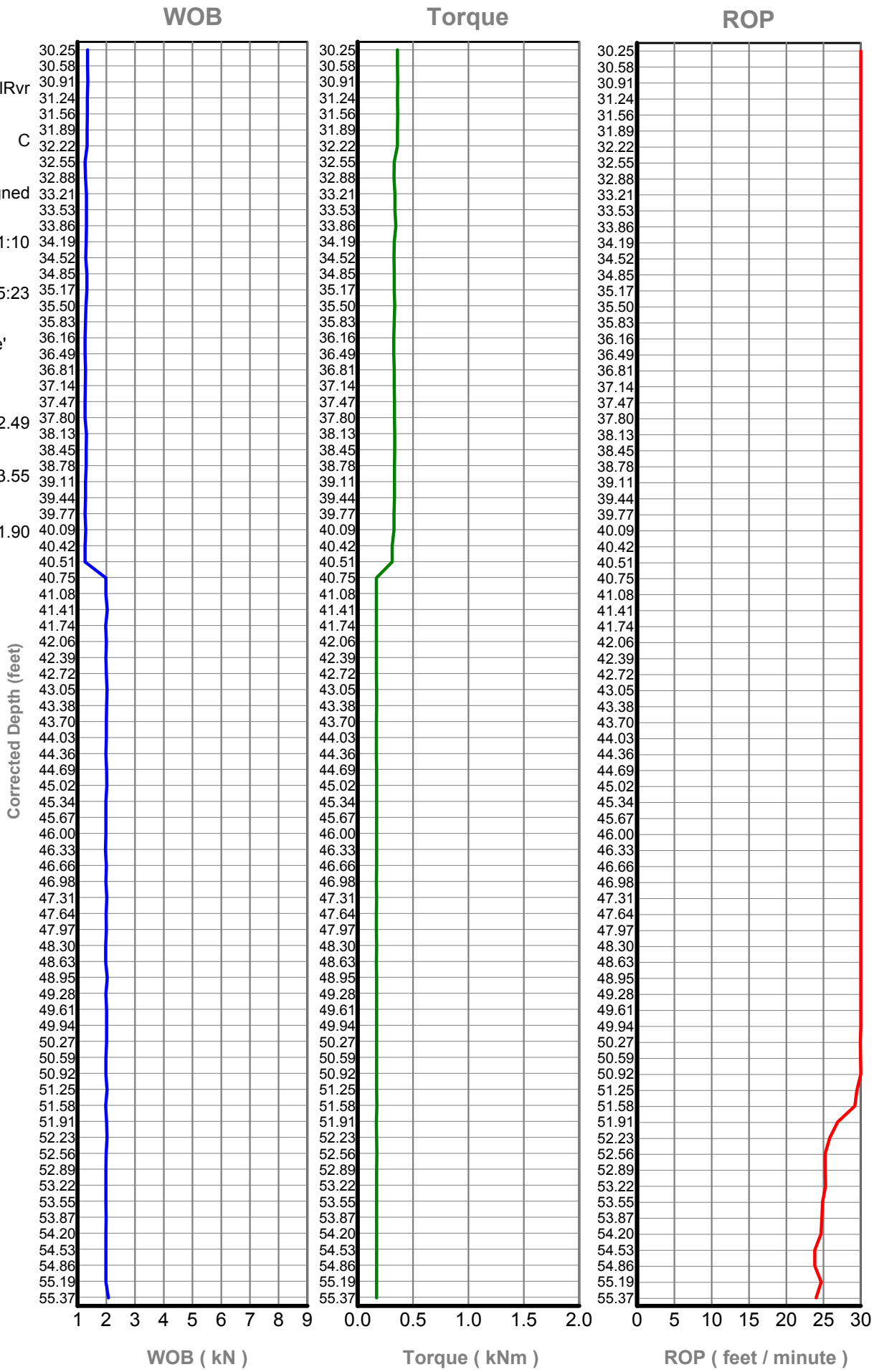
**End Date:**
4/23/2015 21:25:23

**Operator Note:**
'1.9 1.9 c Auto Complete'

**Northing:**
367,212.49

**Easting:**
251,473.55

**Tide (feet):**
1.90



## Hole: H203 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:30:03 | 31.82 | 30.22 | 639 | 1.99 | 0.17 | 35.0 |
| 4/23/2015 21:30:03 | 32.15 | 30.55 | 639 | 2.00 | 0.16 | 35.0 |
| 4/23/2015 21:30:04 | 32.48 | 30.88 | 647 | 1.99 | 0.17 | 35.4 |
| 4/23/2015 21:30:04 | 32.81 | 31.21 | 648 | 1.98 | 0.16 | 35.4 |
| 4/23/2015 21:30:05 | 33.14 | 31.54 | 644 | 2.04 | 0.16 | 35.2 |
| 4/23/2015 21:30:05 | 33.46 | 31.86 | 647 | 2.00 | 0.17 | 35.4 |
| 4/23/2015 21:30:06 | 33.79 | 32.19 | 661 | 1.99 | 0.16 | 36.1 |
| 4/23/2015 21:30:06 | 34.12 | 32.52 | 650 | 1.99 | 0.16 | 35.6 |
| 4/23/2015 21:30:07 | 34.45 | 32.85 | 647 | 1.99 | 0.16 | 35.4 |
| 4/23/2015 21:30:07 | 34.78 | 33.18 | 653 | 2.00 | 0.16 | 35.7 |
| 4/23/2015 21:30:08 | 35.11 | 33.51 | 650 | 1.99 | 0.09 | 35.6 |
| 4/23/2015 21:30:08 | 35.43 | 33.83 | 650 | 2.00 | 0.16 | 35.6 |
| 4/23/2015 21:30:09 | 35.76 | 34.16 | 650 | 1.99 | 0.17 | 35.6 |
| 4/23/2015 21:30:09 | 36.09 | 34.49 | 653 | 1.99 | 0.16 | 35.7 |
| 4/23/2015 21:30:10 | 36.42 | 34.82 | 650 | 2.00 | 0.17 | 35.6 |
| 4/23/2015 21:30:10 | 36.75 | 35.15 | 650 | 1.99 | 0.16 | 35.6 |
| 4/23/2015 21:30:11 | 37.07 | 35.47 | 647 | 1.98 | 0.16 | 35.4 |
| 4/23/2015 21:30:12 | 37.40 | 35.80 | 653 | 1.98 | 0.17 | 35.7 |
| 4/23/2015 21:30:13 | 37.73 | 36.13 | 650 | 1.98 | 0.16 | 35.6 |
| 4/23/2015 21:30:13 | 38.06 | 36.46 | 650 | 1.98 | 0.16 | 35.6 |
| 4/23/2015 21:30:14 | 38.39 | 36.79 | 657 | 2.00 | 0.16 | 35.9 |
| 4/23/2015 21:30:14 | 38.71 | 37.11 | 650 | 1.98 | 0.16 | 35.6 |
| 4/23/2015 21:30:15 | 39.04 | 37.44 | 650 | 1.99 | 0.17 | 35.6 |
| 4/23/2015 21:30:15 | 39.37 | 37.77 | 647 | 2.00 | 0.17 | 35.4 |
| 4/23/2015 21:30:16 | 39.70 | 38.10 | 649 | 1.95 | 0.16 | 35.5 |
| 4/23/2015 21:30:16 | 40.03 | 38.43 | 651 | 1.98 | 0.17 | 35.6 |
| 4/23/2015 21:30:17 | 40.35 | 38.75 | 651 | 1.97 | 0.17 | 35.6 |
| 4/23/2015 21:30:17 | 40.68 | 39.08 | 651 | 1.98 | 0.17 | 35.6 |
| 4/23/2015 21:30:18 | 41.01 | 39.41 | 657 | 1.99 | 0.17 | 35.9 |
| 4/23/2015 21:30:18 | 41.34 | 39.74 | 655 | 1.99 | 0.17 | 35.8 |
| 4/23/2015 21:30:19 | 41.67 | 40.07 | 648 | 1.96 | 0.17 | 35.4 |
| 4/23/2015 21:30:19 | 41.99 | 40.39 | 643 | 1.99 | 0.17 | 35.2 |
| 4/23/2015 21:30:20 | 42.32 | 40.72 | 651 | 1.98 | 0.17 | 35.6 |
| 4/23/2015 21:30:20 | 42.65 | 41.05 | 648 | 1.99 | 0.16 | 35.5 |
| 4/23/2015 21:30:21 | 42.98 | 41.38 | 645 | 1.99 | 0.17 | 35.3 |
| 4/23/2015 21:30:21 | 43.31 | 41.71 | 645 | 1.99 | 0.17 | 35.3 |
| 4/23/2015 21:30:23 | 43.64 | 42.04 | 645 | 2.02 | 0.17 | 35.3 |
| 4/23/2015 21:30:23 | 43.96 | 42.36 | 645 | 1.99 | 0.17 | 35.3 |
| 4/23/2015 21:30:24 | 44.29 | 42.69 | 645 | 1.99 | 0.17 | 35.3 |
| 4/23/2015 21:30:24 | 44.62 | 43.02 | 648 | 1.99 | 0.16 | 35.4 |
| 4/23/2015 21:30:25 | 44.95 | 43.35 | 645 | 1.98 | 0.17 | 35.2 |
| 4/23/2015 21:30:25 | 45.28 | 43.68 | 645 | 1.98 | 0.17 | 35.2 |
| 4/23/2015 21:30:26 | 45.60 | 44.00 | 638 | 2.00 | 0.17 | 34.9 |
| 4/23/2015 21:30:26 | 45.93 | 44.33 | 648 | 1.99 | 0.17 | 35.4 |
| 4/23/2015 21:30:27 | 46.26 | 44.66 | 642 | 2.00 | 0.17 | 35.1 |
| 4/23/2015 21:30:27 | 46.59 | 44.99 | 645 | 1.98 | 0.17 | 35.3 |
| 4/23/2015 21:30:28 | 46.92 | 45.32 | 645 | 2.00 | 0.17 | 35.3 |
| 4/23/2015 21:30:28 | 47.24 | 45.64 | 650 | 2.00 | 0.17 | 35.6 |
| 4/23/2015 21:30:29 | 47.57 | 45.97 | 645 | 1.99 | 0.17 | 35.2 |
| 4/23/2015 21:30:29 | 47.90 | 46.30 | 645 | 1.99 | 0.17 | 35.2 |
| 4/23/2015 21:30:30 | 48.23 | 46.63 | 641 | 1.99 | 0.17 | 35.0 |
| 4/23/2015 21:30:31 | 48.56 | 46.96 | 642 | 1.99 | 0.17 | 35.1 |
| 4/23/2015 21:30:31 | 48.88 | 47.28 | 642 | 1.99 | 0.17 | 35.1 |
| 4/23/2015 21:30:32 | 49.21 | 47.61 | 645 | 2.00 | 0.17 | 35.2 |
| 4/23/2015 21:30:33 | 49.54 | 47.94 | 645 | 1.98 | 0.17 | 35.2 |
| 4/23/2015 21:30:33 | 49.87 | 48.27 | 642 | 2.02 | 0.17 | 35.1 |
| 4/23/2015 21:30:34 | 50.20 | 48.60 | 642 | 1.98 | 0.17 | 35.1 |
| 4/23/2015 21:30:34 | 50.53 | 48.93 | 635 | 1.98 | 0.17 | 34.7 |
| 4/23/2015 21:30:35 | 50.85 | 49.25 | 636 | 2.00 | 0.17 | 34.8 |
| 4/23/2015 21:30:35 | 51.18 | 49.58 | 630 | 1.99 | 0.17 | 34.5 |
| 4/23/2015 21:30:36 | 51.51 | 49.91 | 617 | 1.99 | 0.17 | 33.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:30:36 | 51.84 | 50.24 | 614 | 1.99 | 0.17 | 33.6 |
| 4/23/2015 | 21:30:37 | 52.17 | 50.57 | 614 | 1.99 | 0.17 | 33.6 |
| 4/23/2015 | 21:30:38 | 52.49 | 50.89 | 620 | 1.99 | 0.17 | 33.9 |
| 4/23/2015 | 21:30:38 | 52.82 | 51.22 | 624 | 1.98 | 0.17 | 34.1 |
| 4/23/2015 | 21:30:39 | 53.15 | 51.55 | 639 | 1.99 | 0.17 | 35.0 |
| 4/23/2015 | 21:30:39 | 53.48 | 51.88 | 643 | 1.99 | 0.17 | 35.2 |
| 4/23/2015 | 21:30:40 | 53.81 | 52.21 | 639 | 2.00 | 0.17 | 34.9 |
| 4/23/2015 | 21:30:40 | 54.13 | 52.53 | 639 | 1.98 | 0.17 | 34.9 |
| 4/23/2015 | 21:30:41 | 54.46 | 52.86 | 639 | 2.00 | 0.17 | 34.9 |
| 4/23/2015 | 21:30:41 | 54.79 | 53.19 | 636 | 2.00 | 0.17 | 34.8 |
| 4/23/2015 | 21:30:42 | 55.12 | 53.52 | 636 | 1.99 | 0.17 | 34.8 |
| 4/23/2015 | 21:31:09 | 55.45 | 53.85 | 47 | 1.99 | 1.24 | 2.6 |
| 4/23/2015 | 21:31:10 | 55.77 | 54.17 | 151 | 2.04 | 1.20 | 8.3 |
| 4/23/2015 | 21:31:19 | 56.10 | 54.50 | 0 | 1.99 | 1.12 | 0.0 |
| 4/23/2015 | 21:31:20 | 56.43 | 54.83 | 154 | 2.00 | 1.17 | 8.4 |
| 4/23/2015 | 21:31:22 | 56.76 | 55.16 | 323 | 1.99 | 1.07 | 17.7 |
| 4/23/2015 | 21:31:22 | 57.03 | 55.43 | 327 | 2.02 | 1.07 | 17.9 |

## H203 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:28:21

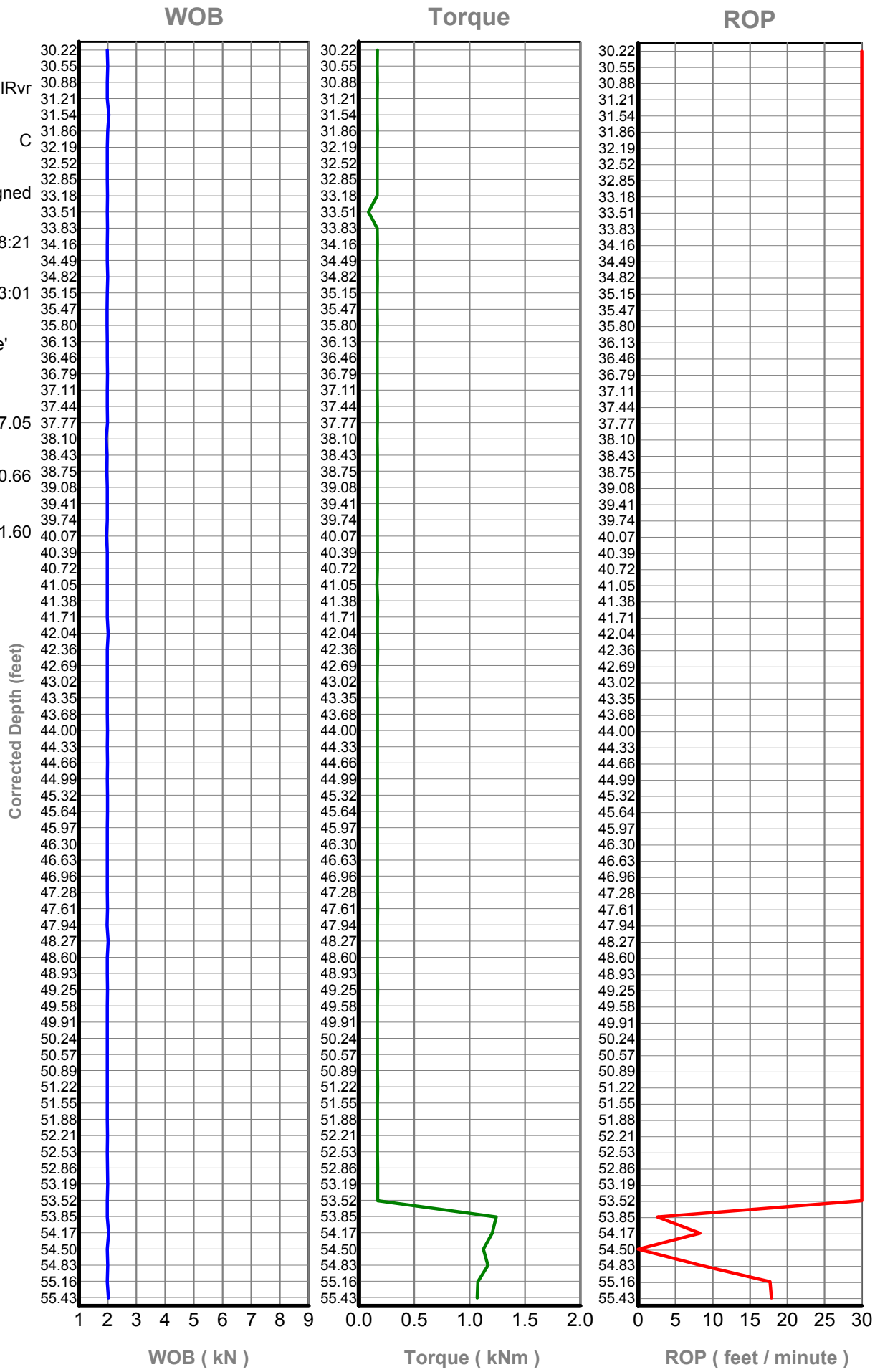
**End Date:**
4/23/2015 21:33:01

**Operator Note:**
'1.6 1.8 c Auto Complete'

**Northing:**
367,247.05

**Easting:**
251,520.66

**Tide (feet):**
1.60



## Hole: H204 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:23:04 | 32.15 | 30.25 | 821 | 1.28 | 0.37 | 44.9 |
| 4/23/2015 21:23:04 | 32.48 | 30.58 | 816 | 1.29 | 0.37 | 44.6 |
| 4/23/2015 21:23:07 | 32.81 | 30.91 | 0 | 1.17 | 0.31 | 0.0 |
| 4/23/2015 21:23:08 | 33.14 | 31.24 | 11 | 1.17 | 0.34 | 0.6 |
| 4/23/2015 21:23:08 | 33.46 | 31.56 | 173 | 1.21 | 0.34 | 9.5 |
| 4/23/2015 21:23:09 | 33.79 | 31.89 | 333 | 1.22 | 0.34 | 18.2 |
| 4/23/2015 21:23:09 | 34.12 | 32.22 | 501 | 1.21 | 0.34 | 27.4 |
| 4/23/2015 21:23:10 | 34.45 | 32.55 | 661 | 1.22 | 0.34 | 36.1 |
| 4/23/2015 21:23:10 | 34.78 | 32.88 | 807 | 1.22 | 0.34 | 44.2 |
| 4/23/2015 21:23:11 | 35.11 | 33.21 | 807 | 1.22 | 0.34 | 44.2 |
| 4/23/2015 21:23:11 | 35.43 | 33.53 | 806 | 1.21 | 0.34 | 44.1 |
| 4/23/2015 21:23:11 | 35.76 | 33.86 | 816 | 1.22 | 0.34 | 44.6 |
| 4/23/2015 21:23:12 | 36.09 | 34.19 | 811 | 1.22 | 0.34 | 44.3 |
| 4/23/2015 21:23:13 | 36.42 | 34.52 | 819 | 1.21 | 0.34 | 44.8 |
| 4/23/2015 21:23:13 | 36.75 | 34.85 | 820 | 1.21 | 0.34 | 44.9 |
| 4/23/2015 21:23:14 | 37.07 | 35.17 | 820 | 1.21 | 0.34 | 44.9 |
| 4/23/2015 21:23:14 | 37.40 | 35.50 | 828 | 1.21 | 0.36 | 45.3 |
| 4/23/2015 21:23:14 | 37.73 | 35.83 | 824 | 1.21 | 0.34 | 45.1 |
| 4/23/2015 21:23:15 | 38.06 | 36.16 | 832 | 1.21 | 0.34 | 45.5 |
| 4/23/2015 21:23:15 | 38.39 | 36.49 | 830 | 1.21 | 0.34 | 45.4 |
| 4/23/2015 21:23:16 | 38.71 | 36.81 | 837 | 1.21 | 0.33 | 45.8 |
| 4/23/2015 21:23:16 | 39.04 | 37.14 | 837 | 1.21 | 0.33 | 45.8 |
| 4/23/2015 21:23:16 | 39.37 | 37.47 | 832 | 1.21 | 0.34 | 45.5 |
| 4/23/2015 21:23:17 | 39.70 | 37.80 | 830 | 1.20 | 0.33 | 45.4 |
| 4/23/2015 21:23:45 | 40.03 | 38.13 | 16 | 1.16 | 0.35 | 0.9 |
| 4/23/2015 21:23:46 | 40.35 | 38.45 | 16 | 0.26 | 0.35 | 0.9 |
| 4/23/2015 21:23:46 | 40.68 | 38.78 | 165 | 0.26 | 0.34 | 9.0 |
| 4/23/2015 21:23:47 | 41.01 | 39.11 | 165 | 0.26 | 0.34 | 9.0 |
| 4/23/2015 21:23:47 | 41.34 | 39.44 | 326 | 0.26 | 0.34 | 17.8 |
| 4/23/2015 21:23:47 | 41.67 | 39.77 | 479 | 0.26 | 0.34 | 26.2 |
| 4/23/2015 21:23:48 | 41.99 | 40.09 | 631 | 0.26 | 0.34 | 34.5 |
| 4/23/2015 21:23:48 | 42.32 | 40.42 | 768 | 0.26 | 0.34 | 42.0 |
| 4/23/2015 21:23:49 | 42.65 | 40.75 | 761 | 0.26 | 0.34 | 41.6 |
| 4/23/2015 21:23:49 | 42.98 | 41.08 | 761 | 0.26 | 0.34 | 41.6 |
| 4/23/2015 21:23:50 | 43.31 | 41.41 | 755 | 0.27 | 0.34 | 41.3 |
| 4/23/2015 21:23:50 | 43.64 | 41.74 | 755 | 0.25 | 0.35 | 41.3 |
| 4/23/2015 21:23:51 | 43.96 | 42.06 | 755 | 0.25 | 0.35 | 41.3 |
| 4/23/2015 21:23:51 | 44.29 | 42.39 | 757 | 0.26 | 0.34 | 41.4 |
| 4/23/2015 21:23:51 | 44.62 | 42.72 | 762 | 0.26 | 0.26 | 41.7 |
| 4/23/2015 21:23:52 | 44.95 | 43.05 | 762 | 0.26 | 0.34 | 41.7 |
| 4/23/2015 21:23:52 | 45.28 | 43.38 | 774 | 0.26 | 0.34 | 42.3 |
| 4/23/2015 21:23:53 | 45.60 | 43.70 | 769 | 0.26 | 0.34 | 42.1 |
| 4/23/2015 21:23:53 | 45.93 | 44.03 | 764 | 0.26 | 0.35 | 41.8 |
| 4/23/2015 21:23:54 | 46.26 | 44.36 | 764 | 0.29 | 0.35 | 41.8 |
| 4/23/2015 21:23:55 | 46.59 | 44.69 | 762 | 0.27 | 0.34 | 41.7 |
| 4/23/2015 21:23:55 | 46.92 | 45.02 | 762 | 0.28 | 0.34 | 41.7 |
| 4/23/2015 21:23:56 | 47.24 | 45.34 | 762 | 0.28 | 0.34 | 41.7 |
| 4/23/2015 21:23:56 | 47.57 | 45.67 | 769 | 0.26 | 0.34 | 42.1 |
| 4/23/2015 21:23:56 | 47.90 | 46.00 | 764 | 0.26 | 0.34 | 41.8 |
| 4/23/2015 21:23:57 | 48.23 | 46.33 | 762 | 0.26 | 0.34 | 41.7 |
| 4/23/2015 21:23:57 | 48.56 | 46.66 | 779 | 0.27 | 0.34 | 42.6 |
| 4/23/2015 21:23:58 | 48.88 | 46.98 | 780 | 0.28 | 0.34 | 42.7 |
| 4/23/2015 21:23:58 | 49.21 | 47.31 | 770 | 0.26 | 0.34 | 42.1 |
| 4/23/2015 21:23:59 | 49.54 | 47.64 | 778 | 0.26 | 0.34 | 42.5 |
| 4/23/2015 21:23:59 | 49.87 | 47.97 | 775 | 0.26 | 0.34 | 42.4 |
| 4/23/2015 21:24:00 | 50.20 | 48.30 | 775 | 0.26 | 0.34 | 42.4 |
| 4/23/2015 21:24:00 | 50.53 | 48.63 | 772 | 0.02 | 0.34 | 42.2 |
| 4/23/2015 21:24:00 | 50.85 | 48.95 | 769 | 0.25 | 0.35 | 42.0 |
| 4/23/2015 21:24:01 | 51.18 | 49.28 | 777 | 0.26 | 0.34 | 42.5 |
| 4/23/2015 21:24:01 | 51.51 | 49.61 | 766 | 0.26 | 0.35 | 41.9 |
| 4/23/2015 21:24:02 | 51.84 | 49.94 | 763 | 0.26 | 0.34 | 41.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/23/2015 21:24:02 | 52.17 | 50.27 | 759 | 0.25 | 0.34 | 41.5 |
| 4/23/2015 21:24:03 | 52.49 | 50.59 | 766 | 0.26 | 0.34 | 41.9 |
| 4/23/2015 21:24:03 | 52.82 | 50.92 | 759 | 0.24 | 0.34 | 41.5 |
| 4/23/2015 21:24:04 | 53.15 | 51.25 | 762 | 0.26 | 0.34 | 41.7 |
| 4/23/2015 21:24:04 | 53.48 | 51.58 | 762 | 0.26 | 0.34 | 41.7 |
| 4/23/2015 21:24:05 | 53.81 | 51.91 | 769 | 0.25 | 0.35 | 42.0 |
| 4/23/2015 21:24:30 | 54.13 | 52.23 | 0 | 6.56 | 0.38 | 0.0 |
| 4/23/2015 21:24:31 | 54.46 | 52.56 | 97 | 5.15 | 0.41 | 5.3 |
| 4/23/2015 21:24:34 | 54.79 | 52.89 | 138 | 4.83 | 0.39 | 7.5 |
| 4/23/2015 21:24:35 | 55.12 | 53.22 | 130 | 4.86 | 0.38 | 7.1 |
| 4/23/2015 21:24:37 | 55.45 | 53.55 | 222 | 4.16 | 0.38 | 12.1 |
| 4/23/2015 21:24:38 | 55.77 | 53.87 | 312 | 4.26 | 0.38 | 17.1 |
| 4/23/2015 21:24:39 | 56.10 | 54.20 | 367 | 3.90 | 0.38 | 20.1 |
| 4/23/2015 21:24:40 | 56.43 | 54.53 | 350 | 3.11 | 0.37 | 19.1 |
| 4/23/2015 21:24:40 | 56.76 | 54.86 | 365 | 2.99 | 0.36 | 19.9 |
| 4/23/2015 21:24:41 | 57.09 | 55.19 | 431 | 3.43 | 0.41 | 23.5 |
| 4/23/2015 21:24:41 | 57.19 | 55.29 | 431 | 3.43 | 0.41 | 23.5 |

## H204 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 21:20:08

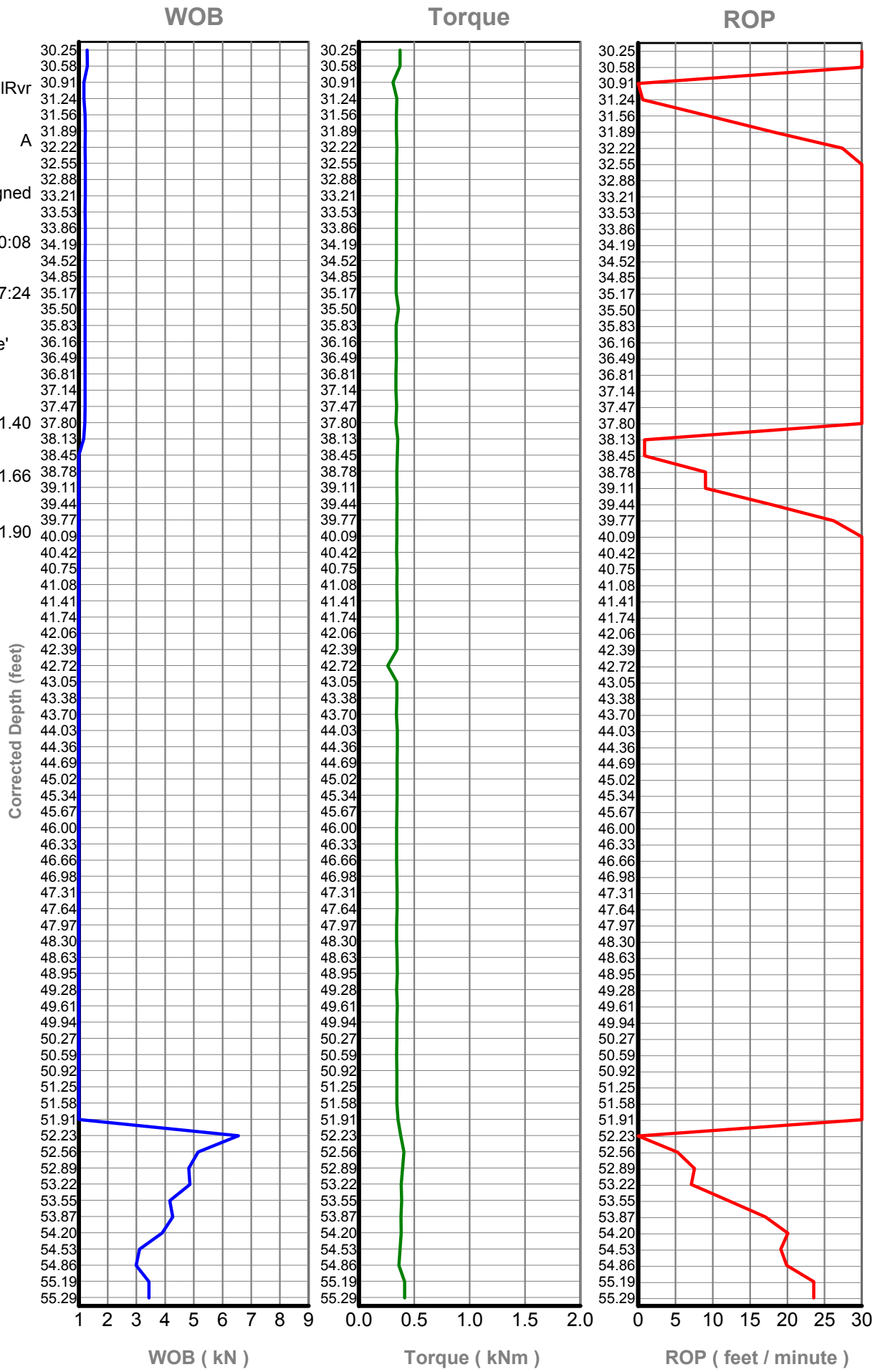
**End Date:**
4/23/2015 21:27:24

**Operator Note:**
'1.9 1.9 b Auto Complete'

**Northing:**
367,291.40

**Easting:**
251,581.66

**Tide (feet):**
1.90



## Hole: H205 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:07:56 | 31.50 | 30.30 | 820 | 0.41 | 0.34 | 44.8 |
| 4/23/2015 11:07:56 | 31.82 | 30.62 | 818 | 0.41 | 0.34 | 44.7 |
| 4/23/2015 11:07:56 | 32.15 | 30.95 | 835 | 0.42 | 0.33 | 45.7 |
| 4/23/2015 11:07:57 | 32.48 | 31.28 | 830 | 0.42 | 0.34 | 45.4 |
| 4/23/2015 11:07:57 | 32.81 | 31.61 | 835 | 0.41 | 0.34 | 45.7 |
| 4/23/2015 11:07:58 | 33.14 | 31.94 | 835 | 0.41 | 0.34 | 45.7 |
| 4/23/2015 11:07:58 | 33.46 | 32.26 | 844 | 0.41 | 0.34 | 46.2 |
| 4/23/2015 11:07:58 | 33.79 | 32.59 | 844 | 0.46 | 0.34 | 46.2 |
| 4/23/2015 11:07:59 | 34.12 | 32.92 | 841 | 0.35 | 0.34 | 46.0 |
| 4/23/2015 11:08:00 | 34.45 | 33.25 | 833 | 0.41 | 0.34 | 45.6 |
| 4/23/2015 11:08:00 | 34.78 | 33.58 | 835 | 0.31 | 0.33 | 45.7 |
| 4/23/2015 11:08:01 | 35.11 | 33.91 | 835 | 0.31 | 0.33 | 45.7 |
| 4/23/2015 11:08:01 | 35.43 | 34.23 | 833 | 0.43 | 0.34 | 45.5 |
| 4/23/2015 11:08:01 | 35.76 | 34.56 | 833 | 0.37 | 0.33 | 45.5 |
| 4/23/2015 11:08:02 | 36.09 | 34.89 | 824 | 0.41 | 0.34 | 45.0 |
| 4/23/2015 11:08:02 | 36.42 | 35.22 | 824 | 0.41 | 0.34 | 45.0 |
| 4/23/2015 11:08:03 | 36.75 | 35.55 | 822 | 0.40 | 0.34 | 45.0 |
| 4/23/2015 11:08:03 | 37.07 | 35.87 | 822 | 0.40 | 0.34 | 45.0 |
| 4/23/2015 11:08:03 | 37.40 | 36.20 | 822 | 0.39 | 0.34 | 45.0 |
| 4/23/2015 11:08:04 | 37.73 | 36.53 | 823 | 0.40 | 0.34 | 45.0 |
| 4/23/2015 11:08:04 | 38.06 | 36.86 | 828 | 0.40 | 0.34 | 45.3 |
| 4/23/2015 11:08:05 | 38.39 | 37.19 | 826 | 0.40 | 0.33 | 45.2 |
| 4/23/2015 11:08:05 | 38.71 | 37.51 | 826 | 0.40 | 0.33 | 45.2 |
| 4/23/2015 11:08:05 | 39.04 | 37.84 | 843 | 0.39 | 0.34 | 46.1 |
| 4/23/2015 11:08:06 | 39.37 | 38.17 | 835 | 0.39 | 0.33 | 45.7 |
| 4/23/2015 11:08:06 | 39.70 | 38.50 | 835 | 0.39 | 0.33 | 45.7 |
| 4/23/2015 11:08:07 | 40.03 | 38.83 | 838 | 0.39 | 0.34 | 45.8 |
| 4/23/2015 11:08:07 | 40.35 | 39.15 | 839 | 0.33 | 0.33 | 45.9 |
| 4/23/2015 11:08:08 | 40.68 | 39.48 | 839 | 0.33 | 0.33 | 45.9 |
| 4/23/2015 11:08:08 | 41.01 | 39.81 | 835 | 0.31 | 0.33 | 45.6 |
| 4/23/2015 11:08:08 | 41.34 | 40.14 | 849 | 0.31 | 0.33 | 46.4 |
| 4/23/2015 11:08:09 | 41.67 | 40.47 | 867 | 0.31 | 0.33 | 47.4 |
| 4/23/2015 11:08:10 | 41.99 | 40.79 | 867 | 0.31 | 0.33 | 47.4 |
| 4/23/2015 11:08:10 | 42.32 | 41.12 | 874 | 0.31 | 0.33 | 47.8 |
| 4/23/2015 11:08:10 | 42.65 | 41.45 | 876 | 0.31 | 0.33 | 47.9 |
| 4/23/2015 11:08:11 | 42.98 | 41.78 | 905 | 0.31 | 0.33 | 49.5 |
| 4/23/2015 11:08:11 | 43.31 | 42.11 | 905 | 0.31 | 0.33 | 49.5 |
| 4/23/2015 11:08:11 | 43.64 | 42.44 | 897 | 0.31 | 0.33 | 49.0 |
| 4/23/2015 11:08:12 | 43.96 | 42.76 | 908 | 0.32 | 0.33 | 49.7 |
| 4/23/2015 11:08:12 | 44.29 | 43.09 | 906 | 0.31 | 0.32 | 49.5 |
| 4/23/2015 11:08:13 | 44.62 | 43.42 | 906 | 0.31 | 0.32 | 49.5 |
| 4/23/2015 11:08:13 | 44.95 | 43.75 | 919 | 0.32 | 0.33 | 50.3 |
| 4/23/2015 11:08:13 | 45.28 | 44.08 | 916 | 0.31 | 0.33 | 50.1 |
| 4/23/2015 11:08:14 | 45.60 | 44.40 | 916 | 0.31 | 0.33 | 50.1 |
| 4/23/2015 11:08:14 | 45.93 | 44.73 | 916 | 0.31 | 0.33 | 50.1 |
| 4/23/2015 11:08:14 | 46.26 | 45.06 | 911 | 0.31 | 0.33 | 49.8 |
| 4/23/2015 11:08:15 | 46.59 | 45.39 | 913 | 0.33 | 0.33 | 50.0 |
| 4/23/2015 11:08:15 | 46.92 | 45.72 | 905 | 0.32 | 0.33 | 49.5 |
| 4/23/2015 11:08:16 | 47.24 | 46.04 | 902 | 0.32 | 0.33 | 49.3 |
| 4/23/2015 11:08:16 | 47.57 | 46.37 | 902 | 0.32 | 0.33 | 49.3 |
| 4/23/2015 11:08:16 | 47.90 | 46.70 | 908 | 0.32 | 0.33 | 49.6 |
| 4/23/2015 11:08:17 | 48.23 | 47.03 | 910 | 0.32 | 0.33 | 49.8 |
| 4/23/2015 11:08:17 | 48.56 | 47.36 | 910 | 0.32 | 0.33 | 49.8 |
| 4/23/2015 11:08:18 | 48.88 | 47.68 | 910 | 0.32 | 0.33 | 49.8 |
| 4/23/2015 11:08:18 | 49.21 | 48.01 | 913 | 0.33 | 0.33 | 49.9 |
| 4/23/2015 11:08:18 | 49.54 | 48.34 | 901 | 0.32 | 0.32 | 49.2 |
| 4/23/2015 11:08:19 | 49.87 | 48.67 | 901 | 0.32 | 0.32 | 49.2 |
| 4/23/2015 11:08:19 | 50.20 | 49.00 | 909 | 0.32 | 0.33 | 49.7 |
| 4/23/2015 11:08:20 | 50.53 | 49.33 | 920 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 11:08:20 | 50.85 | 49.65 | 918 | 0.32 | 0.33 | 50.2 |
| 4/23/2015 11:08:21 | 51.18 | 49.98 | 918 | 0.32 | 0.33 | 50.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:08:21 | 51.51 | 50.31 | 921 | 0.31 | 0.33 | 50.4 |
| 4/23/2015 | 11:08:21 | 51.84 | 50.64 | 934 | 0.32 | 0.33 | 51.1 |
| 4/23/2015 | 11:08:22 | 52.17 | 50.97 | 923 | 0.32 | 0.33 | 50.5 |
| 4/23/2015 | 11:08:22 | 52.49 | 51.29 | 923 | 0.32 | 0.33 | 50.5 |
| 4/23/2015 | 11:08:22 | 52.82 | 51.62 | 903 | 0.32 | 0.33 | 49.4 |
| 4/23/2015 | 11:08:23 | 53.15 | 51.95 | 917 | 0.31 | 0.33 | 50.2 |
| 4/23/2015 | 11:08:23 | 53.48 | 52.28 | 909 | 0.31 | 0.33 | 49.7 |
| 4/23/2015 | 11:08:24 | 53.81 | 52.61 | 909 | 0.31 | 0.33 | 49.7 |
| 4/23/2015 | 11:08:24 | 54.13 | 52.93 | 909 | 0.32 | 0.33 | 49.7 |
| 4/23/2015 | 11:08:24 | 54.46 | 53.26 | 906 | 0.32 | 0.33 | 49.5 |
| 4/23/2015 | 11:08:25 | 54.79 | 53.59 | 908 | 0.31 | 0.32 | 49.7 |
| 4/23/2015 | 11:08:25 | 55.12 | 53.92 | 899 | 0.32 | 0.33 | 49.2 |
| 4/23/2015 | 11:08:26 | 55.45 | 54.25 | 899 | 0.32 | 0.33 | 49.2 |
| 4/23/2015 | 11:08:33 | 55.77 | 54.57 | 0 | 3.39 | 0.35 | 0.0 |
| 4/23/2015 | 11:08:34 | 56.10 | 54.90 | 106 | 2.85 | 0.34 | 5.8 |
| 4/23/2015 | 11:08:34 | 56.43 | 55.23 | 253 | 2.75 | 0.38 | 13.8 |
| 4/23/2015 | 11:08:34 | 56.51 | 55.31 | 253 | 2.75 | 0.38 | 13.8 |

## H205 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 10:35:31

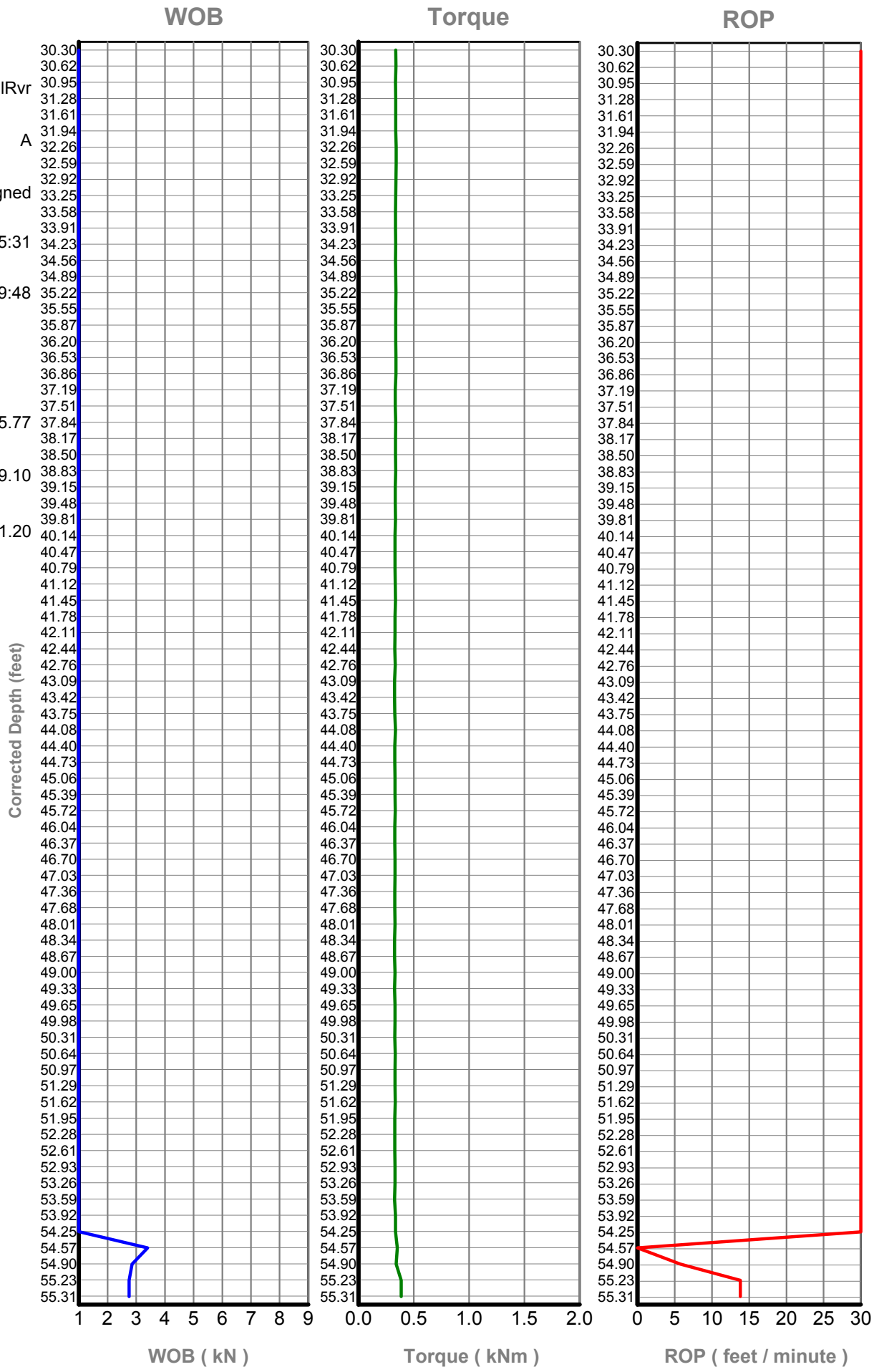
**End Date:**
4/23/2015 11:09:48

**Operator Note:**
'1.2 '0.8 0.9 b Auto Complete'

**Northing:**
367,345.77

**Easting:**
251,649.10

**Tide (feet):**
1.20



## Hole: H206 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:11:21 | 30.84 | 30.14 | 943 | 0.46 | 0.35 | 51.5 |
| 4/23/2015 11:11:21 | 31.17 | 30.47 | 913 | 0.46 | 0.35 | 49.9 |
| 4/23/2015 11:11:22 | 31.50 | 30.80 | 932 | 0.45 | 0.34 | 51.0 |
| 4/23/2015 11:11:22 | 31.82 | 31.12 | 932 | 0.45 | 0.34 | 51.0 |
| 4/23/2015 11:11:22 | 32.15 | 31.45 | 920 | 0.45 | 0.34 | 50.3 |
| 4/23/2015 11:11:23 | 32.48 | 31.78 | 917 | 0.45 | 0.34 | 50.1 |
| 4/23/2015 11:11:23 | 32.81 | 32.11 | 908 | 0.44 | 0.35 | 49.7 |
| 4/23/2015 11:11:24 | 33.14 | 32.44 | 908 | 0.44 | 0.35 | 49.7 |
| 4/23/2015 11:11:24 | 33.46 | 32.76 | 908 | 0.45 | 0.34 | 49.7 |
| 4/23/2015 11:11:24 | 33.79 | 33.09 | 931 | 0.44 | 0.35 | 50.9 |
| 4/23/2015 11:11:25 | 34.12 | 33.42 | 926 | 0.44 | 0.35 | 50.7 |
| 4/23/2015 11:11:25 | 34.45 | 33.75 | 926 | 0.44 | 0.35 | 50.7 |
| 4/23/2015 11:11:25 | 34.78 | 34.08 | 929 | 0.44 | 0.34 | 50.8 |
| 4/23/2015 11:11:26 | 35.11 | 34.41 | 929 | 0.41 | 0.34 | 50.8 |
| 4/23/2015 11:11:27 | 35.43 | 34.73 | 941 | 0.44 | 0.34 | 51.4 |
| 4/23/2015 11:11:27 | 35.76 | 35.06 | 941 | 0.44 | 0.34 | 51.4 |
| 4/23/2015 11:11:27 | 36.09 | 35.39 | 923 | 0.44 | 0.34 | 50.5 |
| 4/23/2015 11:11:28 | 36.42 | 35.72 | 933 | 0.44 | 0.35 | 51.0 |
| 4/23/2015 11:11:28 | 36.75 | 36.05 | 922 | 0.44 | 0.34 | 50.4 |
| 4/23/2015 11:11:29 | 37.07 | 36.37 | 922 | 0.44 | 0.34 | 50.4 |
| 4/23/2015 11:11:29 | 37.40 | 36.70 | 919 | 0.45 | 0.34 | 50.3 |
| 4/23/2015 11:11:29 | 37.73 | 37.03 | 909 | 0.43 | 0.34 | 49.7 |
| 4/23/2015 11:11:30 | 38.06 | 37.36 | 909 | 0.43 | 0.34 | 49.7 |
| 4/23/2015 11:11:30 | 38.39 | 37.69 | 920 | 0.44 | 0.34 | 50.3 |
| 4/23/2015 11:11:30 | 38.71 | 38.01 | 923 | 0.43 | 0.34 | 50.5 |
| 4/23/2015 11:11:31 | 39.04 | 38.34 | 926 | 0.44 | 0.34 | 50.7 |
| 4/23/2015 11:11:31 | 39.37 | 38.67 | 926 | 0.44 | 0.34 | 50.7 |
| 4/23/2015 11:11:31 | 39.70 | 39.00 | 924 | 0.43 | 0.34 | 50.5 |
| 4/23/2015 11:11:32 | 40.03 | 39.33 | 942 | 0.44 | 0.34 | 51.5 |
| 4/23/2015 11:11:32 | 40.35 | 39.65 | 934 | 0.43 | 0.34 | 51.1 |
| 4/23/2015 11:11:33 | 40.68 | 39.98 | 934 | 0.43 | 0.34 | 51.1 |
| 4/23/2015 11:11:33 | 41.01 | 40.31 | 937 | 0.45 | 0.35 | 51.2 |
| 4/23/2015 11:11:33 | 41.34 | 40.64 | 934 | 0.45 | 0.34 | 51.1 |
| 4/23/2015 11:11:34 | 41.67 | 40.97 | 931 | 0.44 | 0.34 | 50.9 |
| 4/23/2015 11:11:34 | 41.99 | 41.29 | 931 | 0.44 | 0.34 | 50.9 |
| 4/23/2015 11:11:34 | 42.32 | 41.62 | 928 | 0.45 | 0.34 | 50.7 |
| 4/23/2015 11:11:35 | 42.65 | 41.95 | 922 | 0.43 | 0.35 | 50.4 |
| 4/23/2015 11:11:35 | 42.98 | 42.28 | 911 | 0.44 | 0.34 | 49.8 |
| 4/23/2015 11:11:36 | 43.31 | 42.61 | 911 | 0.44 | 0.34 | 49.8 |
| 4/23/2015 11:11:36 | 43.64 | 42.94 | 919 | 0.44 | 0.35 | 50.3 |
| 4/23/2015 11:11:36 | 43.96 | 43.26 | 916 | 0.43 | 0.34 | 50.1 |
| 4/23/2015 11:11:37 | 44.29 | 43.59 | 919 | 0.47 | 0.34 | 50.3 |
| 4/23/2015 11:11:38 | 44.62 | 43.92 | 919 | 0.47 | 0.34 | 50.3 |
| 4/23/2015 11:11:38 | 44.95 | 44.25 | 922 | 0.43 | 0.34 | 50.4 |
| 4/23/2015 11:11:38 | 45.28 | 44.58 | 931 | 0.44 | 0.34 | 50.9 |
| 4/23/2015 11:11:39 | 45.60 | 44.90 | 931 | 0.44 | 0.34 | 50.9 |
| 4/23/2015 11:11:39 | 45.93 | 45.23 | 928 | 0.44 | 0.34 | 50.7 |
| 4/23/2015 11:11:39 | 46.26 | 45.56 | 928 | 0.44 | 0.27 | 50.7 |
| 4/23/2015 11:11:40 | 46.59 | 45.89 | 916 | 0.43 | 0.34 | 50.1 |
| 4/23/2015 11:11:40 | 46.92 | 46.22 | 916 | 0.43 | 0.34 | 50.1 |
| 4/23/2015 11:11:40 | 47.24 | 46.54 | 922 | 0.37 | 0.34 | 50.4 |
| 4/23/2015 11:11:41 | 47.57 | 46.87 | 919 | 0.44 | 0.35 | 50.3 |
| 4/23/2015 11:11:41 | 47.90 | 47.20 | 919 | 0.43 | 0.36 | 50.3 |
| 4/23/2015 11:11:42 | 48.23 | 47.53 | 919 | 0.43 | 0.36 | 50.3 |
| 4/23/2015 11:11:42 | 48.56 | 47.86 | 922 | 0.30 | 0.32 | 50.4 |
| 4/23/2015 11:11:42 | 48.88 | 48.18 | 906 | 0.32 | 0.32 | 49.5 |
| 4/23/2015 11:11:43 | 49.21 | 48.51 | 906 | 0.31 | 0.32 | 49.5 |
| 4/23/2015 11:11:43 | 49.54 | 48.84 | 906 | 0.31 | 0.32 | 49.5 |
| 4/23/2015 11:11:43 | 49.87 | 49.17 | 918 | 0.31 | 0.32 | 50.2 |
| 4/23/2015 11:11:44 | 50.20 | 49.50 | 920 | 0.30 | 0.32 | 50.3 |
| 4/23/2015 11:11:44 | 50.53 | 49.83 | 920 | 0.30 | 0.32 | 50.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:11:44 | 50.85 | 50.15 | 942 | 0.31 | 0.32 | 51.5 |
| 4/23/2015 | 11:11:45 | 51.18 | 50.48 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 | 11:11:45 | 51.51 | 50.81 | 927 | 0.31 | 0.32 | 50.7 |
| 4/23/2015 | 11:11:46 | 51.84 | 51.14 | 927 | 0.31 | 0.32 | 50.7 |
| 4/23/2015 | 11:11:46 | 52.17 | 51.47 | 969 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 | 11:11:46 | 52.49 | 51.79 | 966 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 | 11:11:47 | 52.82 | 52.12 | 966 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 | 11:11:47 | 53.15 | 52.45 | 966 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 | 11:11:48 | 53.48 | 52.78 | 921 | 0.31 | 0.34 | 50.4 |
| 4/23/2015 | 11:11:48 | 53.81 | 53.11 | 921 | 0.33 | 0.33 | 50.4 |
| 4/23/2015 | 11:11:49 | 54.13 | 53.43 | 936 | 0.31 | 0.33 | 51.2 |
| 4/23/2015 | 11:11:49 | 54.46 | 53.76 | 936 | 0.31 | 0.33 | 51.2 |
| 4/23/2015 | 11:11:49 | 54.79 | 54.09 | 895 | 0.31 | 0.34 | 49.0 |
| 4/23/2015 | 11:11:50 | 55.12 | 54.42 | 855 | 0.31 | 0.34 | 46.8 |
| 4/23/2015 | 11:11:50 | 55.45 | 54.75 | 819 | 0.31 | 0.33 | 44.8 |
| 4/23/2015 | 11:11:51 | 55.77 | 55.07 | 806 | 0.31 | 0.34 | 44.1 |
| 4/23/2015 | 11:11:51 | 55.98 | 55.28 | 806 | 0.31 | 0.34 | 44.1 |

## H206 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:09:54

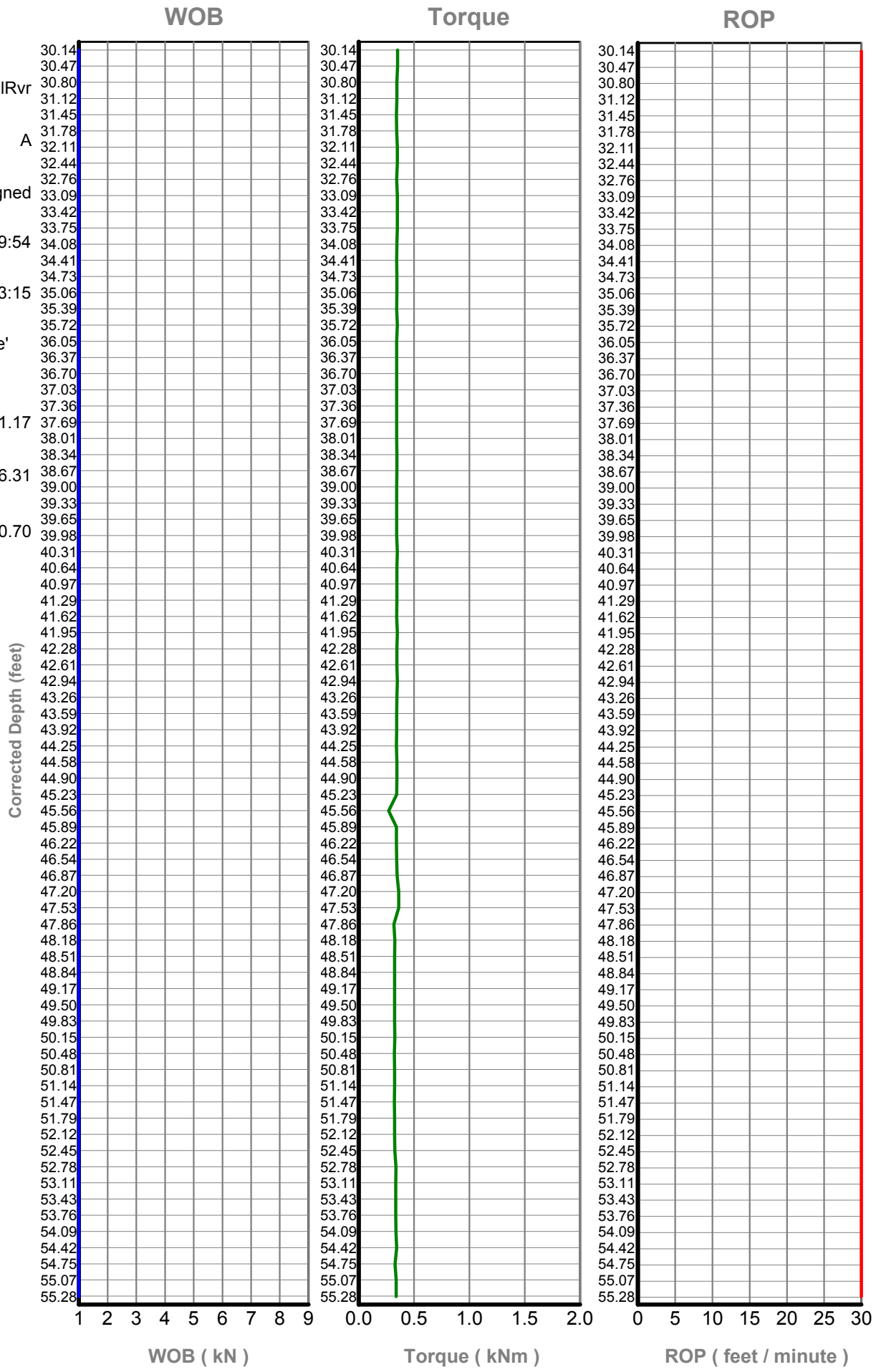
**End Date:**
4/23/2015 11:13:15

**Operator Note:**
'0.7 0.9 b Auto Complete'

**Northing:**
367,381.17

**Easting:**
251,696.31

**Tide (feet):**
0.70



## Hole: H207 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:10:38 | 30.84 | 30.04 | 424 | 1.59 | 0.29 | 23.2 |
| 4/23/2015 11:10:39 | 31.17 | 30.37 | 433 | 1.59 | 0.29 | 23.7 |
| 4/23/2015 11:10:40 | 31.50 | 30.70 | 440 | 1.63 | 0.29 | 24.1 |
| 4/23/2015 11:10:41 | 31.82 | 31.02 | 443 | 1.62 | 0.28 | 24.2 |
| 4/23/2015 11:10:42 | 32.15 | 31.35 | 443 | 1.61 | 0.29 | 24.2 |
| 4/23/2015 11:10:42 | 32.48 | 31.68 | 440 | 1.60 | 0.29 | 24.1 |
| 4/23/2015 11:10:43 | 32.81 | 32.01 | 448 | 1.59 | 0.29 | 24.5 |
| 4/23/2015 11:10:44 | 33.14 | 32.34 | 442 | 1.59 | 0.29 | 24.2 |
| 4/23/2015 11:10:45 | 33.46 | 32.66 | 442 | 1.65 | 0.29 | 24.2 |
| 4/23/2015 11:10:45 | 33.79 | 32.99 | 442 | 1.64 | 0.29 | 24.2 |
| 4/23/2015 11:10:47 | 34.12 | 33.32 | 442 | 1.57 | 0.30 | 24.2 |
| 4/23/2015 11:10:47 | 34.45 | 33.65 | 429 | 1.59 | 0.29 | 23.4 |
| 4/23/2015 11:10:48 | 34.78 | 33.98 | 436 | 1.58 | 0.29 | 23.8 |
| 4/23/2015 11:10:49 | 35.11 | 34.31 | 436 | 1.59 | 0.29 | 23.8 |
| 4/23/2015 11:10:50 | 35.43 | 34.63 | 431 | 1.59 | 0.29 | 23.6 |
| 4/23/2015 11:10:51 | 35.76 | 34.96 | 447 | 1.59 | 0.29 | 24.4 |
| 4/23/2015 11:10:51 | 36.09 | 35.29 | 437 | 1.59 | 0.29 | 23.9 |
| 4/23/2015 11:10:52 | 36.42 | 35.62 | 440 | 1.58 | 0.29 | 24.1 |
| 4/23/2015 11:10:53 | 36.75 | 35.95 | 445 | 1.62 | 0.29 | 24.3 |
| 4/23/2015 11:10:54 | 37.07 | 36.27 | 445 | 1.58 | 0.29 | 24.3 |
| 4/23/2015 11:10:54 | 37.40 | 36.60 | 439 | 1.62 | 0.29 | 24.0 |
| 4/23/2015 11:10:56 | 37.73 | 36.93 | 439 | 1.57 | 0.29 | 24.0 |
| 4/23/2015 11:10:57 | 38.06 | 37.26 | 431 | 1.59 | 0.29 | 23.6 |
| 4/23/2015 11:10:57 | 38.39 | 37.59 | 435 | 1.63 | 0.29 | 23.8 |
| 4/23/2015 11:10:58 | 38.71 | 37.91 | 438 | 1.58 | 0.29 | 23.9 |
| 4/23/2015 11:10:59 | 39.04 | 38.24 | 435 | 1.61 | 0.29 | 23.8 |
| 4/23/2015 11:11:00 | 39.37 | 38.57 | 437 | 1.66 | 0.29 | 23.9 |
| 4/23/2015 11:11:00 | 39.70 | 38.90 | 443 | 1.62 | 0.29 | 24.2 |
| 4/23/2015 11:11:01 | 40.03 | 39.23 | 443 | 1.58 | 0.28 | 24.2 |
| 4/23/2015 11:11:02 | 40.35 | 39.55 | 437 | 1.62 | 0.29 | 23.9 |
| 4/23/2015 11:11:03 | 40.68 | 39.88 | 443 | 1.58 | 0.29 | 24.2 |
| 4/23/2015 11:11:04 | 41.01 | 40.21 | 443 | 1.62 | 0.29 | 24.2 |
| 4/23/2015 11:11:04 | 41.34 | 40.54 | 443 | 1.61 | 0.28 | 24.2 |
| 4/23/2015 11:11:05 | 41.67 | 40.87 | 434 | 1.62 | 0.29 | 23.7 |
| 4/23/2015 11:11:06 | 41.99 | 41.19 | 437 | 1.59 | 0.29 | 23.9 |
| 4/23/2015 11:11:07 | 42.32 | 41.52 | 440 | 1.62 | 0.29 | 24.0 |
| 4/23/2015 11:11:08 | 42.65 | 41.85 | 442 | 1.66 | 0.29 | 24.2 |
| 4/23/2015 11:11:09 | 42.98 | 42.18 | 439 | 1.64 | 0.29 | 24.0 |
| 4/23/2015 11:11:10 | 43.31 | 42.51 | 439 | 1.56 | 0.28 | 24.0 |
| 4/23/2015 11:11:10 | 43.64 | 42.84 | 437 | 1.62 | 0.29 | 23.9 |
| 4/23/2015 11:11:11 | 43.96 | 43.16 | 439 | 1.57 | 0.28 | 24.0 |
| 4/23/2015 11:11:12 | 44.29 | 43.49 | 436 | 1.57 | 0.28 | 23.9 |
| 4/23/2015 11:11:13 | 44.62 | 43.82 | 439 | 1.61 | 0.28 | 24.0 |
| 4/23/2015 11:11:13 | 44.95 | 44.15 | 432 | 1.64 | 0.29 | 23.6 |
| 4/23/2015 11:11:14 | 45.28 | 44.48 | 432 | 1.62 | 0.28 | 23.6 |
| 4/23/2015 11:11:15 | 45.60 | 44.80 | 438 | 1.60 | 0.28 | 23.9 |
| 4/23/2015 11:11:16 | 45.93 | 45.13 | 437 | 1.58 | 0.28 | 23.9 |
| 4/23/2015 11:11:17 | 46.26 | 45.46 | 445 | 1.68 | 0.28 | 24.3 |
| 4/23/2015 11:11:18 | 46.59 | 45.79 | 439 | 1.62 | 0.28 | 24.0 |
| 4/23/2015 11:11:19 | 46.92 | 46.12 | 430 | 1.62 | 0.28 | 23.5 |
| 4/23/2015 11:11:19 | 47.24 | 46.44 | 436 | 1.57 | 0.28 | 23.8 |
| 4/23/2015 11:11:20 | 47.57 | 46.77 | 433 | 1.59 | 0.28 | 23.7 |
| 4/23/2015 11:11:21 | 47.90 | 47.10 | 433 | 1.57 | 0.28 | 23.7 |
| 4/23/2015 11:11:22 | 48.23 | 47.43 | 436 | 1.59 | 0.28 | 23.9 |
| 4/23/2015 11:11:23 | 48.56 | 47.76 | 434 | 1.85 | 0.29 | 23.7 |
| 4/23/2015 11:11:36 | 48.88 | 48.08 | 90 | 1.59 | 1.13 | 4.9 |
| 4/23/2015 11:11:37 | 49.21 | 48.41 | 228 | 1.57 | 1.13 | 12.5 |
| 4/23/2015 11:11:39 | 49.54 | 48.74 | 338 | 1.60 | 1.12 | 18.5 |
| 4/23/2015 11:11:40 | 49.87 | 49.07 | 335 | 1.59 | 1.12 | 18.3 |
| 4/23/2015 11:11:41 | 50.20 | 49.40 | 338 | 1.62 | 1.12 | 18.5 |
| 4/23/2015 11:11:42 | 50.53 | 49.73 | 329 | 1.59 | 1.12 | 18.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:11:43 | 50.85 | 50.05 | 325 | 1.60 | 1.12 | 17.8 |
| 4/23/2015 | 11:11:44 | 51.18 | 50.38 | 329 | 1.59 | 1.12 | 18.0 |
| 4/23/2015 | 11:11:45 | 51.51 | 50.71 | 335 | 1.61 | 1.11 | 18.3 |
| 4/23/2015 | 11:11:46 | 51.84 | 51.04 | 335 | 1.60 | 1.11 | 18.3 |
| 4/23/2015 | 11:11:47 | 52.17 | 51.37 | 321 | 1.59 | 1.11 | 17.6 |
| 4/23/2015 | 11:11:48 | 52.49 | 51.69 | 326 | 1.60 | 1.10 | 17.8 |
| 4/23/2015 | 11:11:50 | 52.82 | 52.02 | 334 | 1.59 | 1.10 | 18.3 |
| 4/23/2015 | 11:11:51 | 53.15 | 52.35 | 321 | 1.59 | 1.09 | 17.6 |
| 4/23/2015 | 11:11:52 | 53.48 | 52.68 | 309 | 1.59 | 1.06 | 16.9 |
| 4/23/2015 | 11:11:53 | 53.81 | 53.01 | 310 | 1.59 | 1.03 | 17.0 |
| 4/23/2015 | 11:11:54 | 54.13 | 53.33 | 315 | 1.60 | 1.02 | 17.2 |
| 4/23/2015 | 11:11:55 | 54.46 | 53.66 | 317 | 1.59 | 1.02 | 17.3 |
| 4/23/2015 | 11:11:56 | 54.79 | 53.99 | 307 | 1.59 | 0.99 | 16.8 |
| 4/23/2015 | 11:11:57 | 55.12 | 54.32 | 309 | 1.58 | 0.98 | 16.9 |
| 4/23/2015 | 11:11:59 | 55.45 | 54.65 | 308 | 1.59 | 0.98 | 16.9 |
| 4/23/2015 | 11:12:00 | 55.77 | 54.97 | 311 | 1.59 | 1.02 | 17.0 |
| 4/23/2015 | 11:12:01 | 56.10 | 55.30 | 309 | 1.57 | 0.97 | 16.9 |
| 4/23/2015 | 11:12:47 | 56.29 | 55.49 | 0 | 1.22 | 0.86 | 0.0 |

## H207 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/23/2015 11:07:52

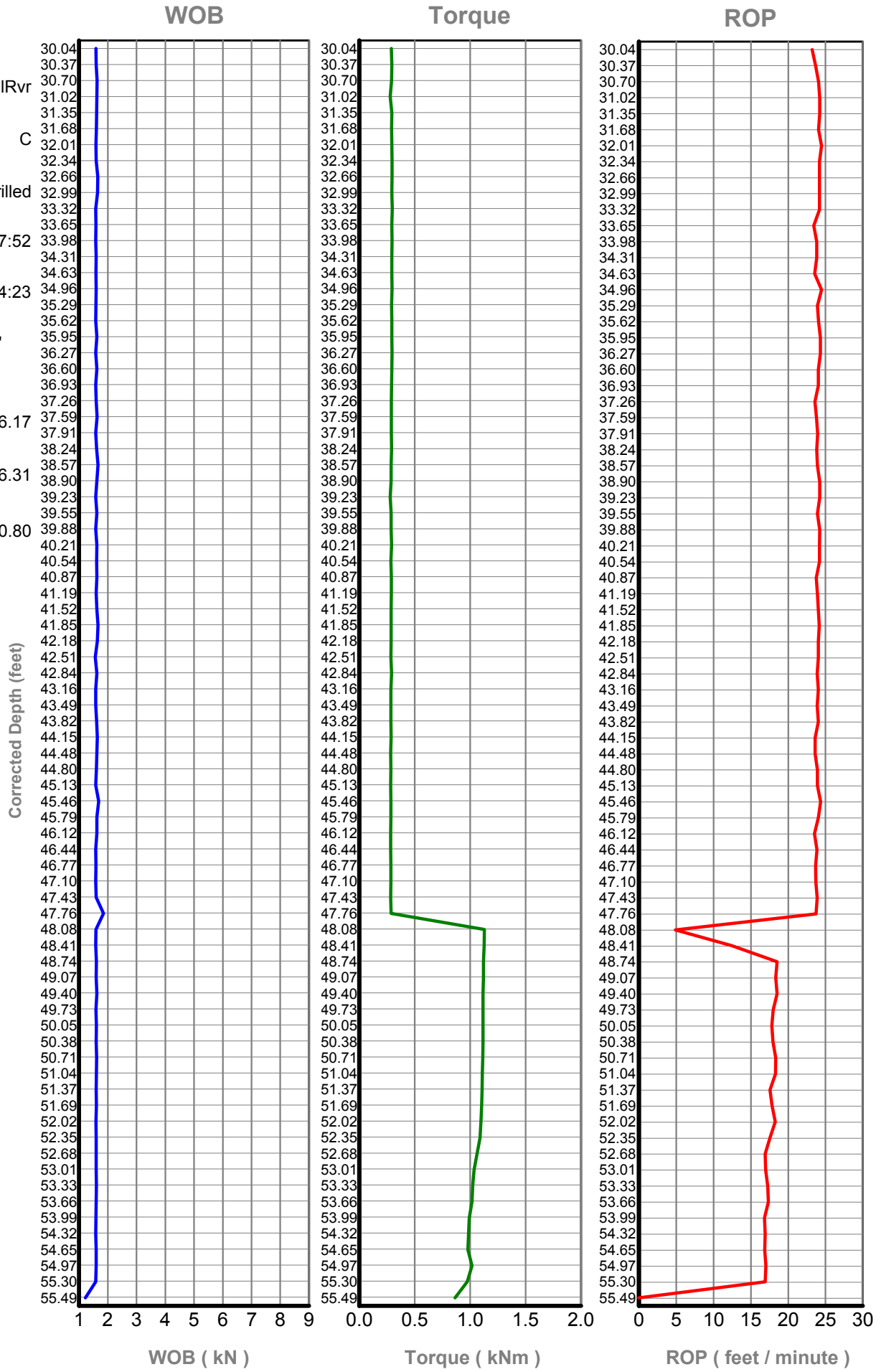
**End Date:**
4/23/2015 11:14:23

**Operator Note:**
'0.8 .9 C Auto Complete'

**Northing:**
367,426.17

**Easting:**
251,756.31

**Tide (feet):**
0.80



## Hole: H208 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:01:19 | 35.11 | 30.01 | 800 | 1.03 | 0.18 | 43.7 |
| 4/27/2015 10:01:19 | 35.43 | 30.33 | 800 | 1.04 | 0.18 | 43.8 |
| 4/27/2015 10:01:20 | 35.76 | 30.66 | 802 | 1.05 | 0.18 | 43.8 |
| 4/27/2015 10:01:20 | 36.09 | 30.99 | 789 | 1.05 | 0.18 | 43.2 |
| 4/27/2015 10:01:21 | 36.42 | 31.32 | 789 | 1.05 | 0.18 | 43.2 |
| 4/27/2015 10:01:21 | 36.75 | 31.65 | 789 | 1.03 | 0.18 | 43.2 |
| 4/27/2015 10:01:21 | 37.07 | 31.97 | 786 | 1.03 | 0.18 | 43.0 |
| 4/27/2015 10:01:22 | 37.40 | 32.30 | 789 | 1.03 | 0.19 | 43.1 |
| 4/27/2015 10:01:22 | 37.73 | 32.63 | 787 | 0.96 | 0.18 | 43.1 |
| 4/27/2015 10:01:23 | 38.06 | 32.96 | 798 | 1.05 | 0.18 | 43.6 |
| 4/27/2015 10:01:23 | 38.39 | 33.29 | 795 | 1.03 | 0.18 | 43.5 |
| 4/27/2015 10:01:24 | 38.71 | 33.61 | 795 | 1.03 | 0.18 | 43.5 |
| 4/27/2015 10:01:24 | 39.04 | 33.94 | 801 | 1.03 | 0.18 | 43.8 |
| 4/27/2015 10:01:25 | 39.37 | 34.27 | 795 | 1.04 | 0.18 | 43.5 |
| 4/27/2015 10:01:25 | 39.70 | 34.60 | 803 | 1.05 | 0.18 | 43.9 |
| 4/27/2015 10:01:26 | 40.03 | 34.93 | 792 | 1.05 | 0.18 | 43.3 |
| 4/27/2015 10:01:26 | 40.35 | 35.25 | 797 | 1.03 | 0.18 | 43.6 |
| 4/27/2015 10:01:27 | 40.68 | 35.58 | 786 | 1.04 | 0.18 | 43.0 |
| 4/27/2015 10:01:27 | 41.01 | 35.91 | 789 | 1.03 | 0.18 | 43.2 |
| 4/27/2015 10:01:28 | 41.34 | 36.24 | 789 | 1.03 | 0.18 | 43.2 |
| 4/27/2015 10:01:28 | 41.67 | 36.57 | 783 | 1.04 | 0.18 | 42.8 |
| 4/27/2015 10:01:28 | 41.99 | 36.89 | 786 | 1.02 | 0.18 | 43.0 |
| 4/27/2015 10:01:29 | 42.32 | 37.22 | 784 | 1.04 | 0.18 | 42.9 |
| 4/27/2015 10:01:29 | 42.65 | 37.55 | 792 | 1.03 | 0.18 | 43.3 |
| 4/27/2015 10:01:30 | 42.98 | 37.88 | 786 | 1.03 | 0.18 | 43.0 |
| 4/27/2015 10:01:30 | 43.31 | 38.21 | 782 | 1.04 | 0.18 | 42.8 |
| 4/27/2015 10:01:31 | 43.64 | 38.54 | 782 | 1.05 | 0.18 | 42.8 |
| 4/27/2015 10:01:31 | 43.96 | 38.86 | 782 | 1.05 | 0.18 | 42.8 |
| 4/27/2015 10:01:31 | 44.29 | 39.19 | 786 | 1.04 | 0.18 | 43.0 |
| 4/27/2015 10:01:32 | 44.62 | 39.52 | 783 | 1.04 | 0.18 | 42.8 |
| 4/27/2015 10:01:32 | 44.95 | 39.85 | 786 | 1.04 | 0.18 | 43.0 |
| 4/27/2015 10:01:33 | 45.28 | 40.18 | 786 | 1.03 | 0.18 | 43.0 |
| 4/27/2015 10:01:33 | 45.60 | 40.50 | 791 | 1.04 | 0.18 | 43.2 |
| 4/27/2015 10:01:34 | 45.93 | 40.83 | 781 | 1.03 | 0.18 | 42.7 |
| 4/27/2015 10:01:35 | 46.26 | 41.16 | 781 | 1.04 | 0.18 | 42.7 |
| 4/27/2015 10:01:35 | 46.59 | 41.49 | 781 | 1.04 | 0.18 | 42.7 |
| 4/27/2015 10:01:35 | 46.92 | 41.82 | 773 | 1.04 | 0.18 | 42.3 |
| 4/27/2015 10:01:36 | 47.24 | 42.14 | 778 | 1.05 | 0.18 | 42.5 |
| 4/27/2015 10:01:36 | 47.57 | 42.47 | 771 | 1.04 | 0.18 | 42.1 |
| 4/27/2015 10:01:37 | 47.90 | 42.80 | 762 | 1.04 | 0.18 | 41.7 |
| 4/27/2015 10:01:37 | 48.23 | 43.13 | 759 | 1.06 | 0.18 | 41.5 |
| 4/27/2015 10:01:38 | 48.56 | 43.46 | 759 | 1.04 | 0.18 | 41.5 |
| 4/27/2015 10:01:38 | 48.88 | 43.78 | 758 | 1.03 | 0.18 | 41.4 |
| 4/27/2015 10:01:39 | 49.21 | 44.11 | 744 | 1.03 | 0.18 | 40.7 |
| 4/27/2015 10:01:39 | 49.54 | 44.44 | 744 | 1.05 | 0.18 | 40.7 |
| 4/27/2015 10:01:40 | 49.87 | 44.77 | 746 | 1.02 | 0.18 | 40.8 |
| 4/27/2015 10:01:40 | 50.20 | 45.10 | 746 | 1.02 | 0.18 | 40.8 |
| 4/27/2015 10:01:40 | 50.53 | 45.43 | 751 | 1.03 | 0.18 | 41.0 |
| 4/27/2015 10:01:53 | 50.85 | 45.75 | 0 | 1.03 | 1.55 | 0.0 |
| 4/27/2015 10:01:56 | 51.18 | 46.08 | 87 | 1.09 | 1.33 | 4.8 |
| 4/27/2015 10:01:58 | 51.51 | 46.41 | 95 | 1.13 | 0.63 | 5.2 |
| 4/27/2015 10:02:00 | 51.84 | 46.74 | 206 | 1.01 | 0.79 | 11.3 |
| 4/27/2015 10:02:01 | 52.17 | 47.07 | 242 | 1.07 | 0.87 | 13.2 |
| 4/27/2015 10:02:02 | 52.49 | 47.39 | 209 | 1.02 | 0.92 | 11.4 |
| 4/27/2015 10:02:03 | 52.82 | 47.72 | 262 | 1.02 | 0.89 | 14.3 |
| 4/27/2015 10:02:04 | 53.15 | 48.05 | 312 | 1.03 | 0.86 | 17.0 |
| 4/27/2015 10:02:05 | 53.48 | 48.38 | 281 | 1.07 | 0.83 | 15.3 |
| 4/27/2015 10:02:07 | 53.81 | 48.71 | 315 | 1.02 | 0.83 | 17.2 |
| 4/27/2015 10:02:07 | 54.13 | 49.03 | 362 | 1.02 | 0.89 | 19.8 |
| 4/27/2015 10:02:08 | 54.46 | 49.36 | 383 | 1.00 | 0.82 | 21.0 |
| 4/27/2015 10:02:09 | 54.79 | 49.69 | 445 | 1.03 | 1.07 | 24.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:02:10 | 55.12 | 50.02 | 375 | 1.11 | 1.27 | 20.5 |
| 4/27/2015 | 10:02:12 | 55.45 | 50.35 | 198 | 1.06 | 1.37 | 10.8 |
| 4/27/2015 | 10:02:14 | 55.77 | 50.67 | 168 | 1.07 | 1.01 | 9.2 |
| 4/27/2015 | 10:02:15 | 56.10 | 51.00 | 211 | 0.98 | 0.84 | 11.5 |
| 4/27/2015 | 10:02:16 | 56.43 | 51.33 | 353 | 1.13 | 0.79 | 19.3 |
| 4/27/2015 | 10:02:17 | 56.76 | 51.66 | 404 | 0.99 | 0.73 | 22.1 |
| 4/27/2015 | 10:02:18 | 57.09 | 51.99 | 454 | 1.03 | 0.72 | 24.8 |
| 4/27/2015 | 10:02:18 | 57.41 | 52.31 | 439 | 1.03 | 0.72 | 24.0 |
| 4/27/2015 | 10:02:19 | 57.74 | 52.64 | 425 | 1.00 | 0.74 | 23.3 |
| 4/27/2015 | 10:02:20 | 58.07 | 52.97 | 428 | 1.03 | 0.73 | 23.4 |
| 4/27/2015 | 10:02:21 | 58.40 | 53.30 | 425 | 0.98 | 0.73 | 23.2 |
| 4/27/2015 | 10:02:22 | 58.73 | 53.63 | 423 | 1.12 | 0.72 | 23.1 |
| 4/27/2015 | 10:02:23 | 59.06 | 53.96 | 409 | 1.11 | 0.84 | 22.3 |
| 4/27/2015 | 10:02:24 | 59.38 | 54.28 | 399 | 1.05 | 0.87 | 21.8 |
| 4/27/2015 | 10:02:26 | 59.71 | 54.61 | 268 | 1.01 | 0.86 | 14.6 |
| 4/27/2015 | 10:02:27 | 60.04 | 54.94 | 261 | 1.00 | 0.78 | 14.3 |
| 4/27/2015 | 10:02:28 | 60.37 | 55.27 | 325 | 1.09 | 0.82 | 17.8 |
| 4/27/2015 | 10:02:28 | 60.70 | 55.60 | 381 | 0.98 | 0.73 | 20.8 |
| 4/27/2015 | 10:02:29 | 60.99 | 55.89 | 424 | 0.39 | 0.79 | 23.2 |

## H208 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:59:16

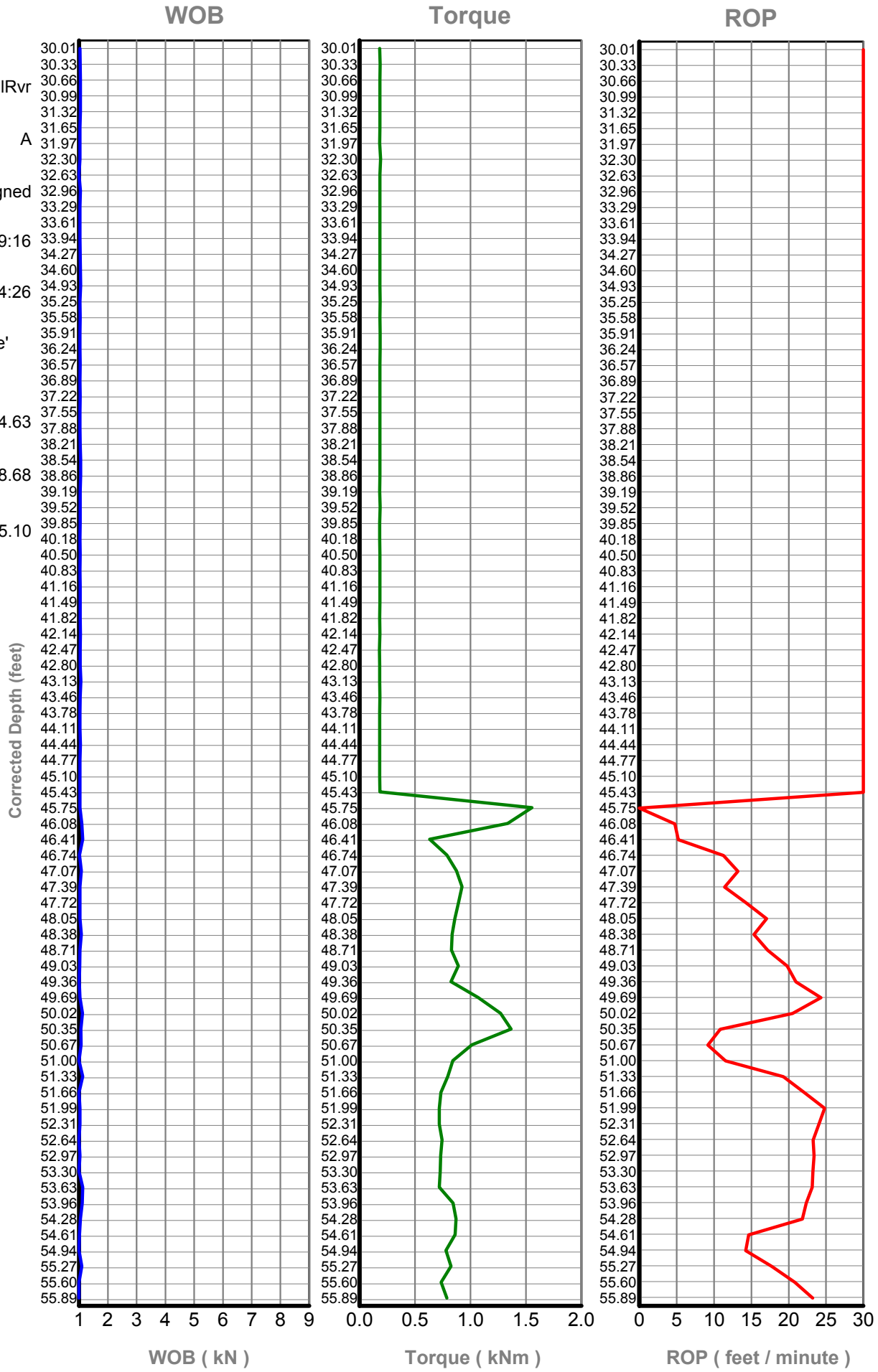
**End Date:**
4/27/2015 10:04:26

**Operator Note:**
'5.1 5.2 a Auto Complete'

**Northing:**
365,304.63

**Easting:**
249,228.68

**Tide (feet):**
5.10



## Hole: H209 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:00:32 | 35.11 | 30.01 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 10:00:33 | 35.43 | 30.33 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 10:00:33 | 35.76 | 30.66 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 10:00:33 | 36.09 | 30.99 | 1,089 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:00:34 | 36.42 | 31.32 | 1,089 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:00:34 | 36.75 | 31.65 | 1,089 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:00:34 | 37.07 | 31.97 | 1,085 | 0.29 | 0.31 | 59.4 |
| 4/27/2015 10:00:35 | 37.40 | 32.30 | 1,085 | 0.29 | 0.31 | 59.4 |
| 4/27/2015 10:00:35 | 37.73 | 32.63 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 10:00:35 | 38.06 | 32.96 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 10:00:36 | 38.39 | 33.29 | 1,080 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 10:00:36 | 38.71 | 33.61 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 10:00:37 | 39.04 | 33.94 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/27/2015 10:00:37 | 39.37 | 34.27 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/27/2015 10:00:37 | 39.70 | 34.60 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/27/2015 10:00:38 | 40.03 | 34.93 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/27/2015 10:00:38 | 40.35 | 35.25 | 1,095 | 0.29 | 0.31 | 59.9 |
| 4/27/2015 10:00:38 | 40.68 | 35.58 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 10:00:39 | 41.01 | 35.91 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 10:00:39 | 41.34 | 36.24 | 1,100 | 0.29 | 0.31 | 60.1 |
| 4/27/2015 10:00:39 | 41.67 | 36.57 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 10:00:40 | 41.99 | 36.89 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 10:00:40 | 42.32 | 37.22 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/27/2015 10:00:40 | 42.65 | 37.55 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/27/2015 10:00:40 | 42.98 | 37.88 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/27/2015 10:00:41 | 43.31 | 38.21 | 1,079 | 0.29 | 0.33 | 59.0 |
| 4/27/2015 10:00:41 | 43.64 | 38.54 | 1,079 | 0.29 | 0.33 | 59.0 |
| 4/27/2015 10:00:41 | 43.96 | 38.86 | 1,086 | 0.28 | 0.31 | 59.4 |
| 4/27/2015 10:00:42 | 44.29 | 39.19 | 1,089 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:00:42 | 44.62 | 39.52 | 1,089 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:00:42 | 44.95 | 39.85 | 1,109 | 0.29 | 0.31 | 60.6 |
| 4/27/2015 10:00:43 | 45.28 | 40.18 | 1,093 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 10:00:43 | 45.60 | 40.50 | 1,093 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 10:00:43 | 45.93 | 40.83 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 10:00:44 | 46.26 | 41.16 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/27/2015 10:00:44 | 46.59 | 41.49 | 1,078 | 0.29 | 0.32 | 59.0 |
| 4/27/2015 10:00:44 | 46.92 | 41.82 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 10:00:45 | 47.24 | 42.14 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/27/2015 10:00:45 | 47.57 | 42.47 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/27/2015 10:00:45 | 47.90 | 42.80 | 1,047 | 0.28 | 0.32 | 57.3 |
| 4/27/2015 10:00:46 | 48.23 | 43.13 | 1,047 | 0.28 | 0.32 | 57.3 |
| 4/27/2015 10:00:46 | 48.56 | 43.46 | 1,047 | 0.29 | 0.32 | 57.3 |
| 4/27/2015 10:00:46 | 48.88 | 43.78 | 1,062 | 0.28 | 0.31 | 58.1 |
| 4/27/2015 10:00:47 | 49.21 | 44.11 | 1,062 | 0.28 | 0.31 | 58.1 |
| 4/27/2015 10:00:47 | 49.54 | 44.44 | 1,066 | 0.29 | 0.32 | 58.3 |
| 4/27/2015 10:00:48 | 49.87 | 44.77 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/27/2015 10:00:48 | 50.20 | 45.10 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/27/2015 10:00:48 | 50.53 | 45.43 | 1,060 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 10:00:49 | 50.85 | 45.75 | 1,060 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 10:00:49 | 51.18 | 46.08 | 1,071 | 0.27 | 0.34 | 58.5 |
| 4/27/2015 10:00:53 | 51.51 | 46.41 | 0 | 3.18 | 0.35 | 0.0 |
| 4/27/2015 10:00:55 | 51.84 | 46.74 | 137 | 5.42 | 0.40 | 7.5 |
| 4/27/2015 10:00:58 | 52.17 | 47.07 | 107 | 3.79 | 0.37 | 5.9 |
| 4/27/2015 10:00:59 | 52.49 | 47.39 | 246 | 2.99 | 0.37 | 13.5 |
| 4/27/2015 10:00:59 | 52.82 | 47.72 | 304 | 2.82 | 0.37 | 16.6 |
| 4/27/2015 10:01:04 | 53.15 | 48.05 | 100 | 2.80 | 0.37 | 5.5 |
| 4/27/2015 10:01:05 | 53.48 | 48.38 | 174 | 2.94 | 0.37 | 9.5 |
| 4/27/2015 10:01:06 | 53.81 | 48.71 | 335 | 2.63 | 0.37 | 18.3 |
| 4/27/2015 10:01:11 | 54.13 | 49.03 | 0 | 2.82 | 0.37 | 0.0 |
| 4/27/2015 10:01:12 | 54.46 | 49.36 | 154 | 2.81 | 0.37 | 8.4 |
| 4/27/2015 10:01:21 | 54.79 | 49.69 | 0 | 3.29 | 0.37 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:01:22 | 55.12 | 50.02 | 90 | 2.83 | 0.38 | 4.9 |
| 4/27/2015 | 10:01:23 | 55.45 | 50.35 | 190 | 2.80 | 0.37 | 10.4 |
| 4/27/2015 | 10:01:24 | 55.77 | 50.67 | 263 | 2.78 | 0.37 | 14.4 |
| 4/27/2015 | 10:01:25 | 56.10 | 51.00 | 318 | 3.28 | 0.39 | 17.4 |
| 4/27/2015 | 10:01:34 | 56.43 | 51.33 | 70 | 3.00 | 0.40 | 3.8 |
| 4/27/2015 | 10:01:43 | 56.76 | 51.66 | 33 | 3.54 | 0.39 | 1.8 |
| 4/27/2015 | 10:01:45 | 57.09 | 51.99 | 112 | 3.16 | 0.39 | 6.1 |
| 4/27/2015 | 10:01:48 | 57.41 | 52.31 | 128 | 3.14 | 0.38 | 7.0 |
| 4/27/2015 | 10:01:51 | 57.74 | 52.64 | 146 | 2.80 | 0.40 | 8.0 |
| 4/27/2015 | 10:01:56 | 58.07 | 52.97 | 76 | 3.35 | 0.40 | 4.2 |
| 4/27/2015 | 10:02:01 | 58.40 | 53.30 | 67 | 3.15 | 0.40 | 3.7 |
| 4/27/2015 | 10:02:05 | 58.73 | 53.63 | 94 | 3.18 | 0.40 | 5.2 |
| 4/27/2015 | 10:02:10 | 59.06 | 53.96 | 79 | 3.52 | 0.40 | 4.3 |
| 4/27/2015 | 10:02:14 | 59.38 | 54.28 | 84 | 2.94 | 0.39 | 4.6 |
| 4/27/2015 | 10:02:20 | 59.71 | 54.61 | 70 | 3.21 | 0.39 | 3.8 |
| 4/27/2015 | 10:02:24 | 60.04 | 54.94 | 71 | 3.75 | 0.40 | 3.9 |
| 4/27/2015 | 10:02:27 | 60.19 | 55.09 | 68 | 5.15 | 0.40 | 3.7 |

## H209 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:58:47

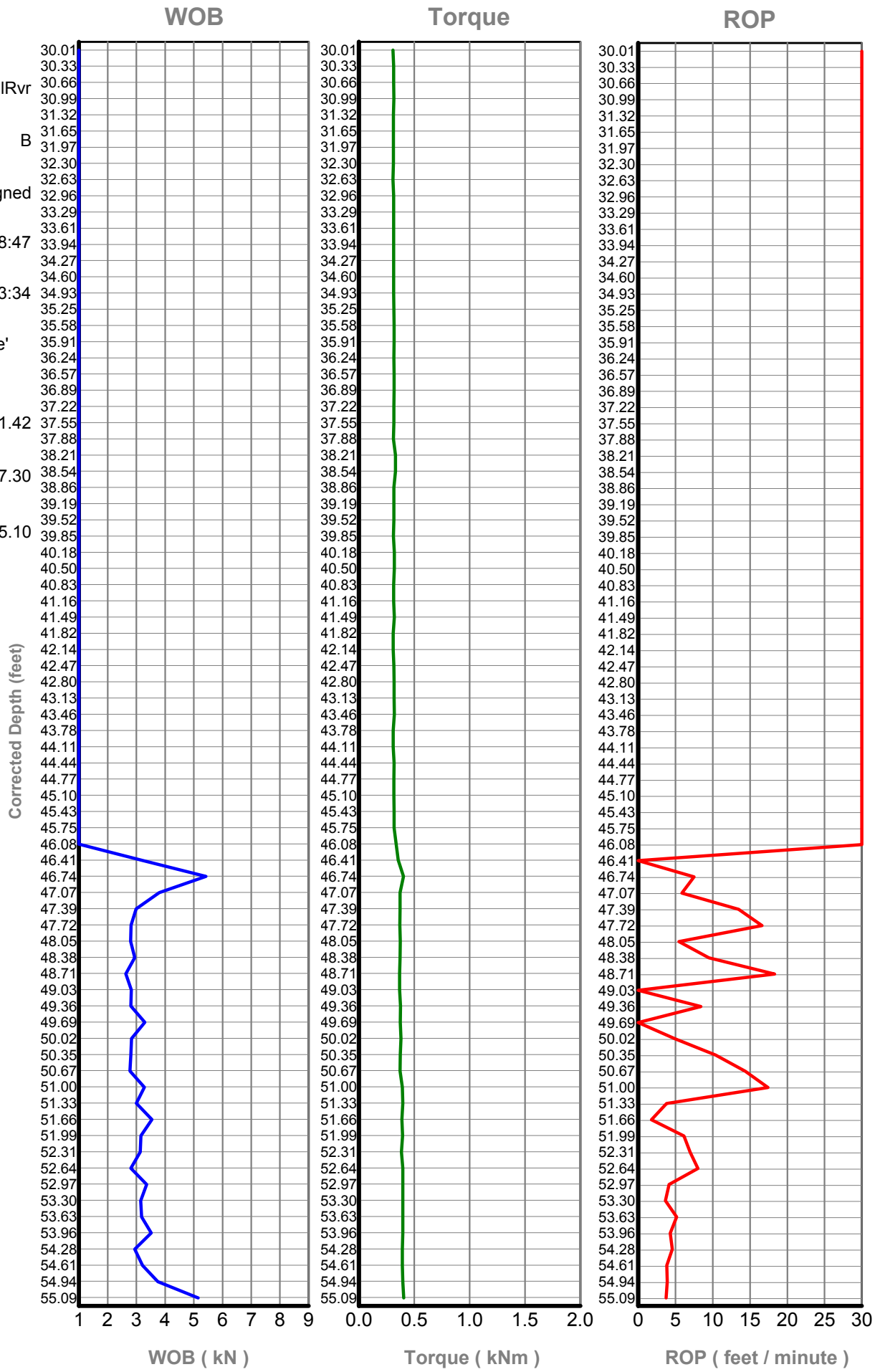
**End Date:**
4/27/2015 10:03:34

**Operator Note:**
'5.1 5.2 b Auto Complete'

**Northing:**
365,351.42

**Easting:**
249,287.30

**Tide (feet):**
5.10



## Hole: H21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 23:55:35 | 31.82 | 30.02 | 572 | 1.78 | 0.15 | 31.3 |
| 4/25/2015 23:55:36 | 32.15 | 30.35 | 569 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 23:55:36 | 32.48 | 30.68 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 23:55:37 | 32.81 | 31.01 | 572 | 1.78 | 0.15 | 31.3 |
| 4/25/2015 23:55:38 | 33.14 | 31.34 | 570 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 23:55:38 | 33.46 | 31.66 | 575 | 1.79 | 0.15 | 31.5 |
| 4/25/2015 23:55:39 | 33.79 | 31.99 | 572 | 1.79 | 0.15 | 31.3 |
| 4/25/2015 23:55:39 | 34.12 | 32.32 | 572 | 1.76 | 0.16 | 31.3 |
| 4/25/2015 23:55:40 | 34.45 | 32.65 | 575 | 1.78 | 0.15 | 31.5 |
| 4/25/2015 23:55:41 | 34.78 | 32.98 | 569 | 1.76 | 0.16 | 31.1 |
| 4/25/2015 23:55:41 | 35.11 | 33.31 | 572 | 1.79 | 0.15 | 31.3 |
| 4/25/2015 23:55:42 | 35.43 | 33.63 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 23:55:42 | 35.76 | 33.96 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 23:55:43 | 36.09 | 34.29 | 569 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 23:55:44 | 36.42 | 34.62 | 566 | 1.79 | 0.16 | 30.9 |
| 4/25/2015 23:55:45 | 36.75 | 34.95 | 557 | 1.79 | 0.16 | 30.5 |
| 4/25/2015 23:55:45 | 37.07 | 35.27 | 557 | 1.81 | 0.16 | 30.5 |
| 4/25/2015 23:55:46 | 37.40 | 35.60 | 565 | 1.81 | 0.16 | 30.9 |
| 4/25/2015 23:55:47 | 37.73 | 35.93 | 564 | 1.80 | 0.16 | 30.8 |
| 4/25/2015 23:55:47 | 38.06 | 36.26 | 568 | 1.79 | 0.15 | 31.1 |
| 4/25/2015 23:55:48 | 38.39 | 36.59 | 577 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 23:55:48 | 38.71 | 36.91 | 569 | 1.76 | 0.16 | 31.1 |
| 4/25/2015 23:55:49 | 39.04 | 37.24 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 23:55:50 | 39.37 | 37.57 | 567 | 1.79 | 0.16 | 31.0 |
| 4/25/2015 23:55:50 | 39.70 | 37.90 | 569 | 1.79 | 0.16 | 31.1 |
| 4/25/2015 23:55:51 | 40.03 | 38.23 | 573 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 23:55:51 | 40.35 | 38.55 | 570 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 23:55:52 | 40.68 | 38.88 | 569 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 23:55:53 | 41.01 | 39.21 | 569 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 23:55:53 | 41.34 | 39.54 | 566 | 1.79 | 0.16 | 30.9 |
| 4/25/2015 23:55:54 | 41.67 | 39.87 | 569 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 23:55:55 | 41.99 | 40.19 | 569 | 1.76 | 0.16 | 31.1 |
| 4/25/2015 23:55:56 | 42.32 | 40.52 | 560 | 1.79 | 0.16 | 30.6 |
| 4/25/2015 23:55:56 | 42.65 | 40.85 | 566 | 1.79 | 0.16 | 30.9 |
| 4/25/2015 23:55:57 | 42.98 | 41.18 | 560 | 1.79 | 0.16 | 30.6 |
| 4/25/2015 23:55:57 | 43.31 | 41.51 | 562 | 1.81 | 0.16 | 30.7 |
| 4/25/2015 23:55:58 | 43.64 | 41.84 | 566 | 1.79 | 0.15 | 30.9 |
| 4/25/2015 23:55:59 | 43.96 | 42.16 | 563 | 1.80 | 0.16 | 30.8 |
| 4/25/2015 23:55:59 | 44.29 | 42.49 | 573 | 1.78 | 0.16 | 31.3 |
| 4/25/2015 23:56:00 | 44.62 | 42.82 | 564 | 1.81 | 0.16 | 30.8 |
| 4/25/2015 23:56:34 | 44.95 | 43.15 | 87 | 1.79 | 1.19 | 4.7 |
| 4/25/2015 23:56:35 | 45.28 | 43.48 | 132 | 1.72 | 1.18 | 7.2 |
| 4/25/2015 23:56:46 | 45.60 | 43.80 | 40 | 1.79 | 1.21 | 2.2 |
| 4/25/2015 23:56:49 | 45.93 | 44.13 | 156 | 1.78 | 1.21 | 8.5 |
| 4/25/2015 23:56:50 | 46.26 | 44.46 | 179 | 1.75 | 1.19 | 9.8 |
| 4/25/2015 23:57:09 | 46.59 | 44.79 | 46 | 1.79 | 1.31 | 2.5 |
| 4/25/2015 23:57:12 | 46.92 | 45.12 | 136 | 1.76 | 1.44 | 7.4 |
| 4/25/2015 23:57:13 | 47.24 | 45.44 | 194 | 1.76 | 1.09 | 10.6 |
| 4/25/2015 23:57:37 | 47.57 | 45.77 | 100 | 1.76 | 1.11 | 5.5 |
| 4/25/2015 23:57:39 | 47.90 | 46.10 | 151 | 1.74 | 1.04 | 8.2 |
| 4/25/2015 23:57:40 | 48.23 | 46.43 | 261 | 1.73 | 1.03 | 14.3 |
| 4/25/2015 23:57:42 | 48.56 | 46.76 | 280 | 1.69 | 1.01 | 15.3 |
| 4/25/2015 23:57:51 | 48.88 | 47.08 | 29 | 1.75 | 1.00 | 1.6 |
| 4/25/2015 23:57:58 | 49.21 | 47.41 | 68 | 1.76 | 1.11 | 3.7 |
| 4/25/2015 23:58:00 | 49.54 | 47.74 | 196 | 1.74 | 1.08 | 10.7 |
| 4/25/2015 23:58:02 | 49.87 | 48.07 | 211 | 1.75 | 1.01 | 11.6 |
| 4/25/2015 23:58:10 | 50.20 | 48.40 | 0 | 1.74 | 1.09 | 0.0 |
| 4/25/2015 23:58:11 | 50.53 | 48.73 | 103 | 1.74 | 1.08 | 5.6 |
| 4/25/2015 23:58:14 | 50.85 | 49.05 | 94 | 1.74 | 1.05 | 5.1 |
| 4/25/2015 23:58:16 | 51.18 | 49.38 | 238 | 1.78 | 1.12 | 13.0 |
| 4/25/2015 23:58:56 | 51.51 | 49.71 | 0 | 1.79 | 1.02 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 23:58:57 | 51.84 | 50.04 | 132 | 1.76 | 1.09 | 7.2 |
| 4/25/2015 | 23:58:59 | 52.17 | 50.37 | 257 | 1.74 | 1.09 | 14.1 |
| 4/25/2015 | 23:59:00 | 52.49 | 50.69 | 269 | 1.74 | 1.06 | 14.7 |
| 4/25/2015 | 23:59:24 | 52.82 | 51.02 | 12 | 1.76 | 1.06 | 0.7 |
| 4/25/2015 | 23:59:26 | 53.15 | 51.35 | 124 | 1.73 | 1.03 | 6.8 |
| 4/25/2015 | 23:59:28 | 53.48 | 51.68 | 163 | 1.76 | 1.13 | 8.9 |
| 4/25/2015 | 23:59:32 | 53.81 | 52.01 | 34 | 1.74 | 1.12 | 1.9 |
| 4/25/2015 | 23:59:35 | 54.13 | 52.33 | 208 | 1.75 | 1.10 | 11.4 |
| 4/25/2015 | 23:59:36 | 54.46 | 52.66 | 199 | 1.76 | 1.11 | 10.9 |
| 4/25/2015 | 23:59:48 | 54.79 | 52.99 | 0 | 1.79 | 0.95 | 0.0 |
| 4/25/2015 | 23:59:49 | 55.12 | 53.32 | 113 | 1.76 | 1.12 | 6.2 |
| 4/25/2015 | 23:59:51 | 55.45 | 53.65 | 191 | 1.76 | 1.12 | 10.4 |
| 4/25/2015 | 23:59:54 | 55.77 | 53.97 | 150 | 1.76 | 1.12 | 8.2 |
| 4/25/2015 | 23:59:57 | 56.10 | 54.30 | 136 | 1.77 | 1.11 | 7.4 |
| 4/25/2015 | 23:59:59 | 56.43 | 54.63 | 148 | 1.76 | 1.10 | 8.1 |
| 4/26/2015 | 0:00:02 | 56.76 | 54.96 | 133 | 1.78 | 1.11 | 7.3 |
| 4/26/2015 | 0:00:04 | 57.05 | 55.25 | 105 | 1.77 | 1.11 | 5.7 |

## H21 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 23:53:41

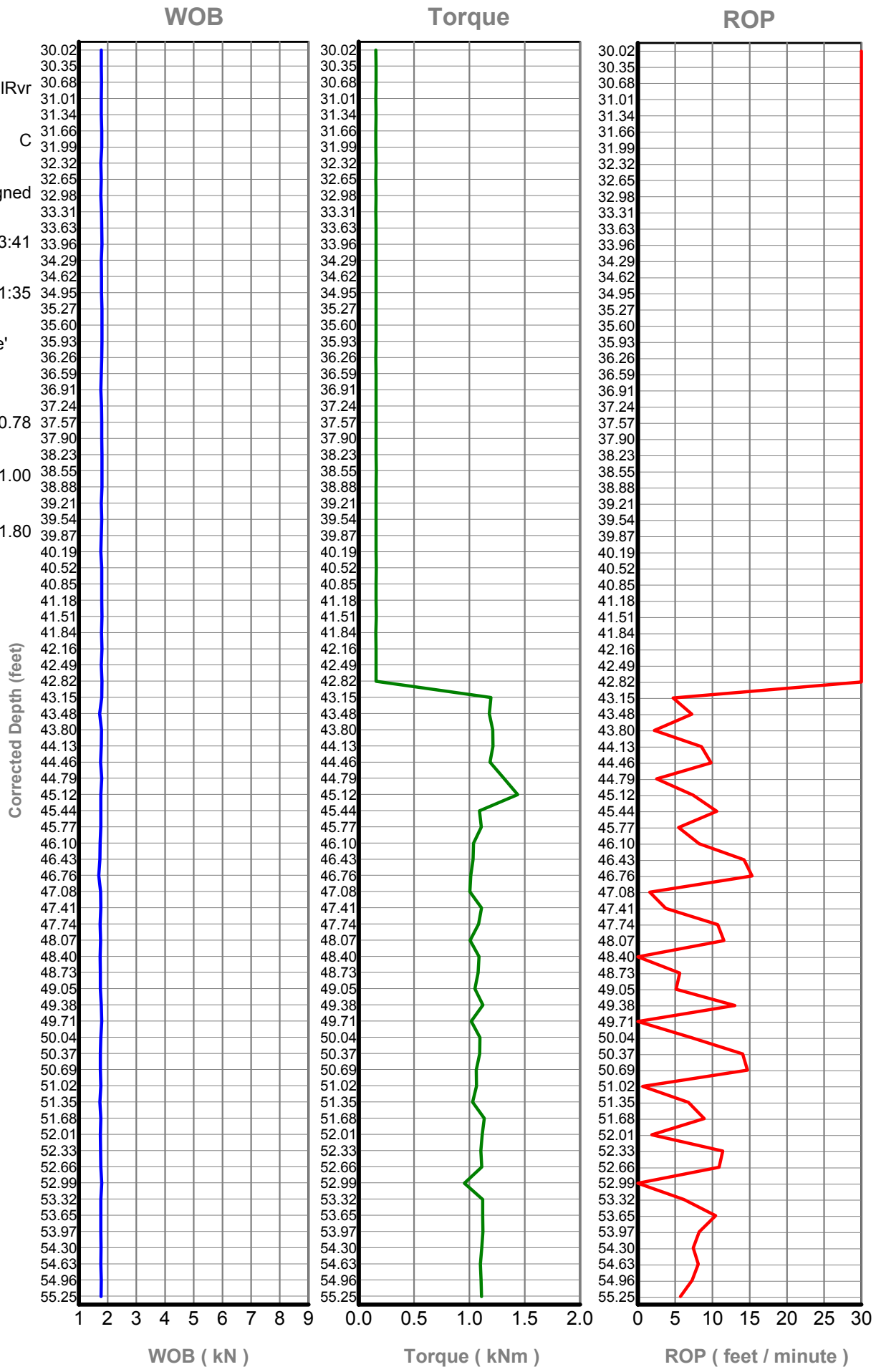
**End Date:**
4/26/2015 0:01:35

**Operator Note:**
'1.8 2.0 c Auto Complete'

**Northing:**
366,530.78

**Easting:**
250,161.00

**Tide (feet):**
1.80



## Hole: H210 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:00:33 | 35.11 | 30.01 | 1,140 | 1.70 | 0.28 | 62.4 |
| 4/27/2015 10:00:34 | 35.43 | 30.33 | 1,140 | 1.70 | 0.28 | 62.4 |
| 4/27/2015 10:00:34 | 35.76 | 30.66 | 1,136 | 1.71 | 0.28 | 62.1 |
| 4/27/2015 10:00:34 | 36.09 | 30.99 | 1,123 | 1.74 | 0.28 | 61.4 |
| 4/27/2015 10:00:35 | 36.42 | 31.32 | 1,123 | 1.74 | 0.28 | 61.4 |
| 4/27/2015 10:00:35 | 36.75 | 31.65 | 1,111 | 1.87 | 0.23 | 60.7 |
| 4/27/2015 10:00:35 | 37.07 | 31.97 | 1,111 | 1.87 | 0.23 | 60.7 |
| 4/27/2015 10:00:35 | 37.40 | 32.30 | 1,119 | 1.73 | 0.28 | 61.2 |
| 4/27/2015 10:00:36 | 37.73 | 32.63 | 1,119 | 1.75 | 0.28 | 61.2 |
| 4/27/2015 10:00:36 | 38.06 | 32.96 | 1,119 | 1.75 | 0.28 | 61.2 |
| 4/27/2015 10:00:36 | 38.39 | 33.29 | 1,124 | 1.71 | 0.29 | 61.4 |
| 4/27/2015 10:00:37 | 38.71 | 33.61 | 1,124 | 1.71 | 0.29 | 61.4 |
| 4/27/2015 10:00:37 | 39.04 | 33.94 | 1,131 | 1.72 | 0.29 | 61.8 |
| 4/27/2015 10:00:37 | 39.37 | 34.27 | 1,143 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 10:00:38 | 39.70 | 34.60 | 1,143 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 10:00:38 | 40.03 | 34.93 | 1,149 | 1.76 | 0.29 | 62.8 |
| 4/27/2015 10:00:38 | 40.35 | 35.25 | 1,149 | 1.76 | 0.29 | 62.8 |
| 4/27/2015 10:00:39 | 40.68 | 35.58 | 1,152 | 1.73 | 0.29 | 63.0 |
| 4/27/2015 10:00:39 | 41.01 | 35.91 | 1,150 | 1.72 | 0.29 | 62.9 |
| 4/27/2015 10:00:40 | 41.34 | 36.24 | 1,150 | 1.72 | 0.29 | 62.9 |
| 4/27/2015 10:00:40 | 41.67 | 36.57 | 1,140 | 1.72 | 0.29 | 62.3 |
| 4/27/2015 10:00:40 | 41.99 | 36.89 | 1,140 | 1.72 | 0.29 | 62.3 |
| 4/27/2015 10:00:40 | 42.32 | 37.22 | 1,119 | 1.74 | 0.29 | 61.2 |
| 4/27/2015 10:00:41 | 42.65 | 37.55 | 1,139 | 1.72 | 0.29 | 62.3 |
| 4/27/2015 10:00:41 | 42.98 | 37.88 | 1,139 | 1.72 | 0.29 | 62.3 |
| 4/27/2015 10:00:41 | 43.31 | 38.21 | 1,139 | 1.73 | 0.29 | 62.3 |
| 4/27/2015 10:00:42 | 43.64 | 38.54 | 1,139 | 1.73 | 0.29 | 62.3 |
| 4/27/2015 10:00:42 | 43.96 | 38.86 | 1,129 | 1.64 | 0.29 | 61.8 |
| 4/27/2015 10:00:42 | 44.29 | 39.19 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:00:43 | 44.62 | 39.52 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:00:43 | 44.95 | 39.85 | 1,154 | 1.72 | 0.29 | 63.1 |
| 4/27/2015 10:00:43 | 45.28 | 40.18 | 1,154 | 1.72 | 0.29 | 63.1 |
| 4/27/2015 10:00:43 | 45.60 | 40.50 | 1,150 | 1.72 | 0.29 | 62.9 |
| 4/27/2015 10:00:44 | 45.93 | 40.83 | 1,133 | 1.74 | 0.29 | 62.0 |
| 4/27/2015 10:00:44 | 46.26 | 41.16 | 1,133 | 1.74 | 0.29 | 62.0 |
| 4/27/2015 10:00:44 | 46.59 | 41.49 | 1,137 | 1.74 | 0.29 | 62.2 |
| 4/27/2015 10:00:45 | 46.92 | 41.82 | 1,130 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 10:00:45 | 47.24 | 42.14 | 1,130 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 10:00:45 | 47.57 | 42.47 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:00:46 | 47.90 | 42.80 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:00:46 | 48.23 | 43.13 | 1,130 | 1.72 | 0.29 | 61.8 |
| 4/27/2015 10:00:46 | 48.56 | 43.46 | 1,127 | 1.75 | 0.29 | 61.6 |
| 4/27/2015 10:00:47 | 48.88 | 43.78 | 1,127 | 1.75 | 0.29 | 61.6 |
| 4/27/2015 10:00:47 | 49.21 | 44.11 | 1,120 | 1.74 | 0.29 | 61.3 |
| 4/27/2015 10:00:47 | 49.54 | 44.44 | 1,120 | 1.74 | 0.29 | 61.3 |
| 4/27/2015 10:00:47 | 49.87 | 44.77 | 1,130 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 10:00:48 | 50.20 | 45.10 | 1,110 | 1.73 | 0.29 | 60.7 |
| 4/27/2015 10:00:48 | 50.53 | 45.43 | 1,110 | 1.73 | 0.29 | 60.7 |
| 4/27/2015 10:00:48 | 50.85 | 45.75 | 1,110 | 1.74 | 0.29 | 60.7 |
| 4/27/2015 10:00:49 | 51.18 | 46.08 | 1,110 | 1.74 | 0.29 | 60.7 |
| 4/27/2015 10:00:49 | 51.51 | 46.41 | 1,114 | 1.78 | 0.29 | 60.9 |
| 4/27/2015 10:00:57 | 51.84 | 46.74 | 0 | 1.76 | 0.95 | 0.0 |
| 4/27/2015 10:00:58 | 52.17 | 47.07 | 71 | 1.72 | 1.15 | 3.9 |
| 4/27/2015 10:01:08 | 52.49 | 47.39 | 28 | 1.80 | 1.15 | 1.6 |
| 4/27/2015 10:01:22 | 52.82 | 47.72 | 29 | 1.76 | 1.14 | 1.6 |
| 4/27/2015 10:01:33 | 53.15 | 48.05 | 34 | 1.79 | 1.19 | 1.9 |
| 4/27/2015 10:01:44 | 53.48 | 48.38 | 37 | 1.77 | 1.15 | 2.0 |
| 4/27/2015 10:01:52 | 53.73 | 48.63 | 35 | 1.78 | 1.24 | 1.9 |

## H210 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:59:04

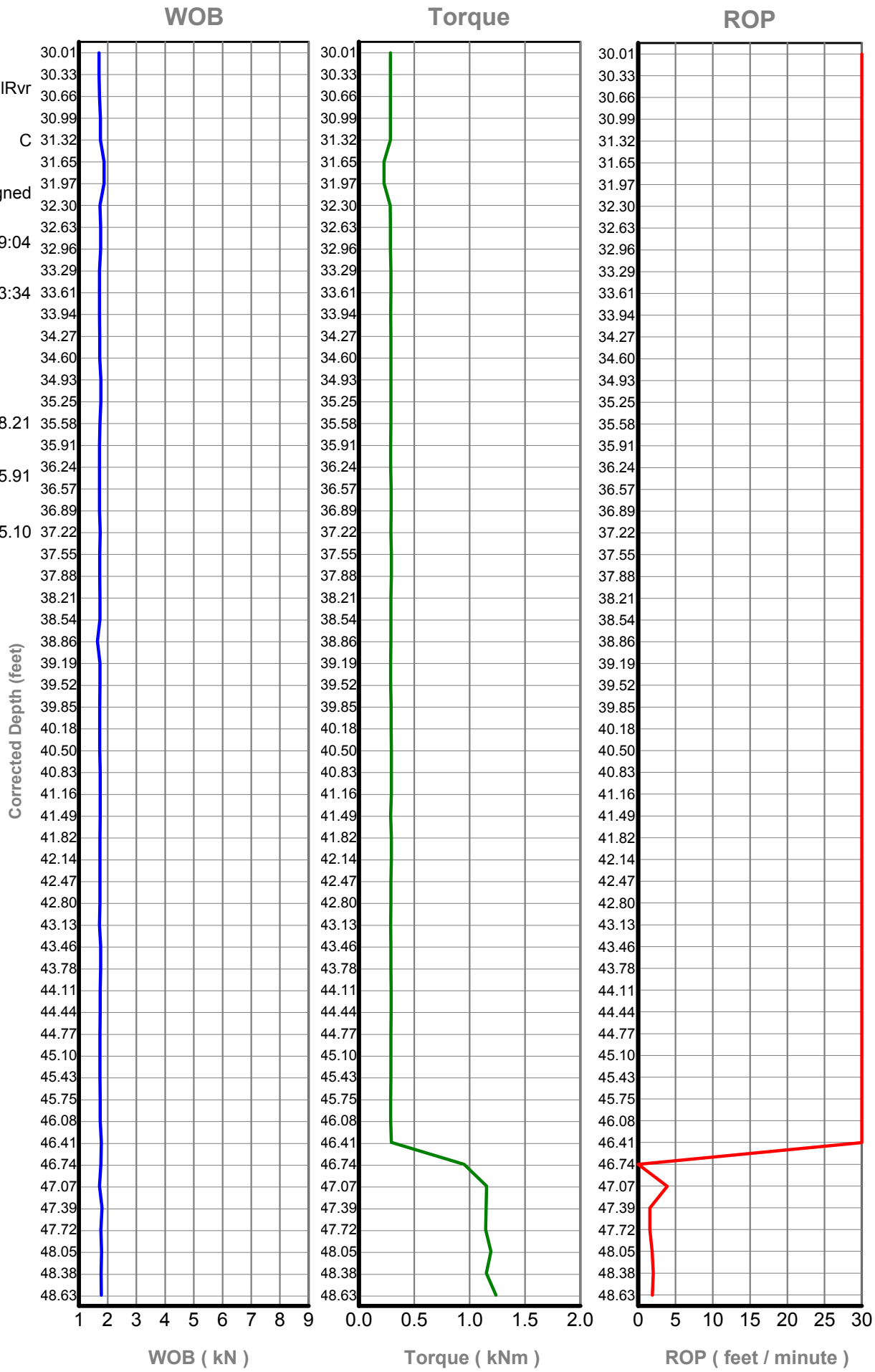
**End Date:**
4/27/2015 10:03:34

**Operator Note:**
'5.1 5.2 C Auto Complete'

**Northing:**
365,398.21

**Easting:**
249,345.91

**Tide (feet):**
5.10



## Hole: H211 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:47:43 | 32.48 | 30.28 | 987 | 0.33 | 0.32 | 54.0 |
| 4/27/2015 3:47:43 | 32.81 | 30.61 | 987 | 0.33 | 0.32 | 54.0 |
| 4/27/2015 3:47:43 | 33.14 | 30.94 | 990 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 3:47:44 | 33.46 | 31.26 | 984 | 0.34 | 0.32 | 53.8 |
| 4/27/2015 3:47:45 | 33.79 | 31.59 | 984 | 0.34 | 0.32 | 53.8 |
| 4/27/2015 3:47:45 | 34.12 | 31.92 | 1,000 | 0.34 | 0.32 | 54.7 |
| 4/27/2015 3:47:45 | 34.45 | 32.25 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 3:47:46 | 34.78 | 32.58 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 3:47:46 | 35.11 | 32.91 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 3:47:46 | 35.43 | 33.23 | 978 | 0.35 | 0.32 | 53.5 |
| 4/27/2015 3:47:47 | 35.76 | 33.56 | 978 | 0.35 | 0.33 | 53.5 |
| 4/27/2015 3:47:47 | 36.09 | 33.89 | 978 | 0.35 | 0.33 | 53.5 |
| 4/27/2015 3:47:47 | 36.42 | 34.22 | 985 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 3:47:48 | 36.75 | 34.55 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 3:47:48 | 37.07 | 34.87 | 995 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 3:47:48 | 37.40 | 35.20 | 980 | 0.34 | 0.30 | 53.6 |
| 4/27/2015 3:47:49 | 37.73 | 35.53 | 979 | 0.40 | 0.33 | 53.5 |
| 4/27/2015 3:47:49 | 38.06 | 35.86 | 979 | 0.40 | 0.33 | 53.5 |
| 4/27/2015 3:47:49 | 38.39 | 36.19 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 3:47:50 | 38.71 | 36.51 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 3:47:50 | 39.04 | 36.84 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 3:47:51 | 39.37 | 37.17 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 3:47:51 | 39.70 | 37.50 | 966 | 0.35 | 0.33 | 52.8 |
| 4/27/2015 3:47:51 | 40.03 | 37.83 | 969 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 3:47:52 | 40.35 | 38.15 | 969 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 3:47:52 | 40.68 | 38.48 | 978 | 0.35 | 0.33 | 53.5 |
| 4/27/2015 3:47:52 | 41.01 | 38.81 | 972 | 0.35 | 0.32 | 53.2 |
| 4/27/2015 3:47:53 | 41.34 | 39.14 | 972 | 0.35 | 0.32 | 53.2 |
| 4/27/2015 3:47:53 | 41.67 | 39.47 | 970 | 0.35 | 0.33 | 53.0 |
| 4/27/2015 3:47:53 | 41.99 | 39.79 | 970 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 3:47:54 | 42.32 | 40.12 | 983 | 0.35 | 0.33 | 53.7 |
| 4/27/2015 3:47:55 | 42.65 | 40.45 | 983 | 0.35 | 0.33 | 53.7 |
| 4/27/2015 3:47:55 | 42.98 | 40.78 | 974 | 0.35 | 0.32 | 53.2 |
| 4/27/2015 3:47:55 | 43.31 | 41.11 | 971 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 3:47:56 | 43.64 | 41.44 | 971 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 3:47:56 | 43.96 | 41.76 | 979 | 0.35 | 0.32 | 53.5 |
| 4/27/2015 3:47:56 | 44.29 | 42.09 | 1,003 | 0.34 | 0.33 | 54.9 |
| 4/27/2015 3:47:57 | 44.62 | 42.42 | 1,003 | 0.34 | 0.33 | 54.9 |
| 4/27/2015 3:47:57 | 44.95 | 42.75 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 3:47:57 | 45.28 | 43.08 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 3:47:58 | 45.60 | 43.40 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 3:47:58 | 45.93 | 43.73 | 968 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 3:47:58 | 46.26 | 44.06 | 968 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 3:47:59 | 46.59 | 44.39 | 973 | 0.35 | 0.32 | 53.2 |
| 4/27/2015 3:47:59 | 46.92 | 44.72 | 973 | 0.35 | 0.32 | 53.2 |
| 4/27/2015 3:47:59 | 47.24 | 45.04 | 976 | 0.35 | 0.32 | 53.4 |
| 4/27/2015 3:48:00 | 47.57 | 45.37 | 967 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 3:48:00 | 47.90 | 45.70 | 967 | 0.35 | 0.32 | 52.9 |
| 4/27/2015 3:48:00 | 48.23 | 46.03 | 990 | 0.35 | 0.33 | 54.1 |
| 4/27/2015 3:48:01 | 48.56 | 46.36 | 976 | 0.34 | 0.35 | 53.4 |
| 4/27/2015 3:48:06 | 48.88 | 46.68 | 0 | 2.67 | 0.34 | 0.0 |
| 4/27/2015 3:48:07 | 49.21 | 47.01 | 156 | 3.96 | 0.38 | 8.5 |
| 4/27/2015 3:48:08 | 49.54 | 47.34 | 229 | 2.95 | 0.39 | 12.5 |
| 4/27/2015 3:48:10 | 49.87 | 47.67 | 204 | 5.06 | 0.39 | 11.2 |
| 4/27/2015 3:48:17 | 50.20 | 48.00 | 41 | 4.27 | 0.37 | 2.3 |
| 4/27/2015 3:48:18 | 50.53 | 48.33 | 202 | 3.67 | 0.36 | 11.0 |
| 4/27/2015 3:48:23 | 50.85 | 48.65 | 54 | 3.20 | 0.37 | 3.0 |
| 4/27/2015 3:48:24 | 51.18 | 48.98 | 188 | 3.69 | 0.38 | 10.3 |
| 4/27/2015 3:48:25 | 51.51 | 49.31 | 295 | 2.72 | 0.40 | 16.2 |
| 4/27/2015 3:48:29 | 51.84 | 49.64 | 96 | 3.80 | 0.40 | 5.2 |
| 4/27/2015 3:48:44 | 52.17 | 49.97 | 35 | 4.44 | 0.40 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:48:50 | 52.49 | 50.29 | 55 | 3.09 | 0.40 | 3.0 |
| 4/27/2015 | 3:49:00 | 52.82 | 50.62 | 40 | 3.19 | 0.40 | 2.2 |
| 4/27/2015 | 3:49:10 | 53.15 | 50.95 | 38 | 3.72 | 0.41 | 2.1 |
| 4/27/2015 | 3:49:15 | 53.38 | 51.18 | 35 | 2.94 | 0.39 | 1.9 |

## H211 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:46:07

**End Date:**
4/27/2015 3:50:43

**Operator Note:**
'2.2 1.9b Auto Complete'

**Northing:**
365,455.17

**Easting:**
249,411.35

**Tide (feet):**
2.20



## Hole: H212 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:53:03 | 32.48 | 30.28 | 1,010 | 0.35 | 0.31 | 55.2 |
| 4/27/2015 3:53:04 | 32.81 | 30.61 | 1,024 | 0.34 | 0.31 | 56.0 |
| 4/27/2015 3:53:04 | 33.14 | 30.94 | 1,024 | 0.34 | 0.31 | 56.0 |
| 4/27/2015 3:53:04 | 33.46 | 31.26 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 3:53:05 | 33.79 | 31.59 | 1,009 | 0.36 | 0.32 | 55.2 |
| 4/27/2015 3:53:05 | 34.12 | 31.92 | 1,009 | 0.36 | 0.32 | 55.2 |
| 4/27/2015 3:53:05 | 34.45 | 32.25 | 1,004 | 0.35 | 0.32 | 54.9 |
| 4/27/2015 3:53:06 | 34.78 | 32.58 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:53:06 | 35.11 | 32.91 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:53:06 | 35.43 | 33.23 | 1,009 | 0.37 | 0.32 | 55.2 |
| 4/27/2015 3:53:07 | 35.76 | 33.56 | 1,006 | 0.35 | 0.32 | 55.0 |
| 4/27/2015 3:53:08 | 36.09 | 33.89 | 1,001 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:08 | 36.42 | 34.22 | 1,001 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:08 | 36.75 | 34.55 | 1,012 | 0.35 | 0.32 | 55.3 |
| 4/27/2015 3:53:09 | 37.07 | 34.87 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 3:53:09 | 37.40 | 35.20 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 3:53:09 | 37.73 | 35.53 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 3:53:10 | 38.06 | 35.86 | 985 | 0.35 | 0.32 | 53.9 |
| 4/27/2015 3:53:10 | 38.39 | 36.19 | 985 | 0.35 | 0.32 | 53.9 |
| 4/27/2015 3:53:10 | 38.71 | 36.51 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:11 | 39.04 | 36.84 | 1,003 | 0.35 | 0.32 | 54.8 |
| 4/27/2015 3:53:11 | 39.37 | 37.17 | 1,003 | 0.35 | 0.32 | 54.8 |
| 4/27/2015 3:53:11 | 39.70 | 37.50 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:12 | 40.03 | 37.83 | 1,008 | 0.35 | 0.32 | 55.1 |
| 4/27/2015 3:53:12 | 40.35 | 38.15 | 1,008 | 0.35 | 0.32 | 55.1 |
| 4/27/2015 3:53:12 | 40.68 | 38.48 | 1,018 | 0.35 | 0.32 | 55.7 |
| 4/27/2015 3:53:13 | 41.01 | 38.81 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:13 | 41.34 | 39.14 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:14 | 41.67 | 39.47 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:14 | 41.99 | 39.79 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:14 | 42.32 | 40.12 | 1,003 | 0.35 | 0.31 | 54.9 |
| 4/27/2015 3:53:15 | 42.65 | 40.45 | 1,003 | 0.35 | 0.31 | 54.9 |
| 4/27/2015 3:53:15 | 42.98 | 40.78 | 997 | 0.34 | 0.32 | 54.5 |
| 4/27/2015 3:53:15 | 43.31 | 41.11 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:16 | 43.64 | 41.44 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:16 | 43.96 | 41.76 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:16 | 44.29 | 42.09 | 1,006 | 0.35 | 0.32 | 55.0 |
| 4/27/2015 3:53:17 | 44.62 | 42.42 | 1,006 | 0.35 | 0.32 | 55.0 |
| 4/27/2015 3:53:17 | 44.95 | 42.75 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 3:53:18 | 45.28 | 43.08 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:18 | 45.60 | 43.40 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 3:53:18 | 45.93 | 43.73 | 992 | 0.34 | 0.33 | 54.2 |
| 4/27/2015 3:53:19 | 46.26 | 44.06 | 966 | 0.33 | 0.34 | 52.8 |
| 4/27/2015 3:53:19 | 46.59 | 44.39 | 913 | 0.33 | 0.36 | 49.9 |
| 4/27/2015 3:53:24 | 46.92 | 44.72 | 0 | 2.09 | 0.32 | 0.0 |
| 4/27/2015 3:53:25 | 47.24 | 45.04 | 120 | 2.36 | 0.33 | 6.6 |
| 4/27/2015 3:53:25 | 47.57 | 45.37 | 302 | 3.16 | 0.35 | 16.5 |
| 4/27/2015 3:53:26 | 47.90 | 45.70 | 509 | 5.75 | 0.37 | 27.8 |
| 4/27/2015 3:53:28 | 48.23 | 46.03 | 349 | 4.85 | 0.40 | 19.1 |
| 4/27/2015 3:53:34 | 48.56 | 46.36 | 0 | 2.97 | 0.36 | 0.0 |
| 4/27/2015 3:53:35 | 48.88 | 46.68 | 58 | 4.52 | 0.37 | 3.2 |
| 4/27/2015 3:53:36 | 49.21 | 47.01 | 143 | 3.31 | 0.37 | 7.8 |
| 4/27/2015 3:53:37 | 49.54 | 47.34 | 312 | 3.48 | 0.37 | 17.1 |
| 4/27/2015 3:53:38 | 49.87 | 47.67 | 395 | 3.55 | 0.37 | 21.6 |
| 4/27/2015 3:53:42 | 50.20 | 48.00 | 0 | 3.50 | 0.36 | 0.0 |
| 4/27/2015 3:53:43 | 50.53 | 48.33 | 146 | 2.91 | 0.37 | 8.0 |
| 4/27/2015 3:53:44 | 50.85 | 48.65 | 234 | 2.69 | 0.37 | 12.8 |
| 4/27/2015 3:53:45 | 51.18 | 48.98 | 408 | 3.31 | 0.38 | 22.3 |
| 4/27/2015 3:53:46 | 51.51 | 49.31 | 338 | 3.39 | 0.38 | 18.5 |
| 4/27/2015 3:53:48 | 51.84 | 49.64 | 237 | 3.06 | 0.37 | 13.0 |
| 4/27/2015 3:53:49 | 52.17 | 49.97 | 238 | 3.14 | 0.37 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:53:50 | 52.49 | 50.29 | 279 | 2.76 | 0.37 | 15.3 |
| 4/27/2015 | 3:53:51 | 52.82 | 50.62 | 379 | 2.63 | 0.37 | 20.7 |
| 4/27/2015 | 3:53:51 | 53.15 | 50.95 | 418 | 2.71 | 0.37 | 22.8 |
| 4/27/2015 | 3:53:52 | 53.48 | 51.28 | 457 | 2.82 | 0.37 | 25.0 |
| 4/27/2015 | 3:53:53 | 53.81 | 51.61 | 428 | 3.14 | 0.38 | 23.4 |
| 4/27/2015 | 3:54:13 | 54.13 | 51.93 | 47 | 3.87 | 0.40 | 2.5 |
| 4/27/2015 | 3:54:18 | 54.46 | 52.26 | 64 | 3.77 | 0.40 | 3.5 |
| 4/27/2015 | 3:54:23 | 54.79 | 52.59 | 98 | 4.12 | 0.40 | 5.4 |
| 4/27/2015 | 3:54:25 | 55.12 | 52.92 | 130 | 3.71 | 0.38 | 7.1 |
| 4/27/2015 | 3:54:30 | 55.45 | 53.25 | 58 | 3.64 | 0.40 | 3.2 |
| 4/27/2015 | 3:54:34 | 55.77 | 53.57 | 84 | 3.40 | 0.40 | 4.6 |
| 4/27/2015 | 3:54:38 | 56.10 | 53.90 | 106 | 3.66 | 0.39 | 5.8 |
| 4/27/2015 | 3:54:39 | 56.43 | 54.23 | 164 | 3.56 | 0.39 | 9.0 |
| 4/27/2015 | 3:54:43 | 56.76 | 54.56 | 113 | 4.26 | 0.40 | 6.2 |
| 4/27/2015 | 3:54:47 | 57.09 | 54.89 | 72 | 4.54 | 0.40 | 3.9 |

## H212 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:51:30

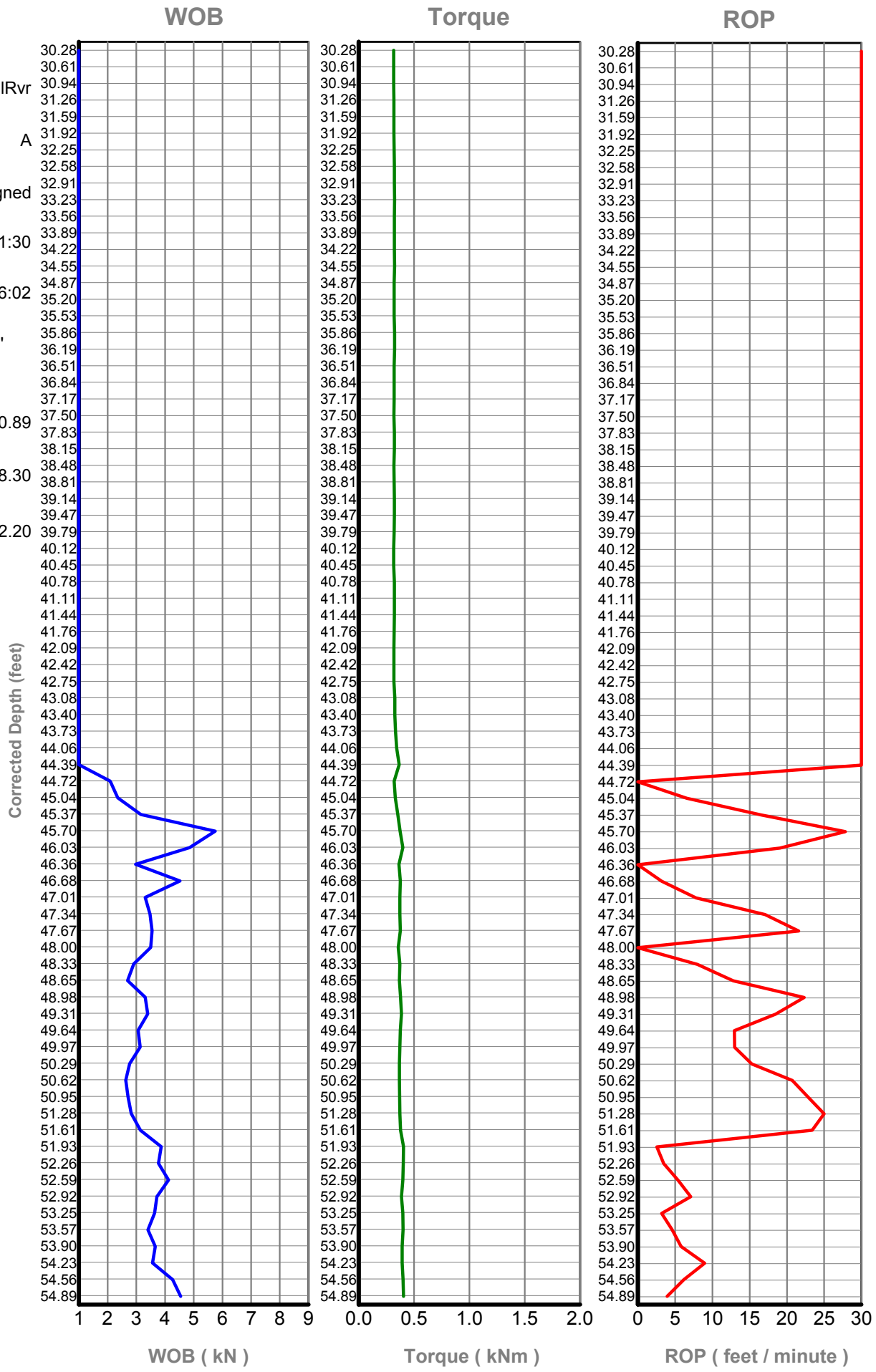
**End Date:**
4/27/2015 3:56:02

**Operator Note:**
'2.2 2.1b Auto Complete'

**Northing:**
365,490.89

**Easting:**
249,458.30

**Tide (feet):**
2.20



## Hole: H213 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:52:21 | 32.48 | 30.28 | 576 | 1.76 | 0.15 | 31.5 |
| 4/27/2015 3:52:22 | 32.81 | 30.61 | 588 | 1.79 | 0.15 | 32.1 |
| 4/27/2015 3:52:23 | 33.14 | 30.94 | 581 | 1.77 | 0.10 | 31.8 |
| 4/27/2015 3:52:23 | 33.46 | 31.26 | 594 | 1.79 | 0.16 | 32.5 |
| 4/27/2015 3:52:24 | 33.79 | 31.59 | 594 | 1.80 | 0.15 | 32.5 |
| 4/27/2015 3:52:24 | 34.12 | 31.92 | 596 | 1.80 | 0.16 | 32.6 |
| 4/27/2015 3:52:25 | 34.45 | 32.25 | 586 | 1.77 | 0.15 | 32.0 |
| 4/27/2015 3:52:26 | 34.78 | 32.58 | 581 | 1.79 | 0.15 | 31.8 |
| 4/27/2015 3:52:26 | 35.11 | 32.91 | 581 | 1.79 | 0.15 | 31.8 |
| 4/27/2015 3:52:27 | 35.43 | 33.23 | 583 | 1.76 | 0.15 | 31.9 |
| 4/27/2015 3:52:27 | 35.76 | 33.56 | 585 | 1.79 | 0.15 | 32.0 |
| 4/27/2015 3:52:28 | 36.09 | 33.89 | 585 | 1.77 | 0.15 | 32.0 |
| 4/27/2015 3:52:28 | 36.42 | 34.22 | 593 | 1.81 | 0.15 | 32.5 |
| 4/27/2015 3:52:29 | 36.75 | 34.55 | 599 | 1.75 | 0.15 | 32.7 |
| 4/27/2015 3:52:30 | 37.07 | 34.87 | 599 | 1.78 | 0.15 | 32.8 |
| 4/27/2015 3:52:30 | 37.40 | 35.20 | 594 | 1.81 | 0.15 | 32.5 |
| 4/27/2015 3:52:31 | 37.73 | 35.53 | 589 | 1.81 | 0.15 | 32.2 |
| 4/27/2015 3:52:31 | 38.06 | 35.86 | 585 | 1.81 | 0.15 | 32.0 |
| 4/27/2015 3:52:32 | 38.39 | 36.19 | 585 | 1.76 | 0.15 | 32.0 |
| 4/27/2015 3:52:33 | 38.71 | 36.51 | 579 | 1.80 | 0.15 | 31.7 |
| 4/27/2015 3:52:34 | 39.04 | 36.84 | 579 | 1.76 | 0.15 | 31.7 |
| 4/27/2015 3:52:34 | 39.37 | 37.17 | 579 | 1.79 | 0.13 | 31.7 |
| 4/27/2015 3:52:35 | 39.70 | 37.50 | 591 | 1.81 | 0.15 | 32.3 |
| 4/27/2015 3:52:35 | 40.03 | 37.83 | 597 | 1.81 | 0.15 | 32.6 |
| 4/27/2015 3:52:36 | 40.35 | 38.15 | 597 | 1.78 | 0.15 | 32.7 |
| 4/27/2015 3:52:37 | 40.68 | 38.48 | 598 | 1.79 | 0.15 | 32.7 |
| 4/27/2015 3:52:37 | 41.01 | 38.81 | 593 | 1.79 | 0.15 | 32.4 |
| 4/27/2015 3:52:38 | 41.34 | 39.14 | 587 | 1.79 | 0.15 | 32.1 |
| 4/27/2015 3:52:38 | 41.67 | 39.47 | 590 | 1.80 | 0.15 | 32.3 |
| 4/27/2015 3:52:39 | 41.99 | 39.79 | 590 | 1.81 | 0.15 | 32.3 |
| 4/27/2015 3:52:39 | 42.32 | 40.12 | 593 | 1.79 | 0.15 | 32.4 |
| 4/27/2015 3:52:40 | 42.65 | 40.45 | 587 | 1.73 | 0.15 | 32.1 |
| 4/27/2015 3:52:41 | 42.98 | 40.78 | 583 | 1.78 | 0.16 | 31.9 |
| 4/27/2015 3:52:41 | 43.31 | 41.11 | 587 | 1.78 | 0.15 | 32.1 |
| 4/27/2015 3:52:42 | 43.64 | 41.44 | 584 | 1.78 | 0.15 | 31.9 |
| 4/27/2015 3:52:42 | 43.96 | 41.76 | 584 | 1.79 | 0.15 | 31.9 |
| 4/27/2015 3:52:43 | 44.29 | 42.09 | 587 | 1.80 | 0.15 | 32.1 |
| 4/27/2015 3:52:44 | 44.62 | 42.42 | 587 | 1.78 | 0.15 | 32.1 |
| 4/27/2015 3:52:45 | 44.95 | 42.75 | 587 | 1.79 | 0.16 | 32.1 |
| 4/27/2015 3:52:45 | 45.28 | 43.08 | 580 | 1.74 | 0.15 | 31.7 |
| 4/27/2015 3:52:46 | 45.60 | 43.40 | 584 | 1.81 | 0.15 | 31.9 |
| 4/27/2015 3:52:46 | 45.93 | 43.73 | 584 | 1.79 | 0.15 | 31.9 |
| 4/27/2015 3:52:47 | 46.26 | 44.06 | 584 | 1.76 | 0.15 | 31.9 |
| 4/27/2015 3:52:48 | 46.59 | 44.39 | 594 | 1.79 | 0.15 | 32.5 |
| 4/27/2015 3:52:48 | 46.92 | 44.72 | 590 | 1.79 | 0.15 | 32.3 |
| 4/27/2015 3:52:49 | 47.24 | 45.04 | 590 | 1.77 | 0.15 | 32.3 |
| 4/27/2015 3:52:49 | 47.57 | 45.37 | 575 | 1.77 | 0.15 | 31.4 |
| 4/27/2015 3:52:50 | 47.90 | 45.70 | 575 | 1.79 | 0.15 | 31.4 |
| 4/27/2015 3:52:50 | 48.23 | 46.03 | 576 | 1.78 | 0.15 | 31.5 |
| 4/27/2015 3:53:01 | 48.56 | 46.36 | 0 | 1.80 | 1.18 | 0.0 |
| 4/27/2015 3:53:02 | 48.88 | 46.68 | 138 | 1.81 | 1.16 | 7.5 |
| 4/27/2015 3:53:02 | 49.21 | 47.01 | 138 | 1.81 | 1.18 | 7.5 |
| 4/27/2015 3:53:03 | 49.54 | 47.34 | 294 | 1.78 | 1.15 | 16.1 |
| 4/27/2015 3:53:16 | 49.87 | 47.67 | 44 | 1.79 | 1.21 | 2.4 |
| 4/27/2015 3:53:17 | 50.20 | 48.00 | 158 | 1.81 | 1.13 | 8.7 |
| 4/27/2015 3:53:30 | 50.53 | 48.33 | 8 | 1.77 | 1.17 | 0.4 |
| 4/27/2015 3:53:32 | 50.85 | 48.65 | 111 | 1.80 | 1.17 | 6.0 |
| 4/27/2015 3:53:33 | 51.18 | 48.98 | 236 | 1.76 | 1.10 | 12.9 |
| 4/27/2015 3:53:34 | 51.51 | 49.31 | 261 | 1.76 | 1.05 | 14.3 |
| 4/27/2015 3:53:36 | 51.84 | 49.64 | 311 | 1.76 | 1.04 | 17.0 |
| 4/27/2015 3:53:44 | 52.17 | 49.97 | 6 | 1.77 | 1.14 | 0.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:53:47 | 52.49 | 50.29 | 126 | 1.77 | 1.27 | 6.9 |
| 4/27/2015 | 3:53:49 | 52.82 | 50.62 | 149 | 1.80 | 1.17 | 8.1 |
| 4/27/2015 | 3:53:53 | 53.15 | 50.95 | 105 | 1.80 | 1.11 | 5.7 |
| 4/27/2015 | 3:53:55 | 53.48 | 51.28 | 126 | 1.78 | 1.12 | 6.9 |
| 4/27/2015 | 3:53:58 | 53.81 | 51.61 | 131 | 1.79 | 1.18 | 7.2 |
| 4/27/2015 | 3:54:02 | 54.13 | 51.93 | 109 | 1.81 | 1.18 | 5.9 |
| 4/27/2015 | 3:54:05 | 54.46 | 52.26 | 101 | 1.79 | 1.19 | 5.5 |
| 4/27/2015 | 3:54:08 | 54.79 | 52.59 | 122 | 1.81 | 1.15 | 6.7 |
| 4/27/2015 | 3:54:12 | 55.12 | 52.92 | 104 | 1.81 | 1.15 | 5.7 |
| 4/27/2015 | 3:54:17 | 55.45 | 53.25 | 63 | 1.81 | 1.20 | 3.5 |
| 4/27/2015 | 3:54:23 | 55.77 | 53.57 | 52 | 1.80 | 1.20 | 2.9 |
| 4/27/2015 | 3:54:27 | 56.10 | 53.90 | 102 | 1.79 | 1.10 | 5.6 |
| 4/27/2015 | 3:54:30 | 56.43 | 54.23 | 120 | 1.81 | 1.13 | 6.6 |
| 4/27/2015 | 3:54:33 | 56.76 | 54.56 | 113 | 1.81 | 1.22 | 6.2 |
| 4/27/2015 | 3:54:36 | 57.02 | 54.82 | 116 | 1.77 | 1.10 | 6.3 |

## H213 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 3:51:05

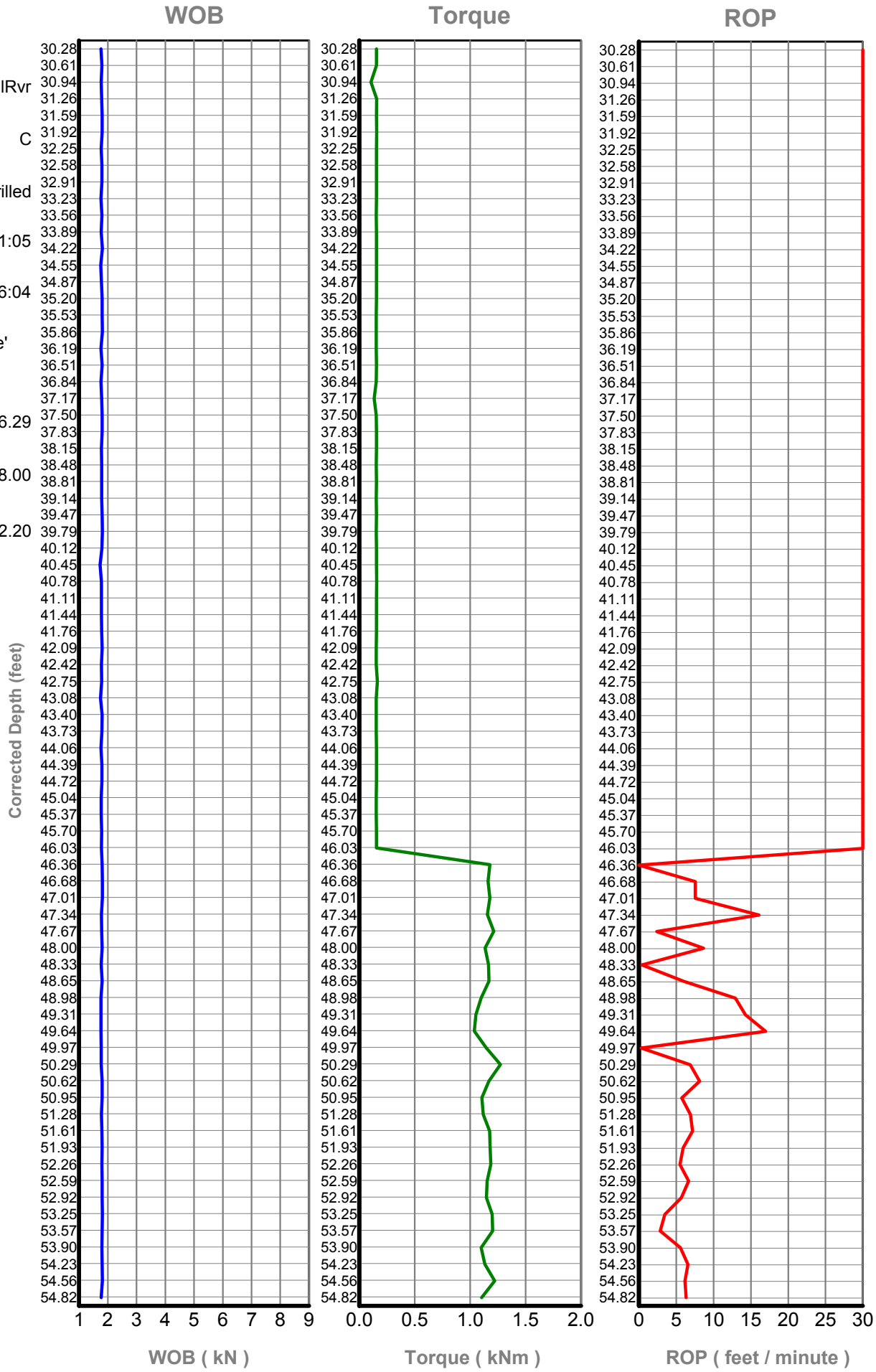
**End Date:**
4/27/2015 3:56:04

**Operator Note:**
'2.2 1.9 c Auto Complete'

**Northing:**
365,536.29

**Easting:**
249,518.00

**Tide (feet):**
2.20



## Hole: H214 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:18:51 | 32.15 | 30.05 | 1,038 | 1.82 | 0.30 | 56.7 |
| 4/27/2015 1:18:52 | 32.48 | 30.38 | 1,041 | 1.81 | 0.30 | 56.9 |
| 4/27/2015 1:18:52 | 32.81 | 30.71 | 1,041 | 1.81 | 0.30 | 56.9 |
| 4/27/2015 1:18:52 | 33.14 | 31.04 | 1,020 | 1.82 | 0.30 | 55.8 |
| 4/27/2015 1:18:53 | 33.46 | 31.36 | 1,018 | 1.82 | 0.31 | 55.6 |
| 4/27/2015 1:18:53 | 33.79 | 31.69 | 1,018 | 1.82 | 0.31 | 55.6 |
| 4/27/2015 1:18:53 | 34.12 | 32.02 | 1,018 | 1.81 | 0.30 | 55.6 |
| 4/27/2015 1:18:54 | 34.45 | 32.35 | 1,037 | 1.81 | 0.31 | 56.7 |
| 4/27/2015 1:18:54 | 34.78 | 32.68 | 1,037 | 1.81 | 0.31 | 56.7 |
| 4/27/2015 1:18:54 | 35.11 | 33.01 | 1,039 | 1.81 | 0.31 | 56.8 |
| 4/27/2015 1:18:55 | 35.43 | 33.33 | 1,042 | 1.81 | 0.30 | 57.0 |
| 4/27/2015 1:18:55 | 35.76 | 33.66 | 1,042 | 1.81 | 0.30 | 57.0 |
| 4/27/2015 1:18:55 | 36.09 | 33.99 | 1,042 | 1.81 | 0.31 | 57.0 |
| 4/27/2015 1:18:56 | 36.42 | 34.32 | 1,055 | 1.81 | 0.30 | 57.7 |
| 4/27/2015 1:18:56 | 36.75 | 34.65 | 1,055 | 1.81 | 0.30 | 57.7 |
| 4/27/2015 1:18:56 | 37.07 | 34.97 | 1,030 | 1.79 | 0.30 | 56.3 |
| 4/27/2015 1:18:57 | 37.40 | 35.30 | 1,030 | 1.80 | 0.31 | 56.3 |
| 4/27/2015 1:18:57 | 37.73 | 35.63 | 1,030 | 1.80 | 0.31 | 56.3 |
| 4/27/2015 1:18:57 | 38.06 | 35.96 | 1,037 | 1.81 | 0.31 | 56.7 |
| 4/27/2015 1:18:58 | 38.39 | 36.29 | 1,037 | 1.81 | 0.31 | 56.7 |
| 4/27/2015 1:18:58 | 38.71 | 36.61 | 1,031 | 1.81 | 0.30 | 56.4 |
| 4/27/2015 1:18:58 | 39.04 | 36.94 | 1,048 | 1.85 | 0.30 | 57.3 |
| 4/27/2015 1:18:59 | 39.37 | 37.27 | 1,048 | 1.85 | 0.30 | 57.3 |
| 4/27/2015 1:18:59 | 39.70 | 37.60 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:18:59 | 40.03 | 37.93 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 1:19:00 | 40.35 | 38.25 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 1:19:00 | 40.68 | 38.58 | 1,038 | 0.30 | 0.30 | 56.7 |
| 4/27/2015 1:19:00 | 41.01 | 38.91 | 1,031 | 0.30 | 0.30 | 56.4 |
| 4/27/2015 1:19:01 | 41.34 | 39.24 | 1,031 | 0.30 | 0.30 | 56.4 |
| 4/27/2015 1:19:01 | 41.67 | 39.57 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:19:01 | 41.99 | 39.89 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:19:02 | 42.32 | 40.22 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:19:02 | 42.65 | 40.55 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/27/2015 1:19:03 | 42.98 | 40.88 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/27/2015 1:19:03 | 43.31 | 41.21 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/27/2015 1:19:03 | 43.64 | 41.54 | 1,059 | 0.31 | 0.31 | 57.9 |
| 4/27/2015 1:19:04 | 43.96 | 41.86 | 1,049 | 0.31 | 0.30 | 57.4 |
| 4/27/2015 1:19:04 | 44.29 | 42.19 | 1,049 | 0.31 | 0.30 | 57.4 |
| 4/27/2015 1:19:04 | 44.62 | 42.52 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 1:19:05 | 44.95 | 42.85 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 1:19:05 | 45.28 | 43.18 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 1:19:05 | 45.60 | 43.50 | 1,037 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 1:19:06 | 45.93 | 43.83 | 1,040 | 0.32 | 0.30 | 56.9 |
| 4/27/2015 1:19:06 | 46.26 | 44.16 | 1,040 | 0.32 | 0.30 | 56.9 |
| 4/27/2015 1:19:06 | 46.59 | 44.49 | 1,034 | 0.30 | 0.30 | 56.5 |
| 4/27/2015 1:19:07 | 46.92 | 44.82 | 1,040 | 0.31 | 0.30 | 56.9 |
| 4/27/2015 1:19:07 | 47.24 | 45.14 | 1,040 | 0.31 | 0.30 | 56.9 |
| 4/27/2015 1:19:07 | 47.57 | 45.47 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 1:19:08 | 47.90 | 45.80 | 1,035 | 0.30 | 0.30 | 56.6 |
| 4/27/2015 1:19:08 | 48.23 | 46.13 | 1,035 | 0.30 | 0.30 | 56.6 |
| 4/27/2015 1:19:08 | 48.56 | 46.46 | 1,036 | 0.29 | 0.32 | 56.7 |
| 4/27/2015 1:19:09 | 48.88 | 46.78 | 1,013 | 0.28 | 0.35 | 55.4 |
| 4/27/2015 1:19:22 | 49.21 | 47.11 | 0 | 2.08 | 0.37 | 0.0 |
| 4/27/2015 1:19:27 | 49.54 | 47.44 | 88 | 3.64 | 0.39 | 4.8 |
| 4/27/2015 1:19:30 | 49.87 | 47.77 | 129 | 3.74 | 0.39 | 7.1 |
| 4/27/2015 1:19:32 | 50.20 | 48.10 | 211 | 2.80 | 0.38 | 11.5 |
| 4/27/2015 1:19:34 | 50.53 | 48.43 | 181 | 3.35 | 0.38 | 9.9 |
| 4/27/2015 1:19:37 | 50.85 | 48.75 | 144 | 3.10 | 0.38 | 7.9 |
| 4/27/2015 1:19:41 | 51.18 | 49.08 | 67 | 3.93 | 0.38 | 3.6 |
| 4/27/2015 1:19:47 | 51.51 | 49.41 | 61 | 4.16 | 0.38 | 3.3 |
| 4/27/2015 1:19:52 | 51.84 | 49.74 | 67 | 3.45 | 0.39 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:19:56 | 52.17 | 50.07 | 93 | 3.44 | 0.39 | 5.1 |
| 4/27/2015 | 1:20:00 | 52.49 | 50.39 | 103 | 4.02 | 0.39 | 5.6 |
| 4/27/2015 | 1:20:03 | 52.82 | 50.72 | 90 | 5.33 | 0.40 | 4.9 |
| 4/27/2015 | 1:20:07 | 53.15 | 51.05 | 98 | 4.03 | 0.39 | 5.4 |
| 4/27/2015 | 1:20:11 | 53.48 | 51.38 | 96 | 3.94 | 0.39 | 5.2 |
| 4/27/2015 | 1:20:16 | 53.81 | 51.71 | 64 | 3.74 | 0.40 | 3.5 |
| 4/27/2015 | 1:20:22 | 54.13 | 52.03 | 60 | 3.65 | 0.39 | 3.3 |
| 4/27/2015 | 1:20:28 | 54.46 | 52.36 | 55 | 3.82 | 0.38 | 3.0 |
| 4/27/2015 | 1:20:35 | 54.79 | 52.69 | 48 | 3.09 | 0.39 | 2.6 |
| 4/27/2015 | 1:20:42 | 55.12 | 53.02 | 52 | 3.11 | 0.39 | 2.8 |
| 4/27/2015 | 1:20:50 | 55.39 | 53.29 | 42 | 4.14 | 0.40 | 2.3 |

## H214 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:16:19

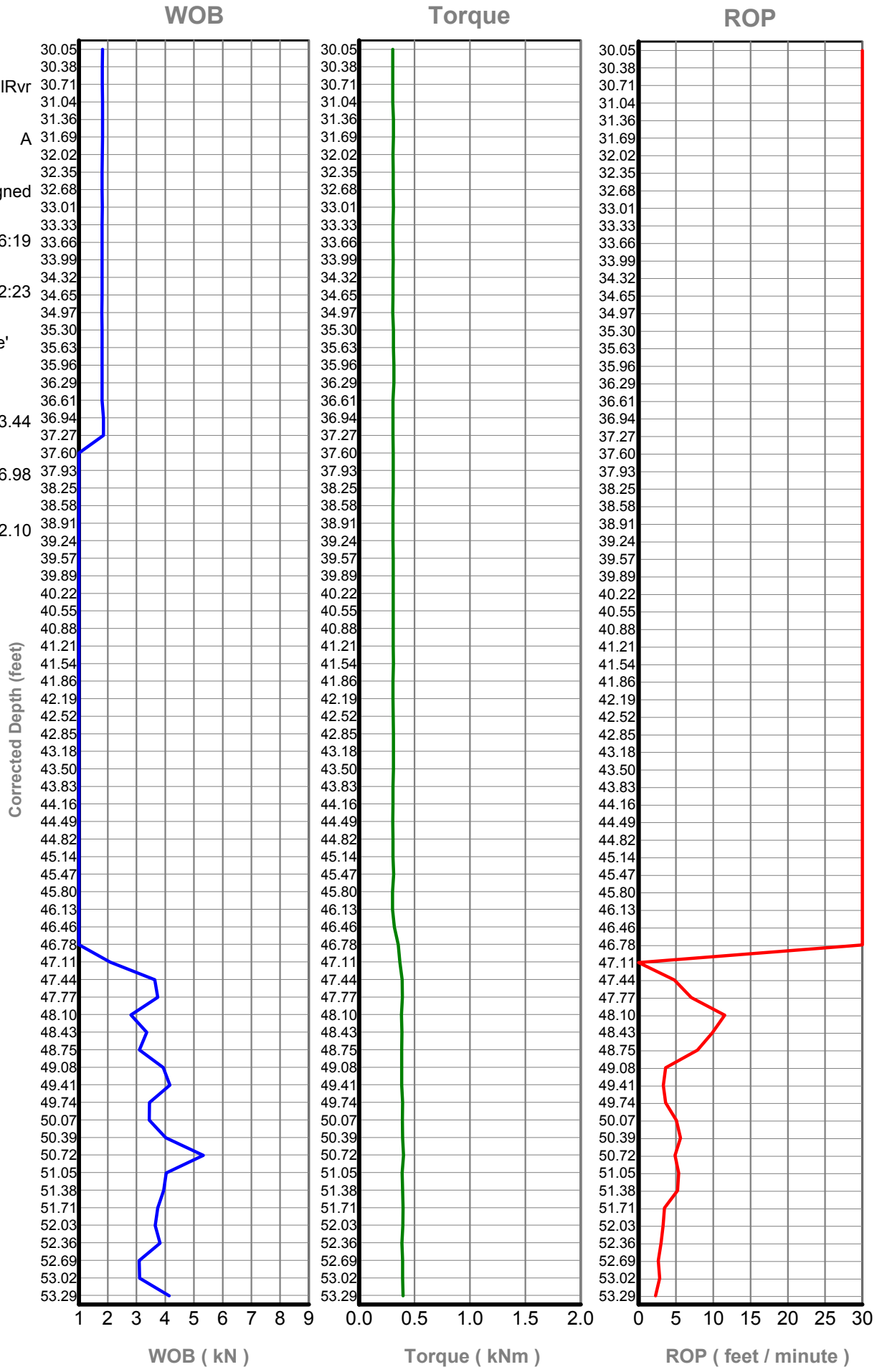
**End Date:**
4/27/2015 1:22:23

**Operator Note:**
'2.1 2.4 b Auto Complete'

**Northing:**
365,593.44

**Easting:**
249,586.98

**Tide (feet):**
2.10



## Hole: H215 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:12:02 | 32.48 | 30.28 | 1,030 | 0.29 | 0.30 | 56.3 |
| 4/27/2015 1:12:02 | 32.81 | 30.61 | 1,030 | 0.29 | 0.30 | 56.3 |
| 4/27/2015 1:12:02 | 33.14 | 30.94 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/27/2015 1:12:03 | 33.46 | 31.26 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 1:12:03 | 33.79 | 31.59 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 1:12:03 | 34.12 | 31.92 | 1,044 | 0.30 | 0.30 | 57.1 |
| 4/27/2015 1:12:04 | 34.45 | 32.25 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 1:12:04 | 34.78 | 32.58 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 1:12:04 | 35.11 | 32.91 | 1,046 | 0.30 | 0.30 | 57.2 |
| 4/27/2015 1:12:05 | 35.43 | 33.23 | 1,041 | 0.30 | 0.30 | 56.9 |
| 4/27/2015 1:12:06 | 35.76 | 33.56 | 1,041 | 0.30 | 0.30 | 56.9 |
| 4/27/2015 1:12:06 | 36.09 | 33.89 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 1:12:06 | 36.42 | 34.22 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/27/2015 1:12:07 | 36.75 | 34.55 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/27/2015 1:12:07 | 37.07 | 34.87 | 1,035 | 0.30 | 0.30 | 56.6 |
| 4/27/2015 1:12:07 | 37.40 | 35.20 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/27/2015 1:12:08 | 37.73 | 35.53 | 1,029 | 0.29 | 0.31 | 56.3 |
| 4/27/2015 1:12:08 | 38.06 | 35.86 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/27/2015 1:12:08 | 38.39 | 36.19 | 1,032 | 0.29 | 0.30 | 56.4 |
| 4/27/2015 1:12:09 | 38.71 | 36.51 | 1,032 | 0.29 | 0.30 | 56.4 |
| 4/27/2015 1:12:09 | 39.04 | 36.84 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/27/2015 1:12:09 | 39.37 | 37.17 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 1:12:10 | 39.70 | 37.50 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 1:12:10 | 40.03 | 37.83 | 1,032 | 0.29 | 0.31 | 56.4 |
| 4/27/2015 1:12:10 | 40.35 | 38.15 | 1,017 | 0.29 | 0.30 | 55.6 |
| 4/27/2015 1:12:11 | 40.68 | 38.48 | 1,017 | 0.29 | 0.30 | 55.6 |
| 4/27/2015 1:12:11 | 41.01 | 38.81 | 1,017 | 0.29 | 0.30 | 55.6 |
| 4/27/2015 1:12:11 | 41.34 | 39.14 | 1,028 | 0.30 | 0.31 | 56.2 |
| 4/27/2015 1:12:12 | 41.67 | 39.47 | 1,028 | 0.30 | 0.31 | 56.2 |
| 4/27/2015 1:12:12 | 41.99 | 39.79 | 1,014 | 0.29 | 0.30 | 55.4 |
| 4/27/2015 1:12:12 | 42.32 | 40.12 | 1,014 | 0.29 | 0.31 | 55.4 |
| 4/27/2015 1:12:13 | 42.65 | 40.45 | 1,014 | 0.29 | 0.31 | 55.4 |
| 4/27/2015 1:12:13 | 42.98 | 40.78 | 1,016 | 0.29 | 0.31 | 55.5 |
| 4/27/2015 1:12:13 | 43.31 | 41.11 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/27/2015 1:12:14 | 43.64 | 41.44 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/27/2015 1:12:14 | 43.96 | 41.76 | 1,040 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 1:12:14 | 44.29 | 42.09 | 1,026 | 0.29 | 0.31 | 56.1 |
| 4/27/2015 1:12:15 | 44.62 | 42.42 | 1,026 | 0.29 | 0.31 | 56.1 |
| 4/27/2015 1:12:15 | 44.95 | 42.75 | 1,046 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 1:12:15 | 45.28 | 43.08 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 1:12:16 | 45.60 | 43.40 | 1,036 | 0.29 | 0.31 | 56.6 |
| 4/27/2015 1:12:16 | 45.93 | 43.73 | 1,029 | 0.32 | 0.30 | 56.3 |
| 4/27/2015 1:12:17 | 46.26 | 44.06 | 1,026 | 0.29 | 0.31 | 56.1 |
| 4/27/2015 1:12:17 | 46.59 | 44.39 | 1,026 | 0.29 | 0.31 | 56.1 |
| 4/27/2015 1:12:17 | 46.92 | 44.72 | 1,035 | 0.30 | 0.30 | 56.6 |
| 4/27/2015 1:12:18 | 47.24 | 45.04 | 1,015 | 0.28 | 0.35 | 55.5 |
| 4/27/2015 1:12:32 | 47.57 | 45.37 | 17 | 4.06 | 0.38 | 0.9 |
| 4/27/2015 1:12:40 | 47.90 | 45.70 | 36 | 3.46 | 0.38 | 1.9 |
| 4/27/2015 1:12:41 | 48.23 | 46.03 | 139 | 3.85 | 0.38 | 7.6 |
| 4/27/2015 1:12:43 | 48.56 | 46.36 | 202 | 4.14 | 0.38 | 11.1 |
| 4/27/2015 1:12:45 | 48.88 | 46.68 | 180 | 3.43 | 0.38 | 9.8 |
| 4/27/2015 1:12:49 | 49.21 | 47.01 | 123 | 4.10 | 0.37 | 6.7 |
| 4/27/2015 1:12:52 | 49.54 | 47.34 | 120 | 3.48 | 0.38 | 6.5 |
| 4/27/2015 1:12:55 | 49.87 | 47.67 | 98 | 3.88 | 0.38 | 5.4 |
| 4/27/2015 1:12:58 | 50.20 | 48.00 | 133 | 3.37 | 0.38 | 7.3 |
| 4/27/2015 1:13:03 | 50.53 | 48.33 | 49 | 3.12 | 0.38 | 2.7 |
| 4/27/2015 1:13:10 | 50.85 | 48.65 | 57 | 3.39 | 0.39 | 3.1 |
| 4/27/2015 1:13:17 | 51.18 | 48.98 | 55 | 3.28 | 0.38 | 3.0 |
| 4/27/2015 1:13:22 | 51.51 | 49.31 | 71 | 3.33 | 0.39 | 3.9 |
| 4/27/2015 1:13:27 | 51.84 | 49.64 | 86 | 3.58 | 0.38 | 4.7 |
| 4/27/2015 1:13:33 | 52.17 | 49.97 | 26 | 3.22 | 0.39 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:13:43 | 52.49 | 50.29 | 38 | 3.04 | 0.39 | 2.1 |
| 4/27/2015 | 1:13:53 | 52.82 | 50.62 | 40 | 2.74 | 0.39 | 2.2 |
| 4/27/2015 | 1:14:04 | 53.15 | 50.95 | 35 | 2.71 | 0.39 | 1.9 |
| 4/27/2015 | 1:14:10 | 53.41 | 51.21 | 54 | 4.15 | 0.39 | 2.9 |

## H215 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:09:06

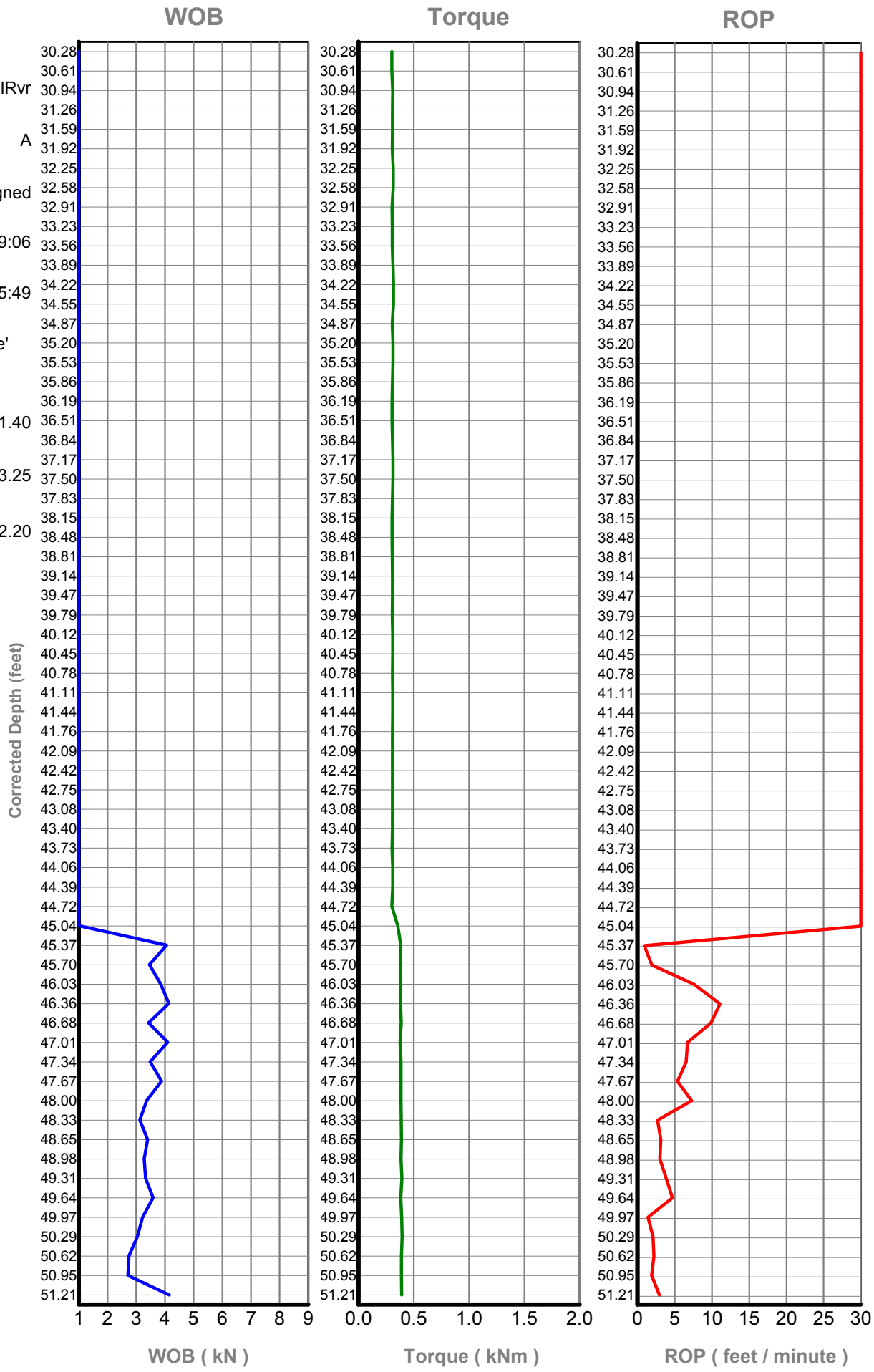
**End Date:**
4/27/2015 1:15:49

**Operator Note:**
'2.2 2.4 b Auto Complete'

**Northing:**
365,631.40

**Easting:**
249,633.25

**Tide (feet):**
2.20



## Hole: H216 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:12:48 | 32.48 | 30.28 | 570 | 1.76 | 0.31 | 31.1 |
| 4/27/2015 1:12:49 | 32.81 | 30.61 | 572 | 1.76 | 0.31 | 31.3 |
| 4/27/2015 1:12:49 | 33.14 | 30.94 | 572 | 1.79 | 0.31 | 31.3 |
| 4/27/2015 1:12:50 | 33.46 | 31.26 | 572 | 1.79 | 0.31 | 31.3 |
| 4/27/2015 1:12:51 | 33.79 | 31.59 | 575 | 1.78 | 0.31 | 31.5 |
| 4/27/2015 1:12:51 | 34.12 | 31.92 | 569 | 1.81 | 0.31 | 31.1 |
| 4/27/2015 1:12:52 | 34.45 | 32.25 | 572 | 1.79 | 0.31 | 31.3 |
| 4/27/2015 1:12:52 | 34.78 | 32.58 | 569 | 1.77 | 0.31 | 31.1 |
| 4/27/2015 1:12:53 | 35.11 | 32.91 | 570 | 1.79 | 0.31 | 31.1 |
| 4/27/2015 1:12:54 | 35.43 | 33.23 | 576 | 1.79 | 0.31 | 31.5 |
| 4/27/2015 1:12:54 | 35.76 | 33.56 | 572 | 1.79 | 0.31 | 31.3 |
| 4/27/2015 1:12:55 | 36.09 | 33.89 | 572 | 1.75 | 0.31 | 31.3 |
| 4/27/2015 1:12:56 | 36.42 | 34.22 | 554 | 1.74 | 0.31 | 30.3 |
| 4/27/2015 1:12:56 | 36.75 | 34.55 | 563 | 1.75 | 0.31 | 30.8 |
| 4/27/2015 1:12:57 | 37.07 | 34.87 | 566 | 1.76 | 0.32 | 31.0 |
| 4/27/2015 1:12:58 | 37.40 | 35.20 | 564 | 1.75 | 0.32 | 30.8 |
| 4/27/2015 1:12:58 | 37.73 | 35.53 | 570 | 1.79 | 0.31 | 31.2 |
| 4/27/2015 1:12:59 | 38.06 | 35.86 | 577 | 1.81 | 0.32 | 31.5 |
| 4/27/2015 1:13:00 | 38.39 | 36.19 | 570 | 1.79 | 0.31 | 31.1 |
| 4/27/2015 1:13:01 | 38.71 | 36.51 | 572 | 1.75 | 0.32 | 31.3 |
| 4/27/2015 1:13:02 | 39.04 | 36.84 | 572 | 1.75 | 0.32 | 31.3 |
| 4/27/2015 1:13:01 | 39.37 | 37.17 | 568 | 1.79 | 0.32 | 31.0 |
| 4/27/2015 1:13:02 | 39.70 | 37.50 | 570 | 1.79 | 0.32 | 31.2 |
| 4/27/2015 1:13:03 | 40.03 | 37.83 | 571 | 1.76 | 0.32 | 31.2 |
| 4/27/2015 1:13:03 | 40.35 | 38.15 | 571 | 1.77 | 0.32 | 31.2 |
| 4/27/2015 1:13:04 | 40.68 | 38.48 | 569 | 1.76 | 0.32 | 31.1 |
| 4/27/2015 1:13:04 | 41.01 | 38.81 | 569 | 1.80 | 0.31 | 31.1 |
| 4/27/2015 1:13:05 | 41.34 | 39.14 | 569 | 1.72 | 0.32 | 31.1 |
| 4/27/2015 1:13:06 | 41.67 | 39.47 | 566 | 1.78 | 0.32 | 30.9 |
| 4/27/2015 1:13:06 | 41.99 | 39.79 | 569 | 1.80 | 0.32 | 31.1 |
| 4/27/2015 1:13:07 | 42.32 | 40.12 | 569 | 1.78 | 0.32 | 31.1 |
| 4/27/2015 1:13:08 | 42.65 | 40.45 | 569 | 1.79 | 0.32 | 31.1 |
| 4/27/2015 1:13:09 | 42.98 | 40.78 | 569 | 1.78 | 0.32 | 31.1 |
| 4/27/2015 1:13:09 | 43.31 | 41.11 | 570 | 1.79 | 0.32 | 31.2 |
| 4/27/2015 1:13:10 | 43.64 | 41.44 | 567 | 1.76 | 0.32 | 31.0 |
| 4/27/2015 1:13:10 | 43.96 | 41.76 | 554 | 1.76 | 0.32 | 30.3 |
| 4/27/2015 1:13:11 | 44.29 | 42.09 | 554 | 1.79 | 0.32 | 30.3 |
| 4/27/2015 1:13:12 | 44.62 | 42.42 | 562 | 1.81 | 0.32 | 30.7 |
| 4/27/2015 1:13:12 | 44.95 | 42.75 | 552 | 1.76 | 0.32 | 30.2 |
| 4/27/2015 1:13:13 | 45.28 | 43.08 | 562 | 1.81 | 0.32 | 30.7 |
| 4/27/2015 1:13:13 | 45.60 | 43.40 | 574 | 1.77 | 0.32 | 31.4 |
| 4/27/2015 1:13:14 | 45.93 | 43.73 | 561 | 1.79 | 0.32 | 30.7 |
| 4/27/2015 1:13:15 | 46.26 | 44.06 | 574 | 1.76 | 0.32 | 31.4 |
| 4/27/2015 1:13:15 | 46.59 | 44.39 | 552 | 1.78 | 0.32 | 30.2 |
| 4/27/2015 1:13:16 | 46.92 | 44.72 | 552 | 1.77 | 0.32 | 30.2 |
| 4/27/2015 1:13:16 | 47.24 | 45.04 | 558 | 1.77 | 0.32 | 30.5 |
| 4/27/2015 1:13:17 | 47.57 | 45.37 | 551 | 1.81 | 0.32 | 30.1 |
| 4/27/2015 1:13:18 | 47.90 | 45.70 | 561 | 1.79 | 0.32 | 30.7 |
| 4/27/2015 1:13:19 | 48.23 | 46.03 | 552 | 1.76 | 0.32 | 30.2 |
| 4/27/2015 1:13:19 | 48.56 | 46.36 | 566 | 1.76 | 0.32 | 31.0 |
| 4/27/2015 1:13:20 | 48.88 | 46.68 | 546 | 1.74 | 0.32 | 29.9 |
| 4/27/2015 1:13:36 | 49.21 | 47.01 | 71 | 1.76 | 1.37 | 3.9 |
| 4/27/2015 1:13:38 | 49.54 | 47.34 | 174 | 1.82 | 1.07 | 9.5 |
| 4/27/2015 1:13:48 | 49.87 | 47.67 | 3 | 1.75 | 1.19 | 0.2 |
| 4/27/2015 1:13:50 | 50.20 | 48.00 | 152 | 1.72 | 1.24 | 8.3 |
| 4/27/2015 1:13:51 | 50.53 | 48.33 | 246 | 1.73 | 1.15 | 13.4 |
| 4/27/2015 1:14:05 | 50.85 | 48.65 | 76 | 1.75 | 1.14 | 4.2 |
| 4/27/2015 1:14:09 | 51.18 | 48.98 | 85 | 1.77 | 1.17 | 4.6 |
| 4/27/2015 1:14:14 | 51.51 | 49.31 | 90 | 1.75 | 1.16 | 4.9 |
| 4/27/2015 1:14:16 | 51.84 | 49.64 | 125 | 1.74 | 1.11 | 6.8 |
| 4/27/2015 1:14:18 | 52.17 | 49.97 | 166 | 1.73 | 1.18 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:14:36 | 52.49 | 50.29 | 20 | 1.76 | 1.11 | 1.1 |
| 4/27/2015 | 1:14:42 | 52.82 | 50.62 | 87 | 1.77 | 1.09 | 4.7 |
| 4/27/2015 | 1:14:51 | 53.15 | 50.95 | 32 | 1.76 | 1.09 | 1.7 |
| 4/27/2015 | 1:15:01 | 53.48 | 51.28 | 38 | 1.77 | 1.05 | 2.1 |
| 4/27/2015 | 1:15:12 | 53.81 | 51.61 | 32 | 1.77 | 1.06 | 1.8 |
| 4/27/2015 | 1:15:15 | 53.90 | 51.70 | 35 | 1.76 | 1.05 | 1.9 |

## H216 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:11:26

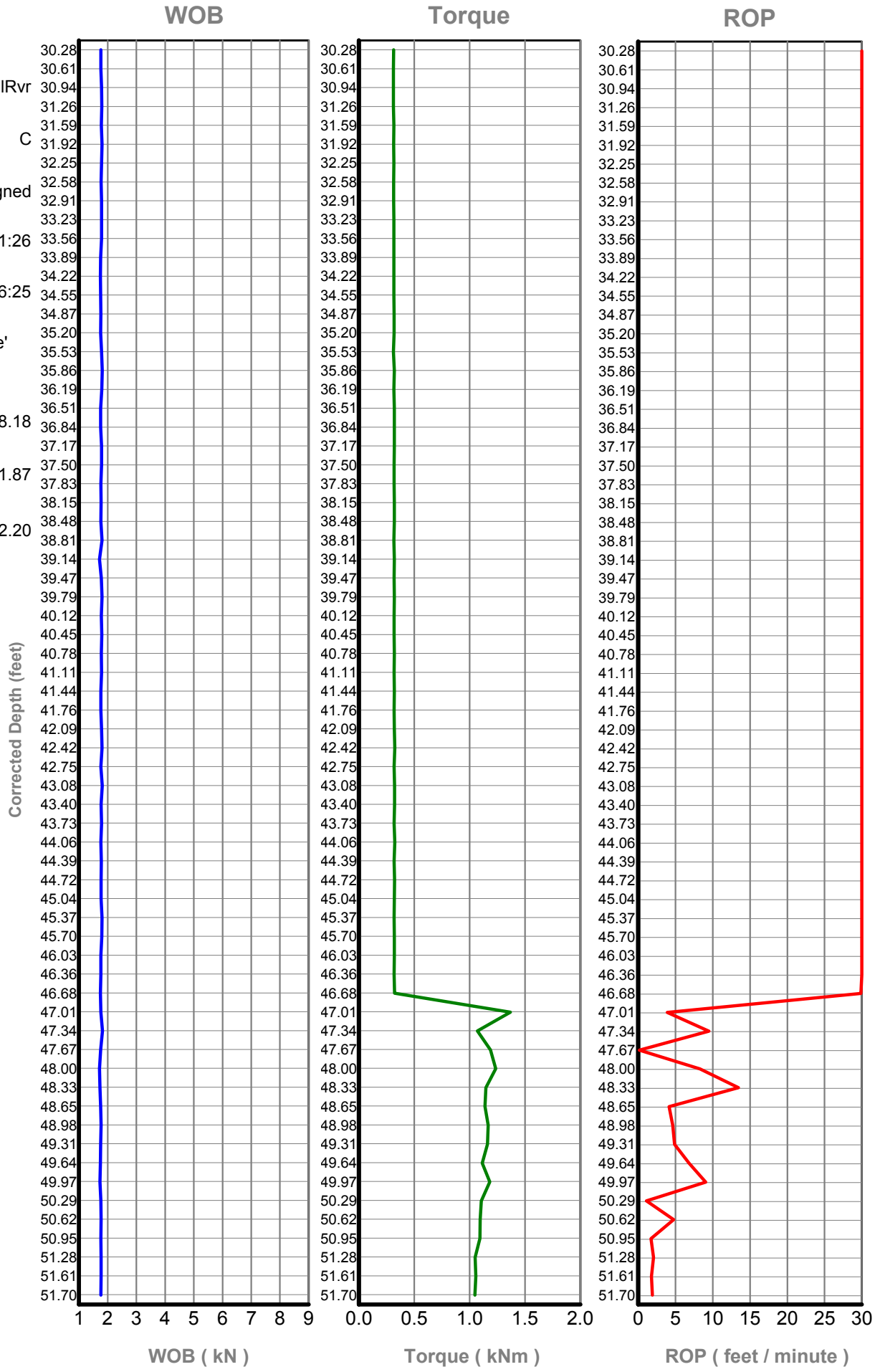
**End Date:**
4/27/2015 1:16:25

**Operator Note:**
'2.2 2.4 c Auto Complete'

**Northing:**
365,678.18

**Easting:**
249,691.87

**Tide (feet):**
2.20



## Hole: H217 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:19:00 | 36.09 | 30.09 | 960 | 0.35 | 0.32 | 52.5 |
| 4/26/2015 21:19:00 | 36.42 | 30.42 | 935 | 0.35 | 0.32 | 51.1 |
| 4/26/2015 21:19:01 | 36.75 | 30.75 | 935 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 21:19:01 | 37.07 | 31.07 | 935 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 21:19:01 | 37.40 | 31.40 | 952 | 0.35 | 0.33 | 52.1 |
| 4/26/2015 21:19:02 | 37.73 | 31.73 | 955 | 0.35 | 0.32 | 52.2 |
| 4/26/2015 21:19:02 | 38.06 | 32.06 | 949 | 0.35 | 0.32 | 51.9 |
| 4/26/2015 21:19:03 | 38.39 | 32.39 | 949 | 0.35 | 0.32 | 51.9 |
| 4/26/2015 21:19:03 | 38.71 | 32.71 | 936 | 0.37 | 0.33 | 51.2 |
| 4/26/2015 21:19:03 | 39.04 | 33.04 | 936 | 0.35 | 0.33 | 51.2 |
| 4/26/2015 21:19:04 | 39.37 | 33.37 | 936 | 0.35 | 0.33 | 51.2 |
| 4/26/2015 21:19:04 | 39.70 | 33.70 | 975 | 0.35 | 0.32 | 53.3 |
| 4/26/2015 21:19:04 | 40.03 | 34.03 | 961 | 0.35 | 0.32 | 52.5 |
| 4/26/2015 21:19:05 | 40.35 | 34.35 | 964 | 0.35 | 0.32 | 52.7 |
| 4/26/2015 21:19:05 | 40.68 | 34.68 | 964 | 0.35 | 0.32 | 52.7 |
| 4/26/2015 21:19:05 | 41.01 | 35.01 | 964 | 0.33 | 0.33 | 52.7 |
| 4/26/2015 21:19:06 | 41.34 | 35.34 | 977 | 0.35 | 0.32 | 53.4 |
| 4/26/2015 21:19:06 | 41.67 | 35.67 | 977 | 0.35 | 0.32 | 53.4 |
| 4/26/2015 21:19:06 | 41.99 | 35.99 | 966 | 0.35 | 0.32 | 52.8 |
| 4/26/2015 21:19:07 | 42.32 | 36.32 | 966 | 0.35 | 0.33 | 52.8 |
| 4/26/2015 21:19:08 | 42.65 | 36.65 | 960 | 0.35 | 0.33 | 52.5 |
| 4/26/2015 21:19:08 | 42.98 | 36.98 | 960 | 0.35 | 0.33 | 52.5 |
| 4/26/2015 21:19:08 | 43.31 | 37.31 | 960 | 0.35 | 0.32 | 52.5 |
| 4/26/2015 21:19:09 | 43.64 | 37.64 | 954 | 0.35 | 0.33 | 52.2 |
| 4/26/2015 21:19:09 | 43.96 | 37.96 | 954 | 0.35 | 0.33 | 52.2 |
| 4/26/2015 21:19:09 | 44.29 | 38.29 | 960 | 0.35 | 0.33 | 52.5 |
| 4/26/2015 21:19:10 | 44.62 | 38.62 | 954 | 0.35 | 0.33 | 52.2 |
| 4/26/2015 21:19:10 | 44.95 | 38.95 | 954 | 0.35 | 0.32 | 52.2 |
| 4/26/2015 21:19:11 | 45.28 | 39.28 | 954 | 0.35 | 0.32 | 52.2 |
| 4/26/2015 21:19:11 | 45.60 | 39.60 | 951 | 0.35 | 0.32 | 52.0 |
| 4/26/2015 21:19:11 | 45.93 | 39.93 | 951 | 0.35 | 0.33 | 52.0 |
| 4/26/2015 21:19:12 | 46.26 | 40.26 | 951 | 0.35 | 0.33 | 52.0 |
| 4/26/2015 21:19:12 | 46.59 | 40.59 | 945 | 0.35 | 0.33 | 51.7 |
| 4/26/2015 21:19:12 | 46.92 | 40.92 | 948 | 0.35 | 0.32 | 51.8 |
| 4/26/2015 21:19:13 | 47.24 | 41.24 | 939 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 21:19:13 | 47.57 | 41.57 | 939 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 21:19:13 | 47.90 | 41.90 | 948 | 0.35 | 0.32 | 51.8 |
| 4/26/2015 21:19:14 | 48.23 | 42.23 | 948 | 0.35 | 0.32 | 51.8 |
| 4/26/2015 21:19:14 | 48.56 | 42.56 | 948 | 0.35 | 0.32 | 51.8 |
| 4/26/2015 21:19:15 | 48.88 | 42.88 | 948 | 0.35 | 0.32 | 51.8 |
| 4/26/2015 21:19:15 | 49.21 | 43.21 | 945 | 0.35 | 0.33 | 51.7 |
| 4/26/2015 21:19:15 | 49.54 | 43.54 | 951 | 0.35 | 0.32 | 52.0 |
| 4/26/2015 21:19:16 | 49.87 | 43.87 | 951 | 0.35 | 0.32 | 52.0 |
| 4/26/2015 21:19:16 | 50.20 | 44.20 | 948 | 0.36 | 0.33 | 51.8 |
| 4/26/2015 21:19:16 | 50.53 | 44.53 | 948 | 0.35 | 0.33 | 51.8 |
| 4/26/2015 21:19:17 | 50.85 | 44.85 | 939 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 21:19:18 | 51.18 | 45.18 | 939 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 21:19:18 | 51.51 | 45.51 | 948 | 0.34 | 0.35 | 51.8 |
| 4/26/2015 21:19:18 | 51.84 | 45.84 | 914 | 0.33 | 0.37 | 50.0 |
| 4/26/2015 21:19:28 | 52.17 | 46.17 | 97 | 3.15 | 0.38 | 5.3 |
| 4/26/2015 21:19:29 | 52.49 | 46.49 | 247 | 3.14 | 0.40 | 13.5 |
| 4/26/2015 21:19:45 | 52.82 | 46.82 | 61 | 3.81 | 0.40 | 3.3 |
| 4/26/2015 21:19:51 | 53.15 | 47.15 | 58 | 3.81 | 0.41 | 3.1 |
| 4/26/2015 21:19:55 | 53.48 | 47.48 | 87 | 4.51 | 0.40 | 4.7 |
| 4/26/2015 21:19:58 | 53.81 | 47.81 | 103 | 3.07 | 0.37 | 5.6 |
| 4/26/2015 21:19:59 | 54.13 | 48.13 | 141 | 2.99 | 0.37 | 7.7 |
| 4/26/2015 21:20:00 | 54.46 | 48.46 | 257 | 3.75 | 0.38 | 14.0 |
| 4/26/2015 21:20:02 | 54.79 | 48.79 | 237 | 3.64 | 0.40 | 12.9 |
| 4/26/2015 21:20:05 | 55.12 | 49.12 | 112 | 3.28 | 0.40 | 6.1 |
| 4/26/2015 21:20:12 | 55.45 | 49.45 | 51 | 3.30 | 0.40 | 2.8 |
| 4/26/2015 21:20:19 | 55.77 | 49.77 | 52 | 3.73 | 0.41 | 2.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 21:20:28 | 56.10 | 50.10 | 40 | 3.23 | 0.40 | 2.2 |
| 4/26/2015 | 21:20:33 | 56.35 | 50.35 | 47 | 3.77 | 0.40 | 2.6 |

## H217 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:16:44

**End Date:**
4/26/2015 21:21:44

**Operator Note:**
'6 6.0b Auto Complete'

**Northing:**
365,734.05

**Easting:**
249,766.51

**Tide (feet):**
6.00



## Hole: H218 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:23:04 | 36.09 | 30.09 | 632 | 1.77 | 0.15 | 34.5 |
| 4/26/2015 21:23:04 | 36.42 | 30.42 | 624 | 1.78 | 0.15 | 34.1 |
| 4/26/2015 21:23:05 | 36.75 | 30.75 | 624 | 1.76 | 0.15 | 34.1 |
| 4/26/2015 21:23:05 | 37.07 | 31.07 | 641 | 1.78 | 0.16 | 35.1 |
| 4/26/2015 21:23:06 | 37.40 | 31.40 | 630 | 1.78 | 0.15 | 34.4 |
| 4/26/2015 21:23:07 | 37.73 | 31.73 | 637 | 1.81 | 0.15 | 34.9 |
| 4/26/2015 21:23:07 | 38.06 | 32.06 | 637 | 1.77 | 0.15 | 34.9 |
| 4/26/2015 21:23:08 | 38.39 | 32.39 | 631 | 1.81 | 0.15 | 34.5 |
| 4/26/2015 21:23:08 | 38.71 | 32.71 | 631 | 1.76 | 0.15 | 34.5 |
| 4/26/2015 21:23:09 | 39.04 | 33.04 | 630 | 1.81 | 0.15 | 34.5 |
| 4/26/2015 21:23:09 | 39.37 | 33.37 | 630 | 1.76 | 0.15 | 34.5 |
| 4/26/2015 21:23:10 | 39.70 | 33.70 | 642 | 1.80 | 0.15 | 35.1 |
| 4/26/2015 21:23:11 | 40.03 | 34.03 | 634 | 1.80 | 0.15 | 34.7 |
| 4/26/2015 21:23:11 | 40.35 | 34.35 | 642 | 1.76 | 0.15 | 35.1 |
| 4/26/2015 21:23:12 | 40.68 | 34.68 | 639 | 1.79 | 0.15 | 35.0 |
| 4/26/2015 21:23:12 | 41.01 | 35.01 | 625 | 1.78 | 0.15 | 34.2 |
| 4/26/2015 21:23:13 | 41.34 | 35.34 | 625 | 1.77 | 0.15 | 34.2 |
| 4/26/2015 21:23:13 | 41.67 | 35.67 | 638 | 1.76 | 0.16 | 34.9 |
| 4/26/2015 21:23:14 | 41.99 | 35.99 | 645 | 1.79 | 0.16 | 35.3 |
| 4/26/2015 21:23:14 | 42.32 | 36.32 | 649 | 1.79 | 0.15 | 35.5 |
| 4/26/2015 21:23:15 | 42.65 | 36.65 | 642 | 1.81 | 0.15 | 35.1 |
| 4/26/2015 21:23:15 | 42.98 | 36.98 | 649 | 1.79 | 0.15 | 35.5 |
| 4/26/2015 21:23:16 | 43.31 | 37.31 | 647 | 1.79 | 0.15 | 35.4 |
| 4/26/2015 21:23:16 | 43.64 | 37.64 | 636 | 1.79 | 0.15 | 34.8 |
| 4/26/2015 21:23:17 | 43.96 | 37.96 | 636 | 1.78 | 0.15 | 34.8 |
| 4/26/2015 21:23:18 | 44.29 | 38.29 | 639 | 1.79 | 0.15 | 34.9 |
| 4/26/2015 21:23:19 | 44.62 | 38.62 | 639 | 1.79 | 0.15 | 34.9 |
| 4/26/2015 21:23:19 | 44.95 | 38.95 | 636 | 1.76 | 0.15 | 34.8 |
| 4/26/2015 21:23:20 | 45.28 | 39.28 | 632 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 21:23:20 | 45.60 | 39.60 | 639 | 1.79 | 0.15 | 34.9 |
| 4/26/2015 21:23:21 | 45.93 | 39.93 | 633 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 21:23:21 | 46.26 | 40.26 | 633 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 21:23:22 | 46.59 | 40.59 | 630 | 1.79 | 0.15 | 34.4 |
| 4/26/2015 21:23:22 | 46.92 | 40.92 | 636 | 1.79 | 0.15 | 34.8 |
| 4/26/2015 21:23:23 | 47.24 | 41.24 | 633 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 21:23:23 | 47.57 | 41.57 | 633 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 21:23:24 | 47.90 | 41.90 | 630 | 1.80 | 0.15 | 34.4 |
| 4/26/2015 21:23:24 | 48.23 | 42.23 | 640 | 1.74 | 0.15 | 35.0 |
| 4/26/2015 21:23:25 | 48.56 | 42.56 | 633 | 1.77 | 0.15 | 34.6 |
| 4/26/2015 21:23:26 | 48.88 | 42.88 | 636 | 1.73 | 0.15 | 34.8 |
| 4/26/2015 21:23:26 | 49.21 | 43.21 | 636 | 1.76 | 0.15 | 34.8 |
| 4/26/2015 21:23:27 | 49.54 | 43.54 | 629 | 1.79 | 0.15 | 34.4 |
| 4/26/2015 21:23:28 | 49.87 | 43.87 | 633 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 21:23:28 | 50.20 | 44.20 | 629 | 1.79 | 0.15 | 34.4 |
| 4/26/2015 21:23:29 | 50.53 | 44.53 | 633 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 21:23:29 | 50.85 | 44.85 | 633 | 1.77 | 0.15 | 34.6 |
| 4/26/2015 21:23:30 | 51.18 | 45.18 | 636 | 1.77 | 0.15 | 34.8 |
| 4/26/2015 21:23:30 | 51.51 | 45.51 | 633 | 1.74 | 0.15 | 34.6 |
| 4/26/2015 21:23:31 | 51.84 | 45.84 | 637 | 1.80 | 0.15 | 34.8 |
| 4/26/2015 21:23:58 | 52.17 | 46.17 | 91 | 1.75 | 1.19 | 5.0 |
| 4/26/2015 21:24:00 | 52.49 | 46.49 | 199 | 1.74 | 1.39 | 10.9 |
| 4/26/2015 21:24:09 | 52.82 | 46.82 | 38 | 1.79 | 1.17 | 2.1 |
| 4/26/2015 21:24:18 | 53.15 | 47.15 | 29 | 1.78 | 1.14 | 1.6 |
| 4/26/2015 21:24:30 | 53.48 | 47.48 | 33 | 1.79 | 1.14 | 1.8 |
| 4/26/2015 21:24:37 | 53.70 | 47.70 | 28 | 1.79 | 1.12 | 1.5 |

## H218 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 21:21:17

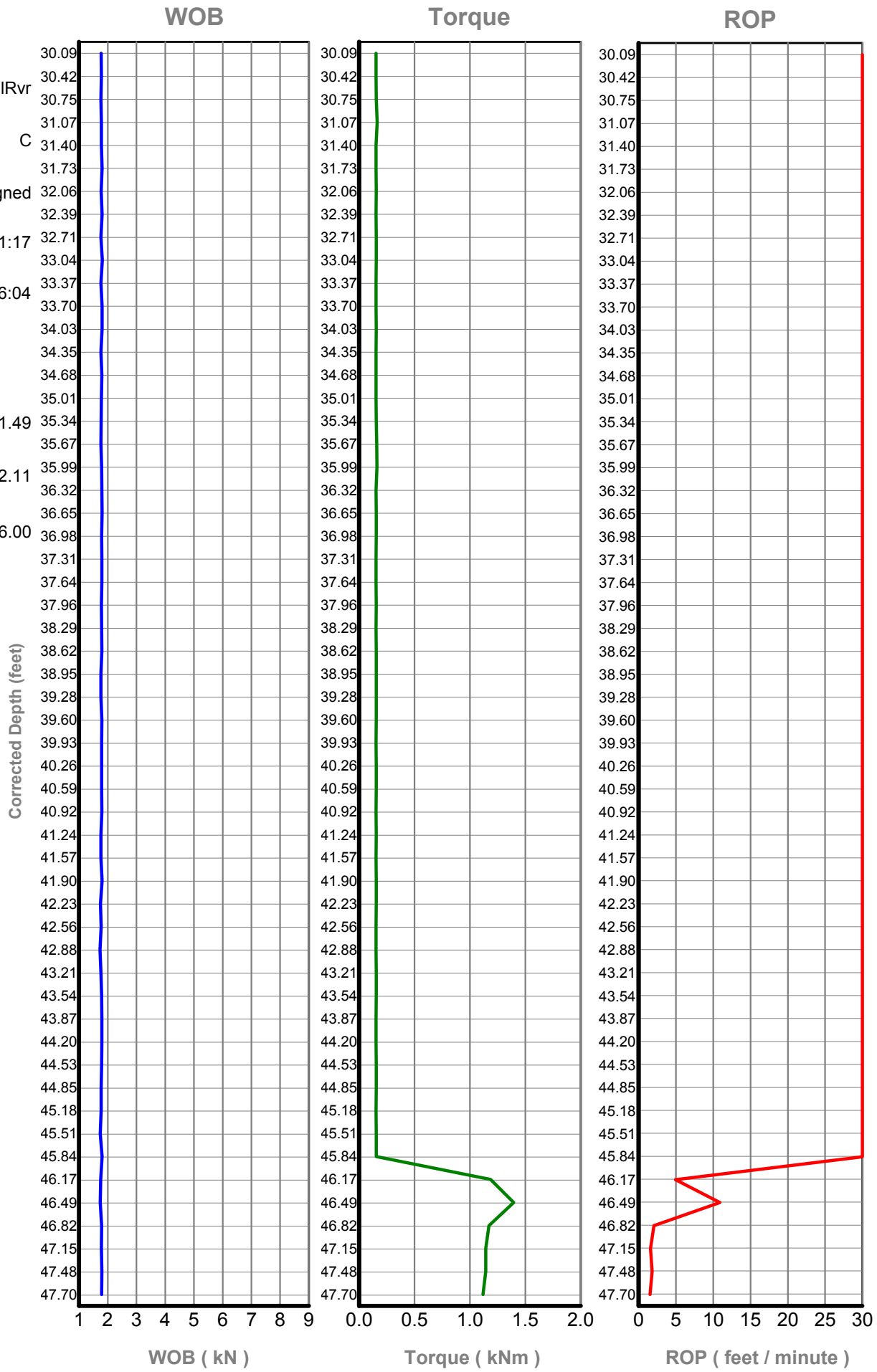
**End Date:**
4/26/2015 21:26:04

**Operator Note:**
'6 6.0 c Auto Complete'

**Northing:**
365,771.49

**Easting:**
249,812.11

**Tide (feet):**
6.00



## Hole: H219 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 21:17:14 | 36.09 | 30.09 | 508 | 1.78 | 0.15 | 27.8 |
| 4/26/2015 21:17:15 | 36.42 | 30.42 | 514 | 1.75 | 0.15 | 28.1 |
| 4/26/2015 21:17:16 | 36.75 | 30.75 | 506 | 1.77 | 0.15 | 27.7 |
| 4/26/2015 21:17:16 | 37.07 | 31.07 | 506 | 1.78 | 0.15 | 27.7 |
| 4/26/2015 21:17:17 | 37.40 | 31.40 | 511 | 1.79 | 0.15 | 27.9 |
| 4/26/2015 21:17:18 | 37.73 | 31.73 | 508 | 1.77 | 0.15 | 27.8 |
| 4/26/2015 21:17:18 | 38.06 | 32.06 | 508 | 1.79 | 0.15 | 27.8 |
| 4/26/2015 21:17:19 | 38.39 | 32.39 | 509 | 1.74 | 0.15 | 27.8 |
| 4/26/2015 21:17:20 | 38.71 | 32.71 | 509 | 1.76 | 0.15 | 27.8 |
| 4/26/2015 21:17:20 | 39.04 | 33.04 | 508 | 1.74 | 0.15 | 27.8 |
| 4/26/2015 21:17:21 | 39.37 | 33.37 | 510 | 1.74 | 0.15 | 27.9 |
| 4/26/2015 21:17:22 | 39.70 | 33.70 | 516 | 1.76 | 0.15 | 28.2 |
| 4/26/2015 21:17:22 | 40.03 | 34.03 | 510 | 1.79 | 0.15 | 27.9 |
| 4/26/2015 21:17:24 | 40.35 | 34.35 | 515 | 1.76 | 0.15 | 28.1 |
| 4/26/2015 21:17:24 | 40.68 | 34.68 | 524 | 1.76 | 0.15 | 28.6 |
| 4/26/2015 21:17:25 | 41.01 | 35.01 | 515 | 1.77 | 0.15 | 28.1 |
| 4/26/2015 21:17:26 | 41.34 | 35.34 | 518 | 1.76 | 0.15 | 28.3 |
| 4/26/2015 21:17:26 | 41.67 | 35.67 | 518 | 1.79 | 0.15 | 28.3 |
| 4/26/2015 21:17:27 | 41.99 | 35.99 | 512 | 1.74 | 0.15 | 28.0 |
| 4/26/2015 21:17:28 | 42.32 | 36.32 | 517 | 1.76 | 0.15 | 28.3 |
| 4/26/2015 21:17:28 | 42.65 | 36.65 | 515 | 1.76 | 0.15 | 28.1 |
| 4/26/2015 21:17:29 | 42.98 | 36.98 | 512 | 1.76 | 0.15 | 28.0 |
| 4/26/2015 21:17:30 | 43.31 | 37.31 | 514 | 1.72 | 0.15 | 28.1 |
| 4/26/2015 21:17:30 | 43.64 | 37.64 | 512 | 1.77 | 0.15 | 28.0 |
| 4/26/2015 21:17:31 | 43.96 | 37.96 | 511 | 1.76 | 0.15 | 28.0 |
| 4/26/2015 21:17:32 | 44.29 | 38.29 | 512 | 1.79 | 0.15 | 28.0 |
| 4/26/2015 21:17:32 | 44.62 | 38.62 | 506 | 1.76 | 0.15 | 27.7 |
| 4/26/2015 21:17:33 | 44.95 | 38.95 | 506 | 1.76 | 0.15 | 27.7 |
| 4/26/2015 21:17:34 | 45.28 | 39.28 | 515 | 1.76 | 0.15 | 28.2 |
| 4/26/2015 21:17:35 | 45.60 | 39.60 | 509 | 1.72 | 0.15 | 27.8 |
| 4/26/2015 21:17:35 | 45.93 | 39.93 | 509 | 1.78 | 0.15 | 27.8 |
| 4/26/2015 21:17:36 | 46.26 | 40.26 | 503 | 1.78 | 0.15 | 27.5 |
| 4/26/2015 21:17:37 | 46.59 | 40.59 | 503 | 1.76 | 0.15 | 27.5 |
| 4/26/2015 21:17:37 | 46.92 | 40.92 | 507 | 1.80 | 0.15 | 27.7 |
| 4/26/2015 21:17:38 | 47.24 | 41.24 | 507 | 1.73 | 0.15 | 27.7 |
| 4/26/2015 21:17:39 | 47.57 | 41.57 | 507 | 1.75 | 0.15 | 27.7 |
| 4/26/2015 21:17:39 | 47.90 | 41.90 | 505 | 1.78 | 0.15 | 27.6 |
| 4/26/2015 21:17:40 | 48.23 | 42.23 | 515 | 1.74 | 0.15 | 28.2 |
| 4/26/2015 21:17:41 | 48.56 | 42.56 | 503 | 1.76 | 0.15 | 27.5 |
| 4/26/2015 21:17:41 | 48.88 | 42.88 | 503 | 1.76 | 0.15 | 27.5 |
| 4/26/2015 21:17:42 | 49.21 | 43.21 | 514 | 1.79 | 0.15 | 28.1 |
| 4/26/2015 21:17:43 | 49.54 | 43.54 | 512 | 1.76 | 0.15 | 28.0 |
| 4/26/2015 21:17:43 | 49.87 | 43.87 | 508 | 1.75 | 0.15 | 27.8 |
| 4/26/2015 21:17:45 | 50.20 | 44.20 | 514 | 1.78 | 0.15 | 28.1 |
| 4/26/2015 21:17:45 | 50.53 | 44.53 | 512 | 2.06 | 0.15 | 28.0 |
| 4/26/2015 21:17:46 | 50.85 | 44.85 | 512 | 1.78 | 0.15 | 28.0 |
| 4/26/2015 21:17:47 | 51.18 | 45.18 | 501 | 1.79 | 0.15 | 27.4 |
| 4/26/2015 21:17:47 | 51.51 | 45.51 | 504 | 1.76 | 0.15 | 27.6 |
| 4/26/2015 21:17:48 | 51.84 | 45.84 | 505 | 1.77 | 0.15 | 27.6 |
| 4/26/2015 21:18:11 | 52.17 | 46.17 | 26 | 1.79 | 1.18 | 1.4 |
| 4/26/2015 21:18:15 | 52.49 | 46.49 | 0 | 1.77 | 1.37 | 0.0 |
| 4/26/2015 21:18:25 | 52.82 | 46.82 | 20 | 1.78 | 1.19 | 1.1 |
| 4/26/2015 21:18:40 | 53.15 | 47.15 | 26 | 1.77 | 1.08 | 1.4 |
| 4/26/2015 21:18:52 | 53.48 | 47.48 | 29 | 1.77 | 1.15 | 1.6 |
| 4/26/2015 21:18:56 | 53.59 | 47.59 | 29 | 1.77 | 1.13 | 1.6 |

## H219 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 21:15:29

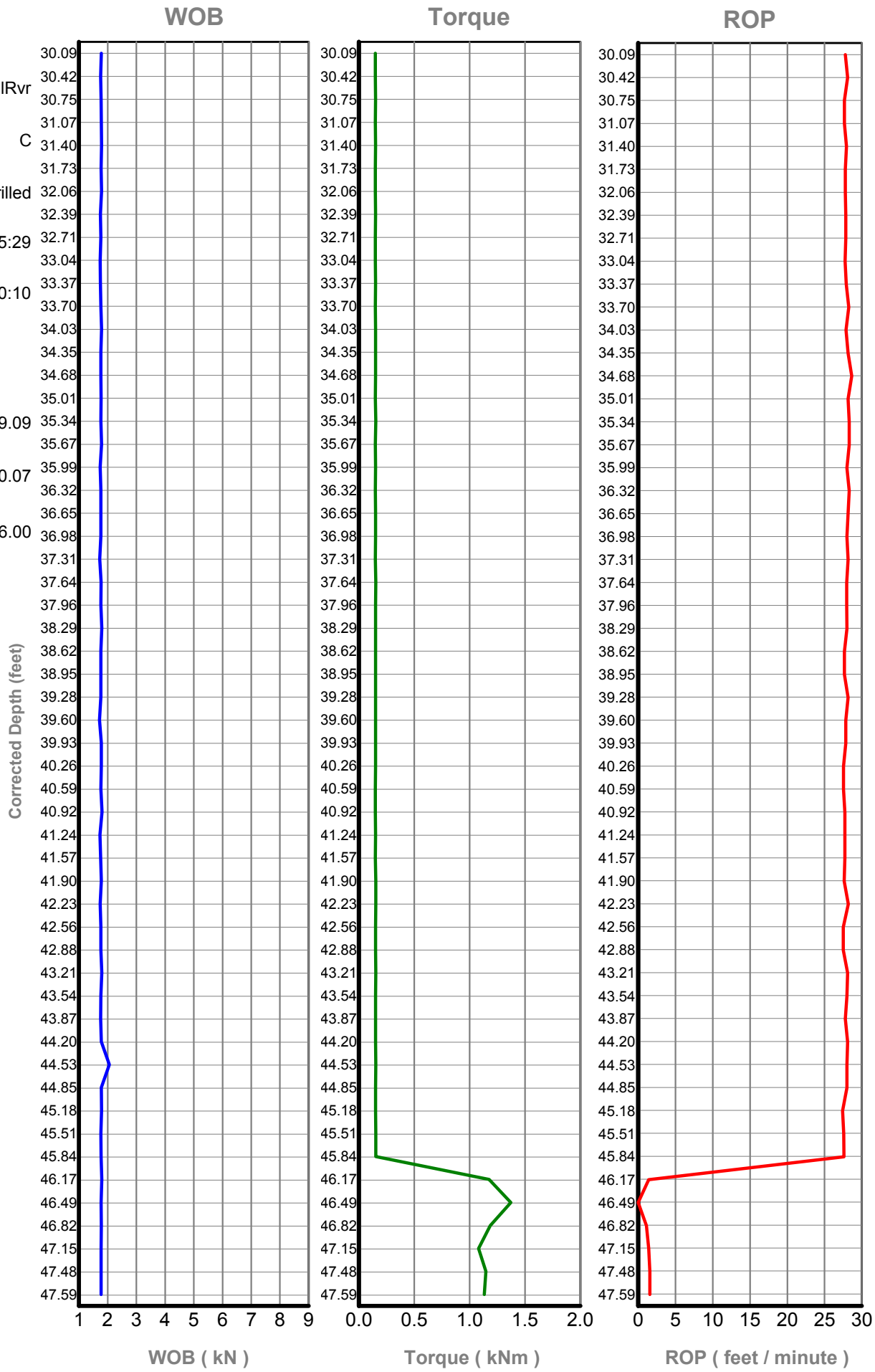
**End Date:**
4/26/2015 21:20:10

**Operator Note:**
'6 6.0 c Auto Complete'

**Northing:**
365,819.09

**Easting:**
249,870.07

**Tide (feet):**
6.00



## Hole: H22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 23:16:05 | 32.48 | 30.08 | 1,012 | 0.18 | 0.32 | 55.3 |
| 4/25/2015 23:16:05 | 32.81 | 30.41 | 1,012 | 0.18 | 0.32 | 55.3 |
| 4/25/2015 23:16:05 | 33.14 | 30.74 | 985 | 0.18 | 0.32 | 53.9 |
| 4/25/2015 23:16:06 | 33.46 | 31.06 | 985 | 0.18 | 0.32 | 53.9 |
| 4/25/2015 23:16:06 | 33.79 | 31.39 | 985 | 0.18 | 0.32 | 53.9 |
| 4/25/2015 23:16:06 | 34.12 | 31.72 | 1,004 | 0.18 | 0.32 | 54.9 |
| 4/25/2015 23:16:07 | 34.45 | 32.05 | 1,013 | 0.18 | 0.31 | 55.4 |
| 4/25/2015 23:16:07 | 34.78 | 32.38 | 1,013 | 0.18 | 0.31 | 55.4 |
| 4/25/2015 23:16:07 | 35.11 | 32.71 | 1,015 | 0.16 | 0.32 | 55.5 |
| 4/25/2015 23:16:08 | 35.43 | 33.03 | 1,007 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:08 | 35.76 | 33.36 | 1,007 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:08 | 36.09 | 33.69 | 1,028 | 0.18 | 0.32 | 56.2 |
| 4/25/2015 23:16:09 | 36.42 | 34.02 | 1,008 | 0.18 | 0.32 | 55.1 |
| 4/25/2015 23:16:10 | 36.75 | 34.35 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:10 | 37.07 | 34.67 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:10 | 37.40 | 35.00 | 1,006 | 0.18 | 0.33 | 55.0 |
| 4/25/2015 23:16:11 | 37.73 | 35.33 | 1,003 | 0.18 | 0.32 | 54.8 |
| 4/25/2015 23:16:11 | 38.06 | 35.66 | 1,003 | 0.18 | 0.32 | 54.8 |
| 4/25/2015 23:16:11 | 38.39 | 35.99 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:12 | 38.71 | 36.31 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:12 | 39.04 | 36.64 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/25/2015 23:16:12 | 39.37 | 36.97 | 1,012 | 0.18 | 0.32 | 55.3 |
| 4/25/2015 23:16:13 | 39.70 | 37.30 | 1,012 | 0.18 | 0.32 | 55.3 |
| 4/25/2015 23:16:13 | 40.03 | 37.63 | 1,012 | 0.18 | 0.32 | 55.3 |
| 4/25/2015 23:16:13 | 40.35 | 37.95 | 1,026 | 0.17 | 0.32 | 56.1 |
| 4/25/2015 23:16:14 | 40.68 | 38.28 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:16:14 | 41.01 | 38.61 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:16:14 | 41.34 | 38.94 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:16:15 | 41.67 | 39.27 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:16:15 | 41.99 | 39.59 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:16:15 | 42.32 | 39.92 | 1,023 | 0.18 | 0.31 | 56.0 |
| 4/25/2015 23:16:16 | 42.65 | 40.25 | 1,020 | 0.18 | 0.31 | 55.8 |
| 4/25/2015 23:16:16 | 42.98 | 40.58 | 1,020 | 0.18 | 0.31 | 55.8 |
| 4/25/2015 23:16:16 | 43.31 | 40.91 | 1,020 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 23:16:17 | 43.64 | 41.24 | 1,012 | 0.17 | 0.32 | 55.3 |
| 4/25/2015 23:16:17 | 43.96 | 41.56 | 1,012 | 0.17 | 0.32 | 55.3 |
| 4/25/2015 23:16:17 | 44.29 | 41.89 | 1,021 | 0.41 | 0.32 | 55.8 |
| 4/25/2015 23:16:18 | 44.62 | 42.22 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 23:16:19 | 44.95 | 42.55 | 1,021 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 23:16:19 | 45.28 | 42.88 | 991 | 0.16 | 0.36 | 54.2 |
| 4/25/2015 23:17:27 | 45.60 | 43.20 | 75 | 5.59 | 0.39 | 4.1 |
| 4/25/2015 23:17:30 | 45.93 | 43.53 | 55 | 3.68 | 0.37 | 3.0 |
| 4/25/2015 23:17:39 | 46.26 | 43.86 | 5 | 2.53 | 0.35 | 0.3 |
| 4/25/2015 23:17:41 | 46.59 | 44.19 | 200 | 8.15 | 0.41 | 10.9 |
| 4/25/2015 23:17:46 | 46.92 | 44.52 | 22 | 4.20 | 0.37 | 1.2 |
| 4/25/2015 23:18:02 | 47.24 | 44.84 | 47 | 6.11 | 0.39 | 2.6 |
| 4/25/2015 23:18:05 | 47.57 | 45.17 | 121 | 5.25 | 0.39 | 6.6 |
| 4/25/2015 23:18:06 | 47.90 | 45.50 | 201 | 2.79 | 0.36 | 11.0 |
| 4/25/2015 23:18:26 | 48.23 | 45.83 | 0 | 2.69 | 0.36 | 0.0 |
| 4/25/2015 23:18:55 | 48.56 | 46.16 | 49 | 3.75 | 0.39 | 2.7 |
| 4/25/2015 23:18:59 | 48.88 | 46.48 | 81 | 3.86 | 0.38 | 4.4 |
| 4/25/2015 23:19:01 | 49.21 | 46.81 | 107 | 2.84 | 0.37 | 5.8 |
| 4/25/2015 23:19:08 | 49.54 | 47.14 | 115 | 2.88 | 0.37 | 6.3 |
| 4/25/2015 23:19:09 | 49.87 | 47.47 | 226 | 2.69 | 0.38 | 12.3 |
| 4/25/2015 23:19:11 | 50.20 | 47.80 | 249 | 2.85 | 0.38 | 13.6 |
| 4/25/2015 23:19:14 | 50.53 | 48.13 | 101 | 4.05 | 0.40 | 5.5 |
| 4/25/2015 23:19:17 | 50.85 | 48.45 | 142 | 2.83 | 0.39 | 7.7 |
| 4/25/2015 23:19:19 | 51.18 | 48.78 | 173 | 2.72 | 0.38 | 9.5 |
| 4/25/2015 23:19:20 | 51.51 | 49.11 | 202 | 2.66 | 0.37 | 11.0 |
| 4/25/2015 23:19:21 | 51.84 | 49.44 | 269 | 3.05 | 0.37 | 14.7 |
| 4/25/2015 23:19:22 | 52.17 | 49.77 | 297 | 3.89 | 0.38 | 16.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 23:19:24 | 52.49 | 50.09 | 279 | 3.13 | 0.37 | 15.3 |
| 4/25/2015 | 23:19:25 | 52.82 | 50.42 | 321 | 2.89 | 0.37 | 17.5 |
| 4/25/2015 | 23:19:26 | 53.15 | 50.75 | 336 | 2.97 | 0.38 | 18.4 |
| 4/25/2015 | 23:19:28 | 53.48 | 51.08 | 263 | 3.11 | 0.38 | 14.4 |
| 4/25/2015 | 23:19:30 | 53.81 | 51.41 | 160 | 3.28 | 0.39 | 8.8 |
| 4/25/2015 | 23:19:33 | 54.13 | 51.73 | 110 | 3.33 | 0.39 | 6.0 |
| 4/25/2015 | 23:19:36 | 54.46 | 52.06 | 127 | 3.21 | 0.39 | 7.0 |
| 4/25/2015 | 23:19:44 | 54.79 | 52.39 | 52 | 3.16 | 0.39 | 2.8 |
| 4/25/2015 | 23:19:49 | 55.12 | 52.72 | 72 | 3.28 | 0.39 | 3.9 |
| 4/25/2015 | 23:19:51 | 55.45 | 53.05 | 95 | 2.98 | 0.37 | 5.2 |
| 4/25/2015 | 23:19:52 | 55.77 | 53.37 | 170 | 3.12 | 0.37 | 9.3 |
| 4/25/2015 | 23:19:53 | 56.10 | 53.70 | 283 | 3.41 | 0.37 | 15.5 |
| 4/25/2015 | 23:19:58 | 56.43 | 54.03 | 73 | 3.78 | 0.38 | 4.0 |
| 4/25/2015 | 23:20:00 | 56.76 | 54.36 | 208 | 5.31 | 0.38 | 11.4 |
| 4/25/2015 | 23:20:03 | 57.09 | 54.69 | 118 | 6.14 | 0.40 | 6.5 |
| 4/25/2015 | 23:20:51 | 57.41 | 55.01 | 41 | 2.91 | 0.40 | 2.2 |
| 4/25/2015 | 23:20:58 | 57.73 | 55.33 | 49 | 3.05 | 0.40 | 2.7 |

## H22 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 23:13:13

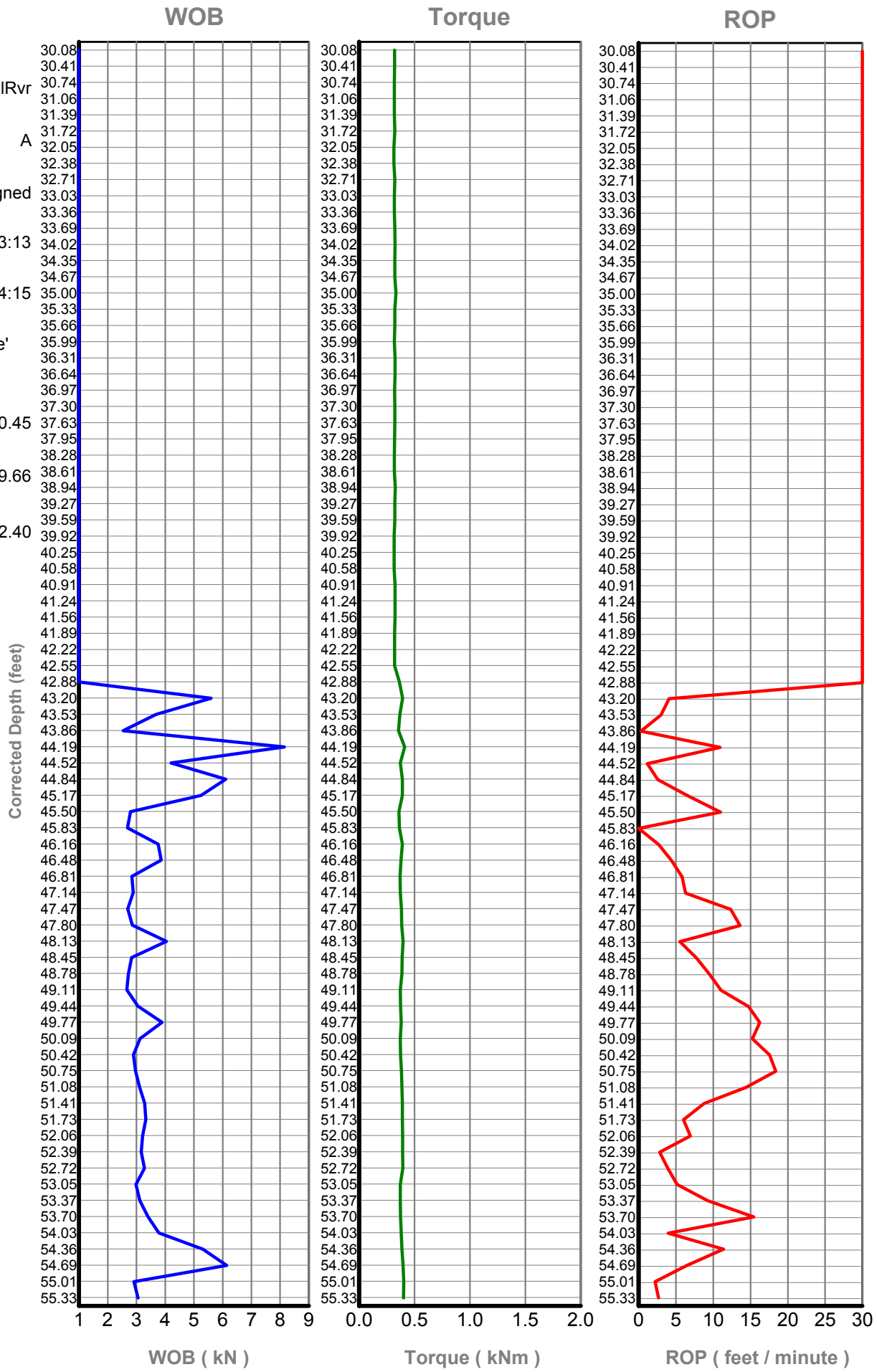
**End Date:**
4/25/2015 23:24:15

**Operator Note:**
'2.4 2.7 b Auto Complete'

**Northing:**
366,590.45

**Easting:**
250,229.66

**Tide (feet):**
2.40



## Hole: H220 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:00:10 | 31.50 | 30.30 | 1,117 | 0.31 | 0.30 | 61.1 |
| 4/26/2015 15:00:11 | 31.82 | 30.62 | 1,117 | 0.31 | 0.30 | 61.1 |
| 4/26/2015 15:00:11 | 32.15 | 30.95 | 1,111 | 0.31 | 0.31 | 60.8 |
| 4/26/2015 15:00:11 | 32.48 | 31.28 | 1,118 | 0.30 | 0.30 | 61.1 |
| 4/26/2015 15:00:12 | 32.81 | 31.61 | 1,118 | 0.30 | 0.30 | 61.1 |
| 4/26/2015 15:00:12 | 33.14 | 31.94 | 1,111 | 0.29 | 0.32 | 60.8 |
| 4/26/2015 15:00:12 | 33.46 | 32.26 | 1,123 | 0.29 | 0.30 | 61.4 |
| 4/26/2015 15:00:13 | 33.79 | 32.59 | 1,123 | 0.29 | 0.30 | 61.4 |
| 4/26/2015 15:00:13 | 34.12 | 32.92 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:00:13 | 34.45 | 33.25 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:00:13 | 34.78 | 33.58 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 15:00:14 | 35.11 | 33.91 | 1,104 | 0.30 | 0.30 | 60.3 |
| 4/26/2015 15:00:14 | 35.43 | 34.23 | 1,104 | 0.30 | 0.30 | 60.3 |
| 4/26/2015 15:00:14 | 35.76 | 34.56 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 15:00:15 | 36.09 | 34.89 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 15:00:15 | 36.42 | 35.22 | 1,107 | 0.29 | 0.30 | 60.5 |
| 4/26/2015 15:00:15 | 36.75 | 35.55 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 15:00:16 | 37.07 | 35.87 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 15:00:16 | 37.40 | 36.20 | 1,104 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 15:00:16 | 37.73 | 36.53 | 1,107 | 0.30 | 0.30 | 60.5 |
| 4/26/2015 15:00:17 | 38.06 | 36.86 | 1,107 | 0.30 | 0.30 | 60.5 |
| 4/26/2015 15:00:17 | 38.39 | 37.19 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:00:17 | 38.71 | 37.51 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:00:17 | 39.04 | 37.84 | 1,104 | 0.30 | 0.30 | 60.4 |
| 4/26/2015 15:00:18 | 39.37 | 38.17 | 1,100 | 0.31 | 0.31 | 60.2 |
| 4/26/2015 15:00:19 | 39.70 | 38.50 | 1,100 | 0.31 | 0.31 | 60.2 |
| 4/26/2015 15:00:19 | 40.03 | 38.83 | 1,113 | 0.30 | 0.31 | 60.9 |
| 4/26/2015 15:00:19 | 40.35 | 39.15 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:00:20 | 40.68 | 39.48 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:00:20 | 41.01 | 39.81 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:00:20 | 41.34 | 40.14 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:00:20 | 41.67 | 40.47 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:00:21 | 41.99 | 40.79 | 1,100 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 15:00:21 | 42.32 | 41.12 | 1,100 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 15:00:21 | 42.65 | 41.45 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 15:00:22 | 42.98 | 41.78 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 15:00:22 | 43.31 | 42.11 | 1,092 | 0.29 | 0.32 | 59.7 |
| 4/26/2015 15:00:25 | 43.64 | 42.44 | 65 | 3.89 | 0.36 | 3.5 |
| 4/26/2015 15:00:33 | 43.96 | 42.76 | 24 | 3.95 | 0.37 | 1.3 |
| 4/26/2015 15:00:39 | 44.29 | 43.09 | 0 | 4.12 | 0.39 | 0.0 |
| 4/26/2015 15:00:44 | 44.62 | 43.42 | 72 | 3.24 | 0.40 | 3.9 |
| 4/26/2015 15:00:50 | 44.95 | 43.75 | 66 | 2.98 | 0.39 | 3.6 |
| 4/26/2015 15:00:52 | 45.28 | 44.08 | 110 | 3.62 | 0.38 | 6.0 |
| 4/26/2015 15:00:53 | 45.60 | 44.40 | 216 | 3.28 | 0.37 | 11.8 |
| 4/26/2015 15:00:58 | 45.93 | 44.73 | 0 | 3.56 | 0.36 | 0.0 |
| 4/26/2015 15:01:00 | 46.26 | 45.06 | 91 | 4.44 | 0.38 | 5.0 |
| 4/26/2015 15:01:02 | 46.59 | 45.39 | 156 | 3.13 | 0.38 | 8.5 |
| 4/26/2015 15:01:04 | 46.92 | 45.72 | 178 | 3.14 | 0.38 | 9.7 |
| 4/26/2015 15:01:06 | 47.24 | 46.04 | 182 | 2.46 | 0.38 | 9.9 |
| 4/26/2015 15:01:14 | 47.57 | 46.37 | 53 | 3.54 | 0.39 | 2.9 |
| 4/26/2015 15:01:21 | 47.90 | 46.70 | 40 | 2.91 | 0.39 | 2.2 |
| 4/26/2015 15:01:29 | 48.23 | 47.03 | 40 | 2.70 | 0.39 | 2.2 |
| 4/26/2015 15:01:38 | 48.56 | 47.36 | 38 | 2.90 | 0.40 | 2.1 |
| 4/26/2015 15:01:39 | 48.61 | 47.41 | 37 | 2.71 | 0.39 | 2.0 |

## H220 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 14:59:19

**End Date:**
4/26/2015 15:02:34

**Operator Note:**
'1.2 0.9 b Auto Complete'

**Northing:**
365,883.57

**Easting:**
249,944.90

**Tide (feet):**
1.20



## Hole: H221 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:04:09 | 31.50 | 30.30 | 1,126 | 0.30 | 0.31 | 61.6 |
| 4/26/2015 15:04:10 | 31.82 | 30.62 | 1,131 | 0.29 | 0.30 | 61.8 |
| 4/26/2015 15:04:10 | 32.15 | 30.95 | 1,131 | 0.29 | 0.30 | 61.8 |
| 4/26/2015 15:04:10 | 32.48 | 31.28 | 1,130 | 0.30 | 0.31 | 61.8 |
| 4/26/2015 15:04:11 | 32.81 | 31.61 | 1,130 | 0.30 | 0.31 | 61.8 |
| 4/26/2015 15:04:11 | 33.14 | 31.94 | 1,116 | 0.30 | 0.31 | 61.0 |
| 4/26/2015 15:04:11 | 33.46 | 32.26 | 1,110 | 0.29 | 0.30 | 60.7 |
| 4/26/2015 15:04:12 | 33.79 | 32.59 | 1,110 | 0.29 | 0.30 | 60.7 |
| 4/26/2015 15:04:12 | 34.12 | 32.92 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 15:04:12 | 34.45 | 33.25 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 15:04:12 | 34.78 | 33.58 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 15:04:13 | 35.11 | 33.91 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 15:04:13 | 35.43 | 34.23 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 15:04:13 | 35.76 | 34.56 | 1,101 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 15:04:14 | 36.09 | 34.89 | 1,107 | 0.31 | 0.30 | 60.5 |
| 4/26/2015 15:04:14 | 36.42 | 35.22 | 1,107 | 0.31 | 0.30 | 60.5 |
| 4/26/2015 15:04:14 | 36.75 | 35.55 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:04:15 | 37.07 | 35.87 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:04:15 | 37.40 | 36.20 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:04:15 | 37.73 | 36.53 | 1,095 | 0.29 | 0.30 | 59.9 |
| 4/26/2015 15:04:16 | 38.06 | 36.86 | 1,095 | 0.29 | 0.30 | 59.9 |
| 4/26/2015 15:04:16 | 38.39 | 37.19 | 1,105 | 0.31 | 0.31 | 60.4 |
| 4/26/2015 15:04:16 | 38.71 | 37.51 | 1,102 | 0.31 | 0.30 | 60.2 |
| 4/26/2015 15:04:17 | 39.04 | 37.84 | 1,102 | 0.31 | 0.30 | 60.2 |
| 4/26/2015 15:04:17 | 39.37 | 38.17 | 1,102 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 15:04:18 | 39.70 | 38.50 | 1,102 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 15:04:18 | 40.03 | 38.83 | 1,095 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 15:04:18 | 40.35 | 39.15 | 1,111 | 0.30 | 0.30 | 60.8 |
| 4/26/2015 15:04:19 | 40.68 | 39.48 | 1,111 | 0.30 | 0.30 | 60.8 |
| 4/26/2015 15:04:19 | 41.01 | 39.81 | 1,101 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 15:04:19 | 41.34 | 40.14 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 15:04:20 | 41.67 | 40.47 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 15:04:20 | 41.99 | 40.79 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 15:04:20 | 42.32 | 41.12 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 15:04:20 | 42.65 | 41.45 | 1,102 | 0.30 | 0.31 | 60.3 |
| 4/26/2015 15:04:21 | 42.98 | 41.78 | 1,099 | 0.31 | 0.31 | 60.1 |
| 4/26/2015 15:04:21 | 43.31 | 42.11 | 1,099 | 0.31 | 0.31 | 60.1 |
| 4/26/2015 15:04:21 | 43.64 | 42.44 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 15:04:22 | 43.96 | 42.76 | 1,102 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 15:04:22 | 44.29 | 43.09 | 1,102 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 15:04:22 | 44.62 | 43.42 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 15:04:23 | 44.95 | 43.75 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 15:04:23 | 45.28 | 44.08 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 15:04:23 | 45.60 | 44.40 | 1,096 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 15:04:24 | 45.93 | 44.73 | 1,096 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 15:04:24 | 46.26 | 45.06 | 1,093 | 0.29 | 0.33 | 59.8 |
| 4/26/2015 15:04:26 | 46.59 | 45.39 | 191 | 2.32 | 0.33 | 10.5 |
| 4/26/2015 15:04:27 | 46.92 | 45.72 | 55 | 2.15 | 0.31 | 3.0 |
| 4/26/2015 15:04:31 | 47.24 | 46.04 | 24 | 3.21 | 0.36 | 1.3 |
| 4/26/2015 15:04:34 | 47.57 | 46.37 | 167 | 2.88 | 0.37 | 9.1 |
| 4/26/2015 15:04:34 | 47.90 | 46.70 | 159 | 2.87 | 0.37 | 8.7 |
| 4/26/2015 15:04:46 | 48.23 | 47.03 | 0 | 3.34 | 0.38 | 0.0 |
| 4/26/2015 15:04:49 | 48.56 | 47.36 | 124 | 3.45 | 0.38 | 6.8 |
| 4/26/2015 15:04:50 | 48.88 | 47.68 | 209 | 4.41 | 0.37 | 11.5 |
| 4/26/2015 15:04:52 | 49.21 | 48.01 | 228 | 2.69 | 0.39 | 12.4 |
| 4/26/2015 15:05:00 | 49.54 | 48.34 | 43 | 2.65 | 0.40 | 2.4 |
| 4/26/2015 15:05:07 | 49.87 | 48.67 | 51 | 2.70 | 0.40 | 2.8 |
| 4/26/2015 15:05:15 | 50.20 | 49.00 | 56 | 3.47 | 0.39 | 3.1 |
| 4/26/2015 15:05:16 | 50.35 | 49.15 | 72 | 3.06 | 0.39 | 3.9 |

## H221 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:02:37

**End Date:**
4/26/2015 15:06:19

**Operator Note:**
'1.2 1.1 b Auto Complete'

**Northing:**
365,920.54

**Easting:**
249,991.91

**Tide (feet):**
1.20



## Hole: H222 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:00:47 | 31.50 | 30.30 | 660 | 1.75 | 0.27 | 36.1 |
| 4/26/2015 15:00:48 | 31.82 | 30.62 | 653 | 1.77 | 0.27 | 35.7 |
| 4/26/2015 15:00:49 | 32.15 | 30.95 | 649 | 1.76 | 0.27 | 35.5 |
| 4/26/2015 15:00:50 | 32.48 | 31.28 | 656 | 1.76 | 0.27 | 35.9 |
| 4/26/2015 15:00:50 | 32.81 | 31.61 | 647 | 1.74 | 0.27 | 35.4 |
| 4/26/2015 15:00:51 | 33.14 | 31.94 | 650 | 1.77 | 0.27 | 35.6 |
| 4/26/2015 15:00:51 | 33.46 | 32.26 | 650 | 1.74 | 0.28 | 35.6 |
| 4/26/2015 15:00:52 | 33.79 | 32.59 | 654 | 1.76 | 0.28 | 35.8 |
| 4/26/2015 15:00:52 | 34.12 | 32.92 | 648 | 1.75 | 0.28 | 35.4 |
| 4/26/2015 15:00:53 | 34.45 | 33.25 | 651 | 1.74 | 0.27 | 35.6 |
| 4/26/2015 15:00:53 | 34.78 | 33.58 | 647 | 1.74 | 0.28 | 35.4 |
| 4/26/2015 15:00:54 | 35.11 | 33.91 | 650 | 1.75 | 0.28 | 35.6 |
| 4/26/2015 15:00:54 | 35.43 | 34.23 | 647 | 1.75 | 0.27 | 35.4 |
| 4/26/2015 15:00:55 | 35.76 | 34.56 | 647 | 1.76 | 0.27 | 35.4 |
| 4/26/2015 15:00:55 | 36.09 | 34.89 | 646 | 1.75 | 0.27 | 35.3 |
| 4/26/2015 15:00:56 | 36.42 | 35.22 | 650 | 1.78 | 0.27 | 35.6 |
| 4/26/2015 15:00:56 | 36.75 | 35.55 | 647 | 1.76 | 0.27 | 35.4 |
| 4/26/2015 15:00:57 | 37.07 | 35.87 | 647 | 1.75 | 0.28 | 35.4 |
| 4/26/2015 15:00:57 | 37.40 | 36.20 | 647 | 1.74 | 0.27 | 35.4 |
| 4/26/2015 15:00:58 | 37.73 | 36.53 | 645 | 1.75 | 0.27 | 35.2 |
| 4/26/2015 15:00:59 | 38.06 | 36.86 | 642 | 1.74 | 0.28 | 35.1 |
| 4/26/2015 15:00:59 | 38.39 | 37.19 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 15:01:00 | 38.71 | 37.51 | 645 | 1.74 | 0.27 | 35.2 |
| 4/26/2015 15:01:01 | 39.04 | 37.84 | 642 | 1.75 | 0.28 | 35.1 |
| 4/26/2015 15:01:01 | 39.37 | 38.17 | 645 | 1.76 | 0.28 | 35.3 |
| 4/26/2015 15:01:02 | 39.70 | 38.50 | 645 | 1.75 | 0.28 | 35.3 |
| 4/26/2015 15:01:02 | 40.03 | 38.83 | 648 | 1.76 | 0.28 | 35.4 |
| 4/26/2015 15:01:03 | 40.35 | 39.15 | 645 | 1.75 | 0.28 | 35.3 |
| 4/26/2015 15:01:03 | 40.68 | 39.48 | 645 | 1.75 | 0.28 | 35.3 |
| 4/26/2015 15:01:04 | 41.01 | 39.81 | 638 | 1.76 | 0.28 | 34.9 |
| 4/26/2015 15:01:04 | 41.34 | 40.14 | 645 | 1.74 | 0.28 | 35.2 |
| 4/26/2015 15:01:05 | 41.67 | 40.47 | 642 | 1.75 | 0.27 | 35.1 |
| 4/26/2015 15:01:05 | 41.99 | 40.79 | 642 | 1.77 | 0.28 | 35.1 |
| 4/26/2015 15:01:06 | 42.32 | 41.12 | 642 | 1.80 | 0.28 | 35.1 |
| 4/26/2015 15:01:06 | 42.65 | 41.45 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 15:01:07 | 42.98 | 41.78 | 642 | 1.76 | 0.27 | 35.1 |
| 4/26/2015 15:01:08 | 43.31 | 42.11 | 639 | 1.75 | 0.28 | 34.9 |
| 4/26/2015 15:01:08 | 43.64 | 42.44 | 645 | 1.76 | 0.28 | 35.3 |
| 4/26/2015 15:01:09 | 43.96 | 42.76 | 636 | 1.72 | 0.28 | 34.8 |
| 4/26/2015 15:01:30 | 44.29 | 43.09 | 35 | 1.79 | 1.03 | 1.9 |
| 4/26/2015 15:01:42 | 44.62 | 43.42 | 28 | 1.78 | 1.01 | 1.6 |
| 4/26/2015 15:01:49 | 44.95 | 43.75 | 45 | 1.75 | 1.04 | 2.5 |
| 4/26/2015 15:01:55 | 45.28 | 44.08 | 70 | 1.77 | 1.10 | 3.8 |
| 4/26/2015 15:02:00 | 45.60 | 44.40 | 60 | 1.76 | 1.13 | 3.3 |
| 4/26/2015 15:02:05 | 45.93 | 44.73 | 70 | 1.77 | 1.11 | 3.8 |
| 4/26/2015 15:02:06 | 45.99 | 44.79 | 64 | 1.77 | 1.14 | 3.5 |

## H222 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 14:59:17

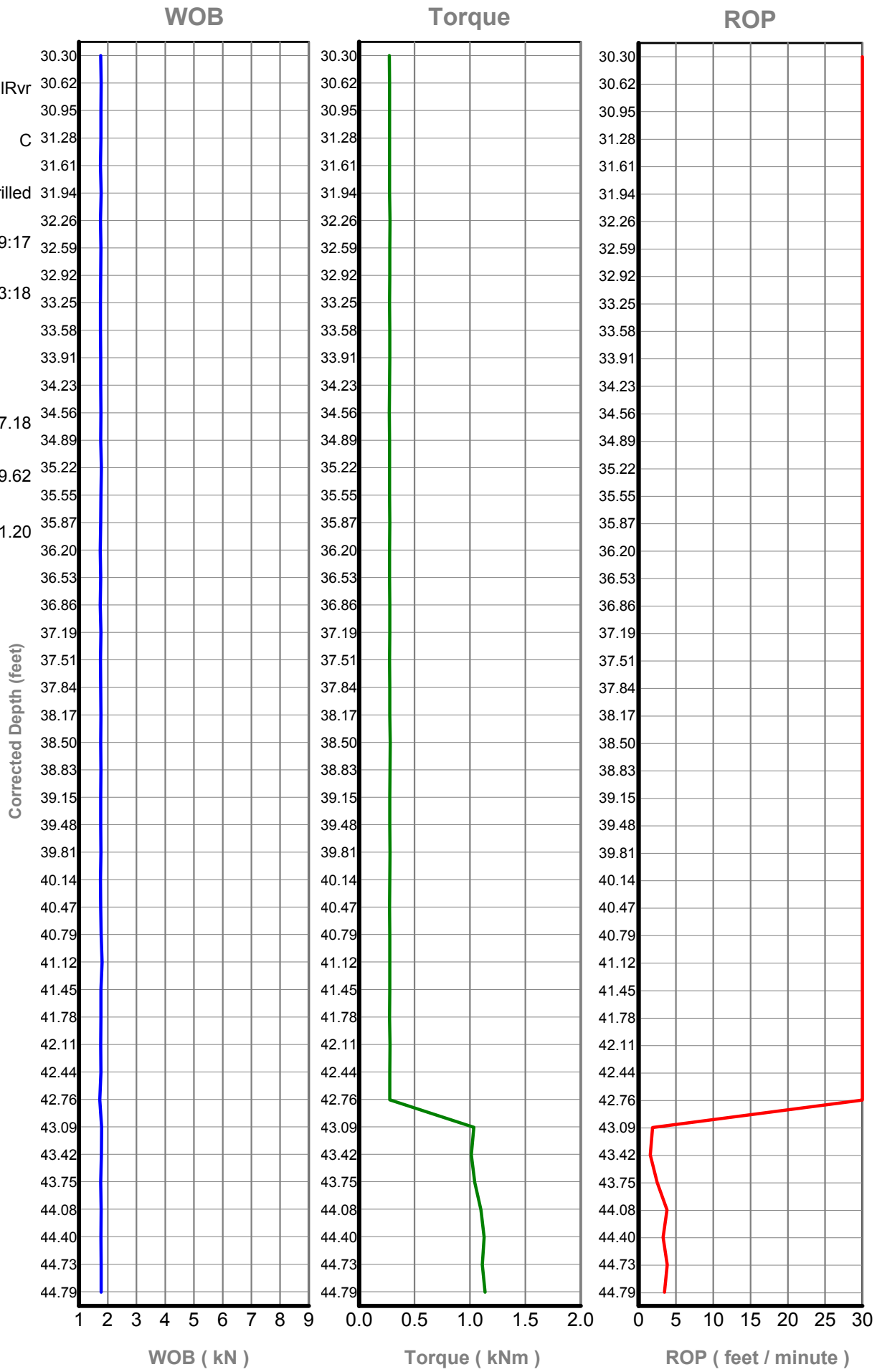
**End Date:**
4/26/2015 15:03:18

**Operator Note:**
'1.2 0.9 C Auto Complete'

**Northing:**
365,967.18

**Easting:**
250,049.62

**Tide (feet):**
1.20



## Hole: H223 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:33:23 | 33.14 | 30.24 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:33:24 | 33.46 | 30.56 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 11:33:24 | 33.79 | 30.89 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 11:33:24 | 34.12 | 31.22 | 1,066 | 0.32 | 0.32 | 58.3 |
| 4/26/2015 11:33:25 | 34.45 | 31.55 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/26/2015 11:33:25 | 34.78 | 31.88 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/26/2015 11:33:25 | 35.11 | 32.21 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/26/2015 11:33:26 | 35.43 | 32.53 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/26/2015 11:33:26 | 35.76 | 32.86 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/26/2015 11:33:26 | 36.09 | 33.19 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 11:33:27 | 36.42 | 33.52 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:33:27 | 36.75 | 33.85 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 11:33:27 | 37.07 | 34.17 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 11:33:28 | 37.40 | 34.50 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:33:29 | 37.73 | 34.83 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:33:29 | 38.06 | 35.16 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 11:33:29 | 38.39 | 35.49 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 11:33:29 | 38.71 | 35.81 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/26/2015 11:33:30 | 39.04 | 36.14 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 11:33:30 | 39.37 | 36.47 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 11:33:30 | 39.70 | 36.80 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 11:33:31 | 40.03 | 37.13 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 11:33:31 | 40.35 | 37.45 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 11:33:31 | 40.68 | 37.78 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 11:33:32 | 41.01 | 38.11 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 11:33:32 | 41.34 | 38.44 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 11:33:32 | 41.67 | 38.77 | 1,044 | 0.29 | 0.32 | 57.1 |
| 4/26/2015 11:33:33 | 41.99 | 39.09 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 11:33:33 | 42.32 | 39.42 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 11:33:33 | 42.65 | 39.75 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/26/2015 11:33:34 | 42.98 | 40.08 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 11:33:34 | 43.31 | 40.41 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 11:33:34 | 43.64 | 40.74 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 11:33:35 | 43.96 | 41.06 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/26/2015 11:33:35 | 44.29 | 41.39 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/26/2015 11:33:35 | 44.62 | 41.72 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 11:33:36 | 44.95 | 42.05 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 11:33:36 | 45.28 | 42.38 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 11:33:36 | 45.60 | 42.70 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 11:33:37 | 45.93 | 43.03 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 11:33:37 | 46.26 | 43.36 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 11:33:37 | 46.59 | 43.69 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 11:33:38 | 46.92 | 44.02 | 1,038 | 0.29 | 0.37 | 56.8 |
| 4/26/2015 11:33:46 | 47.24 | 44.34 | 0 | 2.55 | 0.39 | 0.0 |
| 4/26/2015 11:33:53 | 47.57 | 44.67 | 43 | 3.33 | 0.41 | 2.4 |
| 4/26/2015 11:34:01 | 47.90 | 45.00 | 45 | 3.37 | 0.40 | 2.5 |
| 4/26/2015 11:34:07 | 48.23 | 45.33 | 51 | 3.96 | 0.40 | 2.8 |
| 4/26/2015 11:34:14 | 48.56 | 45.66 | 61 | 4.08 | 0.40 | 3.3 |
| 4/26/2015 11:34:14 | 48.60 | 45.70 | 58 | 3.43 | 0.40 | 3.2 |

## H223 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:31:48

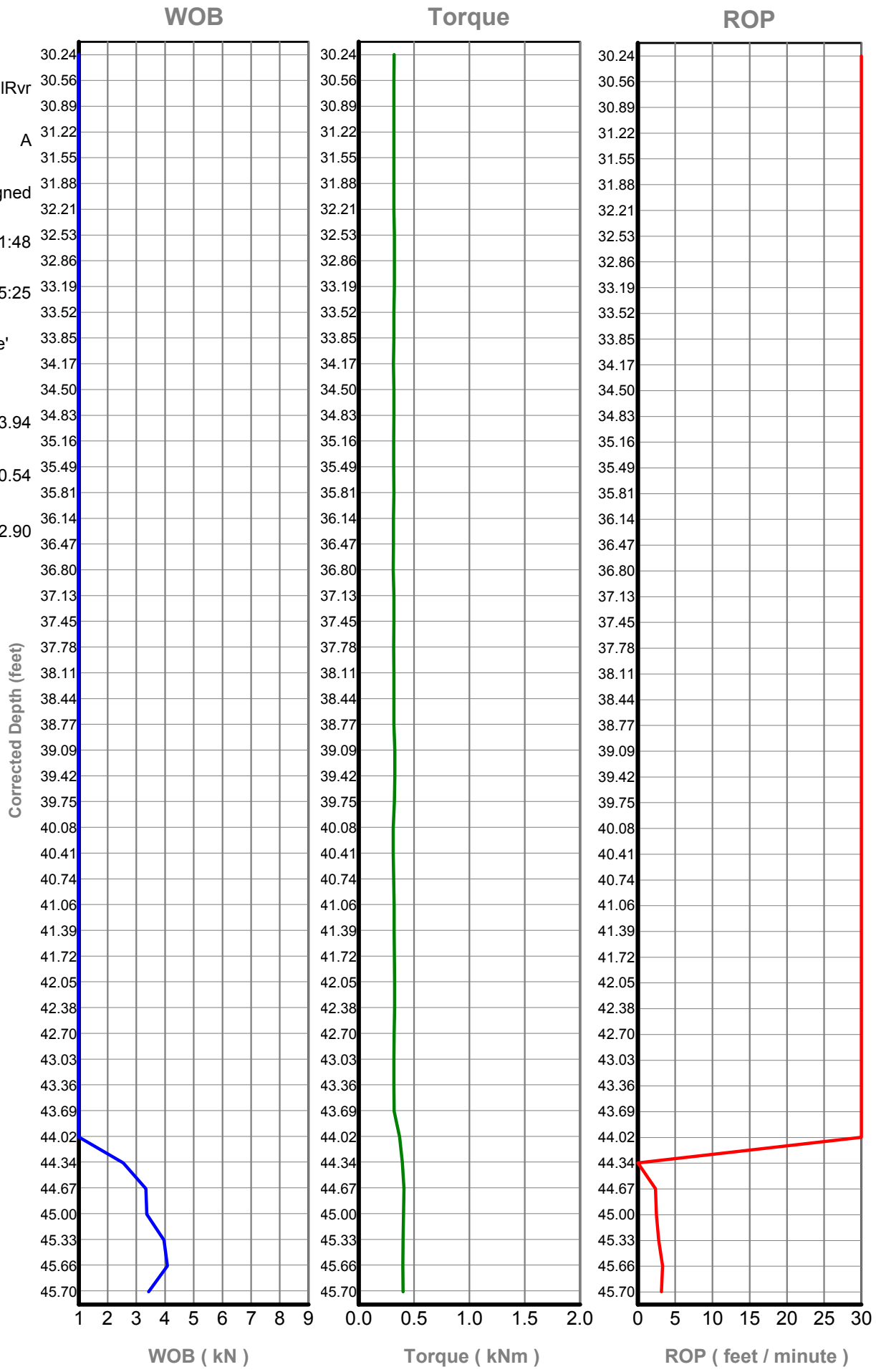
**End Date:**
4/26/2015 11:35:25

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
366,023.94

**Easting:**
250,120.54

**Tide (feet):**
2.90



## Hole: H224 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:29:26 | 33.14 | 30.14 | 982 | 0.33 | 0.32 | 53.7 |
| 4/26/2015 11:29:27 | 33.46 | 30.46 | 982 | 0.33 | 0.32 | 53.7 |
| 4/26/2015 11:29:27 | 33.79 | 30.79 | 982 | 0.33 | 0.31 | 53.7 |
| 4/26/2015 11:29:27 | 34.12 | 31.12 | 969 | 0.34 | 0.32 | 53.0 |
| 4/26/2015 11:29:28 | 34.45 | 31.45 | 969 | 0.34 | 0.32 | 53.0 |
| 4/26/2015 11:29:28 | 34.78 | 31.78 | 969 | 0.31 | 0.31 | 53.0 |
| 4/26/2015 11:29:29 | 35.11 | 32.11 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:29 | 35.43 | 32.43 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:29 | 35.76 | 32.76 | 1,021 | 0.31 | 0.32 | 55.9 |
| 4/26/2015 11:29:30 | 36.09 | 33.09 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/26/2015 11:29:30 | 36.42 | 33.42 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/26/2015 11:29:30 | 36.75 | 33.75 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 11:29:31 | 37.07 | 34.07 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:29:31 | 37.40 | 34.40 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:29:31 | 37.73 | 34.73 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 11:29:32 | 38.06 | 35.06 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 11:29:32 | 38.39 | 35.39 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 11:29:32 | 38.71 | 35.71 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:29:33 | 39.04 | 36.04 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:33 | 39.37 | 36.37 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:33 | 39.70 | 36.70 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 11:29:34 | 40.03 | 37.03 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:29:34 | 40.35 | 37.35 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:29:34 | 40.68 | 37.68 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 11:29:35 | 41.01 | 38.01 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:29:35 | 41.34 | 38.34 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:29:35 | 41.67 | 38.67 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:36 | 41.99 | 38.99 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:29:36 | 42.32 | 39.32 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:29:36 | 42.65 | 39.65 | 1,018 | 0.31 | 0.37 | 55.6 |
| 4/26/2015 11:29:37 | 42.98 | 39.98 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:29:37 | 43.31 | 40.31 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 11:29:37 | 43.64 | 40.64 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 11:29:38 | 43.96 | 40.96 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:39 | 44.29 | 41.29 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:29:39 | 44.62 | 41.62 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:29:39 | 44.95 | 41.95 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 11:29:40 | 45.28 | 42.28 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 11:29:40 | 45.60 | 42.60 | 983 | 0.31 | 0.32 | 53.8 |
| 4/26/2015 11:29:40 | 45.93 | 42.93 | 983 | 0.31 | 0.32 | 53.8 |
| 4/26/2015 11:29:41 | 46.26 | 43.26 | 987 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 11:29:41 | 46.59 | 43.59 | 987 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 11:29:41 | 46.92 | 43.92 | 987 | 0.31 | 0.32 | 54.0 |
| 4/26/2015 11:29:42 | 47.24 | 44.24 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/26/2015 11:29:42 | 47.57 | 44.57 | 1,006 | 0.31 | 0.33 | 55.0 |
| 4/26/2015 11:30:04 | 47.90 | 44.90 | 6 | 3.09 | 0.40 | 0.3 |
| 4/26/2015 11:30:13 | 48.23 | 45.23 | 38 | 3.22 | 0.40 | 2.1 |
| 4/26/2015 11:30:22 | 48.56 | 45.56 | 46 | 2.83 | 0.40 | 2.5 |
| 4/26/2015 11:30:30 | 48.88 | 45.88 | 41 | 3.23 | 0.40 | 2.2 |
| 4/26/2015 11:30:34 | 49.01 | 46.01 | 43 | 3.18 | 0.41 | 2.4 |

## H224 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:27:35

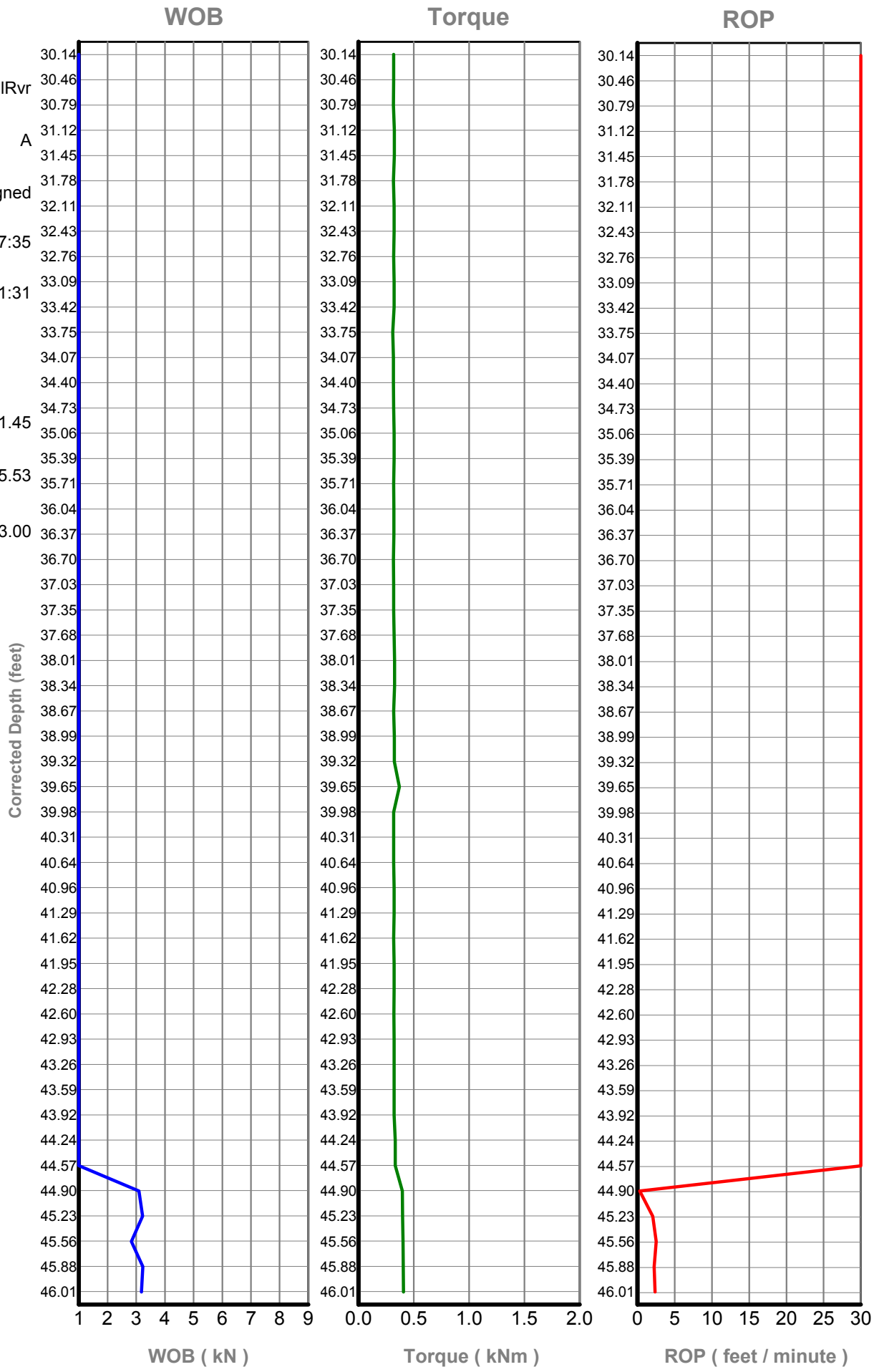
**End Date:**
4/26/2015 11:31:31

**Operator Note:**
'3 3.1 b Auto Complete'

**Northing:**
366,061.45

**Easting:**
250,165.53

**Tide (feet):**
3.00



## Hole: H225 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:32:27 | 33.14 | 30.24 | 601 | 1.79 | 0.30 | 32.9 |
| 4/26/2015 11:32:28 | 33.46 | 30.56 | 598 | 1.80 | 0.30 | 32.7 |
| 4/26/2015 11:32:29 | 33.79 | 30.89 | 604 | 1.77 | 0.30 | 33.1 |
| 4/26/2015 11:32:29 | 34.12 | 31.22 | 598 | 1.77 | 0.30 | 32.7 |
| 4/26/2015 11:32:30 | 34.45 | 31.55 | 604 | 1.79 | 0.30 | 33.1 |
| 4/26/2015 11:32:30 | 34.78 | 31.88 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:31 | 35.11 | 32.21 | 608 | 1.77 | 0.30 | 33.2 |
| 4/26/2015 11:32:31 | 35.43 | 32.53 | 601 | 1.79 | 0.30 | 32.9 |
| 4/26/2015 11:32:32 | 35.76 | 32.86 | 601 | 1.79 | 0.30 | 32.9 |
| 4/26/2015 11:32:33 | 36.09 | 33.19 | 607 | 1.77 | 0.30 | 33.2 |
| 4/26/2015 11:32:33 | 36.42 | 33.52 | 601 | 1.79 | 0.30 | 32.9 |
| 4/26/2015 11:32:34 | 36.75 | 33.85 | 604 | 1.78 | 0.30 | 33.0 |
| 4/26/2015 11:32:34 | 37.07 | 34.17 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:35 | 37.40 | 34.50 | 604 | 1.80 | 0.30 | 33.0 |
| 4/26/2015 11:32:35 | 37.73 | 34.83 | 598 | 1.76 | 0.30 | 32.7 |
| 4/26/2015 11:32:36 | 38.06 | 35.16 | 600 | 1.78 | 0.30 | 32.8 |
| 4/26/2015 11:32:37 | 38.39 | 35.49 | 604 | 1.78 | 0.31 | 33.0 |
| 4/26/2015 11:32:38 | 38.71 | 35.81 | 597 | 1.76 | 0.30 | 32.6 |
| 4/26/2015 11:32:38 | 39.04 | 36.14 | 600 | 1.76 | 0.30 | 32.8 |
| 4/26/2015 11:32:39 | 39.37 | 36.47 | 601 | 1.81 | 0.30 | 32.9 |
| 4/26/2015 11:32:39 | 39.70 | 36.80 | 601 | 1.78 | 0.30 | 32.9 |
| 4/26/2015 11:32:40 | 40.03 | 37.13 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:40 | 40.35 | 37.45 | 601 | 1.78 | 0.30 | 32.9 |
| 4/26/2015 11:32:41 | 40.68 | 37.78 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:42 | 41.01 | 38.11 | 595 | 1.78 | 0.30 | 32.5 |
| 4/26/2015 11:32:42 | 41.34 | 38.44 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:43 | 41.67 | 38.77 | 599 | 1.78 | 0.30 | 32.8 |
| 4/26/2015 11:32:43 | 41.99 | 39.09 | 599 | 1.78 | 0.30 | 32.8 |
| 4/26/2015 11:32:44 | 42.32 | 39.42 | 599 | 1.78 | 0.30 | 32.8 |
| 4/26/2015 11:32:44 | 42.65 | 39.75 | 603 | 1.77 | 0.30 | 33.0 |
| 4/26/2015 11:32:45 | 42.98 | 40.08 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:46 | 43.31 | 40.41 | 596 | 1.78 | 0.30 | 32.6 |
| 4/26/2015 11:32:47 | 43.64 | 40.74 | 595 | 1.78 | 0.30 | 32.5 |
| 4/26/2015 11:32:47 | 43.96 | 41.06 | 601 | 1.78 | 0.30 | 32.9 |
| 4/26/2015 11:32:48 | 44.29 | 41.39 | 595 | 1.77 | 0.30 | 32.5 |
| 4/26/2015 11:32:48 | 44.62 | 41.72 | 598 | 1.79 | 0.30 | 32.7 |
| 4/26/2015 11:32:49 | 44.95 | 42.05 | 602 | 1.77 | 0.30 | 32.9 |
| 4/26/2015 11:32:50 | 45.28 | 42.38 | 596 | 1.79 | 0.30 | 32.6 |
| 4/26/2015 11:32:50 | 45.60 | 42.70 | 599 | 1.77 | 0.31 | 32.8 |
| 4/26/2015 11:32:51 | 45.93 | 43.03 | 592 | 1.78 | 0.30 | 32.4 |
| 4/26/2015 11:32:51 | 46.26 | 43.36 | 602 | 1.79 | 0.30 | 32.9 |
| 4/26/2015 11:32:52 | 46.59 | 43.69 | 596 | 1.79 | 0.30 | 32.6 |
| 4/26/2015 11:32:52 | 46.92 | 44.02 | 599 | 1.76 | 0.30 | 32.8 |
| 4/26/2015 11:32:53 | 47.24 | 44.34 | 606 | 1.77 | 0.30 | 33.1 |
| 4/26/2015 11:32:54 | 47.57 | 44.67 | 596 | 1.77 | 0.30 | 32.6 |
| 4/26/2015 11:32:54 | 47.90 | 45.00 | 596 | 1.79 | 0.30 | 32.6 |
| 4/26/2015 11:33:11 | 48.23 | 45.33 | 34 | 1.72 | 1.16 | 1.9 |
| 4/26/2015 11:33:12 | 48.56 | 45.66 | 183 | 1.70 | 1.26 | 10.0 |
| 4/26/2015 11:33:24 | 48.88 | 45.98 | 0 | 1.72 | 1.14 | 0.0 |
| 4/26/2015 11:33:42 | 49.21 | 46.31 | 0 | 1.74 | 1.14 | 0.0 |
| 4/26/2015 11:33:43 | 49.54 | 46.64 | 126 | 1.74 | 1.14 | 6.9 |
| 4/26/2015 11:34:01 | 49.87 | 46.97 | 0 | 1.70 | 1.06 | 0.0 |
| 4/26/2015 11:34:03 | 50.20 | 47.30 | 135 | 1.74 | 1.54 | 7.4 |
| 4/26/2015 11:34:45 | 50.53 | 47.63 | 0 | 1.75 | 1.27 | 0.0 |
| 4/26/2015 11:34:47 | 50.85 | 47.95 | 109 | 1.74 | 1.03 | 6.0 |
| 4/26/2015 11:34:49 | 51.18 | 48.28 | 194 | 1.73 | 1.17 | 10.6 |
| 4/26/2015 11:35:08 | 51.51 | 48.61 | 45 | 1.74 | 1.08 | 2.4 |
| 4/26/2015 11:35:09 | 51.84 | 48.94 | 138 | 1.70 | 1.05 | 7.5 |
| 4/26/2015 11:35:11 | 52.17 | 49.27 | 225 | 1.74 | 1.04 | 12.3 |
| 4/26/2015 11:35:13 | 52.49 | 49.59 | 195 | 1.74 | 1.12 | 10.6 |
| 4/26/2015 11:35:40 | 52.82 | 49.92 | 44 | 1.75 | 1.33 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 11:35:42 | 53.15 | 50.25 | 173 | 1.72 | 1.13 | 9.5 |
| 4/26/2015 | 11:35:45 | 53.48 | 50.58 | 158 | 1.76 | 1.13 | 8.7 |
| 4/26/2015 | 11:35:47 | 53.81 | 50.91 | 163 | 1.75 | 1.15 | 8.9 |
| 4/26/2015 | 11:35:50 | 54.13 | 51.23 | 128 | 1.74 | 1.08 | 7.0 |
| 4/26/2015 | 11:35:52 | 54.46 | 51.56 | 125 | 1.75 | 1.10 | 6.8 |
| 4/26/2015 | 11:35:56 | 54.79 | 51.89 | 122 | 1.76 | 1.11 | 6.7 |
| 4/26/2015 | 11:35:59 | 55.12 | 52.22 | 118 | 1.76 | 1.08 | 6.5 |
| 4/26/2015 | 11:36:01 | 55.45 | 52.55 | 120 | 1.75 | 1.23 | 6.5 |
| 4/26/2015 | 11:36:05 | 55.77 | 52.87 | 130 | 1.76 | 1.13 | 7.1 |
| 4/26/2015 | 11:36:07 | 56.10 | 53.20 | 131 | 1.75 | 1.12 | 7.2 |
| 4/26/2015 | 11:36:10 | 56.43 | 53.53 | 127 | 1.76 | 1.18 | 7.0 |
| 4/26/2015 | 11:36:13 | 56.76 | 53.86 | 125 | 1.76 | 1.15 | 6.8 |
| 4/26/2015 | 11:36:16 | 57.09 | 54.19 | 122 | 1.74 | 1.09 | 6.7 |
| 4/26/2015 | 11:36:18 | 57.35 | 54.45 | 121 | 1.76 | 1.23 | 6.6 |

## H225 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:30:52

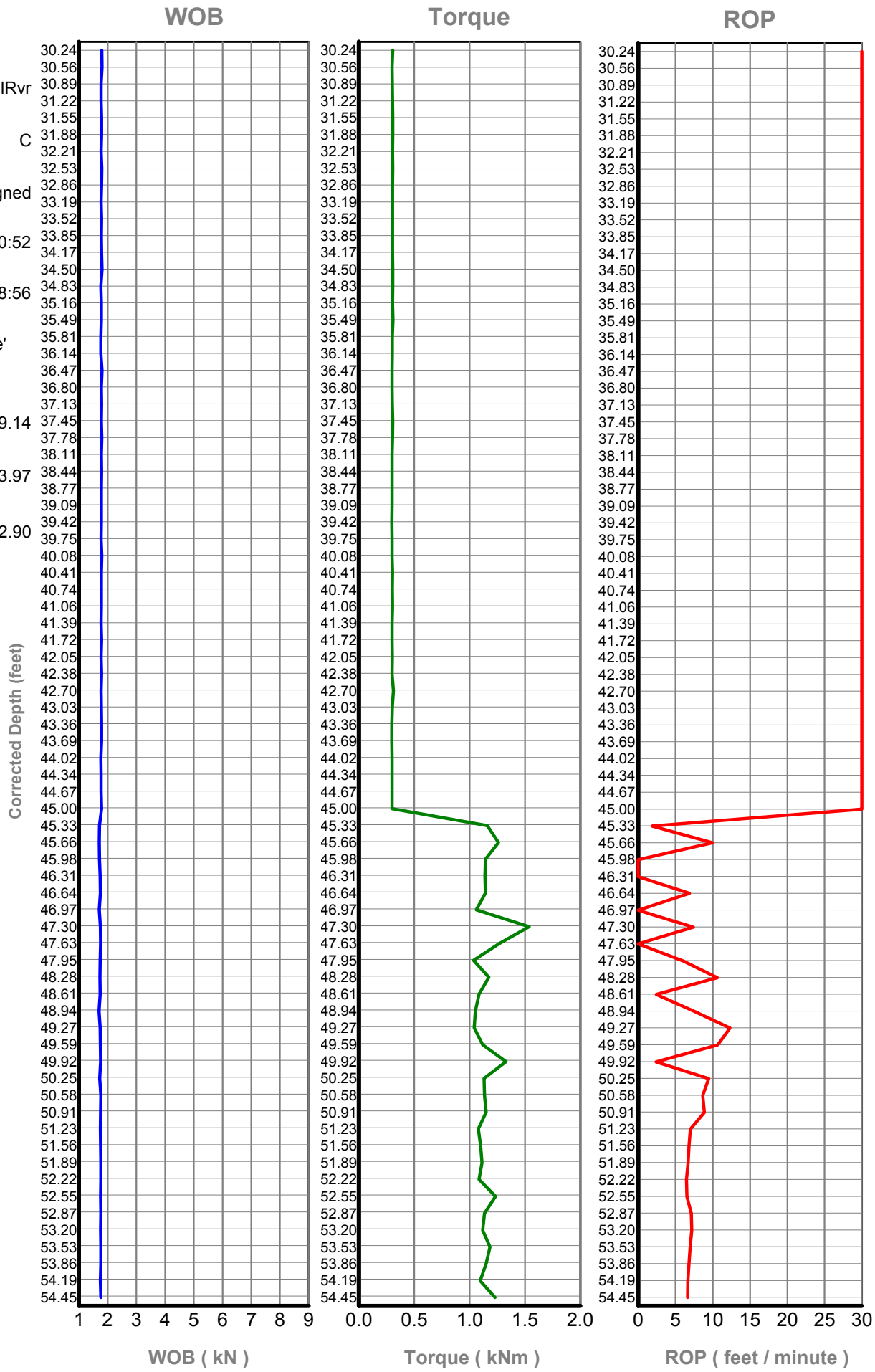
**End Date:**
4/26/2015 11:38:56

**Operator Note:**
'2.9 3.1C Auto Complete'

**Northing:**
366,109.14

**Easting:**
250,223.97

**Tide (feet):**
2.90



## Hole: H226 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:44:27 | 31.82 | 30.32 | 932 | 0.22 | 0.33 | 50.9 |
| 4/26/2015 2:44:27 | 32.15 | 30.65 | 932 | 0.22 | 0.33 | 50.9 |
| 4/26/2015 2:44:28 | 32.48 | 30.98 | 926 | 0.22 | 0.33 | 50.6 |
| 4/26/2015 2:44:28 | 32.81 | 31.31 | 926 | 0.22 | 0.33 | 50.6 |
| 4/26/2015 2:44:29 | 33.14 | 31.64 | 926 | 0.22 | 0.33 | 50.6 |
| 4/26/2015 2:44:29 | 33.46 | 31.96 | 934 | 0.22 | 0.33 | 51.1 |
| 4/26/2015 2:44:29 | 33.79 | 32.29 | 919 | 0.22 | 0.33 | 50.3 |
| 4/26/2015 2:44:30 | 34.12 | 32.62 | 919 | 0.22 | 0.33 | 50.3 |
| 4/26/2015 2:44:30 | 34.45 | 32.95 | 934 | 0.22 | 0.33 | 51.1 |
| 4/26/2015 2:44:30 | 34.78 | 33.28 | 932 | 0.22 | 0.33 | 51.0 |
| 4/26/2015 2:44:31 | 35.11 | 33.61 | 932 | 0.22 | 0.33 | 51.0 |
| 4/26/2015 2:44:31 | 35.43 | 33.93 | 932 | 0.22 | 0.33 | 51.0 |
| 4/26/2015 2:44:31 | 35.76 | 34.26 | 932 | 0.22 | 0.33 | 51.0 |
| 4/26/2015 2:44:32 | 36.09 | 34.59 | 924 | 0.22 | 0.33 | 50.5 |
| 4/26/2015 2:44:32 | 36.42 | 34.92 | 925 | 0.21 | 0.33 | 50.6 |
| 4/26/2015 2:44:33 | 36.75 | 35.25 | 925 | 0.21 | 0.33 | 50.6 |
| 4/26/2015 2:44:33 | 37.07 | 35.57 | 902 | 0.22 | 0.33 | 49.3 |
| 4/26/2015 2:44:33 | 37.40 | 35.90 | 902 | 0.22 | 0.33 | 49.3 |
| 4/26/2015 2:44:34 | 37.73 | 36.23 | 903 | 0.22 | 0.33 | 49.4 |
| 4/26/2015 2:44:34 | 38.06 | 36.56 | 903 | 0.22 | 0.33 | 49.4 |
| 4/26/2015 2:44:34 | 38.39 | 36.89 | 903 | 0.17 | 0.33 | 49.4 |
| 4/26/2015 2:44:35 | 38.71 | 37.21 | 918 | 0.22 | 0.33 | 50.2 |
| 4/26/2015 2:44:36 | 39.04 | 37.54 | 898 | 0.22 | 0.33 | 49.1 |
| 4/26/2015 2:44:36 | 39.37 | 37.87 | 898 | 0.22 | 0.33 | 49.1 |
| 4/26/2015 2:44:36 | 39.70 | 38.20 | 898 | 0.22 | 0.33 | 49.1 |
| 4/26/2015 2:44:37 | 40.03 | 38.53 | 909 | 0.22 | 0.33 | 49.7 |
| 4/26/2015 2:44:37 | 40.35 | 38.85 | 909 | 0.22 | 0.33 | 49.7 |
| 4/26/2015 2:44:37 | 40.68 | 39.18 | 922 | 0.22 | 0.33 | 50.4 |
| 4/26/2015 2:44:38 | 41.01 | 39.51 | 913 | 0.22 | 0.33 | 49.9 |
| 4/26/2015 2:44:38 | 41.34 | 39.84 | 913 | 0.22 | 0.33 | 49.9 |
| 4/26/2015 2:44:39 | 41.67 | 40.17 | 913 | 0.22 | 0.33 | 49.9 |
| 4/26/2015 2:44:39 | 41.99 | 40.49 | 916 | 0.22 | 0.33 | 50.1 |
| 4/26/2015 2:44:39 | 42.32 | 40.82 | 928 | 0.22 | 0.33 | 50.8 |
| 4/26/2015 2:44:40 | 42.65 | 41.15 | 925 | 0.22 | 0.33 | 50.6 |
| 4/26/2015 2:44:40 | 42.98 | 41.48 | 925 | 0.22 | 0.33 | 50.6 |
| 4/26/2015 2:44:40 | 43.31 | 41.81 | 916 | 0.22 | 0.33 | 50.1 |
| 4/26/2015 2:44:41 | 43.64 | 42.14 | 916 | 0.22 | 0.33 | 50.1 |
| 4/26/2015 2:44:41 | 43.96 | 42.46 | 927 | 0.22 | 0.33 | 50.7 |
| 4/26/2015 2:44:42 | 44.29 | 42.79 | 927 | 0.22 | 0.33 | 50.7 |
| 4/26/2015 2:44:42 | 44.62 | 43.12 | 906 | 0.22 | 0.33 | 49.5 |
| 4/26/2015 2:44:42 | 44.95 | 43.45 | 909 | 0.22 | 0.33 | 49.7 |
| 4/26/2015 2:44:43 | 45.28 | 43.78 | 909 | 0.21 | 0.33 | 49.7 |
| 4/26/2015 2:44:44 | 45.60 | 44.10 | 909 | 0.21 | 0.33 | 49.7 |
| 4/26/2015 2:44:43 | 45.93 | 44.43 | 899 | 0.22 | 0.33 | 49.2 |
| 4/26/2015 2:44:44 | 46.26 | 44.76 | 899 | 0.22 | 0.33 | 49.2 |
| 4/26/2015 2:44:44 | 46.59 | 45.09 | 932 | 0.21 | 0.33 | 51.0 |
| 4/26/2015 2:44:45 | 46.92 | 45.42 | 932 | 0.21 | 0.33 | 51.0 |
| 4/26/2015 2:44:45 | 47.24 | 45.74 | 929 | 0.22 | 0.33 | 50.8 |
| 4/26/2015 2:44:45 | 47.57 | 46.07 | 934 | 0.22 | 0.33 | 51.1 |
| 4/26/2015 2:44:46 | 47.90 | 46.40 | 934 | 0.22 | 0.33 | 51.1 |
| 4/26/2015 2:44:47 | 48.23 | 46.73 | 934 | 0.22 | 0.33 | 51.1 |
| 4/26/2015 2:44:47 | 48.56 | 47.06 | 920 | 0.21 | 0.33 | 50.3 |
| 4/26/2015 2:44:47 | 48.88 | 47.38 | 920 | 0.20 | 0.35 | 50.3 |
| 4/26/2015 2:44:48 | 49.21 | 47.71 | 884 | 0.19 | 0.38 | 48.4 |
| 4/26/2015 2:45:36 | 49.54 | 48.04 | 0 | 3.75 | 0.40 | 0.0 |
| 4/26/2015 2:45:42 | 49.87 | 48.37 | 70 | 5.23 | 0.40 | 3.8 |
| 4/26/2015 2:45:49 | 50.20 | 48.70 | 17 | 4.32 | 0.39 | 0.9 |
| 4/26/2015 2:45:50 | 50.53 | 49.03 | 126 | 4.21 | 0.37 | 6.9 |
| 4/26/2015 2:45:53 | 50.85 | 49.35 | 86 | 3.05 | 0.38 | 4.7 |
| 4/26/2015 2:45:56 | 51.18 | 49.68 | 154 | 4.54 | 0.38 | 8.4 |
| 4/26/2015 2:45:59 | 51.51 | 50.01 | 75 | 5.28 | 0.42 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:46:07 | 51.84 | 50.34 | 26 | 4.66 | 0.42 | 1.4 |
| 4/26/2015 | 2:46:10 | 52.17 | 50.67 | 157 | 2.96 | 0.37 | 8.6 |
| 4/26/2015 | 2:46:10 | 52.49 | 50.99 | 237 | 3.42 | 0.36 | 13.0 |
| 4/26/2015 | 2:46:11 | 52.82 | 51.32 | 322 | 2.44 | 0.36 | 17.6 |
| 4/26/2015 | 2:46:16 | 53.15 | 51.65 | 17 | 3.06 | 0.37 | 0.9 |
| 4/26/2015 | 2:46:23 | 53.48 | 51.98 | 0 | 3.04 | 0.37 | 0.0 |
| 4/26/2015 | 2:46:24 | 53.81 | 52.31 | 180 | 2.70 | 0.37 | 9.8 |
| 4/26/2015 | 2:46:25 | 54.13 | 52.63 | 334 | 2.94 | 0.38 | 18.3 |
| 4/26/2015 | 2:46:26 | 54.46 | 52.96 | 382 | 2.99 | 0.39 | 20.9 |
| 4/26/2015 | 2:46:28 | 54.79 | 53.29 | 231 | 3.24 | 0.39 | 12.6 |
| 4/26/2015 | 2:46:31 | 55.12 | 53.62 | 133 | 3.40 | 0.41 | 7.3 |
| 4/26/2015 | 2:46:35 | 55.45 | 53.95 | 89 | 3.40 | 0.40 | 4.9 |
| 4/26/2015 | 2:46:39 | 55.77 | 54.27 | 69 | 3.51 | 0.40 | 3.8 |
| 4/26/2015 | 2:46:47 | 56.10 | 54.60 | 43 | 3.50 | 0.40 | 2.4 |
| 4/26/2015 | 2:46:51 | 56.22 | 54.72 | 33 | 3.22 | 0.35 | 1.8 |

## H226 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:41:01

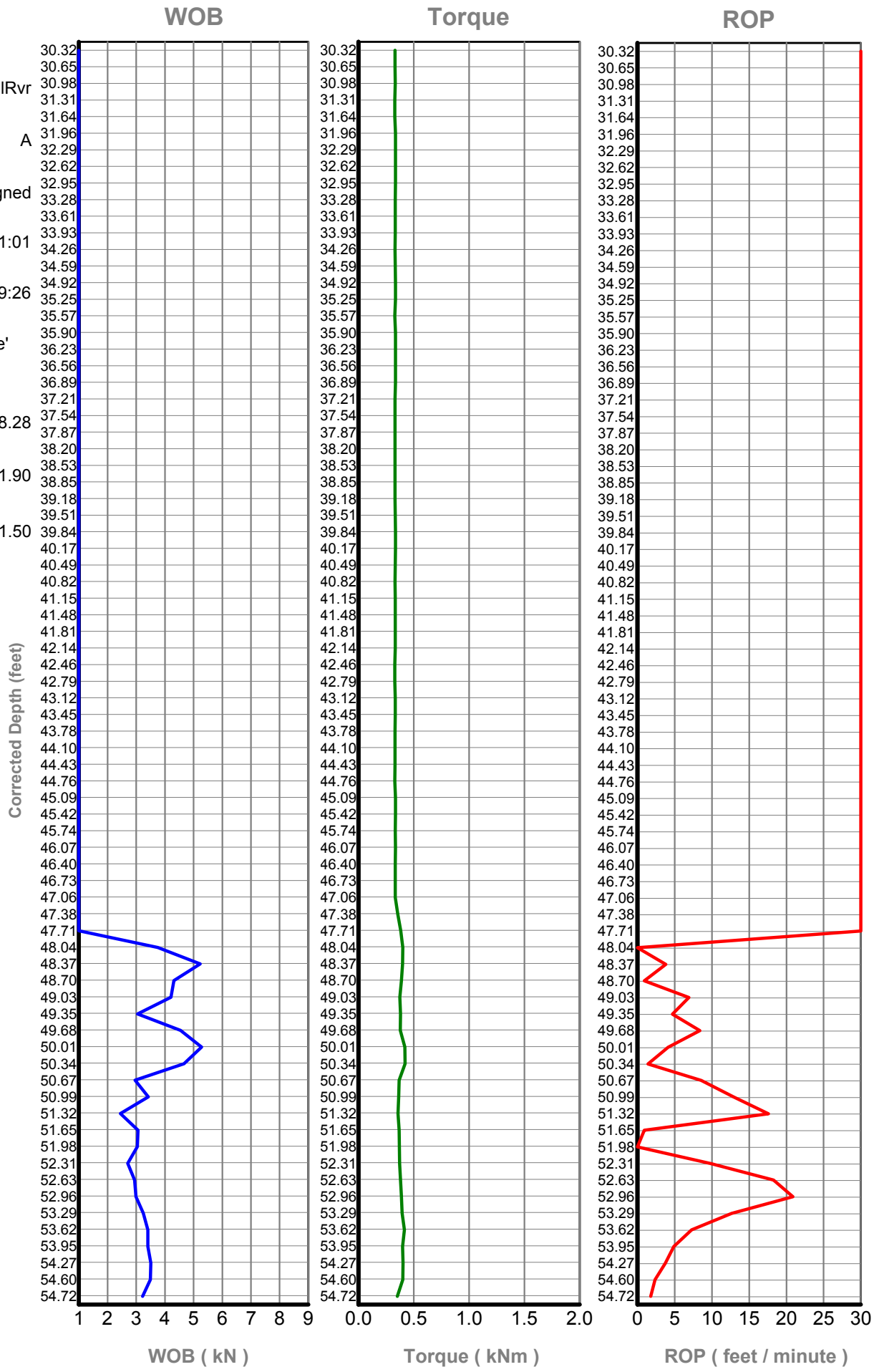
**End Date:**
4/26/2015 2:49:26

**Operator Note:**
'1.5 1.2 b Auto Complete'

**Northing:**
366,158.28

**Easting:**
250,291.90

**Tide (feet):**
1.50



## Hole: H227 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:52:30 | 31.82 | 30.12 | 566 | 1.81 | 0.16 | 30.9 |
| 4/26/2015 2:52:30 | 32.15 | 30.45 | 570 | 1.77 | 0.16 | 31.2 |
| 4/26/2015 2:52:31 | 32.48 | 30.78 | 573 | 1.80 | 0.16 | 31.3 |
| 4/26/2015 2:52:32 | 32.81 | 31.11 | 573 | 1.80 | 0.16 | 31.3 |
| 4/26/2015 2:52:33 | 33.14 | 31.44 | 576 | 1.77 | 0.16 | 31.5 |
| 4/26/2015 2:52:33 | 33.46 | 31.76 | 575 | 1.80 | 0.16 | 31.5 |
| 4/26/2015 2:52:34 | 33.79 | 32.09 | 572 | 1.81 | 0.16 | 31.3 |
| 4/26/2015 2:52:34 | 34.12 | 32.42 | 572 | 1.79 | 0.16 | 31.3 |
| 4/26/2015 2:52:35 | 34.45 | 32.75 | 572 | 1.80 | 0.16 | 31.3 |
| 4/26/2015 2:52:36 | 34.78 | 33.08 | 569 | 1.81 | 0.17 | 31.1 |
| 4/26/2015 2:52:36 | 35.11 | 33.41 | 569 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 2:52:37 | 35.43 | 33.73 | 569 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 2:52:37 | 35.76 | 34.06 | 563 | 1.80 | 0.16 | 30.8 |
| 4/26/2015 2:52:38 | 36.09 | 34.39 | 567 | 1.80 | 0.16 | 31.0 |
| 4/26/2015 2:52:39 | 36.42 | 34.72 | 570 | 1.78 | 0.16 | 31.2 |
| 4/26/2015 2:52:39 | 36.75 | 35.05 | 567 | 1.80 | 0.16 | 31.0 |
| 4/26/2015 2:52:40 | 37.07 | 35.37 | 577 | 1.81 | 0.16 | 31.5 |
| 4/26/2015 2:52:40 | 37.40 | 35.70 | 570 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 2:52:41 | 37.73 | 36.03 | 570 | 1.77 | 0.16 | 31.1 |
| 4/26/2015 2:52:42 | 38.06 | 36.36 | 573 | 1.81 | 0.16 | 31.3 |
| 4/26/2015 2:52:43 | 38.39 | 36.69 | 569 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 2:52:43 | 38.71 | 37.01 | 569 | 1.81 | 0.16 | 31.1 |
| 4/26/2015 2:52:44 | 39.04 | 37.34 | 576 | 1.81 | 0.16 | 31.5 |
| 4/26/2015 2:52:45 | 39.37 | 37.67 | 566 | 1.78 | 0.16 | 31.0 |
| 4/26/2015 2:52:45 | 39.70 | 38.00 | 560 | 1.81 | 0.16 | 30.6 |
| 4/26/2015 2:52:46 | 40.03 | 38.33 | 570 | 1.81 | 0.16 | 31.2 |
| 4/26/2015 2:52:46 | 40.35 | 38.65 | 564 | 1.81 | 0.16 | 30.8 |
| 4/26/2015 2:52:47 | 40.68 | 38.98 | 567 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 2:52:48 | 41.01 | 39.31 | 573 | 1.82 | 0.16 | 31.3 |
| 4/26/2015 2:52:48 | 41.34 | 39.64 | 567 | 1.78 | 0.16 | 31.0 |
| 4/26/2015 2:52:49 | 41.67 | 39.97 | 570 | 1.81 | 0.16 | 31.2 |
| 4/26/2015 2:52:49 | 41.99 | 40.29 | 557 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 2:52:50 | 42.32 | 40.62 | 566 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 2:52:51 | 42.65 | 40.95 | 560 | 1.79 | 0.16 | 30.6 |
| 4/26/2015 2:52:51 | 42.98 | 41.28 | 557 | 1.77 | 0.16 | 30.5 |
| 4/26/2015 2:52:52 | 43.31 | 41.61 | 560 | 1.81 | 0.16 | 30.6 |
| 4/26/2015 2:52:52 | 43.64 | 41.94 | 569 | 1.81 | 0.16 | 31.1 |
| 4/26/2015 2:52:54 | 43.96 | 42.26 | 564 | 1.77 | 0.16 | 30.8 |
| 4/26/2015 2:52:54 | 44.29 | 42.59 | 567 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 2:52:55 | 44.62 | 42.92 | 564 | 1.81 | 0.16 | 30.8 |
| 4/26/2015 2:52:55 | 44.95 | 43.25 | 564 | 1.78 | 0.16 | 30.8 |
| 4/26/2015 2:52:56 | 45.28 | 43.58 | 567 | 1.81 | 0.16 | 31.0 |
| 4/26/2015 2:52:57 | 45.60 | 43.90 | 564 | 1.79 | 0.16 | 30.8 |
| 4/26/2015 2:52:57 | 45.93 | 44.23 | 564 | 1.79 | 0.16 | 30.8 |
| 4/26/2015 2:52:58 | 46.26 | 44.56 | 561 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 2:52:58 | 46.59 | 44.89 | 564 | 1.81 | 0.16 | 30.8 |
| 4/26/2015 2:52:59 | 46.92 | 45.22 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 2:53:00 | 47.24 | 45.54 | 558 | 1.80 | 0.17 | 30.5 |
| 4/26/2015 2:53:00 | 47.57 | 45.87 | 567 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 2:53:01 | 47.90 | 46.20 | 564 | 1.80 | 0.16 | 30.9 |
| 4/26/2015 2:53:23 | 48.23 | 46.53 | 69 | 1.74 | 1.29 | 3.8 |
| 4/26/2015 2:53:25 | 48.56 | 46.86 | 206 | 1.75 | 1.12 | 11.3 |
| 4/26/2015 2:53:26 | 48.88 | 47.18 | 240 | 1.74 | 1.09 | 13.1 |
| 4/26/2015 2:53:31 | 49.21 | 47.51 | 131 | 1.76 | 1.07 | 7.2 |
| 4/26/2015 2:53:32 | 49.54 | 47.84 | 237 | 1.74 | 1.05 | 12.9 |
| 4/26/2015 2:53:34 | 49.87 | 48.17 | 267 | 1.76 | 1.08 | 14.6 |
| 4/26/2015 2:53:41 | 50.20 | 48.50 | 69 | 1.77 | 1.12 | 3.8 |
| 4/26/2015 2:53:44 | 50.53 | 48.83 | 112 | 1.77 | 1.12 | 6.1 |
| 4/26/2015 2:53:50 | 50.85 | 49.15 | 52 | 1.81 | 1.11 | 2.8 |
| 4/26/2015 2:53:59 | 51.18 | 49.48 | 35 | 1.81 | 1.11 | 1.9 |
| 4/26/2015 2:54:09 | 51.51 | 49.81 | 38 | 1.81 | 1.18 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:54:15 | 51.84 | 50.14 | 50 | 1.80 | 1.19 | 2.7 |

## H227 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:49:22

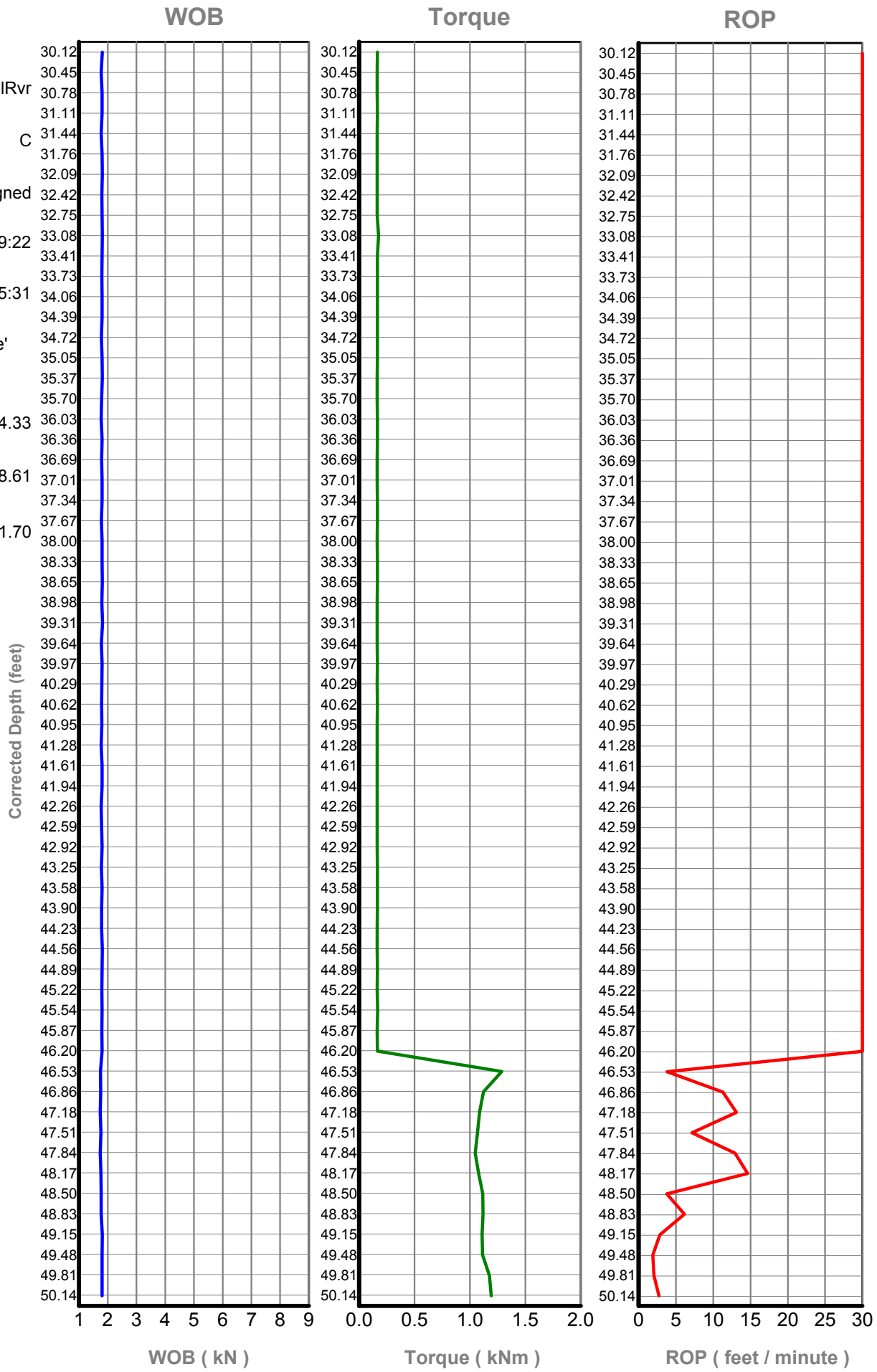
**End Date:**
4/26/2015 2:55:31

**Operator Note:**
'1.7 1.5 c Auto Complete'

**Northing:**
366,194.33

**Easting:**
250,338.61

**Tide (feet):**
1.70



## Hole: H228 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 2:41:10 | 31.82 | 30.32 | 517 | 1.81 | 0.17 | 28.3 |
| 4/26/2015 2:41:10 | 32.15 | 30.65 | 508 | 1.80 | 0.17 | 27.8 |
| 4/26/2015 2:41:11 | 32.48 | 30.98 | 508 | 1.79 | 0.16 | 27.8 |
| 4/26/2015 2:41:12 | 32.81 | 31.31 | 521 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:12 | 33.14 | 31.64 | 519 | 1.82 | 0.16 | 28.4 |
| 4/26/2015 2:41:13 | 33.46 | 31.96 | 522 | 1.81 | 0.16 | 28.6 |
| 4/26/2015 2:41:13 | 33.79 | 32.29 | 522 | 1.81 | 0.16 | 28.6 |
| 4/26/2015 2:41:14 | 34.12 | 32.62 | 516 | 1.82 | 0.16 | 28.2 |
| 4/26/2015 2:41:15 | 34.45 | 32.95 | 530 | 1.77 | 0.16 | 29.0 |
| 4/26/2015 2:41:16 | 34.78 | 33.28 | 518 | 1.80 | 0.17 | 28.3 |
| 4/26/2015 2:41:17 | 35.11 | 33.61 | 527 | 1.81 | 0.17 | 28.8 |
| 4/26/2015 2:41:17 | 35.43 | 33.93 | 536 | 1.79 | 0.16 | 29.3 |
| 4/26/2015 2:41:18 | 35.76 | 34.26 | 514 | 1.81 | 0.17 | 28.1 |
| 4/26/2015 2:41:19 | 36.09 | 34.59 | 519 | 1.80 | 0.16 | 28.4 |
| 4/26/2015 2:41:19 | 36.42 | 34.92 | 519 | 1.83 | 0.17 | 28.4 |
| 4/26/2015 2:41:20 | 36.75 | 35.25 | 524 | 1.80 | 0.16 | 28.7 |
| 4/26/2015 2:41:21 | 37.07 | 35.57 | 513 | 1.81 | 0.17 | 28.1 |
| 4/26/2015 2:41:21 | 37.40 | 35.90 | 513 | 1.83 | 0.17 | 28.1 |
| 4/26/2015 2:41:22 | 37.73 | 36.23 | 518 | 1.79 | 0.16 | 28.3 |
| 4/26/2015 2:41:22 | 38.06 | 36.56 | 526 | 1.82 | 0.16 | 28.8 |
| 4/26/2015 2:41:23 | 38.39 | 36.89 | 517 | 1.81 | 0.17 | 28.2 |
| 4/26/2015 2:41:24 | 38.71 | 37.21 | 517 | 1.79 | 0.17 | 28.2 |
| 4/26/2015 2:41:24 | 39.04 | 37.54 | 524 | 1.81 | 0.16 | 28.7 |
| 4/26/2015 2:41:25 | 39.37 | 37.87 | 510 | 1.79 | 0.16 | 27.9 |
| 4/26/2015 2:41:26 | 39.70 | 38.20 | 510 | 1.81 | 0.17 | 27.9 |
| 4/26/2015 2:41:27 | 40.03 | 38.53 | 510 | 1.81 | 0.17 | 27.9 |
| 4/26/2015 2:41:28 | 40.35 | 38.85 | 515 | 1.81 | 0.17 | 28.2 |
| 4/26/2015 2:41:28 | 40.68 | 39.18 | 517 | 1.81 | 0.17 | 28.3 |
| 4/26/2015 2:41:29 | 41.01 | 39.51 | 514 | 1.80 | 0.17 | 28.1 |
| 4/26/2015 2:41:30 | 41.34 | 39.84 | 520 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:30 | 41.67 | 40.17 | 518 | 1.80 | 0.17 | 28.3 |
| 4/26/2015 2:41:31 | 41.99 | 40.49 | 513 | 1.81 | 0.17 | 28.0 |
| 4/26/2015 2:41:32 | 42.32 | 40.82 | 522 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:32 | 42.65 | 41.15 | 522 | 1.79 | 0.17 | 28.5 |
| 4/26/2015 2:41:33 | 42.98 | 41.48 | 530 | 1.81 | 0.17 | 29.0 |
| 4/26/2015 2:41:34 | 43.31 | 41.81 | 521 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:34 | 43.64 | 42.14 | 515 | 1.83 | 0.17 | 28.2 |
| 4/26/2015 2:41:35 | 43.96 | 42.46 | 509 | 1.80 | 0.17 | 27.8 |
| 4/26/2015 2:41:36 | 44.29 | 42.79 | 515 | 1.81 | 0.17 | 28.2 |
| 4/26/2015 2:41:37 | 44.62 | 43.12 | 512 | 1.79 | 0.17 | 28.0 |
| 4/26/2015 2:41:37 | 44.95 | 43.45 | 515 | 1.81 | 0.17 | 28.2 |
| 4/26/2015 2:41:38 | 45.28 | 43.78 | 524 | 1.81 | 0.17 | 28.6 |
| 4/26/2015 2:41:39 | 45.60 | 44.10 | 520 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:39 | 45.93 | 44.43 | 517 | 1.80 | 0.17 | 28.3 |
| 4/26/2015 2:41:40 | 46.26 | 44.76 | 520 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:41 | 46.59 | 45.09 | 520 | 1.81 | 0.17 | 28.5 |
| 4/26/2015 2:41:41 | 46.92 | 45.42 | 514 | 1.78 | 0.17 | 28.1 |
| 4/26/2015 2:41:42 | 47.24 | 45.74 | 520 | 1.80 | 0.17 | 28.4 |
| 4/26/2015 2:42:08 | 47.57 | 46.07 | 51 | 1.81 | 1.12 | 2.8 |
| 4/26/2015 2:42:09 | 47.90 | 46.40 | 228 | 1.59 | 1.12 | 12.5 |
| 4/26/2015 2:42:27 | 48.23 | 46.73 | 122 | 1.79 | 1.09 | 6.6 |
| 4/26/2015 2:42:27 | 48.56 | 47.06 | 122 | 1.79 | 1.14 | 6.6 |
| 4/26/2015 2:42:30 | 48.88 | 47.38 | 211 | 1.72 | 1.17 | 11.5 |
| 4/26/2015 2:42:37 | 49.21 | 47.71 | 49 | 1.76 | 1.22 | 2.7 |
| 4/26/2015 2:42:38 | 49.54 | 48.04 | 196 | 1.76 | 1.09 | 10.7 |
| 4/26/2015 2:42:40 | 49.87 | 48.37 | 257 | 1.74 | 1.13 | 14.1 |
| 4/26/2015 2:42:41 | 50.20 | 48.70 | 286 | 1.76 | 1.08 | 15.7 |
| 4/26/2015 2:43:06 | 50.53 | 49.03 | 85 | 1.76 | 1.20 | 4.6 |
| 4/26/2015 2:43:08 | 50.85 | 49.35 | 160 | 1.77 | 1.14 | 8.7 |
| 4/26/2015 2:43:10 | 51.18 | 49.68 | 200 | 1.76 | 1.23 | 10.9 |
| 4/26/2015 2:43:12 | 51.51 | 50.01 | 203 | 1.79 | 1.54 | 11.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 2:43:14 | 51.84 | 50.34 | 201 | 1.76 | 1.14 | 11.0 |
| 4/26/2015 | 2:43:15 | 52.17 | 50.67 | 199 | 1.77 | 1.25 | 10.9 |
| 4/26/2015 | 2:44:08 | 52.49 | 50.99 | 77 | 1.74 | 1.15 | 4.2 |
| 4/26/2015 | 2:44:10 | 52.82 | 51.32 | 181 | 1.75 | 1.08 | 9.9 |
| 4/26/2015 | 2:44:11 | 53.15 | 51.65 | 238 | 1.74 | 1.10 | 13.0 |
| 4/26/2015 | 2:44:13 | 53.48 | 51.98 | 287 | 1.75 | 1.12 | 15.7 |
| 4/26/2015 | 2:44:42 | 53.81 | 52.31 | 40 | 1.76 | 1.25 | 2.2 |
| 4/26/2015 | 2:44:44 | 54.13 | 52.63 | 158 | 1.76 | 1.14 | 8.6 |
| 4/26/2015 | 2:44:47 | 54.46 | 52.96 | 115 | 1.79 | 1.20 | 6.3 |
| 4/26/2015 | 2:44:55 | 54.79 | 53.29 | 46 | 1.79 | 1.16 | 2.5 |
| 4/26/2015 | 2:45:02 | 55.12 | 53.62 | 43 | 1.79 | 1.09 | 2.4 |
| 4/26/2015 | 2:45:14 | 55.45 | 53.95 | 32 | 1.80 | 1.11 | 1.7 |
| 4/26/2015 | 2:45:22 | 55.71 | 54.21 | 32 | 1.79 | 1.20 | 1.7 |

## H228 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 2:39:41

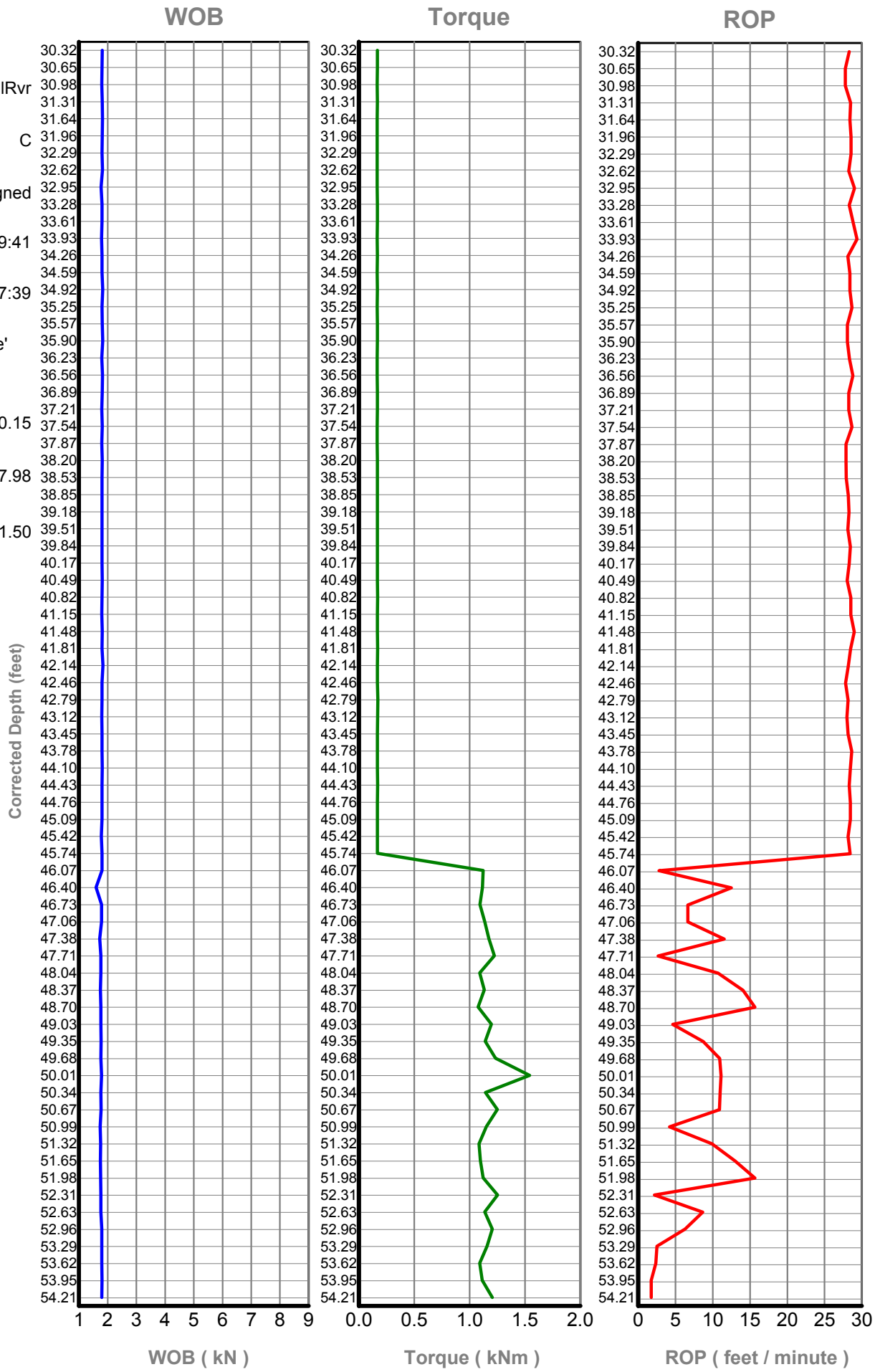
**End Date:**
4/26/2015 2:47:39

**Operator Note:**
'1.5 1.2 c Auto Complete'

**Northing:**
366,240.15

**Easting:**
250,397.98

**Tide (feet):**
1.50



## Hole: H229 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:43:26 | 35.11 | 30.31 | 1,044 | 0.94 | 0.37 | 57.1 |
| 4/25/2015 20:43:26 | 35.43 | 30.63 | 1,035 | 0.93 | 0.36 | 56.6 |
| 4/25/2015 20:43:27 | 35.76 | 30.96 | 1,032 | 0.94 | 0.38 | 56.4 |
| 4/25/2015 20:43:28 | 36.09 | 31.29 | 1,032 | 0.94 | 0.38 | 56.4 |
| 4/25/2015 20:43:28 | 36.42 | 31.62 | 1,028 | 0.93 | 0.36 | 56.2 |
| 4/25/2015 20:43:28 | 36.75 | 31.95 | 1,023 | 0.92 | 0.37 | 55.9 |
| 4/25/2015 20:43:29 | 37.07 | 32.27 | 1,023 | 0.92 | 0.37 | 55.9 |
| 4/25/2015 20:43:29 | 37.40 | 32.60 | 1,023 | 0.92 | 0.38 | 55.9 |
| 4/25/2015 20:43:29 | 37.73 | 32.93 | 967 | 0.92 | 0.37 | 52.9 |
| 4/25/2015 20:43:30 | 38.06 | 33.26 | 893 | 0.92 | 0.37 | 48.8 |
| 4/25/2015 20:43:30 | 38.39 | 33.59 | 824 | 0.92 | 0.38 | 45.0 |
| 4/25/2015 20:43:31 | 38.71 | 33.91 | 760 | 0.85 | 0.35 | 41.5 |
| 4/25/2015 20:43:31 | 39.04 | 34.24 | 694 | 0.88 | 0.35 | 38.0 |
| 4/25/2015 20:43:32 | 39.37 | 34.57 | 675 | 0.88 | 0.35 | 36.9 |
| 4/25/2015 20:43:33 | 39.70 | 34.90 | 680 | 0.18 | 0.35 | 37.2 |
| 4/25/2015 20:43:33 | 40.03 | 35.23 | 677 | 0.18 | 0.36 | 37.0 |
| 4/25/2015 20:43:34 | 40.35 | 35.55 | 674 | 0.20 | 0.35 | 36.8 |
| 4/25/2015 20:43:34 | 40.68 | 35.88 | 674 | 0.18 | 0.36 | 36.8 |
| 4/25/2015 20:43:35 | 41.01 | 36.21 | 668 | 0.19 | 0.35 | 36.5 |
| 4/25/2015 20:43:35 | 41.34 | 36.54 | 668 | 0.18 | 0.36 | 36.5 |
| 4/25/2015 20:43:36 | 41.67 | 36.87 | 664 | 0.18 | 0.35 | 36.3 |
| 4/25/2015 20:43:36 | 41.99 | 37.19 | 667 | 0.18 | 0.35 | 36.4 |
| 4/25/2015 20:43:37 | 42.32 | 37.52 | 674 | 0.19 | 0.36 | 36.8 |
| 4/25/2015 20:43:37 | 42.65 | 37.85 | 674 | 0.18 | 0.35 | 36.8 |
| 4/25/2015 20:43:38 | 42.98 | 38.18 | 674 | 0.18 | 0.35 | 36.8 |
| 4/25/2015 20:43:39 | 43.31 | 38.51 | 659 | 0.18 | 0.35 | 36.1 |
| 4/25/2015 20:43:39 | 43.64 | 38.84 | 659 | 0.19 | 0.34 | 36.1 |
| 4/25/2015 20:43:40 | 43.96 | 39.16 | 659 | 0.19 | 0.34 | 36.1 |
| 4/25/2015 20:43:40 | 44.29 | 39.49 | 696 | 0.19 | 0.34 | 38.1 |
| 4/25/2015 20:43:40 | 44.62 | 39.82 | 729 | 0.18 | 0.33 | 39.9 |
| 4/25/2015 20:43:41 | 44.95 | 40.15 | 770 | 0.18 | 0.34 | 42.1 |
| 4/25/2015 20:43:41 | 45.28 | 40.48 | 808 | 0.20 | 0.34 | 44.2 |
| 4/25/2015 20:43:42 | 45.60 | 40.80 | 808 | 0.20 | 0.34 | 44.2 |
| 4/25/2015 20:43:42 | 45.93 | 41.13 | 861 | 0.19 | 0.34 | 47.1 |
| 4/25/2015 20:43:42 | 46.26 | 41.46 | 862 | 0.18 | 0.33 | 47.1 |
| 4/25/2015 20:43:43 | 46.59 | 41.79 | 870 | 0.19 | 0.33 | 47.6 |
| 4/25/2015 20:43:43 | 46.92 | 42.12 | 867 | 0.18 | 0.34 | 47.4 |
| 4/25/2015 20:43:44 | 47.24 | 42.44 | 867 | 0.18 | 0.34 | 47.4 |
| 4/25/2015 20:43:44 | 47.57 | 42.77 | 855 | 0.18 | 0.34 | 46.7 |
| 4/25/2015 20:43:44 | 47.90 | 43.10 | 855 | 0.18 | 0.38 | 46.7 |
| 4/25/2015 20:44:04 | 48.23 | 43.43 | 35 | 4.07 | 0.38 | 1.9 |
| 4/25/2015 20:44:16 | 48.56 | 43.76 | 55 | 3.17 | 0.41 | 3.0 |
| 4/25/2015 20:44:23 | 48.88 | 44.08 | 55 | 3.18 | 0.41 | 3.0 |
| 4/25/2015 20:44:28 | 49.21 | 44.41 | 58 | 3.38 | 0.40 | 3.2 |
| 4/25/2015 20:44:36 | 49.54 | 44.74 | 47 | 3.27 | 0.40 | 2.6 |
| 4/25/2015 20:44:42 | 49.87 | 45.07 | 60 | 3.38 | 0.40 | 3.3 |
| 4/25/2015 20:44:48 | 50.20 | 45.40 | 52 | 3.48 | 0.40 | 2.8 |
| 4/25/2015 20:44:51 | 50.37 | 45.57 | 64 | 4.62 | 0.40 | 3.5 |

## H229 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:40:42

**End Date:**
4/25/2015 20:46:45

**Operator Note:**
'4.8 '0 5 b Auto Complete'

**Northing:**
366,300.89

**Easting:**
250,466.85

**Tide (feet):**
4.80



## Hole: H23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 23:28:48 | 32.48 | 30.18 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:28:48 | 32.81 | 30.51 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:28:49 | 33.14 | 30.84 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:28:50 | 33.46 | 31.16 | 1,023 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:28:50 | 33.79 | 31.49 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 23:28:50 | 34.12 | 31.82 | 1,032 | 0.18 | 0.31 | 56.5 |
| 4/25/2015 23:28:51 | 34.45 | 32.15 | 1,032 | 0.18 | 0.31 | 56.5 |
| 4/25/2015 23:28:51 | 34.78 | 32.48 | 1,032 | 0.18 | 0.32 | 56.5 |
| 4/25/2015 23:28:51 | 35.11 | 32.81 | 1,024 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:28:52 | 35.43 | 33.13 | 1,024 | 0.18 | 0.32 | 56.0 |
| 4/25/2015 23:28:52 | 35.76 | 33.46 | 1,035 | 0.18 | 0.32 | 56.6 |
| 4/25/2015 23:28:52 | 36.09 | 33.79 | 1,023 | 0.20 | 0.32 | 56.0 |
| 4/25/2015 23:28:53 | 36.42 | 34.12 | 1,023 | 0.20 | 0.32 | 56.0 |
| 4/25/2015 23:28:53 | 36.75 | 34.45 | 1,020 | 0.21 | 0.32 | 55.8 |
| 4/25/2015 23:28:53 | 37.07 | 34.77 | 1,018 | 0.23 | 0.32 | 55.6 |
| 4/25/2015 23:28:54 | 37.40 | 35.10 | 1,018 | 0.23 | 0.32 | 55.6 |
| 4/25/2015 23:28:54 | 37.73 | 35.43 | 1,023 | 0.24 | 0.32 | 56.0 |
| 4/25/2015 23:28:54 | 38.06 | 35.76 | 1,018 | 0.18 | 0.31 | 55.6 |
| 4/25/2015 23:28:55 | 38.39 | 36.09 | 1,018 | 0.18 | 0.31 | 55.6 |
| 4/25/2015 23:28:55 | 38.71 | 36.41 | 1,020 | 0.18 | 0.32 | 55.8 |
| 4/25/2015 23:28:55 | 39.04 | 36.74 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:28:56 | 39.37 | 37.07 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:28:56 | 39.70 | 37.40 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 23:28:56 | 40.03 | 37.73 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 23:28:57 | 40.35 | 38.05 | 1,029 | 0.18 | 0.32 | 56.3 |
| 4/25/2015 23:28:57 | 40.68 | 38.38 | 1,035 | 0.18 | 0.31 | 56.6 |
| 4/25/2015 23:28:57 | 41.01 | 38.71 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 23:28:58 | 41.34 | 39.04 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 23:28:58 | 41.67 | 39.37 | 1,035 | 0.18 | 0.31 | 56.6 |
| 4/25/2015 23:28:58 | 41.99 | 39.69 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 23:28:59 | 42.32 | 40.02 | 1,032 | 0.18 | 0.32 | 56.4 |
| 4/25/2015 23:28:59 | 42.65 | 40.35 | 1,026 | 0.18 | 0.31 | 56.1 |
| 4/25/2015 23:29:00 | 42.98 | 40.68 | 1,026 | 0.18 | 0.31 | 56.1 |
| 4/25/2015 23:29:00 | 43.31 | 41.01 | 1,026 | 0.18 | 0.31 | 56.1 |
| 4/25/2015 23:29:00 | 43.64 | 41.34 | 1,026 | 0.18 | 0.32 | 56.1 |
| 4/25/2015 23:29:01 | 43.96 | 41.66 | 1,027 | 0.17 | 0.33 | 56.2 |
| 4/25/2015 23:29:01 | 44.29 | 41.99 | 990 | 0.14 | 0.38 | 54.1 |
| 4/25/2015 23:29:36 | 44.62 | 42.32 | 40 | 2.00 | 0.30 | 2.2 |
| 4/25/2015 23:29:36 | 44.95 | 42.65 | 40 | 2.00 | 0.30 | 2.2 |
| 4/25/2015 23:29:39 | 45.28 | 42.98 | 120 | 4.41 | 0.37 | 6.6 |
| 4/25/2015 23:29:40 | 45.60 | 43.30 | 126 | 6.32 | 0.38 | 6.9 |
| 4/25/2015 23:29:47 | 45.93 | 43.63 | 68 | 4.17 | 0.37 | 3.7 |
| 4/25/2015 23:29:49 | 46.26 | 43.96 | 123 | 4.47 | 0.38 | 6.7 |
| 4/25/2015 23:29:52 | 46.59 | 44.29 | 173 | 3.77 | 0.37 | 9.4 |
| 4/25/2015 23:29:58 | 46.92 | 44.62 | 17 | 2.50 | 0.37 | 0.9 |
| 4/25/2015 23:29:59 | 47.24 | 44.94 | 240 | 2.36 | 0.34 | 13.1 |
| 4/25/2015 23:30:00 | 47.57 | 45.27 | 349 | 2.28 | 0.36 | 19.1 |
| 4/25/2015 23:30:00 | 47.90 | 45.60 | 457 | 2.36 | 0.36 | 25.0 |
| 4/25/2015 23:30:01 | 48.23 | 45.93 | 552 | 2.46 | 0.36 | 30.2 |
| 4/25/2015 23:30:02 | 48.56 | 46.26 | 543 | 2.57 | 0.36 | 29.7 |
| 4/25/2015 23:30:03 | 48.88 | 46.58 | 543 | 2.38 | 0.36 | 29.7 |
| 4/25/2015 23:30:03 | 49.21 | 46.91 | 546 | 2.48 | 0.35 | 29.9 |
| 4/25/2015 23:30:11 | 49.54 | 47.24 | 91 | 2.52 | 0.37 | 5.0 |
| 4/25/2015 23:30:11 | 49.87 | 47.57 | 188 | 2.37 | 0.35 | 10.3 |
| 4/25/2015 23:30:12 | 50.20 | 47.90 | 311 | 2.33 | 0.35 | 17.0 |
| 4/25/2015 23:30:13 | 50.53 | 48.23 | 441 | 2.42 | 0.35 | 24.1 |
| 4/25/2015 23:30:13 | 50.85 | 48.55 | 564 | 2.86 | 0.36 | 30.8 |
| 4/25/2015 23:30:14 | 51.18 | 48.88 | 572 | 4.18 | 0.38 | 31.3 |
| 4/25/2015 23:30:15 | 51.51 | 49.21 | 442 | 4.11 | 0.39 | 24.2 |
| 4/25/2015 23:30:16 | 51.84 | 49.54 | 358 | 3.84 | 0.38 | 19.6 |
| 4/25/2015 23:30:17 | 52.17 | 49.87 | 347 | 5.97 | 0.38 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 23:30:18 | 52.49 | 50.19 | 367 | 3.88 | 0.38 | 20.1 |
| 4/25/2015 | 23:30:19 | 52.82 | 50.52 | 316 | 5.48 | 0.39 | 17.3 |
| 4/25/2015 | 23:30:22 | 53.15 | 50.85 | 174 | 3.41 | 0.40 | 9.5 |
| 4/25/2015 | 23:30:26 | 53.48 | 51.18 | 101 | 5.55 | 0.39 | 5.5 |
| 4/25/2015 | 23:30:27 | 53.81 | 51.51 | 165 | 3.98 | 0.38 | 9.0 |
| 4/25/2015 | 23:30:29 | 54.13 | 51.83 | 266 | 4.93 | 0.38 | 14.5 |
| 4/25/2015 | 23:30:30 | 54.46 | 52.16 | 253 | 7.51 | 0.38 | 13.8 |
| 4/25/2015 | 23:30:31 | 54.79 | 52.49 | 274 | 2.67 | 0.37 | 15.0 |
| 4/25/2015 | 23:30:32 | 55.12 | 52.82 | 327 | 2.50 | 0.36 | 17.9 |
| 4/25/2015 | 23:30:32 | 55.45 | 53.15 | 405 | 2.64 | 0.36 | 22.2 |
| 4/25/2015 | 23:30:34 | 55.77 | 53.47 | 460 | 2.95 | 0.38 | 25.1 |
| 4/25/2015 | 23:30:35 | 56.10 | 53.80 | 411 | 3.03 | 0.38 | 22.5 |
| 4/25/2015 | 23:30:36 | 56.43 | 54.13 | 283 | 3.24 | 0.38 | 15.5 |
| 4/25/2015 | 23:30:39 | 56.76 | 54.46 | 159 | 4.78 | 0.39 | 8.7 |
| 4/25/2015 | 23:30:42 | 57.09 | 54.79 | 104 | 4.38 | 0.40 | 5.7 |
| 4/25/2015 | 23:30:46 | 57.41 | 55.11 | 95 | 4.50 | 0.40 | 5.2 |

## H23 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 23:26:14

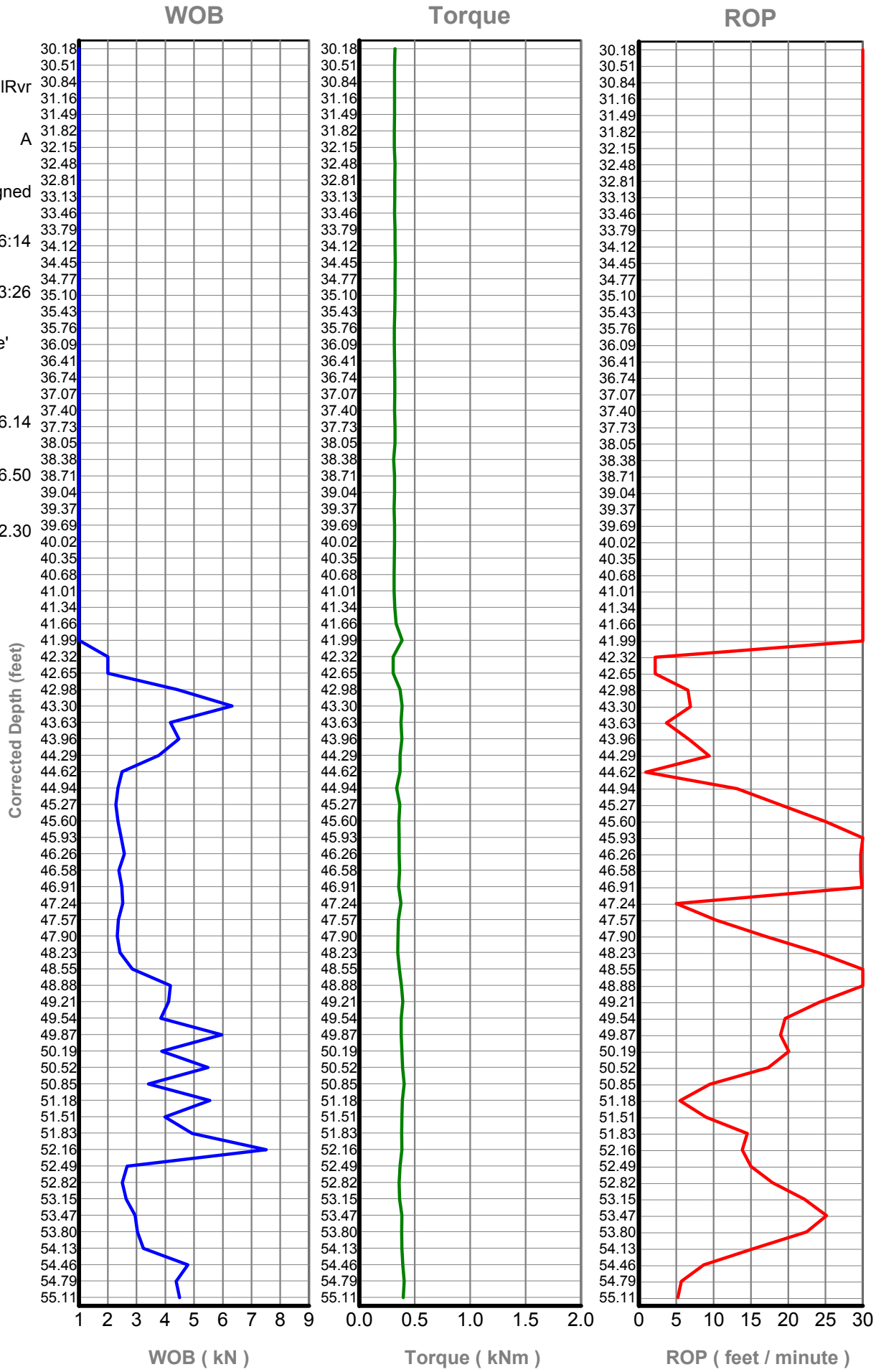
**End Date:**
4/25/2015 23:33:26

**Operator Note:**
'2.3 2.4 b Auto Complete'

**Northing:**
366,626.14

**Easting:**
250,276.50

**Tide (feet):**
2.30



## Hole: H230 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:44:19 | 35.11 | 30.31 | 590 | 1.80 | 0.16 | 32.2 |
| 4/25/2015 20:44:20 | 35.43 | 30.63 | 590 | 1.81 | 0.16 | 32.2 |
| 4/25/2015 20:44:20 | 35.76 | 30.96 | 587 | 1.80 | 0.16 | 32.1 |
| 4/25/2015 20:44:21 | 36.09 | 31.29 | 590 | 1.79 | 0.16 | 32.3 |
| 4/25/2015 20:44:22 | 36.42 | 31.62 | 590 | 1.79 | 0.16 | 32.2 |
| 4/25/2015 20:44:23 | 36.75 | 31.95 | 587 | 1.81 | 0.16 | 32.1 |
| 4/25/2015 20:44:23 | 37.07 | 32.27 | 590 | 1.77 | 0.17 | 32.2 |
| 4/25/2015 20:44:24 | 37.40 | 32.60 | 583 | 1.81 | 0.16 | 31.9 |
| 4/25/2015 20:44:24 | 37.73 | 32.93 | 590 | 1.79 | 0.16 | 32.2 |
| 4/25/2015 20:44:25 | 38.06 | 33.26 | 587 | 1.79 | 0.16 | 32.1 |
| 4/25/2015 20:44:26 | 38.39 | 33.59 | 587 | 1.81 | 0.16 | 32.1 |
| 4/25/2015 20:44:26 | 38.71 | 33.91 | 590 | 1.79 | 0.16 | 32.2 |
| 4/25/2015 20:44:27 | 39.04 | 34.24 | 587 | 1.81 | 0.16 | 32.1 |
| 4/25/2015 20:44:27 | 39.37 | 34.57 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:28 | 39.70 | 34.90 | 583 | 1.80 | 0.16 | 31.9 |
| 4/25/2015 20:44:28 | 40.03 | 35.23 | 587 | 1.79 | 0.16 | 32.1 |
| 4/25/2015 20:44:29 | 40.35 | 35.55 | 577 | 1.81 | 0.16 | 31.6 |
| 4/25/2015 20:44:30 | 40.68 | 35.88 | 582 | 1.81 | 0.16 | 31.8 |
| 4/25/2015 20:44:30 | 41.01 | 36.21 | 585 | 1.78 | 0.16 | 32.0 |
| 4/25/2015 20:44:31 | 41.34 | 36.54 | 586 | 1.80 | 0.16 | 32.0 |
| 4/25/2015 20:44:31 | 41.67 | 36.87 | 573 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 20:44:32 | 41.99 | 37.19 | 583 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:33 | 42.32 | 37.52 | 581 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 20:44:34 | 42.65 | 37.85 | 585 | 1.79 | 0.16 | 32.0 |
| 4/25/2015 20:44:34 | 42.98 | 38.18 | 581 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 20:44:35 | 43.31 | 38.51 | 594 | 1.78 | 0.16 | 32.5 |
| 4/25/2015 20:44:35 | 43.64 | 38.84 | 591 | 1.80 | 0.16 | 32.3 |
| 4/25/2015 20:44:36 | 43.96 | 39.16 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:37 | 44.29 | 39.49 | 587 | 1.80 | 0.16 | 32.1 |
| 4/25/2015 20:44:37 | 44.62 | 39.82 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:38 | 44.95 | 40.15 | 584 | 1.81 | 0.16 | 31.9 |
| 4/25/2015 20:44:38 | 45.28 | 40.48 | 583 | 1.81 | 0.16 | 31.9 |
| 4/25/2015 20:44:39 | 45.60 | 40.80 | 587 | 1.79 | 0.16 | 32.1 |
| 4/25/2015 20:44:40 | 45.93 | 41.13 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:40 | 46.26 | 41.46 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:41 | 46.59 | 41.79 | 584 | 1.83 | 0.16 | 31.9 |
| 4/25/2015 20:44:41 | 46.92 | 42.12 | 581 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 20:44:42 | 47.24 | 42.44 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:42 | 47.57 | 42.77 | 580 | 1.80 | 0.16 | 31.7 |
| 4/25/2015 20:44:44 | 47.90 | 43.10 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:44 | 48.23 | 43.43 | 584 | 1.81 | 0.16 | 31.9 |
| 4/25/2015 20:44:45 | 48.56 | 43.76 | 581 | 1.80 | 0.17 | 31.8 |
| 4/25/2015 20:44:45 | 48.88 | 44.08 | 584 | 1.79 | 0.16 | 31.9 |
| 4/25/2015 20:44:46 | 49.21 | 44.41 | 578 | 1.82 | 0.16 | 31.6 |
| 4/25/2015 20:44:47 | 49.54 | 44.74 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:44:47 | 49.87 | 45.07 | 582 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 20:44:48 | 50.20 | 45.40 | 579 | 1.81 | 0.16 | 31.7 |
| 4/25/2015 20:45:20 | 50.53 | 45.73 | 23 | 1.83 | 1.05 | 1.3 |
| 4/25/2015 20:45:20 | 50.85 | 46.05 | 123 | 1.81 | 1.05 | 6.7 |
| 4/25/2015 20:45:25 | 51.18 | 46.38 | 38 | 1.76 | 1.13 | 2.1 |
| 4/25/2015 20:45:28 | 51.51 | 46.71 | 43 | 1.76 | 1.16 | 2.3 |
| 4/25/2015 20:45:41 | 51.84 | 47.04 | 0 | 1.57 | 1.14 | 0.0 |
| 4/25/2015 20:45:42 | 52.17 | 47.37 | 121 | 1.78 | 1.29 | 6.6 |
| 4/25/2015 20:45:44 | 52.49 | 47.69 | 216 | 1.76 | 1.17 | 11.8 |
| 4/25/2015 20:45:59 | 52.82 | 48.02 | 38 | 1.76 | 1.13 | 2.1 |
| 4/25/2015 20:46:01 | 53.15 | 48.35 | 165 | 1.79 | 1.52 | 9.0 |
| 4/25/2015 20:46:03 | 53.48 | 48.68 | 168 | 1.79 | 1.15 | 9.2 |
| 4/25/2015 20:46:05 | 53.81 | 49.01 | 175 | 1.77 | 1.17 | 9.6 |
| 4/25/2015 20:46:25 | 54.13 | 49.33 | 52 | 1.77 | 1.21 | 2.8 |
| 4/25/2015 20:46:28 | 54.46 | 49.66 | 187 | 1.75 | 1.15 | 10.2 |
| 4/25/2015 20:46:30 | 54.79 | 49.99 | 197 | 1.79 | 1.14 | 10.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 20:46:31 | 55.12 | 50.32 | 181 | 1.78 | 1.12 | 9.9 |
| 4/25/2015 | 20:46:34 | 55.45 | 50.65 | 147 | 1.79 | 1.14 | 8.0 |
| 4/25/2015 | 20:46:36 | 55.77 | 50.97 | 139 | 1.79 | 1.12 | 7.6 |
| 4/25/2015 | 20:46:39 | 56.10 | 51.30 | 142 | 1.77 | 1.09 | 7.7 |
| 4/25/2015 | 20:46:41 | 56.43 | 51.63 | 165 | 1.80 | 1.17 | 9.0 |
| 4/25/2015 | 20:46:43 | 56.76 | 51.96 | 150 | 1.80 | 1.12 | 8.2 |
| 4/25/2015 | 20:46:52 | 57.09 | 52.29 | 26 | 1.76 | 1.03 | 1.4 |
| 4/25/2015 | 20:46:54 | 57.41 | 52.61 | 210 | 1.77 | 1.11 | 11.5 |
| 4/25/2015 | 20:46:57 | 57.74 | 52.94 | 96 | 1.79 | 1.14 | 5.3 |
| 4/25/2015 | 20:47:07 | 58.07 | 53.27 | 35 | 1.80 | 1.16 | 1.9 |
| 4/25/2015 | 20:47:11 | 58.40 | 53.60 | 84 | 1.78 | 1.15 | 4.6 |
| 4/25/2015 | 20:47:16 | 58.73 | 53.93 | 64 | 1.79 | 1.14 | 3.5 |
| 4/25/2015 | 20:47:21 | 59.06 | 54.26 | 84 | 1.77 | 1.11 | 4.6 |
| 4/25/2015 | 20:47:35 | 59.37 | 54.57 | 18 | 1.79 | 1.14 | 1.0 |

## H230 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:42:12

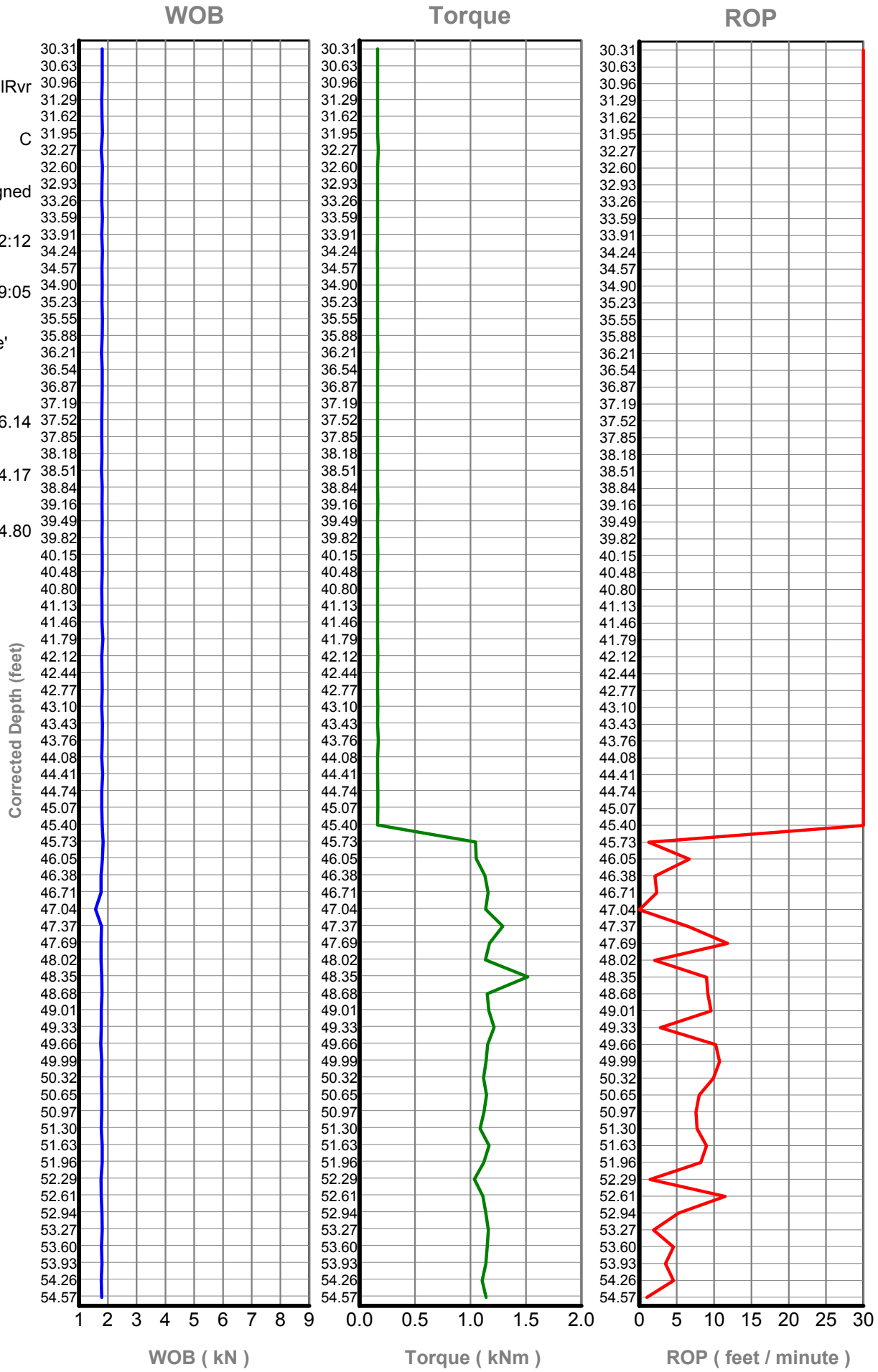
**End Date:**
4/25/2015 20:49:05

**Operator Note:**
'4.8 5.0 c Auto Complete'

**Northing:**
366,336.14

**Easting:**
250,514.17

**Tide (feet):**
4.80



## Hole: H231 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:55:03 | 34.78 | 30.18 | 579 | 1.77 | 0.16 | 31.6 |
| 4/25/2015 20:55:04 | 35.11 | 30.51 | 579 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 20:55:04 | 35.43 | 30.83 | 579 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 20:55:05 | 35.76 | 31.16 | 579 | 1.95 | 0.16 | 31.6 |
| 4/25/2015 20:55:06 | 36.09 | 31.49 | 579 | 1.76 | 0.16 | 31.6 |
| 4/25/2015 20:55:06 | 36.42 | 31.82 | 588 | 1.80 | 0.16 | 32.2 |
| 4/25/2015 20:55:07 | 36.75 | 32.15 | 581 | 1.80 | 0.16 | 31.8 |
| 4/25/2015 20:55:08 | 37.07 | 32.47 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 20:55:08 | 37.40 | 32.80 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 20:55:09 | 37.73 | 33.13 | 578 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 20:55:10 | 38.06 | 33.46 | 575 | 1.77 | 0.16 | 31.5 |
| 4/25/2015 20:55:10 | 38.39 | 33.79 | 575 | 1.81 | 0.16 | 31.4 |
| 4/25/2015 20:55:11 | 38.71 | 34.11 | 578 | 1.79 | 0.16 | 31.6 |
| 4/25/2015 20:55:11 | 39.04 | 34.44 | 575 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 20:55:12 | 39.37 | 34.77 | 578 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 20:55:13 | 39.70 | 35.10 | 582 | 1.81 | 0.16 | 31.8 |
| 4/25/2015 20:55:13 | 40.03 | 35.43 | 578 | 1.80 | 0.16 | 31.6 |
| 4/25/2015 20:55:14 | 40.35 | 35.75 | 575 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 20:55:14 | 40.68 | 36.08 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:15 | 41.01 | 36.41 | 569 | 1.80 | 0.16 | 31.1 |
| 4/25/2015 20:55:16 | 41.34 | 36.74 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:16 | 41.67 | 37.07 | 575 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 20:55:17 | 41.99 | 37.39 | 582 | 1.79 | 0.16 | 31.8 |
| 4/25/2015 20:55:17 | 42.32 | 37.72 | 573 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:19 | 42.65 | 38.05 | 576 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 20:55:19 | 42.98 | 38.38 | 576 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 20:55:20 | 43.31 | 38.71 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:20 | 43.64 | 39.04 | 575 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 20:55:21 | 43.96 | 39.36 | 572 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 20:55:22 | 44.29 | 39.69 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:22 | 44.62 | 40.02 | 576 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 20:55:23 | 44.95 | 40.35 | 573 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 20:55:23 | 45.28 | 40.68 | 576 | 1.80 | 0.16 | 31.5 |
| 4/25/2015 20:55:24 | 45.60 | 41.00 | 573 | 1.81 | 0.16 | 31.3 |
| 4/25/2015 20:55:24 | 45.93 | 41.33 | 576 | 1.81 | 0.16 | 31.5 |
| 4/25/2015 20:55:25 | 46.26 | 41.66 | 575 | 1.79 | 0.16 | 31.5 |
| 4/25/2015 20:55:26 | 46.59 | 41.99 | 575 | 1.77 | 0.16 | 31.5 |
| 4/25/2015 20:55:26 | 46.92 | 42.32 | 572 | 1.78 | 0.16 | 31.3 |
| 4/25/2015 20:55:27 | 47.24 | 42.64 | 575 | 1.76 | 0.16 | 31.5 |
| 4/25/2015 20:55:27 | 47.57 | 42.97 | 575 | 1.78 | 0.16 | 31.5 |
| 4/25/2015 20:55:29 | 47.90 | 43.30 | 569 | 1.78 | 0.16 | 31.1 |
| 4/25/2015 20:55:29 | 48.23 | 43.63 | 569 | 1.79 | 0.17 | 31.1 |
| 4/25/2015 20:55:30 | 48.56 | 43.96 | 569 | 1.79 | 0.16 | 31.1 |
| 4/25/2015 20:55:30 | 48.88 | 44.28 | 569 | 1.81 | 0.16 | 31.1 |
| 4/25/2015 20:55:31 | 49.21 | 44.61 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:32 | 49.54 | 44.94 | 572 | 1.80 | 0.16 | 31.3 |
| 4/25/2015 20:55:32 | 49.87 | 45.27 | 572 | 1.79 | 0.16 | 31.3 |
| 4/25/2015 20:55:33 | 50.20 | 45.60 | 572 | 1.82 | 0.16 | 31.3 |
| 4/25/2015 20:56:09 | 50.53 | 45.93 | 0 | 1.76 | 1.05 | 0.0 |
| 4/25/2015 20:56:11 | 50.85 | 46.25 | 108 | 1.79 | 1.32 | 5.9 |
| 4/25/2015 20:56:18 | 51.18 | 46.58 | 0 | 1.77 | 1.13 | 0.0 |
| 4/25/2015 20:56:21 | 51.51 | 46.91 | 100 | 1.74 | 1.35 | 5.4 |
| 4/25/2015 20:56:22 | 51.84 | 47.24 | 188 | 1.75 | 1.07 | 10.3 |
| 4/25/2015 20:56:33 | 52.17 | 47.57 | 24 | 1.77 | 1.12 | 1.3 |
| 4/25/2015 20:56:35 | 52.49 | 47.89 | 165 | 1.77 | 1.10 | 9.0 |
| 4/25/2015 20:56:35 | 52.82 | 48.22 | 231 | 1.81 | 0.97 | 12.6 |
| 4/25/2015 20:56:55 | 53.15 | 48.55 | 30 | 1.79 | 0.96 | 1.7 |
| 4/25/2015 20:56:56 | 53.48 | 48.88 | 199 | 1.81 | 0.95 | 10.9 |
| 4/25/2015 20:56:57 | 53.81 | 49.21 | 282 | 1.81 | 1.11 | 15.4 |
| 4/25/2015 20:57:05 | 54.13 | 49.53 | 91 | 1.76 | 0.95 | 5.0 |
| 4/25/2015 20:57:06 | 54.46 | 49.86 | 241 | 1.76 | 1.15 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 20:57:08 | 54.79 | 50.19 | 295 | 1.79 | 1.09 | 16.1 |
| 4/25/2015 | 20:57:09 | 55.12 | 50.52 | 225 | 1.74 | 1.06 | 12.3 |
| 4/25/2015 | 20:57:19 | 55.45 | 50.85 | 64 | 1.74 | 1.25 | 3.5 |
| 4/25/2015 | 20:57:20 | 55.77 | 51.17 | 194 | 1.77 | 1.21 | 10.6 |
| 4/25/2015 | 20:57:21 | 56.10 | 51.50 | 243 | 1.73 | 1.09 | 13.3 |
| 4/25/2015 | 20:57:30 | 56.43 | 51.83 | 63 | 1.76 | 1.31 | 3.4 |
| 4/25/2015 | 20:57:32 | 56.76 | 52.16 | 149 | 1.73 | 1.21 | 8.2 |
| 4/25/2015 | 20:57:34 | 57.09 | 52.49 | 168 | 1.74 | 1.11 | 9.2 |
| 4/25/2015 | 20:57:35 | 57.41 | 52.81 | 238 | 1.74 | 1.10 | 13.0 |
| 4/25/2015 | 20:57:37 | 57.74 | 53.14 | 246 | 1.76 | 1.22 | 13.4 |
| 4/25/2015 | 20:57:38 | 58.07 | 53.47 | 252 | 1.77 | 1.12 | 13.8 |
| 4/25/2015 | 20:57:40 | 58.40 | 53.80 | 236 | 1.76 | 1.13 | 12.9 |
| 4/25/2015 | 20:57:42 | 58.73 | 54.13 | 198 | 1.79 | 1.11 | 10.8 |
| 4/25/2015 | 20:57:44 | 59.06 | 54.46 | 182 | 1.75 | 1.13 | 10.0 |
| 4/25/2015 | 20:57:46 | 59.38 | 54.78 | 144 | 1.77 | 1.10 | 7.9 |
| 4/25/2015 | 20:57:49 | 59.71 | 55.11 | 122 | 1.78 | 1.13 | 6.7 |
| 4/25/2015 | 20:57:51 | 59.85 | 55.25 | 100 | 1.79 | 1.15 | 5.5 |

## H231 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:51:35

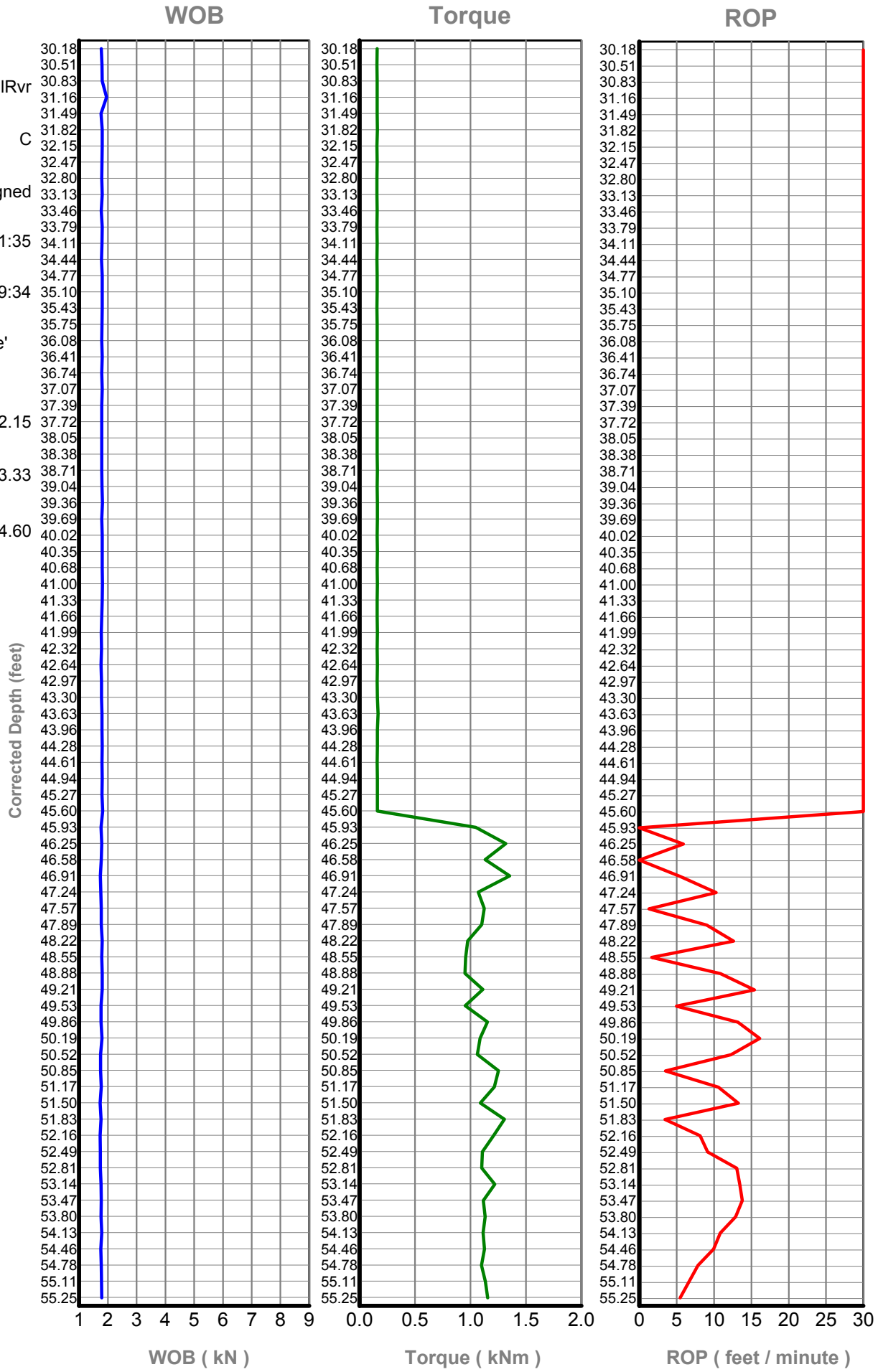
**End Date:**
4/25/2015 20:59:34

**Operator Note:**
'4.6 4.8 c Auto Complete'

**Northing:**
366,382.15

**Easting:**
250,573.33

**Tide (feet):**
4.60



## Hole: H232 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:31:23 | 30.51 | 30.01 | 1,025 | 0.33 | 0.32 | 56.1 |
| 4/25/2015 13:31:23 | 30.84 | 30.34 | 1,025 | 0.33 | 0.32 | 56.1 |
| 4/25/2015 13:31:24 | 31.17 | 30.67 | 1,063 | 0.33 | 0.32 | 58.1 |
| 4/25/2015 13:31:24 | 31.50 | 31.00 | 1,063 | 0.33 | 0.32 | 58.1 |
| 4/25/2015 13:31:24 | 31.82 | 31.32 | 1,031 | 0.33 | 0.32 | 56.4 |
| 4/25/2015 13:31:25 | 32.15 | 31.65 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 13:31:25 | 32.48 | 31.98 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 13:31:25 | 32.81 | 32.31 | 1,054 | 0.33 | 0.33 | 57.6 |
| 4/25/2015 13:31:26 | 33.14 | 32.64 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 13:31:26 | 33.46 | 32.96 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 13:31:26 | 33.79 | 33.29 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 13:31:27 | 34.12 | 33.62 | 1,028 | 0.33 | 0.32 | 56.2 |
| 4/25/2015 13:31:27 | 34.45 | 33.95 | 1,028 | 0.33 | 0.32 | 56.2 |
| 4/25/2015 13:31:27 | 34.78 | 34.28 | 1,028 | 0.34 | 0.32 | 56.2 |
| 4/25/2015 13:31:28 | 35.11 | 34.61 | 1,037 | 0.37 | 0.32 | 56.7 |
| 4/25/2015 13:31:28 | 35.43 | 34.93 | 1,037 | 0.37 | 0.32 | 56.7 |
| 4/25/2015 13:31:28 | 35.76 | 35.26 | 1,019 | 0.35 | 0.32 | 55.7 |
| 4/25/2015 13:31:29 | 36.09 | 35.59 | 1,051 | 0.36 | 0.32 | 57.5 |
| 4/25/2015 13:31:29 | 36.42 | 35.92 | 1,051 | 0.36 | 0.32 | 57.5 |
| 4/25/2015 13:31:29 | 36.75 | 36.25 | 1,016 | 0.33 | 0.32 | 55.6 |
| 4/25/2015 13:31:30 | 37.07 | 36.57 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/25/2015 13:31:30 | 37.40 | 36.90 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/25/2015 13:31:30 | 37.73 | 37.23 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 13:31:31 | 38.06 | 37.56 | 998 | 0.32 | 0.33 | 54.6 |
| 4/25/2015 13:31:31 | 38.39 | 37.89 | 998 | 0.32 | 0.33 | 54.6 |
| 4/25/2015 13:31:32 | 38.71 | 38.21 | 998 | 0.32 | 0.33 | 54.6 |
| 4/25/2015 13:31:32 | 39.04 | 38.54 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/25/2015 13:31:32 | 39.37 | 38.87 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/25/2015 13:31:32 | 39.70 | 39.20 | 1,013 | 0.36 | 0.32 | 55.4 |
| 4/25/2015 13:31:33 | 40.03 | 39.53 | 1,013 | 0.36 | 0.32 | 55.4 |
| 4/25/2015 13:31:33 | 40.35 | 39.85 | 1,007 | 0.32 | 0.27 | 55.1 |
| 4/25/2015 13:31:33 | 40.68 | 40.18 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/25/2015 13:31:34 | 41.01 | 40.51 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/25/2015 13:31:34 | 41.34 | 40.84 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 13:31:35 | 41.67 | 41.17 | 1,060 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 13:31:35 | 41.99 | 41.49 | 1,060 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 13:31:35 | 42.32 | 41.82 | 1,056 | 0.32 | 0.32 | 57.8 |
| 4/25/2015 13:31:36 | 42.65 | 42.15 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 13:31:36 | 42.98 | 42.48 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 13:31:36 | 43.31 | 42.81 | 1,053 | 0.32 | 0.33 | 57.6 |
| 4/25/2015 13:31:37 | 43.64 | 43.14 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 13:31:37 | 43.96 | 43.46 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 13:31:37 | 44.29 | 43.79 | 1,043 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 13:31:38 | 44.62 | 44.12 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:31:38 | 44.95 | 44.45 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 13:31:38 | 45.28 | 44.78 | 1,041 | 1.90 | 0.32 | 56.9 |
| 4/25/2015 13:31:39 | 45.60 | 45.10 | 1,035 | 2.36 | 0.34 | 56.6 |
| 4/25/2015 13:31:39 | 45.93 | 45.43 | 1,003 | 4.22 | 0.37 | 54.8 |
| 4/25/2015 13:31:40 | 46.26 | 45.76 | 876 | 3.20 | 0.39 | 47.9 |
| 4/25/2015 13:31:46 | 46.59 | 46.09 | 64 | 5.24 | 0.41 | 3.5 |
| 4/25/2015 13:31:50 | 46.92 | 46.42 | 92 | 4.40 | 0.39 | 5.0 |
| 4/25/2015 13:31:56 | 47.24 | 46.74 | 106 | 8.14 | 0.41 | 5.8 |
| 4/25/2015 13:32:02 | 47.57 | 47.07 | 87 | 3.69 | 0.36 | 4.7 |
| 4/25/2015 13:32:20 | 47.90 | 47.40 | 0 | 1.86 | 0.32 | 0.0 |
| 4/25/2015 13:32:20 | 48.23 | 47.73 | 156 | 1.88 | 0.32 | 8.5 |
| 4/25/2015 13:32:21 | 48.56 | 48.06 | 344 | 2.02 | 0.42 | 18.8 |
| 4/25/2015 13:32:21 | 48.88 | 48.38 | 344 | 2.02 | 0.42 | 18.8 |
| 4/25/2015 13:32:21 | 49.21 | 48.71 | 510 | 2.17 | 0.36 | 27.9 |
| 4/25/2015 13:32:22 | 49.54 | 49.04 | 646 | 2.10 | 0.35 | 35.3 |
| 4/25/2015 13:32:22 | 49.87 | 49.37 | 774 | 2.51 | 0.35 | 42.3 |
| 4/25/2015 13:32:23 | 50.20 | 49.70 | 745 | 2.97 | 0.38 | 40.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:32:24 | 50.53 | 50.03 | 558 | 3.22 | 0.40 | 30.5 |
| 4/25/2015 | 13:32:26 | 50.85 | 50.35 | 285 | 4.00 | 0.39 | 15.6 |
| 4/25/2015 | 13:32:28 | 51.18 | 50.68 | 211 | 4.15 | 0.39 | 11.5 |
| 4/25/2015 | 13:32:29 | 51.51 | 51.01 | 251 | 2.93 | 0.38 | 13.7 |
| 4/25/2015 | 13:32:30 | 51.84 | 51.34 | 286 | 3.05 | 0.38 | 15.7 |
| 4/25/2015 | 13:32:32 | 52.17 | 51.67 | 275 | 3.18 | 0.38 | 15.0 |
| 4/25/2015 | 13:32:44 | 52.49 | 51.99 | 110 | 3.39 | 0.39 | 6.0 |
| 4/25/2015 | 13:32:49 | 52.82 | 52.32 | 22 | 3.59 | 0.37 | 1.2 |
| 4/25/2015 | 13:32:49 | 53.15 | 52.65 | 108 | 3.23 | 0.36 | 5.9 |
| 4/25/2015 | 13:32:53 | 53.48 | 52.98 | 26 | 4.05 | 0.37 | 1.4 |
| 4/25/2015 | 13:32:53 | 53.81 | 53.31 | 114 | 4.16 | 0.38 | 6.2 |
| 4/25/2015 | 13:32:54 | 54.13 | 53.63 | 268 | 4.17 | 0.37 | 14.7 |
| 4/25/2015 | 13:32:55 | 54.46 | 53.96 | 408 | 3.56 | 0.38 | 22.3 |
| 4/25/2015 | 13:32:58 | 54.79 | 54.29 | 136 | 4.72 | 0.39 | 7.5 |
| 4/25/2015 | 13:33:00 | 55.12 | 54.62 | 137 | 5.99 | 0.38 | 7.5 |
| 4/25/2015 | 13:33:02 | 55.45 | 54.95 | 176 | 3.26 | 0.39 | 9.6 |
| 4/25/2015 | 13:33:06 | 55.64 | 55.14 | 56 | 3.08 | 0.40 | 3.1 |

## H232 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:29:27

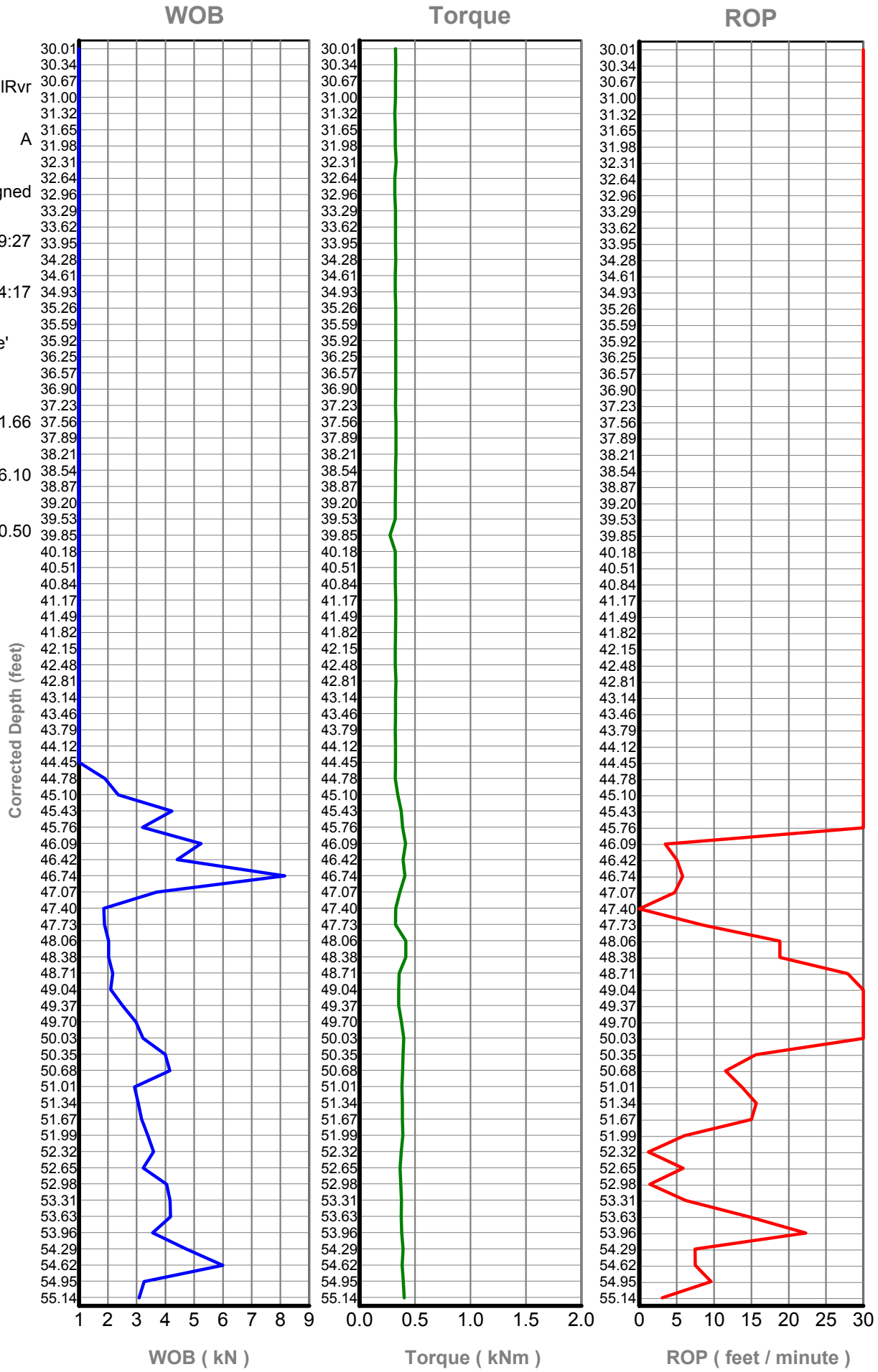
**End Date:**
4/25/2015 13:34:17

**Operator Note:**
'0.5 0.6 b Auto Complete'

**Northing:**
366,451.66

**Easting:**
250,646.10

**Tide (feet):**
0.50



## Hole: H233 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:36:05 | 30.51 | 30.01 | 1,081 | 0.32 | 0.31 | 59.1 |
| 4/25/2015 13:36:05 | 30.84 | 30.34 | 1,081 | 0.32 | 0.32 | 59.1 |
| 4/25/2015 13:36:06 | 31.17 | 30.67 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 13:36:06 | 31.50 | 31.00 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 13:36:06 | 31.82 | 31.32 | 1,071 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 13:36:07 | 32.15 | 31.65 | 1,071 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 13:36:07 | 32.48 | 31.98 | 1,071 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 13:36:07 | 32.81 | 32.31 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 13:36:08 | 33.14 | 32.64 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 13:36:08 | 33.46 | 32.96 | 1,068 | 0.32 | 0.32 | 58.4 |
| 4/25/2015 13:36:08 | 33.79 | 33.29 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 13:36:09 | 34.12 | 33.62 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 13:36:09 | 34.45 | 33.95 | 1,082 | 0.32 | 0.31 | 59.2 |
| 4/25/2015 13:36:09 | 34.78 | 34.28 | 1,083 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 13:36:10 | 35.11 | 34.61 | 1,083 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 13:36:10 | 35.43 | 34.93 | 1,070 | 0.27 | 0.32 | 58.5 |
| 4/25/2015 13:36:10 | 35.76 | 35.26 | 1,076 | 0.33 | 0.32 | 58.9 |
| 4/25/2015 13:36:11 | 36.09 | 35.59 | 1,076 | 0.33 | 0.32 | 58.9 |
| 4/25/2015 13:36:11 | 36.42 | 35.92 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 13:36:11 | 36.75 | 36.25 | 1,068 | 0.32 | 0.31 | 58.4 |
| 4/25/2015 13:36:12 | 37.07 | 36.57 | 1,068 | 0.32 | 0.31 | 58.4 |
| 4/25/2015 13:36:12 | 37.40 | 36.90 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 13:36:12 | 37.73 | 37.23 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 13:36:12 | 38.06 | 37.56 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/25/2015 13:36:13 | 38.39 | 37.89 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 13:36:13 | 38.71 | 38.21 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 13:36:13 | 39.04 | 38.54 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 13:36:14 | 39.37 | 38.87 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 13:36:14 | 39.70 | 39.20 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 13:36:14 | 40.03 | 39.53 | 1,080 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 13:36:15 | 40.35 | 39.85 | 1,067 | 0.31 | 0.31 | 58.4 |
| 4/25/2015 13:36:16 | 40.68 | 40.18 | 1,067 | 0.31 | 0.31 | 58.4 |
| 4/25/2015 13:36:16 | 41.01 | 40.51 | 1,065 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 13:36:16 | 41.34 | 40.84 | 1,056 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 13:36:17 | 41.67 | 41.17 | 1,056 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 13:36:17 | 41.99 | 41.49 | 1,066 | 0.32 | 0.31 | 58.3 |
| 4/25/2015 13:36:17 | 42.32 | 41.82 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 13:36:18 | 42.65 | 42.15 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 13:36:18 | 42.98 | 42.48 | 1,063 | 0.32 | 0.32 | 58.1 |
| 4/25/2015 13:36:18 | 43.31 | 42.81 | 1,063 | 0.32 | 0.32 | 58.1 |
| 4/25/2015 13:36:18 | 43.64 | 43.14 | 1,056 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 13:36:19 | 43.96 | 43.46 | 1,077 | 0.31 | 0.32 | 58.9 |
| 4/25/2015 13:36:19 | 44.29 | 43.79 | 1,077 | 0.31 | 0.32 | 58.9 |
| 4/25/2015 13:36:19 | 44.62 | 44.12 | 1,053 | 0.33 | 0.32 | 57.6 |
| 4/25/2015 13:36:20 | 44.95 | 44.45 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/25/2015 13:36:20 | 45.28 | 44.78 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/25/2015 13:36:20 | 45.60 | 45.10 | 1,050 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 13:36:21 | 45.93 | 45.43 | 1,050 | 0.30 | 0.34 | 57.4 |
| 4/25/2015 13:36:21 | 46.26 | 45.76 | 1,050 | 0.30 | 0.34 | 57.4 |
| 4/25/2015 13:36:28 | 46.59 | 46.09 | 61 | 3.87 | 0.40 | 3.3 |
| 4/25/2015 13:36:29 | 46.92 | 46.42 | 209 | 3.39 | 0.37 | 11.4 |
| 4/25/2015 13:36:29 | 47.24 | 46.74 | 297 | 3.80 | 0.37 | 16.3 |
| 4/25/2015 13:36:30 | 47.57 | 47.07 | 406 | 2.15 | 0.36 | 22.2 |
| 4/25/2015 13:36:50 | 47.90 | 47.40 | 6 | 2.88 | 0.36 | 0.3 |
| 4/25/2015 13:36:54 | 48.23 | 47.73 | 0 | 2.49 | 0.34 | 0.0 |
| 4/25/2015 13:36:55 | 48.56 | 48.06 | 162 | 2.57 | 0.35 | 8.9 |
| 4/25/2015 13:37:39 | 48.88 | 48.38 | 34 | 3.54 | 0.38 | 1.9 |
| 4/25/2015 13:37:40 | 49.21 | 48.71 | 133 | 3.35 | 0.38 | 7.3 |
| 4/25/2015 13:37:42 | 49.54 | 49.04 | 206 | 3.53 | 0.37 | 11.2 |
| 4/25/2015 13:37:42 | 49.87 | 49.37 | 221 | 2.42 | 0.37 | 12.1 |
| 4/25/2015 13:37:50 | 50.20 | 49.70 | 49 | 2.23 | 0.37 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:37:51 | 50.53 | 50.03 | 97 | 2.41 | 0.36 | 5.3 |
| 4/25/2015 | 13:37:54 | 50.85 | 50.35 | 65 | 3.33 | 0.38 | 3.5 |
| 4/25/2015 | 13:37:55 | 51.18 | 50.68 | 201 | 3.23 | 0.36 | 11.0 |
| 4/25/2015 | 13:37:56 | 51.51 | 51.01 | 310 | 3.95 | 0.36 | 17.0 |
| 4/25/2015 | 13:38:26 | 51.84 | 51.34 | 59 | 4.84 | 0.37 | 3.2 |
| 4/25/2015 | 13:38:26 | 52.17 | 51.67 | 59 | 2.88 | 0.36 | 3.2 |
| 4/25/2015 | 13:38:27 | 52.49 | 51.99 | 220 | 3.32 | 0.36 | 12.1 |
| 4/25/2015 | 13:38:49 | 52.82 | 52.32 | 16 | 3.52 | 0.37 | 0.9 |
| 4/25/2015 | 13:38:50 | 53.15 | 52.65 | 97 | 3.26 | 0.36 | 5.3 |
| 4/25/2015 | 13:38:59 | 53.48 | 52.98 | 22 | 4.05 | 0.38 | 1.2 |
| 4/25/2015 | 13:39:01 | 53.81 | 53.31 | 90 | 3.67 | 0.37 | 4.9 |
| 4/25/2015 | 13:39:02 | 54.13 | 53.63 | 158 | 4.45 | 0.38 | 8.7 |
| 4/25/2015 | 13:39:03 | 54.46 | 53.96 | 279 | 3.92 | 0.39 | 15.2 |
| 4/25/2015 | 13:39:04 | 54.79 | 54.29 | 313 | 5.07 | 0.38 | 17.1 |
| 4/25/2015 | 13:39:05 | 55.12 | 54.62 | 304 | 4.33 | 0.39 | 16.6 |
| 4/25/2015 | 13:39:07 | 55.45 | 54.95 | 257 | 3.80 | 0.39 | 14.1 |
| 4/25/2015 | 13:39:08 | 55.59 | 55.09 | 202 | 4.27 | 0.38 | 11.0 |

## H233 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:34:27

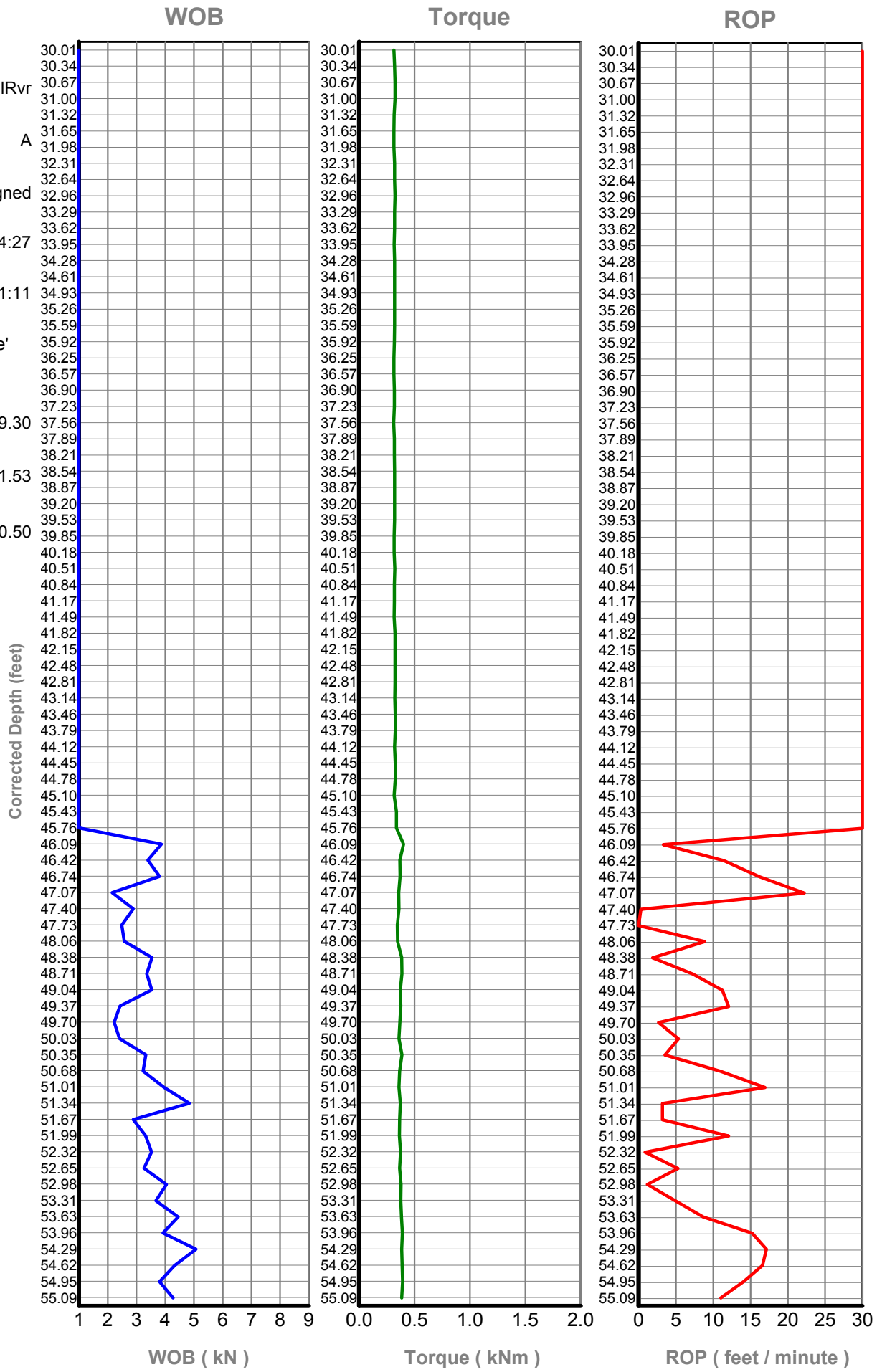
**End Date:**
4/25/2015 13:41:11

**Operator Note:**
'0.5 0.6 b Auto Complete'

**Northing:**
366,489.30

**Easting:**
250,691.53

**Tide (feet):**
0.50



## Hole: H234 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:33:30 | 30.51 | 30.01 | 612 | 1.76 | 0.30 | 33.5 |
| 4/25/2015 13:33:31 | 30.84 | 30.34 | 605 | 1.76 | 0.31 | 33.1 |
| 4/25/2015 13:33:31 | 31.17 | 30.67 | 608 | 1.78 | 0.31 | 33.2 |
| 4/25/2015 13:33:32 | 31.50 | 31.00 | 612 | 1.75 | 0.31 | 33.5 |
| 4/25/2015 13:33:33 | 31.82 | 31.32 | 611 | 1.79 | 0.31 | 33.4 |
| 4/25/2015 13:33:33 | 32.15 | 31.65 | 604 | 1.76 | 0.31 | 33.0 |
| 4/25/2015 13:33:34 | 32.48 | 31.98 | 597 | 1.76 | 0.31 | 32.7 |
| 4/25/2015 13:33:35 | 32.81 | 32.31 | 608 | 1.79 | 0.30 | 33.2 |
| 4/25/2015 13:33:35 | 33.14 | 32.64 | 602 | 1.76 | 0.31 | 32.9 |
| 4/25/2015 13:33:36 | 33.46 | 32.96 | 602 | 1.79 | 0.31 | 32.9 |
| 4/25/2015 13:33:36 | 33.79 | 33.29 | 602 | 1.75 | 0.31 | 32.9 |
| 4/25/2015 13:33:37 | 34.12 | 33.62 | 612 | 1.79 | 0.30 | 33.4 |
| 4/25/2015 13:33:37 | 34.45 | 33.95 | 595 | 1.78 | 0.30 | 32.5 |
| 4/25/2015 13:33:38 | 34.78 | 34.28 | 598 | 1.75 | 0.31 | 32.7 |
| 4/25/2015 13:33:39 | 35.11 | 34.61 | 598 | 1.76 | 0.31 | 32.7 |
| 4/25/2015 13:33:39 | 35.43 | 34.93 | 602 | 1.76 | 0.31 | 32.9 |
| 4/25/2015 13:33:40 | 35.76 | 35.26 | 595 | 1.76 | 0.30 | 32.5 |
| 4/25/2015 13:33:40 | 36.09 | 35.59 | 602 | 1.79 | 0.30 | 32.9 |
| 4/25/2015 13:33:41 | 36.42 | 35.92 | 601 | 1.76 | 0.30 | 32.9 |
| 4/25/2015 13:33:41 | 36.75 | 36.25 | 604 | 1.76 | 0.31 | 33.0 |
| 4/25/2015 13:33:43 | 37.07 | 36.57 | 601 | 1.77 | 0.30 | 32.9 |
| 4/25/2015 13:33:43 | 37.40 | 36.90 | 604 | 1.79 | 0.31 | 33.0 |
| 4/25/2015 13:33:44 | 37.73 | 37.23 | 601 | 1.76 | 0.31 | 32.9 |
| 4/25/2015 13:33:44 | 38.06 | 37.56 | 598 | 1.78 | 0.30 | 32.7 |
| 4/25/2015 13:33:45 | 38.39 | 37.89 | 595 | 1.77 | 0.31 | 32.5 |
| 4/25/2015 13:33:45 | 38.71 | 38.21 | 585 | 1.77 | 0.31 | 32.0 |
| 4/25/2015 13:33:46 | 39.04 | 38.54 | 593 | 1.75 | 0.31 | 32.4 |
| 4/25/2015 13:33:47 | 39.37 | 38.87 | 594 | 1.77 | 0.30 | 32.5 |
| 4/25/2015 13:33:47 | 39.70 | 39.20 | 597 | 1.76 | 0.30 | 32.6 |
| 4/25/2015 13:33:48 | 40.03 | 39.53 | 604 | 1.76 | 0.30 | 33.0 |
| 4/25/2015 13:33:48 | 40.35 | 39.85 | 610 | 1.77 | 0.30 | 33.4 |
| 4/25/2015 13:33:49 | 40.68 | 40.18 | 600 | 1.77 | 0.30 | 32.8 |
| 4/25/2015 13:33:49 | 41.01 | 40.51 | 601 | 1.76 | 0.30 | 32.9 |
| 4/25/2015 13:33:50 | 41.34 | 40.84 | 601 | 1.75 | 0.30 | 32.9 |
| 4/25/2015 13:33:51 | 41.67 | 41.17 | 598 | 1.76 | 0.30 | 32.7 |
| 4/25/2015 13:33:51 | 41.99 | 41.49 | 605 | 1.76 | 0.30 | 33.1 |
| 4/25/2015 13:33:52 | 42.32 | 41.82 | 598 | 1.78 | 0.30 | 32.7 |
| 4/25/2015 13:33:52 | 42.65 | 42.15 | 596 | 1.77 | 0.30 | 32.6 |
| 4/25/2015 13:33:53 | 42.98 | 42.48 | 592 | 1.75 | 0.30 | 32.4 |
| 4/25/2015 13:33:54 | 43.31 | 42.81 | 598 | 1.75 | 0.30 | 32.7 |
| 4/25/2015 13:33:54 | 43.64 | 43.14 | 596 | 1.77 | 0.31 | 32.6 |
| 4/25/2015 13:33:55 | 43.96 | 43.46 | 580 | 1.76 | 0.30 | 31.7 |
| 4/25/2015 13:33:56 | 44.29 | 43.79 | 591 | 1.76 | 0.30 | 32.3 |
| 4/25/2015 13:33:56 | 44.62 | 44.12 | 595 | 1.76 | 0.30 | 32.5 |
| 4/25/2015 13:33:57 | 44.95 | 44.45 | 592 | 1.76 | 0.30 | 32.4 |
| 4/25/2015 13:33:57 | 45.28 | 44.78 | 582 | 1.76 | 0.30 | 31.8 |
| 4/25/2015 13:34:16 | 45.60 | 45.10 | 0 | 1.79 | 1.16 | 0.0 |
| 4/25/2015 13:34:17 | 45.93 | 45.43 | 128 | 1.82 | 1.24 | 7.0 |
| 4/25/2015 13:34:18 | 46.26 | 45.76 | 295 | 1.86 | 1.08 | 16.1 |
| 4/25/2015 13:34:20 | 46.59 | 46.09 | 249 | 1.77 | 1.13 | 13.6 |
| 4/25/2015 13:35:09 | 46.92 | 46.42 | 41 | 1.79 | 1.16 | 2.3 |
| 4/25/2015 13:35:10 | 47.24 | 46.74 | 192 | 1.76 | 0.99 | 10.5 |
| 4/25/2015 13:35:11 | 47.57 | 47.07 | 349 | 1.79 | 1.01 | 19.1 |
| 4/25/2015 13:35:12 | 47.90 | 47.40 | 384 | 1.79 | 1.03 | 21.0 |
| 4/25/2015 13:35:13 | 48.23 | 47.73 | 369 | 1.69 | 0.93 | 20.2 |
| 4/25/2015 13:35:57 | 48.56 | 48.06 | 0 | 1.76 | 0.86 | 0.0 |
| 4/25/2015 13:35:57 | 48.88 | 48.38 | 88 | 1.77 | 0.94 | 4.8 |
| 4/25/2015 13:35:59 | 49.21 | 48.71 | 288 | 1.79 | 0.87 | 15.8 |
| 4/25/2015 13:35:59 | 49.54 | 49.04 | 388 | 1.78 | 0.97 | 21.2 |
| 4/25/2015 13:36:00 | 49.87 | 49.37 | 468 | 1.77 | 1.19 | 25.6 |
| 4/25/2015 13:36:02 | 50.20 | 49.70 | 177 | 1.74 | 0.97 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:36:04 | 50.53 | 50.03 | 213 | 1.77 | 1.18 | 11.6 |
| 4/25/2015 | 13:36:24 | 50.85 | 50.35 | 17 | 1.77 | 1.18 | 0.9 |
| 4/25/2015 | 13:36:59 | 51.18 | 50.68 | 0 | 1.78 | 1.14 | 0.0 |
| 4/25/2015 | 13:37:01 | 51.51 | 51.01 | 79 | 1.78 | 1.01 | 4.3 |
| 4/25/2015 | 13:37:10 | 51.84 | 51.34 | 24 | 1.79 | 0.95 | 1.3 |
| 4/25/2015 | 13:37:37 | 52.17 | 51.67 | 24 | 1.77 | 1.09 | 1.3 |
| 4/25/2015 | 13:37:39 | 52.49 | 51.99 | 197 | 1.79 | 1.07 | 10.8 |
| 4/25/2015 | 13:37:56 | 52.82 | 52.32 | 0 | 1.76 | 1.14 | 0.0 |
| 4/25/2015 | 13:37:57 | 53.15 | 52.65 | 128 | 1.73 | 1.09 | 7.0 |
| 4/25/2015 | 13:37:58 | 53.48 | 52.98 | 303 | 1.75 | 1.13 | 16.6 |
| 4/25/2015 | 13:37:59 | 53.81 | 53.31 | 277 | 1.78 | 1.28 | 15.2 |
| 4/25/2015 | 13:38:01 | 54.13 | 53.63 | 244 | 1.74 | 1.12 | 13.4 |
| 4/25/2015 | 13:38:03 | 54.46 | 53.96 | 246 | 1.76 | 1.05 | 13.5 |
| 4/25/2015 | 13:38:04 | 54.79 | 54.29 | 262 | 1.80 | 1.07 | 14.3 |
| 4/25/2015 | 13:38:05 | 55.12 | 54.62 | 277 | 1.78 | 0.94 | 15.2 |
| 4/25/2015 | 13:38:06 | 55.45 | 54.95 | 295 | 1.77 | 0.91 | 16.2 |
| 4/25/2015 | 13:38:07 | 55.77 | 55.27 | 305 | 1.79 | 1.13 | 16.7 |
| 4/25/2015 | 13:38:08 | 55.86 | 55.36 | 292 | 1.78 | 1.14 | 16.0 |

## H234 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:31:51

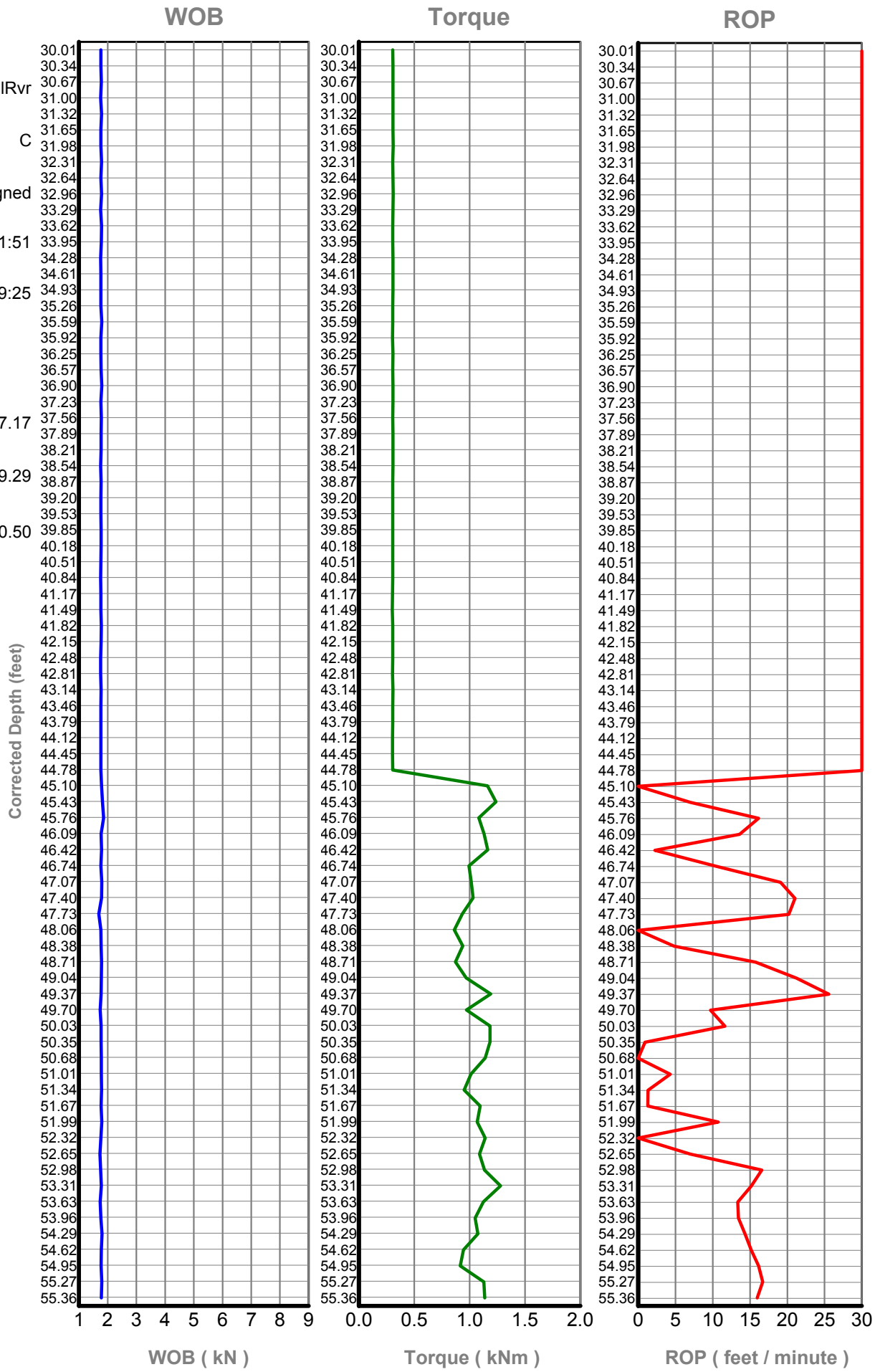
**End Date:**
4/25/2015 13:49:25

**Operator Note:**
'0.5 0,6 C Auto Complete'

**Northing:**
366,537.17

**Easting:**
250,749.29

**Tide (feet):**
0.50



## Hole: H235 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 8:01:12 | 35.43 | 30.03 | 795 | 0.41 | 0.33 | 43.5 |
| 4/25/2015 8:01:12 | 35.76 | 30.36 | 790 | 0.41 | 0.33 | 43.2 |
| 4/25/2015 8:01:13 | 36.09 | 30.69 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:13 | 36.42 | 31.02 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:14 | 36.75 | 31.35 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:15 | 37.07 | 31.67 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:15 | 37.40 | 32.00 | 779 | 0.41 | 0.32 | 42.6 |
| 4/25/2015 8:01:15 | 37.73 | 32.33 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:16 | 38.06 | 32.66 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:16 | 38.39 | 32.99 | 785 | 0.41 | 0.33 | 42.9 |
| 4/25/2015 8:01:17 | 38.71 | 33.31 | 786 | 0.41 | 0.32 | 43.0 |
| 4/25/2015 8:01:17 | 39.04 | 33.64 | 797 | 0.41 | 0.33 | 43.6 |
| 4/25/2015 8:01:18 | 39.37 | 33.97 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:18 | 39.70 | 34.30 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:18 | 40.03 | 34.63 | 795 | 0.41 | 0.33 | 43.5 |
| 4/25/2015 8:01:19 | 40.35 | 34.95 | 797 | 0.41 | 0.33 | 43.6 |
| 4/25/2015 8:01:19 | 40.68 | 35.28 | 798 | 0.41 | 0.33 | 43.6 |
| 4/25/2015 8:01:20 | 41.01 | 35.61 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:20 | 41.34 | 35.94 | 789 | 0.41 | 0.33 | 43.2 |
| 4/25/2015 8:01:21 | 41.67 | 36.27 | 784 | 0.41 | 0.32 | 42.9 |
| 4/25/2015 8:01:21 | 41.99 | 36.59 | 784 | 0.41 | 0.32 | 42.9 |
| 4/25/2015 8:01:21 | 42.32 | 36.92 | 795 | 0.41 | 0.33 | 43.5 |
| 4/25/2015 8:01:22 | 42.65 | 37.25 | 792 | 0.41 | 0.33 | 43.3 |
| 4/25/2015 8:01:22 | 42.98 | 37.58 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:23 | 43.31 | 37.91 | 790 | 0.41 | 0.33 | 43.2 |
| 4/25/2015 8:01:23 | 43.64 | 38.24 | 795 | 0.41 | 0.32 | 43.5 |
| 4/25/2015 8:01:24 | 43.96 | 38.56 | 792 | 0.41 | 0.32 | 43.3 |
| 4/25/2015 8:01:25 | 44.29 | 38.89 | 789 | 0.43 | 0.33 | 43.2 |
| 4/25/2015 8:01:25 | 44.62 | 39.22 | 789 | 0.43 | 0.33 | 43.2 |
| 4/25/2015 8:01:25 | 44.95 | 39.55 | 785 | 0.41 | 0.33 | 42.9 |
| 4/25/2015 8:01:26 | 45.28 | 39.88 | 797 | 0.41 | 0.33 | 43.6 |
| 4/25/2015 8:01:26 | 45.60 | 40.20 | 787 | 0.41 | 0.33 | 43.0 |
| 4/25/2015 8:01:27 | 45.93 | 40.53 | 784 | 0.33 | 0.33 | 42.8 |
| 4/25/2015 8:01:27 | 46.26 | 40.86 | 784 | 0.41 | 0.32 | 42.8 |
| 4/25/2015 8:01:28 | 46.59 | 41.19 | 789 | 0.41 | 0.32 | 43.2 |
| 4/25/2015 8:01:28 | 46.92 | 41.52 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:29 | 47.24 | 41.84 | 783 | 0.41 | 0.33 | 42.8 |
| 4/25/2015 8:01:29 | 47.57 | 42.17 | 786 | 0.38 | 0.32 | 43.0 |
| 4/25/2015 8:01:29 | 47.90 | 42.50 | 784 | 0.41 | 0.33 | 42.9 |
| 4/25/2015 8:01:30 | 48.23 | 42.83 | 789 | 0.41 | 0.33 | 43.1 |
| 4/25/2015 8:01:30 | 48.56 | 43.16 | 780 | 0.41 | 0.33 | 42.7 |
| 4/25/2015 8:01:31 | 48.88 | 43.48 | 780 | 0.41 | 0.33 | 42.7 |
| 4/25/2015 8:01:31 | 49.21 | 43.81 | 768 | 0.41 | 0.33 | 42.0 |
| 4/25/2015 8:01:32 | 49.54 | 44.14 | 768 | 0.41 | 0.33 | 42.0 |
| 4/25/2015 8:01:32 | 49.87 | 44.47 | 768 | 0.41 | 0.33 | 42.0 |
| 4/25/2015 8:01:32 | 50.20 | 44.80 | 775 | 0.41 | 0.33 | 42.4 |
| 4/25/2015 8:01:41 | 50.53 | 45.13 | 77 | 4.53 | 0.36 | 4.2 |
| 4/25/2015 8:01:42 | 50.85 | 45.45 | 231 | 3.81 | 0.36 | 12.6 |
| 4/25/2015 8:01:43 | 51.18 | 45.78 | 316 | 3.67 | 0.36 | 17.3 |
| 4/25/2015 8:01:44 | 51.51 | 46.11 | 382 | 4.83 | 0.36 | 20.9 |
| 4/25/2015 8:01:45 | 51.84 | 46.44 | 385 | 3.56 | 0.35 | 21.0 |
| 4/25/2015 8:01:46 | 52.17 | 46.77 | 405 | 2.86 | 0.35 | 22.2 |
| 4/25/2015 8:01:47 | 52.49 | 47.09 | 474 | 2.95 | 0.35 | 25.9 |
| 4/25/2015 8:01:47 | 52.82 | 47.42 | 512 | 2.61 | 0.34 | 28.0 |
| 4/25/2015 8:01:48 | 53.15 | 47.75 | 555 | 3.22 | 0.34 | 30.3 |
| 4/25/2015 8:01:48 | 53.48 | 48.08 | 569 | 2.98 | 0.35 | 31.1 |
| 4/25/2015 8:01:49 | 53.81 | 48.41 | 569 | 3.74 | 0.36 | 31.1 |
| 4/25/2015 8:01:50 | 54.13 | 48.73 | 521 | 4.28 | 0.37 | 28.5 |
| 4/25/2015 8:01:51 | 54.46 | 49.06 | 383 | 5.74 | 0.39 | 21.0 |
| 4/25/2015 8:01:53 | 54.79 | 49.39 | 188 | 3.58 | 0.38 | 10.3 |
| 4/25/2015 8:01:54 | 55.12 | 49.72 | 204 | 2.88 | 0.34 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 8:02:17 | 55.45 | 50.05 | 87 | 3.86 | 0.36 | 4.8 |
| 4/25/2015 | 8:02:18 | 55.77 | 50.37 | 169 | 2.44 | 0.34 | 9.2 |
| 4/25/2015 | 8:02:18 | 56.10 | 50.70 | 169 | 2.46 | 0.34 | 9.2 |
| 4/25/2015 | 8:02:19 | 56.43 | 51.03 | 289 | 2.75 | 0.35 | 15.8 |
| 4/25/2015 | 8:02:28 | 56.76 | 51.36 | 0 | 5.93 | 0.38 | 0.0 |
| 4/25/2015 | 8:02:29 | 57.09 | 51.69 | 110 | 7.97 | 0.37 | 6.0 |
| 4/25/2015 | 8:02:55 | 57.41 | 52.01 | 0 | 4.67 | 0.39 | 0.0 |
| 4/25/2015 | 8:02:57 | 57.74 | 52.34 | 128 | 4.91 | 0.37 | 7.0 |
| 4/25/2015 | 8:02:58 | 58.07 | 52.67 | 242 | 3.35 | 0.37 | 13.3 |
| 4/25/2015 | 8:03:02 | 58.40 | 53.00 | 85 | 3.52 | 0.39 | 4.7 |
| 4/25/2015 | 8:03:05 | 58.73 | 53.33 | 105 | 3.75 | 0.39 | 5.7 |
| 4/25/2015 | 8:03:09 | 59.06 | 53.66 | 111 | 3.67 | 0.39 | 6.1 |
| 4/25/2015 | 8:03:12 | 59.38 | 53.98 | 103 | 3.50 | 0.38 | 5.6 |
| 4/25/2015 | 8:03:16 | 59.71 | 54.31 | 80 | 3.34 | 0.39 | 4.4 |
| 4/25/2015 | 8:03:23 | 60.04 | 54.64 | 66 | 3.42 | 0.39 | 3.6 |
| 4/25/2015 | 8:03:27 | 60.37 | 54.97 | 66 | 3.46 | 0.38 | 3.6 |
| 4/25/2015 | 8:03:32 | 60.61 | 55.21 | 70 | 3.63 | 0.39 | 3.8 |

## H235 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 7:59:06

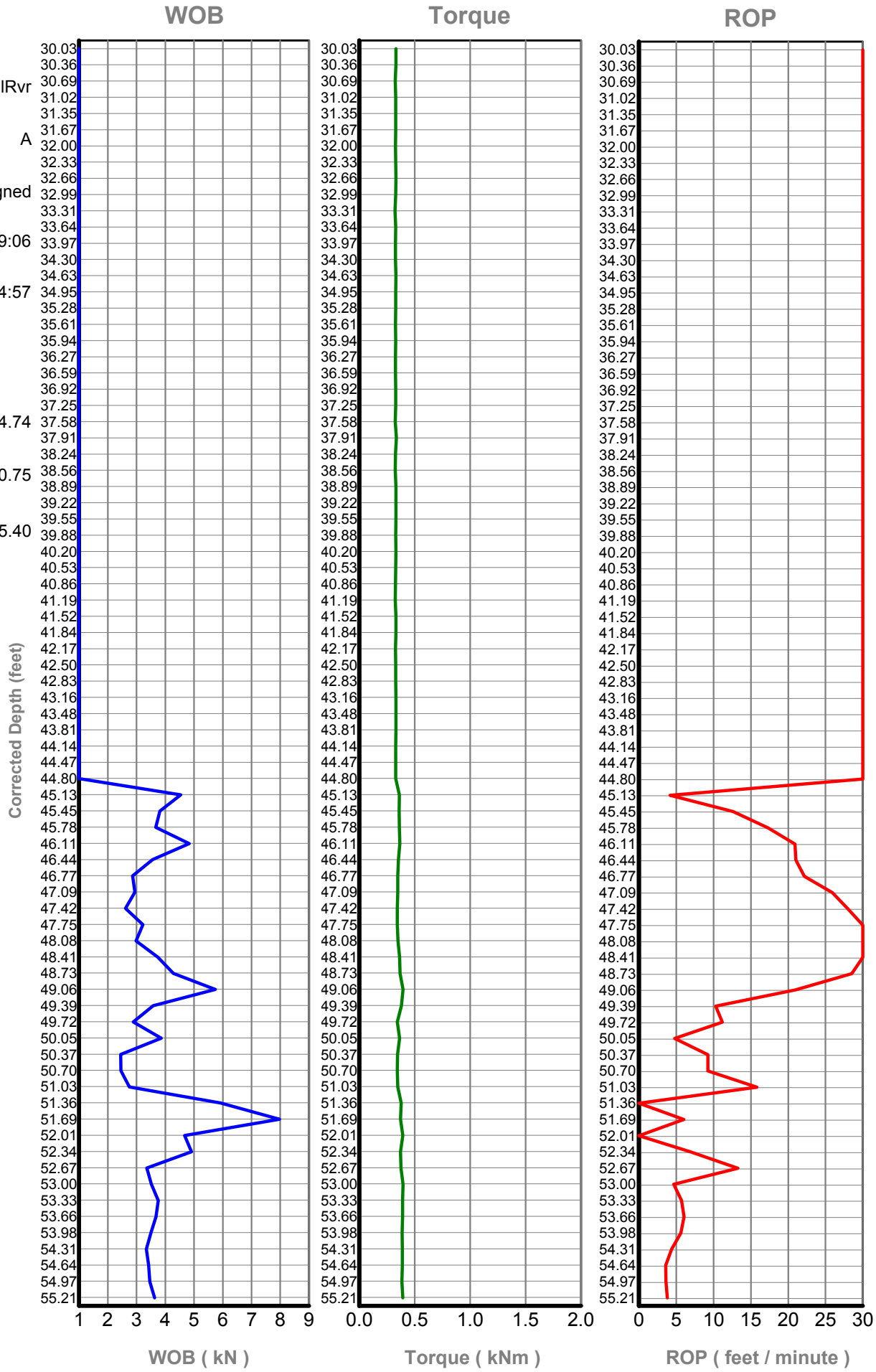
**End Date:**
4/25/2015 8:04:57

**Operator Note:**
'5.4 5. 6 b Auto Complete'

**Northing:**
366,584.74

**Easting:**
250,820.75

**Tide (feet):**
5.40



## Hole: H236 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 7:54:59 | 35.76 | 30.26 | 694 | 0.43 | 0.34 | 37.9 |
| 4/25/2015 7:54:59 | 36.09 | 30.59 | 706 | 0.43 | 0.34 | 38.6 |
| 4/25/2015 7:55:00 | 36.42 | 30.92 | 706 | 0.44 | 0.34 | 38.6 |
| 4/25/2015 7:55:01 | 36.75 | 31.25 | 693 | 0.43 | 0.34 | 37.9 |
| 4/25/2015 7:55:01 | 37.07 | 31.57 | 685 | 0.43 | 0.34 | 37.4 |
| 4/25/2015 7:55:02 | 37.40 | 31.90 | 675 | 0.43 | 0.34 | 36.9 |
| 4/25/2015 7:55:02 | 37.73 | 32.23 | 688 | 0.50 | 0.34 | 37.6 |
| 4/25/2015 7:55:03 | 38.06 | 32.56 | 688 | 0.45 | 0.34 | 37.6 |
| 4/25/2015 7:55:03 | 38.39 | 32.89 | 698 | 0.48 | 0.34 | 38.2 |
| 4/25/2015 7:55:04 | 38.71 | 33.21 | 703 | 0.49 | 0.34 | 38.4 |
| 4/25/2015 7:55:04 | 39.04 | 33.54 | 712 | 0.45 | 0.34 | 38.9 |
| 4/25/2015 7:55:05 | 39.37 | 33.87 | 716 | 0.45 | 0.34 | 39.1 |
| 4/25/2015 7:55:05 | 39.70 | 34.20 | 704 | 0.44 | 0.34 | 38.5 |
| 4/25/2015 7:55:06 | 40.03 | 34.53 | 696 | 0.45 | 0.34 | 38.1 |
| 4/25/2015 7:55:06 | 40.35 | 34.85 | 689 | 0.44 | 0.34 | 37.7 |
| 4/25/2015 7:55:07 | 40.68 | 35.18 | 689 | 0.43 | 0.34 | 37.7 |
| 4/25/2015 7:55:07 | 41.01 | 35.51 | 696 | 0.43 | 0.34 | 38.1 |
| 4/25/2015 7:55:08 | 41.34 | 35.84 | 703 | 0.43 | 0.34 | 38.4 |
| 4/25/2015 7:55:08 | 41.67 | 36.17 | 715 | 0.43 | 0.34 | 39.1 |
| 4/25/2015 7:55:09 | 41.99 | 36.49 | 700 | 0.43 | 0.34 | 38.3 |
| 4/25/2015 7:55:10 | 42.32 | 36.82 | 709 | 0.43 | 0.34 | 38.8 |
| 4/25/2015 7:55:10 | 42.65 | 37.15 | 697 | 0.43 | 0.34 | 38.1 |
| 4/25/2015 7:55:11 | 42.98 | 37.48 | 697 | 0.44 | 0.34 | 38.1 |
| 4/25/2015 7:55:11 | 43.31 | 37.81 | 693 | 0.45 | 0.34 | 37.9 |
| 4/25/2015 7:55:12 | 43.64 | 38.14 | 693 | 0.44 | 0.34 | 37.9 |
| 4/25/2015 7:55:12 | 43.96 | 38.46 | 700 | 0.44 | 0.34 | 38.3 |
| 4/25/2015 7:55:13 | 44.29 | 38.79 | 719 | 0.44 | 0.34 | 39.3 |
| 4/25/2015 7:55:13 | 44.62 | 39.12 | 702 | 0.46 | 0.34 | 38.4 |
| 4/25/2015 7:55:14 | 44.95 | 39.45 | 699 | 0.45 | 0.34 | 38.2 |
| 4/25/2015 7:55:14 | 45.28 | 39.78 | 708 | 0.45 | 0.34 | 38.7 |
| 4/25/2015 7:55:15 | 45.60 | 40.10 | 708 | 0.45 | 0.34 | 38.7 |
| 4/25/2015 7:55:15 | 45.93 | 40.43 | 687 | 0.45 | 0.34 | 37.5 |
| 4/25/2015 7:55:16 | 46.26 | 40.76 | 687 | 0.45 | 0.34 | 37.5 |
| 4/25/2015 7:55:16 | 46.59 | 41.09 | 695 | 0.44 | 0.34 | 38.0 |
| 4/25/2015 7:55:17 | 46.92 | 41.42 | 696 | 0.45 | 0.34 | 38.1 |
| 4/25/2015 7:55:17 | 47.24 | 41.74 | 688 | 0.44 | 0.34 | 37.6 |
| 4/25/2015 7:55:18 | 47.57 | 42.07 | 688 | 0.45 | 0.34 | 37.6 |
| 4/25/2015 7:55:18 | 47.90 | 42.40 | 688 | 0.45 | 0.34 | 37.6 |
| 4/25/2015 7:55:18 | 48.23 | 42.73 | 696 | 0.44 | 0.34 | 38.0 |
| 4/25/2015 7:55:19 | 48.56 | 43.06 | 703 | 0.45 | 0.34 | 38.4 |
| 4/25/2015 7:55:19 | 48.88 | 43.38 | 691 | 0.44 | 0.34 | 37.8 |
| 4/25/2015 7:55:20 | 49.21 | 43.71 | 698 | 0.44 | 0.34 | 38.2 |
| 4/25/2015 7:55:21 | 49.54 | 44.04 | 713 | 0.48 | 0.34 | 39.0 |
| 4/25/2015 7:55:21 | 49.87 | 44.37 | 698 | 0.44 | 0.34 | 38.2 |
| 4/25/2015 7:55:22 | 50.20 | 44.70 | 697 | 0.44 | 0.34 | 38.1 |
| 4/25/2015 7:56:20 | 50.53 | 45.03 | 0 | 4.00 | 0.36 | 0.0 |
| 4/25/2015 7:56:25 | 50.85 | 45.35 | 40 | 6.47 | 0.38 | 2.2 |
| 4/25/2015 7:56:31 | 51.18 | 45.68 | 17 | 8.02 | 0.36 | 0.9 |
| 4/25/2015 7:56:31 | 51.51 | 46.01 | 120 | 6.43 | 0.35 | 6.6 |
| 4/25/2015 7:56:34 | 51.84 | 46.34 | 286 | 5.62 | 0.38 | 15.6 |
| 4/25/2015 7:56:35 | 52.17 | 46.67 | 217 | 6.35 | 0.38 | 11.8 |
| 4/25/2015 7:56:37 | 52.49 | 46.99 | 237 | 3.75 | 0.36 | 13.0 |
| 4/25/2015 7:56:37 | 52.82 | 47.32 | 266 | 4.07 | 0.37 | 14.5 |
| 4/25/2015 7:56:43 | 53.15 | 47.65 | 57 | 3.91 | 0.36 | 3.1 |
| 4/25/2015 7:56:44 | 53.48 | 47.98 | 234 | 4.80 | 0.36 | 12.8 |
| 4/25/2015 7:56:45 | 53.81 | 48.31 | 385 | 4.56 | 0.36 | 21.0 |
| 4/25/2015 7:56:46 | 54.13 | 48.63 | 399 | 3.87 | 0.36 | 21.8 |
| 4/25/2015 7:56:47 | 54.46 | 48.96 | 384 | 3.32 | 0.36 | 21.0 |
| 4/25/2015 7:56:48 | 54.79 | 49.29 | 431 | 3.01 | 0.36 | 23.6 |
| 4/25/2015 7:56:48 | 55.12 | 49.62 | 449 | 2.93 | 0.35 | 24.5 |
| 4/25/2015 7:56:49 | 55.45 | 49.95 | 481 | 2.99 | 0.36 | 26.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 7:56:50 | 55.77 | 50.27 | 495 | 3.33 | 0.36 | 27.1 |
| 4/25/2015 | 7:56:51 | 56.10 | 50.60 | 442 | 3.59 | 0.38 | 24.2 |
| 4/25/2015 | 7:57:06 | 56.43 | 50.93 | 33 | 3.70 | 0.39 | 1.8 |
| 4/25/2015 | 7:57:15 | 56.76 | 51.26 | 41 | 3.69 | 0.40 | 2.2 |
| 4/25/2015 | 7:57:25 | 57.09 | 51.59 | 37 | 3.36 | 0.39 | 2.0 |
| 4/25/2015 | 7:57:27 | 57.19 | 51.69 | 46 | 3.56 | 0.40 | 2.5 |

## H236 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 7:52:13

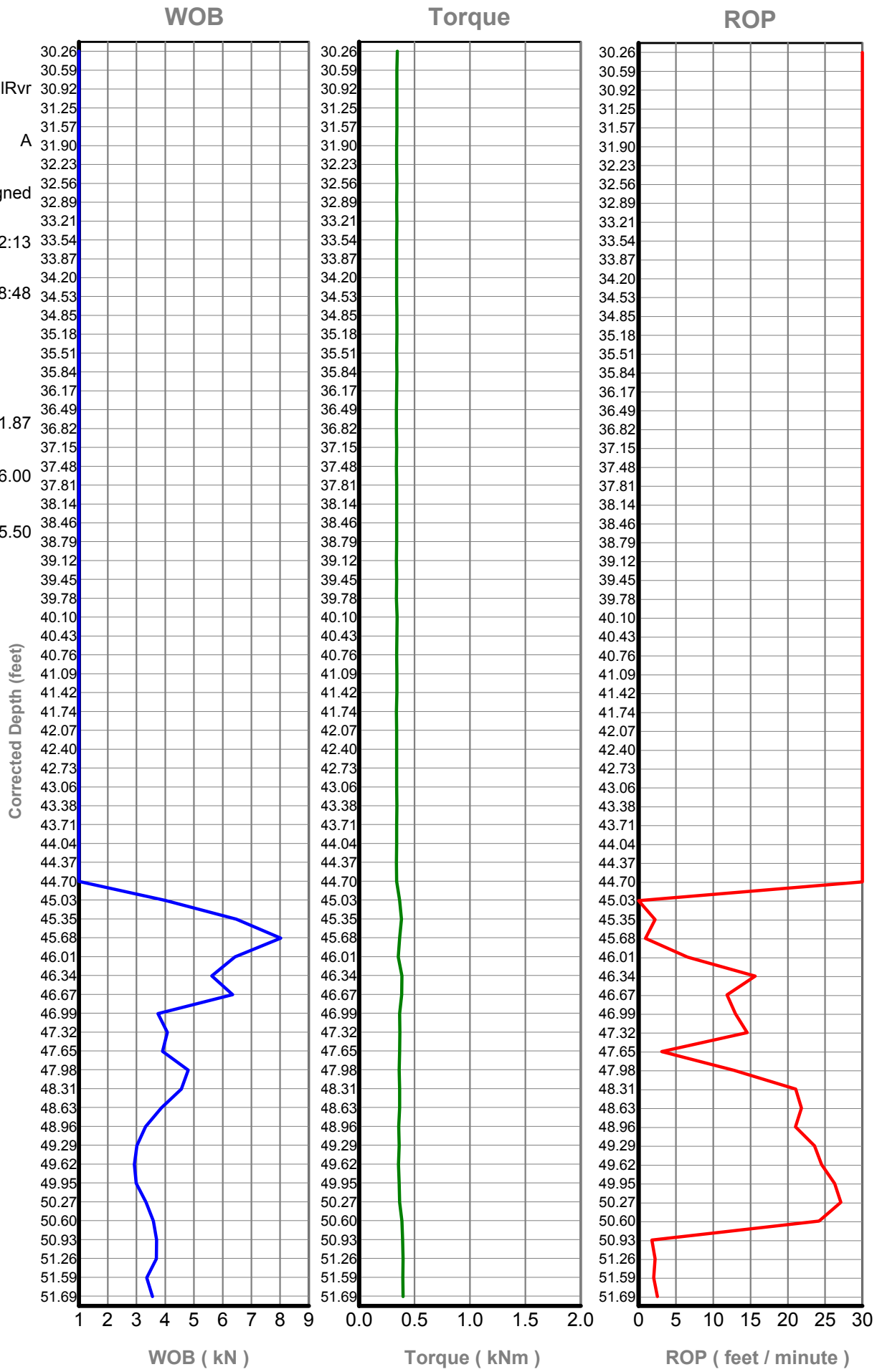
**End Date:**
4/25/2015 7:58:48

**Operator Note:**
'5.5 5.6 b Rock'

**Northing:**
366,621.87

**Easting:**
250,866.00

**Tide (feet):**
5.50



## Hole: H237 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 8:01:43 | 35.43 | 30.03 | 579 | 1.94 | 0.33 | 31.7 |
| 4/25/2015 8:01:44 | 35.76 | 30.36 | 577 | 1.99 | 0.34 | 31.6 |
| 4/25/2015 8:01:45 | 36.09 | 30.69 | 577 | 1.99 | 0.34 | 31.6 |
| 4/25/2015 8:01:44 | 36.42 | 31.02 | 574 | 1.97 | 0.34 | 31.4 |
| 4/25/2015 8:01:45 | 36.75 | 31.35 | 573 | 1.98 | 0.34 | 31.3 |
| 4/25/2015 8:01:45 | 37.07 | 31.67 | 577 | 1.97 | 0.34 | 31.5 |
| 4/25/2015 8:01:46 | 37.40 | 32.00 | 575 | 1.98 | 0.34 | 31.4 |
| 4/25/2015 8:01:47 | 37.73 | 32.33 | 575 | 1.94 | 0.34 | 31.4 |
| 4/25/2015 8:01:48 | 38.06 | 32.66 | 576 | 1.97 | 0.34 | 31.5 |
| 4/25/2015 8:01:48 | 38.39 | 32.99 | 577 | 1.98 | 0.34 | 31.5 |
| 4/25/2015 8:01:49 | 38.71 | 33.31 | 571 | 1.94 | 0.34 | 31.2 |
| 4/25/2015 8:01:50 | 39.04 | 33.64 | 567 | 1.93 | 0.34 | 31.0 |
| 4/25/2015 8:01:50 | 39.37 | 33.97 | 578 | 1.97 | 0.34 | 31.6 |
| 4/25/2015 8:01:51 | 39.70 | 34.30 | 572 | 1.97 | 0.34 | 31.3 |
| 4/25/2015 8:01:51 | 40.03 | 34.63 | 572 | 1.94 | 0.34 | 31.3 |
| 4/25/2015 8:01:52 | 40.35 | 34.95 | 575 | 1.95 | 0.33 | 31.5 |
| 4/25/2015 8:01:52 | 40.68 | 35.28 | 582 | 2.00 | 0.34 | 31.8 |
| 4/25/2015 8:01:53 | 41.01 | 35.61 | 581 | 2.00 | 0.34 | 31.8 |
| 4/25/2015 8:01:54 | 41.34 | 35.94 | 578 | 1.98 | 0.34 | 31.6 |
| 4/25/2015 8:01:54 | 41.67 | 36.27 | 578 | 1.97 | 0.34 | 31.6 |
| 4/25/2015 8:01:55 | 41.99 | 36.59 | 575 | 1.95 | 0.34 | 31.4 |
| 4/25/2015 8:01:55 | 42.32 | 36.92 | 578 | 1.99 | 0.34 | 31.6 |
| 4/25/2015 8:01:56 | 42.65 | 37.25 | 572 | 1.98 | 0.34 | 31.3 |
| 4/25/2015 8:01:57 | 42.98 | 37.58 | 572 | 1.97 | 0.34 | 31.3 |
| 4/25/2015 8:01:57 | 43.31 | 37.91 | 579 | 1.98 | 0.34 | 31.6 |
| 4/25/2015 8:01:58 | 43.64 | 38.24 | 575 | 1.94 | 0.34 | 31.5 |
| 4/25/2015 8:01:59 | 43.96 | 38.56 | 569 | 1.98 | 0.34 | 31.1 |
| 4/25/2015 8:02:00 | 44.29 | 38.89 | 575 | 1.95 | 0.34 | 31.5 |
| 4/25/2015 8:02:00 | 44.62 | 39.22 | 572 | 1.95 | 0.34 | 31.3 |
| 4/25/2015 8:02:01 | 44.95 | 39.55 | 572 | 1.99 | 0.34 | 31.3 |
| 4/25/2015 8:02:01 | 45.28 | 39.88 | 572 | 1.95 | 0.34 | 31.3 |
| 4/25/2015 8:02:02 | 45.60 | 40.20 | 560 | 1.95 | 0.34 | 30.6 |
| 4/25/2015 8:02:03 | 45.93 | 40.53 | 566 | 1.98 | 0.34 | 31.0 |
| 4/25/2015 8:02:03 | 46.26 | 40.86 | 563 | 1.93 | 0.34 | 30.8 |
| 4/25/2015 8:02:04 | 46.59 | 41.19 | 566 | 1.97 | 0.34 | 30.9 |
| 4/25/2015 8:02:04 | 46.92 | 41.52 | 566 | 1.96 | 0.34 | 30.9 |
| 4/25/2015 8:02:05 | 47.24 | 41.84 | 578 | 1.94 | 0.33 | 31.6 |
| 4/25/2015 8:02:06 | 47.57 | 42.17 | 575 | 1.97 | 0.34 | 31.5 |
| 4/25/2015 8:02:06 | 47.90 | 42.50 | 572 | 1.94 | 0.32 | 31.3 |
| 4/25/2015 8:02:07 | 48.23 | 42.83 | 576 | 1.99 | 0.34 | 31.5 |
| 4/25/2015 8:02:07 | 48.56 | 43.16 | 572 | 1.99 | 0.34 | 31.3 |
| 4/25/2015 8:02:08 | 48.88 | 43.48 | 575 | 1.95 | 0.34 | 31.5 |
| 4/25/2015 8:02:09 | 49.21 | 43.81 | 572 | 1.98 | 0.34 | 31.3 |
| 4/25/2015 8:02:10 | 49.54 | 44.14 | 569 | 1.95 | 0.34 | 31.1 |
| 4/25/2015 8:02:10 | 49.87 | 44.47 | 575 | 1.95 | 0.34 | 31.5 |
| 4/25/2015 8:02:27 | 50.20 | 44.80 | 71 | 1.93 | 1.16 | 3.9 |
| 4/25/2015 8:02:28 | 50.53 | 45.13 | 148 | 1.96 | 1.15 | 8.1 |
| 4/25/2015 8:02:30 | 50.85 | 45.45 | 356 | 1.98 | 1.14 | 19.5 |
| 4/25/2015 8:02:31 | 51.18 | 45.78 | 308 | 1.96 | 1.19 | 16.9 |
| 4/25/2015 8:02:32 | 51.51 | 46.11 | 270 | 1.95 | 1.21 | 14.8 |
| 4/25/2015 8:02:33 | 51.84 | 46.44 | 291 | 1.95 | 1.40 | 15.9 |
| 4/25/2015 8:02:35 | 52.17 | 46.77 | 211 | 1.98 | 1.20 | 11.6 |
| 4/25/2015 8:02:37 | 52.49 | 47.09 | 198 | 1.94 | 1.25 | 10.8 |
| 4/25/2015 8:02:38 | 52.82 | 47.42 | 234 | 1.97 | 1.25 | 12.8 |
| 4/25/2015 8:02:40 | 53.15 | 47.75 | 260 | 1.98 | 1.20 | 14.2 |
| 4/25/2015 8:02:41 | 53.48 | 48.08 | 241 | 2.00 | 1.19 | 13.2 |
| 4/25/2015 8:02:42 | 53.81 | 48.41 | 263 | 1.96 | 1.23 | 14.4 |
| 4/25/2015 8:02:43 | 54.13 | 48.73 | 306 | 1.99 | 1.14 | 16.8 |
| 4/25/2015 8:02:44 | 54.46 | 49.06 | 344 | 1.97 | 1.13 | 18.8 |
| 4/25/2015 8:02:45 | 54.79 | 49.39 | 365 | 1.98 | 1.14 | 20.0 |
| 4/25/2015 8:02:46 | 55.12 | 49.72 | 373 | 1.96 | 1.13 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 8:02:47 | 55.45 | 50.05 | 379 | 1.97 | 1.14 | 20.7 |
| 4/25/2015 | 8:02:48 | 55.77 | 50.37 | 333 | 1.98 | 1.45 | 18.2 |
| 4/25/2015 | 8:02:51 | 56.10 | 50.70 | 188 | 2.01 | 1.33 | 10.3 |
| 4/25/2015 | 8:02:57 | 56.43 | 51.03 | 86 | 1.98 | 1.16 | 4.7 |
| 4/25/2015 | 8:02:58 | 56.76 | 51.36 | 196 | 1.97 | 1.36 | 10.7 |
| 4/25/2015 | 8:02:59 | 57.09 | 51.69 | 269 | 1.98 | 1.20 | 14.7 |
| 4/25/2015 | 8:03:01 | 57.41 | 52.01 | 275 | 1.97 | 1.10 | 15.0 |
| 4/25/2015 | 8:03:02 | 57.74 | 52.34 | 298 | 1.96 | 1.08 | 16.3 |
| 4/25/2015 | 8:03:03 | 58.07 | 52.67 | 312 | 1.96 | 1.11 | 17.1 |
| 4/25/2015 | 8:03:05 | 58.40 | 53.00 | 245 | 1.98 | 1.21 | 13.4 |
| 4/25/2015 | 8:03:08 | 58.73 | 53.33 | 94 | 1.98 | 1.23 | 5.1 |
| 4/25/2015 | 8:03:12 | 59.06 | 53.66 | 104 | 1.98 | 1.23 | 5.7 |
| 4/25/2015 | 8:03:15 | 59.38 | 53.98 | 102 | 1.97 | 1.24 | 5.6 |
| 4/25/2015 | 8:03:19 | 59.71 | 54.31 | 95 | 1.99 | 1.28 | 5.2 |
| 4/25/2015 | 8:03:25 | 60.04 | 54.64 | 67 | 1.98 | 1.25 | 3.6 |
| 4/25/2015 | 8:03:30 | 60.37 | 54.97 | 78 | 1.97 | 1.31 | 4.3 |
| 4/25/2015 | 8:03:41 | 60.70 | 55.30 | 0 | 1.98 | 1.32 | 0.0 |
| 4/25/2015 | 8:22:07 | 61.02 | 55.62 | 0 | 1.92 | 0.27 | 0.0 |
| 4/25/2015 | 8:23:22 | 61.15 | 55.75 | 15 | 1.91 | 1.25 | 0.8 |

## H237 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 8:00:25

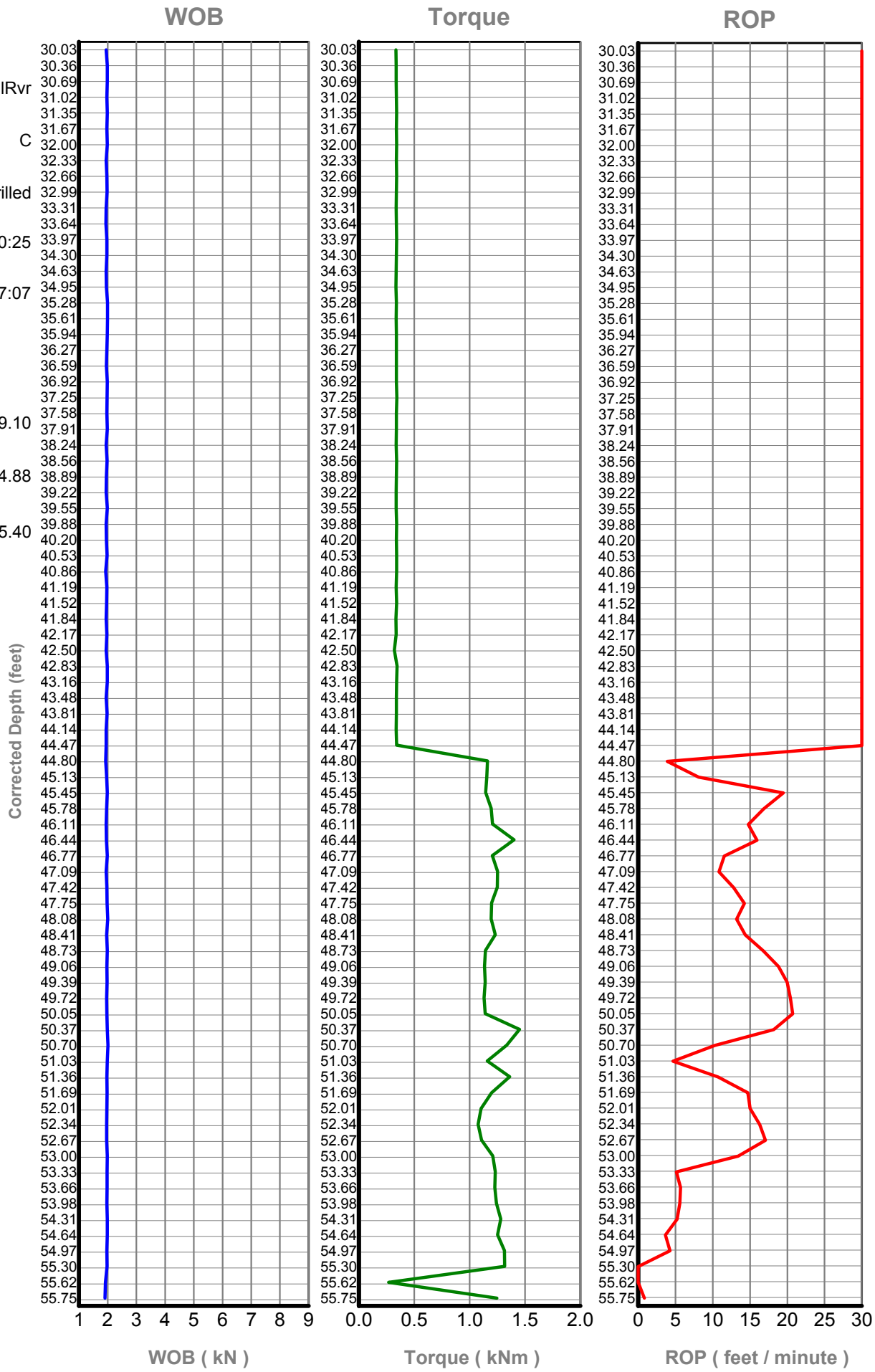
**End Date:**
4/25/2015 8:57:07

**Operator Note:**
'5.4 Auto Complete'

**Northing:**
366,669.10

**Easting:**
250,924.88

**Tide (feet):**
5.40



## Hole: H238 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:23:44 | 31.17 | 30.27 | 908 | 0.22 | 0.33 | 49.6 |
| 4/24/2015 23:23:44 | 31.50 | 30.60 | 899 | 0.22 | 0.32 | 49.2 |
| 4/24/2015 23:23:45 | 31.82 | 30.92 | 894 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 23:23:45 | 32.15 | 31.25 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 23:23:46 | 32.48 | 31.58 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 23:23:46 | 32.81 | 31.91 | 906 | 0.22 | 0.32 | 49.5 |
| 4/24/2015 23:23:46 | 33.14 | 32.24 | 901 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 23:23:47 | 33.46 | 32.56 | 912 | 0.22 | 0.32 | 49.9 |
| 4/24/2015 23:23:47 | 33.79 | 32.89 | 912 | 0.22 | 0.32 | 49.9 |
| 4/24/2015 23:23:47 | 34.12 | 33.22 | 920 | 0.22 | 0.32 | 50.3 |
| 4/24/2015 23:23:48 | 34.45 | 33.55 | 926 | 0.22 | 0.32 | 50.6 |
| 4/24/2015 23:23:48 | 34.78 | 33.88 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:23:49 | 35.11 | 34.21 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:23:49 | 35.43 | 34.53 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:23:49 | 35.76 | 34.86 | 902 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 23:23:50 | 36.09 | 35.19 | 905 | 0.21 | 0.32 | 49.5 |
| 4/24/2015 23:23:50 | 36.42 | 35.52 | 905 | 0.21 | 0.32 | 49.5 |
| 4/24/2015 23:23:51 | 36.75 | 35.85 | 905 | 0.21 | 0.32 | 49.5 |
| 4/24/2015 23:23:51 | 37.07 | 36.17 | 900 | 0.21 | 0.32 | 49.2 |
| 4/24/2015 23:23:51 | 37.40 | 36.50 | 895 | 0.21 | 0.32 | 48.9 |
| 4/24/2015 23:23:52 | 37.73 | 36.83 | 900 | 0.22 | 0.32 | 49.2 |
| 4/24/2015 23:23:52 | 38.06 | 37.16 | 900 | 0.22 | 0.32 | 49.2 |
| 4/24/2015 23:23:52 | 38.39 | 37.49 | 900 | 0.21 | 0.32 | 49.2 |
| 4/24/2015 23:23:53 | 38.71 | 37.81 | 898 | 0.22 | 0.32 | 49.1 |
| 4/24/2015 23:23:54 | 39.04 | 38.14 | 894 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 23:23:54 | 39.37 | 38.47 | 894 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 23:23:54 | 39.70 | 38.80 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:23:55 | 40.03 | 39.13 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:23:55 | 40.35 | 39.45 | 914 | 0.21 | 0.32 | 50.0 |
| 4/24/2015 23:23:56 | 40.68 | 39.78 | 914 | 0.21 | 0.32 | 50.0 |
| 4/24/2015 23:23:56 | 41.01 | 40.11 | 902 | 0.21 | 0.32 | 49.3 |
| 4/24/2015 23:23:56 | 41.34 | 40.44 | 902 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 23:23:57 | 41.67 | 40.77 | 914 | 0.22 | 0.32 | 50.0 |
| 4/24/2015 23:23:57 | 41.99 | 41.09 | 914 | 0.22 | 0.32 | 50.0 |
| 4/24/2015 23:23:57 | 42.32 | 41.42 | 899 | 0.21 | 0.32 | 49.2 |
| 4/24/2015 23:23:58 | 42.65 | 41.75 | 894 | 0.21 | 0.32 | 48.9 |
| 4/24/2015 23:23:58 | 42.98 | 42.08 | 897 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 23:23:59 | 43.31 | 42.41 | 897 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 23:23:59 | 43.64 | 42.74 | 910 | 0.22 | 0.32 | 49.7 |
| 4/24/2015 23:23:59 | 43.96 | 43.06 | 905 | 0.22 | 0.32 | 49.5 |
| 4/24/2015 23:24:00 | 44.29 | 43.39 | 905 | 0.21 | 0.32 | 49.5 |
| 4/24/2015 23:24:00 | 44.62 | 43.72 | 905 | 0.21 | 0.32 | 49.5 |
| 4/24/2015 23:24:00 | 44.95 | 44.05 | 911 | 0.21 | 0.32 | 49.8 |
| 4/24/2015 23:24:01 | 45.28 | 44.38 | 908 | 0.22 | 0.32 | 49.6 |
| 4/24/2015 23:24:01 | 45.60 | 44.70 | 910 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:24:02 | 45.93 | 45.03 | 910 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 23:24:02 | 46.26 | 45.36 | 902 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 23:24:02 | 46.59 | 45.69 | 896 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 23:24:03 | 46.92 | 46.02 | 893 | 0.20 | 0.36 | 48.8 |
| 4/24/2015 23:24:38 | 47.24 | 46.34 | 43 | 5.20 | 0.38 | 2.4 |
| 4/24/2015 23:24:42 | 47.57 | 46.67 | 78 | 3.67 | 0.36 | 4.3 |
| 4/24/2015 23:24:45 | 47.90 | 47.00 | 72 | 6.98 | 0.38 | 3.9 |
| 4/24/2015 23:24:48 | 48.23 | 47.33 | 131 | 3.56 | 0.37 | 7.1 |
| 4/24/2015 23:24:58 | 48.56 | 47.66 | 54 | 4.86 | 0.39 | 2.9 |
| 4/24/2015 23:25:05 | 48.88 | 47.98 | 121 | 3.15 | 0.37 | 6.6 |
| 4/24/2015 23:25:06 | 49.21 | 48.31 | 228 | 4.53 | 0.38 | 12.5 |
| 4/24/2015 23:25:11 | 49.54 | 48.64 | 59 | 4.34 | 0.39 | 3.2 |
| 4/24/2015 23:25:14 | 49.87 | 48.97 | 104 | 6.06 | 0.40 | 5.7 |
| 4/24/2015 23:25:19 | 50.20 | 49.30 | 76 | 4.26 | 0.37 | 4.2 |
| 4/24/2015 23:25:20 | 50.53 | 49.63 | 140 | 4.16 | 0.37 | 7.7 |
| 4/24/2015 23:25:29 | 50.85 | 49.95 | 0 | 2.87 | 0.36 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:25:30 | 51.18 | 50.28 | 83 | 3.35 | 0.37 | 4.5 |
| 4/24/2015 | 23:25:32 | 51.51 | 50.61 | 269 | 3.98 | 0.39 | 14.7 |
| 4/24/2015 | 23:25:36 | 51.84 | 50.94 | 58 | 4.13 | 0.38 | 3.1 |
| 4/24/2015 | 23:25:38 | 52.17 | 51.27 | 188 | 4.62 | 0.37 | 10.3 |
| 4/24/2015 | 23:25:39 | 52.49 | 51.59 | 313 | 3.06 | 0.37 | 17.1 |
| 4/24/2015 | 23:25:39 | 52.82 | 51.92 | 353 | 3.40 | 0.37 | 19.3 |
| 4/24/2015 | 23:25:41 | 53.15 | 52.25 | 349 | 4.12 | 0.37 | 19.1 |
| 4/24/2015 | 23:25:41 | 53.48 | 52.58 | 347 | 3.64 | 0.37 | 19.0 |
| 4/24/2015 | 23:25:42 | 53.81 | 52.91 | 368 | 2.33 | 0.35 | 20.1 |
| 4/24/2015 | 23:25:43 | 54.13 | 53.23 | 427 | 3.43 | 0.36 | 23.4 |
| 4/24/2015 | 23:25:44 | 54.46 | 53.56 | 482 | 3.58 | 0.37 | 26.4 |
| 4/24/2015 | 23:25:45 | 54.79 | 53.89 | 442 | 3.04 | 0.39 | 24.2 |
| 4/24/2015 | 23:25:49 | 55.12 | 54.22 | 94 | 3.45 | 0.40 | 5.1 |
| 4/24/2015 | 23:25:52 | 55.45 | 54.55 | 111 | 2.67 | 0.37 | 6.1 |
| 4/24/2015 | 23:25:54 | 55.77 | 54.87 | 198 | 3.39 | 0.39 | 10.8 |
| 4/24/2015 | 23:25:57 | 56.10 | 55.20 | 122 | 3.77 | 0.38 | 6.7 |
| 4/24/2015 | 23:26:01 | 56.37 | 55.47 | 66 | 5.12 | 0.38 | 3.6 |

## H238 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:21:05

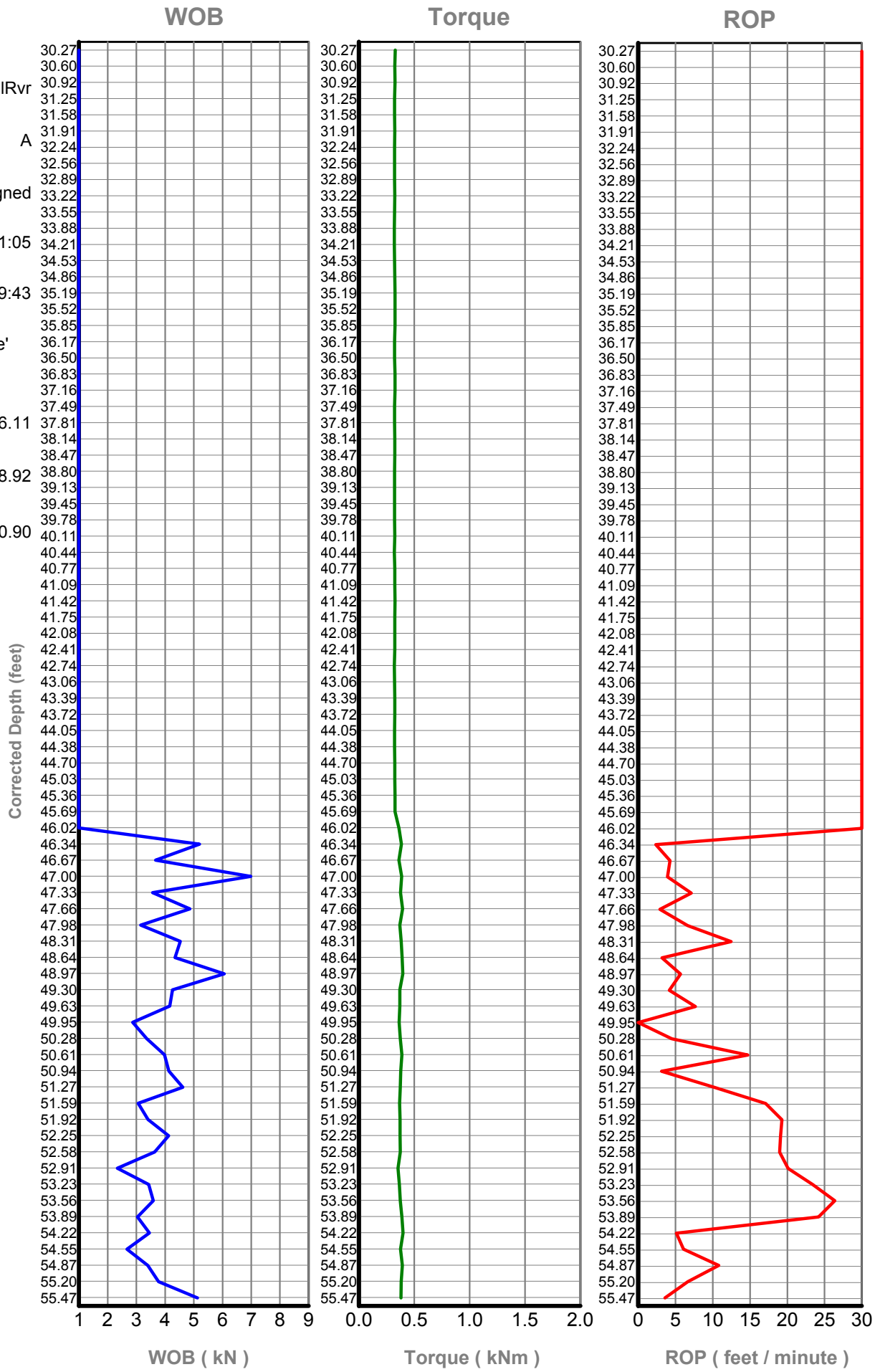
**End Date:**
4/24/2015 23:29:43

**Operator Note:**
'0.9 1.1 b Auto Complete'

**Northing:**
366,726.11

**Easting:**
250,988.92

**Tide (feet):**
0.90



## Hole: H239 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:15:50 | 31.17 | 30.07 | 862 | 0.90 | 0.33 | 47.1 |
| 4/24/2015 23:15:50 | 31.50 | 30.40 | 867 | 0.89 | 0.33 | 47.4 |
| 4/24/2015 23:15:50 | 31.82 | 30.72 | 862 | 0.90 | 0.33 | 47.1 |
| 4/24/2015 23:15:51 | 32.15 | 31.05 | 865 | 0.90 | 0.33 | 47.3 |
| 4/24/2015 23:15:51 | 32.48 | 31.38 | 868 | 0.90 | 0.33 | 47.4 |
| 4/24/2015 23:15:52 | 32.81 | 31.71 | 868 | 0.90 | 0.33 | 47.4 |
| 4/24/2015 23:15:52 | 33.14 | 32.04 | 868 | 0.90 | 0.33 | 47.4 |
| 4/24/2015 23:15:52 | 33.46 | 32.36 | 853 | 0.89 | 0.33 | 46.6 |
| 4/24/2015 23:15:53 | 33.79 | 32.69 | 853 | 0.90 | 0.33 | 46.6 |
| 4/24/2015 23:15:53 | 34.12 | 33.02 | 862 | 0.90 | 0.33 | 47.1 |
| 4/24/2015 23:15:54 | 34.45 | 33.35 | 862 | 0.90 | 0.33 | 47.1 |
| 4/24/2015 23:15:54 | 34.78 | 33.68 | 870 | 0.80 | 0.33 | 47.6 |
| 4/24/2015 23:15:55 | 35.11 | 34.01 | 862 | 0.22 | 0.33 | 47.1 |
| 4/24/2015 23:15:55 | 35.43 | 34.33 | 865 | 0.24 | 0.33 | 47.3 |
| 4/24/2015 23:15:56 | 35.76 | 34.66 | 865 | 0.24 | 0.33 | 47.3 |
| 4/24/2015 23:15:56 | 36.09 | 34.99 | 877 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:15:56 | 36.42 | 35.32 | 867 | 0.16 | 0.33 | 47.4 |
| 4/24/2015 23:15:57 | 36.75 | 35.65 | 851 | 0.22 | 0.33 | 46.5 |
| 4/24/2015 23:15:57 | 37.07 | 35.97 | 868 | 0.22 | 0.33 | 47.5 |
| 4/24/2015 23:15:58 | 37.40 | 36.30 | 868 | 0.22 | 0.33 | 47.5 |
| 4/24/2015 23:15:58 | 37.73 | 36.63 | 868 | 0.22 | 0.33 | 47.5 |
| 4/24/2015 23:15:58 | 38.06 | 36.96 | 874 | 0.22 | 0.32 | 47.8 |
| 4/24/2015 23:15:59 | 38.39 | 37.29 | 867 | 0.22 | 0.32 | 47.4 |
| 4/24/2015 23:15:59 | 38.71 | 37.61 | 867 | 0.22 | 0.32 | 47.4 |
| 4/24/2015 23:15:59 | 39.04 | 37.94 | 895 | 0.22 | 0.31 | 48.9 |
| 4/24/2015 23:16:00 | 39.37 | 38.27 | 886 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 23:16:00 | 39.70 | 38.60 | 889 | 0.22 | 0.33 | 48.6 |
| 4/24/2015 23:16:01 | 40.03 | 38.93 | 884 | 0.22 | 0.33 | 48.3 |
| 4/24/2015 23:16:01 | 40.35 | 39.25 | 884 | 0.22 | 0.33 | 48.3 |
| 4/24/2015 23:16:01 | 40.68 | 39.58 | 899 | 0.22 | 0.33 | 49.1 |
| 4/24/2015 23:16:02 | 41.01 | 39.91 | 879 | 0.24 | 0.32 | 48.1 |
| 4/24/2015 23:16:02 | 41.34 | 40.24 | 860 | 0.22 | 0.32 | 47.0 |
| 4/24/2015 23:16:03 | 41.67 | 40.57 | 860 | 0.22 | 0.32 | 47.0 |
| 4/24/2015 23:16:03 | 41.99 | 40.89 | 860 | 0.22 | 0.33 | 47.0 |
| 4/24/2015 23:16:03 | 42.32 | 41.22 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:16:04 | 42.65 | 41.55 | 873 | 0.22 | 0.33 | 47.8 |
| 4/24/2015 23:16:05 | 42.98 | 41.88 | 851 | 0.24 | 0.33 | 46.6 |
| 4/24/2015 23:16:05 | 43.31 | 42.21 | 851 | 0.24 | 0.33 | 46.6 |
| 4/24/2015 23:16:05 | 43.64 | 42.54 | 860 | 0.22 | 0.33 | 47.0 |
| 4/24/2015 23:16:06 | 43.96 | 42.86 | 860 | 0.21 | 0.33 | 47.0 |
| 4/24/2015 23:16:06 | 44.29 | 43.19 | 875 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:16:07 | 44.62 | 43.52 | 875 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:16:07 | 44.95 | 43.85 | 875 | 0.23 | 0.33 | 47.9 |
| 4/24/2015 23:16:07 | 45.28 | 44.18 | 866 | 0.22 | 0.33 | 47.4 |
| 4/24/2015 23:16:08 | 45.60 | 44.50 | 848 | 0.22 | 0.33 | 46.4 |
| 4/24/2015 23:16:08 | 45.93 | 44.83 | 848 | 0.22 | 0.33 | 46.4 |
| 4/24/2015 23:16:09 | 46.26 | 45.16 | 848 | 0.22 | 0.33 | 46.4 |
| 4/24/2015 23:16:09 | 46.59 | 45.49 | 879 | 0.22 | 0.33 | 48.1 |
| 4/24/2015 23:16:09 | 46.92 | 45.82 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 23:16:10 | 47.24 | 46.14 | 869 | 0.21 | 0.35 | 47.5 |
| 4/24/2015 23:17:03 | 47.57 | 46.47 | 24 | 3.24 | 0.40 | 1.3 |
| 4/24/2015 23:17:05 | 47.90 | 46.80 | 94 | 3.58 | 0.37 | 5.1 |
| 4/24/2015 23:17:09 | 48.23 | 47.13 | 56 | 3.73 | 0.39 | 3.0 |
| 4/24/2015 23:17:11 | 48.56 | 47.46 | 97 | 6.01 | 0.40 | 5.3 |
| 4/24/2015 23:17:12 | 48.88 | 47.78 | 150 | 3.05 | 0.37 | 8.2 |
| 4/24/2015 23:17:14 | 49.21 | 48.11 | 247 | 5.08 | 0.39 | 13.5 |
| 4/24/2015 23:17:18 | 49.54 | 48.44 | 77 | 4.85 | 0.38 | 4.2 |
| 4/24/2015 23:17:19 | 49.87 | 48.77 | 132 | 5.22 | 0.37 | 7.2 |
| 4/24/2015 23:17:20 | 50.20 | 49.10 | 277 | 3.13 | 0.36 | 15.1 |
| 4/24/2015 23:17:21 | 50.53 | 49.43 | 341 | 2.87 | 0.37 | 18.6 |
| 4/24/2015 23:17:22 | 50.85 | 49.75 | 422 | 2.92 | 0.37 | 23.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:17:23 | 51.18 | 50.08 | 379 | 3.03 | 0.36 | 20.7 |
| 4/24/2015 | 23:17:24 | 51.51 | 50.41 | 370 | 2.86 | 0.37 | 20.2 |
| 4/24/2015 | 23:17:25 | 51.84 | 50.74 | 354 | 4.11 | 0.38 | 19.4 |
| 4/24/2015 | 23:17:27 | 52.17 | 51.07 | 162 | 3.73 | 0.40 | 8.9 |
| 4/24/2015 | 23:17:34 | 52.49 | 51.39 | 9 | 4.11 | 0.39 | 0.5 |
| 4/24/2015 | 23:17:36 | 52.82 | 51.72 | 153 | 6.02 | 0.39 | 8.4 |
| 4/24/2015 | 23:17:39 | 53.15 | 52.05 | 104 | 3.79 | 0.36 | 5.7 |
| 4/24/2015 | 23:17:40 | 53.48 | 52.38 | 119 | 5.29 | 0.37 | 6.5 |
| 4/24/2015 | 23:17:47 | 53.81 | 52.71 | 33 | 3.77 | 0.37 | 1.8 |
| 4/24/2015 | 23:17:48 | 54.13 | 53.03 | 80 | 3.84 | 0.38 | 4.4 |
| 4/24/2015 | 23:17:50 | 54.46 | 53.36 | 158 | 3.36 | 0.37 | 8.7 |
| 4/24/2015 | 23:17:51 | 54.79 | 53.69 | 271 | 2.83 | 0.38 | 14.8 |
| 4/24/2015 | 23:17:55 | 55.12 | 54.02 | 96 | 3.08 | 0.40 | 5.2 |
| 4/24/2015 | 23:18:00 | 55.45 | 54.35 | 73 | 3.12 | 0.38 | 4.0 |
| 4/24/2015 | 23:18:01 | 55.77 | 54.67 | 146 | 4.57 | 0.37 | 8.0 |
| 4/24/2015 | 23:18:01 | 56.10 | 55.00 | 146 | 3.71 | 0.36 | 8.0 |
| 4/24/2015 | 23:18:03 | 56.40 | 55.30 | 274 | 6.43 | 0.40 | 15.0 |

## H239 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:12:47

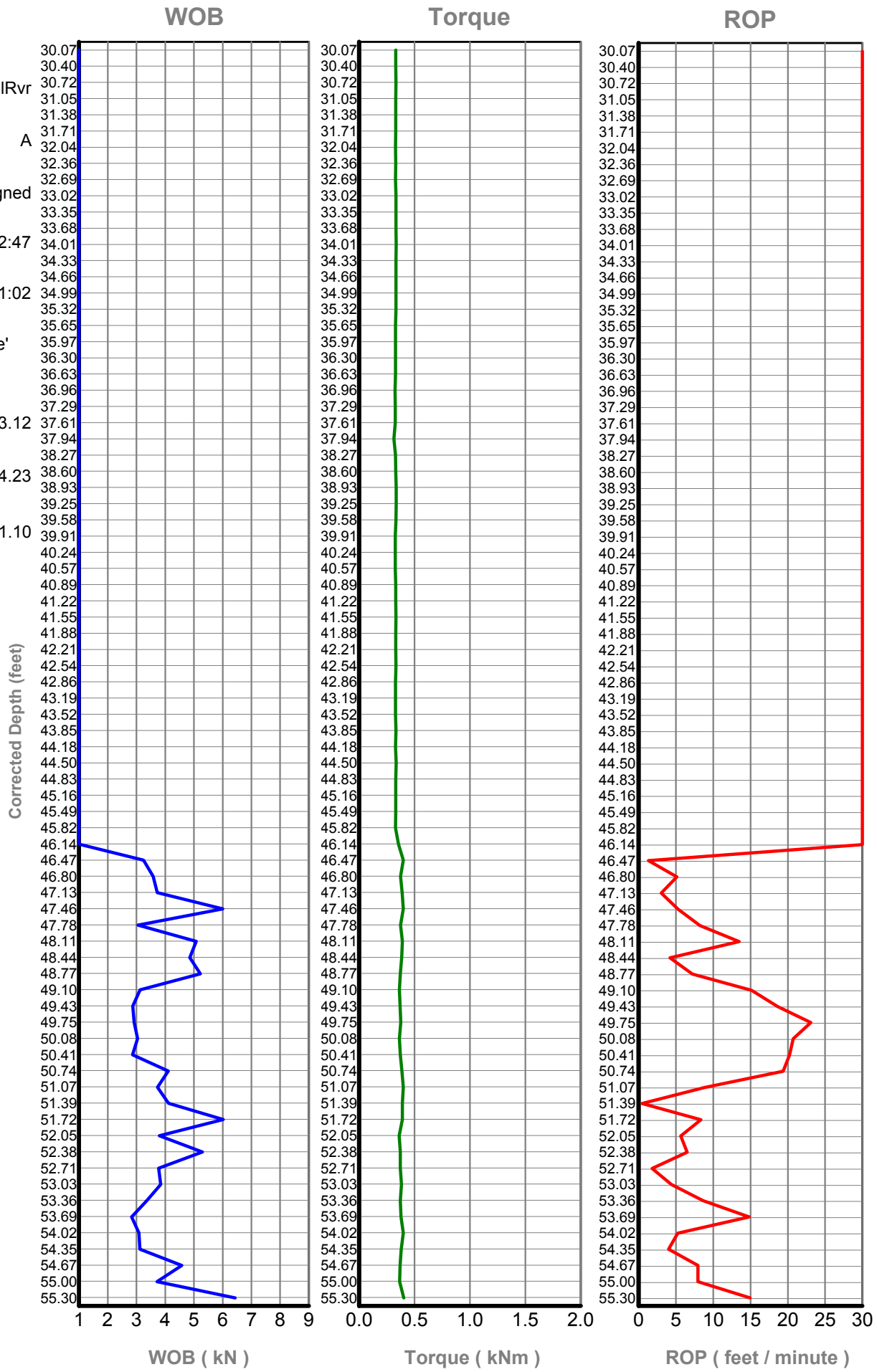
**End Date:**
4/24/2015 23:21:02

**Operator Note:**
'1.1 1.2 b Auto Complete'

**Northing:**
366,763.12

**Easting:**
251,034.23

**Tide (feet):**
1.10



## Hole: H24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 23:20:26 | 32.48 | 30.18 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:27 | 32.81 | 30.51 | 512 | 1.79 | 0.16 | 28.0 |
| 4/25/2015 23:20:28 | 33.14 | 30.84 | 512 | 1.80 | 0.16 | 28.0 |
| 4/25/2015 23:20:28 | 33.46 | 31.16 | 509 | 1.81 | 0.16 | 27.8 |
| 4/25/2015 23:20:29 | 33.79 | 31.49 | 512 | 1.81 | 0.16 | 28.0 |
| 4/25/2015 23:20:30 | 34.12 | 31.82 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:30 | 34.45 | 32.15 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:31 | 34.78 | 32.48 | 509 | 1.79 | 0.16 | 27.8 |
| 4/25/2015 23:20:32 | 35.11 | 32.81 | 509 | 1.80 | 0.16 | 27.8 |
| 4/25/2015 23:20:33 | 35.43 | 33.13 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:33 | 35.76 | 33.46 | 509 | 1.79 | 0.16 | 27.8 |
| 4/25/2015 23:20:34 | 36.09 | 33.79 | 506 | 1.80 | 0.16 | 27.7 |
| 4/25/2015 23:20:35 | 36.42 | 34.12 | 491 | 1.81 | 0.16 | 26.8 |
| 4/25/2015 23:20:35 | 36.75 | 34.45 | 491 | 1.79 | 0.16 | 26.8 |
| 4/25/2015 23:20:36 | 37.07 | 34.77 | 499 | 1.79 | 0.16 | 27.3 |
| 4/25/2015 23:20:37 | 37.40 | 35.10 | 502 | 1.79 | 0.16 | 27.5 |
| 4/25/2015 23:20:38 | 37.73 | 35.43 | 514 | 1.78 | 0.16 | 28.1 |
| 4/25/2015 23:20:38 | 38.06 | 35.76 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:39 | 38.39 | 36.09 | 506 | 1.80 | 0.16 | 27.7 |
| 4/25/2015 23:20:40 | 38.71 | 36.41 | 506 | 1.81 | 0.16 | 27.7 |
| 4/25/2015 23:20:40 | 39.04 | 36.74 | 506 | 1.78 | 0.16 | 27.7 |
| 4/25/2015 23:20:41 | 39.37 | 37.07 | 503 | 1.79 | 0.16 | 27.5 |
| 4/25/2015 23:20:42 | 39.70 | 37.40 | 503 | 1.79 | 0.16 | 27.5 |
| 4/25/2015 23:20:43 | 40.03 | 37.73 | 506 | 1.79 | 0.16 | 27.7 |
| 4/25/2015 23:20:43 | 40.35 | 38.05 | 506 | 1.80 | 0.16 | 27.7 |
| 4/25/2015 23:20:44 | 40.68 | 38.38 | 506 | 1.82 | 0.16 | 27.7 |
| 4/25/2015 23:20:45 | 41.01 | 38.71 | 506 | 1.78 | 0.16 | 27.7 |
| 4/25/2015 23:20:45 | 41.34 | 39.04 | 503 | 1.79 | 0.16 | 27.5 |
| 4/25/2015 23:20:46 | 41.67 | 39.37 | 497 | 1.79 | 0.16 | 27.2 |
| 4/25/2015 23:20:47 | 41.99 | 39.69 | 501 | 1.83 | 0.16 | 27.4 |
| 4/25/2015 23:20:47 | 42.32 | 40.02 | 500 | 1.81 | 0.16 | 27.4 |
| 4/25/2015 23:20:48 | 42.65 | 40.35 | 501 | 1.81 | 0.16 | 27.4 |
| 4/25/2015 23:20:49 | 42.98 | 40.68 | 509 | 1.81 | 0.16 | 27.8 |
| 4/25/2015 23:20:50 | 43.31 | 41.01 | 500 | 1.76 | 0.16 | 27.3 |
| 4/25/2015 23:21:22 | 43.64 | 41.34 | 14 | 1.75 | 1.14 | 0.8 |
| 4/25/2015 23:21:26 | 43.96 | 41.66 | 104 | 1.74 | 1.34 | 5.7 |
| 4/25/2015 23:21:42 | 44.29 | 41.99 | 20 | 1.78 | 1.07 | 1.1 |
| 4/25/2015 23:21:43 | 44.62 | 42.32 | 175 | 1.76 | 1.21 | 9.6 |
| 4/25/2015 23:21:45 | 44.95 | 42.65 | 225 | 1.74 | 1.12 | 12.3 |
| 4/25/2015 23:21:53 | 45.28 | 42.98 | 67 | 1.74 | 1.26 | 3.7 |
| 4/25/2015 23:21:55 | 45.60 | 43.30 | 190 | 1.76 | 1.14 | 10.4 |
| 4/25/2015 23:21:57 | 45.93 | 43.63 | 168 | 1.73 | 1.23 | 9.2 |
| 4/25/2015 23:21:59 | 46.26 | 43.96 | 189 | 1.78 | 1.11 | 10.4 |
| 4/25/2015 23:22:01 | 46.59 | 44.29 | 203 | 1.77 | 1.06 | 11.1 |
| 4/25/2015 23:22:29 | 46.92 | 44.62 | 77 | 1.75 | 1.00 | 4.2 |
| 4/25/2015 23:22:30 | 47.24 | 44.94 | 158 | 1.79 | 0.98 | 8.6 |
| 4/25/2015 23:22:32 | 47.57 | 45.27 | 207 | 1.74 | 1.00 | 11.3 |
| 4/25/2015 23:22:33 | 47.90 | 45.60 | 217 | 1.76 | 1.04 | 11.9 |
| 4/25/2015 23:22:41 | 48.23 | 45.93 | 93 | 1.76 | 1.10 | 5.1 |
| 4/25/2015 23:22:44 | 48.56 | 46.26 | 125 | 1.76 | 1.10 | 6.8 |
| 4/25/2015 23:22:49 | 48.88 | 46.58 | 47 | 1.76 | 1.05 | 2.6 |
| 4/25/2015 23:23:01 | 49.21 | 46.91 | 85 | 1.76 | 1.15 | 4.6 |
| 4/25/2015 23:23:03 | 49.54 | 47.24 | 200 | 1.76 | 1.00 | 10.9 |
| 4/25/2015 23:23:05 | 49.87 | 47.57 | 214 | 1.76 | 1.04 | 11.7 |
| 4/25/2015 23:23:11 | 50.20 | 47.90 | 54 | 1.76 | 1.06 | 3.0 |
| 4/25/2015 23:23:13 | 50.53 | 48.23 | 187 | 1.76 | 1.31 | 10.2 |
| 4/25/2015 23:23:15 | 50.85 | 48.55 | 195 | 1.77 | 1.14 | 10.7 |
| 4/25/2015 23:23:19 | 51.18 | 48.88 | 65 | 1.76 | 1.14 | 3.6 |
| 4/25/2015 23:23:20 | 51.51 | 49.21 | 96 | 1.74 | 1.21 | 5.3 |
| 4/25/2015 23:23:22 | 51.84 | 49.54 | 211 | 1.78 | 1.18 | 11.5 |
| 4/25/2015 23:23:25 | 52.17 | 49.87 | 162 | 1.73 | 1.14 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 23:23:27 | 52.49 | 50.19 | 130 | 1.74 | 1.03 | 7.1 |
| 4/25/2015 | 23:23:28 | 52.82 | 50.52 | 228 | 1.75 | 1.05 | 12.4 |
| 4/25/2015 | 23:23:30 | 53.15 | 50.85 | 238 | 1.74 | 1.00 | 13.0 |
| 4/25/2015 | 23:24:14 | 53.48 | 51.18 | 29 | 1.74 | 1.05 | 1.6 |
| 4/25/2015 | 23:24:17 | 53.81 | 51.51 | 127 | 1.76 | 1.09 | 7.0 |
| 4/25/2015 | 23:24:19 | 54.13 | 51.83 | 121 | 1.73 | 1.10 | 6.6 |
| 4/25/2015 | 23:24:21 | 54.46 | 52.16 | 167 | 1.75 | 1.02 | 9.1 |
| 4/25/2015 | 23:24:23 | 54.79 | 52.49 | 243 | 1.76 | 1.02 | 13.3 |
| 4/25/2015 | 23:24:27 | 55.12 | 52.82 | 38 | 1.76 | 1.06 | 2.1 |
| 4/25/2015 | 23:24:29 | 55.45 | 53.15 | 176 | 1.76 | 1.09 | 9.6 |
| 4/25/2015 | 23:24:33 | 55.77 | 53.47 | 126 | 1.85 | 0.99 | 6.9 |
| 4/25/2015 | 23:24:35 | 56.10 | 53.80 | 154 | 1.75 | 1.02 | 8.4 |
| 4/25/2015 | 23:24:40 | 56.43 | 54.13 | 0 | 1.47 | 1.01 | 0.0 |
| 4/25/2015 | 23:24:42 | 56.76 | 54.46 | 119 | 1.76 | 1.08 | 6.5 |
| 4/25/2015 | 23:24:46 | 57.09 | 54.79 | 67 | 1.75 | 1.07 | 3.6 |
| 4/25/2015 | 23:24:51 | 57.41 | 55.11 | 99 | 1.76 | 1.08 | 5.4 |
| 4/25/2015 | 23:25:22 | 57.74 | 55.44 | 0 | 2.54 | 0.87 | 0.0 |
| 4/25/2015 | 23:25:23 | 58.07 | 55.77 | 105 | 1.74 | 1.01 | 5.8 |
| 4/25/2015 | 23:25:27 | 58.40 | 56.10 | 84 | 1.73 | 1.01 | 4.6 |
| 4/25/2015 | 23:25:32 | 58.73 | 56.43 | 47 | 1.74 | 1.08 | 2.6 |
| 4/25/2015 | 23:25:36 | 59.06 | 56.76 | 104 | 1.79 | 1.11 | 5.7 |
| 4/25/2015 | 23:25:40 | 59.38 | 57.08 | 90 | 1.78 | 1.12 | 4.9 |
| 4/25/2015 | 23:25:45 | 59.71 | 57.41 | 33 | 1.70 | 1.11 | 1.8 |
| 4/25/2015 | 23:25:48 | 60.04 | 57.74 | 114 | 1.77 | 1.07 | 6.2 |
| 4/25/2015 | 23:25:50 | 60.37 | 58.07 | 143 | 1.78 | 1.06 | 7.8 |
| 4/25/2015 | 23:25:53 | 60.70 | 58.40 | 145 | 1.76 | 1.08 | 7.9 |
| 4/25/2015 | 23:25:56 | 61.02 | 58.72 | 133 | 1.74 | 1.06 | 7.3 |
| 4/25/2015 | 23:25:58 | 61.35 | 59.05 | 146 | 1.76 | 1.05 | 8.0 |
| 4/25/2015 | 23:26:01 | 61.68 | 59.38 | 116 | 1.79 | 1.07 | 6.3 |
| 4/25/2015 | 23:26:04 | 62.01 | 59.71 | 130 | 1.78 | 1.10 | 7.1 |
| 4/25/2015 | 23:26:07 | 62.34 | 60.04 | 124 | 1.79 | 1.12 | 6.8 |
| 4/25/2015 | 23:26:13 | 62.66 | 60.36 | 58 | 1.79 | 1.14 | 3.1 |
| 4/25/2015 | 23:27:34 | 62.99 | 60.69 | 0 | 1.79 | 0.29 | 0.0 |
| 4/25/2015 | 23:27:40 | 63.32 | 61.02 | 68 | 1.78 | 1.11 | 3.7 |
| 4/25/2015 | 23:28:32 | 63.65 | 61.35 | 44 | 1.78 | 1.11 | 2.4 |
| 4/25/2015 | 23:28:34 | 63.96 | 61.66 | 130 | 1.52 | 1.10 | 7.1 |

## H24 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 23:18:31

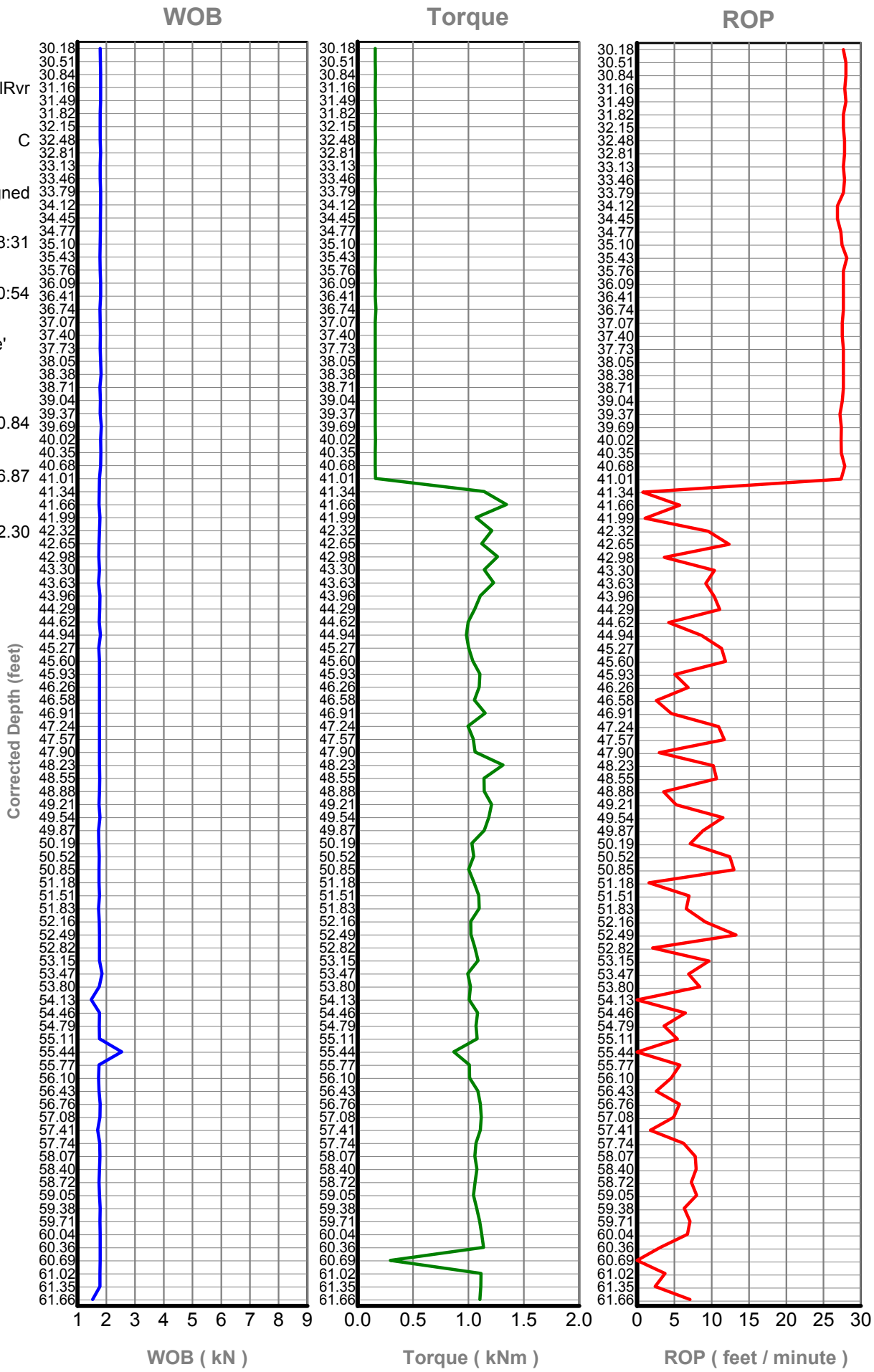
**End Date:**
4/25/2015 23:30:54

**Operator Note:**
'2.3 2.7 c Auto Complete'

**Northing:**
366,670.84

**Easting:**
250,336.87

**Tide (feet):**
2.30



## Hole: H240 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:16:27 | 31.17 | 30.07 | 669 | 1.97 | 0.15 | 36.6 |
| 4/24/2015 23:16:28 | 31.50 | 30.40 | 654 | 1.99 | 0.15 | 35.8 |
| 4/24/2015 23:16:28 | 31.82 | 30.72 | 654 | 1.98 | 0.16 | 35.8 |
| 4/24/2015 23:16:29 | 32.15 | 31.05 | 640 | 1.97 | 0.15 | 35.0 |
| 4/24/2015 23:16:29 | 32.48 | 31.38 | 640 | 1.97 | 0.15 | 35.0 |
| 4/24/2015 23:16:30 | 32.81 | 31.71 | 652 | 2.04 | 0.15 | 35.7 |
| 4/24/2015 23:16:30 | 33.14 | 32.04 | 633 | 1.96 | 0.17 | 34.6 |
| 4/24/2015 23:16:31 | 33.46 | 32.36 | 634 | 2.01 | 0.15 | 34.7 |
| 4/24/2015 23:16:31 | 33.79 | 32.69 | 634 | 1.99 | 0.15 | 34.7 |
| 4/24/2015 23:16:32 | 34.12 | 33.02 | 644 | 1.99 | 0.15 | 35.2 |
| 4/24/2015 23:16:32 | 34.45 | 33.35 | 644 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 23:16:33 | 34.78 | 33.68 | 662 | 1.98 | 0.15 | 36.2 |
| 4/24/2015 23:16:33 | 35.11 | 34.01 | 641 | 1.95 | 0.15 | 35.1 |
| 4/24/2015 23:16:34 | 35.43 | 34.33 | 666 | 1.97 | 0.15 | 36.4 |
| 4/24/2015 23:16:34 | 35.76 | 34.66 | 666 | 1.96 | 0.15 | 36.4 |
| 4/24/2015 23:16:35 | 36.09 | 34.99 | 665 | 1.98 | 0.15 | 36.4 |
| 4/24/2015 23:16:36 | 36.42 | 35.32 | 657 | 1.98 | 0.15 | 35.9 |
| 4/24/2015 23:16:36 | 36.75 | 35.65 | 653 | 1.98 | 0.15 | 35.7 |
| 4/24/2015 23:16:37 | 37.07 | 35.97 | 653 | 1.97 | 0.15 | 35.7 |
| 4/24/2015 23:16:37 | 37.40 | 36.30 | 651 | 1.98 | 0.15 | 35.6 |
| 4/24/2015 23:16:38 | 37.73 | 36.63 | 633 | 1.99 | 0.15 | 34.6 |
| 4/24/2015 23:16:39 | 38.06 | 36.96 | 647 | 1.98 | 0.15 | 35.4 |
| 4/24/2015 23:16:39 | 38.39 | 37.29 | 640 | 1.96 | 0.15 | 35.0 |
| 4/24/2015 23:16:40 | 38.71 | 37.61 | 637 | 1.97 | 0.15 | 34.8 |
| 4/24/2015 23:16:40 | 39.04 | 37.94 | 637 | 1.98 | 0.15 | 34.8 |
| 4/24/2015 23:16:41 | 39.37 | 38.27 | 641 | 1.96 | 0.15 | 35.1 |
| 4/24/2015 23:16:41 | 39.70 | 38.60 | 655 | 1.99 | 0.15 | 35.8 |
| 4/24/2015 23:16:42 | 40.03 | 38.93 | 642 | 2.00 | 0.15 | 35.1 |
| 4/24/2015 23:16:42 | 40.35 | 39.25 | 649 | 1.97 | 0.15 | 35.5 |
| 4/24/2015 23:16:43 | 40.68 | 39.58 | 663 | 1.95 | 0.15 | 36.3 |
| 4/24/2015 23:16:43 | 41.01 | 39.91 | 646 | 1.97 | 0.15 | 35.3 |
| 4/24/2015 23:16:44 | 41.34 | 40.24 | 649 | 1.99 | 0.15 | 35.5 |
| 4/24/2015 23:16:45 | 41.67 | 40.57 | 639 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 23:16:45 | 41.99 | 40.89 | 631 | 1.98 | 0.16 | 34.5 |
| 4/24/2015 23:16:45 | 42.32 | 41.22 | 631 | 1.98 | 0.15 | 34.5 |
| 4/24/2015 23:16:46 | 42.65 | 41.55 | 642 | 1.98 | 0.15 | 35.1 |
| 4/24/2015 23:16:47 | 42.98 | 41.88 | 636 | 1.98 | 0.15 | 34.8 |
| 4/24/2015 23:16:47 | 43.31 | 42.21 | 636 | 1.98 | 0.15 | 34.8 |
| 4/24/2015 23:16:48 | 43.64 | 42.54 | 639 | 1.98 | 0.15 | 34.9 |
| 4/24/2015 23:16:49 | 43.96 | 42.86 | 642 | 1.98 | 0.15 | 35.1 |
| 4/24/2015 23:16:49 | 44.29 | 43.19 | 642 | 1.98 | 0.15 | 35.1 |
| 4/24/2015 23:16:50 | 44.62 | 43.52 | 659 | 1.99 | 0.15 | 36.0 |
| 4/24/2015 23:16:50 | 44.95 | 43.85 | 643 | 1.91 | 0.15 | 35.2 |
| 4/24/2015 23:16:51 | 45.28 | 44.18 | 661 | 1.98 | 0.15 | 36.2 |
| 4/24/2015 23:16:51 | 45.60 | 44.50 | 642 | 1.99 | 0.15 | 35.1 |
| 4/24/2015 23:16:52 | 45.93 | 44.83 | 650 | 1.99 | 0.15 | 35.5 |
| 4/24/2015 23:16:52 | 46.26 | 45.16 | 650 | 1.97 | 0.15 | 35.5 |
| 4/24/2015 23:16:53 | 46.59 | 45.49 | 633 | 1.96 | 0.15 | 34.6 |
| 4/24/2015 23:16:53 | 46.92 | 45.82 | 633 | 1.96 | 0.15 | 34.6 |
| 4/24/2015 23:16:54 | 47.24 | 46.14 | 649 | 1.98 | 0.15 | 35.5 |
| 4/24/2015 23:16:54 | 47.57 | 46.47 | 630 | 2.00 | 0.15 | 34.5 |
| 4/24/2015 23:16:55 | 47.90 | 46.80 | 652 | 1.98 | 0.15 | 35.6 |
| 4/24/2015 23:17:15 | 48.23 | 47.13 | 24 | 1.99 | 1.20 | 1.3 |
| 4/24/2015 23:17:16 | 48.56 | 47.46 | 76 | 2.01 | 1.15 | 4.1 |
| 4/24/2015 23:17:35 | 48.88 | 47.78 | 0 | 1.98 | 1.20 | 0.0 |
| 4/24/2015 23:17:41 | 49.21 | 48.11 | 58 | 1.98 | 1.20 | 3.1 |
| 4/24/2015 23:17:43 | 49.54 | 48.44 | 162 | 2.00 | 1.31 | 8.9 |
| 4/24/2015 23:17:44 | 49.87 | 48.77 | 210 | 1.99 | 1.26 | 11.5 |
| 4/24/2015 23:17:45 | 50.20 | 49.10 | 265 | 1.97 | 1.18 | 14.5 |
| 4/24/2015 23:17:58 | 50.53 | 49.43 | 46 | 1.98 | 1.15 | 2.5 |
| 4/24/2015 23:18:08 | 50.85 | 49.75 | 34 | 2.07 | 1.11 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:18:38 | 51.18 | 50.08 | 113 | 1.98 | 1.13 | 6.2 |
| 4/24/2015 | 23:18:39 | 51.51 | 50.41 | 249 | 1.99 | 1.12 | 13.6 |
| 4/24/2015 | 23:18:40 | 51.84 | 50.74 | 309 | 1.98 | 1.06 | 16.9 |
| 4/24/2015 | 23:18:49 | 52.17 | 51.07 | 0 | 1.97 | 1.03 | 0.0 |
| 4/24/2015 | 23:18:52 | 52.49 | 51.39 | 59 | 2.00 | 1.14 | 3.2 |
| 4/24/2015 | 23:18:53 | 52.82 | 51.72 | 171 | 2.00 | 1.09 | 9.4 |
| 4/24/2015 | 23:18:55 | 53.15 | 52.05 | 322 | 2.00 | 1.08 | 17.6 |
| 4/24/2015 | 23:19:00 | 53.48 | 52.38 | 43 | 1.97 | 1.55 | 2.4 |
| 4/24/2015 | 23:19:01 | 53.81 | 52.71 | 134 | 1.98 | 1.41 | 7.3 |
| 4/24/2015 | 23:19:03 | 54.13 | 53.03 | 258 | 2.01 | 1.22 | 14.1 |
| 4/24/2015 | 23:19:04 | 54.46 | 53.36 | 273 | 1.97 | 1.21 | 14.9 |
| 4/24/2015 | 23:19:15 | 54.79 | 53.69 | 15 | 1.96 | 1.15 | 0.8 |
| 4/24/2015 | 23:19:17 | 55.12 | 54.02 | 79 | 2.00 | 1.25 | 4.3 |
| 4/24/2015 | 23:19:18 | 55.45 | 54.35 | 118 | 2.00 | 1.19 | 6.5 |
| 4/24/2015 | 23:19:19 | 55.77 | 54.67 | 239 | 1.99 | 1.14 | 13.1 |
| 4/24/2015 | 23:19:20 | 56.10 | 55.00 | 324 | 1.99 | 1.30 | 17.7 |
| 4/24/2015 | 23:19:21 | 56.34 | 55.24 | 308 | 1.99 | 1.25 | 16.9 |

## H240 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:14:41

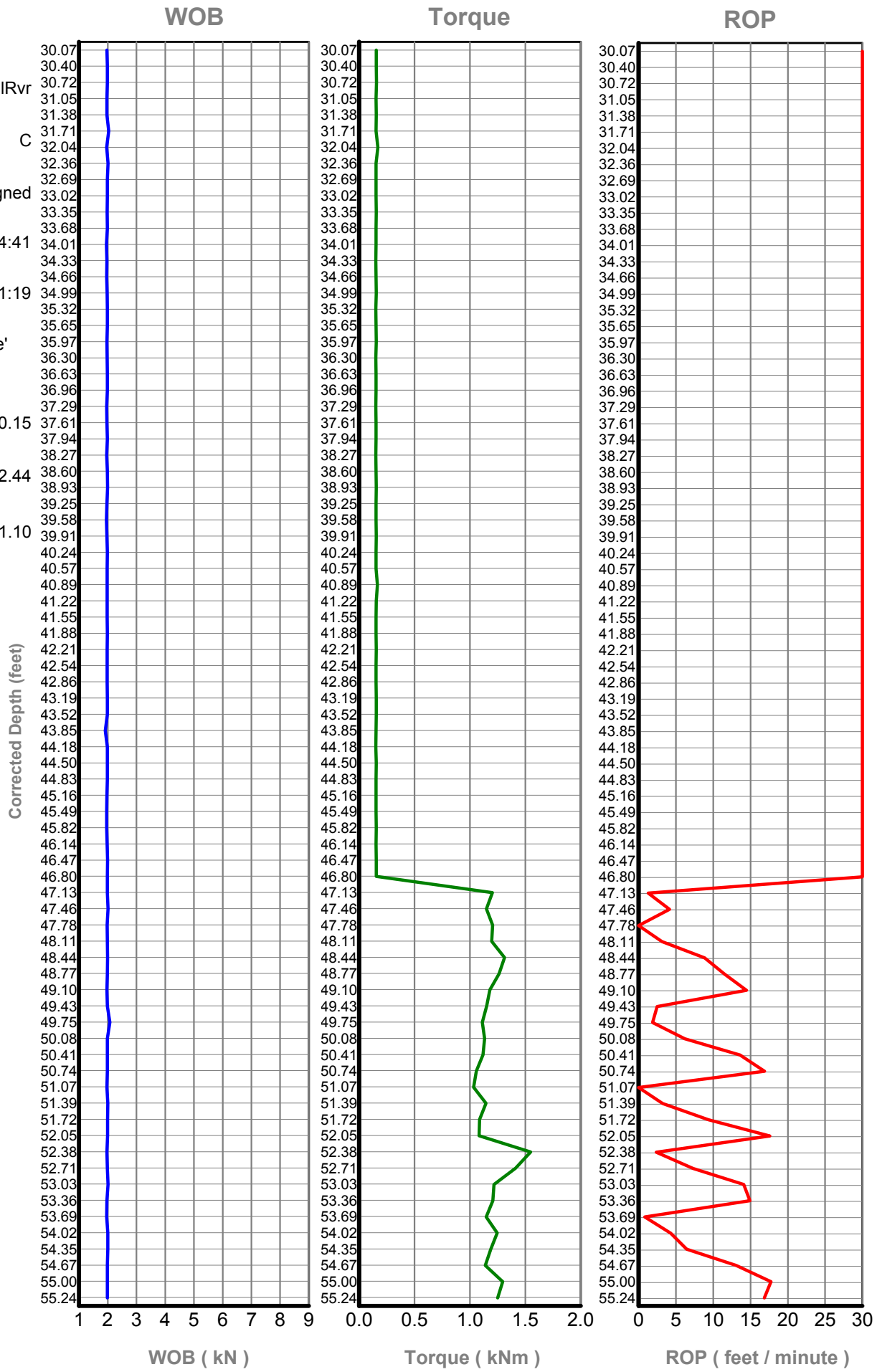
**End Date:**
4/24/2015 23:21:19

**Operator Note:**
'1.1 1.2 c Auto Complete'

**Northing:**
366,810.15

**Easting:**
251,092.44

**Tide (feet):**
1.10



## Hole: H241 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:41:14 | 32.81 | 30.11 | 881 | 0.37 | 0.32 | 48.2 |
| 4/24/2015 8:41:14 | 33.14 | 30.44 | 882 | 0.36 | 0.33 | 48.2 |
| 4/24/2015 8:41:15 | 33.46 | 30.76 | 882 | 0.36 | 0.33 | 48.2 |
| 4/24/2015 8:41:15 | 33.79 | 31.09 | 887 | 0.34 | 0.32 | 48.5 |
| 4/24/2015 8:41:15 | 34.12 | 31.42 | 893 | 0.36 | 0.32 | 48.8 |
| 4/24/2015 8:41:16 | 34.45 | 31.75 | 899 | 0.37 | 0.33 | 49.2 |
| 4/24/2015 8:41:16 | 34.78 | 32.08 | 899 | 0.37 | 0.33 | 49.2 |
| 4/24/2015 8:41:17 | 35.11 | 32.41 | 899 | 0.37 | 0.33 | 49.2 |
| 4/24/2015 8:41:17 | 35.43 | 32.73 | 896 | 0.37 | 0.32 | 49.0 |
| 4/24/2015 8:41:17 | 35.76 | 33.06 | 896 | 0.37 | 0.32 | 49.0 |
| 4/24/2015 8:41:18 | 36.09 | 33.39 | 902 | 0.37 | 0.33 | 49.3 |
| 4/24/2015 8:41:18 | 36.42 | 33.72 | 902 | 0.37 | 0.33 | 49.3 |
| 4/24/2015 8:41:18 | 36.75 | 34.05 | 893 | 0.37 | 0.32 | 48.8 |
| 4/24/2015 8:41:19 | 37.07 | 34.37 | 887 | 0.37 | 0.33 | 48.5 |
| 4/24/2015 8:41:19 | 37.40 | 34.70 | 870 | 0.37 | 0.33 | 47.6 |
| 4/24/2015 8:41:20 | 37.73 | 35.03 | 870 | 0.37 | 0.33 | 47.6 |
| 4/24/2015 8:41:20 | 38.06 | 35.36 | 879 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:41:20 | 38.39 | 35.69 | 871 | 0.37 | 0.32 | 47.6 |
| 4/24/2015 8:41:21 | 38.71 | 36.01 | 864 | 0.37 | 0.33 | 47.2 |
| 4/24/2015 8:41:21 | 39.04 | 36.34 | 872 | 0.37 | 0.32 | 47.7 |
| 4/24/2015 8:41:22 | 39.37 | 36.67 | 872 | 0.37 | 0.32 | 47.7 |
| 4/24/2015 8:41:22 | 39.70 | 37.00 | 872 | 0.37 | 0.32 | 47.7 |
| 4/24/2015 8:41:23 | 40.03 | 37.33 | 899 | 0.37 | 0.32 | 49.2 |
| 4/24/2015 8:41:23 | 40.35 | 37.65 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:41:24 | 40.68 | 37.98 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:41:24 | 41.01 | 38.31 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:41:24 | 41.34 | 38.64 | 889 | 0.37 | 0.33 | 48.6 |
| 4/24/2015 8:41:25 | 41.67 | 38.97 | 901 | 0.38 | 0.32 | 49.3 |
| 4/24/2015 8:41:25 | 41.99 | 39.29 | 901 | 0.38 | 0.32 | 49.3 |
| 4/24/2015 8:41:25 | 42.32 | 39.62 | 878 | 0.37 | 0.32 | 48.0 |
| 4/24/2015 8:41:26 | 42.65 | 39.95 | 878 | 0.37 | 0.34 | 48.0 |
| 4/24/2015 8:41:26 | 42.98 | 40.28 | 879 | 0.37 | 0.32 | 48.0 |
| 4/24/2015 8:41:27 | 43.31 | 40.61 | 891 | 0.37 | 0.33 | 48.7 |
| 4/24/2015 8:41:27 | 43.64 | 40.94 | 891 | 0.37 | 0.33 | 48.7 |
| 4/24/2015 8:41:27 | 43.96 | 41.26 | 885 | 0.37 | 0.32 | 48.4 |
| 4/24/2015 8:41:28 | 44.29 | 41.59 | 883 | 0.37 | 0.32 | 48.3 |
| 4/24/2015 8:41:28 | 44.62 | 41.92 | 897 | 0.37 | 0.32 | 49.1 |
| 4/24/2015 8:41:29 | 44.95 | 42.25 | 897 | 0.37 | 0.32 | 49.1 |
| 4/24/2015 8:41:29 | 45.28 | 42.58 | 890 | 0.37 | 0.32 | 48.6 |
| 4/24/2015 8:41:29 | 45.60 | 42.90 | 876 | 0.37 | 0.32 | 47.9 |
| 4/24/2015 8:41:30 | 45.93 | 43.23 | 876 | 0.35 | 0.33 | 47.9 |
| 4/24/2015 8:41:30 | 46.26 | 43.56 | 876 | 0.35 | 0.33 | 47.9 |
| 4/24/2015 8:41:30 | 46.59 | 43.89 | 880 | 0.37 | 0.33 | 48.1 |
| 4/24/2015 8:41:31 | 46.92 | 44.22 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:41:31 | 47.24 | 44.54 | 869 | 0.37 | 0.33 | 47.5 |
| 4/24/2015 8:41:32 | 47.57 | 44.87 | 862 | 0.37 | 0.33 | 47.1 |
| 4/24/2015 8:41:32 | 47.90 | 45.20 | 862 | 0.37 | 0.33 | 47.1 |
| 4/24/2015 8:41:33 | 48.23 | 45.53 | 884 | 0.36 | 0.35 | 48.3 |
| 4/24/2015 8:42:18 | 48.56 | 45.86 | 9 | 3.60 | 0.37 | 0.5 |
| 4/24/2015 8:42:20 | 48.88 | 46.18 | 160 | 4.49 | 0.38 | 8.8 |
| 4/24/2015 8:42:23 | 49.21 | 46.51 | 23 | 7.28 | 0.36 | 1.2 |
| 4/24/2015 8:42:26 | 49.54 | 46.84 | 176 | 5.54 | 0.41 | 9.6 |
| 4/24/2015 8:42:41 | 49.87 | 47.17 | 14 | 4.76 | 0.37 | 0.8 |
| 4/24/2015 8:42:47 | 50.20 | 47.50 | 22 | 5.00 | 0.39 | 1.2 |
| 4/24/2015 8:42:49 | 50.53 | 47.83 | 134 | 4.26 | 0.38 | 7.3 |
| 4/24/2015 8:42:53 | 50.85 | 48.15 | 101 | 4.93 | 0.40 | 5.5 |
| 4/24/2015 8:42:55 | 51.18 | 48.48 | 135 | 3.43 | 0.36 | 7.4 |
| 4/24/2015 8:42:55 | 51.51 | 48.81 | 211 | 2.79 | 0.36 | 11.5 |
| 4/24/2015 8:43:01 | 51.84 | 49.14 | 3 | 3.15 | 0.37 | 0.2 |
| 4/24/2015 8:43:05 | 52.17 | 49.47 | 182 | 2.91 | 0.36 | 10.0 |
| 4/24/2015 8:43:05 | 52.49 | 49.79 | 156 | 2.52 | 0.36 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:43:07 | 52.82 | 50.12 | 248 | 3.20 | 0.38 | 13.6 |
| 4/24/2015 | 8:43:10 | 53.15 | 50.45 | 72 | 3.48 | 0.40 | 3.9 |
| 4/24/2015 | 8:43:13 | 53.48 | 50.78 | 82 | 3.61 | 0.37 | 4.5 |
| 4/24/2015 | 8:43:17 | 53.81 | 51.11 | 58 | 6.43 | 0.39 | 3.2 |
| 4/24/2015 | 8:43:22 | 54.13 | 51.43 | 98 | 4.27 | 0.40 | 5.4 |
| 4/24/2015 | 8:43:24 | 54.46 | 51.76 | 148 | 8.00 | 0.40 | 8.1 |
| 4/24/2015 | 8:43:49 | 54.79 | 52.09 | 108 | 3.82 | 0.38 | 5.9 |
| 4/24/2015 | 8:43:50 | 55.12 | 52.42 | 154 | 3.25 | 0.37 | 8.4 |
| 4/24/2015 | 8:44:02 | 55.45 | 52.75 | 75 | 5.71 | 0.39 | 4.1 |
| 4/24/2015 | 8:44:04 | 55.77 | 53.07 | 122 | 4.75 | 0.39 | 6.7 |
| 4/24/2015 | 8:44:05 | 56.10 | 53.40 | 202 | 4.51 | 0.37 | 11.0 |
| 4/24/2015 | 8:44:06 | 56.43 | 53.73 | 361 | 2.76 | 0.36 | 19.7 |
| 4/24/2015 | 8:44:07 | 56.76 | 54.06 | 391 | 2.68 | 0.37 | 21.4 |
| 4/24/2015 | 8:44:08 | 57.09 | 54.39 | 411 | 3.50 | 0.38 | 22.4 |
| 4/24/2015 | 8:44:35 | 57.41 | 54.71 | 90 | 3.33 | 0.39 | 4.9 |
| 4/24/2015 | 8:44:40 | 57.74 | 55.04 | 84 | 3.74 | 0.39 | 4.6 |
| 4/24/2015 | 8:44:45 | 58.07 | 55.37 | 69 | 3.62 | 0.40 | 3.8 |
| 4/24/2015 | 8:44:49 | 58.37 | 55.67 | 84 | 4.45 | 0.39 | 4.6 |

## H241 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:39:24

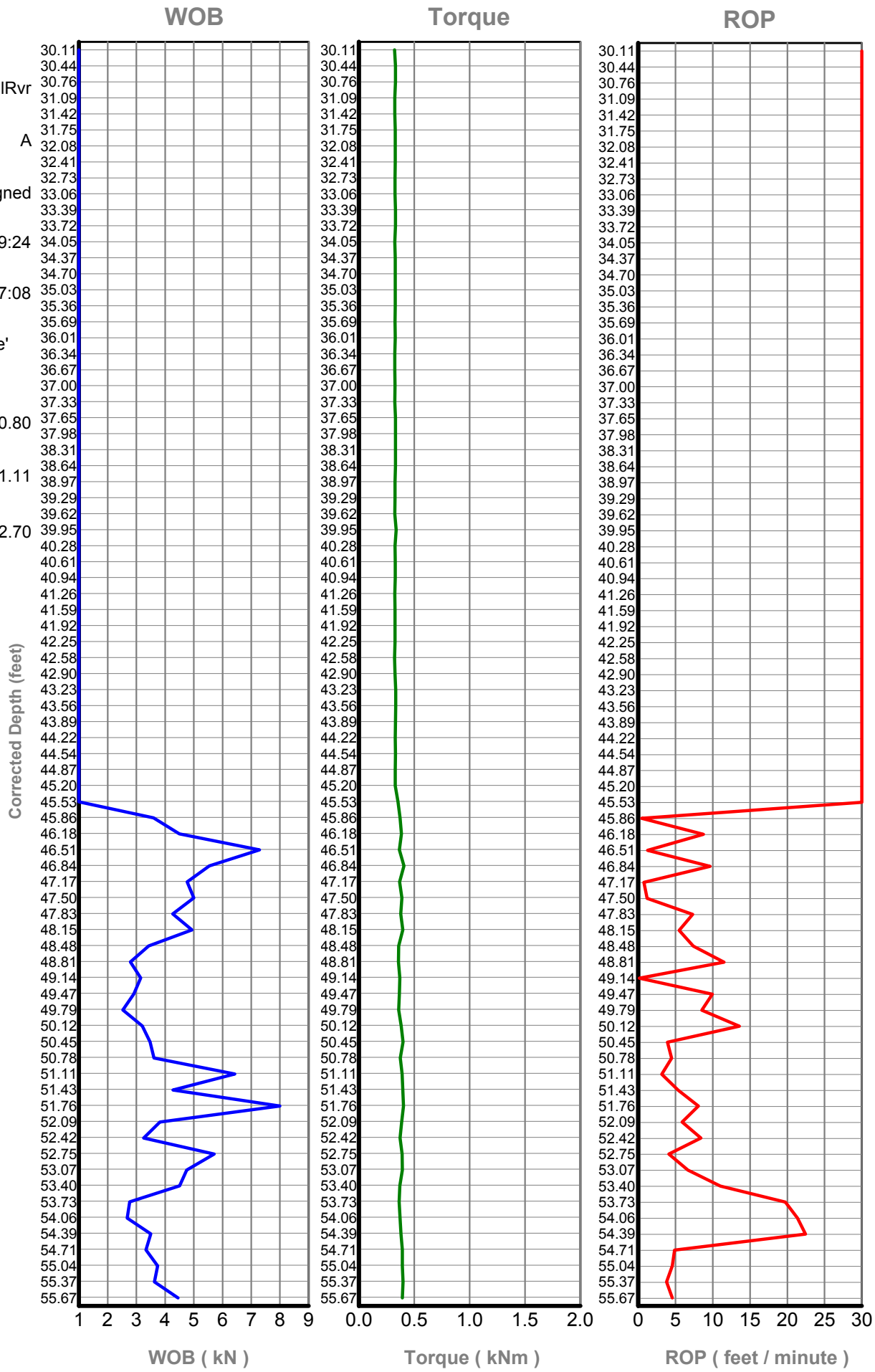
**End Date:**
4/24/2015 8:47:08

**Operator Note:**
'2.7 3.3 b Auto Complete'

**Northing:**
366,870.80

**Easting:**
251,171.11

**Tide (feet):**
2.70



## Hole: H242 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:49:32 | 32.81 | 30.21 | 914 | 0.37 | 0.32 | 50.0 |
| 4/24/2015 8:49:32 | 33.14 | 30.54 | 914 | 0.37 | 0.32 | 50.0 |
| 4/24/2015 8:49:32 | 33.46 | 30.86 | 918 | 0.37 | 0.32 | 50.2 |
| 4/24/2015 8:49:33 | 33.79 | 31.19 | 916 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 8:49:33 | 34.12 | 31.52 | 916 | 0.41 | 0.32 | 50.1 |
| 4/24/2015 8:49:34 | 34.45 | 31.85 | 916 | 0.41 | 0.32 | 50.1 |
| 4/24/2015 8:49:34 | 34.78 | 32.18 | 910 | 0.37 | 0.32 | 49.8 |
| 4/24/2015 8:49:34 | 35.11 | 32.51 | 910 | 0.37 | 0.32 | 49.8 |
| 4/24/2015 8:49:35 | 35.43 | 32.83 | 909 | 0.37 | 0.33 | 49.7 |
| 4/24/2015 8:49:35 | 35.76 | 33.16 | 909 | 0.37 | 0.33 | 49.7 |
| 4/24/2015 8:49:35 | 36.09 | 33.49 | 916 | 0.36 | 0.32 | 50.1 |
| 4/24/2015 8:49:36 | 36.42 | 33.82 | 916 | 0.36 | 0.32 | 50.1 |
| 4/24/2015 8:49:36 | 36.75 | 34.15 | 912 | 0.36 | 0.32 | 49.9 |
| 4/24/2015 8:49:37 | 37.07 | 34.47 | 912 | 0.36 | 0.32 | 49.9 |
| 4/24/2015 8:49:37 | 37.40 | 34.80 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 8:49:37 | 37.73 | 35.13 | 918 | 0.37 | 0.32 | 50.2 |
| 4/24/2015 8:49:38 | 38.06 | 35.46 | 888 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 8:49:38 | 38.39 | 35.79 | 888 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 8:49:38 | 38.71 | 36.11 | 888 | 0.36 | 0.32 | 48.6 |
| 4/24/2015 8:49:39 | 39.04 | 36.44 | 888 | 0.36 | 0.32 | 48.6 |
| 4/24/2015 8:49:39 | 39.37 | 36.77 | 904 | 0.36 | 0.34 | 49.4 |
| 4/24/2015 8:49:40 | 39.70 | 37.10 | 904 | 0.36 | 0.34 | 49.4 |
| 4/24/2015 8:49:40 | 40.03 | 37.43 | 906 | 0.37 | 0.32 | 49.6 |
| 4/24/2015 8:49:40 | 40.35 | 37.75 | 891 | 0.37 | 0.32 | 48.7 |
| 4/24/2015 8:49:41 | 40.68 | 38.08 | 891 | 0.37 | 0.33 | 48.7 |
| 4/24/2015 8:49:42 | 41.01 | 38.41 | 891 | 0.37 | 0.33 | 48.7 |
| 4/24/2015 8:49:42 | 41.34 | 38.74 | 915 | 0.36 | 0.32 | 50.0 |
| 4/24/2015 8:49:42 | 41.67 | 39.07 | 915 | 0.39 | 0.32 | 50.0 |
| 4/24/2015 8:49:43 | 41.99 | 39.39 | 916 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 8:49:43 | 42.32 | 39.72 | 916 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 8:49:43 | 42.65 | 40.05 | 896 | 0.37 | 0.34 | 49.0 |
| 4/24/2015 8:49:44 | 42.98 | 40.38 | 896 | 0.37 | 0.32 | 49.0 |
| 4/24/2015 8:49:44 | 43.31 | 40.71 | 900 | 0.37 | 0.32 | 49.2 |
| 4/24/2015 8:49:45 | 43.64 | 41.04 | 900 | 0.37 | 0.32 | 49.2 |
| 4/24/2015 8:49:45 | 43.96 | 41.36 | 921 | 0.32 | 0.32 | 50.4 |
| 4/24/2015 8:49:45 | 44.29 | 41.69 | 917 | 0.37 | 0.32 | 50.2 |
| 4/24/2015 8:49:46 | 44.62 | 42.02 | 915 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 8:49:46 | 44.95 | 42.35 | 915 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 8:49:46 | 45.28 | 42.68 | 921 | 0.37 | 0.32 | 50.4 |
| 4/24/2015 8:49:47 | 45.60 | 43.00 | 905 | 0.37 | 0.32 | 49.5 |
| 4/24/2015 8:49:47 | 45.93 | 43.33 | 905 | 0.37 | 0.32 | 49.5 |
| 4/24/2015 8:49:48 | 46.26 | 43.66 | 905 | 0.37 | 0.32 | 49.5 |
| 4/24/2015 8:49:48 | 46.59 | 43.99 | 905 | 0.37 | 0.32 | 49.5 |
| 4/24/2015 8:49:48 | 46.92 | 44.32 | 897 | 0.37 | 0.32 | 49.1 |
| 4/24/2015 8:49:49 | 47.24 | 44.64 | 886 | 0.35 | 0.33 | 48.5 |
| 4/24/2015 8:49:49 | 47.57 | 44.97 | 875 | 0.35 | 0.37 | 47.9 |
| 4/24/2015 8:50:06 | 47.90 | 45.30 | 6 | 3.37 | 0.38 | 0.3 |
| 4/24/2015 8:50:07 | 48.23 | 45.63 | 159 | 4.70 | 0.37 | 8.7 |
| 4/24/2015 8:50:14 | 48.56 | 45.96 | 0 | 4.15 | 0.37 | 0.0 |
| 4/24/2015 8:50:15 | 48.88 | 46.28 | 99 | 3.27 | 0.36 | 5.4 |
| 4/24/2015 8:50:16 | 49.21 | 46.61 | 183 | 3.59 | 0.36 | 10.0 |
| 4/24/2015 8:50:17 | 49.54 | 46.94 | 280 | 3.10 | 0.36 | 15.3 |
| 4/24/2015 8:50:30 | 49.87 | 47.27 | 29 | 3.73 | 0.37 | 1.6 |
| 4/24/2015 8:50:31 | 50.20 | 47.60 | 92 | 3.24 | 0.38 | 5.0 |
| 4/24/2015 8:50:32 | 50.53 | 47.93 | 161 | 3.39 | 0.37 | 8.8 |
| 4/24/2015 8:50:32 | 50.85 | 48.25 | 241 | 2.69 | 0.36 | 13.2 |
| 4/24/2015 8:50:40 | 51.18 | 48.58 | 106 | 3.07 | 0.28 | 5.8 |
| 4/24/2015 8:50:40 | 51.51 | 48.91 | 182 | 3.54 | 0.36 | 10.0 |
| 4/24/2015 8:50:41 | 51.84 | 49.24 | 362 | 2.90 | 0.36 | 19.8 |
| 4/24/2015 8:50:48 | 52.17 | 49.57 | 0 | 3.26 | 0.37 | 0.0 |
| 4/24/2015 8:50:49 | 52.49 | 49.89 | 110 | 3.60 | 0.37 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:50:50 | 52.82 | 50.22 | 248 | 3.27 | 0.37 | 13.6 |
| 4/24/2015 | 8:50:51 | 53.15 | 50.55 | 320 | 3.75 | 0.38 | 17.5 |
| 4/24/2015 | 8:51:02 | 53.48 | 50.88 | 96 | 4.69 | 0.38 | 5.3 |
| 4/24/2015 | 8:51:03 | 53.81 | 51.21 | 207 | 3.67 | 0.37 | 11.3 |
| 4/24/2015 | 8:51:04 | 54.13 | 51.53 | 293 | 3.96 | 0.37 | 16.0 |
| 4/24/2015 | 8:51:06 | 54.46 | 51.86 | 332 | 4.88 | 0.36 | 18.2 |
| 4/24/2015 | 8:51:07 | 54.79 | 52.19 | 345 | 4.85 | 0.37 | 18.9 |
| 4/24/2015 | 8:51:08 | 55.12 | 52.52 | 356 | 3.17 | 0.37 | 19.5 |
| 4/24/2015 | 8:51:09 | 55.45 | 52.85 | 350 | 8.24 | 0.38 | 19.1 |
| 4/24/2015 | 8:51:10 | 55.77 | 53.17 | 321 | 5.88 | 0.38 | 17.6 |
| 4/24/2015 | 8:51:11 | 56.10 | 53.50 | 271 | 3.75 | 0.38 | 14.8 |
| 4/24/2015 | 8:51:13 | 56.43 | 53.83 | 258 | 3.21 | 0.38 | 14.1 |
| 4/24/2015 | 8:51:17 | 56.76 | 54.16 | 84 | 3.51 | 0.39 | 4.6 |
| 4/24/2015 | 8:51:21 | 57.09 | 54.49 | 87 | 3.94 | 0.39 | 4.7 |
| 4/24/2015 | 8:51:27 | 57.41 | 54.81 | 66 | 3.65 | 0.39 | 3.6 |
| 4/24/2015 | 8:51:32 | 57.74 | 55.14 | 60 | 3.73 | 0.40 | 3.3 |
| 4/24/2015 | 8:51:33 | 57.81 | 55.21 | 61 | 3.78 | 0.39 | 3.4 |

## H242 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:48:04

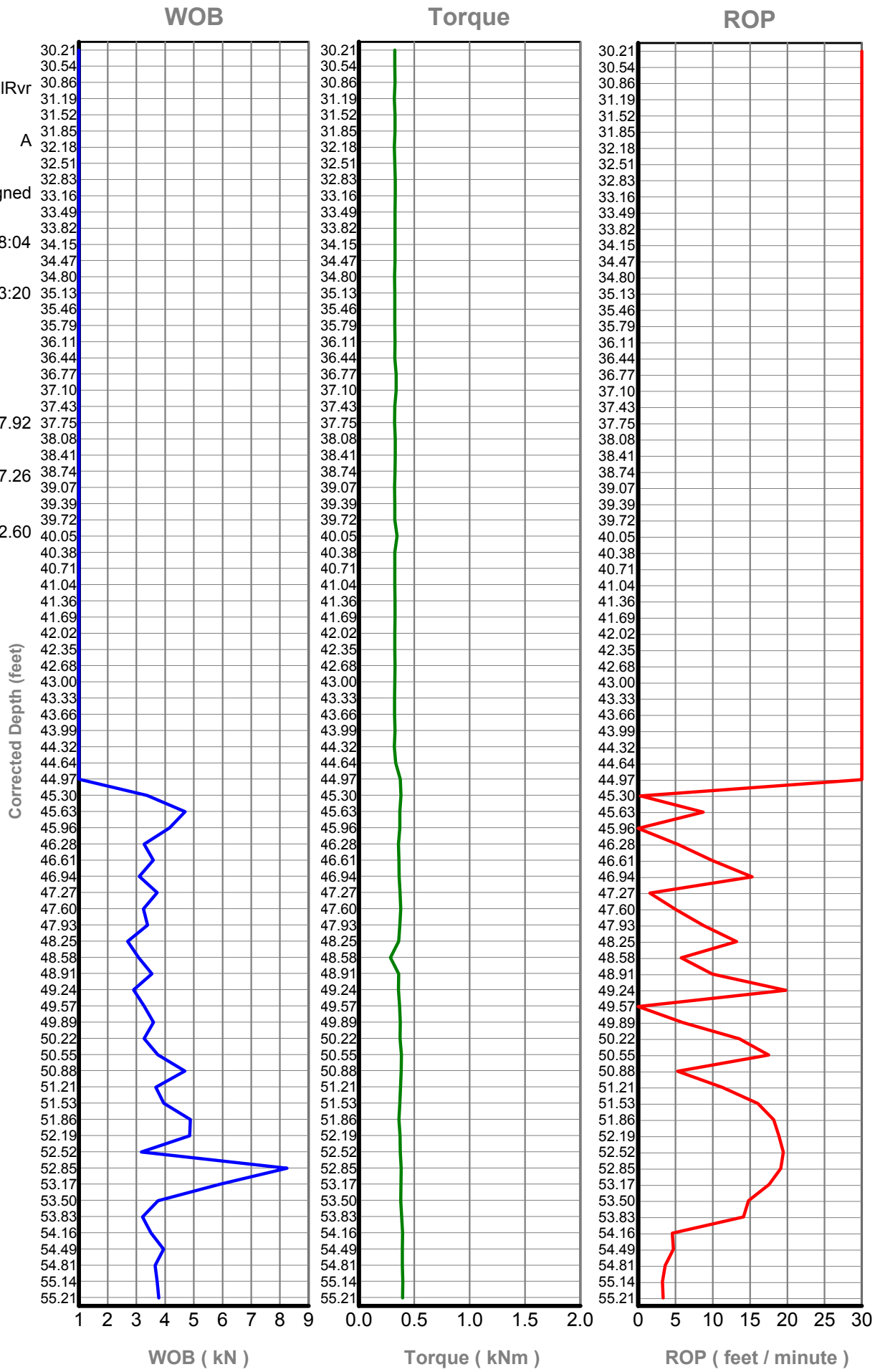
**End Date:**
4/24/2015 8:53:20

**Operator Note:**
'2.6 '1.7 2.8 b Auto Complete'

**Northing:**
366,907.92

**Easting:**
251,217.26

**Tide (feet):**
2.60



## Hole: H243 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:43:22 | 32.81 | 30.11 | 590 | 1.99 | 0.32 | 32.2 |
| 4/24/2015 8:43:24 | 33.14 | 30.44 | 580 | 1.98 | 0.32 | 31.7 |
| 4/24/2015 8:43:24 | 33.46 | 30.76 | 584 | 1.99 | 0.31 | 31.9 |
| 4/24/2015 8:43:25 | 33.79 | 31.09 | 583 | 1.98 | 0.32 | 31.9 |
| 4/24/2015 8:43:25 | 34.12 | 31.42 | 587 | 2.05 | 0.32 | 32.1 |
| 4/24/2015 8:43:26 | 34.45 | 31.75 | 587 | 1.99 | 0.32 | 32.1 |
| 4/24/2015 8:43:26 | 34.78 | 32.08 | 593 | 1.98 | 0.31 | 32.5 |
| 4/24/2015 8:43:27 | 35.11 | 32.41 | 591 | 1.99 | 0.33 | 32.3 |
| 4/24/2015 8:43:28 | 35.43 | 32.73 | 587 | 1.98 | 0.33 | 32.1 |
| 4/24/2015 8:43:28 | 35.76 | 33.06 | 593 | 1.98 | 0.32 | 32.4 |
| 4/24/2015 8:43:29 | 36.09 | 33.39 | 593 | 1.96 | 0.32 | 32.4 |
| 4/24/2015 8:43:29 | 36.42 | 33.72 | 595 | 2.03 | 0.31 | 32.6 |
| 4/24/2015 8:43:30 | 36.75 | 34.05 | 589 | 1.95 | 0.32 | 32.2 |
| 4/24/2015 8:43:30 | 37.07 | 34.37 | 585 | 1.99 | 0.31 | 32.0 |
| 4/24/2015 8:43:31 | 37.40 | 34.70 | 590 | 1.98 | 0.32 | 32.3 |
| 4/24/2015 8:43:32 | 37.73 | 35.03 | 589 | 1.98 | 0.32 | 32.2 |
| 4/24/2015 8:43:32 | 38.06 | 35.36 | 595 | 2.00 | 0.31 | 32.6 |
| 4/24/2015 8:43:33 | 38.39 | 35.69 | 598 | 1.98 | 0.39 | 32.7 |
| 4/24/2015 8:43:34 | 38.71 | 36.01 | 603 | 1.99 | 0.33 | 32.9 |
| 4/24/2015 8:43:34 | 39.04 | 36.34 | 595 | 2.04 | 0.32 | 32.5 |
| 4/24/2015 8:43:35 | 39.37 | 36.67 | 583 | 1.99 | 0.33 | 31.9 |
| 4/24/2015 8:43:36 | 39.70 | 37.00 | 590 | 1.97 | 0.31 | 32.2 |
| 4/24/2015 8:43:36 | 40.03 | 37.33 | 590 | 1.96 | 0.32 | 32.2 |
| 4/24/2015 8:43:37 | 40.35 | 37.65 | 593 | 1.98 | 0.32 | 32.4 |
| 4/24/2015 8:43:37 | 40.68 | 37.98 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 8:43:38 | 41.01 | 38.31 | 595 | 1.98 | 0.32 | 32.5 |
| 4/24/2015 8:43:38 | 41.34 | 38.64 | 592 | 1.96 | 0.32 | 32.4 |
| 4/24/2015 8:43:39 | 41.67 | 38.97 | 601 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 8:43:40 | 41.99 | 39.29 | 610 | 1.98 | 0.32 | 33.4 |
| 4/24/2015 8:43:40 | 42.32 | 39.62 | 616 | 1.96 | 0.32 | 33.7 |
| 4/24/2015 8:43:41 | 42.65 | 39.95 | 622 | 1.98 | 0.32 | 34.0 |
| 4/24/2015 8:43:41 | 42.98 | 40.28 | 619 | 1.98 | 0.31 | 33.8 |
| 4/24/2015 8:43:42 | 43.31 | 40.61 | 619 | 1.98 | 0.32 | 33.8 |
| 4/24/2015 8:43:42 | 43.64 | 40.94 | 622 | 1.98 | 0.32 | 34.0 |
| 4/24/2015 8:43:43 | 43.96 | 41.26 | 622 | 1.98 | 0.32 | 34.0 |
| 4/24/2015 8:43:43 | 44.29 | 41.59 | 619 | 1.92 | 0.32 | 33.8 |
| 4/24/2015 8:43:44 | 44.62 | 41.92 | 616 | 1.97 | 0.32 | 33.7 |
| 4/24/2015 8:43:45 | 44.95 | 42.25 | 616 | 1.99 | 0.32 | 33.7 |
| 4/24/2015 8:43:46 | 45.28 | 42.58 | 613 | 1.97 | 0.32 | 33.5 |
| 4/24/2015 8:43:46 | 45.60 | 42.90 | 616 | 1.98 | 0.31 | 33.7 |
| 4/24/2015 8:43:47 | 45.93 | 43.23 | 619 | 1.98 | 0.31 | 33.8 |
| 4/24/2015 8:43:47 | 46.26 | 43.56 | 619 | 1.98 | 0.31 | 33.8 |
| 4/24/2015 8:43:48 | 46.59 | 43.89 | 615 | 1.98 | 0.31 | 33.6 |
| 4/24/2015 8:43:48 | 46.92 | 44.22 | 622 | 2.00 | 0.31 | 34.0 |
| 4/24/2015 8:44:10 | 47.24 | 44.54 | 34 | 2.01 | 1.52 | 1.9 |
| 4/24/2015 8:44:22 | 47.57 | 44.87 | 26 | 1.97 | 1.27 | 1.4 |
| 4/24/2015 8:44:23 | 47.90 | 45.20 | 217 | 1.99 | 1.30 | 11.9 |
| 4/24/2015 8:44:24 | 48.23 | 45.53 | 310 | 1.94 | 1.26 | 17.0 |
| 4/24/2015 8:44:26 | 48.56 | 45.86 | 309 | 1.95 | 1.16 | 16.9 |
| 4/24/2015 8:44:45 | 48.88 | 46.18 | 26 | 1.95 | 1.17 | 1.4 |
| 4/24/2015 8:44:47 | 49.21 | 46.51 | 183 | 2.00 | 1.06 | 10.0 |
| 4/24/2015 8:44:48 | 49.54 | 46.84 | 260 | 2.02 | 1.14 | 14.2 |
| 4/24/2015 8:44:49 | 49.87 | 47.17 | 309 | 1.99 | 0.91 | 16.9 |
| 4/24/2015 8:44:50 | 50.20 | 47.50 | 356 | 1.98 | 0.90 | 19.5 |
| 4/24/2015 8:45:16 | 50.53 | 47.83 | 60 | 1.95 | 1.07 | 3.3 |
| 4/24/2015 8:45:18 | 50.85 | 48.15 | 144 | 1.99 | 1.12 | 7.9 |
| 4/24/2015 8:46:48 | 51.18 | 48.48 | 31 | 1.98 | 1.20 | 1.7 |
| 4/24/2015 8:46:57 | 51.51 | 48.81 | 34 | 1.99 | 1.18 | 1.8 |
| 4/24/2015 8:47:05 | 51.84 | 49.14 | 36 | 2.00 | 1.20 | 1.9 |
| 4/24/2015 8:47:16 | 52.17 | 49.47 | 35 | 1.98 | 1.15 | 1.9 |
| 4/24/2015 8:47:27 | 52.49 | 49.79 | 36 | 1.98 | 1.35 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:47:38 | 52.82 | 50.12 | 32 | 1.99 | 1.14 | 1.7 |
| 4/24/2015 | 8:47:44 | 53.02 | 50.32 | 35 | 2.01 | 1.19 | 1.9 |

## H243 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:41:48

**End Date:**
4/24/2015 8:49:32

**Operator Note:**
'2.7 3.0 C Auto Complete'

**Northing:**
366,955.10

**Easting:**
251,275.41

**Tide (feet):**
2.70



## Hole: H244 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:18:20 | 30.84 | 30.24 | 905 | 1.91 | 0.32 | 49.5 |
| 4/24/2015 1:18:20 | 31.17 | 30.57 | 905 | 1.91 | 0.32 | 49.5 |
| 4/24/2015 1:18:20 | 31.50 | 30.90 | 894 | 1.91 | 0.33 | 48.9 |
| 4/24/2015 1:18:21 | 31.82 | 31.22 | 908 | 1.91 | 0.32 | 49.6 |
| 4/24/2015 1:18:21 | 32.15 | 31.55 | 902 | 1.91 | 0.32 | 49.3 |
| 4/24/2015 1:18:22 | 32.48 | 31.88 | 902 | 1.91 | 0.32 | 49.3 |
| 4/24/2015 1:18:22 | 32.81 | 32.21 | 916 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:18:22 | 33.14 | 32.54 | 922 | 0.35 | 0.33 | 50.4 |
| 4/24/2015 1:18:23 | 33.46 | 32.86 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 1:18:23 | 33.79 | 33.19 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 1:18:23 | 34.12 | 33.52 | 939 | 0.34 | 0.32 | 51.4 |
| 4/24/2015 1:18:24 | 34.45 | 33.85 | 939 | 0.36 | 0.33 | 51.4 |
| 4/24/2015 1:18:24 | 34.78 | 34.18 | 939 | 0.36 | 0.33 | 51.4 |
| 4/24/2015 1:18:24 | 35.11 | 34.51 | 934 | 0.36 | 0.32 | 51.1 |
| 4/24/2015 1:18:25 | 35.43 | 34.83 | 939 | 0.36 | 0.32 | 51.4 |
| 4/24/2015 1:18:25 | 35.76 | 35.16 | 931 | 0.36 | 0.33 | 50.9 |
| 4/24/2015 1:18:26 | 36.09 | 35.49 | 931 | 0.36 | 0.33 | 50.9 |
| 4/24/2015 1:18:26 | 36.42 | 35.82 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:26 | 36.75 | 36.15 | 917 | 0.36 | 0.33 | 50.1 |
| 4/24/2015 1:18:27 | 37.07 | 36.47 | 923 | 0.35 | 0.32 | 50.5 |
| 4/24/2015 1:18:27 | 37.40 | 36.80 | 923 | 0.35 | 0.32 | 50.5 |
| 4/24/2015 1:18:27 | 37.73 | 37.13 | 917 | 0.35 | 0.33 | 50.1 |
| 4/24/2015 1:18:28 | 38.06 | 37.46 | 920 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 1:18:29 | 38.39 | 37.79 | 917 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:18:29 | 38.71 | 38.11 | 917 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:18:29 | 39.04 | 38.44 | 937 | 0.35 | 0.33 | 51.2 |
| 4/24/2015 1:18:30 | 39.37 | 38.77 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 1:18:30 | 39.70 | 39.10 | 934 | 0.35 | 0.33 | 51.1 |
| 4/24/2015 1:18:31 | 40.03 | 39.43 | 934 | 0.35 | 0.33 | 51.1 |
| 4/24/2015 1:18:31 | 40.35 | 39.75 | 937 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 1:18:31 | 40.68 | 40.08 | 932 | 0.35 | 0.33 | 50.9 |
| 4/24/2015 1:18:32 | 41.01 | 40.41 | 928 | 0.35 | 0.32 | 50.8 |
| 4/24/2015 1:18:32 | 41.34 | 40.74 | 928 | 0.35 | 0.32 | 50.8 |
| 4/24/2015 1:18:32 | 41.67 | 41.07 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:33 | 41.99 | 41.39 | 917 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:18:33 | 42.32 | 41.72 | 920 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 1:18:34 | 42.65 | 42.05 | 920 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 1:18:34 | 42.98 | 42.38 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:34 | 43.31 | 42.71 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 1:18:35 | 43.64 | 43.04 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 1:18:35 | 43.96 | 43.36 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 1:18:35 | 44.29 | 43.69 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 1:18:36 | 44.62 | 44.02 | 931 | 0.35 | 0.31 | 50.9 |
| 4/24/2015 1:18:36 | 44.95 | 44.35 | 931 | 0.35 | 0.31 | 50.9 |
| 4/24/2015 1:18:36 | 45.28 | 44.68 | 923 | 0.35 | 0.33 | 50.5 |
| 4/24/2015 1:18:37 | 45.60 | 45.00 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:37 | 45.93 | 45.33 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:38 | 46.26 | 45.66 | 926 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 1:18:39 | 46.59 | 45.99 | 685 | 0.33 | 0.40 | 37.5 |
| 4/24/2015 1:18:43 | 46.92 | 46.32 | 84 | 0.34 | 0.38 | 4.6 |
| 4/24/2015 1:18:45 | 47.24 | 46.64 | 160 | 0.37 | 0.39 | 8.7 |
| 4/24/2015 1:19:06 | 47.57 | 46.97 | 0 | 3.35 | 0.36 | 0.0 |
| 4/24/2015 1:19:11 | 47.90 | 47.30 | 46 | 5.55 | 0.38 | 2.5 |
| 4/24/2015 1:19:14 | 48.23 | 47.63 | 113 | 5.17 | 0.39 | 6.2 |
| 4/24/2015 1:19:16 | 48.56 | 47.96 | 133 | 3.01 | 0.38 | 7.3 |
| 4/24/2015 1:19:18 | 48.88 | 48.28 | 224 | 5.11 | 0.38 | 12.3 |
| 4/24/2015 1:19:21 | 49.21 | 48.61 | 155 | 4.39 | 0.37 | 8.5 |
| 4/24/2015 1:19:23 | 49.54 | 48.94 | 142 | 3.93 | 0.40 | 7.8 |
| 4/24/2015 1:19:24 | 49.87 | 49.27 | 206 | 3.17 | 0.38 | 11.2 |
| 4/24/2015 1:19:26 | 50.20 | 49.60 | 167 | 4.21 | 0.36 | 9.1 |
| 4/24/2015 1:19:28 | 50.53 | 49.93 | 142 | 3.30 | 0.37 | 7.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:19:29 | 50.85 | 50.25 | 264 | 3.60 | 0.37 | 14.4 |
| 4/24/2015 | 1:19:30 | 51.18 | 50.58 | 283 | 5.80 | 0.37 | 15.5 |
| 4/24/2015 | 1:19:32 | 51.51 | 50.91 | 204 | 3.09 | 0.37 | 11.1 |
| 4/24/2015 | 1:19:33 | 51.84 | 51.24 | 253 | 2.83 | 0.37 | 13.8 |
| 4/24/2015 | 1:19:34 | 52.17 | 51.57 | 301 | 3.32 | 0.38 | 16.5 |
| 4/24/2015 | 1:19:35 | 52.49 | 51.89 | 341 | 2.80 | 0.37 | 18.7 |
| 4/24/2015 | 1:19:36 | 52.82 | 52.22 | 379 | 3.31 | 0.37 | 20.7 |
| 4/24/2015 | 1:19:36 | 53.15 | 52.55 | 383 | 3.00 | 0.37 | 20.9 |
| 4/24/2015 | 1:19:37 | 53.48 | 52.88 | 391 | 3.01 | 0.36 | 21.4 |
| 4/24/2015 | 1:19:38 | 53.81 | 53.21 | 412 | 3.46 | 0.37 | 22.5 |
| 4/24/2015 | 1:19:39 | 54.13 | 53.53 | 421 | 3.67 | 0.37 | 23.0 |
| 4/24/2015 | 1:19:40 | 54.46 | 53.86 | 427 | 3.52 | 0.37 | 23.3 |
| 4/24/2015 | 1:19:41 | 54.79 | 54.19 | 405 | 3.98 | 0.38 | 22.1 |
| 4/24/2015 | 1:19:46 | 55.02 | 54.42 | 47 | 4.45 | 0.40 | 2.6 |

## H244 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 1:14:32

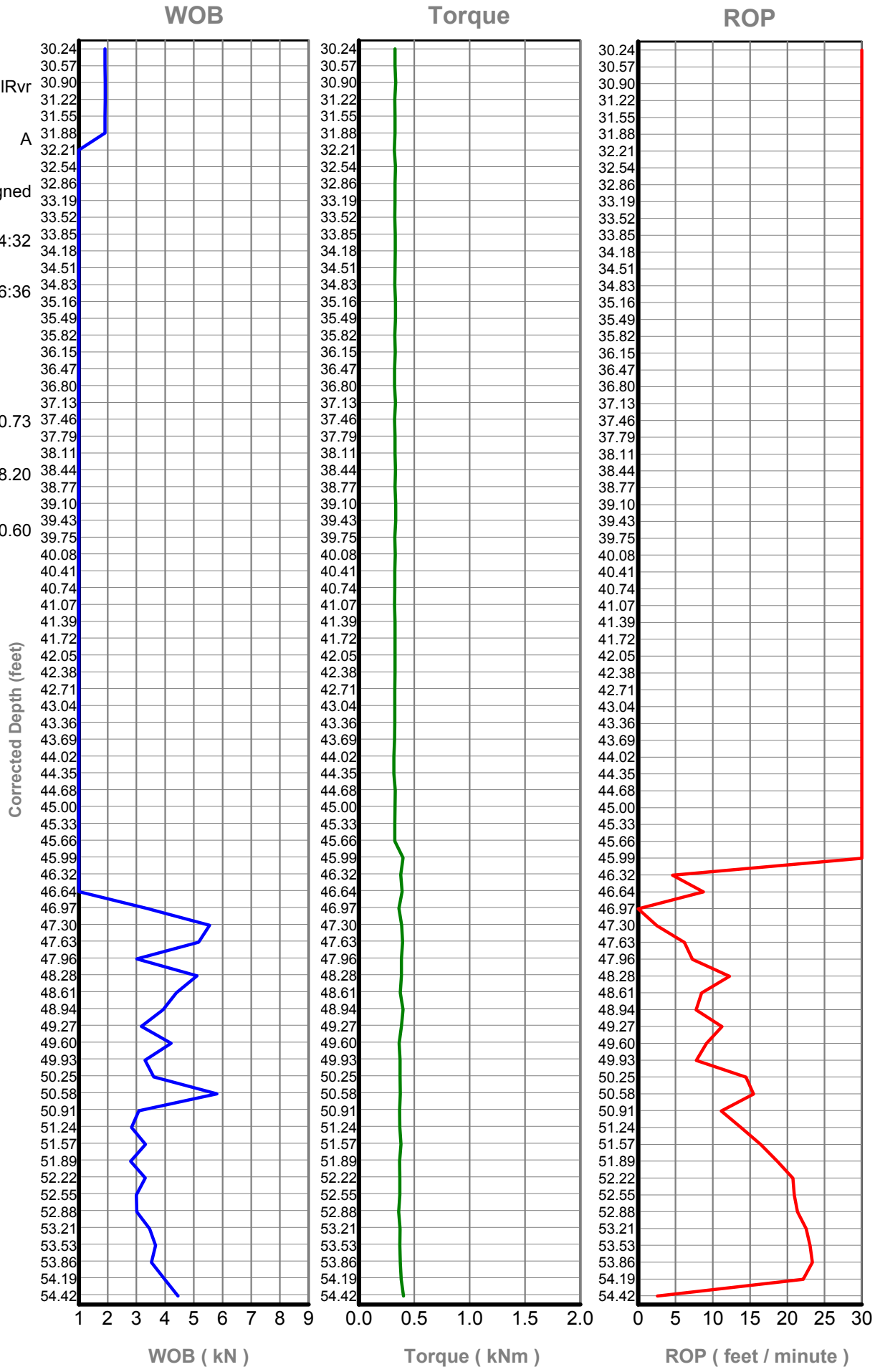
**End Date:**
4/24/2015 1:26:36

**Operator Note:**
'0.6 .4 b Auto Complete'

**Northing:**
367,000.73

**Easting:**
251,338.20

**Tide (feet):**
0.60



## Hole: H245 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:29:23 | 31.17 | 30.27 | 914 | 0.36 | 0.32 | 50.0 |
| 4/24/2015 1:29:24 | 31.50 | 30.60 | 914 | 0.36 | 0.32 | 50.0 |
| 4/24/2015 1:29:24 | 31.82 | 30.92 | 922 | 0.36 | 0.33 | 50.4 |
| 4/24/2015 1:29:25 | 32.15 | 31.25 | 914 | 0.36 | 0.32 | 50.0 |
| 4/24/2015 1:29:25 | 32.48 | 31.58 | 916 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:29:26 | 32.81 | 31.91 | 916 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:29:26 | 33.14 | 32.24 | 922 | 0.36 | 0.32 | 50.4 |
| 4/24/2015 1:29:26 | 33.46 | 32.56 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 1:29:27 | 33.79 | 32.89 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 1:29:27 | 34.12 | 33.22 | 934 | 0.35 | 0.32 | 51.1 |
| 4/24/2015 1:29:27 | 34.45 | 33.55 | 931 | 0.36 | 0.32 | 50.9 |
| 4/24/2015 1:29:28 | 34.78 | 33.88 | 928 | 0.35 | 0.32 | 50.7 |
| 4/24/2015 1:29:28 | 35.11 | 34.21 | 928 | 0.36 | 0.35 | 50.7 |
| 4/24/2015 1:29:29 | 35.43 | 34.53 | 928 | 0.36 | 0.35 | 50.7 |
| 4/24/2015 1:29:29 | 35.76 | 34.86 | 928 | 0.35 | 0.33 | 50.7 |
| 4/24/2015 1:29:29 | 36.09 | 35.19 | 916 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:29:30 | 36.42 | 35.52 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 1:29:30 | 36.75 | 35.85 | 911 | 0.35 | 0.32 | 49.8 |
| 4/24/2015 1:29:30 | 37.07 | 36.17 | 902 | 0.36 | 0.33 | 49.3 |
| 4/24/2015 1:29:31 | 37.40 | 36.50 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 1:29:31 | 37.73 | 36.83 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 1:29:32 | 38.06 | 37.16 | 899 | 0.35 | 0.32 | 49.2 |
| 4/24/2015 1:29:32 | 38.39 | 37.49 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 1:29:32 | 38.71 | 37.81 | 908 | 0.36 | 0.32 | 49.6 |
| 4/24/2015 1:29:33 | 39.04 | 38.14 | 903 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 1:29:33 | 39.37 | 38.47 | 903 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 1:29:33 | 39.70 | 38.80 | 903 | 0.35 | 0.32 | 49.4 |
| 4/24/2015 1:29:34 | 40.03 | 39.13 | 913 | 0.35 | 0.32 | 49.9 |
| 4/24/2015 1:29:34 | 40.35 | 39.45 | 913 | 0.35 | 0.33 | 49.9 |
| 4/24/2015 1:29:35 | 40.68 | 39.78 | 913 | 0.35 | 0.33 | 49.9 |
| 4/24/2015 1:29:35 | 41.01 | 40.11 | 913 | 0.35 | 0.32 | 49.9 |
| 4/24/2015 1:29:36 | 41.34 | 40.44 | 910 | 0.35 | 0.33 | 49.8 |
| 4/24/2015 1:29:36 | 41.67 | 40.77 | 918 | 0.35 | 0.33 | 50.2 |
| 4/24/2015 1:29:37 | 41.99 | 41.09 | 918 | 0.35 | 0.33 | 50.2 |
| 4/24/2015 1:29:37 | 42.32 | 41.42 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 1:29:37 | 42.65 | 41.75 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 1:29:38 | 42.98 | 42.08 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 1:29:38 | 43.31 | 42.41 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 1:29:38 | 43.64 | 42.74 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 1:29:39 | 43.96 | 43.06 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 1:29:39 | 44.29 | 43.39 | 919 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 1:29:40 | 44.62 | 43.72 | 919 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 1:29:40 | 44.95 | 44.05 | 916 | 0.35 | 0.32 | 50.1 |
| 4/24/2015 1:29:40 | 45.28 | 44.38 | 919 | 0.35 | 0.33 | 50.3 |
| 4/24/2015 1:29:41 | 45.60 | 44.70 | 916 | 0.35 | 0.33 | 50.1 |
| 4/24/2015 1:29:41 | 45.93 | 45.03 | 916 | 0.35 | 0.33 | 50.1 |
| 4/24/2015 1:29:41 | 46.26 | 45.36 | 906 | 0.34 | 0.34 | 49.5 |
| 4/24/2015 1:30:01 | 46.59 | 45.69 | 0 | 3.37 | 0.36 | 0.0 |
| 4/24/2015 1:30:02 | 46.92 | 46.02 | 77 | 3.03 | 0.35 | 4.2 |
| 4/24/2015 1:30:13 | 47.24 | 46.34 | 126 | 3.11 | 0.38 | 6.9 |
| 4/24/2015 1:30:16 | 47.57 | 46.67 | 66 | 2.88 | 0.37 | 3.6 |
| 4/24/2015 1:30:17 | 47.90 | 47.00 | 205 | 3.59 | 0.36 | 11.2 |
| 4/24/2015 1:30:18 | 48.23 | 47.33 | 291 | 4.36 | 0.35 | 15.9 |
| 4/24/2015 1:30:19 | 48.56 | 47.66 | 445 | 3.48 | 0.37 | 24.3 |
| 4/24/2015 1:30:21 | 48.88 | 47.98 | 234 | 5.74 | 0.36 | 12.8 |
| 4/24/2015 1:30:22 | 49.21 | 48.31 | 180 | 5.00 | 0.39 | 9.8 |
| 4/24/2015 1:30:32 | 49.54 | 48.64 | 0 | 2.20 | 0.32 | 0.0 |
| 4/24/2015 1:30:33 | 49.87 | 48.97 | 100 | 6.01 | 0.38 | 5.4 |
| 4/24/2015 1:30:35 | 50.20 | 49.30 | 248 | 3.33 | 0.36 | 13.6 |
| 4/24/2015 1:30:38 | 50.53 | 49.63 | 46 | 2.57 | 0.36 | 2.5 |
| 4/24/2015 1:30:39 | 50.85 | 49.95 | 169 | 2.65 | 0.36 | 9.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:30:40 | 51.18 | 50.28 | 324 | 4.11 | 0.38 | 17.7 |
| 4/24/2015 | 1:30:41 | 51.51 | 50.61 | 314 | 2.67 | 0.36 | 17.2 |
| 4/24/2015 | 1:30:42 | 51.84 | 50.94 | 312 | 2.56 | 0.35 | 17.1 |
| 4/24/2015 | 1:30:42 | 52.17 | 51.27 | 384 | 2.86 | 0.36 | 21.0 |
| 4/24/2015 | 1:30:43 | 52.49 | 51.59 | 424 | 3.51 | 0.37 | 23.2 |
| 4/24/2015 | 1:30:44 | 52.82 | 51.92 | 464 | 3.26 | 0.36 | 25.4 |
| 4/24/2015 | 1:30:45 | 53.15 | 52.25 | 496 | 2.55 | 0.36 | 27.1 |
| 4/24/2015 | 1:30:45 | 53.48 | 52.58 | 464 | 2.58 | 0.36 | 25.4 |
| 4/24/2015 | 1:30:46 | 53.81 | 52.91 | 478 | 3.33 | 0.37 | 26.1 |
| 4/24/2015 | 1:30:49 | 54.13 | 53.23 | 213 | 4.92 | 0.40 | 11.6 |
| 4/24/2015 | 1:30:53 | 54.46 | 53.56 | 63 | 4.15 | 0.37 | 3.4 |
| 4/24/2015 | 1:30:54 | 54.79 | 53.89 | 63 | 2.95 | 0.36 | 3.4 |
| 4/24/2015 | 1:30:54 | 55.12 | 54.22 | 157 | 2.42 | 0.35 | 8.6 |
| 4/24/2015 | 1:30:55 | 55.45 | 54.55 | 287 | 2.48 | 0.35 | 15.7 |
| 4/24/2015 | 1:30:55 | 55.77 | 54.87 | 419 | 2.74 | 0.35 | 22.9 |
| 4/24/2015 | 1:30:56 | 56.09 | 55.19 | 539 | 3.20 | 0.37 | 29.5 |

## H245 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 1:26:41

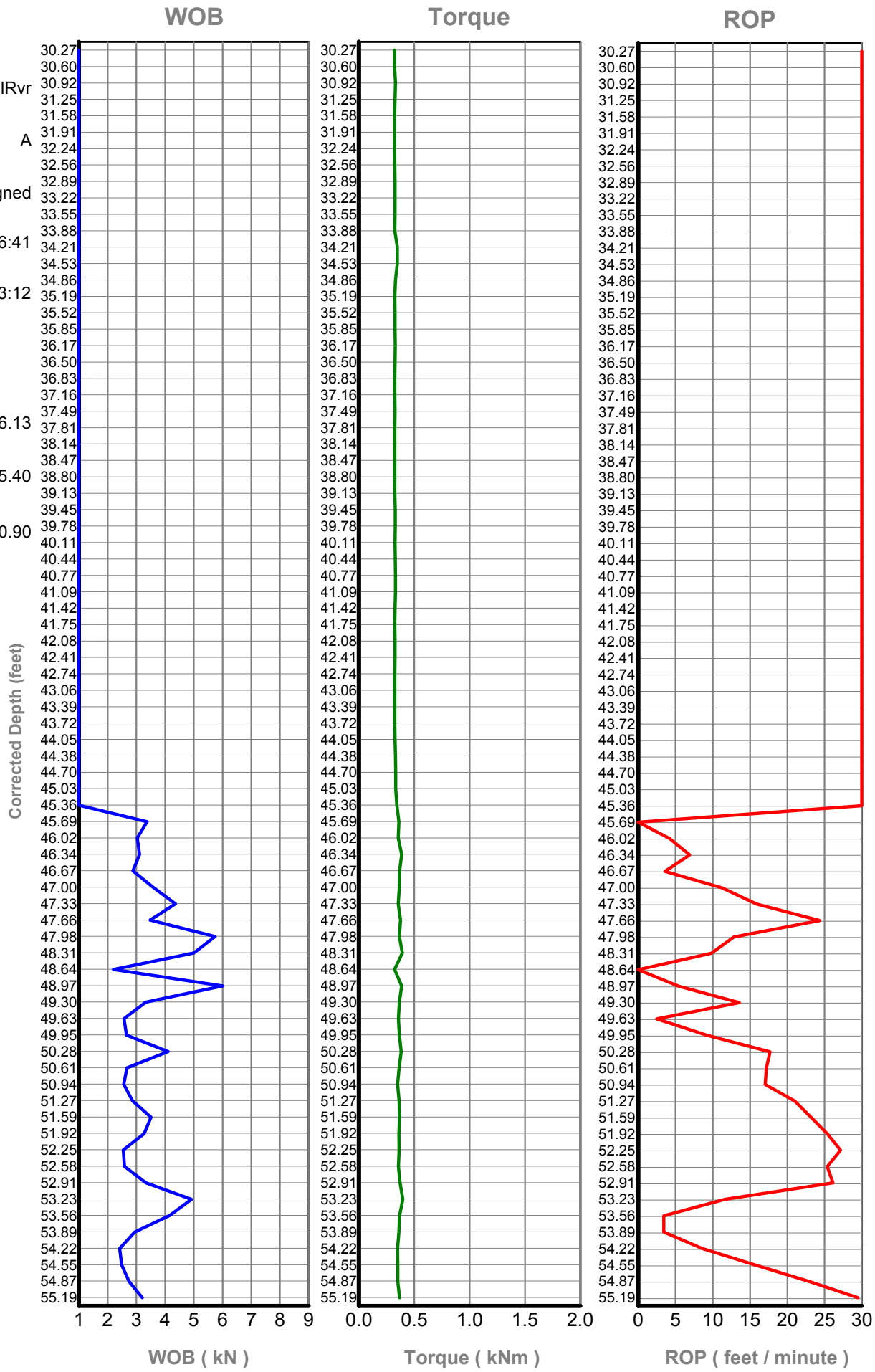
**End Date:**
4/24/2015 1:33:12

**Operator Note:**
'0.9 .7 b Auto Complete'

**Northing:**
367,036.13

**Easting:**
251,385.40

**Tide (feet):**
0.90



## Hole: H246 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:16:49 | 30.84 | 30.14 | 546 | 1.98 | 0.11 | 29.8 |
| 4/24/2015 1:16:50 | 31.17 | 30.47 | 550 | 1.98 | 0.18 | 30.1 |
| 4/24/2015 1:16:51 | 31.50 | 30.80 | 550 | 2.00 | 0.18 | 30.1 |
| 4/24/2015 1:16:51 | 31.82 | 31.12 | 550 | 2.03 | 0.18 | 30.1 |
| 4/24/2015 1:16:52 | 32.15 | 31.45 | 556 | 2.00 | 0.18 | 30.4 |
| 4/24/2015 1:16:53 | 32.48 | 31.78 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 1:16:54 | 32.81 | 32.11 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 1:16:54 | 33.14 | 32.44 | 549 | 2.00 | 0.18 | 30.0 |
| 4/24/2015 1:16:55 | 33.46 | 32.76 | 546 | 1.99 | 0.18 | 29.9 |
| 4/24/2015 1:16:55 | 33.79 | 33.09 | 549 | 2.01 | 0.18 | 30.0 |
| 4/24/2015 1:16:56 | 34.12 | 33.42 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 1:16:57 | 34.45 | 33.75 | 549 | 1.98 | 0.18 | 30.0 |
| 4/24/2015 1:16:57 | 34.78 | 34.08 | 549 | 2.01 | 0.18 | 30.0 |
| 4/24/2015 1:16:58 | 35.11 | 34.41 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 1:16:59 | 35.43 | 34.73 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 1:16:59 | 35.76 | 35.06 | 549 | 2.00 | 0.18 | 30.0 |
| 4/24/2015 1:17:00 | 36.09 | 35.39 | 549 | 1.99 | 0.18 | 30.0 |
| 4/24/2015 1:17:00 | 36.42 | 35.72 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 1:17:01 | 36.75 | 36.05 | 546 | 2.02 | 0.18 | 29.9 |
| 4/24/2015 1:17:02 | 37.07 | 36.37 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 1:17:02 | 37.40 | 36.70 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 1:17:03 | 37.73 | 37.03 | 552 | 2.01 | 0.18 | 30.2 |
| 4/24/2015 1:17:04 | 38.06 | 37.36 | 544 | 2.01 | 0.18 | 29.7 |
| 4/24/2015 1:17:05 | 38.39 | 37.69 | 550 | 2.02 | 0.18 | 30.1 |
| 4/24/2015 1:17:05 | 38.71 | 38.01 | 541 | 2.00 | 0.18 | 29.6 |
| 4/24/2015 1:17:06 | 39.04 | 38.34 | 541 | 2.02 | 0.18 | 29.6 |
| 4/24/2015 1:17:07 | 39.37 | 38.67 | 553 | 2.00 | 0.18 | 30.2 |
| 4/24/2015 1:17:07 | 39.70 | 39.00 | 549 | 1.99 | 0.18 | 30.0 |
| 4/24/2015 1:17:08 | 40.03 | 39.33 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 1:17:08 | 40.35 | 39.65 | 552 | 1.99 | 0.18 | 30.2 |
| 4/24/2015 1:17:09 | 40.68 | 39.98 | 549 | 2.01 | 0.18 | 30.0 |
| 4/24/2015 1:17:10 | 41.01 | 40.31 | 549 | 2.28 | 0.18 | 30.0 |
| 4/24/2015 1:17:10 | 41.34 | 40.64 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 1:17:11 | 41.67 | 40.97 | 555 | 2.02 | 0.18 | 30.4 |
| 4/24/2015 1:17:12 | 41.99 | 41.29 | 549 | 2.00 | 0.18 | 30.0 |
| 4/24/2015 1:17:12 | 42.32 | 41.62 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 1:17:13 | 42.65 | 41.95 | 546 | 2.00 | 0.18 | 29.9 |
| 4/24/2015 1:17:14 | 42.98 | 42.28 | 546 | 1.98 | 0.26 | 29.9 |
| 4/24/2015 1:17:15 | 43.31 | 42.61 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 1:17:15 | 43.64 | 42.94 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 1:17:16 | 43.96 | 43.26 | 549 | 2.01 | 0.18 | 30.0 |
| 4/24/2015 1:17:16 | 44.29 | 43.59 | 543 | 2.00 | 0.18 | 29.7 |
| 4/24/2015 1:17:17 | 44.62 | 43.92 | 550 | 2.04 | 0.18 | 30.1 |
| 4/24/2015 1:17:18 | 44.95 | 44.25 | 547 | 1.97 | 0.18 | 29.9 |
| 4/24/2015 1:17:33 | 45.28 | 44.58 | 0 | 2.04 | 1.23 | 0.0 |
| 4/24/2015 1:17:34 | 45.60 | 44.90 | 84 | 2.02 | 1.23 | 4.6 |
| 4/24/2015 1:17:39 | 45.93 | 45.23 | 73 | 2.02 | 1.26 | 4.0 |
| 4/24/2015 1:17:40 | 46.26 | 45.56 | 215 | 1.99 | 1.21 | 11.8 |
| 4/24/2015 1:17:41 | 46.59 | 45.89 | 297 | 2.02 | 1.24 | 16.3 |
| 4/24/2015 1:17:57 | 46.92 | 46.22 | 0 | 2.01 | 1.10 | 0.0 |
| 4/24/2015 1:18:24 | 47.24 | 46.54 | 34 | 2.01 | 1.54 | 1.9 |
| 4/24/2015 1:18:28 | 47.57 | 46.87 | 84 | 2.01 | 1.48 | 4.6 |
| 4/24/2015 1:18:33 | 47.90 | 47.20 | 16 | 2.04 | 1.56 | 0.9 |
| 4/24/2015 1:18:35 | 48.23 | 47.53 | 106 | 2.02 | 1.39 | 5.8 |
| 4/24/2015 1:18:37 | 48.56 | 47.86 | 200 | 2.02 | 1.29 | 10.9 |
| 4/24/2015 1:19:04 | 48.88 | 48.18 | 81 | 2.00 | 1.54 | 4.4 |
| 4/24/2015 1:19:06 | 49.21 | 48.51 | 179 | 2.00 | 1.39 | 9.8 |
| 4/24/2015 1:19:07 | 49.54 | 48.84 | 202 | 2.02 | 1.51 | 11.1 |
| 4/24/2015 1:19:11 | 49.87 | 49.17 | 96 | 2.02 | 1.36 | 5.2 |
| 4/24/2015 1:19:12 | 50.20 | 49.50 | 156 | 2.02 | 1.17 | 8.5 |
| 4/24/2015 1:19:13 | 50.53 | 49.83 | 272 | 2.02 | 1.21 | 14.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:19:14 | 50.85 | 50.15 | 334 | 2.02 | 1.26 | 18.2 |
| 4/24/2015 | 1:19:15 | 51.18 | 50.48 | 353 | 2.01 | 1.21 | 19.3 |
| 4/24/2015 | 1:19:16 | 51.51 | 50.81 | 359 | 2.00 | 1.19 | 19.6 |
| 4/24/2015 | 1:19:17 | 51.84 | 51.14 | 359 | 1.91 | 1.19 | 19.6 |
| 4/24/2015 | 1:19:20 | 52.17 | 51.47 | 92 | 2.01 | 1.31 | 5.0 |
| 4/24/2015 | 1:19:21 | 52.49 | 51.79 | 216 | 2.01 | 1.17 | 11.8 |
| 4/24/2015 | 1:19:22 | 52.82 | 52.12 | 290 | 2.00 | 1.18 | 15.8 |
| 4/24/2015 | 1:19:27 | 53.15 | 52.45 | 90 | 2.00 | 1.15 | 4.9 |
| 4/24/2015 | 1:19:28 | 53.48 | 52.78 | 233 | 2.03 | 1.52 | 12.7 |
| 4/24/2015 | 1:19:34 | 53.81 | 53.11 | 108 | 2.01 | 1.23 | 5.9 |
| 4/24/2015 | 1:19:38 | 54.13 | 53.43 | 17 | 2.00 | 1.19 | 0.9 |
| 4/24/2015 | 1:19:39 | 54.46 | 53.76 | 153 | 2.02 | 1.22 | 8.4 |
| 4/24/2015 | 1:19:40 | 54.79 | 54.09 | 214 | 2.00 | 1.25 | 11.7 |
| 4/24/2015 | 1:19:42 | 55.12 | 54.42 | 204 | 2.01 | 1.30 | 11.1 |
| 4/24/2015 | 1:19:44 | 55.36 | 54.66 | 153 | 2.01 | 1.26 | 8.4 |

## H246 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 1:15:09

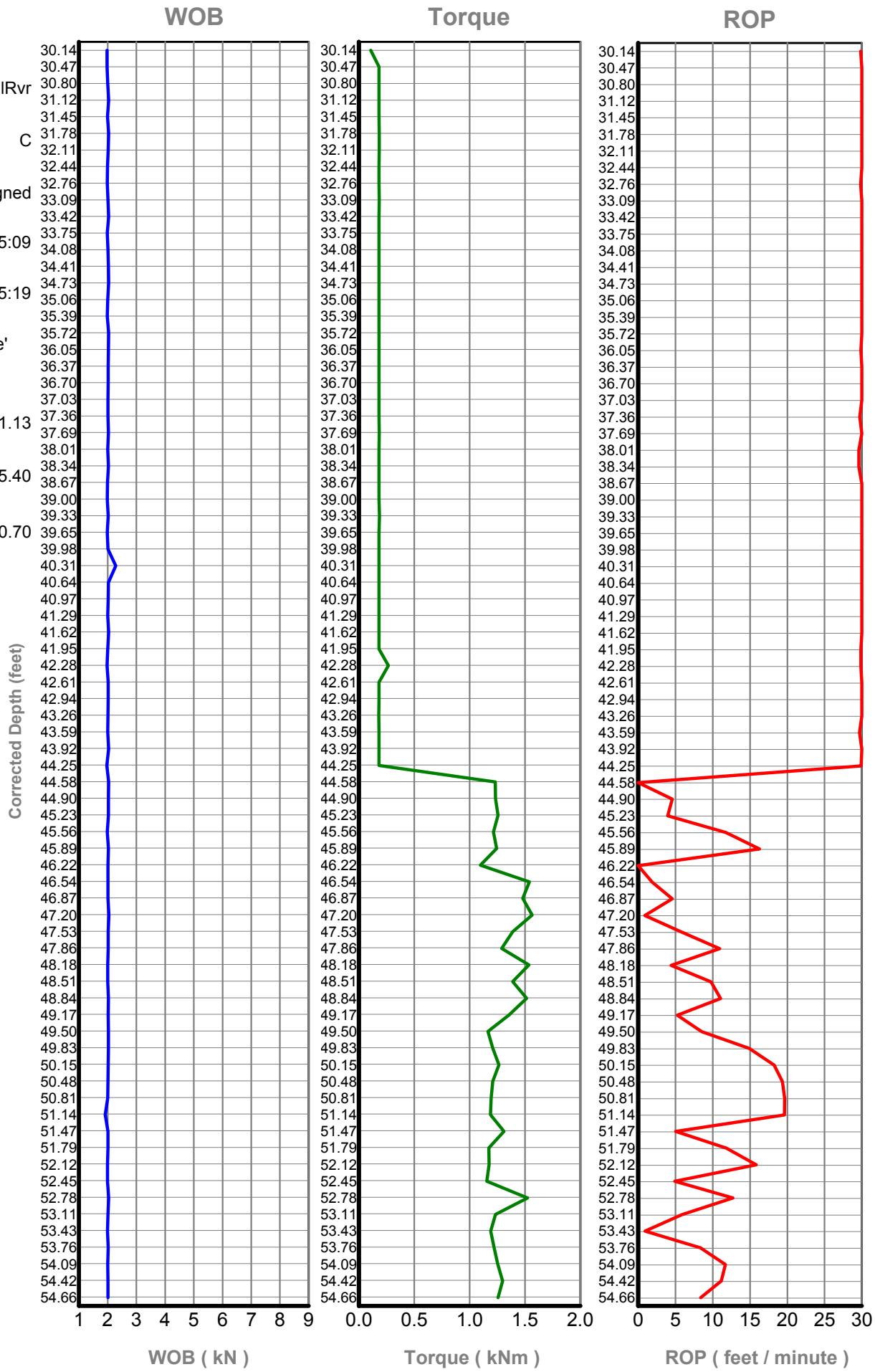
**End Date:**
4/24/2015 1:25:19

**Operator Note:**
'0.7 0.4 c Auto Complete'

**Northing:**
367,081.13

**Easting:**
251,445.40

**Tide (feet):**
0.70



## Hole: H247 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:58:19 | 32.15 | 30.05 | 740 | 0.21 | 0.34 | 40.5 |
| 4/23/2015 20:58:20 | 32.48 | 30.38 | 749 | 0.20 | 0.34 | 41.0 |
| 4/23/2015 20:58:20 | 32.81 | 30.71 | 749 | 0.20 | 0.34 | 41.0 |
| 4/23/2015 20:58:20 | 33.14 | 31.04 | 756 | 0.21 | 0.34 | 41.4 |
| 4/23/2015 20:58:21 | 33.46 | 31.36 | 757 | 0.21 | 0.34 | 41.4 |
| 4/23/2015 20:58:21 | 33.79 | 31.69 | 757 | 0.21 | 0.34 | 41.4 |
| 4/23/2015 20:58:22 | 34.12 | 32.02 | 757 | 0.21 | 0.34 | 41.4 |
| 4/23/2015 20:58:22 | 34.45 | 32.35 | 750 | 0.21 | 0.34 | 41.0 |
| 4/23/2015 20:58:23 | 34.78 | 32.68 | 757 | 0.13 | 0.30 | 41.4 |
| 4/23/2015 20:58:51 | 35.11 | 33.01 | 0 | 0.22 | 0.33 | 0.0 |
| 4/23/2015 20:58:52 | 35.43 | 33.33 | 163 | 0.22 | 0.33 | 8.9 |
| 4/23/2015 20:58:52 | 35.76 | 33.66 | 334 | 0.22 | 0.33 | 18.3 |
| 4/23/2015 20:58:53 | 36.09 | 33.99 | 505 | 0.22 | 0.33 | 27.6 |
| 4/23/2015 20:58:53 | 36.42 | 34.32 | 670 | 0.22 | 0.33 | 36.7 |
| 4/23/2015 20:58:54 | 36.75 | 34.65 | 670 | 0.22 | 0.33 | 36.7 |
| 4/23/2015 20:58:54 | 37.07 | 34.97 | 839 | 0.22 | 0.33 | 45.9 |
| 4/23/2015 20:58:54 | 37.40 | 35.30 | 850 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 20:58:55 | 37.73 | 35.63 | 847 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 20:58:56 | 38.06 | 35.96 | 847 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 20:58:56 | 38.39 | 36.29 | 847 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 20:58:56 | 38.71 | 36.61 | 853 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:58:57 | 39.04 | 36.94 | 858 | 0.22 | 0.33 | 46.9 |
| 4/23/2015 20:58:57 | 39.37 | 37.27 | 861 | 0.22 | 0.33 | 47.1 |
| 4/23/2015 20:58:58 | 39.70 | 37.60 | 864 | 0.22 | 0.32 | 47.3 |
| 4/23/2015 20:58:58 | 40.03 | 37.93 | 864 | 0.22 | 0.32 | 47.3 |
| 4/23/2015 20:58:58 | 40.35 | 38.25 | 865 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 20:58:59 | 40.68 | 38.58 | 873 | 0.22 | 0.33 | 47.7 |
| 4/23/2015 20:58:59 | 41.01 | 38.91 | 870 | 0.22 | 0.33 | 47.6 |
| 4/23/2015 20:59:00 | 41.34 | 39.24 | 870 | 0.22 | 0.33 | 47.6 |
| 4/23/2015 20:59:00 | 41.67 | 39.57 | 867 | 0.22 | 0.33 | 47.4 |
| 4/23/2015 20:59:00 | 41.99 | 39.89 | 859 | 0.22 | 0.32 | 47.0 |
| 4/23/2015 20:59:01 | 42.32 | 40.22 | 867 | 0.22 | 0.33 | 47.4 |
| 4/23/2015 20:59:01 | 42.65 | 40.55 | 856 | 0.21 | 0.33 | 46.8 |
| 4/23/2015 20:59:02 | 42.98 | 40.88 | 851 | 0.21 | 0.33 | 46.5 |
| 4/23/2015 20:59:02 | 43.31 | 41.21 | 851 | 0.21 | 0.33 | 46.5 |
| 4/23/2015 20:59:02 | 43.64 | 41.54 | 848 | 0.22 | 0.32 | 46.4 |
| 4/23/2015 20:59:03 | 43.96 | 41.86 | 861 | 0.21 | 0.33 | 47.1 |
| 4/23/2015 20:59:03 | 44.29 | 42.19 | 856 | 0.22 | 0.32 | 46.8 |
| 4/23/2015 20:59:04 | 44.62 | 42.52 | 856 | 0.22 | 0.32 | 46.8 |
| 4/23/2015 20:59:04 | 44.95 | 42.85 | 864 | 0.21 | 0.32 | 47.3 |
| 4/23/2015 20:59:04 | 45.28 | 43.18 | 873 | 0.21 | 0.33 | 47.7 |
| 4/23/2015 20:59:05 | 45.60 | 43.50 | 881 | 0.21 | 0.32 | 48.2 |
| 4/23/2015 20:59:06 | 45.93 | 43.83 | 876 | 0.21 | 0.33 | 47.9 |
| 4/23/2015 20:59:06 | 46.26 | 44.16 | 876 | 0.21 | 0.33 | 47.9 |
| 4/23/2015 20:59:06 | 46.59 | 44.49 | 870 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 20:59:07 | 46.92 | 44.82 | 864 | 0.21 | 0.32 | 47.3 |
| 4/23/2015 20:59:07 | 47.24 | 45.14 | 864 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 20:59:08 | 47.57 | 45.47 | 864 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 20:59:08 | 47.90 | 45.80 | 864 | 0.21 | 0.33 | 47.3 |
| 4/23/2015 20:59:08 | 48.23 | 46.13 | 867 | 0.21 | 0.33 | 47.4 |
| 4/23/2015 20:59:09 | 48.56 | 46.46 | 870 | 0.21 | 0.33 | 47.6 |
| 4/23/2015 20:59:09 | 48.88 | 46.78 | 879 | 0.21 | 0.33 | 48.1 |
| 4/23/2015 20:59:10 | 49.21 | 47.11 | 879 | 0.21 | 0.33 | 48.1 |
| 4/23/2015 20:59:10 | 49.54 | 47.44 | 876 | 0.21 | 0.33 | 47.9 |
| 4/23/2015 20:59:10 | 49.87 | 47.77 | 876 | 0.21 | 0.32 | 47.9 |
| 4/23/2015 20:59:11 | 50.20 | 48.10 | 876 | 0.21 | 0.32 | 47.9 |
| 4/23/2015 20:59:11 | 50.53 | 48.43 | 879 | 0.20 | 0.36 | 48.1 |
| 4/23/2015 20:59:41 | 50.85 | 48.75 | 6 | 3.48 | 0.36 | 0.3 |
| 4/23/2015 20:59:42 | 51.18 | 49.08 | 169 | 3.86 | 0.38 | 9.2 |
| 4/23/2015 20:59:48 | 51.51 | 49.41 | 8 | 3.79 | 0.28 | 0.5 |
| 4/23/2015 20:59:52 | 51.84 | 49.74 | 102 | 6.53 | 0.41 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 20:59:57 | 52.17 | 50.07 | 124 | 4.49 | 0.39 | 6.8 |
| 4/23/2015 | 20:59:59 | 52.49 | 50.39 | 133 | 4.29 | 0.37 | 7.3 |
| 4/23/2015 | 21:00:00 | 52.82 | 50.72 | 226 | 5.25 | 0.38 | 12.4 |
| 4/23/2015 | 21:00:05 | 53.15 | 51.05 | 65 | 3.10 | 0.36 | 3.6 |
| 4/23/2015 | 21:00:06 | 53.48 | 51.38 | 141 | 3.19 | 0.36 | 7.7 |
| 4/23/2015 | 21:00:07 | 53.81 | 51.71 | 350 | 4.53 | 0.37 | 19.2 |
| 4/23/2015 | 21:00:08 | 54.13 | 52.03 | 415 | 5.03 | 0.40 | 22.7 |
| 4/23/2015 | 21:00:09 | 54.46 | 52.36 | 404 | 3.69 | 0.37 | 22.1 |
| 4/23/2015 | 21:00:12 | 54.79 | 52.69 | 227 | 4.93 | 0.38 | 12.4 |
| 4/23/2015 | 21:00:40 | 55.12 | 53.02 | 14 | 4.96 | 0.40 | 0.8 |
| 4/23/2015 | 21:00:51 | 55.45 | 53.35 | 6 | 4.45 | 0.38 | 0.3 |
| 4/23/2015 | 21:00:53 | 55.77 | 53.67 | 179 | 3.86 | 0.38 | 9.8 |
| 4/23/2015 | 21:00:54 | 56.10 | 54.00 | 304 | 4.17 | 0.38 | 16.6 |
| 4/23/2015 | 21:00:55 | 56.43 | 54.33 | 317 | 3.55 | 0.37 | 17.3 |
| 4/23/2015 | 21:00:56 | 56.76 | 54.66 | 324 | 3.51 | 0.37 | 17.7 |
| 4/23/2015 | 21:00:56 | 57.09 | 54.99 | 335 | 3.27 | 0.36 | 18.3 |
| 4/23/2015 | 21:00:57 | 57.35 | 55.25 | 370 | 2.96 | 0.36 | 20.3 |

## H247 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:55:34

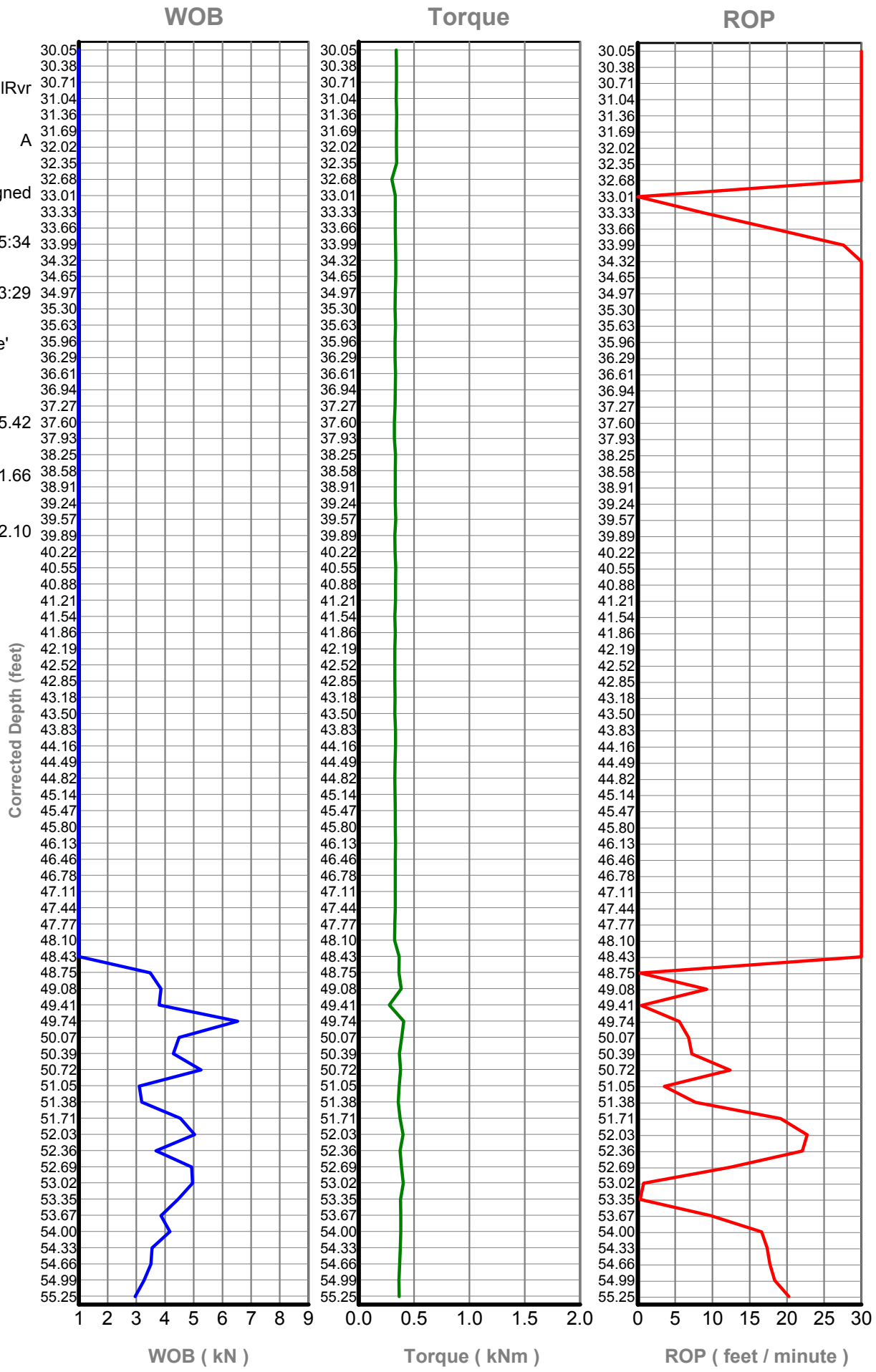
**End Date:**
4/23/2015 21:03:29

**Operator Note:**
'2.1 2.2 b Auto Complete'

**Northing:**
367,145.42

**Easting:**
251,521.66

**Tide (feet):**
2.10



## Hole: H248 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 21:00:49 | 32.15 | 30.15 | 584 | 2.02 | 0.17 | 31.9 |
| 4/23/2015 21:00:50 | 32.48 | 30.48 | 581 | 2.01 | 0.17 | 31.8 |
| 4/23/2015 21:00:50 | 32.81 | 30.81 | 578 | 2.02 | 0.17 | 31.6 |
| 4/23/2015 21:00:51 | 33.14 | 31.14 | 584 | 1.99 | 0.17 | 31.9 |
| 4/23/2015 21:00:51 | 33.46 | 31.46 | 584 | 2.02 | 0.17 | 31.9 |
| 4/23/2015 21:00:52 | 33.79 | 31.79 | 584 | 2.01 | 0.17 | 31.9 |
| 4/23/2015 21:00:53 | 34.12 | 32.12 | 591 | 2.08 | 0.17 | 32.3 |
| 4/23/2015 21:00:54 | 34.45 | 32.45 | 585 | 2.02 | 0.17 | 32.0 |
| 4/23/2015 21:00:54 | 34.78 | 32.78 | 582 | 2.02 | 0.17 | 31.8 |
| 4/23/2015 21:00:55 | 35.11 | 33.11 | 582 | 2.02 | 0.17 | 31.8 |
| 4/23/2015 21:00:55 | 35.43 | 33.43 | 588 | 2.04 | 0.17 | 32.1 |
| 4/23/2015 21:00:56 | 35.76 | 33.76 | 581 | 2.02 | 0.17 | 31.8 |
| 4/23/2015 21:00:57 | 36.09 | 34.09 | 577 | 2.04 | 0.17 | 31.6 |
| 4/23/2015 21:00:57 | 36.42 | 34.42 | 584 | 2.04 | 0.17 | 31.9 |
| 4/23/2015 21:00:58 | 36.75 | 34.75 | 581 | 2.03 | 0.17 | 31.8 |
| 4/23/2015 21:00:58 | 37.07 | 35.07 | 585 | 2.02 | 0.17 | 32.0 |
| 4/23/2015 21:00:59 | 37.40 | 35.40 | 584 | 2.02 | 0.17 | 31.9 |
| 4/23/2015 21:01:00 | 37.73 | 35.73 | 584 | 2.04 | 0.17 | 31.9 |
| 4/23/2015 21:01:00 | 38.06 | 36.06 | 584 | 2.04 | 0.17 | 31.9 |
| 4/23/2015 21:01:01 | 38.39 | 36.39 | 580 | 2.04 | 0.17 | 31.7 |
| 4/23/2015 21:01:01 | 38.71 | 36.71 | 587 | 2.00 | 0.17 | 32.1 |
| 4/23/2015 21:01:02 | 39.04 | 37.04 | 587 | 2.02 | 0.17 | 32.1 |
| 4/23/2015 21:01:03 | 39.37 | 37.37 | 584 | 2.03 | 0.17 | 31.9 |
| 4/23/2015 21:01:04 | 39.70 | 37.70 | 588 | 2.02 | 0.17 | 32.1 |
| 4/23/2015 21:01:04 | 40.03 | 38.03 | 581 | 2.03 | 0.17 | 31.8 |
| 4/23/2015 21:01:05 | 40.35 | 38.35 | 584 | 1.95 | 0.17 | 31.9 |
| 4/23/2015 21:01:05 | 40.68 | 38.68 | 581 | 2.02 | 0.17 | 31.8 |
| 4/23/2015 21:01:07 | 41.01 | 39.01 | 254 | 2.00 | 0.17 | 13.9 |
| 4/23/2015 21:01:08 | 41.34 | 39.34 | 260 | 2.02 | 0.17 | 14.2 |
| 4/23/2015 21:01:08 | 41.67 | 39.67 | 252 | 2.04 | 0.17 | 13.8 |
| 4/23/2015 21:01:09 | 41.99 | 39.99 | 484 | 2.00 | 0.17 | 26.5 |
| 4/23/2015 21:01:10 | 42.32 | 40.32 | 581 | 2.03 | 0.17 | 31.8 |
| 4/23/2015 21:01:10 | 42.65 | 40.65 | 581 | 2.02 | 0.17 | 31.8 |
| 4/23/2015 21:01:30 | 42.98 | 40.98 | 8 | 2.00 | 0.17 | 0.5 |
| 4/23/2015 21:01:30 | 43.31 | 41.31 | 117 | 2.02 | 0.17 | 6.4 |
| 4/23/2015 21:01:31 | 43.64 | 41.64 | 237 | 2.01 | 0.17 | 12.9 |
| 4/23/2015 21:01:32 | 43.96 | 41.96 | 339 | 2.04 | 0.17 | 18.5 |
| 4/23/2015 21:01:32 | 44.29 | 42.29 | 339 | 2.00 | 0.17 | 18.5 |
| 4/23/2015 21:01:33 | 44.62 | 42.62 | 455 | 2.01 | 0.17 | 24.9 |
| 4/23/2015 21:01:33 | 44.95 | 42.95 | 455 | 2.02 | 0.17 | 24.9 |
| 4/23/2015 21:01:35 | 45.28 | 43.28 | 570 | 2.02 | 0.17 | 31.2 |
| 4/23/2015 21:01:35 | 45.60 | 43.60 | 570 | 2.01 | 0.17 | 31.2 |
| 4/23/2015 21:01:36 | 45.93 | 43.93 | 563 | 2.02 | 0.18 | 30.8 |
| 4/23/2015 21:01:36 | 46.26 | 44.26 | 563 | 2.03 | 0.17 | 30.8 |
| 4/23/2015 21:01:37 | 46.59 | 44.59 | 576 | 2.03 | 0.17 | 31.5 |
| 4/23/2015 21:01:38 | 46.92 | 44.92 | 567 | 2.04 | 0.17 | 31.0 |
| 4/23/2015 21:01:38 | 47.24 | 45.24 | 570 | 2.02 | 0.17 | 31.2 |
| 4/23/2015 21:01:39 | 47.57 | 45.57 | 570 | 2.03 | 0.17 | 31.2 |
| 4/23/2015 21:01:39 | 47.90 | 45.90 | 571 | 2.03 | 0.17 | 31.2 |
| 4/23/2015 21:01:40 | 48.23 | 46.23 | 571 | 2.02 | 0.17 | 31.2 |
| 4/23/2015 21:01:40 | 48.56 | 46.56 | 581 | 2.03 | 0.17 | 31.8 |
| 4/23/2015 21:01:41 | 48.88 | 46.88 | 568 | 1.99 | 0.17 | 31.1 |
| 4/23/2015 21:01:42 | 49.21 | 47.21 | 575 | 2.01 | 0.17 | 31.4 |
| 4/23/2015 21:01:42 | 49.54 | 47.54 | 575 | 2.00 | 0.17 | 31.4 |
| 4/23/2015 21:01:43 | 49.87 | 47.87 | 581 | 2.04 | 0.17 | 31.8 |
| 4/23/2015 21:01:43 | 50.20 | 48.20 | 574 | 1.98 | 0.17 | 31.4 |
| 4/23/2015 21:01:45 | 50.53 | 48.53 | 578 | 2.02 | 0.17 | 31.6 |
| 4/23/2015 21:01:45 | 50.85 | 48.85 | 578 | 2.01 | 0.17 | 31.6 |
| 4/23/2015 21:01:46 | 51.18 | 49.18 | 576 | 2.04 | 0.17 | 31.5 |
| 4/23/2015 21:01:46 | 51.51 | 49.51 | 576 | 2.02 | 0.17 | 31.5 |
| 4/23/2015 21:02:02 | 51.84 | 49.84 | 0 | 2.02 | 1.23 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 21:02:16 | 52.17 | 50.17 | 83 | 2.00 | 1.37 | 4.5 |
| 4/23/2015 | 21:02:18 | 52.49 | 50.49 | 237 | 2.03 | 1.30 | 12.9 |
| 4/23/2015 | 21:02:28 | 52.82 | 50.82 | 64 | 2.00 | 1.13 | 3.5 |
| 4/23/2015 | 21:02:29 | 53.15 | 51.15 | 171 | 1.98 | 1.18 | 9.3 |
| 4/23/2015 | 21:02:44 | 53.48 | 51.48 | 127 | 2.02 | 1.09 | 7.0 |
| 4/23/2015 | 21:02:59 | 53.81 | 51.81 | 49 | 1.97 | 1.39 | 2.7 |
| 4/23/2015 | 21:03:01 | 54.13 | 52.13 | 207 | 1.98 | 1.51 | 11.3 |
| 4/23/2015 | 21:03:10 | 54.46 | 52.46 | 0 | 2.04 | 1.05 | 0.0 |
| 4/23/2015 | 21:03:11 | 54.79 | 52.79 | 71 | 1.97 | 1.15 | 3.9 |
| 4/23/2015 | 21:03:13 | 55.12 | 53.12 | 218 | 2.01 | 1.13 | 11.9 |
| 4/23/2015 | 21:03:48 | 55.45 | 53.45 | 18 | 1.97 | 1.17 | 1.0 |
| 4/23/2015 | 21:03:58 | 55.77 | 53.77 | 112 | 2.02 | 1.27 | 6.1 |
| 4/23/2015 | 21:04:07 | 56.10 | 54.10 | 41 | 2.01 | 1.23 | 2.3 |
| 4/23/2015 | 21:04:09 | 56.43 | 54.43 | 163 | 2.02 | 1.15 | 8.9 |
| 4/23/2015 | 21:04:11 | 56.76 | 54.76 | 252 | 2.02 | 1.34 | 13.8 |
| 4/23/2015 | 21:04:25 | 57.09 | 55.09 | 37 | 2.06 | 1.39 | 2.0 |
| 4/23/2015 | 21:04:26 | 57.32 | 55.32 | 141 | 1.83 | 1.16 | 7.7 |

## H248 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:58:59

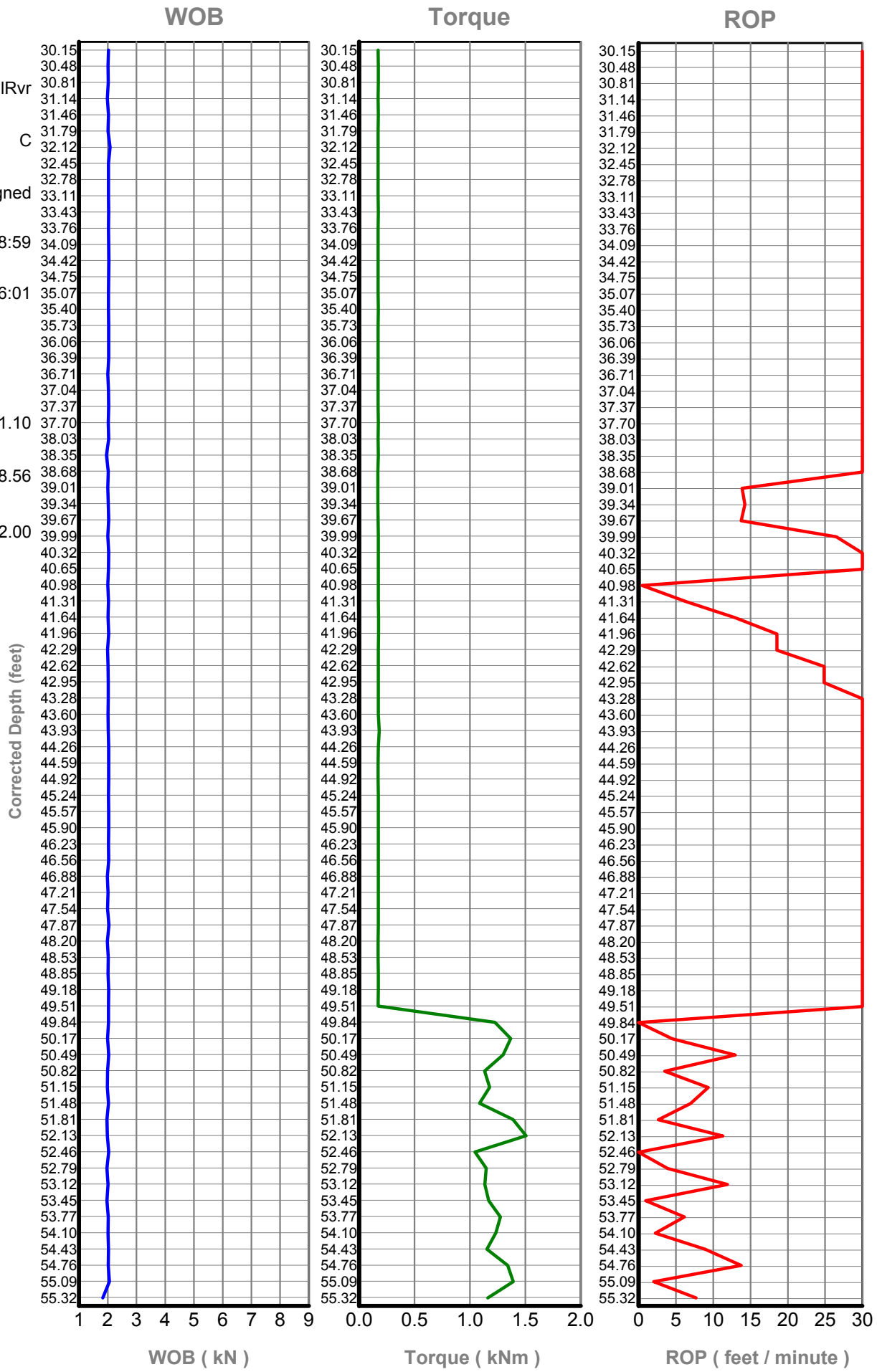
**End Date:**
4/23/2015 21:06:01

**Operator Note:**
'2 2.2 c Auto Complete'

**Northing:**
367,181.10

**Easting:**
251,568.56

**Tide (feet):**
2.00



## Hole: H249 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:52:52 | 32.48 | 30.28 | 615 | 2.06 | 0.18 | 33.6 |
| 4/23/2015 20:52:53 | 32.81 | 30.61 | 607 | 2.03 | 0.18 | 33.2 |
| 4/23/2015 20:52:54 | 33.14 | 30.94 | 607 | 2.03 | 0.18 | 33.2 |
| 4/23/2015 20:52:54 | 33.46 | 31.26 | 611 | 2.04 | 0.17 | 33.4 |
| 4/23/2015 20:52:55 | 33.79 | 31.59 | 607 | 2.04 | 0.18 | 33.2 |
| 4/23/2015 20:52:56 | 34.12 | 31.92 | 604 | 2.02 | 0.18 | 33.0 |
| 4/23/2015 20:52:56 | 34.45 | 32.25 | 607 | 2.02 | 0.18 | 33.2 |
| 4/23/2015 20:52:57 | 34.78 | 32.58 | 604 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:52:57 | 35.11 | 32.91 | 607 | 2.02 | 0.17 | 33.2 |
| 4/23/2015 20:52:58 | 35.43 | 33.23 | 604 | 2.03 | 0.17 | 33.0 |
| 4/23/2015 20:52:58 | 35.76 | 33.56 | 611 | 2.04 | 0.18 | 33.4 |
| 4/23/2015 20:52:59 | 36.09 | 33.89 | 607 | 2.03 | 0.18 | 33.2 |
| 4/23/2015 20:53:00 | 36.42 | 34.22 | 600 | 2.04 | 0.18 | 32.8 |
| 4/23/2015 20:53:00 | 36.75 | 34.55 | 608 | 2.03 | 0.18 | 33.2 |
| 4/23/2015 20:53:01 | 37.07 | 34.87 | 608 | 2.02 | 0.18 | 33.2 |
| 4/23/2015 20:53:01 | 37.40 | 35.20 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 20:53:02 | 37.73 | 35.53 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 20:53:03 | 38.06 | 35.86 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 20:53:03 | 38.39 | 36.19 | 603 | 2.02 | 0.18 | 33.0 |
| 4/23/2015 20:53:03 | 38.71 | 36.51 | 603 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:53:05 | 39.04 | 36.84 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 20:53:06 | 39.37 | 37.17 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 20:53:06 | 39.70 | 37.50 | 609 | 2.04 | 0.17 | 33.3 |
| 4/23/2015 20:53:06 | 40.03 | 37.83 | 602 | 2.04 | 0.18 | 32.9 |
| 4/23/2015 20:53:07 | 40.35 | 38.15 | 614 | 2.04 | 0.18 | 33.6 |
| 4/23/2015 20:53:07 | 40.68 | 38.48 | 590 | 2.05 | 0.18 | 32.2 |
| 4/23/2015 20:53:08 | 41.01 | 38.81 | 603 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:53:08 | 41.34 | 39.14 | 603 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:53:09 | 41.67 | 39.47 | 607 | 2.03 | 0.18 | 33.2 |
| 4/23/2015 20:53:10 | 41.99 | 39.79 | 612 | 2.05 | 0.18 | 33.5 |
| 4/23/2015 20:53:10 | 42.32 | 40.12 | 612 | 2.03 | 0.18 | 33.5 |
| 4/23/2015 20:53:11 | 42.65 | 40.45 | 615 | 2.04 | 0.18 | 33.6 |
| 4/23/2015 20:53:11 | 42.98 | 40.78 | 597 | 2.02 | 0.18 | 32.7 |
| 4/23/2015 20:53:12 | 43.31 | 41.11 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 20:53:12 | 43.64 | 41.44 | 591 | 2.04 | 0.18 | 32.3 |
| 4/23/2015 20:53:14 | 43.96 | 41.76 | 586 | 2.04 | 0.18 | 32.1 |
| 4/23/2015 20:53:14 | 44.29 | 42.09 | 600 | 2.02 | 0.18 | 32.8 |
| 4/23/2015 20:53:15 | 44.62 | 42.42 | 602 | 2.04 | 0.18 | 32.9 |
| 4/23/2015 20:53:15 | 44.95 | 42.75 | 615 | 2.04 | 0.18 | 33.6 |
| 4/23/2015 20:53:16 | 45.28 | 43.08 | 615 | 2.04 | 0.18 | 33.6 |
| 4/23/2015 20:53:16 | 45.60 | 43.40 | 616 | 2.03 | 0.18 | 33.7 |
| 4/23/2015 20:53:17 | 45.93 | 43.73 | 612 | 2.04 | 0.18 | 33.5 |
| 4/23/2015 20:53:17 | 46.26 | 44.06 | 611 | 2.04 | 0.18 | 33.4 |
| 4/23/2015 20:53:18 | 46.59 | 44.39 | 605 | 2.03 | 0.18 | 33.1 |
| 4/23/2015 20:53:19 | 46.92 | 44.72 | 604 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:53:19 | 47.24 | 45.04 | 607 | 2.04 | 0.18 | 33.2 |
| 4/23/2015 20:53:20 | 47.57 | 45.37 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 20:53:20 | 47.90 | 45.70 | 601 | 2.02 | 0.18 | 32.9 |
| 4/23/2015 20:53:21 | 48.23 | 46.03 | 601 | 2.03 | 0.17 | 32.8 |
| 4/23/2015 20:53:21 | 48.56 | 46.36 | 604 | 2.04 | 0.18 | 33.0 |
| 4/23/2015 20:53:22 | 48.88 | 46.68 | 605 | 2.03 | 0.18 | 33.1 |
| 4/23/2015 20:53:23 | 49.21 | 47.01 | 604 | 2.04 | 0.17 | 33.0 |
| 4/23/2015 20:53:23 | 49.54 | 47.34 | 604 | 2.04 | 0.17 | 33.0 |
| 4/23/2015 20:53:24 | 49.87 | 47.67 | 600 | 1.96 | 0.17 | 32.8 |
| 4/23/2015 20:53:25 | 50.20 | 48.00 | 601 | 2.03 | 0.18 | 32.9 |
| 4/23/2015 20:53:25 | 50.53 | 48.33 | 598 | 2.03 | 0.17 | 32.7 |
| 4/23/2015 20:53:26 | 50.85 | 48.65 | 601 | 2.04 | 0.18 | 32.9 |
| 4/23/2015 20:53:27 | 51.18 | 48.98 | 599 | 2.04 | 0.18 | 32.8 |
| 4/23/2015 20:53:27 | 51.51 | 49.31 | 592 | 2.03 | 0.18 | 32.3 |
| 4/23/2015 20:53:28 | 51.84 | 49.64 | 602 | 2.02 | 0.18 | 32.9 |
| 4/23/2015 20:53:28 | 52.17 | 49.97 | 599 | 2.04 | 0.18 | 32.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 20:53:29 | 52.49 | 50.29 | 599 | 2.02 | 0.18 | 32.8 |
| 4/23/2015 | 20:53:29 | 52.82 | 50.62 | 598 | 2.02 | 0.18 | 32.7 |
| 4/23/2015 | 20:53:30 | 53.15 | 50.95 | 609 | 2.06 | 0.18 | 33.3 |
| 4/23/2015 | 20:53:31 | 53.48 | 51.28 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 | 20:53:31 | 53.81 | 51.61 | 601 | 2.03 | 0.18 | 32.9 |
| 4/23/2015 | 20:53:32 | 54.13 | 51.93 | 598 | 2.04 | 0.18 | 32.7 |
| 4/23/2015 | 20:53:46 | 54.46 | 52.26 | 3 | 2.06 | 1.27 | 0.2 |
| 4/23/2015 | 20:54:00 | 54.79 | 52.59 | 115 | 2.04 | 1.30 | 6.3 |
| 4/23/2015 | 20:54:01 | 55.12 | 52.92 | 224 | 2.05 | 1.44 | 12.2 |
| 4/23/2015 | 20:54:02 | 55.45 | 53.25 | 257 | 2.02 | 1.24 | 14.0 |
| 4/23/2015 | 20:54:11 | 55.77 | 53.57 | 29 | 2.05 | 1.27 | 1.6 |
| 4/23/2015 | 20:54:12 | 56.10 | 53.90 | 85 | 2.04 | 1.14 | 4.6 |
| 4/23/2015 | 20:54:13 | 56.43 | 54.23 | 147 | 2.01 | 1.19 | 8.0 |
| 4/23/2015 | 20:54:31 | 56.76 | 54.56 | 0 | 2.01 | 1.34 | 0.0 |
| 4/23/2015 | 20:54:32 | 57.09 | 54.89 | 99 | 2.06 | 1.19 | 5.4 |
| 4/23/2015 | 20:54:34 | 57.41 | 55.21 | 294 | 1.66 | 1.13 | 16.1 |
| 4/23/2015 | 20:54:34 | 57.47 | 55.27 | 294 | 1.66 | 1.13 | 16.1 |

## H249 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:50:54

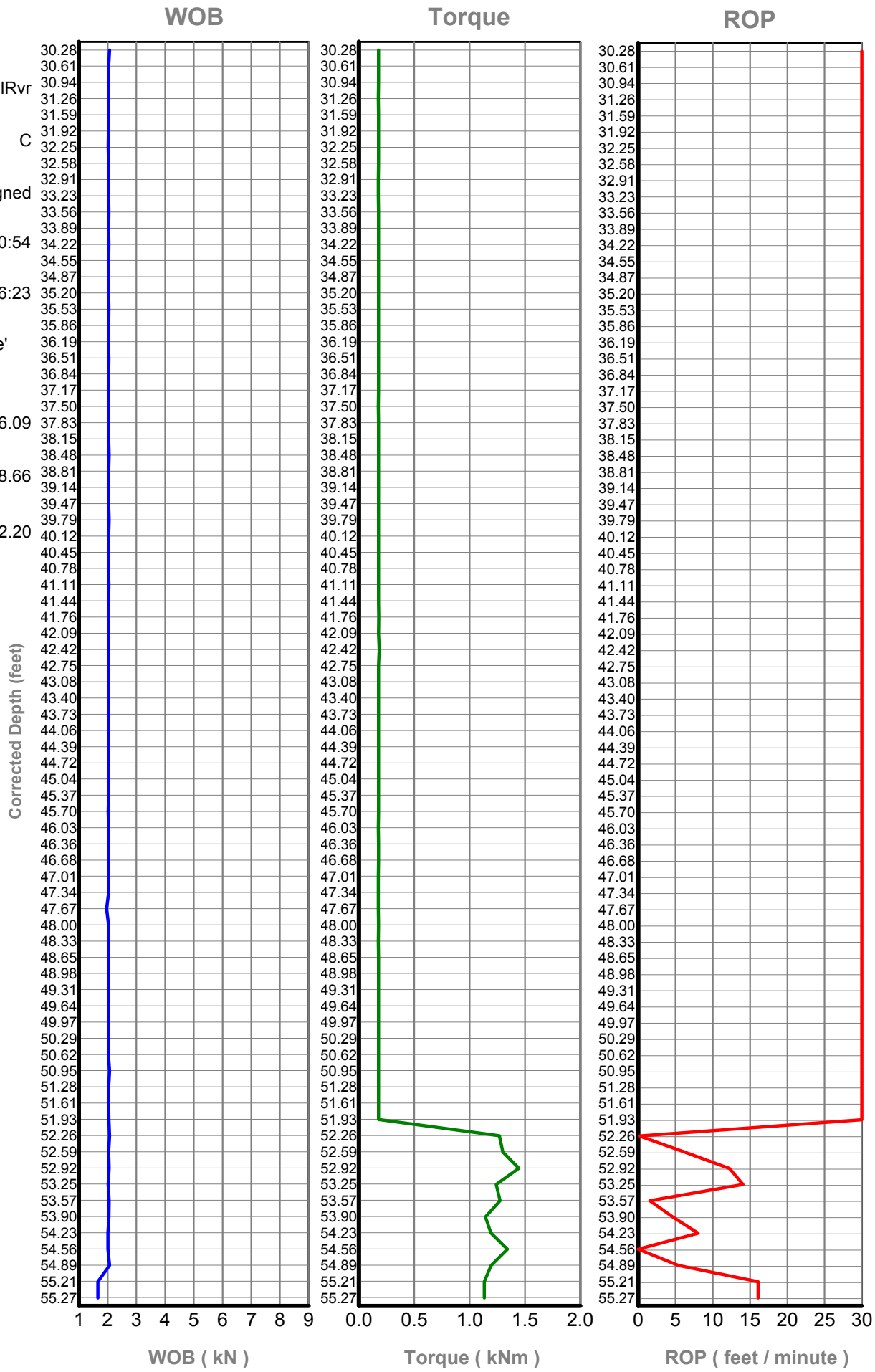
**End Date:**
4/23/2015 20:56:23

**Operator Note:**
'2.2 2.4 c Auto Complete'

**Northing:**
367,226.09

**Easting:**
251,628.66

**Tide (feet):**
2.20



## Hole: H25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 11:41:26 | 31.82 | 30.12 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/25/2015 11:41:27 | 32.15 | 30.45 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/25/2015 11:41:27 | 32.48 | 30.78 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 11:41:27 | 32.81 | 31.11 | 1,034 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 11:41:28 | 33.14 | 31.44 | 1,034 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 11:41:28 | 33.46 | 31.76 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 11:41:28 | 33.79 | 32.09 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 11:41:29 | 34.12 | 32.42 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 11:41:29 | 34.45 | 32.75 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 11:41:29 | 34.78 | 33.08 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 11:41:30 | 35.11 | 33.41 | 1,049 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 11:41:30 | 35.43 | 33.73 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 11:41:30 | 35.76 | 34.06 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 11:41:31 | 36.09 | 34.39 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 11:41:31 | 36.42 | 34.72 | 1,027 | 0.31 | 0.31 | 56.1 |
| 4/25/2015 11:41:31 | 36.75 | 35.05 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 11:41:32 | 37.07 | 35.37 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 11:41:32 | 37.40 | 35.70 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 11:41:32 | 37.73 | 36.03 | 1,002 | 0.31 | 0.26 | 54.8 |
| 4/25/2015 11:41:33 | 38.06 | 36.36 | 1,002 | 0.31 | 0.26 | 54.8 |
| 4/25/2015 11:41:33 | 38.39 | 36.69 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 11:41:33 | 38.71 | 37.01 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 11:41:34 | 39.04 | 37.34 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 11:41:34 | 39.37 | 37.67 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 11:41:35 | 39.70 | 38.00 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 11:41:35 | 40.03 | 38.33 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 11:41:35 | 40.35 | 38.65 | 1,054 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 11:41:36 | 40.68 | 38.98 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/25/2015 11:41:36 | 41.01 | 39.31 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/25/2015 11:41:36 | 41.34 | 39.64 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 11:41:51 | 41.67 | 39.97 | 29 | 4.21 | 0.38 | 1.6 |
| 4/25/2015 11:41:54 | 41.99 | 40.29 | 148 | 4.95 | 0.39 | 8.1 |
| 4/25/2015 11:42:03 | 42.32 | 40.62 | 34 | 4.20 | 0.37 | 1.9 |
| 4/25/2015 11:42:08 | 42.65 | 40.95 | 75 | 4.38 | 0.38 | 4.1 |
| 4/25/2015 11:42:10 | 42.98 | 41.28 | 112 | 3.17 | 0.36 | 6.1 |
| 4/25/2015 11:42:16 | 43.31 | 41.61 | 72 | 3.05 | 0.37 | 3.9 |
| 4/25/2015 11:42:21 | 43.64 | 41.94 | 9 | 3.15 | 0.36 | 0.5 |
| 4/25/2015 11:42:33 | 43.96 | 42.26 | 58 | 2.52 | 0.36 | 3.2 |
| 4/25/2015 11:42:33 | 44.29 | 42.59 | 146 | 2.11 | 0.35 | 8.0 |
| 4/25/2015 11:42:35 | 44.62 | 42.92 | 346 | 3.97 | 0.36 | 18.9 |
| 4/25/2015 11:43:13 | 44.95 | 43.25 | 37 | 4.94 | 0.37 | 2.0 |
| 4/25/2015 11:43:14 | 45.28 | 43.58 | 185 | 2.33 | 0.36 | 10.1 |
| 4/25/2015 11:43:17 | 45.60 | 43.90 | 94 | 2.55 | 0.37 | 5.1 |
| 4/25/2015 11:43:19 | 45.93 | 44.23 | 258 | 2.62 | 0.38 | 14.1 |
| 4/25/2015 11:43:20 | 46.26 | 44.56 | 221 | 2.82 | 0.38 | 12.1 |
| 4/25/2015 11:43:27 | 46.59 | 44.89 | 0 | 2.86 | 0.38 | 0.0 |
| 4/25/2015 11:43:36 | 46.92 | 45.22 | 3 | 2.70 | 0.38 | 0.2 |
| 4/25/2015 11:43:41 | 47.24 | 45.54 | 84 | 2.63 | 0.39 | 4.6 |
| 4/25/2015 11:43:44 | 47.57 | 45.87 | 110 | 2.77 | 0.38 | 6.0 |
| 4/25/2015 11:43:46 | 47.90 | 46.20 | 165 | 2.63 | 0.39 | 9.0 |
| 4/25/2015 11:44:05 | 48.23 | 46.53 | 0 | 3.09 | 0.38 | 0.0 |
| 4/25/2015 11:44:10 | 48.56 | 46.86 | 86 | 3.22 | 0.37 | 4.7 |
| 4/25/2015 11:44:15 | 48.88 | 47.18 | 90 | 2.31 | 0.37 | 4.9 |
| 4/25/2015 11:44:17 | 49.21 | 47.51 | 126 | 2.33 | 0.37 | 6.9 |
| 4/25/2015 11:44:19 | 49.54 | 47.84 | 120 | 2.52 | 0.38 | 6.6 |
| 4/25/2015 11:44:22 | 49.87 | 48.17 | 147 | 2.48 | 0.38 | 8.0 |
| 4/25/2015 11:44:26 | 50.20 | 48.50 | 49 | 3.96 | 0.36 | 2.7 |
| 4/25/2015 11:44:28 | 50.53 | 48.83 | 143 | 4.98 | 0.40 | 7.8 |
| 4/25/2015 11:44:30 | 50.85 | 49.15 | 169 | 3.24 | 0.38 | 9.2 |
| 4/25/2015 11:44:31 | 51.18 | 49.48 | 277 | 2.65 | 0.36 | 15.1 |
| 4/25/2015 11:44:32 | 51.51 | 49.81 | 348 | 2.99 | 0.37 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 11:45:17 | 51.84 | 50.14 | 29 | 2.99 | 0.37 | 1.6 |
| 4/25/2015 | 11:45:18 | 52.17 | 50.47 | 145 | 2.61 | 0.37 | 7.9 |
| 4/25/2015 | 11:45:20 | 52.49 | 50.79 | 180 | 3.21 | 0.38 | 9.9 |
| 4/25/2015 | 11:45:24 | 52.82 | 51.12 | 116 | 2.93 | 0.38 | 6.3 |
| 4/25/2015 | 11:45:29 | 53.15 | 51.45 | 61 | 2.80 | 0.38 | 3.3 |
| 4/25/2015 | 11:45:33 | 53.48 | 51.78 | 75 | 2.76 | 0.38 | 4.1 |
| 4/25/2015 | 11:45:38 | 53.81 | 52.11 | 69 | 2.88 | 0.38 | 3.8 |
| 4/25/2015 | 11:45:46 | 54.13 | 52.43 | 6 | 3.46 | 0.39 | 0.3 |
| 4/25/2015 | 11:45:50 | 54.46 | 52.76 | 109 | 3.35 | 0.38 | 6.0 |
| 4/25/2015 | 11:45:55 | 54.79 | 53.09 | 72 | 3.21 | 0.39 | 4.0 |
| 4/25/2015 | 11:45:56 | 54.92 | 53.22 | 69 | 3.31 | 0.39 | 3.8 |

## H25 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 11:39:18

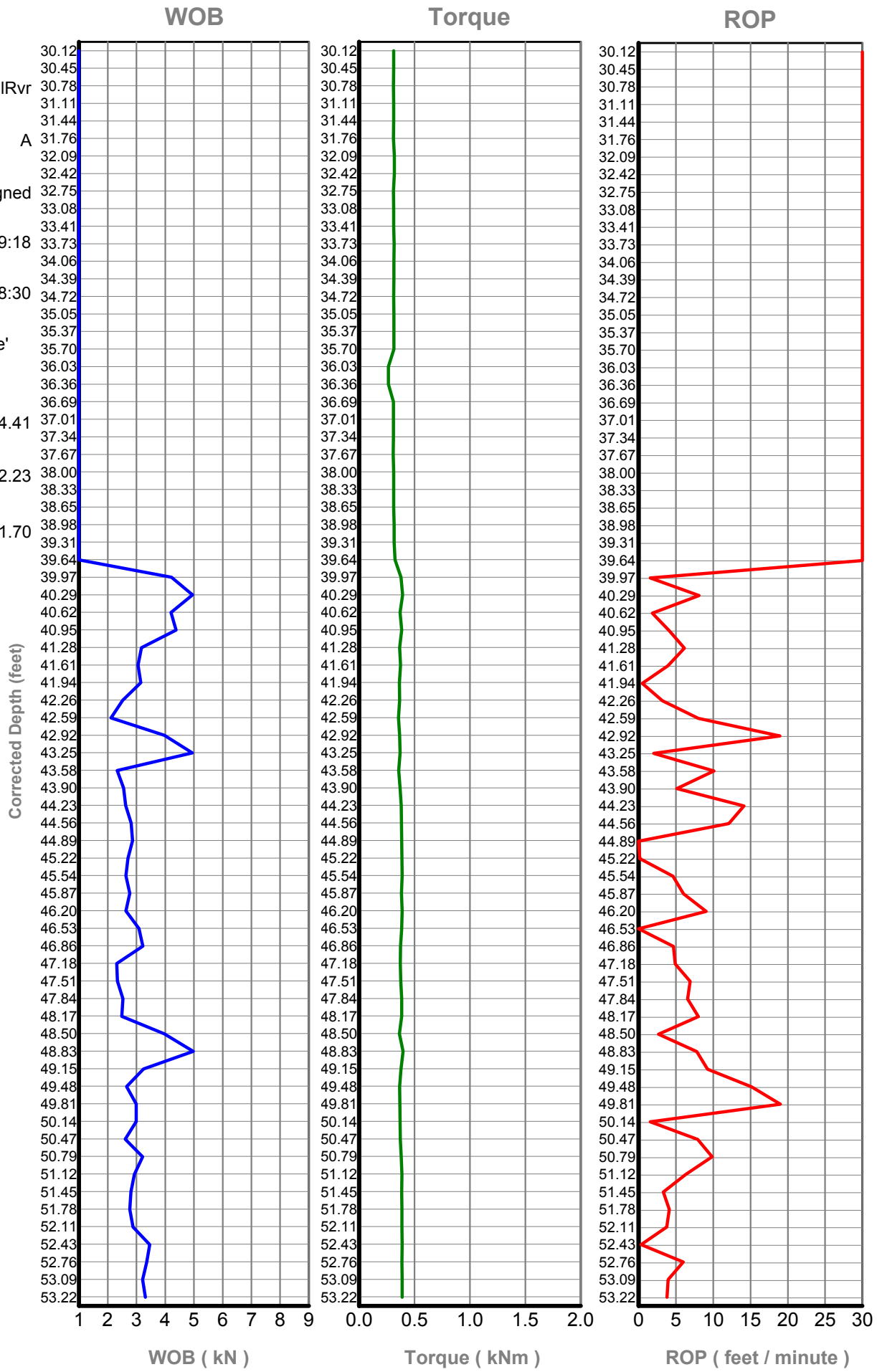
**End Date:**
4/25/2015 11:48:30

**Operator Note:**
'1.7 1.9 b Auto Complete'

**Northing:**
366,734.41

**Easting:**
250,412.23

**Tide (feet):**
1.70



## Hole: H250 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:29:34 | 30.84 | 30.24 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/23/2015 11:29:35 | 31.17 | 30.57 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/23/2015 11:29:35 | 31.50 | 30.90 | 998 | 0.32 | 0.32 | 54.6 |
| 4/23/2015 11:29:35 | 31.82 | 31.22 | 989 | 0.33 | 0.31 | 54.1 |
| 4/23/2015 11:29:36 | 32.15 | 31.55 | 989 | 0.33 | 0.31 | 54.1 |
| 4/23/2015 11:29:36 | 32.48 | 31.88 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:36 | 32.81 | 32.21 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/23/2015 11:29:37 | 33.14 | 32.54 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/23/2015 11:29:37 | 33.46 | 32.86 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:37 | 33.79 | 33.19 | 1,000 | 0.33 | 0.31 | 54.7 |
| 4/23/2015 11:29:38 | 34.12 | 33.52 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/23/2015 11:29:38 | 34.45 | 33.85 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/23/2015 11:29:38 | 34.78 | 34.18 | 997 | 0.33 | 0.32 | 54.5 |
| 4/23/2015 11:29:39 | 35.11 | 34.51 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:39 | 35.43 | 34.83 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:39 | 35.76 | 35.16 | 994 | 0.32 | 0.32 | 54.4 |
| 4/23/2015 11:29:40 | 36.09 | 35.49 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:41 | 36.42 | 35.82 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:41 | 36.75 | 36.15 | 989 | 0.31 | 0.32 | 54.1 |
| 4/23/2015 11:29:41 | 37.07 | 36.47 | 986 | 0.33 | 0.32 | 53.9 |
| 4/23/2015 11:29:42 | 37.40 | 36.80 | 986 | 0.33 | 0.32 | 53.9 |
| 4/23/2015 11:29:42 | 37.73 | 37.13 | 986 | 0.33 | 0.32 | 53.9 |
| 4/23/2015 11:29:42 | 38.06 | 37.46 | 992 | 0.33 | 0.32 | 54.2 |
| 4/23/2015 11:29:43 | 38.39 | 37.79 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:43 | 38.71 | 38.11 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:43 | 39.04 | 38.44 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:44 | 39.37 | 38.77 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/23/2015 11:29:44 | 39.70 | 39.10 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/23/2015 11:29:44 | 40.03 | 39.43 | 1,009 | 0.32 | 0.31 | 55.2 |
| 4/23/2015 11:29:45 | 40.35 | 39.75 | 1,006 | 0.33 | 0.31 | 55.0 |
| 4/23/2015 11:29:45 | 40.68 | 40.08 | 1,006 | 0.33 | 0.31 | 55.0 |
| 4/23/2015 11:29:45 | 41.01 | 40.41 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/23/2015 11:29:46 | 41.34 | 40.74 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:46 | 41.67 | 41.07 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:46 | 41.99 | 41.39 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/23/2015 11:29:47 | 42.32 | 41.72 | 997 | 0.33 | 0.32 | 54.5 |
| 4/23/2015 11:29:47 | 42.65 | 42.05 | 997 | 0.33 | 0.32 | 54.5 |
| 4/23/2015 11:29:47 | 42.98 | 42.38 | 988 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 11:29:48 | 43.31 | 42.71 | 995 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:48 | 43.64 | 43.04 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:49 | 43.96 | 43.36 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:49 | 44.29 | 43.69 | 997 | 0.33 | 0.32 | 54.5 |
| 4/23/2015 11:29:49 | 44.62 | 44.02 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:50 | 44.95 | 44.35 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/23/2015 11:29:50 | 45.28 | 44.68 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/23/2015 11:29:51 | 45.60 | 45.00 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/23/2015 11:29:51 | 45.93 | 45.33 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/23/2015 11:29:51 | 46.26 | 45.66 | 994 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 11:29:52 | 46.59 | 45.99 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 11:29:52 | 46.92 | 46.32 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 11:29:52 | 47.24 | 46.64 | 986 | 0.35 | 0.32 | 53.9 |
| 4/23/2015 11:29:53 | 47.57 | 46.97 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 11:29:53 | 47.90 | 47.30 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 11:29:53 | 48.23 | 47.63 | 986 | 0.33 | 0.31 | 53.9 |
| 4/23/2015 11:29:54 | 48.56 | 47.96 | 991 | 0.33 | 0.32 | 54.2 |
| 4/23/2015 11:29:54 | 48.88 | 48.28 | 988 | 0.33 | 0.32 | 54.0 |
| 4/23/2015 11:29:55 | 49.21 | 48.61 | 988 | 0.33 | 0.32 | 54.0 |
| 4/23/2015 11:29:55 | 49.54 | 48.94 | 997 | 0.33 | 0.32 | 54.5 |
| 4/23/2015 11:29:55 | 49.87 | 49.27 | 989 | 0.39 | 0.32 | 54.1 |
| 4/23/2015 11:29:56 | 50.20 | 49.60 | 989 | 0.39 | 0.32 | 54.1 |
| 4/23/2015 11:29:56 | 50.53 | 49.93 | 998 | 0.33 | 0.32 | 54.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:29:56 | 50.85 | 50.25 | 995 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 | 11:29:57 | 51.18 | 50.58 | 995 | 0.33 | 0.32 | 54.4 |
| 4/23/2015 | 11:29:57 | 51.51 | 50.91 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/23/2015 | 11:29:57 | 51.84 | 51.24 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 | 11:29:58 | 52.17 | 51.57 | 989 | 0.33 | 0.32 | 54.1 |
| 4/23/2015 | 11:29:58 | 52.49 | 51.89 | 998 | 0.33 | 0.32 | 54.6 |
| 4/23/2015 | 11:29:58 | 52.82 | 52.22 | 986 | 0.33 | 0.32 | 53.9 |
| 4/23/2015 | 11:29:59 | 53.15 | 52.55 | 991 | 0.33 | 0.33 | 54.2 |
| 4/23/2015 | 11:29:59 | 53.48 | 52.88 | 991 | 0.33 | 0.33 | 54.2 |
| 4/23/2015 | 11:29:59 | 53.81 | 53.21 | 966 | 0.33 | 0.33 | 52.8 |
| 4/23/2015 | 11:30:00 | 54.13 | 53.53 | 945 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 | 11:30:01 | 54.46 | 53.86 | 913 | 0.33 | 0.33 | 50.0 |
| 4/23/2015 | 11:30:01 | 54.79 | 54.19 | 885 | 0.33 | 0.34 | 48.4 |
| 4/23/2015 | 11:30:02 | 55.12 | 54.52 | 885 | 0.33 | 0.34 | 48.4 |
| 4/23/2015 | 11:30:02 | 55.45 | 54.85 | 856 | 0.33 | 0.33 | 46.8 |
| 4/23/2015 | 11:30:02 | 55.77 | 55.17 | 850 | 0.32 | 0.34 | 46.5 |
| 4/23/2015 | 11:30:02 | 55.98 | 55.38 | 850 | 0.32 | 0.34 | 46.5 |

## H250 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:27:43

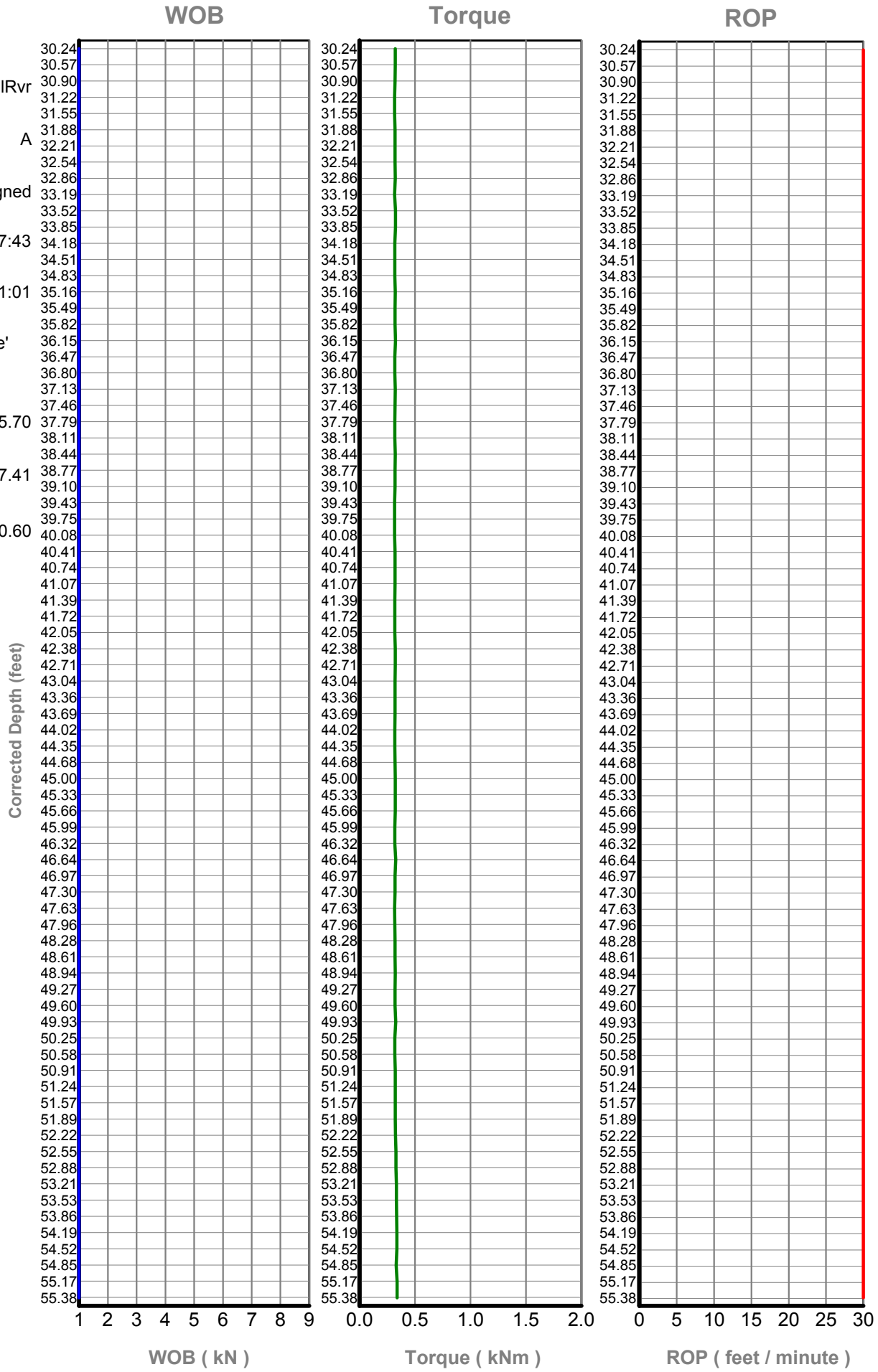
**End Date:**
4/23/2015 11:31:01

**Operator Note:**
'0.6 0.7 b Auto Complete'

**Northing:**
367,285.70

**Easting:**
251,697.41

**Tide (feet):**
0.60



## Hole: H251 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:26:03 | 30.84 | 30.24 | 945 | 0.32 | 0.31 | 51.7 |
| 4/23/2015 11:26:04 | 31.17 | 30.57 | 960 | 0.32 | 0.31 | 52.5 |
| 4/23/2015 11:26:04 | 31.50 | 30.90 | 960 | 0.32 | 0.31 | 52.5 |
| 4/23/2015 11:26:04 | 31.82 | 31.22 | 960 | 0.32 | 0.32 | 52.5 |
| 4/23/2015 11:26:05 | 32.15 | 31.55 | 972 | 0.32 | 0.31 | 53.2 |
| 4/23/2015 11:26:05 | 32.48 | 31.88 | 972 | 0.32 | 0.31 | 53.2 |
| 4/23/2015 11:26:05 | 32.81 | 32.21 | 955 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 11:26:06 | 33.14 | 32.54 | 955 | 0.31 | 0.32 | 52.2 |
| 4/23/2015 11:26:06 | 33.46 | 32.86 | 952 | 0.32 | 0.32 | 52.0 |
| 4/23/2015 11:26:07 | 33.79 | 33.19 | 952 | 0.32 | 0.32 | 52.0 |
| 4/23/2015 11:26:07 | 34.12 | 33.52 | 927 | 0.32 | 0.31 | 50.7 |
| 4/23/2015 11:26:07 | 34.45 | 33.85 | 927 | 0.32 | 0.31 | 50.7 |
| 4/23/2015 11:26:08 | 34.78 | 34.18 | 930 | 0.32 | 0.31 | 50.9 |
| 4/23/2015 11:26:08 | 35.11 | 34.51 | 930 | 0.32 | 0.31 | 50.9 |
| 4/23/2015 11:26:08 | 35.43 | 34.83 | 933 | 0.32 | 0.31 | 51.0 |
| 4/23/2015 11:26:09 | 35.76 | 35.16 | 924 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 11:26:09 | 36.09 | 35.49 | 899 | 0.33 | 0.33 | 49.1 |
| 4/23/2015 11:26:10 | 36.42 | 35.82 | 899 | 0.33 | 0.33 | 49.1 |
| 4/23/2015 11:26:10 | 36.75 | 36.15 | 935 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 11:26:10 | 37.07 | 36.47 | 919 | 0.25 | 0.32 | 50.3 |
| 4/23/2015 11:26:11 | 37.40 | 36.80 | 919 | 0.25 | 0.32 | 50.3 |
| 4/23/2015 11:26:11 | 37.73 | 37.13 | 928 | 0.32 | 0.32 | 50.8 |
| 4/23/2015 11:26:12 | 38.06 | 37.46 | 916 | 0.32 | 0.32 | 50.1 |
| 4/23/2015 11:26:12 | 38.39 | 37.79 | 936 | 0.32 | 0.23 | 51.2 |
| 4/23/2015 11:26:13 | 38.71 | 38.11 | 936 | 0.32 | 0.23 | 51.2 |
| 4/23/2015 11:26:13 | 39.04 | 38.44 | 936 | 0.32 | 0.31 | 51.2 |
| 4/23/2015 11:26:13 | 39.37 | 38.77 | 938 | 0.32 | 0.32 | 51.3 |
| 4/23/2015 11:26:14 | 39.70 | 39.10 | 941 | 0.32 | 0.31 | 51.5 |
| 4/23/2015 11:26:14 | 40.03 | 39.43 | 941 | 0.32 | 0.31 | 51.5 |
| 4/23/2015 11:26:14 | 40.35 | 39.75 | 938 | 0.32 | 0.32 | 51.3 |
| 4/23/2015 11:26:15 | 40.68 | 40.08 | 953 | 0.32 | 0.31 | 52.1 |
| 4/23/2015 11:26:15 | 41.01 | 40.41 | 953 | 0.32 | 0.31 | 52.1 |
| 4/23/2015 11:26:15 | 41.34 | 40.74 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 11:26:16 | 41.67 | 41.07 | 932 | 0.32 | 0.32 | 51.0 |
| 4/23/2015 11:26:16 | 41.99 | 41.39 | 941 | 0.32 | 0.32 | 51.5 |
| 4/23/2015 11:26:17 | 42.32 | 41.72 | 941 | 0.32 | 0.32 | 51.5 |
| 4/23/2015 11:26:17 | 42.65 | 42.05 | 938 | 0.32 | 0.31 | 51.3 |
| 4/23/2015 11:26:17 | 42.98 | 42.38 | 938 | 0.32 | 0.31 | 51.3 |
| 4/23/2015 11:26:18 | 43.31 | 42.71 | 936 | 0.32 | 0.29 | 51.2 |
| 4/23/2015 11:26:18 | 43.64 | 43.04 | 936 | 0.32 | 0.29 | 51.2 |
| 4/23/2015 11:26:18 | 43.96 | 43.36 | 957 | 0.32 | 0.31 | 52.3 |
| 4/23/2015 11:26:19 | 44.29 | 43.69 | 942 | 0.32 | 0.32 | 51.5 |
| 4/23/2015 11:26:19 | 44.62 | 44.02 | 942 | 0.32 | 0.32 | 51.5 |
| 4/23/2015 11:26:19 | 44.95 | 44.35 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 11:26:20 | 45.28 | 44.68 | 948 | 0.33 | 0.33 | 51.9 |
| 4/23/2015 11:26:20 | 45.60 | 45.00 | 948 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 11:26:21 | 45.93 | 45.33 | 948 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 11:26:21 | 46.26 | 45.66 | 945 | 0.32 | 0.32 | 51.7 |
| 4/23/2015 11:26:21 | 46.59 | 45.99 | 942 | 0.31 | 0.32 | 51.5 |
| 4/23/2015 11:26:22 | 46.92 | 46.32 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:26:23 | 47.24 | 46.64 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:26:23 | 47.57 | 46.97 | 940 | 0.31 | 0.31 | 51.4 |
| 4/23/2015 11:26:23 | 47.90 | 47.30 | 940 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 11:26:24 | 48.23 | 47.63 | 940 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 11:26:24 | 48.56 | 47.96 | 940 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 11:26:24 | 48.88 | 48.28 | 943 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 11:26:25 | 49.21 | 48.61 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 11:26:25 | 49.54 | 48.94 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 11:26:25 | 49.87 | 49.27 | 945 | 0.32 | 0.31 | 51.7 |
| 4/23/2015 11:26:26 | 50.20 | 49.60 | 954 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 11:26:26 | 50.53 | 49.93 | 951 | 0.29 | 0.32 | 52.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:26:27 | 50.85 | 50.25 | 951 | 0.29 | 0.32 | 52.0 |
| 4/23/2015 | 11:26:27 | 51.18 | 50.58 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 | 11:26:27 | 51.51 | 50.91 | 945 | 0.32 | 0.32 | 51.7 |
| 4/23/2015 | 11:26:28 | 51.84 | 51.24 | 945 | 0.32 | 0.32 | 51.7 |
| 4/23/2015 | 11:26:28 | 52.17 | 51.57 | 948 | 0.32 | 0.32 | 51.8 |
| 4/23/2015 | 11:26:28 | 52.49 | 51.89 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 | 11:26:29 | 52.82 | 52.22 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 | 11:26:29 | 53.15 | 52.55 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 | 11:26:29 | 53.48 | 52.88 | 940 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 | 11:26:30 | 53.81 | 53.21 | 937 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 | 11:26:30 | 54.13 | 53.53 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 | 11:26:31 | 54.46 | 53.86 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 | 11:26:31 | 54.79 | 54.19 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 | 11:26:31 | 55.12 | 54.52 | 917 | 0.31 | 0.34 | 50.1 |
| 4/23/2015 | 11:26:32 | 55.45 | 54.85 | 878 | 0.32 | 0.34 | 48.0 |
| 4/23/2015 | 11:26:33 | 55.77 | 55.17 | 832 | 0.31 | 0.35 | 45.5 |
| 4/23/2015 | 11:26:33 | 56.10 | 55.50 | 774 | 0.31 | 0.36 | 42.3 |
| 4/23/2015 | 11:26:34 | 56.35 | 55.75 | 515 | 0.36 | 0.37 | 28.2 |

## H251 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:24:16

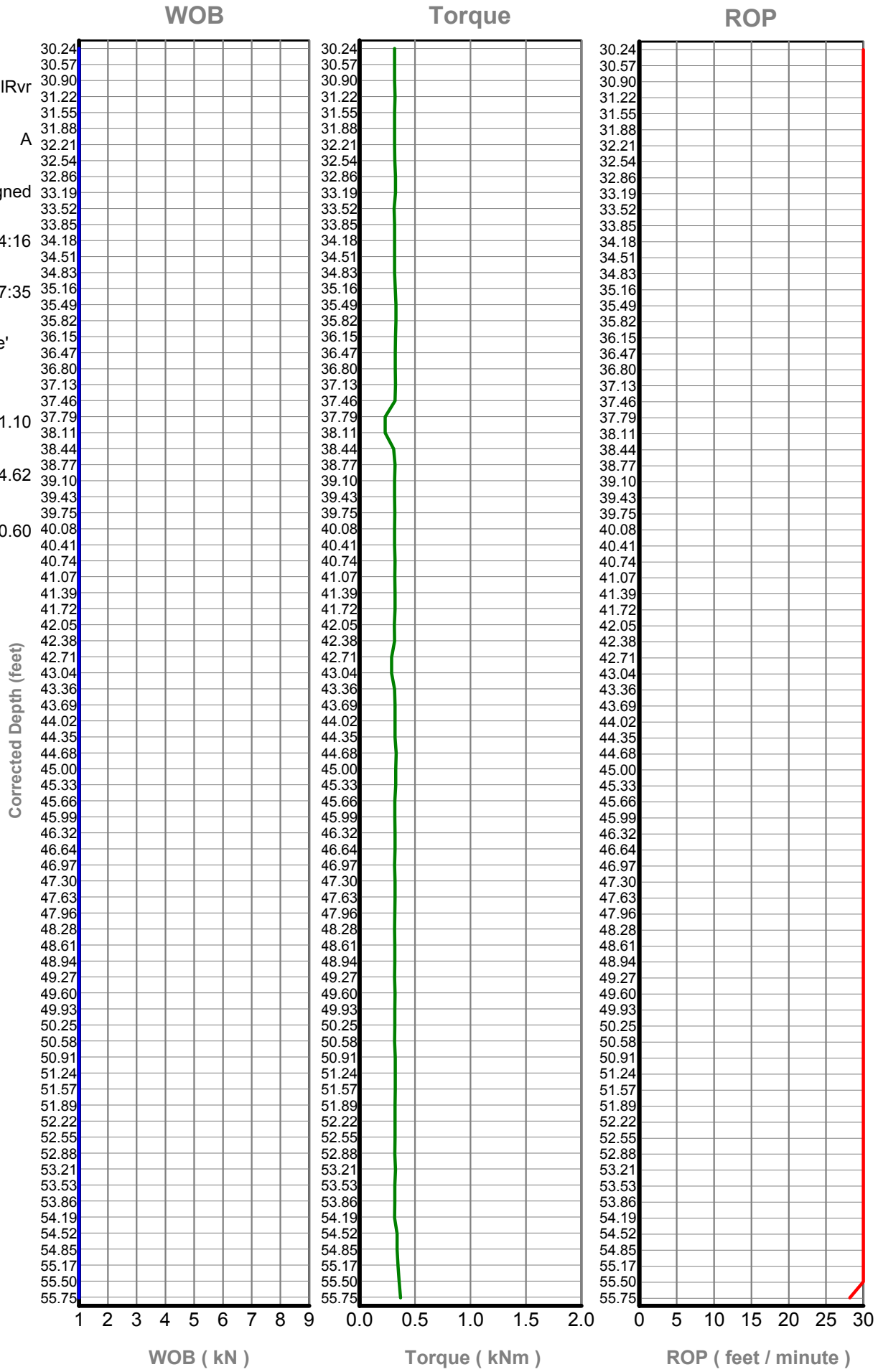
**End Date:**
4/23/2015 11:27:35

**Operator Note:**
'0.6 0.7 b Auto Complete'

**Northing:**
367,321.10

**Easting:**
251,744.62

**Tide (feet):**
0.60



## Hole: H252 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:28:35 | 30.84 | 30.24 | 399 | 1.59 | 0.30 | 21.8 |
| 4/23/2015 11:28:36 | 31.17 | 30.57 | 398 | 1.59 | 0.30 | 21.8 |
| 4/23/2015 11:28:37 | 31.50 | 30.90 | 388 | 1.60 | 0.30 | 21.2 |
| 4/23/2015 11:28:39 | 31.82 | 31.22 | 389 | 1.58 | 0.30 | 21.3 |
| 4/23/2015 11:28:39 | 32.15 | 31.55 | 374 | 1.58 | 0.30 | 20.4 |
| 4/23/2015 11:28:40 | 32.48 | 31.88 | 386 | 1.59 | 0.30 | 21.1 |
| 4/23/2015 11:28:41 | 32.81 | 32.21 | 378 | 1.58 | 0.30 | 20.7 |
| 4/23/2015 11:28:42 | 33.14 | 32.54 | 386 | 1.61 | 0.30 | 21.1 |
| 4/23/2015 11:28:43 | 33.46 | 32.86 | 382 | 1.60 | 0.30 | 20.9 |
| 4/23/2015 11:28:44 | 33.79 | 33.19 | 378 | 1.59 | 0.30 | 20.7 |
| 4/23/2015 11:28:45 | 34.12 | 33.52 | 394 | 1.59 | 0.30 | 21.6 |
| 4/23/2015 11:28:46 | 34.45 | 33.85 | 388 | 1.59 | 0.30 | 21.2 |
| 4/23/2015 11:28:46 | 34.78 | 34.18 | 396 | 1.59 | 0.30 | 21.7 |
| 4/23/2015 11:28:48 | 35.11 | 34.51 | 394 | 1.59 | 0.30 | 21.5 |
| 4/23/2015 11:28:49 | 35.43 | 34.83 | 390 | 1.59 | 0.31 | 21.3 |
| 4/23/2015 11:28:50 | 35.76 | 35.16 | 402 | 1.60 | 0.30 | 22.0 |
| 4/23/2015 11:28:50 | 36.09 | 35.49 | 402 | 1.60 | 0.30 | 22.0 |
| 4/23/2015 11:28:51 | 36.42 | 35.82 | 389 | 1.59 | 0.30 | 21.3 |
| 4/23/2015 11:28:52 | 36.75 | 36.15 | 396 | 1.60 | 0.30 | 21.6 |
| 4/23/2015 11:28:53 | 37.07 | 36.47 | 383 | 1.60 | 0.30 | 21.0 |
| 4/23/2015 11:28:54 | 37.40 | 36.80 | 396 | 1.59 | 0.30 | 21.7 |
| 4/23/2015 11:28:55 | 37.73 | 37.13 | 389 | 1.60 | 0.30 | 21.3 |
| 4/23/2015 11:28:56 | 38.06 | 37.46 | 390 | 1.59 | 0.29 | 21.3 |
| 4/23/2015 11:28:57 | 38.39 | 37.79 | 394 | 1.59 | 0.29 | 21.6 |
| 4/23/2015 11:28:57 | 38.71 | 38.11 | 391 | 1.59 | 0.29 | 21.4 |
| 4/23/2015 11:28:59 | 39.04 | 38.44 | 393 | 1.59 | 0.29 | 21.5 |
| 4/23/2015 11:29:00 | 39.37 | 38.77 | 387 | 1.59 | 0.29 | 21.2 |
| 4/23/2015 11:29:01 | 39.70 | 39.10 | 386 | 1.59 | 0.29 | 21.1 |
| 4/23/2015 11:29:01 | 40.03 | 39.43 | 381 | 1.58 | 0.29 | 20.8 |
| 4/23/2015 11:29:02 | 40.35 | 39.75 | 383 | 1.60 | 0.29 | 20.9 |
| 4/23/2015 11:29:03 | 40.68 | 40.08 | 387 | 1.59 | 0.29 | 21.2 |
| 4/23/2015 11:29:04 | 41.01 | 40.41 | 394 | 1.59 | 0.29 | 21.5 |
| 4/23/2015 11:29:05 | 41.34 | 40.74 | 394 | 1.60 | 0.29 | 21.6 |
| 4/23/2015 11:29:06 | 41.67 | 41.07 | 389 | 1.62 | 0.29 | 21.2 |
| 4/23/2015 11:29:07 | 41.99 | 41.39 | 385 | 1.58 | 0.29 | 21.0 |
| 4/23/2015 11:29:08 | 42.32 | 41.72 | 376 | 1.59 | 0.29 | 20.6 |
| 4/23/2015 11:29:08 | 42.65 | 42.05 | 376 | 1.59 | 0.29 | 20.6 |
| 4/23/2015 11:29:10 | 42.98 | 42.38 | 385 | 1.59 | 0.29 | 21.1 |
| 4/23/2015 11:29:11 | 43.31 | 42.71 | 393 | 1.59 | 0.29 | 21.5 |
| 4/23/2015 11:29:12 | 43.64 | 43.04 | 391 | 1.59 | 0.29 | 21.4 |
| 4/23/2015 11:29:13 | 43.96 | 43.36 | 385 | 1.55 | 0.30 | 21.1 |
| 4/23/2015 11:29:13 | 44.29 | 43.69 | 394 | 1.59 | 0.29 | 21.5 |
| 4/23/2015 11:29:14 | 44.62 | 44.02 | 388 | 1.57 | 0.29 | 21.2 |
| 4/23/2015 11:29:15 | 44.95 | 44.35 | 387 | 1.59 | 0.31 | 21.2 |
| 4/23/2015 11:29:16 | 45.28 | 44.68 | 385 | 1.59 | 0.29 | 21.0 |
| 4/23/2015 11:29:17 | 45.60 | 45.00 | 387 | 1.59 | 0.29 | 21.2 |
| 4/23/2015 11:29:18 | 45.93 | 45.33 | 385 | 1.58 | 0.29 | 21.0 |
| 4/23/2015 11:29:19 | 46.26 | 45.66 | 390 | 1.59 | 0.29 | 21.3 |
| 4/23/2015 11:29:20 | 46.59 | 45.99 | 385 | 1.59 | 0.29 | 21.1 |
| 4/23/2015 11:29:21 | 46.92 | 46.32 | 390 | 1.59 | 0.29 | 21.3 |
| 4/23/2015 11:29:22 | 47.24 | 46.64 | 385 | 1.59 | 0.29 | 21.0 |
| 4/23/2015 11:29:23 | 47.57 | 46.97 | 388 | 1.59 | 0.29 | 21.2 |
| 4/23/2015 11:29:39 | 47.90 | 47.30 | 70 | 1.58 | 1.03 | 3.8 |
| 4/23/2015 11:29:40 | 48.23 | 47.63 | 202 | 1.60 | 1.03 | 11.0 |
| 4/23/2015 11:29:41 | 48.56 | 47.96 | 328 | 1.59 | 1.03 | 18.0 |
| 4/23/2015 11:29:42 | 48.88 | 48.28 | 333 | 1.58 | 1.04 | 18.2 |
| 4/23/2015 11:29:43 | 49.21 | 48.61 | 333 | 1.59 | 1.03 | 18.2 |
| 4/23/2015 11:29:44 | 49.54 | 48.94 | 325 | 1.59 | 1.03 | 17.8 |
| 4/23/2015 11:29:45 | 49.87 | 49.27 | 326 | 1.59 | 1.03 | 17.8 |
| 4/23/2015 11:29:46 | 50.20 | 49.60 | 313 | 1.59 | 1.02 | 17.1 |
| 4/23/2015 11:29:47 | 50.53 | 49.93 | 325 | 1.59 | 1.02 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:29:48 | 50.85 | 50.25 | 321 | 1.59 | 1.00 | 17.5 |
| 4/23/2015 | 11:29:49 | 51.18 | 50.58 | 329 | 1.59 | 0.99 | 18.0 |
| 4/23/2015 | 11:29:51 | 51.51 | 50.91 | 317 | 1.59 | 0.98 | 17.4 |
| 4/23/2015 | 11:29:52 | 51.84 | 51.24 | 316 | 1.59 | 0.97 | 17.3 |
| 4/23/2015 | 11:29:53 | 52.17 | 51.57 | 323 | 1.59 | 0.96 | 17.7 |
| 4/23/2015 | 11:29:54 | 52.49 | 51.89 | 324 | 1.60 | 0.95 | 17.7 |
| 4/23/2015 | 11:29:55 | 52.82 | 52.22 | 318 | 1.59 | 0.94 | 17.4 |
| 4/23/2015 | 11:29:56 | 53.15 | 52.55 | 316 | 1.57 | 0.93 | 17.3 |
| 4/23/2015 | 11:29:57 | 53.48 | 52.88 | 321 | 1.60 | 0.93 | 17.5 |
| 4/23/2015 | 11:29:59 | 53.81 | 53.21 | 321 | 1.58 | 0.93 | 17.6 |
| 4/23/2015 | 11:30:00 | 54.13 | 53.53 | 318 | 1.59 | 0.93 | 17.4 |
| 4/23/2015 | 11:30:01 | 54.46 | 53.86 | 318 | 1.58 | 0.92 | 17.4 |
| 4/23/2015 | 11:30:02 | 54.79 | 54.19 | 309 | 1.58 | 0.93 | 16.9 |
| 4/23/2015 | 11:30:03 | 55.12 | 54.52 | 307 | 1.61 | 0.92 | 16.8 |
| 4/23/2015 | 11:30:05 | 55.45 | 54.85 | 305 | 1.59 | 0.92 | 16.7 |
| 4/23/2015 | 11:30:06 | 55.77 | 55.17 | 303 | 1.60 | 0.93 | 16.5 |
| 4/23/2015 | 11:30:06 | 55.87 | 55.27 | 305 | 1.54 | 0.93 | 16.7 |

## H252 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:26:28

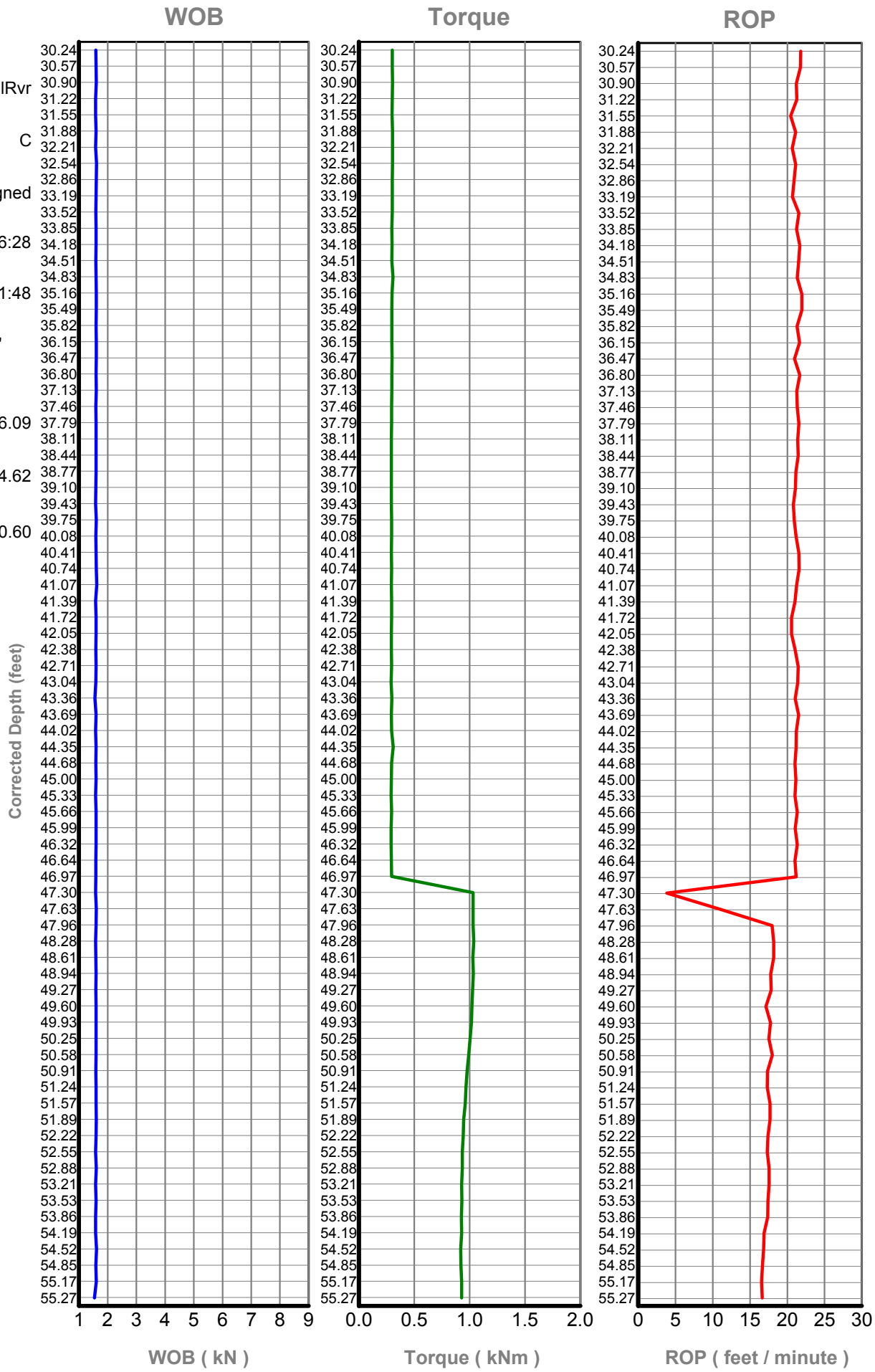
**End Date:**
4/23/2015 11:31:48

**Operator Note:**
'0.6 .7 C Auto Complete'

**Northing:**
367,366.09

**Easting:**
251,804.62

**Tide (feet):**
0.60



## Hole: H253 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:14:06 | 35.11 | 30.31 | 766 | 1.05 | 0.18 | 41.9 |
| 4/27/2015 10:14:07 | 35.43 | 30.63 | 769 | 1.04 | 0.18 | 42.0 |
| 4/27/2015 10:14:07 | 35.76 | 30.96 | 769 | 1.05 | 0.18 | 42.0 |
| 4/27/2015 10:14:08 | 36.09 | 31.29 | 772 | 1.06 | 0.18 | 42.2 |
| 4/27/2015 10:14:08 | 36.42 | 31.62 | 766 | 1.04 | 0.18 | 41.9 |
| 4/27/2015 10:14:09 | 36.75 | 31.95 | 763 | 1.05 | 0.18 | 41.7 |
| 4/27/2015 10:14:09 | 37.07 | 32.27 | 754 | 1.05 | 0.18 | 41.2 |
| 4/27/2015 10:14:10 | 37.40 | 32.60 | 767 | 1.05 | 0.18 | 41.9 |
| 4/27/2015 10:14:10 | 37.73 | 32.93 | 770 | 1.05 | 0.18 | 42.1 |
| 4/27/2015 10:14:11 | 38.06 | 33.26 | 770 | 1.05 | 0.18 | 42.1 |
| 4/27/2015 10:14:11 | 38.39 | 33.59 | 775 | 1.04 | 0.18 | 42.4 |
| 4/27/2015 10:14:11 | 38.71 | 33.91 | 771 | 1.03 | 0.19 | 42.2 |
| 4/27/2015 10:14:12 | 39.04 | 34.24 | 783 | 1.05 | 0.19 | 42.8 |
| 4/27/2015 10:14:12 | 39.37 | 34.57 | 778 | 1.05 | 0.19 | 42.5 |
| 4/27/2015 10:14:13 | 39.70 | 34.90 | 778 | 1.03 | 0.18 | 42.5 |
| 4/27/2015 10:14:13 | 40.03 | 35.23 | 771 | 1.05 | 0.18 | 42.1 |
| 4/27/2015 10:14:14 | 40.35 | 35.55 | 782 | 1.05 | 0.18 | 42.8 |
| 4/27/2015 10:14:14 | 40.68 | 35.88 | 772 | 1.05 | 0.19 | 42.2 |
| 4/27/2015 10:14:15 | 41.01 | 36.21 | 772 | 1.05 | 0.19 | 42.2 |
| 4/27/2015 10:14:15 | 41.34 | 36.54 | 766 | 1.05 | 0.19 | 41.9 |
| 4/27/2015 10:14:16 | 41.67 | 36.87 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 10:14:16 | 41.99 | 37.19 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 10:14:17 | 42.32 | 37.52 | 760 | 1.06 | 0.18 | 41.6 |
| 4/27/2015 10:14:17 | 42.65 | 37.85 | 766 | 1.05 | 0.18 | 41.9 |
| 4/27/2015 10:14:18 | 42.98 | 38.18 | 764 | 1.03 | 0.18 | 41.8 |
| 4/27/2015 10:14:18 | 43.31 | 38.51 | 772 | 1.04 | 0.18 | 42.2 |
| 4/27/2015 10:14:19 | 43.64 | 38.84 | 760 | 1.06 | 0.18 | 41.5 |
| 4/27/2015 10:14:19 | 43.96 | 39.16 | 760 | 1.06 | 0.18 | 41.5 |
| 4/27/2015 10:14:19 | 44.29 | 39.49 | 760 | 1.05 | 0.18 | 41.5 |
| 4/27/2015 10:14:20 | 44.62 | 39.82 | 763 | 1.06 | 0.19 | 41.7 |
| 4/27/2015 10:14:20 | 44.95 | 40.15 | 767 | 1.05 | 0.18 | 42.0 |
| 4/27/2015 10:14:21 | 45.28 | 40.48 | 765 | 1.05 | 0.19 | 41.8 |
| 4/27/2015 10:14:21 | 45.60 | 40.80 | 754 | 1.06 | 0.19 | 41.3 |
| 4/27/2015 10:14:22 | 45.93 | 41.13 | 761 | 1.06 | 0.18 | 41.6 |
| 4/27/2015 10:14:22 | 46.26 | 41.46 | 755 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 10:14:23 | 46.59 | 41.79 | 744 | 1.05 | 0.18 | 40.7 |
| 4/27/2015 10:14:23 | 46.92 | 42.12 | 749 | 1.06 | 0.18 | 40.9 |
| 4/27/2015 10:14:24 | 47.24 | 42.44 | 752 | 1.04 | 0.19 | 41.1 |
| 4/27/2015 10:14:25 | 47.57 | 42.77 | 752 | 1.04 | 0.19 | 41.1 |
| 4/27/2015 10:14:24 | 47.90 | 43.10 | 753 | 1.05 | 0.19 | 41.2 |
| 4/27/2015 10:14:25 | 48.23 | 43.43 | 755 | 1.07 | 0.19 | 41.3 |
| 4/27/2015 10:14:26 | 48.56 | 43.76 | 755 | 1.07 | 0.18 | 41.3 |
| 4/27/2015 10:14:26 | 48.88 | 44.08 | 743 | 1.09 | 0.19 | 40.6 |
| 4/27/2015 10:14:42 | 49.21 | 44.41 | 0 | 1.67 | 0.88 | 0.0 |
| 4/27/2015 10:14:43 | 49.54 | 44.74 | 231 | 1.07 | 0.92 | 12.6 |
| 4/27/2015 10:14:44 | 49.87 | 45.07 | 365 | 1.09 | 1.01 | 19.9 |
| 4/27/2015 10:14:47 | 50.20 | 45.40 | 259 | 1.04 | 1.18 | 14.2 |
| 4/27/2015 10:14:47 | 50.53 | 45.73 | 250 | 1.05 | 1.00 | 13.7 |
| 4/27/2015 10:14:48 | 50.85 | 46.05 | 284 | 1.04 | 1.01 | 15.5 |
| 4/27/2015 10:14:49 | 51.18 | 46.38 | 371 | 1.00 | 0.92 | 20.3 |
| 4/27/2015 10:14:49 | 51.51 | 46.71 | 430 | 1.05 | 0.93 | 23.5 |
| 4/27/2015 10:14:51 | 51.84 | 47.04 | 384 | 1.09 | 1.04 | 21.0 |
| 4/27/2015 10:14:52 | 52.17 | 47.37 | 280 | 1.05 | 1.11 | 15.3 |
| 4/27/2015 10:14:54 | 52.49 | 47.69 | 206 | 1.12 | 1.07 | 11.2 |
| 4/27/2015 10:14:55 | 52.82 | 48.02 | 244 | 1.05 | 1.06 | 13.3 |
| 4/27/2015 10:14:57 | 53.15 | 48.35 | 279 | 1.14 | 1.20 | 15.3 |
| 4/27/2015 10:14:58 | 53.48 | 48.68 | 287 | 1.05 | 1.24 | 15.7 |
| 4/27/2015 10:15:00 | 53.81 | 49.01 | 201 | 1.07 | 1.27 | 11.0 |
| 4/27/2015 10:15:03 | 54.13 | 49.33 | 90 | 1.06 | 1.36 | 4.9 |
| 4/27/2015 10:15:11 | 54.46 | 49.66 | 20 | 1.21 | 0.92 | 1.1 |
| 4/27/2015 10:15:20 | 54.79 | 49.99 | 35 | 1.01 | 0.86 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:15:28 | 55.12 | 50.32 | 69 | 1.08 | 1.15 | 3.8 |
| 4/27/2015 | 10:15:33 | 55.45 | 50.65 | 55 | 1.00 | 0.94 | 3.0 |
| 4/27/2015 | 10:15:39 | 55.77 | 50.97 | 64 | 1.07 | 1.08 | 3.5 |
| 4/27/2015 | 10:15:45 | 56.10 | 51.30 | 58 | 0.96 | 1.05 | 3.2 |
| 4/27/2015 | 10:15:53 | 56.39 | 51.59 | 3 | 0.47 | 0.99 | 0.2 |

## H253 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:12:49

**End Date:**
4/27/2015 10:21:16

**Operator Note:**
'4.8 5.0 a Auto Complete'

**Northing:**
365,249.78

**Easting:**
249,280.20

**Tide (feet):**
4.80



## Hole: H254 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:12:37 | 35.11 | 30.31 | 1,120 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 10:12:37 | 35.43 | 30.63 | 1,127 | 0.28 | 0.31 | 61.7 |
| 4/27/2015 10:12:38 | 35.76 | 30.96 | 1,127 | 0.28 | 0.31 | 61.7 |
| 4/27/2015 10:12:38 | 36.09 | 31.29 | 1,125 | 0.28 | 0.31 | 61.5 |
| 4/27/2015 10:12:38 | 36.42 | 31.62 | 1,122 | 0.28 | 0.31 | 61.3 |
| 4/27/2015 10:12:39 | 36.75 | 31.95 | 1,122 | 0.28 | 0.31 | 61.3 |
| 4/27/2015 10:12:39 | 37.07 | 32.27 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 10:12:39 | 37.40 | 32.60 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 10:12:39 | 37.73 | 32.93 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/27/2015 10:12:40 | 38.06 | 33.26 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 10:12:40 | 38.39 | 33.59 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 10:12:40 | 38.71 | 33.91 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/27/2015 10:12:41 | 39.04 | 34.24 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/27/2015 10:12:41 | 39.37 | 34.57 | 1,103 | 0.29 | 0.31 | 60.3 |
| 4/27/2015 10:12:41 | 39.70 | 34.90 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 10:12:42 | 40.03 | 35.23 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 10:12:42 | 40.35 | 35.55 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 10:12:42 | 40.68 | 35.88 | 1,109 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 10:12:43 | 41.01 | 36.21 | 1,109 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 10:12:43 | 41.34 | 36.54 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 10:12:43 | 41.67 | 36.87 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 10:12:43 | 41.99 | 37.19 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/27/2015 10:12:44 | 42.32 | 37.52 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:44 | 42.65 | 37.85 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:44 | 42.98 | 38.18 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:45 | 43.31 | 38.51 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:45 | 43.64 | 38.84 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/27/2015 10:12:46 | 43.96 | 39.16 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:46 | 44.29 | 39.49 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 10:12:46 | 44.62 | 39.82 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 10:12:47 | 44.95 | 40.15 | 1,104 | 0.29 | 0.32 | 60.4 |
| 4/27/2015 10:12:47 | 45.28 | 40.48 | 1,104 | 0.29 | 0.32 | 60.4 |
| 4/27/2015 10:12:47 | 45.60 | 40.80 | 1,104 | 0.29 | 0.32 | 60.4 |
| 4/27/2015 10:12:48 | 45.93 | 41.13 | 1,104 | 0.29 | 0.32 | 60.4 |
| 4/27/2015 10:12:48 | 46.26 | 41.46 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/27/2015 10:12:48 | 46.59 | 41.79 | 1,101 | 0.35 | 0.32 | 60.2 |
| 4/27/2015 10:12:49 | 46.92 | 42.12 | 1,101 | 0.35 | 0.32 | 60.2 |
| 4/27/2015 10:12:49 | 47.24 | 42.44 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/27/2015 10:12:49 | 47.57 | 42.77 | 1,092 | 0.37 | 0.31 | 59.7 |
| 4/27/2015 10:12:50 | 47.90 | 43.10 | 1,092 | 0.37 | 0.31 | 59.7 |
| 4/27/2015 10:12:50 | 48.23 | 43.43 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 10:12:50 | 48.56 | 43.76 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 10:12:50 | 48.88 | 44.08 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/27/2015 10:12:51 | 49.21 | 44.41 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:12:51 | 49.54 | 44.74 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 10:12:51 | 49.87 | 45.07 | 1,090 | 0.28 | 0.33 | 59.6 |
| 4/27/2015 10:12:52 | 50.20 | 45.40 | 1,064 | 0.26 | 0.37 | 58.2 |
| 4/27/2015 10:12:57 | 50.53 | 45.73 | 0 | 2.99 | 0.37 | 0.0 |
| 4/27/2015 10:13:01 | 50.85 | 46.05 | 49 | 3.24 | 0.37 | 2.7 |
| 4/27/2015 10:13:02 | 51.18 | 46.38 | 167 | 4.24 | 0.37 | 9.2 |
| 4/27/2015 10:13:02 | 51.51 | 46.71 | 245 | 2.80 | 0.36 | 13.4 |
| 4/27/2015 10:13:07 | 51.84 | 47.04 | 31 | 3.68 | 0.36 | 1.7 |
| 4/27/2015 10:13:08 | 52.17 | 47.37 | 223 | 3.35 | 0.35 | 12.2 |
| 4/27/2015 10:13:08 | 52.49 | 47.69 | 349 | 2.63 | 0.35 | 19.1 |
| 4/27/2015 10:13:14 | 52.82 | 48.02 | 23 | 3.26 | 0.37 | 1.3 |
| 4/27/2015 10:13:14 | 53.15 | 48.35 | 97 | 2.69 | 0.37 | 5.3 |
| 4/27/2015 10:13:15 | 53.48 | 48.68 | 266 | 3.90 | 0.38 | 14.5 |
| 4/27/2015 10:13:21 | 53.81 | 49.01 | 46 | 3.81 | 0.40 | 2.5 |
| 4/27/2015 10:13:33 | 54.13 | 49.33 | 57 | 3.37 | 0.39 | 3.1 |
| 4/27/2015 10:13:45 | 54.46 | 49.66 | 89 | 3.60 | 0.39 | 4.9 |
| 4/27/2015 10:13:48 | 54.79 | 49.99 | 136 | 2.95 | 0.39 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:13:50 | 55.12 | 50.32 | 159 | 2.76 | 0.39 | 8.7 |
| 4/27/2015 | 10:13:51 | 55.45 | 50.65 | 214 | 2.55 | 0.37 | 11.7 |
| 4/27/2015 | 10:13:52 | 55.77 | 50.97 | 286 | 3.34 | 0.40 | 15.7 |
| 4/27/2015 | 10:14:00 | 56.10 | 51.30 | 90 | 3.59 | 0.39 | 4.9 |
| 4/27/2015 | 10:14:03 | 56.43 | 51.63 | 104 | 3.11 | 0.41 | 5.7 |
| 4/27/2015 | 10:14:09 | 56.76 | 51.96 | 72 | 3.09 | 0.40 | 3.9 |
| 4/27/2015 | 10:14:15 | 57.09 | 52.29 | 55 | 2.97 | 0.39 | 3.0 |
| 4/27/2015 | 10:14:21 | 57.41 | 52.61 | 64 | 3.38 | 0.40 | 3.5 |
| 4/27/2015 | 10:14:23 | 57.53 | 52.73 | 64 | 3.36 | 0.40 | 3.5 |

## H254 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:09:00

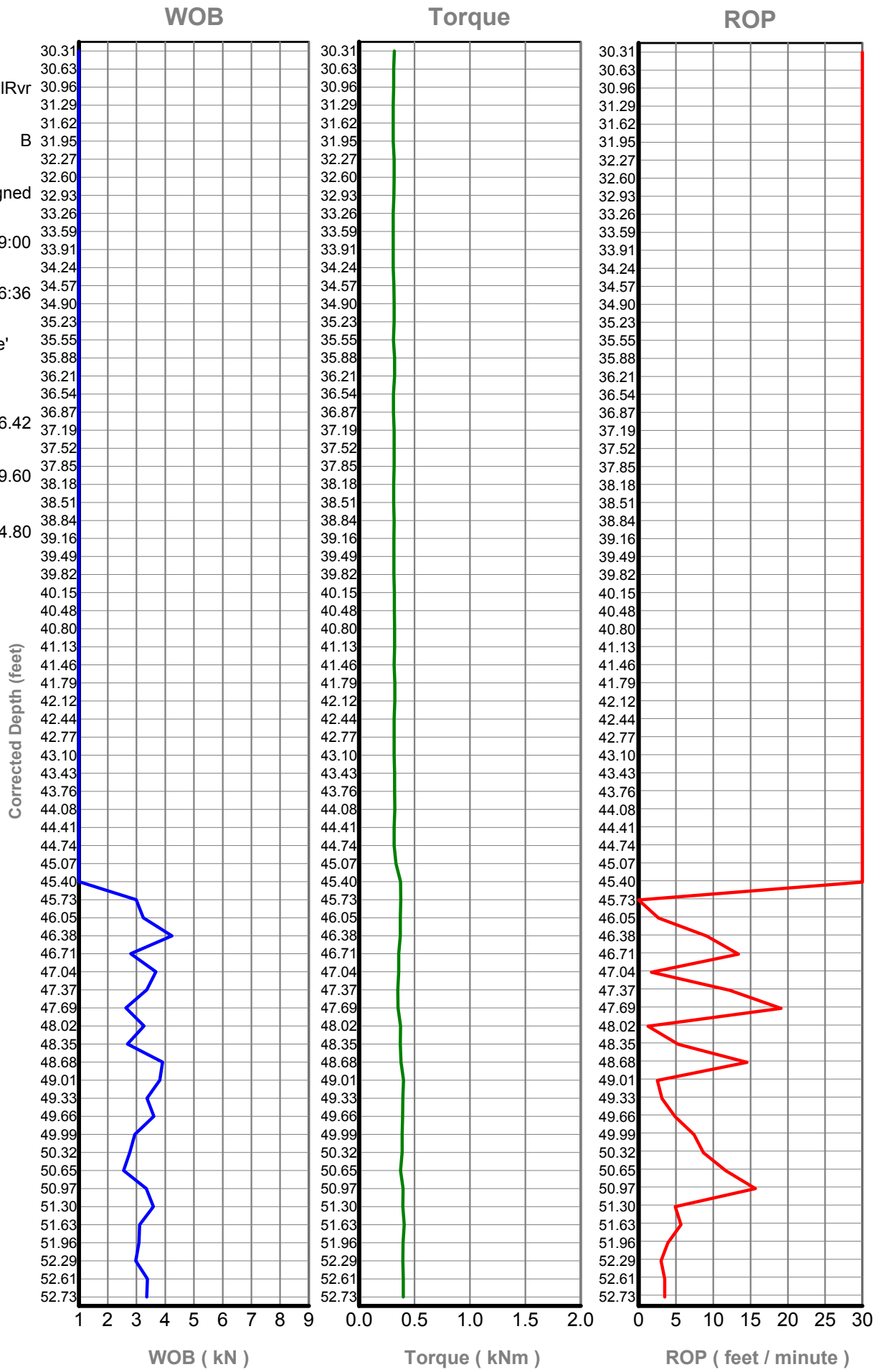
**End Date:**
4/27/2015 10:16:36

**Operator Note:**
'4.8 5.0 b Auto Complete'

**Northing:**
365,296.42

**Easting:**
249,339.60

**Tide (feet):**
4.80



## Hole: H255 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 10:12:59 | 35.11 | 30.31 | 1,138 | 1.74 | 0.28 | 62.2 |
| 4/27/2015 10:12:59 | 35.43 | 30.63 | 1,151 | 1.71 | 0.29 | 62.9 |
| 4/27/2015 10:12:59 | 35.76 | 30.96 | 1,145 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 10:13:00 | 36.09 | 31.29 | 1,145 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 10:13:00 | 36.42 | 31.62 | 1,102 | 1.71 | 0.29 | 60.3 |
| 4/27/2015 10:13:00 | 36.75 | 31.95 | 1,102 | 1.71 | 0.29 | 60.3 |
| 4/27/2015 10:13:00 | 37.07 | 32.27 | 1,102 | 1.74 | 0.29 | 60.3 |
| 4/27/2015 10:13:01 | 37.40 | 32.60 | 1,134 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 10:13:01 | 37.73 | 32.93 | 1,134 | 1.72 | 0.29 | 62.0 |
| 4/27/2015 10:13:01 | 38.06 | 33.26 | 1,140 | 1.73 | 0.29 | 62.3 |
| 4/27/2015 10:13:02 | 38.39 | 33.59 | 1,140 | 1.73 | 0.29 | 62.3 |
| 4/27/2015 10:13:02 | 38.71 | 33.91 | 1,131 | 1.73 | 0.29 | 61.8 |
| 4/27/2015 10:13:02 | 39.04 | 34.24 | 1,127 | 1.72 | 0.29 | 61.6 |
| 4/27/2015 10:13:03 | 39.37 | 34.57 | 1,127 | 1.72 | 0.29 | 61.6 |
| 4/27/2015 10:13:03 | 39.70 | 34.90 | 1,180 | 1.71 | 0.29 | 64.5 |
| 4/27/2015 10:13:03 | 40.03 | 35.23 | 1,180 | 1.71 | 0.29 | 64.5 |
| 4/27/2015 10:13:03 | 40.35 | 35.55 | 1,149 | 1.72 | 0.28 | 62.8 |
| 4/27/2015 10:13:04 | 40.68 | 35.88 | 1,149 | 1.74 | 0.28 | 62.8 |
| 4/27/2015 10:13:04 | 41.01 | 36.21 | 1,149 | 1.74 | 0.28 | 62.8 |
| 4/27/2015 10:13:04 | 41.34 | 36.54 | 1,127 | 1.74 | 0.28 | 61.6 |
| 4/27/2015 10:13:05 | 41.67 | 36.87 | 1,127 | 1.74 | 0.28 | 61.6 |
| 4/27/2015 10:13:05 | 41.99 | 37.19 | 1,130 | 1.72 | 0.28 | 61.8 |
| 4/27/2015 10:13:05 | 42.32 | 37.52 | 1,130 | 1.74 | 0.29 | 61.8 |
| 4/27/2015 10:13:06 | 42.65 | 37.85 | 1,130 | 1.74 | 0.29 | 61.8 |
| 4/27/2015 10:13:06 | 42.98 | 38.18 | 1,106 | 1.73 | 0.28 | 60.5 |
| 4/27/2015 10:13:06 | 43.31 | 38.51 | 1,106 | 1.73 | 0.28 | 60.5 |
| 4/27/2015 10:13:06 | 43.64 | 38.84 | 1,106 | 1.76 | 0.28 | 60.5 |
| 4/27/2015 10:13:07 | 43.96 | 39.16 | 1,132 | 1.72 | 0.29 | 61.9 |
| 4/27/2015 10:13:08 | 44.29 | 39.49 | 1,132 | 1.72 | 0.29 | 61.9 |
| 4/27/2015 10:13:07 | 44.62 | 39.82 | 1,111 | 1.73 | 0.29 | 60.7 |
| 4/27/2015 10:13:08 | 44.95 | 40.15 | 1,111 | 1.73 | 0.29 | 60.7 |
| 4/27/2015 10:13:08 | 45.28 | 40.48 | 1,111 | 1.71 | 0.29 | 60.7 |
| 4/27/2015 10:13:09 | 45.60 | 40.80 | 1,127 | 1.71 | 0.29 | 61.6 |
| 4/27/2015 10:13:09 | 45.93 | 41.13 | 1,127 | 1.71 | 0.29 | 61.6 |
| 4/27/2015 10:13:09 | 46.26 | 41.46 | 1,127 | 1.76 | 0.29 | 61.6 |
| 4/27/2015 10:13:10 | 46.59 | 41.79 | 1,127 | 1.76 | 0.29 | 61.6 |
| 4/27/2015 10:13:10 | 46.92 | 42.12 | 1,129 | 1.72 | 0.29 | 61.7 |
| 4/27/2015 10:13:10 | 47.24 | 42.44 | 1,129 | 1.74 | 0.29 | 61.7 |
| 4/27/2015 10:13:11 | 47.57 | 42.77 | 1,129 | 1.74 | 0.29 | 61.7 |
| 4/27/2015 10:13:11 | 47.90 | 43.10 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:13:11 | 48.23 | 43.43 | 1,136 | 1.73 | 0.29 | 62.1 |
| 4/27/2015 10:13:11 | 48.56 | 43.76 | 1,120 | 1.72 | 0.29 | 61.3 |
| 4/27/2015 10:13:12 | 48.88 | 44.08 | 1,120 | 1.76 | 0.29 | 61.3 |
| 4/27/2015 10:13:27 | 49.21 | 44.41 | 0 | 1.71 | 1.30 | 0.0 |
| 4/27/2015 10:13:31 | 49.54 | 44.74 | 55 | 1.87 | 0.93 | 3.0 |
| 4/27/2015 10:13:32 | 49.87 | 45.07 | 165 | 1.71 | 1.32 | 9.0 |
| 4/27/2015 10:13:32 | 50.20 | 45.40 | 225 | 1.80 | 1.16 | 12.3 |
| 4/27/2015 10:13:33 | 50.53 | 45.73 | 328 | 1.75 | 1.14 | 17.9 |
| 4/27/2015 10:13:33 | 50.85 | 46.05 | 466 | 1.78 | 1.09 | 25.5 |
| 4/27/2015 10:13:55 | 51.18 | 46.38 | 8 | 1.74 | 1.14 | 0.5 |
| 4/27/2015 10:13:55 | 51.51 | 46.71 | 50 | 1.73 | 1.17 | 2.7 |
| 4/27/2015 10:13:56 | 51.84 | 47.04 | 143 | 1.76 | 1.17 | 7.8 |
| 4/27/2015 10:13:57 | 52.17 | 47.37 | 252 | 1.77 | 1.20 | 13.8 |
| 4/27/2015 10:13:58 | 52.49 | 47.69 | 444 | 1.71 | 1.27 | 24.3 |
| 4/27/2015 10:13:59 | 52.82 | 48.02 | 483 | 1.75 | 1.14 | 26.4 |
| 4/27/2015 10:13:59 | 53.15 | 48.35 | 483 | 1.76 | 1.06 | 26.4 |
| 4/27/2015 10:13:59 | 53.48 | 48.68 | 520 | 1.76 | 1.17 | 28.5 |
| 4/27/2015 10:14:38 | 53.81 | 49.01 | 21 | 1.78 | 1.15 | 1.1 |
| 4/27/2015 10:15:09 | 54.13 | 49.33 | 60 | 1.77 | 1.24 | 3.3 |
| 4/27/2015 10:15:12 | 54.46 | 49.66 | 124 | 1.75 | 1.27 | 6.8 |
| 4/27/2015 10:15:15 | 54.79 | 49.99 | 124 | 1.73 | 1.21 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 10:15:17 | 55.12 | 50.32 | 148 | 1.74 | 1.29 | 8.1 |
| 4/27/2015 | 10:15:20 | 55.45 | 50.65 | 138 | 1.75 | 1.21 | 7.6 |
| 4/27/2015 | 10:15:24 | 55.77 | 50.97 | 98 | 1.75 | 1.27 | 5.4 |
| 4/27/2015 | 10:15:27 | 56.10 | 51.30 | 103 | 1.76 | 1.36 | 5.6 |
| 4/27/2015 | 10:15:33 | 56.43 | 51.63 | 40 | 1.76 | 1.13 | 2.2 |
| 4/27/2015 | 10:15:42 | 56.76 | 51.96 | 47 | 1.76 | 1.29 | 2.5 |
| 4/27/2015 | 10:15:48 | 57.09 | 52.29 | 46 | 1.76 | 1.27 | 2.5 |
| 4/27/2015 | 10:15:55 | 57.37 | 52.57 | 42 | 1.75 | 1.29 | 2.3 |

## H255 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 10:11:48

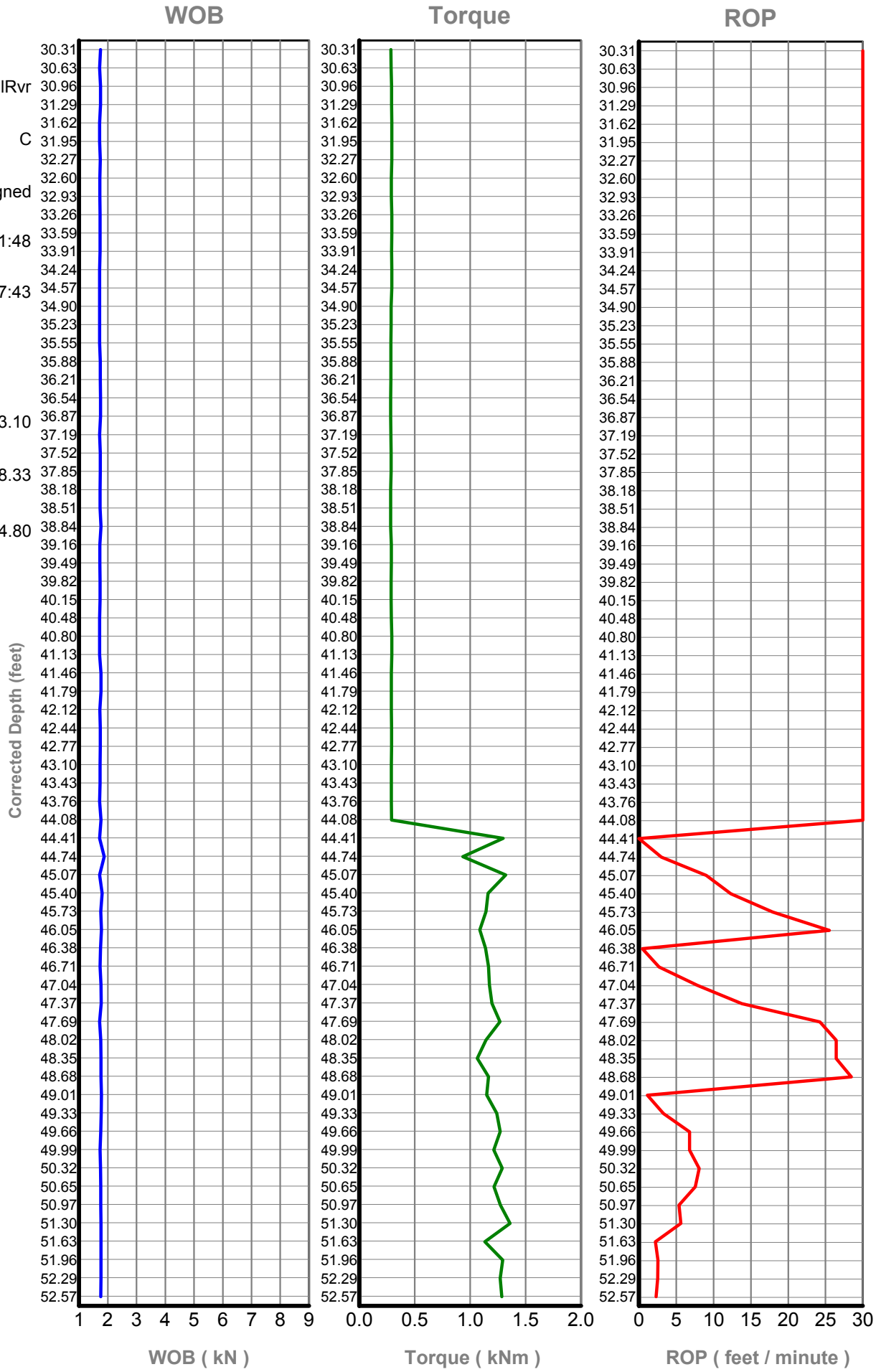
**End Date:**
4/27/2015 10:17:43

**Operator Note:**
'4.8 5.0 C Auto Complete'

**Northing:**
365,343.10

**Easting:**
249,398.33

**Tide (feet):**
4.80



## Hole: H256 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:37:19 | 32.15 | 30.15 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:37:19 | 32.48 | 30.48 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:37:20 | 32.81 | 30.81 | 1,045 | 0.33 | 0.31 | 57.2 |
| 4/27/2015 3:37:20 | 33.14 | 31.14 | 1,045 | 0.33 | 0.31 | 57.2 |
| 4/27/2015 3:37:20 | 33.46 | 31.46 | 1,045 | 0.33 | 0.32 | 57.2 |
| 4/27/2015 3:37:21 | 33.79 | 31.79 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/27/2015 3:37:21 | 34.12 | 32.12 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/27/2015 3:37:21 | 34.45 | 32.45 | 1,037 | 0.33 | 0.31 | 56.7 |
| 4/27/2015 3:37:22 | 34.78 | 32.78 | 1,048 | 0.33 | 0.32 | 57.3 |
| 4/27/2015 3:37:22 | 35.11 | 33.11 | 1,048 | 0.33 | 0.32 | 57.3 |
| 4/27/2015 3:37:22 | 35.43 | 33.43 | 1,048 | 0.33 | 0.32 | 57.3 |
| 4/27/2015 3:37:23 | 35.76 | 33.76 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:37:23 | 36.09 | 34.09 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:37:23 | 36.42 | 34.42 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:37:24 | 36.75 | 34.75 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/27/2015 3:37:24 | 37.07 | 35.07 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/27/2015 3:37:24 | 37.40 | 35.40 | 1,004 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 3:37:25 | 37.73 | 35.73 | 1,004 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 3:37:25 | 38.06 | 36.06 | 1,004 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 3:37:25 | 38.39 | 36.39 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 3:37:26 | 38.71 | 36.71 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 3:37:26 | 39.04 | 37.04 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 3:37:26 | 39.37 | 37.37 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:37:27 | 39.70 | 37.70 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:37:28 | 40.03 | 38.03 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:37:27 | 40.35 | 38.35 | 990 | 0.33 | 0.32 | 54.1 |
| 4/27/2015 3:37:28 | 40.68 | 38.68 | 990 | 0.33 | 0.31 | 54.1 |
| 4/27/2015 3:37:29 | 41.01 | 39.01 | 990 | 0.33 | 0.31 | 54.1 |
| 4/27/2015 3:37:28 | 41.34 | 39.34 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:29 | 41.67 | 39.67 | 1,019 | 0.33 | 0.32 | 55.7 |
| 4/27/2015 3:37:29 | 41.99 | 39.99 | 1,019 | 0.33 | 0.32 | 55.7 |
| 4/27/2015 3:37:29 | 42.32 | 40.32 | 1,019 | 0.33 | 0.32 | 55.7 |
| 4/27/2015 3:37:30 | 42.65 | 40.65 | 1,022 | 0.34 | 0.32 | 55.9 |
| 4/27/2015 3:37:31 | 42.98 | 40.98 | 1,022 | 0.34 | 0.32 | 55.9 |
| 4/27/2015 3:37:31 | 43.31 | 41.31 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:31 | 43.64 | 41.64 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/27/2015 3:37:32 | 43.96 | 41.96 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/27/2015 3:37:32 | 44.29 | 42.29 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:37:32 | 44.62 | 42.62 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:33 | 44.95 | 42.95 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:33 | 45.28 | 43.28 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:33 | 45.60 | 43.60 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:34 | 45.93 | 43.93 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:37:34 | 46.26 | 44.26 | 992 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 3:37:34 | 46.59 | 44.59 | 992 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 3:37:35 | 46.92 | 44.92 | 992 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 3:37:35 | 47.24 | 45.24 | 1,018 | 0.33 | 0.32 | 55.7 |
| 4/27/2015 3:37:35 | 47.57 | 45.57 | 1,024 | 0.32 | 0.34 | 56.0 |
| 4/27/2015 3:37:36 | 47.90 | 45.90 | 1,024 | 0.32 | 0.34 | 56.0 |
| 4/27/2015 3:37:41 | 48.23 | 46.23 | 31 | 4.05 | 0.38 | 1.7 |
| 4/27/2015 3:37:43 | 48.56 | 46.56 | 124 | 4.13 | 0.39 | 6.8 |
| 4/27/2015 3:37:44 | 48.88 | 46.88 | 206 | 5.88 | 0.39 | 11.2 |
| 4/27/2015 3:37:46 | 49.21 | 47.21 | 205 | 4.21 | 0.38 | 11.2 |
| 4/27/2015 3:37:47 | 49.54 | 47.54 | 235 | 3.43 | 0.39 | 12.9 |
| 4/27/2015 3:37:48 | 49.87 | 47.87 | 254 | 2.85 | 0.39 | 13.9 |
| 4/27/2015 3:37:50 | 50.20 | 48.20 | 271 | 3.12 | 0.38 | 14.8 |
| 4/27/2015 3:37:51 | 50.53 | 48.53 | 256 | 2.67 | 0.38 | 14.0 |
| 4/27/2015 3:37:52 | 50.85 | 48.85 | 283 | 2.80 | 0.38 | 15.5 |
| 4/27/2015 3:37:53 | 51.18 | 49.18 | 291 | 2.67 | 0.37 | 15.9 |
| 4/27/2015 3:37:54 | 51.51 | 49.51 | 303 | 2.46 | 0.36 | 16.6 |
| 4/27/2015 3:37:55 | 51.84 | 49.84 | 366 | 2.50 | 0.36 | 20.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:37:55 | 52.17 | 50.17 | 394 | 2.45 | 0.37 | 21.5 |
| 4/27/2015 | 3:37:56 | 52.49 | 50.49 | 478 | 2.45 | 0.36 | 26.2 |
| 4/27/2015 | 3:37:57 | 52.82 | 50.82 | 478 | 2.65 | 0.37 | 26.2 |
| 4/27/2015 | 3:37:57 | 53.15 | 51.15 | 514 | 2.67 | 0.37 | 28.1 |
| 4/27/2015 | 3:37:58 | 53.48 | 51.48 | 478 | 3.35 | 0.37 | 26.1 |
| 4/27/2015 | 3:38:03 | 53.81 | 51.81 | 43 | 2.75 | 0.37 | 2.3 |
| 4/27/2015 | 3:38:04 | 54.13 | 52.13 | 197 | 2.72 | 0.39 | 10.7 |
| 4/27/2015 | 3:38:06 | 54.46 | 52.46 | 298 | 3.26 | 0.38 | 16.3 |
| 4/27/2015 | 3:38:09 | 54.79 | 52.79 | 105 | 2.86 | 0.40 | 5.7 |
| 4/27/2015 | 3:38:20 | 55.12 | 53.12 | 23 | 3.19 | 0.41 | 1.2 |
| 4/27/2015 | 3:38:35 | 55.45 | 53.45 | 0 | 3.95 | 0.40 | 0.0 |
| 4/27/2015 | 3:38:43 | 55.77 | 53.77 | 68 | 3.51 | 0.39 | 3.7 |
| 4/27/2015 | 3:38:45 | 56.10 | 54.10 | 168 | 3.34 | 0.40 | 9.2 |
| 4/27/2015 | 3:38:48 | 56.43 | 54.43 | 96 | 3.39 | 0.39 | 5.3 |
| 4/27/2015 | 3:38:52 | 56.76 | 54.76 | 86 | 3.20 | 0.40 | 4.7 |
| 4/27/2015 | 3:38:53 | 56.83 | 54.83 | 86 | 3.43 | 0.39 | 4.7 |

## H256 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:36:08

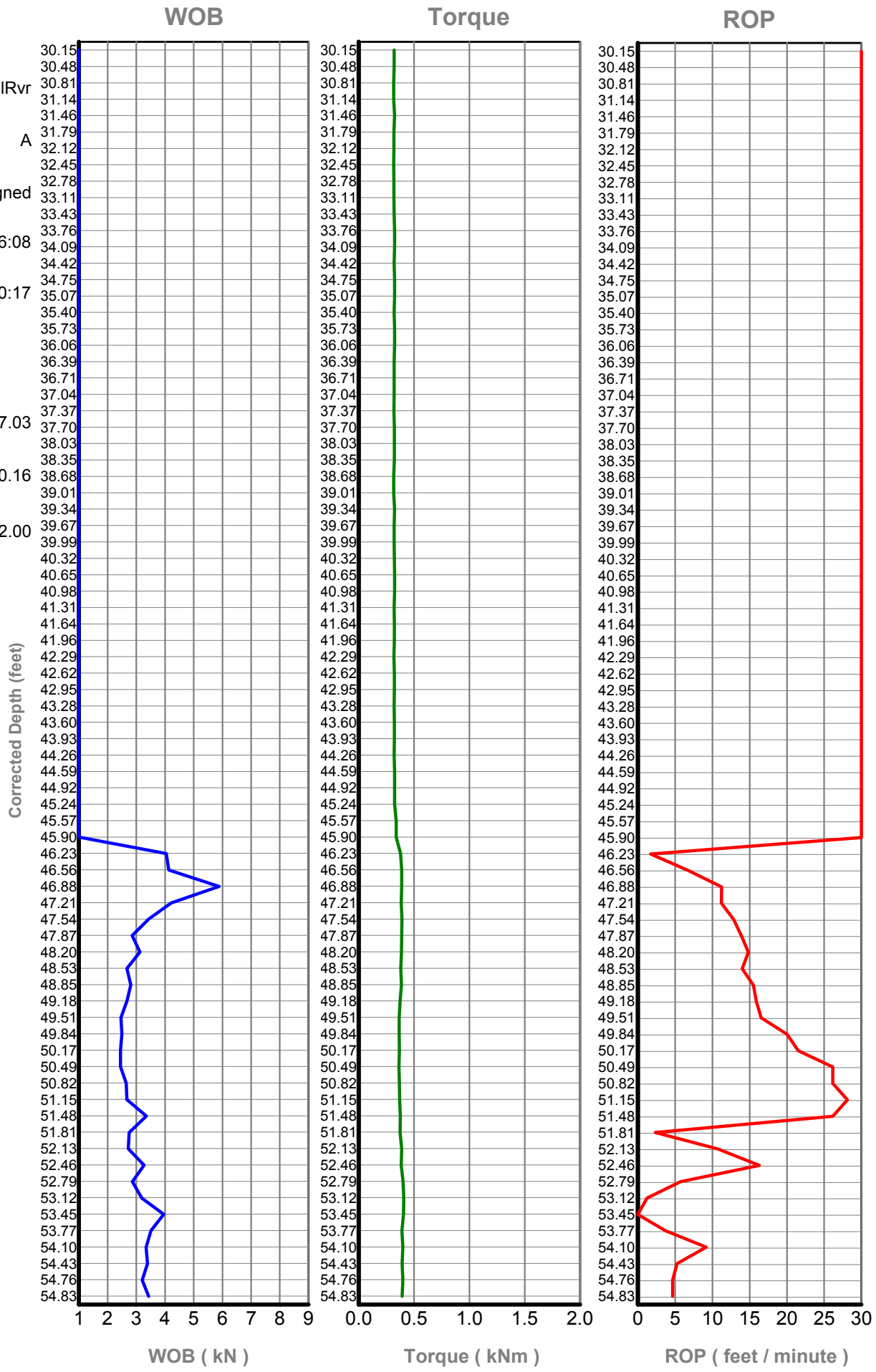
**End Date:**
4/27/2015 3:40:17

**Operator Note:**
'2 1.8b Auto Complete'

**Northing:**
365,397.03

**Easting:**
249,460.16

**Tide (feet):**
2.00



## Hole: H257 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:32:15 | 32.15 | 30.25 | 1,018 | 0.34 | 0.32 | 55.7 |
| 4/27/2015 3:32:15 | 32.48 | 30.58 | 1,018 | 0.34 | 0.32 | 55.7 |
| 4/27/2015 3:32:15 | 32.81 | 30.91 | 1,018 | 0.34 | 0.31 | 55.7 |
| 4/27/2015 3:32:16 | 33.14 | 31.24 | 1,027 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:32:16 | 33.46 | 31.56 | 1,027 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:32:16 | 33.79 | 31.89 | 1,017 | 0.34 | 0.32 | 55.6 |
| 4/27/2015 3:32:17 | 34.12 | 32.22 | 1,017 | 0.34 | 0.32 | 55.6 |
| 4/27/2015 3:32:17 | 34.45 | 32.55 | 1,014 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:18 | 34.78 | 32.88 | 1,014 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:18 | 35.11 | 33.21 | 1,020 | 0.35 | 0.32 | 55.8 |
| 4/27/2015 3:32:19 | 35.43 | 33.53 | 1,015 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:19 | 35.76 | 33.86 | 1,015 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:19 | 36.09 | 34.19 | 1,015 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:20 | 36.42 | 34.52 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:32:20 | 36.75 | 34.85 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:32:20 | 37.07 | 35.17 | 1,018 | 0.34 | 0.32 | 55.6 |
| 4/27/2015 3:32:21 | 37.40 | 35.50 | 1,012 | 0.34 | 0.32 | 55.3 |
| 4/27/2015 3:32:21 | 37.73 | 35.83 | 1,012 | 0.34 | 0.32 | 55.3 |
| 4/27/2015 3:32:21 | 38.06 | 36.16 | 1,012 | 0.27 | 0.32 | 55.3 |
| 4/27/2015 3:32:22 | 38.39 | 36.49 | 1,008 | 0.34 | 0.32 | 55.1 |
| 4/27/2015 3:32:22 | 38.71 | 36.81 | 1,008 | 0.34 | 0.32 | 55.1 |
| 4/27/2015 3:32:22 | 39.04 | 37.14 | 1,017 | 0.35 | 0.32 | 55.6 |
| 4/27/2015 3:32:23 | 39.37 | 37.47 | 1,015 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:23 | 39.70 | 37.80 | 1,015 | 0.34 | 0.32 | 55.5 |
| 4/27/2015 3:32:23 | 40.03 | 38.13 | 1,003 | 0.35 | 0.32 | 54.9 |
| 4/27/2015 3:32:24 | 40.35 | 38.45 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 3:32:24 | 40.68 | 38.78 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 3:32:24 | 41.01 | 39.11 | 1,013 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 3:32:25 | 41.34 | 39.44 | 1,004 | 0.35 | 0.32 | 54.9 |
| 4/27/2015 3:32:25 | 41.67 | 39.77 | 1,004 | 0.35 | 0.32 | 54.9 |
| 4/27/2015 3:32:25 | 41.99 | 40.09 | 1,004 | 0.35 | 0.32 | 54.9 |
| 4/27/2015 3:32:26 | 42.32 | 40.42 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:32:26 | 42.65 | 40.75 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 3:32:26 | 42.98 | 41.08 | 1,012 | 0.34 | 0.32 | 55.4 |
| 4/27/2015 3:32:27 | 43.31 | 41.41 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 3:32:27 | 43.64 | 41.74 | 1,012 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 3:32:27 | 43.96 | 42.06 | 1,009 | 0.34 | 0.32 | 55.2 |
| 4/27/2015 3:32:28 | 44.29 | 42.39 | 1,009 | 0.35 | 0.32 | 55.2 |
| 4/27/2015 3:32:29 | 44.62 | 42.72 | 1,009 | 0.35 | 0.32 | 55.2 |
| 4/27/2015 3:32:29 | 44.95 | 43.05 | 1,018 | 0.34 | 0.32 | 55.7 |
| 4/27/2015 3:32:29 | 45.28 | 43.38 | 1,012 | 0.35 | 0.32 | 55.3 |
| 4/27/2015 3:32:30 | 45.60 | 43.70 | 1,018 | 0.35 | 0.32 | 55.7 |
| 4/27/2015 3:32:30 | 45.93 | 44.03 | 1,018 | 0.35 | 0.32 | 55.7 |
| 4/27/2015 3:32:30 | 46.26 | 44.36 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 3:32:31 | 46.59 | 44.69 | 1,009 | 0.34 | 0.32 | 55.2 |
| 4/27/2015 3:32:31 | 46.92 | 45.02 | 1,009 | 0.34 | 0.32 | 55.2 |
| 4/27/2015 3:32:31 | 47.24 | 45.34 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 3:32:32 | 47.57 | 45.67 | 1,009 | 0.35 | 0.32 | 55.2 |
| 4/27/2015 3:32:32 | 47.90 | 46.00 | 1,009 | 0.35 | 0.32 | 55.2 |
| 4/27/2015 3:32:32 | 48.23 | 46.33 | 1,003 | 0.33 | 0.34 | 54.8 |
| 4/27/2015 3:32:37 | 48.56 | 46.66 | 0 | 3.64 | 0.36 | 0.0 |
| 4/27/2015 3:32:39 | 48.88 | 46.98 | 116 | 3.57 | 0.40 | 6.3 |
| 4/27/2015 3:32:51 | 49.21 | 47.31 | 21 | 4.20 | 0.40 | 1.2 |
| 4/27/2015 3:32:54 | 49.54 | 47.64 | 3 | 3.53 | 0.36 | 0.2 |
| 4/27/2015 3:32:55 | 49.87 | 47.97 | 179 | 3.35 | 0.36 | 9.8 |
| 4/27/2015 3:32:56 | 50.20 | 48.30 | 294 | 3.50 | 0.37 | 16.1 |
| 4/27/2015 3:33:01 | 50.53 | 48.63 | 9 | 3.77 | 0.37 | 0.5 |
| 4/27/2015 3:33:02 | 50.85 | 48.95 | 183 | 3.41 | 0.38 | 10.0 |
| 4/27/2015 3:33:03 | 51.18 | 49.28 | 324 | 3.43 | 0.38 | 17.7 |
| 4/27/2015 3:33:05 | 51.51 | 49.61 | 196 | 3.37 | 0.40 | 10.7 |
| 4/27/2015 3:33:24 | 51.84 | 49.94 | 0 | 4.66 | 0.41 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:33:26 | 52.17 | 50.27 | 115 | 3.62 | 0.40 | 6.3 |
| 4/27/2015 | 3:33:30 | 52.49 | 50.59 | 104 | 3.60 | 0.40 | 5.7 |
| 4/27/2015 | 3:33:35 | 52.82 | 50.92 | 69 | 3.22 | 0.40 | 3.8 |
| 4/27/2015 | 3:33:40 | 53.15 | 51.25 | 74 | 3.59 | 0.40 | 4.0 |
| 4/27/2015 | 3:33:44 | 53.48 | 51.58 | 81 | 4.10 | 0.40 | 4.5 |
| 4/27/2015 | 3:33:47 | 53.81 | 51.91 | 104 | 3.46 | 0.40 | 5.7 |
| 4/27/2015 | 3:33:52 | 54.13 | 52.23 | 77 | 4.02 | 0.40 | 4.2 |
| 4/27/2015 | 3:33:57 | 54.46 | 52.56 | 63 | 4.02 | 0.40 | 3.5 |
| 4/27/2015 | 3:34:04 | 54.79 | 52.89 | 46 | 3.03 | 0.40 | 2.5 |
| 4/27/2015 | 3:34:10 | 55.12 | 53.22 | 68 | 3.55 | 0.40 | 3.7 |
| 4/27/2015 | 3:34:11 | 55.18 | 53.28 | 59 | 3.18 | 0.40 | 3.2 |

## H257 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:30:36

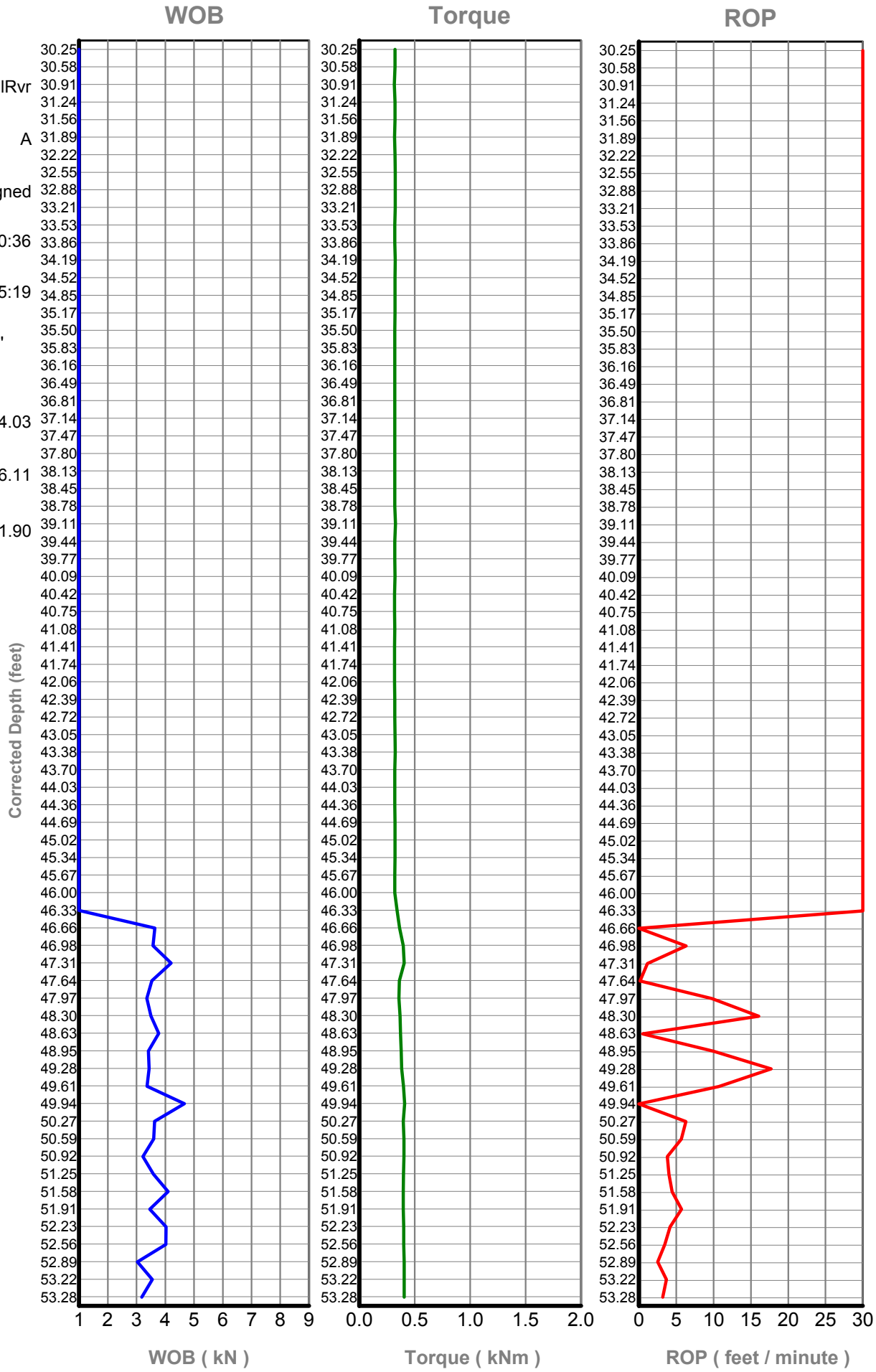
**End Date:**
4/27/2015 3:35:19

**Operator Note:**
'1.9 1.7b Auto Complete'

**Northing:**
365,434.03

**Easting:**
249,506.11

**Tide (feet):**
1.90



## Hole: H258 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:32:32 | 32.15 | 30.25 | 610 | 1.78 | 0.14 | 33.4 |
| 4/27/2015 3:32:33 | 32.48 | 30.58 | 610 | 1.79 | 0.14 | 33.4 |
| 4/27/2015 3:32:33 | 32.81 | 30.91 | 622 | 1.78 | 0.15 | 34.0 |
| 4/27/2015 3:32:34 | 33.14 | 31.24 | 623 | 1.75 | 0.15 | 34.1 |
| 4/27/2015 3:32:34 | 33.46 | 31.56 | 619 | 1.76 | 0.15 | 33.9 |
| 4/27/2015 3:32:35 | 33.79 | 31.89 | 619 | 1.76 | 0.15 | 33.9 |
| 4/27/2015 3:32:35 | 34.12 | 32.22 | 639 | 1.77 | 0.13 | 34.9 |
| 4/27/2015 3:32:36 | 34.45 | 32.55 | 627 | 1.80 | 0.15 | 34.3 |
| 4/27/2015 3:32:37 | 34.78 | 32.88 | 627 | 1.79 | 0.15 | 34.3 |
| 4/27/2015 3:32:37 | 35.11 | 33.21 | 624 | 1.79 | 0.15 | 34.1 |
| 4/27/2015 3:32:38 | 35.43 | 33.53 | 624 | 1.79 | 0.15 | 34.1 |
| 4/27/2015 3:32:39 | 35.76 | 33.86 | 624 | 1.76 | 0.15 | 34.1 |
| 4/27/2015 3:32:39 | 36.09 | 34.19 | 621 | 1.76 | 0.15 | 33.9 |
| 4/27/2015 3:32:40 | 36.42 | 34.52 | 616 | 1.76 | 0.15 | 33.7 |
| 4/27/2015 3:32:40 | 36.75 | 34.85 | 616 | 1.78 | 0.15 | 33.7 |
| 4/27/2015 3:32:41 | 37.07 | 35.17 | 621 | 1.81 | 0.15 | 34.0 |
| 4/27/2015 3:32:41 | 37.40 | 35.50 | 618 | 1.77 | 0.15 | 33.8 |
| 4/27/2015 3:32:42 | 37.73 | 35.83 | 617 | 1.79 | 0.15 | 33.7 |
| 4/27/2015 3:32:42 | 38.06 | 36.16 | 624 | 1.76 | 0.15 | 34.1 |
| 4/27/2015 3:32:43 | 38.39 | 36.49 | 629 | 1.76 | 0.15 | 34.4 |
| 4/27/2015 3:32:44 | 38.71 | 36.81 | 628 | 1.79 | 0.15 | 34.3 |
| 4/27/2015 3:32:44 | 39.04 | 37.14 | 628 | 1.77 | 0.15 | 34.4 |
| 4/27/2015 3:32:45 | 39.37 | 37.47 | 624 | 1.76 | 0.15 | 34.1 |
| 4/27/2015 3:32:45 | 39.70 | 37.80 | 622 | 1.76 | 0.15 | 34.0 |
| 4/27/2015 3:32:46 | 40.03 | 38.13 | 624 | 1.77 | 0.15 | 34.1 |
| 4/27/2015 3:32:47 | 40.35 | 38.45 | 621 | 1.74 | 0.15 | 34.0 |
| 4/27/2015 3:32:47 | 40.68 | 38.78 | 621 | 1.77 | 0.15 | 34.0 |
| 4/27/2015 3:32:48 | 41.01 | 39.11 | 614 | 1.81 | 0.15 | 33.6 |
| 4/27/2015 3:32:48 | 41.34 | 39.44 | 625 | 1.76 | 0.15 | 34.2 |
| 4/27/2015 3:32:49 | 41.67 | 39.77 | 622 | 1.78 | 0.15 | 34.0 |
| 4/27/2015 3:32:50 | 41.99 | 40.09 | 622 | 1.78 | 0.15 | 34.0 |
| 4/27/2015 3:32:50 | 42.32 | 40.42 | 632 | 1.79 | 0.15 | 34.6 |
| 4/27/2015 3:32:51 | 42.65 | 40.75 | 624 | 1.77 | 0.15 | 34.1 |
| 4/27/2015 3:32:51 | 42.98 | 41.08 | 625 | 1.78 | 0.15 | 34.2 |
| 4/27/2015 3:32:52 | 43.31 | 41.41 | 621 | 1.77 | 0.15 | 34.0 |
| 4/27/2015 3:32:52 | 43.64 | 41.74 | 621 | 1.81 | 0.15 | 34.0 |
| 4/27/2015 3:32:53 | 43.96 | 42.06 | 608 | 1.79 | 0.15 | 33.2 |
| 4/27/2015 3:32:53 | 44.29 | 42.39 | 608 | 1.78 | 0.15 | 33.2 |
| 4/27/2015 3:32:54 | 44.62 | 42.72 | 612 | 1.81 | 0.15 | 33.5 |
| 4/27/2015 3:32:55 | 44.95 | 43.05 | 604 | 1.80 | 0.15 | 33.0 |
| 4/27/2015 3:32:55 | 45.28 | 43.38 | 612 | 1.76 | 0.15 | 33.5 |
| 4/27/2015 3:32:56 | 45.60 | 43.70 | 612 | 1.98 | 0.15 | 33.5 |
| 4/27/2015 3:32:56 | 45.93 | 44.03 | 619 | 1.78 | 0.15 | 33.9 |
| 4/27/2015 3:32:57 | 46.26 | 44.36 | 616 | 1.79 | 0.15 | 33.7 |
| 4/27/2015 3:32:58 | 46.59 | 44.69 | 623 | 1.77 | 0.15 | 34.1 |
| 4/27/2015 3:32:58 | 46.92 | 45.02 | 615 | 1.76 | 0.15 | 33.6 |
| 4/27/2015 3:32:59 | 47.24 | 45.34 | 602 | 1.76 | 0.15 | 32.9 |
| 4/27/2015 3:32:59 | 47.57 | 45.67 | 602 | 1.79 | 0.15 | 32.9 |
| 4/27/2015 3:33:00 | 47.90 | 46.00 | 612 | 1.79 | 0.15 | 33.4 |
| 4/27/2015 3:33:01 | 48.23 | 46.33 | 612 | 1.74 | 0.15 | 33.4 |
| 4/27/2015 3:33:15 | 48.56 | 46.66 | 0 | 1.78 | 1.10 | 0.0 |
| 4/27/2015 3:33:16 | 48.88 | 46.98 | 171 | 1.76 | 1.15 | 9.3 |
| 4/27/2015 3:33:23 | 49.21 | 47.31 | 58 | 1.79 | 1.21 | 3.2 |
| 4/27/2015 3:33:26 | 49.54 | 47.64 | 113 | 1.74 | 1.07 | 6.2 |
| 4/27/2015 3:33:32 | 49.87 | 47.97 | 0 | 1.77 | 1.09 | 0.0 |
| 4/27/2015 3:33:33 | 50.20 | 48.30 | 102 | 1.77 | 1.06 | 5.6 |
| 4/27/2015 3:33:35 | 50.53 | 48.63 | 269 | 1.75 | 1.14 | 14.7 |
| 4/27/2015 3:33:58 | 50.85 | 48.95 | 24 | 1.76 | 1.54 | 1.3 |
| 4/27/2015 3:34:00 | 51.18 | 49.28 | 153 | 1.75 | 1.56 | 8.4 |
| 4/27/2015 3:34:02 | 51.51 | 49.61 | 211 | 1.78 | 1.47 | 11.5 |
| 4/27/2015 3:34:03 | 51.84 | 49.94 | 205 | 1.79 | 1.13 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:34:05 | 52.17 | 50.27 | 223 | 1.79 | 1.21 | 12.2 |
| 4/27/2015 | 3:34:16 | 52.49 | 50.59 | 46 | 1.76 | 1.08 | 2.5 |
| 4/27/2015 | 3:34:17 | 52.82 | 50.92 | 194 | 1.77 | 1.15 | 10.6 |
| 4/27/2015 | 3:34:18 | 53.15 | 51.25 | 251 | 1.76 | 1.07 | 13.7 |
| 4/27/2015 | 3:34:32 | 53.48 | 51.58 | 61 | 1.80 | 1.20 | 3.3 |
| 4/27/2015 | 3:34:37 | 53.81 | 51.91 | 62 | 1.80 | 1.07 | 3.4 |
| 4/27/2015 | 3:34:42 | 54.13 | 52.23 | 84 | 1.80 | 1.13 | 4.6 |
| 4/27/2015 | 3:34:47 | 54.46 | 52.56 | 52 | 1.80 | 1.11 | 2.8 |
| 4/27/2015 | 3:34:55 | 54.79 | 52.89 | 35 | 1.81 | 1.07 | 1.9 |
| 4/27/2015 | 3:35:06 | 55.12 | 53.22 | 36 | 1.79 | 1.08 | 2.0 |
| 4/27/2015 | 3:35:14 | 55.39 | 53.49 | 35 | 1.81 | 1.09 | 1.9 |

## H258 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:31:11

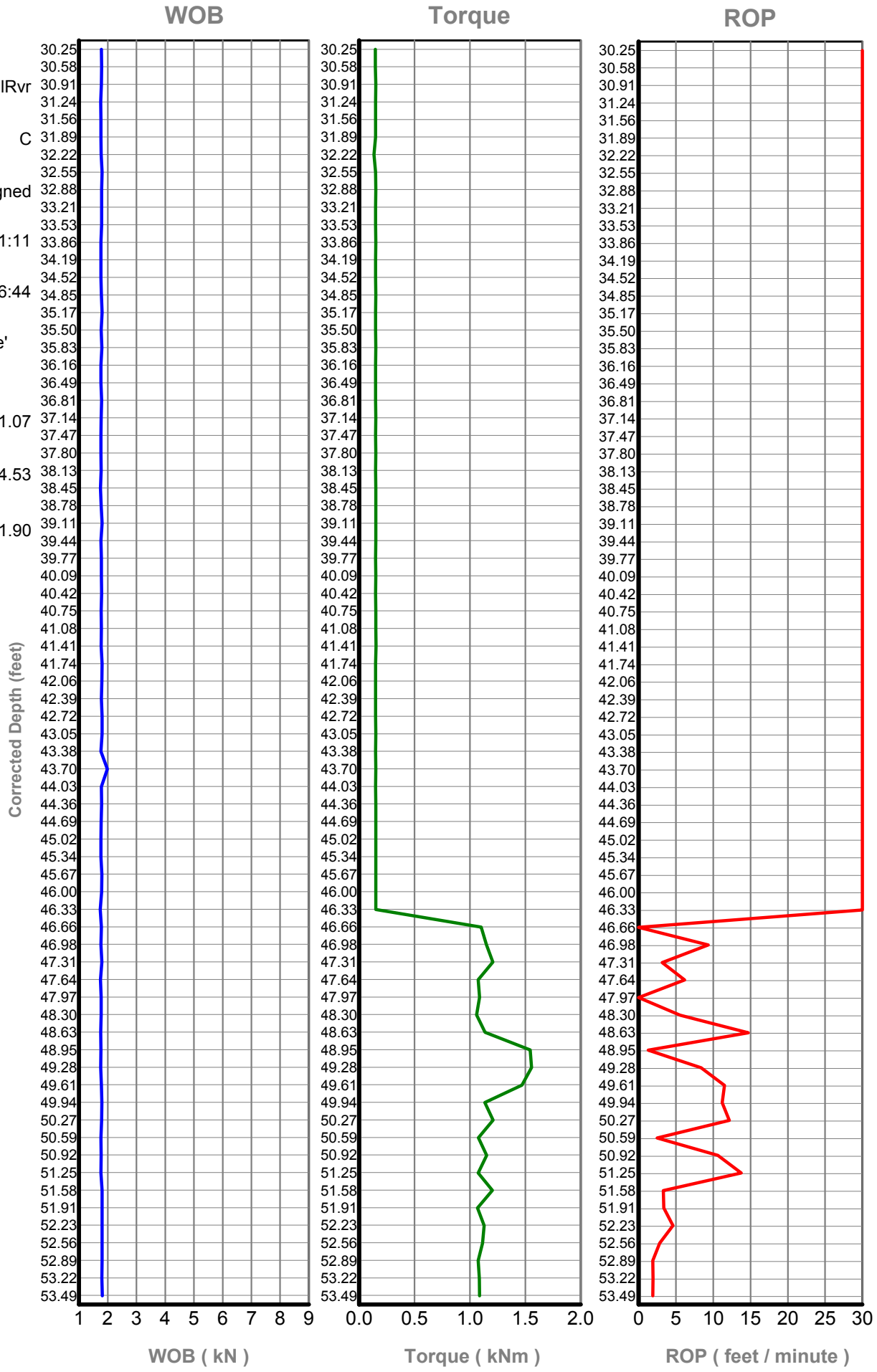
**End Date:**
4/27/2015 3:36:44

**Operator Note:**
'1.9 1.7 c Auto Complete'

**Northing:**
365,481.07

**Easting:**
249,564.53

**Tide (feet):**
1.90



## Hole: H259 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:34:09 | 32.15 | 30.15 | 1,044 | 1.76 | 0.31 | 57.1 |
| 4/27/2015 1:34:10 | 32.48 | 30.48 | 1,044 | 1.76 | 0.32 | 57.1 |
| 4/27/2015 1:34:10 | 32.81 | 30.81 | 1,044 | 1.76 | 0.32 | 57.1 |
| 4/27/2015 1:34:10 | 33.14 | 31.14 | 1,046 | 1.78 | 0.31 | 57.2 |
| 4/27/2015 1:34:11 | 33.46 | 31.46 | 1,046 | 1.77 | 0.30 | 57.2 |
| 4/27/2015 1:34:11 | 33.79 | 31.79 | 1,046 | 1.77 | 0.30 | 57.2 |
| 4/27/2015 1:34:11 | 34.12 | 32.12 | 1,049 | 1.76 | 0.31 | 57.4 |
| 4/27/2015 1:34:12 | 34.45 | 32.45 | 1,040 | 1.76 | 0.31 | 56.9 |
| 4/27/2015 1:34:12 | 34.78 | 32.78 | 1,040 | 1.76 | 0.31 | 56.9 |
| 4/27/2015 1:34:12 | 35.11 | 33.11 | 1,049 | 1.73 | 0.31 | 57.4 |
| 4/27/2015 1:34:13 | 35.43 | 33.43 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:13 | 35.76 | 33.76 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:13 | 36.09 | 34.09 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:14 | 36.42 | 34.42 | 1,032 | 1.77 | 0.30 | 56.4 |
| 4/27/2015 1:34:14 | 36.75 | 34.75 | 1,032 | 1.77 | 0.30 | 56.4 |
| 4/27/2015 1:34:14 | 37.07 | 35.07 | 1,041 | 1.76 | 0.31 | 56.9 |
| 4/27/2015 1:34:15 | 37.40 | 35.40 | 1,038 | 1.76 | 0.31 | 56.8 |
| 4/27/2015 1:34:15 | 37.73 | 35.73 | 1,038 | 1.76 | 0.31 | 56.8 |
| 4/27/2015 1:34:15 | 38.06 | 36.06 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:16 | 38.39 | 36.39 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:16 | 38.71 | 36.71 | 1,038 | 1.77 | 0.31 | 56.7 |
| 4/27/2015 1:34:16 | 39.04 | 37.04 | 1,050 | 1.78 | 0.31 | 57.4 |
| 4/27/2015 1:34:17 | 39.37 | 37.37 | 1,050 | 1.78 | 0.31 | 57.4 |
| 4/27/2015 1:34:17 | 39.70 | 37.70 | 1,041 | 1.77 | 0.30 | 56.9 |
| 4/27/2015 1:34:17 | 40.03 | 38.03 | 1,041 | 1.77 | 0.31 | 56.9 |
| 4/27/2015 1:34:18 | 40.35 | 38.35 | 1,041 | 1.77 | 0.31 | 56.9 |
| 4/27/2015 1:34:18 | 40.68 | 38.68 | 1,041 | 1.76 | 0.31 | 56.9 |
| 4/27/2015 1:34:19 | 41.01 | 39.01 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:19 | 41.34 | 39.34 | 1,041 | 1.76 | 0.30 | 56.9 |
| 4/27/2015 1:34:19 | 41.67 | 39.67 | 1,041 | 1.76 | 0.31 | 56.9 |
| 4/27/2015 1:34:20 | 41.99 | 39.99 | 1,041 | 1.77 | 0.30 | 56.9 |
| 4/27/2015 1:34:20 | 42.32 | 40.32 | 1,041 | 1.77 | 0.30 | 56.9 |
| 4/27/2015 1:34:20 | 42.65 | 40.65 | 1,034 | 1.76 | 0.30 | 56.6 |
| 4/27/2015 1:34:21 | 42.98 | 40.98 | 1,026 | 1.76 | 0.30 | 56.1 |
| 4/27/2015 1:34:21 | 43.31 | 41.31 | 1,026 | 1.76 | 0.30 | 56.1 |
| 4/27/2015 1:34:21 | 43.64 | 41.64 | 1,026 | 1.76 | 0.31 | 56.1 |
| 4/27/2015 1:34:22 | 43.96 | 41.96 | 1,034 | 1.77 | 0.31 | 56.6 |
| 4/27/2015 1:34:22 | 44.29 | 42.29 | 1,034 | 1.77 | 0.31 | 56.6 |
| 4/27/2015 1:34:22 | 44.62 | 42.62 | 1,031 | 1.76 | 0.30 | 56.4 |
| 4/27/2015 1:34:23 | 44.95 | 42.95 | 1,037 | 1.76 | 0.31 | 56.7 |
| 4/27/2015 1:34:23 | 45.28 | 43.28 | 1,037 | 1.76 | 0.31 | 56.7 |
| 4/27/2015 1:34:23 | 45.60 | 43.60 | 1,035 | 1.77 | 0.31 | 56.6 |
| 4/27/2015 1:34:24 | 45.93 | 43.93 | 1,046 | 1.76 | 0.31 | 57.2 |
| 4/27/2015 1:34:24 | 46.26 | 44.26 | 1,046 | 1.76 | 0.31 | 57.2 |
| 4/27/2015 1:34:24 | 46.59 | 44.59 | 1,035 | 1.78 | 0.32 | 56.6 |
| 4/27/2015 1:34:25 | 46.92 | 44.92 | 1,038 | 1.77 | 0.30 | 56.8 |
| 4/27/2015 1:34:25 | 47.24 | 45.24 | 1,038 | 1.77 | 0.30 | 56.8 |
| 4/27/2015 1:34:25 | 47.57 | 45.57 | 1,029 | 1.78 | 0.30 | 56.2 |
| 4/27/2015 1:34:26 | 47.90 | 45.90 | 1,032 | 1.76 | 0.31 | 56.4 |
| 4/27/2015 1:34:26 | 48.23 | 46.23 | 1,032 | 1.76 | 0.31 | 56.4 |
| 4/27/2015 1:34:26 | 48.56 | 46.56 | 1,015 | 1.89 | 0.34 | 55.5 |
| 4/27/2015 1:34:42 | 48.88 | 46.88 | 0 | 3.24 | 0.33 | 0.0 |
| 4/27/2015 1:34:42 | 49.21 | 47.21 | 91 | 6.45 | 0.35 | 5.0 |
| 4/27/2015 1:34:44 | 49.54 | 47.54 | 306 | 3.15 | 0.37 | 16.7 |
| 4/27/2015 1:34:47 | 49.87 | 47.87 | 142 | 5.82 | 0.38 | 7.8 |
| 4/27/2015 1:34:57 | 50.20 | 48.20 | 20 | 3.94 | 0.38 | 1.1 |
| 4/27/2015 1:34:58 | 50.53 | 48.53 | 87 | 4.96 | 0.36 | 4.7 |
| 4/27/2015 1:34:59 | 50.85 | 48.85 | 243 | 3.44 | 0.35 | 13.3 |
| 4/27/2015 1:35:04 | 51.18 | 49.18 | 38 | 4.42 | 0.38 | 2.1 |
| 4/27/2015 1:35:05 | 51.51 | 49.51 | 164 | 3.75 | 0.36 | 9.0 |
| 4/27/2015 1:35:06 | 51.84 | 49.84 | 289 | 3.07 | 0.35 | 15.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:35:20 | 52.17 | 50.17 | 0 | 2.78 | 0.35 | 0.0 |
| 4/27/2015 | 1:35:22 | 52.49 | 50.49 | 140 | 3.22 | 0.38 | 7.7 |
| 4/27/2015 | 1:35:24 | 52.82 | 50.82 | 134 | 3.98 | 0.40 | 7.3 |
| 4/27/2015 | 1:35:30 | 53.15 | 51.15 | 58 | 3.28 | 0.40 | 3.2 |
| 4/27/2015 | 1:35:35 | 53.48 | 51.48 | 76 | 3.97 | 0.39 | 4.2 |
| 4/27/2015 | 1:35:40 | 53.81 | 51.81 | 64 | 3.74 | 0.40 | 3.5 |
| 4/27/2015 | 1:35:47 | 54.13 | 52.13 | 52 | 3.10 | 0.48 | 2.8 |
| 4/27/2015 | 1:35:55 | 54.46 | 52.46 | 47 | 2.94 | 0.39 | 2.6 |
| 4/27/2015 | 1:36:01 | 54.79 | 52.79 | 52 | 3.24 | 0.40 | 2.8 |
| 4/27/2015 | 1:36:04 | 54.91 | 52.91 | 52 | 3.22 | 0.40 | 2.8 |

## H259 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:32:19

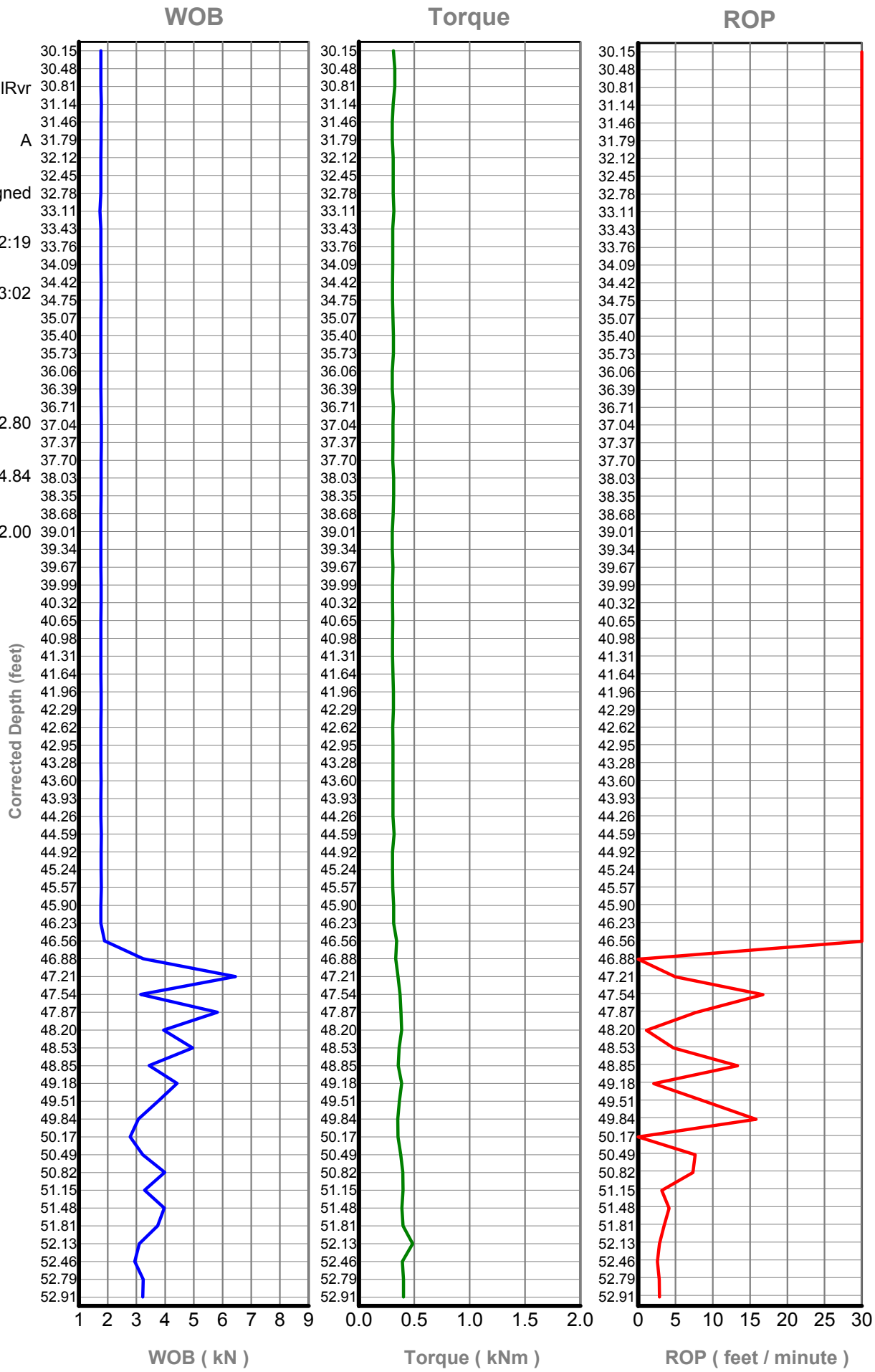
**End Date:**
4/27/2015 1:43:02

**Operator Note:**
'2 2.2 b Auto Complete'

**Northing:**
365,542.80

**Easting:**
249,634.84

**Tide (feet):**
2.00



## Hole: H26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 11:31:53 | 32.15 | 30.15 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 11:31:53 | 32.48 | 30.48 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 11:31:53 | 32.81 | 30.81 | 996 | 0.31 | 0.31 | 54.5 |
| 4/25/2015 11:31:54 | 33.14 | 31.14 | 996 | 0.30 | 0.31 | 54.5 |
| 4/25/2015 11:31:54 | 33.46 | 31.46 | 996 | 0.30 | 0.31 | 54.5 |
| 4/25/2015 11:31:54 | 33.79 | 31.79 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 11:31:55 | 34.12 | 32.12 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/25/2015 11:31:55 | 34.45 | 32.45 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/25/2015 11:31:55 | 34.78 | 32.78 | 1,027 | 0.30 | 0.31 | 56.2 |
| 4/25/2015 11:31:56 | 35.11 | 33.11 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/25/2015 11:31:56 | 35.43 | 33.43 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/25/2015 11:31:56 | 35.76 | 33.76 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/25/2015 11:31:57 | 36.09 | 34.09 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 11:31:57 | 36.42 | 34.42 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 11:31:57 | 36.75 | 34.75 | 1,023 | 0.30 | 0.31 | 56.0 |
| 4/25/2015 11:31:58 | 37.07 | 35.07 | 1,017 | 0.30 | 0.31 | 55.6 |
| 4/25/2015 11:31:58 | 37.40 | 35.40 | 1,017 | 0.30 | 0.31 | 55.6 |
| 4/25/2015 11:31:58 | 37.73 | 35.73 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/25/2015 11:31:59 | 38.06 | 36.06 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/25/2015 11:31:59 | 38.39 | 36.39 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/25/2015 11:31:59 | 38.71 | 36.71 | 1,032 | 0.29 | 0.31 | 56.4 |
| 4/25/2015 11:32:00 | 39.04 | 37.04 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/25/2015 11:32:00 | 39.37 | 37.37 | 1,029 | 0.30 | 0.31 | 56.3 |
| 4/25/2015 11:32:00 | 39.70 | 37.70 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 11:32:01 | 40.03 | 38.03 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 11:32:02 | 40.35 | 38.35 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 11:32:02 | 40.68 | 38.68 | 1,029 | 0.29 | 0.32 | 56.3 |
| 4/25/2015 11:32:02 | 41.01 | 39.01 | 1,001 | 0.29 | 0.38 | 54.7 |
| 4/25/2015 11:32:12 | 41.34 | 39.34 | 9 | 3.82 | 0.38 | 0.5 |
| 4/25/2015 11:32:13 | 41.67 | 39.67 | 155 | 3.60 | 0.35 | 8.5 |
| 4/25/2015 11:32:14 | 41.99 | 39.99 | 220 | 5.05 | 0.38 | 12.0 |
| 4/25/2015 11:32:16 | 42.32 | 40.32 | 322 | 4.11 | 0.38 | 17.6 |
| 4/25/2015 11:32:17 | 42.65 | 40.65 | 262 | 3.23 | 0.37 | 14.3 |
| 4/25/2015 11:32:22 | 42.98 | 40.98 | 101 | 3.67 | 0.38 | 5.5 |
| 4/25/2015 11:32:23 | 43.31 | 41.31 | 130 | 3.37 | 0.38 | 7.1 |
| 4/25/2015 11:32:25 | 43.64 | 41.64 | 207 | 3.90 | 0.38 | 11.3 |
| 4/25/2015 11:32:26 | 43.96 | 41.96 | 216 | 2.83 | 0.36 | 11.8 |
| 4/25/2015 11:34:57 | 44.29 | 42.29 | 15 | 3.93 | 0.36 | 0.8 |
| 4/25/2015 11:34:59 | 44.62 | 42.62 | 133 | 2.59 | 0.36 | 7.3 |
| 4/25/2015 11:35:00 | 44.95 | 42.95 | 254 | 5.47 | 0.38 | 13.9 |
| 4/25/2015 11:35:01 | 45.28 | 43.28 | 283 | 5.28 | 0.37 | 15.5 |
| 4/25/2015 11:35:06 | 45.60 | 43.60 | 28 | 4.53 | 0.37 | 1.5 |
| 4/25/2015 11:35:07 | 45.93 | 43.93 | 126 | 3.77 | 0.36 | 6.9 |
| 4/25/2015 11:35:09 | 46.26 | 44.26 | 230 | 2.12 | 0.35 | 12.6 |
| 4/25/2015 11:35:09 | 46.59 | 44.59 | 330 | 2.50 | 0.36 | 18.0 |
| 4/25/2015 11:35:16 | 46.92 | 44.92 | 23 | 2.78 | 0.36 | 1.3 |
| 4/25/2015 11:35:17 | 47.24 | 45.24 | 156 | 2.34 | 0.36 | 8.6 |
| 4/25/2015 11:35:19 | 47.57 | 45.57 | 281 | 2.35 | 0.37 | 15.4 |
| 4/25/2015 11:35:21 | 47.90 | 45.90 | 308 | 2.41 | 0.35 | 16.8 |
| 4/25/2015 11:35:22 | 48.23 | 46.23 | 308 | 2.41 | 0.35 | 16.8 |
| 4/25/2015 11:35:21 | 48.56 | 46.56 | 348 | 4.45 | 0.36 | 19.0 |
| 4/25/2015 11:35:24 | 48.88 | 46.88 | 89 | 2.90 | 0.36 | 4.9 |
| 4/25/2015 11:35:25 | 49.21 | 47.21 | 165 | 2.42 | 0.35 | 9.0 |
| 4/25/2015 11:35:26 | 49.54 | 47.54 | 337 | 3.04 | 0.36 | 18.4 |
| 4/25/2015 11:35:29 | 49.87 | 47.87 | 6 | 5.01 | 0.37 | 0.3 |
| 4/25/2015 11:35:38 | 50.20 | 48.20 | 54 | 4.19 | 0.37 | 3.0 |
| 4/25/2015 11:35:39 | 50.53 | 48.53 | 179 | 3.20 | 0.36 | 9.8 |
| 4/25/2015 11:35:40 | 50.85 | 48.85 | 301 | 3.24 | 0.36 | 16.5 |
| 4/25/2015 11:35:41 | 51.18 | 49.18 | 344 | 2.50 | 0.36 | 18.8 |
| 4/25/2015 11:35:42 | 51.51 | 49.51 | 367 | 2.70 | 0.36 | 20.1 |
| 4/25/2015 11:35:44 | 51.84 | 49.84 | 212 | 2.58 | 0.35 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 11:35:46 | 52.17 | 50.17 | 138 | 2.99 | 0.37 | 7.5 |
| 4/25/2015 | 11:35:47 | 52.49 | 50.49 | 264 | 3.26 | 0.37 | 14.4 |
| 4/25/2015 | 11:35:52 | 52.82 | 50.82 | 96 | 3.26 | 0.37 | 5.3 |
| 4/25/2015 | 11:35:55 | 53.15 | 51.15 | 99 | 2.78 | 0.35 | 5.4 |
| 4/25/2015 | 11:35:55 | 53.27 | 51.27 | 70 | 3.39 | 0.39 | 3.8 |

## H26 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 11:29:21

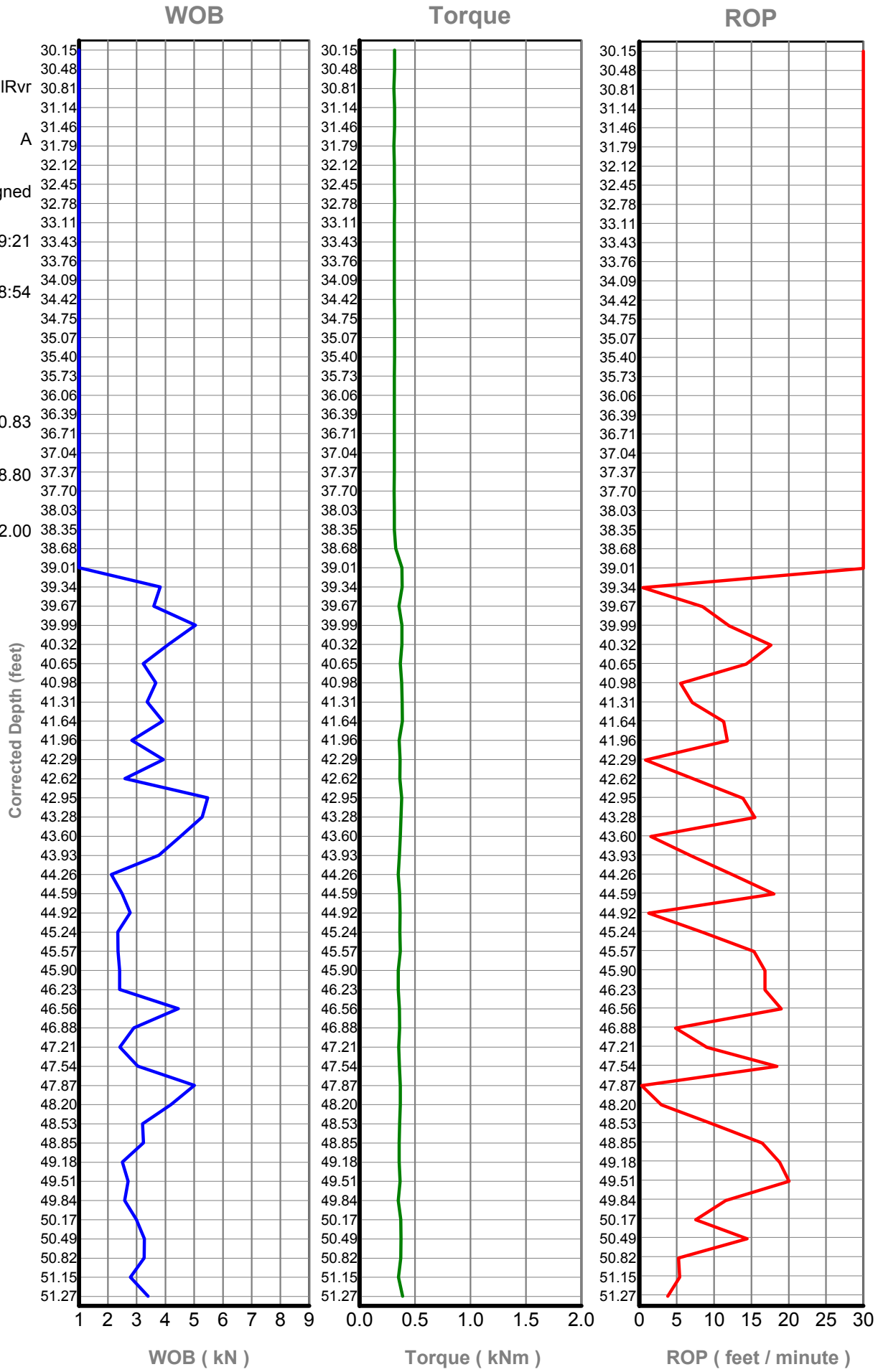
**End Date:**
4/25/2015 11:38:54

**Operator Note:**
'2 2.0 b Auto Complete'

**Northing:**
366,770.83

**Easting:**
250,458.80

**Tide (feet):**
2.00



## Hole: H260 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:39:24 | 32.15 | 30.25 | 593 | 1.77 | 0.15 | 32.4 |
| 4/27/2015 1:39:24 | 32.48 | 30.58 | 596 | 1.81 | 0.15 | 32.6 |
| 4/27/2015 1:39:25 | 32.81 | 30.91 | 599 | 1.80 | 0.15 | 32.8 |
| 4/27/2015 1:39:25 | 33.14 | 31.24 | 596 | 1.80 | 0.15 | 32.6 |
| 4/27/2015 1:39:26 | 33.46 | 31.56 | 596 | 1.80 | 0.15 | 32.6 |
| 4/27/2015 1:39:27 | 33.79 | 31.89 | 596 | 1.79 | 0.16 | 32.6 |
| 4/27/2015 1:39:27 | 34.12 | 32.22 | 596 | 1.81 | 0.15 | 32.6 |
| 4/27/2015 1:39:28 | 34.45 | 32.55 | 593 | 1.76 | 0.15 | 32.4 |
| 4/27/2015 1:39:28 | 34.78 | 32.88 | 606 | 1.79 | 0.15 | 33.1 |
| 4/27/2015 1:39:29 | 35.11 | 33.21 | 593 | 1.79 | 0.15 | 32.4 |
| 4/27/2015 1:39:30 | 35.43 | 33.53 | 580 | 1.81 | 0.15 | 31.7 |
| 4/27/2015 1:39:30 | 35.76 | 33.86 | 580 | 1.76 | 0.16 | 31.7 |
| 4/27/2015 1:39:31 | 36.09 | 34.19 | 581 | 1.77 | 0.15 | 31.8 |
| 4/27/2015 1:39:32 | 36.42 | 34.52 | 590 | 1.78 | 0.17 | 32.3 |
| 4/27/2015 1:39:32 | 36.75 | 34.85 | 574 | 1.76 | 0.15 | 31.4 |
| 4/27/2015 1:39:33 | 37.07 | 35.17 | 574 | 1.70 | 0.15 | 31.4 |
| 4/27/2015 1:39:33 | 37.40 | 35.50 | 588 | 1.77 | 0.16 | 32.2 |
| 4/27/2015 1:39:34 | 37.73 | 35.83 | 591 | 1.77 | 0.15 | 32.3 |
| 4/27/2015 1:39:35 | 38.06 | 36.16 | 590 | 1.78 | 0.16 | 32.2 |
| 4/27/2015 1:39:35 | 38.39 | 36.49 | 579 | 1.80 | 0.15 | 31.6 |
| 4/27/2015 1:39:36 | 38.71 | 36.81 | 595 | 1.80 | 0.15 | 32.6 |
| 4/27/2015 1:39:36 | 39.04 | 37.14 | 578 | 1.77 | 0.15 | 31.6 |
| 4/27/2015 1:39:37 | 39.37 | 37.47 | 588 | 1.79 | 0.15 | 32.1 |
| 4/27/2015 1:39:37 | 39.70 | 37.80 | 588 | 1.77 | 0.15 | 32.2 |
| 4/27/2015 1:39:38 | 40.03 | 38.13 | 586 | 1.79 | 0.15 | 32.1 |
| 4/27/2015 1:39:39 | 40.35 | 38.45 | 592 | 1.82 | 0.16 | 32.4 |
| 4/27/2015 1:39:40 | 40.68 | 38.78 | 584 | 1.73 | 0.15 | 31.9 |
| 4/27/2015 1:39:40 | 41.01 | 39.11 | 588 | 1.79 | 0.16 | 32.2 |
| 4/27/2015 1:39:41 | 41.34 | 39.44 | 588 | 1.76 | 0.16 | 32.2 |
| 4/27/2015 1:39:41 | 41.67 | 39.77 | 591 | 1.80 | 0.16 | 32.3 |
| 4/27/2015 1:39:42 | 41.99 | 40.09 | 591 | 1.81 | 0.16 | 32.3 |
| 4/27/2015 1:39:43 | 42.32 | 40.42 | 584 | 1.77 | 0.16 | 31.9 |
| 4/27/2015 1:39:43 | 42.65 | 40.75 | 584 | 1.81 | 0.16 | 31.9 |
| 4/27/2015 1:39:44 | 42.98 | 41.08 | 580 | 1.78 | 0.16 | 31.7 |
| 4/27/2015 1:39:44 | 43.31 | 41.41 | 581 | 1.78 | 0.16 | 31.8 |
| 4/27/2015 1:39:45 | 43.64 | 41.74 | 581 | 1.76 | 0.16 | 31.8 |
| 4/27/2015 1:39:45 | 43.96 | 42.06 | 591 | 1.79 | 0.16 | 32.3 |
| 4/27/2015 1:39:46 | 44.29 | 42.39 | 591 | 1.77 | 0.16 | 32.3 |
| 4/27/2015 1:39:47 | 44.62 | 42.72 | 592 | 1.78 | 0.15 | 32.4 |
| 4/27/2015 1:39:47 | 44.95 | 43.05 | 592 | 1.76 | 0.16 | 32.4 |
| 4/27/2015 1:39:48 | 45.28 | 43.38 | 593 | 1.78 | 0.16 | 32.4 |
| 4/27/2015 1:39:48 | 45.60 | 43.70 | 589 | 1.80 | 0.16 | 32.2 |
| 4/27/2015 1:39:49 | 45.93 | 44.03 | 596 | 1.77 | 0.16 | 32.6 |
| 4/27/2015 1:39:50 | 46.26 | 44.36 | 592 | 1.79 | 0.16 | 32.4 |
| 4/27/2015 1:39:51 | 46.59 | 44.69 | 590 | 1.81 | 0.16 | 32.2 |
| 4/27/2015 1:39:51 | 46.92 | 45.02 | 586 | 1.80 | 0.16 | 32.0 |
| 4/27/2015 1:39:52 | 47.24 | 45.34 | 586 | 1.77 | 0.16 | 32.0 |
| 4/27/2015 1:39:53 | 47.57 | 45.67 | 587 | 1.79 | 0.16 | 32.1 |
| 4/27/2015 1:39:54 | 47.90 | 46.00 | 587 | 1.79 | 0.16 | 32.1 |
| 4/27/2015 1:39:54 | 48.23 | 46.33 | 590 | 1.76 | 0.16 | 32.2 |
| 4/27/2015 1:39:54 | 48.56 | 46.66 | 590 | 1.78 | 0.16 | 32.3 |
| 4/27/2015 1:39:55 | 48.88 | 46.98 | 591 | 1.73 | 0.16 | 32.3 |
| 4/27/2015 1:40:10 | 49.21 | 47.31 | 35 | 1.77 | 1.07 | 1.9 |
| 4/27/2015 1:40:12 | 49.54 | 47.64 | 211 | 1.68 | 0.95 | 11.5 |
| 4/27/2015 1:40:22 | 49.87 | 47.97 | 25 | 1.76 | 1.15 | 1.3 |
| 4/27/2015 1:40:38 | 50.20 | 48.30 | 33 | 1.79 | 1.05 | 1.8 |
| 4/27/2015 1:40:47 | 50.53 | 48.63 | 42 | 1.77 | 1.14 | 2.3 |
| 4/27/2015 1:40:56 | 50.85 | 48.95 | 38 | 1.79 | 1.06 | 2.1 |
| 4/27/2015 1:41:04 | 51.09 | 49.19 | 32 | 1.75 | 1.07 | 1.8 |

## H260 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:37:48

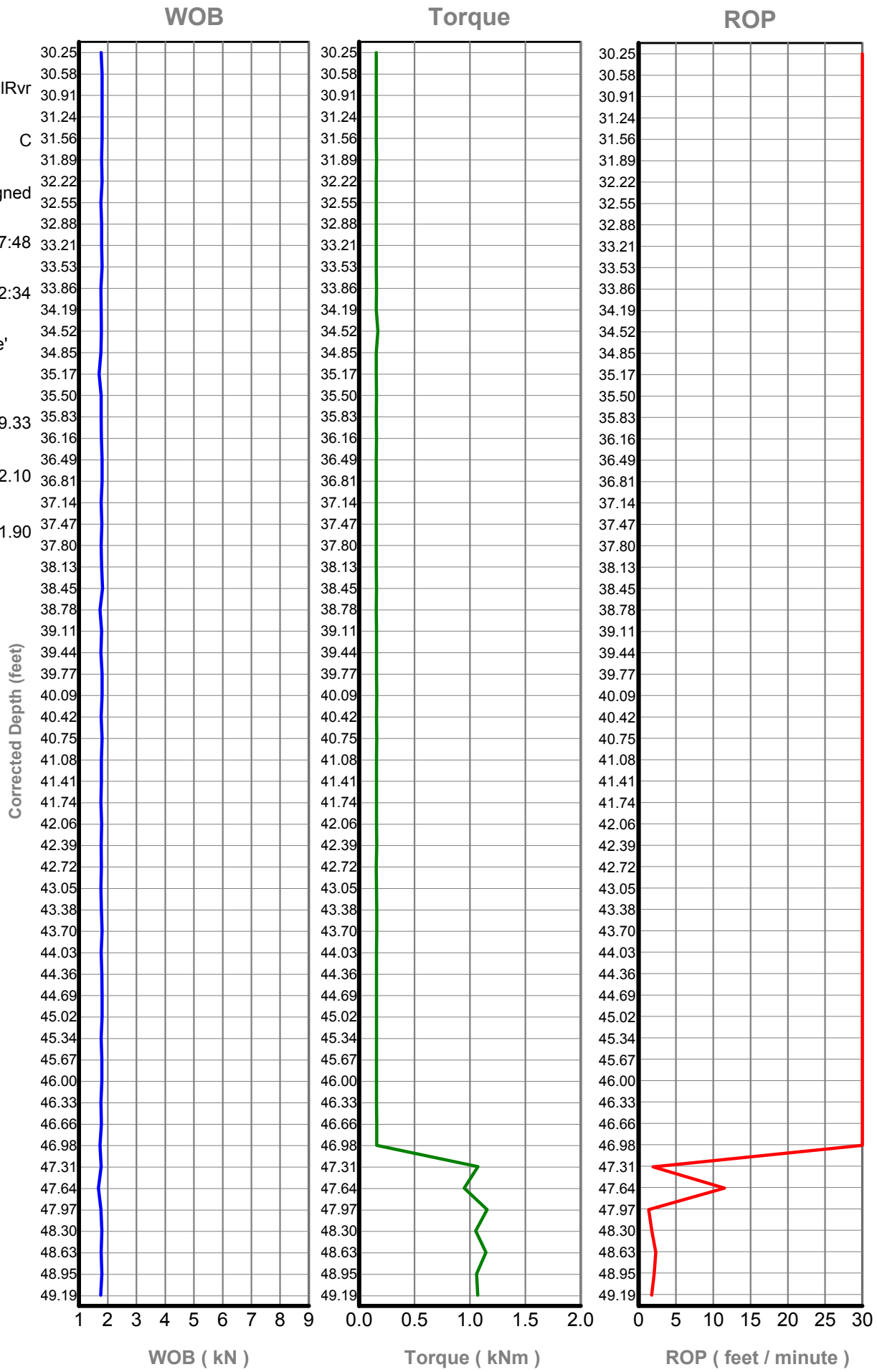
**End Date:**
4/27/2015 1:42:34

**Operator Note:**
'1.9 2.0 c Auto Complete'

**Northing:**
365,579.33

**Easting:**
249,682.10

**Tide (feet):**
1.90



## Hole: H261 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:33:53 | 32.15 | 30.15 | 533 | 1.79 | 0.15 | 29.1 |
| 4/27/2015 1:33:53 | 32.48 | 30.48 | 533 | 1.79 | 0.15 | 29.1 |
| 4/27/2015 1:33:54 | 32.81 | 30.81 | 541 | 1.80 | 0.15 | 29.6 |
| 4/27/2015 1:33:55 | 33.14 | 31.14 | 541 | 1.79 | 0.15 | 29.6 |
| 4/27/2015 1:33:55 | 33.46 | 31.46 | 539 | 1.77 | 0.15 | 29.5 |
| 4/27/2015 1:33:56 | 33.79 | 31.79 | 558 | 1.80 | 0.15 | 30.5 |
| 4/27/2015 1:33:57 | 34.12 | 32.12 | 546 | 1.77 | 0.15 | 29.9 |
| 4/27/2015 1:33:58 | 34.45 | 32.45 | 546 | 1.76 | 0.15 | 29.9 |
| 4/27/2015 1:33:58 | 34.78 | 32.78 | 543 | 1.75 | 0.16 | 29.7 |
| 4/27/2015 1:33:59 | 35.11 | 33.11 | 543 | 1.75 | 0.15 | 29.7 |
| 4/27/2015 1:34:00 | 35.43 | 33.43 | 546 | 1.77 | 0.16 | 29.9 |
| 4/27/2015 1:34:00 | 35.76 | 33.76 | 544 | 1.79 | 0.15 | 29.7 |
| 4/27/2015 1:34:01 | 36.09 | 34.09 | 546 | 1.79 | 0.16 | 29.9 |
| 4/27/2015 1:34:02 | 36.42 | 34.42 | 544 | 1.81 | 0.16 | 29.7 |
| 4/27/2015 1:34:02 | 36.75 | 34.75 | 537 | 1.75 | 0.15 | 29.4 |
| 4/27/2015 1:34:03 | 37.07 | 35.07 | 544 | 1.76 | 0.15 | 29.7 |
| 4/27/2015 1:34:03 | 37.40 | 35.40 | 541 | 1.74 | 0.15 | 29.6 |
| 4/27/2015 1:34:04 | 37.73 | 35.73 | 529 | 1.79 | 0.15 | 28.9 |
| 4/27/2015 1:34:05 | 38.06 | 36.06 | 536 | 1.78 | 0.15 | 29.3 |
| 4/27/2015 1:34:05 | 38.39 | 36.39 | 539 | 1.79 | 0.15 | 29.5 |
| 4/27/2015 1:34:06 | 38.71 | 36.71 | 532 | 1.76 | 0.15 | 29.1 |
| 4/27/2015 1:34:07 | 39.04 | 37.04 | 532 | 1.77 | 0.15 | 29.1 |
| 4/27/2015 1:34:08 | 39.37 | 37.37 | 525 | 1.79 | 0.15 | 28.7 |
| 4/27/2015 1:34:08 | 39.70 | 37.70 | 525 | 1.78 | 0.15 | 28.7 |
| 4/27/2015 1:34:09 | 40.03 | 38.03 | 541 | 1.77 | 0.15 | 29.6 |
| 4/27/2015 1:34:10 | 40.35 | 38.35 | 535 | 1.76 | 0.16 | 29.3 |
| 4/27/2015 1:34:10 | 40.68 | 38.68 | 535 | 1.76 | 0.15 | 29.3 |
| 4/27/2015 1:34:11 | 41.01 | 39.01 | 549 | 1.79 | 0.15 | 30.0 |
| 4/27/2015 1:34:12 | 41.34 | 39.34 | 547 | 1.81 | 0.16 | 29.9 |
| 4/27/2015 1:34:12 | 41.67 | 39.67 | 526 | 1.74 | 0.15 | 28.8 |
| 4/27/2015 1:34:13 | 41.99 | 39.99 | 542 | 1.78 | 0.15 | 29.6 |
| 4/27/2015 1:34:13 | 42.32 | 40.32 | 542 | 1.74 | 0.15 | 29.6 |
| 4/27/2015 1:34:14 | 42.65 | 40.65 | 533 | 1.80 | 0.15 | 29.1 |
| 4/27/2015 1:34:15 | 42.98 | 40.98 | 533 | 1.79 | 0.15 | 29.1 |
| 4/27/2015 1:34:15 | 43.31 | 41.31 | 530 | 1.80 | 0.15 | 29.0 |
| 4/27/2015 1:34:16 | 43.64 | 41.64 | 530 | 1.76 | 0.15 | 29.0 |
| 4/27/2015 1:34:17 | 43.96 | 41.96 | 525 | 1.79 | 0.16 | 28.7 |
| 4/27/2015 1:34:18 | 44.29 | 42.29 | 540 | 1.76 | 0.15 | 29.5 |
| 4/27/2015 1:34:18 | 44.62 | 42.62 | 528 | 1.76 | 0.15 | 28.9 |
| 4/27/2015 1:34:19 | 44.95 | 42.95 | 536 | 1.77 | 0.15 | 29.3 |
| 4/27/2015 1:34:20 | 45.28 | 43.28 | 535 | 1.77 | 0.15 | 29.3 |
| 4/27/2015 1:34:20 | 45.60 | 43.60 | 525 | 1.76 | 0.15 | 28.7 |
| 4/27/2015 1:34:21 | 45.93 | 43.93 | 535 | 1.75 | 0.15 | 29.2 |
| 4/27/2015 1:34:22 | 46.26 | 44.26 | 538 | 1.76 | 0.15 | 29.4 |
| 4/27/2015 1:34:22 | 46.59 | 44.59 | 538 | 1.77 | 0.14 | 29.4 |
| 4/27/2015 1:34:23 | 46.92 | 44.92 | 539 | 1.76 | 0.15 | 29.5 |
| 4/27/2015 1:34:24 | 47.24 | 45.24 | 538 | 1.80 | 0.15 | 29.4 |
| 4/27/2015 1:34:24 | 47.57 | 45.57 | 535 | 1.79 | 0.15 | 29.2 |
| 4/27/2015 1:34:25 | 47.90 | 45.90 | 535 | 1.76 | 0.15 | 29.2 |
| 4/27/2015 1:34:25 | 48.23 | 46.23 | 532 | 1.76 | 0.15 | 29.1 |
| 4/27/2015 1:34:26 | 48.56 | 46.56 | 535 | 1.72 | 0.15 | 29.2 |
| 4/27/2015 1:34:27 | 48.88 | 46.88 | 535 | 1.79 | 0.15 | 29.2 |
| 4/27/2015 1:34:28 | 49.21 | 47.21 | 535 | 1.79 | 0.15 | 29.2 |
| 4/27/2015 1:34:56 | 49.54 | 47.54 | 68 | 1.79 | 1.26 | 3.7 |
| 4/27/2015 1:35:01 | 49.87 | 47.87 | 70 | 1.77 | 1.13 | 3.8 |
| 4/27/2015 1:35:10 | 50.20 | 48.20 | 42 | 1.79 | 1.13 | 2.3 |
| 4/27/2015 1:35:15 | 50.40 | 48.40 | 37 | 1.81 | 1.15 | 2.1 |

## H261 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:32:15

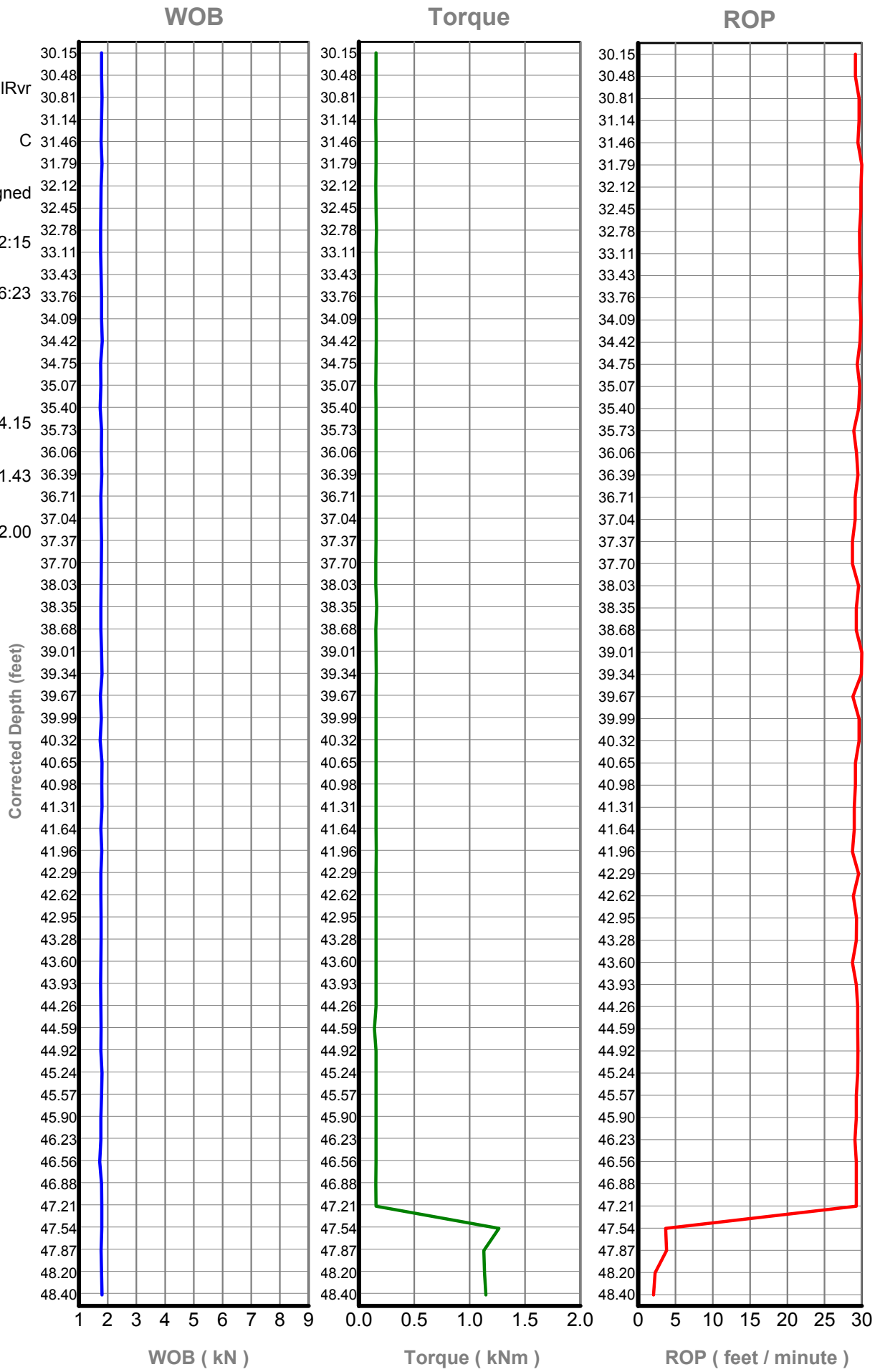
**End Date:**
4/27/2015 1:36:23

**Operator Note:**
'2 2.0 c Auto Complete'

**Northing:**
365,624.15

**Easting:**
249,741.43

**Tide (feet):**
2.00



## Hole: H262 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 20:57:31 | 36.42 | 30.32 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/26/2015 20:57:31 | 36.75 | 30.65 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/26/2015 20:57:31 | 37.07 | 30.97 | 1,057 | 0.30 | 0.31 | 57.8 |
| 4/26/2015 20:57:32 | 37.40 | 31.30 | 1,057 | 0.30 | 0.31 | 57.8 |
| 4/26/2015 20:57:32 | 37.73 | 31.63 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/26/2015 20:57:32 | 38.06 | 31.96 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/26/2015 20:57:32 | 38.39 | 32.29 | 1,053 | 0.30 | 0.32 | 57.6 |
| 4/26/2015 20:57:33 | 38.71 | 32.61 | 1,057 | 0.35 | 0.32 | 57.8 |
| 4/26/2015 20:57:33 | 39.04 | 32.94 | 1,057 | 0.35 | 0.32 | 57.8 |
| 4/26/2015 20:57:33 | 39.37 | 33.27 | 1,078 | 0.30 | 0.32 | 58.9 |
| 4/26/2015 20:57:34 | 39.70 | 33.60 | 1,078 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 20:57:34 | 40.03 | 33.93 | 1,078 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 20:57:34 | 40.35 | 34.25 | 1,071 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 20:57:35 | 40.68 | 34.58 | 1,073 | 0.31 | 0.32 | 58.7 |
| 4/26/2015 20:57:36 | 41.01 | 34.91 | 1,073 | 0.31 | 0.32 | 58.7 |
| 4/26/2015 20:57:35 | 41.34 | 35.24 | 1,071 | 0.30 | 0.32 | 58.6 |
| 4/26/2015 20:57:36 | 41.67 | 35.57 | 1,071 | 0.30 | 0.32 | 58.6 |
| 4/26/2015 20:57:36 | 41.99 | 35.89 | 1,071 | 0.30 | 0.32 | 58.6 |
| 4/26/2015 20:57:37 | 42.32 | 36.22 | 1,075 | 0.33 | 0.32 | 58.8 |
| 4/26/2015 20:57:37 | 42.65 | 36.55 | 1,075 | 0.33 | 0.32 | 58.8 |
| 4/26/2015 20:57:37 | 42.98 | 36.88 | 1,076 | 0.01 | 0.32 | 58.9 |
| 4/26/2015 20:57:38 | 43.31 | 37.21 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/26/2015 20:57:38 | 43.64 | 37.54 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/26/2015 20:57:38 | 43.96 | 37.86 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 20:57:39 | 44.29 | 38.19 | 1,054 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:57:39 | 44.62 | 38.52 | 1,054 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:57:39 | 44.95 | 38.85 | 1,071 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 20:57:40 | 45.28 | 39.18 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 20:57:40 | 45.60 | 39.50 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 20:57:40 | 45.93 | 39.83 | 1,065 | 0.30 | 0.32 | 58.2 |
| 4/26/2015 20:57:41 | 46.26 | 40.16 | 1,065 | 0.30 | 0.32 | 58.2 |
| 4/26/2015 20:57:41 | 46.59 | 40.49 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 20:57:41 | 46.92 | 40.82 | 1,077 | 0.30 | 0.32 | 58.9 |
| 4/26/2015 20:57:42 | 47.24 | 41.14 | 1,077 | 0.30 | 0.32 | 58.9 |
| 4/26/2015 20:57:42 | 47.57 | 41.47 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/26/2015 20:57:42 | 47.90 | 41.80 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/26/2015 20:57:43 | 48.23 | 42.13 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/26/2015 20:57:43 | 48.56 | 42.46 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/26/2015 20:57:43 | 48.88 | 42.78 | 1,064 | 0.35 | 0.31 | 58.2 |
| 4/26/2015 20:57:44 | 49.21 | 43.11 | 1,064 | 0.35 | 0.31 | 58.2 |
| 4/26/2015 20:57:44 | 49.54 | 43.44 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/26/2015 20:57:44 | 49.87 | 43.77 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/26/2015 20:57:45 | 50.20 | 44.10 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/26/2015 20:57:45 | 50.53 | 44.43 | 1,051 | 0.30 | 0.32 | 57.5 |
| 4/26/2015 20:57:45 | 50.85 | 44.75 | 1,055 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:57:46 | 51.18 | 45.08 | 1,055 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:57:46 | 51.51 | 45.41 | 1,055 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:57:47 | 51.84 | 45.74 | 1,040 | 0.30 | 0.37 | 56.9 |
| 4/26/2015 20:57:59 | 52.17 | 46.07 | 0 | 3.59 | 0.36 | 0.0 |
| 4/26/2015 20:58:01 | 52.49 | 46.39 | 163 | 2.97 | 0.40 | 8.9 |
| 4/26/2015 20:58:04 | 52.82 | 46.72 | 100 | 3.73 | 0.39 | 5.5 |
| 4/26/2015 20:58:06 | 53.15 | 47.05 | 152 | 4.01 | 0.40 | 8.3 |
| 4/26/2015 20:58:11 | 53.48 | 47.38 | 89 | 3.90 | 0.40 | 4.9 |
| 4/26/2015 20:58:14 | 53.81 | 47.71 | 90 | 3.78 | 0.39 | 4.9 |
| 4/26/2015 20:58:19 | 54.13 | 48.03 | 78 | 4.05 | 0.39 | 4.3 |
| 4/26/2015 20:58:22 | 54.46 | 48.36 | 95 | 3.94 | 0.40 | 5.2 |
| 4/26/2015 20:58:25 | 54.79 | 48.69 | 107 | 3.52 | 0.39 | 5.9 |
| 4/26/2015 20:58:29 | 55.12 | 49.02 | 104 | 3.79 | 0.39 | 5.7 |
| 4/26/2015 20:58:35 | 55.45 | 49.35 | 46 | 3.63 | 0.40 | 2.5 |
| 4/26/2015 20:58:42 | 55.77 | 49.67 | 54 | 3.29 | 0.40 | 2.9 |
| 4/26/2015 20:58:49 | 56.10 | 50.00 | 54 | 3.47 | 0.40 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 20:58:54 | 56.43 | 50.33 | 69 | 3.74 | 0.40 | 3.8 |

## H262 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 20:55:28

**End Date:**
4/26/2015 21:00:52

**Operator Note:**
'6.1 6.2b Auto Complete'

**Northing:**
365,683.98

**Easting:**
249,815.32

**Tide (feet):**
6.10



## Hole: H263 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 20:45:15 | 36.42 | 30.22 | 1,027 | 0.29 | 0.32 | 56.2 |
| 4/26/2015 20:45:16 | 36.75 | 30.55 | 1,027 | 0.29 | 0.31 | 56.2 |
| 4/26/2015 20:45:16 | 37.07 | 30.87 | 1,027 | 0.29 | 0.31 | 56.2 |
| 4/26/2015 20:45:17 | 37.40 | 31.20 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 20:45:17 | 37.73 | 31.53 | 1,069 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 20:45:18 | 38.06 | 31.86 | 1,069 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 20:45:18 | 38.39 | 32.19 | 1,047 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 20:45:18 | 38.71 | 32.51 | 1,047 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 20:45:18 | 39.04 | 32.84 | 1,090 | 0.30 | 0.31 | 59.6 |
| 4/26/2015 20:45:19 | 39.37 | 33.17 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/26/2015 20:45:19 | 39.70 | 33.50 | 1,090 | 0.29 | 0.32 | 59.6 |
| 4/26/2015 20:45:19 | 40.03 | 33.83 | 1,067 | 0.29 | 0.33 | 58.3 |
| 4/26/2015 20:45:20 | 40.35 | 34.15 | 1,073 | 0.30 | 0.32 | 58.7 |
| 4/26/2015 20:45:20 | 40.68 | 34.48 | 1,073 | 0.30 | 0.32 | 58.7 |
| 4/26/2015 20:45:20 | 41.01 | 34.81 | 1,074 | 0.09 | 0.31 | 58.7 |
| 4/26/2015 20:45:21 | 41.34 | 35.14 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/26/2015 20:45:21 | 41.67 | 35.47 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/26/2015 20:45:21 | 41.99 | 35.79 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/26/2015 20:45:22 | 42.32 | 36.12 | 1,073 | 0.30 | 0.32 | 58.7 |
| 4/26/2015 20:45:22 | 42.65 | 36.45 | 1,073 | 0.30 | 0.32 | 58.7 |
| 4/26/2015 20:45:22 | 42.98 | 36.78 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 20:45:23 | 43.31 | 37.11 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 20:45:23 | 43.64 | 37.44 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 20:45:23 | 43.96 | 37.76 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/26/2015 20:45:24 | 44.29 | 38.09 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/26/2015 20:45:24 | 44.62 | 38.42 | 1,068 | 0.29 | 0.29 | 58.4 |
| 4/26/2015 20:45:24 | 44.95 | 38.75 | 1,050 | 0.30 | 0.28 | 57.4 |
| 4/26/2015 20:45:25 | 45.28 | 39.08 | 1,050 | 0.30 | 0.28 | 57.4 |
| 4/26/2015 20:45:25 | 45.60 | 39.40 | 1,059 | 0.29 | 0.32 | 57.9 |
| 4/26/2015 20:45:25 | 45.93 | 39.73 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/26/2015 20:45:26 | 46.26 | 40.06 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/26/2015 20:45:26 | 46.59 | 40.39 | 1,072 | 0.30 | 0.32 | 58.6 |
| 4/26/2015 20:45:26 | 46.92 | 40.72 | 1,056 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:45:27 | 47.24 | 41.04 | 1,056 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:45:27 | 47.57 | 41.37 | 1,068 | 0.30 | 0.31 | 58.4 |
| 4/26/2015 20:45:28 | 47.90 | 41.70 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/26/2015 20:45:28 | 48.23 | 42.03 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/26/2015 20:45:28 | 48.56 | 42.36 | 1,056 | 0.30 | 0.32 | 57.7 |
| 4/26/2015 20:45:29 | 48.88 | 42.68 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/26/2015 20:45:29 | 49.21 | 43.01 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/26/2015 20:45:29 | 49.54 | 43.34 | 1,047 | 0.29 | 0.32 | 57.2 |
| 4/26/2015 20:45:30 | 49.87 | 43.67 | 1,047 | 0.29 | 0.32 | 57.2 |
| 4/26/2015 20:45:30 | 50.20 | 44.00 | 1,038 | 0.29 | 0.33 | 56.7 |
| 4/26/2015 20:45:30 | 50.53 | 44.33 | 1,053 | 0.30 | 0.32 | 57.6 |
| 4/26/2015 20:45:31 | 50.85 | 44.65 | 1,053 | 0.30 | 0.32 | 57.6 |
| 4/26/2015 20:45:31 | 51.18 | 44.98 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 20:45:31 | 51.51 | 45.31 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/26/2015 20:45:32 | 51.84 | 45.64 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/26/2015 20:45:32 | 52.17 | 45.97 | 1,044 | 0.10 | 0.32 | 57.1 |
| 4/26/2015 20:45:32 | 52.49 | 46.29 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/26/2015 20:45:33 | 52.82 | 46.62 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/26/2015 20:45:50 | 53.15 | 46.95 | 0 | 2.88 | 0.36 | 0.0 |
| 4/26/2015 20:45:51 | 53.48 | 47.28 | 45 | 3.73 | 0.39 | 2.4 |
| 4/26/2015 20:45:53 | 53.81 | 47.61 | 153 | 4.87 | 0.39 | 8.4 |
| 4/26/2015 20:45:55 | 54.13 | 47.93 | 205 | 2.34 | 0.34 | 11.2 |
| 4/26/2015 20:45:55 | 54.46 | 48.26 | 322 | 2.57 | 0.38 | 17.6 |
| 4/26/2015 20:45:57 | 54.79 | 48.59 | 237 | 2.91 | 0.36 | 13.0 |
| 4/26/2015 20:45:59 | 55.12 | 48.92 | 214 | 4.05 | 0.37 | 11.7 |
| 4/26/2015 20:46:00 | 55.45 | 49.25 | 346 | 3.40 | 0.37 | 18.9 |
| 4/26/2015 20:46:00 | 55.77 | 49.57 | 404 | 3.40 | 0.36 | 22.1 |
| 4/26/2015 20:46:01 | 56.10 | 49.90 | 420 | 2.87 | 0.40 | 23.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 20:46:02 | 56.43 | 50.23 | 409 | 2.58 | 0.39 | 22.4 |
| 4/26/2015 | 20:46:09 | 56.76 | 50.56 | 112 | 4.42 | 0.39 | 6.1 |
| 4/26/2015 | 20:46:11 | 57.09 | 50.89 | 216 | 3.73 | 0.39 | 11.8 |
| 4/26/2015 | 20:46:14 | 57.41 | 51.21 | 130 | 3.52 | 0.39 | 7.1 |
| 4/26/2015 | 20:46:16 | 57.74 | 51.54 | 182 | 3.77 | 0.39 | 10.0 |
| 4/26/2015 | 20:46:17 | 58.07 | 51.87 | 206 | 3.46 | 0.39 | 11.3 |
| 4/26/2015 | 20:46:21 | 58.40 | 52.20 | 104 | 2.90 | 0.40 | 5.7 |
| 4/26/2015 | 20:46:25 | 58.73 | 52.53 | 95 | 3.09 | 0.39 | 5.2 |
| 4/26/2015 | 20:46:28 | 59.06 | 52.86 | 96 | 3.41 | 0.39 | 5.3 |
| 4/26/2015 | 20:46:32 | 59.38 | 53.18 | 83 | 3.43 | 0.39 | 4.5 |
| 4/26/2015 | 20:46:37 | 59.71 | 53.51 | 66 | 3.31 | 0.40 | 3.6 |
| 4/26/2015 | 20:46:44 | 60.04 | 53.84 | 49 | 3.07 | 0.40 | 2.7 |
| 4/26/2015 | 20:46:52 | 60.37 | 54.17 | 49 | 3.62 | 0.41 | 2.7 |
| 4/26/2015 | 20:46:58 | 60.70 | 54.50 | 49 | 3.14 | 0.41 | 2.7 |
| 4/26/2015 | 20:47:01 | 60.80 | 54.60 | 49 | 3.22 | 0.41 | 2.7 |

## H263 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 20:43:07

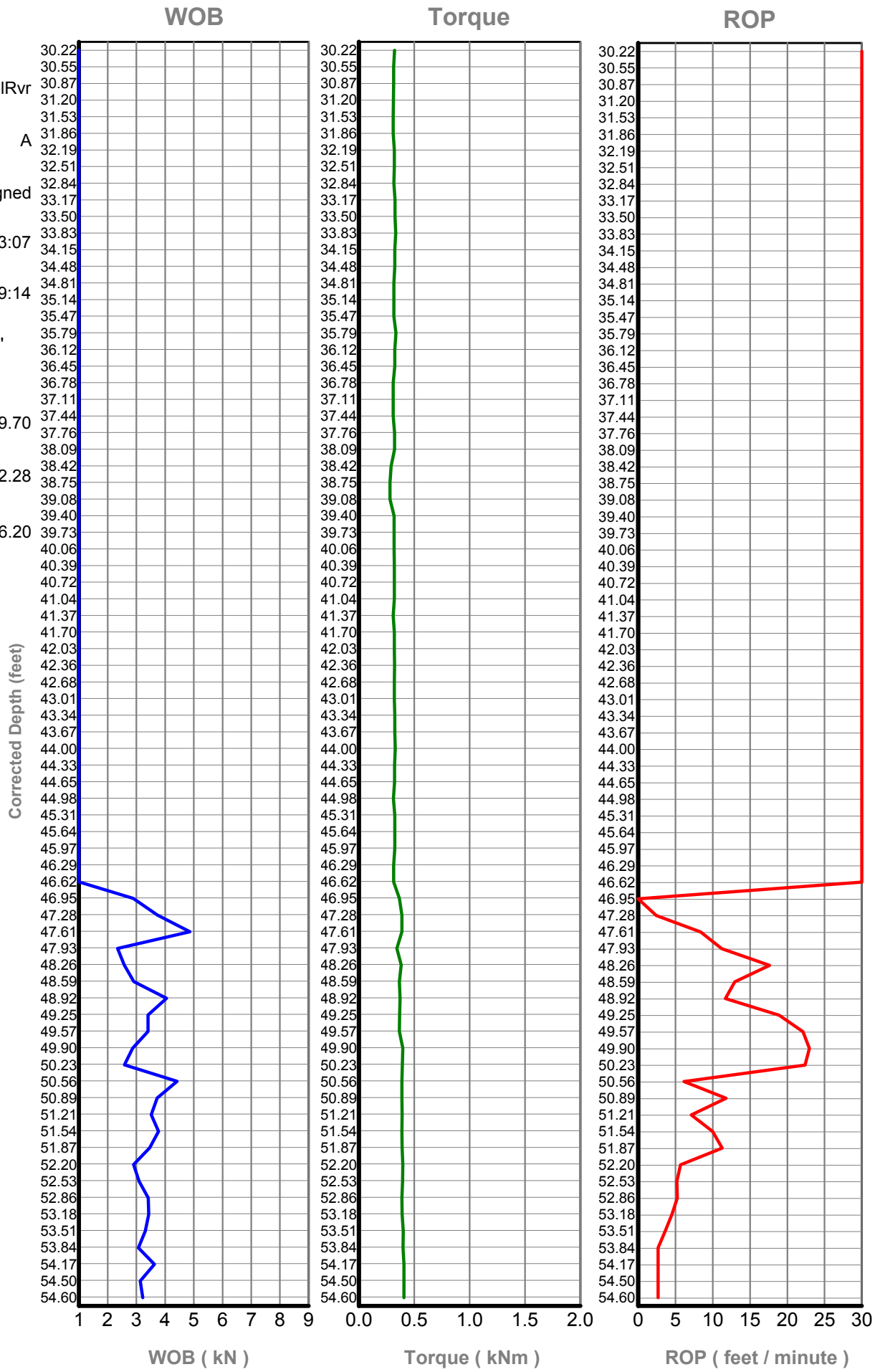
**End Date:**
4/26/2015 20:49:14

**Operator Note:**
'6.2 6.3b Auto Complete'

**Northing:**
365,719.70

**Easting:**
249,862.28

**Tide (feet):**
6.20



## Hole: H264 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 20:05:09 | 36.42 | 30.02 | 613 | 1.74 | 0.15 | 33.5 |
| 4/26/2015 20:05:10 | 36.75 | 30.35 | 613 | 1.79 | 0.15 | 33.5 |
| 4/26/2015 20:05:11 | 37.07 | 30.67 | 617 | 1.77 | 0.15 | 33.7 |
| 4/26/2015 20:05:11 | 37.40 | 31.00 | 600 | 1.77 | 0.15 | 32.8 |
| 4/26/2015 20:05:12 | 37.73 | 31.33 | 600 | 1.77 | 0.15 | 32.8 |
| 4/26/2015 20:05:13 | 38.06 | 31.66 | 609 | 1.77 | 0.15 | 33.3 |
| 4/26/2015 20:05:13 | 38.39 | 31.99 | 606 | 1.77 | 0.15 | 33.1 |
| 4/26/2015 20:05:14 | 38.71 | 32.31 | 613 | 1.76 | 0.15 | 33.5 |
| 4/26/2015 20:05:14 | 39.04 | 32.64 | 606 | 1.79 | 0.15 | 33.1 |
| 4/26/2015 20:05:15 | 39.37 | 32.97 | 616 | 1.79 | 0.15 | 33.7 |
| 4/26/2015 20:05:15 | 39.70 | 33.30 | 613 | 1.77 | 0.15 | 33.5 |
| 4/26/2015 20:05:16 | 40.03 | 33.63 | 610 | 1.76 | 0.15 | 33.4 |
| 4/26/2015 20:05:17 | 40.35 | 33.95 | 610 | 1.79 | 0.15 | 33.4 |
| 4/26/2015 20:05:17 | 40.68 | 34.28 | 613 | 1.77 | 0.15 | 33.5 |
| 4/26/2015 20:05:18 | 41.01 | 34.61 | 610 | 1.76 | 0.15 | 33.4 |
| 4/26/2015 20:05:18 | 41.34 | 34.94 | 610 | 1.79 | 0.15 | 33.4 |
| 4/26/2015 20:05:19 | 41.67 | 35.27 | 606 | 1.79 | 0.15 | 33.1 |
| 4/26/2015 20:05:19 | 41.99 | 35.59 | 613 | 1.79 | 0.15 | 33.5 |
| 4/26/2015 20:05:20 | 42.32 | 35.92 | 610 | 1.78 | 0.15 | 33.4 |
| 4/26/2015 20:05:21 | 42.65 | 36.25 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 20:05:21 | 42.98 | 36.58 | 610 | 1.76 | 0.15 | 33.4 |
| 4/26/2015 20:05:22 | 43.31 | 36.91 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 20:05:23 | 43.64 | 37.24 | 607 | 1.77 | 0.15 | 33.2 |
| 4/26/2015 20:05:23 | 43.96 | 37.56 | 604 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 20:05:24 | 44.29 | 37.89 | 610 | 1.74 | 0.15 | 33.4 |
| 4/26/2015 20:05:24 | 44.62 | 38.22 | 607 | 1.76 | 0.15 | 33.2 |
| 4/26/2015 20:05:25 | 44.95 | 38.55 | 604 | 1.78 | 0.15 | 33.0 |
| 4/26/2015 20:05:26 | 45.28 | 38.88 | 604 | 1.75 | 0.15 | 33.0 |
| 4/26/2015 20:05:26 | 45.60 | 39.20 | 604 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 20:05:27 | 45.93 | 39.53 | 604 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 20:05:27 | 46.26 | 39.86 | 601 | 1.78 | 0.15 | 32.8 |
| 4/26/2015 20:05:28 | 46.59 | 40.19 | 610 | 1.79 | 0.15 | 33.4 |
| 4/26/2015 20:05:28 | 46.92 | 40.52 | 610 | 1.75 | 0.15 | 33.4 |
| 4/26/2015 20:05:29 | 47.24 | 40.84 | 607 | 1.78 | 0.15 | 33.2 |
| 4/26/2015 20:05:30 | 47.57 | 41.17 | 610 | 1.73 | 0.15 | 33.4 |
| 4/26/2015 20:05:30 | 47.90 | 41.50 | 607 | 1.81 | 0.15 | 33.2 |
| 4/26/2015 20:05:31 | 48.23 | 41.83 | 604 | 1.81 | 0.15 | 33.0 |
| 4/26/2015 20:05:31 | 48.56 | 42.16 | 604 | 1.78 | 0.15 | 33.0 |
| 4/26/2015 20:05:32 | 48.88 | 42.48 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 20:05:32 | 49.21 | 42.81 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 20:05:33 | 49.54 | 43.14 | 607 | 1.78 | 0.15 | 33.2 |
| 4/26/2015 20:05:34 | 49.87 | 43.47 | 607 | 1.77 | 0.15 | 33.2 |
| 4/26/2015 20:05:35 | 50.20 | 43.80 | 604 | 1.76 | 0.15 | 33.0 |
| 4/26/2015 20:05:35 | 50.53 | 44.13 | 604 | 1.76 | 0.15 | 33.0 |
| 4/26/2015 20:05:36 | 50.85 | 44.45 | 598 | 1.77 | 0.15 | 32.7 |
| 4/26/2015 20:05:36 | 51.18 | 44.78 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 20:05:37 | 51.51 | 45.11 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 20:05:37 | 51.84 | 45.44 | 589 | 1.76 | 0.15 | 32.2 |
| 4/26/2015 20:05:38 | 52.17 | 45.77 | 589 | 1.77 | 0.15 | 32.2 |
| 4/26/2015 20:05:39 | 52.49 | 46.09 | 599 | 1.78 | 0.15 | 32.7 |
| 4/26/2015 20:05:39 | 52.82 | 46.42 | 595 | 1.78 | 0.15 | 32.6 |
| 4/26/2015 20:06:00 | 53.15 | 46.75 | 5 | 1.76 | 1.02 | 0.3 |
| 4/26/2015 20:06:01 | 53.48 | 47.08 | 88 | 1.51 | 1.14 | 4.8 |
| 4/26/2015 20:06:20 | 53.81 | 47.41 | 24 | 1.73 | 1.21 | 1.3 |
| 4/26/2015 20:06:22 | 54.13 | 47.73 | 99 | 1.71 | 1.09 | 5.4 |
| 4/26/2015 20:06:24 | 54.46 | 48.06 | 175 | 1.72 | 1.05 | 9.6 |
| 4/26/2015 20:06:29 | 54.79 | 48.39 | 6 | 1.76 | 1.15 | 0.3 |
| 4/26/2015 20:06:31 | 55.12 | 48.72 | 111 | 1.76 | 1.11 | 6.1 |
| 4/26/2015 20:06:32 | 55.45 | 49.05 | 208 | 1.76 | 1.07 | 11.4 |
| 4/26/2015 20:06:39 | 55.77 | 49.37 | 45 | 1.76 | 1.11 | 2.5 |
| 4/26/2015 20:06:41 | 56.10 | 49.70 | 125 | 1.75 | 1.11 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 20:06:47 | 56.43 | 50.03 | 53 | 1.78 | 1.08 | 2.9 |
| 4/26/2015 | 20:06:54 | 56.76 | 50.36 | 51 | 1.76 | 1.09 | 2.8 |
| 4/26/2015 | 20:07:02 | 57.09 | 50.69 | 51 | 1.79 | 1.09 | 2.8 |
| 4/26/2015 | 20:07:05 | 57.27 | 50.87 | 51 | 1.77 | 1.21 | 2.8 |

## H264 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 20:00:56

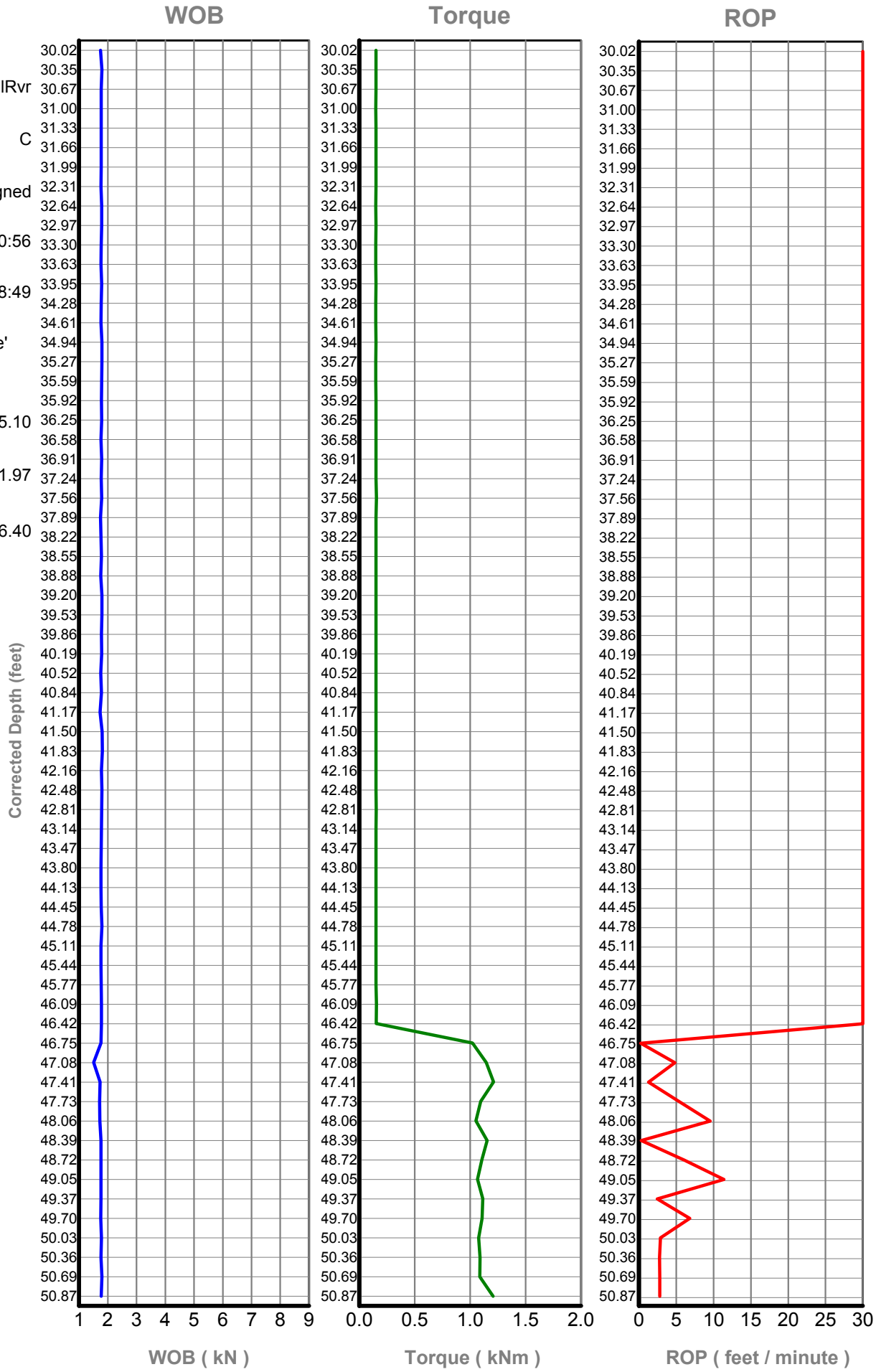
**End Date:**
4/26/2015 20:08:49

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
365,765.10

**Easting:**
249,921.97

**Tide (feet):**
6.40



## Hole: H265 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:18:30 | 31.82 | 30.32 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 15:18:30 | 32.15 | 30.65 | 1,094 | 0.34 | 0.31 | 59.8 |
| 4/26/2015 15:18:30 | 32.48 | 30.98 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:18:31 | 32.81 | 31.31 | 1,111 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 15:18:31 | 33.14 | 31.64 | 1,105 | 0.29 | 0.30 | 60.4 |
| 4/26/2015 15:18:32 | 33.46 | 31.96 | 1,102 | 0.29 | 0.30 | 60.3 |
| 4/26/2015 15:18:32 | 33.79 | 32.29 | 1,102 | 0.29 | 0.30 | 60.3 |
| 4/26/2015 15:18:32 | 34.12 | 32.62 | 1,099 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 15:18:33 | 34.45 | 32.95 | 1,099 | 0.29 | 0.30 | 60.1 |
| 4/26/2015 15:18:33 | 34.78 | 33.28 | 1,108 | 0.29 | 0.30 | 60.6 |
| 4/26/2015 15:18:33 | 35.11 | 33.61 | 1,098 | 0.29 | 0.32 | 60.1 |
| 4/26/2015 15:18:34 | 35.43 | 33.93 | 1,098 | 0.29 | 0.32 | 60.1 |
| 4/26/2015 15:18:34 | 35.76 | 34.26 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:18:34 | 36.09 | 34.59 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:18:34 | 36.42 | 34.92 | 1,080 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:18:35 | 36.75 | 35.25 | 1,096 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:18:35 | 37.07 | 35.57 | 1,096 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:18:35 | 37.40 | 35.90 | 1,082 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:18:36 | 37.73 | 36.23 | 1,082 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:18:36 | 38.06 | 36.56 | 1,082 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:18:36 | 38.39 | 36.89 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:18:37 | 38.71 | 37.21 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 15:18:37 | 39.04 | 37.54 | 1,092 | 0.29 | 0.30 | 59.7 |
| 4/26/2015 15:18:37 | 39.37 | 37.87 | 1,098 | 0.29 | 0.30 | 60.0 |
| 4/26/2015 15:18:38 | 39.70 | 38.20 | 1,098 | 0.29 | 0.30 | 60.0 |
| 4/26/2015 15:18:38 | 40.03 | 38.53 | 1,095 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 15:18:38 | 40.35 | 38.85 | 1,104 | 0.34 | 0.31 | 60.4 |
| 4/26/2015 15:18:39 | 40.68 | 39.18 | 1,104 | 0.34 | 0.31 | 60.4 |
| 4/26/2015 15:18:39 | 41.01 | 39.51 | 1,107 | 0.31 | 0.31 | 60.5 |
| 4/26/2015 15:18:39 | 41.34 | 39.84 | 1,079 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:18:40 | 41.67 | 40.17 | 1,079 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:18:40 | 41.99 | 40.49 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:18:41 | 42.32 | 40.82 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:18:40 | 42.65 | 41.15 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 15:18:41 | 42.98 | 41.48 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 15:18:42 | 43.31 | 41.81 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 15:18:42 | 43.64 | 42.14 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:18:42 | 43.96 | 42.46 | 1,065 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:18:43 | 44.29 | 42.79 | 1,065 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:18:43 | 44.62 | 43.12 | 1,065 | 0.29 | 0.38 | 58.3 |
| 4/26/2015 15:18:43 | 44.95 | 43.45 | 1,065 | 0.29 | 0.38 | 58.3 |
| 4/26/2015 15:18:43 | 45.28 | 43.78 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 15:18:44 | 45.60 | 44.10 | 1,069 | 0.29 | 0.33 | 58.5 |
| 4/26/2015 15:18:49 | 45.93 | 44.43 | 9 | 2.56 | 0.38 | 0.5 |
| 4/26/2015 15:18:54 | 46.26 | 44.76 | 68 | 3.54 | 0.39 | 3.7 |
| 4/26/2015 15:18:58 | 46.59 | 45.09 | 84 | 3.71 | 0.40 | 4.6 |
| 4/26/2015 15:19:03 | 46.92 | 45.42 | 55 | 3.54 | 0.39 | 3.0 |
| 4/26/2015 15:19:09 | 47.24 | 45.74 | 55 | 4.23 | 0.39 | 3.0 |
| 4/26/2015 15:19:14 | 47.57 | 46.07 | 75 | 3.33 | 0.39 | 4.1 |
| 4/26/2015 15:19:17 | 47.90 | 46.40 | 118 | 3.41 | 0.39 | 6.5 |
| 4/26/2015 15:19:20 | 48.23 | 46.73 | 97 | 3.45 | 0.39 | 5.3 |
| 4/26/2015 15:19:24 | 48.56 | 47.06 | 124 | 3.76 | 0.39 | 6.8 |
| 4/26/2015 15:19:26 | 48.88 | 47.38 | 127 | 3.43 | 0.39 | 7.0 |
| 4/26/2015 15:19:29 | 49.21 | 47.71 | 146 | 2.81 | 0.40 | 8.0 |
| 4/26/2015 15:19:39 | 49.54 | 48.04 | 48 | 2.95 | 0.40 | 2.6 |
| 4/26/2015 15:19:48 | 49.87 | 48.37 | 46 | 3.47 | 0.39 | 2.5 |
| 4/26/2015 15:19:56 | 50.18 | 48.68 | 43 | 2.64 | 0.40 | 2.4 |

## H265 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:17:00

**End Date:**
4/26/2015 15:27:06

**Operator Note:**
'1.5 1.4 b Auto Complete'

**Northing:**
365,824.66

**Easting:**
249,979.31

**Tide (feet):**
1.50



## Hole: H266 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:14:59 | 31.50 | 30.10 | 1,101 | 0.29 | 0.30 | 60.2 |
| 4/26/2015 15:14:59 | 31.82 | 30.42 | 1,081 | 0.28 | 0.32 | 59.1 |
| 4/26/2015 15:14:59 | 32.15 | 30.75 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:00 | 32.48 | 31.08 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:00 | 32.81 | 31.41 | 1,082 | 0.30 | 0.30 | 59.2 |
| 4/26/2015 15:15:00 | 33.14 | 31.74 | 1,082 | 0.29 | 0.30 | 59.2 |
| 4/26/2015 15:15:01 | 33.46 | 32.06 | 1,082 | 0.29 | 0.30 | 59.2 |
| 4/26/2015 15:15:01 | 33.79 | 32.39 | 1,059 | 0.29 | 0.31 | 57.9 |
| 4/26/2015 15:15:01 | 34.12 | 32.72 | 1,059 | 0.29 | 0.30 | 57.9 |
| 4/26/2015 15:15:02 | 34.45 | 33.05 | 1,059 | 0.29 | 0.30 | 57.9 |
| 4/26/2015 15:15:02 | 34.78 | 33.38 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:15:02 | 35.11 | 33.71 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:15:03 | 35.43 | 34.03 | 1,095 | 0.25 | 0.31 | 59.9 |
| 4/26/2015 15:15:03 | 35.76 | 34.36 | 1,085 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:04 | 36.09 | 34.69 | 1,085 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:04 | 36.42 | 35.02 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:15:04 | 36.75 | 35.35 | 1,108 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 15:15:05 | 37.07 | 35.67 | 1,108 | 0.29 | 0.31 | 60.6 |
| 4/26/2015 15:15:05 | 37.40 | 36.00 | 1,080 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:05 | 37.73 | 36.33 | 1,080 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:05 | 38.06 | 36.66 | 1,080 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:15:06 | 38.39 | 36.99 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:15:06 | 38.71 | 37.31 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:15:06 | 39.04 | 37.64 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:15:07 | 39.37 | 37.97 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:07 | 39.70 | 38.30 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:07 | 40.03 | 38.63 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:08 | 40.35 | 38.95 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:15:08 | 40.68 | 39.28 | 1,100 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 15:15:08 | 41.01 | 39.61 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:15:09 | 41.34 | 39.94 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:15:09 | 41.67 | 40.27 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:15:09 | 41.99 | 40.59 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:15:10 | 42.32 | 40.92 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:15:10 | 42.65 | 41.25 | 1,093 | 0.29 | 0.30 | 59.8 |
| 4/26/2015 15:15:10 | 42.98 | 41.58 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:11 | 43.31 | 41.91 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:15:11 | 43.64 | 42.24 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:15:11 | 43.96 | 42.56 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:15:11 | 44.29 | 42.89 | 1,087 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:15:12 | 44.62 | 43.22 | 1,087 | 0.29 | 0.30 | 59.5 |
| 4/26/2015 15:15:12 | 44.95 | 43.55 | 1,087 | 0.29 | 0.30 | 59.5 |
| 4/26/2015 15:15:12 | 45.28 | 43.88 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:15:13 | 45.60 | 44.20 | 1,094 | 0.28 | 0.32 | 59.8 |
| 4/26/2015 15:15:14 | 45.93 | 44.53 | 1,094 | 0.28 | 0.32 | 59.8 |
| 4/26/2015 15:15:18 | 46.26 | 44.86 | 0 | 4.23 | 0.42 | 0.0 |
| 4/26/2015 15:15:29 | 46.59 | 45.19 | 54 | 3.62 | 0.40 | 2.9 |
| 4/26/2015 15:15:33 | 46.92 | 45.52 | 78 | 4.76 | 0.39 | 4.3 |
| 4/26/2015 15:15:38 | 47.24 | 45.84 | 64 | 3.32 | 0.39 | 3.5 |
| 4/26/2015 15:15:48 | 47.57 | 46.17 | 37 | 2.91 | 0.39 | 2.0 |
| 4/26/2015 15:15:56 | 47.90 | 46.50 | 43 | 3.13 | 0.40 | 2.4 |
| 4/26/2015 15:15:59 | 48.02 | 46.62 | 38 | 3.09 | 0.39 | 2.1 |

## H266 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:13:05

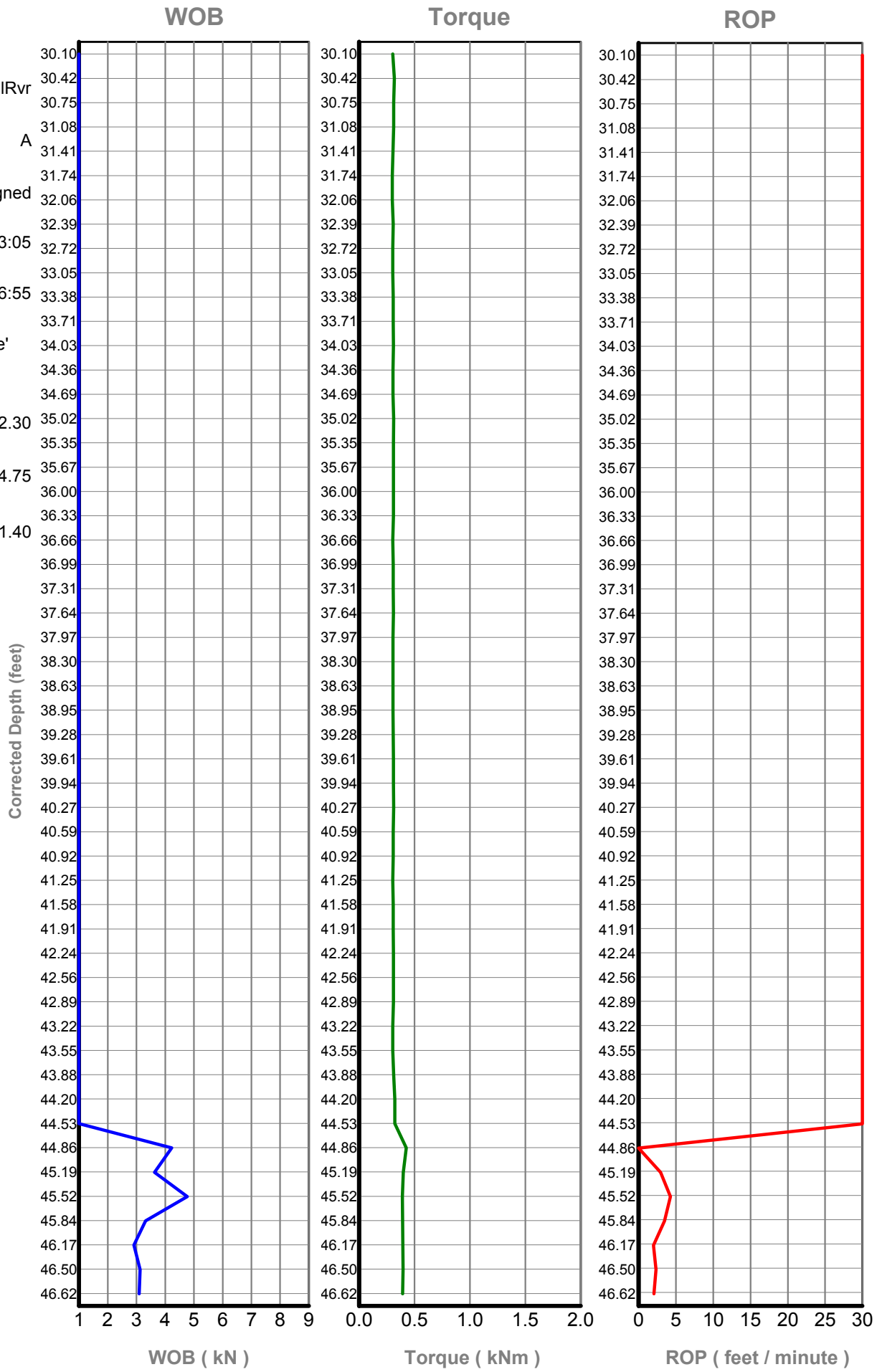
**End Date:**
4/26/2015 15:16:55

**Operator Note:**
'1.4 1.2 b Auto Complete'

**Northing:**
365,862.30

**Easting:**
250,024.75

**Tide (feet):**
1.40



## Hole: H267 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:16:49 | 31.50 | 30.10 | 730 | 1.74 | 0.28 | 39.9 |
| 4/26/2015 15:16:50 | 31.82 | 30.42 | 733 | 1.76 | 0.29 | 40.1 |
| 4/26/2015 15:16:50 | 32.15 | 30.75 | 734 | 1.74 | 0.29 | 40.2 |
| 4/26/2015 15:16:51 | 32.48 | 31.08 | 731 | 1.74 | 0.29 | 40.0 |
| 4/26/2015 15:16:51 | 32.81 | 31.41 | 734 | 1.70 | 0.28 | 40.1 |
| 4/26/2015 15:16:52 | 33.14 | 31.74 | 737 | 1.74 | 0.28 | 40.3 |
| 4/26/2015 15:16:52 | 33.46 | 32.06 | 739 | 1.74 | 0.29 | 40.4 |
| 4/26/2015 15:16:53 | 33.79 | 32.39 | 731 | 1.75 | 0.29 | 40.0 |
| 4/26/2015 15:16:53 | 34.12 | 32.72 | 731 | 1.75 | 0.29 | 40.0 |
| 4/26/2015 15:16:53 | 34.45 | 33.05 | 727 | 1.76 | 0.28 | 39.7 |
| 4/26/2015 15:16:54 | 34.78 | 33.38 | 731 | 1.76 | 0.29 | 40.0 |
| 4/26/2015 15:16:54 | 35.11 | 33.71 | 726 | 1.76 | 0.29 | 39.7 |
| 4/26/2015 15:16:55 | 35.43 | 34.03 | 729 | 1.74 | 0.29 | 39.8 |
| 4/26/2015 15:16:55 | 35.76 | 34.36 | 729 | 1.76 | 0.29 | 39.8 |
| 4/26/2015 15:16:56 | 36.09 | 34.69 | 729 | 1.76 | 0.29 | 39.8 |
| 4/26/2015 15:16:56 | 36.42 | 35.02 | 729 | 1.79 | 0.29 | 39.8 |
| 4/26/2015 15:16:57 | 36.75 | 35.35 | 729 | 1.76 | 0.29 | 39.8 |
| 4/26/2015 15:16:57 | 37.07 | 35.67 | 721 | 1.75 | 0.29 | 39.4 |
| 4/26/2015 15:16:58 | 37.40 | 36.00 | 732 | 1.74 | 0.29 | 40.0 |
| 4/26/2015 15:16:59 | 37.73 | 36.33 | 732 | 1.74 | 0.29 | 40.0 |
| 4/26/2015 15:16:59 | 38.06 | 36.66 | 729 | 1.74 | 0.29 | 39.8 |
| 4/26/2015 15:17:00 | 38.39 | 36.99 | 729 | 1.76 | 0.28 | 39.8 |
| 4/26/2015 15:17:00 | 38.71 | 37.31 | 736 | 1.76 | 0.28 | 40.2 |
| 4/26/2015 15:17:01 | 39.04 | 37.64 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 15:17:01 | 39.37 | 37.97 | 730 | 1.76 | 0.28 | 39.9 |
| 4/26/2015 15:17:02 | 39.70 | 38.30 | 730 | 1.76 | 0.28 | 39.9 |
| 4/26/2015 15:17:02 | 40.03 | 38.63 | 722 | 1.75 | 0.28 | 39.5 |
| 4/26/2015 15:17:02 | 40.35 | 38.95 | 726 | 1.74 | 0.28 | 39.7 |
| 4/26/2015 15:17:03 | 40.68 | 39.28 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 15:17:03 | 41.01 | 39.61 | 729 | 1.76 | 0.28 | 39.9 |
| 4/26/2015 15:17:04 | 41.34 | 39.94 | 721 | 1.74 | 0.28 | 39.4 |
| 4/26/2015 15:17:04 | 41.67 | 40.27 | 730 | 1.74 | 0.29 | 39.9 |
| 4/26/2015 15:17:05 | 41.99 | 40.59 | 726 | 1.76 | 0.28 | 39.7 |
| 4/26/2015 15:17:05 | 42.32 | 40.92 | 726 | 1.74 | 0.28 | 39.7 |
| 4/26/2015 15:17:06 | 42.65 | 41.25 | 723 | 1.72 | 0.28 | 39.5 |
| 4/26/2015 15:17:06 | 42.98 | 41.58 | 719 | 1.76 | 0.29 | 39.3 |
| 4/26/2015 15:17:07 | 43.31 | 41.91 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 15:17:07 | 43.64 | 42.24 | 719 | 1.76 | 0.28 | 39.3 |
| 4/26/2015 15:17:08 | 43.96 | 42.56 | 719 | 1.74 | 0.28 | 39.3 |
| 4/26/2015 15:17:09 | 44.29 | 42.89 | 723 | 1.74 | 0.28 | 39.6 |
| 4/26/2015 15:17:09 | 44.62 | 43.22 | 727 | 1.74 | 0.28 | 39.8 |
| 4/26/2015 15:17:10 | 44.95 | 43.55 | 695 | 1.76 | 0.28 | 38.0 |
| 4/26/2015 15:17:10 | 45.28 | 43.88 | 695 | 1.76 | 0.28 | 38.0 |
| 4/26/2015 15:17:11 | 45.60 | 44.20 | 715 | 1.74 | 0.28 | 39.1 |
| 4/26/2015 15:17:11 | 45.93 | 44.53 | 709 | 1.72 | 0.28 | 38.8 |
| 4/26/2015 15:17:26 | 46.26 | 44.86 | 74 | 1.76 | 1.03 | 4.0 |
| 4/26/2015 15:17:27 | 46.59 | 45.19 | 162 | 1.74 | 1.26 | 8.9 |
| 4/26/2015 15:17:28 | 46.92 | 45.52 | 325 | 1.74 | 0.97 | 17.8 |
| 4/26/2015 15:17:28 | 47.24 | 45.84 | 413 | 1.76 | 1.09 | 22.6 |
| 4/26/2015 15:17:30 | 47.57 | 46.17 | 445 | 1.78 | 0.85 | 24.3 |
| 4/26/2015 15:17:30 | 47.90 | 46.50 | 460 | 1.76 | 0.88 | 25.1 |
| 4/26/2015 15:17:31 | 48.23 | 46.83 | 480 | 1.77 | 1.16 | 26.3 |
| 4/26/2015 15:19:30 | 48.56 | 47.16 | 26 | 1.79 | 0.96 | 1.4 |
| 4/26/2015 15:19:45 | 48.88 | 47.48 | 23 | 1.79 | 0.97 | 1.3 |
| 4/26/2015 15:19:59 | 49.21 | 47.81 | 26 | 1.79 | 0.91 | 1.4 |
| 4/26/2015 15:20:08 | 49.54 | 48.14 | 29 | 1.79 | 0.98 | 1.6 |
| 4/26/2015 15:20:21 | 49.87 | 48.47 | 26 | 1.79 | 0.93 | 1.4 |
| 4/26/2015 15:20:35 | 50.20 | 48.80 | 26 | 1.76 | 1.14 | 1.4 |

## H267 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:15:29

**End Date:**
4/26/2015 15:22:05

**Operator Note:**
'1.4 1.2 C Auto Complete'

**Northing:**
365,910.14

**Easting:**
250,082.51

**Tide (feet):**
1.40



## Hole: H268 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:09:25 | 33.46 | 30.26 | 1,008 | 0.31 | 0.31 | 55.1 |
| 4/26/2015 11:09:26 | 33.79 | 30.59 | 1,020 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 11:09:26 | 34.12 | 30.92 | 1,020 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 11:09:26 | 34.45 | 31.25 | 1,018 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 11:09:27 | 34.78 | 31.58 | 1,021 | 0.30 | 0.32 | 55.8 |
| 4/26/2015 11:09:27 | 35.11 | 31.91 | 1,021 | 0.30 | 0.32 | 55.8 |
| 4/26/2015 11:09:27 | 35.43 | 32.23 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 11:09:28 | 35.76 | 32.56 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 11:09:28 | 36.09 | 32.89 | 1,021 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 11:09:28 | 36.42 | 33.22 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 11:09:29 | 36.75 | 33.55 | 1,012 | 0.30 | 0.31 | 55.3 |
| 4/26/2015 11:09:29 | 37.07 | 33.87 | 1,000 | 0.30 | 0.31 | 54.7 |
| 4/26/2015 11:09:30 | 37.40 | 34.20 | 1,000 | 0.30 | 0.31 | 54.7 |
| 4/26/2015 11:09:30 | 37.73 | 34.53 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/26/2015 11:09:30 | 38.06 | 34.86 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/26/2015 11:09:31 | 38.39 | 35.19 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/26/2015 11:09:31 | 38.71 | 35.51 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 11:09:32 | 39.04 | 35.84 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 11:09:32 | 39.37 | 36.17 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 11:09:32 | 39.70 | 36.50 | 1,004 | 0.30 | 0.31 | 54.9 |
| 4/26/2015 11:09:33 | 40.03 | 36.83 | 1,004 | 0.30 | 0.31 | 54.9 |
| 4/26/2015 11:09:33 | 40.35 | 37.15 | 1,004 | 0.30 | 0.31 | 54.9 |
| 4/26/2015 11:09:33 | 40.68 | 37.48 | 990 | 0.31 | 0.31 | 54.2 |
| 4/26/2015 11:09:34 | 41.01 | 37.81 | 990 | 0.30 | 0.31 | 54.2 |
| 4/26/2015 11:09:34 | 41.34 | 38.14 | 990 | 0.30 | 0.31 | 54.2 |
| 4/26/2015 11:09:34 | 41.67 | 38.47 | 1,017 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 11:09:35 | 41.99 | 38.79 | 1,008 | 0.31 | 0.31 | 55.1 |
| 4/26/2015 11:09:35 | 42.32 | 39.12 | 1,008 | 0.31 | 0.31 | 55.1 |
| 4/26/2015 11:09:35 | 42.65 | 39.45 | 1,014 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 11:09:36 | 42.98 | 39.78 | 1,025 | 0.30 | 0.31 | 56.0 |
| 4/26/2015 11:09:36 | 43.31 | 40.11 | 1,025 | 0.30 | 0.31 | 56.0 |
| 4/26/2015 11:09:36 | 43.64 | 40.44 | 1,038 | 0.30 | 0.31 | 56.8 |
| 4/26/2015 11:09:37 | 43.96 | 40.76 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:09:37 | 44.29 | 41.09 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:09:37 | 44.62 | 41.42 | 1,007 | 0.31 | 0.33 | 55.1 |
| 4/26/2015 11:09:38 | 44.95 | 41.75 | 1,007 | 0.30 | 0.31 | 55.1 |
| 4/26/2015 11:09:38 | 45.28 | 42.08 | 1,007 | 0.30 | 0.31 | 55.1 |
| 4/26/2015 11:09:38 | 45.60 | 42.40 | 1,013 | 0.31 | 0.31 | 55.4 |
| 4/26/2015 11:09:39 | 45.93 | 42.73 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/26/2015 11:09:39 | 46.26 | 43.06 | 1,023 | 0.31 | 0.31 | 55.9 |
| 4/26/2015 11:09:39 | 46.59 | 43.39 | 1,014 | 0.30 | 0.31 | 55.4 |
| 4/26/2015 11:09:40 | 46.92 | 43.72 | 1,005 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 11:09:40 | 47.24 | 44.04 | 1,005 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 11:09:40 | 47.57 | 44.37 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 11:09:41 | 47.90 | 44.70 | 1,015 | 0.29 | 0.34 | 55.5 |
| 4/26/2015 11:09:47 | 48.23 | 45.03 | 0 | 3.76 | 0.35 | 0.0 |
| 4/26/2015 11:09:49 | 48.56 | 45.36 | 184 | 4.42 | 0.38 | 10.0 |
| 4/26/2015 11:09:50 | 48.88 | 45.68 | 187 | 4.34 | 0.38 | 10.2 |
| 4/26/2015 11:09:57 | 49.21 | 46.01 | 78 | 4.28 | 0.38 | 4.2 |
| 4/26/2015 11:10:02 | 49.54 | 46.34 | 72 | 4.36 | 0.39 | 3.9 |
| 4/26/2015 11:10:06 | 49.87 | 46.67 | 72 | 3.88 | 0.39 | 3.9 |
| 4/26/2015 11:10:11 | 50.20 | 47.00 | 63 | 4.55 | 0.39 | 3.5 |
| 4/26/2015 11:10:15 | 50.53 | 47.33 | 104 | 4.33 | 0.38 | 5.7 |
| 4/26/2015 11:10:23 | 50.85 | 47.65 | 0 | 4.95 | 0.36 | 0.0 |
| 4/26/2015 11:10:35 | 51.18 | 47.98 | 59 | 3.16 | 0.40 | 3.2 |
| 4/26/2015 11:10:42 | 51.51 | 48.31 | 53 | 3.35 | 0.40 | 2.9 |
| 4/26/2015 11:10:49 | 51.84 | 48.64 | 51 | 3.74 | 0.40 | 2.8 |
| 4/26/2015 11:10:53 | 52.17 | 48.97 | 89 | 3.47 | 0.38 | 4.9 |
| 4/26/2015 11:11:02 | 52.49 | 49.29 | 46 | 3.45 | 0.40 | 2.5 |
| 4/26/2015 11:11:10 | 52.82 | 49.62 | 47 | 3.01 | 0.39 | 2.5 |

## H268 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:07:31

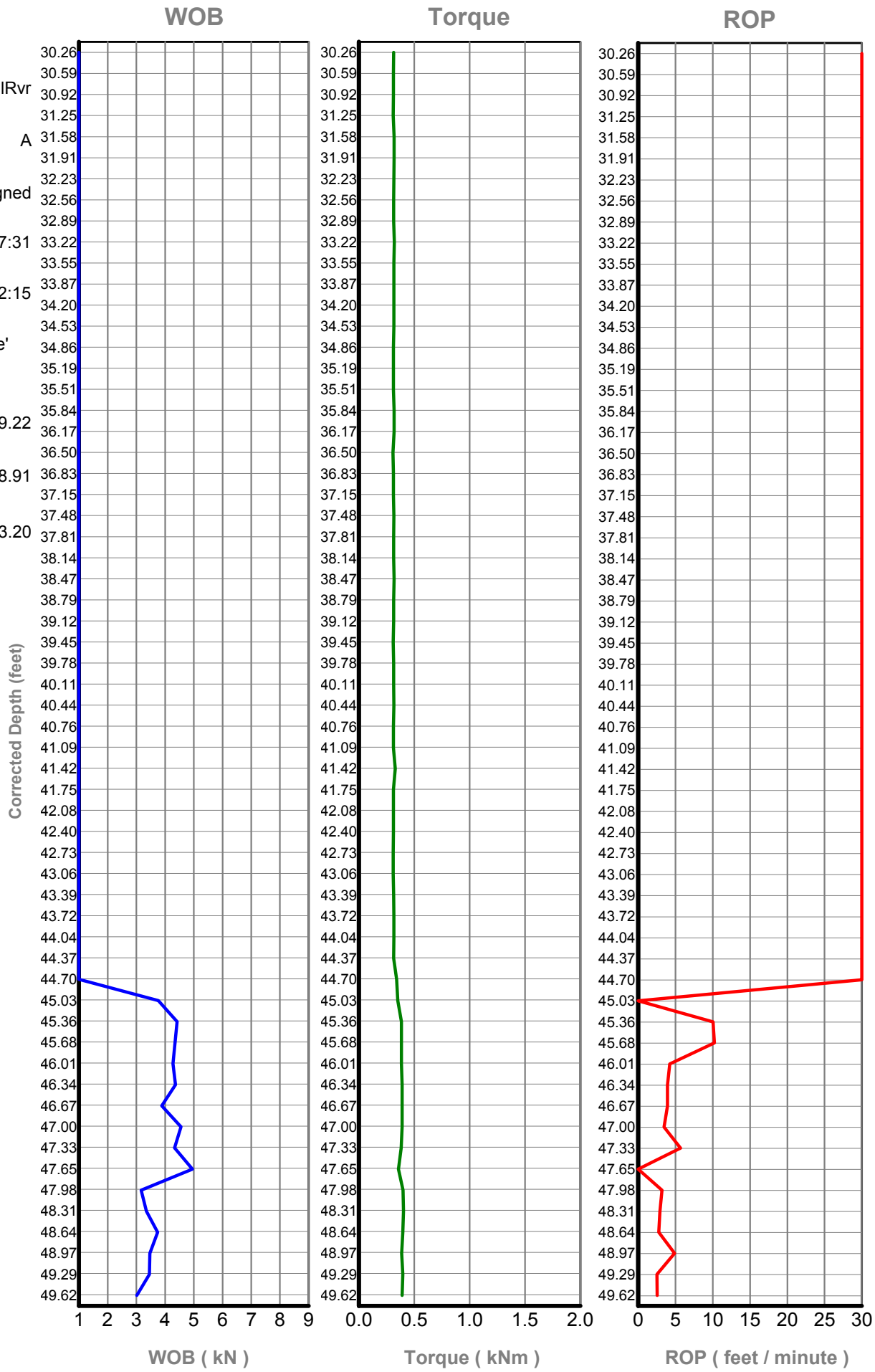
**End Date:**
4/26/2015 11:12:15

**Operator Note:**
'3.2 3.4 b Auto Complete'

**Northing:**
365,969.22

**Easting:**
250,168.91

**Tide (feet):**
3.20



## Hole: H269 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:14:20 | 33.14 | 30.04 | 1,022 | 0.32 | 0.31 | 55.9 |
| 4/26/2015 11:14:20 | 33.46 | 30.36 | 1,019 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:14:21 | 33.79 | 30.69 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/26/2015 11:14:21 | 34.12 | 31.02 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/26/2015 11:14:21 | 34.45 | 31.35 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 11:14:22 | 34.78 | 31.68 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 11:14:22 | 35.11 | 32.01 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 11:14:22 | 35.43 | 32.33 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 11:14:23 | 35.76 | 32.66 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:14:24 | 36.09 | 32.99 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 11:14:24 | 36.42 | 33.32 | 1,014 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 11:14:24 | 36.75 | 33.65 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/26/2015 11:14:25 | 37.07 | 33.97 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/26/2015 11:14:25 | 37.40 | 34.30 | 1,021 | 0.32 | 0.31 | 55.8 |
| 4/26/2015 11:14:25 | 37.73 | 34.63 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:14:26 | 38.06 | 34.96 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:14:26 | 38.39 | 35.29 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 11:14:26 | 38.71 | 35.61 | 1,036 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 11:14:27 | 39.04 | 35.94 | 1,036 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 11:14:27 | 39.37 | 36.27 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 11:14:27 | 39.70 | 36.60 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:14:28 | 40.03 | 36.93 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:14:28 | 40.35 | 37.25 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 11:14:28 | 40.68 | 37.58 | 1,032 | 0.26 | 0.31 | 56.4 |
| 4/26/2015 11:14:29 | 41.01 | 37.91 | 1,032 | 0.26 | 0.31 | 56.4 |
| 4/26/2015 11:14:29 | 41.34 | 38.24 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 11:14:29 | 41.67 | 38.57 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:14:30 | 41.99 | 38.89 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 11:14:30 | 42.32 | 39.22 | 1,014 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 11:14:30 | 42.65 | 39.55 | 986 | 0.32 | 0.31 | 53.9 |
| 4/26/2015 11:14:31 | 42.98 | 39.88 | 986 | 0.32 | 0.31 | 53.9 |
| 4/26/2015 11:14:31 | 43.31 | 40.21 | 986 | 0.32 | 0.31 | 53.9 |
| 4/26/2015 11:14:31 | 43.64 | 40.54 | 1,009 | 0.32 | 0.31 | 55.2 |
| 4/26/2015 11:14:32 | 43.96 | 40.86 | 1,006 | 0.32 | 0.31 | 55.0 |
| 4/26/2015 11:14:32 | 44.29 | 41.19 | 1,006 | 0.32 | 0.31 | 55.0 |
| 4/26/2015 11:14:32 | 44.62 | 41.52 | 1,011 | 0.32 | 0.31 | 55.3 |
| 4/26/2015 11:14:33 | 44.95 | 41.85 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/26/2015 11:14:34 | 45.28 | 42.18 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/26/2015 11:14:34 | 45.60 | 42.50 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/26/2015 11:14:34 | 45.93 | 42.83 | 1,014 | 0.33 | 0.31 | 55.5 |
| 4/26/2015 11:14:35 | 46.26 | 43.16 | 1,014 | 0.33 | 0.31 | 55.5 |
| 4/26/2015 11:14:35 | 46.59 | 43.49 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/26/2015 11:14:35 | 46.92 | 43.82 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/26/2015 11:14:36 | 47.24 | 44.14 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/26/2015 11:14:36 | 47.57 | 44.47 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/26/2015 11:14:36 | 47.90 | 44.80 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/26/2015 11:14:37 | 48.23 | 45.13 | 1,015 | 0.32 | 0.31 | 55.5 |
| 4/26/2015 11:14:37 | 48.56 | 45.46 | 1,018 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 11:14:37 | 48.88 | 45.78 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/26/2015 11:14:38 | 49.21 | 46.11 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/26/2015 11:14:43 | 49.54 | 46.44 | 88 | 7.86 | 0.37 | 4.8 |
| 4/26/2015 11:14:45 | 49.87 | 46.77 | 241 | 4.89 | 0.42 | 13.2 |
| 4/26/2015 11:14:48 | 50.20 | 47.10 | 127 | 2.94 | 0.38 | 6.9 |
| 4/26/2015 11:14:49 | 50.53 | 47.43 | 242 | 3.17 | 0.38 | 13.2 |
| 4/26/2015 11:14:54 | 50.85 | 47.75 | 133 | 2.95 | 0.39 | 7.3 |
| 4/26/2015 11:14:59 | 51.18 | 48.08 | 0 | 2.99 | 0.37 | 0.0 |
| 4/26/2015 11:15:02 | 51.51 | 48.41 | 147 | 2.99 | 0.40 | 8.1 |
| 4/26/2015 11:15:06 | 51.84 | 48.74 | 90 | 3.12 | 0.40 | 4.9 |
| 4/26/2015 11:15:12 | 52.17 | 49.07 | 51 | 3.31 | 0.39 | 2.8 |
| 4/26/2015 11:15:18 | 52.49 | 49.39 | 62 | 3.34 | 0.39 | 3.4 |
| 4/26/2015 11:15:20 | 52.82 | 49.72 | 124 | 3.13 | 0.39 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 11:15:21 | 53.15 | 50.05 | 174 | 3.32 | 0.37 | 9.5 |
| 4/26/2015 | 11:15:31 | 53.48 | 50.38 | 17 | 3.27 | 0.40 | 0.9 |
| 4/26/2015 | 11:15:40 | 53.81 | 50.71 | 29 | 2.90 | 0.40 | 1.6 |
| 4/26/2015 | 11:15:49 | 54.13 | 51.03 | 38 | 3.14 | 0.41 | 2.1 |
| 4/26/2015 | 11:15:59 | 54.46 | 51.36 | 38 | 2.88 | 0.41 | 2.1 |

## H269 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:12:25

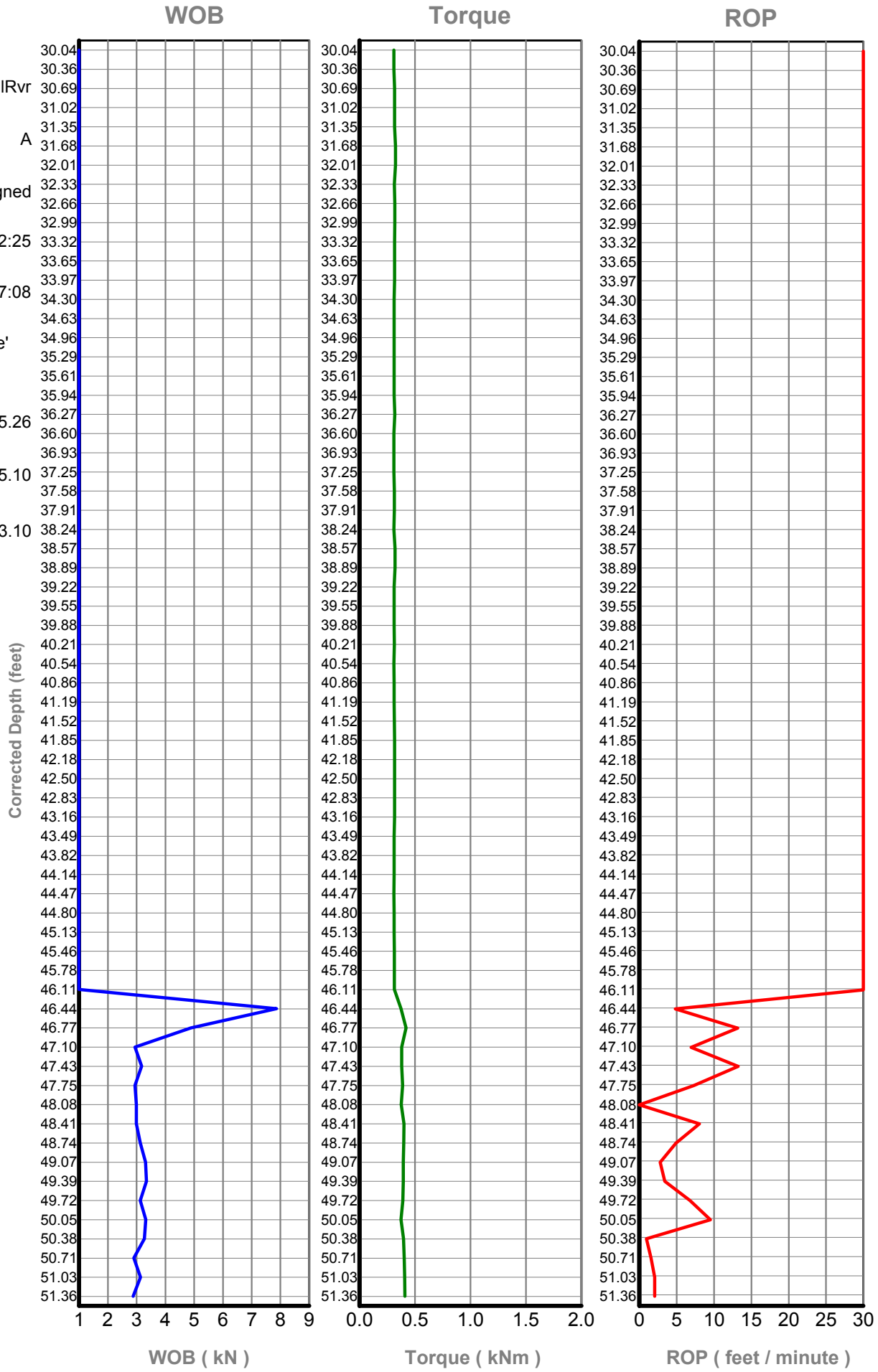
**End Date:**
4/26/2015 11:17:08

**Operator Note:**
'3.1 3.3 b Auto Complete'

**Northing:**
366,005.26

**Easting:**
250,215.10

**Tide (feet):**
3.10



## Hole: H27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 11:32:23 | 32.15 | 30.15 | 847 | 1.98 | 0.30 | 46.3 |
| 4/25/2015 11:32:24 | 32.48 | 30.48 | 847 | 1.98 | 0.30 | 46.3 |
| 4/25/2015 11:32:24 | 32.81 | 30.81 | 832 | 1.96 | 0.30 | 45.5 |
| 4/25/2015 11:32:24 | 33.14 | 31.14 | 839 | 1.97 | 0.30 | 45.9 |
| 4/25/2015 11:32:25 | 33.46 | 31.46 | 824 | 1.96 | 0.30 | 45.0 |
| 4/25/2015 11:32:26 | 33.79 | 31.79 | 828 | 1.95 | 0.30 | 45.3 |
| 4/25/2015 11:32:26 | 34.12 | 32.12 | 828 | 1.95 | 0.30 | 45.3 |
| 4/25/2015 11:32:26 | 34.45 | 32.45 | 831 | 1.98 | 0.30 | 45.4 |
| 4/25/2015 11:32:27 | 34.78 | 32.78 | 843 | 1.96 | 0.30 | 46.1 |
| 4/25/2015 11:32:27 | 35.11 | 33.11 | 827 | 1.97 | 0.30 | 45.2 |
| 4/25/2015 11:32:28 | 35.43 | 33.43 | 815 | 1.98 | 0.30 | 44.5 |
| 4/25/2015 11:32:28 | 35.76 | 33.76 | 823 | 1.92 | 0.30 | 45.0 |
| 4/25/2015 11:32:29 | 36.09 | 34.09 | 823 | 1.92 | 0.30 | 45.0 |
| 4/25/2015 11:32:29 | 36.42 | 34.42 | 828 | 1.84 | 0.29 | 45.3 |
| 4/25/2015 11:32:29 | 36.75 | 34.75 | 825 | 1.85 | 0.30 | 45.1 |
| 4/25/2015 11:32:30 | 37.07 | 35.07 | 802 | 1.85 | 0.30 | 43.9 |
| 4/25/2015 11:32:30 | 37.40 | 35.40 | 813 | 1.85 | 0.29 | 44.4 |
| 4/25/2015 11:32:31 | 37.73 | 35.73 | 801 | 1.84 | 0.29 | 43.8 |
| 4/25/2015 11:32:31 | 38.06 | 36.06 | 771 | 1.83 | 0.30 | 42.1 |
| 4/25/2015 11:32:32 | 38.39 | 36.39 | 749 | 1.84 | 0.29 | 41.0 |
| 4/25/2015 11:32:32 | 38.71 | 36.71 | 769 | 1.86 | 0.29 | 42.1 |
| 4/25/2015 11:32:52 | 39.04 | 37.04 | 9 | 1.79 | 1.08 | 0.5 |
| 4/25/2015 11:32:53 | 39.37 | 37.37 | 73 | 1.76 | 1.09 | 4.0 |
| 4/25/2015 11:32:54 | 39.70 | 37.70 | 170 | 1.79 | 1.09 | 9.3 |
| 4/25/2015 11:32:56 | 40.03 | 38.03 | 214 | 1.81 | 1.15 | 11.7 |
| 4/25/2015 11:32:59 | 40.35 | 38.35 | 170 | 1.76 | 1.17 | 9.3 |
| 4/25/2015 11:38:06 | 40.68 | 38.68 | 0 | 1.79 | 0.29 | 0.0 |
| 4/25/2015 11:39:01 | 41.01 | 39.01 | 90 | 1.77 | 1.30 | 4.9 |
| 4/25/2015 11:39:46 | 41.34 | 39.34 | 34 | 1.77 | 0.29 | 1.9 |
| 4/25/2015 11:39:47 | 41.67 | 39.67 | 106 | 1.74 | 0.29 | 5.8 |
| 4/25/2015 11:39:50 | 41.99 | 39.99 | 155 | 1.74 | 0.29 | 8.5 |
| 4/25/2015 11:39:52 | 42.32 | 40.32 | 184 | 1.77 | 0.30 | 10.1 |
| 4/25/2015 11:39:53 | 42.65 | 40.65 | 222 | 1.75 | 0.31 | 12.1 |
| 4/25/2015 11:39:58 | 42.98 | 40.98 | 113 | 2.61 | 0.88 | 6.2 |
| 4/25/2015 11:39:59 | 43.31 | 41.31 | 161 | 1.78 | 1.12 | 8.8 |
| 4/25/2015 11:40:01 | 43.64 | 41.64 | 191 | 1.76 | 1.12 | 10.4 |
| 4/25/2015 11:40:06 | 43.96 | 41.96 | 56 | 1.78 | 1.07 | 3.0 |
| 4/25/2015 11:40:08 | 44.29 | 42.29 | 123 | 1.79 | 1.09 | 6.8 |
| 4/25/2015 11:40:10 | 44.62 | 42.62 | 183 | 1.75 | 1.17 | 10.0 |
| 4/25/2015 11:40:14 | 44.95 | 42.95 | 14 | 1.76 | 1.13 | 0.8 |
| 4/25/2015 11:40:16 | 45.28 | 43.28 | 135 | 1.74 | 1.13 | 7.4 |
| 4/25/2015 11:40:18 | 45.60 | 43.60 | 228 | 1.74 | 0.92 | 12.5 |
| 4/25/2015 11:40:19 | 45.93 | 43.93 | 236 | 1.76 | 0.91 | 12.9 |
| 4/25/2015 11:40:20 | 46.26 | 44.26 | 229 | 1.79 | 0.92 | 12.5 |
| 4/25/2015 11:40:25 | 46.59 | 44.59 | 23 | 1.77 | 0.96 | 1.2 |
| 4/25/2015 11:40:27 | 46.92 | 44.92 | 119 | 1.77 | 1.04 | 6.5 |
| 4/25/2015 11:52:01 | 47.24 | 45.24 | 4 | 1.77 | 1.07 | 0.2 |
| 4/25/2015 11:52:03 | 47.57 | 45.57 | 122 | 1.77 | 1.05 | 6.7 |
| 4/25/2015 11:52:04 | 47.90 | 45.90 | 219 | 1.82 | 0.94 | 12.0 |
| 4/25/2015 11:52:05 | 48.23 | 46.23 | 240 | 1.76 | 0.96 | 13.1 |
| 4/25/2015 11:52:11 | 48.56 | 46.56 | 114 | 1.79 | 1.00 | 6.2 |
| 4/25/2015 11:52:26 | 48.88 | 46.88 | 9 | 1.76 | 1.10 | 0.5 |
| 4/25/2015 11:52:27 | 49.21 | 47.21 | 132 | 1.74 | 1.15 | 7.2 |
| 4/25/2015 11:52:29 | 49.54 | 47.54 | 210 | 1.74 | 1.15 | 11.5 |
| 4/25/2015 11:52:30 | 49.87 | 47.87 | 246 | 1.75 | 1.05 | 13.5 |
| 4/25/2015 11:52:31 | 50.20 | 48.20 | 267 | 1.80 | 1.28 | 14.6 |
| 4/25/2015 11:52:48 | 50.53 | 48.53 | 5 | 1.79 | 1.37 | 0.3 |
| 4/25/2015 11:52:49 | 50.85 | 48.85 | 186 | 1.79 | 1.09 | 10.2 |
| 4/25/2015 11:52:50 | 51.18 | 49.18 | 286 | 1.76 | 1.20 | 15.6 |
| 4/25/2015 11:52:52 | 51.51 | 49.51 | 248 | 1.81 | 0.98 | 13.6 |
| 4/25/2015 11:52:53 | 51.84 | 49.84 | 247 | 1.79 | 0.97 | 13.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 11:52:53 | 51.97 | 49.97 | 247 | 1.79 | 0.97 | 13.5 |

## H27 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 11:30:30

**End Date:**
4/25/2015 11:55:55

**Operator Note:**
'2 2.0 C Auto Complete'

**Northing:**
366,817.72

**Easting:**
250,517.34

**Tide (feet):**
2.00



## Hole: H270 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 11:11:14 | 33.14 | 30.04 | 633 | 1.77 | 0.30 | 34.6 |
| 4/26/2015 11:11:15 | 33.46 | 30.36 | 633 | 1.79 | 0.30 | 34.6 |
| 4/26/2015 11:11:15 | 33.79 | 30.69 | 633 | 1.76 | 0.30 | 34.6 |
| 4/26/2015 11:11:16 | 34.12 | 31.02 | 633 | 1.77 | 0.30 | 34.6 |
| 4/26/2015 11:11:17 | 34.45 | 31.35 | 633 | 1.78 | 0.30 | 34.6 |
| 4/26/2015 11:11:17 | 34.78 | 31.68 | 629 | 1.76 | 0.30 | 34.4 |
| 4/26/2015 11:11:18 | 35.11 | 32.01 | 633 | 1.78 | 0.30 | 34.6 |
| 4/26/2015 11:11:18 | 35.43 | 32.33 | 633 | 1.79 | 0.30 | 34.6 |
| 4/26/2015 11:11:19 | 35.76 | 32.66 | 630 | 1.77 | 0.30 | 34.5 |
| 4/26/2015 11:11:19 | 36.09 | 32.99 | 633 | 1.76 | 0.30 | 34.6 |
| 4/26/2015 11:11:20 | 36.42 | 33.32 | 633 | 1.79 | 0.30 | 34.6 |
| 4/26/2015 11:11:21 | 36.75 | 33.65 | 623 | 1.77 | 0.30 | 34.1 |
| 4/26/2015 11:11:21 | 37.07 | 33.97 | 623 | 1.77 | 0.30 | 34.1 |
| 4/26/2015 11:11:22 | 37.40 | 34.30 | 630 | 1.79 | 0.30 | 34.4 |
| 4/26/2015 11:11:22 | 37.73 | 34.63 | 627 | 1.78 | 0.30 | 34.3 |
| 4/26/2015 11:11:23 | 38.06 | 34.96 | 628 | 1.77 | 0.30 | 34.3 |
| 4/26/2015 11:11:23 | 38.39 | 35.29 | 624 | 1.76 | 0.30 | 34.1 |
| 4/26/2015 11:11:24 | 38.71 | 35.61 | 638 | 1.76 | 0.28 | 34.9 |
| 4/26/2015 11:11:24 | 39.04 | 35.94 | 627 | 1.79 | 0.30 | 34.3 |
| 4/26/2015 11:11:25 | 39.37 | 36.27 | 634 | 1.77 | 0.30 | 34.7 |
| 4/26/2015 11:11:25 | 39.70 | 36.60 | 627 | 1.77 | 0.30 | 34.3 |
| 4/26/2015 11:11:26 | 40.03 | 36.93 | 633 | 1.78 | 0.30 | 34.6 |
| 4/26/2015 11:11:27 | 40.35 | 37.25 | 633 | 1.77 | 0.30 | 34.6 |
| 4/26/2015 11:11:28 | 40.68 | 37.58 | 627 | 1.76 | 0.30 | 34.3 |
| 4/26/2015 11:11:28 | 41.01 | 37.91 | 637 | 1.77 | 0.30 | 34.8 |
| 4/26/2015 11:11:29 | 41.34 | 38.24 | 630 | 1.78 | 0.30 | 34.5 |
| 4/26/2015 11:11:29 | 41.67 | 38.57 | 630 | 1.78 | 0.30 | 34.5 |
| 4/26/2015 11:11:30 | 41.99 | 38.89 | 624 | 1.78 | 0.30 | 34.1 |
| 4/26/2015 11:11:30 | 42.32 | 39.22 | 630 | 1.76 | 0.30 | 34.5 |
| 4/26/2015 11:11:31 | 42.65 | 39.55 | 624 | 1.76 | 0.30 | 34.1 |
| 4/26/2015 11:11:31 | 42.98 | 39.88 | 625 | 1.78 | 0.30 | 34.2 |
| 4/26/2015 11:11:32 | 43.31 | 40.21 | 624 | 1.78 | 0.22 | 34.1 |
| 4/26/2015 11:11:32 | 43.64 | 40.54 | 631 | 1.77 | 0.30 | 34.5 |
| 4/26/2015 11:11:33 | 43.96 | 40.86 | 617 | 1.77 | 0.30 | 33.8 |
| 4/26/2015 11:11:34 | 44.29 | 41.19 | 617 | 1.77 | 0.30 | 33.8 |
| 4/26/2015 11:11:34 | 44.62 | 41.52 | 621 | 1.78 | 0.29 | 34.0 |
| 4/26/2015 11:11:35 | 44.95 | 41.85 | 625 | 1.78 | 0.29 | 34.2 |
| 4/26/2015 11:11:35 | 45.28 | 42.18 | 621 | 1.78 | 0.29 | 34.0 |
| 4/26/2015 11:11:36 | 45.60 | 42.50 | 618 | 1.78 | 0.30 | 33.8 |
| 4/26/2015 11:11:37 | 45.93 | 42.83 | 635 | 1.79 | 0.29 | 34.7 |
| 4/26/2015 11:11:37 | 46.26 | 43.16 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 11:11:38 | 46.59 | 43.49 | 624 | 1.79 | 0.30 | 34.1 |
| 4/26/2015 11:11:38 | 46.92 | 43.82 | 627 | 1.78 | 0.29 | 34.3 |
| 4/26/2015 11:11:39 | 47.24 | 44.14 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 11:11:40 | 47.57 | 44.47 | 627 | 1.79 | 0.30 | 34.3 |
| 4/26/2015 11:11:40 | 47.90 | 44.80 | 615 | 1.81 | 0.29 | 33.6 |
| 4/26/2015 11:12:02 | 48.23 | 45.13 | 101 | 1.74 | 1.14 | 5.5 |
| 4/26/2015 11:12:19 | 48.56 | 45.46 | 93 | 1.72 | 1.09 | 5.1 |
| 4/26/2015 11:12:21 | 48.88 | 45.78 | 196 | 1.74 | 1.09 | 10.7 |
| 4/26/2015 11:12:38 | 49.21 | 46.11 | 0 | 1.72 | 1.15 | 0.0 |
| 4/26/2015 11:12:40 | 49.54 | 46.44 | 74 | 1.71 | 1.04 | 4.0 |
| 4/26/2015 11:12:41 | 49.87 | 46.77 | 186 | 1.74 | 1.35 | 10.1 |
| 4/26/2015 11:12:43 | 50.20 | 47.10 | 258 | 1.77 | 1.53 | 14.1 |
| 4/26/2015 11:12:55 | 50.53 | 47.43 | 42 | 1.73 | 1.10 | 2.3 |
| 4/26/2015 11:12:57 | 50.85 | 47.75 | 211 | 1.76 | 1.23 | 11.5 |
| 4/26/2015 11:12:59 | 51.18 | 48.08 | 208 | 1.72 | 1.04 | 11.4 |
| 4/26/2015 11:13:23 | 51.51 | 48.41 | 104 | 1.73 | 1.13 | 5.7 |
| 4/26/2015 11:13:25 | 51.84 | 48.74 | 229 | 1.76 | 1.11 | 12.5 |
| 4/26/2015 11:13:27 | 52.17 | 49.07 | 194 | 1.74 | 1.13 | 10.6 |
| 4/26/2015 11:13:28 | 52.49 | 49.39 | 205 | 1.76 | 1.20 | 11.2 |
| 4/26/2015 11:13:30 | 52.82 | 49.72 | 214 | 1.73 | 1.07 | 11.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 11:14:05 | 53.15 | 50.05 | 11 | 1.73 | 1.10 | 0.6 |
| 4/26/2015 | 11:14:08 | 53.48 | 50.38 | 127 | 1.75 | 1.15 | 7.0 |
| 4/26/2015 | 11:14:11 | 53.81 | 50.71 | 124 | 1.76 | 1.12 | 6.8 |
| 4/26/2015 | 11:14:14 | 54.13 | 51.03 | 118 | 1.76 | 1.13 | 6.5 |
| 4/26/2015 | 11:14:17 | 54.46 | 51.36 | 118 | 1.75 | 1.11 | 6.5 |
| 4/26/2015 | 11:14:20 | 54.79 | 51.69 | 100 | 1.76 | 1.12 | 5.5 |
| 4/26/2015 | 11:14:24 | 55.12 | 52.02 | 113 | 2.03 | 1.13 | 6.2 |
| 4/26/2015 | 11:14:28 | 55.45 | 52.35 | 92 | 1.76 | 1.11 | 5.1 |
| 4/26/2015 | 11:14:31 | 55.77 | 52.67 | 95 | 1.76 | 1.06 | 5.2 |
| 4/26/2015 | 11:14:34 | 55.99 | 52.89 | 98 | 1.76 | 1.18 | 5.4 |

## H270 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 11:09:29

**End Date:**
4/26/2015 11:18:01

**Operator Note:**
'3.1 2.4C Auto Complete'

**Northing:**
366,051.08

**Easting:**
250,274.47

**Tide (feet):**
3.10



## Hole: H271 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:14:26 | 32.15 | 30.05 | 959 | 0.19 | 0.33 | 52.4 |
| 4/26/2015 3:14:27 | 32.48 | 30.38 | 966 | 0.19 | 0.32 | 52.8 |
| 4/26/2015 3:14:27 | 32.81 | 30.71 | 966 | 0.19 | 0.32 | 52.8 |
| 4/26/2015 3:14:27 | 33.14 | 31.04 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:14:28 | 33.46 | 31.36 | 951 | 0.19 | 0.33 | 52.0 |
| 4/26/2015 3:14:28 | 33.79 | 31.69 | 951 | 0.19 | 0.32 | 52.0 |
| 4/26/2015 3:14:29 | 34.12 | 32.02 | 951 | 0.19 | 0.32 | 52.0 |
| 4/26/2015 3:14:29 | 34.45 | 32.35 | 966 | 0.19 | 0.33 | 52.8 |
| 4/26/2015 3:14:29 | 34.78 | 32.68 | 960 | 0.19 | 0.32 | 52.5 |
| 4/26/2015 3:14:30 | 35.11 | 33.01 | 960 | 0.19 | 0.32 | 52.5 |
| 4/26/2015 3:14:30 | 35.43 | 33.33 | 957 | 0.18 | 0.32 | 52.3 |
| 4/26/2015 3:14:30 | 35.76 | 33.66 | 951 | 0.18 | 0.32 | 52.0 |
| 4/26/2015 3:14:31 | 36.09 | 33.99 | 960 | 0.22 | 0.33 | 52.5 |
| 4/26/2015 3:14:31 | 36.42 | 34.32 | 960 | 0.22 | 0.33 | 52.5 |
| 4/26/2015 3:14:31 | 36.75 | 34.65 | 948 | 0.18 | 0.32 | 51.8 |
| 4/26/2015 3:14:32 | 37.07 | 34.97 | 942 | 0.18 | 0.32 | 51.5 |
| 4/26/2015 3:14:32 | 37.40 | 35.30 | 942 | 0.18 | 0.32 | 51.5 |
| 4/26/2015 3:14:32 | 37.73 | 35.63 | 942 | 0.19 | 0.32 | 51.5 |
| 4/26/2015 3:14:33 | 38.06 | 35.96 | 951 | 0.18 | 0.33 | 52.0 |
| 4/26/2015 3:14:33 | 38.39 | 36.29 | 945 | 0.18 | 0.32 | 51.7 |
| 4/26/2015 3:14:34 | 38.71 | 36.61 | 945 | 0.18 | 0.32 | 51.7 |
| 4/26/2015 3:14:34 | 39.04 | 36.94 | 951 | 0.18 | 0.32 | 52.0 |
| 4/26/2015 3:14:34 | 39.37 | 37.27 | 960 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 3:14:35 | 39.70 | 37.60 | 960 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 3:14:35 | 40.03 | 37.93 | 965 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:35 | 40.35 | 38.25 | 965 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:36 | 40.68 | 38.58 | 965 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:37 | 41.01 | 38.91 | 965 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:37 | 41.34 | 39.24 | 963 | 0.18 | 0.32 | 52.6 |
| 4/26/2015 3:14:37 | 41.67 | 39.57 | 966 | 0.20 | 0.32 | 52.8 |
| 4/26/2015 3:14:38 | 41.99 | 39.89 | 966 | 0.20 | 0.32 | 52.8 |
| 4/26/2015 3:14:38 | 42.32 | 40.22 | 960 | 0.18 | 0.33 | 52.5 |
| 4/26/2015 3:14:38 | 42.65 | 40.55 | 960 | 0.18 | 0.33 | 52.5 |
| 4/26/2015 3:14:39 | 42.98 | 40.88 | 963 | 0.18 | 0.32 | 52.6 |
| 4/26/2015 3:14:39 | 43.31 | 41.21 | 963 | 0.18 | 0.32 | 52.6 |
| 4/26/2015 3:14:39 | 43.64 | 41.54 | 966 | 0.19 | 0.32 | 52.8 |
| 4/26/2015 3:14:40 | 43.96 | 41.86 | 966 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:40 | 44.29 | 42.19 | 966 | 0.18 | 0.32 | 52.8 |
| 4/26/2015 3:14:40 | 44.62 | 42.52 | 968 | 0.18 | 0.32 | 53.0 |
| 4/26/2015 3:14:41 | 44.95 | 42.85 | 960 | 0.18 | 0.32 | 52.5 |
| 4/26/2015 3:14:41 | 45.28 | 43.18 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:14:42 | 45.60 | 43.50 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:14:42 | 45.93 | 43.83 | 963 | 0.18 | 0.32 | 52.6 |
| 4/26/2015 3:14:42 | 46.26 | 44.16 | 936 | 0.18 | 0.33 | 51.2 |
| 4/26/2015 3:14:43 | 46.59 | 44.49 | 936 | 0.18 | 0.33 | 51.2 |
| 4/26/2015 3:14:43 | 46.92 | 44.82 | 948 | 0.18 | 0.32 | 51.8 |
| 4/26/2015 3:14:43 | 47.24 | 45.14 | 954 | 0.18 | 0.37 | 52.2 |
| 4/26/2015 3:15:07 | 47.57 | 45.47 | 0 | 4.18 | 0.34 | 0.0 |
| 4/26/2015 3:15:08 | 47.90 | 45.80 | 151 | 3.14 | 0.37 | 8.3 |
| 4/26/2015 3:15:10 | 48.23 | 46.13 | 330 | 4.02 | 0.39 | 18.1 |
| 4/26/2015 3:15:12 | 48.56 | 46.46 | 110 | 3.22 | 0.38 | 6.0 |
| 4/26/2015 3:15:13 | 48.88 | 46.78 | 226 | 4.05 | 0.37 | 12.3 |
| 4/26/2015 3:15:22 | 49.21 | 47.11 | 76 | 3.50 | 0.37 | 4.1 |
| 4/26/2015 3:15:22 | 49.54 | 47.44 | 150 | 3.50 | 0.37 | 8.2 |
| 4/26/2015 3:15:23 | 49.87 | 47.77 | 281 | 4.70 | 0.37 | 15.4 |
| 4/26/2015 3:15:24 | 50.20 | 48.10 | 405 | 3.58 | 0.36 | 22.1 |
| 4/26/2015 3:15:25 | 50.53 | 48.43 | 425 | 4.04 | 0.38 | 23.2 |
| 4/26/2015 3:15:34 | 50.85 | 48.75 | 14 | 3.56 | 0.37 | 0.8 |
| 4/26/2015 3:15:34 | 51.18 | 49.08 | 111 | 3.21 | 0.37 | 6.1 |
| 4/26/2015 3:15:35 | 51.51 | 49.41 | 209 | 2.61 | 0.36 | 11.4 |
| 4/26/2015 3:15:36 | 51.84 | 49.74 | 406 | 3.25 | 0.37 | 22.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 3:15:36 | 52.17 | 50.07 | 480 | 3.72 | 0.37 | 26.2 |
| 4/26/2015 | 3:15:37 | 52.49 | 50.39 | 445 | 4.11 | 0.37 | 24.3 |
| 4/26/2015 | 3:15:38 | 52.82 | 50.72 | 419 | 3.04 | 0.37 | 22.9 |
| 4/26/2015 | 3:15:39 | 53.15 | 51.05 | 416 | 4.24 | 0.37 | 22.7 |
| 4/26/2015 | 3:15:40 | 53.48 | 51.38 | 399 | 3.88 | 0.38 | 21.8 |
| 4/26/2015 | 3:15:42 | 53.81 | 51.71 | 321 | 4.17 | 0.38 | 17.5 |
| 4/26/2015 | 3:15:43 | 54.13 | 52.03 | 289 | 3.25 | 0.38 | 15.8 |
| 4/26/2015 | 3:15:44 | 54.46 | 52.36 | 260 | 3.79 | 0.38 | 14.2 |
| 4/26/2015 | 3:15:46 | 54.79 | 52.69 | 236 | 3.64 | 0.38 | 12.9 |
| 4/26/2015 | 3:15:48 | 55.12 | 53.02 | 211 | 5.24 | 0.39 | 11.5 |
| 4/26/2015 | 3:15:50 | 55.45 | 53.35 | 173 | 4.24 | 0.39 | 9.5 |
| 4/26/2015 | 3:15:52 | 55.77 | 53.67 | 208 | 4.36 | 0.38 | 11.4 |
| 4/26/2015 | 3:15:53 | 56.10 | 54.00 | 268 | 3.52 | 0.37 | 14.7 |
| 4/26/2015 | 3:15:53 | 56.43 | 54.33 | 310 | 2.67 | 0.37 | 17.0 |
| 4/26/2015 | 3:15:54 | 56.76 | 54.66 | 388 | 3.13 | 0.37 | 21.2 |
| 4/26/2015 | 3:15:55 | 57.05 | 54.95 | 417 | 3.23 | 0.38 | 22.8 |

## H271 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:07:17

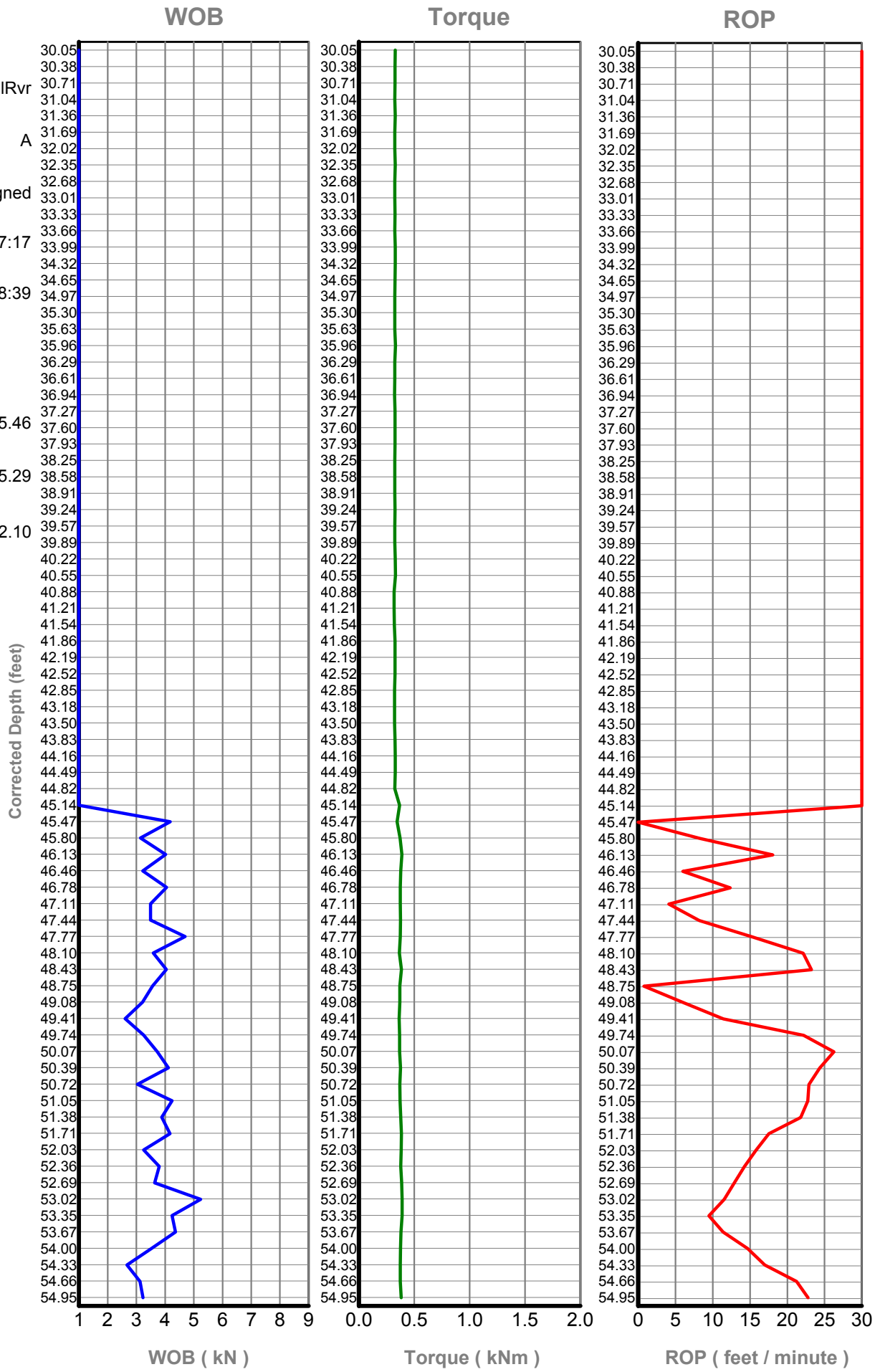
**End Date:**
4/26/2015 3:18:39

**Operator Note:**
'2.1 2 b Auto Complete'

**Northing:**
366,105.46

**Easting:**
250,335.29

**Tide (feet):**
2.10



## Hole: H272 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:14:37 | 32.15 | 30.05 | 538 | 1.81 | 0.16 | 29.4 |
| 4/26/2015 3:14:38 | 32.48 | 30.38 | 538 | 1.79 | 0.16 | 29.4 |
| 4/26/2015 3:14:38 | 32.81 | 30.71 | 535 | 1.79 | 0.16 | 29.2 |
| 4/26/2015 3:14:39 | 33.14 | 31.04 | 538 | 1.80 | 0.16 | 29.4 |
| 4/26/2015 3:14:40 | 33.46 | 31.36 | 538 | 1.81 | 0.16 | 29.4 |
| 4/26/2015 3:14:40 | 33.79 | 31.69 | 538 | 1.85 | 0.16 | 29.4 |
| 4/26/2015 3:14:41 | 34.12 | 32.02 | 541 | 1.56 | 0.17 | 29.6 |
| 4/26/2015 3:14:42 | 34.45 | 32.35 | 529 | 1.80 | 0.16 | 28.9 |
| 4/26/2015 3:14:42 | 34.78 | 32.68 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:43 | 35.11 | 33.01 | 535 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 3:14:44 | 35.43 | 33.33 | 535 | 1.81 | 0.17 | 29.3 |
| 4/26/2015 3:14:44 | 35.76 | 33.66 | 538 | 1.82 | 0.16 | 29.4 |
| 4/26/2015 3:14:45 | 36.09 | 33.99 | 538 | 1.80 | 0.16 | 29.4 |
| 4/26/2015 3:14:46 | 36.42 | 34.32 | 535 | 1.80 | 0.16 | 29.2 |
| 4/26/2015 3:14:47 | 36.75 | 34.65 | 535 | 1.79 | 0.16 | 29.2 |
| 4/26/2015 3:14:47 | 37.07 | 34.97 | 535 | 1.81 | 0.16 | 29.2 |
| 4/26/2015 3:14:48 | 37.40 | 35.30 | 535 | 1.64 | 0.16 | 29.2 |
| 4/26/2015 3:14:49 | 37.73 | 35.63 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:49 | 38.06 | 35.96 | 535 | 1.82 | 0.16 | 29.2 |
| 4/26/2015 3:14:50 | 38.39 | 36.29 | 535 | 1.80 | 0.16 | 29.2 |
| 4/26/2015 3:14:50 | 38.71 | 36.61 | 535 | 1.83 | 0.16 | 29.2 |
| 4/26/2015 3:14:51 | 39.04 | 36.94 | 532 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 3:14:52 | 39.37 | 37.27 | 532 | 1.82 | 0.17 | 29.1 |
| 4/26/2015 3:14:52 | 39.70 | 37.60 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:53 | 40.03 | 37.93 | 532 | 1.82 | 0.16 | 29.1 |
| 4/26/2015 3:14:54 | 40.35 | 38.25 | 535 | 1.81 | 0.16 | 29.2 |
| 4/26/2015 3:14:55 | 40.68 | 38.58 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:55 | 41.01 | 38.91 | 526 | 1.80 | 0.16 | 28.8 |
| 4/26/2015 3:14:56 | 41.34 | 39.24 | 533 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:57 | 41.67 | 39.57 | 533 | 1.81 | 0.17 | 29.1 |
| 4/26/2015 3:14:57 | 41.99 | 39.89 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:14:58 | 42.32 | 40.22 | 538 | 1.81 | 0.16 | 29.4 |
| 4/26/2015 3:14:59 | 42.65 | 40.55 | 532 | 1.83 | 0.16 | 29.1 |
| 4/26/2015 3:14:59 | 42.98 | 40.88 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 3:15:00 | 43.31 | 41.21 | 532 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 3:15:01 | 43.64 | 41.54 | 529 | 1.81 | 0.16 | 28.9 |
| 4/26/2015 3:15:01 | 43.96 | 41.86 | 529 | 1.73 | 0.16 | 28.9 |
| 4/26/2015 3:15:02 | 44.29 | 42.19 | 532 | 1.78 | 0.16 | 29.1 |
| 4/26/2015 3:15:03 | 44.62 | 42.52 | 531 | 1.81 | 0.16 | 29.0 |
| 4/26/2015 3:15:03 | 44.95 | 42.85 | 527 | 1.80 | 0.16 | 28.8 |
| 4/26/2015 3:15:04 | 45.28 | 43.18 | 530 | 1.81 | 0.16 | 29.0 |
| 4/26/2015 3:15:04 | 45.60 | 43.50 | 534 | 1.81 | 0.17 | 29.2 |
| 4/26/2015 3:15:06 | 45.93 | 43.83 | 532 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 3:15:06 | 46.26 | 44.16 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 3:15:07 | 46.59 | 44.49 | 529 | 1.80 | 0.16 | 28.9 |
| 4/26/2015 3:15:08 | 46.92 | 44.82 | 526 | 1.85 | 0.16 | 28.8 |
| 4/26/2015 3:15:29 | 47.24 | 45.14 | 86 | 1.76 | 1.13 | 4.7 |
| 4/26/2015 3:15:34 | 47.57 | 45.47 | 44 | 1.76 | 1.21 | 2.4 |
| 4/26/2015 3:15:36 | 47.90 | 45.80 | 217 | 1.75 | 1.13 | 11.9 |
| 4/26/2015 3:15:37 | 48.23 | 46.13 | 298 | 1.58 | 1.16 | 16.3 |
| 4/26/2015 3:15:47 | 48.56 | 46.46 | 110 | 1.74 | 1.10 | 6.0 |
| 4/26/2015 3:15:48 | 48.88 | 46.78 | 226 | 1.77 | 1.17 | 12.4 |
| 4/26/2015 3:16:03 | 49.21 | 47.11 | 96 | 1.78 | 1.53 | 5.2 |
| 4/26/2015 3:16:04 | 49.54 | 47.44 | 246 | 1.75 | 1.09 | 13.4 |
| 4/26/2015 3:16:11 | 49.87 | 47.77 | 0 | 1.74 | 1.07 | 0.0 |
| 4/26/2015 3:16:12 | 50.20 | 48.10 | 105 | 1.76 | 1.19 | 5.8 |
| 4/26/2015 3:16:14 | 50.53 | 48.43 | 251 | 1.76 | 1.13 | 13.7 |
| 4/26/2015 3:16:32 | 50.85 | 48.75 | 0 | 1.77 | 1.15 | 0.0 |
| 4/26/2015 3:16:33 | 51.18 | 49.08 | 61 | 1.74 | 1.12 | 3.3 |
| 4/26/2015 3:16:34 | 51.51 | 49.41 | 254 | 1.76 | 1.10 | 13.9 |
| 4/26/2015 3:16:36 | 51.84 | 49.74 | 183 | 1.70 | 1.06 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 3:16:37 | 52.17 | 50.07 | 212 | 1.74 | 1.08 | 11.6 |
| 4/26/2015 | 3:16:41 | 52.49 | 50.39 | 62 | 1.80 | 1.01 | 3.4 |
| 4/26/2015 | 3:16:41 | 52.82 | 50.72 | 159 | 1.81 | 1.20 | 8.7 |
| 4/26/2015 | 3:16:53 | 53.15 | 51.05 | 23 | 1.81 | 0.95 | 1.3 |
| 4/26/2015 | 3:16:59 | 53.48 | 51.38 | 6 | 1.81 | 0.95 | 0.3 |
| 4/26/2015 | 3:16:59 | 53.81 | 51.71 | 94 | 1.75 | 0.98 | 5.1 |
| 4/26/2015 | 3:17:01 | 54.13 | 52.03 | 251 | 1.81 | 1.02 | 13.7 |
| 4/26/2015 | 3:17:02 | 54.46 | 52.36 | 402 | 1.74 | 1.04 | 22.0 |
| 4/26/2015 | 3:17:02 | 54.79 | 52.69 | 385 | 1.75 | 1.05 | 21.0 |
| 4/26/2015 | 3:17:03 | 55.12 | 53.02 | 385 | 1.74 | 0.99 | 21.0 |
| 4/26/2015 | 3:17:09 | 55.45 | 53.35 | 11 | 1.76 | 1.06 | 0.6 |
| 4/26/2015 | 3:17:10 | 55.77 | 53.67 | 86 | 1.78 | 1.06 | 4.7 |
| 4/26/2015 | 3:17:12 | 56.10 | 54.00 | 245 | 1.76 | 1.08 | 13.4 |
| 4/26/2015 | 3:17:13 | 56.43 | 54.33 | 234 | 1.73 | 1.11 | 12.8 |
| 4/26/2015 | 3:17:24 | 56.76 | 54.66 | 30 | 1.75 | 1.17 | 1.7 |
| 4/26/2015 | 3:17:25 | 57.04 | 54.94 | 111 | 1.76 | 1.15 | 6.1 |

## H272 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:08:31

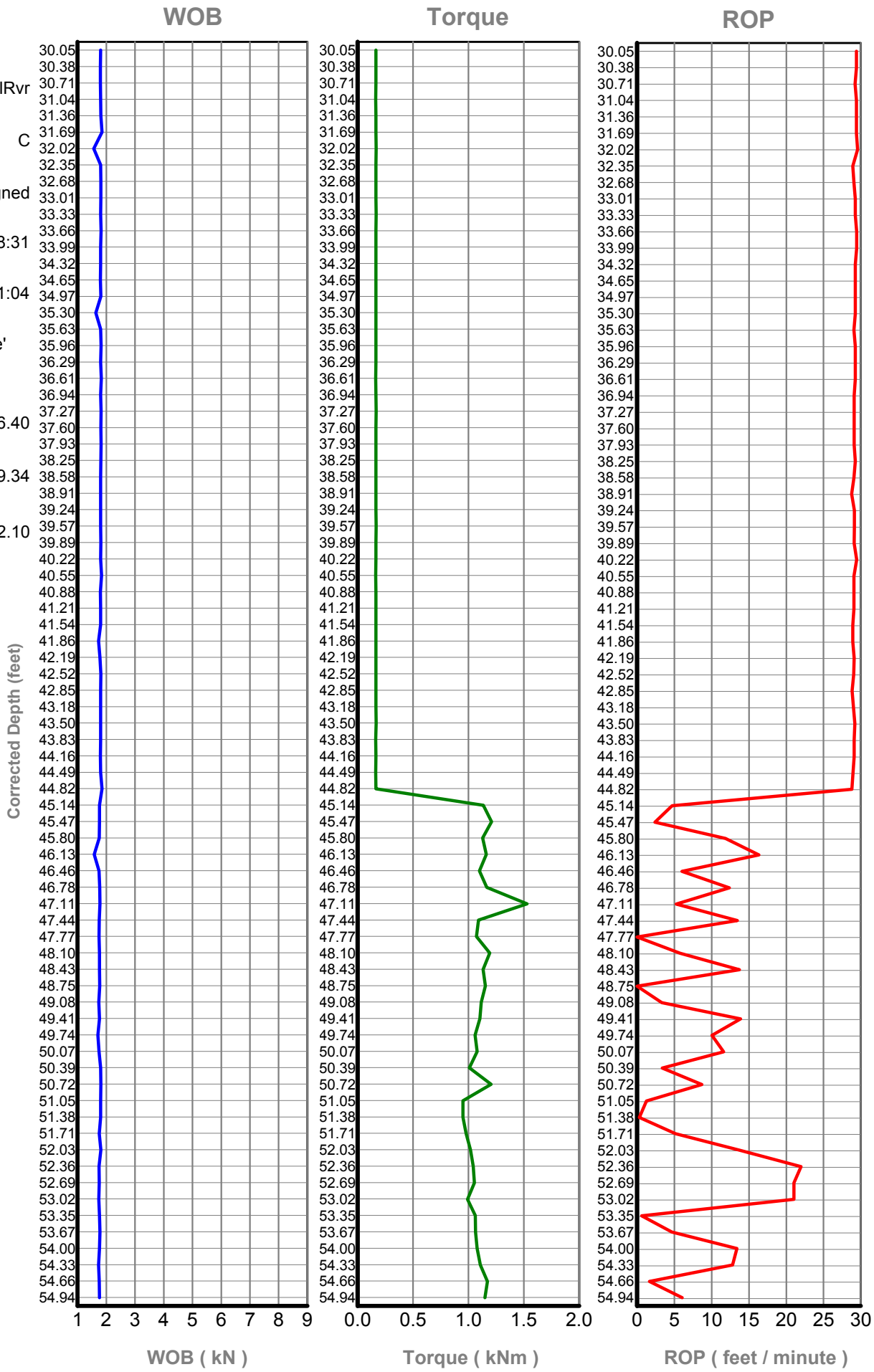
**End Date:**
4/26/2015 3:21:04

**Operator Note:**
'2.1 2.0 c Auto Complete'

**Northing:**
366,146.40

**Easting:**
250,389.34

**Tide (feet):**
2.10



## Hole: H273 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:25:15 | 32.81 | 30.31 | 624 | 1.79 | 0.15 | 34.1 |
| 4/26/2015 3:25:15 | 33.14 | 30.64 | 627 | 1.79 | 0.15 | 34.3 |
| 4/26/2015 3:25:16 | 33.46 | 30.96 | 624 | 1.77 | 0.15 | 34.1 |
| 4/26/2015 3:25:16 | 33.79 | 31.29 | 624 | 1.79 | 0.15 | 34.1 |
| 4/26/2015 3:25:17 | 34.12 | 31.62 | 621 | 1.79 | 0.15 | 33.9 |
| 4/26/2015 3:25:17 | 34.45 | 31.95 | 624 | 1.79 | 0.15 | 34.1 |
| 4/26/2015 3:25:18 | 34.78 | 32.28 | 621 | 1.77 | 0.15 | 34.0 |
| 4/26/2015 3:25:18 | 35.11 | 32.61 | 621 | 1.77 | 0.15 | 34.0 |
| 4/26/2015 3:25:20 | 35.43 | 32.93 | 622 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 3:25:20 | 35.76 | 33.26 | 618 | 1.77 | 0.15 | 33.8 |
| 4/26/2015 3:25:21 | 36.09 | 33.59 | 619 | 1.77 | 0.15 | 33.8 |
| 4/26/2015 3:25:21 | 36.42 | 33.92 | 615 | 1.78 | 0.15 | 33.6 |
| 4/26/2015 3:25:22 | 36.75 | 34.25 | 621 | 1.78 | 0.15 | 34.0 |
| 4/26/2015 3:25:22 | 37.07 | 34.57 | 621 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 3:25:23 | 37.40 | 34.90 | 622 | 1.76 | 0.15 | 34.0 |
| 4/26/2015 3:25:23 | 37.73 | 35.23 | 621 | 1.78 | 0.15 | 34.0 |
| 4/26/2015 3:25:24 | 38.06 | 35.56 | 624 | 1.77 | 0.16 | 34.1 |
| 4/26/2015 3:25:25 | 38.39 | 35.89 | 618 | 1.78 | 0.15 | 33.8 |
| 4/26/2015 3:25:25 | 38.71 | 36.21 | 618 | 1.79 | 0.15 | 33.8 |
| 4/26/2015 3:25:26 | 39.04 | 36.54 | 621 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 3:25:26 | 39.37 | 36.87 | 616 | 1.80 | 0.15 | 33.7 |
| 4/26/2015 3:25:27 | 39.70 | 37.20 | 620 | 1.79 | 0.15 | 33.9 |
| 4/26/2015 3:25:27 | 40.03 | 37.53 | 619 | 1.79 | 0.15 | 33.8 |
| 4/26/2015 3:25:28 | 40.35 | 37.85 | 625 | 1.78 | 0.15 | 34.2 |
| 4/26/2015 3:25:28 | 40.68 | 38.18 | 609 | 1.76 | 0.15 | 33.3 |
| 4/26/2015 3:25:29 | 41.01 | 38.51 | 619 | 1.79 | 0.15 | 33.9 |
| 4/26/2015 3:25:29 | 41.34 | 38.84 | 613 | 1.78 | 0.15 | 33.5 |
| 4/26/2015 3:25:31 | 41.67 | 39.17 | 618 | 1.79 | 0.15 | 33.8 |
| 4/26/2015 3:25:31 | 41.99 | 39.49 | 630 | 1.76 | 0.16 | 34.5 |
| 4/26/2015 3:25:32 | 42.32 | 39.82 | 620 | 1.77 | 0.15 | 33.9 |
| 4/26/2015 3:25:32 | 42.65 | 40.15 | 623 | 1.81 | 0.15 | 34.0 |
| 4/26/2015 3:25:33 | 42.98 | 40.48 | 616 | 1.78 | 0.16 | 33.7 |
| 4/26/2015 3:25:33 | 43.31 | 40.81 | 599 | 1.79 | 0.15 | 32.8 |
| 4/26/2015 3:25:34 | 43.64 | 41.14 | 604 | 1.76 | 0.16 | 33.0 |
| 4/26/2015 3:25:34 | 43.96 | 41.46 | 603 | 1.76 | 0.15 | 33.0 |
| 4/26/2015 3:25:35 | 44.29 | 41.79 | 606 | 1.80 | 0.15 | 33.1 |
| 4/26/2015 3:25:36 | 44.62 | 42.12 | 606 | 1.76 | 0.15 | 33.1 |
| 4/26/2015 3:25:36 | 44.95 | 42.45 | 610 | 1.78 | 0.15 | 33.3 |
| 4/26/2015 3:25:37 | 45.28 | 42.78 | 625 | 1.77 | 0.15 | 34.2 |
| 4/26/2015 3:25:37 | 45.60 | 43.10 | 621 | 1.78 | 0.15 | 34.0 |
| 4/26/2015 3:25:38 | 45.93 | 43.43 | 625 | 1.79 | 0.15 | 34.2 |
| 4/26/2015 3:25:38 | 46.26 | 43.76 | 619 | 1.78 | 0.15 | 33.8 |
| 4/26/2015 3:25:39 | 46.59 | 44.09 | 616 | 1.79 | 0.16 | 33.7 |
| 4/26/2015 3:25:39 | 46.92 | 44.42 | 612 | 1.79 | 0.15 | 33.5 |
| 4/26/2015 3:25:41 | 47.24 | 44.74 | 602 | 1.78 | 0.15 | 32.9 |
| 4/26/2015 3:25:41 | 47.57 | 45.07 | 602 | 1.79 | 0.16 | 32.9 |
| 4/26/2015 3:25:42 | 47.90 | 45.40 | 614 | 1.78 | 0.15 | 33.6 |
| 4/26/2015 3:25:42 | 48.23 | 45.73 | 609 | 1.73 | 0.16 | 33.3 |
| 4/26/2015 3:26:07 | 48.56 | 46.06 | 19 | 1.80 | 1.17 | 1.1 |
| 4/26/2015 3:26:14 | 48.88 | 46.38 | 23 | 1.74 | 1.24 | 1.2 |
| 4/26/2015 3:26:19 | 49.21 | 46.71 | 60 | 1.72 | 1.17 | 3.3 |
| 4/26/2015 3:26:25 | 49.54 | 47.04 | 0 | 1.78 | 1.18 | 0.0 |
| 4/26/2015 3:26:27 | 49.87 | 47.37 | 128 | 1.74 | 1.24 | 7.0 |
| 4/26/2015 3:26:28 | 50.20 | 47.70 | 213 | 1.74 | 1.06 | 11.6 |
| 4/26/2015 3:26:35 | 50.53 | 48.03 | 43 | 1.74 | 1.04 | 2.4 |
| 4/26/2015 3:26:36 | 50.85 | 48.35 | 182 | 1.72 | 1.19 | 10.0 |
| 4/26/2015 3:26:37 | 51.18 | 48.68 | 240 | 1.74 | 1.16 | 13.1 |
| 4/26/2015 3:26:41 | 51.51 | 49.01 | 110 | 1.74 | 0.96 | 6.0 |
| 4/26/2015 3:26:43 | 51.84 | 49.34 | 252 | 1.78 | 1.11 | 13.8 |
| 4/26/2015 3:26:44 | 52.17 | 49.67 | 267 | 1.74 | 1.03 | 14.6 |
| 4/26/2015 3:27:22 | 52.49 | 49.99 | 9 | 1.74 | 1.11 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 3:27:24 | 52.82 | 50.32 | 127 | 1.73 | 1.14 | 6.9 |
| 4/26/2015 | 3:27:26 | 53.15 | 50.65 | 240 | 1.74 | 0.96 | 13.1 |
| 4/26/2015 | 3:27:34 | 53.48 | 50.98 | 20 | 1.89 | 0.96 | 1.1 |
| 4/26/2015 | 3:27:35 | 53.81 | 51.31 | 152 | 1.75 | 0.99 | 8.3 |
| 4/26/2015 | 3:27:37 | 54.13 | 51.63 | 276 | 1.87 | 0.96 | 15.1 |
| 4/26/2015 | 3:27:41 | 54.46 | 51.96 | 10 | 1.67 | 1.54 | 0.5 |
| 4/26/2015 | 3:27:42 | 54.79 | 52.29 | 61 | 1.82 | 1.21 | 3.3 |
| 4/26/2015 | 3:27:43 | 55.12 | 52.62 | 148 | 1.76 | 1.06 | 8.1 |
| 4/26/2015 | 3:27:44 | 55.45 | 52.95 | 304 | 1.71 | 1.20 | 16.6 |
| 4/26/2015 | 3:27:46 | 55.77 | 53.27 | 311 | 1.72 | 1.00 | 17.0 |
| 4/26/2015 | 3:27:47 | 56.10 | 53.60 | 283 | 1.74 | 0.97 | 15.5 |
| 4/26/2015 | 3:27:49 | 56.43 | 53.93 | 203 | 1.76 | 1.53 | 11.1 |
| 4/26/2015 | 3:27:51 | 56.76 | 54.26 | 156 | 1.72 | 1.25 | 8.5 |
| 4/26/2015 | 3:27:52 | 57.09 | 54.59 | 245 | 1.76 | 1.01 | 13.4 |
| 4/26/2015 | 3:27:52 | 57.38 | 54.88 | 245 | 1.68 | 0.94 | 13.4 |

## H273 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:23:31

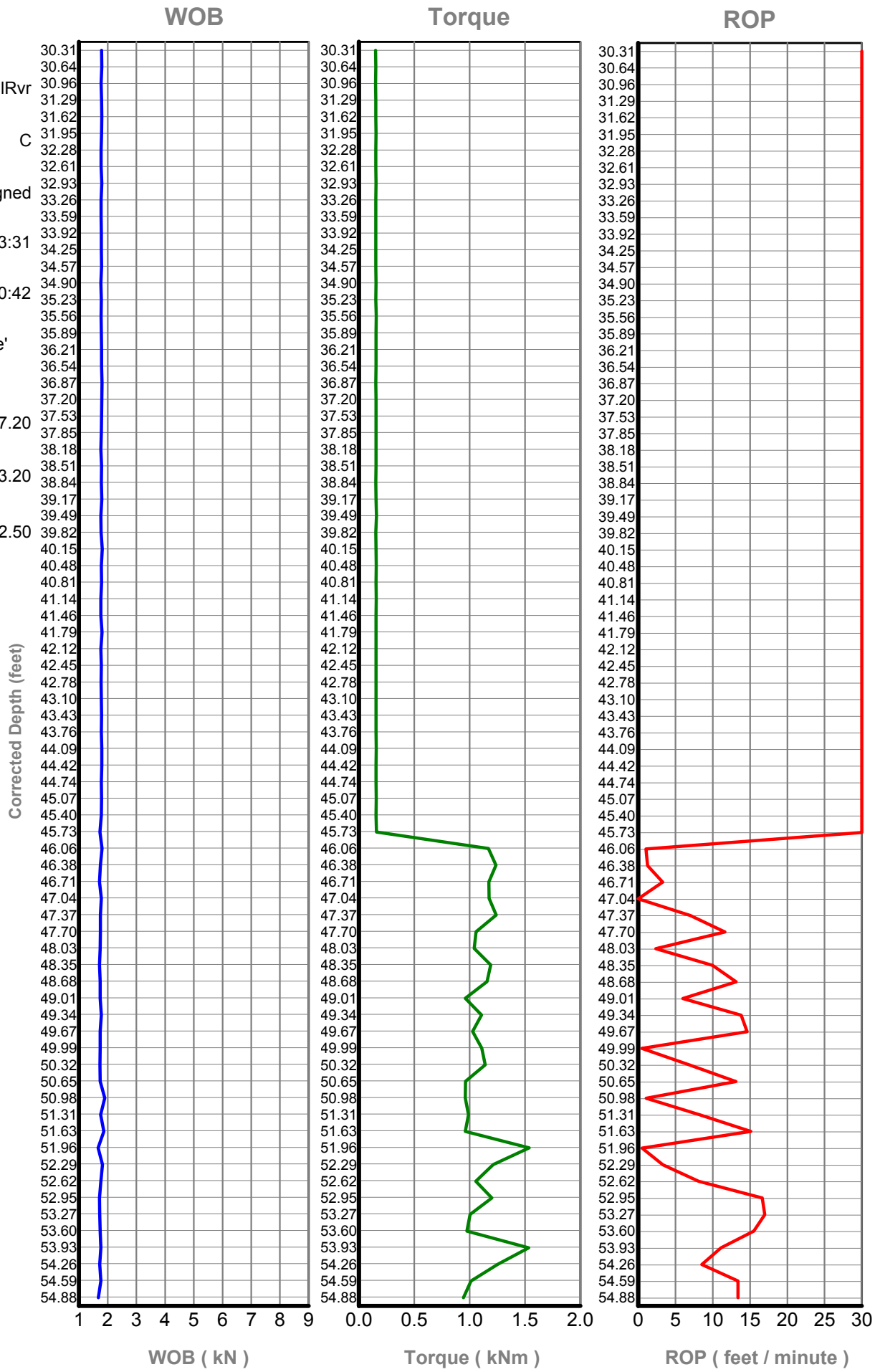
**End Date:**
4/26/2015 3:30:42

**Operator Note:**
'2.5 2.2 c Auto Complete'

**Northing:**
366,187.20

**Easting:**
250,443.20

**Tide (feet):**
2.50



## Hole: H274 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:12:46 | 35.43 | 30.23 | 835 | 0.31 | 0.37 | 45.7 |
| 4/25/2015 20:12:47 | 35.76 | 30.56 | 835 | 0.32 | 0.37 | 45.7 |
| 4/25/2015 20:12:47 | 36.09 | 30.89 | 830 | 0.32 | 0.37 | 45.4 |
| 4/25/2015 20:12:48 | 36.42 | 31.22 | 830 | 0.32 | 0.37 | 45.4 |
| 4/25/2015 20:12:48 | 36.75 | 31.55 | 830 | 0.32 | 0.37 | 45.4 |
| 4/25/2015 20:12:49 | 37.07 | 31.87 | 830 | 0.32 | 0.37 | 45.4 |
| 4/25/2015 20:12:49 | 37.40 | 32.20 | 830 | 0.31 | 0.37 | 45.4 |
| 4/25/2015 20:12:49 | 37.73 | 32.53 | 831 | 0.22 | 0.34 | 45.4 |
| 4/25/2015 20:12:50 | 38.06 | 32.86 | 844 | 0.24 | 0.34 | 46.2 |
| 4/25/2015 20:12:50 | 38.39 | 33.19 | 847 | 0.24 | 0.34 | 46.3 |
| 4/25/2015 20:12:51 | 38.71 | 33.51 | 847 | 0.24 | 0.34 | 46.3 |
| 4/25/2015 20:12:51 | 39.04 | 33.84 | 850 | 0.23 | 0.34 | 46.5 |
| 4/25/2015 20:12:51 | 39.37 | 34.17 | 853 | 0.23 | 0.34 | 46.6 |
| 4/25/2015 20:12:52 | 39.70 | 34.50 | 856 | 0.22 | 0.34 | 46.8 |
| 4/25/2015 20:12:52 | 40.03 | 34.83 | 856 | 0.23 | 0.34 | 46.8 |
| 4/25/2015 20:12:53 | 40.35 | 35.15 | 856 | 0.23 | 0.34 | 46.8 |
| 4/25/2015 20:12:53 | 40.68 | 35.48 | 853 | 0.23 | 0.34 | 46.6 |
| 4/25/2015 20:12:58 | 41.01 | 35.81 | 56 | 0.23 | 0.34 | 3.1 |
| 4/25/2015 20:12:59 | 41.34 | 36.14 | 56 | 0.24 | 0.34 | 3.1 |
| 4/25/2015 20:12:59 | 41.67 | 36.47 | 56 | 0.24 | 0.34 | 3.1 |
| 4/25/2015 20:12:59 | 41.99 | 36.79 | 235 | 0.20 | 0.34 | 12.8 |
| 4/25/2015 20:13:00 | 42.32 | 37.12 | 403 | 0.22 | 0.34 | 22.1 |
| 4/25/2015 20:13:00 | 42.65 | 37.45 | 572 | 0.22 | 0.34 | 31.3 |
| 4/25/2015 20:13:01 | 42.98 | 37.78 | 743 | 0.23 | 0.34 | 40.6 |
| 4/25/2015 20:13:01 | 43.31 | 38.11 | 857 | 0.23 | 0.34 | 46.9 |
| 4/25/2015 20:13:02 | 43.64 | 38.44 | 857 | 0.23 | 0.34 | 46.9 |
| 4/25/2015 20:13:02 | 43.96 | 38.76 | 844 | 0.22 | 0.34 | 46.2 |
| 4/25/2015 20:13:02 | 44.29 | 39.09 | 847 | 0.22 | 0.34 | 46.3 |
| 4/25/2015 20:13:03 | 44.62 | 39.42 | 849 | 0.22 | 0.34 | 46.4 |
| 4/25/2015 20:13:03 | 44.95 | 39.75 | 844 | 0.24 | 0.34 | 46.2 |
| 4/25/2015 20:13:04 | 45.28 | 40.08 | 844 | 0.24 | 0.34 | 46.2 |
| 4/25/2015 20:13:04 | 45.60 | 40.40 | 836 | 0.22 | 0.34 | 45.7 |
| 4/25/2015 20:13:04 | 45.93 | 40.73 | 839 | 0.22 | 0.34 | 45.9 |
| 4/25/2015 20:13:05 | 46.26 | 41.06 | 838 | 0.23 | 0.34 | 45.8 |
| 4/25/2015 20:13:06 | 46.59 | 41.39 | 836 | 0.23 | 0.34 | 45.7 |
| 4/25/2015 20:13:06 | 46.92 | 41.72 | 836 | 0.23 | 0.34 | 45.7 |
| 4/25/2015 20:13:06 | 47.24 | 42.04 | 834 | 0.23 | 0.34 | 45.6 |
| 4/25/2015 20:13:07 | 47.57 | 42.37 | 850 | 0.52 | 0.34 | 46.5 |
| 4/25/2015 20:13:07 | 47.90 | 42.70 | 850 | 0.23 | 0.34 | 46.5 |
| 4/25/2015 20:13:08 | 48.23 | 43.03 | 842 | 0.23 | 0.34 | 46.0 |
| 4/25/2015 20:13:08 | 48.56 | 43.36 | 836 | 0.23 | 0.34 | 45.7 |
| 4/25/2015 20:13:09 | 48.88 | 43.68 | 836 | 0.23 | 0.34 | 45.7 |
| 4/25/2015 20:13:09 | 49.21 | 44.01 | 843 | 0.23 | 0.34 | 46.1 |
| 4/25/2015 20:13:09 | 49.54 | 44.34 | 830 | 0.23 | 0.34 | 45.4 |
| 4/25/2015 20:13:10 | 49.87 | 44.67 | 833 | 0.23 | 0.34 | 45.5 |
| 4/25/2015 20:13:10 | 50.20 | 45.00 | 833 | 0.12 | 0.37 | 45.5 |
| 4/25/2015 20:13:54 | 50.53 | 45.33 | 0 | 2.49 | 0.29 | 0.0 |
| 4/25/2015 20:13:54 | 50.85 | 45.65 | 123 | 2.55 | 0.35 | 6.7 |
| 4/25/2015 20:13:55 | 51.18 | 45.98 | 263 | 3.86 | 0.37 | 14.4 |
| 4/25/2015 20:13:55 | 51.51 | 46.31 | 263 | 4.89 | 0.38 | 14.4 |
| 4/25/2015 20:13:58 | 51.84 | 46.64 | 328 | 4.45 | 0.40 | 18.0 |
| 4/25/2015 20:14:05 | 52.17 | 46.97 | 63 | 4.28 | 0.40 | 3.5 |
| 4/25/2015 20:14:08 | 52.49 | 47.29 | 107 | 3.52 | 0.40 | 5.8 |
| 4/25/2015 20:14:12 | 52.82 | 47.62 | 79 | 3.78 | 0.41 | 4.3 |
| 4/25/2015 20:14:17 | 53.15 | 47.95 | 80 | 4.14 | 0.40 | 4.4 |
| 4/25/2015 20:14:21 | 53.48 | 48.28 | 92 | 4.11 | 0.41 | 5.1 |
| 4/25/2015 20:14:25 | 53.81 | 48.61 | 90 | 4.18 | 0.40 | 4.9 |
| 4/25/2015 20:14:29 | 54.13 | 48.93 | 94 | 4.21 | 0.40 | 5.1 |
| 4/25/2015 20:14:33 | 54.46 | 49.26 | 84 | 3.83 | 0.41 | 4.6 |
| 4/25/2015 20:14:38 | 54.79 | 49.59 | 81 | 4.11 | 0.41 | 4.4 |
| 4/25/2015 20:14:43 | 55.12 | 49.92 | 64 | 3.82 | 0.41 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 20:14:47 | 55.45 | 50.25 | 86 | 4.52 | 0.40 | 4.7 |
| 4/25/2015 | 20:14:52 | 55.77 | 50.57 | 69 | 3.83 | 0.41 | 3.8 |
| 4/25/2015 | 20:14:57 | 56.10 | 50.90 | 78 | 3.86 | 0.41 | 4.3 |
| 4/25/2015 | 20:15:02 | 56.43 | 51.23 | 74 | 3.84 | 0.41 | 4.1 |
| 4/25/2015 | 20:15:06 | 56.76 | 51.56 | 73 | 3.75 | 0.40 | 4.0 |
| 4/25/2015 | 20:15:12 | 57.09 | 51.89 | 69 | 3.71 | 0.41 | 3.8 |
| 4/25/2015 | 20:15:17 | 57.41 | 52.21 | 75 | 4.05 | 0.41 | 4.1 |
| 4/25/2015 | 20:15:22 | 57.74 | 52.54 | 78 | 3.62 | 0.41 | 4.3 |
| 4/25/2015 | 20:15:27 | 58.07 | 52.87 | 72 | 3.73 | 0.42 | 4.0 |
| 4/25/2015 | 20:15:44 | 58.40 | 53.20 | 61 | 3.88 | 0.40 | 3.3 |
| 4/25/2015 | 20:15:50 | 58.73 | 53.53 | 55 | 3.54 | 0.41 | 3.0 |
| 4/25/2015 | 20:15:55 | 59.06 | 53.86 | 84 | 4.13 | 0.40 | 4.6 |
| 4/25/2015 | 20:15:59 | 59.38 | 54.18 | 67 | 3.43 | 0.41 | 3.6 |
| 4/25/2015 | 20:16:04 | 59.71 | 54.51 | 84 | 3.88 | 0.41 | 4.6 |
| 4/25/2015 | 20:16:08 | 60.04 | 54.84 | 75 | 3.52 | 0.40 | 4.1 |
| 4/25/2015 | 20:16:12 | 60.37 | 55.17 | 89 | 3.61 | 0.41 | 4.9 |
| 4/25/2015 | 20:16:16 | 60.62 | 55.42 | 95 | 4.09 | 0.41 | 5.2 |

## H274 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:09:07

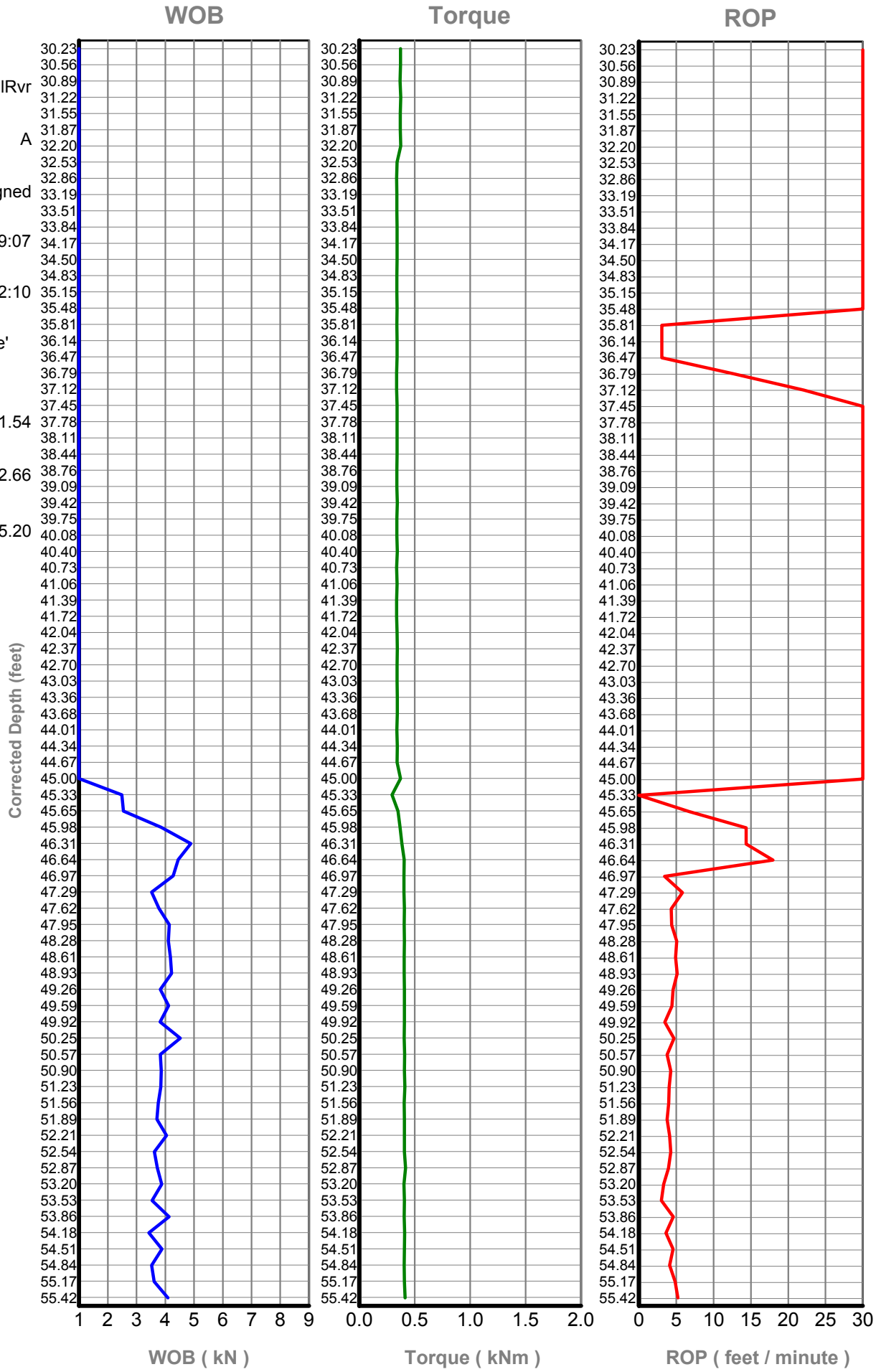
**End Date:**
4/25/2015 20:22:10

**Operator Note:**
'5.2 5.4 b Auto Complete'

**Northing:**
366,251.54

**Easting:**
250,512.66

**Tide (feet):**
5.20



## Hole: H275 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:25:47 | 35.11 | 30.01 | 526 | 1.80 | 0.16 | 28.8 |
| 4/25/2015 20:25:48 | 35.43 | 30.33 | 526 | 1.79 | 0.16 | 28.7 |
| 4/25/2015 20:25:49 | 35.76 | 30.66 | 526 | 1.81 | 0.16 | 28.8 |
| 4/25/2015 20:25:50 | 36.09 | 30.99 | 526 | 1.79 | 0.16 | 28.8 |
| 4/25/2015 20:25:50 | 36.42 | 31.32 | 529 | 1.80 | 0.16 | 28.9 |
| 4/25/2015 20:25:51 | 36.75 | 31.65 | 526 | 1.81 | 0.16 | 28.8 |
| 4/25/2015 20:25:52 | 37.07 | 31.97 | 526 | 1.82 | 0.16 | 28.8 |
| 4/25/2015 20:25:52 | 37.40 | 32.30 | 526 | 1.83 | 0.16 | 28.7 |
| 4/25/2015 20:25:53 | 37.73 | 32.63 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 20:25:54 | 38.06 | 32.96 | 529 | 1.80 | 0.16 | 28.9 |
| 4/25/2015 20:25:54 | 38.39 | 33.29 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 20:25:55 | 38.71 | 33.61 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 20:25:56 | 39.04 | 33.94 | 529 | 1.83 | 0.16 | 28.9 |
| 4/25/2015 20:25:56 | 39.37 | 34.27 | 523 | 1.80 | 0.16 | 28.6 |
| 4/25/2015 20:25:57 | 39.70 | 34.60 | 526 | 1.81 | 0.16 | 28.8 |
| 4/25/2015 20:25:58 | 40.03 | 34.93 | 526 | 1.81 | 0.16 | 28.8 |
| 4/25/2015 20:25:58 | 40.35 | 35.25 | 523 | 1.80 | 0.16 | 28.6 |
| 4/25/2015 20:25:59 | 40.68 | 35.58 | 529 | 1.82 | 0.16 | 28.9 |
| 4/25/2015 20:26:00 | 41.01 | 35.91 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 20:26:01 | 41.34 | 36.24 | 529 | 1.79 | 0.16 | 28.9 |
| 4/25/2015 20:26:01 | 41.67 | 36.57 | 526 | 1.79 | 0.16 | 28.8 |
| 4/25/2015 20:26:02 | 41.99 | 36.89 | 529 | 1.80 | 0.16 | 28.9 |
| 4/25/2015 20:26:03 | 42.32 | 37.22 | 523 | 1.80 | 0.16 | 28.6 |
| 4/25/2015 20:26:03 | 42.65 | 37.55 | 526 | 1.81 | 0.16 | 28.8 |
| 4/25/2015 20:26:04 | 42.98 | 37.88 | 526 | 1.80 | 0.17 | 28.8 |
| 4/25/2015 20:26:05 | 43.31 | 38.21 | 523 | 1.81 | 0.16 | 28.6 |
| 4/25/2015 20:26:05 | 43.64 | 38.54 | 526 | 1.79 | 0.16 | 28.8 |
| 4/25/2015 20:26:06 | 43.96 | 38.86 | 523 | 1.81 | 0.16 | 28.6 |
| 4/25/2015 20:26:07 | 44.29 | 39.19 | 520 | 1.81 | 0.16 | 28.4 |
| 4/25/2015 20:26:07 | 44.62 | 39.52 | 526 | 1.83 | 0.16 | 28.8 |
| 4/25/2015 20:26:08 | 44.95 | 39.85 | 523 | 1.81 | 0.17 | 28.6 |
| 4/25/2015 20:26:09 | 45.28 | 40.18 | 523 | 1.82 | 0.16 | 28.6 |
| 4/25/2015 20:26:12 | 45.60 | 40.50 | 132 | 2.24 | 0.16 | 7.2 |
| 4/25/2015 20:26:13 | 45.93 | 40.83 | 140 | 1.81 | 0.17 | 7.7 |
| 4/25/2015 20:26:13 | 46.26 | 41.16 | 249 | 1.78 | 0.17 | 13.6 |
| 4/25/2015 20:26:14 | 46.59 | 41.49 | 357 | 1.81 | 0.17 | 19.5 |
| 4/25/2015 20:26:14 | 46.92 | 41.82 | 469 | 1.81 | 0.17 | 25.7 |
| 4/25/2015 20:26:15 | 47.24 | 42.14 | 549 | 1.80 | 0.17 | 30.0 |
| 4/25/2015 20:26:16 | 47.57 | 42.47 | 552 | 1.81 | 0.16 | 30.2 |
| 4/25/2015 20:26:16 | 47.90 | 42.80 | 552 | 1.80 | 0.17 | 30.2 |
| 4/25/2015 20:26:17 | 48.23 | 43.13 | 552 | 1.82 | 0.17 | 30.2 |
| 4/25/2015 20:26:18 | 48.56 | 43.46 | 555 | 1.81 | 0.17 | 30.4 |
| 4/25/2015 20:26:18 | 48.88 | 43.78 | 549 | 1.82 | 0.17 | 30.0 |
| 4/25/2015 20:26:19 | 49.21 | 44.11 | 549 | 1.81 | 0.17 | 30.0 |
| 4/25/2015 20:26:20 | 49.54 | 44.44 | 535 | 1.81 | 0.17 | 29.2 |
| 4/25/2015 20:26:21 | 49.87 | 44.77 | 545 | 1.83 | 0.17 | 29.8 |
| 4/25/2015 20:27:24 | 50.20 | 45.10 | 0 | 1.82 | 0.99 | 0.0 |
| 4/25/2015 20:27:25 | 50.53 | 45.43 | 60 | 1.81 | 0.99 | 3.3 |
| 4/25/2015 20:27:26 | 50.85 | 45.75 | 248 | 1.78 | 1.15 | 13.6 |
| 4/25/2015 20:27:28 | 51.18 | 46.08 | 248 | 1.81 | 1.48 | 13.6 |
| 4/25/2015 20:27:35 | 51.51 | 46.41 | 38 | 1.75 | 1.15 | 2.1 |
| 4/25/2015 20:27:45 | 51.84 | 46.74 | 31 | 1.75 | 1.25 | 1.7 |
| 4/25/2015 20:27:46 | 52.17 | 47.07 | 158 | 1.81 | 1.12 | 8.7 |
| 4/25/2015 20:27:48 | 52.49 | 47.39 | 213 | 1.79 | 1.13 | 11.6 |
| 4/25/2015 20:27:59 | 52.82 | 47.72 | 46 | 1.77 | 1.17 | 2.5 |
| 4/25/2015 20:28:01 | 53.15 | 48.05 | 178 | 1.72 | 1.25 | 9.8 |
| 4/25/2015 20:28:02 | 53.48 | 48.38 | 254 | 1.76 | 1.24 | 13.9 |
| 4/25/2015 20:28:38 | 53.81 | 48.71 | 37 | 1.76 | 1.10 | 2.0 |
| 4/25/2015 20:28:39 | 54.13 | 49.03 | 99 | 1.76 | 0.96 | 5.4 |
| 4/25/2015 20:28:40 | 54.46 | 49.36 | 313 | 1.73 | 1.18 | 17.1 |
| 4/25/2015 20:28:41 | 54.79 | 49.69 | 315 | 1.76 | 1.19 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 20:28:43 | 55.12 | 50.02 | 243 | 1.76 | 1.09 | 13.3 |
| 4/25/2015 | 20:28:44 | 55.45 | 50.35 | 252 | 1.77 | 1.14 | 13.8 |
| 4/25/2015 | 20:29:13 | 55.77 | 50.67 | 81 | 1.74 | 1.05 | 4.4 |
| 4/25/2015 | 20:29:14 | 56.10 | 51.00 | 238 | 1.74 | 1.04 | 13.0 |
| 4/25/2015 | 20:29:15 | 56.43 | 51.33 | 268 | 1.73 | 1.03 | 14.7 |
| 4/25/2015 | 20:29:17 | 56.76 | 51.66 | 276 | 1.76 | 1.02 | 15.1 |
| 4/25/2015 | 20:29:25 | 57.09 | 51.99 | 94 | 1.78 | 1.17 | 5.2 |
| 4/25/2015 | 20:29:27 | 57.41 | 52.31 | 213 | 1.78 | 1.16 | 11.6 |
| 4/25/2015 | 20:29:31 | 57.74 | 52.64 | 52 | 1.75 | 1.05 | 2.8 |
| 4/25/2015 | 20:29:32 | 58.07 | 52.97 | 129 | 1.75 | 1.30 | 7.1 |
| 4/25/2015 | 20:29:33 | 58.40 | 53.30 | 254 | 1.74 | 0.96 | 13.9 |
| 4/25/2015 | 20:29:36 | 58.73 | 53.63 | 113 | 1.79 | 1.08 | 6.2 |
| 4/25/2015 | 20:29:39 | 59.06 | 53.96 | 133 | 1.78 | 1.44 | 7.3 |
| 4/25/2015 | 20:29:41 | 59.38 | 54.28 | 180 | 1.79 | 1.14 | 9.9 |
| 4/25/2015 | 20:29:43 | 59.71 | 54.61 | 158 | 1.79 | 1.18 | 8.6 |
| 4/25/2015 | 20:29:46 | 60.04 | 54.94 | 134 | 1.79 | 1.17 | 7.3 |
| 4/25/2015 | 20:29:47 | 60.25 | 55.15 | 131 | 1.79 | 1.13 | 7.1 |

## H275 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:23:34

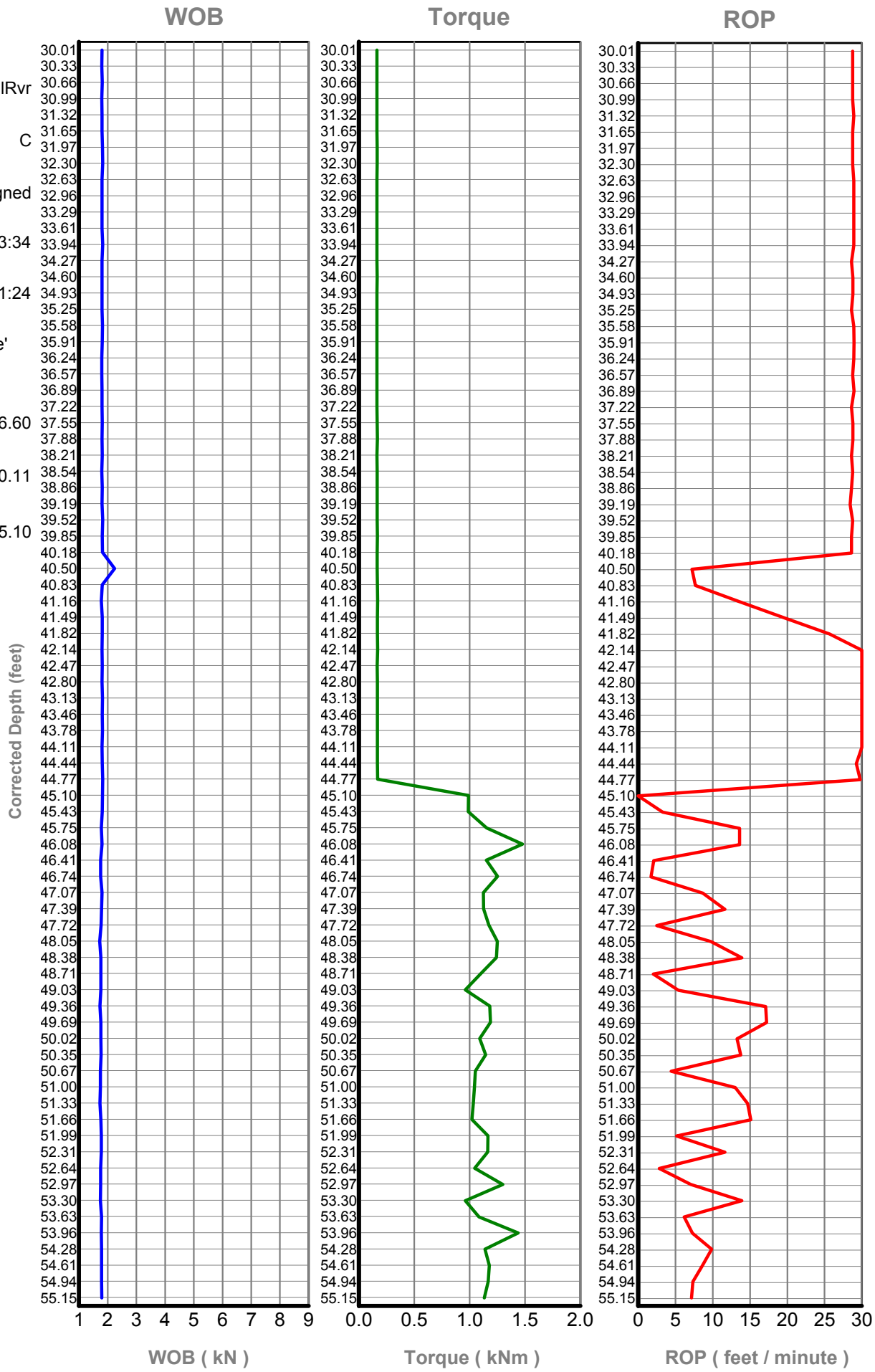
**End Date:**
4/25/2015 20:31:24

**Operator Note:**
'5.1 5.2 c Auto Complete'

**Northing:**
366,286.60

**Easting:**
250,560.11

**Tide (feet):**
5.10



## Hole: H276 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 20:12:32 | 35.43 | 30.23 | 514 | 1.82 | 0.18 | 28.1 |
| 4/25/2015 20:12:32 | 35.76 | 30.56 | 518 | 1.83 | 0.17 | 28.3 |
| 4/25/2015 20:12:33 | 36.09 | 30.89 | 516 | 1.83 | 0.17 | 28.2 |
| 4/25/2015 20:12:34 | 36.42 | 31.22 | 513 | 1.82 | 0.17 | 28.0 |
| 4/25/2015 20:12:34 | 36.75 | 31.55 | 519 | 1.82 | 0.18 | 28.4 |
| 4/25/2015 20:12:35 | 37.07 | 31.87 | 513 | 1.83 | 0.17 | 28.0 |
| 4/25/2015 20:12:36 | 37.40 | 32.20 | 521 | 1.81 | 0.17 | 28.5 |
| 4/25/2015 20:12:36 | 37.73 | 32.53 | 518 | 1.82 | 0.18 | 28.3 |
| 4/25/2015 20:12:37 | 38.06 | 32.86 | 515 | 1.83 | 0.17 | 28.1 |
| 4/25/2015 20:12:38 | 38.39 | 33.19 | 506 | 1.83 | 0.18 | 27.7 |
| 4/25/2015 20:12:39 | 38.71 | 33.51 | 512 | 1.81 | 0.17 | 28.0 |
| 4/25/2015 20:12:40 | 39.04 | 33.84 | 501 | 1.84 | 0.18 | 27.4 |
| 4/25/2015 20:12:40 | 39.37 | 34.17 | 507 | 1.83 | 0.17 | 27.7 |
| 4/25/2015 20:12:41 | 39.70 | 34.50 | 502 | 1.85 | 0.17 | 27.5 |
| 4/25/2015 20:12:42 | 40.03 | 34.83 | 504 | 1.81 | 0.17 | 27.6 |
| 4/25/2015 20:12:42 | 40.35 | 35.15 | 510 | 1.83 | 0.17 | 27.9 |
| 4/25/2015 20:12:43 | 40.68 | 35.48 | 516 | 1.83 | 0.09 | 28.2 |
| 4/25/2015 20:12:44 | 41.01 | 35.81 | 520 | 1.83 | 0.17 | 28.4 |
| 4/25/2015 20:12:44 | 41.34 | 36.14 | 512 | 1.83 | 0.17 | 28.0 |
| 4/25/2015 20:12:45 | 41.67 | 36.47 | 512 | 1.82 | 0.17 | 28.0 |
| 4/25/2015 20:12:46 | 41.99 | 36.79 | 509 | 1.83 | 0.17 | 27.8 |
| 4/25/2015 20:12:46 | 42.32 | 37.12 | 509 | 1.84 | 0.17 | 27.8 |
| 4/25/2015 20:12:47 | 42.65 | 37.45 | 509 | 1.83 | 0.17 | 27.8 |
| 4/25/2015 20:12:48 | 42.98 | 37.78 | 506 | 1.83 | 0.17 | 27.7 |
| 4/25/2015 20:12:49 | 43.31 | 38.11 | 503 | 1.83 | 0.17 | 27.5 |
| 4/25/2015 20:12:49 | 43.64 | 38.44 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 20:12:50 | 43.96 | 38.76 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 20:12:51 | 44.29 | 39.09 | 503 | 1.83 | 0.17 | 27.5 |
| 4/25/2015 20:12:51 | 44.62 | 39.42 | 509 | 1.84 | 0.17 | 27.8 |
| 4/25/2015 20:12:52 | 44.95 | 39.75 | 506 | 1.82 | 0.17 | 27.7 |
| 4/25/2015 20:12:53 | 45.28 | 40.08 | 503 | 1.83 | 0.17 | 27.5 |
| 4/25/2015 20:12:54 | 45.60 | 40.40 | 503 | 1.83 | 0.17 | 27.5 |
| 4/25/2015 20:12:54 | 45.93 | 40.73 | 506 | 1.84 | 0.17 | 27.7 |
| 4/25/2015 20:12:55 | 46.26 | 41.06 | 506 | 1.84 | 0.17 | 27.7 |
| 4/25/2015 20:12:56 | 46.59 | 41.39 | 509 | 1.83 | 0.17 | 27.8 |
| 4/25/2015 20:12:56 | 46.92 | 41.72 | 509 | 1.84 | 0.17 | 27.8 |
| 4/25/2015 20:12:57 | 47.24 | 42.04 | 506 | 1.85 | 0.17 | 27.7 |
| 4/25/2015 20:12:58 | 47.57 | 42.37 | 506 | 2.00 | 0.18 | 27.7 |
| 4/25/2015 20:13:06 | 47.90 | 42.70 | 79 | 1.81 | 0.17 | 4.3 |
| 4/25/2015 20:13:27 | 48.23 | 43.03 | 0 | 2.86 | 0.17 | 0.0 |
| 4/25/2015 20:13:29 | 48.56 | 43.36 | 131 | 1.82 | 0.17 | 7.2 |
| 4/25/2015 20:13:29 | 48.88 | 43.68 | 216 | 1.83 | 0.17 | 11.8 |
| 4/25/2015 20:13:30 | 49.21 | 44.01 | 316 | 1.83 | 0.17 | 17.3 |
| 4/25/2015 20:13:31 | 49.54 | 44.34 | 407 | 1.83 | 0.17 | 22.3 |
| 4/25/2015 20:13:32 | 49.87 | 44.67 | 467 | 1.82 | 0.16 | 25.5 |
| 4/25/2015 20:13:32 | 50.20 | 45.00 | 477 | 1.83 | 0.17 | 26.1 |
| 4/25/2015 20:15:15 | 50.53 | 45.33 | 69 | 1.85 | 1.04 | 3.8 |
| 4/25/2015 20:15:16 | 50.85 | 45.65 | 155 | 1.83 | 1.05 | 8.5 |
| 4/25/2015 20:15:17 | 51.18 | 45.98 | 326 | 1.79 | 1.20 | 17.8 |
| 4/25/2015 20:15:18 | 51.51 | 46.31 | 347 | 1.75 | 1.14 | 19.0 |
| 4/25/2015 20:15:23 | 51.84 | 46.64 | 92 | 1.79 | 1.21 | 5.0 |
| 4/25/2015 20:15:25 | 52.17 | 46.97 | 217 | 1.81 | 1.24 | 11.8 |
| 4/25/2015 20:15:36 | 52.49 | 47.29 | 0 | 1.76 | 1.10 | 0.0 |
| 4/25/2015 20:15:37 | 52.82 | 47.62 | 142 | 1.82 | 1.01 | 7.8 |
| 4/25/2015 20:15:38 | 53.15 | 47.95 | 223 | 1.85 | 1.01 | 12.2 |
| 4/25/2015 20:15:53 | 53.48 | 48.28 | 107 | 1.74 | 1.23 | 5.9 |
| 4/25/2015 20:15:59 | 53.81 | 48.61 | 44 | 1.71 | 1.21 | 2.4 |
| 4/25/2015 20:16:04 | 54.13 | 48.93 | 6 | 1.79 | 1.00 | 0.3 |
| 4/25/2015 20:16:06 | 54.46 | 49.26 | 144 | 1.81 | 1.12 | 7.9 |
| 4/25/2015 20:16:07 | 54.79 | 49.59 | 284 | 1.81 | 1.08 | 15.5 |
| 4/25/2015 20:16:44 | 55.12 | 49.92 | 20 | 1.76 | 1.39 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 20:16:45 | 55.45 | 50.25 | 129 | 1.80 | 1.35 | 7.1 |
| 4/25/2015 | 20:16:50 | 55.77 | 50.57 | 15 | 1.79 | 1.10 | 0.8 |
| 4/25/2015 | 20:16:52 | 56.10 | 50.90 | 142 | 1.82 | 1.11 | 7.7 |
| 4/25/2015 | 20:16:53 | 56.43 | 51.23 | 208 | 1.79 | 1.29 | 11.4 |
| 4/25/2015 | 20:17:17 | 56.76 | 51.56 | 65 | 1.77 | 1.12 | 3.5 |
| 4/25/2015 | 20:17:20 | 57.09 | 51.89 | 176 | 1.79 | 1.21 | 9.6 |
| 4/25/2015 | 20:17:36 | 57.41 | 52.21 | 29 | 1.76 | 1.25 | 1.6 |
| 4/25/2015 | 20:17:38 | 57.74 | 52.54 | 182 | 1.76 | 1.17 | 9.9 |
| 4/25/2015 | 20:17:56 | 58.07 | 52.87 | 95 | 1.79 | 1.16 | 5.2 |
| 4/25/2015 | 20:17:58 | 58.40 | 53.20 | 173 | 1.78 | 1.19 | 9.5 |
| 4/25/2015 | 20:18:01 | 58.73 | 53.53 | 168 | 1.71 | 1.14 | 9.2 |
| 4/25/2015 | 20:18:02 | 59.06 | 53.86 | 169 | 1.77 | 1.09 | 9.3 |
| 4/25/2015 | 20:18:04 | 59.38 | 54.18 | 196 | 1.77 | 1.07 | 10.7 |
| 4/25/2015 | 20:18:05 | 59.71 | 54.51 | 210 | 1.79 | 1.04 | 11.5 |
| 4/25/2015 | 20:18:16 | 60.04 | 54.84 | 110 | 1.75 | 1.07 | 6.0 |
| 4/25/2015 | 20:18:21 | 60.37 | 55.17 | 43 | 1.66 | 1.19 | 2.4 |

## H276 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 20:09:51

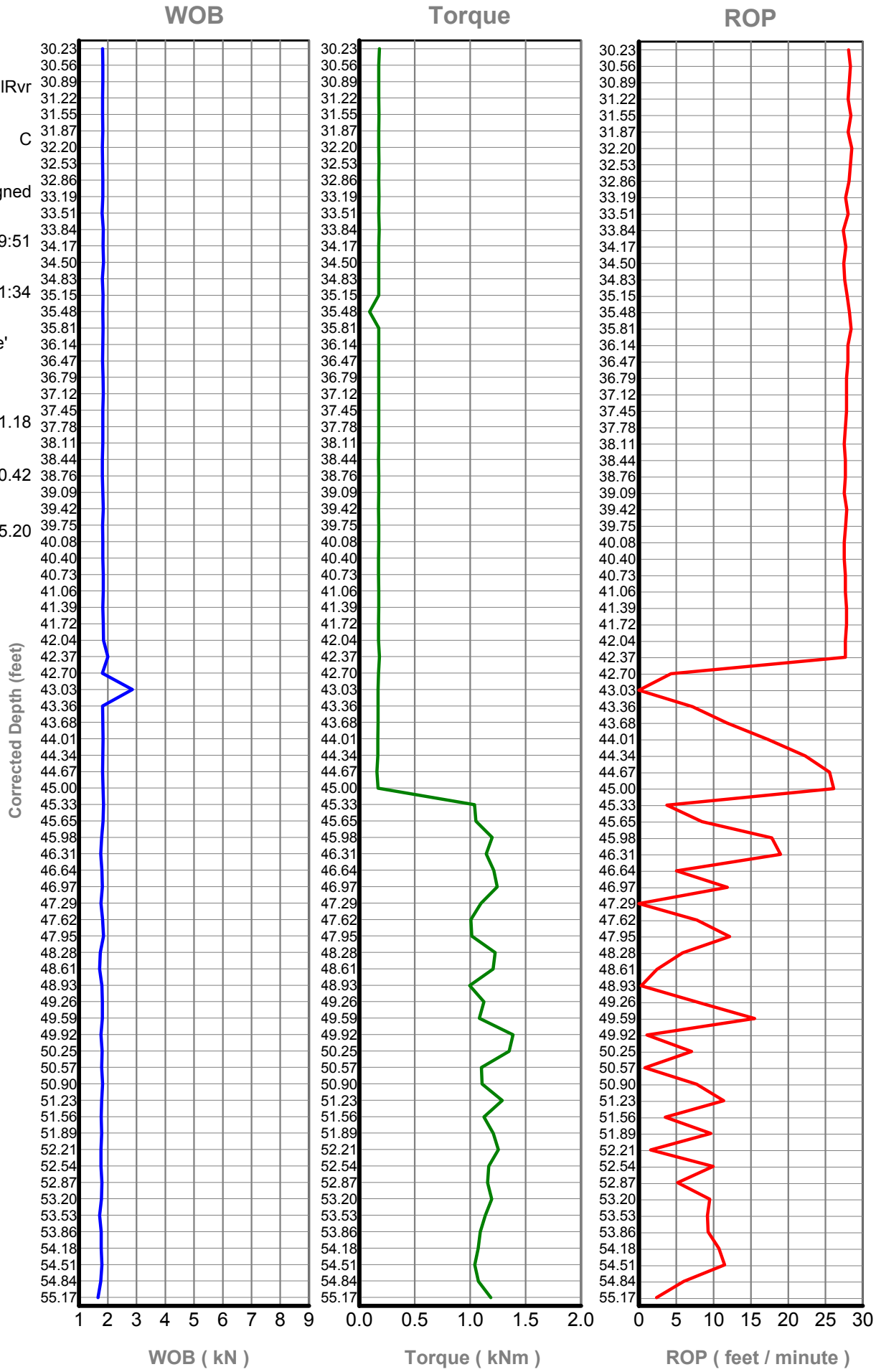
**End Date:**
4/25/2015 20:21:34

**Operator Note:**
'5.2 5.4 c Auto Complete'

**Northing:**
366,331.18

**Easting:**
250,620.42

**Tide (feet):**
5.20



## Hole: H277 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:56:54 | 30.84 | 30.24 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 13:56:54 | 31.17 | 30.57 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 13:56:55 | 31.50 | 30.90 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 13:56:55 | 31.82 | 31.22 | 1,038 | 0.32 | 0.30 | 56.8 |
| 4/25/2015 13:56:55 | 32.15 | 31.55 | 1,053 | 0.31 | 0.31 | 57.6 |
| 4/25/2015 13:56:56 | 32.48 | 31.88 | 1,053 | 0.31 | 0.31 | 57.6 |
| 4/25/2015 13:56:56 | 32.81 | 32.21 | 1,063 | 0.33 | 0.31 | 58.1 |
| 4/25/2015 13:56:56 | 33.14 | 32.54 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/25/2015 13:56:57 | 33.46 | 32.86 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/25/2015 13:56:57 | 33.79 | 33.19 | 1,089 | 0.32 | 0.32 | 59.6 |
| 4/25/2015 13:56:57 | 34.12 | 33.52 | 1,089 | 0.32 | 0.32 | 59.6 |
| 4/25/2015 13:56:57 | 34.45 | 33.85 | 1,079 | 0.33 | 0.31 | 59.0 |
| 4/25/2015 13:56:58 | 34.78 | 34.18 | 1,073 | 0.32 | 0.31 | 58.7 |
| 4/25/2015 13:56:58 | 35.11 | 34.51 | 1,073 | 0.32 | 0.31 | 58.7 |
| 4/25/2015 13:56:58 | 35.43 | 34.83 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/25/2015 13:56:59 | 35.76 | 35.16 | 1,067 | 0.32 | 0.31 | 58.3 |
| 4/25/2015 13:56:59 | 36.09 | 35.49 | 1,067 | 0.32 | 0.31 | 58.3 |
| 4/25/2015 13:56:59 | 36.42 | 35.82 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 13:57:00 | 36.75 | 36.15 | 1,062 | 0.33 | 0.31 | 58.1 |
| 4/25/2015 13:57:00 | 37.07 | 36.47 | 1,062 | 0.33 | 0.31 | 58.1 |
| 4/25/2015 13:57:00 | 37.40 | 36.80 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 13:57:01 | 37.73 | 37.13 | 1,053 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 13:57:01 | 38.06 | 37.46 | 1,053 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 13:57:01 | 38.39 | 37.79 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 13:57:02 | 38.71 | 38.11 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/25/2015 13:57:02 | 39.04 | 38.44 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/25/2015 13:57:02 | 39.37 | 38.77 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 13:57:03 | 39.70 | 39.10 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 13:57:03 | 40.03 | 39.43 | 1,059 | 0.32 | 0.31 | 57.9 |
| 4/25/2015 13:57:03 | 40.35 | 39.75 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/25/2015 13:57:04 | 40.68 | 40.08 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/25/2015 13:57:04 | 41.01 | 40.41 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/25/2015 13:57:05 | 41.34 | 40.74 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/25/2015 13:57:05 | 41.67 | 41.07 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/25/2015 13:57:05 | 41.99 | 41.39 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 13:57:06 | 42.32 | 41.72 | 1,049 | 0.32 | 0.31 | 57.3 |
| 4/25/2015 13:57:06 | 42.65 | 42.05 | 1,049 | 0.32 | 0.31 | 57.3 |
| 4/25/2015 13:57:06 | 42.98 | 42.38 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 13:57:07 | 43.31 | 42.71 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 13:57:07 | 43.64 | 43.04 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 13:57:07 | 43.96 | 43.36 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 13:57:08 | 44.29 | 43.69 | 1,072 | 0.32 | 0.31 | 58.6 |
| 4/25/2015 13:57:08 | 44.62 | 44.02 | 1,072 | 0.32 | 0.31 | 58.6 |
| 4/25/2015 13:57:08 | 44.95 | 44.35 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/25/2015 13:57:09 | 45.28 | 44.68 | 1,055 | 0.32 | 0.31 | 57.7 |
| 4/25/2015 13:57:09 | 45.60 | 45.00 | 1,055 | 0.32 | 0.31 | 57.7 |
| 4/25/2015 13:57:09 | 45.93 | 45.33 | 1,052 | 0.30 | 0.36 | 57.5 |
| 4/25/2015 13:57:21 | 46.26 | 45.66 | 32 | 5.46 | 0.39 | 1.8 |
| 4/25/2015 13:57:23 | 46.59 | 45.99 | 118 | 4.15 | 0.38 | 6.4 |
| 4/25/2015 13:57:24 | 46.92 | 46.32 | 183 | 2.38 | 0.37 | 10.0 |
| 4/25/2015 13:57:26 | 47.24 | 46.64 | 326 | 3.13 | 0.38 | 17.8 |
| 4/25/2015 13:57:31 | 47.57 | 46.97 | 0 | 3.29 | 0.37 | 0.0 |
| 4/25/2015 13:57:32 | 47.90 | 47.30 | 122 | 4.17 | 0.38 | 6.7 |
| 4/25/2015 13:57:40 | 48.23 | 47.63 | 0 | 3.81 | 0.37 | 0.0 |
| 4/25/2015 13:57:41 | 48.56 | 47.96 | 138 | 4.68 | 0.38 | 7.5 |
| 4/25/2015 13:57:42 | 48.88 | 48.28 | 283 | 2.73 | 0.36 | 15.5 |
| 4/25/2015 13:57:47 | 49.21 | 48.61 | 0 | 3.17 | 0.35 | 0.0 |
| 4/25/2015 13:57:48 | 49.54 | 48.94 | 145 | 3.36 | 0.36 | 7.9 |
| 4/25/2015 13:57:48 | 49.87 | 49.27 | 248 | 2.64 | 0.36 | 13.5 |
| 4/25/2015 13:57:49 | 50.20 | 49.60 | 438 | 5.01 | 0.37 | 24.0 |
| 4/25/2015 13:57:54 | 50.53 | 49.93 | 80 | 3.69 | 0.37 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:57:55 | 50.85 | 50.25 | 213 | 3.92 | 0.38 | 11.7 |
| 4/25/2015 | 13:58:02 | 51.18 | 50.58 | 81 | 3.18 | 0.37 | 4.4 |
| 4/25/2015 | 13:58:03 | 51.51 | 50.91 | 212 | 3.35 | 0.37 | 11.6 |
| 4/25/2015 | 13:58:13 | 51.84 | 51.24 | 0 | 2.54 | 0.36 | 0.0 |
| 4/25/2015 | 13:58:14 | 52.17 | 51.57 | 70 | 3.18 | 0.37 | 3.8 |
| 4/25/2015 | 13:58:15 | 52.49 | 51.89 | 175 | 3.52 | 0.37 | 9.6 |
| 4/25/2015 | 13:58:17 | 52.82 | 52.22 | 370 | 3.14 | 0.40 | 20.2 |
| 4/25/2015 | 13:58:22 | 53.15 | 52.55 | 64 | 3.07 | 0.40 | 3.5 |
| 4/25/2015 | 13:58:30 | 53.48 | 52.88 | 49 | 3.44 | 0.39 | 2.7 |
| 4/25/2015 | 13:58:38 | 53.81 | 53.21 | 43 | 3.41 | 0.40 | 2.4 |
| 4/25/2015 | 13:58:43 | 53.98 | 53.38 | 38 | 3.12 | 0.40 | 2.1 |

## H277 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:55:10

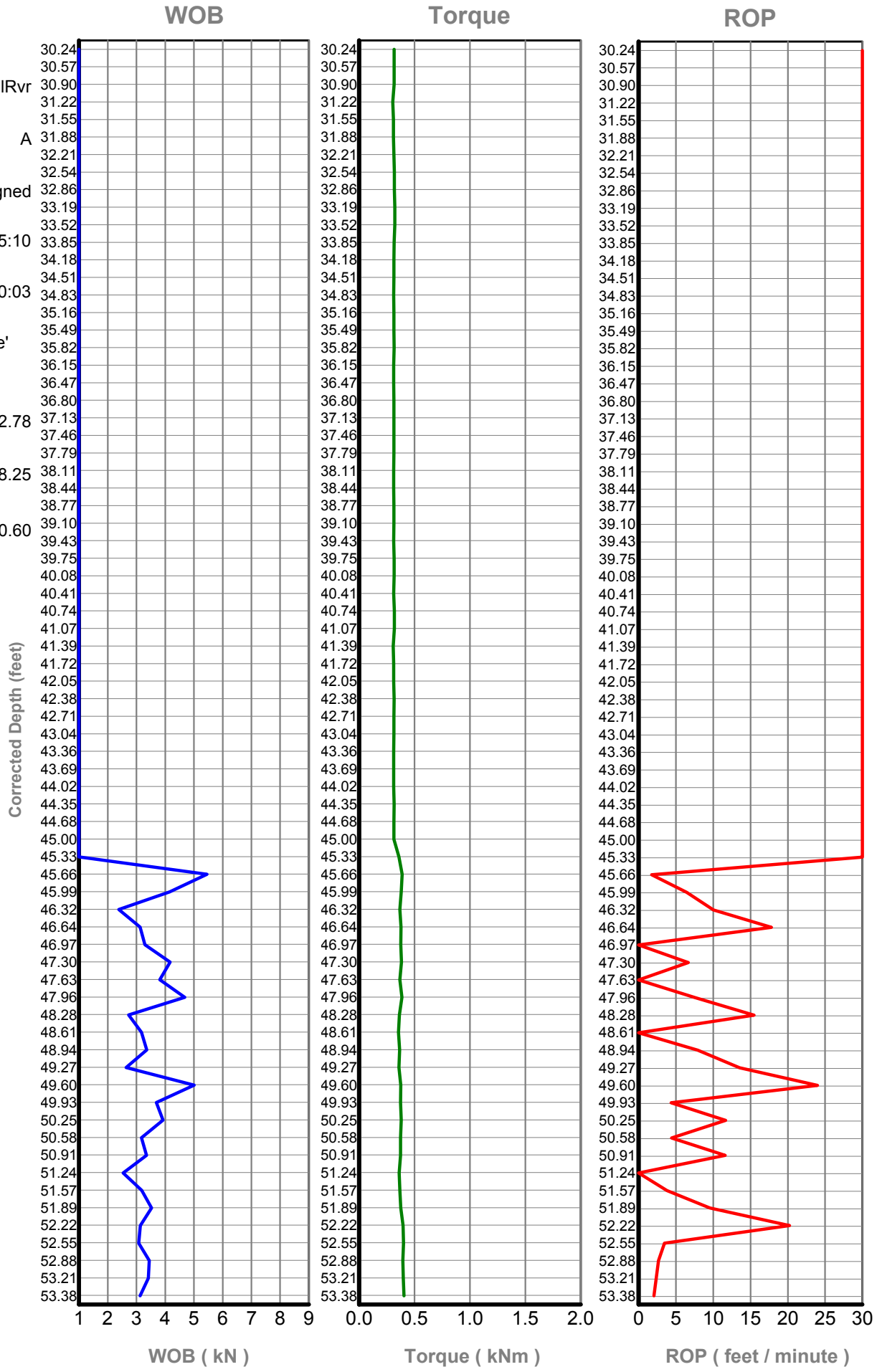
**End Date:**
4/25/2015 14:00:03

**Operator Note:**
'0.6 0.5 b Auto Complete'

**Northing:**
366,392.78

**Easting:**
250,698.25

**Tide (feet):**
0.60



## Hole: H278 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:50:32 | 30.51 | 30.01 | 1,022 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 13:50:33 | 30.84 | 30.34 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/25/2015 13:50:33 | 31.17 | 30.67 | 1,010 | 0.31 | 0.32 | 55.2 |
| 4/25/2015 13:50:33 | 31.50 | 31.00 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/25/2015 13:50:34 | 31.82 | 31.32 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 13:50:34 | 32.15 | 31.65 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 13:50:34 | 32.48 | 31.98 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 13:50:35 | 32.81 | 32.31 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/25/2015 13:50:35 | 33.14 | 32.64 | 1,018 | 0.32 | 0.31 | 55.6 |
| 4/25/2015 13:50:35 | 33.46 | 32.96 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/25/2015 13:50:36 | 33.79 | 33.29 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/25/2015 13:50:37 | 34.12 | 33.62 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/25/2015 13:50:36 | 34.45 | 33.95 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/25/2015 13:50:37 | 34.78 | 34.28 | 1,002 | 0.31 | 0.31 | 54.8 |
| 4/25/2015 13:50:37 | 35.11 | 34.61 | 1,002 | 0.31 | 0.31 | 54.8 |
| 4/25/2015 13:50:37 | 35.43 | 34.93 | 1,021 | 0.32 | 0.31 | 55.8 |
| 4/25/2015 13:50:38 | 35.76 | 35.26 | 1,001 | 0.32 | 0.32 | 54.7 |
| 4/25/2015 13:50:39 | 36.09 | 35.59 | 1,001 | 0.32 | 0.32 | 54.7 |
| 4/25/2015 13:50:38 | 36.42 | 35.92 | 990 | 0.31 | 0.32 | 54.1 |
| 4/25/2015 13:50:39 | 36.75 | 36.25 | 990 | 0.31 | 0.32 | 54.1 |
| 4/25/2015 13:50:40 | 37.07 | 36.57 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 13:50:40 | 37.40 | 36.90 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 13:50:40 | 37.73 | 37.23 | 1,027 | 0.31 | 0.31 | 56.1 |
| 4/25/2015 13:50:41 | 38.06 | 37.56 | 1,008 | 0.36 | 0.32 | 55.1 |
| 4/25/2015 13:50:41 | 38.39 | 37.89 | 1,008 | 0.36 | 0.32 | 55.1 |
| 4/25/2015 13:50:41 | 38.71 | 38.21 | 1,025 | 0.31 | 0.32 | 56.0 |
| 4/25/2015 13:50:42 | 39.04 | 38.54 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 13:50:42 | 39.37 | 38.87 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 13:50:42 | 39.70 | 39.20 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/25/2015 13:50:43 | 40.03 | 39.53 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/25/2015 13:50:43 | 40.35 | 39.85 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/25/2015 13:50:43 | 40.68 | 40.18 | 996 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 13:50:44 | 41.01 | 40.51 | 996 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 13:50:44 | 41.34 | 40.84 | 996 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 13:50:44 | 41.67 | 41.17 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 13:50:45 | 41.99 | 41.49 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/25/2015 13:50:45 | 42.32 | 41.82 | 1,013 | 0.31 | 0.32 | 55.4 |
| 4/25/2015 13:50:45 | 42.65 | 42.15 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 13:50:46 | 42.98 | 42.48 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 13:50:46 | 43.31 | 42.81 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 13:50:46 | 43.64 | 43.14 | 1,038 | 0.31 | 0.40 | 56.7 |
| 4/25/2015 13:50:47 | 43.96 | 43.46 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 13:50:47 | 44.29 | 43.79 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 13:50:47 | 44.62 | 44.12 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 13:50:48 | 44.95 | 44.45 | 1,013 | 0.32 | 0.31 | 55.4 |
| 4/25/2015 13:50:48 | 45.28 | 44.78 | 1,013 | 0.32 | 0.31 | 55.4 |
| 4/25/2015 13:50:49 | 45.60 | 45.10 | 1,010 | 0.31 | 0.32 | 55.3 |
| 4/25/2015 13:50:49 | 45.93 | 45.43 | 992 | 0.31 | 0.35 | 54.2 |
| 4/25/2015 13:50:53 | 46.26 | 45.76 | 0 | 3.44 | 0.36 | 0.0 |
| 4/25/2015 13:50:55 | 46.59 | 46.09 | 173 | 3.60 | 0.36 | 9.4 |
| 4/25/2015 13:50:58 | 46.92 | 46.42 | 104 | 4.07 | 0.36 | 5.7 |
| 4/25/2015 13:50:59 | 47.24 | 46.74 | 134 | 3.53 | 0.36 | 7.3 |
| 4/25/2015 13:51:04 | 47.57 | 47.07 | 3 | 3.28 | 0.34 | 0.2 |
| 4/25/2015 13:51:04 | 47.90 | 47.40 | 174 | 4.32 | 0.36 | 9.5 |
| 4/25/2015 13:51:08 | 48.23 | 47.73 | 0 | 5.37 | 0.37 | 0.0 |
| 4/25/2015 13:51:09 | 48.56 | 48.06 | 146 | 2.14 | 0.34 | 8.0 |
| 4/25/2015 13:51:09 | 48.88 | 48.38 | 284 | 2.84 | 0.35 | 15.5 |
| 4/25/2015 13:51:22 | 49.21 | 48.71 | 0 | 2.87 | 0.34 | 0.0 |
| 4/25/2015 13:51:23 | 49.54 | 49.04 | 84 | 5.20 | 0.36 | 4.6 |
| 4/25/2015 13:51:24 | 49.87 | 49.37 | 266 | 2.50 | 0.35 | 14.6 |
| 4/25/2015 13:51:24 | 50.20 | 49.70 | 384 | 2.45 | 0.35 | 21.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:51:27 | 50.53 | 50.03 | 63 | 3.56 | 0.37 | 3.4 |
| 4/25/2015 | 13:51:28 | 50.85 | 50.35 | 183 | 2.86 | 0.39 | 10.0 |
| 4/25/2015 | 13:51:31 | 51.18 | 50.68 | 158 | 3.80 | 0.37 | 8.6 |
| 4/25/2015 | 13:51:32 | 51.51 | 51.01 | 225 | 3.11 | 0.36 | 12.3 |
| 4/25/2015 | 13:51:33 | 51.84 | 51.34 | 294 | 2.70 | 0.36 | 16.1 |
| 4/25/2015 | 13:51:33 | 52.17 | 51.67 | 377 | 2.94 | 0.37 | 20.6 |
| 4/25/2015 | 13:51:37 | 52.49 | 51.99 | 11 | 4.51 | 0.38 | 0.6 |
| 4/25/2015 | 13:51:38 | 52.82 | 52.32 | 114 | 2.95 | 0.37 | 6.2 |
| 4/25/2015 | 13:51:40 | 53.15 | 52.65 | 232 | 3.35 | 0.39 | 12.7 |
| 4/25/2015 | 13:51:53 | 53.48 | 52.98 | 104 | 2.69 | 0.40 | 5.7 |
| 4/25/2015 | 13:52:02 | 53.81 | 53.31 | 34 | 2.78 | 0.40 | 1.9 |
| 4/25/2015 | 13:52:11 | 54.13 | 53.63 | 38 | 2.74 | 0.40 | 2.1 |
| 4/25/2015 | 13:52:21 | 54.46 | 53.96 | 38 | 3.22 | 0.40 | 2.1 |

## H278 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:48:05

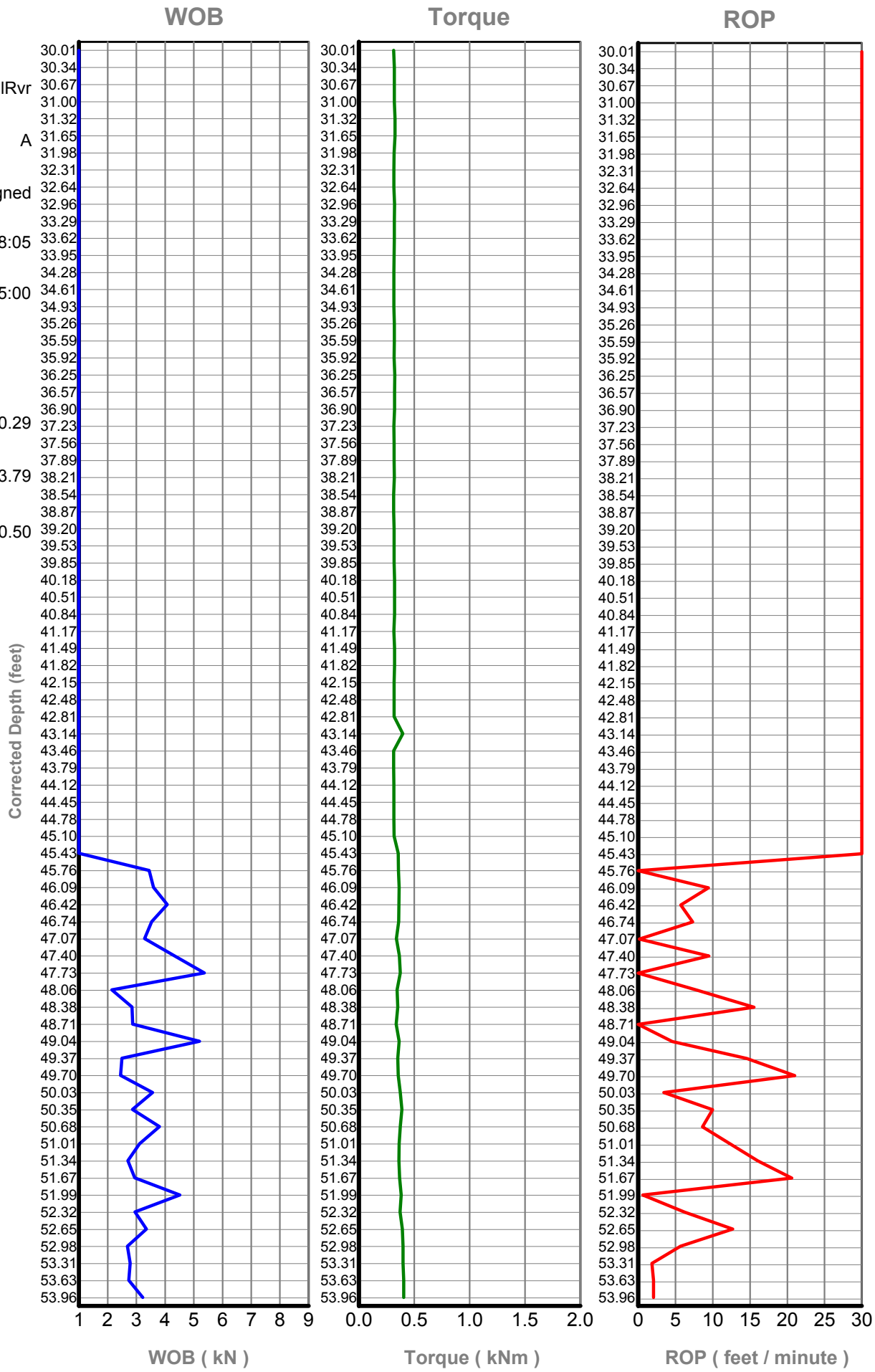
**End Date:**
4/25/2015 13:55:00

**Operator Note:**
'0.5 0.5 b Rock'

**Northing:**
366,430.29

**Easting:**
250,743.79

**Tide (feet):**
0.50



## Hole: H279 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 13:52:09 | 30.51 | 30.01 | 567 | 1.75 | 0.30 | 31.0 |
| 4/25/2015 13:52:10 | 30.84 | 30.34 | 564 | 1.79 | 0.30 | 30.8 |
| 4/25/2015 13:52:10 | 31.17 | 30.67 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 13:52:11 | 31.50 | 31.00 | 558 | 1.78 | 0.30 | 30.5 |
| 4/25/2015 13:52:12 | 31.82 | 31.32 | 559 | 1.78 | 0.30 | 30.6 |
| 4/25/2015 13:52:12 | 32.15 | 31.65 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 13:52:13 | 32.48 | 31.98 | 562 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 13:52:13 | 32.81 | 32.31 | 571 | 1.77 | 0.30 | 31.2 |
| 4/25/2015 13:52:14 | 33.14 | 32.64 | 551 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 13:52:15 | 33.46 | 32.96 | 558 | 1.79 | 0.30 | 30.5 |
| 4/25/2015 13:52:15 | 33.79 | 33.29 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 13:52:16 | 34.12 | 33.62 | 555 | 1.76 | 0.30 | 30.4 |
| 4/25/2015 13:52:16 | 34.45 | 33.95 | 558 | 1.75 | 0.30 | 30.5 |
| 4/25/2015 13:52:18 | 34.78 | 34.28 | 561 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 13:52:18 | 35.11 | 34.61 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 13:52:19 | 35.43 | 34.93 | 561 | 1.79 | 0.30 | 30.7 |
| 4/25/2015 13:52:19 | 35.76 | 35.26 | 561 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 13:52:20 | 36.09 | 35.59 | 564 | 1.76 | 0.30 | 30.8 |
| 4/25/2015 13:52:21 | 36.42 | 35.92 | 557 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 13:52:21 | 36.75 | 36.25 | 557 | 1.77 | 0.30 | 30.5 |
| 4/25/2015 13:52:22 | 37.07 | 36.57 | 559 | 1.75 | 0.30 | 30.6 |
| 4/25/2015 13:52:22 | 37.40 | 36.90 | 556 | 1.80 | 0.30 | 30.4 |
| 4/25/2015 13:52:23 | 37.73 | 37.23 | 559 | 1.77 | 0.30 | 30.6 |
| 4/25/2015 13:52:24 | 38.06 | 37.56 | 563 | 1.74 | 0.30 | 30.8 |
| 4/25/2015 13:52:24 | 38.39 | 37.89 | 558 | 1.77 | 0.29 | 30.5 |
| 4/25/2015 13:52:25 | 38.71 | 38.21 | 564 | 1.76 | 0.30 | 30.9 |
| 4/25/2015 13:52:26 | 39.04 | 38.54 | 555 | 1.76 | 0.29 | 30.4 |
| 4/25/2015 13:52:26 | 39.37 | 38.87 | 552 | 1.83 | 0.30 | 30.2 |
| 4/25/2015 13:52:27 | 39.70 | 39.20 | 549 | 1.77 | 0.30 | 30.0 |
| 4/25/2015 13:52:28 | 40.03 | 39.53 | 543 | 1.79 | 0.27 | 29.7 |
| 4/25/2015 13:52:29 | 40.35 | 39.85 | 531 | 1.79 | 0.30 | 29.1 |
| 4/25/2015 13:52:29 | 40.68 | 40.18 | 531 | 1.78 | 0.30 | 29.1 |
| 4/25/2015 13:52:30 | 41.01 | 40.51 | 542 | 1.81 | 0.29 | 29.7 |
| 4/25/2015 13:52:30 | 41.34 | 40.84 | 545 | 1.76 | 0.30 | 29.8 |
| 4/25/2015 13:52:31 | 41.67 | 41.17 | 554 | 1.76 | 0.30 | 30.3 |
| 4/25/2015 13:52:32 | 41.99 | 41.49 | 566 | 1.76 | 0.30 | 30.9 |
| 4/25/2015 13:52:32 | 42.32 | 41.82 | 558 | 1.77 | 0.30 | 30.5 |
| 4/25/2015 13:52:33 | 42.65 | 42.15 | 557 | 1.76 | 0.29 | 30.5 |
| 4/25/2015 13:52:33 | 42.98 | 42.48 | 561 | 1.87 | 0.34 | 30.7 |
| 4/25/2015 13:52:34 | 43.31 | 42.81 | 558 | 1.77 | 0.30 | 30.5 |
| 4/25/2015 13:52:35 | 43.64 | 43.14 | 561 | 1.78 | 0.30 | 30.7 |
| 4/25/2015 13:52:35 | 43.96 | 43.46 | 561 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 13:52:36 | 44.29 | 43.79 | 561 | 1.75 | 0.30 | 30.7 |
| 4/25/2015 13:52:37 | 44.62 | 44.12 | 557 | 1.77 | 0.30 | 30.5 |
| 4/25/2015 13:52:38 | 44.95 | 44.45 | 549 | 1.77 | 0.30 | 30.0 |
| 4/25/2015 13:52:55 | 45.28 | 44.78 | 0 | 1.81 | 1.04 | 0.0 |
| 4/25/2015 13:53:04 | 45.60 | 45.10 | 3 | 1.73 | 1.20 | 0.2 |
| 4/25/2015 13:53:40 | 45.93 | 45.43 | 0 | 1.83 | 1.15 | 0.0 |
| 4/25/2015 13:53:42 | 46.26 | 45.76 | 148 | 1.78 | 1.12 | 8.1 |
| 4/25/2015 13:53:43 | 46.59 | 46.09 | 265 | 1.75 | 1.30 | 14.5 |
| 4/25/2015 13:53:56 | 46.92 | 46.42 | 102 | 1.86 | 1.05 | 5.6 |
| 4/25/2015 13:53:58 | 47.24 | 46.74 | 237 | 1.78 | 1.22 | 13.0 |
| 4/25/2015 13:53:59 | 47.57 | 47.07 | 243 | 1.79 | 1.19 | 13.3 |
| 4/25/2015 13:54:01 | 47.90 | 47.40 | 237 | 1.77 | 1.13 | 13.0 |
| 4/25/2015 13:54:02 | 48.23 | 47.73 | 234 | 1.76 | 1.12 | 12.8 |
| 4/25/2015 13:54:31 | 48.56 | 48.06 | 44 | 1.79 | 1.09 | 2.4 |
| 4/25/2015 13:54:48 | 48.88 | 48.38 | 60 | 1.75 | 1.14 | 3.3 |
| 4/25/2015 13:54:49 | 49.21 | 48.71 | 157 | 1.78 | 0.99 | 8.6 |
| 4/25/2015 13:54:50 | 49.54 | 49.04 | 268 | 1.77 | 0.90 | 14.6 |
| 4/25/2015 13:55:35 | 49.87 | 49.37 | 22 | 1.80 | 1.41 | 1.2 |
| 4/25/2015 13:55:36 | 50.20 | 49.70 | 128 | 1.76 | 1.31 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 13:55:53 | 50.53 | 50.03 | 94 | 1.79 | 1.03 | 5.2 |
| 4/25/2015 | 13:55:54 | 50.85 | 50.35 | 236 | 1.74 | 0.97 | 12.9 |
| 4/25/2015 | 13:55:55 | 51.18 | 50.68 | 363 | 1.76 | 1.00 | 19.8 |
| 4/25/2015 | 13:55:56 | 51.51 | 51.01 | 365 | 1.76 | 1.05 | 20.0 |
| 4/25/2015 | 13:55:57 | 51.84 | 51.34 | 347 | 1.81 | 0.94 | 19.0 |
| 4/25/2015 | 13:55:58 | 52.17 | 51.67 | 326 | 1.74 | 0.92 | 17.8 |
| 4/25/2015 | 13:55:59 | 52.49 | 51.99 | 317 | 1.80 | 0.92 | 17.3 |
| 4/25/2015 | 13:56:15 | 52.82 | 52.32 | 37 | 1.78 | 0.89 | 2.0 |
| 4/25/2015 | 13:56:16 | 53.15 | 52.65 | 120 | 1.76 | 0.99 | 6.6 |
| 4/25/2015 | 13:56:18 | 53.48 | 52.98 | 283 | 1.77 | 1.11 | 15.5 |
| 4/25/2015 | 13:56:20 | 53.81 | 53.31 | 216 | 1.79 | 1.06 | 11.8 |
| 4/25/2015 | 13:56:21 | 54.13 | 53.63 | 266 | 1.78 | 1.03 | 14.6 |
| 4/25/2015 | 13:56:22 | 54.46 | 53.96 | 305 | 1.80 | 1.03 | 16.7 |
| 4/25/2015 | 13:56:23 | 54.79 | 54.29 | 321 | 1.76 | 0.99 | 17.5 |
| 4/25/2015 | 13:56:24 | 55.12 | 54.62 | 309 | 1.79 | 0.88 | 16.9 |
| 4/25/2015 | 13:56:25 | 55.45 | 54.95 | 318 | 1.74 | 0.88 | 17.4 |
| 4/25/2015 | 13:56:26 | 55.77 | 55.27 | 333 | 1.79 | 0.87 | 18.2 |
| 4/25/2015 | 13:56:26 | 55.85 | 55.35 | 333 | 1.79 | 0.87 | 18.2 |

## H279 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 13:50:38

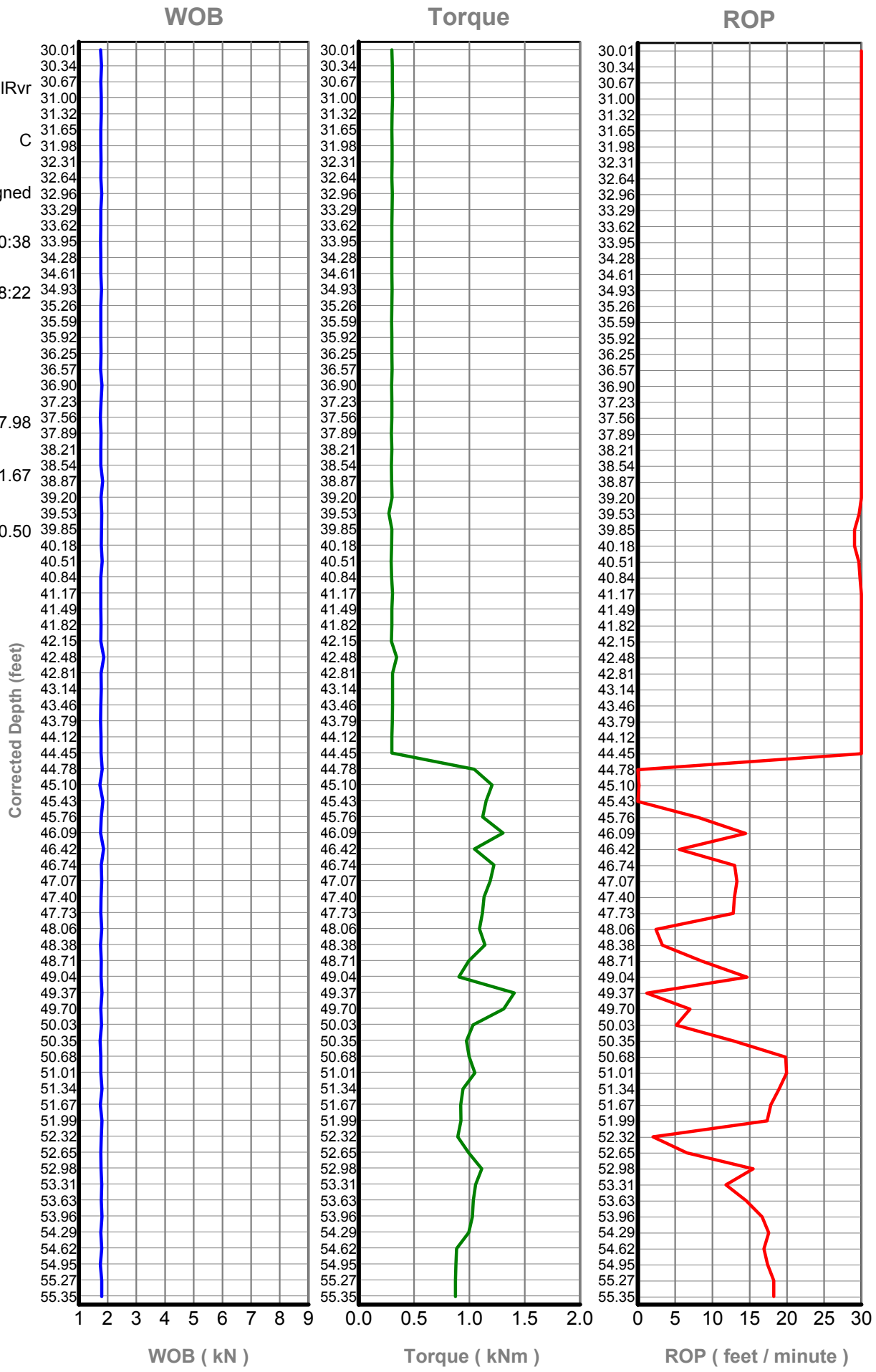
**End Date:**
4/25/2015 13:58:22

**Operator Note:**
'0.5 0.5 C Auto Complete'

**Northing:**
366,477.98

**Easting:**
250,801.67

**Tide (feet):**
0.50



## Hole: H28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 10:14:08 | 33.14 | 30.04 | 998 | 0.33 | 0.32 | 54.6 |
| 4/25/2015 10:14:09 | 33.46 | 30.36 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:14:09 | 33.79 | 30.69 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:14:09 | 34.12 | 31.02 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 10:14:10 | 34.45 | 31.35 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/25/2015 10:14:10 | 34.78 | 31.68 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/25/2015 10:14:10 | 35.11 | 32.01 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 10:14:11 | 35.43 | 32.33 | 1,003 | 0.35 | 0.31 | 54.9 |
| 4/25/2015 10:14:11 | 35.76 | 32.66 | 1,003 | 0.35 | 0.31 | 54.9 |
| 4/25/2015 10:14:11 | 36.09 | 32.99 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/25/2015 10:14:12 | 36.42 | 33.32 | 983 | 0.33 | 0.32 | 53.8 |
| 4/25/2015 10:14:12 | 36.75 | 33.65 | 983 | 0.33 | 0.32 | 53.8 |
| 4/25/2015 10:14:12 | 37.07 | 33.97 | 983 | 0.33 | 0.32 | 53.8 |
| 4/25/2015 10:14:13 | 37.40 | 34.30 | 989 | 0.32 | 0.32 | 54.1 |
| 4/25/2015 10:14:13 | 37.73 | 34.63 | 990 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:14:14 | 38.06 | 34.96 | 990 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:14:14 | 38.39 | 35.29 | 980 | 0.33 | 0.31 | 53.6 |
| 4/25/2015 10:14:14 | 38.71 | 35.61 | 981 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 10:14:15 | 39.04 | 35.94 | 981 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 10:14:15 | 39.37 | 36.27 | 995 | 0.35 | 0.32 | 54.4 |
| 4/25/2015 10:14:15 | 39.70 | 36.60 | 991 | 0.31 | 0.34 | 54.2 |
| 4/25/2015 10:14:16 | 40.03 | 36.93 | 959 | 0.30 | 0.39 | 52.4 |
| 4/25/2015 10:14:31 | 40.35 | 37.25 | 49 | 3.52 | 0.38 | 2.7 |
| 4/25/2015 10:14:34 | 40.68 | 37.58 | 78 | 4.78 | 0.37 | 4.3 |
| 4/25/2015 10:14:35 | 41.01 | 37.91 | 205 | 4.02 | 0.38 | 11.2 |
| 4/25/2015 10:14:37 | 41.34 | 38.24 | 264 | 7.91 | 0.38 | 14.4 |
| 4/25/2015 10:14:49 | 41.67 | 38.57 | 106 | 4.13 | 0.38 | 5.8 |
| 4/25/2015 10:14:50 | 41.99 | 38.89 | 199 | 4.69 | 0.38 | 10.9 |
| 4/25/2015 10:14:55 | 42.32 | 39.22 | 63 | 3.75 | 0.37 | 3.4 |
| 4/25/2015 10:14:56 | 42.65 | 39.55 | 206 | 3.48 | 0.37 | 11.3 |
| 4/25/2015 10:14:57 | 42.98 | 39.88 | 385 | 3.46 | 0.36 | 21.1 |
| 4/25/2015 10:15:00 | 43.31 | 40.21 | 100 | 4.97 | 0.36 | 5.5 |
| 4/25/2015 10:15:01 | 43.64 | 40.54 | 103 | 4.16 | 0.37 | 5.6 |
| 4/25/2015 10:15:02 | 43.96 | 40.86 | 256 | 4.22 | 0.37 | 14.0 |
| 4/25/2015 10:15:08 | 44.29 | 41.19 | 3 | 4.51 | 0.37 | 0.2 |
| 4/25/2015 10:15:10 | 44.62 | 41.52 | 159 | 3.35 | 0.37 | 8.7 |
| 4/25/2015 10:15:11 | 44.95 | 41.85 | 304 | 4.19 | 0.38 | 16.6 |
| 4/25/2015 10:15:12 | 45.28 | 42.18 | 350 | 4.26 | 0.37 | 19.1 |
| 4/25/2015 10:15:13 | 45.60 | 42.50 | 307 | 3.88 | 0.38 | 16.8 |
| 4/25/2015 10:15:49 | 45.93 | 42.83 | 47 | 3.35 | 0.39 | 2.6 |
| 4/25/2015 10:15:59 | 46.26 | 43.16 | 31 | 3.15 | 0.39 | 1.7 |
| 4/25/2015 10:16:02 | 46.59 | 43.49 | 105 | 2.57 | 0.37 | 5.7 |
| 4/25/2015 10:16:03 | 46.92 | 43.82 | 244 | 2.57 | 0.36 | 13.4 |
| 4/25/2015 10:16:04 | 47.24 | 44.14 | 330 | 2.43 | 0.36 | 18.0 |
| 4/25/2015 10:16:05 | 47.57 | 44.47 | 406 | 3.48 | 0.40 | 22.2 |
| 4/25/2015 10:16:08 | 47.90 | 44.80 | 49 | 4.26 | 0.38 | 2.7 |
| 4/25/2015 10:16:09 | 48.23 | 45.13 | 163 | 3.46 | 0.36 | 8.9 |
| 4/25/2015 10:16:10 | 48.56 | 45.46 | 292 | 3.39 | 0.36 | 16.0 |
| 4/25/2015 10:16:10 | 48.88 | 45.78 | 380 | 3.56 | 0.36 | 20.8 |
| 4/25/2015 10:16:12 | 49.21 | 46.11 | 434 | 2.44 | 0.36 | 23.7 |
| 4/25/2015 10:16:12 | 49.54 | 46.44 | 445 | 2.49 | 0.35 | 24.3 |
| 4/25/2015 10:16:15 | 49.87 | 46.77 | 213 | 2.67 | 0.38 | 11.6 |
| 4/25/2015 10:16:15 | 50.20 | 47.10 | 170 | 2.46 | 0.35 | 9.3 |
| 4/25/2015 10:16:16 | 50.53 | 47.43 | 332 | 2.38 | 0.35 | 18.2 |
| 4/25/2015 10:16:17 | 50.85 | 47.75 | 450 | 2.35 | 0.35 | 24.6 |
| 4/25/2015 10:16:17 | 51.18 | 48.08 | 515 | 2.38 | 0.35 | 28.2 |
| 4/25/2015 10:16:18 | 51.51 | 48.41 | 581 | 2.49 | 0.36 | 31.8 |
| 4/25/2015 10:16:19 | 51.84 | 48.74 | 540 | 2.49 | 0.37 | 29.5 |
| 4/25/2015 10:16:19 | 52.17 | 49.07 | 499 | 2.29 | 0.36 | 27.3 |
| 4/25/2015 10:16:20 | 52.49 | 49.39 | 451 | 2.42 | 0.37 | 24.7 |
| 4/25/2015 10:16:21 | 52.82 | 49.72 | 419 | 2.50 | 0.37 | 22.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 10:16:24 | 53.15 | 50.05 | 113 | 2.36 | 0.36 | 6.2 |
| 4/25/2015 | 10:16:25 | 53.48 | 50.38 | 132 | 2.57 | 0.37 | 7.2 |
| 4/25/2015 | 10:16:26 | 53.81 | 50.71 | 270 | 3.74 | 0.35 | 14.8 |
| 4/25/2015 | 10:16:27 | 54.13 | 51.03 | 379 | 2.46 | 0.36 | 20.7 |
| 4/25/2015 | 10:16:27 | 54.46 | 51.36 | 427 | 2.51 | 0.35 | 23.4 |
| 4/25/2015 | 10:16:28 | 54.79 | 51.69 | 478 | 2.47 | 0.36 | 26.2 |
| 4/25/2015 | 10:16:29 | 55.12 | 52.02 | 519 | 2.74 | 0.37 | 28.4 |
| 4/25/2015 | 10:16:30 | 55.45 | 52.35 | 451 | 2.42 | 0.36 | 24.7 |
| 4/25/2015 | 10:16:33 | 55.77 | 52.67 | 177 | 2.90 | 0.38 | 9.7 |
| 4/25/2015 | 10:16:33 | 56.10 | 53.00 | 134 | 2.63 | 0.36 | 7.3 |
| 4/25/2015 | 10:16:34 | 56.43 | 53.33 | 323 | 2.70 | 0.36 | 17.6 |
| 4/25/2015 | 10:16:38 | 56.76 | 53.66 | 0 | 2.74 | 0.36 | 0.0 |
| 4/25/2015 | 10:16:39 | 57.09 | 53.99 | 74 | 2.74 | 0.37 | 4.1 |
| 4/25/2015 | 10:16:41 | 57.41 | 54.31 | 228 | 2.84 | 0.36 | 12.5 |
| 4/25/2015 | 10:16:44 | 57.74 | 54.64 | 85 | 2.69 | 0.37 | 4.7 |
| 4/25/2015 | 10:16:45 | 58.07 | 54.97 | 140 | 3.01 | 0.37 | 7.7 |
| 4/25/2015 | 10:16:50 | 58.29 | 55.19 | 49 | 3.24 | 0.40 | 2.7 |

## H28 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 10:09:57

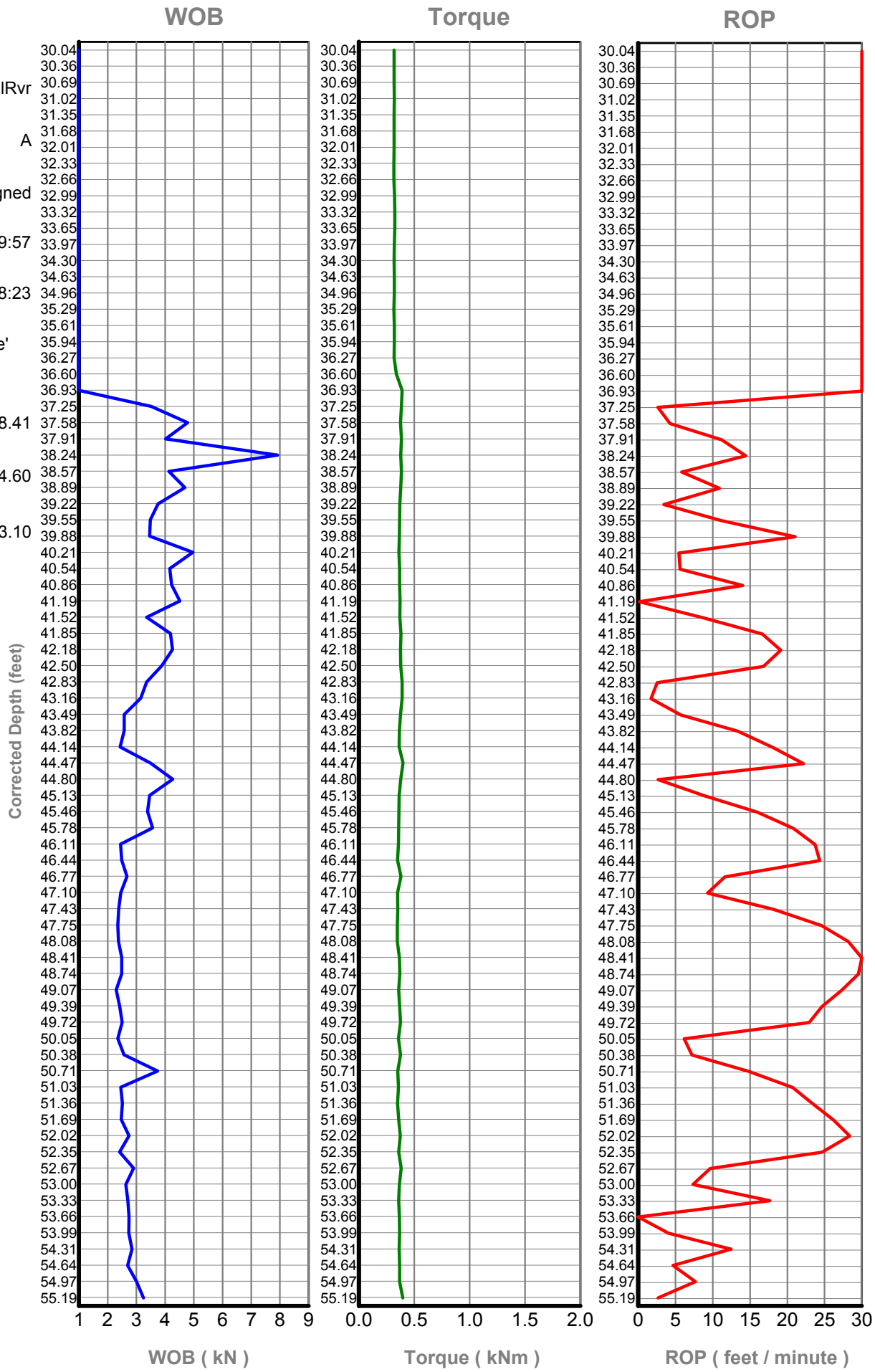
**End Date:**
4/25/2015 10:18:23

**Operator Note:**
'3.1 3.3 b Auto Complete'

**Northing:**
366,878.41

**Easting:**
250,584.60

**Tide (feet):**
3.10



## Hole: H280 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 5:51:47 | 36.42 | 30.02 | 767 | 0.25 | 0.34 | 41.9 |
| 4/25/2015 5:51:47 | 36.75 | 30.35 | 761 | 0.25 | 0.35 | 41.6 |
| 4/25/2015 5:51:48 | 37.07 | 30.67 | 770 | 0.25 | 0.34 | 42.1 |
| 4/25/2015 5:51:49 | 37.40 | 31.00 | 772 | 0.25 | 0.34 | 42.2 |
| 4/25/2015 5:51:49 | 37.73 | 31.33 | 772 | 0.25 | 0.34 | 42.2 |
| 4/25/2015 5:51:49 | 38.06 | 31.66 | 775 | 0.25 | 0.34 | 42.4 |
| 4/25/2015 5:51:50 | 38.39 | 31.99 | 767 | 0.25 | 0.34 | 41.9 |
| 4/25/2015 5:51:50 | 38.71 | 32.31 | 775 | 0.24 | 0.34 | 42.4 |
| 4/25/2015 5:51:51 | 39.04 | 32.64 | 772 | 0.25 | 0.34 | 42.2 |
| 4/25/2015 5:51:51 | 39.37 | 32.97 | 765 | 0.26 | 0.34 | 41.8 |
| 4/25/2015 5:51:52 | 39.70 | 33.30 | 765 | 0.25 | 0.33 | 41.8 |
| 4/25/2015 5:51:52 | 40.03 | 33.63 | 760 | 0.25 | 0.34 | 41.6 |
| 4/25/2015 5:51:53 | 40.35 | 33.95 | 760 | 0.25 | 0.34 | 41.6 |
| 4/25/2015 5:51:53 | 40.68 | 34.28 | 783 | 0.25 | 0.34 | 42.8 |
| 4/25/2015 5:51:53 | 41.01 | 34.61 | 783 | 0.25 | 0.34 | 42.8 |
| 4/25/2015 5:51:54 | 41.34 | 34.94 | 774 | 0.27 | 0.34 | 42.3 |
| 4/25/2015 5:51:54 | 41.67 | 35.27 | 771 | 0.26 | 0.34 | 42.2 |
| 4/25/2015 5:51:55 | 41.99 | 35.59 | 771 | 0.26 | 0.34 | 42.2 |
| 4/25/2015 5:51:55 | 42.32 | 35.92 | 793 | 0.25 | 0.34 | 43.4 |
| 4/25/2015 5:51:56 | 42.65 | 36.25 | 793 | 0.25 | 0.34 | 43.4 |
| 4/25/2015 5:51:56 | 42.98 | 36.58 | 783 | 0.26 | 0.34 | 42.8 |
| 4/25/2015 5:51:57 | 43.31 | 36.91 | 783 | 0.26 | 0.34 | 42.8 |
| 4/25/2015 5:51:57 | 43.64 | 37.24 | 778 | 0.25 | 0.34 | 42.5 |
| 4/25/2015 5:51:57 | 43.96 | 37.56 | 787 | 0.26 | 0.34 | 43.0 |
| 4/25/2015 5:51:58 | 44.29 | 37.89 | 776 | 0.26 | 0.34 | 42.4 |
| 4/25/2015 5:51:59 | 44.62 | 38.22 | 755 | 0.28 | 0.34 | 41.3 |
| 4/25/2015 5:51:59 | 44.95 | 38.55 | 755 | 0.26 | 0.33 | 41.3 |
| 4/25/2015 5:52:00 | 45.28 | 38.88 | 768 | 0.26 | 0.33 | 42.0 |
| 4/25/2015 5:52:00 | 45.60 | 39.20 | 780 | 0.25 | 0.34 | 42.7 |
| 4/25/2015 5:52:01 | 45.93 | 39.53 | 762 | 0.26 | 0.34 | 41.7 |
| 4/25/2015 5:52:01 | 46.26 | 39.86 | 762 | 0.26 | 0.34 | 41.7 |
| 4/25/2015 5:52:01 | 46.59 | 40.19 | 759 | 0.26 | 0.34 | 41.5 |
| 4/25/2015 5:52:02 | 46.92 | 40.52 | 780 | 0.26 | 0.34 | 42.6 |
| 4/25/2015 5:52:02 | 47.24 | 40.84 | 768 | 0.26 | 0.34 | 42.0 |
| 4/25/2015 5:52:03 | 47.57 | 41.17 | 763 | 0.22 | 0.34 | 41.7 |
| 4/25/2015 5:52:03 | 47.90 | 41.50 | 766 | 0.26 | 0.34 | 41.9 |
| 4/25/2015 5:52:04 | 48.23 | 41.83 | 769 | 0.26 | 0.34 | 42.0 |
| 4/25/2015 5:52:04 | 48.56 | 42.16 | 766 | 0.26 | 0.34 | 41.9 |
| 4/25/2015 5:52:05 | 48.88 | 42.48 | 769 | 0.26 | 0.27 | 42.0 |
| 4/25/2015 5:52:05 | 49.21 | 42.81 | 769 | 0.26 | 0.27 | 42.0 |
| 4/25/2015 5:52:05 | 49.54 | 43.14 | 760 | 0.26 | 0.34 | 41.6 |
| 4/25/2015 5:52:06 | 49.87 | 43.47 | 773 | 0.26 | 0.34 | 42.3 |
| 4/25/2015 5:52:06 | 50.20 | 43.80 | 777 | 0.26 | 0.34 | 42.5 |
| 4/25/2015 5:52:07 | 50.53 | 44.13 | 776 | 0.26 | 0.34 | 42.4 |
| 4/25/2015 5:52:07 | 50.85 | 44.45 | 771 | 0.26 | 0.34 | 42.2 |
| 4/25/2015 5:52:08 | 51.18 | 44.78 | 784 | 0.24 | 0.35 | 42.9 |
| 4/25/2015 5:52:08 | 51.51 | 45.11 | 760 | 0.24 | 0.38 | 41.6 |
| 4/25/2015 5:52:52 | 51.84 | 45.44 | 81 | 5.22 | 0.39 | 4.4 |
| 4/25/2015 5:53:04 | 52.17 | 45.77 | 46 | 4.09 | 0.38 | 2.5 |
| 4/25/2015 5:53:08 | 52.49 | 46.09 | 61 | 5.50 | 0.41 | 3.3 |
| 4/25/2015 5:53:10 | 52.82 | 46.42 | 90 | 3.94 | 0.38 | 4.9 |
| 4/25/2015 5:53:12 | 53.15 | 46.75 | 214 | 3.41 | 0.38 | 11.7 |
| 4/25/2015 5:53:13 | 53.48 | 47.08 | 256 | 4.17 | 0.40 | 14.0 |
| 4/25/2015 5:53:18 | 53.81 | 47.41 | 66 | 3.76 | 0.38 | 3.6 |
| 4/25/2015 5:53:20 | 54.13 | 47.73 | 169 | 4.84 | 0.39 | 9.2 |
| 4/25/2015 5:53:26 | 54.46 | 48.06 | 12 | 5.25 | 0.40 | 0.6 |
| 4/25/2015 5:53:35 | 54.79 | 48.39 | 17 | 6.73 | 0.42 | 0.9 |
| 4/25/2015 5:53:52 | 55.12 | 48.72 | 41 | 5.23 | 0.39 | 2.2 |
| 4/25/2015 5:53:57 | 55.45 | 49.05 | 40 | 4.27 | 0.38 | 2.2 |
| 4/25/2015 5:53:57 | 55.77 | 49.37 | 76 | 2.97 | 0.35 | 4.2 |
| 4/25/2015 5:53:58 | 56.10 | 49.70 | 276 | 2.98 | 0.37 | 15.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 5:54:01 | 56.43 | 50.03 | 109 | 3.57 | 0.37 | 5.9 |
| 4/25/2015 | 5:54:02 | 56.76 | 50.36 | 182 | 4.17 | 0.37 | 9.9 |
| 4/25/2015 | 5:54:11 | 57.09 | 50.69 | 57 | 5.14 | 0.39 | 3.1 |
| 4/25/2015 | 5:54:12 | 57.41 | 51.01 | 153 | 2.93 | 0.36 | 8.3 |
| 4/25/2015 | 5:54:13 | 57.74 | 51.34 | 253 | 2.83 | 0.37 | 13.8 |
| 4/25/2015 | 5:54:14 | 58.07 | 51.67 | 373 | 2.94 | 0.37 | 20.4 |
| 4/25/2015 | 5:54:15 | 58.40 | 52.00 | 425 | 3.16 | 0.37 | 23.2 |
| 4/25/2015 | 5:54:16 | 58.73 | 52.33 | 375 | 3.14 | 0.35 | 20.5 |
| 4/25/2015 | 5:54:17 | 59.06 | 52.66 | 364 | 3.11 | 0.37 | 19.9 |
| 4/25/2015 | 5:54:18 | 59.38 | 52.98 | 361 | 3.16 | 0.37 | 19.8 |
| 4/25/2015 | 5:54:19 | 59.71 | 53.31 | 364 | 2.87 | 0.37 | 19.9 |
| 4/25/2015 | 5:54:20 | 60.04 | 53.64 | 397 | 2.90 | 0.37 | 21.7 |
| 4/25/2015 | 5:54:20 | 60.37 | 53.97 | 407 | 2.97 | 0.37 | 22.3 |
| 4/25/2015 | 5:54:22 | 60.70 | 54.30 | 400 | 2.98 | 0.37 | 21.9 |
| 4/25/2015 | 5:54:23 | 61.02 | 54.62 | 393 | 2.90 | 0.37 | 21.5 |
| 4/25/2015 | 5:54:25 | 61.35 | 54.95 | 257 | 2.93 | 0.37 | 14.1 |
| 4/25/2015 | 5:54:26 | 61.60 | 55.20 | 205 | 2.90 | 0.40 | 11.2 |

## H280 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 5:50:00

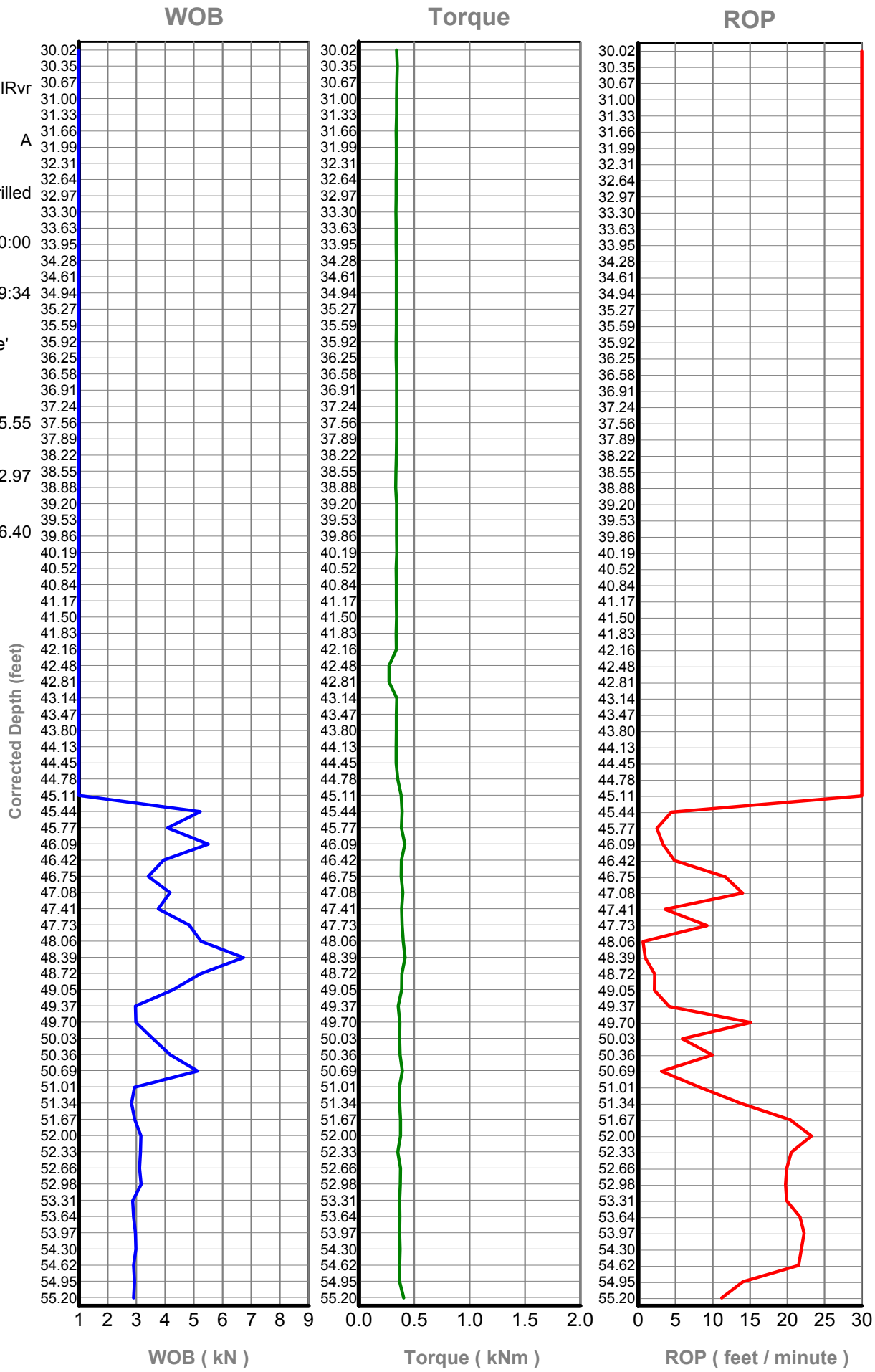
**End Date:**
4/25/2015 5:59:34

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
366,525.55

**Easting:**
250,872.97

**Tide (feet):**
6.40



## Hole: H281 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 6:04:10 | 36.75 | 30.25 | 806 | 0.31 | 0.34 | 44.1 |
| 4/25/2015 6:04:10 | 37.07 | 30.57 | 812 | 0.29 | 0.35 | 44.4 |
| 4/25/2015 6:04:11 | 37.40 | 30.90 | 812 | 0.29 | 0.35 | 44.4 |
| 4/25/2015 6:04:11 | 37.73 | 31.23 | 815 | 0.24 | 0.34 | 44.6 |
| 4/25/2015 6:04:11 | 38.06 | 31.56 | 818 | 0.24 | 0.33 | 44.7 |
| 4/25/2015 6:04:12 | 38.39 | 31.89 | 821 | 0.22 | 0.33 | 44.9 |
| 4/25/2015 6:04:12 | 38.71 | 32.21 | 822 | 0.19 | 0.33 | 44.9 |
| 4/25/2015 6:04:13 | 39.04 | 32.54 | 822 | 0.19 | 0.33 | 44.9 |
| 4/25/2015 6:04:13 | 39.37 | 32.87 | 830 | 0.22 | 0.33 | 45.4 |
| 4/25/2015 6:04:13 | 39.70 | 33.20 | 833 | 0.23 | 0.33 | 45.5 |
| 4/25/2015 6:04:14 | 40.03 | 33.53 | 841 | 0.22 | 0.33 | 46.0 |
| 4/25/2015 6:04:14 | 40.35 | 33.85 | 844 | 0.20 | 0.33 | 46.2 |
| 4/25/2015 6:04:15 | 40.68 | 34.18 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:15 | 41.01 | 34.51 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:15 | 41.34 | 34.84 | 838 | 0.22 | 0.33 | 45.8 |
| 4/25/2015 6:04:16 | 41.67 | 35.17 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:16 | 41.99 | 35.49 | 836 | 0.22 | 0.33 | 45.7 |
| 4/25/2015 6:04:17 | 42.32 | 35.82 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:18 | 42.65 | 36.15 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:17 | 42.98 | 36.48 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:18 | 43.31 | 36.81 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:19 | 43.64 | 37.14 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:19 | 43.96 | 37.46 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:20 | 44.29 | 37.79 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:20 | 44.62 | 38.12 | 839 | 0.22 | 0.33 | 45.9 |
| 4/25/2015 6:04:20 | 44.95 | 38.45 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:21 | 45.28 | 38.78 | 845 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:21 | 45.60 | 39.10 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:22 | 45.93 | 39.43 | 841 | 0.22 | 0.33 | 46.0 |
| 4/25/2015 6:04:22 | 46.26 | 39.76 | 841 | 0.22 | 0.33 | 46.0 |
| 4/25/2015 6:04:22 | 46.59 | 40.09 | 843 | 0.22 | 0.33 | 46.1 |
| 4/25/2015 6:04:23 | 46.92 | 40.42 | 841 | 0.22 | 0.33 | 46.0 |
| 4/25/2015 6:04:23 | 47.24 | 40.74 | 846 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:24 | 47.57 | 41.07 | 846 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:24 | 47.90 | 41.40 | 846 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 6:04:24 | 48.23 | 41.73 | 842 | 0.22 | 0.33 | 46.1 |
| 4/25/2015 6:04:25 | 48.56 | 42.06 | 838 | 0.22 | 0.33 | 45.8 |
| 4/25/2015 6:04:25 | 48.88 | 42.38 | 840 | 0.22 | 0.33 | 46.0 |
| 4/25/2015 6:04:26 | 49.21 | 42.71 | 842 | 0.22 | 0.33 | 46.1 |
| 4/25/2015 6:04:26 | 49.54 | 43.04 | 838 | 0.22 | 0.33 | 45.8 |
| 4/25/2015 6:04:27 | 49.87 | 43.37 | 838 | 0.22 | 0.33 | 45.8 |
| 4/25/2015 6:04:27 | 50.20 | 43.70 | 836 | 0.22 | 0.33 | 45.7 |
| 4/25/2015 6:04:27 | 50.53 | 44.03 | 852 | 0.22 | 0.33 | 46.6 |
| 4/25/2015 6:04:28 | 50.85 | 44.35 | 844 | 0.22 | 0.33 | 46.2 |
| 4/25/2015 6:04:29 | 51.18 | 44.68 | 841 | 0.26 | 0.34 | 46.0 |
| 4/25/2015 6:04:29 | 51.51 | 45.01 | 815 | 0.21 | 0.37 | 44.6 |
| 4/25/2015 6:05:11 | 51.84 | 45.34 | 0 | 3.03 | 0.36 | 0.0 |
| 4/25/2015 6:05:15 | 52.17 | 45.67 | 105 | 3.77 | 0.38 | 5.8 |
| 4/25/2015 6:05:21 | 52.49 | 45.99 | 42 | 2.80 | 0.35 | 2.3 |
| 4/25/2015 6:05:21 | 52.82 | 46.32 | 119 | 2.32 | 0.34 | 6.5 |
| 4/25/2015 6:05:22 | 53.15 | 46.65 | 236 | 2.76 | 0.34 | 12.9 |
| 4/25/2015 6:05:35 | 53.48 | 46.98 | 12 | 4.02 | 0.36 | 0.7 |
| 4/25/2015 6:05:36 | 53.81 | 47.31 | 204 | 4.23 | 0.38 | 11.1 |
| 4/25/2015 6:05:55 | 54.13 | 47.63 | 57 | 6.43 | 0.37 | 3.1 |
| 4/25/2015 6:05:57 | 54.46 | 47.96 | 176 | 3.62 | 0.37 | 9.6 |
| 4/25/2015 6:05:58 | 54.79 | 48.29 | 218 | 3.31 | 0.37 | 11.9 |
| 4/25/2015 6:05:59 | 55.12 | 48.62 | 298 | 3.94 | 0.38 | 16.3 |
| 4/25/2015 6:06:00 | 55.45 | 48.95 | 318 | 4.85 | 0.37 | 17.4 |
| 4/25/2015 6:06:02 | 55.77 | 49.27 | 293 | 4.13 | 0.37 | 16.0 |
| 4/25/2015 6:06:04 | 56.10 | 49.60 | 174 | 4.45 | 0.38 | 9.5 |
| 4/25/2015 6:06:14 | 56.43 | 49.93 | 62 | 3.26 | 0.37 | 3.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 6:06:15 | 56.76 | 50.26 | 97 | 2.22 | 0.32 | 5.3 |
| 4/25/2015 | 6:06:16 | 57.09 | 50.59 | 146 | 4.09 | 0.36 | 8.0 |
| 4/25/2015 | 6:06:17 | 57.41 | 50.91 | 334 | 2.93 | 0.37 | 18.2 |
| 4/25/2015 | 6:06:18 | 57.74 | 51.24 | 364 | 2.97 | 0.37 | 19.9 |
| 4/25/2015 | 6:06:18 | 58.07 | 51.57 | 418 | 3.13 | 0.37 | 22.9 |
| 4/25/2015 | 6:06:19 | 58.40 | 51.90 | 428 | 3.01 | 0.37 | 23.4 |
| 4/25/2015 | 6:06:20 | 58.73 | 52.23 | 428 | 2.73 | 0.37 | 23.4 |
| 4/25/2015 | 6:06:21 | 59.06 | 52.56 | 439 | 2.63 | 0.36 | 24.0 |
| 4/25/2015 | 6:06:21 | 59.38 | 52.88 | 448 | 2.74 | 0.36 | 24.5 |
| 4/25/2015 | 6:06:22 | 59.71 | 53.21 | 463 | 3.02 | 0.37 | 25.3 |
| 4/25/2015 | 6:06:24 | 60.04 | 53.54 | 445 | 2.83 | 0.37 | 24.3 |
| 4/25/2015 | 6:06:24 | 60.37 | 53.87 | 431 | 2.98 | 0.37 | 23.6 |
| 4/25/2015 | 6:06:26 | 60.70 | 54.20 | 343 | 4.66 | 0.38 | 18.7 |
| 4/25/2015 | 6:06:27 | 61.02 | 54.52 | 278 | 4.00 | 0.40 | 15.2 |
| 4/25/2015 | 6:06:30 | 61.35 | 54.85 | 116 | 3.44 | 0.38 | 6.3 |
| 4/25/2015 | 6:06:31 | 61.43 | 54.93 | 107 | 3.26 | 0.35 | 5.8 |

## H281 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 6:00:19

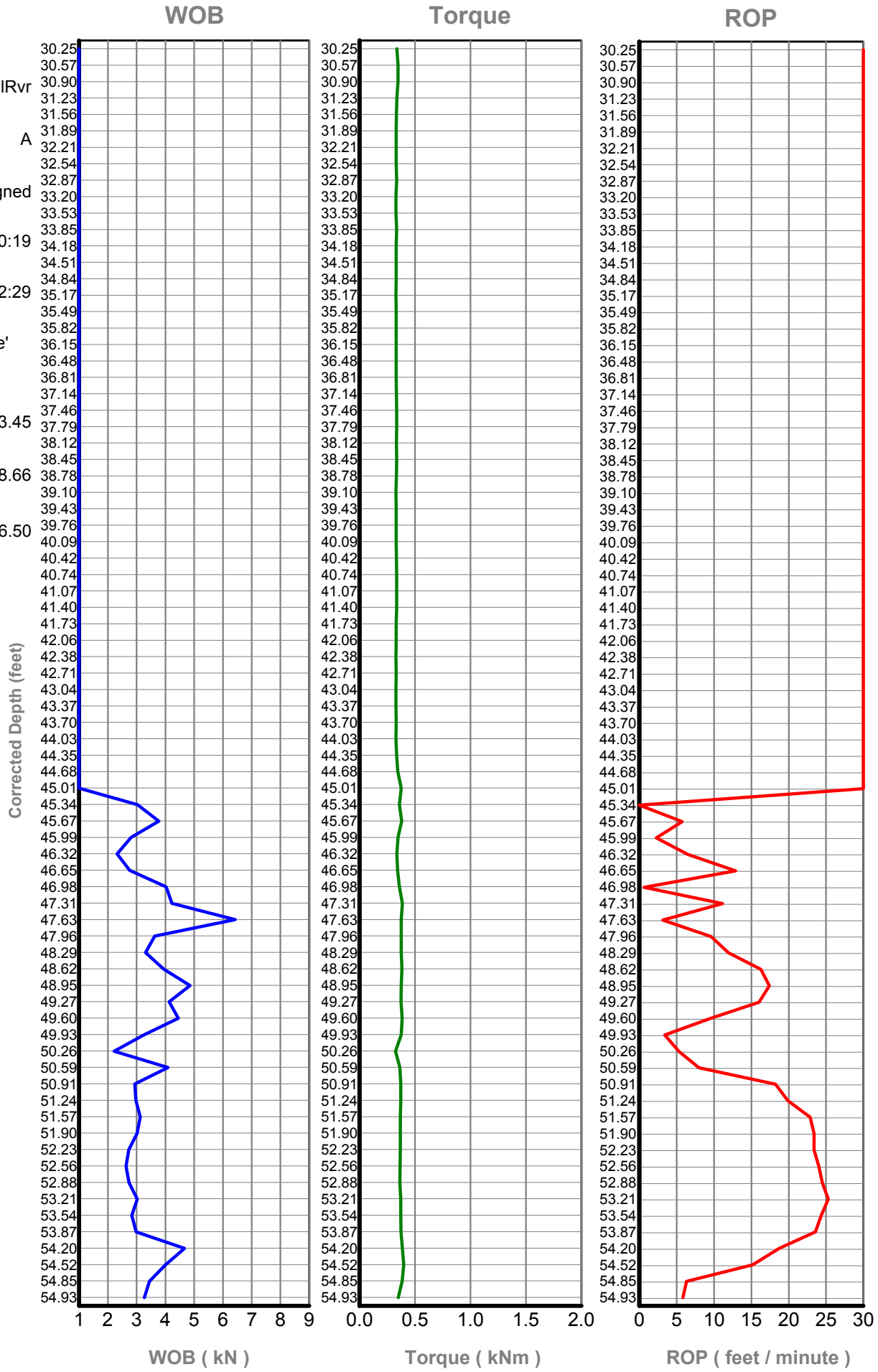
**End Date:**
4/25/2015 6:12:29

**Operator Note:**
'6.5 6.4 b Auto Complete'

**Northing:**
366,563.45

**Easting:**
250,918.66

**Tide (feet):**
6.50



## Hole: H282 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 5:52:33 | 36.42 | 30.02 | 20 | 1.96 | 0.17 | 1.1 |
| 4/25/2015 5:52:34 | 36.75 | 30.35 | 217 | 1.98 | 0.17 | 11.9 |
| 4/25/2015 5:52:34 | 37.07 | 30.67 | 323 | 1.97 | 0.17 | 17.7 |
| 4/25/2015 5:52:35 | 37.40 | 31.00 | 509 | 1.95 | 0.17 | 27.8 |
| 4/25/2015 5:52:36 | 37.73 | 31.33 | 501 | 1.97 | 0.17 | 27.4 |
| 4/25/2015 5:52:36 | 38.06 | 31.66 | 501 | 1.99 | 0.17 | 27.4 |
| 4/25/2015 5:52:37 | 38.39 | 31.99 | 515 | 1.99 | 0.17 | 28.2 |
| 4/25/2015 5:52:38 | 38.71 | 32.31 | 507 | 1.99 | 0.17 | 27.7 |
| 4/25/2015 5:52:38 | 39.04 | 32.64 | 510 | 1.96 | 0.17 | 27.9 |
| 4/25/2015 5:52:39 | 39.37 | 32.97 | 521 | 1.95 | 0.17 | 28.5 |
| 4/25/2015 5:52:40 | 39.70 | 33.30 | 517 | 1.98 | 0.15 | 28.3 |
| 4/25/2015 5:52:40 | 40.03 | 33.63 | 512 | 1.94 | 0.17 | 28.0 |
| 4/25/2015 5:52:41 | 40.35 | 33.95 | 512 | 1.97 | 0.17 | 28.0 |
| 4/25/2015 5:52:42 | 40.68 | 34.28 | 515 | 1.98 | 0.17 | 28.2 |
| 4/25/2015 5:52:43 | 41.01 | 34.61 | 515 | 1.99 | 0.17 | 28.2 |
| 4/25/2015 5:52:43 | 41.34 | 34.94 | 515 | 1.98 | 0.17 | 28.2 |
| 4/25/2015 5:52:44 | 41.67 | 35.27 | 520 | 2.00 | 0.17 | 28.5 |
| 4/25/2015 5:52:45 | 41.99 | 35.59 | 517 | 1.97 | 0.17 | 28.3 |
| 4/25/2015 5:52:45 | 42.32 | 35.92 | 517 | 1.96 | 0.17 | 28.3 |
| 4/25/2015 5:52:46 | 42.65 | 36.25 | 515 | 1.98 | 0.17 | 28.1 |
| 4/25/2015 5:52:47 | 42.98 | 36.58 | 517 | 1.95 | 0.17 | 28.3 |
| 4/25/2015 5:52:47 | 43.31 | 36.91 | 517 | 1.98 | 0.17 | 28.3 |
| 4/25/2015 5:52:48 | 43.64 | 37.24 | 515 | 1.97 | 0.17 | 28.1 |
| 4/25/2015 5:52:49 | 43.96 | 37.56 | 517 | 1.97 | 0.17 | 28.3 |
| 4/25/2015 5:52:49 | 44.29 | 37.89 | 517 | 1.98 | 0.17 | 28.3 |
| 4/25/2015 5:52:50 | 44.62 | 38.22 | 517 | 1.96 | 0.17 | 28.3 |
| 4/25/2015 5:52:51 | 44.95 | 38.55 | 512 | 1.96 | 0.17 | 28.0 |
| 4/25/2015 5:52:51 | 45.28 | 38.88 | 518 | 1.97 | 0.17 | 28.3 |
| 4/25/2015 5:52:53 | 45.60 | 39.20 | 515 | 1.97 | 0.17 | 28.2 |
| 4/25/2015 5:52:53 | 45.93 | 39.53 | 515 | 1.96 | 0.17 | 28.2 |
| 4/25/2015 5:52:54 | 46.26 | 39.86 | 524 | 2.00 | 0.17 | 28.6 |
| 4/25/2015 5:52:55 | 46.59 | 40.19 | 509 | 1.98 | 0.18 | 27.8 |
| 4/25/2015 5:52:55 | 46.92 | 40.52 | 518 | 1.96 | 0.18 | 28.3 |
| 4/25/2015 5:52:56 | 47.24 | 40.84 | 518 | 1.95 | 0.18 | 28.3 |
| 4/25/2015 5:52:57 | 47.57 | 41.17 | 518 | 1.97 | 0.17 | 28.3 |
| 4/25/2015 5:52:57 | 47.90 | 41.50 | 521 | 1.98 | 0.18 | 28.5 |
| 4/25/2015 5:52:58 | 48.23 | 41.83 | 517 | 1.96 | 0.18 | 28.3 |
| 4/25/2015 5:52:59 | 48.56 | 42.16 | 515 | 1.97 | 0.18 | 28.1 |
| 4/25/2015 5:52:59 | 48.88 | 42.48 | 499 | 1.97 | 0.18 | 27.3 |
| 4/25/2015 5:53:00 | 49.21 | 42.81 | 499 | 1.99 | 0.18 | 27.3 |
| 4/25/2015 5:53:01 | 49.54 | 43.14 | 509 | 2.00 | 0.18 | 27.8 |
| 4/25/2015 5:53:01 | 49.87 | 43.47 | 506 | 1.98 | 0.18 | 27.7 |
| 4/25/2015 5:53:02 | 50.20 | 43.80 | 509 | 1.97 | 0.18 | 27.8 |
| 4/25/2015 5:53:03 | 50.53 | 44.13 | 511 | 1.98 | 0.18 | 28.0 |
| 4/25/2015 5:53:04 | 50.85 | 44.45 | 515 | 1.95 | 0.18 | 28.1 |
| 4/25/2015 5:53:04 | 51.18 | 44.78 | 517 | 1.96 | 0.18 | 28.3 |
| 4/25/2015 5:53:05 | 51.51 | 45.11 | 515 | 1.98 | 0.18 | 28.1 |
| 4/25/2015 5:54:26 | 51.84 | 45.44 | 0 | 2.18 | 1.34 | 0.0 |
| 4/25/2015 5:55:15 | 52.17 | 45.77 | 0 | 1.99 | 1.24 | 0.0 |
| 4/25/2015 5:55:16 | 52.49 | 46.09 | 110 | 1.95 | 1.09 | 6.0 |
| 4/25/2015 5:55:47 | 52.82 | 46.42 | 0 | 1.95 | 1.00 | 0.0 |
| 4/25/2015 5:55:50 | 53.15 | 46.75 | 42 | 1.97 | 1.21 | 2.3 |
| 4/25/2015 5:55:55 | 53.48 | 47.08 | 0 | 1.98 | 1.07 | 0.0 |
| 4/25/2015 5:55:56 | 53.81 | 47.41 | 122 | 2.00 | 1.23 | 6.7 |
| 4/25/2015 5:55:57 | 54.13 | 47.73 | 238 | 2.00 | 1.21 | 13.0 |
| 4/25/2015 5:55:59 | 54.46 | 48.06 | 289 | 1.99 | 1.14 | 15.8 |
| 4/25/2015 5:56:06 | 54.79 | 48.39 | 54 | 1.98 | 1.15 | 2.9 |
| 4/25/2015 5:56:07 | 55.12 | 48.72 | 167 | 1.95 | 1.10 | 9.1 |
| 4/25/2015 5:56:19 | 55.45 | 49.05 | 35 | 1.96 | 1.50 | 1.9 |
| 4/25/2015 5:56:21 | 55.77 | 49.37 | 178 | 1.99 | 1.05 | 9.7 |
| 4/25/2015 5:56:22 | 56.10 | 49.70 | 178 | 1.99 | 1.02 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 5:56:23 | 56.43 | 50.03 | 250 | 1.98 | 1.08 | 13.7 |
| 4/25/2015 | 5:56:48 | 56.76 | 50.36 | 80 | 1.97 | 1.19 | 4.4 |
| 4/25/2015 | 5:56:49 | 57.09 | 50.69 | 78 | 1.99 | 1.13 | 4.3 |
| 4/25/2015 | 5:56:51 | 57.41 | 51.01 | 184 | 2.01 | 1.20 | 10.1 |
| 4/25/2015 | 5:56:52 | 57.74 | 51.34 | 271 | 1.98 | 1.26 | 14.8 |
| 4/25/2015 | 5:57:20 | 58.07 | 51.67 | 41 | 2.00 | 1.16 | 2.2 |
| 4/25/2015 | 5:57:29 | 58.40 | 52.00 | 38 | 2.00 | 1.12 | 2.1 |
| 4/25/2015 | 5:57:39 | 58.73 | 52.33 | 35 | 1.99 | 1.10 | 1.9 |
| 4/25/2015 | 5:57:49 | 59.06 | 52.66 | 38 | 2.00 | 1.10 | 2.1 |
| 4/25/2015 | 6:00:07 | 59.18 | 52.78 | 4 | 2.00 | 1.23 | 0.2 |

## H282 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 5:50:08

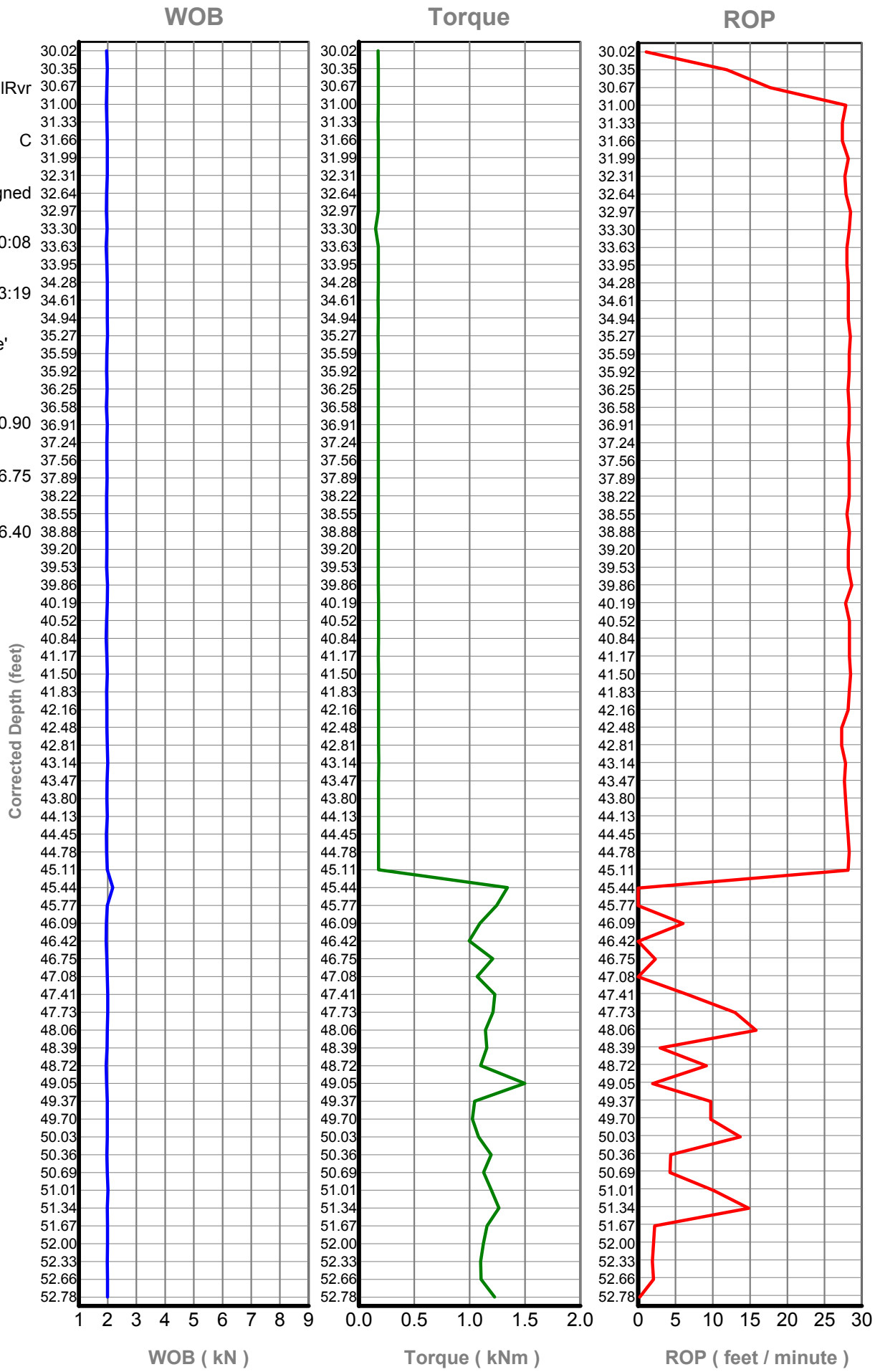
**End Date:**
4/25/2015 6:03:19

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
366,610.90

**Easting:**
250,976.75

**Tide (feet):**
6.40



## Hole: H283 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:48:15 | 30.84 | 30.24 | 832 | 0.98 | 0.34 | 45.5 |
| 4/24/2015 23:48:15 | 31.17 | 30.57 | 832 | 0.98 | 0.34 | 45.5 |
| 4/24/2015 23:48:15 | 31.50 | 30.90 | 838 | 0.97 | 0.33 | 45.8 |
| 4/24/2015 23:48:16 | 31.82 | 31.22 | 826 | 0.96 | 0.34 | 45.2 |
| 4/24/2015 23:48:16 | 32.15 | 31.55 | 826 | 0.96 | 0.33 | 45.2 |
| 4/24/2015 23:48:17 | 32.48 | 31.88 | 836 | 0.97 | 0.33 | 45.7 |
| 4/24/2015 23:48:17 | 32.81 | 32.21 | 837 | 0.98 | 0.33 | 45.8 |
| 4/24/2015 23:48:18 | 33.14 | 32.54 | 837 | 0.98 | 0.33 | 45.8 |
| 4/24/2015 23:48:18 | 33.46 | 32.86 | 826 | 0.97 | 0.33 | 45.2 |
| 4/24/2015 23:48:18 | 33.79 | 33.19 | 826 | 0.98 | 0.33 | 45.2 |
| 4/24/2015 23:48:19 | 34.12 | 33.52 | 828 | 0.99 | 0.33 | 45.3 |
| 4/24/2015 23:48:19 | 34.45 | 33.85 | 830 | 0.96 | 0.33 | 45.4 |
| 4/24/2015 23:48:20 | 34.78 | 34.18 | 830 | 0.96 | 0.33 | 45.4 |
| 4/24/2015 23:48:20 | 35.11 | 34.51 | 826 | 0.97 | 0.33 | 45.2 |
| 4/24/2015 23:48:20 | 35.43 | 34.83 | 829 | 0.96 | 0.33 | 45.3 |
| 4/24/2015 23:48:21 | 35.76 | 35.16 | 837 | 0.25 | 0.33 | 45.8 |
| 4/24/2015 23:48:22 | 36.09 | 35.49 | 807 | 0.25 | 0.33 | 44.1 |
| 4/24/2015 23:48:22 | 36.42 | 35.82 | 821 | 0.25 | 0.33 | 44.9 |
| 4/24/2015 23:48:23 | 36.75 | 36.15 | 821 | 0.25 | 0.33 | 44.9 |
| 4/24/2015 23:48:23 | 37.07 | 36.47 | 821 | 0.24 | 0.33 | 44.9 |
| 4/24/2015 23:48:23 | 37.40 | 36.80 | 811 | 0.25 | 0.33 | 44.3 |
| 4/24/2015 23:48:24 | 37.73 | 37.13 | 811 | 0.24 | 0.33 | 44.3 |
| 4/24/2015 23:48:24 | 38.06 | 37.46 | 822 | 0.24 | 0.33 | 45.0 |
| 4/24/2015 23:48:25 | 38.39 | 37.79 | 803 | 0.24 | 0.31 | 43.9 |
| 4/24/2015 23:48:25 | 38.71 | 38.11 | 803 | 0.24 | 0.31 | 43.9 |
| 4/24/2015 23:48:25 | 39.04 | 38.44 | 803 | 0.25 | 0.33 | 43.9 |
| 4/24/2015 23:48:26 | 39.37 | 38.77 | 834 | 0.25 | 0.33 | 45.6 |
| 4/24/2015 23:48:26 | 39.70 | 39.10 | 821 | 0.31 | 0.33 | 44.9 |
| 4/24/2015 23:48:27 | 40.03 | 39.43 | 821 | 0.24 | 0.33 | 44.9 |
| 4/24/2015 23:48:27 | 40.35 | 39.75 | 821 | 0.24 | 0.33 | 44.9 |
| 4/24/2015 23:48:27 | 40.68 | 40.08 | 828 | 0.24 | 0.33 | 45.3 |
| 4/24/2015 23:48:28 | 41.01 | 40.41 | 828 | 0.24 | 0.32 | 45.3 |
| 4/24/2015 23:48:28 | 41.34 | 40.74 | 827 | 0.24 | 0.33 | 45.2 |
| 4/24/2015 23:48:29 | 41.67 | 41.07 | 849 | 0.24 | 0.33 | 46.5 |
| 4/24/2015 23:48:29 | 41.99 | 41.39 | 842 | 0.24 | 0.33 | 46.0 |
| 4/24/2015 23:48:30 | 42.32 | 41.72 | 842 | 0.24 | 0.33 | 46.0 |
| 4/24/2015 23:48:30 | 42.65 | 42.05 | 838 | 0.24 | 0.33 | 45.8 |
| 4/24/2015 23:48:30 | 42.98 | 42.38 | 838 | 0.24 | 0.33 | 45.8 |
| 4/24/2015 23:48:31 | 43.31 | 42.71 | 842 | 0.24 | 0.33 | 46.0 |
| 4/24/2015 23:48:32 | 43.64 | 43.04 | 835 | 0.24 | 0.33 | 45.7 |
| 4/24/2015 23:48:32 | 43.96 | 43.36 | 835 | 0.24 | 0.33 | 45.7 |
| 4/24/2015 23:48:32 | 44.29 | 43.69 | 821 | 0.24 | 0.33 | 44.9 |
| 4/24/2015 23:48:33 | 44.62 | 44.02 | 823 | 0.24 | 0.33 | 45.0 |
| 4/24/2015 23:48:33 | 44.95 | 44.35 | 845 | 0.24 | 0.35 | 46.2 |
| 4/24/2015 23:48:34 | 45.28 | 44.68 | 814 | 0.22 | 0.37 | 44.5 |
| 4/24/2015 23:48:57 | 45.60 | 45.00 | 60 | 5.62 | 0.38 | 3.3 |
| 4/24/2015 23:49:02 | 45.93 | 45.33 | 34 | 3.88 | 0.37 | 1.9 |
| 4/24/2015 23:49:03 | 46.26 | 45.66 | 59 | 5.10 | 0.37 | 3.3 |
| 4/24/2015 23:49:04 | 46.59 | 45.99 | 175 | 4.36 | 0.38 | 9.6 |
| 4/24/2015 23:49:08 | 46.92 | 46.32 | 81 | 4.67 | 0.41 | 4.4 |
| 4/24/2015 23:49:15 | 47.24 | 46.64 | 29 | 4.40 | 0.39 | 1.6 |
| 4/24/2015 23:49:16 | 47.57 | 46.97 | 36 | 3.89 | 0.38 | 2.0 |
| 4/24/2015 23:49:20 | 47.90 | 47.30 | 74 | 4.93 | 0.39 | 4.1 |
| 4/24/2015 23:49:24 | 48.23 | 47.63 | 88 | 6.37 | 0.39 | 4.8 |
| 4/24/2015 23:49:26 | 48.56 | 47.96 | 106 | 3.88 | 0.38 | 5.8 |
| 4/24/2015 23:49:27 | 48.88 | 48.28 | 189 | 2.97 | 0.39 | 10.4 |
| 4/24/2015 23:49:28 | 49.21 | 48.61 | 290 | 3.65 | 0.37 | 15.8 |
| 4/24/2015 23:49:29 | 49.54 | 48.94 | 355 | 3.52 | 0.37 | 19.4 |
| 4/24/2015 23:49:30 | 49.87 | 49.27 | 390 | 3.77 | 0.36 | 21.3 |
| 4/24/2015 23:49:30 | 50.20 | 49.60 | 408 | 3.48 | 0.36 | 22.3 |
| 4/24/2015 23:50:07 | 50.53 | 49.93 | 22 | 3.20 | 0.36 | 1.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:50:08 | 50.85 | 50.25 | 190 | 4.70 | 0.37 | 10.4 |
| 4/24/2015 | 23:50:09 | 51.18 | 50.58 | 339 | 4.87 | 0.38 | 18.5 |
| 4/24/2015 | 23:50:10 | 51.51 | 50.91 | 370 | 3.86 | 0.38 | 20.2 |
| 4/24/2015 | 23:50:11 | 51.84 | 51.24 | 361 | 3.19 | 0.37 | 19.8 |
| 4/24/2015 | 23:50:12 | 52.17 | 51.57 | 353 | 4.07 | 0.38 | 19.3 |
| 4/24/2015 | 23:50:14 | 52.49 | 51.89 | 145 | 4.87 | 0.38 | 7.9 |
| 4/24/2015 | 23:50:18 | 52.82 | 52.22 | 119 | 4.89 | 0.39 | 6.5 |
| 4/24/2015 | 23:50:21 | 53.15 | 52.55 | 81 | 4.10 | 0.39 | 4.4 |
| 4/24/2015 | 23:50:26 | 53.48 | 52.88 | 115 | 4.76 | 0.37 | 6.3 |
| 4/24/2015 | 23:50:26 | 53.81 | 53.21 | 178 | 3.46 | 0.36 | 9.8 |
| 4/24/2015 | 23:50:27 | 54.13 | 53.53 | 335 | 3.22 | 0.37 | 18.3 |
| 4/24/2015 | 23:50:29 | 54.46 | 53.86 | 324 | 3.11 | 0.37 | 17.7 |
| 4/24/2015 | 23:50:29 | 54.79 | 54.19 | 315 | 2.95 | 0.36 | 17.2 |
| 4/24/2015 | 23:50:30 | 55.12 | 54.52 | 323 | 4.28 | 0.38 | 17.7 |
| 4/24/2015 | 23:50:32 | 55.45 | 54.85 | 246 | 4.46 | 0.37 | 13.5 |
| 4/24/2015 | 23:50:33 | 55.77 | 55.17 | 243 | 3.12 | 0.37 | 13.3 |
| 4/24/2015 | 23:50:33 | 55.91 | 55.31 | 243 | 3.12 | 0.37 | 13.3 |

## H283 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:45:01

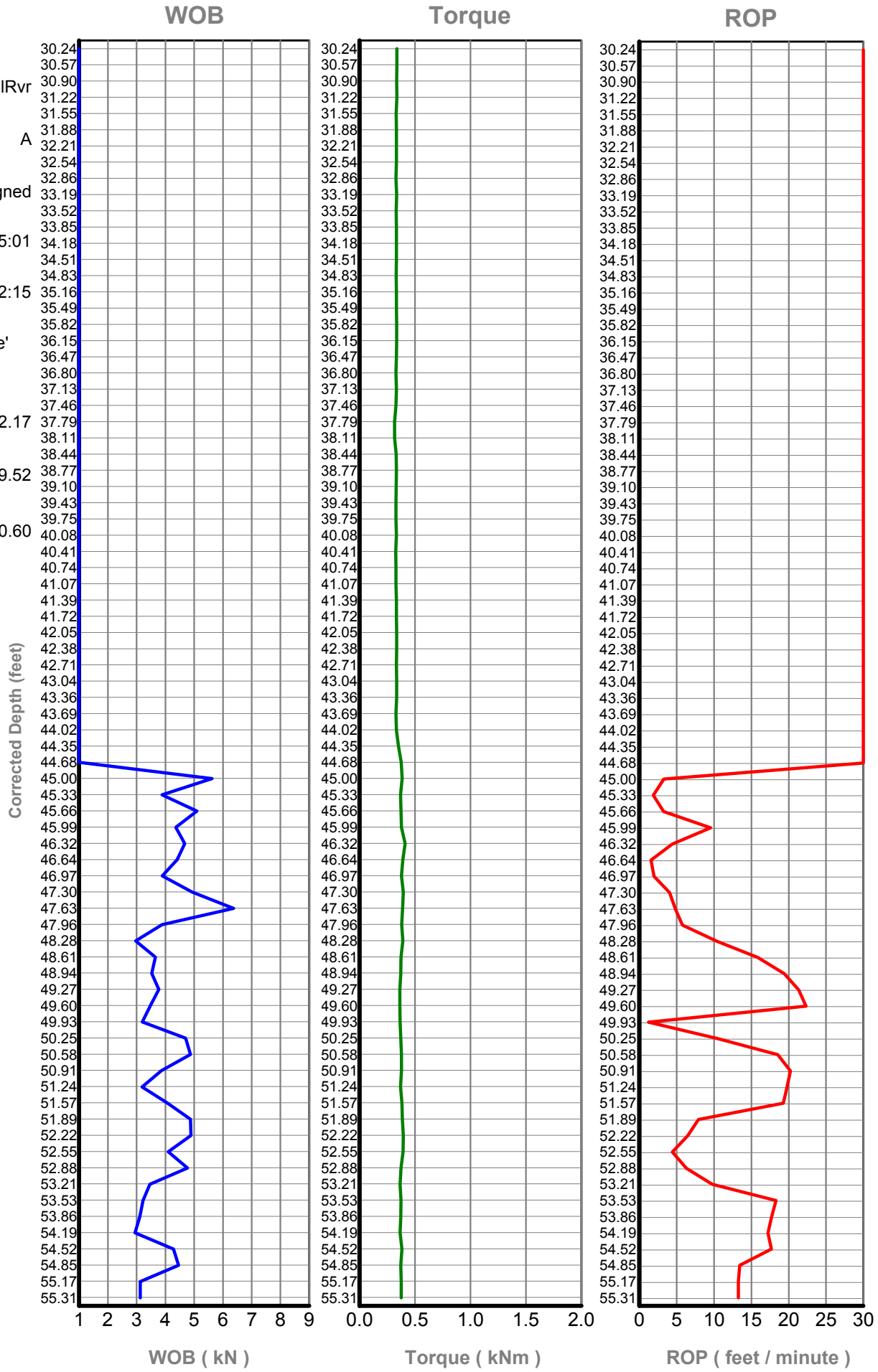
**End Date:**
4/24/2015 23:52:15

**Operator Note:**
'0.6 0.8 b Auto Complete'

**Northing:**
366,662.17

**Easting:**
251,039.52

**Tide (feet):**
0.60



## Hole: H284 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:57:12 | 30.84 | 30.24 | 904 | 0.22 | 0.33 | 49.4 |
| 4/24/2015 23:57:12 | 31.17 | 30.57 | 888 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 23:57:13 | 31.50 | 30.90 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 23:57:13 | 31.82 | 31.22 | 876 | 0.16 | 0.32 | 47.9 |
| 4/24/2015 23:57:14 | 32.15 | 31.55 | 876 | 0.16 | 0.32 | 47.9 |
| 4/24/2015 23:57:14 | 32.48 | 31.88 | 863 | 0.22 | 0.32 | 47.2 |
| 4/24/2015 23:57:14 | 32.81 | 32.21 | 863 | 0.22 | 0.33 | 47.2 |
| 4/24/2015 23:57:15 | 33.14 | 32.54 | 874 | 0.22 | 0.33 | 47.8 |
| 4/24/2015 23:57:15 | 33.46 | 32.86 | 874 | 0.22 | 0.33 | 47.8 |
| 4/24/2015 23:57:15 | 33.79 | 33.19 | 877 | 0.22 | 0.33 | 48.0 |
| 4/24/2015 23:57:16 | 34.12 | 33.52 | 878 | 0.22 | 0.33 | 48.0 |
| 4/24/2015 23:57:16 | 34.45 | 33.85 | 889 | 0.22 | 0.32 | 48.6 |
| 4/24/2015 23:57:17 | 34.78 | 34.18 | 893 | 0.23 | 0.33 | 48.8 |
| 4/24/2015 23:57:17 | 35.11 | 34.51 | 893 | 0.23 | 0.33 | 48.8 |
| 4/24/2015 23:57:17 | 35.43 | 34.83 | 882 | 0.22 | 0.32 | 48.3 |
| 4/24/2015 23:57:18 | 35.76 | 35.16 | 887 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 23:57:18 | 36.09 | 35.49 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 23:57:19 | 36.42 | 35.82 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 23:57:19 | 36.75 | 36.15 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:57:19 | 37.07 | 36.47 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 23:57:20 | 37.40 | 36.80 | 879 | 0.22 | 0.33 | 48.1 |
| 4/24/2015 23:57:20 | 37.73 | 37.13 | 879 | 0.22 | 0.32 | 48.1 |
| 4/24/2015 23:57:21 | 38.06 | 37.46 | 879 | 0.22 | 0.32 | 48.1 |
| 4/24/2015 23:57:21 | 38.39 | 37.79 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 23:57:21 | 38.71 | 38.11 | 882 | 0.22 | 0.33 | 48.2 |
| 4/24/2015 23:57:22 | 39.04 | 38.44 | 893 | 0.22 | 0.33 | 48.8 |
| 4/24/2015 23:57:23 | 39.37 | 38.77 | 893 | 0.22 | 0.33 | 48.8 |
| 4/24/2015 23:57:23 | 39.70 | 39.10 | 890 | 0.22 | 0.33 | 48.7 |
| 4/24/2015 23:57:23 | 40.03 | 39.43 | 893 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 23:57:24 | 40.35 | 39.75 | 896 | 0.22 | 0.33 | 49.0 |
| 4/24/2015 23:57:24 | 40.68 | 40.08 | 896 | 0.22 | 0.33 | 49.0 |
| 4/24/2015 23:57:24 | 41.01 | 40.41 | 893 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 23:57:25 | 41.34 | 40.74 | 887 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 23:57:25 | 41.67 | 41.07 | 876 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 23:57:26 | 41.99 | 41.39 | 876 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 23:57:26 | 42.32 | 41.72 | 876 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 23:57:26 | 42.65 | 42.05 | 883 | 0.22 | 0.33 | 48.3 |
| 4/24/2015 23:57:27 | 42.98 | 42.38 | 880 | 0.22 | 0.33 | 48.1 |
| 4/24/2015 23:57:27 | 43.31 | 42.71 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 23:57:28 | 43.64 | 43.04 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 23:57:28 | 43.96 | 43.36 | 883 | 0.22 | 0.32 | 48.3 |
| 4/24/2015 23:57:28 | 44.29 | 43.69 | 898 | 0.22 | 0.33 | 49.1 |
| 4/24/2015 23:57:29 | 44.62 | 44.02 | 890 | 0.22 | 0.32 | 48.7 |
| 4/24/2015 23:57:29 | 44.95 | 44.35 | 890 | 0.22 | 0.32 | 48.7 |
| 4/24/2015 23:57:29 | 45.28 | 44.68 | 890 | 0.22 | 0.33 | 48.7 |
| 4/24/2015 23:57:30 | 45.60 | 45.00 | 882 | 0.20 | 0.35 | 48.2 |
| 4/24/2015 23:57:54 | 45.93 | 45.33 | 0 | 2.46 | 0.34 | 0.0 |
| 4/24/2015 23:57:55 | 46.26 | 45.66 | 59 | 5.04 | 0.37 | 3.2 |
| 4/24/2015 23:57:58 | 46.59 | 45.99 | 185 | 5.63 | 0.39 | 10.1 |
| 4/24/2015 23:58:01 | 46.92 | 46.32 | 139 | 4.99 | 0.38 | 7.6 |
| 4/24/2015 23:58:03 | 47.24 | 46.64 | 147 | 3.62 | 0.37 | 8.0 |
| 4/24/2015 23:58:06 | 47.57 | 46.97 | 174 | 6.38 | 0.39 | 9.5 |
| 4/24/2015 23:58:07 | 47.90 | 47.30 | 155 | 2.31 | 0.35 | 8.5 |
| 4/24/2015 23:58:08 | 48.23 | 47.63 | 258 | 4.23 | 0.36 | 14.1 |
| 4/24/2015 23:58:08 | 48.56 | 47.96 | 350 | 3.50 | 0.37 | 19.1 |
| 4/24/2015 23:58:09 | 48.88 | 48.28 | 454 | 2.42 | 0.35 | 24.8 |
| 4/24/2015 23:58:10 | 49.21 | 48.61 | 508 | 3.18 | 0.37 | 27.8 |
| 4/24/2015 23:58:11 | 49.54 | 48.94 | 369 | 3.15 | 0.37 | 20.2 |
| 4/24/2015 23:58:12 | 49.87 | 49.27 | 367 | 2.84 | 0.36 | 20.1 |
| 4/24/2015 23:58:24 | 50.20 | 49.60 | 12 | 4.83 | 0.40 | 0.6 |
| 4/24/2015 23:58:26 | 50.53 | 49.93 | 127 | 4.99 | 0.37 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:58:26 | 50.85 | 50.25 | 199 | 3.37 | 0.36 | 10.9 |
| 4/24/2015 | 23:58:27 | 51.18 | 50.58 | 353 | 4.05 | 0.37 | 19.3 |
| 4/24/2015 | 23:58:28 | 51.51 | 50.91 | 422 | 5.65 | 0.38 | 23.1 |
| 4/24/2015 | 23:58:53 | 51.84 | 51.24 | 0 | 2.64 | 0.35 | 0.0 |
| 4/24/2015 | 23:58:54 | 52.17 | 51.57 | 161 | 3.73 | 0.39 | 8.8 |
| 4/24/2015 | 23:58:55 | 52.49 | 51.89 | 243 | 3.64 | 0.37 | 13.3 |
| 4/24/2015 | 23:58:58 | 52.82 | 52.22 | 203 | 5.04 | 0.38 | 11.1 |
| 4/24/2015 | 23:58:59 | 53.15 | 52.55 | 159 | 3.37 | 0.37 | 8.7 |
| 4/24/2015 | 23:59:00 | 53.48 | 52.88 | 275 | 4.16 | 0.39 | 15.0 |
| 4/24/2015 | 23:59:04 | 53.81 | 53.21 | 54 | 5.23 | 0.38 | 3.0 |
| 4/24/2015 | 23:59:05 | 54.13 | 53.53 | 119 | 5.14 | 0.38 | 6.5 |
| 4/24/2015 | 23:59:07 | 54.46 | 53.86 | 198 | 3.27 | 0.36 | 10.8 |
| 4/24/2015 | 23:59:08 | 54.79 | 54.19 | 298 | 3.51 | 0.36 | 16.3 |
| 4/24/2015 | 23:59:09 | 55.12 | 54.52 | 326 | 2.82 | 0.37 | 17.8 |
| 4/24/2015 | 23:59:11 | 55.45 | 54.85 | 181 | 3.81 | 0.40 | 9.9 |
| 4/24/2015 | 23:59:13 | 55.71 | 55.11 | 110 | 5.30 | 0.38 | 6.0 |

## H284 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:53:47

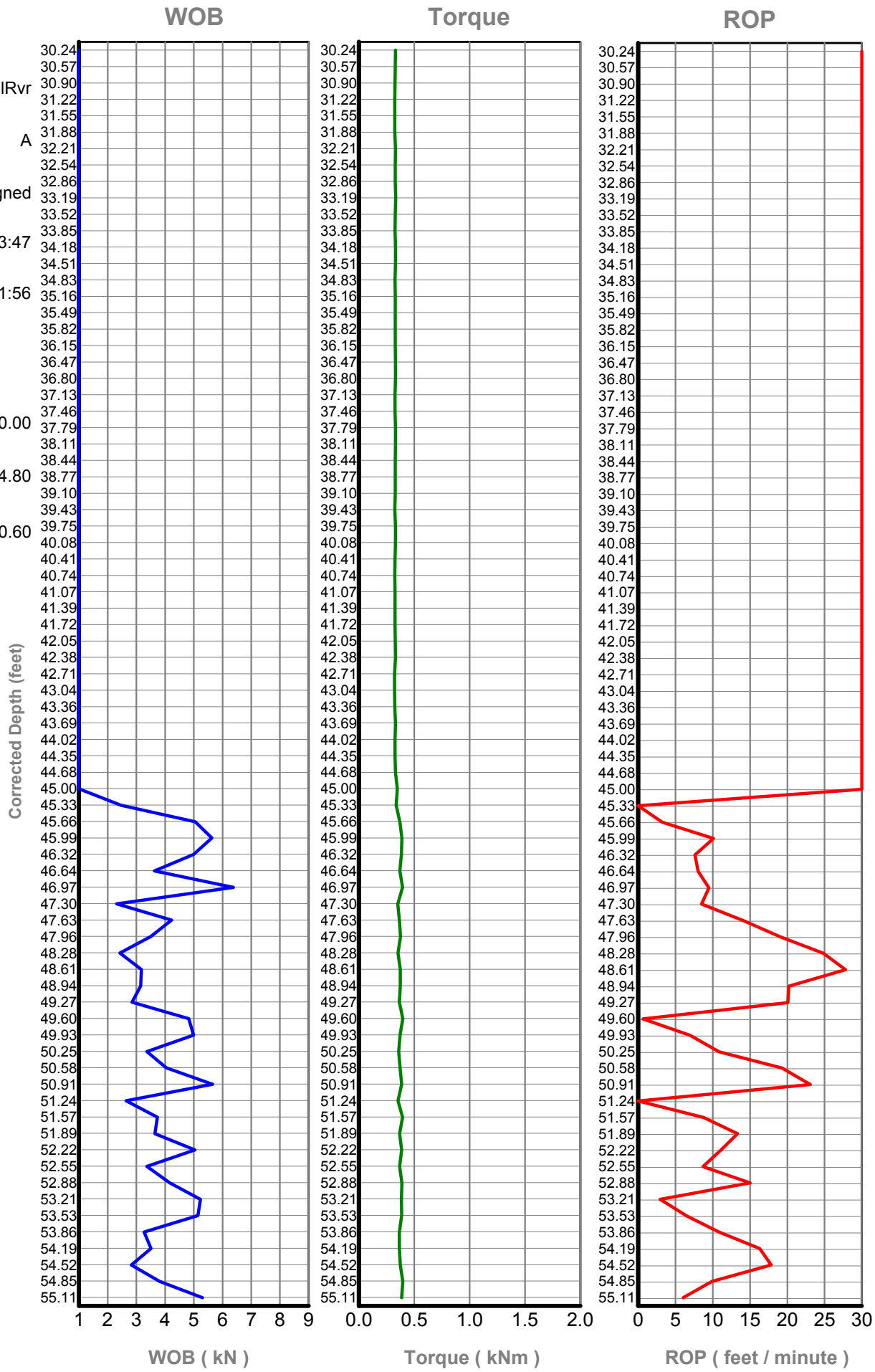
**End Date:**
4/25/2015 0:01:56

**Operator Note:**
'0.6 '1.8 .7 b Auto Complete'

**Northing:**
366,700.00

**Easting:**
251,084.80

**Tide (feet):**
0.60



## Hole: H285 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 23:49:17 | 30.84 | 30.24 | 605 | 1.99 | 0.15 | 33.1 |
| 4/24/2015 23:49:17 | 31.17 | 30.57 | 592 | 1.98 | 0.16 | 32.3 |
| 4/24/2015 23:49:18 | 31.50 | 30.90 | 580 | 1.99 | 0.16 | 31.7 |
| 4/24/2015 23:49:18 | 31.82 | 31.22 | 580 | 1.98 | 0.16 | 31.7 |
| 4/24/2015 23:49:19 | 32.15 | 31.55 | 582 | 1.99 | 0.16 | 31.8 |
| 4/24/2015 23:49:20 | 32.48 | 31.88 | 588 | 1.99 | 0.16 | 32.2 |
| 4/24/2015 23:49:20 | 32.81 | 32.21 | 584 | 1.92 | 0.16 | 32.0 |
| 4/24/2015 23:49:21 | 33.14 | 32.54 | 588 | 1.98 | 0.15 | 32.2 |
| 4/24/2015 23:49:21 | 33.46 | 32.86 | 588 | 1.98 | 0.15 | 32.2 |
| 4/24/2015 23:49:22 | 33.79 | 33.19 | 603 | 1.98 | 0.16 | 33.0 |
| 4/24/2015 23:49:22 | 34.12 | 33.52 | 603 | 1.98 | 0.16 | 33.0 |
| 4/24/2015 23:49:23 | 34.45 | 33.85 | 602 | 1.99 | 0.15 | 32.9 |
| 4/24/2015 23:49:24 | 34.78 | 34.18 | 608 | 1.99 | 0.15 | 33.3 |
| 4/24/2015 23:49:25 | 35.11 | 34.51 | 581 | 1.98 | 0.15 | 31.8 |
| 4/24/2015 23:49:25 | 35.43 | 34.83 | 581 | 1.98 | 0.15 | 31.8 |
| 4/24/2015 23:49:26 | 35.76 | 35.16 | 584 | 2.00 | 0.16 | 31.9 |
| 4/24/2015 23:49:26 | 36.09 | 35.49 | 591 | 1.98 | 0.15 | 32.3 |
| 4/24/2015 23:49:27 | 36.42 | 35.82 | 595 | 1.98 | 0.15 | 32.5 |
| 4/24/2015 23:49:28 | 36.75 | 36.15 | 606 | 1.99 | 0.15 | 33.1 |
| 4/24/2015 23:49:28 | 37.07 | 36.47 | 587 | 2.00 | 0.15 | 32.1 |
| 4/24/2015 23:49:29 | 37.40 | 36.80 | 587 | 1.99 | 0.15 | 32.1 |
| 4/24/2015 23:49:29 | 37.73 | 37.13 | 587 | 1.97 | 0.16 | 32.1 |
| 4/24/2015 23:49:30 | 38.06 | 37.46 | 587 | 1.97 | 0.15 | 32.1 |
| 4/24/2015 23:49:30 | 38.39 | 37.79 | 594 | 1.98 | 0.16 | 32.5 |
| 4/24/2015 23:49:31 | 38.71 | 38.11 | 598 | 1.98 | 0.15 | 32.7 |
| 4/24/2015 23:49:32 | 39.04 | 38.44 | 594 | 1.98 | 0.15 | 32.5 |
| 4/24/2015 23:49:32 | 39.37 | 38.77 | 594 | 1.98 | 0.16 | 32.5 |
| 4/24/2015 23:49:33 | 39.70 | 39.10 | 601 | 2.00 | 0.15 | 32.9 |
| 4/24/2015 23:49:34 | 40.03 | 39.43 | 587 | 1.98 | 0.15 | 32.1 |
| 4/24/2015 23:49:34 | 40.35 | 39.75 | 574 | 2.00 | 0.16 | 31.4 |
| 4/24/2015 23:49:35 | 40.68 | 40.08 | 574 | 1.98 | 0.16 | 31.4 |
| 4/24/2015 23:49:36 | 41.01 | 40.41 | 577 | 2.25 | 0.16 | 31.5 |
| 4/24/2015 23:49:36 | 41.34 | 40.74 | 594 | 1.97 | 0.15 | 32.5 |
| 4/24/2015 23:49:37 | 41.67 | 41.07 | 593 | 1.99 | 0.15 | 32.4 |
| 4/24/2015 23:49:37 | 41.99 | 41.39 | 600 | 1.95 | 0.14 | 32.8 |
| 4/24/2015 23:49:38 | 42.32 | 41.72 | 610 | 1.97 | 0.16 | 33.3 |
| 4/24/2015 23:49:38 | 42.65 | 42.05 | 607 | 1.97 | 0.15 | 33.2 |
| 4/24/2015 23:49:39 | 42.98 | 42.38 | 599 | 1.98 | 0.15 | 32.8 |
| 4/24/2015 23:49:40 | 43.31 | 42.71 | 593 | 1.96 | 0.16 | 32.4 |
| 4/24/2015 23:49:40 | 43.64 | 43.04 | 589 | 1.98 | 0.16 | 32.2 |
| 4/24/2015 23:49:41 | 43.96 | 43.36 | 596 | 1.98 | 0.15 | 32.6 |
| 4/24/2015 23:49:41 | 44.29 | 43.69 | 596 | 1.97 | 0.15 | 32.6 |
| 4/24/2015 23:49:42 | 44.62 | 44.02 | 596 | 1.97 | 0.15 | 32.6 |
| 4/24/2015 23:49:42 | 44.95 | 44.35 | 596 | 1.99 | 0.15 | 32.6 |
| 4/24/2015 23:49:43 | 45.28 | 44.68 | 593 | 1.97 | 0.15 | 32.4 |
| 4/24/2015 23:49:44 | 45.60 | 45.00 | 590 | 1.90 | 0.16 | 32.2 |
| 4/24/2015 23:50:06 | 45.93 | 45.33 | 46 | 1.96 | 1.13 | 2.5 |
| 4/24/2015 23:50:06 | 46.26 | 45.66 | 161 | 1.95 | 1.25 | 8.8 |
| 4/24/2015 23:50:12 | 46.59 | 45.99 | 75 | 2.05 | 1.33 | 4.1 |
| 4/24/2015 23:50:13 | 46.92 | 46.32 | 202 | 2.00 | 1.22 | 11.0 |
| 4/24/2015 23:50:26 | 47.24 | 46.64 | 0 | 2.02 | 1.26 | 0.0 |
| 4/24/2015 23:50:37 | 47.57 | 46.97 | 30 | 2.00 | 1.19 | 1.7 |
| 4/24/2015 23:50:38 | 47.90 | 47.30 | 153 | 1.99 | 1.23 | 8.3 |
| 4/24/2015 23:50:39 | 48.23 | 47.63 | 269 | 2.00 | 1.19 | 14.7 |
| 4/24/2015 23:50:58 | 48.56 | 47.96 | 31 | 1.99 | 1.21 | 1.7 |
| 4/24/2015 23:50:59 | 48.88 | 48.28 | 139 | 1.98 | 1.32 | 7.6 |
| 4/24/2015 23:51:01 | 49.21 | 48.61 | 270 | 1.98 | 1.21 | 14.8 |
| 4/24/2015 23:51:06 | 49.54 | 48.94 | 0 | 2.00 | 1.00 | 0.0 |
| 4/24/2015 23:51:07 | 49.87 | 49.27 | 0 | 2.02 | 0.98 | 0.0 |
| 4/24/2015 23:51:07 | 50.20 | 49.60 | 96 | 2.00 | 1.04 | 5.2 |
| 4/24/2015 23:51:09 | 50.53 | 49.93 | 283 | 2.00 | 1.15 | 15.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 23:51:13 | 50.85 | 50.25 | 83 | 1.98 | 1.22 | 4.5 |
| 4/24/2015 | 23:51:15 | 51.18 | 50.58 | 140 | 1.98 | 1.15 | 7.6 |
| 4/24/2015 | 23:51:16 | 51.51 | 50.91 | 210 | 1.95 | 1.09 | 11.5 |
| 4/24/2015 | 23:51:17 | 51.84 | 51.24 | 287 | 1.96 | 1.16 | 15.7 |
| 4/24/2015 | 23:51:42 | 52.17 | 51.57 | 3 | 1.90 | 1.12 | 0.1 |
| 4/24/2015 | 23:51:44 | 52.49 | 51.89 | 139 | 1.99 | 1.10 | 7.6 |
| 4/24/2015 | 23:51:45 | 52.82 | 52.22 | 283 | 2.00 | 1.17 | 15.5 |
| 4/24/2015 | 23:51:52 | 53.15 | 52.55 | 0 | 1.97 | 1.18 | 0.0 |
| 4/24/2015 | 23:51:53 | 53.48 | 52.88 | 114 | 1.98 | 1.15 | 6.2 |
| 4/24/2015 | 23:51:54 | 53.81 | 53.21 | 247 | 1.99 | 1.16 | 13.5 |
| 4/24/2015 | 23:52:08 | 54.13 | 53.53 | 131 | 1.95 | 1.07 | 7.2 |
| 4/24/2015 | 23:52:09 | 54.46 | 53.86 | 239 | 1.98 | 1.06 | 13.1 |
| 4/24/2015 | 23:52:11 | 54.79 | 54.19 | 334 | 2.00 | 1.17 | 18.3 |
| 4/24/2015 | 23:52:12 | 55.12 | 54.52 | 319 | 2.00 | 1.14 | 17.4 |
| 4/24/2015 | 23:52:13 | 55.45 | 54.85 | 260 | 2.01 | 1.10 | 14.2 |
| 4/24/2015 | 23:52:15 | 55.77 | 55.17 | 214 | 1.98 | 1.20 | 11.7 |
| 4/24/2015 | 23:52:15 | 55.98 | 55.38 | 214 | 1.98 | 1.03 | 11.7 |

## H285 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 23:46:50

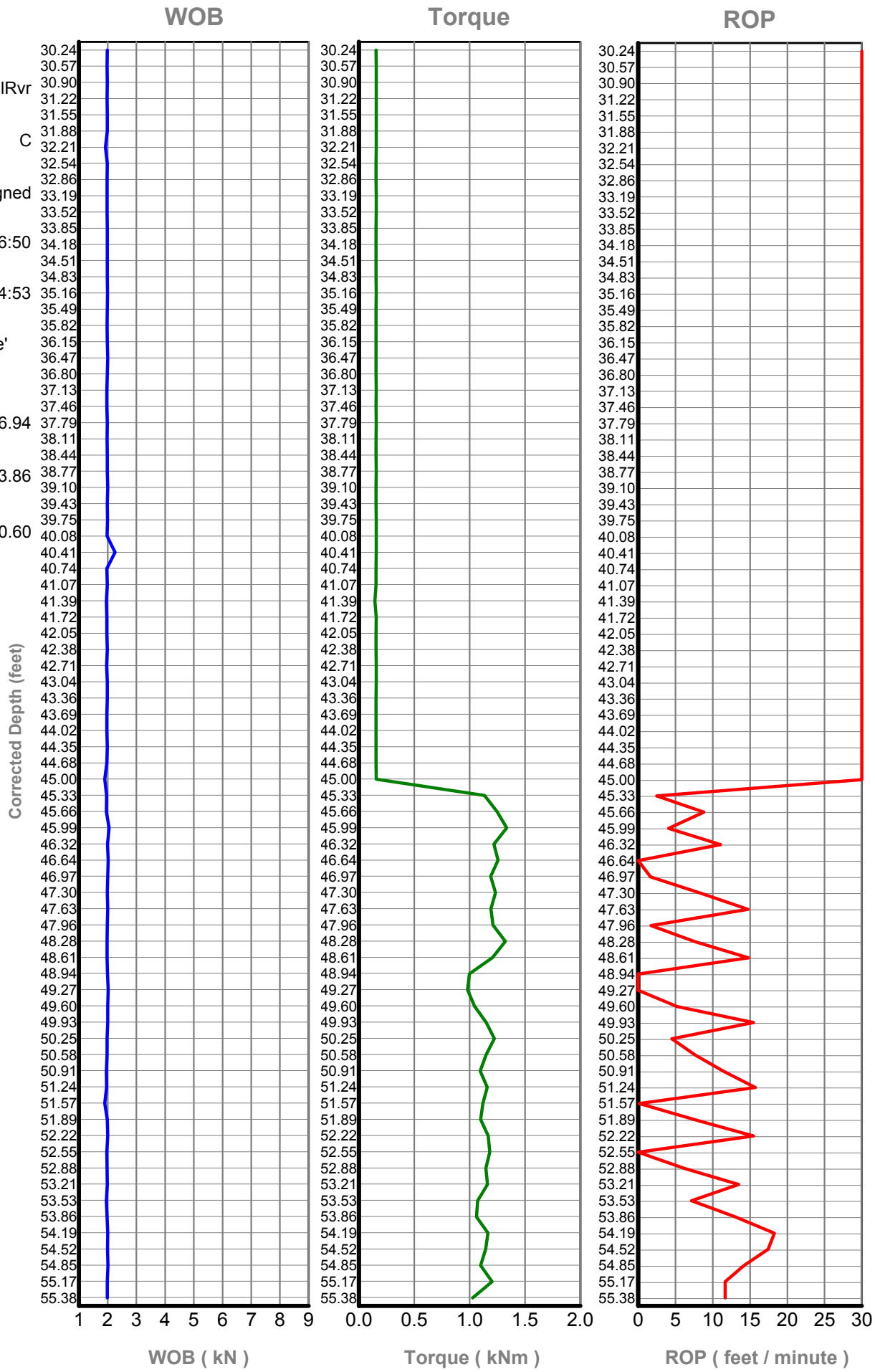
**End Date:**
4/24/2015 23:54:53

**Operator Note:**
'0.6 0.8 c Auto Complete'

**Northing:**
366,746.94

**Easting:**
251,143.86

**Tide (feet):**
0.60



## Hole: H286 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:25:42 | 33.46 | 30.26 | 856 | 0.49 | 0.33 | 46.8 |
| 4/24/2015 8:25:42 | 33.79 | 30.59 | 858 | 0.57 | 0.34 | 46.9 |
| 4/24/2015 8:25:43 | 34.12 | 30.92 | 847 | 0.56 | 0.34 | 46.3 |
| 4/24/2015 8:25:43 | 34.45 | 31.25 | 847 | 0.56 | 0.34 | 46.3 |
| 4/24/2015 8:25:43 | 34.78 | 31.58 | 820 | 0.57 | 0.34 | 44.8 |
| 4/24/2015 8:25:44 | 35.11 | 31.91 | 837 | 0.56 | 0.34 | 45.8 |
| 4/24/2015 8:25:44 | 35.43 | 32.23 | 807 | 0.56 | 0.34 | 44.2 |
| 4/24/2015 8:25:45 | 35.76 | 32.56 | 802 | 0.45 | 0.33 | 43.8 |
| 4/24/2015 8:25:45 | 36.09 | 32.89 | 810 | 0.36 | 0.32 | 44.3 |
| 4/24/2015 8:25:46 | 36.42 | 33.22 | 810 | 0.36 | 0.32 | 44.3 |
| 4/24/2015 8:25:46 | 36.75 | 33.55 | 829 | 0.37 | 0.33 | 45.3 |
| 4/24/2015 8:25:46 | 37.07 | 33.87 | 828 | 0.45 | 0.32 | 45.3 |
| 4/24/2015 8:25:47 | 37.40 | 34.20 | 833 | 0.37 | 0.32 | 45.6 |
| 4/24/2015 8:25:47 | 37.73 | 34.53 | 848 | 0.36 | 0.32 | 46.4 |
| 4/24/2015 8:25:48 | 38.06 | 34.86 | 848 | 0.36 | 0.32 | 46.4 |
| 4/24/2015 8:25:48 | 38.39 | 35.19 | 862 | 0.41 | 0.33 | 47.1 |
| 4/24/2015 8:25:48 | 38.71 | 35.51 | 840 | 0.40 | 0.33 | 45.9 |
| 4/24/2015 8:25:49 | 39.04 | 35.84 | 840 | 0.37 | 0.36 | 45.9 |
| 4/24/2015 8:25:50 | 39.37 | 36.17 | 858 | 0.36 | 0.32 | 46.9 |
| 4/24/2015 8:25:50 | 39.70 | 36.50 | 858 | 0.36 | 0.32 | 46.9 |
| 4/24/2015 8:25:50 | 40.03 | 36.83 | 869 | 0.37 | 0.32 | 47.5 |
| 4/24/2015 8:25:51 | 40.35 | 37.15 | 872 | 0.37 | 0.33 | 47.7 |
| 4/24/2015 8:25:51 | 40.68 | 37.48 | 867 | 0.36 | 0.33 | 47.4 |
| 4/24/2015 8:25:52 | 41.01 | 37.81 | 867 | 0.36 | 0.33 | 47.4 |
| 4/24/2015 8:25:52 | 41.34 | 38.14 | 883 | 0.37 | 0.32 | 48.3 |
| 4/24/2015 8:25:52 | 41.67 | 38.47 | 873 | 0.37 | 0.33 | 47.7 |
| 4/24/2015 8:25:53 | 41.99 | 38.79 | 873 | 0.37 | 0.33 | 47.7 |
| 4/24/2015 8:25:53 | 42.32 | 39.12 | 876 | 0.37 | 0.32 | 47.9 |
| 4/24/2015 8:25:54 | 42.65 | 39.45 | 876 | 0.37 | 0.32 | 47.9 |
| 4/24/2015 8:25:54 | 42.98 | 39.78 | 876 | 0.37 | 0.33 | 47.9 |
| 4/24/2015 8:25:54 | 43.31 | 40.11 | 890 | 0.37 | 0.32 | 48.6 |
| 4/24/2015 8:25:55 | 43.64 | 40.44 | 875 | 0.37 | 0.32 | 47.8 |
| 4/24/2015 8:25:55 | 43.96 | 40.76 | 875 | 0.37 | 0.32 | 47.8 |
| 4/24/2015 8:25:55 | 44.29 | 41.09 | 886 | 0.36 | 0.32 | 48.4 |
| 4/24/2015 8:25:56 | 44.62 | 41.42 | 878 | 0.36 | 0.33 | 48.0 |
| 4/24/2015 8:25:56 | 44.95 | 41.75 | 886 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 8:25:57 | 45.28 | 42.08 | 881 | 0.36 | 0.33 | 48.2 |
| 4/24/2015 8:25:57 | 45.60 | 42.40 | 881 | 0.36 | 0.33 | 48.2 |
| 4/24/2015 8:25:57 | 45.93 | 42.73 | 890 | 0.36 | 0.32 | 48.6 |
| 4/24/2015 8:25:58 | 46.26 | 43.06 | 873 | 0.36 | 0.32 | 47.7 |
| 4/24/2015 8:25:58 | 46.59 | 43.39 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:25:59 | 46.92 | 43.72 | 878 | 0.37 | 0.33 | 48.0 |
| 4/24/2015 8:25:59 | 47.24 | 44.04 | 870 | 0.37 | 0.33 | 47.6 |
| 4/24/2015 8:26:00 | 47.57 | 44.37 | 870 | 0.40 | 0.33 | 47.6 |
| 4/24/2015 8:26:00 | 47.90 | 44.70 | 873 | 0.36 | 0.35 | 47.7 |
| 4/24/2015 8:26:01 | 48.23 | 45.03 | 844 | 0.39 | 0.38 | 46.2 |
| 4/24/2015 8:26:19 | 48.56 | 45.36 | 79 | 3.63 | 0.38 | 4.3 |
| 4/24/2015 8:26:21 | 48.88 | 45.68 | 153 | 5.48 | 0.38 | 8.3 |
| 4/24/2015 8:26:23 | 49.21 | 46.01 | 176 | 4.47 | 0.38 | 9.6 |
| 4/24/2015 8:26:24 | 49.54 | 46.34 | 229 | 3.01 | 0.37 | 12.5 |
| 4/24/2015 8:26:26 | 49.87 | 46.67 | 232 | 4.66 | 0.38 | 12.7 |
| 4/24/2015 8:26:34 | 50.20 | 47.00 | 32 | 5.07 | 0.40 | 1.8 |
| 4/24/2015 8:26:38 | 50.53 | 47.33 | 98 | 4.27 | 0.38 | 5.4 |
| 4/24/2015 8:26:43 | 50.85 | 47.65 | 78 | 3.67 | 0.37 | 4.3 |
| 4/24/2015 8:26:49 | 51.18 | 47.98 | 29 | 4.45 | 0.38 | 1.6 |
| 4/24/2015 8:26:50 | 51.51 | 48.31 | 110 | 2.49 | 0.36 | 6.0 |
| 4/24/2015 8:26:52 | 51.84 | 48.64 | 271 | 3.32 | 0.37 | 14.8 |
| 4/24/2015 8:26:52 | 52.17 | 48.97 | 271 | 3.18 | 0.37 | 14.8 |
| 4/24/2015 8:26:58 | 52.49 | 49.29 | 32 | 4.69 | 0.39 | 1.8 |
| 4/24/2015 8:27:00 | 52.82 | 49.62 | 142 | 4.30 | 0.39 | 7.8 |
| 4/24/2015 8:27:04 | 53.15 | 49.95 | 127 | 4.11 | 0.39 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:27:10 | 53.48 | 50.28 | 76 | 4.38 | 0.38 | 4.1 |
| 4/24/2015 | 8:27:11 | 53.81 | 50.61 | 173 | 3.92 | 0.37 | 9.5 |
| 4/24/2015 | 8:27:13 | 54.13 | 50.93 | 270 | 4.07 | 0.37 | 14.8 |
| 4/24/2015 | 8:27:14 | 54.46 | 51.26 | 316 | 3.73 | 0.36 | 17.3 |
| 4/24/2015 | 8:27:14 | 54.79 | 51.59 | 348 | 3.09 | 0.36 | 19.0 |
| 4/24/2015 | 8:27:15 | 55.12 | 51.92 | 408 | 4.46 | 0.42 | 22.3 |
| 4/24/2015 | 8:27:16 | 55.45 | 52.25 | 421 | 3.37 | 0.36 | 23.0 |
| 4/24/2015 | 8:27:56 | 55.77 | 52.57 | 18 | 3.16 | 0.36 | 1.0 |
| 4/24/2015 | 8:27:57 | 56.10 | 52.90 | 181 | 8.39 | 0.38 | 9.9 |
| 4/24/2015 | 8:27:58 | 56.43 | 53.23 | 275 | 4.04 | 0.36 | 15.0 |
| 4/24/2015 | 8:27:58 | 56.76 | 53.56 | 342 | 2.63 | 0.36 | 18.7 |
| 4/24/2015 | 8:27:59 | 57.09 | 53.89 | 385 | 3.39 | 0.36 | 21.0 |
| 4/24/2015 | 8:28:00 | 57.41 | 54.21 | 454 | 4.26 | 0.37 | 24.8 |
| 4/24/2015 | 8:28:01 | 57.74 | 54.54 | 449 | 3.80 | 0.36 | 24.5 |
| 4/24/2015 | 8:28:02 | 58.07 | 54.87 | 417 | 3.69 | 0.37 | 22.8 |
| 4/24/2015 | 8:28:03 | 58.40 | 55.20 | 384 | 3.52 | 0.38 | 21.0 |

## H286 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:22:49

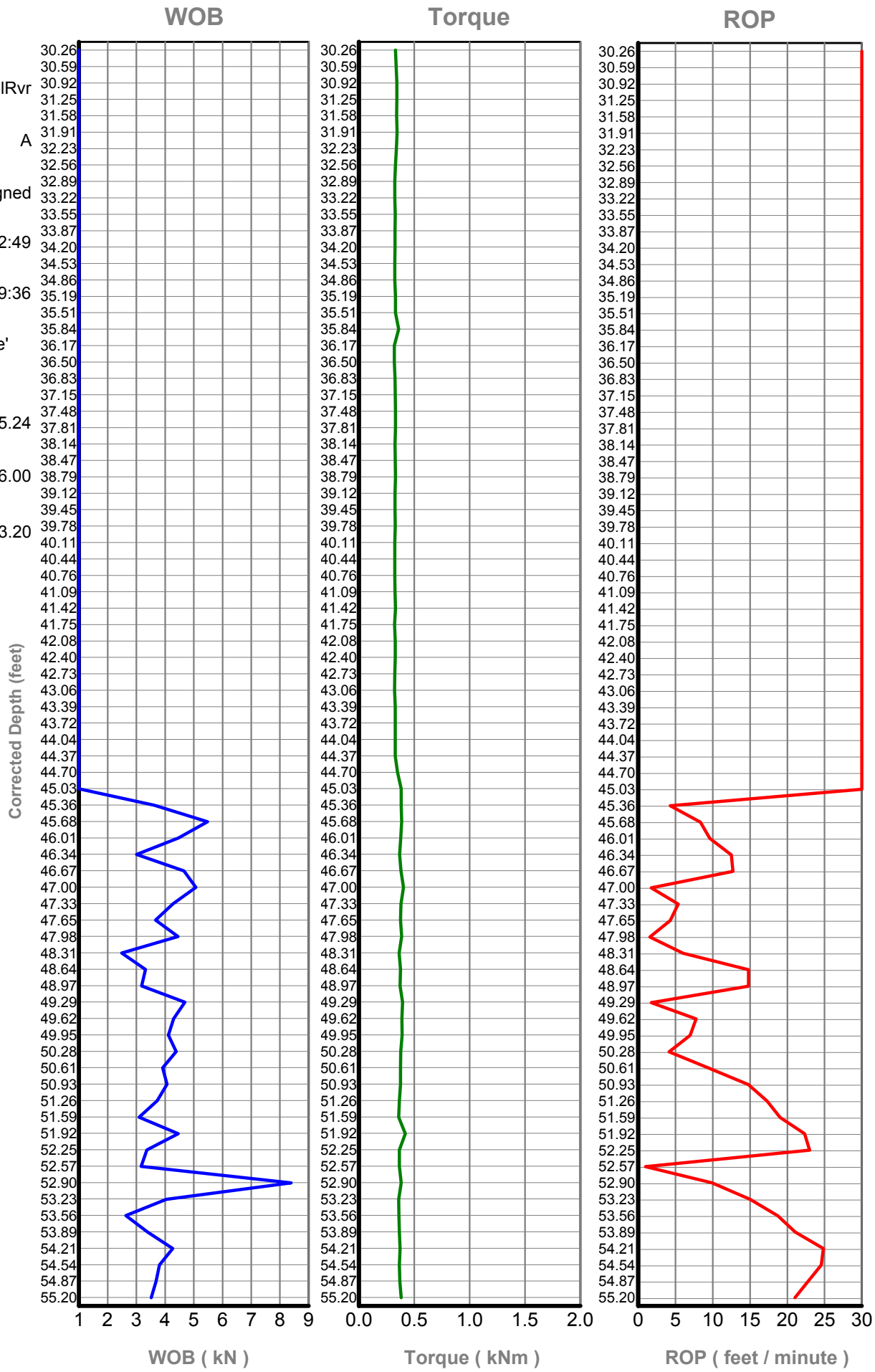
**End Date:**
4/24/2015 8:29:36

**Operator Note:**
'3.2 3.3 b Auto Complete'

**Northing:**
366,815.24

**Easting:**
251,216.00

**Tide (feet):**
3.20



## Hole: H287 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:17:43 | 33.46 | 30.26 | 856 | 0.37 | 0.33 | 46.8 |
| 4/24/2015 8:17:43 | 33.79 | 30.59 | 869 | 0.37 | 0.33 | 47.5 |
| 4/24/2015 8:17:44 | 34.12 | 30.92 | 861 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 8:17:44 | 34.45 | 31.25 | 861 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 8:17:44 | 34.78 | 31.58 | 856 | 0.37 | 0.33 | 46.8 |
| 4/24/2015 8:17:45 | 35.11 | 31.91 | 864 | 0.36 | 0.33 | 47.3 |
| 4/24/2015 8:17:45 | 35.43 | 32.23 | 862 | 0.37 | 0.33 | 47.1 |
| 4/24/2015 8:17:46 | 35.76 | 32.56 | 859 | 0.37 | 0.33 | 47.0 |
| 4/24/2015 8:17:46 | 36.09 | 32.89 | 859 | 0.37 | 0.33 | 47.0 |
| 4/24/2015 8:17:46 | 36.42 | 33.22 | 851 | 0.37 | 0.33 | 46.5 |
| 4/24/2015 8:17:47 | 36.75 | 33.55 | 862 | 0.36 | 0.33 | 47.1 |
| 4/24/2015 8:17:47 | 37.07 | 33.87 | 848 | 0.36 | 0.33 | 46.4 |
| 4/24/2015 8:17:48 | 37.40 | 34.20 | 845 | 0.36 | 0.33 | 46.2 |
| 4/24/2015 8:17:48 | 37.73 | 34.53 | 845 | 0.41 | 0.32 | 46.2 |
| 4/24/2015 8:17:49 | 38.06 | 34.86 | 845 | 0.41 | 0.32 | 46.2 |
| 4/24/2015 8:17:49 | 38.39 | 35.19 | 852 | 0.36 | 0.32 | 46.6 |
| 4/24/2015 8:17:49 | 38.71 | 35.51 | 847 | 0.36 | 0.32 | 46.3 |
| 4/24/2015 8:17:50 | 39.04 | 35.84 | 850 | 0.36 | 0.33 | 46.5 |
| 4/24/2015 8:17:51 | 39.37 | 36.17 | 851 | 0.36 | 0.33 | 46.5 |
| 4/24/2015 8:17:51 | 39.70 | 36.50 | 851 | 0.36 | 0.33 | 46.5 |
| 4/24/2015 8:17:51 | 40.03 | 36.83 | 859 | 0.36 | 0.33 | 47.0 |
| 4/24/2015 8:17:52 | 40.35 | 37.15 | 859 | 0.36 | 0.33 | 47.0 |
| 4/24/2015 8:17:52 | 40.68 | 37.48 | 859 | 0.36 | 0.33 | 47.0 |
| 4/24/2015 8:17:53 | 41.01 | 37.81 | 859 | 0.35 | 0.32 | 47.0 |
| 4/24/2015 8:17:53 | 41.34 | 38.14 | 859 | 0.35 | 0.32 | 47.0 |
| 4/24/2015 8:17:53 | 41.67 | 38.47 | 861 | 0.35 | 0.33 | 47.1 |
| 4/24/2015 8:17:54 | 41.99 | 38.79 | 856 | 0.36 | 0.33 | 46.8 |
| 4/24/2015 8:17:54 | 42.32 | 39.12 | 856 | 0.36 | 0.33 | 46.8 |
| 4/24/2015 8:17:55 | 42.65 | 39.45 | 848 | 0.36 | 0.33 | 46.4 |
| 4/24/2015 8:17:55 | 42.98 | 39.78 | 848 | 0.36 | 0.33 | 46.4 |
| 4/24/2015 8:17:55 | 43.31 | 40.11 | 850 | 0.36 | 0.33 | 46.5 |
| 4/24/2015 8:17:56 | 43.64 | 40.44 | 847 | 0.36 | 0.33 | 46.3 |
| 4/24/2015 8:17:56 | 43.96 | 40.76 | 841 | 0.36 | 0.33 | 46.0 |
| 4/24/2015 8:17:57 | 44.29 | 41.09 | 841 | 0.36 | 0.33 | 46.0 |
| 4/24/2015 8:17:57 | 44.62 | 41.42 | 841 | 0.36 | 0.33 | 46.0 |
| 4/24/2015 8:17:57 | 44.95 | 41.75 | 844 | 0.36 | 0.33 | 46.2 |
| 4/24/2015 8:17:58 | 45.28 | 42.08 | 847 | 0.36 | 0.33 | 46.3 |
| 4/24/2015 8:17:58 | 45.60 | 42.40 | 850 | 0.37 | 0.33 | 46.5 |
| 4/24/2015 8:17:59 | 45.93 | 42.73 | 825 | 0.36 | 0.33 | 45.1 |
| 4/24/2015 8:18:00 | 46.26 | 43.06 | 825 | 0.37 | 0.33 | 45.1 |
| 4/24/2015 8:18:00 | 46.59 | 43.39 | 825 | 0.37 | 0.33 | 45.1 |
| 4/24/2015 8:18:00 | 46.92 | 43.72 | 825 | 0.36 | 0.34 | 45.1 |
| 4/24/2015 8:18:01 | 47.24 | 44.04 | 825 | 0.37 | 0.33 | 45.1 |
| 4/24/2015 8:18:01 | 47.57 | 44.37 | 829 | 0.37 | 0.33 | 45.4 |
| 4/24/2015 8:18:02 | 47.90 | 44.70 | 829 | 0.37 | 0.33 | 45.4 |
| 4/24/2015 8:18:02 | 48.23 | 45.03 | 829 | 0.37 | 0.33 | 45.4 |
| 4/24/2015 8:18:02 | 48.56 | 45.36 | 833 | 0.36 | 0.33 | 45.6 |
| 4/24/2015 8:18:37 | 48.88 | 45.68 | 0 | 3.88 | 0.38 | 0.0 |
| 4/24/2015 8:18:46 | 49.21 | 46.01 | 3 | 3.17 | 0.39 | 0.2 |
| 4/24/2015 8:19:01 | 49.54 | 46.34 | 70 | 3.58 | 0.37 | 3.8 |
| 4/24/2015 8:19:01 | 49.87 | 46.67 | 140 | 3.87 | 0.37 | 7.7 |
| 4/24/2015 8:19:08 | 50.20 | 47.00 | 0 | 2.99 | 0.37 | 0.0 |
| 4/24/2015 8:19:13 | 50.53 | 47.33 | 40 | 6.26 | 0.39 | 2.2 |
| 4/24/2015 8:19:14 | 50.85 | 47.65 | 109 | 3.38 | 0.37 | 6.0 |
| 4/24/2015 8:19:15 | 51.18 | 47.98 | 265 | 3.13 | 0.37 | 14.5 |
| 4/24/2015 8:19:30 | 51.51 | 48.31 | 26 | 3.73 | 0.38 | 1.4 |
| 4/24/2015 8:19:32 | 51.84 | 48.64 | 62 | 5.08 | 0.39 | 3.4 |
| 4/24/2015 8:19:33 | 52.17 | 48.97 | 201 | 2.95 | 0.36 | 11.0 |
| 4/24/2015 8:19:33 | 52.49 | 49.29 | 301 | 2.78 | 0.35 | 16.5 |
| 4/24/2015 8:19:34 | 52.82 | 49.62 | 390 | 3.05 | 0.36 | 21.3 |
| 4/24/2015 8:19:35 | 53.15 | 49.95 | 487 | 3.42 | 0.36 | 26.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:19:36 | 53.48 | 50.28 | 492 | 2.93 | 0.36 | 26.9 |
| 4/24/2015 | 8:20:08 | 53.81 | 50.61 | 0 | 4.05 | 0.39 | 0.0 |
| 4/24/2015 | 8:20:23 | 54.13 | 50.93 | 61 | 4.10 | 0.40 | 3.3 |
| 4/24/2015 | 8:20:29 | 54.46 | 51.26 | 69 | 3.94 | 0.39 | 3.8 |
| 4/24/2015 | 8:20:31 | 54.79 | 51.59 | 108 | 6.54 | 0.39 | 5.9 |
| 4/24/2015 | 8:20:33 | 55.12 | 51.92 | 161 | 4.29 | 0.38 | 8.8 |
| 4/24/2015 | 8:20:34 | 55.45 | 52.25 | 206 | 3.54 | 0.36 | 11.2 |
| 4/24/2015 | 8:20:35 | 55.77 | 52.57 | 255 | 2.88 | 0.37 | 14.0 |
| 4/24/2015 | 8:20:38 | 56.10 | 52.90 | 247 | 3.71 | 0.37 | 13.5 |
| 4/24/2015 | 8:20:39 | 56.43 | 53.23 | 151 | 3.58 | 0.37 | 8.3 |
| 4/24/2015 | 8:20:40 | 56.76 | 53.56 | 187 | 3.85 | 0.38 | 10.3 |
| 4/24/2015 | 8:20:42 | 57.09 | 53.89 | 237 | 4.09 | 0.39 | 12.9 |
| 4/24/2015 | 8:20:47 | 57.41 | 54.21 | 74 | 3.96 | 0.40 | 4.1 |
| 4/24/2015 | 8:20:54 | 57.74 | 54.54 | 49 | 3.75 | 0.39 | 2.7 |
| 4/24/2015 | 8:21:03 | 58.07 | 54.87 | 46 | 3.83 | 0.40 | 2.5 |
| 4/24/2015 | 8:21:09 | 58.30 | 55.10 | 42 | 3.64 | 0.40 | 2.3 |

## H287 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:15:30

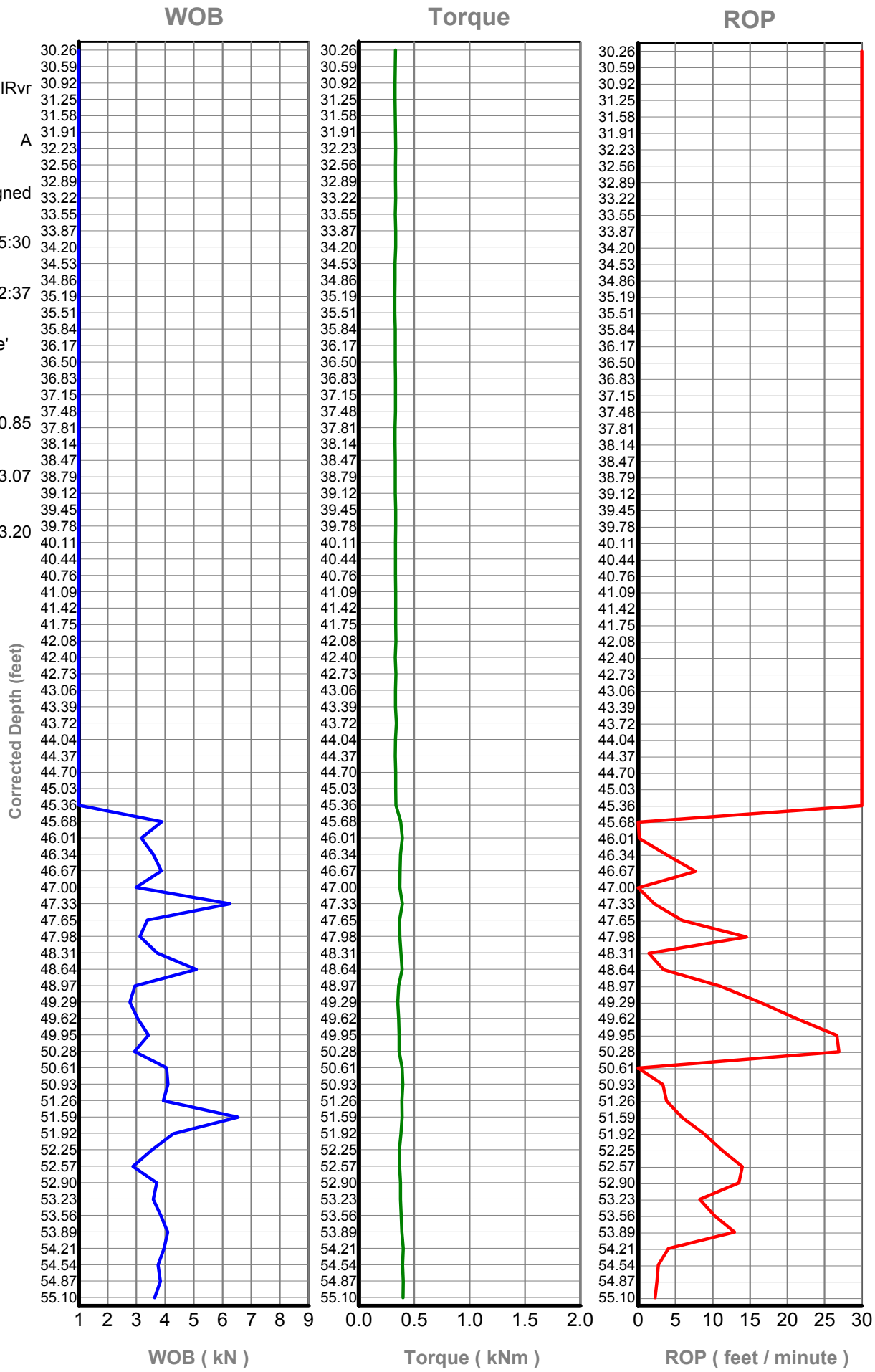
**End Date:**
4/24/2015 8:22:37

**Operator Note:**
'3.2 3.4 b Auto Complete'

**Northing:**
366,850.85

**Easting:**
251,263.07

**Tide (feet):**
3.20



## Hole: H288 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:19:26 | 33.46 | 30.26 | 576 | 2.00 | 0.34 | 31.5 |
| 4/24/2015 8:19:27 | 33.79 | 30.59 | 586 | 1.99 | 0.34 | 32.0 |
| 4/24/2015 8:19:27 | 34.12 | 30.92 | 572 | 2.00 | 0.33 | 31.3 |
| 4/24/2015 8:19:28 | 34.45 | 31.25 | 572 | 1.98 | 0.33 | 31.3 |
| 4/24/2015 8:19:29 | 34.78 | 31.58 | 592 | 1.99 | 0.33 | 32.4 |
| 4/24/2015 8:19:29 | 35.11 | 31.91 | 583 | 1.95 | 0.34 | 31.9 |
| 4/24/2015 8:19:30 | 35.43 | 32.23 | 583 | 1.96 | 0.33 | 31.9 |
| 4/24/2015 8:19:31 | 35.76 | 32.56 | 575 | 1.98 | 0.33 | 31.5 |
| 4/24/2015 8:19:31 | 36.09 | 32.89 | 588 | 1.98 | 0.33 | 32.2 |
| 4/24/2015 8:19:32 | 36.42 | 33.22 | 577 | 1.99 | 0.33 | 31.5 |
| 4/24/2015 8:19:32 | 36.75 | 33.55 | 586 | 2.00 | 0.33 | 32.1 |
| 4/24/2015 8:19:33 | 37.07 | 33.87 | 587 | 2.00 | 0.33 | 32.1 |
| 4/24/2015 8:19:34 | 37.40 | 34.20 | 590 | 2.01 | 0.33 | 32.3 |
| 4/24/2015 8:19:34 | 37.73 | 34.53 | 577 | 1.98 | 0.33 | 31.6 |
| 4/24/2015 8:19:35 | 38.06 | 34.86 | 581 | 1.99 | 0.33 | 31.8 |
| 4/24/2015 8:19:35 | 38.39 | 35.19 | 581 | 1.98 | 0.33 | 31.8 |
| 4/24/2015 8:19:36 | 38.71 | 35.51 | 579 | 1.98 | 0.33 | 31.7 |
| 4/24/2015 8:19:36 | 39.04 | 35.84 | 579 | 1.96 | 0.33 | 31.7 |
| 4/24/2015 8:19:37 | 39.37 | 36.17 | 581 | 2.00 | 0.33 | 31.8 |
| 4/24/2015 8:19:38 | 39.70 | 36.50 | 586 | 1.98 | 0.33 | 32.1 |
| 4/24/2015 8:19:39 | 40.03 | 36.83 | 593 | 1.98 | 0.33 | 32.4 |
| 4/24/2015 8:19:39 | 40.35 | 37.15 | 580 | 1.99 | 0.33 | 31.7 |
| 4/24/2015 8:19:40 | 40.68 | 37.48 | 580 | 1.99 | 0.33 | 31.7 |
| 4/24/2015 8:19:40 | 41.01 | 37.81 | 580 | 1.98 | 0.33 | 31.7 |
| 4/24/2015 8:19:41 | 41.34 | 38.14 | 586 | 1.99 | 0.33 | 32.1 |
| 4/24/2015 8:19:42 | 41.67 | 38.47 | 567 | 1.98 | 0.33 | 31.0 |
| 4/24/2015 8:19:42 | 41.99 | 38.79 | 567 | 2.00 | 0.33 | 31.0 |
| 4/24/2015 8:19:43 | 42.32 | 39.12 | 575 | 1.99 | 0.33 | 31.4 |
| 4/24/2015 8:19:43 | 42.65 | 39.45 | 588 | 1.98 | 0.33 | 32.1 |
| 4/24/2015 8:19:44 | 42.98 | 39.78 | 583 | 1.98 | 0.33 | 31.9 |
| 4/24/2015 8:19:45 | 43.31 | 40.11 | 592 | 2.00 | 0.33 | 32.4 |
| 4/24/2015 8:19:45 | 43.64 | 40.44 | 587 | 1.98 | 0.33 | 32.1 |
| 4/24/2015 8:19:46 | 43.96 | 40.76 | 581 | 1.96 | 0.33 | 31.7 |
| 4/24/2015 8:19:46 | 44.29 | 41.09 | 584 | 1.99 | 0.33 | 32.0 |
| 4/24/2015 8:19:47 | 44.62 | 41.42 | 581 | 2.00 | 0.33 | 31.8 |
| 4/24/2015 8:19:48 | 44.95 | 41.75 | 581 | 1.96 | 0.33 | 31.8 |
| 4/24/2015 8:19:48 | 45.28 | 42.08 | 581 | 2.00 | 0.33 | 31.8 |
| 4/24/2015 8:19:49 | 45.60 | 42.40 | 584 | 2.01 | 0.33 | 32.0 |
| 4/24/2015 8:19:50 | 45.93 | 42.73 | 575 | 1.99 | 0.33 | 31.4 |
| 4/24/2015 8:19:50 | 46.26 | 43.06 | 574 | 2.00 | 0.33 | 31.4 |
| 4/24/2015 8:19:51 | 46.59 | 43.39 | 565 | 2.00 | 0.33 | 30.9 |
| 4/24/2015 8:19:52 | 46.92 | 43.72 | 575 | 1.97 | 0.33 | 31.4 |
| 4/24/2015 8:19:52 | 47.24 | 44.04 | 579 | 2.00 | 0.33 | 31.7 |
| 4/24/2015 8:20:29 | 47.57 | 44.37 | 10 | 1.99 | 1.08 | 0.6 |
| 4/24/2015 8:20:30 | 47.90 | 44.70 | 79 | 1.98 | 1.13 | 4.3 |
| 4/24/2015 8:20:31 | 48.23 | 45.03 | 252 | 2.00 | 1.07 | 13.8 |
| 4/24/2015 8:20:32 | 48.56 | 45.36 | 340 | 1.95 | 1.24 | 18.6 |
| 4/24/2015 8:20:34 | 48.88 | 45.68 | 298 | 1.98 | 1.15 | 16.3 |
| 4/24/2015 8:20:35 | 49.21 | 46.01 | 247 | 1.98 | 1.14 | 13.5 |
| 4/24/2015 8:20:43 | 49.54 | 46.34 | 43 | 1.99 | 1.26 | 2.3 |
| 4/24/2015 8:20:44 | 49.87 | 46.67 | 164 | 2.00 | 1.13 | 9.0 |
| 4/24/2015 8:20:45 | 50.20 | 47.00 | 275 | 2.00 | 1.23 | 15.1 |
| 4/24/2015 8:20:46 | 50.53 | 47.33 | 289 | 1.98 | 1.11 | 15.8 |
| 4/24/2015 8:20:48 | 50.85 | 47.65 | 292 | 2.00 | 1.19 | 16.0 |
| 4/24/2015 8:20:49 | 51.18 | 47.98 | 295 | 1.99 | 1.16 | 16.1 |
| 4/24/2015 8:21:19 | 51.51 | 48.31 | 0 | 1.98 | 1.29 | 0.0 |
| 4/24/2015 8:21:21 | 51.84 | 48.64 | 152 | 1.98 | 1.43 | 8.3 |
| 4/24/2015 8:21:23 | 52.17 | 48.97 | 131 | 1.99 | 1.19 | 7.2 |
| 4/24/2015 8:21:25 | 52.49 | 49.29 | 205 | 2.00 | 1.12 | 11.2 |
| 4/24/2015 8:21:26 | 52.82 | 49.62 | 297 | 2.02 | 1.17 | 16.2 |
| 4/24/2015 8:21:27 | 53.15 | 49.95 | 293 | 1.97 | 1.24 | 16.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:21:28 | 53.48 | 50.28 | 291 | 2.02 | 1.29 | 15.9 |
| 4/24/2015 | 8:21:29 | 53.81 | 50.61 | 283 | 1.98 | 1.22 | 15.5 |
| 4/24/2015 | 8:21:33 | 54.13 | 50.93 | 84 | 1.99 | 1.23 | 4.6 |
| 4/24/2015 | 8:21:36 | 54.46 | 51.26 | 153 | 1.99 | 1.14 | 8.4 |
| 4/24/2015 | 8:21:42 | 54.79 | 51.59 | 52 | 2.02 | 1.18 | 2.8 |
| 4/24/2015 | 8:22:29 | 55.12 | 51.92 | 15 | 2.00 | 1.21 | 0.8 |
| 4/24/2015 | 8:22:38 | 55.45 | 52.25 | 38 | 2.01 | 1.25 | 2.1 |
| 4/24/2015 | 8:22:47 | 55.77 | 52.57 | 40 | 2.00 | 1.17 | 2.2 |
| 4/24/2015 | 8:22:56 | 56.10 | 52.90 | 38 | 2.02 | 1.20 | 2.1 |
| 4/24/2015 | 8:23:06 | 56.43 | 53.23 | 38 | 2.01 | 1.15 | 2.1 |
| 4/24/2015 | 8:23:16 | 56.76 | 53.56 | 33 | 2.01 | 1.26 | 1.8 |
| 4/24/2015 | 8:23:19 | 56.82 | 53.62 | 29 | 2.00 | 1.24 | 1.6 |

## H288 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:17:44

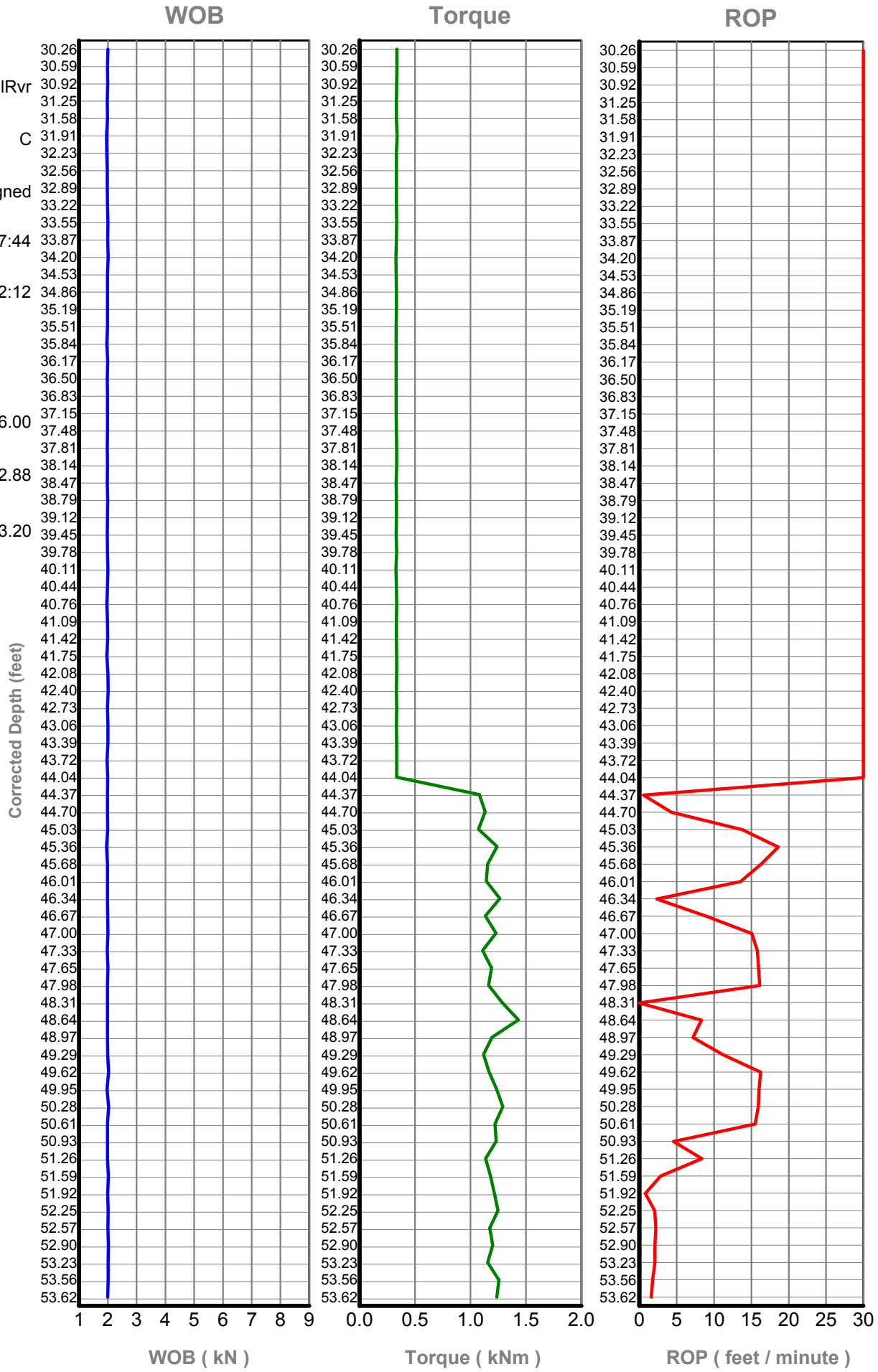
**End Date:**
4/24/2015 8:32:12

**Operator Note:**
'3.2 3.3 C Auto Complete'

**Northing:**
366,896.00

**Easting:**
251,322.88

**Tide (feet):**
3.20



## Hole: H289 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 2:03:29 | 31.82 | 30.02 | 868 | 0.54 | 0.35 | 47.4 |
| 4/24/2015 2:03:29 | 32.15 | 30.35 | 868 | 0.54 | 0.35 | 47.4 |
| 4/24/2015 2:03:29 | 32.48 | 30.68 | 838 | 0.54 | 0.34 | 45.8 |
| 4/24/2015 2:03:30 | 32.81 | 31.01 | 815 | 0.54 | 0.34 | 44.6 |
| 4/24/2015 2:03:30 | 33.14 | 31.34 | 806 | 0.54 | 0.34 | 44.1 |
| 4/24/2015 2:03:31 | 33.46 | 31.66 | 778 | 0.39 | 0.30 | 42.5 |
| 4/24/2015 2:03:31 | 33.79 | 31.99 | 772 | 0.35 | 0.32 | 42.2 |
| 4/24/2015 2:03:32 | 34.12 | 32.32 | 792 | 0.53 | 0.35 | 43.3 |
| 4/24/2015 2:03:32 | 34.45 | 32.65 | 792 | 0.53 | 0.35 | 43.3 |
| 4/24/2015 2:03:32 | 34.78 | 32.98 | 810 | 0.39 | 0.34 | 44.3 |
| 4/24/2015 2:03:33 | 35.11 | 33.31 | 818 | 0.52 | 0.34 | 44.8 |
| 4/24/2015 2:03:33 | 35.43 | 33.63 | 830 | 0.35 | 0.32 | 45.4 |
| 4/24/2015 2:03:34 | 35.76 | 33.96 | 838 | 0.35 | 0.32 | 45.8 |
| 4/24/2015 2:03:34 | 36.09 | 34.29 | 844 | 0.35 | 0.41 | 46.2 |
| 4/24/2015 2:03:40 | 36.42 | 34.62 | 0 | 0.33 | 0.32 | 0.0 |
| 4/24/2015 2:03:40 | 36.75 | 34.95 | 70 | 0.35 | 0.32 | 3.8 |
| 4/24/2015 2:03:41 | 37.07 | 35.27 | 70 | 0.35 | 0.32 | 3.8 |
| 4/24/2015 2:03:41 | 37.40 | 35.60 | 241 | 0.35 | 0.32 | 13.2 |
| 4/24/2015 2:03:41 | 37.73 | 35.93 | 415 | 0.35 | 0.32 | 22.7 |
| 4/24/2015 2:03:42 | 38.06 | 36.26 | 586 | 0.35 | 0.32 | 32.1 |
| 4/24/2015 2:03:42 | 38.39 | 36.59 | 758 | 0.35 | 0.32 | 41.4 |
| 4/24/2015 2:03:43 | 38.71 | 36.91 | 758 | 0.35 | 0.32 | 41.4 |
| 4/24/2015 2:03:43 | 39.04 | 37.24 | 867 | 0.34 | 0.32 | 47.4 |
| 4/24/2015 2:03:43 | 39.37 | 37.57 | 870 | 0.34 | 0.30 | 47.6 |
| 4/24/2015 2:03:44 | 39.70 | 37.90 | 876 | 0.34 | 0.32 | 47.9 |
| 4/24/2015 2:03:44 | 40.03 | 38.23 | 876 | 0.34 | 0.32 | 47.9 |
| 4/24/2015 2:03:44 | 40.35 | 38.55 | 876 | 0.34 | 0.32 | 47.9 |
| 4/24/2015 2:03:45 | 40.68 | 38.88 | 885 | 0.34 | 0.32 | 48.4 |
| 4/24/2015 2:03:46 | 41.01 | 39.21 | 882 | 0.34 | 0.32 | 48.2 |
| 4/24/2015 2:03:46 | 41.34 | 39.54 | 879 | 0.34 | 0.32 | 48.1 |
| 4/24/2015 2:03:47 | 41.67 | 39.87 | 879 | 0.34 | 0.32 | 48.1 |
| 4/24/2015 2:03:47 | 41.99 | 40.19 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 2:03:47 | 42.32 | 40.52 | 876 | 0.35 | 0.32 | 47.9 |
| 4/24/2015 2:03:48 | 42.65 | 40.85 | 867 | 0.35 | 0.32 | 47.4 |
| 4/24/2015 2:03:48 | 42.98 | 41.18 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 2:03:49 | 43.31 | 41.51 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 2:03:49 | 43.64 | 41.84 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 2:03:49 | 43.96 | 42.16 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 2:03:50 | 44.29 | 42.49 | 876 | 0.33 | 0.32 | 47.9 |
| 4/24/2015 2:03:50 | 44.62 | 42.82 | 876 | 0.33 | 0.32 | 47.9 |
| 4/24/2015 2:03:50 | 44.95 | 43.15 | 879 | 0.36 | 0.32 | 48.1 |
| 4/24/2015 2:03:51 | 45.28 | 43.48 | 871 | 0.34 | 0.32 | 47.6 |
| 4/24/2015 2:03:51 | 45.60 | 43.80 | 882 | 0.34 | 0.32 | 48.2 |
| 4/24/2015 2:03:52 | 45.93 | 44.13 | 879 | 0.34 | 0.32 | 48.1 |
| 4/24/2015 2:03:52 | 46.26 | 44.46 | 879 | 0.34 | 0.32 | 48.1 |
| 4/24/2015 2:03:52 | 46.59 | 44.79 | 863 | 0.34 | 0.32 | 47.2 |
| 4/24/2015 2:03:53 | 46.92 | 45.12 | 868 | 0.34 | 0.32 | 47.5 |
| 4/24/2015 2:03:53 | 47.24 | 45.44 | 874 | 0.34 | 0.31 | 47.8 |
| 4/24/2015 2:03:54 | 47.57 | 45.77 | 865 | 0.33 | 0.36 | 47.3 |
| 4/24/2015 2:03:58 | 47.90 | 46.10 | 3 | 0.32 | 0.39 | 0.2 |
| 4/24/2015 2:04:30 | 48.23 | 46.43 | 0 | 3.30 | 0.35 | 0.0 |
| 4/24/2015 2:04:37 | 48.56 | 46.76 | 32 | 3.31 | 0.36 | 1.7 |
| 4/24/2015 2:04:38 | 48.88 | 47.08 | 73 | 3.26 | 0.35 | 4.0 |
| 4/24/2015 2:04:46 | 49.21 | 47.41 | 0 | 4.56 | 0.39 | 0.0 |
| 4/24/2015 2:04:56 | 49.54 | 47.74 | 38 | 3.64 | 0.37 | 2.1 |
| 4/24/2015 2:04:57 | 49.87 | 48.07 | 172 | 3.35 | 0.36 | 9.4 |
| 4/24/2015 2:04:59 | 50.20 | 48.40 | 312 | 3.61 | 0.36 | 17.1 |
| 4/24/2015 2:05:00 | 50.53 | 48.73 | 367 | 2.95 | 0.36 | 20.1 |
| 4/24/2015 2:05:01 | 50.85 | 49.05 | 305 | 5.19 | 0.37 | 16.7 |
| 4/24/2015 2:05:04 | 51.18 | 49.38 | 150 | 6.15 | 0.40 | 8.2 |
| 4/24/2015 2:05:06 | 51.51 | 49.71 | 136 | 4.15 | 0.38 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 2:05:23 | 51.84 | 50.04 | 9 | 4.05 | 0.36 | 0.5 |
| 4/24/2015 | 2:05:24 | 52.17 | 50.37 | 104 | 4.49 | 0.37 | 5.7 |
| 4/24/2015 | 2:05:25 | 52.49 | 50.69 | 223 | 4.29 | 0.37 | 12.2 |
| 4/24/2015 | 2:05:26 | 52.82 | 51.02 | 291 | 3.58 | 0.37 | 15.9 |
| 4/24/2015 | 2:05:27 | 53.15 | 51.35 | 292 | 6.60 | 0.36 | 16.0 |
| 4/24/2015 | 2:05:29 | 53.48 | 51.68 | 288 | 3.52 | 0.37 | 15.7 |
| 4/24/2015 | 2:05:30 | 53.81 | 52.01 | 304 | 3.52 | 0.37 | 16.6 |
| 4/24/2015 | 2:05:31 | 54.13 | 52.33 | 306 | 4.02 | 0.38 | 16.7 |
| 4/24/2015 | 2:05:33 | 54.46 | 52.66 | 282 | 4.13 | 0.37 | 15.4 |
| 4/24/2015 | 2:05:33 | 54.79 | 52.99 | 274 | 3.12 | 0.35 | 15.0 |
| 4/24/2015 | 2:05:34 | 55.12 | 53.32 | 313 | 3.70 | 0.36 | 17.1 |
| 4/24/2015 | 2:05:35 | 55.45 | 53.65 | 378 | 3.38 | 0.36 | 20.7 |
| 4/24/2015 | 2:05:36 | 55.77 | 53.97 | 398 | 4.01 | 0.36 | 21.8 |
| 4/24/2015 | 2:05:36 | 56.10 | 54.30 | 445 | 2.76 | 0.35 | 24.3 |
| 4/24/2015 | 2:05:37 | 56.43 | 54.63 | 490 | 2.68 | 0.35 | 26.8 |
| 4/24/2015 | 2:05:38 | 56.76 | 54.96 | 518 | 3.19 | 0.35 | 28.3 |
| 4/24/2015 | 2:05:38 | 56.85 | 55.05 | 518 | 3.19 | 0.35 | 28.3 |

## H289 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/24/2015 2:02:01

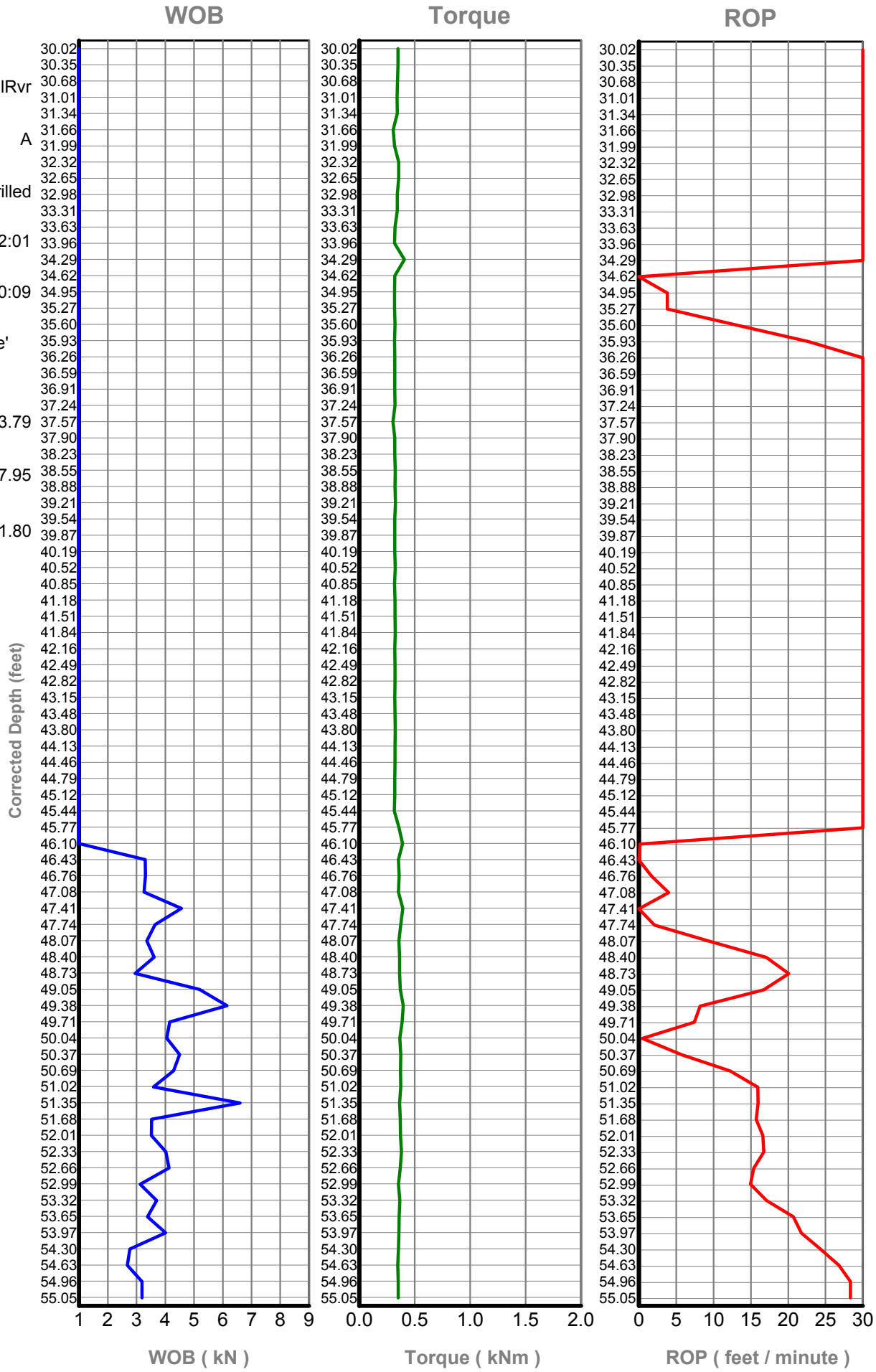
**End Date:**
4/24/2015 2:10:09

**Operator Note:**
'1.8 1.5 b Auto Complete'

**Northing:**
366,933.79

**Easting:**
251,377.95

**Tide (feet):**
1.80



## Hole: H29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 10:21:13 | 33.14 | 30.14 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/25/2015 10:21:13 | 33.46 | 30.46 | 1,003 | 0.33 | 0.31 | 54.9 |
| 4/25/2015 10:21:14 | 33.79 | 30.79 | 1,012 | 0.33 | 0.31 | 55.3 |
| 4/25/2015 10:21:14 | 34.12 | 31.12 | 1,012 | 0.33 | 0.31 | 55.3 |
| 4/25/2015 10:21:14 | 34.45 | 31.45 | 1,001 | 0.33 | 0.31 | 54.7 |
| 4/25/2015 10:21:15 | 34.78 | 31.78 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/25/2015 10:21:15 | 35.11 | 32.11 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/25/2015 10:21:15 | 35.43 | 32.43 | 1,004 | 0.33 | 0.31 | 54.9 |
| 4/25/2015 10:21:16 | 35.76 | 32.76 | 998 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 10:21:16 | 36.09 | 33.09 | 998 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 10:21:17 | 36.42 | 33.42 | 998 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 10:21:17 | 36.75 | 33.75 | 993 | 0.33 | 0.31 | 54.3 |
| 4/25/2015 10:21:17 | 37.07 | 34.07 | 993 | 0.33 | 0.31 | 54.3 |
| 4/25/2015 10:21:17 | 37.40 | 34.40 | 999 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 10:21:18 | 37.73 | 34.73 | 993 | 0.33 | 0.31 | 54.3 |
| 4/25/2015 10:21:18 | 38.06 | 35.06 | 981 | 0.33 | 0.31 | 53.7 |
| 4/25/2015 10:21:19 | 38.39 | 35.39 | 981 | 0.33 | 0.31 | 53.7 |
| 4/25/2015 10:21:19 | 38.71 | 35.71 | 990 | 0.33 | 0.31 | 54.1 |
| 4/25/2015 10:21:19 | 39.04 | 36.04 | 995 | 0.31 | 0.35 | 54.4 |
| 4/25/2015 10:21:23 | 39.37 | 36.37 | 83 | 3.35 | 0.35 | 4.5 |
| 4/25/2015 10:21:23 | 39.70 | 36.70 | 183 | 3.07 | 0.38 | 10.0 |
| 4/25/2015 10:21:25 | 40.03 | 37.03 | 362 | 3.36 | 0.38 | 19.8 |
| 4/25/2015 10:21:27 | 40.35 | 37.35 | 225 | 3.42 | 0.37 | 12.3 |
| 4/25/2015 10:21:29 | 40.68 | 37.68 | 209 | 4.71 | 0.39 | 11.4 |
| 4/25/2015 10:21:31 | 41.01 | 38.01 | 165 | 3.91 | 0.38 | 9.0 |
| 4/25/2015 10:21:40 | 41.34 | 38.34 | 55 | 6.86 | 0.38 | 3.0 |
| 4/25/2015 10:22:09 | 41.67 | 38.67 | 66 | 3.86 | 0.39 | 3.6 |
| 4/25/2015 10:22:12 | 41.99 | 38.99 | 92 | 3.79 | 0.36 | 5.0 |
| 4/25/2015 10:22:15 | 42.32 | 39.32 | 0 | 2.02 | 0.33 | 0.0 |
| 4/25/2015 10:22:16 | 42.65 | 39.65 | 157 | 2.53 | 0.36 | 8.6 |
| 4/25/2015 10:22:18 | 42.98 | 39.98 | 351 | 2.67 | 0.37 | 19.2 |
| 4/25/2015 10:22:19 | 43.31 | 40.31 | 359 | 3.38 | 0.34 | 19.6 |
| 4/25/2015 10:22:23 | 43.64 | 40.64 | 0 | 4.14 | 0.38 | 0.0 |
| 4/25/2015 10:23:24 | 43.96 | 40.96 | 0 | 3.48 | 0.37 | 0.0 |
| 4/25/2015 10:23:26 | 44.29 | 41.29 | 131 | 3.72 | 0.38 | 7.2 |
| 4/25/2015 10:23:33 | 44.62 | 41.62 | 26 | 3.90 | 0.38 | 1.4 |
| 4/25/2015 10:23:34 | 44.95 | 41.95 | 118 | 2.73 | 0.36 | 6.5 |
| 4/25/2015 10:23:34 | 45.28 | 42.28 | 200 | 2.93 | 0.37 | 11.0 |
| 4/25/2015 10:23:41 | 45.60 | 42.60 | 65 | 2.86 | 0.36 | 3.5 |
| 4/25/2015 10:23:49 | 45.93 | 42.93 | 0 | 2.46 | 0.35 | 0.0 |
| 4/25/2015 10:23:49 | 46.26 | 43.26 | 58 | 2.52 | 0.36 | 3.2 |
| 4/25/2015 10:23:51 | 46.59 | 43.59 | 248 | 3.54 | 0.38 | 13.5 |
| 4/25/2015 10:23:53 | 46.92 | 43.92 | 200 | 4.22 | 0.40 | 10.9 |
| 4/25/2015 10:23:55 | 47.24 | 44.24 | 171 | 3.86 | 0.37 | 9.4 |
| 4/25/2015 10:23:56 | 47.57 | 44.57 | 247 | 3.21 | 0.36 | 13.5 |
| 4/25/2015 10:23:56 | 47.90 | 44.90 | 311 | 3.18 | 0.35 | 17.0 |
| 4/25/2015 10:23:57 | 48.23 | 45.23 | 431 | 2.42 | 0.36 | 23.6 |
| 4/25/2015 10:23:58 | 48.56 | 45.56 | 466 | 2.59 | 0.35 | 25.5 |
| 4/25/2015 10:24:01 | 48.88 | 45.88 | 100 | 2.71 | 0.37 | 5.5 |
| 4/25/2015 10:24:03 | 49.21 | 46.21 | 225 | 3.29 | 0.39 | 12.3 |
| 4/25/2015 10:24:07 | 49.54 | 46.54 | 75 | 4.05 | 0.39 | 4.1 |
| 4/25/2015 10:24:35 | 49.87 | 46.87 | 48 | 2.96 | 0.38 | 2.6 |
| 4/25/2015 10:24:36 | 50.20 | 47.20 | 117 | 2.45 | 0.35 | 6.4 |
| 4/25/2015 10:24:37 | 50.53 | 47.53 | 324 | 2.38 | 0.35 | 17.7 |
| 4/25/2015 10:24:37 | 50.85 | 47.85 | 396 | 2.27 | 0.35 | 21.6 |
| 4/25/2015 10:24:38 | 51.18 | 48.18 | 475 | 2.40 | 0.35 | 26.0 |
| 4/25/2015 10:24:38 | 51.51 | 48.51 | 570 | 2.35 | 0.35 | 31.1 |
| 4/25/2015 10:24:39 | 51.84 | 48.84 | 584 | 2.50 | 0.35 | 31.9 |
| 4/25/2015 10:24:41 | 52.17 | 49.17 | 347 | 2.63 | 0.35 | 19.0 |
| 4/25/2015 10:24:43 | 52.49 | 49.49 | 135 | 2.37 | 0.34 | 7.4 |
| 4/25/2015 10:24:44 | 52.82 | 49.82 | 177 | 2.50 | 0.35 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 10:24:45 | 53.15 | 50.15 | 280 | 2.90 | 0.36 | 15.3 |
| 4/25/2015 | 10:24:45 | 53.48 | 50.48 | 380 | 3.52 | 0.34 | 20.8 |
| 4/25/2015 | 10:24:48 | 53.81 | 50.81 | 92 | 4.00 | 0.36 | 5.0 |
| 4/25/2015 | 10:24:50 | 54.13 | 51.13 | 113 | 3.22 | 0.37 | 6.2 |
| 4/25/2015 | 10:24:51 | 54.46 | 51.46 | 217 | 3.13 | 0.37 | 11.9 |
| 4/25/2015 | 10:24:52 | 54.79 | 51.79 | 292 | 3.65 | 0.37 | 16.0 |
| 4/25/2015 | 10:24:53 | 55.12 | 52.12 | 294 | 4.07 | 0.37 | 16.1 |
| 4/25/2015 | 10:24:56 | 55.45 | 52.45 | 214 | 2.48 | 0.36 | 11.7 |
| 4/25/2015 | 10:24:56 | 55.77 | 52.77 | 245 | 3.12 | 0.36 | 13.4 |
| 4/25/2015 | 10:25:02 | 56.10 | 53.10 | 0 | 3.12 | 0.38 | 0.0 |
| 4/25/2015 | 10:25:08 | 56.43 | 53.43 | 73 | 3.07 | 0.39 | 4.0 |
| 4/25/2015 | 10:25:17 | 56.76 | 53.76 | 49 | 3.34 | 0.39 | 2.7 |
| 4/25/2015 | 10:25:25 | 57.09 | 54.09 | 55 | 2.95 | 0.39 | 3.0 |
| 4/25/2015 | 10:26:30 | 57.41 | 54.41 | 1 | 2.93 | 0.34 | 0.1 |
| 4/25/2015 | 10:28:02 | 57.63 | 54.63 | 37 | 3.35 | 0.39 | 2.0 |

## H29 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 10:18:34

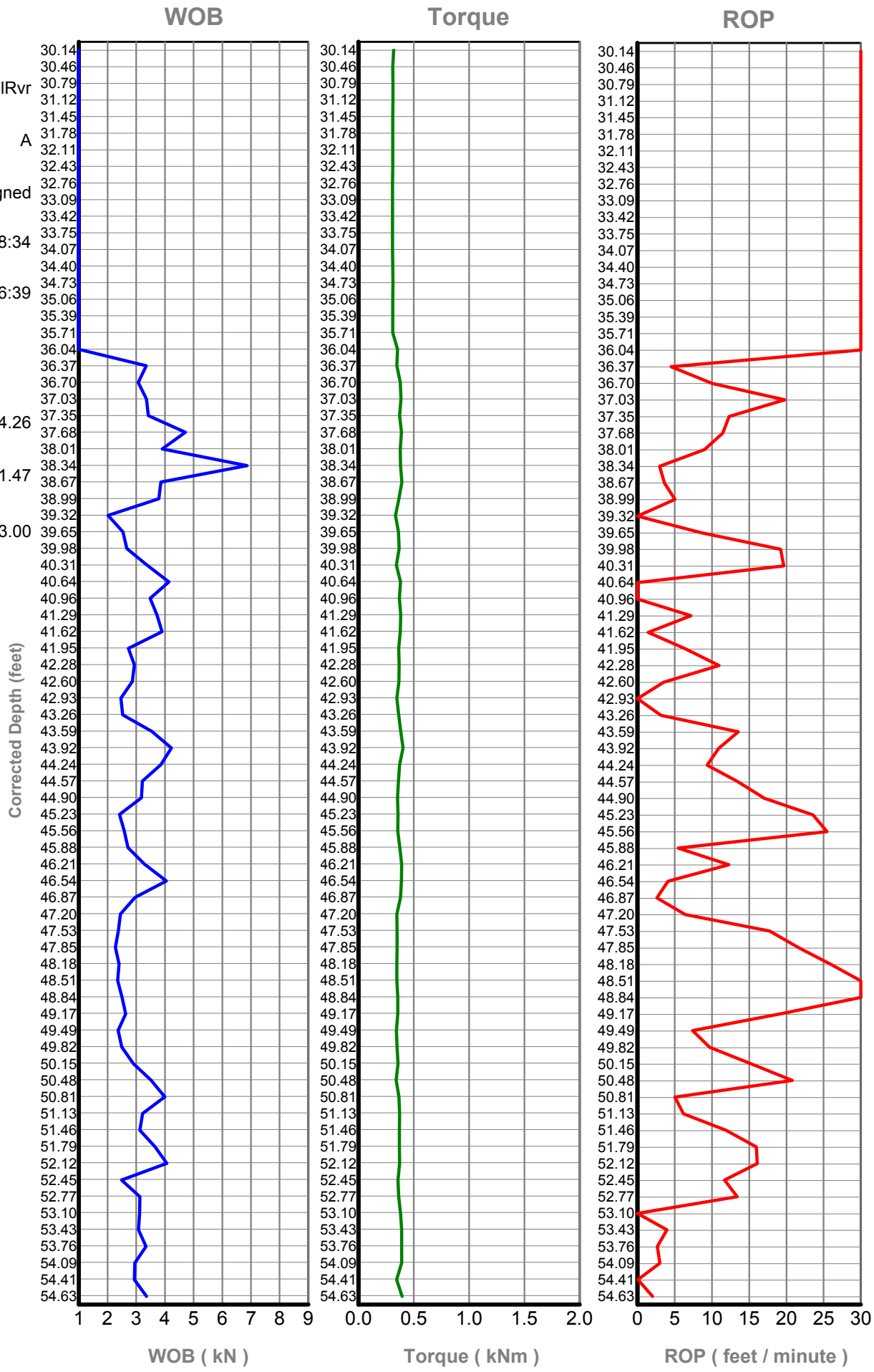
**End Date:**
4/25/2015 10:36:39

**Operator Note:**
'3 3.1 b Auto Complete'

**Northing:**
366,914.26

**Easting:**
250,631.47

**Tide (feet):**
3.00



## Hole: H290 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:51:21 | 31.50 | 30.20 | 892 | 0.20 | 0.32 | 48.8 |
| 4/24/2015 1:51:22 | 31.82 | 30.52 | 920 | 0.20 | 0.32 | 50.3 |
| 4/24/2015 1:51:22 | 32.15 | 30.85 | 920 | 0.20 | 0.32 | 50.3 |
| 4/24/2015 1:51:22 | 32.48 | 31.18 | 899 | 0.20 | 0.32 | 49.2 |
| 4/24/2015 1:51:23 | 32.81 | 31.51 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 1:51:23 | 33.14 | 31.84 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:24 | 33.46 | 32.16 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:24 | 33.79 | 32.49 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:24 | 34.12 | 32.82 | 919 | 0.20 | 0.32 | 50.3 |
| 4/24/2015 1:51:25 | 34.45 | 33.15 | 916 | 0.20 | 0.31 | 50.1 |
| 4/24/2015 1:51:25 | 34.78 | 33.48 | 916 | 0.20 | 0.31 | 50.1 |
| 4/24/2015 1:51:25 | 35.11 | 33.81 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:26 | 35.43 | 34.13 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:27 | 35.76 | 34.46 | 911 | 0.19 | 0.32 | 49.8 |
| 4/24/2015 1:51:27 | 36.09 | 34.79 | 911 | 0.19 | 0.32 | 49.8 |
| 4/24/2015 1:51:27 | 36.42 | 35.12 | 900 | 0.20 | 0.32 | 49.2 |
| 4/24/2015 1:51:28 | 36.75 | 35.45 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 1:51:28 | 37.07 | 35.77 | 899 | 0.18 | 0.32 | 49.2 |
| 4/24/2015 1:51:29 | 37.40 | 36.10 | 899 | 0.18 | 0.32 | 49.2 |
| 4/24/2015 1:51:29 | 37.73 | 36.43 | 896 | 0.20 | 0.31 | 49.0 |
| 4/24/2015 1:51:29 | 38.06 | 36.76 | 902 | 0.20 | 0.32 | 49.3 |
| 4/24/2015 1:51:30 | 38.39 | 37.09 | 910 | 0.20 | 0.31 | 49.8 |
| 4/24/2015 1:51:30 | 38.71 | 37.41 | 910 | 0.20 | 0.31 | 49.8 |
| 4/24/2015 1:51:30 | 39.04 | 37.74 | 893 | 0.20 | 0.32 | 48.8 |
| 4/24/2015 1:51:31 | 39.37 | 38.07 | 893 | 0.19 | 0.32 | 48.8 |
| 4/24/2015 1:51:31 | 39.70 | 38.40 | 908 | 0.19 | 0.32 | 49.7 |
| 4/24/2015 1:51:32 | 40.03 | 38.73 | 908 | 0.19 | 0.32 | 49.7 |
| 4/24/2015 1:51:32 | 40.35 | 39.05 | 918 | 0.19 | 0.31 | 50.2 |
| 4/24/2015 1:51:32 | 40.68 | 39.38 | 918 | 0.20 | 0.32 | 50.2 |
| 4/24/2015 1:51:33 | 41.01 | 39.71 | 914 | 0.19 | 0.32 | 50.0 |
| 4/24/2015 1:51:33 | 41.34 | 40.04 | 914 | 0.19 | 0.32 | 50.0 |
| 4/24/2015 1:51:33 | 41.67 | 40.37 | 924 | 0.20 | 0.31 | 50.5 |
| 4/24/2015 1:51:34 | 41.99 | 40.69 | 916 | 0.19 | 0.32 | 50.1 |
| 4/24/2015 1:51:34 | 42.32 | 41.02 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 1:51:35 | 42.65 | 41.35 | 905 | 0.20 | 0.32 | 49.5 |
| 4/24/2015 1:51:35 | 42.98 | 41.68 | 905 | 0.22 | 0.31 | 49.5 |
| 4/24/2015 1:51:35 | 43.31 | 42.01 | 908 | 0.20 | 0.32 | 49.6 |
| 4/24/2015 1:51:36 | 43.64 | 42.34 | 913 | 0.20 | 0.31 | 49.9 |
| 4/24/2015 1:51:37 | 43.96 | 42.66 | 913 | 0.20 | 0.31 | 49.9 |
| 4/24/2015 1:51:37 | 44.29 | 42.99 | 908 | 0.20 | 0.32 | 49.6 |
| 4/24/2015 1:51:37 | 44.62 | 43.32 | 916 | 0.20 | 0.32 | 50.1 |
| 4/24/2015 1:51:38 | 44.95 | 43.65 | 902 | 0.20 | 0.32 | 49.3 |
| 4/24/2015 1:51:38 | 45.28 | 43.98 | 902 | 0.20 | 0.32 | 49.3 |
| 4/24/2015 1:51:38 | 45.60 | 44.30 | 902 | 0.20 | 0.32 | 49.3 |
| 4/24/2015 1:51:39 | 45.93 | 44.63 | 903 | 0.21 | 0.32 | 49.4 |
| 4/24/2015 1:51:39 | 46.26 | 44.96 | 892 | 0.19 | 0.25 | 48.8 |
| 4/24/2015 1:51:40 | 46.59 | 45.29 | 889 | 0.18 | 0.36 | 48.6 |
| 4/24/2015 1:52:01 | 46.92 | 45.62 | 0 | 3.39 | 0.34 | 0.0 |
| 4/24/2015 1:52:02 | 47.24 | 45.94 | 136 | 4.28 | 0.38 | 7.4 |
| 4/24/2015 1:52:07 | 47.57 | 46.27 | 69 | 3.75 | 0.38 | 3.8 |
| 4/24/2015 1:52:15 | 47.90 | 46.60 | 26 | 3.52 | 0.39 | 1.4 |
| 4/24/2015 1:52:17 | 48.23 | 46.93 | 121 | 4.28 | 0.40 | 6.6 |
| 4/24/2015 1:52:20 | 48.56 | 47.26 | 148 | 4.28 | 0.39 | 8.1 |
| 4/24/2015 1:52:30 | 48.88 | 47.58 | 41 | 8.11 | 0.39 | 2.3 |
| 4/24/2015 1:52:32 | 49.21 | 47.91 | 162 | 3.32 | 0.37 | 8.8 |
| 4/24/2015 1:52:34 | 49.54 | 48.24 | 234 | 4.70 | 0.38 | 12.8 |
| 4/24/2015 1:52:35 | 49.87 | 48.57 | 156 | 3.51 | 0.38 | 8.5 |
| 4/24/2015 1:52:42 | 50.20 | 48.90 | 0 | 4.26 | 0.38 | 0.0 |
| 4/24/2015 1:52:48 | 50.53 | 49.23 | 35 | 3.23 | 0.36 | 1.9 |
| 4/24/2015 1:52:49 | 50.85 | 49.55 | 212 | 4.21 | 0.38 | 11.6 |
| 4/24/2015 1:52:52 | 51.18 | 49.88 | 159 | 3.24 | 0.38 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:52:56 | 51.51 | 50.21 | 79 | 4.53 | 0.37 | 4.3 |
| 4/24/2015 | 1:52:56 | 51.84 | 50.54 | 162 | 3.07 | 0.36 | 8.8 |
| 4/24/2015 | 1:52:57 | 52.17 | 50.87 | 321 | 4.07 | 0.36 | 17.6 |
| 4/24/2015 | 1:52:58 | 52.49 | 51.19 | 410 | 3.35 | 0.36 | 22.4 |
| 4/24/2015 | 1:52:59 | 52.82 | 51.52 | 376 | 3.52 | 0.37 | 20.6 |
| 4/24/2015 | 1:53:01 | 53.15 | 51.85 | 330 | 8.19 | 0.37 | 18.0 |
| 4/24/2015 | 1:53:40 | 53.48 | 52.18 | 0 | 3.73 | 0.37 | 0.0 |
| 4/24/2015 | 1:53:40 | 53.81 | 52.51 | 0 | 2.74 | 0.35 | 0.0 |
| 4/24/2015 | 1:53:42 | 54.13 | 52.83 | 199 | 3.04 | 0.36 | 10.9 |
| 4/24/2015 | 1:53:42 | 54.46 | 53.16 | 291 | 3.80 | 0.36 | 15.9 |
| 4/24/2015 | 1:53:43 | 54.79 | 53.49 | 450 | 3.58 | 0.37 | 24.6 |
| 4/24/2015 | 1:53:44 | 55.12 | 53.82 | 393 | 4.37 | 0.37 | 21.5 |
| 4/24/2015 | 1:53:45 | 55.45 | 54.15 | 376 | 2.68 | 0.36 | 20.5 |
| 4/24/2015 | 1:53:46 | 55.77 | 54.47 | 390 | 2.75 | 0.35 | 21.3 |
| 4/24/2015 | 1:53:46 | 56.10 | 54.80 | 428 | 2.49 | 0.35 | 23.4 |
| 4/24/2015 | 1:53:47 | 56.42 | 55.12 | 463 | 2.32 | 0.34 | 25.3 |

## H290 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 1:48:24

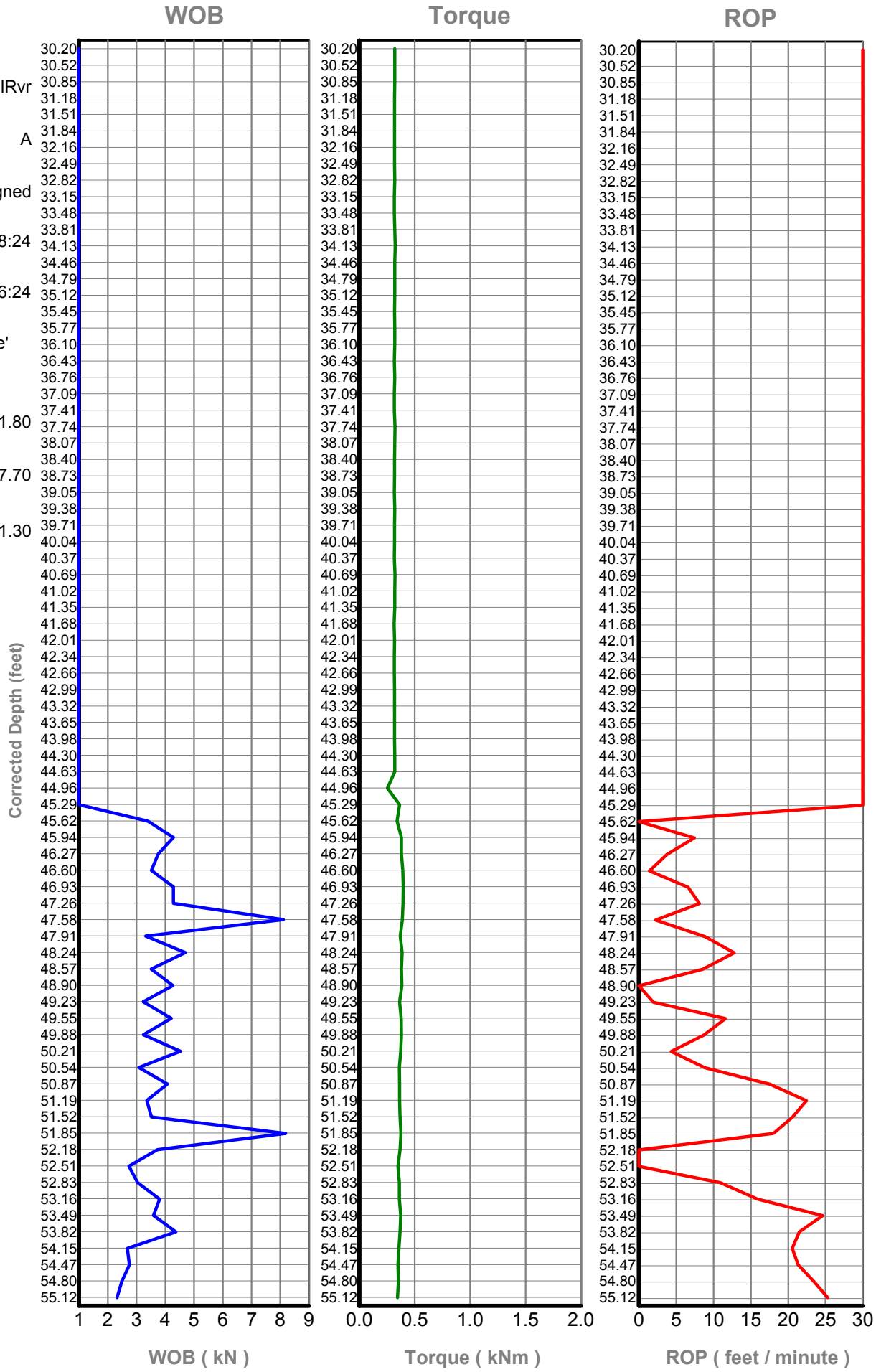
**End Date:**
4/24/2015 1:56:24

**Operator Note:**
'1.3 1.2 b Auto Complete'

**Northing:**
366,981.80

**Easting:**
251,437.70

**Tide (feet):**
1.30



## Hole: H291 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 1:51:37 | 31.50 | 30.20 | 577 | 2.02 | 0.17 | 31.6 |
| 4/24/2015 1:51:37 | 31.82 | 30.52 | 583 | 1.98 | 0.17 | 31.9 |
| 4/24/2015 1:51:38 | 32.15 | 30.85 | 583 | 2.02 | 0.17 | 31.9 |
| 4/24/2015 1:51:38 | 32.48 | 31.18 | 587 | 2.02 | 0.18 | 32.1 |
| 4/24/2015 1:51:39 | 32.81 | 31.51 | 587 | 2.00 | 0.18 | 32.1 |
| 4/24/2015 1:51:39 | 33.14 | 31.84 | 584 | 2.02 | 0.18 | 31.9 |
| 4/24/2015 1:51:40 | 33.46 | 32.16 | 596 | 2.02 | 0.18 | 32.6 |
| 4/24/2015 1:51:41 | 33.79 | 32.49 | 605 | 2.00 | 0.17 | 33.1 |
| 4/24/2015 1:51:41 | 34.12 | 32.82 | 598 | 2.02 | 0.18 | 32.7 |
| 4/24/2015 1:51:42 | 34.45 | 33.15 | 603 | 2.00 | 0.18 | 33.0 |
| 4/24/2015 1:51:42 | 34.78 | 33.48 | 583 | 2.02 | 0.17 | 31.9 |
| 4/24/2015 1:51:43 | 35.11 | 33.81 | 583 | 2.02 | 0.18 | 31.9 |
| 4/24/2015 1:51:44 | 35.43 | 34.13 | 587 | 2.02 | 0.17 | 32.1 |
| 4/24/2015 1:51:44 | 35.76 | 34.46 | 574 | 1.98 | 0.18 | 31.4 |
| 4/24/2015 1:51:45 | 36.09 | 34.79 | 574 | 2.00 | 0.18 | 31.4 |
| 4/24/2015 1:51:46 | 36.42 | 35.12 | 582 | 2.02 | 0.17 | 31.8 |
| 4/24/2015 1:51:46 | 36.75 | 35.45 | 597 | 2.01 | 0.17 | 32.6 |
| 4/24/2015 1:51:47 | 37.07 | 35.77 | 584 | 2.00 | 0.18 | 31.9 |
| 4/24/2015 1:51:47 | 37.40 | 36.10 | 588 | 2.02 | 0.18 | 32.2 |
| 4/24/2015 1:51:48 | 37.73 | 36.43 | 594 | 2.00 | 0.18 | 32.5 |
| 4/24/2015 1:51:49 | 38.06 | 36.76 | 593 | 2.00 | 0.17 | 32.4 |
| 4/24/2015 1:51:49 | 38.39 | 37.09 | 590 | 2.00 | 0.17 | 32.3 |
| 4/24/2015 1:51:50 | 38.71 | 37.41 | 590 | 1.99 | 0.17 | 32.3 |
| 4/24/2015 1:51:50 | 39.04 | 37.74 | 593 | 2.00 | 0.18 | 32.5 |
| 4/24/2015 1:51:51 | 39.37 | 38.07 | 600 | 2.02 | 0.17 | 32.8 |
| 4/24/2015 1:51:51 | 39.70 | 38.40 | 593 | 2.02 | 0.18 | 32.4 |
| 4/24/2015 1:51:52 | 40.03 | 38.73 | 596 | 1.92 | 0.18 | 32.6 |
| 4/24/2015 1:51:53 | 40.35 | 39.05 | 585 | 2.02 | 0.18 | 32.0 |
| 4/24/2015 1:51:53 | 40.68 | 39.38 | 585 | 2.02 | 0.18 | 32.0 |
| 4/24/2015 1:51:54 | 41.01 | 39.71 | 589 | 1.98 | 0.18 | 32.2 |
| 4/24/2015 1:51:55 | 41.34 | 40.04 | 592 | 2.03 | 0.17 | 32.4 |
| 4/24/2015 1:51:55 | 41.67 | 40.37 | 582 | 2.01 | 0.17 | 31.8 |
| 4/24/2015 1:51:56 | 41.99 | 40.69 | 597 | 2.02 | 0.18 | 32.6 |
| 4/24/2015 1:51:57 | 42.32 | 41.02 | 600 | 2.02 | 0.18 | 32.8 |
| 4/24/2015 1:51:57 | 42.65 | 41.35 | 597 | 1.98 | 0.17 | 32.6 |
| 4/24/2015 1:51:58 | 42.98 | 41.68 | 590 | 1.99 | 0.18 | 32.3 |
| 4/24/2015 1:51:58 | 43.31 | 42.01 | 600 | 2.01 | 0.17 | 32.8 |
| 4/24/2015 1:51:59 | 43.64 | 42.34 | 596 | 2.00 | 0.18 | 32.6 |
| 4/24/2015 1:51:59 | 43.96 | 42.66 | 592 | 2.02 | 0.17 | 32.4 |
| 4/24/2015 1:52:00 | 44.29 | 42.99 | 596 | 1.99 | 0.17 | 32.6 |
| 4/24/2015 1:52:01 | 44.62 | 43.32 | 602 | 2.01 | 0.18 | 32.9 |
| 4/24/2015 1:52:01 | 44.95 | 43.65 | 593 | 2.01 | 0.18 | 32.4 |
| 4/24/2015 1:52:02 | 45.28 | 43.98 | 596 | 2.02 | 0.18 | 32.6 |
| 4/24/2015 1:52:02 | 45.60 | 44.30 | 593 | 2.02 | 0.18 | 32.4 |
| 4/24/2015 1:52:03 | 45.93 | 44.63 | 575 | 1.98 | 0.17 | 31.4 |
| 4/24/2015 1:52:04 | 46.26 | 44.96 | 582 | 2.01 | 0.17 | 31.8 |
| 4/24/2015 1:52:04 | 46.59 | 45.29 | 585 | 1.97 | 0.18 | 32.0 |
| 4/24/2015 1:52:38 | 46.92 | 45.62 | 0 | 2.02 | 1.43 | 0.0 |
| 4/24/2015 1:52:39 | 47.24 | 45.94 | 135 | 1.92 | 1.28 | 7.4 |
| 4/24/2015 1:52:52 | 47.57 | 46.27 | 23 | 2.00 | 1.45 | 1.2 |
| 4/24/2015 1:52:53 | 47.90 | 46.60 | 149 | 2.04 | 1.39 | 8.1 |
| 4/24/2015 1:52:57 | 48.23 | 46.93 | 0 | 2.00 | 1.23 | 0.0 |
| 4/24/2015 1:53:08 | 48.56 | 47.26 | 67 | 2.02 | 1.54 | 3.7 |
| 4/24/2015 1:53:27 | 48.88 | 47.58 | 104 | 2.00 | 1.18 | 5.7 |
| 4/24/2015 1:53:28 | 49.21 | 47.91 | 188 | 2.01 | 1.02 | 10.3 |
| 4/24/2015 1:53:30 | 49.54 | 48.24 | 280 | 2.01 | 1.13 | 15.3 |
| 4/24/2015 1:53:50 | 49.87 | 48.57 | 96 | 1.98 | 1.13 | 5.2 |
| 4/24/2015 1:53:51 | 50.20 | 48.90 | 218 | 2.00 | 1.13 | 11.9 |
| 4/24/2015 1:53:52 | 50.53 | 49.23 | 312 | 2.01 | 1.23 | 17.1 |
| 4/24/2015 1:54:27 | 50.85 | 49.55 | 87 | 2.02 | 1.06 | 4.7 |
| 4/24/2015 1:54:28 | 51.18 | 49.88 | 207 | 2.02 | 1.14 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 1:54:29 | 51.51 | 50.21 | 310 | 1.98 | 1.12 | 17.0 |
| 4/24/2015 | 1:54:30 | 51.84 | 50.54 | 335 | 2.00 | 1.17 | 18.3 |
| 4/24/2015 | 1:54:32 | 52.17 | 50.87 | 356 | 2.02 | 1.09 | 19.4 |
| 4/24/2015 | 1:54:36 | 52.49 | 51.19 | 0 | 1.99 | 1.56 | 0.0 |
| 4/24/2015 | 1:54:43 | 52.82 | 51.52 | 122 | 2.01 | 1.37 | 6.7 |
| 4/24/2015 | 1:54:44 | 53.15 | 51.85 | 166 | 1.98 | 1.09 | 9.1 |
| 4/24/2015 | 1:55:00 | 53.48 | 52.18 | 15 | 2.01 | 1.27 | 0.8 |
| 4/24/2015 | 1:55:02 | 53.81 | 52.51 | 103 | 2.00 | 1.17 | 5.6 |
| 4/24/2015 | 1:55:04 | 54.13 | 52.83 | 212 | 2.00 | 1.36 | 11.6 |
| 4/24/2015 | 1:55:06 | 54.46 | 53.16 | 205 | 2.01 | 1.33 | 11.2 |
| 4/24/2015 | 1:55:08 | 54.79 | 53.49 | 172 | 2.02 | 1.28 | 9.4 |
| 4/24/2015 | 1:55:10 | 55.12 | 53.82 | 169 | 2.00 | 1.16 | 9.3 |
| 4/24/2015 | 1:55:12 | 55.45 | 54.15 | 173 | 2.00 | 1.39 | 9.5 |
| 4/24/2015 | 1:55:14 | 55.77 | 54.47 | 182 | 2.01 | 1.21 | 10.0 |
| 4/24/2015 | 1:55:15 | 56.10 | 54.80 | 205 | 2.03 | 1.26 | 11.2 |
| 4/24/2015 | 1:55:16 | 56.22 | 54.92 | 213 | 2.00 | 1.30 | 11.6 |

## H291 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 1:49:41

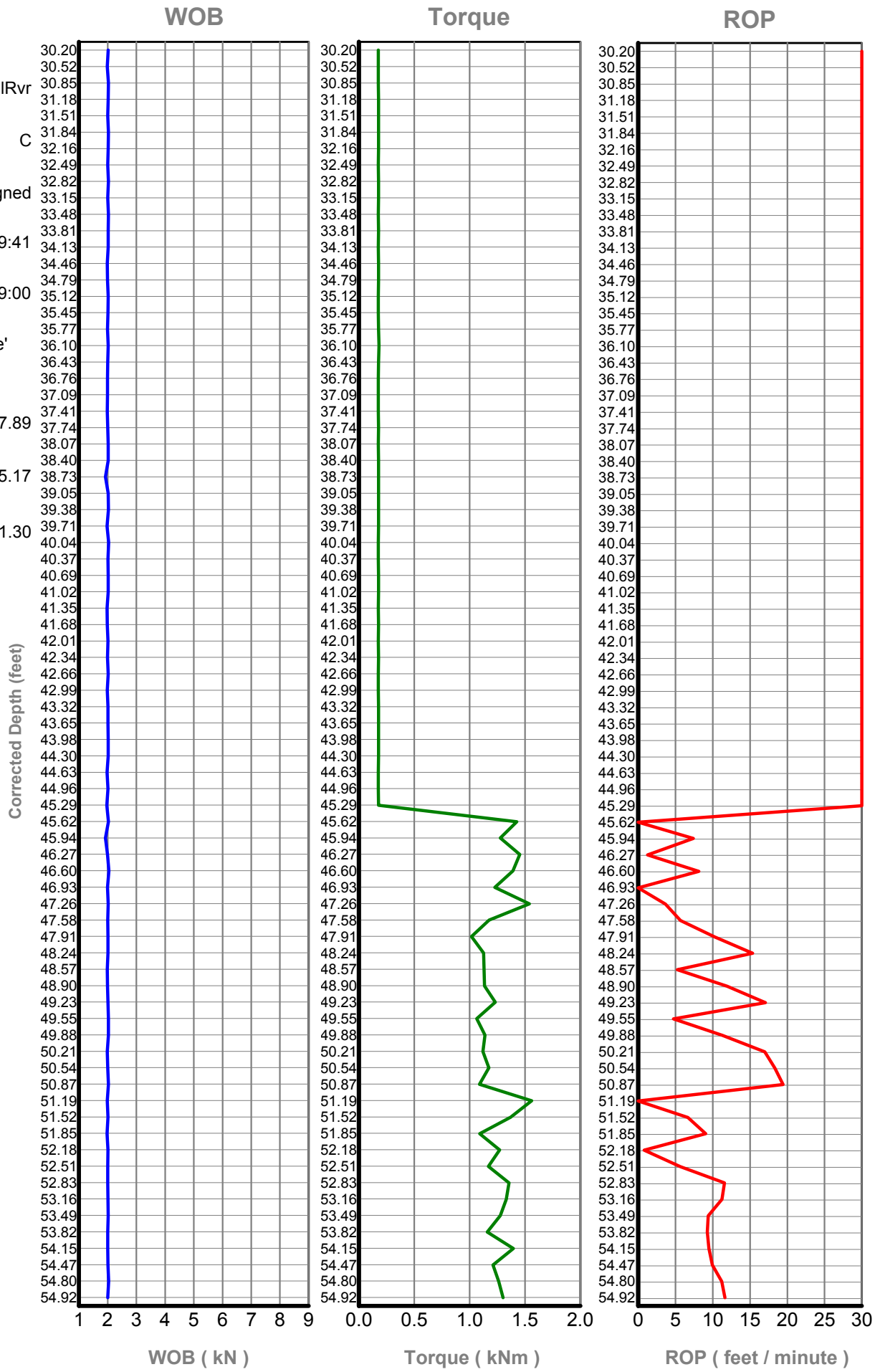
**End Date:**
4/24/2015 1:59:00

**Operator Note:**
'1.3 1.2 c Auto Complete'

**Northing:**
367,027.89

**Easting:**
251,495.17

**Tide (feet):**
1.30



## Hole: H292 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:29:35 | 32.81 | 30.11 | 877 | 0.23 | 0.32 | 48.0 |
| 4/23/2015 20:29:36 | 33.14 | 30.44 | 878 | 0.21 | 0.33 | 48.0 |
| 4/23/2015 20:29:37 | 33.46 | 30.76 | 867 | 0.23 | 0.30 | 47.4 |
| 4/23/2015 20:29:37 | 33.79 | 31.09 | 867 | 0.23 | 0.30 | 47.4 |
| 4/23/2015 20:29:37 | 34.12 | 31.42 | 856 | -0.06 | 0.32 | 46.8 |
| 4/23/2015 20:29:38 | 34.45 | 31.75 | 843 | 0.22 | 0.32 | 46.1 |
| 4/23/2015 20:29:38 | 34.78 | 32.08 | 851 | 0.23 | 0.32 | 46.5 |
| 4/23/2015 20:29:39 | 35.11 | 32.41 | 853 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:29:39 | 35.43 | 32.73 | 853 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:29:39 | 35.76 | 33.06 | 853 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:29:40 | 36.09 | 33.39 | 853 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:29:40 | 36.42 | 33.72 | 858 | 0.22 | 0.33 | 46.9 |
| 4/23/2015 20:29:41 | 36.75 | 34.05 | 855 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 20:29:41 | 37.07 | 34.37 | 855 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 20:29:41 | 37.40 | 34.70 | 847 | 0.23 | 0.33 | 46.3 |
| 4/23/2015 20:29:42 | 37.73 | 35.03 | 845 | 0.23 | 0.33 | 46.2 |
| 4/23/2015 20:29:42 | 38.06 | 35.36 | 853 | 0.23 | 0.32 | 46.6 |
| 4/23/2015 20:29:43 | 38.39 | 35.69 | 856 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 20:29:43 | 38.71 | 36.01 | 856 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 20:29:43 | 39.04 | 36.34 | 859 | 0.22 | 0.33 | 47.0 |
| 4/23/2015 20:29:44 | 39.37 | 36.67 | 862 | 0.22 | 0.33 | 47.1 |
| 4/23/2015 20:29:44 | 39.70 | 37.00 | 867 | 0.22 | 0.33 | 47.4 |
| 4/23/2015 20:29:45 | 40.03 | 37.33 | 864 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 20:29:46 | 40.35 | 37.65 | 864 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 20:29:45 | 40.68 | 37.98 | 841 | 0.23 | 0.33 | 46.0 |
| 4/23/2015 20:29:46 | 41.01 | 38.31 | 841 | 0.24 | 0.33 | 46.0 |
| 4/23/2015 20:29:47 | 41.34 | 38.64 | 846 | 0.23 | 0.33 | 46.3 |
| 4/23/2015 20:29:47 | 41.67 | 38.97 | 849 | 0.23 | 0.33 | 46.5 |
| 4/23/2015 20:29:48 | 41.99 | 39.29 | 849 | 0.23 | 0.33 | 46.5 |
| 4/23/2015 20:29:48 | 42.32 | 39.62 | 852 | 0.22 | 0.33 | 46.6 |
| 4/23/2015 20:29:48 | 42.65 | 39.95 | 846 | 0.22 | 0.33 | 46.3 |
| 4/23/2015 20:29:49 | 42.98 | 40.28 | 873 | 0.23 | 0.32 | 47.7 |
| 4/23/2015 20:29:49 | 43.31 | 40.61 | 873 | 0.23 | 0.32 | 47.7 |
| 4/23/2015 20:29:49 | 43.64 | 40.94 | 867 | 0.23 | 0.33 | 47.4 |
| 4/23/2015 20:29:50 | 43.96 | 41.26 | 864 | 0.22 | 0.33 | 47.3 |
| 4/23/2015 20:29:50 | 44.29 | 41.59 | 854 | 0.23 | 0.32 | 46.7 |
| 4/23/2015 20:29:51 | 44.62 | 41.92 | 850 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 20:29:51 | 44.95 | 42.25 | 850 | 0.22 | 0.33 | 46.5 |
| 4/23/2015 20:29:51 | 45.28 | 42.58 | 850 | 0.23 | 0.32 | 46.5 |
| 4/23/2015 20:29:52 | 45.60 | 42.90 | 851 | 0.23 | 0.33 | 46.5 |
| 4/23/2015 20:29:52 | 45.93 | 43.23 | 857 | 0.22 | 0.33 | 46.8 |
| 4/23/2015 20:29:53 | 46.26 | 43.56 | 859 | 0.22 | 0.33 | 47.0 |
| 4/23/2015 20:29:53 | 46.59 | 43.89 | 859 | 0.22 | 0.33 | 47.0 |
| 4/23/2015 20:29:53 | 46.92 | 44.22 | 850 | 0.23 | 0.32 | 46.5 |
| 4/23/2015 20:29:54 | 47.24 | 44.54 | 862 | 0.23 | 0.33 | 47.1 |
| 4/23/2015 20:29:54 | 47.57 | 44.87 | 862 | 0.22 | 0.33 | 47.1 |
| 4/23/2015 20:29:55 | 47.90 | 45.20 | 868 | 0.24 | 0.35 | 47.5 |
| 4/23/2015 20:29:55 | 48.23 | 45.53 | 817 | 0.20 | 0.38 | 44.7 |
| 4/23/2015 20:30:35 | 48.56 | 45.86 | 11 | 2.81 | 0.35 | 0.6 |
| 4/23/2015 20:30:38 | 48.88 | 46.18 | 94 | 4.23 | 0.37 | 5.2 |
| 4/23/2015 20:30:41 | 49.21 | 46.51 | 108 | 2.95 | 0.34 | 5.9 |
| 4/23/2015 20:30:43 | 49.54 | 46.84 | 123 | 4.58 | 0.38 | 6.7 |
| 4/23/2015 20:30:50 | 49.87 | 47.17 | 18 | 5.25 | 0.39 | 1.0 |
| 4/23/2015 20:30:58 | 50.20 | 47.50 | 18 | 5.64 | 0.39 | 1.0 |
| 4/23/2015 20:31:01 | 50.53 | 47.83 | 140 | 4.79 | 0.38 | 7.7 |
| 4/23/2015 20:31:02 | 50.85 | 48.15 | 155 | 3.38 | 0.38 | 8.5 |
| 4/23/2015 20:31:04 | 51.18 | 48.48 | 229 | 3.81 | 0.38 | 12.5 |
| 4/23/2015 20:31:10 | 51.51 | 48.81 | 27 | 4.07 | 0.38 | 1.5 |
| 4/23/2015 20:31:16 | 51.84 | 49.14 | 69 | 3.52 | 0.37 | 3.8 |
| 4/23/2015 20:31:30 | 52.17 | 49.47 | 29 | 3.83 | 0.37 | 1.6 |
| 4/23/2015 20:31:32 | 52.49 | 49.79 | 159 | 4.16 | 0.37 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 20:31:34 | 52.82 | 50.12 | 115 | 3.52 | 0.39 | 6.3 |
| 4/23/2015 | 20:31:36 | 53.15 | 50.45 | 220 | 4.55 | 0.38 | 12.0 |
| 4/23/2015 | 20:31:39 | 53.48 | 50.78 | 121 | 5.46 | 0.39 | 6.6 |
| 4/23/2015 | 20:31:43 | 53.81 | 51.11 | 119 | 3.83 | 0.37 | 6.5 |
| 4/23/2015 | 20:31:44 | 54.13 | 51.43 | 230 | 4.78 | 0.38 | 12.6 |
| 4/23/2015 | 20:31:53 | 54.46 | 51.76 | 6 | 3.91 | 0.37 | 0.3 |
| 4/23/2015 | 20:31:54 | 54.79 | 52.09 | 157 | 3.37 | 0.36 | 8.6 |
| 4/23/2015 | 20:31:55 | 55.12 | 52.42 | 240 | 3.21 | 0.36 | 13.1 |
| 4/23/2015 | 20:31:56 | 55.45 | 52.75 | 321 | 3.24 | 0.36 | 17.5 |
| 4/23/2015 | 20:31:57 | 55.77 | 53.07 | 403 | 4.59 | 0.40 | 22.1 |
| 4/23/2015 | 20:31:58 | 56.10 | 53.40 | 296 | 3.41 | 0.37 | 16.2 |
| 4/23/2015 | 20:32:00 | 56.43 | 53.73 | 211 | 3.48 | 0.37 | 11.6 |
| 4/23/2015 | 20:32:01 | 56.76 | 54.06 | 240 | 3.34 | 0.37 | 13.1 |
| 4/23/2015 | 20:32:03 | 57.09 | 54.39 | 238 | 5.12 | 0.38 | 13.0 |
| 4/23/2015 | 20:32:05 | 57.41 | 54.71 | 218 | 5.25 | 0.39 | 11.9 |
| 4/23/2015 | 20:32:08 | 57.74 | 55.04 | 87 | 4.52 | 0.39 | 4.7 |
| 4/23/2015 | 20:32:10 | 58.07 | 55.37 | 113 | 3.73 | 0.37 | 6.2 |
| 4/23/2015 | 20:32:11 | 58.40 | 55.70 | 153 | 2.63 | 0.36 | 8.4 |
| 4/23/2015 | 20:32:15 | 58.73 | 56.03 | 100 | 6.17 | 0.43 | 5.5 |
| 4/23/2015 | 20:32:16 | 58.84 | 56.14 | 61 | 4.70 | 0.40 | 3.3 |

## H292 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:26:41

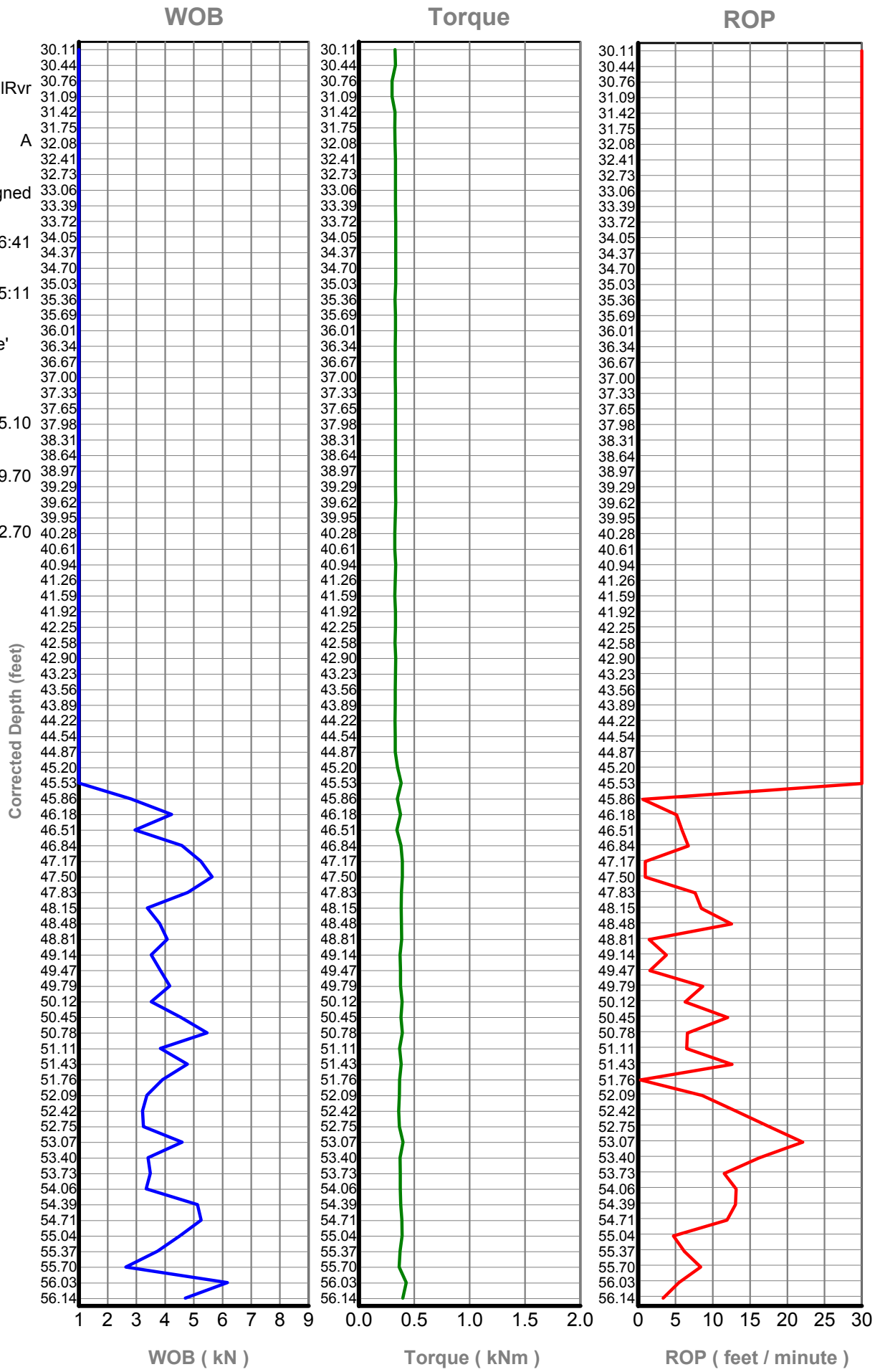
**End Date:**
4/23/2015 20:45:11

**Operator Note:**
'2.7 2.7 b Auto Complete'

**Northing:**
367,085.10

**Easting:**
251,559.70

**Tide (feet):**
2.70



## Hole: H293 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:20:24 | 32.81 | 30.11 | 807 | 0.24 | 0.33 | 44.1 |
| 4/23/2015 20:20:25 | 33.14 | 30.44 | 814 | 0.24 | 0.34 | 44.5 |
| 4/23/2015 20:20:25 | 33.46 | 30.76 | 807 | 0.23 | 0.33 | 44.1 |
| 4/23/2015 20:20:26 | 33.79 | 31.09 | 804 | 0.24 | 0.33 | 43.9 |
| 4/23/2015 20:20:26 | 34.12 | 31.42 | 798 | 0.24 | 0.33 | 43.6 |
| 4/23/2015 20:20:27 | 34.45 | 31.75 | 798 | 0.24 | 0.33 | 43.6 |
| 4/23/2015 20:20:27 | 34.78 | 32.08 | 801 | 0.23 | 0.33 | 43.8 |
| 4/23/2015 20:20:27 | 35.11 | 32.41 | 796 | 0.23 | 0.34 | 43.5 |
| 4/23/2015 20:20:28 | 35.43 | 32.73 | 801 | 0.23 | 0.34 | 43.8 |
| 4/23/2015 20:20:28 | 35.76 | 33.06 | 798 | 0.23 | 0.33 | 43.6 |
| 4/23/2015 20:20:29 | 36.09 | 33.39 | 798 | 0.23 | 0.33 | 43.6 |
| 4/23/2015 20:20:29 | 36.42 | 33.72 | 795 | 0.23 | 0.34 | 43.5 |
| 4/23/2015 20:20:30 | 36.75 | 34.05 | 795 | 0.23 | 0.34 | 43.5 |
| 4/23/2015 20:20:30 | 37.07 | 34.37 | 798 | 0.23 | 0.33 | 43.6 |
| 4/23/2015 20:20:30 | 37.40 | 34.70 | 798 | 0.24 | 0.34 | 43.6 |
| 4/23/2015 20:20:31 | 37.73 | 35.03 | 801 | 0.23 | 0.34 | 43.8 |
| 4/23/2015 20:20:31 | 38.06 | 35.36 | 799 | 0.23 | 0.34 | 43.7 |
| 4/23/2015 20:20:32 | 38.39 | 35.69 | 809 | 0.23 | 0.34 | 44.3 |
| 4/23/2015 20:20:32 | 38.71 | 36.01 | 809 | 0.23 | 0.34 | 44.3 |
| 4/23/2015 20:20:32 | 39.04 | 36.34 | 809 | 0.23 | 0.34 | 44.3 |
| 4/23/2015 20:20:33 | 39.37 | 36.67 | 815 | 0.25 | 0.34 | 44.6 |
| 4/23/2015 20:20:33 | 39.70 | 37.00 | 815 | 0.23 | 0.34 | 44.6 |
| 4/23/2015 20:20:34 | 40.03 | 37.33 | 818 | 0.23 | 0.34 | 44.7 |
| 4/23/2015 20:20:35 | 40.35 | 37.65 | 809 | 0.23 | 0.34 | 44.3 |
| 4/23/2015 20:20:35 | 40.68 | 37.98 | 806 | 0.23 | 0.33 | 44.1 |
| 4/23/2015 20:20:36 | 41.01 | 38.31 | 806 | 0.23 | 0.33 | 44.1 |
| 4/23/2015 20:20:36 | 41.34 | 38.64 | 799 | 0.23 | 0.25 | 43.7 |
| 4/23/2015 20:20:36 | 41.67 | 38.97 | 806 | 0.24 | 0.33 | 44.1 |
| 4/23/2015 20:20:37 | 41.99 | 39.29 | 804 | 0.23 | 0.34 | 43.9 |
| 4/23/2015 20:20:37 | 42.32 | 39.62 | 809 | 0.23 | 0.33 | 44.3 |
| 4/23/2015 20:20:38 | 42.65 | 39.95 | 815 | 0.23 | 0.34 | 44.6 |
| 4/23/2015 20:20:38 | 42.98 | 40.28 | 815 | 0.23 | 0.34 | 44.6 |
| 4/23/2015 20:20:38 | 43.31 | 40.61 | 821 | 0.23 | 0.33 | 44.9 |
| 4/23/2015 20:20:39 | 43.64 | 40.94 | 818 | 0.24 | 0.33 | 44.7 |
| 4/23/2015 20:20:39 | 43.96 | 41.26 | 818 | 0.35 | 0.33 | 44.7 |
| 4/23/2015 20:20:40 | 44.29 | 41.59 | 813 | 0.27 | 0.33 | 44.5 |
| 4/23/2015 20:20:40 | 44.62 | 41.92 | 818 | 0.27 | 0.34 | 44.7 |
| 4/23/2015 20:20:41 | 44.95 | 42.25 | 809 | 0.26 | 0.33 | 44.3 |
| 4/23/2015 20:20:41 | 45.28 | 42.58 | 809 | 0.26 | 0.33 | 44.3 |
| 4/23/2015 20:20:41 | 45.60 | 42.90 | 807 | 0.24 | 0.34 | 44.1 |
| 4/23/2015 20:20:42 | 45.93 | 43.23 | 807 | 0.22 | 0.33 | 44.1 |
| 4/23/2015 20:20:42 | 46.26 | 43.56 | 809 | 0.23 | 0.33 | 44.3 |
| 4/23/2015 20:20:43 | 46.59 | 43.89 | 795 | 0.24 | 0.33 | 43.5 |
| 4/23/2015 20:20:43 | 46.92 | 44.22 | 795 | 0.24 | 0.34 | 43.5 |
| 4/23/2015 20:20:44 | 47.24 | 44.54 | 795 | 0.24 | 0.34 | 43.5 |
| 4/23/2015 20:20:44 | 47.57 | 44.87 | 808 | 0.24 | 0.34 | 44.2 |
| 4/23/2015 20:20:44 | 47.90 | 45.20 | 809 | 0.24 | 0.33 | 44.3 |
| 4/23/2015 20:20:45 | 48.23 | 45.53 | 803 | 0.24 | 0.34 | 43.9 |
| 4/23/2015 20:20:46 | 48.56 | 45.86 | 803 | 0.24 | 0.33 | 43.9 |
| 4/23/2015 20:20:46 | 48.88 | 46.18 | 809 | 0.24 | 0.33 | 44.2 |
| 4/23/2015 20:20:47 | 49.21 | 46.51 | 804 | 0.23 | 0.34 | 43.9 |
| 4/23/2015 20:20:47 | 49.54 | 46.84 | 804 | 0.23 | 0.34 | 43.9 |
| 4/23/2015 20:20:47 | 49.87 | 47.17 | 798 | 0.24 | 0.35 | 43.6 |
| 4/23/2015 20:21:21 | 50.20 | 47.50 | 0 | 3.85 | 0.37 | 0.0 |
| 4/23/2015 20:21:24 | 50.53 | 47.83 | 75 | 5.04 | 0.39 | 4.1 |
| 4/23/2015 20:21:26 | 50.85 | 48.15 | 174 | 4.64 | 0.38 | 9.5 |
| 4/23/2015 20:21:33 | 51.18 | 48.48 | 21 | 3.53 | 0.37 | 1.1 |
| 4/23/2015 20:21:35 | 51.51 | 48.81 | 196 | 3.71 | 0.38 | 10.7 |
| 4/23/2015 20:21:37 | 51.84 | 49.14 | 137 | 3.90 | 0.38 | 7.5 |
| 4/23/2015 20:21:49 | 52.17 | 49.47 | 118 | 4.02 | 0.37 | 6.4 |
| 4/23/2015 20:21:50 | 52.49 | 49.79 | 260 | 3.26 | 0.37 | 14.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 20:22:22 | 52.82 | 50.12 | 3 | 3.00 | 0.36 | 0.2 |
| 4/23/2015 | 20:22:23 | 53.15 | 50.45 | 103 | 4.26 | 0.38 | 5.6 |
| 4/23/2015 | 20:22:24 | 53.48 | 50.78 | 248 | 4.28 | 0.39 | 13.6 |
| 4/23/2015 | 20:22:26 | 53.81 | 51.11 | 242 | 4.22 | 0.39 | 13.2 |
| 4/23/2015 | 20:22:31 | 54.13 | 51.43 | 0 | 4.12 | 0.37 | 0.0 |
| 4/23/2015 | 20:22:38 | 54.46 | 51.76 | 37 | 4.01 | 0.37 | 2.0 |
| 4/23/2015 | 20:22:40 | 54.79 | 52.09 | 100 | 3.42 | 0.39 | 5.5 |
| 4/23/2015 | 20:22:41 | 55.12 | 52.42 | 177 | 3.57 | 0.39 | 9.7 |
| 4/23/2015 | 20:22:43 | 55.45 | 52.75 | 216 | 3.41 | 0.38 | 11.8 |
| 4/23/2015 | 20:22:44 | 55.77 | 53.07 | 222 | 3.41 | 0.40 | 12.1 |
| 4/23/2015 | 20:22:47 | 56.10 | 53.40 | 142 | 3.50 | 0.39 | 7.8 |
| 4/23/2015 | 20:22:49 | 56.43 | 53.73 | 176 | 3.43 | 0.39 | 9.6 |
| 4/23/2015 | 20:22:51 | 56.76 | 54.06 | 185 | 3.32 | 0.39 | 10.1 |
| 4/23/2015 | 20:22:57 | 57.09 | 54.39 | 0 | 3.45 | 0.38 | 0.0 |
| 4/23/2015 | 20:22:59 | 57.41 | 54.71 | 132 | 3.32 | 0.39 | 7.2 |
| 4/23/2015 | 20:23:02 | 57.74 | 55.04 | 142 | 3.58 | 0.39 | 7.7 |
| 4/23/2015 | 20:23:04 | 57.93 | 55.23 | 135 | 3.15 | 0.40 | 7.4 |

## H293 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:16:50

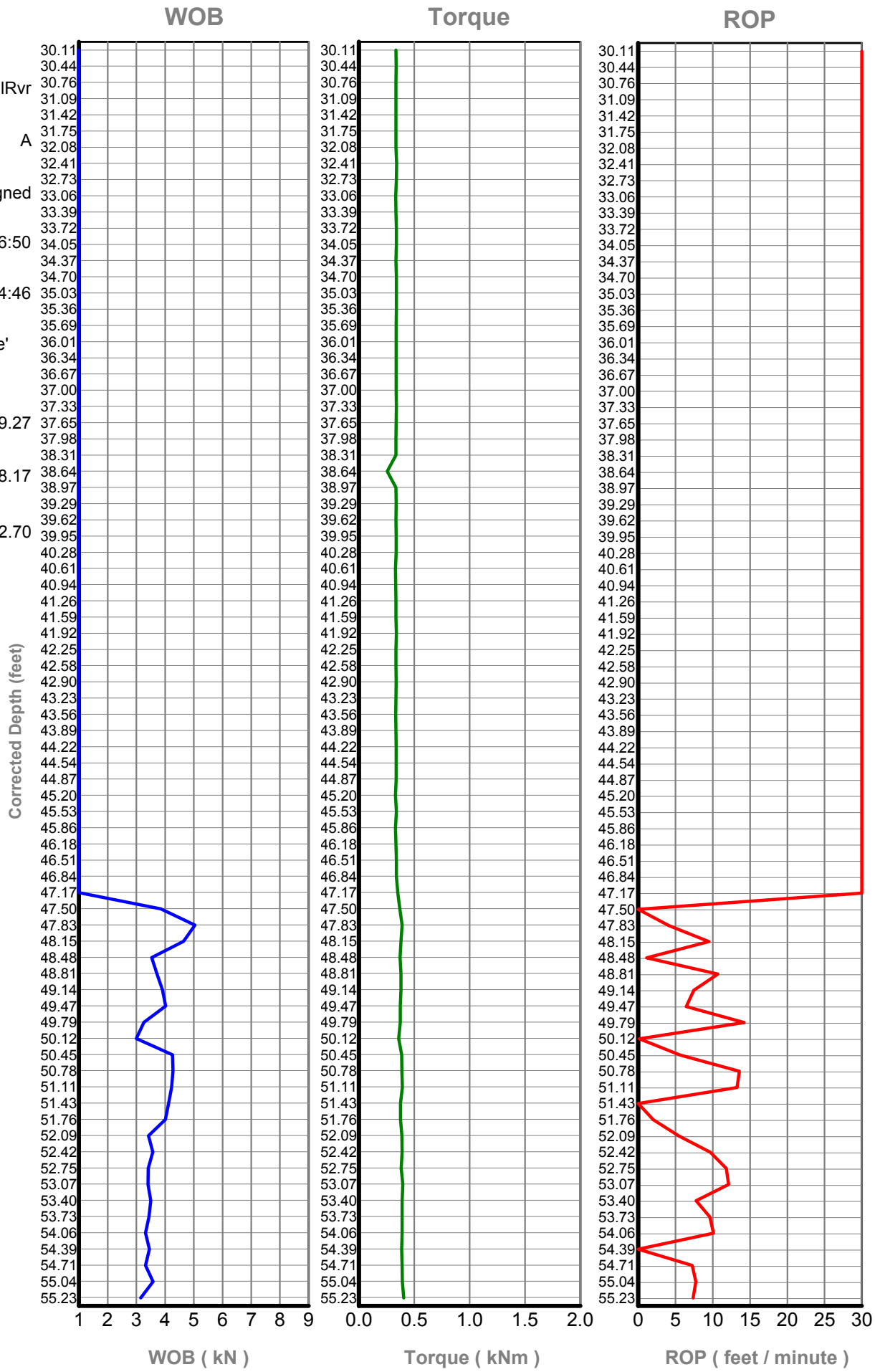
**End Date:**
4/23/2015 20:24:46

**Operator Note:**
'2.7 2.8 b Auto Complete'

**Northing:**
367,129.27

**Easting:**
251,618.17

**Tide (feet):**
2.70



## Hole: H294 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 20:22:39 | 32.81 | 30.11 | 537 | 2.06 | 0.20 | 29.4 |
| 4/23/2015 20:22:40 | 33.14 | 30.44 | 552 | 2.08 | 0.20 | 30.2 |
| 4/23/2015 20:22:40 | 33.46 | 30.76 | 540 | 2.05 | 0.20 | 29.5 |
| 4/23/2015 20:22:41 | 33.79 | 31.09 | 543 | 2.08 | 0.20 | 29.7 |
| 4/23/2015 20:22:41 | 34.12 | 31.42 | 540 | 2.05 | 0.20 | 29.5 |
| 4/23/2015 20:22:43 | 34.45 | 31.75 | 544 | 2.07 | 0.20 | 29.7 |
| 4/23/2015 20:22:43 | 34.78 | 32.08 | 547 | 1.91 | 0.20 | 29.9 |
| 4/23/2015 20:22:44 | 35.11 | 32.41 | 544 | 2.10 | 0.20 | 29.7 |
| 4/23/2015 20:22:44 | 35.43 | 32.73 | 544 | 2.06 | 0.20 | 29.7 |
| 4/23/2015 20:22:45 | 35.76 | 33.06 | 543 | 2.05 | 0.20 | 29.7 |
| 4/23/2015 20:22:46 | 36.09 | 33.39 | 541 | 2.09 | 0.20 | 29.6 |
| 4/23/2015 20:22:46 | 36.42 | 33.72 | 544 | 2.05 | 0.20 | 29.7 |
| 4/23/2015 20:22:47 | 36.75 | 34.05 | 544 | 2.10 | 0.20 | 29.7 |
| 4/23/2015 20:22:48 | 37.07 | 34.37 | 544 | 2.10 | 0.20 | 29.7 |
| 4/23/2015 20:22:48 | 37.40 | 34.70 | 546 | 2.06 | 0.20 | 29.9 |
| 4/23/2015 20:22:49 | 37.73 | 35.03 | 540 | 2.10 | 0.20 | 29.5 |
| 4/23/2015 20:22:49 | 38.06 | 35.36 | 549 | 2.06 | 0.20 | 30.0 |
| 4/23/2015 20:22:50 | 38.39 | 35.69 | 544 | 2.09 | 0.20 | 29.7 |
| 4/23/2015 20:22:51 | 38.71 | 36.01 | 540 | 2.06 | 0.20 | 29.5 |
| 4/23/2015 20:22:51 | 39.04 | 36.34 | 547 | 2.11 | 0.20 | 29.9 |
| 4/23/2015 20:22:53 | 39.37 | 36.67 | 544 | 2.00 | 0.20 | 29.7 |
| 4/23/2015 20:22:53 | 39.70 | 37.00 | 537 | 2.04 | 0.20 | 29.4 |
| 4/23/2015 20:22:54 | 40.03 | 37.33 | 537 | 2.08 | 0.20 | 29.4 |
| 4/23/2015 20:22:54 | 40.35 | 37.65 | 544 | 2.05 | 0.20 | 29.7 |
| 4/23/2015 20:22:55 | 40.68 | 37.98 | 544 | 2.06 | 0.20 | 29.7 |
| 4/23/2015 20:22:56 | 41.01 | 38.31 | 547 | 2.09 | 0.20 | 29.9 |
| 4/23/2015 20:22:56 | 41.34 | 38.64 | 553 | 2.10 | 0.20 | 30.2 |
| 4/23/2015 20:22:57 | 41.67 | 38.97 | 546 | 2.09 | 0.20 | 29.9 |
| 4/23/2015 20:22:58 | 41.99 | 39.29 | 546 | 2.10 | 0.20 | 29.9 |
| 4/23/2015 20:22:58 | 42.32 | 39.62 | 543 | 2.08 | 0.20 | 29.7 |
| 4/23/2015 20:22:59 | 42.65 | 39.95 | 541 | 2.10 | 0.20 | 29.6 |
| 4/23/2015 20:22:59 | 42.98 | 40.28 | 543 | 2.04 | 0.20 | 29.7 |
| 4/23/2015 20:23:00 | 43.31 | 40.61 | 523 | 2.06 | 0.20 | 28.6 |
| 4/23/2015 20:23:01 | 43.64 | 40.94 | 535 | 2.10 | 0.20 | 29.2 |
| 4/23/2015 20:23:01 | 43.96 | 41.26 | 535 | 2.07 | 0.20 | 29.2 |
| 4/23/2015 20:23:02 | 44.29 | 41.59 | 537 | 2.09 | 0.20 | 29.4 |
| 4/23/2015 20:23:03 | 44.62 | 41.92 | 556 | 2.06 | 0.20 | 30.4 |
| 4/23/2015 20:23:04 | 44.95 | 42.25 | 537 | 2.10 | 0.20 | 29.4 |
| 4/23/2015 20:23:04 | 45.28 | 42.58 | 541 | 2.07 | 0.20 | 29.6 |
| 4/23/2015 20:23:05 | 45.60 | 42.90 | 541 | 2.10 | 0.20 | 29.6 |
| 4/23/2015 20:23:06 | 45.93 | 43.23 | 541 | 2.11 | 0.20 | 29.6 |
| 4/23/2015 20:23:06 | 46.26 | 43.56 | 546 | 2.04 | 0.20 | 29.9 |
| 4/23/2015 20:23:07 | 46.59 | 43.89 | 543 | 2.10 | 0.20 | 29.7 |
| 4/23/2015 20:23:08 | 46.92 | 44.22 | 534 | 2.10 | 0.20 | 29.2 |
| 4/23/2015 20:23:08 | 47.24 | 44.54 | 544 | 2.06 | 0.20 | 29.7 |
| 4/23/2015 20:23:09 | 47.57 | 44.87 | 541 | 2.12 | 0.20 | 29.6 |
| 4/23/2015 20:23:09 | 47.90 | 45.20 | 535 | 2.06 | 0.20 | 29.3 |
| 4/23/2015 20:23:10 | 48.23 | 45.53 | 545 | 2.05 | 0.20 | 29.8 |
| 4/23/2015 20:23:11 | 48.56 | 45.86 | 542 | 2.10 | 0.20 | 29.6 |
| 4/23/2015 20:23:11 | 48.88 | 46.18 | 538 | 2.08 | 0.20 | 29.4 |
| 4/23/2015 20:23:12 | 49.21 | 46.51 | 541 | 2.08 | 0.20 | 29.6 |
| 4/23/2015 20:23:13 | 49.54 | 46.84 | 542 | 2.10 | 0.20 | 29.7 |
| 4/23/2015 20:23:14 | 49.87 | 47.17 | 536 | 2.06 | 0.20 | 29.3 |
| 4/23/2015 20:23:14 | 50.20 | 47.50 | 536 | 2.10 | 0.20 | 29.3 |
| 4/23/2015 20:23:15 | 50.53 | 47.83 | 546 | 2.10 | 0.20 | 29.8 |
| 4/23/2015 20:23:16 | 50.85 | 48.15 | 539 | 2.10 | 0.20 | 29.5 |
| 4/23/2015 20:24:02 | 51.18 | 48.48 | 86 | 2.12 | 1.18 | 4.7 |
| 4/23/2015 20:24:03 | 51.51 | 48.81 | 86 | 2.09 | 1.18 | 4.7 |
| 4/23/2015 20:24:08 | 51.84 | 49.14 | 32 | 2.04 | 1.31 | 1.8 |
| 4/23/2015 20:24:09 | 52.17 | 49.47 | 128 | 2.03 | 1.21 | 7.0 |
| 4/23/2015 20:24:15 | 52.49 | 49.79 | 0 | 2.06 | 1.37 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 20:24:17 | 52.82 | 50.12 | 124 | 2.05 | 1.24 | 6.8 |
| 4/23/2015 | 20:24:18 | 53.15 | 50.45 | 254 | 2.09 | 1.26 | 13.9 |
| 4/23/2015 | 20:24:59 | 53.48 | 50.78 | 41 | 2.06 | 1.21 | 2.2 |
| 4/23/2015 | 20:25:00 | 53.81 | 51.11 | 96 | 2.05 | 1.20 | 5.3 |
| 4/23/2015 | 20:25:01 | 54.13 | 51.43 | 224 | 2.06 | 1.25 | 12.3 |
| 4/23/2015 | 20:25:42 | 54.46 | 51.76 | 5 | 2.05 | 1.29 | 0.2 |
| 4/23/2015 | 20:25:43 | 54.79 | 52.09 | 62 | 2.04 | 1.16 | 3.4 |
| 4/23/2015 | 20:25:44 | 55.12 | 52.42 | 187 | 2.06 | 1.24 | 10.3 |
| 4/23/2015 | 20:25:45 | 55.45 | 52.75 | 248 | 2.03 | 1.19 | 13.6 |
| 4/23/2015 | 20:25:47 | 55.77 | 53.07 | 237 | 2.05 | 1.16 | 12.9 |
| 4/23/2015 | 20:25:49 | 56.10 | 53.40 | 210 | 2.04 | 1.20 | 11.5 |
| 4/23/2015 | 20:25:57 | 56.43 | 53.73 | 82 | 2.02 | 1.26 | 4.5 |
| 4/23/2015 | 20:26:05 | 56.76 | 54.06 | 41 | 2.02 | 1.23 | 2.2 |
| 4/23/2015 | 20:26:15 | 57.09 | 54.39 | 32 | 2.01 | 1.18 | 1.7 |
| 4/23/2015 | 20:26:33 | 57.41 | 54.71 | 38 | 2.02 | 1.19 | 2.1 |
| 4/23/2015 | 20:26:43 | 57.74 | 55.04 | 35 | 2.03 | 1.44 | 1.9 |

## H294 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 20:20:38

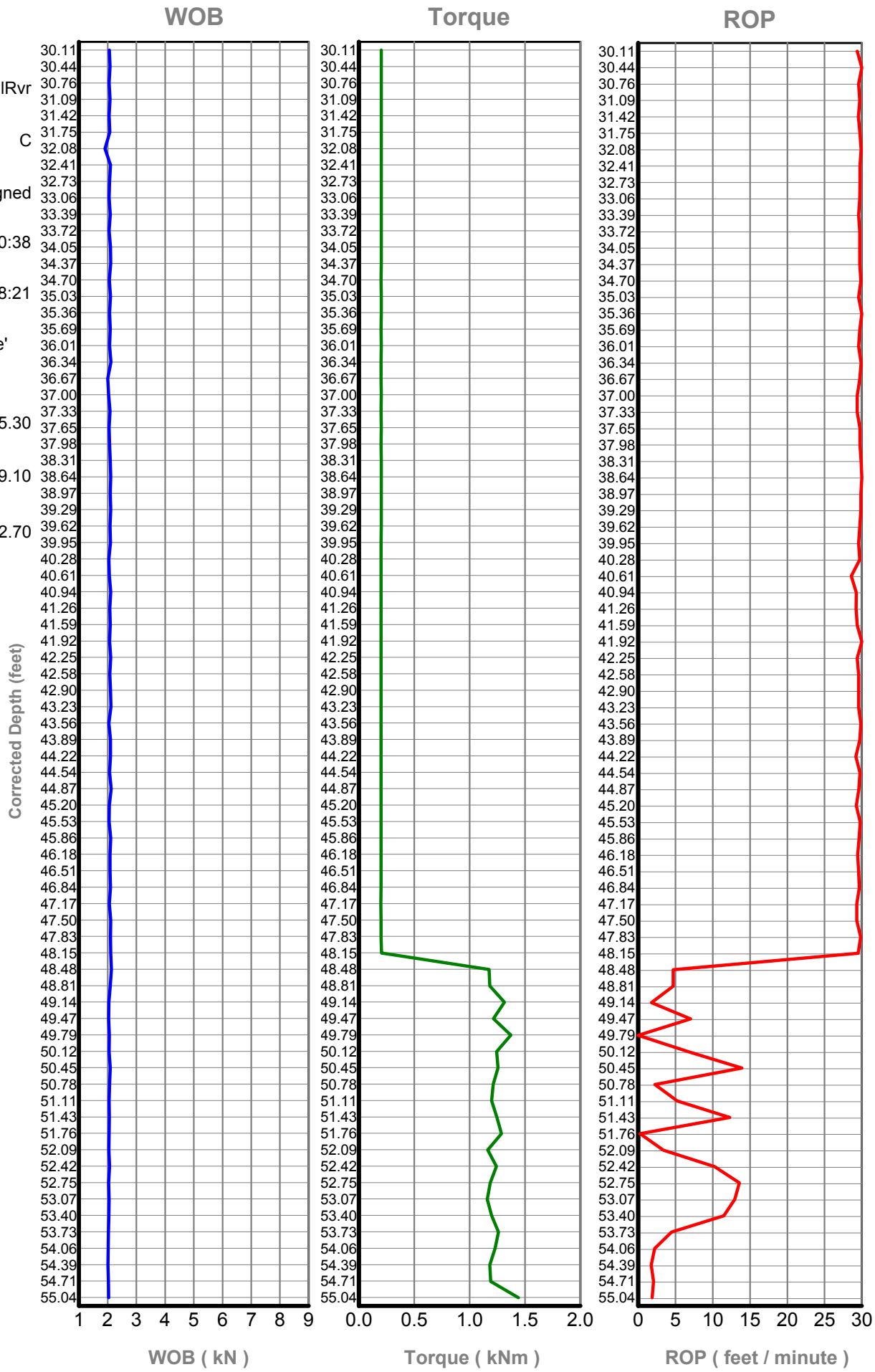
**End Date:**
4/23/2015 20:28:21

**Operator Note:**
'2.7 2.8 c Auto Complete'

**Northing:**
367,175.30

**Easting:**
251,679.10

**Tide (feet):**
2.70



## Hole: H295 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:41:17 | 30.51 | 30.11 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 11:41:18 | 30.84 | 30.44 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 11:41:18 | 31.17 | 30.77 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 11:41:19 | 31.50 | 31.10 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 11:41:19 | 31.82 | 31.42 | 948 | 0.39 | 0.32 | 51.8 |
| 4/23/2015 11:41:19 | 32.15 | 31.75 | 942 | 0.41 | 0.32 | 51.5 |
| 4/23/2015 11:41:20 | 32.48 | 32.08 | 942 | 0.41 | 0.32 | 51.5 |
| 4/23/2015 11:41:20 | 32.81 | 32.41 | 951 | 0.41 | 0.33 | 52.0 |
| 4/23/2015 11:41:20 | 33.14 | 32.74 | 942 | 0.41 | 0.33 | 51.5 |
| 4/23/2015 11:41:21 | 33.46 | 33.06 | 934 | 0.43 | 0.32 | 51.0 |
| 4/23/2015 11:41:21 | 33.79 | 33.39 | 922 | 0.42 | 0.33 | 50.4 |
| 4/23/2015 11:41:22 | 34.12 | 33.72 | 922 | 0.42 | 0.33 | 50.4 |
| 4/23/2015 11:41:22 | 34.45 | 34.05 | 911 | 0.43 | 0.32 | 49.8 |
| 4/23/2015 11:41:22 | 34.78 | 34.38 | 899 | 0.45 | 0.32 | 49.2 |
| 4/23/2015 11:41:23 | 35.11 | 34.71 | 893 | 0.43 | 0.33 | 48.8 |
| 4/23/2015 11:41:23 | 35.43 | 35.03 | 893 | 0.43 | 0.33 | 48.8 |
| 4/23/2015 11:41:23 | 35.76 | 35.36 | 875 | 0.43 | 0.33 | 47.9 |
| 4/23/2015 11:41:24 | 36.09 | 35.69 | 875 | 0.42 | 0.33 | 47.9 |
| 4/23/2015 11:41:24 | 36.42 | 36.02 | 882 | 0.41 | 0.33 | 48.2 |
| 4/23/2015 11:41:25 | 36.75 | 36.35 | 882 | 0.41 | 0.33 | 48.2 |
| 4/23/2015 11:41:25 | 37.07 | 36.67 | 885 | 0.41 | 0.33 | 48.4 |
| 4/23/2015 11:41:25 | 37.40 | 37.00 | 879 | 0.33 | 0.32 | 48.1 |
| 4/23/2015 11:41:26 | 37.73 | 37.33 | 885 | 0.33 | 0.32 | 48.4 |
| 4/23/2015 11:41:26 | 38.06 | 37.66 | 885 | 0.33 | 0.32 | 48.4 |
| 4/23/2015 11:41:26 | 38.39 | 37.99 | 915 | 0.32 | 0.32 | 50.0 |
| 4/23/2015 11:41:27 | 38.71 | 38.31 | 922 | 0.33 | 0.33 | 50.4 |
| 4/23/2015 11:41:28 | 39.04 | 38.64 | 931 | 0.38 | 0.32 | 50.9 |
| 4/23/2015 11:41:28 | 39.37 | 38.97 | 931 | 0.38 | 0.32 | 50.9 |
| 4/23/2015 11:41:28 | 39.70 | 39.30 | 927 | 0.35 | 0.32 | 50.7 |
| 4/23/2015 11:41:29 | 40.03 | 39.63 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 11:41:29 | 40.35 | 39.95 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 11:41:30 | 40.68 | 40.28 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 11:41:30 | 41.01 | 40.61 | 926 | 0.33 | 0.33 | 50.6 |
| 4/23/2015 11:41:30 | 41.34 | 40.94 | 932 | 0.35 | 0.32 | 51.0 |
| 4/23/2015 11:41:31 | 41.67 | 41.27 | 907 | 0.30 | 0.32 | 49.6 |
| 4/23/2015 11:41:31 | 41.99 | 41.59 | 907 | 0.30 | 0.32 | 49.6 |
| 4/23/2015 11:41:31 | 42.32 | 41.92 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 11:41:32 | 42.65 | 42.25 | 934 | 0.31 | 0.32 | 51.1 |
| 4/23/2015 11:41:32 | 42.98 | 42.58 | 934 | 0.31 | 0.32 | 51.1 |
| 4/23/2015 11:41:32 | 43.31 | 42.91 | 925 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 11:41:33 | 43.64 | 43.24 | 930 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:41:33 | 43.96 | 43.56 | 930 | 0.35 | 0.32 | 50.9 |
| 4/23/2015 11:41:34 | 44.29 | 43.89 | 930 | 0.35 | 0.32 | 50.9 |
| 4/23/2015 11:41:34 | 44.62 | 44.22 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:41:34 | 44.95 | 44.55 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 11:41:35 | 45.28 | 44.88 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 11:41:35 | 45.60 | 45.20 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 11:41:35 | 45.93 | 45.53 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 11:41:36 | 46.26 | 45.86 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:41:36 | 46.59 | 46.19 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:41:36 | 46.92 | 46.52 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:41:37 | 47.24 | 46.84 | 936 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 11:41:37 | 47.57 | 47.17 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 11:41:38 | 47.90 | 47.50 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 11:41:38 | 48.23 | 47.83 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 11:41:39 | 48.56 | 48.16 | 932 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:41:39 | 48.88 | 48.48 | 932 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:41:39 | 49.21 | 48.81 | 906 | 0.31 | 0.33 | 49.6 |
| 4/23/2015 11:41:44 | 49.54 | 49.14 | 67 | 4.33 | 0.39 | 3.7 |
| 4/23/2015 11:41:47 | 49.87 | 49.47 | 88 | 3.67 | 0.35 | 4.8 |
| 4/23/2015 11:41:48 | 50.20 | 49.80 | 163 | 2.93 | 0.34 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:41:48 | 50.53 | 50.13 | 291 | 3.08 | 0.36 | 15.9 |
| 4/23/2015 | 11:42:00 | 50.85 | 50.45 | 29 | 3.28 | 0.41 | 1.6 |
| 4/23/2015 | 11:42:10 | 51.18 | 50.78 | 30 | 2.96 | 0.39 | 1.6 |
| 4/23/2015 | 11:42:20 | 51.51 | 51.11 | 44 | 4.17 | 0.39 | 2.4 |
| 4/23/2015 | 11:42:26 | 51.76 | 51.36 | 40 | 3.28 | 0.41 | 2.2 |

## H295 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:39:00

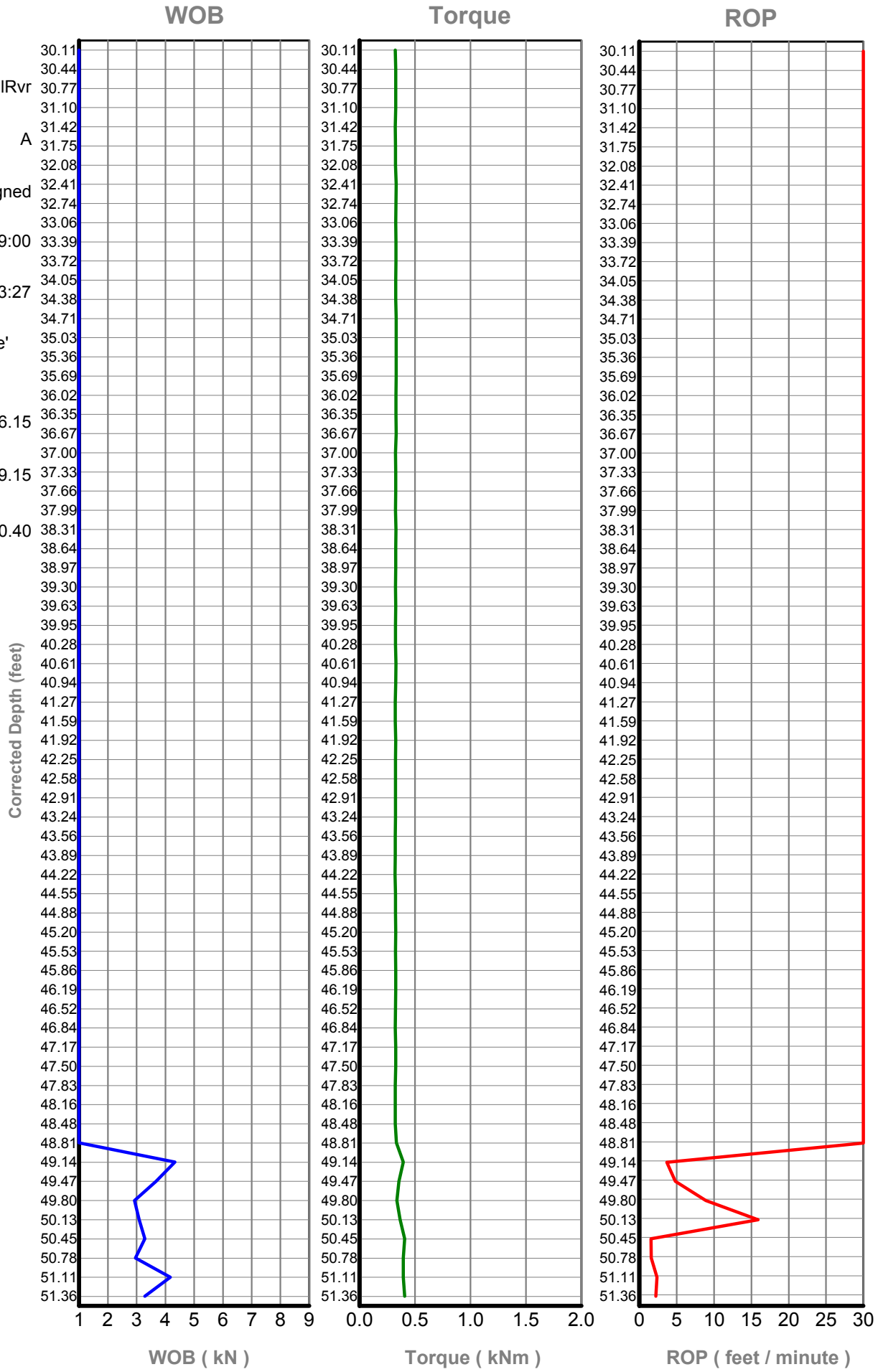
**End Date:**
4/23/2015 11:43:27

**Operator Note:**
'0.4 0.5 b Auto Complete'

**Northing:**
367,236.15

**Easting:**
251,749.15

**Tide (feet):**
0.40



## Hole: H296 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:45:21 | 30.51 | 30.11 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 11:45:22 | 30.84 | 30.44 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 11:45:22 | 31.17 | 30.77 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 11:45:22 | 31.50 | 31.10 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 11:45:23 | 31.82 | 31.42 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 11:45:23 | 32.15 | 31.75 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 11:45:23 | 32.48 | 32.08 | 957 | 0.34 | 0.32 | 52.3 |
| 4/23/2015 11:45:24 | 32.81 | 32.41 | 946 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 11:45:24 | 33.14 | 32.74 | 946 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 11:45:24 | 33.46 | 33.06 | 951 | 0.32 | 0.32 | 52.0 |
| 4/23/2015 11:45:25 | 33.79 | 33.39 | 955 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 11:45:25 | 34.12 | 33.72 | 955 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 11:45:25 | 34.45 | 34.05 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 11:45:26 | 34.78 | 34.38 | 957 | 0.34 | 0.32 | 52.4 |
| 4/23/2015 11:45:26 | 35.11 | 34.71 | 950 | 0.34 | 0.32 | 51.9 |
| 4/23/2015 11:45:27 | 35.43 | 35.03 | 950 | 0.34 | 0.32 | 51.9 |
| 4/23/2015 11:45:27 | 35.76 | 35.36 | 950 | 0.34 | 0.32 | 51.9 |
| 4/23/2015 11:45:28 | 36.09 | 35.69 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 11:45:28 | 36.42 | 36.02 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 11:45:29 | 36.75 | 36.35 | 937 | 0.34 | 0.32 | 51.2 |
| 4/23/2015 11:45:29 | 37.07 | 36.67 | 949 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 11:45:29 | 37.40 | 37.00 | 925 | 0.34 | 0.32 | 50.6 |
| 4/23/2015 11:45:30 | 37.73 | 37.33 | 925 | 0.34 | 0.32 | 50.6 |
| 4/23/2015 11:45:30 | 38.06 | 37.66 | 925 | 0.34 | 0.32 | 50.6 |
| 4/23/2015 11:45:30 | 38.39 | 37.99 | 938 | 0.34 | 0.32 | 51.3 |
| 4/23/2015 11:45:31 | 38.71 | 38.31 | 954 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 11:45:31 | 39.04 | 38.64 | 954 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 11:45:31 | 39.37 | 38.97 | 959 | 0.34 | 0.32 | 52.4 |
| 4/23/2015 11:45:32 | 39.70 | 39.30 | 943 | 0.35 | 0.32 | 51.6 |
| 4/23/2015 11:45:32 | 40.03 | 39.63 | 943 | 0.35 | 0.32 | 51.6 |
| 4/23/2015 11:45:32 | 40.35 | 39.95 | 971 | 0.33 | 0.32 | 53.1 |
| 4/23/2015 11:45:33 | 40.68 | 40.28 | 935 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 11:45:33 | 41.01 | 40.61 | 938 | 0.34 | 0.32 | 51.3 |
| 4/23/2015 11:45:34 | 41.34 | 40.94 | 938 | 0.34 | 0.32 | 51.3 |
| 4/23/2015 11:45:34 | 41.67 | 41.27 | 938 | 0.34 | 0.30 | 51.3 |
| 4/23/2015 11:45:34 | 41.99 | 41.59 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 11:45:35 | 42.32 | 41.92 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 11:45:35 | 42.65 | 42.25 | 943 | 0.34 | 0.33 | 51.6 |
| 4/23/2015 11:45:35 | 42.98 | 42.58 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 11:45:36 | 43.31 | 42.91 | 914 | 0.34 | 0.32 | 50.0 |
| 4/23/2015 11:45:36 | 43.64 | 43.24 | 914 | 0.34 | 0.32 | 50.0 |
| 4/23/2015 11:45:36 | 43.96 | 43.56 | 914 | 0.34 | 0.32 | 50.0 |
| 4/23/2015 11:45:37 | 44.29 | 43.89 | 960 | 0.34 | 0.32 | 52.5 |
| 4/23/2015 11:45:38 | 44.62 | 44.22 | 960 | 0.34 | 0.32 | 52.5 |
| 4/23/2015 11:45:37 | 44.95 | 44.55 | 939 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 11:45:38 | 45.28 | 44.88 | 939 | 0.34 | 0.32 | 51.3 |
| 4/23/2015 11:45:39 | 45.60 | 45.20 | 939 | 0.33 | 0.33 | 51.3 |
| 4/23/2015 11:45:39 | 45.93 | 45.53 | 939 | 0.33 | 0.33 | 51.3 |
| 4/23/2015 11:45:39 | 46.26 | 45.86 | 940 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 11:45:40 | 46.59 | 46.19 | 949 | 0.34 | 0.32 | 51.9 |
| 4/23/2015 11:45:40 | 46.92 | 46.52 | 940 | 0.34 | 0.33 | 51.4 |
| 4/23/2015 11:45:41 | 47.24 | 46.84 | 940 | 0.34 | 0.33 | 51.4 |
| 4/23/2015 11:45:41 | 47.57 | 47.17 | 940 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 11:45:41 | 47.90 | 47.50 | 929 | 0.34 | 0.33 | 50.8 |
| 4/23/2015 11:45:42 | 48.23 | 47.83 | 929 | 0.34 | 0.33 | 50.8 |
| 4/23/2015 11:45:42 | 48.56 | 48.16 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:45:42 | 48.88 | 48.48 | 935 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 11:45:43 | 49.21 | 48.81 | 935 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 11:45:43 | 49.54 | 49.14 | 935 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 11:45:43 | 49.87 | 49.47 | 960 | 0.33 | 0.33 | 52.5 |
| 4/23/2015 11:45:44 | 50.20 | 49.80 | 931 | 0.33 | 0.33 | 50.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:45:44 | 50.53 | 50.13 | 929 | 0.33 | 0.33 | 50.8 |
| 4/23/2015 | 11:45:45 | 50.85 | 50.45 | 929 | 0.33 | 0.33 | 50.8 |
| 4/23/2015 | 11:45:45 | 51.18 | 50.78 | 910 | 0.35 | 0.33 | 49.8 |
| 4/23/2015 | 11:45:46 | 51.51 | 51.11 | 866 | 0.28 | 0.24 | 47.4 |
| 4/23/2015 | 11:45:52 | 51.84 | 51.44 | 6 | 3.94 | 0.36 | 0.3 |
| 4/23/2015 | 11:45:59 | 52.17 | 51.77 | 51 | 3.62 | 0.40 | 2.8 |
| 4/23/2015 | 11:46:05 | 52.49 | 52.09 | 56 | 3.46 | 0.39 | 3.0 |
| 4/23/2015 | 11:46:12 | 52.82 | 52.42 | 61 | 3.05 | 0.40 | 3.3 |
| 4/23/2015 | 11:46:20 | 53.14 | 52.74 | 39 | 4.05 | 0.40 | 2.2 |

## H296 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:43:47

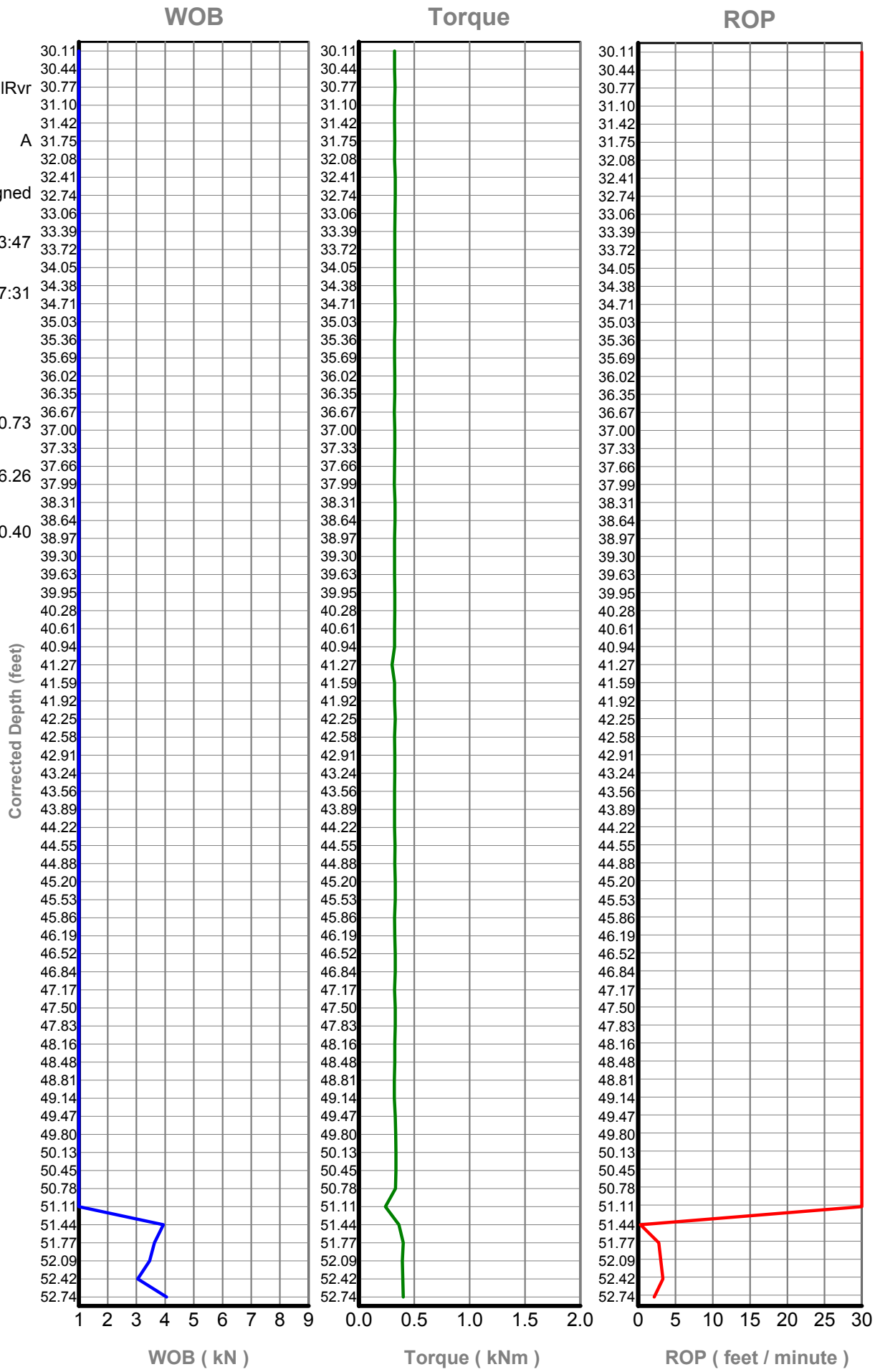
**End Date:**
4/23/2015 11:47:31

**Operator Note:**
'0.4 0.5 b Rock!'

**Northing:**
367,270.73

**Easting:**
251,796.26

**Tide (feet):**
0.40



## Hole: H297 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:42:19 | 30.51 | 30.11 | 888 | 2.19 | 0.31 | 48.6 |
| 4/23/2015 11:42:19 | 30.84 | 30.44 | 876 | 2.18 | 0.31 | 47.9 |
| 4/23/2015 11:42:20 | 31.17 | 30.77 | 845 | 2.19 | 0.31 | 46.2 |
| 4/23/2015 11:42:20 | 31.50 | 31.10 | 845 | 2.19 | 0.31 | 46.2 |
| 4/23/2015 11:42:21 | 31.82 | 31.42 | 841 | 2.21 | 0.31 | 46.0 |
| 4/23/2015 11:42:21 | 32.15 | 31.75 | 838 | 2.19 | 0.31 | 45.8 |
| 4/23/2015 11:42:22 | 32.48 | 32.08 | 824 | 2.20 | 0.31 | 45.1 |
| 4/23/2015 11:42:22 | 32.81 | 32.41 | 824 | 2.18 | 0.30 | 45.1 |
| 4/23/2015 11:42:23 | 33.14 | 32.74 | 832 | 2.20 | 0.30 | 45.5 |
| 4/23/2015 11:42:23 | 33.46 | 33.06 | 832 | 2.20 | 0.30 | 45.5 |
| 4/23/2015 11:42:23 | 33.79 | 33.39 | 837 | 2.23 | 0.31 | 45.7 |
| 4/23/2015 11:42:24 | 34.12 | 33.72 | 826 | 2.21 | 0.31 | 45.2 |
| 4/23/2015 11:42:24 | 34.45 | 34.05 | 820 | 2.21 | 0.31 | 44.9 |
| 4/23/2015 11:42:25 | 34.78 | 34.38 | 829 | 2.18 | 0.30 | 45.3 |
| 4/23/2015 11:42:25 | 35.11 | 34.71 | 815 | 2.19 | 0.30 | 44.6 |
| 4/23/2015 11:42:26 | 35.43 | 35.03 | 815 | 2.19 | 0.30 | 44.6 |
| 4/23/2015 11:42:26 | 35.76 | 35.36 | 812 | 2.21 | 0.30 | 44.4 |
| 4/23/2015 11:42:26 | 36.09 | 35.69 | 796 | 2.20 | 0.31 | 43.5 |
| 4/23/2015 11:42:27 | 36.42 | 36.02 | 796 | 2.20 | 0.30 | 43.5 |
| 4/23/2015 11:42:27 | 36.75 | 36.35 | 805 | 2.19 | 0.31 | 44.0 |
| 4/23/2015 11:42:28 | 37.07 | 36.67 | 808 | 2.19 | 0.30 | 44.2 |
| 4/23/2015 11:42:28 | 37.40 | 37.00 | 808 | 2.19 | 0.30 | 44.2 |
| 4/23/2015 11:42:28 | 37.73 | 37.33 | 809 | 2.19 | 0.30 | 44.2 |
| 4/23/2015 11:42:29 | 38.06 | 37.66 | 812 | 2.19 | 0.30 | 44.4 |
| 4/23/2015 11:42:30 | 38.39 | 37.99 | 818 | 2.20 | 0.30 | 44.8 |
| 4/23/2015 11:42:30 | 38.71 | 38.31 | 802 | 2.20 | 0.31 | 43.9 |
| 4/23/2015 11:42:30 | 39.04 | 38.64 | 802 | 2.19 | 0.32 | 43.9 |
| 4/23/2015 11:42:31 | 39.37 | 38.97 | 802 | 2.19 | 0.32 | 43.9 |
| 4/23/2015 11:42:31 | 39.70 | 39.30 | 818 | 2.20 | 0.31 | 44.7 |
| 4/23/2015 11:42:32 | 40.03 | 39.63 | 820 | 2.20 | 0.31 | 44.8 |
| 4/23/2015 11:42:32 | 40.35 | 39.95 | 810 | 2.21 | 0.30 | 44.3 |
| 4/23/2015 11:42:33 | 40.68 | 40.28 | 829 | 2.19 | 0.30 | 45.3 |
| 4/23/2015 11:42:33 | 41.01 | 40.61 | 843 | 2.19 | 0.30 | 46.1 |
| 4/23/2015 11:42:34 | 41.34 | 40.94 | 843 | 2.19 | 0.30 | 46.1 |
| 4/23/2015 11:42:34 | 41.67 | 41.27 | 827 | 2.19 | 0.30 | 45.2 |
| 4/23/2015 11:42:34 | 41.99 | 41.59 | 824 | 2.20 | 0.30 | 45.1 |
| 4/23/2015 11:42:35 | 42.32 | 41.92 | 829 | 2.20 | 0.30 | 45.3 |
| 4/23/2015 11:42:35 | 42.65 | 42.25 | 827 | 2.20 | 0.30 | 45.2 |
| 4/23/2015 11:42:36 | 42.98 | 42.58 | 821 | 2.20 | 0.31 | 44.9 |
| 4/23/2015 11:42:36 | 43.31 | 42.91 | 821 | 2.20 | 0.31 | 44.9 |
| 4/23/2015 11:42:36 | 43.64 | 43.24 | 824 | 2.19 | 0.30 | 45.1 |
| 4/23/2015 11:42:37 | 43.96 | 43.56 | 819 | 2.18 | 0.31 | 44.8 |
| 4/23/2015 11:42:37 | 44.29 | 43.89 | 822 | 2.20 | 0.31 | 45.0 |
| 4/23/2015 11:42:38 | 44.62 | 44.22 | 825 | 2.19 | 0.31 | 45.1 |
| 4/23/2015 11:42:38 | 44.95 | 44.55 | 825 | 2.20 | 0.31 | 45.1 |
| 4/23/2015 11:42:39 | 45.28 | 44.88 | 825 | 2.20 | 0.31 | 45.1 |
| 4/23/2015 11:42:39 | 45.60 | 45.20 | 817 | 2.20 | 0.30 | 44.7 |
| 4/23/2015 11:42:39 | 45.93 | 45.53 | 822 | 2.20 | 0.30 | 45.0 |
| 4/23/2015 11:42:40 | 46.26 | 45.86 | 819 | 2.18 | 0.31 | 44.8 |
| 4/23/2015 11:42:40 | 46.59 | 46.19 | 819 | 2.19 | 0.30 | 44.8 |
| 4/23/2015 11:42:41 | 46.92 | 46.52 | 813 | 2.21 | 0.30 | 44.4 |
| 4/23/2015 11:42:42 | 47.24 | 46.84 | 813 | 2.21 | 0.30 | 44.4 |
| 4/23/2015 11:42:42 | 47.57 | 47.17 | 823 | 2.21 | 0.30 | 45.0 |
| 4/23/2015 11:42:42 | 47.90 | 47.50 | 812 | 2.20 | 0.30 | 44.4 |
| 4/23/2015 11:42:43 | 48.23 | 47.83 | 824 | 2.08 | 0.30 | 45.0 |
| 4/23/2015 11:42:43 | 48.56 | 48.16 | 829 | 2.19 | 0.30 | 45.3 |
| 4/23/2015 11:42:49 | 48.88 | 48.48 | 9 | 2.15 | 1.05 | 0.5 |
| 4/23/2015 11:42:50 | 49.21 | 48.81 | 180 | 2.21 | 1.06 | 9.8 |
| 4/23/2015 11:42:51 | 49.54 | 49.14 | 268 | 2.22 | 1.06 | 14.7 |
| 4/23/2015 11:42:52 | 49.87 | 49.47 | 437 | 2.23 | 1.08 | 23.9 |
| 4/23/2015 11:42:53 | 50.20 | 49.80 | 440 | 2.24 | 1.08 | 24.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:42:53 | 50.53 | 50.13 | 457 | 2.22 | 1.08 | 25.0 |
| 4/23/2015 | 11:42:54 | 50.85 | 50.45 | 488 | 2.20 | 1.08 | 26.7 |
| 4/23/2015 | 11:42:54 | 51.18 | 50.78 | 541 | 2.23 | 1.08 | 29.6 |
| 4/23/2015 | 11:42:55 | 51.51 | 51.11 | 579 | 2.22 | 1.08 | 31.6 |
| 4/23/2015 | 11:42:55 | 51.84 | 51.44 | 623 | 2.23 | 1.07 | 34.1 |
| 4/23/2015 | 11:42:56 | 52.17 | 51.77 | 650 | 2.23 | 1.07 | 35.6 |
| 4/23/2015 | 11:42:56 | 52.49 | 52.09 | 669 | 2.21 | 1.07 | 36.6 |
| 4/23/2015 | 11:42:57 | 52.82 | 52.42 | 662 | 2.23 | 1.06 | 36.2 |
| 4/23/2015 | 11:42:58 | 53.15 | 52.75 | 658 | 2.22 | 1.05 | 36.0 |
| 4/23/2015 | 11:42:58 | 53.48 | 53.08 | 663 | 2.10 | 1.08 | 36.3 |
| 4/23/2015 | 11:42:59 | 53.81 | 53.41 | 648 | 2.00 | 1.07 | 35.4 |
| 4/23/2015 | 11:42:59 | 54.13 | 53.73 | 648 | 2.00 | 1.04 | 35.4 |
| 4/23/2015 | 11:43:00 | 54.46 | 54.06 | 650 | 2.00 | 1.03 | 35.6 |
| 4/23/2015 | 11:43:00 | 54.79 | 54.39 | 653 | 1.81 | 1.03 | 35.7 |
| 4/23/2015 | 11:43:01 | 55.12 | 54.72 | 653 | 1.80 | 1.03 | 35.7 |
| 4/23/2015 | 11:43:02 | 55.45 | 55.05 | 656 | 1.79 | 1.05 | 35.9 |
| 4/23/2015 | 11:43:02 | 55.77 | 55.37 | 626 | 1.81 | 1.03 | 34.2 |
| 4/23/2015 | 11:43:15 | 55.98 | 55.58 | 0 | 1.28 | 0.94 | 0.0 |

## H297 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:41:06

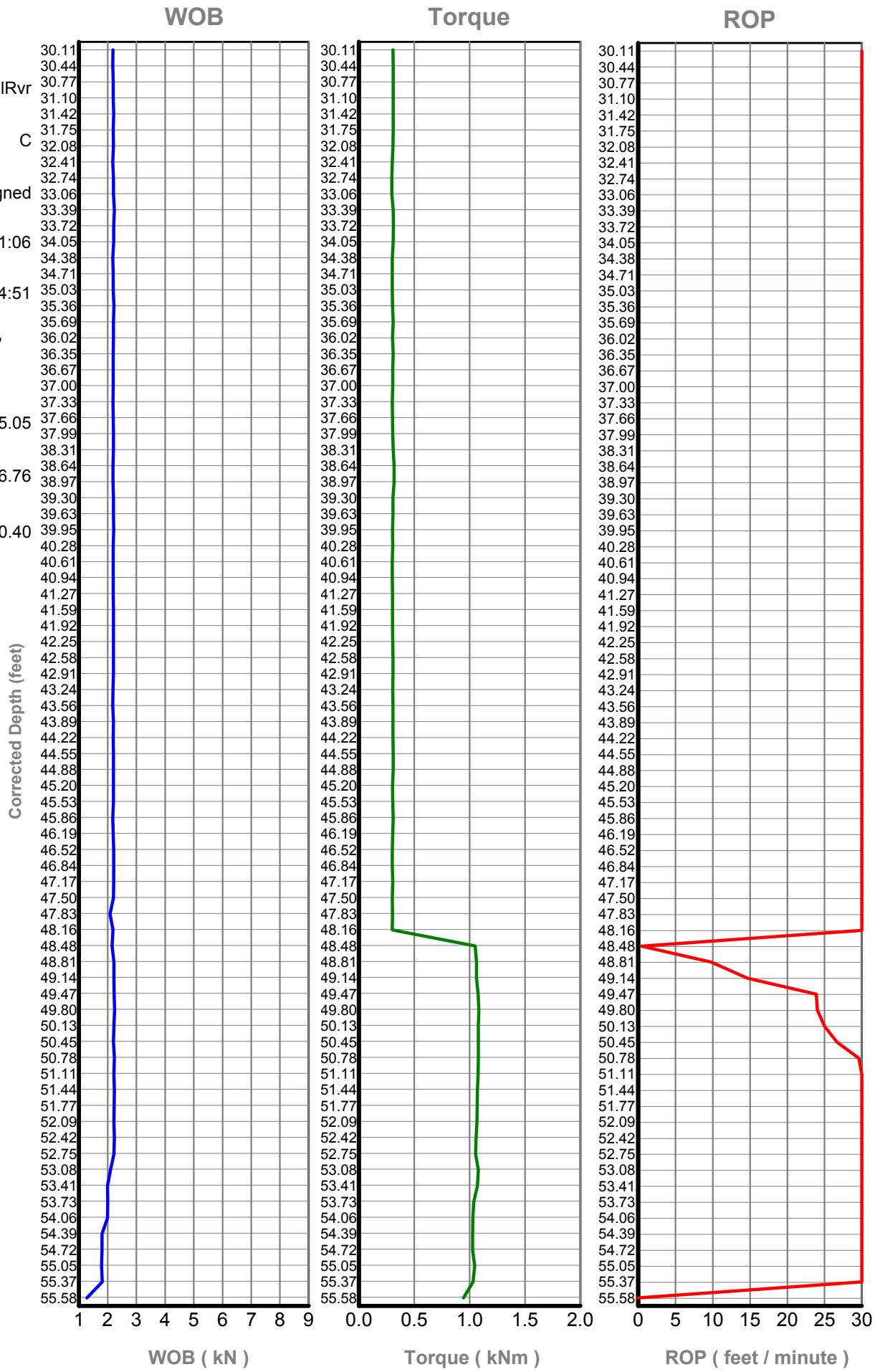
**End Date:**
4/23/2015 11:44:51

**Operator Note:**
'0.4 .5 C Auto Complete'

**Northing:**
367,315.05

**Easting:**
251,856.76

**Tide (feet):**
0.40



## Hole: H298 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:14:33 | 31.82 | 30.22 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/27/2015 3:14:34 | 32.15 | 30.55 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/27/2015 3:14:34 | 32.48 | 30.88 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/27/2015 3:14:35 | 32.81 | 31.21 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/27/2015 3:14:35 | 33.14 | 31.54 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/27/2015 3:14:35 | 33.46 | 31.86 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/27/2015 3:14:35 | 33.79 | 32.19 | 1,007 | 0.33 | 0.32 | 55.1 |
| 4/27/2015 3:14:36 | 34.12 | 32.52 | 1,007 | 0.33 | 0.32 | 55.1 |
| 4/27/2015 3:14:36 | 34.45 | 32.85 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/27/2015 3:14:37 | 34.78 | 33.18 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:14:37 | 35.11 | 33.51 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:14:37 | 35.43 | 33.83 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:14:38 | 35.76 | 34.16 | 1,011 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:14:38 | 36.09 | 34.49 | 1,011 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:14:38 | 36.42 | 34.82 | 1,036 | 0.33 | 0.32 | 56.7 |
| 4/27/2015 3:14:39 | 36.75 | 35.15 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:14:39 | 37.07 | 35.47 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/27/2015 3:14:39 | 37.40 | 35.80 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 3:14:40 | 37.73 | 36.13 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:14:40 | 38.06 | 36.46 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:14:40 | 38.39 | 36.79 | 990 | 0.33 | 0.32 | 54.1 |
| 4/27/2015 3:14:41 | 38.71 | 37.11 | 990 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 3:14:41 | 39.04 | 37.44 | 990 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 3:14:41 | 39.37 | 37.77 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 3:14:42 | 39.70 | 38.10 | 1,037 | 0.34 | 0.32 | 56.7 |
| 4/27/2015 3:14:42 | 40.03 | 38.43 | 1,037 | 0.34 | 0.32 | 56.7 |
| 4/27/2015 3:14:42 | 40.35 | 38.75 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:14:43 | 40.68 | 39.08 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 3:14:44 | 41.01 | 39.41 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 3:14:43 | 41.34 | 39.74 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:14:44 | 41.67 | 40.07 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:14:45 | 41.99 | 40.39 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:14:44 | 42.32 | 40.72 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/27/2015 3:14:45 | 42.65 | 41.05 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/27/2015 3:14:45 | 42.98 | 41.38 | 1,004 | 0.33 | 0.33 | 54.9 |
| 4/27/2015 3:14:46 | 43.31 | 41.71 | 1,014 | 0.33 | 0.32 | 55.4 |
| 4/27/2015 3:14:46 | 43.64 | 42.04 | 1,007 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 3:14:46 | 43.96 | 42.36 | 1,007 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 3:14:47 | 44.29 | 42.69 | 1,007 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 3:14:47 | 44.62 | 43.02 | 1,010 | 0.33 | 0.33 | 55.2 |
| 4/27/2015 3:14:48 | 44.95 | 43.35 | 1,010 | 0.33 | 0.33 | 55.2 |
| 4/27/2015 3:14:48 | 45.28 | 43.68 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 3:14:48 | 45.60 | 44.00 | 1,016 | 0.33 | 0.34 | 55.5 |
| 4/27/2015 3:14:49 | 45.93 | 44.33 | 1,016 | 0.33 | 0.34 | 55.5 |
| 4/27/2015 3:14:49 | 46.26 | 44.66 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:14:49 | 46.59 | 44.99 | 996 | 0.33 | 0.33 | 54.5 |
| 4/27/2015 3:14:50 | 46.92 | 45.32 | 996 | 0.33 | 0.33 | 54.5 |
| 4/27/2015 3:14:50 | 47.24 | 45.64 | 1,019 | 0.31 | 0.35 | 55.7 |
| 4/27/2015 3:14:50 | 47.57 | 45.97 | 1,019 | 0.31 | 0.39 | 55.7 |
| 4/27/2015 3:14:57 | 47.90 | 46.30 | 112 | 3.67 | 0.40 | 6.1 |
| 4/27/2015 3:15:06 | 48.23 | 46.63 | 0 | 2.94 | 0.37 | 0.0 |
| 4/27/2015 3:15:10 | 48.56 | 46.96 | 111 | 3.58 | 0.38 | 6.1 |
| 4/27/2015 3:15:11 | 48.88 | 47.28 | 237 | 4.73 | 0.38 | 12.9 |
| 4/27/2015 3:15:13 | 49.21 | 47.61 | 241 | 3.60 | 0.36 | 13.2 |
| 4/27/2015 3:15:13 | 49.54 | 47.94 | 267 | 2.62 | 0.35 | 14.6 |
| 4/27/2015 3:15:14 | 49.87 | 48.27 | 358 | 2.97 | 0.36 | 19.6 |
| 4/27/2015 3:15:14 | 50.20 | 48.60 | 457 | 2.22 | 0.34 | 25.0 |
| 4/27/2015 3:15:15 | 50.53 | 48.93 | 580 | 3.51 | 0.36 | 31.7 |
| 4/27/2015 3:15:15 | 50.85 | 49.25 | 657 | 2.61 | 0.35 | 35.9 |
| 4/27/2015 3:15:16 | 51.18 | 49.58 | 690 | 2.70 | 0.36 | 37.7 |
| 4/27/2015 3:15:16 | 51.51 | 49.91 | 682 | 3.18 | 0.36 | 37.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:15:17 | 51.84 | 50.24 | 676 | 2.68 | 0.36 | 37.0 |
| 4/27/2015 | 3:15:18 | 52.17 | 50.57 | 642 | 2.68 | 0.36 | 35.1 |
| 4/27/2015 | 3:15:18 | 52.49 | 50.89 | 631 | 3.03 | 0.36 | 34.5 |
| 4/27/2015 | 3:15:19 | 52.82 | 51.22 | 597 | 3.11 | 0.37 | 32.6 |
| 4/27/2015 | 3:15:20 | 53.15 | 51.55 | 496 | 3.61 | 0.40 | 27.1 |
| 4/27/2015 | 3:15:26 | 53.48 | 51.88 | 81 | 2.96 | 0.38 | 4.4 |
| 4/27/2015 | 3:15:27 | 53.81 | 52.21 | 220 | 3.01 | 0.39 | 12.0 |
| 4/27/2015 | 3:15:30 | 54.13 | 52.53 | 178 | 3.24 | 0.38 | 9.7 |
| 4/27/2015 | 3:15:32 | 54.46 | 52.86 | 193 | 3.81 | 0.39 | 10.6 |
| 4/27/2015 | 3:15:37 | 54.79 | 53.19 | 64 | 3.20 | 0.40 | 3.5 |
| 4/27/2015 | 3:15:43 | 55.12 | 53.52 | 61 | 3.71 | 0.40 | 3.3 |
| 4/27/2015 | 3:15:50 | 55.45 | 53.85 | 49 | 3.31 | 0.40 | 2.7 |
| 4/27/2015 | 3:15:55 | 55.73 | 54.13 | 58 | 3.95 | 0.40 | 3.2 |

## H298 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:12:41

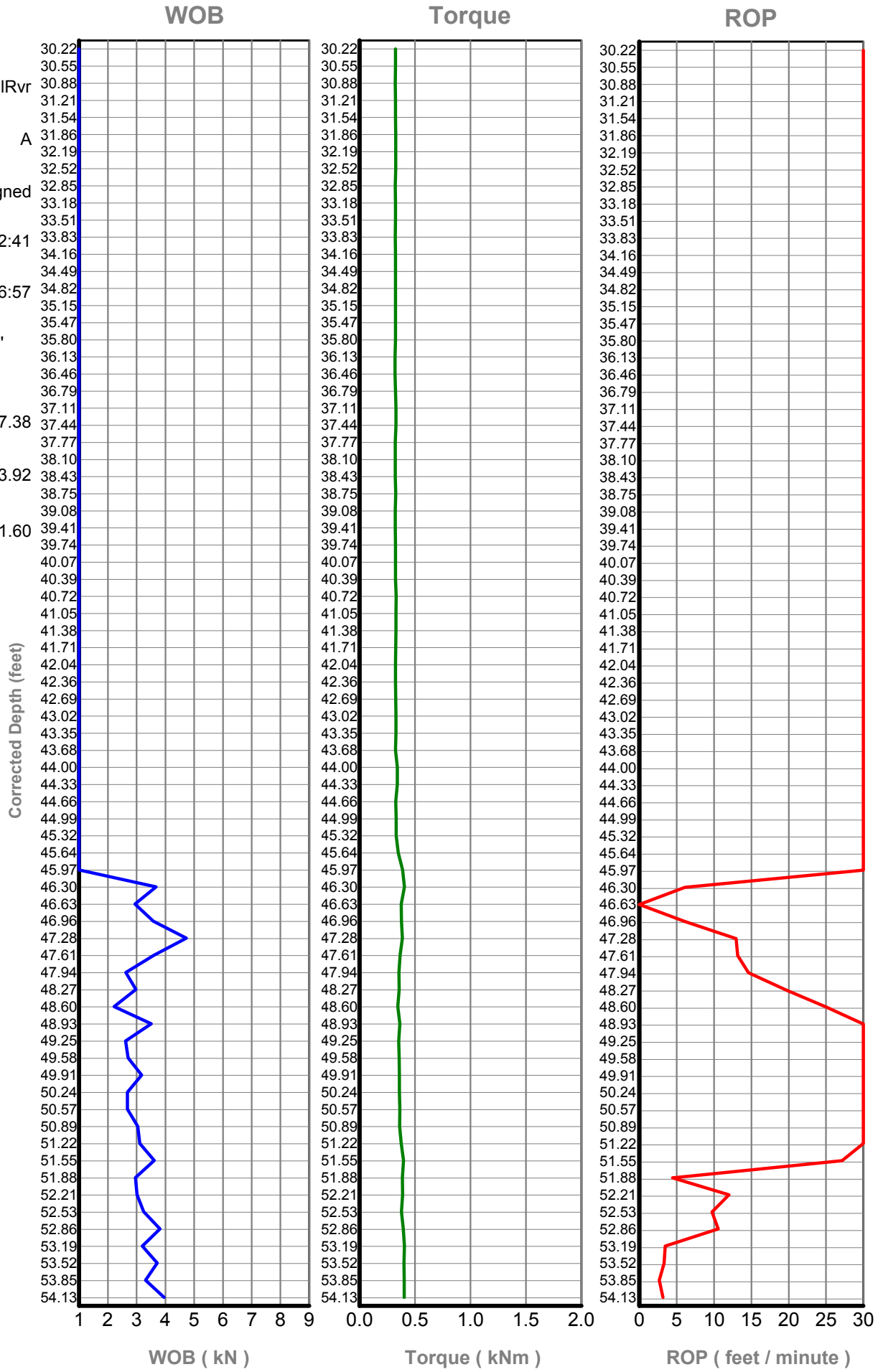
**End Date:**
4/27/2015 3:16:57

**Operator Note:**
'1.6 1.4b Auto Complete'

**Northing:**
365,337.38

**Easting:**
249,503.92

**Tide (feet):**
1.60



## Hole: H299 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:19:37 | 31.82 | 30.22 | 1,038 | 0.33 | 0.31 | 56.8 |
| 4/27/2015 3:19:37 | 32.15 | 30.55 | 1,037 | 0.33 | 0.32 | 56.7 |
| 4/27/2015 3:19:37 | 32.48 | 30.88 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/27/2015 3:19:38 | 32.81 | 31.21 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/27/2015 3:19:38 | 33.14 | 31.54 | 1,066 | 0.33 | 0.32 | 58.3 |
| 4/27/2015 3:19:39 | 33.46 | 31.86 | 1,050 | 0.34 | 0.32 | 57.4 |
| 4/27/2015 3:19:39 | 33.79 | 32.19 | 1,050 | 0.34 | 0.32 | 57.4 |
| 4/27/2015 3:19:39 | 34.12 | 32.52 | 1,040 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:19:40 | 34.45 | 32.85 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/27/2015 3:19:40 | 34.78 | 33.18 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/27/2015 3:19:40 | 35.11 | 33.51 | 1,056 | 0.33 | 0.32 | 57.7 |
| 4/27/2015 3:19:41 | 35.43 | 33.83 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/27/2015 3:19:41 | 35.76 | 34.16 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/27/2015 3:19:41 | 36.09 | 34.49 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:19:42 | 36.42 | 34.82 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:19:42 | 36.75 | 35.15 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:19:42 | 37.07 | 35.47 | 1,040 | 0.33 | 0.31 | 56.9 |
| 4/27/2015 3:19:43 | 37.40 | 35.80 | 1,035 | 0.33 | 0.31 | 56.6 |
| 4/27/2015 3:19:43 | 37.73 | 36.13 | 1,035 | 0.33 | 0.31 | 56.6 |
| 4/27/2015 3:19:43 | 38.06 | 36.46 | 1,028 | 0.33 | 0.32 | 56.2 |
| 4/27/2015 3:19:44 | 38.39 | 36.79 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:19:44 | 38.71 | 37.11 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:19:44 | 39.04 | 37.44 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/27/2015 3:19:45 | 39.37 | 37.77 | 1,035 | 0.33 | 0.31 | 56.6 |
| 4/27/2015 3:19:45 | 39.70 | 38.10 | 1,035 | 0.33 | 0.31 | 56.6 |
| 4/27/2015 3:19:45 | 40.03 | 38.43 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 3:19:46 | 40.35 | 38.75 | 1,021 | 0.33 | 0.31 | 55.8 |
| 4/27/2015 3:19:46 | 40.68 | 39.08 | 1,021 | 0.33 | 0.31 | 55.8 |
| 4/27/2015 3:19:46 | 41.01 | 39.41 | 1,032 | 0.33 | 0.31 | 56.4 |
| 4/27/2015 3:19:47 | 41.34 | 39.74 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:19:48 | 41.67 | 40.07 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/27/2015 3:19:47 | 41.99 | 40.39 | 1,022 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:19:48 | 42.32 | 40.72 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/27/2015 3:19:49 | 42.65 | 41.05 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/27/2015 3:19:49 | 42.98 | 41.38 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/27/2015 3:19:49 | 43.31 | 41.71 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:19:50 | 43.64 | 42.04 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 3:19:50 | 43.96 | 42.36 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/27/2015 3:19:50 | 44.29 | 42.69 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/27/2015 3:19:50 | 44.62 | 43.02 | 1,026 | 0.33 | 0.31 | 56.1 |
| 4/27/2015 3:19:51 | 44.95 | 43.35 | 1,034 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:19:51 | 45.28 | 43.68 | 1,034 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:19:51 | 45.60 | 44.00 | 1,029 | 0.33 | 0.32 | 56.2 |
| 4/27/2015 3:19:52 | 45.93 | 44.33 | 1,014 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 3:19:52 | 46.26 | 44.66 | 1,014 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 3:19:52 | 46.59 | 44.99 | 1,049 | 0.30 | 0.35 | 57.4 |
| 4/27/2015 3:19:57 | 46.92 | 45.32 | 79 | 3.58 | 0.38 | 4.3 |
| 4/27/2015 3:19:59 | 47.24 | 45.64 | 269 | 5.09 | 0.43 | 14.7 |
| 4/27/2015 3:20:05 | 47.57 | 45.97 | 0 | 3.44 | 0.36 | 0.0 |
| 4/27/2015 3:20:06 | 47.90 | 46.30 | 94 | 3.55 | 0.36 | 5.1 |
| 4/27/2015 3:20:07 | 48.23 | 46.63 | 314 | 3.40 | 0.36 | 17.2 |
| 4/27/2015 3:20:11 | 48.56 | 46.96 | 0 | 2.40 | 0.34 | 0.0 |
| 4/27/2015 3:20:12 | 48.88 | 47.28 | 117 | 3.16 | 0.38 | 6.4 |
| 4/27/2015 3:20:13 | 49.21 | 47.61 | 272 | 5.78 | 0.38 | 14.9 |
| 4/27/2015 3:20:15 | 49.54 | 47.94 | 213 | 4.97 | 0.39 | 11.7 |
| 4/27/2015 3:20:17 | 49.87 | 48.27 | 190 | 3.71 | 0.39 | 10.4 |
| 4/27/2015 3:20:19 | 50.20 | 48.60 | 179 | 2.61 | 0.37 | 9.8 |
| 4/27/2015 3:20:20 | 50.53 | 48.93 | 225 | 2.61 | 0.37 | 12.3 |
| 4/27/2015 3:20:21 | 50.85 | 49.25 | 358 | 3.48 | 0.39 | 19.6 |
| 4/27/2015 3:20:31 | 51.18 | 49.58 | 0 | 3.35 | 0.38 | 0.0 |
| 4/27/2015 3:20:32 | 51.51 | 49.91 | 130 | 3.52 | 0.38 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:20:34 | 51.84 | 50.24 | 216 | 3.94 | 0.39 | 11.8 |
| 4/27/2015 | 3:20:35 | 52.17 | 50.57 | 216 | 3.48 | 0.38 | 11.8 |
| 4/27/2015 | 3:20:37 | 52.49 | 50.89 | 220 | 4.01 | 0.39 | 12.0 |
| 4/27/2015 | 3:20:45 | 52.82 | 51.22 | 80 | 3.58 | 0.36 | 4.4 |
| 4/27/2015 | 3:20:46 | 53.15 | 51.55 | 180 | 2.88 | 0.36 | 9.8 |
| 4/27/2015 | 3:20:46 | 53.48 | 51.88 | 283 | 2.74 | 0.36 | 15.5 |
| 4/27/2015 | 3:20:50 | 53.81 | 52.21 | 0 | 2.41 | 0.35 | 0.0 |
| 4/27/2015 | 3:20:52 | 54.13 | 52.53 | 127 | 2.92 | 0.38 | 6.9 |
| 4/27/2015 | 3:20:53 | 54.46 | 52.86 | 266 | 2.57 | 0.37 | 14.6 |
| 4/27/2015 | 3:20:53 | 54.79 | 53.19 | 358 | 2.71 | 0.37 | 19.6 |
| 4/27/2015 | 3:20:54 | 55.12 | 53.52 | 402 | 2.67 | 0.37 | 22.0 |
| 4/27/2015 | 3:20:55 | 55.45 | 53.85 | 417 | 2.81 | 0.38 | 22.8 |
| 4/27/2015 | 3:20:56 | 55.77 | 54.17 | 367 | 2.92 | 0.38 | 20.0 |
| 4/27/2015 | 3:20:57 | 56.10 | 54.50 | 324 | 2.85 | 0.38 | 17.7 |
| 4/27/2015 | 3:20:59 | 56.43 | 54.83 | 279 | 3.61 | 0.37 | 15.3 |
| 4/27/2015 | 3:20:59 | 56.76 | 55.16 | 293 | 2.46 | 0.36 | 16.0 |
| 4/27/2015 | 3:21:00 | 57.09 | 55.49 | 356 | 4.34 | 0.37 | 19.5 |
| 4/27/2015 | 3:21:01 | 57.41 | 55.81 | 394 | 2.78 | 0.38 | 21.5 |
| 4/27/2015 | 3:21:05 | 57.74 | 56.14 | 61 | 4.27 | 0.40 | 3.3 |
| 4/27/2015 | 3:21:06 | 57.83 | 56.23 | 67 | 3.92 | 0.40 | 3.7 |

## H299 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:18:12

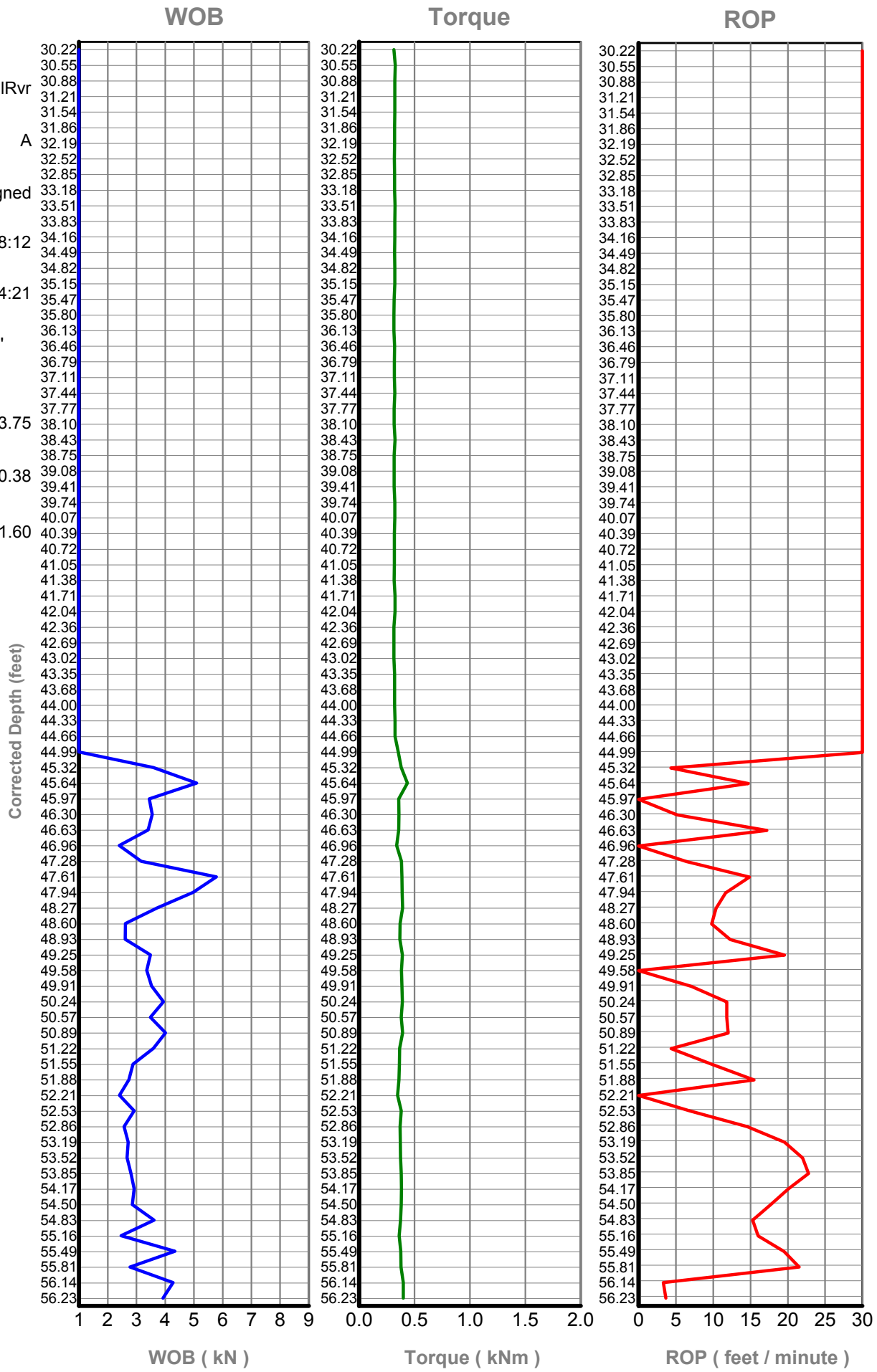
**End Date:**
4/27/2015 3:24:21

**Operator Note:**
'1.6 1.5b Auto Complete'

**Northing:**
365,373.75

**Easting:**
249,550.38

**Tide (feet):**
1.60



## Hole: H3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:26:49 | 36.42 | 30.22 | 448 | 1.76 | 0.32 | 24.5 |
| 4/27/2015 8:26:51 | 36.75 | 30.55 | 445 | 1.79 | 0.32 | 24.4 |
| 4/27/2015 8:26:52 | 37.07 | 30.87 | 445 | 1.79 | 0.32 | 24.4 |
| 4/27/2015 8:26:52 | 37.40 | 31.20 | 448 | 1.76 | 0.31 | 24.5 |
| 4/27/2015 8:26:52 | 37.73 | 31.53 | 445 | 1.75 | 0.32 | 24.3 |
| 4/27/2015 8:26:53 | 38.06 | 31.86 | 448 | 1.75 | 0.32 | 24.5 |
| 4/27/2015 8:26:54 | 38.39 | 32.19 | 440 | 1.79 | 0.31 | 24.1 |
| 4/27/2015 8:26:55 | 38.71 | 32.51 | 446 | 1.76 | 0.31 | 24.4 |
| 4/27/2015 8:26:55 | 39.04 | 32.84 | 449 | 1.76 | 0.31 | 24.5 |
| 4/27/2015 8:26:56 | 39.37 | 33.17 | 446 | 1.79 | 0.31 | 24.4 |
| 4/27/2015 8:26:57 | 39.70 | 33.50 | 451 | 1.75 | 0.32 | 24.6 |
| 4/27/2015 8:26:58 | 40.03 | 33.83 | 445 | 1.79 | 0.31 | 24.3 |
| 4/27/2015 8:26:59 | 40.35 | 34.15 | 448 | 1.79 | 0.31 | 24.5 |
| 4/27/2015 8:27:00 | 40.68 | 34.48 | 451 | 1.76 | 0.31 | 24.7 |
| 4/27/2015 8:27:00 | 41.01 | 34.81 | 445 | 1.74 | 0.32 | 24.3 |
| 4/27/2015 8:27:01 | 41.34 | 35.14 | 448 | 1.74 | 0.31 | 24.5 |
| 4/27/2015 8:27:02 | 41.67 | 35.47 | 448 | 1.73 | 0.32 | 24.5 |
| 4/27/2015 8:27:03 | 41.99 | 35.79 | 451 | 1.78 | 0.32 | 24.7 |
| 4/27/2015 8:27:04 | 42.32 | 36.12 | 444 | 1.73 | 0.31 | 24.3 |
| 4/27/2015 8:27:04 | 42.65 | 36.45 | 444 | 1.76 | 0.32 | 24.3 |
| 4/27/2015 8:27:05 | 42.98 | 36.78 | 442 | 1.76 | 0.31 | 24.2 |
| 4/27/2015 8:27:06 | 43.31 | 37.11 | 433 | 1.74 | 0.31 | 23.7 |
| 4/27/2015 8:27:07 | 43.64 | 37.44 | 447 | 1.75 | 0.31 | 24.4 |
| 4/27/2015 8:27:08 | 43.96 | 37.76 | 447 | 1.73 | 0.32 | 24.4 |
| 4/27/2015 8:27:09 | 44.29 | 38.09 | 446 | 1.78 | 0.32 | 24.4 |
| 4/27/2015 8:27:09 | 44.62 | 38.42 | 452 | 1.74 | 0.31 | 24.7 |
| 4/27/2015 8:27:10 | 44.95 | 38.75 | 445 | 1.79 | 0.32 | 24.4 |
| 4/27/2015 8:27:11 | 45.28 | 39.08 | 445 | 1.75 | 0.31 | 24.3 |
| 4/27/2015 8:27:12 | 45.60 | 39.40 | 448 | 1.76 | 0.32 | 24.5 |
| 4/27/2015 8:27:12 | 45.93 | 39.73 | 448 | 1.79 | 0.32 | 24.5 |
| 4/27/2015 8:27:13 | 46.26 | 40.06 | 448 | 1.76 | 0.32 | 24.5 |
| 4/27/2015 8:27:14 | 46.59 | 40.39 | 448 | 1.74 | 0.32 | 24.5 |
| 4/27/2015 8:27:15 | 46.92 | 40.72 | 448 | 1.75 | 0.32 | 24.5 |
| 4/27/2015 8:27:16 | 47.24 | 41.04 | 448 | 1.79 | 0.32 | 24.5 |
| 4/27/2015 8:27:16 | 47.57 | 41.37 | 448 | 1.75 | 0.31 | 24.5 |
| 4/27/2015 8:27:18 | 47.90 | 41.70 | 440 | 1.79 | 0.31 | 24.1 |
| 4/27/2015 8:27:18 | 48.23 | 42.03 | 439 | 1.76 | 0.32 | 24.0 |
| 4/27/2015 8:27:19 | 48.56 | 42.36 | 442 | 1.74 | 0.32 | 24.2 |
| 4/27/2015 8:27:20 | 48.88 | 42.68 | 445 | 1.78 | 0.32 | 24.3 |
| 4/27/2015 8:27:21 | 49.21 | 43.01 | 449 | 1.77 | 0.32 | 24.6 |
| 4/27/2015 8:27:21 | 49.54 | 43.34 | 454 | 1.77 | 0.32 | 24.8 |
| 4/27/2015 8:27:23 | 49.87 | 43.67 | 384 | 1.76 | 0.32 | 21.0 |
| 4/27/2015 8:27:40 | 50.20 | 44.00 | 0 | 1.76 | 1.12 | 0.0 |
| 4/27/2015 8:27:41 | 50.53 | 44.33 | 89 | 1.74 | 1.11 | 4.8 |
| 4/27/2015 8:27:42 | 50.85 | 44.65 | 245 | 1.79 | 1.11 | 13.4 |
| 4/27/2015 8:27:43 | 51.18 | 44.98 | 377 | 1.79 | 1.26 | 20.6 |
| 4/27/2015 8:27:44 | 51.51 | 45.31 | 349 | 1.77 | 1.13 | 19.1 |
| 4/27/2015 8:27:46 | 51.84 | 45.64 | 278 | 1.77 | 1.32 | 15.2 |
| 4/27/2015 8:28:08 | 52.17 | 45.97 | 29 | 1.78 | 1.44 | 1.6 |
| 4/27/2015 8:28:09 | 52.49 | 46.29 | 185 | 1.76 | 1.20 | 10.1 |
| 4/27/2015 8:28:11 | 52.82 | 46.62 | 241 | 1.78 | 1.08 | 13.2 |
| 4/27/2015 8:28:12 | 53.15 | 46.95 | 278 | 1.76 | 1.03 | 15.2 |
| 4/27/2015 8:29:29 | 53.48 | 47.28 | 12 | 1.76 | 1.07 | 0.6 |
| 4/27/2015 8:29:30 | 53.81 | 47.61 | 119 | 1.79 | 0.97 | 6.5 |
| 4/27/2015 8:29:31 | 54.13 | 47.93 | 172 | 1.78 | 1.12 | 9.4 |
| 4/27/2015 8:29:59 | 54.46 | 48.26 | 6 | 1.80 | 1.18 | 0.3 |
| 4/27/2015 8:30:04 | 54.79 | 48.59 | 69 | 1.79 | 1.10 | 3.8 |
| 4/27/2015 8:30:12 | 55.12 | 48.92 | 39 | 1.79 | 1.08 | 2.1 |
| 4/27/2015 8:30:18 | 55.45 | 49.25 | 64 | 1.80 | 1.12 | 3.5 |
| 4/27/2015 8:30:22 | 55.77 | 49.57 | 80 | 1.79 | 1.10 | 4.4 |
| 4/27/2015 8:30:29 | 56.10 | 49.90 | 57 | 1.79 | 1.18 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:30:32 | 56.23 | 50.03 | 49 | 1.80 | 1.32 | 2.7 |

## H3 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:21:41

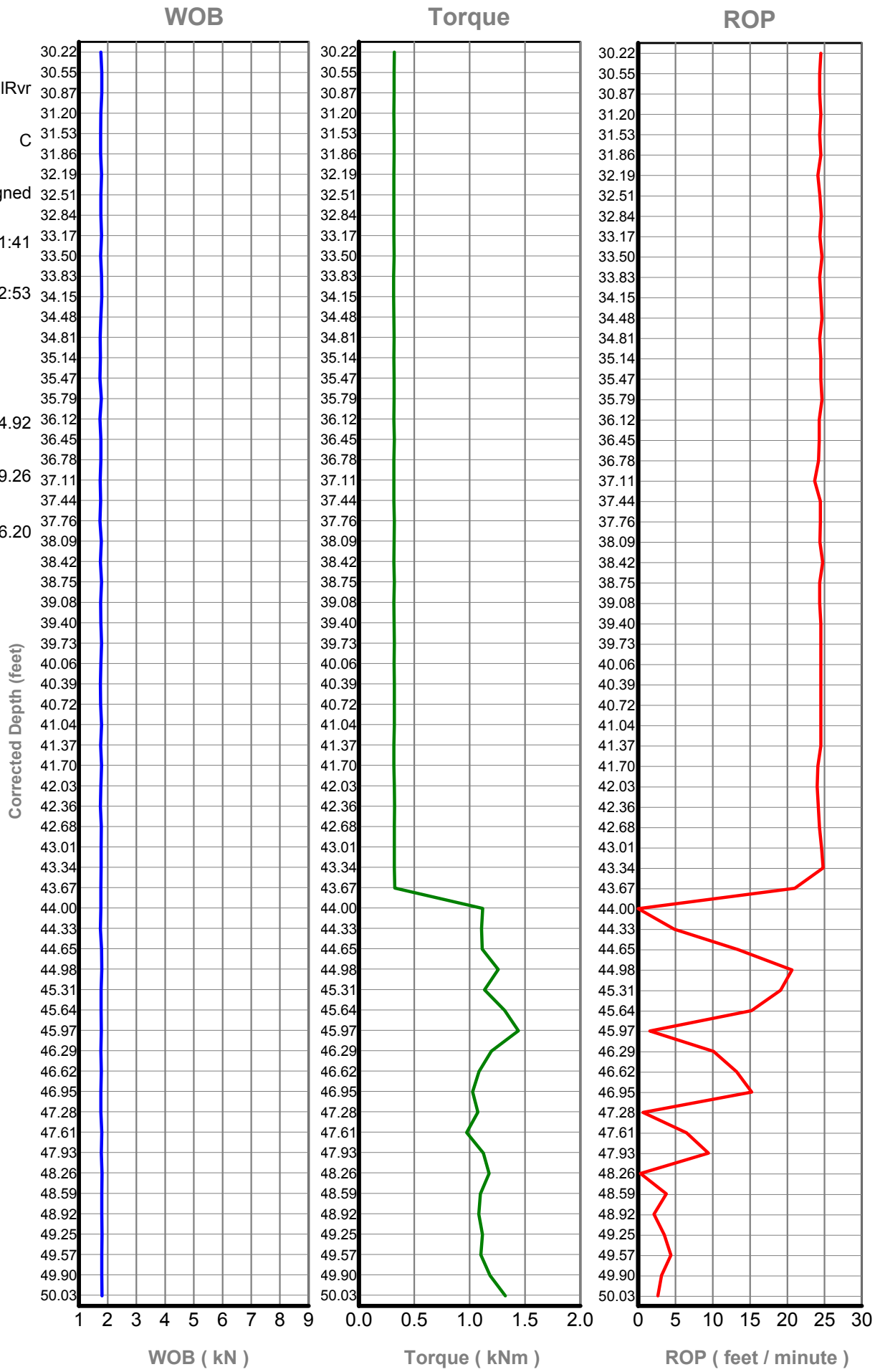
**End Date:**
4/27/2015 8:32:53

**Operator Note:**
'6.2 6.2 C Auto Complete'

**Northing:**
365,694.92

**Easting:**
249,109.26

**Tide (feet):**
6.20



## Hole: H30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 10:16:14 | 33.14 | 30.04 | 593 | 1.88 | 0.31 | 32.4 |
| 4/25/2015 10:16:14 | 33.46 | 30.36 | 593 | 1.89 | 0.31 | 32.4 |
| 4/25/2015 10:16:16 | 33.79 | 30.69 | 593 | 1.88 | 0.31 | 32.4 |
| 4/25/2015 10:16:16 | 34.12 | 31.02 | 594 | 1.90 | 0.31 | 32.5 |
| 4/25/2015 10:16:17 | 34.45 | 31.35 | 594 | 1.91 | 0.31 | 32.5 |
| 4/25/2015 10:16:17 | 34.78 | 31.68 | 591 | 1.88 | 0.31 | 32.3 |
| 4/25/2015 10:16:18 | 35.11 | 32.01 | 587 | 1.88 | 0.31 | 32.1 |
| 4/25/2015 10:16:18 | 35.43 | 32.33 | 591 | 1.91 | 0.31 | 32.3 |
| 4/25/2015 10:16:19 | 35.76 | 32.66 | 589 | 1.89 | 0.31 | 32.2 |
| 4/25/2015 10:16:20 | 36.09 | 32.99 | 593 | 1.90 | 0.31 | 32.4 |
| 4/25/2015 10:16:20 | 36.42 | 33.32 | 599 | 1.90 | 0.31 | 32.8 |
| 4/25/2015 10:16:21 | 36.75 | 33.65 | 596 | 1.89 | 0.31 | 32.6 |
| 4/25/2015 10:16:21 | 37.07 | 33.97 | 589 | 1.90 | 0.31 | 32.2 |
| 4/25/2015 10:16:22 | 37.40 | 34.30 | 596 | 1.89 | 0.31 | 32.6 |
| 4/25/2015 10:16:22 | 37.73 | 34.63 | 596 | 1.87 | 0.31 | 32.6 |
| 4/25/2015 10:16:23 | 38.06 | 34.96 | 590 | 1.89 | 0.31 | 32.3 |
| 4/25/2015 10:16:46 | 38.39 | 35.29 | 26 | 1.92 | 1.10 | 1.4 |
| 4/25/2015 10:16:49 | 38.71 | 35.61 | 86 | 1.89 | 1.07 | 4.7 |
| 4/25/2015 10:16:50 | 39.04 | 35.94 | 169 | 1.89 | 1.06 | 9.2 |
| 4/25/2015 10:16:51 | 39.37 | 36.27 | 244 | 1.95 | 1.15 | 13.3 |
| 4/25/2015 10:17:20 | 39.70 | 36.60 | 0 | 1.90 | 1.15 | 0.0 |
| 4/25/2015 10:17:37 | 40.03 | 36.93 | 27 | 1.93 | 1.17 | 1.5 |
| 4/25/2015 10:17:39 | 40.35 | 37.25 | 189 | 1.87 | 1.11 | 10.4 |
| 4/25/2015 10:17:39 | 40.68 | 37.58 | 287 | 1.92 | 0.88 | 15.7 |
| 4/25/2015 10:17:42 | 41.01 | 37.91 | 21 | 1.92 | 1.16 | 1.1 |
| 4/25/2015 10:17:43 | 41.34 | 38.24 | 232 | 1.95 | 0.97 | 12.7 |
| 4/25/2015 10:17:44 | 41.67 | 38.57 | 317 | 1.93 | 0.89 | 17.3 |
| 4/25/2015 10:18:05 | 41.99 | 38.89 | 62 | 1.93 | 0.93 | 3.4 |
| 4/25/2015 10:18:09 | 42.32 | 39.22 | 17 | 1.88 | 1.52 | 0.9 |
| 4/25/2015 10:18:11 | 42.65 | 39.55 | 188 | 1.92 | 1.04 | 10.3 |
| 4/25/2015 10:18:15 | 42.98 | 39.88 | 37 | 1.90 | 1.24 | 2.0 |
| 4/25/2015 10:18:16 | 43.31 | 40.21 | 176 | 1.91 | 1.14 | 9.6 |
| 4/25/2015 10:18:17 | 43.64 | 40.54 | 345 | 1.89 | 0.97 | 18.8 |
| 4/25/2015 10:18:17 | 43.96 | 40.86 | 408 | 1.91 | 0.97 | 22.3 |
| 4/25/2015 10:18:43 | 44.29 | 41.19 | 0 | 1.84 | 1.21 | 0.0 |
| 4/25/2015 10:18:44 | 44.62 | 41.52 | 60 | 1.91 | 1.21 | 3.3 |
| 4/25/2015 10:18:50 | 44.95 | 41.85 | 40 | 1.87 | 1.31 | 2.2 |
| 4/25/2015 10:18:52 | 45.28 | 42.18 | 156 | 1.91 | 1.18 | 8.6 |
| 4/25/2015 10:19:13 | 45.60 | 42.50 | 29 | 1.93 | 1.52 | 1.6 |
| 4/25/2015 10:19:18 | 45.93 | 42.83 | 0 | 1.91 | 1.14 | 0.0 |
| 4/25/2015 10:19:20 | 46.26 | 43.16 | 74 | 1.93 | 1.48 | 4.1 |
| 4/25/2015 10:19:28 | 46.59 | 43.49 | 128 | 1.92 | 1.50 | 7.0 |
| 4/25/2015 10:19:32 | 46.92 | 43.82 | 30 | 1.93 | 1.53 | 1.6 |
| 4/25/2015 10:21:57 | 47.24 | 44.14 | 109 | 1.88 | 1.17 | 6.0 |
| 4/25/2015 10:22:10 | 47.57 | 44.47 | 25 | 1.94 | 1.32 | 1.4 |
| 4/25/2015 10:22:23 | 47.90 | 44.80 | 0 | 1.92 | 1.22 | 0.0 |
| 4/25/2015 10:22:26 | 48.23 | 45.13 | 134 | 1.91 | 1.26 | 7.3 |
| 4/25/2015 10:23:15 | 48.56 | 45.46 | 37 | 1.91 | 1.16 | 2.0 |
| 4/25/2015 10:24:10 | 48.88 | 45.78 | 24 | 1.92 | 1.18 | 1.3 |
| 4/25/2015 10:24:14 | 49.21 | 46.11 | 97 | 1.91 | 1.24 | 5.3 |
| 4/25/2015 10:24:18 | 49.54 | 46.44 | 107 | 1.93 | 1.26 | 5.8 |
| 4/25/2015 10:24:22 | 49.87 | 46.77 | 86 | 1.90 | 1.32 | 4.7 |
| 4/25/2015 10:31:32 | 50.07 | 46.97 | 0 | 1.91 | 1.48 | 0.0 |

## H30 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 10:14:08

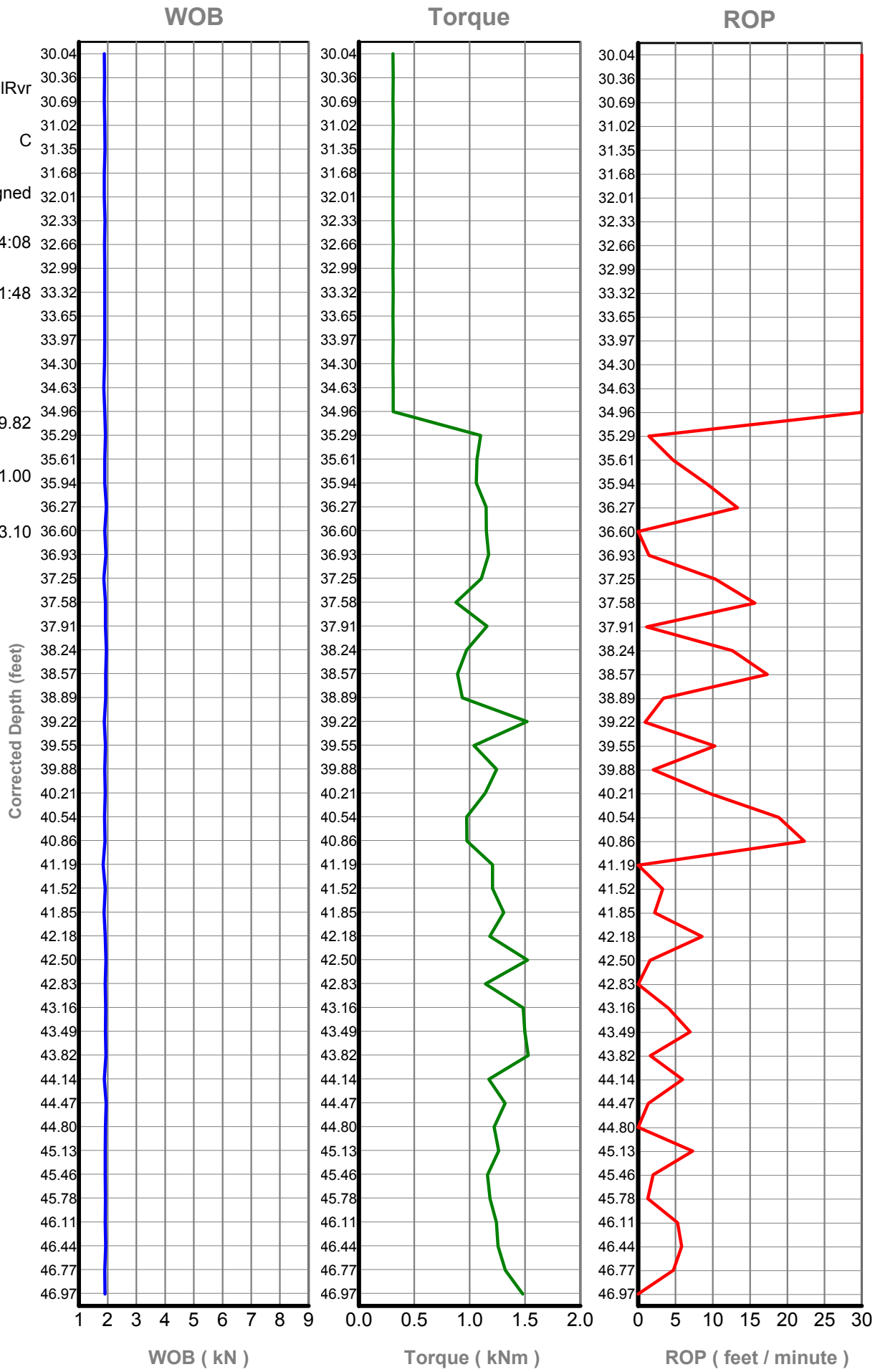
**End Date:**
4/25/2015 11:11:48

**Operator Note:**
'3.1 3.3 C Auto Complete'

**Northing:**
366,959.82

**Easting:**
250,691.00

**Tide (feet):**
3.10



## Hole: H300 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:14:26 | 31.82 | 30.22 | 587 | 1.80 | 0.32 | 32.1 |
| 4/27/2015 3:14:27 | 32.15 | 30.55 | 587 | 1.80 | 0.32 | 32.1 |
| 4/27/2015 3:14:27 | 32.48 | 30.88 | 581 | 1.81 | 0.32 | 31.8 |
| 4/27/2015 3:14:28 | 32.81 | 31.21 | 581 | 1.76 | 0.32 | 31.8 |
| 4/27/2015 3:14:28 | 33.14 | 31.54 | 578 | 1.79 | 0.32 | 31.6 |
| 4/27/2015 3:14:29 | 33.46 | 31.86 | 575 | 1.78 | 0.32 | 31.4 |
| 4/27/2015 3:14:29 | 33.79 | 32.19 | 575 | 1.79 | 0.32 | 31.4 |
| 4/27/2015 3:14:30 | 34.12 | 32.52 | 581 | 1.78 | 0.32 | 31.8 |
| 4/27/2015 3:14:31 | 34.45 | 32.85 | 578 | 1.73 | 0.32 | 31.6 |
| 4/27/2015 3:14:31 | 34.78 | 33.18 | 578 | 1.77 | 0.32 | 31.6 |
| 4/27/2015 3:14:32 | 35.11 | 33.51 | 569 | 1.81 | 0.31 | 31.1 |
| 4/27/2015 3:14:32 | 35.43 | 33.83 | 569 | 1.79 | 0.32 | 31.1 |
| 4/27/2015 3:14:33 | 35.76 | 34.16 | 570 | 1.78 | 0.31 | 31.2 |
| 4/27/2015 3:14:33 | 36.09 | 34.49 | 566 | 1.70 | 0.32 | 31.0 |
| 4/27/2015 3:14:35 | 36.42 | 34.82 | 561 | 1.76 | 0.31 | 30.7 |
| 4/27/2015 3:14:35 | 36.75 | 35.15 | 561 | 1.79 | 0.32 | 30.7 |
| 4/27/2015 3:14:36 | 37.07 | 35.47 | 578 | 1.80 | 0.32 | 31.6 |
| 4/27/2015 3:14:36 | 37.40 | 35.80 | 571 | 1.77 | 0.31 | 31.2 |
| 4/27/2015 3:14:37 | 37.73 | 36.13 | 577 | 1.80 | 0.31 | 31.6 |
| 4/27/2015 3:14:38 | 38.06 | 36.46 | 582 | 1.74 | 0.31 | 31.8 |
| 4/27/2015 3:14:38 | 38.39 | 36.79 | 578 | 1.79 | 0.31 | 31.6 |
| 4/27/2015 3:14:39 | 38.71 | 37.11 | 578 | 1.78 | 0.31 | 31.6 |
| 4/27/2015 3:14:39 | 39.04 | 37.44 | 575 | 1.82 | 0.31 | 31.5 |
| 4/27/2015 3:14:40 | 39.37 | 37.77 | 575 | 1.81 | 0.31 | 31.5 |
| 4/27/2015 3:14:41 | 39.70 | 38.10 | 575 | 1.78 | 0.31 | 31.4 |
| 4/27/2015 3:14:41 | 40.03 | 38.43 | 575 | 1.81 | 0.31 | 31.4 |
| 4/27/2015 3:14:42 | 40.35 | 38.75 | 572 | 1.78 | 0.32 | 31.3 |
| 4/27/2015 3:14:42 | 40.68 | 39.08 | 578 | 1.79 | 0.31 | 31.6 |
| 4/27/2015 3:14:43 | 41.01 | 39.41 | 572 | 1.76 | 0.31 | 31.3 |
| 4/27/2015 3:14:44 | 41.34 | 39.74 | 575 | 1.79 | 0.32 | 31.5 |
| 4/27/2015 3:14:45 | 41.67 | 40.07 | 578 | 1.80 | 0.31 | 31.6 |
| 4/27/2015 3:14:45 | 41.99 | 40.39 | 575 | 1.76 | 0.31 | 31.5 |
| 4/27/2015 3:14:46 | 42.32 | 40.72 | 566 | 1.79 | 0.31 | 31.0 |
| 4/27/2015 3:14:46 | 42.65 | 41.05 | 566 | 1.81 | 0.31 | 31.0 |
| 4/27/2015 3:14:47 | 42.98 | 41.38 | 568 | 1.78 | 0.31 | 31.1 |
| 4/27/2015 3:14:48 | 43.31 | 41.71 | 572 | 1.76 | 0.31 | 31.3 |
| 4/27/2015 3:14:48 | 43.64 | 42.04 | 566 | 1.79 | 0.31 | 30.9 |
| 4/27/2015 3:14:49 | 43.96 | 42.36 | 578 | 1.81 | 0.31 | 31.6 |
| 4/27/2015 3:14:49 | 44.29 | 42.69 | 572 | 1.77 | 0.31 | 31.3 |
| 4/27/2015 3:14:50 | 44.62 | 43.02 | 553 | 1.71 | 0.31 | 30.2 |
| 4/27/2015 3:14:51 | 44.95 | 43.35 | 510 | 1.78 | 0.31 | 27.9 |
| 4/27/2015 3:15:01 | 45.28 | 43.68 | 106 | 1.79 | 1.07 | 5.8 |
| 4/27/2015 3:15:02 | 45.60 | 44.00 | 212 | 1.75 | 1.07 | 11.6 |
| 4/27/2015 3:15:02 | 45.93 | 44.33 | 321 | 1.76 | 1.07 | 17.5 |
| 4/27/2015 3:15:07 | 46.26 | 44.66 | 0 | 1.79 | 1.18 | 0.0 |
| 4/27/2015 3:15:09 | 46.59 | 44.99 | 156 | 1.79 | 1.20 | 8.5 |
| 4/27/2015 3:15:10 | 46.92 | 45.32 | 266 | 1.78 | 1.25 | 14.6 |
| 4/27/2015 3:15:12 | 47.24 | 45.64 | 153 | 1.79 | 1.28 | 8.4 |
| 4/27/2015 3:15:20 | 47.57 | 45.97 | 79 | 1.77 | 1.11 | 4.3 |
| 4/27/2015 3:15:21 | 47.90 | 46.30 | 179 | 1.80 | 1.24 | 9.8 |
| 4/27/2015 3:15:23 | 48.23 | 46.63 | 257 | 1.79 | 1.17 | 14.0 |
| 4/27/2015 3:15:33 | 48.56 | 46.96 | 67 | 1.79 | 1.53 | 3.7 |
| 4/27/2015 3:15:34 | 48.88 | 47.28 | 173 | 1.77 | 1.10 | 9.4 |
| 4/27/2015 3:15:36 | 49.21 | 47.61 | 231 | 1.76 | 1.14 | 12.6 |
| 4/27/2015 3:15:38 | 49.54 | 47.94 | 246 | 1.80 | 0.98 | 13.4 |
| 4/27/2015 3:15:40 | 49.87 | 48.27 | 189 | 1.77 | 1.16 | 10.3 |
| 4/27/2015 3:16:01 | 50.20 | 48.60 | 38 | 1.73 | 1.18 | 2.1 |
| 4/27/2015 3:16:02 | 50.53 | 48.93 | 133 | 1.79 | 1.11 | 7.3 |
| 4/27/2015 3:16:03 | 50.85 | 49.25 | 191 | 1.75 | 1.15 | 10.4 |
| 4/27/2015 3:16:05 | 51.18 | 49.58 | 306 | 1.76 | 1.06 | 16.8 |
| 4/27/2015 3:16:06 | 51.51 | 49.91 | 329 | 1.77 | 1.15 | 18.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:16:07 | 51.84 | 50.24 | 275 | 1.79 | 1.15 | 15.0 |
| 4/27/2015 | 3:16:16 | 52.17 | 50.57 | 0 | 1.77 | 1.15 | 0.0 |
| 4/27/2015 | 3:16:17 | 52.49 | 50.89 | 44 | 1.76 | 1.07 | 2.4 |
| 4/27/2015 | 3:16:18 | 52.82 | 51.22 | 183 | 1.73 | 1.01 | 10.0 |
| 4/27/2015 | 3:16:19 | 53.15 | 51.55 | 328 | 1.79 | 1.06 | 17.9 |
| 4/27/2015 | 3:16:20 | 53.48 | 51.88 | 350 | 1.79 | 1.13 | 19.1 |
| 4/27/2015 | 3:16:21 | 53.81 | 52.21 | 344 | 1.75 | 1.05 | 18.8 |
| 4/27/2015 | 3:16:22 | 54.13 | 52.53 | 347 | 1.74 | 0.96 | 19.0 |
| 4/27/2015 | 3:16:23 | 54.46 | 52.86 | 373 | 1.74 | 1.04 | 20.4 |
| 4/27/2015 | 3:16:24 | 54.79 | 53.19 | 388 | 1.77 | 1.09 | 21.2 |
| 4/27/2015 | 3:16:25 | 55.12 | 53.52 | 390 | 1.74 | 1.07 | 21.3 |
| 4/27/2015 | 3:16:26 | 55.45 | 53.85 | 373 | 1.75 | 1.02 | 20.4 |
| 4/27/2015 | 3:16:27 | 55.77 | 54.17 | 368 | 1.74 | 1.17 | 20.1 |
| 4/27/2015 | 3:16:29 | 56.10 | 54.50 | 316 | 1.78 | 1.08 | 17.3 |
| 4/27/2015 | 3:18:15 | 56.43 | 54.83 | 0 | 1.78 | 0.87 | 0.0 |
| 4/27/2015 | 3:18:16 | 56.76 | 55.16 | 129 | 1.73 | 1.00 | 7.1 |
| 4/27/2015 | 3:18:22 | 57.09 | 55.49 | 0 | 1.76 | 0.98 | 0.0 |
| 4/27/2015 | 3:18:23 | 57.41 | 55.81 | 122 | 1.79 | 0.98 | 6.6 |
| 4/27/2015 | 3:18:24 | 57.59 | 55.99 | 180 | 1.76 | 0.95 | 9.9 |

## H300 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 3:12:57

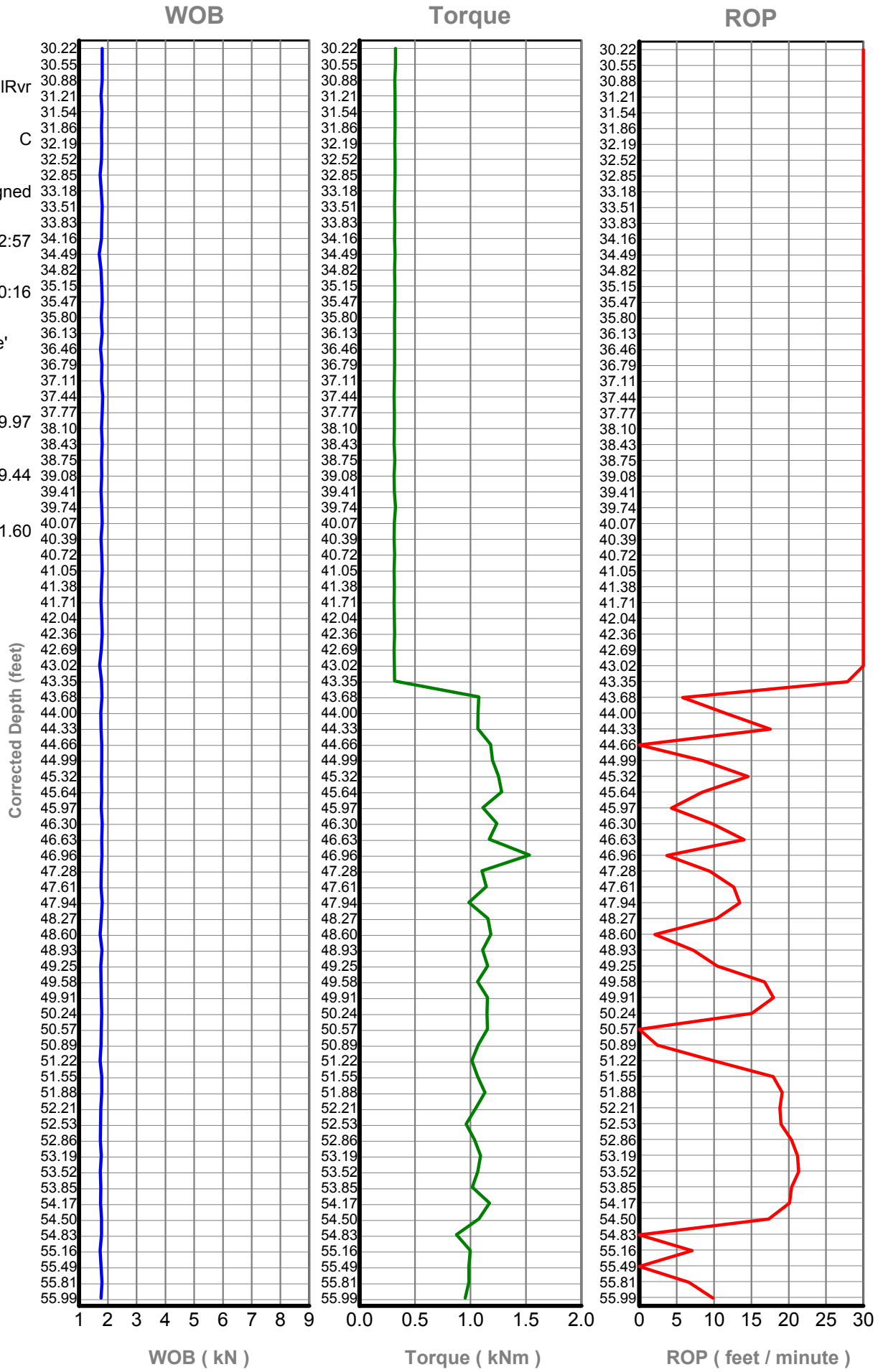
**End Date:**
4/27/2015 3:20:16

**Operator Note:**
'1.6 1.4 c Auto Complete'

**Northing:**
365,419.97

**Easting:**
249,609.44

**Tide (feet):**
1.60



## Hole: H301 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:58:33 | 31.82 | 30.12 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 1:58:33 | 32.15 | 30.45 | 1,038 | 0.30 | 0.31 | 56.7 |
| 4/27/2015 1:58:33 | 32.48 | 30.78 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 1:58:34 | 32.81 | 31.11 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 1:58:34 | 33.14 | 31.44 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/27/2015 1:58:34 | 33.46 | 31.76 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/27/2015 1:58:34 | 33.79 | 32.09 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:58:35 | 34.12 | 32.42 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 1:58:35 | 34.45 | 32.75 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 1:58:35 | 34.78 | 33.08 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 1:58:36 | 35.11 | 33.41 | 1,036 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 1:58:37 | 35.43 | 33.73 | 1,036 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 1:58:37 | 35.76 | 34.06 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/27/2015 1:58:37 | 36.09 | 34.39 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/27/2015 1:58:38 | 36.42 | 34.72 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/27/2015 1:58:38 | 36.75 | 35.05 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/27/2015 1:58:38 | 37.07 | 35.37 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/27/2015 1:58:39 | 37.40 | 35.70 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/27/2015 1:58:39 | 37.73 | 36.03 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/27/2015 1:58:39 | 38.06 | 36.36 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/27/2015 1:58:40 | 38.39 | 36.69 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/27/2015 1:58:40 | 38.71 | 37.01 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/27/2015 1:58:40 | 39.04 | 37.34 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 1:58:41 | 39.37 | 37.67 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/27/2015 1:58:41 | 39.70 | 38.00 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 1:58:41 | 40.03 | 38.33 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 1:58:42 | 40.35 | 38.65 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 1:58:42 | 40.68 | 38.98 | 1,038 | 0.30 | 0.31 | 56.8 |
| 4/27/2015 1:58:42 | 41.01 | 39.31 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/27/2015 1:58:43 | 41.34 | 39.64 | 1,026 | 0.30 | 0.32 | 56.1 |
| 4/27/2015 1:58:43 | 41.67 | 39.97 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/27/2015 1:58:43 | 41.99 | 40.29 | 1,020 | 0.28 | 0.31 | 55.8 |
| 4/27/2015 1:58:44 | 42.32 | 40.62 | 1,020 | 0.28 | 0.31 | 55.8 |
| 4/27/2015 1:58:44 | 42.65 | 40.95 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/27/2015 1:58:44 | 42.98 | 41.28 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/27/2015 1:58:45 | 43.31 | 41.61 | 1,022 | 0.31 | 0.32 | 55.9 |
| 4/27/2015 1:58:45 | 43.64 | 41.94 | 1,022 | 0.30 | 0.32 | 55.9 |
| 4/27/2015 1:58:45 | 43.96 | 42.26 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/27/2015 1:58:46 | 44.29 | 42.59 | 1,028 | 0.30 | 0.32 | 56.2 |
| 4/27/2015 1:58:46 | 44.62 | 42.92 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/27/2015 1:58:47 | 44.95 | 43.25 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/27/2015 1:58:47 | 45.28 | 43.58 | 1,026 | 0.30 | 0.31 | 56.1 |
| 4/27/2015 1:58:47 | 45.60 | 43.90 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/27/2015 1:58:48 | 45.93 | 44.23 | 1,023 | 0.30 | 0.32 | 56.0 |
| 4/27/2015 1:58:48 | 46.26 | 44.56 | 1,023 | 0.30 | 0.32 | 56.0 |
| 4/27/2015 1:58:48 | 46.59 | 44.89 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/27/2015 1:58:49 | 46.92 | 45.22 | 1,014 | 0.30 | 0.31 | 55.5 |
| 4/27/2015 1:58:49 | 47.24 | 45.54 | 1,017 | 0.29 | 0.36 | 55.6 |
| 4/27/2015 1:58:50 | 47.57 | 45.87 | 932 | 0.29 | 0.40 | 50.9 |
| 4/27/2015 1:58:56 | 47.90 | 46.20 | 115 | 6.12 | 0.39 | 6.3 |
| 4/27/2015 1:59:00 | 48.23 | 46.53 | 115 | 5.26 | 0.40 | 6.3 |
| 4/27/2015 1:59:01 | 48.56 | 46.86 | 157 | 4.66 | 0.35 | 8.6 |
| 4/27/2015 1:59:05 | 48.88 | 47.18 | 0 | 3.63 | 0.36 | 0.0 |
| 4/27/2015 1:59:06 | 49.21 | 47.51 | 132 | 4.95 | 0.40 | 7.2 |
| 4/27/2015 1:59:09 | 49.54 | 47.84 | 109 | 4.11 | 0.38 | 6.0 |
| 4/27/2015 1:59:12 | 49.87 | 48.17 | 138 | 4.01 | 0.38 | 7.5 |
| 4/27/2015 1:59:14 | 50.20 | 48.50 | 129 | 3.43 | 0.36 | 7.1 |
| 4/27/2015 1:59:38 | 50.53 | 48.83 | 53 | 3.68 | 0.38 | 2.9 |
| 4/27/2015 1:59:39 | 50.85 | 49.15 | 102 | 3.55 | 0.37 | 5.6 |
| 4/27/2015 1:59:40 | 51.18 | 49.48 | 247 | 2.65 | 0.38 | 13.5 |
| 4/27/2015 1:59:42 | 51.51 | 49.81 | 316 | 2.75 | 0.38 | 17.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:59:43 | 51.84 | 50.14 | 239 | 2.90 | 0.39 | 13.1 |
| 4/27/2015 | 1:59:45 | 52.17 | 50.47 | 185 | 3.01 | 0.38 | 10.1 |
| 4/27/2015 | 1:59:48 | 52.49 | 50.79 | 142 | 3.51 | 0.40 | 7.8 |
| 4/27/2015 | 2:00:00 | 52.82 | 51.12 | 62 | 5.12 | 0.40 | 3.4 |
| 4/27/2015 | 2:00:07 | 53.15 | 51.45 | 33 | 3.12 | 0.37 | 1.8 |
| 4/27/2015 | 2:00:07 | 53.48 | 51.78 | 121 | 2.78 | 0.37 | 6.6 |
| 4/27/2015 | 2:00:08 | 53.81 | 52.11 | 288 | 3.09 | 0.37 | 15.7 |
| 4/27/2015 | 2:00:09 | 54.13 | 52.43 | 420 | 3.05 | 0.37 | 23.0 |
| 4/27/2015 | 2:00:10 | 54.46 | 52.76 | 420 | 3.20 | 0.37 | 23.0 |
| 4/27/2015 | 2:00:11 | 54.79 | 53.09 | 412 | 2.44 | 0.36 | 22.5 |
| 4/27/2015 | 2:00:16 | 55.12 | 53.42 | 0 | 2.36 | 0.35 | 0.0 |
| 4/27/2015 | 2:00:16 | 55.45 | 53.75 | 61 | 2.58 | 0.37 | 3.3 |
| 4/27/2015 | 2:00:18 | 55.77 | 54.07 | 278 | 3.12 | 0.39 | 15.2 |
| 4/27/2015 | 2:00:27 | 56.10 | 54.40 | 84 | 3.35 | 0.39 | 4.6 |
| 4/27/2015 | 2:00:34 | 56.43 | 54.73 | 46 | 3.09 | 0.40 | 2.5 |
| 4/27/2015 | 2:00:42 | 56.76 | 55.06 | 49 | 2.82 | 0.40 | 2.7 |

## H301 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:53:29

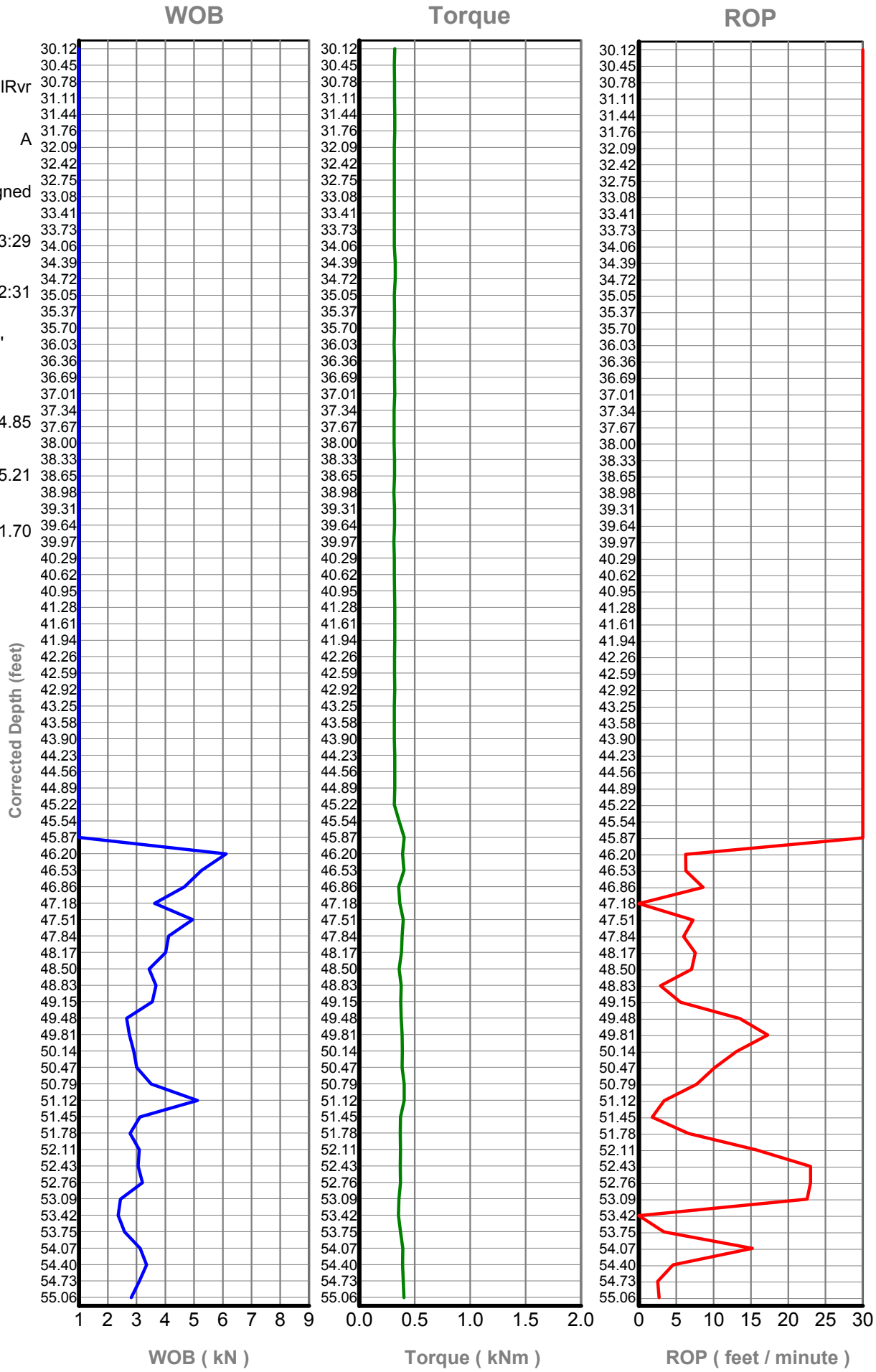
**End Date:**
4/27/2015 2:02:31

**Operator Note:**
'1.7 1.8b Auto Complete'

**Northing:**
365,474.85

**Easting:**
249,675.21

**Tide (feet):**
1.70



## Hole: H302 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 1:55:29 | 31.82 | 30.12 | 640 | 1.76 | 0.31 | 35.0 |
| 4/27/2015 1:55:29 | 32.15 | 30.45 | 636 | 1.76 | 0.31 | 34.8 |
| 4/27/2015 1:55:30 | 32.48 | 30.78 | 633 | 1.77 | 0.31 | 34.6 |
| 4/27/2015 1:55:30 | 32.81 | 31.11 | 633 | 1.79 | 0.31 | 34.6 |
| 4/27/2015 1:55:31 | 33.14 | 31.44 | 633 | 1.79 | 0.31 | 34.6 |
| 4/27/2015 1:55:32 | 33.46 | 31.76 | 629 | 1.76 | 0.31 | 34.4 |
| 4/27/2015 1:55:32 | 33.79 | 32.09 | 636 | 1.75 | 0.31 | 34.8 |
| 4/27/2015 1:55:33 | 34.12 | 32.42 | 633 | 1.79 | 0.31 | 34.6 |
| 4/27/2015 1:55:33 | 34.45 | 32.75 | 630 | 1.77 | 0.31 | 34.5 |
| 4/27/2015 1:55:34 | 34.78 | 33.08 | 630 | 1.79 | 0.31 | 34.5 |
| 4/27/2015 1:55:34 | 35.11 | 33.41 | 630 | 1.75 | 0.31 | 34.5 |
| 4/27/2015 1:55:35 | 35.43 | 33.73 | 630 | 1.79 | 0.31 | 34.5 |
| 4/27/2015 1:55:35 | 35.76 | 34.06 | 634 | 1.76 | 0.31 | 34.7 |
| 4/27/2015 1:55:36 | 36.09 | 34.39 | 627 | 1.76 | 0.31 | 34.3 |
| 4/27/2015 1:55:36 | 36.42 | 34.72 | 627 | 1.75 | 0.31 | 34.3 |
| 4/27/2015 1:55:37 | 36.75 | 35.05 | 630 | 1.76 | 0.31 | 34.5 |
| 4/27/2015 1:55:38 | 37.07 | 35.37 | 624 | 1.79 | 0.31 | 34.1 |
| 4/27/2015 1:55:39 | 37.40 | 35.70 | 637 | 1.77 | 0.31 | 34.8 |
| 4/27/2015 1:55:39 | 37.73 | 36.03 | 634 | 1.75 | 0.31 | 34.7 |
| 4/27/2015 1:55:40 | 38.06 | 36.36 | 627 | 1.76 | 0.31 | 34.3 |
| 4/27/2015 1:55:40 | 38.39 | 36.69 | 627 | 1.79 | 0.31 | 34.3 |
| 4/27/2015 1:55:41 | 38.71 | 37.01 | 626 | 1.76 | 0.31 | 34.2 |
| 4/27/2015 1:55:41 | 39.04 | 37.34 | 626 | 1.78 | 0.31 | 34.2 |
| 4/27/2015 1:55:42 | 39.37 | 37.67 | 622 | 1.77 | 0.31 | 34.0 |
| 4/27/2015 1:55:42 | 39.70 | 38.00 | 622 | 1.81 | 0.31 | 34.0 |
| 4/27/2015 1:55:43 | 40.03 | 38.33 | 629 | 1.76 | 0.31 | 34.4 |
| 4/27/2015 1:55:43 | 40.35 | 38.65 | 628 | 1.78 | 0.31 | 34.4 |
| 4/27/2015 1:55:44 | 40.68 | 38.98 | 624 | 1.79 | 0.31 | 34.1 |
| 4/27/2015 1:55:45 | 41.01 | 39.31 | 630 | 1.74 | 0.31 | 34.5 |
| 4/27/2015 1:55:45 | 41.34 | 39.64 | 628 | 1.79 | 0.31 | 34.3 |
| 4/27/2015 1:55:46 | 41.67 | 39.97 | 628 | 1.75 | 0.31 | 34.3 |
| 4/27/2015 1:55:46 | 41.99 | 40.29 | 624 | 1.79 | 0.31 | 34.1 |
| 4/27/2015 1:55:47 | 42.32 | 40.62 | 634 | 1.78 | 0.31 | 34.7 |
| 4/27/2015 1:55:47 | 42.65 | 40.95 | 627 | 1.76 | 0.30 | 34.3 |
| 4/27/2015 1:55:48 | 42.98 | 41.28 | 627 | 1.74 | 0.31 | 34.3 |
| 4/27/2015 1:55:49 | 43.31 | 41.61 | 618 | 1.79 | 0.31 | 33.8 |
| 4/27/2015 1:55:49 | 43.64 | 41.94 | 628 | 1.78 | 0.31 | 34.4 |
| 4/27/2015 1:55:50 | 43.96 | 42.26 | 615 | 1.77 | 0.31 | 33.6 |
| 4/27/2015 1:55:51 | 44.29 | 42.59 | 621 | 1.76 | 0.31 | 33.9 |
| 4/27/2015 1:55:51 | 44.62 | 42.92 | 623 | 1.78 | 0.31 | 34.1 |
| 4/27/2015 1:55:52 | 44.95 | 43.25 | 630 | 1.76 | 0.31 | 34.5 |
| 4/27/2015 1:55:52 | 45.28 | 43.58 | 610 | 1.79 | 0.31 | 33.3 |
| 4/27/2015 1:55:53 | 45.60 | 43.90 | 610 | 1.77 | 0.31 | 33.3 |
| 4/27/2015 1:55:53 | 45.93 | 44.23 | 618 | 1.76 | 0.31 | 33.8 |
| 4/27/2015 1:55:54 | 46.26 | 44.56 | 620 | 1.76 | 0.31 | 33.9 |
| 4/27/2015 1:55:54 | 46.59 | 44.89 | 617 | 1.76 | 0.31 | 33.7 |
| 4/27/2015 1:55:55 | 46.92 | 45.22 | 607 | 1.76 | 0.31 | 33.2 |
| 4/27/2015 1:55:55 | 47.24 | 45.54 | 607 | 1.76 | 0.31 | 33.2 |
| 4/27/2015 1:55:56 | 47.57 | 45.87 | 619 | 1.74 | 0.31 | 33.9 |
| 4/27/2015 1:55:57 | 47.90 | 46.20 | 615 | 1.78 | 0.31 | 33.6 |
| 4/27/2015 1:56:07 | 48.23 | 46.53 | 0 | 1.79 | 1.23 | 0.0 |
| 4/27/2015 1:56:09 | 48.56 | 46.86 | 109 | 1.72 | 1.16 | 6.0 |
| 4/27/2015 1:56:10 | 48.88 | 47.18 | 204 | 1.75 | 1.23 | 11.2 |
| 4/27/2015 1:56:15 | 49.21 | 47.51 | 0 | 1.74 | 1.11 | 0.0 |
| 4/27/2015 1:56:17 | 49.54 | 47.84 | 184 | 1.74 | 1.23 | 10.0 |
| 4/27/2015 1:56:18 | 49.87 | 48.17 | 228 | 1.72 | 1.18 | 12.5 |
| 4/27/2015 1:56:21 | 50.20 | 48.50 | 217 | 1.74 | 1.23 | 11.9 |
| 4/27/2015 1:56:22 | 50.53 | 48.83 | 210 | 1.74 | 1.24 | 11.5 |
| 4/27/2015 1:56:24 | 50.85 | 49.15 | 188 | 1.71 | 1.06 | 10.3 |
| 4/27/2015 1:56:26 | 51.18 | 49.48 | 201 | 1.76 | 1.22 | 11.0 |
| 4/27/2015 1:56:57 | 51.51 | 49.81 | 65 | 1.74 | 1.22 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 1:56:59 | 51.84 | 50.14 | 175 | 1.72 | 1.25 | 9.6 |
| 4/27/2015 | 1:57:01 | 52.17 | 50.47 | 210 | 1.74 | 1.19 | 11.5 |
| 4/27/2015 | 1:57:02 | 52.49 | 50.79 | 211 | 1.74 | 1.16 | 11.5 |
| 4/27/2015 | 1:57:04 | 52.82 | 51.12 | 203 | 1.75 | 1.10 | 11.1 |
| 4/27/2015 | 1:57:41 | 53.15 | 51.45 | 20 | 1.71 | 1.09 | 1.1 |
| 4/27/2015 | 1:57:43 | 53.48 | 51.78 | 155 | 1.72 | 1.08 | 8.5 |
| 4/27/2015 | 1:57:44 | 53.81 | 52.11 | 240 | 1.74 | 1.09 | 13.1 |
| 4/27/2015 | 1:57:46 | 54.13 | 52.43 | 219 | 1.74 | 1.11 | 12.0 |
| 4/27/2015 | 1:57:48 | 54.46 | 52.76 | 182 | 1.74 | 1.17 | 9.9 |
| 4/27/2015 | 1:57:50 | 54.79 | 53.09 | 163 | 1.76 | 1.12 | 8.9 |
| 4/27/2015 | 1:57:53 | 55.12 | 53.42 | 116 | 1.78 | 1.13 | 6.3 |
| 4/27/2015 | 1:57:57 | 55.45 | 53.75 | 79 | 1.74 | 1.08 | 4.3 |
| 4/27/2015 | 1:58:01 | 55.77 | 54.07 | 82 | 1.76 | 1.10 | 4.5 |
| 4/27/2015 | 1:58:07 | 56.10 | 54.40 | 77 | 1.76 | 1.12 | 4.2 |
| 4/27/2015 | 1:58:12 | 56.43 | 54.73 | 61 | 1.76 | 1.15 | 3.3 |
| 4/27/2015 | 1:58:17 | 56.76 | 55.06 | 66 | 1.76 | 1.13 | 3.6 |
| 4/27/2015 | 1:58:18 | 56.85 | 55.15 | 78 | 1.77 | 1.11 | 4.3 |

## H302 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 1:54:03

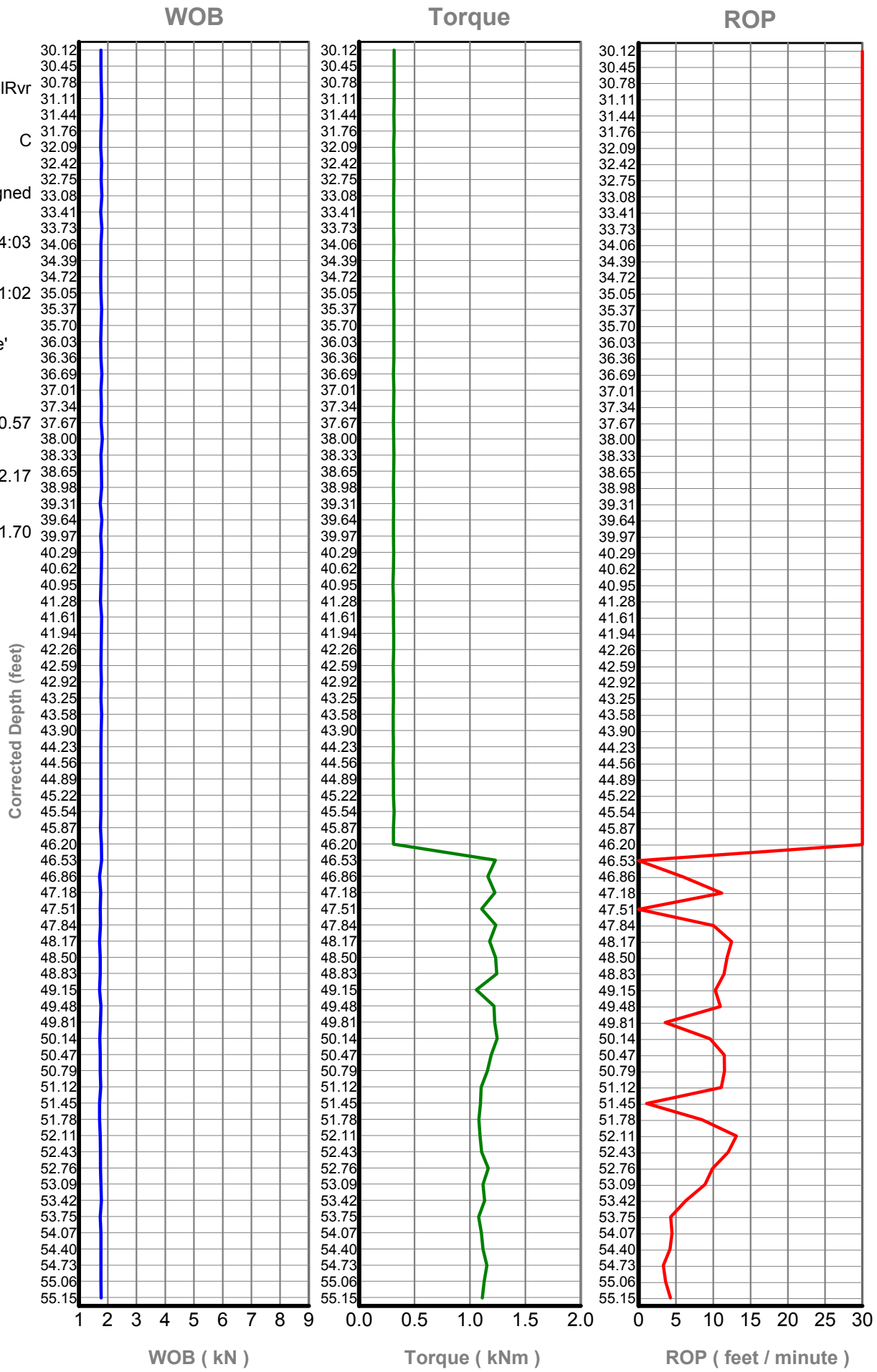
**End Date:**
4/27/2015 2:01:02

**Operator Note:**
'1.7 1.8 c Auto Complete'

**Northing:**
365,510.57

**Easting:**
249,722.17

**Tide (feet):**
1.70



## Hole: H303 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:05:36 | 31.82 | 30.22 | 601 | 1.76 | 0.14 | 32.9 |
| 4/27/2015 2:05:36 | 32.15 | 30.55 | 601 | 1.76 | 0.14 | 32.9 |
| 4/27/2015 2:05:37 | 32.48 | 30.88 | 598 | 1.75 | 0.14 | 32.7 |
| 4/27/2015 2:05:37 | 32.81 | 31.21 | 601 | 1.74 | 0.14 | 32.9 |
| 4/27/2015 2:05:38 | 33.14 | 31.54 | 598 | 1.74 | 0.15 | 32.7 |
| 4/27/2015 2:05:39 | 33.46 | 31.86 | 598 | 1.74 | 0.15 | 32.7 |
| 4/27/2015 2:05:39 | 33.79 | 32.19 | 601 | 1.75 | 0.14 | 32.9 |
| 4/27/2015 2:05:40 | 34.12 | 32.52 | 598 | 1.79 | 0.14 | 32.7 |
| 4/27/2015 2:05:40 | 34.45 | 32.85 | 598 | 1.78 | 0.14 | 32.7 |
| 4/27/2015 2:05:41 | 34.78 | 33.18 | 592 | 1.76 | 0.14 | 32.4 |
| 4/27/2015 2:05:42 | 35.11 | 33.51 | 596 | 1.76 | 0.14 | 32.6 |
| 4/27/2015 2:05:43 | 35.43 | 33.83 | 596 | 1.75 | 0.14 | 32.6 |
| 4/27/2015 2:05:43 | 35.76 | 34.16 | 589 | 1.76 | 0.14 | 32.2 |
| 4/27/2015 2:05:44 | 36.09 | 34.49 | 599 | 1.75 | 0.15 | 32.8 |
| 4/27/2015 2:05:44 | 36.42 | 34.82 | 593 | 1.74 | 0.14 | 32.4 |
| 4/27/2015 2:05:45 | 36.75 | 35.15 | 593 | 1.76 | 0.14 | 32.4 |
| 4/27/2015 2:05:45 | 37.07 | 35.47 | 593 | 1.80 | 0.14 | 32.4 |
| 4/27/2015 2:05:46 | 37.40 | 35.80 | 595 | 1.76 | 0.14 | 32.6 |
| 4/27/2015 2:05:47 | 37.73 | 36.13 | 595 | 1.76 | 0.14 | 32.6 |
| 4/27/2015 2:05:47 | 38.06 | 36.46 | 592 | 1.77 | 0.14 | 32.4 |
| 4/27/2015 2:05:48 | 38.39 | 36.79 | 592 | 1.74 | 0.14 | 32.4 |
| 4/27/2015 2:05:48 | 38.71 | 37.11 | 593 | 1.76 | 0.14 | 32.4 |
| 4/27/2015 2:05:49 | 39.04 | 37.44 | 593 | 1.72 | 0.14 | 32.4 |
| 4/27/2015 2:05:50 | 39.37 | 37.77 | 576 | 1.78 | 0.14 | 31.5 |
| 4/27/2015 2:05:50 | 39.70 | 38.10 | 576 | 1.74 | 0.14 | 31.5 |
| 4/27/2015 2:05:51 | 40.03 | 38.43 | 588 | 1.77 | 0.14 | 32.2 |
| 4/27/2015 2:05:52 | 40.35 | 38.75 | 584 | 1.77 | 0.14 | 31.9 |
| 4/27/2015 2:05:52 | 40.68 | 39.08 | 584 | 1.76 | 0.14 | 32.0 |
| 4/27/2015 2:05:53 | 41.01 | 39.41 | 591 | 1.76 | 0.14 | 32.3 |
| 4/27/2015 2:05:53 | 41.34 | 39.74 | 604 | 1.78 | 0.14 | 33.0 |
| 4/27/2015 2:05:54 | 41.67 | 40.07 | 593 | 1.77 | 0.14 | 32.4 |
| 4/27/2015 2:05:55 | 41.99 | 40.39 | 593 | 1.76 | 0.14 | 32.4 |
| 4/27/2015 2:05:55 | 42.32 | 40.72 | 593 | 1.75 | 0.15 | 32.4 |
| 4/27/2015 2:05:56 | 42.65 | 41.05 | 589 | 1.79 | 0.14 | 32.2 |
| 4/27/2015 2:05:56 | 42.98 | 41.38 | 593 | 1.77 | 0.14 | 32.4 |
| 4/27/2015 2:05:57 | 43.31 | 41.71 | 590 | 1.75 | 0.14 | 32.3 |
| 4/27/2015 2:05:58 | 43.64 | 42.04 | 587 | 1.76 | 0.14 | 32.1 |
| 4/27/2015 2:05:58 | 43.96 | 42.36 | 593 | 1.77 | 0.14 | 32.5 |
| 4/27/2015 2:05:59 | 44.29 | 42.69 | 580 | 1.78 | 0.14 | 31.7 |
| 4/27/2015 2:05:59 | 44.62 | 43.02 | 580 | 1.76 | 0.14 | 31.7 |
| 4/27/2015 2:06:00 | 44.95 | 43.35 | 584 | 1.76 | 0.14 | 31.9 |
| 4/27/2015 2:06:00 | 45.28 | 43.68 | 584 | 1.74 | 0.14 | 31.9 |
| 4/27/2015 2:06:01 | 45.60 | 44.00 | 589 | 1.75 | 0.14 | 32.2 |
| 4/27/2015 2:06:02 | 45.93 | 44.33 | 582 | 1.79 | 0.14 | 31.8 |
| 4/27/2015 2:06:03 | 46.26 | 44.66 | 595 | 1.76 | 0.14 | 32.6 |
| 4/27/2015 2:06:03 | 46.59 | 44.99 | 595 | 1.76 | 0.14 | 32.5 |
| 4/27/2015 2:06:04 | 46.92 | 45.32 | 593 | 1.76 | 0.14 | 32.4 |
| 4/27/2015 2:06:04 | 47.24 | 45.64 | 593 | 1.77 | 0.14 | 32.4 |
| 4/27/2015 2:06:05 | 47.57 | 45.97 | 593 | 1.75 | 0.14 | 32.4 |
| 4/27/2015 2:06:06 | 47.90 | 46.30 | 590 | 1.78 | 0.14 | 32.3 |
| 4/27/2015 2:06:20 | 48.23 | 46.63 | 40 | 1.74 | 1.06 | 2.2 |
| 4/27/2015 2:06:20 | 48.56 | 46.96 | 131 | 1.76 | 1.29 | 7.2 |
| 4/27/2015 2:06:22 | 48.88 | 47.28 | 304 | 1.73 | 1.13 | 16.6 |
| 4/27/2015 2:06:28 | 49.21 | 47.61 | 49 | 1.73 | 1.17 | 2.7 |
| 4/27/2015 2:06:30 | 49.54 | 47.94 | 167 | 1.75 | 1.14 | 9.1 |
| 4/27/2015 2:06:46 | 49.87 | 48.27 | 0 | 1.75 | 1.14 | 0.0 |
| 4/27/2015 2:06:47 | 50.20 | 48.60 | 112 | 1.71 | 1.15 | 6.1 |
| 4/27/2015 2:06:48 | 50.53 | 48.93 | 164 | 1.75 | 1.09 | 9.0 |
| 4/27/2015 2:07:02 | 50.85 | 49.25 | 0 | 1.75 | 1.35 | 0.0 |
| 4/27/2015 2:07:05 | 51.18 | 49.58 | 121 | 1.75 | 1.14 | 6.6 |
| 4/27/2015 2:07:06 | 51.51 | 49.91 | 191 | 1.76 | 1.17 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:07:08 | 51.84 | 50.24 | 194 | 1.76 | 1.51 | 10.6 |
| 4/27/2015 | 2:07:10 | 52.17 | 50.57 | 173 | 1.76 | 1.13 | 9.5 |
| 4/27/2015 | 2:07:12 | 52.49 | 50.89 | 186 | 1.73 | 1.07 | 10.1 |
| 4/27/2015 | 2:07:14 | 52.82 | 51.22 | 149 | 1.76 | 1.12 | 8.2 |
| 4/27/2015 | 2:07:20 | 53.15 | 51.55 | 51 | 1.78 | 1.11 | 2.8 |
| 4/27/2015 | 2:07:29 | 53.48 | 51.88 | 33 | 1.79 | 1.02 | 1.8 |
| 4/27/2015 | 2:07:41 | 53.81 | 52.21 | 29 | 1.79 | 1.03 | 1.6 |
| 4/27/2015 | 2:07:51 | 54.13 | 52.53 | 34 | 1.78 | 1.07 | 1.9 |
| 4/27/2015 | 2:07:57 | 54.29 | 52.69 | 32 | 1.79 | 1.07 | 1.7 |

## H303 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:03:47

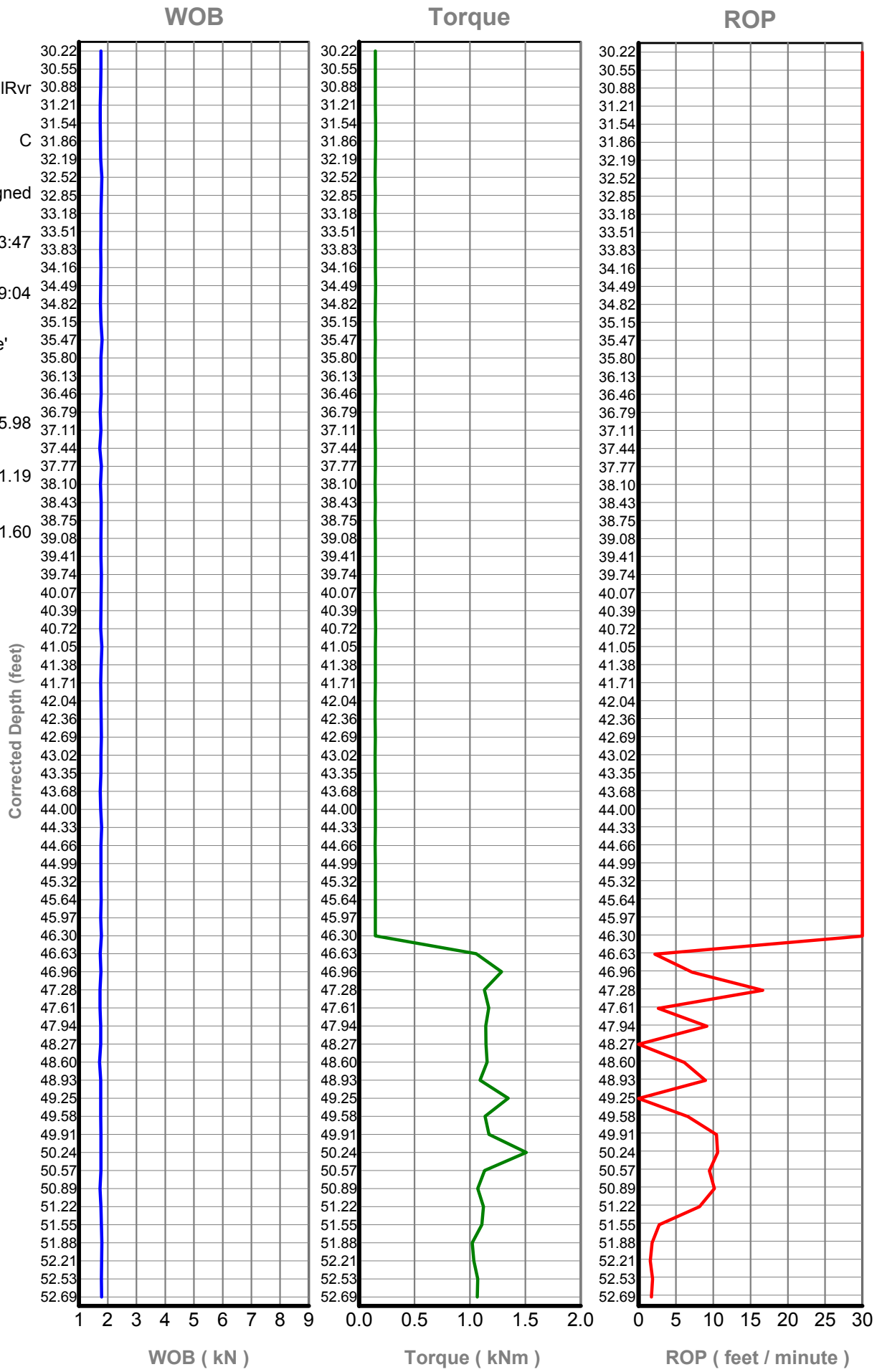
**End Date:**
4/27/2015 2:09:04

**Operator Note:**
'1.6 1.7 c Auto Complete'

**Northing:**
365,555.98

**Easting:**
249,781.19

**Tide (feet):**
1.60



## Hole: H304 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 18:16:30 | 35.76 | 30.26 | 1,127 | 0.27 | 0.32 | 61.7 |
| 4/26/2015 18:16:31 | 36.09 | 30.59 | 1,127 | 0.27 | 0.32 | 61.7 |
| 4/26/2015 18:16:31 | 36.42 | 30.92 | 1,137 | 0.27 | 0.31 | 62.2 |
| 4/26/2015 18:16:31 | 36.75 | 31.25 | 1,127 | 0.27 | 0.30 | 61.6 |
| 4/26/2015 18:16:32 | 37.07 | 31.57 | 1,127 | 0.27 | 0.30 | 61.6 |
| 4/26/2015 18:16:32 | 37.40 | 31.90 | 1,127 | 0.27 | 0.30 | 61.6 |
| 4/26/2015 18:16:33 | 37.73 | 32.23 | 1,087 | 0.26 | 0.30 | 59.5 |
| 4/26/2015 18:16:33 | 38.06 | 32.56 | 1,087 | 0.26 | 0.30 | 59.5 |
| 4/26/2015 18:16:33 | 38.39 | 32.89 | 1,087 | 0.26 | 0.31 | 59.5 |
| 4/26/2015 18:16:34 | 38.71 | 33.21 | 1,087 | 0.26 | 0.31 | 59.5 |
| 4/26/2015 18:16:34 | 39.04 | 33.54 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/26/2015 18:16:34 | 39.37 | 33.87 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/26/2015 18:16:35 | 39.70 | 34.20 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/26/2015 18:16:35 | 40.03 | 34.53 | 1,112 | 0.27 | 0.26 | 60.8 |
| 4/26/2015 18:16:35 | 40.35 | 34.85 | 1,112 | 0.27 | 0.26 | 60.8 |
| 4/26/2015 18:16:35 | 40.68 | 35.18 | 1,124 | 0.28 | 0.31 | 61.5 |
| 4/26/2015 18:16:36 | 41.01 | 35.51 | 1,143 | 0.29 | 0.33 | 62.5 |
| 4/26/2015 18:16:36 | 41.34 | 35.84 | 1,143 | 0.29 | 0.33 | 62.5 |
| 4/26/2015 18:16:36 | 41.67 | 36.17 | 1,143 | 0.27 | 0.32 | 62.5 |
| 4/26/2015 18:16:37 | 41.99 | 36.49 | 1,143 | 0.27 | 0.32 | 62.5 |
| 4/26/2015 18:16:37 | 42.32 | 36.82 | 1,121 | 0.26 | 0.31 | 61.3 |
| 4/26/2015 18:16:37 | 42.65 | 37.15 | 1,128 | 0.29 | 0.27 | 61.7 |
| 4/26/2015 18:16:38 | 42.98 | 37.48 | 1,128 | 0.29 | 0.27 | 61.7 |
| 4/26/2015 18:16:38 | 43.31 | 37.81 | 1,134 | 0.27 | 0.30 | 62.0 |
| 4/26/2015 18:16:38 | 43.64 | 38.14 | 1,134 | 0.27 | 0.30 | 62.0 |
| 4/26/2015 18:16:38 | 43.96 | 38.46 | 1,125 | 0.27 | 0.30 | 61.5 |
| 4/26/2015 18:16:39 | 44.29 | 38.79 | 1,140 | 0.28 | 0.29 | 62.3 |
| 4/26/2015 18:16:39 | 44.62 | 39.12 | 1,140 | 0.28 | 0.29 | 62.3 |
| 4/26/2015 18:16:39 | 44.95 | 39.45 | 1,136 | 0.28 | 0.30 | 62.1 |
| 4/26/2015 18:16:40 | 45.28 | 39.78 | 1,136 | 0.28 | 0.30 | 62.1 |
| 4/26/2015 18:16:40 | 45.60 | 40.10 | 1,127 | 0.28 | 0.28 | 61.6 |
| 4/26/2015 18:16:40 | 45.93 | 40.43 | 1,124 | 0.28 | 0.31 | 61.5 |
| 4/26/2015 18:16:41 | 46.26 | 40.76 | 1,124 | 0.28 | 0.31 | 61.5 |
| 4/26/2015 18:16:41 | 46.59 | 41.09 | 1,119 | 0.28 | 0.34 | 61.2 |
| 4/26/2015 18:16:41 | 46.92 | 41.42 | 1,122 | 0.29 | 0.31 | 61.3 |
| 4/26/2015 18:16:42 | 47.24 | 41.74 | 1,122 | 0.29 | 0.31 | 61.3 |
| 4/26/2015 18:16:42 | 47.57 | 42.07 | 1,116 | 0.28 | 0.29 | 61.0 |
| 4/26/2015 18:16:43 | 47.90 | 42.40 | 1,116 | 0.28 | 0.29 | 61.0 |
| 4/26/2015 18:16:43 | 48.23 | 42.73 | 1,104 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 18:16:43 | 48.56 | 43.06 | 1,108 | 0.28 | 0.31 | 60.6 |
| 4/26/2015 18:16:44 | 48.88 | 43.38 | 1,108 | 0.28 | 0.31 | 60.6 |
| 4/26/2015 18:16:44 | 49.21 | 43.71 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/26/2015 18:16:44 | 49.54 | 44.04 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/26/2015 18:16:44 | 49.87 | 44.37 | 1,109 | 0.28 | 0.30 | 60.6 |
| 4/26/2015 18:16:45 | 50.20 | 44.70 | 1,111 | 0.29 | 0.30 | 60.8 |
| 4/26/2015 18:16:45 | 50.53 | 45.03 | 1,111 | 0.29 | 0.30 | 60.8 |
| 4/26/2015 18:16:45 | 50.85 | 45.35 | 1,121 | 0.27 | 0.31 | 61.3 |
| 4/26/2015 18:16:46 | 51.18 | 45.68 | 1,106 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 18:16:46 | 51.51 | 46.01 | 1,106 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 18:16:46 | 51.84 | 46.34 | 1,108 | 0.26 | 0.35 | 60.6 |
| 4/26/2015 18:16:53 | 52.17 | 46.67 | 0 | 2.60 | 0.36 | 0.0 |
| 4/26/2015 18:16:54 | 52.49 | 46.99 | 129 | 3.13 | 0.38 | 7.0 |
| 4/26/2015 18:16:56 | 52.82 | 47.32 | 291 | 2.53 | 0.37 | 15.9 |
| 4/26/2015 18:16:57 | 53.15 | 47.65 | 257 | 4.00 | 0.37 | 14.0 |
| 4/26/2015 18:17:01 | 53.48 | 47.98 | 0 | 3.29 | 0.35 | 0.0 |
| 4/26/2015 18:17:02 | 53.81 | 48.31 | 135 | 3.75 | 0.37 | 7.4 |
| 4/26/2015 18:17:02 | 54.13 | 48.63 | 235 | 2.59 | 0.35 | 12.9 |
| 4/26/2015 18:17:03 | 54.46 | 48.96 | 235 | 2.31 | 0.35 | 12.9 |
| 4/26/2015 18:17:09 | 54.79 | 49.29 | 0 | 1.84 | 0.34 | 0.0 |
| 4/26/2015 18:17:09 | 55.12 | 49.62 | 103 | 1.96 | 0.36 | 5.6 |
| 4/26/2015 18:17:10 | 55.45 | 49.95 | 233 | 1.88 | 0.35 | 12.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 18:17:11 | 55.77 | 50.27 | 480 | 2.06 | 0.37 | 26.2 |
| 4/26/2015 | 18:17:11 | 56.10 | 50.60 | 574 | 2.05 | 0.37 | 31.4 |
| 4/26/2015 | 18:17:12 | 56.43 | 50.93 | 574 | 1.80 | 0.35 | 31.4 |
| 4/26/2015 | 18:17:12 | 56.76 | 51.26 | 586 | 2.41 | 0.37 | 32.1 |
| 4/26/2015 | 18:17:14 | 57.09 | 51.59 | 442 | 2.44 | 0.37 | 24.2 |
| 4/26/2015 | 18:17:15 | 57.41 | 51.91 | 417 | 2.73 | 0.37 | 22.8 |
| 4/26/2015 | 18:17:19 | 57.74 | 52.24 | 0 | 4.01 | 0.38 | 0.0 |
| 4/26/2015 | 18:17:23 | 58.07 | 52.57 | 90 | 3.69 | 0.38 | 4.9 |
| 4/26/2015 | 18:17:29 | 58.40 | 52.90 | 72 | 3.46 | 0.40 | 3.9 |
| 4/26/2015 | 18:17:34 | 58.73 | 53.23 | 69 | 3.01 | 0.39 | 3.8 |
| 4/26/2015 | 18:17:39 | 59.06 | 53.56 | 72 | 3.37 | 0.41 | 4.0 |
| 4/26/2015 | 18:17:44 | 59.38 | 53.88 | 66 | 3.20 | 0.39 | 3.6 |
| 4/26/2015 | 18:17:48 | 59.61 | 54.11 | 63 | 3.39 | 0.40 | 3.5 |

## H304 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 18:14:41

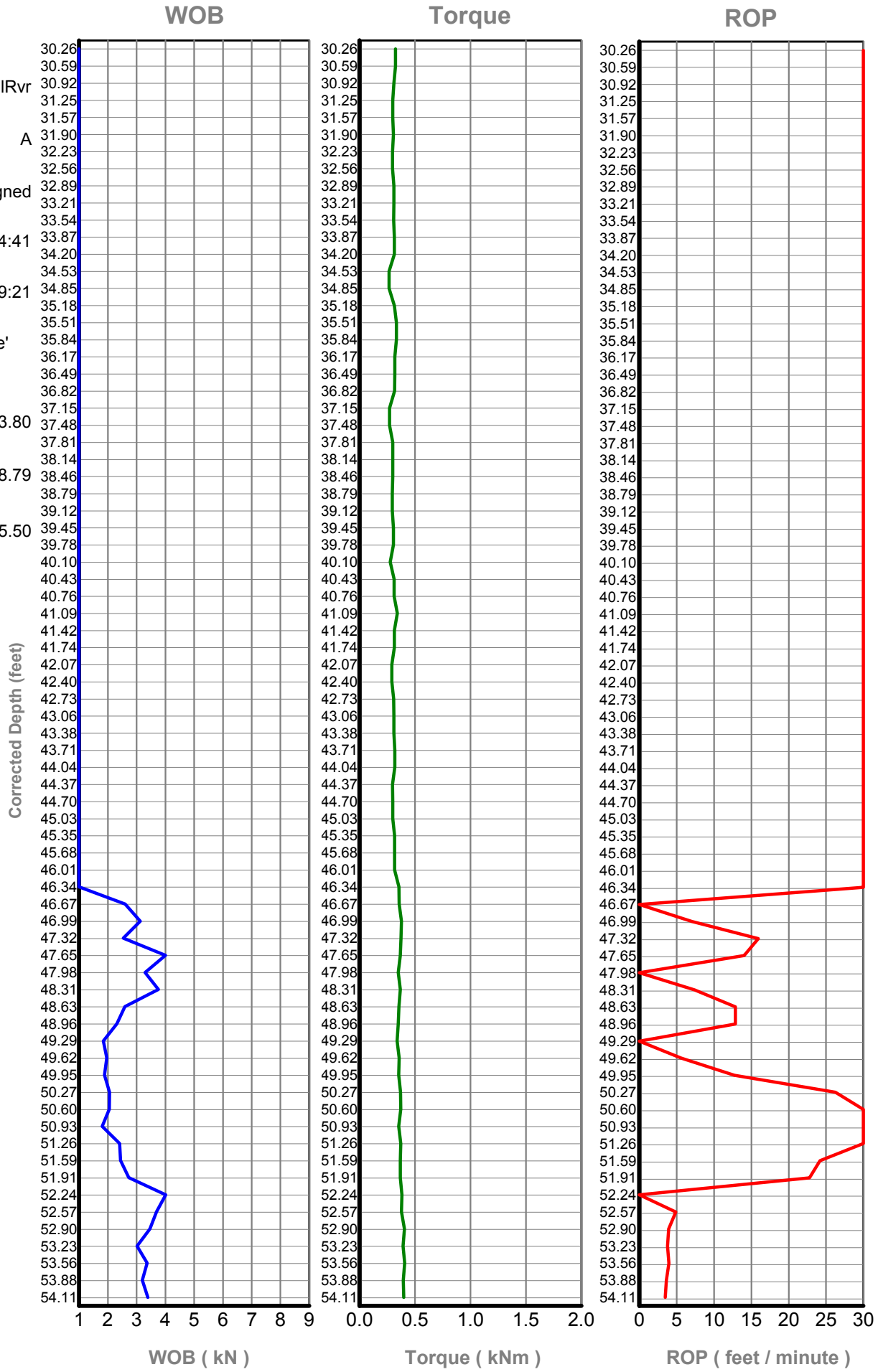
**End Date:**
4/26/2015 18:19:21

**Operator Note:**
'5.5 5.5 b Auto Complete'

**Northing:**
365,623.80

**Easting:**
249,868.79

**Tide (feet):**
5.50



## Hole: H305 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 18:11:48 | 35.76 | 30.26 | 1,089 | 0.37 | 0.34 | 59.6 |
| 4/26/2015 18:11:49 | 36.09 | 30.59 | 1,090 | 0.36 | 0.34 | 59.6 |
| 4/26/2015 18:11:49 | 36.42 | 30.92 | 1,090 | 0.36 | 0.34 | 59.6 |
| 4/26/2015 18:11:49 | 36.75 | 31.25 | 1,086 | 0.36 | 0.34 | 59.4 |
| 4/26/2015 18:11:50 | 37.07 | 31.57 | 1,086 | 0.36 | 0.34 | 59.4 |
| 4/26/2015 18:11:50 | 37.40 | 31.90 | 1,083 | 0.29 | 0.32 | 59.2 |
| 4/26/2015 18:11:50 | 37.73 | 32.23 | 1,102 | 0.27 | 0.29 | 60.2 |
| 4/26/2015 18:11:51 | 38.06 | 32.56 | 1,102 | 0.27 | 0.29 | 60.2 |
| 4/26/2015 18:11:51 | 38.39 | 32.89 | 1,096 | 0.29 | 0.32 | 59.9 |
| 4/26/2015 18:11:52 | 38.71 | 33.21 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 18:11:52 | 39.04 | 33.54 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 18:11:52 | 39.37 | 33.87 | 1,104 | 0.26 | 0.30 | 60.4 |
| 4/26/2015 18:11:53 | 39.70 | 34.20 | 1,104 | 0.26 | 0.30 | 60.4 |
| 4/26/2015 18:11:53 | 40.03 | 34.53 | 1,101 | 0.44 | 0.31 | 60.2 |
| 4/26/2015 18:11:53 | 40.35 | 34.85 | 1,098 | 0.26 | 0.31 | 60.1 |
| 4/26/2015 18:11:54 | 40.68 | 35.18 | 1,098 | 0.26 | 0.31 | 60.1 |
| 4/26/2015 18:11:54 | 41.01 | 35.51 | 1,102 | 0.50 | 0.31 | 60.2 |
| 4/26/2015 18:11:54 | 41.34 | 35.84 | 1,078 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 18:11:55 | 41.67 | 36.17 | 1,078 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 18:11:55 | 41.99 | 36.49 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/26/2015 18:11:55 | 42.32 | 36.82 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/26/2015 18:11:55 | 42.65 | 37.15 | 1,083 | 0.31 | 0.29 | 59.2 |
| 4/26/2015 18:11:56 | 42.98 | 37.48 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 18:11:56 | 43.31 | 37.81 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 18:11:56 | 43.64 | 38.14 | 1,108 | 0.26 | 0.31 | 60.6 |
| 4/26/2015 18:11:57 | 43.96 | 38.46 | 1,108 | 0.26 | 0.31 | 60.6 |
| 4/26/2015 18:11:57 | 44.29 | 38.79 | 1,101 | 0.26 | 0.31 | 60.2 |
| 4/26/2015 18:11:57 | 44.62 | 39.12 | 1,122 | 0.27 | 0.32 | 61.3 |
| 4/26/2015 18:11:58 | 44.95 | 39.45 | 1,122 | 0.27 | 0.32 | 61.3 |
| 4/26/2015 18:11:58 | 45.28 | 39.78 | 1,120 | 0.29 | 0.31 | 61.2 |
| 4/26/2015 18:11:58 | 45.60 | 40.10 | 1,104 | 0.28 | 0.30 | 60.4 |
| 4/26/2015 18:11:59 | 45.93 | 40.43 | 1,104 | 0.28 | 0.30 | 60.4 |
| 4/26/2015 18:11:59 | 46.26 | 40.76 | 1,101 | 0.27 | 0.30 | 60.2 |
| 4/26/2015 18:11:59 | 46.59 | 41.09 | 1,101 | 0.27 | 0.30 | 60.2 |
| 4/26/2015 18:11:59 | 46.92 | 41.42 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 18:12:00 | 47.24 | 41.74 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 18:12:00 | 47.57 | 42.07 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 18:12:00 | 47.90 | 42.40 | 1,101 | 0.26 | 0.31 | 60.2 |
| 4/26/2015 18:12:01 | 48.23 | 42.73 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/26/2015 18:12:02 | 48.56 | 43.06 | 1,101 | 0.27 | 0.31 | 60.2 |
| 4/26/2015 18:12:02 | 48.88 | 43.38 | 1,095 | 0.26 | 0.32 | 59.9 |
| 4/26/2015 18:12:02 | 49.21 | 43.71 | 1,095 | 0.26 | 0.32 | 59.9 |
| 4/26/2015 18:12:02 | 49.54 | 44.04 | 1,098 | 0.27 | 0.32 | 60.1 |
| 4/26/2015 18:12:03 | 49.87 | 44.37 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 18:12:03 | 50.20 | 44.70 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 18:12:03 | 50.53 | 45.03 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/26/2015 18:12:04 | 50.85 | 45.35 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/26/2015 18:12:04 | 51.18 | 45.68 | 1,093 | 0.26 | 0.31 | 59.8 |
| 4/26/2015 18:12:04 | 51.51 | 46.01 | 1,093 | 0.28 | 0.30 | 59.8 |
| 4/26/2015 18:12:05 | 51.84 | 46.34 | 1,093 | 0.28 | 0.30 | 59.8 |
| 4/26/2015 18:12:05 | 52.17 | 46.67 | 1,090 | 0.25 | 0.33 | 59.6 |
| 4/26/2015 18:12:09 | 52.49 | 46.99 | 36 | 2.84 | 0.37 | 2.0 |
| 4/26/2015 18:12:12 | 52.82 | 47.32 | 180 | 3.71 | 0.38 | 9.8 |
| 4/26/2015 18:12:14 | 53.15 | 47.65 | 179 | 6.09 | 0.46 | 9.8 |
| 4/26/2015 18:12:15 | 53.48 | 47.98 | 209 | 2.76 | 0.37 | 11.4 |
| 4/26/2015 18:12:16 | 53.81 | 48.31 | 237 | 2.50 | 0.36 | 13.0 |
| 4/26/2015 18:12:20 | 54.13 | 48.63 | 0 | 3.05 | 0.37 | 0.0 |
| 4/26/2015 18:12:21 | 54.46 | 48.96 | 64 | 3.68 | 0.38 | 3.5 |
| 4/26/2015 18:12:24 | 54.79 | 49.29 | 241 | 3.81 | 0.38 | 13.2 |
| 4/26/2015 18:12:27 | 55.12 | 49.62 | 23 | 3.58 | 0.39 | 1.3 |
| 4/26/2015 18:12:28 | 55.45 | 49.95 | 93 | 2.80 | 0.35 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 18:12:29 | 55.77 | 50.27 | 310 | 3.67 | 0.36 | 17.0 |
| 4/26/2015 | 18:12:30 | 56.10 | 50.60 | 387 | 3.73 | 0.37 | 21.2 |
| 4/26/2015 | 18:12:31 | 56.43 | 50.93 | 460 | 4.72 | 0.36 | 25.1 |
| 4/26/2015 | 18:12:31 | 56.76 | 51.26 | 451 | 2.25 | 0.35 | 24.7 |
| 4/26/2015 | 18:12:32 | 57.09 | 51.59 | 457 | 2.07 | 0.35 | 25.0 |
| 4/26/2015 | 18:12:33 | 57.41 | 51.91 | 506 | 2.05 | 0.35 | 27.7 |
| 4/26/2015 | 18:12:33 | 57.74 | 52.24 | 557 | 2.33 | 0.36 | 30.5 |
| 4/26/2015 | 18:12:35 | 58.07 | 52.57 | 373 | 2.93 | 0.40 | 20.4 |
| 4/26/2015 | 18:12:50 | 58.40 | 52.90 | 40 | 3.00 | 0.40 | 2.2 |
| 4/26/2015 | 18:12:59 | 58.73 | 53.23 | 44 | 2.75 | 0.40 | 2.4 |
| 4/26/2015 | 18:13:07 | 59.06 | 53.56 | 52 | 3.09 | 0.40 | 2.9 |
| 4/26/2015 | 18:13:09 | 59.16 | 53.66 | 43 | 3.75 | 0.40 | 2.4 |

## H305 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 18:09:53

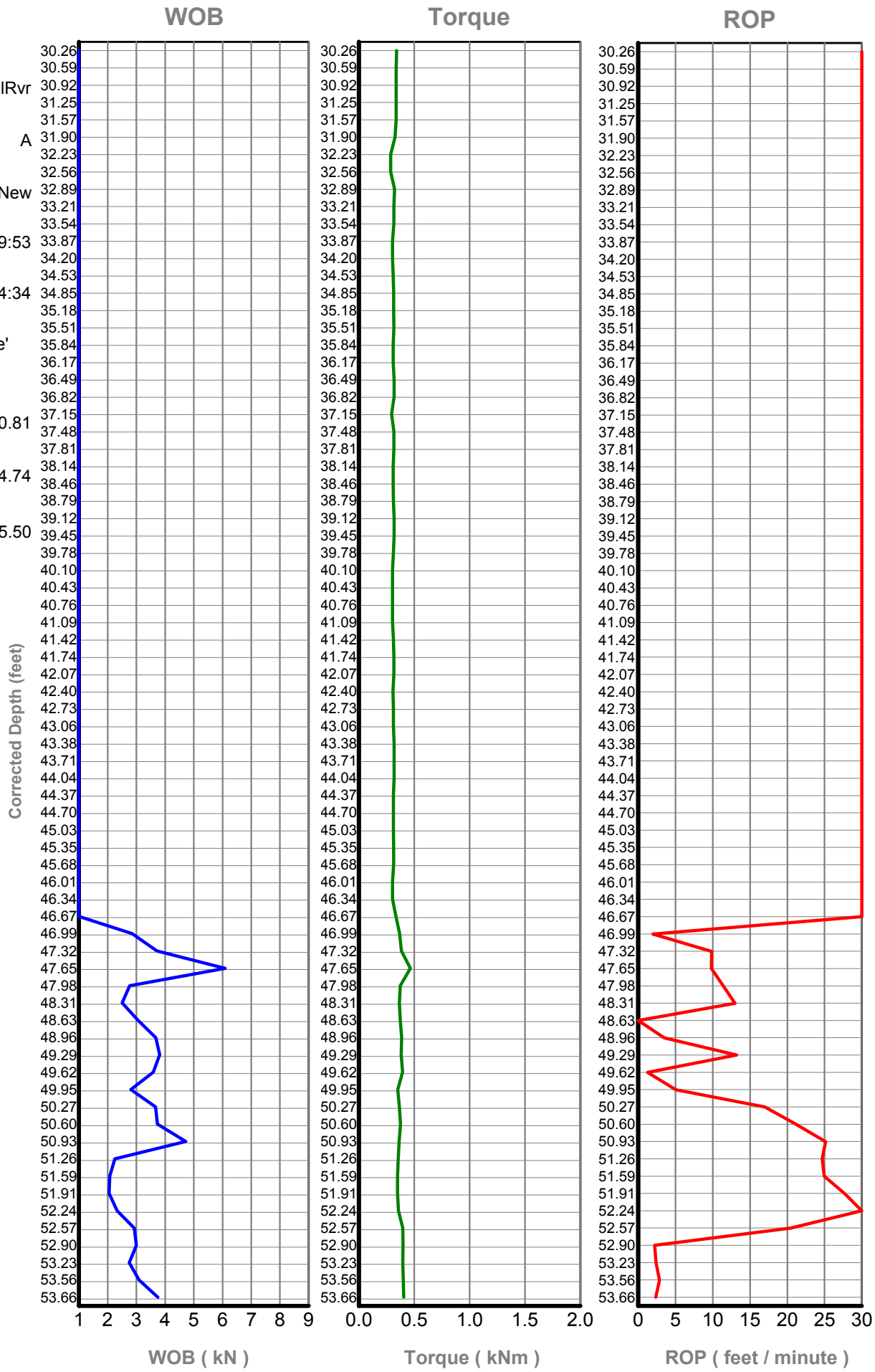
**End Date:**
4/26/2015 18:14:34

**Operator Note:**
'5.5 5.3 b Auto Complete'

**Northing:**
365,660.81

**Easting:**
249,914.74

**Tide (feet):**
5.50



## Hole: H306 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 18:13:13 | 35.76 | 30.26 | 691 | 1.76 | 0.28 | 37.8 |
| 4/26/2015 18:13:13 | 36.09 | 30.59 | 691 | 1.76 | 0.27 | 37.8 |
| 4/26/2015 18:13:14 | 36.42 | 30.92 | 690 | 1.76 | 0.27 | 37.7 |
| 4/26/2015 18:13:14 | 36.75 | 31.25 | 694 | 1.78 | 0.27 | 37.9 |
| 4/26/2015 18:13:15 | 37.07 | 31.57 | 694 | 1.75 | 0.27 | 37.9 |
| 4/26/2015 18:13:15 | 37.40 | 31.90 | 694 | 1.75 | 0.27 | 37.9 |
| 4/26/2015 18:13:16 | 37.73 | 32.23 | 697 | 1.76 | 0.27 | 38.1 |
| 4/26/2015 18:13:17 | 38.06 | 32.56 | 694 | 1.74 | 0.27 | 37.9 |
| 4/26/2015 18:13:17 | 38.39 | 32.89 | 694 | 1.75 | 0.28 | 37.9 |
| 4/26/2015 18:13:18 | 38.71 | 33.21 | 691 | 1.74 | 0.70 | 37.8 |
| 4/26/2015 18:13:18 | 39.04 | 33.54 | 687 | 1.74 | 0.79 | 37.6 |
| 4/26/2015 18:13:19 | 39.37 | 33.87 | 694 | 1.76 | 0.81 | 37.9 |
| 4/26/2015 18:13:19 | 39.70 | 34.20 | 691 | 1.77 | 0.82 | 37.8 |
| 4/26/2015 18:13:20 | 40.03 | 34.53 | 691 | 1.74 | 0.76 | 37.8 |
| 4/26/2015 18:13:20 | 40.35 | 34.85 | 687 | 1.76 | 0.26 | 37.6 |
| 4/26/2015 18:13:21 | 40.68 | 35.18 | 694 | 1.74 | 0.26 | 38.0 |
| 4/26/2015 18:13:21 | 41.01 | 35.51 | 688 | 1.76 | 0.27 | 37.6 |
| 4/26/2015 18:13:22 | 41.34 | 35.84 | 691 | 1.74 | 0.27 | 37.8 |
| 4/26/2015 18:13:22 | 41.67 | 36.17 | 684 | 1.74 | 0.27 | 37.4 |
| 4/26/2015 18:13:23 | 41.99 | 36.49 | 695 | 1.76 | 0.25 | 38.0 |
| 4/26/2015 18:13:23 | 42.32 | 36.82 | 685 | 1.75 | 0.27 | 37.5 |
| 4/26/2015 18:13:24 | 42.65 | 37.15 | 685 | 1.76 | 0.27 | 37.5 |
| 4/26/2015 18:13:24 | 42.98 | 37.48 | 685 | 1.72 | 0.27 | 37.5 |
| 4/26/2015 18:13:25 | 43.31 | 37.81 | 688 | 1.75 | 0.27 | 37.6 |
| 4/26/2015 18:13:25 | 43.64 | 38.14 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 18:13:26 | 43.96 | 38.46 | 685 | 1.73 | 0.27 | 37.5 |
| 4/26/2015 18:13:27 | 44.29 | 38.79 | 681 | 1.76 | 0.28 | 37.2 |
| 4/26/2015 18:13:27 | 44.62 | 39.12 | 682 | 1.76 | 0.27 | 37.3 |
| 4/26/2015 18:13:28 | 44.95 | 39.45 | 679 | 1.75 | 0.27 | 37.1 |
| 4/26/2015 18:13:28 | 45.28 | 39.78 | 679 | 1.74 | 0.28 | 37.1 |
| 4/26/2015 18:13:29 | 45.60 | 40.10 | 679 | 1.74 | 0.27 | 37.1 |
| 4/26/2015 18:13:29 | 45.93 | 40.43 | 686 | 1.72 | 0.27 | 37.5 |
| 4/26/2015 18:13:30 | 46.26 | 40.76 | 682 | 1.76 | 0.27 | 37.3 |
| 4/26/2015 18:13:30 | 46.59 | 41.09 | 686 | 1.76 | 0.27 | 37.5 |
| 4/26/2015 18:13:31 | 46.92 | 41.42 | 678 | 1.74 | 0.27 | 37.1 |
| 4/26/2015 18:13:31 | 47.24 | 41.74 | 685 | 1.74 | 0.27 | 37.5 |
| 4/26/2015 18:13:32 | 47.57 | 42.07 | 682 | 1.75 | 0.27 | 37.3 |
| 4/26/2015 18:13:32 | 47.90 | 42.40 | 682 | 1.76 | 0.27 | 37.3 |
| 4/26/2015 18:13:33 | 48.23 | 42.73 | 676 | 1.77 | 0.27 | 37.0 |
| 4/26/2015 18:13:33 | 48.56 | 43.06 | 679 | 1.74 | 0.27 | 37.1 |
| 4/26/2015 18:13:34 | 48.88 | 43.38 | 680 | 1.74 | 0.27 | 37.2 |
| 4/26/2015 18:13:34 | 49.21 | 43.71 | 680 | 1.73 | 0.27 | 37.2 |
| 4/26/2015 18:13:35 | 49.54 | 44.04 | 680 | 1.76 | 0.27 | 37.2 |
| 4/26/2015 18:13:35 | 49.87 | 44.37 | 668 | 1.75 | 0.27 | 36.5 |
| 4/26/2015 18:13:36 | 50.20 | 44.70 | 668 | 1.74 | 0.27 | 36.5 |
| 4/26/2015 18:13:36 | 50.53 | 45.03 | 680 | 1.71 | 0.27 | 37.2 |
| 4/26/2015 18:13:56 | 50.85 | 45.35 | 118 | 1.72 | 1.05 | 6.5 |
| 4/26/2015 18:13:57 | 51.18 | 45.68 | 189 | 1.75 | 0.89 | 10.4 |
| 4/26/2015 18:13:58 | 51.51 | 46.01 | 348 | 1.70 | 0.89 | 19.0 |
| 4/26/2015 18:13:59 | 51.84 | 46.34 | 401 | 1.70 | 0.89 | 21.9 |
| 4/26/2015 18:14:00 | 52.17 | 46.67 | 416 | 1.70 | 0.98 | 22.7 |
| 4/26/2015 18:14:19 | 52.49 | 46.99 | 122 | 1.74 | 0.97 | 6.6 |
| 4/26/2015 18:14:20 | 52.82 | 47.32 | 259 | 1.70 | 0.90 | 14.1 |
| 4/26/2015 18:14:21 | 53.15 | 47.65 | 339 | 1.84 | 0.95 | 18.5 |
| 4/26/2015 18:14:40 | 53.48 | 47.98 | 57 | 1.73 | 1.29 | 3.1 |
| 4/26/2015 18:14:42 | 53.81 | 48.31 | 183 | 1.72 | 1.46 | 10.0 |
| 4/26/2015 18:14:44 | 54.13 | 48.63 | 168 | 1.74 | 1.36 | 9.2 |
| 4/26/2015 18:14:46 | 54.46 | 48.96 | 179 | 1.74 | 1.10 | 9.8 |
| 4/26/2015 18:15:19 | 54.79 | 49.29 | 61 | 1.73 | 1.13 | 3.3 |
| 4/26/2015 18:15:21 | 55.12 | 49.62 | 191 | 1.70 | 1.43 | 10.4 |
| 4/26/2015 18:15:23 | 55.45 | 49.95 | 228 | 1.73 | 1.23 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 18:15:24 | 55.77 | 50.27 | 231 | 1.48 | 1.47 | 12.6 |
| 4/26/2015 | 18:16:13 | 56.10 | 50.60 | 67 | 1.72 | 1.17 | 3.7 |
| 4/26/2015 | 18:16:15 | 56.43 | 50.93 | 179 | 1.72 | 1.43 | 9.8 |
| 4/26/2015 | 18:16:17 | 56.76 | 51.26 | 200 | 1.72 | 1.03 | 11.0 |
| 4/26/2015 | 18:16:18 | 57.09 | 51.59 | 213 | 1.73 | 1.30 | 11.7 |
| 4/26/2015 | 18:16:28 | 57.41 | 51.91 | 32 | 1.74 | 1.00 | 1.8 |
| 4/26/2015 | 18:16:29 | 57.74 | 52.24 | 165 | 1.71 | 1.05 | 9.0 |
| 4/26/2015 | 18:16:31 | 58.07 | 52.57 | 231 | 1.75 | 0.84 | 12.6 |
| 4/26/2015 | 18:16:32 | 58.40 | 52.90 | 246 | 1.73 | 0.90 | 13.4 |
| 4/26/2015 | 18:16:34 | 58.73 | 53.23 | 234 | 1.73 | 0.97 | 12.8 |
| 4/26/2015 | 18:16:35 | 59.06 | 53.56 | 226 | 1.74 | 0.88 | 12.3 |
| 4/26/2015 | 18:16:37 | 59.38 | 53.88 | 260 | 1.74 | 0.91 | 14.2 |
| 4/26/2015 | 18:16:38 | 59.71 | 54.21 | 272 | 1.74 | 0.94 | 14.9 |
| 4/26/2015 | 18:16:39 | 60.04 | 54.54 | 276 | 1.75 | 0.84 | 15.1 |
| 4/26/2015 | 18:16:40 | 60.37 | 54.87 | 282 | 1.71 | 0.87 | 15.4 |
| 4/26/2015 | 18:16:41 | 60.55 | 55.05 | 286 | 1.74 | 0.85 | 15.7 |

## H306 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 18:11:31

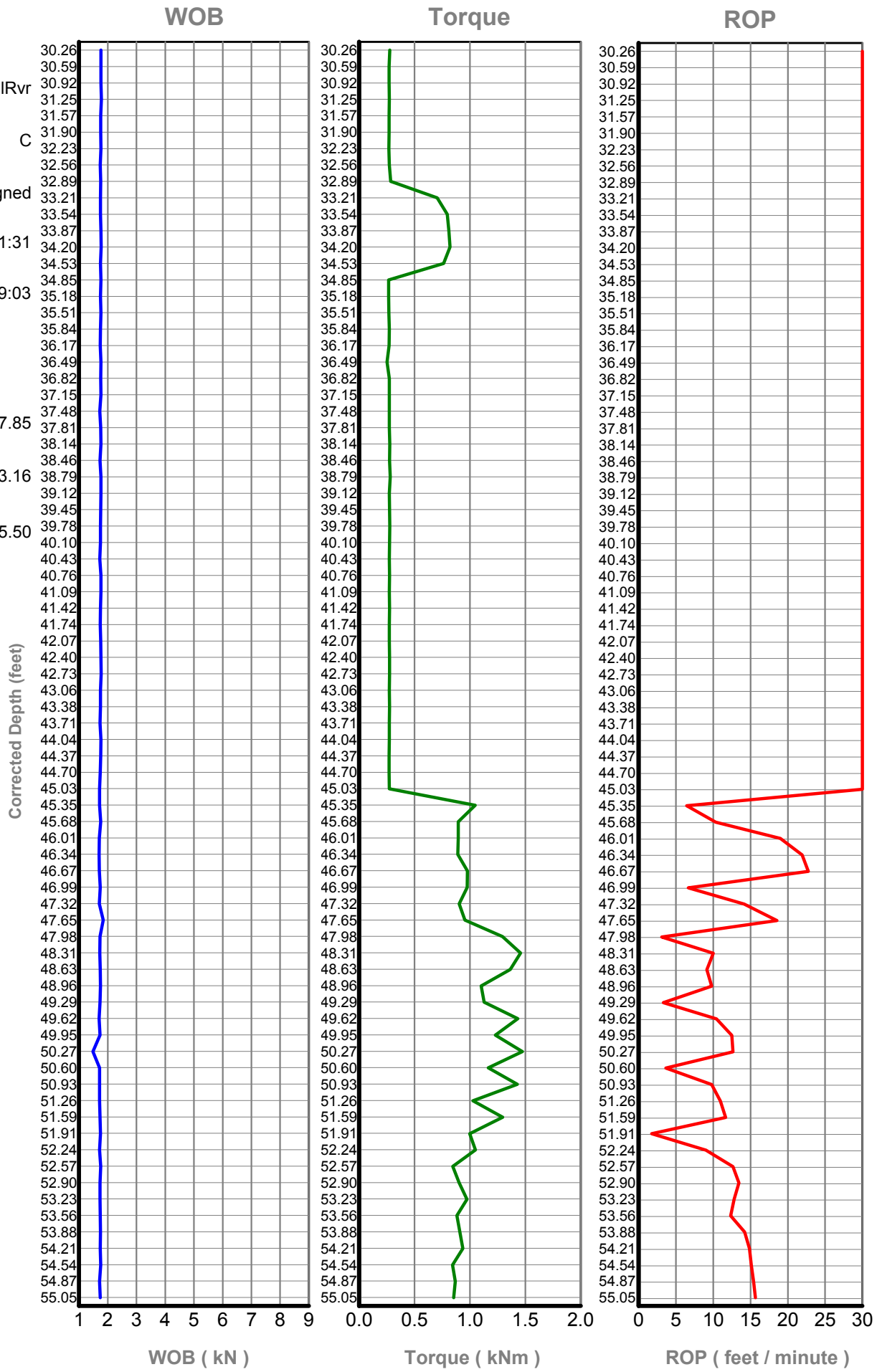
**End Date:**
4/26/2015 18:19:03

**Operator Note:**
'5.5 5.3 C Auto Complete'

**Northing:**
365,707.85

**Easting:**
249,973.16

**Tide (feet):**
5.50



## Hole: H307 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:31:34 | 32.15 | 30.15 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:31:35 | 32.48 | 30.48 | 1,078 | 0.30 | 0.31 | 59.0 |
| 4/26/2015 15:31:35 | 32.81 | 30.81 | 1,078 | 0.30 | 0.31 | 59.0 |
| 4/26/2015 15:31:35 | 33.14 | 31.14 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:31:36 | 33.46 | 31.46 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:31:36 | 33.79 | 31.79 | 1,081 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:31:36 | 34.12 | 32.12 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:31:37 | 34.45 | 32.45 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:31:37 | 34.78 | 32.78 | 1,081 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 15:31:37 | 35.11 | 33.11 | 1,074 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:31:38 | 35.43 | 33.43 | 1,074 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:31:38 | 35.76 | 33.76 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:31:38 | 36.09 | 34.09 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:31:38 | 36.42 | 34.42 | 1,078 | 0.30 | 0.31 | 59.0 |
| 4/26/2015 15:31:39 | 36.75 | 34.75 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:31:39 | 37.07 | 35.07 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:31:39 | 37.40 | 35.40 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:31:40 | 37.73 | 35.73 | 1,078 | 0.30 | 0.30 | 59.0 |
| 4/26/2015 15:31:40 | 38.06 | 36.06 | 1,078 | 0.30 | 0.30 | 59.0 |
| 4/26/2015 15:31:40 | 38.39 | 36.39 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:31:41 | 38.71 | 36.71 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:31:42 | 39.04 | 37.04 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:31:41 | 39.37 | 37.37 | 1,066 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:31:42 | 39.70 | 37.70 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:31:43 | 40.03 | 38.03 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:31:43 | 40.35 | 38.35 | 1,073 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:31:43 | 40.68 | 38.68 | 1,073 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:31:43 | 41.01 | 39.01 | 1,073 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:31:44 | 41.34 | 39.34 | 1,073 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:31:44 | 41.67 | 39.67 | 1,073 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:31:44 | 41.99 | 39.99 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 15:31:45 | 42.32 | 40.32 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 15:31:45 | 42.65 | 40.65 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 15:31:45 | 42.98 | 40.98 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 15:31:46 | 43.31 | 41.31 | 1,063 | 0.29 | 0.31 | 58.1 |
| 4/26/2015 15:31:46 | 43.64 | 41.64 | 1,063 | 0.29 | 0.31 | 58.1 |
| 4/26/2015 15:31:46 | 43.96 | 41.96 | 1,057 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 15:31:47 | 44.29 | 42.29 | 1,058 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 15:31:47 | 44.62 | 42.62 | 1,058 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 15:31:47 | 44.95 | 42.95 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 15:31:48 | 45.28 | 43.28 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 15:31:48 | 45.60 | 43.60 | 1,062 | 0.29 | 0.32 | 58.1 |
| 4/26/2015 15:31:48 | 45.93 | 43.93 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 15:31:49 | 46.26 | 44.26 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 15:31:49 | 46.59 | 44.59 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 15:31:49 | 46.92 | 44.92 | 1,062 | 0.29 | 0.30 | 58.1 |
| 4/26/2015 15:31:50 | 47.24 | 45.24 | 1,062 | 0.29 | 0.30 | 58.1 |
| 4/26/2015 15:31:50 | 47.57 | 45.57 | 1,050 | 0.27 | 0.34 | 57.4 |
| 4/26/2015 15:31:57 | 47.90 | 45.90 | 0 | 3.10 | 0.35 | 0.0 |
| 4/26/2015 15:32:00 | 48.23 | 46.23 | 147 | 4.16 | 0.40 | 8.0 |
| 4/26/2015 15:32:11 | 48.56 | 46.56 | 11 | 4.26 | 0.39 | 0.6 |
| 4/26/2015 15:32:17 | 48.88 | 46.88 | 58 | 3.20 | 0.39 | 3.2 |
| 4/26/2015 15:32:22 | 49.21 | 47.21 | 58 | 3.36 | 0.40 | 3.2 |
| 4/26/2015 15:32:33 | 49.54 | 47.54 | 36 | 3.01 | 0.39 | 2.0 |
| 4/26/2015 15:32:40 | 49.87 | 47.87 | 41 | 3.25 | 0.40 | 2.3 |
| 4/26/2015 15:32:44 | 50.04 | 48.04 | 41 | 3.08 | 0.39 | 2.2 |

## H307 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:29:01

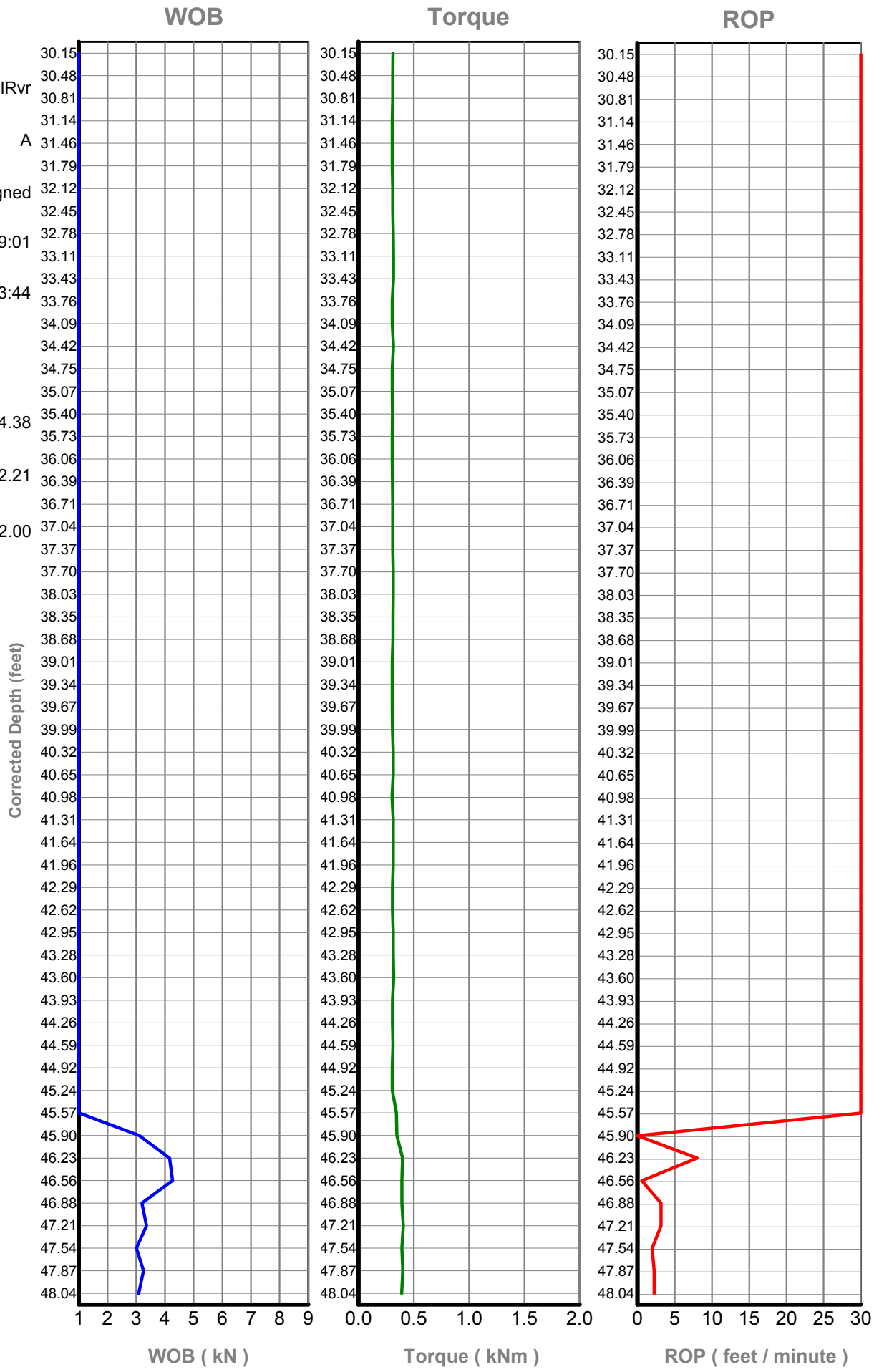
**End Date:**
4/26/2015 15:33:44

**Operator Note:**
'2 1.7 b Auto Complete'

**Northing:**
365,774.38

**Easting:**
250,042.21

**Tide (feet):**
2.00



## Hole: H308 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:36:00 | 32.15 | 30.05 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:36:00 | 32.48 | 30.38 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:36:00 | 32.81 | 30.71 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 15:36:01 | 33.14 | 31.04 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:36:01 | 33.46 | 31.36 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:36:01 | 33.79 | 31.69 | 1,081 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:36:02 | 34.12 | 32.02 | 1,081 | 0.30 | 0.32 | 59.1 |
| 4/26/2015 15:36:03 | 34.45 | 32.35 | 1,081 | 0.30 | 0.32 | 59.1 |
| 4/26/2015 15:36:03 | 34.78 | 32.68 | 1,087 | 0.29 | 0.30 | 59.4 |
| 4/26/2015 15:36:03 | 35.11 | 33.01 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:36:04 | 35.43 | 33.33 | 1,084 | 0.29 | 0.30 | 59.3 |
| 4/26/2015 15:36:04 | 35.76 | 33.66 | 1,081 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:36:04 | 36.09 | 33.99 | 1,081 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:36:04 | 36.42 | 34.32 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:36:05 | 36.75 | 34.65 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 15:36:05 | 37.07 | 34.97 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 15:36:05 | 37.40 | 35.30 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:36:06 | 37.73 | 35.63 | 1,072 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:36:06 | 38.06 | 35.96 | 1,072 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:36:06 | 38.39 | 36.29 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:36:07 | 38.71 | 36.61 | 1,072 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:36:07 | 39.04 | 36.94 | 1,072 | 0.29 | 0.30 | 58.6 |
| 4/26/2015 15:36:07 | 39.37 | 37.27 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:36:08 | 39.70 | 37.60 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:36:08 | 40.03 | 37.93 | 1,069 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 15:36:08 | 40.35 | 38.25 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:36:09 | 40.68 | 38.58 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:36:09 | 41.01 | 38.91 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:36:09 | 41.34 | 39.24 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:36:10 | 41.67 | 39.57 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:36:10 | 41.99 | 39.89 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/26/2015 15:36:10 | 42.32 | 40.22 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:36:11 | 42.65 | 40.55 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:36:11 | 42.98 | 40.88 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:36:11 | 43.31 | 41.21 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:36:11 | 43.64 | 41.54 | 1,069 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:36:12 | 43.96 | 41.86 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:36:13 | 44.29 | 42.19 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 15:36:13 | 44.62 | 42.52 | 1,063 | 0.29 | 0.31 | 58.1 |
| 4/26/2015 15:36:13 | 44.95 | 42.85 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/26/2015 15:36:14 | 45.28 | 43.18 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/26/2015 15:36:14 | 45.60 | 43.50 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/26/2015 15:36:14 | 45.93 | 43.83 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 15:36:15 | 46.26 | 44.16 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 15:36:15 | 46.59 | 44.49 | 1,045 | 0.29 | 0.31 | 57.1 |
| 4/26/2015 15:36:15 | 46.92 | 44.82 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 15:36:16 | 47.24 | 45.14 | 1,054 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 15:36:16 | 47.57 | 45.47 | 1,054 | 0.29 | 0.33 | 57.6 |
| 4/26/2015 15:36:19 | 47.90 | 45.80 | 0 | 4.83 | 0.37 | 0.0 |
| 4/26/2015 15:36:20 | 48.23 | 46.13 | 189 | 2.75 | 0.35 | 10.3 |
| 4/26/2015 15:36:25 | 48.56 | 46.46 | 0 | 4.28 | 0.38 | 0.0 |
| 4/26/2015 15:36:27 | 48.88 | 46.78 | 140 | 3.51 | 0.38 | 7.7 |
| 4/26/2015 15:36:30 | 49.21 | 47.11 | 162 | 2.53 | 0.38 | 8.8 |
| 4/26/2015 15:36:35 | 49.54 | 47.44 | 83 | 3.64 | 0.39 | 4.5 |
| 4/26/2015 15:36:39 | 49.87 | 47.77 | 71 | 3.40 | 0.40 | 3.9 |
| 4/26/2015 15:36:55 | 50.20 | 48.10 | 34 | 2.46 | 0.40 | 1.9 |
| 4/26/2015 15:37:05 | 50.53 | 48.43 | 32 | 4.38 | 0.39 | 1.8 |
| 4/26/2015 15:37:11 | 50.85 | 48.75 | 50 | 2.38 | 0.39 | 2.7 |
| 4/26/2015 15:37:21 | 51.18 | 49.08 | 52 | 3.94 | 0.39 | 2.9 |
| 4/26/2015 15:37:27 | 51.51 | 49.41 | 52 | 3.43 | 0.40 | 2.8 |
| 4/26/2015 15:37:28 | 51.54 | 49.44 | 52 | 3.73 | 0.40 | 2.8 |

## H308 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:33:49

**End Date:**
4/26/2015 15:38:13

**Operator Note:**
'2.1 1.8 b Auto Complete'

**Northing:**
365,810.74

**Easting:**
250,088.76

**Tide (feet):**
2.10



## Hole: H309 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:32:31 | 32.15 | 30.15 | 700 | 1.76 | 0.28 | 38.3 |
| 4/26/2015 15:32:32 | 32.48 | 30.48 | 701 | 1.74 | 0.28 | 38.3 |
| 4/26/2015 15:32:32 | 32.81 | 30.81 | 697 | 1.76 | 0.28 | 38.1 |
| 4/26/2015 15:32:33 | 33.14 | 31.14 | 700 | 1.75 | 0.28 | 38.3 |
| 4/26/2015 15:32:33 | 33.46 | 31.46 | 697 | 1.76 | 0.28 | 38.1 |
| 4/26/2015 15:32:34 | 33.79 | 31.79 | 694 | 1.79 | 0.28 | 37.9 |
| 4/26/2015 15:32:34 | 34.12 | 32.12 | 690 | 1.76 | 0.28 | 37.7 |
| 4/26/2015 15:32:35 | 34.45 | 32.45 | 697 | 1.76 | 0.28 | 38.1 |
| 4/26/2015 15:32:36 | 34.78 | 32.78 | 694 | 1.74 | 0.28 | 37.9 |
| 4/26/2015 15:32:36 | 35.11 | 33.11 | 694 | 1.76 | 0.28 | 37.9 |
| 4/26/2015 15:32:37 | 35.43 | 33.43 | 686 | 1.74 | 0.28 | 37.5 |
| 4/26/2015 15:32:37 | 35.76 | 33.76 | 695 | 1.74 | 0.28 | 38.0 |
| 4/26/2015 15:32:38 | 36.09 | 34.09 | 695 | 1.74 | 0.28 | 38.0 |
| 4/26/2015 15:32:38 | 36.42 | 34.42 | 692 | 1.75 | 0.28 | 37.8 |
| 4/26/2015 15:32:38 | 36.75 | 34.75 | 695 | 1.74 | 0.28 | 38.0 |
| 4/26/2015 15:32:39 | 37.07 | 35.07 | 691 | 1.75 | 0.28 | 37.8 |
| 4/26/2015 15:32:39 | 37.40 | 35.40 | 702 | 1.76 | 0.28 | 38.4 |
| 4/26/2015 15:32:40 | 37.73 | 35.73 | 694 | 1.76 | 0.28 | 37.9 |
| 4/26/2015 15:32:40 | 38.06 | 36.06 | 694 | 1.75 | 0.28 | 37.9 |
| 4/26/2015 15:32:41 | 38.39 | 36.39 | 691 | 1.76 | 0.28 | 37.8 |
| 4/26/2015 15:32:41 | 38.71 | 36.71 | 691 | 1.74 | 0.28 | 37.8 |
| 4/26/2015 15:32:42 | 39.04 | 37.04 | 691 | 1.75 | 0.28 | 37.8 |
| 4/26/2015 15:32:42 | 39.37 | 37.37 | 691 | 1.73 | 0.28 | 37.8 |
| 4/26/2015 15:32:43 | 39.70 | 37.70 | 684 | 1.74 | 0.28 | 37.4 |
| 4/26/2015 15:32:43 | 40.03 | 38.03 | 694 | 1.76 | 0.28 | 37.9 |
| 4/26/2015 15:32:44 | 40.35 | 38.35 | 691 | 1.76 | 0.28 | 37.8 |
| 4/26/2015 15:32:44 | 40.68 | 38.68 | 691 | 1.76 | 0.28 | 37.8 |
| 4/26/2015 15:32:45 | 41.01 | 39.01 | 691 | 1.76 | 0.28 | 37.8 |
| 4/26/2015 15:32:46 | 41.34 | 39.34 | 694 | 1.74 | 0.28 | 37.9 |
| 4/26/2015 15:32:46 | 41.67 | 39.67 | 688 | 1.76 | 0.27 | 37.6 |
| 4/26/2015 15:32:47 | 41.99 | 39.99 | 688 | 1.75 | 0.28 | 37.6 |
| 4/26/2015 15:32:47 | 42.32 | 40.32 | 684 | 1.72 | 0.27 | 37.4 |
| 4/26/2015 15:32:48 | 42.65 | 40.65 | 688 | 1.74 | 0.28 | 37.6 |
| 4/26/2015 15:32:48 | 42.98 | 40.98 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 15:32:49 | 43.31 | 41.31 | 688 | 1.74 | 0.28 | 37.6 |
| 4/26/2015 15:32:49 | 43.64 | 41.64 | 688 | 1.76 | 0.28 | 37.6 |
| 4/26/2015 15:32:50 | 43.96 | 41.96 | 684 | 1.75 | 0.27 | 37.4 |
| 4/26/2015 15:32:50 | 44.29 | 42.29 | 686 | 1.76 | 0.27 | 37.5 |
| 4/26/2015 15:32:51 | 44.62 | 42.62 | 688 | 1.74 | 0.28 | 37.6 |
| 4/26/2015 15:32:51 | 44.95 | 42.95 | 678 | 1.76 | 0.27 | 37.1 |
| 4/26/2015 15:32:52 | 45.28 | 43.28 | 689 | 1.76 | 0.28 | 37.7 |
| 4/26/2015 15:33:07 | 45.60 | 43.60 | 40 | 1.76 | 0.99 | 2.2 |
| 4/26/2015 15:33:09 | 45.93 | 43.93 | 238 | 1.72 | 1.15 | 13.0 |
| 4/26/2015 15:33:11 | 46.26 | 44.26 | 220 | 1.73 | 1.37 | 12.0 |
| 4/26/2015 15:33:32 | 46.59 | 44.59 | 0 | 1.72 | 1.20 | 0.0 |
| 4/26/2015 15:33:34 | 46.92 | 44.92 | 121 | 1.76 | 1.03 | 6.6 |
| 4/26/2015 15:34:18 | 47.24 | 45.24 | 18 | 1.70 | 1.15 | 1.0 |
| 4/26/2015 15:34:20 | 47.57 | 45.57 | 157 | 1.71 | 1.11 | 8.6 |
| 4/26/2015 15:34:46 | 47.90 | 45.90 | 12 | 1.73 | 1.16 | 0.6 |
| 4/26/2015 15:34:48 | 48.23 | 46.23 | 174 | 1.73 | 1.20 | 9.5 |
| 4/26/2015 15:34:49 | 48.56 | 46.56 | 222 | 1.73 | 1.15 | 12.2 |
| 4/26/2015 15:34:51 | 48.88 | 46.88 | 267 | 1.73 | 1.13 | 14.6 |
| 4/26/2015 15:34:52 | 49.21 | 47.21 | 237 | 1.53 | 1.14 | 12.9 |
| 4/26/2015 15:34:56 | 49.54 | 47.54 | 93 | 1.76 | 1.18 | 5.1 |
| 4/26/2015 15:35:00 | 49.87 | 47.87 | 87 | 1.76 | 1.08 | 4.8 |
| 4/26/2015 15:35:03 | 50.20 | 48.20 | 110 | 1.75 | 1.05 | 6.0 |
| 4/26/2015 15:35:09 | 50.53 | 48.53 | 58 | 1.77 | 1.15 | 3.1 |
| 4/26/2015 15:35:16 | 50.85 | 48.85 | 43 | 1.77 | 1.08 | 2.3 |
| 4/26/2015 15:35:24 | 51.18 | 49.18 | 42 | 1.77 | 1.08 | 2.3 |
| 4/26/2015 15:35:33 | 51.51 | 49.51 | 38 | 1.78 | 1.07 | 2.1 |
| 4/26/2015 15:35:40 | 51.83 | 49.83 | 17 | 1.78 | 1.12 | 1.0 |

## H309 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:30:48

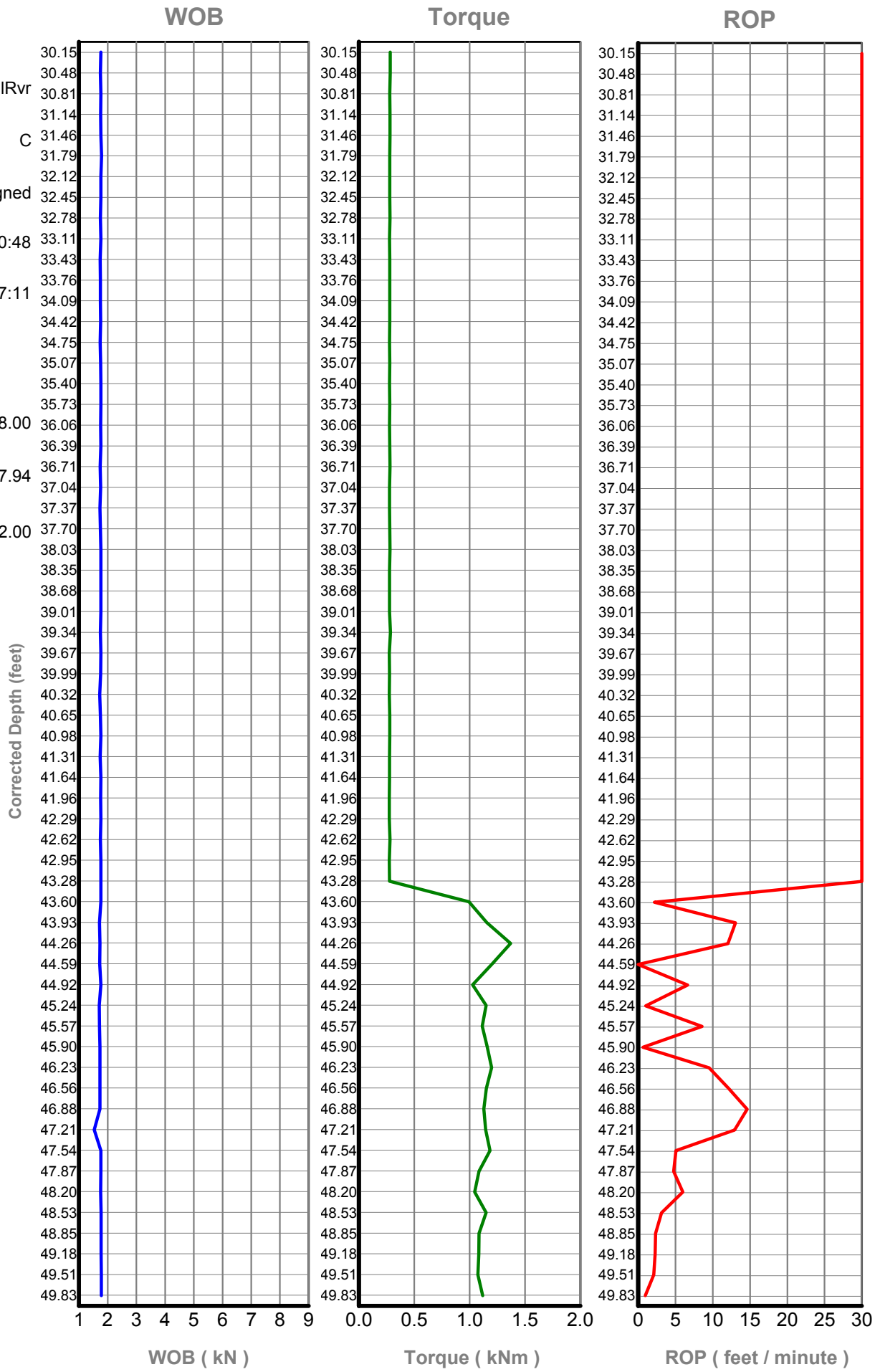
**End Date:**
4/26/2015 15:37:11

**Operator Note:**
'2 1.7 C Auto Complete'

**Northing:**
365,858.00

**Easting:**
250,147.94

**Tide (feet):**
2.00



## Hole: H31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 20:47:45 | 33.46 | 30.26 | 741 | 0.26 | 0.35 | 40.5 |
| 4/24/2015 20:47:45 | 33.79 | 30.59 | 767 | 0.26 | 0.34 | 42.0 |
| 4/24/2015 20:47:46 | 34.12 | 30.92 | 766 | 0.26 | 0.35 | 41.9 |
| 4/24/2015 20:47:46 | 34.45 | 31.25 | 758 | 0.26 | 0.35 | 41.5 |
| 4/24/2015 20:47:47 | 34.78 | 31.58 | 749 | 0.26 | 0.35 | 41.0 |
| 4/24/2015 20:47:48 | 35.11 | 31.91 | 766 | 0.29 | 0.35 | 41.9 |
| 4/24/2015 20:47:48 | 35.43 | 32.23 | 752 | 0.26 | 0.35 | 41.1 |
| 4/24/2015 20:47:49 | 35.76 | 32.56 | 736 | 0.26 | 0.35 | 40.2 |
| 4/24/2015 20:47:49 | 36.09 | 32.89 | 736 | 0.26 | 0.35 | 40.2 |
| 4/24/2015 20:47:50 | 36.42 | 33.22 | 736 | 0.26 | 0.35 | 40.2 |
| 4/24/2015 20:47:50 | 36.75 | 33.55 | 746 | 0.25 | 0.35 | 40.8 |
| 4/24/2015 20:47:50 | 37.07 | 33.87 | 753 | 0.26 | 0.34 | 41.2 |
| 4/24/2015 20:47:51 | 37.40 | 34.20 | 758 | 0.26 | 0.34 | 41.4 |
| 4/24/2015 20:47:51 | 37.73 | 34.53 | 760 | 0.26 | 0.34 | 41.6 |
| 4/24/2015 20:47:52 | 38.06 | 34.86 | 782 | 0.25 | 0.36 | 42.8 |
| 4/24/2015 20:48:15 | 38.39 | 35.19 | 0 | 3.77 | 0.37 | 0.0 |
| 4/24/2015 20:48:17 | 38.71 | 35.51 | 121 | 5.00 | 0.40 | 6.6 |
| 4/24/2015 20:48:56 | 39.04 | 35.84 | 9 | 3.92 | 0.39 | 0.5 |
| 4/24/2015 20:48:58 | 39.37 | 36.17 | 131 | 4.73 | 0.40 | 7.1 |
| 4/24/2015 20:49:02 | 39.70 | 36.50 | 107 | 4.44 | 0.40 | 5.8 |
| 4/24/2015 20:49:05 | 40.03 | 36.83 | 103 | 4.03 | 0.40 | 5.6 |
| 4/24/2015 20:49:08 | 40.35 | 37.15 | 110 | 4.13 | 0.40 | 6.0 |
| 4/24/2015 20:49:12 | 40.68 | 37.48 | 101 | 4.59 | 0.40 | 5.5 |
| 4/24/2015 20:49:15 | 41.01 | 37.81 | 124 | 5.12 | 0.40 | 6.8 |
| 4/24/2015 20:49:17 | 41.34 | 38.14 | 141 | 4.92 | 0.39 | 7.7 |
| 4/24/2015 20:49:20 | 41.67 | 38.47 | 148 | 4.19 | 0.40 | 8.1 |
| 4/24/2015 20:49:23 | 41.99 | 38.79 | 110 | 4.65 | 0.40 | 6.0 |
| 4/24/2015 20:49:27 | 42.32 | 39.12 | 106 | 4.72 | 0.41 | 5.8 |
| 4/24/2015 20:49:29 | 42.65 | 39.45 | 116 | 5.15 | 0.40 | 6.4 |
| 4/24/2015 20:49:32 | 42.98 | 39.78 | 147 | 5.07 | 0.40 | 8.0 |
| 4/24/2015 20:49:35 | 43.31 | 40.11 | 133 | 5.06 | 0.40 | 7.3 |
| 4/24/2015 20:49:37 | 43.64 | 40.44 | 150 | 5.12 | 0.40 | 8.2 |
| 4/24/2015 20:49:49 | 43.96 | 40.76 | 0 | 6.57 | 0.40 | 0.0 |
| 4/24/2015 20:49:57 | 44.29 | 41.09 | 111 | 4.89 | 0.40 | 6.1 |
| 4/24/2015 20:49:59 | 44.62 | 41.42 | 122 | 4.78 | 0.40 | 6.7 |
| 4/24/2015 20:50:02 | 44.95 | 41.75 | 146 | 4.41 | 0.40 | 8.0 |
| 4/24/2015 20:50:04 | 45.28 | 42.08 | 141 | 4.72 | 0.40 | 7.7 |
| 4/24/2015 20:50:07 | 45.60 | 42.40 | 153 | 5.75 | 0.40 | 8.4 |
| 4/24/2015 20:50:09 | 45.93 | 42.73 | 150 | 4.11 | 0.40 | 8.2 |
| 4/24/2015 20:50:12 | 46.26 | 43.06 | 126 | 4.92 | 0.40 | 6.9 |
| 4/24/2015 20:50:15 | 46.59 | 43.39 | 123 | 4.43 | 0.40 | 6.7 |
| 4/24/2015 20:50:17 | 46.92 | 43.72 | 147 | 4.91 | 0.40 | 8.0 |
| 4/24/2015 20:50:19 | 47.24 | 44.04 | 170 | 4.87 | 0.40 | 9.3 |
| 4/24/2015 20:50:21 | 47.57 | 44.37 | 162 | 4.52 | 0.40 | 8.8 |
| 4/24/2015 20:50:24 | 47.90 | 44.70 | 130 | 4.28 | 0.40 | 7.1 |
| 4/24/2015 20:50:28 | 48.23 | 45.03 | 99 | 4.20 | 0.41 | 5.4 |
| 4/24/2015 20:50:31 | 48.56 | 45.36 | 109 | 4.51 | 0.40 | 6.0 |
| 4/24/2015 20:50:34 | 48.88 | 45.68 | 121 | 4.26 | 0.40 | 6.6 |
| 4/24/2015 20:50:37 | 49.21 | 46.01 | 124 | 4.19 | 0.40 | 6.8 |
| 4/24/2015 20:50:40 | 49.54 | 46.34 | 130 | 4.31 | 0.39 | 7.1 |
| 4/24/2015 20:50:42 | 49.87 | 46.67 | 138 | 4.48 | 0.40 | 7.5 |
| 4/24/2015 20:50:45 | 50.20 | 47.00 | 149 | 4.36 | 0.40 | 8.1 |
| 4/24/2015 20:50:47 | 50.53 | 47.33 | 139 | 5.08 | 0.40 | 7.6 |
| 4/24/2015 20:50:50 | 50.85 | 47.65 | 132 | 4.15 | 0.40 | 7.2 |
| 4/24/2015 20:50:53 | 51.18 | 47.98 | 128 | 4.20 | 0.40 | 7.0 |
| 4/24/2015 20:50:55 | 51.51 | 48.31 | 141 | 4.13 | 0.40 | 7.7 |
| 4/24/2015 20:50:58 | 51.84 | 48.64 | 139 | 4.07 | 0.40 | 7.6 |
| 4/24/2015 20:51:00 | 52.17 | 48.97 | 133 | 4.52 | 0.40 | 7.3 |
| 4/24/2015 20:51:03 | 52.49 | 49.29 | 141 | 4.65 | 0.40 | 7.7 |
| 4/24/2015 20:51:06 | 52.82 | 49.62 | 148 | 4.08 | 0.40 | 8.1 |
| 4/24/2015 20:51:09 | 53.15 | 49.95 | 106 | 4.29 | 0.40 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 20:51:12 | 53.48 | 50.28 | 121 | 4.19 | 0.40 | 6.6 |
| 4/24/2015 | 20:51:28 | 53.81 | 50.61 | 54 | 3.95 | 0.40 | 3.0 |
| 4/24/2015 | 20:51:31 | 54.13 | 50.93 | 95 | 3.96 | 0.41 | 5.2 |
| 4/24/2015 | 20:51:36 | 54.46 | 51.26 | 87 | 3.89 | 0.41 | 4.7 |
| 4/24/2015 | 20:51:40 | 54.79 | 51.59 | 80 | 4.27 | 0.40 | 4.4 |
| 4/24/2015 | 20:51:45 | 55.12 | 51.92 | 81 | 3.62 | 0.40 | 4.4 |
| 4/24/2015 | 20:51:48 | 55.45 | 52.25 | 102 | 3.76 | 0.41 | 5.6 |
| 4/24/2015 | 20:51:52 | 55.77 | 52.57 | 83 | 4.06 | 0.41 | 4.5 |
| 4/24/2015 | 20:52:25 | 56.10 | 52.90 | 0 | 3.57 | 0.39 | 0.0 |
| 4/24/2015 | 20:52:28 | 56.43 | 53.23 | 111 | 4.09 | 0.41 | 6.1 |
| 4/24/2015 | 20:52:33 | 56.76 | 53.56 | 64 | 3.58 | 0.41 | 3.5 |
| 4/24/2015 | 20:52:39 | 57.09 | 53.89 | 61 | 3.77 | 0.41 | 3.3 |
| 4/24/2015 | 20:52:45 | 57.38 | 54.18 | 60 | 4.56 | 0.41 | 3.3 |

## H31 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/24/2015 20:41:16

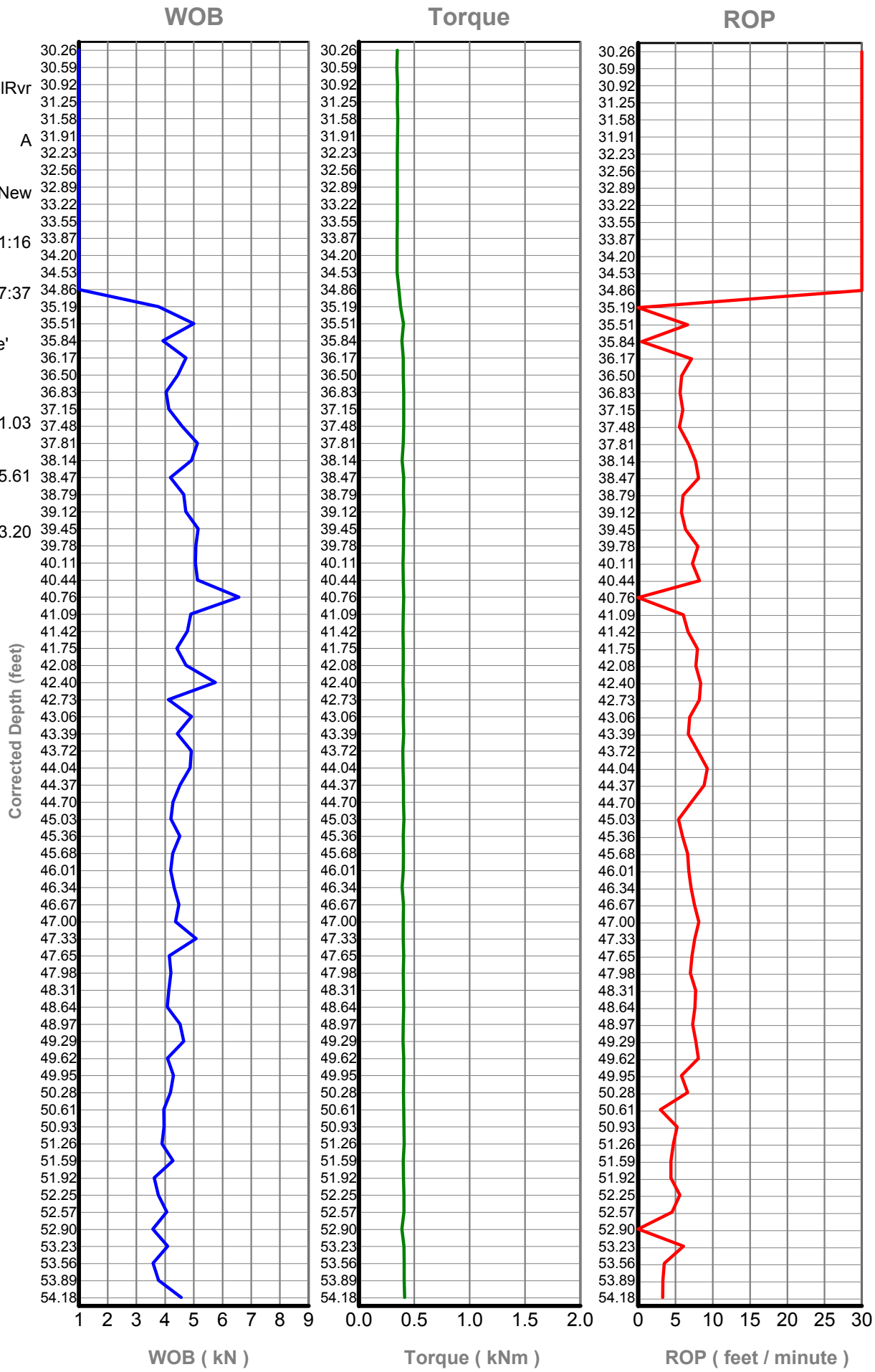
**End Date:**
4/24/2015 20:57:37

**Operator Note:**
'3.2 3.4 b Auto Complete'

**Northing:**
367,021.03

**Easting:**
250,755.61

**Tide (feet):**
3.20



## Hole: H310 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:58:08 | 33.46 | 30.06 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 10:58:08 | 33.79 | 30.39 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 10:58:08 | 34.12 | 30.72 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 10:58:09 | 34.45 | 31.05 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 10:58:09 | 34.78 | 31.38 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 10:58:09 | 35.11 | 31.71 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 10:58:10 | 35.43 | 32.03 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 10:58:10 | 35.76 | 32.36 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 10:58:10 | 36.09 | 32.69 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/26/2015 10:58:11 | 36.42 | 33.02 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/26/2015 10:58:11 | 36.75 | 33.35 | 1,026 | 0.35 | 0.32 | 56.1 |
| 4/26/2015 10:58:11 | 37.07 | 33.67 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/26/2015 10:58:12 | 37.40 | 34.00 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/26/2015 10:58:12 | 37.73 | 34.33 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/26/2015 10:58:12 | 38.06 | 34.66 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 10:58:13 | 38.39 | 34.99 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 10:58:13 | 38.71 | 35.31 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 10:58:13 | 39.04 | 35.64 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 10:58:14 | 39.37 | 35.97 | 1,017 | 0.31 | 0.31 | 55.6 |
| 4/26/2015 10:58:14 | 39.70 | 36.30 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/26/2015 10:58:14 | 40.03 | 36.63 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 10:58:15 | 40.35 | 36.95 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 10:58:15 | 40.68 | 37.28 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 10:58:16 | 41.01 | 37.61 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 10:58:16 | 41.34 | 37.94 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 10:58:16 | 41.67 | 38.27 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 10:58:17 | 41.99 | 38.59 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 10:58:17 | 42.32 | 38.92 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 10:58:17 | 42.65 | 39.25 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 10:58:18 | 42.98 | 39.58 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 10:58:18 | 43.31 | 39.91 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 10:58:18 | 43.64 | 40.24 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 10:58:19 | 43.96 | 40.56 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 10:58:19 | 44.29 | 40.89 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 10:58:19 | 44.62 | 41.22 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 10:58:20 | 44.95 | 41.55 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 10:58:20 | 45.28 | 41.88 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 10:58:20 | 45.60 | 42.20 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 10:58:21 | 45.93 | 42.53 | 1,026 | 0.36 | 0.31 | 56.1 |
| 4/26/2015 10:58:21 | 46.26 | 42.86 | 1,026 | 0.36 | 0.31 | 56.1 |
| 4/26/2015 10:58:21 | 46.59 | 43.19 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 10:58:22 | 46.92 | 43.52 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:58:22 | 47.24 | 43.84 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:58:22 | 47.57 | 44.17 | 1,023 | 0.29 | 0.34 | 56.0 |
| 4/26/2015 10:58:28 | 47.90 | 44.50 | 29 | 3.88 | 0.36 | 1.6 |
| 4/26/2015 10:58:28 | 48.23 | 44.83 | 126 | 3.43 | 0.37 | 6.9 |
| 4/26/2015 10:58:30 | 48.56 | 45.16 | 266 | 5.66 | 0.39 | 14.5 |
| 4/26/2015 10:58:32 | 48.88 | 45.48 | 161 | 4.38 | 0.36 | 8.8 |
| 4/26/2015 10:58:33 | 49.21 | 45.81 | 253 | 3.60 | 0.36 | 13.8 |
| 4/26/2015 10:58:50 | 49.54 | 46.14 | 55 | 3.64 | 0.39 | 3.0 |
| 4/26/2015 10:58:56 | 49.87 | 46.47 | 55 | 3.89 | 0.39 | 3.0 |
| 4/26/2015 10:59:02 | 50.20 | 46.80 | 52 | 3.75 | 0.39 | 2.8 |
| 4/26/2015 10:59:10 | 50.53 | 47.13 | 41 | 3.20 | 0.39 | 2.2 |
| 4/26/2015 10:59:14 | 50.71 | 47.31 | 40 | 3.14 | 0.39 | 2.2 |

## H310 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 10:56:25

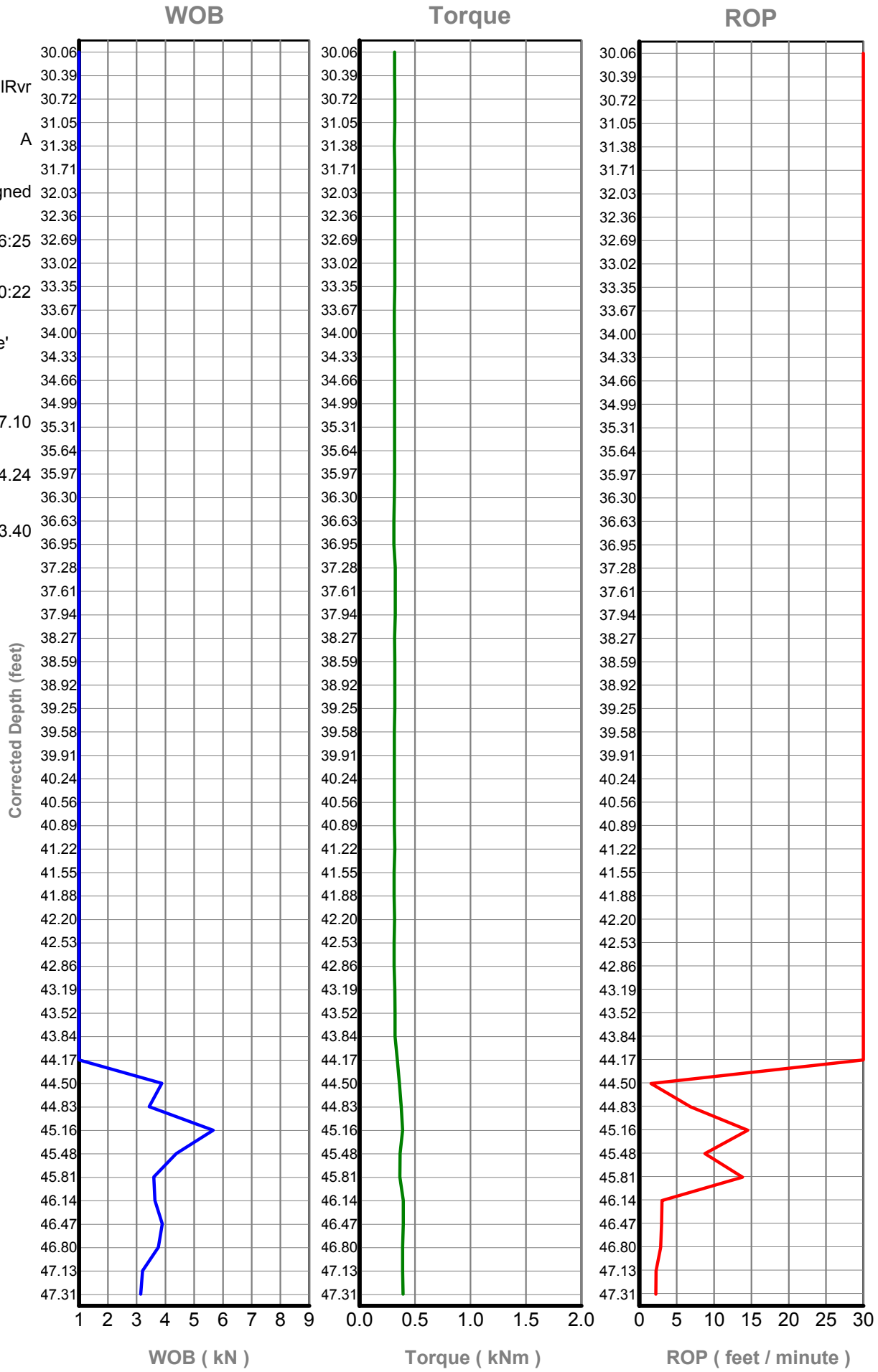
**End Date:**
4/26/2015 11:00:22

**Operator Note:**
'3.4 3.7 b Auto Complete'

**Northing:**
365,907.10

**Easting:**
250,214.24

**Tide (feet):**
3.40



## Hole: H311 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:53:32 | 33.79 | 30.19 | 1,015 | 0.30 | 0.31 | 55.5 |
| 4/26/2015 10:53:32 | 34.12 | 30.52 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 10:53:32 | 34.45 | 30.85 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 10:53:33 | 34.78 | 31.18 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 10:53:33 | 35.11 | 31.51 | 1,012 | 0.31 | 0.31 | 55.3 |
| 4/26/2015 10:53:33 | 35.43 | 31.83 | 1,018 | 0.38 | 0.32 | 55.7 |
| 4/26/2015 10:53:34 | 35.76 | 32.16 | 1,000 | 0.39 | 0.32 | 54.7 |
| 4/26/2015 10:53:34 | 36.09 | 32.49 | 1,000 | 0.39 | 0.32 | 54.7 |
| 4/26/2015 10:53:34 | 36.42 | 32.82 | 1,000 | 0.44 | 0.32 | 54.7 |
| 4/26/2015 10:53:35 | 36.75 | 33.15 | 986 | 0.41 | 0.33 | 53.9 |
| 4/26/2015 10:53:36 | 37.07 | 33.47 | 986 | 0.41 | 0.33 | 53.9 |
| 4/26/2015 10:53:36 | 37.40 | 33.80 | 975 | 0.43 | 0.33 | 53.3 |
| 4/26/2015 10:53:36 | 37.73 | 34.13 | 958 | 0.44 | 0.33 | 52.4 |
| 4/26/2015 10:53:37 | 38.06 | 34.46 | 927 | 0.44 | 0.32 | 50.7 |
| 4/26/2015 10:53:37 | 38.39 | 34.79 | 927 | 0.44 | 0.32 | 50.7 |
| 4/26/2015 10:53:37 | 38.71 | 35.11 | 927 | 0.43 | 0.33 | 50.7 |
| 4/26/2015 10:53:38 | 39.04 | 35.44 | 949 | 0.43 | 0.32 | 51.9 |
| 4/26/2015 10:53:38 | 39.37 | 35.77 | 950 | 0.41 | 0.32 | 52.0 |
| 4/26/2015 10:53:39 | 39.70 | 36.10 | 950 | 0.41 | 0.32 | 52.0 |
| 4/26/2015 10:53:39 | 40.03 | 36.43 | 944 | 0.41 | 0.33 | 51.6 |
| 4/26/2015 10:53:39 | 40.35 | 36.75 | 952 | 0.33 | 0.32 | 52.1 |
| 4/26/2015 10:53:40 | 40.68 | 37.08 | 952 | 0.33 | 0.32 | 52.1 |
| 4/26/2015 10:53:40 | 41.01 | 37.41 | 978 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 10:53:40 | 41.34 | 37.74 | 971 | 0.31 | 0.32 | 53.1 |
| 4/26/2015 10:53:41 | 41.67 | 38.07 | 971 | 0.31 | 0.32 | 53.1 |
| 4/26/2015 10:53:41 | 41.99 | 38.39 | 980 | 0.33 | 0.31 | 53.6 |
| 4/26/2015 10:53:41 | 42.32 | 38.72 | 992 | 0.34 | 0.32 | 54.2 |
| 4/26/2015 10:53:42 | 42.65 | 39.05 | 992 | 0.34 | 0.32 | 54.2 |
| 4/26/2015 10:53:42 | 42.98 | 39.38 | 1,000 | 0.32 | 0.31 | 54.7 |
| 4/26/2015 10:53:42 | 43.31 | 39.71 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:53:43 | 43.64 | 40.04 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 10:53:43 | 43.96 | 40.36 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 10:53:43 | 44.29 | 40.69 | 1,003 | 0.33 | 0.31 | 54.8 |
| 4/26/2015 10:53:44 | 44.62 | 41.02 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/26/2015 10:53:44 | 44.95 | 41.35 | 1,009 | 0.33 | 0.31 | 55.2 |
| 4/26/2015 10:53:44 | 45.28 | 41.68 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 10:53:45 | 45.60 | 42.00 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/26/2015 10:53:46 | 45.93 | 42.33 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/26/2015 10:53:46 | 46.26 | 42.66 | 1,003 | 0.33 | 0.31 | 54.9 |
| 4/26/2015 10:53:46 | 46.59 | 42.99 | 1,003 | 0.30 | 0.31 | 54.9 |
| 4/26/2015 10:53:47 | 46.92 | 43.32 | 1,003 | 0.30 | 0.31 | 54.9 |
| 4/26/2015 10:53:47 | 47.24 | 43.64 | 976 | 0.30 | 0.31 | 53.4 |
| 4/26/2015 10:53:47 | 47.57 | 43.97 | 976 | 0.35 | 0.31 | 53.4 |
| 4/26/2015 10:53:48 | 47.90 | 44.30 | 976 | 0.35 | 0.31 | 53.4 |
| 4/26/2015 10:53:48 | 48.23 | 44.63 | 993 | 0.31 | 0.31 | 54.3 |
| 4/26/2015 10:53:48 | 48.56 | 44.96 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 10:53:49 | 48.88 | 45.28 | 996 | 0.31 | 0.32 | 54.5 |
| 4/26/2015 10:53:49 | 49.21 | 45.61 | 999 | 0.30 | 0.33 | 54.6 |
| 4/26/2015 10:53:55 | 49.54 | 45.94 | 46 | 3.23 | 0.36 | 2.5 |
| 4/26/2015 10:53:55 | 49.87 | 46.27 | 174 | 3.52 | 0.37 | 9.5 |
| 4/26/2015 10:53:57 | 50.20 | 46.60 | 346 | 3.51 | 0.37 | 18.9 |
| 4/26/2015 10:53:58 | 50.53 | 46.93 | 295 | 4.26 | 0.36 | 16.1 |
| 4/26/2015 10:53:59 | 50.85 | 47.25 | 313 | 3.12 | 0.35 | 17.1 |
| 4/26/2015 10:54:03 | 51.18 | 47.58 | 49 | 3.79 | 0.37 | 2.7 |
| 4/26/2015 10:54:20 | 51.51 | 47.91 | 15 | 3.66 | 0.40 | 0.8 |
| 4/26/2015 10:54:39 | 51.84 | 48.24 | 40 | 3.31 | 0.40 | 2.2 |
| 4/26/2015 10:54:47 | 52.17 | 48.57 | 43 | 3.09 | 0.39 | 2.4 |
| 4/26/2015 10:54:56 | 52.49 | 48.89 | 42 | 3.16 | 0.40 | 2.3 |
| 4/26/2015 10:54:59 | 52.62 | 49.02 | 42 | 3.31 | 0.40 | 2.3 |

## H311 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 10:51:10

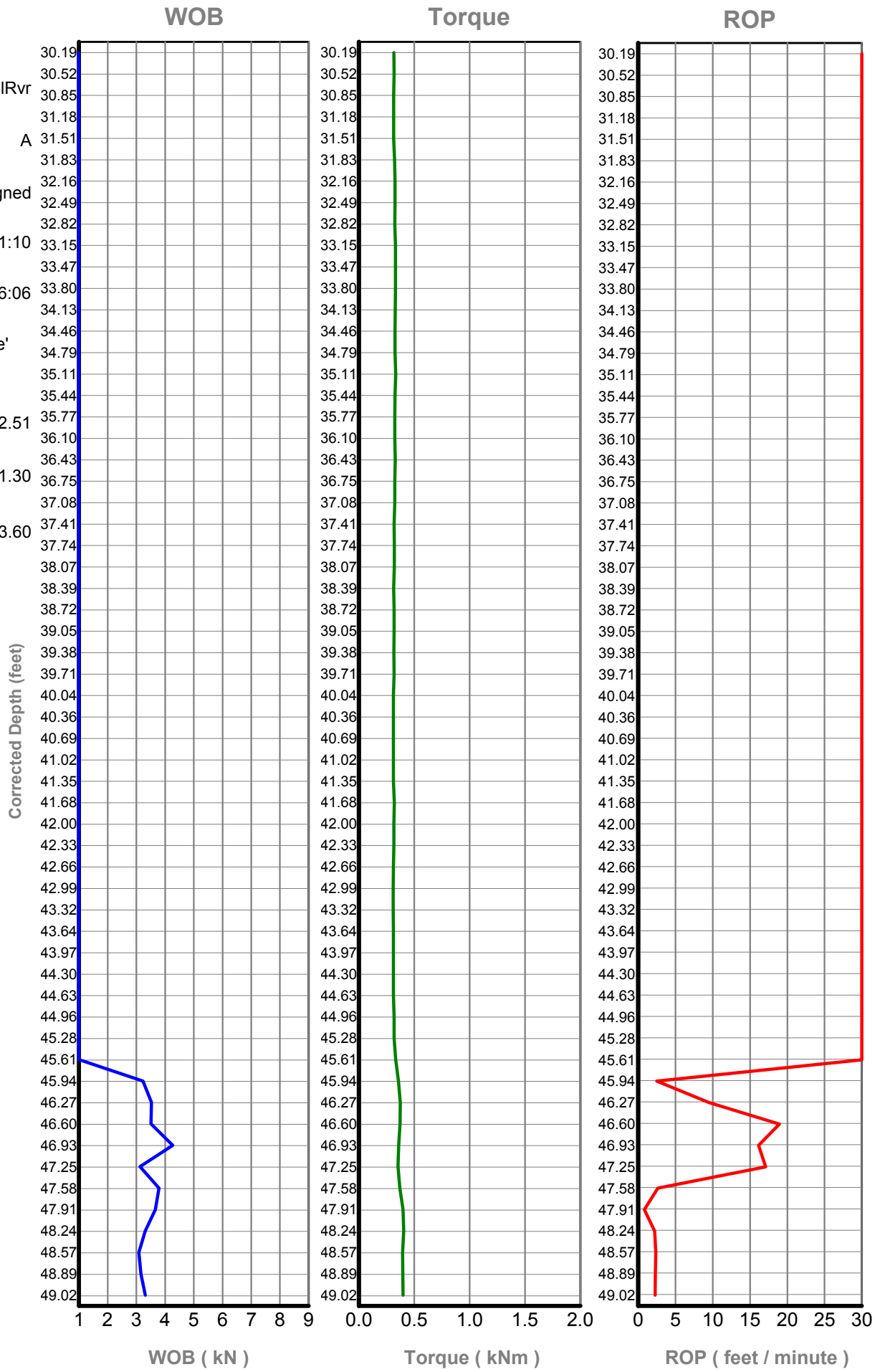
**End Date:**
4/26/2015 10:56:06

**Operator Note:**
'3.6 3.7 b Auto Complete'

**Northing:**
365,942.51

**Easting:**
250,261.30

**Tide (feet):**
3.60



## Hole: H312 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:55:10 | 33.46 | 30.06 | 633 | 1.79 | 0.29 | 34.6 |
| 4/26/2015 10:55:11 | 33.79 | 30.39 | 633 | 1.79 | 0.29 | 34.6 |
| 4/26/2015 10:55:11 | 34.12 | 30.72 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 10:55:12 | 34.45 | 31.05 | 633 | 1.79 | 0.29 | 34.6 |
| 4/26/2015 10:55:12 | 34.78 | 31.38 | 633 | 1.78 | 0.29 | 34.6 |
| 4/26/2015 10:55:13 | 35.11 | 31.71 | 626 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 10:55:13 | 35.43 | 32.03 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 10:55:14 | 35.76 | 32.36 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 10:55:14 | 36.09 | 32.69 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 10:55:15 | 36.42 | 33.02 | 640 | 1.77 | 0.29 | 35.0 |
| 4/26/2015 10:55:16 | 36.75 | 33.35 | 633 | 1.79 | 0.29 | 34.6 |
| 4/26/2015 10:55:17 | 37.07 | 33.67 | 634 | 1.77 | 0.29 | 34.7 |
| 4/26/2015 10:55:18 | 37.40 | 34.00 | 634 | 1.77 | 0.29 | 34.7 |
| 4/26/2015 10:55:17 | 37.73 | 34.33 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 10:55:18 | 38.06 | 34.66 | 630 | 1.78 | 0.29 | 34.5 |
| 4/26/2015 10:55:19 | 38.39 | 34.99 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 10:55:19 | 38.71 | 35.31 | 627 | 1.78 | 0.29 | 34.3 |
| 4/26/2015 10:55:20 | 39.04 | 35.64 | 629 | 1.77 | 0.29 | 34.4 |
| 4/26/2015 10:55:20 | 39.37 | 35.97 | 630 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 10:55:21 | 39.70 | 36.30 | 637 | 1.77 | 0.29 | 34.8 |
| 4/26/2015 10:55:22 | 40.03 | 36.63 | 636 | 1.76 | 0.30 | 34.8 |
| 4/26/2015 10:55:22 | 40.35 | 36.95 | 631 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 10:55:23 | 40.68 | 37.28 | 631 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 10:55:23 | 41.01 | 37.61 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 10:55:24 | 41.34 | 37.94 | 634 | 1.77 | 0.29 | 34.7 |
| 4/26/2015 10:55:24 | 41.67 | 38.27 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 10:55:25 | 41.99 | 38.59 | 631 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 10:55:25 | 42.32 | 38.92 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 10:55:26 | 42.65 | 39.25 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 10:55:26 | 42.98 | 39.58 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 10:55:27 | 43.31 | 39.91 | 627 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 10:55:28 | 43.64 | 40.24 | 623 | 1.78 | 0.29 | 34.0 |
| 4/26/2015 10:55:29 | 43.96 | 40.56 | 628 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 10:55:29 | 44.29 | 40.89 | 631 | 1.78 | 0.29 | 34.5 |
| 4/26/2015 10:55:30 | 44.62 | 41.22 | 625 | 1.78 | 0.29 | 34.2 |
| 4/26/2015 10:55:30 | 44.95 | 41.55 | 628 | 1.79 | 0.30 | 34.3 |
| 4/26/2015 10:55:31 | 45.28 | 41.88 | 632 | 1.77 | 0.29 | 34.6 |
| 4/26/2015 10:55:31 | 45.60 | 42.20 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 10:55:32 | 45.93 | 42.53 | 621 | 1.79 | 0.29 | 33.9 |
| 4/26/2015 10:55:32 | 46.26 | 42.86 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 10:55:33 | 46.59 | 43.19 | 627 | 1.79 | 0.30 | 34.3 |
| 4/26/2015 10:55:33 | 46.92 | 43.52 | 627 | 1.82 | 0.29 | 34.3 |
| 4/26/2015 10:55:34 | 47.24 | 43.84 | 620 | 1.78 | 0.30 | 33.9 |
| 4/26/2015 10:55:35 | 47.57 | 44.17 | 620 | 1.78 | 0.30 | 33.9 |
| 4/26/2015 10:55:35 | 47.90 | 44.50 | 614 | 1.76 | 0.29 | 33.5 |
| 4/26/2015 10:55:36 | 48.23 | 44.83 | 621 | 1.79 | 0.30 | 34.0 |
| 4/26/2015 10:55:36 | 48.56 | 45.16 | 621 | 1.79 | 0.30 | 34.0 |
| 4/26/2015 10:55:53 | 48.88 | 45.48 | 31 | 1.73 | 0.93 | 1.7 |
| 4/26/2015 10:55:54 | 49.21 | 45.81 | 182 | 1.79 | 1.14 | 10.0 |
| 4/26/2015 10:56:10 | 49.54 | 46.14 | 0 | 1.73 | 1.15 | 0.0 |
| 4/26/2015 10:56:12 | 49.87 | 46.47 | 77 | 1.72 | 1.05 | 4.2 |
| 4/26/2015 10:56:14 | 50.20 | 46.80 | 205 | 1.76 | 1.13 | 11.2 |
| 4/26/2015 10:56:29 | 50.53 | 47.13 | 42 | 1.71 | 1.07 | 2.3 |
| 4/26/2015 10:56:30 | 50.85 | 47.45 | 142 | 1.70 | 1.08 | 7.8 |
| 4/26/2015 10:56:32 | 51.18 | 47.78 | 199 | 1.74 | 1.12 | 10.9 |
| 4/26/2015 10:56:34 | 51.51 | 48.11 | 237 | 1.74 | 1.06 | 13.0 |
| 4/26/2015 10:57:51 | 51.84 | 48.44 | 44 | 1.78 | 1.08 | 2.4 |
| 4/26/2015 10:58:00 | 52.17 | 48.77 | 35 | 1.78 | 1.01 | 1.9 |
| 4/26/2015 10:58:12 | 52.49 | 49.09 | 32 | 1.77 | 1.10 | 1.7 |
| 4/26/2015 10:58:21 | 52.82 | 49.42 | 48 | 1.77 | 1.13 | 2.6 |
| 4/26/2015 10:58:29 | 53.15 | 49.75 | 35 | 1.79 | 1.05 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 10:58:31 | 53.21 | 49.81 | 35 | 1.77 | 1.09 | 1.9 |

## H312 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 10:53:17

**End Date:**
4/26/2015 11:00:59

**Operator Note:**
'3.4 3.7 C Auto Complete'

**Northing:**
365,987.00

**Easting:**
250,321.19

**Tide (feet):**
3.40



## Hole: H313 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:48:37 | 33.14 | 30.14 | 843 | 0.24 | 0.33 | 46.1 |
| 4/26/2015 3:48:38 | 33.46 | 30.46 | 852 | 0.24 | 0.33 | 46.6 |
| 4/26/2015 3:48:38 | 33.79 | 30.79 | 859 | 0.24 | 0.33 | 47.0 |
| 4/26/2015 3:48:39 | 34.12 | 31.12 | 859 | 0.24 | 0.33 | 47.0 |
| 4/26/2015 3:48:39 | 34.45 | 31.45 | 857 | 0.25 | 0.34 | 46.9 |
| 4/26/2015 3:48:39 | 34.78 | 31.78 | 873 | 0.24 | 0.33 | 47.7 |
| 4/26/2015 3:48:40 | 35.11 | 32.11 | 878 | 0.24 | 0.33 | 48.0 |
| 4/26/2015 3:48:40 | 35.43 | 32.43 | 872 | 0.24 | 0.33 | 47.7 |
| 4/26/2015 3:48:41 | 35.76 | 32.76 | 872 | 0.24 | 0.33 | 47.7 |
| 4/26/2015 3:48:41 | 36.09 | 33.09 | 867 | 0.24 | 0.33 | 47.4 |
| 4/26/2015 3:48:41 | 36.42 | 33.42 | 873 | 0.24 | 0.34 | 47.7 |
| 4/26/2015 3:48:42 | 36.75 | 33.75 | 864 | 0.25 | 0.34 | 47.3 |
| 4/26/2015 3:48:42 | 37.07 | 34.07 | 861 | 0.24 | 0.34 | 47.1 |
| 4/26/2015 3:48:43 | 37.40 | 34.40 | 861 | 0.24 | 0.34 | 47.1 |
| 4/26/2015 3:48:43 | 37.73 | 34.73 | 853 | 0.24 | 0.33 | 46.7 |
| 4/26/2015 3:48:43 | 38.06 | 35.06 | 858 | 0.24 | 0.33 | 46.9 |
| 4/26/2015 3:48:44 | 38.39 | 35.39 | 853 | 0.23 | 0.34 | 46.6 |
| 4/26/2015 3:48:44 | 38.71 | 35.71 | 859 | 0.24 | 0.33 | 47.0 |
| 4/26/2015 3:48:45 | 39.04 | 36.04 | 859 | 0.24 | 0.33 | 47.0 |
| 4/26/2015 3:48:45 | 39.37 | 36.37 | 859 | 0.22 | 0.33 | 47.0 |
| 4/26/2015 3:48:45 | 39.70 | 36.70 | 864 | 0.24 | 0.33 | 47.3 |
| 4/26/2015 3:48:46 | 40.03 | 37.03 | 864 | 0.24 | 0.33 | 47.3 |
| 4/26/2015 3:48:46 | 40.35 | 37.35 | 864 | 0.24 | 0.33 | 47.3 |
| 4/26/2015 3:48:46 | 40.68 | 37.68 | 863 | 0.24 | 0.33 | 47.2 |
| 4/26/2015 3:48:47 | 41.01 | 38.01 | 866 | 0.24 | 0.34 | 47.4 |
| 4/26/2015 3:49:37 | 41.34 | 38.34 | 0 | 0.24 | 0.41 | 0.0 |
| 4/26/2015 3:49:37 | 41.67 | 38.67 | 23 | 0.22 | 0.35 | 1.3 |
| 4/26/2015 3:49:38 | 41.99 | 38.99 | 162 | 0.15 | 0.34 | 8.8 |
| 4/26/2015 3:49:38 | 42.32 | 39.32 | 325 | 0.26 | 0.34 | 17.8 |
| 4/26/2015 3:49:39 | 42.65 | 39.65 | 490 | 0.18 | 0.40 | 26.8 |
| 4/26/2015 3:49:53 | 42.98 | 39.98 | 82 | 0.22 | 0.34 | 4.5 |
| 4/26/2015 3:49:53 | 43.31 | 40.31 | 82 | 0.22 | 0.34 | 4.5 |
| 4/26/2015 3:49:53 | 43.64 | 40.64 | 254 | 0.29 | 0.34 | 13.9 |
| 4/26/2015 3:49:54 | 43.96 | 40.96 | 424 | 0.22 | 0.34 | 23.2 |
| 4/26/2015 3:49:54 | 44.29 | 41.29 | 593 | 0.23 | 0.34 | 32.4 |
| 4/26/2015 3:49:55 | 44.62 | 41.62 | 764 | 0.22 | 0.33 | 41.8 |
| 4/26/2015 3:49:55 | 44.95 | 41.95 | 764 | 0.22 | 0.33 | 41.8 |
| 4/26/2015 3:49:55 | 45.28 | 42.28 | 858 | 0.50 | 0.33 | 46.9 |
| 4/26/2015 3:49:56 | 45.60 | 42.60 | 858 | 0.22 | 0.34 | 46.9 |
| 4/26/2015 3:49:56 | 45.93 | 42.93 | 857 | 0.22 | 0.34 | 46.8 |
| 4/26/2015 3:49:57 | 46.26 | 43.26 | 864 | 0.22 | 0.34 | 47.3 |
| 4/26/2015 3:49:57 | 46.59 | 43.59 | 864 | 0.22 | 0.34 | 47.3 |
| 4/26/2015 3:49:57 | 46.92 | 43.92 | 861 | 0.22 | 0.33 | 47.1 |
| 4/26/2015 3:49:58 | 47.24 | 44.24 | 856 | 0.23 | 0.33 | 46.8 |
| 4/26/2015 3:49:58 | 47.57 | 44.57 | 853 | 0.22 | 0.33 | 46.6 |
| 4/26/2015 3:49:59 | 47.90 | 44.90 | 858 | 0.22 | 0.33 | 46.9 |
| 4/26/2015 3:49:59 | 48.23 | 45.23 | 858 | 0.22 | 0.33 | 46.9 |
| 4/26/2015 3:49:59 | 48.56 | 45.56 | 858 | 0.23 | 0.34 | 46.9 |
| 4/26/2015 3:50:00 | 48.88 | 45.88 | 858 | 0.23 | 0.34 | 46.9 |
| 4/26/2015 3:50:01 | 49.21 | 46.21 | 856 | 0.22 | 0.36 | 46.8 |
| 4/26/2015 3:50:02 | 49.54 | 46.54 | 694 | 0.19 | 0.41 | 38.0 |
| 4/26/2015 3:50:09 | 49.87 | 46.87 | 83 | 0.18 | 0.40 | 4.6 |
| 4/26/2015 3:50:39 | 50.20 | 47.20 | 12 | 3.52 | 0.39 | 0.6 |
| 4/26/2015 3:50:42 | 50.53 | 47.53 | 103 | 4.51 | 0.37 | 5.6 |
| 4/26/2015 3:51:11 | 50.85 | 47.85 | 11 | 3.69 | 0.37 | 0.6 |
| 4/26/2015 3:51:12 | 51.18 | 48.18 | 157 | 4.38 | 0.40 | 8.6 |
| 4/26/2015 3:51:15 | 51.51 | 48.51 | 153 | 6.41 | 0.41 | 8.4 |
| 4/26/2015 3:51:18 | 51.84 | 48.84 | 124 | 2.77 | 0.39 | 6.8 |
| 4/26/2015 3:51:28 | 52.17 | 49.17 | 18 | 3.50 | 0.41 | 1.0 |
| 4/26/2015 3:51:35 | 52.49 | 49.49 | 76 | 4.98 | 0.40 | 4.1 |
| 4/26/2015 3:51:36 | 52.82 | 49.82 | 124 | 4.25 | 0.38 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 3:51:37 | 53.15 | 50.15 | 206 | 3.66 | 0.38 | 11.3 |
| 4/26/2015 | 3:51:38 | 53.48 | 50.48 | 306 | 3.28 | 0.37 | 16.7 |
| 4/26/2015 | 3:51:39 | 53.81 | 50.81 | 390 | 4.46 | 0.37 | 21.3 |
| 4/26/2015 | 3:51:40 | 54.13 | 51.13 | 419 | 2.45 | 0.36 | 22.9 |
| 4/26/2015 | 3:51:40 | 54.46 | 51.46 | 463 | 2.71 | 0.37 | 25.3 |
| 4/26/2015 | 3:51:41 | 54.79 | 51.79 | 452 | 2.97 | 0.39 | 24.7 |
| 4/26/2015 | 3:51:43 | 55.12 | 52.12 | 347 | 2.97 | 0.38 | 19.0 |
| 4/26/2015 | 3:51:44 | 55.45 | 52.45 | 309 | 3.03 | 0.38 | 16.9 |
| 4/26/2015 | 3:51:45 | 55.77 | 52.77 | 292 | 2.95 | 0.39 | 16.0 |
| 4/26/2015 | 3:51:46 | 56.10 | 53.10 | 286 | 2.69 | 0.37 | 15.6 |
| 4/26/2015 | 3:51:47 | 56.43 | 53.43 | 353 | 2.77 | 0.37 | 19.3 |
| 4/26/2015 | 3:51:48 | 56.76 | 53.76 | 390 | 2.97 | 0.37 | 21.3 |
| 4/26/2015 | 3:51:49 | 57.09 | 54.09 | 436 | 2.89 | 0.37 | 23.8 |
| 4/26/2015 | 3:51:50 | 57.41 | 54.41 | 413 | 3.14 | 0.38 | 22.6 |
| 4/26/2015 | 3:51:51 | 57.74 | 54.74 | 371 | 2.72 | 0.37 | 20.3 |
| 4/26/2015 | 3:51:52 | 58.07 | 55.07 | 371 | 3.09 | 0.38 | 20.3 |
| 4/26/2015 | 3:51:52 | 58.22 | 55.22 | 371 | 3.09 | 0.38 | 20.3 |

## H313 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:42:43

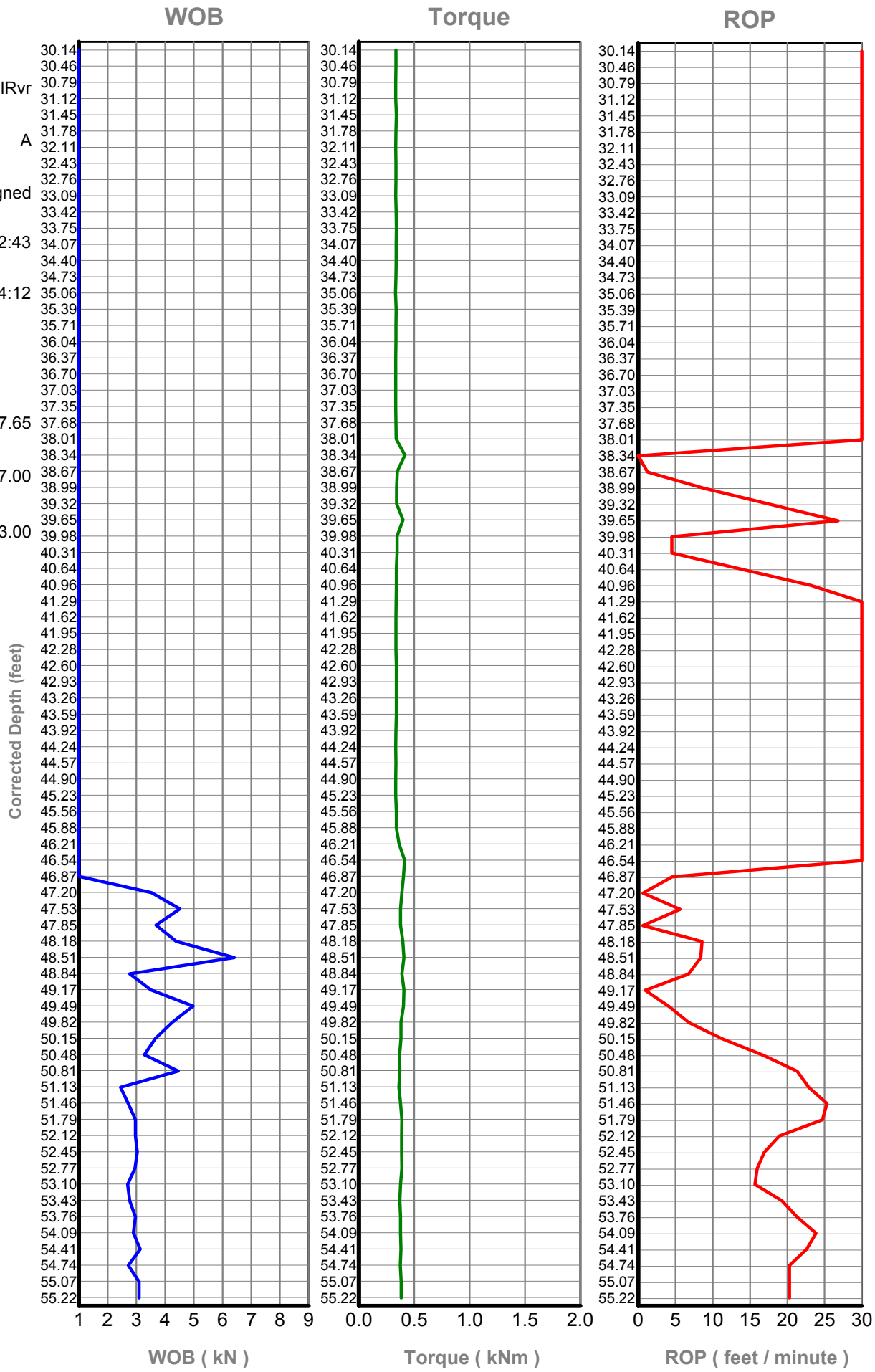
**End Date:**
4/26/2015 3:54:12

**Operator Note:**
'3 3.1 b Auto Complete'

**Northing:**
366,047.65

**Easting:**
250,387.00

**Tide (feet):**
3.00



## Hole: H314 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:58:28 | 33.46 | 30.26 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:28 | 33.79 | 30.59 | 948 | 0.20 | 0.32 | 51.9 |
| 4/26/2015 3:58:29 | 34.12 | 30.92 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:29 | 34.45 | 31.25 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:29 | 34.78 | 31.58 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:30 | 35.11 | 31.91 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:31 | 35.43 | 32.23 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:31 | 35.76 | 32.56 | 948 | 0.20 | 0.32 | 51.8 |
| 4/26/2015 3:58:31 | 36.09 | 32.89 | 946 | 0.20 | 0.32 | 51.7 |
| 4/26/2015 3:58:32 | 36.42 | 33.22 | 945 | 0.20 | 0.32 | 51.7 |
| 4/26/2015 3:58:32 | 36.75 | 33.55 | 945 | 0.20 | 0.32 | 51.7 |
| 4/26/2015 3:58:32 | 37.07 | 33.87 | 939 | 0.20 | 0.32 | 51.4 |
| 4/26/2015 3:58:33 | 37.40 | 34.20 | 926 | 0.20 | 0.32 | 50.6 |
| 4/26/2015 3:58:33 | 37.73 | 34.53 | 940 | 0.20 | 0.32 | 51.4 |
| 4/26/2015 3:58:34 | 38.06 | 34.86 | 940 | 0.20 | 0.32 | 51.4 |
| 4/26/2015 3:58:34 | 38.39 | 35.19 | 943 | 0.20 | 0.32 | 51.6 |
| 4/26/2015 3:58:34 | 38.71 | 35.51 | 946 | 0.20 | 0.33 | 51.7 |
| 4/26/2015 3:58:35 | 39.04 | 35.84 | 946 | 0.20 | 0.33 | 51.7 |
| 4/26/2015 3:58:35 | 39.37 | 36.17 | 949 | 0.20 | 0.32 | 51.9 |
| 4/26/2015 3:58:35 | 39.70 | 36.50 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:36 | 40.03 | 36.83 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:36 | 40.35 | 37.15 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:36 | 40.68 | 37.48 | 954 | 0.25 | 0.32 | 52.2 |
| 4/26/2015 3:58:37 | 41.01 | 37.81 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:37 | 41.34 | 38.14 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:37 | 41.67 | 38.47 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:38 | 41.99 | 38.79 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:38 | 42.32 | 39.12 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:39 | 42.65 | 39.45 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:39 | 42.98 | 39.78 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:39 | 43.31 | 40.11 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:40 | 43.64 | 40.44 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:40 | 43.96 | 40.76 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:40 | 44.29 | 41.09 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:41 | 44.62 | 41.42 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:42 | 44.95 | 41.75 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:42 | 45.28 | 42.08 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:42 | 45.60 | 42.40 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:43 | 45.93 | 42.73 | 960 | 0.20 | 0.32 | 52.5 |
| 4/26/2015 3:58:43 | 46.26 | 43.06 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:43 | 46.59 | 43.39 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:44 | 46.92 | 43.72 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:44 | 47.24 | 44.04 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:44 | 47.57 | 44.37 | 957 | 0.20 | 0.32 | 52.3 |
| 4/26/2015 3:58:45 | 47.90 | 44.70 | 951 | 0.20 | 0.32 | 52.0 |
| 4/26/2015 3:58:45 | 48.23 | 45.03 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:46 | 48.56 | 45.36 | 954 | 0.20 | 0.32 | 52.2 |
| 4/26/2015 3:58:46 | 48.88 | 45.68 | 940 | 0.22 | 0.32 | 51.4 |
| 4/26/2015 3:58:46 | 49.21 | 46.01 | 946 | 0.18 | 0.36 | 51.7 |
| 4/26/2015 3:58:50 | 49.54 | 46.34 | 26 | 0.18 | 0.40 | 1.4 |
| 4/26/2015 3:59:40 | 49.87 | 46.67 | 0 | 3.80 | 0.36 | 0.0 |
| 4/26/2015 3:59:41 | 50.20 | 47.00 | 159 | 3.98 | 0.39 | 8.7 |
| 4/26/2015 3:59:45 | 50.53 | 47.33 | 68 | 4.21 | 0.39 | 3.7 |
| 4/26/2015 3:59:46 | 50.85 | 47.65 | 151 | 5.52 | 0.40 | 8.3 |
| 4/26/2015 3:59:58 | 51.18 | 47.98 | 13 | 7.00 | 0.39 | 0.7 |
| 4/26/2015 3:59:59 | 51.51 | 48.31 | 54 | 4.62 | 0.38 | 3.0 |
| 4/26/2015 4:00:00 | 51.84 | 48.64 | 173 | 3.75 | 0.37 | 9.4 |
| 4/26/2015 4:00:01 | 52.17 | 48.97 | 280 | 5.84 | 0.38 | 15.3 |
| 4/26/2015 4:00:21 | 52.49 | 49.29 | 13 | 4.59 | 0.39 | 0.7 |
| 4/26/2015 4:00:22 | 52.82 | 49.62 | 154 | 3.60 | 0.38 | 8.4 |
| 4/26/2015 4:00:23 | 53.15 | 49.95 | 225 | 2.53 | 0.36 | 12.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:00:24 | 53.48 | 50.28 | 366 | 4.19 | 0.37 | 20.0 |
| 4/26/2015 | 4:00:33 | 53.81 | 50.61 | 0 | 2.01 | 0.34 | 0.0 |
| 4/26/2015 | 4:00:34 | 54.13 | 50.93 | 112 | 2.03 | 0.33 | 6.1 |
| 4/26/2015 | 4:00:34 | 54.46 | 51.26 | 272 | 2.17 | 0.35 | 14.9 |
| 4/26/2015 | 4:00:53 | 54.79 | 51.59 | 0 | 2.06 | 0.34 | 0.0 |
| 4/26/2015 | 4:00:53 | 55.12 | 51.92 | 100 | 3.47 | 0.37 | 5.5 |
| 4/26/2015 | 4:01:03 | 55.45 | 52.25 | 0 | 4.55 | 0.38 | 0.0 |
| 4/26/2015 | 4:01:04 | 55.77 | 52.57 | 63 | 2.82 | 0.39 | 3.5 |
| 4/26/2015 | 4:01:06 | 56.10 | 52.90 | 133 | 2.73 | 0.38 | 7.3 |
| 4/26/2015 | 4:01:07 | 56.43 | 53.23 | 305 | 2.30 | 0.37 | 16.7 |
| 4/26/2015 | 4:01:07 | 56.76 | 53.56 | 411 | 2.59 | 0.37 | 22.5 |
| 4/26/2015 | 4:01:08 | 57.09 | 53.89 | 443 | 3.45 | 0.39 | 24.2 |
| 4/26/2015 | 4:01:10 | 57.41 | 54.21 | 365 | 4.26 | 0.39 | 20.0 |
| 4/26/2015 | 4:01:11 | 57.74 | 54.54 | 273 | 3.44 | 0.39 | 14.9 |
| 4/26/2015 | 4:01:13 | 58.07 | 54.87 | 234 | 4.05 | 0.42 | 12.8 |
| 4/26/2015 | 4:01:14 | 58.24 | 55.04 | 181 | 4.00 | 0.39 | 9.9 |

## H314 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:56:04

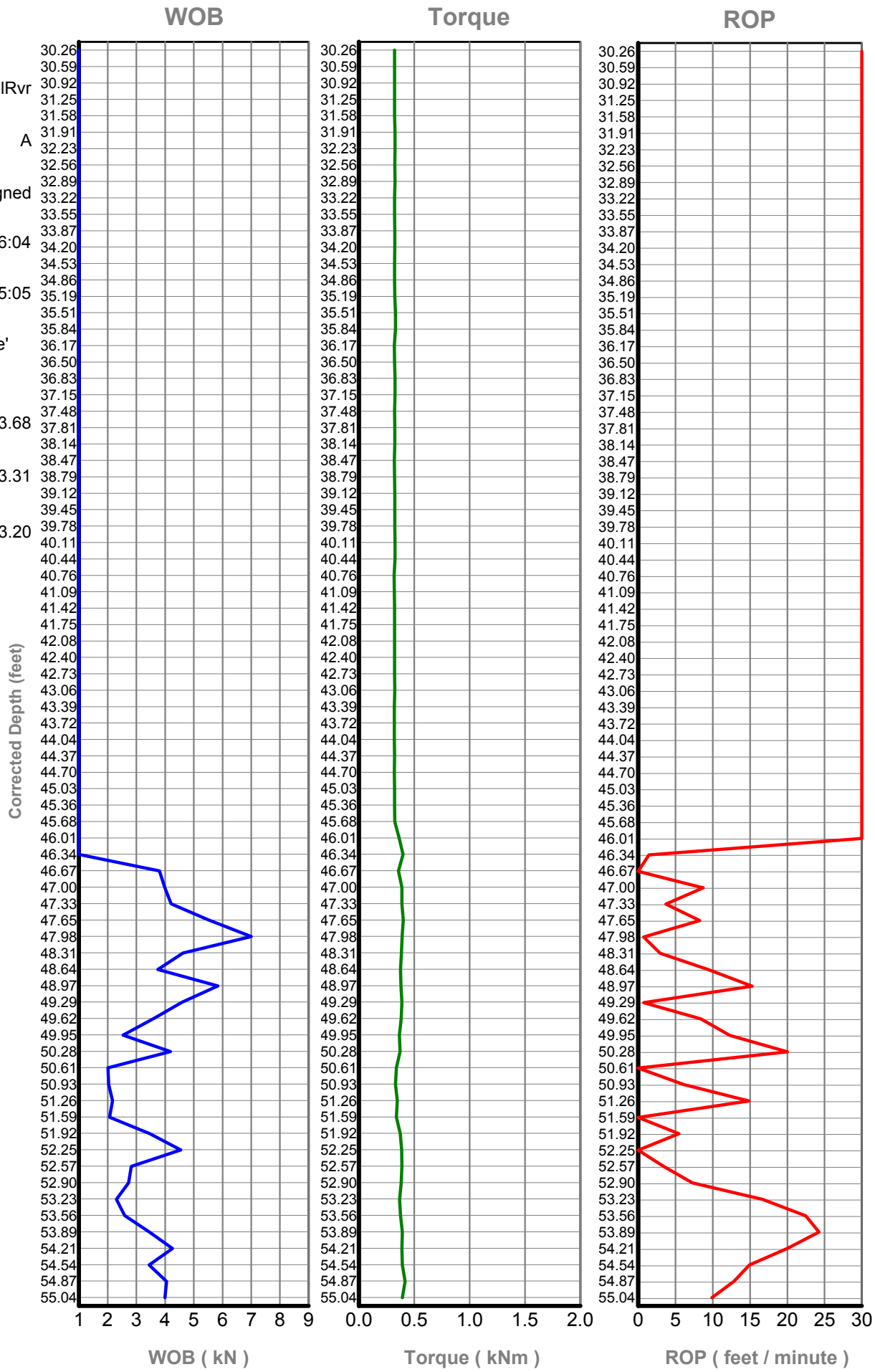
**End Date:**
4/26/2015 4:15:05

**Operator Note:**
'3.2 3.2 b Auto Complete'

**Northing:**
366,083.68

**Easting:**
250,433.31

**Tide (feet):**
3.20



## Hole: H315 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 3:48:54 | 33.14 | 30.14 | 546 | 1.82 | 0.15 | 29.8 |
| 4/26/2015 3:48:55 | 33.46 | 30.46 | 544 | 1.78 | 0.16 | 29.8 |
| 4/26/2015 3:48:56 | 33.79 | 30.79 | 538 | 1.79 | 0.16 | 29.4 |
| 4/26/2015 3:48:56 | 34.12 | 31.12 | 544 | 1.79 | 0.16 | 29.8 |
| 4/26/2015 3:48:57 | 34.45 | 31.45 | 549 | 1.79 | 0.14 | 30.0 |
| 4/26/2015 3:48:58 | 34.78 | 31.78 | 549 | 1.80 | 0.16 | 30.0 |
| 4/26/2015 3:48:58 | 35.11 | 32.11 | 546 | 1.80 | 0.16 | 29.9 |
| 4/26/2015 3:48:59 | 35.43 | 32.43 | 546 | 1.81 | 0.16 | 29.9 |
| 4/26/2015 3:49:00 | 35.76 | 32.76 | 561 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 3:49:00 | 36.09 | 33.09 | 552 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 3:49:01 | 36.42 | 33.42 | 552 | 1.77 | 0.16 | 30.2 |
| 4/26/2015 3:49:01 | 36.75 | 33.75 | 554 | 1.79 | 0.16 | 30.3 |
| 4/26/2015 3:49:02 | 37.07 | 34.07 | 550 | 1.77 | 0.16 | 30.1 |
| 4/26/2015 3:49:03 | 37.40 | 34.40 | 551 | 1.79 | 0.16 | 30.1 |
| 4/26/2015 3:49:03 | 37.73 | 34.73 | 556 | 1.78 | 0.16 | 30.4 |
| 4/26/2015 3:49:04 | 38.06 | 35.06 | 556 | 1.78 | 0.16 | 30.4 |
| 4/26/2015 3:49:05 | 38.39 | 35.39 | 556 | 1.80 | 0.16 | 30.4 |
| 4/26/2015 3:49:05 | 38.71 | 35.71 | 549 | 1.77 | 0.16 | 30.0 |
| 4/26/2015 3:49:06 | 39.04 | 36.04 | 559 | 1.82 | 0.16 | 30.6 |
| 4/26/2015 3:49:07 | 39.37 | 36.37 | 553 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 3:49:08 | 39.70 | 36.70 | 549 | 1.79 | 0.16 | 30.0 |
| 4/26/2015 3:49:08 | 40.03 | 37.03 | 543 | 1.76 | 0.16 | 29.7 |
| 4/26/2015 3:49:09 | 40.35 | 37.35 | 540 | 1.79 | 0.16 | 29.5 |
| 4/26/2015 3:49:09 | 40.68 | 37.68 | 540 | 1.81 | 0.16 | 29.5 |
| 4/26/2015 3:49:10 | 41.01 | 38.01 | 547 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 3:49:11 | 41.34 | 38.34 | 550 | 1.77 | 0.16 | 30.1 |
| 4/26/2015 3:49:11 | 41.67 | 38.67 | 559 | 1.77 | 0.16 | 30.6 |
| 4/26/2015 3:49:12 | 41.99 | 38.99 | 553 | 1.80 | 0.16 | 30.2 |
| 4/26/2015 3:49:13 | 42.32 | 39.32 | 549 | 1.79 | 0.16 | 30.0 |
| 4/26/2015 3:49:13 | 42.65 | 39.65 | 546 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 3:49:14 | 42.98 | 39.98 | 543 | 1.79 | 0.16 | 29.7 |
| 4/26/2015 3:49:14 | 43.31 | 40.31 | 549 | 1.81 | 0.16 | 30.0 |
| 4/26/2015 3:49:15 | 43.64 | 40.64 | 546 | 1.77 | 0.16 | 29.9 |
| 4/26/2015 3:49:16 | 43.96 | 40.96 | 546 | 1.77 | 0.16 | 29.9 |
| 4/26/2015 3:49:17 | 44.29 | 41.29 | 549 | 1.76 | 0.16 | 30.0 |
| 4/26/2015 3:49:17 | 44.62 | 41.62 | 549 | 1.81 | 0.16 | 30.0 |
| 4/26/2015 3:49:18 | 44.95 | 41.95 | 537 | 1.78 | 0.16 | 29.4 |
| 4/26/2015 3:49:19 | 45.28 | 42.28 | 537 | 1.81 | 0.16 | 29.4 |
| 4/26/2015 3:49:19 | 45.60 | 42.60 | 542 | 1.79 | 0.16 | 29.6 |
| 4/26/2015 3:49:20 | 45.93 | 42.93 | 542 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 3:49:21 | 46.26 | 43.26 | 542 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 3:49:21 | 46.59 | 43.59 | 545 | 1.77 | 0.16 | 29.8 |
| 4/26/2015 3:49:22 | 46.92 | 43.92 | 551 | 1.78 | 0.16 | 30.1 |
| 4/26/2015 3:49:22 | 47.24 | 44.24 | 549 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 3:49:23 | 47.57 | 44.57 | 546 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 3:49:24 | 47.90 | 44.90 | 549 | 1.79 | 0.16 | 30.0 |
| 4/26/2015 3:49:24 | 48.23 | 45.23 | 546 | 1.87 | 0.16 | 29.9 |
| 4/26/2015 3:49:59 | 48.56 | 45.56 | 0 | 1.76 | 1.04 | 0.0 |
| 4/26/2015 3:50:00 | 48.88 | 45.88 | 186 | 1.76 | 1.43 | 10.2 |
| 4/26/2015 3:50:03 | 49.21 | 46.21 | 77 | 1.74 | 1.24 | 4.2 |
| 4/26/2015 3:50:04 | 49.54 | 46.54 | 194 | 1.76 | 1.48 | 10.6 |
| 4/26/2015 3:50:12 | 49.87 | 46.87 | 90 | 1.73 | 1.11 | 4.9 |
| 4/26/2015 3:50:14 | 50.20 | 47.20 | 231 | 1.76 | 1.14 | 12.6 |
| 4/26/2015 3:50:30 | 50.53 | 47.53 | 78 | 1.74 | 1.09 | 4.3 |
| 4/26/2015 3:50:32 | 50.85 | 47.85 | 234 | 1.70 | 1.23 | 12.8 |
| 4/26/2015 3:50:46 | 51.18 | 48.18 | 0 | 1.76 | 1.09 | 0.0 |
| 4/26/2015 3:50:48 | 51.51 | 48.51 | 131 | 1.76 | 1.28 | 7.2 |
| 4/26/2015 3:50:49 | 51.84 | 48.84 | 253 | 1.76 | 1.12 | 13.8 |
| 4/26/2015 3:50:51 | 52.17 | 49.17 | 302 | 1.74 | 1.02 | 16.5 |
| 4/26/2015 3:51:15 | 52.49 | 49.49 | 24 | 1.72 | 1.10 | 1.3 |
| 4/26/2015 3:51:27 | 52.82 | 49.82 | 0 | 1.85 | 1.02 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 3:51:28 | 53.15 | 50.15 | 76 | 1.74 | 1.05 | 4.2 |
| 4/26/2015 | 3:51:29 | 53.48 | 50.48 | 160 | 1.77 | 1.13 | 8.7 |
| 4/26/2015 | 3:51:35 | 53.81 | 50.81 | 45 | 1.73 | 1.08 | 2.4 |
| 4/26/2015 | 3:51:37 | 54.13 | 51.13 | 131 | 1.74 | 1.19 | 7.2 |
| 4/26/2015 | 3:51:38 | 54.46 | 51.46 | 178 | 1.74 | 1.05 | 9.7 |
| 4/26/2015 | 3:51:45 | 54.79 | 51.79 | 0 | 1.74 | 1.25 | 0.0 |
| 4/26/2015 | 3:51:47 | 55.12 | 52.12 | 133 | 1.75 | 1.03 | 7.3 |
| 4/26/2015 | 3:51:54 | 55.45 | 52.45 | 21 | 1.74 | 1.11 | 1.1 |
| 4/26/2015 | 3:51:55 | 55.77 | 52.77 | 148 | 1.74 | 1.09 | 8.1 |
| 4/26/2015 | 3:51:57 | 56.10 | 53.10 | 286 | 1.74 | 1.15 | 15.6 |
| 4/26/2015 | 3:51:58 | 56.43 | 53.43 | 265 | 1.74 | 1.08 | 14.5 |
| 4/26/2015 | 3:52:02 | 56.76 | 53.76 | 3 | 1.76 | 1.29 | 0.2 |
| 4/26/2015 | 3:52:04 | 57.09 | 54.09 | 92 | 1.75 | 1.02 | 5.1 |
| 4/26/2015 | 3:52:06 | 57.41 | 54.41 | 234 | 1.76 | 1.16 | 12.8 |
| 4/26/2015 | 3:52:08 | 57.74 | 54.74 | 121 | 1.75 | 1.15 | 6.6 |
| 4/26/2015 | 3:52:10 | 58.06 | 55.06 | 174 | 1.65 | 1.12 | 9.5 |

## H315 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 3:42:35

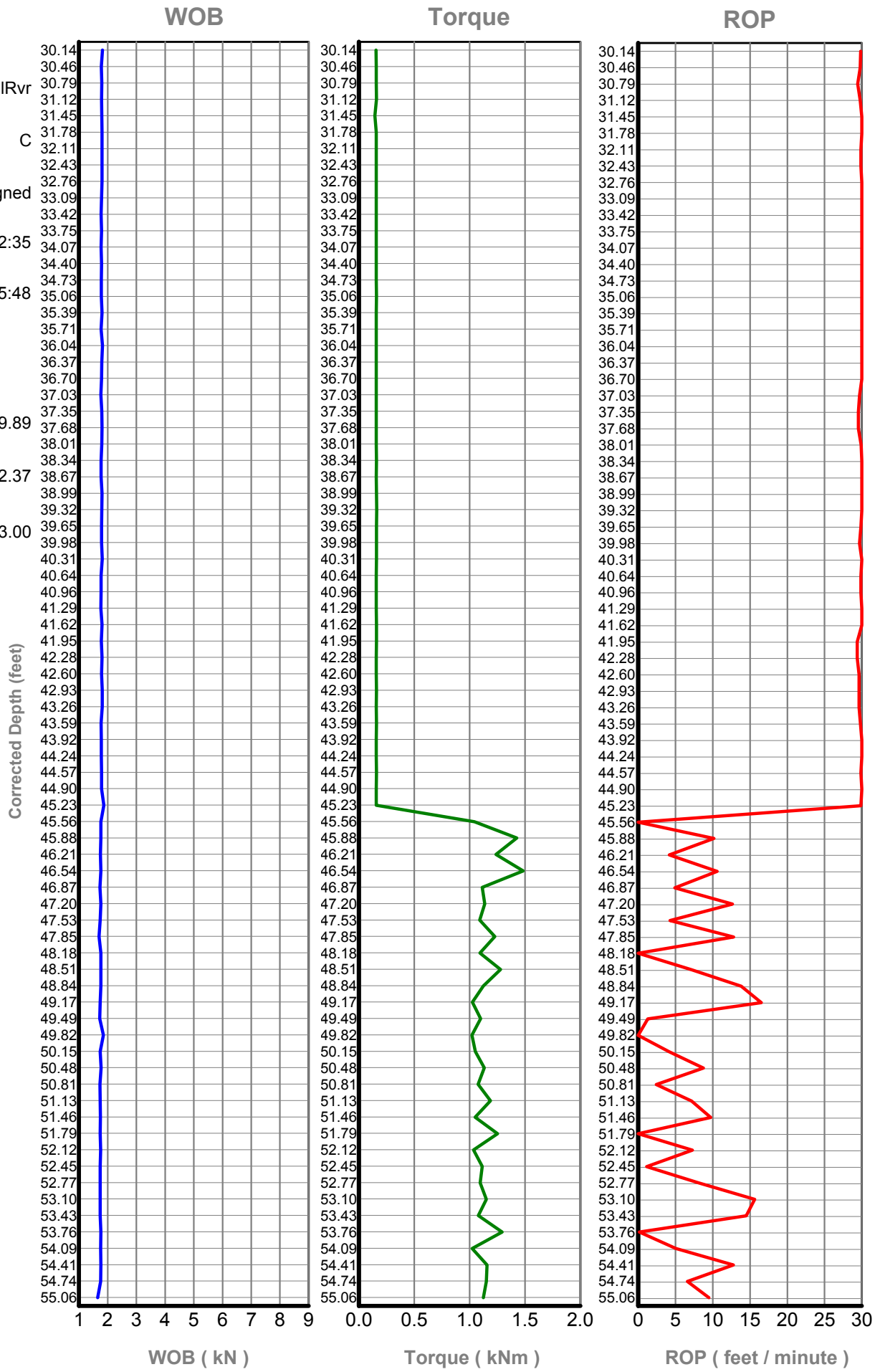
**End Date:**
4/26/2015 3:55:48

**Operator Note:**
'3 3.1 c Auto Complete'

**Northing:**
366,129.89

**Easting:**
250,492.37

**Tide (feet):**
3.00



## Hole: H316 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:22:18 | 35.76 | 30.16 | 1,082 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 18:22:18 | 36.09 | 30.49 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/25/2015 18:22:19 | 36.42 | 30.82 | 1,052 | 0.31 | 0.31 | 57.5 |
| 4/25/2015 18:22:19 | 36.75 | 31.15 | 1,049 | 0.31 | 0.30 | 57.4 |
| 4/25/2015 18:22:19 | 37.07 | 31.47 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/25/2015 18:22:20 | 37.40 | 31.80 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/25/2015 18:22:20 | 37.73 | 32.13 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 18:22:20 | 38.06 | 32.46 | 1,059 | 0.24 | 0.31 | 57.9 |
| 4/25/2015 18:22:21 | 38.39 | 32.79 | 1,059 | 0.24 | 0.31 | 57.9 |
| 4/25/2015 18:22:21 | 38.71 | 33.11 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/25/2015 18:22:21 | 39.04 | 33.44 | 1,077 | 0.31 | 0.31 | 58.9 |
| 4/25/2015 18:22:22 | 39.37 | 33.77 | 1,077 | 0.31 | 0.31 | 58.9 |
| 4/25/2015 18:22:22 | 39.70 | 34.10 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/25/2015 18:22:23 | 40.03 | 34.43 | 1,074 | 0.31 | 0.32 | 58.7 |
| 4/25/2015 18:22:23 | 40.35 | 34.75 | 1,074 | 0.31 | 0.32 | 58.7 |
| 4/25/2015 18:22:23 | 40.68 | 35.08 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/25/2015 18:22:24 | 41.01 | 35.41 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/25/2015 18:22:24 | 41.34 | 35.74 | 1,089 | 0.03 | 0.31 | 59.6 |
| 4/25/2015 18:22:24 | 41.67 | 36.07 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 18:22:25 | 41.99 | 36.39 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 18:22:25 | 42.32 | 36.72 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/25/2015 18:22:25 | 42.65 | 37.05 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 18:22:26 | 42.98 | 37.38 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 18:22:26 | 43.31 | 37.71 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/25/2015 18:22:26 | 43.64 | 38.04 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 18:22:27 | 43.96 | 38.36 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 18:22:27 | 44.29 | 38.69 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 18:22:27 | 44.62 | 39.02 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:22:28 | 44.95 | 39.35 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:22:28 | 45.28 | 39.68 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:22:28 | 45.60 | 40.00 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:22:28 | 45.93 | 40.33 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 18:22:29 | 46.26 | 40.66 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 18:22:29 | 46.59 | 40.99 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 18:22:29 | 46.92 | 41.32 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 18:22:30 | 47.24 | 41.64 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/25/2015 18:22:30 | 47.57 | 41.97 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/25/2015 18:22:30 | 47.90 | 42.30 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 18:22:31 | 48.23 | 42.63 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 18:22:31 | 48.56 | 42.96 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 18:22:31 | 48.88 | 43.28 | 1,033 | 0.29 | 0.32 | 56.5 |
| 4/25/2015 18:22:32 | 49.21 | 43.61 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 18:22:32 | 49.54 | 43.94 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 18:22:32 | 49.87 | 44.27 | 1,045 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 18:22:33 | 50.20 | 44.60 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 18:22:34 | 50.53 | 44.93 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 18:22:34 | 50.85 | 45.25 | 1,051 | 0.29 | 0.35 | 57.5 |
| 4/25/2015 18:22:41 | 51.18 | 45.58 | 0 | 3.63 | 0.34 | 0.0 |
| 4/25/2015 18:22:42 | 51.51 | 45.91 | 214 | 2.99 | 0.39 | 11.7 |
| 4/25/2015 18:22:45 | 51.84 | 46.24 | 213 | 3.60 | 0.37 | 11.6 |
| 4/25/2015 18:22:46 | 52.17 | 46.57 | 206 | 5.27 | 0.37 | 11.3 |
| 4/25/2015 18:22:51 | 52.49 | 46.89 | 40 | 6.69 | 0.38 | 2.2 |
| 4/25/2015 18:22:55 | 52.82 | 47.22 | 41 | 5.68 | 0.39 | 2.2 |
| 4/25/2015 18:22:57 | 53.15 | 47.55 | 145 | 3.26 | 0.37 | 7.9 |
| 4/25/2015 18:22:57 | 53.48 | 47.88 | 248 | 3.94 | 0.37 | 13.6 |
| 4/25/2015 18:23:09 | 53.81 | 48.21 | 46 | 4.15 | 0.37 | 2.5 |
| 4/25/2015 18:23:10 | 54.13 | 48.53 | 141 | 3.09 | 0.39 | 7.7 |
| 4/25/2015 18:23:23 | 54.46 | 48.86 | 15 | 5.32 | 0.38 | 0.8 |
| 4/25/2015 18:23:24 | 54.79 | 49.19 | 158 | 2.31 | 0.35 | 8.6 |
| 4/25/2015 18:23:32 | 55.12 | 49.52 | 0 | 3.63 | 0.37 | 0.0 |
| 4/25/2015 18:23:33 | 55.45 | 49.85 | 44 | 2.54 | 0.35 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 18:23:45 | 55.77 | 50.17 | 71 | 3.58 | 0.37 | 3.9 |
| 4/25/2015 | 18:23:49 | 56.10 | 50.50 | 0 | 4.95 | 0.36 | 0.0 |
| 4/25/2015 | 18:23:50 | 56.43 | 50.83 | 94 | 2.14 | 0.35 | 5.2 |
| 4/25/2015 | 18:23:50 | 56.76 | 51.16 | 94 | 2.08 | 0.34 | 5.2 |
| 4/25/2015 | 18:23:51 | 57.09 | 51.49 | 229 | 2.14 | 0.35 | 12.5 |
| 4/25/2015 | 18:23:51 | 57.41 | 51.81 | 377 | 2.04 | 0.35 | 20.6 |
| 4/25/2015 | 18:23:52 | 57.74 | 52.14 | 527 | 1.95 | 0.34 | 28.8 |
| 4/25/2015 | 18:23:52 | 58.07 | 52.47 | 624 | 1.87 | 0.34 | 34.1 |
| 4/25/2015 | 18:23:53 | 58.40 | 52.80 | 732 | 1.92 | 0.35 | 40.0 |
| 4/25/2015 | 18:23:53 | 58.73 | 53.13 | 731 | 2.09 | 0.35 | 40.0 |
| 4/25/2015 | 18:23:54 | 59.06 | 53.46 | 709 | 1.95 | 0.35 | 38.8 |
| 4/25/2015 | 18:23:54 | 59.38 | 53.78 | 697 | 3.03 | 0.35 | 38.1 |
| 4/25/2015 | 18:23:55 | 59.71 | 54.11 | 671 | 2.95 | 0.37 | 36.7 |
| 4/25/2015 | 18:23:56 | 60.04 | 54.44 | 505 | 2.44 | 0.36 | 27.6 |
| 4/25/2015 | 18:23:57 | 60.37 | 54.77 | 433 | 6.84 | 0.38 | 23.7 |
| 4/25/2015 | 18:23:58 | 60.57 | 54.97 | 325 | 4.17 | 0.39 | 17.8 |

## H316 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 18:20:29

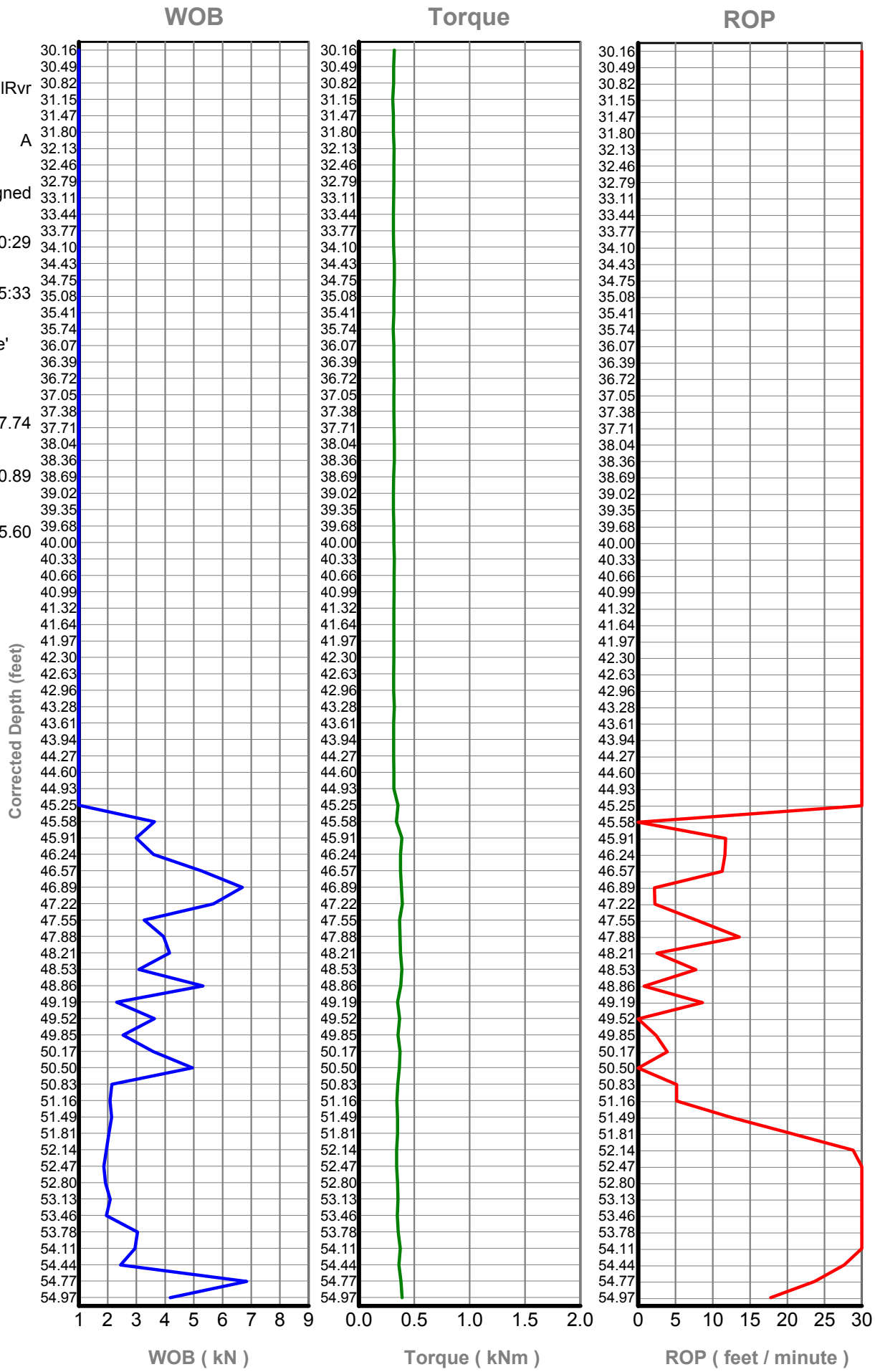
**End Date:**
4/25/2015 18:25:33

**Operator Note:**
'5.6 5.6 b Auto Complete'

**Northing:**
366,187.74

**Easting:**
250,570.89

**Tide (feet):**
5.60



## Hole: H317 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:16:13 | 35.76 | 30.16 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 18:16:13 | 36.09 | 30.49 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 18:16:13 | 36.42 | 30.82 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 18:16:14 | 36.75 | 31.15 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/25/2015 18:16:14 | 37.07 | 31.47 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/25/2015 18:16:14 | 37.40 | 31.80 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/25/2015 18:16:15 | 37.73 | 32.13 | 1,036 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 18:16:15 | 38.06 | 32.46 | 1,036 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 18:16:15 | 38.39 | 32.79 | 1,033 | 0.31 | 0.32 | 56.5 |
| 4/25/2015 18:16:16 | 38.71 | 33.11 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/25/2015 18:16:16 | 39.04 | 33.44 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/25/2015 18:16:16 | 39.37 | 33.77 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 18:16:17 | 39.70 | 34.10 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 18:16:17 | 40.03 | 34.43 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 18:16:17 | 40.35 | 34.75 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/25/2015 18:16:18 | 40.68 | 35.08 | 1,056 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 18:16:19 | 41.01 | 35.41 | 1,056 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 18:16:19 | 41.34 | 35.74 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 18:16:19 | 41.67 | 36.07 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 18:16:20 | 41.99 | 36.39 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 18:16:20 | 42.32 | 36.72 | 1,037 | 0.32 | 0.31 | 56.7 |
| 4/25/2015 18:16:20 | 42.65 | 37.05 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 18:16:21 | 42.98 | 37.38 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 18:16:21 | 43.31 | 37.71 | 1,034 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 18:16:21 | 43.64 | 38.04 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 18:16:22 | 43.96 | 38.36 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 18:16:22 | 44.29 | 38.69 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/25/2015 18:16:22 | 44.62 | 39.02 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/25/2015 18:16:23 | 44.95 | 39.35 | 1,044 | 0.31 | 0.31 | 57.1 |
| 4/25/2015 18:16:23 | 45.28 | 39.68 | 1,038 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 18:16:23 | 45.60 | 40.00 | 1,032 | 0.25 | 0.32 | 56.4 |
| 4/25/2015 18:16:24 | 45.93 | 40.33 | 1,032 | 0.25 | 0.32 | 56.4 |
| 4/25/2015 18:16:24 | 46.26 | 40.66 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/25/2015 18:16:24 | 46.59 | 40.99 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 18:16:25 | 46.92 | 41.32 | 1,027 | 0.31 | 0.31 | 56.2 |
| 4/25/2015 18:16:25 | 47.24 | 41.64 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/25/2015 18:16:25 | 47.57 | 41.97 | 1,022 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 18:16:26 | 47.90 | 42.30 | 1,022 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 18:16:26 | 48.23 | 42.63 | 1,022 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 18:16:26 | 48.56 | 42.96 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/25/2015 18:16:27 | 48.88 | 43.28 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/25/2015 18:16:27 | 49.21 | 43.61 | 1,011 | 0.31 | 0.31 | 55.3 |
| 4/25/2015 18:16:27 | 49.54 | 43.94 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 18:16:28 | 49.87 | 44.27 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 18:16:28 | 50.20 | 44.60 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/25/2015 18:16:29 | 50.53 | 44.93 | 1,007 | 0.30 | 0.32 | 55.1 |
| 4/25/2015 18:16:29 | 50.85 | 45.25 | 1,007 | 0.30 | 0.32 | 55.1 |
| 4/25/2015 18:16:42 | 51.18 | 45.58 | 38 | 4.00 | 0.40 | 2.1 |
| 4/25/2015 18:16:43 | 51.51 | 45.91 | 153 | 3.25 | 0.36 | 8.3 |
| 4/25/2015 18:16:43 | 51.84 | 46.24 | 253 | 3.86 | 0.36 | 13.8 |
| 4/25/2015 18:16:57 | 52.17 | 46.57 | 39 | 3.24 | 0.37 | 2.1 |
| 4/25/2015 18:17:04 | 52.49 | 46.89 | 0 | 2.76 | 0.37 | 0.0 |
| 4/25/2015 18:17:04 | 52.82 | 47.22 | 85 | 2.89 | 0.37 | 4.7 |
| 4/25/2015 18:17:05 | 53.15 | 47.55 | 250 | 5.43 | 0.38 | 13.7 |
| 4/25/2015 18:17:06 | 53.48 | 47.88 | 382 | 3.50 | 0.37 | 20.9 |
| 4/25/2015 18:17:20 | 53.81 | 48.21 | 97 | 3.34 | 0.37 | 5.3 |
| 4/25/2015 18:17:21 | 54.13 | 48.53 | 194 | 2.74 | 0.36 | 10.6 |
| 4/25/2015 18:17:26 | 54.46 | 48.86 | 53 | 4.09 | 0.37 | 2.9 |
| 4/25/2015 18:17:27 | 54.79 | 49.19 | 216 | 2.19 | 0.35 | 11.8 |
| 4/25/2015 18:17:28 | 55.12 | 49.52 | 339 | 1.85 | 0.32 | 18.6 |
| 4/25/2015 18:17:37 | 55.45 | 49.85 | 73 | 3.55 | 0.37 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 18:17:38 | 55.77 | 50.17 | 132 | 2.99 | 0.36 | 7.2 |
| 4/25/2015 | 18:17:39 | 56.10 | 50.50 | 281 | 2.19 | 0.35 | 15.4 |
| 4/25/2015 | 18:17:39 | 56.43 | 50.83 | 368 | 2.08 | 0.34 | 20.1 |
| 4/25/2015 | 18:17:40 | 56.76 | 51.16 | 468 | 2.36 | 0.35 | 25.6 |
| 4/25/2015 | 18:17:40 | 57.09 | 51.49 | 468 | 2.36 | 0.36 | 25.6 |
| 4/25/2015 | 18:17:41 | 57.41 | 51.81 | 568 | 2.38 | 0.37 | 31.1 |
| 4/25/2015 | 18:17:42 | 57.74 | 52.14 | 571 | 2.02 | 0.35 | 31.2 |
| 4/25/2015 | 18:17:43 | 58.07 | 52.47 | 598 | 2.21 | 0.36 | 32.7 |
| 4/25/2015 | 18:17:43 | 58.40 | 52.80 | 577 | 2.51 | 0.37 | 31.6 |
| 4/25/2015 | 18:17:44 | 58.73 | 53.13 | 511 | 2.94 | 0.36 | 27.9 |
| 4/25/2015 | 18:17:45 | 59.06 | 53.46 | 507 | 3.19 | 0.35 | 27.7 |
| 4/25/2015 | 18:17:45 | 59.38 | 53.78 | 505 | 3.36 | 0.36 | 27.6 |
| 4/25/2015 | 18:17:46 | 59.71 | 54.11 | 493 | 3.78 | 0.36 | 27.0 |
| 4/25/2015 | 18:17:47 | 60.04 | 54.44 | 531 | 3.26 | 0.37 | 29.1 |
| 4/25/2015 | 18:17:48 | 60.37 | 54.77 | 474 | 3.66 | 0.38 | 25.9 |
| 4/25/2015 | 18:17:50 | 60.70 | 55.10 | 228 | 3.56 | 0.39 | 12.5 |

## H317 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 18:14:00

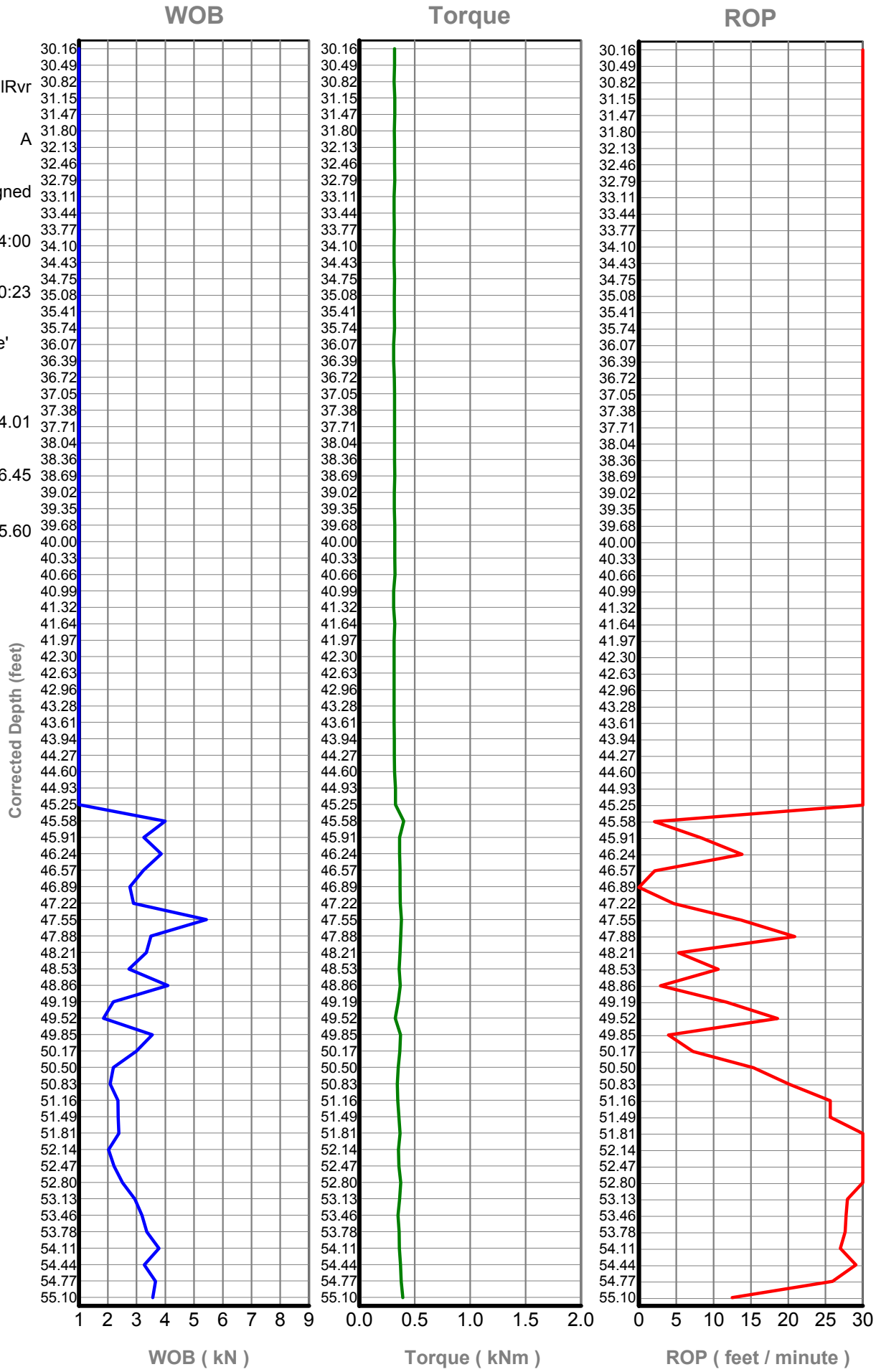
**End Date:**
4/25/2015 18:20:23

**Operator Note:**
'5.6 5.6 b Auto Complete'

**Northing:**
366,224.01

**Easting:**
250,616.45

**Tide (feet):**
5.60



## Hole: H318 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:17:39 | 35.76 | 30.16 | 593 | 1.79 | 0.29 | 32.4 |
| 4/25/2015 18:17:40 | 36.09 | 30.49 | 587 | 1.76 | 0.29 | 32.1 |
| 4/25/2015 18:17:41 | 36.42 | 30.82 | 586 | 1.78 | 0.29 | 32.0 |
| 4/25/2015 18:17:41 | 36.75 | 31.15 | 589 | 1.80 | 0.29 | 32.2 |
| 4/25/2015 18:17:42 | 37.07 | 31.47 | 590 | 1.79 | 0.29 | 32.3 |
| 4/25/2015 18:17:42 | 37.40 | 31.80 | 590 | 1.78 | 0.29 | 32.3 |
| 4/25/2015 18:17:43 | 37.73 | 32.13 | 590 | 1.79 | 0.29 | 32.3 |
| 4/25/2015 18:17:43 | 38.06 | 32.46 | 593 | 1.76 | 0.29 | 32.4 |
| 4/25/2015 18:17:44 | 38.39 | 32.79 | 587 | 1.79 | 0.29 | 32.1 |
| 4/25/2015 18:17:45 | 38.71 | 33.11 | 583 | 1.78 | 0.29 | 31.9 |
| 4/25/2015 18:17:46 | 39.04 | 33.44 | 590 | 1.79 | 0.29 | 32.2 |
| 4/25/2015 18:17:46 | 39.37 | 33.77 | 578 | 1.78 | 0.29 | 31.6 |
| 4/25/2015 18:17:47 | 39.70 | 34.10 | 578 | 1.81 | 0.29 | 31.6 |
| 4/25/2015 18:17:47 | 40.03 | 34.43 | 583 | 1.78 | 0.29 | 31.9 |
| 4/25/2015 18:17:48 | 40.35 | 34.75 | 589 | 1.79 | 0.29 | 32.2 |
| 4/25/2015 18:17:49 | 40.68 | 35.08 | 580 | 1.71 | 0.29 | 31.7 |
| 4/25/2015 18:17:49 | 41.01 | 35.41 | 593 | 1.80 | 0.29 | 32.4 |
| 4/25/2015 18:17:50 | 41.34 | 35.74 | 587 | 1.80 | 0.29 | 32.1 |
| 4/25/2015 18:17:50 | 41.67 | 36.07 | 583 | 1.80 | 0.30 | 31.9 |
| 4/25/2015 18:17:51 | 41.99 | 36.39 | 584 | 1.77 | 0.29 | 31.9 |
| 4/25/2015 18:17:52 | 42.32 | 36.72 | 587 | 1.79 | 0.29 | 32.1 |
| 4/25/2015 18:17:52 | 42.65 | 37.05 | 584 | 1.80 | 0.29 | 31.9 |
| 4/25/2015 18:17:53 | 42.98 | 37.38 | 585 | 1.80 | 0.29 | 32.0 |
| 4/25/2015 18:17:53 | 43.31 | 37.71 | 584 | 1.79 | 0.29 | 31.9 |
| 4/25/2015 18:17:54 | 43.64 | 38.04 | 580 | 1.79 | 0.29 | 31.7 |
| 4/25/2015 18:17:55 | 43.96 | 38.36 | 579 | 1.77 | 0.28 | 31.7 |
| 4/25/2015 18:17:56 | 44.29 | 38.69 | 579 | 1.79 | 0.29 | 31.7 |
| 4/25/2015 18:17:56 | 44.62 | 39.02 | 582 | 1.79 | 0.29 | 31.8 |
| 4/25/2015 18:17:57 | 44.95 | 39.35 | 579 | 1.80 | 0.29 | 31.7 |
| 4/25/2015 18:17:57 | 45.28 | 39.68 | 580 | 1.80 | 0.29 | 31.7 |
| 4/25/2015 18:17:58 | 45.60 | 40.00 | 585 | 1.78 | 0.29 | 32.0 |
| 4/25/2015 18:17:59 | 45.93 | 40.33 | 585 | 1.79 | 0.29 | 32.0 |
| 4/25/2015 18:17:59 | 46.26 | 40.66 | 585 | 1.79 | 0.29 | 32.0 |
| 4/25/2015 18:18:00 | 46.59 | 40.99 | 588 | 1.80 | 0.29 | 32.1 |
| 4/25/2015 18:18:00 | 46.92 | 41.32 | 581 | 1.77 | 0.29 | 31.7 |
| 4/25/2015 18:18:01 | 47.24 | 41.64 | 584 | 1.78 | 0.29 | 31.9 |
| 4/25/2015 18:18:01 | 47.57 | 41.97 | 584 | 1.79 | 0.29 | 31.9 |
| 4/25/2015 18:18:02 | 47.90 | 42.30 | 584 | 1.76 | 0.29 | 31.9 |
| 4/25/2015 18:18:03 | 48.23 | 42.63 | 585 | 1.79 | 0.29 | 32.0 |
| 4/25/2015 18:18:03 | 48.56 | 42.96 | 581 | 1.79 | 0.30 | 31.8 |
| 4/25/2015 18:18:04 | 48.88 | 43.28 | 575 | 1.78 | 0.29 | 31.4 |
| 4/25/2015 18:18:04 | 49.21 | 43.61 | 584 | 1.79 | 0.29 | 32.0 |
| 4/25/2015 18:18:06 | 49.54 | 43.94 | 566 | 1.78 | 0.29 | 31.0 |
| 4/25/2015 18:18:29 | 49.87 | 44.27 | 63 | 1.81 | 1.09 | 3.4 |
| 4/25/2015 18:18:40 | 50.20 | 44.60 | 80 | 1.74 | 1.21 | 4.4 |
| 4/25/2015 18:18:42 | 50.53 | 44.93 | 225 | 1.71 | 1.13 | 12.3 |
| 4/25/2015 18:18:43 | 50.85 | 45.25 | 237 | 1.72 | 1.20 | 13.0 |
| 4/25/2015 18:18:45 | 51.18 | 45.58 | 239 | 1.76 | 1.17 | 13.0 |
| 4/25/2015 18:19:03 | 51.51 | 45.91 | 72 | 1.72 | 1.30 | 3.9 |
| 4/25/2015 18:19:04 | 51.84 | 46.24 | 205 | 1.74 | 1.14 | 11.2 |
| 4/25/2015 18:19:06 | 52.17 | 46.57 | 179 | 1.74 | 1.10 | 9.8 |
| 4/25/2015 18:19:08 | 52.49 | 46.89 | 184 | 1.73 | 1.16 | 10.1 |
| 4/25/2015 18:19:27 | 52.82 | 47.22 | 37 | 1.71 | 1.08 | 2.0 |
| 4/25/2015 18:19:28 | 53.15 | 47.55 | 111 | 1.76 | 0.88 | 6.1 |
| 4/25/2015 18:19:29 | 53.48 | 47.88 | 202 | 1.78 | 0.84 | 11.1 |
| 4/25/2015 18:19:30 | 53.81 | 48.21 | 294 | 1.71 | 0.98 | 16.1 |
| 4/25/2015 18:19:31 | 54.13 | 48.53 | 378 | 1.81 | 0.86 | 20.7 |
| 4/25/2015 18:20:22 | 54.46 | 48.86 | 20 | 1.76 | 1.16 | 1.1 |
| 4/25/2015 18:20:24 | 54.79 | 49.19 | 150 | 1.74 | 1.23 | 8.2 |
| 4/25/2015 18:20:26 | 55.12 | 49.52 | 157 | 1.72 | 1.12 | 8.6 |
| 4/25/2015 18:20:28 | 55.45 | 49.85 | 183 | 1.79 | 1.13 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 18:20:39 | 55.77 | 50.17 | 41 | 1.78 | 1.07 | 2.2 |
| 4/25/2015 | 18:20:45 | 56.10 | 50.50 | 65 | 1.79 | 1.08 | 3.6 |
| 4/25/2015 | 18:20:52 | 56.43 | 50.83 | 60 | 1.78 | 1.00 | 3.3 |
| 4/25/2015 | 18:20:58 | 56.76 | 51.16 | 64 | 1.77 | 1.05 | 3.5 |
| 4/25/2015 | 18:21:08 | 57.09 | 51.49 | 36 | 1.79 | 1.03 | 1.9 |
| 4/25/2015 | 18:21:09 | 57.14 | 51.54 | 38 | 1.76 | 1.20 | 2.1 |

## H318 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 18:15:36

**End Date:**
4/25/2015 18:29:32

**Operator Note:**
'5.6 5.6 C Auto Complete'

**Northing:**
366,270.80

**Easting:**
250,675.06

**Tide (feet):**
5.60



## Hole: H319 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:10:06 | 30.84 | 30.14 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:10:07 | 31.17 | 30.47 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:10:07 | 31.50 | 30.80 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 14:10:07 | 31.82 | 31.12 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 14:10:07 | 32.15 | 31.45 | 1,040 | 0.31 | 0.33 | 56.9 |
| 4/25/2015 14:10:08 | 32.48 | 31.78 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 14:10:08 | 32.81 | 32.11 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 14:10:08 | 33.14 | 32.44 | 1,038 | 0.32 | 0.31 | 56.8 |
| 4/25/2015 14:10:09 | 33.46 | 32.76 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 14:10:09 | 33.79 | 33.09 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 14:10:09 | 34.12 | 33.42 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 14:10:10 | 34.45 | 33.75 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/25/2015 14:10:10 | 34.78 | 34.08 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/25/2015 14:10:10 | 35.11 | 34.41 | 1,047 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 14:10:11 | 35.43 | 34.73 | 1,056 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:10:11 | 35.76 | 35.06 | 1,056 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:10:11 | 36.09 | 35.39 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:10:12 | 36.42 | 35.72 | 1,047 | 0.31 | 0.32 | 57.3 |
| 4/25/2015 14:10:12 | 36.75 | 36.05 | 1,047 | 0.31 | 0.32 | 57.3 |
| 4/25/2015 14:10:12 | 37.07 | 36.37 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 14:10:13 | 37.40 | 36.70 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/25/2015 14:10:13 | 37.73 | 37.03 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/25/2015 14:10:13 | 38.06 | 37.36 | 1,035 | 0.33 | 0.32 | 56.6 |
| 4/25/2015 14:10:14 | 38.39 | 37.69 | 1,051 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 14:10:15 | 38.71 | 38.01 | 1,051 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 14:10:14 | 39.04 | 38.34 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/25/2015 14:10:15 | 39.37 | 38.67 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 14:10:16 | 39.70 | 39.00 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 14:10:16 | 40.03 | 39.33 | 1,012 | 0.36 | 0.32 | 55.3 |
| 4/25/2015 14:10:16 | 40.35 | 39.65 | 1,028 | 0.35 | 0.32 | 56.2 |
| 4/25/2015 14:10:17 | 40.68 | 39.98 | 1,028 | 0.35 | 0.32 | 56.2 |
| 4/25/2015 14:10:17 | 41.01 | 40.31 | 999 | 0.33 | 0.32 | 54.6 |
| 4/25/2015 14:10:17 | 41.34 | 40.64 | 999 | 0.32 | 0.32 | 54.6 |
| 4/25/2015 14:10:18 | 41.67 | 40.97 | 999 | 0.32 | 0.32 | 54.6 |
| 4/25/2015 14:10:18 | 41.99 | 41.29 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/25/2015 14:10:18 | 42.32 | 41.62 | 986 | 0.32 | 0.31 | 53.9 |
| 4/25/2015 14:10:19 | 42.65 | 41.95 | 986 | 0.32 | 0.31 | 53.9 |
| 4/25/2015 14:10:19 | 42.98 | 42.28 | 986 | 0.31 | 0.31 | 53.9 |
| 4/25/2015 14:10:19 | 43.31 | 42.61 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 14:10:20 | 43.64 | 42.94 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 14:10:20 | 43.96 | 43.26 | 1,010 | 0.31 | 0.32 | 55.3 |
| 4/25/2015 14:10:20 | 44.29 | 43.59 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/25/2015 14:10:21 | 44.62 | 43.92 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/25/2015 14:10:21 | 44.95 | 44.25 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 14:10:21 | 45.28 | 44.58 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 14:10:22 | 45.60 | 44.90 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 14:10:22 | 45.93 | 45.23 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/25/2015 14:10:36 | 46.26 | 45.56 | 26 | 2.34 | 0.32 | 1.4 |
| 4/25/2015 14:10:36 | 46.59 | 45.89 | 26 | 2.34 | 0.32 | 1.4 |
| 4/25/2015 14:10:37 | 46.92 | 46.22 | 26 | 3.83 | 0.36 | 1.4 |
| 4/25/2015 14:10:38 | 47.24 | 46.54 | 284 | 4.59 | 0.39 | 15.6 |
| 4/25/2015 14:10:39 | 47.57 | 46.87 | 401 | 2.97 | 0.36 | 21.9 |
| 4/25/2015 14:10:40 | 47.90 | 47.20 | 337 | 4.15 | 0.36 | 18.4 |
| 4/25/2015 14:10:44 | 48.23 | 47.53 | 0 | 2.99 | 0.36 | 0.0 |
| 4/25/2015 14:10:45 | 48.56 | 47.86 | 126 | 3.60 | 0.36 | 6.9 |
| 4/25/2015 14:10:52 | 48.88 | 48.18 | 0 | 3.22 | 0.37 | 0.0 |
| 4/25/2015 14:10:53 | 49.21 | 48.51 | 98 | 3.63 | 0.37 | 5.4 |
| 4/25/2015 14:10:54 | 49.54 | 48.84 | 249 | 4.20 | 0.37 | 13.6 |
| 4/25/2015 14:11:24 | 49.87 | 49.17 | 9 | 3.38 | 0.38 | 0.5 |
| 4/25/2015 14:11:25 | 50.20 | 49.50 | 176 | 3.81 | 0.37 | 9.6 |
| 4/25/2015 14:11:28 | 50.53 | 49.83 | 150 | 3.07 | 0.39 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:12:35 | 50.85 | 50.15 | 41 | 2.93 | 0.39 | 2.2 |
| 4/25/2015 | 14:12:45 | 51.18 | 50.48 | 31 | 2.95 | 0.40 | 1.7 |
| 4/25/2015 | 14:12:53 | 51.51 | 50.81 | 57 | 2.84 | 0.40 | 3.1 |

## H319 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:07:35

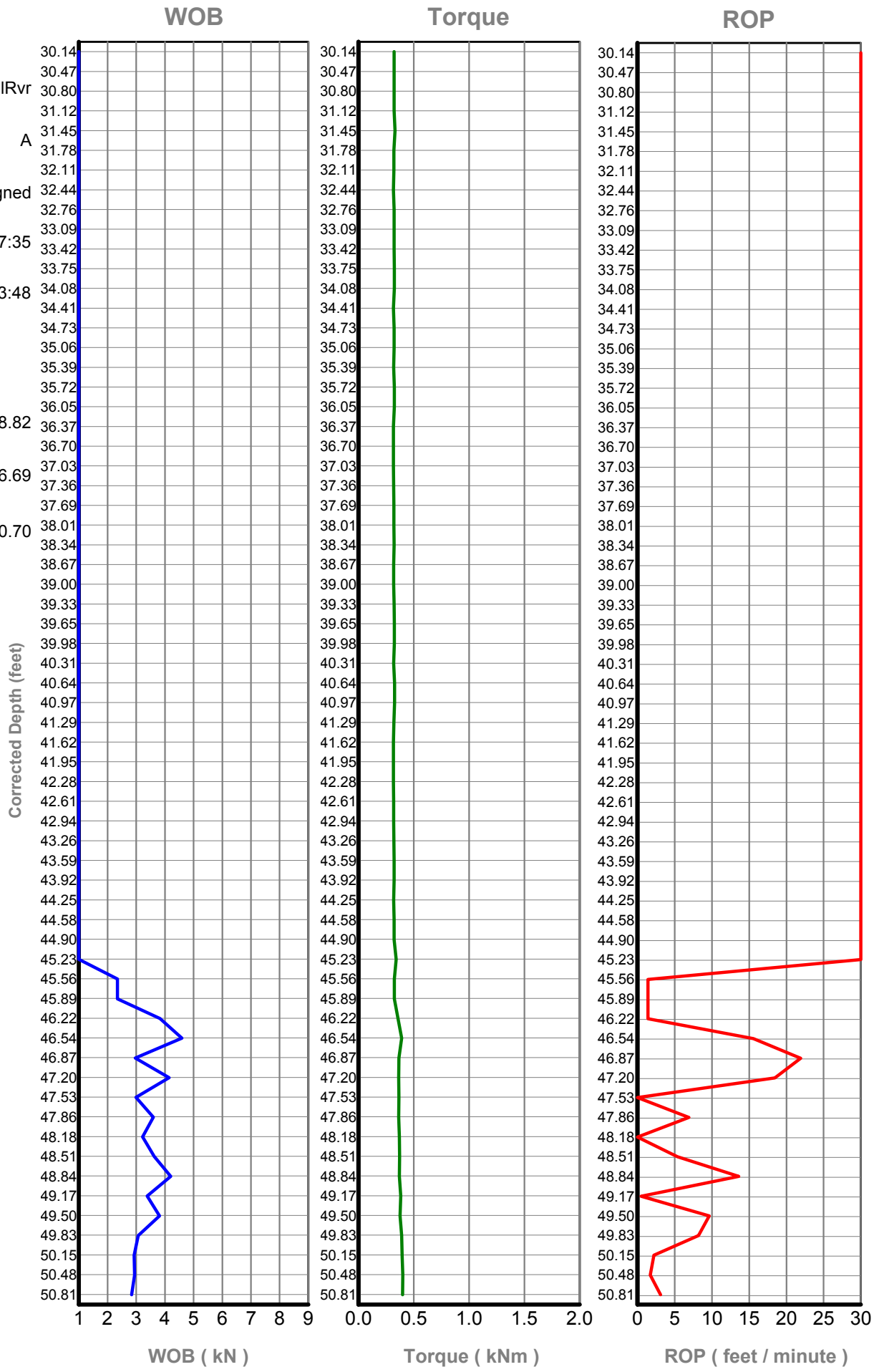
**End Date:**
4/25/2015 14:13:48

**Operator Note:**
'0.7 0.6 b Rock'

**Northing:**
366,338.82

**Easting:**
250,746.69

**Tide (feet):**
0.70



## Hole: H32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:01:24 | 33.14 | 30.24 | 898 | 0.20 | 0.33 | 49.1 |
| 4/24/2015 21:01:24 | 33.46 | 30.56 | 898 | 0.27 | 0.33 | 49.1 |
| 4/24/2015 21:01:25 | 33.79 | 30.89 | 897 | 0.20 | 0.33 | 49.1 |
| 4/24/2015 21:01:25 | 34.12 | 31.22 | 897 | 0.20 | 0.33 | 49.1 |
| 4/24/2015 21:01:26 | 34.45 | 31.55 | 897 | 0.20 | 0.33 | 49.1 |
| 4/24/2015 21:01:26 | 34.78 | 31.88 | 924 | 0.20 | 0.33 | 50.5 |
| 4/24/2015 21:01:26 | 35.11 | 32.21 | 925 | 0.20 | 0.33 | 50.6 |
| 4/24/2015 21:01:27 | 35.43 | 32.53 | 922 | 0.20 | 0.33 | 50.4 |
| 4/24/2015 21:01:27 | 35.76 | 32.86 | 922 | 0.20 | 0.33 | 50.4 |
| 4/24/2015 21:01:27 | 36.09 | 33.19 | 912 | 0.20 | 0.33 | 49.9 |
| 4/24/2015 21:01:28 | 36.42 | 33.52 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 21:01:29 | 36.75 | 33.85 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 21:01:29 | 37.07 | 34.17 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 21:01:29 | 37.40 | 34.50 | 882 | 0.20 | 0.33 | 48.2 |
| 4/24/2015 21:01:30 | 37.73 | 34.83 | 882 | 0.20 | 0.33 | 48.2 |
| 4/24/2015 21:01:30 | 38.06 | 35.16 | 897 | 0.20 | 0.36 | 49.0 |
| 4/24/2015 21:01:31 | 38.39 | 35.49 | 836 | 0.17 | 0.39 | 45.7 |
| 4/24/2015 21:01:53 | 38.71 | 35.81 | 22 | 2.99 | 0.37 | 1.2 |
| 4/24/2015 21:01:57 | 39.04 | 36.14 | 30 | 2.55 | 0.35 | 1.6 |
| 4/24/2015 21:01:57 | 39.37 | 36.47 | 30 | 2.38 | 0.35 | 1.6 |
| 4/24/2015 21:01:58 | 39.70 | 36.80 | 169 | 3.56 | 0.37 | 9.2 |
| 4/24/2015 21:02:00 | 40.03 | 37.13 | 303 | 5.25 | 0.40 | 16.6 |
| 4/24/2015 21:02:28 | 40.35 | 37.45 | 12 | 5.72 | 0.38 | 0.6 |
| 4/24/2015 21:02:30 | 40.68 | 37.78 | 109 | 3.77 | 0.40 | 5.9 |
| 4/24/2015 21:02:39 | 41.01 | 38.11 | 82 | 3.04 | 0.40 | 4.5 |
| 4/24/2015 21:02:44 | 41.34 | 38.44 | 64 | 3.73 | 0.40 | 3.5 |
| 4/24/2015 21:02:49 | 41.67 | 38.77 | 69 | 3.77 | 0.40 | 3.8 |
| 4/24/2015 21:02:54 | 41.99 | 39.09 | 69 | 3.86 | 0.40 | 3.8 |
| 4/24/2015 21:02:58 | 42.32 | 39.42 | 89 | 3.90 | 0.39 | 4.8 |
| 4/24/2015 21:03:03 | 42.65 | 39.75 | 81 | 3.60 | 0.40 | 4.5 |
| 4/24/2015 21:03:08 | 42.98 | 40.08 | 70 | 3.33 | 0.40 | 3.8 |
| 4/24/2015 21:03:12 | 43.31 | 40.41 | 78 | 3.31 | 0.40 | 4.3 |
| 4/24/2015 21:03:18 | 43.64 | 40.74 | 69 | 3.46 | 0.40 | 3.8 |
| 4/24/2015 21:03:22 | 43.96 | 41.06 | 78 | 3.36 | 0.40 | 4.3 |
| 4/24/2015 21:03:27 | 44.29 | 41.39 | 76 | 3.57 | 0.40 | 4.1 |
| 4/24/2015 21:03:31 | 44.62 | 41.72 | 75 | 3.62 | 0.40 | 4.1 |
| 4/24/2015 21:03:37 | 44.95 | 42.05 | 66 | 3.60 | 0.40 | 3.6 |
| 4/24/2015 21:03:42 | 45.28 | 42.38 | 78 | 3.48 | 0.40 | 4.3 |
| 4/24/2015 21:03:47 | 45.60 | 42.70 | 78 | 3.64 | 0.40 | 4.3 |
| 4/24/2015 21:03:52 | 45.93 | 43.03 | 78 | 3.39 | 0.40 | 4.3 |
| 4/24/2015 21:03:56 | 46.26 | 43.36 | 96 | 3.91 | 0.40 | 5.2 |
| 4/24/2015 21:04:00 | 46.59 | 43.69 | 78 | 3.41 | 0.40 | 4.3 |
| 4/24/2015 21:04:05 | 46.92 | 44.02 | 64 | 3.43 | 0.40 | 3.5 |
| 4/24/2015 21:04:10 | 47.24 | 44.34 | 74 | 3.29 | 0.40 | 4.0 |
| 4/24/2015 21:04:14 | 47.57 | 44.67 | 87 | 3.43 | 0.40 | 4.7 |
| 4/24/2015 21:04:18 | 47.90 | 45.00 | 95 | 3.53 | 0.40 | 5.2 |
| 4/24/2015 21:04:22 | 48.23 | 45.33 | 87 | 3.50 | 0.40 | 4.8 |
| 4/24/2015 21:04:27 | 48.56 | 45.66 | 75 | 3.50 | 0.40 | 4.1 |
| 4/24/2015 21:04:32 | 48.88 | 45.98 | 78 | 3.44 | 0.40 | 4.3 |
| 4/24/2015 21:04:37 | 49.21 | 46.31 | 78 | 3.52 | 0.40 | 4.3 |
| 4/24/2015 21:04:41 | 49.54 | 46.64 | 84 | 3.50 | 0.40 | 4.6 |
| 4/24/2015 21:04:42 | 49.67 | 46.77 | 85 | 4.62 | 0.41 | 4.7 |

## H32 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/24/2015 20:57:43

**End Date:**
4/24/2015 21:08:20

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
367,055.77

**Easting:**
250,803.30

**Tide (feet):**
2.90



## Hole: H320 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:15:51 | 30.84 | 30.04 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/25/2015 14:15:52 | 31.17 | 30.37 | 1,053 | 0.32 | 0.31 | 57.6 |
| 4/25/2015 14:15:52 | 31.50 | 30.70 | 1,036 | 0.17 | 0.31 | 56.6 |
| 4/25/2015 14:15:52 | 31.82 | 31.02 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/25/2015 14:15:53 | 32.15 | 31.35 | 1,042 | 0.32 | 0.31 | 57.0 |
| 4/25/2015 14:15:53 | 32.48 | 31.68 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:15:53 | 32.81 | 32.01 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:15:54 | 33.14 | 32.34 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:15:54 | 33.46 | 32.66 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/25/2015 14:15:54 | 33.79 | 32.99 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 14:15:55 | 34.12 | 33.32 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 14:15:55 | 34.45 | 33.65 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/25/2015 14:15:55 | 34.78 | 33.98 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/25/2015 14:15:56 | 35.11 | 34.31 | 1,012 | 0.32 | 0.31 | 55.3 |
| 4/25/2015 14:15:56 | 35.43 | 34.63 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/25/2015 14:15:56 | 35.76 | 34.96 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/25/2015 14:15:57 | 36.09 | 35.29 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/25/2015 14:15:57 | 36.42 | 35.62 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/25/2015 14:15:57 | 36.75 | 35.95 | 1,029 | 0.33 | 0.31 | 56.2 |
| 4/25/2015 14:15:58 | 37.07 | 36.27 | 1,029 | 0.33 | 0.31 | 56.2 |
| 4/25/2015 14:15:58 | 37.40 | 36.60 | 1,023 | 0.33 | 0.31 | 55.9 |
| 4/25/2015 14:15:58 | 37.73 | 36.93 | 1,024 | 0.33 | 0.31 | 56.0 |
| 4/25/2015 14:15:59 | 38.06 | 37.26 | 1,024 | 0.33 | 0.31 | 56.0 |
| 4/25/2015 14:15:59 | 38.39 | 37.59 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/25/2015 14:16:00 | 38.71 | 37.91 | 1,033 | 0.33 | 0.29 | 56.5 |
| 4/25/2015 14:16:00 | 39.04 | 38.24 | 1,033 | 0.33 | 0.29 | 56.5 |
| 4/25/2015 14:16:00 | 39.37 | 38.57 | 1,036 | 0.32 | 0.32 | 56.6 |
| 4/25/2015 14:16:01 | 39.70 | 38.90 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:16:01 | 40.03 | 39.23 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:16:01 | 40.35 | 39.55 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 14:16:02 | 40.68 | 39.88 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 14:16:02 | 41.01 | 40.21 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 14:16:02 | 41.34 | 40.54 | 1,017 | 0.33 | 0.31 | 55.6 |
| 4/25/2015 14:16:03 | 41.67 | 40.87 | 1,030 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 14:16:03 | 41.99 | 41.19 | 1,030 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 14:16:03 | 42.32 | 41.52 | 1,024 | 0.32 | 0.31 | 56.0 |
| 4/25/2015 14:16:04 | 42.65 | 41.85 | 1,030 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 14:16:04 | 42.98 | 42.18 | 1,030 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 14:16:04 | 43.31 | 42.51 | 1,030 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 14:16:05 | 43.64 | 42.84 | 1,042 | 0.32 | 0.32 | 57.0 |
| 4/25/2015 14:16:05 | 43.96 | 43.16 | 1,042 | 0.32 | 0.32 | 57.0 |
| 4/25/2015 14:16:05 | 44.29 | 43.49 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 14:16:06 | 44.62 | 43.82 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 14:16:06 | 44.95 | 44.15 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 14:16:06 | 45.28 | 44.48 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/25/2015 14:16:13 | 45.60 | 44.80 | 0 | 3.21 | 0.37 | 0.0 |
| 4/25/2015 14:16:15 | 45.93 | 45.13 | 143 | 2.28 | 0.33 | 7.8 |
| 4/25/2015 14:16:16 | 46.26 | 45.46 | 143 | 2.28 | 0.33 | 7.8 |
| 4/25/2015 14:16:21 | 46.59 | 45.79 | 97 | 3.35 | 0.37 | 5.3 |
| 4/25/2015 14:16:22 | 46.92 | 46.12 | 236 | 2.63 | 0.36 | 12.9 |
| 4/25/2015 14:16:47 | 47.24 | 46.44 | 3 | 3.55 | 0.36 | 0.2 |
| 4/25/2015 14:16:48 | 47.57 | 46.77 | 154 | 3.31 | 0.36 | 8.4 |
| 4/25/2015 14:16:49 | 47.90 | 47.10 | 313 | 3.42 | 0.34 | 17.1 |
| 4/25/2015 14:16:50 | 48.23 | 47.43 | 396 | 3.37 | 0.37 | 21.7 |
| 4/25/2015 14:17:02 | 48.56 | 47.76 | 0 | 3.12 | 0.37 | 0.0 |
| 4/25/2015 14:17:06 | 48.88 | 48.08 | 42 | 3.75 | 0.38 | 2.3 |
| 4/25/2015 14:17:07 | 49.21 | 48.41 | 177 | 3.40 | 0.37 | 9.7 |
| 4/25/2015 14:17:07 | 49.54 | 48.74 | 263 | 2.92 | 0.35 | 14.4 |
| 4/25/2015 14:17:08 | 49.87 | 49.07 | 369 | 2.51 | 0.34 | 20.2 |
| 4/25/2015 14:17:08 | 50.20 | 49.40 | 452 | 2.46 | 0.35 | 24.7 |
| 4/25/2015 14:17:55 | 50.53 | 49.73 | 0 | 2.92 | 0.35 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:17:56 | 50.85 | 50.05 | 197 | 3.16 | 0.34 | 10.8 |
| 4/25/2015 | 14:17:57 | 51.18 | 50.38 | 330 | 3.07 | 0.35 | 18.0 |
| 4/25/2015 | 14:17:57 | 51.51 | 50.71 | 449 | 2.17 | 0.35 | 24.5 |
| 4/25/2015 | 14:17:58 | 51.84 | 51.04 | 581 | 2.31 | 0.35 | 31.8 |
| 4/25/2015 | 14:17:58 | 52.17 | 51.37 | 631 | 2.38 | 0.34 | 34.5 |
| 4/25/2015 | 14:17:59 | 52.49 | 51.69 | 657 | 2.29 | 0.33 | 35.9 |
| 4/25/2015 | 14:17:59 | 52.82 | 52.02 | 663 | 2.25 | 0.34 | 36.2 |
| 4/25/2015 | 14:18:00 | 53.15 | 52.35 | 674 | 3.08 | 0.35 | 36.8 |
| 4/25/2015 | 14:18:00 | 53.48 | 52.68 | 662 | 2.99 | 0.35 | 36.2 |
| 4/25/2015 | 14:18:01 | 53.81 | 53.01 | 647 | 2.72 | 0.35 | 35.4 |
| 4/25/2015 | 14:18:01 | 54.13 | 53.33 | 633 | 2.71 | 0.34 | 34.6 |
| 4/25/2015 | 14:18:02 | 54.46 | 53.66 | 617 | 3.47 | 0.36 | 33.8 |
| 4/25/2015 | 14:18:03 | 54.79 | 53.99 | 584 | 3.31 | 0.36 | 31.9 |
| 4/25/2015 | 14:18:04 | 55.12 | 54.32 | 551 | 2.71 | 0.36 | 30.1 |
| 4/25/2015 | 14:18:05 | 55.45 | 54.65 | 512 | 2.31 | 0.35 | 28.0 |
| 4/25/2015 | 14:18:05 | 55.74 | 54.94 | 512 | 2.31 | 0.35 | 28.0 |

## H320 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:14:01

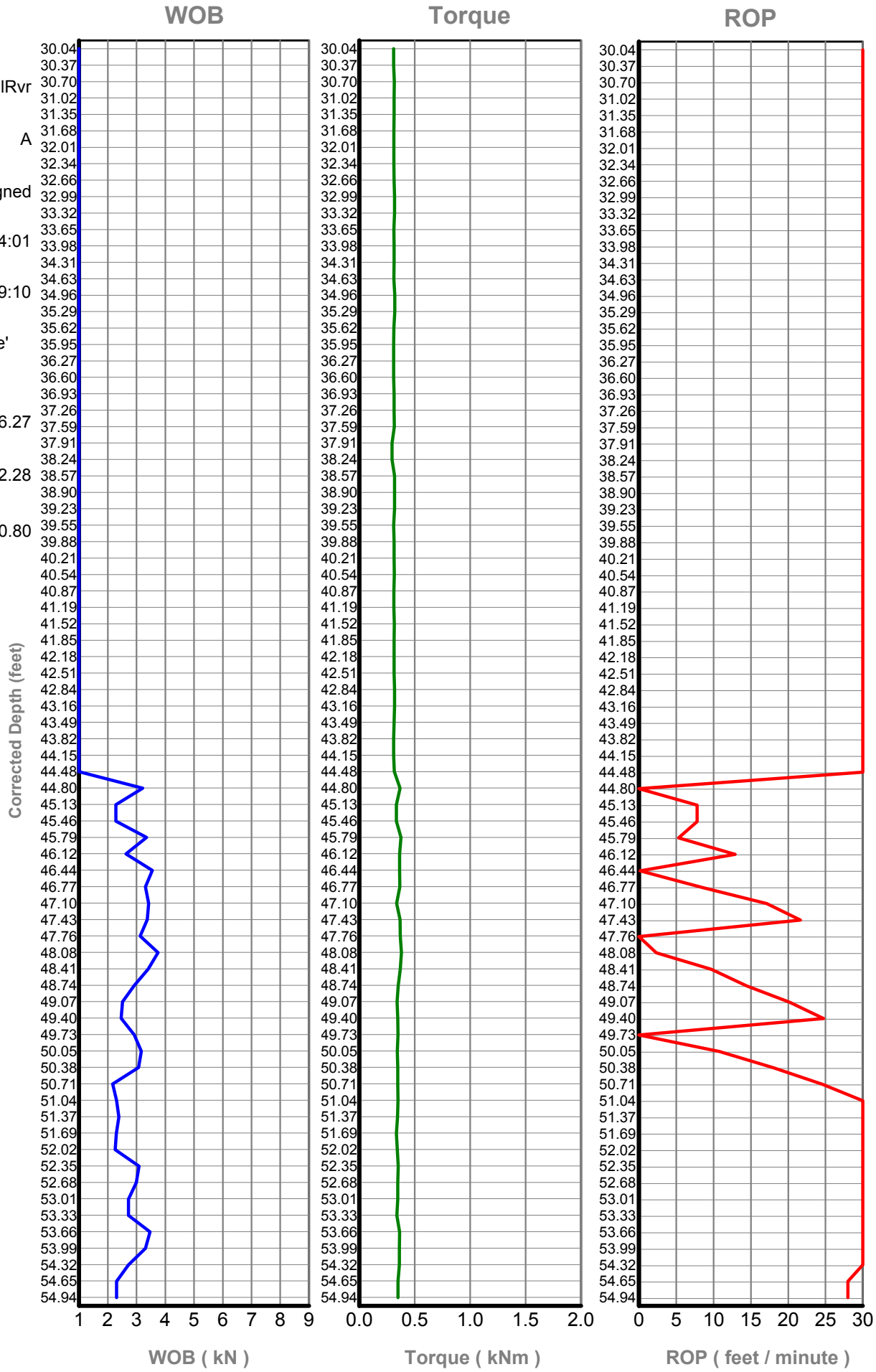
**End Date:**
4/25/2015 14:19:10

**Operator Note:**
'0.8 0.7 b Auto Complete'

**Northing:**
366,376.27

**Easting:**
250,792.28

**Tide (feet):**
0.80



## Hole: H321 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:11:13 | 30.84 | 30.04 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 14:11:14 | 31.17 | 30.37 | 555 | 1.76 | 0.30 | 30.4 |
| 4/25/2015 14:11:14 | 31.50 | 30.70 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 14:11:15 | 31.82 | 31.02 | 552 | 1.78 | 0.30 | 30.2 |
| 4/25/2015 14:11:16 | 32.15 | 31.35 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 14:11:16 | 32.48 | 31.68 | 558 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 14:11:17 | 32.81 | 32.01 | 558 | 1.78 | 0.30 | 30.5 |
| 4/25/2015 14:11:17 | 33.14 | 32.34 | 558 | 1.75 | 0.30 | 30.5 |
| 4/25/2015 14:11:18 | 33.46 | 32.66 | 555 | 1.75 | 0.30 | 30.4 |
| 4/25/2015 14:11:19 | 33.79 | 32.99 | 552 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 14:11:19 | 34.12 | 33.32 | 558 | 1.76 | 0.29 | 30.5 |
| 4/25/2015 14:11:20 | 34.45 | 33.65 | 558 | 1.76 | 0.29 | 30.5 |
| 4/25/2015 14:11:20 | 34.78 | 33.98 | 555 | 1.77 | 0.29 | 30.4 |
| 4/25/2015 14:11:21 | 35.11 | 34.31 | 559 | 1.77 | 0.29 | 30.6 |
| 4/25/2015 14:11:22 | 35.43 | 34.63 | 553 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 14:11:23 | 35.76 | 34.96 | 553 | 1.77 | 0.29 | 30.2 |
| 4/25/2015 14:11:23 | 36.09 | 35.29 | 553 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:24 | 36.42 | 35.62 | 555 | 1.77 | 0.29 | 30.3 |
| 4/25/2015 14:11:25 | 36.75 | 35.95 | 555 | 1.75 | 0.30 | 30.3 |
| 4/25/2015 14:11:25 | 37.07 | 36.27 | 558 | 1.74 | 0.29 | 30.5 |
| 4/25/2015 14:11:26 | 37.40 | 36.60 | 558 | 1.75 | 0.29 | 30.5 |
| 4/25/2015 14:11:27 | 37.73 | 36.93 | 555 | 1.78 | 0.29 | 30.3 |
| 4/25/2015 14:11:27 | 38.06 | 37.26 | 555 | 1.76 | 0.30 | 30.3 |
| 4/25/2015 14:11:28 | 38.39 | 37.59 | 555 | 1.77 | 0.29 | 30.3 |
| 4/25/2015 14:11:28 | 38.71 | 37.91 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:29 | 39.04 | 38.24 | 552 | 1.77 | 0.29 | 30.2 |
| 4/25/2015 14:11:30 | 39.37 | 38.57 | 555 | 1.77 | 0.29 | 30.4 |
| 4/25/2015 14:11:30 | 39.70 | 38.90 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:31 | 40.03 | 39.23 | 556 | 1.76 | 0.29 | 30.4 |
| 4/25/2015 14:11:31 | 40.35 | 39.55 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:33 | 40.68 | 39.88 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:33 | 41.01 | 40.21 | 552 | 1.78 | 0.29 | 30.2 |
| 4/25/2015 14:11:34 | 41.34 | 40.54 | 549 | 1.77 | 0.30 | 30.0 |
| 4/25/2015 14:11:34 | 41.67 | 40.87 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:35 | 41.99 | 41.19 | 552 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 14:11:36 | 42.32 | 41.52 | 552 | 1.76 | 0.29 | 30.2 |
| 4/25/2015 14:11:36 | 42.65 | 41.85 | 552 | 1.77 | 0.30 | 30.2 |
| 4/25/2015 14:11:37 | 42.98 | 42.18 | 553 | 1.74 | 0.29 | 30.2 |
| 4/25/2015 14:11:38 | 43.31 | 42.51 | 540 | 1.76 | 0.29 | 29.5 |
| 4/25/2015 14:11:38 | 43.64 | 42.84 | 540 | 1.74 | 0.29 | 29.5 |
| 4/25/2015 14:11:39 | 43.96 | 43.16 | 545 | 1.76 | 0.29 | 29.8 |
| 4/25/2015 14:11:39 | 44.29 | 43.49 | 548 | 1.77 | 0.29 | 30.0 |
| 4/25/2015 14:11:40 | 44.62 | 43.82 | 548 | 1.76 | 0.29 | 30.0 |
| 4/25/2015 14:11:41 | 44.95 | 44.15 | 557 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 14:11:41 | 45.28 | 44.48 | 552 | 1.74 | 0.30 | 30.2 |
| 4/25/2015 14:12:01 | 45.60 | 44.80 | 78 | 1.78 | 1.05 | 4.3 |
| 4/25/2015 14:12:03 | 45.93 | 45.13 | 150 | 1.79 | 1.27 | 8.2 |
| 4/25/2015 14:12:06 | 46.26 | 45.46 | 203 | 1.76 | 1.24 | 11.1 |
| 4/25/2015 14:12:07 | 46.59 | 45.79 | 231 | 1.74 | 1.24 | 12.7 |
| 4/25/2015 14:12:21 | 46.92 | 46.12 | 35 | 1.76 | 1.26 | 1.9 |
| 4/25/2015 14:12:23 | 47.24 | 46.44 | 130 | 1.78 | 1.12 | 7.1 |
| 4/25/2015 14:12:25 | 47.57 | 46.77 | 232 | 1.73 | 1.25 | 12.7 |
| 4/25/2015 14:12:26 | 47.90 | 47.10 | 244 | 1.78 | 1.13 | 13.4 |
| 4/25/2015 14:13:44 | 48.23 | 47.43 | 0 | 1.74 | 1.11 | 0.0 |
| 4/25/2015 14:13:45 | 48.56 | 47.76 | 87 | 1.75 | 1.01 | 4.8 |
| 4/25/2015 14:13:46 | 48.88 | 48.08 | 270 | 1.76 | 0.85 | 14.8 |
| 4/25/2015 14:13:46 | 49.21 | 48.41 | 382 | 1.76 | 0.83 | 20.9 |
| 4/25/2015 14:14:24 | 49.54 | 48.74 | 0 | 1.78 | 1.47 | 0.0 |
| 4/25/2015 14:14:25 | 49.87 | 49.07 | 98 | 1.80 | 1.17 | 5.4 |
| 4/25/2015 14:14:27 | 50.20 | 49.40 | 195 | 1.79 | 1.10 | 10.6 |
| 4/25/2015 14:14:49 | 50.53 | 49.73 | 74 | 1.75 | 0.89 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:14:51 | 50.85 | 50.05 | 248 | 1.79 | 0.96 | 13.6 |
| 4/25/2015 | 14:14:51 | 51.18 | 50.38 | 337 | 1.79 | 1.07 | 18.4 |
| 4/25/2015 | 14:16:06 | 51.51 | 50.71 | 31 | 1.79 | 1.10 | 1.7 |
| 4/25/2015 | 14:16:07 | 51.84 | 51.04 | 145 | 1.76 | 1.09 | 8.0 |
| 4/25/2015 | 14:16:08 | 52.17 | 51.37 | 256 | 1.79 | 1.11 | 14.0 |
| 4/25/2015 | 14:16:09 | 52.49 | 51.69 | 285 | 1.79 | 1.07 | 15.6 |
| 4/25/2015 | 14:16:10 | 52.82 | 52.02 | 287 | 1.76 | 1.02 | 15.7 |
| 4/25/2015 | 14:17:52 | 53.15 | 52.35 | 3 | 1.77 | 1.15 | 0.1 |
| 4/25/2015 | 14:17:53 | 53.48 | 52.68 | 86 | 1.76 | 1.49 | 4.7 |
| 4/25/2015 | 14:17:55 | 53.81 | 53.01 | 202 | 1.76 | 1.16 | 11.0 |
| 4/25/2015 | 14:18:02 | 54.13 | 53.33 | 90 | 1.75 | 1.13 | 4.9 |
| 4/25/2015 | 14:18:03 | 54.46 | 53.66 | 243 | 1.76 | 1.13 | 13.3 |
| 4/25/2015 | 14:18:05 | 54.79 | 53.99 | 249 | 1.74 | 1.06 | 13.6 |
| 4/25/2015 | 14:18:31 | 55.12 | 54.32 | 23 | 1.80 | 1.11 | 1.2 |
| 4/25/2015 | 14:18:33 | 55.45 | 54.65 | 156 | 1.77 | 1.21 | 8.5 |
| 4/25/2015 | 14:18:34 | 55.77 | 54.97 | 248 | 1.76 | 1.20 | 13.6 |
| 4/25/2015 | 14:18:34 | 55.89 | 55.09 | 248 | 1.76 | 1.20 | 13.6 |

## H321 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:09:20

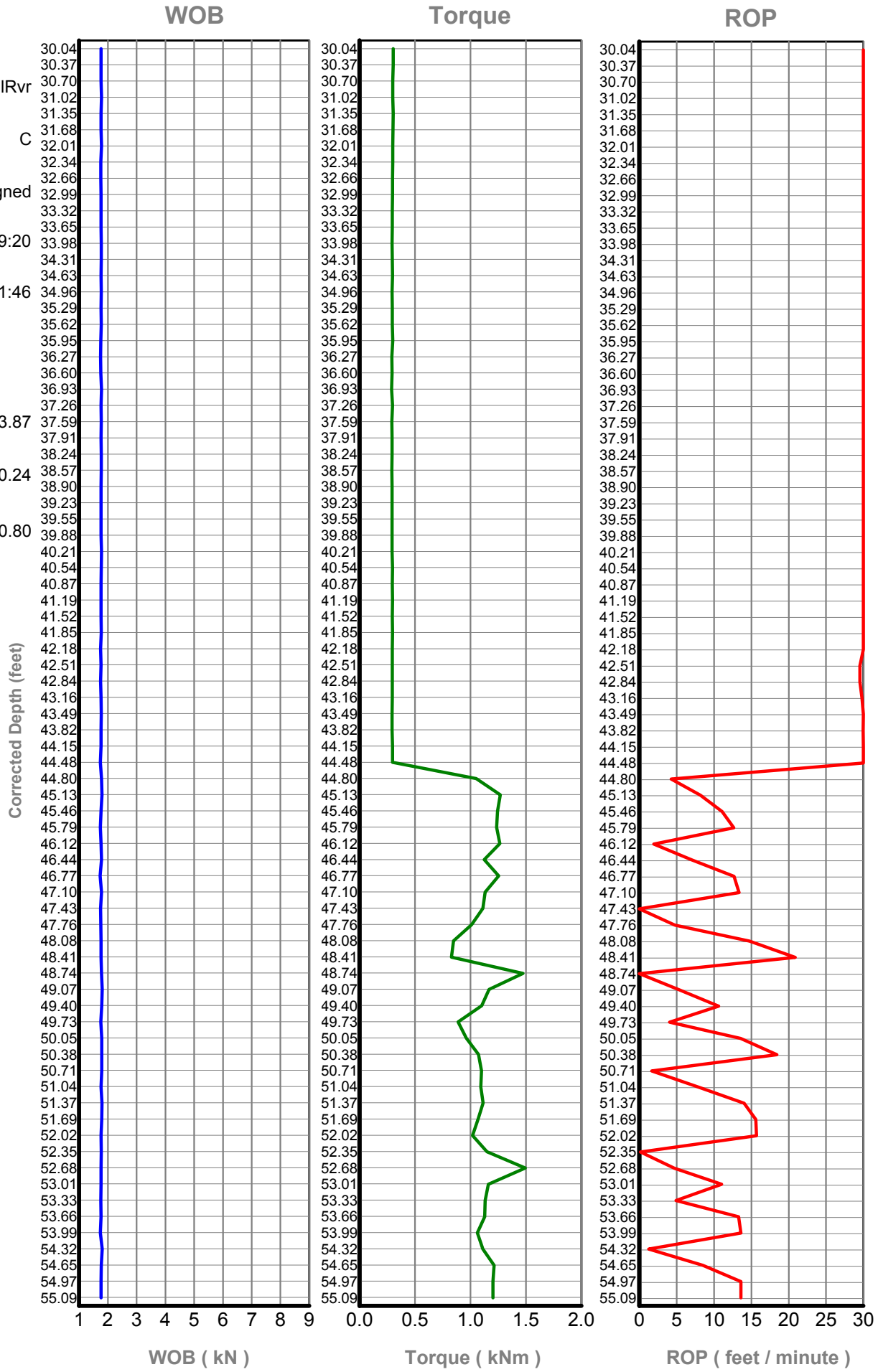
**End Date:**
4/25/2015 14:21:46

**Operator Note:**
'0.8 Auto Complete'

**Northing:**
366,423.87

**Easting:**
250,850.24

**Tide (feet):**
0.80



## Hole: H322 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 5:22:03 | 36.42 | 30.22 | 818 | 0.93 | 0.33 | 44.7 |
| 4/25/2015 5:22:03 | 36.75 | 30.55 | 821 | 0.93 | 0.33 | 44.9 |
| 4/25/2015 5:22:04 | 37.07 | 30.87 | 815 | 0.93 | 0.32 | 44.6 |
| 4/25/2015 5:22:04 | 37.40 | 31.20 | 815 | 0.93 | 0.32 | 44.6 |
| 4/25/2015 5:22:04 | 37.73 | 31.53 | 820 | 0.93 | 0.33 | 44.8 |
| 4/25/2015 5:22:05 | 38.06 | 31.86 | 816 | 0.93 | 0.33 | 44.6 |
| 4/25/2015 5:22:05 | 38.39 | 32.19 | 827 | 0.93 | 0.32 | 45.2 |
| 4/25/2015 5:22:06 | 38.71 | 32.51 | 811 | 0.93 | 0.33 | 44.3 |
| 4/25/2015 5:22:06 | 39.04 | 32.84 | 822 | 0.94 | 0.33 | 44.9 |
| 4/25/2015 5:22:07 | 39.37 | 33.17 | 822 | 0.94 | 0.33 | 44.9 |
| 4/25/2015 5:22:07 | 39.70 | 33.50 | 827 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 5:22:08 | 40.03 | 33.83 | 826 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 5:22:08 | 40.35 | 34.15 | 823 | 0.23 | 0.33 | 45.0 |
| 4/25/2015 5:22:09 | 40.68 | 34.48 | 826 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 5:22:09 | 41.01 | 34.81 | 823 | 0.23 | 0.33 | 45.0 |
| 4/25/2015 5:22:10 | 41.34 | 35.14 | 823 | 0.23 | 0.33 | 45.0 |
| 4/25/2015 5:22:10 | 41.67 | 35.47 | 824 | 0.23 | 0.33 | 45.0 |
| 4/25/2015 5:22:10 | 41.99 | 35.79 | 821 | 0.23 | 0.32 | 44.9 |
| 4/25/2015 5:22:11 | 42.32 | 36.12 | 829 | 0.23 | 0.33 | 45.3 |
| 4/25/2015 5:22:11 | 42.65 | 36.45 | 847 | 0.23 | 0.33 | 46.3 |
| 4/25/2015 5:22:12 | 42.98 | 36.78 | 847 | 0.23 | 0.33 | 46.3 |
| 4/25/2015 5:22:12 | 43.31 | 37.11 | 826 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 5:22:12 | 43.64 | 37.44 | 820 | 0.23 | 0.33 | 44.9 |
| 4/25/2015 5:22:13 | 43.96 | 37.76 | 833 | 0.23 | 0.33 | 45.5 |
| 4/25/2015 5:22:13 | 44.29 | 38.09 | 833 | 0.23 | 0.33 | 45.5 |
| 4/25/2015 5:22:14 | 44.62 | 38.42 | 834 | 0.23 | 0.32 | 45.6 |
| 4/25/2015 5:22:14 | 44.95 | 38.75 | 834 | 0.23 | 0.32 | 45.6 |
| 4/25/2015 5:22:14 | 45.28 | 39.08 | 815 | 0.22 | 0.32 | 44.6 |
| 4/25/2015 5:22:15 | 45.60 | 39.40 | 815 | 0.22 | 0.32 | 44.6 |
| 4/25/2015 5:22:15 | 45.93 | 39.73 | 833 | 0.23 | 0.32 | 45.6 |
| 4/25/2015 5:22:16 | 46.26 | 40.06 | 836 | 0.22 | 0.34 | 45.7 |
| 4/25/2015 5:22:16 | 46.59 | 40.39 | 833 | 0.23 | 0.32 | 45.5 |
| 4/25/2015 5:22:17 | 46.92 | 40.72 | 833 | 0.23 | 0.32 | 45.5 |
| 4/25/2015 5:22:17 | 47.24 | 41.04 | 810 | 0.23 | 0.33 | 44.3 |
| 4/25/2015 5:22:18 | 47.57 | 41.37 | 820 | 0.23 | 0.33 | 44.8 |
| 4/25/2015 5:22:18 | 47.90 | 41.70 | 813 | 0.22 | 0.33 | 44.4 |
| 4/25/2015 5:22:19 | 48.23 | 42.03 | 810 | 0.23 | 0.33 | 44.3 |
| 4/25/2015 5:22:19 | 48.56 | 42.36 | 810 | 0.24 | 0.32 | 44.3 |
| 4/25/2015 5:22:20 | 48.88 | 42.68 | 810 | 0.24 | 0.32 | 44.3 |
| 4/25/2015 5:22:20 | 49.21 | 43.01 | 813 | 0.23 | 0.33 | 44.5 |
| 4/25/2015 5:22:20 | 49.54 | 43.34 | 822 | 0.23 | 0.33 | 45.0 |
| 4/25/2015 5:22:21 | 49.87 | 43.67 | 806 | 0.17 | 0.33 | 44.1 |
| 4/25/2015 5:22:21 | 50.20 | 44.00 | 806 | 0.23 | 0.32 | 44.1 |
| 4/25/2015 5:22:22 | 50.53 | 44.33 | 813 | 0.23 | 0.33 | 44.5 |
| 4/25/2015 5:22:22 | 50.85 | 44.65 | 800 | 0.22 | 0.35 | 43.8 |
| 4/25/2015 5:22:23 | 51.18 | 44.98 | 778 | 0.21 | 0.37 | 42.5 |
| 4/25/2015 5:23:29 | 51.51 | 45.31 | 12 | 3.57 | 0.38 | 0.6 |
| 4/25/2015 5:23:31 | 51.84 | 45.64 | 37 | 5.76 | 0.38 | 2.0 |
| 4/25/2015 5:23:38 | 52.17 | 45.97 | 0 | 3.71 | 0.37 | 0.0 |
| 4/25/2015 5:23:48 | 52.49 | 46.29 | 55 | 5.64 | 0.40 | 3.0 |
| 4/25/2015 5:23:50 | 52.82 | 46.62 | 120 | 3.87 | 0.38 | 6.6 |
| 4/25/2015 5:23:52 | 53.15 | 46.95 | 199 | 4.42 | 0.38 | 10.9 |
| 4/25/2015 5:23:54 | 53.48 | 47.28 | 170 | 3.62 | 0.39 | 9.3 |
| 4/25/2015 5:23:55 | 53.81 | 47.61 | 227 | 4.56 | 0.38 | 12.4 |
| 4/25/2015 5:23:57 | 54.13 | 47.93 | 203 | 4.35 | 0.38 | 11.1 |
| 4/25/2015 5:24:02 | 54.46 | 48.26 | 70 | 5.82 | 0.40 | 3.8 |
| 4/25/2015 5:24:16 | 54.79 | 48.59 | 0 | 4.19 | 0.36 | 0.0 |
| 4/25/2015 5:24:17 | 55.12 | 48.92 | 45 | 5.31 | 0.38 | 2.5 |
| 4/25/2015 5:24:18 | 55.45 | 49.25 | 228 | 3.80 | 0.37 | 12.5 |
| 4/25/2015 5:24:19 | 55.77 | 49.57 | 286 | 6.24 | 0.38 | 15.6 |
| 4/25/2015 5:24:22 | 56.10 | 49.90 | 175 | 6.73 | 0.39 | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 5:24:24 | 56.43 | 50.23 | 129 | 3.52 | 0.37 | 7.1 |
| 4/25/2015 | 5:24:25 | 56.76 | 50.56 | 243 | 5.59 | 0.39 | 13.3 |
| 4/25/2015 | 5:24:26 | 57.09 | 50.89 | 286 | 2.71 | 0.34 | 15.7 |
| 4/25/2015 | 5:24:27 | 57.41 | 51.21 | 403 | 3.76 | 0.36 | 22.1 |
| 4/25/2015 | 5:24:27 | 57.74 | 51.54 | 403 | 6.69 | 0.37 | 22.1 |
| 4/25/2015 | 5:24:28 | 58.07 | 51.87 | 403 | 4.05 | 0.37 | 22.0 |
| 4/25/2015 | 5:24:30 | 58.40 | 52.20 | 307 | 3.73 | 0.39 | 16.8 |
| 4/25/2015 | 5:24:32 | 58.73 | 52.53 | 186 | 3.34 | 0.39 | 10.2 |
| 4/25/2015 | 5:24:35 | 59.06 | 52.86 | 125 | 5.01 | 0.38 | 6.9 |
| 4/25/2015 | 5:24:41 | 59.38 | 53.18 | 60 | 5.46 | 0.38 | 3.3 |
| 4/25/2015 | 5:24:47 | 59.71 | 53.51 | 64 | 4.23 | 0.38 | 3.5 |
| 4/25/2015 | 5:24:49 | 60.04 | 53.84 | 135 | 4.45 | 0.40 | 7.4 |
| 4/25/2015 | 5:24:52 | 60.37 | 54.17 | 137 | 6.40 | 0.40 | 7.5 |
| 4/25/2015 | 5:24:54 | 60.70 | 54.50 | 144 | 4.31 | 0.37 | 7.9 |
| 4/25/2015 | 5:24:56 | 61.02 | 54.82 | 206 | 3.41 | 0.39 | 11.2 |
| 4/25/2015 | 5:24:58 | 61.35 | 55.15 | 159 | 3.28 | 0.38 | 8.7 |
| 4/25/2015 | 5:24:59 | 61.68 | 55.48 | 178 | 3.17 | 0.38 | 9.7 |
| 4/25/2015 | 5:25:01 | 62.01 | 55.81 | 232 | 3.07 | 0.38 | 12.7 |
| 4/25/2015 | 5:25:01 | 62.14 | 55.94 | 243 | 4.20 | 0.38 | 13.3 |

## H322 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 5:17:06

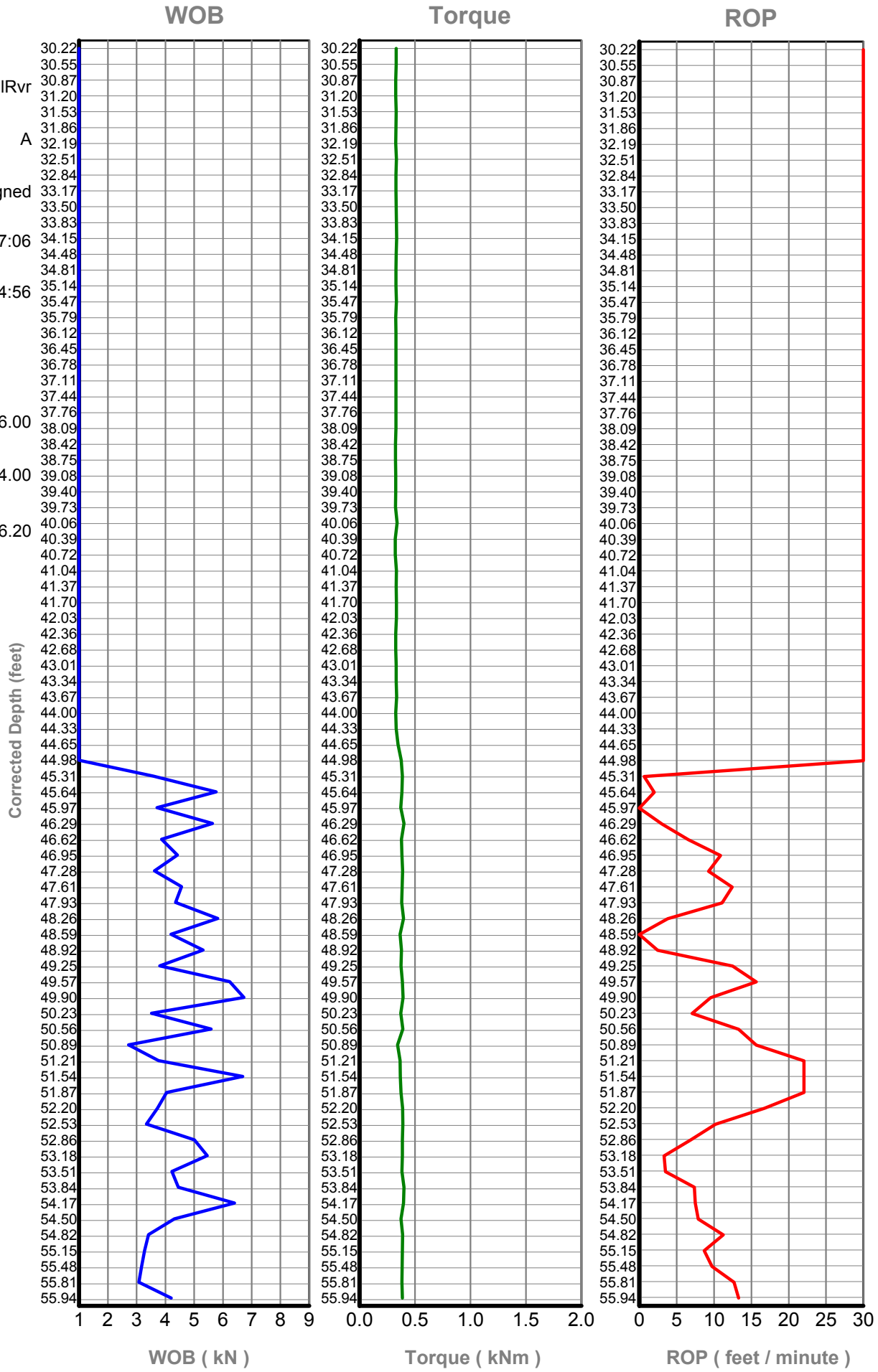
**End Date:**
4/25/2015 5:44:56

**Operator Note:**
'6.2 6 b Auto Complete'

**Northing:**
366,476.00

**Easting:**
250,914.00

**Tide (feet):**
6.20



## Hole: H323 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 5:09:09 | 36.09 | 30.09 | 766 | 1.25 | 0.34 | 41.9 |
| 4/25/2015 5:09:09 | 36.42 | 30.42 | 758 | 1.26 | 0.34 | 41.5 |
| 4/25/2015 5:09:10 | 36.75 | 30.75 | 756 | 1.24 | 0.34 | 41.4 |
| 4/25/2015 5:09:17 | 37.07 | 31.07 | 0 | 1.20 | 0.34 | 0.0 |
| 4/25/2015 5:09:18 | 37.40 | 31.40 | 17 | 1.20 | 0.35 | 0.9 |
| 4/25/2015 5:09:18 | 37.73 | 31.73 | 149 | 1.23 | 0.35 | 8.1 |
| 4/25/2015 5:09:19 | 38.06 | 32.06 | 296 | 1.17 | 0.34 | 16.2 |
| 4/25/2015 5:09:19 | 38.39 | 32.39 | 436 | 1.25 | 0.34 | 23.8 |
| 4/25/2015 5:09:20 | 38.71 | 32.71 | 583 | 1.24 | 0.34 | 31.9 |
| 4/25/2015 5:09:20 | 39.04 | 33.04 | 708 | 0.27 | 0.34 | 38.7 |
| 4/25/2015 5:09:21 | 39.37 | 33.37 | 723 | 0.27 | 0.34 | 39.5 |
| 4/25/2015 5:09:21 | 39.70 | 33.70 | 723 | 0.26 | 0.34 | 39.5 |
| 4/25/2015 5:09:22 | 40.03 | 34.03 | 723 | 0.27 | 0.35 | 39.5 |
| 4/25/2015 5:09:22 | 40.35 | 34.35 | 715 | 0.27 | 0.34 | 39.1 |
| 4/25/2015 5:09:23 | 40.68 | 34.68 | 720 | 0.27 | 0.34 | 39.4 |
| 4/25/2015 5:09:23 | 41.01 | 35.01 | 720 | 0.27 | 0.34 | 39.4 |
| 4/25/2015 5:09:24 | 41.34 | 35.34 | 720 | 0.27 | 0.34 | 39.4 |
| 4/25/2015 5:09:24 | 41.67 | 35.67 | 723 | 0.27 | 0.34 | 39.5 |
| 4/25/2015 5:09:25 | 41.99 | 35.99 | 731 | 0.28 | 0.34 | 40.0 |
| 4/25/2015 5:09:25 | 42.32 | 36.32 | 731 | 0.27 | 0.34 | 40.0 |
| 4/25/2015 5:09:26 | 42.65 | 36.65 | 728 | 0.28 | 0.34 | 39.8 |
| 4/25/2015 5:09:26 | 42.98 | 36.98 | 727 | 0.28 | 0.34 | 39.7 |
| 4/25/2015 5:09:27 | 43.31 | 37.31 | 727 | 0.28 | 0.34 | 39.7 |
| 4/25/2015 5:09:27 | 43.64 | 37.64 | 734 | 0.28 | 0.34 | 40.1 |
| 4/25/2015 5:09:27 | 43.96 | 37.96 | 728 | 0.28 | 0.34 | 39.8 |
| 4/25/2015 5:09:28 | 44.29 | 38.29 | 728 | 0.28 | 0.34 | 39.8 |
| 4/25/2015 5:09:29 | 44.62 | 38.62 | 728 | 0.28 | 0.34 | 39.8 |
| 4/25/2015 5:09:29 | 44.95 | 38.95 | 730 | 0.27 | 0.35 | 39.9 |
| 4/25/2015 5:09:30 | 45.28 | 39.28 | 720 | 0.27 | 0.34 | 39.4 |
| 4/25/2015 5:09:30 | 45.60 | 39.60 | 724 | 0.27 | 0.34 | 39.6 |
| 4/25/2015 5:09:31 | 45.93 | 39.93 | 719 | 0.27 | 0.34 | 39.3 |
| 4/25/2015 5:09:31 | 46.26 | 40.26 | 726 | 0.28 | 0.34 | 39.7 |
| 4/25/2015 5:09:32 | 46.59 | 40.59 | 726 | 0.27 | 0.35 | 39.7 |
| 4/25/2015 5:09:32 | 46.92 | 40.92 | 729 | 0.27 | 0.34 | 39.8 |
| 4/25/2015 5:09:33 | 47.24 | 41.24 | 721 | 0.27 | 0.34 | 39.4 |
| 4/25/2015 5:09:33 | 47.57 | 41.57 | 727 | 0.27 | 0.35 | 39.8 |
| 4/25/2015 5:09:34 | 47.90 | 41.90 | 700 | 0.27 | 0.34 | 38.3 |
| 4/25/2015 5:09:34 | 48.23 | 42.23 | 700 | 0.27 | 0.34 | 38.3 |
| 4/25/2015 5:09:35 | 48.56 | 42.56 | 702 | 0.27 | 0.34 | 38.4 |
| 4/25/2015 5:09:35 | 48.88 | 42.88 | 702 | 0.27 | 0.34 | 38.4 |
| 4/25/2015 5:09:36 | 49.21 | 43.21 | 706 | 0.27 | 0.35 | 38.6 |
| 4/25/2015 5:09:36 | 49.54 | 43.54 | 699 | 0.27 | 0.34 | 38.2 |
| 4/25/2015 5:09:37 | 49.87 | 43.87 | 719 | 0.27 | 0.35 | 39.3 |
| 4/25/2015 5:09:37 | 50.20 | 44.20 | 714 | 0.28 | 0.35 | 39.0 |
| 4/25/2015 5:09:38 | 50.53 | 44.53 | 708 | 0.27 | 0.35 | 38.7 |
| 4/25/2015 5:09:39 | 50.85 | 44.85 | 705 | 0.26 | 0.36 | 38.6 |
| 4/25/2015 5:09:39 | 51.18 | 45.18 | 688 | 0.24 | 0.38 | 37.6 |
| 4/25/2015 5:10:17 | 51.51 | 45.51 | 50 | 4.63 | 0.40 | 2.7 |
| 4/25/2015 5:10:29 | 51.84 | 45.84 | 0 | 3.26 | 0.38 | 0.0 |
| 4/25/2015 5:10:36 | 52.17 | 46.17 | 72 | 4.81 | 0.41 | 3.9 |
| 4/25/2015 5:10:40 | 52.49 | 46.49 | 92 | 5.21 | 0.38 | 5.0 |
| 4/25/2015 5:10:41 | 52.82 | 46.82 | 222 | 4.21 | 0.40 | 12.2 |
| 4/25/2015 5:10:43 | 53.15 | 47.15 | 296 | 6.73 | 0.39 | 16.2 |
| 4/25/2015 5:10:44 | 53.48 | 47.48 | 285 | 2.53 | 0.35 | 15.6 |
| 4/25/2015 5:10:58 | 53.81 | 47.81 | 9 | 2.57 | 0.35 | 0.5 |
| 4/25/2015 5:10:59 | 54.13 | 48.13 | 125 | 3.10 | 0.36 | 6.8 |
| 4/25/2015 5:11:00 | 54.46 | 48.46 | 302 | 4.21 | 0.40 | 16.5 |
| 4/25/2015 5:11:07 | 54.79 | 48.79 | 50 | 4.72 | 0.41 | 2.7 |
| 4/25/2015 5:11:08 | 55.12 | 49.12 | 152 | 5.09 | 0.40 | 8.3 |
| 4/25/2015 5:11:10 | 55.45 | 49.45 | 264 | 5.93 | 0.40 | 14.4 |
| 4/25/2015 5:11:40 | 55.77 | 49.77 | 35 | 3.33 | 0.40 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 5:11:51 | 56.10 | 50.10 | 38 | 3.18 | 0.40 | 2.1 |
| 4/25/2015 | 5:12:02 | 56.43 | 50.43 | 26 | 3.33 | 0.41 | 1.4 |
| 4/25/2015 | 5:12:13 | 56.76 | 50.76 | 35 | 3.39 | 0.40 | 1.9 |
| 4/25/2015 | 5:12:16 | 56.84 | 50.84 | 34 | 3.99 | 0.40 | 1.9 |

## H323 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 5:05:40

**End Date:**
4/25/2015 5:14:07

**Operator Note:**
'6 5.9 b Auto Complete'

**Northing:**
366,509.61

**Easting:**
250,961.72

**Tide (feet):**
6.00



## Hole: H324 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 5:10:40 | 36.09 | 30.09 | 568 | 1.95 | 0.35 | 31.1 |
| 4/25/2015 5:10:40 | 36.42 | 30.42 | 576 | 1.93 | 0.35 | 31.5 |
| 4/25/2015 5:10:41 | 36.75 | 30.75 | 556 | 1.98 | 0.35 | 30.4 |
| 4/25/2015 5:10:41 | 37.07 | 31.07 | 556 | 1.95 | 0.34 | 30.4 |
| 4/25/2015 5:10:43 | 37.40 | 31.40 | 579 | 1.96 | 0.35 | 31.7 |
| 4/25/2015 5:10:43 | 37.73 | 31.73 | 567 | 1.98 | 0.35 | 31.0 |
| 4/25/2015 5:10:44 | 38.06 | 32.06 | 555 | 1.98 | 0.35 | 30.3 |
| 4/25/2015 5:10:44 | 38.39 | 32.39 | 574 | 1.99 | 0.35 | 31.4 |
| 4/25/2015 5:10:45 | 38.71 | 32.71 | 574 | 1.96 | 0.35 | 31.4 |
| 4/25/2015 5:10:46 | 39.04 | 33.04 | 558 | 1.97 | 0.35 | 30.5 |
| 4/25/2015 5:10:46 | 39.37 | 33.37 | 575 | 1.98 | 0.34 | 31.4 |
| 4/25/2015 5:10:47 | 39.70 | 33.70 | 585 | 1.98 | 0.34 | 32.0 |
| 4/25/2015 5:10:47 | 40.03 | 34.03 | 574 | 2.01 | 0.34 | 31.4 |
| 4/25/2015 5:10:48 | 40.35 | 34.35 | 571 | 1.98 | 0.34 | 31.2 |
| 4/25/2015 5:10:49 | 40.68 | 34.68 | 573 | 1.96 | 0.35 | 31.3 |
| 4/25/2015 5:10:49 | 41.01 | 35.01 | 569 | 1.98 | 0.34 | 31.1 |
| 4/25/2015 5:10:50 | 41.34 | 35.34 | 573 | 1.93 | 0.34 | 31.3 |
| 4/25/2015 5:10:50 | 41.67 | 35.67 | 569 | 1.96 | 0.35 | 31.1 |
| 4/25/2015 5:10:51 | 41.99 | 35.99 | 560 | 1.97 | 0.34 | 30.6 |
| 4/25/2015 5:10:52 | 42.32 | 36.32 | 568 | 1.97 | 0.35 | 31.1 |
| 4/25/2015 5:10:52 | 42.65 | 36.65 | 566 | 1.95 | 0.35 | 30.9 |
| 4/25/2015 5:10:53 | 42.98 | 36.98 | 565 | 1.98 | 0.34 | 30.9 |
| 4/25/2015 5:10:54 | 43.31 | 37.31 | 566 | 1.97 | 0.34 | 30.9 |
| 4/25/2015 5:10:55 | 43.64 | 37.64 | 563 | 1.98 | 0.34 | 30.8 |
| 4/25/2015 5:10:55 | 43.96 | 37.96 | 570 | 1.97 | 0.34 | 31.1 |
| 4/25/2015 5:10:56 | 44.29 | 38.29 | 567 | 1.96 | 0.35 | 31.0 |
| 4/25/2015 5:10:56 | 44.62 | 38.62 | 567 | 1.95 | 0.35 | 31.0 |
| 4/25/2015 5:10:57 | 44.95 | 38.95 | 567 | 1.97 | 0.34 | 31.0 |
| 4/25/2015 5:10:58 | 45.28 | 39.28 | 567 | 1.93 | 0.35 | 31.0 |
| 4/25/2015 5:10:58 | 45.60 | 39.60 | 567 | 1.97 | 0.34 | 31.0 |
| 4/25/2015 5:10:59 | 45.93 | 39.93 | 560 | 1.93 | 0.34 | 30.6 |
| 4/25/2015 5:10:59 | 46.26 | 40.26 | 567 | 1.97 | 0.35 | 31.0 |
| 4/25/2015 5:11:00 | 46.59 | 40.59 | 564 | 1.95 | 0.34 | 30.8 |
| 4/25/2015 5:11:01 | 46.92 | 40.92 | 567 | 1.95 | 0.35 | 31.0 |
| 4/25/2015 5:11:01 | 47.24 | 41.24 | 569 | 1.95 | 0.35 | 31.1 |
| 4/25/2015 5:11:02 | 47.57 | 41.57 | 567 | 1.97 | 0.35 | 31.0 |
| 4/25/2015 5:11:02 | 47.90 | 41.90 | 567 | 1.97 | 0.34 | 31.0 |
| 4/25/2015 5:11:03 | 48.23 | 42.23 | 563 | 1.98 | 0.34 | 30.8 |
| 4/25/2015 5:11:04 | 48.56 | 42.56 | 557 | 1.98 | 0.34 | 30.4 |
| 4/25/2015 5:11:05 | 48.88 | 42.88 | 564 | 1.93 | 0.34 | 30.8 |
| 4/25/2015 5:11:05 | 49.21 | 43.21 | 557 | 1.96 | 0.34 | 30.5 |
| 4/25/2015 5:11:06 | 49.54 | 43.54 | 564 | 1.91 | 0.34 | 30.9 |
| 4/25/2015 5:11:07 | 49.87 | 43.87 | 568 | 1.99 | 0.34 | 31.0 |
| 4/25/2015 5:11:07 | 50.20 | 44.20 | 561 | 1.93 | 0.29 | 30.7 |
| 4/25/2015 5:11:08 | 50.53 | 44.53 | 570 | 1.97 | 0.34 | 31.2 |
| 4/25/2015 5:11:08 | 50.85 | 44.85 | 567 | 1.95 | 0.34 | 31.0 |
| 4/25/2015 5:11:09 | 51.18 | 45.18 | 564 | 1.98 | 0.43 | 30.8 |
| 4/25/2015 5:11:10 | 51.51 | 45.51 | 567 | 1.98 | 0.34 | 31.0 |
| 4/25/2015 5:11:10 | 51.84 | 45.84 | 561 | 1.97 | 0.33 | 30.7 |
| 4/25/2015 5:11:55 | 52.17 | 46.17 | 0 | 1.96 | 1.36 | 0.0 |
| 4/25/2015 5:12:02 | 52.49 | 46.49 | 0 | 2.01 | 1.37 | 0.0 |
| 4/25/2015 5:12:15 | 52.82 | 46.82 | 32 | 1.95 | 1.41 | 1.7 |
| 4/25/2015 5:12:16 | 53.15 | 47.15 | 84 | 1.98 | 1.30 | 4.6 |
| 4/25/2015 5:12:18 | 53.48 | 47.48 | 256 | 2.00 | 1.20 | 14.0 |
| 4/25/2015 5:12:19 | 53.81 | 47.81 | 316 | 1.96 | 1.01 | 17.3 |
| 4/25/2015 5:12:20 | 54.13 | 48.13 | 318 | 1.99 | 1.25 | 17.4 |
| 4/25/2015 5:12:47 | 54.46 | 48.46 | 76 | 2.00 | 1.21 | 4.1 |
| 4/25/2015 5:12:48 | 54.79 | 48.79 | 187 | 1.98 | 1.10 | 10.2 |
| 4/25/2015 5:12:57 | 55.12 | 49.12 | 94 | 1.98 | 1.49 | 5.2 |
| 4/25/2015 5:12:59 | 55.45 | 49.45 | 224 | 1.99 | 1.17 | 12.2 |
| 4/25/2015 5:13:07 | 55.77 | 49.77 | 34 | 1.97 | 1.11 | 1.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 5:13:18 | 56.10 | 50.10 | 32 | 1.98 | 1.10 | 1.8 |
| 4/25/2015 | 5:13:30 | 56.43 | 50.43 | 32 | 2.01 | 1.13 | 1.7 |
| 4/25/2015 | 5:13:32 | 56.51 | 50.51 | 32 | 2.02 | 1.13 | 1.8 |

## H324 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 5:08:31

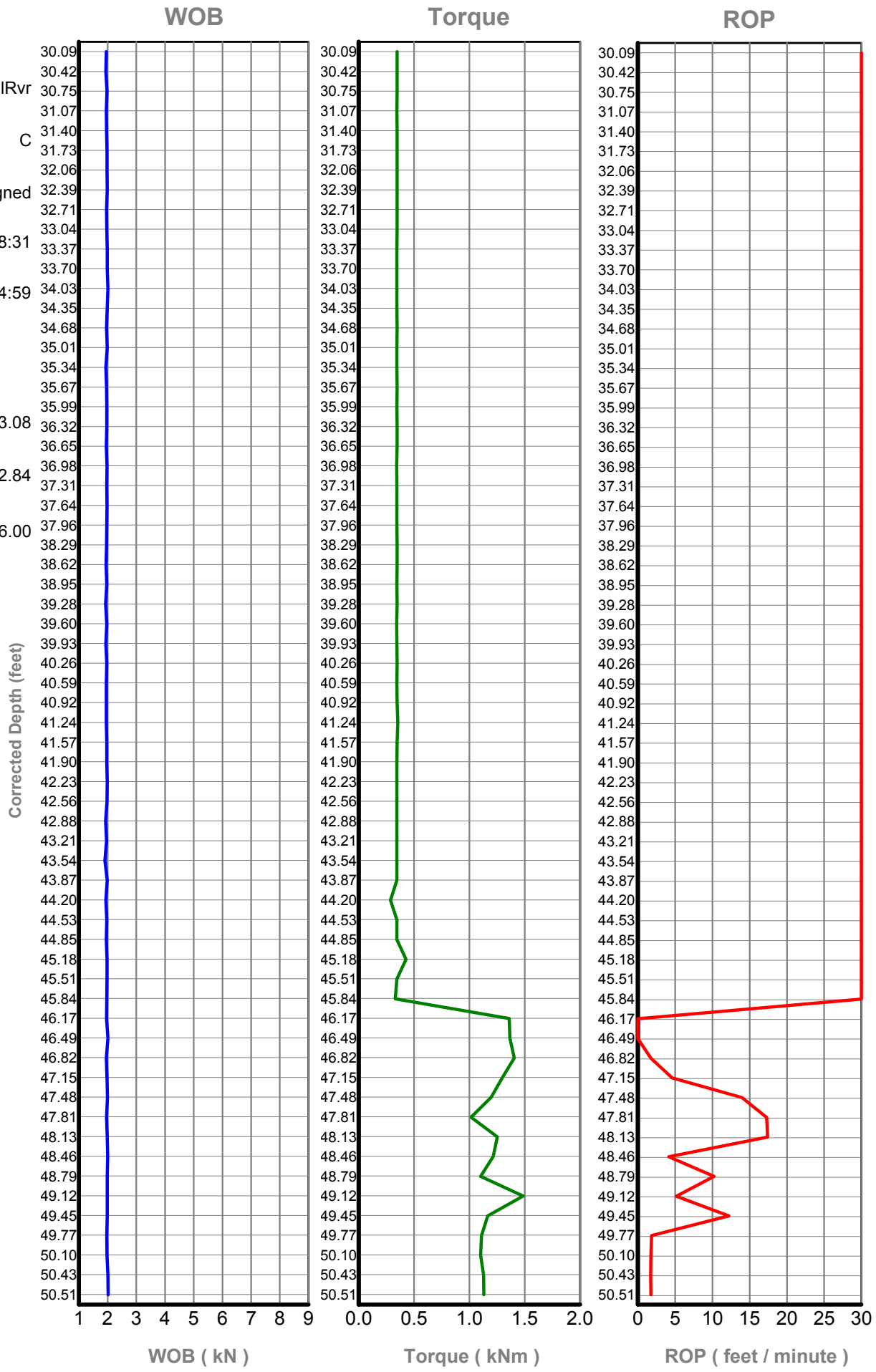
**End Date:**
4/25/2015 5:14:59

**Operator Note:**
'6 6.0 c Auto Complete'

**Northing:**
366,553.08

**Easting:**
251,022.84

**Tide (feet):**
6.00



## Hole: H325 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:28:31 | 30.51 | 30.21 | 888 | 0.22 | 0.32 | 48.6 |
| 4/25/2015 0:28:31 | 30.84 | 30.54 | 872 | 0.21 | 0.32 | 47.7 |
| 4/25/2015 0:28:32 | 31.17 | 30.87 | 869 | 0.21 | 0.32 | 47.5 |
| 4/25/2015 0:28:32 | 31.50 | 31.20 | 869 | 0.21 | 0.32 | 47.5 |
| 4/25/2015 0:28:32 | 31.82 | 31.52 | 869 | 0.21 | 0.32 | 47.5 |
| 4/25/2015 0:28:33 | 32.15 | 31.85 | 883 | 0.22 | 0.32 | 48.3 |
| 4/25/2015 0:28:33 | 32.48 | 32.18 | 884 | 0.21 | 0.32 | 48.3 |
| 4/25/2015 0:28:34 | 32.81 | 32.51 | 884 | 0.21 | 0.32 | 48.3 |
| 4/25/2015 0:28:34 | 33.14 | 32.84 | 892 | 0.21 | 0.32 | 48.8 |
| 4/25/2015 0:28:35 | 33.46 | 33.16 | 913 | 0.21 | 0.32 | 49.9 |
| 4/25/2015 0:28:35 | 33.79 | 33.49 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:36 | 34.12 | 33.82 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:36 | 34.45 | 34.15 | 899 | 0.22 | 0.32 | 49.2 |
| 4/25/2015 0:28:36 | 34.78 | 34.48 | 896 | 0.21 | 0.32 | 49.0 |
| 4/25/2015 0:28:37 | 35.11 | 34.81 | 893 | 0.22 | 0.32 | 48.9 |
| 4/25/2015 0:28:37 | 35.43 | 35.13 | 888 | 0.21 | 0.32 | 48.5 |
| 4/25/2015 0:28:38 | 35.76 | 35.46 | 888 | 0.21 | 0.32 | 48.5 |
| 4/25/2015 0:28:38 | 36.09 | 35.79 | 890 | 0.21 | 0.32 | 48.7 |
| 4/25/2015 0:28:38 | 36.42 | 36.12 | 882 | 0.22 | 0.32 | 48.2 |
| 4/25/2015 0:28:39 | 36.75 | 36.45 | 885 | 0.22 | 0.32 | 48.4 |
| 4/25/2015 0:28:39 | 37.07 | 36.77 | 885 | 0.22 | 0.32 | 48.4 |
| 4/25/2015 0:28:39 | 37.40 | 37.10 | 882 | 0.22 | 0.32 | 48.2 |
| 4/25/2015 0:28:40 | 37.73 | 37.43 | 896 | 0.22 | 0.32 | 49.0 |
| 4/25/2015 0:28:40 | 38.06 | 37.76 | 896 | 0.22 | 0.32 | 49.0 |
| 4/25/2015 0:28:41 | 38.39 | 38.09 | 896 | 0.22 | 0.32 | 49.0 |
| 4/25/2015 0:28:41 | 38.71 | 38.41 | 902 | 0.22 | 0.32 | 49.3 |
| 4/25/2015 0:28:41 | 39.04 | 38.74 | 895 | 0.22 | 0.32 | 48.9 |
| 4/25/2015 0:28:42 | 39.37 | 39.07 | 909 | 0.22 | 0.32 | 49.7 |
| 4/25/2015 0:28:42 | 39.70 | 39.40 | 909 | 0.22 | 0.32 | 49.7 |
| 4/25/2015 0:28:42 | 40.03 | 39.73 | 901 | 0.18 | 0.32 | 49.3 |
| 4/25/2015 0:28:43 | 40.35 | 40.05 | 903 | 0.22 | 0.32 | 49.4 |
| 4/25/2015 0:28:43 | 40.68 | 40.38 | 892 | 0.24 | 0.32 | 48.8 |
| 4/25/2015 0:28:44 | 41.01 | 40.71 | 910 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:28:45 | 41.34 | 41.04 | 910 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:28:45 | 41.67 | 41.37 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:45 | 41.99 | 41.69 | 904 | 0.21 | 0.32 | 49.4 |
| 4/25/2015 0:28:46 | 42.32 | 42.02 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:46 | 42.65 | 42.35 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:46 | 42.98 | 42.68 | 905 | 0.21 | 0.32 | 49.5 |
| 4/25/2015 0:28:47 | 43.31 | 43.01 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:28:47 | 43.64 | 43.34 | 896 | 0.21 | 0.32 | 49.0 |
| 4/25/2015 0:28:48 | 43.96 | 43.66 | 896 | 0.21 | 0.32 | 49.0 |
| 4/25/2015 0:28:48 | 44.29 | 43.99 | 891 | 0.21 | 0.32 | 48.7 |
| 4/25/2015 0:28:48 | 44.62 | 44.32 | 902 | 0.20 | 0.32 | 49.3 |
| 4/25/2015 0:28:49 | 44.95 | 44.65 | 896 | 0.21 | 0.32 | 49.0 |
| 4/25/2015 0:28:49 | 45.28 | 44.98 | 893 | 0.22 | 0.32 | 48.8 |
| 4/25/2015 0:28:50 | 45.60 | 45.30 | 893 | 0.22 | 0.32 | 48.8 |
| 4/25/2015 0:29:27 | 45.93 | 45.63 | 0 | 2.16 | 0.33 | 0.0 |
| 4/25/2015 0:30:03 | 46.26 | 45.96 | 0 | 2.16 | 0.33 | 0.0 |
| 4/25/2015 0:30:17 | 46.59 | 46.29 | 0 | 5.31 | 0.36 | 0.0 |
| 4/25/2015 0:30:23 | 46.92 | 46.62 | 0 | 5.15 | 0.34 | 0.0 |
| 4/25/2015 0:30:26 | 47.24 | 46.94 | 86 | 4.77 | 0.37 | 4.7 |
| 4/25/2015 0:30:29 | 47.57 | 47.27 | 123 | 3.60 | 0.37 | 6.7 |
| 4/25/2015 0:30:31 | 47.90 | 47.60 | 194 | 3.12 | 0.35 | 10.6 |
| 4/25/2015 0:30:31 | 48.23 | 47.93 | 277 | 2.64 | 0.35 | 15.1 |
| 4/25/2015 0:30:32 | 48.56 | 48.26 | 318 | 4.56 | 0.37 | 17.4 |
| 4/25/2015 0:30:35 | 48.88 | 48.58 | 115 | 4.11 | 0.38 | 6.3 |
| 4/25/2015 0:30:38 | 49.21 | 48.91 | 102 | 5.12 | 0.39 | 5.6 |
| 4/25/2015 0:30:42 | 49.54 | 49.24 | 67 | 4.55 | 0.35 | 3.6 |
| 4/25/2015 0:30:42 | 49.87 | 49.57 | 167 | 2.63 | 0.34 | 9.1 |
| 4/25/2015 0:30:43 | 50.20 | 49.90 | 332 | 3.43 | 0.37 | 18.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 0:30:45 | 50.53 | 50.23 | 420 | 4.26 | 0.40 | 23.0 |
| 4/25/2015 | 0:30:47 | 50.85 | 50.55 | 176 | 4.91 | 0.38 | 9.7 |
| 4/25/2015 | 0:30:51 | 51.18 | 50.88 | 75 | 5.18 | 0.37 | 4.1 |
| 4/25/2015 | 0:30:52 | 51.51 | 51.21 | 120 | 7.16 | 0.39 | 6.6 |
| 4/25/2015 | 0:30:56 | 51.84 | 51.54 | 95 | 4.20 | 0.38 | 5.2 |
| 4/25/2015 | 0:30:57 | 52.17 | 51.87 | 153 | 4.34 | 0.38 | 8.4 |
| 4/25/2015 | 0:31:00 | 52.49 | 52.19 | 179 | 2.56 | 0.38 | 9.8 |
| 4/25/2015 | 0:31:18 | 52.82 | 52.52 | 35 | 3.62 | 0.39 | 1.9 |
| 4/25/2015 | 0:31:26 | 53.15 | 52.85 | 46 | 3.39 | 0.39 | 2.5 |
| 4/25/2015 | 0:31:33 | 53.48 | 53.18 | 54 | 3.55 | 0.39 | 2.9 |
| 4/25/2015 | 0:31:42 | 53.81 | 53.51 | 38 | 3.37 | 0.40 | 2.1 |
| 4/25/2015 | 0:31:44 | 53.91 | 53.61 | 40 | 3.39 | 0.39 | 2.2 |

## H325 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:25:39

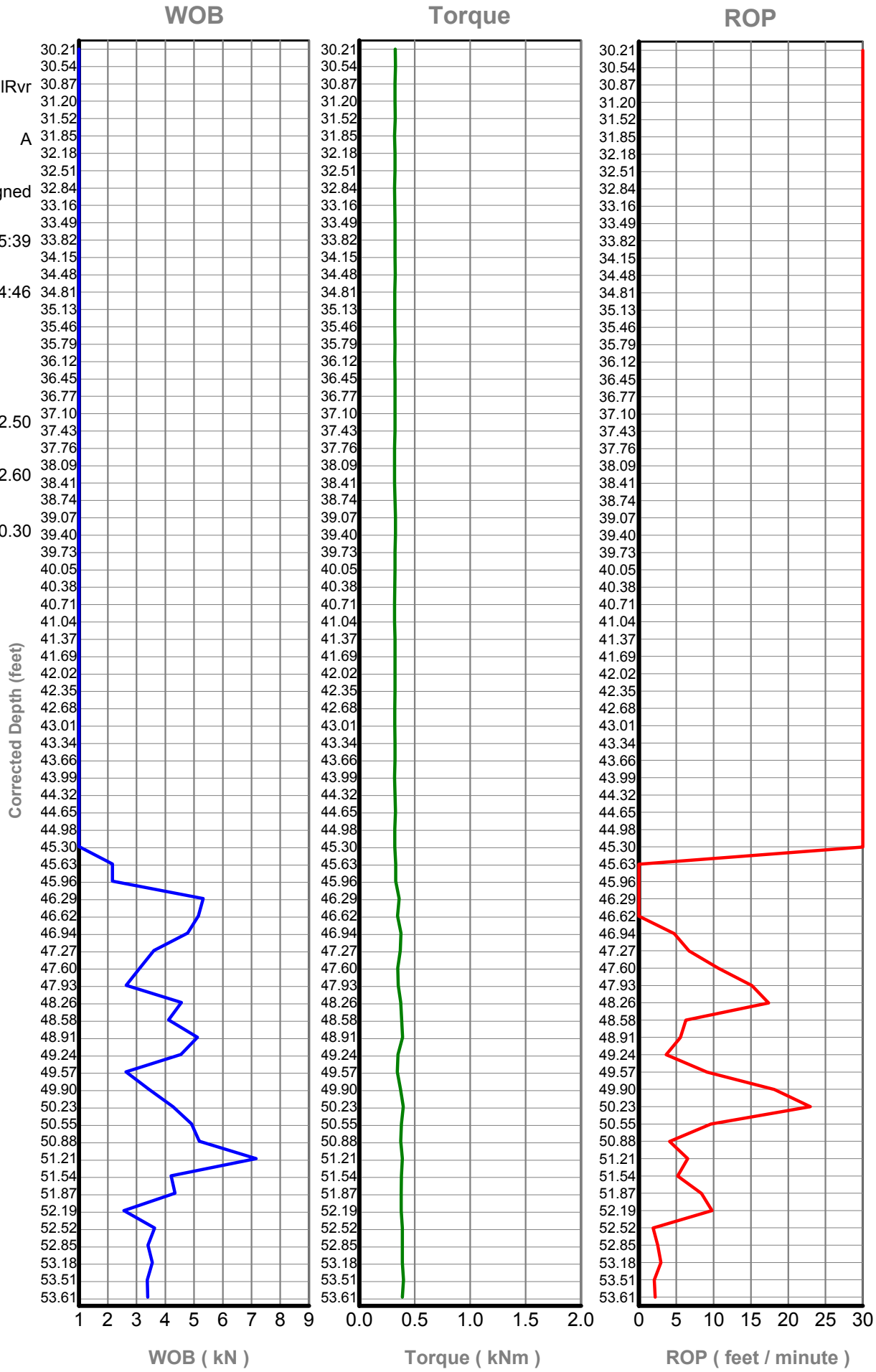
**End Date:**
4/25/2015 0:34:46

**Operator Note:**
'0.3 .3 b Auto Complete'

**Northing:**
366,602.50

**Easting:**
251,082.60

**Tide (feet):**
0.30



## Hole: H326 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:15:31 | 30.51 | 30.11 | 806 | 0.97 | 0.33 | 44.1 |
| 4/25/2015 0:15:32 | 30.84 | 30.44 | 802 | 0.98 | 0.33 | 43.8 |
| 4/25/2015 0:15:32 | 31.17 | 30.77 | 801 | 0.98 | 0.33 | 43.8 |
| 4/25/2015 0:15:33 | 31.50 | 31.10 | 801 | 0.98 | 0.33 | 43.8 |
| 4/25/2015 0:15:33 | 31.82 | 31.42 | 798 | 0.96 | 0.33 | 43.6 |
| 4/25/2015 0:15:33 | 32.15 | 31.75 | 798 | 0.98 | 0.34 | 43.6 |
| 4/25/2015 0:15:34 | 32.48 | 32.08 | 806 | 0.94 | 0.33 | 44.1 |
| 4/25/2015 0:15:34 | 32.81 | 32.41 | 809 | 0.98 | 0.33 | 44.3 |
| 4/25/2015 0:15:35 | 33.14 | 32.74 | 812 | 0.98 | 0.33 | 44.4 |
| 4/25/2015 0:15:36 | 33.46 | 33.06 | 812 | 0.98 | 0.33 | 44.4 |
| 4/25/2015 0:15:36 | 33.79 | 33.39 | 809 | 0.98 | 0.33 | 44.3 |
| 4/25/2015 0:15:36 | 34.12 | 33.72 | 804 | 0.98 | 0.33 | 44.0 |
| 4/25/2015 0:15:37 | 34.45 | 34.05 | 812 | 0.98 | 0.33 | 44.4 |
| 4/25/2015 0:15:50 | 34.78 | 34.38 | 37 | 0.98 | 0.34 | 2.0 |
| 4/25/2015 0:15:50 | 35.11 | 34.71 | 37 | 0.98 | 0.34 | 2.0 |
| 4/25/2015 0:15:50 | 35.43 | 35.03 | 196 | 0.24 | 0.33 | 10.7 |
| 4/25/2015 0:15:51 | 35.76 | 35.36 | 353 | 0.24 | 0.33 | 19.3 |
| 4/25/2015 0:15:51 | 36.09 | 35.69 | 518 | 0.23 | 0.33 | 28.3 |
| 4/25/2015 0:15:52 | 36.42 | 36.02 | 681 | 0.23 | 0.33 | 37.2 |
| 4/25/2015 0:15:52 | 36.75 | 36.35 | 811 | 0.24 | 0.33 | 44.4 |
| 4/25/2015 0:15:53 | 37.07 | 36.67 | 811 | 0.24 | 0.33 | 44.4 |
| 4/25/2015 0:15:53 | 37.40 | 37.00 | 818 | 0.24 | 0.33 | 44.7 |
| 4/25/2015 0:15:53 | 37.73 | 37.33 | 827 | 0.23 | 0.34 | 45.2 |
| 4/25/2015 0:15:54 | 38.06 | 37.66 | 833 | 0.23 | 0.32 | 45.5 |
| 4/25/2015 0:15:54 | 38.39 | 37.99 | 838 | 0.23 | 0.33 | 45.8 |
| 4/25/2015 0:15:55 | 38.71 | 38.31 | 839 | 0.23 | 0.32 | 45.9 |
| 4/25/2015 0:15:55 | 39.04 | 38.64 | 839 | 0.23 | 0.32 | 45.9 |
| 4/25/2015 0:15:55 | 39.37 | 38.97 | 847 | 0.23 | 0.32 | 46.3 |
| 4/25/2015 0:15:56 | 39.70 | 39.30 | 850 | 0.23 | 0.32 | 46.5 |
| 4/25/2015 0:15:57 | 40.03 | 39.63 | 853 | 0.23 | 0.32 | 46.6 |
| 4/25/2015 0:15:57 | 40.35 | 39.95 | 850 | 0.23 | 0.33 | 46.5 |
| 4/25/2015 0:15:58 | 40.68 | 40.28 | 850 | 0.23 | 0.33 | 46.5 |
| 4/25/2015 0:15:58 | 41.01 | 40.61 | 850 | 0.23 | 0.32 | 46.5 |
| 4/25/2015 0:15:58 | 41.34 | 40.94 | 847 | 0.22 | 0.32 | 46.3 |
| 4/25/2015 0:15:59 | 41.67 | 41.27 | 847 | 0.23 | 0.33 | 46.3 |
| 4/25/2015 0:15:59 | 41.99 | 41.59 | 842 | 0.23 | 0.33 | 46.0 |
| 4/25/2015 0:16:00 | 42.32 | 41.92 | 842 | 0.23 | 0.33 | 46.0 |
| 4/25/2015 0:16:00 | 42.65 | 42.25 | 853 | 0.25 | 0.32 | 46.6 |
| 4/25/2015 0:16:00 | 42.98 | 42.58 | 850 | 0.23 | 0.32 | 46.5 |
| 4/25/2015 0:16:01 | 43.31 | 42.91 | 853 | 0.23 | 0.33 | 46.6 |
| 4/25/2015 0:16:01 | 43.64 | 43.24 | 853 | 0.22 | 0.33 | 46.6 |
| 4/25/2015 0:16:02 | 43.96 | 43.56 | 853 | 0.22 | 0.33 | 46.6 |
| 4/25/2015 0:16:02 | 44.29 | 43.89 | 853 | 0.22 | 0.32 | 46.6 |
| 4/25/2015 0:16:02 | 44.62 | 44.22 | 850 | 0.22 | 0.32 | 46.5 |
| 4/25/2015 0:16:03 | 44.95 | 44.55 | 853 | 0.23 | 0.32 | 46.6 |
| 4/25/2015 0:16:03 | 45.28 | 44.88 | 845 | 0.24 | 0.33 | 46.2 |
| 4/25/2015 0:16:04 | 45.60 | 45.20 | 845 | 0.24 | 0.33 | 46.2 |
| 4/25/2015 0:16:04 | 45.93 | 45.53 | 847 | 0.22 | 0.33 | 46.3 |
| 4/25/2015 0:17:07 | 46.26 | 45.86 | 0 | 5.10 | 0.38 | 0.0 |
| 4/25/2015 0:17:11 | 46.59 | 46.19 | 38 | 4.82 | 0.38 | 2.1 |
| 4/25/2015 0:17:13 | 46.92 | 46.52 | 105 | 3.84 | 0.38 | 5.7 |
| 4/25/2015 0:17:15 | 47.24 | 46.84 | 237 | 5.43 | 0.38 | 13.0 |
| 4/25/2015 0:17:17 | 47.57 | 47.17 | 113 | 5.07 | 0.38 | 6.2 |
| 4/25/2015 0:17:20 | 47.90 | 47.50 | 220 | 4.21 | 0.38 | 12.0 |
| 4/25/2015 0:17:21 | 48.23 | 47.83 | 240 | 3.45 | 0.36 | 13.1 |
| 4/25/2015 0:17:22 | 48.56 | 48.16 | 292 | 3.81 | 0.37 | 16.0 |
| 4/25/2015 0:17:23 | 48.88 | 48.48 | 347 | 2.82 | 0.36 | 19.0 |
| 4/25/2015 0:17:47 | 49.21 | 48.81 | 26 | 3.81 | 0.37 | 1.4 |
| 4/25/2015 0:17:48 | 49.54 | 49.14 | 156 | 4.39 | 0.37 | 8.5 |
| 4/25/2015 0:18:00 | 49.87 | 49.47 | 0 | 4.66 | 0.38 | 0.0 |
| 4/25/2015 0:18:04 | 50.20 | 49.80 | 78 | 5.56 | 0.40 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 0:18:08 | 50.53 | 50.13 | 39 | 6.12 | 0.40 | 2.2 |
| 4/25/2015 | 0:18:15 | 50.85 | 50.45 | 55 | 5.43 | 0.37 | 3.0 |
| 4/25/2015 | 0:18:18 | 51.18 | 50.78 | 59 | 4.09 | 0.37 | 3.3 |
| 4/25/2015 | 0:18:19 | 51.51 | 51.11 | 159 | 5.34 | 0.37 | 8.7 |
| 4/25/2015 | 0:18:24 | 51.84 | 51.44 | 88 | 3.88 | 0.37 | 4.8 |
| 4/25/2015 | 0:18:25 | 52.17 | 51.77 | 222 | 3.49 | 0.36 | 12.1 |
| 4/25/2015 | 0:18:26 | 52.49 | 52.09 | 282 | 3.22 | 0.36 | 15.4 |
| 4/25/2015 | 0:18:27 | 52.82 | 52.42 | 377 | 2.86 | 0.37 | 20.6 |
| 4/25/2015 | 0:18:27 | 53.15 | 52.75 | 377 | 3.00 | 0.36 | 20.6 |
| 4/25/2015 | 0:18:28 | 53.48 | 53.08 | 399 | 3.29 | 0.37 | 21.8 |
| 4/25/2015 | 0:18:30 | 53.81 | 53.41 | 261 | 3.74 | 0.39 | 14.3 |
| 4/25/2015 | 0:18:34 | 54.13 | 53.73 | 103 | 4.55 | 0.39 | 5.6 |
| 4/25/2015 | 0:18:37 | 54.46 | 54.06 | 140 | 4.31 | 0.38 | 7.7 |
| 4/25/2015 | 0:18:45 | 54.79 | 54.39 | 61 | 4.17 | 0.40 | 3.3 |
| 4/25/2015 | 0:18:50 | 55.12 | 54.72 | 66 | 3.80 | 0.40 | 3.6 |
| 4/25/2015 | 0:18:58 | 55.45 | 55.05 | 46 | 3.63 | 0.42 | 2.5 |
| 4/25/2015 | 0:18:59 | 55.52 | 55.12 | 46 | 5.38 | 0.39 | 2.5 |

## H326 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:12:18

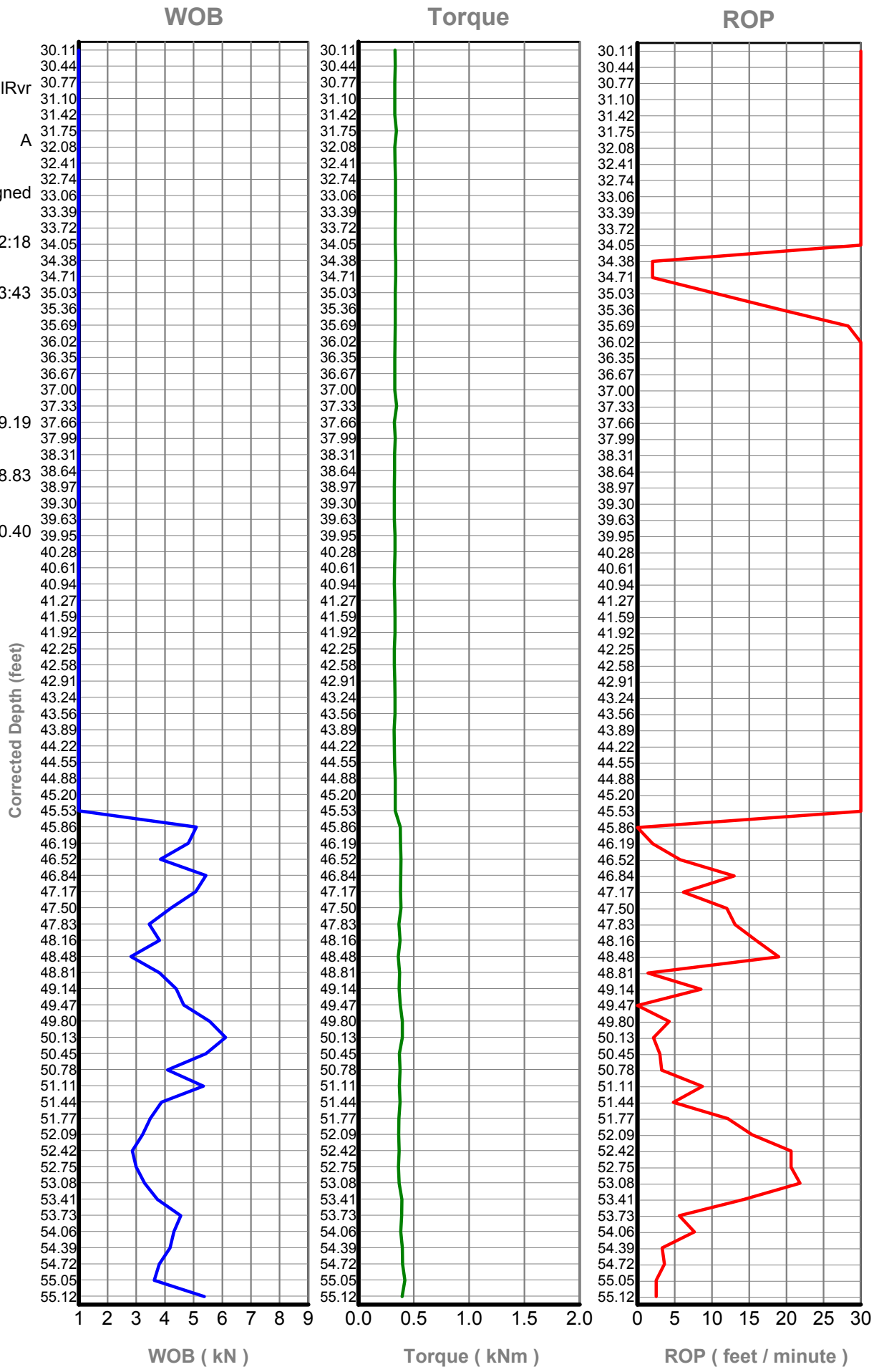
**End Date:**
4/25/2015 0:23:43

**Operator Note:**
'0.4 .5 b Auto Complete'

**Northing:**
366,639.19

**Easting:**
251,128.83

**Tide (feet):**
0.40



## Hole: H327 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:18:27 | 30.51 | 30.11 | 616 | 1.97 | 0.16 | 33.7 |
| 4/25/2015 0:18:27 | 30.84 | 30.44 | 616 | 1.98 | 0.16 | 33.7 |
| 4/25/2015 0:18:28 | 31.17 | 30.77 | 622 | 2.00 | 0.15 | 34.0 |
| 4/25/2015 0:18:28 | 31.50 | 31.10 | 619 | 1.98 | 0.16 | 33.8 |
| 4/25/2015 0:18:29 | 31.82 | 31.42 | 616 | 1.98 | 0.16 | 33.7 |
| 4/25/2015 0:18:29 | 32.15 | 31.75 | 610 | 1.97 | 0.16 | 33.3 |
| 4/25/2015 0:18:30 | 32.48 | 32.08 | 620 | 1.98 | 0.16 | 33.9 |
| 4/25/2015 0:18:30 | 32.81 | 32.41 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:18:31 | 33.14 | 32.74 | 616 | 1.98 | 0.16 | 33.7 |
| 4/25/2015 0:18:32 | 33.46 | 33.06 | 616 | 1.98 | 0.16 | 33.7 |
| 4/25/2015 0:18:32 | 33.79 | 33.39 | 613 | 1.99 | 0.16 | 33.5 |
| 4/25/2015 0:18:33 | 34.12 | 33.72 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:18:34 | 34.45 | 34.05 | 613 | 1.97 | 0.16 | 33.5 |
| 4/25/2015 0:18:34 | 34.78 | 34.38 | 609 | 1.98 | 0.16 | 33.3 |
| 4/25/2015 0:18:35 | 35.11 | 34.71 | 609 | 1.98 | 0.16 | 33.3 |
| 4/25/2015 0:18:35 | 35.43 | 35.03 | 608 | 1.98 | 0.16 | 33.2 |
| 4/25/2015 0:18:36 | 35.76 | 35.36 | 608 | 1.97 | 0.16 | 33.2 |
| 4/25/2015 0:18:36 | 36.09 | 35.69 | 611 | 1.97 | 0.16 | 33.4 |
| 4/25/2015 0:18:37 | 36.42 | 36.02 | 615 | 1.97 | 0.16 | 33.7 |
| 4/25/2015 0:18:38 | 36.75 | 36.35 | 613 | 1.95 | 0.16 | 33.5 |
| 4/25/2015 0:18:38 | 37.07 | 36.67 | 619 | 1.98 | 0.16 | 33.9 |
| 4/25/2015 0:18:39 | 37.40 | 37.00 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:18:39 | 37.73 | 37.33 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:18:40 | 38.06 | 37.66 | 609 | 1.96 | 0.16 | 33.3 |
| 4/25/2015 0:18:40 | 38.39 | 37.99 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:18:41 | 38.71 | 38.31 | 606 | 1.98 | 0.16 | 33.2 |
| 4/25/2015 0:18:42 | 39.04 | 38.64 | 610 | 1.98 | 0.16 | 33.4 |
| 4/25/2015 0:18:42 | 39.37 | 38.97 | 616 | 1.95 | 0.16 | 33.7 |
| 4/25/2015 0:18:43 | 39.70 | 39.30 | 610 | 1.97 | 0.16 | 33.4 |
| 4/25/2015 0:18:44 | 40.03 | 39.63 | 610 | 1.98 | 0.16 | 33.4 |
| 4/25/2015 0:18:44 | 40.35 | 39.95 | 606 | 1.98 | 0.16 | 33.2 |
| 4/25/2015 0:18:45 | 40.68 | 40.28 | 613 | 1.99 | 0.16 | 33.5 |
| 4/25/2015 0:18:45 | 41.01 | 40.61 | 610 | 1.98 | 0.16 | 33.4 |
| 4/25/2015 0:18:46 | 41.34 | 40.94 | 610 | 1.98 | 0.16 | 33.4 |
| 4/25/2015 0:18:47 | 41.67 | 41.27 | 600 | 1.98 | 0.16 | 32.8 |
| 4/25/2015 0:18:47 | 41.99 | 41.59 | 600 | 1.97 | 0.16 | 32.8 |
| 4/25/2015 0:18:48 | 42.32 | 41.92 | 605 | 1.98 | 0.16 | 33.1 |
| 4/25/2015 0:18:48 | 42.65 | 42.25 | 586 | 1.98 | 0.16 | 32.0 |
| 4/25/2015 0:18:49 | 42.98 | 42.58 | 586 | 1.98 | 0.16 | 32.0 |
| 4/25/2015 0:18:49 | 43.31 | 42.91 | 594 | 1.95 | 0.16 | 32.5 |
| 4/25/2015 0:18:50 | 43.64 | 43.24 | 584 | 1.99 | 0.16 | 31.9 |
| 4/25/2015 0:18:59 | 43.96 | 43.56 | 0 | 1.99 | 0.16 | 0.0 |
| 4/25/2015 0:18:59 | 44.29 | 43.89 | 124 | 1.99 | 0.16 | 6.8 |
| 4/25/2015 0:19:00 | 44.62 | 44.22 | 247 | 1.98 | 0.16 | 13.5 |
| 4/25/2015 0:19:01 | 44.95 | 44.55 | 486 | 2.00 | 0.16 | 26.6 |
| 4/25/2015 0:19:01 | 45.28 | 44.88 | 604 | 1.98 | 0.16 | 33.0 |
| 4/25/2015 0:19:05 | 45.60 | 45.20 | 148 | 1.44 | 0.16 | 8.1 |
| 4/25/2015 0:19:29 | 45.93 | 45.53 | 10 | 2.02 | 1.50 | 0.5 |
| 4/25/2015 0:19:30 | 46.26 | 45.86 | 120 | 1.97 | 1.45 | 6.6 |
| 4/25/2015 0:19:31 | 46.59 | 46.19 | 237 | 1.99 | 1.31 | 13.0 |
| 4/25/2015 0:19:42 | 46.92 | 46.52 | 78 | 1.98 | 1.33 | 4.2 |
| 4/25/2015 0:19:43 | 47.24 | 46.84 | 154 | 1.97 | 1.18 | 8.4 |
| 4/25/2015 0:20:11 | 47.57 | 47.17 | 11 | 1.98 | 1.13 | 0.6 |
| 4/25/2015 0:20:12 | 47.90 | 47.50 | 68 | 1.99 | 1.21 | 3.7 |
| 4/25/2015 0:20:12 | 48.23 | 47.83 | 143 | 1.94 | 1.07 | 7.8 |
| 4/25/2015 0:20:13 | 48.56 | 48.16 | 313 | 1.96 | 1.12 | 17.1 |
| 4/25/2015 0:20:14 | 48.88 | 48.48 | 372 | 1.98 | 1.17 | 20.3 |
| 4/25/2015 0:20:57 | 49.21 | 48.81 | 71 | 1.99 | 1.21 | 3.9 |
| 4/25/2015 0:20:58 | 49.54 | 49.14 | 187 | 1.99 | 1.28 | 10.2 |
| 4/25/2015 0:21:00 | 49.87 | 49.47 | 287 | 1.99 | 1.14 | 15.7 |
| 4/25/2015 0:21:01 | 50.20 | 49.80 | 315 | 2.00 | 1.15 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 0:21:02 | 50.53 | 50.13 | 321 | 2.00 | 1.12 | 17.6 |
| 4/25/2015 | 0:21:12 | 50.85 | 50.45 | 14 | 1.98 | 1.26 | 0.8 |
| 4/25/2015 | 0:21:14 | 51.18 | 50.78 | 156 | 2.00 | 1.15 | 8.5 |
| 4/25/2015 | 0:21:15 | 51.51 | 51.11 | 262 | 2.00 | 1.12 | 14.3 |
| 4/25/2015 | 0:21:16 | 51.84 | 51.44 | 303 | 2.00 | 1.11 | 16.6 |
| 4/25/2015 | 0:21:17 | 52.17 | 51.77 | 321 | 2.01 | 1.12 | 17.5 |
| 4/25/2015 | 0:21:18 | 52.49 | 52.09 | 295 | 2.01 | 1.28 | 16.1 |
| 4/25/2015 | 0:21:20 | 52.82 | 52.42 | 295 | 2.00 | 1.28 | 16.1 |
| 4/25/2015 | 0:21:23 | 53.15 | 52.75 | 110 | 2.02 | 1.20 | 6.0 |
| 4/25/2015 | 0:21:32 | 53.48 | 53.08 | 38 | 2.01 | 1.07 | 2.1 |
| 4/25/2015 | 0:21:44 | 53.81 | 53.41 | 32 | 2.00 | 1.15 | 1.7 |
| 4/25/2015 | 0:21:46 | 53.89 | 53.49 | 32 | 2.01 | 1.22 | 1.7 |

## H327 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:15:38

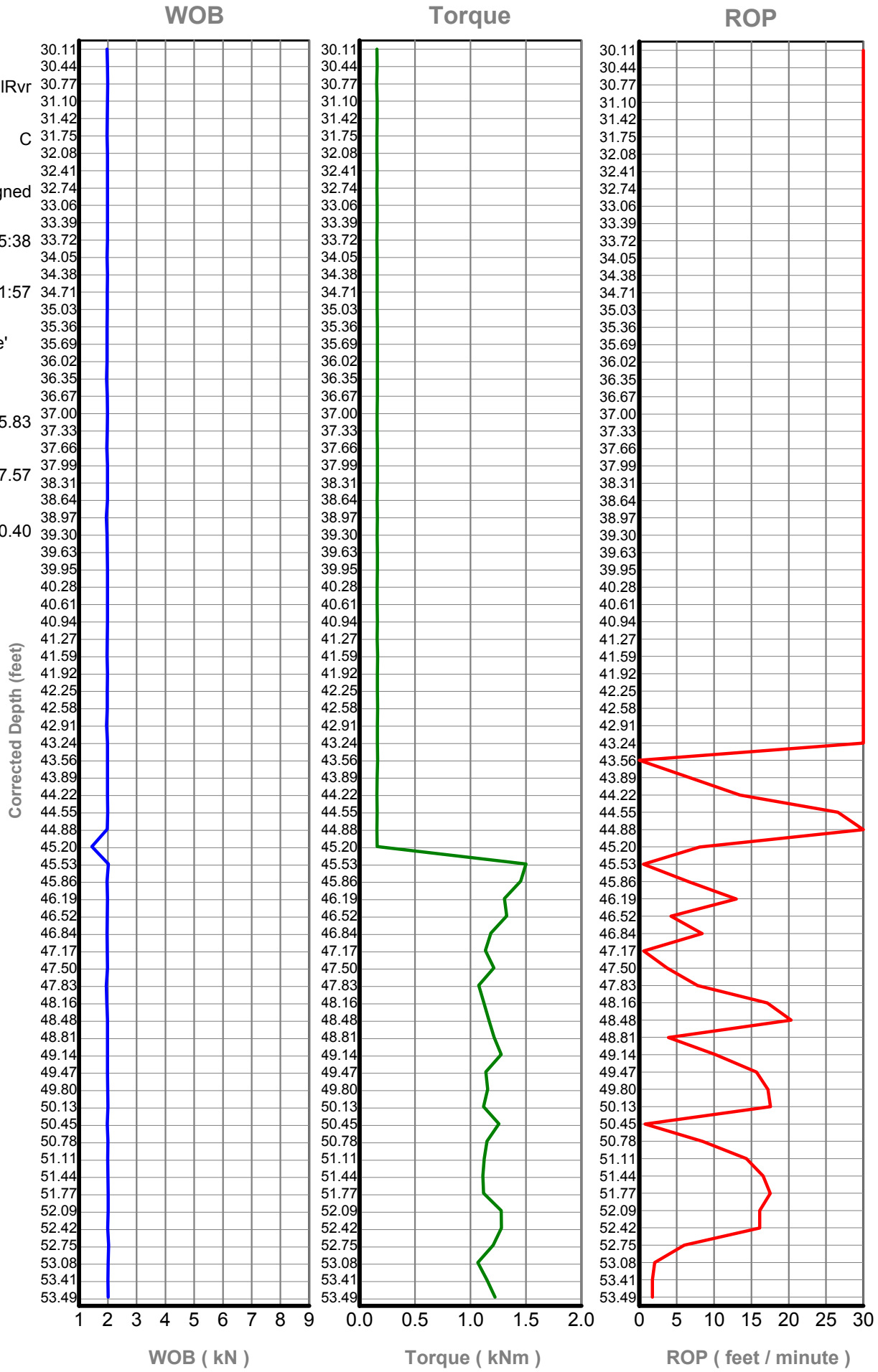
**End Date:**
4/25/2015 0:31:57

**Operator Note:**
'0.4 .48 c Auto Complete'

**Northing:**
366,685.83

**Easting:**
251,187.57

**Tide (feet):**
0.40



## Hole: H328 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 7:52:46 | 33.79 | 30.09 | 695 | 0.48 | 0.35 | 38.0 |
| 4/24/2015 7:52:47 | 34.12 | 30.42 | 701 | 0.48 | 0.35 | 38.3 |
| 4/24/2015 7:52:47 | 34.45 | 30.75 | 701 | 0.48 | 0.35 | 38.3 |
| 4/24/2015 7:52:48 | 34.78 | 31.08 | 688 | 0.48 | 0.35 | 37.6 |
| 4/24/2015 7:52:48 | 35.11 | 31.41 | 685 | 0.48 | 0.35 | 37.5 |
| 4/24/2015 7:52:49 | 35.43 | 31.73 | 685 | 0.49 | 0.35 | 37.5 |
| 4/24/2015 7:52:49 | 35.76 | 32.06 | 718 | 0.49 | 0.35 | 39.3 |
| 4/24/2015 7:52:50 | 36.09 | 32.39 | 692 | 0.54 | 0.35 | 37.9 |
| 4/24/2015 7:52:51 | 36.42 | 32.72 | 679 | 0.51 | 0.37 | 37.1 |
| 4/24/2015 7:52:51 | 36.75 | 33.05 | 679 | 0.48 | 0.35 | 37.1 |
| 4/24/2015 7:52:52 | 37.07 | 33.37 | 690 | 0.48 | 0.35 | 37.7 |
| 4/24/2015 7:52:52 | 37.40 | 33.70 | 669 | 0.48 | 0.35 | 36.6 |
| 4/24/2015 7:52:53 | 37.73 | 34.03 | 654 | 0.48 | 0.34 | 35.8 |
| 4/24/2015 7:52:53 | 38.06 | 34.36 | 682 | 0.48 | 0.35 | 37.3 |
| 4/24/2015 7:52:54 | 38.39 | 34.69 | 682 | 0.48 | 0.35 | 37.3 |
| 4/24/2015 7:52:54 | 38.71 | 35.01 | 703 | 0.48 | 0.35 | 38.5 |
| 4/24/2015 7:52:55 | 39.04 | 35.34 | 699 | 0.48 | 0.35 | 38.2 |
| 4/24/2015 7:52:55 | 39.37 | 35.67 | 719 | 0.48 | 0.35 | 39.3 |
| 4/24/2015 7:52:56 | 39.70 | 36.00 | 719 | 0.48 | 0.35 | 39.3 |
| 4/24/2015 7:52:56 | 40.03 | 36.33 | 714 | 0.50 | 0.35 | 39.0 |
| 4/24/2015 7:52:56 | 40.35 | 36.65 | 701 | 0.48 | 0.35 | 38.3 |
| 4/24/2015 7:52:57 | 40.68 | 36.98 | 701 | 0.50 | 0.35 | 38.3 |
| 4/24/2015 7:52:57 | 41.01 | 37.31 | 700 | 0.48 | 0.35 | 38.3 |
| 4/24/2015 7:52:58 | 41.34 | 37.64 | 685 | 0.48 | 0.35 | 37.4 |
| 4/24/2015 7:52:58 | 41.67 | 37.97 | 685 | 0.48 | 0.35 | 37.4 |
| 4/24/2015 7:52:59 | 41.99 | 38.29 | 689 | 0.48 | 0.35 | 37.7 |
| 4/24/2015 7:52:59 | 42.32 | 38.62 | 700 | 0.48 | 0.35 | 38.3 |
| 4/24/2015 7:53:00 | 42.65 | 38.95 | 706 | 0.49 | 0.35 | 38.6 |
| 4/24/2015 7:53:00 | 42.98 | 39.28 | 692 | 0.48 | 0.35 | 37.9 |
| 4/24/2015 7:53:01 | 43.31 | 39.61 | 712 | 0.49 | 0.35 | 38.9 |
| 4/24/2015 7:53:02 | 43.64 | 39.94 | 684 | 0.49 | 0.35 | 37.4 |
| 4/24/2015 7:53:02 | 43.96 | 40.26 | 684 | 0.48 | 0.35 | 37.4 |
| 4/24/2015 7:53:03 | 44.29 | 40.59 | 693 | 0.49 | 0.35 | 37.9 |
| 4/24/2015 7:53:03 | 44.62 | 40.92 | 699 | 0.48 | 0.35 | 38.2 |
| 4/24/2015 7:53:04 | 44.95 | 41.25 | 692 | 0.49 | 0.35 | 37.8 |
| 4/24/2015 7:53:04 | 45.28 | 41.58 | 692 | 0.48 | 0.35 | 37.8 |
| 4/24/2015 7:53:05 | 45.60 | 41.90 | 693 | 0.48 | 0.35 | 37.9 |
| 4/24/2015 7:53:05 | 45.93 | 42.23 | 703 | 0.48 | 0.35 | 38.4 |
| 4/24/2015 7:53:06 | 46.26 | 42.56 | 678 | 0.48 | 0.35 | 37.1 |
| 4/24/2015 7:53:06 | 46.59 | 42.89 | 678 | 0.51 | 0.35 | 37.1 |
| 4/24/2015 7:53:07 | 46.92 | 43.22 | 671 | 0.48 | 0.35 | 36.7 |
| 4/24/2015 7:53:07 | 47.24 | 43.54 | 671 | 0.49 | 0.35 | 36.7 |
| 4/24/2015 7:53:08 | 47.57 | 43.87 | 690 | 0.48 | 0.35 | 37.7 |
| 4/24/2015 7:53:08 | 47.90 | 44.20 | 662 | 0.49 | 0.35 | 36.2 |
| 4/24/2015 7:53:09 | 48.23 | 44.53 | 662 | 0.48 | 0.35 | 36.2 |
| 4/24/2015 7:53:09 | 48.56 | 44.86 | 689 | 0.49 | 0.35 | 37.7 |
| 4/24/2015 7:53:10 | 48.88 | 45.18 | 682 | 0.50 | 0.35 | 37.3 |
| 4/24/2015 7:53:10 | 49.21 | 45.51 | 682 | 0.48 | 0.35 | 37.3 |
| 4/24/2015 7:53:11 | 49.54 | 45.84 | 681 | 0.48 | 0.36 | 37.3 |
| 4/24/2015 7:53:26 | 49.87 | 46.17 | 61 | 3.75 | 0.35 | 3.4 |
| 4/24/2015 7:53:27 | 50.20 | 46.50 | 207 | 4.48 | 0.36 | 11.3 |
| 4/24/2015 7:53:27 | 50.53 | 46.83 | 325 | 5.44 | 0.38 | 17.8 |
| 4/24/2015 7:53:29 | 50.85 | 47.15 | 419 | 5.38 | 0.40 | 22.9 |
| 4/24/2015 7:53:31 | 51.18 | 47.48 | 142 | 5.06 | 0.40 | 7.7 |
| 4/24/2015 7:53:34 | 51.51 | 47.81 | 158 | 5.76 | 0.40 | 8.6 |
| 4/24/2015 7:53:36 | 51.84 | 48.14 | 167 | 4.02 | 0.38 | 9.1 |
| 4/24/2015 7:53:37 | 52.17 | 48.47 | 219 | 4.71 | 0.39 | 12.0 |
| 4/24/2015 7:53:39 | 52.49 | 48.79 | 209 | 4.40 | 0.40 | 11.4 |
| 4/24/2015 7:54:00 | 52.82 | 49.12 | 66 | 4.69 | 0.40 | 3.6 |
| 4/24/2015 7:54:03 | 53.15 | 49.45 | 135 | 4.78 | 0.38 | 7.4 |
| 4/24/2015 7:54:04 | 53.48 | 49.78 | 180 | 4.15 | 0.37 | 9.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 7:54:05 | 53.81 | 50.11 | 252 | 4.05 | 0.37 | 13.8 |
| 4/24/2015 | 7:54:06 | 54.13 | 50.43 | 315 | 3.65 | 0.37 | 17.2 |
| 4/24/2015 | 7:54:07 | 54.46 | 50.76 | 373 | 3.71 | 0.37 | 20.4 |
| 4/24/2015 | 7:54:08 | 54.79 | 51.09 | 390 | 5.17 | 0.39 | 21.3 |
| 4/24/2015 | 7:54:30 | 55.12 | 51.42 | 55 | 4.17 | 0.37 | 3.0 |
| 4/24/2015 | 7:54:31 | 55.45 | 51.75 | 204 | 4.55 | 0.37 | 11.1 |
| 4/24/2015 | 7:54:32 | 55.77 | 52.07 | 300 | 4.84 | 0.38 | 16.4 |
| 4/24/2015 | 7:54:36 | 56.10 | 52.40 | 48 | 3.96 | 0.40 | 2.6 |
| 4/24/2015 | 7:54:43 | 56.43 | 52.73 | 47 | 5.02 | 0.40 | 2.5 |
| 4/24/2015 | 7:54:52 | 56.76 | 53.06 | 40 | 4.15 | 0.40 | 2.2 |
| 4/24/2015 | 7:54:59 | 57.03 | 53.33 | 38 | 4.36 | 0.40 | 2.1 |

## H328 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 7:50:45

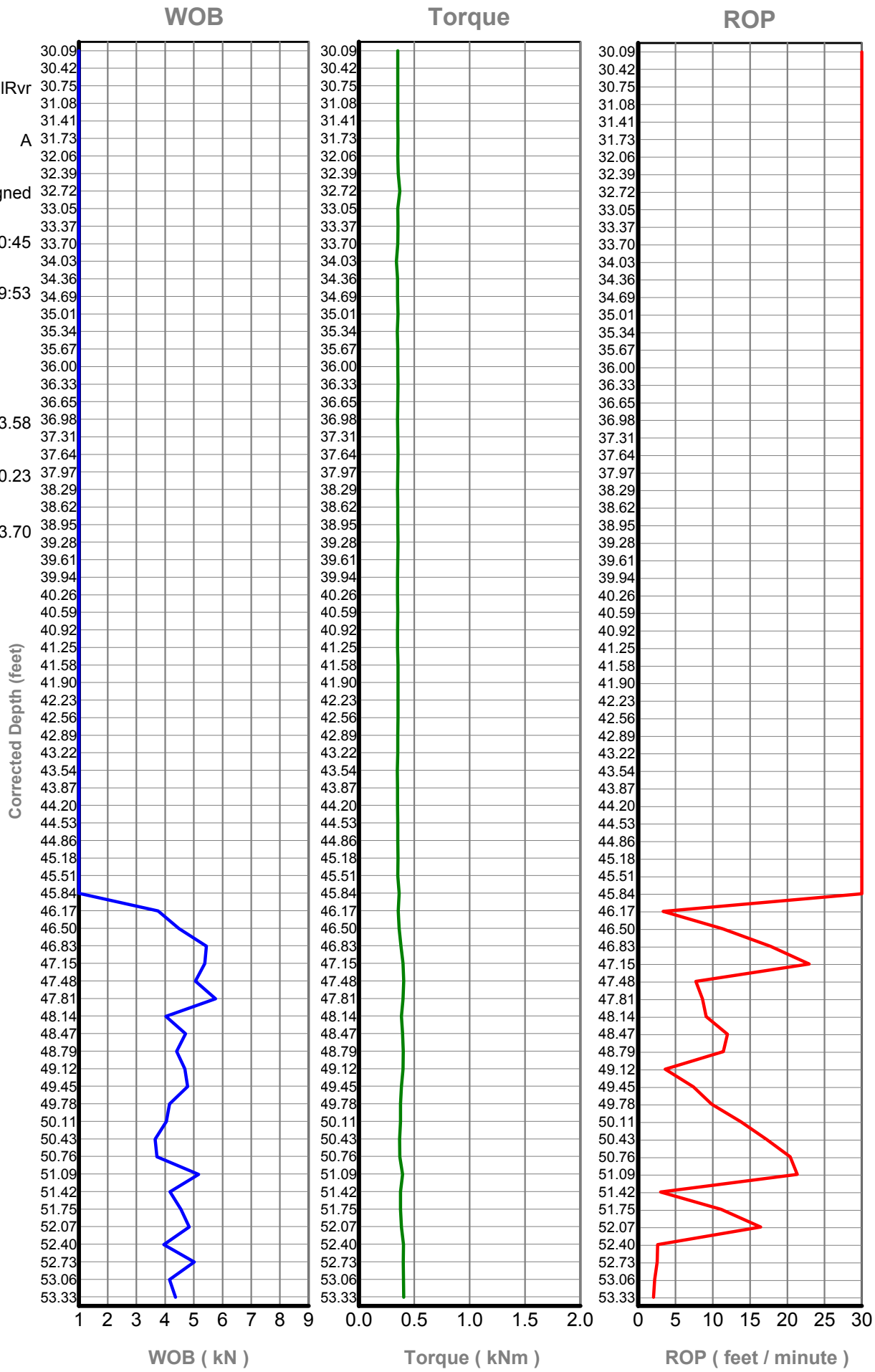
**End Date:**
4/24/2015 7:59:53

**Operator Note:**
'3.7 3.7 b Rock'

**Northing:**
366,743.58

**Easting:**
251,260.23

**Tide (feet):**
3.70



## Hole: H329 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 8:03:03 | 33.46 | 30.06 | 773 | 0.41 | 0.34 | 42.3 |
| 4/24/2015 8:03:04 | 33.79 | 30.39 | 769 | 0.41 | 0.34 | 42.0 |
| 4/24/2015 8:03:04 | 34.12 | 30.72 | 769 | 0.41 | 0.34 | 42.0 |
| 4/24/2015 8:03:04 | 34.45 | 31.05 | 782 | 0.41 | 0.35 | 42.8 |
| 4/24/2015 8:03:05 | 34.78 | 31.38 | 794 | 0.41 | 0.34 | 43.4 |
| 4/24/2015 8:03:06 | 35.11 | 31.71 | 781 | 0.41 | 0.34 | 42.7 |
| 4/24/2015 8:03:06 | 35.43 | 32.03 | 756 | 0.41 | 0.34 | 41.3 |
| 4/24/2015 8:03:07 | 35.76 | 32.36 | 756 | 0.41 | 0.34 | 41.3 |
| 4/24/2015 8:03:07 | 36.09 | 32.69 | 758 | 0.41 | 0.34 | 41.4 |
| 4/24/2015 8:03:08 | 36.42 | 33.02 | 758 | 0.41 | 0.34 | 41.4 |
| 4/24/2015 8:03:08 | 36.75 | 33.35 | 757 | 0.41 | 0.34 | 41.4 |
| 4/24/2015 8:03:09 | 37.07 | 33.67 | 746 | 0.41 | 0.34 | 40.8 |
| 4/24/2015 8:03:09 | 37.40 | 34.00 | 746 | 0.41 | 0.34 | 40.8 |
| 4/24/2015 8:03:09 | 37.73 | 34.33 | 754 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:10 | 38.06 | 34.66 | 770 | 0.42 | 0.34 | 42.1 |
| 4/24/2015 8:03:10 | 38.39 | 34.99 | 773 | 0.41 | 0.34 | 42.3 |
| 4/24/2015 8:03:11 | 38.71 | 35.31 | 766 | 0.42 | 0.33 | 41.9 |
| 4/24/2015 8:03:11 | 39.04 | 35.64 | 770 | 0.42 | 0.34 | 42.1 |
| 4/24/2015 8:03:12 | 39.37 | 35.97 | 772 | 0.41 | 0.34 | 42.2 |
| 4/24/2015 8:03:12 | 39.70 | 36.30 | 772 | 0.41 | 0.34 | 42.2 |
| 4/24/2015 8:03:13 | 40.03 | 36.63 | 767 | 0.41 | 0.34 | 42.0 |
| 4/24/2015 8:03:13 | 40.35 | 36.95 | 752 | 0.41 | 0.34 | 41.1 |
| 4/24/2015 8:03:14 | 40.68 | 37.28 | 752 | 0.41 | 0.34 | 41.1 |
| 4/24/2015 8:03:14 | 41.01 | 37.61 | 752 | 0.41 | 0.33 | 41.1 |
| 4/24/2015 8:03:15 | 41.34 | 37.94 | 763 | 0.41 | 0.34 | 41.7 |
| 4/24/2015 8:03:15 | 41.67 | 38.27 | 741 | 0.41 | 0.34 | 40.5 |
| 4/24/2015 8:03:15 | 41.99 | 38.59 | 741 | 0.44 | 0.34 | 40.5 |
| 4/24/2015 8:03:16 | 42.32 | 38.92 | 753 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:17 | 42.65 | 39.25 | 750 | 0.41 | 0.34 | 41.0 |
| 4/24/2015 8:03:17 | 42.98 | 39.58 | 763 | 0.41 | 0.34 | 41.7 |
| 4/24/2015 8:03:18 | 43.31 | 39.91 | 754 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:18 | 43.64 | 40.24 | 759 | 0.41 | 0.34 | 41.5 |
| 4/24/2015 8:03:19 | 43.96 | 40.56 | 759 | 0.41 | 0.34 | 41.5 |
| 4/24/2015 8:03:19 | 44.29 | 40.89 | 759 | 0.41 | 0.34 | 41.5 |
| 4/24/2015 8:03:19 | 44.62 | 41.22 | 753 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:20 | 44.95 | 41.55 | 754 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:20 | 45.28 | 41.88 | 760 | 0.41 | 0.34 | 41.6 |
| 4/24/2015 8:03:21 | 45.60 | 42.20 | 750 | 0.41 | 0.34 | 41.0 |
| 4/24/2015 8:03:21 | 45.93 | 42.53 | 753 | 0.41 | 0.34 | 41.2 |
| 4/24/2015 8:03:22 | 46.26 | 42.86 | 752 | 0.41 | 0.34 | 41.1 |
| 4/24/2015 8:03:22 | 46.59 | 43.19 | 746 | 0.41 | 0.33 | 40.8 |
| 4/24/2015 8:03:23 | 46.92 | 43.52 | 752 | 0.41 | 0.34 | 41.1 |
| 4/24/2015 8:03:23 | 47.24 | 43.84 | 752 | 0.41 | 0.34 | 41.1 |
| 4/24/2015 8:03:23 | 47.57 | 44.17 | 758 | 0.41 | 0.34 | 41.5 |
| 4/24/2015 8:03:24 | 47.90 | 44.50 | 768 | 0.41 | 0.34 | 42.0 |
| 4/24/2015 8:03:24 | 48.23 | 44.83 | 761 | 0.41 | 0.34 | 41.6 |
| 4/24/2015 8:03:25 | 48.56 | 45.16 | 773 | 0.41 | 0.34 | 42.3 |
| 4/24/2015 8:03:25 | 48.88 | 45.48 | 756 | 0.41 | 0.34 | 41.4 |
| 4/24/2015 8:03:26 | 49.21 | 45.81 | 761 | 0.41 | 0.35 | 41.6 |
| 4/24/2015 8:03:38 | 49.54 | 46.14 | 0 | 5.04 | 0.35 | 0.0 |
| 4/24/2015 8:03:39 | 49.87 | 46.47 | 115 | 6.41 | 0.38 | 6.3 |
| 4/24/2015 8:03:43 | 50.20 | 46.80 | 67 | 6.00 | 0.39 | 3.7 |
| 4/24/2015 8:03:46 | 50.53 | 47.13 | 98 | 3.54 | 0.38 | 5.3 |
| 4/24/2015 8:03:48 | 50.85 | 47.45 | 169 | 4.45 | 0.39 | 9.2 |
| 4/24/2015 8:03:50 | 51.18 | 47.78 | 156 | 5.37 | 0.39 | 8.5 |
| 4/24/2015 8:04:04 | 51.51 | 48.11 | 0 | 3.77 | 0.38 | 0.0 |
| 4/24/2015 8:04:07 | 51.84 | 48.44 | 80 | 4.84 | 0.40 | 4.4 |
| 4/24/2015 8:04:11 | 52.17 | 48.77 | 130 | 8.25 | 0.41 | 7.1 |
| 4/24/2015 8:04:31 | 52.49 | 49.09 | 60 | 4.40 | 0.37 | 3.3 |
| 4/24/2015 8:04:32 | 52.82 | 49.42 | 228 | 3.64 | 0.37 | 12.5 |
| 4/24/2015 8:04:33 | 53.15 | 49.75 | 398 | 3.05 | 0.36 | 21.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 8:04:34 | 53.48 | 50.08 | 432 | 4.05 | 0.37 | 23.6 |
| 4/24/2015 | 8:04:35 | 53.81 | 50.41 | 439 | 4.79 | 0.37 | 24.0 |
| 4/24/2015 | 8:04:36 | 54.13 | 50.73 | 392 | 4.64 | 0.38 | 21.4 |
| 4/24/2015 | 8:04:37 | 54.46 | 51.06 | 372 | 3.92 | 0.38 | 20.3 |
| 4/24/2015 | 8:04:38 | 54.79 | 51.39 | 351 | 2.80 | 0.35 | 19.2 |
| 4/24/2015 | 8:04:39 | 55.12 | 51.72 | 389 | 3.17 | 0.36 | 21.3 |
| 4/24/2015 | 8:04:39 | 55.45 | 52.05 | 448 | 3.11 | 0.35 | 24.5 |
| 4/24/2015 | 8:04:40 | 55.77 | 52.37 | 492 | 3.37 | 0.37 | 26.9 |
| 4/24/2015 | 8:04:41 | 56.10 | 52.70 | 535 | 3.09 | 0.36 | 29.2 |
| 4/24/2015 | 8:04:41 | 56.43 | 53.03 | 535 | 3.03 | 0.37 | 29.3 |
| 4/24/2015 | 8:04:42 | 56.76 | 53.36 | 480 | 4.06 | 0.37 | 26.3 |
| 4/24/2015 | 8:04:43 | 57.09 | 53.69 | 396 | 4.56 | 0.38 | 21.7 |
| 4/24/2015 | 8:07:22 | 57.41 | 54.01 | 11 | 3.73 | 0.40 | 0.6 |
| 4/24/2015 | 8:07:30 | 57.74 | 54.34 | 58 | 3.65 | 0.40 | 3.2 |
| 4/24/2015 | 8:07:36 | 58.07 | 54.67 | 54 | 3.78 | 0.39 | 3.0 |
| 4/24/2015 | 8:07:43 | 58.40 | 55.00 | 46 | 3.77 | 0.41 | 2.5 |
| 4/24/2015 | 8:07:47 | 58.60 | 55.20 | 54 | 3.83 | 0.40 | 3.0 |

## H329 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 8:01:15

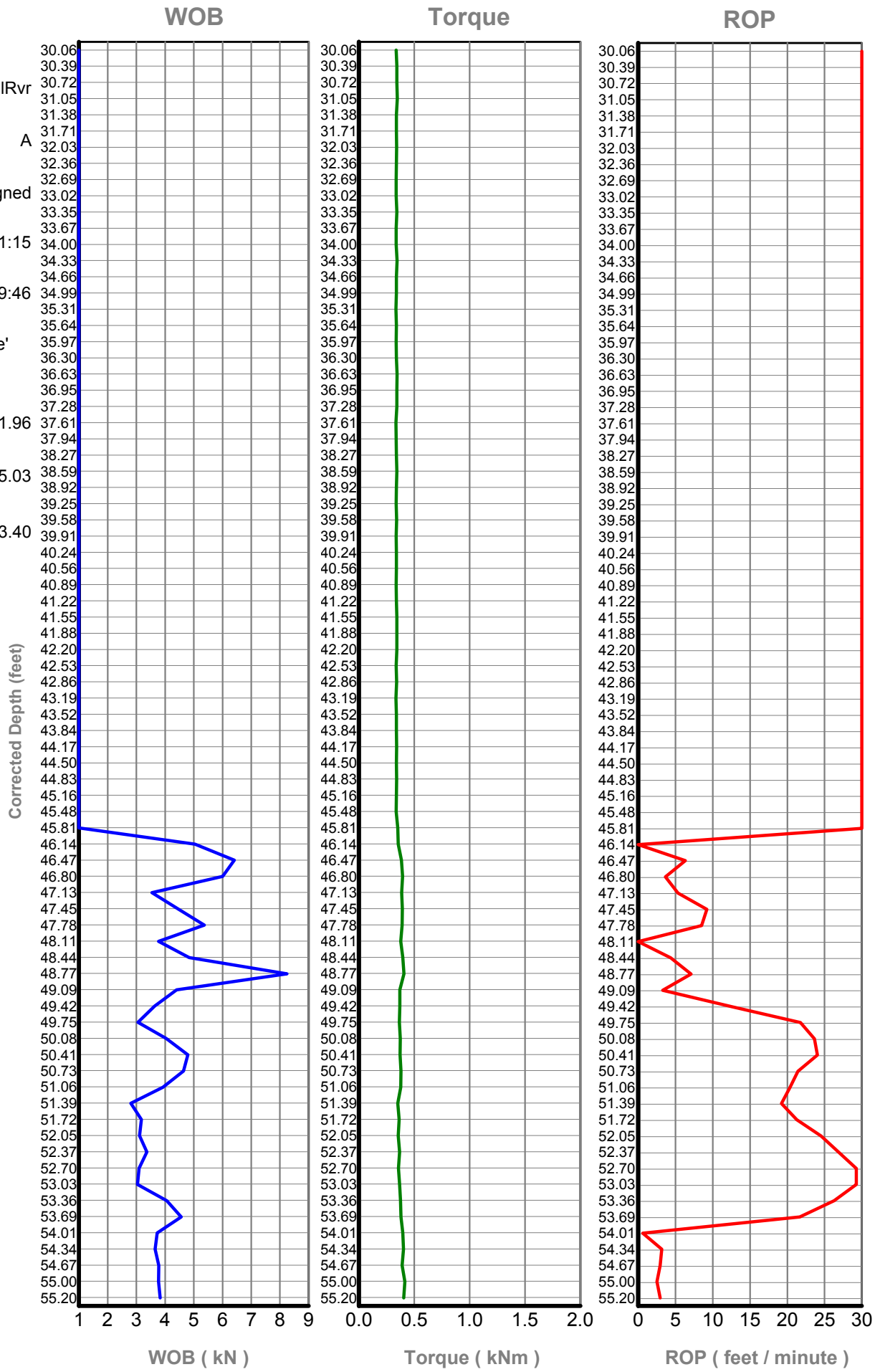
**End Date:**
4/24/2015 8:09:46

**Operator Note:**
'3.4 3.6 b Auto Complete'

**Northing:**
366,781.96

**Easting:**
251,305.03

**Tide (feet):**
3.40



## Hole: H33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 20:44:21 | 33.46 | 30.26 | 654 | 2.04 | 0.18 | 35.8 |
| 4/24/2015 20:44:21 | 33.79 | 30.59 | 648 | 2.05 | 0.18 | 35.4 |
| 4/24/2015 20:44:22 | 34.12 | 30.92 | 648 | 2.06 | 0.18 | 35.4 |
| 4/24/2015 20:44:22 | 34.45 | 31.25 | 641 | 2.04 | 0.18 | 35.0 |
| 4/24/2015 20:44:23 | 34.78 | 31.58 | 651 | 2.06 | 0.18 | 35.6 |
| 4/24/2015 20:44:23 | 35.11 | 31.91 | 645 | 2.04 | 0.18 | 35.3 |
| 4/24/2015 20:44:24 | 35.43 | 32.23 | 645 | 2.03 | 0.18 | 35.3 |
| 4/24/2015 20:44:44 | 35.76 | 32.56 | 0 | 2.03 | 1.34 | 0.0 |
| 4/24/2015 20:44:54 | 36.09 | 32.89 | 32 | 2.04 | 1.25 | 1.7 |
| 4/24/2015 20:45:05 | 36.42 | 33.22 | 33 | 2.04 | 1.24 | 1.8 |
| 4/24/2015 20:45:16 | 36.75 | 33.55 | 32 | 2.04 | 1.25 | 1.7 |
| 4/24/2015 20:45:25 | 37.01 | 33.81 | 35 | 2.06 | 1.32 | 1.9 |

## H33 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 20:42:59

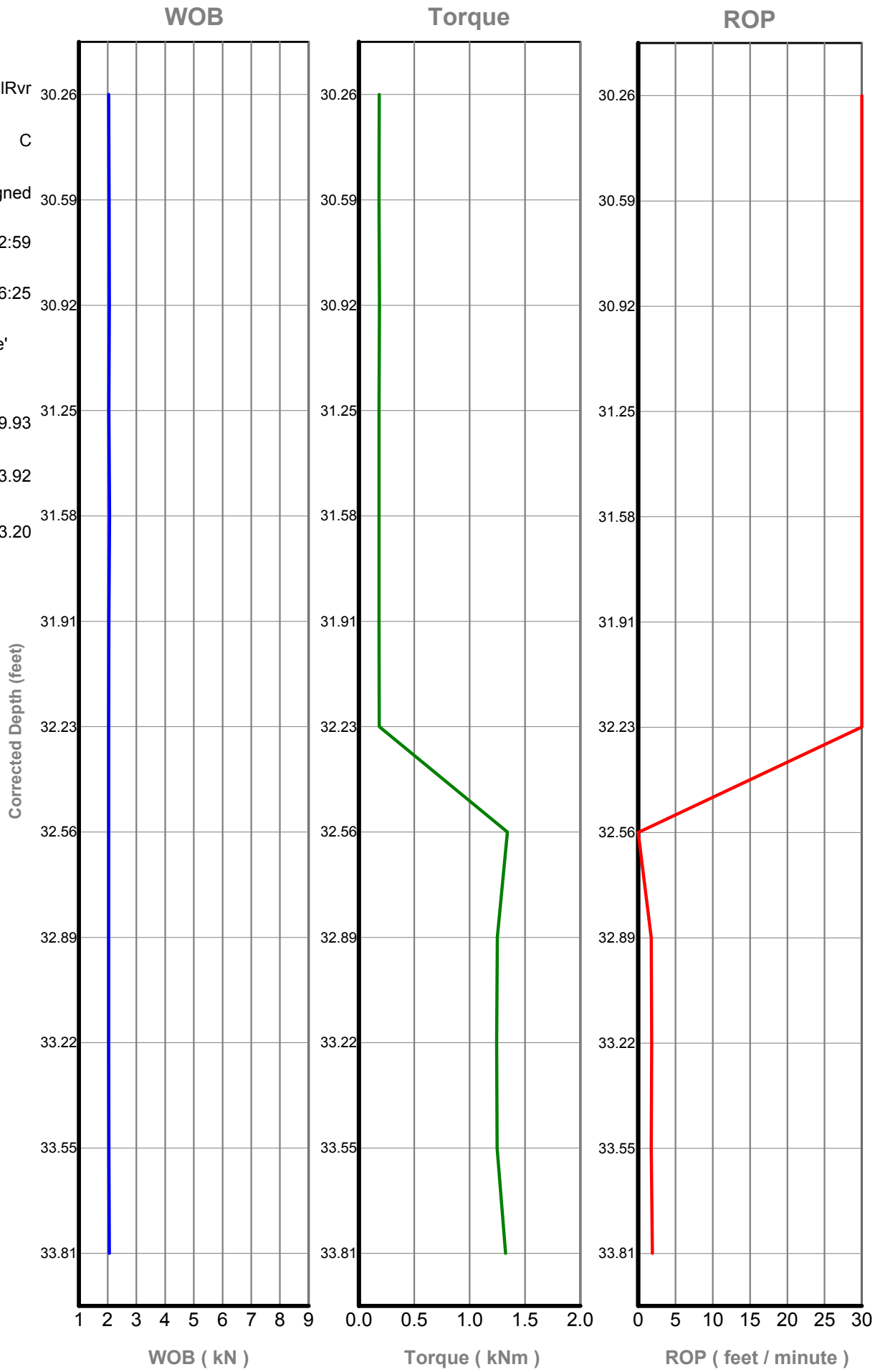
**End Date:**
4/24/2015 20:46:25

**Operator Note:**
'3.2 3.3 c Auto Complete'

**Northing:**
367,099.93

**Easting:**
250,863.92

**Tide (feet):**
3.20



## Hole: H330 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 7:52:01 | 33.79 | 30.09 | 540 | 2.04 | 0.37 | 29.6 |
| 4/24/2015 7:52:02 | 34.12 | 30.42 | 537 | 2.04 | 0.37 | 29.4 |
| 4/24/2015 7:52:02 | 34.45 | 30.75 | 541 | 2.02 | 0.37 | 29.6 |
| 4/24/2015 7:52:03 | 34.78 | 31.08 | 543 | 2.06 | 0.37 | 29.7 |
| 4/24/2015 7:52:04 | 35.11 | 31.41 | 546 | 2.04 | 0.37 | 29.9 |
| 4/24/2015 7:52:05 | 35.43 | 31.73 | 549 | 2.05 | 0.37 | 30.0 |
| 4/24/2015 7:52:05 | 35.76 | 32.06 | 549 | 2.04 | 0.37 | 30.0 |
| 4/24/2015 7:52:06 | 36.09 | 32.39 | 550 | 2.06 | 0.37 | 30.1 |
| 4/24/2015 7:52:07 | 36.42 | 32.72 | 547 | 2.00 | 0.37 | 29.9 |
| 4/24/2015 7:52:07 | 36.75 | 33.05 | 547 | 2.02 | 0.37 | 29.9 |
| 4/24/2015 7:52:08 | 37.07 | 33.37 | 544 | 2.06 | 0.36 | 29.8 |
| 4/24/2015 7:52:08 | 37.40 | 33.70 | 544 | 2.05 | 0.36 | 29.7 |
| 4/24/2015 7:52:09 | 37.73 | 34.03 | 546 | 2.05 | 0.36 | 29.9 |
| 4/24/2015 7:52:10 | 38.06 | 34.36 | 549 | 2.04 | 0.37 | 30.0 |
| 4/24/2015 7:52:10 | 38.39 | 34.69 | 549 | 2.02 | 0.37 | 30.0 |
| 4/24/2015 7:52:11 | 38.71 | 35.01 | 549 | 2.03 | 0.37 | 30.0 |
| 4/24/2015 7:52:12 | 39.04 | 35.34 | 549 | 2.00 | 0.37 | 30.0 |
| 4/24/2015 7:52:12 | 39.37 | 35.67 | 546 | 2.04 | 0.37 | 29.9 |
| 4/24/2015 7:52:13 | 39.70 | 36.00 | 549 | 2.03 | 0.37 | 30.0 |
| 4/24/2015 7:52:14 | 40.03 | 36.33 | 546 | 1.99 | 0.37 | 29.9 |
| 4/24/2015 7:52:15 | 40.35 | 36.65 | 546 | 2.04 | 0.37 | 29.9 |
| 4/24/2015 7:52:15 | 40.68 | 36.98 | 549 | 2.04 | 0.37 | 30.0 |
| 4/24/2015 7:52:16 | 41.01 | 37.31 | 546 | 2.04 | 0.37 | 29.9 |
| 4/24/2015 7:52:17 | 41.34 | 37.64 | 546 | 2.02 | 0.37 | 29.9 |
| 4/24/2015 7:52:17 | 41.67 | 37.97 | 549 | 2.04 | 0.37 | 30.0 |
| 4/24/2015 7:52:18 | 41.99 | 38.29 | 543 | 2.03 | 0.37 | 29.7 |
| 4/24/2015 7:52:18 | 42.32 | 38.62 | 546 | 2.05 | 0.37 | 29.9 |
| 4/24/2015 7:52:19 | 42.65 | 38.95 | 543 | 2.04 | 0.37 | 29.7 |
| 4/24/2015 7:52:20 | 42.98 | 39.28 | 547 | 2.06 | 0.37 | 29.9 |
| 4/24/2015 7:52:20 | 43.31 | 39.61 | 547 | 2.02 | 0.37 | 29.9 |
| 4/24/2015 7:52:21 | 43.64 | 39.94 | 544 | 2.06 | 0.37 | 29.7 |
| 4/24/2015 7:52:22 | 43.96 | 40.26 | 547 | 2.02 | 0.37 | 29.9 |
| 4/24/2015 7:52:22 | 44.29 | 40.59 | 544 | 2.02 | 0.36 | 29.7 |
| 4/24/2015 7:52:23 | 44.62 | 40.92 | 546 | 2.02 | 0.37 | 29.9 |
| 4/24/2015 7:52:23 | 44.95 | 41.25 | 546 | 2.05 | 0.37 | 29.9 |
| 4/24/2015 7:52:24 | 45.28 | 41.58 | 549 | 1.94 | 0.37 | 30.0 |
| 4/24/2015 7:52:25 | 45.60 | 41.90 | 546 | 2.05 | 0.37 | 29.9 |
| 4/24/2015 7:52:26 | 45.93 | 42.23 | 549 | 2.01 | 0.37 | 30.0 |
| 4/24/2015 7:52:26 | 46.26 | 42.56 | 549 | 2.11 | 0.36 | 30.0 |
| 4/24/2015 7:52:27 | 46.59 | 42.89 | 546 | 2.02 | 0.36 | 29.9 |
| 4/24/2015 7:52:28 | 46.92 | 43.22 | 553 | 2.01 | 0.36 | 30.2 |
| 4/24/2015 7:52:28 | 47.24 | 43.54 | 546 | 2.06 | 0.36 | 29.9 |
| 4/24/2015 7:52:29 | 47.57 | 43.87 | 550 | 2.04 | 0.36 | 30.1 |
| 4/24/2015 7:52:41 | 47.90 | 44.20 | 6 | 2.03 | 1.34 | 0.3 |
| 4/24/2015 7:52:44 | 48.23 | 44.53 | 101 | 1.99 | 1.17 | 5.5 |
| 4/24/2015 7:52:45 | 48.56 | 44.86 | 186 | 2.02 | 1.24 | 10.2 |
| 4/24/2015 7:52:47 | 48.88 | 45.18 | 241 | 2.02 | 1.24 | 13.2 |
| 4/24/2015 7:52:49 | 49.21 | 45.51 | 233 | 2.03 | 1.26 | 12.8 |
| 4/24/2015 7:52:57 | 49.54 | 45.84 | 0 | 2.02 | 1.19 | 0.0 |
| 4/24/2015 7:52:58 | 49.87 | 46.17 | 139 | 2.04 | 1.33 | 7.6 |
| 4/24/2015 7:52:59 | 50.20 | 46.50 | 197 | 2.04 | 1.17 | 10.8 |
| 4/24/2015 7:53:00 | 50.53 | 46.83 | 277 | 2.02 | 1.26 | 15.2 |
| 4/24/2015 7:53:01 | 50.85 | 47.15 | 330 | 2.03 | 1.28 | 18.1 |
| 4/24/2015 7:53:02 | 51.18 | 47.48 | 331 | 1.99 | 1.25 | 18.1 |
| 4/24/2015 7:53:04 | 51.51 | 47.81 | 290 | 2.04 | 1.29 | 15.9 |
| 4/24/2015 7:53:05 | 51.84 | 48.14 | 274 | 2.00 | 1.27 | 15.0 |
| 4/24/2015 7:53:06 | 52.17 | 48.47 | 277 | 2.02 | 1.28 | 15.1 |
| 4/24/2015 7:53:08 | 52.49 | 48.79 | 284 | 2.04 | 1.20 | 15.5 |
| 4/24/2015 7:53:09 | 52.82 | 49.12 | 278 | 2.02 | 1.21 | 15.2 |
| 4/24/2015 7:53:58 | 53.15 | 49.45 | 79 | 2.02 | 1.34 | 4.3 |
| 4/24/2015 7:54:00 | 53.48 | 49.78 | 223 | 2.03 | 1.24 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 7:54:01 | 53.81 | 50.11 | 275 | 2.02 | 1.09 | 15.0 |
| 4/24/2015 | 7:54:02 | 54.13 | 50.43 | 331 | 2.03 | 1.13 | 18.1 |
| 4/24/2015 | 7:54:03 | 54.46 | 50.76 | 379 | 2.02 | 1.16 | 20.7 |
| 4/24/2015 | 7:54:04 | 54.79 | 51.09 | 357 | 2.02 | 1.16 | 19.5 |
| 4/24/2015 | 7:54:05 | 55.12 | 51.42 | 350 | 2.02 | 1.19 | 19.1 |
| 4/24/2015 | 7:54:06 | 55.45 | 51.75 | 324 | 2.02 | 1.20 | 17.7 |
| 4/24/2015 | 7:54:07 | 55.77 | 52.07 | 297 | 2.02 | 1.29 | 16.2 |
| 4/24/2015 | 7:54:08 | 56.10 | 52.40 | 281 | 2.01 | 1.14 | 15.4 |
| 4/24/2015 | 7:54:10 | 56.43 | 52.73 | 292 | 2.01 | 1.14 | 16.0 |
| 4/24/2015 | 7:54:11 | 56.76 | 53.06 | 324 | 2.01 | 1.12 | 17.7 |
| 4/24/2015 | 7:54:12 | 57.09 | 53.39 | 344 | 2.04 | 1.11 | 18.8 |
| 4/24/2015 | 7:54:13 | 57.41 | 53.71 | 375 | 2.02 | 1.10 | 20.5 |
| 4/24/2015 | 7:54:13 | 57.74 | 54.04 | 379 | 2.02 | 1.10 | 20.7 |
| 4/24/2015 | 7:54:14 | 58.07 | 54.37 | 387 | 2.01 | 1.13 | 21.2 |
| 4/24/2015 | 7:54:16 | 58.40 | 54.70 | 255 | 2.02 | 1.36 | 14.0 |
| 4/24/2015 | 7:54:23 | 58.69 | 54.99 | 43 | 2.02 | 1.51 | 2.4 |

## H330 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 7:49:25

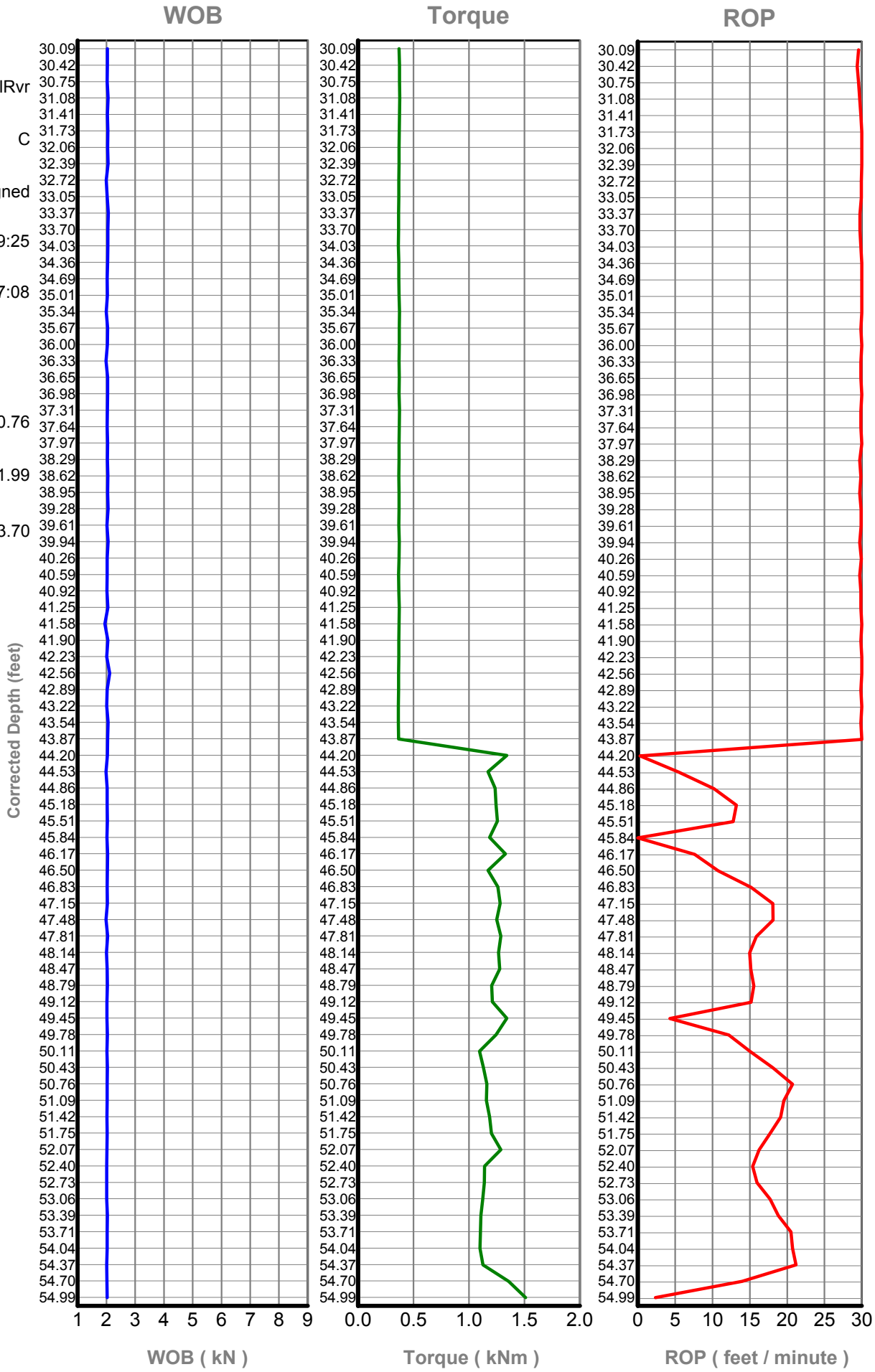
**End Date:**
4/24/2015 7:57:08

**Operator Note:**
'3.7 2.7 C Auto Complete'

**Northing:**
366,830.76

**Easting:**
251,361.99

**Tide (feet):**
3.70



## Hole: H331 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 2:26:25 | 32.48 | 30.18 | 752 | 1.96 | 0.34 | 41.1 |
| 4/24/2015 2:26:26 | 32.81 | 30.51 | 757 | 1.96 | 0.34 | 41.4 |
| 4/24/2015 2:26:26 | 33.14 | 30.84 | 766 | 1.95 | 0.34 | 41.9 |
| 4/24/2015 2:26:27 | 33.46 | 31.16 | 765 | 1.97 | 0.34 | 41.8 |
| 4/24/2015 2:26:27 | 33.79 | 31.49 | 769 | 1.96 | 0.34 | 42.0 |
| 4/24/2015 2:26:28 | 34.12 | 31.82 | 769 | 1.96 | 0.34 | 42.0 |
| 4/24/2015 2:26:28 | 34.45 | 32.15 | 769 | 1.98 | 0.34 | 42.0 |
| 4/24/2015 2:26:28 | 34.78 | 32.48 | 769 | 1.97 | 0.34 | 42.0 |
| 4/24/2015 2:26:29 | 35.11 | 32.81 | 766 | 1.96 | 0.34 | 41.9 |
| 4/24/2015 2:26:30 | 35.43 | 33.13 | 766 | 1.96 | 0.34 | 41.9 |
| 4/24/2015 2:26:30 | 35.76 | 33.46 | 769 | 1.96 | 0.34 | 42.0 |
| 4/24/2015 2:26:31 | 36.09 | 33.79 | 769 | 1.95 | 0.34 | 42.0 |
| 4/24/2015 2:26:31 | 36.42 | 34.12 | 763 | 1.95 | 0.34 | 41.7 |
| 4/24/2015 2:26:32 | 36.75 | 34.45 | 763 | 1.95 | 0.34 | 41.7 |
| 4/24/2015 2:26:32 | 37.07 | 34.77 | 760 | 1.97 | 0.34 | 41.6 |
| 4/24/2015 2:26:33 | 37.40 | 35.10 | 760 | 1.97 | 0.34 | 41.6 |
| 4/24/2015 2:26:33 | 37.73 | 35.43 | 763 | 1.97 | 0.34 | 41.7 |
| 4/24/2015 2:26:33 | 38.06 | 35.76 | 763 | 1.97 | 0.34 | 41.7 |
| 4/24/2015 2:26:34 | 38.39 | 36.09 | 766 | 1.98 | 0.34 | 41.9 |
| 4/24/2015 2:26:34 | 38.71 | 36.41 | 762 | 1.98 | 0.34 | 41.7 |
| 4/24/2015 2:26:35 | 39.04 | 36.74 | 769 | 1.96 | 0.34 | 42.1 |
| 4/24/2015 2:26:35 | 39.37 | 37.07 | 769 | 1.95 | 0.34 | 42.1 |
| 4/24/2015 2:26:36 | 39.70 | 37.40 | 750 | 1.96 | 0.34 | 41.0 |
| 4/24/2015 2:26:36 | 40.03 | 37.73 | 750 | 1.97 | 0.34 | 41.0 |
| 4/24/2015 2:26:37 | 40.35 | 38.05 | 750 | 1.97 | 0.34 | 41.0 |
| 4/24/2015 2:26:37 | 40.68 | 38.38 | 762 | 1.95 | 0.34 | 41.6 |
| 4/24/2015 2:26:37 | 41.01 | 38.71 | 766 | 1.96 | 0.34 | 41.9 |
| 4/24/2015 2:26:38 | 41.34 | 39.04 | 763 | 1.97 | 0.34 | 41.7 |
| 4/24/2015 2:26:44 | 41.67 | 39.37 | 3 | 1.95 | 0.34 | 0.2 |
| 4/24/2015 2:26:45 | 41.99 | 39.69 | 120 | 1.95 | 0.34 | 6.6 |
| 4/24/2015 2:26:45 | 42.32 | 40.02 | 270 | 1.93 | 0.34 | 14.8 |
| 4/24/2015 2:26:46 | 42.65 | 40.35 | 416 | 0.36 | 0.34 | 22.7 |
| 4/24/2015 2:26:46 | 42.98 | 40.68 | 560 | 0.37 | 0.35 | 30.6 |
| 4/24/2015 2:26:47 | 43.31 | 41.01 | 703 | 0.36 | 0.33 | 38.4 |
| 4/24/2015 2:26:47 | 43.64 | 41.34 | 703 | 0.36 | 0.33 | 38.4 |
| 4/24/2015 2:26:55 | 43.96 | 41.66 | 0 | 2.31 | 0.35 | 0.0 |
| 4/24/2015 2:26:56 | 44.29 | 41.99 | 100 | 2.31 | 0.36 | 5.5 |
| 4/24/2015 2:26:56 | 44.62 | 42.32 | 212 | 0.35 | 0.35 | 11.6 |
| 4/24/2015 2:26:57 | 44.95 | 42.65 | 314 | 0.36 | 0.35 | 17.2 |
| 4/24/2015 2:26:57 | 45.28 | 42.98 | 314 | 0.36 | 0.34 | 17.2 |
| 4/24/2015 2:26:58 | 45.60 | 43.30 | 462 | 0.35 | 0.35 | 25.2 |
| 4/24/2015 2:26:58 | 45.93 | 43.63 | 600 | 0.35 | 0.35 | 32.8 |
| 4/24/2015 2:26:59 | 46.26 | 43.96 | 634 | 0.35 | 0.35 | 34.7 |
| 4/24/2015 2:26:59 | 46.59 | 44.29 | 663 | 0.35 | 0.35 | 36.2 |
| 4/24/2015 2:27:00 | 46.92 | 44.62 | 700 | 0.35 | 0.34 | 38.3 |
| 4/24/2015 2:27:01 | 47.24 | 44.94 | 697 | 0.35 | 0.35 | 38.1 |
| 4/24/2015 2:27:01 | 47.57 | 45.27 | 703 | 0.35 | 0.37 | 38.4 |
| 4/24/2015 2:27:23 | 47.90 | 45.60 | 63 | 3.41 | 0.36 | 3.4 |
| 4/24/2015 2:27:23 | 48.23 | 45.93 | 174 | 3.62 | 0.38 | 9.5 |
| 4/24/2015 2:27:26 | 48.56 | 46.26 | 104 | 4.74 | 0.41 | 5.7 |
| 4/24/2015 2:27:36 | 48.88 | 46.58 | 61 | 3.80 | 0.37 | 3.3 |
| 4/24/2015 2:27:37 | 49.21 | 46.91 | 220 | 2.99 | 0.40 | 12.1 |
| 4/24/2015 2:27:52 | 49.54 | 47.24 | 29 | 4.15 | 0.37 | 1.6 |
| 4/24/2015 2:27:53 | 49.87 | 47.57 | 102 | 3.99 | 0.37 | 5.6 |
| 4/24/2015 2:27:54 | 50.20 | 47.90 | 179 | 4.62 | 0.37 | 9.8 |
| 4/24/2015 2:27:55 | 50.53 | 48.23 | 249 | 3.52 | 0.38 | 13.6 |
| 4/24/2015 2:27:58 | 50.85 | 48.55 | 133 | 5.57 | 0.39 | 7.3 |
| 4/24/2015 2:28:00 | 51.18 | 48.88 | 101 | 3.44 | 0.37 | 5.5 |
| 4/24/2015 2:28:01 | 51.51 | 49.21 | 237 | 3.93 | 0.37 | 13.0 |
| 4/24/2015 2:28:02 | 51.84 | 49.54 | 297 | 3.69 | 0.37 | 16.2 |
| 4/24/2015 2:28:04 | 52.17 | 49.87 | 359 | 4.68 | 0.39 | 19.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 2:28:05 | 52.49 | 50.19 | 321 | 3.83 | 0.37 | 17.5 |
| 4/24/2015 | 2:28:06 | 52.82 | 50.52 | 307 | 3.45 | 0.37 | 16.8 |
| 4/24/2015 | 2:28:46 | 53.15 | 50.85 | 59 | 2.59 | 0.36 | 3.2 |
| 4/24/2015 | 2:28:50 | 53.48 | 51.18 | 21 | 3.54 | 0.39 | 1.1 |
| 4/24/2015 | 2:28:52 | 53.81 | 51.51 | 138 | 4.19 | 0.38 | 7.5 |
| 4/24/2015 | 2:28:54 | 54.13 | 51.83 | 191 | 2.95 | 0.37 | 10.4 |
| 4/24/2015 | 2:28:56 | 54.46 | 52.16 | 217 | 5.69 | 0.40 | 11.9 |
| 4/24/2015 | 2:28:57 | 54.79 | 52.49 | 243 | 4.03 | 0.37 | 13.3 |
| 4/24/2015 | 2:28:58 | 55.12 | 52.82 | 269 | 2.92 | 0.36 | 14.7 |
| 4/24/2015 | 2:28:59 | 55.45 | 53.15 | 323 | 2.71 | 0.36 | 17.7 |
| 4/24/2015 | 2:29:00 | 55.77 | 53.47 | 408 | 2.75 | 0.36 | 22.3 |
| 4/24/2015 | 2:29:01 | 56.10 | 53.80 | 438 | 2.86 | 0.37 | 23.9 |
| 4/24/2015 | 2:29:01 | 56.43 | 54.13 | 440 | 2.59 | 0.36 | 24.1 |
| 4/24/2015 | 2:29:02 | 56.76 | 54.46 | 455 | 2.37 | 0.35 | 24.9 |
| 4/24/2015 | 2:29:03 | 57.09 | 54.79 | 465 | 2.57 | 0.36 | 25.4 |
| 4/24/2015 | 2:29:03 | 57.41 | 55.11 | 493 | 3.29 | 0.38 | 26.9 |
| 4/24/2015 | 2:29:04 | 57.74 | 55.44 | 453 | 3.11 | 0.37 | 24.8 |
| 4/24/2015 | 2:29:06 | 58.07 | 55.77 | 384 | 3.67 | 0.36 | 21.0 |
| 4/24/2015 | 2:29:07 | 58.40 | 56.10 | 384 | 3.31 | 0.37 | 21.0 |
| 4/24/2015 | 2:29:08 | 58.73 | 56.43 | 379 | 3.19 | 0.38 | 20.7 |
| 4/24/2015 | 2:29:11 | 59.06 | 56.76 | 101 | 4.18 | 0.38 | 5.5 |
| 4/24/2015 | 2:29:12 | 59.38 | 57.08 | 115 | 3.86 | 0.38 | 6.3 |
| 4/24/2015 | 2:29:31 | 59.71 | 57.41 | 49 | 5.42 | 0.40 | 2.7 |
| 4/24/2015 | 2:30:05 | 59.92 | 57.62 | 70 | 4.55 | 0.39 | 3.8 |

## H331 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 2:23:00

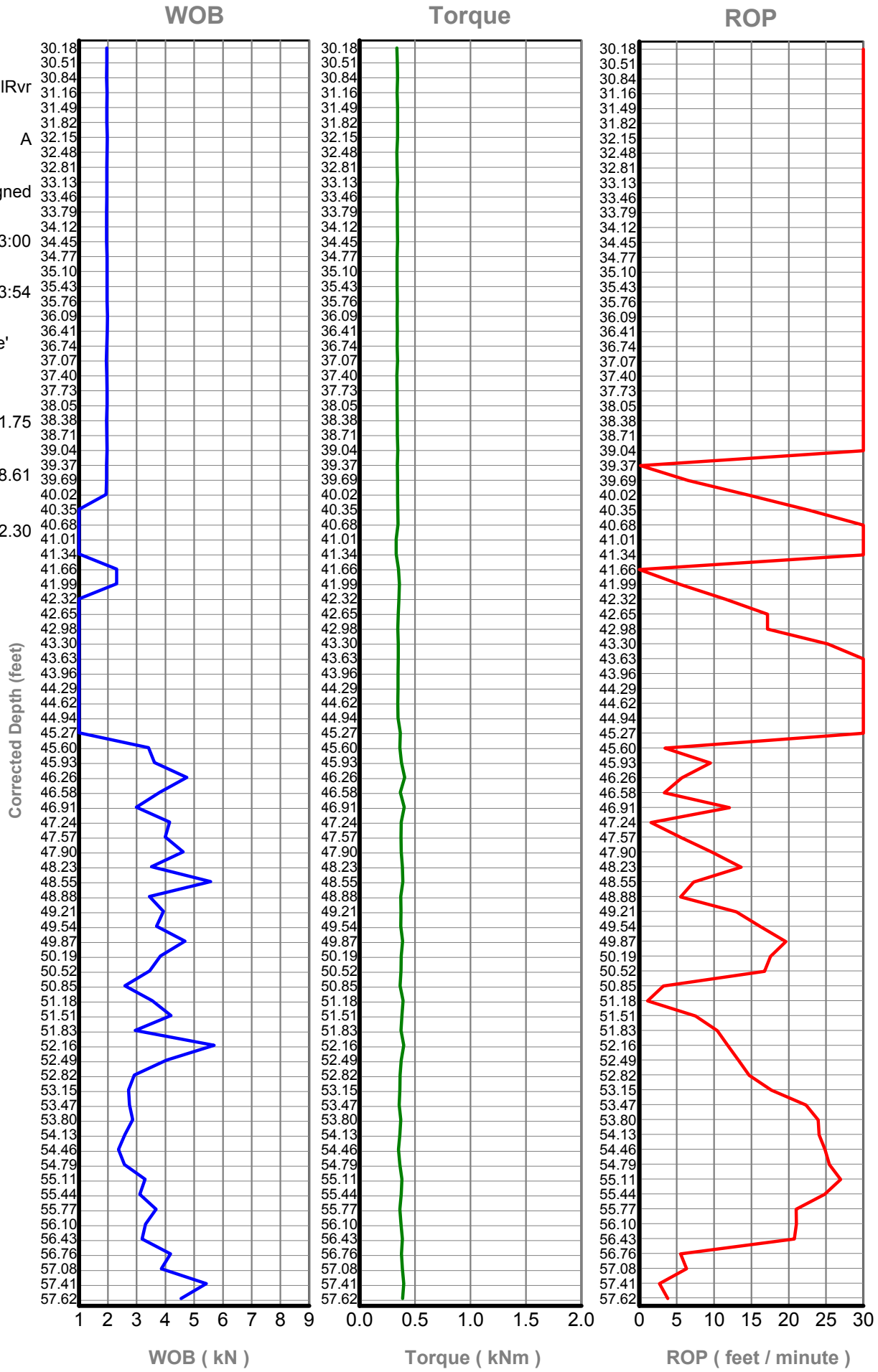
**End Date:**
4/24/2015 2:33:54

**Operator Note:**
'2.3 2.1 b Auto Complete'

**Northing:**
366,891.75

**Easting:**
251,438.61

**Tide (feet):**
2.30



## Hole: H332 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 2:36:03 | 32.81 | 30.31 | 586 | 1.98 | 0.17 | 32.0 |
| 4/24/2015 2:36:03 | 33.14 | 30.64 | 592 | 2.00 | 0.17 | 32.4 |
| 4/24/2015 2:36:04 | 33.46 | 30.96 | 580 | 2.01 | 0.17 | 31.7 |
| 4/24/2015 2:36:04 | 33.79 | 31.29 | 587 | 2.01 | 0.17 | 32.1 |
| 4/24/2015 2:36:05 | 34.12 | 31.62 | 596 | 2.02 | 0.17 | 32.6 |
| 4/24/2015 2:36:05 | 34.45 | 31.95 | 582 | 2.02 | 0.17 | 31.8 |
| 4/24/2015 2:36:06 | 34.78 | 32.28 | 582 | 2.01 | 0.17 | 31.8 |
| 4/24/2015 2:36:07 | 35.11 | 32.61 | 601 | 2.02 | 0.17 | 32.9 |
| 4/24/2015 2:36:07 | 35.43 | 32.93 | 598 | 2.01 | 0.17 | 32.7 |
| 4/24/2015 2:36:08 | 35.76 | 33.26 | 590 | 2.01 | 0.17 | 32.3 |
| 4/24/2015 2:36:09 | 36.09 | 33.59 | 590 | 2.02 | 0.17 | 32.3 |
| 4/24/2015 2:36:09 | 36.42 | 33.92 | 597 | 2.02 | 0.17 | 32.6 |
| 4/24/2015 2:36:10 | 36.75 | 34.25 | 586 | 2.01 | 0.17 | 32.1 |
| 4/24/2015 2:36:11 | 37.07 | 34.57 | 577 | 2.01 | 0.17 | 31.5 |
| 4/24/2015 2:36:11 | 37.40 | 34.90 | 577 | 2.02 | 0.18 | 31.5 |
| 4/24/2015 2:36:12 | 37.73 | 35.23 | 589 | 2.00 | 0.17 | 32.2 |
| 4/24/2015 2:36:12 | 38.06 | 35.56 | 583 | 2.02 | 0.17 | 31.9 |
| 4/24/2015 2:36:13 | 38.39 | 35.89 | 583 | 2.00 | 0.17 | 31.9 |
| 4/24/2015 2:36:13 | 38.71 | 36.21 | 586 | 1.99 | 0.17 | 32.0 |
| 4/24/2015 2:36:14 | 39.04 | 36.54 | 587 | 2.00 | 0.17 | 32.1 |
| 4/24/2015 2:36:15 | 39.37 | 36.87 | 590 | 2.02 | 0.17 | 32.2 |
| 4/24/2015 2:36:15 | 39.70 | 37.20 | 593 | 2.01 | 0.17 | 32.4 |
| 4/24/2015 2:36:16 | 40.03 | 37.53 | 590 | 2.02 | 0.17 | 32.3 |
| 4/24/2015 2:36:16 | 40.35 | 37.85 | 590 | 2.02 | 0.17 | 32.3 |
| 4/24/2015 2:36:17 | 40.68 | 38.18 | 593 | 2.00 | 0.17 | 32.4 |
| 4/24/2015 2:36:18 | 41.01 | 38.51 | 590 | 2.01 | 0.17 | 32.2 |
| 4/24/2015 2:36:18 | 41.34 | 38.84 | 590 | 2.03 | 0.17 | 32.2 |
| 4/24/2015 2:36:19 | 41.67 | 39.17 | 586 | 2.02 | 0.17 | 32.0 |
| 4/24/2015 2:36:20 | 41.99 | 39.49 | 590 | 2.04 | 0.17 | 32.2 |
| 4/24/2015 2:36:20 | 42.32 | 39.82 | 590 | 2.00 | 0.17 | 32.2 |
| 4/24/2015 2:36:21 | 42.65 | 40.15 | 590 | 2.00 | 0.17 | 32.2 |
| 4/24/2015 2:36:22 | 42.98 | 40.48 | 590 | 2.02 | 0.17 | 32.2 |
| 4/24/2015 2:36:22 | 43.31 | 40.81 | 590 | 2.03 | 0.17 | 32.2 |
| 4/24/2015 2:36:23 | 43.64 | 41.14 | 572 | 2.00 | 0.17 | 31.3 |
| 4/24/2015 2:36:23 | 43.96 | 41.46 | 579 | 2.02 | 0.17 | 31.6 |
| 4/24/2015 2:36:24 | 44.29 | 41.79 | 586 | 2.02 | 0.17 | 32.1 |
| 4/24/2015 2:36:24 | 44.62 | 42.12 | 577 | 2.02 | 0.17 | 31.6 |
| 4/24/2015 2:36:25 | 44.95 | 42.45 | 598 | 2.02 | 0.17 | 32.7 |
| 4/24/2015 2:36:26 | 45.28 | 42.78 | 581 | 2.00 | 0.17 | 31.8 |
| 4/24/2015 2:36:26 | 45.60 | 43.10 | 581 | 2.01 | 0.17 | 31.8 |
| 4/24/2015 2:36:27 | 45.93 | 43.43 | 584 | 2.00 | 0.17 | 32.0 |
| 4/24/2015 2:36:27 | 46.26 | 43.76 | 581 | 2.01 | 0.17 | 31.8 |
| 4/24/2015 2:36:28 | 46.59 | 44.09 | 581 | 2.02 | 0.17 | 31.8 |
| 4/24/2015 2:36:29 | 46.92 | 44.42 | 575 | 2.00 | 0.17 | 31.5 |
| 4/24/2015 2:36:30 | 47.24 | 44.74 | 592 | 2.00 | 0.17 | 32.4 |
| 4/24/2015 2:36:52 | 47.57 | 45.07 | 0 | 2.03 | 1.09 | 0.0 |
| 4/24/2015 2:36:53 | 47.90 | 45.40 | 94 | 2.02 | 1.18 | 5.1 |
| 4/24/2015 2:36:54 | 48.23 | 45.73 | 228 | 2.02 | 1.49 | 12.4 |
| 4/24/2015 2:36:55 | 48.56 | 46.06 | 341 | 2.00 | 1.21 | 18.6 |
| 4/24/2015 2:37:03 | 48.88 | 46.38 | 117 | 2.04 | 1.16 | 6.4 |
| 4/24/2015 2:37:11 | 49.21 | 46.71 | 85 | 2.02 | 1.30 | 4.7 |
| 4/24/2015 2:37:12 | 49.54 | 47.04 | 188 | 1.99 | 1.25 | 10.3 |
| 4/24/2015 2:37:35 | 49.87 | 47.37 | 40 | 2.00 | 1.15 | 2.2 |
| 4/24/2015 2:37:36 | 50.20 | 47.70 | 144 | 1.87 | 1.16 | 7.9 |
| 4/24/2015 2:37:50 | 50.53 | 48.03 | 102 | 1.97 | 1.18 | 5.6 |
| 4/24/2015 2:37:51 | 50.85 | 48.35 | 224 | 1.99 | 1.14 | 12.2 |
| 4/24/2015 2:37:58 | 51.18 | 48.68 | 103 | 2.02 | 1.15 | 5.6 |
| 4/24/2015 2:38:09 | 51.51 | 49.01 | 0 | 2.00 | 1.14 | 0.0 |
| 4/24/2015 2:38:10 | 51.84 | 49.34 | 137 | 2.00 | 1.16 | 7.5 |
| 4/24/2015 2:38:11 | 52.17 | 49.67 | 270 | 2.03 | 1.31 | 14.7 |
| 4/24/2015 2:38:12 | 52.49 | 49.99 | 305 | 2.01 | 1.20 | 16.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 2:38:46 | 52.82 | 50.32 | 0 | 2.01 | 1.34 | 0.0 |
| 4/24/2015 | 2:38:48 | 53.15 | 50.65 | 139 | 1.98 | 1.18 | 7.6 |
| 4/24/2015 | 2:38:49 | 53.48 | 50.98 | 211 | 2.02 | 1.24 | 11.5 |
| 4/24/2015 | 2:38:50 | 53.81 | 51.31 | 267 | 2.03 | 1.08 | 14.6 |
| 4/24/2015 | 2:38:51 | 54.13 | 51.63 | 283 | 2.01 | 1.25 | 15.5 |
| 4/24/2015 | 2:38:53 | 54.46 | 51.96 | 283 | 1.99 | 1.20 | 15.5 |
| 4/24/2015 | 2:39:03 | 54.79 | 52.29 | 66 | 2.00 | 1.28 | 3.6 |
| 4/24/2015 | 2:39:04 | 55.12 | 52.62 | 191 | 2.01 | 1.24 | 10.4 |
| 4/24/2015 | 2:39:06 | 55.45 | 52.95 | 230 | 2.01 | 1.10 | 12.6 |
| 4/24/2015 | 2:40:27 | 55.77 | 53.27 | 0 | 1.99 | 1.13 | 0.0 |
| 4/24/2015 | 2:40:30 | 56.10 | 53.60 | 83 | 2.00 | 1.14 | 4.5 |
| 4/24/2015 | 2:40:33 | 56.43 | 53.93 | 123 | 2.00 | 1.29 | 6.7 |
| 4/24/2015 | 2:40:35 | 56.76 | 54.26 | 202 | 2.00 | 1.25 | 11.1 |
| 4/24/2015 | 2:40:36 | 57.09 | 54.59 | 204 | 2.00 | 1.55 | 11.1 |
| 4/24/2015 | 2:40:38 | 57.41 | 54.91 | 209 | 2.01 | 1.20 | 11.4 |
| 4/24/2015 | 2:40:39 | 57.72 | 55.22 | 231 | 2.00 | 1.16 | 12.6 |

## H332 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 2:33:42

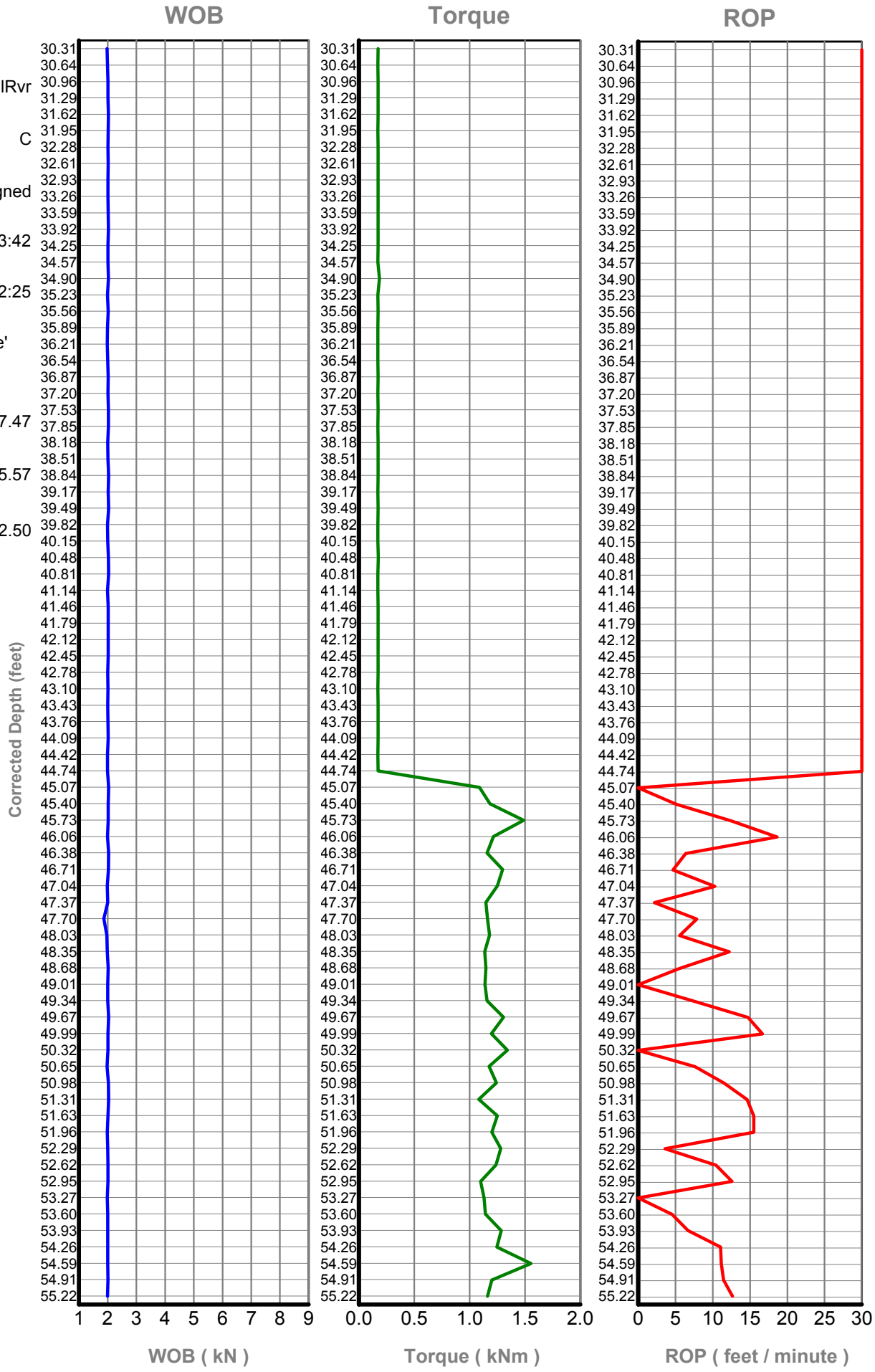
**End Date:**
4/24/2015 2:52:25

**Operator Note:**
'2.5 2.5 c Auto Complete'

**Northing:**
366,927.47

**Easting:**
251,485.57

**Tide (feet):**
2.50



## Hole: H333 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 2:24:41 | 32.48 | 30.18 | 590 | 2.01 | 0.18 | 32.3 |
| 4/24/2015 2:24:42 | 32.81 | 30.51 | 587 | 1.97 | 0.18 | 32.1 |
| 4/24/2015 2:24:43 | 33.14 | 30.84 | 591 | 1.98 | 0.18 | 32.3 |
| 4/24/2015 2:24:43 | 33.46 | 31.16 | 587 | 2.00 | 0.18 | 32.1 |
| 4/24/2015 2:24:44 | 33.79 | 31.49 | 581 | 2.00 | 0.18 | 31.8 |
| 4/24/2015 2:24:44 | 34.12 | 31.82 | 593 | 1.98 | 0.18 | 32.5 |
| 4/24/2015 2:24:45 | 34.45 | 32.15 | 587 | 2.01 | 0.18 | 32.1 |
| 4/24/2015 2:24:46 | 34.78 | 32.48 | 587 | 2.01 | 0.18 | 32.1 |
| 4/24/2015 2:24:46 | 35.11 | 32.81 | 590 | 2.00 | 0.18 | 32.3 |
| 4/24/2015 2:24:47 | 35.43 | 33.13 | 577 | 2.02 | 0.18 | 31.5 |
| 4/24/2015 2:24:47 | 35.76 | 33.46 | 577 | 2.02 | 0.18 | 31.5 |
| 4/24/2015 2:24:48 | 36.09 | 33.79 | 582 | 2.03 | 0.17 | 31.8 |
| 4/24/2015 2:24:48 | 36.42 | 34.12 | 589 | 2.01 | 0.17 | 32.2 |
| 4/24/2015 2:24:49 | 36.75 | 34.45 | 589 | 2.01 | 0.17 | 32.2 |
| 4/24/2015 2:24:50 | 37.07 | 34.77 | 595 | 2.01 | 0.17 | 32.5 |
| 4/24/2015 2:24:50 | 37.40 | 35.10 | 593 | 2.02 | 0.17 | 32.4 |
| 4/24/2015 2:24:51 | 37.73 | 35.43 | 590 | 2.02 | 0.18 | 32.3 |
| 4/24/2015 2:24:51 | 38.06 | 35.76 | 593 | 2.00 | 0.17 | 32.4 |
| 4/24/2015 2:24:52 | 38.39 | 36.09 | 586 | 2.01 | 0.18 | 32.1 |
| 4/24/2015 2:24:53 | 38.71 | 36.41 | 590 | 2.02 | 0.17 | 32.2 |
| 4/24/2015 2:24:54 | 39.04 | 36.74 | 587 | 2.01 | 0.18 | 32.1 |
| 4/24/2015 2:24:54 | 39.37 | 37.07 | 572 | 2.02 | 0.17 | 31.3 |
| 4/24/2015 2:24:55 | 39.70 | 37.40 | 572 | 2.02 | 0.18 | 31.3 |
| 4/24/2015 2:24:55 | 40.03 | 37.73 | 586 | 2.02 | 0.18 | 32.0 |
| 4/24/2015 2:24:56 | 40.35 | 38.05 | 583 | 2.01 | 0.17 | 31.9 |
| 4/24/2015 2:24:57 | 40.68 | 38.38 | 585 | 2.01 | 0.17 | 32.0 |
| 4/24/2015 2:24:57 | 41.01 | 38.71 | 600 | 2.01 | 0.18 | 32.8 |
| 4/24/2015 2:24:58 | 41.34 | 39.04 | 590 | 2.00 | 0.18 | 32.2 |
| 4/24/2015 2:24:58 | 41.67 | 39.37 | 590 | 2.00 | 0.19 | 32.2 |
| 4/24/2015 2:24:59 | 41.99 | 39.69 | 593 | 2.02 | 0.18 | 32.4 |
| 4/24/2015 2:24:59 | 42.32 | 40.02 | 590 | 1.99 | 0.18 | 32.2 |
| 4/24/2015 2:25:00 | 42.65 | 40.35 | 589 | 2.01 | 0.17 | 32.2 |
| 4/24/2015 2:25:01 | 42.98 | 40.68 | 593 | 2.02 | 0.18 | 32.4 |
| 4/24/2015 2:25:01 | 43.31 | 41.01 | 587 | 2.00 | 0.17 | 32.1 |
| 4/24/2015 2:25:02 | 43.64 | 41.34 | 590 | 2.03 | 0.18 | 32.2 |
| 4/24/2015 2:25:03 | 43.96 | 41.66 | 590 | 2.02 | 0.18 | 32.2 |
| 4/24/2015 2:25:03 | 44.29 | 41.99 | 593 | 1.98 | 0.18 | 32.4 |
| 4/24/2015 2:25:04 | 44.62 | 42.32 | 593 | 2.01 | 0.17 | 32.4 |
| 4/24/2015 2:25:05 | 44.95 | 42.65 | 593 | 2.02 | 0.18 | 32.4 |
| 4/24/2015 2:25:05 | 45.28 | 42.98 | 593 | 1.98 | 0.18 | 32.4 |
| 4/24/2015 2:25:06 | 45.60 | 43.30 | 586 | 2.01 | 0.18 | 32.1 |
| 4/24/2015 2:25:06 | 45.93 | 43.63 | 590 | 2.00 | 0.18 | 32.2 |
| 4/24/2015 2:25:07 | 46.26 | 43.96 | 590 | 2.00 | 0.18 | 32.2 |
| 4/24/2015 2:25:07 | 46.59 | 44.29 | 583 | 2.01 | 0.19 | 31.9 |
| 4/24/2015 2:25:08 | 46.92 | 44.62 | 593 | 2.00 | 0.18 | 32.4 |
| 4/24/2015 2:25:09 | 47.24 | 44.94 | 590 | 2.01 | 0.18 | 32.3 |
| 4/24/2015 2:25:09 | 47.57 | 45.27 | 593 | 2.00 | 0.18 | 32.4 |
| 4/24/2015 2:25:10 | 47.90 | 45.60 | 547 | 2.02 | 0.18 | 29.9 |
| 4/24/2015 2:25:58 | 48.23 | 45.93 | 35 | 2.03 | 1.10 | 1.9 |
| 4/24/2015 2:26:00 | 48.56 | 46.26 | 268 | 2.04 | 1.25 | 14.6 |
| 4/24/2015 2:26:01 | 48.88 | 46.58 | 243 | 2.02 | 1.26 | 13.3 |
| 4/24/2015 2:26:08 | 49.21 | 46.91 | 37 | 1.98 | 1.21 | 2.0 |
| 4/24/2015 2:26:18 | 49.54 | 47.24 | 6 | 2.03 | 1.21 | 0.3 |
| 4/24/2015 2:26:19 | 49.87 | 47.57 | 63 | 2.00 | 1.19 | 3.5 |
| 4/24/2015 2:26:31 | 50.20 | 47.90 | 0 | 2.02 | 1.24 | 0.0 |
| 4/24/2015 2:26:33 | 50.53 | 48.23 | 136 | 2.00 | 1.22 | 7.4 |
| 4/24/2015 2:26:34 | 50.85 | 48.55 | 190 | 2.02 | 1.45 | 10.4 |
| 4/24/2015 2:26:55 | 51.18 | 48.88 | 76 | 2.00 | 1.13 | 4.1 |
| 4/24/2015 2:26:56 | 51.51 | 49.21 | 246 | 2.00 | 1.17 | 13.5 |
| 4/24/2015 2:26:57 | 51.84 | 49.54 | 286 | 1.99 | 1.20 | 15.6 |
| 4/24/2015 2:26:58 | 52.17 | 49.87 | 324 | 2.01 | 1.20 | 17.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 2:26:59 | 52.49 | 50.19 | 347 | 2.00 | 1.12 | 19.0 |
| 4/24/2015 | 2:27:47 | 52.82 | 50.52 | 98 | 2.02 | 1.28 | 5.4 |
| 4/24/2015 | 2:27:48 | 53.15 | 50.85 | 250 | 2.00 | 1.01 | 13.7 |
| 4/24/2015 | 2:27:48 | 53.48 | 51.18 | 344 | 2.02 | 1.08 | 18.8 |
| 4/24/2015 | 2:28:06 | 53.81 | 51.51 | 97 | 2.01 | 1.14 | 5.3 |
| 4/24/2015 | 2:28:08 | 54.13 | 51.83 | 235 | 2.01 | 1.24 | 12.9 |
| 4/24/2015 | 2:28:09 | 54.46 | 52.16 | 230 | 2.02 | 1.41 | 12.6 |
| 4/24/2015 | 2:28:12 | 54.79 | 52.49 | 170 | 1.98 | 1.56 | 9.3 |
| 4/24/2015 | 2:28:15 | 55.12 | 52.82 | 84 | 2.03 | 1.25 | 4.6 |
| 4/24/2015 | 2:28:16 | 55.45 | 53.15 | 219 | 2.03 | 1.29 | 12.0 |
| 4/24/2015 | 2:28:18 | 55.77 | 53.47 | 211 | 1.99 | 1.17 | 11.5 |
| 4/24/2015 | 2:28:20 | 56.10 | 53.80 | 173 | 1.98 | 1.26 | 9.4 |
| 4/24/2015 | 2:28:22 | 56.43 | 54.13 | 210 | 2.02 | 1.15 | 11.5 |
| 4/24/2015 | 2:28:23 | 56.76 | 54.46 | 231 | 2.03 | 1.25 | 12.6 |
| 4/24/2015 | 2:28:33 | 57.09 | 54.79 | 23 | 2.02 | 1.14 | 1.3 |

## H333 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 2:22:31

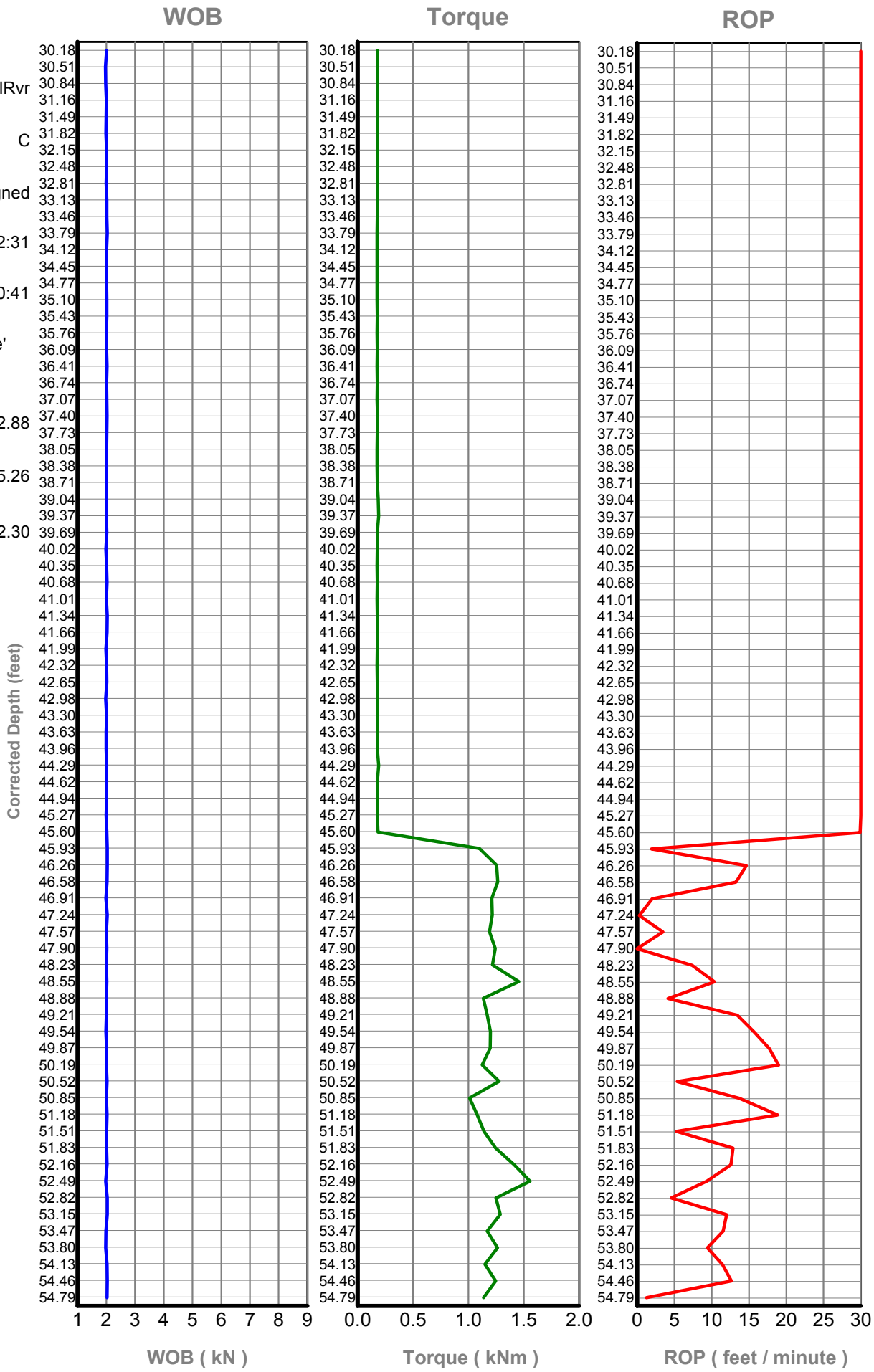
**End Date:**
4/24/2015 2:30:41

**Operator Note:**
'2.3 2.1 c Auto Complete'

**Northing:**
366,972.88

**Easting:**
251,545.26

**Tide (feet):**
2.30



## Hole: H334 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 16:09:32 | 35.11 | 30.31 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 16:09:32 | 35.43 | 30.63 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 16:09:32 | 35.76 | 30.96 | 981 | 0.25 | 0.32 | 53.6 |
| 4/23/2015 16:09:33 | 36.09 | 31.29 | 979 | 0.33 | 0.32 | 53.5 |
| 4/23/2015 16:09:33 | 36.42 | 31.62 | 979 | 0.33 | 0.32 | 53.5 |
| 4/23/2015 16:09:33 | 36.75 | 31.95 | 965 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 16:09:34 | 37.07 | 32.27 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 16:09:34 | 37.40 | 32.60 | 948 | 0.36 | 0.32 | 51.8 |
| 4/23/2015 16:09:35 | 37.73 | 32.93 | 948 | 0.36 | 0.32 | 51.8 |
| 4/23/2015 16:09:35 | 38.06 | 33.26 | 921 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 16:09:35 | 38.39 | 33.59 | 930 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 16:09:36 | 38.71 | 33.91 | 939 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:36 | 39.04 | 34.24 | 939 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:36 | 39.37 | 34.57 | 937 | 0.33 | 0.33 | 51.2 |
| 4/23/2015 16:09:37 | 39.70 | 34.90 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 16:09:37 | 40.03 | 35.23 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 16:09:37 | 40.35 | 35.55 | 944 | 0.33 | 0.33 | 51.6 |
| 4/23/2015 16:09:38 | 40.68 | 35.88 | 976 | 0.33 | 0.32 | 53.4 |
| 4/23/2015 16:09:38 | 41.01 | 36.21 | 976 | 0.33 | 0.32 | 53.4 |
| 4/23/2015 16:09:39 | 41.34 | 36.54 | 976 | 0.33 | 0.32 | 53.4 |
| 4/23/2015 16:09:39 | 41.67 | 36.87 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 16:09:39 | 41.99 | 37.19 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 16:09:40 | 42.32 | 37.52 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 16:09:40 | 42.65 | 37.85 | 955 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 16:09:40 | 42.98 | 38.18 | 955 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 16:09:41 | 43.31 | 38.51 | 963 | 0.33 | 0.33 | 52.7 |
| 4/23/2015 16:09:42 | 43.64 | 38.84 | 963 | 0.33 | 0.33 | 52.7 |
| 4/23/2015 16:09:42 | 43.96 | 39.16 | 937 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:42 | 44.29 | 39.49 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 16:09:43 | 44.62 | 39.82 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 16:09:43 | 44.95 | 40.15 | 945 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 16:09:43 | 45.28 | 40.48 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 16:09:44 | 45.60 | 40.80 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:44 | 45.93 | 41.13 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:44 | 46.26 | 41.46 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 16:09:45 | 46.59 | 41.79 | 970 | 0.33 | 0.32 | 53.1 |
| 4/23/2015 16:09:45 | 46.92 | 42.12 | 970 | 0.33 | 0.32 | 53.1 |
| 4/23/2015 16:09:45 | 47.24 | 42.44 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 16:09:46 | 47.57 | 42.77 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 16:09:46 | 47.90 | 43.10 | 951 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 16:09:47 | 48.23 | 43.43 | 951 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 16:09:47 | 48.56 | 43.76 | 952 | 0.34 | 0.32 | 52.1 |
| 4/23/2015 16:09:47 | 48.88 | 44.08 | 928 | 0.33 | 0.33 | 50.8 |
| 4/23/2015 16:09:48 | 49.21 | 44.41 | 928 | 0.33 | 0.33 | 50.8 |
| 4/23/2015 16:09:48 | 49.54 | 44.74 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 16:09:48 | 49.87 | 45.07 | 930 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 16:09:56 | 50.20 | 45.40 | 0 | 2.36 | 0.34 | 0.0 |
| 4/23/2015 16:09:58 | 50.53 | 45.73 | 165 | 3.94 | 0.39 | 9.0 |
| 4/23/2015 16:10:00 | 50.85 | 46.05 | 123 | 4.19 | 0.37 | 6.7 |
| 4/23/2015 16:10:01 | 51.18 | 46.38 | 245 | 5.06 | 0.38 | 13.4 |
| 4/23/2015 16:10:02 | 51.51 | 46.71 | 297 | 5.91 | 0.37 | 16.2 |
| 4/23/2015 16:10:03 | 51.84 | 47.04 | 361 | 3.84 | 0.37 | 19.7 |
| 4/23/2015 16:10:04 | 52.17 | 47.37 | 374 | 3.25 | 0.37 | 20.4 |
| 4/23/2015 16:10:05 | 52.49 | 47.69 | 372 | 3.61 | 0.37 | 20.3 |
| 4/23/2015 16:10:06 | 52.82 | 48.02 | 367 | 3.63 | 0.37 | 20.1 |
| 4/23/2015 16:10:07 | 53.15 | 48.35 | 350 | 4.13 | 0.38 | 19.1 |
| 4/23/2015 16:10:08 | 53.48 | 48.68 | 309 | 3.62 | 0.38 | 16.9 |
| 4/23/2015 16:10:09 | 53.81 | 49.01 | 315 | 3.69 | 0.36 | 17.2 |
| 4/23/2015 16:10:10 | 54.13 | 49.33 | 341 | 2.88 | 0.36 | 18.7 |
| 4/23/2015 16:10:11 | 54.46 | 49.66 | 425 | 3.48 | 0.37 | 23.3 |
| 4/23/2015 16:10:12 | 54.79 | 49.99 | 441 | 3.79 | 0.38 | 24.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 16:10:13 | 55.12 | 50.32 | 404 | 4.79 | 0.38 | 22.1 |
| 4/23/2015 | 16:10:15 | 55.45 | 50.65 | 292 | 4.70 | 0.39 | 16.0 |
| 4/23/2015 | 16:10:16 | 55.77 | 50.97 | 240 | 8.33 | 0.39 | 13.1 |
| 4/23/2015 | 16:10:41 | 56.10 | 51.30 | 38 | 3.94 | 0.38 | 2.1 |
| 4/23/2015 | 16:10:42 | 56.43 | 51.63 | 181 | 3.36 | 0.39 | 9.9 |
| 4/23/2015 | 16:10:46 | 56.76 | 51.96 | 138 | 3.41 | 0.39 | 7.5 |
| 4/23/2015 | 16:10:49 | 57.09 | 52.29 | 110 | 3.54 | 0.40 | 6.0 |
| 4/23/2015 | 16:10:52 | 57.41 | 52.61 | 95 | 3.54 | 0.40 | 5.2 |
| 4/23/2015 | 16:10:57 | 57.74 | 52.94 | 92 | 3.74 | 0.40 | 5.0 |
| 4/23/2015 | 16:11:19 | 58.07 | 53.27 | 3 | 4.12 | 0.38 | 0.2 |
| 4/23/2015 | 16:20:26 | 58.40 | 53.60 | 0 | 4.56 | 0.38 | 0.0 |
| 4/23/2015 | 16:21:31 | 58.73 | 53.93 | 26 | 6.35 | 0.40 | 1.4 |
| 4/23/2015 | 16:22:16 | 59.06 | 54.26 | 31 | 5.44 | 0.33 | 1.7 |
| 4/23/2015 | 16:22:37 | 59.38 | 54.58 | 25 | 5.90 | 0.39 | 1.3 |
| 4/23/2015 | 16:23:00 | 59.71 | 54.91 | 0 | 4.65 | 0.38 | 0.0 |
| 4/23/2015 | 16:23:06 | 60.04 | 55.24 | 14 | 5.92 | 0.40 | 0.8 |
| 4/23/2015 | 16:27:20 | 60.37 | 55.57 | 21 | 4.24 | 0.40 | 1.2 |
| 4/23/2015 | 16:53:27 | 60.70 | 55.90 | 0 | 0.34 | 0.35 | 0.0 |
| 4/23/2015 | 16:53:28 | 61.02 | 56.22 | 75 | 0.35 | 0.35 | 4.1 |
| 4/23/2015 | 16:53:28 | 61.35 | 56.55 | 75 | 0.34 | 0.35 | 4.1 |
| 4/23/2015 | 16:53:29 | 61.68 | 56.88 | 225 | 0.35 | 0.34 | 12.3 |
| 4/23/2015 | 16:53:29 | 62.01 | 57.21 | 350 | 0.34 | 0.35 | 19.2 |
| 4/23/2015 | 16:53:30 | 62.34 | 57.54 | 350 | 0.34 | 0.35 | 19.2 |
| 4/23/2015 | 16:53:30 | 62.66 | 57.86 | 498 | 0.35 | 0.34 | 27.2 |
| 4/23/2015 | 16:53:31 | 62.99 | 58.19 | 631 | 0.35 | 0.34 | 34.5 |
| 4/23/2015 | 16:53:31 | 63.32 | 58.52 | 689 | 0.35 | 0.35 | 37.7 |
| 4/23/2015 | 16:53:32 | 63.65 | 58.85 | 689 | 0.35 | 0.35 | 37.7 |
| 4/23/2015 | 16:53:32 | 63.98 | 59.18 | 685 | 0.35 | 0.36 | 37.5 |
| 4/23/2015 | 16:53:33 | 64.30 | 59.50 | 696 | 0.34 | 0.35 | 38.1 |
| 4/23/2015 | 16:53:33 | 64.63 | 59.83 | 688 | 0.35 | 0.35 | 37.6 |
| 4/23/2015 | 16:53:34 | 64.96 | 60.16 | 691 | 0.35 | 0.35 | 37.8 |
| 4/23/2015 | 16:53:34 | 65.29 | 60.49 | 695 | 0.35 | 0.35 | 38.0 |
| 4/23/2015 | 16:53:35 | 65.62 | 60.82 | 691 | 0.35 | 0.34 | 37.8 |
| 4/23/2015 | 16:53:45 | 65.95 | 61.15 | 41 | 0.34 | 0.36 | 2.3 |
| 4/23/2015 | 16:53:45 | 66.27 | 61.47 | 135 | 0.34 | 0.37 | 7.4 |
| 4/23/2015 | 16:53:47 | 66.60 | 61.80 | 327 | 0.34 | 0.36 | 17.9 |
| 4/23/2015 | 16:53:47 | 66.93 | 62.13 | 427 | 0.34 | 0.36 | 23.3 |
| 4/23/2015 | 16:53:48 | 67.26 | 62.46 | 483 | 0.33 | 0.37 | 26.4 |
| 4/23/2015 | 16:53:50 | 67.59 | 62.79 | 317 | 0.33 | 0.40 | 17.4 |
| 4/23/2015 | 16:58:17 | 67.66 | 62.86 | 0 | 0.31 | 0.36 | 0.0 |

## H334 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 16:07:35

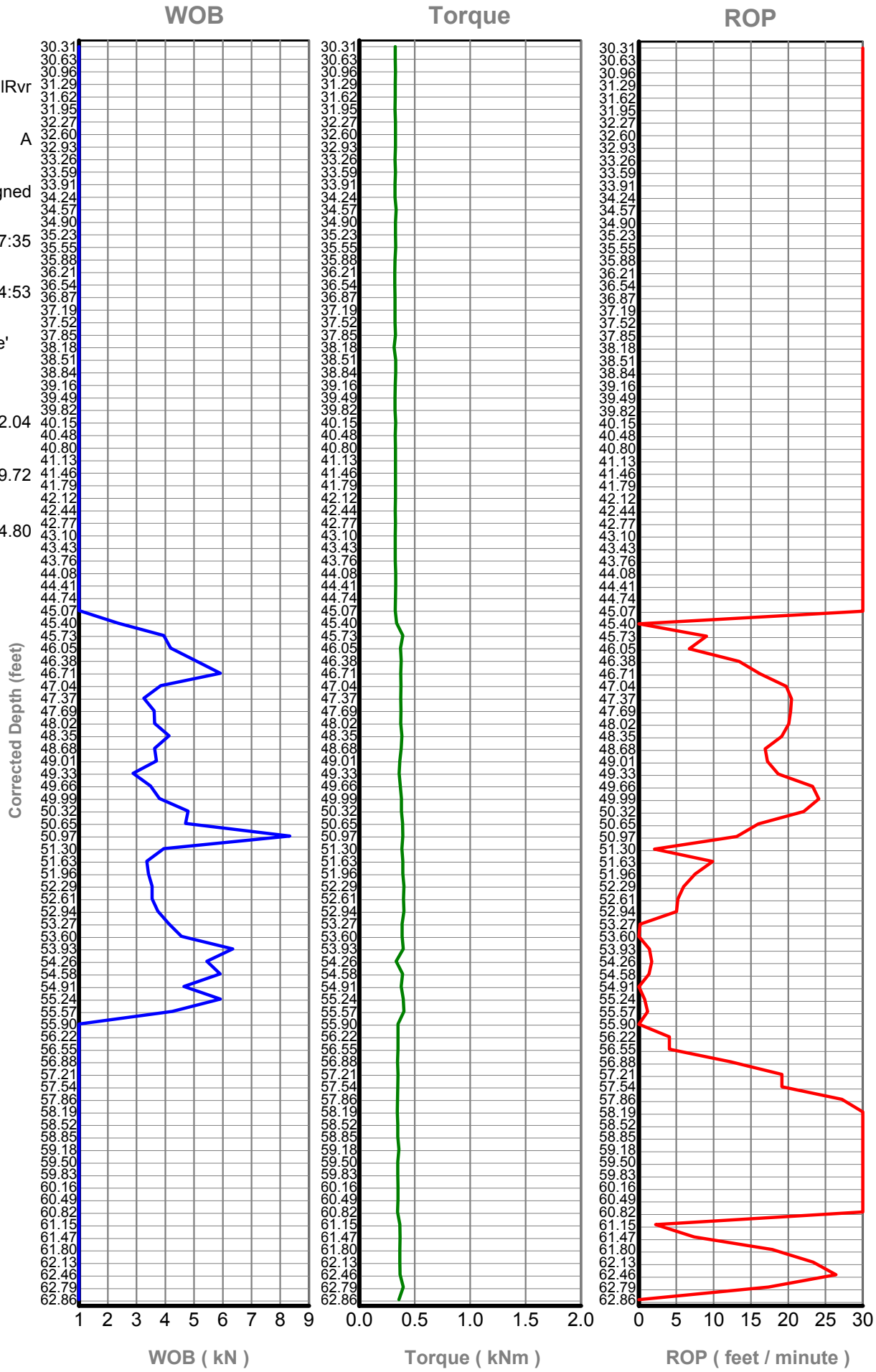
**End Date:**
4/23/2015 17:54:53

**Operator Note:**
'4.8 4.8 b Auto Complete'

**Northing:**
367,032.04

**Easting:**
251,619.72

**Tide (feet):**
4.80



## Hole: H335 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 18:22:53 | 34.78 | 30.28 | 960 | 0.35 | 0.32 | 52.5 |
| 4/23/2015 18:22:54 | 35.11 | 30.61 | 960 | 0.32 | 0.32 | 52.5 |
| 4/23/2015 18:22:54 | 35.43 | 30.93 | 951 | 0.33 | 0.31 | 52.0 |
| 4/23/2015 18:22:55 | 35.76 | 31.26 | 951 | 0.33 | 0.31 | 52.0 |
| 4/23/2015 18:22:55 | 36.09 | 31.59 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 18:22:55 | 36.42 | 31.92 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 18:22:56 | 36.75 | 32.25 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 18:22:56 | 37.07 | 32.57 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 18:22:56 | 37.40 | 32.90 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 18:22:57 | 37.73 | 33.23 | 951 | 0.32 | 0.32 | 52.0 |
| 4/23/2015 18:22:58 | 38.06 | 33.56 | 951 | 0.32 | 0.32 | 52.0 |
| 4/23/2015 18:22:58 | 38.39 | 33.89 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 18:22:58 | 38.71 | 34.21 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 18:22:59 | 39.04 | 34.54 | 954 | 0.32 | 0.29 | 52.2 |
| 4/23/2015 18:22:59 | 39.37 | 34.87 | 954 | 0.32 | 0.29 | 52.2 |
| 4/23/2015 18:22:59 | 39.70 | 35.20 | 957 | 0.31 | 0.32 | 52.3 |
| 4/23/2015 18:23:00 | 40.03 | 35.53 | 957 | 0.33 | 0.31 | 52.3 |
| 4/23/2015 18:23:00 | 40.35 | 35.85 | 957 | 0.33 | 0.31 | 52.3 |
| 4/23/2015 18:23:00 | 40.68 | 36.18 | 965 | 0.32 | 0.32 | 52.8 |
| 4/23/2015 18:23:01 | 41.01 | 36.51 | 965 | 0.32 | 0.32 | 52.8 |
| 4/23/2015 18:23:01 | 41.34 | 36.84 | 963 | 0.33 | 0.31 | 52.6 |
| 4/23/2015 18:23:02 | 41.67 | 37.17 | 963 | 0.33 | 0.31 | 52.6 |
| 4/23/2015 18:23:02 | 41.99 | 37.49 | 949 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 18:23:02 | 42.32 | 37.82 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 18:23:03 | 42.65 | 38.15 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 18:23:03 | 42.98 | 38.48 | 952 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 18:23:03 | 43.31 | 38.81 | 952 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 18:23:04 | 43.64 | 39.14 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 18:23:04 | 43.96 | 39.46 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 18:23:04 | 44.29 | 39.79 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 18:23:05 | 44.62 | 40.12 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 18:23:05 | 44.95 | 40.45 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 18:23:05 | 45.28 | 40.78 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 18:23:06 | 45.60 | 41.10 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 18:23:06 | 45.93 | 41.43 | 978 | 0.33 | 0.32 | 53.5 |
| 4/23/2015 18:23:07 | 46.26 | 41.76 | 978 | 0.33 | 0.32 | 53.5 |
| 4/23/2015 18:23:07 | 46.59 | 42.09 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 18:23:08 | 46.92 | 42.42 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 18:23:08 | 47.24 | 42.74 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 18:23:09 | 47.57 | 43.07 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 18:23:09 | 47.90 | 43.40 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 18:23:09 | 48.23 | 43.73 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 18:23:10 | 48.56 | 44.06 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 18:23:10 | 48.88 | 44.38 | 948 | 0.33 | 0.31 | 51.8 |
| 4/23/2015 18:23:10 | 49.21 | 44.71 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 18:23:11 | 49.54 | 45.04 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 18:23:11 | 49.87 | 45.37 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 18:23:11 | 50.20 | 45.70 | 948 | 0.32 | 0.34 | 51.9 |
| 4/23/2015 18:23:36 | 50.53 | 46.03 | 0 | 2.78 | 0.36 | 0.0 |
| 4/23/2015 18:23:40 | 50.85 | 46.35 | 78 | 4.83 | 0.43 | 4.2 |
| 4/23/2015 18:23:43 | 51.18 | 46.68 | 106 | 4.47 | 0.37 | 5.8 |
| 4/23/2015 18:23:50 | 51.51 | 47.01 | 64 | 3.98 | 0.39 | 3.5 |
| 4/23/2015 18:23:59 | 51.84 | 47.34 | 15 | 4.97 | 0.38 | 0.8 |
| 4/23/2015 18:24:01 | 52.17 | 47.67 | 159 | 4.14 | 0.38 | 8.7 |
| 4/23/2015 18:24:07 | 52.49 | 47.99 | 96 | 4.05 | 0.37 | 5.3 |
| 4/23/2015 18:24:09 | 52.82 | 48.32 | 249 | 4.47 | 0.38 | 13.6 |
| 4/23/2015 18:24:10 | 53.15 | 48.65 | 269 | 3.58 | 0.37 | 14.7 |
| 4/23/2015 18:25:57 | 53.48 | 48.98 | 0 | 3.07 | 0.38 | 0.0 |
| 4/23/2015 18:26:00 | 53.81 | 49.31 | 105 | 3.43 | 0.39 | 5.7 |
| 4/23/2015 18:26:04 | 54.13 | 49.63 | 78 | 3.84 | 0.38 | 4.2 |
| 4/23/2015 18:26:08 | 54.46 | 49.96 | 95 | 4.02 | 0.39 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 18:26:12 | 54.79 | 50.29 | 83 | 4.09 | 0.39 | 4.5 |
| 4/23/2015 | 18:26:17 | 55.12 | 50.62 | 79 | 3.93 | 0.39 | 4.3 |
| 4/23/2015 | 18:27:22 | 55.45 | 50.95 | 77 | 4.19 | 0.39 | 4.2 |
| 4/23/2015 | 18:27:27 | 55.77 | 51.27 | 75 | 3.65 | 0.39 | 4.1 |
| 4/23/2015 | 18:27:31 | 56.10 | 51.60 | 96 | 3.09 | 0.38 | 5.2 |
| 4/23/2015 | 18:28:23 | 56.43 | 51.93 | 101 | 3.18 | 0.39 | 5.5 |
| 4/23/2015 | 18:28:27 | 56.76 | 52.26 | 79 | 3.37 | 0.39 | 4.3 |
| 4/23/2015 | 18:28:32 | 57.09 | 52.59 | 84 | 3.52 | 0.39 | 4.6 |
| 4/23/2015 | 18:28:37 | 57.41 | 52.91 | 69 | 3.32 | 0.39 | 3.8 |
| 4/23/2015 | 18:28:43 | 57.74 | 53.24 | 64 | 3.35 | 0.39 | 3.5 |
| 4/23/2015 | 18:28:49 | 58.07 | 53.57 | 61 | 3.37 | 0.39 | 3.3 |
| 4/23/2015 | 18:28:54 | 58.40 | 53.90 | 69 | 3.33 | 0.39 | 3.8 |
| 4/23/2015 | 18:28:54 | 58.46 | 53.96 | 72 | 3.81 | 0.39 | 3.9 |

## H335 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 18:21:30

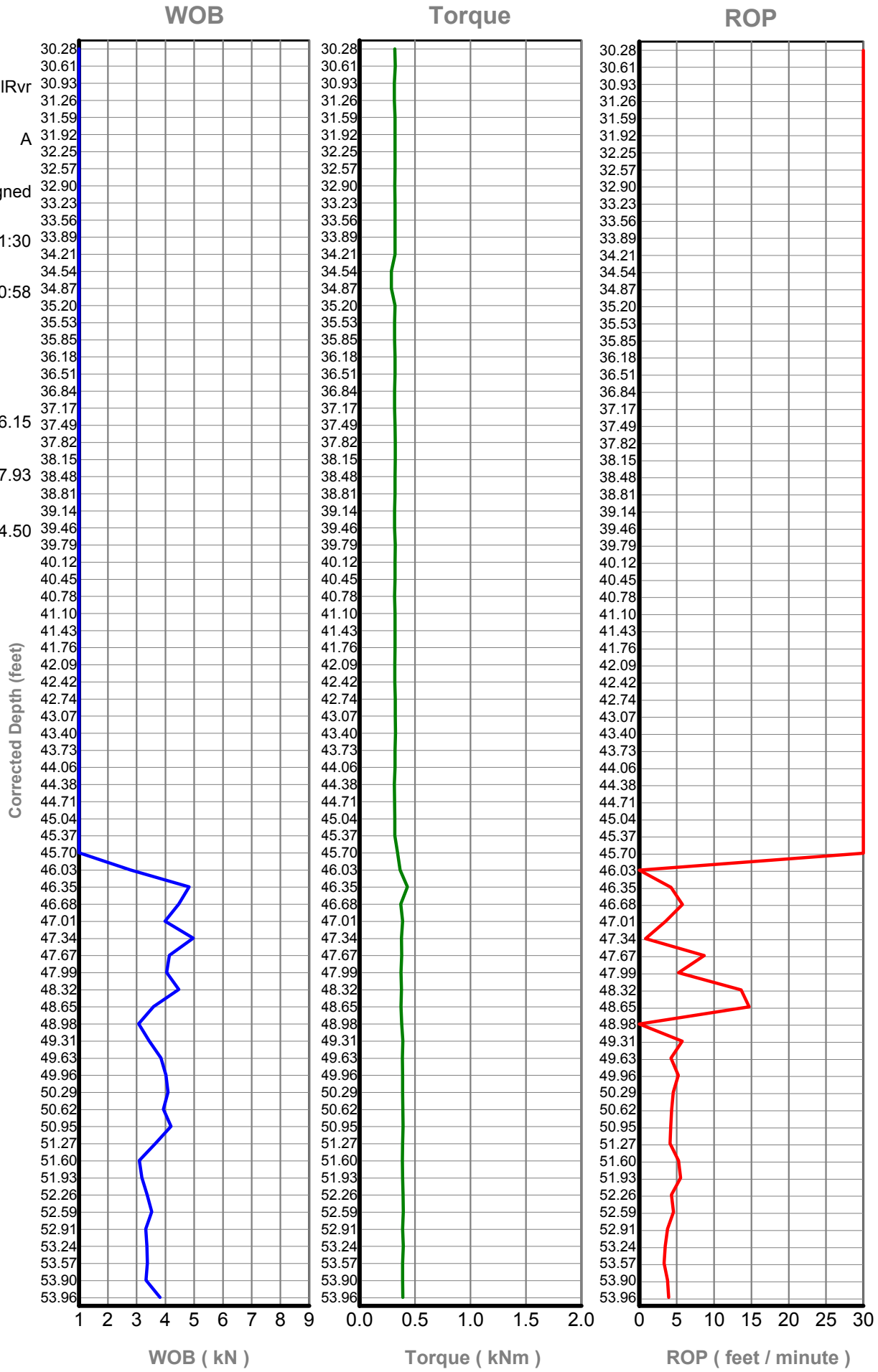
**End Date:**
4/23/2015 18:30:58

**Operator Note:**
'4.5 '4.8 4.5 Rock'

**Northing:**
367,066.15

**Easting:**
251,667.93

**Tide (feet):**
4.50



## Hole: H336 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 16:11:00 | 35.11 | 30.21 | 707 | 1.96 | 0.32 | 38.7 |
| 4/23/2015 16:11:01 | 35.43 | 30.53 | 691 | 1.96 | 0.31 | 37.8 |
| 4/23/2015 16:11:01 | 35.76 | 30.86 | 691 | 1.97 | 0.31 | 37.8 |
| 4/23/2015 16:11:02 | 36.09 | 31.19 | 691 | 1.95 | 0.31 | 37.8 |
| 4/23/2015 16:11:02 | 36.42 | 31.52 | 701 | 1.97 | 0.31 | 38.3 |
| 4/23/2015 16:11:03 | 36.75 | 31.85 | 692 | 1.97 | 0.31 | 37.9 |
| 4/23/2015 16:11:03 | 37.07 | 32.17 | 688 | 1.96 | 0.31 | 37.6 |
| 4/23/2015 16:11:04 | 37.40 | 32.50 | 692 | 1.95 | 0.31 | 37.9 |
| 4/23/2015 16:11:04 | 37.73 | 32.83 | 704 | 1.96 | 0.31 | 38.5 |
| 4/23/2015 16:11:05 | 38.06 | 33.16 | 697 | 1.98 | 0.31 | 38.1 |
| 4/23/2015 16:11:05 | 38.39 | 33.49 | 697 | 1.96 | 0.31 | 38.1 |
| 4/23/2015 16:11:06 | 38.71 | 33.81 | 694 | 1.96 | 0.31 | 37.9 |
| 4/23/2015 16:11:06 | 39.04 | 34.14 | 694 | 1.96 | 0.31 | 37.9 |
| 4/23/2015 16:11:07 | 39.37 | 34.47 | 694 | 1.97 | 0.31 | 37.9 |
| 4/23/2015 16:11:07 | 39.70 | 34.80 | 678 | 1.95 | 0.31 | 37.1 |
| 4/23/2015 16:11:08 | 40.03 | 35.13 | 678 | 1.96 | 0.31 | 37.1 |
| 4/23/2015 16:11:09 | 40.35 | 35.45 | 683 | 1.98 | 0.31 | 37.3 |
| 4/23/2015 16:11:09 | 40.68 | 35.78 | 683 | 1.97 | 0.31 | 37.3 |
| 4/23/2015 16:11:10 | 41.01 | 36.11 | 689 | 1.96 | 0.31 | 37.7 |
| 4/23/2015 16:11:10 | 41.34 | 36.44 | 685 | 1.98 | 0.31 | 37.4 |
| 4/23/2015 16:11:11 | 41.67 | 36.77 | 692 | 1.98 | 0.31 | 37.8 |
| 4/23/2015 16:11:11 | 41.99 | 37.09 | 700 | 1.96 | 0.31 | 38.3 |
| 4/23/2015 16:11:12 | 42.32 | 37.42 | 700 | 1.98 | 0.31 | 38.3 |
| 4/23/2015 16:11:12 | 42.65 | 37.75 | 691 | 1.96 | 0.31 | 37.8 |
| 4/23/2015 16:11:13 | 42.98 | 38.08 | 694 | 1.96 | 0.31 | 37.9 |
| 4/23/2015 16:11:13 | 43.31 | 38.41 | 688 | 1.97 | 0.31 | 37.6 |
| 4/23/2015 16:11:14 | 43.64 | 38.74 | 691 | 1.97 | 0.31 | 37.8 |
| 4/23/2015 16:11:14 | 43.96 | 39.06 | 687 | 1.98 | 0.31 | 37.5 |
| 4/23/2015 16:11:15 | 44.29 | 39.39 | 694 | 1.97 | 0.31 | 37.9 |
| 4/23/2015 16:11:15 | 44.62 | 39.72 | 688 | 1.97 | 0.31 | 37.6 |
| 4/23/2015 16:11:16 | 44.95 | 40.05 | 691 | 1.95 | 0.31 | 37.8 |
| 4/23/2015 16:11:16 | 45.28 | 40.38 | 688 | 1.96 | 0.31 | 37.6 |
| 4/23/2015 16:11:17 | 45.60 | 40.70 | 688 | 1.96 | 0.31 | 37.6 |
| 4/23/2015 16:11:17 | 45.93 | 41.03 | 688 | 1.97 | 0.31 | 37.6 |
| 4/23/2015 16:11:18 | 46.26 | 41.36 | 691 | 1.98 | 0.31 | 37.8 |
| 4/23/2015 16:11:18 | 46.59 | 41.69 | 687 | 1.98 | 0.31 | 37.5 |
| 4/23/2015 16:11:19 | 46.92 | 42.02 | 694 | 1.97 | 0.31 | 37.9 |
| 4/23/2015 16:11:20 | 47.24 | 42.34 | 691 | 1.98 | 0.31 | 37.8 |
| 4/23/2015 16:11:20 | 47.57 | 42.67 | 691 | 1.97 | 0.31 | 37.8 |
| 4/23/2015 16:11:21 | 47.90 | 43.00 | 688 | 1.98 | 0.31 | 37.6 |
| 4/23/2015 16:11:21 | 48.23 | 43.33 | 688 | 1.99 | 0.31 | 37.6 |
| 4/23/2015 16:11:22 | 48.56 | 43.66 | 688 | 1.95 | 0.31 | 37.6 |
| 4/23/2015 16:11:22 | 48.88 | 43.98 | 688 | 1.98 | 0.31 | 37.6 |
| 4/23/2015 16:11:23 | 49.21 | 44.31 | 684 | 1.98 | 0.31 | 37.4 |
| 4/23/2015 16:11:23 | 49.54 | 44.64 | 691 | 1.98 | 0.30 | 37.8 |
| 4/23/2015 16:11:24 | 49.87 | 44.97 | 691 | 2.00 | 0.31 | 37.8 |
| 4/23/2015 16:11:24 | 50.20 | 45.30 | 685 | 2.00 | 0.31 | 37.5 |
| 4/23/2015 16:11:42 | 50.53 | 45.63 | 103 | 2.00 | 1.27 | 5.6 |
| 4/23/2015 16:11:51 | 50.85 | 45.95 | 39 | 1.99 | 1.23 | 2.1 |
| 4/23/2015 16:11:58 | 51.18 | 46.28 | 60 | 1.99 | 1.26 | 3.3 |
| 4/23/2015 16:12:09 | 51.51 | 46.61 | 23 | 1.98 | 1.17 | 1.3 |
| 4/23/2015 16:12:21 | 51.84 | 46.94 | 32 | 1.99 | 1.22 | 1.7 |
| 4/23/2015 16:12:32 | 52.17 | 47.27 | 29 | 1.99 | 1.22 | 1.6 |
| 4/23/2015 16:12:39 | 52.49 | 47.59 | 61 | 1.97 | 1.08 | 3.4 |
| 4/23/2015 16:12:40 | 52.82 | 47.92 | 143 | 2.00 | 1.21 | 7.8 |
| 4/23/2015 16:12:47 | 53.15 | 48.25 | 60 | 1.99 | 1.21 | 3.3 |
| 4/23/2015 16:12:54 | 53.48 | 48.58 | 43 | 2.00 | 1.18 | 2.4 |
| 4/23/2015 16:13:02 | 53.81 | 48.91 | 43 | 1.99 | 1.25 | 2.4 |
| 4/23/2015 16:13:09 | 54.13 | 49.23 | 49 | 1.98 | 1.20 | 2.7 |
| 4/23/2015 16:13:17 | 54.46 | 49.56 | 47 | 1.99 | 1.21 | 2.6 |
| 4/23/2015 16:13:24 | 54.79 | 49.89 | 52 | 1.99 | 1.24 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 16:13:27 | 54.92 | 50.02 | 49 | 1.99 | 1.40 | 2.7 | |

## H336 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 16:09:22

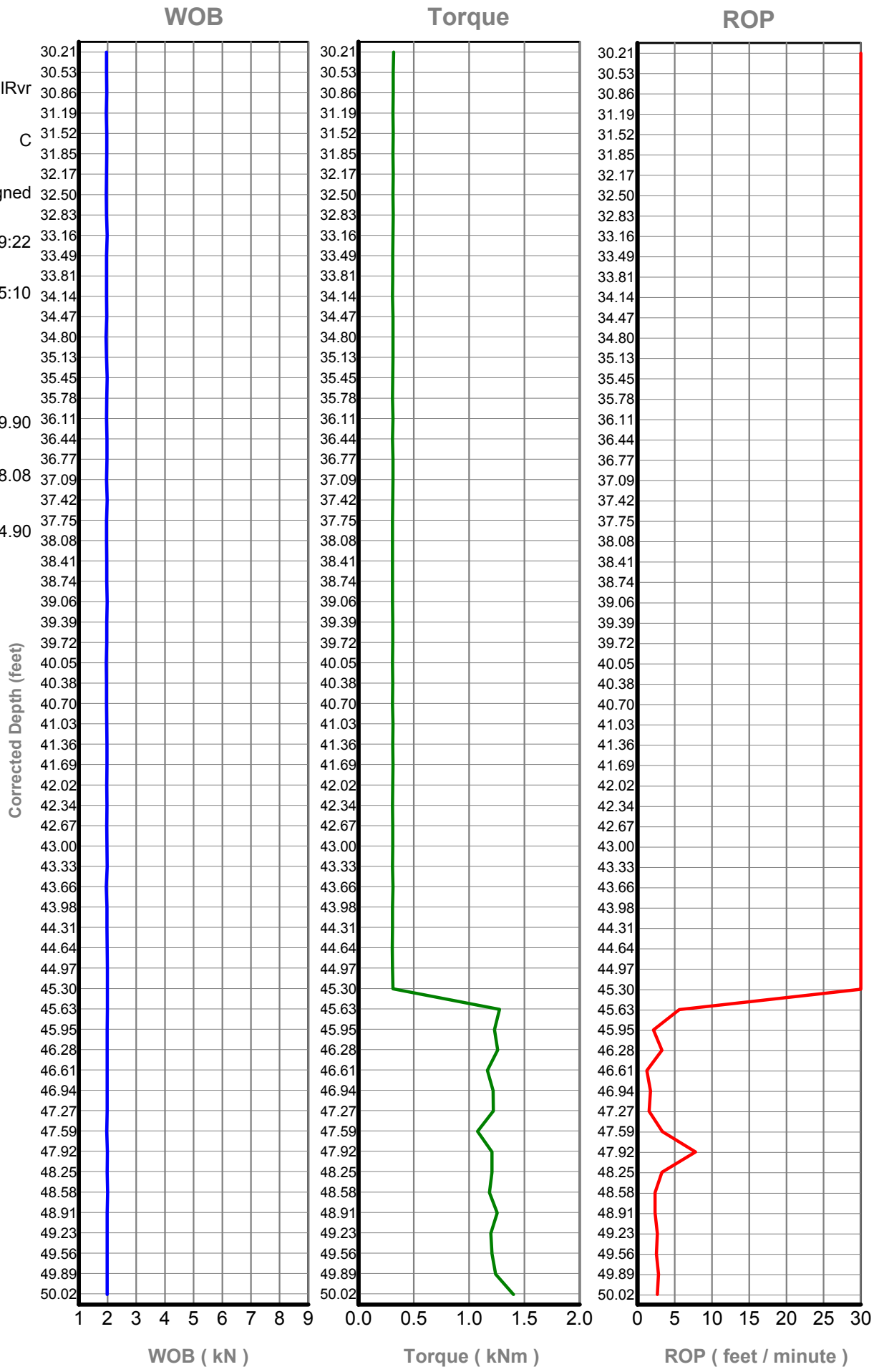
**End Date:**
4/23/2015 16:15:10

**Operator Note:**
'4.9 4.8 C Auto Complete'

**Northing:**
367,109.90

**Easting:**
251,728.08

**Tide (feet):**
4.90



## Hole: H337 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:58:46 | 30.51 | 30.31 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 11:58:46 | 30.84 | 30.64 | 968 | 0.33 | 0.32 | 52.9 |
| 4/23/2015 11:58:47 | 31.17 | 30.97 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 11:58:47 | 31.50 | 31.30 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 11:58:47 | 31.82 | 31.62 | 974 | 0.33 | 0.31 | 53.3 |
| 4/23/2015 11:58:48 | 32.15 | 31.95 | 977 | 0.33 | 0.31 | 53.4 |
| 4/23/2015 11:58:48 | 32.48 | 32.28 | 977 | 0.33 | 0.31 | 53.4 |
| 4/23/2015 11:58:49 | 32.81 | 32.61 | 972 | 0.33 | 0.32 | 53.1 |
| 4/23/2015 11:58:49 | 33.14 | 32.94 | 965 | 0.33 | 0.29 | 52.7 |
| 4/23/2015 11:58:50 | 33.46 | 33.26 | 965 | 0.33 | 0.29 | 52.7 |
| 4/23/2015 11:58:50 | 33.79 | 33.59 | 965 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 11:58:50 | 34.12 | 33.92 | 973 | 0.33 | 0.32 | 53.2 |
| 4/23/2015 11:58:51 | 34.45 | 34.25 | 968 | 0.33 | 0.32 | 52.9 |
| 4/23/2015 11:58:51 | 34.78 | 34.58 | 968 | 0.33 | 0.32 | 52.9 |
| 4/23/2015 11:58:51 | 35.11 | 34.91 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 11:58:52 | 35.43 | 35.23 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 11:58:52 | 35.76 | 35.56 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 11:58:52 | 36.09 | 35.89 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 11:58:53 | 36.42 | 36.22 | 958 | 0.33 | 0.31 | 52.4 |
| 4/23/2015 11:58:53 | 36.75 | 36.55 | 935 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 11:58:54 | 37.07 | 36.87 | 935 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 11:58:54 | 37.40 | 37.20 | 935 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 11:58:54 | 37.73 | 37.53 | 950 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 11:58:55 | 38.06 | 37.86 | 950 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 11:58:55 | 38.39 | 38.19 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 11:58:55 | 38.71 | 38.51 | 968 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 11:58:56 | 39.04 | 38.84 | 968 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 11:58:56 | 39.37 | 39.17 | 973 | 0.33 | 0.31 | 53.2 |
| 4/23/2015 11:58:56 | 39.70 | 39.50 | 964 | 0.35 | 0.31 | 52.7 |
| 4/23/2015 11:58:57 | 40.03 | 39.83 | 964 | 0.33 | 0.31 | 52.7 |
| 4/23/2015 11:58:57 | 40.35 | 40.15 | 964 | 0.33 | 0.31 | 52.7 |
| 4/23/2015 11:58:57 | 40.68 | 40.48 | 965 | 0.33 | 0.31 | 52.8 |
| 4/23/2015 11:58:58 | 41.01 | 40.81 | 974 | 0.33 | 0.32 | 53.2 |
| 4/23/2015 11:58:58 | 41.34 | 41.14 | 974 | 0.33 | 0.32 | 53.2 |
| 4/23/2015 11:58:58 | 41.67 | 41.47 | 965 | 0.33 | 0.31 | 52.8 |
| 4/23/2015 11:58:59 | 41.99 | 41.79 | 959 | 0.33 | 0.31 | 52.4 |
| 4/23/2015 11:59:00 | 42.32 | 42.12 | 964 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 11:59:00 | 42.65 | 42.45 | 964 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 11:59:00 | 42.98 | 42.78 | 964 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 11:59:01 | 43.31 | 43.11 | 959 | 0.33 | 0.31 | 52.4 |
| 4/23/2015 11:59:01 | 43.64 | 43.44 | 959 | 0.33 | 0.31 | 52.4 |
| 4/23/2015 11:59:01 | 43.96 | 43.76 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 11:59:02 | 44.29 | 44.09 | 948 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 11:59:02 | 44.62 | 44.42 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 11:59:03 | 44.95 | 44.75 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 11:59:03 | 45.28 | 45.08 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 11:59:03 | 45.60 | 45.40 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 11:59:04 | 45.93 | 45.73 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 11:59:04 | 46.26 | 46.06 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 11:59:04 | 46.59 | 46.39 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 11:59:05 | 46.92 | 46.72 | 949 | 0.33 | 0.33 | 51.9 |
| 4/23/2015 11:59:05 | 47.24 | 47.04 | 949 | 0.33 | 0.33 | 51.9 |
| 4/23/2015 11:59:18 | 47.57 | 47.37 | 23 | 3.05 | 0.39 | 1.2 |
| 4/23/2015 11:59:30 | 47.90 | 47.70 | 31 | 3.11 | 0.39 | 1.7 |
| 4/23/2015 11:59:40 | 48.23 | 48.03 | 26 | 2.77 | 0.39 | 1.4 |
| 4/23/2015 11:59:45 | 48.37 | 48.17 | 32 | 3.05 | 0.39 | 1.7 |

## H337 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/23/2015 11:57:47

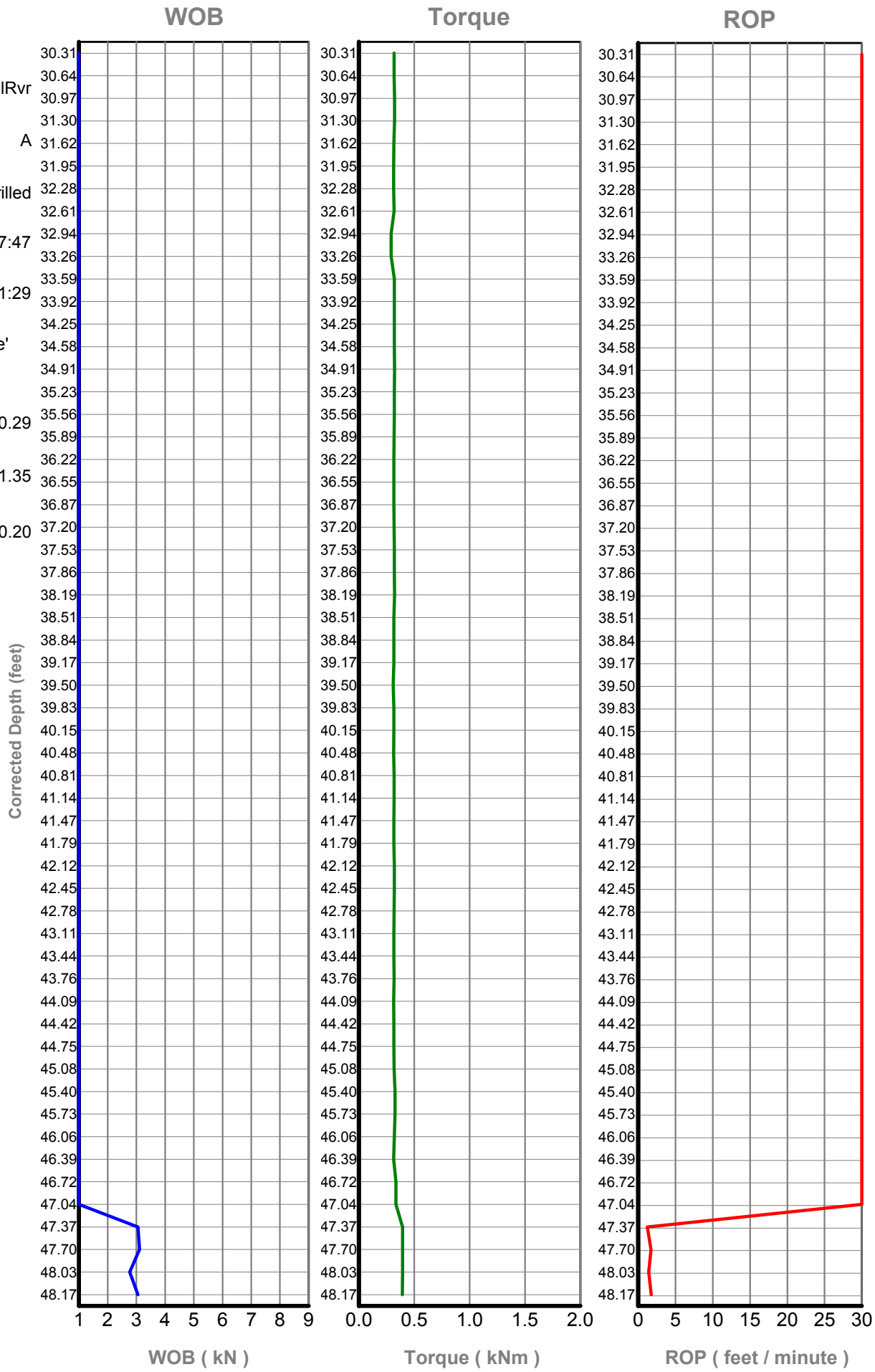
**End Date:**
4/23/2015 12:01:29

**Operator Note:**
'0.2 0.4 b Auto Complete'

**Northing:**
367,170.29

**Easting:**
251,801.35

**Tide (feet):**
0.20



## Hole: H338 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:55:21 | 30.51 | 30.21 | 949 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 11:55:21 | 30.84 | 30.54 | 953 | 0.32 | 0.32 | 52.1 |
| 4/23/2015 11:55:21 | 31.17 | 30.87 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:55:22 | 31.50 | 31.20 | 917 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 11:55:22 | 31.82 | 31.52 | 917 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 11:55:22 | 32.15 | 31.85 | 917 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 11:55:23 | 32.48 | 32.18 | 928 | 0.32 | 0.32 | 50.8 |
| 4/23/2015 11:55:23 | 32.81 | 32.51 | 917 | 0.32 | 0.32 | 50.1 |
| 4/23/2015 11:55:24 | 33.14 | 32.84 | 917 | 0.32 | 0.32 | 50.1 |
| 4/23/2015 11:55:24 | 33.46 | 33.16 | 897 | 0.33 | 0.31 | 49.0 |
| 4/23/2015 11:55:24 | 33.79 | 33.49 | 897 | 0.32 | 0.32 | 49.0 |
| 4/23/2015 11:55:25 | 34.12 | 33.82 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 11:55:25 | 34.45 | 34.15 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 11:55:25 | 34.78 | 34.48 | 913 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 11:55:26 | 35.11 | 34.81 | 913 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 11:55:26 | 35.43 | 35.13 | 913 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 11:55:26 | 35.76 | 35.46 | 887 | 0.32 | 0.31 | 48.5 |
| 4/23/2015 11:55:27 | 36.09 | 35.79 | 887 | 0.32 | 0.32 | 48.5 |
| 4/23/2015 11:55:27 | 36.42 | 36.12 | 898 | 0.32 | 0.32 | 49.1 |
| 4/23/2015 11:55:28 | 36.75 | 36.45 | 898 | 0.32 | 0.32 | 49.1 |
| 4/23/2015 11:55:28 | 37.07 | 36.77 | 924 | 0.32 | 0.31 | 50.5 |
| 4/23/2015 11:55:28 | 37.40 | 37.10 | 924 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 11:55:29 | 37.73 | 37.43 | 905 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 11:55:29 | 38.06 | 37.76 | 905 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 11:55:29 | 38.39 | 38.09 | 930 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 11:55:30 | 38.71 | 38.41 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 11:55:30 | 39.04 | 38.74 | 916 | 0.34 | 0.32 | 50.1 |
| 4/23/2015 11:55:31 | 39.37 | 39.07 | 916 | 0.34 | 0.32 | 50.1 |
| 4/23/2015 11:55:31 | 39.70 | 39.40 | 916 | 0.33 | 0.31 | 50.1 |
| 4/23/2015 11:55:32 | 40.03 | 39.73 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 11:55:32 | 40.35 | 40.05 | 927 | 0.32 | 0.31 | 50.7 |
| 4/23/2015 11:55:33 | 40.68 | 40.38 | 927 | 0.32 | 0.31 | 50.7 |
| 4/23/2015 11:55:33 | 41.01 | 40.71 | 937 | 0.32 | 0.32 | 51.3 |
| 4/23/2015 11:55:33 | 41.34 | 41.04 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 11:55:34 | 41.67 | 41.37 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 11:55:34 | 41.99 | 41.69 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 11:55:34 | 42.32 | 42.02 | 948 | 0.32 | 0.32 | 51.8 |
| 4/23/2015 11:55:35 | 42.65 | 42.35 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:55:35 | 42.98 | 42.68 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:55:35 | 43.31 | 43.01 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 11:55:36 | 43.64 | 43.34 | 915 | 0.32 | 0.32 | 50.0 |
| 4/23/2015 11:55:36 | 43.96 | 43.66 | 932 | 0.32 | 0.32 | 51.0 |
| 4/23/2015 11:55:37 | 44.29 | 43.99 | 932 | 0.32 | 0.32 | 51.0 |
| 4/23/2015 11:55:37 | 44.62 | 44.32 | 907 | 0.32 | 0.32 | 49.6 |
| 4/23/2015 11:55:37 | 44.95 | 44.65 | 925 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 11:55:38 | 45.28 | 44.98 | 919 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 11:55:38 | 45.60 | 45.30 | 919 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 11:55:38 | 45.93 | 45.63 | 919 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 11:55:39 | 46.26 | 45.96 | 936 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 11:55:39 | 46.59 | 46.29 | 930 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:55:40 | 46.92 | 46.62 | 930 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 11:55:40 | 47.24 | 46.94 | 950 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 11:55:40 | 47.57 | 47.27 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 11:55:41 | 47.90 | 47.60 | 944 | 0.32 | 0.32 | 51.6 |
| 4/23/2015 11:55:42 | 48.23 | 47.93 | 944 | 0.32 | 0.32 | 51.6 |
| 4/23/2015 11:55:56 | 48.56 | 48.26 | 45 | 3.56 | 0.39 | 2.5 |
| 4/23/2015 11:56:04 | 48.88 | 48.58 | 46 | 3.13 | 0.39 | 2.5 |
| 4/23/2015 11:56:11 | 49.21 | 48.91 | 46 | 3.00 | 0.39 | 2.5 |
| 4/23/2015 11:56:17 | 49.48 | 49.18 | 46 | 3.26 | 0.39 | 2.5 |

## H338 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:53:11

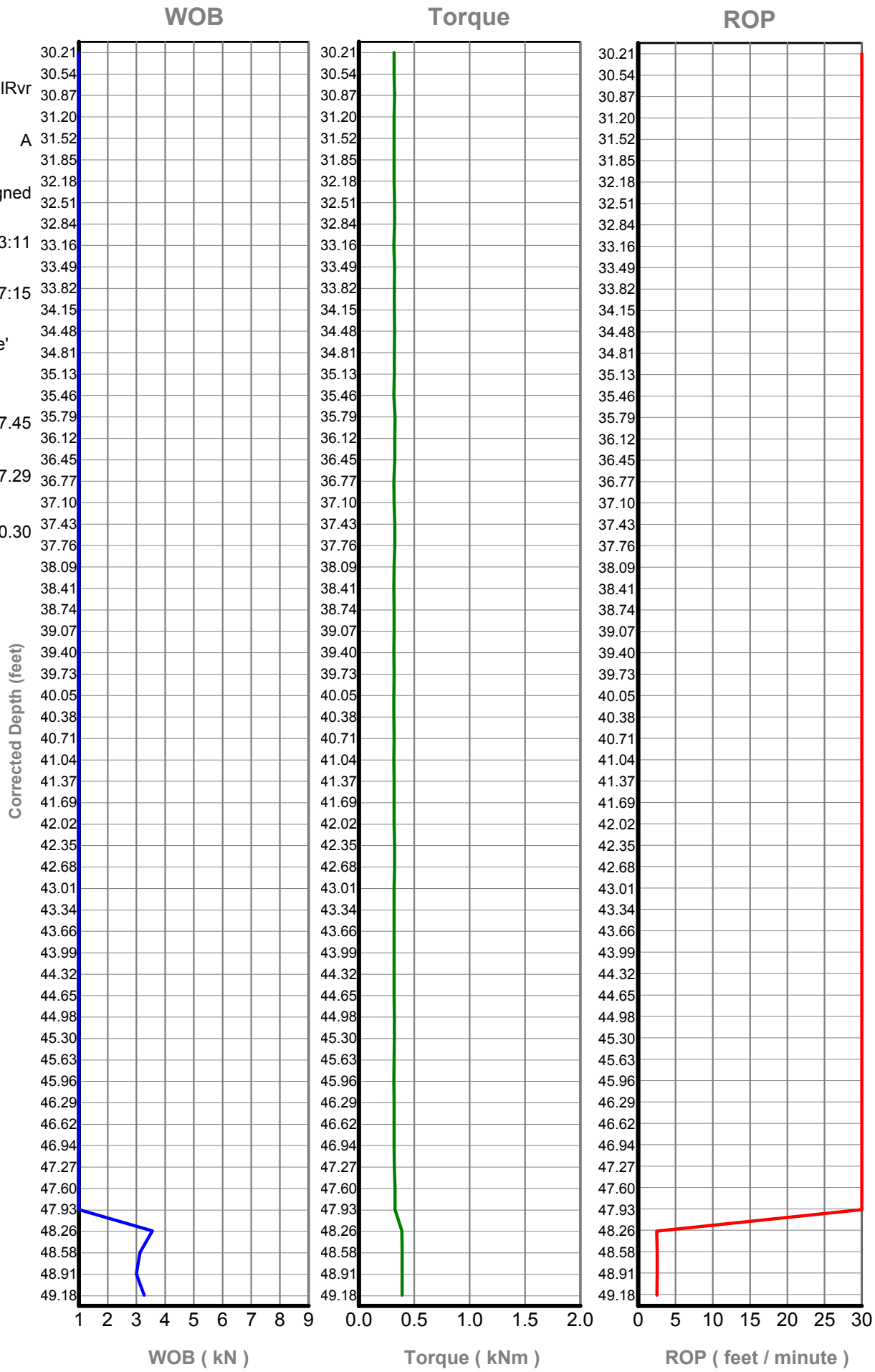
**End Date:**
4/23/2015 11:57:15

**Operator Note:**
'0.3 0.4 b Auto Complete'

**Northing:**
367,207.45

**Easting:**
251,847.29

**Tide (feet):**
0.30



## Hole: H339 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 11:56:22 | 30.51 | 30.21 | 870 | 2.16 | 0.31 | 47.6 |
| 4/23/2015 11:56:22 | 30.84 | 30.54 | 873 | 2.23 | 0.31 | 47.7 |
| 4/23/2015 11:56:22 | 31.17 | 30.87 | 881 | 2.23 | 0.31 | 48.2 |
| 4/23/2015 11:56:23 | 31.50 | 31.20 | 873 | 2.24 | 0.31 | 47.7 |
| 4/23/2015 11:56:24 | 31.82 | 31.52 | 873 | 2.24 | 0.31 | 47.7 |
| 4/23/2015 11:56:24 | 32.15 | 31.85 | 873 | 2.25 | 0.31 | 47.7 |
| 4/23/2015 11:56:24 | 32.48 | 32.18 | 866 | 2.14 | 0.31 | 47.3 |
| 4/23/2015 11:56:25 | 32.81 | 32.51 | 877 | 2.11 | 0.30 | 47.9 |
| 4/23/2015 11:56:25 | 33.14 | 32.84 | 865 | 2.12 | 0.30 | 47.3 |
| 4/23/2015 11:56:26 | 33.46 | 33.16 | 865 | 2.12 | 0.30 | 47.3 |
| 4/23/2015 11:56:26 | 33.79 | 33.49 | 871 | 2.13 | 0.31 | 47.6 |
| 4/23/2015 11:56:26 | 34.12 | 33.82 | 866 | 2.12 | 0.30 | 47.4 |
| 4/23/2015 11:56:27 | 34.45 | 34.15 | 882 | 2.10 | 0.30 | 48.2 |
| 4/23/2015 11:56:27 | 34.78 | 34.48 | 865 | 2.10 | 0.30 | 47.3 |
| 4/23/2015 11:56:28 | 35.11 | 34.81 | 865 | 2.10 | 0.30 | 47.3 |
| 4/23/2015 11:56:28 | 35.43 | 35.13 | 873 | 2.08 | 0.30 | 47.8 |
| 4/23/2015 11:56:28 | 35.76 | 35.46 | 860 | 2.10 | 0.30 | 47.0 |
| 4/23/2015 11:56:29 | 36.09 | 35.79 | 873 | 1.98 | 0.31 | 47.7 |
| 4/23/2015 11:56:29 | 36.42 | 36.12 | 859 | 1.99 | 0.30 | 47.0 |
| 4/23/2015 11:56:30 | 36.75 | 36.45 | 859 | 1.99 | 0.30 | 47.0 |
| 4/23/2015 11:56:30 | 37.07 | 36.77 | 856 | 1.97 | 0.31 | 46.8 |
| 4/23/2015 11:56:30 | 37.40 | 37.10 | 845 | 1.95 | 0.31 | 46.2 |
| 4/23/2015 11:56:31 | 37.73 | 37.43 | 852 | 1.98 | 0.30 | 46.6 |
| 4/23/2015 11:56:31 | 38.06 | 37.76 | 831 | 2.03 | 0.31 | 45.4 |
| 4/23/2015 11:56:32 | 38.39 | 38.09 | 831 | 2.03 | 0.31 | 45.4 |
| 4/23/2015 11:56:32 | 38.71 | 38.41 | 830 | 2.04 | 0.31 | 45.4 |
| 4/23/2015 11:56:32 | 39.04 | 38.74 | 813 | 2.02 | 0.31 | 44.4 |
| 4/23/2015 11:56:33 | 39.37 | 39.07 | 813 | 1.97 | 0.31 | 44.4 |
| 4/23/2015 11:56:33 | 39.70 | 39.40 | 824 | 2.00 | 0.31 | 45.1 |
| 4/23/2015 11:56:34 | 40.03 | 39.73 | 816 | 1.96 | 0.31 | 44.6 |
| 4/23/2015 11:56:35 | 40.35 | 40.05 | 816 | 1.96 | 0.31 | 44.6 |
| 4/23/2015 11:56:35 | 40.68 | 40.38 | 821 | 1.97 | 0.31 | 44.9 |
| 4/23/2015 11:56:35 | 41.01 | 40.71 | 822 | 1.93 | 0.31 | 44.9 |
| 4/23/2015 11:56:36 | 41.34 | 41.04 | 836 | 1.96 | 0.31 | 45.7 |
| 4/23/2015 11:56:36 | 41.67 | 41.37 | 824 | 1.95 | 0.31 | 45.1 |
| 4/23/2015 11:56:37 | 41.99 | 41.69 | 824 | 1.95 | 0.30 | 45.1 |
| 4/23/2015 11:56:37 | 42.32 | 42.02 | 824 | 1.95 | 0.30 | 45.1 |
| 4/23/2015 11:56:37 | 42.65 | 42.35 | 824 | 1.96 | 0.31 | 45.1 |
| 4/23/2015 11:56:38 | 42.98 | 42.68 | 818 | 1.95 | 0.30 | 44.7 |
| 4/23/2015 11:56:38 | 43.31 | 43.01 | 818 | 1.97 | 0.30 | 44.7 |
| 4/23/2015 11:56:39 | 43.64 | 43.34 | 816 | 1.97 | 0.31 | 44.6 |
| 4/23/2015 11:56:39 | 43.96 | 43.66 | 821 | 1.96 | 0.30 | 44.9 |
| 4/23/2015 11:56:40 | 44.29 | 43.99 | 821 | 1.96 | 0.30 | 44.9 |
| 4/23/2015 11:56:40 | 44.62 | 44.32 | 821 | 1.96 | 0.31 | 44.9 |
| 4/23/2015 11:56:40 | 44.95 | 44.65 | 821 | 1.96 | 0.30 | 44.9 |
| 4/23/2015 11:56:41 | 45.28 | 44.98 | 809 | 1.95 | 0.30 | 44.3 |
| 4/23/2015 11:56:41 | 45.60 | 45.30 | 819 | 1.97 | 0.30 | 44.8 |
| 4/23/2015 11:56:42 | 45.93 | 45.63 | 819 | 1.95 | 0.30 | 44.8 |
| 4/23/2015 11:56:42 | 46.26 | 45.96 | 819 | 1.95 | 0.30 | 44.8 |
| 4/23/2015 11:56:42 | 46.59 | 46.29 | 817 | 1.95 | 0.30 | 44.6 |
| 4/23/2015 11:56:43 | 46.92 | 46.62 | 812 | 1.94 | 0.30 | 44.4 |
| 4/23/2015 11:56:43 | 47.24 | 46.94 | 823 | 1.95 | 0.30 | 45.0 |
| 4/23/2015 11:56:44 | 47.57 | 47.27 | 818 | 1.98 | 0.30 | 44.7 |
| 4/23/2015 11:56:45 | 47.90 | 47.60 | 815 | 1.96 | 0.30 | 44.6 |
| 4/23/2015 11:56:45 | 48.23 | 47.93 | 812 | 1.98 | 0.30 | 44.4 |
| 4/23/2015 11:56:46 | 48.56 | 48.26 | 812 | 1.98 | 0.30 | 44.4 |
| 4/23/2015 11:56:46 | 48.88 | 48.58 | 820 | 1.96 | 0.30 | 44.9 |
| 4/23/2015 11:56:59 | 49.21 | 48.91 | 0 | 1.93 | 1.07 | 0.0 |
| 4/23/2015 11:56:59 | 49.54 | 49.24 | 73 | 1.98 | 1.12 | 4.0 |
| 4/23/2015 11:57:00 | 49.87 | 49.57 | 181 | 1.97 | 1.13 | 9.9 |
| 4/23/2015 11:57:01 | 50.20 | 49.90 | 390 | 1.99 | 1.12 | 21.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 11:57:01 | 50.53 | 50.23 | 493 | 1.96 | 1.07 | 27.0 |
| 4/23/2015 | 11:57:02 | 50.85 | 50.55 | 523 | 1.96 | 1.15 | 28.6 |
| 4/23/2015 | 11:57:03 | 51.18 | 50.88 | 510 | 1.98 | 1.11 | 27.9 |
| 4/23/2015 | 11:57:03 | 51.51 | 51.21 | 510 | 1.99 | 1.27 | 27.9 |
| 4/23/2015 | 11:57:10 | 51.84 | 51.54 | 24 | 1.97 | 1.10 | 1.3 |
| 4/23/2015 | 11:57:20 | 52.17 | 51.87 | 37 | 1.99 | 1.20 | 2.0 |
| 4/23/2015 | 11:57:30 | 52.49 | 52.19 | 35 | 2.00 | 1.22 | 1.9 |
| 4/23/2015 | 11:57:39 | 52.82 | 52.52 | 43 | 2.00 | 1.20 | 2.4 |
| 4/23/2015 | 11:57:48 | 53.15 | 52.85 | 40 | 1.98 | 1.18 | 2.2 |
| 4/23/2015 | 11:57:56 | 53.48 | 53.18 | 38 | 1.97 | 1.30 | 2.1 |

## H339 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 11:55:05

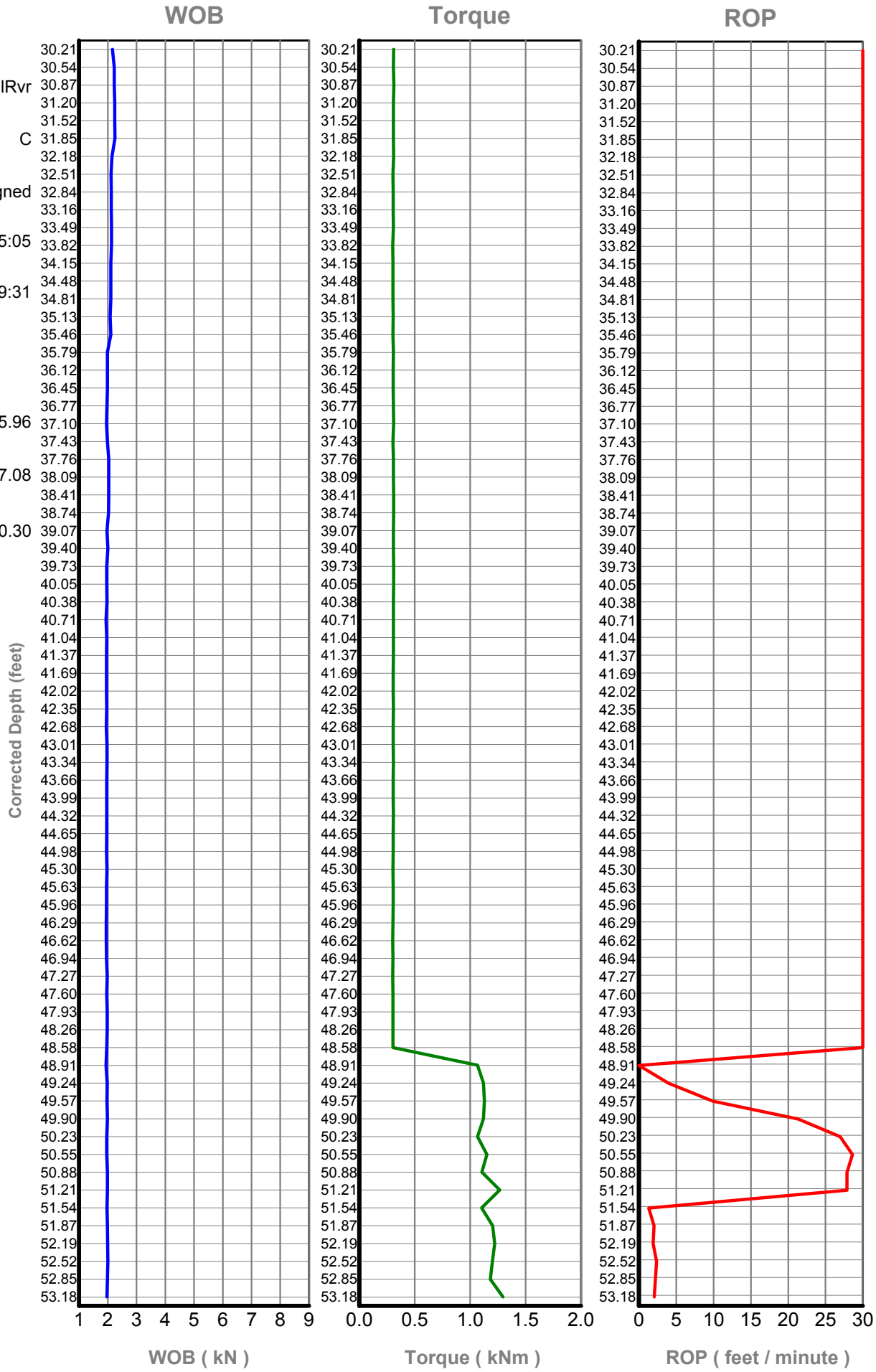
**End Date:**
4/23/2015 11:59:31

**Operator Note:**
'0.3 .4 x Auto Complete'

**Northing:**
367,255.96

**Easting:**
251,907.08

**Tide (feet):**
0.30



## Hole: H34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 18:01:27 | 35.11 | 30.21 | 931 | 0.35 | 0.32 | 50.9 |
| 4/24/2015 18:01:28 | 35.43 | 30.53 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 18:01:28 | 35.76 | 30.86 | 947 | 0.35 | 0.32 | 51.8 |
| 4/24/2015 18:01:29 | 36.09 | 31.19 | 947 | 0.35 | 0.32 | 51.8 |
| 4/24/2015 18:01:29 | 36.42 | 31.52 | 936 | 0.35 | 0.32 | 51.2 |
| 4/24/2015 18:01:29 | 36.75 | 31.85 | 925 | 0.35 | 0.32 | 50.6 |
| 4/24/2015 18:01:30 | 37.07 | 32.17 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 18:01:31 | 37.40 | 32.50 | 922 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 18:01:30 | 37.73 | 32.83 | 908 | 0.23 | 0.32 | 49.6 |
| 4/24/2015 18:01:31 | 38.06 | 33.16 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 18:01:31 | 38.39 | 33.49 | 908 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 18:01:31 | 38.71 | 33.81 | 919 | 0.35 | 0.32 | 50.2 |
| 4/24/2015 18:01:32 | 39.04 | 34.14 | 921 | 0.35 | 0.32 | 50.4 |
| 4/24/2015 18:01:33 | 39.37 | 34.47 | 927 | 0.35 | 0.33 | 50.7 |
| 4/24/2015 18:01:33 | 39.70 | 34.80 | 927 | 0.35 | 0.33 | 50.7 |
| 4/24/2015 18:01:33 | 40.03 | 35.13 | 915 | 0.35 | 0.32 | 50.0 |
| 4/24/2015 18:01:34 | 40.35 | 35.45 | 929 | 0.34 | 0.32 | 50.8 |
| 4/24/2015 18:01:34 | 40.68 | 35.78 | 929 | 0.32 | 0.36 | 50.8 |
| 4/24/2015 18:01:35 | 41.01 | 36.11 | 890 | 0.32 | 0.40 | 48.7 |
| 4/24/2015 18:01:48 | 41.34 | 36.44 | 49 | 3.44 | 0.40 | 2.7 |
| 4/24/2015 18:01:55 | 41.67 | 36.77 | 55 | 3.39 | 0.40 | 3.0 |
| 4/24/2015 18:02:01 | 41.99 | 37.09 | 55 | 3.79 | 0.40 | 3.0 |
| 4/24/2015 18:02:07 | 42.29 | 37.39 | 58 | 3.45 | 0.40 | 3.2 |

## H34 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 17:58:55

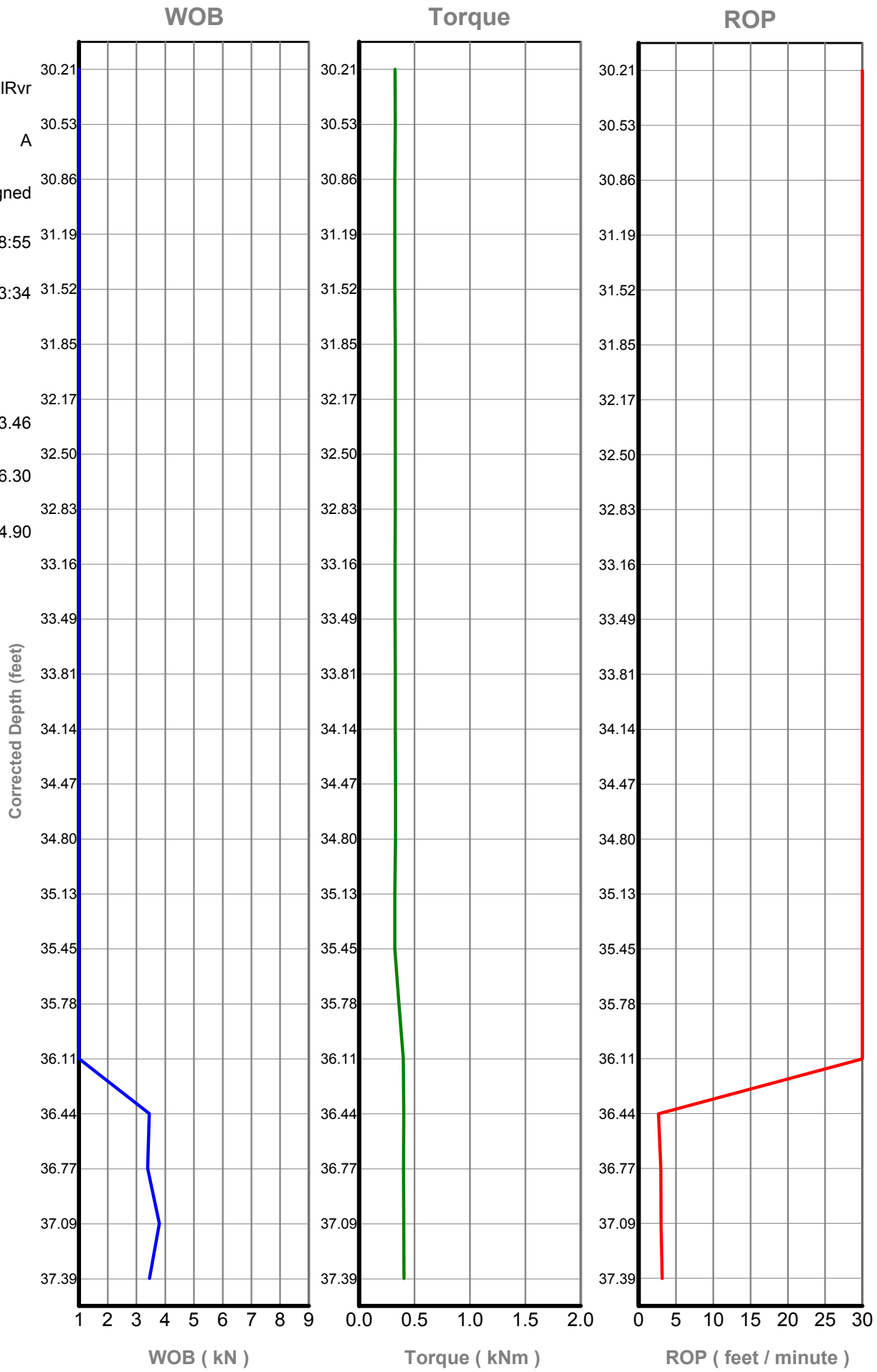
**End Date:**
4/24/2015 18:03:34

**Operator Note:**
'4.9 4.8 b Rock'

**Northing:**
367,163.46

**Easting:**
250,936.30

**Tide (feet):**
4.90



## Hole: H340 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 3:00:49 | 31.50 | 30.10 | 1,040 | 0.34 | 0.31 | 56.9 |
| 4/27/2015 3:00:50 | 31.82 | 30.42 | 1,040 | 0.34 | 0.31 | 56.9 |
| 4/27/2015 3:00:50 | 32.15 | 30.75 | 1,043 | 0.34 | 0.32 | 57.1 |
| 4/27/2015 3:00:50 | 32.48 | 31.08 | 1,064 | 0.34 | 0.31 | 58.2 |
| 4/27/2015 3:00:51 | 32.81 | 31.41 | 1,064 | 0.34 | 0.31 | 58.2 |
| 4/27/2015 3:00:51 | 33.14 | 31.74 | 1,035 | 0.34 | 0.32 | 56.6 |
| 4/27/2015 3:00:51 | 33.46 | 32.06 | 1,022 | 0.34 | 0.32 | 55.9 |
| 4/27/2015 3:00:52 | 33.79 | 32.39 | 1,022 | 0.34 | 0.32 | 55.9 |
| 4/27/2015 3:00:52 | 34.12 | 32.72 | 1,022 | 0.33 | 0.32 | 55.9 |
| 4/27/2015 3:00:52 | 34.45 | 33.05 | 1,042 | 0.33 | 0.32 | 57.0 |
| 4/27/2015 3:00:53 | 34.78 | 33.38 | 1,042 | 0.33 | 0.32 | 57.0 |
| 4/27/2015 3:00:53 | 35.11 | 33.71 | 1,045 | 0.34 | 0.32 | 57.1 |
| 4/27/2015 3:00:53 | 35.43 | 34.03 | 1,036 | 0.36 | 0.32 | 56.6 |
| 4/27/2015 3:00:54 | 35.76 | 34.36 | 1,036 | 0.36 | 0.32 | 56.6 |
| 4/27/2015 3:00:54 | 36.09 | 34.69 | 1,066 | 0.34 | 0.32 | 58.3 |
| 4/27/2015 3:00:55 | 36.42 | 35.02 | 1,054 | 0.35 | 0.32 | 57.6 |
| 4/27/2015 3:00:55 | 36.75 | 35.35 | 1,054 | 0.35 | 0.32 | 57.6 |
| 4/27/2015 3:00:55 | 37.07 | 35.67 | 1,041 | 0.34 | 0.32 | 56.9 |
| 4/27/2015 3:00:56 | 37.40 | 36.00 | 1,013 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 3:00:56 | 37.73 | 36.33 | 1,013 | 0.35 | 0.32 | 55.4 |
| 4/27/2015 3:00:56 | 38.06 | 36.66 | 1,029 | 0.34 | 0.32 | 56.3 |
| 4/27/2015 3:00:57 | 38.39 | 36.99 | 1,017 | 0.35 | 0.32 | 55.6 |
| 4/27/2015 3:00:57 | 38.71 | 37.31 | 1,017 | 0.35 | 0.32 | 55.6 |
| 4/27/2015 3:00:57 | 39.04 | 37.64 | 1,011 | 0.34 | 0.31 | 55.3 |
| 4/27/2015 3:00:58 | 39.37 | 37.97 | 1,011 | 0.34 | 0.33 | 55.3 |
| 4/27/2015 3:00:58 | 39.70 | 38.30 | 1,011 | 0.34 | 0.33 | 55.3 |
| 4/27/2015 3:00:58 | 40.03 | 38.63 | 1,032 | 0.33 | 0.31 | 56.4 |
| 4/27/2015 3:00:59 | 40.35 | 38.95 | 1,053 | 0.34 | 0.32 | 57.6 |
| 4/27/2015 3:00:59 | 40.68 | 39.28 | 1,053 | 0.34 | 0.32 | 57.6 |
| 4/27/2015 3:00:59 | 41.01 | 39.61 | 1,041 | 0.36 | 0.32 | 56.9 |
| 4/27/2015 3:01:00 | 41.34 | 39.94 | 1,036 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:01:00 | 41.67 | 40.27 | 1,036 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:01:00 | 41.99 | 40.59 | 1,036 | 0.33 | 0.32 | 56.6 |
| 4/27/2015 3:01:01 | 42.32 | 40.92 | 1,056 | 0.34 | 0.32 | 57.7 |
| 4/27/2015 3:01:02 | 42.65 | 41.25 | 1,056 | 0.34 | 0.32 | 57.7 |
| 4/27/2015 3:01:01 | 42.98 | 41.58 | 1,005 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 3:01:02 | 43.31 | 41.91 | 1,005 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 3:01:02 | 43.64 | 42.24 | 1,005 | 0.34 | 0.32 | 55.0 |
| 4/27/2015 3:01:02 | 43.96 | 42.56 | 1,028 | 0.35 | 0.32 | 56.2 |
| 4/27/2015 3:01:03 | 44.29 | 42.89 | 1,028 | 0.35 | 0.32 | 56.2 |
| 4/27/2015 3:01:03 | 44.62 | 43.22 | 1,003 | 0.34 | 0.31 | 54.9 |
| 4/27/2015 3:01:03 | 44.95 | 43.55 | 1,024 | 0.34 | 0.32 | 56.0 |
| 4/27/2015 3:01:04 | 45.28 | 43.88 | 1,024 | 0.34 | 0.32 | 56.0 |
| 4/27/2015 3:01:04 | 45.60 | 44.20 | 1,024 | 0.34 | 0.32 | 56.0 |
| 4/27/2015 3:01:05 | 45.93 | 44.53 | 1,025 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:01:05 | 46.26 | 44.86 | 1,025 | 0.33 | 0.32 | 56.1 |
| 4/27/2015 3:01:05 | 46.59 | 45.19 | 1,023 | 0.33 | 0.34 | 55.9 |
| 4/27/2015 3:01:10 | 46.92 | 45.52 | 0 | 3.40 | 0.35 | 0.0 |
| 4/27/2015 3:01:11 | 47.24 | 45.84 | 115 | 4.96 | 0.39 | 6.3 |
| 4/27/2015 3:01:13 | 47.57 | 46.17 | 230 | 4.10 | 0.38 | 12.6 |
| 4/27/2015 3:01:20 | 47.90 | 46.50 | 50 | 6.72 | 0.38 | 2.7 |
| 4/27/2015 3:01:22 | 48.23 | 46.83 | 105 | 3.21 | 0.38 | 5.7 |
| 4/27/2015 3:01:31 | 48.56 | 47.16 | 0 | 2.61 | 0.36 | 0.0 |
| 4/27/2015 3:01:32 | 48.88 | 47.48 | 157 | 5.80 | 0.38 | 8.6 |
| 4/27/2015 3:01:37 | 49.21 | 47.81 | 68 | 3.84 | 0.47 | 3.7 |
| 4/27/2015 3:01:39 | 49.54 | 48.14 | 138 | 4.11 | 0.38 | 7.5 |
| 4/27/2015 3:01:40 | 49.87 | 48.47 | 138 | 3.86 | 0.37 | 7.5 |
| 4/27/2015 3:01:54 | 50.20 | 48.80 | 6 | 3.13 | 0.36 | 0.3 |
| 4/27/2015 3:01:54 | 50.53 | 49.13 | 120 | 2.78 | 0.35 | 6.6 |
| 4/27/2015 3:02:06 | 50.85 | 49.45 | 0 | 2.49 | 0.36 | 0.0 |
| 4/27/2015 3:02:06 | 51.18 | 49.78 | 0 | 2.89 | 0.38 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 3:02:08 | 51.51 | 50.11 | 155 | 4.15 | 0.37 | 8.5 |
| 4/27/2015 | 3:02:09 | 51.84 | 50.44 | 227 | 3.66 | 0.38 | 12.4 |
| 4/27/2015 | 3:02:10 | 52.17 | 50.77 | 283 | 3.31 | 0.39 | 15.5 |
| 4/27/2015 | 3:02:16 | 52.49 | 51.09 | 38 | 4.17 | 0.40 | 2.1 |
| 4/27/2015 | 3:02:21 | 52.82 | 51.42 | 64 | 3.51 | 0.40 | 3.5 |
| 4/27/2015 | 3:02:29 | 53.15 | 51.75 | 49 | 3.68 | 0.41 | 2.7 |
| 4/27/2015 | 3:02:36 | 53.48 | 52.08 | 58 | 3.57 | 0.40 | 3.2 |
| 4/27/2015 | 3:02:45 | 53.81 | 52.41 | 40 | 3.34 | 0.40 | 2.2 |

## H340 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:59:26

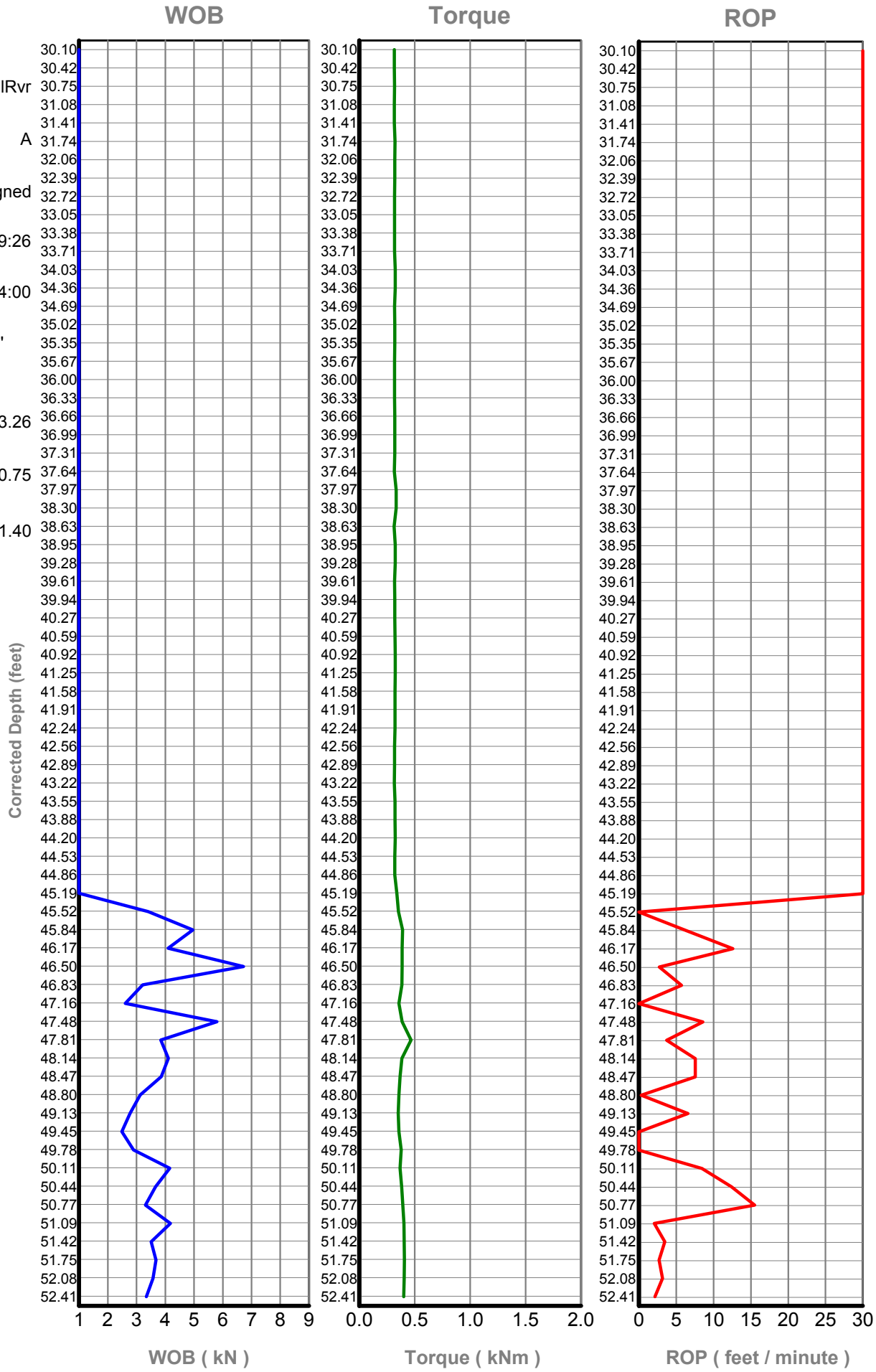
**End Date:**
4/27/2015 3:04:00

**Operator Note:**
'1.4 1.2b Auto Complete'

**Northing:**
365,273.26

**Easting:**
249,550.75

**Tide (feet):**
1.40



## Hole: H341 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:53:14 | 31.50 | 30.20 | 978 | 0.12 | 0.32 | 53.5 |
| 4/27/2015 2:53:15 | 31.82 | 30.52 | 978 | 0.12 | 0.32 | 53.5 |
| 4/27/2015 2:53:15 | 32.15 | 30.85 | 951 | 0.33 | 0.32 | 52.0 |
| 4/27/2015 2:53:15 | 32.48 | 31.18 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 2:53:15 | 32.81 | 31.51 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 2:53:16 | 33.14 | 31.84 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 2:53:16 | 33.46 | 32.16 | 963 | 0.34 | 0.32 | 52.6 |
| 4/27/2015 2:53:17 | 33.79 | 32.49 | 963 | 0.34 | 0.32 | 52.6 |
| 4/27/2015 2:53:17 | 34.12 | 32.82 | 985 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 2:53:17 | 34.45 | 33.15 | 979 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 2:53:18 | 34.78 | 33.48 | 1,001 | 0.34 | 0.33 | 54.7 |
| 4/27/2015 2:53:18 | 35.11 | 33.81 | 1,001 | 0.34 | 0.33 | 54.7 |
| 4/27/2015 2:53:18 | 35.43 | 34.13 | 995 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 2:53:19 | 35.76 | 34.46 | 960 | 0.34 | 0.32 | 52.5 |
| 4/27/2015 2:53:19 | 36.09 | 34.79 | 960 | 0.34 | 0.32 | 52.5 |
| 4/27/2015 2:53:19 | 36.42 | 35.12 | 960 | 0.34 | 0.32 | 52.5 |
| 4/27/2015 2:53:20 | 36.75 | 35.45 | 965 | 0.34 | 0.33 | 52.8 |
| 4/27/2015 2:53:20 | 37.07 | 35.77 | 965 | 0.34 | 0.33 | 52.8 |
| 4/27/2015 2:53:20 | 37.40 | 36.10 | 965 | 0.36 | 0.33 | 52.8 |
| 4/27/2015 2:53:21 | 37.73 | 36.43 | 940 | 0.34 | 0.33 | 51.4 |
| 4/27/2015 2:53:21 | 38.06 | 36.76 | 943 | 0.34 | 0.32 | 51.6 |
| 4/27/2015 2:53:22 | 38.39 | 37.09 | 943 | 0.34 | 0.32 | 51.6 |
| 4/27/2015 2:53:22 | 38.71 | 37.41 | 943 | 0.34 | 0.32 | 51.6 |
| 4/27/2015 2:53:22 | 39.04 | 37.74 | 987 | 0.34 | 0.32 | 54.0 |
| 4/27/2015 2:53:23 | 39.37 | 38.07 | 987 | 0.34 | 0.32 | 54.0 |
| 4/27/2015 2:53:23 | 39.70 | 38.40 | 973 | 0.34 | 0.33 | 53.2 |
| 4/27/2015 2:53:23 | 40.03 | 38.73 | 967 | 0.35 | 0.33 | 52.9 |
| 4/27/2015 2:53:24 | 40.35 | 39.05 | 967 | 0.35 | 0.33 | 52.9 |
| 4/27/2015 2:53:24 | 40.68 | 39.38 | 986 | 0.34 | 0.33 | 53.9 |
| 4/27/2015 2:53:24 | 41.01 | 39.71 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 2:53:25 | 41.34 | 40.04 | 974 | 0.34 | 0.32 | 53.3 |
| 4/27/2015 2:53:26 | 41.67 | 40.37 | 974 | 0.34 | 0.32 | 53.3 |
| 4/27/2015 2:53:25 | 41.99 | 40.69 | 969 | 0.34 | 0.32 | 53.0 |
| 4/27/2015 2:53:26 | 42.32 | 41.02 | 972 | 0.34 | 0.33 | 53.1 |
| 4/27/2015 2:53:27 | 42.65 | 41.35 | 972 | 0.34 | 0.33 | 53.1 |
| 4/27/2015 2:53:27 | 42.98 | 41.68 | 989 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 2:53:27 | 43.31 | 42.01 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 2:53:28 | 43.64 | 42.34 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 2:53:28 | 43.96 | 42.66 | 980 | 0.35 | 0.32 | 53.6 |
| 4/27/2015 2:53:28 | 44.29 | 42.99 | 980 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 2:53:29 | 44.62 | 43.32 | 987 | 0.34 | 0.33 | 54.0 |
| 4/27/2015 2:53:29 | 44.95 | 43.65 | 987 | 0.34 | 0.33 | 54.0 |
| 4/27/2015 2:53:29 | 45.28 | 43.98 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 2:53:30 | 45.60 | 44.30 | 954 | 0.33 | 0.34 | 52.2 |
| 4/27/2015 2:53:30 | 45.93 | 44.63 | 954 | 0.33 | 0.34 | 52.2 |
| 4/27/2015 2:53:35 | 46.26 | 44.96 | 3 | 3.54 | 0.37 | 0.2 |
| 4/27/2015 2:53:40 | 46.59 | 45.29 | 20 | 5.49 | 0.38 | 1.1 |
| 4/27/2015 2:54:01 | 46.92 | 45.62 | 0 | 2.38 | 0.31 | 0.0 |
| 4/27/2015 2:54:02 | 47.24 | 45.94 | 157 | 3.75 | 0.37 | 8.6 |
| 4/27/2015 2:54:02 | 47.57 | 46.27 | 248 | 3.71 | 0.37 | 13.6 |
| 4/27/2015 2:54:03 | 47.90 | 46.60 | 417 | 2.78 | 0.36 | 22.8 |
| 4/27/2015 2:54:19 | 48.23 | 46.93 | 0 | 3.19 | 0.36 | 0.0 |
| 4/27/2015 2:54:20 | 48.56 | 47.26 | 77 | 3.70 | 0.37 | 4.2 |
| 4/27/2015 2:54:21 | 48.88 | 47.58 | 155 | 3.72 | 0.37 | 8.5 |
| 4/27/2015 2:54:21 | 49.21 | 47.91 | 242 | 3.68 | 0.37 | 13.3 |
| 4/27/2015 2:54:33 | 49.54 | 48.24 | 29 | 4.19 | 0.39 | 1.6 |
| 4/27/2015 2:54:34 | 49.87 | 48.57 | 139 | 3.20 | 0.36 | 7.6 |
| 4/27/2015 2:54:34 | 50.20 | 48.90 | 236 | 3.54 | 0.36 | 12.9 |
| 4/27/2015 2:54:35 | 50.53 | 49.23 | 351 | 2.04 | 0.34 | 19.2 |
| 4/27/2015 2:54:35 | 50.85 | 49.55 | 483 | 3.28 | 0.35 | 26.4 |
| 4/27/2015 2:54:36 | 51.18 | 49.88 | 580 | 3.76 | 0.37 | 31.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:55:50 | 51.51 | 50.21 | 9 | 4.41 | 0.38 | 0.5 |
| 4/27/2015 | 2:55:51 | 51.84 | 50.54 | 143 | 3.69 | 0.37 | 7.8 |
| 4/27/2015 | 2:55:52 | 52.17 | 50.87 | 293 | 5.10 | 0.37 | 16.0 |
| 4/27/2015 | 2:55:53 | 52.49 | 51.19 | 364 | 3.91 | 0.37 | 19.9 |
| 4/27/2015 | 2:55:54 | 52.82 | 51.52 | 436 | 2.48 | 0.38 | 23.8 |
| 4/27/2015 | 2:56:00 | 53.15 | 51.85 | 108 | 3.03 | 0.36 | 5.9 |
| 4/27/2015 | 2:56:00 | 53.48 | 52.18 | 211 | 3.52 | 0.38 | 11.6 |
| 4/27/2015 | 2:56:04 | 53.81 | 52.51 | 72 | 3.35 | 0.39 | 3.9 |
| 4/27/2015 | 2:56:05 | 54.13 | 52.83 | 173 | 2.57 | 0.35 | 9.4 |
| 4/27/2015 | 2:56:06 | 54.46 | 53.16 | 269 | 2.61 | 0.35 | 14.7 |
| 4/27/2015 | 2:56:06 | 54.79 | 53.49 | 376 | 2.99 | 0.36 | 20.5 |
| 4/27/2015 | 2:56:08 | 55.12 | 53.82 | 425 | 3.26 | 0.40 | 23.3 |
| 4/27/2015 | 2:56:10 | 55.45 | 54.15 | 121 | 3.28 | 0.38 | 6.6 |
| 4/27/2015 | 2:56:11 | 55.77 | 54.47 | 185 | 2.99 | 0.37 | 10.1 |
| 4/27/2015 | 2:56:14 | 56.10 | 54.80 | 192 | 3.07 | 0.39 | 10.5 |
| 4/27/2015 | 2:56:15 | 56.22 | 54.92 | 156 | 3.13 | 0.39 | 8.5 |

## H341 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:50:50

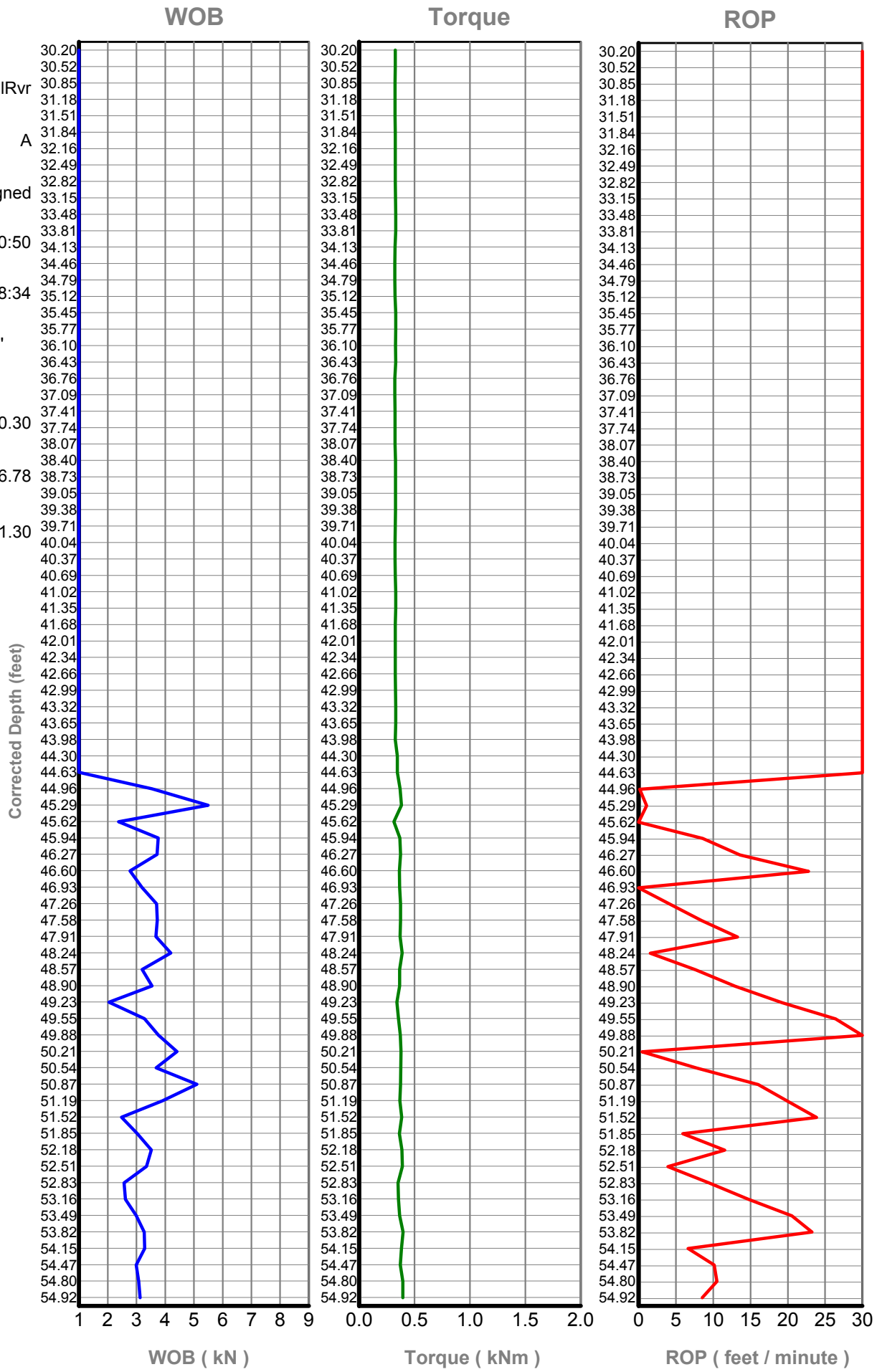
**End Date:**
4/27/2015 2:58:34

**Operator Note:**
'1.3 1.2b Auto Complete'

**Northing:**
365,310.30

**Easting:**
249,596.78

**Tide (feet):**
1.30



## Hole: H342 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:56:11 | 31.50 | 30.10 | 576 | 1.75 | 0.16 | 31.5 |
| 4/27/2015 2:56:12 | 31.82 | 30.42 | 576 | 1.75 | 0.16 | 31.5 |
| 4/27/2015 2:56:11 | 32.15 | 30.75 | 574 | 1.77 | 0.16 | 31.4 |
| 4/27/2015 2:56:12 | 32.48 | 31.08 | 584 | 1.81 | 0.15 | 31.9 |
| 4/27/2015 2:56:12 | 32.81 | 31.41 | 574 | 1.76 | 0.15 | 31.4 |
| 4/27/2015 2:56:13 | 33.14 | 31.74 | 571 | 1.81 | 0.15 | 31.2 |
| 4/27/2015 2:56:14 | 33.46 | 32.06 | 575 | 1.77 | 0.16 | 31.5 |
| 4/27/2015 2:56:14 | 33.79 | 32.39 | 575 | 1.76 | 0.15 | 31.5 |
| 4/27/2015 2:56:15 | 34.12 | 32.72 | 575 | 1.78 | 0.16 | 31.5 |
| 4/27/2015 2:56:15 | 34.45 | 33.05 | 575 | 1.76 | 0.16 | 31.5 |
| 4/27/2015 2:56:16 | 34.78 | 33.38 | 572 | 1.77 | 0.15 | 31.3 |
| 4/27/2015 2:56:17 | 35.11 | 33.71 | 563 | 1.79 | 0.16 | 30.8 |
| 4/27/2015 2:56:17 | 35.43 | 34.03 | 563 | 1.77 | 0.15 | 30.8 |
| 4/27/2015 2:56:18 | 35.76 | 34.36 | 569 | 1.79 | 0.16 | 31.1 |
| 4/27/2015 2:56:19 | 36.09 | 34.69 | 569 | 1.79 | 0.16 | 31.1 |
| 4/27/2015 2:56:19 | 36.42 | 35.02 | 569 | 1.77 | 0.15 | 31.1 |
| 4/27/2015 2:56:20 | 36.75 | 35.35 | 569 | 1.78 | 0.15 | 31.1 |
| 4/27/2015 2:56:20 | 37.07 | 35.67 | 576 | 1.78 | 0.16 | 31.5 |
| 4/27/2015 2:56:21 | 37.40 | 36.00 | 569 | 1.77 | 0.16 | 31.1 |
| 4/27/2015 2:56:22 | 37.73 | 36.33 | 572 | 1.83 | 0.15 | 31.3 |
| 4/27/2015 2:56:22 | 38.06 | 36.66 | 572 | 1.75 | 0.15 | 31.3 |
| 4/27/2015 2:56:23 | 38.39 | 36.99 | 572 | 1.81 | 0.15 | 31.3 |
| 4/27/2015 2:56:24 | 38.71 | 37.31 | 575 | 1.79 | 0.16 | 31.5 |
| 4/27/2015 2:56:24 | 39.04 | 37.64 | 572 | 1.79 | 0.16 | 31.3 |
| 4/27/2015 2:56:25 | 39.37 | 37.97 | 569 | 1.79 | 0.16 | 31.1 |
| 4/27/2015 2:56:25 | 39.70 | 38.30 | 566 | 1.81 | 0.16 | 30.9 |
| 4/27/2015 2:56:26 | 40.03 | 38.63 | 567 | 1.76 | 0.15 | 31.0 |
| 4/27/2015 2:56:27 | 40.35 | 38.95 | 570 | 1.79 | 0.15 | 31.1 |
| 4/27/2015 2:56:27 | 40.68 | 39.28 | 570 | 1.79 | 0.16 | 31.1 |
| 4/27/2015 2:56:28 | 41.01 | 39.61 | 572 | 1.76 | 0.16 | 31.3 |
| 4/27/2015 2:56:29 | 41.34 | 39.94 | 570 | 1.75 | 0.16 | 31.1 |
| 4/27/2015 2:56:29 | 41.67 | 40.27 | 566 | 1.76 | 0.16 | 30.9 |
| 4/27/2015 2:56:30 | 41.99 | 40.59 | 572 | 1.79 | 0.16 | 31.3 |
| 4/27/2015 2:56:30 | 42.32 | 40.92 | 570 | 1.76 | 0.16 | 31.1 |
| 4/27/2015 2:56:31 | 42.65 | 41.25 | 570 | 1.77 | 0.16 | 31.1 |
| 4/27/2015 2:56:32 | 42.98 | 41.58 | 570 | 1.79 | 0.16 | 31.1 |
| 4/27/2015 2:56:33 | 43.31 | 41.91 | 567 | 1.77 | 0.16 | 31.0 |
| 4/27/2015 2:56:33 | 43.64 | 42.24 | 567 | 1.76 | 0.16 | 31.0 |
| 4/27/2015 2:56:34 | 43.96 | 42.56 | 563 | 1.74 | 0.16 | 30.8 |
| 4/27/2015 2:56:34 | 44.29 | 42.89 | 563 | 1.80 | 0.16 | 30.8 |
| 4/27/2015 2:56:35 | 44.62 | 43.22 | 557 | 1.76 | 0.16 | 30.4 |
| 4/27/2015 2:56:36 | 44.95 | 43.55 | 560 | 1.76 | 0.15 | 30.6 |
| 4/27/2015 2:56:36 | 45.28 | 43.88 | 563 | 1.81 | 0.16 | 30.8 |
| 4/27/2015 2:56:37 | 45.60 | 44.20 | 567 | 1.77 | 0.15 | 31.0 |
| 4/27/2015 2:56:37 | 45.93 | 44.53 | 567 | 1.79 | 0.16 | 31.0 |
| 4/27/2015 2:56:38 | 46.26 | 44.86 | 567 | 1.81 | 0.16 | 31.0 |
| 4/27/2015 2:56:39 | 46.59 | 45.19 | 570 | 1.76 | 0.16 | 31.2 |
| 4/27/2015 2:56:53 | 46.92 | 45.52 | 0 | 1.81 | 1.19 | 0.0 |
| 4/27/2015 2:56:53 | 47.24 | 45.84 | 88 | 1.81 | 1.19 | 4.8 |
| 4/27/2015 2:56:54 | 47.57 | 46.17 | 265 | 1.79 | 1.17 | 14.5 |
| 4/27/2015 2:57:07 | 47.90 | 46.50 | 69 | 1.79 | 1.32 | 3.8 |
| 4/27/2015 2:57:09 | 48.23 | 46.83 | 194 | 1.77 | 1.27 | 10.6 |
| 4/27/2015 2:57:15 | 48.56 | 47.16 | 74 | 1.75 | 1.16 | 4.0 |
| 4/27/2015 2:57:16 | 48.88 | 47.48 | 213 | 1.81 | 1.10 | 11.6 |
| 4/27/2015 2:57:17 | 49.21 | 47.81 | 356 | 1.75 | 1.16 | 19.5 |
| 4/27/2015 2:57:25 | 49.54 | 48.14 | 0 | 1.81 | 1.04 | 0.0 |
| 4/27/2015 2:57:26 | 49.87 | 48.47 | 131 | 1.75 | 1.08 | 7.2 |
| 4/27/2015 2:57:27 | 50.20 | 48.80 | 193 | 1.76 | 1.13 | 10.6 |
| 4/27/2015 2:57:48 | 50.53 | 49.13 | 26 | 1.79 | 1.24 | 1.4 |
| 4/27/2015 2:57:49 | 50.85 | 49.45 | 161 | 1.77 | 1.24 | 8.8 |
| 4/27/2015 2:57:51 | 51.18 | 49.78 | 219 | 1.80 | 1.09 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:58:14 | 51.51 | 50.11 | 78 | 1.79 | 1.13 | 4.3 |
| 4/27/2015 | 2:58:18 | 51.84 | 50.44 | 116 | 1.79 | 1.32 | 6.3 |
| 4/27/2015 | 2:58:20 | 52.17 | 50.77 | 162 | 1.77 | 1.17 | 8.9 |
| 4/27/2015 | 2:58:21 | 52.49 | 51.09 | 191 | 1.76 | 1.11 | 10.4 |
| 4/27/2015 | 2:58:43 | 52.82 | 51.42 | 6 | 1.79 | 1.31 | 0.3 |
| 4/27/2015 | 2:58:44 | 53.15 | 51.75 | 143 | 1.79 | 1.13 | 7.8 |
| 4/27/2015 | 2:58:45 | 53.48 | 52.08 | 247 | 1.74 | 1.07 | 13.5 |
| 4/27/2015 | 2:59:00 | 53.81 | 52.41 | 0 | 1.79 | 1.09 | 0.0 |
| 4/27/2015 | 2:59:02 | 54.13 | 52.73 | 133 | 1.80 | 0.99 | 7.3 |
| 4/27/2015 | 2:59:03 | 54.46 | 53.06 | 237 | 1.76 | 1.01 | 13.0 |
| 4/27/2015 | 2:59:05 | 54.79 | 53.39 | 174 | 1.66 | 0.97 | 9.5 |
| 4/27/2015 | 2:59:07 | 55.12 | 53.72 | 170 | 1.74 | 1.02 | 9.3 |
| 4/27/2015 | 2:59:08 | 55.45 | 54.05 | 212 | 1.78 | 1.01 | 11.6 |
| 4/27/2015 | 2:59:10 | 55.77 | 54.37 | 278 | 1.78 | 1.04 | 15.2 |
| 4/27/2015 | 2:59:11 | 56.10 | 54.70 | 232 | 1.77 | 1.08 | 12.7 |
| 4/27/2015 | 2:59:11 | 56.18 | 54.78 | 232 | 1.77 | 1.08 | 12.7 |

## H342 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:54:21

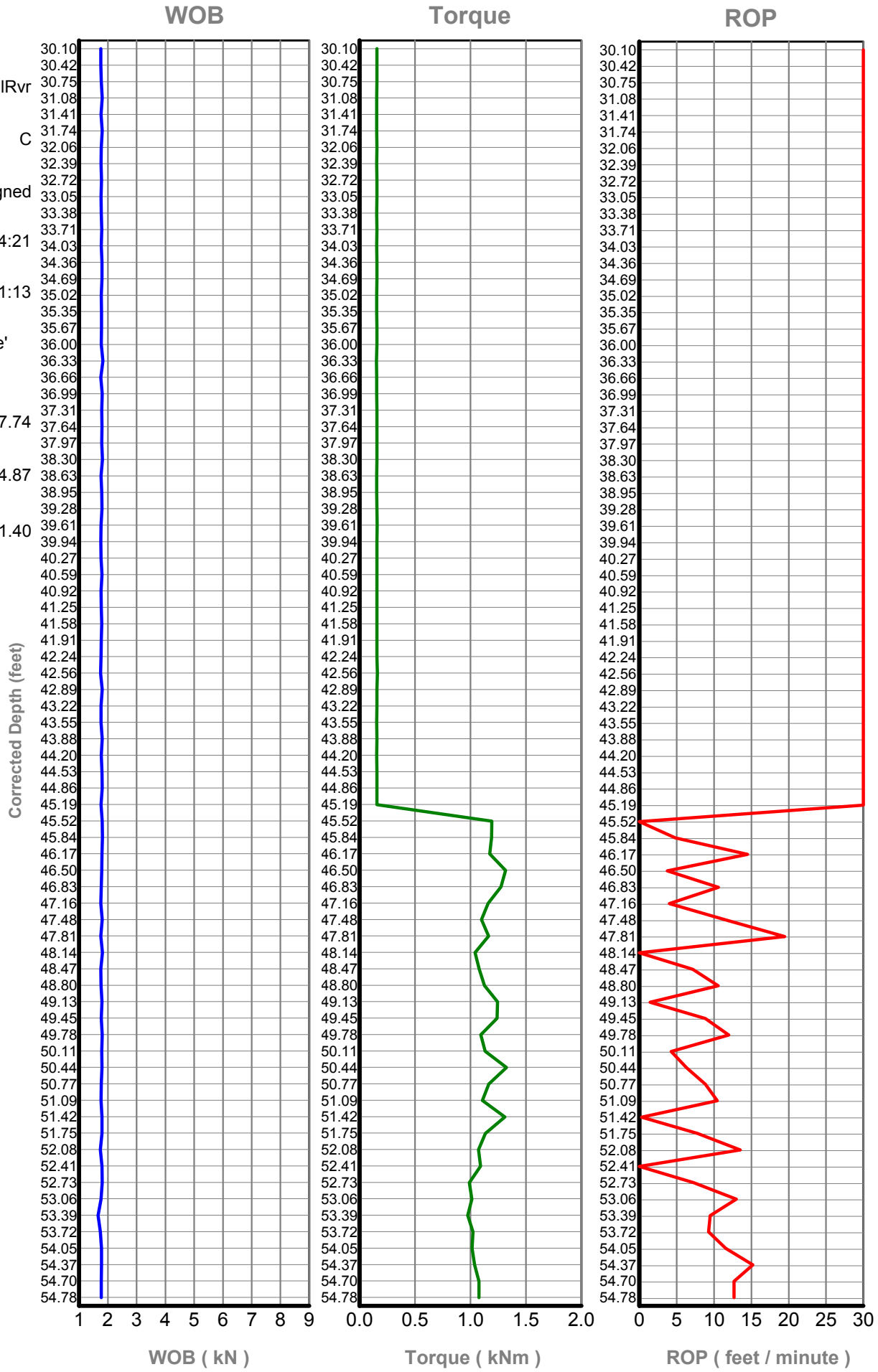
**End Date:**
4/27/2015 3:01:13

**Operator Note:**
'1.4 1.2 c Auto Complete'

**Northing:**
365,357.74

**Easting:**
249,654.87

**Tide (feet):**
1.40



## Hole: H343 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:20:03 | 31.50 | 30.10 | 1,049 | 0.30 | 0.33 | 57.4 |
| 4/27/2015 2:20:03 | 31.82 | 30.42 | 1,044 | 0.30 | 0.32 | 57.1 |
| 4/27/2015 2:20:03 | 32.15 | 30.75 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 2:20:03 | 32.48 | 31.08 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 2:20:04 | 32.81 | 31.41 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 2:20:04 | 33.14 | 31.74 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/27/2015 2:20:05 | 33.46 | 32.06 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/27/2015 2:20:05 | 33.79 | 32.39 | 1,045 | 0.31 | 0.32 | 57.2 |
| 4/27/2015 2:20:05 | 34.12 | 32.72 | 1,039 | 0.30 | 0.32 | 56.8 |
| 4/27/2015 2:20:06 | 34.45 | 33.05 | 1,039 | 0.30 | 0.32 | 56.8 |
| 4/27/2015 2:20:06 | 34.78 | 33.38 | 1,042 | 0.30 | 0.32 | 57.0 |
| 4/27/2015 2:20:06 | 35.11 | 33.71 | 1,042 | 0.33 | 0.31 | 57.0 |
| 4/27/2015 2:20:07 | 35.43 | 34.03 | 1,042 | 0.33 | 0.31 | 57.0 |
| 4/27/2015 2:20:07 | 35.76 | 34.36 | 1,034 | 0.32 | 0.31 | 56.6 |
| 4/27/2015 2:20:08 | 36.09 | 34.69 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/27/2015 2:20:08 | 36.42 | 35.02 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/27/2015 2:20:08 | 36.75 | 35.35 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 2:20:09 | 37.07 | 35.67 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/27/2015 2:20:09 | 37.40 | 36.00 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/27/2015 2:20:09 | 37.73 | 36.33 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/27/2015 2:20:10 | 38.06 | 36.66 | 1,010 | 0.30 | 0.32 | 55.2 |
| 4/27/2015 2:20:10 | 38.39 | 36.99 | 1,010 | 0.30 | 0.32 | 55.2 |
| 4/27/2015 2:20:10 | 38.71 | 37.31 | 1,010 | 0.30 | 0.31 | 55.2 |
| 4/27/2015 2:20:11 | 39.04 | 37.64 | 1,010 | 0.30 | 0.31 | 55.2 |
| 4/27/2015 2:20:11 | 39.37 | 37.97 | 1,018 | 0.30 | 0.31 | 55.7 |
| 4/27/2015 2:20:11 | 39.70 | 38.30 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/27/2015 2:20:12 | 40.03 | 38.63 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/27/2015 2:20:12 | 40.35 | 38.95 | 1,024 | 0.30 | 0.31 | 56.0 |
| 4/27/2015 2:20:12 | 40.68 | 39.28 | 1,034 | 0.30 | 0.31 | 56.5 |
| 4/27/2015 2:20:13 | 41.01 | 39.61 | 1,034 | 0.30 | 0.31 | 56.5 |
| 4/27/2015 2:20:13 | 41.34 | 39.94 | 1,056 | 0.30 | 0.32 | 57.8 |
| 4/27/2015 2:20:13 | 41.67 | 40.27 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 2:20:14 | 41.99 | 40.59 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 2:20:14 | 42.32 | 40.92 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 2:20:14 | 42.65 | 41.25 | 1,037 | 0.30 | 0.32 | 56.7 |
| 4/27/2015 2:20:15 | 42.98 | 41.58 | 1,037 | 0.30 | 0.32 | 56.7 |
| 4/27/2015 2:20:15 | 43.31 | 41.91 | 1,047 | 0.30 | 0.32 | 57.3 |
| 4/27/2015 2:20:15 | 43.64 | 42.24 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 2:20:16 | 43.96 | 42.56 | 1,031 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 2:20:16 | 44.29 | 42.89 | 1,002 | 0.29 | 0.31 | 54.8 |
| 4/27/2015 2:20:16 | 44.62 | 43.22 | 1,033 | 0.29 | 0.32 | 56.5 |
| 4/27/2015 2:20:17 | 44.95 | 43.55 | 1,033 | 0.29 | 0.32 | 56.5 |
| 4/27/2015 2:20:17 | 45.28 | 43.88 | 1,028 | 0.29 | 0.31 | 56.2 |
| 4/27/2015 2:20:17 | 45.60 | 44.20 | 1,028 | 0.30 | 0.31 | 56.2 |
| 4/27/2015 2:20:18 | 45.93 | 44.53 | 1,028 | 0.30 | 0.31 | 56.2 |
| 4/27/2015 2:20:18 | 46.26 | 44.86 | 1,028 | 0.29 | 0.33 | 56.2 |
| 4/27/2015 2:20:19 | 46.59 | 45.19 | 991 | 0.29 | 0.36 | 54.2 |
| 4/27/2015 2:20:24 | 46.92 | 45.52 | 65 | 3.34 | 0.37 | 3.5 |
| 4/27/2015 2:20:25 | 47.24 | 45.84 | 210 | 6.77 | 0.39 | 11.5 |
| 4/27/2015 2:20:27 | 47.57 | 46.17 | 186 | 3.92 | 0.37 | 10.2 |
| 4/27/2015 2:20:32 | 47.90 | 46.50 | 0 | 6.83 | 0.37 | 0.0 |
| 4/27/2015 2:20:33 | 48.23 | 46.83 | 197 | 5.12 | 0.41 | 10.8 |
| 4/27/2015 2:20:46 | 48.56 | 47.16 | 23 | 3.96 | 0.40 | 1.3 |
| 4/27/2015 2:20:53 | 48.88 | 47.48 | 71 | 3.75 | 0.37 | 3.9 |
| 4/27/2015 2:20:54 | 49.21 | 47.81 | 216 | 4.19 | 0.37 | 11.8 |
| 4/27/2015 2:20:54 | 49.54 | 48.14 | 299 | 3.45 | 0.37 | 16.3 |
| 4/27/2015 2:20:55 | 49.87 | 48.47 | 383 | 3.27 | 0.36 | 21.0 |
| 4/27/2015 2:21:06 | 50.20 | 48.80 | 63 | 3.89 | 0.38 | 3.4 |
| 4/27/2015 2:21:13 | 50.53 | 49.13 | 47 | 3.45 | 0.37 | 2.6 |
| 4/27/2015 2:21:13 | 50.85 | 49.45 | 132 | 3.16 | 0.36 | 7.2 |
| 4/27/2015 2:21:14 | 51.18 | 49.78 | 132 | 2.95 | 0.36 | 7.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:21:15 | 51.51 | 50.11 | 240 | 2.58 | 0.36 | 13.1 |
| 4/27/2015 | 2:21:15 | 51.84 | 50.44 | 342 | 2.50 | 0.36 | 18.7 |
| 4/27/2015 | 2:21:16 | 52.17 | 50.77 | 438 | 2.45 | 0.37 | 24.0 |
| 4/27/2015 | 2:21:17 | 52.49 | 51.09 | 438 | 2.52 | 0.37 | 24.0 |
| 4/27/2015 | 2:21:18 | 52.82 | 51.42 | 471 | 2.57 | 0.37 | 25.8 |
| 4/27/2015 | 2:21:19 | 53.15 | 51.75 | 408 | 2.58 | 0.38 | 22.3 |
| 4/27/2015 | 2:21:20 | 53.48 | 52.08 | 347 | 2.64 | 0.38 | 19.0 |
| 4/27/2015 | 2:21:22 | 53.81 | 52.41 | 236 | 2.99 | 0.38 | 12.9 |
| 4/27/2015 | 2:21:24 | 54.13 | 52.73 | 164 | 2.97 | 0.39 | 9.0 |
| 4/27/2015 | 2:21:27 | 54.46 | 53.06 | 142 | 3.05 | 0.40 | 7.8 |
| 4/27/2015 | 2:21:30 | 54.79 | 53.39 | 118 | 3.01 | 0.39 | 6.5 |
| 4/27/2015 | 2:21:33 | 55.12 | 53.72 | 118 | 3.16 | 0.38 | 6.4 |
| 4/27/2015 | 2:21:35 | 55.45 | 54.05 | 166 | 2.96 | 0.38 | 9.1 |
| 4/27/2015 | 2:21:36 | 55.77 | 54.37 | 225 | 2.91 | 0.37 | 12.3 |
| 4/27/2015 | 2:21:41 | 56.10 | 54.70 | 0 | 2.22 | 0.36 | 0.0 |
| 4/27/2015 | 2:21:42 | 56.43 | 55.03 | 41 | 2.88 | 0.38 | 2.2 |
| 4/27/2015 | 2:21:43 | 56.65 | 55.25 | 157 | 3.14 | 0.39 | 8.6 |

## H343 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:18:18

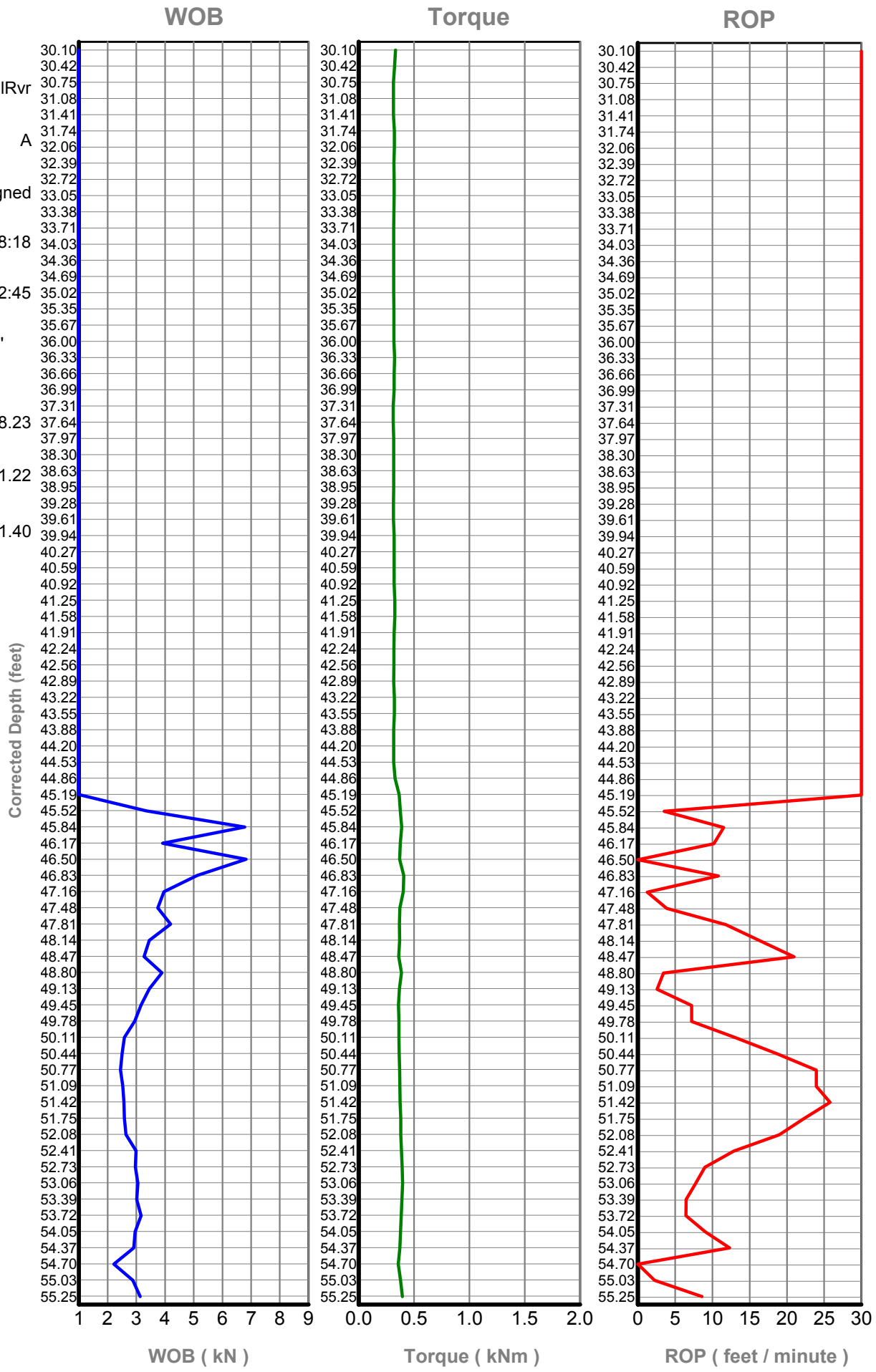
**End Date:**
4/27/2015 2:22:45

**Operator Note:**
'1.4 1.6b Auto Complete'

**Northing:**
365,418.23

**Easting:**
249,731.22

**Tide (feet):**
1.40



## Hole: H344 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:24:52 | 31.50 | 30.10 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/27/2015 2:24:52 | 31.82 | 30.42 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 2:24:53 | 32.15 | 30.75 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 2:24:53 | 32.48 | 31.08 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/27/2015 2:24:53 | 32.81 | 31.41 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/27/2015 2:24:54 | 33.14 | 31.74 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/27/2015 2:24:54 | 33.46 | 32.06 | 1,071 | 0.32 | 0.31 | 58.6 |
| 4/27/2015 2:24:54 | 33.79 | 32.39 | 1,071 | 0.32 | 0.31 | 58.6 |
| 4/27/2015 2:24:54 | 34.12 | 32.72 | 1,057 | 0.32 | 0.31 | 57.8 |
| 4/27/2015 2:24:55 | 34.45 | 33.05 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/27/2015 2:24:55 | 34.78 | 33.38 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/27/2015 2:24:55 | 35.11 | 33.71 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/27/2015 2:24:56 | 35.43 | 34.03 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/27/2015 2:24:56 | 35.76 | 34.36 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/27/2015 2:24:56 | 36.09 | 34.69 | 1,067 | 0.31 | 0.32 | 58.3 |
| 4/27/2015 2:24:57 | 36.42 | 35.02 | 1,048 | 0.32 | 0.32 | 57.3 |
| 4/27/2015 2:24:57 | 36.75 | 35.35 | 1,048 | 0.32 | 0.32 | 57.3 |
| 4/27/2015 2:24:57 | 37.07 | 35.67 | 1,049 | 0.29 | 0.31 | 57.3 |
| 4/27/2015 2:24:58 | 37.40 | 36.00 | 1,065 | 0.29 | 0.32 | 58.2 |
| 4/27/2015 2:24:59 | 37.73 | 36.33 | 1,065 | 0.29 | 0.32 | 58.2 |
| 4/27/2015 2:24:59 | 38.06 | 36.66 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 2:24:59 | 38.39 | 36.99 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 2:25:00 | 38.71 | 37.31 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 2:25:00 | 39.04 | 37.64 | 1,038 | 0.32 | 0.31 | 56.7 |
| 4/27/2015 2:25:00 | 39.37 | 37.97 | 1,038 | 0.32 | 0.31 | 56.7 |
| 4/27/2015 2:25:00 | 39.70 | 38.30 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/27/2015 2:25:01 | 40.03 | 38.63 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/27/2015 2:25:01 | 40.35 | 38.95 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/27/2015 2:25:01 | 40.68 | 39.28 | 1,051 | 0.32 | 0.31 | 57.5 |
| 4/27/2015 2:25:02 | 41.01 | 39.61 | 1,066 | 0.37 | 0.31 | 58.3 |
| 4/27/2015 2:25:02 | 41.34 | 39.94 | 1,066 | 0.37 | 0.31 | 58.3 |
| 4/27/2015 2:25:02 | 41.67 | 40.27 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/27/2015 2:25:03 | 41.99 | 40.59 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 2:25:03 | 42.32 | 40.92 | 1,074 | 0.31 | 0.31 | 58.7 |
| 4/27/2015 2:25:03 | 42.65 | 41.25 | 1,061 | 0.31 | 0.31 | 58.0 |
| 4/27/2015 2:25:04 | 42.98 | 41.58 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/27/2015 2:25:04 | 43.31 | 41.91 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/27/2015 2:25:04 | 43.64 | 42.24 | 1,060 | 0.32 | 0.31 | 58.0 |
| 4/27/2015 2:25:05 | 43.96 | 42.56 | 1,060 | 0.32 | 0.31 | 58.0 |
| 4/27/2015 2:25:05 | 44.29 | 42.89 | 1,070 | 0.32 | 0.31 | 58.5 |
| 4/27/2015 2:25:05 | 44.62 | 43.22 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 2:25:06 | 44.95 | 43.55 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 2:25:06 | 45.28 | 43.88 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/27/2015 2:25:06 | 45.60 | 44.20 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/27/2015 2:25:07 | 45.93 | 44.53 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/27/2015 2:25:07 | 46.26 | 44.86 | 1,067 | 0.31 | 0.33 | 58.4 |
| 4/27/2015 2:25:13 | 46.59 | 45.19 | 0 | 2.84 | 0.35 | 0.0 |
| 4/27/2015 2:25:15 | 46.92 | 45.52 | 192 | 3.20 | 0.38 | 10.5 |
| 4/27/2015 2:25:18 | 47.24 | 45.84 | 108 | 2.84 | 0.37 | 5.9 |
| 4/27/2015 2:25:18 | 47.57 | 46.17 | 185 | 3.11 | 0.37 | 10.1 |
| 4/27/2015 2:25:20 | 47.90 | 46.50 | 330 | 3.58 | 0.37 | 18.1 |
| 4/27/2015 2:25:21 | 48.23 | 46.83 | 393 | 2.83 | 0.37 | 21.5 |
| 4/27/2015 2:25:21 | 48.56 | 47.16 | 381 | 2.80 | 0.37 | 20.9 |
| 4/27/2015 2:25:22 | 48.88 | 47.48 | 437 | 2.46 | 0.36 | 23.9 |
| 4/27/2015 2:25:23 | 49.21 | 47.81 | 482 | 2.99 | 0.35 | 26.4 |
| 4/27/2015 2:25:23 | 49.54 | 48.14 | 514 | 3.01 | 0.28 | 28.1 |
| 4/27/2015 2:25:28 | 49.87 | 48.47 | 88 | 5.04 | 0.39 | 4.8 |
| 4/27/2015 2:25:30 | 50.20 | 48.80 | 220 | 3.32 | 0.38 | 12.0 |
| 4/27/2015 2:25:32 | 50.53 | 49.13 | 210 | 3.72 | 0.38 | 11.5 |
| 4/27/2015 2:25:33 | 50.85 | 49.45 | 231 | 4.09 | 0.39 | 12.6 |
| 4/27/2015 2:25:40 | 51.18 | 49.78 | 32 | 3.64 | 0.37 | 1.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:25:41 | 51.51 | 50.11 | 127 | 3.93 | 0.38 | 6.9 |
| 4/27/2015 | 2:25:43 | 51.84 | 50.44 | 213 | 2.84 | 0.39 | 11.6 |
| 4/27/2015 | 2:28:14 | 52.17 | 50.77 | 0 | 5.61 | 0.39 | 0.0 |
| 4/27/2015 | 2:28:18 | 52.49 | 51.09 | 109 | 3.03 | 0.39 | 6.0 |
| 4/27/2015 | 2:28:22 | 52.82 | 51.42 | 75 | 3.23 | 0.40 | 4.1 |
| 4/27/2015 | 2:28:27 | 53.15 | 51.75 | 83 | 3.56 | 0.40 | 4.5 |
| 4/27/2015 | 2:28:31 | 53.48 | 52.08 | 87 | 2.76 | 0.40 | 4.7 |
| 4/27/2015 | 2:28:35 | 53.81 | 52.41 | 77 | 3.92 | 0.40 | 4.2 |
| 4/27/2015 | 2:28:40 | 54.13 | 52.73 | 79 | 3.79 | 0.40 | 4.3 |
| 4/27/2015 | 2:28:45 | 54.46 | 53.06 | 71 | 3.51 | 0.40 | 3.9 |
| 4/27/2015 | 2:28:49 | 54.79 | 53.39 | 89 | 3.28 | 0.40 | 4.9 |
| 4/27/2015 | 2:28:53 | 55.12 | 53.72 | 86 | 4.17 | 0.39 | 4.7 |
| 4/27/2015 | 2:28:57 | 55.45 | 54.05 | 75 | 3.62 | 0.40 | 4.1 |
| 4/27/2015 | 2:29:02 | 55.77 | 54.37 | 72 | 3.86 | 0.40 | 4.0 |
| 4/27/2015 | 2:29:08 | 56.10 | 54.70 | 71 | 3.64 | 0.40 | 3.9 |
| 4/27/2015 | 2:29:12 | 56.43 | 55.03 | 75 | 3.43 | 0.40 | 4.1 |
| 4/27/2015 | 2:29:13 | 56.50 | 55.10 | 77 | 3.39 | 0.39 | 4.2 |

## H344 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:23:29

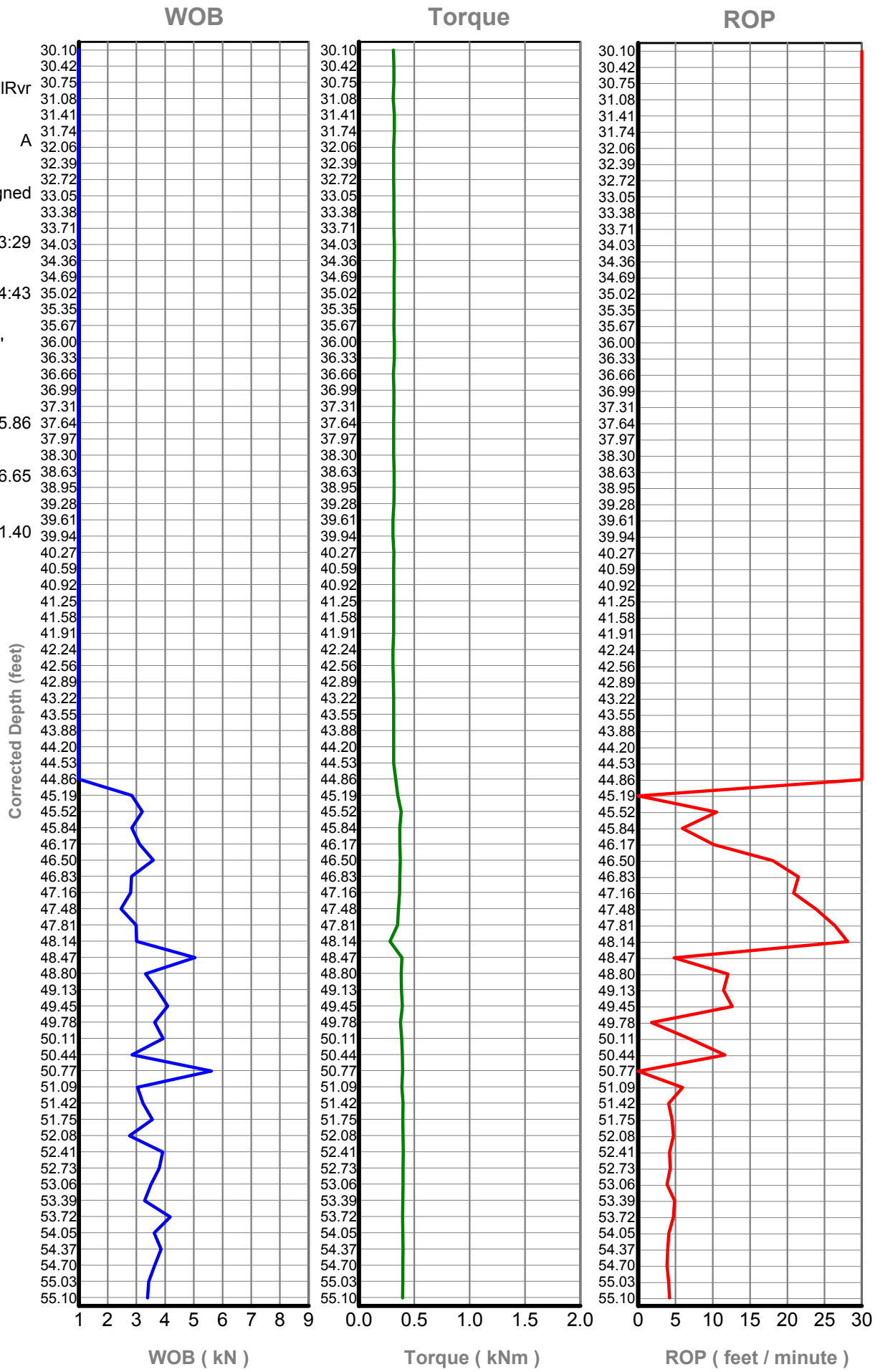
**End Date:**
4/27/2015 2:34:43

**Operator Note:**
'1.4 1.5b Auto Complete'

**Northing:**
365,455.86

**Easting:**
249,776.65

**Tide (feet):**
1.40



## Hole: H345 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 2:20:34 | 31.50 | 30.10 | 593 | 1.76 | 0.31 | 32.4 |
| 4/27/2015 2:20:34 | 31.82 | 30.42 | 596 | 1.80 | 0.31 | 32.6 |
| 4/27/2015 2:20:35 | 32.15 | 30.75 | 577 | 1.79 | 0.31 | 31.6 |
| 4/27/2015 2:20:35 | 32.48 | 31.08 | 577 | 1.75 | 0.31 | 31.6 |
| 4/27/2015 2:20:36 | 32.81 | 31.41 | 589 | 1.77 | 0.31 | 32.2 |
| 4/27/2015 2:20:37 | 33.14 | 31.74 | 588 | 1.78 | 0.31 | 32.2 |
| 4/27/2015 2:20:38 | 33.46 | 32.06 | 585 | 1.77 | 0.25 | 32.0 |
| 4/27/2015 2:20:38 | 33.79 | 32.39 | 600 | 1.76 | 0.31 | 32.8 |
| 4/27/2015 2:20:39 | 34.12 | 32.72 | 593 | 1.79 | 0.31 | 32.4 |
| 4/27/2015 2:20:39 | 34.45 | 33.05 | 590 | 1.78 | 0.31 | 32.2 |
| 4/27/2015 2:20:40 | 34.78 | 33.38 | 577 | 1.76 | 0.31 | 31.6 |
| 4/27/2015 2:20:40 | 35.11 | 33.71 | 577 | 1.78 | 0.31 | 31.6 |
| 4/27/2015 2:20:41 | 35.43 | 34.03 | 590 | 1.76 | 0.31 | 32.2 |
| 4/27/2015 2:20:42 | 35.76 | 34.36 | 583 | 1.79 | 0.31 | 31.9 |
| 4/27/2015 2:20:42 | 36.09 | 34.69 | 583 | 1.74 | 0.31 | 31.9 |
| 4/27/2015 2:20:43 | 36.42 | 35.02 | 599 | 1.77 | 0.31 | 32.8 |
| 4/27/2015 2:20:43 | 36.75 | 35.35 | 590 | 1.79 | 0.31 | 32.3 |
| 4/27/2015 2:20:44 | 37.07 | 35.67 | 587 | 1.76 | 0.31 | 32.1 |
| 4/27/2015 2:20:45 | 37.40 | 36.00 | 590 | 1.78 | 0.31 | 32.2 |
| 4/27/2015 2:20:45 | 37.73 | 36.33 | 590 | 1.79 | 0.31 | 32.2 |
| 4/27/2015 2:20:46 | 38.06 | 36.66 | 587 | 1.77 | 0.32 | 32.1 |
| 4/27/2015 2:20:46 | 38.39 | 36.99 | 586 | 1.78 | 0.31 | 32.1 |
| 4/27/2015 2:20:47 | 38.71 | 37.31 | 590 | 1.76 | 0.31 | 32.2 |
| 4/27/2015 2:20:48 | 39.04 | 37.64 | 590 | 1.81 | 0.31 | 32.2 |
| 4/27/2015 2:20:49 | 39.37 | 37.97 | 590 | 1.80 | 0.31 | 32.2 |
| 4/27/2015 2:20:49 | 39.70 | 38.30 | 590 | 1.77 | 0.31 | 32.2 |
| 4/27/2015 2:20:50 | 40.03 | 38.63 | 590 | 1.79 | 0.31 | 32.2 |
| 4/27/2015 2:20:50 | 40.35 | 38.95 | 587 | 1.76 | 0.31 | 32.1 |
| 4/27/2015 2:20:51 | 40.68 | 39.28 | 586 | 1.76 | 0.31 | 32.1 |
| 4/27/2015 2:20:51 | 41.01 | 39.61 | 590 | 1.76 | 0.31 | 32.2 |
| 4/27/2015 2:20:52 | 41.34 | 39.94 | 587 | 1.77 | 0.31 | 32.1 |
| 4/27/2015 2:20:53 | 41.67 | 40.27 | 590 | 1.77 | 0.31 | 32.2 |
| 4/27/2015 2:20:53 | 41.99 | 40.59 | 590 | 1.78 | 0.31 | 32.2 |
| 4/27/2015 2:20:54 | 42.32 | 40.92 | 587 | 1.79 | 0.31 | 32.1 |
| 4/27/2015 2:20:54 | 42.65 | 41.25 | 587 | 1.76 | 0.38 | 32.1 |
| 4/27/2015 2:20:55 | 42.98 | 41.58 | 577 | 1.79 | 0.31 | 31.6 |
| 4/27/2015 2:20:56 | 43.31 | 41.91 | 574 | 1.79 | 0.31 | 31.4 |
| 4/27/2015 2:20:56 | 43.64 | 42.24 | 580 | 1.77 | 0.31 | 31.7 |
| 4/27/2015 2:20:57 | 43.96 | 42.56 | 576 | 1.79 | 0.31 | 31.5 |
| 4/27/2015 2:20:58 | 44.29 | 42.89 | 586 | 1.82 | 0.31 | 32.0 |
| 4/27/2015 2:20:58 | 44.62 | 43.22 | 589 | 1.79 | 0.31 | 32.2 |
| 4/27/2015 2:20:59 | 44.95 | 43.55 | 593 | 1.81 | 0.31 | 32.4 |
| 4/27/2015 2:21:00 | 45.28 | 43.88 | 591 | 1.78 | 0.31 | 32.3 |
| 4/27/2015 2:21:00 | 45.60 | 44.20 | 584 | 1.78 | 0.31 | 31.9 |
| 4/27/2015 2:21:01 | 45.93 | 44.53 | 584 | 1.81 | 0.31 | 31.9 |
| 4/27/2015 2:21:01 | 46.26 | 44.86 | 581 | 1.81 | 0.31 | 31.8 |
| 4/27/2015 2:21:02 | 46.59 | 45.19 | 584 | 1.76 | 0.31 | 31.9 |
| 4/27/2015 2:21:27 | 46.92 | 45.52 | 0 | 1.79 | 1.01 | 0.0 |
| 4/27/2015 2:21:28 | 47.24 | 45.84 | 132 | 1.78 | 1.17 | 7.2 |
| 4/27/2015 2:21:29 | 47.57 | 46.17 | 232 | 1.73 | 1.18 | 12.7 |
| 4/27/2015 2:21:45 | 47.90 | 46.50 | 0 | 1.76 | 0.89 | 0.0 |
| 4/27/2015 2:21:46 | 48.23 | 46.83 | 217 | 1.77 | 1.52 | 11.9 |
| 4/27/2015 2:21:48 | 48.56 | 47.16 | 292 | 1.79 | 1.10 | 16.0 |
| 4/27/2015 2:22:01 | 48.88 | 47.48 | 33 | 1.74 | 1.05 | 1.8 |
| 4/27/2015 2:22:02 | 49.21 | 47.81 | 139 | 1.77 | 1.15 | 7.6 |
| 4/27/2015 2:22:04 | 49.54 | 48.14 | 202 | 1.74 | 1.18 | 11.0 |
| 4/27/2015 2:22:05 | 49.87 | 48.47 | 216 | 1.75 | 1.18 | 11.8 |
| 4/27/2015 2:22:17 | 50.20 | 48.80 | 15 | 1.76 | 1.14 | 0.8 |
| 4/27/2015 2:22:20 | 50.53 | 49.13 | 130 | 1.68 | 0.98 | 7.1 |
| 4/27/2015 2:22:21 | 50.85 | 49.45 | 192 | 1.78 | 1.17 | 10.5 |
| 4/27/2015 2:22:34 | 51.18 | 49.78 | 44 | 1.74 | 1.20 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 2:22:35 | 51.51 | 50.11 | 110 | 1.79 | 1.15 | 6.0 |
| 4/27/2015 | 2:22:37 | 51.84 | 50.44 | 192 | 1.74 | 1.16 | 10.5 |
| 4/27/2015 | 2:22:39 | 52.17 | 50.77 | 210 | 1.76 | 1.11 | 11.5 |
| 4/27/2015 | 2:22:41 | 52.49 | 51.09 | 210 | 1.79 | 1.07 | 11.5 |
| 4/27/2015 | 2:22:42 | 52.82 | 51.42 | 207 | 1.71 | 1.19 | 11.3 |
| 4/27/2015 | 2:22:44 | 53.15 | 51.75 | 213 | 1.72 | 1.25 | 11.7 |
| 4/27/2015 | 2:22:46 | 53.48 | 52.08 | 214 | 1.76 | 1.12 | 11.7 |
| 4/27/2015 | 2:22:47 | 53.81 | 52.41 | 207 | 1.79 | 1.13 | 11.3 |
| 4/27/2015 | 2:22:51 | 54.13 | 52.73 | 76 | 1.73 | 1.14 | 4.2 |
| 4/27/2015 | 2:23:00 | 54.46 | 53.06 | 38 | 1.77 | 1.08 | 2.1 |
| 4/27/2015 | 2:23:07 | 54.79 | 53.39 | 35 | 1.78 | 1.14 | 1.9 |
| 4/27/2015 | 2:23:20 | 55.12 | 53.72 | 29 | 1.79 | 1.15 | 1.6 |
| 4/27/2015 | 2:23:22 | 55.18 | 53.78 | 29 | 1.79 | 1.01 | 1.6 |

## H345 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 2:19:11

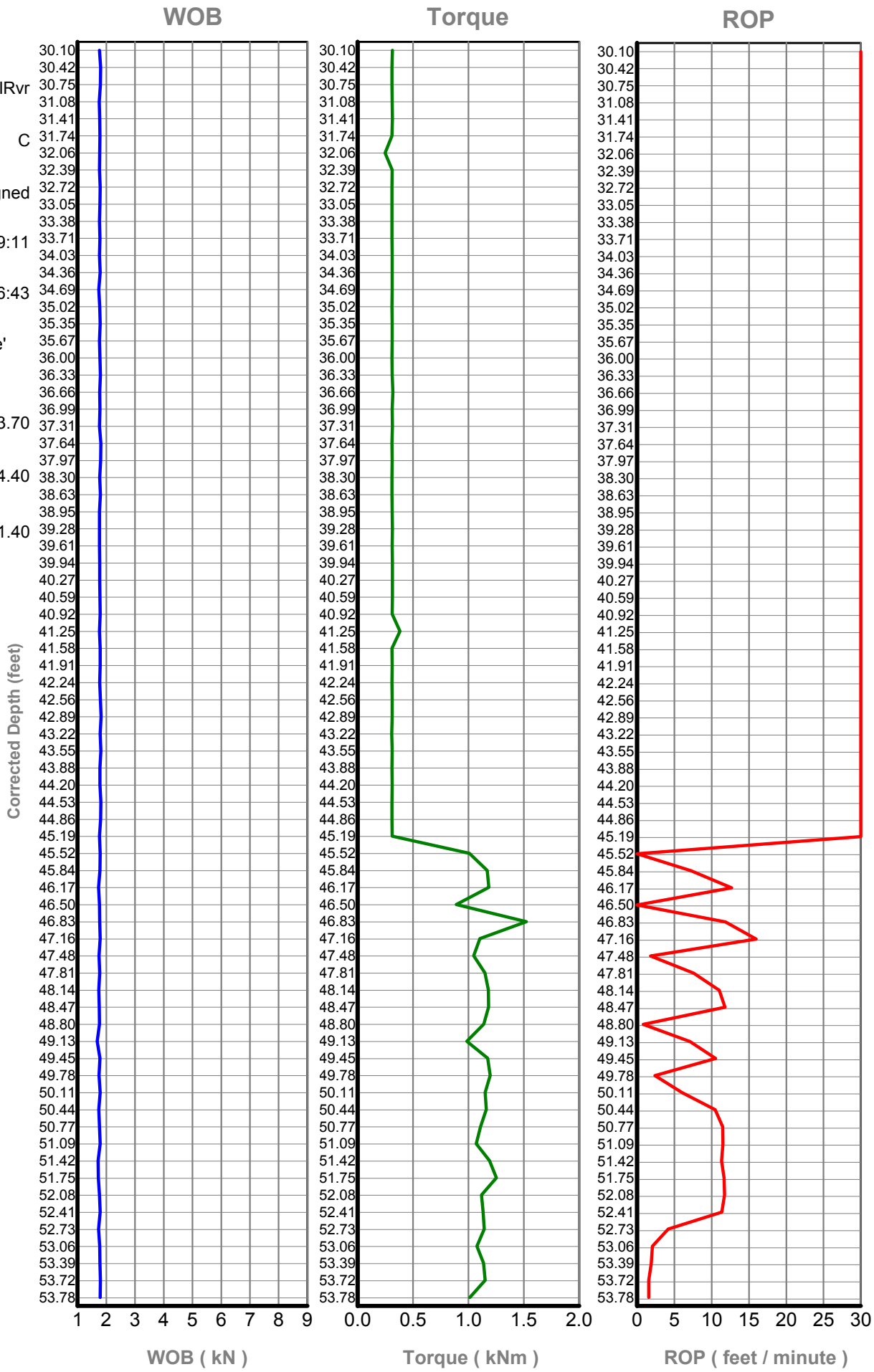
**End Date:**
4/27/2015 2:26:43

**Operator Note:**
'1.4 1.6 c Auto Complete'

**Northing:**
365,503.70

**Easting:**
249,834.40

**Tide (feet):**
1.40



## Hole: H347 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:49:04 | 35.43 | 30.23 | 1,127 | 0.26 | 0.31 | 61.6 |
| 4/26/2015 17:49:05 | 35.76 | 30.56 | 1,127 | 0.27 | 0.31 | 61.6 |
| 4/26/2015 17:49:05 | 36.09 | 30.89 | 1,127 | 0.27 | 0.31 | 61.6 |
| 4/26/2015 17:49:05 | 36.42 | 31.22 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/26/2015 17:49:06 | 36.75 | 31.55 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/26/2015 17:49:06 | 37.07 | 31.87 | 1,118 | 0.27 | 0.31 | 61.1 |
| 4/26/2015 17:49:06 | 37.40 | 32.20 | 1,119 | 0.26 | 0.30 | 61.2 |
| 4/26/2015 17:49:07 | 37.73 | 32.53 | 1,119 | 0.26 | 0.30 | 61.2 |
| 4/26/2015 17:49:07 | 38.06 | 32.86 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/26/2015 17:49:08 | 38.39 | 33.19 | 1,119 | 0.26 | 0.31 | 61.2 |
| 4/26/2015 17:49:08 | 38.71 | 33.51 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/26/2015 17:49:08 | 39.04 | 33.84 | 1,126 | 0.27 | 0.30 | 61.5 |
| 4/26/2015 17:49:09 | 39.37 | 34.17 | 1,126 | 0.27 | 0.30 | 61.5 |
| 4/26/2015 17:49:09 | 39.70 | 34.50 | 1,126 | 0.27 | 0.31 | 61.5 |
| 4/26/2015 17:49:09 | 40.03 | 34.83 | 1,122 | 0.27 | 0.31 | 61.3 |
| 4/26/2015 17:49:10 | 40.35 | 35.15 | 1,122 | 0.27 | 0.31 | 61.3 |
| 4/26/2015 17:49:10 | 40.68 | 35.48 | 1,103 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 17:49:10 | 41.01 | 35.81 | 1,103 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 17:49:10 | 41.34 | 36.14 | 1,103 | 0.27 | 0.30 | 60.3 |
| 4/26/2015 17:49:11 | 41.67 | 36.47 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 17:49:11 | 41.99 | 36.79 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 17:49:11 | 42.32 | 37.12 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 17:49:12 | 42.65 | 37.45 | 1,093 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 17:49:12 | 42.98 | 37.78 | 1,093 | 0.27 | 0.30 | 59.8 |
| 4/26/2015 17:49:12 | 43.31 | 38.11 | 1,088 | 0.27 | 0.30 | 59.5 |
| 4/26/2015 17:49:13 | 43.64 | 38.44 | 1,088 | 0.27 | 0.30 | 59.5 |
| 4/26/2015 17:49:13 | 43.96 | 38.76 | 1,102 | 0.26 | 0.31 | 60.3 |
| 4/26/2015 17:49:13 | 44.29 | 39.09 | 1,102 | 0.26 | 0.31 | 60.3 |
| 4/26/2015 17:49:13 | 44.62 | 39.42 | 1,108 | 0.27 | 0.30 | 60.6 |
| 4/26/2015 17:49:14 | 44.95 | 39.75 | 1,115 | 0.27 | 0.31 | 61.0 |
| 4/26/2015 17:49:14 | 45.28 | 40.08 | 1,115 | 0.27 | 0.31 | 61.0 |
| 4/26/2015 17:49:14 | 45.60 | 40.40 | 1,115 | 0.26 | 0.31 | 61.0 |
| 4/26/2015 17:49:15 | 45.93 | 40.73 | 1,140 | 0.26 | 0.31 | 62.3 |
| 4/26/2015 17:49:16 | 46.26 | 41.06 | 1,140 | 0.26 | 0.31 | 62.3 |
| 4/26/2015 17:49:16 | 46.59 | 41.39 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 17:49:16 | 46.92 | 41.72 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/26/2015 17:49:16 | 47.24 | 42.04 | 1,089 | 0.26 | 0.31 | 59.6 |
| 4/26/2015 17:49:16 | 47.57 | 42.37 | 1,089 | 0.26 | 0.32 | 59.6 |
| 4/26/2015 17:49:17 | 47.90 | 42.70 | 1,089 | 0.26 | 0.32 | 59.6 |
| 4/26/2015 17:49:17 | 48.23 | 43.03 | 1,117 | 0.27 | 0.31 | 61.1 |
| 4/26/2015 17:49:17 | 48.56 | 43.36 | 1,086 | 0.27 | 0.31 | 59.4 |
| 4/26/2015 17:49:18 | 48.88 | 43.68 | 1,086 | 0.27 | 0.31 | 59.4 |
| 4/26/2015 17:49:18 | 49.21 | 44.01 | 1,086 | 0.27 | 0.31 | 59.4 |
| 4/26/2015 17:49:18 | 49.54 | 44.34 | 1,086 | 0.27 | 0.31 | 59.4 |
| 4/26/2015 17:49:19 | 49.87 | 44.67 | 1,083 | 0.27 | 0.31 | 59.2 |
| 4/26/2015 17:49:19 | 50.20 | 45.00 | 1,088 | 0.26 | 0.32 | 59.5 |
| 4/26/2015 17:49:20 | 50.53 | 45.33 | 1,088 | 0.26 | 0.32 | 59.5 |
| 4/26/2015 17:49:23 | 50.85 | 45.65 | 175 | 2.90 | 0.37 | 9.6 |
| 4/26/2015 17:49:25 | 51.18 | 45.98 | 162 | 7.98 | 0.40 | 8.9 |
| 4/26/2015 17:49:28 | 51.51 | 46.31 | 140 | 5.62 | 0.40 | 7.6 |
| 4/26/2015 17:49:30 | 51.84 | 46.64 | 90 | 3.94 | 0.36 | 4.9 |
| 4/26/2015 17:49:34 | 52.17 | 46.97 | 0 | 4.12 | 0.37 | 0.0 |
| 4/26/2015 17:49:40 | 52.49 | 47.29 | 31 | 3.48 | 0.39 | 1.7 |
| 4/26/2015 17:49:41 | 52.82 | 47.62 | 182 | 4.19 | 0.40 | 10.0 |
| 4/26/2015 17:49:43 | 53.15 | 47.95 | 172 | 4.08 | 0.36 | 9.4 |
| 4/26/2015 17:49:58 | 53.48 | 48.28 | 0 | 4.23 | 0.37 | 0.0 |
| 4/26/2015 17:50:00 | 53.81 | 48.61 | 122 | 2.61 | 0.36 | 6.7 |
| 4/26/2015 17:50:00 | 54.13 | 48.93 | 122 | 2.33 | 0.35 | 6.7 |
| 4/26/2015 17:50:12 | 54.46 | 49.26 | 6 | 2.92 | 0.36 | 0.3 |
| 4/26/2015 17:50:12 | 54.79 | 49.59 | 112 | 2.29 | 0.34 | 6.1 |
| 4/26/2015 17:50:13 | 55.12 | 49.92 | 243 | 2.40 | 0.35 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:50:13 | 55.45 | 50.25 | 386 | 1.94 | 0.35 | 21.1 |
| 4/26/2015 | 17:50:14 | 55.77 | 50.57 | 526 | 3.16 | 0.36 | 28.8 |
| 4/26/2015 | 17:50:15 | 56.10 | 50.90 | 606 | 4.38 | 0.37 | 33.1 |
| 4/26/2015 | 17:50:16 | 56.43 | 51.23 | 536 | 4.07 | 0.37 | 29.3 |
| 4/26/2015 | 17:50:25 | 56.76 | 51.56 | 0 | 3.42 | 0.37 | 0.0 |
| 4/26/2015 | 17:50:26 | 57.09 | 51.89 | 140 | 3.59 | 0.36 | 7.7 |
| 4/26/2015 | 17:50:26 | 57.41 | 52.21 | 234 | 2.86 | 0.36 | 12.8 |
| 4/26/2015 | 17:50:27 | 57.74 | 52.54 | 434 | 2.17 | 0.35 | 23.7 |
| 4/26/2015 | 17:50:28 | 58.07 | 52.87 | 492 | 1.93 | 0.36 | 26.9 |
| 4/26/2015 | 17:50:28 | 58.40 | 53.20 | 543 | 1.86 | 0.35 | 29.7 |
| 4/26/2015 | 17:50:29 | 58.73 | 53.53 | 593 | 1.86 | 0.35 | 32.4 |
| 4/26/2015 | 17:50:29 | 59.06 | 53.86 | 615 | 1.96 | 0.35 | 33.7 |
| 4/26/2015 | 17:50:30 | 59.38 | 54.18 | 615 | 1.93 | 0.34 | 33.7 |
| 4/26/2015 | 17:50:31 | 59.71 | 54.51 | 667 | 2.00 | 0.34 | 36.5 |
| 4/26/2015 | 17:50:31 | 60.04 | 54.84 | 687 | 2.03 | 0.35 | 37.6 |
| 4/26/2015 | 17:50:31 | 60.29 | 55.09 | 687 | 2.03 | 0.35 | 37.6 |

## H347 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:47:34

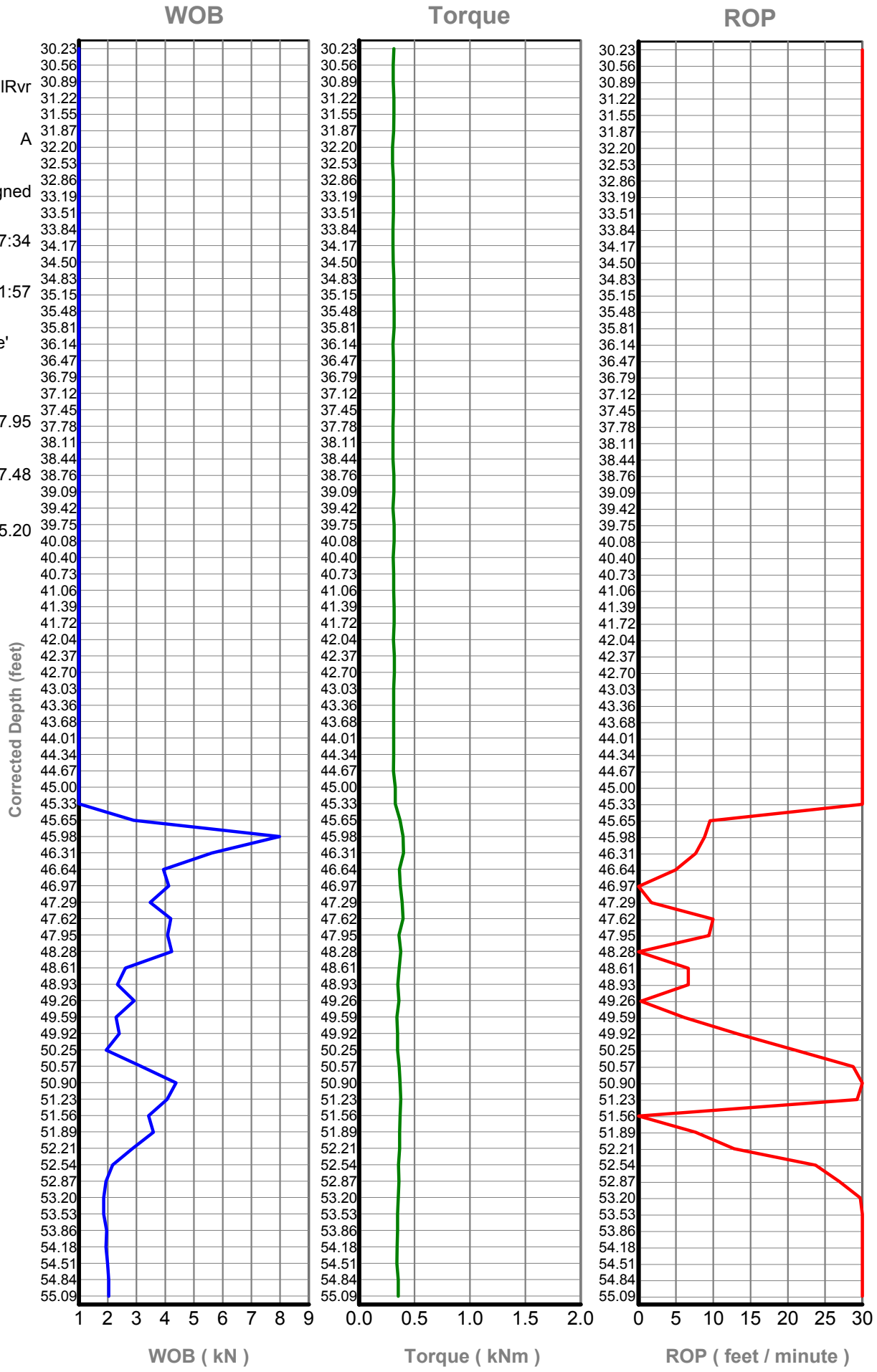
**End Date:**
4/26/2015 17:51:57

**Operator Note:**
'5.2 5.0 b Auto Complete'

**Northing:**
365,567.95

**Easting:**
249,917.48

**Tide (feet):**
5.20



## Hole: H348 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:53:47 | 35.43 | 30.13 | 1,161 | 0.27 | 0.30 | 63.5 |
| 4/26/2015 17:53:48 | 35.76 | 30.46 | 1,161 | 0.27 | 0.30 | 63.5 |
| 4/26/2015 17:53:48 | 36.09 | 30.79 | 1,148 | 0.27 | 0.30 | 62.8 |
| 4/26/2015 17:53:49 | 36.42 | 31.12 | 1,148 | 0.27 | 0.31 | 62.8 |
| 4/26/2015 17:53:49 | 36.75 | 31.45 | 1,148 | 0.27 | 0.31 | 62.8 |
| 4/26/2015 17:53:49 | 37.07 | 31.77 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:50 | 37.40 | 32.10 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:50 | 37.73 | 32.43 | 1,130 | 0.28 | 0.31 | 61.8 |
| 4/26/2015 17:53:50 | 38.06 | 32.76 | 1,130 | 0.27 | 0.30 | 61.8 |
| 4/26/2015 17:53:51 | 38.39 | 33.09 | 1,130 | 0.27 | 0.30 | 61.8 |
| 4/26/2015 17:53:51 | 38.71 | 33.41 | 1,131 | 0.27 | 0.30 | 61.8 |
| 4/26/2015 17:53:51 | 39.04 | 33.74 | 1,131 | 0.27 | 0.30 | 61.8 |
| 4/26/2015 17:53:51 | 39.37 | 34.07 | 1,131 | 0.27 | 0.30 | 61.8 |
| 4/26/2015 17:53:52 | 39.70 | 34.40 | 1,137 | 0.28 | 0.30 | 62.2 |
| 4/26/2015 17:53:52 | 40.03 | 34.73 | 1,137 | 0.28 | 0.30 | 62.2 |
| 4/26/2015 17:53:52 | 40.35 | 35.05 | 1,143 | 0.29 | 0.30 | 62.5 |
| 4/26/2015 17:53:53 | 40.68 | 35.38 | 1,143 | 0.29 | 0.30 | 62.5 |
| 4/26/2015 17:53:53 | 41.01 | 35.71 | 1,159 | 0.27 | 0.30 | 63.4 |
| 4/26/2015 17:53:53 | 41.34 | 36.04 | 1,148 | 0.27 | 0.30 | 62.8 |
| 4/26/2015 17:53:54 | 41.67 | 36.37 | 1,148 | 0.27 | 0.30 | 62.8 |
| 4/26/2015 17:53:54 | 41.99 | 36.69 | 1,148 | 0.28 | 0.31 | 62.8 |
| 4/26/2015 17:53:54 | 42.32 | 37.02 | 1,148 | 0.28 | 0.31 | 62.8 |
| 4/26/2015 17:53:54 | 42.65 | 37.35 | 1,131 | 0.28 | 0.30 | 61.9 |
| 4/26/2015 17:53:55 | 42.98 | 37.68 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:55 | 43.31 | 38.01 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:55 | 43.64 | 38.34 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:56 | 43.96 | 38.66 | 1,142 | 0.28 | 0.30 | 62.5 |
| 4/26/2015 17:53:56 | 44.29 | 38.99 | 1,145 | 0.28 | 0.30 | 62.6 |
| 4/26/2015 17:53:56 | 44.62 | 39.32 | 1,139 | 0.28 | 0.30 | 62.3 |
| 4/26/2015 17:53:57 | 44.95 | 39.65 | 1,139 | 0.28 | 0.30 | 62.3 |
| 4/26/2015 17:53:57 | 45.28 | 39.98 | 1,122 | 0.28 | 0.30 | 61.3 |
| 4/26/2015 17:53:57 | 45.60 | 40.30 | 1,122 | 0.28 | 0.30 | 61.3 |
| 4/26/2015 17:53:58 | 45.93 | 40.63 | 1,122 | 0.27 | 0.30 | 61.3 |
| 4/26/2015 17:53:58 | 46.26 | 40.96 | 1,103 | 0.28 | 0.30 | 60.3 |
| 4/26/2015 17:53:58 | 46.59 | 41.29 | 1,103 | 0.28 | 0.30 | 60.3 |
| 4/26/2015 17:53:59 | 46.92 | 41.62 | 1,103 | 0.28 | 0.30 | 60.3 |
| 4/26/2015 17:53:59 | 47.24 | 41.94 | 1,103 | 0.28 | 0.30 | 60.3 |
| 4/26/2015 17:53:59 | 47.57 | 42.27 | 1,118 | 0.28 | 0.30 | 61.1 |
| 4/26/2015 17:54:00 | 47.90 | 42.60 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/26/2015 17:54:00 | 48.23 | 42.93 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/26/2015 17:54:00 | 48.56 | 43.26 | 1,093 | 0.28 | 0.30 | 59.8 |
| 4/26/2015 17:54:01 | 48.88 | 43.58 | 1,093 | 0.28 | 0.30 | 59.8 |
| 4/26/2015 17:54:01 | 49.21 | 43.91 | 1,134 | 0.28 | 0.30 | 62.0 |
| 4/26/2015 17:54:01 | 49.54 | 44.24 | 1,100 | 0.28 | 0.30 | 60.1 |
| 4/26/2015 17:54:02 | 49.87 | 44.57 | 1,100 | 0.28 | 0.30 | 60.1 |
| 4/26/2015 17:54:02 | 50.20 | 44.90 | 1,115 | 0.28 | 0.31 | 61.0 |
| 4/26/2015 17:54:02 | 50.53 | 45.23 | 1,115 | 0.27 | 0.33 | 61.0 |
| 4/26/2015 17:54:03 | 50.85 | 45.55 | 1,115 | 0.27 | 0.33 | 61.0 |
| 4/26/2015 17:54:06 | 51.18 | 45.88 | 196 | 2.80 | 0.37 | 10.7 |
| 4/26/2015 17:54:09 | 51.51 | 46.21 | 154 | 4.66 | 0.36 | 8.4 |
| 4/26/2015 17:54:13 | 51.84 | 46.54 | 51 | 5.70 | 0.35 | 2.8 |
| 4/26/2015 17:54:13 | 52.17 | 46.87 | 143 | 1.91 | 0.33 | 7.8 |
| 4/26/2015 17:54:14 | 52.49 | 47.19 | 284 | 1.83 | 0.24 | 15.5 |
| 4/26/2015 17:54:21 | 52.82 | 47.52 | 9 | 5.28 | 0.37 | 0.5 |
| 4/26/2015 17:54:27 | 53.15 | 47.85 | 0 | 5.59 | 0.36 | 0.0 |
| 4/26/2015 17:54:31 | 53.48 | 48.18 | 70 | 3.33 | 0.37 | 3.8 |
| 4/26/2015 17:54:32 | 53.81 | 48.51 | 172 | 6.81 | 0.37 | 9.4 |
| 4/26/2015 17:54:33 | 54.13 | 48.83 | 235 | 4.28 | 0.38 | 12.8 |
| 4/26/2015 17:54:34 | 54.46 | 49.16 | 293 | 4.62 | 0.37 | 16.0 |
| 4/26/2015 17:54:44 | 54.79 | 49.49 | 49 | 5.75 | 0.39 | 2.7 |
| 4/26/2015 17:54:46 | 55.12 | 49.82 | 217 | 4.99 | 0.38 | 11.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:54:51 | 55.45 | 50.15 | 0 | 4.87 | 0.37 | 0.0 |
| 4/26/2015 | 17:54:53 | 55.77 | 50.47 | 148 | 5.59 | 0.38 | 8.1 |
| 4/26/2015 | 17:54:55 | 56.10 | 50.80 | 182 | 4.76 | 0.41 | 9.9 |
| 4/26/2015 | 17:54:56 | 56.43 | 51.13 | 234 | 3.67 | 0.37 | 12.8 |
| 4/26/2015 | 17:54:57 | 56.76 | 51.46 | 273 | 3.31 | 0.36 | 14.9 |
| 4/26/2015 | 17:54:58 | 57.09 | 51.79 | 312 | 2.80 | 0.36 | 17.1 |
| 4/26/2015 | 17:55:12 | 57.41 | 52.11 | 0 | 2.45 | 0.36 | 0.0 |
| 4/26/2015 | 17:55:12 | 57.74 | 52.44 | 59 | 2.13 | 0.36 | 3.2 |
| 4/26/2015 | 17:55:13 | 58.07 | 52.77 | 273 | 2.17 | 0.36 | 14.9 |
| 4/26/2015 | 17:55:14 | 58.40 | 53.10 | 391 | 3.26 | 0.36 | 21.4 |
| 4/26/2015 | 17:55:14 | 58.73 | 53.43 | 511 | 4.57 | 0.37 | 27.9 |
| 4/26/2015 | 17:55:15 | 59.06 | 53.76 | 497 | 2.52 | 0.38 | 27.2 |
| 4/26/2015 | 17:55:17 | 59.38 | 54.08 | 212 | 5.12 | 0.39 | 11.6 |
| 4/26/2015 | 17:55:18 | 59.71 | 54.41 | 189 | 2.55 | 0.36 | 10.3 |
| 4/26/2015 | 17:55:19 | 60.04 | 54.74 | 264 | 2.44 | 0.37 | 14.4 |
| 4/26/2015 | 17:55:20 | 60.32 | 55.02 | 310 | 2.86 | 0.38 | 16.9 |

## H348 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:52:00

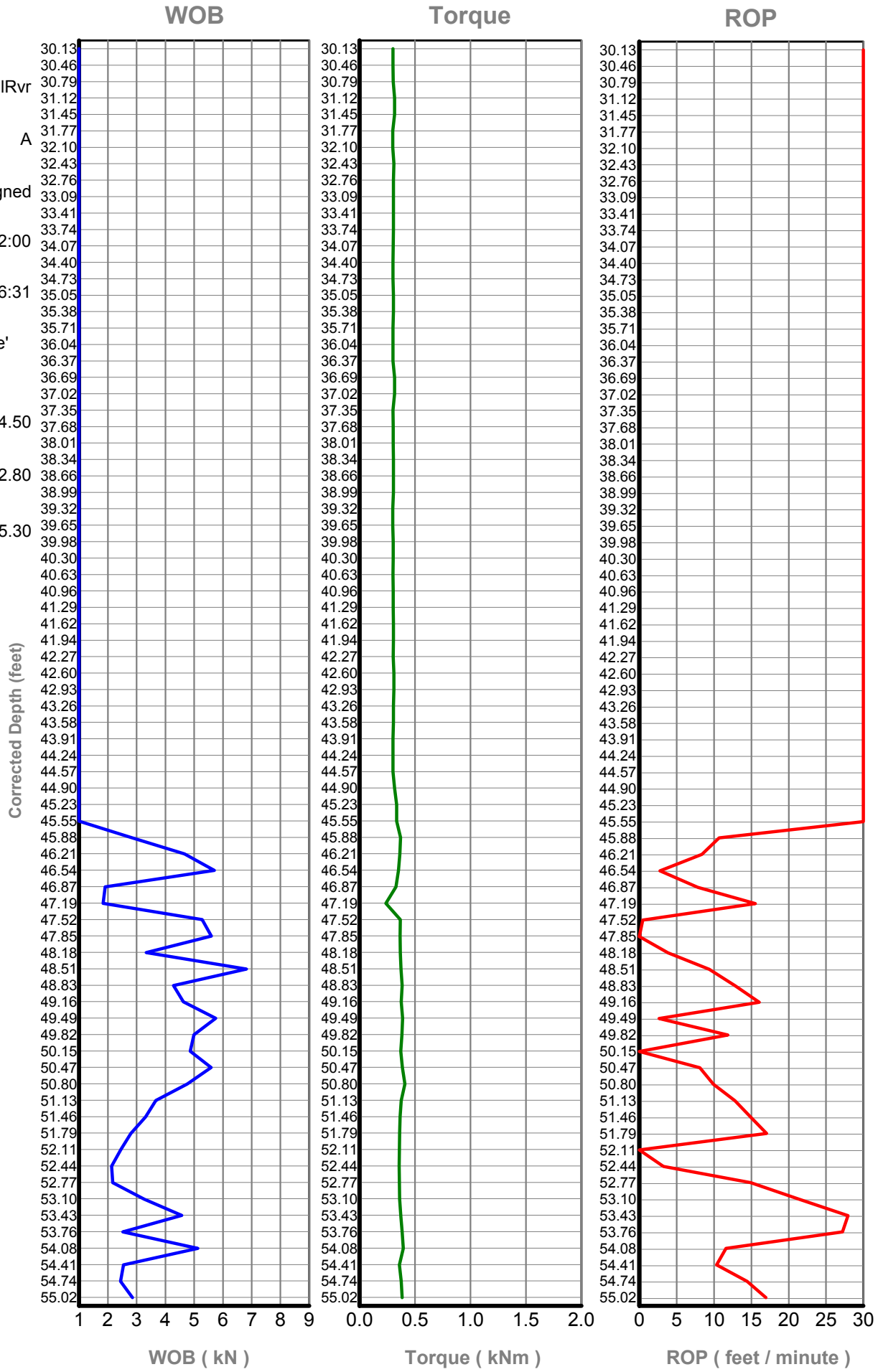
**End Date:**
4/26/2015 17:56:31

**Operator Note:**
'5.3 5.1 b Auto Complete'

**Northing:**
365,604.50

**Easting:**
249,962.80

**Tide (feet):**
5.30



## Hole: H349 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:51:31 | 35.43 | 30.13 | 691 | 1.75 | 0.26 | 37.8 |
| 4/26/2015 17:51:31 | 35.76 | 30.46 | 691 | 1.76 | 0.27 | 37.8 |
| 4/26/2015 17:51:32 | 36.09 | 30.79 | 691 | 1.75 | 0.27 | 37.8 |
| 4/26/2015 17:51:32 | 36.42 | 31.12 | 698 | 1.75 | 0.27 | 38.2 |
| 4/26/2015 17:51:33 | 36.75 | 31.45 | 691 | 1.74 | 0.27 | 37.8 |
| 4/26/2015 17:51:33 | 37.07 | 31.77 | 691 | 1.74 | 0.27 | 37.8 |
| 4/26/2015 17:51:34 | 37.40 | 32.10 | 687 | 1.75 | 0.28 | 37.6 |
| 4/26/2015 17:51:34 | 37.73 | 32.43 | 694 | 1.76 | 0.27 | 37.9 |
| 4/26/2015 17:51:35 | 38.06 | 32.76 | 688 | 1.75 | 0.28 | 37.6 |
| 4/26/2015 17:51:36 | 38.39 | 33.09 | 688 | 1.74 | 0.27 | 37.6 |
| 4/26/2015 17:51:36 | 38.71 | 33.41 | 688 | 1.76 | 0.27 | 37.6 |
| 4/26/2015 17:51:37 | 39.04 | 33.74 | 692 | 1.74 | 0.28 | 37.9 |
| 4/26/2015 17:51:37 | 39.37 | 34.07 | 685 | 1.74 | 0.27 | 37.5 |
| 4/26/2015 17:51:38 | 39.70 | 34.40 | 685 | 1.76 | 0.27 | 37.5 |
| 4/26/2015 17:51:38 | 40.03 | 34.73 | 688 | 1.76 | 0.27 | 37.6 |
| 4/26/2015 17:51:39 | 40.35 | 35.05 | 691 | 1.75 | 0.27 | 37.8 |
| 4/26/2015 17:51:39 | 40.68 | 35.38 | 688 | 1.76 | 0.27 | 37.6 |
| 4/26/2015 17:51:52 | 41.01 | 35.71 | 0 | 1.33 | 0.27 | 0.0 |
| 4/26/2015 17:51:52 | 41.01 | 35.71 | 0 | 1.33 | 0.27 | 0.0 |
| 4/26/2015 17:55:06 | 41.34 | 36.04 | 656 | 1.75 | 0.27 | 35.9 |
| 4/26/2015 17:55:07 | 41.67 | 36.37 | 653 | 1.76 | 0.27 | 35.7 |
| 4/26/2015 17:55:07 | 41.99 | 36.69 | 653 | 1.74 | 0.27 | 35.7 |
| 4/26/2015 17:55:08 | 42.32 | 37.02 | 650 | 1.76 | 0.27 | 35.6 |
| 4/26/2015 17:55:08 | 42.65 | 37.35 | 643 | 1.76 | 0.27 | 35.1 |
| 4/26/2015 17:55:09 | 42.98 | 37.68 | 643 | 1.75 | 0.27 | 35.1 |
| 4/26/2015 17:55:09 | 43.31 | 38.01 | 647 | 1.74 | 0.27 | 35.4 |
| 4/26/2015 17:55:10 | 43.64 | 38.34 | 647 | 1.75 | 0.27 | 35.4 |
| 4/26/2015 17:55:10 | 43.96 | 38.66 | 633 | 1.76 | 0.27 | 34.6 |
| 4/26/2015 17:55:11 | 44.29 | 38.99 | 633 | 1.74 | 0.27 | 34.6 |
| 4/26/2015 17:55:11 | 44.62 | 39.32 | 643 | 1.79 | 0.27 | 35.1 |
| 4/26/2015 17:55:12 | 44.95 | 39.65 | 650 | 1.75 | 0.27 | 35.6 |
| 4/26/2015 17:55:12 | 45.28 | 39.98 | 643 | 1.76 | 0.27 | 35.1 |
| 4/26/2015 17:55:14 | 45.60 | 40.30 | 657 | 1.76 | 0.27 | 35.9 |
| 4/26/2015 17:55:14 | 45.93 | 40.63 | 650 | 1.74 | 0.27 | 35.6 |
| 4/26/2015 17:55:15 | 46.26 | 40.96 | 653 | 1.74 | 0.27 | 35.7 |
| 4/26/2015 17:55:15 | 46.59 | 41.29 | 657 | 1.74 | 0.27 | 35.9 |
| 4/26/2015 17:55:16 | 46.92 | 41.62 | 650 | 1.76 | 0.27 | 35.6 |
| 4/26/2015 17:55:16 | 47.24 | 41.94 | 650 | 1.74 | 0.27 | 35.6 |
| 4/26/2015 17:55:17 | 47.57 | 42.27 | 650 | 1.76 | 0.27 | 35.6 |
| 4/26/2015 17:55:17 | 47.90 | 42.60 | 648 | 1.79 | 0.27 | 35.4 |
| 4/26/2015 17:55:18 | 48.23 | 42.93 | 645 | 1.75 | 0.27 | 35.2 |
| 4/26/2015 17:55:18 | 48.56 | 43.26 | 645 | 1.76 | 0.27 | 35.2 |
| 4/26/2015 17:55:19 | 48.88 | 43.58 | 647 | 1.74 | 0.27 | 35.4 |
| 4/26/2015 17:55:19 | 49.21 | 43.91 | 645 | 1.75 | 0.27 | 35.2 |
| 4/26/2015 17:55:20 | 49.54 | 44.24 | 642 | 1.76 | 0.27 | 35.1 |
| 4/26/2015 17:55:20 | 49.87 | 44.57 | 641 | 1.75 | 0.27 | 35.0 |
| 4/26/2015 17:55:21 | 50.20 | 44.90 | 647 | 1.76 | 0.27 | 35.4 |
| 4/26/2015 17:56:07 | 50.53 | 45.23 | 14 | 1.67 | 1.33 | 0.8 |
| 4/26/2015 17:56:08 | 50.85 | 45.55 | 155 | 1.71 | 1.11 | 8.5 |
| 4/26/2015 17:56:31 | 51.18 | 45.88 | 9 | 1.72 | 1.12 | 0.5 |
| 4/26/2015 17:56:33 | 51.51 | 46.21 | 171 | 1.71 | 1.27 | 9.4 |
| 4/26/2015 17:56:34 | 51.84 | 46.54 | 213 | 1.68 | 1.02 | 11.6 |
| 4/26/2015 17:57:10 | 52.17 | 46.87 | 85 | 1.69 | 0.91 | 4.6 |
| 4/26/2015 17:57:11 | 52.49 | 47.19 | 266 | 1.70 | 1.04 | 14.5 |
| 4/26/2015 17:57:55 | 52.82 | 47.52 | 49 | 1.70 | 1.48 | 2.7 |
| 4/26/2015 17:57:57 | 53.15 | 47.85 | 172 | 1.72 | 0.96 | 9.4 |
| 4/26/2015 17:57:58 | 53.48 | 48.18 | 220 | 1.74 | 1.07 | 12.0 |
| 4/26/2015 17:58:39 | 53.81 | 48.51 | 108 | 1.73 | 1.12 | 5.9 |
| 4/26/2015 17:58:41 | 54.13 | 48.83 | 208 | 1.73 | 1.10 | 11.4 |
| 4/26/2015 17:58:43 | 54.46 | 49.16 | 205 | 1.70 | 1.04 | 11.2 |
| 4/26/2015 17:58:45 | 54.79 | 49.49 | 224 | 1.71 | 1.03 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:59:07 | 55.12 | 49.82 | 31 | 1.74 | 1.11 | 1.7 |
| 4/26/2015 | 17:59:09 | 55.45 | 50.15 | 161 | 1.73 | 1.32 | 8.8 |
| 4/26/2015 | 17:59:11 | 55.77 | 50.47 | 199 | 1.74 | 1.44 | 10.9 |
| 4/26/2015 | 17:59:12 | 56.10 | 50.80 | 197 | 1.71 | 1.08 | 10.8 |
| 4/26/2015 | 17:59:14 | 56.43 | 51.13 | 213 | 1.72 | 1.32 | 11.6 |
| 4/26/2015 | 17:59:16 | 56.76 | 51.46 | 241 | 1.77 | 0.98 | 13.2 |
| 4/26/2015 | 17:59:51 | 57.09 | 51.79 | 66 | 1.74 | 1.13 | 3.6 |
| 4/26/2015 | 17:59:53 | 57.41 | 52.11 | 211 | 1.74 | 1.48 | 11.6 |
| 4/26/2015 | 17:59:55 | 57.74 | 52.44 | 220 | 1.76 | 1.05 | 12.0 |
| 4/26/2015 | 17:59:57 | 58.07 | 52.77 | 230 | 1.73 | 1.03 | 12.6 |
| 4/26/2015 | 17:59:58 | 58.40 | 53.10 | 237 | 1.72 | 0.95 | 13.0 |
| 4/26/2015 | 17:59:59 | 58.73 | 53.43 | 263 | 1.71 | 0.89 | 14.4 |
| 4/26/2015 | 18:00:00 | 59.06 | 53.76 | 263 | 1.71 | 0.91 | 14.4 |
| 4/26/2015 | 18:00:02 | 59.38 | 54.08 | 259 | 1.72 | 0.86 | 14.2 |
| 4/26/2015 | 18:00:03 | 59.71 | 54.41 | 269 | 1.76 | 0.85 | 14.7 |
| 4/26/2015 | 18:00:04 | 60.04 | 54.74 | 267 | 1.73 | 0.85 | 14.6 |
| 4/26/2015 | 18:00:04 | 60.10 | 54.80 | 267 | 1.73 | 0.85 | 14.6 |

## H349 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:53:24

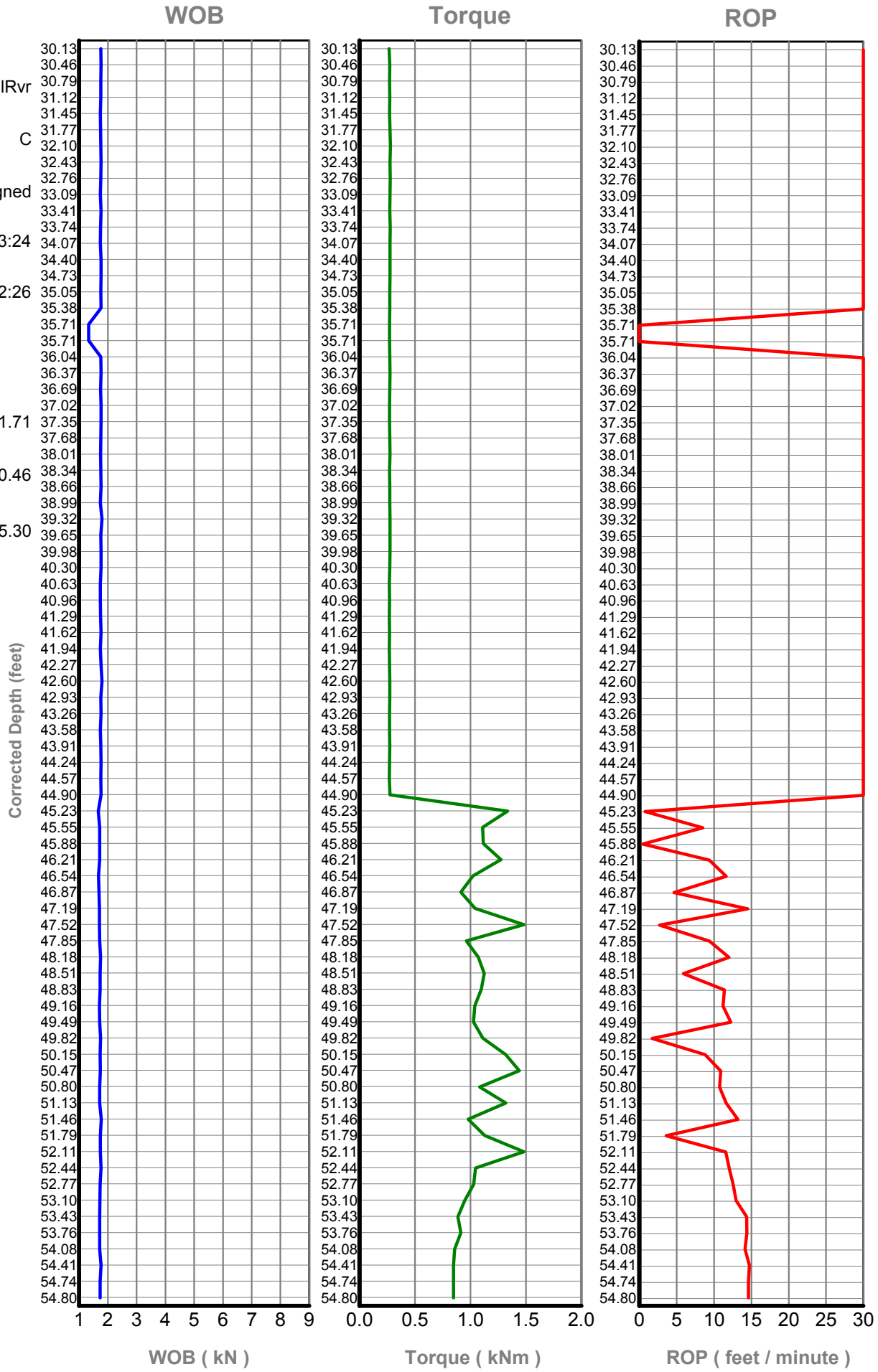
**End Date:**
4/26/2015 18:02:26

**Operator Note:**
'5.3 5.8 C 5.0 C Auto Complete'

**Northing:**
365,651.71

**Easting:**
250,020.46

**Tide (feet):**
5.30



## Hole: H35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 17:55:06 | 35.11 | 30.31 | 906 | 0.35 | 0.33 | 49.5 |
| 4/24/2015 17:55:07 | 35.43 | 30.63 | 906 | 0.35 | 0.33 | 49.5 |
| 4/24/2015 17:55:07 | 35.76 | 30.96 | 906 | 0.39 | 0.34 | 49.6 |
| 4/24/2015 17:55:08 | 36.09 | 31.29 | 916 | 0.37 | 0.32 | 50.1 |
| 4/24/2015 17:55:08 | 36.42 | 31.62 | 905 | 0.37 | 0.33 | 49.5 |
| 4/24/2015 17:55:09 | 36.75 | 31.95 | 905 | 0.37 | 0.33 | 49.5 |
| 4/24/2015 17:55:09 | 37.07 | 32.27 | 902 | 0.37 | 0.33 | 49.3 |
| 4/24/2015 17:55:09 | 37.40 | 32.60 | 893 | 0.36 | 0.33 | 48.9 |
| 4/24/2015 17:55:10 | 37.73 | 32.93 | 888 | 0.36 | 0.33 | 48.5 |
| 4/24/2015 17:55:10 | 38.06 | 33.26 | 888 | 0.36 | 0.33 | 48.5 |
| 4/24/2015 17:55:10 | 38.39 | 33.59 | 896 | 0.35 | 0.32 | 49.0 |
| 4/24/2015 17:55:11 | 38.71 | 33.91 | 902 | 0.35 | 0.33 | 49.3 |
| 4/24/2015 17:55:11 | 39.04 | 34.24 | 905 | 0.36 | 0.33 | 49.5 |
| 4/24/2015 17:55:12 | 39.37 | 34.57 | 905 | 0.36 | 0.33 | 49.5 |
| 4/24/2015 17:55:12 | 39.70 | 34.90 | 911 | 0.36 | 0.32 | 49.8 |
| 4/24/2015 17:55:12 | 40.03 | 35.23 | 919 | 0.35 | 0.32 | 50.3 |
| 4/24/2015 17:55:13 | 40.35 | 35.55 | 895 | 0.35 | 0.33 | 48.9 |
| 4/24/2015 17:55:13 | 40.68 | 35.88 | 895 | 0.35 | 0.33 | 48.9 |
| 4/24/2015 17:55:13 | 41.01 | 36.21 | 903 | 0.35 | 0.33 | 49.4 |
| 4/24/2015 17:55:14 | 41.34 | 36.54 | 905 | 0.35 | 0.32 | 49.5 |
| 4/24/2015 17:55:14 | 41.67 | 36.87 | 891 | 0.36 | 0.32 | 48.7 |
| 4/24/2015 17:55:15 | 41.99 | 37.19 | 891 | 0.36 | 0.32 | 48.7 |
| 4/24/2015 17:55:15 | 42.32 | 37.52 | 894 | 0.36 | 0.33 | 48.9 |
| 4/24/2015 17:55:15 | 42.65 | 37.85 | 894 | 0.36 | 0.33 | 48.9 |
| 4/24/2015 17:55:16 | 42.98 | 38.18 | 915 | 0.37 | 0.33 | 50.1 |
| 4/24/2015 17:55:17 | 43.31 | 38.51 | 913 | 0.35 | 0.33 | 49.9 |
| 4/24/2015 17:55:17 | 43.64 | 38.84 | 913 | 0.35 | 0.33 | 49.9 |
| 4/24/2015 17:55:17 | 43.96 | 39.16 | 894 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 17:55:18 | 44.29 | 39.49 | 909 | 0.35 | 0.33 | 49.7 |
| 4/24/2015 17:55:18 | 44.62 | 39.82 | 909 | 0.35 | 0.33 | 49.7 |
| 4/24/2015 17:55:19 | 44.95 | 40.15 | 909 | 0.35 | 0.33 | 49.7 |
| 4/24/2015 17:55:19 | 45.28 | 40.48 | 909 | 0.35 | 0.32 | 49.7 |
| 4/24/2015 17:55:19 | 45.60 | 40.80 | 915 | 0.36 | 0.33 | 50.0 |
| 4/24/2015 17:55:20 | 45.93 | 41.13 | 892 | 0.37 | 0.38 | 48.8 |
| 4/24/2015 17:55:35 | 46.26 | 41.46 | 36 | 4.45 | 0.37 | 2.0 |
| 4/24/2015 17:55:41 | 46.59 | 41.79 | 31 | 5.25 | 0.37 | 1.7 |
| 4/24/2015 17:55:41 | 46.92 | 42.12 | 31 | 3.74 | 0.38 | 1.7 |
| 4/24/2015 17:55:47 | 47.24 | 42.44 | 0 | 6.14 | 0.38 | 0.0 |
| 4/24/2015 17:55:55 | 47.57 | 42.77 | 0 | 3.75 | 0.36 | 0.0 |
| 4/24/2015 17:55:57 | 47.90 | 43.10 | 80 | 3.88 | 0.37 | 4.4 |
| 4/24/2015 17:55:58 | 48.23 | 43.43 | 226 | 3.98 | 0.38 | 12.3 |
| 4/24/2015 17:56:01 | 48.56 | 43.76 | 160 | 4.01 | 0.40 | 8.7 |
| 4/24/2015 17:56:07 | 48.88 | 44.08 | 61 | 4.07 | 0.40 | 3.4 |
| 4/24/2015 17:56:14 | 49.21 | 44.41 | 46 | 4.18 | 0.39 | 2.5 |
| 4/24/2015 17:56:19 | 49.54 | 44.74 | 65 | 3.79 | 0.40 | 3.6 |
| 4/24/2015 17:56:25 | 49.87 | 45.07 | 60 | 4.37 | 0.40 | 3.3 |
| 4/24/2015 17:56:26 | 49.96 | 45.16 | 62 | 4.13 | 0.40 | 3.4 |

## H35 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 17:53:10

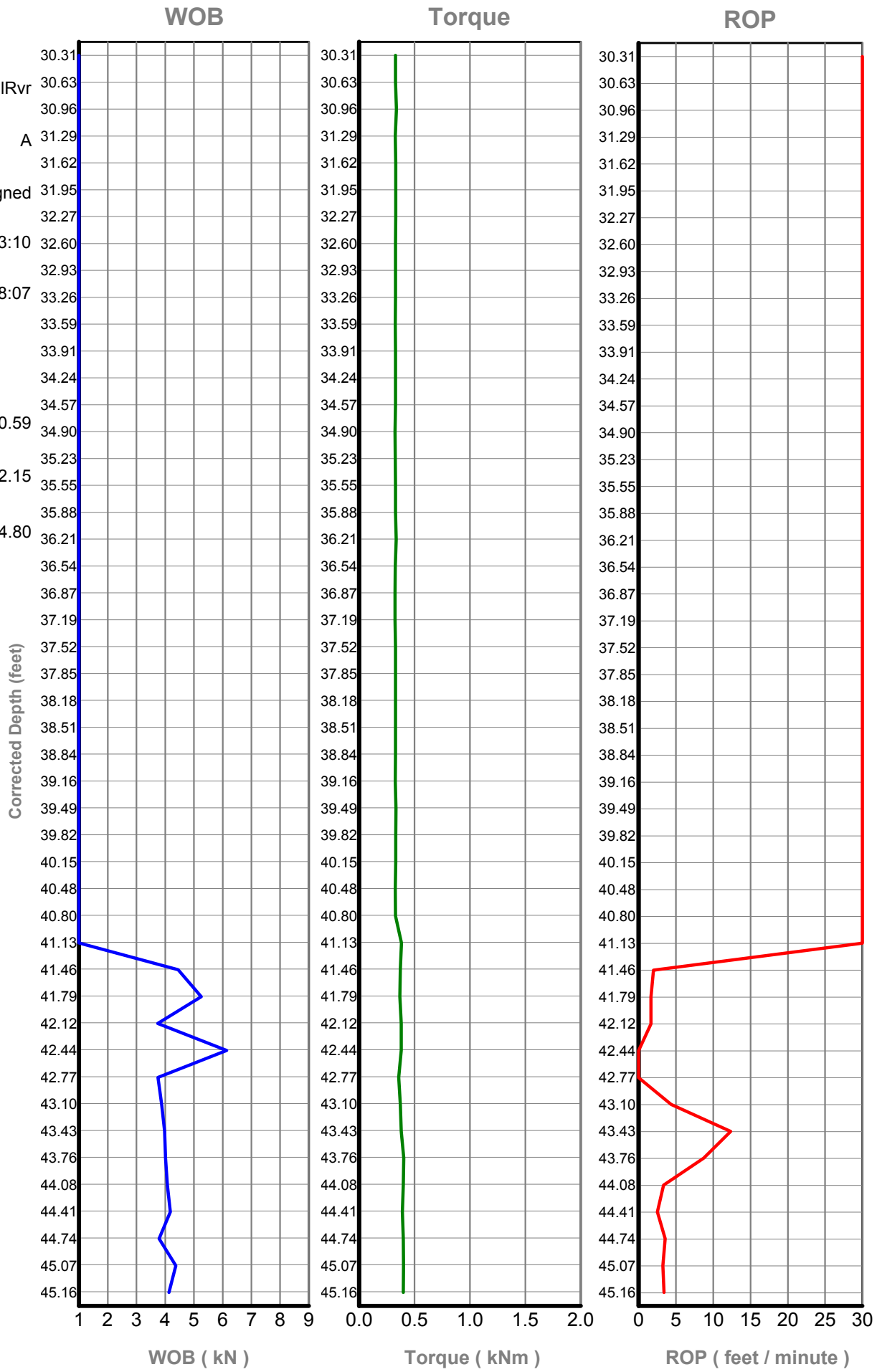
**End Date:**
4/24/2015 17:58:07

**Operator Note:**
'4.8 4.7 b Rock'

**Northing:**
367,200.59

**Easting:**
250,982.15

**Tide (feet):**
4.80



## Hole: H350 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:52:02 | 32.48 | 30.08 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:52:03 | 32.81 | 30.41 | 1,098 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:52:03 | 33.14 | 30.74 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:52:03 | 33.46 | 31.06 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:52:04 | 33.79 | 31.39 | 1,098 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 15:52:04 | 34.12 | 31.72 | 1,105 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:52:04 | 34.45 | 32.05 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:52:05 | 34.78 | 32.38 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:52:05 | 35.11 | 32.71 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:52:05 | 35.43 | 33.03 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 15:52:05 | 35.76 | 33.36 | 1,098 | 0.30 | 0.31 | 60.0 |
| 4/26/2015 15:52:06 | 36.09 | 33.69 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 15:52:06 | 36.42 | 34.02 | 1,089 | 0.30 | 0.31 | 59.5 |
| 4/26/2015 15:52:06 | 36.75 | 34.35 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:07 | 37.07 | 34.67 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:07 | 37.40 | 35.00 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:07 | 37.73 | 35.33 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 15:52:08 | 38.06 | 35.66 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 15:52:08 | 38.39 | 35.99 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:52:08 | 38.71 | 36.31 | 1,090 | 0.20 | 0.31 | 59.6 |
| 4/26/2015 15:52:09 | 39.04 | 36.64 | 1,090 | 0.20 | 0.31 | 59.6 |
| 4/26/2015 15:52:09 | 39.37 | 36.97 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/26/2015 15:52:09 | 39.70 | 37.30 | 1,067 | 0.30 | 0.30 | 58.3 |
| 4/26/2015 15:52:10 | 40.03 | 37.63 | 1,067 | 0.30 | 0.30 | 58.3 |
| 4/26/2015 15:52:10 | 40.35 | 37.95 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:52:11 | 40.68 | 38.28 | 1,078 | 0.29 | 0.30 | 59.0 |
| 4/26/2015 15:52:11 | 41.01 | 38.61 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/26/2015 15:52:11 | 41.34 | 38.94 | 1,078 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 15:52:12 | 41.67 | 39.27 | 1,078 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 15:52:12 | 41.99 | 39.59 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 15:52:12 | 42.32 | 39.92 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:52:13 | 42.65 | 40.25 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 15:52:13 | 42.98 | 40.58 | 1,083 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 15:52:13 | 43.31 | 40.91 | 1,083 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 15:52:13 | 43.64 | 41.24 | 1,080 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 15:52:14 | 43.96 | 41.56 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:14 | 44.29 | 41.89 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:14 | 44.62 | 42.22 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:15 | 44.95 | 42.55 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:15 | 45.28 | 42.88 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:52:15 | 45.60 | 43.20 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:52:16 | 45.93 | 43.53 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:52:16 | 46.26 | 43.86 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:52:16 | 46.59 | 44.19 | 1,081 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 15:52:17 | 46.92 | 44.52 | 1,081 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 15:52:17 | 47.24 | 44.84 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:52:17 | 47.57 | 45.17 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:52:18 | 47.90 | 45.50 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:52:18 | 48.23 | 45.83 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/26/2015 15:52:23 | 48.56 | 46.16 | 10 | 2.96 | 0.38 | 0.5 |
| 4/26/2015 15:52:26 | 48.88 | 46.48 | 129 | 3.73 | 0.38 | 7.0 |
| 4/26/2015 15:52:27 | 49.21 | 46.81 | 160 | 3.08 | 0.36 | 8.8 |
| 4/26/2015 15:52:27 | 49.54 | 47.14 | 238 | 2.71 | 0.35 | 13.0 |
| 4/26/2015 15:52:35 | 49.87 | 47.47 | 18 | 5.52 | 0.38 | 1.0 |
| 4/26/2015 15:52:36 | 50.20 | 47.80 | 135 | 3.28 | 0.38 | 7.4 |
| 4/26/2015 15:52:37 | 50.53 | 48.13 | 263 | 3.86 | 0.39 | 14.4 |
| 4/26/2015 15:52:45 | 50.85 | 48.45 | 52 | 4.92 | 0.40 | 2.8 |
| 4/26/2015 15:52:48 | 51.18 | 48.78 | 124 | 3.56 | 0.38 | 6.8 |
| 4/26/2015 15:52:51 | 51.51 | 49.11 | 89 | 3.05 | 0.40 | 4.9 |
| 4/26/2015 15:53:01 | 51.84 | 49.44 | 34 | 2.62 | 0.39 | 1.9 |
| 4/26/2015 15:53:10 | 52.17 | 49.77 | 44 | 3.03 | 0.40 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 15:53:19 | 52.49 | 50.09 | 40 | 3.62 | 0.39 | 2.2 |

## H350 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:50:27

**End Date:**
4/26/2015 15:54:33

**Operator Note:**
'2.4 2.2 b Auto Complete'

**Northing:**
365,715.28

**Easting:**
250,089.96

**Tide (feet):**
2.40



## Hole: H351 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:47:59 | 32.48 | 30.08 | 1,079 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:48:00 | 32.81 | 30.41 | 1,079 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 15:48:00 | 33.14 | 30.74 | 1,079 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 15:48:00 | 33.46 | 31.06 | 1,079 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 15:48:01 | 33.79 | 31.39 | 1,079 | 0.26 | 0.31 | 59.0 |
| 4/26/2015 15:48:01 | 34.12 | 31.72 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 15:48:02 | 34.45 | 32.05 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:48:02 | 34.78 | 32.38 | 1,088 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 15:48:02 | 35.11 | 32.71 | 1,083 | 0.31 | 0.31 | 59.2 |
| 4/26/2015 15:48:03 | 35.43 | 33.03 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:48:03 | 35.76 | 33.36 | 1,075 | 0.29 | 0.30 | 58.8 |
| 4/26/2015 15:48:03 | 36.09 | 33.69 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 15:48:04 | 36.42 | 34.02 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:48:04 | 36.75 | 34.35 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:48:04 | 37.07 | 34.67 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/26/2015 15:48:05 | 37.40 | 35.00 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/26/2015 15:48:05 | 37.73 | 35.33 | 1,071 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 15:48:05 | 38.06 | 35.66 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:48:06 | 38.39 | 35.99 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 15:48:06 | 38.71 | 36.31 | 1,077 | 0.29 | 0.30 | 58.9 |
| 4/26/2015 15:48:06 | 39.04 | 36.64 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 15:48:07 | 39.37 | 36.97 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 15:48:07 | 39.70 | 37.30 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 15:48:07 | 40.03 | 37.63 | 1,091 | 0.29 | 0.31 | 59.7 |
| 4/26/2015 15:48:08 | 40.35 | 37.95 | 1,091 | 0.29 | 0.31 | 59.7 |
| 4/26/2015 15:48:08 | 40.68 | 38.28 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:48:08 | 41.01 | 38.61 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:48:08 | 41.34 | 38.94 | 1,081 | 0.29 | 0.30 | 59.1 |
| 4/26/2015 15:48:09 | 41.67 | 39.27 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:48:09 | 41.99 | 39.59 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/26/2015 15:48:09 | 42.32 | 39.92 | 1,093 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 15:48:10 | 42.65 | 40.25 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:48:11 | 42.98 | 40.58 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/26/2015 15:48:10 | 43.31 | 40.91 | 1,049 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 15:48:11 | 43.64 | 41.24 | 1,049 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 15:48:12 | 43.96 | 41.56 | 1,049 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 15:48:12 | 44.29 | 41.89 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 15:48:12 | 44.62 | 42.22 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 15:48:12 | 44.95 | 42.55 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 15:48:13 | 45.28 | 42.88 | 1,056 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 15:48:13 | 45.60 | 43.20 | 1,056 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 15:48:13 | 45.93 | 43.53 | 1,056 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 15:48:14 | 46.26 | 43.86 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 15:48:14 | 46.59 | 44.19 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 15:48:14 | 46.92 | 44.52 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 15:48:15 | 47.24 | 44.84 | 1,070 | 0.27 | 0.34 | 58.5 |
| 4/26/2015 15:48:15 | 47.57 | 45.17 | 1,070 | 0.27 | 0.34 | 58.5 |
| 4/26/2015 15:48:22 | 47.90 | 45.50 | 0 | 2.72 | 0.36 | 0.0 |
| 4/26/2015 15:48:23 | 48.23 | 45.83 | 98 | 3.28 | 0.38 | 5.4 |
| 4/26/2015 15:48:29 | 48.56 | 46.16 | 0 | 4.02 | 0.38 | 0.0 |
| 4/26/2015 15:48:32 | 48.88 | 46.48 | 91 | 3.48 | 0.41 | 5.0 |
| 4/26/2015 15:48:40 | 49.21 | 46.81 | 32 | 3.23 | 0.39 | 1.7 |
| 4/26/2015 15:48:45 | 49.54 | 47.14 | 87 | 3.72 | 0.39 | 4.7 |
| 4/26/2015 15:48:48 | 49.87 | 47.47 | 103 | 3.14 | 0.39 | 5.6 |
| 4/26/2015 15:48:52 | 50.20 | 47.80 | 93 | 3.37 | 0.39 | 5.1 |
| 4/26/2015 15:48:55 | 50.53 | 48.13 | 104 | 3.96 | 0.38 | 5.7 |
| 4/26/2015 15:49:02 | 50.85 | 48.45 | 43 | 2.74 | 0.39 | 2.3 |
| 4/26/2015 15:49:10 | 51.18 | 48.78 | 40 | 2.97 | 0.40 | 2.2 |
| 4/26/2015 15:49:19 | 51.51 | 49.11 | 38 | 2.86 | 0.40 | 2.1 |
| 4/26/2015 15:49:21 | 51.58 | 49.18 | 46 | 2.99 | 0.40 | 2.5 |

## H351 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:46:36

**End Date:**
4/26/2015 15:50:22

**Operator Note:**
'2.4 1.8 b Auto Complete'

**Northing:**
365,751.20

**Easting:**
250,136.77

**Tide (feet):**
2.40



## Hole: H352 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 15:50:00 | 32.48 | 30.08 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 15:50:01 | 32.81 | 30.41 | 629 | 1.76 | 0.29 | 34.4 |
| 4/26/2015 15:50:01 | 33.14 | 30.74 | 629 | 1.72 | 0.29 | 34.4 |
| 4/26/2015 15:50:02 | 33.46 | 31.06 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 15:50:02 | 33.79 | 31.39 | 633 | 1.76 | 0.28 | 34.6 |
| 4/26/2015 15:50:03 | 34.12 | 31.72 | 630 | 1.76 | 0.29 | 34.5 |
| 4/26/2015 15:50:03 | 34.45 | 32.05 | 633 | 1.75 | 0.29 | 34.6 |
| 4/26/2015 15:50:04 | 34.78 | 32.38 | 634 | 1.76 | 0.29 | 34.7 |
| 4/26/2015 15:50:04 | 35.11 | 32.71 | 633 | 1.76 | 0.29 | 34.6 |
| 4/26/2015 15:50:05 | 35.43 | 33.03 | 626 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 15:50:06 | 35.76 | 33.36 | 627 | 1.75 | 0.29 | 34.3 |
| 4/26/2015 15:50:07 | 36.09 | 33.69 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:07 | 36.42 | 34.02 | 621 | 1.77 | 0.29 | 34.0 |
| 4/26/2015 15:50:08 | 36.75 | 34.35 | 628 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:08 | 37.07 | 34.67 | 628 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:09 | 37.40 | 35.00 | 628 | 1.75 | 0.29 | 34.3 |
| 4/26/2015 15:50:09 | 37.73 | 35.33 | 616 | 1.77 | 0.29 | 33.7 |
| 4/26/2015 15:50:10 | 38.06 | 35.66 | 616 | 1.77 | 0.28 | 33.7 |
| 4/26/2015 15:50:10 | 38.39 | 35.99 | 629 | 1.78 | 0.29 | 34.4 |
| 4/26/2015 15:50:11 | 38.71 | 36.31 | 626 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:12 | 39.04 | 36.64 | 626 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:12 | 39.37 | 36.97 | 630 | 1.79 | 0.28 | 34.5 |
| 4/26/2015 15:50:13 | 39.70 | 37.30 | 625 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 15:50:13 | 40.03 | 37.63 | 624 | 1.77 | 0.29 | 34.1 |
| 4/26/2015 15:50:14 | 40.35 | 37.95 | 628 | 1.77 | 0.28 | 34.3 |
| 4/26/2015 15:50:14 | 40.68 | 38.28 | 621 | 1.77 | 0.28 | 33.9 |
| 4/26/2015 15:50:15 | 41.01 | 38.61 | 631 | 1.79 | 0.28 | 34.5 |
| 4/26/2015 15:50:15 | 41.34 | 38.94 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 15:50:16 | 41.67 | 39.27 | 631 | 1.77 | 0.28 | 34.5 |
| 4/26/2015 15:50:16 | 41.99 | 39.59 | 627 | 1.75 | 0.29 | 34.3 |
| 4/26/2015 15:50:18 | 42.32 | 39.92 | 622 | 1.78 | 0.29 | 34.0 |
| 4/26/2015 15:50:18 | 42.65 | 40.25 | 624 | 1.76 | 0.28 | 34.1 |
| 4/26/2015 15:50:19 | 42.98 | 40.58 | 621 | 1.76 | 0.28 | 34.0 |
| 4/26/2015 15:50:19 | 43.31 | 40.91 | 619 | 1.76 | 0.28 | 33.8 |
| 4/26/2015 15:50:20 | 43.64 | 41.24 | 618 | 1.76 | 0.28 | 33.8 |
| 4/26/2015 15:50:20 | 43.96 | 41.56 | 624 | 1.77 | 0.28 | 34.1 |
| 4/26/2015 15:50:21 | 44.29 | 41.89 | 622 | 1.76 | 0.28 | 34.0 |
| 4/26/2015 15:50:21 | 44.62 | 42.22 | 622 | 1.75 | 0.28 | 34.0 |
| 4/26/2015 15:50:22 | 44.95 | 42.55 | 622 | 1.76 | 0.28 | 34.0 |
| 4/26/2015 15:50:22 | 45.28 | 42.88 | 624 | 1.76 | 0.28 | 34.1 |
| 4/26/2015 15:50:24 | 45.60 | 43.20 | 616 | 1.76 | 0.28 | 33.7 |
| 4/26/2015 15:50:25 | 45.93 | 43.53 | 616 | 1.76 | 0.28 | 33.7 |
| 4/26/2015 15:50:24 | 46.26 | 43.86 | 614 | 1.76 | 0.28 | 33.6 |
| 4/26/2015 15:50:43 | 46.59 | 44.19 | 48 | 1.76 | 1.19 | 2.6 |
| 4/26/2015 15:50:53 | 46.92 | 44.52 | 35 | 1.79 | 1.05 | 1.9 |
| 4/26/2015 15:51:03 | 47.24 | 44.84 | 35 | 1.78 | 1.03 | 1.9 |
| 4/26/2015 15:51:13 | 47.57 | 45.17 | 35 | 1.79 | 1.08 | 1.9 |
| 4/26/2015 15:51:21 | 47.84 | 45.44 | 41 | 1.76 | 1.23 | 2.2 |

## H352 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 15:48:07

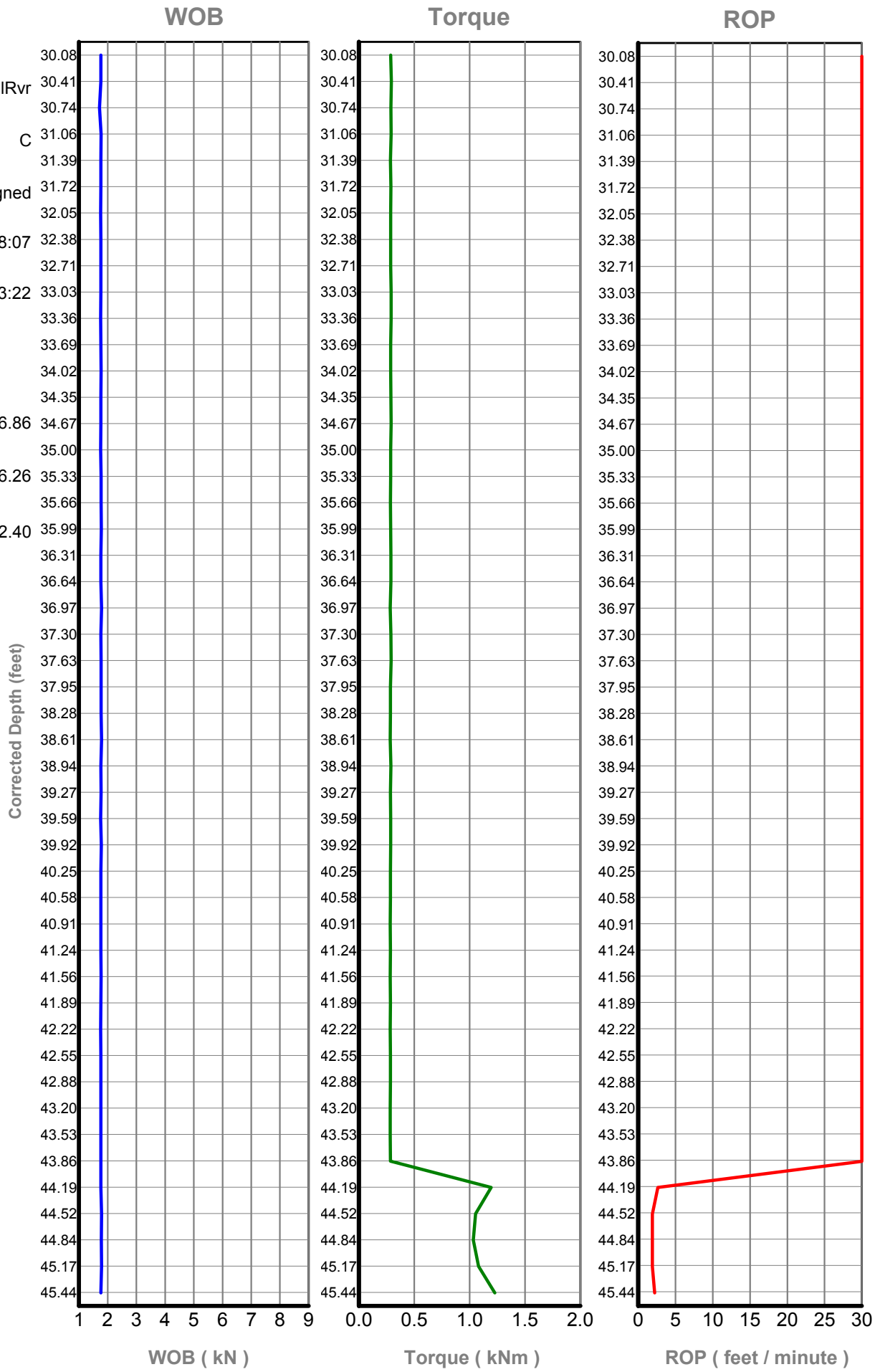
**End Date:**
4/26/2015 15:53:22

**Operator Note:**
'2.4 1.8 C Auto Complete'

**Northing:**
365,796.86

**Easting:**
250,196.26

**Tide (feet):**
2.40



## Hole: H353 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:33:37 | 34.12 | 30.32 | 995 | 0.30 | 0.32 | 54.4 |
| 4/26/2015 10:33:37 | 34.45 | 30.65 | 995 | 0.30 | 0.32 | 54.4 |
| 4/26/2015 10:33:38 | 34.78 | 30.98 | 1,008 | 0.30 | 0.32 | 55.1 |
| 4/26/2015 10:33:38 | 35.11 | 31.31 | 1,008 | 0.30 | 0.32 | 55.1 |
| 4/26/2015 10:33:38 | 35.43 | 31.63 | 1,005 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:33:39 | 35.76 | 31.96 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/26/2015 10:33:39 | 36.09 | 32.29 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/26/2015 10:33:39 | 36.42 | 32.62 | 999 | 0.30 | 0.32 | 54.7 |
| 4/26/2015 10:33:40 | 36.75 | 32.95 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 10:33:40 | 37.07 | 33.27 | 1,002 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 10:33:40 | 37.40 | 33.60 | 1,002 | 0.30 | 0.32 | 54.8 |
| 4/26/2015 10:33:41 | 37.73 | 33.93 | 995 | 0.30 | 0.32 | 54.4 |
| 4/26/2015 10:33:41 | 38.06 | 34.26 | 995 | 0.30 | 0.32 | 54.4 |
| 4/26/2015 10:33:41 | 38.39 | 34.59 | 995 | 0.31 | 0.32 | 54.4 |
| 4/26/2015 10:33:42 | 38.71 | 34.91 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:33:42 | 39.04 | 35.24 | 1,011 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:33:42 | 39.37 | 35.57 | 970 | 0.31 | 0.32 | 53.0 |
| 4/26/2015 10:33:43 | 39.70 | 35.90 | 970 | 0.31 | 0.31 | 53.0 |
| 4/26/2015 10:33:43 | 40.03 | 36.23 | 970 | 0.31 | 0.31 | 53.0 |
| 4/26/2015 10:33:43 | 40.35 | 36.55 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:33:44 | 40.68 | 36.88 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:33:44 | 41.01 | 37.21 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:33:44 | 41.34 | 37.54 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 10:33:45 | 41.67 | 37.87 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 10:33:45 | 41.99 | 38.19 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 10:33:45 | 42.32 | 38.52 | 1,003 | 0.31 | 0.32 | 54.8 |
| 4/26/2015 10:33:46 | 42.65 | 38.85 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:33:46 | 42.98 | 39.18 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:33:46 | 43.31 | 39.51 | 1,037 | 0.31 | 0.32 | 56.7 |
| 4/26/2015 10:33:47 | 43.64 | 39.84 | 1,028 | 0.31 | 0.33 | 56.2 |
| 4/26/2015 10:33:47 | 43.96 | 40.16 | 1,028 | 0.31 | 0.33 | 56.2 |
| 4/26/2015 10:33:47 | 44.29 | 40.49 | 1,005 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:33:48 | 44.62 | 40.82 | 1,033 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 10:33:49 | 44.95 | 41.15 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:33:49 | 45.28 | 41.48 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:33:49 | 45.60 | 41.80 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 10:33:50 | 45.93 | 42.13 | 1,011 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 10:33:50 | 46.26 | 42.46 | 1,011 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 10:33:50 | 46.59 | 42.79 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 10:33:51 | 46.92 | 43.12 | 978 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 10:33:51 | 47.24 | 43.44 | 978 | 0.31 | 0.32 | 53.5 |
| 4/26/2015 10:33:51 | 47.57 | 43.77 | 978 | 0.32 | 0.32 | 53.5 |
| 4/26/2015 10:33:52 | 47.90 | 44.10 | 995 | 0.29 | 0.32 | 54.4 |
| 4/26/2015 10:33:52 | 48.23 | 44.43 | 995 | 0.29 | 0.32 | 54.4 |
| 4/26/2015 10:33:52 | 48.56 | 44.76 | 995 | 0.31 | 0.32 | 54.4 |
| 4/26/2015 10:33:53 | 48.88 | 45.08 | 1,005 | 0.31 | 0.34 | 54.9 |
| 4/26/2015 10:33:53 | 49.21 | 45.41 | 1,005 | 0.31 | 0.34 | 54.9 |
| 4/26/2015 10:34:02 | 49.54 | 45.74 | 0 | 2.63 | 0.34 | 0.0 |
| 4/26/2015 10:34:03 | 49.87 | 46.07 | 160 | 3.83 | 0.39 | 8.8 |
| 4/26/2015 10:34:12 | 50.20 | 46.40 | 17 | 3.53 | 0.40 | 0.9 |
| 4/26/2015 10:34:18 | 50.53 | 46.73 | 54 | 4.19 | 0.40 | 3.0 |
| 4/26/2015 10:34:25 | 50.85 | 47.05 | 56 | 4.05 | 0.40 | 3.1 |
| 4/26/2015 10:34:31 | 51.18 | 47.38 | 55 | 3.52 | 0.40 | 3.0 |
| 4/26/2015 10:34:36 | 51.43 | 47.63 | 43 | 3.35 | 0.40 | 2.4 |

## H353 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 10:31:30

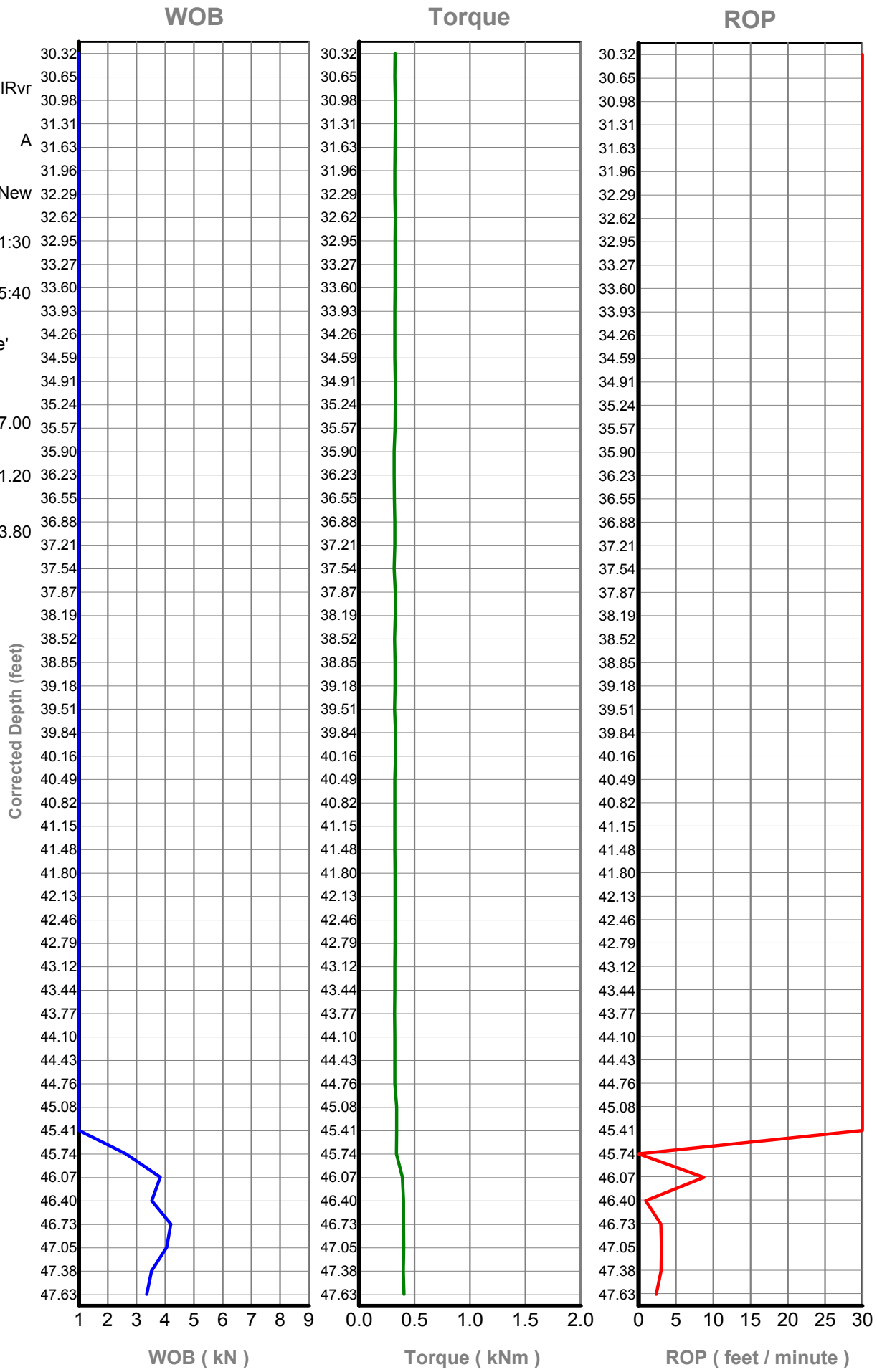
**End Date:**
4/26/2015 10:35:40

**Operator Note:**
'3.8 4.0 b Auto Complete'

**Northing:**
365,837.00

**Easting:**
250,261.20

**Tide (feet):**
3.80



## Hole: H354 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:37:57 | 33.79 | 30.09 | 1,035 | 0.32 | 0.32 | 56.6 |
| 4/26/2015 10:37:57 | 34.12 | 30.42 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/26/2015 10:37:58 | 34.45 | 30.75 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 10:37:58 | 34.78 | 31.08 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 10:37:58 | 35.11 | 31.41 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 10:37:59 | 35.43 | 31.73 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 10:37:59 | 35.76 | 32.06 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 10:37:59 | 36.09 | 32.39 | 1,024 | 0.41 | 0.32 | 56.0 |
| 4/26/2015 10:38:00 | 36.42 | 32.72 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 10:38:00 | 36.75 | 33.05 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 10:38:00 | 37.07 | 33.37 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:38:01 | 37.40 | 33.70 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 10:38:01 | 37.73 | 34.03 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 10:38:01 | 38.06 | 34.36 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:38:02 | 38.39 | 34.69 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 10:38:02 | 38.71 | 35.01 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 10:38:02 | 39.04 | 35.34 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 10:38:03 | 39.37 | 35.67 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 10:38:03 | 39.70 | 36.00 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 10:38:03 | 40.03 | 36.33 | 1,023 | 0.27 | 0.31 | 56.0 |
| 4/26/2015 10:38:04 | 40.35 | 36.65 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 10:38:04 | 40.68 | 36.98 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 10:38:04 | 41.01 | 37.31 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:38:05 | 41.34 | 37.64 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 10:38:05 | 41.67 | 37.97 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 10:38:05 | 41.99 | 38.29 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 10:38:06 | 42.32 | 38.62 | 1,023 | 0.31 | 0.33 | 56.0 |
| 4/26/2015 10:38:06 | 42.65 | 38.95 | 1,023 | 0.31 | 0.33 | 56.0 |
| 4/26/2015 10:38:06 | 42.98 | 39.28 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:38:07 | 43.31 | 39.61 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 10:38:07 | 43.64 | 39.94 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 10:38:07 | 43.96 | 40.26 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 10:38:08 | 44.29 | 40.59 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/26/2015 10:38:09 | 44.62 | 40.92 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 10:38:09 | 44.95 | 41.25 | 1,015 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 10:38:09 | 45.28 | 41.58 | 1,018 | 0.33 | 0.32 | 55.6 |
| 4/26/2015 10:38:10 | 45.60 | 41.90 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:38:10 | 45.93 | 42.23 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 10:38:10 | 46.26 | 42.56 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/26/2015 10:38:11 | 46.59 | 42.89 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:38:11 | 46.92 | 43.22 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:38:11 | 47.24 | 43.54 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/26/2015 10:38:12 | 47.57 | 43.87 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:38:12 | 47.90 | 44.20 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:38:12 | 48.23 | 44.53 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:38:13 | 48.56 | 44.86 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:38:13 | 48.88 | 45.18 | 1,006 | 0.31 | 0.32 | 55.0 |
| 4/26/2015 10:38:13 | 49.21 | 45.51 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/26/2015 10:38:14 | 49.54 | 45.84 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:38:14 | 49.87 | 46.17 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/26/2015 10:38:20 | 50.20 | 46.50 | 0 | 3.12 | 0.37 | 0.0 |
| 4/26/2015 10:38:21 | 50.53 | 46.83 | 114 | 6.32 | 0.38 | 6.2 |
| 4/26/2015 10:38:24 | 50.85 | 47.15 | 121 | 5.38 | 0.39 | 6.6 |
| 4/26/2015 10:38:25 | 51.18 | 47.48 | 211 | 4.45 | 0.38 | 11.5 |
| 4/26/2015 10:38:29 | 51.51 | 47.81 | 3 | 3.80 | 0.38 | 0.2 |
| 4/26/2015 10:38:31 | 51.84 | 48.14 | 196 | 4.50 | 0.38 | 10.7 |
| 4/26/2015 10:38:37 | 52.17 | 48.47 | 48 | 5.52 | 0.38 | 2.7 |
| 4/26/2015 10:38:43 | 52.49 | 48.79 | 53 | 3.77 | 0.38 | 2.9 |
| 4/26/2015 10:38:44 | 52.82 | 49.12 | 185 | 3.96 | 0.39 | 10.1 |
| 4/26/2015 10:39:04 | 53.15 | 49.45 | 35 | 3.20 | 0.39 | 1.9 |
| 4/26/2015 10:40:14 | 53.48 | 49.78 | 36 | 3.28 | 0.39 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 10:40:25 | 53.81 | 50.11 | 37 | 3.18 | 0.39 | 2.0 |
| 4/26/2015 | 10:40:32 | 54.13 | 50.43 | 46 | 3.10 | 0.39 | 2.5 |
| 4/26/2015 | 10:40:33 | 54.20 | 50.50 | 49 | 3.33 | 0.40 | 2.7 |

## H354 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 10:35:52

**End Date:**
4/26/2015 10:41:48

**Operator Note:**
'3.7 3.9 b Auto Complete'

**Northing:**
365,875.96

**Easting:**
250,306.13

**Tide (feet):**
3.70



## Hole: H355 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:35:58 | 34.12 | 30.32 | 589 | 1.77 | 0.30 | 32.2 |
| 4/26/2015 10:35:58 | 34.45 | 30.65 | 590 | 1.79 | 0.31 | 32.3 |
| 4/26/2015 10:35:59 | 34.78 | 30.98 | 593 | 1.76 | 0.31 | 32.4 |
| 4/26/2015 10:36:00 | 35.11 | 31.31 | 590 | 1.78 | 0.31 | 32.2 |
| 4/26/2015 10:36:00 | 35.43 | 31.63 | 593 | 1.79 | 0.31 | 32.4 |
| 4/26/2015 10:36:01 | 35.76 | 31.96 | 587 | 1.79 | 0.31 | 32.1 |
| 4/26/2015 10:36:01 | 36.09 | 32.29 | 586 | 1.79 | 0.30 | 32.1 |
| 4/26/2015 10:36:02 | 36.42 | 32.62 | 590 | 1.79 | 0.30 | 32.2 |
| 4/26/2015 10:36:03 | 36.75 | 32.95 | 590 | 1.78 | 0.31 | 32.2 |
| 4/26/2015 10:36:03 | 37.07 | 33.27 | 587 | 1.79 | 0.30 | 32.1 |
| 4/26/2015 10:36:04 | 37.40 | 33.60 | 593 | 1.78 | 0.30 | 32.4 |
| 4/26/2015 10:36:05 | 37.73 | 33.93 | 593 | 1.78 | 0.30 | 32.4 |
| 4/26/2015 10:36:05 | 38.06 | 34.26 | 590 | 1.78 | 0.30 | 32.2 |
| 4/26/2015 10:36:06 | 38.39 | 34.59 | 586 | 1.76 | 0.30 | 32.1 |
| 4/26/2015 10:36:06 | 38.71 | 34.91 | 587 | 1.78 | 0.30 | 32.1 |
| 4/26/2015 10:36:07 | 39.04 | 35.24 | 587 | 1.78 | 0.31 | 32.1 |
| 4/26/2015 10:36:08 | 39.37 | 35.57 | 590 | 1.79 | 0.30 | 32.2 |
| 4/26/2015 10:36:08 | 39.70 | 35.90 | 593 | 1.79 | 0.30 | 32.4 |
| 4/26/2015 10:36:09 | 40.03 | 36.23 | 590 | 1.79 | 0.30 | 32.2 |
| 4/26/2015 10:36:09 | 40.35 | 36.55 | 590 | 1.79 | 0.30 | 32.2 |
| 4/26/2015 10:36:10 | 40.68 | 36.88 | 586 | 1.79 | 0.30 | 32.0 |
| 4/26/2015 10:36:10 | 41.01 | 37.21 | 590 | 1.79 | 0.30 | 32.2 |
| 4/26/2015 10:36:11 | 41.34 | 37.54 | 580 | 1.79 | 0.30 | 31.7 |
| 4/26/2015 10:36:12 | 41.67 | 37.87 | 584 | 1.78 | 0.30 | 31.9 |
| 4/26/2015 10:36:12 | 41.99 | 38.19 | 587 | 1.79 | 0.30 | 32.1 |
| 4/26/2015 10:36:13 | 42.32 | 38.52 | 587 | 1.79 | 0.30 | 32.1 |
| 4/26/2015 10:36:14 | 42.65 | 38.85 | 581 | 1.78 | 0.30 | 31.8 |
| 4/26/2015 10:36:14 | 42.98 | 39.18 | 584 | 1.79 | 0.30 | 31.9 |
| 4/26/2015 10:36:15 | 43.31 | 39.51 | 584 | 1.79 | 0.30 | 32.0 |
| 4/26/2015 10:36:16 | 43.64 | 39.84 | 584 | 1.79 | 0.30 | 32.0 |
| 4/26/2015 10:36:16 | 43.96 | 40.16 | 584 | 1.79 | 0.30 | 32.0 |
| 4/26/2015 10:36:17 | 44.29 | 40.49 | 594 | 1.77 | 0.30 | 32.5 |
| 4/26/2015 10:36:17 | 44.62 | 40.82 | 584 | 1.77 | 0.30 | 31.9 |
| 4/26/2015 10:36:18 | 44.95 | 41.15 | 584 | 1.80 | 0.30 | 31.9 |
| 4/26/2015 10:36:19 | 45.28 | 41.48 | 587 | 1.80 | 0.30 | 32.1 |
| 4/26/2015 10:36:19 | 45.60 | 41.80 | 584 | 1.79 | 0.30 | 31.9 |
| 4/26/2015 10:36:20 | 45.93 | 42.13 | 584 | 1.80 | 0.30 | 31.9 |
| 4/26/2015 10:36:20 | 46.26 | 42.46 | 583 | 1.78 | 0.30 | 31.9 |
| 4/26/2015 10:36:21 | 46.59 | 42.79 | 587 | 1.77 | 0.30 | 32.1 |
| 4/26/2015 10:36:22 | 46.92 | 43.12 | 584 | 1.78 | 0.30 | 31.9 |
| 4/26/2015 10:36:22 | 47.24 | 43.44 | 587 | 1.77 | 0.30 | 32.1 |
| 4/26/2015 10:36:23 | 47.57 | 43.77 | 587 | 1.77 | 0.30 | 32.1 |
| 4/26/2015 10:36:24 | 47.90 | 44.10 | 584 | 1.78 | 0.30 | 31.9 |
| 4/26/2015 10:36:24 | 48.23 | 44.43 | 584 | 1.77 | 0.30 | 31.9 |
| 4/26/2015 10:36:25 | 48.56 | 44.76 | 580 | 1.79 | 0.22 | 31.7 |
| 4/26/2015 10:36:26 | 48.88 | 45.08 | 581 | 1.78 | 0.30 | 31.8 |
| 4/26/2015 10:36:26 | 49.21 | 45.41 | 581 | 1.76 | 0.30 | 31.8 |
| 4/26/2015 10:36:27 | 49.54 | 45.74 | 581 | 1.77 | 0.30 | 31.8 |
| 4/26/2015 10:36:27 | 49.87 | 46.07 | 584 | 1.77 | 0.30 | 31.9 |
| 4/26/2015 10:36:28 | 50.20 | 46.40 | 568 | 1.79 | 0.30 | 31.1 |
| 4/26/2015 10:36:29 | 50.53 | 46.73 | 575 | 1.80 | 0.30 | 31.5 |
| 4/26/2015 10:36:56 | 50.85 | 47.05 | 0 | 1.72 | 1.15 | 0.0 |
| 4/26/2015 10:36:57 | 51.18 | 47.38 | 94 | 1.73 | 1.30 | 5.1 |
| 4/26/2015 10:36:59 | 51.51 | 47.71 | 193 | 1.73 | 1.02 | 10.6 |
| 4/26/2015 10:37:50 | 51.84 | 48.04 | 0 | 1.75 | 1.14 | 0.0 |
| 4/26/2015 10:37:52 | 52.17 | 48.37 | 69 | 1.74 | 1.18 | 3.8 |
| 4/26/2015 10:37:54 | 52.49 | 48.69 | 198 | 1.74 | 1.17 | 10.8 |
| 4/26/2015 10:38:19 | 52.82 | 49.02 | 58 | 1.73 | 1.15 | 3.2 |
| 4/26/2015 10:38:20 | 53.15 | 49.35 | 192 | 1.78 | 1.01 | 10.5 |
| 4/26/2015 10:38:57 | 53.48 | 49.68 | 29 | 1.79 | 1.06 | 1.6 |
| 4/26/2015 10:39:08 | 53.81 | 50.01 | 35 | 1.79 | 1.13 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 10:39:19 | 54.13 | 50.33 | 32 | 1.79 | 0.99 | 1.7 |
| 4/26/2015 | 10:39:31 | 54.46 | 50.66 | 29 | 1.79 | 1.13 | 1.6 |
| 4/26/2015 | 10:39:43 | 54.79 | 50.99 | 29 | 1.79 | 1.14 | 1.6 |
| 4/26/2015 | 10:39:50 | 54.99 | 51.19 | 32 | 1.79 | 1.06 | 1.7 |

## H355 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 10:33:58

**End Date:**
4/26/2015 10:43:43

**Operator Note:**
'3.8 4.0 C Auto Complete'

**Northing:**
365,924.60

**Easting:**
250,363.22

**Tide (feet):**
3.80



## Hole: H356 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 4:27:27 | 34.12 | 30.02 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:27 | 34.45 | 30.35 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:27 | 34.78 | 30.68 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:28 | 35.11 | 31.01 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:28 | 35.43 | 31.33 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:28 | 35.76 | 31.66 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:29 | 36.09 | 31.99 | 1,009 | 0.18 | 0.32 | 55.2 |
| 4/26/2015 4:27:30 | 36.42 | 32.32 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:30 | 36.75 | 32.65 | 1,006 | 0.18 | 0.32 | 55.0 |
| 4/26/2015 4:27:30 | 37.07 | 32.97 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:31 | 37.40 | 33.30 | 994 | 0.18 | 0.32 | 54.4 |
| 4/26/2015 4:27:31 | 37.73 | 33.63 | 994 | 0.18 | 0.32 | 54.4 |
| 4/26/2015 4:27:31 | 38.06 | 33.96 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:32 | 38.39 | 34.29 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:32 | 38.71 | 34.61 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:32 | 39.04 | 34.94 | 994 | 0.18 | 0.32 | 54.4 |
| 4/26/2015 4:27:33 | 39.37 | 35.27 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:33 | 39.70 | 35.60 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:33 | 40.03 | 35.93 | 1,003 | 0.18 | 0.31 | 54.8 |
| 4/26/2015 4:27:34 | 40.35 | 36.25 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:34 | 40.68 | 36.58 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:34 | 41.01 | 36.91 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:35 | 41.34 | 37.24 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:35 | 41.67 | 37.57 | 1,003 | 0.18 | 0.32 | 54.8 |
| 4/26/2015 4:27:36 | 41.99 | 37.89 | 1,003 | 0.18 | 0.32 | 54.8 |
| 4/26/2015 4:27:36 | 42.32 | 38.22 | 997 | 0.18 | 0.31 | 54.5 |
| 4/26/2015 4:27:36 | 42.65 | 38.55 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:37 | 42.98 | 38.88 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:37 | 43.31 | 39.21 | 997 | 0.18 | 0.31 | 54.5 |
| 4/26/2015 4:27:37 | 43.64 | 39.54 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:38 | 43.96 | 39.86 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:38 | 44.29 | 40.19 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:38 | 44.62 | 40.52 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:39 | 44.95 | 40.85 | 997 | 0.18 | 0.32 | 54.5 |
| 4/26/2015 4:27:39 | 45.28 | 41.18 | 991 | 0.18 | 0.32 | 54.2 |
| 4/26/2015 4:27:39 | 45.60 | 41.50 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:40 | 45.93 | 41.83 | 1,000 | 0.18 | 0.32 | 54.7 |
| 4/26/2015 4:27:40 | 46.26 | 42.16 | 994 | 0.18 | 0.32 | 54.4 |
| 4/26/2015 4:27:41 | 46.59 | 42.49 | 992 | 0.18 | 0.32 | 54.2 |
| 4/26/2015 4:27:41 | 46.92 | 42.82 | 986 | 0.16 | 0.40 | 53.9 |
| 4/26/2015 4:27:53 | 47.24 | 43.14 | 1 | 0.18 | 0.34 | 0.1 |
| 4/26/2015 4:27:53 | 47.57 | 43.47 | 107 | 0.18 | 0.32 | 5.9 |
| 4/26/2015 4:27:54 | 47.90 | 43.80 | 296 | 0.18 | 0.32 | 16.2 |
| 4/26/2015 4:27:54 | 48.23 | 44.13 | 296 | 0.18 | 0.32 | 16.2 |
| 4/26/2015 4:27:54 | 48.56 | 44.46 | 492 | 0.19 | 0.32 | 26.9 |
| 4/26/2015 4:27:55 | 48.88 | 44.78 | 683 | 0.18 | 0.32 | 37.3 |
| 4/26/2015 4:27:55 | 49.21 | 45.11 | 683 | 0.18 | 0.32 | 37.3 |
| 4/26/2015 4:27:55 | 49.54 | 45.44 | 877 | 0.18 | 0.32 | 48.0 |
| 4/26/2015 4:27:56 | 49.87 | 45.77 | 957 | 0.18 | 0.32 | 52.4 |
| 4/26/2015 4:27:56 | 50.20 | 46.10 | 957 | 0.18 | 0.32 | 52.4 |
| 4/26/2015 4:27:57 | 50.53 | 46.43 | 901 | 0.16 | 0.40 | 49.3 |
| 4/26/2015 4:28:24 | 50.85 | 46.75 | 32 | 6.81 | 0.40 | 1.7 |
| 4/26/2015 4:28:26 | 51.18 | 47.08 | 130 | 3.72 | 0.38 | 7.1 |
| 4/26/2015 4:28:27 | 51.51 | 47.41 | 214 | 4.24 | 0.38 | 11.7 |
| 4/26/2015 4:28:28 | 51.84 | 47.74 | 319 | 4.40 | 0.39 | 17.4 |
| 4/26/2015 4:28:29 | 52.17 | 48.07 | 317 | 4.43 | 0.38 | 17.3 |
| 4/26/2015 4:28:31 | 52.49 | 48.39 | 182 | 5.19 | 0.39 | 10.0 |
| 4/26/2015 4:28:33 | 52.82 | 48.72 | 186 | 3.54 | 0.39 | 10.2 |
| 4/26/2015 4:28:35 | 53.15 | 49.05 | 233 | 5.06 | 0.39 | 12.8 |
| 4/26/2015 4:28:36 | 53.48 | 49.38 | 231 | 4.29 | 0.42 | 12.7 |
| 4/26/2015 4:28:38 | 53.81 | 49.71 | 188 | 7.89 | 0.40 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:28:40 | 54.13 | 50.03 | 183 | 6.73 | 0.39 | 10.0 |
| 4/26/2015 | 4:28:46 | 54.46 | 50.36 | 0 | 3.21 | 0.37 | 0.0 |
| 4/26/2015 | 4:28:47 | 54.79 | 50.69 | 120 | 3.14 | 0.36 | 6.6 |
| 4/26/2015 | 4:28:47 | 55.12 | 51.02 | 217 | 2.76 | 0.36 | 11.9 |
| 4/26/2015 | 4:28:48 | 55.45 | 51.35 | 320 | 3.26 | 0.36 | 17.5 |
| 4/26/2015 | 4:30:09 | 55.77 | 51.67 | 125 | 2.48 | 0.36 | 6.9 |
| 4/26/2015 | 4:30:09 | 56.10 | 52.00 | 223 | 2.84 | 0.37 | 12.2 |
| 4/26/2015 | 4:30:10 | 56.43 | 52.33 | 382 | 2.62 | 0.37 | 20.9 |
| 4/26/2015 | 4:30:11 | 56.76 | 52.66 | 402 | 3.71 | 0.37 | 22.0 |
| 4/26/2015 | 4:30:12 | 57.09 | 52.99 | 362 | 4.16 | 0.38 | 19.8 |
| 4/26/2015 | 4:30:14 | 57.41 | 53.31 | 208 | 4.17 | 0.39 | 11.4 |
| 4/26/2015 | 4:30:16 | 57.74 | 53.64 | 156 | 3.23 | 0.38 | 8.5 |
| 4/26/2015 | 4:30:18 | 58.07 | 53.97 | 209 | 3.20 | 0.38 | 11.4 |
| 4/26/2015 | 4:30:20 | 58.40 | 54.30 | 212 | 3.88 | 0.40 | 11.6 |
| 4/26/2015 | 4:30:52 | 58.73 | 54.63 | 67 | 3.94 | 0.40 | 3.7 |
| 4/26/2015 | 4:30:52 | 58.77 | 54.67 | 67 | 3.94 | 0.40 | 3.7 |

## H356 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:24:42

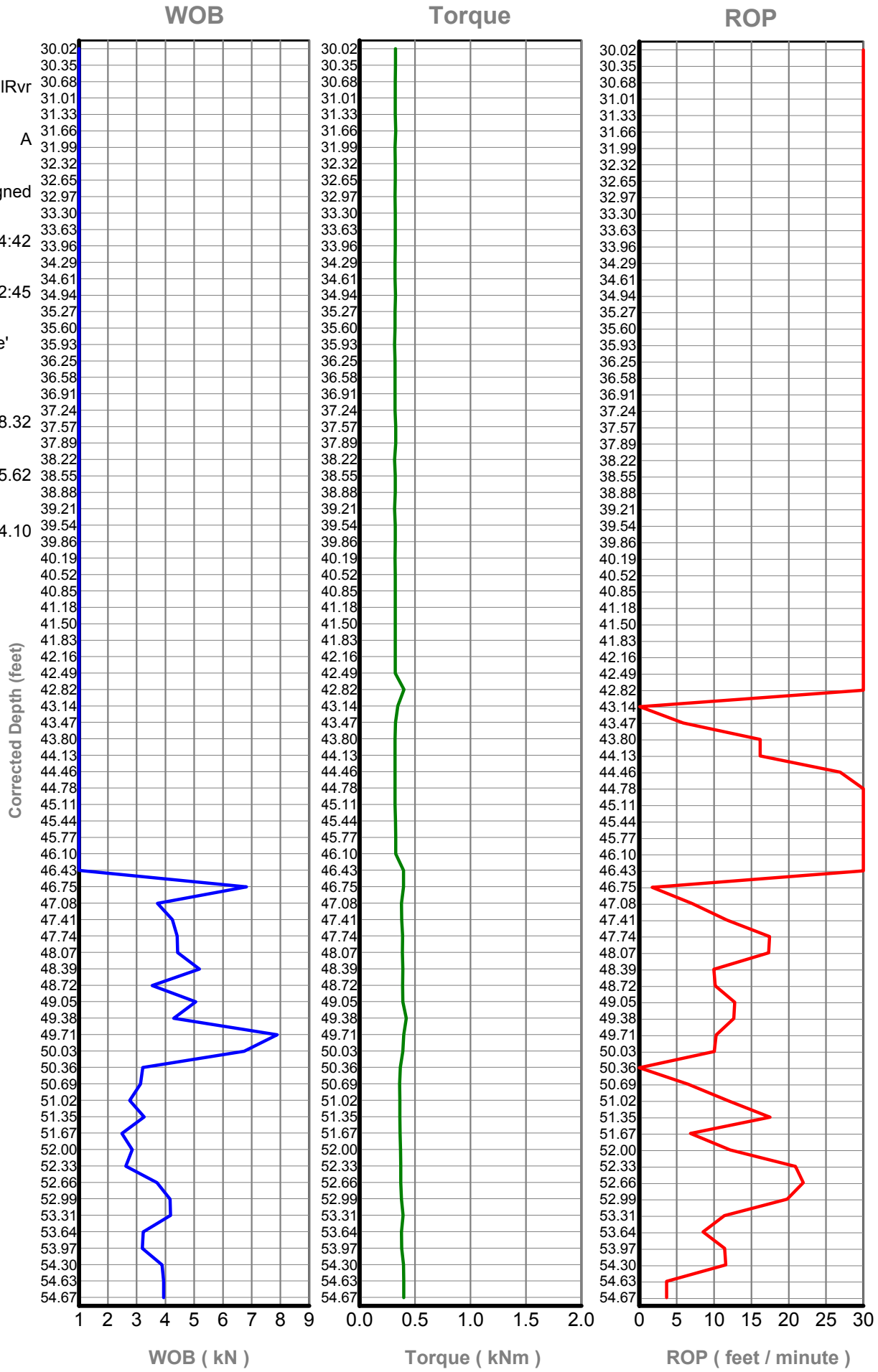
**End Date:**
4/26/2015 4:32:45

**Operator Note:**
'4.1 3.8 b Auto Complete'

**Northing:**
365,988.32

**Easting:**
250,445.62

**Tide (feet):**
4.10



## Hole: H357 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 4:18:06 | 34.12 | 30.22 | 969 | 0.34 | 0.33 | 53.0 |
| 4/26/2015 4:18:06 | 34.45 | 30.55 | 986 | 0.33 | 0.35 | 53.9 |
| 4/26/2015 4:18:06 | 34.78 | 30.88 | 977 | 0.33 | 0.38 | 53.4 |
| 4/26/2015 4:18:07 | 35.11 | 31.21 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 4:18:08 | 35.43 | 31.53 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 4:18:08 | 35.76 | 31.86 | 977 | 0.33 | 0.33 | 53.4 |
| 4/26/2015 4:18:08 | 36.09 | 32.19 | 971 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 4:18:09 | 36.42 | 32.52 | 971 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 4:18:09 | 36.75 | 32.85 | 960 | 0.33 | 0.32 | 52.5 |
| 4/26/2015 4:18:09 | 37.07 | 33.17 | 966 | 0.33 | 0.32 | 52.8 |
| 4/26/2015 4:18:10 | 37.40 | 33.50 | 957 | 0.33 | 0.32 | 52.3 |
| 4/26/2015 4:18:10 | 37.73 | 33.83 | 957 | 0.33 | 0.32 | 52.3 |
| 4/26/2015 4:18:10 | 38.06 | 34.16 | 966 | 0.33 | 0.32 | 52.8 |
| 4/26/2015 4:18:11 | 38.39 | 34.49 | 966 | 0.33 | 0.33 | 52.8 |
| 4/26/2015 4:18:11 | 38.71 | 34.81 | 966 | 0.33 | 0.33 | 52.8 |
| 4/26/2015 4:18:11 | 39.04 | 35.14 | 961 | 0.34 | 0.32 | 52.5 |
| 4/26/2015 4:18:12 | 39.37 | 35.47 | 961 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:12 | 39.70 | 35.80 | 961 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:12 | 40.03 | 36.13 | 968 | 0.33 | 0.32 | 52.9 |
| 4/26/2015 4:18:13 | 40.35 | 36.45 | 974 | 0.33 | 0.33 | 53.2 |
| 4/26/2015 4:18:13 | 40.68 | 36.78 | 965 | 0.33 | 0.33 | 52.8 |
| 4/26/2015 4:18:14 | 41.01 | 37.11 | 965 | 0.33 | 0.33 | 52.8 |
| 4/26/2015 4:18:14 | 41.34 | 37.44 | 968 | 0.33 | 0.32 | 52.9 |
| 4/26/2015 4:18:14 | 41.67 | 37.77 | 984 | 0.33 | 0.33 | 53.8 |
| 4/26/2015 4:18:15 | 41.99 | 38.09 | 984 | 0.33 | 0.33 | 53.8 |
| 4/26/2015 4:18:15 | 42.32 | 38.42 | 971 | 0.34 | 0.32 | 53.1 |
| 4/26/2015 4:18:15 | 42.65 | 38.75 | 974 | 0.33 | 0.32 | 53.3 |
| 4/26/2015 4:18:16 | 42.98 | 39.08 | 974 | 0.33 | 0.32 | 53.3 |
| 4/26/2015 4:18:16 | 43.31 | 39.41 | 974 | 0.33 | 0.33 | 53.3 |
| 4/26/2015 4:18:16 | 43.64 | 39.74 | 980 | 0.33 | 0.33 | 53.6 |
| 4/26/2015 4:18:17 | 43.96 | 40.06 | 971 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 4:18:18 | 44.29 | 40.39 | 971 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 4:18:18 | 44.62 | 40.72 | 971 | 0.33 | 0.32 | 53.1 |
| 4/26/2015 4:18:18 | 44.95 | 41.05 | 963 | 0.33 | 0.32 | 52.7 |
| 4/26/2015 4:18:19 | 45.28 | 41.38 | 963 | 0.33 | 0.32 | 52.7 |
| 4/26/2015 4:18:19 | 45.60 | 41.70 | 971 | 0.33 | 0.33 | 53.1 |
| 4/26/2015 4:18:19 | 45.93 | 42.03 | 960 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:20 | 46.26 | 42.36 | 963 | 0.33 | 0.33 | 52.6 |
| 4/26/2015 4:18:20 | 46.59 | 42.69 | 963 | 0.33 | 0.33 | 52.6 |
| 4/26/2015 4:18:20 | 46.92 | 43.02 | 960 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:21 | 47.24 | 43.34 | 960 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:21 | 47.57 | 43.67 | 960 | 0.33 | 0.33 | 52.5 |
| 4/26/2015 4:18:21 | 47.90 | 44.00 | 957 | 0.34 | 0.33 | 52.3 |
| 4/26/2015 4:18:22 | 48.23 | 44.33 | 960 | 0.35 | 0.32 | 52.5 |
| 4/26/2015 4:18:22 | 48.56 | 44.66 | 954 | 0.33 | 0.32 | 52.2 |
| 4/26/2015 4:18:23 | 48.88 | 44.98 | 954 | 0.33 | 0.32 | 52.2 |
| 4/26/2015 4:18:23 | 49.21 | 45.31 | 966 | 0.33 | 0.33 | 52.8 |
| 4/26/2015 4:18:23 | 49.54 | 45.64 | 963 | 0.33 | 0.33 | 52.6 |
| 4/26/2015 4:18:24 | 49.87 | 45.97 | 963 | 0.33 | 0.33 | 52.6 |
| 4/26/2015 4:18:52 | 50.20 | 46.30 | 0 | 2.57 | 0.34 | 0.0 |
| 4/26/2015 4:18:52 | 50.53 | 46.63 | 85 | 2.97 | 0.37 | 4.7 |
| 4/26/2015 4:19:00 | 50.85 | 46.95 | 23 | 4.92 | 0.40 | 1.3 |
| 4/26/2015 4:19:03 | 51.18 | 47.28 | 37 | 3.35 | 0.37 | 2.0 |
| 4/26/2015 4:19:10 | 51.51 | 47.61 | 3 | 3.88 | 0.35 | 0.2 |
| 4/26/2015 4:19:11 | 51.84 | 47.94 | 100 | 4.02 | 0.38 | 5.5 |
| 4/26/2015 4:19:25 | 52.17 | 48.27 | 0 | 3.14 | 0.38 | 0.0 |
| 4/26/2015 4:19:31 | 52.49 | 48.59 | 57 | 6.04 | 0.39 | 3.1 |
| 4/26/2015 4:19:37 | 52.82 | 48.92 | 32 | 3.58 | 0.40 | 1.8 |
| 4/26/2015 4:19:49 | 53.15 | 49.25 | 48 | 4.25 | 0.37 | 2.7 |
| 4/26/2015 4:20:20 | 53.48 | 49.58 | 61 | 4.21 | 0.38 | 3.3 |
| 4/26/2015 4:20:21 | 53.81 | 49.91 | 186 | 3.03 | 0.36 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:20:21 | 54.13 | 50.23 | 294 | 4.13 | 0.37 | 16.1 |
| 4/26/2015 | 4:20:30 | 54.46 | 50.56 | 0 | 3.66 | 0.38 | 0.0 |
| 4/26/2015 | 4:20:32 | 54.79 | 50.89 | 144 | 2.79 | 0.37 | 7.9 |
| 4/26/2015 | 4:20:32 | 55.12 | 51.22 | 233 | 2.57 | 0.36 | 12.7 |
| 4/26/2015 | 4:20:33 | 55.45 | 51.55 | 315 | 2.69 | 0.36 | 17.2 |
| 4/26/2015 | 4:20:34 | 55.77 | 51.87 | 404 | 2.61 | 0.36 | 22.1 |
| 4/26/2015 | 4:20:35 | 56.10 | 52.20 | 535 | 2.74 | 0.37 | 29.3 |
| 4/26/2015 | 4:20:35 | 56.43 | 52.53 | 538 | 2.36 | 0.37 | 29.4 |
| 4/26/2015 | 4:20:36 | 56.76 | 52.86 | 469 | 2.61 | 0.38 | 25.6 |
| 4/26/2015 | 4:20:38 | 57.09 | 53.19 | 236 | 2.91 | 0.40 | 12.9 |
| 4/26/2015 | 4:20:42 | 57.41 | 53.51 | 84 | 4.89 | 0.38 | 4.6 |
| 4/26/2015 | 4:20:44 | 57.74 | 53.84 | 170 | 5.29 | 0.39 | 9.3 |
| 4/26/2015 | 4:20:45 | 58.07 | 54.17 | 224 | 4.23 | 0.38 | 12.2 |
| 4/26/2015 | 4:20:47 | 58.40 | 54.50 | 240 | 3.85 | 0.37 | 13.1 |
| 4/26/2015 | 4:20:48 | 58.57 | 54.67 | 224 | 4.10 | 0.38 | 12.2 |

## H357 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:15:17

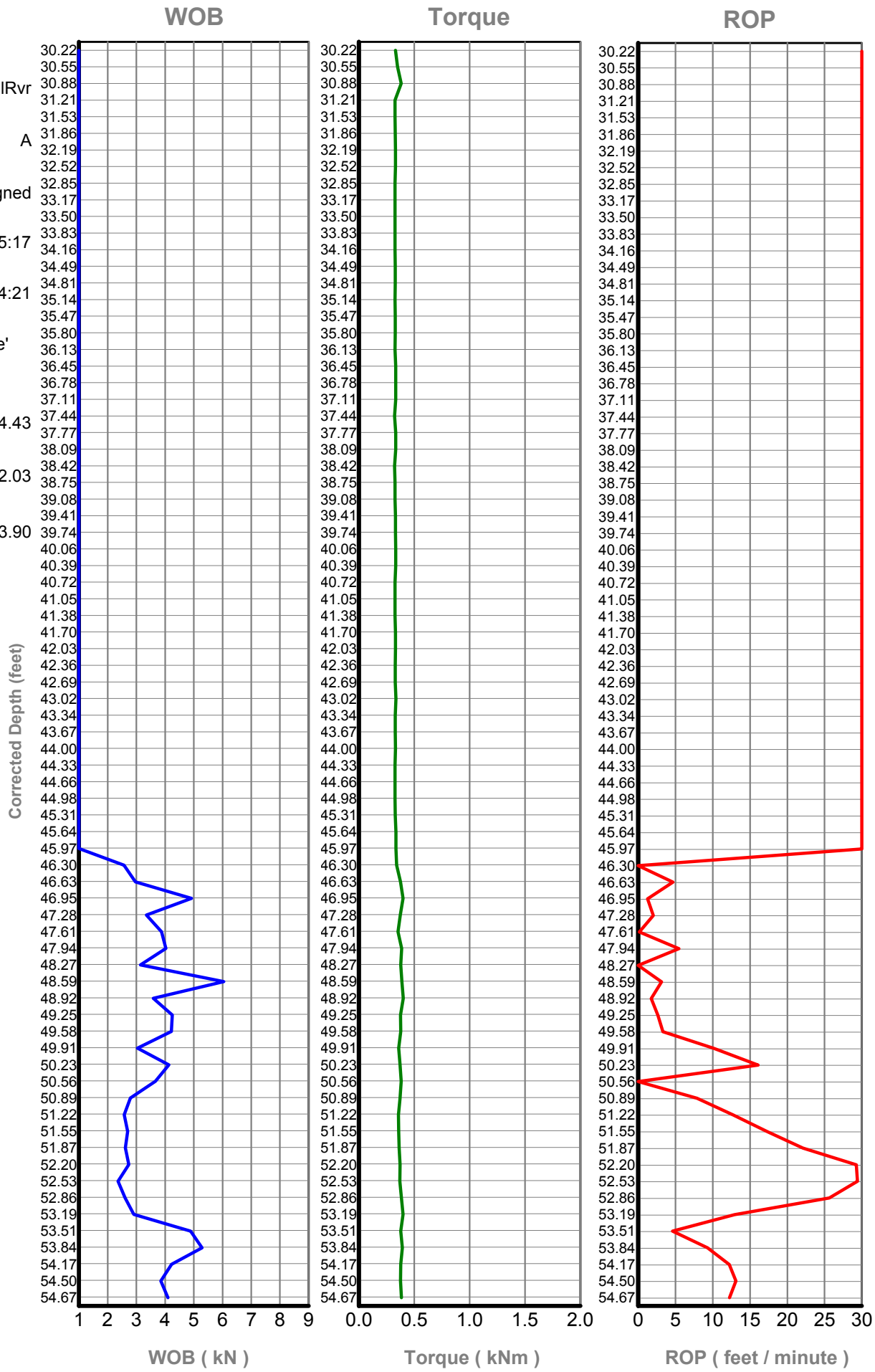
**End Date:**
4/26/2015 4:24:21

**Operator Note:**
'3.9 3.5 b Auto Complete'

**Northing:**
366,024.43

**Easting:**
250,492.03

**Tide (feet):**
3.90



## Hole: H358 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 4:18:21 | 34.12 | 30.22 | 577 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:22 | 34.45 | 30.55 | 584 | 1.79 | 0.16 | 31.9 |
| 4/26/2015 4:18:23 | 34.78 | 30.88 | 581 | 1.78 | 0.16 | 31.8 |
| 4/26/2015 4:18:24 | 35.11 | 31.21 | 575 | 1.79 | 0.16 | 31.4 |
| 4/26/2015 4:18:24 | 35.43 | 31.53 | 571 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 4:18:24 | 35.76 | 31.86 | 571 | 1.78 | 0.15 | 31.2 |
| 4/26/2015 4:18:25 | 36.09 | 32.19 | 574 | 1.80 | 0.16 | 31.4 |
| 4/26/2015 4:18:26 | 36.42 | 32.52 | 574 | 1.81 | 0.16 | 31.4 |
| 4/26/2015 4:18:27 | 36.75 | 32.85 | 583 | 1.79 | 0.16 | 31.9 |
| 4/26/2015 4:18:27 | 37.07 | 33.17 | 590 | 1.79 | 0.16 | 32.3 |
| 4/26/2015 4:18:28 | 37.40 | 33.50 | 581 | 1.80 | 0.16 | 31.8 |
| 4/26/2015 4:18:28 | 37.73 | 33.83 | 584 | 1.80 | 0.16 | 31.9 |
| 4/26/2015 4:18:29 | 38.06 | 34.16 | 588 | 1.79 | 0.16 | 32.2 |
| 4/26/2015 4:18:30 | 38.39 | 34.49 | 578 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:30 | 38.71 | 34.81 | 571 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 4:18:31 | 39.04 | 35.14 | 571 | 1.78 | 0.16 | 31.2 |
| 4/26/2015 4:18:31 | 39.37 | 35.47 | 575 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 4:18:32 | 39.70 | 35.80 | 572 | 1.78 | 0.16 | 31.3 |
| 4/26/2015 4:18:32 | 40.03 | 36.13 | 579 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:33 | 40.35 | 36.45 | 588 | 1.76 | 0.16 | 32.2 |
| 4/26/2015 4:18:34 | 40.68 | 36.78 | 581 | 1.77 | 0.16 | 31.8 |
| 4/26/2015 4:18:34 | 41.01 | 37.11 | 584 | 1.77 | 0.16 | 31.9 |
| 4/26/2015 4:18:35 | 41.34 | 37.44 | 578 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:36 | 41.67 | 37.77 | 578 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:37 | 41.99 | 38.09 | 575 | 2.06 | 0.16 | 31.4 |
| 4/26/2015 4:18:37 | 42.32 | 38.42 | 578 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:38 | 42.65 | 38.75 | 578 | 1.79 | 0.16 | 31.6 |
| 4/26/2015 4:18:38 | 42.98 | 39.08 | 578 | 1.80 | 0.16 | 31.6 |
| 4/26/2015 4:18:39 | 43.31 | 39.41 | 558 | 1.80 | 0.16 | 30.5 |
| 4/26/2015 4:18:39 | 43.64 | 39.74 | 558 | 1.80 | 0.16 | 30.5 |
| 4/26/2015 4:18:40 | 43.96 | 40.06 | 569 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 4:18:41 | 44.29 | 40.39 | 569 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 4:18:41 | 44.62 | 40.72 | 569 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 4:18:42 | 44.95 | 41.05 | 586 | 1.77 | 0.16 | 32.1 |
| 4/26/2015 4:18:42 | 45.28 | 41.38 | 575 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 4:18:43 | 45.60 | 41.70 | 575 | 1.80 | 0.16 | 31.4 |
| 4/26/2015 4:18:44 | 45.93 | 42.03 | 572 | 1.82 | 0.16 | 31.3 |
| 4/26/2015 4:18:44 | 46.26 | 42.36 | 572 | 1.80 | 0.16 | 31.3 |
| 4/26/2015 4:18:45 | 46.59 | 42.69 | 575 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 4:18:45 | 46.92 | 43.02 | 572 | 1.77 | 0.16 | 31.3 |
| 4/26/2015 4:18:47 | 47.24 | 43.34 | 576 | 1.78 | 0.16 | 31.5 |
| 4/26/2015 4:18:47 | 47.57 | 43.67 | 578 | 1.78 | 0.16 | 31.6 |
| 4/26/2015 4:18:48 | 47.90 | 44.00 | 575 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 4:18:48 | 48.23 | 44.33 | 575 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 4:18:49 | 48.56 | 44.66 | 569 | 1.81 | 0.16 | 31.1 |
| 4/26/2015 4:18:50 | 48.88 | 44.98 | 572 | 1.79 | 0.16 | 31.3 |
| 4/26/2015 4:18:50 | 49.21 | 45.31 | 575 | 1.76 | 0.16 | 31.5 |
| 4/26/2015 4:19:22 | 49.54 | 45.64 | 44 | 1.71 | 1.18 | 2.4 |
| 4/26/2015 4:19:23 | 49.87 | 45.97 | 182 | 1.74 | 1.25 | 10.0 |
| 4/26/2015 4:19:33 | 50.20 | 46.30 | 46 | 1.74 | 1.21 | 2.5 |
| 4/26/2015 4:19:34 | 50.53 | 46.63 | 190 | 1.76 | 1.06 | 10.4 |
| 4/26/2015 4:19:42 | 50.85 | 46.95 | 71 | 1.77 | 1.20 | 3.9 |
| 4/26/2015 4:19:43 | 51.18 | 47.28 | 198 | 1.72 | 1.48 | 10.8 |
| 4/26/2015 4:19:56 | 51.51 | 47.61 | 128 | 1.75 | 1.27 | 7.0 |
| 4/26/2015 4:19:57 | 51.84 | 47.94 | 185 | 1.72 | 1.09 | 10.1 |
| 4/26/2015 4:19:59 | 52.17 | 48.27 | 262 | 1.77 | 1.27 | 14.3 |
| 4/26/2015 4:20:25 | 52.49 | 48.59 | 9 | 1.76 | 1.13 | 0.5 |
| 4/26/2015 4:20:27 | 52.82 | 48.92 | 170 | 1.77 | 1.08 | 9.3 |
| 4/26/2015 4:20:59 | 53.15 | 49.25 | 8 | 1.80 | 1.47 | 0.5 |
| 4/26/2015 4:21:01 | 53.48 | 49.58 | 132 | 1.76 | 1.16 | 7.2 |
| 4/26/2015 4:21:03 | 53.81 | 49.91 | 220 | 1.79 | 1.03 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:21:04 | 54.13 | 50.23 | 289 | 1.76 | 1.04 | 15.8 |
| 4/26/2015 | 4:21:04 | 54.46 | 50.56 | 324 | 1.74 | 1.14 | 17.7 |
| 4/26/2015 | 4:21:06 | 54.79 | 50.89 | 345 | 1.74 | 1.12 | 18.9 |
| 4/26/2015 | 4:21:07 | 55.12 | 51.22 | 325 | 1.74 | 1.04 | 17.8 |
| 4/26/2015 | 4:21:08 | 55.45 | 51.55 | 270 | 1.75 | 1.31 | 14.7 |
| 4/26/2015 | 4:21:10 | 55.77 | 51.87 | 211 | 1.74 | 1.11 | 11.5 |
| 4/26/2015 | 4:21:12 | 56.10 | 52.20 | 209 | 1.74 | 1.08 | 11.4 |
| 4/26/2015 | 4:21:21 | 56.43 | 52.53 | 77 | 1.76 | 1.01 | 4.2 |
| 4/26/2015 | 4:21:22 | 56.76 | 52.86 | 196 | 1.74 | 1.11 | 10.7 |
| 4/26/2015 | 4:21:26 | 57.09 | 53.19 | 125 | 1.34 | 1.09 | 6.8 |
| 4/26/2015 | 4:21:33 | 57.41 | 53.51 | 0 | 1.43 | 1.00 | 0.0 |
| 4/26/2015 | 4:21:35 | 57.74 | 53.84 | 131 | 1.43 | 1.42 | 7.1 |
| 4/26/2015 | 4:21:40 | 58.07 | 54.17 | 98 | 1.76 | 1.09 | 5.4 |
| 4/26/2015 | 4:21:41 | 58.40 | 54.50 | 125 | 1.76 | 1.33 | 6.8 |
| 4/26/2015 | 4:21:43 | 58.57 | 54.67 | 183 | 1.75 | 1.15 | 10.0 |

## H358 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:16:22

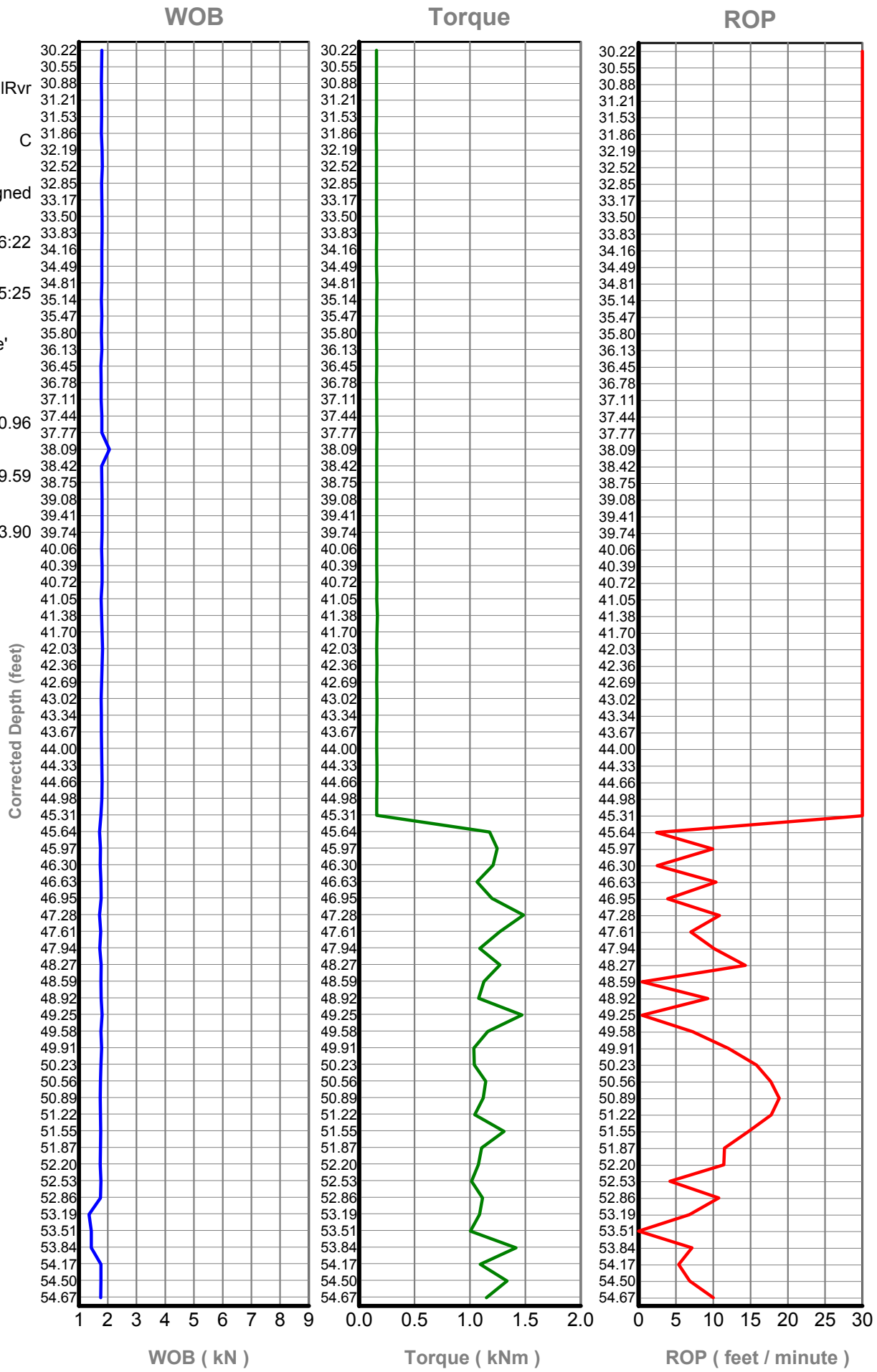
**End Date:**
4/26/2015 4:25:25

**Operator Note:**
'3.9 3.5 c Auto Complete'

**Northing:**
366,070.96

**Easting:**
250,549.59

**Tide (feet):**
3.90



## Hole: H359 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:01:06 | 35.76 | 30.26 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 18:01:06 | 36.09 | 30.59 | 1,065 | 0.32 | 0.32 | 58.2 |
| 4/25/2015 18:01:07 | 36.42 | 30.92 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/25/2015 18:01:07 | 36.75 | 31.25 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/25/2015 18:01:07 | 37.07 | 31.57 | 1,028 | 0.29 | 0.31 | 56.2 |
| 4/25/2015 18:01:08 | 37.40 | 31.90 | 1,028 | 0.29 | 0.32 | 56.2 |
| 4/25/2015 18:01:08 | 37.73 | 32.23 | 1,028 | 0.29 | 0.32 | 56.2 |
| 4/25/2015 18:01:08 | 38.06 | 32.56 | 1,063 | 0.30 | 0.32 | 58.1 |
| 4/25/2015 18:01:09 | 38.39 | 32.89 | 1,063 | 0.30 | 0.32 | 58.1 |
| 4/25/2015 18:01:09 | 38.71 | 33.21 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/25/2015 18:01:09 | 39.04 | 33.54 | 1,056 | 0.30 | 0.31 | 57.8 |
| 4/25/2015 18:01:10 | 39.37 | 33.87 | 1,056 | 0.30 | 0.31 | 57.8 |
| 4/25/2015 18:01:10 | 39.70 | 34.20 | 1,062 | 0.30 | 0.32 | 58.1 |
| 4/25/2015 18:01:10 | 40.03 | 34.53 | 1,090 | 0.30 | 0.32 | 59.6 |
| 4/25/2015 18:01:11 | 40.35 | 34.85 | 1,090 | 0.30 | 0.32 | 59.6 |
| 4/25/2015 18:01:11 | 40.68 | 35.18 | 1,078 | 0.30 | 0.31 | 59.0 |
| 4/25/2015 18:01:12 | 41.01 | 35.51 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/25/2015 18:01:12 | 41.34 | 35.84 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/25/2015 18:01:12 | 41.67 | 36.17 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/25/2015 18:01:13 | 41.99 | 36.49 | 1,058 | 0.30 | 0.31 | 57.9 |
| 4/25/2015 18:01:13 | 42.32 | 36.82 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/25/2015 18:01:13 | 42.65 | 37.15 | 1,078 | 0.30 | 0.32 | 58.9 |
| 4/25/2015 18:01:14 | 42.98 | 37.48 | 1,078 | 0.30 | 0.32 | 58.9 |
| 4/25/2015 18:01:14 | 43.31 | 37.81 | 1,071 | 0.30 | 0.31 | 58.6 |
| 4/25/2015 18:01:14 | 43.64 | 38.14 | 1,065 | 0.30 | 0.31 | 58.3 |
| 4/25/2015 18:01:15 | 43.96 | 38.46 | 1,065 | 0.30 | 0.31 | 58.3 |
| 4/25/2015 18:01:15 | 44.29 | 38.79 | 1,089 | 0.29 | 0.32 | 59.5 |
| 4/25/2015 18:01:15 | 44.62 | 39.12 | 1,070 | 0.30 | 0.32 | 58.5 |
| 4/25/2015 18:01:16 | 44.95 | 39.45 | 1,070 | 0.30 | 0.32 | 58.5 |
| 4/25/2015 18:01:16 | 45.28 | 39.78 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/25/2015 18:01:16 | 45.60 | 40.10 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 18:01:17 | 45.93 | 40.43 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 18:01:17 | 46.26 | 40.76 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/25/2015 18:01:17 | 46.59 | 41.09 | 1,047 | 0.30 | 0.32 | 57.3 |
| 4/25/2015 18:01:18 | 46.92 | 41.42 | 1,047 | 0.30 | 0.32 | 57.3 |
| 4/25/2015 18:01:18 | 47.24 | 41.74 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/25/2015 18:01:18 | 47.57 | 42.07 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 18:01:19 | 47.90 | 42.40 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/25/2015 18:01:19 | 48.23 | 42.73 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 18:01:19 | 48.56 | 43.06 | 1,053 | 0.30 | 0.32 | 57.6 |
| 4/25/2015 18:01:20 | 48.88 | 43.38 | 1,053 | 0.30 | 0.32 | 57.6 |
| 4/25/2015 18:01:20 | 49.21 | 43.71 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 18:01:20 | 49.54 | 44.04 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 18:01:20 | 49.87 | 44.37 | 1,047 | 0.30 | 0.32 | 57.2 |
| 4/25/2015 18:01:21 | 50.20 | 44.70 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 18:01:21 | 50.53 | 45.03 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/25/2015 18:01:21 | 50.85 | 45.35 | 1,043 | 0.29 | 0.32 | 57.1 |
| 4/25/2015 18:01:22 | 51.18 | 45.68 | 1,046 | 0.29 | 0.34 | 57.2 |
| 4/25/2015 18:01:28 | 51.51 | 46.01 | 0 | 2.76 | 0.33 | 0.0 |
| 4/25/2015 18:01:29 | 51.84 | 46.34 | 112 | 7.53 | 0.40 | 6.1 |
| 4/25/2015 18:01:31 | 52.17 | 46.67 | 133 | 3.16 | 0.36 | 7.3 |
| 4/25/2015 18:01:32 | 52.49 | 46.99 | 338 | 3.13 | 0.36 | 18.5 |
| 4/25/2015 18:01:33 | 52.82 | 47.32 | 387 | 4.00 | 0.38 | 21.2 |
| 4/25/2015 18:01:38 | 53.15 | 47.65 | 29 | 4.25 | 0.41 | 1.6 |
| 4/25/2015 18:01:39 | 53.48 | 47.98 | 154 | 3.03 | 0.36 | 8.4 |
| 4/25/2015 18:01:40 | 53.81 | 48.31 | 329 | 3.03 | 0.37 | 18.0 |
| 4/25/2015 18:01:40 | 54.13 | 48.63 | 405 | 3.34 | 0.36 | 22.2 |
| 4/25/2015 18:01:48 | 54.46 | 48.96 | 73 | 8.23 | 0.39 | 4.0 |
| 4/25/2015 18:01:52 | 54.79 | 49.29 | 112 | 4.19 | 0.38 | 6.1 |
| 4/25/2015 18:01:53 | 55.12 | 49.62 | 199 | 3.20 | 0.35 | 10.9 |
| 4/25/2015 18:01:54 | 55.45 | 49.95 | 311 | 2.19 | 0.35 | 17.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 18:01:54 | 55.77 | 50.27 | 399 | 2.10 | 0.34 | 21.8 |
| 4/25/2015 | 18:01:55 | 56.10 | 50.60 | 487 | 2.71 | 0.35 | 26.7 |
| 4/25/2015 | 18:01:55 | 56.43 | 50.93 | 584 | 2.52 | 0.36 | 31.9 |
| 4/25/2015 | 18:01:56 | 56.76 | 51.26 | 656 | 2.59 | 0.35 | 35.9 |
| 4/25/2015 | 18:01:56 | 57.09 | 51.59 | 643 | 2.53 | 0.35 | 35.2 |
| 4/25/2015 | 18:01:57 | 57.41 | 51.91 | 602 | 3.66 | 0.37 | 32.9 |
| 4/25/2015 | 18:01:59 | 57.74 | 52.24 | 344 | 4.20 | 0.37 | 18.8 |
| 4/25/2015 | 18:02:00 | 58.07 | 52.57 | 240 | 4.74 | 0.37 | 13.1 |
| 4/25/2015 | 18:02:01 | 58.40 | 52.90 | 275 | 3.68 | 0.39 | 15.1 |
| 4/25/2015 | 18:02:07 | 58.73 | 53.23 | 106 | 2.59 | 0.37 | 5.8 |
| 4/25/2015 | 18:02:08 | 59.06 | 53.56 | 180 | 2.23 | 0.36 | 9.8 |
| 4/25/2015 | 18:02:08 | 59.38 | 53.88 | 280 | 3.77 | 0.36 | 15.3 |
| 4/25/2015 | 18:02:12 | 59.71 | 54.21 | 116 | 3.87 | 0.38 | 6.4 |
| 4/25/2015 | 18:02:13 | 60.04 | 54.54 | 182 | 3.52 | 0.38 | 9.9 |
| 4/25/2015 | 18:02:21 | 60.37 | 54.87 | 6 | 5.07 | 0.40 | 0.3 |
| 4/25/2015 | 18:02:21 | 60.41 | 54.91 | 14 | 4.12 | 0.41 | 0.8 |

## H359 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:59:28

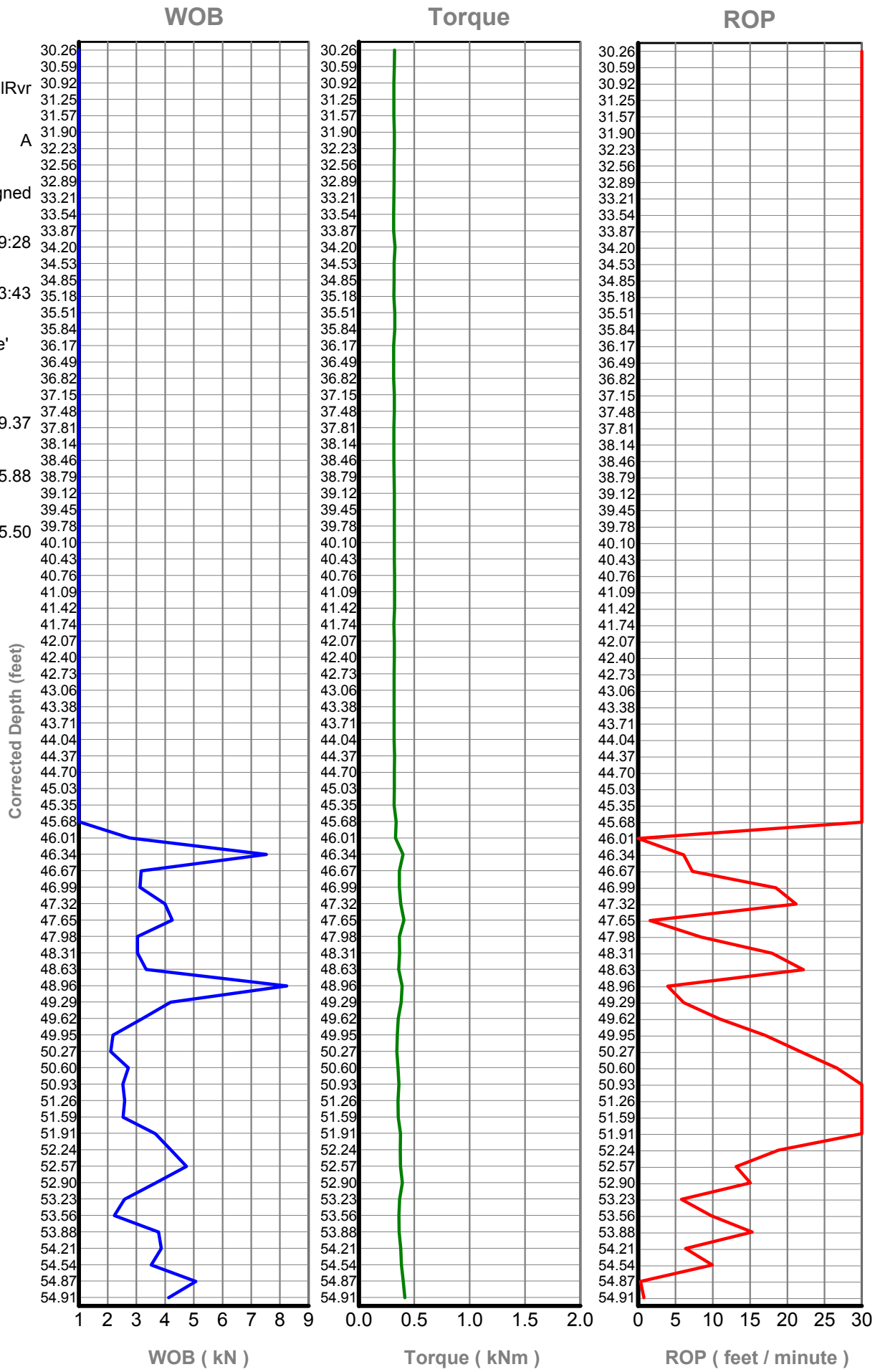
**End Date:**
4/25/2015 18:03:43

**Operator Note:**
'5.5 5.4 b Auto Complete'

**Northing:**
366,129.37

**Easting:**
250,615.88

**Tide (feet):**
5.50



## Hole: H36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 17:46:58 | 35.11 | 30.31 | 567 | 2.02 | 0.34 | 31.0 |
| 4/24/2015 17:46:59 | 35.43 | 30.63 | 567 | 2.02 | 0.33 | 31.0 |
| 4/24/2015 17:46:59 | 35.76 | 30.96 | 566 | 2.02 | 0.34 | 31.0 |
| 4/24/2015 17:47:00 | 36.09 | 31.29 | 573 | 2.00 | 0.34 | 31.3 |
| 4/24/2015 17:47:00 | 36.42 | 31.62 | 570 | 2.02 | 0.33 | 31.1 |
| 4/24/2015 17:47:01 | 36.75 | 31.95 | 567 | 2.02 | 0.33 | 31.0 |
| 4/24/2015 17:47:02 | 37.07 | 32.27 | 569 | 2.02 | 0.34 | 31.1 |
| 4/24/2015 17:47:03 | 37.40 | 32.60 | 567 | 2.03 | 0.34 | 31.0 |
| 4/24/2015 17:47:03 | 37.73 | 32.93 | 567 | 2.00 | 0.34 | 31.0 |
| 4/24/2015 17:47:04 | 38.06 | 33.26 | 563 | 2.02 | 0.34 | 30.8 |
| 4/24/2015 17:47:04 | 38.39 | 33.59 | 567 | 2.02 | 0.34 | 31.0 |
| 4/24/2015 17:47:05 | 38.71 | 33.91 | 570 | 2.02 | 0.34 | 31.2 |
| 4/24/2015 17:47:06 | 39.04 | 34.24 | 570 | 2.02 | 0.34 | 31.2 |
| 4/24/2015 17:47:06 | 39.37 | 34.57 | 570 | 1.98 | 0.33 | 31.2 |
| 4/24/2015 17:47:07 | 39.70 | 34.90 | 570 | 2.02 | 0.34 | 31.2 |
| 4/24/2015 17:47:08 | 40.03 | 35.23 | 560 | 2.00 | 0.34 | 30.6 |
| 4/24/2015 17:47:08 | 40.35 | 35.55 | 570 | 2.00 | 0.33 | 31.2 |
| 4/24/2015 17:47:09 | 40.68 | 35.88 | 570 | 2.00 | 0.34 | 31.2 |
| 4/24/2015 17:47:09 | 41.01 | 36.21 | 567 | 2.02 | 0.34 | 31.0 |
| 4/24/2015 17:47:10 | 41.34 | 36.54 | 564 | 2.00 | 0.34 | 30.8 |
| 4/24/2015 17:47:11 | 41.67 | 36.87 | 564 | 1.98 | 0.34 | 30.8 |
| 4/24/2015 17:47:11 | 41.99 | 37.19 | 564 | 1.99 | 0.34 | 30.8 |
| 4/24/2015 17:47:12 | 42.32 | 37.52 | 560 | 2.00 | 0.34 | 30.6 |
| 4/24/2015 17:47:31 | 42.65 | 37.85 | 25 | 1.98 | 1.21 | 1.4 |
| 4/24/2015 17:47:34 | 42.98 | 38.18 | 177 | 2.01 | 1.21 | 9.7 |
| 4/24/2015 17:47:37 | 43.31 | 38.51 | 93 | 2.02 | 1.19 | 5.1 |
| 4/24/2015 17:47:39 | 43.64 | 38.84 | 129 | 1.99 | 1.20 | 7.1 |
| 4/24/2015 17:47:42 | 43.96 | 39.16 | 124 | 2.02 | 1.21 | 6.8 |
| 4/24/2015 17:47:46 | 44.29 | 39.49 | 111 | 2.02 | 1.26 | 6.1 |
| 4/24/2015 17:47:49 | 44.62 | 39.82 | 107 | 2.04 | 1.29 | 5.8 |
| 4/24/2015 17:47:54 | 44.95 | 40.15 | 75 | 2.03 | 1.26 | 4.1 |
| 4/24/2015 17:48:00 | 45.28 | 40.48 | 55 | 2.02 | 1.22 | 3.0 |
| 4/24/2015 17:48:06 | 45.60 | 40.80 | 59 | 2.01 | 1.20 | 3.2 |
| 4/24/2015 17:48:11 | 45.93 | 41.13 | 69 | 2.02 | 1.25 | 3.8 |
| 4/24/2015 17:48:17 | 46.26 | 41.46 | 61 | 2.03 | 1.20 | 3.3 |
| 4/24/2015 17:48:22 | 46.59 | 41.79 | 61 | 2.01 | 1.22 | 3.3 |
| 4/24/2015 17:48:29 | 46.92 | 42.12 | 58 | 2.02 | 1.18 | 3.2 |
| 4/24/2015 17:48:35 | 47.24 | 42.44 | 59 | 2.01 | 1.24 | 3.2 |
| 4/24/2015 17:48:36 | 47.30 | 42.50 | 57 | 2.01 | 1.30 | 3.1 |

## H36 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 17:43:25

**End Date:**
4/24/2015 17:49:41

**Operator Note:**
'4.8 4.7 C Auto Complete'

**Northing:**
367,247.79

**Easting:**
251,040.43

**Tide (feet):**
4.80



## Hole: H360 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:05:27 | 35.76 | 30.26 | 1,053 | 0.31 | 0.31 | 57.6 |
| 4/25/2015 18:05:27 | 36.09 | 30.59 | 1,053 | 0.30 | 0.31 | 57.6 |
| 4/25/2015 18:05:28 | 36.42 | 30.92 | 1,090 | 0.30 | 0.31 | 59.6 |
| 4/25/2015 18:05:28 | 36.75 | 31.25 | 1,090 | 0.30 | 0.31 | 59.6 |
| 4/25/2015 18:05:28 | 37.07 | 31.57 | 1,068 | 0.30 | 0.31 | 58.4 |
| 4/25/2015 18:05:29 | 37.40 | 31.90 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/25/2015 18:05:29 | 37.73 | 32.23 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/25/2015 18:05:29 | 38.06 | 32.56 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/25/2015 18:05:30 | 38.39 | 32.89 | 1,093 | 0.30 | 0.31 | 59.8 |
| 4/25/2015 18:05:31 | 38.71 | 33.21 | 1,093 | 0.30 | 0.31 | 59.8 |
| 4/25/2015 18:05:30 | 39.04 | 33.54 | 1,062 | 0.30 | 0.31 | 58.1 |
| 4/25/2015 18:05:31 | 39.37 | 33.87 | 1,062 | 0.30 | 0.31 | 58.1 |
| 4/25/2015 18:05:31 | 39.70 | 34.20 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/25/2015 18:05:31 | 40.03 | 34.53 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/25/2015 18:05:32 | 40.35 | 34.85 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/25/2015 18:05:32 | 40.68 | 35.18 | 1,084 | 0.30 | 0.31 | 59.3 |
| 4/25/2015 18:05:33 | 41.01 | 35.51 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:05:33 | 41.34 | 35.84 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 18:05:33 | 41.67 | 36.17 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/25/2015 18:05:34 | 41.99 | 36.49 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 18:05:34 | 42.32 | 36.82 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 18:05:34 | 42.65 | 37.15 | 1,064 | 0.30 | 0.33 | 58.2 |
| 4/25/2015 18:05:35 | 42.98 | 37.48 | 1,071 | 0.30 | 0.31 | 58.6 |
| 4/25/2015 18:05:35 | 43.31 | 37.81 | 1,071 | 0.30 | 0.31 | 58.6 |
| 4/25/2015 18:05:35 | 43.64 | 38.14 | 1,074 | 0.30 | 0.32 | 58.7 |
| 4/25/2015 18:05:36 | 43.96 | 38.46 | 1,074 | 0.30 | 0.32 | 58.7 |
| 4/25/2015 18:05:36 | 44.29 | 38.79 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/25/2015 18:05:36 | 44.62 | 39.12 | 1,060 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 18:05:37 | 44.95 | 39.45 | 1,060 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 18:05:37 | 45.28 | 39.78 | 1,079 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 18:05:37 | 45.60 | 40.10 | 1,083 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 18:05:38 | 45.93 | 40.43 | 1,083 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 18:05:38 | 46.26 | 40.76 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/25/2015 18:05:38 | 46.59 | 41.09 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/25/2015 18:05:39 | 46.92 | 41.42 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/25/2015 18:05:39 | 47.24 | 41.74 | 1,066 | 0.30 | 0.31 | 58.3 |
| 4/25/2015 18:05:39 | 47.57 | 42.07 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 18:05:40 | 47.90 | 42.40 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 18:05:40 | 48.23 | 42.73 | 1,052 | 0.31 | 0.23 | 57.5 |
| 4/25/2015 18:05:40 | 48.56 | 43.06 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 18:05:41 | 48.88 | 43.38 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 18:05:41 | 49.21 | 43.71 | 1,043 | 0.31 | 0.31 | 57.0 |
| 4/25/2015 18:05:41 | 49.54 | 44.04 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/25/2015 18:05:42 | 49.87 | 44.37 | 1,052 | 0.30 | 0.31 | 57.5 |
| 4/25/2015 18:05:42 | 50.20 | 44.70 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 18:05:42 | 50.53 | 45.03 | 1,044 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 18:05:42 | 50.85 | 45.35 | 1,050 | 0.29 | 0.33 | 57.4 |
| 4/25/2015 18:05:48 | 51.18 | 45.68 | 29 | 2.78 | 0.37 | 1.6 |
| 4/25/2015 18:05:57 | 51.51 | 46.01 | 106 | 3.37 | 0.35 | 5.8 |
| 4/25/2015 18:05:58 | 51.84 | 46.34 | 208 | 2.55 | 0.36 | 11.4 |
| 4/25/2015 18:06:04 | 52.17 | 46.67 | 0 | 2.45 | 0.35 | 0.0 |
| 4/25/2015 18:06:05 | 52.49 | 46.99 | 112 | 4.95 | 0.36 | 6.1 |
| 4/25/2015 18:06:06 | 52.82 | 47.32 | 268 | 3.52 | 0.36 | 14.6 |
| 4/25/2015 18:06:07 | 53.15 | 47.65 | 445 | 3.43 | 0.37 | 24.3 |
| 4/25/2015 18:06:07 | 53.48 | 47.98 | 413 | 3.48 | 0.36 | 22.6 |
| 4/25/2015 18:06:08 | 53.81 | 48.31 | 425 | 5.26 | 0.37 | 23.2 |
| 4/25/2015 18:06:09 | 54.13 | 48.63 | 393 | 3.93 | 0.37 | 21.5 |
| 4/25/2015 18:06:10 | 54.46 | 48.96 | 355 | 3.82 | 0.38 | 19.4 |
| 4/25/2015 18:06:11 | 54.79 | 49.29 | 318 | 3.69 | 0.37 | 17.4 |
| 4/25/2015 18:06:12 | 55.12 | 49.62 | 362 | 2.28 | 0.36 | 19.8 |
| 4/25/2015 18:06:13 | 55.45 | 49.95 | 395 | 2.58 | 0.36 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 18:06:13 | 55.77 | 50.27 | 430 | 3.59 | 0.37 | 23.5 |
| 4/25/2015 | 18:06:15 | 56.10 | 50.60 | 471 | 3.85 | 0.37 | 25.7 |
| 4/25/2015 | 18:06:16 | 56.43 | 50.93 | 447 | 3.63 | 0.37 | 24.5 |
| 4/25/2015 | 18:06:17 | 56.76 | 51.26 | 315 | 3.21 | 0.37 | 17.2 |
| 4/25/2015 | 18:06:18 | 57.09 | 51.59 | 279 | 4.34 | 0.38 | 15.2 |
| 4/25/2015 | 18:06:19 | 57.41 | 51.91 | 282 | 3.48 | 0.37 | 15.4 |
| 4/25/2015 | 18:06:20 | 57.74 | 52.24 | 339 | 6.22 | 0.37 | 18.6 |
| 4/25/2015 | 18:06:21 | 58.07 | 52.57 | 359 | 4.09 | 0.37 | 19.7 |
| 4/25/2015 | 18:06:22 | 58.40 | 52.90 | 363 | 2.68 | 0.36 | 19.9 |
| 4/25/2015 | 18:06:23 | 58.73 | 53.23 | 382 | 5.03 | 0.38 | 20.9 |
| 4/25/2015 | 18:06:26 | 59.06 | 53.56 | 165 | 3.81 | 0.39 | 9.0 |
| 4/25/2015 | 18:06:28 | 59.38 | 53.88 | 139 | 3.18 | 0.39 | 7.6 |
| 4/25/2015 | 18:06:30 | 59.71 | 54.21 | 156 | 3.36 | 0.38 | 8.5 |
| 4/25/2015 | 18:06:33 | 60.04 | 54.54 | 133 | 3.60 | 0.39 | 7.3 |
| 4/25/2015 | 18:06:37 | 60.37 | 54.87 | 90 | 2.90 | 0.38 | 4.9 |
| 4/25/2015 | 18:06:38 | 60.41 | 54.91 | 107 | 3.30 | 0.40 | 5.8 |

## H360 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 18:03:54

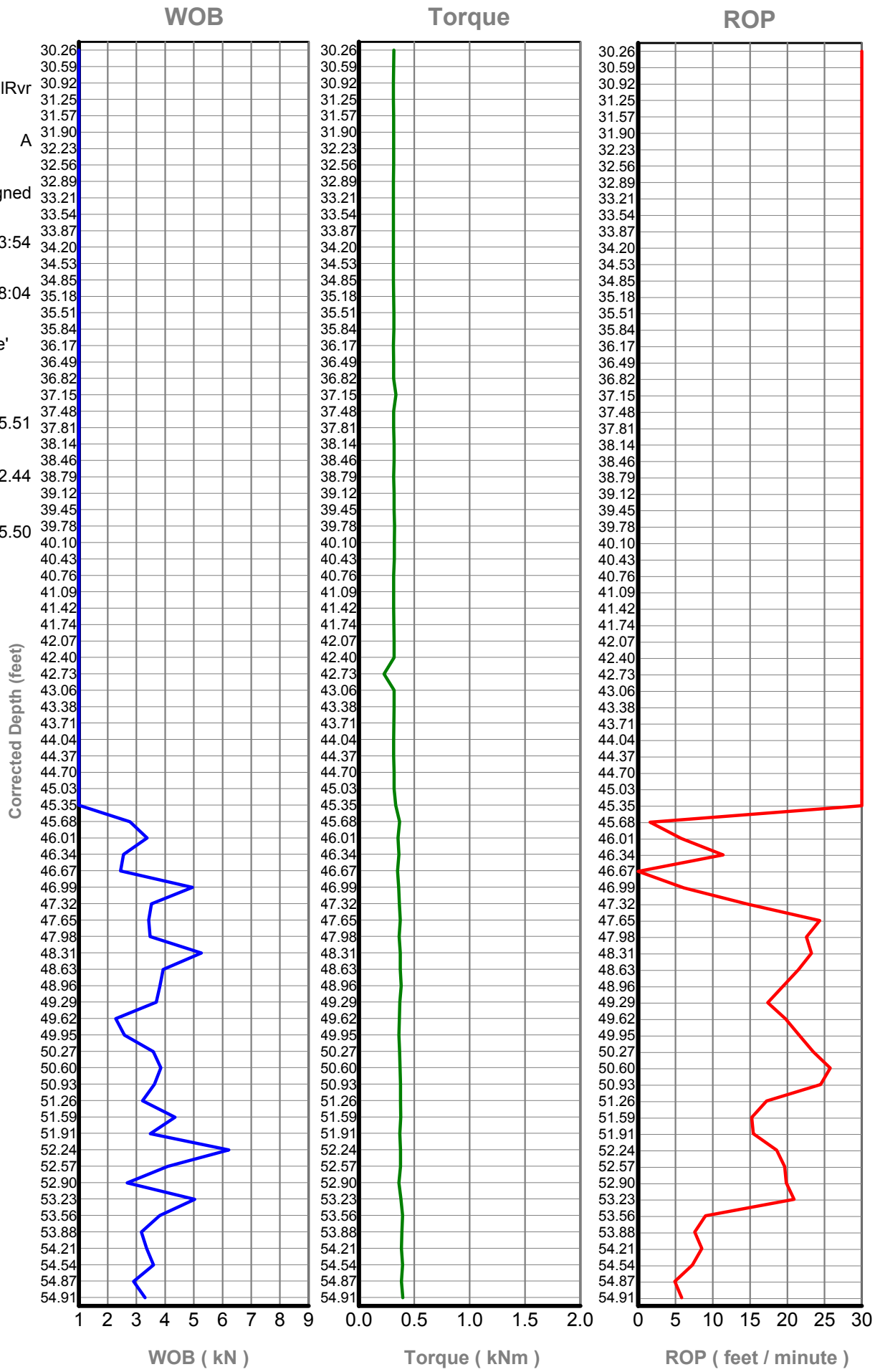
**End Date:**
4/25/2015 18:08:04

**Operator Note:**
'5.5 5.4 b Auto Complete'

**Northing:**
366,165.51

**Easting:**
250,662.44

**Tide (feet):**
5.50



## Hole: H361 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 18:00:26 | 35.76 | 30.26 | 625 | 1.79 | 0.31 | 34.2 |
| 4/25/2015 18:00:27 | 36.09 | 30.59 | 622 | 1.79 | 0.31 | 34.0 |
| 4/25/2015 18:00:27 | 36.42 | 30.92 | 624 | 1.78 | 0.30 | 34.1 |
| 4/25/2015 18:00:28 | 36.75 | 31.25 | 627 | 1.78 | 0.30 | 34.3 |
| 4/25/2015 18:00:29 | 37.07 | 31.57 | 621 | 1.81 | 0.30 | 33.9 |
| 4/25/2015 18:00:29 | 37.40 | 31.90 | 624 | 1.77 | 0.29 | 34.1 |
| 4/25/2015 18:00:30 | 37.73 | 32.23 | 627 | 1.78 | 0.30 | 34.3 |
| 4/25/2015 18:00:30 | 38.06 | 32.56 | 621 | 1.79 | 0.31 | 34.0 |
| 4/25/2015 18:00:31 | 38.39 | 32.89 | 621 | 1.77 | 0.30 | 34.0 |
| 4/25/2015 18:00:31 | 38.71 | 33.21 | 624 | 1.77 | 0.30 | 34.1 |
| 4/25/2015 18:00:32 | 39.04 | 33.54 | 624 | 1.77 | 0.30 | 34.1 |
| 4/25/2015 18:00:32 | 39.37 | 33.87 | 621 | 1.77 | 0.30 | 34.0 |
| 4/25/2015 18:00:33 | 39.70 | 34.20 | 628 | 1.78 | 0.30 | 34.3 |
| 4/25/2015 18:00:33 | 40.03 | 34.53 | 624 | 1.76 | 0.30 | 34.1 |
| 4/25/2015 18:00:35 | 40.35 | 34.85 | 621 | 1.77 | 0.30 | 33.9 |
| 4/25/2015 18:00:35 | 40.68 | 35.18 | 624 | 1.76 | 0.30 | 34.1 |
| 4/25/2015 18:00:36 | 41.01 | 35.51 | 621 | 1.77 | 0.30 | 33.9 |
| 4/25/2015 18:00:36 | 41.34 | 35.84 | 624 | 1.78 | 0.30 | 34.1 |
| 4/25/2015 18:00:37 | 41.67 | 36.17 | 622 | 1.78 | 0.30 | 34.0 |
| 4/25/2015 18:00:38 | 41.99 | 36.49 | 625 | 1.78 | 0.30 | 34.2 |
| 4/25/2015 18:00:39 | 42.32 | 36.82 | 625 | 1.78 | 0.30 | 34.2 |
| 4/25/2015 18:00:38 | 42.65 | 37.15 | 622 | 1.78 | 0.30 | 34.0 |
| 4/25/2015 18:00:39 | 42.98 | 37.48 | 622 | 1.79 | 0.30 | 34.0 |
| 4/25/2015 18:00:39 | 43.31 | 37.81 | 622 | 1.78 | 0.30 | 34.0 |
| 4/25/2015 18:00:40 | 43.64 | 38.14 | 607 | 1.77 | 0.29 | 33.2 |
| 4/25/2015 18:00:41 | 43.96 | 38.46 | 607 | 1.77 | 0.29 | 33.2 |
| 4/25/2015 18:00:41 | 44.29 | 38.79 | 617 | 1.78 | 0.29 | 33.7 |
| 4/25/2015 18:00:42 | 44.62 | 39.12 | 614 | 1.78 | 0.29 | 33.6 |
| 4/25/2015 18:00:42 | 44.95 | 39.45 | 613 | 1.84 | 0.29 | 33.5 |
| 4/25/2015 18:00:43 | 45.28 | 39.78 | 620 | 1.79 | 0.29 | 33.9 |
| 4/25/2015 18:00:43 | 45.60 | 40.10 | 628 | 1.76 | 0.29 | 34.3 |
| 4/25/2015 18:00:44 | 45.93 | 40.43 | 618 | 1.79 | 0.29 | 33.8 |
| 4/25/2015 18:00:45 | 46.26 | 40.76 | 624 | 1.78 | 0.29 | 34.1 |
| 4/25/2015 18:00:46 | 46.59 | 41.09 | 622 | 1.78 | 0.29 | 34.0 |
| 4/25/2015 18:00:46 | 46.92 | 41.42 | 612 | 1.77 | 0.29 | 33.5 |
| 4/25/2015 18:00:47 | 47.24 | 41.74 | 623 | 1.78 | 0.29 | 34.1 |
| 4/25/2015 18:00:47 | 47.57 | 42.07 | 620 | 1.80 | 0.29 | 33.9 |
| 4/25/2015 18:00:48 | 47.90 | 42.40 | 617 | 1.77 | 0.30 | 33.7 |
| 4/25/2015 18:00:48 | 48.23 | 42.73 | 607 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 18:00:49 | 48.56 | 43.06 | 618 | 1.77 | 0.30 | 33.8 |
| 4/25/2015 18:00:49 | 48.88 | 43.38 | 599 | 1.79 | 0.30 | 32.7 |
| 4/25/2015 18:01:08 | 49.21 | 43.71 | 14 | 1.79 | 0.90 | 0.8 |
| 4/25/2015 18:01:09 | 49.54 | 44.04 | 200 | 1.77 | 1.33 | 11.0 |
| 4/25/2015 18:01:12 | 49.87 | 44.37 | 124 | 1.73 | 1.16 | 6.8 |
| 4/25/2015 18:01:14 | 50.20 | 44.70 | 206 | 1.74 | 1.10 | 11.3 |
| 4/25/2015 18:01:34 | 50.53 | 45.03 | 0 | 1.76 | 1.09 | 0.0 |
| 4/25/2015 18:01:35 | 50.85 | 45.35 | 84 | 1.72 | 1.12 | 4.6 |
| 4/25/2015 18:01:37 | 51.18 | 45.68 | 123 | 1.72 | 1.10 | 6.7 |
| 4/25/2015 18:01:39 | 51.51 | 46.01 | 207 | 1.76 | 1.09 | 11.3 |
| 4/25/2015 18:02:01 | 51.84 | 46.34 | 99 | 1.78 | 1.06 | 5.4 |
| 4/25/2015 18:02:28 | 52.17 | 46.67 | 38 | 1.77 | 1.14 | 2.1 |
| 4/25/2015 18:02:38 | 52.49 | 46.99 | 36 | 1.79 | 1.13 | 2.0 |
| 4/25/2015 18:02:46 | 52.82 | 47.32 | 58 | 1.78 | 1.11 | 3.2 |
| 4/25/2015 18:02:55 | 53.15 | 47.65 | 41 | 1.79 | 1.18 | 2.2 |
| 4/25/2015 18:03:04 | 53.48 | 47.98 | 36 | 1.80 | 1.20 | 2.0 |

## H361 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:58:37

**End Date:**
4/25/2015 18:04:53

**Operator Note:**
'5.5 Auto Complete'

**Northing:**
366,211.69

**Easting:**
250,721.62

**Tide (feet):**
5.50



## Hole: H362 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:36:15 | 31.50 | 30.30 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 14:36:15 | 31.82 | 30.62 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/25/2015 14:36:15 | 32.15 | 30.95 | 1,046 | 0.33 | 0.31 | 57.2 |
| 4/25/2015 14:36:16 | 32.48 | 31.28 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:36:17 | 32.81 | 31.61 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:36:16 | 33.14 | 31.94 | 1,034 | 0.33 | 0.31 | 56.6 |
| 4/25/2015 14:36:17 | 33.46 | 32.26 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 14:36:18 | 33.79 | 32.59 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 14:36:18 | 34.12 | 32.92 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:36:18 | 34.45 | 33.25 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 14:36:19 | 34.78 | 33.58 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/25/2015 14:36:19 | 35.11 | 33.91 | 1,056 | 0.35 | 0.32 | 57.7 |
| 4/25/2015 14:36:19 | 35.43 | 34.23 | 1,053 | 0.35 | 0.31 | 57.6 |
| 4/25/2015 14:36:20 | 35.76 | 34.56 | 1,053 | 0.35 | 0.31 | 57.6 |
| 4/25/2015 14:36:20 | 36.09 | 34.89 | 1,037 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 14:36:20 | 36.42 | 35.22 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 14:36:21 | 36.75 | 35.55 | 1,043 | 0.31 | 0.32 | 57.1 |
| 4/25/2015 14:36:21 | 37.07 | 35.87 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 14:36:21 | 37.40 | 36.20 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/25/2015 14:36:22 | 37.73 | 36.53 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/25/2015 14:36:22 | 38.06 | 36.86 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/25/2015 14:36:22 | 38.39 | 37.19 | 1,047 | 0.33 | 0.31 | 57.2 |
| 4/25/2015 14:36:23 | 38.71 | 37.51 | 1,047 | 0.33 | 0.31 | 57.2 |
| 4/25/2015 14:36:23 | 39.04 | 37.84 | 1,035 | 0.32 | 0.31 | 56.6 |
| 4/25/2015 14:36:23 | 39.37 | 38.17 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 14:36:24 | 39.70 | 38.50 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 14:36:24 | 40.03 | 38.83 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 14:36:24 | 40.35 | 39.15 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 14:36:24 | 40.68 | 39.48 | 1,053 | 0.32 | 0.32 | 57.6 |
| 4/25/2015 14:36:25 | 41.01 | 39.81 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 14:36:25 | 41.34 | 40.14 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 14:36:25 | 41.67 | 40.47 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 14:36:26 | 41.99 | 40.79 | 1,050 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 14:36:27 | 42.32 | 41.12 | 1,050 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 14:36:27 | 42.65 | 41.45 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/25/2015 14:36:27 | 42.98 | 41.78 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/25/2015 14:36:28 | 43.31 | 42.11 | 1,021 | 0.31 | 0.32 | 55.8 |
| 4/25/2015 14:36:28 | 43.64 | 42.44 | 1,024 | 0.28 | 0.32 | 56.0 |
| 4/25/2015 14:36:28 | 43.96 | 42.76 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/25/2015 14:36:29 | 44.29 | 43.09 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/25/2015 14:36:29 | 44.62 | 43.42 | 1,021 | 0.31 | 0.31 | 55.9 |
| 4/25/2015 14:36:29 | 44.95 | 43.75 | 1,021 | 0.31 | 0.32 | 55.9 |
| 4/25/2015 14:36:30 | 45.28 | 44.08 | 1,021 | 0.31 | 0.32 | 55.9 |
| 4/25/2015 14:36:30 | 45.60 | 44.40 | 1,056 | 0.33 | 0.32 | 57.8 |
| 4/25/2015 14:36:30 | 45.93 | 44.73 | 1,065 | 0.29 | 0.36 | 58.2 |
| 4/25/2015 14:36:39 | 46.26 | 45.06 | 0 | 2.72 | 0.36 | 0.0 |
| 4/25/2015 14:36:48 | 46.59 | 45.39 | 0 | 4.30 | 0.36 | 0.0 |
| 4/25/2015 14:36:49 | 46.92 | 45.72 | 150 | 3.34 | 0.36 | 8.2 |
| 4/25/2015 14:36:53 | 47.24 | 46.04 | 0 | 3.58 | 0.36 | 0.0 |
| 4/25/2015 14:36:53 | 47.57 | 46.37 | 95 | 2.96 | 0.36 | 5.2 |
| 4/25/2015 14:36:54 | 47.90 | 46.70 | 185 | 3.95 | 0.38 | 10.1 |
| 4/25/2015 14:36:59 | 48.23 | 47.03 | 84 | 3.92 | 0.37 | 4.6 |
| 4/25/2015 14:37:11 | 48.56 | 47.36 | 0 | 5.70 | 0.35 | 0.0 |
| 4/25/2015 14:37:12 | 48.88 | 47.68 | 168 | 3.53 | 0.38 | 9.2 |
| 4/25/2015 14:37:13 | 49.21 | 48.01 | 217 | 2.50 | 0.36 | 11.9 |
| 4/25/2015 14:37:20 | 49.54 | 48.34 | 0 | 2.63 | 0.37 | 0.0 |
| 4/25/2015 14:37:21 | 49.87 | 48.67 | 198 | 3.62 | 0.38 | 10.8 |
| 4/25/2015 14:37:42 | 50.20 | 49.00 | 43 | 2.80 | 0.40 | 2.3 |
| 4/25/2015 14:37:48 | 50.53 | 49.33 | 52 | 3.09 | 0.39 | 2.8 |
| 4/25/2015 14:37:58 | 50.85 | 49.65 | 42 | 2.82 | 0.39 | 2.3 |
| 4/25/2015 14:38:05 | 51.18 | 49.98 | 46 | 3.12 | 0.39 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:38:11 | 51.40 | 50.20 | 48 | 3.03 | 0.40 | 2.6 |

## H362 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:34:28

**End Date:**
4/25/2015 14:39:49

**Operator Note:**
'1.2 1.1 b Auto Complete'

**Northing:**
366,279.45

**Easting:**
250,791.46

**Tide (feet):**
1.20



## Hole: H363 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:29:46 | 31.17 | 30.07 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/25/2015 14:29:47 | 31.50 | 30.40 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/25/2015 14:29:47 | 31.82 | 30.72 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 14:29:47 | 32.15 | 31.05 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:29:48 | 32.48 | 31.38 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:29:48 | 32.81 | 31.71 | 1,046 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 14:29:48 | 33.14 | 32.04 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:29:49 | 33.46 | 32.36 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:29:49 | 33.79 | 32.69 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:29:49 | 34.12 | 33.02 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 14:29:50 | 34.45 | 33.35 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/25/2015 14:29:50 | 34.78 | 33.68 | 1,031 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 14:29:50 | 35.11 | 34.01 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 14:29:51 | 35.43 | 34.33 | 1,031 | 0.31 | 0.31 | 56.4 |
| 4/25/2015 14:29:51 | 35.76 | 34.66 | 1,036 | 0.32 | 0.24 | 56.6 |
| 4/25/2015 14:29:52 | 36.09 | 34.99 | 1,023 | 0.31 | 0.32 | 55.9 |
| 4/25/2015 14:29:52 | 36.42 | 35.32 | 1,023 | 0.31 | 0.32 | 55.9 |
| 4/25/2015 14:29:52 | 36.75 | 35.65 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:29:53 | 37.07 | 35.97 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 14:29:53 | 37.40 | 36.30 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/25/2015 14:29:53 | 37.73 | 36.63 | 1,045 | 0.33 | 0.31 | 57.1 |
| 4/25/2015 14:29:54 | 38.06 | 36.96 | 1,045 | 0.33 | 0.31 | 57.1 |
| 4/25/2015 14:29:54 | 38.39 | 37.29 | 1,035 | 0.33 | 0.31 | 56.6 |
| 4/25/2015 14:29:54 | 38.71 | 37.61 | 1,046 | 0.32 | 0.31 | 57.2 |
| 4/25/2015 14:29:55 | 39.04 | 37.94 | 1,046 | 0.32 | 0.31 | 57.2 |
| 4/25/2015 14:29:55 | 39.37 | 38.27 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:29:55 | 39.70 | 38.60 | 1,046 | 0.32 | 0.31 | 57.2 |
| 4/25/2015 14:29:56 | 40.03 | 38.93 | 1,046 | 0.32 | 0.31 | 57.2 |
| 4/25/2015 14:29:56 | 40.35 | 39.25 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:29:56 | 40.68 | 39.58 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 14:29:57 | 41.01 | 39.91 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 14:29:57 | 41.34 | 40.24 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 14:29:57 | 41.67 | 40.57 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 14:29:57 | 41.99 | 40.89 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 14:29:58 | 42.32 | 41.22 | 1,038 | 0.32 | 0.32 | 56.8 |
| 4/25/2015 14:29:58 | 42.65 | 41.55 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:29:59 | 42.98 | 41.88 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 14:29:59 | 43.31 | 42.21 | 1,044 | 0.32 | 0.31 | 57.1 |
| 4/25/2015 14:29:59 | 43.64 | 42.54 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:30:00 | 43.96 | 42.86 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:30:00 | 44.29 | 43.19 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 14:30:00 | 44.62 | 43.52 | 1,044 | 0.33 | 0.31 | 57.1 |
| 4/25/2015 14:30:01 | 44.95 | 43.85 | 1,044 | 0.33 | 0.31 | 57.1 |
| 4/25/2015 14:30:01 | 45.28 | 44.18 | 1,038 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 14:30:02 | 45.60 | 44.50 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 14:30:02 | 45.93 | 44.83 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 14:30:02 | 46.26 | 45.16 | 1,010 | 0.29 | 0.37 | 55.2 |
| 4/25/2015 14:30:10 | 46.59 | 45.49 | 79 | 4.53 | 0.37 | 4.3 |
| 4/25/2015 14:30:15 | 46.92 | 45.82 | 44 | 4.63 | 0.38 | 2.4 |
| 4/25/2015 14:30:21 | 47.24 | 46.14 | 49 | 3.40 | 0.36 | 2.7 |
| 4/25/2015 14:30:23 | 47.57 | 46.47 | 109 | 3.69 | 0.37 | 6.0 |
| 4/25/2015 14:30:24 | 47.90 | 46.80 | 222 | 4.51 | 0.37 | 12.2 |
| 4/25/2015 14:30:31 | 48.23 | 47.13 | 43 | 4.32 | 0.38 | 2.4 |
| 4/25/2015 14:30:37 | 48.56 | 47.46 | 9 | 4.53 | 0.38 | 0.5 |
| 4/25/2015 14:30:38 | 48.88 | 47.78 | 130 | 3.14 | 0.37 | 7.1 |
| 4/25/2015 14:30:42 | 49.21 | 48.11 | 0 | 4.28 | 0.37 | 0.0 |
| 4/25/2015 14:30:45 | 49.54 | 48.44 | 110 | 3.45 | 0.37 | 6.0 |
| 4/25/2015 14:30:47 | 49.87 | 48.77 | 223 | 3.03 | 0.36 | 12.2 |
| 4/25/2015 14:30:55 | 50.20 | 49.10 | 0 | 3.31 | 0.37 | 0.0 |
| 4/25/2015 14:30:56 | 50.53 | 49.43 | 58 | 2.17 | 0.34 | 3.2 |
| 4/25/2015 14:30:57 | 50.85 | 49.75 | 179 | 2.25 | 0.34 | 9.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:30:57 | 51.18 | 50.08 | 179 | 2.25 | 0.34 | 9.8 |
| 4/25/2015 | 14:30:57 | 51.51 | 50.41 | 344 | 2.00 | 0.33 | 18.8 |
| 4/25/2015 | 14:30:58 | 51.84 | 50.74 | 498 | 1.95 | 0.34 | 27.2 |
| 4/25/2015 | 14:30:58 | 52.17 | 51.07 | 658 | 2.03 | 0.34 | 36.0 |
| 4/25/2015 | 14:30:59 | 52.49 | 51.39 | 747 | 2.18 | 0.35 | 40.9 |
| 4/25/2015 | 14:30:59 | 52.82 | 51.72 | 749 | 2.55 | 0.36 | 41.0 |
| 4/25/2015 | 14:32:39 | 53.15 | 52.05 | 21 | 2.38 | 0.35 | 1.1 |
| 4/25/2015 | 14:32:40 | 53.48 | 52.38 | 149 | 2.15 | 0.34 | 8.2 |
| 4/25/2015 | 14:32:43 | 53.81 | 52.71 | 0 | 2.32 | 0.35 | 0.0 |
| 4/25/2015 | 14:32:44 | 54.13 | 53.03 | 220 | 2.31 | 0.36 | 12.0 |
| 4/25/2015 | 14:32:45 | 54.46 | 53.36 | 297 | 5.24 | 0.41 | 16.2 |
| 4/25/2015 | 14:32:54 | 54.79 | 53.69 | 86 | 7.78 | 0.37 | 4.7 |
| 4/25/2015 | 14:32:55 | 55.12 | 54.02 | 254 | 3.69 | 0.35 | 13.9 |
| 4/25/2015 | 14:32:55 | 55.45 | 54.35 | 342 | 4.03 | 0.36 | 18.7 |
| 4/25/2015 | 14:32:57 | 55.77 | 54.67 | 234 | 3.53 | 0.36 | 12.8 |
| 4/25/2015 | 14:32:58 | 56.02 | 54.92 | 145 | 3.52 | 0.38 | 7.9 |

## H363 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:28:15

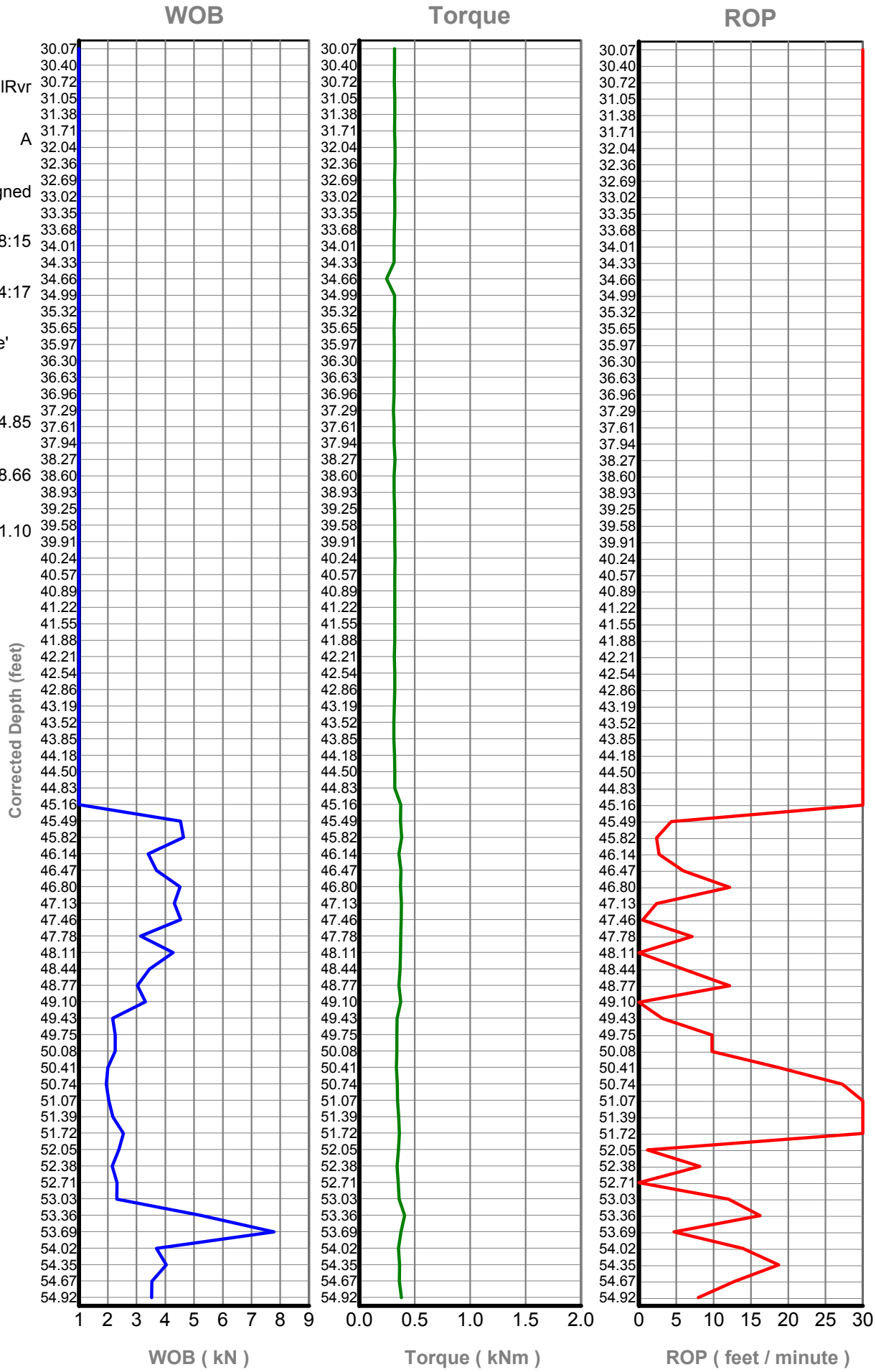
**End Date:**
4/25/2015 14:34:17

**Operator Note:**
'1.1 1.0 b Auto Complete'

**Northing:**
366,314.85

**Easting:**
250,838.66

**Tide (feet):**
1.10



## Hole: H364 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:31:51 | 31.17 | 30.07 | 549 | 1.77 | 0.31 | 30.0 |
| 4/25/2015 14:31:52 | 31.50 | 30.40 | 546 | 1.78 | 0.31 | 29.9 |
| 4/25/2015 14:31:52 | 31.82 | 30.72 | 549 | 1.75 | 0.31 | 30.0 |
| 4/25/2015 14:31:53 | 32.15 | 31.05 | 552 | 1.77 | 0.31 | 30.2 |
| 4/25/2015 14:31:54 | 32.48 | 31.38 | 549 | 1.78 | 0.30 | 30.0 |
| 4/25/2015 14:31:54 | 32.81 | 31.71 | 552 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 14:31:55 | 33.14 | 32.04 | 552 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 14:31:55 | 33.46 | 32.36 | 549 | 1.76 | 0.30 | 30.0 |
| 4/25/2015 14:31:56 | 33.79 | 32.69 | 546 | 1.77 | 0.30 | 29.8 |
| 4/25/2015 14:31:57 | 34.12 | 33.02 | 549 | 1.78 | 0.30 | 30.0 |
| 4/25/2015 14:31:57 | 34.45 | 33.35 | 549 | 1.77 | 0.30 | 30.0 |
| 4/25/2015 14:31:58 | 34.78 | 33.68 | 549 | 1.79 | 0.30 | 30.0 |
| 4/25/2015 14:31:58 | 35.11 | 34.01 | 549 | 1.76 | 0.30 | 30.0 |
| 4/25/2015 14:31:59 | 35.43 | 34.33 | 549 | 1.79 | 0.30 | 30.0 |
| 4/25/2015 14:32:00 | 35.76 | 34.66 | 549 | 1.77 | 0.30 | 30.0 |
| 4/25/2015 14:32:00 | 36.09 | 34.99 | 543 | 1.78 | 0.30 | 29.7 |
| 4/25/2015 14:32:02 | 36.42 | 35.32 | 547 | 1.78 | 0.30 | 29.9 |
| 4/25/2015 14:32:02 | 36.75 | 35.65 | 538 | 1.76 | 0.30 | 29.4 |
| 4/25/2015 14:32:03 | 37.07 | 35.97 | 541 | 1.79 | 0.30 | 29.6 |
| 4/25/2015 14:32:03 | 37.40 | 36.30 | 538 | 1.77 | 0.30 | 29.4 |
| 4/25/2015 14:32:04 | 37.73 | 36.63 | 535 | 1.76 | 0.30 | 29.2 |
| 4/25/2015 14:32:05 | 38.06 | 36.96 | 535 | 1.77 | 0.30 | 29.2 |
| 4/25/2015 14:32:05 | 38.39 | 37.29 | 536 | 1.78 | 0.31 | 29.3 |
| 4/25/2015 14:32:06 | 38.71 | 37.61 | 536 | 1.77 | 0.30 | 29.3 |
| 4/25/2015 14:32:07 | 39.04 | 37.94 | 552 | 1.78 | 0.30 | 30.2 |
| 4/25/2015 14:32:07 | 39.37 | 38.27 | 550 | 1.79 | 0.30 | 30.1 |
| 4/25/2015 14:32:08 | 39.70 | 38.60 | 545 | 1.78 | 0.30 | 29.8 |
| 4/25/2015 14:32:08 | 40.03 | 38.93 | 545 | 1.79 | 0.30 | 29.8 |
| 4/25/2015 14:32:09 | 40.35 | 39.25 | 547 | 1.77 | 0.30 | 29.9 |
| 4/25/2015 14:32:10 | 40.68 | 39.58 | 543 | 1.78 | 0.30 | 29.7 |
| 4/25/2015 14:32:10 | 41.01 | 39.91 | 530 | 1.76 | 0.30 | 29.0 |
| 4/25/2015 14:32:11 | 41.34 | 40.24 | 530 | 1.77 | 0.30 | 29.0 |
| 4/25/2015 14:32:12 | 41.67 | 40.57 | 543 | 1.78 | 0.30 | 29.7 |
| 4/25/2015 14:32:13 | 41.99 | 40.89 | 534 | 1.77 | 0.30 | 29.2 |
| 4/25/2015 14:32:13 | 42.32 | 41.22 | 534 | 1.76 | 0.30 | 29.2 |
| 4/25/2015 14:32:14 | 42.65 | 41.55 | 537 | 1.79 | 0.31 | 29.4 |
| 4/25/2015 14:32:15 | 42.98 | 41.88 | 541 | 1.77 | 0.30 | 29.6 |
| 4/25/2015 14:32:15 | 43.31 | 42.21 | 538 | 1.77 | 0.30 | 29.4 |
| 4/25/2015 14:32:16 | 43.64 | 42.54 | 547 | 1.78 | 0.30 | 29.9 |
| 4/25/2015 14:32:16 | 43.96 | 42.86 | 540 | 1.77 | 0.30 | 29.6 |
| 4/25/2015 14:32:17 | 44.29 | 43.19 | 535 | 1.78 | 0.30 | 29.2 |
| 4/25/2015 14:32:18 | 44.62 | 43.52 | 541 | 1.79 | 0.30 | 29.6 |
| 4/25/2015 14:32:18 | 44.95 | 43.85 | 532 | 1.77 | 0.30 | 29.1 |
| 4/25/2015 14:32:19 | 45.28 | 44.18 | 532 | 1.77 | 0.30 | 29.1 |
| 4/25/2015 14:32:31 | 45.60 | 44.50 | 0 | 1.79 | 1.14 | 0.0 |
| 4/25/2015 14:32:37 | 45.93 | 44.83 | 80 | 1.79 | 1.14 | 4.4 |
| 4/25/2015 14:32:38 | 46.26 | 45.16 | 215 | 1.79 | 1.19 | 11.8 |
| 4/25/2015 14:32:40 | 46.59 | 45.49 | 234 | 1.76 | 1.18 | 12.8 |
| 4/25/2015 14:32:41 | 46.92 | 45.82 | 220 | 1.81 | 1.22 | 12.0 |
| 4/25/2015 14:32:44 | 47.24 | 46.14 | 174 | 1.80 | 1.24 | 9.5 |
| 4/25/2015 14:32:46 | 47.57 | 46.47 | 142 | 1.77 | 1.53 | 7.8 |
| 4/25/2015 14:33:57 | 47.90 | 46.80 | 0 | 1.76 | 1.06 | 0.0 |
| 4/25/2015 14:34:02 | 48.23 | 47.13 | 58 | 1.81 | 1.12 | 3.2 |
| 4/25/2015 14:34:04 | 48.56 | 47.46 | 152 | 1.81 | 0.94 | 8.3 |
| 4/25/2015 14:34:05 | 48.88 | 47.78 | 259 | 1.79 | 0.83 | 14.2 |
| 4/25/2015 14:34:06 | 49.21 | 48.11 | 332 | 1.79 | 0.81 | 18.1 |
| 4/25/2015 14:34:07 | 49.54 | 48.44 | 403 | 1.80 | 0.81 | 22.0 |
| 4/25/2015 14:34:08 | 49.87 | 48.77 | 503 | 1.76 | 0.81 | 27.5 |
| 4/25/2015 14:34:08 | 50.20 | 49.10 | 512 | 1.77 | 0.80 | 28.0 |
| 4/25/2015 14:34:09 | 50.53 | 49.43 | 515 | 1.77 | 0.85 | 28.1 |
| 4/25/2015 14:35:07 | 50.85 | 49.75 | 37 | 1.79 | 1.18 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:35:09 | 51.18 | 50.08 | 171 | 1.81 | 0.84 | 9.4 |
| 4/25/2015 | 14:35:09 | 51.51 | 50.41 | 260 | 1.77 | 0.92 | 14.2 |
| 4/25/2015 | 14:35:29 | 51.84 | 50.74 | 116 | 1.80 | 0.89 | 6.4 |
| 4/25/2015 | 14:35:30 | 52.17 | 51.07 | 187 | 1.74 | 0.90 | 10.2 |
| 4/25/2015 | 14:35:31 | 52.49 | 51.39 | 266 | 1.81 | 0.86 | 14.5 |
| 4/25/2015 | 14:35:32 | 52.82 | 51.72 | 391 | 1.78 | 0.90 | 21.4 |
| 4/25/2015 | 14:35:32 | 53.15 | 52.05 | 397 | 1.77 | 0.90 | 21.7 |
| 4/25/2015 | 14:35:56 | 53.48 | 52.38 | 0 | 1.80 | 0.99 | 0.0 |
| 4/25/2015 | 14:35:57 | 53.81 | 52.71 | 136 | 1.79 | 1.01 | 7.4 |
| 4/25/2015 | 14:35:58 | 54.13 | 53.03 | 275 | 1.77 | 1.13 | 15.0 |
| 4/25/2015 | 14:35:59 | 54.46 | 53.36 | 356 | 1.81 | 0.98 | 19.5 |
| 4/25/2015 | 14:36:00 | 54.79 | 53.69 | 345 | 1.81 | 0.96 | 18.9 |
| 4/25/2015 | 14:36:01 | 55.12 | 54.02 | 356 | 1.76 | 1.20 | 19.5 |
| 4/25/2015 | 14:36:02 | 55.45 | 54.35 | 325 | 1.53 | 1.18 | 17.8 |
| 4/25/2015 | 14:36:04 | 55.77 | 54.67 | 276 | 1.74 | 1.09 | 15.1 |
| 4/25/2015 | 14:36:08 | 56.10 | 55.00 | 0 | 1.80 | 0.91 | 0.0 |
| 4/25/2015 | 14:36:09 | 56.43 | 55.33 | 151 | 1.79 | 1.07 | 8.3 |
| 4/25/2015 | 14:36:10 | 56.71 | 55.61 | 231 | 1.79 | 1.08 | 12.6 |

## H364 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/25/2015 14:29:48

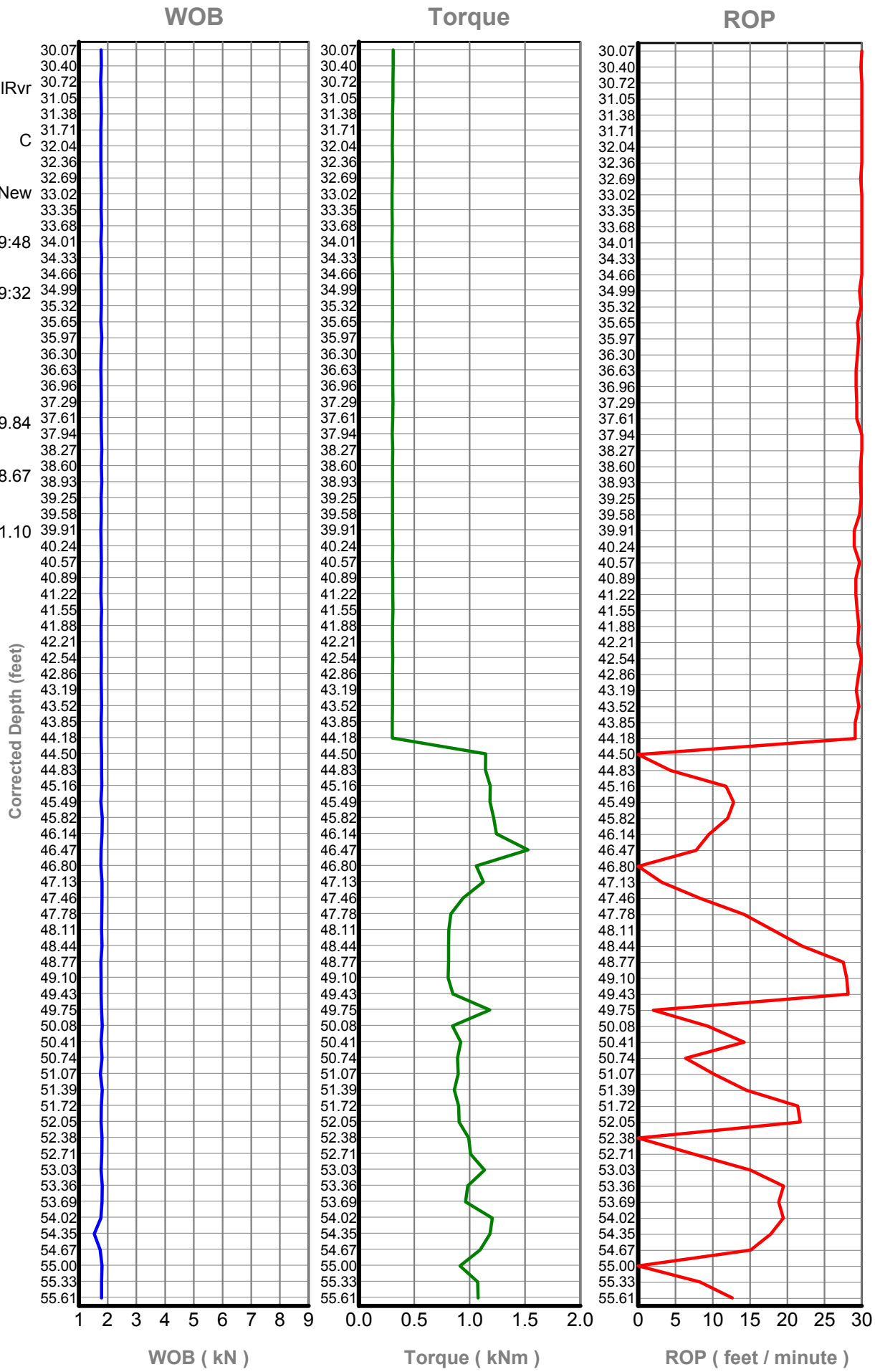
**End Date:**
4/25/2015 14:39:32

**Operator Note:**
'1.1 1,0 C Auto Complete'

**Northing:**
366,359.84

**Easting:**
250,898.67

**Tide (feet):**
1.10



## Hole: H365 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 4:18:46 | 35.43 | 30.23 | 674 | 0.98 | 0.35 | 36.8 |
| 4/25/2015 4:19:04 | 35.76 | 30.56 | 9 | 1.15 | 0.36 | 0.5 |
| 4/25/2015 4:19:04 | 36.09 | 30.89 | 129 | 1.19 | 0.35 | 7.0 |
| 4/25/2015 4:19:05 | 36.42 | 31.22 | 261 | 1.21 | 0.35 | 14.3 |
| 4/25/2015 4:19:05 | 36.75 | 31.55 | 386 | 1.21 | 0.35 | 21.1 |
| 4/25/2015 4:19:06 | 37.07 | 31.87 | 521 | 1.21 | 0.35 | 28.5 |
| 4/25/2015 4:19:06 | 37.40 | 32.20 | 648 | 1.19 | 0.35 | 35.4 |
| 4/25/2015 4:19:07 | 37.73 | 32.53 | 662 | 1.20 | 0.35 | 36.2 |
| 4/25/2015 4:19:07 | 38.06 | 32.86 | 664 | 1.20 | 0.35 | 36.3 |
| 4/25/2015 4:19:08 | 38.39 | 33.19 | 684 | 1.21 | 0.35 | 37.4 |
| 4/25/2015 4:19:09 | 38.71 | 33.51 | 672 | 1.21 | 0.35 | 36.7 |
| 4/25/2015 4:19:09 | 39.04 | 33.84 | 672 | 1.20 | 0.35 | 36.7 |
| 4/25/2015 4:19:10 | 39.37 | 34.17 | 682 | 1.19 | 0.36 | 37.3 |
| 4/25/2015 4:20:47 | 39.70 | 34.50 | 0 | 0.27 | 0.35 | 0.0 |
| 4/25/2015 4:20:47 | 40.03 | 34.83 | 102 | 0.27 | 0.35 | 5.6 |
| 4/25/2015 4:20:48 | 40.35 | 35.15 | 230 | 0.27 | 0.35 | 12.6 |
| 4/25/2015 4:20:48 | 40.68 | 35.48 | 362 | 0.27 | 0.35 | 19.8 |
| 4/25/2015 4:20:49 | 41.01 | 35.81 | 496 | 0.26 | 0.35 | 27.1 |
| 4/25/2015 4:20:49 | 41.34 | 36.14 | 628 | 0.27 | 0.36 | 34.4 |
| 4/25/2015 4:20:50 | 41.67 | 36.47 | 659 | 0.27 | 0.35 | 36.0 |
| 4/25/2015 4:20:50 | 41.99 | 36.79 | 662 | 0.26 | 0.35 | 36.2 |
| 4/25/2015 4:20:51 | 42.32 | 37.12 | 669 | 0.27 | 0.35 | 36.6 |
| 4/25/2015 4:20:51 | 42.65 | 37.45 | 655 | 0.27 | 0.35 | 35.8 |
| 4/25/2015 4:20:52 | 42.98 | 37.78 | 655 | 0.27 | 0.35 | 35.8 |
| 4/25/2015 4:20:53 | 43.31 | 38.11 | 667 | 0.27 | 0.35 | 36.5 |
| 4/25/2015 4:20:53 | 43.64 | 38.44 | 666 | 0.27 | 0.35 | 36.4 |
| 4/25/2015 4:20:54 | 43.96 | 38.76 | 673 | 0.27 | 0.35 | 36.8 |
| 4/25/2015 4:20:54 | 44.29 | 39.09 | 666 | 0.27 | 0.35 | 36.4 |
| 4/25/2015 4:20:55 | 44.62 | 39.42 | 676 | 0.27 | 0.35 | 37.0 |
| 4/25/2015 4:20:55 | 44.95 | 39.75 | 662 | 0.27 | 0.35 | 36.2 |
| 4/25/2015 4:20:56 | 45.28 | 40.08 | 662 | 0.27 | 0.35 | 36.2 |
| 4/25/2015 4:20:56 | 45.60 | 40.40 | 671 | 0.27 | 0.35 | 36.7 |
| 4/25/2015 4:20:57 | 45.93 | 40.73 | 664 | 0.27 | 0.35 | 36.3 |
| 4/25/2015 4:20:57 | 46.26 | 41.06 | 669 | 0.27 | 0.35 | 36.6 |
| 4/25/2015 4:20:58 | 46.59 | 41.39 | 660 | 0.27 | 0.35 | 36.1 |
| 4/25/2015 4:20:58 | 46.92 | 41.72 | 660 | 0.27 | 0.35 | 36.1 |
| 4/25/2015 4:20:59 | 47.24 | 42.04 | 670 | 0.27 | 0.35 | 36.6 |
| 4/25/2015 4:20:59 | 47.57 | 42.37 | 667 | 0.27 | 0.35 | 36.5 |
| 4/25/2015 4:21:00 | 47.90 | 42.70 | 664 | 0.27 | 0.35 | 36.3 |
| 4/25/2015 4:21:00 | 48.23 | 43.03 | 670 | 0.27 | 0.35 | 36.6 |
| 4/25/2015 4:21:01 | 48.56 | 43.36 | 683 | 0.27 | 0.35 | 37.4 |
| 4/25/2015 4:21:02 | 48.88 | 43.68 | 674 | 0.27 | 0.35 | 36.9 |
| 4/25/2015 4:21:02 | 49.21 | 44.01 | 677 | 0.27 | 0.35 | 37.0 |
| 4/25/2015 4:21:03 | 49.54 | 44.34 | 672 | 0.27 | 0.35 | 36.8 |
| 4/25/2015 4:21:04 | 49.87 | 44.67 | 680 | 0.27 | 0.35 | 37.2 |
| 4/25/2015 4:21:04 | 50.20 | 45.00 | 680 | 0.28 | 0.36 | 37.2 |
| 4/25/2015 4:21:05 | 50.53 | 45.33 | 650 | 0.24 | 0.40 | 35.6 |
| 4/25/2015 4:21:56 | 50.85 | 45.65 | 63 | 4.81 | 0.38 | 3.5 |
| 4/25/2015 4:21:57 | 51.18 | 45.98 | 182 | 4.14 | 0.39 | 10.0 |
| 4/25/2015 4:21:59 | 51.51 | 46.31 | 176 | 4.09 | 0.39 | 9.6 |
| 4/25/2015 4:22:01 | 51.84 | 46.64 | 188 | 6.06 | 0.38 | 10.3 |
| 4/25/2015 4:22:02 | 52.17 | 46.97 | 190 | 3.33 | 0.39 | 10.4 |
| 4/25/2015 4:22:07 | 52.49 | 47.29 | 61 | 4.53 | 0.40 | 3.3 |
| 4/25/2015 4:22:08 | 52.82 | 47.62 | 168 | 3.99 | 0.39 | 9.2 |
| 4/25/2015 4:22:12 | 53.15 | 47.95 | 66 | 5.81 | 0.39 | 3.6 |
| 4/25/2015 4:22:13 | 53.48 | 48.28 | 153 | 4.00 | 0.39 | 8.4 |
| 4/25/2015 4:22:17 | 53.81 | 48.61 | 40 | 6.19 | 0.40 | 2.2 |
| 4/25/2015 4:22:19 | 54.13 | 48.93 | 148 | 4.56 | 0.40 | 8.1 |
| 4/25/2015 4:22:44 | 54.46 | 49.26 | 86 | 4.42 | 0.40 | 4.7 |
| 4/25/2015 4:22:45 | 54.79 | 49.59 | 176 | 4.59 | 0.38 | 9.6 |
| 4/25/2015 4:22:46 | 55.12 | 49.92 | 312 | 4.19 | 0.38 | 17.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 4:23:15 | 55.45 | 50.25 | 0 | 3.39 | 0.37 | 0.0 |
| 4/25/2015 | 4:23:16 | 55.77 | 50.57 | 114 | 5.71 | 0.39 | 6.2 |
| 4/25/2015 | 4:23:19 | 56.10 | 50.90 | 195 | 5.36 | 0.39 | 10.7 |
| 4/25/2015 | 4:23:20 | 56.43 | 51.23 | 189 | 4.49 | 0.39 | 10.3 |
| 4/25/2015 | 4:23:21 | 56.76 | 51.56 | 254 | 3.89 | 0.39 | 13.9 |
| 4/25/2015 | 4:23:23 | 57.09 | 51.89 | 270 | 4.32 | 0.38 | 14.7 |
| 4/25/2015 | 4:23:33 | 57.41 | 52.21 | 41 | 4.87 | 0.40 | 2.2 |
| 4/25/2015 | 4:24:22 | 57.74 | 52.54 | 94 | 4.22 | 0.39 | 5.1 |
| 4/25/2015 | 4:24:24 | 58.07 | 52.87 | 174 | 4.78 | 0.40 | 9.5 |
| 4/25/2015 | 4:24:26 | 58.40 | 53.20 | 177 | 4.62 | 0.38 | 9.7 |
| 4/25/2015 | 4:24:28 | 58.73 | 53.53 | 208 | 4.21 | 0.39 | 11.4 |
| 4/25/2015 | 4:24:29 | 59.06 | 53.86 | 210 | 4.66 | 0.39 | 11.5 |
| 4/25/2015 | 4:24:30 | 59.38 | 54.18 | 211 | 4.47 | 0.38 | 11.6 |
| 4/25/2015 | 4:24:32 | 59.71 | 54.51 | 245 | 3.56 | 0.38 | 13.4 |
| 4/25/2015 | 4:24:54 | 60.04 | 54.84 | 0 | 2.93 | 0.37 | 0.0 |
| 4/25/2015 | 4:24:55 | 60.28 | 55.08 | 36 | 3.01 | 0.38 | 2.0 |

## H365 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 4:14:31

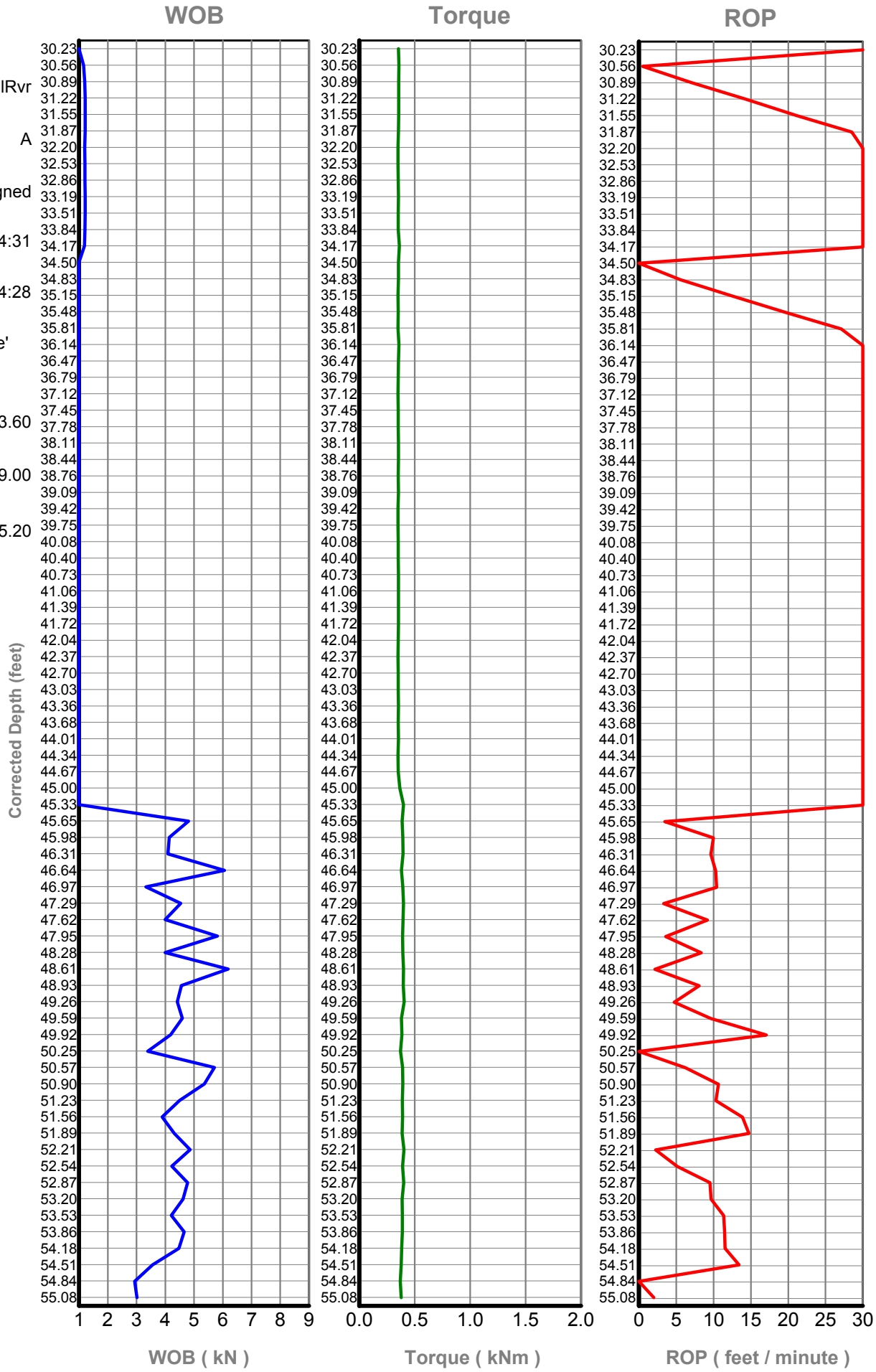
**End Date:**
4/25/2015 4:34:28

**Operator Note:**
'5.2 5.1 b Auto Complete'

**Northing:**
366,413.60

**Easting:**
250,959.00

**Tide (feet):**
5.20



## Hole: H366 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 4:38:17 | 35.76 | 30.16 | 706 | 1.17 | 0.34 | 38.6 |
| 4/25/2015 4:38:25 | 36.09 | 30.49 | 12 | 1.13 | 0.35 | 0.6 |
| 4/25/2015 4:38:26 | 36.42 | 30.82 | 142 | 1.13 | 0.35 | 7.8 |
| 4/25/2015 4:38:26 | 36.75 | 31.15 | 142 | 0.22 | 0.34 | 7.8 |
| 4/25/2015 4:38:27 | 37.07 | 31.47 | 310 | 0.23 | 0.34 | 17.0 |
| 4/25/2015 4:38:27 | 37.40 | 31.80 | 470 | 0.22 | 0.34 | 25.7 |
| 4/25/2015 4:38:28 | 37.73 | 32.13 | 470 | 0.22 | 0.34 | 25.7 |
| 4/25/2015 4:38:28 | 38.06 | 32.46 | 638 | 0.23 | 0.34 | 34.9 |
| 4/25/2015 4:38:28 | 38.39 | 32.79 | 789 | 0.23 | 0.34 | 43.1 |
| 4/25/2015 4:38:29 | 38.71 | 33.11 | 823 | 0.23 | 0.34 | 45.0 |
| 4/25/2015 4:38:29 | 39.04 | 33.44 | 811 | 0.23 | 0.33 | 44.3 |
| 4/25/2015 4:38:30 | 39.37 | 33.77 | 801 | 0.22 | 0.34 | 43.8 |
| 4/25/2015 4:38:30 | 39.70 | 34.10 | 801 | 0.22 | 0.34 | 43.8 |
| 4/25/2015 4:38:30 | 40.03 | 34.43 | 801 | 0.23 | 0.33 | 43.8 |
| 4/25/2015 4:38:31 | 40.35 | 34.75 | 812 | 0.23 | 0.34 | 44.4 |
| 4/25/2015 4:38:31 | 40.68 | 35.08 | 815 | 0.23 | 0.34 | 44.6 |
| 4/25/2015 4:38:32 | 41.01 | 35.41 | 816 | 0.23 | 0.34 | 44.6 |
| 4/25/2015 4:38:32 | 41.34 | 35.74 | 829 | 0.23 | 0.33 | 45.3 |
| 4/25/2015 4:38:33 | 41.67 | 36.07 | 829 | 0.23 | 0.33 | 45.3 |
| 4/25/2015 4:38:33 | 41.99 | 36.39 | 842 | 0.23 | 0.33 | 46.1 |
| 4/25/2015 4:38:33 | 42.32 | 36.72 | 829 | 0.23 | 0.33 | 45.4 |
| 4/25/2015 4:38:34 | 42.65 | 37.05 | 832 | 0.23 | 0.34 | 45.5 |
| 4/25/2015 4:38:35 | 42.98 | 37.38 | 835 | 0.23 | 0.34 | 45.6 |
| 4/25/2015 4:38:35 | 43.31 | 37.71 | 829 | 0.23 | 0.34 | 45.4 |
| 4/25/2015 4:38:36 | 43.64 | 38.04 | 829 | 0.23 | 0.34 | 45.4 |
| 4/25/2015 4:38:36 | 43.96 | 38.36 | 828 | 0.23 | 0.34 | 45.3 |
| 4/25/2015 4:38:36 | 44.29 | 38.69 | 832 | 0.23 | 0.33 | 45.5 |
| 4/25/2015 4:38:37 | 44.62 | 39.02 | 827 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 4:38:37 | 44.95 | 39.35 | 827 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 4:38:38 | 45.28 | 39.68 | 827 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 4:38:38 | 45.60 | 40.00 | 830 | 0.23 | 0.33 | 45.4 |
| 4/25/2015 4:38:38 | 45.93 | 40.33 | 832 | 0.23 | 0.34 | 45.5 |
| 4/25/2015 4:38:39 | 46.26 | 40.66 | 830 | 0.23 | 0.34 | 45.4 |
| 4/25/2015 4:38:39 | 46.59 | 40.99 | 827 | 0.24 | 0.34 | 45.2 |
| 4/25/2015 4:38:40 | 46.92 | 41.32 | 822 | 0.23 | 0.34 | 44.9 |
| 4/25/2015 4:38:40 | 47.24 | 41.64 | 822 | 0.23 | 0.34 | 44.9 |
| 4/25/2015 4:38:40 | 47.57 | 41.97 | 827 | 0.23 | 0.33 | 45.2 |
| 4/25/2015 4:38:41 | 47.90 | 42.30 | 824 | 0.23 | 0.34 | 45.1 |
| 4/25/2015 4:38:41 | 48.23 | 42.63 | 827 | 0.23 | 0.34 | 45.2 |
| 4/25/2015 4:38:42 | 48.56 | 42.96 | 820 | 0.23 | 0.33 | 44.9 |
| 4/25/2015 4:38:42 | 48.88 | 43.28 | 829 | 0.23 | 0.33 | 45.3 |
| 4/25/2015 4:38:43 | 49.21 | 43.61 | 829 | 0.23 | 0.33 | 45.3 |
| 4/25/2015 4:38:43 | 49.54 | 43.94 | 834 | 0.23 | 0.34 | 45.6 |
| 4/25/2015 4:38:43 | 49.87 | 44.27 | 834 | 0.23 | 0.33 | 45.6 |
| 4/25/2015 4:38:44 | 50.20 | 44.60 | 829 | 0.24 | 0.33 | 45.3 |
| 4/25/2015 4:38:45 | 50.53 | 44.93 | 849 | 0.22 | 0.35 | 46.4 |
| 4/25/2015 4:38:45 | 50.85 | 45.25 | 822 | 0.20 | 0.38 | 45.0 |
| 4/25/2015 4:39:28 | 51.18 | 45.58 | 6 | 3.98 | 0.37 | 0.3 |
| 4/25/2015 4:39:31 | 51.51 | 45.91 | 69 | 3.69 | 0.38 | 3.8 |
| 4/25/2015 4:39:34 | 51.84 | 46.24 | 130 | 4.79 | 0.38 | 7.1 |
| 4/25/2015 4:39:36 | 52.17 | 46.57 | 157 | 5.10 | 0.38 | 8.6 |
| 4/25/2015 4:40:09 | 52.49 | 46.89 | 34 | 7.14 | 0.39 | 1.9 |
| 4/25/2015 4:40:13 | 52.82 | 47.22 | 0 | 5.33 | 0.38 | 0.0 |
| 4/25/2015 4:40:15 | 53.15 | 47.55 | 153 | 4.38 | 0.37 | 8.4 |
| 4/25/2015 4:40:15 | 53.48 | 47.88 | 153 | 3.24 | 0.37 | 8.4 |
| 4/25/2015 4:40:33 | 53.81 | 48.21 | 20 | 5.35 | 0.41 | 1.1 |
| 4/25/2015 4:40:35 | 54.13 | 48.53 | 173 | 5.61 | 0.38 | 9.5 |
| 4/25/2015 4:41:29 | 54.46 | 48.86 | 46 | 4.03 | 0.38 | 2.5 |
| 4/25/2015 4:41:30 | 54.79 | 49.19 | 133 | 3.87 | 0.38 | 7.3 |
| 4/25/2015 4:41:32 | 55.12 | 49.52 | 264 | 4.32 | 0.36 | 14.4 |
| 4/25/2015 4:41:33 | 55.45 | 49.85 | 338 | 3.49 | 0.37 | 18.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 4:41:34 | 55.77 | 50.17 | 367 | 4.17 | 0.38 | 20.1 |
| 4/25/2015 | 4:41:35 | 56.10 | 50.50 | 353 | 3.16 | 0.37 | 19.3 |
| 4/25/2015 | 4:41:36 | 56.43 | 50.83 | 326 | 4.13 | 0.38 | 17.9 |
| 4/25/2015 | 4:41:57 | 56.76 | 51.16 | 32 | 3.72 | 0.40 | 1.8 |
| 4/25/2015 | 4:42:03 | 57.09 | 51.49 | 64 | 5.03 | 0.40 | 3.5 |
| 4/25/2015 | 4:42:29 | 57.41 | 51.81 | 20 | 3.39 | 0.40 | 1.1 |
| 4/25/2015 | 4:42:37 | 57.74 | 52.14 | 49 | 3.20 | 0.40 | 2.7 |
| 4/25/2015 | 4:42:45 | 58.07 | 52.47 | 41 | 3.04 | 0.40 | 2.2 |
| 4/25/2015 | 4:42:53 | 58.40 | 52.80 | 45 | 3.10 | 0.40 | 2.5 |

## H366 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 4:34:34

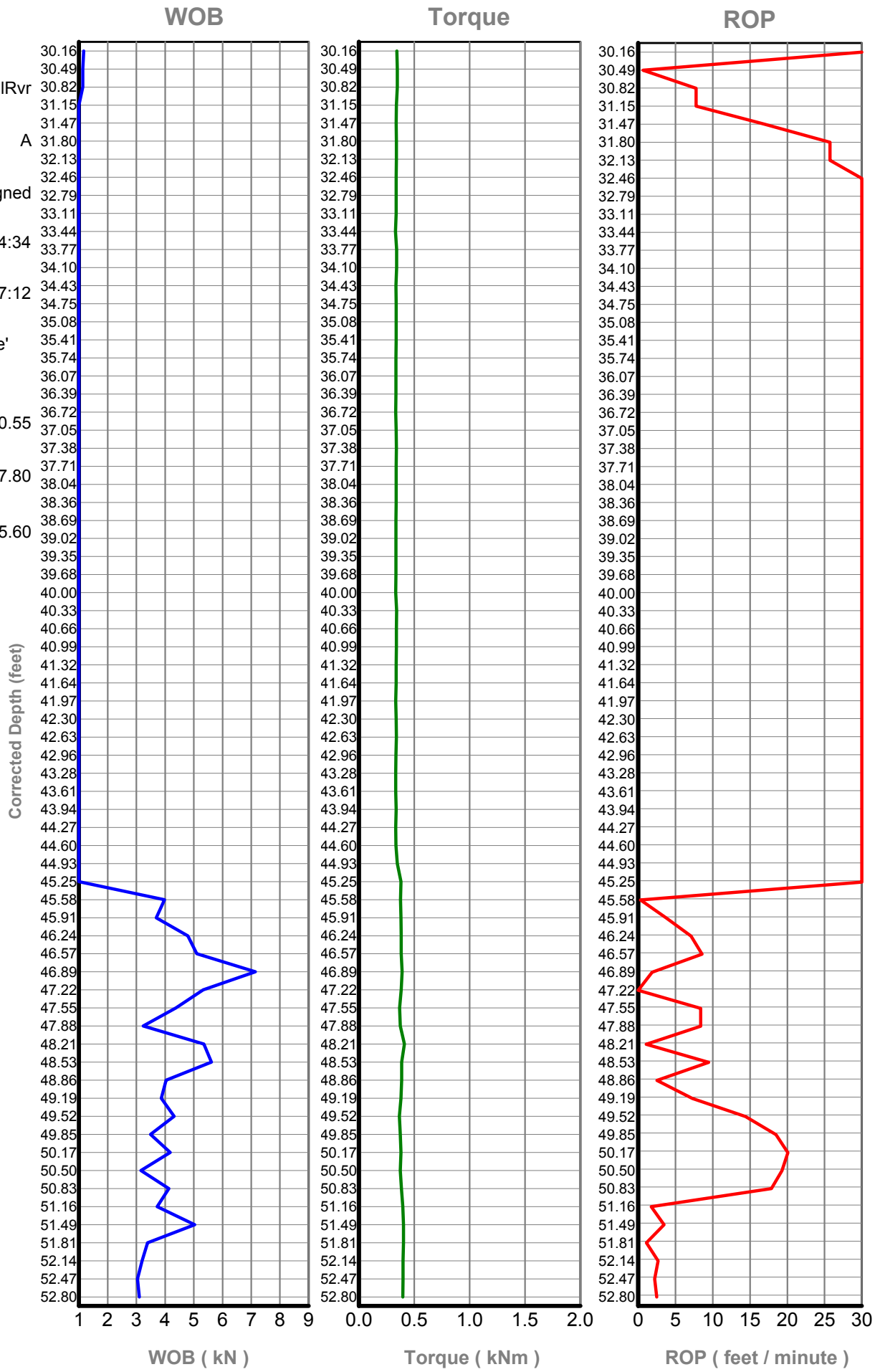
**End Date:**
4/25/2015 4:47:12

**Operator Note:**
'5.6 5.4 b Auto Complete'

**Northing:**
366,450.55

**Easting:**
251,007.80

**Tide (feet):**
5.60



## Hole: H367 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 4:24:31 | 35.43 | 30.03 | 610 | 1.97 | 0.17 | 33.3 |
| 4/25/2015 4:24:31 | 35.76 | 30.36 | 617 | 1.97 | 0.17 | 33.7 |
| 4/25/2015 4:24:32 | 36.09 | 30.69 | 620 | 1.97 | 0.17 | 33.9 |
| 4/25/2015 4:24:33 | 36.42 | 31.02 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:33 | 36.75 | 31.35 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:34 | 37.07 | 31.67 | 616 | 1.97 | 0.17 | 33.7 |
| 4/25/2015 4:24:35 | 37.40 | 32.00 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:35 | 37.73 | 32.33 | 605 | 1.96 | 0.17 | 33.1 |
| 4/25/2015 4:24:36 | 38.06 | 32.66 | 605 | 1.98 | 0.17 | 33.1 |
| 4/25/2015 4:24:36 | 38.39 | 32.99 | 609 | 2.00 | 0.17 | 33.3 |
| 4/25/2015 4:24:37 | 38.71 | 33.31 | 610 | 1.98 | 0.17 | 33.3 |
| 4/25/2015 4:24:37 | 39.04 | 33.64 | 606 | 1.96 | 0.17 | 33.2 |
| 4/25/2015 4:24:38 | 39.37 | 33.97 | 620 | 1.98 | 0.17 | 33.9 |
| 4/25/2015 4:24:39 | 39.70 | 34.30 | 613 | 1.97 | 0.17 | 33.5 |
| 4/25/2015 4:24:39 | 40.03 | 34.63 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:40 | 40.35 | 34.95 | 616 | 1.99 | 0.17 | 33.7 |
| 4/25/2015 4:24:40 | 40.68 | 35.28 | 613 | 1.99 | 0.17 | 33.5 |
| 4/25/2015 4:24:41 | 41.01 | 35.61 | 609 | 1.97 | 0.17 | 33.3 |
| 4/25/2015 4:24:41 | 41.34 | 35.94 | 613 | 1.96 | 0.17 | 33.5 |
| 4/25/2015 4:24:42 | 41.67 | 36.27 | 616 | 1.98 | 0.17 | 33.7 |
| 4/25/2015 4:24:43 | 41.99 | 36.59 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:43 | 42.32 | 36.92 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:44 | 42.65 | 37.25 | 613 | 1.98 | 0.17 | 33.5 |
| 4/25/2015 4:24:45 | 42.98 | 37.58 | 610 | 1.99 | 0.17 | 33.4 |
| 4/25/2015 4:24:45 | 43.31 | 37.91 | 610 | 1.98 | 0.17 | 33.4 |
| 4/25/2015 4:24:46 | 43.64 | 38.24 | 610 | 1.99 | 0.17 | 33.4 |
| 4/25/2015 4:24:46 | 43.96 | 38.56 | 607 | 1.95 | 0.17 | 33.2 |
| 4/25/2015 4:24:47 | 44.29 | 38.89 | 607 | 1.98 | 0.17 | 33.2 |
| 4/25/2015 4:24:48 | 44.62 | 39.22 | 606 | 1.97 | 0.17 | 33.2 |
| 4/25/2015 4:24:48 | 44.95 | 39.55 | 610 | 1.96 | 0.17 | 33.4 |
| 4/25/2015 4:24:49 | 45.28 | 39.88 | 610 | 1.97 | 0.17 | 33.4 |
| 4/25/2015 4:24:49 | 45.60 | 40.20 | 610 | 1.95 | 0.17 | 33.4 |
| 4/25/2015 4:24:50 | 45.93 | 40.53 | 610 | 2.00 | 0.17 | 33.4 |
| 4/25/2015 4:24:50 | 46.26 | 40.86 | 607 | 1.98 | 0.17 | 33.2 |
| 4/25/2015 4:24:51 | 46.59 | 41.19 | 607 | 1.98 | 0.17 | 33.2 |
| 4/25/2015 4:24:51 | 46.92 | 41.52 | 607 | 1.97 | 0.17 | 33.2 |
| 4/25/2015 4:24:52 | 47.24 | 41.84 | 603 | 1.95 | 0.17 | 33.0 |
| 4/25/2015 4:24:53 | 47.57 | 42.17 | 610 | 1.96 | 0.17 | 33.4 |
| 4/25/2015 4:24:53 | 47.90 | 42.50 | 603 | 1.95 | 0.17 | 33.0 |
| 4/25/2015 4:24:54 | 48.23 | 42.83 | 611 | 1.97 | 0.15 | 33.4 |
| 4/25/2015 4:24:54 | 48.56 | 43.16 | 602 | 1.99 | 0.17 | 32.9 |
| 4/25/2015 4:24:55 | 48.88 | 43.48 | 602 | 1.95 | 0.17 | 32.9 |
| 4/25/2015 4:24:56 | 49.21 | 43.81 | 610 | 1.98 | 0.17 | 33.4 |
| 4/25/2015 4:24:56 | 49.54 | 44.14 | 599 | 1.99 | 0.17 | 32.8 |
| 4/25/2015 4:24:57 | 49.87 | 44.47 | 603 | 1.99 | 0.17 | 32.9 |
| 4/25/2015 4:24:58 | 50.20 | 44.80 | 615 | 2.00 | 0.17 | 33.6 |
| 4/25/2015 4:24:58 | 50.53 | 45.13 | 601 | 1.98 | 0.17 | 32.9 |
| 4/25/2015 4:25:35 | 50.85 | 45.45 | 3 | 1.96 | 1.14 | 0.2 |
| 4/25/2015 4:25:37 | 51.18 | 45.78 | 117 | 1.95 | 1.32 | 6.4 |
| 4/25/2015 4:25:46 | 51.51 | 46.11 | 54 | 1.96 | 1.19 | 3.0 |
| 4/25/2015 4:25:55 | 51.84 | 46.44 | 111 | 1.98 | 1.14 | 6.1 |
| 4/25/2015 4:25:56 | 52.17 | 46.77 | 220 | 1.98 | 1.24 | 12.0 |
| 4/25/2015 4:25:58 | 52.49 | 47.09 | 276 | 2.02 | 1.14 | 15.1 |
| 4/25/2015 4:25:59 | 52.82 | 47.42 | 283 | 1.99 | 1.20 | 15.5 |
| 4/25/2015 4:26:00 | 53.15 | 47.75 | 303 | 1.99 | 1.03 | 16.6 |
| 4/25/2015 4:26:00 | 53.48 | 48.08 | 336 | 1.96 | 1.01 | 18.4 |
| 4/25/2015 4:26:15 | 53.81 | 48.41 | 83 | 1.97 | 1.11 | 4.5 |
| 4/25/2015 4:26:15 | 54.13 | 48.73 | 171 | 1.99 | 1.02 | 9.4 |
| 4/25/2015 4:26:32 | 54.46 | 49.06 | 6 | 1.98 | 1.18 | 0.3 |
| 4/25/2015 4:26:39 | 54.79 | 49.39 | 69 | 2.01 | 1.20 | 3.8 |
| 4/25/2015 4:26:50 | 55.12 | 49.72 | 29 | 1.99 | 1.15 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 4:27:03 | 55.45 | 50.05 | 29 | 2.01 | 1.24 | 1.6 |
| 4/25/2015 | 4:27:14 | 55.77 | 50.37 | 32 | 1.96 | 1.15 | 1.7 |

## H367 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 4:22:29

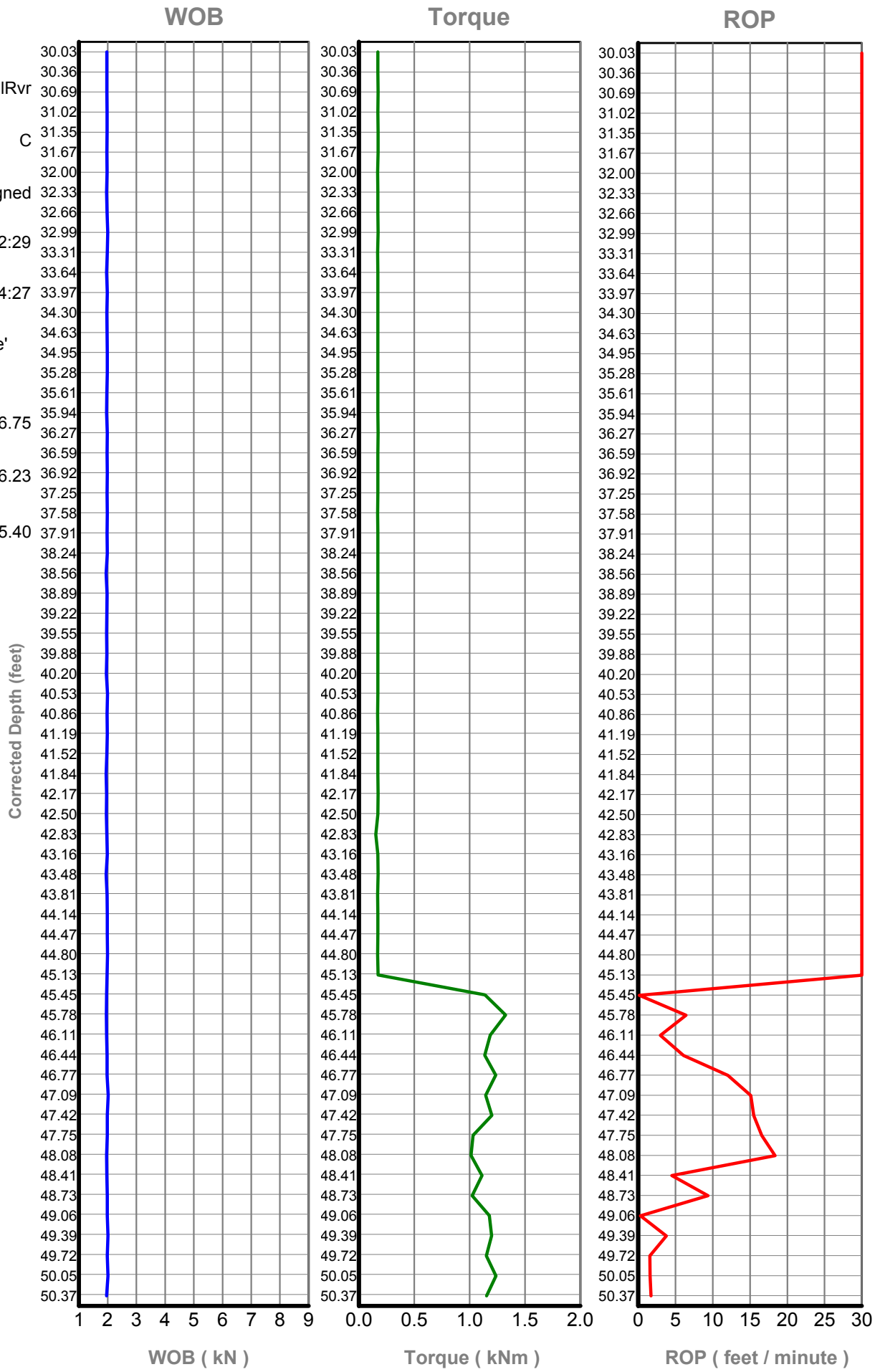
**End Date:**
4/25/2015 4:34:27

**Operator Note:**
'5.4 5.2 c Auto Complete'

**Northing:**
366,496.75

**Easting:**
251,066.23

**Tide (feet):**
5.40



## Hole: H368 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:50:17 | 30.51 | 30.21 | 240 | 0.25 | 0.34 | 13.1 |
| 4/25/2015 0:50:17 | 30.84 | 30.54 | 240 | 0.25 | 0.34 | 13.1 |
| 4/25/2015 0:50:17 | 31.17 | 30.87 | 399 | 0.25 | 0.34 | 21.8 |
| 4/25/2015 0:50:18 | 31.50 | 31.20 | 556 | 0.24 | 0.33 | 30.4 |
| 4/25/2015 0:50:18 | 31.82 | 31.52 | 716 | 0.24 | 0.33 | 39.1 |
| 4/25/2015 0:50:19 | 32.15 | 31.85 | 792 | 0.24 | 0.33 | 43.3 |
| 4/25/2015 0:50:19 | 32.48 | 32.18 | 799 | 0.24 | 0.33 | 43.7 |
| 4/25/2015 0:50:20 | 32.81 | 32.51 | 799 | 0.24 | 0.33 | 43.7 |
| 4/25/2015 0:50:20 | 33.14 | 32.84 | 805 | 0.24 | 0.34 | 44.0 |
| 4/25/2015 0:50:20 | 33.46 | 33.16 | 818 | 0.24 | 0.33 | 44.8 |
| 4/25/2015 0:50:21 | 33.79 | 33.49 | 818 | 0.24 | 0.33 | 44.8 |
| 4/25/2015 0:50:21 | 34.12 | 33.82 | 806 | 0.24 | 0.33 | 44.1 |
| 4/25/2015 0:50:22 | 34.45 | 34.15 | 824 | 0.24 | 0.34 | 45.1 |
| 4/25/2015 0:50:22 | 34.78 | 34.48 | 824 | 0.24 | 0.34 | 45.1 |
| 4/25/2015 0:50:22 | 35.11 | 34.81 | 822 | 0.24 | 0.33 | 44.9 |
| 4/25/2015 0:50:23 | 35.43 | 35.13 | 813 | 0.24 | 0.34 | 44.5 |
| 4/25/2015 0:50:23 | 35.76 | 35.46 | 807 | 0.24 | 0.33 | 44.1 |
| 4/25/2015 0:50:24 | 36.09 | 35.79 | 812 | 0.25 | 0.34 | 44.4 |
| 4/25/2015 0:50:24 | 36.42 | 36.12 | 807 | 0.24 | 0.33 | 44.1 |
| 4/25/2015 0:50:25 | 36.75 | 36.45 | 804 | 0.24 | 0.33 | 43.9 |
| 4/25/2015 0:50:25 | 37.07 | 36.77 | 804 | 0.24 | 0.33 | 43.9 |
| 4/25/2015 0:50:26 | 37.40 | 37.10 | 810 | 0.25 | 0.33 | 44.3 |
| 4/25/2015 0:50:26 | 37.73 | 37.43 | 811 | 0.25 | 0.33 | 44.3 |
| 4/25/2015 0:50:27 | 38.06 | 37.76 | 821 | 0.24 | 0.33 | 44.9 |
| 4/25/2015 0:50:27 | 38.39 | 38.09 | 821 | 0.24 | 0.33 | 44.9 |
| 4/25/2015 0:50:28 | 38.71 | 38.41 | 827 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 0:50:28 | 39.04 | 38.74 | 827 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 0:50:28 | 39.37 | 39.07 | 825 | 0.24 | 0.33 | 45.1 |
| 4/25/2015 0:50:29 | 39.70 | 39.40 | 841 | 0.24 | 0.33 | 46.0 |
| 4/25/2015 0:50:29 | 40.03 | 39.73 | 835 | 0.24 | 0.33 | 45.7 |
| 4/25/2015 0:50:30 | 40.35 | 40.05 | 832 | 0.24 | 0.33 | 45.5 |
| 4/25/2015 0:50:30 | 40.68 | 40.38 | 827 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 0:50:31 | 41.01 | 40.71 | 827 | 0.24 | 0.33 | 45.2 |
| 4/25/2015 0:50:31 | 41.34 | 41.04 | 830 | 0.24 | 0.33 | 45.4 |
| 4/25/2015 0:50:31 | 41.67 | 41.37 | 830 | 0.24 | 0.33 | 45.4 |
| 4/25/2015 0:50:32 | 41.99 | 41.69 | 829 | 0.25 | 0.33 | 45.4 |
| 4/25/2015 0:50:32 | 42.32 | 42.02 | 818 | 0.24 | 0.33 | 44.7 |
| 4/25/2015 0:50:33 | 42.65 | 42.35 | 818 | 0.24 | 0.33 | 44.7 |
| 4/25/2015 0:50:33 | 42.98 | 42.68 | 832 | 0.24 | 0.33 | 45.5 |
| 4/25/2015 0:50:33 | 43.31 | 43.01 | 834 | 0.25 | 0.33 | 45.6 |
| 4/25/2015 0:50:34 | 43.64 | 43.34 | 837 | 0.24 | 0.33 | 45.8 |
| 4/25/2015 0:50:34 | 43.96 | 43.66 | 829 | 0.24 | 0.33 | 45.3 |
| 4/25/2015 0:50:35 | 44.29 | 43.99 | 846 | 0.24 | 0.33 | 46.3 |
| 4/25/2015 0:50:35 | 44.62 | 44.32 | 846 | 0.24 | 0.33 | 46.3 |
| 4/25/2015 0:50:36 | 44.95 | 44.65 | 846 | 0.24 | 0.33 | 46.3 |
| 4/25/2015 0:50:36 | 45.28 | 44.98 | 832 | 0.24 | 0.33 | 45.5 |
| 4/25/2015 0:50:37 | 45.60 | 45.30 | 825 | 0.24 | 0.32 | 45.1 |
| 4/25/2015 0:50:37 | 45.93 | 45.63 | 816 | 0.24 | 0.34 | 44.6 |
| 4/25/2015 0:50:38 | 46.26 | 45.96 | 806 | 0.22 | 0.37 | 44.1 |
| 4/25/2015 0:51:36 | 46.59 | 46.29 | 73 | 4.51 | 0.38 | 4.0 |
| 4/25/2015 0:51:37 | 46.92 | 46.62 | 209 | 3.24 | 0.37 | 11.4 |
| 4/25/2015 0:51:38 | 47.24 | 46.94 | 303 | 6.43 | 0.37 | 16.6 |
| 4/25/2015 0:51:42 | 47.57 | 47.27 | 58 | 4.65 | 0.41 | 3.2 |
| 4/25/2015 0:51:52 | 47.90 | 47.60 | 3 | 3.54 | 0.38 | 0.2 |
| 4/25/2015 0:51:53 | 48.23 | 47.93 | 145 | 3.38 | 0.38 | 7.9 |
| 4/25/2015 0:51:55 | 48.56 | 48.26 | 318 | 3.59 | 0.38 | 17.4 |
| 4/25/2015 0:51:56 | 48.88 | 48.58 | 273 | 4.19 | 0.40 | 14.9 |
| 4/25/2015 0:51:58 | 49.21 | 48.91 | 189 | 4.68 | 0.40 | 10.3 |
| 4/25/2015 0:52:00 | 49.54 | 49.24 | 217 | 7.05 | 0.42 | 11.9 |
| 4/25/2015 0:52:02 | 49.87 | 49.57 | 156 | 5.97 | 0.41 | 8.5 |
| 4/25/2015 0:52:05 | 50.20 | 49.90 | 130 | 6.26 | 0.39 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 0:52:14 | 50.53 | 50.23 | 50 | 3.26 | 0.40 | 2.7 |
| 4/25/2015 | 0:52:23 | 50.85 | 50.55 | 38 | 3.52 | 0.40 | 2.1 |
| 4/25/2015 | 0:52:32 | 51.18 | 50.88 | 40 | 3.68 | 0.40 | 2.2 |
| 4/25/2015 | 0:52:40 | 51.51 | 51.21 | 43 | 3.31 | 0.40 | 2.4 |
| 4/25/2015 | 0:52:48 | 51.83 | 51.53 | 41 | 4.17 | 0.40 | 2.2 |

## H368 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:46:09

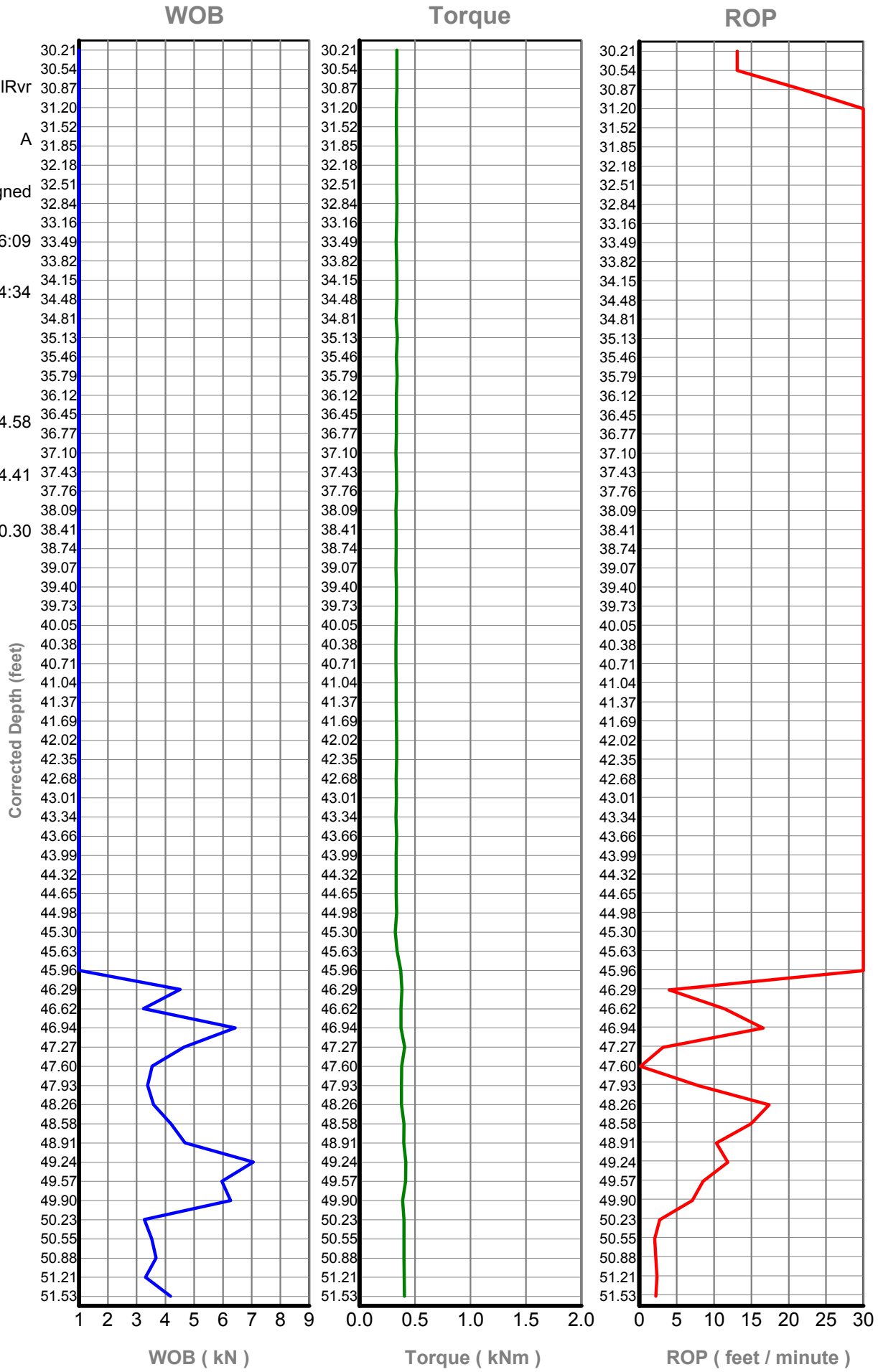
**End Date:**
4/25/2015 0:54:34

**Operator Note:**
'0.3 .3 b Auto Complete'

**Northing:**
366,544.58

**Easting:**
251,134.41

**Tide (feet):**
0.30



## Hole: H369 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:59:26 | 30.51 | 30.21 | 896 | 0.92 | 0.32 | 49.0 |
| 4/25/2015 0:59:26 | 30.84 | 30.54 | 899 | 0.92 | 0.32 | 49.2 |
| 4/25/2015 0:59:27 | 31.17 | 30.87 | 899 | 0.92 | 0.32 | 49.2 |
| 4/25/2015 0:59:27 | 31.50 | 31.20 | 899 | 0.92 | 0.32 | 49.2 |
| 4/25/2015 0:59:28 | 31.82 | 31.52 | 899 | 0.92 | 0.32 | 49.2 |
| 4/25/2015 0:59:28 | 32.15 | 31.85 | 902 | 0.92 | 0.32 | 49.3 |
| 4/25/2015 0:59:29 | 32.48 | 32.18 | 902 | 0.92 | 0.32 | 49.3 |
| 4/25/2015 0:59:29 | 32.81 | 32.51 | 908 | 0.92 | 0.32 | 49.6 |
| 4/25/2015 0:59:29 | 33.14 | 32.84 | 911 | 0.93 | 0.32 | 49.8 |
| 4/25/2015 0:59:30 | 33.46 | 33.16 | 911 | 0.92 | 0.32 | 49.8 |
| 4/25/2015 0:59:30 | 33.79 | 33.49 | 911 | 0.92 | 0.32 | 49.8 |
| 4/25/2015 0:59:30 | 34.12 | 33.82 | 908 | 0.92 | 0.32 | 49.6 |
| 4/25/2015 0:59:31 | 34.45 | 34.15 | 913 | 0.91 | 0.32 | 50.0 |
| 4/25/2015 0:59:31 | 34.78 | 34.48 | 903 | 0.22 | 0.32 | 49.4 |
| 4/25/2015 0:59:32 | 35.11 | 34.81 | 903 | 0.22 | 0.32 | 49.4 |
| 4/25/2015 0:59:32 | 35.43 | 35.13 | 902 | 0.25 | 0.32 | 49.3 |
| 4/25/2015 0:59:32 | 35.76 | 35.46 | 894 | 0.22 | 0.33 | 48.9 |
| 4/25/2015 0:59:33 | 36.09 | 35.79 | 894 | 0.22 | 0.33 | 48.9 |
| 4/25/2015 0:59:33 | 36.42 | 36.12 | 888 | 0.22 | 0.32 | 48.6 |
| 4/25/2015 0:59:34 | 36.75 | 36.45 | 888 | 0.22 | 0.32 | 48.6 |
| 4/25/2015 0:59:34 | 37.07 | 36.77 | 896 | 0.22 | 0.33 | 49.0 |
| 4/25/2015 0:59:34 | 37.40 | 37.10 | 885 | 0.22 | 0.32 | 48.4 |
| 4/25/2015 0:59:35 | 37.73 | 37.43 | 899 | 0.44 | 0.32 | 49.2 |
| 4/25/2015 0:59:35 | 38.06 | 37.76 | 899 | 0.44 | 0.32 | 49.2 |
| 4/25/2015 0:59:35 | 38.39 | 38.09 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 0:59:36 | 38.71 | 38.41 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 0:59:36 | 39.04 | 38.74 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 0:59:37 | 39.37 | 39.07 | 908 | 0.22 | 0.32 | 49.6 |
| 4/25/2015 0:59:37 | 39.70 | 39.40 | 922 | 0.26 | 0.32 | 50.4 |
| 4/25/2015 0:59:38 | 40.03 | 39.73 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 0:59:38 | 40.35 | 40.05 | 911 | 0.25 | 0.32 | 49.8 |
| 4/25/2015 0:59:39 | 40.68 | 40.38 | 911 | 0.25 | 0.32 | 49.8 |
| 4/25/2015 0:59:39 | 41.01 | 40.71 | 911 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:59:39 | 41.34 | 41.04 | 916 | 0.22 | 0.32 | 50.1 |
| 4/25/2015 0:59:40 | 41.67 | 41.37 | 913 | 0.22 | 0.32 | 49.9 |
| 4/25/2015 0:59:40 | 41.99 | 41.69 | 913 | 0.22 | 0.32 | 49.9 |
| 4/25/2015 0:59:40 | 42.32 | 42.02 | 911 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:59:41 | 42.65 | 42.35 | 905 | 0.22 | 0.32 | 49.5 |
| 4/25/2015 0:59:41 | 42.98 | 42.68 | 911 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:59:42 | 43.31 | 43.01 | 911 | 0.22 | 0.32 | 49.8 |
| 4/25/2015 0:59:42 | 43.64 | 43.34 | 905 | 0.21 | 0.33 | 49.5 |
| 4/25/2015 0:59:42 | 43.96 | 43.66 | 899 | 0.21 | 0.32 | 49.2 |
| 4/25/2015 0:59:43 | 44.29 | 43.99 | 897 | 0.22 | 0.33 | 49.0 |
| 4/25/2015 0:59:43 | 44.62 | 44.32 | 897 | 0.22 | 0.33 | 49.0 |
| 4/25/2015 0:59:43 | 44.95 | 44.65 | 905 | 0.21 | 0.32 | 49.5 |
| 4/25/2015 0:59:44 | 45.28 | 44.98 | 896 | 0.22 | 0.33 | 49.0 |
| 4/25/2015 0:59:44 | 45.60 | 45.30 | 888 | 0.22 | 0.32 | 48.5 |
| 4/25/2015 0:59:45 | 45.93 | 45.63 | 882 | 0.21 | 0.34 | 48.2 |
| 4/25/2015 0:59:45 | 46.26 | 45.96 | 882 | 0.21 | 0.34 | 48.2 |
| 4/25/2015 1:01:01 | 46.59 | 46.29 | 0 | 3.77 | 0.35 | 0.0 |
| 4/25/2015 1:01:03 | 46.92 | 46.62 | 143 | 4.76 | 0.39 | 7.8 |
| 4/25/2015 1:01:08 | 47.24 | 46.94 | 59 | 3.41 | 0.35 | 3.2 |
| 4/25/2015 1:01:10 | 47.57 | 47.27 | 180 | 3.56 | 0.38 | 9.9 |
| 4/25/2015 1:01:12 | 47.90 | 47.60 | 168 | 3.67 | 0.37 | 9.2 |
| 4/25/2015 1:01:13 | 48.23 | 47.93 | 200 | 3.59 | 0.39 | 10.9 |
| 4/25/2015 1:01:14 | 48.56 | 48.26 | 251 | 4.00 | 0.37 | 13.7 |
| 4/25/2015 1:01:15 | 48.88 | 48.58 | 294 | 4.27 | 0.37 | 16.1 |
| 4/25/2015 1:01:16 | 49.21 | 48.91 | 347 | 3.58 | 0.37 | 19.0 |
| 4/25/2015 1:01:27 | 49.54 | 49.24 | 6 | 4.38 | 0.38 | 0.3 |
| 4/25/2015 1:01:33 | 49.87 | 49.57 | 17 | 5.33 | 0.39 | 0.9 |
| 4/25/2015 1:01:37 | 50.20 | 49.90 | 64 | 4.65 | 0.37 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 1:01:39 | 50.53 | 50.23 | 135 | 4.66 | 0.38 | 7.4 |
| 4/25/2015 | 1:01:45 | 50.85 | 50.55 | 35 | 4.05 | 0.37 | 1.9 |
| 4/25/2015 | 1:01:46 | 51.18 | 50.88 | 188 | 3.17 | 0.37 | 10.3 |
| 4/25/2015 | 1:01:46 | 51.51 | 51.21 | 253 | 3.28 | 0.37 | 13.8 |
| 4/25/2015 | 1:01:48 | 51.84 | 51.54 | 331 | 4.30 | 0.38 | 18.1 |
| 4/25/2015 | 1:02:23 | 52.17 | 51.87 | 61 | 3.35 | 0.40 | 3.3 |
| 4/25/2015 | 1:02:29 | 52.49 | 52.19 | 74 | 3.48 | 0.39 | 4.0 |
| 4/25/2015 | 1:02:35 | 52.82 | 52.52 | 72 | 3.50 | 0.39 | 3.9 |
| 4/25/2015 | 1:02:42 | 53.15 | 52.85 | 46 | 3.23 | 0.39 | 2.5 |
| 4/25/2015 | 1:02:47 | 53.36 | 53.06 | 43 | 4.38 | 0.39 | 2.4 |

## H369 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:56:17

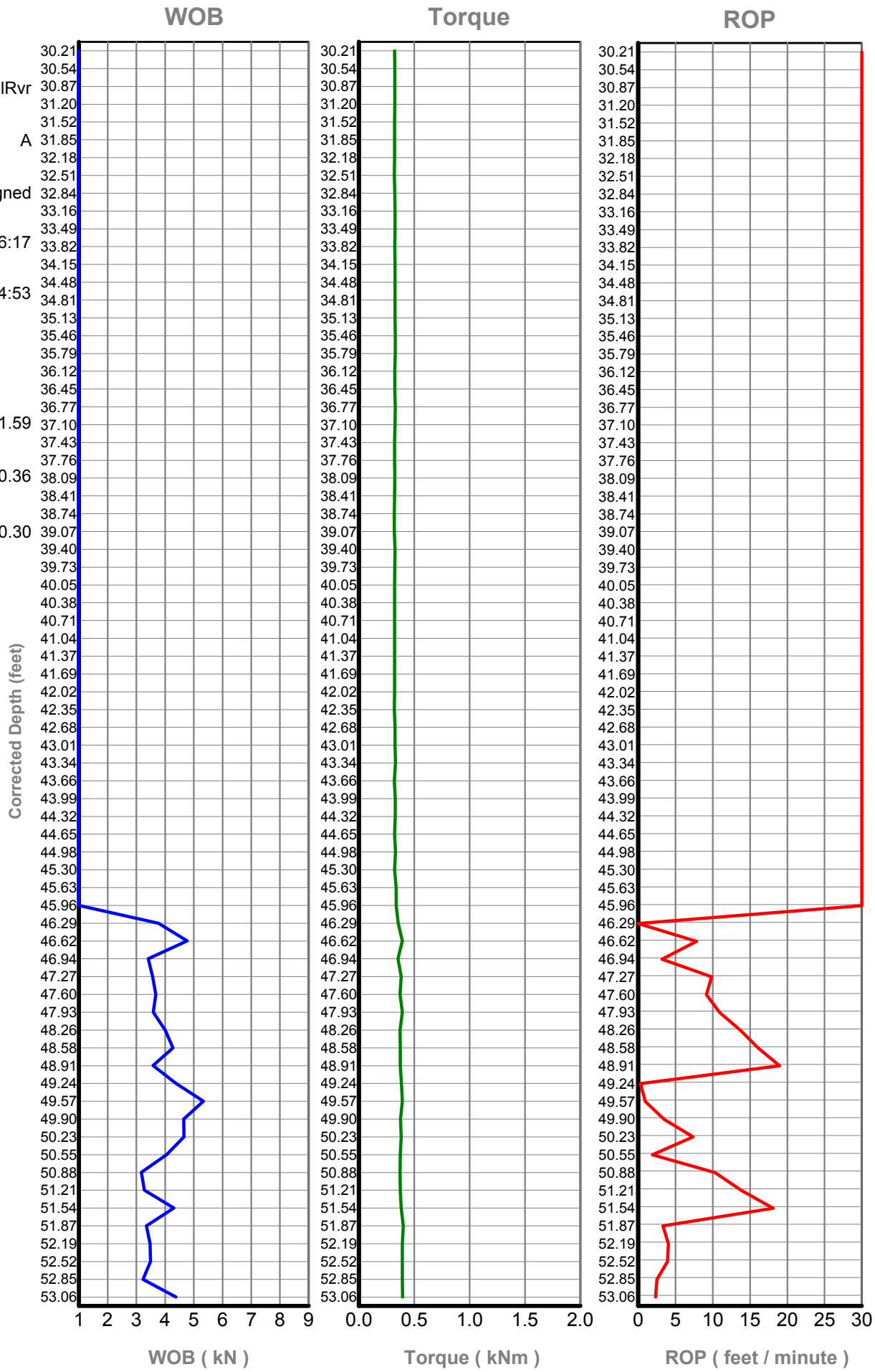
**End Date:**
4/25/2015 1:04:53

**Operator Note:**
'0.3 .3 b Auto Complete'

**Northing:**
366,581.59

**Easting:**
251,180.36

**Tide (feet):**
0.30



## Hole: H37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:06:54 | 30.51 | 30.21 | 633 | 0.45 | 0.36 | 34.6 |
| 4/23/2015 23:06:55 | 30.84 | 30.54 | 619 | 0.46 | 0.36 | 33.8 |
| 4/23/2015 23:06:55 | 31.17 | 30.87 | 606 | 0.47 | 0.36 | 33.1 |
| 4/23/2015 23:06:56 | 31.50 | 31.20 | 601 | 0.47 | 0.36 | 32.9 |
| 4/23/2015 23:06:57 | 31.82 | 31.52 | 601 | 0.47 | 0.36 | 32.9 |
| 4/23/2015 23:06:58 | 32.15 | 31.85 | 598 | 0.46 | 0.36 | 32.7 |
| 4/23/2015 23:06:58 | 32.48 | 32.18 | 590 | 0.47 | 0.36 | 32.3 |
| 4/23/2015 23:06:59 | 32.81 | 32.51 | 578 | 0.45 | 0.36 | 31.6 |
| 4/23/2015 23:07:00 | 33.14 | 32.84 | 558 | 0.45 | 0.36 | 30.5 |
| 4/23/2015 23:07:00 | 33.46 | 33.16 | 555 | 0.45 | 0.36 | 30.3 |
| 4/23/2015 23:07:01 | 33.79 | 33.49 | 555 | 0.45 | 0.36 | 30.3 |
| 4/23/2015 23:07:01 | 34.12 | 33.82 | 555 | 0.45 | 0.36 | 30.3 |
| 4/23/2015 23:07:02 | 34.45 | 34.15 | 552 | 0.45 | 0.36 | 30.2 |
| 4/23/2015 23:07:03 | 34.78 | 34.48 | 549 | 0.45 | 0.36 | 30.0 |
| 4/23/2015 23:07:03 | 35.11 | 34.81 | 546 | 0.45 | 0.36 | 29.9 |
| 4/23/2015 23:07:04 | 35.43 | 35.13 | 540 | 0.45 | 0.36 | 29.5 |
| 4/23/2015 23:07:05 | 35.76 | 35.46 | 538 | 0.45 | 0.36 | 29.4 |
| 4/23/2015 23:07:05 | 36.09 | 35.79 | 532 | 0.45 | 0.37 | 29.1 |
| 4/23/2015 23:07:06 | 36.42 | 36.12 | 500 | 0.44 | 0.37 | 27.3 |
| 4/23/2015 23:07:07 | 36.75 | 36.45 | 477 | 0.45 | 0.37 | 26.1 |
| 4/23/2015 23:07:08 | 37.07 | 36.77 | 445 | 0.45 | 0.37 | 24.3 |
| 4/23/2015 23:07:09 | 37.40 | 37.10 | 445 | 0.45 | 0.37 | 24.3 |
| 4/23/2015 23:07:10 | 37.73 | 37.43 | 454 | 0.46 | 0.37 | 24.8 |
| 4/23/2015 23:07:10 | 38.06 | 37.76 | 462 | 0.45 | 0.37 | 25.3 |
| 4/23/2015 23:07:11 | 38.39 | 38.09 | 477 | 0.45 | 0.38 | 26.1 |
| 4/23/2015 23:08:00 | 38.71 | 38.41 | 41 | 3.83 | 0.40 | 2.2 |
| 4/23/2015 23:08:05 | 39.04 | 38.74 | 64 | 4.31 | 0.40 | 3.5 |
| 4/23/2015 23:08:12 | 39.37 | 39.07 | 58 | 4.39 | 0.40 | 3.2 |
| 4/23/2015 23:08:18 | 39.70 | 39.40 | 56 | 4.19 | 0.40 | 3.0 |
| 4/23/2015 23:08:24 | 39.97 | 39.67 | 52 | 4.48 | 0.41 | 2.8 |

## H37 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:03:53

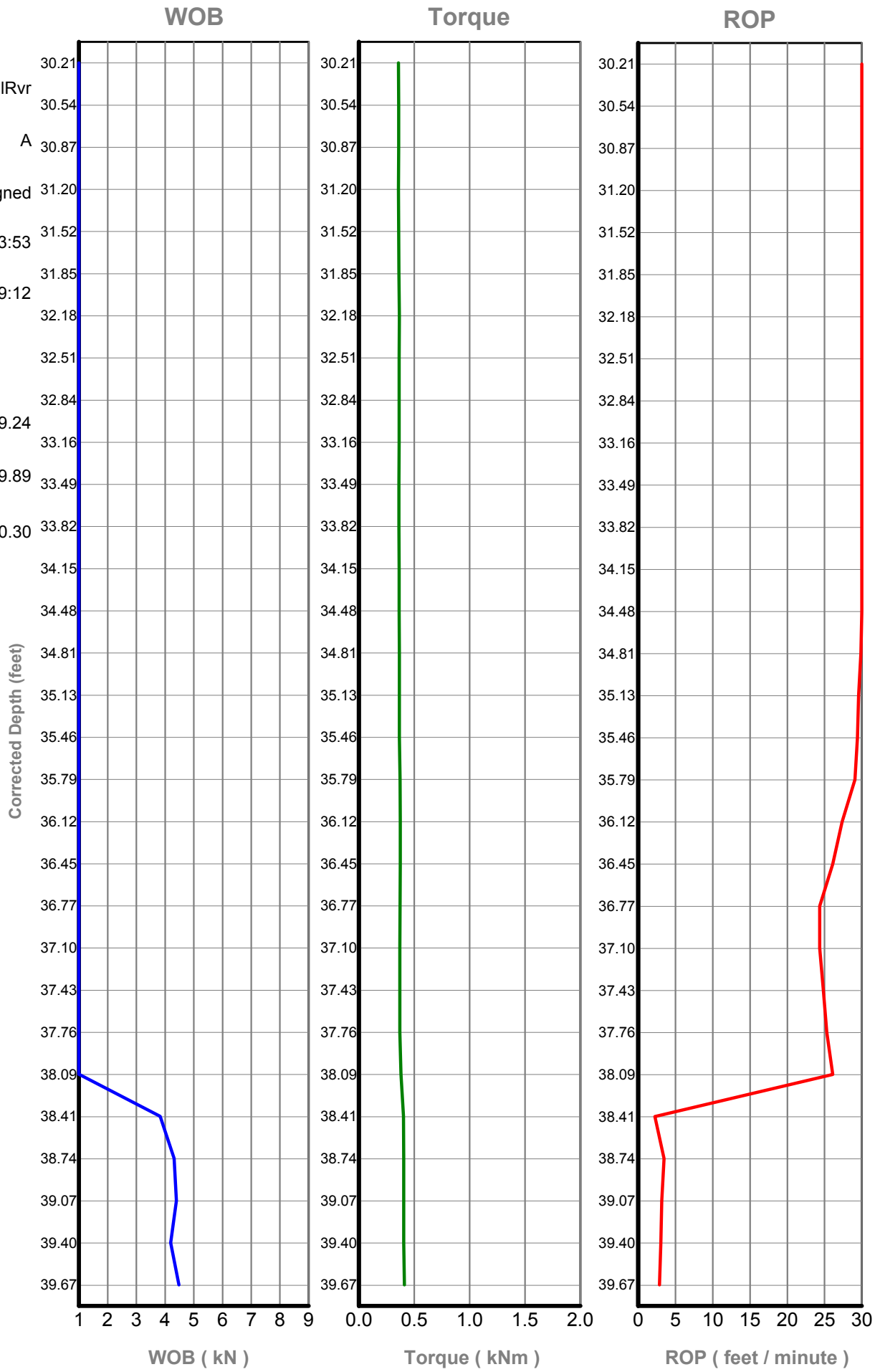
**End Date:**
4/23/2015 23:09:12

**Operator Note:**
'0.3 .5 b Auto Complete'

**Northing:**
367,299.24

**Easting:**
251,109.89

**Tide (feet):**
0.30



## Hole: H370 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 0:55:25 | 30.51 | 30.21 | 630 | 2.03 | 0.16 | 34.5 |
| 4/25/2015 0:55:25 | 30.84 | 30.54 | 627 | 1.97 | 0.16 | 34.3 |
| 4/25/2015 0:55:26 | 31.17 | 30.87 | 631 | 1.98 | 0.16 | 34.5 |
| 4/25/2015 0:55:27 | 31.50 | 31.20 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:27 | 31.82 | 31.52 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:28 | 32.15 | 31.85 | 621 | 1.98 | 0.16 | 34.0 |
| 4/25/2015 0:55:28 | 32.48 | 32.18 | 627 | 1.97 | 0.16 | 34.3 |
| 4/25/2015 0:55:29 | 32.81 | 32.51 | 621 | 1.95 | 0.16 | 33.9 |
| 4/25/2015 0:55:29 | 33.14 | 32.84 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:30 | 33.46 | 33.16 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:31 | 33.79 | 33.49 | 624 | 1.95 | 0.16 | 34.1 |
| 4/25/2015 0:55:31 | 34.12 | 33.82 | 621 | 1.97 | 0.16 | 34.0 |
| 4/25/2015 0:55:32 | 34.45 | 34.15 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:33 | 34.78 | 34.48 | 624 | 1.95 | 0.16 | 34.1 |
| 4/25/2015 0:55:33 | 35.11 | 34.81 | 628 | 1.97 | 0.16 | 34.3 |
| 4/25/2015 0:55:34 | 35.43 | 35.13 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:34 | 35.76 | 35.46 | 621 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:55:35 | 36.09 | 35.79 | 624 | 1.96 | 0.16 | 34.1 |
| 4/25/2015 0:55:35 | 36.42 | 36.12 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 0:55:36 | 36.75 | 36.45 | 621 | 1.96 | 0.16 | 34.0 |
| 4/25/2015 0:55:36 | 37.07 | 36.77 | 621 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:55:37 | 37.40 | 37.10 | 624 | 1.98 | 0.16 | 34.1 |
| 4/25/2015 0:55:38 | 37.73 | 37.43 | 621 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:55:38 | 38.06 | 37.76 | 624 | 1.95 | 0.16 | 34.1 |
| 4/25/2015 0:55:39 | 38.39 | 38.09 | 627 | 1.97 | 0.16 | 34.3 |
| 4/25/2015 0:55:39 | 38.71 | 38.41 | 618 | 1.98 | 0.16 | 33.8 |
| 4/25/2015 0:55:40 | 39.04 | 38.74 | 618 | 1.97 | 0.16 | 33.8 |
| 4/25/2015 0:55:41 | 39.37 | 39.07 | 618 | 1.96 | 0.16 | 33.8 |
| 4/25/2015 0:55:41 | 39.70 | 39.40 | 621 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:55:42 | 40.03 | 39.73 | 622 | 1.97 | 0.16 | 34.0 |
| 4/25/2015 0:55:42 | 40.35 | 40.05 | 618 | 1.97 | 0.16 | 33.8 |
| 4/25/2015 0:55:43 | 40.68 | 40.38 | 625 | 1.96 | 0.16 | 34.2 |
| 4/25/2015 0:55:44 | 41.01 | 40.71 | 621 | 1.97 | 0.16 | 34.0 |
| 4/25/2015 0:55:44 | 41.34 | 41.04 | 618 | 1.96 | 0.16 | 33.8 |
| 4/25/2015 0:55:45 | 41.67 | 41.37 | 608 | 1.96 | 0.16 | 33.2 |
| 4/25/2015 0:55:45 | 41.99 | 41.69 | 608 | 1.95 | 0.16 | 33.2 |
| 4/25/2015 0:55:46 | 42.32 | 42.02 | 619 | 1.97 | 0.16 | 33.8 |
| 4/25/2015 0:55:46 | 42.65 | 42.35 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:55:47 | 42.98 | 42.68 | 613 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 0:55:47 | 43.31 | 43.01 | 616 | 1.95 | 0.16 | 33.7 |
| 4/25/2015 0:55:48 | 43.64 | 43.34 | 626 | 1.98 | 0.16 | 34.3 |
| 4/25/2015 0:55:49 | 43.96 | 43.66 | 619 | 1.97 | 0.16 | 33.8 |
| 4/25/2015 0:55:49 | 44.29 | 43.99 | 622 | 1.96 | 0.16 | 34.0 |
| 4/25/2015 0:55:50 | 44.62 | 44.32 | 619 | 1.98 | 0.16 | 33.8 |
| 4/25/2015 0:55:50 | 44.95 | 44.65 | 622 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:55:51 | 45.28 | 44.98 | 615 | 1.97 | 0.16 | 33.6 |
| 4/25/2015 0:55:52 | 45.60 | 45.30 | 622 | 1.95 | 0.16 | 34.0 |
| 4/25/2015 0:56:16 | 45.93 | 45.63 | 61 | 2.00 | 1.15 | 3.3 |
| 4/25/2015 0:56:34 | 46.26 | 45.96 | 7 | 1.95 | 1.20 | 0.4 |
| 4/25/2015 0:56:35 | 46.59 | 46.29 | 136 | 1.99 | 1.15 | 7.4 |
| 4/25/2015 0:57:09 | 46.92 | 46.62 | 0 | 1.97 | 1.21 | 0.0 |
| 4/25/2015 0:57:10 | 47.24 | 46.94 | 93 | 1.99 | 1.37 | 5.1 |
| 4/25/2015 0:57:12 | 47.57 | 47.27 | 266 | 1.97 | 1.29 | 14.5 |
| 4/25/2015 0:57:13 | 47.90 | 47.60 | 284 | 1.98 | 1.18 | 15.5 |
| 4/25/2015 0:57:15 | 48.23 | 47.93 | 280 | 1.99 | 1.38 | 15.3 |
| 4/25/2015 0:57:16 | 48.56 | 48.26 | 276 | 1.93 | 1.27 | 15.1 |
| 4/25/2015 0:58:13 | 48.88 | 48.58 | 0 | 1.93 | 1.13 | 0.0 |
| 4/25/2015 0:58:14 | 49.21 | 48.91 | 86 | 1.95 | 1.16 | 4.7 |
| 4/25/2015 0:58:15 | 49.54 | 49.24 | 225 | 2.01 | 1.15 | 12.3 |
| 4/25/2015 0:58:16 | 49.87 | 49.57 | 335 | 1.98 | 1.09 | 18.3 |
| 4/25/2015 0:58:30 | 50.20 | 49.90 | 49 | 1.97 | 1.34 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 0:58:31 | 50.53 | 50.23 | 204 | 1.98 | 1.48 | 11.2 |
| 4/25/2015 | 0:58:33 | 50.85 | 50.55 | 261 | 1.98 | 1.15 | 14.3 |
| 4/25/2015 | 0:58:34 | 51.18 | 50.88 | 248 | 1.98 | 1.54 | 13.6 |
| 4/25/2015 | 0:58:53 | 51.51 | 51.21 | 37 | 1.96 | 1.12 | 2.0 |
| 4/25/2015 | 0:58:54 | 51.84 | 51.54 | 127 | 1.95 | 1.41 | 7.0 |
| 4/25/2015 | 0:58:55 | 52.17 | 51.87 | 188 | 1.96 | 1.23 | 10.3 |
| 4/25/2015 | 0:58:57 | 52.49 | 52.19 | 263 | 1.98 | 1.10 | 14.4 |
| 4/25/2015 | 0:58:58 | 52.82 | 52.52 | 292 | 1.96 | 1.09 | 15.9 |
| 4/25/2015 | 0:58:59 | 53.15 | 52.85 | 305 | 1.93 | 1.09 | 16.7 |
| 4/25/2015 | 0:59:00 | 53.48 | 53.18 | 318 | 1.98 | 1.08 | 17.4 |
| 4/25/2015 | 0:59:01 | 53.81 | 53.51 | 335 | 1.98 | 1.08 | 18.3 |
| 4/25/2015 | 0:59:02 | 54.13 | 53.83 | 358 | 1.99 | 1.08 | 19.6 |
| 4/25/2015 | 0:59:03 | 54.46 | 54.16 | 355 | 1.98 | 1.07 | 19.4 |
| 4/25/2015 | 0:59:04 | 54.79 | 54.49 | 342 | 1.98 | 1.08 | 18.7 |
| 4/25/2015 | 0:59:05 | 55.12 | 54.82 | 336 | 1.99 | 1.10 | 18.4 |
| 4/25/2015 | 0:59:06 | 55.45 | 55.15 | 318 | 1.98 | 1.11 | 17.4 |
| 4/25/2015 | 0:59:06 | 55.49 | 55.19 | 318 | 1.98 | 1.11 | 17.4 |

## H370 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 0:52:50

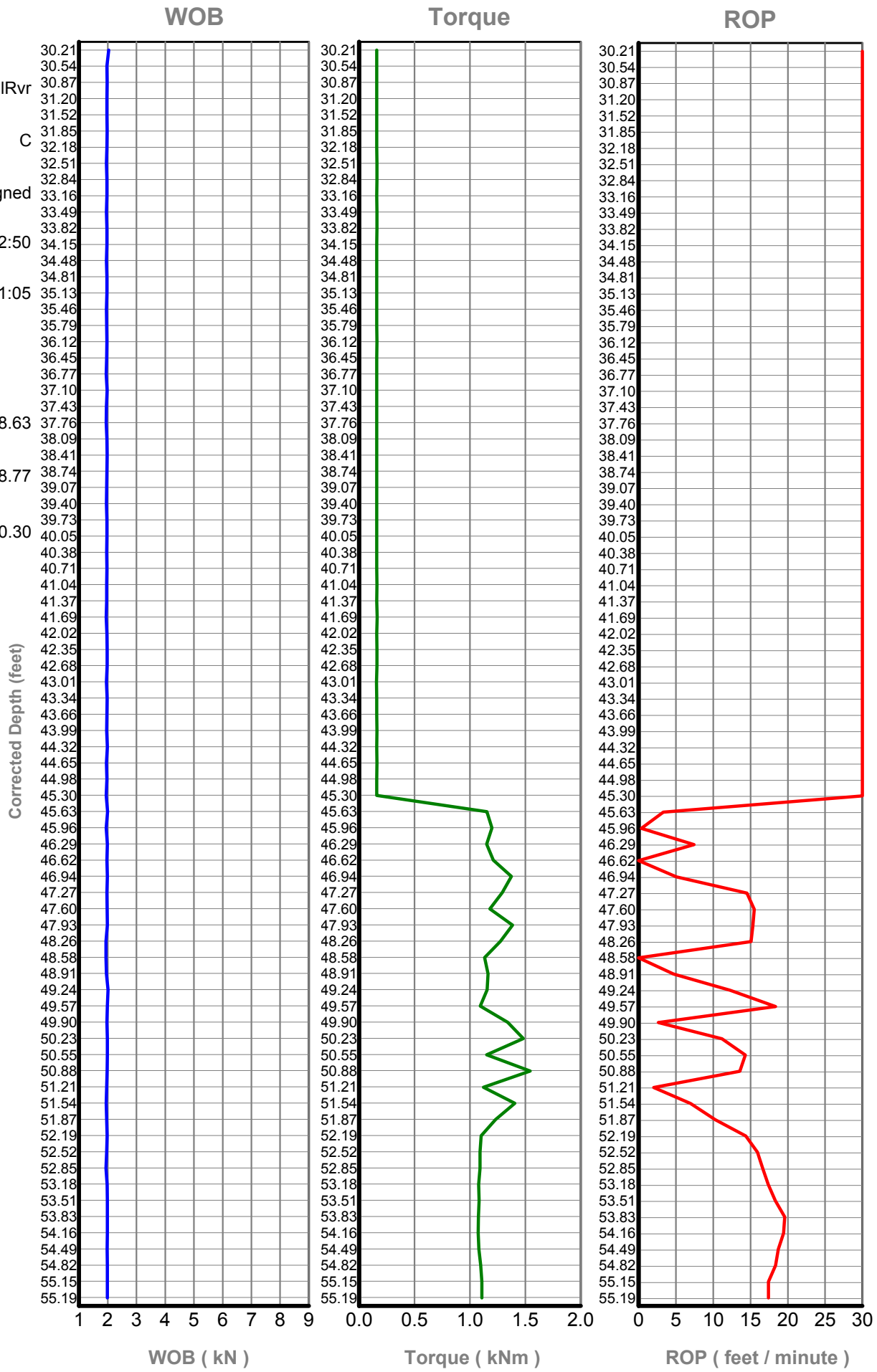
**End Date:**
4/25/2015 1:01:05

**Operator Note:**
'0.3 .3 c Auto Complete'

**Northing:**
366,628.63

**Easting:**
251,238.77

**Tide (feet):**
0.30



## Hole: H371 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 6:18:40 | 35.11 | 30.11 | 870 | 0.38 | 0.32 | 47.6 |
| 4/24/2015 6:18:40 | 35.43 | 30.43 | 870 | 0.38 | 0.32 | 47.6 |
| 4/24/2015 6:18:40 | 35.76 | 30.76 | 867 | 0.38 | 0.33 | 47.4 |
| 4/24/2015 6:18:41 | 36.09 | 31.09 | 868 | 0.37 | 0.35 | 47.4 |
| 4/24/2015 6:18:41 | 36.42 | 31.42 | 862 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 6:18:42 | 36.75 | 31.75 | 856 | 0.38 | 0.32 | 46.8 |
| 4/24/2015 6:18:42 | 37.07 | 32.07 | 856 | 0.38 | 0.32 | 46.8 |
| 4/24/2015 6:18:42 | 37.40 | 32.40 | 848 | 0.37 | 0.32 | 46.4 |
| 4/24/2015 6:18:43 | 37.73 | 32.73 | 861 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 6:18:43 | 38.06 | 33.06 | 853 | 0.37 | 0.33 | 46.6 |
| 4/24/2015 6:18:44 | 38.39 | 33.39 | 856 | 0.38 | 0.32 | 46.8 |
| 4/24/2015 6:18:44 | 38.71 | 33.71 | 856 | 0.38 | 0.32 | 46.8 |
| 4/24/2015 6:18:44 | 39.04 | 34.04 | 861 | 0.37 | 0.33 | 47.1 |
| 4/24/2015 6:18:45 | 39.37 | 34.37 | 867 | 0.38 | 0.33 | 47.4 |
| 4/24/2015 6:18:45 | 39.70 | 34.70 | 867 | 0.37 | 0.33 | 47.4 |
| 4/24/2015 6:18:46 | 40.03 | 35.03 | 864 | 0.37 | 0.33 | 47.3 |
| 4/24/2015 6:18:46 | 40.35 | 35.35 | 864 | 0.37 | 0.33 | 47.3 |
| 4/24/2015 6:18:46 | 40.68 | 35.68 | 862 | 0.38 | 0.32 | 47.1 |
| 4/24/2015 6:18:47 | 41.01 | 36.01 | 844 | 0.37 | 0.33 | 46.2 |
| 4/24/2015 6:18:47 | 41.34 | 36.34 | 844 | 0.38 | 0.33 | 46.2 |
| 4/24/2015 6:18:48 | 41.67 | 36.67 | 856 | 0.20 | 0.32 | 46.8 |
| 4/24/2015 6:18:49 | 41.99 | 36.99 | 856 | 0.20 | 0.32 | 46.8 |
| 4/24/2015 6:18:49 | 42.32 | 37.32 | 832 | 0.38 | 0.33 | 45.5 |
| 4/24/2015 6:18:49 | 42.65 | 37.65 | 845 | 0.37 | 0.32 | 46.2 |
| 4/24/2015 6:18:50 | 42.98 | 37.98 | 845 | 0.37 | 0.33 | 46.2 |
| 4/24/2015 6:18:50 | 43.31 | 38.31 | 845 | 0.37 | 0.33 | 46.2 |
| 4/24/2015 6:18:50 | 43.64 | 38.64 | 857 | 0.38 | 0.33 | 46.9 |
| 4/24/2015 6:18:51 | 43.96 | 38.96 | 854 | 0.38 | 0.33 | 46.7 |
| 4/24/2015 6:18:51 | 44.29 | 39.29 | 841 | 0.37 | 0.33 | 46.0 |
| 4/24/2015 6:18:52 | 44.62 | 39.62 | 861 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 6:18:52 | 44.95 | 39.95 | 861 | 0.37 | 0.32 | 47.1 |
| 4/24/2015 6:18:52 | 45.28 | 40.28 | 861 | 0.37 | 0.33 | 47.1 |
| 4/24/2015 6:18:53 | 45.60 | 40.60 | 854 | 0.37 | 0.33 | 46.7 |
| 4/24/2015 6:18:53 | 45.93 | 40.93 | 836 | 0.37 | 0.33 | 45.7 |
| 4/24/2015 6:18:54 | 46.26 | 41.26 | 851 | 0.37 | 0.33 | 46.5 |
| 4/24/2015 6:18:54 | 46.59 | 41.59 | 851 | 0.37 | 0.33 | 46.5 |
| 4/24/2015 6:18:54 | 46.92 | 41.92 | 850 | 0.38 | 0.32 | 46.5 |
| 4/24/2015 6:18:55 | 47.24 | 42.24 | 850 | 0.38 | 0.32 | 46.5 |
| 4/24/2015 6:18:55 | 47.57 | 42.57 | 873 | 0.37 | 0.33 | 47.7 |
| 4/24/2015 6:18:56 | 47.90 | 42.90 | 877 | 0.38 | 0.33 | 48.0 |
| 4/24/2015 6:18:56 | 48.23 | 43.23 | 877 | 0.38 | 0.33 | 48.0 |
| 4/24/2015 6:18:56 | 48.56 | 43.56 | 866 | 0.37 | 0.33 | 47.3 |
| 4/24/2015 6:18:57 | 48.88 | 43.88 | 866 | 0.38 | 0.32 | 47.3 |
| 4/24/2015 6:18:57 | 49.21 | 44.21 | 870 | 0.38 | 0.33 | 47.5 |
| 4/24/2015 6:18:58 | 49.54 | 44.54 | 870 | 0.37 | 0.33 | 47.5 |
| 4/24/2015 6:18:59 | 49.87 | 44.87 | 870 | 0.37 | 0.33 | 47.5 |
| 4/24/2015 6:18:59 | 50.20 | 45.20 | 866 | 0.38 | 0.33 | 47.4 |
| 4/24/2015 6:18:59 | 50.53 | 45.53 | 845 | 0.38 | 0.32 | 46.2 |
| 4/24/2015 6:19:00 | 50.85 | 45.85 | 845 | 0.37 | 0.32 | 46.2 |
| 4/24/2015 6:19:00 | 51.18 | 46.18 | 845 | 0.37 | 0.32 | 46.2 |
| 4/24/2015 6:19:01 | 51.51 | 46.51 | 810 | 0.33 | 0.40 | 44.3 |
| 4/24/2015 6:19:17 | 51.84 | 46.84 | 47 | 2.97 | 0.37 | 2.6 |
| 4/24/2015 6:19:18 | 52.17 | 47.17 | 107 | 3.78 | 0.37 | 5.9 |
| 4/24/2015 6:19:18 | 52.49 | 47.49 | 107 | 3.56 | 0.37 | 5.9 |
| 4/24/2015 6:19:19 | 52.82 | 47.82 | 267 | 3.63 | 0.37 | 14.6 |
| 4/24/2015 6:19:21 | 53.15 | 48.15 | 376 | 4.26 | 0.37 | 20.5 |
| 4/24/2015 6:19:22 | 53.48 | 48.48 | 364 | 3.78 | 0.37 | 19.9 |
| 4/24/2015 6:19:23 | 53.81 | 48.81 | 375 | 2.78 | 0.35 | 20.5 |
| 4/24/2015 6:19:36 | 54.13 | 49.13 | 0 | 3.69 | 0.37 | 0.0 |
| 4/24/2015 6:19:37 | 54.46 | 49.46 | 112 | 3.73 | 0.37 | 6.1 |
| 4/24/2015 6:19:37 | 54.79 | 49.79 | 112 | 4.42 | 0.36 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 6:19:52 | 55.12 | 50.12 | 64 | 5.02 | 0.39 | 3.5 |
| 4/24/2015 | 6:19:54 | 55.45 | 50.45 | 176 | 6.25 | 0.39 | 9.6 |
| 4/24/2015 | 6:19:57 | 55.77 | 50.77 | 68 | 4.18 | 0.37 | 3.7 |
| 4/24/2015 | 6:19:59 | 56.10 | 51.10 | 163 | 4.04 | 0.39 | 8.9 |
| 4/24/2015 | 6:20:05 | 56.43 | 51.43 | 62 | 3.64 | 0.40 | 3.4 |
| 4/24/2015 | 6:20:11 | 56.76 | 51.76 | 52 | 3.64 | 0.40 | 2.8 |
| 4/24/2015 | 6:20:18 | 57.09 | 52.09 | 52 | 4.19 | 0.40 | 2.8 |
| 4/24/2015 | 6:20:25 | 57.41 | 52.41 | 51 | 3.52 | 0.40 | 2.8 |
| 4/24/2015 | 6:20:30 | 57.65 | 52.65 | 58 | 4.11 | 0.40 | 3.2 |

## H371 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 6:16:30

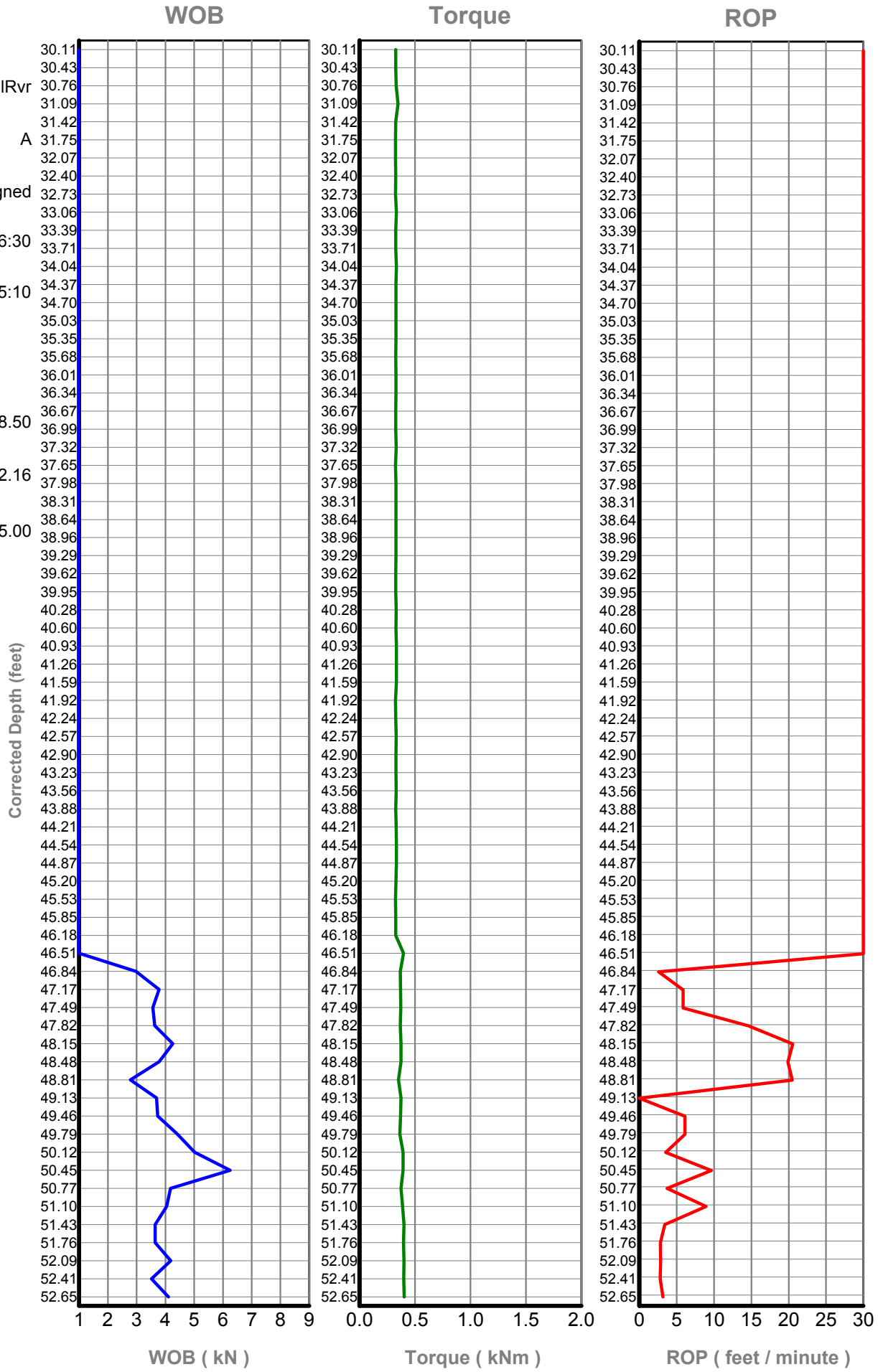
**End Date:**
4/24/2015 6:25:10

**Operator Note:**
'5 5 b Auto Complete'

**Northing:**
366,688.50

**Easting:**
251,312.16

**Tide (feet):**
5.00



## Hole: H372 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 6:12:20 | 35.11 | 30.11 | 816 | 0.39 | 0.32 | 44.6 |
| 4/24/2015 6:12:20 | 35.43 | 30.43 | 816 | 0.39 | 0.33 | 44.6 |
| 4/24/2015 6:12:21 | 35.76 | 30.76 | 816 | 0.39 | 0.33 | 44.6 |
| 4/24/2015 6:12:21 | 36.09 | 31.09 | 819 | 0.38 | 0.33 | 44.8 |
| 4/24/2015 6:12:21 | 36.42 | 31.42 | 842 | 0.39 | 0.32 | 46.1 |
| 4/24/2015 6:12:22 | 36.75 | 31.75 | 821 | 0.39 | 0.33 | 44.9 |
| 4/24/2015 6:12:22 | 37.07 | 32.07 | 829 | 0.39 | 0.32 | 45.3 |
| 4/24/2015 6:12:23 | 37.40 | 32.40 | 821 | 0.39 | 0.32 | 44.9 |
| 4/24/2015 6:12:23 | 37.73 | 32.73 | 821 | 0.39 | 0.32 | 44.9 |
| 4/24/2015 6:12:24 | 38.06 | 33.06 | 826 | 0.38 | 0.32 | 45.2 |
| 4/24/2015 6:12:24 | 38.39 | 33.39 | 802 | 0.39 | 0.32 | 43.9 |
| 4/24/2015 6:12:25 | 38.71 | 33.71 | 821 | 0.39 | 0.32 | 44.9 |
| 4/24/2015 6:12:25 | 39.04 | 34.04 | 809 | 0.38 | 0.32 | 44.2 |
| 4/24/2015 6:12:26 | 39.37 | 34.37 | 809 | 0.38 | 0.32 | 44.2 |
| 4/24/2015 6:12:26 | 39.70 | 34.70 | 807 | 0.38 | 0.32 | 44.1 |
| 4/24/2015 6:12:26 | 40.03 | 35.03 | 799 | 0.38 | 0.32 | 43.7 |
| 4/24/2015 6:12:27 | 40.35 | 35.35 | 799 | 0.38 | 0.32 | 43.7 |
| 4/24/2015 6:12:27 | 40.68 | 35.68 | 847 | 0.38 | 0.33 | 46.3 |
| 4/24/2015 6:12:28 | 41.01 | 36.01 | 836 | 0.38 | 0.33 | 45.7 |
| 4/24/2015 6:12:28 | 41.34 | 36.34 | 836 | 0.38 | 0.33 | 45.7 |
| 4/24/2015 6:12:28 | 41.67 | 36.67 | 840 | 0.38 | 0.32 | 46.0 |
| 4/24/2015 6:12:29 | 41.99 | 36.99 | 845 | 0.39 | 0.32 | 46.2 |
| 4/24/2015 6:12:29 | 42.32 | 37.32 | 846 | 0.38 | 0.33 | 46.3 |
| 4/24/2015 6:12:30 | 42.65 | 37.65 | 836 | 0.38 | 0.32 | 45.7 |
| 4/24/2015 6:12:30 | 42.98 | 37.98 | 831 | 0.37 | 0.32 | 45.4 |
| 4/24/2015 6:12:31 | 43.31 | 38.31 | 831 | 0.37 | 0.32 | 45.4 |
| 4/24/2015 6:12:31 | 43.64 | 38.64 | 839 | 0.39 | 0.33 | 45.9 |
| 4/24/2015 6:12:31 | 43.96 | 38.96 | 815 | 0.40 | 0.33 | 44.6 |
| 4/24/2015 6:12:32 | 44.29 | 39.29 | 809 | 0.38 | 0.33 | 44.3 |
| 4/24/2015 6:12:32 | 44.62 | 39.62 | 801 | 0.38 | 0.32 | 43.8 |
| 4/24/2015 6:12:33 | 44.95 | 39.95 | 801 | 0.38 | 0.32 | 43.8 |
| 4/24/2015 6:12:33 | 45.28 | 40.28 | 801 | 0.39 | 0.32 | 43.8 |
| 4/24/2015 6:12:34 | 45.60 | 40.60 | 823 | 0.38 | 0.33 | 45.0 |
| 4/24/2015 6:12:34 | 45.93 | 40.93 | 787 | 0.38 | 0.32 | 43.1 |
| 4/24/2015 6:12:35 | 46.26 | 41.26 | 787 | 0.38 | 0.32 | 43.1 |
| 4/24/2015 6:12:35 | 46.59 | 41.59 | 830 | 0.38 | 0.32 | 45.4 |
| 4/24/2015 6:12:36 | 46.92 | 41.92 | 830 | 0.38 | 0.32 | 45.4 |
| 4/24/2015 6:12:36 | 47.24 | 42.24 | 814 | 0.38 | 0.32 | 44.5 |
| 4/24/2015 6:12:36 | 47.57 | 42.57 | 814 | 0.39 | 0.32 | 44.5 |
| 4/24/2015 6:12:37 | 47.90 | 42.90 | 813 | 0.38 | 0.32 | 44.4 |
| 4/24/2015 6:12:37 | 48.23 | 43.23 | 813 | 0.38 | 0.33 | 44.4 |
| 4/24/2015 6:12:38 | 48.56 | 43.56 | 797 | 0.39 | 0.32 | 43.6 |
| 4/24/2015 6:12:38 | 48.88 | 43.88 | 797 | 0.39 | 0.32 | 43.6 |
| 4/24/2015 6:12:38 | 49.21 | 44.21 | 809 | 0.39 | 0.32 | 44.3 |
| 4/24/2015 6:12:39 | 49.54 | 44.54 | 801 | 0.38 | 0.33 | 43.8 |
| 4/24/2015 6:12:39 | 49.87 | 44.87 | 801 | 0.39 | 0.32 | 43.8 |
| 4/24/2015 6:12:40 | 50.20 | 45.20 | 839 | 0.39 | 0.32 | 45.9 |
| 4/24/2015 6:12:40 | 50.53 | 45.53 | 840 | 0.38 | 0.35 | 45.9 |
| 4/24/2015 6:12:41 | 50.85 | 45.85 | 802 | 0.36 | 0.37 | 43.9 |
| 4/24/2015 6:12:56 | 51.18 | 46.18 | 71 | 3.61 | 0.40 | 3.9 |
| 4/24/2015 6:13:03 | 51.51 | 46.51 | 33 | 4.09 | 0.39 | 1.8 |
| 4/24/2015 6:13:04 | 51.84 | 46.84 | 89 | 3.87 | 0.36 | 4.9 |
| 4/24/2015 6:13:05 | 52.17 | 47.17 | 218 | 4.19 | 0.36 | 11.9 |
| 4/24/2015 6:13:06 | 52.49 | 47.49 | 218 | 3.33 | 0.36 | 11.9 |
| 4/24/2015 6:13:07 | 52.82 | 47.82 | 297 | 3.83 | 0.36 | 16.2 |
| 4/24/2015 6:13:08 | 53.15 | 48.15 | 387 | 3.61 | 0.36 | 21.2 |
| 4/24/2015 6:13:08 | 53.48 | 48.48 | 387 | 4.49 | 0.36 | 21.2 |
| 4/24/2015 6:13:09 | 53.81 | 48.81 | 404 | 3.52 | 0.36 | 22.1 |
| 4/24/2015 6:13:10 | 54.13 | 49.13 | 393 | 3.35 | 0.35 | 21.5 |
| 4/24/2015 6:13:11 | 54.46 | 49.46 | 399 | 2.75 | 0.36 | 21.8 |
| 4/24/2015 6:13:12 | 54.79 | 49.79 | 446 | 3.93 | 0.37 | 24.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 6:13:20 | 55.12 | 50.12 | 6 | 8.22 | 0.39 | 0.3 |
| 4/24/2015 | 6:13:27 | 55.45 | 50.45 | 42 | 2.93 | 0.36 | 2.3 |
| 4/24/2015 | 6:13:28 | 55.77 | 50.77 | 138 | 2.55 | 0.35 | 7.5 |
| 4/24/2015 | 6:13:28 | 56.10 | 51.10 | 251 | 2.49 | 0.36 | 13.7 |
| 4/24/2015 | 6:13:29 | 56.43 | 51.43 | 379 | 2.63 | 0.35 | 20.7 |
| 4/24/2015 | 6:13:29 | 56.76 | 51.76 | 495 | 2.75 | 0.35 | 27.1 |
| 4/24/2015 | 6:13:30 | 57.09 | 52.09 | 581 | 2.65 | 0.34 | 31.8 |
| 4/24/2015 | 6:13:31 | 57.41 | 52.41 | 601 | 3.31 | 0.38 | 32.8 |
| 4/24/2015 | 6:13:42 | 57.74 | 52.74 | 49 | 3.58 | 0.40 | 2.7 |
| 4/24/2015 | 6:13:46 | 58.07 | 53.07 | 81 | 3.96 | 0.39 | 4.4 |
| 4/24/2015 | 6:13:52 | 58.40 | 53.40 | 62 | 3.60 | 0.39 | 3.4 |
| 4/24/2015 | 6:13:58 | 58.73 | 53.73 | 67 | 4.09 | 0.40 | 3.6 |
| 4/24/2015 | 6:14:03 | 59.06 | 54.06 | 65 | 3.83 | 0.39 | 3.5 |
| 4/24/2015 | 6:14:08 | 59.36 | 54.36 | 64 | 4.68 | 0.40 | 3.5 |

## H372 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 6:09:55

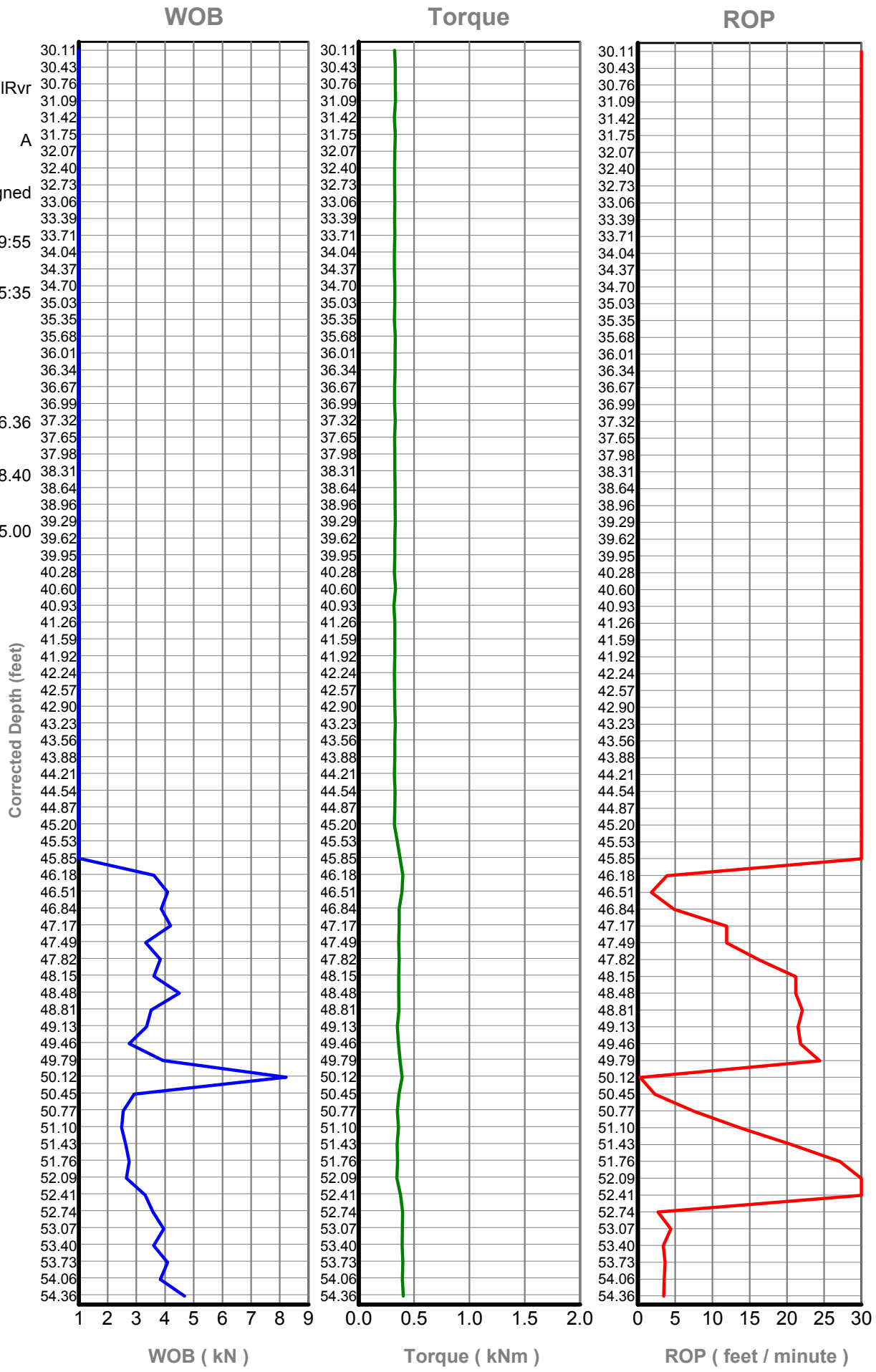
**End Date:**
4/24/2015 6:15:35

**Operator Note:**
'5 5.1 b Auto Complete'

**Northing:**
366,726.36

**Easting:**
251,358.40

**Tide (feet):**
5.00



## Hole: H373 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 6:14:24 | 35.11 | 30.11 | 558 | 2.04 | 0.18 | 30.5 |
| 4/24/2015 6:14:24 | 35.43 | 30.43 | 558 | 2.04 | 0.18 | 30.5 |
| 4/24/2015 6:14:25 | 35.76 | 30.76 | 562 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 6:14:26 | 36.09 | 31.09 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 6:14:26 | 36.42 | 31.42 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 6:14:27 | 36.75 | 31.75 | 567 | 2.00 | 0.18 | 31.0 |
| 4/24/2015 6:14:27 | 37.07 | 32.07 | 567 | 2.04 | 0.19 | 31.0 |
| 4/24/2015 6:14:28 | 37.40 | 32.40 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 6:14:29 | 37.73 | 32.73 | 567 | 1.99 | 0.18 | 31.0 |
| 4/24/2015 6:14:29 | 38.06 | 33.06 | 570 | 2.04 | 0.18 | 31.2 |
| 4/24/2015 6:14:30 | 38.39 | 33.39 | 564 | 2.01 | 0.18 | 30.8 |
| 4/24/2015 6:14:30 | 38.71 | 33.71 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 6:14:32 | 39.04 | 34.04 | 561 | 2.03 | 0.18 | 30.7 |
| 4/24/2015 6:14:32 | 39.37 | 34.37 | 554 | 2.06 | 0.18 | 30.3 |
| 4/24/2015 6:14:33 | 39.70 | 34.70 | 567 | 2.01 | 0.18 | 31.0 |
| 4/24/2015 6:14:33 | 40.03 | 35.03 | 564 | 2.04 | 0.18 | 30.9 |
| 4/24/2015 6:14:34 | 40.35 | 35.35 | 571 | 2.03 | 0.18 | 31.2 |
| 4/24/2015 6:14:35 | 40.68 | 35.68 | 570 | 2.31 | 0.19 | 31.2 |
| 4/24/2015 6:14:36 | 41.01 | 36.01 | 570 | 2.31 | 0.19 | 31.2 |
| 4/24/2015 6:14:36 | 41.34 | 36.34 | 562 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 6:14:36 | 41.67 | 36.67 | 556 | 2.04 | 0.18 | 30.4 |
| 4/24/2015 6:14:37 | 41.99 | 36.99 | 556 | 2.00 | 0.18 | 30.4 |
| 4/24/2015 6:14:38 | 42.32 | 37.32 | 552 | 1.99 | 0.18 | 30.2 |
| 4/24/2015 6:14:38 | 42.65 | 37.65 | 552 | 2.04 | 0.18 | 30.2 |
| 4/24/2015 6:14:39 | 42.98 | 37.98 | 557 | 2.04 | 0.18 | 30.4 |
| 4/24/2015 6:14:39 | 43.31 | 38.31 | 558 | 2.02 | 0.18 | 30.5 |
| 4/24/2015 6:14:40 | 43.64 | 38.64 | 560 | 2.04 | 0.18 | 30.6 |
| 4/24/2015 6:14:41 | 43.96 | 38.96 | 569 | 2.04 | 0.18 | 31.1 |
| 4/24/2015 6:14:41 | 44.29 | 39.29 | 564 | 2.05 | 0.18 | 30.8 |
| 4/24/2015 6:14:42 | 44.62 | 39.62 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 6:14:43 | 44.95 | 39.95 | 567 | 2.03 | 0.18 | 31.0 |
| 4/24/2015 6:14:44 | 45.28 | 40.28 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 6:14:44 | 45.60 | 40.60 | 561 | 2.04 | 0.19 | 30.7 |
| 4/24/2015 6:14:45 | 45.93 | 40.93 | 558 | 2.03 | 0.18 | 30.5 |
| 4/24/2015 6:14:45 | 46.26 | 41.26 | 561 | 2.01 | 0.18 | 30.7 |
| 4/24/2015 6:14:46 | 46.59 | 41.59 | 561 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 6:14:47 | 46.92 | 41.92 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 6:14:47 | 47.24 | 42.24 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 6:14:48 | 47.57 | 42.57 | 564 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 6:14:48 | 47.90 | 42.90 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 6:14:49 | 48.23 | 43.23 | 564 | 2.05 | 0.18 | 30.8 |
| 4/24/2015 6:14:50 | 48.56 | 43.56 | 558 | 2.02 | 0.18 | 30.5 |
| 4/24/2015 6:15:16 | 48.88 | 43.88 | 0 | 2.04 | 1.16 | 0.0 |
| 4/24/2015 6:15:20 | 49.21 | 44.21 | 29 | 2.03 | 1.19 | 1.6 |
| 4/24/2015 6:15:26 | 49.54 | 44.54 | 15 | 2.06 | 1.37 | 0.8 |
| 4/24/2015 6:15:27 | 49.87 | 44.87 | 119 | 2.02 | 1.27 | 6.5 |
| 4/24/2015 6:15:28 | 50.20 | 45.20 | 244 | 2.02 | 1.21 | 13.3 |
| 4/24/2015 6:15:41 | 50.53 | 45.53 | 34 | 2.06 | 1.20 | 1.9 |
| 4/24/2015 6:15:58 | 50.85 | 45.85 | 63 | 2.00 | 1.19 | 3.5 |
| 4/24/2015 6:15:59 | 51.18 | 46.18 | 213 | 2.03 | 1.11 | 11.7 |
| 4/24/2015 6:16:12 | 51.51 | 46.51 | 11 | 2.00 | 1.10 | 0.6 |
| 4/24/2015 6:16:13 | 51.84 | 46.84 | 139 | 2.02 | 1.14 | 7.6 |
| 4/24/2015 6:16:14 | 52.17 | 47.17 | 264 | 2.00 | 1.08 | 14.4 |
| 4/24/2015 6:16:15 | 52.49 | 47.49 | 318 | 2.03 | 1.16 | 17.4 |
| 4/24/2015 6:16:22 | 52.82 | 47.82 | 0 | 2.00 | 1.13 | 0.0 |
| 4/24/2015 6:16:25 | 53.15 | 48.15 | 118 | 2.02 | 1.27 | 6.4 |
| 4/24/2015 6:16:27 | 53.48 | 48.48 | 160 | 2.02 | 1.26 | 8.7 |
| 4/24/2015 6:16:37 | 53.81 | 48.81 | 58 | 2.02 | 1.57 | 3.2 |
| 4/24/2015 6:16:39 | 54.13 | 49.13 | 159 | 2.05 | 1.16 | 8.7 |
| 4/24/2015 6:16:40 | 54.46 | 49.46 | 175 | 2.02 | 1.27 | 9.5 |
| 4/24/2015 6:16:41 | 54.79 | 49.79 | 272 | 2.00 | 1.24 | 14.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 6:16:43 | 55.12 | 50.12 | 255 | 2.04 | 1.17 | 13.9 |
| 4/24/2015 | 6:16:57 | 55.45 | 50.45 | 31 | 2.00 | 1.16 | 1.7 |
| 4/24/2015 | 6:16:58 | 55.77 | 50.77 | 132 | 2.01 | 1.23 | 7.2 |
| 4/24/2015 | 6:17:00 | 56.10 | 51.10 | 271 | 2.02 | 1.11 | 14.8 |
| 4/24/2015 | 6:17:01 | 56.43 | 51.43 | 266 | 2.03 | 1.12 | 14.6 |
| 4/24/2015 | 6:17:02 | 56.76 | 51.76 | 294 | 2.02 | 1.12 | 16.1 |
| 4/24/2015 | 6:17:03 | 57.09 | 52.09 | 301 | 2.02 | 1.13 | 16.5 |
| 4/24/2015 | 6:17:04 | 57.41 | 52.41 | 314 | 2.02 | 1.22 | 17.2 |
| 4/24/2015 | 6:17:05 | 57.74 | 52.74 | 295 | 2.02 | 1.16 | 16.1 |
| 4/24/2015 | 6:17:06 | 58.07 | 53.07 | 313 | 2.02 | 1.17 | 17.1 |
| 4/24/2015 | 6:17:09 | 58.40 | 53.40 | 248 | 2.02 | 1.12 | 13.5 |
| 4/24/2015 | 6:17:09 | 58.73 | 53.73 | 248 | 2.02 | 1.12 | 13.5 |
| 4/24/2015 | 6:17:10 | 59.06 | 54.06 | 264 | 2.02 | 1.11 | 14.4 |
| 4/24/2015 | 6:17:11 | 59.38 | 54.38 | 282 | 2.03 | 1.11 | 15.4 |
| 4/24/2015 | 6:17:12 | 59.71 | 54.71 | 346 | 2.02 | 1.12 | 18.9 |
| 4/24/2015 | 6:17:14 | 60.04 | 55.04 | 326 | 1.95 | 1.12 | 17.8 |

## H373 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 6:11:37

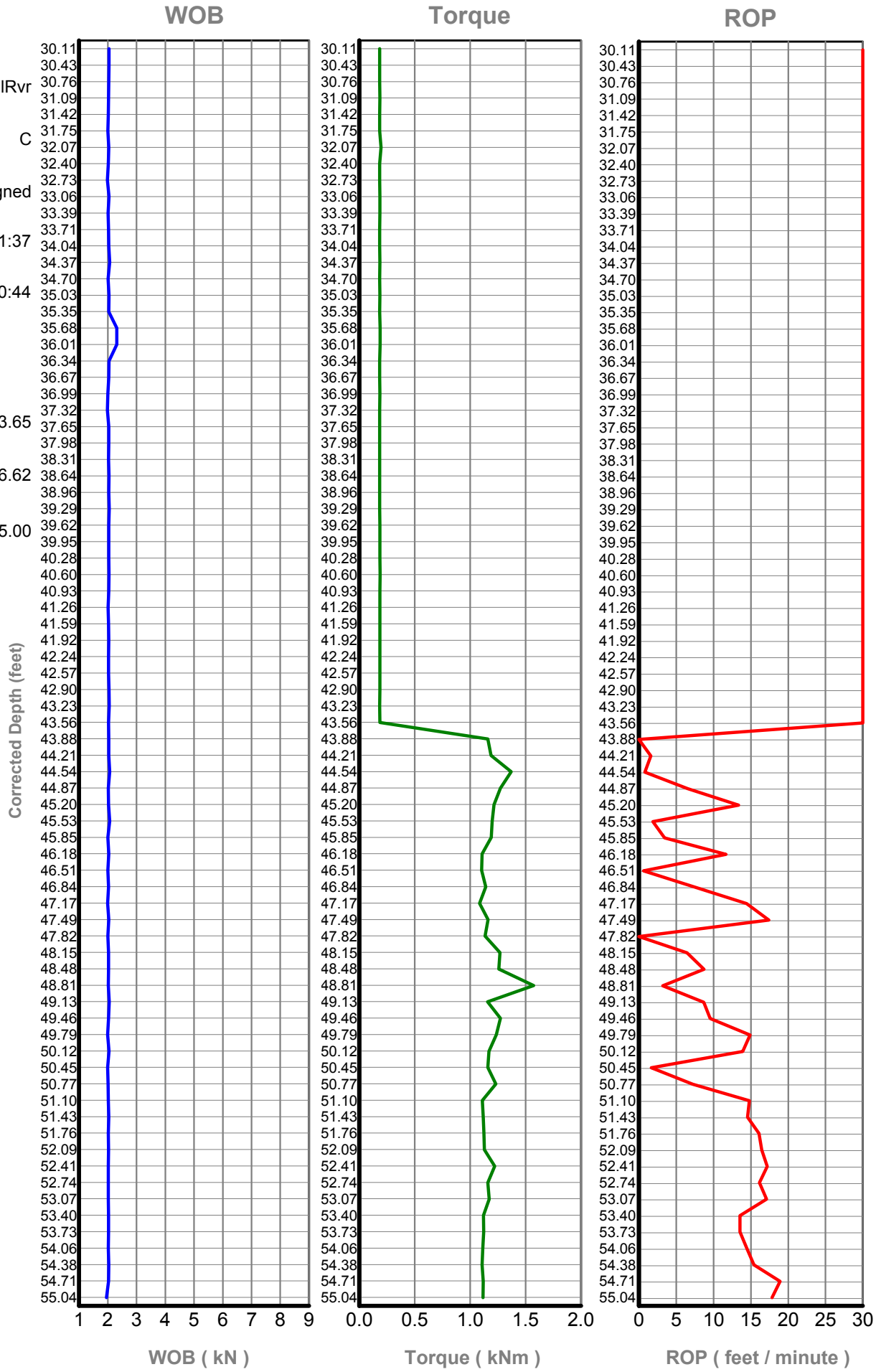
**End Date:**
4/24/2015 6:20:44

**Operator Note:**
'5 5.1 c Auto Complete'

**Northing:**
366,773.65

**Easting:**
251,416.62

**Tide (feet):**
5.00



## Hole: H374 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 3:08:56 | 33.79 | 30.19 | 698 | 0.97 | 0.35 | 38.2 |
| 4/24/2015 3:08:56 | 34.12 | 30.52 | 711 | 0.97 | 0.35 | 38.9 |
| 4/24/2015 3:08:57 | 34.45 | 30.85 | 712 | 0.97 | 0.36 | 38.9 |
| 4/24/2015 3:08:57 | 34.78 | 31.18 | 709 | 0.97 | 0.35 | 38.8 |
| 4/24/2015 3:08:58 | 35.11 | 31.51 | 709 | 0.97 | 0.35 | 38.8 |
| 4/24/2015 3:08:58 | 35.43 | 31.83 | 712 | 0.97 | 0.35 | 38.9 |
| 4/24/2015 3:08:59 | 35.76 | 32.16 | 718 | 0.98 | 0.35 | 39.3 |
| 4/24/2015 3:08:59 | 36.09 | 32.49 | 708 | 0.97 | 0.35 | 38.7 |
| 4/24/2015 3:09:00 | 36.42 | 32.82 | 705 | 0.98 | 0.35 | 38.6 |
| 4/24/2015 3:09:01 | 36.75 | 33.15 | 701 | 0.97 | 0.35 | 38.3 |
| 4/24/2015 3:09:01 | 37.07 | 33.47 | 705 | 0.96 | 0.35 | 38.6 |
| 4/24/2015 3:09:02 | 37.40 | 33.80 | 703 | 0.26 | 0.35 | 38.4 |
| 4/24/2015 3:09:02 | 37.73 | 34.13 | 705 | 0.27 | 0.35 | 38.6 |
| 4/24/2015 3:09:03 | 38.06 | 34.46 | 708 | 0.27 | 0.35 | 38.7 |
| 4/24/2015 3:09:03 | 38.39 | 34.79 | 708 | 0.27 | 0.35 | 38.7 |
| 4/24/2015 3:09:04 | 38.71 | 35.11 | 708 | 0.27 | 0.35 | 38.7 |
| 4/24/2015 3:09:04 | 39.04 | 35.44 | 711 | 0.27 | 0.35 | 38.9 |
| 4/24/2015 3:09:05 | 39.37 | 35.77 | 710 | 0.27 | 0.35 | 38.8 |
| 4/24/2015 3:09:05 | 39.70 | 36.10 | 717 | 0.28 | 0.35 | 39.2 |
| 4/24/2015 3:09:06 | 40.03 | 36.43 | 709 | 0.27 | 0.35 | 38.8 |
| 4/24/2015 3:09:06 | 40.35 | 36.75 | 709 | 0.28 | 0.35 | 38.8 |
| 4/24/2015 3:09:07 | 40.68 | 37.08 | 708 | 0.27 | 0.35 | 38.7 |
| 4/24/2015 3:09:07 | 41.01 | 37.41 | 713 | 0.28 | 0.35 | 39.0 |
| 4/24/2015 3:09:08 | 41.34 | 37.74 | 707 | 0.28 | 0.35 | 38.7 |
| 4/24/2015 3:09:08 | 41.67 | 38.07 | 707 | 0.28 | 0.35 | 38.7 |
| 4/24/2015 3:09:08 | 41.99 | 38.39 | 707 | 0.28 | 0.35 | 38.7 |
| 4/24/2015 3:09:09 | 42.32 | 38.72 | 714 | 0.29 | 0.35 | 39.0 |
| 4/24/2015 3:09:09 | 42.65 | 39.05 | 717 | 0.27 | 0.35 | 39.2 |
| 4/24/2015 3:09:10 | 42.98 | 39.38 | 720 | 0.27 | 0.35 | 39.4 |
| 4/24/2015 3:09:11 | 43.31 | 39.71 | 723 | 0.27 | 0.35 | 39.5 |
| 4/24/2015 3:09:11 | 43.64 | 40.04 | 719 | 0.29 | 0.35 | 39.3 |
| 4/24/2015 3:09:12 | 43.96 | 40.36 | 727 | 0.27 | 0.35 | 39.8 |
| 4/24/2015 3:09:25 | 44.29 | 40.69 | 0 | 1.39 | 0.35 | 0.0 |
| 4/24/2015 3:09:25 | 44.62 | 41.02 | 126 | 0.33 | 0.29 | 6.9 |
| 4/24/2015 3:09:26 | 44.95 | 41.35 | 272 | 0.26 | 0.35 | 14.9 |
| 4/24/2015 3:09:26 | 45.28 | 41.68 | 424 | 0.26 | 0.32 | 23.2 |
| 4/24/2015 3:09:27 | 45.60 | 42.00 | 574 | 0.27 | 0.35 | 31.4 |
| 4/24/2015 3:09:27 | 45.93 | 42.33 | 719 | 0.28 | 0.34 | 39.3 |
| 4/24/2015 3:09:28 | 46.26 | 42.66 | 739 | 0.26 | 0.35 | 40.4 |
| 4/24/2015 3:09:28 | 46.59 | 42.99 | 739 | 0.26 | 0.35 | 40.4 |
| 4/24/2015 3:09:28 | 46.92 | 43.32 | 749 | 0.25 | 0.35 | 40.9 |
| 4/24/2015 3:09:29 | 47.24 | 43.64 | 743 | 0.26 | 0.34 | 40.6 |
| 4/24/2015 3:09:30 | 47.57 | 43.97 | 749 | 0.26 | 0.35 | 41.0 |
| 4/24/2015 3:09:30 | 47.90 | 44.30 | 728 | 0.24 | 0.38 | 39.8 |
| 4/24/2015 3:09:51 | 48.23 | 44.63 | 82 | 5.31 | 0.40 | 4.5 |
| 4/24/2015 3:09:55 | 48.56 | 44.96 | 116 | 7.95 | 0.41 | 6.3 |
| 4/24/2015 3:10:02 | 48.88 | 45.28 | 24 | 5.68 | 0.37 | 1.3 |
| 4/24/2015 3:10:05 | 49.21 | 45.61 | 144 | 5.92 | 0.39 | 7.9 |
| 4/24/2015 3:10:07 | 49.54 | 45.94 | 117 | 5.81 | 0.40 | 6.4 |
| 4/24/2015 3:10:08 | 49.87 | 46.27 | 131 | 3.67 | 0.38 | 7.1 |
| 4/24/2015 3:10:10 | 50.20 | 46.60 | 193 | 7.81 | 0.41 | 10.6 |
| 4/24/2015 3:10:16 | 50.53 | 46.93 | 64 | 7.65 | 0.40 | 3.5 |
| 4/24/2015 3:10:18 | 50.85 | 47.25 | 158 | 5.82 | 0.41 | 8.6 |
| 4/24/2015 3:10:21 | 51.18 | 47.58 | 105 | 4.64 | 0.38 | 5.7 |
| 4/24/2015 3:10:39 | 51.51 | 47.91 | 18 | 4.78 | 0.41 | 1.0 |
| 4/24/2015 3:10:41 | 51.84 | 48.24 | 138 | 4.22 | 0.41 | 7.6 |
| 4/24/2015 3:10:43 | 52.17 | 48.57 | 141 | 3.92 | 0.38 | 7.7 |
| 4/24/2015 3:10:45 | 52.49 | 48.89 | 181 | 4.43 | 0.38 | 9.9 |
| 4/24/2015 3:11:11 | 52.82 | 49.22 | 0 | 4.34 | 0.40 | 0.0 |
| 4/24/2015 3:11:16 | 53.15 | 49.55 | 78 | 5.00 | 0.41 | 4.3 |
| 4/24/2015 3:11:20 | 53.48 | 49.88 | 95 | 6.74 | 0.40 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 3:11:22 | 53.81 | 50.21 | 150 | 5.46 | 0.40 | 8.2 |
| 4/24/2015 | 3:11:23 | 54.13 | 50.53 | 199 | 4.88 | 0.38 | 10.9 |
| 4/24/2015 | 3:11:24 | 54.46 | 50.86 | 289 | 3.82 | 0.37 | 15.8 |
| 4/24/2015 | 3:11:24 | 54.79 | 51.19 | 346 | 3.39 | 0.38 | 18.9 |
| 4/24/2015 | 3:11:26 | 55.12 | 51.52 | 428 | 3.55 | 0.39 | 23.4 |
| 4/24/2015 | 3:12:45 | 55.45 | 51.85 | 120 | 2.96 | 0.38 | 6.6 |
| 4/24/2015 | 3:12:46 | 55.77 | 52.17 | 194 | 2.97 | 0.38 | 10.6 |
| 4/24/2015 | 3:12:51 | 56.10 | 52.50 | 38 | 2.97 | 0.38 | 2.1 |
| 4/24/2015 | 3:12:52 | 56.43 | 52.83 | 183 | 3.16 | 0.39 | 10.0 |
| 4/24/2015 | 3:12:53 | 56.76 | 53.16 | 302 | 3.11 | 0.39 | 16.5 |
| 4/24/2015 | 3:12:54 | 57.09 | 53.49 | 309 | 2.99 | 0.38 | 16.9 |
| 4/24/2015 | 3:12:55 | 57.41 | 53.81 | 332 | 3.22 | 0.38 | 18.2 |
| 4/24/2015 | 3:12:56 | 57.74 | 54.14 | 370 | 3.16 | 0.38 | 20.2 |
| 4/24/2015 | 3:12:57 | 58.07 | 54.47 | 387 | 2.99 | 0.38 | 21.2 |
| 4/24/2015 | 3:15:54 | 58.40 | 54.80 | 0 | 2.60 | 0.36 | 0.0 |
| 4/24/2015 | 3:15:55 | 58.73 | 55.13 | 112 | 2.70 | 0.37 | 6.1 |
| 4/24/2015 | 3:15:55 | 58.82 | 55.22 | 112 | 2.70 | 0.37 | 6.1 |

## H374 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 3:04:36

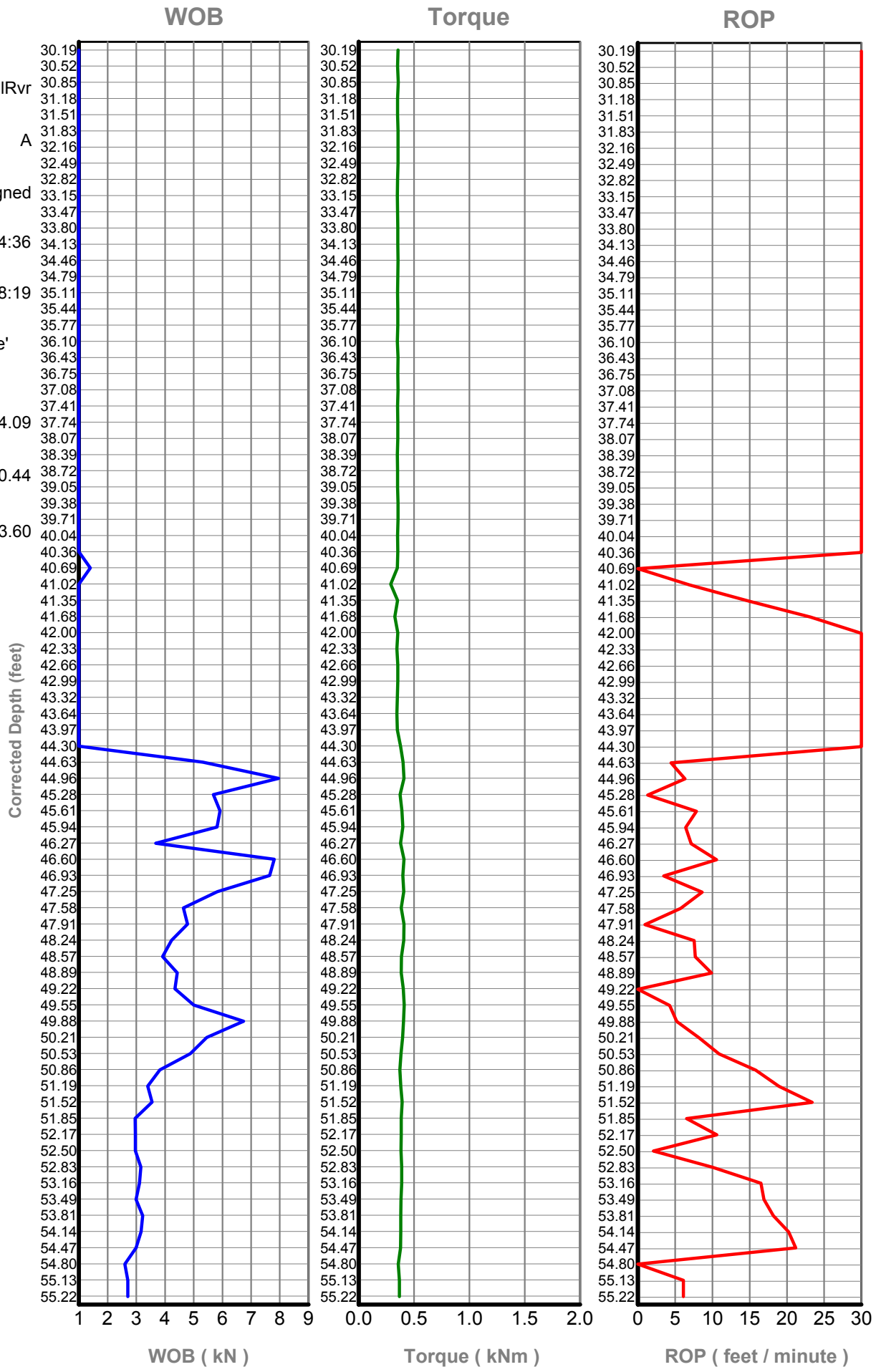
**End Date:**
4/24/2015 3:18:19

**Operator Note:**
'3.6 3.1 b Auto Complete'

**Northing:**
366,834.09

**Easting:**
251,490.44

**Tide (feet):**
3.60



## Hole: H375 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 3:24:31 | 34.12 | 30.22 | 824 | 0.55 | 0.33 | 45.1 |
| 4/24/2015 3:24:32 | 34.45 | 30.55 | 827 | 0.55 | 0.33 | 45.2 |
| 4/24/2015 3:24:32 | 34.78 | 30.88 | 818 | 0.55 | 0.33 | 44.8 |
| 4/24/2015 3:24:33 | 35.11 | 31.21 | 823 | 0.55 | 0.33 | 45.0 |
| 4/24/2015 3:24:33 | 35.43 | 31.53 | 813 | 0.55 | 0.33 | 44.5 |
| 4/24/2015 3:24:34 | 35.76 | 31.86 | 813 | 0.55 | 0.33 | 44.5 |
| 4/24/2015 3:24:34 | 36.09 | 32.19 | 821 | 0.55 | 0.34 | 44.9 |
| 4/24/2015 3:24:34 | 36.42 | 32.52 | 812 | 0.55 | 0.33 | 44.4 |
| 4/24/2015 3:24:35 | 36.75 | 32.85 | 812 | 0.55 | 0.34 | 44.4 |
| 4/24/2015 3:24:35 | 37.07 | 33.17 | 810 | 0.54 | 0.34 | 44.3 |
| 4/24/2015 3:24:36 | 37.40 | 33.50 | 812 | 0.55 | 0.33 | 44.4 |
| 4/24/2015 3:24:36 | 37.73 | 33.83 | 812 | 0.55 | 0.33 | 44.4 |
| 4/24/2015 3:24:36 | 38.06 | 34.16 | 809 | 0.55 | 0.33 | 44.3 |
| 4/24/2015 3:24:37 | 38.39 | 34.49 | 815 | 0.55 | 0.33 | 44.6 |
| 4/24/2015 3:24:38 | 38.71 | 34.81 | 813 | 0.57 | 0.33 | 44.5 |
| 4/24/2015 3:24:38 | 39.04 | 35.14 | 821 | 0.54 | 0.33 | 44.9 |
| 4/24/2015 3:24:39 | 39.37 | 35.47 | 818 | 0.54 | 0.33 | 44.7 |
| 4/24/2015 3:24:39 | 39.70 | 35.80 | 818 | 0.54 | 0.33 | 44.7 |
| 4/24/2015 3:24:39 | 40.03 | 36.13 | 821 | 0.54 | 0.33 | 44.9 |
| 4/24/2015 3:24:40 | 40.35 | 36.45 | 818 | 0.46 | 0.34 | 44.7 |
| 4/24/2015 3:24:40 | 40.68 | 36.78 | 805 | 0.55 | 0.34 | 44.0 |
| 4/24/2015 3:24:41 | 41.01 | 37.11 | 794 | 0.55 | 0.33 | 43.4 |
| 4/24/2015 3:24:41 | 41.34 | 37.44 | 794 | 0.55 | 0.33 | 43.4 |
| 4/24/2015 3:24:42 | 41.67 | 37.77 | 794 | 0.23 | 0.34 | 43.4 |
| 4/24/2015 3:24:42 | 41.99 | 38.09 | 794 | 0.23 | 0.34 | 43.4 |
| 4/24/2015 3:24:42 | 42.32 | 38.42 | 802 | 0.22 | 0.34 | 43.9 |
| 4/24/2015 3:24:43 | 42.65 | 38.75 | 808 | 0.22 | 0.33 | 44.2 |
| 4/24/2015 3:24:43 | 42.98 | 39.08 | 810 | 0.22 | 0.33 | 44.3 |
| 4/24/2015 3:24:44 | 43.31 | 39.41 | 810 | 0.22 | 0.33 | 44.3 |
| 4/24/2015 3:24:44 | 43.64 | 39.74 | 823 | 0.23 | 0.33 | 45.0 |
| 4/24/2015 3:24:45 | 43.96 | 40.06 | 823 | 0.23 | 0.33 | 45.0 |
| 4/24/2015 3:24:45 | 44.29 | 40.39 | 833 | 0.22 | 0.33 | 45.6 |
| 4/24/2015 3:24:45 | 44.62 | 40.72 | 818 | 0.22 | 0.33 | 44.7 |
| 4/24/2015 3:24:46 | 44.95 | 41.05 | 812 | 0.23 | 0.33 | 44.4 |
| 4/24/2015 3:24:46 | 45.28 | 41.38 | 828 | 0.23 | 0.34 | 45.3 |
| 4/24/2015 3:24:47 | 45.60 | 41.70 | 818 | 0.23 | 0.34 | 44.7 |
| 4/24/2015 3:24:48 | 45.93 | 42.03 | 818 | 0.23 | 0.34 | 44.7 |
| 4/24/2015 3:24:48 | 46.26 | 42.36 | 809 | 0.23 | 0.33 | 44.3 |
| 4/24/2015 3:24:48 | 46.59 | 42.69 | 812 | 0.23 | 0.33 | 44.4 |
| 4/24/2015 3:24:49 | 46.92 | 43.02 | 820 | 0.23 | 0.33 | 44.8 |
| 4/24/2015 3:24:49 | 47.24 | 43.34 | 815 | 0.23 | 0.34 | 44.6 |
| 4/24/2015 3:24:50 | 47.57 | 43.67 | 818 | 0.24 | 0.33 | 44.7 |
| 4/24/2015 3:24:50 | 47.90 | 44.00 | 818 | 0.24 | 0.33 | 44.7 |
| 4/24/2015 3:24:50 | 48.23 | 44.33 | 816 | 0.23 | 0.34 | 44.6 |
| 4/24/2015 3:24:51 | 48.56 | 44.66 | 821 | 0.23 | 0.34 | 44.9 |
| 4/24/2015 3:24:51 | 48.88 | 44.98 | 810 | 0.20 | 0.36 | 44.3 |
| 4/24/2015 3:25:12 | 49.21 | 45.31 | 44 | 5.50 | 0.38 | 2.4 |
| 4/24/2015 3:25:13 | 49.54 | 45.64 | 189 | 4.60 | 0.38 | 10.3 |
| 4/24/2015 3:25:14 | 49.87 | 45.97 | 269 | 4.26 | 0.38 | 14.7 |
| 4/24/2015 3:25:19 | 50.20 | 46.30 | 47 | 3.84 | 0.37 | 2.6 |
| 4/24/2015 3:25:20 | 50.53 | 46.63 | 81 | 3.83 | 0.37 | 4.4 |
| 4/24/2015 3:25:21 | 50.85 | 46.95 | 162 | 3.07 | 0.37 | 8.8 |
| 4/24/2015 3:25:55 | 51.18 | 47.28 | 26 | 8.10 | 0.39 | 1.4 |
| 4/24/2015 3:25:58 | 51.51 | 47.61 | 170 | 4.09 | 0.38 | 9.3 |
| 4/24/2015 3:25:59 | 51.84 | 47.94 | 213 | 4.15 | 0.38 | 11.7 |
| 4/24/2015 3:26:00 | 52.17 | 48.27 | 292 | 4.20 | 0.40 | 16.0 |
| 4/24/2015 3:26:02 | 52.49 | 48.59 | 186 | 3.71 | 0.39 | 10.2 |
| 4/24/2015 3:26:07 | 52.82 | 48.92 | 91 | 3.64 | 0.39 | 5.0 |
| 4/24/2015 3:26:08 | 53.15 | 49.25 | 131 | 2.52 | 0.37 | 7.2 |
| 4/24/2015 3:26:10 | 53.48 | 49.58 | 239 | 2.71 | 0.36 | 13.1 |
| 4/24/2015 3:26:10 | 53.81 | 49.91 | 315 | 2.53 | 0.36 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 3:26:11 | 54.13 | 50.23 | 315 | 2.61 | 0.37 | 17.2 |
| 4/24/2015 | 3:26:12 | 54.46 | 50.56 | 373 | 3.98 | 0.37 | 20.4 |
| 4/24/2015 | 3:26:13 | 54.79 | 50.89 | 423 | 3.03 | 0.38 | 23.1 |
| 4/24/2015 | 3:26:20 | 55.12 | 51.22 | 43 | 4.46 | 0.39 | 2.3 |
| 4/24/2015 | 3:26:33 | 55.45 | 51.55 | 0 | 7.19 | 0.40 | 0.0 |
| 4/24/2015 | 3:26:36 | 55.77 | 51.87 | 87 | 5.46 | 0.39 | 4.8 |
| 4/24/2015 | 3:26:37 | 56.10 | 52.20 | 177 | 5.09 | 0.38 | 9.7 |
| 4/24/2015 | 3:26:38 | 56.43 | 52.53 | 248 | 5.14 | 0.39 | 13.6 |
| 4/24/2015 | 3:26:40 | 56.76 | 52.86 | 265 | 4.63 | 0.38 | 14.5 |
| 4/24/2015 | 3:26:41 | 57.09 | 53.19 | 289 | 4.45 | 0.38 | 15.8 |
| 4/24/2015 | 3:26:44 | 57.41 | 53.51 | 220 | 8.03 | 0.40 | 12.1 |
| 4/24/2015 | 3:28:57 | 57.74 | 53.84 | 86 | 4.08 | 0.38 | 4.7 |
| 4/24/2015 | 3:29:00 | 58.07 | 54.17 | 127 | 4.51 | 0.38 | 6.9 |
| 4/24/2015 | 3:29:01 | 58.40 | 54.50 | 146 | 2.95 | 0.36 | 8.0 |
| 4/24/2015 | 3:29:01 | 58.73 | 54.83 | 190 | 2.63 | 0.36 | 10.4 |
| 4/24/2015 | 3:29:02 | 58.95 | 55.05 | 281 | 2.95 | 0.41 | 15.4 |

## H375 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/24/2015 3:23:03

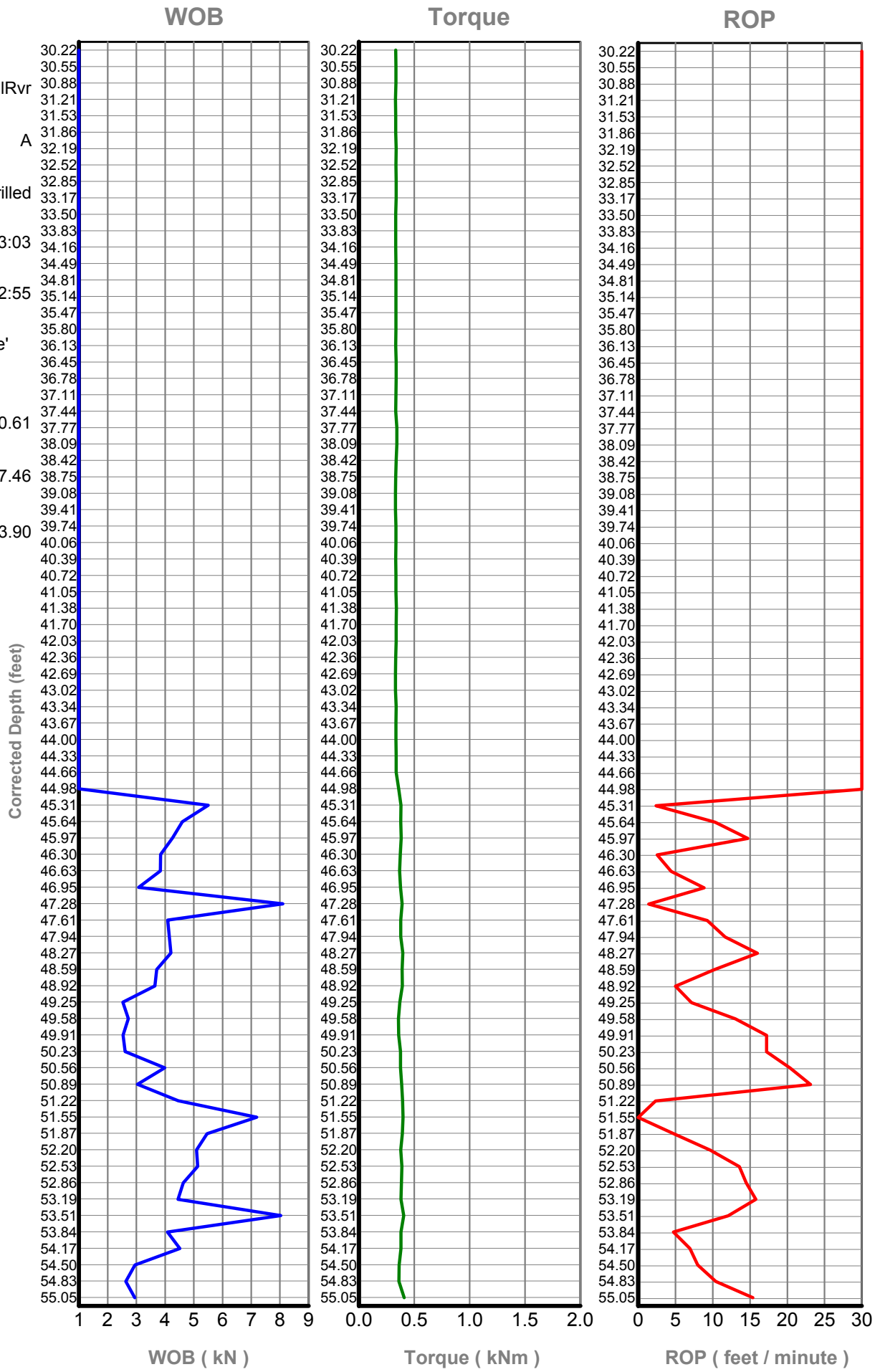
**End Date:**
4/24/2015 3:32:55

**Operator Note:**
'3.9 3.7 b Auto Complete'

**Northing:**
366,870.61

**Easting:**
251,537.46

**Tide (feet):**
3.90



## Hole: H376 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 3:08:54 | 33.79 | 30.19 | 564 | 1.96 | 0.17 | 30.8 |
| 4/24/2015 3:08:54 | 34.12 | 30.52 | 558 | 1.97 | 0.17 | 30.5 |
| 4/24/2015 3:08:55 | 34.45 | 30.85 | 567 | 2.00 | 0.17 | 31.0 |
| 4/24/2015 3:08:56 | 34.78 | 31.18 | 567 | 1.97 | 0.17 | 31.0 |
| 4/24/2015 3:08:57 | 35.11 | 31.51 | 567 | 1.98 | 0.17 | 31.0 |
| 4/24/2015 3:08:57 | 35.43 | 31.83 | 574 | 2.00 | 0.16 | 31.4 |
| 4/24/2015 3:08:58 | 35.76 | 32.16 | 555 | 1.99 | 0.16 | 30.3 |
| 4/24/2015 3:08:59 | 36.09 | 32.49 | 557 | 2.00 | 0.17 | 30.5 |
| 4/24/2015 3:08:59 | 36.42 | 32.82 | 557 | 1.97 | 0.17 | 30.5 |
| 4/24/2015 3:09:00 | 36.75 | 33.15 | 560 | 1.99 | 0.17 | 30.6 |
| 4/24/2015 3:09:00 | 37.07 | 33.47 | 560 | 1.96 | 0.17 | 30.6 |
| 4/24/2015 3:09:01 | 37.40 | 33.80 | 575 | 1.97 | 0.16 | 31.5 |
| 4/24/2015 3:09:02 | 37.73 | 34.13 | 569 | 2.00 | 0.17 | 31.1 |
| 4/24/2015 3:09:02 | 38.06 | 34.46 | 567 | 1.95 | 0.17 | 31.0 |
| 4/24/2015 3:09:03 | 38.39 | 34.79 | 567 | 1.99 | 0.16 | 31.0 |
| 4/24/2015 3:09:03 | 38.71 | 35.11 | 563 | 1.96 | 0.16 | 30.8 |
| 4/24/2015 3:09:04 | 39.04 | 35.44 | 567 | 1.99 | 0.16 | 31.0 |
| 4/24/2015 3:09:05 | 39.37 | 35.77 | 564 | 1.99 | 0.16 | 30.8 |
| 4/24/2015 3:09:05 | 39.70 | 36.10 | 564 | 1.97 | 0.16 | 30.8 |
| 4/24/2015 3:09:06 | 40.03 | 36.43 | 570 | 2.00 | 0.17 | 31.2 |
| 4/24/2015 3:09:07 | 40.35 | 36.75 | 567 | 1.96 | 0.17 | 31.0 |
| 4/24/2015 3:09:08 | 40.68 | 37.08 | 563 | 2.00 | 0.17 | 30.8 |
| 4/24/2015 3:09:08 | 41.01 | 37.41 | 567 | 1.99 | 0.17 | 31.0 |
| 4/24/2015 3:09:09 | 41.34 | 37.74 | 567 | 1.97 | 0.17 | 31.0 |
| 4/24/2015 3:09:09 | 41.67 | 38.07 | 567 | 2.00 | 0.17 | 31.0 |
| 4/24/2015 3:09:10 | 41.99 | 38.39 | 567 | 1.96 | 0.17 | 31.0 |
| 4/24/2015 3:09:11 | 42.32 | 38.72 | 567 | 2.01 | 0.16 | 31.0 |
| 4/24/2015 3:09:11 | 42.65 | 39.05 | 557 | 1.98 | 0.17 | 30.5 |
| 4/24/2015 3:09:12 | 42.98 | 39.38 | 564 | 2.00 | 0.17 | 30.8 |
| 4/24/2015 3:09:12 | 43.31 | 39.71 | 564 | 1.97 | 0.17 | 30.8 |
| 4/24/2015 3:09:13 | 43.64 | 40.04 | 561 | 1.98 | 0.16 | 30.7 |
| 4/24/2015 3:09:14 | 43.96 | 40.36 | 564 | 1.98 | 0.17 | 30.9 |
| 4/24/2015 3:09:14 | 44.29 | 40.69 | 560 | 1.98 | 0.17 | 30.6 |
| 4/24/2015 3:09:15 | 44.62 | 41.02 | 564 | 1.98 | 0.17 | 30.8 |
| 4/24/2015 3:09:15 | 44.95 | 41.35 | 561 | 2.00 | 0.17 | 30.7 |
| 4/24/2015 3:09:16 | 45.28 | 41.68 | 564 | 1.98 | 0.17 | 30.9 |
| 4/24/2015 3:09:17 | 45.60 | 42.00 | 565 | 1.79 | 0.17 | 30.9 |
| 4/24/2015 3:09:18 | 45.93 | 42.33 | 559 | 2.00 | 0.17 | 30.5 |
| 4/24/2015 3:09:18 | 46.26 | 42.66 | 558 | 1.98 | 0.17 | 30.5 |
| 4/24/2015 3:09:19 | 46.59 | 42.99 | 561 | 1.99 | 0.17 | 30.7 |
| 4/24/2015 3:09:20 | 46.92 | 43.32 | 561 | 1.98 | 0.17 | 30.7 |
| 4/24/2015 3:09:20 | 47.24 | 43.64 | 564 | 1.99 | 0.16 | 30.8 |
| 4/24/2015 3:09:21 | 47.57 | 43.97 | 564 | 2.00 | 0.17 | 30.8 |
| 4/24/2015 3:09:21 | 47.90 | 44.30 | 564 | 1.97 | 0.17 | 30.8 |
| 4/24/2015 3:09:22 | 48.23 | 44.63 | 557 | 1.98 | 0.17 | 30.5 |
| 4/24/2015 3:09:23 | 48.56 | 44.96 | 561 | 1.99 | 0.17 | 30.7 |
| 4/24/2015 3:09:23 | 48.88 | 45.28 | 561 | 1.99 | 0.17 | 30.7 |
| 4/24/2015 3:09:46 | 49.21 | 45.61 | 0 | 1.98 | 1.19 | 0.0 |
| 4/24/2015 3:09:53 | 49.54 | 45.94 | 0 | 2.02 | 1.49 | 0.0 |
| 4/24/2015 3:10:01 | 49.87 | 46.27 | 0 | 2.03 | 1.13 | 0.0 |
| 4/24/2015 3:10:17 | 50.20 | 46.60 | 17 | 1.99 | 1.20 | 1.0 |
| 4/24/2015 3:10:18 | 50.53 | 46.93 | 172 | 1.98 | 1.13 | 9.4 |
| 4/24/2015 3:10:26 | 50.85 | 47.25 | 76 | 1.97 | 1.23 | 4.1 |
| 4/24/2015 3:10:48 | 51.18 | 47.58 | 65 | 2.00 | 1.24 | 3.5 |
| 4/24/2015 3:10:49 | 51.51 | 47.91 | 225 | 2.01 | 1.25 | 12.3 |
| 4/24/2015 3:10:55 | 51.84 | 48.24 | 37 | 2.00 | 1.31 | 2.0 |
| 4/24/2015 3:11:25 | 52.17 | 48.57 | 0 | 1.99 | 1.17 | 0.0 |
| 4/24/2015 3:11:28 | 52.49 | 48.89 | 124 | 2.00 | 1.40 | 6.8 |
| 4/24/2015 3:11:29 | 52.82 | 49.22 | 188 | 1.96 | 1.21 | 10.3 |
| 4/24/2015 3:11:31 | 53.15 | 49.55 | 229 | 2.02 | 1.20 | 12.5 |
| 4/24/2015 3:11:40 | 53.48 | 49.88 | 78 | 1.98 | 1.11 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 3:11:41 | 53.81 | 50.21 | 226 | 2.00 | 1.07 | 12.3 |
| 4/24/2015 | 3:11:46 | 54.13 | 50.53 | 79 | 1.99 | 1.09 | 4.3 |
| 4/24/2015 | 3:12:05 | 54.46 | 50.86 | 34 | 2.00 | 1.15 | 1.9 |
| 4/24/2015 | 3:12:07 | 54.79 | 51.19 | 187 | 1.98 | 1.14 | 10.2 |
| 4/24/2015 | 3:12:08 | 55.12 | 51.52 | 269 | 2.00 | 1.12 | 14.7 |
| 4/24/2015 | 3:12:31 | 55.45 | 51.85 | 59 | 2.00 | 1.22 | 3.2 |
| 4/24/2015 | 3:12:33 | 55.77 | 52.17 | 180 | 2.01 | 1.20 | 9.8 |
| 4/24/2015 | 3:12:39 | 56.10 | 52.50 | 57 | 2.00 | 1.20 | 3.1 |
| 4/24/2015 | 3:12:41 | 56.43 | 52.83 | 184 | 2.00 | 1.12 | 10.1 |
| 4/24/2015 | 3:12:42 | 56.76 | 53.16 | 246 | 1.98 | 1.20 | 13.4 |
| 4/24/2015 | 3:12:53 | 57.09 | 53.49 | 0 | 2.00 | 1.15 | 0.0 |
| 4/24/2015 | 3:12:55 | 57.41 | 53.81 | 154 | 2.00 | 1.27 | 8.4 |
| 4/24/2015 | 3:12:59 | 57.74 | 54.14 | 47 | 2.01 | 1.29 | 2.6 |
| 4/24/2015 | 3:13:02 | 58.07 | 54.47 | 128 | 2.00 | 1.18 | 7.0 |
| 4/24/2015 | 3:13:02 | 58.22 | 54.62 | 154 | 1.92 | 1.18 | 8.4 |

## H376 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 3:05:17

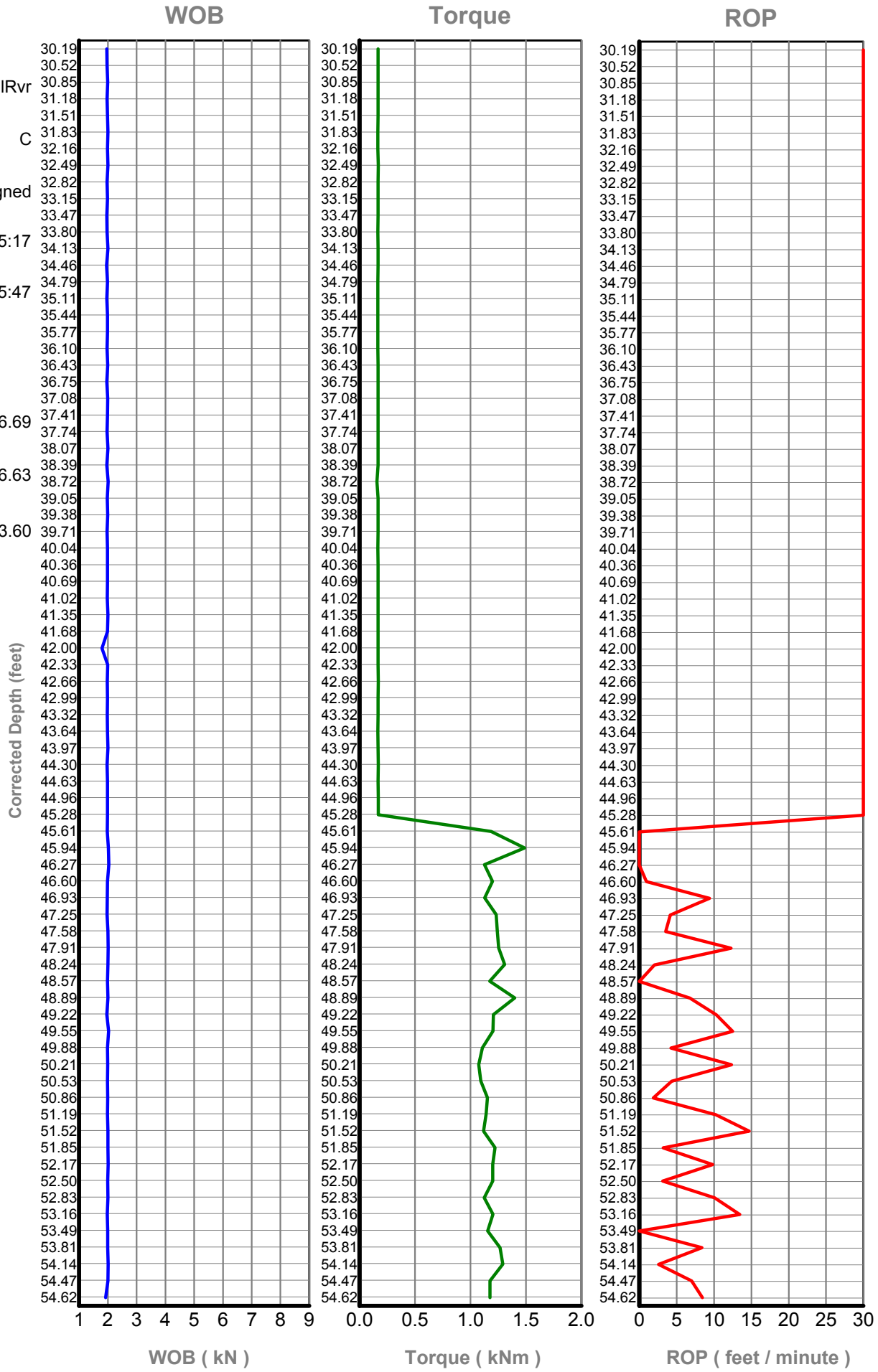
**End Date:**
4/24/2015 3:15:47

**Operator Note:**
'3.6 Auto Complete'

**Northing:**
366,916.69

**Easting:**
251,596.63

**Tide (feet):**
3.60



## Hole: H377 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:48:54 | 34.78 | 30.08 | 612 | 1.98 | 0.31 | 33.5 |
| 4/23/2015 15:48:55 | 35.11 | 30.41 | 618 | 1.98 | 0.31 | 33.8 |
| 4/23/2015 15:48:55 | 35.43 | 30.73 | 616 | 1.97 | 0.31 | 33.7 |
| 4/23/2015 15:48:56 | 35.76 | 31.06 | 619 | 1.97 | 0.31 | 33.8 |
| 4/23/2015 15:48:57 | 36.09 | 31.39 | 619 | 1.97 | 0.31 | 33.8 |
| 4/23/2015 15:48:57 | 36.42 | 31.72 | 621 | 1.98 | 0.31 | 34.0 |
| 4/23/2015 15:48:58 | 36.75 | 32.05 | 612 | 1.98 | 0.31 | 33.5 |
| 4/23/2015 15:48:58 | 37.07 | 32.37 | 619 | 1.97 | 0.31 | 33.9 |
| 4/23/2015 15:48:59 | 37.40 | 32.70 | 615 | 1.99 | 0.31 | 33.7 |
| 4/23/2015 15:49:00 | 37.73 | 33.03 | 616 | 1.99 | 0.31 | 33.7 |
| 4/23/2015 15:49:00 | 38.06 | 33.36 | 623 | 1.98 | 0.31 | 34.1 |
| 4/23/2015 15:49:01 | 38.39 | 33.69 | 616 | 1.96 | 0.31 | 33.7 |
| 4/23/2015 15:49:01 | 38.71 | 34.01 | 622 | 1.98 | 0.31 | 34.0 |
| 4/23/2015 15:49:02 | 39.04 | 34.34 | 616 | 1.97 | 0.31 | 33.7 |
| 4/23/2015 15:49:02 | 39.37 | 34.67 | 619 | 1.98 | 0.31 | 33.8 |
| 4/23/2015 15:49:03 | 39.70 | 35.00 | 616 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 15:49:03 | 40.03 | 35.33 | 619 | 1.98 | 0.31 | 33.8 |
| 4/23/2015 15:49:04 | 40.35 | 35.65 | 609 | 1.97 | 0.32 | 33.3 |
| 4/23/2015 15:49:05 | 40.68 | 35.98 | 613 | 1.97 | 0.31 | 33.5 |
| 4/23/2015 15:49:05 | 41.01 | 36.31 | 616 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 15:49:06 | 41.34 | 36.64 | 613 | 1.96 | 0.31 | 33.5 |
| 4/23/2015 15:49:07 | 41.67 | 36.97 | 617 | 1.96 | 0.31 | 33.7 |
| 4/23/2015 15:49:07 | 41.99 | 37.29 | 606 | 1.96 | 0.31 | 33.1 |
| 4/23/2015 15:49:08 | 42.32 | 37.62 | 610 | 1.98 | 0.31 | 33.3 |
| 4/23/2015 15:49:08 | 42.65 | 37.95 | 603 | 1.97 | 0.31 | 33.0 |
| 4/23/2015 15:49:09 | 42.98 | 38.28 | 603 | 1.98 | 0.31 | 33.0 |
| 4/23/2015 15:49:10 | 43.31 | 38.61 | 608 | 1.96 | 0.31 | 33.2 |
| 4/23/2015 15:49:10 | 43.64 | 38.94 | 612 | 1.98 | 0.31 | 33.5 |
| 4/23/2015 15:49:11 | 43.96 | 39.26 | 608 | 1.98 | 0.31 | 33.3 |
| 4/23/2015 15:49:11 | 44.29 | 39.59 | 619 | 1.97 | 0.31 | 33.8 |
| 4/23/2015 15:49:12 | 44.62 | 39.92 | 616 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 15:49:12 | 44.95 | 40.25 | 613 | 1.98 | 0.31 | 33.5 |
| 4/23/2015 15:49:13 | 45.28 | 40.58 | 606 | 1.98 | 0.31 | 33.1 |
| 4/23/2015 15:49:13 | 45.60 | 40.90 | 614 | 1.98 | 0.31 | 33.6 |
| 4/23/2015 15:49:14 | 45.93 | 41.23 | 611 | 1.97 | 0.31 | 33.4 |
| 4/23/2015 15:49:15 | 46.26 | 41.56 | 611 | 1.98 | 0.31 | 33.4 |
| 4/23/2015 15:49:15 | 46.59 | 41.89 | 617 | 1.99 | 0.31 | 33.8 |
| 4/23/2015 15:49:16 | 46.92 | 42.22 | 609 | 1.96 | 0.31 | 33.3 |
| 4/23/2015 15:49:16 | 47.24 | 42.54 | 610 | 1.96 | 0.31 | 33.4 |
| 4/23/2015 15:49:17 | 47.57 | 42.87 | 613 | 1.99 | 0.31 | 33.5 |
| 4/23/2015 15:49:18 | 47.90 | 43.20 | 606 | 1.95 | 0.31 | 33.1 |
| 4/23/2015 15:49:35 | 48.23 | 43.53 | 0 | 1.96 | 1.13 | 0.0 |
| 4/23/2015 15:49:36 | 48.56 | 43.86 | 109 | 1.99 | 1.35 | 6.0 |
| 4/23/2015 15:49:40 | 48.88 | 44.18 | 72 | 1.97 | 1.26 | 3.9 |
| 4/23/2015 15:49:42 | 49.21 | 44.51 | 214 | 1.99 | 1.22 | 11.7 |
| 4/23/2015 15:49:45 | 49.54 | 44.84 | 104 | 1.98 | 1.24 | 5.7 |
| 4/23/2015 15:49:57 | 49.87 | 45.17 | 29 | 1.98 | 1.23 | 1.6 |
| 4/23/2015 15:50:09 | 50.20 | 45.50 | 32 | 1.98 | 1.15 | 1.7 |
| 4/23/2015 15:50:18 | 50.53 | 45.83 | 46 | 1.98 | 1.18 | 2.5 |
| 4/23/2015 15:50:27 | 50.85 | 46.15 | 29 | 1.98 | 1.09 | 1.6 |
| 4/23/2015 15:50:38 | 51.18 | 46.48 | 35 | 1.96 | 1.11 | 1.9 |
| 4/23/2015 15:50:45 | 51.51 | 46.81 | 67 | 1.99 | 1.13 | 3.6 |
| 4/23/2015 15:50:55 | 51.84 | 47.14 | 32 | 2.00 | 1.23 | 1.7 |
| 4/23/2015 15:51:05 | 52.17 | 47.47 | 37 | 1.99 | 1.18 | 2.0 |
| 4/23/2015 15:51:15 | 52.49 | 47.79 | 35 | 1.99 | 1.11 | 1.9 |
| 4/23/2015 15:51:25 | 52.82 | 48.12 | 30 | 2.00 | 1.08 | 1.6 |
| 4/23/2015 15:51:29 | 52.94 | 48.24 | 32 | 1.99 | 1.27 | 1.7 |

## H377 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:46:59

**End Date:**
4/23/2015 15:53:20

**Operator Note:**
'4.7 4.4 c Auto Complete'

**Northing:**
366,974.67

**Easting:**
251,659.63

**Tide (feet):**
4.70



## Hole: H378 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:55:02 | 34.78 | 30.08 | 948 | 0.34 | 0.32 | 51.8 |
| 4/23/2015 15:55:03 | 35.11 | 30.41 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:55:03 | 35.43 | 30.73 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:55:03 | 35.76 | 31.06 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:55:04 | 36.09 | 31.39 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:55:04 | 36.42 | 31.72 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 15:55:05 | 36.75 | 32.05 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 15:55:05 | 37.07 | 32.37 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:55:05 | 37.40 | 32.70 | 928 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:06 | 37.73 | 33.03 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 15:55:06 | 38.06 | 33.36 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 15:55:07 | 38.39 | 33.69 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 15:55:07 | 38.71 | 34.01 | 913 | 0.33 | 0.32 | 49.9 |
| 4/23/2015 15:55:08 | 39.04 | 34.34 | 906 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 15:55:08 | 39.37 | 34.67 | 906 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 15:55:08 | 39.70 | 35.00 | 906 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 15:55:09 | 40.03 | 35.33 | 928 | 0.38 | 0.32 | 50.7 |
| 4/23/2015 15:55:09 | 40.35 | 35.65 | 928 | 0.38 | 0.32 | 50.7 |
| 4/23/2015 15:55:09 | 40.68 | 35.98 | 930 | 0.39 | 0.32 | 50.9 |
| 4/23/2015 15:55:10 | 41.01 | 36.31 | 925 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 15:55:10 | 41.34 | 36.64 | 925 | 0.32 | 0.32 | 50.6 |
| 4/23/2015 15:55:11 | 41.67 | 36.97 | 925 | 0.32 | 0.32 | 50.6 |
| 4/23/2015 15:55:11 | 41.99 | 37.29 | 932 | 0.37 | 0.31 | 51.0 |
| 4/23/2015 15:55:11 | 42.32 | 37.62 | 897 | 0.34 | 0.32 | 49.0 |
| 4/23/2015 15:55:12 | 42.65 | 37.95 | 897 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 15:55:12 | 42.98 | 38.28 | 897 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 15:55:12 | 43.31 | 38.61 | 906 | 0.34 | 0.32 | 49.5 |
| 4/23/2015 15:55:13 | 43.64 | 38.94 | 906 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 15:55:13 | 43.96 | 39.26 | 926 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:14 | 44.29 | 39.59 | 926 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:14 | 44.62 | 39.92 | 926 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:14 | 44.95 | 40.25 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:15 | 45.28 | 40.58 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:15 | 45.60 | 40.90 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:55:15 | 45.93 | 41.23 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 15:55:16 | 46.26 | 41.56 | 930 | 0.31 | 0.32 | 50.8 |
| 4/23/2015 15:55:16 | 46.59 | 41.89 | 930 | 0.31 | 0.32 | 50.8 |
| 4/23/2015 15:55:16 | 46.92 | 42.22 | 930 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:55:17 | 47.24 | 42.54 | 939 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 15:55:17 | 47.57 | 42.87 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 15:55:18 | 47.90 | 43.20 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 15:55:18 | 48.23 | 43.53 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 15:55:19 | 48.56 | 43.86 | 918 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 15:55:19 | 48.88 | 44.18 | 918 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 15:55:19 | 49.21 | 44.51 | 918 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 15:55:20 | 49.54 | 44.84 | 910 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 15:55:20 | 49.87 | 45.17 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:55:21 | 50.20 | 45.50 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:55:21 | 50.53 | 45.83 | 916 | 0.31 | 0.36 | 50.1 |
| 4/23/2015 15:55:33 | 50.85 | 46.15 | 30 | 5.93 | 0.41 | 1.6 |
| 4/23/2015 15:55:36 | 51.18 | 46.48 | 52 | 4.30 | 0.37 | 2.8 |
| 4/23/2015 15:55:37 | 51.51 | 46.81 | 174 | 3.56 | 0.37 | 9.5 |
| 4/23/2015 15:55:38 | 51.84 | 47.14 | 232 | 3.40 | 0.37 | 12.7 |
| 4/23/2015 15:55:39 | 52.17 | 47.47 | 290 | 4.25 | 0.38 | 15.8 |
| 4/23/2015 15:55:40 | 52.49 | 47.79 | 366 | 3.52 | 0.36 | 20.0 |
| 4/23/2015 15:55:40 | 52.82 | 48.12 | 399 | 2.98 | 0.36 | 21.8 |
| 4/23/2015 15:55:54 | 53.15 | 48.45 | 65 | 3.10 | 0.36 | 3.5 |
| 4/23/2015 15:55:55 | 53.48 | 48.78 | 262 | 2.93 | 0.37 | 14.3 |
| 4/23/2015 15:55:55 | 53.81 | 49.11 | 351 | 2.92 | 0.37 | 19.2 |
| 4/23/2015 15:55:56 | 54.13 | 49.43 | 421 | 3.40 | 0.38 | 23.0 |
| 4/23/2015 15:56:00 | 54.46 | 49.76 | 150 | 4.02 | 0.40 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:56:05 | 54.79 | 50.09 | 62 | 3.67 | 0.39 | 3.4 |
| 4/23/2015 | 15:56:10 | 55.12 | 50.42 | 69 | 3.22 | 0.39 | 3.7 |
| 4/23/2015 | 15:56:14 | 55.45 | 50.75 | 98 | 3.73 | 0.39 | 5.4 |
| 4/23/2015 | 15:56:17 | 55.77 | 51.07 | 121 | 3.43 | 0.39 | 6.6 |
| 4/23/2015 | 15:56:20 | 56.10 | 51.40 | 118 | 3.74 | 0.40 | 6.5 |
| 4/23/2015 | 15:56:24 | 56.43 | 51.73 | 92 | 3.53 | 0.40 | 5.0 |
| 4/23/2015 | 15:56:28 | 56.76 | 52.06 | 72 | 3.98 | 0.39 | 3.9 |
| 4/23/2015 | 15:56:34 | 57.09 | 52.39 | 62 | 3.78 | 0.40 | 3.4 |
| 4/23/2015 | 15:56:40 | 57.41 | 52.71 | 66 | 4.18 | 0.39 | 3.6 |
| 4/23/2015 | 15:56:44 | 57.72 | 53.02 | 70 | 3.84 | 0.40 | 3.8 |

## H378 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:52:46

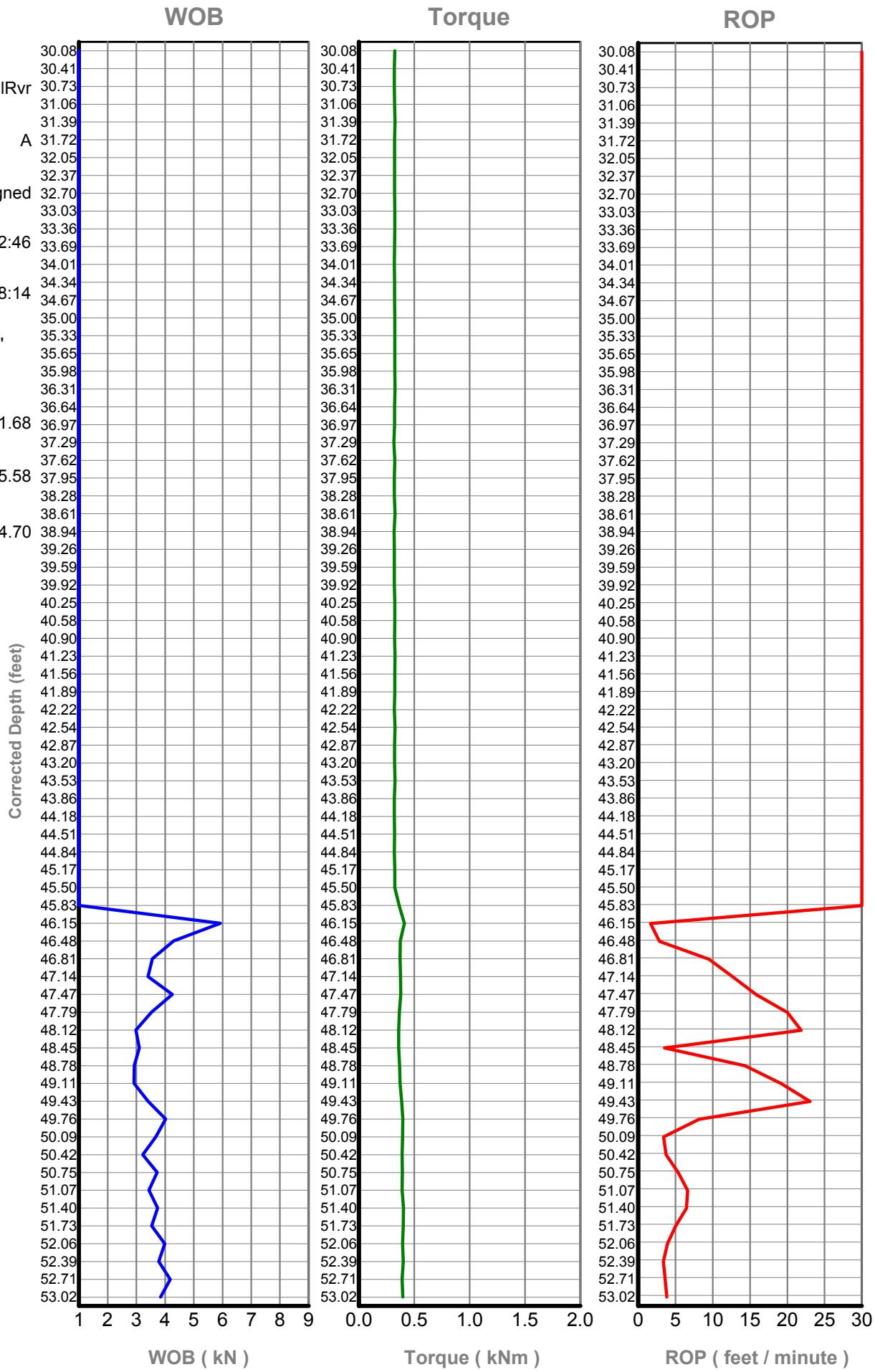
**End Date:**
4/23/2015 15:58:14

**Operator Note:**
'4.7 4.5b Auto Complete'

**Northing:**
367,011.68

**Easting:**
251,705.58

**Tide (feet):**
4.70



## Hole: H379 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:49:10 | 34.78 | 30.08 | 985 | 0.33 | 0.32 | 53.9 |
| 4/23/2015 15:49:11 | 35.11 | 30.41 | 961 | 0.37 | 0.33 | 52.5 |
| 4/23/2015 15:49:11 | 35.43 | 30.73 | 945 | 0.34 | 0.33 | 51.7 |
| 4/23/2015 15:49:12 | 35.76 | 31.06 | 945 | 0.34 | 0.33 | 51.7 |
| 4/23/2015 15:49:12 | 36.09 | 31.39 | 943 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 15:49:12 | 36.42 | 31.72 | 948 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 15:49:13 | 36.75 | 32.05 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:49:13 | 37.07 | 32.37 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 15:49:13 | 37.40 | 32.70 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 15:49:14 | 37.73 | 33.03 | 939 | 0.33 | 0.33 | 51.4 |
| 4/23/2015 15:49:15 | 38.06 | 33.36 | 939 | 0.33 | 0.33 | 51.4 |
| 4/23/2015 15:49:15 | 38.39 | 33.69 | 960 | 0.33 | 0.33 | 52.5 |
| 4/23/2015 15:49:15 | 38.71 | 34.01 | 960 | 0.41 | 0.32 | 52.5 |
| 4/23/2015 15:49:16 | 39.04 | 34.34 | 963 | 0.37 | 0.32 | 52.6 |
| 4/23/2015 15:49:16 | 39.37 | 34.67 | 963 | 0.37 | 0.32 | 52.6 |
| 4/23/2015 15:49:16 | 39.70 | 35.00 | 963 | 0.35 | 0.32 | 52.6 |
| 4/23/2015 15:49:17 | 40.03 | 35.33 | 968 | 0.35 | 0.32 | 53.0 |
| 4/23/2015 15:49:17 | 40.35 | 35.65 | 968 | 0.35 | 0.32 | 53.0 |
| 4/23/2015 15:49:17 | 40.68 | 35.98 | 960 | 0.32 | 0.32 | 52.5 |
| 4/23/2015 15:49:18 | 41.01 | 36.31 | 954 | 0.33 | 0.33 | 52.2 |
| 4/23/2015 15:49:18 | 41.34 | 36.64 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 15:49:19 | 41.67 | 36.97 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 15:49:19 | 41.99 | 37.29 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:49:19 | 42.32 | 37.62 | 954 | 0.33 | 0.33 | 52.2 |
| 4/23/2015 15:49:20 | 42.65 | 37.95 | 954 | 0.33 | 0.33 | 52.2 |
| 4/23/2015 15:49:20 | 42.98 | 38.28 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:49:20 | 43.31 | 38.61 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:49:21 | 43.64 | 38.94 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 15:49:21 | 43.96 | 39.26 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 15:49:21 | 44.29 | 39.59 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:49:22 | 44.62 | 39.92 | 968 | 0.33 | 0.33 | 52.9 |
| 4/23/2015 15:49:22 | 44.95 | 40.25 | 968 | 0.33 | 0.33 | 52.9 |
| 4/23/2015 15:49:22 | 45.28 | 40.58 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:49:23 | 45.60 | 40.90 | 971 | 0.33 | 0.32 | 53.1 |
| 4/23/2015 15:49:23 | 45.93 | 41.23 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:49:24 | 46.26 | 41.56 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:49:24 | 46.59 | 41.89 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:49:25 | 46.92 | 42.22 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:49:25 | 47.24 | 42.54 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:49:25 | 47.57 | 42.87 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:49:26 | 47.90 | 43.20 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:49:26 | 48.23 | 43.53 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 15:49:27 | 48.56 | 43.86 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 15:49:27 | 48.88 | 44.18 | 944 | 0.33 | 0.33 | 51.6 |
| 4/23/2015 15:49:27 | 49.21 | 44.51 | 944 | 0.33 | 0.33 | 51.6 |
| 4/23/2015 15:49:28 | 49.54 | 44.84 | 944 | 0.33 | 0.33 | 51.6 |
| 4/23/2015 15:49:28 | 49.87 | 45.17 | 957 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 15:49:28 | 50.20 | 45.50 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:49:29 | 50.53 | 45.83 | 942 | 0.32 | 0.36 | 51.5 |
| 4/23/2015 15:49:35 | 50.85 | 46.15 | 0 | 3.42 | 0.35 | 0.0 |
| 4/23/2015 15:49:38 | 51.18 | 46.48 | 68 | 4.94 | 0.40 | 3.7 |
| 4/23/2015 15:49:41 | 51.51 | 46.81 | 151 | 3.75 | 0.37 | 8.3 |
| 4/23/2015 15:49:41 | 51.84 | 47.14 | 209 | 3.72 | 0.37 | 11.4 |
| 4/23/2015 15:49:45 | 52.17 | 47.47 | 165 | 4.40 | 0.36 | 9.0 |
| 4/23/2015 15:49:47 | 52.49 | 47.79 | 65 | 3.50 | 0.36 | 3.6 |
| 4/23/2015 15:49:48 | 52.82 | 48.12 | 118 | 3.95 | 0.37 | 6.5 |
| 4/23/2015 15:49:49 | 53.15 | 48.45 | 201 | 3.20 | 0.37 | 11.0 |
| 4/23/2015 15:49:49 | 53.48 | 48.78 | 271 | 4.32 | 0.37 | 14.8 |
| 4/23/2015 15:50:01 | 53.81 | 49.11 | 42 | 3.20 | 0.36 | 2.3 |
| 4/23/2015 15:50:02 | 54.13 | 49.43 | 242 | 3.02 | 0.40 | 13.2 |
| 4/23/2015 15:50:07 | 54.46 | 49.76 | 55 | 3.28 | 0.40 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:50:14 | 54.79 | 50.09 | 53 | 3.18 | 0.40 | 2.9 |
| 4/23/2015 | 15:50:22 | 55.12 | 50.42 | 52 | 3.45 | 0.40 | 2.8 |
| 4/23/2015 | 15:50:28 | 55.42 | 50.72 | 55 | 3.34 | 0.40 | 3.0 |

## H379 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:45:32

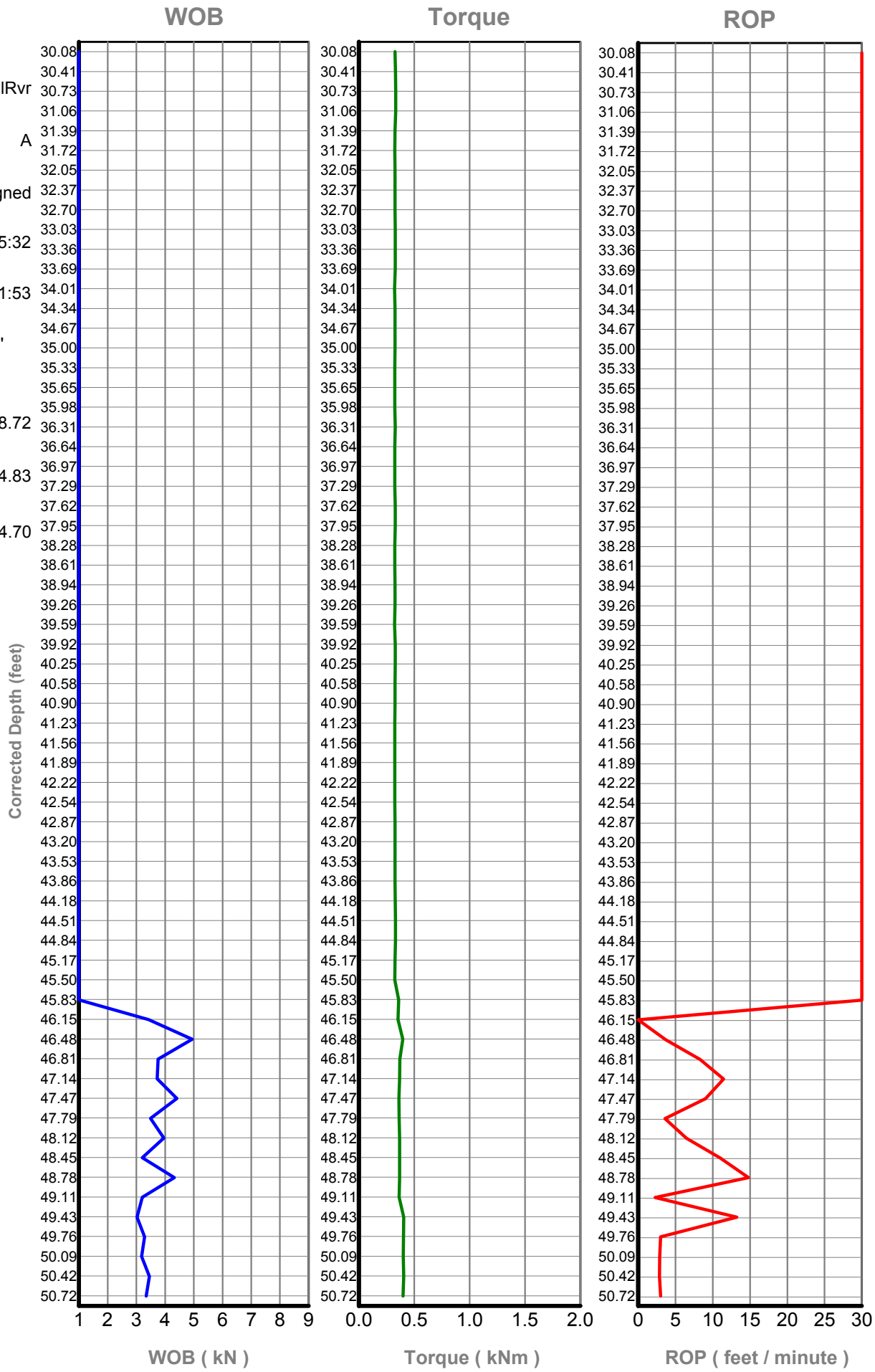
**End Date:**
4/23/2015 15:51:53

**Operator Note:**
'4.7 4.4b Auto Complete'

**Northing:**
367,058.72

**Easting:**
251,764.83

**Tide (feet):**
4.70



## Hole: H38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:12:45 | 30.51 | 30.31 | 798 | 0.41 | 0.34 | 43.6 |
| 4/23/2015 23:12:45 | 30.84 | 30.64 | 798 | 0.41 | 0.34 | 43.6 |
| 4/23/2015 23:12:45 | 31.17 | 30.97 | 795 | 0.41 | 0.34 | 43.5 |
| 4/23/2015 23:12:46 | 31.50 | 31.30 | 804 | 0.41 | 0.34 | 44.0 |
| 4/23/2015 23:12:46 | 31.82 | 31.62 | 801 | 0.41 | 0.33 | 43.8 |
| 4/23/2015 23:12:47 | 32.15 | 31.95 | 806 | 0.41 | 0.34 | 44.1 |
| 4/23/2015 23:12:47 | 32.48 | 32.28 | 789 | 0.41 | 0.33 | 43.2 |
| 4/23/2015 23:12:48 | 32.81 | 32.61 | 795 | 0.41 | 0.34 | 43.5 |
| 4/23/2015 23:12:48 | 33.14 | 32.94 | 790 | 0.41 | 0.34 | 43.2 |
| 4/23/2015 23:12:49 | 33.46 | 33.26 | 790 | 0.41 | 0.34 | 43.2 |
| 4/23/2015 23:12:49 | 33.79 | 33.59 | 798 | 0.41 | 0.34 | 43.6 |
| 4/23/2015 23:12:49 | 34.12 | 33.92 | 787 | 0.41 | 0.34 | 43.0 |
| 4/23/2015 23:12:50 | 34.45 | 34.25 | 792 | 0.41 | 0.34 | 43.3 |
| 4/23/2015 23:12:50 | 34.78 | 34.58 | 792 | 0.41 | 0.34 | 43.3 |
| 4/23/2015 23:12:51 | 35.11 | 34.91 | 800 | 0.41 | 0.34 | 43.7 |
| 4/23/2015 23:12:52 | 35.43 | 35.23 | 795 | 0.41 | 0.34 | 43.5 |
| 4/23/2015 23:12:52 | 35.76 | 35.56 | 795 | 0.41 | 0.34 | 43.5 |
| 4/23/2015 23:12:52 | 36.09 | 35.89 | 793 | 0.41 | 0.34 | 43.4 |
| 4/23/2015 23:12:53 | 36.42 | 36.22 | 802 | 0.41 | 0.34 | 43.9 |
| 4/23/2015 23:12:53 | 36.75 | 36.55 | 807 | 0.41 | 0.34 | 44.1 |
| 4/23/2015 23:12:54 | 37.07 | 36.87 | 807 | 0.41 | 0.33 | 44.1 |
| 4/23/2015 23:12:54 | 37.40 | 37.20 | 810 | 0.41 | 0.33 | 44.3 |
| 4/23/2015 23:12:55 | 37.73 | 37.53 | 813 | 0.41 | 0.34 | 44.4 |
| 4/23/2015 23:12:55 | 38.06 | 37.86 | 813 | 0.41 | 0.34 | 44.4 |
| 4/23/2015 23:12:55 | 38.39 | 38.19 | 818 | 0.41 | 0.34 | 44.7 |
| 4/23/2015 23:12:56 | 38.71 | 38.51 | 810 | 0.41 | 0.34 | 44.3 |
| 4/23/2015 23:12:56 | 39.04 | 38.84 | 807 | 0.41 | 0.34 | 44.1 |
| 4/23/2015 23:12:57 | 39.37 | 39.17 | 807 | 0.41 | 0.34 | 44.1 |
| 4/23/2015 23:12:57 | 39.70 | 39.50 | 812 | 0.41 | 0.33 | 44.4 |
| 4/23/2015 23:12:58 | 40.03 | 39.83 | 812 | 0.41 | 0.33 | 44.4 |
| 4/23/2015 23:12:58 | 40.35 | 40.15 | 791 | 0.39 | 0.34 | 43.3 |
| 4/23/2015 23:12:59 | 40.68 | 40.48 | 747 | 0.40 | 0.36 | 40.9 |
| 4/23/2015 23:12:59 | 41.01 | 40.81 | 699 | 0.39 | 0.36 | 38.2 |
| 4/23/2015 23:13:00 | 41.34 | 41.14 | 642 | 0.40 | 0.37 | 35.1 |
| 4/23/2015 23:13:19 | 41.67 | 41.47 | 0 | 3.33 | 0.35 | 0.0 |
| 4/23/2015 23:13:20 | 41.99 | 41.79 | 124 | 3.20 | 0.38 | 6.8 |
| 4/23/2015 23:13:21 | 42.32 | 42.12 | 230 | 4.38 | 0.40 | 12.6 |
| 4/23/2015 23:13:28 | 42.65 | 42.45 | 70 | 4.17 | 0.40 | 3.8 |
| 4/23/2015 23:13:32 | 42.98 | 42.78 | 81 | 4.39 | 0.40 | 4.4 |
| 4/23/2015 23:13:38 | 43.31 | 43.11 | 61 | 4.30 | 0.40 | 3.3 |
| 4/23/2015 23:13:43 | 43.64 | 43.44 | 70 | 4.17 | 0.40 | 3.8 |
| 4/23/2015 23:13:49 | 43.96 | 43.76 | 56 | 4.13 | 0.40 | 3.1 |
| 4/23/2015 23:14:37 | 44.24 | 44.04 | 0 | 4.17 | 0.38 | 0.0 |

## H38 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:10:48

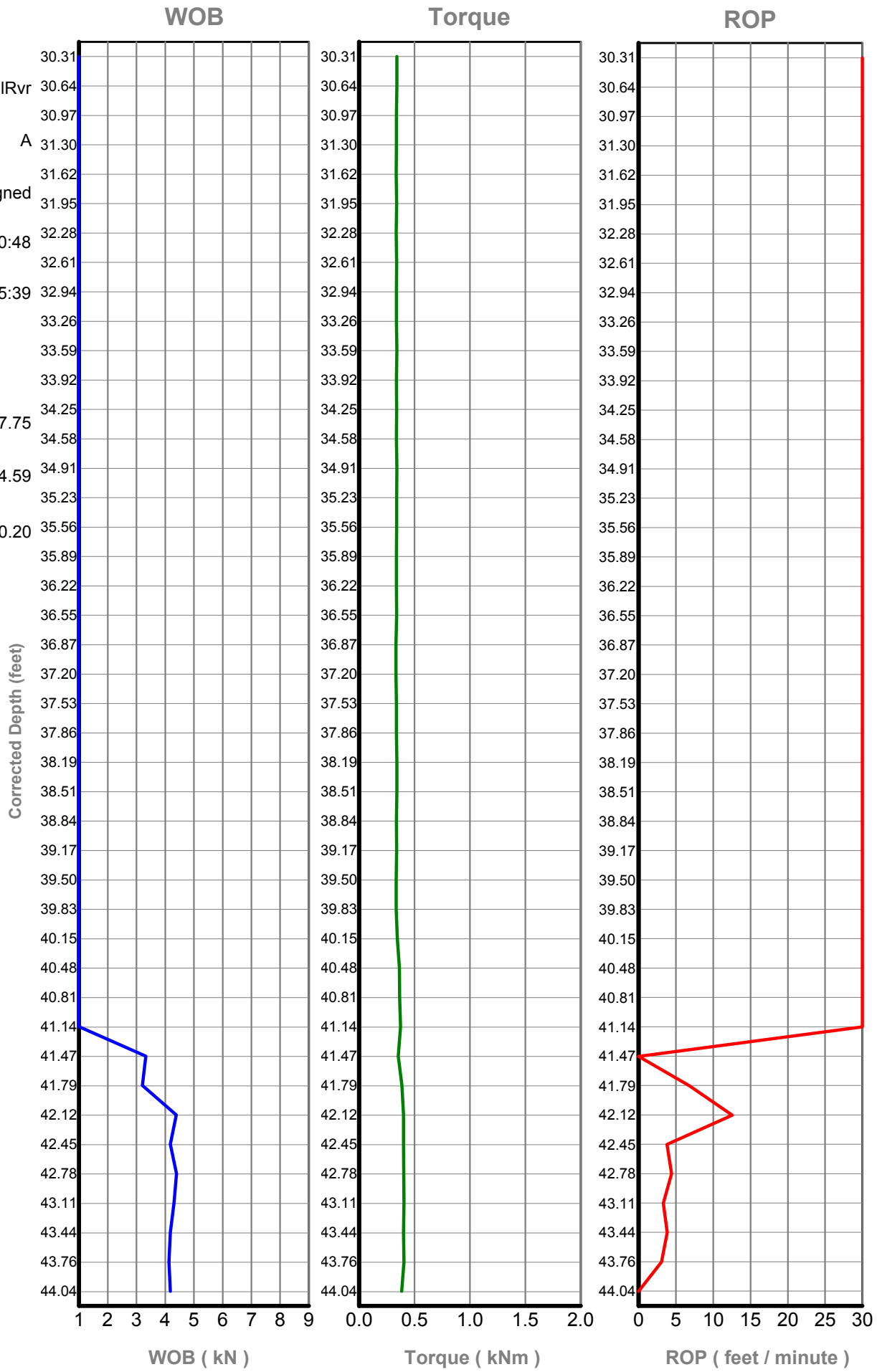
**End Date:**
4/23/2015 23:15:39

**Operator Note:**
'0.2 .4 b Auto Complete'

**Northing:**
367,337.75

**Easting:**
251,154.59

**Tide (feet):**
0.20



## Hole: H380 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:19:41 | 30.51 | 30.31 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:41 | 30.84 | 30.64 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:42 | 31.17 | 30.97 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:42 | 31.50 | 31.30 | 922 | 0.33 | 0.33 | 50.4 |
| 4/23/2015 12:19:42 | 31.82 | 31.62 | 896 | 0.37 | 0.32 | 49.0 |
| 4/23/2015 12:19:43 | 32.15 | 31.95 | 896 | 0.33 | 0.31 | 49.0 |
| 4/23/2015 12:19:43 | 32.48 | 32.28 | 896 | 0.33 | 0.31 | 49.0 |
| 4/23/2015 12:19:43 | 32.81 | 32.61 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 12:19:44 | 33.14 | 32.94 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 12:19:44 | 33.46 | 33.26 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 12:19:44 | 33.79 | 33.59 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 12:19:45 | 34.12 | 33.92 | 915 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 12:19:45 | 34.45 | 34.25 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 12:19:46 | 34.78 | 34.58 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 12:19:46 | 35.11 | 34.91 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 12:19:46 | 35.43 | 35.23 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 12:19:47 | 35.76 | 35.56 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:47 | 36.09 | 35.89 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:48 | 36.42 | 36.22 | 912 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:19:48 | 36.75 | 36.55 | 901 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 12:19:49 | 37.07 | 36.87 | 901 | 0.32 | 0.32 | 49.3 |
| 4/23/2015 12:19:49 | 37.40 | 37.20 | 901 | 0.32 | 0.32 | 49.3 |
| 4/23/2015 12:19:49 | 37.73 | 37.53 | 924 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 12:19:50 | 38.06 | 37.86 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 12:19:50 | 38.39 | 38.19 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 12:19:51 | 38.71 | 38.51 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 12:19:51 | 39.04 | 38.84 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 12:19:51 | 39.37 | 39.17 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 12:19:52 | 39.70 | 39.50 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 12:19:52 | 40.03 | 39.83 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 12:19:52 | 40.35 | 40.15 | 933 | 0.33 | 0.32 | 51.0 |
| 4/23/2015 12:19:53 | 40.68 | 40.48 | 926 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 12:19:53 | 41.01 | 40.81 | 926 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 12:19:53 | 41.34 | 41.14 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 12:19:54 | 41.67 | 41.47 | 924 | 0.30 | 0.32 | 50.5 |
| 4/23/2015 12:19:54 | 41.99 | 41.79 | 924 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 12:19:55 | 42.32 | 42.12 | 924 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 12:19:55 | 42.65 | 42.45 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 12:19:55 | 42.98 | 42.78 | 922 | 0.32 | 0.32 | 50.4 |
| 4/23/2015 12:19:56 | 43.31 | 43.11 | 910 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 12:19:56 | 43.64 | 43.44 | 910 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 12:19:56 | 43.96 | 43.76 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 12:19:57 | 44.29 | 44.09 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:19:57 | 44.62 | 44.42 | 917 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 12:19:58 | 44.95 | 44.75 | 917 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 12:19:58 | 45.28 | 45.08 | 932 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 12:19:59 | 45.60 | 45.40 | 937 | 0.32 | 0.32 | 51.3 |
| 4/23/2015 12:19:59 | 45.93 | 45.73 | 932 | 0.31 | 0.35 | 51.0 |
| 4/23/2015 12:20:00 | 46.26 | 46.06 | 879 | 0.30 | 0.40 | 48.0 |
| 4/23/2015 12:20:12 | 46.59 | 46.39 | 71 | 3.99 | 0.39 | 3.9 |
| 4/23/2015 12:20:17 | 46.92 | 46.72 | 81 | 3.57 | 0.39 | 4.4 |
| 4/23/2015 12:20:22 | 47.24 | 47.04 | 66 | 3.80 | 0.40 | 3.6 |
| 4/23/2015 12:20:28 | 47.57 | 47.37 | 61 | 3.42 | 0.39 | 3.3 |
| 4/23/2015 12:20:33 | 47.90 | 47.70 | 64 | 3.86 | 0.39 | 3.5 |
| 4/23/2015 12:20:39 | 48.23 | 48.03 | 52 | 3.28 | 0.40 | 2.8 |
| 4/23/2015 12:20:44 | 48.47 | 48.27 | 55 | 3.23 | 0.39 | 3.0 |

## H380 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:17:46

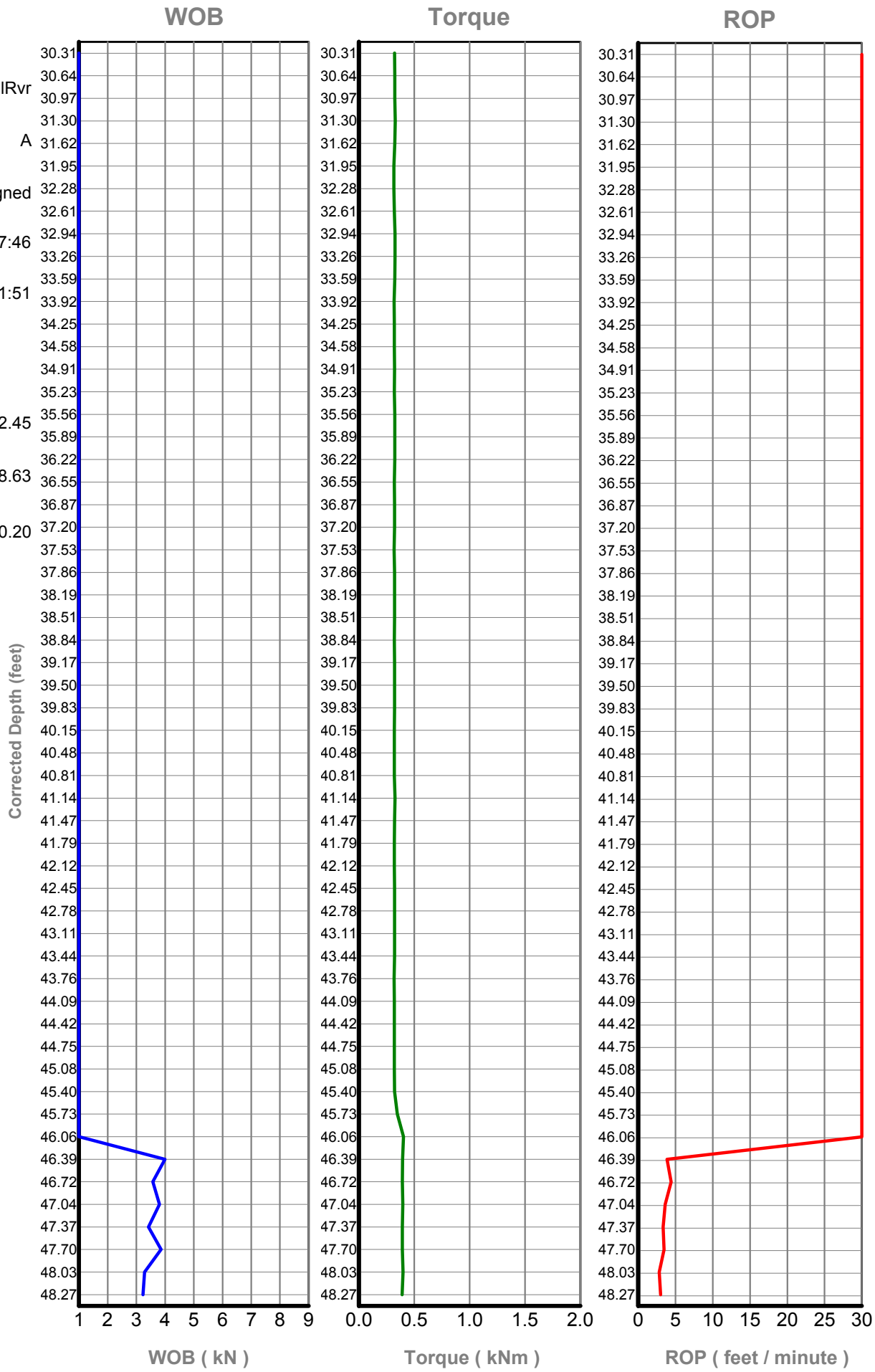
**End Date:**
4/23/2015 12:21:51

**Operator Note:**
'0.2 0.2 b Rock'

**Northing:**
367,122.45

**Easting:**
251,838.63

**Tide (feet):**
0.20



## Hole: H381 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:23:54 | 30.51 | 30.21 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 12:23:55 | 30.84 | 30.54 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:23:55 | 31.17 | 30.87 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 12:23:56 | 31.50 | 31.20 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 12:23:56 | 31.82 | 31.52 | 943 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 12:23:56 | 32.15 | 31.85 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:23:57 | 32.48 | 32.18 | 937 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 12:23:58 | 32.81 | 32.51 | 937 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 12:23:57 | 33.14 | 32.84 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:23:58 | 33.46 | 33.16 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:23:59 | 33.79 | 33.49 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:23:59 | 34.12 | 33.82 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:23:59 | 34.45 | 34.15 | 941 | 0.35 | 0.31 | 51.4 |
| 4/23/2015 12:24:00 | 34.78 | 34.48 | 950 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 12:24:00 | 35.11 | 34.81 | 950 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 12:24:00 | 35.43 | 35.13 | 958 | 0.33 | 0.32 | 52.4 |
| 4/23/2015 12:24:01 | 35.76 | 35.46 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 12:24:01 | 36.09 | 35.79 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 12:24:02 | 36.42 | 36.12 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 12:24:02 | 36.75 | 36.45 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:24:02 | 37.07 | 36.77 | 967 | 0.33 | 0.31 | 52.9 |
| 4/23/2015 12:24:03 | 37.40 | 37.10 | 967 | 0.33 | 0.31 | 52.9 |
| 4/23/2015 12:24:03 | 37.73 | 37.43 | 955 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 12:24:03 | 38.06 | 37.76 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 12:24:04 | 38.39 | 38.09 | 941 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:24:04 | 38.71 | 38.41 | 941 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:24:04 | 39.04 | 38.74 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 12:24:05 | 39.37 | 39.07 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 12:24:05 | 39.70 | 39.40 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 12:24:05 | 40.03 | 39.73 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:24:06 | 40.35 | 40.05 | 963 | 0.33 | 0.31 | 52.6 |
| 4/23/2015 12:24:06 | 40.68 | 40.38 | 968 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 12:24:07 | 41.01 | 40.71 | 968 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 12:24:07 | 41.34 | 41.04 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 12:24:07 | 41.67 | 41.37 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:24:08 | 41.99 | 41.69 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:24:08 | 42.32 | 42.02 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:24:09 | 42.65 | 42.35 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 12:24:09 | 42.98 | 42.68 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 12:24:10 | 43.31 | 43.01 | 954 | 0.33 | 0.31 | 52.2 |
| 4/23/2015 12:24:10 | 43.64 | 43.34 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 12:24:10 | 43.96 | 43.66 | 958 | 0.34 | 0.32 | 52.4 |
| 4/23/2015 12:24:11 | 44.29 | 43.99 | 958 | 0.34 | 0.32 | 52.4 |
| 4/23/2015 12:24:11 | 44.62 | 44.32 | 963 | 0.34 | 0.31 | 52.7 |
| 4/23/2015 12:24:11 | 44.95 | 44.65 | 960 | 0.33 | 0.31 | 52.5 |
| 4/23/2015 12:24:12 | 45.28 | 44.98 | 963 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 12:24:12 | 45.60 | 45.30 | 963 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 12:24:12 | 45.93 | 45.63 | 969 | 0.33 | 0.32 | 53.0 |
| 4/23/2015 12:24:13 | 46.26 | 45.96 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 12:24:13 | 46.59 | 46.29 | 962 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 12:24:13 | 46.92 | 46.62 | 957 | 0.33 | 0.31 | 52.3 |
| 4/23/2015 12:24:14 | 47.24 | 46.94 | 960 | 0.33 | 0.31 | 52.5 |
| 4/23/2015 12:24:14 | 47.57 | 47.27 | 957 | 0.32 | 0.33 | 52.3 |
| 4/23/2015 12:24:15 | 47.90 | 47.60 | 957 | 0.32 | 0.33 | 52.3 |
| 4/23/2015 12:24:21 | 48.23 | 47.93 | 69 | 3.19 | 0.34 | 3.7 |
| 4/23/2015 12:24:21 | 48.56 | 48.26 | 200 | 5.40 | 0.37 | 10.9 |
| 4/23/2015 12:24:30 | 48.88 | 48.58 | 43 | 4.20 | 0.39 | 2.4 |
| 4/23/2015 12:24:38 | 49.21 | 48.91 | 37 | 3.37 | 0.40 | 2.1 |
| 4/23/2015 12:24:47 | 49.54 | 49.24 | 35 | 3.37 | 0.39 | 1.9 |
| 4/23/2015 12:24:52 | 49.71 | 49.41 | 35 | 3.05 | 0.39 | 1.9 |

## H381 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:22:01

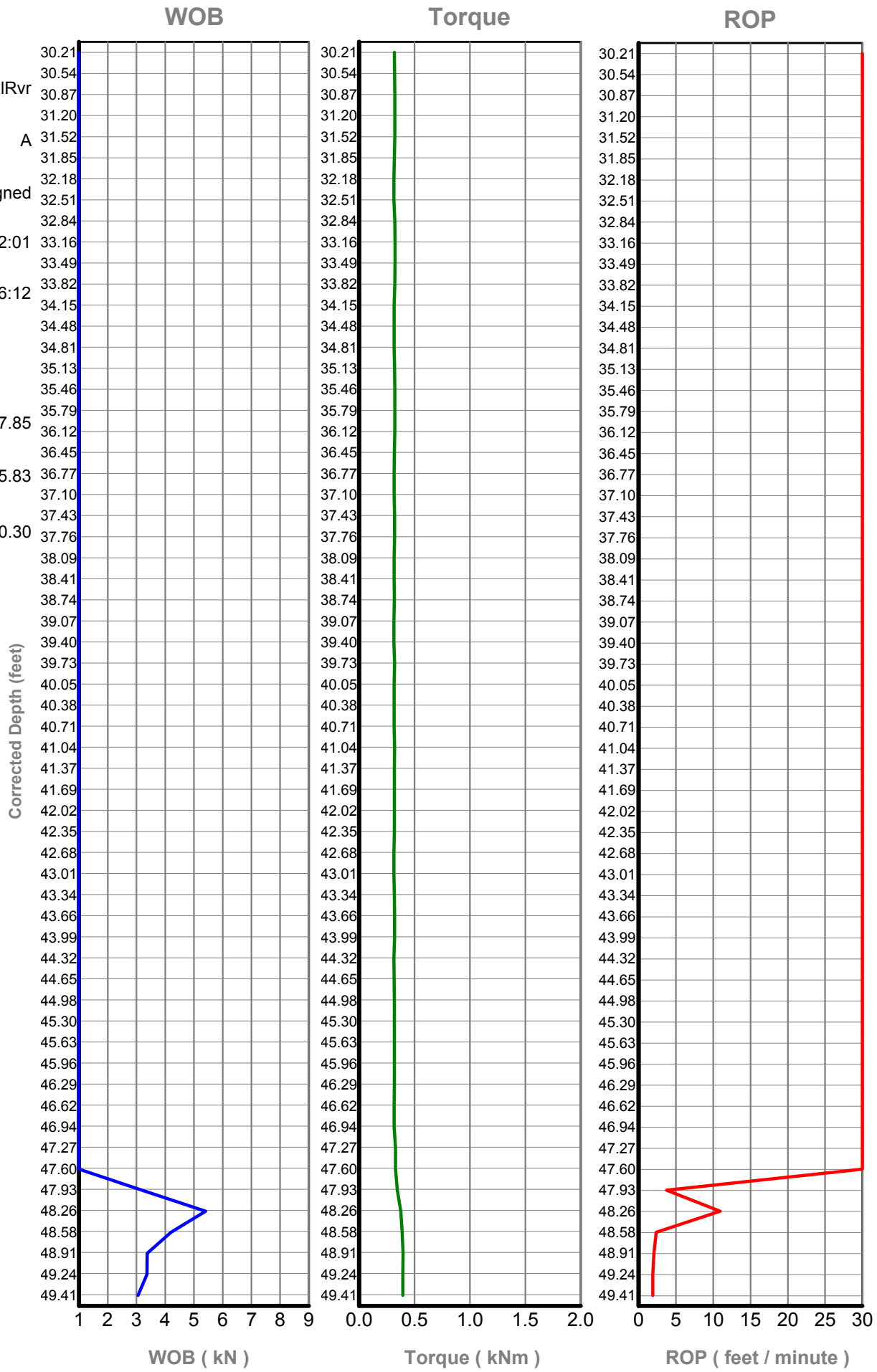
**End Date:**
4/23/2015 12:26:12

**Operator Note:**
'0.3 0.2 b Rock'

**Northing:**
367,157.85

**Easting:**
251,885.83

**Tide (feet):**
0.30



## Hole: H382 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:20:15 | 30.51 | 30.31 | 653 | 1.96 | 0.31 | 35.7 |
| 4/23/2015 12:20:16 | 30.84 | 30.64 | 649 | 1.98 | 0.31 | 35.5 |
| 4/23/2015 12:20:16 | 31.17 | 30.97 | 654 | 1.95 | 0.31 | 35.7 |
| 4/23/2015 12:20:17 | 31.50 | 31.30 | 660 | 1.99 | 0.31 | 36.1 |
| 4/23/2015 12:20:17 | 31.82 | 31.62 | 660 | 1.97 | 0.31 | 36.1 |
| 4/23/2015 12:20:18 | 32.15 | 31.95 | 660 | 1.97 | 0.31 | 36.1 |
| 4/23/2015 12:20:18 | 32.48 | 32.28 | 667 | 1.98 | 0.31 | 36.5 |
| 4/23/2015 12:20:19 | 32.81 | 32.61 | 653 | 1.96 | 0.31 | 35.7 |
| 4/23/2015 12:20:20 | 33.14 | 32.94 | 659 | 1.97 | 0.31 | 36.1 |
| 4/23/2015 12:20:20 | 33.46 | 33.26 | 652 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:21 | 33.79 | 33.59 | 656 | 1.96 | 0.30 | 35.9 |
| 4/23/2015 12:20:21 | 34.12 | 33.92 | 656 | 1.98 | 0.30 | 35.9 |
| 4/23/2015 12:20:22 | 34.45 | 34.25 | 659 | 1.98 | 0.30 | 36.0 |
| 4/23/2015 12:20:22 | 34.78 | 34.58 | 660 | 1.98 | 0.31 | 36.1 |
| 4/23/2015 12:20:23 | 35.11 | 34.91 | 659 | 1.98 | 0.30 | 36.0 |
| 4/23/2015 12:20:24 | 35.43 | 35.23 | 660 | 1.97 | 0.30 | 36.1 |
| 4/23/2015 12:20:24 | 35.76 | 35.56 | 660 | 1.96 | 0.31 | 36.1 |
| 4/23/2015 12:20:25 | 36.09 | 35.89 | 659 | 1.98 | 0.30 | 36.0 |
| 4/23/2015 12:20:25 | 36.42 | 36.22 | 659 | 1.93 | 0.30 | 36.0 |
| 4/23/2015 12:20:26 | 36.75 | 36.55 | 656 | 1.98 | 0.30 | 35.9 |
| 4/23/2015 12:20:26 | 37.07 | 36.87 | 652 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 12:20:27 | 37.40 | 37.20 | 655 | 1.96 | 0.30 | 35.8 |
| 4/23/2015 12:20:27 | 37.73 | 37.53 | 656 | 1.95 | 0.30 | 35.9 |
| 4/23/2015 12:20:28 | 38.06 | 37.86 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:28 | 38.39 | 38.19 | 653 | 1.96 | 0.30 | 35.7 |
| 4/23/2015 12:20:29 | 38.71 | 38.51 | 656 | 1.99 | 0.38 | 35.9 |
| 4/23/2015 12:20:30 | 39.04 | 38.84 | 660 | 1.95 | 0.30 | 36.1 |
| 4/23/2015 12:20:30 | 39.37 | 39.17 | 656 | 1.99 | 0.31 | 35.9 |
| 4/23/2015 12:20:31 | 39.70 | 39.50 | 652 | 1.97 | 0.30 | 35.7 |
| 4/23/2015 12:20:31 | 40.03 | 39.83 | 659 | 1.97 | 0.30 | 36.0 |
| 4/23/2015 12:20:32 | 40.35 | 40.15 | 656 | 1.96 | 0.30 | 35.9 |
| 4/23/2015 12:20:32 | 40.68 | 40.48 | 653 | 1.96 | 0.30 | 35.7 |
| 4/23/2015 12:20:33 | 41.01 | 40.81 | 653 | 1.95 | 0.29 | 35.7 |
| 4/23/2015 12:20:33 | 41.34 | 41.14 | 656 | 1.98 | 0.30 | 35.9 |
| 4/23/2015 12:20:34 | 41.67 | 41.47 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 12:20:34 | 41.99 | 41.79 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 12:20:35 | 42.32 | 42.12 | 653 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 12:20:36 | 42.65 | 42.45 | 650 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 12:20:36 | 42.98 | 42.78 | 650 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 12:20:37 | 43.31 | 43.11 | 650 | 1.95 | 0.31 | 35.6 |
| 4/23/2015 12:20:37 | 43.64 | 43.44 | 653 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 12:20:38 | 43.96 | 43.76 | 653 | 1.95 | 0.31 | 35.7 |
| 4/23/2015 12:20:38 | 44.29 | 44.09 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:39 | 44.62 | 44.42 | 646 | 1.98 | 0.30 | 35.3 |
| 4/23/2015 12:20:39 | 44.95 | 44.75 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:40 | 45.28 | 45.08 | 648 | 1.97 | 0.30 | 35.4 |
| 4/23/2015 12:20:41 | 45.60 | 45.40 | 648 | 1.96 | 0.24 | 35.4 |
| 4/23/2015 12:20:41 | 45.93 | 45.73 | 648 | 1.95 | 0.31 | 35.4 |
| 4/23/2015 12:20:42 | 46.26 | 46.06 | 657 | 1.98 | 0.30 | 36.0 |
| 4/23/2015 12:20:42 | 46.59 | 46.39 | 651 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 12:20:43 | 46.92 | 46.72 | 653 | 1.97 | 0.30 | 35.7 |
| 4/23/2015 12:20:43 | 47.24 | 47.04 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:44 | 47.57 | 47.37 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:20:44 | 47.90 | 47.70 | 646 | 1.98 | 0.31 | 35.3 |
| 4/23/2015 12:20:45 | 48.23 | 48.03 | 645 | 1.98 | 0.31 | 35.3 |
| 4/23/2015 12:20:46 | 48.56 | 48.36 | 639 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 12:20:56 | 48.88 | 48.68 | 3 | 1.96 | 1.10 | 0.2 |
| 4/23/2015 12:20:56 | 49.21 | 49.01 | 3 | 1.97 | 1.11 | 0.2 |
| 4/23/2015 12:20:57 | 49.54 | 49.34 | 102 | 2.00 | 1.11 | 5.6 |
| 4/23/2015 12:20:57 | 49.87 | 49.67 | 210 | 1.98 | 1.11 | 11.5 |
| 4/23/2015 12:20:58 | 50.20 | 50.00 | 322 | 2.00 | 1.11 | 17.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 12:20:59 | 50.53 | 50.33 | 417 | 1.94 | 1.14 | 22.8 |
| 4/23/2015 | 12:21:02 | 50.85 | 50.65 | 213 | 1.94 | 1.22 | 11.6 |
| 4/23/2015 | 12:21:03 | 51.18 | 50.98 | 182 | 1.95 | 1.20 | 9.9 |
| 4/23/2015 | 12:21:04 | 51.51 | 51.31 | 186 | 1.95 | 1.11 | 10.2 |
| 4/23/2015 | 12:21:05 | 51.84 | 51.64 | 250 | 1.97 | 1.16 | 13.7 |
| 4/23/2015 | 12:21:18 | 52.17 | 51.97 | 21 | 1.99 | 1.14 | 1.2 |
| 4/23/2015 | 12:21:34 | 52.49 | 52.29 | 23 | 1.96 | 1.20 | 1.2 |
| 4/23/2015 | 12:21:47 | 52.82 | 52.62 | 32 | 2.00 | 1.22 | 1.7 |
| 4/23/2015 | 12:21:58 | 53.15 | 52.95 | 35 | 1.98 | 1.18 | 1.9 |
| 4/23/2015 | 12:22:03 | 53.48 | 53.28 | 84 | 1.98 | 1.24 | 4.6 |
| 4/23/2015 | 12:22:09 | 53.81 | 53.61 | 32 | 1.97 | 1.15 | 1.7 |
| 4/23/2015 | 12:22:19 | 54.13 | 53.93 | 39 | 1.99 | 1.12 | 2.1 |
| 4/23/2015 | 12:22:27 | 54.46 | 54.26 | 67 | 2.00 | 1.20 | 3.6 |
| 4/23/2015 | 12:22:37 | 54.79 | 54.59 | 37 | 1.99 | 1.20 | 2.0 |
| 4/23/2015 | 12:22:46 | 55.12 | 54.92 | 40 | 1.96 | 1.12 | 2.2 |
| 4/23/2015 | 12:22:49 | 55.21 | 55.01 | 37 | 1.98 | 1.23 | 2.0 |

## H382 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:18:48

**End Date:**
4/23/2015 12:24:27

**Operator Note:**
'0.2 ,2 C Auto Complete'

**Northing:**
367,202.84

**Easting:**
251,945.83

**Tide (feet):**
0.20



## Hole: H383 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:31:32 | 34.78 | 30.08 | 1,116 | 0.29 | 0.29 | 61.0 |
| 4/26/2015 17:31:33 | 35.11 | 30.41 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/26/2015 17:31:33 | 35.43 | 30.73 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/26/2015 17:31:33 | 35.76 | 31.06 | 1,113 | 0.28 | 0.29 | 60.9 |
| 4/26/2015 17:31:34 | 36.09 | 31.39 | 1,113 | 0.28 | 0.29 | 60.9 |
| 4/26/2015 17:31:34 | 36.42 | 31.72 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 17:31:34 | 36.75 | 32.05 | 1,110 | 0.29 | 0.29 | 60.7 |
| 4/26/2015 17:31:35 | 37.07 | 32.37 | 1,110 | 0.29 | 0.29 | 60.7 |
| 4/26/2015 17:31:35 | 37.40 | 32.70 | 1,100 | 0.28 | 0.28 | 60.2 |
| 4/26/2015 17:31:36 | 37.73 | 33.03 | 1,107 | 0.29 | 0.27 | 60.5 |
| 4/26/2015 17:31:36 | 38.06 | 33.36 | 1,107 | 0.29 | 0.27 | 60.5 |
| 4/26/2015 17:31:36 | 38.39 | 33.69 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 17:31:37 | 38.71 | 34.01 | 1,104 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 17:31:37 | 39.04 | 34.34 | 1,104 | 0.28 | 0.27 | 60.4 |
| 4/26/2015 17:31:37 | 39.37 | 34.67 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/26/2015 17:31:38 | 39.70 | 35.00 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/26/2015 17:31:38 | 40.03 | 35.33 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 17:31:38 | 40.35 | 35.65 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 17:31:38 | 40.68 | 35.98 | 1,113 | 0.29 | 0.31 | 60.9 |
| 4/26/2015 17:31:39 | 41.01 | 36.31 | 1,116 | 0.28 | 0.30 | 61.0 |
| 4/26/2015 17:31:39 | 41.34 | 36.64 | 1,116 | 0.28 | 0.30 | 61.0 |
| 4/26/2015 17:31:39 | 41.67 | 36.97 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:31:40 | 41.99 | 37.29 | 1,122 | 0.28 | 0.30 | 61.4 |
| 4/26/2015 17:31:40 | 42.32 | 37.62 | 1,122 | 0.28 | 0.30 | 61.4 |
| 4/26/2015 17:31:40 | 42.65 | 37.95 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/26/2015 17:31:41 | 42.98 | 38.28 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/26/2015 17:31:41 | 43.31 | 38.61 | 1,110 | 0.28 | 0.30 | 60.7 |
| 4/26/2015 17:31:41 | 43.64 | 38.94 | 1,110 | 0.28 | 0.30 | 60.7 |
| 4/26/2015 17:31:42 | 43.96 | 39.26 | 1,110 | 0.28 | 0.30 | 60.7 |
| 4/26/2015 17:31:42 | 44.29 | 39.59 | 1,116 | 0.28 | 0.30 | 61.0 |
| 4/26/2015 17:31:42 | 44.62 | 39.92 | 1,116 | 0.28 | 0.30 | 61.0 |
| 4/26/2015 17:31:42 | 44.95 | 40.25 | 1,110 | 0.28 | 0.30 | 60.7 |
| 4/26/2015 17:31:43 | 45.28 | 40.58 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:31:43 | 45.60 | 40.90 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:31:43 | 45.93 | 41.23 | 1,094 | 0.28 | 0.31 | 59.8 |
| 4/26/2015 17:31:44 | 46.26 | 41.56 | 1,108 | 0.28 | 0.30 | 60.6 |
| 4/26/2015 17:31:44 | 46.59 | 41.89 | 1,108 | 0.28 | 0.30 | 60.6 |
| 4/26/2015 17:31:44 | 46.92 | 42.22 | 1,102 | 0.27 | 0.29 | 60.3 |
| 4/26/2015 17:31:45 | 47.24 | 42.54 | 1,102 | 0.27 | 0.29 | 60.3 |
| 4/26/2015 17:31:45 | 47.57 | 42.87 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/26/2015 17:31:46 | 47.90 | 43.20 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/26/2015 17:31:46 | 48.23 | 43.53 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/26/2015 17:31:46 | 48.56 | 43.86 | 1,109 | 0.27 | 0.30 | 60.6 |
| 4/26/2015 17:31:47 | 48.88 | 44.18 | 1,096 | 0.26 | 0.30 | 59.9 |
| 4/26/2015 17:31:47 | 49.21 | 44.51 | 1,096 | 0.26 | 0.30 | 59.9 |
| 4/26/2015 17:31:47 | 49.54 | 44.84 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/26/2015 17:31:48 | 49.87 | 45.17 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/26/2015 17:31:48 | 50.20 | 45.50 | 1,093 | 0.28 | 0.30 | 59.8 |
| 4/26/2015 17:31:48 | 50.53 | 45.83 | 1,101 | 0.27 | 0.28 | 60.2 |
| 4/26/2015 17:31:49 | 50.85 | 46.15 | 1,101 | 0.27 | 0.28 | 60.2 |
| 4/26/2015 17:31:49 | 51.18 | 46.48 | 1,102 | 0.26 | 0.35 | 60.2 |
| 4/26/2015 17:31:53 | 51.51 | 46.81 | 90 | 4.07 | 0.38 | 4.9 |
| 4/26/2015 17:31:56 | 51.84 | 47.14 | 207 | 3.68 | 0.38 | 11.3 |
| 4/26/2015 17:31:58 | 52.17 | 47.47 | 171 | 4.76 | 0.37 | 9.4 |
| 4/26/2015 17:32:01 | 52.49 | 47.79 | 11 | 1.75 | 0.32 | 0.6 |
| 4/26/2015 17:32:02 | 52.82 | 48.12 | 31 | 2.78 | 0.36 | 1.7 |
| 4/26/2015 17:32:03 | 53.15 | 48.45 | 269 | 2.76 | 0.38 | 14.7 |
| 4/26/2015 17:32:03 | 53.48 | 48.78 | 340 | 6.66 | 0.37 | 18.6 |
| 4/26/2015 17:32:08 | 53.81 | 49.11 | 0 | 2.72 | 0.35 | 0.0 |
| 4/26/2015 17:32:08 | 54.13 | 49.43 | 112 | 3.12 | 0.37 | 6.1 |
| 4/26/2015 17:32:11 | 54.46 | 49.76 | 225 | 2.67 | 0.35 | 12.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:32:11 | 54.79 | 50.09 | 185 | 2.42 | 0.35 | 10.1 |
| 4/26/2015 | 17:32:12 | 55.12 | 50.42 | 219 | 2.55 | 0.36 | 12.0 |
| 4/26/2015 | 17:32:12 | 55.45 | 50.75 | 309 | 3.48 | 0.35 | 16.9 |
| 4/26/2015 | 17:32:13 | 55.77 | 51.07 | 309 | 2.90 | 0.36 | 16.9 |
| 4/26/2015 | 17:32:13 | 56.10 | 51.40 | 448 | 3.05 | 0.35 | 24.5 |
| 4/26/2015 | 17:32:14 | 56.43 | 51.73 | 448 | 2.64 | 0.36 | 24.5 |
| 4/26/2015 | 17:32:18 | 56.76 | 52.06 | 231 | 2.61 | 0.34 | 12.6 |
| 4/26/2015 | 17:32:18 | 57.09 | 52.39 | 174 | 3.49 | 0.36 | 9.5 |
| 4/26/2015 | 17:32:19 | 57.41 | 52.71 | 154 | 2.48 | 0.37 | 8.4 |
| 4/26/2015 | 17:32:20 | 57.74 | 53.04 | 228 | 2.15 | 0.36 | 12.4 |
| 4/26/2015 | 17:32:20 | 58.07 | 53.37 | 322 | 2.13 | 0.36 | 17.6 |
| 4/26/2015 | 17:32:21 | 58.40 | 53.70 | 459 | 5.97 | 0.39 | 25.1 |
| 4/26/2015 | 17:32:23 | 58.73 | 54.03 | 379 | 2.02 | 0.35 | 20.7 |
| 4/26/2015 | 17:32:23 | 59.06 | 54.36 | 379 | 2.79 | 0.36 | 20.7 |
| 4/26/2015 | 17:32:24 | 59.38 | 54.68 | 410 | 2.99 | 0.36 | 22.4 |
| 4/26/2015 | 17:32:25 | 59.71 | 55.01 | 398 | 3.86 | 0.38 | 21.8 |
| 4/26/2015 | 17:32:25 | 59.76 | 55.06 | 398 | 3.86 | 0.38 | 21.8 |

## H383 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:30:04

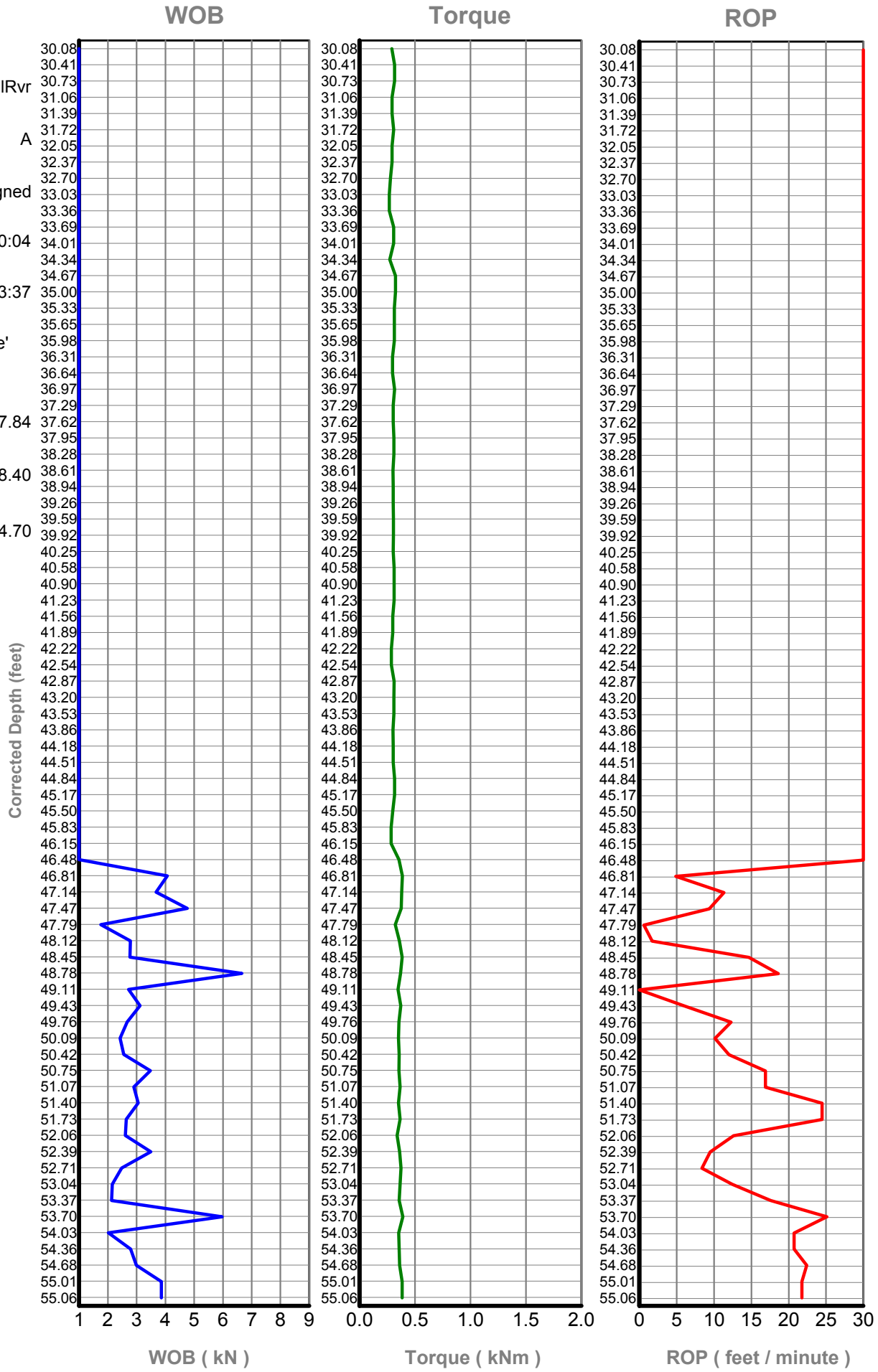
**End Date:**
4/26/2015 17:33:37

**Operator Note:**
'4.7 4.7 b Auto Complete'

**Northing:**
365,507.84

**Easting:**
249,968.40

**Tide (feet):**
4.70



## Hole: H384 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:27:30 | 34.78 | 30.08 | 1,130 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:30 | 35.11 | 30.41 | 1,137 | 0.27 | 0.31 | 62.1 |
| 4/26/2015 17:27:30 | 35.43 | 30.73 | 1,137 | 0.27 | 0.31 | 62.1 |
| 4/26/2015 17:27:30 | 35.76 | 31.06 | 1,134 | 0.27 | 0.32 | 62.0 |
| 4/26/2015 17:27:31 | 36.09 | 31.39 | 1,131 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:31 | 36.42 | 31.72 | 1,131 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:31 | 36.75 | 32.05 | 1,124 | 0.27 | 0.31 | 61.5 |
| 4/26/2015 17:27:32 | 37.07 | 32.37 | 1,140 | 0.27 | 0.31 | 62.3 |
| 4/26/2015 17:27:32 | 37.40 | 32.70 | 1,140 | 0.27 | 0.31 | 62.3 |
| 4/26/2015 17:27:32 | 37.73 | 33.03 | 1,130 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:33 | 38.06 | 33.36 | 1,130 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:33 | 38.39 | 33.69 | 1,130 | 0.27 | 0.31 | 61.8 |
| 4/26/2015 17:27:33 | 38.71 | 34.01 | 1,133 | 0.28 | 0.31 | 62.0 |
| 4/26/2015 17:27:34 | 39.04 | 34.34 | 1,133 | 0.28 | 0.31 | 62.0 |
| 4/26/2015 17:27:34 | 39.37 | 34.67 | 1,136 | 0.27 | 0.32 | 62.1 |
| 4/26/2015 17:27:34 | 39.70 | 35.00 | 1,136 | 0.27 | 0.32 | 62.1 |
| 4/26/2015 17:27:34 | 40.03 | 35.33 | 1,133 | 0.28 | 0.31 | 62.0 |
| 4/26/2015 17:27:35 | 40.35 | 35.65 | 1,133 | 0.27 | 0.31 | 62.0 |
| 4/26/2015 17:27:36 | 40.68 | 35.98 | 1,133 | 0.27 | 0.31 | 62.0 |
| 4/26/2015 17:27:36 | 41.01 | 36.31 | 1,123 | 0.27 | 0.31 | 61.4 |
| 4/26/2015 17:27:36 | 41.34 | 36.64 | 1,123 | 0.27 | 0.31 | 61.4 |
| 4/26/2015 17:27:36 | 41.67 | 36.97 | 1,105 | 0.27 | 0.31 | 60.4 |
| 4/26/2015 17:27:37 | 41.99 | 37.29 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/26/2015 17:27:37 | 42.32 | 37.62 | 1,105 | 0.28 | 0.31 | 60.4 |
| 4/26/2015 17:27:37 | 42.65 | 37.95 | 1,120 | 0.27 | 0.31 | 61.3 |
| 4/26/2015 17:27:38 | 42.98 | 38.28 | 1,120 | 0.27 | 0.31 | 61.3 |
| 4/26/2015 17:27:38 | 43.31 | 38.61 | 1,092 | 0.28 | 0.31 | 59.7 |
| 4/26/2015 17:27:38 | 43.64 | 38.94 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/26/2015 17:27:39 | 43.96 | 39.26 | 1,083 | 0.28 | 0.31 | 59.2 |
| 4/26/2015 17:27:39 | 44.29 | 39.59 | 1,097 | 0.27 | 0.31 | 60.0 |
| 4/26/2015 17:27:39 | 44.62 | 39.92 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/26/2015 17:27:40 | 44.95 | 40.25 | 1,097 | 0.28 | 0.32 | 60.0 |
| 4/26/2015 17:27:40 | 45.28 | 40.58 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/26/2015 17:27:40 | 45.60 | 40.90 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/26/2015 17:27:40 | 45.93 | 41.23 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/26/2015 17:27:41 | 46.26 | 41.56 | 1,089 | 0.27 | 0.30 | 59.5 |
| 4/26/2015 17:27:41 | 46.59 | 41.89 | 1,089 | 0.27 | 0.30 | 59.5 |
| 4/26/2015 17:27:41 | 46.92 | 42.22 | 1,089 | 0.28 | 0.31 | 59.5 |
| 4/26/2015 17:27:42 | 47.24 | 42.54 | 1,089 | 0.28 | 0.31 | 59.5 |
| 4/26/2015 17:27:42 | 47.57 | 42.87 | 1,107 | 0.27 | 0.31 | 60.5 |
| 4/26/2015 17:27:42 | 47.90 | 43.20 | 1,107 | 0.27 | 0.31 | 60.5 |
| 4/26/2015 17:27:43 | 48.23 | 43.53 | 1,107 | 0.27 | 0.31 | 60.5 |
| 4/26/2015 17:27:43 | 48.56 | 43.86 | 1,118 | 0.27 | 0.31 | 61.1 |
| 4/26/2015 17:27:43 | 48.88 | 44.18 | 1,118 | 0.28 | 0.31 | 61.1 |
| 4/26/2015 17:27:44 | 49.21 | 44.51 | 1,118 | 0.28 | 0.31 | 61.1 |
| 4/26/2015 17:27:44 | 49.54 | 44.84 | 1,124 | 0.27 | 0.32 | 61.5 |
| 4/26/2015 17:27:44 | 49.87 | 45.17 | 1,124 | 0.27 | 0.32 | 61.5 |
| 4/26/2015 17:27:45 | 50.20 | 45.50 | 1,134 | 0.27 | 0.31 | 62.0 |
| 4/26/2015 17:27:45 | 50.53 | 45.83 | 1,100 | 0.26 | 0.36 | 60.2 |
| 4/26/2015 17:27:49 | 50.85 | 46.15 | 61 | 3.33 | 0.37 | 3.3 |
| 4/26/2015 17:27:52 | 51.18 | 46.48 | 105 | 3.17 | 0.42 | 5.8 |
| 4/26/2015 17:27:54 | 51.51 | 46.81 | 180 | 5.88 | 0.40 | 9.8 |
| 4/26/2015 17:27:56 | 51.84 | 47.14 | 122 | 3.64 | 0.38 | 6.7 |
| 4/26/2015 17:27:57 | 52.17 | 47.47 | 234 | 4.17 | 0.37 | 12.8 |
| 4/26/2015 17:28:01 | 52.49 | 47.79 | 54 | 3.76 | 0.39 | 3.0 |
| 4/26/2015 17:28:02 | 52.82 | 48.12 | 179 | 6.72 | 0.37 | 9.8 |
| 4/26/2015 17:28:10 | 53.15 | 48.45 | 0 | 4.21 | 0.38 | 0.0 |
| 4/26/2015 17:28:14 | 53.48 | 48.78 | 62 | 3.16 | 0.37 | 3.4 |
| 4/26/2015 17:28:15 | 53.81 | 49.11 | 124 | 3.24 | 0.38 | 6.8 |
| 4/26/2015 17:28:16 | 54.13 | 49.43 | 176 | 3.69 | 0.37 | 9.6 |
| 4/26/2015 17:28:23 | 54.46 | 49.76 | 0 | 3.66 | 0.37 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:28:23 | 54.79 | 50.09 | 76 | 2.86 | 0.36 | 4.1 |
| 4/26/2015 | 17:28:24 | 55.12 | 50.42 | 76 | 2.36 | 0.35 | 4.1 |
| 4/26/2015 | 17:28:24 | 55.45 | 50.75 | 185 | 2.44 | 0.35 | 10.1 |
| 4/26/2015 | 17:28:25 | 55.77 | 51.07 | 185 | 2.42 | 0.36 | 10.1 |
| 4/26/2015 | 17:28:26 | 56.10 | 51.40 | 453 | 3.09 | 0.36 | 24.8 |
| 4/26/2015 | 17:28:26 | 56.43 | 51.73 | 583 | 2.48 | 0.36 | 31.9 |
| 4/26/2015 | 17:28:27 | 56.76 | 52.06 | 622 | 3.30 | 0.37 | 34.0 |
| 4/26/2015 | 17:28:27 | 57.09 | 52.39 | 609 | 4.95 | 0.37 | 33.3 |
| 4/26/2015 | 17:28:30 | 57.41 | 52.71 | 442 | 3.31 | 0.37 | 24.2 |
| 4/26/2015 | 17:28:31 | 57.74 | 53.04 | 374 | 2.64 | 0.37 | 20.5 |
| 4/26/2015 | 17:28:31 | 58.07 | 53.37 | 341 | 2.77 | 0.37 | 18.7 |
| 4/26/2015 | 17:28:32 | 58.40 | 53.70 | 331 | 3.58 | 0.39 | 18.1 |
| 4/26/2015 | 17:28:34 | 58.73 | 54.03 | 283 | 3.59 | 0.38 | 15.5 |
| 4/26/2015 | 17:28:35 | 59.06 | 54.36 | 287 | 2.76 | 0.37 | 15.7 |
| 4/26/2015 | 17:28:36 | 59.38 | 54.68 | 321 | 3.71 | 0.38 | 17.6 |
| 4/26/2015 | 17:28:39 | 59.67 | 54.97 | 201 | 3.79 | 0.40 | 11.0 |

## H384 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:25:24

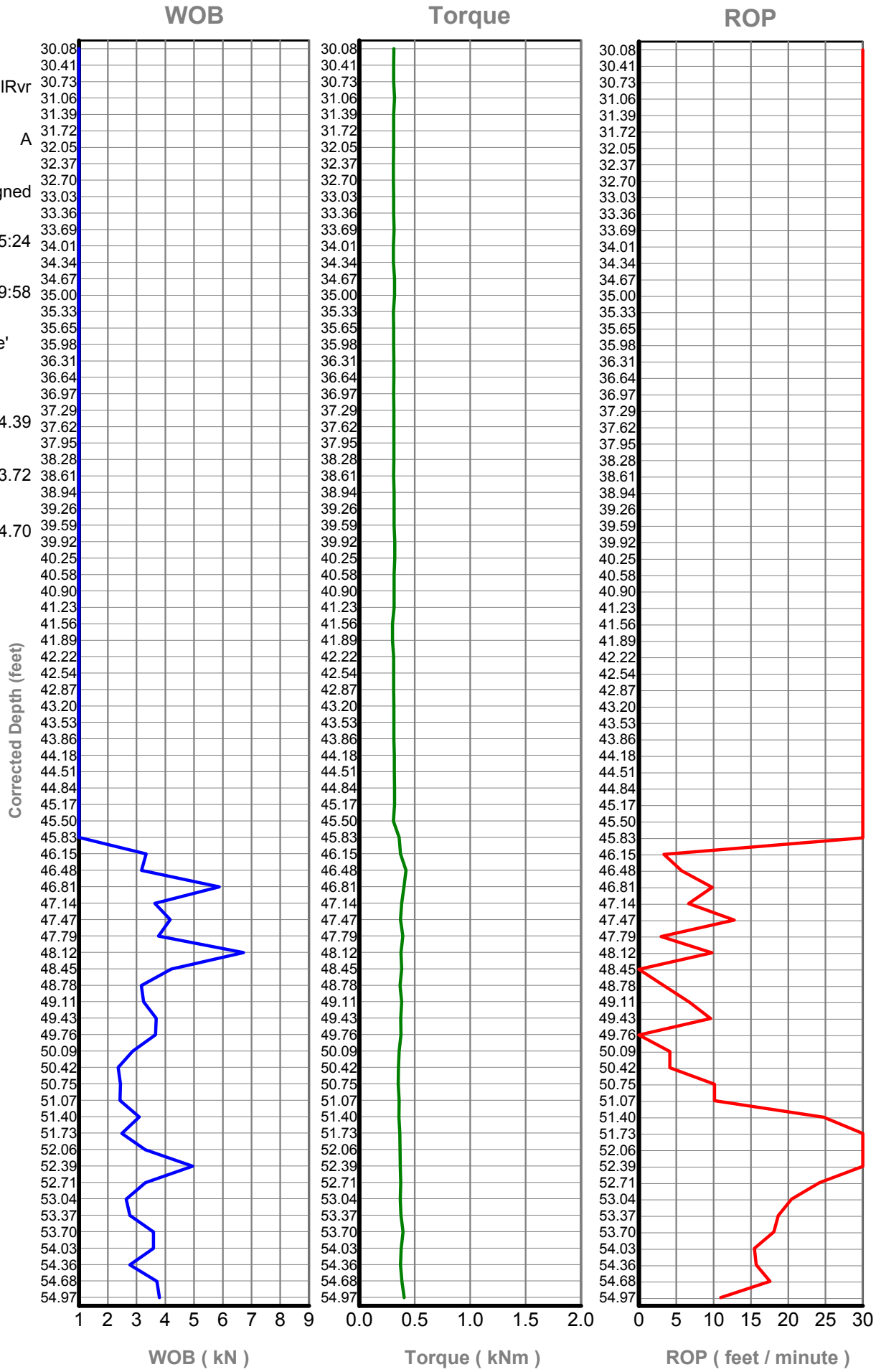
**End Date:**
4/26/2015 17:29:58

**Operator Note:**
'4.7 4.7 b Auto Complete'

**Northing:**
365,544.39

**Easting:**
250,013.72

**Tide (feet):**
4.70



## Hole: H385 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:30:21 | 34.78 | 30.08 | 649 | 1.77 | 0.27 | 35.5 |
| 4/26/2015 17:30:21 | 35.11 | 30.41 | 659 | 1.76 | 0.27 | 36.0 |
| 4/26/2015 17:30:22 | 35.43 | 30.73 | 629 | 1.76 | 0.27 | 34.4 |
| 4/26/2015 17:30:22 | 35.76 | 31.06 | 629 | 1.76 | 0.28 | 34.4 |
| 4/26/2015 17:30:23 | 36.09 | 31.39 | 632 | 1.74 | 0.27 | 34.5 |
| 4/26/2015 17:30:23 | 36.42 | 31.72 | 635 | 1.77 | 0.27 | 34.7 |
| 4/26/2015 17:30:24 | 36.75 | 32.05 | 636 | 1.77 | 0.27 | 34.8 |
| 4/26/2015 17:30:25 | 37.07 | 32.37 | 636 | 1.76 | 0.27 | 34.8 |
| 4/26/2015 17:30:25 | 37.40 | 32.70 | 630 | 1.75 | 0.27 | 34.5 |
| 4/26/2015 17:30:26 | 37.73 | 33.03 | 649 | 1.77 | 0.28 | 35.5 |
| 4/26/2015 17:30:26 | 38.06 | 33.36 | 636 | 1.76 | 0.29 | 34.8 |
| 4/26/2015 17:30:27 | 38.39 | 33.69 | 631 | 1.76 | 0.27 | 34.5 |
| 4/26/2015 17:30:28 | 38.71 | 34.01 | 634 | 1.79 | 0.27 | 34.7 |
| 4/26/2015 17:30:28 | 39.04 | 34.34 | 634 | 1.72 | 0.28 | 34.7 |
| 4/26/2015 17:30:29 | 39.37 | 34.67 | 635 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 17:30:29 | 39.70 | 35.00 | 628 | 1.76 | 0.28 | 34.3 |
| 4/26/2015 17:30:30 | 40.03 | 35.33 | 642 | 1.75 | 0.28 | 35.1 |
| 4/26/2015 17:30:30 | 40.35 | 35.65 | 642 | 1.79 | 0.28 | 35.1 |
| 4/26/2015 17:30:31 | 40.68 | 35.98 | 638 | 1.76 | 0.28 | 34.9 |
| 4/26/2015 17:30:31 | 41.01 | 36.31 | 638 | 1.77 | 0.26 | 34.9 |
| 4/26/2015 17:30:32 | 41.34 | 36.64 | 647 | 1.76 | 0.28 | 35.4 |
| 4/26/2015 17:30:32 | 41.67 | 36.97 | 622 | 1.76 | 0.27 | 34.0 |
| 4/26/2015 17:30:33 | 41.99 | 37.29 | 622 | 1.76 | 0.28 | 34.0 |
| 4/26/2015 17:30:33 | 42.32 | 37.62 | 634 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 17:30:35 | 42.65 | 37.95 | 627 | 1.76 | 0.28 | 34.3 |
| 4/26/2015 17:30:35 | 42.98 | 38.28 | 627 | 1.77 | 0.28 | 34.3 |
| 4/26/2015 17:30:36 | 43.31 | 38.61 | 625 | 1.78 | 0.28 | 34.2 |
| 4/26/2015 17:30:36 | 43.64 | 38.94 | 644 | 1.76 | 0.28 | 35.2 |
| 4/26/2015 17:30:37 | 43.96 | 39.26 | 626 | 1.76 | 0.28 | 34.2 |
| 4/26/2015 17:30:37 | 44.29 | 39.59 | 618 | 1.75 | 0.28 | 33.8 |
| 4/26/2015 17:30:38 | 44.62 | 39.92 | 618 | 1.76 | 0.28 | 33.8 |
| 4/26/2015 17:30:38 | 44.95 | 40.25 | 634 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 17:30:39 | 45.28 | 40.58 | 632 | 1.78 | 0.28 | 34.6 |
| 4/26/2015 17:30:39 | 45.60 | 40.90 | 625 | 1.74 | 0.28 | 34.2 |
| 4/26/2015 17:30:40 | 45.93 | 41.23 | 644 | 1.75 | 0.27 | 35.2 |
| 4/26/2015 17:30:40 | 46.26 | 41.56 | 640 | 1.76 | 0.27 | 35.0 |
| 4/26/2015 17:30:41 | 46.59 | 41.89 | 624 | 1.76 | 0.27 | 34.1 |
| 4/26/2015 17:30:42 | 46.92 | 42.22 | 620 | 1.76 | 0.26 | 33.9 |
| 4/26/2015 17:30:42 | 47.24 | 42.54 | 635 | 1.75 | 0.27 | 34.7 |
| 4/26/2015 17:30:43 | 47.57 | 42.87 | 617 | 1.76 | 0.27 | 33.7 |
| 4/26/2015 17:30:43 | 47.90 | 43.20 | 617 | 1.77 | 0.27 | 33.7 |
| 4/26/2015 17:30:44 | 48.23 | 43.53 | 617 | 1.76 | 0.26 | 33.7 |
| 4/26/2015 17:30:45 | 48.56 | 43.86 | 612 | 1.77 | 0.27 | 33.5 |
| 4/26/2015 17:30:45 | 48.88 | 44.18 | 602 | 1.75 | 0.28 | 32.9 |
| 4/26/2015 17:30:46 | 49.21 | 44.51 | 602 | 1.78 | 0.27 | 32.9 |
| 4/26/2015 17:30:55 | 49.54 | 44.84 | 0 | 1.76 | 1.07 | 0.0 |
| 4/26/2015 17:30:57 | 49.87 | 45.17 | 82 | 1.75 | 0.98 | 4.5 |
| 4/26/2015 17:30:58 | 50.20 | 45.50 | 239 | 1.72 | 1.17 | 13.1 |
| 4/26/2015 17:30:59 | 50.53 | 45.83 | 307 | 1.77 | 1.17 | 16.8 |
| 4/26/2015 17:31:00 | 50.85 | 46.15 | 346 | 1.74 | 1.14 | 18.9 |
| 4/26/2015 17:32:37 | 51.18 | 46.48 | 0 | 1.73 | 1.08 | 0.0 |
| 4/26/2015 17:33:23 | 51.51 | 46.81 | 9 | 1.74 | 1.25 | 0.5 |
| 4/26/2015 17:33:24 | 51.84 | 47.14 | 139 | 1.73 | 1.20 | 7.6 |
| 4/26/2015 17:33:26 | 52.17 | 47.47 | 228 | 1.74 | 1.15 | 12.5 |
| 4/26/2015 17:33:59 | 52.49 | 47.79 | 67 | 1.77 | 1.11 | 3.7 |
| 4/26/2015 17:34:01 | 52.82 | 48.12 | 149 | 1.78 | 1.13 | 8.2 |
| 4/26/2015 17:34:04 | 53.15 | 48.45 | 142 | 1.78 | 1.18 | 7.7 |
| 4/26/2015 17:34:07 | 53.48 | 48.78 | 133 | 1.67 | 1.12 | 7.3 |
| 4/26/2015 17:34:10 | 53.81 | 49.11 | 102 | 1.76 | 1.13 | 5.6 |
| 4/26/2015 17:34:14 | 54.13 | 49.43 | 92 | 1.76 | 1.15 | 5.0 |
| 4/26/2015 17:34:19 | 54.46 | 49.76 | 84 | 1.77 | 1.23 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:34:28 | 54.79 | 50.09 | 17 | 1.79 | 1.50 | 0.9 |
| 4/26/2015 | 17:34:56 | 55.12 | 50.42 | 14 | 1.77 | 1.49 | 0.8 |
| 4/26/2015 | 17:36:12 | 55.45 | 50.75 | 72 | 1.77 | 1.13 | 3.9 |
| 4/26/2015 | 17:36:16 | 55.77 | 51.07 | 67 | 1.77 | 1.17 | 3.6 |
| 4/26/2015 | 17:36:22 | 56.10 | 51.40 | 72 | 1.76 | 1.19 | 4.0 |
| 4/26/2015 | 17:36:28 | 56.43 | 51.73 | 57 | 1.78 | 1.20 | 3.1 |
| 4/26/2015 | 17:36:33 | 56.60 | 51.90 | 35 | 1.79 | 1.49 | 1.9 |

## H385 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:28:35

**End Date:**
4/26/2015 17:39:15

**Operator Note:**
'4.7 4.7 C Auto Complete'

**Northing:**
365,591.60

**Easting:**
250,071.38

**Tide (feet):**
4.70



## Hole: H386 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:05:25 | 32.81 | 30.31 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 16:05:26 | 33.14 | 30.64 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 16:05:26 | 33.46 | 30.96 | 1,111 | 0.31 | 0.31 | 60.8 |
| 4/26/2015 16:05:26 | 33.79 | 31.29 | 1,093 | 0.35 | 0.31 | 59.8 |
| 4/26/2015 16:05:27 | 34.12 | 31.62 | 1,093 | 0.35 | 0.31 | 59.8 |
| 4/26/2015 16:05:27 | 34.45 | 31.95 | 1,081 | 0.40 | 0.31 | 59.1 |
| 4/26/2015 16:05:27 | 34.78 | 32.28 | 1,072 | 0.39 | 0.32 | 58.6 |
| 4/26/2015 16:05:28 | 35.11 | 32.61 | 1,072 | 0.39 | 0.32 | 58.6 |
| 4/26/2015 16:05:28 | 35.43 | 32.93 | 1,055 | 0.41 | 0.32 | 57.7 |
| 4/26/2015 16:05:28 | 35.76 | 33.26 | 1,034 | 0.43 | 0.32 | 56.6 |
| 4/26/2015 16:05:29 | 36.09 | 33.59 | 1,034 | 0.43 | 0.32 | 56.6 |
| 4/26/2015 16:05:29 | 36.42 | 33.92 | 1,032 | 0.39 | 0.33 | 56.4 |
| 4/26/2015 16:05:29 | 36.75 | 34.25 | 1,026 | 0.43 | 0.32 | 56.1 |
| 4/26/2015 16:05:30 | 37.07 | 34.57 | 1,026 | 0.43 | 0.32 | 56.1 |
| 4/26/2015 16:05:30 | 37.40 | 34.90 | 1,024 | 0.39 | 0.32 | 56.0 |
| 4/26/2015 16:05:30 | 37.73 | 35.23 | 1,024 | 0.37 | 0.32 | 56.0 |
| 4/26/2015 16:05:31 | 38.06 | 35.56 | 1,024 | 0.37 | 0.32 | 56.0 |
| 4/26/2015 16:05:31 | 38.39 | 35.89 | 1,030 | 0.36 | 0.31 | 56.3 |
| 4/26/2015 16:05:32 | 38.71 | 36.21 | 1,023 | 0.30 | 0.31 | 55.9 |
| 4/26/2015 16:05:32 | 39.04 | 36.54 | 1,023 | 0.30 | 0.31 | 55.9 |
| 4/26/2015 16:05:32 | 39.37 | 36.87 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/26/2015 16:05:33 | 39.70 | 37.20 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/26/2015 16:05:33 | 40.03 | 37.53 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/26/2015 16:05:33 | 40.35 | 37.85 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:05:34 | 40.68 | 38.18 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:05:34 | 41.01 | 38.51 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/26/2015 16:05:34 | 41.34 | 38.84 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/26/2015 16:05:35 | 41.67 | 39.17 | 1,064 | 0.33 | 0.31 | 58.2 |
| 4/26/2015 16:05:35 | 41.99 | 39.49 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 16:05:35 | 42.32 | 39.82 | 1,077 | 0.29 | 0.30 | 58.9 |
| 4/26/2015 16:05:36 | 42.65 | 40.15 | 1,077 | 0.29 | 0.30 | 58.9 |
| 4/26/2015 16:05:36 | 42.98 | 40.48 | 1,047 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 16:05:36 | 43.31 | 40.81 | 1,047 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 16:05:36 | 43.64 | 41.14 | 1,047 | 0.29 | 0.31 | 57.3 |
| 4/26/2015 16:05:37 | 43.96 | 41.46 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/26/2015 16:05:37 | 44.29 | 41.79 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/26/2015 16:05:37 | 44.62 | 42.12 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/26/2015 16:05:38 | 44.95 | 42.45 | 1,043 | 0.29 | 0.31 | 57.0 |
| 4/26/2015 16:05:38 | 45.28 | 42.78 | 1,043 | 0.29 | 0.31 | 57.0 |
| 4/26/2015 16:05:38 | 45.60 | 43.10 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 16:05:39 | 45.93 | 43.43 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 16:05:39 | 46.26 | 43.76 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 16:05:39 | 46.59 | 44.09 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 16:05:40 | 46.92 | 44.42 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 16:05:40 | 47.24 | 44.74 | 1,090 | 0.30 | 0.31 | 59.6 |
| 4/26/2015 16:05:41 | 47.57 | 45.07 | 1,083 | 0.35 | 0.31 | 59.2 |
| 4/26/2015 16:05:41 | 47.90 | 45.40 | 1,083 | 0.35 | 0.31 | 59.2 |
| 4/26/2015 16:05:41 | 48.23 | 45.73 | 1,073 | 0.36 | 0.31 | 58.7 |
| 4/26/2015 16:05:42 | 48.56 | 46.06 | 1,068 | 3.08 | 0.37 | 58.4 |
| 4/26/2015 16:05:45 | 48.88 | 46.38 | 265 | 3.71 | 0.36 | 14.5 |
| 4/26/2015 16:05:47 | 49.21 | 46.71 | 123 | 3.47 | 0.37 | 6.7 |
| 4/26/2015 16:05:48 | 49.54 | 47.04 | 229 | 3.22 | 0.37 | 12.5 |
| 4/26/2015 16:05:49 | 49.87 | 47.37 | 229 | 3.58 | 0.40 | 12.5 |
| 4/26/2015 16:05:57 | 50.20 | 47.70 | 0 | 3.17 | 0.36 | 0.0 |
| 4/26/2015 16:05:59 | 50.53 | 48.03 | 135 | 3.20 | 0.38 | 7.4 |
| 4/26/2015 16:06:07 | 50.85 | 48.35 | 61 | 3.68 | 0.39 | 3.3 |
| 4/26/2015 16:06:09 | 51.18 | 48.68 | 106 | 3.52 | 0.39 | 5.8 |
| 4/26/2015 16:06:12 | 51.51 | 49.01 | 116 | 3.72 | 0.38 | 6.3 |
| 4/26/2015 16:06:15 | 51.84 | 49.34 | 126 | 3.02 | 0.40 | 6.9 |
| 4/26/2015 16:06:22 | 52.17 | 49.67 | 42 | 2.68 | 0.40 | 2.3 |
| 4/26/2015 16:06:30 | 52.49 | 49.99 | 41 | 2.99 | 0.40 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 16:06:38 | 52.78 | 50.28 | 49 | 3.19 | 0.40 | 2.7 | |

## H386 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:03:23

**End Date:**
4/26/2015 16:09:12

**Operator Note:**
'2.5 2.5 b Auto Complete'

**Northing:**
365,653.10

**Easting:**
250,141.07

**Tide (feet):**
2.50



## Hole: H387 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:10:45 | 33.14 | 30.14 | 1,032 | 0.40 | 0.32 | 56.4 |
| 4/26/2015 16:10:46 | 33.46 | 30.46 | 1,032 | 0.40 | 0.32 | 56.4 |
| 4/26/2015 16:10:46 | 33.79 | 30.79 | 1,029 | 0.33 | 0.31 | 56.3 |
| 4/26/2015 16:10:46 | 34.12 | 31.12 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/26/2015 16:10:47 | 34.45 | 31.45 | 1,038 | 0.29 | 0.31 | 56.7 |
| 4/26/2015 16:10:47 | 34.78 | 31.78 | 1,046 | 0.29 | 0.30 | 57.2 |
| 4/26/2015 16:10:47 | 35.11 | 32.11 | 1,046 | 0.29 | 0.30 | 57.2 |
| 4/26/2015 16:10:47 | 35.43 | 32.43 | 1,067 | 0.32 | 0.30 | 58.3 |
| 4/26/2015 16:10:48 | 35.76 | 32.76 | 1,066 | 0.27 | 0.31 | 58.3 |
| 4/26/2015 16:10:48 | 36.09 | 33.09 | 1,066 | 0.27 | 0.31 | 58.3 |
| 4/26/2015 16:10:48 | 36.42 | 33.42 | 1,049 | 0.29 | 0.31 | 57.4 |
| 4/26/2015 16:10:49 | 36.75 | 33.75 | 1,049 | 0.28 | 0.31 | 57.4 |
| 4/26/2015 16:10:49 | 37.07 | 34.07 | 1,049 | 0.28 | 0.31 | 57.4 |
| 4/26/2015 16:10:49 | 37.40 | 34.40 | 1,077 | 0.31 | 0.30 | 58.9 |
| 4/26/2015 16:10:50 | 37.73 | 34.73 | 1,078 | 0.33 | 0.31 | 58.9 |
| 4/26/2015 16:10:50 | 38.06 | 35.06 | 1,078 | 0.33 | 0.31 | 58.9 |
| 4/26/2015 16:10:50 | 38.39 | 35.39 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/26/2015 16:10:51 | 38.71 | 35.71 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/26/2015 16:10:51 | 39.04 | 36.04 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:10:51 | 39.37 | 36.37 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:10:52 | 39.70 | 36.70 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:10:52 | 40.03 | 37.03 | 1,073 | 0.29 | 0.30 | 58.7 |
| 4/26/2015 16:10:52 | 40.35 | 37.35 | 1,073 | 0.29 | 0.32 | 58.7 |
| 4/26/2015 16:10:53 | 40.68 | 37.68 | 1,073 | 0.29 | 0.32 | 58.7 |
| 4/26/2015 16:10:53 | 41.01 | 38.01 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 16:10:54 | 41.34 | 38.34 | 1,073 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 16:10:53 | 41.67 | 38.67 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 16:10:54 | 41.99 | 38.99 | 1,102 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 16:10:55 | 42.32 | 39.32 | 1,102 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 16:10:55 | 42.65 | 39.65 | 1,089 | 0.30 | 0.31 | 59.6 |
| 4/26/2015 16:10:55 | 42.98 | 39.98 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 16:10:56 | 43.31 | 40.31 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 16:10:56 | 43.64 | 40.64 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 16:10:56 | 43.96 | 40.96 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 16:10:56 | 44.29 | 41.29 | 1,091 | 0.25 | 0.31 | 59.7 |
| 4/26/2015 16:10:57 | 44.62 | 41.62 | 1,087 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 16:10:57 | 44.95 | 41.95 | 1,087 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 16:10:57 | 45.28 | 42.28 | 1,084 | 0.30 | 0.31 | 59.3 |
| 4/26/2015 16:10:58 | 45.60 | 42.60 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/26/2015 16:10:58 | 45.93 | 42.93 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/26/2015 16:10:58 | 46.26 | 43.26 | 1,075 | 0.30 | 0.31 | 58.8 |
| 4/26/2015 16:10:59 | 46.59 | 43.59 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 16:10:59 | 46.92 | 43.92 | 1,063 | 0.30 | 0.31 | 58.1 |
| 4/26/2015 16:10:59 | 47.24 | 44.24 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:11:00 | 47.57 | 44.57 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:11:00 | 47.90 | 44.90 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 16:11:00 | 48.23 | 45.23 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 16:11:01 | 48.56 | 45.56 | 1,072 | 0.29 | 0.31 | 58.6 |
| 4/26/2015 16:11:01 | 48.88 | 45.88 | 1,078 | 0.27 | 0.34 | 58.9 |
| 4/26/2015 16:11:04 | 49.21 | 46.21 | 44 | 4.49 | 0.37 | 2.4 |
| 4/26/2015 16:11:06 | 49.54 | 46.54 | 183 | 3.16 | 0.37 | 10.0 |
| 4/26/2015 16:11:09 | 49.87 | 46.87 | 120 | 3.87 | 0.36 | 6.5 |
| 4/26/2015 16:11:10 | 50.20 | 47.20 | 183 | 2.50 | 0.37 | 10.0 |
| 4/26/2015 16:11:11 | 50.53 | 47.53 | 249 | 2.80 | 0.37 | 13.6 |
| 4/26/2015 16:11:15 | 50.85 | 47.85 | 49 | 4.83 | 0.36 | 2.7 |
| 4/26/2015 16:11:18 | 51.18 | 48.18 | 69 | 6.45 | 0.37 | 3.8 |
| 4/26/2015 16:11:20 | 51.51 | 48.51 | 99 | 3.64 | 0.36 | 5.4 |
| 4/26/2015 16:11:21 | 51.84 | 48.84 | 242 | 3.35 | 0.38 | 13.2 |
| 4/26/2015 16:11:29 | 52.17 | 49.17 | 29 | 3.77 | 0.38 | 1.6 |
| 4/26/2015 16:11:30 | 52.49 | 49.49 | 164 | 3.50 | 0.38 | 9.0 |
| 4/26/2015 16:11:32 | 52.82 | 49.82 | 217 | 2.88 | 0.39 | 11.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 16:11:34 | 53.15 | 50.15 | 126 | 3.18 | 0.39 | 6.9 |
| 4/26/2015 | 16:11:37 | 53.48 | 50.48 | 153 | 3.54 | 0.40 | 8.4 |
| 4/26/2015 | 16:11:40 | 53.81 | 50.81 | 127 | 3.12 | 0.39 | 7.0 |
| 4/26/2015 | 16:11:45 | 54.13 | 51.13 | 44 | 2.78 | 0.40 | 2.4 |
| 4/26/2015 | 16:11:53 | 54.46 | 51.46 | 44 | 2.55 | 0.40 | 2.4 |
| 4/26/2015 | 16:12:01 | 54.79 | 51.79 | 43 | 2.62 | 0.39 | 2.4 |
| 4/26/2015 | 16:12:06 | 54.98 | 51.98 | 43 | 2.84 | 0.41 | 2.3 |

## H387 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:09:17

**End Date:**
4/26/2015 16:14:08

**Operator Note:**
'3 2.7 b Auto Complete'

**Northing:**
365,690.30

**Easting:**
250,186.87

**Tide (feet):**
3.00



## Hole: H388 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:07:36 | 32.81 | 30.11 | 694 | 1.75 | 0.29 | 37.9 |
| 4/26/2015 16:07:37 | 33.14 | 30.44 | 694 | 1.75 | 0.29 | 37.9 |
| 4/26/2015 16:07:37 | 33.46 | 30.76 | 694 | 1.75 | 0.29 | 37.9 |
| 4/26/2015 16:07:38 | 33.79 | 31.09 | 694 | 1.75 | 0.29 | 37.9 |
| 4/26/2015 16:07:39 | 34.12 | 31.42 | 690 | 1.61 | 0.29 | 37.7 |
| 4/26/2015 16:07:39 | 34.45 | 31.75 | 672 | 1.74 | 0.28 | 36.7 |
| 4/26/2015 16:07:40 | 34.78 | 32.08 | 672 | 1.75 | 0.29 | 36.7 |
| 4/26/2015 16:07:40 | 35.11 | 32.41 | 683 | 1.76 | 0.29 | 37.3 |
| 4/26/2015 16:07:41 | 35.43 | 32.73 | 684 | 1.74 | 0.29 | 37.4 |
| 4/26/2015 16:07:41 | 35.76 | 33.06 | 684 | 1.76 | 0.28 | 37.4 |
| 4/26/2015 16:07:42 | 36.09 | 33.39 | 681 | 1.74 | 0.29 | 37.2 |
| 4/26/2015 16:07:42 | 36.42 | 33.72 | 699 | 1.76 | 0.29 | 38.2 |
| 4/26/2015 16:07:43 | 36.75 | 34.05 | 688 | 1.76 | 0.35 | 37.6 |
| 4/26/2015 16:07:43 | 37.07 | 34.37 | 688 | 1.74 | 0.29 | 37.6 |
| 4/26/2015 16:07:44 | 37.40 | 34.70 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:44 | 37.73 | 35.03 | 691 | 1.75 | 0.28 | 37.8 |
| 4/26/2015 16:07:45 | 38.06 | 35.36 | 688 | 1.75 | 0.28 | 37.6 |
| 4/26/2015 16:07:45 | 38.39 | 35.69 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:46 | 38.71 | 36.01 | 684 | 1.74 | 0.28 | 37.4 |
| 4/26/2015 16:07:46 | 39.04 | 36.34 | 687 | 1.74 | 0.28 | 37.5 |
| 4/26/2015 16:07:47 | 39.37 | 36.67 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:47 | 39.70 | 37.00 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:48 | 40.03 | 37.33 | 685 | 1.75 | 0.28 | 37.5 |
| 4/26/2015 16:07:48 | 40.35 | 37.65 | 685 | 1.75 | 0.28 | 37.5 |
| 4/26/2015 16:07:49 | 40.68 | 37.98 | 686 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:50 | 41.01 | 38.31 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 16:07:50 | 41.34 | 38.64 | 681 | 1.74 | 0.28 | 37.2 |
| 4/26/2015 16:07:51 | 41.67 | 38.97 | 688 | 1.76 | 0.28 | 37.6 |
| 4/26/2015 16:07:51 | 41.99 | 39.29 | 685 | 1.74 | 0.28 | 37.5 |
| 4/26/2015 16:07:52 | 42.32 | 39.62 | 685 | 1.75 | 0.28 | 37.5 |
| 4/26/2015 16:07:52 | 42.65 | 39.95 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:53 | 42.98 | 40.28 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 16:07:53 | 43.31 | 40.61 | 679 | 1.76 | 0.26 | 37.1 |
| 4/26/2015 16:07:54 | 43.64 | 40.94 | 679 | 1.76 | 0.28 | 37.1 |
| 4/26/2015 16:07:54 | 43.96 | 41.26 | 675 | 1.75 | 0.28 | 36.9 |
| 4/26/2015 16:07:55 | 44.29 | 41.59 | 678 | 1.76 | 0.28 | 37.1 |
| 4/26/2015 16:07:55 | 44.62 | 41.92 | 679 | 1.75 | 0.28 | 37.1 |
| 4/26/2015 16:07:56 | 44.95 | 42.25 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 16:07:56 | 45.28 | 42.58 | 682 | 1.75 | 0.27 | 37.3 |
| 4/26/2015 16:07:57 | 45.60 | 42.90 | 689 | 1.75 | 0.22 | 37.7 |
| 4/26/2015 16:07:57 | 45.93 | 43.23 | 684 | 1.73 | 0.28 | 37.4 |
| 4/26/2015 16:07:58 | 46.26 | 43.56 | 679 | 1.74 | 0.28 | 37.2 |
| 4/26/2015 16:07:58 | 46.59 | 43.89 | 675 | 1.74 | 0.27 | 36.9 |
| 4/26/2015 16:07:59 | 46.92 | 44.22 | 678 | 1.74 | 0.28 | 37.1 |
| 4/26/2015 16:08:00 | 47.24 | 44.54 | 675 | 1.75 | 0.28 | 36.9 |
| 4/26/2015 16:08:00 | 47.57 | 44.87 | 664 | 1.75 | 0.28 | 36.3 |
| 4/26/2015 16:08:01 | 47.90 | 45.20 | 664 | 1.75 | 0.28 | 36.3 |
| 4/26/2015 16:08:01 | 48.23 | 45.53 | 674 | 1.74 | 0.28 | 36.9 |
| 4/26/2015 16:08:02 | 48.56 | 45.86 | 679 | 1.76 | 0.28 | 37.1 |
| 4/26/2015 16:08:18 | 48.88 | 46.18 | 9 | 1.74 | 1.18 | 0.5 |
| 4/26/2015 16:08:19 | 49.21 | 46.51 | 153 | 1.72 | 1.14 | 8.4 |
| 4/26/2015 16:08:21 | 49.54 | 46.84 | 260 | 1.74 | 1.03 | 14.2 |
| 4/26/2015 16:08:22 | 49.87 | 47.17 | 305 | 1.74 | 1.17 | 16.7 |
| 4/26/2015 16:08:38 | 50.20 | 47.50 | 87 | 1.70 | 1.07 | 4.8 |
| 4/26/2015 16:08:39 | 50.53 | 47.83 | 223 | 1.70 | 1.44 | 12.2 |
| 4/26/2015 16:08:57 | 50.85 | 48.15 | 0 | 1.69 | 1.17 | 0.0 |
| 4/26/2015 16:08:58 | 51.18 | 48.48 | 142 | 1.72 | 1.02 | 7.7 |
| 4/26/2015 16:09:00 | 51.51 | 48.81 | 243 | 1.74 | 1.07 | 13.3 |
| 4/26/2015 16:09:00 | 51.84 | 49.14 | 252 | 1.78 | 0.87 | 13.8 |
| 4/26/2015 16:09:24 | 52.17 | 49.47 | 23 | 1.74 | 1.18 | 1.3 |
| 4/26/2015 16:09:26 | 52.49 | 49.79 | 168 | 1.70 | 1.09 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 16:09:27 | 52.82 | 50.12 | 194 | 1.74 | 1.11 | 10.6 |
| 4/26/2015 | 16:09:28 | 53.15 | 50.45 | 251 | 1.68 | 1.09 | 13.7 |
| 4/26/2015 | 16:09:29 | 53.48 | 50.78 | 283 | 1.75 | 0.94 | 15.5 |
| 4/26/2015 | 16:10:21 | 53.81 | 51.11 | 24 | 1.70 | 0.86 | 1.3 |
| 4/26/2015 | 16:10:21 | 54.13 | 51.43 | 24 | 1.71 | 0.93 | 1.3 |
| 4/26/2015 | 16:10:23 | 54.46 | 51.76 | 230 | 1.71 | 0.91 | 12.6 |
| 4/26/2015 | 16:10:23 | 54.79 | 52.09 | 230 | 1.72 | 0.87 | 12.6 |
| 4/26/2015 | 16:10:25 | 55.12 | 52.42 | 344 | 1.71 | 0.85 | 18.8 |
| 4/26/2015 | 16:10:26 | 55.45 | 52.75 | 334 | 1.72 | 0.89 | 18.3 |
| 4/26/2015 | 16:10:27 | 55.77 | 53.07 | 333 | 1.71 | 0.90 | 18.2 |
| 4/26/2015 | 16:10:28 | 56.10 | 53.40 | 320 | 1.72 | 0.87 | 17.5 |
| 4/26/2015 | 16:10:29 | 56.43 | 53.73 | 314 | 1.70 | 0.87 | 17.2 |
| 4/26/2015 | 16:10:31 | 56.76 | 54.06 | 301 | 1.75 | 0.95 | 16.5 |
| 4/26/2015 | 16:10:32 | 57.09 | 54.39 | 252 | 1.76 | 1.18 | 13.8 |
| 4/26/2015 | 16:10:34 | 57.41 | 54.71 | 215 | 1.74 | 1.27 | 11.8 |
| 4/26/2015 | 16:10:36 | 57.74 | 55.04 | 201 | 1.73 | 1.09 | 11.0 |
| 4/26/2015 | 16:10:36 | 57.86 | 55.16 | 219 | 1.87 | 1.28 | 12.0 |

## H388 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:05:34

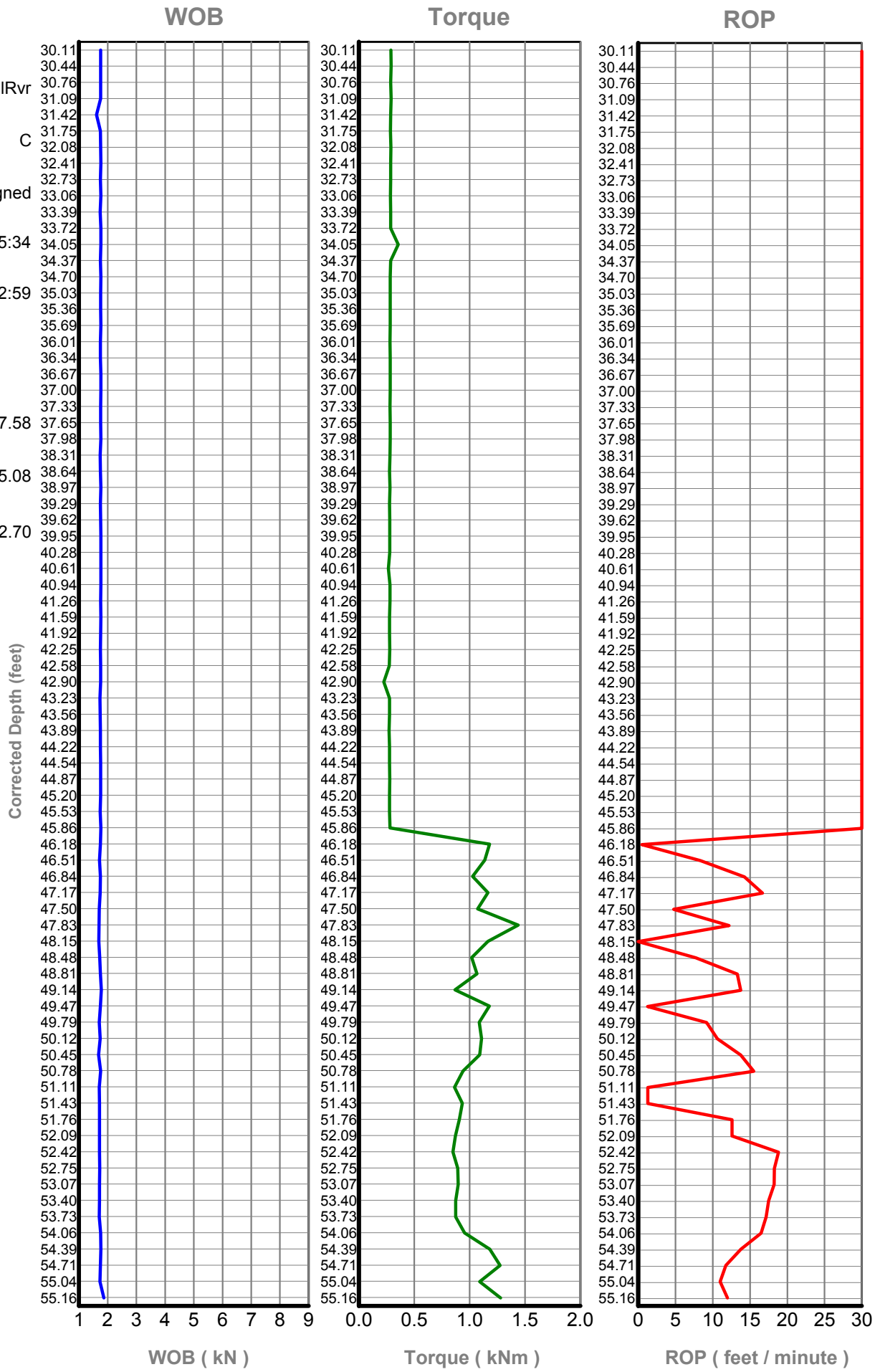
**End Date:**
4/26/2015 16:12:59

**Operator Note:**
'2.7 2.7 C Auto Complete'

**Northing:**
365,737.58

**Easting:**
250,245.08

**Tide (feet):**
2.70



## Hole: H389 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:01:59 | 34.45 | 30.15 | 930 | 0.35 | 0.32 | 50.9 |
| 4/26/2015 10:01:59 | 34.78 | 30.48 | 944 | 0.35 | 0.33 | 51.6 |
| 4/26/2015 10:01:59 | 35.11 | 30.81 | 958 | 0.35 | 0.32 | 52.4 |
| 4/26/2015 10:02:00 | 35.43 | 31.13 | 960 | 0.35 | 0.33 | 52.5 |
| 4/26/2015 10:02:00 | 35.76 | 31.46 | 960 | 0.35 | 0.33 | 52.5 |
| 4/26/2015 10:02:00 | 36.09 | 31.79 | 942 | 0.35 | 0.34 | 51.5 |
| 4/26/2015 10:02:01 | 36.42 | 32.12 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:01 | 36.75 | 32.45 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:01 | 37.07 | 32.77 | 934 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 10:02:02 | 37.40 | 33.10 | 928 | 0.35 | 0.33 | 50.7 |
| 4/26/2015 10:02:03 | 37.73 | 33.43 | 928 | 0.35 | 0.33 | 50.7 |
| 4/26/2015 10:02:03 | 38.06 | 33.76 | 928 | 0.35 | 0.33 | 50.7 |
| 4/26/2015 10:02:03 | 38.39 | 34.09 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:04 | 38.71 | 34.41 | 942 | 0.35 | 0.32 | 51.5 |
| 4/26/2015 10:02:04 | 39.04 | 34.74 | 942 | 0.35 | 0.33 | 51.5 |
| 4/26/2015 10:02:05 | 39.37 | 35.07 | 942 | 0.35 | 0.33 | 51.5 |
| 4/26/2015 10:02:05 | 39.70 | 35.40 | 930 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:05 | 40.03 | 35.73 | 930 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:06 | 40.35 | 36.05 | 930 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:06 | 40.68 | 36.38 | 942 | 0.35 | 0.32 | 51.5 |
| 4/26/2015 10:02:06 | 41.01 | 36.71 | 931 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:07 | 41.34 | 37.04 | 927 | 0.35 | 0.32 | 50.7 |
| 4/26/2015 10:02:07 | 41.67 | 37.37 | 927 | 0.35 | 0.32 | 50.7 |
| 4/26/2015 10:02:07 | 41.99 | 37.69 | 934 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 10:02:08 | 42.32 | 38.02 | 948 | 0.35 | 0.33 | 51.9 |
| 4/26/2015 10:02:08 | 42.65 | 38.35 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:09 | 42.98 | 38.68 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:09 | 43.31 | 39.01 | 943 | 0.35 | 0.33 | 51.5 |
| 4/26/2015 10:02:09 | 43.64 | 39.34 | 948 | 0.35 | 0.33 | 51.9 |
| 4/26/2015 10:02:10 | 43.96 | 39.66 | 948 | 0.35 | 0.33 | 51.9 |
| 4/26/2015 10:02:10 | 44.29 | 39.99 | 942 | 0.35 | 0.32 | 51.5 |
| 4/26/2015 10:02:10 | 44.62 | 40.32 | 942 | 0.35 | 0.32 | 51.5 |
| 4/26/2015 10:02:11 | 44.95 | 40.65 | 937 | 0.35 | 0.33 | 51.2 |
| 4/26/2015 10:02:11 | 45.28 | 40.98 | 937 | 0.35 | 0.33 | 51.2 |
| 4/26/2015 10:02:11 | 45.60 | 41.30 | 945 | 0.35 | 0.33 | 51.7 |
| 4/26/2015 10:02:12 | 45.93 | 41.63 | 937 | 0.35 | 0.33 | 51.2 |
| 4/26/2015 10:02:12 | 46.26 | 41.96 | 934 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 10:02:13 | 46.59 | 42.29 | 934 | 0.35 | 0.33 | 51.1 |
| 4/26/2015 10:02:13 | 46.92 | 42.62 | 931 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:14 | 47.24 | 42.94 | 940 | 0.35 | 0.33 | 51.4 |
| 4/26/2015 10:02:14 | 47.57 | 43.27 | 931 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:15 | 47.90 | 43.60 | 931 | 0.35 | 0.33 | 50.9 |
| 4/26/2015 10:02:15 | 48.23 | 43.93 | 934 | 0.35 | 0.32 | 51.1 |
| 4/26/2015 10:02:15 | 48.56 | 44.26 | 905 | 0.35 | 0.33 | 49.5 |
| 4/26/2015 10:02:16 | 48.88 | 44.58 | 905 | 0.35 | 0.33 | 49.5 |
| 4/26/2015 10:02:16 | 49.21 | 44.91 | 905 | 0.35 | 0.33 | 49.5 |
| 4/26/2015 10:02:16 | 49.54 | 45.24 | 926 | 0.37 | 0.32 | 50.6 |
| 4/26/2015 10:02:17 | 49.87 | 45.57 | 923 | 0.34 | 0.35 | 50.5 |
| 4/26/2015 10:02:29 | 50.20 | 45.90 | 0 | 2.36 | 0.33 | 0.0 |
| 4/26/2015 10:02:30 | 50.53 | 46.23 | 0 | 2.65 | 0.35 | 0.0 |
| 4/26/2015 10:02:30 | 50.85 | 46.55 | 0 | 2.65 | 0.35 | 0.0 |
| 4/26/2015 10:02:31 | 51.18 | 46.88 | 231 | 6.83 | 0.40 | 12.6 |
| 4/26/2015 10:02:34 | 51.51 | 47.21 | 199 | 4.30 | 0.39 | 10.9 |
| 4/26/2015 10:02:36 | 51.84 | 47.54 | 135 | 4.21 | 0.38 | 7.4 |
| 4/26/2015 10:02:38 | 52.17 | 47.87 | 123 | 3.15 | 0.39 | 6.7 |
| 4/26/2015 10:02:40 | 52.49 | 48.19 | 167 | 4.05 | 0.39 | 9.1 |
| 4/26/2015 10:02:41 | 52.82 | 48.52 | 159 | 3.52 | 0.38 | 8.7 |
| 4/26/2015 10:02:44 | 53.15 | 48.85 | 176 | 4.01 | 0.39 | 9.6 |
| 4/26/2015 10:02:46 | 53.48 | 49.18 | 110 | 4.09 | 0.39 | 6.0 |
| 4/26/2015 10:02:48 | 53.81 | 49.51 | 170 | 4.90 | 0.40 | 9.3 |
| 4/26/2015 10:02:50 | 54.13 | 49.83 | 159 | 3.64 | 0.38 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 10:03:21 | 54.46 | 50.16 | 20 | 3.07 | 0.40 | 1.1 |
| 4/26/2015 | 10:03:29 | 54.79 | 50.49 | 48 | 3.52 | 0.40 | 2.6 |
| 4/26/2015 | 10:03:35 | 55.12 | 50.82 | 58 | 4.17 | 0.40 | 3.2 |
| 4/26/2015 | 10:03:42 | 55.45 | 51.15 | 52 | 3.39 | 0.38 | 2.8 |
| 4/26/2015 | 10:03:42 | 55.48 | 51.18 | 52 | 3.67 | 0.40 | 2.8 |

## H389 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/26/2015 10:00:52

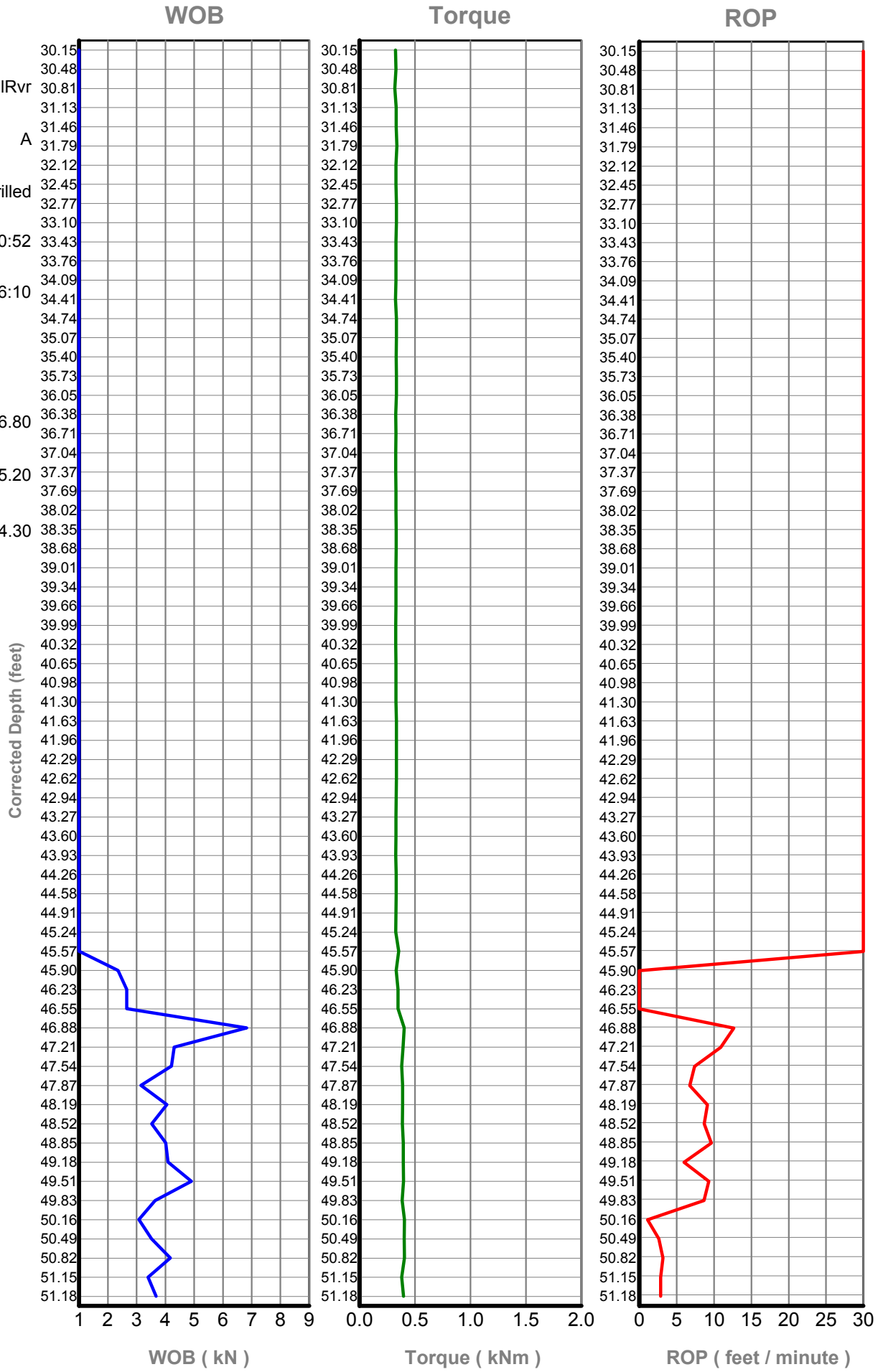
**End Date:**
4/26/2015 10:06:10

**Operator Note:**
'4.3 4.3 b Rock'

**Northing:**
365,786.80

**Easting:**
250,305.20

**Tide (feet):**
4.30



## Hole: H39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:06:59 | 30.51 | 30.21 | 555 | 1.98 | 0.18 | 30.4 |
| 4/23/2015 23:07:00 | 30.84 | 30.54 | 555 | 1.99 | 0.18 | 30.4 |
| 4/23/2015 23:07:00 | 31.17 | 30.87 | 561 | 2.02 | 0.18 | 30.7 |
| 4/23/2015 23:07:01 | 31.50 | 31.20 | 555 | 2.02 | 0.18 | 30.4 |
| 4/23/2015 23:07:01 | 31.82 | 31.52 | 552 | 2.00 | 0.18 | 30.2 |
| 4/23/2015 23:07:02 | 32.15 | 31.85 | 558 | 2.02 | 0.18 | 30.5 |
| 4/23/2015 23:07:03 | 32.48 | 32.18 | 555 | 2.03 | 0.18 | 30.3 |
| 4/23/2015 23:07:03 | 32.81 | 32.51 | 555 | 2.00 | 0.18 | 30.3 |
| 4/23/2015 23:07:04 | 33.14 | 32.84 | 552 | 2.02 | 0.18 | 30.2 |
| 4/23/2015 23:07:05 | 33.46 | 33.16 | 555 | 2.01 | 0.18 | 30.4 |
| 4/23/2015 23:07:05 | 33.79 | 33.49 | 555 | 2.04 | 0.18 | 30.4 |
| 4/23/2015 23:07:06 | 34.12 | 33.82 | 555 | 2.02 | 0.18 | 30.4 |
| 4/23/2015 23:07:06 | 34.45 | 34.15 | 558 | 2.01 | 0.18 | 30.5 |
| 4/23/2015 23:07:08 | 34.78 | 34.48 | 552 | 2.02 | 0.17 | 30.2 |
| 4/23/2015 23:07:08 | 35.11 | 34.81 | 546 | 2.03 | 0.18 | 29.8 |
| 4/23/2015 23:07:09 | 35.43 | 35.13 | 556 | 2.02 | 0.18 | 30.4 |
| 4/23/2015 23:07:09 | 35.76 | 35.46 | 553 | 2.00 | 0.18 | 30.2 |
| 4/23/2015 23:07:10 | 36.09 | 35.79 | 550 | 2.00 | 0.17 | 30.1 |
| 4/23/2015 23:07:11 | 36.42 | 36.12 | 553 | 1.99 | 0.18 | 30.2 |
| 4/23/2015 23:07:11 | 36.75 | 36.45 | 546 | 2.00 | 0.18 | 29.9 |
| 4/23/2015 23:07:12 | 37.07 | 36.77 | 540 | 2.03 | 0.18 | 29.5 |
| 4/23/2015 23:07:13 | 37.40 | 37.10 | 547 | 1.98 | 0.19 | 29.9 |
| 4/23/2015 23:07:13 | 37.73 | 37.43 | 544 | 1.99 | 0.18 | 29.7 |
| 4/23/2015 23:07:14 | 38.06 | 37.76 | 541 | 2.00 | 0.17 | 29.6 |
| 4/23/2015 23:07:14 | 38.39 | 38.09 | 544 | 2.01 | 0.17 | 29.7 |
| 4/23/2015 23:07:15 | 38.71 | 38.41 | 541 | 1.98 | 0.17 | 29.6 |
| 4/23/2015 23:07:16 | 39.04 | 38.74 | 544 | 1.99 | 0.18 | 29.8 |
| 4/23/2015 23:07:16 | 39.37 | 39.07 | 535 | 2.00 | 0.17 | 29.3 |
| 4/23/2015 23:07:17 | 39.70 | 39.40 | 529 | 2.01 | 0.17 | 28.9 |
| 4/23/2015 23:07:18 | 40.03 | 39.73 | 536 | 2.01 | 0.18 | 29.3 |
| 4/23/2015 23:07:19 | 40.35 | 40.05 | 533 | 2.00 | 0.17 | 29.1 |
| 4/23/2015 23:07:19 | 40.68 | 40.38 | 542 | 2.00 | 0.17 | 29.6 |
| 4/23/2015 23:07:20 | 41.01 | 40.71 | 533 | 2.00 | 0.11 | 29.1 |
| 4/23/2015 23:07:21 | 41.34 | 41.04 | 517 | 2.00 | 0.18 | 28.3 |
| 4/23/2015 23:07:21 | 41.67 | 41.37 | 518 | 2.02 | 0.17 | 28.3 |
| 4/23/2015 23:07:22 | 41.99 | 41.69 | 506 | 1.99 | 0.17 | 27.7 |
| 4/23/2015 23:07:23 | 42.32 | 42.02 | 497 | 2.01 | 0.17 | 27.2 |
| 4/23/2015 23:07:24 | 42.65 | 42.35 | 490 | 1.98 | 0.17 | 26.8 |
| 4/23/2015 23:07:24 | 42.98 | 42.68 | 494 | 1.98 | 0.17 | 27.0 |
| 4/23/2015 23:07:25 | 43.31 | 43.01 | 493 | 2.03 | 0.17 | 27.0 |
| 4/23/2015 23:07:26 | 43.64 | 43.34 | 502 | 1.99 | 0.17 | 27.5 |
| 4/23/2015 23:07:26 | 43.96 | 43.66 | 510 | 2.02 | 0.17 | 27.9 |
| 4/23/2015 23:07:27 | 44.29 | 43.99 | 500 | 2.00 | 0.17 | 27.3 |
| 4/23/2015 23:07:28 | 44.62 | 44.32 | 500 | 1.99 | 0.18 | 27.4 |
| 4/23/2015 23:07:29 | 44.95 | 44.65 | 500 | 1.98 | 0.17 | 27.4 |
| 4/23/2015 23:07:30 | 45.28 | 44.98 | 500 | 1.98 | 0.17 | 27.4 |
| 4/23/2015 23:07:30 | 45.60 | 45.30 | 497 | 1.99 | 0.17 | 27.2 |
| 4/23/2015 23:07:31 | 45.93 | 45.63 | 497 | 1.99 | 0.17 | 27.2 |
| 4/23/2015 23:07:32 | 46.26 | 45.96 | 497 | 2.01 | 0.18 | 27.2 |
| 4/23/2015 23:07:32 | 46.59 | 46.29 | 494 | 2.00 | 0.17 | 27.0 |
| 4/23/2015 23:07:33 | 46.92 | 46.62 | 491 | 1.98 | 0.18 | 26.9 |
| 4/23/2015 23:08:00 | 47.24 | 46.94 | 72 | 2.02 | 1.27 | 4.0 |
| 4/23/2015 23:08:07 | 47.57 | 47.27 | 46 | 2.01 | 1.32 | 2.5 |
| 4/23/2015 23:08:12 | 47.90 | 47.60 | 90 | 2.01 | 1.23 | 4.9 |
| 4/23/2015 23:08:21 | 48.23 | 47.93 | 38 | 2.01 | 1.22 | 2.1 |
| 4/23/2015 23:08:25 | 48.39 | 48.09 | 40 | 2.02 | 1.19 | 2.2 |

## H39 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:05:20

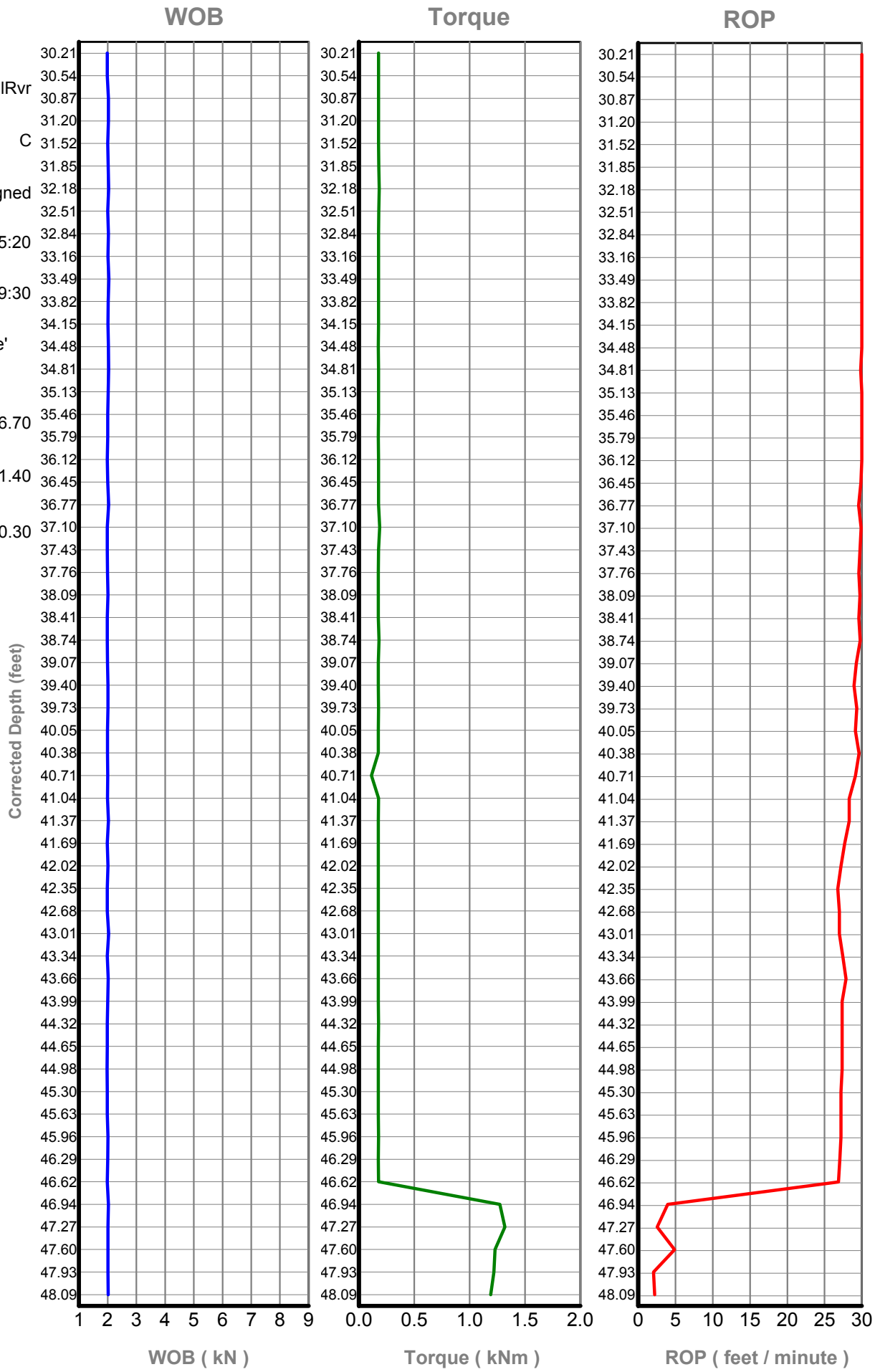
**End Date:**
4/23/2015 23:09:30

**Operator Note:**
'0.3 0.5 c Auto Complete'

**Northing:**
367,386.70

**Easting:**
251,211.40

**Tide (feet):**
0.30



## Hole: H390 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 8:47:01 | 35.76 | 30.26 | 797 | 0.39 | 0.35 | 43.6 |
| 4/26/2015 8:47:01 | 36.09 | 30.59 | 797 | 0.39 | 0.35 | 43.6 |
| 4/26/2015 8:47:01 | 36.42 | 30.92 | 774 | 0.40 | 0.34 | 42.3 |
| 4/26/2015 8:47:02 | 36.75 | 31.25 | 786 | 0.39 | 0.34 | 43.0 |
| 4/26/2015 8:47:02 | 37.07 | 31.57 | 785 | 0.40 | 0.34 | 42.9 |
| 4/26/2015 8:47:03 | 37.40 | 31.90 | 808 | 0.40 | 0.34 | 44.2 |
| 4/26/2015 8:47:03 | 37.73 | 32.23 | 801 | 0.40 | 0.34 | 43.8 |
| 4/26/2015 8:47:04 | 38.06 | 32.56 | 821 | 0.40 | 0.34 | 44.9 |
| 4/26/2015 8:47:04 | 38.39 | 32.89 | 821 | 0.40 | 0.34 | 44.9 |
| 4/26/2015 8:47:04 | 38.71 | 33.21 | 820 | 0.40 | 0.34 | 44.8 |
| 4/26/2015 8:47:05 | 39.04 | 33.54 | 820 | 0.43 | 0.34 | 44.8 |
| 4/26/2015 8:47:05 | 39.37 | 33.87 | 789 | 0.40 | 0.34 | 43.2 |
| 4/26/2015 8:47:06 | 39.70 | 34.20 | 789 | 0.40 | 0.34 | 43.2 |
| 4/26/2015 8:47:07 | 40.03 | 34.53 | 787 | 0.41 | 0.34 | 43.0 |
| 4/26/2015 8:47:07 | 40.35 | 34.85 | 787 | 0.41 | 0.34 | 43.0 |
| 4/26/2015 8:47:07 | 40.68 | 35.18 | 787 | 0.39 | 0.34 | 43.0 |
| 4/26/2015 8:47:08 | 41.01 | 35.51 | 787 | 0.40 | 0.34 | 43.0 |
| 4/26/2015 8:47:08 | 41.34 | 35.84 | 787 | 0.40 | 0.34 | 43.0 |
| 4/26/2015 8:47:09 | 41.67 | 36.17 | 798 | 0.41 | 0.34 | 43.6 |
| 4/26/2015 8:47:09 | 41.99 | 36.49 | 805 | 0.41 | 0.34 | 44.0 |
| 4/26/2015 8:47:10 | 42.32 | 36.82 | 826 | 0.40 | 0.35 | 45.2 |
| 4/26/2015 8:47:10 | 42.65 | 37.15 | 826 | 0.40 | 0.35 | 45.2 |
| 4/26/2015 8:47:10 | 42.98 | 37.48 | 810 | 0.37 | 0.34 | 44.3 |
| 4/26/2015 8:47:11 | 43.31 | 37.81 | 803 | 0.41 | 0.34 | 43.9 |
| 4/26/2015 8:47:11 | 43.64 | 38.14 | 803 | 0.40 | 0.34 | 43.9 |
| 4/26/2015 8:47:12 | 43.96 | 38.46 | 794 | 0.41 | 0.35 | 43.4 |
| 4/26/2015 8:47:12 | 44.29 | 38.79 | 791 | 0.40 | 0.34 | 43.2 |
| 4/26/2015 8:47:13 | 44.62 | 39.12 | 791 | 0.41 | 0.34 | 43.2 |
| 4/26/2015 8:47:13 | 44.95 | 39.45 | 791 | 0.41 | 0.34 | 43.2 |
| 4/26/2015 8:47:13 | 45.28 | 39.78 | 795 | 0.41 | 0.34 | 43.5 |
| 4/26/2015 8:47:14 | 45.60 | 40.10 | 799 | 0.41 | 0.34 | 43.7 |
| 4/26/2015 8:47:14 | 45.93 | 40.43 | 799 | 0.41 | 0.34 | 43.7 |
| 4/26/2015 8:47:15 | 46.26 | 40.76 | 801 | 0.41 | 0.34 | 43.8 |
| 4/26/2015 8:47:15 | 46.59 | 41.09 | 801 | 0.41 | 0.34 | 43.8 |
| 4/26/2015 8:47:16 | 46.92 | 41.42 | 801 | 0.41 | 0.34 | 43.8 |
| 4/26/2015 8:47:16 | 47.24 | 41.74 | 801 | 0.40 | 0.34 | 43.8 |
| 4/26/2015 8:47:17 | 47.57 | 42.07 | 801 | 0.41 | 0.35 | 43.8 |
| 4/26/2015 8:47:17 | 47.90 | 42.40 | 806 | 0.41 | 0.34 | 44.1 |
| 4/26/2015 8:47:18 | 48.23 | 42.73 | 813 | 0.41 | 0.34 | 44.4 |
| 4/26/2015 8:47:18 | 48.56 | 43.06 | 818 | 0.41 | 0.34 | 44.7 |
| 4/26/2015 8:47:19 | 48.88 | 43.38 | 810 | 0.41 | 0.34 | 44.3 |
| 4/26/2015 8:47:19 | 49.21 | 43.71 | 810 | 0.41 | 0.34 | 44.3 |
| 4/26/2015 8:47:19 | 49.54 | 44.04 | 807 | 0.41 | 0.34 | 44.1 |
| 4/26/2015 8:47:20 | 49.87 | 44.37 | 805 | 0.41 | 0.34 | 44.0 |
| 4/26/2015 8:47:20 | 50.20 | 44.70 | 801 | 0.41 | 0.34 | 43.8 |
| 4/26/2015 8:47:21 | 50.53 | 45.03 | 804 | 0.41 | 0.34 | 43.9 |
| 4/26/2015 8:47:21 | 50.85 | 45.35 | 807 | 0.40 | 0.34 | 44.1 |
| 4/26/2015 8:47:22 | 51.18 | 45.68 | 804 | 0.40 | 0.35 | 43.9 |
| 4/26/2015 8:47:22 | 51.51 | 46.01 | 795 | 0.39 | 0.37 | 43.5 |
| 4/26/2015 8:47:54 | 51.84 | 46.34 | 0 | 3.25 | 0.36 | 0.0 |
| 4/26/2015 8:47:59 | 52.17 | 46.67 | 0 | 3.86 | 0.40 | 0.0 |
| 4/26/2015 8:48:16 | 52.49 | 46.99 | 26 | 3.73 | 0.38 | 1.4 |
| 4/26/2015 8:48:17 | 52.82 | 47.32 | 135 | 4.13 | 0.38 | 7.4 |
| 4/26/2015 8:48:22 | 53.15 | 47.65 | 29 | 4.02 | 0.38 | 1.6 |
| 4/26/2015 8:48:23 | 53.48 | 47.98 | 180 | 3.52 | 0.37 | 9.8 |
| 4/26/2015 8:48:41 | 53.81 | 48.31 | 31 | 3.87 | 0.38 | 1.7 |
| 4/26/2015 8:48:42 | 54.13 | 48.63 | 102 | 3.35 | 0.38 | 5.6 |
| 4/26/2015 8:48:43 | 54.46 | 48.96 | 256 | 3.41 | 0.38 | 14.0 |
| 4/26/2015 8:49:07 | 54.79 | 49.29 | 98 | 4.10 | 0.39 | 5.4 |
| 4/26/2015 8:49:09 | 55.12 | 49.62 | 191 | 4.63 | 0.39 | 10.4 |
| 4/26/2015 8:49:18 | 55.45 | 49.95 | 38 | 4.98 | 0.38 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 8:49:20 | 55.77 | 50.27 | 204 | 4.57 | 0.40 | 11.1 |
| 4/26/2015 | 8:49:23 | 56.10 | 50.60 | 162 | 4.11 | 0.38 | 8.9 |
| 4/26/2015 | 8:49:25 | 56.43 | 50.93 | 150 | 4.31 | 0.40 | 8.2 |
| 4/26/2015 | 8:51:04 | 56.76 | 51.26 | 9 | 4.11 | 0.38 | 0.5 |
| 4/26/2015 | 8:51:10 | 57.09 | 51.59 | 41 | 2.76 | 0.37 | 2.3 |
| 4/26/2015 | 8:51:10 | 57.41 | 51.91 | 138 | 3.18 | 0.37 | 7.6 |
| 4/26/2015 | 8:51:25 | 57.74 | 52.24 | 105 | 2.60 | 0.37 | 5.7 |
| 4/26/2015 | 8:51:25 | 58.07 | 52.57 | 179 | 2.63 | 0.38 | 9.8 |
| 4/26/2015 | 8:51:51 | 58.40 | 52.90 | 0 | 5.12 | 0.36 | 0.0 |
| 4/26/2015 | 8:51:52 | 58.73 | 53.23 | 38 | 6.10 | 0.38 | 2.1 |
| 4/26/2015 | 8:51:53 | 59.06 | 53.56 | 186 | 4.19 | 0.38 | 10.2 |
| 4/26/2015 | 8:51:58 | 59.38 | 53.88 | 0 | 2.76 | 0.37 | 0.0 |
| 4/26/2015 | 8:51:59 | 59.71 | 54.21 | 153 | 5.70 | 0.40 | 8.4 |
| 4/26/2015 | 8:52:08 | 60.04 | 54.54 | 79 | 4.37 | 0.39 | 4.3 |
| 4/26/2015 | 8:52:10 | 60.37 | 54.87 | 241 | 4.64 | 0.39 | 13.2 |
| 4/26/2015 | 8:52:23 | 60.70 | 55.20 | 90 | 3.65 | 0.39 | 4.9 |
| 4/26/2015 | 8:52:35 | 61.02 | 55.52 | 45 | 3.69 | 0.40 | 2.5 |
| 4/26/2015 | 8:52:40 | 61.35 | 55.85 | 66 | 3.79 | 0.40 | 3.6 |
| 4/26/2015 | 8:53:38 | 61.68 | 56.18 | 6 | 3.90 | 0.40 | 0.3 |
| 4/26/2015 | 8:53:54 | 62.01 | 56.51 | 17 | 3.20 | 0.40 | 1.0 |
| 4/26/2015 | 8:54:06 | 62.34 | 56.84 | 67 | 3.67 | 0.41 | 3.6 |
| 4/26/2015 | 8:54:10 | 62.66 | 57.16 | 68 | 3.89 | 0.40 | 3.7 |
| 4/26/2015 | 8:56:15 | 62.99 | 57.49 | 64 | 3.82 | 0.40 | 3.5 |
| 4/26/2015 | 8:56:24 | 63.32 | 57.82 | 66 | 3.58 | 0.40 | 3.6 |
| 4/26/2015 | 8:56:36 | 63.65 | 58.15 | 15 | 3.57 | 0.40 | 0.8 |
| 4/26/2015 | 8:56:41 | 63.98 | 58.48 | 68 | 4.37 | 0.40 | 3.7 |
| 4/26/2015 | 8:56:56 | 64.30 | 58.80 | 23 | 4.02 | 0.41 | 1.3 |
| 4/26/2015 | 8:57:02 | 64.63 | 59.13 | 73 | 4.24 | 0.40 | 4.0 |
| 4/26/2015 | 8:57:05 | 64.96 | 59.46 | 85 | 3.71 | 0.40 | 4.7 |
| 4/26/2015 | 8:57:21 | 65.29 | 59.79 | 67 | 3.43 | 0.40 | 3.7 |
| 4/26/2015 | 8:57:25 | 65.62 | 60.12 | 82 | 3.50 | 0.40 | 4.5 |
| 4/26/2015 | 8:57:33 | 65.95 | 60.45 | 0 | 3.64 | 0.37 | 0.0 |
| 4/26/2015 | 8:57:34 | 66.27 | 60.77 | 137 | 3.51 | 0.38 | 7.5 |
| 4/26/2015 | 8:57:40 | 66.60 | 61.10 | 29 | 3.39 | 0.40 | 1.6 |
| 4/26/2015 | 8:57:43 | 66.93 | 61.43 | 101 | 3.33 | 0.40 | 5.5 |
| 4/26/2015 | 8:57:48 | 67.26 | 61.76 | 77 | 4.15 | 0.40 | 4.2 |
| 4/26/2015 | 8:57:59 | 67.59 | 62.09 | 17 | 3.51 | 0.41 | 0.9 |
| 4/26/2015 | 8:58:17 | 67.91 | 62.41 | 33 | 3.64 | 0.40 | 1.8 |
| 4/26/2015 | 8:58:23 | 68.24 | 62.74 | 60 | 3.96 | 0.40 | 3.3 |
| 4/26/2015 | 8:58:33 | 68.57 | 63.07 | 26 | 3.89 | 0.41 | 1.4 |
| 4/26/2015 | 8:58:38 | 68.90 | 63.40 | 72 | 4.00 | 0.40 | 3.9 |
| 4/26/2015 | 8:58:42 | 69.17 | 63.67 | 63 | 4.39 | 0.40 | 3.5 |

## H390 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 8:44:21

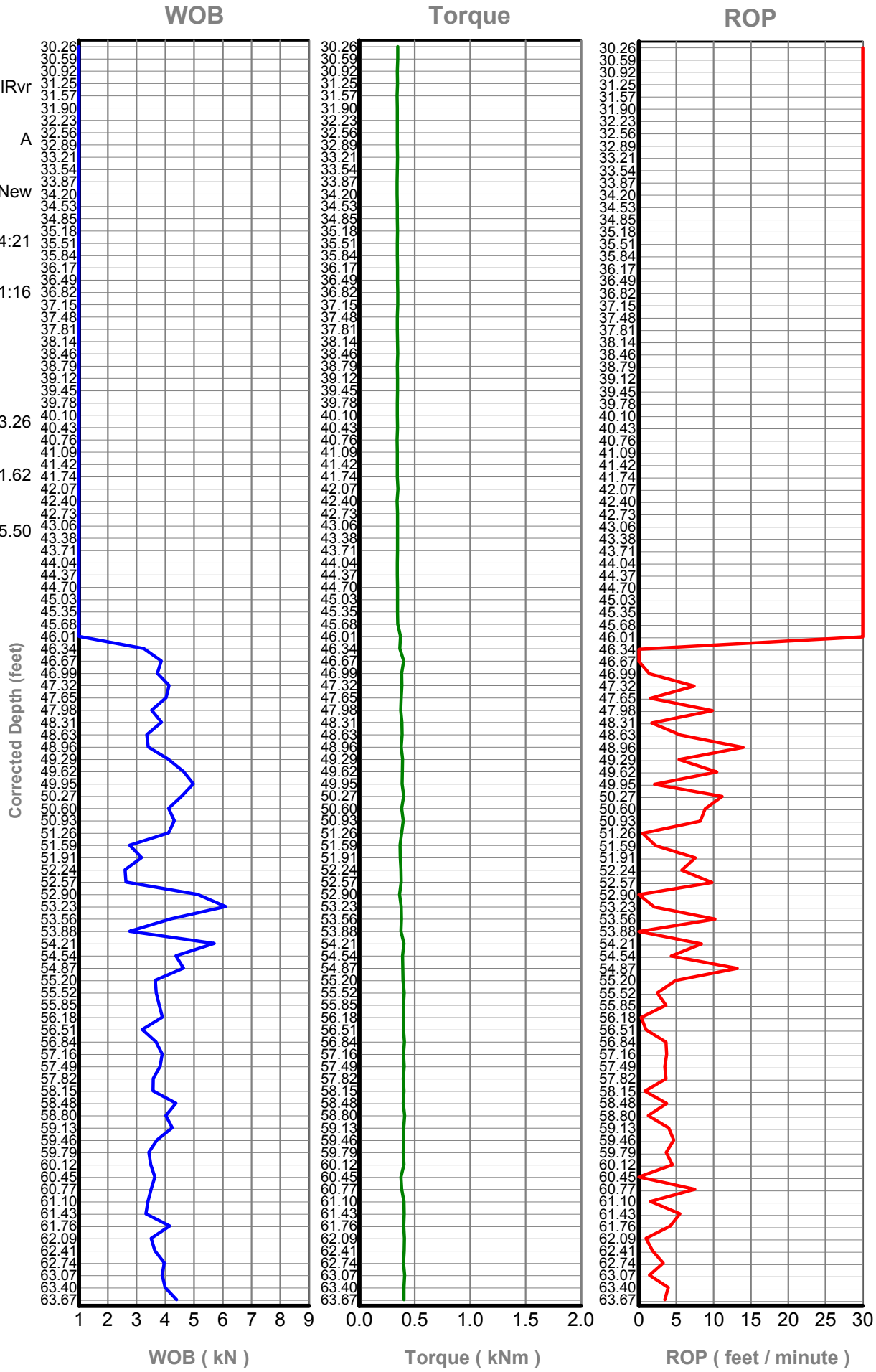
**End Date:**
4/26/2015 9:51:16

**Operator Note:**
'5.5 '4.5 6.1 b Drill down to deck level to fix leak

**Northing:**
365,823.26

**Easting:**
250,351.62

**Tide (feet):**
5.50



## Hole: H391 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 10:10:08 | 34.45 | 30.15 | 474 | 1.81 | 0.33 | 25.9 |
| 4/26/2015 10:10:09 | 34.78 | 30.48 | 480 | 1.80 | 0.33 | 26.2 |
| 4/26/2015 10:10:10 | 35.11 | 30.81 | 480 | 1.81 | 0.33 | 26.2 |
| 4/26/2015 10:10:10 | 35.43 | 31.13 | 477 | 1.79 | 0.33 | 26.1 |
| 4/26/2015 10:10:11 | 35.76 | 31.46 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:12 | 36.09 | 31.79 | 480 | 1.82 | 0.32 | 26.2 |
| 4/26/2015 10:10:13 | 36.42 | 32.12 | 472 | 1.81 | 0.32 | 25.8 |
| 4/26/2015 10:10:14 | 36.75 | 32.45 | 475 | 1.81 | 0.32 | 26.0 |
| 4/26/2015 10:10:15 | 37.07 | 32.77 | 481 | 1.81 | 0.32 | 26.3 |
| 4/26/2015 10:10:15 | 37.40 | 33.10 | 461 | 1.78 | 0.32 | 25.2 |
| 4/26/2015 10:10:16 | 37.73 | 33.43 | 461 | 1.81 | 0.32 | 25.2 |
| 4/26/2015 10:10:17 | 38.06 | 33.76 | 472 | 1.79 | 0.32 | 25.8 |
| 4/26/2015 10:10:17 | 38.39 | 34.09 | 474 | 1.80 | 0.32 | 25.9 |
| 4/26/2015 10:10:18 | 38.71 | 34.41 | 486 | 1.81 | 0.32 | 26.6 |
| 4/26/2015 10:10:19 | 39.04 | 34.74 | 480 | 1.81 | 0.32 | 26.2 |
| 4/26/2015 10:10:20 | 39.37 | 35.07 | 474 | 1.82 | 0.32 | 25.9 |
| 4/26/2015 10:10:20 | 39.70 | 35.40 | 477 | 1.80 | 0.32 | 26.1 |
| 4/26/2015 10:10:21 | 40.03 | 35.73 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:22 | 40.35 | 36.05 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:23 | 40.68 | 36.38 | 483 | 1.81 | 0.32 | 26.4 |
| 4/26/2015 10:10:24 | 41.01 | 36.71 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:24 | 41.34 | 37.04 | 474 | 1.81 | 0.32 | 25.9 |
| 4/26/2015 10:10:25 | 41.67 | 37.37 | 471 | 1.81 | 0.32 | 25.8 |
| 4/26/2015 10:10:26 | 41.99 | 37.69 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:27 | 42.32 | 38.02 | 477 | 1.81 | 0.32 | 26.1 |
| 4/26/2015 10:10:27 | 42.65 | 38.35 | 477 | 1.80 | 0.32 | 26.1 |
| 4/26/2015 10:10:28 | 42.98 | 38.68 | 480 | 1.81 | 0.32 | 26.2 |
| 4/26/2015 10:10:29 | 43.31 | 39.01 | 469 | 1.81 | 0.32 | 25.6 |
| 4/26/2015 10:10:29 | 43.64 | 39.34 | 475 | 1.79 | 0.33 | 26.0 |
| 4/26/2015 10:10:30 | 43.96 | 39.66 | 464 | 1.81 | 0.33 | 25.4 |
| 4/26/2015 10:10:31 | 44.29 | 39.99 | 469 | 1.80 | 0.32 | 25.7 |
| 4/26/2015 10:10:32 | 44.62 | 40.32 | 474 | 1.81 | 0.32 | 25.9 |
| 4/26/2015 10:10:33 | 44.95 | 40.65 | 471 | 1.81 | 0.32 | 25.8 |
| 4/26/2015 10:10:34 | 45.28 | 40.98 | 461 | 1.81 | 0.32 | 25.2 |
| 4/26/2015 10:10:34 | 45.60 | 41.30 | 461 | 1.79 | 0.33 | 25.2 |
| 4/26/2015 10:10:35 | 45.93 | 41.63 | 470 | 1.79 | 0.33 | 25.7 |
| 4/26/2015 10:10:36 | 46.26 | 41.96 | 470 | 1.80 | 0.32 | 25.7 |
| 4/26/2015 10:10:36 | 46.59 | 42.29 | 460 | 1.81 | 0.32 | 25.2 |
| 4/26/2015 10:10:37 | 46.92 | 42.62 | 478 | 1.80 | 0.32 | 26.1 |
| 4/26/2015 10:10:38 | 47.24 | 42.94 | 475 | 1.81 | 0.32 | 25.9 |
| 4/26/2015 10:10:39 | 47.57 | 43.27 | 469 | 1.81 | 0.32 | 25.6 |
| 4/26/2015 10:10:39 | 47.90 | 43.60 | 482 | 1.80 | 0.32 | 26.3 |
| 4/26/2015 10:10:40 | 48.23 | 43.93 | 474 | 1.80 | 0.32 | 25.9 |
| 4/26/2015 10:10:41 | 48.56 | 44.26 | 466 | 1.80 | 0.32 | 25.5 |
| 4/26/2015 10:11:05 | 48.88 | 44.58 | 20 | 1.80 | 1.19 | 1.1 |
| 4/26/2015 10:11:06 | 49.21 | 44.91 | 151 | 1.80 | 1.49 | 8.3 |
| 4/26/2015 10:11:08 | 49.54 | 45.24 | 153 | 1.74 | 1.12 | 8.4 |
| 4/26/2015 10:11:42 | 49.87 | 45.57 | 0 | 1.77 | 1.52 | 0.0 |
| 4/26/2015 10:12:23 | 50.20 | 45.90 | 98 | 1.77 | 1.09 | 5.4 |
| 4/26/2015 10:12:40 | 50.53 | 46.23 | 24 | 1.74 | 1.11 | 1.3 |
| 4/26/2015 10:12:42 | 50.85 | 46.55 | 147 | 1.76 | 1.15 | 8.1 |
| 4/26/2015 10:12:43 | 51.18 | 46.88 | 223 | 1.77 | 1.09 | 12.2 |
| 4/26/2015 10:12:45 | 51.51 | 47.21 | 243 | 1.76 | 1.16 | 13.3 |
| 4/26/2015 10:12:46 | 51.84 | 47.54 | 223 | 1.76 | 1.27 | 12.2 |
| 4/26/2015 10:12:48 | 52.17 | 47.87 | 225 | 1.74 | 1.23 | 12.3 |
| 4/26/2015 10:13:42 | 52.49 | 48.19 | 14 | 1.76 | 1.24 | 0.8 |
| 4/26/2015 10:13:44 | 52.82 | 48.52 | 145 | 1.80 | 1.12 | 7.9 |
| 4/26/2015 10:13:46 | 53.15 | 48.85 | 158 | 1.78 | 1.18 | 8.7 |
| 4/26/2015 10:14:53 | 53.48 | 49.18 | 6 | 1.76 | 1.09 | 0.3 |
| 4/26/2015 10:14:54 | 53.81 | 49.51 | 101 | 1.73 | 1.07 | 5.6 |
| 4/26/2015 10:15:46 | 54.13 | 49.83 | 132 | 1.71 | 1.03 | 7.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 10:15:47 | 54.46 | 50.16 | 251 | 1.73 | 0.91 | 13.7 |
| 4/26/2015 | 10:15:48 | 54.79 | 50.49 | 315 | 1.74 | 1.08 | 17.2 |
| 4/26/2015 | 10:15:48 | 55.12 | 50.82 | 338 | 1.74 | 0.90 | 18.5 |
| 4/26/2015 | 10:15:49 | 55.45 | 51.15 | 382 | 1.74 | 0.90 | 20.9 |
| 4/26/2015 | 10:15:50 | 55.77 | 51.47 | 402 | 1.80 | 0.89 | 22.0 |
| 4/26/2015 | 10:16:23 | 56.10 | 51.80 | 8 | 1.74 | 1.15 | 0.4 |
| 4/26/2015 | 10:16:24 | 56.43 | 52.13 | 153 | 1.75 | 0.89 | 8.3 |
| 4/26/2015 | 10:16:25 | 56.76 | 52.46 | 233 | 1.81 | 0.91 | 12.7 |
| 4/26/2015 | 10:16:37 | 57.09 | 52.79 | 26 | 1.78 | 1.27 | 1.4 |
| 4/26/2015 | 10:16:41 | 57.41 | 53.11 | 78 | 1.79 | 1.23 | 4.3 |
| 4/26/2015 | 10:16:45 | 57.74 | 53.44 | 84 | 1.78 | 1.19 | 4.6 |
| 4/26/2015 | 10:16:49 | 58.07 | 53.77 | 109 | 1.76 | 1.18 | 5.9 |
| 4/26/2015 | 10:16:55 | 58.40 | 54.10 | 35 | 1.79 | 1.12 | 1.9 |
| 4/26/2015 | 10:16:59 | 58.51 | 54.21 | 29 | 1.79 | 1.17 | 1.6 |

## H391 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 10:08:20

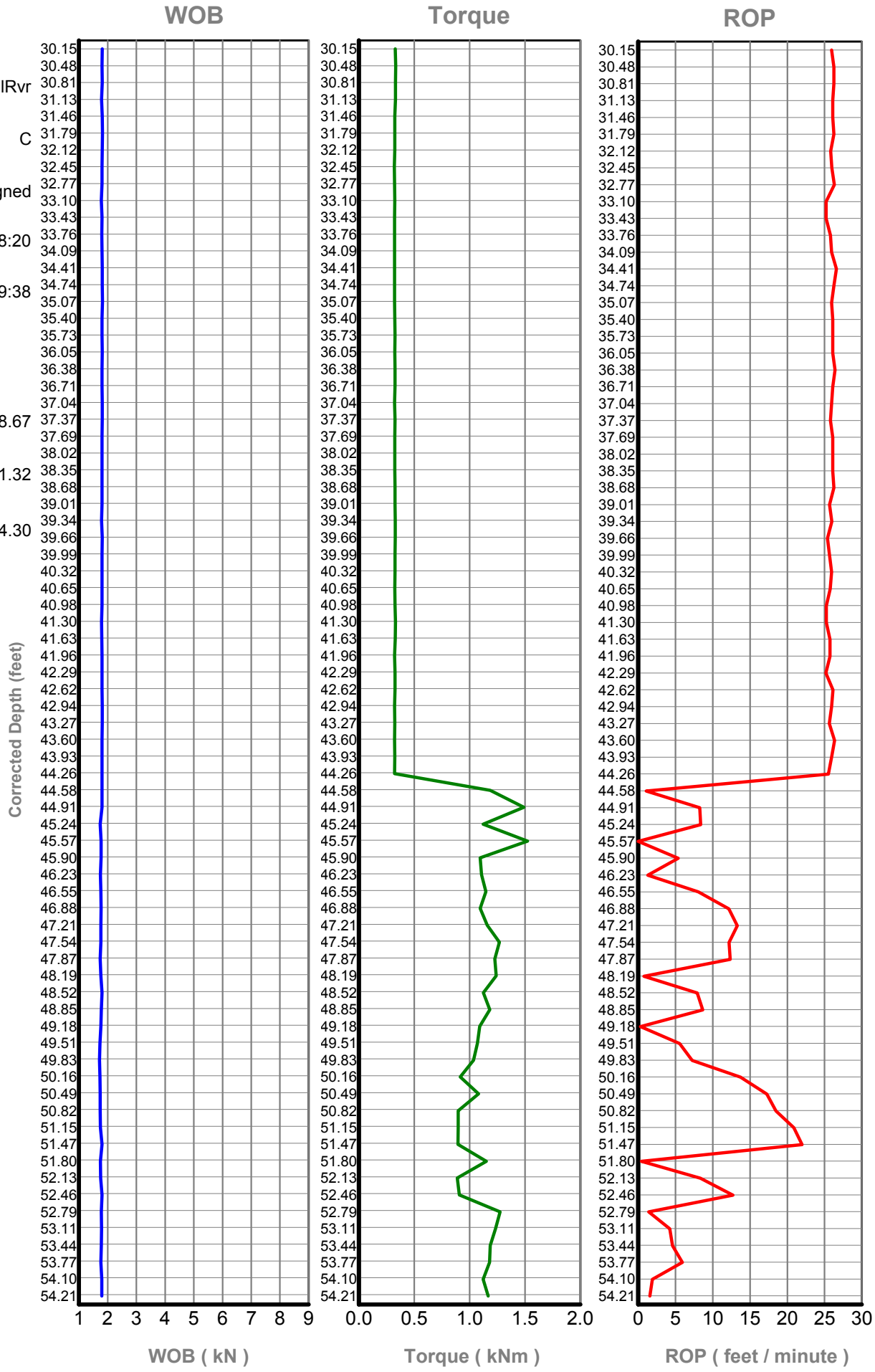
**End Date:**
4/26/2015 10:19:38

**Operator Note:**
'4.3 Auto Complete'

**Northing:**
365,868.67

**Easting:**
250,411.32

**Tide (feet):**
4.30



## Hole: H392 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 4:49:41 | 34.78 | 30.28 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 4:49:41 | 35.11 | 30.61 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 4:49:41 | 35.43 | 30.93 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 4:49:42 | 35.76 | 31.26 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 4:49:43 | 36.09 | 31.59 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 4:49:43 | 36.42 | 31.92 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/26/2015 4:49:43 | 36.75 | 32.25 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 4:49:44 | 37.07 | 32.57 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 4:49:44 | 37.40 | 32.90 | 1,000 | 0.32 | 0.32 | 54.7 |
| 4/26/2015 4:49:44 | 37.73 | 33.23 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 4:49:45 | 38.06 | 33.56 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 4:49:45 | 38.39 | 33.89 | 997 | 0.33 | 0.31 | 54.5 |
| 4/26/2015 4:49:45 | 38.71 | 34.21 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 4:49:46 | 39.04 | 34.54 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 4:49:46 | 39.37 | 34.87 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 4:49:46 | 39.70 | 35.20 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 4:49:47 | 40.03 | 35.53 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/26/2015 4:49:47 | 40.35 | 35.85 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/26/2015 4:49:47 | 40.68 | 36.18 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 4:49:48 | 41.01 | 36.51 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 4:49:48 | 41.34 | 36.84 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 4:49:48 | 41.67 | 37.17 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 4:49:49 | 41.99 | 37.49 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/26/2015 4:49:49 | 42.32 | 37.82 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/26/2015 4:49:49 | 42.65 | 38.15 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 4:49:50 | 42.98 | 38.48 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/26/2015 4:49:50 | 43.31 | 38.81 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/26/2015 4:49:50 | 43.64 | 39.14 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 4:49:51 | 43.96 | 39.46 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 4:49:51 | 44.29 | 39.79 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 4:49:51 | 44.62 | 40.12 | 1,027 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 4:49:52 | 44.95 | 40.45 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 4:49:52 | 45.28 | 40.78 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/26/2015 4:49:52 | 45.60 | 41.10 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 4:49:53 | 45.93 | 41.43 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 4:49:54 | 46.26 | 41.76 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 4:49:54 | 46.59 | 42.09 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 4:49:54 | 46.92 | 42.42 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 4:49:55 | 47.24 | 42.74 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 4:49:55 | 47.57 | 43.07 | 1,006 | 0.32 | 0.32 | 55.0 |
| 4/26/2015 4:49:55 | 47.90 | 43.40 | 991 | 0.32 | 0.32 | 54.2 |
| 4/26/2015 4:49:56 | 48.23 | 43.73 | 991 | 0.32 | 0.32 | 54.2 |
| 4/26/2015 4:49:56 | 48.56 | 44.06 | 1,010 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 4:49:56 | 48.88 | 44.38 | 999 | 0.32 | 0.32 | 54.6 |
| 4/26/2015 4:49:57 | 49.21 | 44.71 | 999 | 0.32 | 0.32 | 54.6 |
| 4/26/2015 4:49:57 | 49.54 | 45.04 | 999 | 0.32 | 0.32 | 54.6 |
| 4/26/2015 4:49:57 | 49.87 | 45.37 | 993 | 0.32 | 0.32 | 54.3 |
| 4/26/2015 4:49:58 | 50.20 | 45.70 | 1,005 | 0.31 | 0.34 | 54.9 |
| 4/26/2015 4:49:58 | 50.53 | 46.03 | 1,005 | 0.31 | 0.34 | 54.9 |
| 4/26/2015 4:50:21 | 50.85 | 46.35 | 0 | 3.67 | 0.36 | 0.0 |
| 4/26/2015 4:50:23 | 51.18 | 46.68 | 174 | 8.09 | 0.40 | 9.5 |
| 4/26/2015 4:50:25 | 51.51 | 47.01 | 139 | 6.58 | 0.38 | 7.6 |
| 4/26/2015 4:50:26 | 51.84 | 47.34 | 205 | 3.79 | 0.38 | 11.2 |
| 4/26/2015 4:50:28 | 52.17 | 47.67 | 231 | 3.95 | 0.38 | 12.6 |
| 4/26/2015 4:50:30 | 52.49 | 47.99 | 220 | 3.82 | 0.39 | 12.0 |
| 4/26/2015 4:50:31 | 52.82 | 48.32 | 200 | 4.58 | 0.39 | 10.9 |
| 4/26/2015 4:50:33 | 53.15 | 48.65 | 182 | 3.67 | 0.40 | 9.9 |
| 4/26/2015 4:50:40 | 53.48 | 48.98 | 14 | 4.43 | 0.38 | 0.8 |
| 4/26/2015 4:50:43 | 53.81 | 49.31 | 83 | 3.55 | 0.38 | 4.5 |
| 4/26/2015 4:50:45 | 54.13 | 49.63 | 168 | 4.23 | 0.38 | 9.2 |
| 4/26/2015 4:50:47 | 54.46 | 49.96 | 216 | 3.01 | 0.37 | 11.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:50:48 | 54.79 | 50.29 | 266 | 4.07 | 0.38 | 14.5 |
| 4/26/2015 | 4:50:49 | 55.12 | 50.62 | 295 | 3.57 | 0.38 | 16.1 |
| 4/26/2015 | 4:50:50 | 55.45 | 50.95 | 298 | 2.96 | 0.36 | 16.3 |
| 4/26/2015 | 4:50:51 | 55.77 | 51.27 | 358 | 2.17 | 0.35 | 19.6 |
| 4/26/2015 | 4:50:51 | 56.10 | 51.60 | 423 | 2.56 | 0.35 | 23.1 |
| 4/26/2015 | 4:50:52 | 56.43 | 51.93 | 483 | 2.98 | 0.36 | 26.4 |
| 4/26/2015 | 4:50:53 | 56.76 | 52.26 | 552 | 3.88 | 0.38 | 30.2 |
| 4/26/2015 | 4:50:54 | 57.09 | 52.59 | 460 | 3.81 | 0.38 | 25.2 |
| 4/26/2015 | 4:50:55 | 57.41 | 52.91 | 352 | 3.12 | 0.37 | 19.3 |
| 4/26/2015 | 4:50:56 | 57.74 | 53.24 | 332 | 2.85 | 0.38 | 18.1 |
| 4/26/2015 | 4:50:58 | 58.07 | 53.57 | 224 | 2.77 | 0.39 | 12.2 |
| 4/26/2015 | 4:51:01 | 58.40 | 53.90 | 107 | 2.76 | 0.39 | 5.8 |
| 4/26/2015 | 4:51:06 | 58.73 | 54.23 | 79 | 3.80 | 0.38 | 4.3 |
| 4/26/2015 | 4:51:08 | 59.06 | 54.56 | 243 | 4.03 | 0.38 | 13.3 |
| 4/26/2015 | 4:51:09 | 59.38 | 54.88 | 287 | 4.47 | 0.39 | 15.7 |
| 4/26/2015 | 4:51:10 | 59.43 | 54.93 | 237 | 5.78 | 0.40 | 13.0 |

## H392 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:46:41

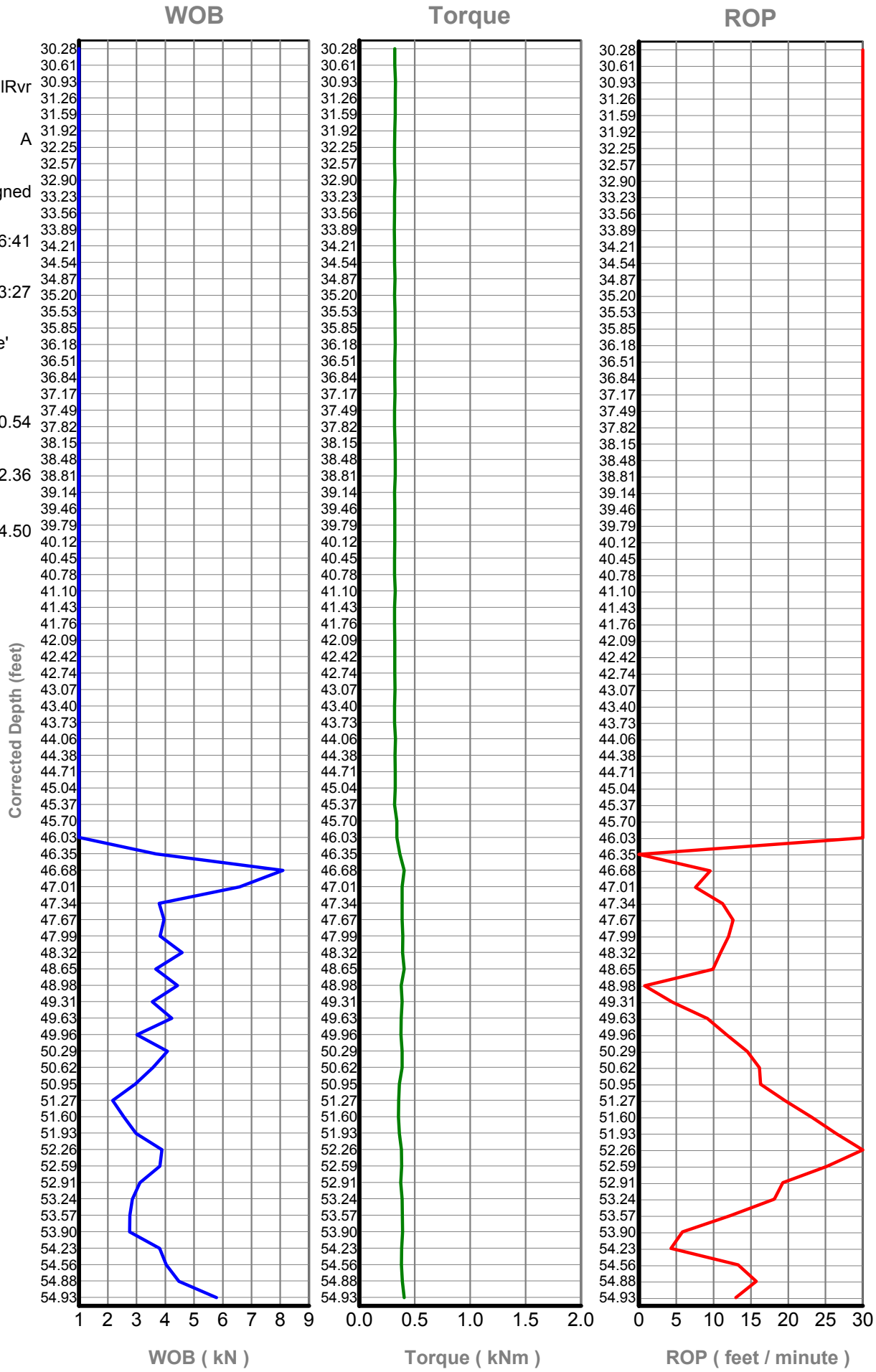
**End Date:**
4/26/2015 4:53:27

**Operator Note:**
'4.5 4.3 b Auto Complete'

**Northing:**
365,930.54

**Easting:**
250,482.36

**Tide (feet):**
4.50



## Hole: H393 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 5:00:14 | 35.11 | 30.31 | 633 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 5:00:14 | 35.43 | 30.63 | 625 | 1.78 | 0.15 | 34.2 |
| 4/26/2015 5:00:15 | 35.76 | 30.96 | 650 | 1.76 | 0.15 | 35.5 |
| 4/26/2015 5:00:15 | 36.09 | 31.29 | 633 | 1.78 | 0.15 | 34.6 |
| 4/26/2015 5:00:16 | 36.42 | 31.62 | 629 | 1.79 | 0.16 | 34.4 |
| 4/26/2015 5:00:16 | 36.75 | 31.95 | 633 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 5:00:17 | 37.07 | 32.27 | 633 | 1.78 | 0.15 | 34.6 |
| 4/26/2015 5:00:17 | 37.40 | 32.60 | 633 | 1.78 | 0.15 | 34.6 |
| 4/26/2015 5:00:18 | 37.73 | 32.93 | 633 | 1.77 | 0.15 | 34.6 |
| 4/26/2015 5:00:18 | 38.06 | 33.26 | 636 | 1.77 | 0.15 | 34.8 |
| 4/26/2015 5:00:19 | 38.39 | 33.59 | 633 | 1.78 | 0.15 | 34.6 |
| 4/26/2015 5:00:20 | 38.71 | 33.91 | 629 | 1.76 | 0.15 | 34.4 |
| 4/26/2015 5:00:20 | 39.04 | 34.24 | 633 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 5:00:21 | 39.37 | 34.57 | 609 | 1.76 | 0.15 | 33.3 |
| 4/26/2015 5:00:21 | 39.70 | 34.90 | 609 | 1.77 | 0.15 | 33.3 |
| 4/26/2015 5:00:22 | 40.03 | 35.23 | 621 | 1.76 | 0.15 | 34.0 |
| 4/26/2015 5:00:22 | 40.35 | 35.55 | 621 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 5:00:23 | 40.68 | 35.88 | 617 | 1.78 | 0.15 | 33.7 |
| 4/26/2015 5:00:24 | 41.01 | 36.21 | 617 | 1.78 | 0.15 | 33.7 |
| 4/26/2015 5:00:24 | 41.34 | 36.54 | 617 | 1.77 | 0.15 | 33.7 |
| 4/26/2015 5:00:25 | 41.67 | 36.87 | 642 | 1.77 | 0.15 | 35.1 |
| 4/26/2015 5:00:25 | 41.99 | 37.19 | 627 | 1.76 | 0.15 | 34.3 |
| 4/26/2015 5:00:26 | 42.32 | 37.52 | 627 | 1.77 | 0.15 | 34.3 |
| 4/26/2015 5:00:27 | 42.65 | 37.85 | 628 | 1.78 | 0.15 | 34.3 |
| 4/26/2015 5:00:27 | 42.98 | 38.18 | 617 | 1.76 | 0.15 | 33.7 |
| 4/26/2015 5:00:28 | 43.31 | 38.51 | 617 | 1.77 | 0.15 | 33.7 |
| 4/26/2015 5:00:28 | 43.64 | 38.84 | 621 | 1.76 | 0.15 | 34.0 |
| 4/26/2015 5:00:29 | 43.96 | 39.16 | 620 | 1.76 | 0.15 | 33.9 |
| 4/26/2015 5:00:29 | 44.29 | 39.49 | 632 | 1.79 | 0.15 | 34.6 |
| 4/26/2015 5:00:30 | 44.62 | 39.82 | 614 | 1.78 | 0.15 | 33.6 |
| 4/26/2015 5:00:30 | 44.95 | 40.15 | 614 | 1.77 | 0.15 | 33.6 |
| 4/26/2015 5:00:31 | 45.28 | 40.48 | 629 | 1.77 | 0.15 | 34.4 |
| 4/26/2015 5:00:31 | 45.60 | 40.80 | 622 | 1.76 | 0.15 | 34.0 |
| 4/26/2015 5:00:33 | 45.93 | 41.13 | 620 | 1.77 | 0.15 | 33.9 |
| 4/26/2015 5:00:33 | 46.26 | 41.46 | 614 | 1.79 | 0.15 | 33.6 |
| 4/26/2015 5:00:34 | 46.59 | 41.79 | 614 | 1.78 | 0.15 | 33.6 |
| 4/26/2015 5:00:34 | 46.92 | 42.12 | 612 | 1.79 | 0.15 | 33.5 |
| 4/26/2015 5:00:35 | 47.24 | 42.44 | 612 | 1.79 | 0.15 | 33.5 |
| 4/26/2015 5:00:35 | 47.57 | 42.77 | 624 | 1.79 | 0.15 | 34.1 |
| 4/26/2015 5:00:36 | 47.90 | 43.10 | 610 | 1.78 | 0.15 | 33.3 |
| 4/26/2015 5:00:36 | 48.23 | 43.43 | 617 | 1.78 | 0.15 | 33.8 |
| 4/26/2015 5:00:37 | 48.56 | 43.76 | 633 | 1.77 | 0.15 | 34.6 |
| 4/26/2015 5:00:37 | 48.88 | 44.08 | 620 | 1.76 | 0.15 | 33.9 |
| 4/26/2015 5:00:38 | 49.21 | 44.41 | 608 | 1.78 | 0.15 | 33.2 |
| 4/26/2015 5:00:39 | 49.54 | 44.74 | 624 | 1.78 | 0.15 | 34.1 |
| 4/26/2015 5:00:39 | 49.87 | 45.07 | 612 | 1.77 | 0.15 | 33.5 |
| 4/26/2015 5:00:40 | 50.20 | 45.40 | 612 | 1.76 | 0.15 | 33.5 |
| 4/26/2015 5:01:02 | 50.53 | 45.73 | 0 | 1.77 | 0.96 | 0.0 |
| 4/26/2015 5:01:12 | 50.85 | 46.05 | 0 | 1.83 | 0.96 | 0.0 |
| 4/26/2015 5:01:12 | 51.18 | 46.38 | 0 | 1.74 | 0.99 | 0.0 |
| 4/26/2015 5:01:17 | 51.51 | 46.71 | 120 | 1.73 | 1.14 | 6.6 |
| 4/26/2015 5:01:18 | 51.84 | 47.04 | 120 | 1.72 | 1.35 | 6.6 |
| 4/26/2015 5:01:20 | 52.17 | 47.37 | 283 | 1.72 | 1.14 | 15.5 |
| 4/26/2015 5:01:28 | 52.49 | 47.69 | 30 | 1.74 | 1.15 | 1.6 |
| 4/26/2015 5:01:29 | 52.82 | 48.02 | 81 | 1.76 | 1.19 | 4.4 |
| 4/26/2015 5:01:33 | 53.15 | 48.35 | 100 | 1.78 | 1.23 | 5.5 |
| 4/26/2015 5:01:45 | 53.48 | 48.68 | 100 | 1.75 | 1.09 | 5.5 |
| 4/26/2015 5:01:47 | 53.81 | 49.01 | 212 | 1.74 | 1.09 | 11.6 |
| 4/26/2015 5:01:49 | 54.13 | 49.33 | 209 | 1.72 | 1.12 | 11.4 |
| 4/26/2015 5:01:51 | 54.46 | 49.66 | 179 | 1.75 | 1.03 | 9.8 |
| 4/26/2015 5:01:52 | 54.79 | 49.99 | 243 | 1.74 | 1.11 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 5:01:53 | 55.12 | 50.32 | 283 | 1.74 | 1.01 | 15.5 |
| 4/26/2015 | 5:02:24 | 55.45 | 50.65 | 67 | 1.76 | 1.11 | 3.7 |
| 4/26/2015 | 5:02:26 | 55.77 | 50.97 | 195 | 1.75 | 1.07 | 10.6 |
| 4/26/2015 | 5:02:30 | 56.10 | 51.30 | 43 | 1.76 | 1.08 | 2.4 |
| 4/26/2015 | 5:02:32 | 56.43 | 51.63 | 164 | 1.74 | 1.09 | 9.0 |
| 4/26/2015 | 5:02:33 | 56.76 | 51.96 | 217 | 1.75 | 1.20 | 11.9 |
| 4/26/2015 | 5:02:35 | 57.09 | 52.29 | 228 | 1.74 | 1.44 | 12.5 |
| 4/26/2015 | 5:02:37 | 57.41 | 52.61 | 194 | 1.76 | 1.21 | 10.6 |
| 4/26/2015 | 5:03:02 | 57.74 | 52.94 | 60 | 1.74 | 1.16 | 3.3 |
| 4/26/2015 | 5:03:04 | 58.07 | 53.27 | 166 | 1.78 | 1.49 | 9.1 |
| 4/26/2015 | 5:03:07 | 58.40 | 53.60 | 150 | 1.76 | 1.16 | 8.2 |
| 4/26/2015 | 5:03:08 | 58.73 | 53.93 | 182 | 1.73 | 1.17 | 9.9 |
| 4/26/2015 | 5:03:10 | 59.06 | 54.26 | 225 | 1.74 | 1.12 | 12.3 |
| 4/26/2015 | 5:03:13 | 59.38 | 54.58 | 155 | 1.76 | 1.15 | 8.5 |
| 4/26/2015 | 5:03:17 | 59.59 | 54.79 | 20 | 1.79 | 1.16 | 1.1 |

## H393 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:58:07

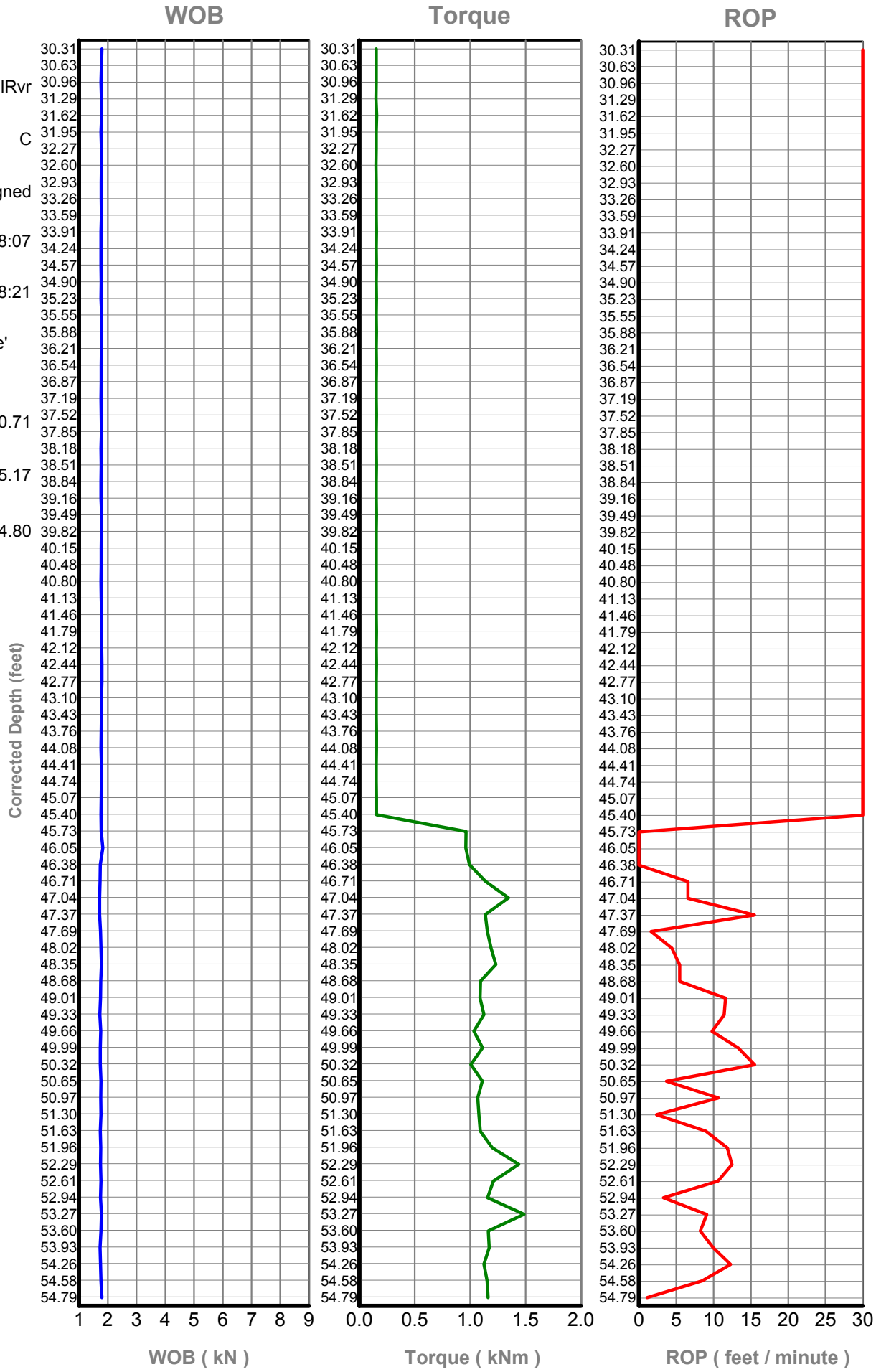
**End Date:**
4/26/2015 5:08:21

**Operator Note:**
'4.8 4.6 c Auto Complete'

**Northing:**
365,970.71

**Easting:**
250,535.17

**Tide (feet):**
4.80



## Hole: H394 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 4:48:52 | 34.78 | 30.28 | 554 | 1.79 | 0.16 | 30.3 |
| 4/26/2015 4:48:53 | 35.11 | 30.61 | 564 | 1.78 | 0.16 | 30.8 |
| 4/26/2015 4:48:54 | 35.43 | 30.93 | 561 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 4:48:54 | 35.76 | 31.26 | 562 | 1.80 | 0.16 | 30.7 |
| 4/26/2015 4:48:55 | 36.09 | 31.59 | 564 | 1.80 | 0.16 | 30.9 |
| 4/26/2015 4:48:55 | 36.42 | 31.92 | 567 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 4:48:57 | 36.75 | 32.25 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 4:48:57 | 37.07 | 32.57 | 560 | 1.77 | 0.16 | 30.6 |
| 4/26/2015 4:48:58 | 37.40 | 32.90 | 567 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 4:48:58 | 37.73 | 33.23 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:48:59 | 38.06 | 33.56 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 4:49:00 | 38.39 | 33.89 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 4:49:00 | 38.71 | 34.21 | 561 | 1.83 | 0.16 | 30.7 |
| 4/26/2015 4:49:01 | 39.04 | 34.54 | 561 | 1.76 | 0.16 | 30.7 |
| 4/26/2015 4:49:01 | 39.37 | 34.87 | 557 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:49:02 | 39.70 | 35.20 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 4:49:03 | 40.03 | 35.53 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:49:03 | 40.35 | 35.85 | 561 | 1.77 | 0.16 | 30.7 |
| 4/26/2015 4:49:04 | 40.68 | 36.18 | 561 | 1.78 | 0.16 | 30.7 |
| 4/26/2015 4:49:05 | 41.01 | 36.51 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:49:05 | 41.34 | 36.84 | 554 | 1.79 | 0.16 | 30.3 |
| 4/26/2015 4:49:06 | 41.67 | 37.17 | 561 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 4:49:06 | 41.99 | 37.49 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:49:08 | 42.32 | 37.82 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 4:49:08 | 42.65 | 38.15 | 547 | 1.77 | 0.16 | 29.9 |
| 4/26/2015 4:49:09 | 42.98 | 38.48 | 547 | 1.78 | 0.16 | 29.9 |
| 4/26/2015 4:49:09 | 43.31 | 38.81 | 550 | 1.77 | 0.16 | 30.1 |
| 4/26/2015 4:49:10 | 43.64 | 39.14 | 547 | 1.80 | 0.16 | 29.9 |
| 4/26/2015 4:49:11 | 43.96 | 39.46 | 553 | 1.78 | 0.16 | 30.2 |
| 4/26/2015 4:49:11 | 44.29 | 39.79 | 568 | 1.76 | 0.16 | 31.1 |
| 4/26/2015 4:49:12 | 44.62 | 40.12 | 558 | 1.76 | 0.16 | 30.5 |
| 4/26/2015 4:49:12 | 44.95 | 40.45 | 564 | 1.79 | 0.16 | 30.9 |
| 4/26/2015 4:49:13 | 45.28 | 40.78 | 555 | 1.82 | 0.16 | 30.3 |
| 4/26/2015 4:49:14 | 45.60 | 41.10 | 552 | 1.80 | 0.16 | 30.2 |
| 4/26/2015 4:49:14 | 45.93 | 41.43 | 555 | 1.81 | 0.16 | 30.4 |
| 4/26/2015 4:49:15 | 46.26 | 41.76 | 556 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 4:49:16 | 46.59 | 42.09 | 552 | 1.78 | 0.16 | 30.2 |
| 4/26/2015 4:49:16 | 46.92 | 42.42 | 562 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 4:49:17 | 47.24 | 42.74 | 556 | 1.76 | 0.16 | 30.4 |
| 4/26/2015 4:49:18 | 47.57 | 43.07 | 558 | 1.81 | 0.16 | 30.5 |
| 4/26/2015 4:49:18 | 47.90 | 43.40 | 556 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 4:49:19 | 48.23 | 43.73 | 555 | 1.80 | 0.16 | 30.4 |
| 4/26/2015 4:49:20 | 48.56 | 44.06 | 555 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 4:49:20 | 48.88 | 44.38 | 549 | 1.80 | 0.16 | 30.0 |
| 4/26/2015 4:49:21 | 49.21 | 44.71 | 540 | 1.79 | 0.16 | 29.5 |
| 4/26/2015 4:49:22 | 49.54 | 45.04 | 548 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 4:49:44 | 49.87 | 45.37 | 0 | 1.76 | 1.12 | 0.0 |
| 4/26/2015 4:49:45 | 50.20 | 45.70 | 144 | 1.81 | 1.16 | 7.9 |
| 4/26/2015 4:49:46 | 50.53 | 46.03 | 238 | 1.73 | 1.17 | 13.0 |
| 4/26/2015 4:49:50 | 50.85 | 46.35 | 43 | 1.76 | 1.26 | 2.3 |
| 4/26/2015 4:49:52 | 51.18 | 46.68 | 193 | 1.72 | 1.20 | 10.6 |
| 4/26/2015 4:49:53 | 51.51 | 47.01 | 255 | 1.58 | 1.24 | 13.9 |
| 4/26/2015 4:50:09 | 51.84 | 47.34 | 40 | 1.78 | 1.49 | 2.2 |
| 4/26/2015 4:50:11 | 52.17 | 47.67 | 161 | 1.78 | 1.31 | 8.8 |
| 4/26/2015 4:50:13 | 52.49 | 47.99 | 188 | 1.74 | 1.16 | 10.3 |
| 4/26/2015 4:50:15 | 52.82 | 48.32 | 185 | 1.77 | 1.22 | 10.1 |
| 4/26/2015 4:50:29 | 53.15 | 48.65 | 58 | 1.74 | 1.11 | 3.2 |
| 4/26/2015 4:50:31 | 53.48 | 48.98 | 160 | 1.77 | 1.03 | 8.7 |
| 4/26/2015 4:50:32 | 53.81 | 49.31 | 288 | 1.74 | 1.06 | 15.7 |
| 4/26/2015 4:50:33 | 54.13 | 49.63 | 311 | 1.77 | 1.31 | 17.0 |
| 4/26/2015 4:50:54 | 54.46 | 49.96 | 94 | 1.74 | 1.16 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 4:50:55 | 54.79 | 50.29 | 155 | 1.74 | 1.09 | 8.5 |
| 4/26/2015 | 4:50:57 | 55.12 | 50.62 | 273 | 1.73 | 1.09 | 14.9 |
| 4/26/2015 | 4:51:21 | 55.45 | 50.95 | 15 | 1.74 | 1.08 | 0.8 |
| 4/26/2015 | 4:51:23 | 55.77 | 51.27 | 171 | 1.74 | 1.12 | 9.3 |
| 4/26/2015 | 4:51:24 | 56.10 | 51.60 | 222 | 1.75 | 1.10 | 12.1 |
| 4/26/2015 | 4:51:25 | 56.43 | 51.93 | 270 | 1.74 | 1.10 | 14.8 |
| 4/26/2015 | 4:51:27 | 56.76 | 52.26 | 232 | 1.49 | 1.06 | 12.7 |
| 4/26/2015 | 4:51:28 | 57.09 | 52.59 | 222 | 1.73 | 1.10 | 12.2 |
| 4/26/2015 | 4:51:29 | 57.41 | 52.91 | 258 | 1.74 | 1.11 | 14.1 |
| 4/26/2015 | 4:51:31 | 57.74 | 53.24 | 310 | 1.76 | 1.24 | 17.0 |
| 4/26/2015 | 4:51:32 | 58.07 | 53.57 | 262 | 1.77 | 1.37 | 14.3 |
| 4/26/2015 | 4:51:40 | 58.40 | 53.90 | 84 | 1.75 | 1.17 | 4.6 |
| 4/26/2015 | 4:51:41 | 58.73 | 54.23 | 165 | 1.76 | 1.07 | 9.0 |
| 4/26/2015 | 4:51:44 | 59.06 | 54.56 | 206 | 1.76 | 1.20 | 11.3 |
| 4/26/2015 | 4:51:45 | 59.31 | 54.81 | 167 | 1.77 | 1.21 | 9.1 |

## H394 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 4:46:45

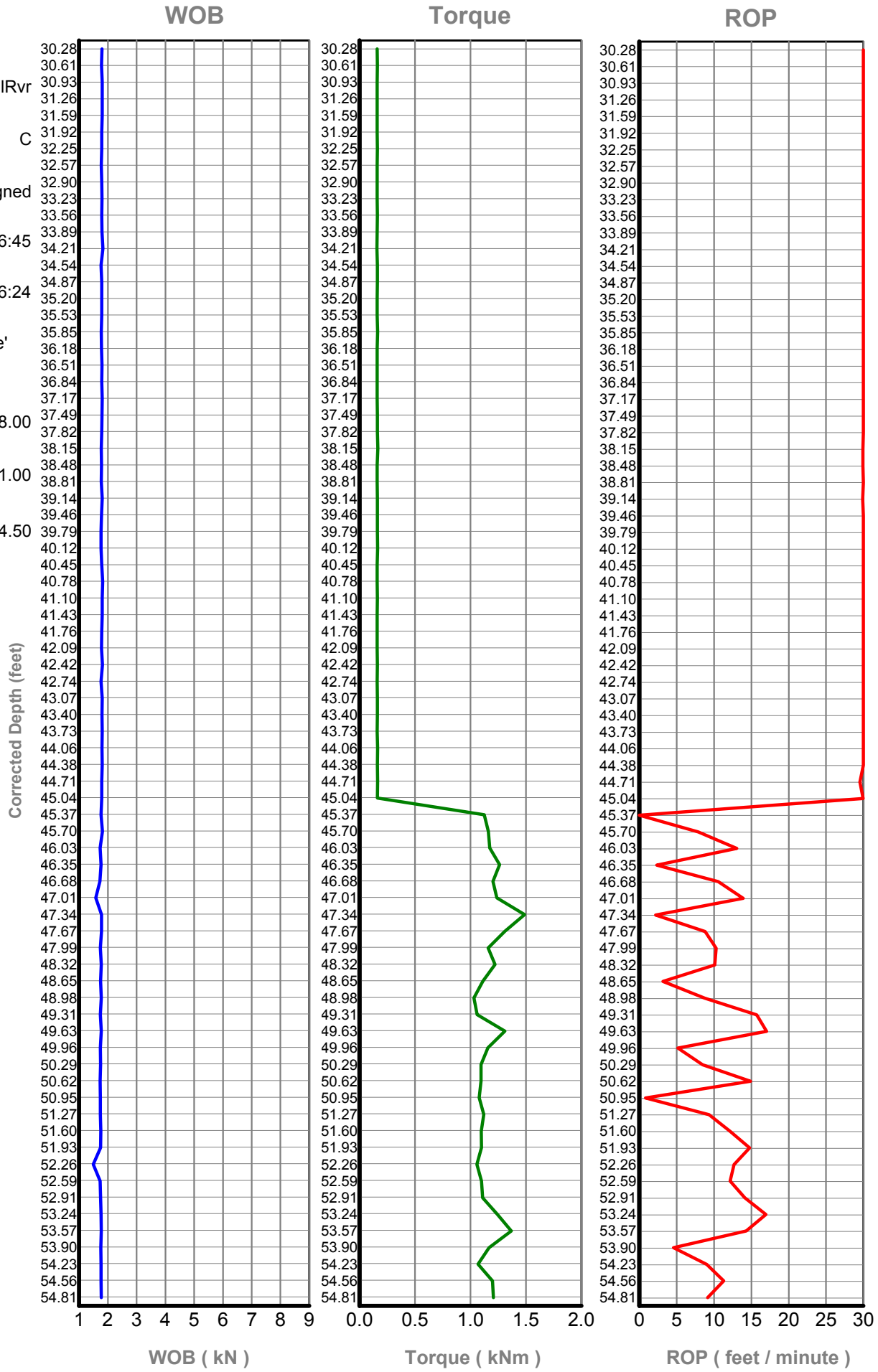
**End Date:**
4/26/2015 4:56:24

**Operator Note:**
'4.5 4.3 c Auto Complete'

**Northing:**
366,008.00

**Easting:**
250,591.00

**Tide (feet):**
4.50



## Hole: H395 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:41:17 | 35.43 | 30.13 | 1,081 | 0.30 | 0.31 | 59.1 |
| 4/25/2015 17:41:17 | 35.76 | 30.46 | 1,081 | 0.30 | 0.31 | 59.1 |
| 4/25/2015 17:41:17 | 36.09 | 30.79 | 1,087 | 0.31 | 0.32 | 59.4 |
| 4/25/2015 17:41:18 | 36.42 | 31.12 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/25/2015 17:41:18 | 36.75 | 31.45 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/25/2015 17:41:18 | 37.07 | 31.77 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/25/2015 17:41:19 | 37.40 | 32.10 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/25/2015 17:41:19 | 37.73 | 32.43 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/25/2015 17:41:19 | 38.06 | 32.76 | 1,085 | 0.31 | 0.31 | 59.3 |
| 4/25/2015 17:41:20 | 38.39 | 33.09 | 1,085 | 0.31 | 0.31 | 59.3 |
| 4/25/2015 17:41:20 | 38.71 | 33.41 | 1,066 | 0.31 | 0.31 | 58.3 |
| 4/25/2015 17:41:20 | 39.04 | 33.74 | 1,085 | 0.31 | 0.32 | 59.4 |
| 4/25/2015 17:41:21 | 39.37 | 34.07 | 1,085 | 0.31 | 0.32 | 59.4 |
| 4/25/2015 17:41:21 | 39.70 | 34.40 | 1,082 | 0.31 | 0.32 | 59.2 |
| 4/25/2015 17:41:21 | 40.03 | 34.73 | 1,094 | 0.31 | 0.32 | 59.8 |
| 4/25/2015 17:41:22 | 40.35 | 35.05 | 1,094 | 0.31 | 0.32 | 59.8 |
| 4/25/2015 17:41:22 | 40.68 | 35.38 | 1,085 | 0.31 | 0.32 | 59.3 |
| 4/25/2015 17:41:22 | 41.01 | 35.71 | 1,085 | 0.31 | 0.32 | 59.3 |
| 4/25/2015 17:41:22 | 41.34 | 36.04 | 1,100 | 0.31 | 0.31 | 60.2 |
| 4/25/2015 17:41:23 | 41.67 | 36.37 | 1,084 | 0.31 | 0.30 | 59.3 |
| 4/25/2015 17:41:23 | 41.99 | 36.69 | 1,084 | 0.31 | 0.30 | 59.3 |
| 4/25/2015 17:41:23 | 42.32 | 37.02 | 1,093 | 0.31 | 0.31 | 59.8 |
| 4/25/2015 17:41:24 | 42.65 | 37.35 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/25/2015 17:41:24 | 42.98 | 37.68 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/25/2015 17:41:24 | 43.31 | 38.01 | 1,084 | 0.31 | 0.31 | 59.3 |
| 4/25/2015 17:41:25 | 43.64 | 38.34 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 17:41:26 | 43.96 | 38.66 | 1,078 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 17:41:26 | 44.29 | 38.99 | 1,084 | 0.31 | 0.32 | 59.3 |
| 4/25/2015 17:41:26 | 44.62 | 39.32 | 1,084 | 0.31 | 0.32 | 59.3 |
| 4/25/2015 17:41:26 | 44.95 | 39.65 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 17:41:27 | 45.28 | 39.98 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 17:41:27 | 45.60 | 40.30 | 1,050 | 0.31 | 0.32 | 57.4 |
| 4/25/2015 17:41:27 | 45.93 | 40.63 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/25/2015 17:41:28 | 46.26 | 40.96 | 1,062 | 0.30 | 0.31 | 58.1 |
| 4/25/2015 17:41:28 | 46.59 | 41.29 | 1,062 | 0.30 | 0.31 | 58.1 |
| 4/25/2015 17:41:28 | 46.92 | 41.62 | 1,059 | 0.30 | 0.32 | 57.9 |
| 4/25/2015 17:41:29 | 47.24 | 41.94 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 17:41:29 | 47.57 | 42.27 | 1,057 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 17:41:29 | 47.90 | 42.60 | 1,079 | 0.31 | 0.31 | 59.0 |
| 4/25/2015 17:41:30 | 48.23 | 42.93 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/25/2015 17:41:30 | 48.56 | 43.26 | 1,067 | 0.30 | 0.31 | 58.3 |
| 4/25/2015 17:41:30 | 48.88 | 43.58 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 17:41:31 | 49.21 | 43.91 | 1,061 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 17:41:31 | 49.54 | 44.24 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/25/2015 17:41:31 | 49.87 | 44.57 | 1,055 | 0.30 | 0.32 | 57.7 |
| 4/25/2015 17:41:32 | 50.20 | 44.90 | 1,055 | 0.30 | 0.32 | 57.7 |
| 4/25/2015 17:41:32 | 50.53 | 45.23 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/25/2015 17:41:32 | 50.85 | 45.55 | 1,049 | 0.28 | 0.37 | 57.4 |
| 4/25/2015 17:41:40 | 51.18 | 45.88 | 61 | 3.91 | 0.37 | 3.3 |
| 4/25/2015 17:41:44 | 51.51 | 46.21 | 0 | 6.70 | 0.37 | 0.0 |
| 4/25/2015 17:41:45 | 51.84 | 46.54 | 64 | 3.24 | 0.36 | 3.5 |
| 4/25/2015 17:41:46 | 52.17 | 46.87 | 152 | 2.88 | 0.36 | 8.3 |
| 4/25/2015 17:41:46 | 52.49 | 47.19 | 251 | 2.65 | 0.36 | 13.7 |
| 4/25/2015 17:41:51 | 52.82 | 47.52 | 24 | 3.21 | 0.37 | 1.3 |
| 4/25/2015 17:41:54 | 53.15 | 47.85 | 82 | 3.13 | 0.36 | 4.5 |
| 4/25/2015 17:41:56 | 53.48 | 48.18 | 148 | 4.71 | 0.38 | 8.1 |
| 4/25/2015 17:41:57 | 53.81 | 48.51 | 271 | 2.82 | 0.38 | 14.8 |
| 4/25/2015 17:41:58 | 54.13 | 48.83 | 295 | 5.08 | 0.38 | 16.1 |
| 4/25/2015 17:41:59 | 54.46 | 49.16 | 315 | 3.76 | 0.37 | 17.2 |
| 4/25/2015 17:42:00 | 54.79 | 49.49 | 371 | 3.60 | 0.36 | 20.3 |
| 4/25/2015 17:42:10 | 55.12 | 49.82 | 0 | 3.69 | 0.36 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:42:11 | 55.45 | 50.15 | 94 | 4.07 | 0.36 | 5.2 |
| 4/25/2015 | 17:42:21 | 55.77 | 50.47 | 46 | 2.90 | 0.35 | 2.5 |
| 4/25/2015 | 17:42:22 | 56.10 | 50.80 | 160 | 2.60 | 0.35 | 8.8 |
| 4/25/2015 | 17:42:22 | 56.43 | 51.13 | 284 | 2.40 | 0.35 | 15.5 |
| 4/25/2015 | 17:42:35 | 56.76 | 51.46 | 118 | 3.19 | 0.35 | 6.4 |
| 4/25/2015 | 17:42:36 | 57.09 | 51.79 | 229 | 2.40 | 0.35 | 12.5 |
| 4/25/2015 | 17:42:36 | 57.41 | 52.11 | 338 | 3.26 | 0.36 | 18.5 |
| 4/25/2015 | 17:42:37 | 57.74 | 52.44 | 452 | 2.69 | 0.36 | 24.7 |
| 4/25/2015 | 17:42:38 | 58.07 | 52.77 | 529 | 3.03 | 0.37 | 28.9 |
| 4/25/2015 | 17:42:39 | 58.40 | 53.10 | 506 | 2.86 | 0.37 | 27.7 |
| 4/25/2015 | 17:42:40 | 58.73 | 53.43 | 471 | 2.56 | 0.37 | 25.8 |
| 4/25/2015 | 17:42:40 | 59.06 | 53.76 | 468 | 5.90 | 0.38 | 25.6 |
| 4/25/2015 | 17:42:43 | 59.38 | 54.08 | 188 | 3.75 | 0.37 | 10.3 |
| 4/25/2015 | 17:42:44 | 59.71 | 54.41 | 235 | 3.60 | 0.38 | 12.8 |
| 4/25/2015 | 17:42:45 | 60.04 | 54.74 | 302 | 7.44 | 0.40 | 16.5 |
| 4/25/2015 | 17:42:47 | 60.27 | 54.97 | 148 | 5.42 | 0.37 | 8.1 |

## H395 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:39:29

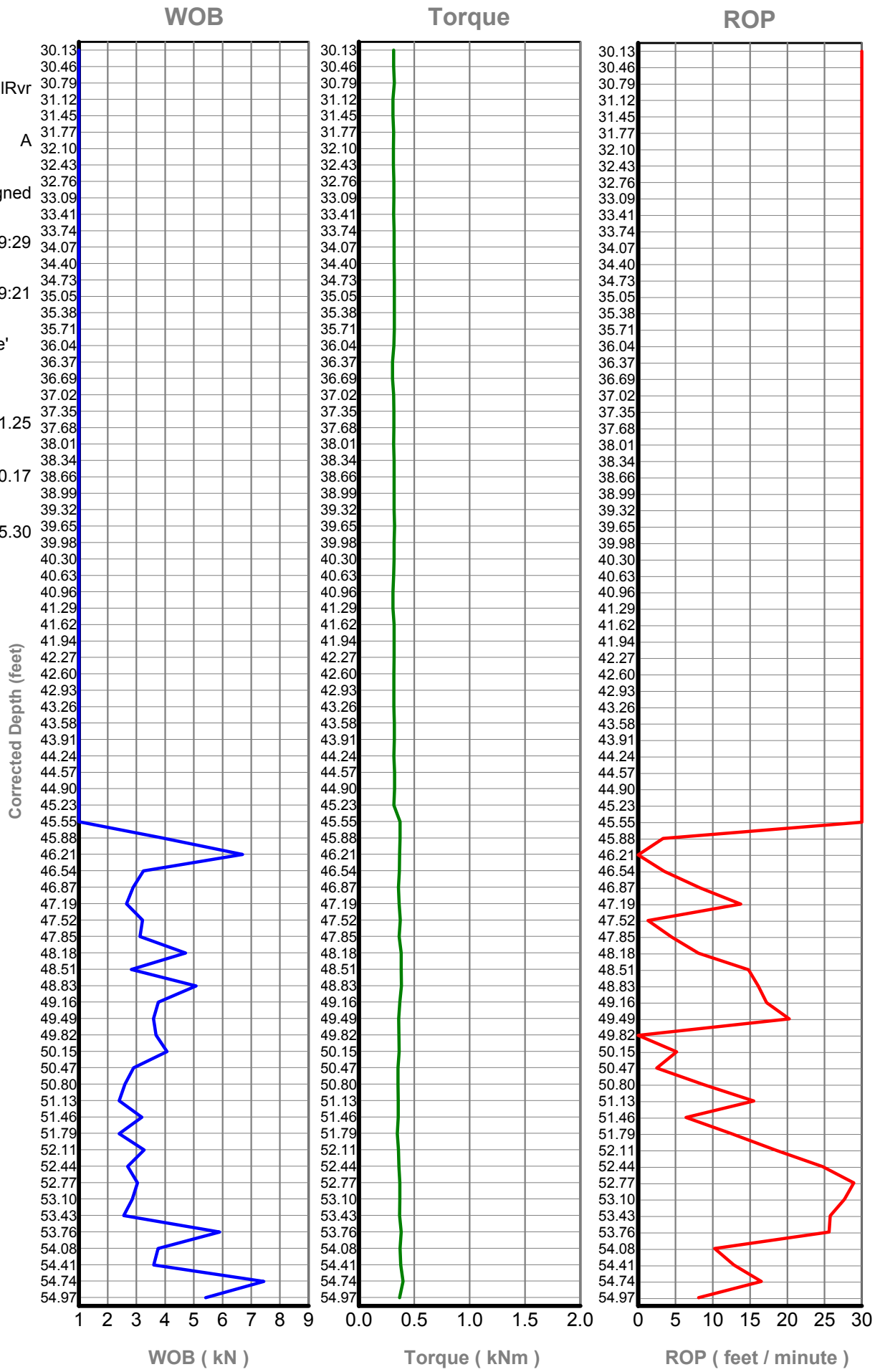
**End Date:**
4/25/2015 17:59:21

**Operator Note:**
'5.3 6.2 b Auto Complete'

**Northing:**
366,071.25

**Easting:**
250,660.17

**Tide (feet):**
5.30



## Hole: H396 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:36:14 | 35.11 | 30.01 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/25/2015 17:36:14 | 35.43 | 30.33 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:15 | 35.76 | 30.66 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:15 | 36.09 | 30.99 | 1,073 | 0.30 | 0.31 | 58.7 |
| 4/25/2015 17:36:15 | 36.42 | 31.32 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/25/2015 17:36:16 | 36.75 | 31.65 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/25/2015 17:36:16 | 37.07 | 31.97 | 1,067 | 0.30 | 0.32 | 58.3 |
| 4/25/2015 17:36:16 | 37.40 | 32.30 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/25/2015 17:36:17 | 37.73 | 32.63 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/25/2015 17:36:17 | 38.06 | 32.96 | 1,069 | 0.31 | 0.32 | 58.5 |
| 4/25/2015 17:36:17 | 38.39 | 33.29 | 1,069 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:18 | 38.71 | 33.61 | 1,069 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:18 | 39.04 | 33.94 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/25/2015 17:36:18 | 39.37 | 34.27 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/25/2015 17:36:19 | 39.70 | 34.60 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/25/2015 17:36:19 | 40.03 | 34.93 | 1,069 | 0.34 | 0.31 | 58.5 |
| 4/25/2015 17:36:19 | 40.35 | 35.25 | 1,069 | 0.34 | 0.31 | 58.5 |
| 4/25/2015 17:36:19 | 40.68 | 35.58 | 1,064 | 0.31 | 0.32 | 58.2 |
| 4/25/2015 17:36:20 | 41.01 | 35.91 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 17:36:20 | 41.34 | 36.24 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/25/2015 17:36:20 | 41.67 | 36.57 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 17:36:21 | 41.99 | 36.89 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/25/2015 17:36:21 | 42.32 | 37.22 | 1,055 | 0.30 | 0.31 | 57.7 |
| 4/25/2015 17:36:21 | 42.65 | 37.55 | 1,061 | 0.29 | 0.31 | 58.0 |
| 4/25/2015 17:36:22 | 42.98 | 37.88 | 1,058 | 0.30 | 0.32 | 57.9 |
| 4/25/2015 17:36:23 | 43.31 | 38.21 | 1,058 | 0.30 | 0.32 | 57.9 |
| 4/25/2015 17:36:22 | 43.64 | 38.54 | 1,051 | 0.31 | 0.31 | 57.5 |
| 4/25/2015 17:36:23 | 43.96 | 38.86 | 1,071 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:24 | 44.29 | 39.19 | 1,071 | 0.31 | 0.31 | 58.5 |
| 4/25/2015 17:36:24 | 44.62 | 39.52 | 1,068 | 0.31 | 0.32 | 58.4 |
| 4/25/2015 17:36:24 | 44.95 | 39.85 | 1,065 | 0.31 | 0.40 | 58.2 |
| 4/25/2015 17:36:25 | 45.28 | 40.18 | 1,065 | 0.31 | 0.40 | 58.2 |
| 4/25/2015 17:36:25 | 45.60 | 40.50 | 1,062 | 0.30 | 0.32 | 58.1 |
| 4/25/2015 17:36:25 | 45.93 | 40.83 | 1,062 | 0.30 | 0.32 | 58.1 |
| 4/25/2015 17:36:25 | 46.26 | 41.16 | 1,068 | 0.29 | 0.32 | 58.4 |
| 4/25/2015 17:36:26 | 46.59 | 41.49 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/25/2015 17:36:26 | 46.92 | 41.82 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/25/2015 17:36:26 | 47.24 | 42.14 | 1,049 | 0.30 | 0.31 | 57.4 |
| 4/25/2015 17:36:27 | 47.57 | 42.47 | 1,043 | 0.30 | 0.32 | 57.0 |
| 4/25/2015 17:36:27 | 47.90 | 42.80 | 1,043 | 0.30 | 0.32 | 57.0 |
| 4/25/2015 17:36:27 | 48.23 | 43.13 | 1,052 | 0.33 | 0.31 | 57.5 |
| 4/25/2015 17:36:28 | 48.56 | 43.46 | 1,040 | 0.30 | 0.32 | 56.9 |
| 4/25/2015 17:36:28 | 48.88 | 43.78 | 1,040 | 0.30 | 0.32 | 56.9 |
| 4/25/2015 17:36:28 | 49.21 | 44.11 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/25/2015 17:36:29 | 49.54 | 44.44 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/25/2015 17:36:29 | 49.87 | 44.77 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/25/2015 17:36:29 | 50.20 | 45.10 | 1,047 | 0.29 | 0.35 | 57.2 |
| 4/25/2015 17:36:35 | 50.53 | 45.43 | 78 | 5.02 | 0.37 | 4.2 |
| 4/25/2015 17:36:37 | 50.85 | 45.75 | 199 | 5.42 | 0.39 | 10.9 |
| 4/25/2015 17:36:40 | 51.18 | 46.08 | 82 | 4.09 | 0.37 | 4.5 |
| 4/25/2015 17:36:45 | 51.51 | 46.41 | 0 | 2.56 | 0.34 | 0.0 |
| 4/25/2015 17:36:45 | 51.84 | 46.74 | 0 | 2.92 | 0.36 | 0.0 |
| 4/25/2015 17:36:46 | 52.17 | 47.07 | 96 | 2.88 | 0.36 | 5.2 |
| 4/25/2015 17:36:52 | 52.49 | 47.39 | 0 | 3.91 | 0.38 | 0.0 |
| 4/25/2015 17:36:53 | 52.82 | 47.72 | 59 | 2.65 | 0.36 | 3.2 |
| 4/25/2015 17:36:54 | 53.15 | 48.05 | 136 | 5.23 | 0.39 | 7.4 |
| 4/25/2015 17:37:01 | 53.48 | 48.38 | 0 | 3.29 | 0.37 | 0.0 |
| 4/25/2015 17:37:08 | 53.81 | 48.71 | 59 | 3.61 | 0.36 | 3.2 |
| 4/25/2015 17:37:08 | 54.13 | 49.03 | 159 | 3.45 | 0.37 | 8.7 |
| 4/25/2015 17:37:09 | 54.46 | 49.36 | 353 | 3.32 | 0.36 | 19.3 |
| 4/25/2015 17:37:34 | 54.79 | 49.69 | 0 | 4.24 | 0.37 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:37:35 | 55.12 | 50.02 | 119 | 3.88 | 0.37 | 6.5 |
| 4/25/2015 | 17:37:35 | 55.45 | 50.35 | 205 | 2.97 | 0.35 | 11.2 |
| 4/25/2015 | 17:37:42 | 55.77 | 50.67 | 28 | 2.56 | 0.35 | 1.5 |
| 4/25/2015 | 17:37:43 | 56.10 | 51.00 | 159 | 2.21 | 0.35 | 8.7 |
| 4/25/2015 | 17:37:43 | 56.43 | 51.33 | 269 | 2.06 | 0.36 | 14.7 |
| 4/25/2015 | 17:37:44 | 56.76 | 51.66 | 384 | 2.79 | 0.37 | 21.0 |
| 4/25/2015 | 17:37:45 | 57.09 | 51.99 | 459 | 3.00 | 0.36 | 25.1 |
| 4/25/2015 | 17:37:46 | 57.41 | 52.31 | 497 | 2.52 | 0.36 | 27.2 |
| 4/25/2015 | 17:37:47 | 57.74 | 52.64 | 490 | 3.08 | 0.36 | 26.8 |
| 4/25/2015 | 17:37:47 | 58.07 | 52.97 | 481 | 3.28 | 0.36 | 26.3 |
| 4/25/2015 | 17:37:48 | 58.40 | 53.30 | 507 | 2.38 | 0.36 | 27.7 |
| 4/25/2015 | 17:37:49 | 58.73 | 53.63 | 507 | 2.60 | 0.37 | 27.7 |
| 4/25/2015 | 17:37:50 | 59.06 | 53.96 | 486 | 3.61 | 0.38 | 26.6 |
| 4/25/2015 | 17:37:51 | 59.38 | 54.28 | 373 | 4.93 | 0.37 | 20.4 |
| 4/25/2015 | 17:37:54 | 59.71 | 54.61 | 133 | 5.91 | 0.38 | 7.3 |
| 4/25/2015 | 17:37:57 | 60.03 | 54.93 | 113 | 3.94 | 0.35 | 6.2 |

## H396 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:33:59

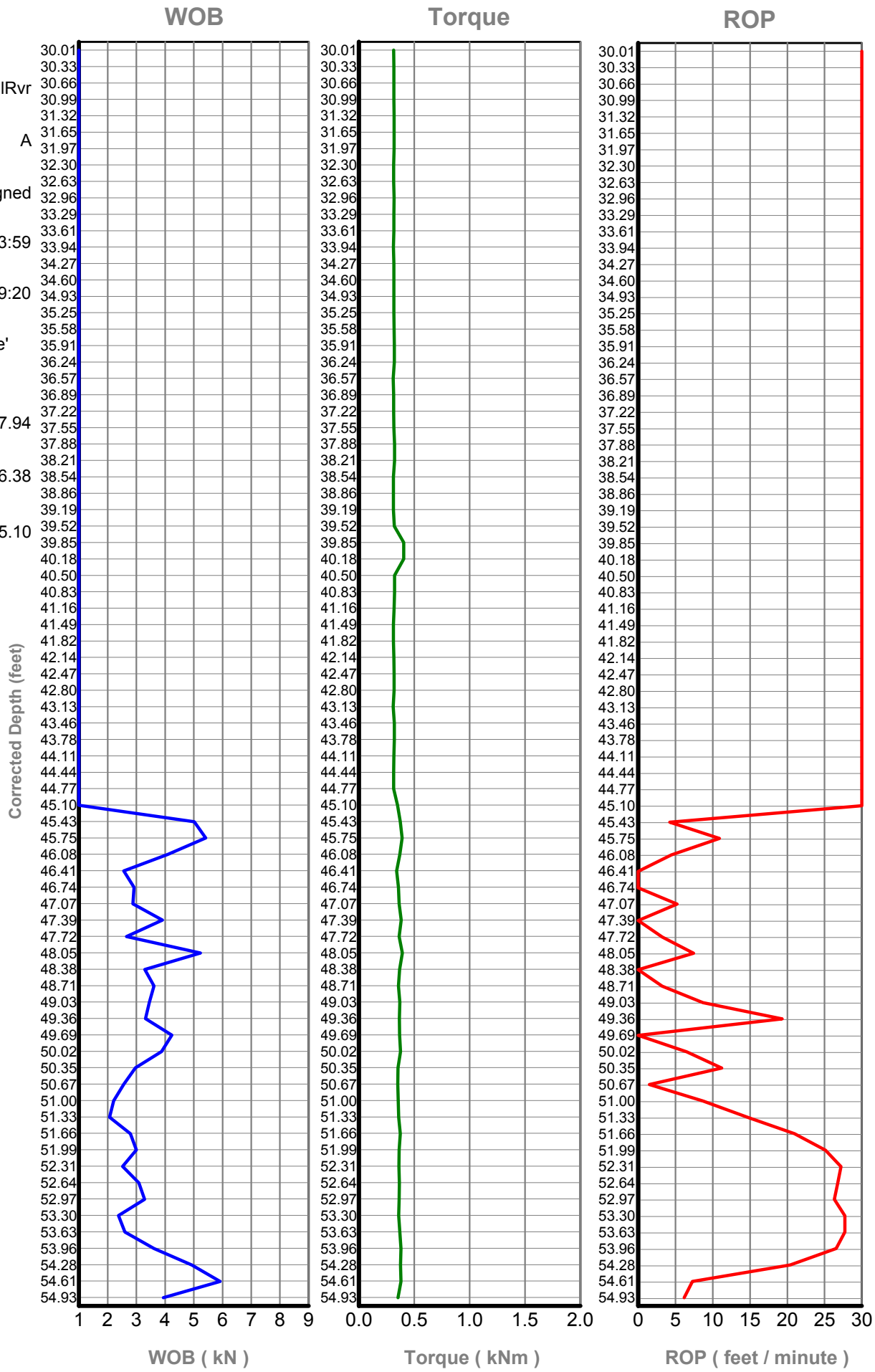
**End Date:**
4/25/2015 17:39:20

**Operator Note:**
'5.1 5.1 b Auto Complete'

**Northing:**
366,107.94

**Easting:**
250,706.38

**Tide (feet):**
5.10



## Hole: H397 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:38:20 | 35.43 | 30.23 | 562 | 1.78 | 0.30 | 30.7 |
| 4/25/2015 17:38:21 | 35.76 | 30.56 | 547 | 1.76 | 0.30 | 29.9 |
| 4/25/2015 17:38:21 | 36.09 | 30.89 | 547 | 1.76 | 0.30 | 29.9 |
| 4/25/2015 17:38:22 | 36.42 | 31.22 | 547 | 1.79 | 0.30 | 29.9 |
| 4/25/2015 17:38:23 | 36.75 | 31.55 | 557 | 1.77 | 0.30 | 30.5 |
| 4/25/2015 17:38:24 | 37.07 | 31.87 | 563 | 1.75 | 0.30 | 30.8 |
| 4/25/2015 17:38:24 | 37.40 | 32.20 | 553 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 17:38:25 | 37.73 | 32.53 | 569 | 1.76 | 0.30 | 31.1 |
| 4/25/2015 17:38:25 | 38.06 | 32.86 | 563 | 1.75 | 0.30 | 30.8 |
| 4/25/2015 17:38:26 | 38.39 | 33.19 | 568 | 1.77 | 0.30 | 31.1 |
| 4/25/2015 17:38:27 | 38.71 | 33.51 | 543 | 1.76 | 0.30 | 29.7 |
| 4/25/2015 17:38:27 | 39.04 | 33.84 | 543 | 1.79 | 0.30 | 29.7 |
| 4/25/2015 17:38:28 | 39.37 | 34.17 | 559 | 1.78 | 0.30 | 30.6 |
| 4/25/2015 17:38:28 | 39.70 | 34.50 | 552 | 1.77 | 0.30 | 30.2 |
| 4/25/2015 17:38:29 | 40.03 | 34.83 | 543 | 1.75 | 0.30 | 29.7 |
| 4/25/2015 17:38:30 | 40.35 | 35.15 | 561 | 1.77 | 0.30 | 30.7 |
| 4/25/2015 17:38:30 | 40.68 | 35.48 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 17:38:31 | 41.01 | 35.81 | 550 | 1.77 | 0.30 | 30.1 |
| 4/25/2015 17:38:32 | 41.34 | 36.14 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 17:38:33 | 41.67 | 36.47 | 569 | 1.78 | 0.30 | 31.1 |
| 4/25/2015 17:38:33 | 41.99 | 36.79 | 565 | 1.76 | 0.30 | 30.9 |
| 4/25/2015 17:38:34 | 42.32 | 37.12 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 17:38:35 | 42.65 | 37.45 | 556 | 1.75 | 0.30 | 30.4 |
| 4/25/2015 17:38:35 | 42.98 | 37.78 | 565 | 1.76 | 0.30 | 30.9 |
| 4/25/2015 17:38:36 | 43.31 | 38.11 | 555 | 1.78 | 0.30 | 30.4 |
| 4/25/2015 17:38:36 | 43.64 | 38.44 | 555 | 1.74 | 0.30 | 30.4 |
| 4/25/2015 17:38:37 | 43.96 | 38.76 | 552 | 1.77 | 0.30 | 30.2 |
| 4/25/2015 17:38:38 | 44.29 | 39.09 | 555 | 1.77 | 0.30 | 30.4 |
| 4/25/2015 17:38:38 | 44.62 | 39.42 | 561 | 1.76 | 0.30 | 30.7 |
| 4/25/2015 17:38:39 | 44.95 | 39.75 | 552 | 1.77 | 0.30 | 30.2 |
| 4/25/2015 17:38:39 | 45.28 | 40.08 | 543 | 1.77 | 0.30 | 29.7 |
| 4/25/2015 17:38:40 | 45.60 | 40.40 | 549 | 1.75 | 0.30 | 30.0 |
| 4/25/2015 17:38:41 | 45.93 | 40.73 | 549 | 1.76 | 0.30 | 30.0 |
| 4/25/2015 17:38:41 | 46.26 | 41.06 | 549 | 1.76 | 0.30 | 30.0 |
| 4/25/2015 17:38:42 | 46.59 | 41.39 | 555 | 1.77 | 0.30 | 30.3 |
| 4/25/2015 17:38:43 | 46.92 | 41.72 | 552 | 1.76 | 0.30 | 30.2 |
| 4/25/2015 17:38:44 | 47.24 | 42.04 | 562 | 1.76 | 0.31 | 30.7 |
| 4/25/2015 17:38:44 | 47.57 | 42.37 | 559 | 1.76 | 0.30 | 30.5 |
| 4/25/2015 17:38:45 | 47.90 | 42.70 | 556 | 1.76 | 0.30 | 30.4 |
| 4/25/2015 17:38:45 | 48.23 | 43.03 | 553 | 1.78 | 0.31 | 30.2 |
| 4/25/2015 17:38:46 | 48.56 | 43.36 | 543 | 1.76 | 0.30 | 29.7 |
| 4/25/2015 17:38:47 | 48.88 | 43.68 | 547 | 1.75 | 0.30 | 29.9 |
| 4/25/2015 17:38:47 | 49.21 | 44.01 | 554 | 1.75 | 0.30 | 30.3 |
| 4/25/2015 17:39:11 | 49.54 | 44.34 | 0 | 1.79 | 0.95 | 0.0 |
| 4/25/2015 17:39:11 | 49.87 | 44.67 | 59 | 1.79 | 1.17 | 3.2 |
| 4/25/2015 17:39:13 | 50.20 | 45.00 | 274 | 1.79 | 1.10 | 15.0 |
| 4/25/2015 17:39:15 | 50.53 | 45.33 | 228 | 1.79 | 1.50 | 12.5 |
| 4/25/2015 17:39:16 | 50.85 | 45.65 | 240 | 1.79 | 1.08 | 13.1 |
| 4/25/2015 17:39:36 | 51.18 | 45.98 | 13 | 1.79 | 1.05 | 0.7 |
| 4/25/2015 17:39:38 | 51.51 | 46.31 | 121 | 1.79 | 1.13 | 6.6 |
| 4/25/2015 17:39:39 | 51.84 | 46.64 | 224 | 1.76 | 1.14 | 12.3 |
| 4/25/2015 17:39:41 | 52.17 | 46.97 | 229 | 1.76 | 1.33 | 12.5 |
| 4/25/2015 17:39:43 | 52.49 | 47.29 | 169 | 1.78 | 1.09 | 9.2 |
| 4/25/2015 17:40:35 | 52.82 | 47.62 | 92 | 1.76 | 1.08 | 5.1 |
| 4/25/2015 17:40:38 | 53.15 | 47.95 | 176 | 1.76 | 1.15 | 9.6 |
| 4/25/2015 17:41:24 | 53.48 | 48.28 | 113 | 1.77 | 1.13 | 6.2 |
| 4/25/2015 17:41:58 | 53.81 | 48.61 | 22 | 1.78 | 1.27 | 1.2 |
| 4/25/2015 17:42:00 | 54.13 | 48.93 | 140 | 1.80 | 1.08 | 7.7 |
| 4/25/2015 17:42:02 | 54.46 | 49.26 | 214 | 1.75 | 1.14 | 11.7 |
| 4/25/2015 17:42:03 | 54.79 | 49.59 | 259 | 1.78 | 1.02 | 14.1 |
| 4/25/2015 17:42:14 | 55.12 | 49.92 | 127 | 1.81 | 1.00 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:42:15 | 55.45 | 50.25 | 246 | 1.79 | 1.28 | 13.5 |
| 4/25/2015 | 17:42:56 | 55.77 | 50.57 | 17 | 1.77 | 1.10 | 0.9 |
| 4/25/2015 | 17:42:57 | 56.10 | 50.90 | 156 | 1.77 | 1.37 | 8.5 |
| 4/25/2015 | 17:42:59 | 56.43 | 51.23 | 252 | 1.78 | 1.24 | 13.8 |
| 4/25/2015 | 17:43:00 | 56.76 | 51.56 | 262 | 1.76 | 1.06 | 14.3 |
| 4/25/2015 | 17:43:01 | 57.09 | 51.89 | 281 | 1.78 | 1.17 | 15.4 |
| 4/25/2015 | 17:43:03 | 57.41 | 52.21 | 272 | 1.79 | 1.22 | 14.9 |
| 4/25/2015 | 17:43:05 | 57.74 | 52.54 | 230 | 1.76 | 1.16 | 12.6 |
| 4/25/2015 | 17:43:26 | 58.07 | 52.87 | 72 | 1.76 | 1.19 | 3.9 |
| 4/25/2015 | 17:43:28 | 58.40 | 53.20 | 169 | 1.77 | 1.35 | 9.2 |
| 4/25/2015 | 17:43:30 | 58.73 | 53.53 | 174 | 1.78 | 1.15 | 9.5 |
| 4/25/2015 | 17:43:31 | 59.06 | 53.86 | 188 | 1.79 | 1.05 | 10.3 |
| 4/25/2015 | 17:44:15 | 59.38 | 54.18 | 32 | 1.77 | 1.18 | 1.7 |
| 4/25/2015 | 17:44:20 | 59.71 | 54.51 | 72 | 1.77 | 1.05 | 3.9 |
| 4/25/2015 | 17:44:27 | 60.04 | 54.84 | 46 | 1.78 | 1.15 | 2.5 |
| 4/25/2015 | 17:44:29 | 60.10 | 54.90 | 43 | 1.79 | 1.28 | 2.4 |

## H397 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:36:16

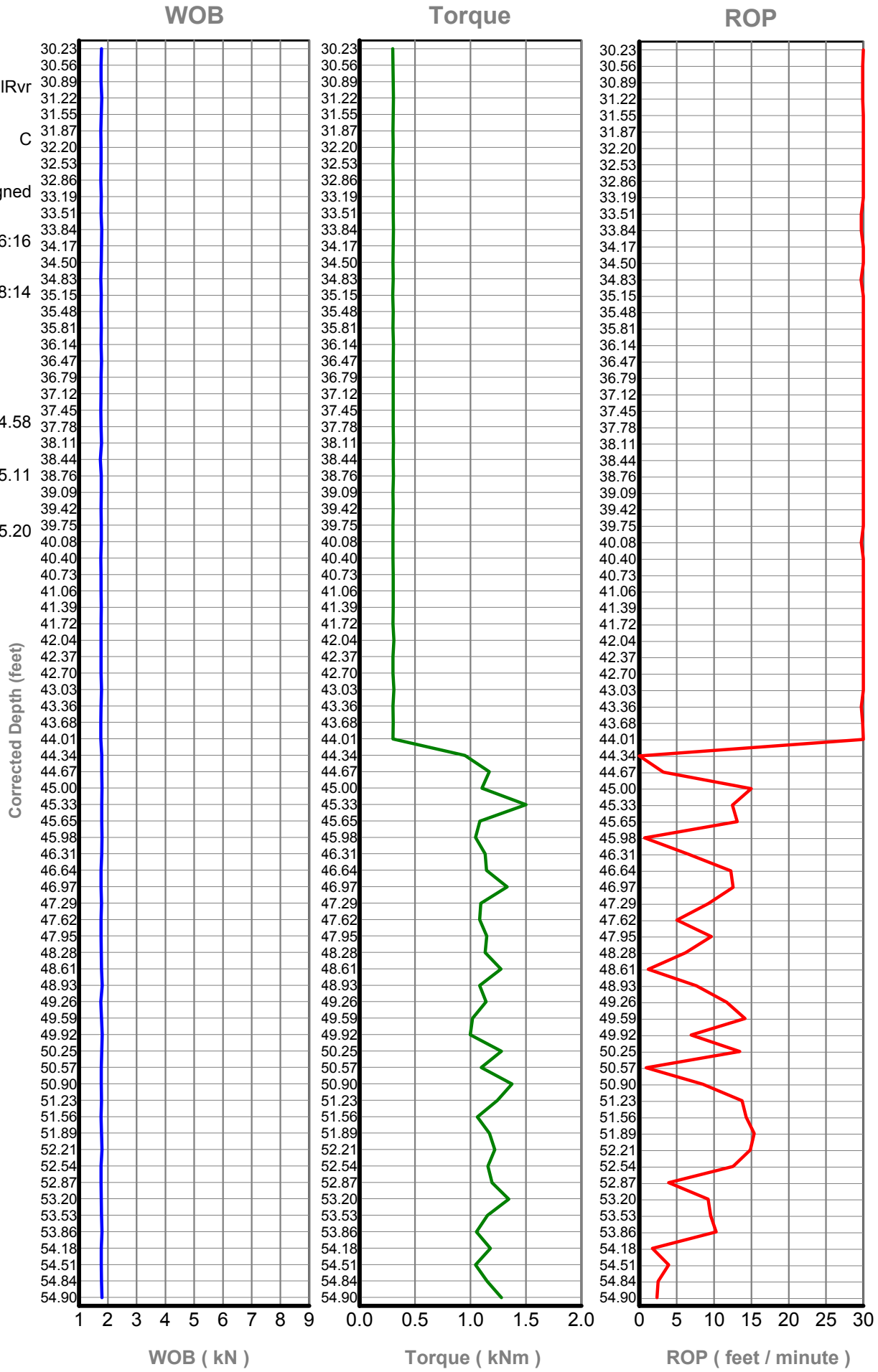
**End Date:**
4/25/2015 17:48:14

**Operator Note:**
'5.2 5.1 C Auto Complete'

**Northing:**
366,154.58

**Easting:**
250,765.11

**Tide (feet):**
5.20



## Hole: H398 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:46:56 | 31.82 | 30.22 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 14:46:56 | 32.15 | 30.55 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/25/2015 14:46:56 | 32.48 | 30.88 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 14:46:57 | 32.81 | 31.21 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 14:46:57 | 33.14 | 31.54 | 1,058 | 0.31 | 0.31 | 57.8 |
| 4/25/2015 14:46:57 | 33.46 | 31.86 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 14:46:58 | 33.79 | 32.19 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/25/2015 14:46:58 | 34.12 | 32.52 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/25/2015 14:46:58 | 34.45 | 32.85 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:46:59 | 34.78 | 33.18 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:46:59 | 35.11 | 33.51 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 14:46:59 | 35.43 | 33.83 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:47:00 | 35.76 | 34.16 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:47:00 | 36.09 | 34.49 | 1,043 | 0.32 | 0.31 | 57.1 |
| 4/25/2015 14:47:00 | 36.42 | 34.82 | 1,063 | 0.31 | 0.33 | 58.1 |
| 4/25/2015 14:47:01 | 36.75 | 35.15 | 1,063 | 0.31 | 0.33 | 58.1 |
| 4/25/2015 14:47:01 | 37.07 | 35.47 | 1,047 | 0.31 | 0.32 | 57.3 |
| 4/25/2015 14:47:02 | 37.40 | 35.80 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 14:47:02 | 37.73 | 36.13 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 14:47:02 | 38.06 | 36.46 | 1,047 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 14:47:03 | 38.39 | 36.79 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 14:47:03 | 38.71 | 37.11 | 1,050 | 0.31 | 0.31 | 57.4 |
| 4/25/2015 14:47:03 | 39.04 | 37.44 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/25/2015 14:47:04 | 39.37 | 37.77 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/25/2015 14:47:04 | 39.70 | 38.10 | 1,036 | 0.31 | 0.32 | 56.7 |
| 4/25/2015 14:47:04 | 40.03 | 38.43 | 1,036 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 14:47:05 | 40.35 | 38.75 | 1,036 | 0.32 | 0.32 | 56.7 |
| 4/25/2015 14:47:05 | 40.68 | 39.08 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 14:47:05 | 41.01 | 39.41 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 14:47:06 | 41.34 | 39.74 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/25/2015 14:47:06 | 41.67 | 40.07 | 1,052 | 0.58 | 0.32 | 57.5 |
| 4/25/2015 14:47:06 | 41.99 | 40.39 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/25/2015 14:47:07 | 42.32 | 40.72 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/25/2015 14:47:07 | 42.65 | 41.05 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/25/2015 14:47:07 | 42.98 | 41.38 | 1,019 | 0.33 | 0.31 | 55.7 |
| 4/25/2015 14:47:08 | 43.31 | 41.71 | 1,019 | 0.33 | 0.31 | 55.7 |
| 4/25/2015 14:47:08 | 43.64 | 42.04 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/25/2015 14:47:08 | 43.96 | 42.36 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 14:47:09 | 44.29 | 42.69 | 1,048 | 0.31 | 0.31 | 57.3 |
| 4/25/2015 14:47:09 | 44.62 | 43.02 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/25/2015 14:47:09 | 44.95 | 43.35 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:47:10 | 45.28 | 43.68 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 14:47:10 | 45.60 | 44.00 | 1,016 | 0.33 | 0.31 | 55.5 |
| 4/25/2015 14:47:10 | 45.93 | 44.33 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/25/2015 14:47:11 | 46.26 | 44.66 | 1,016 | 0.33 | 0.32 | 55.5 |
| 4/25/2015 14:47:11 | 46.59 | 44.99 | 1,046 | 0.31 | 0.36 | 57.2 |
| 4/25/2015 14:47:18 | 46.92 | 45.32 | 0 | 3.66 | 0.37 | 0.0 |
| 4/25/2015 14:47:19 | 47.24 | 45.64 | 148 | 4.58 | 0.38 | 8.1 |
| 4/25/2015 14:47:21 | 47.57 | 45.97 | 234 | 4.17 | 0.38 | 12.8 |
| 4/25/2015 14:47:24 | 47.90 | 46.30 | 144 | 3.78 | 0.37 | 7.9 |
| 4/25/2015 14:47:25 | 48.23 | 46.63 | 176 | 3.56 | 0.38 | 9.6 |
| 4/25/2015 14:47:30 | 48.56 | 46.96 | 0 | 3.90 | 0.37 | 0.0 |
| 4/25/2015 14:47:32 | 48.88 | 47.28 | 90 | 4.47 | 0.38 | 4.9 |
| 4/25/2015 14:47:36 | 49.21 | 47.61 | 78 | 4.28 | 0.37 | 4.3 |
| 4/25/2015 14:47:40 | 49.54 | 47.94 | 97 | 3.92 | 0.38 | 5.3 |
| 4/25/2015 14:47:45 | 49.87 | 48.27 | 24 | 3.18 | 0.37 | 1.3 |
| 4/25/2015 14:47:46 | 50.20 | 48.60 | 173 | 3.53 | 0.37 | 9.5 |
| 4/25/2015 14:47:46 | 50.53 | 48.93 | 173 | 3.62 | 0.37 | 9.5 |
| 4/25/2015 14:47:47 | 50.85 | 49.25 | 363 | 3.22 | 0.35 | 19.9 |
| 4/25/2015 14:47:52 | 51.18 | 49.58 | 0 | 4.14 | 0.37 | 0.0 |
| 4/25/2015 14:47:53 | 51.51 | 49.91 | 69 | 3.36 | 0.37 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:47:54 | 51.84 | 50.24 | 163 | 3.35 | 0.37 | 8.9 |
| 4/25/2015 | 14:47:55 | 52.17 | 50.57 | 354 | 1.93 | 0.34 | 19.3 |
| 4/25/2015 | 14:47:55 | 52.49 | 50.89 | 354 | 1.93 | 0.34 | 19.3 |
| 4/25/2015 | 14:47:55 | 52.82 | 51.22 | 516 | 1.91 | 0.34 | 28.2 |
| 4/25/2015 | 14:47:56 | 53.15 | 51.55 | 584 | 1.87 | 0.34 | 31.9 |
| 4/25/2015 | 14:47:56 | 53.48 | 51.88 | 653 | 1.93 | 0.34 | 35.7 |
| 4/25/2015 | 14:47:57 | 53.81 | 52.21 | 653 | 1.94 | 0.34 | 35.7 |
| 4/25/2015 | 14:47:57 | 54.13 | 52.53 | 722 | 1.86 | 0.34 | 39.5 |
| 4/25/2015 | 14:47:58 | 54.46 | 52.86 | 722 | 2.21 | 0.36 | 39.5 |
| 4/25/2015 | 14:49:19 | 54.79 | 53.19 | 20 | 3.66 | 0.40 | 1.1 |
| 4/25/2015 | 14:49:26 | 55.12 | 53.52 | 52 | 3.58 | 0.40 | 2.8 |
| 4/25/2015 | 14:49:33 | 55.45 | 53.85 | 52 | 3.16 | 0.41 | 2.8 |
| 4/25/2015 | 14:49:39 | 55.77 | 54.17 | 54 | 3.08 | 0.40 | 2.9 |
| 4/25/2015 | 14:49:46 | 56.10 | 54.50 | 55 | 3.31 | 0.40 | 3.0 |
| 4/25/2015 | 14:49:47 | 56.18 | 54.58 | 61 | 4.19 | 0.40 | 3.3 |

## H398 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:45:22

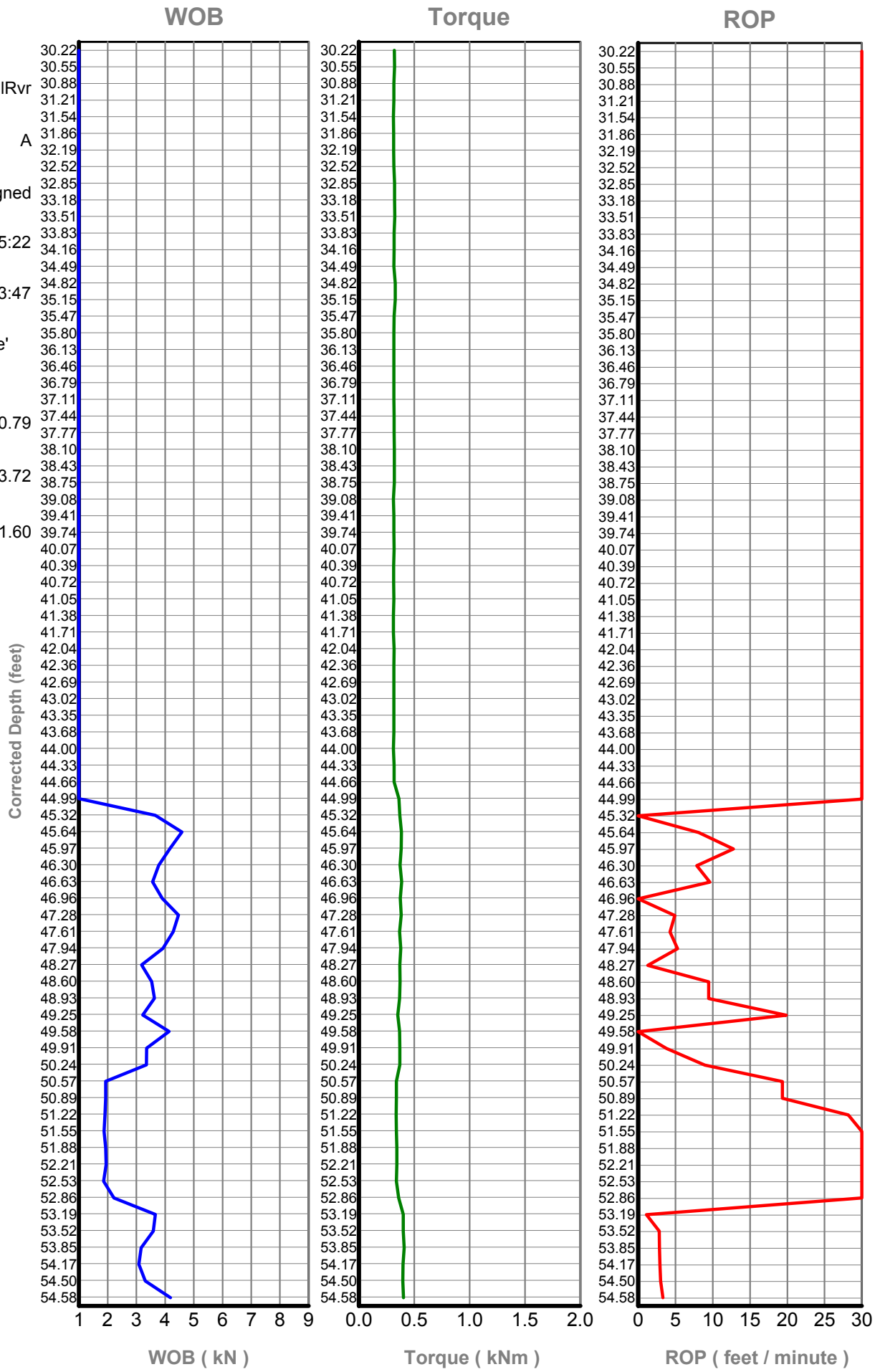
**End Date:**
4/25/2015 14:53:47

**Operator Note:**
'1.6 1.2 b Auto Complete'

**Northing:**
366,210.79

**Easting:**
250,833.72

**Tide (feet):**
1.60



## Hole: H399 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:55:43 | 31.82 | 30.02 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 14:55:43 | 32.15 | 30.35 | 1,055 | 0.52 | 0.32 | 57.7 |
| 4/25/2015 14:55:44 | 32.48 | 30.68 | 1,055 | 0.52 | 0.32 | 57.7 |
| 4/25/2015 14:55:44 | 32.81 | 31.01 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 14:55:44 | 33.14 | 31.34 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:45 | 33.46 | 31.66 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:45 | 33.79 | 31.99 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 14:55:45 | 34.12 | 32.32 | 1,067 | 0.33 | 0.32 | 58.4 |
| 4/25/2015 14:55:46 | 34.45 | 32.65 | 1,067 | 0.33 | 0.32 | 58.4 |
| 4/25/2015 14:55:46 | 34.78 | 32.98 | 1,073 | 0.33 | 0.32 | 58.7 |
| 4/25/2015 14:55:46 | 35.11 | 33.31 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/25/2015 14:55:47 | 35.43 | 33.63 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/25/2015 14:55:47 | 35.76 | 33.96 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 14:55:47 | 36.09 | 34.29 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 14:55:48 | 36.42 | 34.62 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 14:55:48 | 36.75 | 34.95 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 14:55:48 | 37.07 | 35.27 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:49 | 37.40 | 35.60 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:49 | 37.73 | 35.93 | 1,058 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 14:55:49 | 38.06 | 36.26 | 1,058 | 0.33 | 0.32 | 57.9 |
| 4/25/2015 14:55:49 | 38.39 | 36.59 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 14:55:50 | 38.71 | 36.91 | 1,061 | 0.33 | 0.31 | 58.0 |
| 4/25/2015 14:55:50 | 39.04 | 37.24 | 1,061 | 0.33 | 0.31 | 58.0 |
| 4/25/2015 14:55:50 | 39.37 | 37.57 | 1,061 | 0.33 | 0.32 | 58.0 |
| 4/25/2015 14:55:51 | 39.70 | 37.90 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 14:55:51 | 40.03 | 38.23 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 14:55:51 | 40.35 | 38.55 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/25/2015 14:55:52 | 40.68 | 38.88 | 1,067 | 0.32 | 0.32 | 58.3 |
| 4/25/2015 14:55:52 | 41.01 | 39.21 | 1,067 | 0.32 | 0.32 | 58.3 |
| 4/25/2015 14:55:53 | 41.34 | 39.54 | 1,061 | 0.32 | 0.32 | 58.0 |
| 4/25/2015 14:55:53 | 41.67 | 39.87 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:54 | 41.99 | 40.19 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:54 | 42.32 | 40.52 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 14:55:54 | 42.65 | 40.85 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 14:55:54 | 42.98 | 41.18 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:55 | 43.31 | 41.51 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:55:55 | 43.64 | 41.84 | 1,055 | 0.32 | 0.32 | 57.7 |
| 4/25/2015 14:55:55 | 43.96 | 42.16 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/25/2015 14:55:56 | 44.29 | 42.49 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:55:56 | 44.62 | 42.82 | 1,052 | 0.32 | 0.32 | 57.5 |
| 4/25/2015 14:55:56 | 44.95 | 43.15 | 1,061 | 0.31 | 0.32 | 58.0 |
| 4/25/2015 14:55:57 | 45.28 | 43.48 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:57 | 45.60 | 43.80 | 1,058 | 0.32 | 0.32 | 57.9 |
| 4/25/2015 14:55:57 | 45.93 | 44.13 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/25/2015 14:55:58 | 46.26 | 44.46 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 14:55:58 | 46.59 | 44.79 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 14:55:58 | 46.92 | 45.12 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/25/2015 14:55:59 | 47.24 | 45.44 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:55:59 | 47.57 | 45.77 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/25/2015 14:55:59 | 47.90 | 46.10 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 14:56:00 | 48.23 | 46.43 | 1,038 | 0.29 | 0.37 | 56.8 |
| 4/25/2015 14:56:09 | 48.56 | 46.76 | 34 | 3.75 | 0.39 | 1.9 |
| 4/25/2015 14:56:10 | 48.88 | 47.08 | 157 | 3.16 | 0.37 | 8.6 |
| 4/25/2015 14:56:15 | 49.21 | 47.41 | 14 | 3.75 | 0.37 | 0.8 |
| 4/25/2015 14:56:16 | 49.54 | 47.74 | 169 | 3.00 | 0.38 | 9.2 |
| 4/25/2015 14:56:30 | 49.87 | 48.07 | 36 | 3.94 | 0.38 | 2.0 |
| 4/25/2015 14:56:31 | 50.20 | 48.40 | 176 | 3.55 | 0.38 | 9.6 |
| 4/25/2015 14:56:32 | 50.53 | 48.73 | 297 | 3.88 | 0.37 | 16.2 |
| 4/25/2015 14:56:44 | 50.85 | 49.05 | 43 | 3.33 | 0.38 | 2.4 |
| 4/25/2015 14:56:50 | 51.18 | 49.38 | 0 | 5.05 | 0.36 | 0.0 |
| 4/25/2015 14:56:51 | 51.51 | 49.71 | 103 | 2.92 | 0.36 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:56:52 | 51.84 | 50.04 | 280 | 3.82 | 0.38 | 15.3 |
| 4/25/2015 | 14:57:02 | 52.17 | 50.37 | 0 | 3.71 | 0.37 | 0.0 |
| 4/25/2015 | 14:57:02 | 52.49 | 50.69 | 82 | 2.46 | 0.36 | 4.5 |
| 4/25/2015 | 14:57:03 | 52.82 | 51.02 | 193 | 2.19 | 0.36 | 10.6 |
| 4/25/2015 | 14:57:18 | 53.15 | 51.35 | 54 | 2.20 | 0.35 | 2.9 |
| 4/25/2015 | 14:57:18 | 53.48 | 51.68 | 54 | 1.95 | 0.34 | 2.9 |
| 4/25/2015 | 14:57:19 | 53.81 | 52.01 | 203 | 1.89 | 0.35 | 11.1 |
| 4/25/2015 | 14:57:19 | 54.13 | 52.33 | 365 | 2.16 | 0.34 | 20.0 |
| 4/25/2015 | 14:57:20 | 54.46 | 52.66 | 505 | 2.44 | 0.36 | 27.6 |
| 4/25/2015 | 14:57:20 | 54.79 | 52.99 | 613 | 2.43 | 0.37 | 33.5 |
| 4/25/2015 | 14:57:21 | 55.12 | 53.32 | 651 | 2.48 | 0.37 | 35.6 |
| 4/25/2015 | 14:57:22 | 55.45 | 53.65 | 525 | 2.29 | 0.36 | 28.7 |
| 4/25/2015 | 14:57:22 | 55.77 | 53.97 | 497 | 2.08 | 0.35 | 27.2 |
| 4/25/2015 | 14:57:23 | 56.10 | 54.30 | 514 | 2.11 | 0.36 | 28.1 |
| 4/25/2015 | 14:57:23 | 56.43 | 54.63 | 547 | 2.53 | 0.36 | 29.9 |
| 4/25/2015 | 14:57:24 | 56.76 | 54.96 | 558 | 2.10 | 0.36 | 30.5 |
| 4/25/2015 | 14:57:35 | 57.09 | 55.29 | 89 | 3.48 | 0.37 | 4.8 |
| 4/25/2015 | 14:57:37 | 57.41 | 55.61 | 237 | 6.99 | 0.39 | 13.0 |
| 4/25/2015 | 14:57:38 | 57.74 | 55.94 | 339 | 3.18 | 0.38 | 18.5 |
| 4/25/2015 | 14:57:39 | 58.07 | 56.27 | 250 | 3.31 | 0.37 | 13.7 |
| 4/25/2015 | 14:57:42 | 58.40 | 56.60 | 154 | 3.31 | 0.38 | 8.4 |
| 4/25/2015 | 14:57:46 | 58.64 | 56.84 | 43 | 4.17 | 0.37 | 2.3 |

## H399 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:54:01

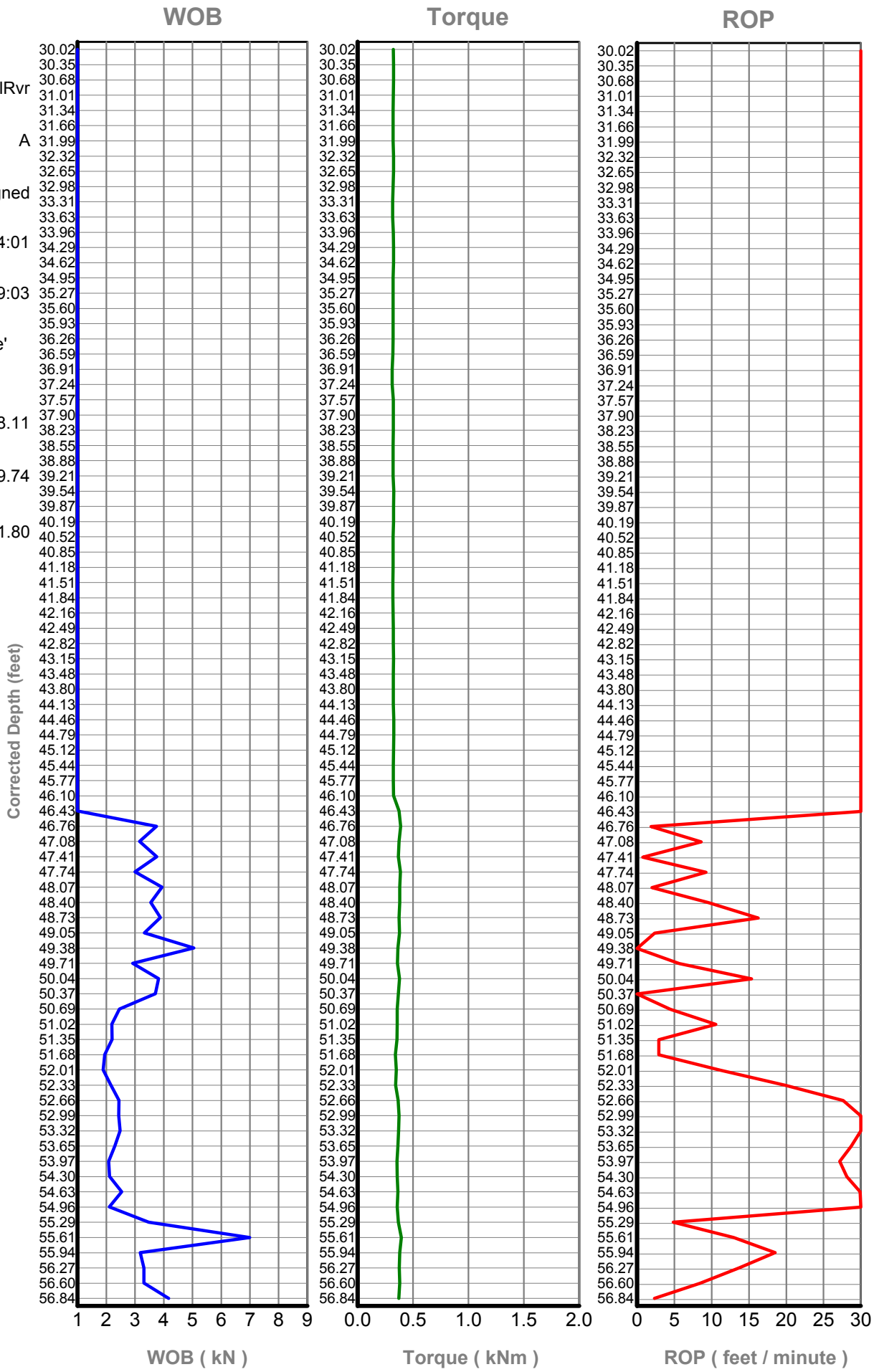
**End Date:**
4/25/2015 14:59:03

**Operator Note:**
'1.8 1.5 b Auto Complete'

**Northing:**
366,248.11

**Easting:**
250,879.74

**Tide (feet):**
1.80



## Hole: H4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:52:13 | 35.11 | 30.21 | 975 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 5:52:13 | 35.43 | 30.53 | 975 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 5:52:13 | 35.76 | 30.86 | 968 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 5:52:14 | 36.09 | 31.19 | 974 | 0.34 | 0.32 | 53.3 |
| 4/27/2015 5:52:14 | 36.42 | 31.52 | 974 | 0.34 | 0.32 | 53.3 |
| 4/27/2015 5:52:14 | 36.75 | 31.85 | 962 | 0.35 | 0.32 | 52.6 |
| 4/27/2015 5:52:15 | 37.07 | 32.17 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:15 | 37.40 | 32.50 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:16 | 37.73 | 32.83 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:16 | 38.06 | 33.16 | 963 | 0.35 | 0.32 | 52.7 |
| 4/27/2015 5:52:16 | 38.39 | 33.49 | 958 | 0.35 | 0.32 | 52.4 |
| 4/27/2015 5:52:17 | 38.71 | 33.81 | 958 | 0.35 | 0.32 | 52.4 |
| 4/27/2015 5:52:17 | 39.04 | 34.14 | 958 | 0.35 | 0.32 | 52.4 |
| 4/27/2015 5:52:17 | 39.37 | 34.47 | 961 | 0.35 | 0.32 | 52.5 |
| 4/27/2015 5:52:18 | 39.70 | 34.80 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 5:52:19 | 40.03 | 35.13 | 972 | 0.35 | 0.32 | 53.1 |
| 4/27/2015 5:52:19 | 40.35 | 35.45 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:19 | 40.68 | 35.78 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:20 | 41.01 | 36.11 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:20 | 41.34 | 36.44 | 968 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 5:52:20 | 41.67 | 36.77 | 968 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 5:52:21 | 41.99 | 37.09 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:21 | 42.32 | 37.42 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:21 | 42.65 | 37.75 | 963 | 0.35 | 0.32 | 52.7 |
| 4/27/2015 5:52:22 | 42.98 | 38.08 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:22 | 43.31 | 38.41 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:22 | 43.64 | 38.74 | 969 | 0.35 | 0.32 | 53.0 |
| 4/27/2015 5:52:23 | 43.96 | 39.06 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:23 | 44.29 | 39.39 | 975 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 5:52:24 | 44.62 | 39.72 | 975 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 5:52:24 | 44.95 | 40.05 | 960 | 0.35 | 0.32 | 52.5 |
| 4/27/2015 5:52:24 | 45.28 | 40.38 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:25 | 45.60 | 40.70 | 965 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 5:52:25 | 45.93 | 41.03 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:25 | 46.26 | 41.36 | 957 | 0.35 | 0.32 | 52.3 |
| 4/27/2015 5:52:26 | 46.59 | 41.69 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 5:52:26 | 46.92 | 42.02 | 954 | 0.34 | 0.32 | 52.2 |
| 4/27/2015 5:52:26 | 47.24 | 42.34 | 957 | 0.33 | 0.34 | 52.3 |
| 4/27/2015 5:52:27 | 47.57 | 42.67 | 936 | 0.32 | 0.36 | 51.2 |
| 4/27/2015 5:52:42 | 47.90 | 43.00 | 41 | 2.07 | 0.32 | 2.3 |
| 4/27/2015 5:52:42 | 48.23 | 43.33 | 41 | 2.07 | 0.32 | 2.3 |
| 4/27/2015 5:52:42 | 48.56 | 43.66 | 219 | 3.05 | 0.34 | 12.0 |
| 4/27/2015 5:52:45 | 48.88 | 43.98 | 261 | 4.15 | 0.40 | 14.3 |
| 4/27/2015 5:52:47 | 49.21 | 44.31 | 117 | 3.05 | 0.37 | 6.4 |
| 4/27/2015 5:52:48 | 49.54 | 44.64 | 178 | 3.61 | 0.38 | 9.8 |
| 4/27/2015 5:52:50 | 49.87 | 44.97 | 277 | 3.15 | 0.37 | 15.1 |
| 4/27/2015 5:52:52 | 50.20 | 45.30 | 233 | 2.57 | 0.39 | 12.8 |
| 4/27/2015 5:52:55 | 50.53 | 45.63 | 104 | 3.09 | 0.40 | 5.7 |
| 4/27/2015 5:53:02 | 50.85 | 45.95 | 38 | 3.38 | 0.40 | 2.1 |
| 4/27/2015 5:53:08 | 51.18 | 46.28 | 96 | 3.67 | 0.39 | 5.2 |
| 4/27/2015 5:53:11 | 51.51 | 46.61 | 139 | 3.17 | 0.39 | 7.6 |
| 4/27/2015 5:53:12 | 51.84 | 46.94 | 182 | 3.72 | 0.38 | 9.9 |
| 4/27/2015 5:53:14 | 52.17 | 47.27 | 221 | 3.18 | 0.39 | 12.1 |
| 4/27/2015 5:53:18 | 52.49 | 47.59 | 89 | 3.73 | 0.40 | 4.9 |
| 4/27/2015 5:53:23 | 52.82 | 47.92 | 86 | 3.54 | 0.40 | 4.7 |
| 4/27/2015 5:53:28 | 53.15 | 48.25 | 70 | 3.99 | 0.40 | 3.8 |
| 4/27/2015 5:53:33 | 53.48 | 48.58 | 58 | 4.86 | 0.39 | 3.2 |
| 4/27/2015 5:53:39 | 53.81 | 48.91 | 52 | 3.75 | 0.40 | 2.8 |
| 4/27/2015 5:53:45 | 54.13 | 49.23 | 62 | 3.88 | 0.40 | 3.4 |
| 4/27/2015 5:53:50 | 54.46 | 49.56 | 69 | 3.62 | 0.40 | 3.8 |
| 4/27/2015 5:53:57 | 54.79 | 49.89 | 50 | 3.35 | 0.40 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 5:54:04 | 55.12 | 50.22 | 61 | 4.01 | 0.39 | 3.3 |
| 4/27/2015 | 5:54:09 | 55.45 | 50.55 | 66 | 3.37 | 0.40 | 3.6 |
| 4/27/2015 | 5:54:16 | 55.77 | 50.87 | 52 | 3.46 | 0.40 | 2.8 |
| 4/27/2015 | 5:54:22 | 56.10 | 51.20 | 52 | 3.45 | 0.40 | 2.9 |
| 4/27/2015 | 5:54:29 | 56.43 | 51.53 | 52 | 3.27 | 0.40 | 2.8 |
| 4/27/2015 | 5:54:32 | 56.62 | 51.72 | 54 | 4.44 | 0.39 | 3.0 |

## H4 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:49:15

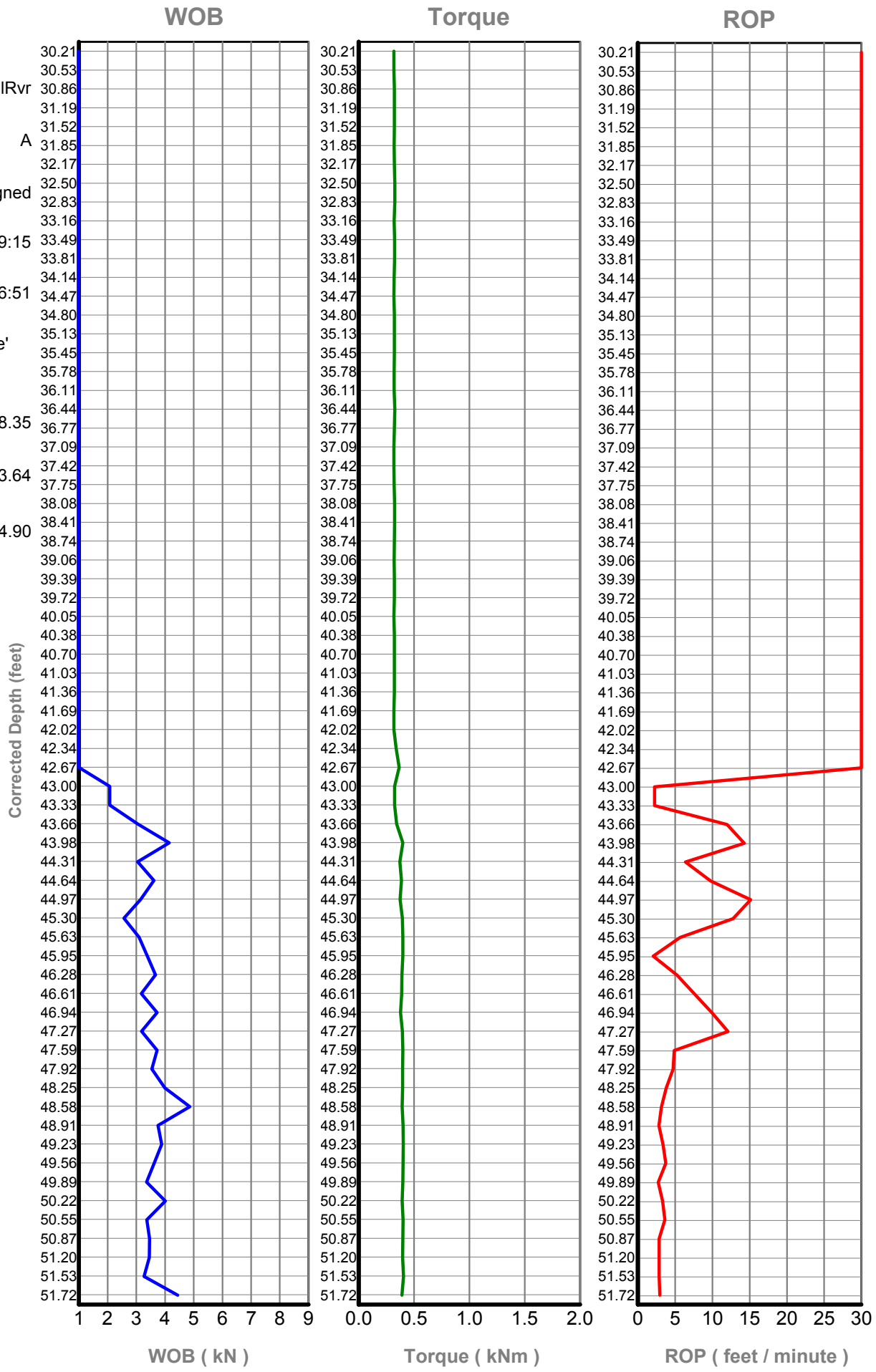
**End Date:**
4/27/2015 5:56:51

**Operator Note:**
'4.9 4.6 b Auto Complete'

**Northing:**
365,748.35

**Easting:**
249,183.64

**Tide (feet):**
4.90



## Hole: H40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:32:59 | 30.84 | 30.04 | 922 | 1.17 | 0.36 | 50.4 |
| 4/23/2015 22:32:59 | 31.17 | 30.37 | 922 | 1.14 | 0.35 | 50.4 |
| 4/23/2015 22:32:59 | 31.50 | 30.70 | 914 | 1.16 | 0.36 | 50.0 |
| 4/23/2015 22:33:00 | 31.82 | 31.02 | 903 | 1.16 | 0.36 | 49.4 |
| 4/23/2015 22:33:00 | 32.15 | 31.35 | 903 | 1.16 | 0.36 | 49.4 |
| 4/23/2015 22:33:00 | 32.48 | 31.68 | 920 | 1.17 | 0.36 | 50.3 |
| 4/23/2015 22:33:01 | 32.81 | 32.01 | 931 | 1.16 | 0.36 | 50.9 |
| 4/23/2015 22:33:01 | 33.14 | 32.34 | 934 | 1.09 | 0.32 | 51.1 |
| 4/23/2015 22:33:02 | 33.46 | 32.66 | 934 | 1.09 | 0.32 | 51.1 |
| 4/23/2015 22:33:02 | 33.79 | 32.99 | 937 | 0.20 | 0.32 | 51.3 |
| 4/23/2015 22:33:02 | 34.12 | 33.32 | 935 | 0.20 | 0.33 | 51.1 |
| 4/23/2015 22:33:03 | 34.45 | 33.65 | 935 | 0.19 | 0.32 | 51.1 |
| 4/23/2015 22:33:03 | 34.78 | 33.98 | 935 | 0.19 | 0.32 | 51.1 |
| 4/23/2015 22:33:03 | 35.11 | 34.31 | 929 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:33:04 | 35.43 | 34.63 | 921 | 0.19 | 0.32 | 50.3 |
| 4/23/2015 22:33:04 | 35.76 | 34.96 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 22:33:05 | 36.09 | 35.29 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 22:33:05 | 36.42 | 35.62 | 928 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:33:05 | 36.75 | 35.95 | 916 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 22:33:06 | 37.07 | 36.27 | 913 | 0.20 | 0.32 | 49.9 |
| 4/23/2015 22:33:06 | 37.40 | 36.60 | 913 | 0.20 | 0.32 | 49.9 |
| 4/23/2015 22:33:06 | 37.73 | 36.93 | 913 | 0.20 | 0.32 | 49.9 |
| 4/23/2015 22:33:07 | 38.06 | 37.26 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 22:33:08 | 38.39 | 37.59 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 22:33:08 | 38.71 | 37.91 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 22:33:08 | 39.04 | 38.24 | 926 | 0.20 | 0.32 | 50.6 |
| 4/23/2015 22:33:09 | 39.37 | 38.57 | 927 | 0.21 | 0.32 | 50.7 |
| 4/23/2015 22:33:09 | 39.70 | 38.90 | 927 | 0.21 | 0.32 | 50.7 |
| 4/23/2015 22:33:09 | 40.03 | 39.23 | 935 | 0.20 | 0.32 | 51.1 |
| 4/23/2015 22:33:10 | 40.35 | 39.55 | 941 | 0.20 | 0.32 | 51.4 |
| 4/23/2015 22:33:10 | 40.68 | 39.88 | 932 | 0.20 | 0.32 | 51.0 |
| 4/23/2015 22:33:11 | 41.01 | 40.21 | 932 | 0.20 | 0.32 | 51.0 |
| 4/23/2015 22:33:11 | 41.34 | 40.54 | 925 | 0.20 | 0.32 | 50.6 |
| 4/23/2015 22:33:11 | 41.67 | 40.87 | 925 | 0.20 | 0.32 | 50.6 |
| 4/23/2015 22:33:12 | 41.99 | 41.19 | 919 | 0.20 | 0.32 | 50.3 |
| 4/23/2015 22:33:12 | 42.32 | 41.52 | 919 | 0.20 | 0.32 | 50.3 |
| 4/23/2015 22:33:12 | 42.65 | 41.85 | 919 | 0.20 | 0.32 | 50.3 |
| 4/23/2015 22:33:13 | 42.98 | 42.18 | 909 | 0.20 | 0.32 | 49.7 |
| 4/23/2015 22:33:13 | 43.31 | 42.51 | 926 | 0.20 | 0.32 | 50.7 |
| 4/23/2015 22:33:14 | 43.64 | 42.84 | 926 | 0.20 | 0.32 | 50.7 |
| 4/23/2015 22:33:14 | 43.96 | 43.16 | 929 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:33:14 | 44.29 | 43.49 | 932 | 0.20 | 0.32 | 51.0 |
| 4/23/2015 22:33:15 | 44.62 | 43.82 | 929 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:33:15 | 44.95 | 44.15 | 929 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:33:15 | 45.28 | 44.48 | 948 | 0.20 | 0.33 | 51.8 |
| 4/23/2015 22:33:16 | 45.60 | 44.80 | 919 | 0.20 | 0.33 | 50.3 |
| 4/23/2015 22:33:16 | 45.93 | 45.13 | 896 | 0.20 | 0.34 | 49.0 |
| 4/23/2015 22:33:17 | 46.26 | 45.46 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 22:33:17 | 46.59 | 45.79 | 867 | 0.20 | 0.33 | 47.4 |
| 4/23/2015 22:33:18 | 46.92 | 46.12 | 844 | 0.20 | 0.33 | 46.1 |
| 4/23/2015 22:33:18 | 47.24 | 46.44 | 812 | 0.20 | 0.33 | 44.4 |
| 4/23/2015 22:33:19 | 47.57 | 46.77 | 798 | 0.20 | 0.34 | 43.6 |
| 4/23/2015 22:33:19 | 47.90 | 47.10 | 787 | 0.20 | 0.34 | 43.0 |
| 4/23/2015 22:33:20 | 48.23 | 47.43 | 786 | 0.19 | 0.34 | 43.0 |
| 4/23/2015 22:33:20 | 48.56 | 47.76 | 773 | 0.20 | 0.34 | 42.3 |
| 4/23/2015 22:33:21 | 48.88 | 48.08 | 766 | 0.20 | 0.34 | 41.9 |
| 4/23/2015 22:33:21 | 49.21 | 48.41 | 757 | 0.20 | 0.34 | 41.4 |
| 4/23/2015 22:33:22 | 49.54 | 48.74 | 753 | 0.19 | 0.34 | 41.2 |
| 4/23/2015 22:33:22 | 49.87 | 49.07 | 753 | 0.19 | 0.34 | 41.2 |
| 4/23/2015 22:33:22 | 50.20 | 49.40 | 737 | 0.19 | 0.34 | 40.3 |
| 4/23/2015 22:33:23 | 50.53 | 49.73 | 705 | 0.19 | 0.35 | 38.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:33:24 | 50.85 | 50.05 | 684 | 0.19 | 0.35 | 37.4 |
| 4/23/2015 | 22:33:24 | 51.18 | 50.38 | 669 | 0.19 | 0.35 | 36.6 |
| 4/23/2015 | 22:33:25 | 51.51 | 50.71 | 665 | 0.14 | 0.35 | 36.4 |
| 4/23/2015 | 22:33:25 | 51.84 | 51.04 | 656 | 0.19 | 0.35 | 35.9 |
| 4/23/2015 | 22:33:26 | 52.17 | 51.37 | 652 | 0.19 | 0.35 | 35.6 |
| 4/23/2015 | 22:33:26 | 52.49 | 51.69 | 654 | 0.16 | 0.37 | 35.8 |
| 4/23/2015 | 22:33:27 | 52.82 | 52.02 | 608 | 0.18 | 0.36 | 33.2 |
| 4/23/2015 | 22:33:28 | 53.15 | 52.35 | 541 | 0.20 | 0.36 | 29.6 |
| 4/23/2015 | 22:33:29 | 53.48 | 52.68 | 526 | 0.19 | 0.36 | 28.7 |
| 4/23/2015 | 22:33:29 | 53.81 | 53.01 | 507 | 0.20 | 0.35 | 27.7 |
| 4/23/2015 | 22:33:30 | 54.13 | 53.33 | 541 | 0.19 | 0.35 | 29.6 |
| 4/23/2015 | 22:33:31 | 54.46 | 53.66 | 541 | 0.19 | 0.35 | 29.6 |
| 4/23/2015 | 22:33:31 | 54.79 | 53.99 | 556 | 0.19 | 0.35 | 30.4 |
| 4/23/2015 | 22:33:32 | 55.12 | 54.32 | 564 | 0.19 | 0.35 | 30.8 |
| 4/23/2015 | 22:33:32 | 55.45 | 54.65 | 572 | 0.19 | 0.35 | 31.3 |
| 4/23/2015 | 22:33:33 | 55.77 | 54.97 | 576 | 0.19 | 0.36 | 31.5 |
| 4/23/2015 | 22:33:34 | 56.10 | 55.30 | 557 | 0.19 | 0.36 | 30.5 |
| 4/23/2015 | 22:33:34 | 56.24 | 55.44 | 557 | 0.19 | 0.36 | 30.5 |

## H40 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:30:00

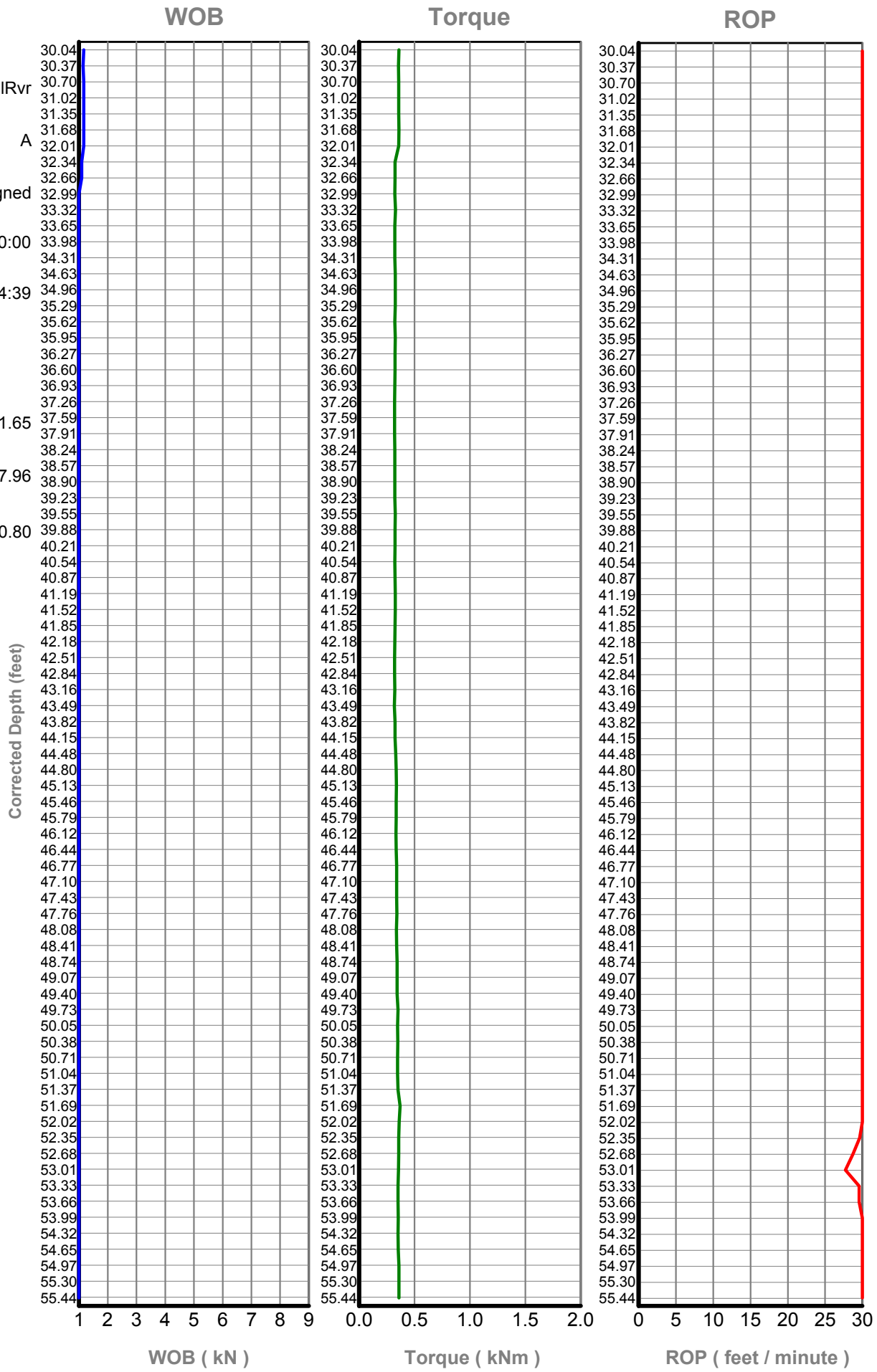
**End Date:**
4/23/2015 22:34:39

**Operator Note:**
'0.8 .9 b Auto Complete'

**Northing:**
367,441.65

**Easting:**
251,277.96

**Tide (feet):**
0.80



## Hole: H400 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 14:48:48 | 31.82 | 30.22 | 570 | 1.77 | 0.30 | 31.2 |
| 4/25/2015 14:48:49 | 32.15 | 30.55 | 567 | 1.78 | 0.30 | 31.0 |
| 4/25/2015 14:48:50 | 32.48 | 30.88 | 570 | 1.76 | 0.30 | 31.2 |
| 4/25/2015 14:48:51 | 32.81 | 31.21 | 570 | 1.78 | 0.30 | 31.2 |
| 4/25/2015 14:48:51 | 33.14 | 31.54 | 564 | 1.76 | 0.30 | 30.8 |
| 4/25/2015 14:48:52 | 33.46 | 31.86 | 563 | 1.79 | 0.30 | 30.8 |
| 4/25/2015 14:48:52 | 33.79 | 32.19 | 563 | 1.76 | 0.30 | 30.8 |
| 4/25/2015 14:48:53 | 34.12 | 32.52 | 559 | 1.77 | 0.30 | 30.6 |
| 4/25/2015 14:48:54 | 34.45 | 32.85 | 562 | 1.77 | 0.30 | 30.8 |
| 4/25/2015 14:48:54 | 34.78 | 33.18 | 569 | 1.78 | 0.30 | 31.1 |
| 4/25/2015 14:48:55 | 35.11 | 33.51 | 572 | 1.79 | 0.30 | 31.3 |
| 4/25/2015 14:48:55 | 35.43 | 33.83 | 564 | 1.77 | 0.30 | 30.8 |
| 4/25/2015 14:48:56 | 35.76 | 34.16 | 567 | 1.79 | 0.30 | 31.0 |
| 4/25/2015 14:48:57 | 36.09 | 34.49 | 570 | 1.78 | 0.30 | 31.2 |
| 4/25/2015 14:48:57 | 36.42 | 34.82 | 567 | 1.77 | 0.30 | 31.0 |
| 4/25/2015 14:48:58 | 36.75 | 35.15 | 567 | 1.77 | 0.30 | 31.0 |
| 4/25/2015 14:48:58 | 37.07 | 35.47 | 566 | 1.77 | 0.30 | 30.9 |
| 4/25/2015 14:48:59 | 37.40 | 35.80 | 563 | 1.78 | 0.30 | 30.8 |
| 4/25/2015 14:49:00 | 37.73 | 36.13 | 570 | 1.77 | 0.30 | 31.1 |
| 4/25/2015 14:49:00 | 38.06 | 36.46 | 567 | 1.80 | 0.30 | 31.0 |
| 4/25/2015 14:49:01 | 38.39 | 36.79 | 567 | 1.77 | 0.30 | 31.0 |
| 4/25/2015 14:49:02 | 38.71 | 37.11 | 564 | 1.78 | 0.30 | 30.8 |
| 4/25/2015 14:49:03 | 39.04 | 37.44 | 548 | 1.78 | 0.30 | 30.0 |
| 4/25/2015 14:49:03 | 39.37 | 37.77 | 555 | 1.78 | 0.30 | 30.3 |
| 4/25/2015 14:49:04 | 39.70 | 38.10 | 555 | 1.76 | 0.30 | 30.3 |
| 4/25/2015 14:49:04 | 40.03 | 38.43 | 555 | 1.79 | 0.31 | 30.3 |
| 4/25/2015 14:49:05 | 40.35 | 38.75 | 565 | 1.79 | 0.30 | 30.9 |
| 4/25/2015 14:49:06 | 40.68 | 39.08 | 574 | 1.76 | 0.30 | 31.4 |
| 4/25/2015 14:49:06 | 41.01 | 39.41 | 570 | 1.77 | 0.30 | 31.2 |
| 4/25/2015 14:49:07 | 41.34 | 39.74 | 574 | 1.79 | 0.30 | 31.4 |
| 4/25/2015 14:49:08 | 41.67 | 40.07 | 555 | 1.76 | 0.30 | 30.3 |
| 4/25/2015 14:49:08 | 41.99 | 40.39 | 565 | 1.77 | 0.29 | 30.9 |
| 4/25/2015 14:49:09 | 42.32 | 40.72 | 556 | 1.77 | 0.30 | 30.4 |
| 4/25/2015 14:49:09 | 42.65 | 41.05 | 549 | 1.78 | 0.30 | 30.0 |
| 4/25/2015 14:49:10 | 42.98 | 41.38 | 546 | 1.77 | 0.30 | 29.9 |
| 4/25/2015 14:49:11 | 43.31 | 41.71 | 555 | 1.75 | 0.30 | 30.3 |
| 4/25/2015 14:49:12 | 43.64 | 42.04 | 554 | 1.76 | 0.30 | 30.3 |
| 4/25/2015 14:49:12 | 43.96 | 42.36 | 557 | 1.75 | 0.30 | 30.5 |
| 4/25/2015 14:49:13 | 44.29 | 42.69 | 557 | 1.75 | 0.30 | 30.5 |
| 4/25/2015 14:49:13 | 44.62 | 43.02 | 555 | 1.79 | 0.30 | 30.4 |
| 4/25/2015 14:49:14 | 44.95 | 43.35 | 565 | 1.77 | 0.30 | 30.9 |
| 4/25/2015 14:49:15 | 45.28 | 43.68 | 559 | 1.76 | 0.30 | 30.6 |
| 4/25/2015 14:49:15 | 45.60 | 44.00 | 547 | 1.73 | 0.30 | 29.9 |
| 4/25/2015 14:49:16 | 45.93 | 44.33 | 550 | 1.79 | 0.30 | 30.1 |
| 4/25/2015 14:49:17 | 46.26 | 44.66 | 562 | 1.76 | 0.30 | 30.8 |
| 4/25/2015 14:49:17 | 46.59 | 44.99 | 544 | 1.76 | 0.30 | 29.7 |
| 4/25/2015 14:49:18 | 46.92 | 45.32 | 550 | 1.79 | 0.30 | 30.1 |
| 4/25/2015 14:49:37 | 47.24 | 45.64 | 0 | 1.77 | 0.92 | 0.0 |
| 4/25/2015 14:49:38 | 47.57 | 45.97 | 82 | 1.79 | 0.99 | 4.5 |
| 4/25/2015 14:49:49 | 47.90 | 46.30 | 6 | 1.78 | 1.13 | 0.3 |
| 4/25/2015 14:49:50 | 48.23 | 46.63 | 99 | 1.76 | 1.16 | 5.4 |
| 4/25/2015 14:49:52 | 48.56 | 46.96 | 230 | 1.80 | 1.07 | 12.6 |
| 4/25/2015 14:49:54 | 48.88 | 47.28 | 213 | 1.73 | 1.14 | 11.6 |
| 4/25/2015 14:49:55 | 49.21 | 47.61 | 222 | 1.79 | 1.17 | 12.1 |
| 4/25/2015 14:49:56 | 49.54 | 47.94 | 242 | 1.79 | 1.25 | 13.2 |
| 4/25/2015 14:50:18 | 49.87 | 48.27 | 46 | 1.74 | 1.17 | 2.5 |
| 4/25/2015 14:50:47 | 50.20 | 48.60 | 29 | 1.79 | 1.17 | 1.6 |
| 4/25/2015 14:50:48 | 50.53 | 48.93 | 165 | 1.79 | 0.94 | 9.0 |
| 4/25/2015 14:51:00 | 50.85 | 49.25 | 107 | 1.81 | 1.44 | 5.8 |
| 4/25/2015 14:51:23 | 51.18 | 49.58 | 44 | 1.77 | 1.08 | 2.4 |
| 4/25/2015 14:51:24 | 51.51 | 49.91 | 185 | 1.79 | 1.31 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 14:51:25 | 51.84 | 50.24 | 253 | 1.78 | 1.02 | 13.8 |
| 4/25/2015 | 14:51:41 | 52.17 | 50.57 | 38 | 1.81 | 1.06 | 2.1 |
| 4/25/2015 | 14:51:42 | 52.49 | 50.89 | 138 | 1.76 | 1.00 | 7.6 |
| 4/25/2015 | 14:51:43 | 52.82 | 51.22 | 297 | 1.79 | 0.96 | 16.2 |
| 4/25/2015 | 14:51:44 | 53.15 | 51.55 | 319 | 1.79 | 1.02 | 17.4 |
| 4/25/2015 | 14:52:28 | 53.48 | 51.88 | 0 | 1.79 | 1.18 | 0.0 |
| 4/25/2015 | 14:52:30 | 53.81 | 52.21 | 132 | 1.79 | 1.15 | 7.2 |
| 4/25/2015 | 14:52:32 | 54.13 | 52.53 | 202 | 1.73 | 1.37 | 11.1 |
| 4/25/2015 | 14:53:07 | 54.46 | 52.86 | 0 | 1.78 | 1.27 | 0.0 |
| 4/25/2015 | 14:53:08 | 54.79 | 53.19 | 78 | 1.76 | 1.16 | 4.3 |
| 4/25/2015 | 14:53:10 | 55.12 | 53.52 | 225 | 1.79 | 1.33 | 12.3 |
| 4/25/2015 | 14:53:12 | 55.45 | 53.85 | 244 | 1.74 | 1.20 | 13.4 |
| 4/25/2015 | 14:53:13 | 55.77 | 54.17 | 253 | 1.76 | 1.13 | 13.8 |
| 4/25/2015 | 14:53:14 | 56.10 | 54.50 | 269 | 1.76 | 0.99 | 14.7 |
| 4/25/2015 | 14:53:15 | 56.43 | 54.83 | 292 | 1.78 | 0.90 | 16.0 |
| 4/25/2015 | 14:53:15 | 56.57 | 54.97 | 292 | 1.78 | 0.90 | 16.0 |

## H400 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 14:47:06

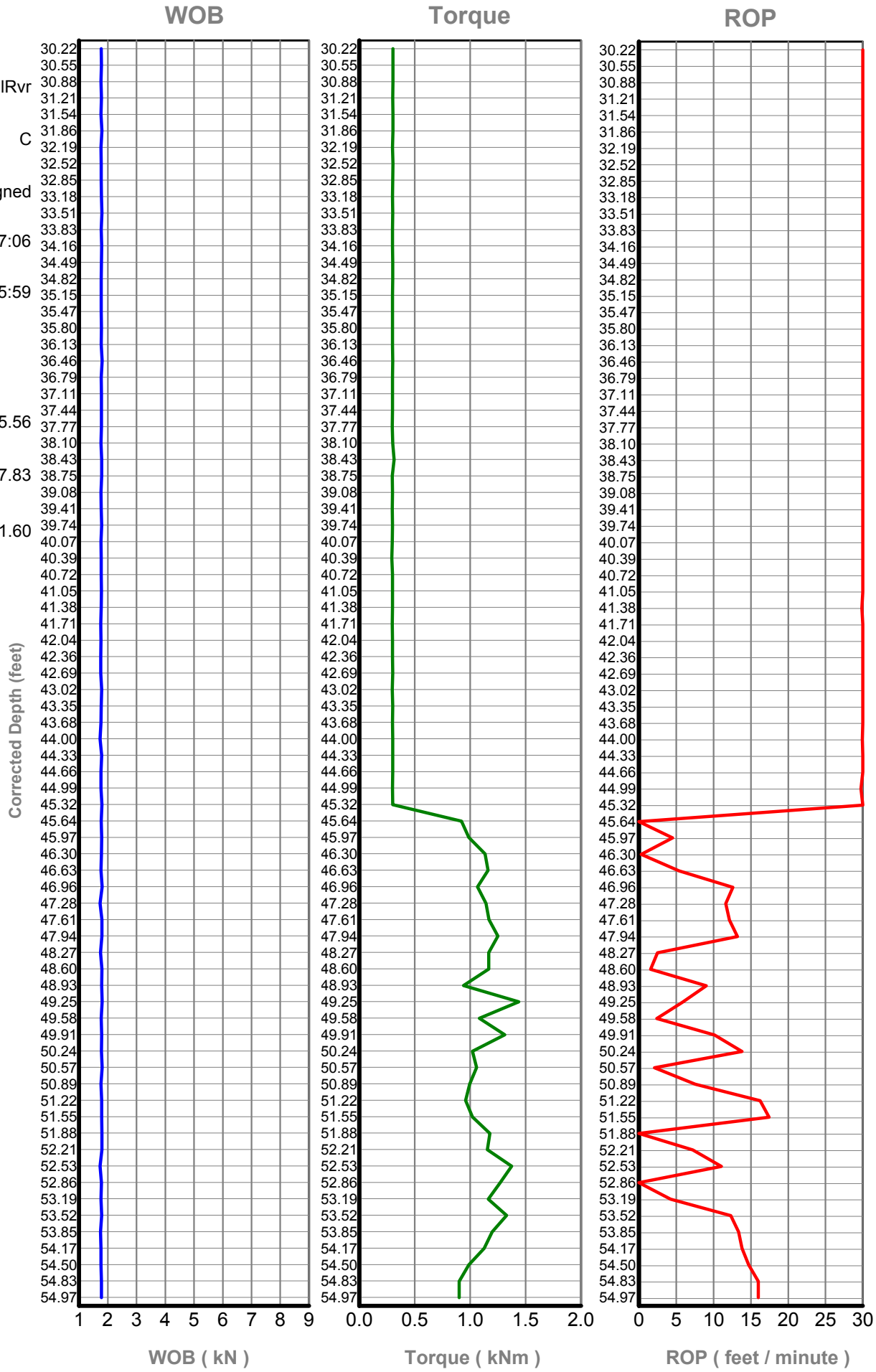
**End Date:**
4/25/2015 14:55:59

**Operator Note:**
'1.6 1.2 C Auto Complete'

**Northing:**
366,295.56

**Easting:**
250,937.83

**Tide (feet):**
1.60



## Hole: H401 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:45:56 | 34.78 | 30.28 | 833 | 1.26 | 0.33 | 45.5 |
| 4/25/2015 3:45:56 | 35.11 | 30.61 | 838 | 1.27 | 0.33 | 45.8 |
| 4/25/2015 3:45:57 | 35.43 | 30.93 | 835 | 1.32 | 0.34 | 45.7 |
| 4/25/2015 3:45:57 | 35.76 | 31.26 | 832 | 1.24 | 0.34 | 45.5 |
| 4/25/2015 3:45:58 | 36.09 | 31.59 | 832 | 1.24 | 0.34 | 45.5 |
| 4/25/2015 3:45:58 | 36.42 | 31.92 | 837 | 1.28 | 0.35 | 45.8 |
| 4/25/2015 3:45:58 | 36.75 | 32.25 | 828 | 1.26 | 0.34 | 45.3 |
| 4/25/2015 3:45:59 | 37.07 | 32.57 | 827 | 1.26 | 0.34 | 45.2 |
| 4/25/2015 3:45:59 | 37.40 | 32.90 | 810 | 1.28 | 0.33 | 44.3 |
| 4/25/2015 3:46:00 | 37.73 | 33.23 | 810 | 1.27 | 0.33 | 44.3 |
| 4/25/2015 3:46:01 | 38.06 | 33.56 | 810 | 1.27 | 0.33 | 44.3 |
| 4/25/2015 3:46:01 | 38.39 | 33.89 | 828 | 1.26 | 0.33 | 45.3 |
| 4/25/2015 3:46:01 | 38.71 | 34.21 | 820 | 1.26 | 0.33 | 44.8 |
| 4/25/2015 3:46:02 | 39.04 | 34.54 | 831 | 1.27 | 0.33 | 45.5 |
| 4/25/2015 3:46:02 | 39.37 | 34.87 | 814 | 1.27 | 0.33 | 44.5 |
| 4/25/2015 3:46:03 | 39.70 | 35.20 | 814 | 1.27 | 0.33 | 44.5 |
| 4/25/2015 3:46:03 | 40.03 | 35.53 | 814 | 1.27 | 0.33 | 44.5 |
| 4/25/2015 3:46:03 | 40.35 | 35.85 | 825 | 1.26 | 0.33 | 45.1 |
| 4/25/2015 3:46:04 | 40.68 | 36.18 | 825 | 1.26 | 0.33 | 45.1 |
| 4/25/2015 3:46:04 | 41.01 | 36.51 | 831 | 1.26 | 0.34 | 45.4 |
| 4/25/2015 3:46:05 | 41.34 | 36.84 | 819 | 1.35 | 0.37 | 44.8 |
| 4/25/2015 3:46:05 | 41.67 | 37.17 | 819 | 1.37 | 0.37 | 44.8 |
| 4/25/2015 3:46:20 | 41.99 | 37.49 | 18 | 1.20 | 0.34 | 1.0 |
| 4/25/2015 3:46:20 | 42.32 | 37.82 | 18 | 1.20 | 0.34 | 1.0 |
| 4/25/2015 3:46:20 | 42.65 | 38.15 | 156 | 0.24 | 0.34 | 8.5 |
| 4/25/2015 3:46:21 | 42.98 | 38.48 | 156 | 0.24 | 0.34 | 8.5 |
| 4/25/2015 3:46:21 | 43.31 | 38.81 | 325 | 0.24 | 0.34 | 17.8 |
| 4/25/2015 3:46:22 | 43.64 | 39.14 | 325 | 0.24 | 0.34 | 17.8 |
| 4/25/2015 3:46:22 | 43.96 | 39.46 | 484 | 0.24 | 0.33 | 26.4 |
| 4/25/2015 3:46:23 | 44.29 | 39.79 | 484 | 0.24 | 0.34 | 26.4 |
| 4/25/2015 3:46:23 | 44.62 | 40.12 | 484 | 0.24 | 0.34 | 26.4 |
| 4/25/2015 3:46:23 | 44.95 | 40.45 | 656 | 0.23 | 0.34 | 35.9 |
| 4/25/2015 3:46:24 | 45.28 | 40.78 | 801 | 0.23 | 0.34 | 43.8 |
| 4/25/2015 3:46:24 | 45.60 | 41.10 | 828 | 0.24 | 0.34 | 45.3 |
| 4/25/2015 3:46:25 | 45.93 | 41.43 | 802 | 0.24 | 0.34 | 43.9 |
| 4/25/2015 3:46:25 | 46.26 | 41.76 | 802 | 0.29 | 0.34 | 43.9 |
| 4/25/2015 3:46:26 | 46.59 | 42.09 | 802 | 0.29 | 0.34 | 43.9 |
| 4/25/2015 3:46:26 | 46.92 | 42.42 | 805 | 0.24 | 0.34 | 44.0 |
| 4/25/2015 3:46:26 | 47.24 | 42.74 | 805 | 0.24 | 0.34 | 44.0 |
| 4/25/2015 3:46:27 | 47.57 | 43.07 | 801 | 0.24 | 0.33 | 43.8 |
| 4/25/2015 3:46:27 | 47.90 | 43.40 | 791 | 0.23 | 0.34 | 43.2 |
| 4/25/2015 3:46:28 | 48.23 | 43.73 | 791 | 0.24 | 0.33 | 43.2 |
| 4/25/2015 3:46:28 | 48.56 | 44.06 | 796 | 0.23 | 0.34 | 43.5 |
| 4/25/2015 3:46:29 | 48.88 | 44.38 | 796 | 0.23 | 0.34 | 43.5 |
| 4/25/2015 3:46:29 | 49.21 | 44.71 | 787 | 0.23 | 0.34 | 43.0 |
| 4/25/2015 3:46:30 | 49.54 | 45.04 | 787 | 0.23 | 0.33 | 43.0 |
| 4/25/2015 3:46:30 | 49.87 | 45.37 | 776 | 0.23 | 0.35 | 42.4 |
| 4/25/2015 3:46:31 | 50.20 | 45.70 | 776 | 0.23 | 0.34 | 42.4 |
| 4/25/2015 3:46:31 | 50.53 | 46.03 | 798 | 0.23 | 0.33 | 43.6 |
| 4/25/2015 3:46:32 | 50.85 | 46.35 | 797 | 0.22 | 0.35 | 43.6 |
| 4/25/2015 3:46:32 | 51.18 | 46.68 | 785 | 0.20 | 0.38 | 42.9 |
| 4/25/2015 3:47:10 | 51.51 | 47.01 | 91 | 3.66 | 0.37 | 5.0 |
| 4/25/2015 3:47:11 | 51.84 | 47.34 | 211 | 4.80 | 0.41 | 11.5 |
| 4/25/2015 3:47:20 | 52.17 | 47.67 | 11 | 4.15 | 0.40 | 0.6 |
| 4/25/2015 3:47:22 | 52.49 | 47.99 | 125 | 4.64 | 0.39 | 6.9 |
| 4/25/2015 3:47:24 | 52.82 | 48.32 | 164 | 3.37 | 0.37 | 9.0 |
| 4/25/2015 3:47:25 | 53.15 | 48.65 | 209 | 5.57 | 0.40 | 11.4 |
| 4/25/2015 3:47:28 | 53.48 | 48.98 | 186 | 4.13 | 0.39 | 10.2 |
| 4/25/2015 3:47:31 | 53.81 | 49.31 | 76 | 4.36 | 0.37 | 4.2 |
| 4/25/2015 3:47:34 | 54.13 | 49.63 | 185 | 3.26 | 0.37 | 10.1 |
| 4/25/2015 3:47:35 | 54.46 | 49.96 | 231 | 4.17 | 0.38 | 12.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:47:37 | 54.79 | 50.29 | 197 | 3.92 | 0.38 | 10.8 |
| 4/25/2015 | 3:47:39 | 55.12 | 50.62 | 190 | 6.02 | 0.39 | 10.4 |
| 4/25/2015 | 3:47:41 | 55.45 | 50.95 | 153 | 4.94 | 0.41 | 8.4 |
| 4/25/2015 | 3:47:45 | 55.77 | 51.27 | 73 | 4.32 | 0.40 | 4.0 |
| 4/25/2015 | 3:47:47 | 56.10 | 51.60 | 228 | 3.09 | 0.38 | 12.5 |
| 4/25/2015 | 3:47:49 | 56.43 | 51.93 | 166 | 4.82 | 0.40 | 9.1 |
| 4/25/2015 | 3:47:56 | 56.76 | 52.26 | 16 | 5.44 | 0.38 | 0.9 |
| 4/25/2015 | 3:47:58 | 57.09 | 52.59 | 160 | 4.06 | 0.39 | 8.8 |
| 4/25/2015 | 3:48:13 | 57.41 | 52.91 | 51 | 5.27 | 0.40 | 2.8 |
| 4/25/2015 | 3:48:21 | 57.74 | 53.24 | 49 | 3.57 | 0.38 | 2.7 |
| 4/25/2015 | 3:48:22 | 58.07 | 53.57 | 156 | 4.45 | 0.38 | 8.5 |
| 4/25/2015 | 3:48:24 | 58.40 | 53.90 | 237 | 3.70 | 0.38 | 13.0 |
| 4/25/2015 | 3:48:26 | 58.73 | 54.23 | 269 | 3.04 | 0.37 | 14.7 |
| 4/25/2015 | 3:48:26 | 59.06 | 54.56 | 300 | 2.91 | 0.37 | 16.4 |
| 4/25/2015 | 3:48:27 | 59.38 | 54.88 | 388 | 2.83 | 0.37 | 21.2 |
| 4/25/2015 | 3:48:27 | 59.51 | 55.01 | 388 | 2.83 | 0.37 | 21.2 |

## H401 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:42:32

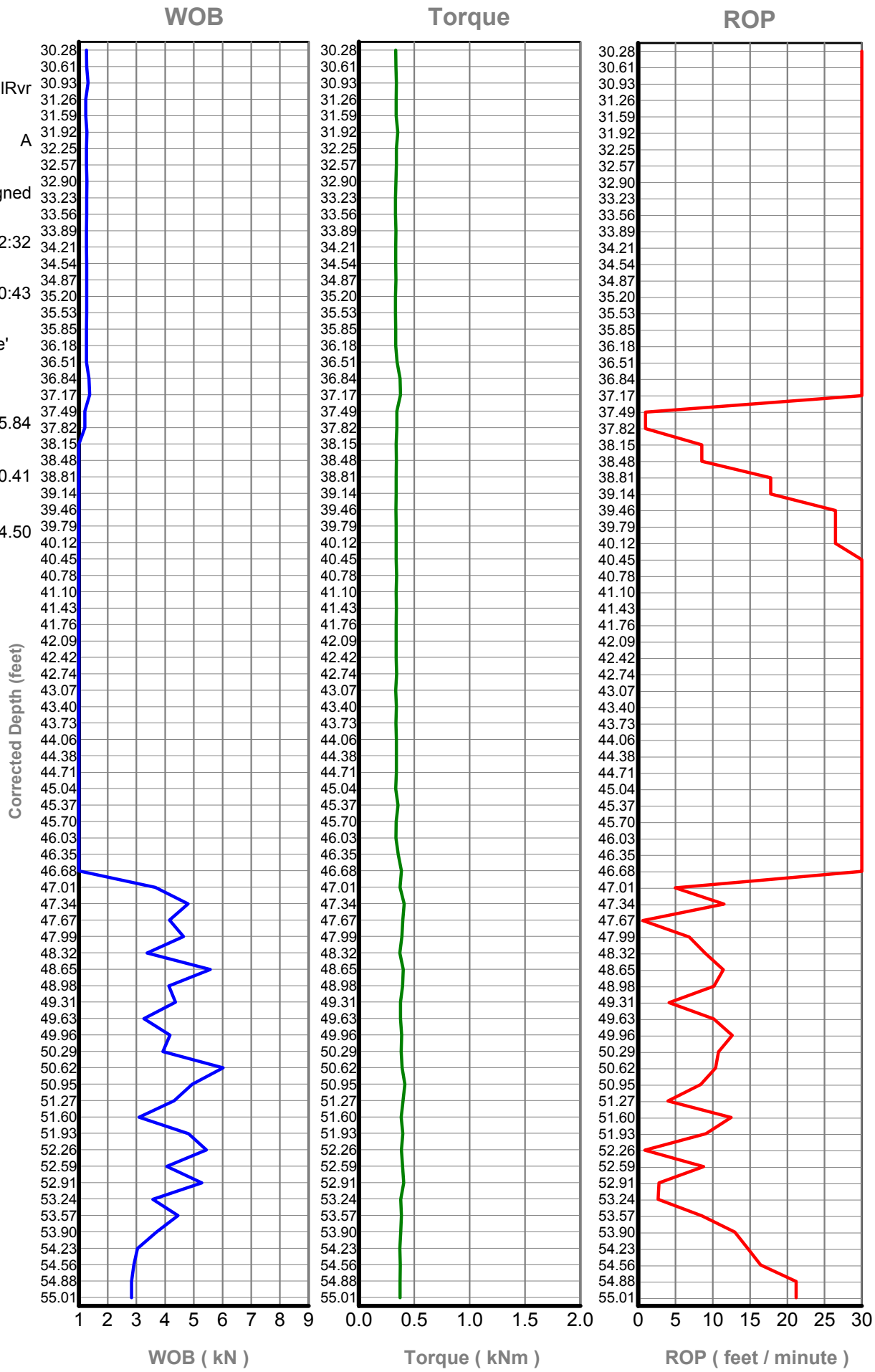
**End Date:**
4/25/2015 3:50:43

**Operator Note:**
'4.5 4.2 b Auto Complete'

**Northing:**
366,345.84

**Easting:**
251,010.41

**Tide (feet):**
4.50



## Hole: H402 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:56:56 | 34.78 | 30.08 | 561 | 1.98 | 0.17 | 30.7 |
| 4/25/2015 3:56:57 | 35.11 | 30.41 | 558 | 1.96 | 0.17 | 30.5 |
| 4/25/2015 3:56:57 | 35.43 | 30.73 | 561 | 1.99 | 0.17 | 30.7 |
| 4/25/2015 3:56:58 | 35.76 | 31.06 | 561 | 1.98 | 0.17 | 30.7 |
| 4/25/2015 3:56:59 | 36.09 | 31.39 | 558 | 1.99 | 0.17 | 30.5 |
| 4/25/2015 3:57:00 | 36.42 | 31.72 | 561 | 1.98 | 0.17 | 30.7 |
| 4/25/2015 3:57:00 | 36.75 | 32.05 | 561 | 1.99 | 0.17 | 30.7 |
| 4/25/2015 3:57:01 | 37.07 | 32.37 | 561 | 1.99 | 0.17 | 30.7 |
| 4/25/2015 3:57:02 | 37.40 | 32.70 | 561 | 2.01 | 0.15 | 30.7 |
| 4/25/2015 3:57:02 | 37.73 | 33.03 | 564 | 1.98 | 0.17 | 30.8 |
| 4/25/2015 3:57:03 | 38.06 | 33.36 | 561 | 1.99 | 0.17 | 30.7 |
| 4/25/2015 3:57:03 | 38.39 | 33.69 | 561 | 1.97 | 0.17 | 30.7 |
| 4/25/2015 3:57:04 | 38.71 | 34.01 | 564 | 1.98 | 0.17 | 30.8 |
| 4/25/2015 3:57:05 | 39.04 | 34.34 | 558 | 1.99 | 0.18 | 30.5 |
| 4/25/2015 3:57:05 | 39.37 | 34.67 | 561 | 2.02 | 0.17 | 30.7 |
| 4/25/2015 3:57:06 | 39.70 | 35.00 | 558 | 2.00 | 0.17 | 30.5 |
| 4/25/2015 3:57:06 | 40.03 | 35.33 | 558 | 1.99 | 0.17 | 30.5 |
| 4/25/2015 3:57:07 | 40.35 | 35.65 | 561 | 1.97 | 0.19 | 30.7 |
| 4/25/2015 3:57:08 | 40.68 | 35.98 | 561 | 2.00 | 0.17 | 30.7 |
| 4/25/2015 3:57:08 | 41.01 | 36.31 | 564 | 2.04 | 0.17 | 30.8 |
| 4/25/2015 3:57:09 | 41.34 | 36.64 | 564 | 2.00 | 0.17 | 30.8 |
| 4/25/2015 3:57:10 | 41.67 | 36.97 | 561 | 2.00 | 0.17 | 30.7 |
| 4/25/2015 3:57:11 | 41.99 | 37.29 | 561 | 1.98 | 0.17 | 30.7 |
| 4/25/2015 3:57:11 | 42.32 | 37.62 | 558 | 2.00 | 0.17 | 30.5 |
| 4/25/2015 3:57:12 | 42.65 | 37.95 | 558 | 1.99 | 0.17 | 30.5 |
| 4/25/2015 3:57:12 | 42.98 | 38.28 | 557 | 1.98 | 0.17 | 30.5 |
| 4/25/2015 3:57:13 | 43.31 | 38.61 | 558 | 1.95 | 0.17 | 30.5 |
| 4/25/2015 3:57:14 | 43.64 | 38.94 | 558 | 1.98 | 0.17 | 30.5 |
| 4/25/2015 3:57:14 | 43.96 | 39.26 | 555 | 1.96 | 0.17 | 30.4 |
| 4/25/2015 3:57:15 | 44.29 | 39.59 | 555 | 2.00 | 0.17 | 30.4 |
| 4/25/2015 3:57:15 | 44.62 | 39.92 | 555 | 1.98 | 0.17 | 30.4 |
| 4/25/2015 3:57:16 | 44.95 | 40.25 | 555 | 1.98 | 0.17 | 30.3 |
| 4/25/2015 3:57:17 | 45.28 | 40.58 | 561 | 1.99 | 0.17 | 30.7 |
| 4/25/2015 3:57:17 | 45.60 | 40.90 | 552 | 1.98 | 0.17 | 30.2 |
| 4/25/2015 3:57:18 | 45.93 | 41.23 | 552 | 1.97 | 0.17 | 30.2 |
| 4/25/2015 3:57:19 | 46.26 | 41.56 | 552 | 2.00 | 0.17 | 30.2 |
| 4/25/2015 3:57:20 | 46.59 | 41.89 | 556 | 2.00 | 0.17 | 30.4 |
| 4/25/2015 3:57:20 | 46.92 | 42.22 | 549 | 1.97 | 0.17 | 30.0 |
| 4/25/2015 3:57:21 | 47.24 | 42.54 | 558 | 1.98 | 0.17 | 30.5 |
| 4/25/2015 3:57:22 | 47.57 | 42.87 | 558 | 2.00 | 0.17 | 30.5 |
| 4/25/2015 3:57:22 | 47.90 | 43.20 | 558 | 2.02 | 0.17 | 30.5 |
| 4/25/2015 3:57:23 | 48.23 | 43.53 | 558 | 1.98 | 0.17 | 30.5 |
| 4/25/2015 3:57:23 | 48.56 | 43.86 | 558 | 1.99 | 0.17 | 30.5 |
| 4/25/2015 3:57:24 | 48.88 | 44.18 | 558 | 1.96 | 0.17 | 30.5 |
| 4/25/2015 3:57:25 | 49.21 | 44.51 | 555 | 2.00 | 0.17 | 30.4 |
| 4/25/2015 3:57:25 | 49.54 | 44.84 | 558 | 1.98 | 0.17 | 30.5 |
| 4/25/2015 3:57:26 | 49.87 | 45.17 | 555 | 2.01 | 0.17 | 30.4 |
| 4/25/2015 3:57:26 | 50.20 | 45.50 | 552 | 1.99 | 0.17 | 30.2 |
| 4/25/2015 3:57:27 | 50.53 | 45.83 | 555 | 1.98 | 0.17 | 30.3 |
| 4/25/2015 3:58:02 | 50.85 | 46.15 | 0 | 2.00 | 1.12 | 0.0 |
| 4/25/2015 3:58:04 | 51.18 | 46.48 | 99 | 2.00 | 1.18 | 5.4 |
| 4/25/2015 3:58:06 | 51.51 | 46.81 | 210 | 1.98 | 1.19 | 11.5 |
| 4/25/2015 3:58:07 | 51.84 | 47.14 | 256 | 1.98 | 1.33 | 14.0 |
| 4/25/2015 3:58:30 | 52.17 | 47.47 | 73 | 1.98 | 1.48 | 4.0 |
| 4/25/2015 3:58:31 | 52.49 | 47.79 | 195 | 1.99 | 1.18 | 10.7 |
| 4/25/2015 3:58:57 | 52.82 | 48.12 | 69 | 1.95 | 1.10 | 3.8 |
| 4/25/2015 3:58:58 | 53.15 | 48.45 | 130 | 1.98 | 1.08 | 7.1 |
| 4/25/2015 3:58:59 | 53.48 | 48.78 | 215 | 1.97 | 1.06 | 11.8 |
| 4/25/2015 3:59:20 | 53.81 | 49.11 | 60 | 2.27 | 1.02 | 3.3 |
| 4/25/2015 3:59:32 | 54.13 | 49.43 | 24 | 1.98 | 0.98 | 1.3 |
| 4/25/2015 3:59:33 | 54.46 | 49.76 | 229 | 1.99 | 1.10 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:59:36 | 54.79 | 50.09 | 95 | 1.98 | 1.12 | 5.2 |
| 4/25/2015 | 3:59:38 | 55.12 | 50.42 | 113 | 1.98 | 1.32 | 6.2 |
| 4/25/2015 | 3:59:40 | 55.45 | 50.75 | 192 | 1.98 | 1.50 | 10.5 |
| 4/25/2015 | 3:59:49 | 55.77 | 51.07 | 0 | 1.97 | 1.12 | 0.0 |
| 4/25/2015 | 3:59:51 | 56.10 | 51.40 | 115 | 1.97 | 1.24 | 6.3 |
| 4/25/2015 | 3:59:52 | 56.43 | 51.73 | 217 | 1.98 | 1.28 | 11.9 |
| 4/25/2015 | 3:59:54 | 56.76 | 52.06 | 220 | 1.99 | 1.30 | 12.0 |
| 4/25/2015 | 3:59:56 | 57.09 | 52.39 | 204 | 1.95 | 1.21 | 11.2 |
| 4/25/2015 | 3:59:58 | 57.41 | 52.71 | 211 | 1.97 | 1.20 | 11.5 |
| 4/25/2015 | 3:59:59 | 57.74 | 53.04 | 208 | 1.98 | 1.19 | 11.4 |
| 4/25/2015 | 4:00:01 | 58.07 | 53.37 | 211 | 1.96 | 1.15 | 11.5 |
| 4/25/2015 | 4:00:03 | 58.40 | 53.70 | 220 | 2.00 | 1.13 | 12.0 |
| 4/25/2015 | 4:00:04 | 58.73 | 54.03 | 226 | 1.98 | 1.17 | 12.3 |
| 4/25/2015 | 4:00:05 | 59.06 | 54.36 | 237 | 1.99 | 1.23 | 13.0 |
| 4/25/2015 | 4:00:08 | 59.38 | 54.68 | 215 | 2.00 | 1.21 | 11.7 |
| 4/25/2015 | 4:00:08 | 59.48 | 54.78 | 200 | 1.98 | 1.26 | 10.9 |

## H402 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:54:55

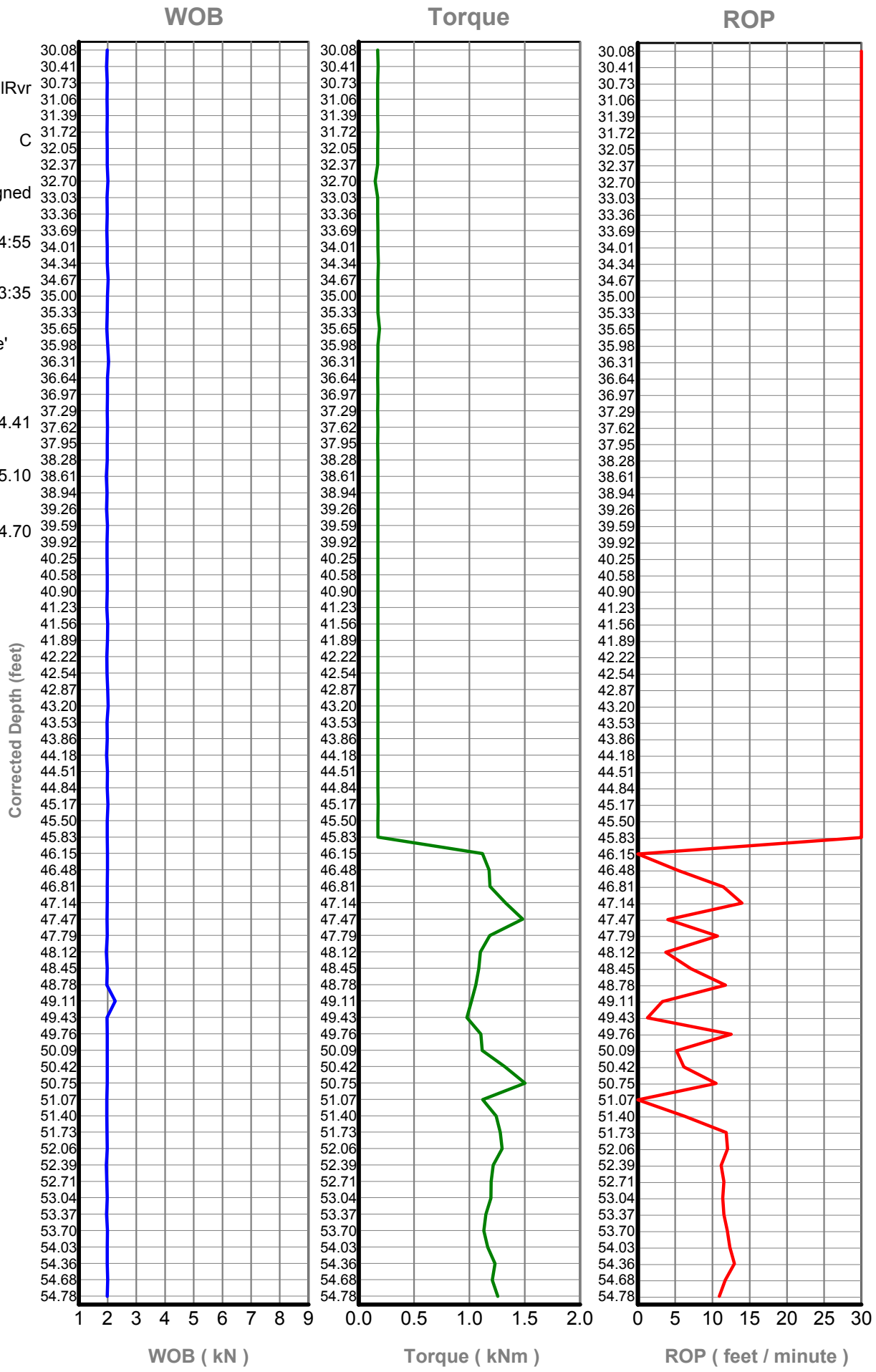
**End Date:**
4/25/2015 4:03:35

**Operator Note:**
'4.7 4.5 c Auto Complete'

**Northing:**
366,384.41

**Easting:**
251,055.10

**Tide (feet):**
4.70



## Hole: H403 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:47:46 | 34.78 | 30.28 | 572 | 1.99 | 0.17 | 31.3 |
| 4/25/2015 3:47:47 | 35.11 | 30.61 | 569 | 2.00 | 0.18 | 31.1 |
| 4/25/2015 3:47:48 | 35.43 | 30.93 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:47:49 | 35.76 | 31.26 | 572 | 2.00 | 0.17 | 31.3 |
| 4/25/2015 3:47:49 | 36.09 | 31.59 | 575 | 1.97 | 0.17 | 31.5 |
| 4/25/2015 3:47:50 | 36.42 | 31.92 | 579 | 2.00 | 0.17 | 31.6 |
| 4/25/2015 3:47:50 | 36.75 | 32.25 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:47:51 | 37.07 | 32.57 | 573 | 1.96 | 0.17 | 31.3 |
| 4/25/2015 3:47:52 | 37.40 | 32.90 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:47:52 | 37.73 | 33.23 | 566 | 1.99 | 0.17 | 30.9 |
| 4/25/2015 3:47:53 | 38.06 | 33.56 | 569 | 2.00 | 0.17 | 31.1 |
| 4/25/2015 3:47:53 | 38.39 | 33.89 | 569 | 1.98 | 0.17 | 31.1 |
| 4/25/2015 3:47:54 | 38.71 | 34.21 | 569 | 1.98 | 0.17 | 31.1 |
| 4/25/2015 3:47:55 | 39.04 | 34.54 | 576 | 1.96 | 0.17 | 31.5 |
| 4/25/2015 3:47:55 | 39.37 | 34.87 | 575 | 2.24 | 0.17 | 31.5 |
| 4/25/2015 3:47:56 | 39.70 | 35.20 | 575 | 1.98 | 0.17 | 31.5 |
| 4/25/2015 3:47:56 | 40.03 | 35.53 | 576 | 1.98 | 0.17 | 31.5 |
| 4/25/2015 3:47:57 | 40.35 | 35.85 | 569 | 1.98 | 0.17 | 31.1 |
| 4/25/2015 3:47:58 | 40.68 | 36.18 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:47:59 | 41.01 | 36.51 | 572 | 1.96 | 0.17 | 31.3 |
| 4/25/2015 3:47:59 | 41.34 | 36.84 | 572 | 1.97 | 0.17 | 31.3 |
| 4/25/2015 3:48:00 | 41.67 | 37.17 | 572 | 2.00 | 0.17 | 31.3 |
| 4/25/2015 3:48:00 | 41.99 | 37.49 | 572 | 1.96 | 0.17 | 31.3 |
| 4/25/2015 3:48:01 | 42.32 | 37.82 | 569 | 2.00 | 0.17 | 31.1 |
| 4/25/2015 3:48:02 | 42.65 | 38.15 | 569 | 1.98 | 0.17 | 31.1 |
| 4/25/2015 3:48:02 | 42.98 | 38.48 | 575 | 1.98 | 0.17 | 31.5 |
| 4/25/2015 3:48:03 | 43.31 | 38.81 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:48:03 | 43.64 | 39.14 | 572 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:48:04 | 43.96 | 39.46 | 572 | 1.96 | 0.17 | 31.3 |
| 4/25/2015 3:48:05 | 44.29 | 39.79 | 569 | 1.95 | 0.17 | 31.1 |
| 4/25/2015 3:48:05 | 44.62 | 40.12 | 569 | 1.98 | 0.17 | 31.1 |
| 4/25/2015 3:48:06 | 44.95 | 40.45 | 563 | 1.97 | 0.17 | 30.8 |
| 4/25/2015 3:48:06 | 45.28 | 40.78 | 569 | 1.97 | 0.17 | 31.1 |
| 4/25/2015 3:48:07 | 45.60 | 41.10 | 558 | 1.97 | 0.17 | 30.5 |
| 4/25/2015 3:48:08 | 45.93 | 41.43 | 561 | 1.96 | 0.17 | 30.7 |
| 4/25/2015 3:48:09 | 46.26 | 41.76 | 567 | 1.97 | 0.17 | 31.0 |
| 4/25/2015 3:48:09 | 46.59 | 42.09 | 567 | 1.95 | 0.17 | 31.0 |
| 4/25/2015 3:48:10 | 46.92 | 42.42 | 567 | 1.98 | 0.17 | 31.0 |
| 4/25/2015 3:48:11 | 47.24 | 42.74 | 570 | 2.00 | 0.17 | 31.2 |
| 4/25/2015 3:48:11 | 47.57 | 43.07 | 561 | 1.94 | 0.17 | 30.7 |
| 4/25/2015 3:48:12 | 47.90 | 43.40 | 568 | 1.98 | 0.17 | 31.0 |
| 4/25/2015 3:48:12 | 48.23 | 43.73 | 568 | 1.98 | 0.17 | 31.0 |
| 4/25/2015 3:48:13 | 48.56 | 44.06 | 567 | 1.95 | 0.17 | 31.0 |
| 4/25/2015 3:48:14 | 48.88 | 44.38 | 574 | 1.98 | 0.17 | 31.4 |
| 4/25/2015 3:48:14 | 49.21 | 44.71 | 564 | 1.97 | 0.17 | 30.8 |
| 4/25/2015 3:48:15 | 49.54 | 45.04 | 570 | 1.98 | 0.17 | 31.2 |
| 4/25/2015 3:48:15 | 49.87 | 45.37 | 567 | 1.98 | 0.17 | 31.0 |
| 4/25/2015 3:48:16 | 50.20 | 45.70 | 564 | 1.96 | 0.17 | 30.8 |
| 4/25/2015 3:48:17 | 50.53 | 46.03 | 573 | 1.98 | 0.17 | 31.3 |
| 4/25/2015 3:48:37 | 50.85 | 46.35 | 29 | 1.99 | 1.29 | 1.6 |
| 4/25/2015 3:48:48 | 51.18 | 46.68 | 32 | 1.98 | 1.14 | 1.8 |
| 4/25/2015 3:48:54 | 51.51 | 47.01 | 0 | 1.98 | 1.14 | 0.0 |
| 4/25/2015 3:48:56 | 51.84 | 47.34 | 132 | 2.00 | 1.25 | 7.2 |
| 4/25/2015 3:49:10 | 52.17 | 47.67 | 79 | 1.97 | 1.15 | 4.3 |
| 4/25/2015 3:49:11 | 52.49 | 47.99 | 211 | 1.95 | 1.28 | 11.5 |
| 4/25/2015 3:49:41 | 52.82 | 48.32 | 6 | 1.96 | 1.18 | 0.3 |
| 4/25/2015 3:49:42 | 53.15 | 48.65 | 98 | 1.98 | 1.38 | 5.4 |
| 4/25/2015 3:49:44 | 53.48 | 48.98 | 263 | 1.98 | 1.09 | 14.4 |
| 4/25/2015 3:49:45 | 53.81 | 49.31 | 315 | 2.05 | 1.06 | 17.2 |
| 4/25/2015 3:50:14 | 54.13 | 49.63 | 79 | 1.98 | 1.06 | 4.3 |
| 4/25/2015 3:50:15 | 54.46 | 49.96 | 237 | 1.93 | 1.04 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:50:25 | 54.79 | 50.29 | 97 | 1.98 | 1.24 | 5.3 |
| 4/25/2015 | 3:50:26 | 55.12 | 50.62 | 137 | 1.94 | 1.38 | 7.5 |
| 4/25/2015 | 3:50:28 | 55.45 | 50.95 | 231 | 1.99 | 1.20 | 12.6 |
| 4/25/2015 | 3:50:29 | 55.77 | 51.27 | 239 | 1.99 | 1.12 | 13.1 |
| 4/25/2015 | 3:50:30 | 56.10 | 51.60 | 251 | 2.00 | 1.15 | 13.7 |
| 4/25/2015 | 3:50:32 | 56.43 | 51.93 | 261 | 2.01 | 1.20 | 14.2 |
| 4/25/2015 | 3:50:33 | 56.76 | 52.26 | 261 | 1.98 | 1.27 | 14.3 |
| 4/25/2015 | 3:50:48 | 57.09 | 52.59 | 35 | 1.99 | 1.19 | 1.9 |
| 4/25/2015 | 3:50:49 | 57.41 | 52.91 | 146 | 1.98 | 1.17 | 8.0 |
| 4/25/2015 | 3:50:51 | 57.74 | 53.24 | 262 | 1.96 | 1.16 | 14.3 |
| 4/25/2015 | 3:50:52 | 58.07 | 53.57 | 260 | 2.00 | 1.13 | 14.2 |
| 4/25/2015 | 3:50:53 | 58.40 | 53.90 | 280 | 1.98 | 1.11 | 15.3 |
| 4/25/2015 | 3:50:55 | 58.73 | 54.23 | 295 | 1.99 | 1.12 | 16.1 |
| 4/25/2015 | 3:50:56 | 59.06 | 54.56 | 286 | 1.95 | 1.09 | 15.7 |
| 4/25/2015 | 3:50:57 | 59.38 | 54.88 | 272 | 2.00 | 1.11 | 14.9 |
| 4/25/2015 | 3:50:57 | 59.51 | 55.01 | 272 | 2.00 | 1.11 | 14.9 |

## H403 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:44:24

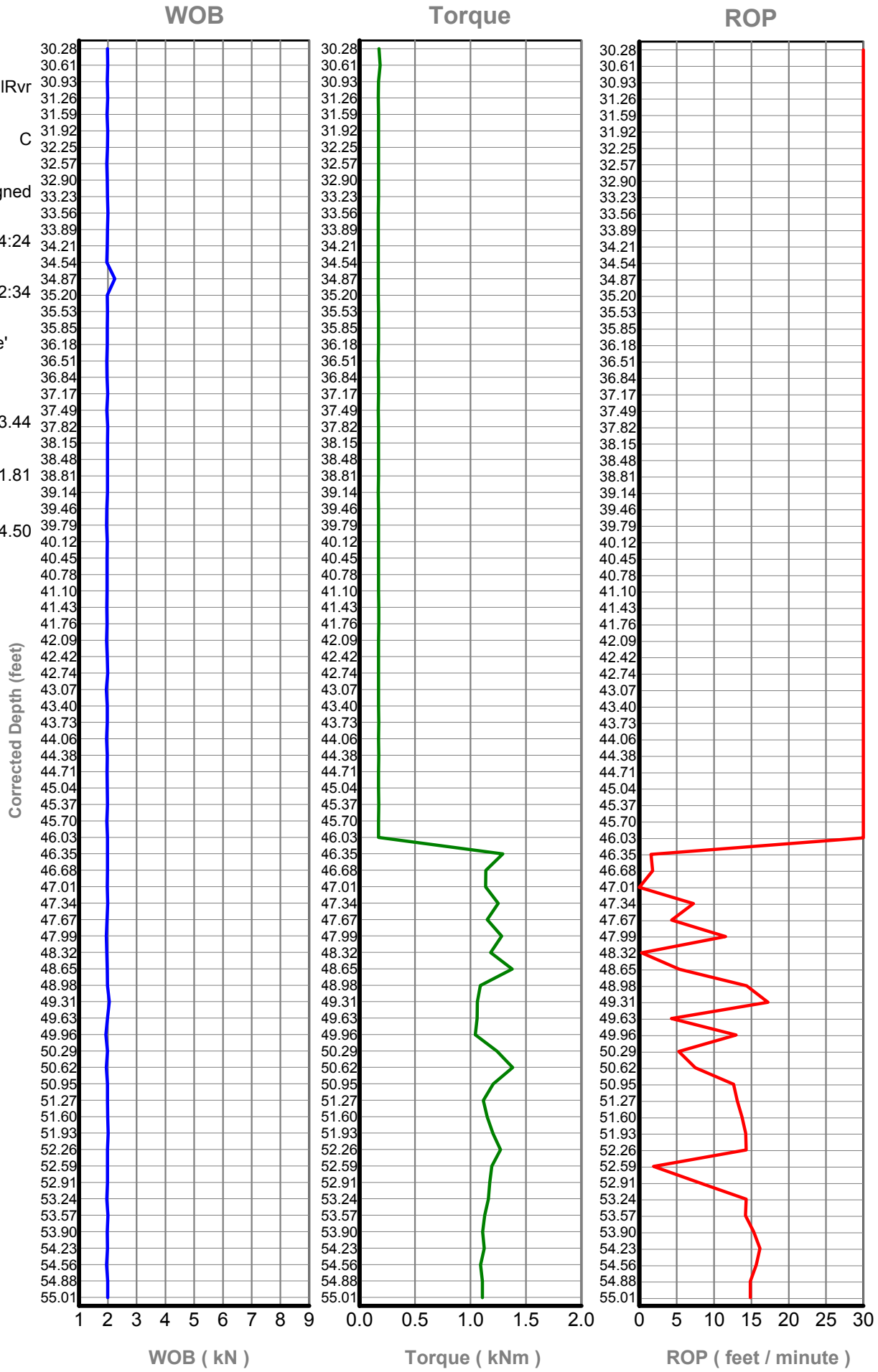
**End Date:**
4/25/2015 3:52:34

**Operator Note:**
'4.5 4.3 c Auto Complete'

**Northing:**
366,433.44

**Easting:**
251,111.81

**Tide (feet):**
4.50



## Hole: H404 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 1:38:14 | 31.17 | 30.07 | 860 | 0.85 | 0.32 | 47.0 |
| 4/25/2015 1:38:14 | 31.50 | 30.40 | 849 | 0.85 | 0.32 | 46.4 |
| 4/25/2015 1:38:15 | 31.82 | 30.72 | 840 | 0.87 | 0.32 | 45.9 |
| 4/25/2015 1:38:15 | 32.15 | 31.05 | 827 | 0.84 | 0.32 | 45.2 |
| 4/25/2015 1:38:16 | 32.48 | 31.38 | 827 | 0.84 | 0.32 | 45.2 |
| 4/25/2015 1:38:16 | 32.81 | 31.71 | 822 | 0.84 | 0.32 | 44.9 |
| 4/25/2015 1:38:16 | 33.14 | 32.04 | 830 | 0.85 | 0.32 | 45.4 |
| 4/25/2015 1:38:17 | 33.46 | 32.36 | 835 | 0.84 | 0.32 | 45.7 |
| 4/25/2015 1:38:17 | 33.79 | 32.69 | 838 | 0.84 | 0.32 | 45.8 |
| 4/25/2015 1:38:18 | 34.12 | 33.02 | 838 | 0.84 | 0.32 | 45.8 |
| 4/25/2015 1:38:18 | 34.45 | 33.35 | 841 | 0.84 | 0.32 | 46.0 |
| 4/25/2015 1:38:18 | 34.78 | 33.68 | 841 | 0.83 | 0.33 | 46.0 |
| 4/25/2015 1:38:19 | 35.11 | 34.01 | 841 | 0.83 | 0.32 | 46.0 |
| 4/25/2015 1:38:20 | 35.43 | 34.33 | 838 | 0.84 | 0.32 | 45.8 |
| 4/25/2015 1:38:20 | 35.76 | 34.66 | 838 | 0.84 | 0.32 | 45.8 |
| 4/25/2015 1:38:20 | 36.09 | 34.99 | 836 | 0.84 | 0.33 | 45.7 |
| 4/25/2015 1:38:21 | 36.42 | 35.32 | 844 | 0.83 | 0.32 | 46.2 |
| 4/25/2015 1:38:21 | 36.75 | 35.65 | 835 | 0.83 | 0.32 | 45.7 |
| 4/25/2015 1:38:22 | 37.07 | 35.97 | 835 | 0.83 | 0.32 | 45.7 |
| 4/25/2015 1:38:22 | 37.40 | 36.30 | 833 | 0.84 | 0.32 | 45.5 |
| 4/25/2015 1:38:23 | 37.73 | 36.63 | 833 | 0.84 | 0.32 | 45.5 |
| 4/25/2015 1:38:23 | 38.06 | 36.96 | 835 | 0.83 | 0.32 | 45.7 |
| 4/25/2015 1:38:23 | 38.39 | 37.29 | 835 | 0.85 | 0.32 | 45.7 |
| 4/25/2015 1:38:24 | 38.71 | 37.61 | 844 | 0.84 | 0.32 | 46.2 |
| 4/25/2015 1:38:24 | 39.04 | 37.94 | 842 | 0.83 | 0.32 | 46.0 |
| 4/25/2015 1:38:25 | 39.37 | 38.27 | 842 | 0.83 | 0.32 | 46.0 |
| 4/25/2015 1:38:25 | 39.70 | 38.60 | 853 | 0.84 | 0.32 | 46.6 |
| 4/25/2015 1:38:25 | 40.03 | 38.93 | 853 | 0.86 | 0.32 | 46.6 |
| 4/25/2015 1:38:26 | 40.35 | 39.25 | 856 | 0.82 | 0.32 | 46.8 |
| 4/25/2015 1:38:26 | 40.68 | 39.58 | 856 | 0.84 | 0.32 | 46.8 |
| 4/25/2015 1:38:27 | 41.01 | 39.91 | 856 | 0.84 | 0.32 | 46.8 |
| 4/25/2015 1:38:27 | 41.34 | 40.24 | 859 | 0.83 | 0.33 | 46.9 |
| 4/25/2015 1:38:27 | 41.67 | 40.57 | 850 | 0.84 | 0.32 | 46.5 |
| 4/25/2015 1:38:28 | 41.99 | 40.89 | 850 | 0.83 | 0.32 | 46.5 |
| 4/25/2015 1:38:29 | 42.32 | 41.22 | 833 | 0.83 | 0.32 | 45.6 |
| 4/25/2015 1:38:29 | 42.65 | 41.55 | 833 | 0.83 | 0.32 | 45.6 |
| 4/25/2015 1:38:29 | 42.98 | 41.88 | 834 | 0.83 | 0.32 | 45.6 |
| 4/25/2015 1:38:30 | 43.31 | 42.21 | 834 | 0.83 | 0.32 | 45.6 |
| 4/25/2015 1:38:30 | 43.64 | 42.54 | 847 | 0.83 | 0.32 | 46.3 |
| 4/25/2015 1:38:31 | 43.96 | 42.86 | 855 | 0.83 | 0.32 | 46.8 |
| 4/25/2015 1:38:31 | 44.29 | 43.19 | 855 | 0.83 | 0.32 | 46.8 |
| 4/25/2015 1:38:31 | 44.62 | 43.52 | 858 | 0.84 | 0.32 | 46.9 |
| 4/25/2015 1:38:32 | 44.95 | 43.85 | 877 | 0.82 | 0.32 | 48.0 |
| 4/25/2015 1:38:32 | 45.28 | 44.18 | 876 | 0.84 | 0.32 | 47.9 |
| 4/25/2015 1:38:33 | 45.60 | 44.50 | 862 | 0.86 | 0.34 | 47.1 |
| 4/25/2015 1:38:33 | 45.93 | 44.83 | 832 | 0.88 | 0.38 | 45.5 |
| 4/25/2015 1:39:08 | 46.26 | 45.16 | 62 | 4.09 | 0.37 | 3.4 |
| 4/25/2015 1:39:10 | 46.59 | 45.49 | 219 | 3.73 | 0.37 | 12.0 |
| 4/25/2015 1:39:12 | 46.92 | 45.82 | 159 | 4.98 | 0.37 | 8.7 |
| 4/25/2015 1:39:20 | 47.24 | 46.14 | 12 | 5.95 | 0.37 | 0.6 |
| 4/25/2015 1:39:21 | 47.57 | 46.47 | 139 | 3.83 | 0.38 | 7.6 |
| 4/25/2015 1:39:24 | 47.90 | 46.80 | 172 | 3.79 | 0.37 | 9.4 |
| 4/25/2015 1:39:25 | 48.23 | 47.13 | 219 | 4.40 | 0.36 | 12.0 |
| 4/25/2015 1:39:25 | 48.56 | 47.46 | 288 | 2.95 | 0.36 | 15.7 |
| 4/25/2015 1:39:26 | 48.88 | 47.78 | 400 | 3.84 | 0.36 | 21.9 |
| 4/25/2015 1:39:27 | 49.21 | 48.11 | 428 | 3.11 | 0.36 | 23.4 |
| 4/25/2015 1:39:28 | 49.54 | 48.44 | 435 | 3.63 | 0.36 | 23.8 |
| 4/25/2015 1:39:37 | 49.87 | 48.77 | 0 | 4.85 | 0.37 | 0.0 |
| 4/25/2015 1:39:39 | 50.20 | 49.10 | 81 | 4.24 | 0.36 | 4.4 |
| 4/25/2015 1:39:43 | 50.53 | 49.43 | 28 | 3.99 | 0.37 | 1.5 |
| 4/25/2015 1:39:46 | 50.85 | 49.75 | 78 | 5.17 | 0.38 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 1:39:50 | 51.18 | 50.08 | 87 | 6.75 | 0.32 | 4.8 |
| 4/25/2015 | 1:39:54 | 51.51 | 50.41 | 82 | 3.62 | 0.37 | 4.5 |
| 4/25/2015 | 1:39:55 | 51.84 | 50.74 | 180 | 3.56 | 0.36 | 9.8 |
| 4/25/2015 | 1:39:55 | 52.17 | 51.07 | 265 | 4.01 | 0.36 | 14.5 |
| 4/25/2015 | 1:39:57 | 52.49 | 51.39 | 347 | 3.07 | 0.35 | 18.9 |
| 4/25/2015 | 1:39:57 | 52.82 | 51.72 | 369 | 3.00 | 0.36 | 20.2 |
| 4/25/2015 | 1:39:58 | 53.15 | 52.05 | 389 | 2.98 | 0.36 | 21.3 |
| 4/25/2015 | 1:40:49 | 53.48 | 52.38 | 17 | 2.87 | 0.36 | 0.9 |
| 4/25/2015 | 1:41:44 | 53.81 | 52.71 | 0 | 5.04 | 0.38 | 0.0 |
| 4/25/2015 | 1:41:52 | 54.13 | 53.03 | 50 | 5.69 | 0.40 | 2.8 |
| 4/25/2015 | 1:41:59 | 54.46 | 53.36 | 51 | 5.98 | 0.40 | 2.8 |
| 4/25/2015 | 1:42:07 | 54.79 | 53.69 | 46 | 4.53 | 0.37 | 2.5 |
| 4/25/2015 | 1:42:15 | 55.12 | 54.02 | 46 | 4.69 | 0.40 | 2.5 |
| 4/25/2015 | 1:42:20 | 55.33 | 54.23 | 37 | 4.68 | 0.39 | 2.0 |

## H404 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 1:36:22

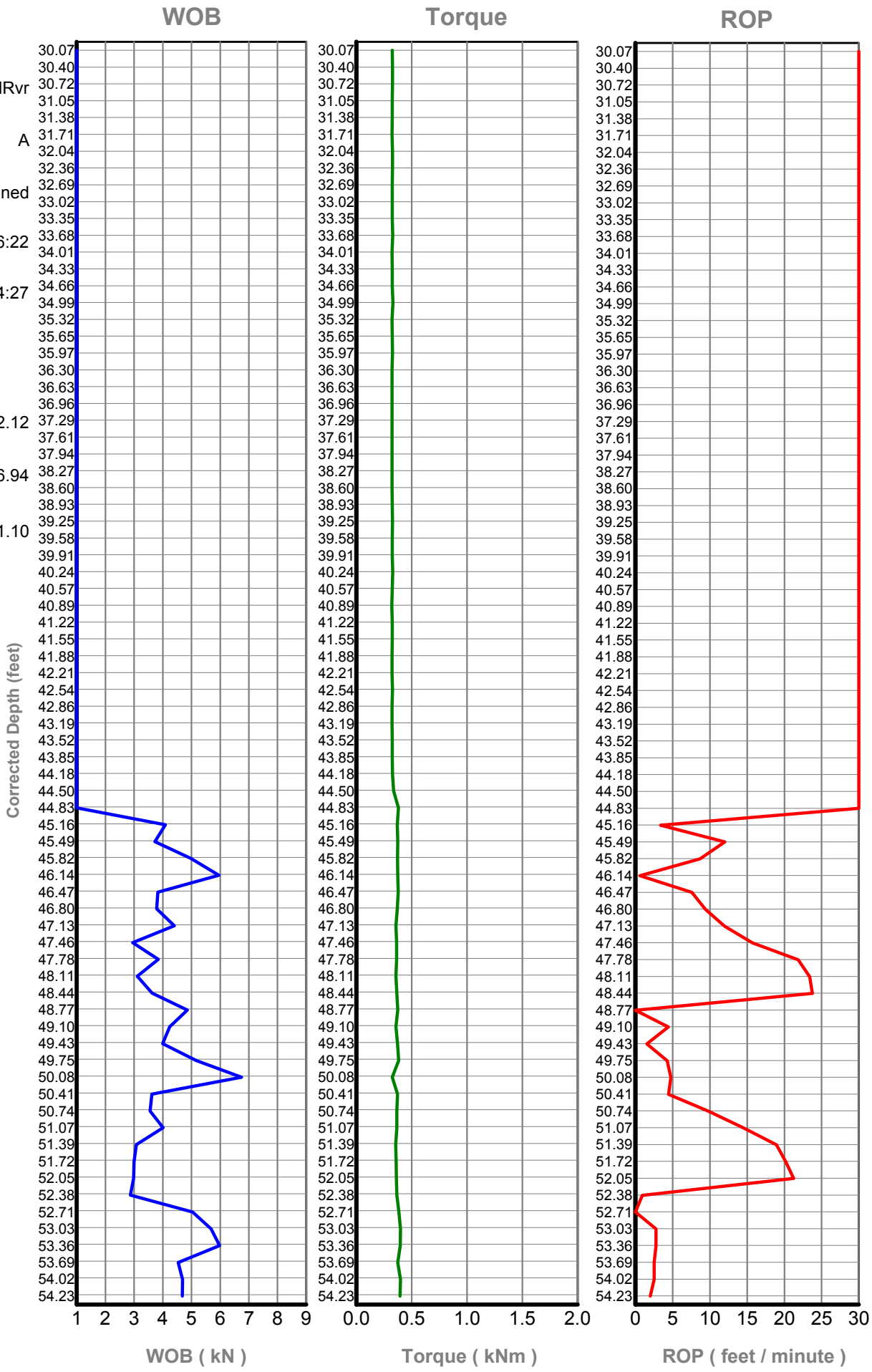
**End Date:**
4/25/2015 1:54:27

**Operator Note:**
'1.1 .8 b Auto Complete'

**Northing:**
366,492.12

**Easting:**
251,176.94

**Tide (feet):**
1.10



## Hole: H405 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 1:26:17 | 30.84 | 30.04 | 808 | 0.26 | 0.33 | 44.2 |
| 4/25/2015 1:26:17 | 31.17 | 30.37 | 800 | 0.25 | 0.33 | 43.7 |
| 4/25/2015 1:26:17 | 31.50 | 30.70 | 792 | 0.26 | 0.33 | 43.3 |
| 4/25/2015 1:26:18 | 31.82 | 31.02 | 795 | 0.25 | 0.33 | 43.5 |
| 4/25/2015 1:26:18 | 32.15 | 31.35 | 793 | 0.25 | 0.34 | 43.4 |
| 4/25/2015 1:26:19 | 32.48 | 31.68 | 804 | 0.25 | 0.33 | 43.9 |
| 4/25/2015 1:26:19 | 32.81 | 32.01 | 802 | 0.25 | 0.33 | 43.8 |
| 4/25/2015 1:26:20 | 33.14 | 32.34 | 802 | 0.25 | 0.33 | 43.8 |
| 4/25/2015 1:26:20 | 33.46 | 32.66 | 809 | 0.25 | 0.34 | 44.3 |
| 4/25/2015 1:26:20 | 33.79 | 32.99 | 807 | 0.25 | 0.33 | 44.1 |
| 4/25/2015 1:26:21 | 34.12 | 33.32 | 811 | 0.25 | 0.33 | 44.4 |
| 4/25/2015 1:26:22 | 34.45 | 33.65 | 807 | 0.26 | 0.33 | 44.1 |
| 4/25/2015 1:26:22 | 34.78 | 33.98 | 807 | 0.24 | 0.34 | 44.1 |
| 4/25/2015 1:26:23 | 35.11 | 34.31 | 807 | 0.24 | 0.34 | 44.1 |
| 4/25/2015 1:26:23 | 35.43 | 34.63 | 807 | 0.24 | 0.34 | 44.1 |
| 4/25/2015 1:26:23 | 35.76 | 34.96 | 798 | 0.26 | 0.34 | 43.7 |
| 4/25/2015 1:26:24 | 36.09 | 35.29 | 798 | 0.25 | 0.33 | 43.7 |
| 4/25/2015 1:26:35 | 36.42 | 35.62 | 15 | 0.23 | 0.34 | 0.8 |
| 4/25/2015 1:26:35 | 36.75 | 35.95 | 155 | 0.24 | 0.33 | 8.5 |
| 4/25/2015 1:26:36 | 37.07 | 36.27 | 155 | 0.24 | 0.33 | 8.5 |
| 4/25/2015 1:26:36 | 37.40 | 36.60 | 314 | 0.24 | 0.33 | 17.1 |
| 4/25/2015 1:26:36 | 37.73 | 36.93 | 466 | 0.24 | 0.34 | 25.5 |
| 4/25/2015 1:26:37 | 38.06 | 37.26 | 628 | 0.24 | 0.33 | 34.3 |
| 4/25/2015 1:26:37 | 38.39 | 37.59 | 763 | 0.24 | 0.33 | 41.7 |
| 4/25/2015 1:26:38 | 38.71 | 37.91 | 790 | 0.24 | 0.34 | 43.2 |
| 4/25/2015 1:26:38 | 39.04 | 38.24 | 788 | 0.25 | 0.33 | 43.1 |
| 4/25/2015 1:26:39 | 39.37 | 38.57 | 788 | 0.25 | 0.33 | 43.1 |
| 4/25/2015 1:26:39 | 39.70 | 38.90 | 798 | 0.25 | 0.33 | 43.6 |
| 4/25/2015 1:26:39 | 40.03 | 39.23 | 776 | 0.25 | 0.34 | 42.4 |
| 4/25/2015 1:26:40 | 40.35 | 39.55 | 776 | 0.25 | 0.34 | 42.4 |
| 4/25/2015 1:26:40 | 40.68 | 39.88 | 793 | 0.25 | 0.33 | 43.4 |
| 4/25/2015 1:26:41 | 41.01 | 40.21 | 789 | 0.24 | 0.33 | 43.1 |
| 4/25/2015 1:26:42 | 41.34 | 40.54 | 796 | 0.25 | 0.33 | 43.5 |
| 4/25/2015 1:26:42 | 41.67 | 40.87 | 796 | 0.25 | 0.33 | 43.5 |
| 4/25/2015 1:26:42 | 41.99 | 41.19 | 795 | 0.24 | 0.34 | 43.5 |
| 4/25/2015 1:26:43 | 42.32 | 41.52 | 808 | 0.25 | 0.33 | 44.2 |
| 4/25/2015 1:26:43 | 42.65 | 41.85 | 807 | 0.25 | 0.34 | 44.1 |
| 4/25/2015 1:26:44 | 42.98 | 42.18 | 801 | 0.25 | 0.33 | 43.8 |
| 4/25/2015 1:26:44 | 43.31 | 42.51 | 801 | 0.24 | 0.33 | 43.8 |
| 4/25/2015 1:26:45 | 43.64 | 42.84 | 798 | 0.25 | 0.34 | 43.6 |
| 4/25/2015 1:26:45 | 43.96 | 43.16 | 798 | 0.25 | 0.34 | 43.6 |
| 4/25/2015 1:26:45 | 44.29 | 43.49 | 799 | 0.25 | 0.33 | 43.7 |
| 4/25/2015 1:26:46 | 44.62 | 43.82 | 801 | 0.25 | 0.34 | 43.8 |
| 4/25/2015 1:26:46 | 44.95 | 44.15 | 801 | 0.23 | 0.36 | 43.8 |
| 4/25/2015 1:26:47 | 45.28 | 44.48 | 801 | 0.23 | 0.36 | 43.8 |
| 4/25/2015 1:27:46 | 45.60 | 44.80 | 0 | 2.67 | 0.35 | 0.0 |
| 4/25/2015 1:27:46 | 45.93 | 45.13 | 65 | 2.74 | 0.35 | 3.5 |
| 4/25/2015 1:27:57 | 46.26 | 45.46 | 0 | 3.43 | 0.38 | 0.0 |
| 4/25/2015 1:28:02 | 46.59 | 45.79 | 35 | 3.91 | 0.37 | 1.9 |
| 4/25/2015 1:28:06 | 46.92 | 46.12 | 131 | 5.69 | 0.38 | 7.1 |
| 4/25/2015 1:28:09 | 47.24 | 46.44 | 114 | 5.25 | 0.40 | 6.2 |
| 4/25/2015 1:28:12 | 47.57 | 46.77 | 107 | 6.90 | 0.39 | 5.8 |
| 4/25/2015 1:28:32 | 47.90 | 47.10 | 41 | 5.44 | 0.40 | 2.2 |
| 4/25/2015 1:28:35 | 48.23 | 47.43 | 120 | 3.79 | 0.38 | 6.6 |
| 4/25/2015 1:28:37 | 48.56 | 47.76 | 237 | 3.31 | 0.39 | 13.0 |
| 4/25/2015 1:28:42 | 48.88 | 48.08 | 52 | 3.87 | 0.40 | 2.8 |
| 4/25/2015 1:28:49 | 49.21 | 48.41 | 55 | 3.55 | 0.40 | 3.0 |
| 4/25/2015 1:28:55 | 49.54 | 48.74 | 46 | 3.81 | 0.40 | 2.5 |
| 4/25/2015 1:29:05 | 49.87 | 49.07 | 43 | 3.22 | 0.40 | 2.4 |
| 4/25/2015 1:29:09 | 50.20 | 49.40 | 124 | 3.51 | 0.40 | 6.8 |
| 4/25/2015 1:29:14 | 50.53 | 49.73 | 77 | 4.67 | 0.40 | 4.2 |

## H405 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 1:22:44

**End Date:**
4/25/2015 1:35:45

**Operator Note:**
'0.8 . 6 b Auto Complete'

**Northing:**
366,529.76

**Easting:**
251,222.38

**Tide (feet):**
0.80



## Hole: H406 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 1:26:21 | 30.84 | 30.04 | 611 | 1.98 | 0.16 | 33.4 |
| 4/25/2015 1:26:22 | 31.17 | 30.37 | 614 | 1.98 | 0.16 | 33.6 |
| 4/25/2015 1:26:23 | 31.50 | 30.70 | 616 | 1.98 | 0.16 | 33.7 |
| 4/25/2015 1:26:23 | 31.82 | 31.02 | 606 | 1.97 | 0.16 | 33.1 |
| 4/25/2015 1:26:24 | 32.15 | 31.35 | 606 | 1.95 | 0.16 | 33.1 |
| 4/25/2015 1:26:24 | 32.48 | 31.68 | 608 | 1.98 | 0.16 | 33.2 |
| 4/25/2015 1:26:25 | 32.81 | 32.01 | 608 | 1.98 | 0.16 | 33.2 |
| 4/25/2015 1:26:25 | 33.14 | 32.34 | 614 | 1.96 | 0.16 | 33.6 |
| 4/25/2015 1:26:26 | 33.46 | 32.66 | 621 | 1.97 | 0.16 | 34.0 |
| 4/25/2015 1:26:26 | 33.79 | 32.99 | 610 | 1.97 | 0.17 | 33.4 |
| 4/25/2015 1:26:27 | 34.12 | 33.32 | 623 | 1.97 | 0.17 | 34.1 |
| 4/25/2015 1:26:28 | 34.45 | 33.65 | 622 | 1.95 | 0.17 | 34.0 |
| 4/25/2015 1:26:28 | 34.78 | 33.98 | 619 | 1.98 | 0.17 | 33.9 |
| 4/25/2015 1:26:29 | 35.11 | 34.31 | 619 | 1.97 | 0.16 | 33.8 |
| 4/25/2015 1:26:29 | 35.43 | 34.63 | 619 | 1.97 | 0.17 | 33.8 |
| 4/25/2015 1:26:30 | 35.76 | 34.96 | 609 | 1.96 | 0.17 | 33.3 |
| 4/25/2015 1:26:30 | 36.09 | 35.29 | 609 | 1.97 | 0.17 | 33.3 |
| 4/25/2015 1:26:31 | 36.42 | 35.62 | 622 | 1.98 | 0.17 | 34.0 |
| 4/25/2015 1:26:31 | 36.75 | 35.95 | 606 | 1.97 | 0.17 | 33.1 |
| 4/25/2015 1:26:32 | 37.07 | 36.27 | 606 | 1.98 | 0.17 | 33.1 |
| 4/25/2015 1:26:33 | 37.40 | 36.60 | 605 | 1.98 | 0.17 | 33.1 |
| 4/25/2015 1:26:34 | 37.73 | 36.93 | 605 | 1.97 | 0.17 | 33.1 |
| 4/25/2015 1:26:34 | 38.06 | 37.26 | 615 | 1.98 | 0.17 | 33.6 |
| 4/25/2015 1:26:35 | 38.39 | 37.59 | 612 | 1.98 | 0.16 | 33.5 |
| 4/25/2015 1:26:35 | 38.71 | 37.91 | 626 | 1.98 | 0.17 | 34.2 |
| 4/25/2015 1:26:36 | 39.04 | 38.24 | 605 | 1.98 | 0.17 | 33.1 |
| 4/25/2015 1:26:36 | 39.37 | 38.57 | 634 | 1.96 | 0.17 | 34.7 |
| 4/25/2015 1:26:37 | 39.70 | 38.90 | 631 | 1.97 | 0.16 | 34.5 |
| 4/25/2015 1:26:37 | 40.03 | 39.23 | 610 | 1.98 | 0.17 | 33.4 |
| 4/25/2015 1:26:38 | 40.35 | 39.55 | 610 | 1.97 | 0.17 | 33.4 |
| 4/25/2015 1:26:39 | 40.68 | 39.88 | 624 | 1.97 | 0.16 | 34.1 |
| 4/25/2015 1:26:39 | 41.01 | 40.21 | 618 | 1.98 | 0.17 | 33.8 |
| 4/25/2015 1:26:40 | 41.34 | 40.54 | 601 | 1.99 | 0.17 | 32.9 |
| 4/25/2015 1:26:40 | 41.67 | 40.87 | 601 | 1.97 | 0.17 | 32.9 |
| 4/25/2015 1:26:41 | 41.99 | 41.19 | 623 | 1.98 | 0.17 | 34.1 |
| 4/25/2015 1:26:41 | 42.32 | 41.52 | 609 | 1.98 | 0.17 | 33.3 |
| 4/25/2015 1:26:42 | 42.65 | 41.85 | 613 | 1.96 | 0.16 | 33.5 |
| 4/25/2015 1:26:42 | 42.98 | 42.18 | 598 | 1.99 | 0.16 | 32.7 |
| 4/25/2015 1:26:43 | 43.31 | 42.51 | 598 | 1.98 | 0.17 | 32.7 |
| 4/25/2015 1:26:44 | 43.64 | 42.84 | 606 | 1.98 | 0.16 | 33.1 |
| 4/25/2015 1:26:45 | 43.96 | 43.16 | 609 | 1.95 | 0.17 | 33.3 |
| 4/25/2015 1:27:34 | 44.29 | 43.49 | 12 | 2.00 | 1.43 | 0.7 |
| 4/25/2015 1:27:41 | 44.62 | 43.82 | 23 | 1.97 | 1.24 | 1.3 |
| 4/25/2015 1:27:42 | 44.95 | 44.15 | 163 | 1.96 | 1.13 | 8.9 |
| 4/25/2015 1:27:43 | 45.28 | 44.48 | 290 | 2.02 | 1.00 | 15.9 |
| 4/25/2015 1:27:44 | 45.60 | 44.80 | 324 | 1.96 | 1.15 | 17.7 |
| 4/25/2015 1:28:12 | 45.93 | 45.13 | 32 | 2.00 | 1.14 | 1.8 |
| 4/25/2015 1:28:13 | 46.26 | 45.46 | 179 | 1.96 | 1.45 | 9.8 |
| 4/25/2015 1:28:15 | 46.59 | 45.79 | 226 | 2.02 | 1.21 | 12.3 |
| 4/25/2015 1:28:59 | 46.92 | 46.12 | 0 | 1.98 | 1.23 | 0.0 |
| 4/25/2015 1:29:01 | 47.24 | 46.44 | 121 | 1.96 | 1.43 | 6.6 |
| 4/25/2015 1:29:02 | 47.57 | 46.77 | 234 | 2.02 | 1.15 | 12.8 |
| 4/25/2015 1:29:03 | 47.90 | 47.10 | 257 | 2.00 | 1.25 | 14.1 |
| 4/25/2015 1:29:20 | 48.23 | 47.43 | 32 | 1.96 | 1.16 | 1.8 |
| 4/25/2015 1:29:21 | 48.56 | 47.76 | 183 | 1.98 | 0.99 | 10.0 |
| 4/25/2015 1:29:22 | 48.88 | 48.08 | 300 | 1.96 | 0.98 | 16.4 |
| 4/25/2015 1:29:22 | 49.21 | 48.41 | 415 | 1.97 | 1.11 | 22.7 |
| 4/25/2015 1:29:24 | 49.54 | 48.74 | 429 | 2.02 | 1.33 | 23.5 |
| 4/25/2015 1:29:25 | 49.87 | 49.07 | 190 | 1.93 | 1.16 | 10.4 |
| 4/25/2015 1:29:26 | 50.20 | 49.40 | 221 | 1.97 | 1.11 | 12.1 |
| 4/25/2015 1:29:27 | 50.53 | 49.73 | 316 | 2.00 | 1.21 | 17.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 1:29:29 | 50.85 | 50.05 | 251 | 1.98 | 1.28 | 13.7 |
| 4/25/2015 | 1:30:08 | 51.18 | 50.38 | 36 | 1.98 | 1.28 | 2.0 |
| 4/25/2015 | 1:30:14 | 51.51 | 50.71 | 57 | 1.98 | 1.21 | 3.1 |
| 4/25/2015 | 1:30:18 | 51.84 | 51.04 | 58 | 1.99 | 1.15 | 3.2 |
| 4/25/2015 | 1:30:26 | 52.17 | 51.37 | 46 | 1.95 | 1.26 | 2.5 |
| 4/25/2015 | 1:30:34 | 52.49 | 51.69 | 46 | 2.00 | 1.16 | 2.5 |
| 4/25/2015 | 1:30:41 | 52.82 | 52.02 | 46 | 1.96 | 1.25 | 2.5 |
| 4/25/2015 | 1:30:48 | 53.15 | 52.35 | 43 | 2.00 | 1.24 | 2.4 |
| 4/25/2015 | 1:33:02 | 53.48 | 52.68 | 0 | 1.98 | 1.35 | 0.0 |

## H406 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 1:23:43

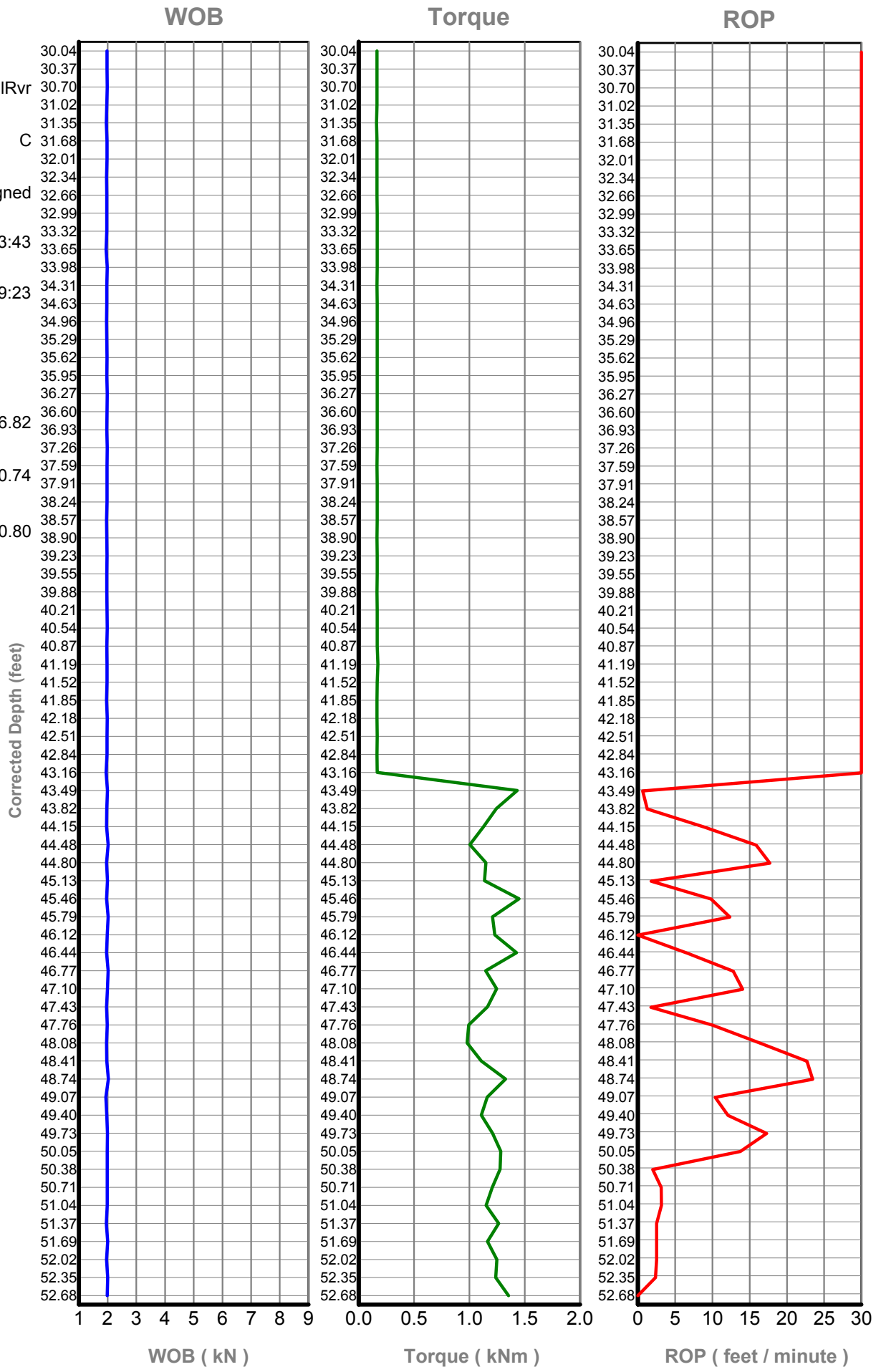
**End Date:**
4/25/2015 1:49:23

**Operator Note:**
'0.8 .6 c Auto Complete'

**Northing:**
366,576.82

**Easting:**
251,280.74

**Tide (feet):**
0.80



## Hole: H407 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:43:47 | 35.43 | 30.23 | 765 | 0.20 | 0.33 | 41.8 |
| 4/24/2015 5:43:47 | 35.76 | 30.56 | 769 | 0.20 | 0.33 | 42.1 |
| 4/24/2015 5:43:48 | 36.09 | 30.89 | 763 | 0.20 | 0.33 | 41.7 |
| 4/24/2015 5:43:48 | 36.42 | 31.22 | 763 | 0.20 | 0.33 | 41.7 |
| 4/24/2015 5:43:49 | 36.75 | 31.55 | 756 | 0.20 | 0.33 | 41.3 |
| 4/24/2015 5:43:49 | 37.07 | 31.87 | 768 | 0.21 | 0.33 | 42.0 |
| 4/24/2015 5:43:50 | 37.40 | 32.20 | 768 | 0.21 | 0.33 | 42.0 |
| 4/24/2015 5:43:50 | 37.73 | 32.53 | 760 | 0.21 | 0.33 | 41.6 |
| 4/24/2015 5:43:50 | 38.06 | 32.86 | 759 | 0.21 | 0.33 | 41.5 |
| 4/24/2015 5:43:51 | 38.39 | 33.19 | 766 | 0.21 | 0.33 | 41.9 |
| 4/24/2015 5:43:51 | 38.71 | 33.51 | 772 | 0.21 | 0.33 | 42.2 |
| 4/24/2015 5:43:52 | 39.04 | 33.84 | 756 | 0.21 | 0.32 | 41.3 |
| 4/24/2015 5:43:52 | 39.37 | 34.17 | 756 | 0.21 | 0.33 | 41.3 |
| 4/24/2015 5:43:53 | 39.70 | 34.50 | 766 | 0.21 | 0.33 | 41.9 |
| 4/24/2015 5:43:53 | 40.03 | 34.83 | 776 | 0.20 | 0.33 | 42.4 |
| 4/24/2015 5:43:54 | 40.35 | 35.15 | 776 | 0.20 | 0.33 | 42.4 |
| 4/24/2015 5:43:54 | 40.68 | 35.48 | 766 | 0.21 | 0.33 | 41.9 |
| 4/24/2015 5:43:54 | 41.01 | 35.81 | 767 | 0.20 | 0.33 | 42.0 |
| 4/24/2015 5:43:55 | 41.34 | 36.14 | 776 | 0.21 | 0.32 | 42.4 |
| 4/24/2015 5:43:55 | 41.67 | 36.47 | 775 | 0.21 | 0.33 | 42.4 |
| 4/24/2015 5:43:56 | 41.99 | 36.79 | 772 | 0.21 | 0.33 | 42.2 |
| 4/24/2015 5:43:57 | 42.32 | 37.12 | 775 | 0.20 | 0.33 | 42.4 |
| 4/24/2015 5:43:57 | 42.65 | 37.45 | 763 | 0.20 | 0.33 | 41.7 |
| 4/24/2015 5:43:58 | 42.98 | 37.78 | 776 | 0.20 | 0.33 | 42.4 |
| 4/24/2015 5:43:58 | 43.31 | 38.11 | 767 | 0.21 | 0.32 | 41.9 |
| 4/24/2015 5:43:59 | 43.64 | 38.44 | 767 | 0.21 | 0.32 | 41.9 |
| 4/24/2015 5:43:59 | 43.96 | 38.76 | 767 | 0.21 | 0.33 | 41.9 |
| 4/24/2015 5:43:59 | 44.29 | 39.09 | 767 | 0.20 | 0.33 | 41.9 |
| 4/24/2015 5:44:00 | 44.62 | 39.42 | 777 | 0.20 | 0.33 | 42.5 |
| 4/24/2015 5:44:00 | 44.95 | 39.75 | 772 | 0.20 | 0.33 | 42.2 |
| 4/24/2015 5:44:01 | 45.28 | 40.08 | 772 | 0.20 | 0.33 | 42.2 |
| 4/24/2015 5:44:01 | 45.60 | 40.40 | 764 | 0.20 | 0.33 | 41.8 |
| 4/24/2015 5:44:02 | 45.93 | 40.73 | 766 | 0.21 | 0.33 | 41.9 |
| 4/24/2015 5:44:02 | 46.26 | 41.06 | 754 | 0.20 | 0.33 | 41.2 |
| 4/24/2015 5:44:03 | 46.59 | 41.39 | 754 | 0.20 | 0.33 | 41.2 |
| 4/24/2015 5:44:03 | 46.92 | 41.72 | 755 | 0.21 | 0.32 | 41.3 |
| 4/24/2015 5:44:03 | 47.24 | 42.04 | 758 | 0.20 | 0.33 | 41.5 |
| 4/24/2015 5:44:04 | 47.57 | 42.37 | 761 | 0.20 | 0.33 | 41.6 |
| 4/24/2015 5:44:04 | 47.90 | 42.70 | 761 | 0.21 | 0.33 | 41.6 |
| 4/24/2015 5:44:05 | 48.23 | 43.03 | 771 | 0.20 | 0.33 | 42.1 |
| 4/24/2015 5:44:05 | 48.56 | 43.36 | 758 | 0.21 | 0.33 | 41.5 |
| 4/24/2015 5:44:06 | 48.88 | 43.68 | 766 | 0.19 | 0.35 | 41.9 |
| 4/24/2015 5:44:07 | 49.21 | 44.01 | 632 | 0.18 | 0.40 | 34.5 |
| 4/24/2015 5:44:58 | 49.54 | 44.34 | 0 | 3.71 | 0.36 | 0.0 |
| 4/24/2015 5:45:00 | 49.87 | 44.67 | 64 | 3.98 | 0.36 | 3.5 |
| 4/24/2015 5:45:02 | 50.20 | 45.00 | 142 | 3.98 | 0.37 | 7.8 |
| 4/24/2015 5:45:04 | 50.53 | 45.33 | 192 | 4.29 | 0.37 | 10.5 |
| 4/24/2015 5:45:05 | 50.85 | 45.65 | 278 | 3.79 | 0.36 | 15.2 |
| 4/24/2015 5:45:06 | 51.18 | 45.98 | 321 | 3.14 | 0.36 | 17.6 |
| 4/24/2015 5:45:06 | 51.51 | 46.31 | 368 | 3.22 | 0.36 | 20.1 |
| 4/24/2015 5:45:07 | 51.84 | 46.64 | 425 | 3.35 | 0.37 | 23.2 |
| 4/24/2015 5:45:08 | 52.17 | 46.97 | 405 | 3.50 | 0.38 | 22.1 |
| 4/24/2015 5:45:11 | 52.49 | 47.29 | 159 | 5.08 | 0.40 | 8.7 |
| 4/24/2015 5:45:28 | 52.82 | 47.62 | 93 | 3.52 | 0.37 | 5.1 |
| 4/24/2015 5:45:29 | 53.15 | 47.95 | 216 | 3.94 | 0.36 | 11.8 |
| 4/24/2015 5:45:30 | 53.48 | 48.28 | 318 | 3.96 | 0.36 | 17.4 |
| 4/24/2015 5:45:31 | 53.81 | 48.61 | 356 | 4.38 | 0.36 | 19.5 |
| 4/24/2015 5:45:35 | 54.13 | 48.93 | 6 | 3.38 | 0.37 | 0.3 |
| 4/24/2015 5:45:37 | 54.46 | 49.26 | 139 | 3.22 | 0.36 | 7.6 |
| 4/24/2015 5:45:38 | 54.79 | 49.59 | 296 | 3.02 | 0.36 | 16.2 |
| 4/24/2015 5:45:38 | 55.12 | 49.92 | 354 | 2.74 | 0.34 | 19.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:45:39 | 55.45 | 50.25 | 431 | 2.88 | 0.35 | 23.6 |
| 4/24/2015 | 5:45:39 | 55.77 | 50.57 | 493 | 2.82 | 0.35 | 26.9 |
| 4/24/2015 | 5:45:40 | 56.10 | 50.90 | 544 | 3.18 | 0.35 | 29.7 |
| 4/24/2015 | 5:45:51 | 56.43 | 51.23 | 0 | 2.52 | 0.34 | 0.0 |
| 4/24/2015 | 5:45:52 | 56.76 | 51.56 | 94 | 2.47 | 0.34 | 5.1 |
| 4/24/2015 | 5:45:52 | 57.09 | 51.89 | 236 | 2.55 | 0.34 | 12.9 |
| 4/24/2015 | 5:45:53 | 57.41 | 52.21 | 357 | 2.74 | 0.34 | 19.5 |
| 4/24/2015 | 5:45:53 | 57.74 | 52.54 | 357 | 2.89 | 0.35 | 19.5 |
| 4/24/2015 | 5:45:54 | 58.07 | 52.87 | 591 | 3.33 | 0.36 | 32.3 |
| 4/24/2015 | 5:45:55 | 58.40 | 53.20 | 507 | 5.50 | 0.37 | 27.7 |
| 4/24/2015 | 5:45:56 | 58.73 | 53.53 | 394 | 3.67 | 0.36 | 21.5 |
| 4/24/2015 | 5:45:57 | 59.06 | 53.86 | 329 | 4.25 | 0.35 | 18.0 |
| 4/24/2015 | 5:45:58 | 59.38 | 54.18 | 350 | 3.04 | 0.35 | 19.2 |
| 4/24/2015 | 5:45:59 | 59.71 | 54.51 | 370 | 2.84 | 0.35 | 20.2 |
| 4/24/2015 | 5:46:00 | 60.04 | 54.84 | 405 | 4.02 | 0.38 | 22.1 |
| 4/24/2015 | 5:46:01 | 60.16 | 54.96 | 321 | 4.33 | 0.39 | 17.6 |

## H407 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 5:40:29

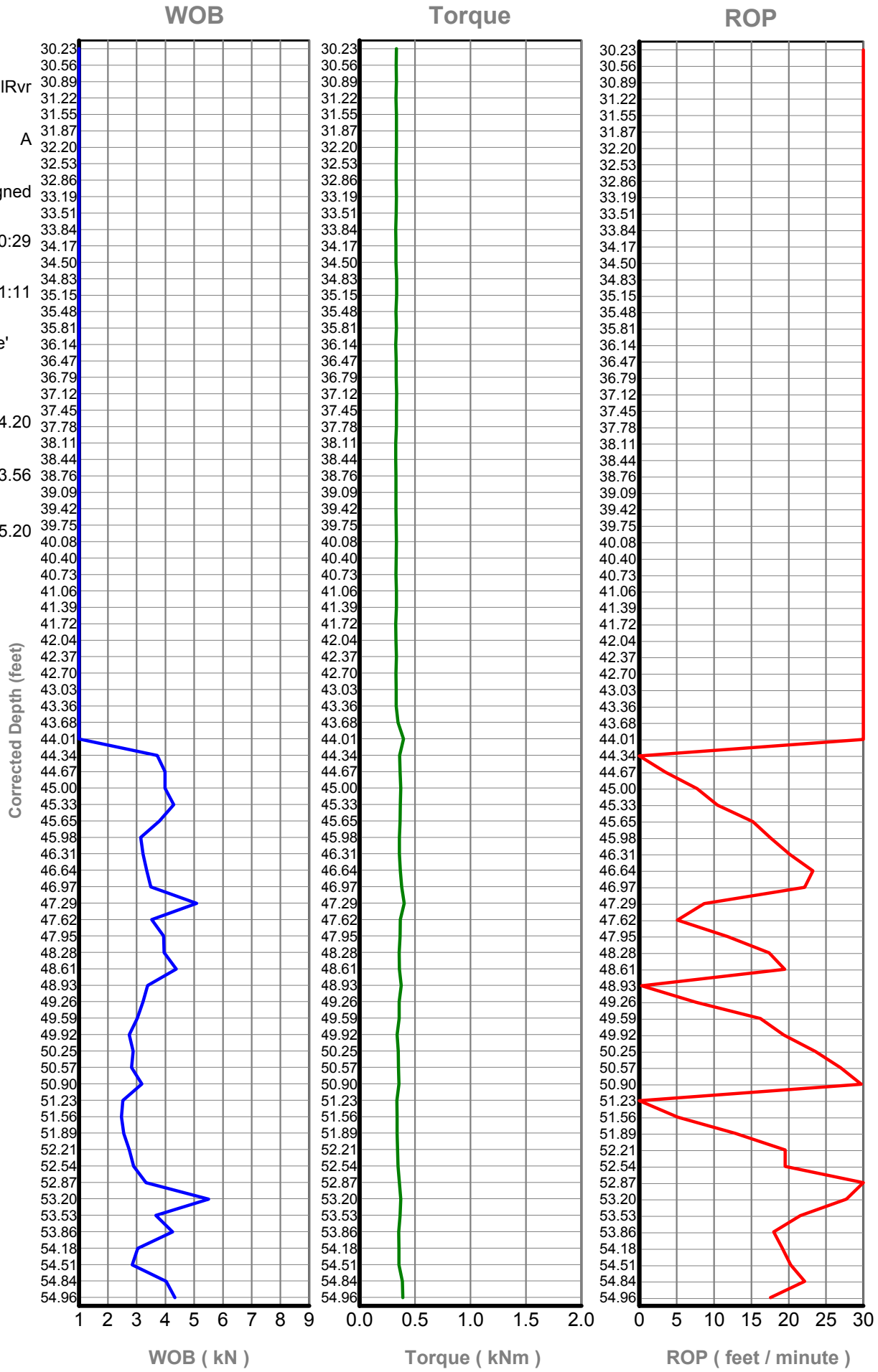
**End Date:**
4/24/2015 5:51:11

**Operator Note:**
'5.2 5.2 b Auto Complete'

**Northing:**
366,634.20

**Easting:**
251,363.56

**Tide (feet):**
5.20



## Hole: H408 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:54:50 | 35.11 | 30.01 | 532 | 0.21 | 0.35 | 29.1 |
| 4/24/2015 5:54:50 | 35.43 | 30.33 | 529 | 0.21 | 0.35 | 28.9 |
| 4/24/2015 5:54:51 | 35.76 | 30.66 | 526 | 0.21 | 0.35 | 28.8 |
| 4/24/2015 5:54:52 | 36.09 | 30.99 | 526 | 0.21 | 0.35 | 28.8 |
| 4/24/2015 5:54:52 | 36.42 | 31.32 | 510 | 0.21 | 0.35 | 27.9 |
| 4/24/2015 5:54:54 | 36.75 | 31.65 | 512 | 0.21 | 0.35 | 28.0 |
| 4/24/2015 5:54:54 | 37.07 | 31.97 | 512 | 0.21 | 0.35 | 28.0 |
| 4/24/2015 5:54:55 | 37.40 | 32.30 | 515 | 0.32 | 0.35 | 28.2 |
| 4/24/2015 5:54:56 | 37.73 | 32.63 | 521 | 0.21 | 0.35 | 28.5 |
| 4/24/2015 5:54:56 | 38.06 | 32.96 | 540 | 0.20 | 0.35 | 29.6 |
| 4/24/2015 5:54:57 | 38.39 | 33.29 | 542 | 0.21 | 0.35 | 29.6 |
| 4/24/2015 5:54:57 | 38.71 | 33.61 | 535 | 0.20 | 0.35 | 29.2 |
| 4/24/2015 5:54:58 | 39.04 | 33.94 | 532 | 0.21 | 0.35 | 29.1 |
| 4/24/2015 5:54:59 | 39.37 | 34.27 | 529 | 0.20 | 0.35 | 28.9 |
| 4/24/2015 5:54:59 | 39.70 | 34.60 | 532 | 0.20 | 0.35 | 29.1 |
| 4/24/2015 5:55:00 | 40.03 | 34.93 | 532 | 0.21 | 0.35 | 29.1 |
| 4/24/2015 5:55:01 | 40.35 | 35.25 | 532 | 0.20 | 0.35 | 29.1 |
| 4/24/2015 5:55:01 | 40.68 | 35.58 | 526 | 0.21 | 0.35 | 28.8 |
| 4/24/2015 5:55:02 | 41.01 | 35.91 | 529 | 0.20 | 0.35 | 28.9 |
| 4/24/2015 5:55:03 | 41.34 | 36.24 | 521 | 0.23 | 0.35 | 28.5 |
| 4/24/2015 5:55:04 | 41.67 | 36.57 | 528 | 0.21 | 0.35 | 28.8 |
| 4/24/2015 5:55:04 | 41.99 | 36.89 | 531 | 0.20 | 0.35 | 29.0 |
| 4/24/2015 5:55:05 | 42.32 | 37.22 | 519 | 0.20 | 0.35 | 28.4 |
| 4/24/2015 5:55:06 | 42.65 | 37.55 | 519 | 0.20 | 0.35 | 28.4 |
| 4/24/2015 5:55:06 | 42.98 | 37.88 | 531 | 0.20 | 0.35 | 29.0 |
| 4/24/2015 5:55:07 | 43.31 | 38.21 | 515 | 0.20 | 0.35 | 28.2 |
| 4/24/2015 5:55:08 | 43.64 | 38.54 | 518 | 0.20 | 0.35 | 28.3 |
| 4/24/2015 5:55:08 | 43.96 | 38.86 | 527 | 0.20 | 0.35 | 28.8 |
| 4/24/2015 5:55:09 | 44.29 | 39.19 | 526 | 0.20 | 0.35 | 28.8 |
| 4/24/2015 5:55:10 | 44.62 | 39.52 | 520 | 0.20 | 0.35 | 28.5 |
| 4/24/2015 5:55:10 | 44.95 | 39.85 | 512 | 0.20 | 0.36 | 28.0 |
| 4/24/2015 5:55:11 | 45.28 | 40.18 | 512 | 0.21 | 0.35 | 28.0 |
| 4/24/2015 5:55:12 | 45.60 | 40.50 | 506 | 0.20 | 0.35 | 27.7 |
| 4/24/2015 5:55:12 | 45.93 | 40.83 | 506 | 0.21 | 0.35 | 27.7 |
| 4/24/2015 5:55:13 | 46.26 | 41.16 | 524 | 0.20 | 0.35 | 28.7 |
| 4/24/2015 5:55:14 | 46.59 | 41.49 | 531 | 0.21 | 0.35 | 29.0 |
| 4/24/2015 5:55:15 | 46.92 | 41.82 | 522 | 0.21 | 0.35 | 28.5 |
| 4/24/2015 5:55:15 | 47.24 | 42.14 | 539 | 0.21 | 0.35 | 29.5 |
| 4/24/2015 5:55:16 | 47.57 | 42.47 | 523 | 0.21 | 0.35 | 28.6 |
| 4/24/2015 5:55:17 | 47.90 | 42.80 | 530 | 0.21 | 0.35 | 29.0 |
| 4/24/2015 5:55:17 | 48.23 | 43.13 | 530 | 0.21 | 0.35 | 29.0 |
| 4/24/2015 5:55:18 | 48.56 | 43.46 | 527 | 0.20 | 0.35 | 28.8 |
| 4/24/2015 5:55:19 | 48.88 | 43.78 | 532 | 0.20 | 0.36 | 29.1 |
| 4/24/2015 5:55:19 | 49.21 | 44.11 | 523 | 0.20 | 0.37 | 28.6 |
| 4/24/2015 5:55:48 | 49.54 | 44.44 | 3 | 2.55 | 0.36 | 0.2 |
| 4/24/2015 5:55:48 | 49.87 | 44.77 | 59 | 4.07 | 0.38 | 3.2 |
| 4/24/2015 5:55:50 | 50.20 | 45.10 | 277 | 4.89 | 0.38 | 15.2 |
| 4/24/2015 5:55:52 | 50.53 | 45.43 | 176 | 5.40 | 0.38 | 9.6 |
| 4/24/2015 5:55:53 | 50.85 | 45.75 | 201 | 3.43 | 0.37 | 11.0 |
| 4/24/2015 5:55:55 | 51.18 | 46.08 | 237 | 4.03 | 0.37 | 13.0 |
| 4/24/2015 5:56:03 | 51.51 | 46.41 | 20 | 4.68 | 0.40 | 1.1 |
| 4/24/2015 5:56:13 | 51.84 | 46.74 | 15 | 5.00 | 0.38 | 0.8 |
| 4/24/2015 5:56:15 | 52.17 | 47.07 | 129 | 4.25 | 0.37 | 7.0 |
| 4/24/2015 5:56:17 | 52.49 | 47.39 | 192 | 3.58 | 0.37 | 10.5 |
| 4/24/2015 5:56:18 | 52.82 | 47.72 | 241 | 3.54 | 0.36 | 13.2 |
| 4/24/2015 5:56:19 | 53.15 | 48.05 | 340 | 3.69 | 0.36 | 18.6 |
| 4/24/2015 5:56:20 | 53.48 | 48.38 | 379 | 4.34 | 0.36 | 20.7 |
| 4/24/2015 5:56:21 | 53.81 | 48.71 | 385 | 4.89 | 0.36 | 21.1 |
| 4/24/2015 5:56:22 | 54.13 | 49.03 | 379 | 3.61 | 0.36 | 20.7 |
| 4/24/2015 5:56:41 | 54.46 | 49.36 | 0 | 4.07 | 0.35 | 0.0 |
| 4/24/2015 5:56:41 | 54.79 | 49.69 | 66 | 3.30 | 0.34 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:56:42 | 55.12 | 50.02 | 66 | 2.60 | 0.34 | 3.6 |
| 4/24/2015 | 5:56:43 | 55.45 | 50.35 | 190 | 2.52 | 0.35 | 10.4 |
| 4/24/2015 | 5:56:43 | 55.77 | 50.67 | 300 | 2.60 | 0.35 | 16.4 |
| 4/24/2015 | 5:56:44 | 56.10 | 51.00 | 406 | 2.69 | 0.36 | 22.2 |
| 4/24/2015 | 5:56:45 | 56.43 | 51.33 | 498 | 3.11 | 0.36 | 27.2 |
| 4/24/2015 | 5:56:45 | 56.76 | 51.66 | 514 | 3.29 | 0.36 | 28.1 |
| 4/24/2015 | 5:56:47 | 57.09 | 51.99 | 404 | 2.97 | 0.37 | 22.1 |
| 4/24/2015 | 5:56:48 | 57.41 | 52.31 | 342 | 2.67 | 0.35 | 18.7 |
| 4/24/2015 | 5:56:49 | 57.74 | 52.64 | 342 | 3.04 | 0.36 | 18.7 |
| 4/24/2015 | 5:56:49 | 58.07 | 52.97 | 358 | 2.67 | 0.36 | 19.6 |
| 4/24/2015 | 5:56:50 | 58.40 | 53.30 | 446 | 2.46 | 0.34 | 24.4 |
| 4/24/2015 | 5:56:51 | 58.73 | 53.63 | 512 | 2.83 | 0.36 | 28.0 |
| 4/24/2015 | 5:56:51 | 59.06 | 53.96 | 528 | 2.48 | 0.35 | 28.9 |
| 4/24/2015 | 5:56:52 | 59.38 | 54.28 | 503 | 4.41 | 0.37 | 27.5 |
| 4/24/2015 | 5:57:00 | 59.71 | 54.61 | 0 | 5.02 | 0.39 | 0.0 |
| 4/24/2015 | 5:57:12 | 60.04 | 54.94 | 43 | 4.04 | 0.38 | 2.4 |
| 4/24/2015 | 5:57:22 | 60.27 | 55.17 | 14 | 4.45 | 0.40 | 0.8 |

## H408 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 5:51:16

**End Date:**
4/24/2015 6:00:11

**Operator Note:**
'5.1 5.2 b Auto Complete'

**Northing:**
366,669.60

**Easting:**
251,410.76

**Tide (feet):**
5.10



## Hole: H409 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:44:51 | 35.43 | 30.23 | 579 | 2.04 | 0.18 | 31.7 |
| 4/24/2015 5:44:51 | 35.76 | 30.56 | 563 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 5:44:52 | 36.09 | 30.89 | 561 | 2.05 | 0.18 | 30.7 |
| 4/24/2015 5:44:53 | 36.42 | 31.22 | 561 | 2.05 | 0.18 | 30.7 |
| 4/24/2015 5:44:53 | 36.75 | 31.55 | 565 | 2.02 | 0.18 | 30.9 |
| 4/24/2015 5:44:54 | 37.07 | 31.87 | 565 | 2.06 | 0.18 | 30.9 |
| 4/24/2015 5:44:55 | 37.40 | 32.20 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 5:44:56 | 37.73 | 32.53 | 574 | 2.02 | 0.18 | 31.4 |
| 4/24/2015 5:44:56 | 38.06 | 32.86 | 587 | 2.05 | 0.18 | 32.1 |
| 4/24/2015 5:44:57 | 38.39 | 33.19 | 582 | 2.04 | 0.18 | 31.8 |
| 4/24/2015 5:44:57 | 38.71 | 33.51 | 574 | 2.05 | 0.18 | 31.4 |
| 4/24/2015 5:44:58 | 39.04 | 33.84 | 576 | 2.05 | 0.18 | 31.5 |
| 4/24/2015 5:44:59 | 39.37 | 34.17 | 567 | 2.00 | 0.18 | 31.0 |
| 4/24/2015 5:44:59 | 39.70 | 34.50 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 5:45:00 | 40.03 | 34.83 | 571 | 2.03 | 0.18 | 31.2 |
| 4/24/2015 5:45:00 | 40.35 | 35.15 | 562 | 2.02 | 0.18 | 30.7 |
| 4/24/2015 5:45:01 | 40.68 | 35.48 | 575 | 2.03 | 0.18 | 31.5 |
| 4/24/2015 5:45:01 | 41.01 | 35.81 | 575 | 2.03 | 0.18 | 31.5 |
| 4/24/2015 5:45:02 | 41.34 | 36.14 | 570 | 2.04 | 0.19 | 31.2 |
| 4/24/2015 5:45:03 | 41.67 | 36.47 | 570 | 2.04 | 0.18 | 31.2 |
| 4/24/2015 5:45:04 | 41.99 | 36.79 | 570 | 2.03 | 0.18 | 31.2 |
| 4/24/2015 5:45:04 | 42.32 | 37.12 | 580 | 2.04 | 0.18 | 31.7 |
| 4/24/2015 5:45:05 | 42.65 | 37.45 | 580 | 2.04 | 0.18 | 31.7 |
| 4/24/2015 5:45:06 | 42.98 | 37.78 | 584 | 2.02 | 0.18 | 31.9 |
| 4/24/2015 5:45:06 | 43.31 | 38.11 | 578 | 2.03 | 0.18 | 31.6 |
| 4/24/2015 5:45:07 | 43.64 | 38.44 | 578 | 2.03 | 0.18 | 31.6 |
| 4/24/2015 5:45:07 | 43.96 | 38.76 | 577 | 2.04 | 0.18 | 31.6 |
| 4/24/2015 5:45:08 | 44.29 | 39.09 | 579 | 2.04 | 0.18 | 31.6 |
| 4/24/2015 5:45:09 | 44.62 | 39.42 | 568 | 2.05 | 0.18 | 31.1 |
| 4/24/2015 5:45:09 | 44.95 | 39.75 | 578 | 2.06 | 0.18 | 31.6 |
| 4/24/2015 5:45:10 | 45.28 | 40.08 | 572 | 2.04 | 0.18 | 31.3 |
| 4/24/2015 5:45:10 | 45.60 | 40.40 | 572 | 2.03 | 0.18 | 31.3 |
| 4/24/2015 5:45:11 | 45.93 | 40.73 | 563 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 5:45:12 | 46.26 | 41.06 | 573 | 2.04 | 0.18 | 31.3 |
| 4/24/2015 5:45:12 | 46.59 | 41.39 | 573 | 2.04 | 0.18 | 31.4 |
| 4/24/2015 5:45:13 | 46.92 | 41.72 | 567 | 2.02 | 0.18 | 31.0 |
| 4/24/2015 5:45:13 | 47.24 | 42.04 | 577 | 2.04 | 0.18 | 31.5 |
| 4/24/2015 5:45:14 | 47.57 | 42.37 | 576 | 2.03 | 0.18 | 31.5 |
| 4/24/2015 5:45:15 | 47.90 | 42.70 | 561 | 2.00 | 0.18 | 30.7 |
| 4/24/2015 5:45:16 | 48.23 | 43.03 | 571 | 2.04 | 0.18 | 31.2 |
| 4/24/2015 5:45:16 | 48.56 | 43.36 | 571 | 2.04 | 0.18 | 31.2 |
| 4/24/2015 5:45:17 | 48.88 | 43.68 | 565 | 2.00 | 0.19 | 30.9 |
| 4/24/2015 5:45:17 | 49.21 | 44.01 | 565 | 2.04 | 0.18 | 30.9 |
| 4/24/2015 5:45:33 | 49.54 | 44.34 | 0 | 2.04 | 1.32 | 0.0 |
| 4/24/2015 5:45:39 | 49.87 | 44.67 | 95 | 2.06 | 1.23 | 5.2 |
| 4/24/2015 5:45:47 | 50.20 | 45.00 | 8 | 2.03 | 1.37 | 0.4 |
| 4/24/2015 5:45:49 | 50.53 | 45.33 | 92 | 2.05 | 1.26 | 5.0 |
| 4/24/2015 5:45:50 | 50.85 | 45.65 | 205 | 2.02 | 1.23 | 11.2 |
| 4/24/2015 5:45:51 | 51.18 | 45.98 | 298 | 2.04 | 1.28 | 16.3 |
| 4/24/2015 5:46:06 | 51.51 | 46.31 | 40 | 2.04 | 1.29 | 2.2 |
| 4/24/2015 5:46:12 | 51.84 | 46.64 | 71 | 2.05 | 1.39 | 3.9 |
| 4/24/2015 5:46:14 | 52.17 | 46.97 | 208 | 2.00 | 1.17 | 11.4 |
| 4/24/2015 5:46:15 | 52.49 | 47.29 | 270 | 2.01 | 1.26 | 14.8 |
| 4/24/2015 5:46:24 | 52.82 | 47.62 | 47 | 2.04 | 1.24 | 2.6 |
| 4/24/2015 5:46:45 | 53.15 | 47.95 | 20 | 2.03 | 1.28 | 1.1 |
| 4/24/2015 5:46:47 | 53.48 | 48.28 | 156 | 2.02 | 1.27 | 8.5 |
| 4/24/2015 5:46:56 | 53.81 | 48.61 | 70 | 2.02 | 1.23 | 3.8 |
| 4/24/2015 5:46:57 | 54.13 | 48.93 | 167 | 2.02 | 1.54 | 9.2 |
| 4/24/2015 5:46:59 | 54.46 | 49.26 | 236 | 2.02 | 1.47 | 12.9 |
| 4/24/2015 5:47:11 | 54.79 | 49.59 | 109 | 2.03 | 1.17 | 6.0 |
| 4/24/2015 5:47:13 | 55.12 | 49.92 | 243 | 2.02 | 1.29 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:47:18 | 55.45 | 50.25 | 34 | 2.03 | 1.22 | 1.9 |
| 4/24/2015 | 5:47:20 | 55.77 | 50.57 | 155 | 2.02 | 1.14 | 8.5 |
| 4/24/2015 | 5:47:21 | 56.10 | 50.90 | 231 | 2.03 | 1.12 | 12.6 |
| 4/24/2015 | 5:47:44 | 56.43 | 51.23 | 81 | 2.03 | 1.15 | 4.4 |
| 4/24/2015 | 5:47:46 | 56.76 | 51.56 | 257 | 2.02 | 1.12 | 14.0 |
| 4/24/2015 | 5:47:47 | 57.09 | 51.89 | 289 | 2.01 | 1.11 | 15.8 |
| 4/24/2015 | 5:47:48 | 57.41 | 52.21 | 286 | 2.03 | 1.11 | 15.6 |
| 4/24/2015 | 5:47:49 | 57.74 | 52.54 | 292 | 2.03 | 1.09 | 16.0 |
| 4/24/2015 | 5:47:50 | 58.07 | 52.87 | 292 | 2.04 | 1.11 | 16.0 |
| 4/24/2015 | 5:47:52 | 58.40 | 53.20 | 283 | 2.02 | 1.10 | 15.5 |
| 4/24/2015 | 5:47:53 | 58.73 | 53.53 | 310 | 2.04 | 1.11 | 17.0 |
| 4/24/2015 | 5:47:54 | 59.06 | 53.86 | 319 | 2.04 | 1.11 | 17.5 |
| 4/24/2015 | 5:47:55 | 59.38 | 54.18 | 315 | 2.02 | 1.09 | 17.2 |
| 4/24/2015 | 5:47:56 | 59.71 | 54.51 | 303 | 2.04 | 1.10 | 16.6 |
| 4/24/2015 | 5:47:58 | 60.04 | 54.84 | 306 | 2.02 | 1.11 | 16.7 |
| 4/24/2015 | 5:47:59 | 60.37 | 55.17 | 292 | 2.03 | 1.11 | 16.0 |
| 4/24/2015 | 5:47:59 | 60.53 | 55.33 | 289 | 2.03 | 1.09 | 15.8 |

## H409 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/24/2015 5:42:42

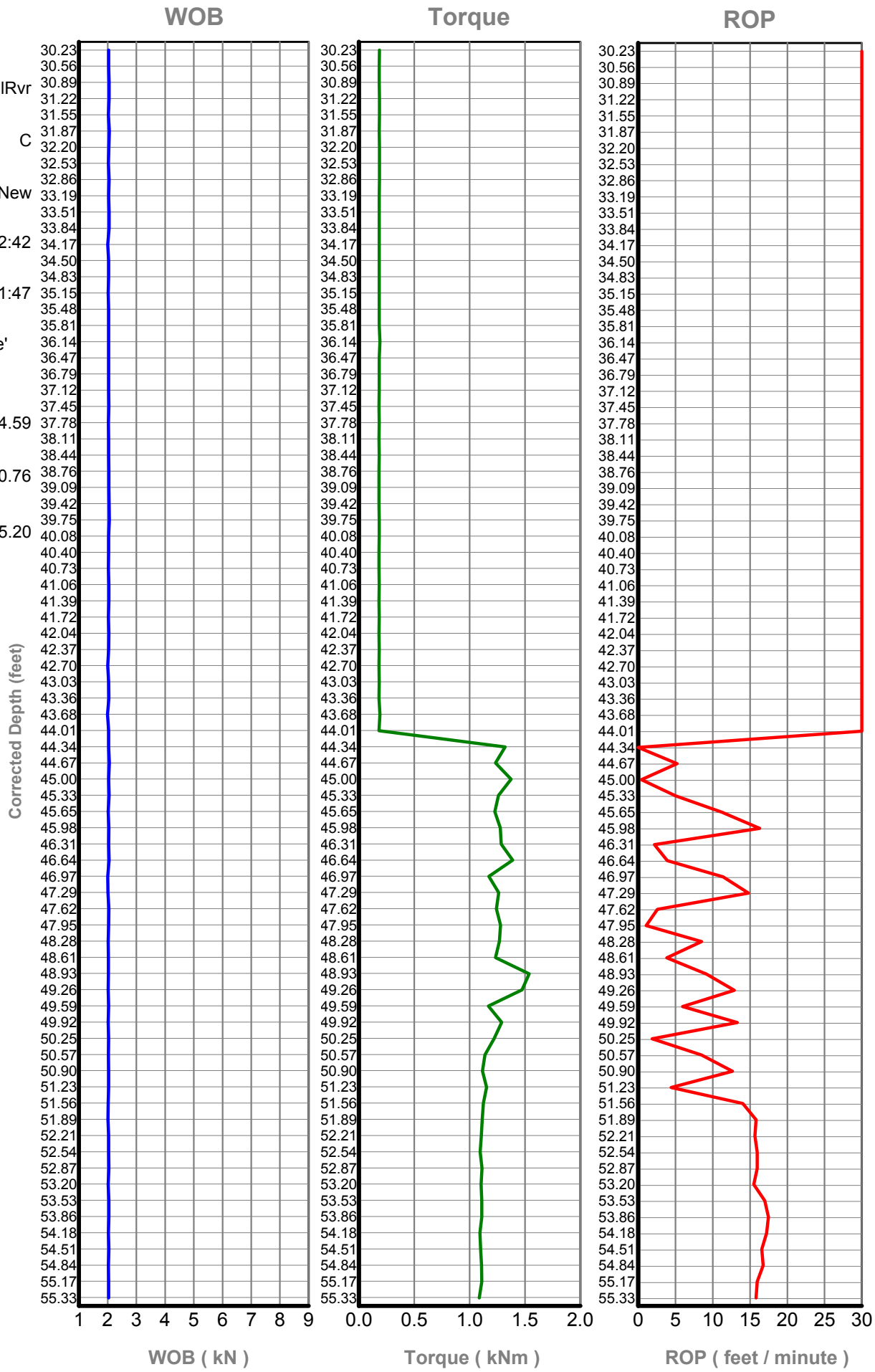
**End Date:**
4/24/2015 5:51:47

**Operator Note:**
'5.2 5.2 c Auto Complete'

**Northing:**
366,714.59

**Easting:**
251,470.76

**Tide (feet):**
5.20



## Hole: H41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:38:16 | 30.84 | 30.14 | 702 | 1.99 | 0.17 | 38.4 |
| 4/23/2015 22:38:17 | 31.17 | 30.47 | 698 | 2.00 | 0.17 | 38.2 |
| 4/23/2015 22:38:17 | 31.50 | 30.80 | 694 | 2.00 | 0.17 | 38.0 |
| 4/23/2015 22:38:18 | 31.82 | 31.12 | 703 | 1.99 | 0.17 | 38.4 |
| 4/23/2015 22:38:18 | 32.15 | 31.45 | 703 | 1.98 | 0.17 | 38.4 |
| 4/23/2015 22:38:19 | 32.48 | 31.78 | 700 | 1.98 | 0.17 | 38.3 |
| 4/23/2015 22:38:20 | 32.81 | 32.11 | 700 | 1.98 | 0.17 | 38.3 |
| 4/23/2015 22:38:19 | 33.14 | 32.44 | 703 | 1.98 | 0.17 | 38.4 |
| 4/23/2015 22:38:20 | 33.46 | 32.76 | 711 | 1.98 | 0.17 | 38.9 |
| 4/23/2015 22:38:21 | 33.79 | 33.09 | 700 | 1.99 | 0.18 | 38.3 |
| 4/23/2015 22:38:21 | 34.12 | 33.42 | 696 | 2.00 | 0.17 | 38.0 |
| 4/23/2015 22:38:22 | 34.45 | 33.75 | 702 | 1.98 | 0.17 | 38.4 |
| 4/23/2015 22:38:22 | 34.78 | 34.08 | 700 | 1.99 | 0.17 | 38.3 |
| 4/23/2015 22:38:23 | 35.11 | 34.41 | 700 | 1.98 | 0.17 | 38.3 |
| 4/23/2015 22:38:23 | 35.43 | 34.73 | 692 | 2.00 | 0.17 | 37.8 |
| 4/23/2015 22:38:24 | 35.76 | 35.06 | 684 | 1.98 | 0.17 | 37.4 |
| 4/23/2015 22:38:24 | 36.09 | 35.39 | 684 | 1.98 | 0.17 | 37.4 |
| 4/23/2015 22:38:25 | 36.42 | 35.72 | 688 | 1.98 | 0.17 | 37.6 |
| 4/23/2015 22:38:25 | 36.75 | 36.05 | 680 | 1.98 | 0.17 | 37.2 |
| 4/23/2015 22:38:26 | 37.07 | 36.37 | 680 | 1.98 | 0.17 | 37.2 |
| 4/23/2015 22:38:26 | 37.40 | 36.70 | 683 | 1.99 | 0.17 | 37.3 |
| 4/23/2015 22:38:27 | 37.73 | 37.03 | 694 | 1.99 | 0.17 | 38.0 |
| 4/23/2015 22:38:27 | 38.06 | 37.36 | 702 | 2.01 | 0.17 | 38.4 |
| 4/23/2015 22:38:28 | 38.39 | 37.69 | 697 | 1.99 | 0.17 | 38.1 |
| 4/23/2015 22:38:28 | 38.71 | 38.01 | 710 | 2.02 | 0.17 | 38.8 |
| 4/23/2015 22:38:29 | 39.04 | 38.34 | 697 | 1.98 | 0.17 | 38.1 |
| 4/23/2015 22:38:29 | 39.37 | 38.67 | 692 | 2.00 | 0.17 | 37.9 |
| 4/23/2015 22:38:30 | 39.70 | 39.00 | 695 | 2.00 | 0.17 | 38.0 |
| 4/23/2015 22:38:31 | 40.03 | 39.33 | 694 | 1.99 | 0.17 | 37.9 |
| 4/23/2015 22:38:31 | 40.35 | 39.65 | 694 | 1.98 | 0.17 | 37.9 |
| 4/23/2015 22:38:32 | 40.68 | 39.98 | 697 | 1.99 | 0.17 | 38.1 |
| 4/23/2015 22:38:32 | 41.01 | 40.31 | 699 | 1.99 | 0.17 | 38.3 |
| 4/23/2015 22:38:33 | 41.34 | 40.64 | 701 | 2.00 | 0.17 | 38.3 |
| 4/23/2015 22:38:33 | 41.67 | 40.97 | 697 | 1.98 | 0.17 | 38.1 |
| 4/23/2015 22:38:34 | 41.99 | 41.29 | 697 | 1.99 | 0.16 | 38.1 |
| 4/23/2015 22:38:34 | 42.32 | 41.62 | 695 | 1.99 | 0.17 | 38.0 |
| 4/23/2015 22:38:35 | 42.65 | 41.95 | 701 | 1.95 | 0.17 | 38.4 |
| 4/23/2015 22:38:35 | 42.98 | 42.28 | 697 | 1.98 | 0.17 | 38.1 |
| 4/23/2015 22:38:36 | 43.31 | 42.61 | 697 | 1.98 | 0.17 | 38.1 |
| 4/23/2015 22:38:36 | 43.64 | 42.94 | 697 | 2.00 | 0.17 | 38.1 |
| 4/23/2015 22:38:37 | 43.96 | 43.26 | 694 | 2.00 | 0.17 | 38.0 |
| 4/23/2015 22:38:37 | 44.29 | 43.59 | 691 | 2.00 | 0.17 | 37.8 |
| 4/23/2015 22:38:38 | 44.62 | 43.92 | 687 | 1.99 | 0.17 | 37.6 |
| 4/23/2015 22:38:38 | 44.95 | 44.25 | 694 | 2.00 | 0.17 | 38.0 |
| 4/23/2015 22:38:39 | 45.28 | 44.58 | 687 | 1.98 | 0.17 | 37.6 |
| 4/23/2015 22:38:39 | 45.60 | 44.90 | 696 | 1.98 | 0.17 | 38.0 |
| 4/23/2015 22:38:40 | 45.93 | 45.23 | 687 | 2.00 | 0.17 | 37.6 |
| 4/23/2015 22:38:41 | 46.26 | 45.56 | 689 | 2.00 | 0.17 | 37.7 |
| 4/23/2015 22:38:41 | 46.59 | 45.89 | 674 | 2.00 | 0.17 | 36.8 |
| 4/23/2015 22:38:42 | 46.92 | 46.22 | 669 | 1.99 | 0.17 | 36.6 |
| 4/23/2015 22:38:42 | 47.24 | 46.54 | 653 | 2.01 | 0.17 | 35.7 |
| 4/23/2015 22:38:43 | 47.57 | 46.87 | 642 | 2.01 | 0.17 | 35.1 |
| 4/23/2015 22:38:43 | 47.90 | 47.20 | 630 | 2.01 | 0.17 | 34.5 |
| 4/23/2015 22:38:44 | 48.23 | 47.53 | 615 | 2.01 | 0.17 | 33.6 |
| 4/23/2015 22:38:45 | 48.56 | 47.86 | 616 | 2.02 | 0.17 | 33.7 |
| 4/23/2015 22:38:45 | 48.88 | 48.18 | 613 | 2.03 | 0.17 | 33.5 |
| 4/23/2015 22:38:46 | 49.21 | 48.51 | 610 | 2.02 | 0.17 | 33.4 |
| 4/23/2015 22:38:46 | 49.54 | 48.84 | 604 | 2.01 | 0.17 | 33.0 |
| 4/23/2015 22:38:47 | 49.87 | 49.17 | 604 | 2.02 | 0.17 | 33.0 |
| 4/23/2015 22:38:47 | 50.20 | 49.50 | 594 | 2.01 | 0.17 | 32.5 |
| 4/23/2015 22:38:48 | 50.53 | 49.83 | 592 | 2.02 | 0.17 | 32.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:38:49 | 50.85 | 50.15 | 593 | 2.01 | 0.17 | 32.4 |
| 4/23/2015 | 22:38:49 | 51.18 | 50.48 | 587 | 1.99 | 0.17 | 32.1 |
| 4/23/2015 | 22:38:50 | 51.51 | 50.81 | 582 | 2.03 | 0.17 | 31.8 |
| 4/23/2015 | 22:38:50 | 51.84 | 51.14 | 569 | 2.28 | 0.17 | 31.1 |
| 4/23/2015 | 22:38:52 | 52.17 | 51.47 | 546 | 2.01 | 0.17 | 29.9 |
| 4/23/2015 | 22:38:52 | 52.49 | 51.79 | 535 | 1.98 | 0.17 | 29.2 |
| 4/23/2015 | 22:38:53 | 52.82 | 52.12 | 525 | 2.01 | 0.17 | 28.7 |
| 4/23/2015 | 22:38:54 | 53.15 | 52.45 | 521 | 1.95 | 0.17 | 28.5 |
| 4/23/2015 | 22:38:54 | 53.48 | 52.78 | 518 | 2.00 | 0.17 | 28.3 |
| 4/23/2015 | 22:38:55 | 53.81 | 53.11 | 518 | 1.99 | 0.17 | 28.3 |
| 4/23/2015 | 22:38:56 | 54.13 | 53.43 | 506 | 1.99 | 0.17 | 27.7 |
| 4/23/2015 | 22:38:56 | 54.46 | 53.76 | 503 | 2.00 | 0.17 | 27.5 |
| 4/23/2015 | 22:38:57 | 54.79 | 54.09 | 497 | 1.74 | 0.17 | 27.2 |
| 4/23/2015 | 22:38:58 | 55.12 | 54.42 | 491 | 2.00 | 0.17 | 26.9 |
| 4/23/2015 | 22:38:58 | 55.45 | 54.75 | 488 | 1.99 | 0.17 | 26.7 |
| 4/23/2015 | 22:38:59 | 55.77 | 55.07 | 477 | 1.99 | 0.17 | 26.1 |
| 4/23/2015 | 22:39:00 | 56.06 | 55.36 | 460 | 1.99 | 0.17 | 25.1 |

## H41 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:36:36

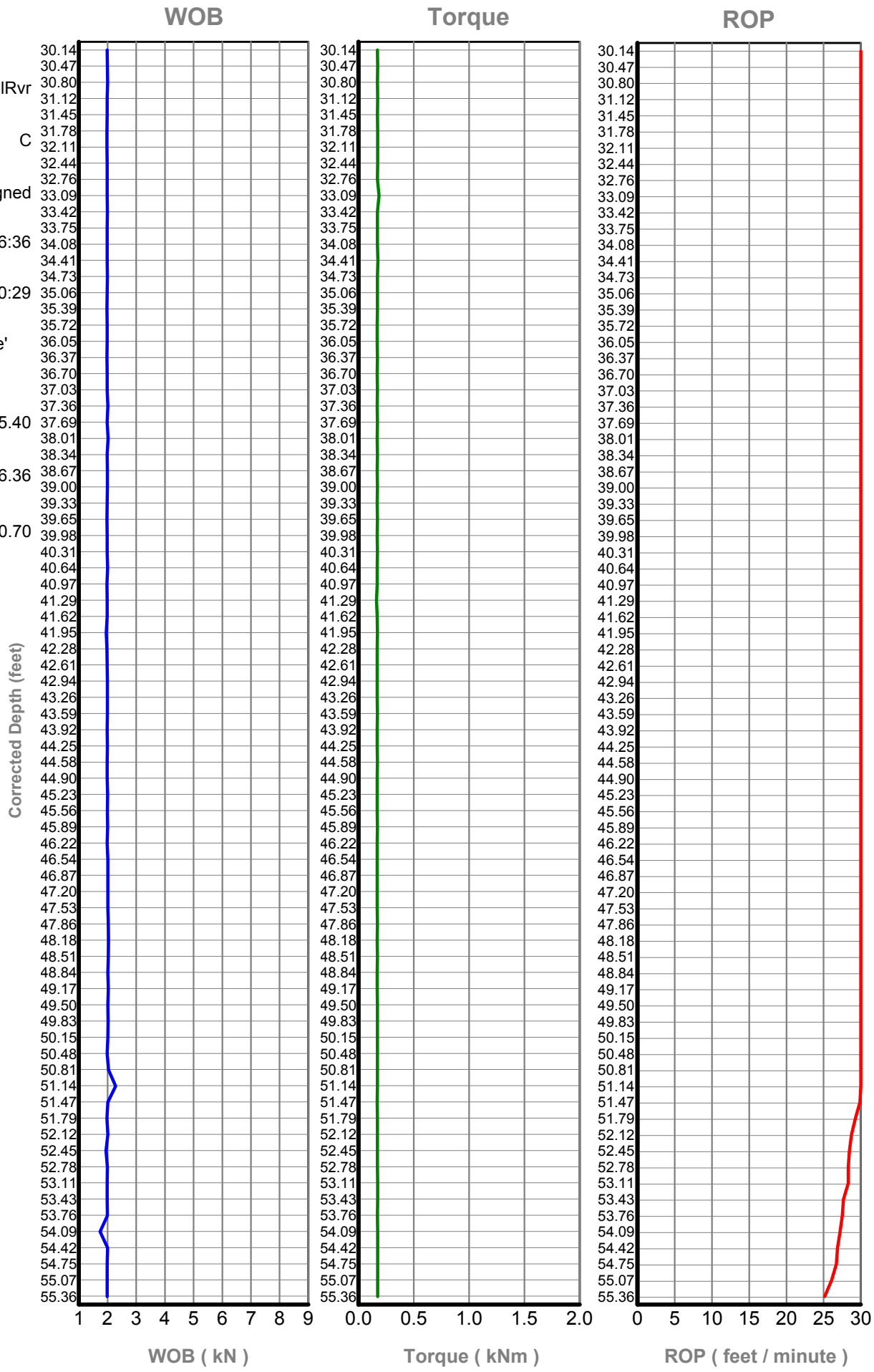
**End Date:**
4/23/2015 22:40:29

**Operator Note:**
'0.7 0.9 c Auto Complete'

**Northing:**
367,475.40

**Easting:**
251,326.36

**Tide (feet):**
0.70



## Hole: H410 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 4:02:46 | 34.78 | 30.28 | 888 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 4:02:47 | 35.11 | 30.61 | 888 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 4:02:47 | 35.43 | 30.93 | 891 | 0.22 | 0.33 | 48.7 |
| 4/24/2015 4:02:48 | 35.76 | 31.26 | 891 | 0.22 | 0.33 | 48.7 |
| 4/24/2015 4:02:48 | 36.09 | 31.59 | 893 | 0.24 | 0.33 | 48.8 |
| 4/24/2015 4:02:49 | 36.42 | 31.92 | 893 | 0.24 | 0.33 | 48.8 |
| 4/24/2015 4:02:49 | 36.75 | 32.25 | 887 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 4:02:49 | 37.07 | 32.57 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 4:02:50 | 37.40 | 32.90 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 4:02:50 | 37.73 | 33.23 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:02:51 | 38.06 | 33.56 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:02:51 | 38.39 | 33.89 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 4:02:51 | 38.71 | 34.21 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 4:02:52 | 39.04 | 34.54 | 887 | 0.24 | 0.33 | 48.5 |
| 4/24/2015 4:02:52 | 39.37 | 34.87 | 887 | 0.24 | 0.33 | 48.5 |
| 4/24/2015 4:02:52 | 39.70 | 35.20 | 876 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 4:02:53 | 40.03 | 35.53 | 858 | 0.22 | 0.33 | 46.9 |
| 4/24/2015 4:02:53 | 40.35 | 35.85 | 858 | 0.22 | 0.32 | 46.9 |
| 4/24/2015 4:02:54 | 40.68 | 36.18 | 858 | 0.22 | 0.32 | 46.9 |
| 4/24/2015 4:02:54 | 41.01 | 36.51 | 877 | 0.22 | 0.33 | 47.9 |
| 4/24/2015 4:02:54 | 41.34 | 36.84 | 860 | 0.22 | 0.32 | 47.0 |
| 4/24/2015 4:02:55 | 41.67 | 37.17 | 850 | 0.22 | 0.32 | 46.5 |
| 4/24/2015 4:02:55 | 41.99 | 37.49 | 850 | 0.22 | 0.32 | 46.5 |
| 4/24/2015 4:02:55 | 42.32 | 37.82 | 850 | 0.22 | 0.33 | 46.5 |
| 4/24/2015 4:02:56 | 42.65 | 38.15 | 875 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 4:02:57 | 42.98 | 38.48 | 875 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 4:02:57 | 43.31 | 38.81 | 881 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 4:02:58 | 43.64 | 39.14 | 881 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 4:02:58 | 43.96 | 39.46 | 874 | 0.21 | 0.32 | 47.8 |
| 4/24/2015 4:02:58 | 44.29 | 39.79 | 871 | 0.22 | 0.32 | 47.6 |
| 4/24/2015 4:02:59 | 44.62 | 40.12 | 871 | 0.22 | 0.32 | 47.6 |
| 4/24/2015 4:02:59 | 44.95 | 40.45 | 871 | 0.22 | 0.32 | 47.6 |
| 4/24/2015 4:02:59 | 45.28 | 40.78 | 905 | 0.22 | 0.32 | 49.5 |
| 4/24/2015 4:03:00 | 45.60 | 41.10 | 856 | 0.22 | 0.33 | 46.8 |
| 4/24/2015 4:03:00 | 45.93 | 41.43 | 856 | 0.22 | 0.33 | 46.8 |
| 4/24/2015 4:03:01 | 46.26 | 41.76 | 872 | 0.22 | 0.33 | 47.7 |
| 4/24/2015 4:03:01 | 46.59 | 42.09 | 872 | 0.22 | 0.33 | 47.7 |
| 4/24/2015 4:03:01 | 46.92 | 42.42 | 872 | 0.22 | 0.33 | 47.7 |
| 4/24/2015 4:03:02 | 47.24 | 42.74 | 872 | 0.22 | 0.33 | 47.7 |
| 4/24/2015 4:03:02 | 47.57 | 43.07 | 877 | 0.22 | 0.32 | 47.9 |
| 4/24/2015 4:03:03 | 47.90 | 43.40 | 877 | 0.18 | 0.33 | 47.9 |
| 4/24/2015 4:03:03 | 48.23 | 43.73 | 877 | 0.18 | 0.33 | 47.9 |
| 4/24/2015 4:03:03 | 48.56 | 44.06 | 858 | 0.22 | 0.33 | 46.9 |
| 4/24/2015 4:03:04 | 48.88 | 44.38 | 898 | 0.22 | 0.32 | 49.1 |
| 4/24/2015 4:03:04 | 49.21 | 44.71 | 886 | 0.22 | 0.34 | 48.4 |
| 4/24/2015 4:03:05 | 49.54 | 45.04 | 841 | 0.20 | 0.37 | 46.0 |
| 4/24/2015 4:03:06 | 49.87 | 45.37 | 733 | 0.22 | 0.40 | 40.1 |
| 4/24/2015 4:04:01 | 50.20 | 45.70 | 0 | 2.76 | 0.36 | 0.0 |
| 4/24/2015 4:04:04 | 50.53 | 46.03 | 150 | 4.75 | 0.39 | 8.2 |
| 4/24/2015 4:04:06 | 50.85 | 46.35 | 133 | 4.19 | 0.37 | 7.3 |
| 4/24/2015 4:04:08 | 51.18 | 46.68 | 167 | 5.70 | 0.39 | 9.2 |
| 4/24/2015 4:04:16 | 51.51 | 47.01 | 57 | 4.85 | 0.41 | 3.1 |
| 4/24/2015 4:04:18 | 51.84 | 47.34 | 159 | 5.08 | 0.39 | 8.7 |
| 4/24/2015 4:04:19 | 52.17 | 47.67 | 187 | 4.24 | 0.38 | 10.2 |
| 4/24/2015 4:04:20 | 52.49 | 47.99 | 266 | 4.12 | 0.38 | 14.5 |
| 4/24/2015 4:04:22 | 52.82 | 48.32 | 347 | 4.24 | 0.38 | 19.0 |
| 4/24/2015 4:04:23 | 53.15 | 48.65 | 372 | 3.92 | 0.38 | 20.4 |
| 4/24/2015 4:05:04 | 53.48 | 48.98 | 46 | 4.52 | 0.36 | 2.5 |
| 4/24/2015 4:05:05 | 53.81 | 49.31 | 166 | 3.96 | 0.37 | 9.1 |
| 4/24/2015 4:05:06 | 54.13 | 49.63 | 253 | 2.97 | 0.36 | 13.8 |
| 4/24/2015 4:05:07 | 54.46 | 49.96 | 267 | 3.14 | 0.35 | 14.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 4:05:08 | 54.79 | 50.29 | 357 | 2.44 | 0.35 | 19.5 |
| 4/24/2015 | 4:05:08 | 55.12 | 50.62 | 446 | 2.46 | 0.35 | 24.4 |
| 4/24/2015 | 4:05:09 | 55.45 | 50.95 | 555 | 2.43 | 0.36 | 30.3 |
| 4/24/2015 | 4:05:09 | 55.77 | 51.27 | 584 | 2.46 | 0.35 | 31.9 |
| 4/24/2015 | 4:05:15 | 56.10 | 51.60 | 17 | 2.50 | 0.44 | 0.9 |
| 4/24/2015 | 4:05:16 | 56.43 | 51.93 | 264 | 2.51 | 0.35 | 14.4 |
| 4/24/2015 | 4:05:16 | 56.76 | 52.26 | 384 | 2.49 | 0.35 | 21.0 |
| 4/24/2015 | 4:05:17 | 57.09 | 52.59 | 504 | 2.59 | 0.36 | 27.6 |
| 4/24/2015 | 4:05:17 | 57.41 | 52.91 | 608 | 2.78 | 0.36 | 33.2 |
| 4/24/2015 | 4:05:18 | 57.74 | 53.24 | 550 | 2.88 | 0.37 | 30.1 |
| 4/24/2015 | 4:05:19 | 58.07 | 53.57 | 500 | 2.82 | 0.36 | 27.4 |
| 4/24/2015 | 4:05:20 | 58.40 | 53.90 | 426 | 3.23 | 0.37 | 23.3 |
| 4/24/2015 | 4:05:21 | 58.73 | 54.23 | 326 | 3.28 | 0.38 | 17.8 |
| 4/24/2015 | 4:05:23 | 59.06 | 54.56 | 274 | 3.09 | 0.38 | 15.0 |
| 4/24/2015 | 4:05:25 | 59.38 | 54.88 | 218 | 3.28 | 0.39 | 11.9 |
| 4/24/2015 | 4:05:25 | 59.43 | 54.93 | 218 | 3.28 | 0.39 | 11.9 |

## H410 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 3:59:38

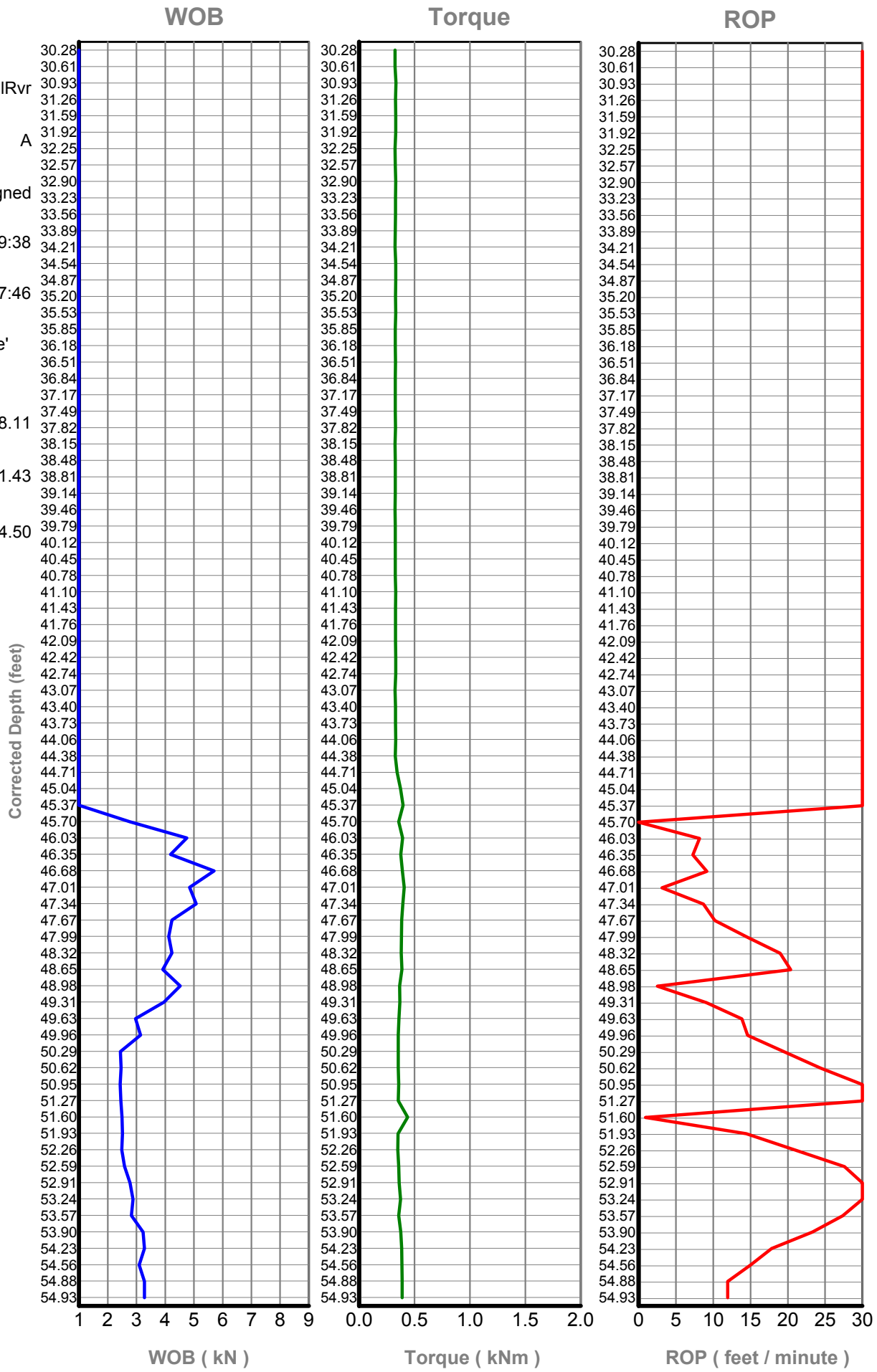
**End Date:**
4/24/2015 4:07:46

**Operator Note:**
'4.5 4.4 b Auto Complete'

**Northing:**
366,778.11

**Easting:**
251,541.43

**Tide (feet):**
4.50



## Hole: H411 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 3:46:56 | 34.45 | 30.15 | 709 | 0.90 | 0.37 | 38.8 |
| 4/24/2015 3:46:57 | 34.78 | 30.48 | 584 | 0.89 | 0.37 | 32.0 |
| 4/24/2015 3:46:58 | 35.11 | 30.81 | 505 | 0.88 | 0.37 | 27.6 |
| 4/24/2015 3:46:59 | 35.43 | 31.13 | 457 | 0.88 | 0.37 | 25.0 |
| 4/24/2015 3:46:59 | 35.76 | 31.46 | 457 | 0.88 | 0.36 | 25.0 |
| 4/24/2015 3:47:01 | 36.09 | 31.79 | 460 | 0.88 | 0.36 | 25.1 |
| 4/24/2015 3:47:01 | 36.42 | 32.12 | 457 | 0.87 | 0.37 | 25.0 |
| 4/24/2015 3:47:02 | 36.75 | 32.45 | 457 | 0.88 | 0.37 | 25.0 |
| 4/24/2015 3:47:03 | 37.07 | 32.77 | 460 | 0.88 | 0.36 | 25.1 |
| 4/24/2015 3:47:04 | 37.40 | 33.10 | 463 | 0.88 | 0.37 | 25.3 |
| 4/24/2015 3:47:04 | 37.73 | 33.43 | 463 | 0.88 | 0.36 | 25.3 |
| 4/24/2015 3:47:05 | 38.06 | 33.76 | 460 | 0.88 | 0.36 | 25.1 |
| 4/24/2015 3:47:06 | 38.39 | 34.09 | 460 | 0.88 | 0.36 | 25.1 |
| 4/24/2015 3:47:07 | 38.71 | 34.41 | 454 | 0.89 | 0.37 | 24.8 |
| 4/24/2015 3:47:07 | 39.04 | 34.74 | 460 | 0.88 | 0.36 | 25.1 |
| 4/24/2015 3:47:08 | 39.37 | 35.07 | 457 | 0.88 | 0.37 | 25.0 |
| 4/24/2015 3:47:09 | 39.70 | 35.40 | 463 | 0.87 | 0.36 | 25.3 |
| 4/24/2015 3:47:10 | 40.03 | 35.73 | 438 | 0.88 | 0.37 | 23.9 |
| 4/24/2015 3:47:11 | 40.35 | 36.05 | 438 | 0.88 | 0.37 | 23.9 |
| 4/24/2015 3:47:12 | 40.68 | 36.38 | 441 | 0.88 | 0.36 | 24.1 |
| 4/24/2015 3:47:12 | 41.01 | 36.71 | 453 | 0.88 | 0.37 | 24.8 |
| 4/24/2015 3:47:13 | 41.34 | 37.04 | 453 | 0.88 | 0.37 | 24.8 |
| 4/24/2015 3:47:14 | 41.67 | 37.37 | 453 | 0.88 | 0.37 | 24.8 |
| 4/24/2015 3:47:15 | 41.99 | 37.69 | 464 | 0.88 | 0.37 | 25.4 |
| 4/24/2015 3:47:15 | 42.32 | 38.02 | 464 | 0.87 | 0.36 | 25.4 |
| 4/24/2015 3:47:16 | 42.65 | 38.35 | 451 | 0.88 | 0.36 | 24.6 |
| 4/24/2015 3:47:17 | 42.98 | 38.68 | 451 | 0.88 | 0.36 | 24.6 |
| 4/24/2015 3:47:18 | 43.31 | 39.01 | 459 | 0.88 | 0.37 | 25.1 |
| 4/24/2015 3:47:18 | 43.64 | 39.34 | 450 | 0.87 | 0.36 | 24.6 |
| 4/24/2015 3:47:20 | 43.96 | 39.66 | 454 | 0.87 | 0.36 | 24.8 |
| 4/24/2015 3:47:20 | 44.29 | 39.99 | 452 | 0.92 | 0.30 | 24.7 |
| 4/24/2015 3:47:26 | 44.62 | 40.32 | 3 | 2.07 | 0.36 | 0.1 |
| 4/24/2015 3:47:32 | 44.95 | 40.65 | 37 | 2.82 | 0.57 | 2.0 |
| 4/24/2015 3:47:41 | 45.28 | 40.98 | 9 | 0.20 | 0.40 | 0.5 |
| 4/24/2015 3:47:59 | 45.60 | 41.30 | 17 | 4.25 | 0.38 | 0.9 |
| 4/24/2015 3:48:56 | 45.93 | 41.63 | 0 | 2.50 | 0.34 | 0.0 |
| 4/24/2015 3:48:57 | 46.26 | 41.96 | 53 | 2.80 | 0.35 | 2.9 |
| 4/24/2015 3:48:57 | 46.59 | 42.29 | 196 | 3.39 | 0.37 | 10.7 |
| 4/24/2015 3:48:58 | 46.92 | 42.62 | 196 | 3.69 | 0.38 | 10.7 |
| 4/24/2015 3:49:00 | 47.24 | 42.94 | 331 | 3.90 | 0.40 | 18.1 |
| 4/24/2015 3:49:04 | 47.57 | 43.27 | 66 | 3.05 | 0.36 | 3.6 |
| 4/24/2015 3:49:06 | 47.90 | 43.60 | 105 | 3.58 | 0.37 | 5.7 |
| 4/24/2015 3:49:09 | 48.23 | 43.93 | 183 | 8.42 | 0.41 | 10.0 |
| 4/24/2015 3:49:12 | 48.56 | 44.26 | 112 | 3.92 | 0.37 | 6.1 |
| 4/24/2015 3:49:12 | 48.88 | 44.58 | 172 | 3.94 | 0.37 | 9.4 |
| 4/24/2015 3:49:15 | 49.21 | 44.91 | 188 | 4.51 | 0.39 | 10.3 |
| 4/24/2015 3:49:24 | 49.54 | 45.24 | 29 | 4.09 | 0.38 | 1.6 |
| 4/24/2015 3:49:26 | 49.87 | 45.57 | 165 | 4.90 | 0.38 | 9.0 |
| 4/24/2015 3:49:29 | 50.20 | 45.90 | 86 | 4.02 | 0.37 | 4.7 |
| 4/24/2015 3:49:34 | 50.53 | 46.23 | 71 | 4.81 | 0.38 | 3.9 |
| 4/24/2015 3:49:35 | 50.85 | 46.55 | 164 | 3.15 | 0.36 | 9.0 |
| 4/24/2015 3:49:37 | 51.18 | 46.88 | 333 | 4.07 | 0.38 | 18.2 |
| 4/24/2015 3:49:58 | 51.51 | 47.21 | 15 | 6.01 | 0.37 | 0.8 |
| 4/24/2015 3:50:03 | 51.84 | 47.54 | 0 | 3.76 | 0.37 | 0.0 |
| 4/24/2015 3:50:04 | 52.17 | 47.87 | 118 | 3.51 | 0.38 | 6.5 |
| 4/24/2015 3:50:05 | 52.49 | 48.19 | 278 | 3.45 | 0.37 | 15.2 |
| 4/24/2015 3:50:06 | 52.82 | 48.52 | 349 | 4.45 | 0.38 | 19.1 |
| 4/24/2015 3:50:07 | 53.15 | 48.85 | 361 | 3.90 | 0.38 | 19.8 |
| 4/24/2015 3:50:33 | 53.48 | 49.18 | 26 | 4.61 | 0.39 | 1.4 |
| 4/24/2015 3:50:36 | 53.81 | 49.51 | 92 | 7.21 | 0.40 | 5.0 |
| 4/24/2015 3:50:43 | 54.13 | 49.83 | 63 | 4.95 | 0.38 | 3.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 3:50:44 | 54.46 | 50.16 | 191 | 4.24 | 0.39 | 10.5 |
| 4/24/2015 | 3:50:46 | 54.79 | 50.49 | 210 | 4.48 | 0.38 | 11.5 |
| 4/24/2015 | 3:50:48 | 55.12 | 50.82 | 215 | 3.98 | 0.38 | 11.8 |
| 4/24/2015 | 3:50:49 | 55.45 | 51.15 | 225 | 4.02 | 0.38 | 12.3 |
| 4/24/2015 | 3:50:51 | 55.77 | 51.47 | 234 | 4.97 | 0.38 | 12.8 |
| 4/24/2015 | 3:50:52 | 56.10 | 51.80 | 242 | 3.83 | 0.38 | 13.2 |
| 4/24/2015 | 3:53:16 | 56.43 | 52.13 | 12 | 3.59 | 0.37 | 0.6 |
| 4/24/2015 | 3:54:22 | 56.76 | 52.46 | 103 | 3.53 | 0.37 | 5.6 |
| 4/24/2015 | 3:54:22 | 57.09 | 52.79 | 186 | 5.26 | 0.37 | 10.2 |
| 4/24/2015 | 3:54:23 | 57.41 | 53.11 | 345 | 3.16 | 0.37 | 18.9 |
| 4/24/2015 | 3:54:25 | 57.74 | 53.44 | 338 | 2.97 | 0.39 | 18.5 |
| 4/24/2015 | 3:54:34 | 58.07 | 53.77 | 9 | 4.26 | 0.38 | 0.5 |
| 4/24/2015 | 3:54:35 | 58.40 | 54.10 | 112 | 4.17 | 0.38 | 6.1 |
| 4/24/2015 | 3:54:36 | 58.73 | 54.43 | 228 | 4.34 | 0.38 | 12.5 |
| 4/24/2015 | 3:54:37 | 59.06 | 54.76 | 286 | 3.80 | 0.38 | 15.6 |
| 4/24/2015 | 3:54:39 | 59.38 | 55.08 | 315 | 3.25 | 0.37 | 17.2 |
| 4/24/2015 | 3:54:39 | 59.56 | 55.26 | 314 | 3.46 | 0.38 | 17.2 |

## H411 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 3:42:14

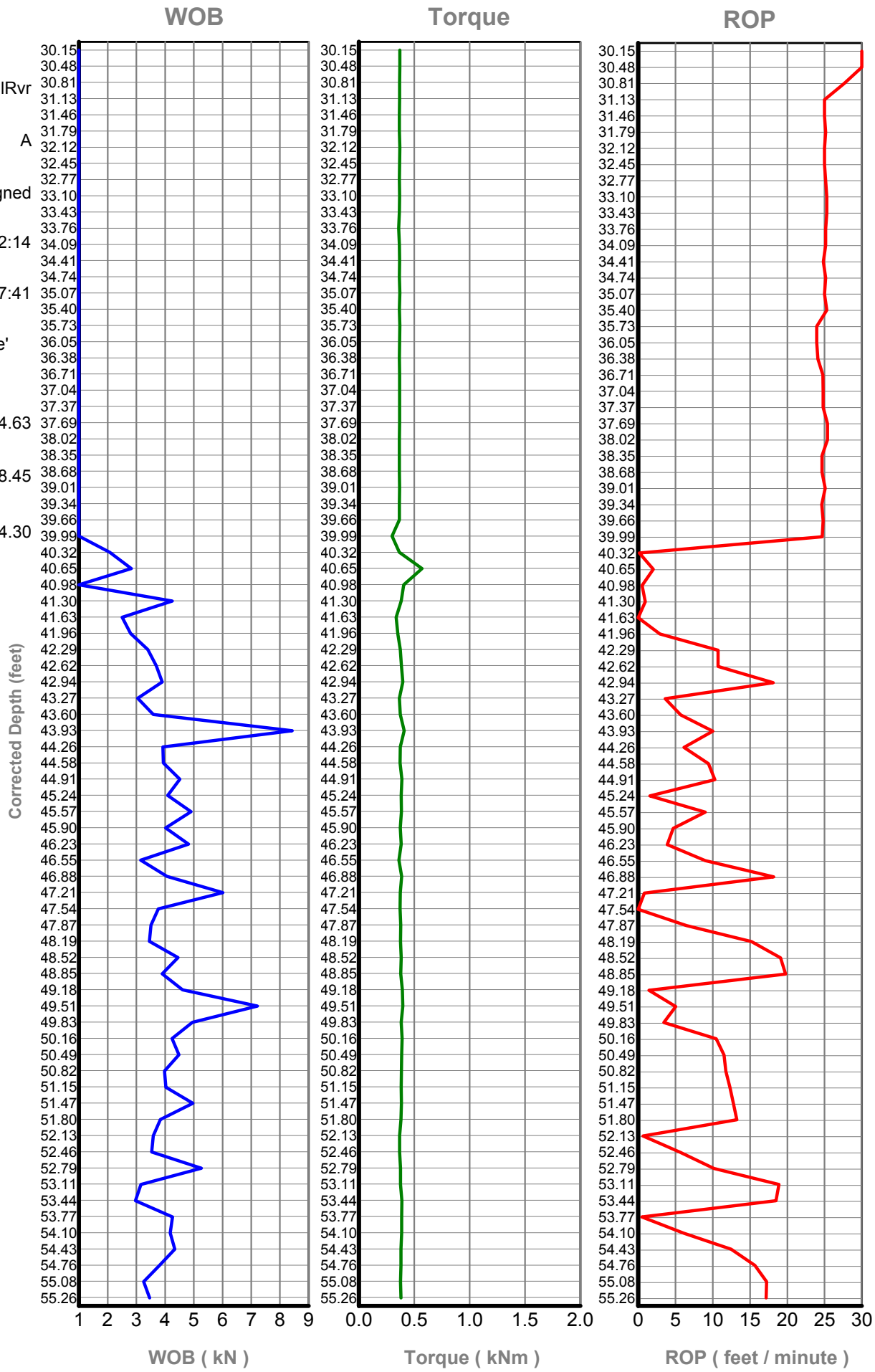
**End Date:**
4/24/2015 3:57:41

**Operator Note:**
'4.3 4.2 b Auto Complete'

**Northing:**
366,814.63

**Easting:**
251,588.45

**Tide (feet):**
4.30



## Hole: H412 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 3:46:07 | 34.45 | 30.15 | 554 | 1.99 | 0.18 | 30.3 |
| 4/24/2015 3:46:07 | 34.78 | 30.48 | 561 | 2.01 | 0.17 | 30.7 |
| 4/24/2015 3:46:08 | 35.11 | 30.81 | 552 | 2.00 | 0.17 | 30.2 |
| 4/24/2015 3:46:09 | 35.43 | 31.13 | 552 | 2.02 | 0.17 | 30.2 |
| 4/24/2015 3:46:09 | 35.76 | 31.46 | 560 | 2.00 | 0.17 | 30.6 |
| 4/24/2015 3:46:10 | 36.09 | 31.79 | 566 | 2.02 | 0.17 | 31.0 |
| 4/24/2015 3:46:10 | 36.42 | 32.12 | 563 | 2.01 | 0.17 | 30.8 |
| 4/24/2015 3:46:11 | 36.75 | 32.45 | 551 | 2.01 | 0.17 | 30.1 |
| 4/24/2015 3:46:12 | 37.07 | 32.77 | 569 | 2.01 | 0.17 | 31.1 |
| 4/24/2015 3:46:12 | 37.40 | 33.10 | 563 | 1.99 | 0.17 | 30.8 |
| 4/24/2015 3:46:13 | 37.73 | 33.43 | 566 | 2.02 | 0.17 | 31.0 |
| 4/24/2015 3:46:13 | 38.06 | 33.76 | 559 | 1.99 | 0.17 | 30.6 |
| 4/24/2015 3:46:15 | 38.39 | 34.09 | 572 | 2.02 | 0.17 | 31.3 |
| 4/24/2015 3:46:15 | 38.71 | 34.41 | 566 | 2.04 | 0.17 | 31.0 |
| 4/24/2015 3:46:16 | 39.04 | 34.74 | 566 | 2.02 | 0.17 | 31.0 |
| 4/24/2015 3:46:16 | 39.37 | 35.07 | 557 | 2.02 | 0.17 | 30.4 |
| 4/24/2015 3:46:17 | 39.70 | 35.40 | 557 | 2.00 | 0.17 | 30.4 |
| 4/24/2015 3:46:18 | 40.03 | 35.73 | 569 | 2.02 | 0.17 | 31.1 |
| 4/24/2015 3:46:18 | 40.35 | 36.05 | 569 | 2.02 | 0.18 | 31.1 |
| 4/24/2015 3:46:19 | 40.68 | 36.38 | 569 | 2.00 | 0.17 | 31.1 |
| 4/24/2015 3:46:19 | 41.01 | 36.71 | 575 | 2.00 | 0.17 | 31.4 |
| 4/24/2015 3:46:20 | 41.34 | 37.04 | 569 | 2.02 | 0.17 | 31.1 |
| 4/24/2015 3:46:21 | 41.67 | 37.37 | 566 | 2.00 | 0.17 | 30.9 |
| 4/24/2015 3:46:21 | 41.99 | 37.69 | 563 | 2.02 | 0.17 | 30.8 |
| 4/24/2015 3:46:22 | 42.32 | 38.02 | 557 | 2.01 | 0.17 | 30.4 |
| 4/24/2015 3:46:22 | 42.65 | 38.35 | 557 | 2.02 | 0.17 | 30.4 |
| 4/24/2015 3:46:23 | 42.98 | 38.68 | 562 | 2.02 | 0.17 | 30.7 |
| 4/24/2015 3:46:24 | 43.31 | 39.01 | 562 | 1.99 | 0.17 | 30.8 |
| 4/24/2015 3:46:25 | 43.64 | 39.34 | 566 | 2.02 | 0.17 | 30.9 |
| 4/24/2015 3:46:25 | 43.96 | 39.66 | 569 | 1.99 | 0.17 | 31.1 |
| 4/24/2015 3:46:26 | 44.29 | 39.99 | 567 | 2.00 | 0.17 | 31.0 |
| 4/24/2015 3:46:27 | 44.62 | 40.32 | 567 | 2.02 | 0.17 | 31.0 |
| 4/24/2015 3:46:27 | 44.95 | 40.65 | 564 | 1.98 | 0.17 | 30.8 |
| 4/24/2015 3:46:28 | 45.28 | 40.98 | 567 | 2.00 | 0.17 | 31.0 |
| 4/24/2015 3:46:28 | 45.60 | 41.30 | 564 | 2.01 | 0.17 | 30.8 |
| 4/24/2015 3:46:29 | 45.93 | 41.63 | 560 | 1.99 | 0.17 | 30.6 |
| 4/24/2015 3:46:30 | 46.26 | 41.96 | 564 | 2.00 | 0.17 | 30.8 |
| 4/24/2015 3:46:30 | 46.59 | 42.29 | 555 | 2.00 | 0.17 | 30.3 |
| 4/24/2015 3:46:31 | 46.92 | 42.62 | 555 | 2.03 | 0.17 | 30.3 |
| 4/24/2015 3:46:31 | 47.24 | 42.94 | 558 | 2.00 | 0.17 | 30.5 |
| 4/24/2015 3:46:32 | 47.57 | 43.27 | 552 | 2.00 | 0.17 | 30.2 |
| 4/24/2015 3:46:33 | 47.90 | 43.60 | 548 | 2.00 | 0.17 | 30.0 |
| 4/24/2015 3:46:34 | 48.23 | 43.93 | 564 | 2.01 | 0.17 | 30.8 |
| 4/24/2015 3:46:34 | 48.56 | 44.26 | 554 | 1.99 | 0.18 | 30.3 |
| 4/24/2015 3:46:35 | 48.88 | 44.58 | 555 | 2.00 | 0.18 | 30.3 |
| 4/24/2015 3:46:36 | 49.21 | 44.91 | 564 | 2.01 | 0.17 | 30.9 |
| 4/24/2015 3:46:36 | 49.54 | 45.24 | 567 | 2.00 | 0.17 | 31.0 |
| 4/24/2015 3:47:04 | 49.87 | 45.57 | 9 | 2.05 | 1.20 | 0.5 |
| 4/24/2015 3:47:18 | 50.20 | 45.90 | 0 | 2.01 | 1.07 | 0.0 |
| 4/24/2015 3:47:23 | 50.53 | 46.23 | 0 | 2.00 | 1.57 | 0.0 |
| 4/24/2015 3:47:24 | 50.85 | 46.55 | 93 | 1.99 | 1.19 | 5.1 |
| 4/24/2015 3:47:35 | 51.18 | 46.88 | 107 | 2.00 | 1.17 | 5.9 |
| 4/24/2015 3:47:36 | 51.51 | 47.21 | 220 | 2.02 | 1.24 | 12.1 |
| 4/24/2015 3:47:49 | 51.84 | 47.54 | 49 | 2.00 | 1.12 | 2.7 |
| 4/24/2015 3:47:50 | 52.17 | 47.87 | 112 | 2.05 | 1.09 | 6.1 |
| 4/24/2015 3:48:00 | 52.49 | 48.19 | 101 | 2.01 | 1.35 | 5.5 |
| 4/24/2015 3:48:03 | 52.82 | 48.52 | 133 | 2.01 | 1.43 | 7.3 |
| 4/24/2015 3:48:05 | 53.15 | 48.85 | 171 | 1.96 | 1.25 | 9.3 |
| 4/24/2015 3:48:14 | 53.48 | 49.18 | 0 | 1.99 | 1.27 | 0.0 |
| 4/24/2015 3:48:16 | 53.81 | 49.51 | 77 | 2.00 | 1.20 | 4.2 |
| 4/24/2015 3:48:17 | 54.13 | 49.83 | 198 | 2.03 | 1.13 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 3:48:19 | 54.46 | 50.16 | 247 | 2.00 | 1.13 | 13.5 |
| 4/24/2015 | 3:48:22 | 54.79 | 50.49 | 27 | 2.01 | 1.12 | 1.5 |
| 4/24/2015 | 3:48:33 | 55.12 | 50.82 | 57 | 2.01 | 1.25 | 3.1 |
| 4/24/2015 | 3:48:34 | 55.45 | 51.15 | 170 | 2.02 | 1.25 | 9.3 |
| 4/24/2015 | 3:48:36 | 55.77 | 51.47 | 274 | 2.02 | 1.35 | 15.0 |
| 4/24/2015 | 3:48:43 | 56.10 | 51.80 | 52 | 2.01 | 1.56 | 2.9 |
| 4/24/2015 | 3:48:52 | 56.43 | 52.13 | 0 | 2.01 | 1.42 | 0.0 |
| 4/24/2015 | 3:48:54 | 56.76 | 52.46 | 112 | 2.00 | 1.30 | 6.1 |
| 4/24/2015 | 3:48:57 | 57.09 | 52.79 | 116 | 2.02 | 1.36 | 6.3 |
| 4/24/2015 | 3:48:59 | 57.41 | 53.11 | 160 | 2.01 | 1.29 | 8.7 |
| 4/24/2015 | 3:49:02 | 57.74 | 53.44 | 171 | 2.01 | 1.30 | 9.3 |
| 4/24/2015 | 3:49:04 | 58.07 | 53.77 | 164 | 2.00 | 1.11 | 9.0 |
| 4/24/2015 | 3:49:05 | 58.40 | 54.10 | 209 | 2.01 | 1.19 | 11.4 |
| 4/24/2015 | 3:49:13 | 58.73 | 54.43 | 0 | 2.02 | 1.20 | 0.0 |
| 4/24/2015 | 3:49:15 | 59.06 | 54.76 | 129 | 2.02 | 1.21 | 7.1 |
| 4/24/2015 | 3:49:17 | 59.21 | 54.91 | 107 | 1.99 | 1.27 | 5.8 |

## H412 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 3:44:05

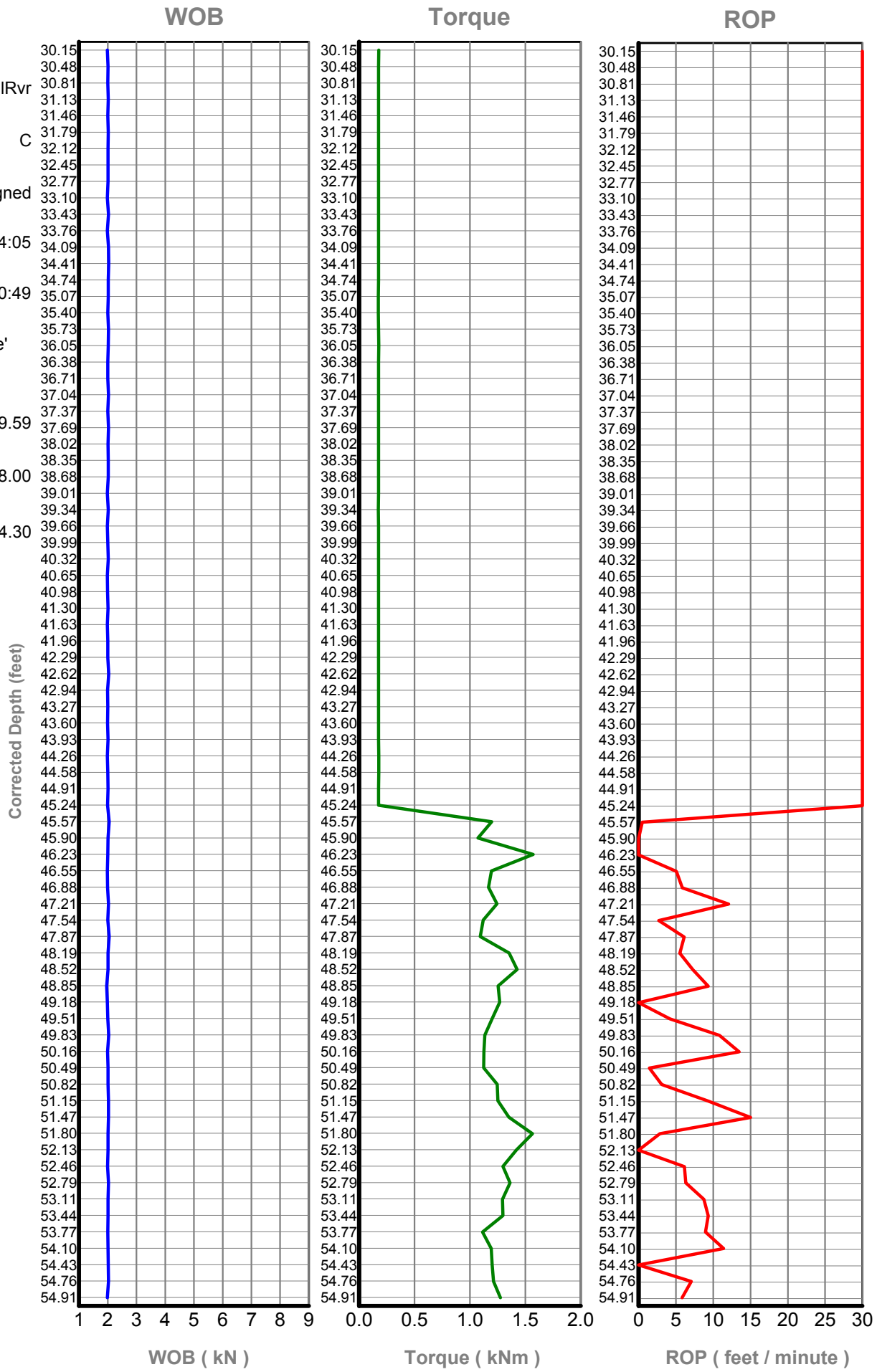
**End Date:**
4/24/2015 3:50:49

**Operator Note:**
'4.3 4.2 c Auto Complete'

**Northing:**
366,859.59

**Easting:**
251,648.00

**Tide (feet):**
4.30



## Hole: H413 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:23:42 | 34.12 | 30.02 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:23:42 | 34.45 | 30.35 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 15:23:43 | 34.78 | 30.68 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 15:23:43 | 35.11 | 31.01 | 944 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:44 | 35.43 | 31.33 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 15:23:44 | 35.76 | 31.66 | 945 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 15:23:45 | 36.09 | 31.99 | 945 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 15:23:45 | 36.42 | 32.32 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 15:23:45 | 36.75 | 32.65 | 937 | 0.38 | 0.32 | 51.2 |
| 4/23/2015 15:23:46 | 37.07 | 32.97 | 937 | 0.38 | 0.32 | 51.2 |
| 4/23/2015 15:23:46 | 37.40 | 33.30 | 952 | 0.34 | 0.32 | 52.1 |
| 4/23/2015 15:23:46 | 37.73 | 33.63 | 945 | 0.33 | 0.33 | 51.7 |
| 4/23/2015 15:23:47 | 38.06 | 33.96 | 940 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 15:23:47 | 38.39 | 34.29 | 940 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 15:23:47 | 38.71 | 34.61 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 15:23:48 | 39.04 | 34.94 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 15:23:48 | 39.37 | 35.27 | 951 | 0.35 | 0.32 | 52.0 |
| 4/23/2015 15:23:48 | 39.70 | 35.60 | 954 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 15:23:49 | 40.03 | 35.93 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 15:23:49 | 40.35 | 36.25 | 959 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:23:50 | 40.68 | 36.58 | 959 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:23:50 | 41.01 | 36.91 | 948 | 0.33 | 0.33 | 51.9 |
| 4/23/2015 15:23:50 | 41.34 | 37.24 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 15:23:51 | 41.67 | 37.57 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:23:51 | 41.99 | 37.89 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:23:51 | 42.32 | 38.22 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 15:23:52 | 42.65 | 38.55 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:23:52 | 42.98 | 38.88 | 934 | 0.33 | 0.33 | 51.1 |
| 4/23/2015 15:23:53 | 43.31 | 39.21 | 934 | 0.33 | 0.33 | 51.1 |
| 4/23/2015 15:23:53 | 43.64 | 39.54 | 926 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 15:23:53 | 43.96 | 39.86 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:54 | 44.29 | 40.19 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:54 | 44.62 | 40.52 | 943 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 15:23:55 | 44.95 | 40.85 | 946 | 0.34 | 0.32 | 51.7 |
| 4/23/2015 15:23:55 | 45.28 | 41.18 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:56 | 45.60 | 41.50 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:56 | 45.93 | 41.83 | 943 | 0.34 | 0.32 | 51.6 |
| 4/23/2015 15:23:56 | 46.26 | 42.16 | 951 | 0.34 | 0.32 | 52.0 |
| 4/23/2015 15:23:57 | 46.59 | 42.49 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:23:57 | 46.92 | 42.82 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:23:57 | 47.24 | 43.14 | 928 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:23:58 | 47.57 | 43.47 | 934 | 0.34 | 0.33 | 51.1 |
| 4/23/2015 15:23:58 | 47.90 | 43.80 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:23:59 | 48.23 | 44.13 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:23:59 | 48.56 | 44.46 | 912 | 0.33 | 0.33 | 49.9 |
| 4/23/2015 15:23:59 | 48.88 | 44.78 | 912 | 0.33 | 0.35 | 49.9 |
| 4/23/2015 15:24:12 | 49.21 | 45.11 | 29 | 4.35 | 0.39 | 1.6 |
| 4/23/2015 15:24:14 | 49.54 | 45.44 | 136 | 5.08 | 0.37 | 7.4 |
| 4/23/2015 15:24:15 | 49.87 | 45.77 | 171 | 5.08 | 0.36 | 9.4 |
| 4/23/2015 15:24:17 | 50.20 | 46.10 | 280 | 5.43 | 0.36 | 15.3 |
| 4/23/2015 15:24:22 | 50.53 | 46.43 | 44 | 3.93 | 0.37 | 2.4 |
| 4/23/2015 15:24:22 | 50.85 | 46.75 | 130 | 4.56 | 0.37 | 7.1 |
| 4/23/2015 15:24:23 | 51.18 | 47.08 | 301 | 3.48 | 0.37 | 16.5 |
| 4/23/2015 15:24:24 | 51.51 | 47.41 | 434 | 4.17 | 0.37 | 23.7 |
| 4/23/2015 15:24:39 | 51.84 | 47.74 | 57 | 2.48 | 0.35 | 3.1 |
| 4/23/2015 15:24:39 | 52.17 | 48.07 | 100 | 3.45 | 0.37 | 5.5 |
| 4/23/2015 15:24:41 | 52.49 | 48.39 | 279 | 3.37 | 0.38 | 15.3 |
| 4/23/2015 15:24:42 | 52.82 | 48.72 | 298 | 3.40 | 0.39 | 16.3 |
| 4/23/2015 15:24:44 | 53.15 | 49.05 | 153 | 3.65 | 0.40 | 8.4 |
| 4/23/2015 15:24:48 | 53.48 | 49.38 | 92 | 3.81 | 0.39 | 5.1 |
| 4/23/2015 15:24:53 | 53.81 | 49.71 | 85 | 4.24 | 0.40 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:24:57 | 54.13 | 50.03 | 87 | 4.15 | 0.40 | 4.7 |
| 4/23/2015 | 15:25:01 | 54.46 | 50.36 | 89 | 3.94 | 0.40 | 4.9 |
| 4/23/2015 | 15:25:05 | 54.79 | 50.69 | 90 | 4.12 | 0.39 | 4.9 |
| 4/23/2015 | 15:25:08 | 55.12 | 51.02 | 104 | 3.71 | 0.39 | 5.7 |
| 4/23/2015 | 15:25:10 | 55.45 | 51.35 | 156 | 3.99 | 0.39 | 8.5 |
| 4/23/2015 | 15:25:12 | 55.77 | 51.67 | 211 | 4.19 | 0.38 | 11.5 |
| 4/23/2015 | 15:25:14 | 56.10 | 52.00 | 159 | 4.34 | 0.40 | 8.7 |
| 4/23/2015 | 15:25:20 | 56.43 | 52.33 | 87 | 3.54 | 0.40 | 4.8 |
| 4/23/2015 | 15:25:22 | 56.76 | 52.66 | 122 | 4.53 | 0.39 | 6.6 |
| 4/23/2015 | 15:25:27 | 57.09 | 52.99 | 66 | 4.07 | 0.40 | 3.6 |
| 4/23/2015 | 15:25:32 | 57.41 | 53.31 | 72 | 3.76 | 0.40 | 4.0 |
| 4/23/2015 | 15:25:37 | 57.74 | 53.64 | 78 | 4.01 | 0.39 | 4.3 |
| 4/23/2015 | 15:25:42 | 58.07 | 53.97 | 78 | 3.85 | 0.40 | 4.3 |
| 4/23/2015 | 15:25:46 | 58.40 | 54.30 | 75 | 4.17 | 0.40 | 4.1 |
| 4/23/2015 | 15:25:52 | 58.73 | 54.63 | 60 | 3.96 | 0.40 | 3.3 |
| 4/23/2015 | 15:25:57 | 59.06 | 54.96 | 63 | 3.50 | 0.39 | 3.5 |
| 4/23/2015 | 15:25:57 | 59.09 | 54.99 | 67 | 4.11 | 0.40 | 3.7 |

## H413 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:21:23

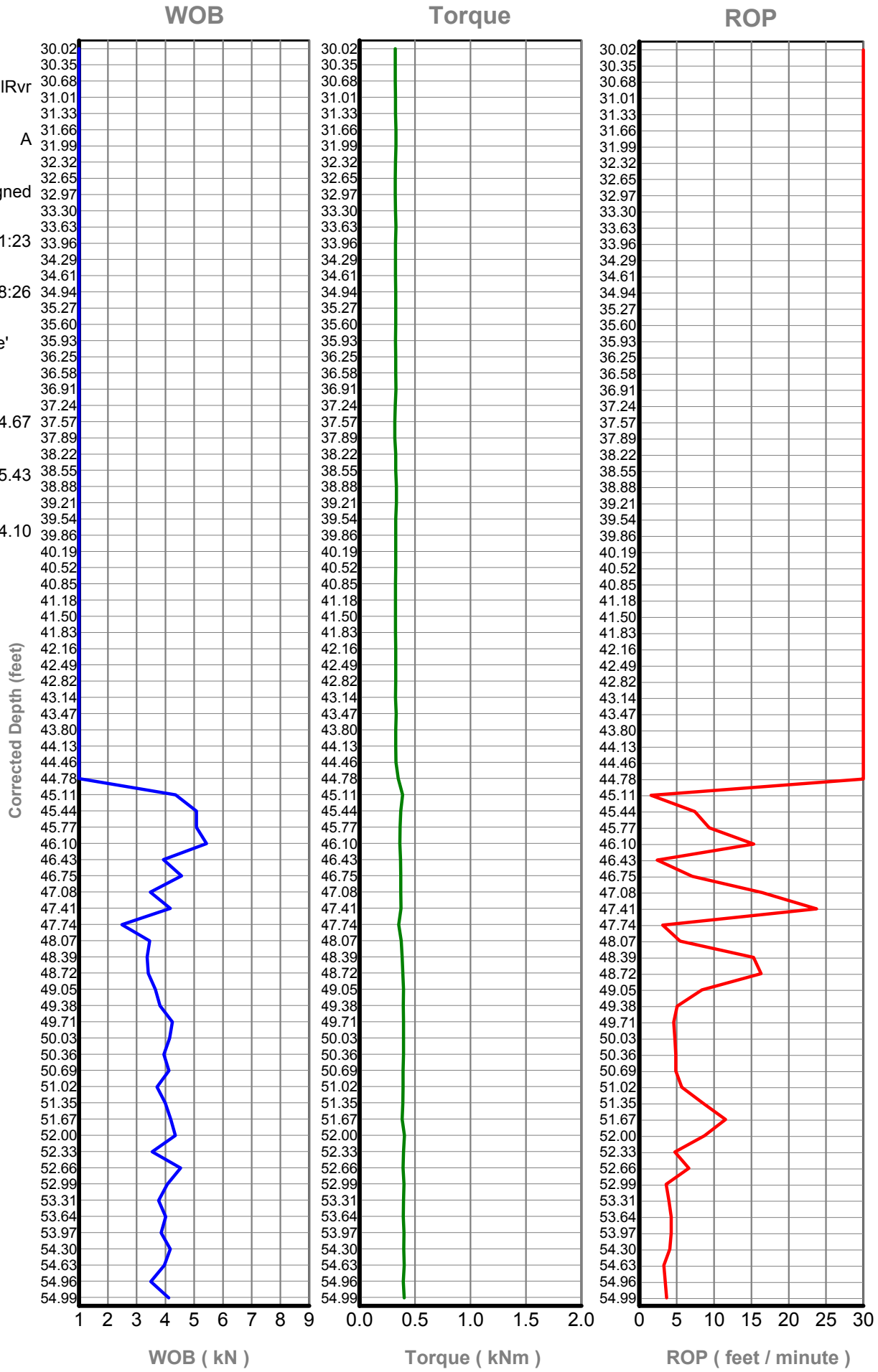
**End Date:**
4/23/2015 15:28:26

**Operator Note:**
'4.1 4.1 b Auto Complete'

**Northing:**
366,924.67

**Easting:**
251,715.43

**Tide (feet):**
4.10



## Hole: H414 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:32:20 | 34.45 | 30.05 | 925 | 0.34 | 0.33 | 50.6 |
| 4/23/2015 15:32:20 | 34.78 | 30.38 | 922 | 0.34 | 0.32 | 50.4 |
| 4/23/2015 15:32:21 | 35.11 | 30.71 | 914 | 0.34 | 0.32 | 50.0 |
| 4/23/2015 15:32:21 | 35.43 | 31.03 | 905 | 0.34 | 0.33 | 49.5 |
| 4/23/2015 15:32:22 | 35.76 | 31.36 | 905 | 0.34 | 0.33 | 49.5 |
| 4/23/2015 15:32:22 | 36.09 | 31.69 | 916 | 0.34 | 0.33 | 50.1 |
| 4/23/2015 15:32:22 | 36.42 | 32.02 | 916 | 0.35 | 0.32 | 50.1 |
| 4/23/2015 15:32:23 | 36.75 | 32.35 | 908 | 0.35 | 0.32 | 49.6 |
| 4/23/2015 15:32:23 | 37.07 | 32.67 | 908 | 0.35 | 0.32 | 49.6 |
| 4/23/2015 15:32:23 | 37.40 | 33.00 | 910 | 0.34 | 0.32 | 49.8 |
| 4/23/2015 15:32:24 | 37.73 | 33.33 | 922 | 0.35 | 0.32 | 50.4 |
| 4/23/2015 15:32:25 | 38.06 | 33.66 | 916 | 0.34 | 0.32 | 50.1 |
| 4/23/2015 15:32:25 | 38.39 | 33.99 | 916 | 0.34 | 0.32 | 50.1 |
| 4/23/2015 15:32:25 | 38.71 | 34.31 | 919 | 0.47 | 0.33 | 50.3 |
| 4/23/2015 15:32:26 | 39.04 | 34.64 | 922 | 0.33 | 0.33 | 50.4 |
| 4/23/2015 15:32:26 | 39.37 | 34.97 | 931 | 0.35 | 0.32 | 50.9 |
| 4/23/2015 15:32:27 | 39.70 | 35.30 | 931 | 0.35 | 0.32 | 50.9 |
| 4/23/2015 15:32:27 | 40.03 | 35.63 | 928 | 0.34 | 0.32 | 50.7 |
| 4/23/2015 15:32:27 | 40.35 | 35.95 | 928 | 0.35 | 0.33 | 50.7 |
| 4/23/2015 15:32:28 | 40.68 | 36.28 | 928 | 0.35 | 0.33 | 50.7 |
| 4/23/2015 15:32:28 | 41.01 | 36.61 | 928 | 0.35 | 0.33 | 50.7 |
| 4/23/2015 15:32:28 | 41.34 | 36.94 | 931 | 0.35 | 0.32 | 50.9 |
| 4/23/2015 15:32:29 | 41.67 | 37.27 | 919 | 0.34 | 0.32 | 50.3 |
| 4/23/2015 15:32:29 | 41.99 | 37.59 | 919 | 0.33 | 0.33 | 50.3 |
| 4/23/2015 15:32:30 | 42.32 | 37.92 | 919 | 0.33 | 0.33 | 50.3 |
| 4/23/2015 15:32:30 | 42.65 | 38.25 | 919 | 0.34 | 0.33 | 50.3 |
| 4/23/2015 15:32:30 | 42.98 | 38.58 | 925 | 0.34 | 0.32 | 50.6 |
| 4/23/2015 15:32:31 | 43.31 | 38.91 | 928 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:32:31 | 43.64 | 39.24 | 928 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 15:32:31 | 43.96 | 39.56 | 934 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 15:32:32 | 44.29 | 39.89 | 921 | 0.34 | 0.33 | 50.3 |
| 4/23/2015 15:32:32 | 44.62 | 40.22 | 921 | 0.34 | 0.33 | 50.3 |
| 4/23/2015 15:32:32 | 44.95 | 40.55 | 935 | 0.34 | 0.33 | 51.1 |
| 4/23/2015 15:32:33 | 45.28 | 40.88 | 935 | 0.35 | 0.32 | 51.1 |
| 4/23/2015 15:32:33 | 45.60 | 41.20 | 935 | 0.34 | 0.33 | 51.1 |
| 4/23/2015 15:32:34 | 45.93 | 41.53 | 935 | 0.34 | 0.33 | 51.1 |
| 4/23/2015 15:32:34 | 46.26 | 41.86 | 929 | 0.34 | 0.32 | 50.8 |
| 4/23/2015 15:32:34 | 46.59 | 42.19 | 939 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 15:32:35 | 46.92 | 42.52 | 927 | 0.33 | 0.33 | 50.7 |
| 4/23/2015 15:32:36 | 47.24 | 42.84 | 927 | 0.33 | 0.33 | 50.7 |
| 4/23/2015 15:32:36 | 47.57 | 43.17 | 922 | 0.34 | 0.32 | 50.4 |
| 4/23/2015 15:32:36 | 47.90 | 43.50 | 916 | 0.34 | 0.32 | 50.1 |
| 4/23/2015 15:32:37 | 48.23 | 43.83 | 922 | 0.34 | 0.32 | 50.4 |
| 4/23/2015 15:32:37 | 48.56 | 44.16 | 922 | 0.34 | 0.32 | 50.4 |
| 4/23/2015 15:32:37 | 48.88 | 44.48 | 916 | 0.34 | 0.33 | 50.1 |
| 4/23/2015 15:32:38 | 49.21 | 44.81 | 919 | 0.32 | 0.38 | 50.3 |
| 4/23/2015 15:32:44 | 49.54 | 45.14 | 44 | 4.17 | 0.38 | 2.4 |
| 4/23/2015 15:32:51 | 49.87 | 45.47 | 50 | 5.62 | 0.36 | 2.7 |
| 4/23/2015 15:32:52 | 50.20 | 45.80 | 144 | 5.93 | 0.38 | 7.9 |
| 4/23/2015 15:32:54 | 50.53 | 46.13 | 230 | 4.58 | 0.37 | 12.6 |
| 4/23/2015 15:32:56 | 50.85 | 46.45 | 207 | 4.32 | 0.37 | 11.3 |
| 4/23/2015 15:32:57 | 51.18 | 46.78 | 304 | 2.84 | 0.37 | 16.6 |
| 4/23/2015 15:32:58 | 51.51 | 47.11 | 356 | 4.00 | 0.38 | 19.5 |
| 4/23/2015 15:33:02 | 51.84 | 47.44 | 87 | 3.92 | 0.39 | 4.8 |
| 4/23/2015 15:33:08 | 52.17 | 47.77 | 60 | 3.63 | 0.40 | 3.3 |
| 4/23/2015 15:33:12 | 52.49 | 48.09 | 90 | 4.49 | 0.39 | 4.9 |
| 4/23/2015 15:33:16 | 52.82 | 48.42 | 78 | 3.20 | 0.40 | 4.3 |
| 4/23/2015 15:33:24 | 53.15 | 48.75 | 43 | 3.14 | 0.40 | 2.3 |
| 4/23/2015 15:33:28 | 53.48 | 49.08 | 84 | 3.42 | 0.40 | 4.6 |
| 4/23/2015 15:33:33 | 53.81 | 49.41 | 64 | 3.92 | 0.40 | 3.5 |
| 4/23/2015 15:33:39 | 54.13 | 49.73 | 61 | 3.49 | 0.40 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:33:45 | 54.46 | 50.06 | 43 | 3.37 | 0.40 | 2.4 |
| 4/23/2015 | 15:33:52 | 54.79 | 50.39 | 43 | 3.39 | 0.40 | 2.4 |
| 4/23/2015 | 15:33:59 | 55.12 | 50.72 | 55 | 3.13 | 0.40 | 3.0 |
| 4/23/2015 | 15:34:00 | 55.16 | 50.76 | 45 | 3.96 | 0.40 | 2.5 |

## H414 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:29:26

**End Date:**
4/23/2015 15:35:31

**Operator Note:**
'4.4 4.2b Auto Complete'

**Northing:**
366,957.41

**Easting:**
251,764.58

**Tide (feet):**
4.40



## Hole: H415 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:22:27 | 34.12 | 30.02 | 639 | 1.97 | 0.31 | 34.9 |
| 4/23/2015 15:22:28 | 34.45 | 30.35 | 632 | 1.97 | 0.31 | 34.6 |
| 4/23/2015 15:22:28 | 34.78 | 30.68 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:29 | 35.11 | 31.01 | 625 | 1.93 | 0.31 | 34.2 |
| 4/23/2015 15:22:29 | 35.43 | 31.33 | 625 | 1.98 | 0.31 | 34.2 |
| 4/23/2015 15:22:30 | 35.76 | 31.66 | 631 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:22:30 | 36.09 | 31.99 | 635 | 1.98 | 0.31 | 34.7 |
| 4/23/2015 15:22:31 | 36.42 | 32.32 | 635 | 1.74 | 0.31 | 34.7 |
| 4/23/2015 15:22:31 | 36.75 | 32.65 | 631 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:22:32 | 37.07 | 32.97 | 642 | 1.97 | 0.27 | 35.1 |
| 4/23/2015 15:22:32 | 37.40 | 33.30 | 636 | 1.96 | 0.31 | 34.8 |
| 4/23/2015 15:22:33 | 37.73 | 33.63 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:34 | 38.06 | 33.96 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:34 | 38.39 | 34.29 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:35 | 38.71 | 34.61 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:35 | 39.04 | 34.94 | 639 | 1.97 | 0.30 | 34.9 |
| 4/23/2015 15:22:36 | 39.37 | 35.27 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:37 | 39.70 | 35.60 | 636 | 1.98 | 0.30 | 34.8 |
| 4/23/2015 15:22:37 | 40.03 | 35.93 | 632 | 1.98 | 0.31 | 34.6 |
| 4/23/2015 15:22:38 | 40.35 | 36.25 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:22:38 | 40.68 | 36.58 | 633 | 1.97 | 0.31 | 34.6 |
| 4/23/2015 15:22:39 | 41.01 | 36.91 | 636 | 1.97 | 0.31 | 34.8 |
| 4/23/2015 15:22:39 | 41.34 | 37.24 | 636 | 1.98 | 0.30 | 34.8 |
| 4/23/2015 15:22:40 | 41.67 | 37.57 | 640 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 15:22:41 | 41.99 | 37.89 | 633 | 1.98 | 0.31 | 34.6 |
| 4/23/2015 15:22:41 | 42.32 | 38.22 | 616 | 1.97 | 0.31 | 33.7 |
| 4/23/2015 15:22:42 | 42.65 | 38.55 | 616 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 15:22:42 | 42.98 | 38.88 | 627 | 1.95 | 0.31 | 34.3 |
| 4/23/2015 15:22:43 | 43.31 | 39.21 | 623 | 1.99 | 0.31 | 34.0 |
| 4/23/2015 15:22:43 | 43.64 | 39.54 | 622 | 1.98 | 0.30 | 34.0 |
| 4/23/2015 15:22:44 | 43.96 | 39.86 | 627 | 1.98 | 0.30 | 34.3 |
| 4/23/2015 15:22:44 | 44.29 | 40.19 | 639 | 1.95 | 0.31 | 35.0 |
| 4/23/2015 15:22:45 | 44.62 | 40.52 | 620 | 1.98 | 0.30 | 33.9 |
| 4/23/2015 15:22:45 | 44.95 | 40.85 | 620 | 1.98 | 0.31 | 33.9 |
| 4/23/2015 15:22:46 | 45.28 | 41.18 | 624 | 1.98 | 0.31 | 34.1 |
| 4/23/2015 15:22:47 | 45.60 | 41.50 | 624 | 1.96 | 0.31 | 34.1 |
| 4/23/2015 15:22:48 | 45.93 | 41.83 | 621 | 1.97 | 0.31 | 34.0 |
| 4/23/2015 15:22:48 | 46.26 | 42.16 | 638 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 15:22:49 | 46.59 | 42.49 | 630 | 1.97 | 0.31 | 34.5 |
| 4/23/2015 15:22:49 | 46.92 | 42.82 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:22:50 | 47.24 | 43.14 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:22:50 | 47.57 | 43.47 | 630 | 1.98 | 0.30 | 34.4 |
| 4/23/2015 15:22:51 | 47.90 | 43.80 | 628 | 1.98 | 0.30 | 34.3 |
| 4/23/2015 15:22:51 | 48.23 | 44.13 | 628 | 2.00 | 0.30 | 34.3 |
| 4/23/2015 15:23:06 | 48.56 | 44.46 | 47 | 1.96 | 1.16 | 2.6 |
| 4/23/2015 15:23:07 | 48.88 | 44.78 | 196 | 1.99 | 1.46 | 10.7 |
| 4/23/2015 15:23:10 | 49.21 | 45.11 | 212 | 1.99 | 1.28 | 11.6 |
| 4/23/2015 15:23:52 | 49.54 | 45.44 | 76 | 1.98 | 1.20 | 4.1 |
| 4/23/2015 15:24:00 | 49.87 | 45.77 | 46 | 1.98 | 1.25 | 2.5 |
| 4/23/2015 15:24:07 | 50.20 | 46.10 | 49 | 1.96 | 1.23 | 2.7 |
| 4/23/2015 15:24:14 | 50.53 | 46.43 | 51 | 1.97 | 1.26 | 2.8 |
| 4/23/2015 15:24:22 | 50.85 | 46.75 | 43 | 1.98 | 1.24 | 2.4 |
| 4/23/2015 15:24:28 | 51.18 | 47.08 | 50 | 2.00 | 1.22 | 2.8 |
| 4/23/2015 15:24:36 | 51.50 | 47.40 | 43 | 1.99 | 1.54 | 2.4 |

## H415 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:20:36

**End Date:**
4/23/2015 15:26:32

**Operator Note:**
'4.1 4.1 c Auto Complete'

**Northing:**
366,998.89

**Easting:**
251,827.06

**Tide (feet):**
4.10



## Hole: H416 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:42:40 | 30.51 | 30.01 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:42:41 | 30.84 | 30.34 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:42:41 | 31.17 | 30.67 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:42:41 | 31.50 | 31.00 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:42:42 | 31.82 | 31.32 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 12:42:43 | 32.15 | 31.65 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 12:42:43 | 32.48 | 31.98 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 12:42:43 | 32.81 | 32.31 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 12:42:44 | 33.14 | 32.64 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:42:44 | 33.46 | 32.96 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:42:44 | 33.79 | 33.29 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 12:42:45 | 34.12 | 33.62 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 12:42:45 | 34.45 | 33.95 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 12:42:46 | 34.78 | 34.28 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 12:42:46 | 35.11 | 34.61 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:42:46 | 35.43 | 34.93 | 939 | 0.35 | 0.31 | 51.4 |
| 4/23/2015 12:42:47 | 35.76 | 35.26 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:42:47 | 36.09 | 35.59 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:42:47 | 36.42 | 35.92 | 939 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 12:42:48 | 36.75 | 36.25 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 12:42:48 | 37.07 | 36.57 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 12:42:49 | 37.40 | 36.90 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 12:42:49 | 37.73 | 37.23 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 12:42:49 | 38.06 | 37.56 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 12:42:50 | 38.39 | 37.89 | 931 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 12:42:50 | 38.71 | 38.21 | 929 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 12:42:50 | 39.04 | 38.54 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 12:42:51 | 39.37 | 38.87 | 939 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 12:42:51 | 39.70 | 39.20 | 939 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 12:42:51 | 40.03 | 39.53 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:42:52 | 40.35 | 39.85 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 12:42:52 | 40.68 | 40.18 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:42:53 | 41.01 | 40.51 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:42:53 | 41.34 | 40.84 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 12:42:54 | 41.67 | 41.17 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:42:54 | 41.99 | 41.49 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:42:54 | 42.32 | 41.82 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 12:42:55 | 42.65 | 42.15 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 12:42:55 | 42.98 | 42.48 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 12:42:56 | 43.31 | 42.81 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 12:42:56 | 43.64 | 43.14 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 12:42:56 | 43.96 | 43.46 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 12:42:57 | 44.29 | 43.79 | 934 | 0.31 | 0.37 | 51.1 |
| 4/23/2015 12:43:12 | 44.62 | 44.12 | 35 | 3.45 | 0.39 | 1.9 |
| 4/23/2015 12:43:23 | 44.95 | 44.45 | 38 | 2.93 | 0.39 | 2.1 |
| 4/23/2015 12:43:28 | 45.28 | 44.78 | 73 | 4.15 | 0.38 | 4.0 |
| 4/23/2015 12:43:34 | 45.60 | 45.10 | 58 | 3.51 | 0.39 | 3.2 |
| 4/23/2015 12:43:40 | 45.93 | 45.43 | 63 | 3.82 | 0.39 | 3.5 |
| 4/23/2015 12:43:45 | 46.26 | 45.76 | 76 | 4.02 | 0.38 | 4.2 |
| 4/23/2015 12:43:50 | 46.59 | 46.09 | 67 | 3.93 | 0.38 | 3.6 |
| 4/23/2015 12:43:56 | 46.92 | 46.42 | 65 | 3.28 | 0.39 | 3.6 |
| 4/23/2015 12:43:59 | 47.13 | 46.63 | 64 | 3.39 | 0.39 | 3.5 |

## H416 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:41:08

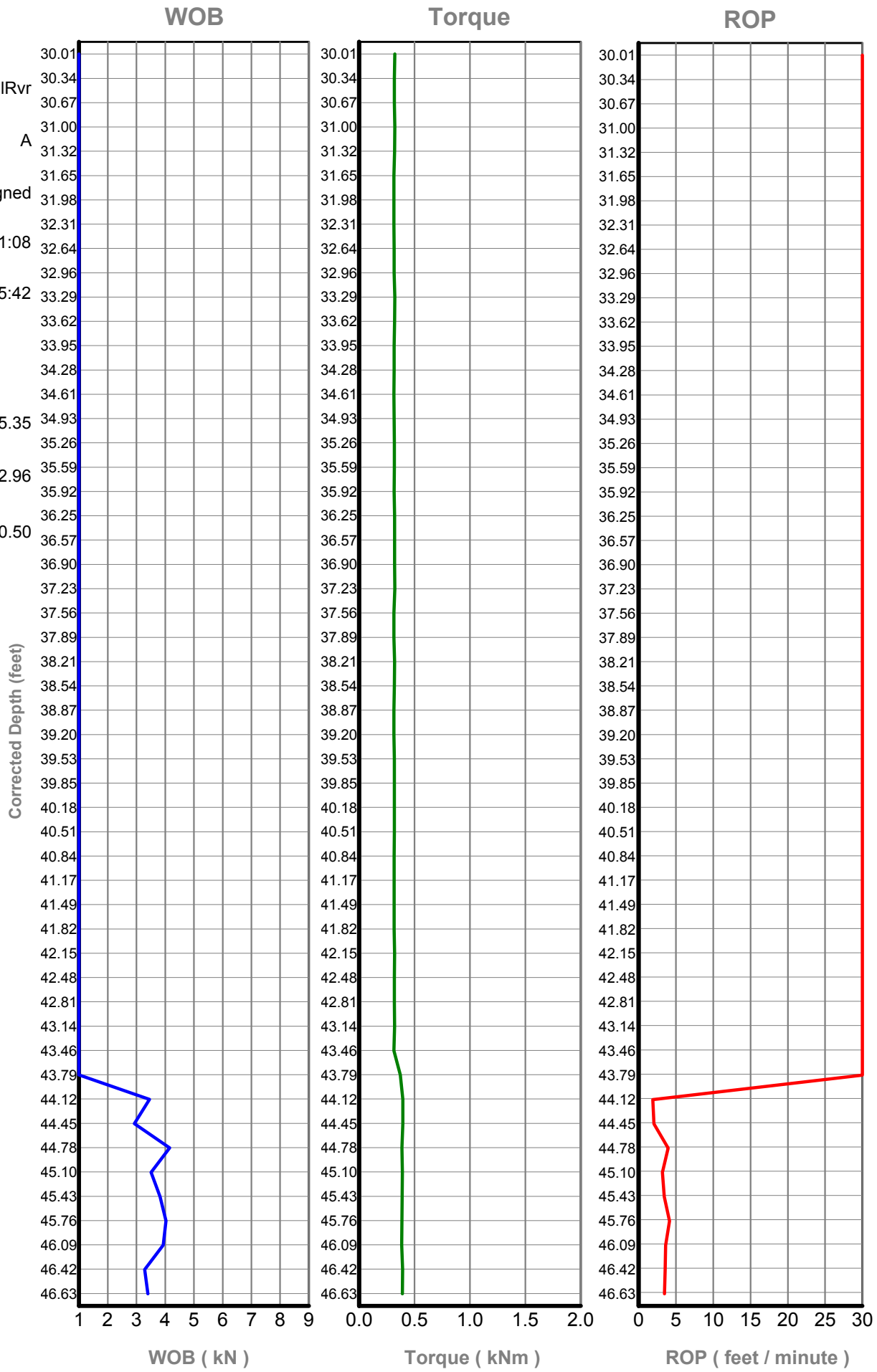
**End Date:**
4/23/2015 12:45:42

**Operator Note:**
'0.5 0.2 b Rock'

**Northing:**
367,065.35

**Easting:**
251,892.96

**Tide (feet):**
0.50



## Hole: H417 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:38:37 | 30.51 | 30.11 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 12:38:38 | 30.84 | 30.44 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:38:38 | 31.17 | 30.77 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:38:38 | 31.50 | 31.10 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 12:38:39 | 31.82 | 31.42 | 914 | 0.31 | 0.32 | 50.0 |
| 4/23/2015 12:38:39 | 32.15 | 31.75 | 914 | 0.33 | 0.31 | 50.0 |
| 4/23/2015 12:38:40 | 32.48 | 32.08 | 914 | 0.33 | 0.31 | 50.0 |
| 4/23/2015 12:38:40 | 32.81 | 32.41 | 925 | 0.32 | 0.31 | 50.6 |
| 4/23/2015 12:38:40 | 33.14 | 32.74 | 903 | 0.32 | 0.32 | 49.4 |
| 4/23/2015 12:38:41 | 33.46 | 33.06 | 903 | 0.32 | 0.32 | 49.4 |
| 4/23/2015 12:38:41 | 33.79 | 33.39 | 914 | 0.33 | 0.31 | 50.0 |
| 4/23/2015 12:38:41 | 34.12 | 33.72 | 914 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 12:38:42 | 34.45 | 34.05 | 924 | 0.32 | 0.31 | 50.5 |
| 4/23/2015 12:38:42 | 34.78 | 34.38 | 924 | 0.32 | 0.31 | 50.5 |
| 4/23/2015 12:38:43 | 35.11 | 34.71 | 956 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 12:38:43 | 35.43 | 35.03 | 913 | 0.32 | 0.32 | 49.9 |
| 4/23/2015 12:38:44 | 35.76 | 35.36 | 913 | 0.33 | 0.32 | 49.9 |
| 4/23/2015 12:38:44 | 36.09 | 35.69 | 913 | 0.33 | 0.32 | 49.9 |
| 4/23/2015 12:38:44 | 36.42 | 36.02 | 949 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 12:38:45 | 36.75 | 36.35 | 943 | 0.33 | 0.31 | 51.6 |
| 4/23/2015 12:38:45 | 37.07 | 36.67 | 943 | 0.33 | 0.31 | 51.6 |
| 4/23/2015 12:38:45 | 37.40 | 37.00 | 938 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 12:38:46 | 37.73 | 37.33 | 903 | 0.33 | 0.31 | 49.4 |
| 4/23/2015 12:38:46 | 38.06 | 37.66 | 903 | 0.33 | 0.32 | 49.4 |
| 4/23/2015 12:38:47 | 38.39 | 37.99 | 903 | 0.33 | 0.32 | 49.4 |
| 4/23/2015 12:38:47 | 38.71 | 38.31 | 943 | 0.33 | 0.29 | 51.6 |
| 4/23/2015 12:38:47 | 39.04 | 38.64 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 12:38:48 | 39.37 | 38.97 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 12:38:48 | 39.70 | 39.30 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 12:38:48 | 40.03 | 39.63 | 939 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 12:38:49 | 40.35 | 39.95 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 12:38:49 | 40.68 | 40.28 | 953 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 12:38:49 | 41.01 | 40.61 | 947 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 12:38:50 | 41.34 | 40.94 | 915 | 0.33 | 0.31 | 50.0 |
| 4/23/2015 12:38:50 | 41.67 | 41.27 | 912 | 0.32 | 0.31 | 49.9 |
| 4/23/2015 12:38:51 | 41.99 | 41.59 | 912 | 0.32 | 0.31 | 49.9 |
| 4/23/2015 12:38:51 | 42.32 | 41.92 | 912 | 0.34 | 0.31 | 49.9 |
| 4/23/2015 12:38:51 | 42.65 | 42.25 | 930 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 12:38:52 | 42.98 | 42.58 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 12:38:52 | 43.31 | 42.91 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 12:38:52 | 43.64 | 43.24 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 12:38:53 | 43.96 | 43.56 | 919 | 0.33 | 0.31 | 50.3 |
| 4/23/2015 12:38:54 | 44.29 | 43.89 | 919 | 0.33 | 0.31 | 50.3 |
| 4/23/2015 12:38:54 | 44.62 | 44.22 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:38:54 | 44.95 | 44.55 | 942 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 12:38:55 | 45.28 | 44.88 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:38:55 | 45.60 | 45.20 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 12:38:55 | 45.93 | 45.53 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 12:38:56 | 46.26 | 45.86 | 963 | 0.43 | 0.32 | 52.7 |
| 4/23/2015 12:38:56 | 46.59 | 46.19 | 954 | 0.32 | 0.34 | 52.2 |
| 4/23/2015 12:38:57 | 46.92 | 46.52 | 954 | 0.32 | 0.34 | 52.2 |
| 4/23/2015 12:39:07 | 47.24 | 46.84 | 23 | 3.43 | 0.39 | 1.3 |
| 4/23/2015 12:39:14 | 47.57 | 47.17 | 62 | 3.52 | 0.39 | 3.4 |
| 4/23/2015 12:39:19 | 47.90 | 47.50 | 82 | 3.68 | 0.38 | 4.5 |
| 4/23/2015 12:39:22 | 48.23 | 47.83 | 107 | 3.87 | 0.38 | 5.9 |
| 4/23/2015 12:39:31 | 48.56 | 48.16 | 32 | 3.27 | 0.39 | 1.7 |
| 4/23/2015 12:39:40 | 48.88 | 48.48 | 35 | 3.28 | 0.39 | 1.9 |
| 4/23/2015 12:39:49 | 49.21 | 48.81 | 39 | 3.12 | 0.40 | 2.1 |
| 4/23/2015 12:39:55 | 49.42 | 49.02 | 41 | 3.13 | 0.39 | 2.2 |

## H417 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:36:49

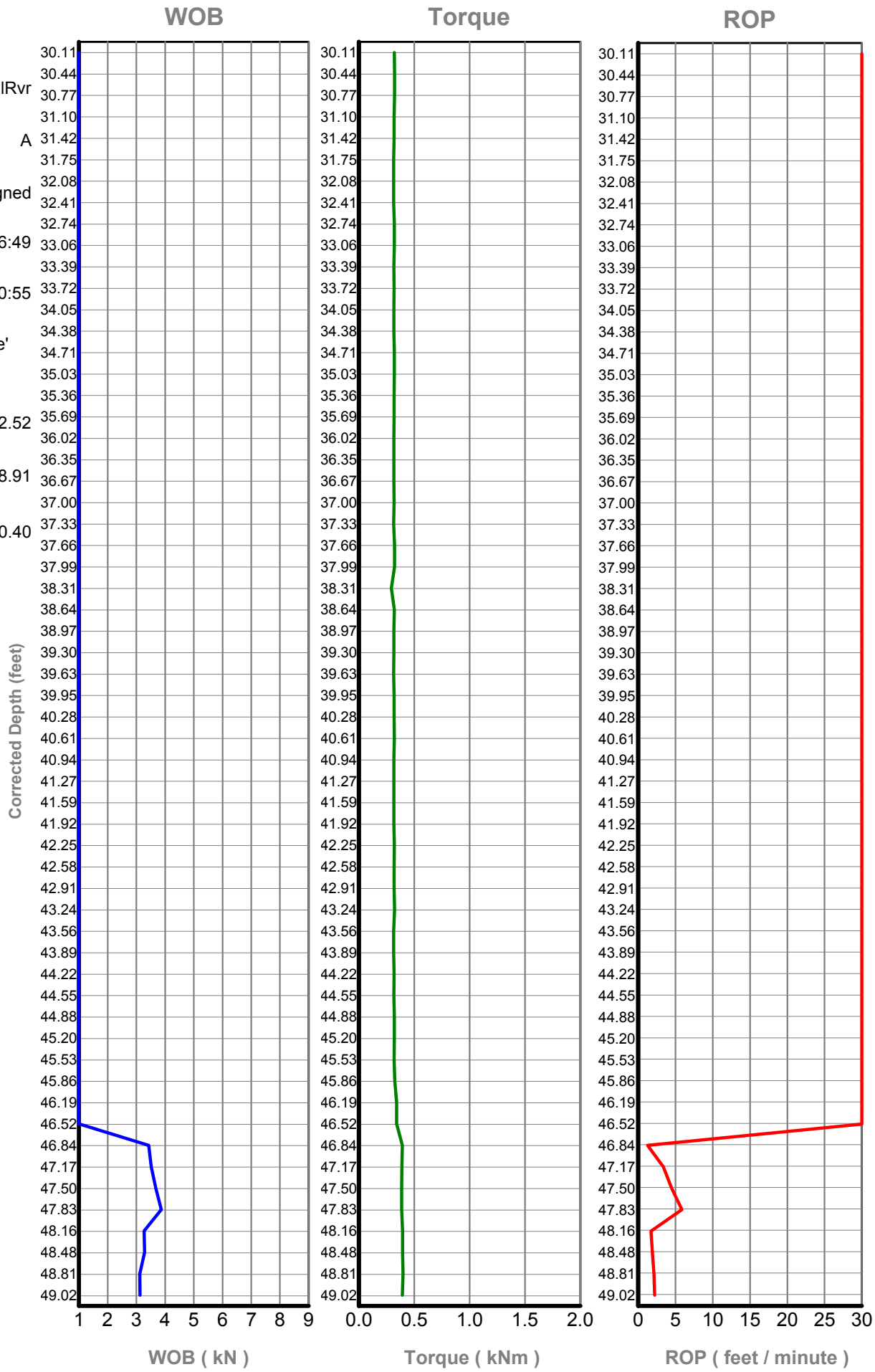
**End Date:**
4/23/2015 12:40:55

**Operator Note:**
'0.4 0.2 b Auto Complete'

**Northing:**
367,102.52

**Easting:**
251,938.91

**Tide (feet):**
0.40



## Hole: H418 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 12:40:49 | 30.51 | 30.01 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 12:40:49 | 30.84 | 30.34 | 652 | 1.99 | 0.31 | 35.7 |
| 4/23/2015 12:40:50 | 31.17 | 30.67 | 646 | 1.99 | 0.31 | 35.3 |
| 4/23/2015 12:40:50 | 31.50 | 31.00 | 658 | 1.96 | 0.31 | 36.0 |
| 4/23/2015 12:40:51 | 31.82 | 31.32 | 655 | 1.99 | 0.31 | 35.8 |
| 4/23/2015 12:40:51 | 32.15 | 31.65 | 657 | 1.98 | 0.31 | 36.0 |
| 4/23/2015 12:40:52 | 32.48 | 31.98 | 657 | 1.98 | 0.31 | 35.9 |
| 4/23/2015 12:40:52 | 32.81 | 32.31 | 661 | 1.96 | 0.31 | 36.1 |
| 4/23/2015 12:40:53 | 33.14 | 32.64 | 656 | 1.96 | 0.31 | 35.9 |
| 4/23/2015 12:40:54 | 33.46 | 32.96 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 12:40:54 | 33.79 | 33.29 | 650 | 1.97 | 0.31 | 35.6 |
| 4/23/2015 12:40:55 | 34.12 | 33.62 | 643 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 12:40:55 | 34.45 | 33.95 | 643 | 1.98 | 0.31 | 35.1 |
| 4/23/2015 12:40:56 | 34.78 | 34.28 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 12:40:56 | 35.11 | 34.61 | 651 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 12:40:57 | 35.43 | 34.93 | 651 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 12:40:57 | 35.76 | 35.26 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 12:40:58 | 36.09 | 35.59 | 657 | 1.97 | 0.31 | 35.9 |
| 4/23/2015 12:40:59 | 36.42 | 35.92 | 653 | 1.96 | 0.31 | 35.7 |
| 4/23/2015 12:40:59 | 36.75 | 36.25 | 650 | 1.96 | 0.31 | 35.5 |
| 4/23/2015 12:41:00 | 37.07 | 36.57 | 649 | 1.95 | 0.31 | 35.5 |
| 4/23/2015 12:41:00 | 37.40 | 36.90 | 656 | 1.98 | 0.31 | 35.9 |
| 4/23/2015 12:41:01 | 37.73 | 37.23 | 657 | 1.98 | 0.31 | 35.9 |
| 4/23/2015 12:41:01 | 38.06 | 37.56 | 653 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 12:41:02 | 38.39 | 37.89 | 651 | 1.96 | 0.31 | 35.6 |
| 4/23/2015 12:41:02 | 38.71 | 38.21 | 657 | 2.00 | 0.31 | 36.0 |
| 4/23/2015 12:41:03 | 39.04 | 38.54 | 650 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 12:41:03 | 39.37 | 38.87 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 12:41:04 | 39.70 | 39.20 | 650 | 1.96 | 0.31 | 35.6 |
| 4/23/2015 12:41:05 | 40.03 | 39.53 | 650 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 12:41:05 | 40.35 | 39.85 | 648 | 1.96 | 0.31 | 35.4 |
| 4/23/2015 12:41:06 | 40.68 | 40.18 | 650 | 1.97 | 0.30 | 35.6 |
| 4/23/2015 12:41:06 | 41.01 | 40.51 | 650 | 1.97 | 0.30 | 35.6 |
| 4/23/2015 12:41:07 | 41.34 | 40.84 | 650 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 12:41:07 | 41.67 | 41.17 | 650 | 1.97 | 0.30 | 35.6 |
| 4/23/2015 12:41:08 | 41.99 | 41.49 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 12:41:09 | 42.32 | 41.82 | 650 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 12:41:10 | 42.65 | 42.15 | 647 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 12:41:11 | 42.98 | 42.48 | 647 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 12:41:10 | 43.31 | 42.81 | 642 | 1.96 | 0.30 | 35.1 |
| 4/23/2015 12:41:11 | 43.64 | 43.14 | 642 | 1.98 | 0.30 | 35.1 |
| 4/23/2015 12:41:11 | 43.96 | 43.46 | 646 | 1.98 | 0.30 | 35.3 |
| 4/23/2015 12:41:12 | 44.29 | 43.79 | 650 | 1.97 | 0.30 | 35.5 |
| 4/23/2015 12:41:12 | 44.62 | 44.12 | 647 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 12:41:13 | 44.95 | 44.45 | 646 | 1.97 | 0.30 | 35.3 |
| 4/23/2015 12:41:13 | 45.28 | 44.78 | 655 | 1.95 | 0.30 | 35.8 |
| 4/23/2015 12:41:14 | 45.60 | 45.10 | 641 | 1.98 | 0.30 | 35.0 |
| 4/23/2015 12:41:15 | 45.93 | 45.43 | 648 | 1.96 | 0.30 | 35.4 |
| 4/23/2015 12:41:15 | 46.26 | 45.76 | 648 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 12:41:16 | 46.59 | 46.09 | 648 | 1.97 | 0.30 | 35.4 |
| 4/23/2015 12:41:16 | 46.92 | 46.42 | 645 | 1.93 | 0.30 | 35.3 |
| 4/23/2015 12:41:17 | 47.24 | 46.74 | 625 | 1.98 | 0.30 | 34.2 |
| 4/23/2015 12:41:32 | 47.57 | 47.07 | 0 | 1.97 | 1.15 | 0.0 |
| 4/23/2015 12:41:33 | 47.90 | 47.40 | 200 | 2.00 | 1.10 | 10.9 |
| 4/23/2015 12:41:34 | 48.23 | 47.73 | 306 | 1.97 | 1.13 | 16.7 |
| 4/23/2015 12:41:35 | 48.56 | 48.06 | 509 | 2.00 | 1.13 | 27.8 |
| 4/23/2015 12:41:35 | 48.88 | 48.38 | 512 | 1.96 | 1.08 | 28.0 |
| 4/23/2015 12:41:36 | 49.21 | 48.71 | 501 | 2.02 | 1.11 | 27.4 |
| 4/23/2015 12:41:37 | 49.54 | 49.04 | 500 | 1.97 | 1.09 | 27.4 |
| 4/23/2015 12:41:37 | 49.87 | 49.37 | 495 | 1.97 | 1.18 | 27.0 |
| 4/23/2015 12:41:38 | 50.20 | 49.70 | 471 | 1.98 | 1.09 | 25.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 12:41:39 | 50.53 | 50.03 | 467 | 1.98 | 1.09 | 25.5 |
| 4/23/2015 | 12:41:41 | 50.85 | 50.35 | 288 | 1.99 | 1.17 | 15.8 |
| 4/23/2015 | 12:41:44 | 51.18 | 50.68 | 84 | 1.97 | 1.19 | 4.6 |
| 4/23/2015 | 12:41:55 | 51.51 | 51.01 | 34 | 1.97 | 1.36 | 1.8 |
| 4/23/2015 | 12:42:02 | 51.84 | 51.34 | 43 | 1.98 | 1.19 | 2.4 |
| 4/23/2015 | 12:42:09 | 52.17 | 51.67 | 40 | 1.99 | 1.13 | 2.2 |
| 4/23/2015 | 12:42:18 | 52.49 | 51.99 | 37 | 2.00 | 1.16 | 2.0 |
| 4/23/2015 | 12:42:28 | 52.82 | 52.32 | 32 | 1.98 | 1.06 | 1.7 |
| 4/23/2015 | 12:42:38 | 53.15 | 52.65 | 40 | 1.98 | 1.18 | 2.2 |
| 4/23/2015 | 12:42:43 | 53.48 | 52.98 | 66 | 1.98 | 1.22 | 3.6 |
| 4/23/2015 | 12:42:52 | 53.81 | 53.31 | 35 | 1.98 | 1.17 | 1.9 |
| 4/23/2015 | 12:43:04 | 54.13 | 53.63 | 29 | 1.98 | 1.14 | 1.6 |
| 4/23/2015 | 12:43:12 | 54.46 | 53.96 | 43 | 1.98 | 1.10 | 2.4 |

## H418 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 12:39:21

**End Date:**
4/23/2015 12:44:55

**Operator Note:**
'0.5 .2 C Auto Complete'

**Northing:**
367,149.57

**Easting:**
251,997.32

**Tide (feet):**
0.50



## Hole: H419 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:08:24 | 34.45 | 30.05 | 1,043 | 0.38 | 0.33 | 57.0 |
| 4/26/2015 17:08:25 | 34.78 | 30.38 | 1,052 | 0.38 | 0.33 | 57.5 |
| 4/26/2015 17:08:25 | 35.11 | 30.71 | 1,052 | 0.38 | 0.33 | 57.5 |
| 4/26/2015 17:08:25 | 35.43 | 31.03 | 1,049 | 0.38 | 0.33 | 57.4 |
| 4/26/2015 17:08:26 | 35.76 | 31.36 | 1,049 | 0.37 | 0.34 | 57.4 |
| 4/26/2015 17:08:26 | 36.09 | 31.69 | 1,049 | 0.37 | 0.34 | 57.4 |
| 4/26/2015 17:08:26 | 36.42 | 32.02 | 1,035 | 0.37 | 0.34 | 56.6 |
| 4/26/2015 17:08:27 | 36.75 | 32.35 | 1,035 | 0.37 | 0.34 | 56.6 |
| 4/26/2015 17:08:27 | 37.07 | 32.67 | 1,048 | 0.37 | 0.34 | 57.3 |
| 4/26/2015 17:08:27 | 37.40 | 33.00 | 1,012 | 0.36 | 0.34 | 55.4 |
| 4/26/2015 17:08:28 | 37.73 | 33.33 | 1,012 | 0.36 | 0.34 | 55.4 |
| 4/26/2015 17:08:28 | 38.06 | 33.66 | 1,012 | 0.36 | 0.33 | 55.4 |
| 4/26/2015 17:08:28 | 38.39 | 33.99 | 1,030 | 0.36 | 0.34 | 56.3 |
| 4/26/2015 17:08:29 | 38.71 | 34.31 | 1,030 | 0.36 | 0.34 | 56.3 |
| 4/26/2015 17:08:29 | 39.04 | 34.64 | 1,026 | 0.37 | 0.34 | 56.1 |
| 4/26/2015 17:08:29 | 39.37 | 34.97 | 1,021 | 0.37 | 0.34 | 55.8 |
| 4/26/2015 17:08:30 | 39.70 | 35.30 | 1,021 | 0.37 | 0.34 | 55.8 |
| 4/26/2015 17:08:30 | 40.03 | 35.63 | 1,021 | 0.36 | 0.34 | 55.8 |
| 4/26/2015 17:08:31 | 40.35 | 35.95 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/26/2015 17:08:31 | 40.68 | 36.28 | 1,013 | 0.29 | 0.32 | 55.4 |
| 4/26/2015 17:08:31 | 41.01 | 36.61 | 1,038 | 0.28 | 0.31 | 56.8 |
| 4/26/2015 17:08:32 | 41.34 | 36.94 | 1,038 | 0.23 | 0.31 | 56.8 |
| 4/26/2015 17:08:32 | 41.67 | 37.27 | 1,038 | 0.23 | 0.31 | 56.8 |
| 4/26/2015 17:08:32 | 41.99 | 37.59 | 1,047 | 0.27 | 0.31 | 57.2 |
| 4/26/2015 17:08:33 | 42.32 | 37.92 | 1,020 | 0.27 | 0.31 | 55.8 |
| 4/26/2015 17:08:33 | 42.65 | 38.25 | 1,020 | 0.27 | 0.31 | 55.8 |
| 4/26/2015 17:08:33 | 42.98 | 38.58 | 1,020 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 17:08:34 | 43.31 | 38.91 | 1,020 | 0.30 | 0.31 | 55.8 |
| 4/26/2015 17:08:34 | 43.64 | 39.24 | 1,068 | 0.29 | 0.30 | 58.4 |
| 4/26/2015 17:08:34 | 43.96 | 39.56 | 1,076 | 0.23 | 0.31 | 58.8 |
| 4/26/2015 17:08:35 | 44.29 | 39.89 | 1,076 | 0.23 | 0.31 | 58.8 |
| 4/26/2015 17:08:35 | 44.62 | 40.22 | 1,082 | 0.26 | 0.33 | 59.2 |
| 4/26/2015 17:08:35 | 44.95 | 40.55 | 1,054 | 0.26 | 0.30 | 57.6 |
| 4/26/2015 17:08:36 | 45.28 | 40.88 | 1,054 | 0.26 | 0.30 | 57.6 |
| 4/26/2015 17:08:36 | 45.60 | 41.20 | 1,054 | 0.27 | 0.31 | 57.6 |
| 4/26/2015 17:08:36 | 45.93 | 41.53 | 1,077 | 0.27 | 0.32 | 58.9 |
| 4/26/2015 17:08:37 | 46.26 | 41.86 | 1,077 | 0.27 | 0.32 | 58.9 |
| 4/26/2015 17:08:37 | 46.59 | 42.19 | 1,077 | 0.27 | 0.31 | 58.9 |
| 4/26/2015 17:08:38 | 46.92 | 42.52 | 1,077 | 0.27 | 0.31 | 58.9 |
| 4/26/2015 17:08:37 | 47.24 | 42.84 | 1,054 | 0.26 | 0.28 | 57.6 |
| 4/26/2015 17:08:38 | 47.57 | 43.17 | 1,054 | 0.26 | 0.31 | 57.6 |
| 4/26/2015 17:08:38 | 47.90 | 43.50 | 1,054 | 0.26 | 0.31 | 57.6 |
| 4/26/2015 17:08:38 | 48.23 | 43.83 | 1,071 | 0.26 | 0.29 | 58.6 |
| 4/26/2015 17:08:39 | 48.56 | 44.16 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/26/2015 17:08:40 | 48.88 | 44.48 | 1,072 | 0.26 | 0.31 | 58.6 |
| 4/26/2015 17:08:40 | 49.21 | 44.81 | 1,063 | 0.26 | 0.31 | 58.1 |
| 4/26/2015 17:08:40 | 49.54 | 45.14 | 1,061 | 0.26 | 0.31 | 58.0 |
| 4/26/2015 17:08:41 | 49.87 | 45.47 | 1,061 | 0.26 | 0.31 | 58.0 |
| 4/26/2015 17:08:41 | 50.20 | 45.80 | 1,051 | 0.26 | 0.31 | 57.5 |
| 4/26/2015 17:08:41 | 50.53 | 46.13 | 1,051 | 0.26 | 0.31 | 57.5 |
| 4/26/2015 17:08:41 | 50.85 | 46.45 | 1,041 | 0.26 | 0.31 | 56.9 |
| 4/26/2015 17:08:42 | 51.18 | 46.78 | 1,041 | 0.26 | 0.32 | 56.9 |
| 4/26/2015 17:08:42 | 51.51 | 47.11 | 1,041 | 0.26 | 0.32 | 56.9 |
| 4/26/2015 17:08:45 | 51.84 | 47.44 | 501 | 3.09 | 0.36 | 27.4 |
| 4/26/2015 17:08:46 | 52.17 | 47.77 | 148 | 4.05 | 0.38 | 8.1 |
| 4/26/2015 17:08:48 | 52.49 | 48.09 | 163 | 4.79 | 0.38 | 8.9 |
| 4/26/2015 17:08:49 | 52.82 | 48.42 | 230 | 3.60 | 0.38 | 12.6 |
| 4/26/2015 17:08:53 | 53.15 | 48.75 | 48 | 3.51 | 0.38 | 2.6 |
| 4/26/2015 17:08:57 | 53.48 | 49.08 | 93 | 3.21 | 0.37 | 5.1 |
| 4/26/2015 17:08:57 | 53.81 | 49.41 | 93 | 3.84 | 0.37 | 5.1 |
| 4/26/2015 17:08:58 | 54.13 | 49.73 | 233 | 2.69 | 0.36 | 12.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:08:59 | 54.46 | 50.06 | 324 | 3.26 | 0.36 | 17.7 |
| 4/26/2015 | 17:09:10 | 54.79 | 50.39 | 110 | 3.14 | 0.39 | 6.0 |
| 4/26/2015 | 17:09:11 | 55.12 | 50.72 | 194 | 3.05 | 0.36 | 10.6 |
| 4/26/2015 | 17:09:13 | 55.45 | 51.05 | 269 | 3.45 | 0.37 | 14.7 |
| 4/26/2015 | 17:09:13 | 55.77 | 51.37 | 326 | 3.31 | 0.36 | 17.8 |
| 4/26/2015 | 17:09:23 | 56.10 | 51.70 | 0 | 3.62 | 0.37 | 0.0 |
| 4/26/2015 | 17:09:25 | 56.43 | 52.03 | 138 | 6.54 | 0.38 | 7.6 |
| 4/26/2015 | 17:09:36 | 56.76 | 52.36 | 101 | 4.21 | 0.38 | 5.5 |
| 4/26/2015 | 17:09:37 | 57.09 | 52.69 | 229 | 2.65 | 0.37 | 12.5 |
| 4/26/2015 | 17:09:37 | 57.41 | 53.01 | 310 | 1.70 | 0.34 | 16.9 |
| 4/26/2015 | 17:09:43 | 57.74 | 53.34 | 0 | 1.81 | 0.33 | 0.0 |
| 4/26/2015 | 17:09:44 | 58.07 | 53.67 | 71 | 1.87 | 0.34 | 3.9 |
| 4/26/2015 | 17:09:44 | 58.40 | 54.00 | 228 | 1.83 | 0.35 | 12.5 |
| 4/26/2015 | 17:09:45 | 58.73 | 54.33 | 362 | 1.87 | 0.34 | 19.8 |
| 4/26/2015 | 17:09:45 | 59.06 | 54.66 | 517 | 1.69 | 0.34 | 28.3 |
| 4/26/2015 | 17:09:46 | 59.38 | 54.98 | 517 | 1.83 | 0.35 | 28.3 |
| 4/26/2015 | 17:09:46 | 59.71 | 55.31 | 674 | 1.87 | 0.36 | 36.9 |
| 4/26/2015 | 17:09:47 | 60.04 | 55.64 | 727 | 2.31 | 0.37 | 39.8 |
| 4/26/2015 | 17:09:47 | 60.21 | 55.81 | 727 | 2.31 | 0.37 | 39.8 |

## H419 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:06:46

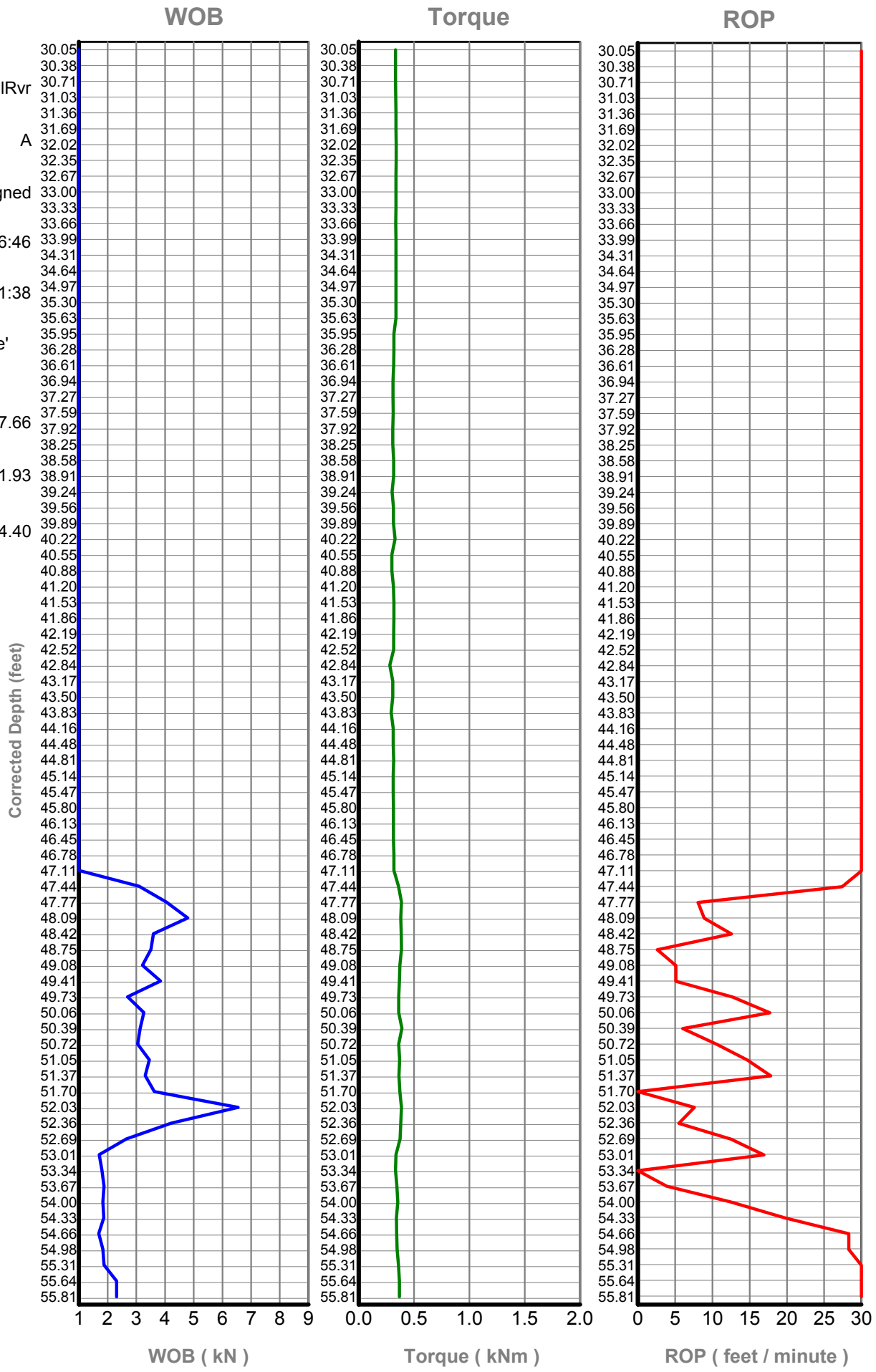
**End Date:**
4/26/2015 17:11:38

**Operator Note:**
'4.4 3.9 b Auto Complete'

**Northing:**
365,447.66

**Easting:**
250,011.93

**Tide (feet):**
4.40



## Hole: H42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:31:30 | 30.84 | 30.04 | 624 | 2.00 | 0.17 | 34.1 |
| 4/23/2015 22:31:30 | 31.17 | 30.37 | 621 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:31:31 | 31.50 | 30.70 | 625 | 2.01 | 0.17 | 34.2 |
| 4/23/2015 22:31:31 | 31.82 | 31.02 | 621 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:31:32 | 32.15 | 31.35 | 621 | 1.98 | 0.17 | 34.0 |
| 4/23/2015 22:31:33 | 32.48 | 31.68 | 621 | 2.02 | 0.17 | 34.0 |
| 4/23/2015 22:31:33 | 32.81 | 32.01 | 618 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:31:34 | 33.14 | 32.34 | 621 | 2.01 | 0.17 | 34.0 |
| 4/23/2015 22:31:35 | 33.46 | 32.66 | 621 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:31:35 | 33.79 | 32.99 | 621 | 1.98 | 0.17 | 34.0 |
| 4/23/2015 22:31:36 | 34.12 | 33.32 | 621 | 2.01 | 0.17 | 34.0 |
| 4/23/2015 22:31:36 | 34.45 | 33.65 | 621 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:31:37 | 34.78 | 33.98 | 621 | 2.01 | 0.17 | 34.0 |
| 4/23/2015 22:31:38 | 35.11 | 34.31 | 612 | 2.00 | 0.17 | 33.4 |
| 4/23/2015 22:31:39 | 35.43 | 34.63 | 622 | 2.03 | 0.17 | 34.0 |
| 4/23/2015 22:31:40 | 35.76 | 34.96 | 622 | 2.03 | 0.17 | 34.0 |
| 4/23/2015 22:31:39 | 36.09 | 35.29 | 621 | 2.02 | 0.17 | 34.0 |
| 4/23/2015 22:31:40 | 36.42 | 35.62 | 620 | 2.02 | 0.17 | 33.9 |
| 4/23/2015 22:31:40 | 36.75 | 35.95 | 620 | 2.01 | 0.17 | 33.9 |
| 4/23/2015 22:31:41 | 37.07 | 36.27 | 627 | 2.02 | 0.17 | 34.3 |
| 4/23/2015 22:31:41 | 37.40 | 36.60 | 617 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 22:31:42 | 37.73 | 36.93 | 618 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:31:42 | 38.06 | 37.26 | 619 | 2.01 | 0.17 | 33.8 |
| 4/23/2015 22:31:43 | 38.39 | 37.59 | 622 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:31:44 | 38.71 | 37.91 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:31:45 | 39.04 | 38.24 | 622 | 2.01 | 0.17 | 34.0 |
| 4/23/2015 22:31:45 | 39.37 | 38.57 | 619 | 1.99 | 0.17 | 33.8 |
| 4/23/2015 22:31:46 | 39.70 | 38.90 | 615 | 2.00 | 0.17 | 33.6 |
| 4/23/2015 22:31:46 | 40.03 | 39.23 | 615 | 2.00 | 0.17 | 33.6 |
| 4/23/2015 22:31:47 | 40.35 | 39.55 | 622 | 2.02 | 0.17 | 34.0 |
| 4/23/2015 22:31:47 | 40.68 | 39.88 | 619 | 2.01 | 0.17 | 33.8 |
| 4/23/2015 22:31:48 | 41.01 | 40.21 | 619 | 1.98 | 0.17 | 33.8 |
| 4/23/2015 22:31:49 | 41.34 | 40.54 | 622 | 1.98 | 0.17 | 34.0 |
| 4/23/2015 22:31:49 | 41.67 | 40.87 | 619 | 1.95 | 0.17 | 33.8 |
| 4/23/2015 22:31:50 | 41.99 | 41.19 | 618 | 2.02 | 0.20 | 33.8 |
| 4/23/2015 22:31:50 | 42.32 | 41.52 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:31:51 | 42.65 | 41.85 | 622 | 2.01 | 0.17 | 34.0 |
| 4/23/2015 22:31:51 | 42.98 | 42.18 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:31:52 | 43.31 | 42.51 | 616 | 2.02 | 0.17 | 33.7 |
| 4/23/2015 22:31:52 | 43.64 | 42.84 | 613 | 2.00 | 0.17 | 33.5 |
| 4/23/2015 22:31:53 | 43.96 | 43.16 | 602 | 1.97 | 0.17 | 32.9 |
| 4/23/2015 22:31:54 | 44.29 | 43.49 | 610 | 2.01 | 0.17 | 33.4 |
| 4/23/2015 22:31:55 | 44.62 | 43.82 | 607 | 2.02 | 0.17 | 33.2 |
| 4/23/2015 22:31:55 | 44.95 | 44.15 | 609 | 2.02 | 0.17 | 33.3 |
| 4/23/2015 22:31:56 | 45.28 | 44.48 | 613 | 2.00 | 0.17 | 33.5 |
| 4/23/2015 22:31:56 | 45.60 | 44.80 | 620 | 1.98 | 0.17 | 33.9 |
| 4/23/2015 22:31:57 | 45.93 | 45.13 | 609 | 2.00 | 0.17 | 33.3 |
| 4/23/2015 22:31:57 | 46.26 | 45.46 | 613 | 2.01 | 0.11 | 33.5 |
| 4/23/2015 22:31:58 | 46.59 | 45.79 | 610 | 2.00 | 0.17 | 33.4 |
| 4/23/2015 22:31:59 | 46.92 | 46.12 | 613 | 2.01 | 0.17 | 33.5 |
| 4/23/2015 22:31:59 | 47.24 | 46.44 | 619 | 2.01 | 0.17 | 33.8 |
| 4/23/2015 22:32:00 | 47.57 | 46.77 | 616 | 2.01 | 0.17 | 33.7 |
| 4/23/2015 22:32:00 | 47.90 | 47.10 | 616 | 2.02 | 0.17 | 33.7 |
| 4/23/2015 22:32:01 | 48.23 | 47.43 | 612 | 2.00 | 0.17 | 33.5 |
| 4/23/2015 22:32:01 | 48.56 | 47.76 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:32:02 | 48.88 | 48.08 | 613 | 2.00 | 0.17 | 33.5 |
| 4/23/2015 22:32:02 | 49.21 | 48.41 | 609 | 2.02 | 0.17 | 33.3 |
| 4/23/2015 22:32:03 | 49.54 | 48.74 | 613 | 2.01 | 0.17 | 33.5 |
| 4/23/2015 22:32:04 | 49.87 | 49.07 | 610 | 1.99 | 0.17 | 33.4 |
| 4/23/2015 22:32:05 | 50.20 | 49.40 | 595 | 2.03 | 0.17 | 32.5 |
| 4/23/2015 22:32:05 | 50.53 | 49.73 | 587 | 2.02 | 0.17 | 32.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:32:06 | 50.85 | 50.05 | 582 | 2.00 | 0.17 | 31.8 |
| 4/23/2015 | 22:32:07 | 51.18 | 50.38 | 547 | 1.97 | 0.17 | 29.9 |
| 4/23/2015 | 22:32:07 | 51.51 | 50.71 | 545 | 1.99 | 0.17 | 29.8 |
| 4/23/2015 | 22:32:08 | 51.84 | 51.04 | 533 | 2.00 | 0.17 | 29.1 |
| 4/23/2015 | 22:32:09 | 52.17 | 51.37 | 497 | 1.98 | 0.17 | 27.2 |
| 4/23/2015 | 22:32:12 | 52.49 | 51.69 | 44 | 2.00 | 0.17 | 2.4 |
| 4/23/2015 | 22:32:13 | 52.82 | 52.02 | 162 | 1.99 | 0.17 | 8.9 |
| 4/23/2015 | 22:32:14 | 53.15 | 52.35 | 298 | 1.72 | 0.17 | 16.3 |
| 4/23/2015 | 22:32:34 | 53.48 | 52.68 | 3 | 2.04 | 1.15 | 0.2 |
| 4/23/2015 | 22:32:35 | 53.81 | 53.01 | 141 | 2.04 | 1.15 | 7.7 |
| 4/23/2015 | 22:32:36 | 54.13 | 53.33 | 236 | 2.01 | 1.15 | 12.9 |
| 4/23/2015 | 22:32:37 | 54.46 | 53.66 | 427 | 2.01 | 1.15 | 23.3 |
| 4/23/2015 | 22:32:38 | 54.79 | 53.99 | 474 | 2.01 | 1.15 | 25.9 |
| 4/23/2015 | 22:32:39 | 55.12 | 54.32 | 474 | 2.02 | 1.17 | 25.9 |
| 4/23/2015 | 22:32:39 | 55.45 | 54.65 | 466 | 2.00 | 1.17 | 25.5 |
| 4/23/2015 | 22:32:40 | 55.77 | 54.97 | 463 | 2.00 | 1.15 | 25.3 |
| 4/23/2015 | 22:32:41 | 56.10 | 55.30 | 457 | 1.84 | 1.15 | 25.0 |

## H42 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:29:48

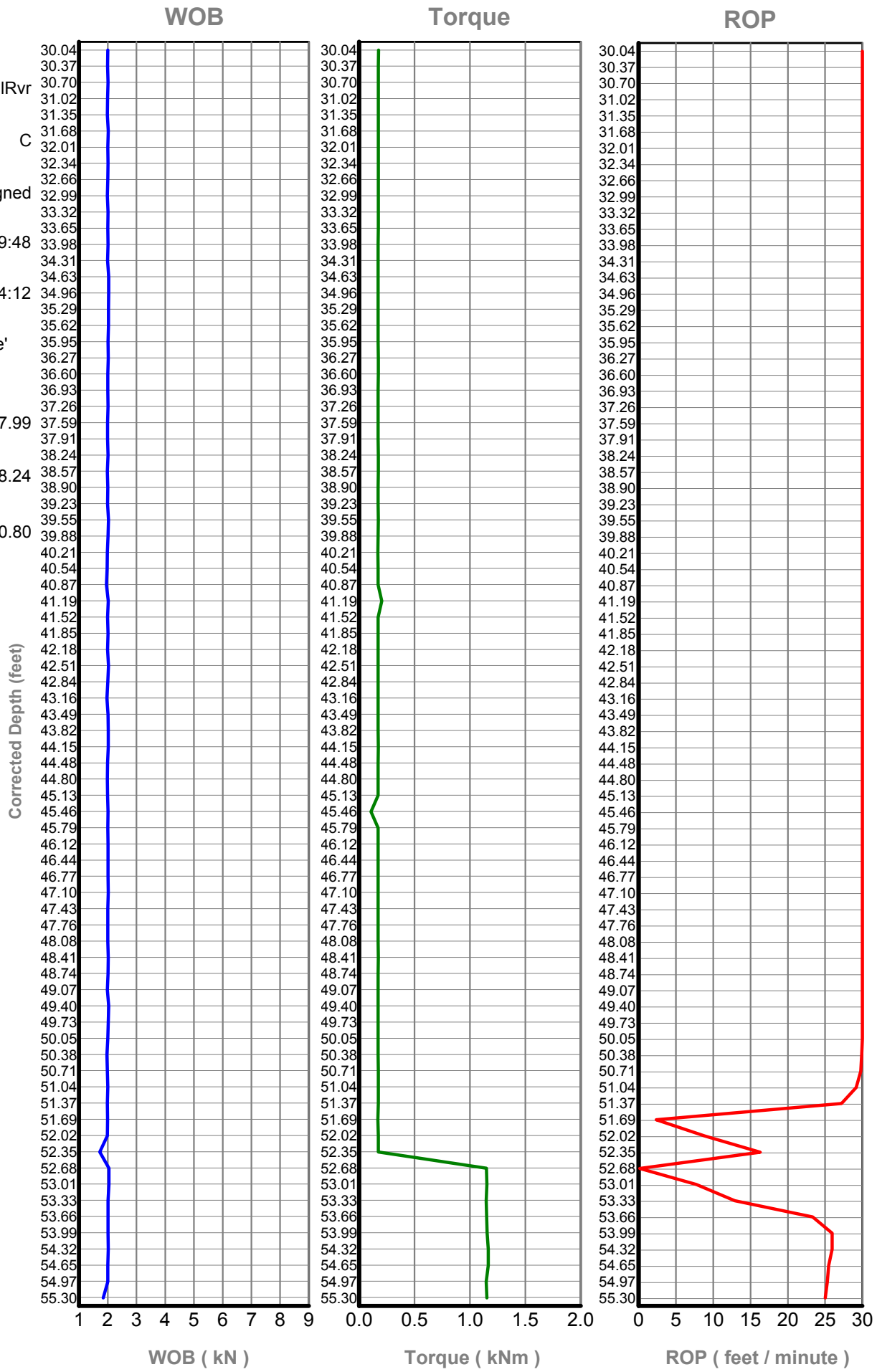
**End Date:**
4/23/2015 22:34:12

**Operator Note:**
'0.8 0.9 c Auto Complete'

**Northing:**
367,517.99

**Easting:**
251,388.24

**Tide (feet):**
0.80



## Hole: H420 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:13:17 | 34.78 | 30.28 | 1,159 | 0.28 | 0.31 | 63.4 |
| 4/26/2015 17:13:17 | 35.11 | 30.61 | 1,156 | 0.28 | 0.30 | 63.2 |
| 4/26/2015 17:13:18 | 35.43 | 30.93 | 1,156 | 0.28 | 0.30 | 63.2 |
| 4/26/2015 17:13:18 | 35.76 | 31.26 | 1,153 | 0.27 | 0.31 | 63.1 |
| 4/26/2015 17:13:18 | 36.09 | 31.59 | 1,153 | 0.27 | 0.31 | 63.1 |
| 4/26/2015 17:13:18 | 36.42 | 31.92 | 1,144 | 0.28 | 0.31 | 62.5 |
| 4/26/2015 17:13:19 | 36.75 | 32.25 | 1,153 | 0.28 | 0.30 | 63.1 |
| 4/26/2015 17:13:19 | 37.07 | 32.57 | 1,153 | 0.28 | 0.30 | 63.1 |
| 4/26/2015 17:13:19 | 37.40 | 32.90 | 1,145 | 0.27 | 0.31 | 62.6 |
| 4/26/2015 17:13:20 | 37.73 | 33.23 | 1,145 | 0.27 | 0.31 | 62.6 |
| 4/26/2015 17:13:20 | 38.06 | 33.56 | 1,129 | 0.27 | 0.31 | 61.7 |
| 4/26/2015 17:13:20 | 38.39 | 33.89 | 1,143 | 0.28 | 0.31 | 62.5 |
| 4/26/2015 17:13:21 | 38.71 | 34.21 | 1,143 | 0.28 | 0.31 | 62.5 |
| 4/26/2015 17:13:21 | 39.04 | 34.54 | 1,156 | 0.29 | 0.31 | 63.2 |
| 4/26/2015 17:13:21 | 39.37 | 34.87 | 1,156 | 0.29 | 0.31 | 63.2 |
| 4/26/2015 17:13:21 | 39.70 | 35.20 | 1,146 | 0.27 | 0.31 | 62.6 |
| 4/26/2015 17:13:22 | 40.03 | 35.53 | 1,151 | 0.28 | 0.31 | 63.0 |
| 4/26/2015 17:13:23 | 40.35 | 35.85 | 1,151 | 0.28 | 0.31 | 63.0 |
| 4/26/2015 17:13:23 | 40.68 | 36.18 | 1,165 | 0.28 | 0.30 | 63.7 |
| 4/26/2015 17:13:23 | 41.01 | 36.51 | 1,165 | 0.28 | 0.30 | 63.7 |
| 4/26/2015 17:13:23 | 41.34 | 36.84 | 1,153 | 0.28 | 0.31 | 63.1 |
| 4/26/2015 17:13:24 | 41.67 | 37.17 | 1,145 | 0.28 | 0.32 | 62.6 |
| 4/26/2015 17:13:24 | 41.99 | 37.49 | 1,145 | 0.28 | 0.32 | 62.6 |
| 4/26/2015 17:13:24 | 42.32 | 37.82 | 1,145 | 0.28 | 0.30 | 62.6 |
| 4/26/2015 17:13:25 | 42.65 | 38.15 | 1,145 | 0.28 | 0.30 | 62.6 |
| 4/26/2015 17:13:25 | 42.98 | 38.48 | 1,142 | 0.28 | 0.31 | 62.4 |
| 4/26/2015 17:13:25 | 43.31 | 38.81 | 1,145 | 0.29 | 0.32 | 62.6 |
| 4/26/2015 17:13:26 | 43.64 | 39.14 | 1,145 | 0.29 | 0.32 | 62.6 |
| 4/26/2015 17:13:26 | 43.96 | 39.46 | 1,142 | 0.28 | 0.30 | 62.4 |
| 4/26/2015 17:13:26 | 44.29 | 39.79 | 1,142 | 0.28 | 0.30 | 62.4 |
| 4/26/2015 17:13:26 | 44.62 | 40.12 | 1,145 | 0.28 | 0.31 | 62.6 |
| 4/26/2015 17:13:27 | 44.95 | 40.45 | 1,145 | 0.27 | 0.31 | 62.6 |
| 4/26/2015 17:13:27 | 45.28 | 40.78 | 1,145 | 0.27 | 0.31 | 62.6 |
| 4/26/2015 17:13:27 | 45.60 | 41.10 | 1,145 | 0.28 | 0.31 | 62.6 |
| 4/26/2015 17:13:28 | 45.93 | 41.43 | 1,145 | 0.28 | 0.31 | 62.6 |
| 4/26/2015 17:13:28 | 46.26 | 41.76 | 1,142 | 0.28 | 0.31 | 62.4 |
| 4/26/2015 17:13:28 | 46.59 | 42.09 | 1,139 | 0.28 | 0.31 | 62.3 |
| 4/26/2015 17:13:29 | 46.92 | 42.42 | 1,139 | 0.28 | 0.31 | 62.3 |
| 4/26/2015 17:13:29 | 47.24 | 42.74 | 1,132 | 0.28 | 0.31 | 61.9 |
| 4/26/2015 17:13:30 | 47.57 | 43.07 | 1,132 | 0.28 | 0.31 | 61.9 |
| 4/26/2015 17:13:29 | 47.90 | 43.40 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:13:30 | 48.23 | 43.73 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:13:30 | 48.56 | 44.06 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/26/2015 17:13:30 | 48.88 | 44.38 | 1,127 | 0.28 | 0.31 | 61.6 |
| 4/26/2015 17:13:31 | 49.21 | 44.71 | 1,127 | 0.28 | 0.31 | 61.6 |
| 4/26/2015 17:13:31 | 49.54 | 45.04 | 1,114 | 0.28 | 0.32 | 60.9 |
| 4/26/2015 17:13:31 | 49.87 | 45.37 | 1,117 | 0.28 | 0.31 | 61.1 |
| 4/26/2015 17:13:32 | 50.20 | 45.70 | 1,117 | 0.28 | 0.31 | 61.1 |
| 4/26/2015 17:13:32 | 50.53 | 46.03 | 1,118 | 0.28 | 0.31 | 61.2 |
| 4/26/2015 17:13:33 | 50.85 | 46.35 | 1,118 | 0.28 | 0.31 | 61.2 |
| 4/26/2015 17:13:33 | 51.18 | 46.68 | 1,141 | 0.26 | 0.32 | 62.4 |
| 4/26/2015 17:13:33 | 51.51 | 47.01 | 1,098 | 0.26 | 0.37 | 60.0 |
| 4/26/2015 17:13:37 | 51.84 | 47.34 | 63 | 4.13 | 0.38 | 3.4 |
| 4/26/2015 17:13:39 | 52.17 | 47.67 | 208 | 3.77 | 0.38 | 11.4 |
| 4/26/2015 17:13:41 | 52.49 | 47.99 | 182 | 2.95 | 0.38 | 10.0 |
| 4/26/2015 17:13:43 | 52.82 | 48.32 | 164 | 7.20 | 0.40 | 9.0 |
| 4/26/2015 17:13:49 | 53.15 | 48.65 | 62 | 6.52 | 0.39 | 3.4 |
| 4/26/2015 17:13:51 | 53.48 | 48.98 | 57 | 4.76 | 0.41 | 3.1 |
| 4/26/2015 17:13:53 | 53.81 | 49.31 | 225 | 3.25 | 0.37 | 12.3 |
| 4/26/2015 17:13:56 | 54.13 | 49.63 | 167 | 4.87 | 0.39 | 9.2 |
| 4/26/2015 17:13:58 | 54.46 | 49.96 | 106 | 3.07 | 0.37 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:14:05 | 54.79 | 50.29 | 0 | 2.95 | 0.37 | 0.0 |
| 4/26/2015 | 17:14:06 | 55.12 | 50.62 | 165 | 2.72 | 0.35 | 9.0 |
| 4/26/2015 | 17:14:06 | 55.45 | 50.95 | 259 | 2.42 | 0.36 | 14.2 |
| 4/26/2015 | 17:14:07 | 55.77 | 51.27 | 443 | 2.63 | 0.37 | 24.2 |
| 4/26/2015 | 17:14:08 | 56.10 | 51.60 | 443 | 3.38 | 0.37 | 24.2 |
| 4/26/2015 | 17:14:09 | 56.43 | 51.93 | 459 | 3.63 | 0.37 | 25.1 |
| 4/26/2015 | 17:14:10 | 56.76 | 52.26 | 433 | 3.69 | 0.37 | 23.7 |
| 4/26/2015 | 17:14:10 | 57.09 | 52.59 | 417 | 3.34 | 0.36 | 22.8 |
| 4/26/2015 | 17:14:11 | 57.41 | 52.91 | 401 | 1.63 | 0.34 | 21.9 |
| 4/26/2015 | 17:14:11 | 57.74 | 53.24 | 401 | 1.68 | 0.32 | 21.9 |
| 4/26/2015 | 17:14:12 | 58.07 | 53.57 | 485 | 2.77 | 0.35 | 26.5 |
| 4/26/2015 | 17:14:12 | 58.40 | 53.90 | 544 | 4.30 | 0.37 | 29.7 |
| 4/26/2015 | 17:14:13 | 58.73 | 54.23 | 581 | 1.75 | 0.34 | 31.8 |
| 4/26/2015 | 17:14:15 | 59.06 | 54.56 | 252 | 1.64 | 0.34 | 13.8 |
| 4/26/2015 | 17:14:15 | 59.23 | 54.73 | 252 | 1.64 | 0.34 | 13.8 |

## H420 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:11:43

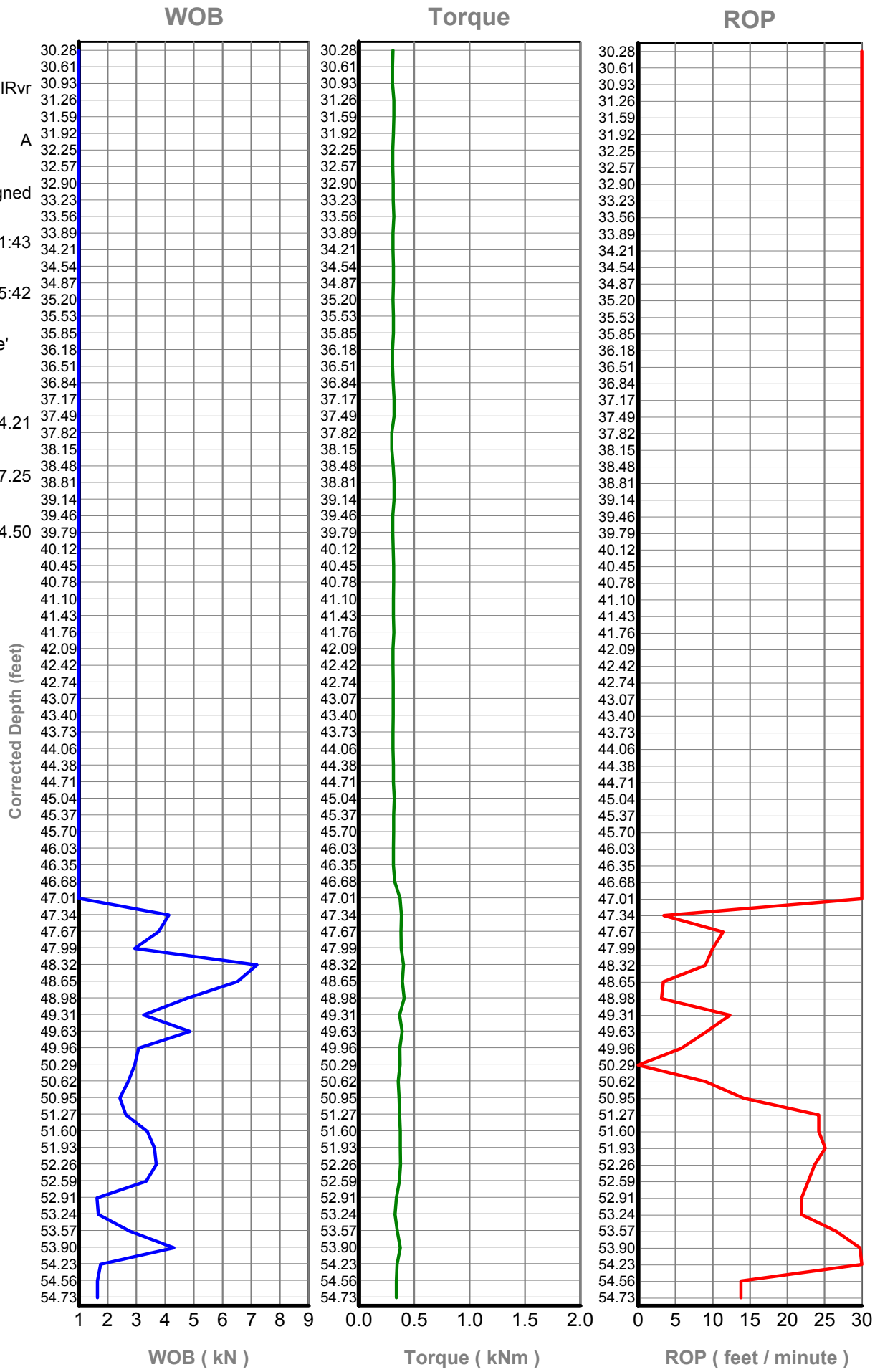
**End Date:**
4/26/2015 17:15:42

**Operator Note:**
'4.5 4.1b Auto Complete'

**Northing:**
365,484.21

**Easting:**
250,057.25

**Tide (feet):**
4.50



## Hole: H421 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 17:07:01 | 34.45 | 30.05 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 17:07:01 | 34.78 | 30.38 | 691 | 1.74 | 0.28 | 37.8 |
| 4/26/2015 17:07:02 | 35.11 | 30.71 | 685 | 1.76 | 0.28 | 37.5 |
| 4/26/2015 17:07:02 | 35.43 | 31.03 | 682 | 1.75 | 0.28 | 37.3 |
| 4/26/2015 17:07:03 | 35.76 | 31.36 | 679 | 1.76 | 0.28 | 37.1 |
| 4/26/2015 17:07:03 | 36.09 | 31.69 | 679 | 1.76 | 0.28 | 37.1 |
| 4/26/2015 17:07:04 | 36.42 | 32.02 | 675 | 1.74 | 0.28 | 36.9 |
| 4/26/2015 17:07:04 | 36.75 | 32.35 | 682 | 1.75 | 0.28 | 37.3 |
| 4/26/2015 17:07:05 | 37.07 | 32.67 | 682 | 1.75 | 0.28 | 37.3 |
| 4/26/2015 17:07:05 | 37.40 | 33.00 | 682 | 1.76 | 0.28 | 37.3 |
| 4/26/2015 17:07:06 | 37.73 | 33.33 | 685 | 1.75 | 0.28 | 37.5 |
| 4/26/2015 17:07:06 | 38.06 | 33.66 | 689 | 1.74 | 0.28 | 37.7 |
| 4/26/2015 17:07:07 | 38.39 | 33.99 | 682 | 1.76 | 0.28 | 37.3 |
| 4/26/2015 17:07:07 | 38.71 | 34.31 | 682 | 1.76 | 0.28 | 37.3 |
| 4/26/2015 17:07:08 | 39.04 | 34.64 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 17:07:08 | 39.37 | 34.97 | 682 | 1.77 | 0.28 | 37.3 |
| 4/26/2015 17:07:09 | 39.70 | 35.30 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 17:07:10 | 40.03 | 35.63 | 679 | 1.74 | 0.28 | 37.1 |
| 4/26/2015 17:07:10 | 40.35 | 35.95 | 672 | 1.76 | 0.28 | 36.7 |
| 4/26/2015 17:07:11 | 40.68 | 36.28 | 672 | 1.75 | 0.28 | 36.7 |
| 4/26/2015 17:07:11 | 41.01 | 36.61 | 675 | 1.75 | 0.28 | 36.9 |
| 4/26/2015 17:07:12 | 41.34 | 36.94 | 677 | 1.76 | 0.28 | 37.0 |
| 4/26/2015 17:07:12 | 41.67 | 37.27 | 672 | 1.76 | 0.28 | 36.8 |
| 4/26/2015 17:07:13 | 41.99 | 37.59 | 676 | 1.76 | 0.28 | 36.9 |
| 4/26/2015 17:07:13 | 42.32 | 37.92 | 687 | 1.76 | 0.28 | 37.6 |
| 4/26/2015 17:07:14 | 42.65 | 38.25 | 663 | 1.77 | 0.28 | 36.2 |
| 4/26/2015 17:07:14 | 42.98 | 38.58 | 663 | 1.76 | 0.28 | 36.2 |
| 4/26/2015 17:07:15 | 43.31 | 38.91 | 667 | 1.75 | 0.28 | 36.5 |
| 4/26/2015 17:07:15 | 43.64 | 39.24 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 17:07:16 | 43.96 | 39.56 | 656 | 1.75 | 0.28 | 35.9 |
| 4/26/2015 17:07:16 | 44.29 | 39.89 | 665 | 1.76 | 0.28 | 36.4 |
| 4/26/2015 17:07:17 | 44.62 | 40.22 | 661 | 1.75 | 0.28 | 36.1 |
| 4/26/2015 17:07:17 | 44.95 | 40.55 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 17:07:18 | 45.28 | 40.88 | 671 | 1.74 | 0.28 | 36.7 |
| 4/26/2015 17:07:18 | 45.60 | 41.20 | 662 | 1.73 | 0.28 | 36.2 |
| 4/26/2015 17:07:19 | 45.93 | 41.53 | 662 | 1.75 | 0.28 | 36.2 |
| 4/26/2015 17:07:19 | 46.26 | 41.86 | 666 | 1.74 | 0.28 | 36.4 |
| 4/26/2015 17:07:20 | 46.59 | 42.19 | 670 | 1.76 | 0.28 | 36.6 |
| 4/26/2015 17:07:21 | 46.92 | 42.52 | 652 | 1.74 | 0.28 | 35.7 |
| 4/26/2015 17:07:21 | 47.24 | 42.84 | 652 | 1.74 | 0.28 | 35.7 |
| 4/26/2015 17:07:22 | 47.57 | 43.17 | 655 | 1.76 | 0.28 | 35.8 |
| 4/26/2015 17:07:22 | 47.90 | 43.50 | 683 | 1.76 | 0.28 | 37.4 |
| 4/26/2015 17:07:23 | 48.23 | 43.83 | 675 | 1.76 | 0.28 | 36.9 |
| 4/26/2015 17:07:24 | 48.56 | 44.16 | 675 | 1.79 | 0.28 | 36.9 |
| 4/26/2015 17:07:24 | 48.88 | 44.48 | 675 | 1.76 | 0.28 | 36.9 |
| 4/26/2015 17:07:25 | 49.21 | 44.81 | 682 | 1.74 | 0.28 | 37.3 |
| 4/26/2015 17:07:25 | 49.54 | 45.14 | 674 | 1.76 | 0.28 | 36.8 |
| 4/26/2015 17:07:26 | 49.87 | 45.47 | 652 | 1.74 | 0.28 | 35.6 |
| 4/26/2015 17:07:26 | 50.20 | 45.80 | 662 | 1.72 | 0.28 | 36.2 |
| 4/26/2015 17:07:48 | 50.53 | 46.13 | 0 | 1.89 | 1.03 | 0.0 |
| 4/26/2015 17:07:49 | 50.85 | 46.45 | 193 | 1.78 | 1.09 | 10.6 |
| 4/26/2015 17:07:50 | 51.18 | 46.78 | 312 | 1.72 | 1.12 | 17.1 |
| 4/26/2015 17:07:52 | 51.51 | 47.11 | 292 | 1.73 | 1.10 | 16.0 |
| 4/26/2015 17:08:11 | 51.84 | 47.44 | 86 | 1.73 | 1.08 | 4.7 |
| 4/26/2015 17:08:13 | 52.17 | 47.77 | 236 | 1.73 | 1.06 | 12.9 |
| 4/26/2015 17:08:35 | 52.49 | 48.09 | 116 | 1.74 | 1.09 | 6.3 |
| 4/26/2015 17:08:37 | 52.82 | 48.42 | 200 | 1.74 | 1.18 | 10.9 |
| 4/26/2015 17:08:38 | 53.15 | 48.75 | 237 | 1.72 | 1.17 | 13.0 |
| 4/26/2015 17:09:17 | 53.48 | 49.08 | 0 | 1.73 | 1.08 | 0.0 |
| 4/26/2015 17:09:19 | 53.81 | 49.41 | 138 | 1.74 | 1.02 | 7.6 |
| 4/26/2015 17:09:21 | 54.13 | 49.73 | 199 | 1.70 | 1.06 | 10.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 17:09:22 | 54.46 | 50.06 | 238 | 1.71 | 0.93 | 13.0 |
| 4/26/2015 | 17:09:23 | 54.79 | 50.39 | 269 | 1.74 | 0.82 | 14.7 |
| 4/26/2015 | 17:09:25 | 55.12 | 50.72 | 350 | 1.70 | 0.78 | 19.1 |
| 4/26/2015 | 17:10:20 | 55.45 | 51.05 | 23 | 2.00 | 1.19 | 1.2 |
| 4/26/2015 | 17:10:21 | 55.77 | 51.37 | 164 | 1.73 | 1.33 | 9.0 |
| 4/26/2015 | 17:10:23 | 56.10 | 51.70 | 228 | 1.73 | 1.11 | 12.5 |
| 4/26/2015 | 17:10:30 | 56.43 | 52.03 | 35 | 1.77 | 0.92 | 1.9 |
| 4/26/2015 | 17:10:39 | 56.76 | 52.36 | 37 | 1.79 | 0.95 | 2.0 |
| 4/26/2015 | 17:10:49 | 57.09 | 52.69 | 38 | 1.79 | 0.91 | 2.1 |
| 4/26/2015 | 17:10:59 | 57.41 | 53.01 | 34 | 1.77 | 1.06 | 1.9 |
| 4/26/2015 | 17:11:00 | 57.45 | 53.05 | 38 | 1.82 | 1.11 | 2.1 |

## H421 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 17:04:52

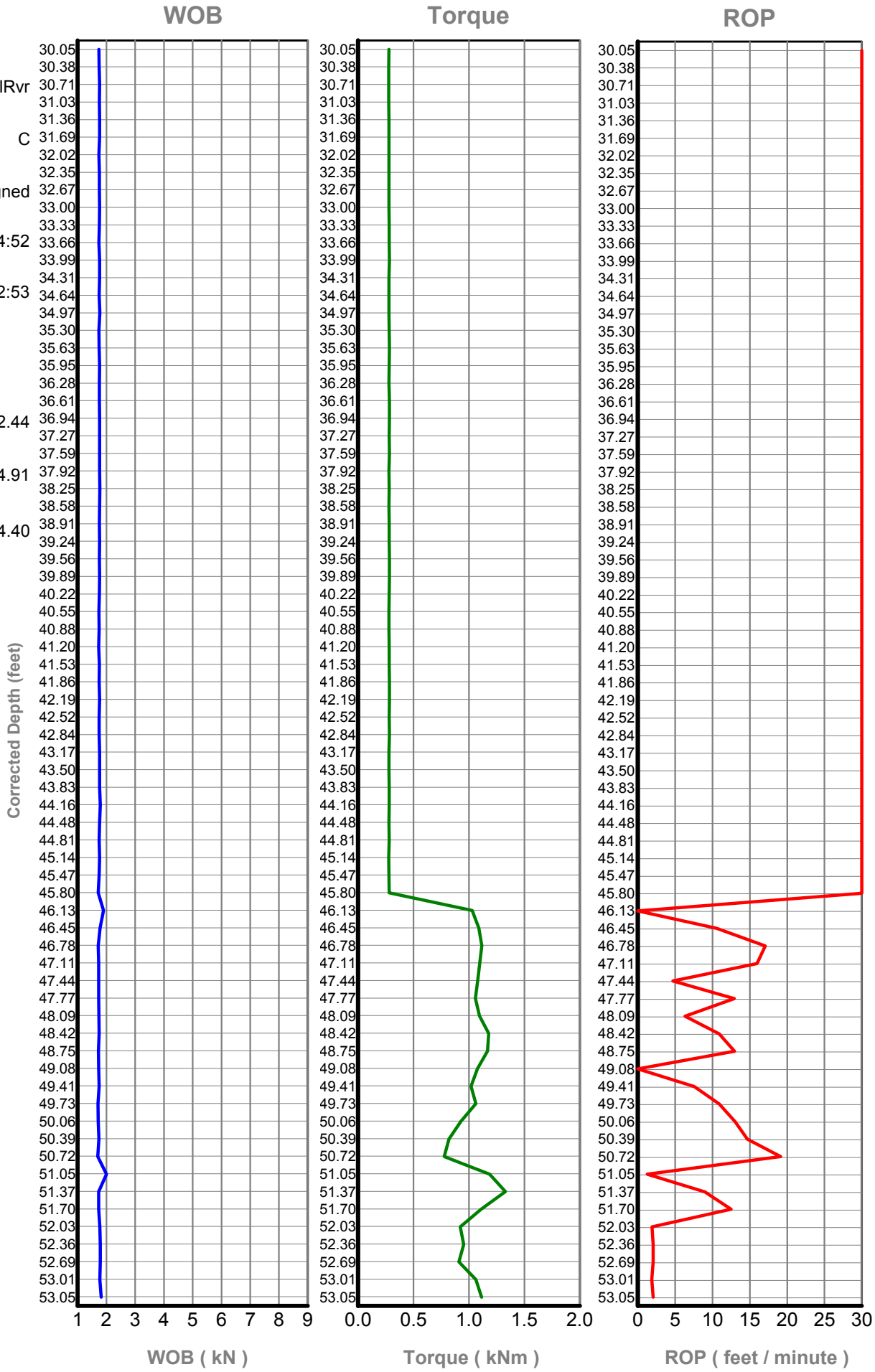
**End Date:**
4/26/2015 17:12:53

**Operator Note:**
'4.4 3.9 C Auto Complete'

**Northing:**
365,532.44

**Easting:**
250,114.91

**Tide (feet):**
4.40



## Hole: H422 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:29:50 | 33.79 | 30.29 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:29:51 | 34.12 | 30.62 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 16:29:51 | 34.45 | 30.95 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/26/2015 16:29:51 | 34.78 | 31.28 | 1,090 | 0.29 | 0.30 | 59.6 |
| 4/26/2015 16:29:52 | 35.11 | 31.61 | 1,090 | 0.29 | 0.30 | 59.6 |
| 4/26/2015 16:29:52 | 35.43 | 31.93 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/26/2015 16:29:52 | 35.76 | 32.26 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/26/2015 16:29:53 | 36.09 | 32.59 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/26/2015 16:29:53 | 36.42 | 32.92 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/26/2015 16:29:53 | 36.75 | 33.25 | 1,050 | 0.28 | 0.30 | 57.4 |
| 4/26/2015 16:29:54 | 37.07 | 33.57 | 1,050 | 0.28 | 0.30 | 57.4 |
| 4/26/2015 16:29:54 | 37.40 | 33.90 | 1,075 | 0.29 | 0.31 | 58.8 |
| 4/26/2015 16:29:54 | 37.73 | 34.23 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 16:29:55 | 38.06 | 34.56 | 1,056 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 16:29:55 | 38.39 | 34.89 | 1,056 | 0.29 | 0.32 | 57.8 |
| 4/26/2015 16:29:55 | 38.71 | 35.21 | 1,056 | 0.29 | 0.32 | 57.8 |
| 4/26/2015 16:29:55 | 39.04 | 35.54 | 1,067 | 0.29 | 0.31 | 58.3 |
| 4/26/2015 16:29:56 | 39.37 | 35.87 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/26/2015 16:29:56 | 39.70 | 36.20 | 1,087 | 0.28 | 0.31 | 59.4 |
| 4/26/2015 16:29:56 | 40.03 | 36.53 | 1,101 | 0.29 | 0.32 | 60.2 |
| 4/26/2015 16:29:57 | 40.35 | 36.85 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 16:29:57 | 40.68 | 37.18 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 16:29:58 | 41.01 | 37.51 | 1,086 | 0.29 | 0.30 | 59.4 |
| 4/26/2015 16:29:58 | 41.34 | 37.84 | 1,058 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 16:29:58 | 41.67 | 38.17 | 1,058 | 0.29 | 0.31 | 57.8 |
| 4/26/2015 16:29:59 | 41.99 | 38.49 | 1,058 | 0.28 | 0.30 | 57.8 |
| 4/26/2015 16:29:59 | 42.32 | 38.82 | 1,058 | 0.28 | 0.30 | 57.8 |
| 4/26/2015 16:29:59 | 42.65 | 39.15 | 1,058 | 0.28 | 0.31 | 57.8 |
| 4/26/2015 16:30:00 | 42.98 | 39.48 | 1,058 | 0.29 | 0.30 | 57.8 |
| 4/26/2015 16:30:00 | 43.31 | 39.81 | 1,058 | 0.29 | 0.30 | 57.8 |
| 4/26/2015 16:30:00 | 43.64 | 40.14 | 1,065 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 16:30:01 | 43.96 | 40.46 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 16:30:01 | 44.29 | 40.79 | 1,053 | 0.29 | 0.31 | 57.6 |
| 4/26/2015 16:30:01 | 44.62 | 41.12 | 1,033 | 0.29 | 0.31 | 56.5 |
| 4/26/2015 16:30:02 | 44.95 | 41.45 | 1,033 | 0.29 | 0.32 | 56.5 |
| 4/26/2015 16:30:02 | 45.28 | 41.78 | 1,033 | 0.29 | 0.32 | 56.5 |
| 4/26/2015 16:30:02 | 45.60 | 42.10 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 16:30:03 | 45.93 | 42.43 | 1,074 | 0.29 | 0.31 | 58.7 |
| 4/26/2015 16:30:03 | 46.26 | 42.76 | 1,068 | 0.29 | 0.31 | 58.4 |
| 4/26/2015 16:30:03 | 46.59 | 43.09 | 1,030 | 0.29 | 0.31 | 56.3 |
| 4/26/2015 16:30:04 | 46.92 | 43.42 | 1,030 | 0.29 | 0.31 | 56.3 |
| 4/26/2015 16:30:04 | 47.24 | 43.74 | 1,054 | 0.29 | 0.30 | 57.6 |
| 4/26/2015 16:30:04 | 47.57 | 44.07 | 1,065 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 16:30:05 | 47.90 | 44.40 | 1,065 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 16:30:05 | 48.23 | 44.73 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/26/2015 16:30:05 | 48.56 | 45.06 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/26/2015 16:30:06 | 48.88 | 45.38 | 1,035 | 0.29 | 0.31 | 56.6 |
| 4/26/2015 16:30:06 | 49.21 | 45.71 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 16:30:06 | 49.54 | 46.04 | 1,084 | 0.26 | 0.34 | 59.3 |
| 4/26/2015 16:30:07 | 49.87 | 46.37 | 1,084 | 0.26 | 0.34 | 59.3 |
| 4/26/2015 16:30:11 | 50.20 | 46.70 | 57 | 2.61 | 0.37 | 3.1 |
| 4/26/2015 16:30:15 | 50.53 | 47.03 | 37 | 3.96 | 0.36 | 2.0 |
| 4/26/2015 16:30:15 | 50.85 | 47.35 | 140 | 2.36 | 0.35 | 7.7 |
| 4/26/2015 16:30:16 | 51.18 | 47.68 | 249 | 2.52 | 0.35 | 13.6 |
| 4/26/2015 16:30:24 | 51.51 | 48.01 | 23 | 4.35 | 0.36 | 1.3 |
| 4/26/2015 16:30:25 | 51.84 | 48.34 | 215 | 2.41 | 0.36 | 11.7 |
| 4/26/2015 16:30:37 | 52.17 | 48.67 | 0 | 2.76 | 0.32 | 0.0 |
| 4/26/2015 16:30:41 | 52.49 | 48.99 | 79 | 5.54 | 0.38 | 4.3 |
| 4/26/2015 16:30:42 | 52.82 | 49.32 | 127 | 3.78 | 0.38 | 7.0 |
| 4/26/2015 16:30:43 | 53.15 | 49.65 | 266 | 2.67 | 0.37 | 14.5 |
| 4/26/2015 16:30:48 | 53.48 | 49.98 | 111 | 3.09 | 0.38 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 16:30:48 | 53.81 | 50.31 | 191 | 2.68 | 0.36 | 10.5 |
| 4/26/2015 | 16:30:49 | 54.13 | 50.63 | 301 | 2.48 | 0.37 | 16.4 |
| 4/26/2015 | 16:30:50 | 54.46 | 50.96 | 367 | 3.50 | 0.36 | 20.1 |
| 4/26/2015 | 16:30:51 | 54.79 | 51.29 | 427 | 4.35 | 0.37 | 23.3 |
| 4/26/2015 | 16:30:58 | 55.12 | 51.62 | 102 | 3.42 | 0.38 | 5.6 |
| 4/26/2015 | 16:31:00 | 55.45 | 51.95 | 213 | 2.89 | 0.39 | 11.7 |
| 4/26/2015 | 16:31:07 | 55.77 | 52.27 | 52 | 3.03 | 0.39 | 2.8 |
| 4/26/2015 | 16:31:14 | 56.10 | 52.60 | 50 | 3.28 | 0.39 | 2.8 |
| 4/26/2015 | 16:31:22 | 56.43 | 52.93 | 40 | 3.20 | 0.39 | 2.2 |
| 4/26/2015 | 16:31:24 | 56.50 | 53.00 | 40 | 3.27 | 0.40 | 2.2 |

## H422 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:28:12

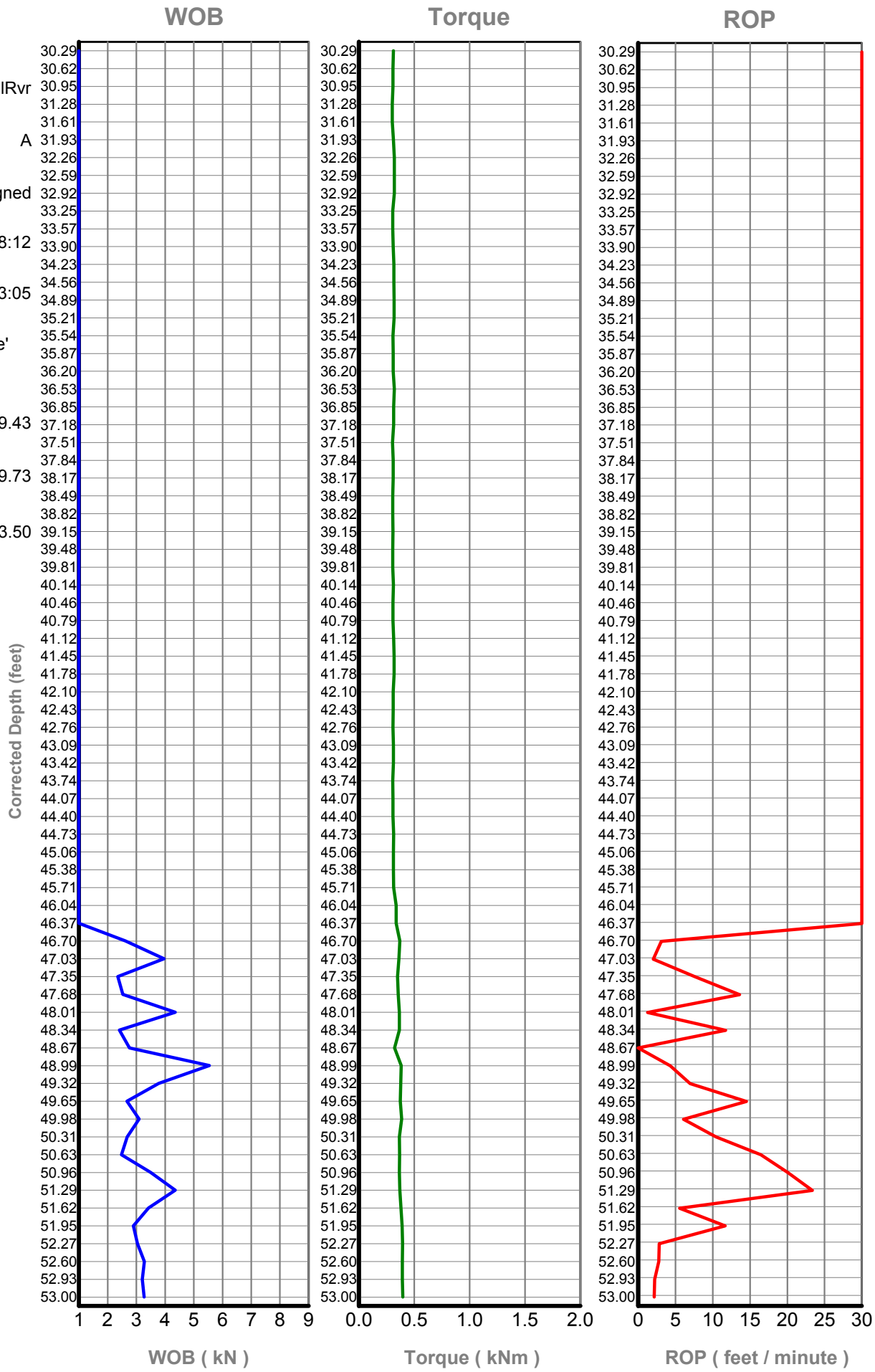
**End Date:**
4/26/2015 16:33:05

**Operator Note:**
'3.5 3.0 b Auto Complete'

**Northing:**
365,589.43

**Easting:**
250,179.73

**Tide (feet):**
3.50



## Hole: H423 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:24:01 | 33.46 | 30.16 | 1,087 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 16:24:01 | 33.79 | 30.49 | 1,104 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 16:24:01 | 34.12 | 30.82 | 1,104 | 0.29 | 0.31 | 60.3 |
| 4/26/2015 16:24:01 | 34.45 | 31.15 | 1,109 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 16:24:02 | 34.78 | 31.48 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/26/2015 16:24:02 | 35.11 | 31.81 | 1,116 | 0.29 | 0.31 | 61.0 |
| 4/26/2015 16:24:02 | 35.43 | 32.13 | 1,109 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 16:24:03 | 35.76 | 32.46 | 1,132 | 0.29 | 0.32 | 61.9 |
| 4/26/2015 16:24:03 | 36.09 | 32.79 | 1,132 | 0.29 | 0.32 | 61.9 |
| 4/26/2015 16:24:03 | 36.42 | 33.12 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/26/2015 16:24:04 | 36.75 | 33.45 | 1,119 | 0.29 | 0.31 | 61.2 |
| 4/26/2015 16:24:04 | 37.07 | 33.77 | 1,110 | 0.29 | 0.31 | 60.7 |
| 4/26/2015 16:24:04 | 37.40 | 34.10 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:24:05 | 37.73 | 34.43 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:24:05 | 38.06 | 34.76 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:24:06 | 38.39 | 35.09 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/26/2015 16:24:06 | 38.71 | 35.41 | 1,107 | 0.29 | 0.31 | 60.5 |
| 4/26/2015 16:24:06 | 39.04 | 35.74 | 1,104 | 0.14 | 0.30 | 60.4 |
| 4/26/2015 16:24:07 | 39.37 | 36.07 | 1,104 | 0.14 | 0.30 | 60.4 |
| 4/26/2015 16:24:07 | 39.70 | 36.40 | 1,107 | 0.33 | 0.31 | 60.5 |
| 4/26/2015 16:24:07 | 40.03 | 36.73 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 16:24:08 | 40.35 | 37.05 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 16:24:08 | 40.68 | 37.38 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 16:24:08 | 41.01 | 37.71 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 16:24:08 | 41.34 | 38.04 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:08 | 41.67 | 38.37 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:09 | 41.99 | 38.69 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:09 | 42.32 | 39.02 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:10 | 42.65 | 39.35 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:10 | 42.98 | 39.68 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 16:24:10 | 43.31 | 40.01 | 1,102 | 0.37 | 0.31 | 60.3 |
| 4/26/2015 16:24:11 | 43.64 | 40.34 | 1,102 | 0.37 | 0.31 | 60.3 |
| 4/26/2015 16:24:11 | 43.96 | 40.66 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 16:24:11 | 44.29 | 40.99 | 1,106 | 0.34 | 0.32 | 60.5 |
| 4/26/2015 16:24:12 | 44.62 | 41.32 | 1,106 | 0.34 | 0.32 | 60.5 |
| 4/26/2015 16:24:12 | 44.95 | 41.65 | 1,108 | 0.25 | 0.31 | 60.6 |
| 4/26/2015 16:24:12 | 45.28 | 41.98 | 1,068 | 0.35 | 0.31 | 58.4 |
| 4/26/2015 16:24:13 | 45.60 | 42.30 | 1,068 | 0.35 | 0.31 | 58.4 |
| 4/26/2015 16:24:13 | 45.93 | 42.63 | 1,068 | 0.32 | 0.31 | 58.4 |
| 4/26/2015 16:24:13 | 46.26 | 42.96 | 1,047 | 0.32 | 0.32 | 57.3 |
| 4/26/2015 16:24:14 | 46.59 | 43.29 | 1,047 | 0.32 | 0.32 | 57.3 |
| 4/26/2015 16:24:14 | 46.92 | 43.62 | 1,047 | 0.29 | 0.36 | 57.3 |
| 4/26/2015 16:24:22 | 47.24 | 43.94 | 51 | 2.34 | 0.34 | 2.8 |
| 4/26/2015 16:24:23 | 47.57 | 44.27 | 51 | 2.34 | 0.34 | 2.8 |
| 4/26/2015 16:24:23 | 47.90 | 44.60 | 185 | 2.97 | 0.37 | 10.1 |
| 4/26/2015 16:24:23 | 48.23 | 44.93 | 289 | 2.80 | 0.36 | 15.8 |
| 4/26/2015 16:24:24 | 48.56 | 45.26 | 396 | 2.96 | 0.34 | 21.7 |
| 4/26/2015 16:24:25 | 48.88 | 45.58 | 396 | 2.96 | 0.34 | 21.7 |
| 4/26/2015 16:24:25 | 49.21 | 45.91 | 618 | 4.19 | 0.38 | 33.8 |
| 4/26/2015 16:24:27 | 49.54 | 46.24 | 490 | 4.89 | 0.39 | 26.8 |
| 4/26/2015 16:24:29 | 49.87 | 46.57 | 173 | 3.49 | 0.37 | 9.4 |
| 4/26/2015 16:24:30 | 50.20 | 46.90 | 191 | 2.92 | 0.36 | 10.4 |
| 4/26/2015 16:24:30 | 50.53 | 47.23 | 254 | 2.82 | 0.36 | 13.9 |
| 4/26/2015 16:24:35 | 50.85 | 47.55 | 94 | 5.20 | 0.37 | 5.1 |
| 4/26/2015 16:24:37 | 51.18 | 47.88 | 267 | 2.59 | 0.36 | 14.6 |
| 4/26/2015 16:24:38 | 51.51 | 48.21 | 279 | 2.34 | 0.35 | 15.3 |
| 4/26/2015 16:24:38 | 51.84 | 48.54 | 326 | 2.51 | 0.36 | 17.8 |
| 4/26/2015 16:24:44 | 52.17 | 48.87 | 50 | 4.07 | 0.37 | 2.7 |
| 4/26/2015 16:24:45 | 52.49 | 49.19 | 155 | 3.76 | 0.36 | 8.5 |
| 4/26/2015 16:24:46 | 52.82 | 49.52 | 306 | 2.84 | 0.37 | 16.7 |
| 4/26/2015 16:24:46 | 53.15 | 49.85 | 372 | 2.38 | 0.36 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 16:24:50 | 53.48 | 50.18 | 99 | 2.64 | 0.37 | 5.4 |
| 4/26/2015 | 16:24:51 | 53.81 | 50.51 | 141 | 2.32 | 0.37 | 7.7 |
| 4/26/2015 | 16:24:52 | 54.13 | 50.83 | 219 | 3.20 | 0.37 | 12.0 |
| 4/26/2015 | 16:24:53 | 54.46 | 51.16 | 293 | 3.18 | 0.37 | 16.0 |
| 4/26/2015 | 16:24:54 | 54.79 | 51.49 | 326 | 3.43 | 0.37 | 17.8 |
| 4/26/2015 | 16:24:55 | 55.12 | 51.82 | 365 | 2.55 | 0.34 | 20.0 |
| 4/26/2015 | 16:24:58 | 55.45 | 52.15 | 194 | 1.89 | 0.33 | 10.6 |
| 4/26/2015 | 16:24:58 | 55.77 | 52.47 | 216 | 2.29 | 0.36 | 11.8 |
| 4/26/2015 | 16:24:59 | 56.10 | 52.80 | 275 | 2.46 | 0.37 | 15.0 |
| 4/26/2015 | 16:25:00 | 56.43 | 53.13 | 352 | 2.95 | 0.37 | 19.2 |
| 4/26/2015 | 16:25:03 | 56.76 | 53.46 | 229 | 3.86 | 0.39 | 12.5 |
| 4/26/2015 | 16:25:04 | 57.09 | 53.79 | 186 | 4.91 | 0.37 | 10.2 |
| 4/26/2015 | 16:25:05 | 57.41 | 54.11 | 209 | 3.22 | 0.38 | 11.4 |
| 4/26/2015 | 16:25:06 | 57.74 | 54.44 | 286 | 4.08 | 0.38 | 15.6 |
| 4/26/2015 | 16:25:09 | 58.07 | 54.77 | 212 | 3.05 | 0.39 | 11.6 |
| 4/26/2015 | 16:25:09 | 58.11 | 54.81 | 212 | 3.05 | 0.39 | 11.6 |

## H423 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:22:01

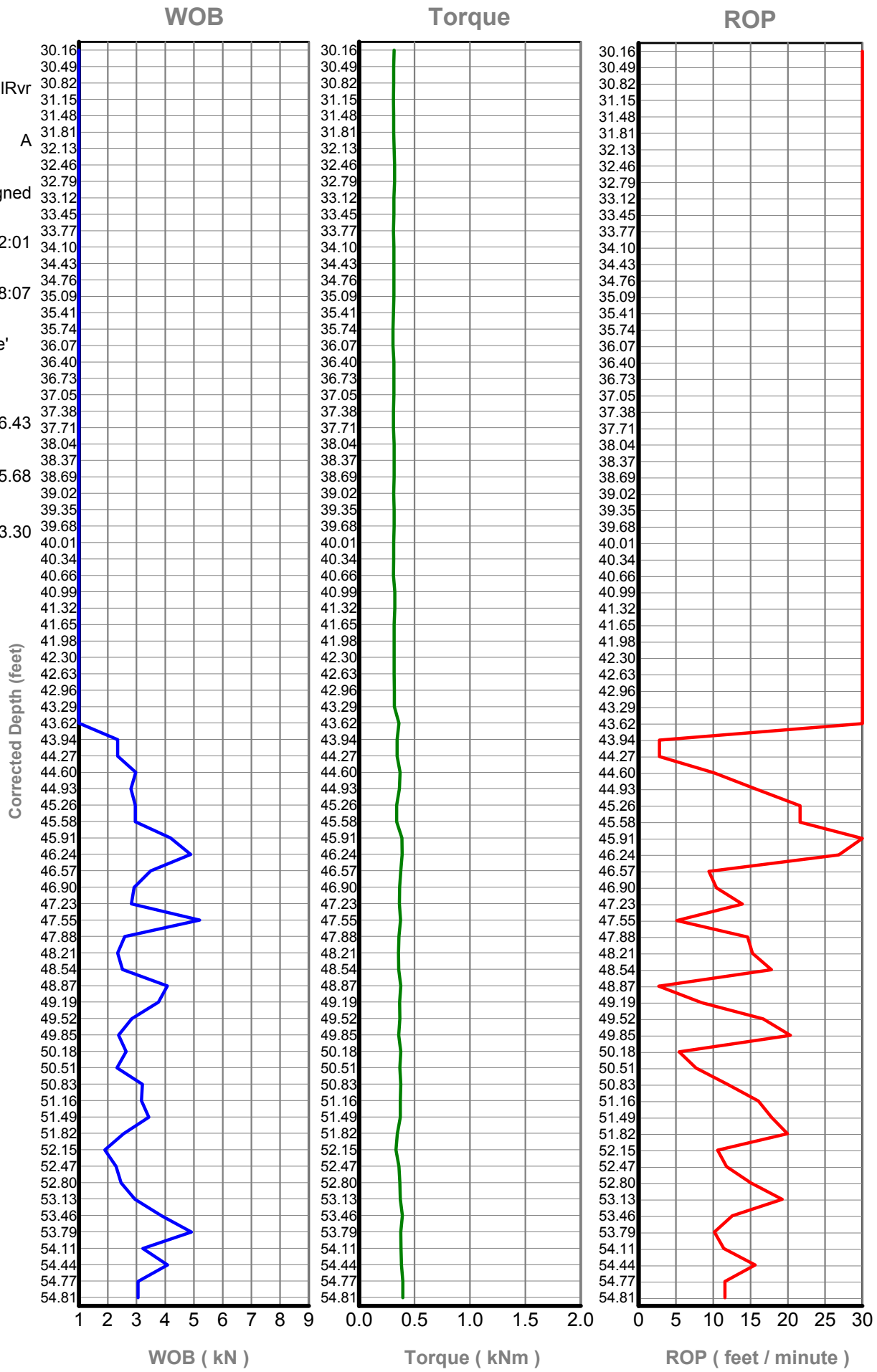
**End Date:**
4/26/2015 16:28:07

**Operator Note:**
'3.3 3.0 b Auto Complete'

**Northing:**
365,626.43

**Easting:**
250,225.68

**Tide (feet):**
3.30



## Hole: H424 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 16:25:14 | 33.46 | 30.16 | 729 | 1.74 | 0.27 | 39.8 |
| 4/26/2015 16:25:14 | 33.79 | 30.49 | 724 | 1.75 | 0.27 | 39.6 |
| 4/26/2015 16:25:15 | 34.12 | 30.82 | 724 | 1.75 | 0.27 | 39.6 |
| 4/26/2015 16:25:15 | 34.45 | 31.15 | 713 | 1.76 | 0.28 | 39.0 |
| 4/26/2015 16:25:15 | 34.78 | 31.48 | 713 | 1.74 | 0.27 | 39.0 |
| 4/26/2015 16:25:16 | 35.11 | 31.81 | 717 | 1.74 | 0.27 | 39.2 |
| 4/26/2015 16:25:16 | 35.43 | 32.13 | 717 | 1.75 | 0.27 | 39.2 |
| 4/26/2015 16:25:17 | 35.76 | 32.46 | 706 | 1.73 | 0.28 | 38.6 |
| 4/26/2015 16:25:17 | 36.09 | 32.79 | 719 | 1.75 | 0.27 | 39.3 |
| 4/26/2015 16:25:18 | 36.42 | 33.12 | 735 | 1.74 | 0.27 | 40.2 |
| 4/26/2015 16:25:18 | 36.75 | 33.45 | 723 | 1.74 | 0.27 | 39.5 |
| 4/26/2015 16:25:19 | 37.07 | 33.77 | 726 | 1.72 | 0.28 | 39.7 |
| 4/26/2015 16:25:19 | 37.40 | 34.10 | 735 | 1.75 | 0.27 | 40.2 |
| 4/26/2015 16:25:20 | 37.73 | 34.43 | 726 | 1.75 | 0.27 | 39.7 |
| 4/26/2015 16:25:20 | 38.06 | 34.76 | 718 | 1.74 | 0.28 | 39.3 |
| 4/26/2015 16:25:21 | 38.39 | 35.09 | 726 | 1.73 | 0.27 | 39.7 |
| 4/26/2015 16:25:22 | 38.71 | 35.41 | 723 | 1.74 | 0.27 | 39.5 |
| 4/26/2015 16:25:22 | 39.04 | 35.74 | 723 | 1.73 | 0.28 | 39.5 |
| 4/26/2015 16:25:23 | 39.37 | 36.07 | 723 | 1.75 | 0.26 | 39.5 |
| 4/26/2015 16:25:23 | 39.70 | 36.40 | 726 | 1.74 | 0.28 | 39.7 |
| 4/26/2015 16:25:24 | 40.03 | 36.73 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 16:25:24 | 40.35 | 37.05 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 16:25:24 | 40.68 | 37.38 | 723 | 1.74 | 0.27 | 39.5 |
| 4/26/2015 16:25:25 | 41.01 | 37.71 | 718 | 1.74 | 0.28 | 39.3 |
| 4/26/2015 16:25:25 | 41.34 | 38.04 | 723 | 1.74 | 0.28 | 39.5 |
| 4/26/2015 16:25:26 | 41.67 | 38.37 | 723 | 1.74 | 0.27 | 39.5 |
| 4/26/2015 16:25:26 | 41.99 | 38.69 | 720 | 1.76 | 0.28 | 39.4 |
| 4/26/2015 16:25:27 | 42.32 | 39.02 | 720 | 1.73 | 0.28 | 39.4 |
| 4/26/2015 16:25:27 | 42.65 | 39.35 | 724 | 1.74 | 0.28 | 39.6 |
| 4/26/2015 16:25:28 | 42.98 | 39.68 | 720 | 1.75 | 0.28 | 39.4 |
| 4/26/2015 16:25:28 | 43.31 | 40.01 | 717 | 1.74 | 0.28 | 39.2 |
| 4/26/2015 16:25:29 | 43.64 | 40.34 | 716 | 1.74 | 0.28 | 39.1 |
| 4/26/2015 16:25:29 | 43.96 | 40.66 | 720 | 1.74 | 0.28 | 39.4 |
| 4/26/2015 16:25:30 | 44.29 | 40.99 | 720 | 1.74 | 0.28 | 39.4 |
| 4/26/2015 16:25:30 | 44.62 | 41.32 | 715 | 1.75 | 0.28 | 39.1 |
| 4/26/2015 16:25:31 | 44.95 | 41.65 | 712 | 1.73 | 0.28 | 38.9 |
| 4/26/2015 16:25:32 | 45.28 | 41.98 | 719 | 1.76 | 0.28 | 39.3 |
| 4/26/2015 16:25:32 | 45.60 | 42.30 | 719 | 1.74 | 0.28 | 39.3 |
| 4/26/2015 16:25:33 | 45.93 | 42.63 | 719 | 1.73 | 0.28 | 39.3 |
| 4/26/2015 16:25:33 | 46.26 | 42.96 | 717 | 1.74 | 0.28 | 39.2 |
| 4/26/2015 16:25:34 | 46.59 | 43.29 | 720 | 1.74 | 0.28 | 39.4 |
| 4/26/2015 16:25:34 | 46.92 | 43.62 | 720 | 1.75 | 0.28 | 39.4 |
| 4/26/2015 16:25:35 | 47.24 | 43.94 | 717 | 1.74 | 0.28 | 39.2 |
| 4/26/2015 16:25:35 | 47.57 | 44.27 | 710 | 1.74 | 0.28 | 38.8 |
| 4/26/2015 16:25:36 | 47.90 | 44.60 | 710 | 1.74 | 0.28 | 38.8 |
| 4/26/2015 16:26:03 | 48.23 | 44.93 | 0 | 1.70 | 1.01 | 0.0 |
| 4/26/2015 16:26:04 | 48.56 | 45.26 | 132 | 1.70 | 0.91 | 7.2 |
| 4/26/2015 16:26:17 | 48.88 | 45.58 | 66 | 1.72 | 1.18 | 3.6 |
| 4/26/2015 16:26:18 | 49.21 | 45.91 | 168 | 1.70 | 1.35 | 9.2 |
| 4/26/2015 16:26:19 | 49.54 | 46.24 | 237 | 1.70 | 1.08 | 13.0 |
| 4/26/2015 16:26:20 | 49.87 | 46.57 | 301 | 1.69 | 0.99 | 16.5 |
| 4/26/2015 16:27:01 | 50.20 | 46.90 | 23 | 1.77 | 0.90 | 1.3 |
| 4/26/2015 16:27:02 | 50.53 | 47.23 | 163 | 1.70 | 1.07 | 8.9 |
| 4/26/2015 16:27:28 | 50.85 | 47.55 | 84 | 1.73 | 1.10 | 4.6 |
| 4/26/2015 16:27:29 | 51.18 | 47.88 | 195 | 1.73 | 1.17 | 10.7 |
| 4/26/2015 16:28:16 | 51.51 | 48.21 | 71 | 1.70 | 1.02 | 3.9 |
| 4/26/2015 16:28:18 | 51.84 | 48.54 | 128 | 1.70 | 0.96 | 7.0 |
| 4/26/2015 16:28:19 | 52.17 | 48.87 | 253 | 1.72 | 1.47 | 13.8 |
| 4/26/2015 16:28:44 | 52.49 | 49.19 | 9 | 1.73 | 1.32 | 0.5 |
| 4/26/2015 16:28:46 | 52.82 | 49.52 | 145 | 1.74 | 1.31 | 8.0 |
| 4/26/2015 16:28:47 | 53.15 | 49.85 | 207 | 1.72 | 1.11 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 16:28:49 | 53.48 | 50.18 | 229 | 1.75 | 1.29 | 12.5 |
| 4/26/2015 | 16:28:50 | 53.81 | 50.51 | 270 | 1.71 | 0.92 | 14.8 |
| 4/26/2015 | 16:29:41 | 54.13 | 50.83 | 46 | 1.68 | 0.88 | 2.5 |
| 4/26/2015 | 16:29:42 | 54.46 | 51.16 | 120 | 1.72 | 0.89 | 6.5 |
| 4/26/2015 | 16:29:43 | 54.79 | 51.49 | 247 | 1.73 | 0.85 | 13.5 |
| 4/26/2015 | 16:29:44 | 55.12 | 51.82 | 318 | 1.73 | 0.90 | 17.4 |
| 4/26/2015 | 16:29:45 | 55.45 | 52.15 | 304 | 1.72 | 0.90 | 16.6 |
| 4/26/2015 | 16:29:46 | 55.77 | 52.47 | 303 | 1.76 | 0.87 | 16.6 |
| 4/26/2015 | 16:29:47 | 56.10 | 52.80 | 314 | 1.71 | 0.89 | 17.2 |
| 4/26/2015 | 16:29:48 | 56.43 | 53.13 | 324 | 1.71 | 1.03 | 17.7 |
| 4/26/2015 | 16:29:49 | 56.76 | 53.46 | 308 | 1.72 | 1.13 | 16.9 |
| 4/26/2015 | 16:29:51 | 57.09 | 53.79 | 267 | 1.74 | 0.98 | 14.6 |
| 4/26/2015 | 16:29:53 | 57.41 | 54.11 | 242 | 1.74 | 1.09 | 13.3 |
| 4/26/2015 | 16:30:15 | 57.74 | 54.44 | 66 | 1.77 | 1.40 | 3.6 |
| 4/26/2015 | 16:30:17 | 58.07 | 54.77 | 174 | 1.76 | 1.51 | 9.5 |
| 4/26/2015 | 16:30:17 | 58.10 | 54.80 | 174 | 1.76 | 1.51 | 9.5 |

## H424 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 16:23:34

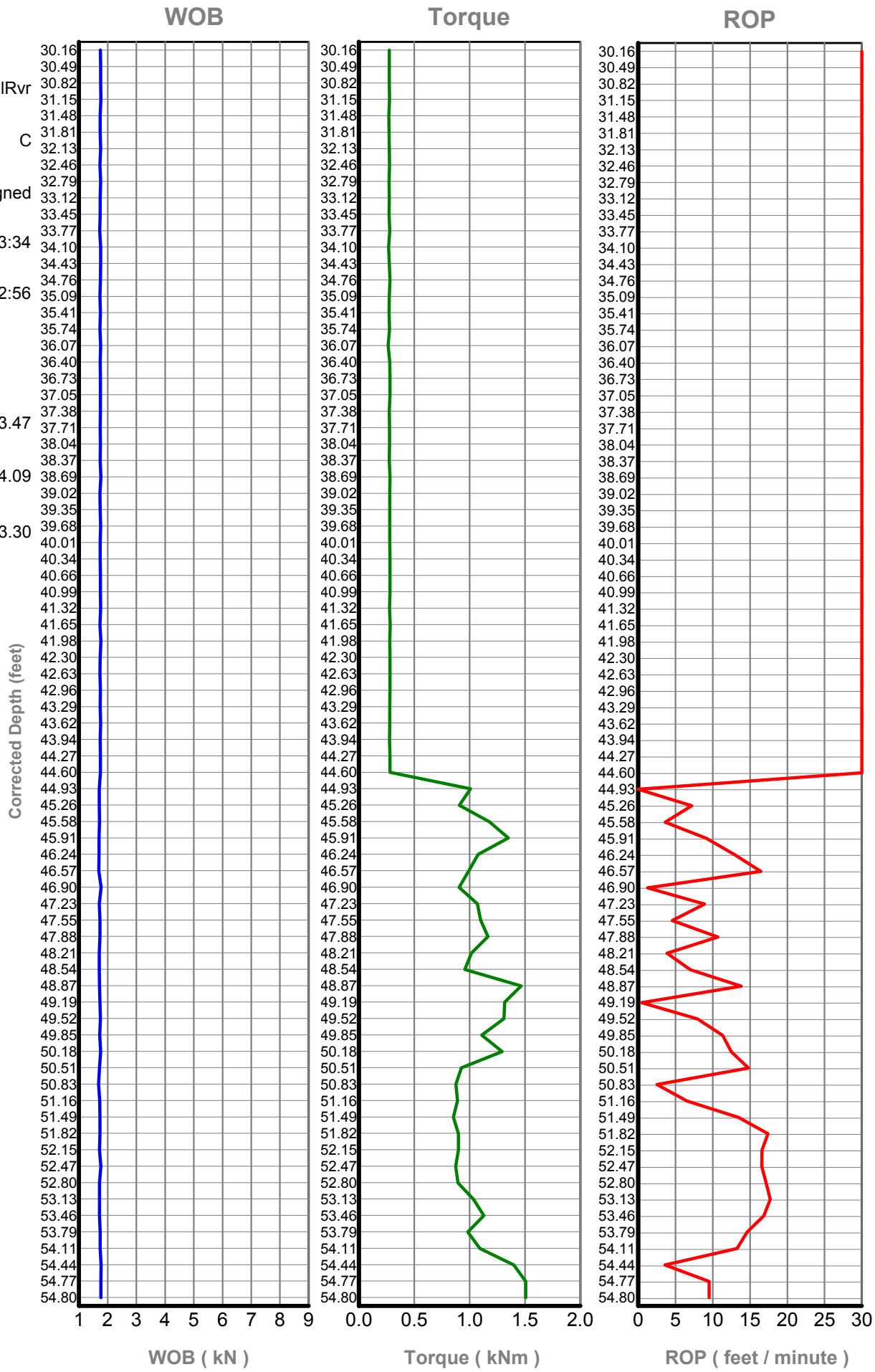
**End Date:**
4/26/2015 16:32:56

**Operator Note:**
'3.3 3.0 C Auto Complete'

**Northing:**
365,673.47

**Easting:**
250,284.09

**Tide (feet):**
3.30



## Hole: H425 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 6:06:39 | 36.09 | 30.19 | 989 | 0.34 | 0.32 | 54.1 |
| 4/26/2015 6:06:40 | 36.42 | 30.52 | 981 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:40 | 36.75 | 30.85 | 981 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:40 | 37.07 | 31.17 | 975 | 0.10 | 0.32 | 53.3 |
| 4/26/2015 6:06:41 | 37.40 | 31.50 | 981 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:41 | 37.73 | 31.83 | 968 | 0.34 | 0.32 | 52.9 |
| 4/26/2015 6:06:42 | 38.06 | 32.16 | 968 | 0.34 | 0.32 | 52.9 |
| 4/26/2015 6:06:42 | 38.39 | 32.49 | 968 | 0.34 | 0.32 | 52.9 |
| 4/26/2015 6:06:42 | 38.71 | 32.81 | 969 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:43 | 39.04 | 33.14 | 969 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:43 | 39.37 | 33.47 | 980 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:43 | 39.70 | 33.80 | 983 | 0.34 | 0.32 | 53.7 |
| 4/26/2015 6:06:44 | 40.03 | 34.13 | 983 | 0.34 | 0.32 | 53.7 |
| 4/26/2015 6:06:44 | 40.35 | 34.45 | 986 | 0.60 | 0.32 | 53.9 |
| 4/26/2015 6:06:44 | 40.68 | 34.78 | 986 | 0.34 | 0.32 | 53.9 |
| 4/26/2015 6:06:45 | 41.01 | 35.11 | 989 | 0.34 | 0.32 | 54.1 |
| 4/26/2015 6:06:45 | 41.34 | 35.44 | 989 | 0.34 | 0.32 | 54.1 |
| 4/26/2015 6:06:46 | 41.67 | 35.77 | 983 | 0.33 | 0.32 | 53.7 |
| 4/26/2015 6:06:46 | 41.99 | 36.09 | 980 | 0.34 | 0.31 | 53.6 |
| 4/26/2015 6:06:47 | 42.32 | 36.42 | 980 | 0.34 | 0.31 | 53.6 |
| 4/26/2015 6:06:47 | 42.65 | 36.75 | 974 | 0.34 | 0.32 | 53.3 |
| 4/26/2015 6:06:47 | 42.98 | 37.08 | 983 | 0.34 | 0.32 | 53.7 |
| 4/26/2015 6:06:48 | 43.31 | 37.41 | 983 | 0.34 | 0.32 | 53.7 |
| 4/26/2015 6:06:48 | 43.64 | 37.74 | 983 | 0.34 | 0.32 | 53.7 |
| 4/26/2015 6:06:48 | 43.96 | 38.06 | 986 | 0.34 | 0.32 | 53.9 |
| 4/26/2015 6:06:49 | 44.29 | 38.39 | 986 | 0.34 | 0.32 | 53.9 |
| 4/26/2015 6:06:49 | 44.62 | 38.72 | 986 | 0.34 | 0.32 | 53.9 |
| 4/26/2015 6:06:49 | 44.95 | 39.05 | 991 | 0.34 | 0.32 | 54.2 |
| 4/26/2015 6:06:50 | 45.28 | 39.38 | 980 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:50 | 45.60 | 39.70 | 980 | 0.34 | 0.32 | 53.6 |
| 4/26/2015 6:06:50 | 45.93 | 40.03 | 977 | 0.34 | 0.32 | 53.4 |
| 4/26/2015 6:06:51 | 46.26 | 40.36 | 965 | 0.34 | 0.32 | 52.8 |
| 4/26/2015 6:06:51 | 46.59 | 40.69 | 965 | 0.34 | 0.32 | 52.8 |
| 4/26/2015 6:06:51 | 46.92 | 41.02 | 971 | 0.34 | 0.32 | 53.1 |
| 4/26/2015 6:06:52 | 47.24 | 41.34 | 963 | 0.34 | 0.32 | 52.7 |
| 4/26/2015 6:06:52 | 47.57 | 41.67 | 968 | 0.34 | 0.32 | 53.0 |
| 4/26/2015 6:06:53 | 47.90 | 42.00 | 968 | 0.34 | 0.32 | 53.0 |
| 4/26/2015 6:06:53 | 48.23 | 42.33 | 968 | 0.34 | 0.32 | 53.0 |
| 4/26/2015 6:06:53 | 48.56 | 42.66 | 977 | 0.34 | 0.32 | 53.4 |
| 4/26/2015 6:06:54 | 48.88 | 42.98 | 977 | 0.34 | 0.32 | 53.4 |
| 4/26/2015 6:06:54 | 49.21 | 43.31 | 968 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:54 | 49.54 | 43.64 | 968 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:55 | 49.87 | 43.97 | 968 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:55 | 50.20 | 44.30 | 968 | 0.35 | 0.32 | 53.0 |
| 4/26/2015 6:06:55 | 50.53 | 44.63 | 971 | 0.34 | 0.32 | 53.1 |
| 4/26/2015 6:06:56 | 50.85 | 44.95 | 971 | 0.35 | 0.32 | 53.1 |
| 4/26/2015 6:06:57 | 51.18 | 45.28 | 971 | 0.35 | 0.32 | 53.1 |
| 4/26/2015 6:06:57 | 51.51 | 45.61 | 971 | 0.34 | 0.32 | 53.1 |
| 4/26/2015 6:06:57 | 51.84 | 45.94 | 966 | 0.34 | 0.34 | 52.8 |
| 4/26/2015 6:06:58 | 52.17 | 46.27 | 942 | 0.33 | 0.37 | 51.5 |
| 4/26/2015 6:07:06 | 52.49 | 46.59 | 21 | 3.38 | 0.38 | 1.1 |
| 4/26/2015 6:07:08 | 52.82 | 46.92 | 151 | 4.21 | 0.40 | 8.3 |
| 4/26/2015 6:07:09 | 53.15 | 47.25 | 266 | 4.08 | 0.37 | 14.6 |
| 4/26/2015 6:07:09 | 53.48 | 47.58 | 283 | 3.28 | 0.37 | 15.5 |
| 4/26/2015 6:07:10 | 53.81 | 47.91 | 410 | 4.00 | 0.36 | 22.4 |
| 4/26/2015 6:07:11 | 54.13 | 48.23 | 463 | 3.52 | 0.36 | 25.3 |
| 4/26/2015 6:07:12 | 54.46 | 48.56 | 463 | 2.87 | 0.36 | 25.3 |
| 4/26/2015 6:07:12 | 54.79 | 48.89 | 469 | 3.04 | 0.37 | 25.6 |
| 4/26/2015 6:07:13 | 55.12 | 49.22 | 466 | 3.20 | 0.36 | 25.5 |
| 4/26/2015 6:07:14 | 55.45 | 49.55 | 466 | 3.02 | 0.36 | 25.5 |
| 4/26/2015 6:07:15 | 55.77 | 49.87 | 468 | 3.55 | 0.37 | 25.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 6:07:15 | 56.10 | 50.20 | 474 | 2.74 | 0.36 | 25.9 |
| 4/26/2015 | 6:07:16 | 56.43 | 50.53 | 465 | 4.38 | 0.37 | 25.4 |
| 4/26/2015 | 6:07:18 | 56.76 | 50.86 | 420 | 3.53 | 0.37 | 22.9 |
| 4/26/2015 | 6:07:18 | 57.09 | 51.19 | 396 | 4.09 | 0.37 | 21.7 |
| 4/26/2015 | 6:07:19 | 57.41 | 51.51 | 385 | 2.71 | 0.37 | 21.0 |
| 4/26/2015 | 6:07:20 | 57.74 | 51.84 | 419 | 3.51 | 0.37 | 22.9 |
| 4/26/2015 | 6:07:21 | 58.07 | 52.17 | 428 | 2.76 | 0.36 | 23.4 |
| 4/26/2015 | 6:07:22 | 58.40 | 52.50 | 448 | 2.71 | 0.36 | 24.5 |
| 4/26/2015 | 6:07:22 | 58.73 | 52.83 | 462 | 4.05 | 0.36 | 25.3 |
| 4/26/2015 | 6:07:23 | 59.06 | 53.16 | 477 | 3.90 | 0.37 | 26.1 |
| 4/26/2015 | 6:07:24 | 59.38 | 53.48 | 414 | 5.34 | 0.38 | 22.6 |
| 4/26/2015 | 6:07:25 | 59.71 | 53.81 | 315 | 3.85 | 0.38 | 17.2 |
| 4/26/2015 | 6:07:27 | 60.04 | 54.14 | 275 | 4.32 | 0.38 | 15.0 |
| 4/26/2015 | 6:07:28 | 60.37 | 54.47 | 286 | 3.42 | 0.38 | 15.6 |
| 4/26/2015 | 6:07:29 | 60.70 | 54.80 | 295 | 4.43 | 0.38 | 16.1 |
| 4/26/2015 | 6:07:30 | 60.87 | 54.97 | 274 | 5.00 | 0.39 | 15.0 |

## H425 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 6:04:45

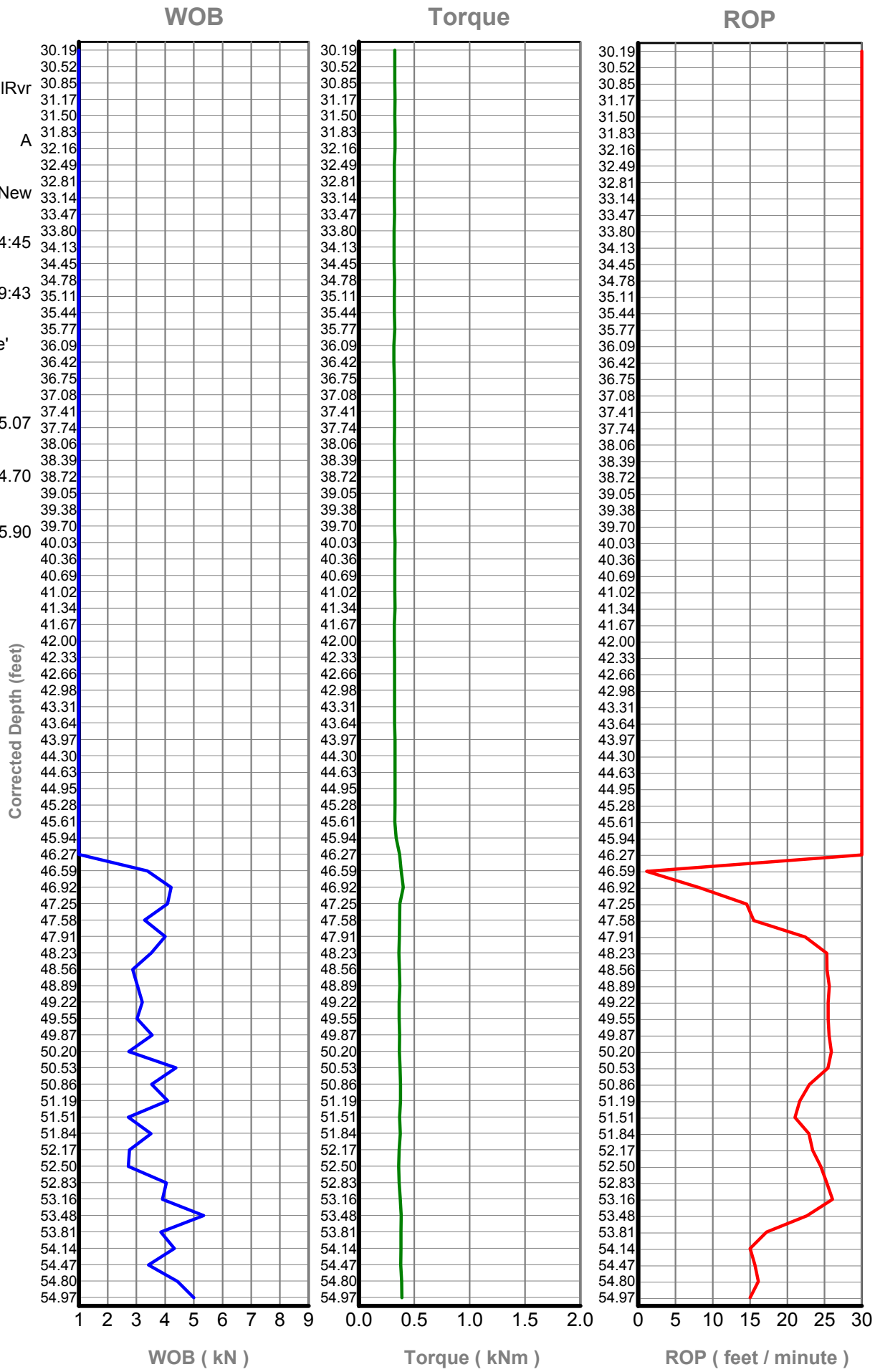
**End Date:**
4/26/2015 6:09:43

**Operator Note:**
'5.9 5.7 b Auto Complete'

**Northing:**
365,715.07

**Easting:**
250,344.70

**Tide (feet):**
5.90



## Hole: H426 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 6:13:23 | 36.09 | 30.19 | 1,010 | 0.33 | 0.32 | 55.2 |
| 4/26/2015 6:13:23 | 36.42 | 30.52 | 1,001 | 0.34 | 0.32 | 54.8 |
| 4/26/2015 6:13:23 | 36.75 | 30.85 | 995 | 0.34 | 0.32 | 54.4 |
| 4/26/2015 6:13:24 | 37.07 | 31.17 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:24 | 37.40 | 31.50 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:24 | 37.73 | 31.83 | 1,006 | 0.34 | 0.32 | 55.0 |
| 4/26/2015 6:13:25 | 38.06 | 32.16 | 992 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 6:13:25 | 38.39 | 32.49 | 992 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 6:13:25 | 38.71 | 32.81 | 998 | 0.34 | 0.32 | 54.6 |
| 4/26/2015 6:13:26 | 39.04 | 33.14 | 998 | 0.33 | 0.32 | 54.6 |
| 4/26/2015 6:13:26 | 39.37 | 33.47 | 998 | 0.33 | 0.32 | 54.6 |
| 4/26/2015 6:13:26 | 39.70 | 33.80 | 1,001 | 0.34 | 0.32 | 54.7 |
| 4/26/2015 6:13:27 | 40.03 | 34.13 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 6:13:27 | 40.35 | 34.45 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 6:13:27 | 40.68 | 34.78 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 6:13:28 | 41.01 | 35.11 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:28 | 41.34 | 35.44 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:28 | 41.67 | 35.77 | 998 | 0.33 | 0.32 | 54.5 |
| 4/26/2015 6:13:29 | 41.99 | 36.09 | 995 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:29 | 42.32 | 36.42 | 995 | 0.34 | 0.32 | 54.4 |
| 4/26/2015 6:13:30 | 42.65 | 36.75 | 995 | 0.34 | 0.32 | 54.4 |
| 4/26/2015 6:13:30 | 42.98 | 37.08 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/26/2015 6:13:30 | 43.31 | 37.41 | 997 | 0.33 | 0.32 | 54.5 |
| 4/26/2015 6:13:31 | 43.64 | 37.74 | 997 | 0.33 | 0.32 | 54.5 |
| 4/26/2015 6:13:31 | 43.96 | 38.06 | 997 | 0.33 | 0.32 | 54.5 |
| 4/26/2015 6:13:32 | 44.29 | 38.39 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:32 | 44.62 | 38.72 | 994 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:32 | 44.95 | 39.05 | 986 | 0.32 | 0.32 | 53.9 |
| 4/26/2015 6:13:33 | 45.28 | 39.38 | 995 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:33 | 45.60 | 39.70 | 995 | 0.33 | 0.32 | 54.4 |
| 4/26/2015 6:13:33 | 45.93 | 40.03 | 992 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 6:13:34 | 46.26 | 40.36 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:34 | 46.59 | 40.69 | 989 | 0.33 | 0.33 | 54.1 |
| 4/26/2015 6:13:35 | 46.92 | 41.02 | 989 | 0.33 | 0.33 | 54.1 |
| 4/26/2015 6:13:35 | 47.24 | 41.34 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:35 | 47.57 | 41.67 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 6:13:36 | 47.90 | 42.00 | 983 | 0.33 | 0.32 | 53.8 |
| 4/26/2015 6:13:36 | 48.23 | 42.33 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:36 | 48.56 | 42.66 | 980 | 0.33 | 0.32 | 53.6 |
| 4/26/2015 6:13:37 | 48.88 | 42.98 | 980 | 0.33 | 0.32 | 53.6 |
| 4/26/2015 6:13:37 | 49.21 | 43.31 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:37 | 49.54 | 43.64 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:38 | 49.87 | 43.97 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:38 | 50.20 | 44.30 | 989 | 0.33 | 0.32 | 54.1 |
| 4/26/2015 6:13:38 | 50.53 | 44.63 | 980 | 0.33 | 0.32 | 53.6 |
| 4/26/2015 6:13:39 | 50.85 | 44.95 | 991 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 6:13:39 | 51.18 | 45.28 | 991 | 0.33 | 0.32 | 54.2 |
| 4/26/2015 6:13:39 | 51.51 | 45.61 | 983 | 0.33 | 0.32 | 53.7 |
| 4/26/2015 6:13:40 | 51.84 | 45.94 | 971 | 0.31 | 0.36 | 53.1 |
| 4/26/2015 6:13:59 | 52.17 | 46.27 | 40 | 3.10 | 0.37 | 2.2 |
| 4/26/2015 6:14:00 | 52.49 | 46.59 | 109 | 4.22 | 0.36 | 5.9 |
| 4/26/2015 6:14:01 | 52.82 | 46.92 | 291 | 3.42 | 0.36 | 15.9 |
| 4/26/2015 6:14:01 | 53.15 | 47.25 | 394 | 3.48 | 0.36 | 21.6 |
| 4/26/2015 6:14:02 | 53.48 | 47.58 | 497 | 3.13 | 0.36 | 27.2 |
| 4/26/2015 6:14:03 | 53.81 | 47.91 | 509 | 3.14 | 0.37 | 27.8 |
| 4/26/2015 6:14:04 | 54.13 | 48.23 | 509 | 3.33 | 0.36 | 27.8 |
| 4/26/2015 6:14:04 | 54.46 | 48.56 | 509 | 3.08 | 0.37 | 27.8 |
| 4/26/2015 6:14:05 | 54.79 | 48.89 | 489 | 3.05 | 0.37 | 26.7 |
| 4/26/2015 6:14:06 | 55.12 | 49.22 | 486 | 3.18 | 0.37 | 26.6 |
| 4/26/2015 6:14:07 | 55.45 | 49.55 | 445 | 3.86 | 0.36 | 24.3 |
| 4/26/2015 6:14:08 | 55.77 | 49.87 | 439 | 2.96 | 0.37 | 24.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 6:14:08 | 56.10 | 50.20 | 436 | 3.79 | 0.38 | 23.9 |
| 4/26/2015 | 6:14:09 | 56.43 | 50.53 | 410 | 5.07 | 0.38 | 22.4 |
| 4/26/2015 | 6:14:22 | 56.76 | 50.86 | 76 | 5.51 | 0.39 | 4.2 |
| 4/26/2015 | 6:14:22 | 57.09 | 51.19 | 125 | 3.26 | 0.37 | 6.8 |
| 4/26/2015 | 6:14:23 | 57.41 | 51.51 | 308 | 2.83 | 0.36 | 16.8 |
| 4/26/2015 | 6:14:24 | 57.74 | 51.84 | 308 | 2.90 | 0.37 | 16.8 |
| 4/26/2015 | 6:14:25 | 58.07 | 52.17 | 439 | 2.32 | 0.35 | 24.0 |
| 4/26/2015 | 6:14:26 | 58.40 | 52.50 | 514 | 2.04 | 0.33 | 28.1 |
| 4/26/2015 | 6:14:26 | 58.73 | 52.83 | 571 | 2.62 | 0.36 | 31.2 |
| 4/26/2015 | 6:14:27 | 59.06 | 53.16 | 599 | 3.37 | 0.37 | 32.8 |
| 4/26/2015 | 6:14:28 | 59.38 | 53.48 | 403 | 4.60 | 0.38 | 22.0 |
| 4/26/2015 | 6:14:29 | 59.71 | 53.81 | 240 | 3.49 | 0.37 | 13.1 |
| 4/26/2015 | 6:14:30 | 60.04 | 54.14 | 266 | 2.99 | 0.37 | 14.5 |
| 4/26/2015 | 6:14:31 | 60.37 | 54.47 | 366 | 3.38 | 0.38 | 20.0 |
| 4/26/2015 | 6:14:33 | 60.70 | 54.80 | 325 | 4.41 | 0.39 | 17.8 |
| 4/26/2015 | 6:14:33 | 60.81 | 54.91 | 290 | 4.28 | 0.40 | 15.9 |

## H426 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/26/2015 6:11:12

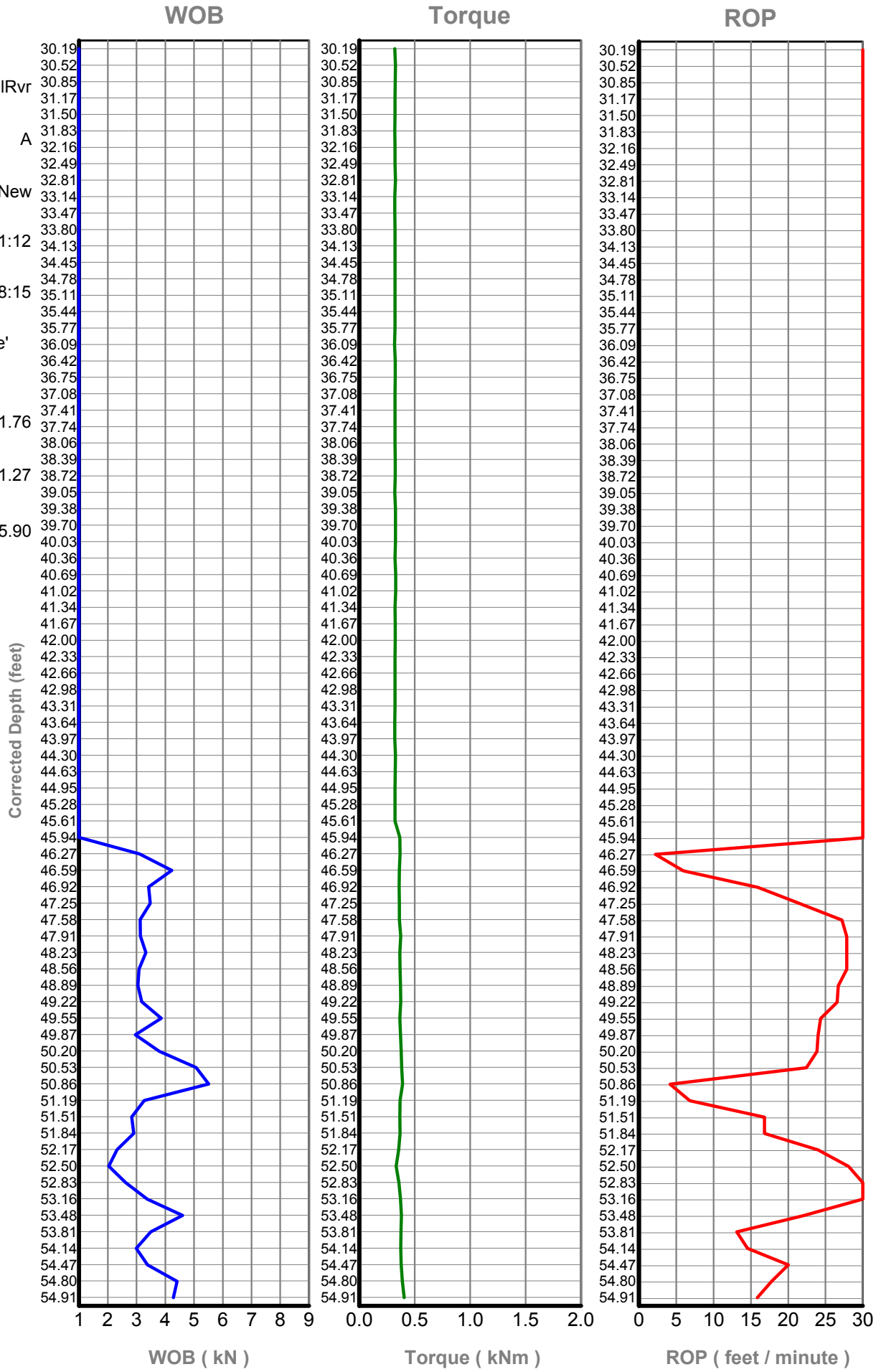
**End Date:**
4/26/2015 6:18:15

**Operator Note:**
'5.9 5.8 b Auto Complete'

**Northing:**
365,751.76

**Easting:**
250,391.27

**Tide (feet):**
5.90



## Hole: H427 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 6:01:49 | 36.09 | 30.29 | 541 | 1.79 | 0.15 | 29.6 |
| 4/26/2015 6:01:50 | 36.42 | 30.62 | 538 | 1.81 | 0.15 | 29.4 |
| 4/26/2015 6:01:50 | 36.75 | 30.95 | 538 | 1.78 | 0.15 | 29.4 |
| 4/26/2015 6:01:51 | 37.07 | 31.27 | 540 | 1.77 | 0.16 | 29.6 |
| 4/26/2015 6:01:52 | 37.40 | 31.60 | 544 | 1.82 | 0.15 | 29.7 |
| 4/26/2015 6:01:52 | 37.73 | 31.93 | 541 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 6:01:53 | 38.06 | 32.26 | 537 | 1.80 | 0.16 | 29.4 |
| 4/26/2015 6:01:54 | 38.39 | 32.59 | 541 | 1.78 | 0.16 | 29.6 |
| 4/26/2015 6:01:54 | 38.71 | 32.91 | 538 | 1.79 | 0.16 | 29.4 |
| 4/26/2015 6:01:55 | 39.04 | 33.24 | 538 | 1.79 | 0.15 | 29.4 |
| 4/26/2015 6:01:56 | 39.37 | 33.57 | 538 | 1.79 | 0.15 | 29.4 |
| 4/26/2015 6:01:56 | 39.70 | 33.90 | 541 | 1.77 | 0.16 | 29.6 |
| 4/26/2015 6:01:57 | 40.03 | 34.23 | 535 | 1.81 | 0.15 | 29.2 |
| 4/26/2015 6:01:57 | 40.35 | 34.55 | 529 | 1.76 | 0.16 | 28.9 |
| 4/26/2015 6:01:58 | 40.68 | 34.88 | 534 | 1.79 | 0.16 | 29.2 |
| 4/26/2015 6:01:59 | 41.01 | 35.21 | 531 | 1.76 | 0.16 | 29.0 |
| 4/26/2015 6:02:00 | 41.34 | 35.54 | 528 | 1.81 | 0.15 | 28.8 |
| 4/26/2015 6:02:01 | 41.67 | 35.87 | 540 | 1.76 | 0.16 | 29.5 |
| 4/26/2015 6:02:02 | 41.99 | 36.19 | 532 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 6:02:03 | 42.32 | 36.52 | 532 | 1.80 | 0.16 | 29.1 |
| 4/26/2015 6:02:02 | 42.65 | 36.85 | 535 | 1.79 | 0.15 | 29.3 |
| 4/26/2015 6:02:03 | 42.98 | 37.18 | 532 | 1.79 | 0.13 | 29.1 |
| 4/26/2015 6:02:04 | 43.31 | 37.51 | 535 | 1.78 | 0.16 | 29.3 |
| 4/26/2015 6:02:04 | 43.64 | 37.84 | 535 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 6:02:05 | 43.96 | 38.16 | 535 | 1.79 | 0.16 | 29.3 |
| 4/26/2015 6:02:06 | 44.29 | 38.49 | 535 | 1.76 | 0.16 | 29.2 |
| 4/26/2015 6:02:06 | 44.62 | 38.82 | 535 | 1.79 | 0.16 | 29.2 |
| 4/26/2015 6:02:07 | 44.95 | 39.15 | 535 | 1.79 | 0.16 | 29.2 |
| 4/26/2015 6:02:08 | 45.28 | 39.48 | 535 | 1.80 | 0.15 | 29.3 |
| 4/26/2015 6:02:09 | 45.60 | 39.80 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 6:02:09 | 45.93 | 40.13 | 518 | 1.77 | 0.16 | 28.3 |
| 4/26/2015 6:02:10 | 46.26 | 40.46 | 518 | 1.80 | 0.15 | 28.3 |
| 4/26/2015 6:02:11 | 46.59 | 40.79 | 531 | 1.79 | 0.16 | 29.0 |
| 4/26/2015 6:02:11 | 46.92 | 41.12 | 525 | 1.76 | 0.16 | 28.7 |
| 4/26/2015 6:02:12 | 47.24 | 41.44 | 527 | 1.80 | 0.16 | 28.8 |
| 4/26/2015 6:02:13 | 47.57 | 41.77 | 530 | 1.80 | 0.16 | 29.0 |
| 4/26/2015 6:02:13 | 47.90 | 42.10 | 525 | 1.78 | 0.16 | 28.7 |
| 4/26/2015 6:02:14 | 48.23 | 42.43 | 531 | 1.81 | 0.16 | 29.1 |
| 4/26/2015 6:02:14 | 48.56 | 42.76 | 531 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 6:02:15 | 48.88 | 43.08 | 540 | 1.77 | 0.16 | 29.5 |
| 4/26/2015 6:02:16 | 49.21 | 43.41 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 6:02:16 | 49.54 | 43.74 | 535 | 1.79 | 0.16 | 29.3 |
| 4/26/2015 6:02:17 | 49.87 | 44.07 | 532 | 1.76 | 0.16 | 29.1 |
| 4/26/2015 6:02:18 | 50.20 | 44.40 | 535 | 1.78 | 0.16 | 29.3 |
| 4/26/2015 6:02:18 | 50.53 | 44.73 | 542 | 1.79 | 0.10 | 29.6 |
| 4/26/2015 6:02:19 | 50.85 | 45.05 | 535 | 1.81 | 0.16 | 29.3 |
| 4/26/2015 6:02:20 | 51.18 | 45.38 | 532 | 1.79 | 0.16 | 29.1 |
| 4/26/2015 6:02:56 | 51.51 | 45.71 | 26 | 1.84 | 1.05 | 1.4 |
| 4/26/2015 6:02:56 | 51.84 | 46.04 | 126 | 1.81 | 1.10 | 6.9 |
| 4/26/2015 6:02:57 | 52.17 | 46.37 | 317 | 1.78 | 1.12 | 17.4 |
| 4/26/2015 6:03:10 | 52.49 | 46.69 | 15 | 1.75 | 1.15 | 0.8 |
| 4/26/2015 6:03:12 | 52.82 | 47.02 | 115 | 1.76 | 1.13 | 6.3 |
| 4/26/2015 6:03:16 | 53.15 | 47.35 | 50 | 1.76 | 1.04 | 2.7 |
| 4/26/2015 6:03:39 | 53.48 | 47.68 | 0 | 1.72 | 1.13 | 0.0 |
| 4/26/2015 6:03:54 | 53.81 | 48.01 | 0 | 1.72 | 1.17 | 0.0 |
| 4/26/2015 6:03:56 | 54.13 | 48.33 | 115 | 1.77 | 1.32 | 6.3 |
| 4/26/2015 6:03:58 | 54.46 | 48.66 | 208 | 1.76 | 1.14 | 11.4 |
| 4/26/2015 6:04:17 | 54.79 | 48.99 | 56 | 1.95 | 1.22 | 3.1 |
| 4/26/2015 6:04:19 | 55.12 | 49.32 | 127 | 1.77 | 1.09 | 7.0 |
| 4/26/2015 6:04:44 | 55.45 | 49.65 | 61 | 1.76 | 1.31 | 3.3 |
| 4/26/2015 6:04:46 | 55.77 | 49.97 | 188 | 1.73 | 1.08 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 6:04:47 | 56.10 | 50.30 | 233 | 1.73 | 1.10 | 12.7 |
| 4/26/2015 | 6:04:49 | 56.43 | 50.63 | 263 | 1.75 | 1.22 | 14.4 |
| 4/26/2015 | 6:04:50 | 56.76 | 50.96 | 250 | 1.72 | 1.09 | 13.7 |
| 4/26/2015 | 6:04:53 | 57.09 | 51.29 | 155 | 1.77 | 1.39 | 8.5 |
| 4/26/2015 | 6:04:55 | 57.41 | 51.61 | 111 | 1.75 | 1.31 | 6.0 |
| 4/26/2015 | 6:04:57 | 57.74 | 51.94 | 197 | 1.78 | 1.21 | 10.8 |
| 4/26/2015 | 6:04:59 | 58.07 | 52.27 | 205 | 1.74 | 1.13 | 11.2 |
| 4/26/2015 | 6:05:00 | 58.40 | 52.60 | 228 | 1.75 | 1.13 | 12.5 |
| 4/26/2015 | 6:05:02 | 58.73 | 52.93 | 233 | 1.78 | 1.55 | 12.7 |
| 4/26/2015 | 6:05:04 | 59.06 | 53.26 | 139 | 1.75 | 1.15 | 7.6 |
| 4/26/2015 | 6:05:06 | 59.38 | 53.58 | 215 | 1.78 | 1.30 | 11.8 |
| 4/26/2015 | 6:05:19 | 59.71 | 53.91 | 43 | 1.73 | 1.15 | 2.4 |
| 4/26/2015 | 6:05:21 | 60.04 | 54.24 | 201 | 1.77 | 1.20 | 11.0 |
| 4/26/2015 | 6:05:23 | 60.37 | 54.57 | 161 | 1.76 | 1.21 | 8.8 |
| 4/26/2015 | 6:05:25 | 60.70 | 54.90 | 154 | 1.76 | 1.54 | 8.4 |
| 4/26/2015 | 6:05:25 | 60.76 | 54.96 | 154 | 1.76 | 1.54 | 8.4 |

## H427 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 5:59:31

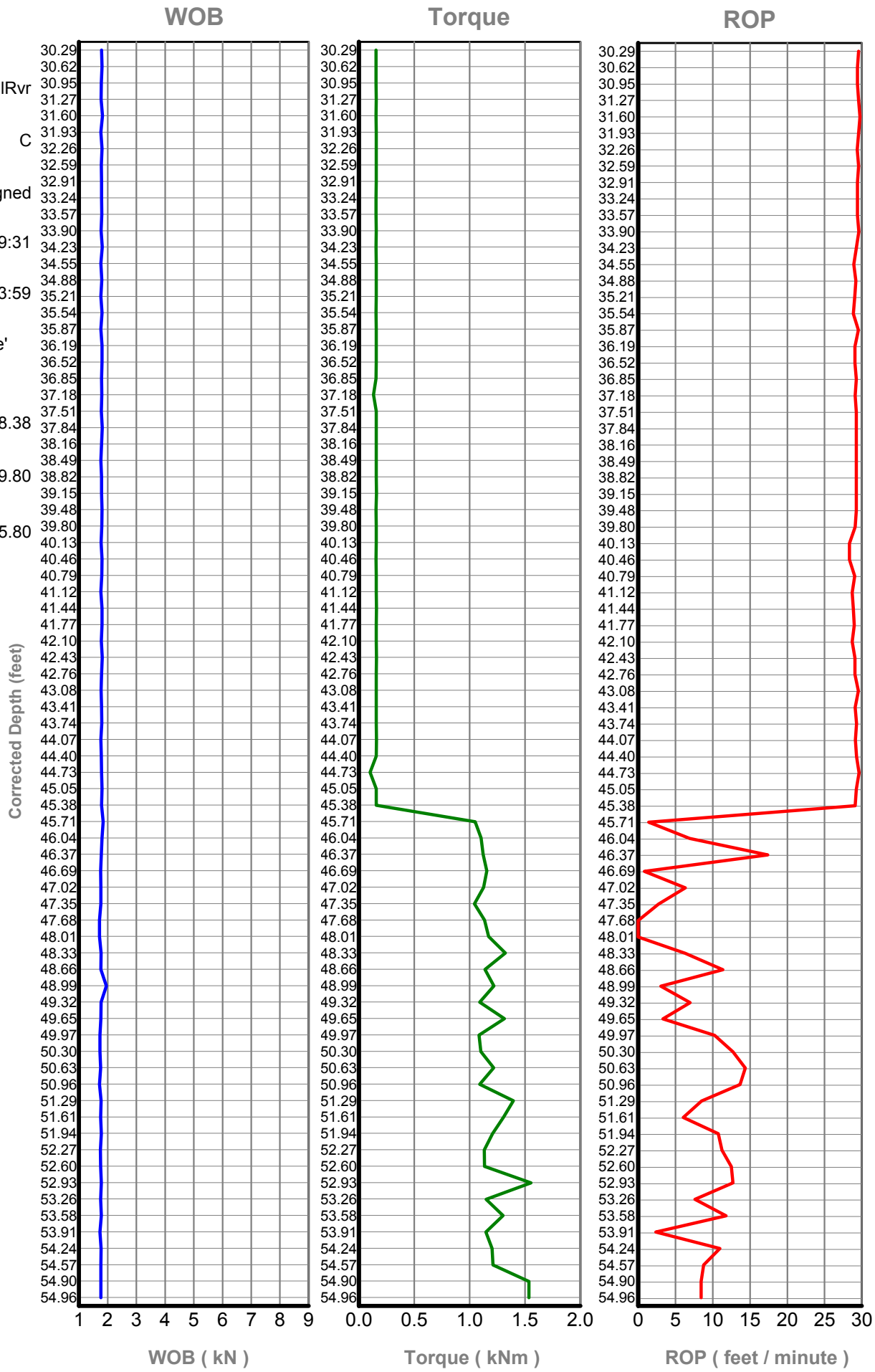
**End Date:**
4/26/2015 6:13:59

**Operator Note:**
'5.8 5.7 c Auto Complete'

**Northing:**
365,798.38

**Easting:**
250,449.80

**Tide (feet):**
5.80



## Hole: H428 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 5:24:28 | 35.43 | 30.23 | 931 | 0.22 | 0.36 | 50.9 |
| 4/26/2015 5:24:28 | 35.76 | 30.56 | 928 | 0.22 | 0.37 | 50.7 |
| 4/26/2015 5:24:29 | 36.09 | 30.89 | 925 | 0.22 | 0.36 | 50.6 |
| 4/26/2015 5:24:29 | 36.42 | 31.22 | 925 | 0.19 | 0.36 | 50.6 |
| 4/26/2015 5:24:30 | 36.75 | 31.55 | 925 | 0.19 | 0.36 | 50.6 |
| 4/26/2015 5:24:36 | 37.07 | 31.87 | 0 | 0.16 | 0.33 | 0.0 |
| 4/26/2015 5:24:36 | 37.40 | 32.20 | 126 | 0.16 | 0.32 | 6.9 |
| 4/26/2015 5:24:37 | 37.73 | 32.53 | 329 | 0.16 | 0.31 | 18.0 |
| 4/26/2015 5:24:37 | 38.06 | 32.86 | 329 | 0.16 | 0.31 | 18.0 |
| 4/26/2015 5:24:37 | 38.39 | 33.19 | 529 | 0.17 | 0.31 | 28.9 |
| 4/26/2015 5:24:38 | 38.71 | 33.51 | 734 | 0.16 | 0.32 | 40.2 |
| 4/26/2015 5:24:38 | 39.04 | 33.84 | 734 | 0.16 | 0.32 | 40.2 |
| 4/26/2015 5:24:38 | 39.37 | 34.17 | 946 | 0.16 | 0.32 | 51.7 |
| 4/26/2015 5:24:39 | 39.70 | 34.50 | 946 | 0.16 | 0.32 | 51.7 |
| 4/26/2015 5:24:39 | 40.03 | 34.83 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/26/2015 5:24:39 | 40.35 | 35.15 | 1,023 | 0.16 | 0.31 | 55.9 |
| 4/26/2015 5:24:40 | 40.68 | 35.48 | 1,023 | 0.16 | 0.31 | 55.9 |
| 4/26/2015 5:24:40 | 41.01 | 35.81 | 1,035 | 0.17 | 0.32 | 56.6 |
| 4/26/2015 5:24:40 | 41.34 | 36.14 | 1,029 | 0.16 | 0.32 | 56.3 |
| 4/26/2015 5:24:41 | 41.67 | 36.47 | 1,026 | 0.16 | 0.31 | 56.1 |
| 4/26/2015 5:24:41 | 41.99 | 36.79 | 1,026 | 0.16 | 0.31 | 56.1 |
| 4/26/2015 5:24:41 | 42.32 | 37.12 | 1,026 | 0.16 | 0.32 | 56.1 |
| 4/26/2015 5:24:42 | 42.65 | 37.45 | 1,026 | 0.16 | 0.32 | 56.1 |
| 4/26/2015 5:24:42 | 42.98 | 37.78 | 1,036 | 0.16 | 0.31 | 56.6 |
| 4/26/2015 5:24:42 | 43.31 | 38.11 | 1,023 | 0.16 | 0.32 | 56.0 |
| 4/26/2015 5:24:43 | 43.64 | 38.44 | 1,026 | 0.16 | 0.31 | 56.1 |
| 4/26/2015 5:24:43 | 43.96 | 38.76 | 1,026 | 0.16 | 0.31 | 56.1 |
| 4/26/2015 5:24:43 | 44.29 | 39.09 | 1,026 | 0.16 | 0.31 | 56.1 |
| 4/26/2015 5:24:44 | 44.62 | 39.42 | 1,026 | 0.16 | 0.32 | 56.1 |
| 4/26/2015 5:24:44 | 44.95 | 39.75 | 1,026 | 0.16 | 0.32 | 56.1 |
| 4/26/2015 5:24:44 | 45.28 | 40.08 | 1,023 | 0.16 | 0.31 | 56.0 |
| 4/26/2015 5:24:45 | 45.60 | 40.40 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/26/2015 5:24:46 | 45.93 | 40.73 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/26/2015 5:24:45 | 46.26 | 41.06 | 1,018 | 0.17 | 0.32 | 55.6 |
| 4/26/2015 5:24:46 | 46.59 | 41.39 | 1,018 | 0.17 | 0.32 | 55.6 |
| 4/26/2015 5:24:47 | 46.92 | 41.72 | 1,018 | 0.17 | 0.32 | 55.6 |
| 4/26/2015 5:24:47 | 47.24 | 42.04 | 1,018 | 0.17 | 0.32 | 55.6 |
| 4/26/2015 5:24:47 | 47.57 | 42.37 | 1,015 | 0.16 | 0.32 | 55.5 |
| 4/26/2015 5:24:48 | 47.90 | 42.70 | 1,015 | 0.16 | 0.32 | 55.5 |
| 4/26/2015 5:24:48 | 48.23 | 43.03 | 1,018 | 0.20 | 0.31 | 55.6 |
| 4/26/2015 5:24:48 | 48.56 | 43.36 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/26/2015 5:24:49 | 48.88 | 43.68 | 1,023 | 0.17 | 0.32 | 56.0 |
| 4/26/2015 5:24:49 | 49.21 | 44.01 | 1,020 | 0.16 | 0.32 | 55.8 |
| 4/26/2015 5:24:49 | 49.54 | 44.34 | 1,020 | 0.17 | 0.32 | 55.8 |
| 4/26/2015 5:24:50 | 49.87 | 44.67 | 1,020 | 0.17 | 0.32 | 55.8 |
| 4/26/2015 5:24:50 | 50.20 | 45.00 | 1,017 | 0.16 | 0.34 | 55.6 |
| 4/26/2015 5:24:50 | 50.53 | 45.33 | 994 | 0.16 | 0.38 | 54.3 |
| 4/26/2015 5:26:09 | 50.85 | 45.65 | 3 | 3.79 | 0.38 | 0.2 |
| 4/26/2015 5:26:11 | 51.18 | 45.98 | 133 | 3.81 | 0.37 | 7.3 |
| 4/26/2015 5:26:24 | 51.51 | 46.31 | 0 | 3.45 | 0.31 | 0.0 |
| 4/26/2015 5:26:49 | 51.84 | 46.64 | 25 | 2.59 | 0.37 | 1.4 |
| 4/26/2015 5:26:52 | 52.17 | 46.97 | 225 | 8.27 | 0.41 | 12.3 |
| 4/26/2015 5:26:56 | 52.49 | 47.29 | 84 | 2.78 | 0.37 | 4.6 |
| 4/26/2015 5:26:57 | 52.82 | 47.62 | 217 | 4.57 | 0.38 | 11.8 |
| 4/26/2015 5:27:22 | 53.15 | 47.95 | 101 | 2.69 | 0.39 | 5.5 |
| 4/26/2015 5:27:30 | 53.48 | 48.28 | 20 | 5.76 | 0.40 | 1.1 |
| 4/26/2015 5:27:33 | 53.81 | 48.61 | 61 | 3.58 | 0.39 | 3.3 |
| 4/26/2015 5:27:37 | 54.13 | 48.93 | 64 | 4.26 | 0.38 | 3.5 |
| 4/26/2015 5:27:50 | 54.46 | 49.26 | 33 | 4.26 | 0.37 | 1.8 |
| 4/26/2015 5:27:51 | 54.79 | 49.59 | 65 | 4.29 | 0.37 | 3.5 |
| 4/26/2015 5:27:52 | 55.12 | 49.92 | 145 | 2.25 | 0.35 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 5:27:52 | 55.45 | 50.25 | 245 | 1.98 | 0.35 | 13.4 |
| 4/26/2015 | 5:27:53 | 55.77 | 50.57 | 373 | 2.57 | 0.35 | 20.4 |
| 4/26/2015 | 5:27:54 | 56.10 | 50.90 | 537 | 3.81 | 0.37 | 29.4 |
| 4/26/2015 | 5:27:55 | 56.43 | 51.23 | 534 | 3.29 | 0.37 | 29.2 |
| 4/26/2015 | 5:27:56 | 56.76 | 51.56 | 374 | 2.88 | 0.38 | 20.4 |
| 4/26/2015 | 5:27:59 | 57.09 | 51.89 | 88 | 5.35 | 0.38 | 4.8 |
| 4/26/2015 | 5:28:40 | 57.41 | 52.21 | 75 | 8.01 | 0.40 | 4.1 |
| 4/26/2015 | 5:28:43 | 57.74 | 52.54 | 66 | 2.35 | 0.35 | 3.6 |
| 4/26/2015 | 5:28:44 | 58.07 | 52.87 | 174 | 2.57 | 0.37 | 9.5 |
| 4/26/2015 | 5:28:45 | 58.40 | 53.20 | 304 | 2.86 | 0.38 | 16.6 |
| 4/26/2015 | 5:28:47 | 58.73 | 53.53 | 329 | 6.26 | 0.40 | 18.0 |
| 4/26/2015 | 5:28:50 | 59.06 | 53.86 | 102 | 6.55 | 0.39 | 5.6 |
| 4/26/2015 | 5:28:53 | 59.38 | 54.18 | 101 | 2.83 | 0.39 | 5.5 |
| 4/26/2015 | 5:29:02 | 59.71 | 54.51 | 11 | 4.44 | 0.38 | 0.6 |
| 4/26/2015 | 5:29:03 | 59.88 | 54.68 | 113 | 3.99 | 0.34 | 6.2 |

## H428 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 5:20:23

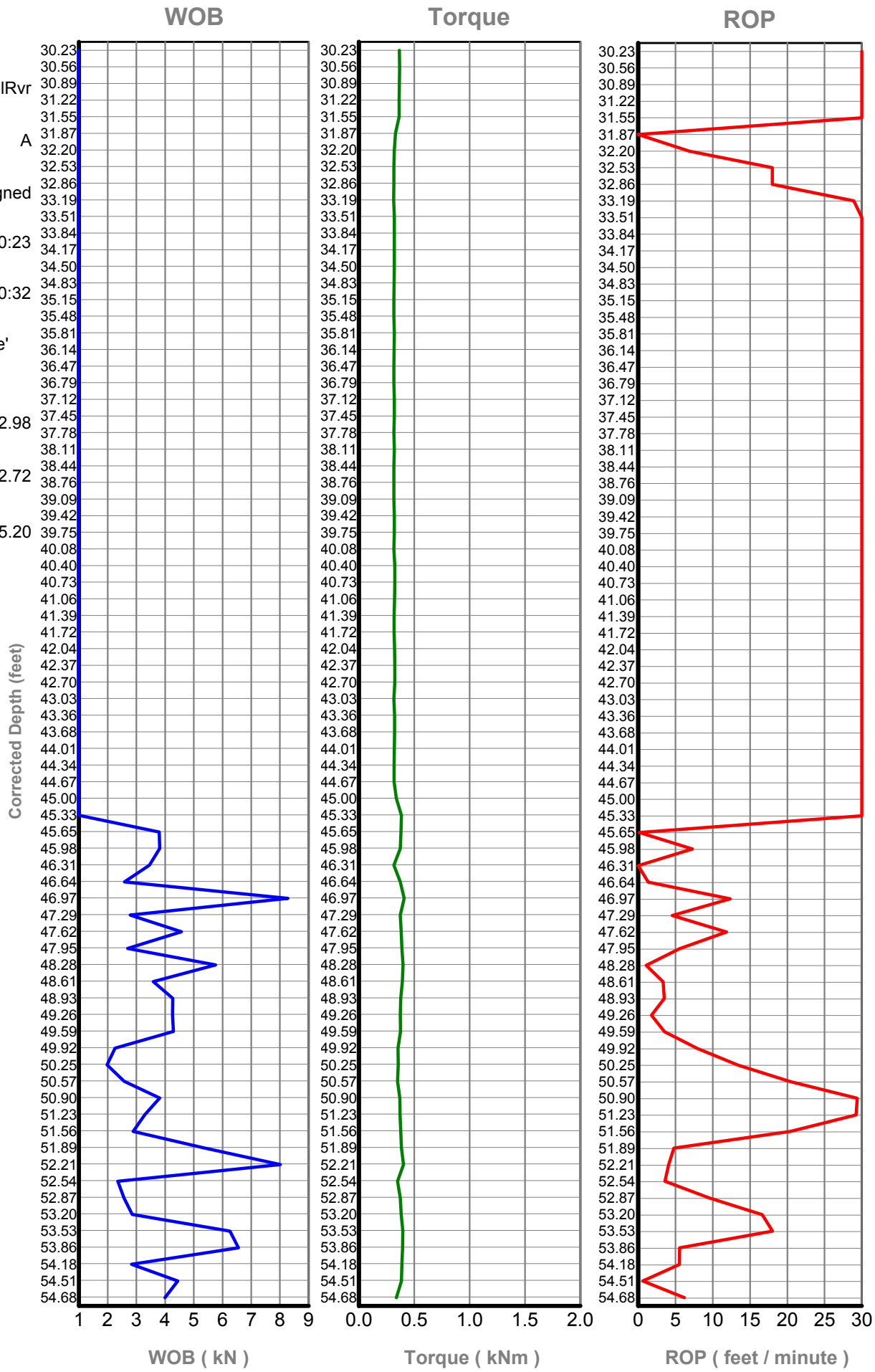
**End Date:**
4/26/2015 5:40:32

**Operator Note:**
'5.2 4.8 b Auto Complete'

**Northing:**
365,862.98

**Easting:**
250,532.72

**Tide (feet):**
5.20



## Hole: H429 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 5:32:01 | 35.43 | 30.13 | 639 | 1.79 | 0.16 | 34.9 |
| 4/26/2015 5:32:01 | 35.76 | 30.46 | 639 | 1.77 | 0.16 | 34.9 |
| 4/26/2015 5:32:02 | 36.09 | 30.79 | 635 | 1.79 | 0.16 | 34.7 |
| 4/26/2015 5:32:02 | 36.42 | 31.12 | 636 | 1.78 | 0.16 | 34.8 |
| 4/26/2015 5:32:03 | 36.75 | 31.45 | 636 | 1.79 | 0.16 | 34.8 |
| 4/26/2015 5:32:03 | 37.07 | 31.77 | 633 | 1.76 | 0.15 | 34.6 |
| 4/26/2015 5:32:04 | 37.40 | 32.10 | 639 | 1.76 | 0.15 | 35.0 |
| 4/26/2015 5:32:04 | 37.73 | 32.43 | 643 | 1.79 | 0.16 | 35.2 |
| 4/26/2015 5:32:05 | 38.06 | 32.76 | 639 | 1.77 | 0.16 | 34.9 |
| 4/26/2015 5:32:05 | 38.39 | 33.09 | 636 | 1.79 | 0.16 | 34.8 |
| 4/26/2015 5:32:06 | 38.71 | 33.41 | 643 | 1.78 | 0.16 | 35.1 |
| 4/26/2015 5:32:06 | 39.04 | 33.74 | 636 | 1.78 | 0.16 | 34.8 |
| 4/26/2015 5:32:07 | 39.37 | 34.07 | 630 | 1.78 | 0.16 | 34.4 |
| 4/26/2015 5:32:08 | 39.70 | 34.40 | 639 | 1.80 | 0.16 | 35.0 |
| 4/26/2015 5:32:08 | 40.03 | 34.73 | 622 | 1.80 | 0.16 | 34.0 |
| 4/26/2015 5:32:09 | 40.35 | 35.05 | 622 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 5:32:10 | 40.68 | 35.38 | 630 | 1.80 | 0.15 | 34.5 |
| 4/26/2015 5:32:10 | 41.01 | 35.71 | 630 | 1.79 | 0.15 | 34.5 |
| 4/26/2015 5:32:11 | 41.34 | 36.04 | 636 | 1.79 | 0.15 | 34.8 |
| 4/26/2015 5:32:11 | 41.67 | 36.37 | 620 | 1.78 | 0.15 | 33.9 |
| 4/26/2015 5:32:12 | 41.99 | 36.69 | 620 | 1.80 | 0.15 | 33.9 |
| 4/26/2015 5:32:12 | 42.32 | 37.02 | 638 | 1.79 | 0.17 | 34.9 |
| 4/26/2015 5:32:13 | 42.65 | 37.35 | 623 | 1.79 | 0.15 | 34.1 |
| 4/26/2015 5:32:13 | 42.98 | 37.68 | 620 | 1.76 | 0.16 | 33.9 |
| 4/26/2015 5:32:14 | 43.31 | 38.01 | 620 | 1.80 | 0.15 | 33.9 |
| 4/26/2015 5:32:15 | 43.64 | 38.34 | 617 | 1.79 | 0.15 | 33.7 |
| 4/26/2015 5:32:15 | 43.96 | 38.66 | 617 | 1.79 | 0.15 | 33.7 |
| 4/26/2015 5:32:16 | 44.29 | 38.99 | 632 | 1.77 | 0.16 | 34.5 |
| 4/26/2015 5:32:16 | 44.62 | 39.32 | 622 | 1.81 | 0.16 | 34.0 |
| 4/26/2015 5:32:17 | 44.95 | 39.65 | 622 | 1.79 | 0.15 | 34.0 |
| 4/26/2015 5:32:17 | 45.28 | 39.98 | 628 | 1.79 | 0.16 | 34.3 |
| 4/26/2015 5:32:18 | 45.60 | 40.30 | 620 | 1.78 | 0.16 | 33.9 |
| 4/26/2015 5:32:26 | 45.93 | 40.63 | 0 | 1.79 | 0.15 | 0.0 |
| 4/26/2015 5:32:26 | 46.26 | 40.96 | 80 | 1.81 | 0.15 | 4.4 |
| 4/26/2015 5:32:27 | 46.59 | 41.29 | 188 | 1.78 | 0.15 | 10.3 |
| 4/26/2015 5:32:28 | 46.92 | 41.62 | 313 | 1.77 | 0.15 | 17.1 |
| 4/26/2015 5:32:28 | 47.24 | 41.94 | 418 | 1.81 | 0.15 | 22.9 |
| 4/26/2015 5:32:29 | 47.57 | 42.27 | 418 | 1.78 | 0.15 | 22.9 |
| 4/26/2015 5:32:30 | 47.90 | 42.60 | 538 | 1.79 | 0.15 | 29.4 |
| 4/26/2015 5:32:30 | 48.23 | 42.93 | 560 | 1.80 | 0.15 | 30.6 |
| 4/26/2015 5:32:31 | 48.56 | 43.26 | 575 | 1.79 | 0.15 | 31.5 |
| 4/26/2015 5:32:32 | 48.88 | 43.58 | 568 | 1.80 | 0.15 | 31.1 |
| 4/26/2015 5:32:32 | 49.21 | 43.91 | 574 | 1.79 | 0.15 | 31.4 |
| 4/26/2015 5:32:42 | 49.54 | 44.24 | 0 | 1.77 | 0.15 | 0.0 |
| 4/26/2015 5:32:43 | 49.87 | 44.57 | 192 | 1.80 | 0.15 | 10.5 |
| 4/26/2015 5:32:43 | 50.20 | 44.90 | 297 | 1.79 | 0.15 | 16.3 |
| 4/26/2015 5:32:44 | 50.53 | 45.23 | 406 | 1.82 | 0.15 | 22.2 |
| 4/26/2015 5:32:45 | 50.85 | 45.55 | 535 | 1.77 | 0.15 | 29.2 |
| 4/26/2015 5:33:31 | 51.18 | 45.88 | 3 | 1.79 | 1.14 | 0.2 |
| 4/26/2015 5:33:39 | 51.51 | 46.21 | 112 | 1.74 | 1.29 | 6.1 |
| 4/26/2015 5:33:55 | 51.84 | 46.54 | 41 | 1.74 | 0.96 | 2.3 |
| 4/26/2015 5:33:56 | 52.17 | 46.87 | 192 | 1.72 | 1.37 | 10.5 |
| 4/26/2015 5:33:57 | 52.49 | 47.19 | 306 | 1.74 | 1.01 | 16.7 |
| 4/26/2015 5:34:19 | 52.82 | 47.52 | 105 | 1.76 | 1.12 | 5.7 |
| 4/26/2015 5:34:21 | 53.15 | 47.85 | 191 | 1.78 | 1.12 | 10.4 |
| 4/26/2015 5:34:23 | 53.48 | 48.18 | 198 | 1.77 | 1.13 | 10.8 |
| 4/26/2015 5:34:36 | 53.81 | 48.51 | 67 | 1.74 | 1.07 | 3.7 |
| 4/26/2015 5:34:38 | 54.13 | 48.83 | 145 | 1.76 | 1.06 | 7.9 |
| 4/26/2015 5:34:51 | 54.46 | 49.16 | 29 | 1.72 | 1.09 | 1.6 |
| 4/26/2015 5:34:53 | 54.79 | 49.49 | 188 | 1.75 | 1.15 | 10.3 |
| 4/26/2015 5:34:55 | 55.12 | 49.82 | 249 | 1.75 | 1.13 | 13.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 5:35:12 | 55.45 | 50.15 | 49 | 1.75 | 0.99 | 2.7 |
| 4/26/2015 | 5:35:13 | 55.77 | 50.47 | 167 | 1.74 | 0.98 | 9.2 |
| 4/26/2015 | 5:35:14 | 56.10 | 50.80 | 318 | 1.74 | 1.21 | 17.4 |
| 4/26/2015 | 5:35:22 | 56.43 | 51.13 | 74 | 1.77 | 1.24 | 4.1 |
| 4/26/2015 | 5:35:24 | 56.76 | 51.46 | 174 | 1.73 | 1.11 | 9.5 |
| 4/26/2015 | 5:35:25 | 57.09 | 51.79 | 257 | 1.74 | 1.03 | 14.0 |
| 4/26/2015 | 5:35:27 | 57.41 | 52.11 | 241 | 1.72 | 1.08 | 13.2 |
| 4/26/2015 | 5:35:28 | 57.74 | 52.44 | 233 | 1.74 | 1.15 | 12.8 |
| 4/26/2015 | 5:35:29 | 58.07 | 52.77 | 247 | 1.74 | 0.97 | 13.5 |
| 4/26/2015 | 5:35:45 | 58.40 | 53.10 | 53 | 1.73 | 1.12 | 2.9 |
| 4/26/2015 | 5:35:49 | 58.73 | 53.43 | 61 | 1.75 | 1.15 | 3.4 |
| 4/26/2015 | 5:35:50 | 59.06 | 53.76 | 152 | 1.76 | 1.13 | 8.3 |
| 4/26/2015 | 5:35:52 | 59.38 | 54.08 | 174 | 1.77 | 1.19 | 9.5 |
| 4/26/2015 | 5:35:54 | 59.71 | 54.41 | 168 | 1.78 | 1.05 | 9.2 |
| 4/26/2015 | 5:35:56 | 60.04 | 54.74 | 185 | 1.75 | 1.23 | 10.1 |
| 4/26/2015 | 5:35:58 | 60.23 | 54.93 | 176 | 1.78 | 1.16 | 9.6 |

## H429 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 5:30:08

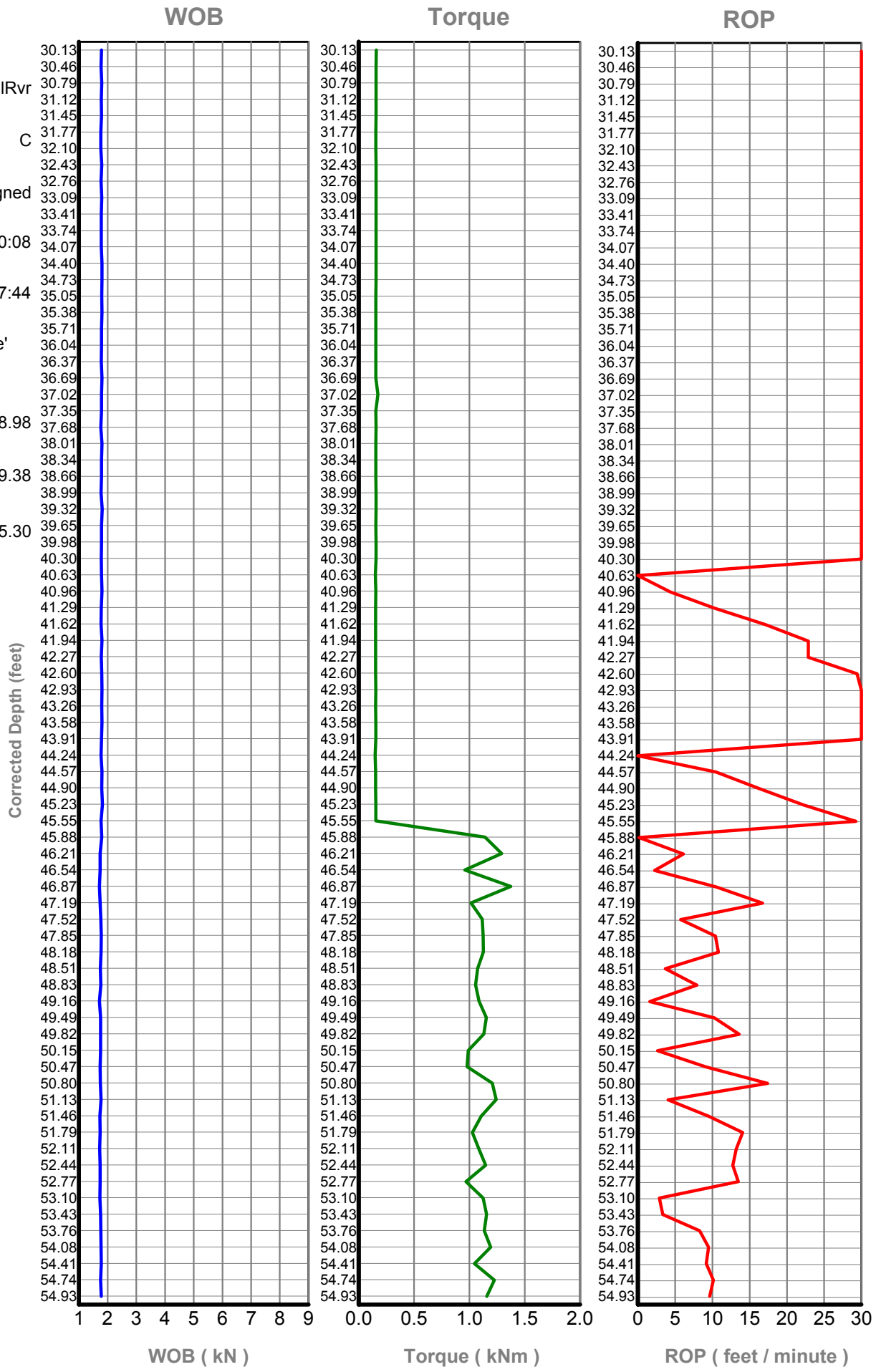
**End Date:**
4/26/2015 5:37:44

**Operator Note:**
'5.3 5.2 c Auto Complete'

**Northing:**
365,898.98

**Easting:**
250,579.38

**Tide (feet):**
5.30



## Hole: H43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:57:54 | 36.09 | 30.19 | 679 | 1.11 | 0.82 | 37.2 |
| 4/27/2015 8:57:54 | 36.42 | 30.52 | 689 | 1.11 | 0.82 | 37.7 |
| 4/27/2015 8:57:55 | 36.75 | 30.85 | 679 | 1.10 | 0.82 | 37.1 |
| 4/27/2015 8:57:56 | 37.07 | 31.17 | 679 | 1.12 | 0.82 | 37.1 |
| 4/27/2015 8:57:56 | 37.40 | 31.50 | 679 | 1.10 | 0.82 | 37.1 |
| 4/27/2015 8:57:57 | 37.73 | 31.83 | 678 | 1.11 | 0.82 | 37.1 |
| 4/27/2015 8:57:57 | 38.06 | 32.16 | 679 | 1.11 | 0.82 | 37.1 |
| 4/27/2015 8:57:58 | 38.39 | 32.49 | 685 | 1.11 | 0.82 | 37.5 |
| 4/27/2015 8:57:58 | 38.71 | 32.81 | 688 | 1.10 | 0.82 | 37.6 |
| 4/27/2015 8:57:59 | 39.04 | 33.14 | 688 | 1.11 | 0.82 | 37.6 |
| 4/27/2015 8:57:59 | 39.37 | 33.47 | 689 | 1.11 | 0.82 | 37.7 |
| 4/27/2015 8:58:00 | 39.70 | 33.80 | 688 | 1.11 | 0.82 | 37.6 |
| 4/27/2015 8:58:00 | 40.03 | 34.13 | 678 | 1.11 | 0.82 | 37.1 |
| 4/27/2015 8:58:01 | 40.35 | 34.45 | 682 | 1.11 | 0.82 | 37.3 |
| 4/27/2015 8:58:01 | 40.68 | 34.78 | 676 | 1.11 | 0.82 | 37.0 |
| 4/27/2015 8:58:02 | 41.01 | 35.11 | 680 | 1.11 | 0.82 | 37.2 |
| 4/27/2015 8:58:02 | 41.34 | 35.44 | 674 | 1.11 | 0.82 | 36.9 |
| 4/27/2015 8:58:03 | 41.67 | 35.77 | 677 | 1.11 | 0.81 | 37.0 |
| 4/27/2015 8:58:03 | 41.99 | 36.09 | 671 | 1.11 | 0.82 | 36.7 |
| 4/27/2015 8:58:04 | 42.32 | 36.42 | 675 | 1.11 | 0.82 | 36.9 |
| 4/27/2015 8:58:04 | 42.65 | 36.75 | 667 | 1.10 | 0.82 | 36.4 |
| 4/27/2015 8:58:05 | 42.98 | 37.08 | 679 | 1.11 | 0.82 | 37.2 |
| 4/27/2015 8:58:06 | 43.31 | 37.41 | 677 | 1.11 | 0.82 | 37.0 |
| 4/27/2015 8:58:06 | 43.64 | 37.74 | 679 | 1.10 | 0.82 | 37.2 |
| 4/27/2015 8:58:07 | 43.96 | 38.06 | 679 | 1.10 | 0.82 | 37.2 |
| 4/27/2015 8:58:07 | 44.29 | 38.39 | 679 | 1.11 | 0.82 | 37.2 |
| 4/27/2015 8:58:08 | 44.62 | 38.72 | 671 | 1.11 | 0.81 | 36.7 |
| 4/27/2015 8:58:08 | 44.95 | 39.05 | 671 | 1.11 | 0.82 | 36.7 |
| 4/27/2015 8:58:09 | 45.28 | 39.38 | 664 | 1.11 | 0.82 | 36.3 |
| 4/27/2015 8:58:09 | 45.60 | 39.70 | 671 | 1.09 | 0.87 | 36.7 |
| 4/27/2015 8:58:10 | 45.93 | 40.03 | 668 | 1.13 | 0.83 | 36.5 |
| 4/27/2015 8:58:10 | 46.26 | 40.36 | 668 | 1.11 | 0.82 | 36.5 |
| 4/27/2015 8:58:11 | 46.59 | 40.69 | 668 | 1.09 | 0.83 | 36.5 |
| 4/27/2015 8:58:11 | 46.92 | 41.02 | 669 | 1.11 | 0.87 | 36.6 |
| 4/27/2015 8:58:12 | 47.24 | 41.34 | 659 | 1.10 | 0.95 | 36.0 |
| 4/27/2015 8:58:16 | 47.57 | 41.67 | 6 | 1.13 | 0.84 | 0.3 |
| 4/27/2015 8:58:17 | 47.90 | 42.00 | 123 | 1.10 | 0.83 | 6.7 |
| 4/27/2015 8:58:17 | 48.23 | 42.33 | 240 | 1.11 | 0.81 | 13.1 |
| 4/27/2015 8:58:18 | 48.56 | 42.66 | 369 | 1.10 | 0.82 | 20.2 |
| 4/27/2015 8:58:18 | 48.88 | 42.98 | 496 | 1.10 | 0.81 | 27.1 |
| 4/27/2015 8:58:19 | 49.21 | 43.31 | 613 | 1.09 | 0.81 | 33.5 |
| 4/27/2015 8:58:19 | 49.54 | 43.64 | 618 | 1.09 | 0.81 | 33.8 |
| 4/27/2015 8:58:20 | 49.87 | 43.97 | 627 | 1.09 | 0.81 | 34.3 |
| 4/27/2015 8:58:20 | 50.20 | 44.30 | 624 | 1.09 | 0.82 | 34.1 |
| 4/27/2015 8:58:21 | 50.53 | 44.63 | 624 | 1.09 | 0.82 | 34.1 |
| 4/27/2015 8:58:22 | 50.85 | 44.95 | 624 | 1.15 | 0.81 | 34.1 |
| 4/27/2015 8:58:22 | 51.18 | 45.28 | 628 | 1.11 | 0.89 | 34.3 |
| 4/27/2015 8:58:23 | 51.51 | 45.61 | 607 | 1.13 | 1.13 | 33.2 |
| 4/27/2015 8:58:25 | 51.84 | 45.94 | 276 | 1.13 | 0.88 | 15.1 |
| 4/27/2015 8:58:26 | 52.17 | 46.27 | 216 | 1.11 | 0.86 | 11.8 |
| 4/27/2015 8:58:27 | 52.49 | 46.59 | 248 | 1.10 | 0.81 | 13.6 |
| 4/27/2015 8:58:28 | 52.82 | 46.92 | 397 | 1.11 | 0.81 | 21.7 |
| 4/27/2015 8:58:28 | 53.15 | 47.25 | 466 | 1.11 | 0.80 | 25.5 |
| 4/27/2015 8:58:29 | 53.48 | 47.58 | 486 | 1.09 | 0.81 | 26.6 |
| 4/27/2015 8:58:30 | 53.81 | 47.91 | 524 | 1.09 | 0.82 | 28.6 |
| 4/27/2015 8:58:30 | 54.13 | 48.23 | 532 | 1.13 | 0.94 | 29.1 |
| 4/27/2015 8:58:31 | 54.46 | 48.56 | 459 | 1.11 | 1.08 | 25.1 |
| 4/27/2015 8:58:32 | 54.79 | 48.89 | 433 | 1.09 | 0.83 | 23.7 |
| 4/27/2015 8:58:33 | 55.12 | 49.22 | 451 | 1.10 | 0.88 | 24.6 |
| 4/27/2015 8:58:33 | 55.45 | 49.55 | 451 | 1.10 | 0.94 | 24.6 |
| 4/27/2015 8:58:36 | 55.77 | 49.87 | 186 | 1.23 | 0.81 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:58:37 | 56.10 | 50.20 | 109 | 1.11 | 0.81 | 5.9 |
| 4/27/2015 | 8:58:38 | 56.43 | 50.53 | 218 | 1.11 | 0.83 | 11.9 |
| 4/27/2015 | 8:58:38 | 56.76 | 50.86 | 321 | 1.11 | 0.84 | 17.5 |
| 4/27/2015 | 8:58:39 | 57.09 | 51.19 | 509 | 1.10 | 0.84 | 27.8 |
| 4/27/2015 | 8:58:40 | 57.41 | 51.51 | 512 | 1.10 | 0.83 | 28.0 |
| 4/27/2015 | 8:58:40 | 57.74 | 51.84 | 505 | 1.09 | 0.82 | 27.6 |
| 4/27/2015 | 8:58:41 | 58.07 | 52.17 | 523 | 1.10 | 0.81 | 28.6 |
| 4/27/2015 | 8:58:42 | 58.40 | 52.50 | 549 | 1.09 | 0.80 | 30.0 |
| 4/27/2015 | 8:58:42 | 58.73 | 52.83 | 561 | 1.12 | 0.91 | 30.7 |
| 4/27/2015 | 8:58:44 | 59.06 | 53.16 | 419 | 1.15 | 1.02 | 22.9 |
| 4/27/2015 | 8:58:48 | 59.38 | 53.48 | 93 | 1.17 | 1.11 | 5.1 |
| 4/27/2015 | 8:58:51 | 59.71 | 53.81 | 101 | 1.09 | 1.15 | 5.5 |
| 4/27/2015 | 8:58:55 | 60.04 | 54.14 | 89 | 1.09 | 1.18 | 4.9 |
| 4/27/2015 | 8:58:59 | 60.37 | 54.47 | 106 | 1.02 | 1.16 | 5.8 |
| 4/27/2015 | 8:59:02 | 60.70 | 54.80 | 99 | 1.07 | 1.19 | 5.4 |
| 4/27/2015 | 8:59:06 | 61.02 | 55.12 | 91 | 1.17 | 1.20 | 5.0 |
| 4/27/2015 | 8:59:09 | 61.17 | 55.27 | 68 | 0.48 | 1.17 | 3.7 |

## H43 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:54:37

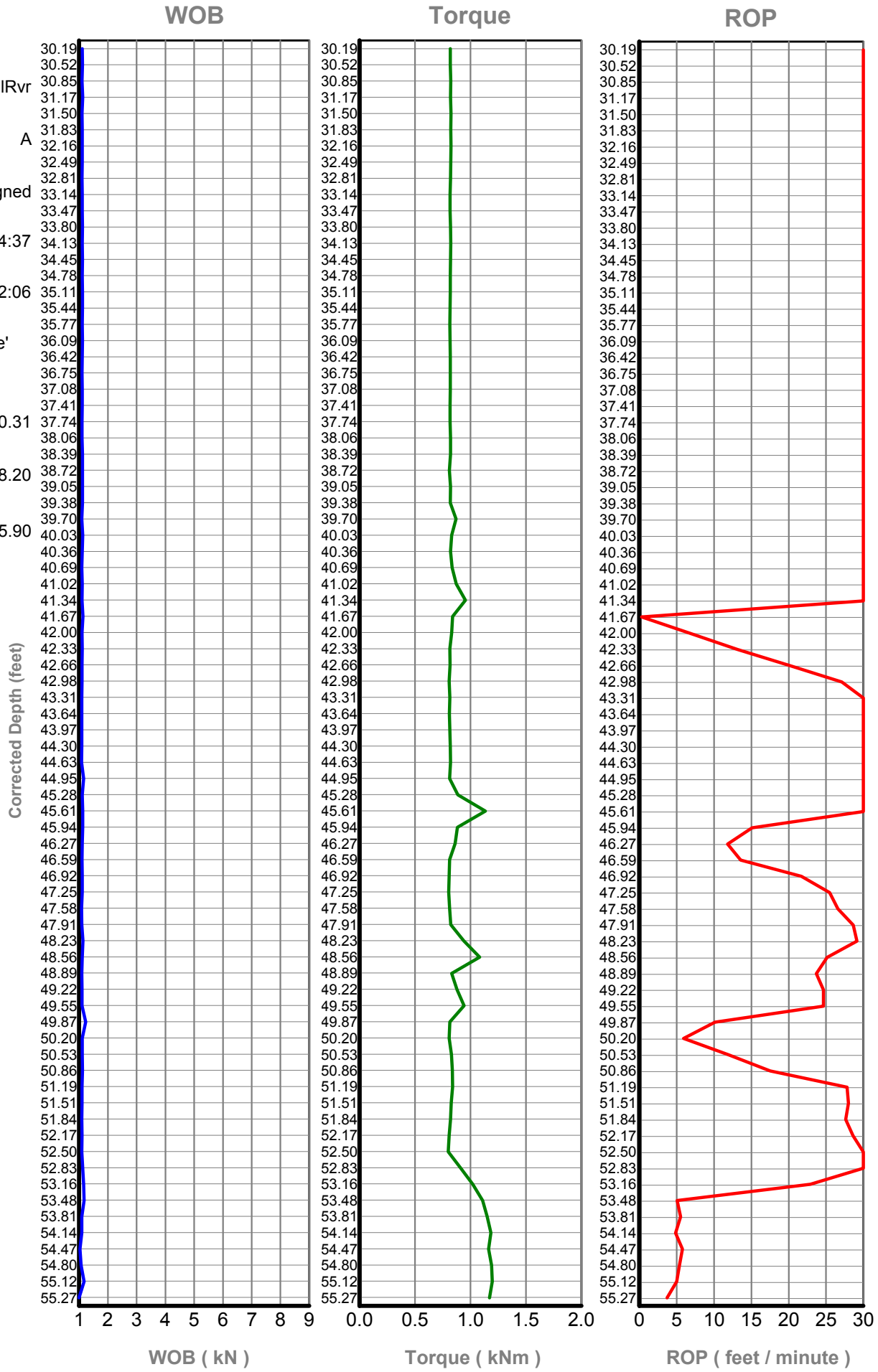
**End Date:**
4/27/2015 9:02:06

**Operator Note:**
'5.9 6.0 a Auto Complete'

**Northing:**
365,540.31

**Easting:**
249,048.20

**Tide (feet):**
5.90



## Hole: H430 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 5:22:49 | 35.43 | 30.23 | 583 | 1.78 | 0.15 | 31.9 |
| 4/26/2015 5:22:49 | 35.76 | 30.56 | 584 | 1.77 | 0.15 | 31.9 |
| 4/26/2015 5:22:50 | 36.09 | 30.89 | 584 | 1.80 | 0.15 | 31.9 |
| 4/26/2015 5:22:50 | 36.42 | 31.22 | 584 | 1.79 | 0.15 | 31.9 |
| 4/26/2015 5:22:51 | 36.75 | 31.55 | 587 | 1.79 | 0.15 | 32.1 |
| 4/26/2015 5:22:51 | 37.07 | 31.87 | 577 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:22:52 | 37.40 | 32.20 | 581 | 1.79 | 0.15 | 31.7 |
| 4/26/2015 5:22:53 | 37.73 | 32.53 | 581 | 1.79 | 0.15 | 31.8 |
| 4/26/2015 5:22:53 | 38.06 | 32.86 | 584 | 1.79 | 0.15 | 31.9 |
| 4/26/2015 5:22:54 | 38.39 | 33.19 | 587 | 1.80 | 0.15 | 32.1 |
| 4/26/2015 5:22:54 | 38.71 | 33.51 | 591 | 1.77 | 0.15 | 32.3 |
| 4/26/2015 5:22:55 | 39.04 | 33.84 | 584 | 1.77 | 0.15 | 31.9 |
| 4/26/2015 5:22:56 | 39.37 | 34.17 | 578 | 1.78 | 0.15 | 31.6 |
| 4/26/2015 5:22:56 | 39.70 | 34.50 | 581 | 1.77 | 0.15 | 31.8 |
| 4/26/2015 5:22:57 | 40.03 | 34.83 | 581 | 1.78 | 0.15 | 31.8 |
| 4/26/2015 5:22:58 | 40.35 | 35.15 | 584 | 1.77 | 0.15 | 31.9 |
| 4/26/2015 5:22:58 | 40.68 | 35.48 | 587 | 1.77 | 0.15 | 32.1 |
| 4/26/2015 5:22:59 | 41.01 | 35.81 | 580 | 1.79 | 0.15 | 31.7 |
| 4/26/2015 5:23:00 | 41.34 | 36.14 | 587 | 1.79 | 0.15 | 32.1 |
| 4/26/2015 5:23:00 | 41.67 | 36.47 | 584 | 1.79 | 0.15 | 31.9 |
| 4/26/2015 5:23:01 | 41.99 | 36.79 | 581 | 1.78 | 0.15 | 31.8 |
| 4/26/2015 5:23:01 | 42.32 | 37.12 | 578 | 1.77 | 0.16 | 31.6 |
| 4/26/2015 5:23:02 | 42.65 | 37.45 | 584 | 1.78 | 0.15 | 31.9 |
| 4/26/2015 5:23:03 | 42.98 | 37.78 | 578 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:23:03 | 43.31 | 38.11 | 578 | 1.80 | 0.15 | 31.6 |
| 4/26/2015 5:23:04 | 43.64 | 38.44 | 585 | 1.78 | 0.15 | 32.0 |
| 4/26/2015 5:23:04 | 43.96 | 38.76 | 575 | 1.79 | 0.15 | 31.5 |
| 4/26/2015 5:23:05 | 44.29 | 39.09 | 579 | 1.78 | 0.15 | 31.6 |
| 4/26/2015 5:23:06 | 44.62 | 39.42 | 581 | 1.79 | 0.15 | 31.8 |
| 4/26/2015 5:23:06 | 44.95 | 39.75 | 581 | 1.79 | 0.15 | 31.8 |
| 4/26/2015 5:23:07 | 45.28 | 40.08 | 585 | 1.79 | 0.15 | 32.0 |
| 4/26/2015 5:23:08 | 45.60 | 40.40 | 577 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:23:08 | 45.93 | 40.73 | 581 | 1.79 | 0.15 | 31.8 |
| 4/26/2015 5:23:09 | 46.26 | 41.06 | 578 | 1.77 | 0.15 | 31.6 |
| 4/26/2015 5:23:10 | 46.59 | 41.39 | 578 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:23:10 | 46.92 | 41.72 | 581 | 1.77 | 0.15 | 31.8 |
| 4/26/2015 5:23:11 | 47.24 | 42.04 | 581 | 1.79 | 0.15 | 31.8 |
| 4/26/2015 5:23:11 | 47.57 | 42.37 | 581 | 1.78 | 0.15 | 31.8 |
| 4/26/2015 5:23:12 | 47.90 | 42.70 | 578 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:23:13 | 48.23 | 43.03 | 578 | 1.78 | 0.15 | 31.6 |
| 4/26/2015 5:23:13 | 48.56 | 43.36 | 578 | 1.78 | 0.15 | 31.6 |
| 4/26/2015 5:23:14 | 48.88 | 43.68 | 578 | 1.78 | 0.15 | 31.6 |
| 4/26/2015 5:23:14 | 49.21 | 44.01 | 578 | 1.79 | 0.15 | 31.6 |
| 4/26/2015 5:23:15 | 49.54 | 44.34 | 581 | 1.76 | 0.15 | 31.8 |
| 4/26/2015 5:23:16 | 49.87 | 44.67 | 572 | 1.79 | 0.15 | 31.3 |
| 4/26/2015 5:23:16 | 50.20 | 45.00 | 575 | 1.79 | 0.15 | 31.5 |
| 4/26/2015 5:23:57 | 50.53 | 45.33 | 0 | 1.71 | 1.07 | 0.0 |
| 4/26/2015 5:24:00 | 50.85 | 45.65 | 70 | 1.74 | 1.32 | 3.9 |
| 4/26/2015 5:24:02 | 51.18 | 45.98 | 180 | 1.75 | 1.13 | 9.8 |
| 4/26/2015 5:24:25 | 51.51 | 46.31 | 31 | 1.76 | 1.16 | 1.7 |
| 4/26/2015 5:24:33 | 51.84 | 46.64 | 0 | 1.77 | 1.17 | 0.0 |
| 4/26/2015 5:24:34 | 52.17 | 46.97 | 114 | 1.77 | 1.12 | 6.2 |
| 4/26/2015 5:24:36 | 52.49 | 47.29 | 214 | 1.74 | 1.13 | 11.7 |
| 4/26/2015 5:25:02 | 52.82 | 47.62 | 73 | 1.70 | 1.12 | 4.0 |
| 4/26/2015 5:25:04 | 53.15 | 47.95 | 191 | 1.74 | 1.13 | 10.5 |
| 4/26/2015 5:25:18 | 53.48 | 48.28 | 0 | 1.74 | 1.14 | 0.0 |
| 4/26/2015 5:25:20 | 53.81 | 48.61 | 90 | 1.74 | 1.12 | 4.9 |
| 4/26/2015 5:25:22 | 54.13 | 48.93 | 187 | 1.75 | 1.24 | 10.2 |
| 4/26/2015 5:25:38 | 54.46 | 49.26 | 47 | 1.74 | 1.14 | 2.6 |
| 4/26/2015 5:25:39 | 54.79 | 49.59 | 164 | 1.76 | 1.05 | 9.0 |
| 4/26/2015 5:25:40 | 55.12 | 49.92 | 254 | 1.72 | 1.39 | 13.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 5:25:41 | 55.45 | 50.25 | 237 | 1.76 | 1.12 | 13.0 |
| 4/26/2015 | 5:25:58 | 55.77 | 50.57 | 51 | 1.73 | 1.36 | 2.8 |
| 4/26/2015 | 5:25:59 | 56.10 | 50.90 | 196 | 1.74 | 1.13 | 10.7 |
| 4/26/2015 | 5:26:00 | 56.43 | 51.23 | 248 | 1.75 | 1.05 | 13.6 |
| 4/26/2015 | 5:26:01 | 56.76 | 51.56 | 273 | 1.74 | 1.00 | 14.9 |
| 4/26/2015 | 5:26:03 | 57.09 | 51.89 | 299 | 1.74 | 1.03 | 16.4 |
| 4/26/2015 | 5:26:04 | 57.41 | 52.21 | 298 | 1.73 | 1.05 | 16.3 |
| 4/26/2015 | 5:26:06 | 57.74 | 52.54 | 163 | 1.73 | 0.97 | 8.9 |
| 4/26/2015 | 5:26:23 | 58.07 | 52.87 | 31 | 1.83 | 1.28 | 1.7 |
| 4/26/2015 | 5:26:27 | 58.40 | 53.20 | 90 | 1.76 | 1.54 | 4.9 |
| 4/26/2015 | 5:26:29 | 58.73 | 53.53 | 136 | 1.77 | 1.28 | 7.4 |
| 4/26/2015 | 5:26:31 | 59.06 | 53.86 | 165 | 1.78 | 1.16 | 9.0 |
| 4/26/2015 | 5:26:33 | 59.38 | 54.18 | 165 | 1.74 | 1.27 | 9.0 |
| 4/26/2015 | 5:26:35 | 59.71 | 54.51 | 176 | 1.76 | 1.15 | 9.6 |
| 4/26/2015 | 5:26:37 | 59.99 | 54.79 | 171 | 1.74 | 1.06 | 9.3 |

## H430 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 5:21:16

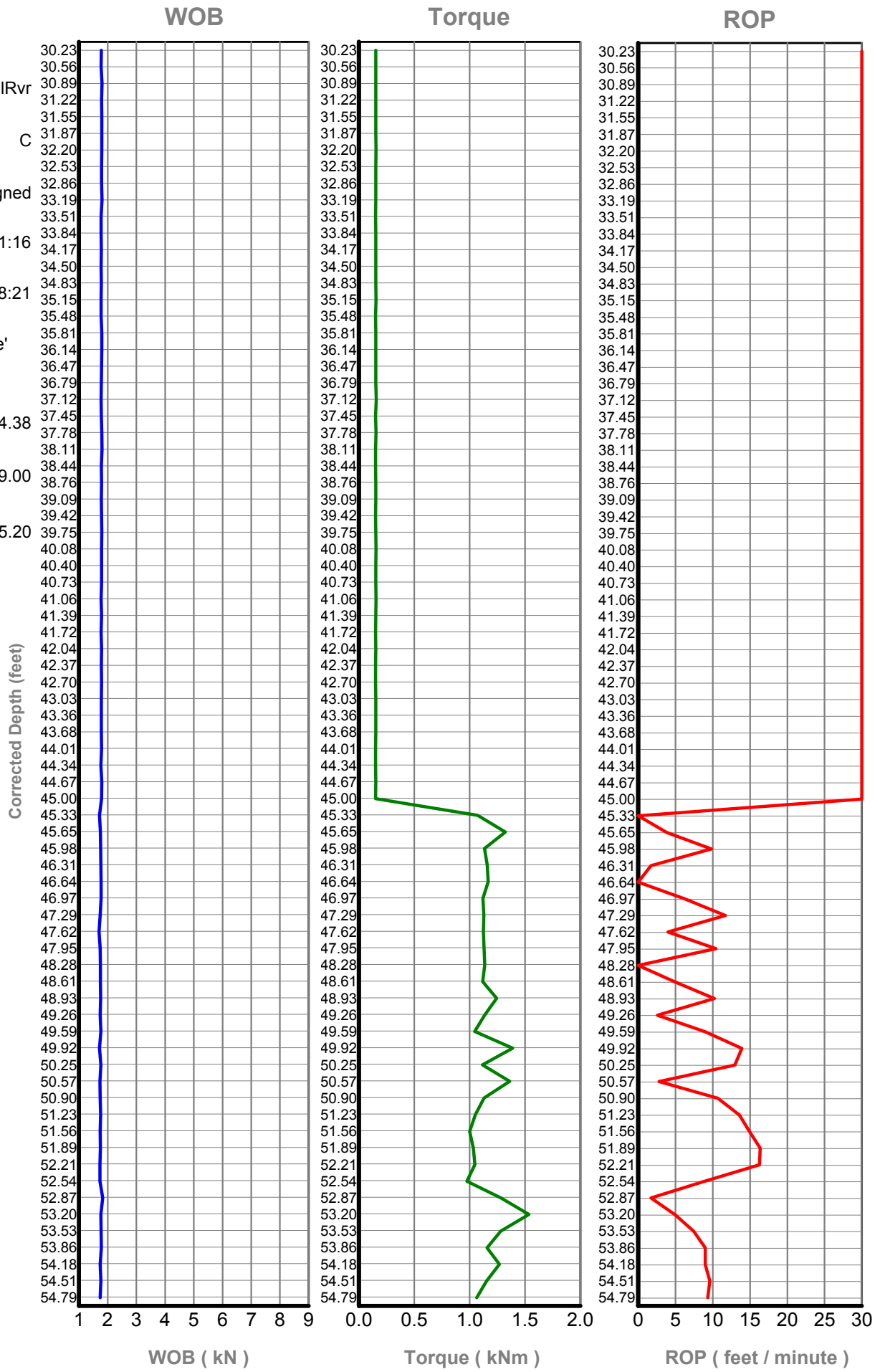
**End Date:**
4/26/2015 5:28:21

**Operator Note:**
'5.2 4.8 c Auto Complete'

**Northing:**
365,944.38

**Easting:**
250,639.00

**Tide (feet):**
5.20



## Hole: H431 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:15:46 | 35.11 | 30.21 | 1,078 | 0.29 | 0.33 | 58.9 |
| 4/25/2015 17:15:47 | 35.43 | 30.53 | 1,078 | 0.29 | 0.33 | 58.9 |
| 4/25/2015 17:15:47 | 35.76 | 30.86 | 1,081 | 0.35 | 0.32 | 59.1 |
| 4/25/2015 17:15:47 | 36.09 | 31.19 | 1,075 | 0.25 | 0.32 | 58.8 |
| 4/25/2015 17:15:48 | 36.42 | 31.52 | 1,075 | 0.25 | 0.32 | 58.8 |
| 4/25/2015 17:15:48 | 36.75 | 31.85 | 1,069 | 0.37 | 0.32 | 58.5 |
| 4/25/2015 17:15:48 | 37.07 | 32.17 | 1,047 | 0.38 | 0.33 | 57.3 |
| 4/25/2015 17:15:49 | 37.40 | 32.50 | 1,047 | 0.38 | 0.33 | 57.3 |
| 4/25/2015 17:15:49 | 37.73 | 32.83 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/25/2015 17:15:49 | 38.06 | 33.16 | 1,054 | 0.30 | 0.32 | 57.6 |
| 4/25/2015 17:15:49 | 38.39 | 33.49 | 1,051 | 0.30 | 0.32 | 57.5 |
| 4/25/2015 17:15:50 | 38.71 | 33.81 | 1,054 | 0.29 | 0.32 | 57.6 |
| 4/25/2015 17:15:50 | 39.04 | 34.14 | 1,054 | 0.29 | 0.32 | 57.6 |
| 4/25/2015 17:15:50 | 39.37 | 34.47 | 1,051 | 0.28 | 0.32 | 57.4 |
| 4/25/2015 17:15:51 | 39.70 | 34.80 | 1,085 | 0.29 | 0.32 | 59.4 |
| 4/25/2015 17:15:51 | 40.03 | 35.13 | 1,085 | 0.29 | 0.32 | 59.4 |
| 4/25/2015 17:15:51 | 40.35 | 35.45 | 1,078 | 0.29 | 0.31 | 59.0 |
| 4/25/2015 17:15:52 | 40.68 | 35.78 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/25/2015 17:15:52 | 41.01 | 36.11 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/25/2015 17:15:52 | 41.34 | 36.44 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/25/2015 17:15:53 | 41.67 | 36.77 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/25/2015 17:15:53 | 41.99 | 37.09 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/25/2015 17:15:53 | 42.32 | 37.42 | 1,078 | 0.29 | 0.32 | 59.0 |
| 4/25/2015 17:15:54 | 42.65 | 37.75 | 1,078 | 0.29 | 0.32 | 59.0 |
| 4/25/2015 17:15:54 | 42.98 | 38.08 | 1,078 | 0.28 | 0.32 | 59.0 |
| 4/25/2015 17:15:54 | 43.31 | 38.41 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 17:15:55 | 43.64 | 38.74 | 1,063 | 0.31 | 0.32 | 58.1 |
| 4/25/2015 17:15:55 | 43.96 | 39.06 | 1,060 | 0.30 | 0.31 | 57.9 |
| 4/25/2015 17:15:56 | 44.29 | 39.39 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 17:15:56 | 44.62 | 39.72 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/25/2015 17:15:56 | 44.95 | 40.05 | 1,046 | 0.29 | 0.32 | 57.2 |
| 4/25/2015 17:15:57 | 45.28 | 40.38 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 17:15:57 | 45.60 | 40.70 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 17:15:57 | 45.93 | 41.03 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 17:15:58 | 46.26 | 41.36 | 1,043 | 0.29 | 0.32 | 57.0 |
| 4/25/2015 17:15:58 | 46.59 | 41.69 | 1,037 | 0.29 | 0.32 | 56.7 |
| 4/25/2015 17:15:58 | 46.92 | 42.02 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/25/2015 17:15:59 | 47.24 | 42.34 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/25/2015 17:15:59 | 47.57 | 42.67 | 1,054 | 0.28 | 0.32 | 57.6 |
| 4/25/2015 17:15:59 | 47.90 | 43.00 | 1,082 | 0.28 | 0.24 | 59.2 |
| 4/25/2015 17:16:00 | 48.23 | 43.33 | 1,082 | 0.28 | 0.24 | 59.2 |
| 4/25/2015 17:16:00 | 48.56 | 43.66 | 1,058 | 0.28 | 0.32 | 57.9 |
| 4/25/2015 17:16:00 | 48.88 | 43.98 | 1,058 | 0.27 | 0.32 | 57.9 |
| 4/25/2015 17:16:01 | 49.21 | 44.31 | 1,058 | 0.27 | 0.32 | 57.9 |
| 4/25/2015 17:16:01 | 49.54 | 44.64 | 1,062 | 0.28 | 0.32 | 58.1 |
| 4/25/2015 17:16:01 | 49.87 | 44.97 | 1,068 | 0.27 | 0.34 | 58.4 |
| 4/25/2015 17:16:02 | 50.20 | 45.30 | 1,068 | 0.27 | 0.34 | 58.4 |
| 4/25/2015 17:16:13 | 50.53 | 45.63 | 114 | 4.64 | 0.38 | 6.2 |
| 4/25/2015 17:16:14 | 50.85 | 45.95 | 83 | 3.63 | 0.38 | 4.6 |
| 4/25/2015 17:16:15 | 51.18 | 46.28 | 228 | 3.80 | 0.38 | 12.5 |
| 4/25/2015 17:16:17 | 51.51 | 46.61 | 359 | 3.50 | 0.39 | 19.6 |
| 4/25/2015 17:16:23 | 51.84 | 46.94 | 0 | 3.21 | 0.37 | 0.0 |
| 4/25/2015 17:16:25 | 52.17 | 47.27 | 207 | 4.05 | 0.37 | 11.3 |
| 4/25/2015 17:16:25 | 52.49 | 47.59 | 293 | 3.76 | 0.37 | 16.0 |
| 4/25/2015 17:16:27 | 52.82 | 47.92 | 379 | 3.48 | 0.37 | 20.7 |
| 4/25/2015 17:16:40 | 53.15 | 48.25 | 0 | 3.91 | 0.38 | 0.0 |
| 4/25/2015 17:16:42 | 53.48 | 48.58 | 162 | 4.08 | 0.39 | 8.8 |
| 4/25/2015 17:16:43 | 53.81 | 48.91 | 278 | 3.77 | 0.38 | 15.2 |
| 4/25/2015 17:16:44 | 54.13 | 49.23 | 307 | 4.34 | 0.38 | 16.8 |
| 4/25/2015 17:16:45 | 54.46 | 49.56 | 301 | 3.69 | 0.38 | 16.4 |
| 4/25/2015 17:17:08 | 54.79 | 49.89 | 71 | 5.50 | 0.39 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:17:10 | 55.12 | 50.22 | 205 | 4.30 | 0.37 | 11.2 |
| 4/25/2015 | 17:17:11 | 55.45 | 50.55 | 239 | 3.14 | 0.35 | 13.1 |
| 4/25/2015 | 17:17:11 | 55.77 | 50.87 | 313 | 2.49 | 0.36 | 17.1 |
| 4/25/2015 | 17:17:12 | 56.10 | 51.20 | 389 | 2.59 | 0.35 | 21.3 |
| 4/25/2015 | 17:17:12 | 56.43 | 51.53 | 458 | 2.10 | 0.34 | 25.0 |
| 4/25/2015 | 17:17:13 | 56.76 | 51.86 | 458 | 2.00 | 0.34 | 25.0 |
| 4/25/2015 | 17:17:13 | 57.09 | 52.19 | 569 | 2.40 | 0.35 | 31.1 |
| 4/25/2015 | 17:17:14 | 57.41 | 52.51 | 590 | 2.86 | 0.38 | 32.3 |
| 4/25/2015 | 17:17:15 | 57.74 | 52.84 | 522 | 2.35 | 0.36 | 28.6 |
| 4/25/2015 | 17:17:16 | 58.07 | 53.17 | 478 | 3.71 | 0.37 | 26.1 |
| 4/25/2015 | 17:17:17 | 58.40 | 53.50 | 403 | 5.49 | 0.37 | 22.0 |
| 4/25/2015 | 17:17:18 | 58.73 | 53.83 | 395 | 3.78 | 0.38 | 21.6 |
| 4/25/2015 | 17:17:20 | 59.06 | 54.16 | 278 | 5.37 | 0.40 | 15.2 |
| 4/25/2015 | 17:17:21 | 59.38 | 54.48 | 277 | 3.78 | 0.37 | 15.2 |
| 4/25/2015 | 17:17:22 | 59.71 | 54.81 | 280 | 5.12 | 0.40 | 15.3 |
| 4/25/2015 | 17:17:22 | 59.75 | 54.85 | 289 | 4.56 | 0.41 | 15.8 |

## H431 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:12:53

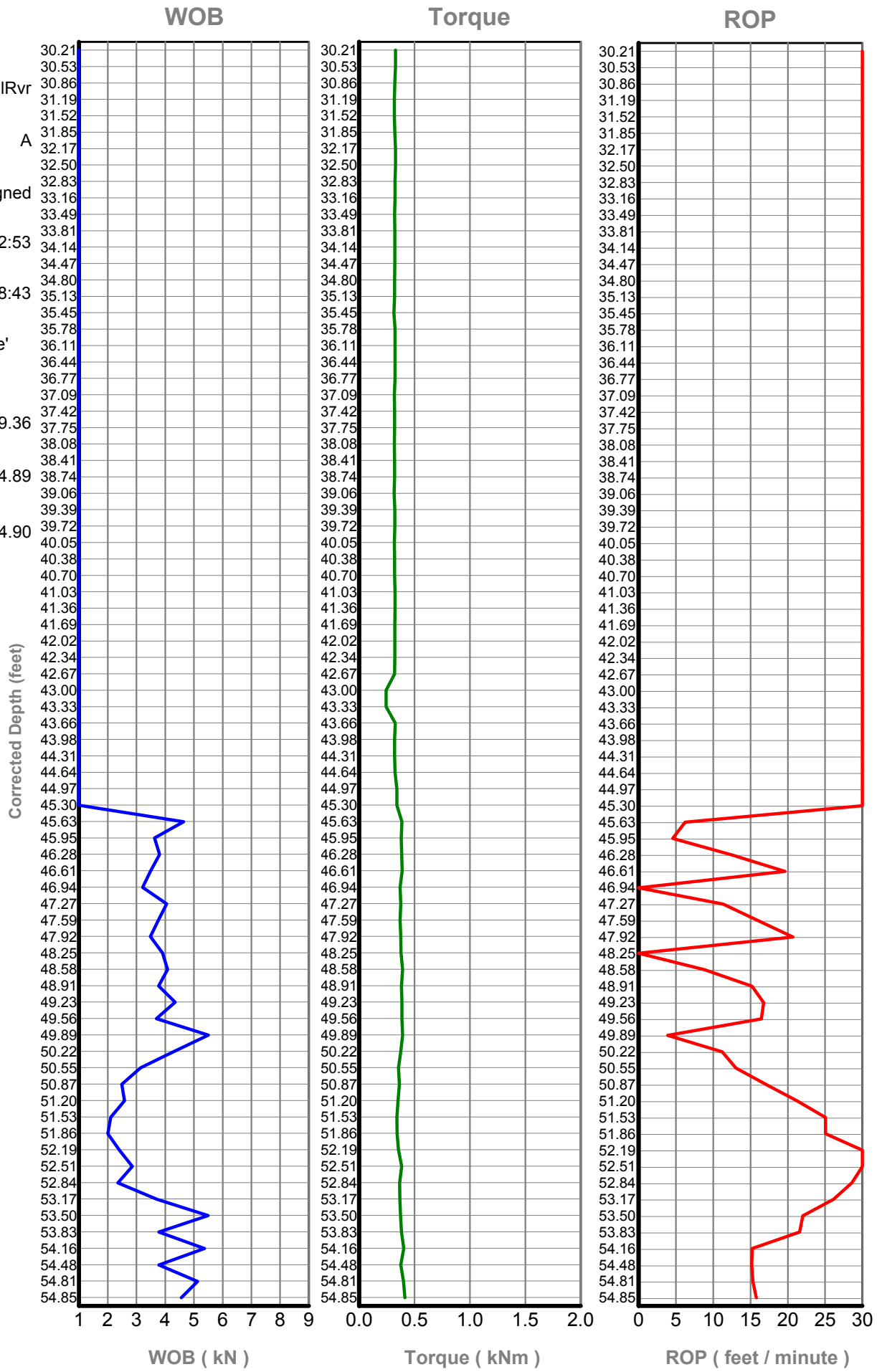
**End Date:**
4/25/2015 17:18:43

**Operator Note:**
'4.9 4.7 b Auto Complete'

**Northing:**
366,009.36

**Easting:**
250,704.89

**Tide (feet):**
4.90



## Hole: H432 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:20:38 | 35.11 | 30.11 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/25/2015 17:20:38 | 35.43 | 30.43 | 1,102 | 0.30 | 0.31 | 60.3 |
| 4/25/2015 17:20:38 | 35.76 | 30.76 | 1,096 | 0.29 | 0.32 | 59.9 |
| 4/25/2015 17:20:39 | 36.09 | 31.09 | 1,096 | 0.29 | 0.32 | 59.9 |
| 4/25/2015 17:20:39 | 36.42 | 31.42 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/25/2015 17:20:39 | 36.75 | 31.75 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/25/2015 17:20:40 | 37.07 | 32.07 | 1,084 | 0.29 | 0.31 | 59.3 |
| 4/25/2015 17:20:40 | 37.40 | 32.40 | 1,115 | 0.29 | 0.31 | 61.0 |
| 4/25/2015 17:20:40 | 37.73 | 32.73 | 1,115 | 0.29 | 0.31 | 61.0 |
| 4/25/2015 17:20:40 | 38.06 | 33.06 | 1,093 | 0.29 | 0.31 | 59.8 |
| 4/25/2015 17:20:41 | 38.39 | 33.39 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/25/2015 17:20:41 | 38.71 | 33.71 | 1,070 | 0.29 | 0.31 | 58.5 |
| 4/25/2015 17:20:41 | 39.04 | 34.04 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/25/2015 17:20:42 | 39.37 | 34.37 | 1,070 | 0.29 | 0.32 | 58.5 |
| 4/25/2015 17:20:42 | 39.70 | 34.70 | 1,092 | 0.29 | 0.31 | 59.7 |
| 4/25/2015 17:20:42 | 40.03 | 35.03 | 1,097 | 0.37 | 0.31 | 60.0 |
| 4/25/2015 17:20:43 | 40.35 | 35.35 | 1,097 | 0.37 | 0.31 | 60.0 |
| 4/25/2015 17:20:43 | 40.68 | 35.68 | 1,082 | 0.32 | 0.32 | 59.2 |
| 4/25/2015 17:20:43 | 41.01 | 36.01 | 1,079 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 17:20:44 | 41.34 | 36.34 | 1,079 | 0.31 | 0.32 | 59.0 |
| 4/25/2015 17:20:44 | 41.67 | 36.67 | 1,097 | 0.30 | 0.32 | 60.0 |
| 4/25/2015 17:20:44 | 41.99 | 36.99 | 1,066 | 0.30 | 0.32 | 58.3 |
| 4/25/2015 17:20:45 | 42.32 | 37.32 | 1,066 | 0.30 | 0.32 | 58.3 |
| 4/25/2015 17:20:45 | 42.65 | 37.65 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/25/2015 17:20:45 | 42.98 | 37.98 | 1,069 | 0.30 | 0.31 | 58.5 |
| 4/25/2015 17:20:45 | 43.31 | 38.31 | 1,072 | 0.35 | 0.32 | 58.6 |
| 4/25/2015 17:20:46 | 43.64 | 38.64 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 17:20:47 | 43.96 | 38.96 | 1,072 | 0.31 | 0.32 | 58.6 |
| 4/25/2015 17:20:46 | 44.29 | 39.29 | 1,055 | 0.29 | 0.31 | 57.7 |
| 4/25/2015 17:20:47 | 44.62 | 39.62 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 17:20:48 | 44.95 | 39.95 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/25/2015 17:20:48 | 45.28 | 40.28 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/25/2015 17:20:48 | 45.60 | 40.60 | 1,062 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 17:20:49 | 45.93 | 40.93 | 1,062 | 0.30 | 0.32 | 58.0 |
| 4/25/2015 17:20:49 | 46.26 | 41.26 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/25/2015 17:20:49 | 46.59 | 41.59 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/25/2015 17:20:50 | 46.92 | 41.92 | 1,043 | 0.30 | 0.31 | 57.0 |
| 4/25/2015 17:20:50 | 47.24 | 42.24 | 1,051 | 0.29 | 0.32 | 57.5 |
| 4/25/2015 17:20:50 | 47.57 | 42.57 | 1,051 | 0.29 | 0.32 | 57.5 |
| 4/25/2015 17:20:50 | 47.90 | 42.90 | 1,078 | 0.29 | 0.32 | 58.9 |
| 4/25/2015 17:20:51 | 48.23 | 43.23 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/25/2015 17:20:51 | 48.56 | 43.56 | 1,069 | 0.29 | 0.32 | 58.5 |
| 4/25/2015 17:20:51 | 48.88 | 43.88 | 1,065 | 0.29 | 0.31 | 58.3 |
| 4/25/2015 17:20:52 | 49.21 | 44.21 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/25/2015 17:20:52 | 49.54 | 44.54 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/25/2015 17:20:52 | 49.87 | 44.87 | 1,064 | 0.29 | 0.34 | 58.2 |
| 4/25/2015 17:21:01 | 50.20 | 45.20 | 0 | 5.23 | 0.39 | 0.0 |
| 4/25/2015 17:21:03 | 50.53 | 45.53 | 132 | 3.76 | 0.36 | 7.2 |
| 4/25/2015 17:21:04 | 50.85 | 45.85 | 184 | 3.46 | 0.36 | 10.1 |
| 4/25/2015 17:21:09 | 51.18 | 46.18 | 72 | 2.78 | 0.37 | 3.9 |
| 4/25/2015 17:21:13 | 51.51 | 46.51 | 0 | 2.25 | 0.33 | 0.0 |
| 4/25/2015 17:21:14 | 51.84 | 46.84 | 112 | 4.49 | 0.37 | 6.2 |
| 4/25/2015 17:21:15 | 52.17 | 47.17 | 254 | 4.78 | 0.38 | 13.9 |
| 4/25/2015 17:21:16 | 52.49 | 47.49 | 387 | 3.25 | 0.37 | 21.1 |
| 4/25/2015 17:21:17 | 52.82 | 47.82 | 387 | 3.70 | 0.36 | 21.2 |
| 4/25/2015 17:21:29 | 53.15 | 48.15 | 3 | 5.02 | 0.37 | 0.2 |
| 4/25/2015 17:21:30 | 53.48 | 48.48 | 82 | 4.65 | 0.37 | 4.5 |
| 4/25/2015 17:21:38 | 53.81 | 48.81 | 116 | 3.75 | 0.37 | 6.3 |
| 4/25/2015 17:21:50 | 54.13 | 49.13 | 15 | 3.67 | 0.35 | 0.8 |
| 4/25/2015 17:21:51 | 54.46 | 49.46 | 163 | 3.44 | 0.36 | 8.9 |
| 4/25/2015 17:21:52 | 54.79 | 49.79 | 252 | 2.82 | 0.36 | 13.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:21:53 | 55.12 | 50.12 | 434 | 2.79 | 0.36 | 23.7 |
| 4/25/2015 | 17:21:53 | 55.45 | 50.45 | 477 | 3.89 | 0.36 | 26.1 |
| 4/25/2015 | 17:21:54 | 55.77 | 50.77 | 488 | 3.25 | 0.37 | 26.7 |
| 4/25/2015 | 17:21:58 | 56.10 | 51.10 | 3 | 3.54 | 0.35 | 0.2 |
| 4/25/2015 | 17:21:58 | 56.43 | 51.43 | 103 | 2.54 | 0.36 | 5.6 |
| 4/25/2015 | 17:21:59 | 56.76 | 51.76 | 217 | 2.51 | 0.35 | 11.9 |
| 4/25/2015 | 17:22:00 | 57.09 | 52.09 | 341 | 3.28 | 0.36 | 18.6 |
| 4/25/2015 | 17:22:01 | 57.41 | 52.41 | 440 | 2.92 | 0.36 | 24.1 |
| 4/25/2015 | 17:22:01 | 57.74 | 52.74 | 552 | 3.07 | 0.36 | 30.2 |
| 4/25/2015 | 17:22:02 | 58.07 | 53.07 | 494 | 3.18 | 0.37 | 27.0 |
| 4/25/2015 | 17:22:03 | 58.40 | 53.40 | 398 | 6.33 | 0.37 | 21.7 |
| 4/25/2015 | 17:22:04 | 58.73 | 53.73 | 332 | 4.54 | 0.39 | 18.2 |
| 4/25/2015 | 17:22:06 | 59.06 | 54.06 | 228 | 3.41 | 0.37 | 12.5 |
| 4/25/2015 | 17:22:07 | 59.38 | 54.38 | 214 | 3.05 | 0.38 | 11.7 |
| 4/25/2015 | 17:22:09 | 59.71 | 54.71 | 270 | 3.56 | 0.37 | 14.8 |
| 4/25/2015 | 17:22:10 | 59.93 | 54.93 | 248 | 3.88 | 0.39 | 13.6 |

## H432 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:18:49

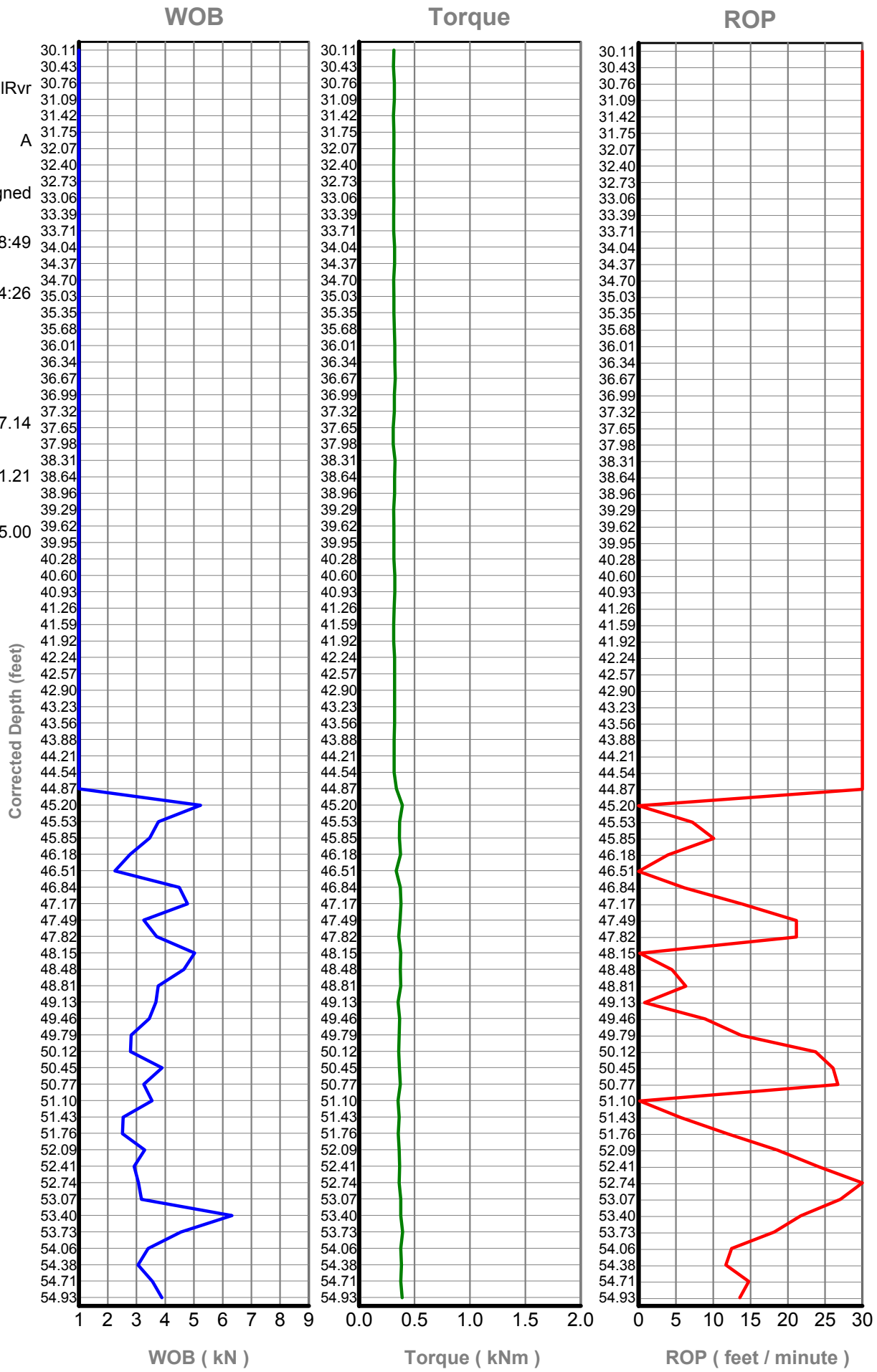
**End Date:**
4/25/2015 17:24:26

**Operator Note:**
'5 4.8 b Auto Complete'

**Northing:**
366,047.14

**Easting:**
250,751.21

**Tide (feet):**
5.00



## Hole: H433 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 17:16:40 | 35.11 | 30.21 | 537 | 1.76 | 0.30 | 29.4 |
| 4/25/2015 17:16:41 | 35.43 | 30.53 | 523 | 1.76 | 0.30 | 28.6 |
| 4/25/2015 17:16:41 | 35.76 | 30.86 | 523 | 1.79 | 0.30 | 28.6 |
| 4/25/2015 17:16:42 | 36.09 | 31.19 | 518 | 1.75 | 0.30 | 28.3 |
| 4/25/2015 17:16:43 | 36.42 | 31.52 | 520 | 1.76 | 0.30 | 28.4 |
| 4/25/2015 17:16:43 | 36.75 | 31.85 | 513 | 1.77 | 0.30 | 28.1 |
| 4/25/2015 17:16:44 | 37.07 | 32.17 | 513 | 1.77 | 0.30 | 28.1 |
| 4/25/2015 17:16:45 | 37.40 | 32.50 | 530 | 1.77 | 0.30 | 29.0 |
| 4/25/2015 17:16:45 | 37.73 | 32.83 | 519 | 1.76 | 0.30 | 28.4 |
| 4/25/2015 17:16:46 | 38.06 | 33.16 | 528 | 1.79 | 0.30 | 28.9 |
| 4/25/2015 17:16:47 | 38.39 | 33.49 | 517 | 1.76 | 0.30 | 28.3 |
| 4/25/2015 17:16:47 | 38.71 | 33.81 | 512 | 1.78 | 0.30 | 28.0 |
| 4/25/2015 17:16:48 | 39.04 | 34.14 | 515 | 1.76 | 0.30 | 28.2 |
| 4/25/2015 17:16:49 | 39.37 | 34.47 | 534 | 1.77 | 0.30 | 29.2 |
| 4/25/2015 17:16:49 | 39.70 | 34.80 | 524 | 1.78 | 0.30 | 28.7 |
| 4/25/2015 17:16:50 | 40.03 | 35.13 | 536 | 1.76 | 0.29 | 29.3 |
| 4/25/2015 17:16:50 | 40.35 | 35.45 | 534 | 1.77 | 0.30 | 29.2 |
| 4/25/2015 17:16:52 | 40.68 | 35.78 | 520 | 1.74 | 0.30 | 28.4 |
| 4/25/2015 17:16:52 | 41.01 | 36.11 | 526 | 1.76 | 0.34 | 28.8 |
| 4/25/2015 17:16:53 | 41.34 | 36.44 | 526 | 1.76 | 0.30 | 28.8 |
| 4/25/2015 17:16:54 | 41.67 | 36.77 | 524 | 1.77 | 0.30 | 28.6 |
| 4/25/2015 17:16:54 | 41.99 | 37.09 | 524 | 1.76 | 0.30 | 28.6 |
| 4/25/2015 17:16:55 | 42.32 | 37.42 | 527 | 1.77 | 0.30 | 28.8 |
| 4/25/2015 17:16:56 | 42.65 | 37.75 | 515 | 1.75 | 0.30 | 28.2 |
| 4/25/2015 17:16:56 | 42.98 | 38.08 | 519 | 1.77 | 0.30 | 28.4 |
| 4/25/2015 17:16:57 | 43.31 | 38.41 | 510 | 1.79 | 0.30 | 27.9 |
| 4/25/2015 17:16:58 | 43.64 | 38.74 | 516 | 1.78 | 0.30 | 28.2 |
| 4/25/2015 17:16:58 | 43.96 | 39.06 | 513 | 1.77 | 0.30 | 28.1 |
| 4/25/2015 17:16:59 | 44.29 | 39.39 | 528 | 1.76 | 0.30 | 28.9 |
| 4/25/2015 17:16:59 | 44.62 | 39.72 | 524 | 1.77 | 0.30 | 28.7 |
| 4/25/2015 17:17:00 | 44.95 | 40.05 | 530 | 1.78 | 0.30 | 29.0 |
| 4/25/2015 17:17:01 | 45.28 | 40.38 | 529 | 1.76 | 0.30 | 28.9 |
| 4/25/2015 17:17:02 | 45.60 | 40.70 | 520 | 1.78 | 0.30 | 28.5 |
| 4/25/2015 17:17:03 | 45.93 | 41.03 | 521 | 1.76 | 0.30 | 28.5 |
| 4/25/2015 17:17:03 | 46.26 | 41.36 | 524 | 1.77 | 0.30 | 28.6 |
| 4/25/2015 17:17:04 | 46.59 | 41.69 | 524 | 1.77 | 0.31 | 28.6 |
| 4/25/2015 17:17:05 | 46.92 | 42.02 | 520 | 1.76 | 0.30 | 28.5 |
| 4/25/2015 17:17:05 | 47.24 | 42.34 | 526 | 1.76 | 0.30 | 28.8 |
| 4/25/2015 17:17:06 | 47.57 | 42.67 | 523 | 1.77 | 0.30 | 28.6 |
| 4/25/2015 17:17:07 | 47.90 | 43.00 | 520 | 1.79 | 0.30 | 28.5 |
| 4/25/2015 17:17:26 | 48.23 | 43.33 | 57 | 1.79 | 1.13 | 3.1 |
| 4/25/2015 17:17:27 | 48.56 | 43.66 | 184 | 1.76 | 1.12 | 10.0 |
| 4/25/2015 17:17:28 | 48.88 | 43.98 | 264 | 1.77 | 1.18 | 14.4 |
| 4/25/2015 17:18:11 | 49.21 | 44.31 | 0 | 1.79 | 1.18 | 0.0 |
| 4/25/2015 17:18:30 | 49.54 | 44.64 | 67 | 1.75 | 1.19 | 3.7 |
| 4/25/2015 17:18:31 | 49.87 | 44.97 | 179 | 1.78 | 1.12 | 9.8 |
| 4/25/2015 17:18:34 | 50.20 | 45.30 | 9 | 1.79 | 1.06 | 0.5 |
| 4/25/2015 17:18:36 | 50.53 | 45.63 | 198 | 1.77 | 1.23 | 10.8 |
| 4/25/2015 17:18:37 | 50.85 | 45.95 | 315 | 1.77 | 1.03 | 17.2 |
| 4/25/2015 17:18:58 | 51.18 | 46.28 | 45 | 1.75 | 1.16 | 2.4 |
| 4/25/2015 17:19:00 | 51.51 | 46.61 | 136 | 1.74 | 1.12 | 7.4 |
| 4/25/2015 17:19:01 | 51.84 | 46.94 | 248 | 1.77 | 1.17 | 13.6 |
| 4/25/2015 17:19:26 | 52.17 | 47.27 | 69 | 1.81 | 1.20 | 3.8 |
| 4/25/2015 17:19:28 | 52.49 | 47.59 | 157 | 1.87 | 1.07 | 8.6 |
| 4/25/2015 17:19:30 | 52.82 | 47.92 | 245 | 1.78 | 1.12 | 13.4 |
| 4/25/2015 17:19:49 | 53.15 | 48.25 | 0 | 1.78 | 1.30 | 0.0 |
| 4/25/2015 17:19:50 | 53.48 | 48.58 | 109 | 1.76 | 0.91 | 6.0 |
| 4/25/2015 17:19:51 | 53.81 | 48.91 | 280 | 1.75 | 0.89 | 15.3 |
| 4/25/2015 17:19:51 | 54.13 | 49.23 | 377 | 1.76 | 0.86 | 20.6 |
| 4/25/2015 17:20:14 | 54.46 | 49.56 | 0 | 1.78 | 1.19 | 0.0 |
| 4/25/2015 17:20:15 | 54.79 | 49.89 | 113 | 1.79 | 1.27 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 17:20:16 | 55.12 | 50.22 | 256 | 1.75 | 1.01 | 14.0 |
| 4/25/2015 | 17:20:17 | 55.45 | 50.55 | 288 | 1.79 | 1.15 | 15.8 |
| 4/25/2015 | 17:20:18 | 55.77 | 50.87 | 285 | 1.77 | 0.87 | 15.6 |
| 4/25/2015 | 17:20:41 | 56.10 | 51.20 | 34 | 1.78 | 1.03 | 1.9 |
| 4/25/2015 | 17:20:42 | 56.43 | 51.53 | 171 | 1.75 | 1.03 | 9.3 |
| 4/25/2015 | 17:20:43 | 56.76 | 51.86 | 302 | 1.79 | 0.92 | 16.5 |
| 4/25/2015 | 17:20:44 | 57.09 | 52.19 | 335 | 1.77 | 1.02 | 18.3 |
| 4/25/2015 | 17:20:59 | 57.41 | 52.51 | 60 | 1.77 | 1.20 | 3.3 |
| 4/25/2015 | 17:21:00 | 57.74 | 52.84 | 162 | 1.76 | 1.15 | 8.8 |
| 4/25/2015 | 17:21:02 | 58.07 | 53.17 | 257 | 1.74 | 1.04 | 14.1 |
| 4/25/2015 | 17:21:03 | 58.40 | 53.50 | 243 | 1.79 | 1.14 | 13.3 |
| 4/25/2015 | 17:21:05 | 58.73 | 53.83 | 235 | 1.80 | 1.31 | 12.9 |
| 4/25/2015 | 17:21:06 | 59.06 | 54.16 | 268 | 1.74 | 0.99 | 14.7 |
| 4/25/2015 | 17:21:07 | 59.38 | 54.48 | 290 | 1.77 | 1.14 | 15.8 |
| 4/25/2015 | 17:21:08 | 59.71 | 54.81 | 287 | 1.79 | 1.06 | 15.7 |
| 4/25/2015 | 17:21:09 | 60.03 | 55.13 | 272 | 1.76 | 1.13 | 14.9 |

## H433 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 17:14:07

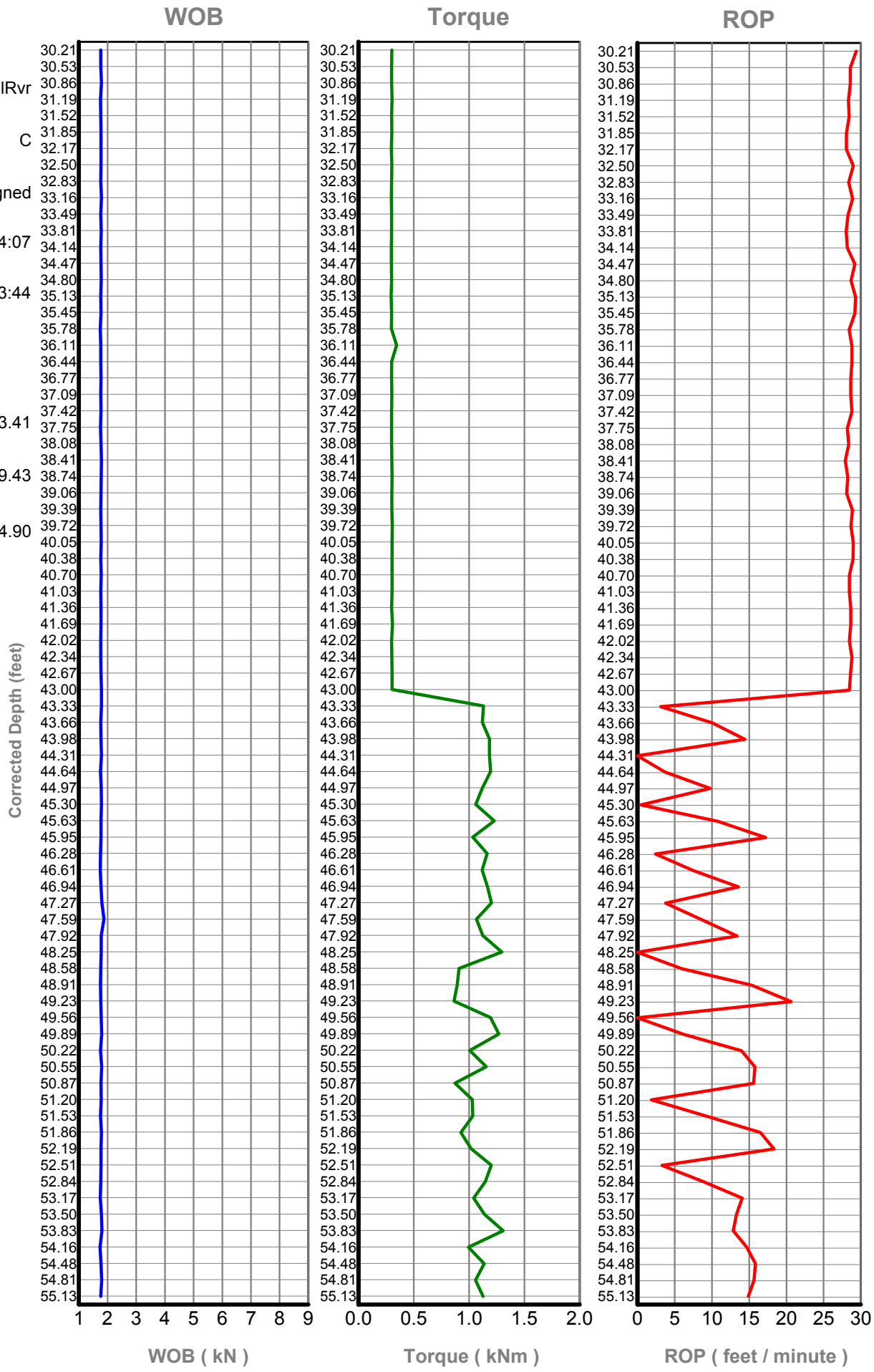
**End Date:**
4/25/2015 17:23:44

**Operator Note:**
'4.9 4.7 C Auto Complete'

**Northing:**
366,093.41

**Easting:**
250,809.43

**Tide (feet):**
4.90



## Hole: H434 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:13:38 | 32.15 | 30.15 | 1,054 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 15:13:38 | 32.48 | 30.48 | 1,032 | 0.33 | 0.31 | 56.4 |
| 4/25/2015 15:13:38 | 32.81 | 30.81 | 1,047 | 0.33 | 0.31 | 57.2 |
| 4/25/2015 15:13:39 | 33.14 | 31.14 | 1,047 | 0.33 | 0.31 | 57.2 |
| 4/25/2015 15:13:39 | 33.46 | 31.46 | 1,047 | 0.33 | 0.32 | 57.2 |
| 4/25/2015 15:13:39 | 33.79 | 31.79 | 1,055 | 0.33 | 0.31 | 57.7 |
| 4/25/2015 15:13:40 | 34.12 | 32.12 | 1,055 | 0.33 | 0.31 | 57.7 |
| 4/25/2015 15:13:40 | 34.45 | 32.45 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/25/2015 15:13:40 | 34.78 | 32.78 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/25/2015 15:13:41 | 35.11 | 33.11 | 1,058 | 0.33 | 0.31 | 57.9 |
| 4/25/2015 15:13:41 | 35.43 | 33.43 | 1,025 | 0.33 | 0.31 | 56.0 |
| 4/25/2015 15:13:41 | 35.76 | 33.76 | 1,025 | 0.33 | 0.31 | 56.0 |
| 4/25/2015 15:13:42 | 36.09 | 34.09 | 1,025 | 0.33 | 0.31 | 56.0 |
| 4/25/2015 15:13:42 | 36.42 | 34.42 | 1,049 | 0.32 | 0.32 | 57.3 |
| 4/25/2015 15:13:42 | 36.75 | 34.75 | 1,049 | 0.33 | 0.32 | 57.3 |
| 4/25/2015 15:13:43 | 37.07 | 35.07 | 1,049 | 0.33 | 0.32 | 57.3 |
| 4/25/2015 15:13:43 | 37.40 | 35.40 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 15:13:43 | 37.73 | 35.73 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 15:13:44 | 38.06 | 36.06 | 1,049 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 15:13:44 | 38.39 | 36.39 | 1,033 | 0.33 | 0.32 | 56.5 |
| 4/25/2015 15:13:44 | 38.71 | 36.71 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 15:13:45 | 39.04 | 37.04 | 1,044 | 0.33 | 0.32 | 57.1 |
| 4/25/2015 15:13:45 | 39.37 | 37.37 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 15:13:46 | 39.70 | 37.70 | 1,052 | 0.33 | 0.32 | 57.5 |
| 4/25/2015 15:13:46 | 40.03 | 38.03 | 1,038 | 0.33 | 0.31 | 56.8 |
| 4/25/2015 15:13:46 | 40.35 | 38.35 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 15:13:47 | 40.68 | 38.68 | 1,038 | 0.33 | 0.32 | 56.8 |
| 4/25/2015 15:13:47 | 41.01 | 39.01 | 1,043 | 0.33 | 0.31 | 57.0 |
| 4/25/2015 15:13:47 | 41.34 | 39.34 | 1,037 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 15:13:48 | 41.67 | 39.67 | 1,037 | 0.33 | 0.32 | 56.7 |
| 4/25/2015 15:13:48 | 41.99 | 39.99 | 1,049 | 0.32 | 0.31 | 57.4 |
| 4/25/2015 15:13:48 | 42.32 | 40.32 | 1,043 | 0.33 | 0.31 | 57.0 |
| 4/25/2015 15:13:49 | 42.65 | 40.65 | 1,043 | 0.33 | 0.31 | 57.0 |
| 4/25/2015 15:13:49 | 42.98 | 40.98 | 1,058 | 0.33 | 0.31 | 57.8 |
| 4/25/2015 15:13:49 | 43.31 | 41.31 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 15:13:50 | 43.64 | 41.64 | 1,050 | 0.33 | 0.31 | 57.4 |
| 4/25/2015 15:13:50 | 43.96 | 41.96 | 1,053 | 0.33 | 0.32 | 57.6 |
| 4/25/2015 15:13:50 | 44.29 | 42.29 | 1,056 | 0.33 | 0.32 | 57.8 |
| 4/25/2015 15:13:51 | 44.62 | 42.62 | 1,056 | 0.33 | 0.32 | 57.8 |
| 4/25/2015 15:13:51 | 44.95 | 42.95 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/25/2015 15:13:51 | 45.28 | 43.28 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 15:13:52 | 45.60 | 43.60 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/25/2015 15:13:52 | 45.93 | 43.93 | 1,047 | 0.32 | 0.31 | 57.3 |
| 4/25/2015 15:13:52 | 46.26 | 44.26 | 1,053 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 15:13:53 | 46.59 | 44.59 | 1,053 | 0.33 | 0.31 | 57.6 |
| 4/25/2015 15:13:53 | 46.92 | 44.92 | 1,032 | 0.31 | 0.33 | 56.4 |
| 4/25/2015 15:13:57 | 47.24 | 45.24 | 0 | 2.63 | 0.34 | 0.0 |
| 4/25/2015 15:13:58 | 47.57 | 45.57 | 122 | 3.28 | 0.38 | 6.7 |
| 4/25/2015 15:13:59 | 47.90 | 45.90 | 293 | 3.71 | 0.38 | 16.0 |
| 4/25/2015 15:14:00 | 48.23 | 46.23 | 370 | 3.01 | 0.37 | 20.2 |
| 4/25/2015 15:14:05 | 48.56 | 46.56 | 127 | 3.53 | 0.37 | 7.0 |
| 4/25/2015 15:14:05 | 48.88 | 46.88 | 211 | 2.69 | 0.36 | 11.6 |
| 4/25/2015 15:14:05 | 49.21 | 47.21 | 327 | 2.78 | 0.36 | 17.9 |
| 4/25/2015 15:14:06 | 49.54 | 47.54 | 327 | 3.56 | 0.37 | 17.9 |
| 4/25/2015 15:14:32 | 49.87 | 47.87 | 12 | 5.23 | 0.37 | 0.6 |
| 4/25/2015 15:14:34 | 50.20 | 48.20 | 187 | 4.56 | 0.38 | 10.2 |
| 4/25/2015 15:14:35 | 50.53 | 48.53 | 297 | 3.64 | 0.38 | 16.3 |
| 4/25/2015 15:14:36 | 50.85 | 48.85 | 326 | 2.66 | 0.35 | 17.8 |
| 4/25/2015 15:14:50 | 51.18 | 49.18 | 40 | 4.30 | 0.38 | 2.2 |
| 4/25/2015 15:14:55 | 51.51 | 49.51 | 11 | 5.04 | 0.40 | 0.6 |
| 4/25/2015 15:14:57 | 51.84 | 49.84 | 72 | 4.06 | 0.39 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 15:14:59 | 52.17 | 50.17 | 138 | 4.87 | 0.38 | 7.6 |
| 4/25/2015 | 15:15:06 | 52.49 | 50.49 | 0 | 2.95 | 0.38 | 0.0 |
| 4/25/2015 | 15:15:07 | 52.82 | 50.82 | 90 | 2.93 | 0.37 | 4.9 |
| 4/25/2015 | 15:15:08 | 53.15 | 51.15 | 187 | 3.93 | 0.37 | 10.2 |
| 4/25/2015 | 15:15:13 | 53.48 | 51.48 | 0 | 2.34 | 0.34 | 0.0 |
| 4/25/2015 | 15:15:19 | 53.81 | 51.81 | 0 | 2.34 | 0.34 | 0.0 |
| 4/25/2015 | 15:15:14 | 54.13 | 52.13 | 254 | 3.99 | 0.38 | 13.9 |
| 4/25/2015 | 15:15:20 | 54.46 | 52.46 | 44 | 3.33 | 0.35 | 2.4 |
| 4/25/2015 | 15:15:21 | 54.79 | 52.79 | 187 | 3.15 | 0.36 | 10.2 |
| 4/25/2015 | 15:15:22 | 55.12 | 53.12 | 376 | 3.73 | 0.37 | 20.6 |
| 4/25/2015 | 15:15:22 | 55.45 | 53.45 | 476 | 3.18 | 0.36 | 26.0 |
| 4/25/2015 | 15:15:23 | 55.77 | 53.77 | 535 | 2.73 | 0.37 | 29.2 |
| 4/25/2015 | 15:15:24 | 56.10 | 54.10 | 469 | 2.78 | 0.36 | 25.6 |
| 4/25/2015 | 15:15:24 | 56.43 | 54.43 | 494 | 2.38 | 0.36 | 27.0 |
| 4/25/2015 | 15:15:25 | 56.76 | 54.76 | 494 | 2.23 | 0.35 | 27.0 |
| 4/25/2015 | 15:15:26 | 57.09 | 55.09 | 526 | 2.17 | 0.36 | 28.8 |
| 4/25/2015 | 15:15:26 | 57.34 | 55.34 | 526 | 2.17 | 0.36 | 28.8 |

## H434 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:12:03

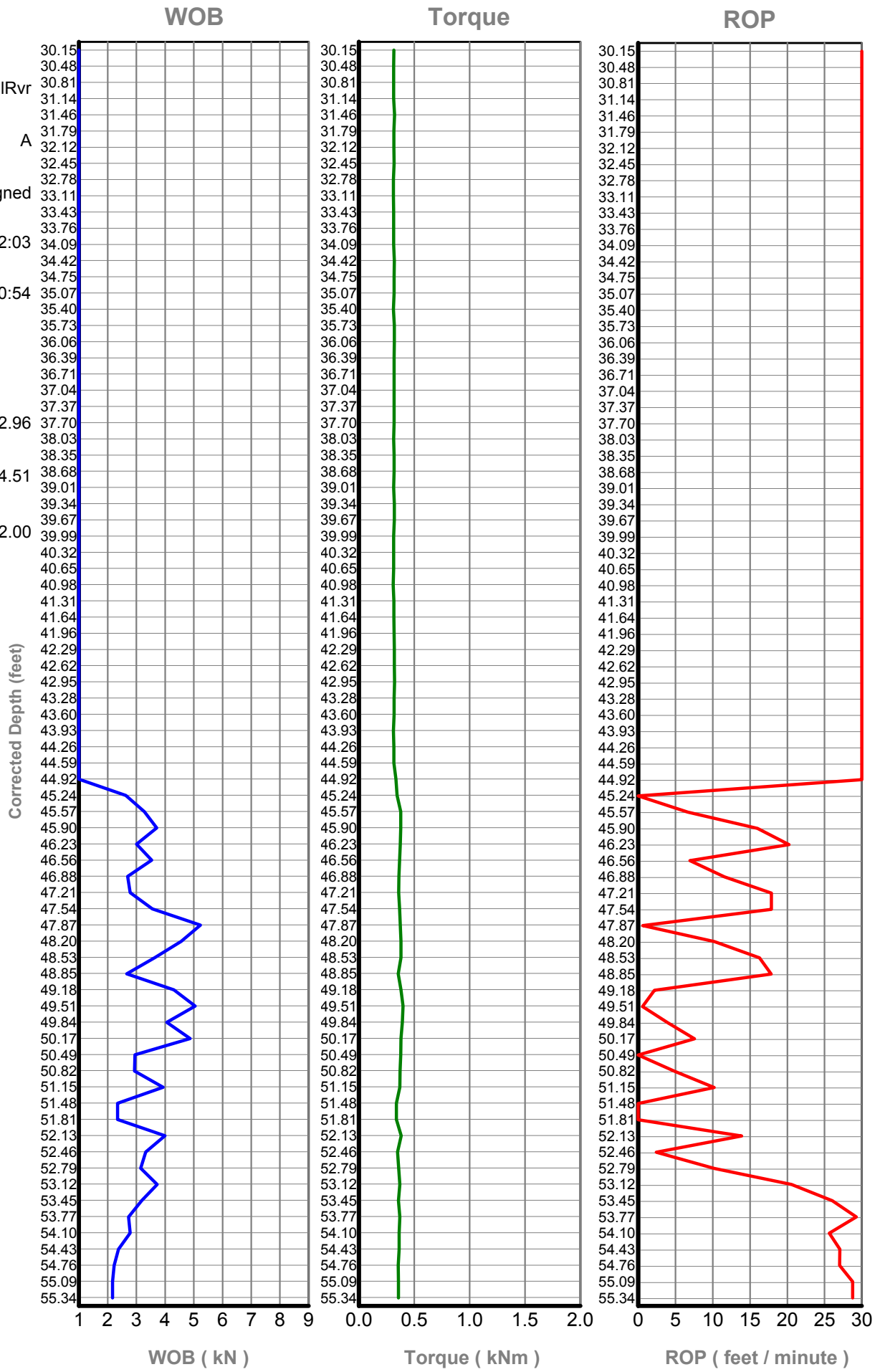
**End Date:**
4/25/2015 15:50:54

**Operator Note:**
'2 1.9 b Auto Complete'

**Northing:**
366,162.96

**Easting:**
250,884.51

**Tide (feet):**
2.00



## Hole: H435 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:09:24 | 32.15 | 30.15 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 15:09:25 | 32.48 | 30.48 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 15:09:24 | 32.81 | 30.81 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:25 | 33.14 | 31.14 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:09:26 | 33.46 | 31.46 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:09:26 | 33.79 | 31.79 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:09:26 | 34.12 | 32.12 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:09:27 | 34.45 | 32.45 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/25/2015 15:09:27 | 34.78 | 32.78 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 15:09:27 | 35.11 | 33.11 | 1,030 | 0.32 | 0.32 | 56.3 |
| 4/25/2015 15:09:28 | 35.43 | 33.43 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/25/2015 15:09:28 | 35.76 | 33.76 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/25/2015 15:09:28 | 36.09 | 34.09 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/25/2015 15:09:29 | 36.42 | 34.42 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 15:09:29 | 36.75 | 34.75 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/25/2015 15:09:29 | 37.07 | 35.07 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/25/2015 15:09:30 | 37.40 | 35.40 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/25/2015 15:09:30 | 37.73 | 35.73 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/25/2015 15:09:30 | 38.06 | 36.06 | 1,017 | 0.32 | 0.32 | 55.6 |
| 4/25/2015 15:09:31 | 38.39 | 36.39 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:31 | 38.71 | 36.71 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:31 | 39.04 | 37.04 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 15:09:32 | 39.37 | 37.37 | 1,023 | 0.32 | 0.29 | 56.0 |
| 4/25/2015 15:09:32 | 39.70 | 37.70 | 1,023 | 0.32 | 0.29 | 56.0 |
| 4/25/2015 15:09:32 | 40.03 | 38.03 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/25/2015 15:09:33 | 40.35 | 38.35 | 1,026 | 0.33 | 0.33 | 56.1 |
| 4/25/2015 15:09:33 | 40.68 | 38.68 | 1,026 | 0.33 | 0.33 | 56.1 |
| 4/25/2015 15:09:33 | 41.01 | 39.01 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/25/2015 15:09:34 | 41.34 | 39.34 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:34 | 41.67 | 39.67 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:34 | 41.99 | 39.99 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/25/2015 15:09:35 | 42.32 | 40.32 | 1,008 | 0.32 | 0.32 | 55.1 |
| 4/25/2015 15:09:35 | 42.65 | 40.65 | 1,008 | 0.32 | 0.32 | 55.1 |
| 4/25/2015 15:09:36 | 42.98 | 40.98 | 1,024 | 0.32 | 0.30 | 56.0 |
| 4/25/2015 15:09:36 | 43.31 | 41.31 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:37 | 43.64 | 41.64 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:37 | 43.96 | 41.96 | 1,018 | 0.32 | 0.32 | 55.7 |
| 4/25/2015 15:09:37 | 44.29 | 42.29 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:38 | 44.62 | 42.62 | 1,021 | 0.32 | 0.32 | 55.8 |
| 4/25/2015 15:09:38 | 44.95 | 42.95 | 1,027 | 0.32 | 0.32 | 56.2 |
| 4/25/2015 15:09:38 | 45.28 | 43.28 | 1,003 | 0.32 | 0.32 | 54.8 |
| 4/25/2015 15:09:39 | 45.60 | 43.60 | 1,003 | 0.32 | 0.32 | 54.8 |
| 4/25/2015 15:09:39 | 45.93 | 43.93 | 1,015 | 0.32 | 0.32 | 55.5 |
| 4/25/2015 15:09:39 | 46.26 | 44.26 | 1,010 | 0.32 | 0.32 | 55.2 |
| 4/25/2015 15:09:40 | 46.59 | 44.59 | 1,010 | 0.32 | 0.32 | 55.2 |
| 4/25/2015 15:09:40 | 46.92 | 44.92 | 1,010 | 0.33 | 0.32 | 55.2 |
| 4/25/2015 15:09:40 | 47.24 | 45.24 | 1,007 | 0.31 | 0.35 | 55.1 |
| 4/25/2015 15:09:46 | 47.57 | 45.57 | 6 | 3.69 | 0.39 | 0.3 |
| 4/25/2015 15:09:50 | 47.90 | 45.90 | 97 | 3.25 | 0.36 | 5.3 |
| 4/25/2015 15:09:54 | 48.23 | 46.23 | 81 | 2.75 | 0.36 | 4.5 |
| 4/25/2015 15:09:56 | 48.56 | 46.56 | 95 | 4.32 | 0.37 | 5.2 |
| 4/25/2015 15:09:57 | 48.88 | 46.88 | 137 | 3.20 | 0.37 | 7.5 |
| 4/25/2015 15:09:57 | 49.21 | 47.21 | 236 | 3.83 | 0.36 | 12.9 |
| 4/25/2015 15:10:03 | 49.54 | 47.54 | 0 | 2.83 | 0.37 | 0.0 |
| 4/25/2015 15:10:03 | 49.87 | 47.87 | 56 | 3.06 | 0.37 | 3.1 |
| 4/25/2015 15:10:08 | 50.20 | 48.20 | 26 | 2.99 | 0.37 | 1.4 |
| 4/25/2015 15:10:13 | 50.53 | 48.53 | 52 | 3.46 | 0.38 | 2.8 |
| 4/25/2015 15:10:14 | 50.85 | 48.85 | 173 | 4.05 | 0.38 | 9.5 |
| 4/25/2015 15:10:18 | 51.18 | 49.18 | 36 | 4.16 | 0.36 | 2.0 |
| 4/25/2015 15:10:19 | 51.51 | 49.51 | 130 | 4.03 | 0.37 | 7.1 |
| 4/25/2015 15:10:25 | 51.84 | 49.84 | 58 | 4.08 | 0.38 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 15:10:25 | 52.17 | 50.17 | 118 | 3.01 | 0.37 | 6.5 |
| 4/25/2015 | 15:10:26 | 52.49 | 50.49 | 306 | 2.21 | 0.36 | 16.8 |
| 4/25/2015 | 15:10:27 | 52.82 | 50.82 | 410 | 2.59 | 0.35 | 22.4 |
| 4/25/2015 | 15:10:28 | 53.15 | 51.15 | 524 | 2.24 | 0.34 | 28.7 |
| 4/25/2015 | 15:10:28 | 53.48 | 51.48 | 524 | 2.24 | 0.34 | 28.7 |
| 4/25/2015 | 15:10:28 | 53.81 | 51.81 | 631 | 2.44 | 0.34 | 34.5 |
| 4/25/2015 | 15:10:29 | 54.13 | 52.13 | 693 | 2.33 | 0.35 | 37.9 |
| 4/25/2015 | 15:10:30 | 54.46 | 52.46 | 686 | 2.43 | 0.36 | 37.5 |
| 4/25/2015 | 15:10:30 | 54.79 | 52.79 | 643 | 2.55 | 0.36 | 35.1 |
| 4/25/2015 | 15:10:31 | 55.12 | 53.12 | 514 | 2.89 | 0.37 | 28.1 |
| 4/25/2015 | 15:10:32 | 55.45 | 53.45 | 468 | 2.78 | 0.37 | 25.6 |
| 4/25/2015 | 15:10:33 | 55.77 | 53.77 | 471 | 2.57 | 0.36 | 25.8 |
| 4/25/2015 | 15:10:33 | 56.10 | 54.10 | 471 | 2.08 | 0.35 | 25.8 |
| 4/25/2015 | 15:10:34 | 56.43 | 54.43 | 500 | 2.17 | 0.36 | 27.3 |
| 4/25/2015 | 15:10:34 | 56.76 | 54.76 | 547 | 3.34 | 0.37 | 29.9 |
| 4/25/2015 | 15:10:35 | 57.07 | 55.07 | 567 | 3.43 | 0.37 | 31.0 |

## H435 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:07:23

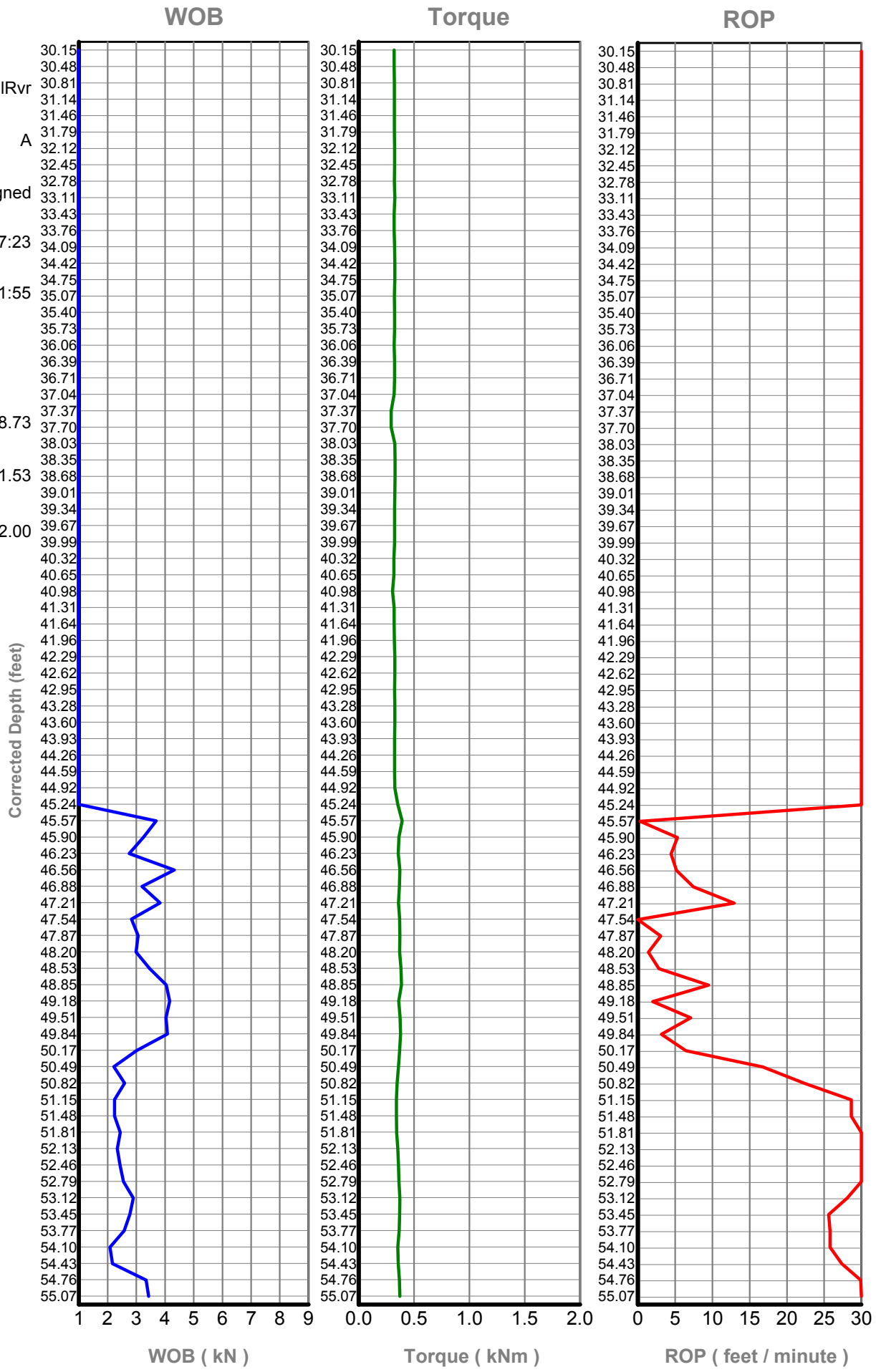
**End Date:**
4/25/2015 15:11:55

**Operator Note:**
'2 1.9 b Auto Complete'

**Northing:**
366,198.73

**Easting:**
250,931.53

**Tide (feet):**
2.00



## Hole: H436 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 15:10:54 | 32.15 | 30.15 | 543 | 1.76 | 0.30 | 29.7 |
| 4/25/2015 15:10:55 | 32.48 | 30.48 | 546 | 1.77 | 0.31 | 29.9 |
| 4/25/2015 15:10:56 | 32.81 | 30.81 | 546 | 1.77 | 0.31 | 29.9 |
| 4/25/2015 15:10:56 | 33.14 | 31.14 | 543 | 1.78 | 0.31 | 29.7 |
| 4/25/2015 15:10:57 | 33.46 | 31.46 | 543 | 1.76 | 0.31 | 29.7 |
| 4/25/2015 15:10:58 | 33.79 | 31.79 | 529 | 1.76 | 0.31 | 28.9 |
| 4/25/2015 15:10:58 | 34.12 | 32.12 | 529 | 1.77 | 0.31 | 28.9 |
| 4/25/2015 15:10:59 | 34.45 | 32.45 | 532 | 1.77 | 0.31 | 29.1 |
| 4/25/2015 15:10:59 | 34.78 | 32.78 | 539 | 1.76 | 0.31 | 29.5 |
| 4/25/2015 15:11:00 | 35.11 | 33.11 | 530 | 1.76 | 0.31 | 29.0 |
| 4/25/2015 15:11:01 | 35.43 | 33.43 | 539 | 1.76 | 0.31 | 29.5 |
| 4/25/2015 15:11:01 | 35.76 | 33.76 | 539 | 1.75 | 0.31 | 29.5 |
| 4/25/2015 15:11:02 | 36.09 | 34.09 | 528 | 1.76 | 0.31 | 28.9 |
| 4/25/2015 15:11:03 | 36.42 | 34.42 | 535 | 1.76 | 0.31 | 29.3 |
| 4/25/2015 15:11:03 | 36.75 | 34.75 | 550 | 1.77 | 0.31 | 30.1 |
| 4/25/2015 15:11:04 | 37.07 | 35.07 | 550 | 1.79 | 0.31 | 30.1 |
| 4/25/2015 15:11:05 | 37.40 | 35.40 | 550 | 1.78 | 0.31 | 30.1 |
| 4/25/2015 15:11:06 | 37.73 | 35.73 | 543 | 1.76 | 0.31 | 29.7 |
| 4/25/2015 15:11:06 | 38.06 | 36.06 | 540 | 1.77 | 0.31 | 29.6 |
| 4/25/2015 15:11:07 | 38.39 | 36.39 | 540 | 1.76 | 0.31 | 29.6 |
| 4/25/2015 15:11:08 | 38.71 | 36.71 | 541 | 1.76 | 0.31 | 29.6 |
| 4/25/2015 15:11:08 | 39.04 | 37.04 | 529 | 1.77 | 0.31 | 28.9 |
| 4/25/2015 15:11:09 | 39.37 | 37.37 | 529 | 1.77 | 0.31 | 28.9 |
| 4/25/2015 15:11:09 | 39.70 | 37.70 | 534 | 1.77 | 0.31 | 29.2 |
| 4/25/2015 15:11:10 | 40.03 | 38.03 | 540 | 1.79 | 0.31 | 29.5 |
| 4/25/2015 15:11:11 | 40.35 | 38.35 | 534 | 1.75 | 0.31 | 29.2 |
| 4/25/2015 15:11:11 | 40.68 | 38.68 | 540 | 1.78 | 0.31 | 29.5 |
| 4/25/2015 15:11:12 | 41.01 | 39.01 | 542 | 1.78 | 0.31 | 29.6 |
| 4/25/2015 15:11:13 | 41.34 | 39.34 | 538 | 1.76 | 0.31 | 29.4 |
| 4/25/2015 15:11:13 | 41.67 | 39.67 | 538 | 1.77 | 0.31 | 29.4 |
| 4/25/2015 15:11:14 | 41.99 | 39.99 | 547 | 1.78 | 0.30 | 29.9 |
| 4/25/2015 15:11:15 | 42.32 | 40.32 | 541 | 1.77 | 0.31 | 29.6 |
| 4/25/2015 15:11:16 | 42.65 | 40.65 | 538 | 1.76 | 0.31 | 29.4 |
| 4/25/2015 15:11:16 | 42.98 | 40.98 | 538 | 1.76 | 0.31 | 29.4 |
| 4/25/2015 15:11:17 | 43.31 | 41.31 | 532 | 1.78 | 0.31 | 29.1 |
| 4/25/2015 15:11:18 | 43.64 | 41.64 | 535 | 1.77 | 0.30 | 29.2 |
| 4/25/2015 15:11:18 | 43.96 | 41.96 | 541 | 1.76 | 0.30 | 29.6 |
| 4/25/2015 15:11:19 | 44.29 | 42.29 | 541 | 1.77 | 0.30 | 29.6 |
| 4/25/2015 15:11:20 | 44.62 | 42.62 | 541 | 1.75 | 0.30 | 29.6 |
| 4/25/2015 15:11:20 | 44.95 | 42.95 | 541 | 1.79 | 0.30 | 29.6 |
| 4/25/2015 15:11:21 | 45.28 | 43.28 | 538 | 1.76 | 0.30 | 29.4 |
| 4/25/2015 15:11:21 | 45.60 | 43.60 | 538 | 1.76 | 0.30 | 29.4 |
| 4/25/2015 15:11:22 | 45.93 | 43.93 | 538 | 1.76 | 0.30 | 29.4 |
| 4/25/2015 15:11:23 | 46.26 | 44.26 | 538 | 1.77 | 0.30 | 29.4 |
| 4/25/2015 15:11:23 | 46.59 | 44.59 | 541 | 1.77 | 0.30 | 29.6 |
| 4/25/2015 15:11:24 | 46.92 | 44.92 | 541 | 1.77 | 0.30 | 29.6 |
| 4/25/2015 15:11:25 | 47.24 | 45.24 | 535 | 1.78 | 0.30 | 29.3 |
| 4/25/2015 15:12:03 | 47.57 | 45.57 | 104 | 1.77 | 1.13 | 5.7 |
| 4/25/2015 15:12:04 | 47.90 | 45.90 | 226 | 1.79 | 1.15 | 12.3 |
| 4/25/2015 15:12:05 | 48.23 | 46.23 | 300 | 1.76 | 1.21 | 16.4 |
| 4/25/2015 15:12:22 | 48.56 | 46.56 | 5 | 1.80 | 1.26 | 0.3 |
| 4/25/2015 15:12:24 | 48.88 | 46.88 | 152 | 1.81 | 1.19 | 8.3 |
| 4/25/2015 15:12:25 | 49.21 | 47.21 | 251 | 1.77 | 1.00 | 13.7 |
| 4/25/2015 15:13:09 | 49.54 | 47.54 | 46 | 1.77 | 1.27 | 2.5 |
| 4/25/2015 15:13:34 | 49.87 | 47.87 | 52 | 1.77 | 1.27 | 2.8 |
| 4/25/2015 15:13:35 | 50.20 | 48.20 | 187 | 1.76 | 1.08 | 10.2 |
| 4/25/2015 15:13:36 | 50.53 | 48.53 | 246 | 1.79 | 1.01 | 13.4 |
| 4/25/2015 15:13:38 | 50.85 | 48.85 | 288 | 1.77 | 1.04 | 15.7 |
| 4/25/2015 15:14:05 | 51.18 | 49.18 | 31 | 1.78 | 1.25 | 1.7 |
| 4/25/2015 15:14:07 | 51.51 | 49.51 | 165 | 1.79 | 1.09 | 9.0 |
| 4/25/2015 15:14:28 | 51.84 | 49.84 | 47 | 1.77 | 1.35 | 2.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 15:14:29 | 52.17 | 50.17 | 158 | 1.79 | 1.21 | 8.6 |
| 4/25/2015 | 15:15:01 | 52.49 | 50.49 | 0 | 1.76 | 1.15 | 0.0 |
| 4/25/2015 | 15:15:02 | 52.82 | 50.82 | 109 | 1.75 | 1.07 | 6.0 |
| 4/25/2015 | 15:15:04 | 53.15 | 51.15 | 235 | 1.75 | 1.17 | 12.8 |
| 4/25/2015 | 15:15:06 | 53.48 | 51.48 | 269 | 1.79 | 1.47 | 14.7 |
| 4/25/2015 | 15:15:46 | 53.81 | 51.81 | 33 | 1.77 | 1.23 | 1.8 |
| 4/25/2015 | 15:15:47 | 54.13 | 52.13 | 133 | 1.79 | 0.96 | 7.3 |
| 4/25/2015 | 15:15:49 | 54.46 | 52.46 | 212 | 1.76 | 1.22 | 11.6 |
| 4/25/2015 | 15:15:50 | 54.79 | 52.79 | 220 | 1.77 | 0.99 | 12.0 |
| 4/25/2015 | 15:15:51 | 55.12 | 53.12 | 265 | 1.75 | 1.09 | 14.5 |
| 4/25/2015 | 15:15:52 | 55.45 | 53.45 | 300 | 1.76 | 1.05 | 16.4 |
| 4/25/2015 | 15:16:23 | 55.77 | 53.77 | 0 | 1.79 | 1.15 | 0.0 |
| 4/25/2015 | 15:16:24 | 56.10 | 54.10 | 134 | 1.77 | 1.21 | 7.3 |
| 4/25/2015 | 15:16:25 | 56.43 | 54.43 | 262 | 1.77 | 1.15 | 14.3 |
| 4/25/2015 | 15:16:27 | 56.76 | 54.76 | 295 | 1.77 | 1.13 | 16.1 |
| 4/25/2015 | 15:16:28 | 57.08 | 55.08 | 267 | 1.54 | 1.12 | 14.6 |

## H436 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 15:09:07

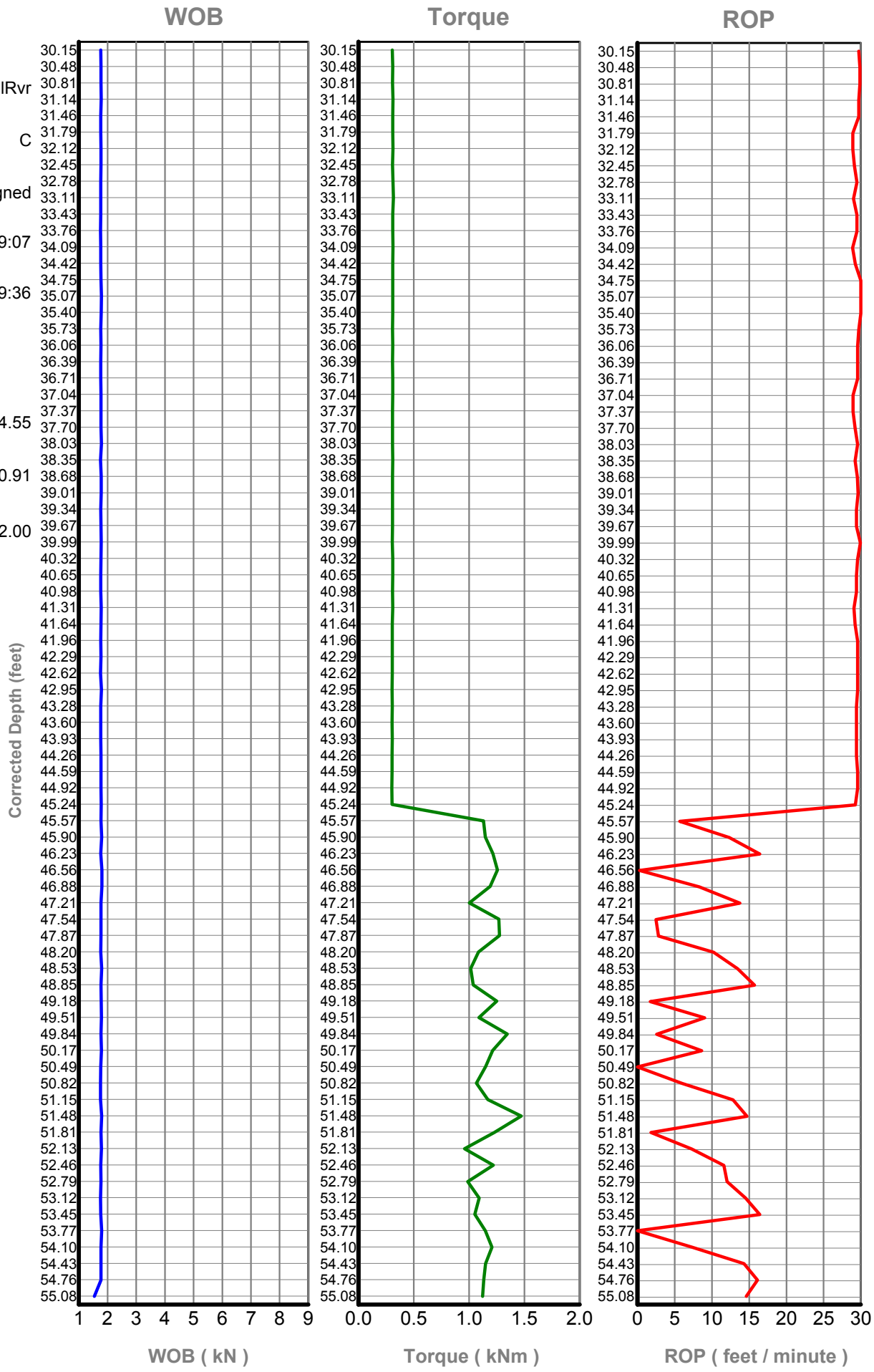
**End Date:**
4/25/2015 15:19:36

**Operator Note:**
'2 1.9 C Auto Complete'

**Northing:**
366,244.55

**Easting:**
250,990.91

**Tide (feet):**
2.00



## Hole: H437 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:26:10 | 34.12 | 30.02 | 859 | 0.31 | 0.35 | 47.0 |
| 4/25/2015 3:26:10 | 34.45 | 30.35 | 864 | 0.31 | 0.36 | 47.2 |
| 4/25/2015 3:26:13 | 34.78 | 30.68 | 558 | 0.29 | 0.39 | 30.5 |
| 4/25/2015 3:26:14 | 35.11 | 31.01 | 418 | 0.29 | 0.38 | 22.9 |
| 4/25/2015 3:26:15 | 35.43 | 31.33 | 225 | 0.29 | 0.39 | 12.3 |
| 4/25/2015 3:26:16 | 35.76 | 31.66 | 320 | 0.29 | 0.39 | 17.5 |
| 4/25/2015 3:26:17 | 36.09 | 31.99 | 340 | 0.29 | 0.39 | 18.6 |
| 4/25/2015 3:26:18 | 36.42 | 32.32 | 332 | 0.29 | 0.39 | 18.1 |
| 4/25/2015 3:26:19 | 36.75 | 32.65 | 332 | 0.28 | 0.38 | 18.1 |
| 4/25/2015 3:26:21 | 37.07 | 32.97 | 331 | 0.28 | 0.39 | 18.1 |
| 4/25/2015 3:26:27 | 37.40 | 33.30 | 0 | 0.24 | 0.33 | 0.0 |
| 4/25/2015 3:26:28 | 37.73 | 33.63 | 137 | 0.26 | 0.33 | 7.5 |
| 4/25/2015 3:26:28 | 38.06 | 33.96 | 137 | 0.26 | 0.33 | 7.5 |
| 4/25/2015 3:26:28 | 38.39 | 34.29 | 291 | 0.22 | 0.33 | 15.9 |
| 4/25/2015 3:26:29 | 38.71 | 34.61 | 291 | 0.21 | 0.33 | 15.9 |
| 4/25/2015 3:26:29 | 39.04 | 34.94 | 470 | 0.21 | 0.33 | 25.7 |
| 4/25/2015 3:26:30 | 39.37 | 35.27 | 470 | 0.20 | 0.33 | 25.7 |
| 4/25/2015 3:26:30 | 39.70 | 35.60 | 470 | 0.20 | 0.33 | 25.7 |
| 4/25/2015 3:26:30 | 40.03 | 35.93 | 654 | 0.21 | 0.33 | 35.8 |
| 4/25/2015 3:26:31 | 40.35 | 36.25 | 819 | 0.21 | 0.33 | 44.8 |
| 4/25/2015 3:26:31 | 40.68 | 36.58 | 819 | 0.21 | 0.33 | 44.8 |
| 4/25/2015 3:26:32 | 41.01 | 36.91 | 857 | 0.20 | 0.33 | 46.9 |
| 4/25/2015 3:26:32 | 41.34 | 37.24 | 857 | 0.20 | 0.33 | 46.9 |
| 4/25/2015 3:26:33 | 41.67 | 37.57 | 885 | 0.22 | 0.32 | 48.4 |
| 4/25/2015 3:26:33 | 41.99 | 37.89 | 857 | 0.20 | 0.33 | 46.9 |
| 4/25/2015 3:26:34 | 42.32 | 38.22 | 857 | 0.21 | 0.33 | 46.9 |
| 4/25/2015 3:26:34 | 42.65 | 38.55 | 857 | 0.21 | 0.33 | 46.9 |
| 4/25/2015 3:26:34 | 42.98 | 38.88 | 860 | 0.21 | 0.33 | 47.0 |
| 4/25/2015 3:26:35 | 43.31 | 39.21 | 849 | 0.21 | 0.33 | 46.4 |
| 4/25/2015 3:26:35 | 43.64 | 39.54 | 849 | 0.21 | 0.33 | 46.4 |
| 4/25/2015 3:26:36 | 43.96 | 39.86 | 850 | 0.21 | 0.33 | 46.5 |
| 4/25/2015 3:26:36 | 44.29 | 40.19 | 850 | 0.21 | 0.33 | 46.5 |
| 4/25/2015 3:26:36 | 44.62 | 40.52 | 845 | 0.21 | 0.33 | 46.2 |
| 4/25/2015 3:26:37 | 44.95 | 40.85 | 878 | 0.21 | 0.31 | 48.0 |
| 4/25/2015 3:26:37 | 45.28 | 41.18 | 868 | 0.21 | 0.33 | 47.5 |
| 4/25/2015 3:26:38 | 45.60 | 41.50 | 872 | 0.21 | 0.33 | 47.7 |
| 4/25/2015 3:26:38 | 45.93 | 41.83 | 872 | 0.21 | 0.33 | 47.7 |
| 4/25/2015 3:26:38 | 46.26 | 42.16 | 869 | 0.21 | 0.33 | 47.5 |
| 4/25/2015 3:26:39 | 46.59 | 42.49 | 857 | 0.21 | 0.33 | 46.8 |
| 4/25/2015 3:26:39 | 46.92 | 42.82 | 857 | 0.22 | 0.33 | 46.8 |
| 4/25/2015 3:26:40 | 47.24 | 43.14 | 848 | 0.22 | 0.33 | 46.4 |
| 4/25/2015 3:26:40 | 47.57 | 43.47 | 848 | 0.22 | 0.33 | 46.4 |
| 4/25/2015 3:26:40 | 47.90 | 43.80 | 848 | 0.22 | 0.33 | 46.4 |
| 4/25/2015 3:26:41 | 48.23 | 44.13 | 843 | 0.22 | 0.32 | 46.1 |
| 4/25/2015 3:26:41 | 48.56 | 44.46 | 862 | 0.21 | 0.33 | 47.1 |
| 4/25/2015 3:26:42 | 48.88 | 44.78 | 862 | 0.21 | 0.33 | 47.1 |
| 4/25/2015 3:26:42 | 49.21 | 45.11 | 862 | 0.21 | 0.33 | 47.1 |
| 4/25/2015 3:26:42 | 49.54 | 45.44 | 878 | 0.21 | 0.33 | 48.0 |
| 4/25/2015 3:26:43 | 49.87 | 45.77 | 876 | 0.20 | 0.37 | 47.9 |
| 4/25/2015 3:27:00 | 50.20 | 46.10 | 12 | 3.20 | 0.38 | 0.7 |
| 4/25/2015 3:27:08 | 50.53 | 46.43 | 22 | 2.93 | 0.37 | 1.2 |
| 4/25/2015 3:27:11 | 50.85 | 46.75 | 108 | 3.79 | 0.40 | 5.9 |
| 4/25/2015 3:27:12 | 51.18 | 47.08 | 161 | 3.93 | 0.38 | 8.8 |
| 4/25/2015 3:27:13 | 51.51 | 47.41 | 226 | 3.37 | 0.37 | 12.4 |
| 4/25/2015 3:27:14 | 51.84 | 47.74 | 311 | 2.38 | 0.34 | 17.0 |
| 4/25/2015 3:27:15 | 52.17 | 48.07 | 388 | 3.26 | 0.35 | 21.2 |
| 4/25/2015 3:27:16 | 52.49 | 48.39 | 435 | 3.63 | 0.37 | 23.8 |
| 4/25/2015 3:27:17 | 52.82 | 48.72 | 457 | 2.96 | 0.37 | 25.0 |
| 4/25/2015 3:27:17 | 53.15 | 49.05 | 469 | 3.42 | 0.36 | 25.7 |
| 4/25/2015 3:27:18 | 53.48 | 49.38 | 429 | 3.81 | 0.37 | 23.5 |
| 4/25/2015 3:27:19 | 53.81 | 49.71 | 414 | 4.03 | 0.37 | 22.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:28:03 | 54.13 | 50.03 | 15 | 5.19 | 0.38 | 0.8 |
| 4/25/2015 | 3:28:04 | 54.46 | 50.36 | 70 | 3.88 | 0.38 | 3.8 |
| 4/25/2015 | 3:28:05 | 54.79 | 50.69 | 196 | 4.28 | 0.38 | 10.7 |
| 4/25/2015 | 3:28:07 | 55.12 | 51.02 | 286 | 4.48 | 0.38 | 15.7 |
| 4/25/2015 | 3:28:08 | 55.45 | 51.35 | 279 | 3.79 | 0.37 | 15.2 |
| 4/25/2015 | 3:28:10 | 55.77 | 51.67 | 286 | 4.05 | 0.38 | 15.6 |
| 4/25/2015 | 3:28:11 | 56.10 | 52.00 | 278 | 3.95 | 0.38 | 15.2 |
| 4/25/2015 | 3:28:12 | 56.43 | 52.33 | 242 | 4.32 | 0.38 | 13.2 |
| 4/25/2015 | 3:28:14 | 56.76 | 52.66 | 235 | 4.64 | 0.38 | 12.8 |
| 4/25/2015 | 3:28:16 | 57.09 | 52.99 | 219 | 4.05 | 0.39 | 12.0 |
| 4/25/2015 | 3:28:17 | 57.41 | 53.31 | 215 | 3.77 | 0.38 | 11.8 |
| 4/25/2015 | 3:28:19 | 57.74 | 53.64 | 214 | 3.75 | 0.39 | 11.7 |
| 4/25/2015 | 3:28:21 | 58.07 | 53.97 | 216 | 3.91 | 0.38 | 11.8 |
| 4/25/2015 | 3:28:22 | 58.40 | 54.30 | 219 | 4.18 | 0.38 | 12.0 |
| 4/25/2015 | 3:28:23 | 58.73 | 54.63 | 244 | 4.42 | 0.38 | 13.3 |
| 4/25/2015 | 3:28:24 | 59.06 | 54.96 | 267 | 4.43 | 0.38 | 14.6 |
| 4/25/2015 | 3:28:32 | 59.14 | 55.04 | 18 | 4.88 | 0.39 | 1.0 |

## H437 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:22:31

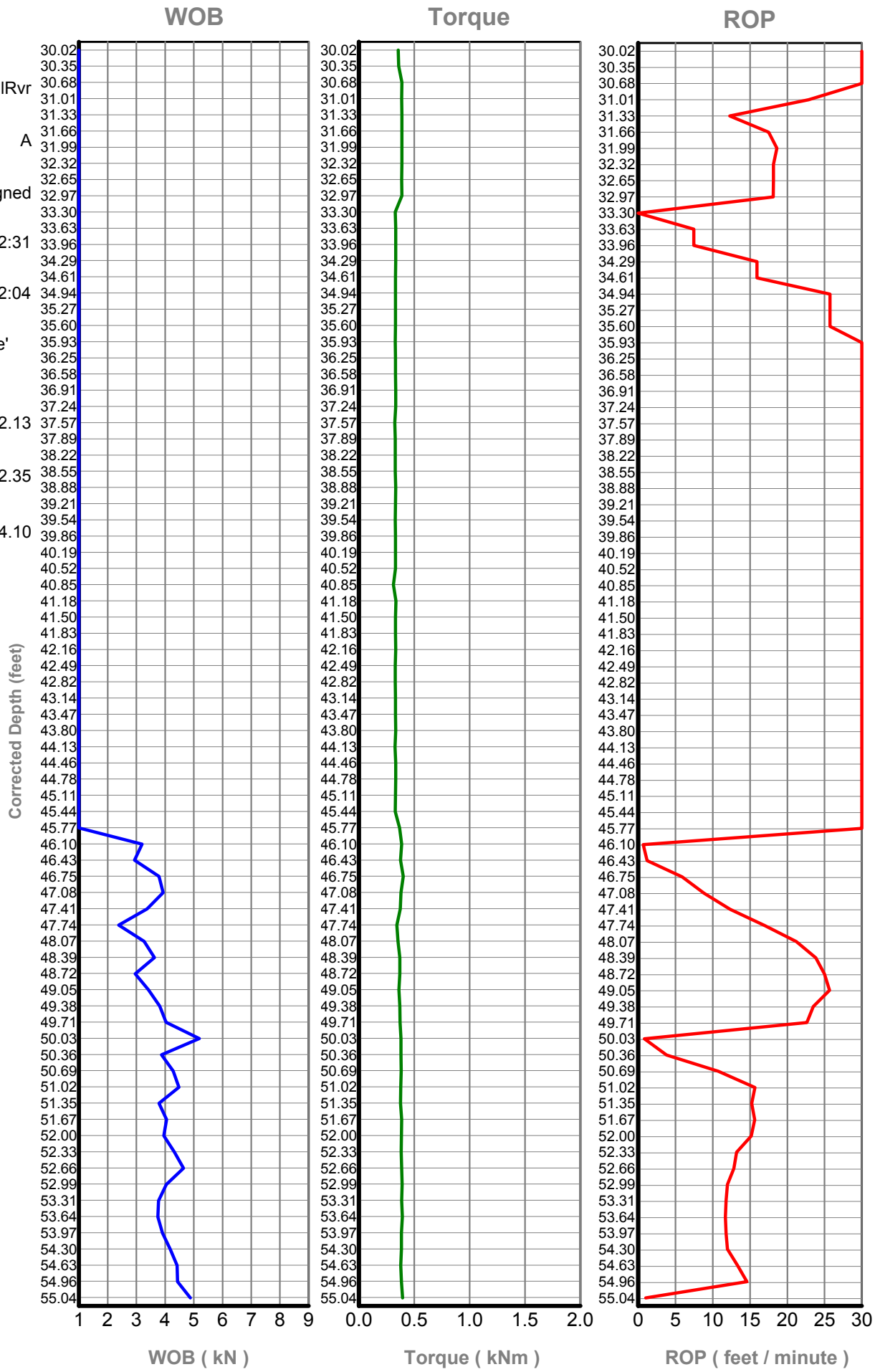
**End Date:**
4/25/2015 3:32:04

**Operator Note:**
'4.1 3.8 b Auto Complete'

**Northing:**
366,292.13

**Easting:**
251,052.35

**Tide (feet):**
4.10



## Hole: H438 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:13:26 | 33.79 | 30.19 | 751 | 0.24 | 0.34 | 41.1 |
| 4/25/2015 3:13:27 | 34.12 | 30.52 | 742 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:27 | 34.45 | 30.85 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:28 | 34.78 | 31.18 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:28 | 35.11 | 31.51 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:28 | 35.43 | 31.83 | 733 | 0.24 | 0.34 | 40.1 |
| 4/25/2015 3:13:29 | 35.76 | 32.16 | 734 | 0.24 | 0.34 | 40.2 |
| 4/25/2015 3:13:29 | 36.09 | 32.49 | 729 | 0.24 | 0.34 | 39.8 |
| 4/25/2015 3:13:30 | 36.42 | 32.82 | 723 | 0.24 | 0.34 | 39.5 |
| 4/25/2015 3:13:30 | 36.75 | 33.15 | 723 | 0.24 | 0.34 | 39.5 |
| 4/25/2015 3:13:31 | 37.07 | 33.47 | 730 | 0.24 | 0.34 | 39.9 |
| 4/25/2015 3:13:31 | 37.40 | 33.80 | 729 | 0.24 | 0.34 | 39.8 |
| 4/25/2015 3:13:32 | 37.73 | 34.13 | 731 | 0.24 | 0.34 | 40.0 |
| 4/25/2015 3:13:32 | 38.06 | 34.46 | 726 | 0.24 | 0.34 | 39.7 |
| 4/25/2015 3:13:33 | 38.39 | 34.79 | 744 | 0.24 | 0.33 | 40.7 |
| 4/25/2015 3:13:34 | 38.71 | 35.11 | 739 | 0.24 | 0.34 | 40.4 |
| 4/25/2015 3:13:34 | 39.04 | 35.44 | 747 | 0.24 | 0.34 | 40.8 |
| 4/25/2015 3:13:35 | 39.37 | 35.77 | 745 | 0.24 | 0.34 | 40.8 |
| 4/25/2015 3:13:35 | 39.70 | 36.10 | 745 | 0.24 | 0.34 | 40.8 |
| 4/25/2015 3:13:35 | 40.03 | 36.43 | 762 | 0.24 | 0.34 | 41.7 |
| 4/25/2015 3:13:36 | 40.35 | 36.75 | 749 | 0.24 | 0.34 | 41.0 |
| 4/25/2015 3:13:36 | 40.68 | 37.08 | 751 | 0.24 | 0.34 | 41.1 |
| 4/25/2015 3:13:37 | 41.01 | 37.41 | 743 | 0.24 | 0.34 | 40.7 |
| 4/25/2015 3:13:37 | 41.34 | 37.74 | 747 | 0.16 | 0.34 | 40.9 |
| 4/25/2015 3:13:38 | 41.67 | 38.07 | 743 | 0.24 | 0.33 | 40.6 |
| 4/25/2015 3:13:38 | 41.99 | 38.39 | 743 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:39 | 42.32 | 38.72 | 741 | 0.23 | 0.34 | 40.5 |
| 4/25/2015 3:13:39 | 42.65 | 39.05 | 746 | 0.24 | 0.34 | 40.8 |
| 4/25/2015 3:13:40 | 42.98 | 39.38 | 743 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:40 | 43.31 | 39.71 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:41 | 43.64 | 40.04 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:41 | 43.96 | 40.36 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:41 | 44.29 | 40.69 | 743 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:42 | 44.62 | 41.02 | 743 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:42 | 44.95 | 41.35 | 743 | 0.24 | 0.34 | 40.6 |
| 4/25/2015 3:13:43 | 45.28 | 41.68 | 738 | 0.24 | 0.34 | 40.4 |
| 4/25/2015 3:13:44 | 45.60 | 42.00 | 740 | 0.24 | 0.34 | 40.5 |
| 4/25/2015 3:13:44 | 45.93 | 42.33 | 731 | 0.24 | 0.34 | 40.0 |
| 4/25/2015 3:13:45 | 46.26 | 42.66 | 728 | 0.24 | 0.34 | 39.8 |
| 4/25/2015 3:13:45 | 46.59 | 42.99 | 728 | 0.24 | 0.34 | 39.8 |
| 4/25/2015 3:13:46 | 46.92 | 43.32 | 731 | 0.24 | 0.33 | 40.0 |
| 4/25/2015 3:13:46 | 47.24 | 43.64 | 731 | 0.24 | 0.34 | 40.0 |
| 4/25/2015 3:13:47 | 47.57 | 43.97 | 737 | 0.24 | 0.34 | 40.3 |
| 4/25/2015 3:13:47 | 47.90 | 44.30 | 735 | 0.24 | 0.34 | 40.2 |
| 4/25/2015 3:13:48 | 48.23 | 44.63 | 743 | 0.23 | 0.35 | 40.6 |
| 4/25/2015 3:13:48 | 48.56 | 44.96 | 710 | 0.22 | 0.37 | 38.8 |
| 4/25/2015 3:14:23 | 48.88 | 45.28 | 11 | 3.81 | 0.37 | 0.6 |
| 4/25/2015 3:14:26 | 49.21 | 45.61 | 194 | 5.29 | 0.40 | 10.6 |
| 4/25/2015 3:14:28 | 49.54 | 45.94 | 143 | 4.62 | 0.38 | 7.8 |
| 4/25/2015 3:14:30 | 49.87 | 46.27 | 171 | 4.05 | 0.38 | 9.4 |
| 4/25/2015 3:14:32 | 50.20 | 46.60 | 153 | 5.03 | 0.39 | 8.4 |
| 4/25/2015 3:14:34 | 50.53 | 46.93 | 154 | 4.85 | 0.39 | 8.4 |
| 4/25/2015 3:14:36 | 50.85 | 47.25 | 221 | 3.50 | 0.38 | 12.1 |
| 4/25/2015 3:14:38 | 51.18 | 47.58 | 153 | 3.35 | 0.38 | 8.4 |
| 4/25/2015 3:14:41 | 51.51 | 47.91 | 174 | 4.46 | 0.40 | 9.5 |
| 4/25/2015 3:14:47 | 51.84 | 48.24 | 72 | 6.31 | 0.41 | 3.9 |
| 4/25/2015 3:14:53 | 52.17 | 48.57 | 107 | 7.49 | 0.39 | 5.8 |
| 4/25/2015 3:14:56 | 52.49 | 48.89 | 114 | 3.85 | 0.38 | 6.2 |
| 4/25/2015 3:14:58 | 52.82 | 49.22 | 147 | 4.09 | 0.38 | 8.1 |
| 4/25/2015 3:15:03 | 53.15 | 49.55 | 17 | 4.09 | 0.40 | 1.0 |
| 4/25/2015 3:15:11 | 53.48 | 49.88 | 58 | 5.65 | 0.40 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:15:14 | 53.81 | 50.21 | 142 | 5.82 | 0.39 | 7.7 |
| 4/25/2015 | 3:15:17 | 54.13 | 50.53 | 124 | 4.06 | 0.40 | 6.8 |
| 4/25/2015 | 3:15:21 | 54.46 | 50.86 | 75 | 4.49 | 0.38 | 4.1 |
| 4/25/2015 | 3:15:25 | 54.79 | 51.19 | 87 | 4.04 | 0.38 | 4.7 |
| 4/25/2015 | 3:15:27 | 55.12 | 51.52 | 144 | 5.09 | 0.38 | 7.9 |
| 4/25/2015 | 3:15:30 | 55.45 | 51.85 | 133 | 4.72 | 0.40 | 7.3 |
| 4/25/2015 | 3:15:32 | 55.77 | 52.17 | 131 | 4.02 | 0.38 | 7.2 |
| 4/25/2015 | 3:16:33 | 56.10 | 52.50 | 53 | 4.66 | 0.38 | 2.9 |
| 4/25/2015 | 3:16:35 | 56.43 | 52.83 | 229 | 4.98 | 0.39 | 12.5 |
| 4/25/2015 | 3:16:36 | 56.76 | 53.16 | 231 | 4.49 | 0.38 | 12.6 |
| 4/25/2015 | 3:16:38 | 57.09 | 53.49 | 241 | 4.21 | 0.38 | 13.2 |
| 4/25/2015 | 3:16:39 | 57.41 | 53.81 | 269 | 4.20 | 0.38 | 14.7 |
| 4/25/2015 | 3:16:40 | 57.74 | 54.14 | 292 | 4.13 | 0.35 | 16.0 |
| 4/25/2015 | 3:16:41 | 58.07 | 54.47 | 325 | 3.69 | 0.37 | 17.8 |
| 4/25/2015 | 3:16:42 | 58.40 | 54.80 | 368 | 4.04 | 0.38 | 20.1 |
| 4/25/2015 | 3:16:43 | 58.57 | 54.97 | 303 | 3.96 | 0.39 | 16.6 |

## H438 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:09:25

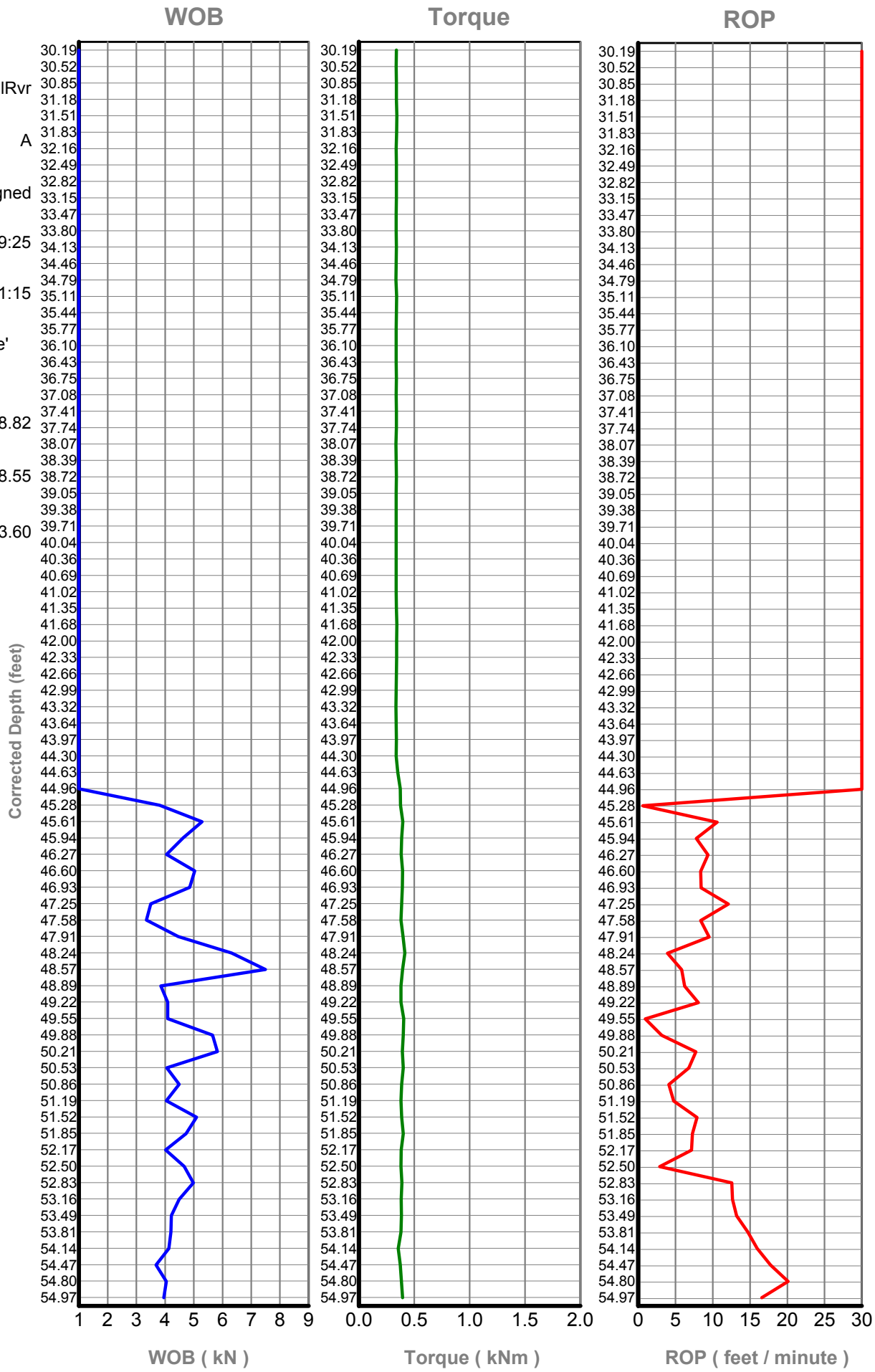
**End Date:**
4/25/2015 3:21:15

**Operator Note:**
'3.6 3.3 b Auto Complete'

**Northing:**
366,328.82

**Easting:**
251,098.55

**Tide (feet):**
3.60



## Hole: H439 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 3:09:40 | 33.79 | 30.19 | 541 | 2.01 | 0.17 | 29.6 |
| 4/25/2015 3:09:41 | 34.12 | 30.52 | 541 | 1.95 | 0.17 | 29.6 |
| 4/25/2015 3:09:41 | 34.45 | 30.85 | 542 | 1.95 | 0.17 | 29.7 |
| 4/25/2015 3:09:42 | 34.78 | 31.18 | 545 | 1.97 | 0.17 | 29.8 |
| 4/25/2015 3:09:43 | 35.11 | 31.51 | 545 | 1.98 | 0.17 | 29.8 |
| 4/25/2015 3:09:43 | 35.43 | 31.83 | 543 | 1.93 | 0.17 | 29.7 |
| 4/25/2015 3:09:44 | 35.76 | 32.16 | 543 | 1.96 | 0.17 | 29.7 |
| 4/25/2015 3:09:44 | 36.09 | 32.49 | 543 | 1.97 | 0.17 | 29.7 |
| 4/25/2015 3:09:45 | 36.42 | 32.82 | 540 | 1.98 | 0.17 | 29.5 |
| 4/25/2015 3:09:46 | 36.75 | 33.15 | 543 | 1.96 | 0.17 | 29.7 |
| 4/25/2015 3:09:46 | 37.07 | 33.47 | 551 | 1.96 | 0.17 | 30.2 |
| 4/25/2015 3:09:47 | 37.40 | 33.80 | 550 | 1.97 | 0.17 | 30.1 |
| 4/25/2015 3:09:48 | 37.73 | 34.13 | 552 | 1.98 | 0.17 | 30.2 |
| 4/25/2015 3:09:49 | 38.06 | 34.46 | 549 | 1.95 | 0.17 | 30.0 |
| 4/25/2015 3:09:49 | 38.39 | 34.79 | 549 | 1.99 | 0.17 | 30.0 |
| 4/25/2015 3:09:50 | 38.71 | 35.11 | 546 | 1.98 | 0.17 | 29.9 |
| 4/25/2015 3:09:51 | 39.04 | 35.44 | 546 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:09:51 | 39.37 | 35.77 | 546 | 1.96 | 0.17 | 29.9 |
| 4/25/2015 3:09:52 | 39.70 | 36.10 | 546 | 2.00 | 0.17 | 29.9 |
| 4/25/2015 3:09:52 | 40.03 | 36.43 | 549 | 1.97 | 0.17 | 30.0 |
| 4/25/2015 3:09:53 | 40.35 | 36.75 | 537 | 1.97 | 0.17 | 29.4 |
| 4/25/2015 3:09:54 | 40.68 | 37.08 | 543 | 1.98 | 0.17 | 29.7 |
| 4/25/2015 3:09:54 | 41.01 | 37.41 | 543 | 1.95 | 0.17 | 29.7 |
| 4/25/2015 3:09:55 | 41.34 | 37.74 | 546 | 1.98 | 0.18 | 29.8 |
| 4/25/2015 3:09:56 | 41.67 | 38.07 | 554 | 1.98 | 0.17 | 30.3 |
| 4/25/2015 3:09:56 | 41.99 | 38.39 | 549 | 1.97 | 0.17 | 30.0 |
| 4/25/2015 3:09:57 | 42.32 | 38.72 | 549 | 1.97 | 0.17 | 30.0 |
| 4/25/2015 3:09:58 | 42.65 | 39.05 | 546 | 1.96 | 0.17 | 29.9 |
| 4/25/2015 3:09:59 | 42.98 | 39.38 | 546 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:09:59 | 43.31 | 39.71 | 544 | 1.95 | 0.17 | 29.7 |
| 4/25/2015 3:10:00 | 43.64 | 40.04 | 544 | 1.97 | 0.17 | 29.7 |
| 4/25/2015 3:10:00 | 43.96 | 40.36 | 546 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:10:01 | 44.29 | 40.69 | 543 | 1.94 | 0.17 | 29.7 |
| 4/25/2015 3:10:02 | 44.62 | 41.02 | 546 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:10:02 | 44.95 | 41.35 | 540 | 1.96 | 0.17 | 29.5 |
| 4/25/2015 3:10:03 | 45.28 | 41.68 | 543 | 1.95 | 0.17 | 29.7 |
| 4/25/2015 3:10:04 | 45.60 | 42.00 | 543 | 1.97 | 0.17 | 29.7 |
| 4/25/2015 3:10:04 | 45.93 | 42.33 | 541 | 1.95 | 0.17 | 29.6 |
| 4/25/2015 3:10:05 | 46.26 | 42.66 | 543 | 1.96 | 0.17 | 29.7 |
| 4/25/2015 3:10:05 | 46.59 | 42.99 | 543 | 1.95 | 0.17 | 29.7 |
| 4/25/2015 3:10:06 | 46.92 | 43.32 | 540 | 1.97 | 0.17 | 29.5 |
| 4/25/2015 3:10:07 | 47.24 | 43.64 | 546 | 1.99 | 0.17 | 29.9 |
| 4/25/2015 3:10:07 | 47.57 | 43.97 | 546 | 1.98 | 0.17 | 29.9 |
| 4/25/2015 3:10:09 | 47.90 | 44.30 | 543 | 1.98 | 0.17 | 29.7 |
| 4/25/2015 3:10:09 | 48.23 | 44.63 | 546 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:10:10 | 48.56 | 44.96 | 546 | 1.98 | 0.17 | 29.9 |
| 4/25/2015 3:10:10 | 48.88 | 45.28 | 547 | 1.95 | 0.17 | 29.9 |
| 4/25/2015 3:10:11 | 49.21 | 45.61 | 538 | 1.99 | 0.17 | 29.4 |
| 4/25/2015 3:10:34 | 49.54 | 45.94 | 107 | 2.00 | 1.22 | 5.9 |
| 4/25/2015 3:10:42 | 49.87 | 46.27 | 108 | 2.00 | 1.17 | 5.9 |
| 4/25/2015 3:11:00 | 50.20 | 46.60 | 87 | 1.97 | 1.17 | 4.7 |
| 4/25/2015 3:11:01 | 50.53 | 46.93 | 188 | 1.94 | 1.12 | 10.3 |
| 4/25/2015 3:11:03 | 50.85 | 47.25 | 281 | 1.95 | 1.15 | 15.4 |
| 4/25/2015 3:11:13 | 51.18 | 47.58 | 76 | 1.96 | 1.10 | 4.2 |
| 4/25/2015 3:11:14 | 51.51 | 47.91 | 179 | 1.95 | 1.12 | 9.8 |
| 4/25/2015 3:11:15 | 51.84 | 48.24 | 286 | 1.99 | 1.19 | 15.6 |
| 4/25/2015 3:11:47 | 52.17 | 48.57 | 0 | 1.95 | 1.44 | 0.0 |
| 4/25/2015 3:11:49 | 52.49 | 48.89 | 162 | 1.95 | 1.39 | 8.8 |
| 4/25/2015 3:11:50 | 52.82 | 49.22 | 191 | 1.98 | 1.20 | 10.4 |
| 4/25/2015 3:11:52 | 53.15 | 49.55 | 267 | 1.96 | 1.26 | 14.6 |
| 4/25/2015 3:12:12 | 53.48 | 49.88 | 0 | 1.97 | 1.23 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 3:12:37 | 53.81 | 50.21 | 95 | 2.00 | 1.15 | 5.2 |
| 4/25/2015 | 3:12:38 | 54.13 | 50.53 | 178 | 1.95 | 1.05 | 9.8 |
| 4/25/2015 | 3:12:40 | 54.46 | 50.86 | 239 | 1.98 | 1.12 | 13.1 |
| 4/25/2015 | 3:12:41 | 54.79 | 51.19 | 236 | 1.97 | 1.14 | 12.9 |
| 4/25/2015 | 3:12:42 | 55.12 | 51.52 | 269 | 1.96 | 1.06 | 14.7 |
| 4/25/2015 | 3:12:59 | 55.45 | 51.85 | 87 | 1.97 | 1.18 | 4.8 |
| 4/25/2015 | 3:13:00 | 55.77 | 52.17 | 191 | 1.95 | 1.14 | 10.5 |
| 4/25/2015 | 3:13:01 | 56.10 | 52.50 | 266 | 1.97 | 1.26 | 14.5 |
| 4/25/2015 | 3:13:03 | 56.43 | 52.83 | 254 | 1.98 | 1.55 | 13.9 |
| 4/25/2015 | 3:13:04 | 56.76 | 53.16 | 222 | 1.96 | 1.19 | 12.1 |
| 4/25/2015 | 3:13:06 | 57.09 | 53.49 | 208 | 1.98 | 1.10 | 11.4 |
| 4/25/2015 | 3:13:08 | 57.41 | 53.81 | 229 | 1.97 | 1.18 | 12.5 |
| 4/25/2015 | 3:13:09 | 57.74 | 54.14 | 237 | 1.98 | 1.07 | 13.0 |
| 4/25/2015 | 3:13:10 | 58.07 | 54.47 | 264 | 1.95 | 1.33 | 14.4 |
| 4/25/2015 | 3:13:11 | 58.40 | 54.80 | 269 | 1.99 | 1.25 | 14.7 |
| 4/25/2015 | 3:13:12 | 58.53 | 54.93 | 269 | 1.99 | 1.19 | 14.7 |

## H439 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 3:07:42

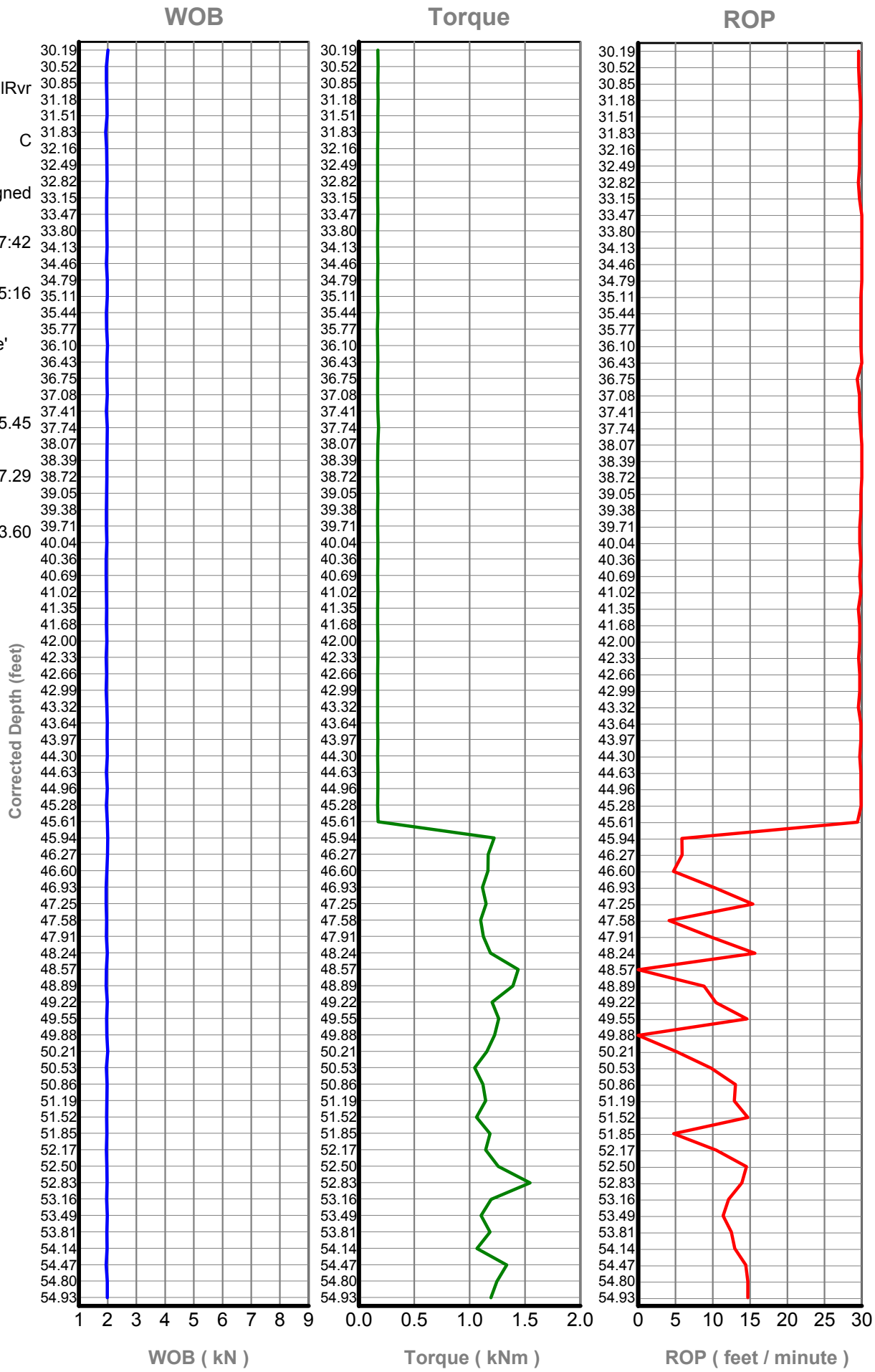
**End Date:**
4/25/2015 3:15:16

**Operator Note:**
'3.6 3.3 c Auto Complete'

**Northing:**
366,375.45

**Easting:**
251,157.29

**Tide (feet):**
3.60



## Hole: H44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:55:49 | 36.09 | 30.19 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/27/2015 8:55:49 | 36.42 | 30.52 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:50 | 36.75 | 30.85 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:50 | 37.07 | 31.17 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:50 | 37.40 | 31.50 | 997 | 0.31 | 0.34 | 54.5 |
| 4/27/2015 8:55:51 | 37.73 | 31.83 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:51 | 38.06 | 32.16 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:51 | 38.39 | 32.49 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:52 | 38.71 | 32.81 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:53 | 39.04 | 33.14 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:52 | 39.37 | 33.47 | 994 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 8:55:53 | 39.70 | 33.80 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/27/2015 8:55:54 | 40.03 | 34.13 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:54 | 40.35 | 34.45 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:54 | 40.68 | 34.78 | 1,000 | 0.32 | 0.32 | 54.7 |
| 4/27/2015 8:55:55 | 41.01 | 35.11 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:55 | 41.34 | 35.44 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:55 | 41.67 | 35.77 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:56 | 41.99 | 36.09 | 994 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 8:55:56 | 42.32 | 36.42 | 994 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 8:55:56 | 42.65 | 36.75 | 994 | 0.31 | 0.32 | 54.4 |
| 4/27/2015 8:55:57 | 42.98 | 37.08 | 988 | 0.31 | 0.32 | 54.0 |
| 4/27/2015 8:55:57 | 43.31 | 37.41 | 988 | 0.31 | 0.32 | 54.0 |
| 4/27/2015 8:55:57 | 43.64 | 37.74 | 1,003 | 0.32 | 0.32 | 54.9 |
| 4/27/2015 8:55:58 | 43.96 | 38.06 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:58 | 44.29 | 38.39 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/27/2015 8:55:58 | 44.62 | 38.72 | 1,000 | 0.35 | 0.32 | 54.7 |
| 4/27/2015 8:55:59 | 44.95 | 39.05 | 997 | 0.31 | 0.32 | 54.5 |
| 4/27/2015 8:55:59 | 45.28 | 39.38 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/27/2015 8:56:00 | 45.60 | 39.70 | 1,003 | 0.31 | 0.32 | 54.9 |
| 4/27/2015 8:56:00 | 45.93 | 40.03 | 992 | 0.31 | 0.32 | 54.2 |
| 4/27/2015 8:56:00 | 46.26 | 40.36 | 983 | 0.31 | 0.32 | 53.8 |
| 4/27/2015 8:56:01 | 46.59 | 40.69 | 983 | 0.31 | 0.32 | 53.8 |
| 4/27/2015 8:56:01 | 46.92 | 41.02 | 983 | 0.31 | 0.32 | 53.8 |
| 4/27/2015 8:56:01 | 47.24 | 41.34 | 992 | 0.31 | 0.31 | 54.2 |
| 4/27/2015 8:56:02 | 47.57 | 41.67 | 992 | 0.31 | 0.31 | 54.2 |
| 4/27/2015 8:56:02 | 47.90 | 42.00 | 989 | 0.31 | 0.32 | 54.1 |
| 4/27/2015 8:56:02 | 48.23 | 42.33 | 989 | 0.31 | 0.32 | 54.1 |
| 4/27/2015 8:56:03 | 48.56 | 42.66 | 992 | 0.31 | 0.32 | 54.2 |
| 4/27/2015 8:56:04 | 48.88 | 42.98 | 992 | 0.31 | 0.32 | 54.2 |
| 4/27/2015 8:56:04 | 49.21 | 43.31 | 986 | 0.31 | 0.32 | 53.9 |
| 4/27/2015 8:56:04 | 49.54 | 43.64 | 980 | 0.31 | 0.32 | 53.6 |
| 4/27/2015 8:56:05 | 49.87 | 43.97 | 980 | 0.31 | 0.32 | 53.6 |
| 4/27/2015 8:56:05 | 50.20 | 44.30 | 980 | 0.31 | 0.32 | 53.6 |
| 4/27/2015 8:56:05 | 50.53 | 44.63 | 972 | 0.30 | 0.33 | 53.1 |
| 4/27/2015 8:56:06 | 50.85 | 44.95 | 972 | 0.30 | 0.33 | 53.1 |
| 4/27/2015 8:56:11 | 51.18 | 45.28 | 0 | 3.62 | 0.36 | 0.0 |
| 4/27/2015 8:56:13 | 51.51 | 45.61 | 154 | 6.63 | 0.40 | 8.4 |
| 4/27/2015 8:56:16 | 51.84 | 45.94 | 93 | 3.34 | 0.36 | 5.1 |
| 4/27/2015 8:56:19 | 52.17 | 46.27 | 0 | 3.81 | 0.36 | 0.0 |
| 4/27/2015 8:56:20 | 52.49 | 46.59 | 200 | 3.14 | 0.35 | 10.9 |
| 4/27/2015 8:56:24 | 52.82 | 46.92 | 0 | 2.39 | 0.33 | 0.0 |
| 4/27/2015 8:56:25 | 53.15 | 47.25 | 0 | 2.53 | 0.34 | 0.0 |
| 4/27/2015 8:56:25 | 53.48 | 47.58 | 109 | 2.55 | 0.34 | 6.0 |
| 4/27/2015 8:56:26 | 53.81 | 47.91 | 244 | 2.52 | 0.34 | 13.4 |
| 4/27/2015 8:56:26 | 54.13 | 48.23 | 382 | 2.76 | 0.35 | 20.9 |
| 4/27/2015 8:56:27 | 54.46 | 48.56 | 511 | 2.70 | 0.36 | 27.9 |
| 4/27/2015 8:56:28 | 54.79 | 48.89 | 616 | 2.84 | 0.36 | 33.7 |
| 4/27/2015 8:56:28 | 55.12 | 49.22 | 581 | 4.06 | 0.37 | 31.8 |
| 4/27/2015 8:56:31 | 55.45 | 49.55 | 181 | 7.39 | 0.38 | 9.9 |
| 4/27/2015 8:56:32 | 55.77 | 49.87 | 123 | 3.30 | 0.37 | 6.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:56:33 | 56.10 | 50.20 | 260 | 2.82 | 0.36 | 14.2 |
| 4/27/2015 | 8:56:33 | 56.43 | 50.53 | 366 | 2.65 | 0.37 | 20.0 |
| 4/27/2015 | 8:56:37 | 56.76 | 50.86 | 35 | 5.55 | 0.40 | 1.9 |
| 4/27/2015 | 8:56:57 | 57.09 | 51.19 | 54 | 3.52 | 0.38 | 3.0 |
| 4/27/2015 | 8:56:58 | 57.41 | 51.51 | 120 | 2.83 | 0.36 | 6.6 |
| 4/27/2015 | 8:56:59 | 57.74 | 51.84 | 329 | 2.57 | 0.36 | 18.0 |
| 4/27/2015 | 8:56:59 | 58.07 | 52.17 | 429 | 2.52 | 0.36 | 23.4 |
| 4/27/2015 | 8:57:00 | 58.40 | 52.50 | 480 | 2.48 | 0.36 | 26.3 |
| 4/27/2015 | 8:57:01 | 58.73 | 52.83 | 514 | 2.46 | 0.36 | 28.1 |
| 4/27/2015 | 8:57:03 | 59.06 | 53.16 | 225 | 2.62 | 0.36 | 12.3 |
| 4/27/2015 | 8:57:03 | 59.38 | 53.48 | 235 | 2.93 | 0.38 | 12.8 |
| 4/27/2015 | 8:57:05 | 59.71 | 53.81 | 187 | 2.63 | 0.37 | 10.2 |
| 4/27/2015 | 8:57:06 | 60.04 | 54.14 | 269 | 2.27 | 0.33 | 14.7 |
| 4/27/2015 | 8:57:07 | 60.37 | 54.47 | 260 | 2.71 | 0.36 | 14.2 |
| 4/27/2015 | 8:57:08 | 60.70 | 54.80 | 297 | 2.66 | 0.36 | 16.2 |
| 4/27/2015 | 8:57:10 | 60.99 | 55.09 | 189 | 2.97 | 0.39 | 10.3 |

## H44 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:53:53

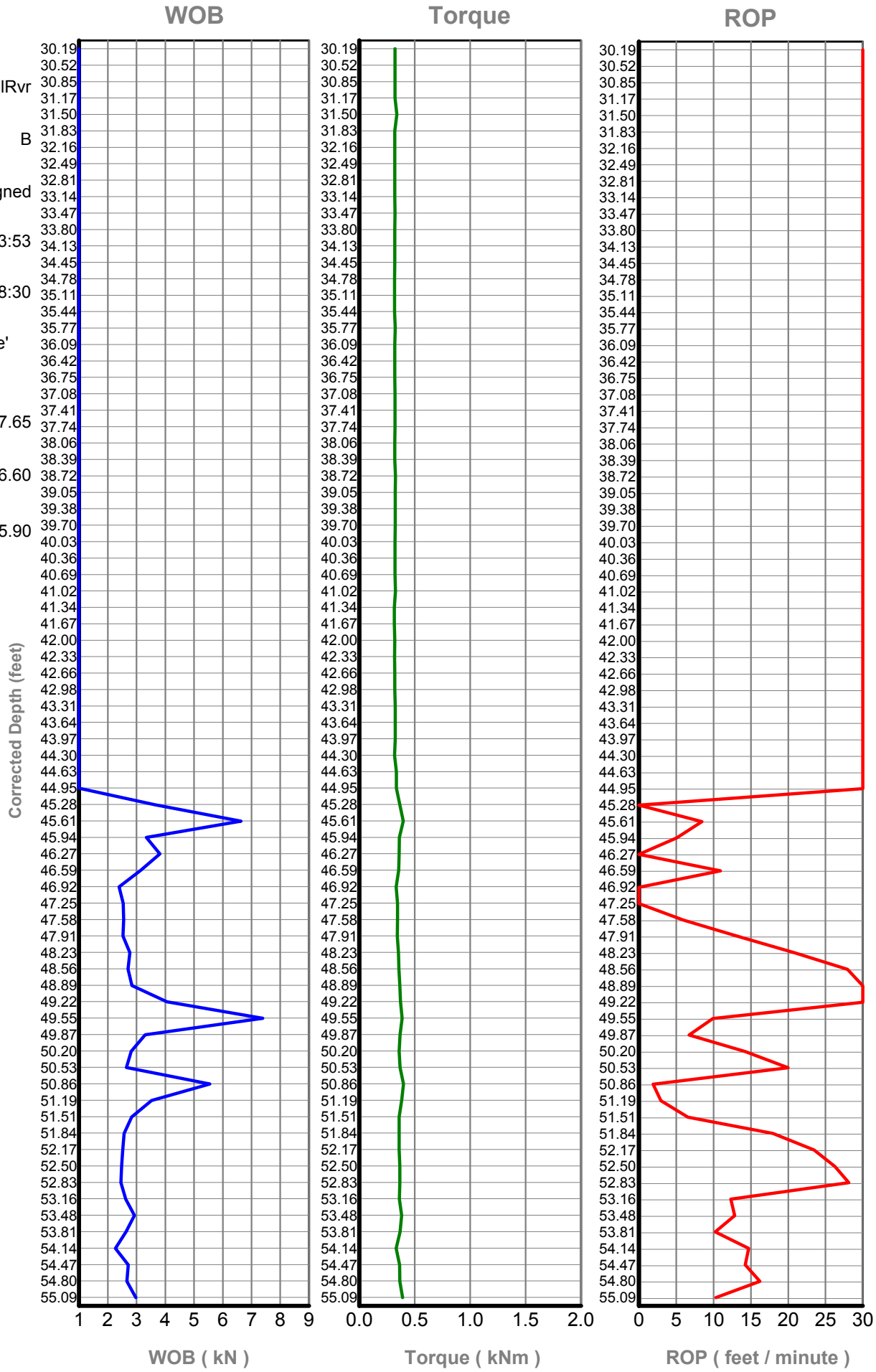
**End Date:**
4/27/2015 8:58:30

**Operator Note:**
'5.9 6.0 b Auto Complete'

**Northing:**
365,587.65

**Easting:**
249,106.60

**Tide (feet):**
5.90



## Hole: H440 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 2:15:36 | 32.15 | 30.15 | 719 | 0.22 | 0.34 | 39.3 |
| 4/25/2015 2:15:37 | 32.48 | 30.48 | 743 | 0.22 | 0.34 | 40.6 |
| 4/25/2015 2:15:37 | 32.81 | 30.81 | 720 | 0.22 | 0.34 | 39.4 |
| 4/25/2015 2:15:38 | 33.14 | 31.14 | 720 | 0.22 | 0.34 | 39.4 |
| 4/25/2015 2:15:38 | 33.46 | 31.46 | 720 | 0.22 | 0.34 | 39.4 |
| 4/25/2015 2:15:38 | 33.79 | 31.79 | 729 | 0.22 | 0.35 | 39.9 |
| 4/25/2015 2:15:39 | 34.12 | 32.12 | 729 | 0.22 | 0.34 | 39.9 |
| 4/25/2015 2:15:39 | 34.45 | 32.45 | 741 | 0.22 | 0.34 | 40.5 |
| 4/25/2015 2:15:40 | 34.78 | 32.78 | 747 | 0.24 | 0.34 | 40.8 |
| 4/25/2015 2:15:40 | 35.11 | 33.11 | 739 | 0.22 | 0.34 | 40.4 |
| 4/25/2015 2:15:41 | 35.43 | 33.43 | 743 | 0.22 | 0.34 | 40.6 |
| 4/25/2015 2:15:41 | 35.76 | 33.76 | 743 | 0.22 | 0.34 | 40.6 |
| 4/25/2015 2:15:42 | 36.09 | 34.09 | 748 | 0.22 | 0.34 | 40.9 |
| 4/25/2015 2:15:42 | 36.42 | 34.42 | 737 | 0.22 | 0.34 | 40.3 |
| 4/25/2015 2:15:43 | 36.75 | 34.75 | 733 | 0.22 | 0.34 | 40.1 |
| 4/25/2015 2:15:43 | 37.07 | 35.07 | 725 | 0.22 | 0.34 | 39.7 |
| 4/25/2015 2:15:44 | 37.40 | 35.40 | 737 | 0.22 | 0.34 | 40.3 |
| 4/25/2015 2:15:44 | 37.73 | 35.73 | 714 | 0.22 | 0.34 | 39.0 |
| 4/25/2015 2:15:45 | 38.06 | 36.06 | 714 | 0.22 | 0.34 | 39.0 |
| 4/25/2015 2:15:45 | 38.39 | 36.39 | 714 | 0.21 | 0.34 | 39.0 |
| 4/25/2015 2:15:45 | 38.71 | 36.71 | 730 | 0.22 | 0.34 | 39.9 |
| 4/25/2015 2:15:46 | 39.04 | 37.04 | 737 | 0.22 | 0.34 | 40.3 |
| 4/25/2015 2:15:47 | 39.37 | 37.37 | 719 | 0.22 | 0.34 | 39.3 |
| 4/25/2015 2:15:47 | 39.70 | 37.70 | 728 | 0.21 | 0.34 | 39.8 |
| 4/25/2015 2:15:48 | 40.03 | 38.03 | 728 | 0.22 | 0.34 | 39.8 |
| 4/25/2015 2:15:48 | 40.35 | 38.35 | 755 | 0.22 | 0.34 | 41.3 |
| 4/25/2015 2:15:49 | 40.68 | 38.68 | 747 | 0.22 | 0.35 | 40.8 |
| 4/25/2015 2:15:49 | 41.01 | 39.01 | 741 | 0.22 | 0.34 | 40.5 |
| 4/25/2015 2:15:50 | 41.34 | 39.34 | 749 | 0.22 | 0.34 | 40.9 |
| 4/25/2015 2:15:50 | 41.67 | 39.67 | 747 | 0.22 | 0.34 | 40.8 |
| 4/25/2015 2:15:51 | 41.99 | 39.99 | 728 | 0.22 | 0.34 | 39.8 |
| 4/25/2015 2:15:51 | 42.32 | 40.32 | 728 | 0.22 | 0.34 | 39.8 |
| 4/25/2015 2:15:51 | 42.65 | 40.65 | 718 | 0.22 | 0.34 | 39.3 |
| 4/25/2015 2:15:52 | 42.98 | 40.98 | 730 | 0.22 | 0.34 | 39.9 |
| 4/25/2015 2:15:52 | 43.31 | 41.31 | 740 | 0.22 | 0.34 | 40.5 |
| 4/25/2015 2:15:53 | 43.64 | 41.64 | 740 | 0.21 | 0.34 | 40.5 |
| 4/25/2015 2:15:53 | 43.96 | 41.96 | 739 | 0.22 | 0.34 | 40.4 |
| 4/25/2015 2:15:54 | 44.29 | 42.29 | 756 | 0.22 | 0.34 | 41.3 |
| 4/25/2015 2:15:54 | 44.62 | 42.62 | 762 | 0.21 | 0.35 | 41.7 |
| 4/25/2015 2:15:55 | 44.95 | 42.95 | 755 | 0.22 | 0.34 | 41.3 |
| 4/25/2015 2:15:55 | 45.28 | 43.28 | 748 | 0.22 | 0.34 | 40.9 |
| 4/25/2015 2:15:56 | 45.60 | 43.60 | 748 | 0.21 | 0.34 | 40.9 |
| 4/25/2015 2:15:57 | 45.93 | 43.93 | 748 | 0.21 | 0.34 | 40.9 |
| 4/25/2015 2:15:56 | 46.26 | 44.26 | 743 | 0.22 | 0.35 | 40.6 |
| 4/25/2015 2:15:57 | 46.59 | 44.59 | 743 | 0.22 | 0.34 | 40.6 |
| 4/25/2015 2:15:58 | 46.92 | 44.92 | 741 | 0.22 | 0.34 | 40.5 |
| 4/25/2015 2:15:58 | 47.24 | 45.24 | 738 | 0.22 | 0.32 | 40.4 |
| 4/25/2015 2:15:59 | 47.57 | 45.57 | 746 | 0.22 | 0.34 | 40.8 |
| 4/25/2015 2:15:59 | 47.90 | 45.90 | 741 | 0.22 | 0.34 | 40.5 |
| 4/25/2015 2:16:00 | 48.23 | 46.23 | 741 | 0.21 | 0.36 | 40.5 |
| 4/25/2015 2:16:07 | 48.56 | 46.56 | 0 | 0.18 | 0.60 | 0.0 |
| 4/25/2015 2:16:40 | 48.88 | 46.88 | 0 | 3.58 | 0.37 | 0.0 |
| 4/25/2015 2:16:42 | 49.21 | 47.21 | 125 | 4.75 | 0.38 | 6.8 |
| 4/25/2015 2:16:46 | 49.54 | 47.54 | 61 | 4.16 | 0.40 | 3.3 |
| 4/25/2015 2:16:51 | 49.87 | 47.87 | 75 | 4.41 | 0.38 | 4.1 |
| 4/25/2015 2:16:53 | 50.20 | 48.20 | 178 | 3.81 | 0.40 | 9.7 |
| 4/25/2015 2:16:55 | 50.53 | 48.53 | 158 | 3.84 | 0.40 | 8.6 |
| 4/25/2015 2:16:59 | 50.85 | 48.85 | 104 | 7.65 | 0.39 | 5.7 |
| 4/25/2015 2:17:09 | 51.18 | 49.18 | 0 | 4.17 | 0.39 | 0.0 |
| 4/25/2015 2:17:24 | 51.51 | 49.51 | 0 | 3.79 | 0.38 | 0.0 |
| 4/25/2015 2:17:25 | 51.84 | 49.84 | 113 | 4.09 | 0.37 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 2:17:46 | 52.17 | 50.17 | 107 | 7.87 | 0.40 | 5.8 |
| 4/25/2015 | 2:17:58 | 52.49 | 50.49 | 77 | 4.28 | 0.39 | 4.2 |
| 4/25/2015 | 2:18:00 | 52.82 | 50.82 | 123 | 3.94 | 0.37 | 6.7 |
| 4/25/2015 | 2:18:01 | 53.15 | 51.15 | 213 | 3.55 | 0.38 | 11.6 |
| 4/25/2015 | 2:18:03 | 53.48 | 51.48 | 303 | 3.55 | 0.37 | 16.6 |
| 4/25/2015 | 2:18:03 | 53.81 | 51.81 | 366 | 3.47 | 0.37 | 20.0 |
| 4/25/2015 | 2:18:04 | 54.13 | 52.13 | 374 | 3.70 | 0.38 | 20.4 |
| 4/25/2015 | 2:18:05 | 54.46 | 52.46 | 376 | 3.67 | 0.37 | 20.5 |
| 4/25/2015 | 2:18:06 | 54.79 | 52.79 | 355 | 5.14 | 0.37 | 19.4 |
| 4/25/2015 | 2:18:33 | 55.12 | 53.12 | 47 | 3.69 | 0.37 | 2.6 |
| 4/25/2015 | 2:18:35 | 55.45 | 53.45 | 194 | 3.73 | 0.37 | 10.6 |
| 4/25/2015 | 2:18:36 | 55.77 | 53.77 | 249 | 5.95 | 0.37 | 13.6 |
| 4/25/2015 | 2:18:37 | 56.10 | 54.10 | 339 | 3.97 | 0.38 | 18.5 |
| 4/25/2015 | 2:18:38 | 56.43 | 54.43 | 315 | 3.49 | 0.38 | 17.2 |
| 4/25/2015 | 2:18:39 | 56.76 | 54.76 | 305 | 4.52 | 0.39 | 16.7 |
| 4/25/2015 | 2:18:41 | 57.09 | 55.09 | 263 | 3.83 | 0.38 | 14.4 |
| 4/25/2015 | 2:18:50 | 57.15 | 55.15 | 0 | 4.95 | 0.38 | 0.0 |

## H440 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 2:11:56

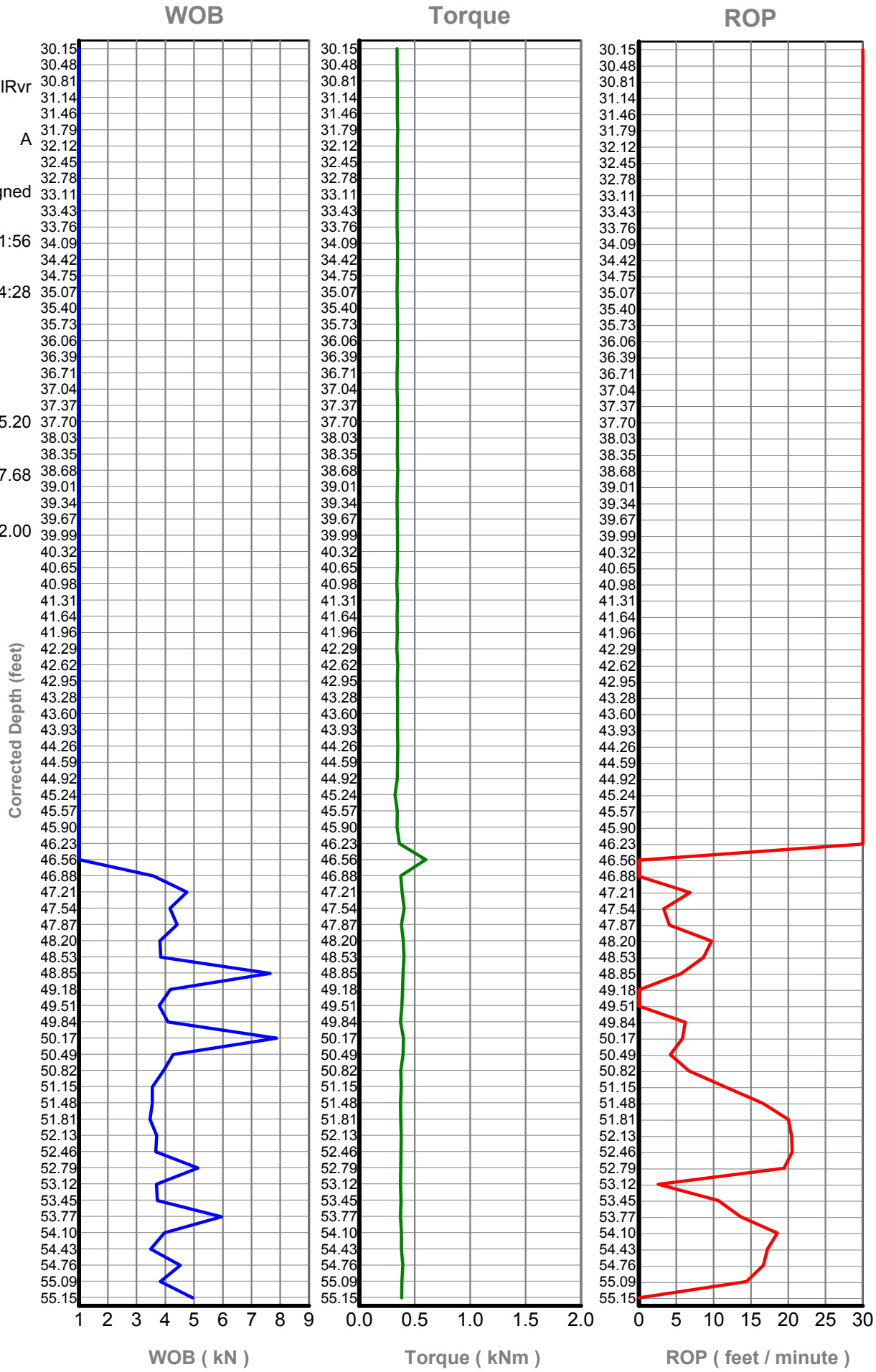
**End Date:**
4/25/2015 2:24:28

**Operator Note:**
'2 2 b Auto Complete'

**Northing:**
366,435.20

**Easting:**
251,227.68

**Tide (feet):**
2.00



## Hole: H441 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 2:29:22 | 32.48 | 30.28 | 753 | 1.15 | 0.34 | 41.2 |
| 4/25/2015 2:29:22 | 32.81 | 30.61 | 767 | 1.15 | 0.34 | 41.9 |
| 4/25/2015 2:29:23 | 33.14 | 30.94 | 762 | 1.15 | 0.34 | 41.7 |
| 4/25/2015 2:29:23 | 33.46 | 31.26 | 761 | 1.15 | 0.34 | 41.6 |
| 4/25/2015 2:29:24 | 33.79 | 31.59 | 754 | 1.15 | 0.34 | 41.2 |
| 4/25/2015 2:29:24 | 34.12 | 31.92 | 754 | 1.13 | 0.34 | 41.2 |
| 4/25/2015 2:29:25 | 34.45 | 32.25 | 754 | 1.17 | 0.34 | 41.2 |
| 4/25/2015 2:29:25 | 34.78 | 32.58 | 741 | 1.18 | 0.34 | 40.5 |
| 4/25/2015 2:29:26 | 35.11 | 32.91 | 744 | 1.16 | 0.34 | 40.7 |
| 4/25/2015 2:29:26 | 35.43 | 33.23 | 747 | 1.20 | 0.34 | 40.8 |
| 4/25/2015 2:29:27 | 35.76 | 33.56 | 750 | 1.11 | 0.34 | 41.0 |
| 4/25/2015 2:29:27 | 36.09 | 33.89 | 740 | 1.13 | 0.34 | 40.5 |
| 4/25/2015 2:29:28 | 36.42 | 34.22 | 740 | 1.13 | 0.34 | 40.5 |
| 4/25/2015 2:29:28 | 36.75 | 34.55 | 740 | 1.13 | 0.34 | 40.5 |
| 4/25/2015 2:29:28 | 37.07 | 34.87 | 745 | 1.14 | 0.34 | 40.7 |
| 4/25/2015 2:29:29 | 37.40 | 35.20 | 740 | 1.13 | 0.34 | 40.5 |
| 4/25/2015 2:29:30 | 37.73 | 35.53 | 750 | 1.14 | 0.28 | 41.0 |
| 4/25/2015 2:29:30 | 38.06 | 35.86 | 744 | 1.13 | 0.34 | 40.7 |
| 4/25/2015 2:29:31 | 38.39 | 36.19 | 752 | 1.13 | 0.34 | 41.1 |
| 4/25/2015 2:29:31 | 38.71 | 36.51 | 752 | 1.14 | 0.34 | 41.1 |
| 4/25/2015 2:29:32 | 39.04 | 36.84 | 752 | 1.15 | 0.34 | 41.1 |
| 4/25/2015 2:29:32 | 39.37 | 37.17 | 745 | 1.15 | 0.34 | 40.7 |
| 4/25/2015 2:29:33 | 39.70 | 37.50 | 759 | 1.14 | 0.33 | 41.5 |
| 4/25/2015 2:29:33 | 40.03 | 37.83 | 759 | 1.14 | 0.33 | 41.5 |
| 4/25/2015 2:29:33 | 40.35 | 38.15 | 752 | 1.13 | 0.34 | 41.1 |
| 4/25/2015 2:29:34 | 40.68 | 38.48 | 749 | 1.13 | 0.34 | 40.9 |
| 4/25/2015 2:29:34 | 41.01 | 38.81 | 746 | 1.12 | 0.34 | 40.8 |
| 4/25/2015 2:29:35 | 41.34 | 39.14 | 752 | 1.13 | 0.34 | 41.1 |
| 4/25/2015 2:29:35 | 41.67 | 39.47 | 749 | 1.13 | 0.34 | 40.9 |
| 4/25/2015 2:29:36 | 41.99 | 39.79 | 749 | 1.14 | 0.34 | 40.9 |
| 4/25/2015 2:29:36 | 42.32 | 40.12 | 745 | 1.14 | 0.34 | 40.8 |
| 4/25/2015 2:29:37 | 42.65 | 40.45 | 761 | 1.13 | 0.34 | 41.6 |
| 4/25/2015 2:29:37 | 42.98 | 40.78 | 755 | 1.14 | 0.34 | 41.3 |
| 4/25/2015 2:29:38 | 43.31 | 41.11 | 735 | 1.13 | 0.34 | 40.2 |
| 4/25/2015 2:29:38 | 43.64 | 41.44 | 735 | 1.08 | 0.34 | 40.2 |
| 4/25/2015 2:29:39 | 43.96 | 41.76 | 735 | 1.08 | 0.34 | 40.2 |
| 4/25/2015 2:29:39 | 44.29 | 42.09 | 748 | 1.12 | 0.34 | 40.9 |
| 4/25/2015 2:29:40 | 44.62 | 42.42 | 738 | 1.13 | 0.34 | 40.3 |
| 4/25/2015 2:29:40 | 44.95 | 42.75 | 738 | 1.14 | 0.34 | 40.3 |
| 4/25/2015 2:29:41 | 45.28 | 43.08 | 728 | 1.13 | 0.34 | 39.8 |
| 4/25/2015 2:29:41 | 45.60 | 43.40 | 728 | 1.15 | 0.34 | 39.8 |
| 4/25/2015 2:29:42 | 45.93 | 43.73 | 733 | 1.14 | 0.34 | 40.1 |
| 4/25/2015 2:29:42 | 46.26 | 44.06 | 750 | 1.13 | 0.34 | 41.0 |
| 4/25/2015 2:29:43 | 46.59 | 44.39 | 741 | 1.13 | 0.34 | 40.5 |
| 4/25/2015 2:29:43 | 46.92 | 44.72 | 749 | 1.13 | 0.34 | 41.0 |
| 4/25/2015 2:29:44 | 47.24 | 45.04 | 756 | 1.67 | 0.36 | 41.3 |
| 4/25/2015 2:29:44 | 47.57 | 45.37 | 695 | 2.02 | 0.38 | 38.0 |
| 4/25/2015 2:30:43 | 47.90 | 45.70 | 62 | 5.74 | 0.44 | 3.4 |
| 4/25/2015 2:30:47 | 48.23 | 46.03 | 104 | 5.58 | 0.40 | 5.7 |
| 4/25/2015 2:30:57 | 48.56 | 46.36 | 32 | 3.38 | 0.37 | 1.8 |
| 4/25/2015 2:30:58 | 48.88 | 46.68 | 167 | 4.45 | 0.40 | 9.1 |
| 4/25/2015 2:30:59 | 49.21 | 47.01 | 223 | 4.20 | 0.37 | 12.2 |
| 4/25/2015 2:31:09 | 49.54 | 47.34 | 73 | 3.67 | 0.40 | 4.0 |
| 4/25/2015 2:31:27 | 49.87 | 47.67 | 10 | 3.81 | 0.39 | 0.6 |
| 4/25/2015 2:31:31 | 50.20 | 48.00 | 107 | 5.32 | 0.38 | 5.8 |
| 4/25/2015 2:31:33 | 50.53 | 48.33 | 150 | 2.96 | 0.37 | 8.2 |
| 4/25/2015 2:31:34 | 50.85 | 48.65 | 199 | 2.07 | 0.34 | 10.9 |
| 4/25/2015 2:31:35 | 51.18 | 48.98 | 287 | 2.44 | 0.35 | 15.7 |
| 4/25/2015 2:32:05 | 51.51 | 49.31 | 95 | 5.52 | 0.40 | 5.2 |
| 4/25/2015 2:32:27 | 51.84 | 49.64 | 49 | 8.08 | 0.38 | 2.7 |
| 4/25/2015 2:32:31 | 52.17 | 49.97 | 64 | 4.20 | 0.38 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 2:33:02 | 52.49 | 50.29 | 3 | 3.69 | 0.36 | 0.2 |
| 4/25/2015 | 2:33:05 | 52.82 | 50.62 | 94 | 3.16 | 0.37 | 5.2 |
| 4/25/2015 | 2:33:11 | 53.15 | 50.95 | 54 | 3.96 | 0.41 | 3.0 |
| 4/25/2015 | 2:33:13 | 53.48 | 51.28 | 126 | 3.18 | 0.36 | 6.9 |
| 4/25/2015 | 2:33:14 | 53.81 | 51.61 | 200 | 4.81 | 0.36 | 10.9 |
| 4/25/2015 | 2:33:15 | 54.13 | 51.93 | 353 | 3.86 | 0.38 | 19.3 |
| 4/25/2015 | 2:33:17 | 54.46 | 52.26 | 213 | 4.80 | 0.39 | 11.7 |
| 4/25/2015 | 2:33:31 | 54.79 | 52.59 | 35 | 3.56 | 0.38 | 1.9 |
| 4/25/2015 | 2:33:34 | 55.12 | 52.92 | 95 | 3.47 | 0.39 | 5.2 |
| 4/25/2015 | 2:33:37 | 55.45 | 53.25 | 97 | 3.24 | 0.39 | 5.3 |
| 4/25/2015 | 2:33:44 | 55.77 | 53.57 | 43 | 3.38 | 0.39 | 2.4 |
| 4/25/2015 | 2:33:50 | 56.10 | 53.90 | 75 | 3.73 | 0.39 | 4.1 |
| 4/25/2015 | 2:33:55 | 56.43 | 54.23 | 66 | 3.16 | 0.40 | 3.6 |
| 4/25/2015 | 2:33:59 | 56.76 | 54.56 | 89 | 3.39 | 0.39 | 4.9 |
| 4/25/2015 | 2:34:04 | 57.09 | 54.89 | 78 | 3.41 | 0.39 | 4.3 |
| 4/25/2015 | 2:34:08 | 57.41 | 55.21 | 78 | 2.96 | 0.38 | 4.3 |
| 4/25/2015 | 2:34:13 | 57.74 | 55.54 | 95 | 3.12 | 0.39 | 5.2 |

## H441 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 2:25:53

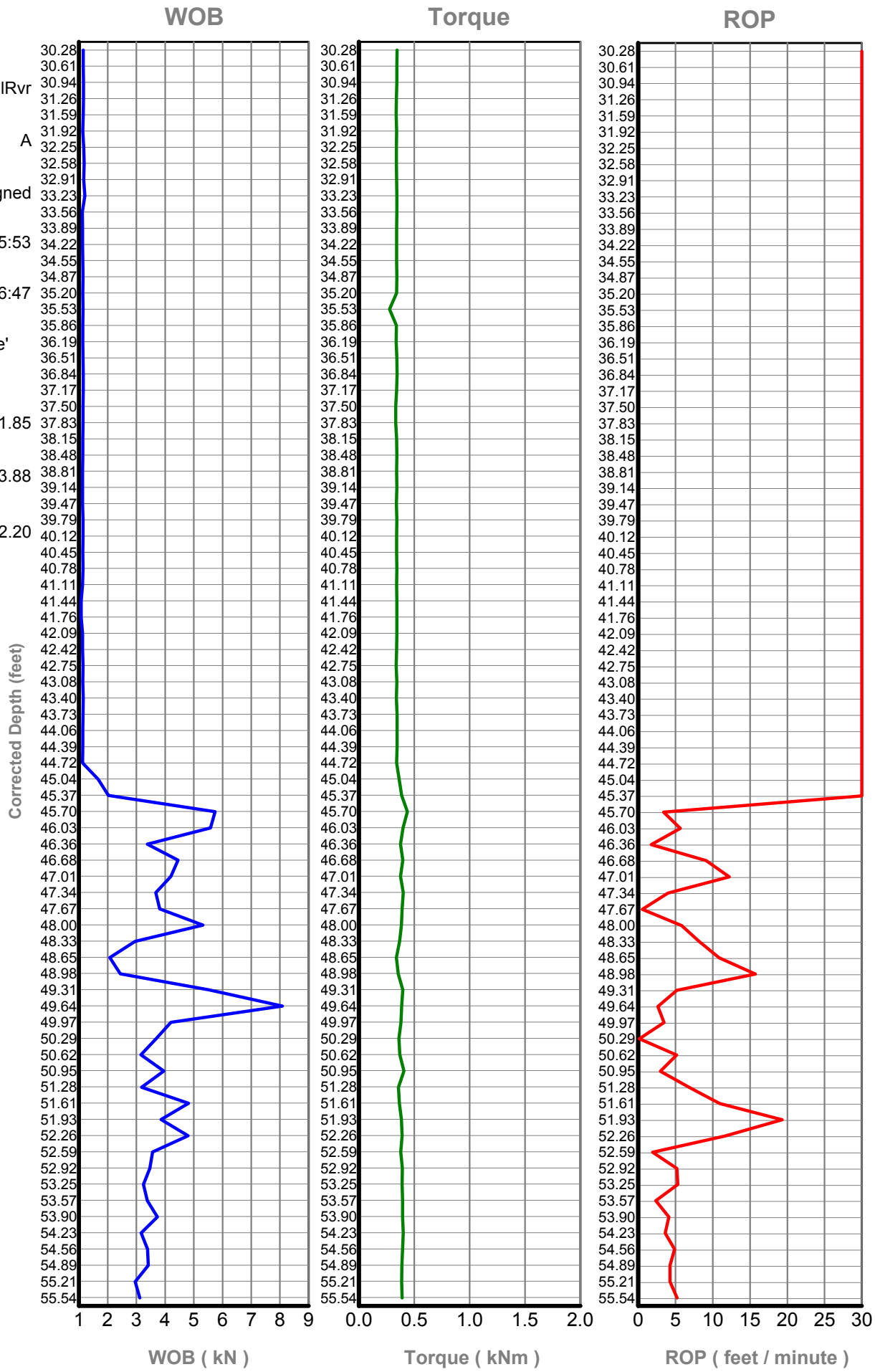
**End Date:**
4/25/2015 2:36:47

**Operator Note:**
'2.2 2.7 b Auto Complete'

**Northing:**
366,471.85

**Easting:**
251,273.88

**Tide (feet):**
2.20



## Hole: H442 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 2:31:52 | 32.48 | 30.08 | 625 | 1.97 | 0.17 | 34.2 |
| 4/25/2015 2:31:52 | 32.81 | 30.41 | 628 | 1.98 | 0.17 | 34.3 |
| 4/25/2015 2:31:53 | 33.14 | 30.74 | 617 | 1.95 | 0.17 | 33.8 |
| 4/25/2015 2:31:53 | 33.46 | 31.06 | 617 | 1.94 | 0.17 | 33.8 |
| 4/25/2015 2:31:54 | 33.79 | 31.39 | 622 | 1.95 | 0.17 | 34.0 |
| 4/25/2015 2:32:01 | 34.12 | 31.72 | 0 | 1.95 | 0.16 | 0.0 |
| 4/25/2015 2:32:01 | 34.45 | 32.05 | 103 | 2.03 | 0.17 | 5.6 |
| 4/25/2015 2:32:02 | 34.78 | 32.38 | 229 | 1.96 | 0.17 | 12.5 |
| 4/25/2015 2:32:02 | 35.11 | 32.71 | 352 | 1.97 | 0.17 | 19.3 |
| 4/25/2015 2:32:03 | 35.43 | 33.03 | 475 | 1.96 | 0.17 | 26.0 |
| 4/25/2015 2:32:03 | 35.76 | 33.36 | 601 | 1.96 | 0.17 | 32.9 |
| 4/25/2015 2:32:04 | 36.09 | 33.69 | 621 | 1.97 | 0.17 | 34.0 |
| 4/25/2015 2:32:04 | 36.42 | 34.02 | 621 | 1.99 | 0.17 | 34.0 |
| 4/25/2015 2:32:05 | 36.75 | 34.35 | 625 | 1.95 | 0.17 | 34.2 |
| 4/25/2015 2:32:06 | 37.07 | 34.67 | 621 | 1.96 | 0.17 | 34.0 |
| 4/25/2015 2:32:06 | 37.40 | 35.00 | 612 | 1.96 | 0.17 | 33.4 |
| 4/25/2015 2:32:07 | 37.73 | 35.33 | 612 | 1.97 | 0.17 | 33.4 |
| 4/25/2015 2:32:07 | 38.06 | 35.66 | 617 | 1.98 | 0.17 | 33.7 |
| 4/25/2015 2:32:08 | 38.39 | 35.99 | 618 | 1.98 | 0.17 | 33.8 |
| 4/25/2015 2:32:09 | 38.71 | 36.31 | 614 | 1.98 | 0.17 | 33.6 |
| 4/25/2015 2:32:09 | 39.04 | 36.64 | 614 | 1.96 | 0.17 | 33.6 |
| 4/25/2015 2:32:10 | 39.37 | 36.97 | 624 | 1.96 | 0.17 | 34.1 |
| 4/25/2015 2:32:11 | 39.70 | 37.30 | 621 | 1.96 | 0.17 | 34.0 |
| 4/25/2015 2:32:11 | 40.03 | 37.63 | 621 | 1.98 | 0.17 | 34.0 |
| 4/25/2015 2:32:12 | 40.35 | 37.95 | 621 | 1.98 | 0.17 | 34.0 |
| 4/25/2015 2:32:12 | 40.68 | 38.28 | 625 | 1.97 | 0.15 | 34.2 |
| 4/25/2015 2:32:13 | 41.01 | 38.61 | 621 | 1.98 | 0.17 | 34.0 |
| 4/25/2015 2:32:13 | 41.34 | 38.94 | 618 | 1.95 | 0.17 | 33.8 |
| 4/25/2015 2:32:14 | 41.67 | 39.27 | 624 | 1.97 | 0.17 | 34.1 |
| 4/25/2015 2:32:14 | 41.99 | 39.59 | 622 | 1.96 | 0.17 | 34.0 |
| 4/25/2015 2:32:15 | 42.32 | 39.92 | 622 | 1.98 | 0.17 | 34.0 |
| 4/25/2015 2:32:15 | 42.65 | 40.25 | 618 | 1.98 | 0.17 | 33.8 |
| 4/25/2015 2:32:16 | 42.98 | 40.58 | 619 | 1.95 | 0.17 | 33.8 |
| 4/25/2015 2:32:17 | 43.31 | 40.91 | 619 | 1.96 | 0.17 | 33.8 |
| 4/25/2015 2:32:17 | 43.64 | 41.24 | 612 | 1.95 | 0.17 | 33.4 |
| 4/25/2015 2:32:18 | 43.96 | 41.56 | 623 | 1.98 | 0.17 | 34.1 |
| 4/25/2015 2:32:19 | 44.29 | 41.89 | 609 | 1.96 | 0.17 | 33.3 |
| 4/25/2015 2:32:19 | 44.62 | 42.22 | 606 | 1.96 | 0.17 | 33.1 |
| 4/25/2015 2:32:20 | 44.95 | 42.55 | 606 | 1.93 | 0.17 | 33.1 |
| 4/25/2015 2:32:20 | 45.28 | 42.88 | 616 | 1.97 | 0.17 | 33.7 |
| 4/25/2015 2:32:21 | 45.60 | 43.20 | 610 | 1.98 | 0.17 | 33.4 |
| 4/25/2015 2:32:22 | 45.93 | 43.53 | 600 | 1.95 | 0.17 | 32.8 |
| 4/25/2015 2:32:22 | 46.26 | 43.86 | 617 | 1.95 | 0.17 | 33.8 |
| 4/25/2015 2:32:23 | 46.59 | 44.19 | 607 | 1.96 | 0.17 | 33.2 |
| 4/25/2015 2:32:23 | 46.92 | 44.52 | 607 | 1.96 | 0.17 | 33.2 |
| 4/25/2015 2:32:24 | 47.24 | 44.84 | 600 | 1.97 | 0.17 | 32.8 |
| 4/25/2015 2:32:24 | 47.57 | 45.17 | 609 | 1.97 | 0.17 | 33.3 |
| 4/25/2015 2:32:42 | 47.90 | 45.50 | 0 | 1.99 | 1.47 | 0.0 |
| 4/25/2015 2:32:50 | 48.23 | 45.83 | 50 | 1.99 | 1.26 | 2.7 |
| 4/25/2015 2:32:55 | 48.56 | 46.16 | 0 | 1.98 | 1.29 | 0.0 |
| 4/25/2015 2:33:08 | 48.88 | 46.48 | 0 | 1.98 | 1.23 | 0.0 |
| 4/25/2015 2:33:09 | 49.21 | 46.81 | 124 | 2.01 | 1.21 | 6.8 |
| 4/25/2015 2:33:16 | 49.54 | 47.14 | 0 | 1.98 | 1.09 | 0.0 |
| 4/25/2015 2:33:17 | 49.87 | 47.47 | 125 | 1.98 | 1.14 | 6.8 |
| 4/25/2015 2:33:18 | 50.20 | 47.80 | 259 | 1.97 | 1.21 | 14.2 |
| 4/25/2015 2:33:26 | 50.53 | 48.13 | 63 | 1.95 | 1.17 | 3.5 |
| 4/25/2015 2:33:27 | 50.85 | 48.45 | 179 | 1.98 | 1.52 | 9.8 |
| 4/25/2015 2:33:50 | 51.18 | 48.78 | 0 | 1.99 | 1.13 | 0.0 |
| 4/25/2015 2:34:02 | 51.51 | 49.11 | 80 | 1.96 | 1.15 | 4.4 |
| 4/25/2015 2:34:04 | 51.84 | 49.44 | 246 | 1.96 | 1.15 | 13.5 |
| 4/25/2015 2:34:15 | 52.17 | 49.77 | 81 | 1.98 | 1.13 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 2:34:17 | 52.49 | 50.09 | 148 | 1.98 | 1.31 | 8.1 |
| 4/25/2015 | 2:34:20 | 52.82 | 50.42 | 110 | 1.98 | 1.23 | 6.0 |
| 4/25/2015 | 2:34:23 | 53.15 | 50.75 | 124 | 1.98 | 1.18 | 6.8 |
| 4/25/2015 | 2:34:27 | 53.48 | 51.08 | 125 | 1.99 | 1.21 | 6.8 |
| 4/25/2015 | 2:34:31 | 53.81 | 51.41 | 73 | 1.99 | 1.14 | 4.0 |
| 4/25/2015 | 2:34:37 | 54.13 | 51.73 | 73 | 1.98 | 1.17 | 4.0 |
| 4/25/2015 | 2:34:43 | 54.46 | 52.06 | 64 | 1.96 | 1.18 | 3.5 |
| 4/25/2015 | 2:34:47 | 54.79 | 52.39 | 108 | 1.99 | 1.25 | 5.9 |
| 4/25/2015 | 2:34:48 | 54.89 | 52.49 | 78 | 1.97 | 1.24 | 4.3 |

## H442 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 2:29:37

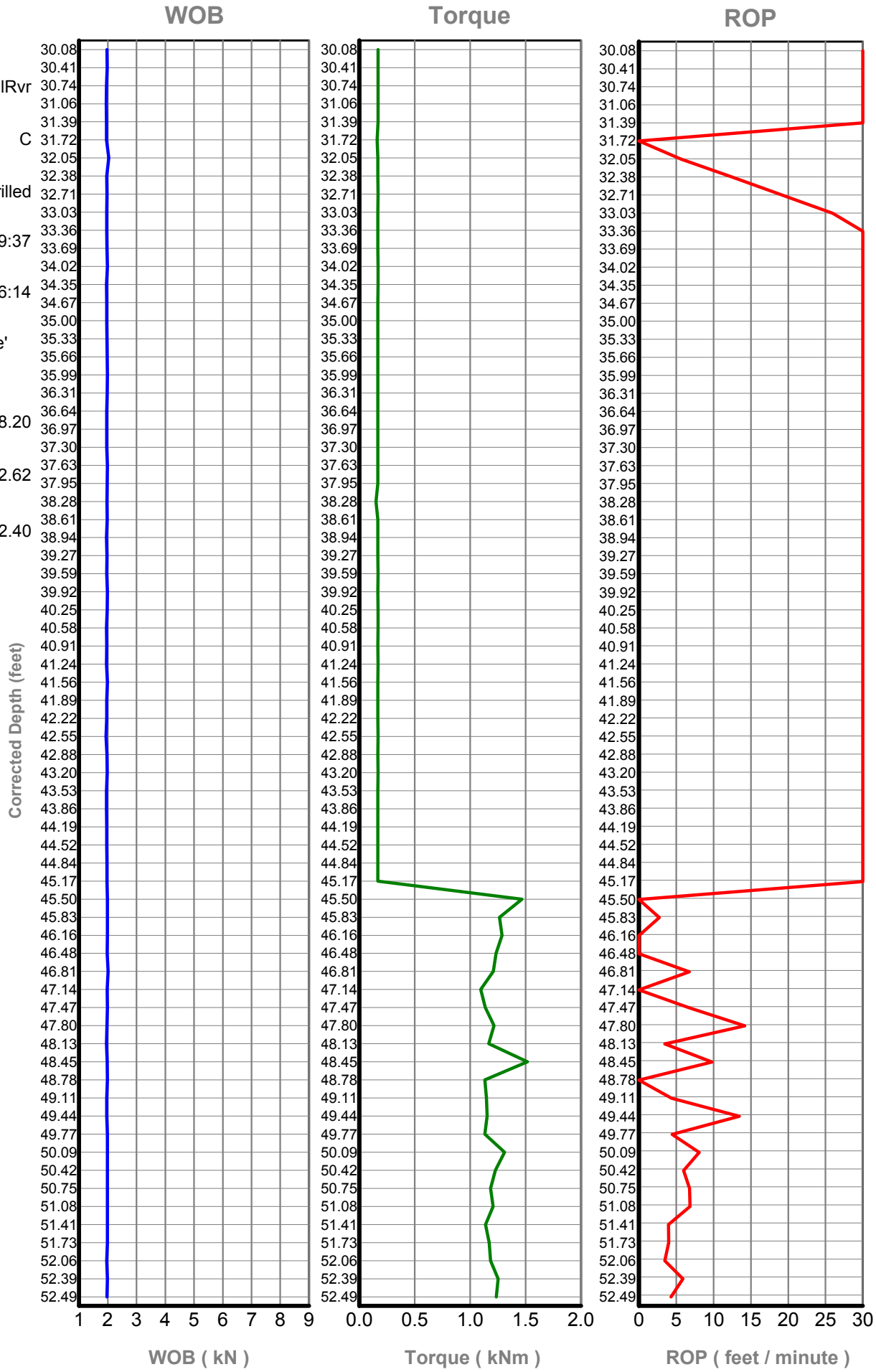
**End Date:**
4/25/2015 2:36:14

**Operator Note:**
'2.4 2.7 c Auto Complete'

**Northing:**
366,518.20

**Easting:**
251,332.62

**Tide (feet):**
2.40



## Hole: H443 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:22:10 | 35.43 | 30.23 | 876 | 0.20 | 0.32 | 47.9 |
| 4/24/2015 5:22:11 | 35.76 | 30.56 | 879 | 0.20 | 0.32 | 48.1 |
| 4/24/2015 5:22:11 | 36.09 | 30.89 | 879 | 0.20 | 0.32 | 48.1 |
| 4/24/2015 5:22:11 | 36.42 | 31.22 | 876 | 0.21 | 0.32 | 47.9 |
| 4/24/2015 5:22:12 | 36.75 | 31.55 | 876 | 0.21 | 0.32 | 47.9 |
| 4/24/2015 5:22:12 | 37.07 | 31.87 | 871 | 0.20 | 0.31 | 47.6 |
| 4/24/2015 5:22:13 | 37.40 | 32.20 | 871 | 0.20 | 0.31 | 47.6 |
| 4/24/2015 5:22:13 | 37.73 | 32.53 | 885 | 0.20 | 0.31 | 48.4 |
| 4/24/2015 5:22:13 | 38.06 | 32.86 | 885 | 0.20 | 0.32 | 48.4 |
| 4/24/2015 5:22:14 | 38.39 | 33.19 | 887 | 0.21 | 0.32 | 48.5 |
| 4/24/2015 5:22:15 | 38.71 | 33.51 | 887 | 0.21 | 0.32 | 48.5 |
| 4/24/2015 5:22:14 | 39.04 | 33.84 | 881 | 0.20 | 0.32 | 48.2 |
| 4/24/2015 5:22:15 | 39.37 | 34.17 | 891 | 0.20 | 0.32 | 48.7 |
| 4/24/2015 5:22:16 | 39.70 | 34.50 | 873 | 0.20 | 0.31 | 47.8 |
| 4/24/2015 5:22:16 | 40.03 | 34.83 | 873 | 0.20 | 0.32 | 47.8 |
| 4/24/2015 5:22:17 | 40.35 | 35.15 | 873 | 0.20 | 0.32 | 47.8 |
| 4/24/2015 5:22:17 | 40.68 | 35.48 | 877 | 0.20 | 0.32 | 48.0 |
| 4/24/2015 5:22:17 | 41.01 | 35.81 | 880 | 0.21 | 0.32 | 48.1 |
| 4/24/2015 5:22:18 | 41.34 | 36.14 | 890 | 0.20 | 0.40 | 48.7 |
| 4/24/2015 5:22:18 | 41.67 | 36.47 | 890 | 0.20 | 0.40 | 48.7 |
| 4/24/2015 5:22:18 | 41.99 | 36.79 | 887 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 5:22:19 | 42.32 | 37.12 | 892 | 0.21 | 0.32 | 48.8 |
| 4/24/2015 5:22:19 | 42.65 | 37.45 | 894 | 0.21 | 0.32 | 48.9 |
| 4/24/2015 5:22:20 | 42.98 | 37.78 | 891 | 0.21 | 0.32 | 48.7 |
| 4/24/2015 5:22:20 | 43.31 | 38.11 | 891 | 0.21 | 0.32 | 48.7 |
| 4/24/2015 5:22:20 | 43.64 | 38.44 | 888 | 0.21 | 0.32 | 48.6 |
| 4/24/2015 5:22:21 | 43.96 | 38.76 | 877 | 0.26 | 0.32 | 47.9 |
| 4/24/2015 5:22:21 | 44.29 | 39.09 | 890 | 0.20 | 0.32 | 48.7 |
| 4/24/2015 5:22:22 | 44.62 | 39.42 | 890 | 0.20 | 0.32 | 48.7 |
| 4/24/2015 5:22:22 | 44.95 | 39.75 | 879 | 0.20 | 0.32 | 48.1 |
| 4/24/2015 5:22:22 | 45.28 | 40.08 | 876 | 0.20 | 0.32 | 47.9 |
| 4/24/2015 5:22:23 | 45.60 | 40.40 | 870 | 0.20 | 0.32 | 47.6 |
| 4/24/2015 5:22:23 | 45.93 | 40.73 | 876 | 0.20 | 0.32 | 47.9 |
| 4/24/2015 5:22:24 | 46.26 | 41.06 | 876 | 0.20 | 0.32 | 47.9 |
| 4/24/2015 5:22:24 | 46.59 | 41.39 | 868 | 0.20 | 0.32 | 47.4 |
| 4/24/2015 5:22:24 | 46.92 | 41.72 | 863 | 0.22 | 0.32 | 47.2 |
| 4/24/2015 5:22:25 | 47.24 | 42.04 | 871 | 0.20 | 0.32 | 47.6 |
| 4/24/2015 5:22:25 | 47.57 | 42.37 | 882 | 0.20 | 0.32 | 48.3 |
| 4/24/2015 5:22:26 | 47.90 | 42.70 | 882 | 0.20 | 0.32 | 48.3 |
| 4/24/2015 5:22:26 | 48.23 | 43.03 | 882 | 0.20 | 0.32 | 48.2 |
| 4/24/2015 5:22:27 | 48.56 | 43.36 | 882 | 0.19 | 0.34 | 48.2 |
| 4/24/2015 5:22:28 | 48.88 | 43.68 | 726 | 0.18 | 0.40 | 39.7 |
| 4/24/2015 5:22:58 | 49.21 | 44.01 | 123 | 8.20 | 0.40 | 6.7 |
| 4/24/2015 5:23:06 | 49.54 | 44.34 | 82 | 4.34 | 0.38 | 4.5 |
| 4/24/2015 5:23:08 | 49.87 | 44.67 | 148 | 3.73 | 0.36 | 8.1 |
| 4/24/2015 5:23:11 | 50.20 | 45.00 | 134 | 3.99 | 0.38 | 7.3 |
| 4/24/2015 5:23:13 | 50.53 | 45.33 | 118 | 5.08 | 0.40 | 6.5 |
| 4/24/2015 5:23:15 | 50.85 | 45.65 | 173 | 4.91 | 0.37 | 9.5 |
| 4/24/2015 5:23:16 | 51.18 | 45.98 | 249 | 7.90 | 0.37 | 13.6 |
| 4/24/2015 5:23:17 | 51.51 | 46.31 | 277 | 7.49 | 0.38 | 15.1 |
| 4/24/2015 5:23:18 | 51.84 | 46.64 | 292 | 4.80 | 0.37 | 16.0 |
| 4/24/2015 5:23:20 | 52.17 | 46.97 | 270 | 4.47 | 0.39 | 14.8 |
| 4/24/2015 5:23:22 | 52.49 | 47.29 | 190 | 4.77 | 0.38 | 10.4 |
| 4/24/2015 5:23:23 | 52.82 | 47.62 | 210 | 4.21 | 0.38 | 11.5 |
| 4/24/2015 5:23:25 | 53.15 | 47.95 | 252 | 3.96 | 0.39 | 13.8 |
| 4/24/2015 5:23:26 | 53.48 | 48.28 | 242 | 4.28 | 0.38 | 13.2 |
| 4/24/2015 5:23:27 | 53.81 | 48.61 | 243 | 6.15 | 0.37 | 13.3 |
| 4/24/2015 5:23:29 | 54.13 | 48.93 | 237 | 6.57 | 0.38 | 13.0 |
| 4/24/2015 5:24:05 | 54.46 | 49.26 | 51 | 2.27 | 0.33 | 2.8 |
| 4/24/2015 5:24:05 | 54.79 | 49.59 | 183 | 2.63 | 0.35 | 10.0 |
| 4/24/2015 5:24:06 | 55.12 | 49.92 | 296 | 4.05 | 0.37 | 16.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:24:07 | 55.45 | 50.25 | 374 | 3.48 | 0.36 | 20.5 |
| 4/24/2015 | 5:24:08 | 55.77 | 50.57 | 423 | 3.45 | 0.36 | 23.1 |
| 4/24/2015 | 5:24:09 | 56.10 | 50.90 | 358 | 3.31 | 0.36 | 19.6 |
| 4/24/2015 | 5:24:10 | 56.43 | 51.23 | 355 | 3.98 | 0.37 | 19.4 |
| 4/24/2015 | 5:24:11 | 56.76 | 51.56 | 359 | 2.55 | 0.35 | 19.7 |
| 4/24/2015 | 5:24:12 | 57.09 | 51.89 | 362 | 2.98 | 0.36 | 19.8 |
| 4/24/2015 | 5:24:13 | 57.41 | 52.21 | 441 | 5.38 | 0.38 | 24.1 |
| 4/24/2015 | 5:24:18 | 57.74 | 52.54 | 87 | 5.42 | 0.37 | 4.7 |
| 4/24/2015 | 5:24:19 | 58.07 | 52.87 | 219 | 2.92 | 0.36 | 12.0 |
| 4/24/2015 | 5:24:20 | 58.40 | 53.20 | 307 | 2.69 | 0.34 | 16.8 |
| 4/24/2015 | 5:24:21 | 58.73 | 53.53 | 369 | 2.91 | 0.35 | 20.2 |
| 4/24/2015 | 5:24:22 | 59.06 | 53.86 | 436 | 2.84 | 0.35 | 23.8 |
| 4/24/2015 | 5:24:22 | 59.38 | 54.18 | 482 | 3.33 | 0.36 | 26.4 |
| 4/24/2015 | 5:24:23 | 59.71 | 54.51 | 507 | 3.11 | 0.35 | 27.7 |
| 4/24/2015 | 5:24:24 | 60.04 | 54.84 | 510 | 3.15 | 0.36 | 27.9 |
| 4/24/2015 | 5:24:25 | 60.37 | 55.17 | 457 | 3.98 | 0.38 | 25.0 |

## H443 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 5:18:24

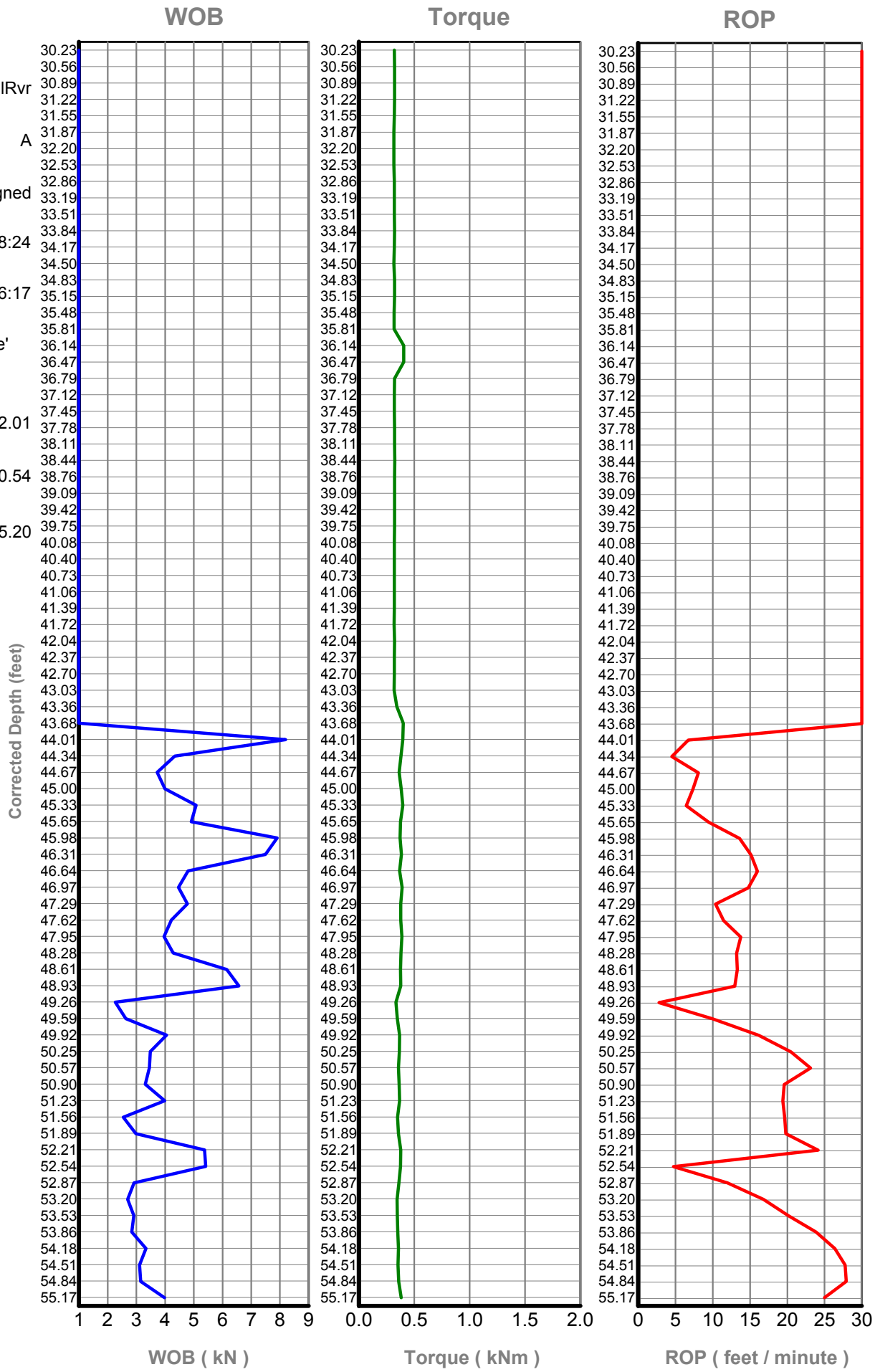
**End Date:**
4/24/2015 5:26:17

**Operator Note:**
'5.2 5.2 b Auto Complete'

**Northing:**
366,572.01

**Easting:**
251,410.54

**Tide (feet):**
5.20



## Hole: H444 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:12:56 | 35.43 | 30.23 | 821 | 0.21 | 0.32 | 44.9 |
| 4/24/2015 5:12:57 | 35.76 | 30.56 | 821 | 0.20 | 0.33 | 44.9 |
| 4/24/2015 5:12:57 | 36.09 | 30.89 | 829 | 0.21 | 0.33 | 45.3 |
| 4/24/2015 5:12:58 | 36.42 | 31.22 | 829 | 0.21 | 0.33 | 45.3 |
| 4/24/2015 5:12:58 | 36.75 | 31.55 | 799 | 0.20 | 0.32 | 43.7 |
| 4/24/2015 5:12:58 | 37.07 | 31.87 | 799 | 0.21 | 0.34 | 43.7 |
| 4/24/2015 5:12:59 | 37.40 | 32.20 | 821 | 0.21 | 0.32 | 44.9 |
| 4/24/2015 5:12:59 | 37.73 | 32.53 | 833 | 0.20 | 0.32 | 45.5 |
| 4/24/2015 5:13:00 | 38.06 | 32.86 | 833 | 0.20 | 0.32 | 45.5 |
| 4/24/2015 5:13:00 | 38.39 | 33.19 | 847 | 0.21 | 0.32 | 46.3 |
| 4/24/2015 5:13:00 | 38.71 | 33.51 | 848 | 0.21 | 0.33 | 46.4 |
| 4/24/2015 5:13:01 | 39.04 | 33.84 | 884 | 0.21 | 0.33 | 48.3 |
| 4/24/2015 5:13:01 | 39.37 | 34.17 | 867 | 0.20 | 0.32 | 47.4 |
| 4/24/2015 5:13:02 | 39.70 | 34.50 | 867 | 0.20 | 0.32 | 47.4 |
| 4/24/2015 5:13:02 | 40.03 | 34.83 | 867 | 0.21 | 0.32 | 47.4 |
| 4/24/2015 5:13:02 | 40.35 | 35.15 | 873 | 0.21 | 0.32 | 47.7 |
| 4/24/2015 5:13:03 | 40.68 | 35.48 | 870 | 0.21 | 0.32 | 47.6 |
| 4/24/2015 5:13:03 | 41.01 | 35.81 | 868 | 0.21 | 0.32 | 47.4 |
| 4/24/2015 5:13:04 | 41.34 | 36.14 | 868 | 0.21 | 0.32 | 47.4 |
| 4/24/2015 5:13:04 | 41.67 | 36.47 | 876 | 0.18 | 0.32 | 47.9 |
| 4/24/2015 5:13:05 | 41.99 | 36.79 | 879 | 0.20 | 0.32 | 48.1 |
| 4/24/2015 5:13:05 | 42.32 | 37.12 | 879 | 0.21 | 0.32 | 48.1 |
| 4/24/2015 5:13:06 | 42.65 | 37.45 | 879 | 0.21 | 0.32 | 48.1 |
| 4/24/2015 5:13:06 | 42.98 | 37.78 | 879 | 0.21 | 0.32 | 48.1 |
| 4/24/2015 5:13:06 | 43.31 | 38.11 | 858 | 0.21 | 0.32 | 46.9 |
| 4/24/2015 5:13:07 | 43.64 | 38.44 | 864 | 0.21 | 0.32 | 47.2 |
| 4/24/2015 5:13:07 | 43.96 | 38.76 | 864 | 0.21 | 0.32 | 47.2 |
| 4/24/2015 5:13:08 | 44.29 | 39.09 | 864 | 0.21 | 0.32 | 47.2 |
| 4/24/2015 5:13:08 | 44.62 | 39.42 | 861 | 0.21 | 0.32 | 47.1 |
| 4/24/2015 5:13:08 | 44.95 | 39.75 | 861 | 0.21 | 0.32 | 47.1 |
| 4/24/2015 5:13:09 | 45.28 | 40.08 | 866 | 0.22 | 0.32 | 47.4 |
| 4/24/2015 5:13:09 | 45.60 | 40.40 | 874 | 0.21 | 0.33 | 47.8 |
| 4/24/2015 5:13:10 | 45.93 | 40.73 | 874 | 0.21 | 0.33 | 47.8 |
| 4/24/2015 5:13:10 | 46.26 | 41.06 | 870 | 0.21 | 0.32 | 47.6 |
| 4/24/2015 5:13:10 | 46.59 | 41.39 | 870 | 0.20 | 0.32 | 47.6 |
| 4/24/2015 5:13:11 | 46.92 | 41.72 | 863 | 0.21 | 0.32 | 47.2 |
| 4/24/2015 5:13:11 | 47.24 | 42.04 | 863 | 0.21 | 0.32 | 47.2 |
| 4/24/2015 5:13:11 | 47.57 | 42.37 | 869 | 0.21 | 0.32 | 47.5 |
| 4/24/2015 5:13:12 | 47.90 | 42.70 | 859 | 0.22 | 0.32 | 46.9 |
| 4/24/2015 5:13:12 | 48.23 | 43.03 | 859 | 0.22 | 0.32 | 46.9 |
| 4/24/2015 5:13:13 | 48.56 | 43.36 | 862 | 0.22 | 0.32 | 47.1 |
| 4/24/2015 5:13:13 | 48.88 | 43.68 | 862 | 0.22 | 0.32 | 47.1 |
| 4/24/2015 5:13:13 | 49.21 | 44.01 | 897 | 0.21 | 0.32 | 49.1 |
| 4/24/2015 5:13:14 | 49.54 | 44.34 | 901 | 0.21 | 0.32 | 49.3 |
| 4/24/2015 5:13:15 | 49.87 | 44.67 | 899 | 0.18 | 0.34 | 49.2 |
| 4/24/2015 5:13:15 | 50.20 | 45.00 | 899 | 0.18 | 0.34 | 49.2 |
| 4/24/2015 5:13:16 | 50.53 | 45.33 | 764 | 0.17 | 0.37 | 41.8 |
| 4/24/2015 5:13:34 | 50.85 | 45.65 | 107 | 3.71 | 0.37 | 5.8 |
| 4/24/2015 5:13:41 | 51.18 | 45.98 | 29 | 5.42 | 0.37 | 1.6 |
| 4/24/2015 5:13:43 | 51.51 | 46.31 | 161 | 3.92 | 0.37 | 8.8 |
| 4/24/2015 5:13:44 | 51.84 | 46.64 | 274 | 3.35 | 0.36 | 15.0 |
| 4/24/2015 5:13:44 | 52.17 | 46.97 | 303 | 3.78 | 0.37 | 16.6 |
| 4/24/2015 5:13:50 | 52.49 | 47.29 | 0 | 3.81 | 0.37 | 0.0 |
| 4/24/2015 5:13:52 | 52.82 | 47.62 | 113 | 4.88 | 0.36 | 6.2 |
| 4/24/2015 5:13:53 | 53.15 | 47.95 | 267 | 3.04 | 0.36 | 14.6 |
| 4/24/2015 5:13:54 | 53.48 | 48.28 | 345 | 4.00 | 0.37 | 18.9 |
| 4/24/2015 5:13:55 | 53.81 | 48.61 | 365 | 3.98 | 0.37 | 19.9 |
| 4/24/2015 5:13:56 | 54.13 | 48.93 | 333 | 3.71 | 0.37 | 18.2 |
| 4/24/2015 5:13:57 | 54.46 | 49.26 | 355 | 3.31 | 0.36 | 19.4 |
| 4/24/2015 5:13:58 | 54.79 | 49.59 | 404 | 3.18 | 0.36 | 22.1 |
| 4/24/2015 5:13:59 | 55.12 | 49.92 | 445 | 3.99 | 0.37 | 24.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:14:00 | 55.45 | 50.25 | 407 | 3.22 | 0.36 | 22.3 |
| 4/24/2015 | 5:14:01 | 55.77 | 50.57 | 381 | 3.36 | 0.37 | 20.8 |
| 4/24/2015 | 5:14:02 | 56.10 | 50.90 | 348 | 2.95 | 0.36 | 19.1 |
| 4/24/2015 | 5:14:02 | 56.43 | 51.23 | 362 | 2.95 | 0.36 | 19.8 |
| 4/24/2015 | 5:14:03 | 56.76 | 51.56 | 387 | 2.79 | 0.36 | 21.2 |
| 4/24/2015 | 5:14:08 | 57.09 | 51.89 | 0 | 2.59 | 0.34 | 0.0 |
| 4/24/2015 | 5:14:09 | 57.41 | 52.21 | 72 | 2.65 | 0.35 | 3.9 |
| 4/24/2015 | 5:14:09 | 57.74 | 52.54 | 186 | 2.86 | 0.43 | 10.2 |
| 4/24/2015 | 5:14:10 | 58.07 | 52.87 | 295 | 2.80 | 0.36 | 16.1 |
| 4/24/2015 | 5:14:11 | 58.40 | 53.20 | 478 | 2.52 | 0.34 | 26.1 |
| 4/24/2015 | 5:14:11 | 58.73 | 53.53 | 520 | 2.57 | 0.35 | 28.4 |
| 4/24/2015 | 5:14:12 | 59.06 | 53.86 | 529 | 2.65 | 0.35 | 28.9 |
| 4/24/2015 | 5:14:13 | 59.38 | 54.18 | 535 | 2.63 | 0.35 | 29.2 |
| 4/24/2015 | 5:14:13 | 59.71 | 54.51 | 544 | 2.81 | 0.35 | 29.7 |
| 4/24/2015 | 5:14:16 | 60.04 | 54.84 | 129 | 2.42 | 0.34 | 7.1 |
| 4/24/2015 | 5:14:19 | 60.23 | 55.03 | 0 | 2.38 | 0.31 | 0.0 |

## H444 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 5:08:21

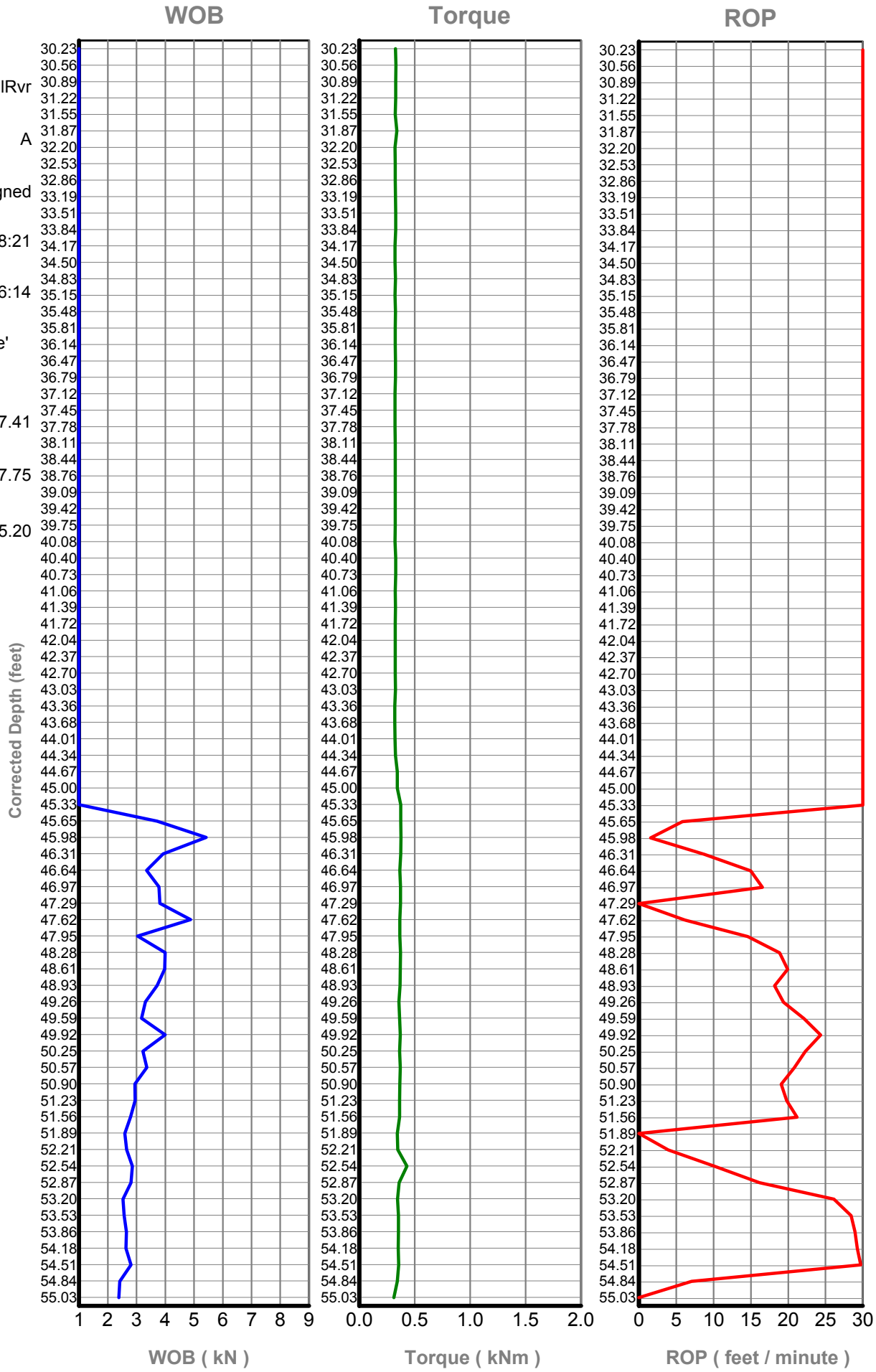
**End Date:**
4/24/2015 5:16:14

**Operator Note:**
'5.2 5.2 b Auto Complete'

**Northing:**
366,607.41

**Easting:**
251,457.75

**Tide (feet):**
5.20



## Hole: H445 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 5:12:23 | 35.43 | 30.23 | 552 | 1.95 | 0.18 | 30.2 |
| 4/24/2015 5:12:23 | 35.76 | 30.56 | 557 | 2.01 | 0.18 | 30.4 |
| 4/24/2015 5:12:24 | 36.09 | 30.89 | 570 | 2.00 | 0.18 | 31.2 |
| 4/24/2015 5:12:25 | 36.42 | 31.22 | 572 | 2.04 | 0.18 | 31.3 |
| 4/24/2015 5:12:25 | 36.75 | 31.55 | 568 | 2.01 | 0.18 | 31.1 |
| 4/24/2015 5:12:26 | 37.07 | 31.87 | 568 | 2.03 | 0.18 | 31.1 |
| 4/24/2015 5:12:26 | 37.40 | 32.20 | 572 | 2.03 | 0.18 | 31.3 |
| 4/24/2015 5:12:27 | 37.73 | 32.53 | 572 | 2.02 | 0.18 | 31.3 |
| 4/24/2015 5:12:28 | 38.06 | 32.86 | 564 | 2.01 | 0.18 | 30.8 |
| 4/24/2015 5:12:29 | 38.39 | 33.19 | 564 | 2.00 | 0.18 | 30.8 |
| 4/24/2015 5:12:29 | 38.71 | 33.51 | 567 | 1.99 | 0.18 | 31.0 |
| 4/24/2015 5:12:30 | 39.04 | 33.84 | 559 | 2.01 | 0.18 | 30.6 |
| 4/24/2015 5:12:30 | 39.37 | 34.17 | 559 | 2.02 | 0.18 | 30.6 |
| 4/24/2015 5:12:31 | 39.70 | 34.50 | 576 | 2.04 | 0.18 | 31.5 |
| 4/24/2015 5:12:32 | 40.03 | 34.83 | 572 | 2.03 | 0.18 | 31.3 |
| 4/24/2015 5:12:32 | 40.35 | 35.15 | 576 | 2.05 | 0.18 | 31.5 |
| 4/24/2015 5:12:33 | 40.68 | 35.48 | 573 | 2.02 | 0.18 | 31.3 |
| 4/24/2015 5:12:33 | 41.01 | 35.81 | 573 | 2.04 | 0.18 | 31.3 |
| 4/24/2015 5:12:34 | 41.34 | 36.14 | 552 | 2.00 | 0.18 | 30.2 |
| 4/24/2015 5:12:35 | 41.67 | 36.47 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 5:12:35 | 41.99 | 36.79 | 557 | 2.04 | 0.18 | 30.4 |
| 4/24/2015 5:12:36 | 42.32 | 37.12 | 556 | 2.03 | 0.18 | 30.4 |
| 4/24/2015 5:12:37 | 42.65 | 37.45 | 563 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 5:12:37 | 42.98 | 37.78 | 572 | 2.03 | 0.18 | 31.3 |
| 4/24/2015 5:12:38 | 43.31 | 38.11 | 573 | 2.02 | 0.18 | 31.4 |
| 4/24/2015 5:12:39 | 43.64 | 38.44 | 562 | 2.04 | 0.18 | 30.7 |
| 4/24/2015 5:12:39 | 43.96 | 38.76 | 562 | 2.00 | 0.18 | 30.7 |
| 4/24/2015 5:12:40 | 44.29 | 39.09 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 5:12:41 | 44.62 | 39.42 | 567 | 2.04 | 0.18 | 31.0 |
| 4/24/2015 5:12:41 | 44.95 | 39.75 | 555 | 2.04 | 0.18 | 30.3 |
| 4/24/2015 5:12:42 | 45.28 | 40.08 | 564 | 2.04 | 0.18 | 30.8 |
| 4/24/2015 5:12:42 | 45.60 | 40.40 | 551 | 1.95 | 0.18 | 30.1 |
| 4/24/2015 5:12:43 | 45.93 | 40.73 | 551 | 2.01 | 0.18 | 30.1 |
| 4/24/2015 5:12:44 | 46.26 | 41.06 | 551 | 2.01 | 0.25 | 30.1 |
| 4/24/2015 5:12:44 | 46.59 | 41.39 | 555 | 2.02 | 0.18 | 30.3 |
| 4/24/2015 5:12:45 | 46.92 | 41.72 | 552 | 2.04 | 0.18 | 30.2 |
| 4/24/2015 5:12:46 | 47.24 | 42.04 | 559 | 2.04 | 0.18 | 30.6 |
| 4/24/2015 5:12:46 | 47.57 | 42.37 | 572 | 2.04 | 0.18 | 31.3 |
| 4/24/2015 5:12:47 | 47.90 | 42.70 | 568 | 2.04 | 0.18 | 31.1 |
| 4/24/2015 5:12:48 | 48.23 | 43.03 | 552 | 2.05 | 0.18 | 30.2 |
| 4/24/2015 5:12:48 | 48.56 | 43.36 | 568 | 2.04 | 0.18 | 31.1 |
| 4/24/2015 5:12:49 | 48.88 | 43.68 | 565 | 2.06 | 0.18 | 30.9 |
| 4/24/2015 5:12:50 | 49.21 | 44.01 | 565 | 2.02 | 0.18 | 30.9 |
| 4/24/2015 5:12:50 | 49.54 | 44.34 | 574 | 2.05 | 0.18 | 31.4 |
| 4/24/2015 5:12:51 | 49.87 | 44.67 | 574 | 2.02 | 0.18 | 31.4 |
| 4/24/2015 5:12:51 | 50.20 | 45.00 | 567 | 2.01 | 0.18 | 31.0 |
| 4/24/2015 5:13:10 | 50.53 | 45.33 | 15 | 2.03 | 1.56 | 0.8 |
| 4/24/2015 5:13:14 | 50.85 | 45.65 | 47 | 2.05 | 1.27 | 2.6 |
| 4/24/2015 5:13:15 | 51.18 | 45.98 | 163 | 2.03 | 1.27 | 8.9 |
| 4/24/2015 5:13:22 | 51.51 | 46.31 | 0 | 2.05 | 1.51 | 0.0 |
| 4/24/2015 5:13:35 | 51.84 | 46.64 | 10 | 2.03 | 1.36 | 0.5 |
| 4/24/2015 5:13:37 | 52.17 | 46.97 | 124 | 2.00 | 1.24 | 6.8 |
| 4/24/2015 5:13:39 | 52.49 | 47.29 | 195 | 2.02 | 1.19 | 10.7 |
| 4/24/2015 5:13:40 | 52.82 | 47.62 | 258 | 2.03 | 1.28 | 14.1 |
| 4/24/2015 5:14:05 | 53.15 | 47.95 | 83 | 2.02 | 1.20 | 4.6 |
| 4/24/2015 5:14:07 | 53.48 | 48.28 | 180 | 2.04 | 1.34 | 9.8 |
| 4/24/2015 5:14:08 | 53.81 | 48.61 | 237 | 2.03 | 1.29 | 13.0 |
| 4/24/2015 5:14:11 | 54.13 | 48.93 | 145 | 2.02 | 1.16 | 7.9 |
| 4/24/2015 5:14:13 | 54.46 | 49.26 | 137 | 2.06 | 1.17 | 7.5 |
| 4/24/2015 5:14:14 | 54.79 | 49.59 | 215 | 2.04 | 1.14 | 11.8 |
| 4/24/2015 5:14:26 | 55.12 | 49.92 | 57 | 2.02 | 1.20 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 5:14:28 | 55.45 | 50.25 | 182 | 2.02 | 1.41 | 9.9 |
| 4/24/2015 | 5:14:29 | 55.77 | 50.57 | 225 | 2.01 | 1.20 | 12.3 |
| 4/24/2015 | 5:14:30 | 56.10 | 50.90 | 260 | 2.04 | 1.15 | 14.2 |
| 4/24/2015 | 5:14:31 | 56.43 | 51.23 | 301 | 2.02 | 1.10 | 16.5 |
| 4/24/2015 | 5:14:33 | 56.76 | 51.56 | 321 | 2.02 | 1.11 | 17.5 |
| 4/24/2015 | 5:14:34 | 57.09 | 51.89 | 315 | 2.02 | 1.12 | 17.2 |
| 4/24/2015 | 5:14:36 | 57.41 | 52.21 | 280 | 1.88 | 1.12 | 15.3 |
| 4/24/2015 | 5:14:38 | 57.74 | 52.54 | 176 | 2.02 | 1.15 | 9.6 |
| 4/24/2015 | 5:14:39 | 58.07 | 52.87 | 253 | 2.03 | 1.15 | 13.8 |
| 4/24/2015 | 5:14:40 | 58.40 | 53.20 | 370 | 2.02 | 1.14 | 20.3 |
| 4/24/2015 | 5:14:41 | 58.73 | 53.53 | 249 | 2.01 | 1.17 | 13.6 |
| 4/24/2015 | 5:14:45 | 59.06 | 53.86 | 38 | 2.02 | 1.11 | 2.1 |
| 4/24/2015 | 5:14:46 | 59.38 | 54.18 | 156 | 2.04 | 1.14 | 8.6 |
| 4/24/2015 | 5:14:48 | 59.71 | 54.51 | 246 | 2.02 | 1.15 | 13.5 |
| 4/24/2015 | 5:14:50 | 60.04 | 54.84 | 215 | 2.19 | 1.13 | 11.8 |
| 4/24/2015 | 5:14:51 | 60.16 | 54.96 | 150 | 1.84 | 1.09 | 8.2 |

## H445 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 5:09:39

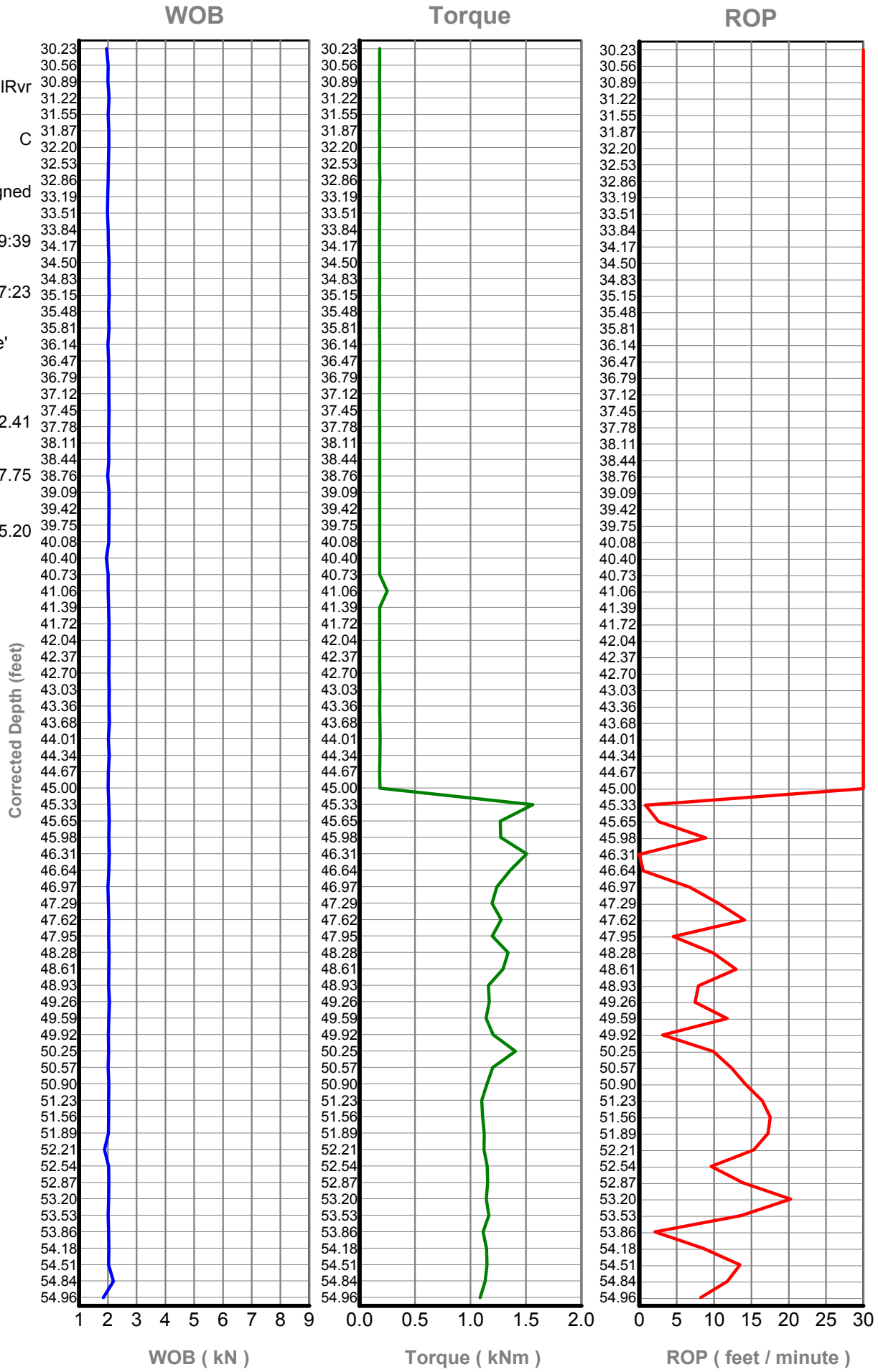
**End Date:**
4/24/2015 5:17:23

**Operator Note:**
'5.2 5.2 c Auto Complete'

**Northing:**
366,652.41

**Easting:**
251,517.75

**Tide (feet):**
5.20



## Hole: H446 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 4:33:33 | 35.11 | 30.21 | 887 | 0.27 | 0.33 | 48.5 |
| 4/24/2015 4:33:33 | 35.43 | 30.53 | 885 | 0.27 | 0.32 | 48.4 |
| 4/24/2015 4:33:34 | 35.76 | 30.86 | 887 | 0.26 | 0.33 | 48.5 |
| 4/24/2015 4:33:34 | 36.09 | 31.19 | 871 | 0.26 | 0.33 | 47.6 |
| 4/24/2015 4:33:35 | 36.42 | 31.52 | 876 | 0.25 | 0.33 | 47.9 |
| 4/24/2015 4:33:35 | 36.75 | 31.85 | 876 | 0.25 | 0.33 | 47.9 |
| 4/24/2015 4:33:35 | 37.07 | 32.17 | 868 | 0.26 | 0.33 | 47.5 |
| 4/24/2015 4:33:36 | 37.40 | 32.50 | 865 | 0.20 | 0.33 | 47.3 |
| 4/24/2015 4:33:36 | 37.73 | 32.83 | 860 | 0.20 | 0.33 | 47.0 |
| 4/24/2015 4:33:37 | 38.06 | 33.16 | 873 | 0.20 | 0.33 | 47.7 |
| 4/24/2015 4:33:37 | 38.39 | 33.49 | 873 | 0.20 | 0.33 | 47.7 |
| 4/24/2015 4:33:37 | 38.71 | 33.81 | 867 | 0.20 | 0.33 | 47.4 |
| 4/24/2015 4:33:38 | 39.04 | 34.14 | 878 | 0.20 | 0.32 | 48.0 |
| 4/24/2015 4:33:38 | 39.37 | 34.47 | 874 | 0.20 | 0.33 | 47.8 |
| 4/24/2015 4:33:39 | 39.70 | 34.80 | 874 | 0.20 | 0.33 | 47.8 |
| 4/24/2015 4:33:39 | 40.03 | 35.13 | 882 | 0.17 | 0.33 | 48.2 |
| 4/24/2015 4:33:39 | 40.35 | 35.45 | 888 | 0.20 | 0.33 | 48.5 |
| 4/24/2015 4:33:40 | 40.68 | 35.78 | 891 | 0.20 | 0.33 | 48.7 |
| 4/24/2015 4:33:41 | 41.01 | 36.11 | 888 | 0.20 | 0.33 | 48.6 |
| 4/24/2015 4:33:41 | 41.34 | 36.44 | 888 | 0.20 | 0.33 | 48.6 |
| 4/24/2015 4:33:41 | 41.67 | 36.77 | 899 | 0.21 | 0.32 | 49.1 |
| 4/24/2015 4:33:42 | 41.99 | 37.09 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 4:33:42 | 42.32 | 37.42 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 4:33:43 | 42.65 | 37.75 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 4:33:43 | 42.98 | 38.08 | 890 | 0.21 | 0.33 | 48.7 |
| 4/24/2015 4:33:43 | 43.31 | 38.41 | 888 | 0.21 | 0.32 | 48.5 |
| 4/24/2015 4:33:44 | 43.64 | 38.74 | 888 | 0.23 | 0.33 | 48.5 |
| 4/24/2015 4:33:44 | 43.96 | 39.06 | 888 | 0.23 | 0.33 | 48.5 |
| 4/24/2015 4:33:44 | 44.29 | 39.39 | 885 | 0.21 | 0.33 | 48.4 |
| 4/24/2015 4:33:45 | 44.62 | 39.72 | 876 | 0.20 | 0.32 | 47.9 |
| 4/24/2015 4:33:45 | 44.95 | 40.05 | 888 | 0.21 | 0.32 | 48.5 |
| 4/24/2015 4:33:46 | 45.28 | 40.38 | 890 | 0.21 | 0.33 | 48.7 |
| 4/24/2015 4:33:46 | 45.60 | 40.70 | 890 | 0.21 | 0.33 | 48.7 |
| 4/24/2015 4:33:46 | 45.93 | 41.03 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:33:47 | 46.26 | 41.36 | 885 | 0.20 | 0.33 | 48.4 |
| 4/24/2015 4:33:47 | 46.59 | 41.69 | 882 | 0.21 | 0.33 | 48.2 |
| 4/24/2015 4:33:48 | 46.92 | 42.02 | 882 | 0.21 | 0.33 | 48.2 |
| 4/24/2015 4:33:48 | 47.24 | 42.34 | 879 | 0.20 | 0.33 | 48.1 |
| 4/24/2015 4:33:48 | 47.57 | 42.67 | 860 | 0.20 | 0.33 | 47.0 |
| 4/24/2015 4:33:49 | 47.90 | 43.00 | 860 | 0.21 | 0.33 | 47.0 |
| 4/24/2015 4:33:49 | 48.23 | 43.33 | 873 | 0.21 | 0.32 | 47.7 |
| 4/24/2015 4:33:50 | 48.56 | 43.66 | 873 | 0.21 | 0.32 | 47.7 |
| 4/24/2015 4:33:50 | 48.88 | 43.98 | 873 | 0.21 | 0.32 | 47.7 |
| 4/24/2015 4:33:50 | 49.21 | 44.31 | 884 | 0.21 | 0.33 | 48.4 |
| 4/24/2015 4:33:51 | 49.54 | 44.64 | 879 | 0.21 | 0.33 | 48.0 |
| 4/24/2015 4:33:52 | 49.87 | 44.97 | 879 | 0.21 | 0.33 | 48.0 |
| 4/24/2015 4:33:52 | 50.20 | 45.30 | 867 | 0.20 | 0.34 | 47.4 |
| 4/24/2015 4:33:53 | 50.53 | 45.63 | 813 | 0.18 | 0.40 | 44.5 |
| 4/24/2015 4:34:19 | 50.85 | 45.95 | 107 | 3.42 | 0.38 | 5.9 |
| 4/24/2015 4:34:20 | 51.18 | 46.28 | 250 | 5.71 | 0.40 | 13.7 |
| 4/24/2015 4:34:23 | 51.51 | 46.61 | 196 | 4.92 | 0.39 | 10.7 |
| 4/24/2015 4:34:25 | 51.84 | 46.94 | 136 | 5.90 | 0.40 | 7.4 |
| 4/24/2015 4:34:27 | 52.17 | 47.27 | 154 | 3.43 | 0.38 | 8.4 |
| 4/24/2015 4:34:31 | 52.49 | 47.59 | 77 | 5.23 | 0.39 | 4.2 |
| 4/24/2015 4:34:37 | 52.82 | 47.92 | 41 | 4.54 | 0.40 | 2.2 |
| 4/24/2015 4:34:41 | 53.15 | 48.25 | 43 | 4.32 | 0.39 | 2.4 |
| 4/24/2015 4:34:42 | 53.48 | 48.58 | 125 | 3.24 | 0.37 | 6.8 |
| 4/24/2015 4:34:54 | 53.81 | 48.91 | 8 | 5.22 | 0.38 | 0.4 |
| 4/24/2015 4:34:55 | 54.13 | 49.23 | 80 | 4.59 | 0.37 | 4.4 |
| 4/24/2015 4:34:56 | 54.46 | 49.56 | 151 | 2.80 | 0.36 | 8.3 |
| 4/24/2015 4:34:57 | 54.79 | 49.89 | 265 | 2.65 | 0.36 | 14.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 4:34:57 | 55.12 | 50.22 | 376 | 3.31 | 0.35 | 20.6 |
| 4/24/2015 | 4:35:22 | 55.45 | 50.55 | 32 | 2.68 | 0.35 | 1.8 |
| 4/24/2015 | 4:35:22 | 55.77 | 50.87 | 150 | 2.64 | 0.36 | 8.2 |
| 4/24/2015 | 4:35:23 | 56.10 | 51.20 | 267 | 2.63 | 0.35 | 14.6 |
| 4/24/2015 | 4:35:24 | 56.43 | 51.53 | 487 | 2.79 | 0.36 | 26.6 |
| 4/24/2015 | 4:35:25 | 56.76 | 51.86 | 555 | 2.80 | 0.36 | 30.3 |
| 4/24/2015 | 4:35:26 | 57.09 | 52.19 | 489 | 3.01 | 0.38 | 26.7 |
| 4/24/2015 | 4:35:28 | 57.41 | 52.51 | 202 | 3.25 | 0.38 | 11.0 |
| 4/24/2015 | 4:35:29 | 57.74 | 52.84 | 176 | 2.99 | 0.37 | 9.6 |
| 4/24/2015 | 4:35:30 | 58.07 | 53.17 | 277 | 2.65 | 0.36 | 15.1 |
| 4/24/2015 | 4:35:30 | 58.40 | 53.50 | 354 | 2.82 | 0.36 | 19.4 |
| 4/24/2015 | 4:35:31 | 58.73 | 53.83 | 435 | 2.67 | 0.36 | 23.8 |
| 4/24/2015 | 4:35:32 | 59.06 | 54.16 | 435 | 2.88 | 0.37 | 23.8 |
| 4/24/2015 | 4:35:33 | 59.38 | 54.48 | 450 | 3.07 | 0.38 | 24.6 |
| 4/24/2015 | 4:35:38 | 59.71 | 54.81 | 3 | 2.90 | 0.36 | 0.2 |
| 4/24/2015 | 4:35:38 | 59.82 | 54.92 | 3 | 2.90 | 0.36 | 0.2 |

## H446 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 4:30:24

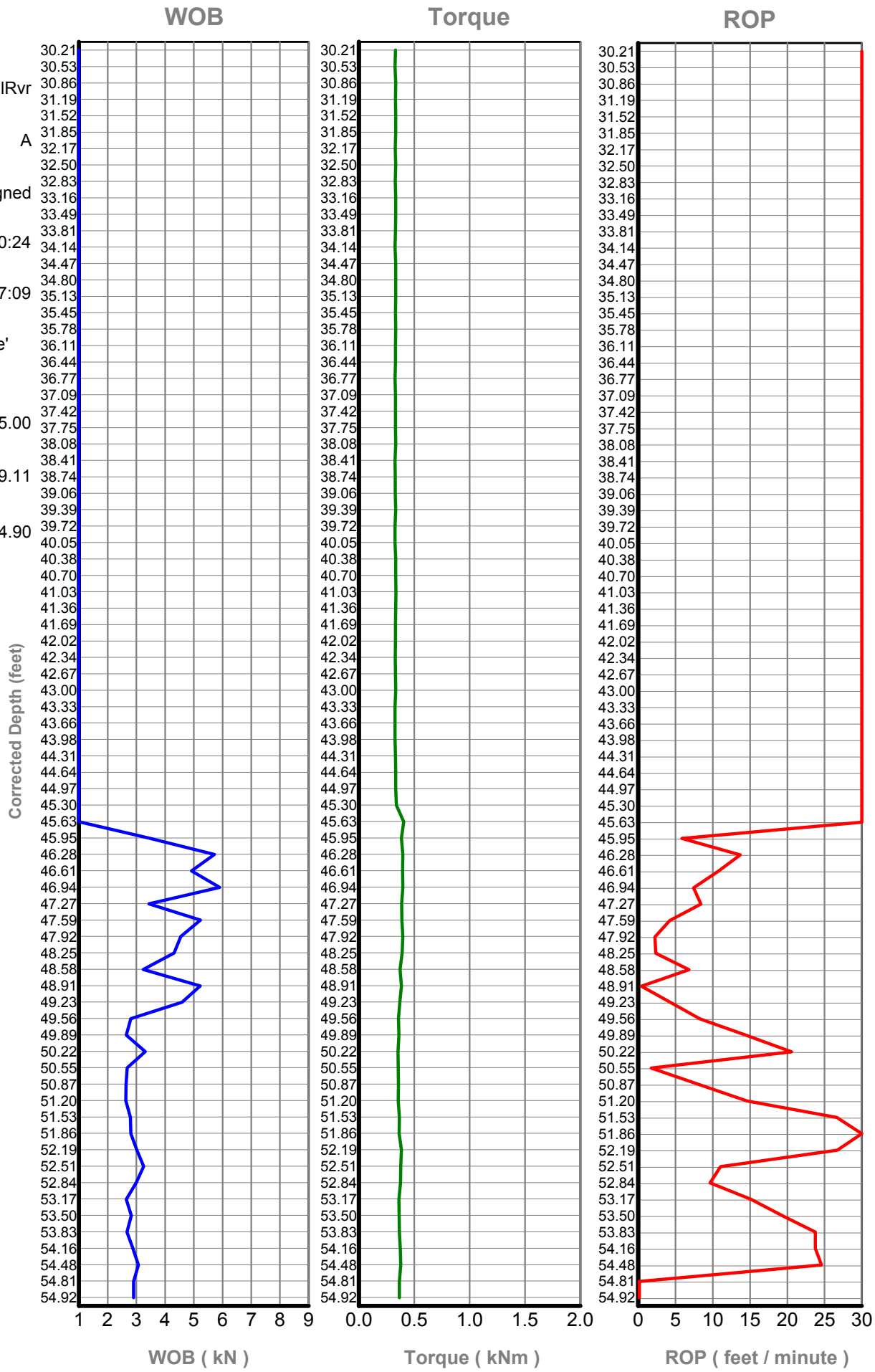
**End Date:**
4/24/2015 4:37:09

**Operator Note:**
'4.9 4.8 b Auto Complete'

**Northing:**
366,715.00

**Easting:**
251,579.11

**Tide (feet):**
4.90



## Hole: H447 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 4:41:33 | 35.11 | 30.11 | 894 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 4:41:33 | 35.43 | 30.43 | 894 | 0.22 | 0.32 | 48.9 |
| 4/24/2015 4:41:33 | 35.76 | 30.76 | 882 | 0.22 | 0.33 | 48.3 |
| 4/24/2015 4:41:34 | 36.09 | 31.09 | 893 | 0.22 | 0.33 | 48.8 |
| 4/24/2015 4:41:34 | 36.42 | 31.42 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 4:41:35 | 36.75 | 31.75 | 882 | 0.22 | 0.32 | 48.2 |
| 4/24/2015 4:41:35 | 37.07 | 32.07 | 885 | 0.19 | 0.32 | 48.4 |
| 4/24/2015 4:41:35 | 37.40 | 32.40 | 885 | 0.22 | 0.32 | 48.4 |
| 4/24/2015 4:41:36 | 37.73 | 32.73 | 893 | 0.22 | 0.32 | 48.8 |
| 4/24/2015 4:41:36 | 38.06 | 33.06 | 893 | 0.22 | 0.32 | 48.8 |
| 4/24/2015 4:41:36 | 38.39 | 33.39 | 888 | 0.22 | 0.32 | 48.5 |
| 4/24/2015 4:41:37 | 38.71 | 33.71 | 899 | 0.22 | 0.32 | 49.2 |
| 4/24/2015 4:41:37 | 39.04 | 34.04 | 891 | 0.23 | 0.32 | 48.7 |
| 4/24/2015 4:41:38 | 39.37 | 34.37 | 891 | 0.23 | 0.32 | 48.7 |
| 4/24/2015 4:41:38 | 39.70 | 34.70 | 902 | 0.22 | 0.33 | 49.3 |
| 4/24/2015 4:41:38 | 40.03 | 35.03 | 902 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 4:41:39 | 40.35 | 35.35 | 905 | 0.22 | 0.32 | 49.5 |
| 4/24/2015 4:41:40 | 40.68 | 35.68 | 896 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 4:41:40 | 41.01 | 36.01 | 896 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 4:41:40 | 41.34 | 36.34 | 905 | 0.22 | 0.32 | 49.5 |
| 4/24/2015 4:41:41 | 41.67 | 36.67 | 905 | 0.22 | 0.33 | 49.5 |
| 4/24/2015 4:41:41 | 41.99 | 36.99 | 897 | 0.22 | 0.33 | 49.1 |
| 4/24/2015 4:41:42 | 42.32 | 37.32 | 897 | 0.22 | 0.33 | 49.1 |
| 4/24/2015 4:41:42 | 42.65 | 37.65 | 897 | 0.21 | 0.32 | 49.0 |
| 4/24/2015 4:41:42 | 42.98 | 37.98 | 905 | 0.21 | 0.31 | 49.5 |
| 4/24/2015 4:41:43 | 43.31 | 38.31 | 902 | 0.22 | 0.33 | 49.3 |
| 4/24/2015 4:41:43 | 43.64 | 38.64 | 902 | 0.22 | 0.33 | 49.3 |
| 4/24/2015 4:41:43 | 43.96 | 38.96 | 899 | 0.21 | 0.32 | 49.2 |
| 4/24/2015 4:41:44 | 44.29 | 39.29 | 878 | 0.22 | 0.32 | 48.0 |
| 4/24/2015 4:41:44 | 44.62 | 39.62 | 878 | 0.21 | 0.32 | 48.0 |
| 4/24/2015 4:41:45 | 44.95 | 39.95 | 878 | 0.21 | 0.32 | 48.0 |
| 4/24/2015 4:41:45 | 45.28 | 40.28 | 896 | 0.21 | 0.33 | 49.0 |
| 4/24/2015 4:41:45 | 45.60 | 40.60 | 888 | 0.22 | 0.33 | 48.5 |
| 4/24/2015 4:41:46 | 45.93 | 40.93 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:41:46 | 46.26 | 41.26 | 885 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:41:46 | 46.59 | 41.59 | 884 | 0.22 | 0.33 | 48.4 |
| 4/24/2015 4:41:47 | 46.92 | 41.92 | 911 | 0.22 | 0.32 | 49.8 |
| 4/24/2015 4:41:47 | 47.24 | 42.24 | 896 | 0.22 | 0.32 | 49.0 |
| 4/24/2015 4:41:48 | 47.57 | 42.57 | 893 | 0.50 | 0.32 | 48.8 |
| 4/24/2015 4:41:48 | 47.90 | 42.90 | 893 | 0.50 | 0.32 | 48.8 |
| 4/24/2015 4:41:49 | 48.23 | 43.23 | 902 | 0.22 | 0.32 | 49.3 |
| 4/24/2015 4:41:49 | 48.56 | 43.56 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 4:41:49 | 48.88 | 43.88 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 4:41:50 | 49.21 | 44.21 | 870 | 0.22 | 0.33 | 47.6 |
| 4/24/2015 4:41:50 | 49.54 | 44.54 | 892 | 0.20 | 0.36 | 48.8 |
| 4/24/2015 4:42:12 | 49.87 | 44.87 | 40 | 3.71 | 0.36 | 2.2 |
| 4/24/2015 4:42:13 | 50.20 | 45.20 | 140 | 2.88 | 0.35 | 7.7 |
| 4/24/2015 4:42:13 | 50.53 | 45.53 | 251 | 2.48 | 0.34 | 13.7 |
| 4/24/2015 4:42:14 | 50.85 | 45.85 | 393 | 2.91 | 0.35 | 21.5 |
| 4/24/2015 4:42:15 | 51.18 | 46.18 | 554 | 4.09 | 0.37 | 30.3 |
| 4/24/2015 4:42:16 | 51.51 | 46.51 | 539 | 4.51 | 0.37 | 29.5 |
| 4/24/2015 4:42:17 | 51.84 | 46.84 | 422 | 5.21 | 0.37 | 23.1 |
| 4/24/2015 4:42:18 | 52.17 | 47.17 | 357 | 6.44 | 0.38 | 19.5 |
| 4/24/2015 4:42:20 | 52.49 | 47.49 | 251 | 4.45 | 0.39 | 13.7 |
| 4/24/2015 4:42:22 | 52.82 | 47.82 | 165 | 3.84 | 0.39 | 9.0 |
| 4/24/2015 4:42:25 | 53.15 | 48.15 | 119 | 3.62 | 0.39 | 6.5 |
| 4/24/2015 4:42:34 | 53.48 | 48.48 | 52 | 3.63 | 0.39 | 2.9 |
| 4/24/2015 4:42:47 | 53.81 | 48.81 | 0 | 3.41 | 0.38 | 0.0 |
| 4/24/2015 4:42:50 | 54.13 | 49.13 | 84 | 3.42 | 0.39 | 4.6 |
| 4/24/2015 4:42:55 | 54.46 | 49.46 | 84 | 3.80 | 0.39 | 4.6 |
| 4/24/2015 4:42:58 | 54.79 | 49.79 | 90 | 3.44 | 0.39 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 4:43:02 | 55.12 | 50.12 | 87 | 3.79 | 0.39 | 4.8 |
| 4/24/2015 | 4:43:07 | 55.45 | 50.45 | 87 | 3.46 | 0.40 | 4.7 |
| 4/24/2015 | 4:43:11 | 55.77 | 50.77 | 69 | 3.74 | 0.39 | 3.8 |
| 4/24/2015 | 4:43:16 | 56.10 | 51.10 | 72 | 3.65 | 0.39 | 3.9 |
| 4/24/2015 | 4:43:21 | 56.43 | 51.43 | 71 | 3.86 | 0.39 | 3.9 |
| 4/24/2015 | 4:43:26 | 56.76 | 51.76 | 85 | 3.95 | 0.40 | 4.6 |
| 4/24/2015 | 4:43:29 | 57.09 | 52.09 | 96 | 4.12 | 0.38 | 5.2 |
| 4/24/2015 | 4:43:42 | 57.41 | 52.41 | 32 | 4.22 | 0.40 | 1.7 |
| 4/24/2015 | 4:43:48 | 57.74 | 52.74 | 69 | 4.24 | 0.40 | 3.8 |
| 4/24/2015 | 4:43:52 | 58.07 | 53.07 | 70 | 3.79 | 0.39 | 3.9 |
| 4/24/2015 | 4:43:57 | 58.40 | 53.40 | 72 | 3.92 | 0.40 | 4.0 |
| 4/24/2015 | 4:44:02 | 58.73 | 53.73 | 87 | 3.83 | 0.38 | 4.7 |
| 4/24/2015 | 4:44:06 | 59.06 | 54.06 | 84 | 4.00 | 0.39 | 4.6 |
| 4/24/2015 | 4:44:10 | 59.38 | 54.38 | 87 | 3.51 | 0.39 | 4.7 |
| 4/24/2015 | 4:44:14 | 59.71 | 54.71 | 78 | 3.53 | 0.40 | 4.2 |
| 4/24/2015 | 4:44:18 | 59.99 | 54.99 | 73 | 4.07 | 0.40 | 4.0 |

## H447 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 4:38:43

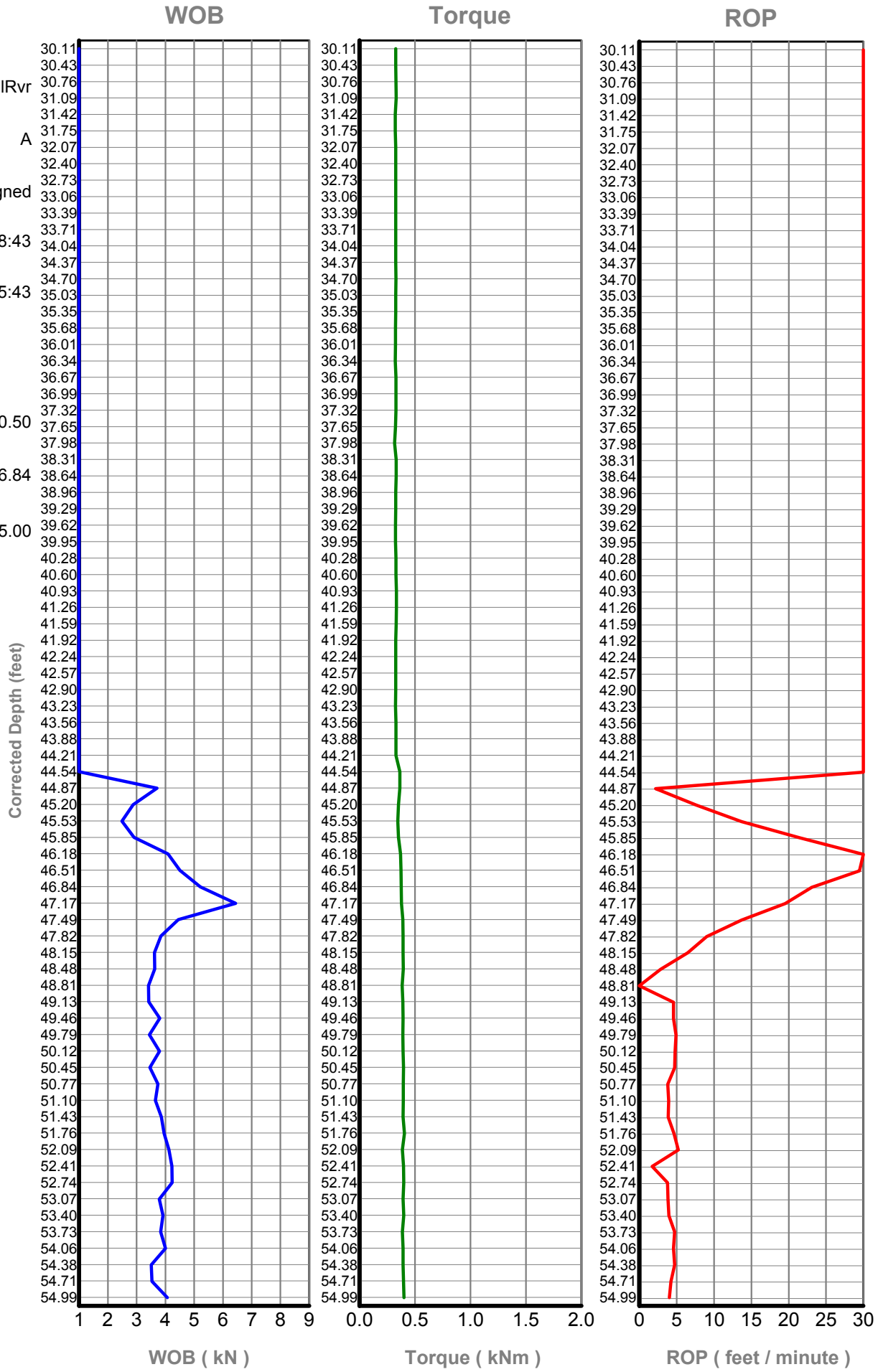
**End Date:**
4/24/2015 4:45:43

**Operator Note:**
'5 4.9 b Auto Complete'

**Northing:**
366,750.50

**Easting:**
251,626.84

**Tide (feet):**
5.00



## Hole: H448 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 4:33:57 | 35.11 | 30.21 | 551 | 2.04 | 0.18 | 30.1 |
| 4/24/2015 4:33:58 | 35.43 | 30.53 | 563 | 2.02 | 0.18 | 30.8 |
| 4/24/2015 4:33:59 | 35.76 | 30.86 | 553 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 4:33:59 | 36.09 | 31.19 | 553 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 4:34:00 | 36.42 | 31.52 | 552 | 2.00 | 0.18 | 30.2 |
| 4/24/2015 4:34:00 | 36.75 | 31.85 | 552 | 2.04 | 0.18 | 30.2 |
| 4/24/2015 4:34:01 | 37.07 | 32.17 | 537 | 1.99 | 0.18 | 29.4 |
| 4/24/2015 4:34:02 | 37.40 | 32.50 | 537 | 2.00 | 0.18 | 29.4 |
| 4/24/2015 4:34:02 | 37.73 | 32.83 | 544 | 2.00 | 0.18 | 29.8 |
| 4/24/2015 4:34:03 | 38.06 | 33.16 | 545 | 2.04 | 0.18 | 29.8 |
| 4/24/2015 4:34:04 | 38.39 | 33.49 | 548 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 4:34:04 | 38.71 | 33.81 | 559 | 2.03 | 0.18 | 30.6 |
| 4/24/2015 4:34:05 | 39.04 | 34.14 | 552 | 2.06 | 0.18 | 30.2 |
| 4/24/2015 4:34:05 | 39.37 | 34.47 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:06 | 39.70 | 34.80 | 552 | 2.01 | 0.18 | 30.2 |
| 4/24/2015 4:34:07 | 40.03 | 35.13 | 555 | 2.00 | 0.18 | 30.3 |
| 4/24/2015 4:34:08 | 40.35 | 35.45 | 549 | 2.01 | 0.18 | 30.0 |
| 4/24/2015 4:34:08 | 40.68 | 35.78 | 552 | 2.03 | 0.18 | 30.2 |
| 4/24/2015 4:34:09 | 41.01 | 36.11 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:10 | 41.34 | 36.44 | 549 | 2.04 | 0.18 | 30.0 |
| 4/24/2015 4:34:10 | 41.67 | 36.77 | 555 | 2.00 | 0.18 | 30.4 |
| 4/24/2015 4:34:11 | 41.99 | 37.09 | 543 | 2.11 | 0.18 | 29.7 |
| 4/24/2015 4:34:12 | 42.32 | 37.42 | 545 | 2.04 | 0.18 | 29.8 |
| 4/24/2015 4:34:12 | 42.65 | 37.75 | 539 | 2.02 | 0.18 | 29.5 |
| 4/24/2015 4:34:13 | 42.98 | 38.08 | 539 | 2.00 | 0.18 | 29.5 |
| 4/24/2015 4:34:13 | 43.31 | 38.41 | 544 | 2.02 | 0.18 | 29.8 |
| 4/24/2015 4:34:14 | 43.64 | 38.74 | 553 | 2.04 | 0.18 | 30.3 |
| 4/24/2015 4:34:15 | 43.96 | 39.06 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:15 | 44.29 | 39.39 | 555 | 2.03 | 0.18 | 30.3 |
| 4/24/2015 4:34:16 | 44.62 | 39.72 | 549 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:17 | 44.95 | 40.05 | 549 | 2.03 | 0.18 | 30.0 |
| 4/24/2015 4:34:18 | 45.28 | 40.38 | 552 | 1.99 | 0.18 | 30.2 |
| 4/24/2015 4:34:18 | 45.60 | 40.70 | 546 | 2.03 | 0.18 | 29.9 |
| 4/24/2015 4:34:19 | 45.93 | 41.03 | 546 | 2.00 | 0.18 | 29.9 |
| 4/24/2015 4:34:20 | 46.26 | 41.36 | 548 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:20 | 46.59 | 41.69 | 548 | 2.02 | 0.18 | 30.0 |
| 4/24/2015 4:34:21 | 46.92 | 42.02 | 533 | 2.05 | 0.18 | 29.2 |
| 4/24/2015 4:34:21 | 47.24 | 42.34 | 543 | 2.02 | 0.26 | 29.7 |
| 4/24/2015 4:34:22 | 47.57 | 42.67 | 543 | 2.04 | 0.18 | 29.7 |
| 4/24/2015 4:34:23 | 47.90 | 43.00 | 546 | 2.02 | 0.18 | 29.9 |
| 4/24/2015 4:34:23 | 48.23 | 43.33 | 546 | 2.00 | 0.18 | 29.9 |
| 4/24/2015 4:34:24 | 48.56 | 43.66 | 561 | 2.00 | 0.18 | 30.7 |
| 4/24/2015 4:34:24 | 48.88 | 43.98 | 557 | 2.00 | 0.18 | 30.5 |
| 4/24/2015 4:34:25 | 49.21 | 44.31 | 549 | 2.04 | 0.18 | 30.0 |
| 4/24/2015 4:34:26 | 49.54 | 44.64 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 4:34:26 | 49.87 | 44.97 | 552 | 2.01 | 0.18 | 30.2 |
| 4/24/2015 4:34:27 | 50.20 | 45.30 | 552 | 2.02 | 0.18 | 30.2 |
| 4/24/2015 4:34:28 | 50.53 | 45.63 | 552 | 2.01 | 0.18 | 30.2 |
| 4/24/2015 4:34:43 | 50.85 | 45.95 | 71 | 1.89 | 1.21 | 3.9 |
| 4/24/2015 4:34:55 | 51.18 | 46.28 | 23 | 2.05 | 1.33 | 1.2 |
| 4/24/2015 4:34:57 | 51.51 | 46.61 | 121 | 2.04 | 1.33 | 6.6 |
| 4/24/2015 4:35:01 | 51.84 | 46.94 | 106 | 2.01 | 1.35 | 5.8 |
| 4/24/2015 4:35:04 | 52.17 | 47.27 | 81 | 2.04 | 1.36 | 4.4 |
| 4/24/2015 4:35:09 | 52.49 | 47.59 | 84 | 2.04 | 1.36 | 4.6 |
| 4/24/2015 4:35:11 | 52.82 | 47.92 | 147 | 2.02 | 1.16 | 8.1 |
| 4/24/2015 4:35:22 | 53.15 | 48.25 | 0 | 2.05 | 1.12 | 0.0 |
| 4/24/2015 4:35:23 | 53.48 | 48.58 | 159 | 2.04 | 1.32 | 8.7 |
| 4/24/2015 4:35:33 | 53.81 | 48.91 | 26 | 2.04 | 1.19 | 1.4 |
| 4/24/2015 4:35:46 | 54.13 | 49.23 | 26 | 2.02 | 1.25 | 1.4 |
| 4/24/2015 4:35:54 | 54.46 | 49.56 | 49 | 2.03 | 1.39 | 2.7 |
| 4/24/2015 4:35:56 | 54.79 | 49.89 | 150 | 2.02 | 1.19 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 4:36:05 | 55.12 | 50.22 | 67 | 2.02 | 1.57 | 3.7 |
| 4/24/2015 | 4:36:08 | 55.45 | 50.55 | 145 | 2.00 | 1.23 | 7.9 |
| 4/24/2015 | 4:36:09 | 55.77 | 50.87 | 197 | 2.04 | 1.58 | 10.7 |
| 4/24/2015 | 4:36:29 | 56.10 | 51.20 | 81 | 2.00 | 1.58 | 4.4 |
| 4/24/2015 | 4:36:36 | 56.43 | 51.53 | 80 | 2.01 | 1.27 | 4.4 |
| 4/24/2015 | 4:36:41 | 56.76 | 51.86 | 64 | 2.02 | 1.23 | 3.5 |
| 4/24/2015 | 4:36:49 | 57.09 | 52.19 | 38 | 2.03 | 1.25 | 2.1 |
| 4/24/2015 | 4:37:01 | 57.41 | 52.51 | 25 | 2.02 | 1.13 | 1.3 |
| 4/24/2015 | 4:37:10 | 57.70 | 52.80 | 32 | 2.03 | 1.21 | 1.7 |

## H448 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 4:30:47

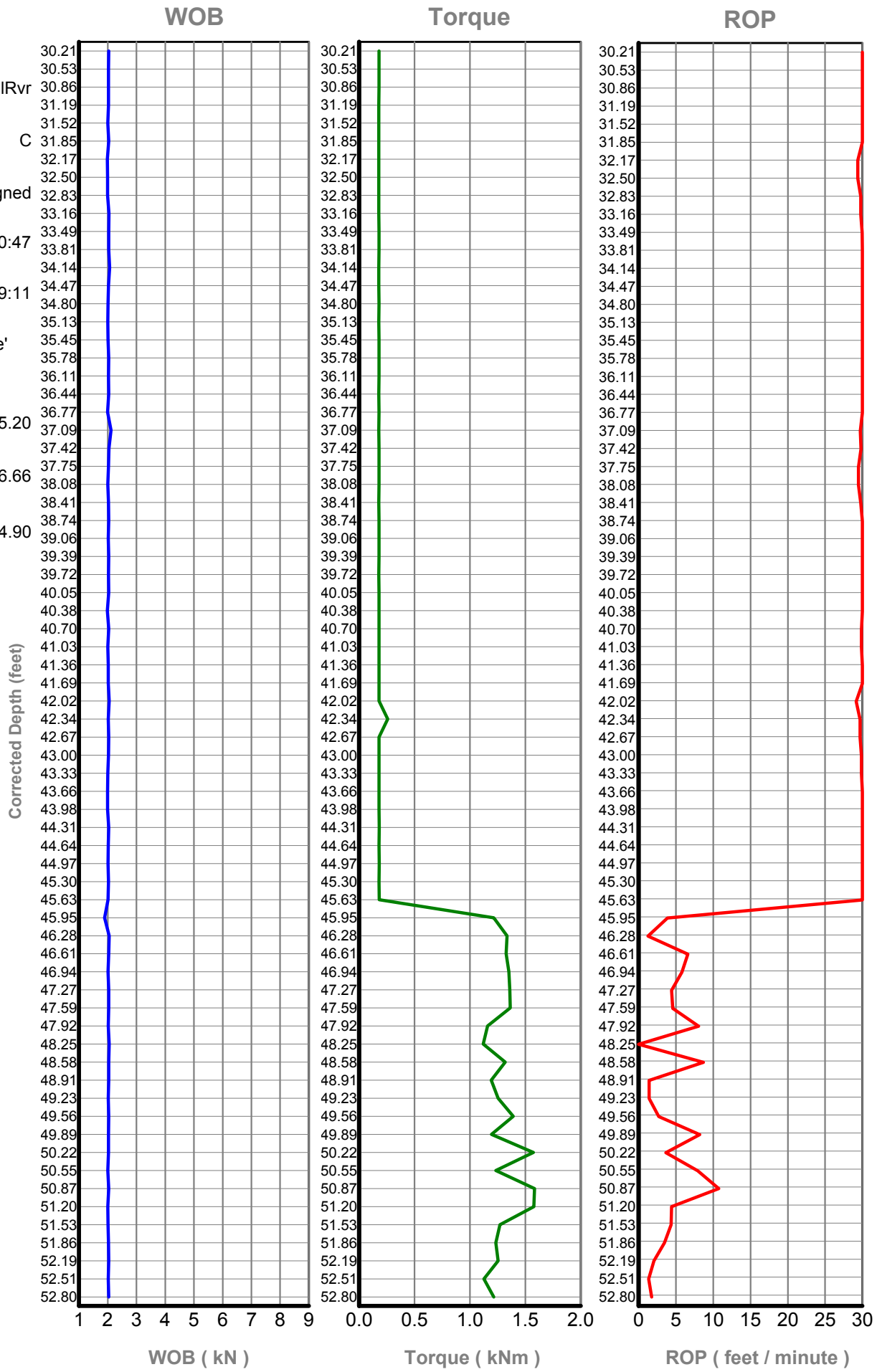
**End Date:**
4/24/2015 4:39:11

**Operator Note:**
'4.9 4.9 c Auto Complete'

**Northing:**
366,795.20

**Easting:**
251,686.66

**Tide (feet):**
4.90



## Hole: H449 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:06:39 | 34.12 | 30.12 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 15:06:39 | 34.45 | 30.45 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 15:06:39 | 34.78 | 30.78 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 15:06:40 | 35.11 | 31.11 | 954 | 0.33 | 0.33 | 52.2 |
| 4/23/2015 15:06:40 | 35.43 | 31.43 | 943 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 15:06:41 | 35.76 | 31.76 | 943 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 15:06:41 | 36.09 | 32.09 | 943 | 0.33 | 0.33 | 51.5 |
| 4/23/2015 15:06:41 | 36.42 | 32.42 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:06:42 | 36.75 | 32.75 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:06:42 | 37.07 | 33.07 | 940 | 0.34 | 0.32 | 51.4 |
| 4/23/2015 15:06:42 | 37.40 | 33.40 | 928 | 0.33 | 0.32 | 50.8 |
| 4/23/2015 15:06:43 | 37.73 | 33.73 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:06:44 | 38.06 | 34.06 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:06:44 | 38.39 | 34.39 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 15:06:44 | 38.71 | 34.71 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 15:06:45 | 39.04 | 35.04 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 15:06:45 | 39.37 | 35.37 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 15:06:45 | 39.70 | 35.70 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 15:06:46 | 40.03 | 36.03 | 946 | 0.35 | 0.32 | 51.7 |
| 4/23/2015 15:06:46 | 40.35 | 36.35 | 946 | 0.35 | 0.32 | 51.7 |
| 4/23/2015 15:06:46 | 40.68 | 36.68 | 967 | 0.33 | 0.32 | 52.9 |
| 4/23/2015 15:06:47 | 41.01 | 37.01 | 961 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 15:06:47 | 41.34 | 37.34 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:06:48 | 41.67 | 37.67 | 956 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 15:06:48 | 41.99 | 37.99 | 950 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 15:06:48 | 42.32 | 38.32 | 966 | 0.34 | 0.32 | 52.8 |
| 4/23/2015 15:06:49 | 42.65 | 38.65 | 966 | 0.34 | 0.32 | 52.8 |
| 4/23/2015 15:06:49 | 42.98 | 38.98 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 15:06:49 | 43.31 | 39.31 | 957 | 0.34 | 0.32 | 52.3 |
| 4/23/2015 15:06:50 | 43.64 | 39.64 | 960 | 0.34 | 0.32 | 52.5 |
| 4/23/2015 15:06:50 | 43.96 | 39.96 | 960 | 0.34 | 0.32 | 52.5 |
| 4/23/2015 15:06:50 | 44.29 | 40.29 | 966 | 0.46 | 0.32 | 52.8 |
| 4/23/2015 15:06:51 | 44.62 | 40.62 | 957 | 0.45 | 0.33 | 52.3 |
| 4/23/2015 15:06:51 | 44.95 | 40.95 | 948 | 0.45 | 0.33 | 51.8 |
| 4/23/2015 15:06:52 | 45.28 | 41.28 | 948 | 0.45 | 0.33 | 51.8 |
| 4/23/2015 15:06:52 | 45.60 | 41.60 | 928 | 0.44 | 0.32 | 50.7 |
| 4/23/2015 15:06:52 | 45.93 | 41.93 | 925 | 0.43 | 0.33 | 50.6 |
| 4/23/2015 15:06:53 | 46.26 | 42.26 | 908 | 0.44 | 0.33 | 49.6 |
| 4/23/2015 15:06:53 | 46.59 | 42.59 | 908 | 0.44 | 0.33 | 49.6 |
| 4/23/2015 15:06:53 | 46.92 | 42.92 | 905 | 0.43 | 0.32 | 49.5 |
| 4/23/2015 15:06:54 | 47.24 | 43.24 | 905 | 0.44 | 0.33 | 49.5 |
| 4/23/2015 15:06:55 | 47.57 | 43.57 | 908 | 0.43 | 0.33 | 49.6 |
| 4/23/2015 15:06:55 | 47.90 | 43.90 | 908 | 0.43 | 0.33 | 49.6 |
| 4/23/2015 15:06:55 | 48.23 | 44.23 | 905 | 0.43 | 0.33 | 49.5 |
| 4/23/2015 15:06:56 | 48.56 | 44.56 | 905 | 0.34 | 0.32 | 49.5 |
| 4/23/2015 15:06:56 | 48.88 | 44.88 | 891 | 0.29 | 0.37 | 48.7 |
| 4/23/2015 15:07:06 | 49.21 | 45.21 | 59 | 4.36 | 0.38 | 3.2 |
| 4/23/2015 15:07:11 | 49.54 | 45.54 | 84 | 8.13 | 0.38 | 4.6 |
| 4/23/2015 15:07:17 | 49.87 | 45.87 | 89 | 4.10 | 0.39 | 4.9 |
| 4/23/2015 15:07:18 | 50.20 | 46.20 | 172 | 2.90 | 0.36 | 9.4 |
| 4/23/2015 15:07:19 | 50.53 | 46.53 | 266 | 4.59 | 0.37 | 14.5 |
| 4/23/2015 15:07:20 | 50.85 | 46.85 | 318 | 4.03 | 0.37 | 17.4 |
| 4/23/2015 15:07:21 | 51.18 | 47.18 | 398 | 4.55 | 0.37 | 21.7 |
| 4/23/2015 15:07:21 | 51.51 | 47.51 | 439 | 3.10 | 0.37 | 24.0 |
| 4/23/2015 15:07:22 | 51.84 | 47.84 | 419 | 3.41 | 0.37 | 22.9 |
| 4/23/2015 15:07:23 | 52.17 | 48.17 | 379 | 3.65 | 0.37 | 20.7 |
| 4/23/2015 15:07:26 | 52.49 | 48.49 | 249 | 4.01 | 0.39 | 13.6 |
| 4/23/2015 15:07:28 | 52.82 | 48.82 | 164 | 3.72 | 0.39 | 9.0 |
| 4/23/2015 15:07:30 | 53.15 | 49.15 | 161 | 3.15 | 0.39 | 8.8 |
| 4/23/2015 15:07:32 | 53.48 | 49.48 | 167 | 3.71 | 0.39 | 9.1 |
| 4/23/2015 15:07:36 | 53.81 | 49.81 | 98 | 4.29 | 0.39 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:07:39 | 54.13 | 50.13 | 95 | 4.07 | 0.40 | 5.2 |
| 4/23/2015 | 15:07:43 | 54.46 | 50.46 | 89 | 4.03 | 0.40 | 4.9 |
| 4/23/2015 | 15:07:49 | 54.79 | 50.79 | 64 | 3.54 | 0.40 | 3.5 |
| 4/23/2015 | 15:07:54 | 55.12 | 51.12 | 62 | 3.43 | 0.40 | 3.4 |
| 4/23/2015 | 15:08:00 | 55.45 | 51.45 | 65 | 3.62 | 0.40 | 3.6 |
| 4/23/2015 | 15:08:05 | 55.77 | 51.77 | 75 | 3.71 | 0.40 | 4.1 |
| 4/23/2015 | 15:08:05 | 55.81 | 51.81 | 75 | 3.71 | 0.40 | 4.1 |

## H449 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:04:47

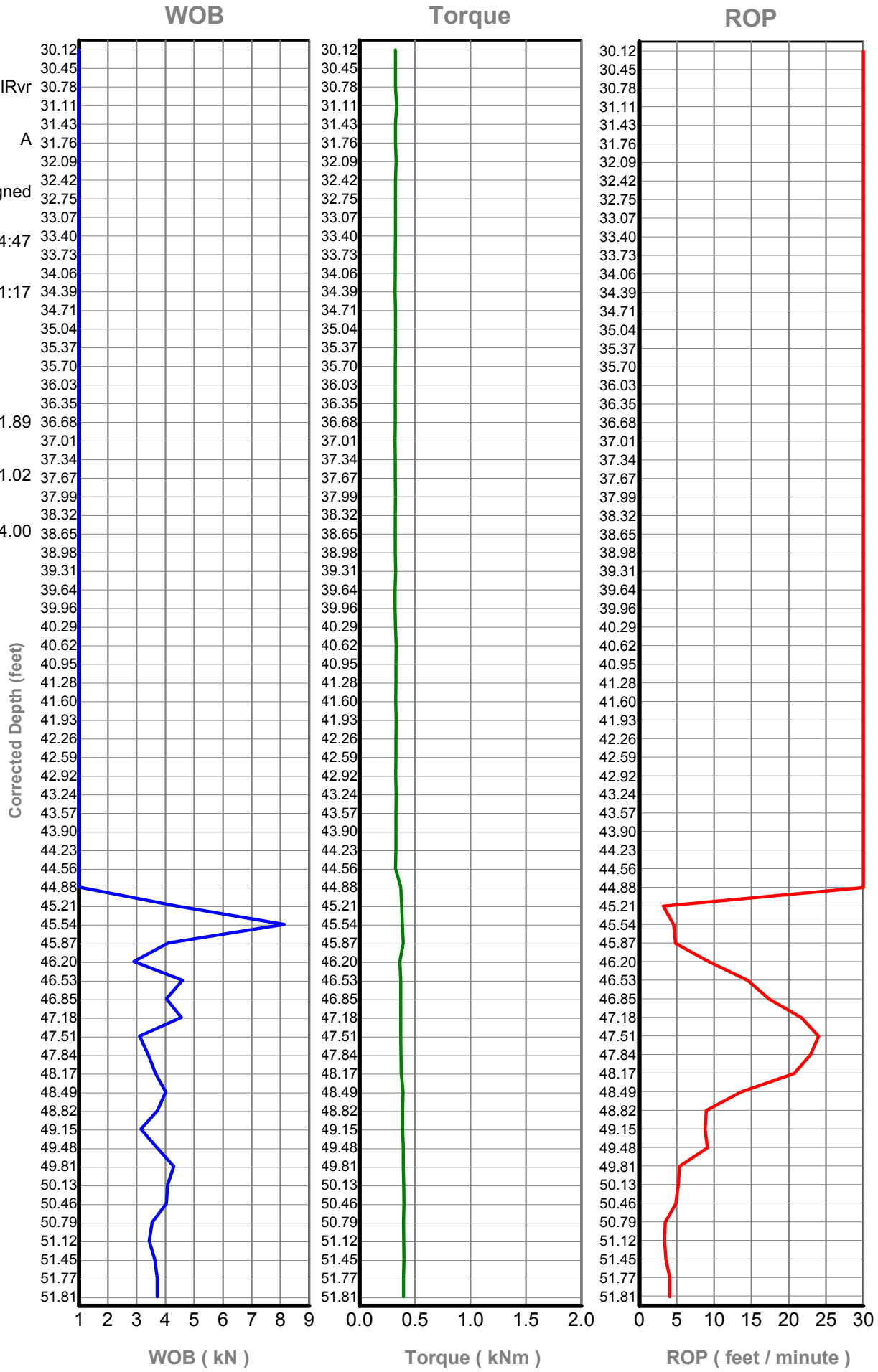
**End Date:**
4/23/2015 15:21:17

**Operator Note:**
'4 3.8 b Auto Complete'

**Northing:**
366,861.89

**Easting:**
251,761.02

**Tide (feet):**
4.00



## Hole: H45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 8:55:36 | 36.09 | 30.19 | 595 | 1.77 | 0.30 | 32.6 |
| 4/27/2015 8:55:37 | 36.42 | 30.52 | 595 | 1.77 | 0.30 | 32.5 |
| 4/27/2015 8:55:38 | 36.75 | 30.85 | 599 | 1.77 | 0.30 | 32.8 |
| 4/27/2015 8:55:38 | 37.07 | 31.17 | 596 | 1.76 | 0.30 | 32.6 |
| 4/27/2015 8:55:39 | 37.40 | 31.50 | 599 | 1.74 | 0.33 | 32.8 |
| 4/27/2015 8:55:39 | 37.73 | 31.83 | 593 | 1.76 | 0.31 | 32.4 |
| 4/27/2015 8:55:40 | 38.06 | 32.16 | 603 | 1.77 | 0.60 | 33.0 |
| 4/27/2015 8:55:40 | 38.39 | 32.49 | 595 | 1.74 | 0.73 | 32.6 |
| 4/27/2015 8:55:41 | 38.71 | 32.81 | 583 | 1.77 | 0.89 | 31.9 |
| 4/27/2015 8:55:42 | 39.04 | 33.14 | 583 | 1.77 | 0.86 | 31.9 |
| 4/27/2015 8:55:42 | 39.37 | 33.47 | 592 | 1.76 | 0.30 | 32.4 |
| 4/27/2015 8:55:43 | 39.70 | 33.80 | 588 | 1.79 | 0.30 | 32.2 |
| 4/27/2015 8:55:43 | 40.03 | 34.13 | 585 | 1.77 | 0.30 | 32.0 |
| 4/27/2015 8:55:44 | 40.35 | 34.45 | 592 | 1.74 | 0.30 | 32.4 |
| 4/27/2015 8:55:44 | 40.68 | 34.78 | 586 | 1.76 | 0.30 | 32.1 |
| 4/27/2015 8:55:46 | 41.01 | 35.11 | 589 | 1.74 | 0.30 | 32.2 |
| 4/27/2015 8:55:47 | 41.34 | 35.44 | 592 | 1.78 | 0.30 | 32.4 |
| 4/27/2015 8:55:48 | 41.67 | 35.77 | 592 | 1.78 | 0.30 | 32.4 |
| 4/27/2015 8:55:47 | 41.99 | 36.09 | 597 | 1.77 | 0.29 | 32.7 |
| 4/27/2015 8:55:48 | 42.32 | 36.42 | 580 | 1.76 | 0.29 | 31.7 |
| 4/27/2015 8:55:48 | 42.65 | 36.75 | 580 | 1.79 | 0.29 | 31.7 |
| 4/27/2015 8:55:49 | 42.98 | 37.08 | 593 | 1.76 | 0.30 | 32.4 |
| 4/27/2015 8:55:50 | 43.31 | 37.41 | 591 | 1.76 | 0.29 | 32.3 |
| 4/27/2015 8:55:50 | 43.64 | 37.74 | 576 | 1.77 | 0.29 | 31.5 |
| 4/27/2015 8:55:51 | 43.96 | 38.06 | 581 | 1.76 | 0.29 | 31.8 |
| 4/27/2015 8:55:51 | 44.29 | 38.39 | 581 | 1.80 | 0.31 | 31.8 |
| 4/27/2015 8:55:52 | 44.62 | 38.72 | 593 | 1.76 | 0.29 | 32.5 |
| 4/27/2015 8:55:53 | 44.95 | 39.05 | 589 | 1.78 | 0.29 | 32.2 |
| 4/27/2015 8:55:53 | 45.28 | 39.38 | 605 | 1.76 | 0.29 | 33.1 |
| 4/27/2015 8:55:54 | 45.60 | 39.70 | 598 | 1.79 | 0.29 | 32.7 |
| 4/27/2015 8:55:54 | 45.93 | 40.03 | 593 | 1.79 | 0.29 | 32.4 |
| 4/27/2015 8:55:55 | 46.26 | 40.36 | 593 | 1.77 | 0.29 | 32.4 |
| 4/27/2015 8:55:56 | 46.59 | 40.69 | 593 | 1.72 | 0.29 | 32.4 |
| 4/27/2015 8:55:56 | 46.92 | 41.02 | 589 | 1.79 | 0.29 | 32.2 |
| 4/27/2015 8:55:57 | 47.24 | 41.34 | 593 | 1.77 | 0.29 | 32.4 |
| 4/27/2015 8:55:58 | 47.57 | 41.67 | 590 | 1.79 | 0.29 | 32.2 |
| 4/27/2015 8:55:58 | 47.90 | 42.00 | 590 | 1.76 | 0.29 | 32.2 |
| 4/27/2015 8:55:59 | 48.23 | 42.33 | 593 | 1.75 | 0.29 | 32.4 |
| 4/27/2015 8:55:59 | 48.56 | 42.66 | 572 | 1.76 | 0.29 | 31.3 |
| 4/27/2015 8:56:00 | 48.88 | 42.98 | 572 | 1.76 | 0.29 | 31.3 |
| 4/27/2015 8:56:01 | 49.21 | 43.31 | 583 | 1.83 | 0.29 | 31.9 |
| 4/27/2015 8:56:01 | 49.54 | 43.64 | 583 | 1.77 | 0.29 | 31.9 |
| 4/27/2015 8:56:02 | 49.87 | 43.97 | 580 | 1.76 | 0.29 | 31.7 |
| 4/27/2015 8:56:02 | 50.20 | 44.30 | 595 | 1.76 | 0.29 | 32.5 |
| 4/27/2015 8:56:21 | 50.53 | 44.63 | 75 | 1.75 | 1.25 | 4.1 |
| 4/27/2015 8:56:22 | 50.85 | 44.95 | 155 | 1.72 | 1.19 | 8.5 |
| 4/27/2015 8:56:23 | 51.18 | 45.28 | 219 | 1.74 | 1.11 | 12.0 |
| 4/27/2015 8:56:25 | 51.51 | 45.61 | 263 | 1.75 | 1.12 | 14.4 |
| 4/27/2015 8:56:26 | 51.84 | 45.94 | 263 | 1.74 | 1.13 | 14.4 |
| 4/27/2015 8:56:28 | 52.17 | 46.27 | 275 | 1.83 | 1.21 | 15.0 |
| 4/27/2015 8:56:54 | 52.49 | 46.59 | 54 | 1.76 | 1.17 | 2.9 |
| 4/27/2015 8:56:55 | 52.82 | 46.92 | 162 | 1.74 | 1.24 | 8.9 |
| 4/27/2015 8:56:56 | 53.15 | 47.25 | 294 | 1.76 | 0.90 | 16.1 |
| 4/27/2015 8:56:58 | 53.48 | 47.58 | 363 | 1.74 | 0.97 | 19.8 |
| 4/27/2015 8:57:38 | 53.81 | 47.91 | 50 | 1.75 | 1.00 | 2.7 |
| 4/27/2015 8:57:40 | 54.13 | 48.23 | 194 | 1.74 | 1.12 | 10.6 |
| 4/27/2015 8:57:42 | 54.46 | 48.56 | 178 | 1.73 | 1.17 | 9.7 |
| 4/27/2015 8:57:44 | 54.79 | 48.89 | 170 | 1.76 | 1.08 | 9.3 |
| 4/27/2015 8:57:46 | 55.12 | 49.22 | 192 | 1.74 | 1.12 | 10.5 |
| 4/27/2015 8:57:48 | 55.45 | 49.55 | 163 | 1.76 | 1.14 | 8.9 |
| 4/27/2015 8:58:28 | 55.77 | 49.87 | 79 | 1.77 | 1.11 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 8:58:30 | 56.10 | 50.20 | 165 | 1.77 | 1.09 | 9.0 |
| 4/27/2015 | 8:58:32 | 56.43 | 50.53 | 195 | 1.80 | 1.14 | 10.6 |
| 4/27/2015 | 8:58:35 | 56.76 | 50.86 | 131 | 1.76 | 1.12 | 7.2 |
| 4/27/2015 | 8:58:38 | 57.09 | 51.19 | 118 | 1.77 | 1.12 | 6.5 |
| 4/27/2015 | 8:59:31 | 57.41 | 51.51 | 92 | 1.74 | 1.14 | 5.1 |
| 4/27/2015 | 8:59:33 | 57.74 | 51.84 | 176 | 1.76 | 1.11 | 9.6 |
| 4/27/2015 | 8:59:36 | 58.07 | 52.17 | 153 | 1.76 | 1.16 | 8.4 |
| 4/27/2015 | 8:59:38 | 58.40 | 52.50 | 153 | 1.77 | 1.14 | 8.4 |
| 4/27/2015 | 8:59:40 | 58.73 | 52.83 | 168 | 1.74 | 1.11 | 9.2 |
| 4/27/2015 | 8:59:42 | 59.06 | 53.16 | 167 | 1.79 | 1.17 | 9.2 |
| 4/27/2015 | 8:59:50 | 59.38 | 53.48 | 35 | 1.79 | 1.05 | 1.9 |
| 4/27/2015 | 9:00:01 | 59.71 | 53.81 | 35 | 1.79 | 1.12 | 1.9 |
| 4/27/2015 | 9:00:11 | 60.04 | 54.14 | 31 | 1.78 | 1.01 | 1.7 |
| 4/27/2015 | 9:00:19 | 60.37 | 54.47 | 66 | 1.76 | 1.13 | 3.6 |
| 4/27/2015 | 9:00:21 | 60.53 | 54.63 | 72 | 1.78 | 1.12 | 4.0 |

## H45 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 8:53:53

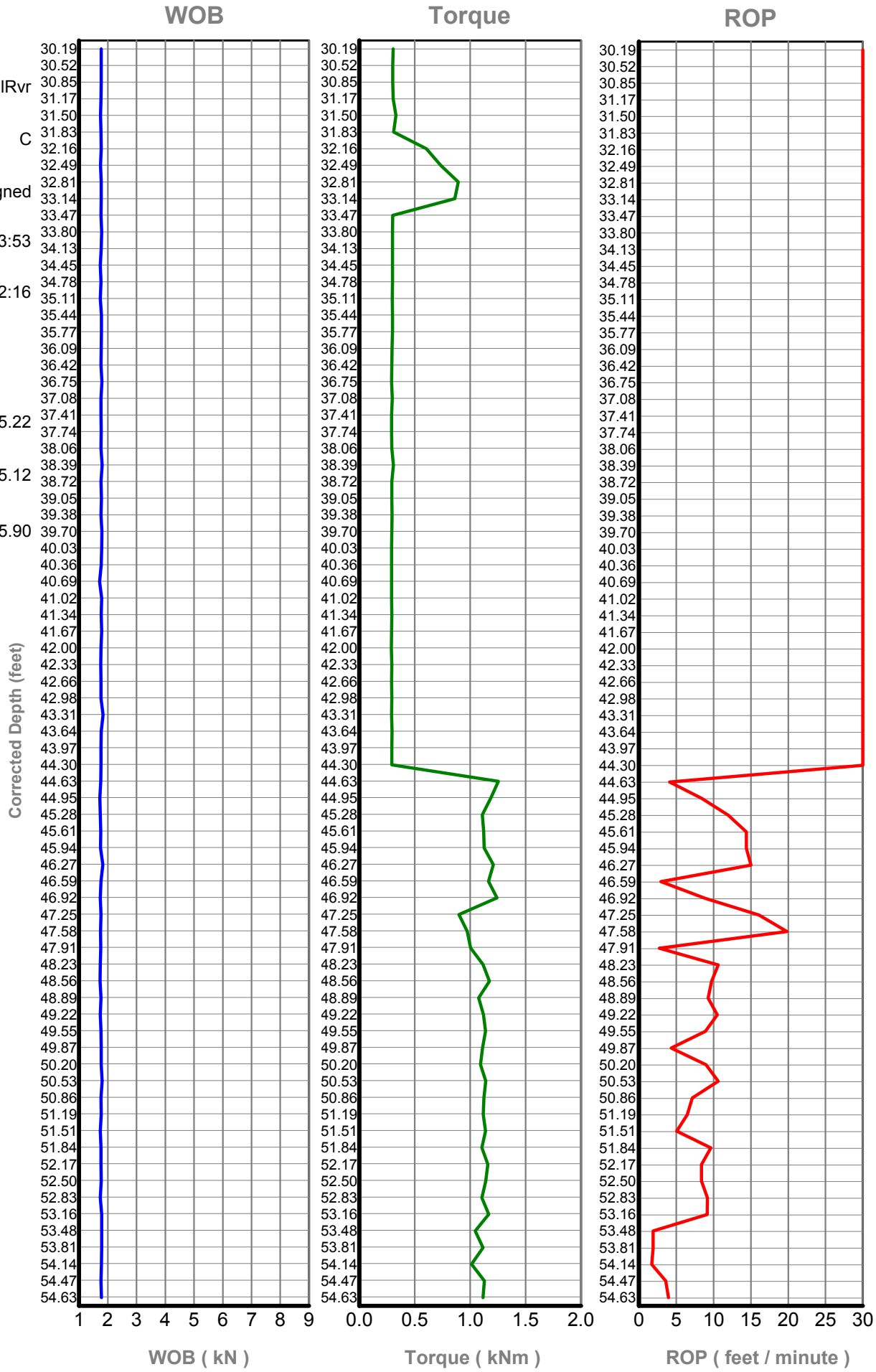
**End Date:**
4/27/2015 9:02:16

**Operator Note:**
'5.9 6,0 C Auto Complete'

**Northing:**
365,635.22

**Easting:**
249,165.12

**Tide (feet):**
5.90



## Hole: H450 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:01:07 | 34.12 | 30.32 | 916 | 0.31 | 0.32 | 50.1 |
| 4/23/2015 15:01:07 | 34.45 | 30.65 | 916 | 0.32 | 0.32 | 50.1 |
| 4/23/2015 15:01:07 | 34.78 | 30.98 | 924 | 0.31 | 0.32 | 50.5 |
| 4/23/2015 15:01:08 | 35.11 | 31.31 | 924 | 0.31 | 0.32 | 50.5 |
| 4/23/2015 15:01:08 | 35.43 | 31.63 | 924 | 0.31 | 0.32 | 50.5 |
| 4/23/2015 15:01:08 | 35.76 | 31.96 | 921 | 0.31 | 0.32 | 50.4 |
| 4/23/2015 15:01:09 | 36.09 | 32.29 | 929 | 0.31 | 0.32 | 50.8 |
| 4/23/2015 15:01:09 | 36.42 | 32.62 | 939 | 0.31 | 0.32 | 51.4 |
| 4/23/2015 15:01:10 | 36.75 | 32.95 | 939 | 0.31 | 0.32 | 51.4 |
| 4/23/2015 15:01:10 | 37.07 | 33.27 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 15:01:11 | 37.40 | 33.60 | 925 | 0.31 | 0.32 | 50.6 |
| 4/23/2015 15:01:11 | 37.73 | 33.93 | 925 | 0.32 | 0.32 | 50.6 |
| 4/23/2015 15:01:12 | 38.06 | 34.26 | 925 | 0.32 | 0.32 | 50.6 |
| 4/23/2015 15:01:12 | 38.39 | 34.59 | 922 | 0.32 | 0.32 | 50.4 |
| 4/23/2015 15:01:12 | 38.71 | 34.91 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:13 | 39.04 | 35.24 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:13 | 39.37 | 35.57 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:13 | 39.70 | 35.90 | 937 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 15:01:14 | 40.03 | 36.23 | 942 | 0.31 | 0.32 | 51.5 |
| 4/23/2015 15:01:14 | 40.35 | 36.55 | 942 | 0.31 | 0.32 | 51.5 |
| 4/23/2015 15:01:14 | 40.68 | 36.88 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 15:01:15 | 41.01 | 37.21 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 15:01:15 | 41.34 | 37.54 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:16 | 41.67 | 37.87 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:16 | 41.99 | 38.19 | 928 | 0.31 | 0.32 | 50.8 |
| 4/23/2015 15:01:16 | 42.32 | 38.52 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 15:01:17 | 42.65 | 38.85 | 925 | 0.31 | 0.32 | 50.6 |
| 4/23/2015 15:01:17 | 42.98 | 39.18 | 925 | 0.31 | 0.32 | 50.6 |
| 4/23/2015 15:01:17 | 43.31 | 39.51 | 928 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 15:01:18 | 43.64 | 39.84 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:18 | 43.96 | 40.16 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:18 | 44.29 | 40.49 | 937 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 15:01:19 | 44.62 | 40.82 | 937 | 0.32 | 0.31 | 51.2 |
| 4/23/2015 15:01:19 | 44.95 | 41.15 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 15:01:20 | 45.28 | 41.48 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 15:01:20 | 45.60 | 41.80 | 937 | 0.31 | 0.32 | 51.2 |
| 4/23/2015 15:01:21 | 45.93 | 42.13 | 939 | 0.32 | 0.32 | 51.4 |
| 4/23/2015 15:01:21 | 46.26 | 42.46 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:01:22 | 46.59 | 42.79 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 15:01:22 | 46.92 | 43.12 | 934 | 0.32 | 0.32 | 51.1 |
| 4/23/2015 15:01:22 | 47.24 | 43.44 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 15:01:23 | 47.57 | 43.77 | 936 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 15:01:23 | 47.90 | 44.10 | 936 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 15:01:23 | 48.23 | 44.43 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 15:01:24 | 48.56 | 44.76 | 933 | 0.31 | 0.32 | 51.0 |
| 4/23/2015 15:01:24 | 48.88 | 45.08 | 922 | 0.31 | 0.36 | 50.4 |
| 4/23/2015 15:01:35 | 49.21 | 45.41 | 0 | 2.78 | 0.33 | 0.0 |
| 4/23/2015 15:01:36 | 49.54 | 45.74 | 151 | 5.02 | 0.39 | 8.3 |
| 4/23/2015 15:01:37 | 49.87 | 46.07 | 220 | 4.41 | 0.36 | 12.1 |
| 4/23/2015 15:01:38 | 50.20 | 46.40 | 344 | 3.96 | 0.37 | 18.8 |
| 4/23/2015 15:01:48 | 50.53 | 46.73 | 17 | 7.13 | 0.38 | 0.9 |
| 4/23/2015 15:01:49 | 50.85 | 47.05 | 110 | 5.43 | 0.38 | 6.0 |
| 4/23/2015 15:01:51 | 51.18 | 47.38 | 271 | 3.92 | 0.37 | 14.8 |
| 4/23/2015 15:01:51 | 51.51 | 47.71 | 292 | 4.09 | 0.37 | 16.0 |
| 4/23/2015 15:01:53 | 51.84 | 48.04 | 353 | 4.18 | 0.37 | 19.3 |
| 4/23/2015 15:01:54 | 52.17 | 48.37 | 405 | 3.07 | 0.37 | 22.2 |
| 4/23/2015 15:01:54 | 52.49 | 48.69 | 428 | 2.88 | 0.37 | 23.4 |
| 4/23/2015 15:01:57 | 52.82 | 49.02 | 196 | 3.30 | 0.40 | 10.7 |
| 4/23/2015 15:02:00 | 53.15 | 49.35 | 100 | 3.50 | 0.39 | 5.5 |
| 4/23/2015 15:02:04 | 53.48 | 49.68 | 98 | 3.75 | 0.39 | 5.4 |
| 4/23/2015 15:02:08 | 53.81 | 50.01 | 90 | 3.63 | 0.40 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 15:02:11 | 54.13 | 50.33 | 101 | 3.84 | 0.40 | 5.5 |
| 4/23/2015 | 15:02:16 | 54.46 | 50.66 | 78 | 3.49 | 0.40 | 4.3 |
| 4/23/2015 | 15:02:20 | 54.79 | 50.99 | 78 | 3.96 | 0.40 | 4.3 |
| 4/23/2015 | 15:02:25 | 55.12 | 51.32 | 84 | 3.50 | 0.40 | 4.6 |
| 4/23/2015 | 15:02:28 | 55.45 | 51.65 | 95 | 3.66 | 0.40 | 5.2 |
| 4/23/2015 | 15:02:32 | 55.77 | 51.97 | 78 | 3.64 | 0.39 | 4.3 |
| 4/23/2015 | 15:02:37 | 56.10 | 52.30 | 87 | 3.54 | 0.40 | 4.8 |
| 4/23/2015 | 15:02:42 | 56.43 | 52.63 | 72 | 3.33 | 0.40 | 4.0 |
| 4/23/2015 | 15:02:47 | 56.76 | 52.96 | 75 | 3.37 | 0.40 | 4.1 |
| 4/23/2015 | 15:02:51 | 57.09 | 53.29 | 81 | 3.39 | 0.40 | 4.4 |
| 4/23/2015 | 15:02:56 | 57.41 | 53.61 | 84 | 3.29 | 0.40 | 4.6 |
| 4/23/2015 | 15:03:00 | 57.74 | 53.94 | 84 | 3.41 | 0.39 | 4.6 |
| 4/23/2015 | 15:03:04 | 58.07 | 54.27 | 81 | 3.39 | 0.40 | 4.4 |
| 4/23/2015 | 15:03:09 | 58.40 | 54.60 | 76 | 3.26 | 0.40 | 4.2 |
| 4/23/2015 | 15:03:12 | 58.62 | 54.82 | 78 | 3.52 | 0.39 | 4.3 |

## H450 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:56:45

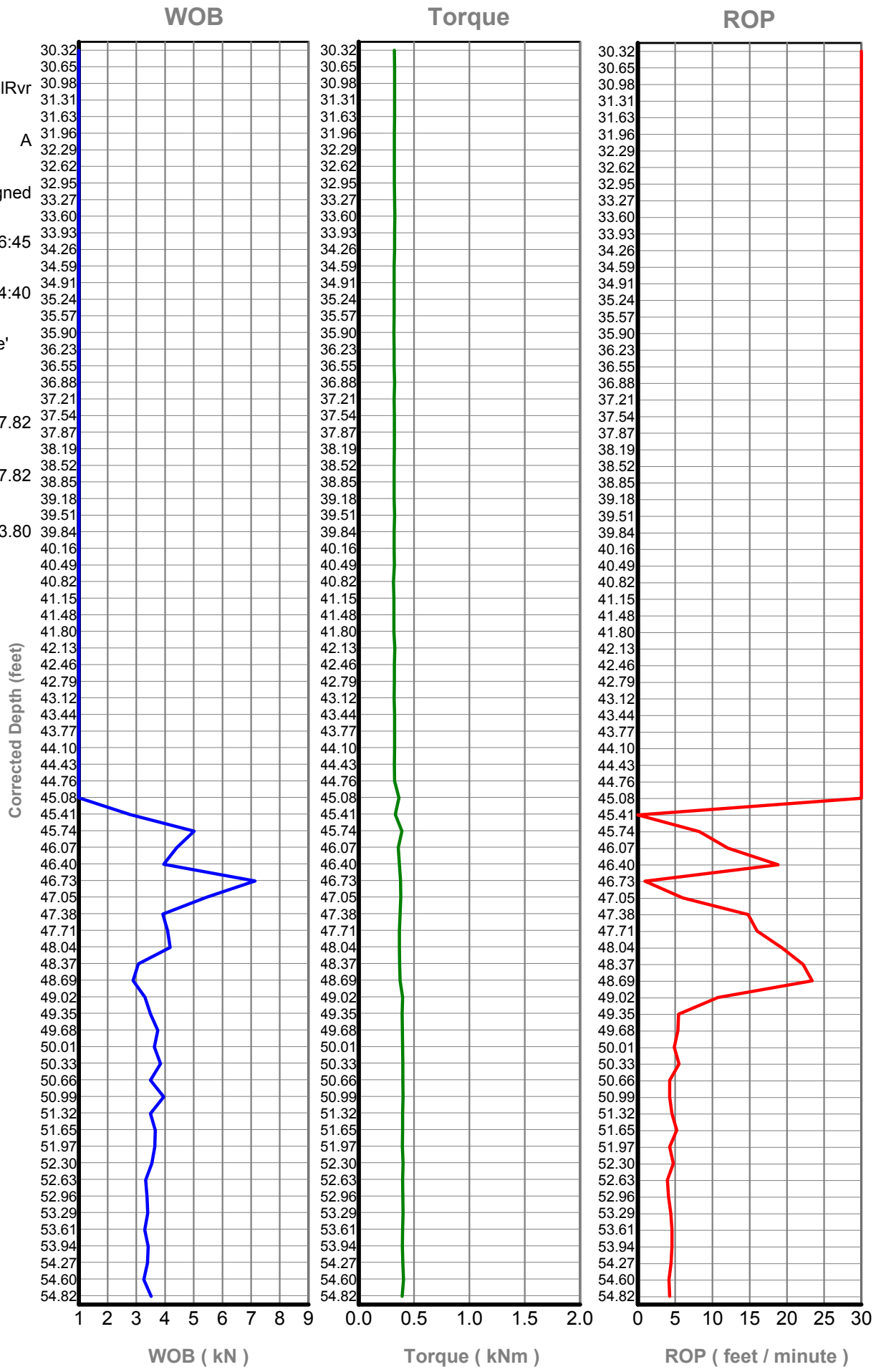
**End Date:**
4/23/2015 15:04:40

**Operator Note:**
'3.8 3.6 b Auto Complete'

**Northing:**
366,897.82

**Easting:**
251,807.82

**Tide (feet):**
3.80



## Hole: H451 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 15:02:51 | 34.12 | 30.22 | 635 | 1.96 | 0.31 | 34.7 |
| 4/23/2015 15:02:51 | 34.45 | 30.55 | 621 | 1.97 | 0.31 | 34.0 |
| 4/23/2015 15:02:52 | 34.78 | 30.88 | 621 | 1.97 | 0.31 | 34.0 |
| 4/23/2015 15:02:52 | 35.11 | 31.21 | 631 | 1.95 | 0.31 | 34.5 |
| 4/23/2015 15:02:53 | 35.43 | 31.53 | 631 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:02:53 | 35.76 | 31.86 | 635 | 1.98 | 0.31 | 34.7 |
| 4/23/2015 15:02:54 | 36.09 | 32.19 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:02:54 | 36.42 | 32.52 | 646 | 1.98 | 0.31 | 35.3 |
| 4/23/2015 15:02:55 | 36.75 | 32.85 | 643 | 1.96 | 0.31 | 35.2 |
| 4/23/2015 15:02:55 | 37.07 | 33.17 | 639 | 1.97 | 0.31 | 34.9 |
| 4/23/2015 15:02:56 | 37.40 | 33.50 | 639 | 1.99 | 0.31 | 34.9 |
| 4/23/2015 15:02:56 | 37.73 | 33.83 | 639 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 15:02:57 | 38.06 | 34.16 | 642 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 15:02:58 | 38.39 | 34.49 | 642 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 15:02:58 | 38.71 | 34.81 | 636 | 1.99 | 0.31 | 34.8 |
| 4/23/2015 15:02:59 | 39.04 | 35.14 | 638 | 1.97 | 0.31 | 34.9 |
| 4/23/2015 15:02:59 | 39.37 | 35.47 | 638 | 1.96 | 0.31 | 34.9 |
| 4/23/2015 15:03:00 | 39.70 | 35.80 | 639 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 15:03:01 | 40.03 | 36.13 | 639 | 1.97 | 0.31 | 34.9 |
| 4/23/2015 15:03:01 | 40.35 | 36.45 | 639 | 1.97 | 0.31 | 34.9 |
| 4/23/2015 15:03:02 | 40.68 | 36.78 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:03:02 | 41.01 | 37.11 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:03:03 | 41.34 | 37.44 | 632 | 1.96 | 0.31 | 34.6 |
| 4/23/2015 15:03:03 | 41.67 | 37.77 | 622 | 1.98 | 0.31 | 34.0 |
| 4/23/2015 15:03:04 | 41.99 | 38.09 | 622 | 1.97 | 0.31 | 34.0 |
| 4/23/2015 15:03:04 | 42.32 | 38.42 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:03:05 | 42.65 | 38.75 | 626 | 1.98 | 0.31 | 34.3 |
| 4/23/2015 15:03:06 | 42.98 | 39.08 | 631 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:03:06 | 43.31 | 39.41 | 641 | 1.96 | 0.31 | 35.0 |
| 4/23/2015 15:03:07 | 43.64 | 39.74 | 629 | 1.97 | 0.31 | 34.4 |
| 4/23/2015 15:03:07 | 43.96 | 40.06 | 636 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 15:03:08 | 44.29 | 40.39 | 633 | 1.97 | 0.31 | 34.6 |
| 4/23/2015 15:03:08 | 44.62 | 40.72 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:03:09 | 44.95 | 41.05 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 15:03:09 | 45.28 | 41.38 | 633 | 1.97 | 0.31 | 34.6 |
| 4/23/2015 15:03:10 | 45.60 | 41.70 | 627 | 1.97 | 0.31 | 34.3 |
| 4/23/2015 15:03:11 | 45.93 | 42.03 | 634 | 1.98 | 0.31 | 34.7 |
| 4/23/2015 15:03:11 | 46.26 | 42.36 | 629 | 1.97 | 0.31 | 34.4 |
| 4/23/2015 15:03:12 | 46.59 | 42.69 | 633 | 1.98 | 0.31 | 34.6 |
| 4/23/2015 15:03:13 | 46.92 | 43.02 | 633 | 1.96 | 0.31 | 34.6 |
| 4/23/2015 15:03:13 | 47.24 | 43.34 | 629 | 1.97 | 0.31 | 34.4 |
| 4/23/2015 15:03:14 | 47.57 | 43.67 | 633 | 1.98 | 0.31 | 34.6 |
| 4/23/2015 15:03:14 | 47.90 | 44.00 | 627 | 1.95 | 0.31 | 34.3 |
| 4/23/2015 15:03:30 | 48.23 | 44.33 | 47 | 1.98 | 1.19 | 2.6 |
| 4/23/2015 15:03:32 | 48.56 | 44.66 | 198 | 1.96 | 1.13 | 10.8 |
| 4/23/2015 15:03:32 | 48.88 | 44.98 | 278 | 1.95 | 1.12 | 15.2 |
| 4/23/2015 15:03:33 | 49.21 | 45.31 | 393 | 1.97 | 1.11 | 21.5 |
| 4/23/2015 15:03:34 | 49.54 | 45.64 | 393 | 1.97 | 1.25 | 21.5 |
| 4/23/2015 15:03:37 | 49.87 | 45.97 | 210 | 1.99 | 1.17 | 11.5 |
| 4/23/2015 15:03:39 | 50.20 | 46.30 | 131 | 1.95 | 1.20 | 7.2 |
| 4/23/2015 15:03:40 | 50.53 | 46.63 | 169 | 1.94 | 1.11 | 9.2 |
| 4/23/2015 15:03:41 | 50.85 | 46.95 | 235 | 1.96 | 1.18 | 12.8 |
| 4/23/2015 15:03:43 | 51.18 | 47.28 | 286 | 1.98 | 1.21 | 15.6 |
| 4/23/2015 15:03:47 | 51.51 | 47.61 | 109 | 1.98 | 1.15 | 6.0 |
| 4/23/2015 15:03:53 | 51.84 | 47.94 | 63 | 1.98 | 1.16 | 3.4 |
| 4/23/2015 15:03:59 | 52.17 | 48.27 | 48 | 1.96 | 1.18 | 2.6 |
| 4/23/2015 15:04:06 | 52.49 | 48.59 | 48 | 1.98 | 1.18 | 2.6 |
| 4/23/2015 15:04:13 | 52.82 | 48.92 | 49 | 1.97 | 1.12 | 2.7 |
| 4/23/2015 15:04:20 | 53.15 | 49.25 | 46 | 1.99 | 1.19 | 2.5 |
| 4/23/2015 15:04:26 | 53.48 | 49.58 | 69 | 1.98 | 1.19 | 3.8 |
| 4/23/2015 15:04:29 | 53.65 | 49.75 | 55 | 1.98 | 1.24 | 3.0 |

## H451 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 15:00:55

**End Date:**
4/23/2015 15:07:10

**Operator Note:**
'3.9 3.6 c Auto Complete'

**Northing:**
366,943.51

**Easting:**
251,867.31

**Tide (feet):**
3.90



## Hole: H452 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:17:30 | 31.50 | 30.10 | 903 | 0.33 | 0.32 | 49.4 |
| 4/23/2015 13:17:31 | 31.82 | 30.42 | 917 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 13:17:31 | 32.15 | 30.75 | 917 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 13:17:31 | 32.48 | 31.08 | 926 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 13:17:32 | 32.81 | 31.41 | 924 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 13:17:32 | 33.14 | 31.74 | 936 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 13:17:33 | 33.46 | 32.06 | 936 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 13:17:33 | 33.79 | 32.39 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 13:17:33 | 34.12 | 32.72 | 925 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 13:17:34 | 34.45 | 33.05 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 13:17:35 | 34.78 | 33.38 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 13:17:35 | 35.11 | 33.71 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 13:17:35 | 35.43 | 34.03 | 913 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 13:17:36 | 35.76 | 34.36 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 13:17:36 | 36.09 | 34.69 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 13:17:36 | 36.42 | 35.02 | 905 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 13:17:37 | 36.75 | 35.35 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 13:17:37 | 37.07 | 35.67 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 13:17:38 | 37.40 | 36.00 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 13:17:38 | 37.73 | 36.33 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:38 | 38.06 | 36.66 | 896 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 13:17:39 | 38.39 | 36.99 | 896 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 13:17:39 | 38.71 | 37.31 | 896 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 13:17:39 | 39.04 | 37.64 | 899 | 0.33 | 0.31 | 49.2 |
| 4/23/2015 13:17:40 | 39.37 | 37.97 | 900 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:40 | 39.70 | 38.30 | 917 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 13:17:41 | 40.03 | 38.63 | 917 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 13:17:41 | 40.35 | 38.95 | 917 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 13:17:41 | 40.68 | 39.28 | 920 | 0.33 | 0.31 | 50.3 |
| 4/23/2015 13:17:42 | 41.01 | 39.61 | 926 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 13:17:42 | 41.34 | 39.94 | 926 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 13:17:42 | 41.67 | 40.27 | 928 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 13:17:43 | 41.99 | 40.59 | 911 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 13:17:43 | 42.32 | 40.92 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:44 | 42.65 | 41.25 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:44 | 42.98 | 41.58 | 908 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 13:17:44 | 43.31 | 41.91 | 896 | 0.33 | 0.32 | 49.0 |
| 4/23/2015 13:17:45 | 43.64 | 42.24 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:46 | 43.96 | 42.56 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:46 | 44.29 | 42.89 | 899 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:17:46 | 44.62 | 43.22 | 910 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 13:17:47 | 44.95 | 43.55 | 899 | 0.33 | 0.31 | 49.2 |
| 4/23/2015 13:17:47 | 45.28 | 43.88 | 899 | 0.33 | 0.31 | 49.2 |
| 4/23/2015 13:17:47 | 45.60 | 44.20 | 908 | 0.33 | 0.31 | 49.6 |
| 4/23/2015 13:17:48 | 45.93 | 44.53 | 905 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 13:17:48 | 46.26 | 44.86 | 911 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 13:17:49 | 46.59 | 45.19 | 894 | 0.31 | 0.37 | 48.9 |
| 4/23/2015 13:18:04 | 46.92 | 45.52 | 49 | 3.90 | 0.39 | 2.7 |
| 4/23/2015 13:18:09 | 47.24 | 45.84 | 82 | 4.24 | 0.39 | 4.5 |
| 4/23/2015 13:18:13 | 47.57 | 46.17 | 78 | 4.01 | 0.39 | 4.3 |
| 4/23/2015 13:18:18 | 47.90 | 46.50 | 75 | 3.83 | 0.39 | 4.1 |
| 4/23/2015 13:18:23 | 48.23 | 46.83 | 69 | 3.39 | 0.38 | 3.7 |
| 4/23/2015 13:18:27 | 48.56 | 47.16 | 89 | 3.64 | 0.38 | 4.9 |
| 4/23/2015 13:18:31 | 48.88 | 47.48 | 84 | 3.65 | 0.39 | 4.6 |
| 4/23/2015 13:18:38 | 49.21 | 47.81 | 52 | 3.43 | 0.39 | 2.8 |
| 4/23/2015 13:18:42 | 49.54 | 48.14 | 79 | 4.04 | 0.38 | 4.3 |
| 4/23/2015 13:18:46 | 49.87 | 48.47 | 57 | 3.31 | 0.39 | 3.1 |
| 4/23/2015 13:18:50 | 50.20 | 48.80 | 97 | 3.13 | 0.39 | 5.3 |
| 4/23/2015 13:19:01 | 50.53 | 49.13 | 54 | 3.39 | 0.39 | 2.9 |
| 4/23/2015 13:19:07 | 50.85 | 49.45 | 70 | 3.56 | 0.38 | 3.8 |
| 4/23/2015 13:19:12 | 51.18 | 49.78 | 56 | 3.23 | 0.39 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:19:19 | 51.51 | 50.11 | 58 | 3.91 | 0.38 | 3.2 |
| 4/23/2015 | 13:19:21 | 51.67 | 50.27 | 58 | 3.24 | 0.39 | 3.1 |

## H452 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:15:42

**End Date:**
4/23/2015 13:20:19

**Operator Note:**
'1.4 '0.6 1.1 b Auto Complete'

**Northing:**
367,005.46

**Easting:**
251,936.98

**Tide (feet):**
1.40



## Hole: H453 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:22:05 | 31.50 | 30.10 | 938 | 0.35 | 0.31 | 51.3 |
| 4/23/2015 13:22:06 | 31.82 | 30.42 | 938 | 0.35 | 0.31 | 51.3 |
| 4/23/2015 13:22:06 | 32.15 | 30.75 | 938 | 0.35 | 0.31 | 51.3 |
| 4/23/2015 13:22:06 | 32.48 | 31.08 | 925 | 0.35 | 0.31 | 50.6 |
| 4/23/2015 13:22:07 | 32.81 | 31.41 | 925 | 0.35 | 0.31 | 50.6 |
| 4/23/2015 13:22:07 | 33.14 | 31.74 | 925 | 0.35 | 0.31 | 50.6 |
| 4/23/2015 13:22:07 | 33.46 | 32.06 | 933 | 0.35 | 0.31 | 51.0 |
| 4/23/2015 13:22:08 | 33.79 | 32.39 | 943 | 0.35 | 0.31 | 51.6 |
| 4/23/2015 13:22:08 | 34.12 | 32.72 | 940 | 0.35 | 0.31 | 51.4 |
| 4/23/2015 13:22:09 | 34.45 | 33.05 | 940 | 0.35 | 0.31 | 51.4 |
| 4/23/2015 13:22:09 | 34.78 | 33.38 | 939 | 0.31 | 0.32 | 51.3 |
| 4/23/2015 13:22:09 | 35.11 | 33.71 | 939 | 0.34 | 0.31 | 51.3 |
| 4/23/2015 13:22:10 | 35.43 | 34.03 | 957 | 0.34 | 0.31 | 52.4 |
| 4/23/2015 13:22:10 | 35.76 | 34.36 | 957 | 0.34 | 0.31 | 52.4 |
| 4/23/2015 13:22:10 | 36.09 | 34.69 | 940 | 0.34 | 0.31 | 51.4 |
| 4/23/2015 13:22:11 | 36.42 | 35.02 | 952 | 0.34 | 0.31 | 52.0 |
| 4/23/2015 13:22:11 | 36.75 | 35.35 | 952 | 0.34 | 0.31 | 52.0 |
| 4/23/2015 13:22:11 | 37.07 | 35.67 | 937 | 0.34 | 0.31 | 51.3 |
| 4/23/2015 13:22:12 | 37.40 | 36.00 | 935 | 0.34 | 0.32 | 51.1 |
| 4/23/2015 13:22:12 | 37.73 | 36.33 | 935 | 0.35 | 0.31 | 51.1 |
| 4/23/2015 13:22:13 | 38.06 | 36.66 | 935 | 0.35 | 0.31 | 51.1 |
| 4/23/2015 13:22:13 | 38.39 | 36.99 | 935 | 0.34 | 0.31 | 51.1 |
| 4/23/2015 13:22:13 | 38.71 | 37.31 | 941 | 0.34 | 0.32 | 51.5 |
| 4/23/2015 13:22:14 | 39.04 | 37.64 | 941 | 0.34 | 0.32 | 51.5 |
| 4/23/2015 13:22:14 | 39.37 | 37.97 | 915 | 0.34 | 0.31 | 50.0 |
| 4/23/2015 13:22:14 | 39.70 | 38.30 | 915 | 0.34 | 0.31 | 50.0 |
| 4/23/2015 13:22:15 | 40.03 | 38.63 | 937 | 0.34 | 0.31 | 51.3 |
| 4/23/2015 13:22:16 | 40.35 | 38.95 | 937 | 0.34 | 0.31 | 51.3 |
| 4/23/2015 13:22:16 | 40.68 | 39.28 | 944 | 0.34 | 0.31 | 51.6 |
| 4/23/2015 13:22:16 | 41.01 | 39.61 | 944 | 0.40 | 0.32 | 51.6 |
| 4/23/2015 13:22:17 | 41.34 | 39.94 | 934 | 0.43 | 0.32 | 51.1 |
| 4/23/2015 13:22:17 | 41.67 | 40.27 | 934 | 0.43 | 0.32 | 51.1 |
| 4/23/2015 13:22:17 | 41.99 | 40.59 | 934 | 0.43 | 0.32 | 51.1 |
| 4/23/2015 13:22:18 | 42.32 | 40.92 | 919 | 0.43 | 0.32 | 50.3 |
| 4/23/2015 13:22:18 | 42.65 | 41.25 | 921 | 0.42 | 0.32 | 50.3 |
| 4/23/2015 13:22:19 | 42.98 | 41.58 | 921 | 0.42 | 0.32 | 50.3 |
| 4/23/2015 13:22:19 | 43.31 | 41.91 | 921 | 0.44 | 0.32 | 50.3 |
| 4/23/2015 13:22:19 | 43.64 | 42.24 | 908 | 0.45 | 0.32 | 49.7 |
| 4/23/2015 13:22:20 | 43.96 | 42.56 | 917 | 0.45 | 0.31 | 50.2 |
| 4/23/2015 13:22:20 | 44.29 | 42.89 | 917 | 0.45 | 0.31 | 50.2 |
| 4/23/2015 13:22:20 | 44.62 | 43.22 | 899 | 0.45 | 0.32 | 49.2 |
| 4/23/2015 13:22:21 | 44.95 | 43.55 | 884 | 0.45 | 0.32 | 48.4 |
| 4/23/2015 13:22:21 | 45.28 | 43.88 | 884 | 0.43 | 0.32 | 48.4 |
| 4/23/2015 13:22:22 | 45.60 | 44.20 | 884 | 0.43 | 0.32 | 48.4 |
| 4/23/2015 13:22:22 | 45.93 | 44.53 | 889 | 0.43 | 0.32 | 48.6 |
| 4/23/2015 13:22:22 | 46.26 | 44.86 | 889 | 0.43 | 0.32 | 48.6 |
| 4/23/2015 13:22:23 | 46.59 | 45.19 | 894 | 0.43 | 0.32 | 48.9 |
| 4/23/2015 13:22:23 | 46.92 | 45.52 | 894 | 0.43 | 0.32 | 48.9 |
| 4/23/2015 13:22:23 | 47.24 | 45.84 | 874 | 0.41 | 0.32 | 47.8 |
| 4/23/2015 13:22:24 | 47.57 | 46.17 | 874 | 0.34 | 0.32 | 47.8 |
| 4/23/2015 13:22:24 | 47.90 | 46.50 | 882 | 0.33 | 0.31 | 48.3 |
| 4/23/2015 13:22:25 | 48.23 | 46.83 | 882 | 0.33 | 0.31 | 48.3 |
| 4/23/2015 13:22:25 | 48.56 | 47.16 | 882 | 0.36 | 0.31 | 48.3 |
| 4/23/2015 13:22:25 | 48.88 | 47.48 | 908 | 0.34 | 0.31 | 49.6 |
| 4/23/2015 13:22:26 | 49.21 | 47.81 | 908 | 0.35 | 0.32 | 49.6 |
| 4/23/2015 13:22:27 | 49.54 | 48.14 | 908 | 0.35 | 0.32 | 49.6 |
| 4/23/2015 13:22:39 | 49.87 | 48.47 | 0 | 3.39 | 0.36 | 0.0 |
| 4/23/2015 13:22:46 | 50.20 | 48.80 | 5 | 3.22 | 0.38 | 0.3 |
| 4/23/2015 13:22:52 | 50.53 | 49.13 | 54 | 4.06 | 0.39 | 2.9 |
| 4/23/2015 13:22:58 | 50.85 | 49.45 | 56 | 3.18 | 0.39 | 3.1 |
| 4/23/2015 13:23:04 | 51.18 | 49.78 | 60 | 3.39 | 0.39 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 13:23:10 | 51.51 | 50.11 | 63 | 3.35 | 0.39 | 3.4 | |

## H453 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:20:28

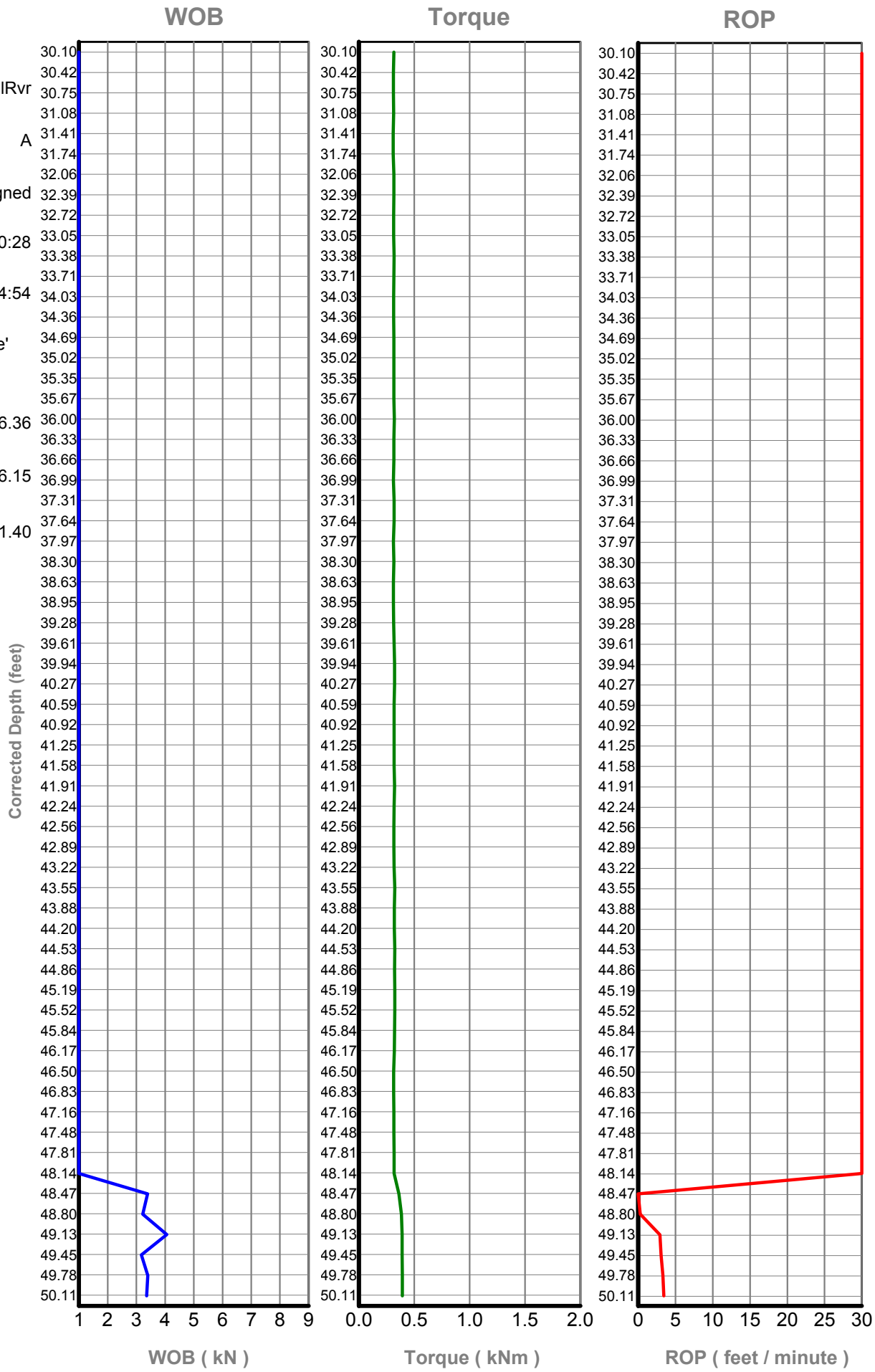
**End Date:**
4/23/2015 13:24:54

**Operator Note:**
'1.4 1.1 b Auto Complete'

**Northing:**
367,036.36

**Easting:**
251,986.15

**Tide (feet):**
1.40



## Hole: H454 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:16:57 | 31.50 | 30.30 | 595 | 1.98 | 0.31 | 32.6 |
| 4/23/2015 13:16:57 | 31.82 | 30.62 | 595 | 1.95 | 0.31 | 32.6 |
| 4/23/2015 13:16:58 | 32.15 | 30.95 | 595 | 1.98 | 0.31 | 32.6 |
| 4/23/2015 13:16:58 | 32.48 | 31.28 | 602 | 2.00 | 0.31 | 32.9 |
| 4/23/2015 13:16:59 | 32.81 | 31.61 | 594 | 1.98 | 0.31 | 32.5 |
| 4/23/2015 13:17:00 | 33.14 | 31.94 | 607 | 1.95 | 0.31 | 33.2 |
| 4/23/2015 13:17:00 | 33.46 | 32.26 | 613 | 1.98 | 0.31 | 33.5 |
| 4/23/2015 13:17:01 | 33.79 | 32.59 | 625 | 1.98 | 0.31 | 34.2 |
| 4/23/2015 13:17:01 | 34.12 | 32.92 | 622 | 1.98 | 0.31 | 34.0 |
| 4/23/2015 13:17:02 | 34.45 | 33.25 | 635 | 1.96 | 0.31 | 34.7 |
| 4/23/2015 13:17:02 | 34.78 | 33.58 | 627 | 1.98 | 0.30 | 34.3 |
| 4/23/2015 13:17:03 | 35.11 | 33.91 | 627 | 1.98 | 0.31 | 34.3 |
| 4/23/2015 13:17:04 | 35.43 | 34.23 | 621 | 1.98 | 0.31 | 33.9 |
| 4/23/2015 13:17:04 | 35.76 | 34.56 | 627 | 1.99 | 0.30 | 34.3 |
| 4/23/2015 13:17:05 | 36.09 | 34.89 | 614 | 1.95 | 0.31 | 33.6 |
| 4/23/2015 13:17:06 | 36.42 | 35.22 | 622 | 1.96 | 0.31 | 34.0 |
| 4/23/2015 13:17:06 | 36.75 | 35.55 | 624 | 1.98 | 0.31 | 34.1 |
| 4/23/2015 13:17:07 | 37.07 | 35.87 | 628 | 1.98 | 0.31 | 34.4 |
| 4/23/2015 13:17:07 | 37.40 | 36.20 | 622 | 1.98 | 0.31 | 34.0 |
| 4/23/2015 13:17:08 | 37.73 | 36.53 | 635 | 1.98 | 0.31 | 34.7 |
| 4/23/2015 13:17:08 | 38.06 | 36.86 | 630 | 1.97 | 0.31 | 34.5 |
| 4/23/2015 13:17:09 | 38.39 | 37.19 | 627 | 1.95 | 0.31 | 34.3 |
| 4/23/2015 13:17:09 | 38.71 | 37.51 | 627 | 1.99 | 0.31 | 34.3 |
| 4/23/2015 13:17:10 | 39.04 | 37.84 | 627 | 1.98 | 0.31 | 34.3 |
| 4/23/2015 13:17:10 | 39.37 | 38.17 | 627 | 1.96 | 0.31 | 34.3 |
| 4/23/2015 13:17:11 | 39.70 | 38.50 | 627 | 1.96 | 0.31 | 34.3 |
| 4/23/2015 13:17:12 | 40.03 | 38.83 | 624 | 1.98 | 0.31 | 34.1 |
| 4/23/2015 13:17:12 | 40.35 | 39.15 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 13:17:13 | 40.68 | 39.48 | 627 | 1.98 | 0.31 | 34.3 |
| 4/23/2015 13:17:13 | 41.01 | 39.81 | 624 | 1.98 | 0.31 | 34.1 |
| 4/23/2015 13:17:14 | 41.34 | 40.14 | 627 | 1.98 | 0.31 | 34.3 |
| 4/23/2015 13:17:15 | 41.67 | 40.47 | 614 | 1.98 | 0.31 | 33.6 |
| 4/23/2015 13:17:15 | 41.99 | 40.79 | 614 | 1.96 | 0.30 | 33.6 |
| 4/23/2015 13:17:16 | 42.32 | 41.12 | 621 | 1.94 | 0.30 | 34.0 |
| 4/23/2015 13:17:16 | 42.65 | 41.45 | 622 | 1.99 | 0.30 | 34.0 |
| 4/23/2015 13:17:17 | 42.98 | 41.78 | 620 | 1.98 | 0.30 | 33.9 |
| 4/23/2015 13:17:18 | 43.31 | 42.11 | 632 | 1.98 | 0.30 | 34.6 |
| 4/23/2015 13:17:18 | 43.64 | 42.44 | 620 | 1.98 | 0.30 | 33.9 |
| 4/23/2015 13:17:19 | 43.96 | 42.76 | 627 | 1.98 | 0.30 | 34.3 |
| 4/23/2015 13:17:19 | 44.29 | 43.09 | 624 | 1.99 | 0.30 | 34.1 |
| 4/23/2015 13:17:20 | 44.62 | 43.42 | 627 | 1.96 | 0.30 | 34.3 |
| 4/23/2015 13:17:20 | 44.95 | 43.75 | 627 | 1.98 | 0.30 | 34.3 |
| 4/23/2015 13:17:21 | 45.28 | 44.08 | 624 | 1.98 | 0.30 | 34.1 |
| 4/23/2015 13:17:21 | 45.60 | 44.40 | 619 | 1.99 | 0.30 | 33.8 |
| 4/23/2015 13:17:22 | 45.93 | 44.73 | 619 | 1.98 | 0.30 | 33.8 |
| 4/23/2015 13:17:22 | 46.26 | 45.06 | 615 | 1.98 | 0.30 | 33.6 |
| 4/23/2015 13:17:23 | 46.59 | 45.39 | 622 | 1.98 | 0.30 | 34.0 |
| 4/23/2015 13:17:24 | 46.92 | 45.72 | 624 | 1.98 | 0.30 | 34.1 |
| 4/23/2015 13:17:25 | 47.24 | 46.04 | 624 | 1.98 | 0.30 | 34.1 |
| 4/23/2015 13:17:25 | 47.57 | 46.37 | 618 | 1.98 | 0.30 | 33.8 |
| 4/23/2015 13:17:26 | 47.90 | 46.70 | 618 | 1.95 | 0.30 | 33.8 |
| 4/23/2015 13:17:26 | 48.23 | 47.03 | 616 | 1.98 | 0.30 | 33.7 |
| 4/23/2015 13:17:27 | 48.56 | 47.36 | 617 | 1.98 | 0.30 | 33.7 |
| 4/23/2015 13:17:27 | 48.88 | 47.68 | 616 | 1.99 | 0.30 | 33.7 |
| 4/23/2015 13:17:28 | 49.21 | 48.01 | 617 | 1.98 | 0.30 | 33.7 |
| 4/23/2015 13:17:29 | 49.54 | 48.34 | 613 | 1.97 | 0.30 | 33.5 |
| 4/23/2015 13:17:29 | 49.87 | 48.67 | 617 | 2.28 | 0.30 | 33.7 |
| 4/23/2015 13:17:38 | 50.20 | 49.00 | 26 | 1.99 | 1.12 | 1.4 |
| 4/23/2015 13:17:39 | 50.53 | 49.33 | 142 | 2.00 | 1.12 | 7.8 |
| 4/23/2015 13:17:39 | 50.85 | 49.65 | 270 | 1.98 | 1.12 | 14.8 |
| 4/23/2015 13:17:40 | 51.18 | 49.98 | 399 | 1.99 | 1.12 | 21.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:17:40 | 51.51 | 50.31 | 523 | 1.97 | 1.12 | 28.6 |
| 4/23/2015 | 13:17:41 | 51.84 | 50.64 | 622 | 1.95 | 1.12 | 34.0 |
| 4/23/2015 | 13:17:42 | 52.17 | 50.97 | 612 | 1.99 | 1.10 | 33.4 |
| 4/23/2015 | 13:17:42 | 52.49 | 51.29 | 612 | 2.00 | 1.15 | 33.4 |
| 4/23/2015 | 13:17:43 | 52.82 | 51.62 | 611 | 2.00 | 1.15 | 33.4 |
| 4/23/2015 | 13:17:43 | 53.15 | 51.95 | 596 | 2.00 | 1.23 | 32.6 |
| 4/23/2015 | 13:17:44 | 53.48 | 52.28 | 548 | 1.95 | 1.27 | 30.0 |
| 4/23/2015 | 13:17:45 | 53.81 | 52.61 | 506 | 1.98 | 1.19 | 27.7 |
| 4/23/2015 | 13:17:46 | 54.13 | 52.93 | 436 | 1.99 | 1.13 | 23.9 |
| 4/23/2015 | 13:17:47 | 54.46 | 53.26 | 402 | 1.94 | 1.12 | 22.0 |
| 4/23/2015 | 13:17:48 | 54.79 | 53.59 | 405 | 1.95 | 1.15 | 22.1 |
| 4/23/2015 | 13:17:49 | 55.12 | 53.92 | 352 | 2.00 | 1.19 | 19.3 |
| 4/23/2015 | 13:17:51 | 55.45 | 54.25 | 263 | 2.01 | 1.47 | 14.4 |
| 4/23/2015 | 13:17:54 | 55.77 | 54.57 | 55 | 1.94 | 1.11 | 3.0 |
| 4/23/2015 | 13:17:55 | 56.10 | 54.90 | 218 | 1.99 | 1.37 | 11.9 |
| 4/23/2015 | 13:17:55 | 56.16 | 54.96 | 218 | 1.99 | 1.37 | 11.9 |

## H454 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:14:50

**End Date:**
4/23/2015 13:19:31

**Operator Note:**
'1.2 '0.6 1.1 c Auto Complete'

**Northing:**
367,083.59

**Easting:**
252,045.49

**Tide (feet):**
1.20



## Hole: H455 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:36:43 | 33.46 | 30.26 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 14:36:44 | 33.79 | 30.59 | 927 | 0.33 | 0.32 | 50.7 |
| 4/23/2015 14:36:44 | 34.12 | 30.92 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 14:36:44 | 34.45 | 31.25 | 936 | 0.32 | 0.31 | 51.2 |
| 4/23/2015 14:36:45 | 34.78 | 31.58 | 933 | 0.33 | 0.32 | 51.0 |
| 4/23/2015 14:36:45 | 35.11 | 31.91 | 933 | 0.33 | 0.32 | 51.0 |
| 4/23/2015 14:36:45 | 35.43 | 32.23 | 946 | 0.35 | 0.32 | 51.7 |
| 4/23/2015 14:36:46 | 35.76 | 32.56 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 14:36:46 | 36.09 | 32.89 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:47 | 36.42 | 33.22 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:47 | 36.75 | 33.55 | 934 | 0.27 | 0.32 | 51.1 |
| 4/23/2015 14:36:47 | 37.07 | 33.87 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:48 | 37.40 | 34.20 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:48 | 37.73 | 34.53 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:48 | 38.06 | 34.86 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 14:36:49 | 38.39 | 35.19 | 907 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 14:36:49 | 38.71 | 35.51 | 919 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 14:36:50 | 39.04 | 35.84 | 919 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 14:36:50 | 39.37 | 36.17 | 930 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:50 | 39.70 | 36.50 | 936 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:51 | 40.03 | 36.83 | 936 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:51 | 40.35 | 37.15 | 942 | 0.33 | 0.30 | 51.5 |
| 4/23/2015 14:36:51 | 40.68 | 37.48 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 14:36:52 | 41.01 | 37.81 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:36:52 | 41.34 | 38.14 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:36:53 | 41.67 | 38.47 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 14:36:53 | 41.99 | 38.79 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:54 | 42.32 | 39.12 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:54 | 42.65 | 39.45 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:54 | 42.98 | 39.78 | 937 | 0.33 | 0.32 | 51.2 |
| 4/23/2015 14:36:55 | 43.31 | 40.11 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:55 | 43.64 | 40.44 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:36:55 | 43.96 | 40.76 | 923 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 14:36:56 | 44.29 | 41.09 | 937 | 0.33 | 0.32 | 51.3 |
| 4/23/2015 14:36:56 | 44.62 | 41.42 | 943 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 14:36:57 | 44.95 | 41.75 | 943 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 14:36:57 | 45.28 | 42.08 | 940 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 14:36:57 | 45.60 | 42.40 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 14:36:58 | 45.93 | 42.73 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 14:36:58 | 46.26 | 43.06 | 948 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 14:36:58 | 46.59 | 43.39 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 14:36:59 | 46.92 | 43.72 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 14:36:59 | 47.24 | 44.04 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 14:36:59 | 47.57 | 44.37 | 937 | 0.33 | 0.31 | 51.2 |
| 4/23/2015 14:37:00 | 47.90 | 44.70 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 14:37:00 | 48.23 | 45.03 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 14:37:01 | 48.56 | 45.36 | 942 | 0.33 | 0.32 | 51.5 |
| 4/23/2015 14:37:01 | 48.88 | 45.68 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:37:01 | 49.21 | 46.01 | 934 | 0.33 | 0.32 | 51.1 |
| 4/23/2015 14:37:02 | 49.54 | 46.34 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:37:02 | 49.87 | 46.67 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:37:02 | 50.20 | 47.00 | 931 | 0.31 | 0.34 | 50.9 |
| 4/23/2015 14:37:11 | 50.53 | 47.33 | 38 | 4.92 | 0.36 | 2.1 |
| 4/23/2015 14:37:14 | 50.85 | 47.65 | 200 | 4.35 | 0.38 | 10.9 |
| 4/23/2015 14:37:16 | 51.18 | 47.98 | 165 | 3.14 | 0.37 | 9.0 |
| 4/23/2015 14:37:17 | 51.51 | 48.31 | 275 | 3.15 | 0.36 | 15.0 |
| 4/23/2015 14:37:17 | 51.84 | 48.64 | 351 | 3.04 | 0.37 | 19.2 |
| 4/23/2015 14:37:19 | 52.17 | 48.97 | 362 | 3.77 | 0.38 | 19.8 |
| 4/23/2015 14:37:22 | 52.49 | 49.29 | 104 | 4.40 | 0.40 | 5.7 |
| 4/23/2015 14:37:29 | 52.82 | 49.62 | 38 | 4.36 | 0.40 | 2.1 |
| 4/23/2015 14:37:32 | 53.15 | 49.95 | 113 | 3.94 | 0.39 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 14:37:36 | 53.48 | 50.28 | 109 | 3.69 | 0.40 | 5.9 |
| 4/23/2015 | 14:37:39 | 53.81 | 50.61 | 107 | 3.76 | 0.39 | 5.9 |
| 4/23/2015 | 14:37:42 | 54.13 | 50.93 | 142 | 3.60 | 0.38 | 7.7 |
| 4/23/2015 | 14:37:43 | 54.46 | 51.26 | 179 | 3.20 | 0.38 | 9.8 |
| 4/23/2015 | 14:37:44 | 54.79 | 51.59 | 202 | 2.99 | 0.37 | 11.1 |
| 4/23/2015 | 14:37:45 | 55.12 | 51.92 | 247 | 3.18 | 0.36 | 13.5 |
| 4/23/2015 | 14:37:47 | 55.45 | 52.25 | 297 | 4.04 | 0.39 | 16.2 |
| 4/23/2015 | 14:37:49 | 55.77 | 52.57 | 156 | 3.90 | 0.41 | 8.5 |
| 4/23/2015 | 14:37:51 | 56.10 | 52.90 | 150 | 3.72 | 0.40 | 8.2 |
| 4/23/2015 | 14:37:57 | 56.43 | 53.23 | 70 | 3.66 | 0.40 | 3.8 |
| 4/23/2015 | 14:38:02 | 56.76 | 53.56 | 67 | 3.37 | 0.40 | 3.7 |
| 4/23/2015 | 14:38:07 | 57.09 | 53.89 | 72 | 3.59 | 0.40 | 4.0 |
| 4/23/2015 | 14:38:11 | 57.41 | 54.21 | 71 | 3.20 | 0.39 | 3.9 |
| 4/23/2015 | 14:38:16 | 57.74 | 54.54 | 78 | 3.43 | 0.40 | 4.3 |
| 4/23/2015 | 14:38:20 | 57.99 | 54.79 | 73 | 3.64 | 0.40 | 4.0 |

## H455 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:34:16

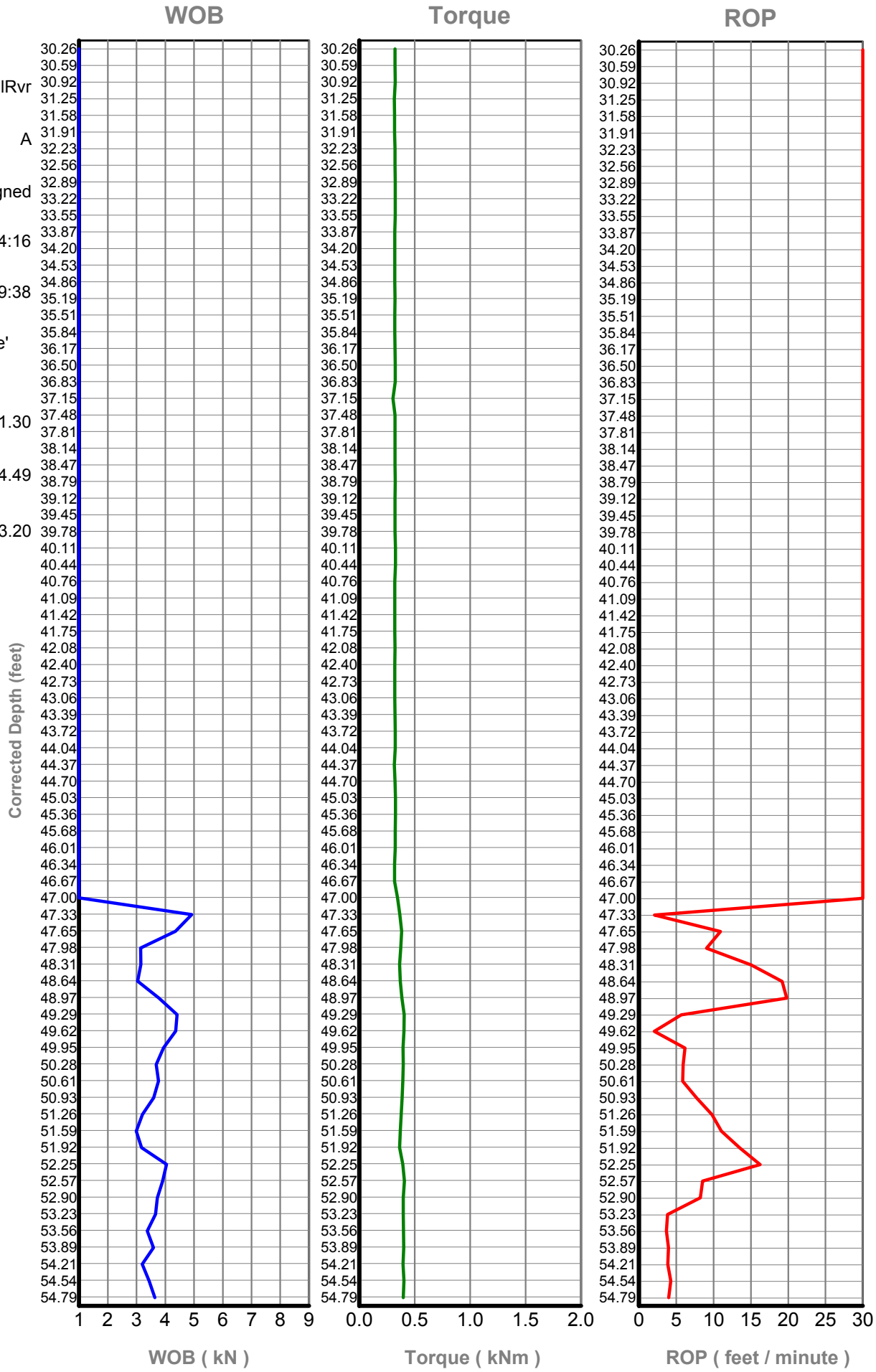
**End Date:**
4/23/2015 14:39:38

**Operator Note:**
'3.2 3.0 b Auto Complete'

**Northing:**
366,811.30

**Easting:**
251,814.49

**Tide (feet):**
3.20



## Hole: H456 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:41:29 | 33.79 | 30.29 | 925 | 0.33 | 0.32 | 50.6 |
| 4/23/2015 14:41:30 | 34.12 | 30.62 | 925 | 0.36 | 0.32 | 50.6 |
| 4/23/2015 14:41:30 | 34.45 | 30.95 | 925 | 0.36 | 0.32 | 50.6 |
| 4/23/2015 14:41:30 | 34.78 | 31.28 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 14:41:31 | 35.11 | 31.61 | 911 | 0.32 | 0.32 | 49.8 |
| 4/23/2015 14:41:31 | 35.43 | 31.93 | 919 | 0.33 | 0.33 | 50.3 |
| 4/23/2015 14:41:32 | 35.76 | 32.26 | 919 | 0.33 | 0.33 | 50.3 |
| 4/23/2015 14:41:32 | 36.09 | 32.59 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 14:41:32 | 36.42 | 32.92 | 914 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:33 | 36.75 | 33.25 | 897 | 0.33 | 0.32 | 49.1 |
| 4/23/2015 14:41:33 | 37.07 | 33.57 | 897 | 0.33 | 0.32 | 49.1 |
| 4/23/2015 14:41:33 | 37.40 | 33.90 | 909 | 0.33 | 0.32 | 49.7 |
| 4/23/2015 14:41:34 | 37.73 | 34.23 | 906 | 0.33 | 0.32 | 49.5 |
| 4/23/2015 14:41:35 | 38.06 | 34.56 | 891 | 0.33 | 0.32 | 48.7 |
| 4/23/2015 14:41:35 | 38.39 | 34.89 | 891 | 0.33 | 0.32 | 48.7 |
| 4/23/2015 14:41:35 | 38.71 | 35.21 | 891 | 0.33 | 0.32 | 48.7 |
| 4/23/2015 14:41:36 | 39.04 | 35.54 | 906 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 14:41:36 | 39.37 | 35.87 | 917 | 0.34 | 0.32 | 50.2 |
| 4/23/2015 14:41:37 | 39.70 | 36.20 | 917 | 0.34 | 0.32 | 50.2 |
| 4/23/2015 14:41:37 | 40.03 | 36.53 | 914 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:37 | 40.35 | 36.85 | 915 | 0.36 | 0.32 | 50.0 |
| 4/23/2015 14:41:38 | 40.68 | 37.18 | 932 | 0.32 | 0.33 | 51.0 |
| 4/23/2015 14:41:38 | 41.01 | 37.51 | 932 | 0.32 | 0.33 | 51.0 |
| 4/23/2015 14:41:38 | 41.34 | 37.84 | 922 | 0.33 | 0.32 | 50.4 |
| 4/23/2015 14:41:39 | 41.67 | 38.17 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 14:41:39 | 41.99 | 38.49 | 911 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 14:41:40 | 42.32 | 38.82 | 911 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 14:41:40 | 42.65 | 39.15 | 913 | 0.33 | 0.32 | 49.9 |
| 4/23/2015 14:41:40 | 42.98 | 39.48 | 911 | 0.33 | 0.32 | 49.8 |
| 4/23/2015 14:41:41 | 43.31 | 39.81 | 913 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:41 | 43.64 | 40.14 | 913 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:41 | 43.96 | 40.46 | 906 | 0.33 | 0.32 | 49.6 |
| 4/23/2015 14:41:42 | 44.29 | 40.79 | 924 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 14:41:42 | 44.62 | 41.12 | 921 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 14:41:43 | 44.95 | 41.45 | 921 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 14:41:43 | 45.28 | 41.78 | 923 | 0.33 | 0.32 | 50.5 |
| 4/23/2015 14:41:43 | 45.60 | 42.10 | 918 | 0.33 | 0.32 | 50.2 |
| 4/23/2015 14:41:44 | 45.93 | 42.43 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:41:45 | 46.26 | 42.76 | 931 | 0.33 | 0.32 | 50.9 |
| 4/23/2015 14:41:45 | 46.59 | 43.09 | 913 | 0.33 | 0.32 | 49.9 |
| 4/23/2015 14:41:45 | 46.92 | 43.42 | 916 | 0.33 | 0.32 | 50.1 |
| 4/23/2015 14:41:46 | 47.24 | 43.74 | 913 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:46 | 47.57 | 44.07 | 913 | 0.33 | 0.32 | 50.0 |
| 4/23/2015 14:41:46 | 47.90 | 44.40 | 919 | 0.33 | 0.32 | 50.3 |
| 4/23/2015 14:41:47 | 48.23 | 44.73 | 916 | 0.35 | 0.32 | 50.1 |
| 4/23/2015 14:41:47 | 48.56 | 45.06 | 913 | 0.33 | 0.33 | 49.9 |
| 4/23/2015 14:41:48 | 48.88 | 45.38 | 913 | 0.33 | 0.33 | 49.9 |
| 4/23/2015 14:41:48 | 49.21 | 45.71 | 902 | 0.33 | 0.32 | 49.3 |
| 4/23/2015 14:41:48 | 49.54 | 46.04 | 905 | 0.31 | 0.36 | 49.5 |
| 4/23/2015 14:41:55 | 49.87 | 46.37 | 77 | 2.45 | 0.34 | 4.2 |
| 4/23/2015 14:41:55 | 50.20 | 46.70 | 221 | 3.16 | 0.36 | 12.1 |
| 4/23/2015 14:41:56 | 50.53 | 47.03 | 389 | 4.03 | 0.40 | 21.3 |
| 4/23/2015 14:42:00 | 50.85 | 47.35 | 72 | 3.77 | 0.40 | 3.9 |
| 4/23/2015 14:42:02 | 51.18 | 47.68 | 161 | 3.16 | 0.38 | 8.8 |
| 4/23/2015 14:42:03 | 51.51 | 48.01 | 266 | 3.07 | 0.38 | 14.6 |
| 4/23/2015 14:42:04 | 51.84 | 48.34 | 323 | 3.31 | 0.37 | 17.7 |
| 4/23/2015 14:42:05 | 52.17 | 48.67 | 329 | 4.11 | 0.39 | 18.0 |
| 4/23/2015 14:42:09 | 52.49 | 48.99 | 90 | 3.35 | 0.40 | 4.9 |
| 4/23/2015 14:42:13 | 52.82 | 49.32 | 90 | 3.31 | 0.40 | 4.9 |
| 4/23/2015 14:42:18 | 53.15 | 49.65 | 78 | 3.45 | 0.40 | 4.3 |
| 4/23/2015 14:42:22 | 53.48 | 49.98 | 72 | 3.69 | 0.40 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 14:42:27 | 53.81 | 50.31 | 72 | 3.66 | 0.40 | 3.9 |
| 4/23/2015 | 14:42:31 | 54.13 | 50.63 | 78 | 3.39 | 0.39 | 4.3 |
| 4/23/2015 | 14:42:38 | 54.46 | 50.96 | 55 | 3.25 | 0.39 | 3.0 |
| 4/23/2015 | 14:42:45 | 54.79 | 51.29 | 55 | 3.51 | 0.40 | 3.0 |
| 4/23/2015 | 14:42:52 | 55.12 | 51.62 | 49 | 2.88 | 0.40 | 2.7 |
| 4/23/2015 | 14:42:53 | 55.23 | 51.73 | 55 | 3.22 | 0.40 | 3.0 |

## H456 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:40:21

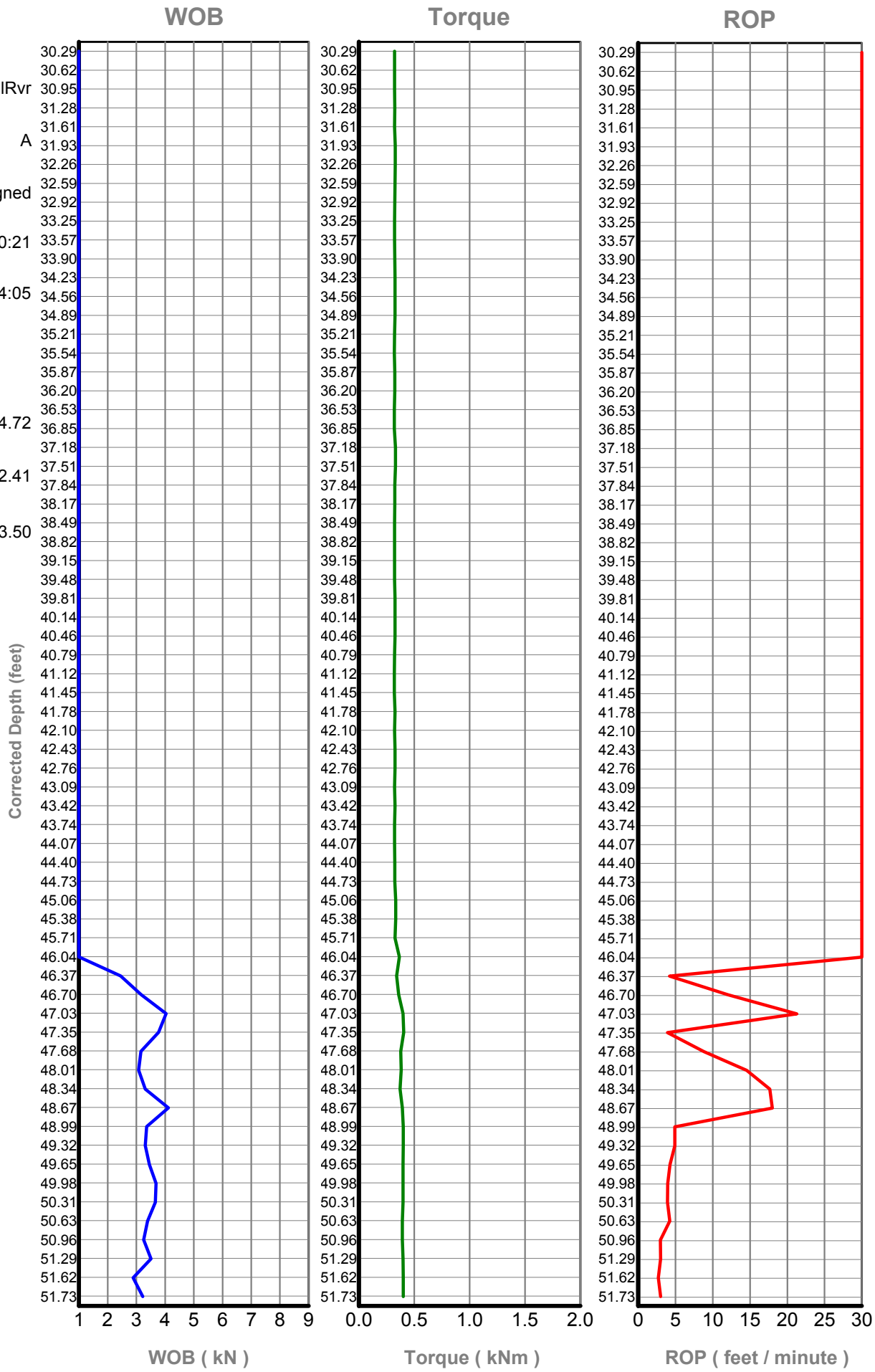
**End Date:**
4/23/2015 14:44:05

**Operator Note:**
'3.5 3.0 b Rock'

**Northing:**
366,844.72

**Easting:**
251,862.41

**Tide (feet):**
3.50



## Hole: H457 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:37:37 | 33.46 | 30.26 | 645 | 1.97 | 0.31 | 35.2 |
| 4/23/2015 14:37:38 | 33.79 | 30.59 | 643 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 14:37:38 | 34.12 | 30.92 | 647 | 1.97 | 0.31 | 35.4 |
| 4/23/2015 14:37:39 | 34.45 | 31.25 | 645 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 14:37:39 | 34.78 | 31.58 | 645 | 1.97 | 0.31 | 35.2 |
| 4/23/2015 14:37:40 | 35.11 | 31.91 | 645 | 1.96 | 0.30 | 35.2 |
| 4/23/2015 14:37:41 | 35.43 | 32.23 | 649 | 1.95 | 0.30 | 35.5 |
| 4/23/2015 14:37:41 | 35.76 | 32.56 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:37:42 | 36.09 | 32.89 | 648 | 1.97 | 0.31 | 35.4 |
| 4/23/2015 14:37:42 | 36.42 | 33.22 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 14:37:43 | 36.75 | 33.55 | 647 | 1.97 | 0.30 | 35.4 |
| 4/23/2015 14:37:43 | 37.07 | 33.87 | 645 | 1.96 | 0.30 | 35.2 |
| 4/23/2015 14:37:44 | 37.40 | 34.20 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:37:45 | 37.73 | 34.53 | 645 | 1.99 | 0.30 | 35.2 |
| 4/23/2015 14:37:45 | 38.06 | 34.86 | 642 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 14:37:46 | 38.39 | 35.19 | 641 | 1.97 | 0.30 | 35.0 |
| 4/23/2015 14:37:46 | 38.71 | 35.51 | 631 | 1.98 | 0.30 | 34.5 |
| 4/23/2015 14:37:47 | 39.04 | 35.84 | 631 | 1.96 | 0.31 | 34.5 |
| 4/23/2015 14:37:47 | 39.37 | 36.17 | 642 | 1.99 | 0.31 | 35.1 |
| 4/23/2015 14:37:48 | 39.70 | 36.50 | 635 | 1.96 | 0.31 | 34.7 |
| 4/23/2015 14:37:48 | 40.03 | 36.83 | 638 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 14:37:49 | 40.35 | 37.15 | 642 | 1.96 | 0.31 | 35.1 |
| 4/23/2015 14:37:49 | 40.68 | 37.48 | 649 | 1.98 | 0.31 | 35.5 |
| 4/23/2015 14:37:50 | 41.01 | 37.81 | 645 | 1.98 | 0.31 | 35.3 |
| 4/23/2015 14:37:50 | 41.34 | 38.14 | 645 | 1.97 | 0.31 | 35.3 |
| 4/23/2015 14:37:51 | 41.67 | 38.47 | 645 | 1.99 | 0.31 | 35.3 |
| 4/23/2015 14:37:52 | 41.99 | 38.79 | 631 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 14:37:52 | 42.32 | 39.12 | 631 | 1.97 | 0.31 | 34.5 |
| 4/23/2015 14:37:53 | 42.65 | 39.45 | 637 | 2.00 | 0.31 | 34.8 |
| 4/23/2015 14:37:54 | 42.98 | 39.78 | 637 | 1.98 | 0.31 | 34.8 |
| 4/23/2015 14:37:54 | 43.31 | 40.11 | 621 | 1.99 | 0.31 | 34.0 |
| 4/23/2015 14:37:55 | 43.64 | 40.44 | 621 | 1.97 | 0.31 | 34.0 |
| 4/23/2015 14:37:55 | 43.96 | 40.76 | 641 | 2.04 | 0.31 | 35.0 |
| 4/23/2015 14:37:56 | 44.29 | 41.09 | 636 | 1.96 | 0.31 | 34.8 |
| 4/23/2015 14:37:56 | 44.62 | 41.42 | 629 | 1.98 | 0.31 | 34.4 |
| 4/23/2015 14:37:57 | 44.95 | 41.75 | 629 | 1.96 | 0.31 | 34.4 |
| 4/23/2015 14:37:57 | 45.28 | 42.08 | 649 | 1.97 | 0.31 | 35.5 |
| 4/23/2015 14:37:58 | 45.60 | 42.40 | 639 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 14:37:58 | 45.93 | 42.73 | 642 | 1.98 | 0.31 | 35.1 |
| 4/23/2015 14:37:59 | 46.26 | 43.06 | 638 | 1.96 | 0.31 | 34.9 |
| 4/23/2015 14:37:59 | 46.59 | 43.39 | 645 | 1.99 | 0.31 | 35.3 |
| 4/23/2015 14:38:00 | 46.92 | 43.72 | 642 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 14:38:01 | 47.24 | 44.04 | 635 | 1.97 | 0.31 | 34.7 |
| 4/23/2015 14:38:02 | 47.57 | 44.37 | 645 | 2.00 | 0.31 | 35.3 |
| 4/23/2015 14:38:02 | 47.90 | 44.70 | 639 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 14:38:03 | 48.23 | 45.03 | 639 | 1.98 | 0.31 | 34.9 |
| 4/23/2015 14:38:03 | 48.56 | 45.36 | 639 | 1.95 | 0.31 | 34.9 |
| 4/23/2015 14:38:04 | 48.88 | 45.68 | 642 | 1.98 | 0.31 | 35.1 |
| 4/23/2015 14:38:19 | 49.21 | 46.01 | 0 | 2.01 | 1.08 | 0.0 |
| 4/23/2015 14:38:20 | 49.54 | 46.34 | 49 | 1.96 | 1.15 | 2.7 |
| 4/23/2015 14:38:21 | 49.87 | 46.67 | 211 | 1.97 | 1.12 | 11.5 |
| 4/23/2015 14:38:22 | 50.20 | 47.00 | 297 | 1.98 | 1.39 | 16.3 |
| 4/23/2015 14:38:25 | 50.53 | 47.33 | 145 | 1.97 | 1.16 | 7.9 |
| 4/23/2015 14:38:28 | 50.85 | 47.65 | 66 | 1.99 | 1.25 | 3.6 |
| 4/23/2015 14:38:36 | 51.18 | 47.98 | 51 | 2.00 | 1.30 | 2.8 |
| 4/23/2015 14:38:42 | 51.51 | 48.31 | 50 | 2.00 | 1.21 | 2.8 |
| 4/23/2015 14:38:49 | 51.84 | 48.64 | 58 | 1.99 | 1.21 | 3.2 |
| 4/23/2015 14:38:56 | 52.17 | 48.97 | 49 | 1.98 | 1.24 | 2.7 |
| 4/23/2015 14:39:03 | 52.49 | 49.29 | 49 | 1.97 | 1.16 | 2.7 |
| 4/23/2015 14:39:05 | 52.55 | 49.35 | 49 | 1.97 | 1.26 | 2.7 |

## H457 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:35:39

**End Date:**
4/23/2015 14:40:37

**Operator Note:**
'3.2 3.0 C Auto Complete'

**Northing:**
366,889.46

**Easting:**
251,923.33

**Tide (feet):**
3.20



## Hole: H458 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:35:02 | 31.82 | 30.12 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 13:35:03 | 32.15 | 30.45 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 13:35:03 | 32.48 | 30.78 | 934 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 13:35:03 | 32.81 | 31.11 | 934 | 0.33 | 0.33 | 51.1 |
| 4/23/2015 13:35:04 | 33.14 | 31.44 | 926 | 0.33 | 0.31 | 50.6 |
| 4/23/2015 13:35:04 | 33.46 | 31.76 | 926 | 0.33 | 0.31 | 50.6 |
| 4/23/2015 13:35:04 | 33.79 | 32.09 | 926 | 0.33 | 0.31 | 50.6 |
| 4/23/2015 13:35:05 | 34.12 | 32.42 | 959 | 0.33 | 0.31 | 52.5 |
| 4/23/2015 13:35:06 | 34.45 | 32.75 | 933 | 0.37 | 0.31 | 51.0 |
| 4/23/2015 13:35:06 | 34.78 | 33.08 | 933 | 0.37 | 0.31 | 51.0 |
| 4/23/2015 13:35:06 | 35.11 | 33.41 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 13:35:07 | 35.43 | 33.73 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 13:35:07 | 35.76 | 34.06 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 13:35:07 | 36.09 | 34.39 | 945 | 0.32 | 0.31 | 51.7 |
| 4/23/2015 13:35:08 | 36.42 | 34.72 | 945 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 13:35:08 | 36.75 | 35.05 | 962 | 0.33 | 0.31 | 52.6 |
| 4/23/2015 13:35:09 | 37.07 | 35.37 | 962 | 0.33 | 0.31 | 52.6 |
| 4/23/2015 13:35:09 | 37.40 | 35.70 | 941 | 0.31 | 0.31 | 51.4 |
| 4/23/2015 13:35:09 | 37.73 | 36.03 | 969 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 13:35:10 | 38.06 | 36.36 | 969 | 0.33 | 0.31 | 53.0 |
| 4/23/2015 13:35:10 | 38.39 | 36.69 | 943 | 0.33 | 0.31 | 51.6 |
| 4/23/2015 13:35:10 | 38.71 | 37.01 | 960 | 0.33 | 0.31 | 52.5 |
| 4/23/2015 13:35:11 | 39.04 | 37.34 | 935 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 13:35:11 | 39.37 | 37.67 | 935 | 0.33 | 0.31 | 51.1 |
| 4/23/2015 13:35:11 | 39.70 | 38.00 | 939 | 0.33 | 0.31 | 51.3 |
| 4/23/2015 13:35:12 | 40.03 | 38.33 | 944 | 0.33 | 0.31 | 51.6 |
| 4/23/2015 13:35:12 | 40.35 | 38.65 | 947 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 13:35:13 | 40.68 | 38.98 | 947 | 0.33 | 0.32 | 51.8 |
| 4/23/2015 13:35:13 | 41.01 | 39.31 | 947 | 0.32 | 0.31 | 51.8 |
| 4/23/2015 13:35:13 | 41.34 | 39.64 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 13:35:14 | 41.67 | 39.97 | 944 | 0.33 | 0.32 | 51.6 |
| 4/23/2015 13:35:14 | 41.99 | 40.29 | 958 | 0.33 | 0.31 | 52.4 |
| 4/23/2015 13:35:14 | 42.32 | 40.62 | 967 | 0.33 | 0.31 | 52.9 |
| 4/23/2015 13:35:15 | 42.65 | 40.95 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 13:35:15 | 42.98 | 41.28 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 13:35:16 | 43.31 | 41.61 | 940 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 13:35:16 | 43.64 | 41.94 | 951 | 0.32 | 0.31 | 52.0 |
| 4/23/2015 13:35:17 | 43.96 | 42.26 | 951 | 0.32 | 0.31 | 52.0 |
| 4/23/2015 13:35:17 | 44.29 | 42.59 | 957 | 0.33 | 0.31 | 52.3 |
| 4/23/2015 13:35:17 | 44.62 | 42.92 | 957 | 0.33 | 0.32 | 52.3 |
| 4/23/2015 13:35:18 | 44.95 | 43.25 | 930 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 13:35:18 | 45.28 | 43.58 | 930 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 13:35:18 | 45.60 | 43.90 | 930 | 0.33 | 0.31 | 50.9 |
| 4/23/2015 13:35:19 | 45.93 | 44.23 | 957 | 0.35 | 0.31 | 52.3 |
| 4/23/2015 13:35:19 | 46.26 | 44.56 | 957 | 0.35 | 0.31 | 52.3 |
| 4/23/2015 13:35:19 | 46.59 | 44.89 | 949 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 13:35:20 | 46.92 | 45.22 | 949 | 0.33 | 0.31 | 51.9 |
| 4/23/2015 13:35:20 | 47.24 | 45.54 | 943 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 13:35:21 | 47.57 | 45.87 | 943 | 0.33 | 0.31 | 51.5 |
| 4/23/2015 13:35:21 | 47.90 | 46.20 | 945 | 0.33 | 0.31 | 51.7 |
| 4/23/2015 13:35:21 | 48.23 | 46.53 | 969 | 0.35 | 0.32 | 53.0 |
| 4/23/2015 13:35:22 | 48.56 | 46.86 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 13:35:22 | 48.88 | 47.18 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 13:35:26 | 49.21 | 47.51 | 0 | 3.58 | 0.35 | 0.0 |
| 4/23/2015 13:35:29 | 49.54 | 47.84 | 145 | 4.65 | 0.39 | 7.9 |
| 4/23/2015 13:35:33 | 49.87 | 48.17 | 100 | 3.30 | 0.39 | 5.4 |
| 4/23/2015 13:35:41 | 50.20 | 48.50 | 43 | 3.03 | 0.39 | 2.4 |
| 4/23/2015 13:35:49 | 50.53 | 48.83 | 46 | 3.19 | 0.40 | 2.5 |
| 4/23/2015 13:35:57 | 50.85 | 49.15 | 40 | 3.43 | 0.39 | 2.2 |
| 4/23/2015 13:36:00 | 50.98 | 49.28 | 43 | 3.05 | 0.39 | 2.4 |

## H458 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:33:22

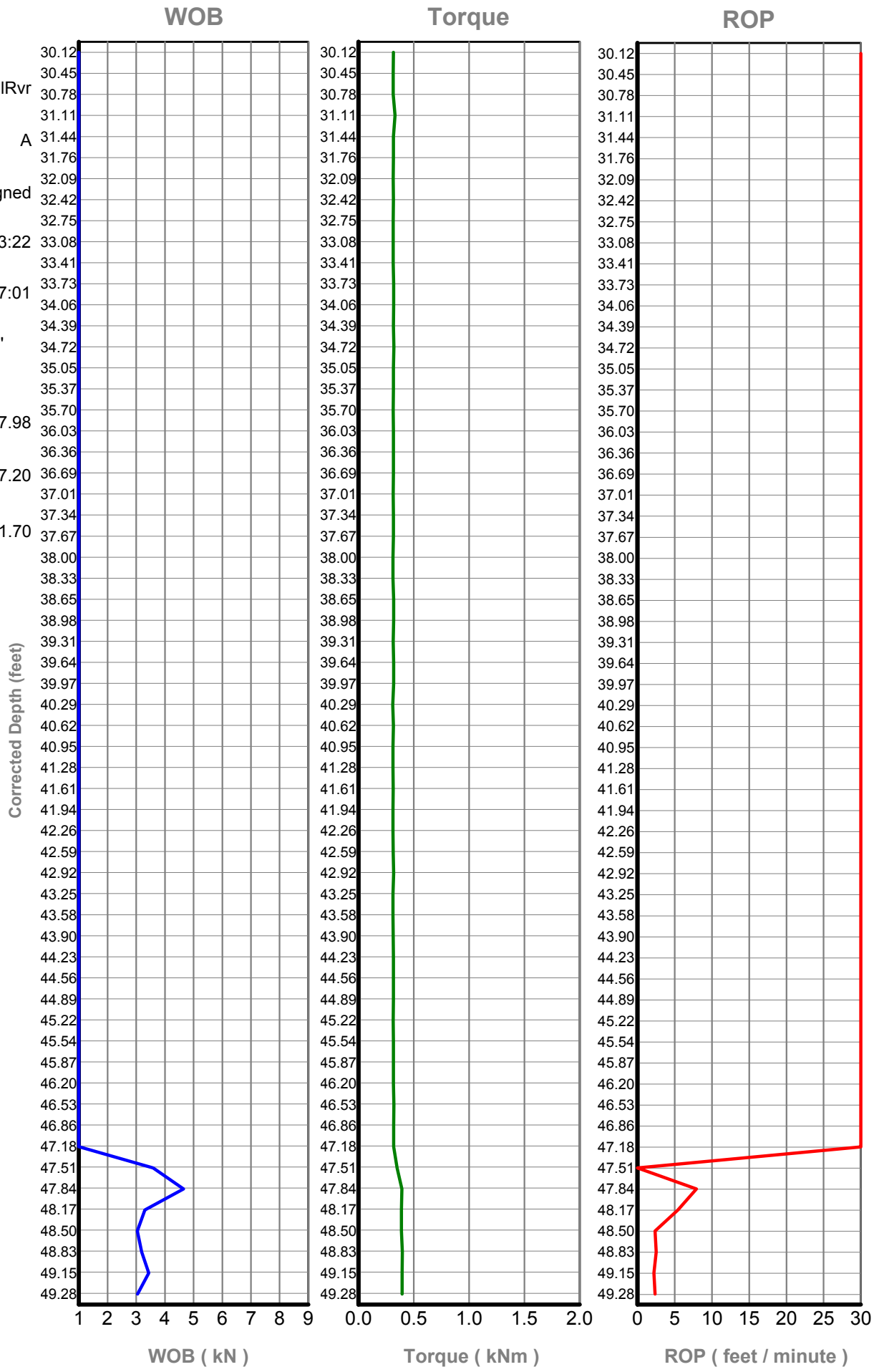
**End Date:**
4/23/2015 13:37:01

**Operator Note:**
'1.7 1.4b Auto Complete'

**Northing:**
366,947.98

**Easting:**
251,987.20

**Tide (feet):**
1.70



## Hole: H459 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:31:20 | 31.82 | 30.12 | 852 | 0.41 | 0.32 | 46.6 |
| 4/23/2015 13:31:20 | 32.15 | 30.45 | 854 | 0.42 | 0.31 | 46.7 |
| 4/23/2015 13:31:21 | 32.48 | 30.78 | 854 | 0.41 | 0.32 | 46.7 |
| 4/23/2015 13:31:21 | 32.81 | 31.11 | 854 | 0.41 | 0.32 | 46.7 |
| 4/23/2015 13:31:21 | 33.14 | 31.44 | 864 | 0.41 | 0.32 | 47.3 |
| 4/23/2015 13:31:22 | 33.46 | 31.76 | 851 | 0.40 | 0.32 | 46.6 |
| 4/23/2015 13:31:22 | 33.79 | 32.09 | 863 | 0.41 | 0.32 | 47.2 |
| 4/23/2015 13:31:23 | 34.12 | 32.42 | 863 | 0.41 | 0.32 | 47.2 |
| 4/23/2015 13:31:23 | 34.45 | 32.75 | 863 | 0.41 | 0.32 | 47.2 |
| 4/23/2015 13:31:23 | 34.78 | 33.08 | 875 | 0.41 | 0.32 | 47.9 |
| 4/23/2015 13:31:24 | 35.11 | 33.41 | 875 | 0.41 | 0.32 | 47.9 |
| 4/23/2015 13:31:24 | 35.43 | 33.73 | 883 | 0.41 | 0.32 | 48.3 |
| 4/23/2015 13:31:25 | 35.76 | 34.06 | 883 | 0.41 | 0.32 | 48.3 |
| 4/23/2015 13:31:25 | 36.09 | 34.39 | 867 | 0.41 | 0.32 | 47.4 |
| 4/23/2015 13:31:25 | 36.42 | 34.72 | 878 | 0.41 | 0.32 | 48.0 |
| 4/23/2015 13:31:26 | 36.75 | 35.05 | 889 | 0.41 | 0.32 | 48.6 |
| 4/23/2015 13:31:26 | 37.07 | 35.37 | 889 | 0.41 | 0.32 | 48.6 |
| 4/23/2015 13:31:26 | 37.40 | 35.70 | 880 | 0.39 | 0.32 | 48.1 |
| 4/23/2015 13:31:27 | 37.73 | 36.03 | 868 | 0.39 | 0.32 | 47.5 |
| 4/23/2015 13:31:28 | 38.06 | 36.36 | 869 | 0.39 | 0.32 | 47.5 |
| 4/23/2015 13:31:28 | 38.39 | 36.69 | 866 | 0.38 | 0.32 | 47.4 |
| 4/23/2015 13:31:29 | 38.71 | 37.01 | 866 | 0.38 | 0.32 | 47.4 |
| 4/23/2015 13:31:29 | 39.04 | 37.34 | 846 | 0.39 | 0.32 | 46.3 |
| 4/23/2015 13:31:29 | 39.37 | 37.67 | 846 | 0.39 | 0.32 | 46.3 |
| 4/23/2015 13:31:30 | 39.70 | 38.00 | 856 | 0.39 | 0.30 | 46.8 |
| 4/23/2015 13:31:30 | 40.03 | 38.33 | 856 | 0.39 | 0.30 | 46.8 |
| 4/23/2015 13:31:30 | 40.35 | 38.65 | 870 | 0.32 | 0.31 | 47.6 |
| 4/23/2015 13:31:31 | 40.68 | 38.98 | 870 | 0.31 | 0.32 | 47.6 |
| 4/23/2015 13:31:31 | 41.01 | 39.31 | 880 | 0.32 | 0.32 | 48.1 |
| 4/23/2015 13:31:32 | 41.34 | 39.64 | 880 | 0.32 | 0.32 | 48.1 |
| 4/23/2015 13:31:32 | 41.67 | 39.97 | 898 | 0.31 | 0.31 | 49.1 |
| 4/23/2015 13:31:32 | 41.99 | 40.29 | 898 | 0.32 | 0.32 | 49.1 |
| 4/23/2015 13:31:33 | 42.32 | 40.62 | 916 | 0.32 | 0.31 | 50.1 |
| 4/23/2015 13:31:33 | 42.65 | 40.95 | 916 | 0.32 | 0.31 | 50.1 |
| 4/23/2015 13:31:33 | 42.98 | 41.28 | 916 | 0.31 | 0.32 | 50.1 |
| 4/23/2015 13:31:34 | 43.31 | 41.61 | 934 | 0.31 | 0.32 | 51.1 |
| 4/23/2015 13:31:34 | 43.64 | 41.94 | 931 | 0.32 | 0.31 | 50.9 |
| 4/23/2015 13:31:35 | 43.96 | 42.26 | 931 | 0.32 | 0.31 | 50.9 |
| 4/23/2015 13:31:35 | 44.29 | 42.59 | 906 | 0.31 | 0.31 | 49.6 |
| 4/23/2015 13:31:35 | 44.62 | 42.92 | 906 | 0.32 | 0.31 | 49.6 |
| 4/23/2015 13:31:36 | 44.95 | 43.25 | 929 | 0.32 | 0.31 | 50.8 |
| 4/23/2015 13:31:36 | 45.28 | 43.58 | 929 | 0.32 | 0.31 | 50.8 |
| 4/23/2015 13:31:36 | 45.60 | 43.90 | 940 | 0.31 | 0.32 | 51.4 |
| 4/23/2015 13:31:37 | 45.93 | 44.23 | 921 | 0.32 | 0.32 | 50.4 |
| 4/23/2015 13:31:38 | 46.26 | 44.56 | 916 | 0.32 | 0.31 | 50.1 |
| 4/23/2015 13:31:38 | 46.59 | 44.89 | 916 | 0.32 | 0.31 | 50.1 |
| 4/23/2015 13:31:38 | 46.92 | 45.22 | 920 | 0.32 | 0.32 | 50.3 |
| 4/23/2015 13:31:39 | 47.24 | 45.54 | 903 | 0.32 | 0.32 | 49.4 |
| 4/23/2015 13:31:39 | 47.57 | 45.87 | 903 | 0.32 | 0.32 | 49.4 |
| 4/23/2015 13:31:39 | 47.90 | 46.20 | 909 | 0.32 | 0.32 | 49.7 |
| 4/23/2015 13:31:40 | 48.23 | 46.53 | 915 | 0.32 | 0.32 | 50.0 |
| 4/23/2015 13:31:40 | 48.56 | 46.86 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 13:31:41 | 48.88 | 47.18 | 923 | 0.32 | 0.32 | 50.5 |
| 4/23/2015 13:31:41 | 49.21 | 47.51 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 13:31:41 | 49.54 | 47.84 | 927 | 0.32 | 0.32 | 50.7 |
| 4/23/2015 13:31:42 | 49.87 | 48.17 | 936 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 13:31:42 | 50.20 | 48.50 | 936 | 0.32 | 0.32 | 51.2 |
| 4/23/2015 13:31:42 | 50.53 | 48.83 | 933 | 0.35 | 0.32 | 51.0 |
| 4/23/2015 13:31:43 | 50.85 | 49.15 | 931 | 0.32 | 0.32 | 50.9 |
| 4/23/2015 13:31:43 | 51.18 | 49.48 | 931 | 0.32 | 0.31 | 50.9 |
| 4/23/2015 13:31:44 | 51.51 | 49.81 | 931 | 0.32 | 0.31 | 50.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:31:44 | 51.84 | 50.14 | 938 | 0.31 | 0.32 | 51.3 |
| 4/23/2015 | 13:31:44 | 52.17 | 50.47 | 911 | 0.32 | 0.31 | 49.8 |
| 4/23/2015 | 13:31:45 | 52.49 | 50.79 | 911 | 0.32 | 0.31 | 49.8 |
| 4/23/2015 | 13:31:45 | 52.82 | 51.12 | 911 | 0.32 | 0.31 | 49.8 |
| 4/23/2015 | 13:31:45 | 53.15 | 51.45 | 912 | 0.31 | 0.34 | 49.9 |
| 4/23/2015 | 13:31:53 | 53.48 | 51.78 | 61 | 2.14 | 0.31 | 3.3 |
| 4/23/2015 | 13:31:53 | 53.81 | 52.11 | 61 | 2.14 | 0.31 | 3.3 |
| 4/23/2015 | 13:31:53 | 54.13 | 52.43 | 258 | 2.23 | 0.32 | 14.1 |
| 4/23/2015 | 13:31:54 | 54.46 | 52.76 | 435 | 2.61 | 0.33 | 23.8 |
| 4/23/2015 | 13:31:54 | 54.79 | 53.09 | 587 | 2.53 | 0.33 | 32.1 |
| 4/23/2015 | 13:31:55 | 55.12 | 53.42 | 743 | 2.79 | 0.33 | 40.6 |
| 4/23/2015 | 13:31:55 | 55.45 | 53.75 | 827 | 2.67 | 0.34 | 45.2 |
| 4/23/2015 | 13:31:56 | 55.77 | 54.07 | 827 | 2.84 | 0.35 | 45.2 |
| 4/23/2015 | 13:31:56 | 56.10 | 54.40 | 758 | 3.42 | 0.37 | 41.4 |
| 4/23/2015 | 13:31:58 | 56.43 | 54.73 | 535 | 3.62 | 0.36 | 29.3 |
| 4/23/2015 | 13:31:58 | 56.61 | 54.91 | 453 | 3.05 | 0.36 | 24.8 |

## H459 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:29:07

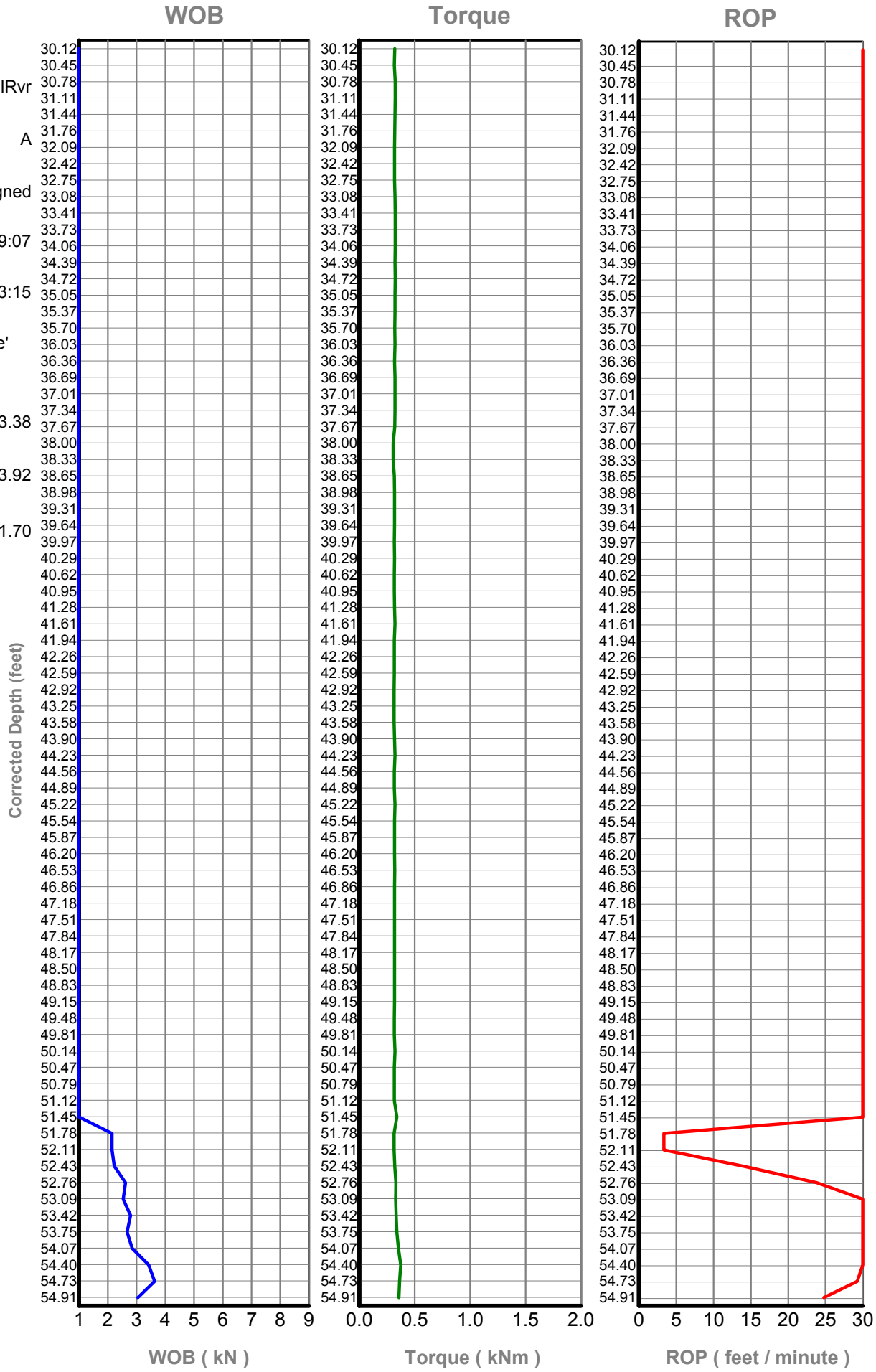
**End Date:**
4/23/2015 13:33:15

**Operator Note:**
'1.7 1.4 b Auto Complete'

**Northing:**
366,983.38

**Easting:**
252,033.92

**Tide (feet):**
1.70



## Hole: H46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:16:29 | 34.12 | 30.02 | 976 | 0.34 | 0.32 | 53.3 |
| 4/27/2015 5:16:30 | 34.45 | 30.35 | 975 | 0.33 | 0.32 | 53.3 |
| 4/27/2015 5:16:30 | 34.78 | 30.68 | 975 | 0.33 | 0.32 | 53.3 |
| 4/27/2015 5:16:30 | 35.11 | 31.01 | 981 | 0.33 | 0.33 | 53.7 |
| 4/27/2015 5:16:31 | 35.43 | 31.33 | 995 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 5:16:31 | 35.76 | 31.66 | 995 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 5:16:31 | 36.09 | 31.99 | 990 | 0.34 | 0.32 | 54.1 |
| 4/27/2015 5:16:32 | 36.42 | 32.32 | 1,001 | 0.34 | 0.32 | 54.7 |
| 4/27/2015 5:16:32 | 36.75 | 32.65 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:16:33 | 37.07 | 32.97 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:16:33 | 37.40 | 33.30 | 992 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:16:34 | 37.73 | 33.63 | 994 | 0.34 | 0.33 | 54.4 |
| 4/27/2015 5:16:34 | 38.06 | 33.96 | 994 | 0.34 | 0.33 | 54.4 |
| 4/27/2015 5:16:34 | 38.39 | 34.29 | 992 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 5:16:35 | 38.71 | 34.61 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:35 | 39.04 | 34.94 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:35 | 39.37 | 35.27 | 989 | 0.34 | 0.33 | 54.1 |
| 4/27/2015 5:16:36 | 39.70 | 35.60 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:36 | 40.03 | 35.93 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:36 | 40.35 | 36.25 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:16:37 | 40.68 | 36.58 | 977 | 0.34 | 0.32 | 53.4 |
| 4/27/2015 5:16:37 | 41.01 | 36.91 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 5:16:38 | 41.34 | 37.24 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 5:16:38 | 41.67 | 37.57 | 992 | 0.34 | 0.33 | 54.3 |
| 4/27/2015 5:16:38 | 41.99 | 37.89 | 989 | 0.37 | 0.32 | 54.1 |
| 4/27/2015 5:16:39 | 42.32 | 38.22 | 989 | 0.37 | 0.32 | 54.1 |
| 4/27/2015 5:16:39 | 42.65 | 38.55 | 981 | 0.34 | 0.32 | 53.7 |
| 4/27/2015 5:16:39 | 42.98 | 38.88 | 992 | 0.34 | 0.32 | 54.3 |
| 4/27/2015 5:16:40 | 43.31 | 39.21 | 992 | 0.34 | 0.32 | 54.3 |
| 4/27/2015 5:16:40 | 43.64 | 39.54 | 989 | 0.35 | 0.32 | 54.1 |
| 4/27/2015 5:16:40 | 43.96 | 39.86 | 983 | 0.34 | 0.32 | 53.8 |
| 4/27/2015 5:16:41 | 44.29 | 40.19 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 5:16:41 | 44.62 | 40.52 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 5:16:41 | 44.95 | 40.85 | 992 | 0.34 | 0.33 | 54.2 |
| 4/27/2015 5:16:42 | 45.28 | 41.18 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:42 | 45.60 | 41.50 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:16:42 | 45.93 | 41.83 | 977 | 0.34 | 0.33 | 53.4 |
| 4/27/2015 5:16:43 | 46.26 | 42.16 | 980 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 5:16:44 | 46.59 | 42.49 | 980 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 5:16:43 | 46.92 | 42.82 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 5:16:44 | 47.24 | 43.14 | 977 | 0.34 | 0.32 | 53.4 |
| 4/27/2015 5:16:45 | 47.57 | 43.47 | 977 | 0.35 | 0.33 | 53.4 |
| 4/27/2015 5:16:45 | 47.90 | 43.80 | 977 | 0.35 | 0.33 | 53.4 |
| 4/27/2015 5:16:45 | 48.23 | 44.13 | 971 | 0.34 | 0.32 | 53.1 |
| 4/27/2015 5:16:46 | 48.56 | 44.46 | 980 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 5:16:46 | 48.88 | 44.78 | 980 | 0.34 | 0.33 | 53.6 |
| 4/27/2015 5:16:46 | 49.21 | 45.11 | 974 | 0.35 | 0.33 | 53.3 |
| 4/27/2015 5:16:47 | 49.54 | 45.44 | 971 | 0.34 | 0.33 | 53.1 |
| 4/27/2015 5:16:47 | 49.87 | 45.77 | 971 | 0.34 | 0.33 | 53.1 |
| 4/27/2015 5:16:47 | 50.20 | 46.10 | 958 | 0.34 | 0.33 | 52.4 |
| 4/27/2015 5:16:48 | 50.53 | 46.43 | 973 | 0.34 | 0.35 | 53.2 |
| 4/27/2015 5:16:48 | 50.85 | 46.75 | 929 | 0.32 | 0.38 | 50.8 |
| 4/27/2015 5:17:19 | 51.18 | 47.08 | 29 | 3.64 | 0.40 | 1.6 |
| 4/27/2015 5:17:22 | 51.51 | 47.41 | 121 | 4.32 | 0.40 | 6.6 |
| 4/27/2015 5:17:26 | 51.84 | 47.74 | 108 | 4.30 | 0.41 | 5.9 |
| 4/27/2015 5:17:35 | 52.17 | 48.07 | 64 | 3.71 | 0.39 | 3.5 |
| 4/27/2015 5:17:38 | 52.49 | 48.39 | 107 | 3.90 | 0.40 | 5.8 |
| 4/27/2015 5:17:40 | 52.82 | 48.72 | 168 | 3.67 | 0.39 | 9.2 |
| 4/27/2015 5:17:42 | 53.15 | 49.05 | 179 | 3.75 | 0.40 | 9.8 |
| 4/27/2015 5:17:44 | 53.48 | 49.38 | 142 | 3.90 | 0.40 | 7.8 |
| 4/27/2015 5:17:48 | 53.81 | 49.71 | 96 | 3.76 | 0.40 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 5:17:53 | 54.13 | 50.03 | 84 | 3.75 | 0.40 | 4.6 |
| 4/27/2015 | 5:17:58 | 54.46 | 50.36 | 66 | 3.74 | 0.40 | 3.6 |
| 4/27/2015 | 5:18:05 | 54.79 | 50.69 | 58 | 3.54 | 0.40 | 3.2 |
| 4/27/2015 | 5:18:10 | 55.12 | 51.02 | 78 | 4.33 | 0.40 | 4.3 |
| 4/27/2015 | 5:18:15 | 55.45 | 51.35 | 84 | 4.13 | 0.41 | 4.6 |
| 4/27/2015 | 5:18:20 | 55.77 | 51.67 | 64 | 4.37 | 0.40 | 3.5 |
| 4/27/2015 | 5:18:25 | 56.10 | 52.00 | 87 | 4.32 | 0.39 | 4.7 |
| 4/27/2015 | 5:18:26 | 56.43 | 52.33 | 135 | 4.25 | 0.38 | 7.4 |
| 4/27/2015 | 5:18:27 | 56.76 | 52.66 | 234 | 2.99 | 0.38 | 12.8 |
| 4/27/2015 | 5:18:39 | 57.09 | 52.99 | 55 | 4.01 | 0.41 | 3.0 |
| 4/27/2015 | 5:18:44 | 57.41 | 53.31 | 72 | 4.07 | 0.39 | 3.9 |
| 4/27/2015 | 5:18:51 | 57.74 | 53.64 | 46 | 3.62 | 0.40 | 2.5 |
| 4/27/2015 | 5:18:57 | 58.07 | 53.97 | 52 | 3.41 | 0.41 | 2.8 |
| 4/27/2015 | 5:19:03 | 58.40 | 54.30 | 66 | 3.80 | 0.40 | 3.6 |
| 4/27/2015 | 5:19:08 | 58.73 | 54.63 | 60 | 3.37 | 0.41 | 3.3 |
| 4/27/2015 | 5:19:13 | 58.89 | 54.79 | 23 | 3.58 | 0.41 | 1.3 |

## H46 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:13:19

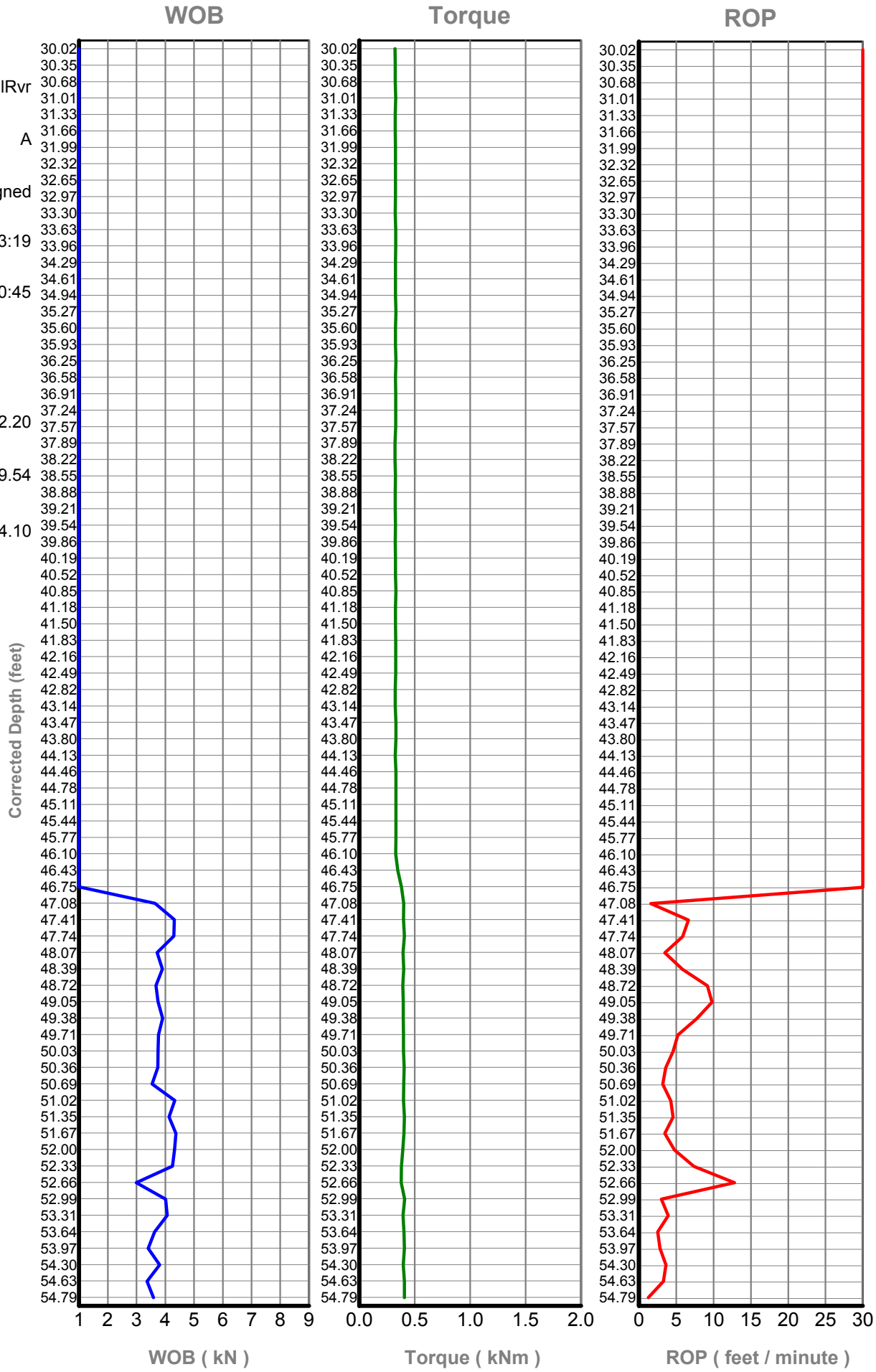
**End Date:**
4/27/2015 5:20:45

**Operator Note:**
'4.1 4 b Auto Complete'

**Northing:**
365,692.20

**Easting:**
249,229.54

**Tide (feet):**
4.10



## Hole: H460 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:34:41 | 31.82 | 30.12 | 614 | 2.00 | 0.31 | 33.6 |
| 4/23/2015 13:34:42 | 32.15 | 30.45 | 606 | 1.96 | 0.32 | 33.1 |
| 4/23/2015 13:34:42 | 32.48 | 30.78 | 624 | 2.12 | 0.31 | 34.1 |
| 4/23/2015 13:34:43 | 32.81 | 31.11 | 627 | 1.96 | 0.31 | 34.3 |
| 4/23/2015 13:34:43 | 33.14 | 31.44 | 625 | 1.98 | 0.31 | 34.2 |
| 4/23/2015 13:34:44 | 33.46 | 31.76 | 617 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 13:34:44 | 33.79 | 32.09 | 617 | 1.98 | 0.31 | 33.7 |
| 4/23/2015 13:34:45 | 34.12 | 32.42 | 640 | 1.97 | 0.32 | 35.0 |
| 4/23/2015 13:34:46 | 34.45 | 32.75 | 625 | 1.95 | 0.31 | 34.2 |
| 4/23/2015 13:34:46 | 34.78 | 33.08 | 625 | 1.95 | 0.31 | 34.2 |
| 4/23/2015 13:34:47 | 35.11 | 33.41 | 641 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 13:34:47 | 35.43 | 33.73 | 620 | 1.95 | 0.31 | 33.9 |
| 4/23/2015 13:34:48 | 35.76 | 34.06 | 620 | 1.98 | 0.31 | 33.9 |
| 4/23/2015 13:34:48 | 36.09 | 34.39 | 651 | 1.97 | 0.31 | 35.6 |
| 4/23/2015 13:34:49 | 36.42 | 34.72 | 630 | 1.98 | 0.31 | 34.5 |
| 4/23/2015 13:34:49 | 36.75 | 35.05 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 13:34:50 | 37.07 | 35.37 | 644 | 1.96 | 0.31 | 35.2 |
| 4/23/2015 13:34:51 | 37.40 | 35.70 | 651 | 1.96 | 0.31 | 35.6 |
| 4/23/2015 13:34:51 | 37.73 | 36.03 | 635 | 1.99 | 0.30 | 34.7 |
| 4/23/2015 13:34:52 | 38.06 | 36.36 | 642 | 1.98 | 0.30 | 35.1 |
| 4/23/2015 13:34:52 | 38.39 | 36.69 | 639 | 1.98 | 0.30 | 35.0 |
| 4/23/2015 13:34:53 | 38.71 | 37.01 | 639 | 1.97 | 0.31 | 35.0 |
| 4/23/2015 13:34:53 | 39.04 | 37.34 | 644 | 1.96 | 0.30 | 35.2 |
| 4/23/2015 13:34:54 | 39.37 | 37.67 | 657 | 1.96 | 0.30 | 35.9 |
| 4/23/2015 13:34:54 | 39.70 | 38.00 | 662 | 1.98 | 0.31 | 36.2 |
| 4/23/2015 13:34:55 | 40.03 | 38.33 | 662 | 1.97 | 0.31 | 36.2 |
| 4/23/2015 13:34:56 | 40.35 | 38.65 | 662 | 1.98 | 0.31 | 36.2 |
| 4/23/2015 13:34:56 | 40.68 | 38.98 | 646 | 1.98 | 0.31 | 35.3 |
| 4/23/2015 13:34:57 | 41.01 | 39.31 | 651 | 1.97 | 0.31 | 35.6 |
| 4/23/2015 13:34:57 | 41.34 | 39.64 | 647 | 1.97 | 0.31 | 35.4 |
| 4/23/2015 13:34:58 | 41.67 | 39.97 | 639 | 1.99 | 0.31 | 35.0 |
| 4/23/2015 13:34:58 | 41.99 | 40.29 | 639 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 13:34:59 | 42.32 | 40.62 | 644 | 1.97 | 0.31 | 35.2 |
| 4/23/2015 13:34:59 | 42.65 | 40.95 | 655 | 1.96 | 0.31 | 35.8 |
| 4/23/2015 13:35:00 | 42.98 | 41.28 | 651 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 13:35:01 | 43.31 | 41.61 | 656 | 1.97 | 0.31 | 35.9 |
| 4/23/2015 13:35:01 | 43.64 | 41.94 | 652 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 13:35:02 | 43.96 | 42.26 | 650 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 13:35:02 | 44.29 | 42.59 | 648 | 1.97 | 0.31 | 35.4 |
| 4/23/2015 13:35:03 | 44.62 | 42.92 | 648 | 1.96 | 0.31 | 35.4 |
| 4/23/2015 13:35:03 | 44.95 | 43.25 | 650 | 1.98 | 0.30 | 35.6 |
| 4/23/2015 13:35:04 | 45.28 | 43.58 | 654 | 1.98 | 0.31 | 35.8 |
| 4/23/2015 13:35:04 | 45.60 | 43.90 | 645 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 13:35:05 | 45.93 | 44.23 | 645 | 1.97 | 0.30 | 35.2 |
| 4/23/2015 13:35:05 | 46.26 | 44.56 | 645 | 1.96 | 0.29 | 35.2 |
| 4/23/2015 13:35:06 | 46.59 | 44.89 | 645 | 1.97 | 0.30 | 35.2 |
| 4/23/2015 13:35:07 | 46.92 | 45.22 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 13:35:07 | 47.24 | 45.54 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 13:35:08 | 47.57 | 45.87 | 644 | 1.96 | 0.30 | 35.2 |
| 4/23/2015 13:35:08 | 47.90 | 46.20 | 650 | 1.95 | 0.32 | 35.6 |
| 4/23/2015 13:35:09 | 48.23 | 46.53 | 648 | 1.97 | 0.30 | 35.4 |
| 4/23/2015 13:35:10 | 48.56 | 46.86 | 645 | 1.97 | 0.30 | 35.3 |
| 4/23/2015 13:35:10 | 48.88 | 47.18 | 633 | 1.96 | 0.30 | 34.6 |
| 4/23/2015 13:35:11 | 49.21 | 47.51 | 604 | 1.98 | 0.30 | 33.0 |
| 4/23/2015 13:35:11 | 49.54 | 47.84 | 584 | 1.97 | 0.30 | 31.9 |
| 4/23/2015 13:35:12 | 49.87 | 48.17 | 540 | 1.97 | 0.30 | 29.6 |
| 4/23/2015 13:35:13 | 50.20 | 48.50 | 529 | 1.99 | 0.30 | 28.9 |
| 4/23/2015 13:35:13 | 50.53 | 48.83 | 526 | 1.96 | 0.30 | 28.8 |
| 4/23/2015 13:35:14 | 50.85 | 49.15 | 517 | 1.93 | 0.30 | 28.3 |
| 4/23/2015 13:35:15 | 51.18 | 49.48 | 512 | 1.95 | 0.30 | 28.0 |
| 4/23/2015 13:35:15 | 51.51 | 49.81 | 509 | 1.98 | 0.30 | 27.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:35:17 | 51.84 | 50.14 | 506 | 1.98 | 0.32 | 27.7 |
| 4/23/2015 | 13:35:17 | 52.17 | 50.47 | 503 | 1.97 | 0.30 | 27.5 |
| 4/23/2015 | 13:35:18 | 52.49 | 50.79 | 500 | 1.98 | 0.30 | 27.3 |
| 4/23/2015 | 13:35:43 | 52.82 | 51.12 | 51 | 2.00 | 1.06 | 2.8 |
| 4/23/2015 | 13:35:43 | 53.15 | 51.45 | 157 | 2.00 | 1.06 | 8.6 |
| 4/23/2015 | 13:35:44 | 53.48 | 51.78 | 269 | 1.99 | 1.06 | 14.7 |
| 4/23/2015 | 13:35:44 | 53.81 | 52.11 | 377 | 2.00 | 1.05 | 20.6 |
| 4/23/2015 | 13:35:45 | 54.13 | 52.43 | 544 | 1.98 | 1.06 | 29.7 |
| 4/23/2015 | 13:35:46 | 54.46 | 52.76 | 549 | 1.98 | 1.05 | 30.0 |
| 4/23/2015 | 13:35:46 | 54.79 | 53.09 | 546 | 1.99 | 1.07 | 29.9 |
| 4/23/2015 | 13:35:47 | 55.12 | 53.42 | 514 | 1.97 | 1.18 | 28.1 |
| 4/23/2015 | 13:35:48 | 55.45 | 53.75 | 482 | 1.94 | 1.11 | 26.4 |
| 4/23/2015 | 13:35:49 | 55.77 | 54.07 | 454 | 2.00 | 1.04 | 24.8 |
| 4/23/2015 | 13:35:50 | 56.10 | 54.40 | 457 | 1.99 | 1.03 | 25.0 |
| 4/23/2015 | 13:35:50 | 56.43 | 54.73 | 474 | 1.95 | 1.04 | 25.9 |
| 4/23/2015 | 13:35:51 | 56.76 | 55.06 | 515 | 1.97 | 1.02 | 28.1 |
| 4/23/2015 | 13:35:52 | 56.94 | 55.24 | 506 | 1.83 | 1.02 | 27.6 |

## H460 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:33:03

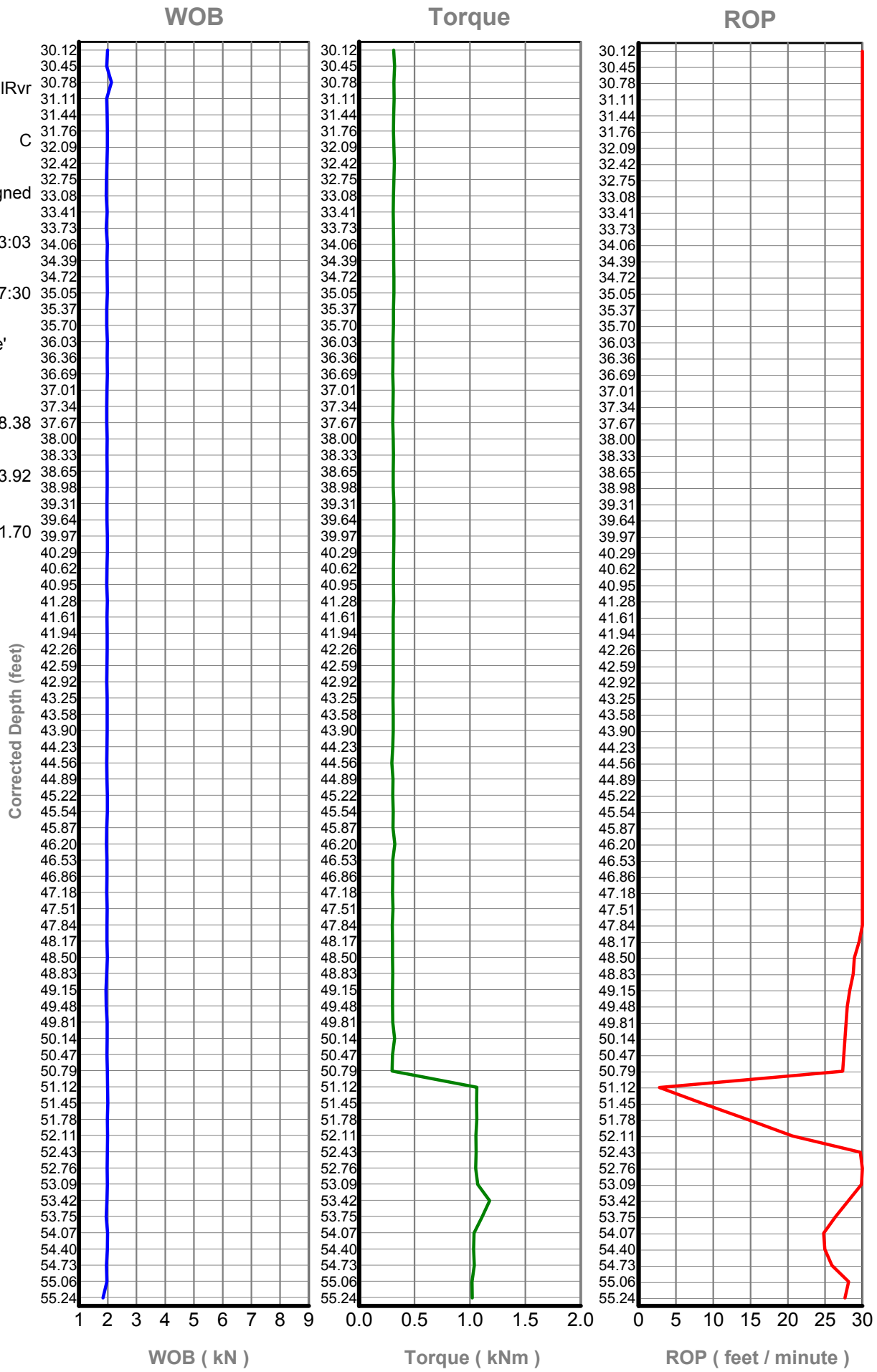
**End Date:**
4/23/2015 13:37:30

**Operator Note:**
'1.7 1.5C Auto Complete'

**Northing:**
367,028.38

**Easting:**
252,093.92

**Tide (feet):**
1.70



## Hole: H461 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:23:13 | 33.14 | 30.24 | 949 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 14:23:14 | 33.46 | 30.56 | 949 | 0.32 | 0.32 | 51.9 |
| 4/23/2015 14:23:14 | 33.79 | 30.89 | 944 | 0.32 | 0.32 | 51.6 |
| 4/23/2015 14:23:14 | 34.12 | 31.22 | 944 | 0.32 | 0.32 | 51.6 |
| 4/23/2015 14:23:15 | 34.45 | 31.55 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 14:23:15 | 34.78 | 31.88 | 939 | 0.33 | 0.32 | 51.4 |
| 4/23/2015 14:23:15 | 35.11 | 32.21 | 939 | 0.33 | 0.31 | 51.4 |
| 4/23/2015 14:23:16 | 35.43 | 32.53 | 958 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 14:23:16 | 35.76 | 32.86 | 958 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 14:23:16 | 36.09 | 33.19 | 958 | 0.32 | 0.32 | 52.4 |
| 4/23/2015 14:23:17 | 36.42 | 33.52 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:23:17 | 36.75 | 33.85 | 970 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:23:18 | 37.07 | 34.17 | 970 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:23:18 | 37.40 | 34.50 | 968 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:23:18 | 37.73 | 34.83 | 964 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 14:23:19 | 38.06 | 35.16 | 964 | 0.32 | 0.32 | 52.7 |
| 4/23/2015 14:23:19 | 38.39 | 35.49 | 968 | 0.32 | 0.31 | 52.9 |
| 4/23/2015 14:23:19 | 38.71 | 35.81 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 14:23:20 | 39.04 | 36.14 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 14:23:21 | 39.37 | 36.47 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 14:23:21 | 39.70 | 36.80 | 963 | 0.33 | 0.32 | 52.6 |
| 4/23/2015 14:23:21 | 40.03 | 37.13 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 14:23:22 | 40.35 | 37.45 | 957 | 0.32 | 0.32 | 52.3 |
| 4/23/2015 14:23:22 | 40.68 | 37.78 | 972 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:23:22 | 41.01 | 38.11 | 969 | 0.33 | 0.32 | 53.0 |
| 4/23/2015 14:23:23 | 41.34 | 38.44 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 14:23:23 | 41.67 | 38.77 | 966 | 0.33 | 0.32 | 52.8 |
| 4/23/2015 14:23:23 | 41.99 | 39.09 | 963 | 0.33 | 0.32 | 52.7 |
| 4/23/2015 14:23:24 | 42.32 | 39.42 | 969 | 0.33 | 0.32 | 53.0 |
| 4/23/2015 14:23:24 | 42.65 | 39.75 | 969 | 0.33 | 0.32 | 53.0 |
| 4/23/2015 14:23:24 | 42.98 | 40.08 | 954 | 0.37 | 0.32 | 52.2 |
| 4/23/2015 14:23:25 | 43.31 | 40.41 | 940 | 0.37 | 0.32 | 51.4 |
| 4/23/2015 14:23:25 | 43.64 | 40.74 | 955 | 0.36 | 0.32 | 52.2 |
| 4/23/2015 14:23:26 | 43.96 | 41.06 | 955 | 0.36 | 0.32 | 52.2 |
| 4/23/2015 14:23:26 | 44.29 | 41.39 | 952 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 14:23:26 | 44.62 | 41.72 | 952 | 0.33 | 0.32 | 52.1 |
| 4/23/2015 14:23:27 | 44.95 | 42.05 | 955 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 14:23:27 | 45.28 | 42.38 | 955 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 14:23:27 | 45.60 | 42.70 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 14:23:28 | 45.93 | 43.03 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 14:23:28 | 46.26 | 43.36 | 960 | 0.33 | 0.32 | 52.5 |
| 4/23/2015 14:23:28 | 46.59 | 43.69 | 955 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 14:23:29 | 46.92 | 44.02 | 946 | 0.33 | 0.32 | 51.7 |
| 4/23/2015 14:23:29 | 47.24 | 44.34 | 952 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:23:30 | 47.57 | 44.67 | 952 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:23:30 | 47.90 | 45.00 | 954 | 0.34 | 0.32 | 52.2 |
| 4/23/2015 14:23:30 | 48.23 | 45.33 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 14:23:31 | 48.56 | 45.66 | 948 | 0.33 | 0.32 | 51.9 |
| 4/23/2015 14:23:31 | 48.88 | 45.98 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:23:32 | 49.21 | 46.31 | 954 | 0.33 | 0.32 | 52.2 |
| 4/23/2015 14:23:32 | 49.54 | 46.64 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:23:33 | 49.87 | 46.97 | 951 | 0.33 | 0.32 | 52.0 |
| 4/23/2015 14:23:33 | 50.20 | 47.30 | 948 | 0.31 | 0.33 | 51.9 |
| 4/23/2015 14:23:33 | 50.53 | 47.63 | 910 | 0.31 | 0.37 | 49.8 |
| 4/23/2015 14:23:41 | 50.85 | 47.95 | 15 | 2.05 | 0.32 | 0.8 |
| 4/23/2015 14:23:42 | 51.18 | 48.28 | 175 | 2.06 | 0.33 | 9.6 |
| 4/23/2015 14:23:42 | 51.51 | 48.61 | 366 | 2.44 | 0.34 | 20.0 |
| 4/23/2015 14:23:43 | 51.84 | 48.94 | 502 | 5.33 | 0.39 | 27.5 |
| 4/23/2015 14:23:46 | 52.17 | 49.27 | 394 | 4.43 | 0.40 | 21.6 |
| 4/23/2015 14:23:49 | 52.49 | 49.59 | 102 | 3.88 | 0.37 | 5.6 |
| 4/23/2015 14:23:50 | 52.82 | 49.92 | 230 | 4.21 | 0.37 | 12.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 14:23:52 | 53.15 | 50.25 | 293 | 4.69 | 0.37 | 16.0 |
| 4/23/2015 | 14:23:53 | 53.48 | 50.58 | 296 | 3.07 | 0.38 | 16.2 |
| 4/23/2015 | 14:23:56 | 53.81 | 50.91 | 98 | 3.61 | 0.39 | 5.3 |
| 4/23/2015 | 14:24:00 | 54.13 | 51.23 | 98 | 3.69 | 0.39 | 5.4 |
| 4/23/2015 | 14:24:05 | 54.46 | 51.56 | 83 | 3.63 | 0.46 | 4.5 |
| 4/23/2015 | 14:24:09 | 54.79 | 51.89 | 85 | 3.16 | 0.40 | 4.6 |
| 4/23/2015 | 14:24:13 | 55.12 | 52.22 | 85 | 3.42 | 0.39 | 4.7 |
| 4/23/2015 | 14:24:17 | 55.45 | 52.55 | 90 | 3.29 | 0.40 | 4.9 |
| 4/23/2015 | 14:24:21 | 55.77 | 52.87 | 78 | 3.31 | 0.39 | 4.3 |
| 4/23/2015 | 14:24:26 | 56.10 | 53.20 | 81 | 3.21 | 0.39 | 4.4 |
| 4/23/2015 | 14:24:29 | 56.43 | 53.53 | 95 | 3.30 | 0.39 | 5.2 |
| 4/23/2015 | 14:24:32 | 56.76 | 53.86 | 135 | 3.45 | 0.39 | 7.4 |
| 4/23/2015 | 14:24:36 | 57.09 | 54.19 | 90 | 3.26 | 0.39 | 4.9 |
| 4/23/2015 | 14:24:39 | 57.41 | 54.51 | 95 | 3.41 | 0.40 | 5.2 |
| 4/23/2015 | 14:24:42 | 57.69 | 54.79 | 89 | 3.62 | 0.40 | 4.9 |

## H461 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:21:28

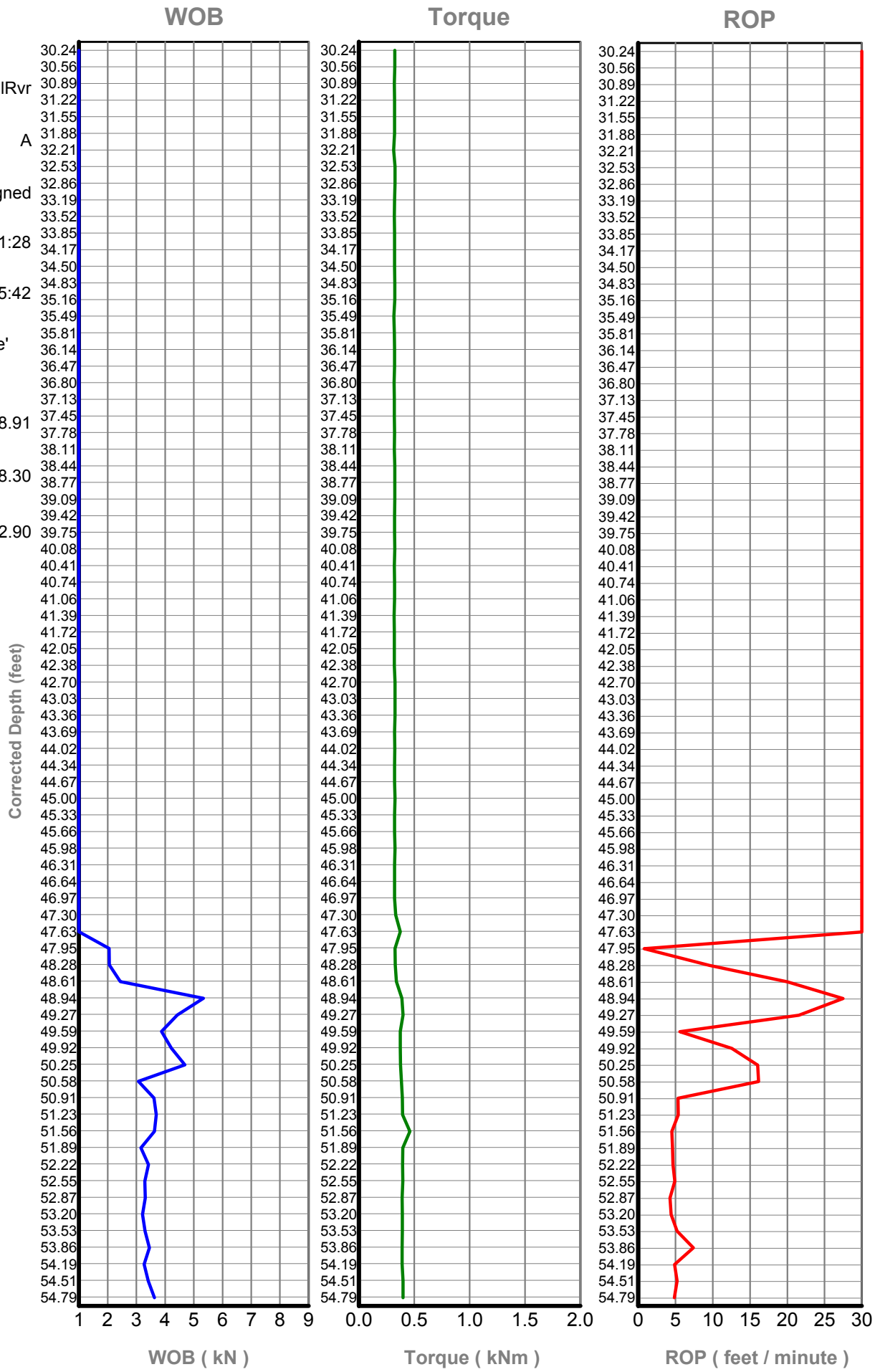
**End Date:**
4/23/2015 14:25:42

**Operator Note:**
'2.9 2.6 b Auto Complete'

**Northing:**
366,748.91

**Easting:**
251,858.30

**Tide (feet):**
2.90



## Hole: H462 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:18:31 | 33.14 | 30.24 | 974 | 0.31 | 0.32 | 53.3 |
| 4/23/2015 14:18:31 | 33.46 | 30.56 | 989 | 0.31 | 0.32 | 54.1 |
| 4/23/2015 14:18:32 | 33.79 | 30.89 | 992 | 0.32 | 0.32 | 54.2 |
| 4/23/2015 14:18:32 | 34.12 | 31.22 | 992 | 0.32 | 0.32 | 54.2 |
| 4/23/2015 14:18:32 | 34.45 | 31.55 | 989 | 0.29 | 0.32 | 54.1 |
| 4/23/2015 14:18:33 | 34.78 | 31.88 | 983 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:33 | 35.11 | 32.21 | 983 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:34 | 35.43 | 32.53 | 983 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:34 | 35.76 | 32.86 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 14:18:34 | 36.09 | 33.19 | 971 | 0.31 | 0.32 | 53.1 |
| 4/23/2015 14:18:35 | 36.42 | 33.52 | 971 | 0.31 | 0.32 | 53.1 |
| 4/23/2015 14:18:35 | 36.75 | 33.85 | 965 | 0.31 | 0.32 | 52.8 |
| 4/23/2015 14:18:35 | 37.07 | 34.17 | 974 | 0.31 | 0.32 | 53.3 |
| 4/23/2015 14:18:36 | 37.40 | 34.50 | 974 | 0.31 | 0.32 | 53.3 |
| 4/23/2015 14:18:36 | 37.73 | 34.83 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:18:36 | 38.06 | 35.16 | 971 | 0.31 | 0.32 | 53.1 |
| 4/23/2015 14:18:37 | 38.39 | 35.49 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 14:18:37 | 38.71 | 35.81 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 14:18:37 | 39.04 | 36.14 | 983 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:38 | 39.37 | 36.47 | 980 | 0.31 | 0.32 | 53.6 |
| 4/23/2015 14:18:38 | 39.70 | 36.80 | 980 | 0.31 | 0.32 | 53.6 |
| 4/23/2015 14:18:38 | 40.03 | 37.13 | 980 | 0.32 | 0.32 | 53.6 |
| 4/23/2015 14:18:39 | 40.35 | 37.45 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 14:18:40 | 40.68 | 37.78 | 977 | 0.31 | 0.32 | 53.4 |
| 4/23/2015 14:18:40 | 41.01 | 38.11 | 980 | 0.31 | 0.32 | 53.6 |
| 4/23/2015 14:18:40 | 41.34 | 38.44 | 971 | 0.31 | 0.32 | 53.1 |
| 4/23/2015 14:18:41 | 41.67 | 38.77 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:18:41 | 41.99 | 39.09 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:18:41 | 42.32 | 39.42 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 14:18:42 | 42.65 | 39.75 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 14:18:42 | 42.98 | 40.08 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 14:18:42 | 43.31 | 40.41 | 968 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 14:18:43 | 43.64 | 40.74 | 974 | 0.31 | 0.32 | 53.3 |
| 4/23/2015 14:18:43 | 43.96 | 41.06 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:18:44 | 44.29 | 41.39 | 971 | 0.32 | 0.32 | 53.1 |
| 4/23/2015 14:18:44 | 44.62 | 41.72 | 983 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:44 | 44.95 | 42.05 | 989 | 0.31 | 0.32 | 54.1 |
| 4/23/2015 14:18:45 | 45.28 | 42.38 | 989 | 0.31 | 0.32 | 54.1 |
| 4/23/2015 14:18:45 | 45.60 | 42.70 | 970 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:18:45 | 45.93 | 43.03 | 979 | 0.32 | 0.32 | 53.5 |
| 4/23/2015 14:18:46 | 46.26 | 43.36 | 979 | 0.32 | 0.32 | 53.5 |
| 4/23/2015 14:18:46 | 46.59 | 43.69 | 982 | 0.31 | 0.32 | 53.7 |
| 4/23/2015 14:18:46 | 46.92 | 44.02 | 970 | 0.31 | 0.32 | 53.0 |
| 4/23/2015 14:18:47 | 47.24 | 44.34 | 970 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:18:47 | 47.57 | 44.67 | 970 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:18:47 | 47.90 | 45.00 | 978 | 0.32 | 0.32 | 53.5 |
| 4/23/2015 14:18:48 | 48.23 | 45.33 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 14:18:48 | 48.56 | 45.66 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 14:18:48 | 48.88 | 45.98 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 14:18:49 | 49.21 | 46.31 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 14:18:50 | 49.54 | 46.64 | 975 | 0.32 | 0.32 | 53.3 |
| 4/23/2015 14:18:49 | 49.87 | 46.97 | 969 | 0.32 | 0.32 | 53.0 |
| 4/23/2015 14:18:50 | 50.20 | 47.30 | 983 | 0.30 | 0.34 | 53.7 |
| 4/23/2015 14:18:51 | 50.53 | 47.63 | 954 | 0.30 | 0.37 | 52.2 |
| 4/23/2015 14:18:59 | 50.85 | 47.95 | 71 | 2.56 | 0.32 | 3.9 |
| 4/23/2015 14:18:59 | 51.18 | 48.28 | 71 | 2.56 | 0.32 | 3.9 |
| 4/23/2015 14:18:59 | 51.51 | 48.61 | 265 | 2.55 | 0.32 | 14.5 |
| 4/23/2015 14:19:00 | 51.84 | 48.94 | 453 | 3.52 | 0.35 | 24.8 |
| 4/23/2015 14:19:02 | 52.17 | 49.27 | 370 | 4.42 | 0.39 | 20.2 |
| 4/23/2015 14:19:06 | 52.49 | 49.59 | 63 | 4.50 | 0.40 | 3.5 |
| 4/23/2015 14:19:13 | 52.82 | 49.92 | 61 | 3.69 | 0.40 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 14:19:18 | 53.15 | 50.25 | 59 | 3.48 | 0.40 | 3.2 |
| 4/23/2015 | 14:19:22 | 53.48 | 50.58 | 104 | 3.78 | 0.39 | 5.7 |
| 4/23/2015 | 14:19:27 | 53.81 | 50.91 | 64 | 3.33 | 0.40 | 3.5 |
| 4/23/2015 | 14:19:33 | 54.13 | 51.23 | 70 | 3.43 | 0.40 | 3.8 |
| 4/23/2015 | 14:19:36 | 54.46 | 51.56 | 78 | 3.37 | 0.38 | 4.3 |
| 4/23/2015 | 14:19:38 | 54.79 | 51.89 | 157 | 3.02 | 0.39 | 8.6 |
| 4/23/2015 | 14:19:42 | 55.12 | 52.22 | 71 | 3.28 | 0.40 | 3.9 |
| 4/23/2015 | 14:19:49 | 55.45 | 52.55 | 50 | 3.47 | 0.40 | 2.7 |
| 4/23/2015 | 14:19:55 | 55.77 | 52.87 | 54 | 3.14 | 0.40 | 3.0 |
| 4/23/2015 | 14:20:03 | 56.10 | 53.20 | 52 | 2.95 | 0.40 | 2.8 |
| 4/23/2015 | 14:20:07 | 56.33 | 53.43 | 58 | 3.43 | 0.39 | 3.2 |

## H462 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:15:07

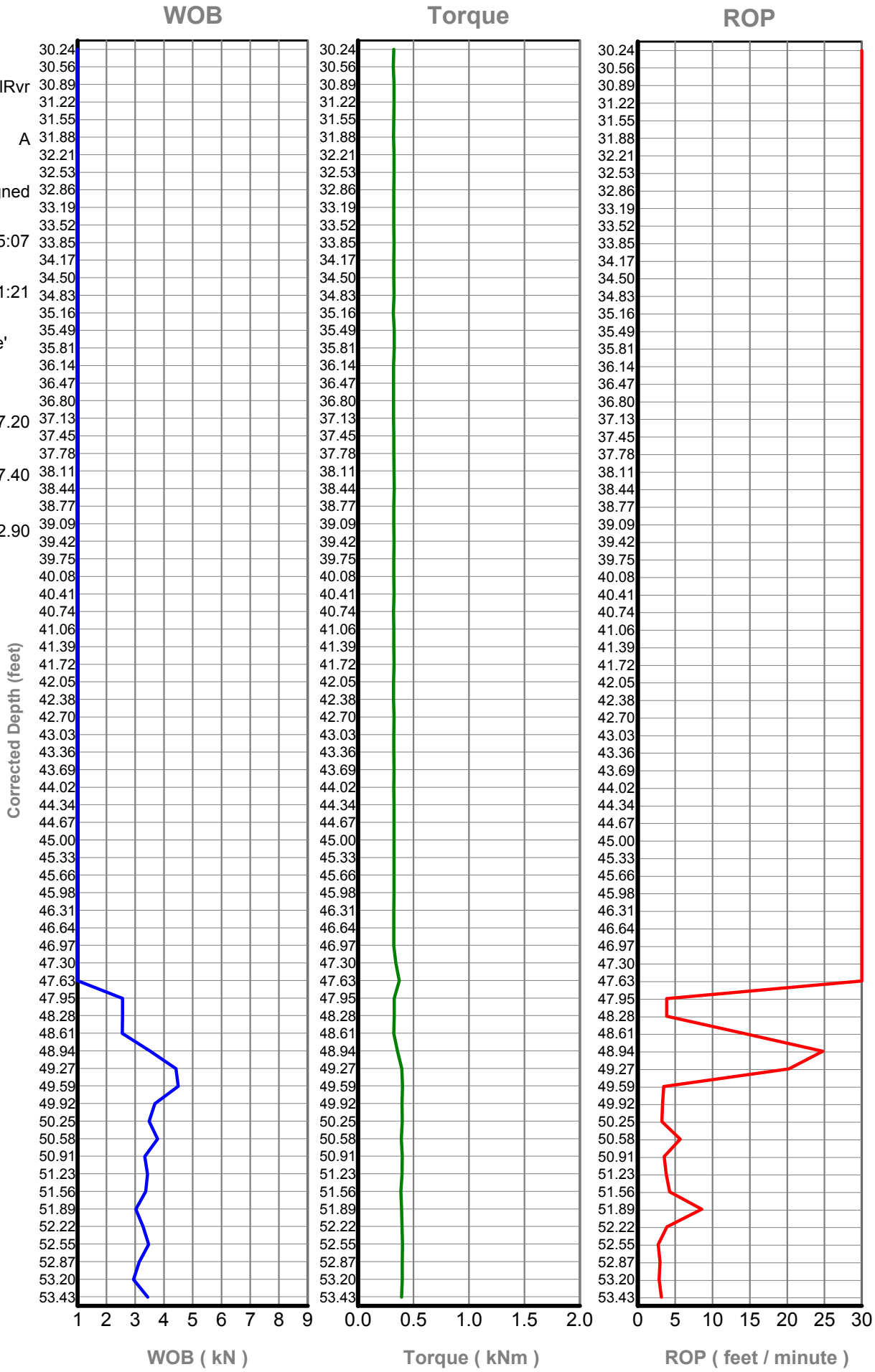
**End Date:**
4/23/2015 14:21:21

**Operator Note:**
'2.9 2.6 b Auto Complete'

**Northing:**
366,777.20

**Easting:**
251,897.40

**Tide (feet):**
2.90



## Hole: H463 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 14:19:47 | 33.14 | 30.24 | 656 | 1.99 | 0.31 | 35.9 |
| 4/23/2015 14:19:47 | 33.46 | 30.56 | 660 | 1.98 | 0.30 | 36.1 |
| 4/23/2015 14:19:48 | 33.79 | 30.89 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 14:19:49 | 34.12 | 31.22 | 650 | 1.98 | 0.31 | 35.5 |
| 4/23/2015 14:19:50 | 34.45 | 31.55 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 14:19:50 | 34.78 | 31.88 | 653 | 1.96 | 0.31 | 35.7 |
| 4/23/2015 14:19:51 | 35.11 | 32.21 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 14:19:51 | 35.43 | 32.53 | 656 | 1.95 | 0.31 | 35.9 |
| 4/23/2015 14:19:52 | 35.76 | 32.86 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 14:19:52 | 36.09 | 33.19 | 653 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 14:19:53 | 36.42 | 33.52 | 650 | 1.97 | 0.31 | 35.5 |
| 4/23/2015 14:19:53 | 36.75 | 33.85 | 656 | 1.98 | 0.31 | 35.9 |
| 4/23/2015 14:19:54 | 37.07 | 34.17 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 14:19:54 | 37.40 | 34.50 | 639 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 14:19:55 | 37.73 | 34.83 | 639 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 14:19:55 | 38.06 | 35.16 | 640 | 1.95 | 0.31 | 35.0 |
| 4/23/2015 14:19:56 | 38.39 | 35.49 | 640 | 1.97 | 0.31 | 35.0 |
| 4/23/2015 14:19:56 | 38.71 | 35.81 | 642 | 1.97 | 0.31 | 35.1 |
| 4/23/2015 14:19:57 | 39.04 | 36.14 | 644 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 14:19:58 | 39.37 | 36.47 | 644 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 14:19:58 | 39.70 | 36.80 | 642 | 1.96 | 0.31 | 35.1 |
| 4/23/2015 14:19:59 | 40.03 | 37.13 | 642 | 1.95 | 0.31 | 35.1 |
| 4/23/2015 14:19:59 | 40.35 | 37.45 | 658 | 1.98 | 0.31 | 36.0 |
| 4/23/2015 14:20:00 | 40.68 | 37.78 | 658 | 1.95 | 0.31 | 36.0 |
| 4/23/2015 14:20:01 | 41.01 | 38.11 | 652 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 14:20:01 | 41.34 | 38.44 | 652 | 1.96 | 0.31 | 35.6 |
| 4/23/2015 14:20:02 | 41.67 | 38.77 | 652 | 1.96 | 0.31 | 35.6 |
| 4/23/2015 14:20:02 | 41.99 | 39.09 | 657 | 1.99 | 0.30 | 36.0 |
| 4/23/2015 14:20:03 | 42.32 | 39.42 | 635 | 1.98 | 0.31 | 34.7 |
| 4/23/2015 14:20:03 | 42.65 | 39.75 | 635 | 1.96 | 0.31 | 34.7 |
| 4/23/2015 14:20:04 | 42.98 | 40.08 | 628 | 1.99 | 0.31 | 34.3 |
| 4/23/2015 14:20:04 | 43.31 | 40.41 | 642 | 1.95 | 0.31 | 35.1 |
| 4/23/2015 14:20:05 | 43.64 | 40.74 | 634 | 1.95 | 0.31 | 34.7 |
| 4/23/2015 14:20:05 | 43.96 | 41.06 | 634 | 1.97 | 0.31 | 34.7 |
| 4/23/2015 14:20:06 | 44.29 | 41.39 | 641 | 1.98 | 0.31 | 35.0 |
| 4/23/2015 14:20:06 | 44.62 | 41.72 | 658 | 1.97 | 0.30 | 36.0 |
| 4/23/2015 14:20:07 | 44.95 | 42.05 | 658 | 1.99 | 0.31 | 36.0 |
| 4/23/2015 14:20:07 | 45.28 | 42.38 | 651 | 1.97 | 0.31 | 35.6 |
| 4/23/2015 14:20:08 | 45.60 | 42.70 | 655 | 1.97 | 0.30 | 35.8 |
| 4/23/2015 14:20:08 | 45.93 | 43.03 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:20:09 | 46.26 | 43.36 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:20:10 | 46.59 | 43.69 | 647 | 2.00 | 0.30 | 35.4 |
| 4/23/2015 14:20:11 | 46.92 | 44.02 | 647 | 1.97 | 0.30 | 35.4 |
| 4/23/2015 14:20:11 | 47.24 | 44.34 | 645 | 1.97 | 0.30 | 35.2 |
| 4/23/2015 14:20:12 | 47.57 | 44.67 | 644 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:20:12 | 47.90 | 45.00 | 648 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 14:20:13 | 48.23 | 45.33 | 648 | 1.97 | 0.23 | 35.4 |
| 4/23/2015 14:20:13 | 48.56 | 45.66 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:20:14 | 48.88 | 45.98 | 645 | 1.98 | 0.31 | 35.2 |
| 4/23/2015 14:20:14 | 49.21 | 46.31 | 647 | 1.98 | 0.30 | 35.4 |
| 4/23/2015 14:20:15 | 49.54 | 46.64 | 647 | 1.98 | 0.28 | 35.4 |
| 4/23/2015 14:20:15 | 49.87 | 46.97 | 645 | 1.98 | 0.30 | 35.2 |
| 4/23/2015 14:20:31 | 50.20 | 47.30 | 0 | 1.95 | 1.11 | 0.0 |
| 4/23/2015 14:20:32 | 50.53 | 47.63 | 146 | 1.98 | 1.12 | 8.0 |
| 4/23/2015 14:20:33 | 50.85 | 47.95 | 260 | 1.98 | 1.11 | 14.2 |
| 4/23/2015 14:20:33 | 51.18 | 48.28 | 378 | 1.98 | 1.10 | 20.6 |
| 4/23/2015 14:20:34 | 51.51 | 48.61 | 495 | 1.98 | 1.10 | 27.1 |
| 4/23/2015 14:20:34 | 51.84 | 48.94 | 572 | 1.98 | 1.10 | 31.3 |
| 4/23/2015 14:20:35 | 52.17 | 49.27 | 581 | 2.00 | 1.10 | 31.8 |
| 4/23/2015 14:20:36 | 52.49 | 49.59 | 579 | 1.98 | 1.10 | 31.6 |
| 4/23/2015 14:20:36 | 52.82 | 49.92 | 579 | 1.95 | 1.12 | 31.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 14:20:37 | 53.15 | 50.25 | 584 | 1.98 | 1.10 | 32.0 |
| 4/23/2015 | 14:20:37 | 53.48 | 50.58 | 581 | 1.99 | 1.09 | 31.8 |
| 4/23/2015 | 14:20:38 | 53.81 | 50.91 | 581 | 1.98 | 1.09 | 31.8 |
| 4/23/2015 | 14:20:39 | 54.13 | 51.23 | 577 | 1.96 | 1.12 | 31.6 |
| 4/23/2015 | 14:20:39 | 54.46 | 51.56 | 569 | 1.98 | 1.30 | 31.1 |
| 4/23/2015 | 14:20:44 | 54.79 | 51.89 | 96 | 1.99 | 1.19 | 5.2 |
| 4/23/2015 | 14:20:45 | 55.12 | 52.22 | 255 | 2.00 | 1.25 | 14.0 |
| 4/23/2015 | 14:20:48 | 55.45 | 52.55 | 138 | 1.95 | 1.17 | 7.5 |
| 4/23/2015 | 14:20:59 | 55.77 | 52.87 | 23 | 1.98 | 1.06 | 1.3 |
| 4/23/2015 | 14:21:09 | 56.10 | 53.20 | 35 | 1.98 | 1.20 | 1.9 |
| 4/23/2015 | 14:21:19 | 56.43 | 53.53 | 38 | 1.99 | 1.17 | 2.1 |
| 4/23/2015 | 14:21:29 | 56.76 | 53.86 | 38 | 1.98 | 1.07 | 2.1 |
| 4/23/2015 | 14:21:38 | 57.09 | 54.19 | 37 | 1.98 | 1.17 | 2.0 |
| 4/23/2015 | 14:21:39 | 57.15 | 54.25 | 38 | 2.02 | 1.23 | 2.1 |

## H463 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 14:17:54

**End Date:**
4/23/2015 14:23:22

**Operator Note:**
'2.9 2.6 C Auto Complete'

**Northing:**
366,822.49

**Easting:**
251,970.37

**Tide (feet):**
2.90



## Hole: H464 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:48:45 | 32.15 | 30.15 | 859 | 0.43 | 0.32 | 47.0 |
| 4/23/2015 13:48:46 | 32.48 | 30.48 | 859 | 0.41 | 0.32 | 47.0 |
| 4/23/2015 13:48:46 | 32.81 | 30.81 | 868 | 0.41 | 0.33 | 47.4 |
| 4/23/2015 13:48:47 | 33.14 | 31.14 | 868 | 0.41 | 0.33 | 47.4 |
| 4/23/2015 13:48:47 | 33.46 | 31.46 | 866 | 0.41 | 0.32 | 47.3 |
| 4/23/2015 13:48:47 | 33.79 | 31.79 | 878 | 0.41 | 0.32 | 48.0 |
| 4/23/2015 13:48:48 | 34.12 | 32.12 | 870 | 0.39 | 0.32 | 47.6 |
| 4/23/2015 13:48:49 | 34.45 | 32.45 | 867 | 0.39 | 0.32 | 47.4 |
| 4/23/2015 13:48:49 | 34.78 | 32.78 | 867 | 0.39 | 0.32 | 47.4 |
| 4/23/2015 13:48:49 | 35.11 | 33.11 | 859 | 0.39 | 0.32 | 47.0 |
| 4/23/2015 13:48:50 | 35.43 | 33.43 | 870 | 0.41 | 0.32 | 47.6 |
| 4/23/2015 13:48:50 | 35.76 | 33.76 | 870 | 0.40 | 0.32 | 47.6 |
| 4/23/2015 13:48:51 | 36.09 | 34.09 | 868 | 0.41 | 0.32 | 47.4 |
| 4/23/2015 13:48:51 | 36.42 | 34.42 | 868 | 0.41 | 0.32 | 47.4 |
| 4/23/2015 13:48:51 | 36.75 | 34.75 | 859 | 0.41 | 0.32 | 47.0 |
| 4/23/2015 13:48:52 | 37.07 | 35.07 | 857 | 0.41 | 0.32 | 46.9 |
| 4/23/2015 13:48:52 | 37.40 | 35.40 | 859 | 0.41 | 0.32 | 47.0 |
| 4/23/2015 13:48:53 | 37.73 | 35.73 | 859 | 0.41 | 0.32 | 47.0 |
| 4/23/2015 13:48:53 | 38.06 | 36.06 | 859 | 0.41 | 0.32 | 47.0 |
| 4/23/2015 13:48:53 | 38.39 | 36.39 | 868 | 0.40 | 0.32 | 47.5 |
| 4/23/2015 13:48:54 | 38.71 | 36.71 | 874 | 0.40 | 0.32 | 47.8 |
| 4/23/2015 13:48:54 | 39.04 | 37.04 | 887 | 0.40 | 0.32 | 48.5 |
| 4/23/2015 13:48:55 | 39.37 | 37.37 | 887 | 0.40 | 0.32 | 48.5 |
| 4/23/2015 13:48:55 | 39.70 | 37.70 | 876 | 0.39 | 0.32 | 47.9 |
| 4/23/2015 13:48:55 | 40.03 | 38.03 | 873 | 0.39 | 0.32 | 47.8 |
| 4/23/2015 13:48:56 | 40.35 | 38.35 | 867 | 0.40 | 0.32 | 47.4 |
| 4/23/2015 13:48:56 | 40.68 | 38.68 | 867 | 0.40 | 0.32 | 47.4 |
| 4/23/2015 13:48:57 | 41.01 | 39.01 | 867 | 0.40 | 0.32 | 47.4 |
| 4/23/2015 13:48:57 | 41.34 | 39.34 | 872 | 0.47 | 0.32 | 47.7 |
| 4/23/2015 13:48:57 | 41.67 | 39.67 | 863 | 0.40 | 0.32 | 47.2 |
| 4/23/2015 13:48:58 | 41.99 | 39.99 | 866 | 0.40 | 0.32 | 47.3 |
| 4/23/2015 13:48:58 | 42.32 | 40.32 | 869 | 0.40 | 0.32 | 47.5 |
| 4/23/2015 13:48:59 | 42.65 | 40.65 | 869 | 0.40 | 0.32 | 47.5 |
| 4/23/2015 13:48:59 | 42.98 | 40.98 | 875 | 0.40 | 0.32 | 47.9 |
| 4/23/2015 13:49:00 | 43.31 | 41.31 | 868 | 0.40 | 0.32 | 47.4 |
| 4/23/2015 13:49:00 | 43.64 | 41.64 | 876 | 0.40 | 0.32 | 47.9 |
| 4/23/2015 13:49:01 | 43.96 | 41.96 | 876 | 0.40 | 0.32 | 47.9 |
| 4/23/2015 13:49:01 | 44.29 | 42.29 | 876 | 0.35 | 0.32 | 47.9 |
| 4/23/2015 13:49:01 | 44.62 | 42.62 | 882 | 0.44 | 0.33 | 48.2 |
| 4/23/2015 13:49:02 | 44.95 | 42.95 | 882 | 0.47 | 0.33 | 48.2 |
| 4/23/2015 13:49:02 | 45.28 | 43.28 | 885 | 0.45 | 0.35 | 48.4 |
| 4/23/2015 13:49:03 | 45.60 | 43.60 | 885 | 0.45 | 0.35 | 48.4 |
| 4/23/2015 13:49:03 | 45.93 | 43.93 | 879 | 0.43 | 0.34 | 48.1 |
| 4/23/2015 13:49:03 | 46.26 | 44.26 | 876 | 0.46 | 0.34 | 47.9 |
| 4/23/2015 13:49:04 | 46.59 | 44.59 | 862 | 0.45 | 0.34 | 47.1 |
| 4/23/2015 13:49:04 | 46.92 | 44.92 | 870 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:49:05 | 47.24 | 45.24 | 870 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:49:05 | 47.57 | 45.57 | 870 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:49:05 | 47.90 | 45.90 | 873 | 0.45 | 0.34 | 47.7 |
| 4/23/2015 13:49:06 | 48.23 | 46.23 | 873 | 0.45 | 0.34 | 47.7 |
| 4/23/2015 13:49:06 | 48.56 | 46.56 | 873 | 0.45 | 0.34 | 47.7 |
| 4/23/2015 13:49:06 | 48.88 | 46.88 | 884 | 0.46 | 0.35 | 48.4 |
| 4/23/2015 13:49:07 | 49.21 | 47.21 | 873 | 0.46 | 0.34 | 47.7 |
| 4/23/2015 13:49:07 | 49.54 | 47.54 | 876 | 0.46 | 0.35 | 47.9 |
| 4/23/2015 13:49:08 | 49.87 | 47.87 | 842 | 0.45 | 0.36 | 46.0 |
| 4/23/2015 13:49:08 | 50.20 | 48.20 | 787 | 0.43 | 0.37 | 43.1 |
| 4/23/2015 13:49:15 | 50.53 | 48.53 | 0 | 3.43 | 0.33 | 0.0 |
| 4/23/2015 13:49:15 | 50.85 | 48.85 | 94 | 2.76 | 0.33 | 5.2 |
| 4/23/2015 13:49:16 | 51.18 | 49.18 | 245 | 2.43 | 0.32 | 13.4 |
| 4/23/2015 13:49:16 | 51.51 | 49.51 | 410 | 2.39 | 0.32 | 22.4 |
| 4/23/2015 13:49:17 | 51.84 | 49.84 | 579 | 2.38 | 0.32 | 31.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:49:17 | 52.17 | 50.17 | 746 | 2.38 | 0.33 | 40.8 |
| 4/23/2015 | 13:49:18 | 52.49 | 50.49 | 746 | 2.38 | 0.33 | 40.8 |
| 4/23/2015 | 13:49:18 | 52.82 | 50.82 | 818 | 2.36 | 0.32 | 44.7 |
| 4/23/2015 | 13:49:18 | 53.15 | 51.15 | 830 | 2.36 | 0.32 | 45.4 |
| 4/23/2015 | 13:49:19 | 53.48 | 51.48 | 838 | 2.38 | 0.32 | 45.8 |
| 4/23/2015 | 13:49:19 | 53.81 | 51.81 | 833 | 2.36 | 0.32 | 45.5 |
| 4/23/2015 | 13:49:20 | 54.13 | 52.13 | 836 | 2.42 | 0.32 | 45.7 |
| 4/23/2015 | 13:49:21 | 54.46 | 52.46 | 836 | 2.42 | 0.32 | 45.7 |
| 4/23/2015 | 13:49:21 | 54.79 | 52.79 | 833 | 2.38 | 0.32 | 45.5 |
| 4/23/2015 | 13:49:21 | 55.12 | 53.12 | 833 | 2.37 | 0.33 | 45.5 |
| 4/23/2015 | 13:49:22 | 55.45 | 53.45 | 821 | 2.37 | 0.33 | 44.9 |
| 4/23/2015 | 13:49:22 | 55.77 | 53.77 | 807 | 2.37 | 0.33 | 44.1 |
| 4/23/2015 | 13:49:23 | 56.10 | 54.10 | 785 | 2.35 | 0.33 | 42.9 |
| 4/23/2015 | 13:49:23 | 56.43 | 54.43 | 775 | 2.38 | 0.33 | 42.4 |
| 4/23/2015 | 13:49:24 | 56.76 | 54.76 | 758 | 2.48 | 0.25 | 41.4 |
| 4/23/2015 | 13:49:24 | 56.92 | 54.92 | 758 | 2.48 | 0.25 | 41.4 |

## H464 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:46:50

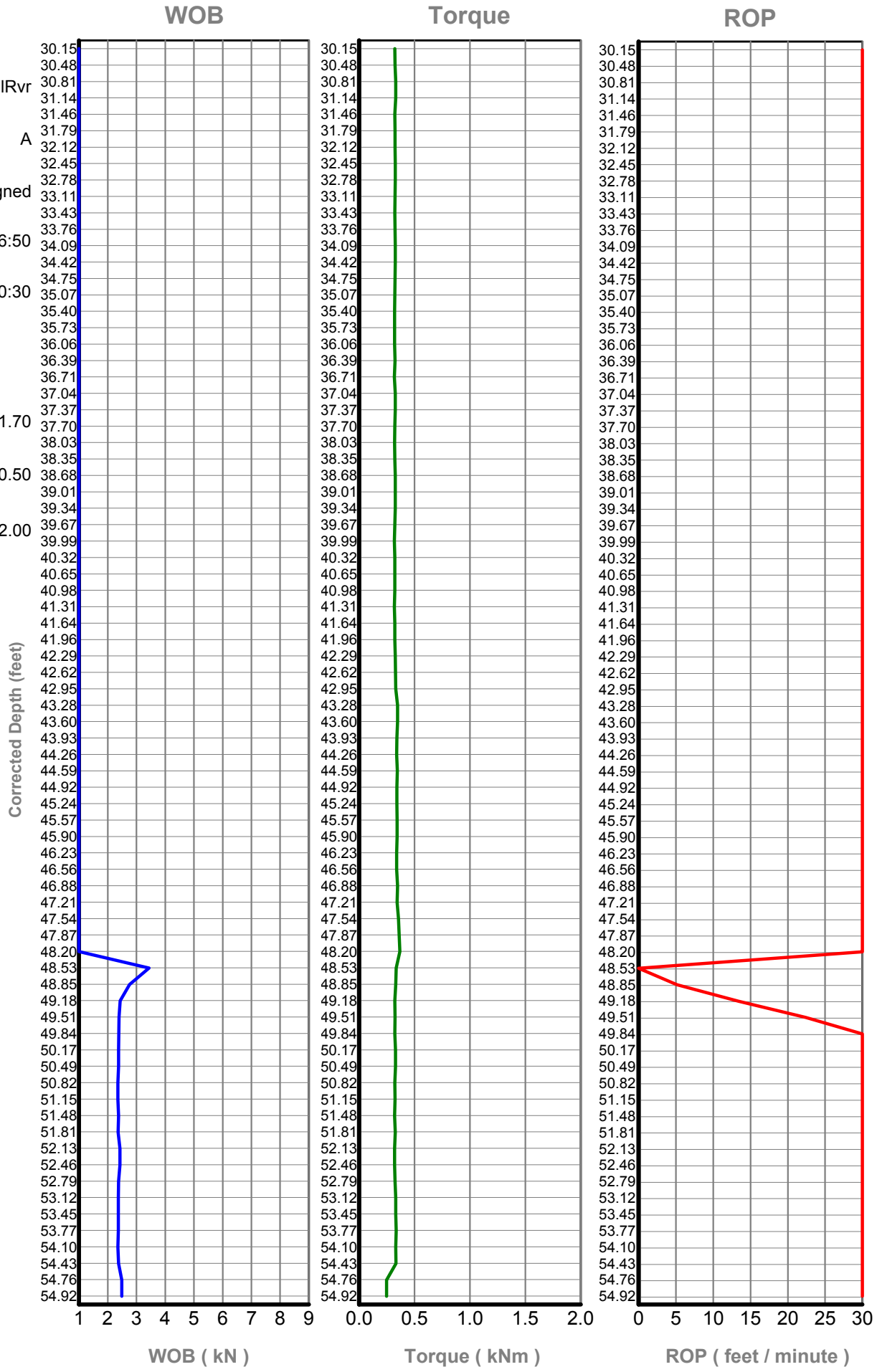
**End Date:**
4/23/2015 13:50:30

**Operator Note:**
'2 1.8 b Auto Complete'

**Northing:**
366,871.70

**Easting:**
252,020.50

**Tide (feet):**
2.00



## Hole: H465 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:52:15 | 32.15 | 30.15 | 910 | 0.45 | 0.34 | 49.8 |
| 4/23/2015 13:52:16 | 32.48 | 30.48 | 910 | 0.45 | 0.34 | 49.8 |
| 4/23/2015 13:52:16 | 32.81 | 30.81 | 884 | 0.46 | 0.34 | 48.3 |
| 4/23/2015 13:52:17 | 33.14 | 31.14 | 895 | 0.46 | 0.34 | 49.0 |
| 4/23/2015 13:52:17 | 33.46 | 31.46 | 893 | 0.46 | 0.34 | 48.8 |
| 4/23/2015 13:52:18 | 33.79 | 31.79 | 893 | 0.46 | 0.34 | 48.8 |
| 4/23/2015 13:52:18 | 34.12 | 32.12 | 893 | 0.46 | 0.34 | 48.8 |
| 4/23/2015 13:52:18 | 34.45 | 32.45 | 912 | 0.46 | 0.34 | 49.9 |
| 4/23/2015 13:52:19 | 34.78 | 32.78 | 882 | 0.45 | 0.34 | 48.2 |
| 4/23/2015 13:52:19 | 35.11 | 33.11 | 882 | 0.45 | 0.34 | 48.2 |
| 4/23/2015 13:52:19 | 35.43 | 33.43 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:20 | 35.76 | 33.76 | 889 | 0.46 | 0.34 | 48.6 |
| 4/23/2015 13:52:20 | 36.09 | 34.09 | 892 | 0.45 | 0.34 | 48.8 |
| 4/23/2015 13:52:21 | 36.42 | 34.42 | 892 | 0.45 | 0.34 | 48.8 |
| 4/23/2015 13:52:21 | 36.75 | 34.75 | 900 | 0.45 | 0.34 | 49.2 |
| 4/23/2015 13:52:21 | 37.07 | 35.07 | 881 | 0.45 | 0.34 | 48.2 |
| 4/23/2015 13:52:22 | 37.40 | 35.40 | 900 | 0.45 | 0.34 | 49.2 |
| 4/23/2015 13:52:22 | 37.73 | 35.73 | 908 | 0.46 | 0.34 | 49.6 |
| 4/23/2015 13:52:23 | 38.06 | 36.06 | 908 | 0.46 | 0.34 | 49.6 |
| 4/23/2015 13:52:23 | 38.39 | 36.39 | 871 | 0.50 | 0.34 | 47.6 |
| 4/23/2015 13:52:23 | 38.71 | 36.71 | 871 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:52:24 | 39.04 | 37.04 | 871 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:52:25 | 39.37 | 37.37 | 871 | 0.45 | 0.34 | 47.6 |
| 4/23/2015 13:52:24 | 39.70 | 37.70 | 882 | 0.45 | 0.34 | 48.2 |
| 4/23/2015 13:52:25 | 40.03 | 38.03 | 882 | 0.45 | 0.34 | 48.2 |
| 4/23/2015 13:52:25 | 40.35 | 38.35 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:26 | 40.68 | 38.68 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:26 | 41.01 | 39.01 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:27 | 41.34 | 39.34 | 889 | 0.46 | 0.34 | 48.6 |
| 4/23/2015 13:52:27 | 41.67 | 39.67 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:27 | 41.99 | 39.99 | 889 | 0.45 | 0.34 | 48.6 |
| 4/23/2015 13:52:28 | 42.32 | 40.32 | 889 | 0.32 | 0.31 | 48.6 |
| 4/23/2015 13:52:28 | 42.65 | 40.65 | 888 | 0.33 | 0.32 | 48.6 |
| 4/23/2015 13:52:29 | 42.98 | 40.98 | 902 | 0.31 | 0.31 | 49.3 |
| 4/23/2015 13:52:29 | 43.31 | 41.31 | 902 | 0.31 | 0.31 | 49.3 |
| 4/23/2015 13:52:29 | 43.64 | 41.64 | 901 | 0.33 | 0.32 | 49.2 |
| 4/23/2015 13:52:30 | 43.96 | 41.96 | 893 | 0.32 | 0.31 | 48.8 |
| 4/23/2015 13:52:30 | 44.29 | 42.29 | 893 | 0.32 | 0.31 | 48.8 |
| 4/23/2015 13:52:31 | 44.62 | 42.62 | 893 | 0.32 | 0.31 | 48.8 |
| 4/23/2015 13:52:31 | 44.95 | 42.95 | 943 | 0.32 | 0.32 | 51.6 |
| 4/23/2015 13:52:31 | 45.28 | 43.28 | 935 | 0.31 | 0.32 | 51.1 |
| 4/23/2015 13:52:32 | 45.60 | 43.60 | 935 | 0.46 | 0.32 | 51.1 |
| 4/23/2015 13:52:32 | 45.93 | 43.93 | 935 | 0.46 | 0.32 | 51.1 |
| 4/23/2015 13:52:32 | 46.26 | 44.26 | 920 | 0.32 | 0.31 | 50.3 |
| 4/23/2015 13:52:33 | 46.59 | 44.59 | 920 | 0.32 | 0.31 | 50.3 |
| 4/23/2015 13:52:33 | 46.92 | 44.92 | 934 | 0.30 | 0.32 | 51.1 |
| 4/23/2015 13:52:34 | 47.24 | 45.24 | 934 | 0.30 | 0.32 | 51.1 |
| 4/23/2015 13:52:34 | 47.57 | 45.57 | 898 | 0.32 | 0.32 | 49.1 |
| 4/23/2015 13:52:34 | 47.90 | 45.90 | 898 | 0.32 | 0.31 | 49.1 |
| 4/23/2015 13:52:35 | 48.23 | 46.23 | 921 | 0.33 | 0.31 | 50.4 |
| 4/23/2015 13:52:35 | 48.56 | 46.56 | 921 | 0.33 | 0.31 | 50.4 |
| 4/23/2015 13:52:35 | 48.88 | 46.88 | 910 | 0.32 | 0.32 | 49.8 |
| 4/23/2015 13:52:36 | 49.21 | 47.21 | 922 | 0.32 | 0.32 | 50.4 |
| 4/23/2015 13:52:36 | 49.54 | 47.54 | 922 | 0.32 | 0.32 | 50.4 |
| 4/23/2015 13:52:36 | 49.87 | 47.87 | 916 | 0.32 | 0.32 | 50.1 |
| 4/23/2015 13:52:37 | 50.20 | 48.20 | 939 | 0.32 | 0.32 | 51.3 |
| 4/23/2015 13:52:38 | 50.53 | 48.53 | 907 | 0.31 | 0.33 | 49.6 |
| 4/23/2015 13:52:41 | 50.85 | 48.85 | 3 | 2.06 | 0.32 | 0.2 |
| 4/23/2015 13:52:43 | 51.18 | 49.18 | 138 | 2.01 | 0.32 | 7.6 |
| 4/23/2015 13:52:43 | 51.51 | 49.51 | 247 | 2.15 | 0.32 | 13.5 |
| 4/23/2015 13:52:44 | 51.84 | 49.84 | 412 | 2.11 | 0.32 | 22.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:52:44 | 52.17 | 50.17 | 412 | 2.11 | 0.32 | 22.6 |
| 4/23/2015 | 13:52:44 | 52.49 | 50.49 | 445 | 2.10 | 0.32 | 24.4 |
| 4/23/2015 | 13:52:45 | 52.82 | 50.82 | 619 | 2.10 | 0.32 | 33.9 |
| 4/23/2015 | 13:52:45 | 53.15 | 51.15 | 785 | 2.08 | 0.32 | 42.9 |
| 4/23/2015 | 13:52:46 | 53.48 | 51.48 | 844 | 2.08 | 0.32 | 46.2 |
| 4/23/2015 | 13:52:46 | 53.81 | 51.81 | 841 | 2.09 | 0.32 | 46.0 |
| 4/23/2015 | 13:52:47 | 54.13 | 52.13 | 841 | 2.09 | 0.32 | 46.0 |
| 4/23/2015 | 13:52:47 | 54.46 | 52.46 | 841 | 2.06 | 0.32 | 46.0 |
| 4/23/2015 | 13:52:47 | 54.79 | 52.79 | 838 | 2.08 | 0.33 | 45.8 |
| 4/23/2015 | 13:52:48 | 55.12 | 53.12 | 830 | 2.08 | 0.33 | 45.4 |
| 4/23/2015 | 13:52:49 | 55.45 | 53.45 | 813 | 2.10 | 0.33 | 44.5 |
| 4/23/2015 | 13:52:49 | 55.77 | 53.77 | 804 | 2.12 | 0.33 | 43.9 |
| 4/23/2015 | 13:52:50 | 56.10 | 54.10 | 788 | 2.06 | 0.39 | 43.1 |
| 4/23/2015 | 13:52:51 | 56.43 | 54.43 | 580 | 2.08 | 0.33 | 31.7 |
| 4/23/2015 | 13:52:51 | 56.76 | 54.76 | 576 | 2.05 | 0.38 | 31.5 |
| 4/23/2015 | 13:52:51 | 56.84 | 54.84 | 576 | 2.05 | 0.38 | 31.5 |

## H465 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:51:05

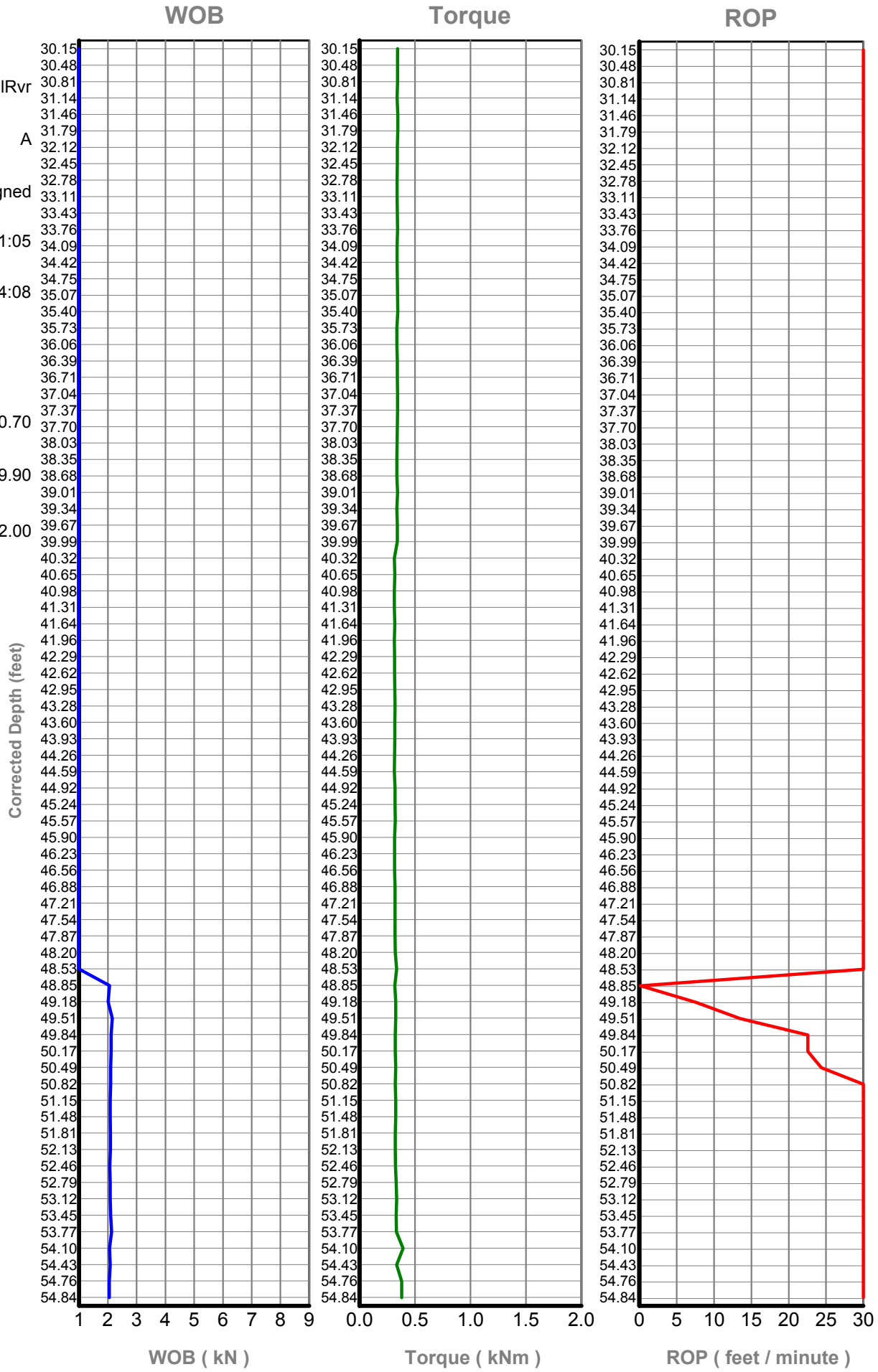
**End Date:**
4/23/2015 13:54:08

**Operator Note:**
'2 1.8 b Auto Complete'

**Northing:**
366,920.70

**Easting:**
252,079.90

**Tide (feet):**
2.00



## Hole: H466 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 13:50:12 | 32.15 | 30.15 | 625 | 1.97 | 0.30 | 34.2 |
| 4/23/2015 13:50:12 | 32.48 | 30.48 | 628 | 1.98 | 0.30 | 34.4 |
| 4/23/2015 13:50:13 | 32.81 | 30.81 | 627 | 1.97 | 0.31 | 34.3 |
| 4/23/2015 13:50:13 | 33.14 | 31.14 | 621 | 1.99 | 0.37 | 33.9 |
| 4/23/2015 13:50:14 | 33.46 | 31.46 | 627 | 1.95 | 0.31 | 34.3 |
| 4/23/2015 13:50:14 | 33.79 | 31.79 | 632 | 1.97 | 0.31 | 34.6 |
| 4/23/2015 13:50:15 | 34.12 | 32.12 | 649 | 1.95 | 0.31 | 35.5 |
| 4/23/2015 13:50:15 | 34.45 | 32.45 | 648 | 1.95 | 0.31 | 35.4 |
| 4/23/2015 13:50:16 | 34.78 | 32.78 | 661 | 1.98 | 0.30 | 36.1 |
| 4/23/2015 13:50:16 | 35.11 | 33.11 | 662 | 1.98 | 0.30 | 36.2 |
| 4/23/2015 13:50:17 | 35.43 | 33.43 | 649 | 1.99 | 0.30 | 35.5 |
| 4/23/2015 13:50:17 | 35.76 | 33.76 | 649 | 1.98 | 0.32 | 35.5 |
| 4/23/2015 13:50:18 | 36.09 | 34.09 | 652 | 1.97 | 0.31 | 35.7 |
| 4/23/2015 13:50:18 | 36.42 | 34.42 | 655 | 1.96 | 0.31 | 35.8 |
| 4/23/2015 13:50:20 | 36.75 | 34.75 | 647 | 1.98 | 0.31 | 35.4 |
| 4/23/2015 13:50:20 | 37.07 | 35.07 | 647 | 1.97 | 0.31 | 35.4 |
| 4/23/2015 13:50:21 | 37.40 | 35.40 | 669 | 1.97 | 0.30 | 36.6 |
| 4/23/2015 13:50:21 | 37.73 | 35.73 | 657 | 1.98 | 0.30 | 35.9 |
| 4/23/2015 13:50:22 | 38.06 | 36.06 | 654 | 1.96 | 0.30 | 35.8 |
| 4/23/2015 13:50:22 | 38.39 | 36.39 | 663 | 1.99 | 0.30 | 36.3 |
| 4/23/2015 13:50:23 | 38.71 | 36.71 | 663 | 1.97 | 0.30 | 36.3 |
| 4/23/2015 13:50:23 | 39.04 | 37.04 | 662 | 1.97 | 0.30 | 36.2 |
| 4/23/2015 13:50:24 | 39.37 | 37.37 | 662 | 1.95 | 0.30 | 36.2 |
| 4/23/2015 13:50:24 | 39.70 | 37.70 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 13:50:25 | 40.03 | 38.03 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 13:50:25 | 40.35 | 38.35 | 653 | 1.98 | 0.31 | 35.7 |
| 4/23/2015 13:50:26 | 40.68 | 38.68 | 660 | 1.98 | 0.30 | 36.1 |
| 4/23/2015 13:50:26 | 41.01 | 39.01 | 653 | 1.97 | 0.30 | 35.7 |
| 4/23/2015 13:50:27 | 41.34 | 39.34 | 650 | 1.98 | 0.31 | 35.6 |
| 4/23/2015 13:50:27 | 41.67 | 39.67 | 663 | 1.98 | 0.30 | 36.3 |
| 4/23/2015 13:50:28 | 41.99 | 39.99 | 656 | 1.94 | 0.31 | 35.9 |
| 4/23/2015 13:50:28 | 42.32 | 40.32 | 653 | 1.97 | 0.30 | 35.7 |
| 4/23/2015 13:50:29 | 42.65 | 40.65 | 656 | 1.95 | 0.30 | 35.9 |
| 4/23/2015 13:50:29 | 42.98 | 40.98 | 659 | 1.96 | 0.31 | 36.0 |
| 4/23/2015 13:50:30 | 43.31 | 41.31 | 660 | 1.97 | 0.31 | 36.1 |
| 4/23/2015 13:50:31 | 43.64 | 41.64 | 659 | 1.96 | 0.31 | 36.0 |
| 4/23/2015 13:50:31 | 43.96 | 41.96 | 655 | 1.96 | 0.31 | 35.8 |
| 4/23/2015 13:50:32 | 44.29 | 42.29 | 653 | 1.98 | 0.30 | 35.7 |
| 4/23/2015 13:50:33 | 44.62 | 42.62 | 646 | 1.95 | 0.31 | 35.3 |
| 4/23/2015 13:50:33 | 44.95 | 42.95 | 654 | 1.98 | 0.31 | 35.8 |
| 4/23/2015 13:50:34 | 45.28 | 43.28 | 658 | 1.97 | 0.30 | 36.0 |
| 4/23/2015 13:50:34 | 45.60 | 43.60 | 654 | 1.98 | 0.30 | 35.8 |
| 4/23/2015 13:50:35 | 45.93 | 43.93 | 554 | 2.00 | 0.30 | 30.3 |
| 4/23/2015 13:50:53 | 46.26 | 44.26 | 74 | 1.96 | 1.16 | 4.0 |
| 4/23/2015 13:50:54 | 46.59 | 44.59 | 208 | 1.99 | 1.16 | 11.4 |
| 4/23/2015 13:50:55 | 46.92 | 44.92 | 341 | 1.98 | 1.09 | 18.7 |
| 4/23/2015 13:50:56 | 47.24 | 45.24 | 348 | 1.95 | 1.08 | 19.0 |
| 4/23/2015 13:50:57 | 47.57 | 45.57 | 354 | 1.94 | 1.10 | 19.4 |
| 4/23/2015 13:50:58 | 47.90 | 45.90 | 355 | 1.95 | 1.23 | 19.4 |
| 4/23/2015 13:50:59 | 48.23 | 46.23 | 337 | 1.98 | 1.12 | 18.4 |
| 4/23/2015 13:51:03 | 48.56 | 46.56 | 60 | 1.99 | 1.09 | 3.3 |
| 4/23/2015 13:51:04 | 48.88 | 46.88 | 166 | 1.98 | 1.09 | 9.1 |
| 4/23/2015 13:51:04 | 49.21 | 47.21 | 272 | 2.01 | 1.09 | 14.9 |
| 4/23/2015 13:51:05 | 49.54 | 47.54 | 374 | 2.00 | 1.08 | 20.5 |
| 4/23/2015 13:51:06 | 49.87 | 47.87 | 520 | 2.00 | 1.04 | 28.5 |
| 4/23/2015 13:51:06 | 50.20 | 48.20 | 529 | 1.99 | 1.03 | 28.9 |
| 4/23/2015 13:51:07 | 50.53 | 48.53 | 532 | 1.98 | 1.03 | 29.1 |
| 4/23/2015 13:51:07 | 50.85 | 48.85 | 535 | 1.96 | 1.08 | 29.2 |
| 4/23/2015 13:51:08 | 51.18 | 49.18 | 538 | 1.98 | 1.06 | 29.4 |
| 4/23/2015 13:51:09 | 51.51 | 49.51 | 532 | 2.00 | 0.99 | 29.1 |
| 4/23/2015 13:51:09 | 51.84 | 49.84 | 535 | 2.00 | 1.03 | 29.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 13:51:10 | 52.17 | 50.17 | 529 | 1.98 | 1.04 | 29.0 |
| 4/23/2015 | 13:51:11 | 52.49 | 50.49 | 527 | 1.99 | 1.01 | 28.8 |
| 4/23/2015 | 13:51:12 | 52.82 | 50.82 | 529 | 1.99 | 1.03 | 29.0 |
| 4/23/2015 | 13:51:13 | 53.15 | 51.15 | 527 | 1.98 | 1.05 | 28.8 |
| 4/23/2015 | 13:51:13 | 53.48 | 51.48 | 520 | 2.00 | 1.04 | 28.4 |
| 4/23/2015 | 13:51:14 | 53.81 | 51.81 | 523 | 1.98 | 1.01 | 28.6 |
| 4/23/2015 | 13:51:15 | 54.13 | 52.13 | 515 | 1.95 | 1.10 | 28.1 |
| 4/23/2015 | 13:51:15 | 54.46 | 52.46 | 509 | 1.97 | 1.01 | 27.8 |
| 4/23/2015 | 13:51:16 | 54.79 | 52.79 | 509 | 1.95 | 1.05 | 27.8 |
| 4/23/2015 | 13:51:17 | 55.12 | 53.12 | 490 | 1.96 | 1.06 | 26.8 |
| 4/23/2015 | 13:51:17 | 55.45 | 53.45 | 481 | 2.00 | 1.02 | 26.3 |
| 4/23/2015 | 13:51:18 | 55.77 | 53.77 | 484 | 1.95 | 1.04 | 26.5 |
| 4/23/2015 | 13:51:19 | 56.10 | 54.10 | 478 | 2.01 | 0.99 | 26.2 |
| 4/23/2015 | 13:51:19 | 56.43 | 54.43 | 489 | 1.96 | 1.08 | 26.7 |
| 4/23/2015 | 13:51:20 | 56.76 | 54.76 | 489 | 1.95 | 1.07 | 26.7 |
| 4/23/2015 | 13:51:20 | 56.88 | 54.88 | 489 | 1.95 | 1.07 | 26.7 |

## H466 - Summary

**Pattern Number:**
AreaH_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 13:48:03

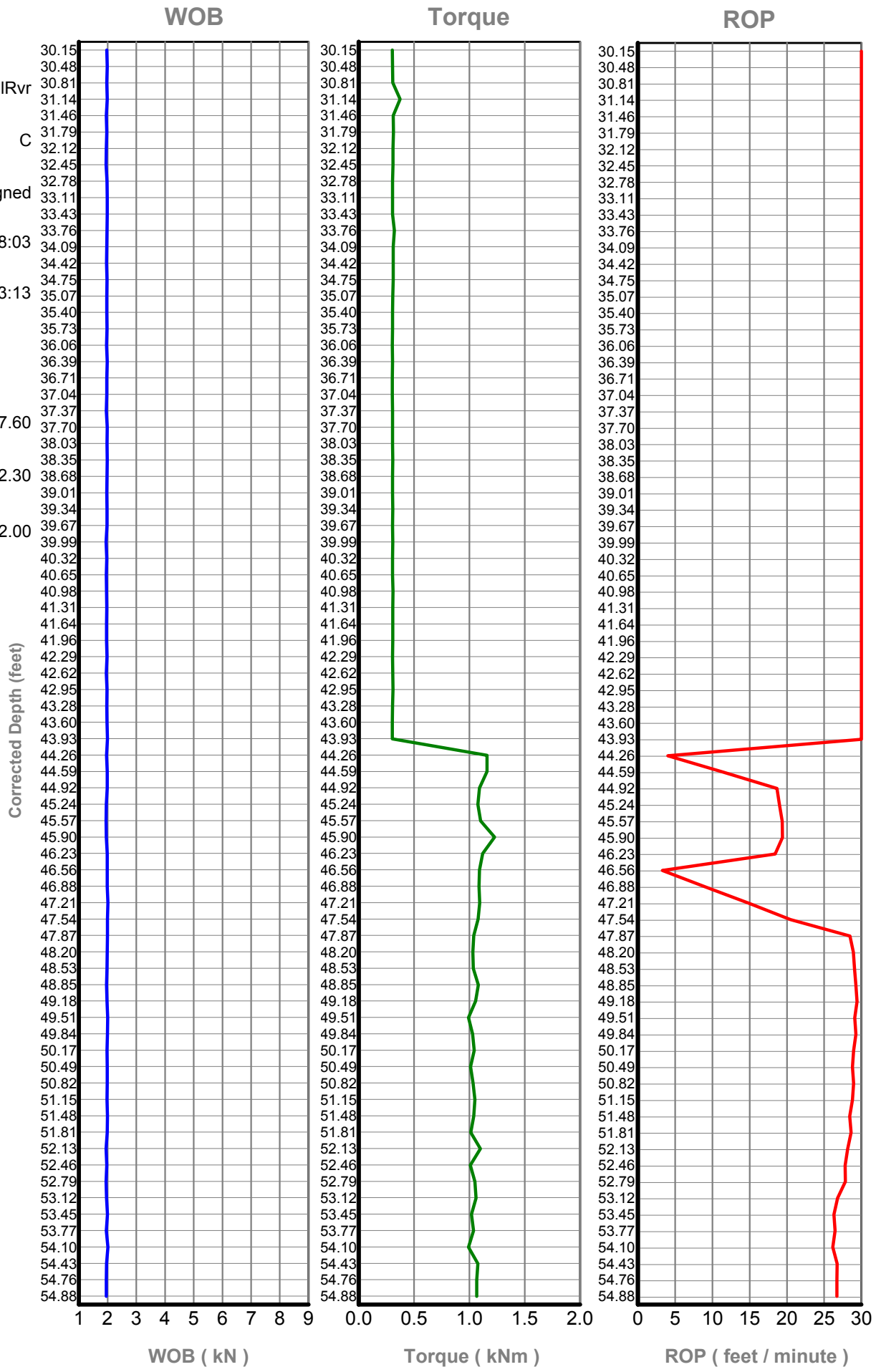
**End Date:**
4/23/2015 13:53:13

**Operator Note:**
'2 1.8 C Auto Complete'

**Northing:**
366,967.60

**Easting:**
252,132.30

**Tide (feet):**
2.00



## Hole: H47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:23:56 | 34.45 | 30.15 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:23:56 | 34.78 | 30.48 | 1,012 | 0.33 | 0.32 | 55.4 |
| 4/27/2015 5:23:57 | 35.11 | 30.81 | 1,012 | 0.33 | 0.32 | 55.4 |
| 4/27/2015 5:23:57 | 35.43 | 31.13 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 5:23:57 | 35.76 | 31.46 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 5:23:58 | 36.09 | 31.79 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/27/2015 5:23:58 | 36.42 | 32.12 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:23:58 | 36.75 | 32.45 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 5:23:59 | 37.07 | 32.77 | 1,015 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 5:23:59 | 37.40 | 33.10 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:23:59 | 37.73 | 33.43 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:24:00 | 38.06 | 33.76 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:24:00 | 38.39 | 34.09 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:00 | 38.71 | 34.41 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:24:01 | 39.04 | 34.74 | 1,003 | 0.33 | 0.32 | 54.9 |
| 4/27/2015 5:24:01 | 39.37 | 35.07 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:02 | 39.70 | 35.40 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:02 | 40.03 | 35.73 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:02 | 40.35 | 36.05 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:03 | 40.68 | 36.38 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 5:24:03 | 41.01 | 36.71 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 5:24:04 | 41.34 | 37.04 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 5:24:04 | 41.67 | 37.37 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/27/2015 5:24:04 | 41.99 | 37.69 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/27/2015 5:24:05 | 42.32 | 38.02 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/27/2015 5:24:05 | 42.65 | 38.35 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/27/2015 5:24:05 | 42.98 | 38.68 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:06 | 43.31 | 39.01 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:06 | 43.64 | 39.34 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/27/2015 5:24:06 | 43.96 | 39.66 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:07 | 44.29 | 39.99 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:07 | 44.62 | 40.32 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/27/2015 5:24:07 | 44.95 | 40.65 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:08 | 45.28 | 40.98 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:08 | 45.60 | 41.30 | 997 | 0.33 | 0.32 | 54.5 |
| 4/27/2015 5:24:08 | 45.93 | 41.63 | 992 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 5:24:09 | 46.26 | 41.96 | 998 | 0.33 | 0.32 | 54.6 |
| 4/27/2015 5:24:09 | 46.59 | 42.29 | 998 | 0.33 | 0.32 | 54.6 |
| 4/27/2015 5:24:09 | 46.92 | 42.62 | 989 | 0.33 | 0.32 | 54.1 |
| 4/27/2015 5:24:10 | 47.24 | 42.94 | 986 | 0.33 | 0.32 | 53.9 |
| 4/27/2015 5:24:10 | 47.57 | 43.27 | 986 | 0.33 | 0.32 | 53.9 |
| 4/27/2015 5:24:10 | 47.90 | 43.60 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:24:11 | 48.23 | 43.93 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:24:12 | 48.56 | 44.26 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:24:12 | 48.88 | 44.58 | 980 | 0.33 | 0.32 | 53.6 |
| 4/27/2015 5:24:12 | 49.21 | 44.91 | 983 | 0.33 | 0.33 | 53.7 |
| 4/27/2015 5:24:13 | 49.54 | 45.24 | 983 | 0.34 | 0.32 | 53.7 |
| 4/27/2015 5:24:13 | 49.87 | 45.57 | 983 | 0.34 | 0.32 | 53.7 |
| 4/27/2015 5:24:13 | 50.20 | 45.90 | 983 | 0.33 | 0.32 | 53.7 |
| 4/27/2015 5:24:14 | 50.53 | 46.23 | 983 | 0.33 | 0.32 | 53.7 |
| 4/27/2015 5:24:14 | 50.85 | 46.55 | 983 | 0.33 | 0.32 | 53.7 |
| 4/27/2015 5:24:14 | 51.18 | 46.88 | 977 | 0.32 | 0.36 | 53.4 |
| 4/27/2015 5:24:36 | 51.51 | 47.21 | 62 | 3.41 | 0.38 | 3.4 |
| 4/27/2015 5:24:40 | 51.84 | 47.54 | 51 | 4.72 | 0.37 | 2.8 |
| 4/27/2015 5:24:42 | 52.17 | 47.87 | 193 | 3.60 | 0.40 | 10.6 |
| 4/27/2015 5:24:51 | 52.49 | 48.19 | 34 | 3.51 | 0.40 | 1.9 |
| 4/27/2015 5:25:02 | 52.82 | 48.52 | 29 | 3.02 | 0.40 | 1.6 |
| 4/27/2015 5:25:14 | 53.15 | 48.85 | 23 | 2.74 | 0.40 | 1.3 |
| 4/27/2015 5:25:27 | 53.48 | 49.18 | 32 | 2.99 | 0.41 | 1.8 |
| 4/27/2015 5:25:33 | 53.73 | 49.43 | 46 | 4.47 | 0.41 | 2.5 |

## H47 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:22:01

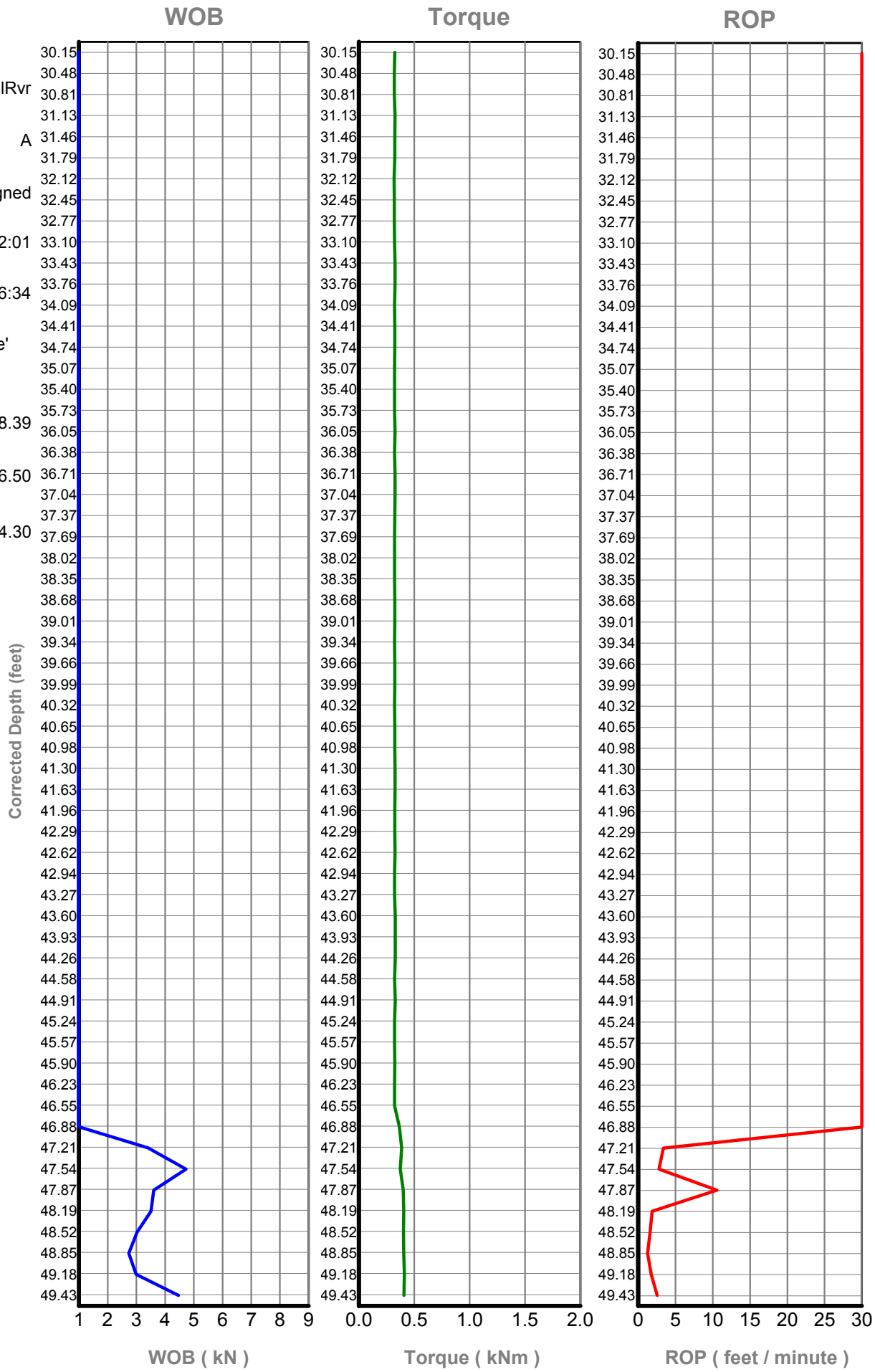
**End Date:**
4/27/2015 5:36:34

**Operator Note:**
'4.3 4.2 b Auto Complete'

**Northing:**
365,728.39

**Easting:**
249,276.50

**Tide (feet):**
4.30



## Hole: H48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:17:54 | 34.12 | 30.02 | 548 | 1.77 | 0.16 | 30.0 |
| 4/27/2015 5:17:55 | 34.45 | 30.35 | 541 | 1.76 | 0.16 | 29.6 |
| 4/27/2015 5:17:55 | 34.78 | 30.68 | 541 | 1.77 | 0.16 | 29.6 |
| 4/27/2015 5:17:56 | 35.11 | 31.01 | 544 | 1.78 | 0.16 | 29.7 |
| 4/27/2015 5:17:57 | 35.43 | 31.33 | 541 | 1.78 | 0.16 | 29.6 |
| 4/27/2015 5:17:57 | 35.76 | 31.66 | 538 | 1.77 | 0.16 | 29.4 |
| 4/27/2015 5:17:58 | 36.09 | 31.99 | 541 | 1.76 | 0.16 | 29.6 |
| 4/27/2015 5:17:59 | 36.42 | 32.32 | 540 | 1.79 | 0.16 | 29.6 |
| 4/27/2015 5:17:59 | 36.75 | 32.65 | 543 | 1.76 | 0.16 | 29.7 |
| 4/27/2015 5:18:00 | 37.07 | 32.97 | 540 | 1.75 | 0.16 | 29.5 |
| 4/27/2015 5:18:01 | 37.40 | 33.30 | 541 | 1.77 | 0.16 | 29.6 |
| 4/27/2015 5:18:01 | 37.73 | 33.63 | 541 | 1.81 | 0.16 | 29.6 |
| 4/27/2015 5:18:02 | 38.06 | 33.96 | 538 | 1.78 | 0.16 | 29.4 |
| 4/27/2015 5:18:02 | 38.39 | 34.29 | 535 | 1.80 | 0.16 | 29.2 |
| 4/27/2015 5:18:03 | 38.71 | 34.61 | 533 | 1.83 | 0.16 | 29.2 |
| 4/27/2015 5:18:04 | 39.04 | 34.94 | 533 | 1.79 | 0.16 | 29.2 |
| 4/27/2015 5:18:05 | 39.37 | 35.27 | 536 | 1.76 | 0.16 | 29.3 |
| 4/27/2015 5:18:05 | 39.70 | 35.60 | 536 | 1.81 | 0.16 | 29.3 |
| 4/27/2015 5:18:06 | 40.03 | 35.93 | 538 | 1.76 | 0.16 | 29.4 |
| 4/27/2015 5:18:07 | 40.35 | 36.25 | 541 | 1.76 | 0.16 | 29.6 |
| 4/27/2015 5:18:07 | 40.68 | 36.58 | 538 | 1.78 | 0.16 | 29.4 |
| 4/27/2015 5:18:08 | 41.01 | 36.91 | 537 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:09 | 41.34 | 37.24 | 540 | 1.73 | 0.16 | 29.6 |
| 4/27/2015 5:18:09 | 41.67 | 37.57 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:10 | 41.99 | 37.89 | 538 | 1.78 | 0.16 | 29.4 |
| 4/27/2015 5:18:11 | 42.32 | 38.22 | 535 | 1.80 | 0.16 | 29.3 |
| 4/27/2015 5:18:11 | 42.65 | 38.55 | 535 | 1.78 | 0.16 | 29.3 |
| 4/27/2015 5:18:12 | 42.98 | 38.88 | 535 | 1.77 | 0.16 | 29.3 |
| 4/27/2015 5:18:13 | 43.31 | 39.21 | 544 | 1.78 | 0.16 | 29.8 |
| 4/27/2015 5:18:13 | 43.64 | 39.54 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:14 | 43.96 | 39.86 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:14 | 44.29 | 40.19 | 538 | 1.76 | 0.16 | 29.4 |
| 4/27/2015 5:18:16 | 44.62 | 40.52 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:16 | 44.95 | 40.85 | 535 | 1.76 | 0.16 | 29.2 |
| 4/27/2015 5:18:17 | 45.28 | 41.18 | 535 | 1.81 | 0.16 | 29.2 |
| 4/27/2015 5:18:17 | 45.60 | 41.50 | 538 | 1.79 | 0.16 | 29.4 |
| 4/27/2015 5:18:18 | 45.93 | 41.83 | 535 | 1.80 | 0.16 | 29.2 |
| 4/27/2015 5:18:19 | 46.26 | 42.16 | 535 | 1.77 | 0.16 | 29.2 |
| 4/27/2015 5:18:19 | 46.59 | 42.49 | 541 | 1.82 | 0.16 | 29.6 |
| 4/27/2015 5:18:20 | 46.92 | 42.82 | 535 | 1.79 | 0.16 | 29.3 |
| 4/27/2015 5:18:21 | 47.24 | 43.14 | 535 | 1.76 | 0.16 | 29.3 |
| 4/27/2015 5:18:21 | 47.57 | 43.47 | 541 | 1.79 | 0.17 | 29.6 |
| 4/27/2015 5:18:22 | 47.90 | 43.80 | 535 | 1.76 | 0.16 | 29.2 |
| 4/27/2015 5:18:23 | 48.23 | 44.13 | 534 | 1.77 | 0.16 | 29.2 |
| 4/27/2015 5:18:23 | 48.56 | 44.46 | 538 | 1.69 | 0.17 | 29.4 |
| 4/27/2015 5:18:37 | 48.88 | 44.78 | 31 | 1.82 | 1.27 | 1.7 |
| 4/27/2015 5:18:40 | 49.21 | 45.11 | 146 | 1.81 | 1.19 | 8.0 |
| 4/27/2015 5:18:42 | 49.54 | 45.44 | 156 | 1.81 | 1.26 | 8.6 |
| 4/27/2015 5:18:45 | 49.87 | 45.77 | 110 | 1.82 | 1.26 | 6.0 |
| 4/27/2015 5:18:50 | 50.20 | 46.10 | 81 | 1.82 | 1.21 | 4.4 |
| 4/27/2015 5:18:53 | 50.53 | 46.43 | 118 | 1.83 | 1.28 | 6.5 |
| 4/27/2015 5:18:57 | 50.85 | 46.75 | 96 | 1.83 | 1.25 | 5.2 |
| 4/27/2015 5:19:01 | 51.18 | 47.08 | 71 | 1.83 | 1.18 | 3.9 |
| 4/27/2015 5:19:06 | 51.51 | 47.41 | 78 | 1.81 | 1.14 | 4.3 |
| 4/27/2015 5:19:11 | 51.84 | 47.74 | 68 | 1.83 | 1.20 | 3.7 |
| 4/27/2015 5:19:16 | 52.17 | 48.07 | 61 | 1.81 | 1.20 | 3.3 |
| 4/27/2015 5:19:23 | 52.49 | 48.39 | 57 | 1.81 | 1.17 | 3.1 |
| 4/27/2015 5:19:27 | 52.82 | 48.72 | 90 | 1.83 | 1.15 | 4.9 |
| 4/27/2015 5:19:37 | 53.15 | 49.05 | 34 | 1.82 | 1.13 | 1.9 |
| 4/27/2015 5:19:48 | 53.48 | 49.38 | 36 | 1.83 | 1.09 | 2.0 |
| 4/27/2015 5:20:00 | 53.81 | 49.71 | 35 | 1.82 | 1.13 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 5:20:07 | 54.04 | 49.94 | 41 | 1.48 | 1.22 | 2.2 |

## H48 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:14:01

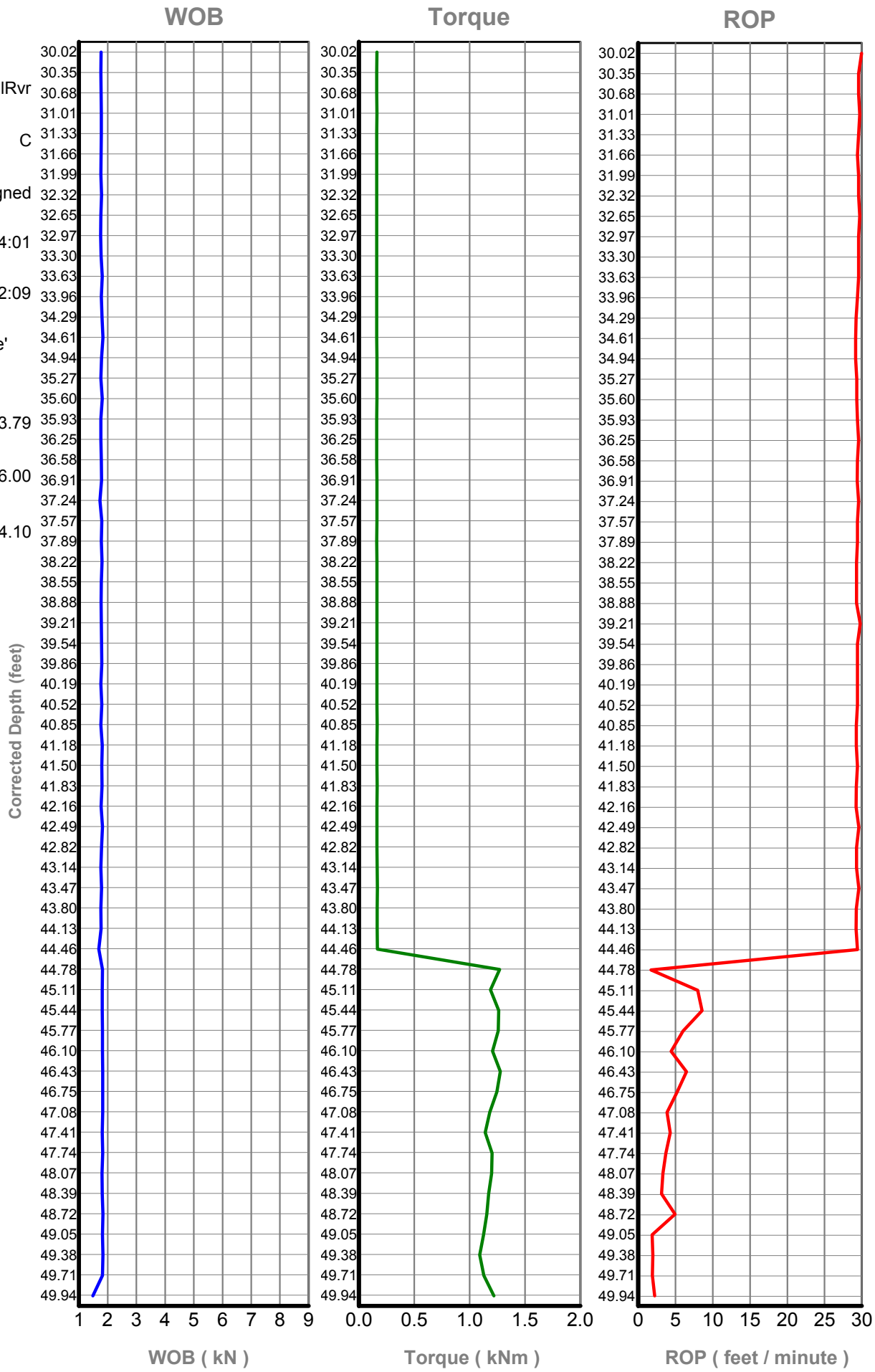
**End Date:**
4/27/2015 5:22:09

**Operator Note:**
'4.1 4.0 c Auto Complete'

**Northing:**
365,773.79

**Easting:**
249,336.00

**Tide (feet):**
4.10



## Hole: H49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:58:45 | 33.46 | 30.16 | 91 | 0.31 | 0.33 | 5.0 |
| 4/26/2015 23:58:45 | 33.79 | 30.49 | 265 | 0.31 | 0.33 | 14.5 |
| 4/26/2015 23:58:46 | 34.12 | 30.82 | 451 | 0.31 | 0.32 | 24.7 |
| 4/26/2015 23:58:46 | 34.45 | 31.15 | 451 | 0.31 | 0.32 | 24.7 |
| 4/26/2015 23:58:46 | 34.78 | 31.48 | 654 | 0.30 | 0.32 | 35.8 |
| 4/26/2015 23:58:47 | 35.11 | 31.81 | 860 | 0.31 | 0.32 | 47.0 |
| 4/26/2015 23:58:47 | 35.43 | 32.13 | 969 | 0.31 | 0.32 | 53.0 |
| 4/26/2015 23:58:48 | 35.76 | 32.46 | 969 | 0.31 | 0.32 | 53.0 |
| 4/26/2015 23:58:48 | 36.09 | 32.79 | 995 | 0.31 | 0.32 | 54.4 |
| 4/26/2015 23:58:48 | 36.42 | 33.12 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 23:58:49 | 36.75 | 33.45 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 23:58:49 | 37.07 | 33.77 | 1,009 | 0.31 | 0.32 | 55.2 |
| 4/26/2015 23:58:49 | 37.40 | 34.10 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 23:58:50 | 37.73 | 34.43 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 23:58:50 | 38.06 | 34.76 | 1,012 | 0.31 | 0.32 | 55.3 |
| 4/26/2015 23:58:50 | 38.39 | 35.09 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 23:58:51 | 38.71 | 35.41 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 23:58:51 | 39.04 | 35.74 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/26/2015 23:58:51 | 39.37 | 36.07 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:58:52 | 39.70 | 36.40 | 1,023 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:58:52 | 40.03 | 36.73 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 23:58:52 | 40.35 | 37.05 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 23:58:53 | 40.68 | 37.38 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 23:58:53 | 41.01 | 37.71 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 23:58:54 | 41.34 | 38.04 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 23:58:54 | 41.67 | 38.37 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 23:58:54 | 41.99 | 38.69 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 23:58:55 | 42.32 | 39.02 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 23:58:55 | 42.65 | 39.35 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 23:58:55 | 42.98 | 39.68 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 23:58:56 | 43.31 | 40.01 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 23:58:56 | 43.64 | 40.34 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 23:58:56 | 43.96 | 40.66 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 23:58:57 | 44.29 | 40.99 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 23:58:57 | 44.62 | 41.32 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 23:58:57 | 44.95 | 41.65 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 23:58:58 | 45.28 | 41.98 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 23:58:58 | 45.60 | 42.30 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 23:58:58 | 45.93 | 42.63 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 23:58:59 | 46.26 | 42.96 | 1,014 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 23:58:59 | 46.59 | 43.29 | 1,014 | 0.31 | 0.32 | 55.5 |
| 4/26/2015 23:58:59 | 46.92 | 43.62 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:59:00 | 47.24 | 43.94 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:59:00 | 47.57 | 44.27 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:59:00 | 47.90 | 44.60 | 1,024 | 0.31 | 0.32 | 56.0 |
| 4/26/2015 23:59:01 | 48.23 | 44.93 | 1,024 | 0.30 | 0.35 | 56.0 |
| 4/26/2015 23:59:01 | 48.56 | 45.26 | 971 | 0.28 | 0.38 | 53.1 |
| 4/26/2015 23:59:20 | 48.88 | 45.58 | 24 | 2.76 | 0.37 | 1.3 |
| 4/26/2015 23:59:28 | 49.21 | 45.91 | 35 | 3.02 | 0.40 | 1.9 |
| 4/26/2015 23:59:33 | 49.54 | 46.24 | 69 | 3.81 | 0.40 | 3.8 |
| 4/26/2015 23:59:38 | 49.87 | 46.57 | 63 | 4.04 | 0.40 | 3.4 |
| 4/26/2015 23:59:44 | 50.20 | 46.90 | 57 | 3.78 | 0.40 | 3.1 |
| 4/26/2015 23:59:50 | 50.53 | 47.23 | 69 | 3.93 | 0.40 | 3.8 |
| 4/26/2015 23:59:57 | 50.85 | 47.55 | 46 | 3.62 | 0.40 | 2.5 |
| 4/27/2015 0:00:04 | 51.18 | 47.88 | 49 | 3.60 | 0.40 | 2.7 |
| 4/27/2015 0:00:11 | 51.51 | 48.21 | 58 | 3.43 | 0.40 | 3.1 |
| 4/27/2015 0:00:17 | 51.84 | 48.54 | 61 | 4.37 | 0.40 | 3.3 |
| 4/27/2015 0:00:17 | 51.90 | 48.60 | 69 | 4.53 | 0.40 | 3.8 |

## H49 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:57:01

**End Date:**
4/27/2015 0:01:46

**Operator Note:**
'3.3 3.5 b Auto Complete'

**Northing:**
365,828.60

**Easting:**
249,402.05

**Tide (feet):**
3.30



## Hole: H5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:40:50 | 34.78 | 30.28 | 468 | 0.35 | 0.36 | 25.6 |
| 4/27/2015 5:40:51 | 35.11 | 30.61 | 474 | 0.35 | 0.36 | 25.9 |
| 4/27/2015 5:40:52 | 35.43 | 30.93 | 480 | 0.35 | 0.36 | 26.3 |
| 4/27/2015 5:40:53 | 35.76 | 31.26 | 492 | 0.35 | 0.36 | 26.9 |
| 4/27/2015 5:40:53 | 36.09 | 31.59 | 498 | 0.35 | 0.36 | 27.2 |
| 4/27/2015 5:40:54 | 36.42 | 31.92 | 503 | 0.35 | 0.35 | 27.5 |
| 4/27/2015 5:40:55 | 36.75 | 32.25 | 506 | 0.35 | 0.36 | 27.7 |
| 4/27/2015 5:40:55 | 37.07 | 32.57 | 506 | 0.35 | 0.36 | 27.7 |
| 4/27/2015 5:40:56 | 37.40 | 32.90 | 506 | 0.35 | 0.36 | 27.7 |
| 4/27/2015 5:40:57 | 37.73 | 33.23 | 506 | 0.35 | 0.36 | 27.6 |
| 4/27/2015 5:40:57 | 38.06 | 33.56 | 512 | 0.35 | 0.36 | 28.0 |
| 4/27/2015 5:40:58 | 38.39 | 33.89 | 512 | 0.41 | 0.36 | 28.0 |
| 4/27/2015 5:40:59 | 38.71 | 34.21 | 515 | 0.35 | 0.36 | 28.1 |
| 4/27/2015 5:40:59 | 39.04 | 34.54 | 524 | 0.36 | 0.36 | 28.6 |
| 4/27/2015 5:41:00 | 39.37 | 34.87 | 523 | 0.35 | 0.35 | 28.6 |
| 4/27/2015 5:41:00 | 39.70 | 35.20 | 529 | 0.35 | 0.35 | 28.9 |
| 4/27/2015 5:41:02 | 40.03 | 35.53 | 538 | 0.36 | 0.36 | 29.4 |
| 4/27/2015 5:41:02 | 40.35 | 35.85 | 548 | 0.36 | 0.35 | 30.0 |
| 4/27/2015 5:41:03 | 40.68 | 36.18 | 554 | 0.35 | 0.35 | 30.3 |
| 4/27/2015 5:41:03 | 41.01 | 36.51 | 559 | 0.35 | 0.35 | 30.6 |
| 4/27/2015 5:41:04 | 41.34 | 36.84 | 574 | 0.36 | 0.35 | 31.4 |
| 4/27/2015 5:41:05 | 41.67 | 37.17 | 587 | 0.36 | 0.35 | 32.1 |
| 4/27/2015 5:41:05 | 41.99 | 37.49 | 590 | 0.35 | 0.35 | 32.2 |
| 4/27/2015 5:41:06 | 42.32 | 37.82 | 598 | 0.35 | 0.35 | 32.7 |
| 4/27/2015 5:41:06 | 42.65 | 38.15 | 595 | 0.35 | 0.35 | 32.6 |
| 4/27/2015 5:41:07 | 42.98 | 38.48 | 598 | 0.35 | 0.35 | 32.7 |
| 4/27/2015 5:41:07 | 43.31 | 38.81 | 598 | 0.35 | 0.36 | 32.7 |
| 4/27/2015 5:41:08 | 43.64 | 39.14 | 561 | 0.33 | 0.38 | 30.7 |
| 4/27/2015 5:41:44 | 43.96 | 39.46 | 94 | 3.79 | 0.38 | 5.1 |
| 4/27/2015 5:41:58 | 44.29 | 39.79 | 0 | 6.67 | 0.37 | 0.0 |
| 4/27/2015 5:42:15 | 44.62 | 40.12 | 3 | 7.37 | 0.38 | 0.2 |
| 4/27/2015 5:42:17 | 44.95 | 40.45 | 170 | 4.37 | 0.40 | 9.3 |
| 4/27/2015 5:42:21 | 45.28 | 40.78 | 55 | 4.03 | 0.40 | 3.0 |
| 4/27/2015 5:42:27 | 45.60 | 41.10 | 75 | 4.05 | 0.40 | 4.1 |
| 4/27/2015 5:42:43 | 45.93 | 41.43 | 21 | 2.80 | 0.41 | 1.2 |
| 4/27/2015 5:42:52 | 46.26 | 41.76 | 46 | 3.35 | 0.40 | 2.5 |
| 4/27/2015 5:42:59 | 46.59 | 42.09 | 60 | 3.43 | 0.39 | 3.3 |
| 4/27/2015 5:43:05 | 46.92 | 42.42 | 55 | 3.32 | 0.41 | 3.0 |
| 4/27/2015 5:43:10 | 47.24 | 42.74 | 101 | 3.91 | 0.38 | 5.5 |
| 4/27/2015 5:43:11 | 47.57 | 43.07 | 187 | 3.89 | 0.39 | 10.2 |
| 4/27/2015 5:43:15 | 47.90 | 43.40 | 86 | 4.45 | 0.40 | 4.7 |
| 4/27/2015 5:43:22 | 48.23 | 43.73 | 46 | 3.05 | 0.39 | 2.5 |
| 4/27/2015 5:43:29 | 48.56 | 44.06 | 55 | 3.89 | 0.40 | 3.0 |
| 4/27/2015 5:43:35 | 48.88 | 44.38 | 49 | 3.14 | 0.41 | 2.7 |
| 4/27/2015 5:43:43 | 49.21 | 44.71 | 46 | 3.24 | 0.40 | 2.5 |
| 4/27/2015 5:43:51 | 49.54 | 45.04 | 49 | 2.99 | 0.40 | 2.7 |
| 4/27/2015 5:43:53 | 49.64 | 45.14 | 46 | 3.66 | 0.40 | 2.5 |

## H5 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:37:26

**End Date:**
4/27/2015 5:49:09

**Operator Note:**
'4.5 4.5 b Auto Complete'

**Northing:**
365,785.99

**Easting:**
249,229.10

**Tide (feet):**
4.50



## Hole: H50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:51:49 | 33.79 | 30.29 | 1,008 | 0.31 | 0.32 | 55.1 |
| 4/26/2015 23:51:50 | 34.12 | 30.62 | 1,008 | 0.31 | 0.32 | 55.1 |
| 4/26/2015 23:51:50 | 34.45 | 30.95 | 1,027 | 0.32 | 0.33 | 56.2 |
| 4/26/2015 23:51:50 | 34.78 | 31.28 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/26/2015 23:51:51 | 35.11 | 31.61 | 1,020 | 0.32 | 0.32 | 55.8 |
| 4/26/2015 23:51:51 | 35.43 | 31.93 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:51:51 | 35.76 | 32.26 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 23:51:52 | 36.09 | 32.59 | 1,012 | 0.33 | 0.32 | 55.3 |
| 4/26/2015 23:51:52 | 36.42 | 32.92 | 1,030 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 23:51:52 | 36.75 | 33.25 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/26/2015 23:51:53 | 37.07 | 33.57 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/26/2015 23:51:53 | 37.40 | 33.90 | 1,021 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:51:53 | 37.73 | 34.23 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/26/2015 23:51:54 | 38.06 | 34.56 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/26/2015 23:51:54 | 38.39 | 34.89 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:54 | 38.71 | 35.21 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/26/2015 23:51:55 | 39.04 | 35.54 | 1,032 | 0.33 | 0.32 | 56.4 |
| 4/26/2015 23:51:55 | 39.37 | 35.87 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 23:51:55 | 39.70 | 36.20 | 1,029 | 0.58 | 0.32 | 56.3 |
| 4/26/2015 23:51:56 | 40.03 | 36.53 | 1,029 | 0.58 | 0.32 | 56.3 |
| 4/26/2015 23:51:56 | 40.35 | 36.85 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/26/2015 23:51:57 | 40.68 | 37.18 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 23:51:57 | 41.01 | 37.51 | 1,029 | 0.33 | 0.32 | 56.3 |
| 4/26/2015 23:51:57 | 41.34 | 37.84 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:58 | 41.67 | 38.17 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:58 | 41.99 | 38.49 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:58 | 42.32 | 38.82 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:59 | 42.65 | 39.15 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:59 | 42.98 | 39.48 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:51:59 | 43.31 | 39.81 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 23:52:00 | 43.64 | 40.14 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/26/2015 23:52:00 | 43.96 | 40.46 | 1,026 | 0.32 | 0.32 | 56.1 |
| 4/26/2015 23:52:00 | 44.29 | 40.79 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:01 | 44.62 | 41.12 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:01 | 44.95 | 41.45 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:01 | 45.28 | 41.78 | 1,023 | 0.33 | 0.32 | 56.0 |
| 4/26/2015 23:52:02 | 45.60 | 42.10 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:02 | 45.93 | 42.43 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:02 | 46.26 | 42.76 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/26/2015 23:52:03 | 46.59 | 43.09 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 23:52:03 | 46.92 | 43.42 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 23:52:03 | 47.24 | 43.74 | 1,026 | 0.33 | 0.32 | 56.1 |
| 4/26/2015 23:52:04 | 47.57 | 44.07 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 23:52:04 | 47.90 | 44.40 | 1,018 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 23:52:04 | 48.23 | 44.73 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/26/2015 23:52:05 | 48.56 | 45.06 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 23:52:05 | 48.88 | 45.38 | 1,012 | 0.32 | 0.32 | 55.3 |
| 4/26/2015 23:52:05 | 49.21 | 45.71 | 1,012 | 0.31 | 0.34 | 55.3 |
| 4/26/2015 23:52:21 | 49.54 | 46.04 | 0 | 3.39 | 0.37 | 0.0 |
| 4/26/2015 23:52:23 | 49.87 | 46.37 | 138 | 3.26 | 0.40 | 7.5 |
| 4/26/2015 23:52:27 | 50.20 | 46.70 | 69 | 4.06 | 0.38 | 3.8 |
| 4/26/2015 23:52:28 | 50.53 | 47.03 | 167 | 4.53 | 0.39 | 9.1 |
| 4/26/2015 23:52:32 | 50.85 | 47.35 | 89 | 4.31 | 0.39 | 4.9 |
| 4/26/2015 23:52:38 | 51.18 | 47.68 | 58 | 3.84 | 0.40 | 3.2 |
| 4/26/2015 23:52:45 | 51.51 | 48.01 | 52 | 3.58 | 0.41 | 2.8 |
| 4/26/2015 23:52:53 | 51.84 | 48.34 | 46 | 4.18 | 0.40 | 2.5 |
| 4/26/2015 23:53:01 | 52.17 | 48.67 | 46 | 3.79 | 0.40 | 2.5 |
| 4/26/2015 23:53:02 | 52.23 | 48.73 | 43 | 3.98 | 0.41 | 2.4 |

## H50 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:49:44

**End Date:**
4/26/2015 23:55:08

**Operator Note:**
'3.5 3.6 b Auto Complete'

**Northing:**
365,864.56

**Easting:**
249,448.66

**Tide (feet):**
3.50



## Hole: H51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:50:49 | 33.79 | 30.29 | 608 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 23:50:49 | 34.12 | 30.62 | 608 | 1.76 | 0.15 | 33.3 |
| 4/26/2015 23:50:50 | 34.45 | 30.95 | 608 | 1.78 | 0.15 | 33.3 |
| 4/26/2015 23:50:50 | 34.78 | 31.28 | 617 | 1.81 | 0.16 | 33.7 |
| 4/26/2015 23:50:51 | 35.11 | 31.61 | 606 | 1.79 | 0.16 | 33.1 |
| 4/26/2015 23:50:52 | 35.43 | 31.93 | 616 | 1.80 | 0.17 | 33.7 |
| 4/26/2015 23:50:52 | 35.76 | 32.26 | 615 | 1.77 | 0.15 | 33.7 |
| 4/26/2015 23:50:53 | 36.09 | 32.59 | 607 | 1.78 | 0.16 | 33.2 |
| 4/26/2015 23:50:53 | 36.42 | 32.92 | 614 | 1.77 | 0.15 | 33.6 |
| 4/26/2015 23:50:54 | 36.75 | 33.25 | 592 | 1.77 | 0.16 | 32.4 |
| 4/26/2015 23:50:54 | 37.07 | 33.57 | 592 | 1.80 | 0.16 | 32.4 |
| 4/26/2015 23:50:55 | 37.40 | 33.90 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 23:50:55 | 37.73 | 34.23 | 601 | 1.77 | 0.15 | 32.9 |
| 4/26/2015 23:50:57 | 38.06 | 34.56 | 601 | 1.77 | 0.15 | 32.8 |
| 4/26/2015 23:50:57 | 38.39 | 34.89 | 613 | 1.79 | 0.16 | 33.5 |
| 4/26/2015 23:50:58 | 38.71 | 35.21 | 610 | 1.75 | 0.15 | 33.4 |
| 4/26/2015 23:50:58 | 39.04 | 35.54 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 23:50:59 | 39.37 | 35.87 | 604 | 1.79 | 0.15 | 33.0 |
| 4/26/2015 23:50:59 | 39.70 | 36.20 | 598 | 1.76 | 0.16 | 32.7 |
| 4/26/2015 23:51:00 | 40.03 | 36.53 | 608 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 23:51:01 | 40.35 | 36.85 | 605 | 1.81 | 0.15 | 33.1 |
| 4/26/2015 23:51:01 | 40.68 | 37.18 | 604 | 1.76 | 0.16 | 33.0 |
| 4/26/2015 23:51:02 | 41.01 | 37.51 | 607 | 1.81 | 0.15 | 33.2 |
| 4/26/2015 23:51:02 | 41.34 | 37.84 | 607 | 1.76 | 0.15 | 33.2 |
| 4/26/2015 23:51:03 | 41.67 | 38.17 | 605 | 1.78 | 0.15 | 33.1 |
| 4/26/2015 23:51:03 | 41.99 | 38.49 | 605 | 1.81 | 0.15 | 33.1 |
| 4/26/2015 23:51:04 | 42.32 | 38.82 | 607 | 1.78 | 0.15 | 33.2 |
| 4/26/2015 23:51:04 | 42.65 | 39.15 | 611 | 1.76 | 0.15 | 33.4 |
| 4/26/2015 23:51:05 | 42.98 | 39.48 | 601 | 1.81 | 0.15 | 32.8 |
| 4/26/2015 23:51:06 | 43.31 | 39.81 | 607 | 1.79 | 0.15 | 33.2 |
| 4/26/2015 23:51:06 | 43.64 | 40.14 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 23:51:07 | 43.96 | 40.46 | 604 | 1.78 | 0.16 | 33.0 |
| 4/26/2015 23:51:08 | 44.29 | 40.79 | 601 | 1.76 | 0.15 | 32.9 |
| 4/26/2015 23:51:08 | 44.62 | 41.12 | 604 | 1.70 | 0.15 | 33.0 |
| 4/26/2015 23:51:09 | 44.95 | 41.45 | 601 | 1.81 | 0.15 | 32.9 |
| 4/26/2015 23:51:10 | 45.28 | 41.78 | 598 | 1.79 | 0.15 | 32.7 |
| 4/26/2015 23:51:10 | 45.60 | 42.10 | 604 | 1.77 | 0.16 | 33.0 |
| 4/26/2015 23:51:11 | 45.93 | 42.43 | 604 | 1.78 | 0.15 | 33.0 |
| 4/26/2015 23:51:11 | 46.26 | 42.76 | 601 | 1.81 | 0.16 | 32.9 |
| 4/26/2015 23:51:12 | 46.59 | 43.09 | 601 | 1.79 | 0.15 | 32.9 |
| 4/26/2015 23:51:12 | 46.92 | 43.42 | 601 | 1.77 | 0.16 | 32.9 |
| 4/26/2015 23:51:13 | 47.24 | 43.74 | 601 | 1.78 | 0.15 | 32.9 |
| 4/26/2015 23:51:14 | 47.57 | 44.07 | 594 | 1.77 | 0.15 | 32.5 |
| 4/26/2015 23:51:14 | 47.90 | 44.40 | 605 | 1.79 | 0.15 | 33.1 |
| 4/26/2015 23:51:15 | 48.23 | 44.73 | 605 | 1.79 | 0.16 | 33.1 |
| 4/26/2015 23:51:15 | 48.56 | 45.06 | 602 | 1.79 | 0.16 | 32.9 |
| 4/26/2015 23:51:29 | 48.88 | 45.38 | 18 | 1.77 | 1.37 | 1.0 |
| 4/26/2015 23:51:35 | 49.21 | 45.71 | 46 | 1.77 | 1.15 | 2.5 |
| 4/26/2015 23:51:43 | 49.54 | 46.04 | 41 | 1.79 | 1.23 | 2.2 |
| 4/26/2015 23:51:52 | 49.87 | 46.37 | 40 | 1.80 | 1.19 | 2.2 |
| 4/26/2015 23:51:57 | 50.20 | 46.70 | 83 | 1.77 | 1.23 | 4.6 |
| 4/26/2015 23:52:00 | 50.53 | 47.03 | 165 | 1.78 | 1.16 | 9.0 |
| 4/26/2015 23:52:03 | 50.85 | 47.35 | 104 | 1.79 | 1.16 | 5.7 |
| 4/26/2015 23:52:09 | 51.18 | 47.68 | 63 | 1.79 | 1.18 | 3.5 |
| 4/26/2015 23:52:12 | 51.51 | 48.01 | 122 | 1.79 | 1.14 | 6.6 |
| 4/26/2015 23:52:20 | 51.84 | 48.34 | 35 | 1.79 | 1.12 | 1.9 |
| 4/26/2015 23:52:31 | 52.17 | 48.67 | 35 | 1.79 | 1.14 | 1.9 |
| 4/26/2015 23:52:39 | 52.49 | 48.99 | 29 | 1.79 | 1.10 | 1.6 |
| 4/26/2015 23:52:51 | 52.82 | 49.32 | 28 | 1.84 | 1.06 | 1.5 |
| 4/26/2015 23:53:01 | 53.10 | 49.60 | 29 | 1.79 | 1.17 | 1.6 |

## H51 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:48:49

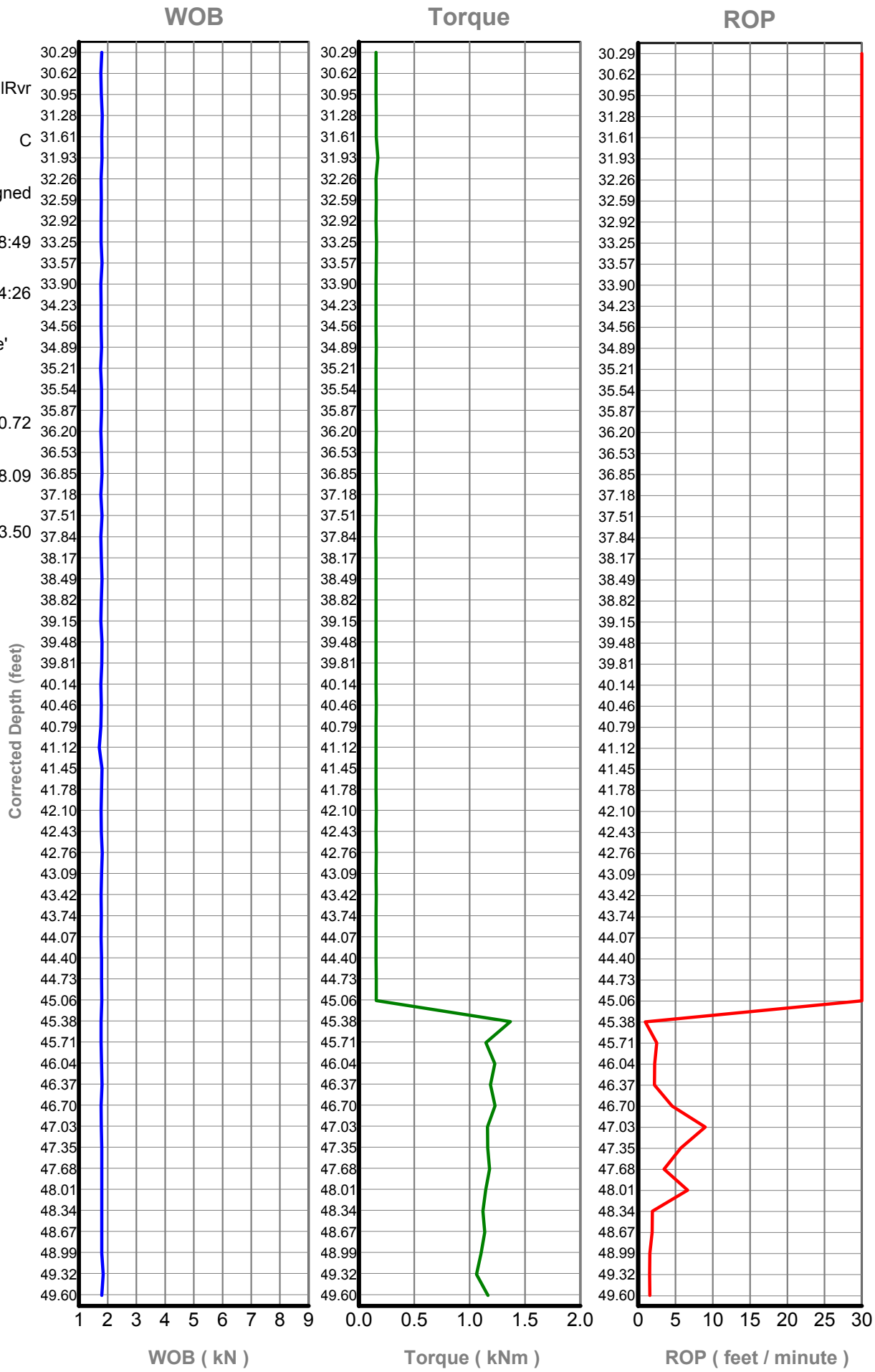
**End Date:**
4/26/2015 23:54:26

**Operator Note:**
'3.5 3.6 c Auto Complete'

**Northing:**
365,910.72

**Easting:**
249,508.09

**Tide (feet):**
3.50



## Hole: H52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:33:15 | 35.11 | 30.31 | 1,042 | 0.33 | 0.31 | 57.0 |
| 4/26/2015 22:33:15 | 35.43 | 30.63 | 1,042 | 0.31 | 0.31 | 57.0 |
| 4/26/2015 22:33:15 | 35.76 | 30.96 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:16 | 36.09 | 31.29 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:16 | 36.42 | 31.62 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:16 | 36.75 | 31.95 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 22:33:17 | 37.07 | 32.27 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 22:33:17 | 37.40 | 32.60 | 1,060 | 0.30 | 0.31 | 58.0 |
| 4/26/2015 22:33:17 | 37.73 | 32.93 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/26/2015 22:33:18 | 38.06 | 33.26 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/26/2015 22:33:18 | 38.39 | 33.59 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:33:18 | 38.71 | 33.91 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:33:19 | 39.04 | 34.24 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:33:19 | 39.37 | 34.57 | 1,023 | 0.31 | 0.23 | 55.9 |
| 4/26/2015 22:33:19 | 39.70 | 34.90 | 1,021 | 0.31 | 0.30 | 55.8 |
| 4/26/2015 22:33:20 | 40.03 | 35.23 | 1,021 | 0.31 | 0.30 | 55.8 |
| 4/26/2015 22:33:20 | 40.35 | 35.55 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 22:33:20 | 40.68 | 35.88 | 1,018 | 0.23 | 0.31 | 55.7 |
| 4/26/2015 22:33:21 | 41.01 | 36.21 | 1,018 | 0.23 | 0.31 | 55.7 |
| 4/26/2015 22:33:21 | 41.34 | 36.54 | 1,044 | 0.33 | 0.31 | 57.1 |
| 4/26/2015 22:33:21 | 41.67 | 36.87 | 1,060 | 0.31 | 0.31 | 58.0 |
| 4/26/2015 22:33:22 | 41.99 | 37.19 | 1,060 | 0.31 | 0.31 | 58.0 |
| 4/26/2015 22:33:22 | 42.32 | 37.52 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 22:33:23 | 42.65 | 37.85 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 22:33:23 | 42.98 | 38.18 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 22:33:23 | 43.31 | 38.51 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:24 | 43.64 | 38.84 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:24 | 43.96 | 39.16 | 1,028 | 0.31 | 0.31 | 56.2 |
| 4/26/2015 22:33:24 | 44.29 | 39.49 | 1,027 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:33:25 | 44.62 | 39.82 | 1,027 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:33:25 | 44.95 | 40.15 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:33:25 | 45.28 | 40.48 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:33:26 | 45.60 | 40.80 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:33:26 | 45.93 | 41.13 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 22:33:26 | 46.26 | 41.46 | 1,062 | 0.31 | 0.32 | 58.1 |
| 4/26/2015 22:33:27 | 46.59 | 41.79 | 1,062 | 0.31 | 0.32 | 58.1 |
| 4/26/2015 22:33:27 | 46.92 | 42.12 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 22:33:27 | 47.24 | 42.44 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 22:33:28 | 47.57 | 42.77 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 22:33:28 | 47.90 | 43.10 | 1,014 | 0.30 | 0.31 | 55.5 |
| 4/26/2015 22:33:28 | 48.23 | 43.43 | 1,014 | 0.30 | 0.31 | 55.5 |
| 4/26/2015 22:33:29 | 48.56 | 43.76 | 1,014 | 0.30 | 0.31 | 55.5 |
| 4/26/2015 22:33:29 | 48.88 | 44.08 | 1,025 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:33:29 | 49.21 | 44.41 | 1,026 | 0.31 | 0.33 | 56.1 |
| 4/26/2015 22:33:30 | 49.54 | 44.74 | 995 | 0.29 | 0.36 | 54.4 |
| 4/26/2015 22:33:38 | 49.87 | 45.07 | 14 | 4.21 | 0.37 | 0.8 |
| 4/26/2015 22:33:44 | 50.20 | 45.40 | 3 | 3.20 | 0.36 | 0.2 |
| 4/26/2015 22:33:45 | 50.53 | 45.73 | 48 | 3.48 | 0.36 | 2.7 |
| 4/26/2015 22:33:48 | 50.85 | 46.05 | 0 | 2.46 | 0.31 | 0.0 |
| 4/26/2015 22:33:49 | 51.18 | 46.38 | 0 | 3.99 | 0.37 | 0.0 |
| 4/26/2015 22:33:52 | 51.51 | 46.71 | 168 | 3.88 | 0.37 | 9.2 |
| 4/26/2015 22:33:56 | 51.84 | 47.04 | 83 | 2.76 | 0.34 | 4.6 |
| 4/26/2015 22:34:19 | 52.17 | 47.37 | 0 | 3.14 | 0.36 | 0.0 |
| 4/26/2015 22:34:20 | 52.49 | 47.69 | 151 | 3.40 | 0.37 | 8.3 |
| 4/26/2015 22:34:21 | 52.82 | 48.02 | 308 | 2.88 | 0.37 | 16.8 |
| 4/26/2015 22:34:22 | 53.15 | 48.35 | 405 | 2.76 | 0.36 | 22.1 |
| 4/26/2015 22:34:22 | 53.48 | 48.68 | 425 | 3.42 | 0.36 | 23.3 |
| 4/26/2015 22:34:29 | 53.81 | 49.01 | 102 | 2.59 | 0.36 | 5.6 |
| 4/26/2015 22:34:29 | 54.13 | 49.33 | 208 | 3.16 | 0.38 | 11.4 |
| 4/26/2015 22:34:31 | 54.46 | 49.66 | 331 | 3.46 | 0.38 | 18.1 |
| 4/26/2015 22:34:32 | 54.79 | 49.99 | 216 | 3.01 | 0.38 | 11.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:34:34 | 55.12 | 50.32 | 220 | 2.65 | 0.38 | 12.0 |
| 4/26/2015 | 22:34:35 | 55.45 | 50.65 | 268 | 3.90 | 0.38 | 14.7 |
| 4/26/2015 | 22:34:37 | 55.77 | 50.97 | 210 | 3.14 | 0.39 | 11.5 |
| 4/26/2015 | 22:34:48 | 56.10 | 51.30 | 19 | 3.26 | 0.39 | 1.0 |
| 4/26/2015 | 22:34:51 | 56.43 | 51.63 | 118 | 3.58 | 0.39 | 6.4 |
| 4/26/2015 | 22:34:54 | 56.76 | 51.96 | 101 | 4.07 | 0.40 | 5.5 |
| 4/26/2015 | 22:34:59 | 57.09 | 52.29 | 73 | 3.39 | 0.40 | 4.0 |
| 4/26/2015 | 22:35:03 | 57.41 | 52.61 | 101 | 4.51 | 0.39 | 5.5 |
| 4/26/2015 | 22:35:05 | 57.74 | 52.94 | 162 | 3.97 | 0.39 | 8.9 |
| 4/26/2015 | 22:35:07 | 58.07 | 53.27 | 223 | 2.99 | 0.39 | 12.2 |
| 4/26/2015 | 22:35:08 | 58.40 | 53.60 | 234 | 3.61 | 0.38 | 12.8 |
| 4/26/2015 | 22:35:10 | 58.73 | 53.93 | 173 | 3.07 | 0.40 | 9.5 |
| 4/26/2015 | 22:35:14 | 59.06 | 54.26 | 100 | 3.37 | 0.39 | 5.5 |
| 4/26/2015 | 22:35:18 | 59.38 | 54.58 | 73 | 4.27 | 0.39 | 4.0 |
| 4/26/2015 | 22:35:23 | 59.71 | 54.91 | 78 | 4.21 | 0.40 | 4.2 |
| 4/26/2015 | 22:35:31 | 60.04 | 55.24 | 47 | 4.07 | 0.40 | 2.6 |
| 4/26/2015 | 22:35:36 | 60.28 | 55.48 | 42 | 3.45 | 0.40 | 2.3 |

## H52 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:30:51

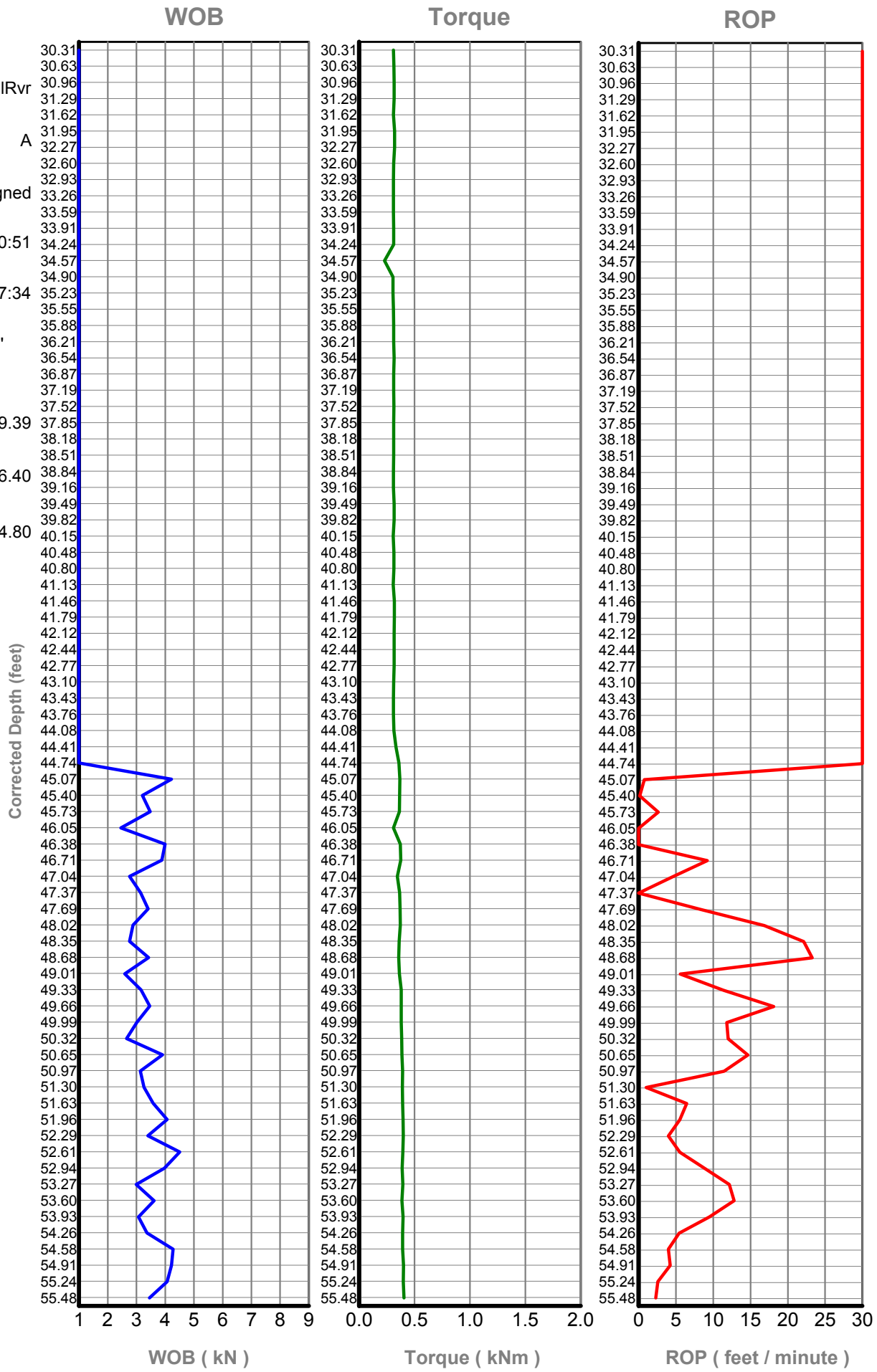
**End Date:**
4/26/2015 22:37:34

**Operator Note:**
'4.8 5.0b Auto Complete'

**Northing:**
365,969.39

**Easting:**
249,576.40

**Tide (feet):**
4.80



## Hole: H53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:40:00 | 35.11 | 30.31 | 1,038 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 22:40:00 | 35.43 | 30.63 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:00 | 35.76 | 30.96 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 22:40:01 | 36.09 | 31.29 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 22:40:01 | 36.42 | 31.62 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 22:40:01 | 36.75 | 31.95 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:02 | 37.07 | 32.27 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:02 | 37.40 | 32.60 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 22:40:02 | 37.73 | 32.93 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 22:40:03 | 38.06 | 33.26 | 1,020 | 0.31 | 0.32 | 55.8 |
| 4/26/2015 22:40:03 | 38.39 | 33.59 | 1,014 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 22:40:03 | 38.71 | 33.91 | 1,023 | 0.33 | 0.31 | 56.0 |
| 4/26/2015 22:40:04 | 39.04 | 34.24 | 1,023 | 0.33 | 0.31 | 56.0 |
| 4/26/2015 22:40:04 | 39.37 | 34.57 | 1,023 | 0.32 | 0.32 | 56.0 |
| 4/26/2015 22:40:04 | 39.70 | 34.90 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 22:40:05 | 40.03 | 35.23 | 1,023 | 0.31 | 0.31 | 56.0 |
| 4/26/2015 22:40:05 | 40.35 | 35.55 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:05 | 40.68 | 35.88 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 22:40:06 | 41.01 | 36.21 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 22:40:06 | 41.34 | 36.54 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:06 | 41.67 | 36.87 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:07 | 41.99 | 37.19 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:07 | 42.32 | 37.52 | 1,023 | 0.32 | 0.31 | 55.9 |
| 4/26/2015 22:40:07 | 42.65 | 37.85 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:08 | 42.98 | 38.18 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:08 | 43.31 | 38.51 | 1,026 | 0.31 | 0.32 | 56.1 |
| 4/26/2015 22:40:09 | 43.64 | 38.84 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:40:09 | 43.96 | 39.16 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:40:09 | 44.29 | 39.49 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:40:10 | 44.62 | 39.82 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:10 | 44.95 | 40.15 | 1,032 | 0.31 | 0.31 | 56.4 |
| 4/26/2015 22:40:10 | 45.28 | 40.48 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:40:11 | 45.60 | 40.80 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/26/2015 22:40:11 | 45.93 | 41.13 | 1,026 | 0.32 | 0.31 | 56.1 |
| 4/26/2015 22:40:11 | 46.26 | 41.46 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/26/2015 22:40:12 | 46.59 | 41.79 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:40:12 | 46.92 | 42.12 | 1,026 | 0.31 | 0.31 | 56.1 |
| 4/26/2015 22:40:12 | 47.24 | 42.44 | 995 | 0.31 | 0.31 | 54.4 |
| 4/26/2015 22:40:13 | 47.57 | 42.77 | 989 | 0.31 | 0.31 | 54.1 |
| 4/26/2015 22:40:13 | 47.90 | 43.10 | 989 | 0.31 | 0.31 | 54.1 |
| 4/26/2015 22:40:13 | 48.23 | 43.43 | 989 | 0.31 | 0.31 | 54.1 |
| 4/26/2015 22:40:14 | 48.56 | 43.76 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 22:40:14 | 48.88 | 44.08 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/26/2015 22:40:14 | 49.21 | 44.41 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 22:40:15 | 49.54 | 44.74 | 983 | 0.31 | 0.31 | 53.8 |
| 4/26/2015 22:40:15 | 49.87 | 45.07 | 983 | 0.31 | 0.31 | 53.8 |
| 4/26/2015 22:40:15 | 50.20 | 45.40 | 983 | 0.31 | 0.32 | 53.8 |
| 4/26/2015 22:40:16 | 50.53 | 45.73 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/26/2015 22:40:17 | 50.85 | 46.05 | 1,007 | 0.31 | 0.32 | 55.1 |
| 4/26/2015 22:40:16 | 51.18 | 46.38 | 1,001 | 0.29 | 0.34 | 54.8 |
| 4/26/2015 22:40:23 | 51.51 | 46.71 | 47 | 4.39 | 0.36 | 2.6 |
| 4/26/2015 22:40:24 | 51.84 | 47.04 | 184 | 3.49 | 0.39 | 10.1 |
| 4/26/2015 22:40:27 | 52.17 | 47.37 | 166 | 3.75 | 0.38 | 9.1 |
| 4/26/2015 22:40:28 | 52.49 | 47.69 | 165 | 3.52 | 0.37 | 9.0 |
| 4/26/2015 22:40:30 | 52.82 | 48.02 | 213 | 3.42 | 0.39 | 11.7 |
| 4/26/2015 22:40:38 | 53.15 | 48.35 | 89 | 3.77 | 0.39 | 4.9 |
| 4/26/2015 22:40:43 | 53.48 | 48.68 | 97 | 3.52 | 0.39 | 5.3 |
| 4/26/2015 22:40:46 | 53.81 | 49.01 | 93 | 3.09 | 0.39 | 5.1 |
| 4/26/2015 22:40:50 | 54.13 | 49.33 | 93 | 3.54 | 0.40 | 5.1 |
| 4/26/2015 22:40:55 | 54.46 | 49.66 | 68 | 4.50 | 0.39 | 3.7 |
| 4/26/2015 22:41:01 | 54.79 | 49.99 | 57 | 3.73 | 0.39 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:41:07 | 55.12 | 50.32 | 48 | 3.38 | 0.39 | 2.6 |
| 4/26/2015 | 22:41:14 | 55.45 | 50.65 | 52 | 3.01 | 0.40 | 2.8 |
| 4/26/2015 | 22:41:17 | 55.62 | 50.82 | 53 | 3.69 | 0.40 | 2.9 |

## H53 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:38:20

**End Date:**
4/26/2015 22:42:20

**Operator Note:**
'4.8 4.9b Auto Complete'

**Northing:**
366,006.07

**Easting:**
249,621.83

**Tide (feet):**
4.80



## Hole: H54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:32:33 | 35.11 | 30.31 | 556 | 1.77 | 0.16 | 30.4 |
| 4/26/2015 22:32:34 | 35.43 | 30.63 | 562 | 1.76 | 0.15 | 30.7 |
| 4/26/2015 22:32:34 | 35.76 | 30.96 | 552 | 1.75 | 0.15 | 30.2 |
| 4/26/2015 22:32:35 | 36.09 | 31.29 | 552 | 1.78 | 0.15 | 30.2 |
| 4/26/2015 22:32:35 | 36.42 | 31.62 | 552 | 1.76 | 0.15 | 30.2 |
| 4/26/2015 22:32:36 | 36.75 | 31.95 | 543 | 1.80 | 0.15 | 29.7 |
| 4/26/2015 22:32:37 | 37.07 | 32.27 | 546 | 1.79 | 0.15 | 29.8 |
| 4/26/2015 22:32:37 | 37.40 | 32.60 | 546 | 1.77 | 0.16 | 29.8 |
| 4/26/2015 22:32:38 | 37.73 | 32.93 | 549 | 1.77 | 0.15 | 30.0 |
| 4/26/2015 22:32:38 | 38.06 | 33.26 | 549 | 1.77 | 0.15 | 30.0 |
| 4/26/2015 22:32:39 | 38.39 | 33.59 | 552 | 1.75 | 0.15 | 30.2 |
| 4/26/2015 22:32:40 | 38.71 | 33.91 | 555 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 22:32:40 | 39.04 | 34.24 | 552 | 1.77 | 0.16 | 30.2 |
| 4/26/2015 22:32:41 | 39.37 | 34.57 | 552 | 1.77 | 0.15 | 30.2 |
| 4/26/2015 22:32:42 | 39.70 | 34.90 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 22:32:43 | 40.03 | 35.23 | 549 | 1.74 | 0.16 | 30.0 |
| 4/26/2015 22:32:43 | 40.35 | 35.55 | 546 | 1.76 | 0.16 | 29.9 |
| 4/26/2015 22:32:44 | 40.68 | 35.88 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 22:32:45 | 41.01 | 36.21 | 552 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 22:32:45 | 41.34 | 36.54 | 552 | 1.78 | 0.16 | 30.2 |
| 4/26/2015 22:32:46 | 41.67 | 36.87 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 22:32:46 | 41.99 | 37.19 | 552 | 1.79 | 0.16 | 30.2 |
| 4/26/2015 22:32:47 | 42.32 | 37.52 | 552 | 1.78 | 0.16 | 30.2 |
| 4/26/2015 22:32:48 | 42.65 | 37.85 | 546 | 1.74 | 0.16 | 29.9 |
| 4/26/2015 22:32:48 | 42.98 | 38.18 | 546 | 1.76 | 0.16 | 29.9 |
| 4/26/2015 22:32:49 | 43.31 | 38.51 | 551 | 1.74 | 0.16 | 30.1 |
| 4/26/2015 22:32:50 | 43.64 | 38.84 | 545 | 1.77 | 0.16 | 29.8 |
| 4/26/2015 22:32:50 | 43.96 | 39.16 | 545 | 1.79 | 0.16 | 29.8 |
| 4/26/2015 22:32:51 | 44.29 | 39.49 | 554 | 1.78 | 0.16 | 30.3 |
| 4/26/2015 22:32:52 | 44.62 | 39.82 | 546 | 1.76 | 0.16 | 29.9 |
| 4/26/2015 22:32:53 | 44.95 | 40.15 | 550 | 1.77 | 0.16 | 30.1 |
| 4/26/2015 22:32:53 | 45.28 | 40.48 | 547 | 1.76 | 0.16 | 29.9 |
| 4/26/2015 22:32:54 | 45.60 | 40.80 | 541 | 1.77 | 0.15 | 29.6 |
| 4/26/2015 22:32:54 | 45.93 | 41.13 | 550 | 1.79 | 0.16 | 30.1 |
| 4/26/2015 22:32:55 | 46.26 | 41.46 | 547 | 1.76 | 0.16 | 29.9 |
| 4/26/2015 22:32:56 | 46.59 | 41.79 | 536 | 1.76 | 0.16 | 29.3 |
| 4/26/2015 22:32:56 | 46.92 | 42.12 | 536 | 1.76 | 0.15 | 29.3 |
| 4/26/2015 22:32:57 | 47.24 | 42.44 | 547 | 1.79 | 0.15 | 29.9 |
| 4/26/2015 22:32:58 | 47.57 | 42.77 | 544 | 1.77 | 0.16 | 29.7 |
| 4/26/2015 22:32:58 | 47.90 | 43.10 | 537 | 1.69 | 0.16 | 29.4 |
| 4/26/2015 22:32:59 | 48.23 | 43.43 | 552 | 1.77 | 0.16 | 30.2 |
| 4/26/2015 22:32:59 | 48.56 | 43.76 | 540 | 1.74 | 0.16 | 29.5 |
| 4/26/2015 22:33:00 | 48.88 | 44.08 | 540 | 1.76 | 0.16 | 29.5 |
| 4/26/2015 22:33:01 | 49.21 | 44.41 | 540 | 1.75 | 0.16 | 29.5 |
| 4/26/2015 22:33:01 | 49.54 | 44.74 | 542 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 22:33:02 | 49.87 | 45.07 | 545 | 1.77 | 0.16 | 29.8 |
| 4/26/2015 22:33:03 | 50.20 | 45.40 | 542 | 1.76 | 0.16 | 29.6 |
| 4/26/2015 22:33:04 | 50.53 | 45.73 | 542 | 1.81 | 0.16 | 29.6 |
| 4/26/2015 22:33:04 | 50.85 | 46.05 | 539 | 1.78 | 0.16 | 29.5 |
| 4/26/2015 22:33:05 | 51.18 | 46.38 | 534 | 1.76 | 0.16 | 29.2 |
| 4/26/2015 22:33:06 | 51.51 | 46.71 | 534 | 1.70 | 0.16 | 29.2 |
| 4/26/2015 22:33:06 | 51.84 | 47.04 | 541 | 1.72 | 0.16 | 29.6 |
| 4/26/2015 22:33:15 | 52.17 | 47.37 | 14 | 1.75 | 1.21 | 0.8 |
| 4/26/2015 22:33:16 | 52.49 | 47.69 | 197 | 1.74 | 1.17 | 10.8 |
| 4/26/2015 22:33:17 | 52.82 | 48.02 | 319 | 1.74 | 1.13 | 17.4 |
| 4/26/2015 22:33:24 | 53.15 | 48.35 | 0 | 1.79 | 1.22 | 0.0 |
| 4/26/2015 22:33:25 | 53.48 | 48.68 | 149 | 1.72 | 1.13 | 8.1 |
| 4/26/2015 22:33:32 | 53.81 | 49.01 | 21 | 1.78 | 1.24 | 1.1 |
| 4/26/2015 22:33:35 | 54.13 | 49.33 | 102 | 1.76 | 1.15 | 5.6 |
| 4/26/2015 22:33:37 | 54.46 | 49.66 | 138 | 1.79 | 1.12 | 7.5 |
| 4/26/2015 22:33:40 | 54.79 | 49.99 | 121 | 1.77 | 1.17 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:33:48 | 55.12 | 50.32 | 48 | 1.78 | 1.13 | 2.6 |
| 4/26/2015 | 22:33:57 | 55.45 | 50.65 | 42 | 1.79 | 1.14 | 2.3 |
| 4/26/2015 | 22:34:03 | 55.77 | 50.97 | 63 | 1.80 | 1.16 | 3.5 |
| 4/26/2015 | 22:34:14 | 56.10 | 51.30 | 32 | 1.79 | 1.11 | 1.7 |
| 4/26/2015 | 22:34:17 | 56.17 | 51.37 | 29 | 1.52 | 1.12 | 1.6 |

## H54 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:30:13

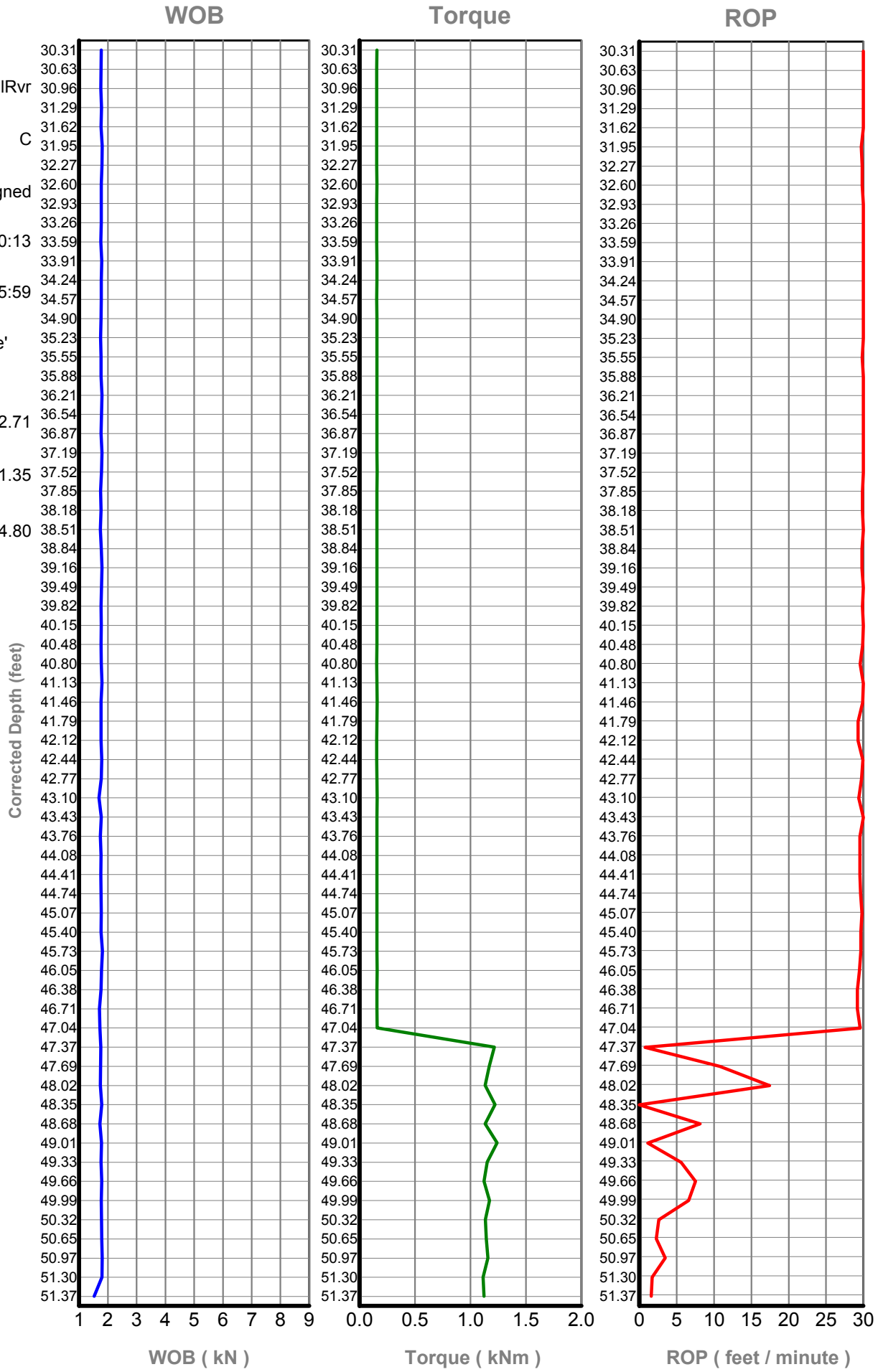
**End Date:**
4/26/2015 22:35:59

**Operator Note:**
'4.8 5.0 c Auto Complete'

**Northing:**
366,052.71

**Easting:**
249,681.35

**Tide (feet):**
4.80



## Hole: H55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:39:04 | 31.17 | 30.07 | 1,060 | 0.30 | 0.31 | 57.9 |
| 4/26/2015 13:39:05 | 31.50 | 30.40 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:39:05 | 31.82 | 30.72 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:39:05 | 32.15 | 31.05 | 1,068 | 0.30 | 0.31 | 58.4 |
| 4/26/2015 13:39:06 | 32.48 | 31.38 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 13:39:07 | 32.81 | 31.71 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 13:39:07 | 33.14 | 32.04 | 1,091 | 0.31 | 0.31 | 59.7 |
| 4/26/2015 13:39:07 | 33.46 | 32.36 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:39:08 | 33.79 | 32.69 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:39:08 | 34.12 | 33.02 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/26/2015 13:39:08 | 34.45 | 33.35 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/26/2015 13:39:08 | 34.78 | 33.68 | 1,082 | 0.31 | 0.31 | 59.1 |
| 4/26/2015 13:39:09 | 35.11 | 34.01 | 1,066 | 0.31 | 0.32 | 58.3 |
| 4/26/2015 13:39:09 | 35.43 | 34.33 | 1,066 | 0.31 | 0.32 | 58.3 |
| 4/26/2015 13:39:09 | 35.76 | 34.66 | 1,080 | 0.31 | 0.31 | 59.0 |
| 4/26/2015 13:39:10 | 36.09 | 34.99 | 1,071 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 13:39:10 | 36.42 | 35.32 | 1,071 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 13:39:10 | 36.75 | 35.65 | 1,086 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 13:39:11 | 37.07 | 35.97 | 1,076 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 13:39:11 | 37.40 | 36.30 | 1,076 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 13:39:11 | 37.73 | 36.63 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 13:39:12 | 38.06 | 36.96 | 1,070 | 0.31 | 0.32 | 58.5 |
| 4/26/2015 13:39:12 | 38.39 | 37.29 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 13:39:12 | 38.71 | 37.61 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:39:13 | 39.04 | 37.94 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:39:13 | 39.37 | 38.27 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/26/2015 13:39:13 | 39.70 | 38.60 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:39:14 | 40.03 | 38.93 | 1,069 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:39:14 | 40.35 | 39.25 | 1,068 | 0.31 | 0.31 | 58.4 |
| 4/26/2015 13:39:14 | 40.68 | 39.58 | 1,083 | 0.31 | 0.31 | 59.2 |
| 4/26/2015 13:39:15 | 41.01 | 39.91 | 1,083 | 0.31 | 0.31 | 59.2 |
| 4/26/2015 13:39:15 | 41.34 | 40.24 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/26/2015 13:39:15 | 41.67 | 40.57 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/26/2015 13:39:15 | 41.99 | 40.89 | 1,072 | 0.30 | 0.31 | 58.6 |
| 4/26/2015 13:39:16 | 42.32 | 41.22 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/26/2015 13:39:17 | 42.65 | 41.55 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/26/2015 13:39:17 | 42.98 | 41.88 | 1,078 | 0.31 | 0.31 | 59.0 |
| 4/26/2015 13:39:17 | 43.31 | 42.21 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:39:18 | 43.64 | 42.54 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:39:18 | 43.96 | 42.86 | 1,075 | 0.31 | 0.31 | 58.8 |
| 4/26/2015 13:39:18 | 44.29 | 43.19 | 1,074 | 0.30 | 0.31 | 58.8 |
| 4/26/2015 13:39:19 | 44.62 | 43.52 | 1,074 | 0.30 | 0.31 | 58.8 |
| 4/26/2015 13:39:19 | 44.95 | 43.85 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/26/2015 13:39:19 | 45.28 | 44.18 | 1,081 | 0.31 | 0.31 | 59.1 |
| 4/26/2015 13:39:19 | 45.60 | 44.50 | 1,073 | 0.31 | 0.32 | 58.7 |
| 4/26/2015 13:39:25 | 45.93 | 44.83 | 9 | 2.40 | 0.34 | 0.5 |
| 4/26/2015 13:39:25 | 46.26 | 45.16 | 121 | 3.09 | 0.34 | 6.6 |
| 4/26/2015 13:39:29 | 46.59 | 45.49 | 67 | 3.72 | 0.37 | 3.6 |
| 4/26/2015 13:39:30 | 46.92 | 45.82 | 107 | 4.28 | 0.41 | 5.9 |
| 4/26/2015 13:39:46 | 47.24 | 46.14 | 0 | 4.13 | 0.38 | 0.0 |
| 4/26/2015 13:39:49 | 47.57 | 46.47 | 148 | 4.14 | 0.39 | 8.1 |
| 4/26/2015 13:39:52 | 47.90 | 46.80 | 103 | 3.81 | 0.39 | 5.6 |
| 4/26/2015 13:39:55 | 48.23 | 47.13 | 129 | 3.34 | 0.39 | 7.1 |
| 4/26/2015 13:39:59 | 48.56 | 47.46 | 101 | 3.75 | 0.39 | 5.5 |
| 4/26/2015 13:40:02 | 48.88 | 47.78 | 119 | 4.16 | 0.40 | 6.5 |
| 4/26/2015 13:40:06 | 49.21 | 48.11 | 67 | 3.62 | 0.39 | 3.6 |
| 4/26/2015 13:40:12 | 49.54 | 48.44 | 70 | 3.52 | 0.40 | 3.8 |
| 4/26/2015 13:40:18 | 49.87 | 48.77 | 63 | 3.43 | 0.40 | 3.4 |
| 4/26/2015 13:40:22 | 50.06 | 48.96 | 50 | 3.55 | 0.39 | 2.8 |

## H55 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:37:41

**End Date:**
4/26/2015 13:41:31

**Operator Note:**
'1.1 1.1 b Auto Complete'

**Northing:**
366,112.35

**Easting:**
249,754.09

**Tide (feet):**
1.10



## Hole: H56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:43:14 | 31.17 | 30.07 | 1,095 | 0.30 | 0.30 | 59.9 |
| 4/26/2015 13:43:14 | 31.50 | 30.40 | 1,092 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:43:15 | 31.82 | 30.72 | 1,092 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:43:15 | 32.15 | 31.05 | 1,089 | 0.31 | 0.31 | 59.6 |
| 4/26/2015 13:43:15 | 32.48 | 31.38 | 1,114 | 0.30 | 0.31 | 60.9 |
| 4/26/2015 13:43:16 | 32.81 | 31.71 | 1,114 | 0.30 | 0.31 | 60.9 |
| 4/26/2015 13:43:16 | 33.14 | 32.04 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:17 | 33.46 | 32.36 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:43:17 | 33.79 | 32.69 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:43:17 | 34.12 | 33.02 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:18 | 34.45 | 33.35 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:18 | 34.78 | 33.68 | 1,092 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:43:18 | 35.11 | 34.01 | 1,092 | 0.32 | 0.31 | 59.7 |
| 4/26/2015 13:43:19 | 35.43 | 34.33 | 1,092 | 0.32 | 0.31 | 59.7 |
| 4/26/2015 13:43:19 | 35.76 | 34.66 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 13:43:19 | 36.09 | 34.99 | 1,097 | 0.29 | 0.31 | 60.0 |
| 4/26/2015 13:43:19 | 36.42 | 35.32 | 1,095 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 13:43:20 | 36.75 | 35.65 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 13:43:20 | 37.07 | 35.97 | 1,089 | 0.29 | 0.31 | 59.5 |
| 4/26/2015 13:43:20 | 37.40 | 36.30 | 1,088 | 0.30 | 0.30 | 59.5 |
| 4/26/2015 13:43:21 | 37.73 | 36.63 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 13:43:21 | 38.06 | 36.96 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 13:43:21 | 38.39 | 37.29 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:43:22 | 38.71 | 37.61 | 1,099 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:43:22 | 39.04 | 37.94 | 1,095 | 0.30 | 0.30 | 59.9 |
| 4/26/2015 13:43:22 | 39.37 | 38.27 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:23 | 39.70 | 38.60 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:23 | 40.03 | 38.93 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:43:23 | 40.35 | 39.25 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:43:24 | 40.68 | 39.58 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:43:24 | 41.01 | 39.91 | 1,087 | 0.30 | 0.30 | 59.4 |
| 4/26/2015 13:43:24 | 41.34 | 40.24 | 1,087 | 0.30 | 0.30 | 59.4 |
| 4/26/2015 13:43:24 | 41.67 | 40.57 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:43:25 | 41.99 | 40.89 | 1,097 | 0.29 | 0.30 | 60.0 |
| 4/26/2015 13:43:25 | 42.32 | 41.22 | 1,097 | 0.29 | 0.30 | 60.0 |
| 4/26/2015 13:43:25 | 42.65 | 41.55 | 1,097 | 0.30 | 0.31 | 60.0 |
| 4/26/2015 13:43:26 | 42.98 | 41.88 | 1,091 | 0.30 | 0.31 | 59.6 |
| 4/26/2015 13:43:27 | 43.31 | 42.21 | 1,091 | 0.30 | 0.31 | 59.6 |
| 4/26/2015 13:43:27 | 43.64 | 42.54 | 1,115 | 0.30 | 0.31 | 61.0 |
| 4/26/2015 13:43:27 | 43.96 | 42.86 | 1,115 | 0.30 | 0.31 | 61.0 |
| 4/26/2015 13:43:27 | 44.29 | 43.19 | 1,101 | 0.30 | 0.30 | 60.2 |
| 4/26/2015 13:43:28 | 44.62 | 43.52 | 1,098 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:43:28 | 44.95 | 43.85 | 1,098 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:43:28 | 45.28 | 44.18 | 1,096 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 13:43:29 | 45.60 | 44.50 | 1,102 | 0.31 | 0.31 | 60.3 |
| 4/26/2015 13:43:29 | 45.93 | 44.83 | 1,102 | 0.31 | 0.31 | 60.3 |
| 4/26/2015 13:43:29 | 46.26 | 45.16 | 1,090 | 0.29 | 0.34 | 59.6 |
| 4/26/2015 13:43:34 | 46.59 | 45.49 | 80 | 3.46 | 0.38 | 4.4 |
| 4/26/2015 13:43:39 | 46.92 | 45.82 | 97 | 4.10 | 0.38 | 5.3 |
| 4/26/2015 13:43:40 | 47.24 | 46.14 | 200 | 3.18 | 0.37 | 10.9 |
| 4/26/2015 13:43:44 | 47.57 | 46.47 | 34 | 3.77 | 0.37 | 1.9 |
| 4/26/2015 13:43:45 | 47.90 | 46.80 | 220 | 3.96 | 0.37 | 12.0 |
| 4/26/2015 13:43:52 | 48.23 | 47.13 | 61 | 3.70 | 0.40 | 3.3 |
| 4/26/2015 13:43:53 | 48.56 | 47.46 | 164 | 2.62 | 0.36 | 9.0 |
| 4/26/2015 13:43:53 | 48.88 | 47.78 | 237 | 2.59 | 0.36 | 13.0 |
| 4/26/2015 13:43:54 | 49.21 | 48.11 | 397 | 2.92 | 0.41 | 21.7 |
| 4/26/2015 13:43:55 | 49.54 | 48.44 | 457 | 3.86 | 0.38 | 25.0 |
| 4/26/2015 13:43:59 | 49.87 | 48.77 | 66 | 3.76 | 0.38 | 3.6 |
| 4/26/2015 13:44:00 | 50.20 | 49.10 | 197 | 6.73 | 0.37 | 10.8 |
| 4/26/2015 13:44:03 | 50.53 | 49.43 | 125 | 5.04 | 0.36 | 6.9 |
| 4/26/2015 13:44:04 | 50.85 | 49.75 | 180 | 4.23 | 0.37 | 9.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 13:44:11 | 51.18 | 50.08 | 19 | 4.94 | 0.39 | 1.1 |
| 4/26/2015 | 13:44:14 | 51.51 | 50.41 | 143 | 3.42 | 0.38 | 7.8 |
| 4/26/2015 | 13:44:15 | 51.84 | 50.74 | 168 | 3.60 | 0.38 | 9.2 |
| 4/26/2015 | 13:44:19 | 52.17 | 51.07 | 143 | 3.55 | 0.39 | 7.8 |
| 4/26/2015 | 13:44:24 | 52.49 | 51.39 | 69 | 3.64 | 0.39 | 3.8 |
| 4/26/2015 | 13:44:29 | 52.82 | 51.72 | 65 | 3.66 | 0.39 | 3.5 |
| 4/26/2015 | 13:44:34 | 53.15 | 52.05 | 82 | 4.05 | 0.40 | 4.5 |
| 4/26/2015 | 13:44:43 | 53.48 | 52.38 | 49 | 3.26 | 0.39 | 2.7 |
| 4/26/2015 | 13:44:51 | 53.79 | 52.69 | 49 | 3.07 | 0.39 | 2.7 |

## H56 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:41:39

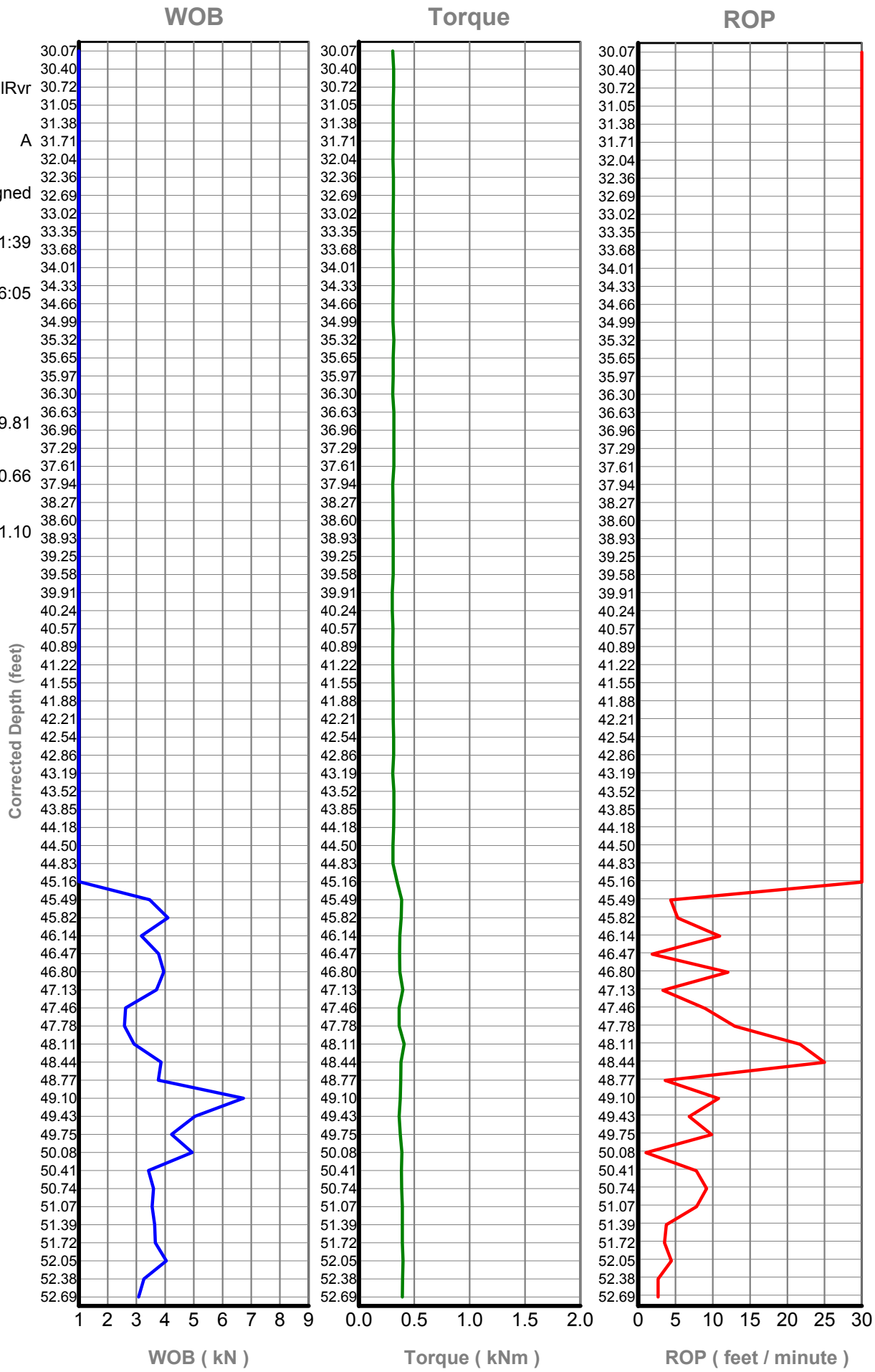
**End Date:**
4/26/2015 13:46:05

**Operator Note:**
'1.1 1.1 B Auto Complete'

**Northing:**
366,149.81

**Easting:**
249,800.66

**Tide (feet):**
1.10



## Hole: H57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:40:53 | 31.17 | 30.07 | 646 | 1.76 | 0.28 | 35.3 |
| 4/26/2015 13:40:54 | 31.50 | 30.40 | 643 | 1.75 | 0.27 | 35.2 |
| 4/26/2015 13:40:54 | 31.82 | 30.72 | 646 | 1.76 | 0.28 | 35.3 |
| 4/26/2015 13:40:55 | 32.15 | 31.05 | 642 | 1.78 | 0.28 | 35.1 |
| 4/26/2015 13:40:56 | 32.48 | 31.38 | 638 | 1.74 | 0.28 | 34.9 |
| 4/26/2015 13:40:56 | 32.81 | 31.71 | 638 | 1.76 | 0.28 | 34.9 |
| 4/26/2015 13:40:57 | 33.14 | 32.04 | 642 | 1.74 | 0.28 | 35.1 |
| 4/26/2015 13:40:57 | 33.46 | 32.36 | 634 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 13:40:58 | 33.79 | 32.69 | 638 | 1.74 | 0.28 | 34.9 |
| 4/26/2015 13:40:59 | 34.12 | 33.02 | 635 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 13:40:59 | 34.45 | 33.35 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:41:00 | 34.78 | 33.68 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:41:00 | 35.11 | 34.01 | 633 | 1.76 | 0.28 | 34.6 |
| 4/26/2015 13:41:01 | 35.43 | 34.33 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:41:01 | 35.76 | 34.66 | 636 | 1.77 | 0.28 | 34.8 |
| 4/26/2015 13:41:02 | 36.09 | 34.99 | 626 | 1.76 | 0.28 | 34.2 |
| 4/26/2015 13:41:02 | 36.42 | 35.32 | 626 | 1.74 | 0.28 | 34.2 |
| 4/26/2015 13:41:03 | 36.75 | 35.65 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:41:04 | 37.07 | 35.97 | 622 | 1.75 | 0.28 | 34.0 |
| 4/26/2015 13:41:04 | 37.40 | 36.30 | 622 | 1.74 | 0.28 | 34.0 |
| 4/26/2015 13:41:05 | 37.73 | 36.63 | 631 | 1.76 | 0.28 | 34.5 |
| 4/26/2015 13:41:05 | 38.06 | 36.96 | 638 | 1.77 | 0.27 | 34.9 |
| 4/26/2015 13:41:06 | 38.39 | 37.29 | 632 | 1.77 | 0.28 | 34.6 |
| 4/26/2015 13:41:06 | 38.71 | 37.61 | 619 | 1.76 | 0.28 | 33.9 |
| 4/26/2015 13:41:07 | 39.04 | 37.94 | 627 | 1.76 | 0.28 | 34.3 |
| 4/26/2015 13:41:07 | 39.37 | 38.27 | 615 | 1.75 | 0.28 | 33.6 |
| 4/26/2015 13:41:08 | 39.70 | 38.60 | 615 | 1.76 | 0.28 | 33.6 |
| 4/26/2015 13:41:09 | 40.03 | 38.93 | 627 | 1.76 | 0.28 | 34.3 |
| 4/26/2015 13:41:09 | 40.35 | 39.25 | 614 | 1.74 | 0.28 | 33.6 |
| 4/26/2015 13:41:09 | 40.68 | 39.58 | 614 | 1.74 | 0.28 | 33.6 |
| 4/26/2015 13:41:11 | 41.01 | 39.91 | 631 | 1.77 | 0.28 | 34.5 |
| 4/26/2015 13:41:11 | 41.34 | 40.24 | 634 | 1.76 | 0.28 | 34.7 |
| 4/26/2015 13:41:12 | 41.67 | 40.57 | 627 | 1.74 | 0.28 | 34.3 |
| 4/26/2015 13:41:12 | 41.99 | 40.89 | 639 | 1.76 | 0.29 | 35.0 |
| 4/26/2015 13:41:13 | 42.32 | 41.22 | 630 | 1.79 | 0.29 | 34.5 |
| 4/26/2015 13:41:13 | 42.65 | 41.55 | 630 | 1.75 | 0.28 | 34.5 |
| 4/26/2015 13:41:14 | 42.98 | 41.88 | 633 | 1.75 | 0.29 | 34.6 |
| 4/26/2015 13:41:14 | 43.31 | 42.21 | 633 | 1.76 | 0.28 | 34.6 |
| 4/26/2015 13:41:15 | 43.64 | 42.54 | 630 | 1.76 | 0.28 | 34.5 |
| 4/26/2015 13:41:15 | 43.96 | 42.86 | 633 | 1.75 | 0.28 | 34.6 |
| 4/26/2015 13:41:16 | 44.29 | 43.19 | 634 | 1.74 | 0.28 | 34.7 |
| 4/26/2015 13:41:17 | 44.62 | 43.52 | 620 | 1.76 | 0.28 | 33.9 |
| 4/26/2015 13:41:17 | 44.95 | 43.85 | 610 | 1.76 | 0.28 | 33.3 |
| 4/26/2015 13:41:18 | 45.28 | 44.18 | 610 | 1.74 | 0.28 | 33.3 |
| 4/26/2015 13:41:18 | 45.60 | 44.50 | 608 | 1.78 | 0.28 | 33.2 |
| 4/26/2015 13:41:19 | 45.93 | 44.83 | 608 | 1.76 | 0.28 | 33.2 |
| 4/26/2015 13:41:36 | 46.26 | 45.16 | 0 | 1.73 | 1.44 | 0.0 |
| 4/26/2015 13:41:37 | 46.59 | 45.49 | 73 | 1.71 | 1.08 | 4.0 |
| 4/26/2015 13:41:39 | 46.92 | 45.82 | 181 | 1.72 | 1.08 | 9.9 |
| 4/26/2015 13:41:41 | 47.24 | 46.14 | 234 | 1.75 | 1.12 | 12.8 |
| 4/26/2015 13:42:13 | 47.57 | 46.47 | 93 | 1.76 | 1.09 | 5.1 |
| 4/26/2015 13:42:16 | 47.90 | 46.80 | 98 | 1.77 | 1.13 | 5.4 |
| 4/26/2015 13:42:18 | 48.23 | 47.13 | 150 | 1.74 | 1.16 | 8.2 |
| 4/26/2015 13:42:22 | 48.56 | 47.46 | 117 | 1.74 | 1.09 | 6.4 |
| 4/26/2015 13:42:24 | 48.88 | 47.78 | 147 | 1.74 | 1.03 | 8.0 |
| 4/26/2015 13:42:25 | 49.21 | 48.11 | 212 | 1.73 | 1.00 | 11.6 |
| 4/26/2015 13:43:17 | 49.54 | 48.44 | 46 | 1.76 | 1.06 | 2.5 |
| 4/26/2015 13:43:23 | 49.87 | 48.77 | 52 | 1.76 | 1.07 | 2.8 |
| 4/26/2015 13:43:32 | 50.20 | 49.10 | 38 | 1.79 | 1.07 | 2.1 |
| 4/26/2015 13:43:40 | 50.53 | 49.43 | 41 | 1.76 | 1.06 | 2.3 |
| 4/26/2015 13:43:45 | 50.74 | 49.64 | 39 | 1.76 | 1.20 | 2.1 |

## H57 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:39:30

**End Date:**
4/26/2015 13:45:01

**Operator Note:**
'1.1 1.1 C Auto Complete'

**Northing:**
366,195.69

**Easting:**
249,859.03

**Tide (feet):**
1.10



## Hole: H58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:37:47 | 31.82 | 30.02 | 1,092 | 0.31 | 0.31 | 59.7 |
| 4/26/2015 12:37:48 | 32.15 | 30.35 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:48 | 32.48 | 30.68 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:48 | 32.81 | 31.01 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:49 | 33.14 | 31.34 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:49 | 33.46 | 31.66 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:49 | 33.79 | 31.99 | 1,076 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 12:37:50 | 34.12 | 32.32 | 1,076 | 0.31 | 0.31 | 58.9 |
| 4/26/2015 12:37:50 | 34.45 | 32.65 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:51 | 34.78 | 32.98 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:51 | 35.11 | 33.31 | 1,070 | 0.31 | 0.31 | 58.5 |
| 4/26/2015 12:37:51 | 35.43 | 33.63 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/26/2015 12:37:52 | 35.76 | 33.96 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 12:37:52 | 36.09 | 34.29 | 1,073 | 0.31 | 0.31 | 58.7 |
| 4/26/2015 12:37:52 | 36.42 | 34.62 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 12:37:53 | 36.75 | 34.95 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:37:53 | 37.07 | 35.27 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:37:53 | 37.40 | 35.60 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:37:54 | 37.73 | 35.93 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:37:54 | 38.06 | 36.26 | 1,073 | 0.31 | 0.32 | 58.7 |
| 4/26/2015 12:37:54 | 38.39 | 36.59 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:37:55 | 38.71 | 36.91 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:37:55 | 39.04 | 37.24 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/26/2015 12:37:55 | 39.37 | 37.57 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 12:37:56 | 39.70 | 37.90 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 12:37:56 | 40.03 | 38.23 | 1,045 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:37:56 | 40.35 | 38.55 | 1,045 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:37:57 | 40.68 | 38.88 | 1,045 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:37:57 | 41.01 | 39.21 | 1,060 | 0.31 | 0.31 | 57.9 |
| 4/26/2015 12:37:57 | 41.34 | 39.54 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:37:58 | 41.67 | 39.87 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 12:37:58 | 41.99 | 40.19 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 12:37:58 | 42.32 | 40.52 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 12:37:58 | 42.65 | 40.85 | 1,066 | 0.31 | 0.32 | 58.3 |
| 4/26/2015 12:37:59 | 42.98 | 41.18 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 12:37:59 | 43.31 | 41.51 | 1,057 | 0.31 | 0.31 | 57.8 |
| 4/26/2015 12:37:59 | 43.64 | 41.84 | 1,072 | 0.31 | 0.31 | 58.6 |
| 4/26/2015 12:38:00 | 43.96 | 42.16 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/26/2015 12:38:00 | 44.29 | 42.49 | 1,063 | 0.31 | 0.31 | 58.1 |
| 4/26/2015 12:38:00 | 44.62 | 42.82 | 1,084 | 0.31 | 0.31 | 59.3 |
| 4/26/2015 12:38:01 | 44.95 | 43.15 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/26/2015 12:38:02 | 45.28 | 43.48 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/26/2015 12:38:02 | 45.60 | 43.80 | 1,066 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 12:38:02 | 45.93 | 44.13 | 1,066 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 12:38:02 | 46.26 | 44.46 | 1,075 | 0.31 | 0.32 | 58.8 |
| 4/26/2015 12:38:03 | 46.59 | 44.79 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 12:38:03 | 46.92 | 45.12 | 1,067 | 0.31 | 0.31 | 58.3 |
| 4/26/2015 12:38:03 | 47.24 | 45.44 | 1,060 | 0.31 | 0.31 | 58.0 |
| 4/26/2015 12:38:04 | 47.57 | 45.77 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:38:04 | 47.90 | 46.10 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 12:38:04 | 48.23 | 46.43 | 1,067 | 0.28 | 0.34 | 58.3 |
| 4/26/2015 12:38:09 | 48.56 | 46.76 | 126 | 5.04 | 0.38 | 6.9 |
| 4/26/2015 12:38:12 | 48.88 | 47.08 | 198 | 3.55 | 0.37 | 10.8 |
| 4/26/2015 12:38:13 | 49.21 | 47.41 | 181 | 4.15 | 0.37 | 9.9 |
| 4/26/2015 12:38:18 | 49.54 | 47.74 | 0 | 2.62 | 0.34 | 0.0 |
| 4/26/2015 12:38:18 | 49.87 | 48.07 | 132 | 4.40 | 0.38 | 7.2 |
| 4/26/2015 12:38:23 | 50.20 | 48.40 | 0 | 4.91 | 0.37 | 0.0 |
| 4/26/2015 12:38:27 | 50.53 | 48.73 | 14 | 4.79 | 0.37 | 0.8 |
| 4/26/2015 12:38:28 | 50.85 | 49.05 | 150 | 3.35 | 0.39 | 8.2 |
| 4/26/2015 12:38:40 | 51.18 | 49.38 | 55 | 3.43 | 0.40 | 3.0 |
| 4/26/2015 12:38:48 | 51.51 | 49.71 | 41 | 3.18 | 0.40 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 12:38:56 | 51.84 | 50.04 | 45 | 3.62 | 0.40 | 2.4 |
| 4/26/2015 | 12:39:04 | 52.17 | 50.37 | 52 | 2.95 | 0.40 | 2.8 |

## H58 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:36:13

**End Date:**
4/26/2015 12:40:02

**Operator Note:**
'1.8 2.0 b Auto Complete'

**Northing:**
366,254.58

**Easting:**
249,935.73

**Tide (feet):**
1.80



## Hole: H59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:34:22 | 32.15 | 30.25 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 12:34:23 | 32.48 | 30.58 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 12:34:23 | 32.81 | 30.91 | 1,050 | 0.30 | 0.32 | 57.4 |
| 4/26/2015 12:34:23 | 33.14 | 31.24 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 12:34:24 | 33.46 | 31.56 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 12:34:24 | 33.79 | 31.89 | 1,049 | 0.30 | 0.32 | 57.4 |
| 4/26/2015 12:34:24 | 34.12 | 32.22 | 1,046 | 0.30 | 0.31 | 57.2 |
| 4/26/2015 12:34:25 | 34.45 | 32.55 | 1,046 | 0.30 | 0.31 | 57.2 |
| 4/26/2015 12:34:25 | 34.78 | 32.88 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 12:34:25 | 35.11 | 33.21 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 12:34:25 | 35.43 | 33.53 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:34:26 | 35.76 | 33.86 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 12:34:26 | 36.09 | 34.19 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/26/2015 12:34:26 | 36.42 | 34.52 | 1,041 | 0.30 | 0.32 | 56.9 |
| 4/26/2015 12:34:27 | 36.75 | 34.85 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:34:27 | 37.07 | 35.17 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:34:27 | 37.40 | 35.50 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 12:34:28 | 37.73 | 35.83 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 12:34:28 | 38.06 | 36.16 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 12:34:28 | 38.39 | 36.49 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/26/2015 12:34:29 | 38.71 | 36.81 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 12:34:29 | 39.04 | 37.14 | 1,039 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 12:34:29 | 39.37 | 37.47 | 1,045 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 12:34:30 | 39.70 | 37.80 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 12:34:30 | 40.03 | 38.13 | 1,054 | 0.31 | 0.31 | 57.6 |
| 4/26/2015 12:34:30 | 40.35 | 38.45 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/26/2015 12:34:31 | 40.68 | 38.78 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/26/2015 12:34:31 | 41.01 | 39.11 | 1,052 | 0.30 | 0.32 | 57.5 |
| 4/26/2015 12:34:31 | 41.34 | 39.44 | 1,049 | 0.31 | 0.31 | 57.4 |
| 4/26/2015 12:34:32 | 41.67 | 39.77 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:34:32 | 41.99 | 40.09 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:34:33 | 42.32 | 40.42 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 12:34:33 | 42.65 | 40.75 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:34:34 | 42.98 | 41.08 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/26/2015 12:34:34 | 43.31 | 41.41 | 1,049 | 0.31 | 0.30 | 57.4 |
| 4/26/2015 12:34:34 | 43.64 | 41.74 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/26/2015 12:34:35 | 43.96 | 42.06 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/26/2015 12:34:35 | 44.29 | 42.39 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:34:35 | 44.62 | 42.72 | 1,052 | 0.31 | 0.32 | 57.5 |
| 4/26/2015 12:34:35 | 44.95 | 43.05 | 1,052 | 0.29 | 0.31 | 57.5 |
| 4/26/2015 12:34:36 | 45.28 | 43.38 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:34:36 | 45.60 | 43.70 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 12:34:36 | 45.93 | 44.03 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/26/2015 12:34:37 | 46.26 | 44.36 | 1,015 | 0.29 | 0.33 | 55.5 |
| 4/26/2015 12:34:42 | 46.59 | 44.69 | 17 | 4.16 | 0.39 | 0.9 |
| 4/26/2015 12:34:50 | 46.92 | 45.02 | 43 | 3.52 | 0.40 | 2.4 |
| 4/26/2015 12:35:00 | 47.24 | 45.34 | 34 | 3.45 | 0.40 | 1.9 |
| 4/26/2015 12:35:09 | 47.57 | 45.67 | 41 | 3.35 | 0.40 | 2.2 |

## H59 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:32:47

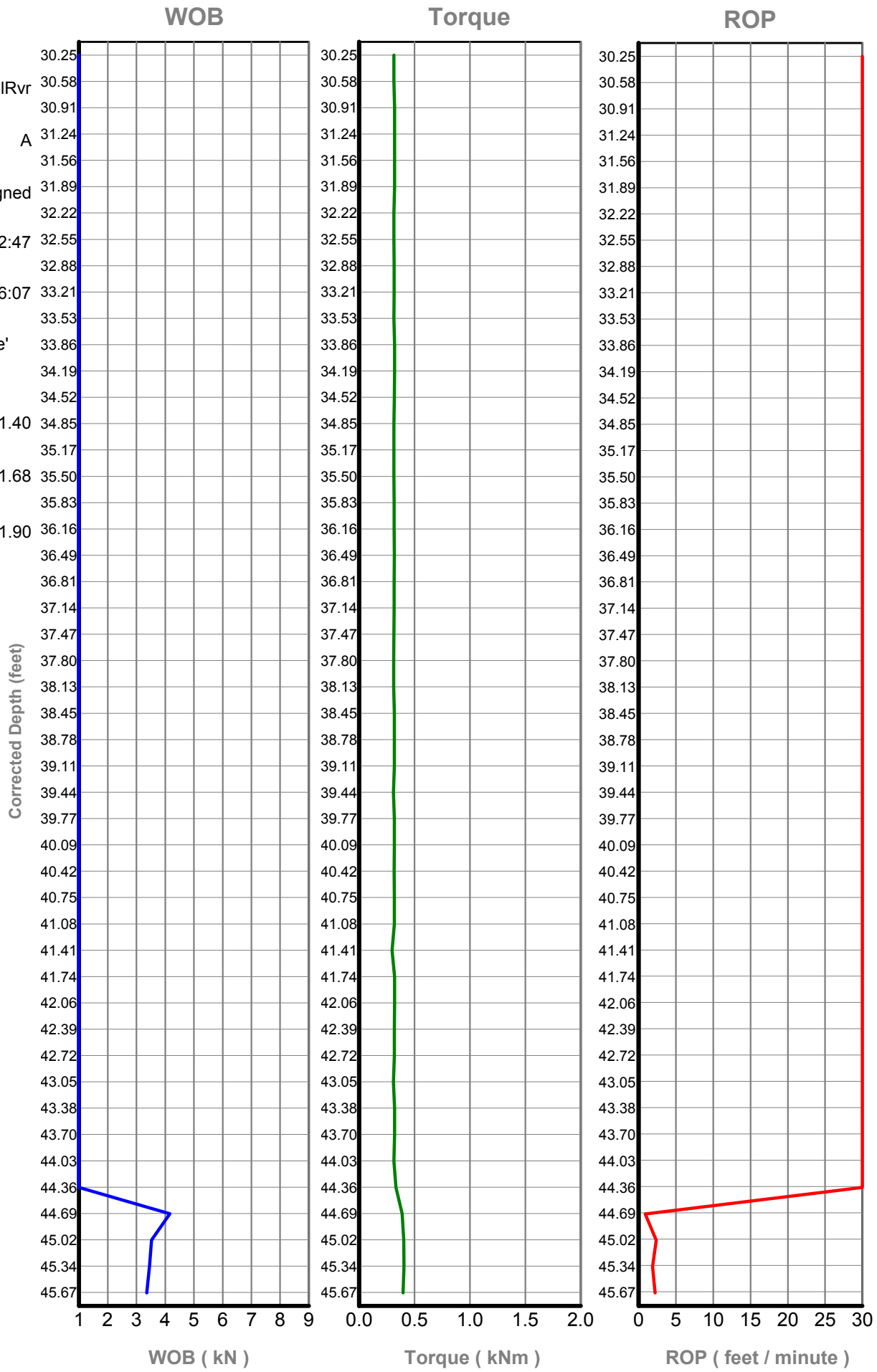
**End Date:**
4/26/2015 12:36:07

**Operator Note:**
'1.9 2.0 b Auto Complete'

**Northing:**
366,291.40

**Easting:**
249,981.68

**Tide (feet):**
1.90



## Hole: H6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:39:48 | 34.78 | 30.28 | 547 | 1.78 | 0.16 | 29.9 |
| 4/27/2015 5:39:48 | 35.11 | 30.61 | 547 | 1.81 | 0.16 | 29.9 |
| 4/27/2015 5:39:49 | 35.43 | 30.93 | 550 | 1.79 | 0.16 | 30.1 |
| 4/27/2015 5:39:50 | 35.76 | 31.26 | 547 | 1.48 | 0.16 | 29.9 |
| 4/27/2015 5:39:50 | 36.09 | 31.59 | 554 | 1.83 | 0.16 | 30.3 |
| 4/27/2015 5:39:51 | 36.42 | 31.92 | 545 | 1.77 | 0.16 | 29.8 |
| 4/27/2015 5:39:51 | 36.75 | 32.25 | 565 | 1.79 | 0.16 | 30.9 |
| 4/27/2015 5:39:52 | 37.07 | 32.57 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 5:39:53 | 37.40 | 32.90 | 555 | 1.77 | 0.16 | 30.3 |
| 4/27/2015 5:39:53 | 37.73 | 33.23 | 561 | 1.76 | 0.16 | 30.7 |
| 4/27/2015 5:39:54 | 38.06 | 33.56 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 5:39:54 | 38.39 | 33.89 | 558 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 5:39:55 | 38.71 | 34.21 | 561 | 1.79 | 0.16 | 30.7 |
| 4/27/2015 5:39:56 | 39.04 | 34.54 | 558 | 1.81 | 0.16 | 30.5 |
| 4/27/2015 5:39:57 | 39.37 | 34.87 | 558 | 1.81 | 0.16 | 30.5 |
| 4/27/2015 5:39:57 | 39.70 | 35.20 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 5:39:58 | 40.03 | 35.53 | 558 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 5:39:59 | 40.35 | 35.85 | 555 | 1.81 | 0.16 | 30.4 |
| 4/27/2015 5:39:59 | 40.68 | 36.18 | 555 | 1.83 | 0.16 | 30.3 |
| 4/27/2015 5:40:00 | 41.01 | 36.51 | 558 | 2.04 | 0.16 | 30.5 |
| 4/27/2015 5:40:00 | 41.34 | 36.84 | 558 | 1.81 | 0.16 | 30.5 |
| 4/27/2015 5:40:01 | 41.67 | 37.17 | 555 | 1.81 | 0.16 | 30.3 |
| 4/27/2015 5:40:02 | 41.99 | 37.49 | 561 | 1.79 | 0.16 | 30.7 |
| 4/27/2015 5:40:02 | 42.32 | 37.82 | 558 | 1.78 | 0.16 | 30.5 |
| 4/27/2015 5:40:03 | 42.65 | 38.15 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 5:40:04 | 42.98 | 38.48 | 558 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 5:40:04 | 43.31 | 38.81 | 549 | 1.77 | 0.16 | 30.0 |
| 4/27/2015 5:40:05 | 43.64 | 39.14 | 552 | 1.76 | 0.16 | 30.2 |
| 4/27/2015 5:40:05 | 43.96 | 39.46 | 555 | 1.78 | 0.16 | 30.4 |
| 4/27/2015 5:40:06 | 44.29 | 39.79 | 555 | 1.81 | 0.16 | 30.3 |
| 4/27/2015 5:40:07 | 44.62 | 40.12 | 558 | 1.77 | 0.16 | 30.5 |
| 4/27/2015 5:40:08 | 44.95 | 40.45 | 552 | 1.74 | 0.14 | 30.2 |
| 4/27/2015 5:40:23 | 45.28 | 40.78 | 0 | 1.78 | 1.16 | 0.0 |
| 4/27/2015 5:40:25 | 45.60 | 41.10 | 134 | 1.81 | 1.16 | 7.3 |
| 4/27/2015 5:40:26 | 45.93 | 41.43 | 170 | 1.82 | 1.44 | 9.3 |
| 4/27/2015 5:40:46 | 46.26 | 41.76 | 52 | 1.82 | 1.17 | 2.8 |
| 4/27/2015 5:40:50 | 46.59 | 42.09 | 110 | 1.81 | 1.28 | 6.0 |
| 4/27/2015 5:40:53 | 46.92 | 42.42 | 106 | 1.83 | 1.13 | 5.8 |
| 4/27/2015 5:41:01 | 47.24 | 42.74 | 47 | 1.82 | 1.15 | 2.6 |
| 4/27/2015 5:41:09 | 47.57 | 43.07 | 51 | 1.85 | 1.12 | 2.8 |
| 4/27/2015 5:41:13 | 47.90 | 43.40 | 60 | 1.81 | 1.13 | 3.3 |
| 4/27/2015 5:41:28 | 48.23 | 43.73 | 27 | 1.82 | 1.09 | 1.4 |
| 4/27/2015 5:41:31 | 48.30 | 43.80 | 26 | 1.81 | 1.20 | 1.4 |

## H6 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 5:36:49

**End Date:**
4/27/2015 5:46:22

**Operator Note:**
'4.5 4.5 c Auto Complete'

**Northing:**
365,833.83

**Easting:**
249,286.83

**Tide (feet):**
4.50



## Hole: H60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 12:36:33 | 31.82 | 30.02 | 627 | 1.78 | 0.29 | 34.3 |
| 4/26/2015 12:36:34 | 32.15 | 30.35 | 626 | 1.77 | 0.29 | 34.3 |
| 4/26/2015 12:36:34 | 32.48 | 30.68 | 630 | 1.77 | 0.29 | 34.5 |
| 4/26/2015 12:36:35 | 32.81 | 31.01 | 621 | 1.77 | 0.29 | 33.9 |
| 4/26/2015 12:36:35 | 33.14 | 31.34 | 621 | 1.79 | 0.29 | 33.9 |
| 4/26/2015 12:36:36 | 33.46 | 31.66 | 623 | 1.79 | 0.30 | 34.0 |
| 4/26/2015 12:36:36 | 33.79 | 31.99 | 625 | 1.79 | 0.30 | 34.2 |
| 4/26/2015 12:36:38 | 34.12 | 32.32 | 616 | 1.76 | 0.30 | 33.7 |
| 4/26/2015 12:36:38 | 34.45 | 32.65 | 630 | 1.78 | 0.30 | 34.4 |
| 4/26/2015 12:36:39 | 34.78 | 32.98 | 630 | 1.76 | 0.30 | 34.5 |
| 4/26/2015 12:36:39 | 35.11 | 33.31 | 625 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 12:36:40 | 35.43 | 33.63 | 625 | 1.79 | 0.29 | 34.2 |
| 4/26/2015 12:36:40 | 35.76 | 33.96 | 625 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 12:36:41 | 36.09 | 34.29 | 625 | 1.77 | 0.29 | 34.2 |
| 4/26/2015 12:36:41 | 36.42 | 34.62 | 622 | 1.76 | 0.29 | 34.0 |
| 4/26/2015 12:36:42 | 36.75 | 34.95 | 625 | 1.76 | 0.29 | 34.2 |
| 4/26/2015 12:36:42 | 37.07 | 35.27 | 624 | 1.76 | 0.29 | 34.1 |
| 4/26/2015 12:36:43 | 37.40 | 35.60 | 624 | 1.77 | 0.29 | 34.1 |
| 4/26/2015 12:36:44 | 37.73 | 35.93 | 627 | 1.76 | 0.29 | 34.3 |
| 4/26/2015 12:36:44 | 38.06 | 36.26 | 627 | 1.79 | 0.29 | 34.3 |
| 4/26/2015 12:36:45 | 38.39 | 36.59 | 628 | 1.77 | 0.29 | 34.4 |
| 4/26/2015 12:36:45 | 38.71 | 36.91 | 624 | 1.77 | 0.29 | 34.1 |
| 4/26/2015 12:36:46 | 39.04 | 37.24 | 622 | 1.75 | 0.29 | 34.0 |
| 4/26/2015 12:36:46 | 39.37 | 37.57 | 618 | 1.76 | 0.29 | 33.8 |
| 4/26/2015 12:36:47 | 39.70 | 37.90 | 622 | 1.75 | 0.29 | 34.0 |
| 4/26/2015 12:36:48 | 40.03 | 38.23 | 618 | 1.76 | 0.29 | 33.8 |
| 4/26/2015 12:36:48 | 40.35 | 38.55 | 608 | 1.79 | 0.25 | 33.2 |
| 4/26/2015 12:36:49 | 40.68 | 38.88 | 622 | 1.76 | 0.29 | 34.0 |
| 4/26/2015 12:36:50 | 41.01 | 39.21 | 619 | 1.76 | 0.28 | 33.9 |
| 4/26/2015 12:36:50 | 41.34 | 39.54 | 619 | 1.77 | 0.28 | 33.8 |
| 4/26/2015 12:36:51 | 41.67 | 39.87 | 619 | 1.77 | 0.28 | 33.9 |
| 4/26/2015 12:36:51 | 41.99 | 40.19 | 626 | 1.78 | 0.29 | 34.2 |
| 4/26/2015 12:36:52 | 42.32 | 40.52 | 622 | 1.76 | 0.29 | 34.0 |
| 4/26/2015 12:36:52 | 42.65 | 40.85 | 619 | 1.79 | 0.28 | 33.9 |
| 4/26/2015 12:36:53 | 42.98 | 41.18 | 615 | 1.76 | 0.28 | 33.6 |
| 4/26/2015 12:36:53 | 43.31 | 41.51 | 619 | 1.77 | 0.28 | 33.9 |
| 4/26/2015 12:36:54 | 43.64 | 41.84 | 623 | 1.77 | 0.28 | 34.1 |
| 4/26/2015 12:36:55 | 43.96 | 42.16 | 619 | 1.77 | 0.28 | 33.8 |
| 4/26/2015 12:36:55 | 44.29 | 42.49 | 622 | 1.77 | 0.28 | 34.0 |
| 4/26/2015 12:36:56 | 44.62 | 42.82 | 619 | 1.77 | 0.28 | 33.8 |
| 4/26/2015 12:36:56 | 44.95 | 43.15 | 619 | 1.78 | 0.28 | 33.8 |
| 4/26/2015 12:36:57 | 45.28 | 43.48 | 615 | 1.78 | 0.29 | 33.6 |
| 4/26/2015 12:37:34 | 45.60 | 43.80 | 26 | 1.76 | 1.07 | 1.4 |
| 4/26/2015 12:37:37 | 45.93 | 44.13 | 110 | 1.79 | 1.15 | 6.0 |
| 4/26/2015 12:37:41 | 46.26 | 44.46 | 97 | 1.76 | 1.13 | 5.3 |
| 4/26/2015 12:37:44 | 46.59 | 44.79 | 113 | 1.77 | 1.08 | 6.2 |
| 4/26/2015 12:37:47 | 46.92 | 45.12 | 116 | 1.78 | 1.15 | 6.3 |
| 4/26/2015 12:37:50 | 47.24 | 45.44 | 113 | 1.76 | 1.08 | 6.2 |
| 4/26/2015 12:37:54 | 47.57 | 45.77 | 98 | 1.77 | 1.11 | 5.3 |
| 4/26/2015 12:37:57 | 47.90 | 46.10 | 102 | 1.76 | 1.12 | 5.6 |
| 4/26/2015 12:38:01 | 48.23 | 46.43 | 110 | 1.77 | 1.12 | 6.0 |
| 4/26/2015 12:38:04 | 48.56 | 46.76 | 104 | 1.78 | 1.16 | 5.7 |
| 4/26/2015 12:38:07 | 48.88 | 47.08 | 106 | 1.76 | 1.06 | 5.8 |
| 4/26/2015 12:38:10 | 49.21 | 47.41 | 127 | 1.70 | 1.07 | 6.9 |
| 4/26/2015 12:38:12 | 49.54 | 47.74 | 149 | 1.77 | 1.10 | 8.2 |
| 4/26/2015 12:38:16 | 49.87 | 48.07 | 76 | 1.72 | 0.98 | 4.2 |
| 4/26/2015 12:38:18 | 50.20 | 48.40 | 210 | 1.74 | 0.92 | 11.5 |
| 4/26/2015 12:38:19 | 50.53 | 48.73 | 237 | 1.72 | 0.97 | 12.9 |
| 4/26/2015 12:38:22 | 50.85 | 49.05 | 221 | 1.76 | 1.12 | 12.1 |
| 4/26/2015 12:38:26 | 51.18 | 49.38 | 82 | 1.76 | 1.10 | 4.5 |
| 4/26/2015 12:38:31 | 51.51 | 49.71 | 67 | 1.76 | 1.15 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 12:38:36 | 51.84 | 50.04 | 78 | 1.78 | 1.20 | 4.3 |
| 4/26/2015 | 12:38:42 | 52.17 | 50.37 | 61 | 1.77 | 1.14 | 3.4 |
| 4/26/2015 | 12:38:43 | 52.23 | 50.43 | 61 | 1.77 | 1.19 | 3.3 |

## H60 - Summary

**Pattern Number:**
AreaH_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 12:35:07

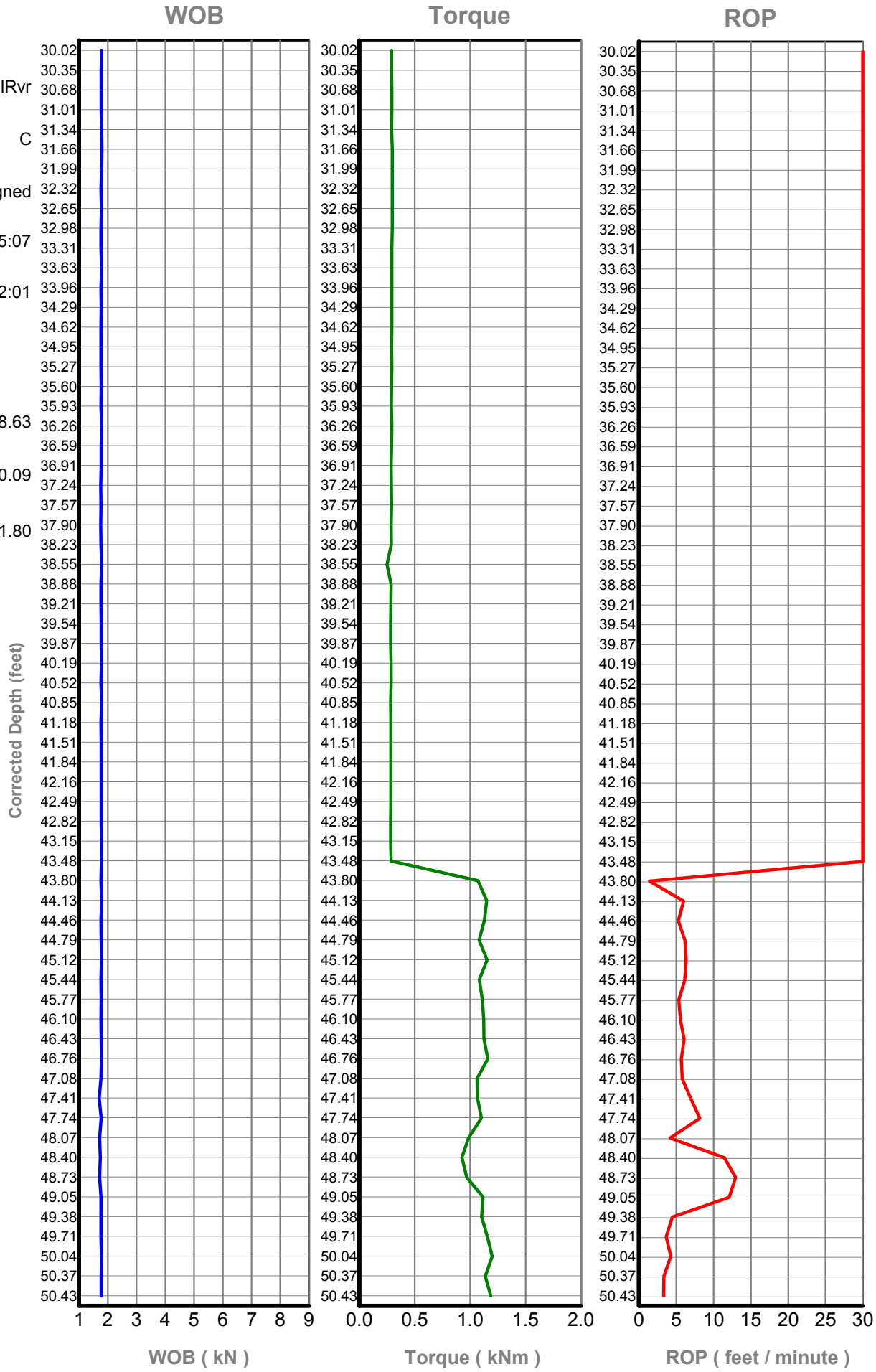
**End Date:**
4/26/2015 12:42:01

**Operator Note:**
'1.8 2.0 C Auto Complete'

**Northing:**
366,338.63

**Easting:**
250,040.09

**Tide (feet):**
1.80



## Hole: H61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 0:38:09 | 31.50 | 30.20 | 919 | 0.75 | 0.33 | 50.2 |
| 4/26/2015 0:38:09 | 31.82 | 30.52 | 919 | 0.70 | 0.32 | 50.2 |
| 4/26/2015 0:38:10 | 32.15 | 30.85 | 919 | 0.70 | 0.32 | 50.2 |
| 4/26/2015 0:38:10 | 32.48 | 31.18 | 956 | 0.74 | 0.33 | 52.3 |
| 4/26/2015 0:38:10 | 32.81 | 31.51 | 946 | 0.74 | 0.33 | 51.7 |
| 4/26/2015 0:38:11 | 33.14 | 31.84 | 946 | 0.74 | 0.33 | 51.7 |
| 4/26/2015 0:38:11 | 33.46 | 32.16 | 941 | 0.73 | 0.33 | 51.4 |
| 4/26/2015 0:38:11 | 33.79 | 32.49 | 941 | 0.75 | 0.33 | 51.4 |
| 4/26/2015 0:38:12 | 34.12 | 32.82 | 958 | 0.73 | 0.33 | 52.4 |
| 4/26/2015 0:38:12 | 34.45 | 33.15 | 958 | 0.73 | 0.33 | 52.4 |
| 4/26/2015 0:38:12 | 34.78 | 33.48 | 969 | 0.75 | 0.33 | 53.0 |
| 4/26/2015 0:38:13 | 35.11 | 33.81 | 949 | 0.75 | 0.33 | 51.9 |
| 4/26/2015 0:38:13 | 35.43 | 34.13 | 946 | 0.75 | 0.33 | 51.8 |
| 4/26/2015 0:38:14 | 35.76 | 34.46 | 946 | 0.75 | 0.33 | 51.8 |
| 4/26/2015 0:38:14 | 36.09 | 34.79 | 957 | 0.72 | 0.32 | 52.3 |
| 4/26/2015 0:38:15 | 36.42 | 35.12 | 945 | 0.73 | 0.33 | 51.7 |
| 4/26/2015 0:38:15 | 36.75 | 35.45 | 945 | 0.73 | 0.33 | 51.7 |
| 4/26/2015 0:38:15 | 37.07 | 35.77 | 940 | 0.74 | 0.33 | 51.4 |
| 4/26/2015 0:38:16 | 37.40 | 36.10 | 924 | 0.73 | 0.33 | 50.5 |
| 4/26/2015 0:38:16 | 37.73 | 36.43 | 930 | 0.75 | 0.33 | 50.9 |
| 4/26/2015 0:38:17 | 38.06 | 36.76 | 930 | 0.75 | 0.33 | 50.9 |
| 4/26/2015 0:38:17 | 38.39 | 37.09 | 930 | 0.21 | 0.33 | 50.9 |
| 4/26/2015 0:38:17 | 38.71 | 37.41 | 930 | 0.20 | 0.33 | 50.9 |
| 4/26/2015 0:38:18 | 39.04 | 37.74 | 930 | 0.20 | 0.33 | 50.9 |
| 4/26/2015 0:38:18 | 39.37 | 38.07 | 943 | 0.55 | 0.33 | 51.6 |
| 4/26/2015 0:38:18 | 39.70 | 38.40 | 955 | 1.03 | 0.32 | 52.2 |
| 4/26/2015 0:38:19 | 40.03 | 38.73 | 953 | 0.19 | 0.33 | 52.1 |
| 4/26/2015 0:38:19 | 40.35 | 39.05 | 953 | 0.19 | 0.33 | 52.1 |
| 4/26/2015 0:38:19 | 40.68 | 39.38 | 950 | 0.20 | 0.33 | 52.0 |
| 4/26/2015 0:38:20 | 41.01 | 39.71 | 950 | 0.20 | 0.33 | 52.0 |
| 4/26/2015 0:38:20 | 41.34 | 40.04 | 953 | 0.20 | 0.33 | 52.1 |
| 4/26/2015 0:38:21 | 41.67 | 40.37 | 953 | 0.20 | 0.33 | 52.1 |
| 4/26/2015 0:38:30 | 41.99 | 40.69 | 29 | 0.19 | 0.33 | 1.6 |
| 4/26/2015 0:38:30 | 42.32 | 41.02 | 212 | 0.20 | 0.33 | 11.6 |
| 4/26/2015 0:38:31 | 42.65 | 41.35 | 212 | 0.20 | 0.33 | 11.6 |
| 4/26/2015 0:38:31 | 42.98 | 41.68 | 392 | 0.22 | 0.33 | 21.4 |
| 4/26/2015 0:38:31 | 43.31 | 42.01 | 577 | 0.21 | 0.33 | 31.6 |
| 4/26/2015 0:38:32 | 43.64 | 42.34 | 760 | 0.21 | 0.33 | 41.6 |
| 4/26/2015 0:38:32 | 43.96 | 42.66 | 760 | 0.21 | 0.33 | 41.6 |
| 4/26/2015 0:38:32 | 44.29 | 42.99 | 916 | 0.16 | 0.33 | 50.1 |
| 4/26/2015 0:38:33 | 44.62 | 43.32 | 922 | 0.20 | 0.33 | 50.4 |
| 4/26/2015 0:38:33 | 44.95 | 43.65 | 922 | 0.20 | 0.33 | 50.4 |
| 4/26/2015 0:38:33 | 45.28 | 43.98 | 920 | 0.22 | 0.35 | 50.3 |
| 4/26/2015 0:38:58 | 45.60 | 44.30 | 0 | 3.14 | 0.36 | 0.0 |
| 4/26/2015 0:38:59 | 45.93 | 44.63 | 92 | 4.04 | 0.39 | 5.0 |
| 4/26/2015 0:39:02 | 46.26 | 44.96 | 132 | 4.39 | 0.40 | 7.2 |
| 4/26/2015 0:39:18 | 46.59 | 45.29 | 40 | 4.64 | 0.39 | 2.2 |
| 4/26/2015 0:39:20 | 46.92 | 45.62 | 153 | 6.23 | 0.38 | 8.4 |
| 4/26/2015 0:39:21 | 47.24 | 45.94 | 199 | 4.89 | 0.39 | 10.9 |
| 4/26/2015 0:39:22 | 47.57 | 46.27 | 295 | 3.97 | 0.38 | 16.1 |
| 4/26/2015 0:40:04 | 47.90 | 46.60 | 26 | 5.33 | 0.38 | 1.4 |
| 4/26/2015 0:40:06 | 48.23 | 46.93 | 144 | 4.36 | 0.39 | 7.9 |
| 4/26/2015 0:40:08 | 48.56 | 47.26 | 163 | 5.70 | 0.39 | 8.9 |
| 4/26/2015 0:40:16 | 48.88 | 47.58 | 104 | 3.73 | 0.38 | 5.7 |
| 4/26/2015 0:40:18 | 49.21 | 47.91 | 138 | 3.07 | 0.36 | 7.6 |
| 4/26/2015 0:40:19 | 49.54 | 48.24 | 197 | 3.10 | 0.38 | 10.8 |
| 4/26/2015 0:40:31 | 49.87 | 48.57 | 93 | 3.52 | 0.38 | 5.1 |
| 4/26/2015 0:40:33 | 50.20 | 48.90 | 150 | 3.15 | 0.39 | 8.2 |
| 4/26/2015 0:40:38 | 50.53 | 49.23 | 29 | 3.28 | 0.39 | 1.6 |
| 4/26/2015 0:40:39 | 50.85 | 49.55 | 168 | 3.25 | 0.39 | 9.2 |
| 4/26/2015 0:40:42 | 51.18 | 49.88 | 190 | 3.31 | 0.39 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 0:40:45 | 51.51 | 50.21 | 108 | 3.28 | 0.40 | 5.9 |
| 4/26/2015 | 0:40:49 | 51.84 | 50.54 | 87 | 3.46 | 0.40 | 4.8 |
| 4/26/2015 | 0:40:53 | 52.17 | 50.87 | 83 | 3.48 | 0.40 | 4.5 |
| 4/26/2015 | 0:40:57 | 52.49 | 51.19 | 98 | 3.93 | 0.40 | 5.4 |
| 4/26/2015 | 0:41:01 | 52.82 | 51.52 | 83 | 3.35 | 0.40 | 4.6 |
| 4/26/2015 | 0:41:05 | 53.15 | 51.85 | 104 | 3.36 | 0.39 | 5.7 |
| 4/26/2015 | 0:41:07 | 53.48 | 52.18 | 140 | 4.24 | 0.39 | 7.7 |
| 4/26/2015 | 0:41:10 | 53.81 | 52.51 | 132 | 5.00 | 0.40 | 7.2 |
| 4/26/2015 | 0:43:04 | 54.13 | 52.83 | 14 | 3.39 | 0.40 | 0.8 |
| 4/26/2015 | 0:43:08 | 54.46 | 53.16 | 116 | 3.71 | 0.39 | 6.3 |
| 4/26/2015 | 0:43:09 | 54.79 | 53.49 | 197 | 3.33 | 0.38 | 10.8 |
| 4/26/2015 | 0:43:10 | 55.12 | 53.82 | 257 | 4.16 | 0.38 | 14.1 |
| 4/26/2015 | 0:43:13 | 55.45 | 54.15 | 175 | 6.88 | 0.39 | 9.6 |
| 4/26/2015 | 0:43:31 | 55.77 | 54.47 | 61 | 3.52 | 0.40 | 3.3 |
| 4/26/2015 | 0:43:36 | 56.10 | 54.80 | 66 | 2.93 | 0.40 | 3.6 |
| 4/26/2015 | 0:43:42 | 56.43 | 55.13 | 78 | 3.39 | 0.40 | 4.3 |
| 4/26/2015 | 0:43:42 | 56.49 | 55.19 | 81 | 3.88 | 0.41 | 4.4 |

## H61 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 0:35:42

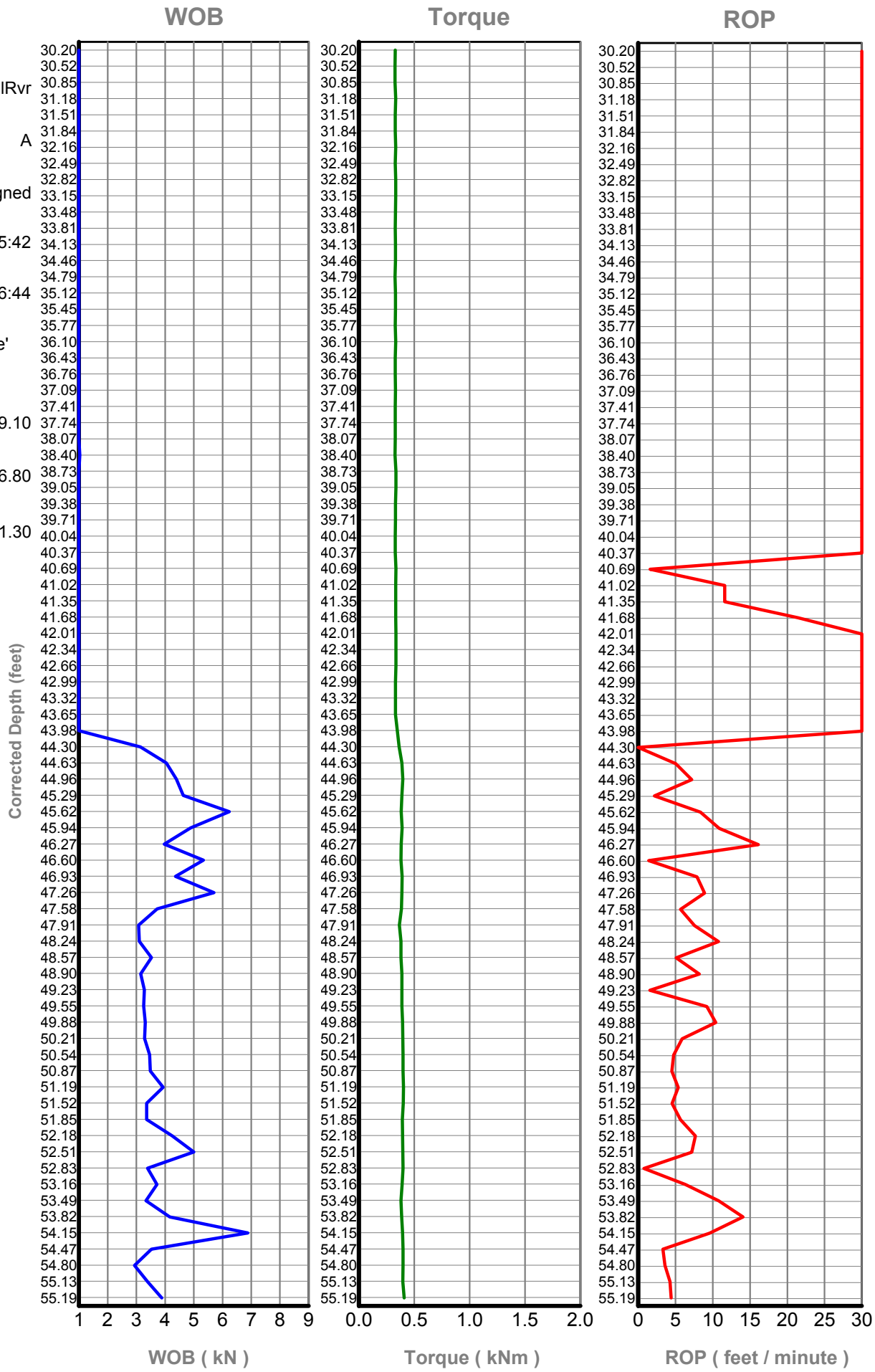
**End Date:**
4/26/2015 0:46:44

**Operator Note:**
'1.3 1.5 b Auto Complete'

**Northing:**
366,379.10

**Easting:**
250,096.80

**Tide (feet):**
1.30



## Hole: H62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 0:51:55 | 31.50 | 30.30 | 971 | 0.20 | 0.32 | 53.1 |
| 4/26/2015 0:51:55 | 31.82 | 30.62 | 974 | 0.21 | 0.32 | 53.3 |
| 4/26/2015 0:51:56 | 32.15 | 30.95 | 980 | 0.20 | 0.31 | 53.6 |
| 4/26/2015 0:51:57 | 32.48 | 31.28 | 980 | 0.20 | 0.31 | 53.6 |
| 4/26/2015 0:51:57 | 32.81 | 31.61 | 977 | 0.20 | 0.32 | 53.4 |
| 4/26/2015 0:51:57 | 33.14 | 31.94 | 989 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:51:58 | 33.46 | 32.26 | 989 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:51:58 | 33.79 | 32.59 | 989 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:51:58 | 34.12 | 32.92 | 989 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:51:59 | 34.45 | 33.25 | 989 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:51:59 | 34.78 | 33.58 | 983 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:51:59 | 35.11 | 33.91 | 992 | 0.19 | 0.32 | 54.2 |
| 4/26/2015 0:52:00 | 35.43 | 34.23 | 980 | 0.20 | 0.32 | 53.6 |
| 4/26/2015 0:52:00 | 35.76 | 34.56 | 980 | 0.20 | 0.32 | 53.6 |
| 4/26/2015 0:52:00 | 36.09 | 34.89 | 980 | 0.20 | 0.32 | 53.6 |
| 4/26/2015 0:52:01 | 36.42 | 35.22 | 974 | 0.20 | 0.32 | 53.3 |
| 4/26/2015 0:52:01 | 36.75 | 35.55 | 974 | 0.20 | 0.32 | 53.3 |
| 4/26/2015 0:52:01 | 37.07 | 35.87 | 977 | 0.20 | 0.32 | 53.4 |
| 4/26/2015 0:52:02 | 37.40 | 36.20 | 977 | 0.20 | 0.32 | 53.4 |
| 4/26/2015 0:52:02 | 37.73 | 36.53 | 969 | 0.20 | 0.32 | 53.0 |
| 4/26/2015 0:52:03 | 38.06 | 36.86 | 969 | 0.20 | 0.32 | 53.0 |
| 4/26/2015 0:52:03 | 38.39 | 37.19 | 972 | 0.20 | 0.32 | 53.2 |
| 4/26/2015 0:52:03 | 38.71 | 37.51 | 990 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:52:04 | 39.04 | 37.84 | 990 | 0.20 | 0.32 | 54.1 |
| 4/26/2015 0:52:04 | 39.37 | 38.17 | 987 | 0.20 | 0.32 | 54.0 |
| 4/26/2015 0:52:04 | 39.70 | 38.50 | 993 | 0.20 | 0.32 | 54.3 |
| 4/26/2015 0:52:05 | 40.03 | 38.83 | 993 | 0.20 | 0.32 | 54.3 |
| 4/26/2015 0:52:05 | 40.35 | 39.15 | 998 | 0.20 | 0.32 | 54.6 |
| 4/26/2015 0:52:05 | 40.68 | 39.48 | 984 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:52:06 | 41.01 | 39.81 | 984 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:52:06 | 41.34 | 40.14 | 984 | 0.20 | 0.32 | 53.8 |
| 4/26/2015 0:52:06 | 41.67 | 40.47 | 977 | 0.20 | 0.32 | 53.4 |
| 4/26/2015 0:52:07 | 41.99 | 40.79 | 982 | 0.20 | 0.32 | 53.7 |
| 4/26/2015 0:52:08 | 42.32 | 41.12 | 982 | 0.20 | 0.32 | 53.7 |
| 4/26/2015 0:52:08 | 42.65 | 41.45 | 976 | 0.20 | 0.34 | 53.4 |
| 4/26/2015 0:52:08 | 42.98 | 41.78 | 988 | 0.20 | 0.32 | 54.0 |
| 4/26/2015 0:52:09 | 43.31 | 42.11 | 988 | 0.20 | 0.32 | 54.0 |
| 4/26/2015 0:52:09 | 43.64 | 42.44 | 996 | 0.20 | 0.32 | 54.5 |
| 4/26/2015 0:52:09 | 43.96 | 42.76 | 983 | 0.19 | 0.33 | 53.7 |
| 4/26/2015 0:52:10 | 44.29 | 43.09 | 965 | 0.18 | 0.38 | 52.8 |
| 4/26/2015 0:52:34 | 44.62 | 43.42 | 20 | 5.10 | 0.41 | 1.1 |
| 4/26/2015 0:52:48 | 44.95 | 43.75 | 21 | 2.77 | 0.38 | 1.1 |
| 4/26/2015 0:52:53 | 45.28 | 44.08 | 4 | 3.41 | 0.42 | 0.2 |
| 4/26/2015 0:52:54 | 45.60 | 44.40 | 139 | 3.70 | 0.39 | 7.6 |
| 4/26/2015 0:52:56 | 45.93 | 44.73 | 249 | 3.69 | 0.41 | 13.6 |
| 4/26/2015 0:52:57 | 46.26 | 45.06 | 251 | 4.89 | 0.39 | 13.8 |
| 4/26/2015 0:52:58 | 46.59 | 45.39 | 304 | 3.43 | 0.37 | 16.6 |
| 4/26/2015 0:52:58 | 46.92 | 45.72 | 347 | 4.87 | 0.37 | 19.0 |
| 4/26/2015 0:53:00 | 47.24 | 46.04 | 439 | 2.84 | 0.37 | 24.0 |
| 4/26/2015 0:53:00 | 47.57 | 46.37 | 462 | 3.53 | 0.37 | 25.3 |
| 4/26/2015 0:53:10 | 47.90 | 46.70 | 37 | 4.89 | 0.39 | 2.0 |
| 4/26/2015 0:53:12 | 48.23 | 47.03 | 167 | 3.69 | 0.39 | 9.1 |
| 4/26/2015 0:53:15 | 48.56 | 47.36 | 131 | 3.84 | 0.40 | 7.2 |
| 4/26/2015 0:53:40 | 48.88 | 47.68 | 0 | 2.78 | 0.32 | 0.0 |
| 4/26/2015 0:53:43 | 49.21 | 48.01 | 74 | 4.39 | 0.37 | 4.1 |
| 4/26/2015 0:54:00 | 49.54 | 48.34 | 38 | 5.93 | 0.40 | 2.1 |
| 4/26/2015 0:54:08 | 49.87 | 48.67 | 72 | 4.50 | 0.38 | 3.9 |
| 4/26/2015 0:54:09 | 50.20 | 49.00 | 218 | 2.80 | 0.37 | 11.9 |
| 4/26/2015 0:54:10 | 50.53 | 49.33 | 283 | 2.76 | 0.37 | 15.5 |
| 4/26/2015 0:54:11 | 50.85 | 49.65 | 350 | 2.69 | 0.39 | 19.1 |
| 4/26/2015 0:54:13 | 51.18 | 49.98 | 321 | 2.94 | 0.38 | 17.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 0:54:15 | 51.51 | 50.31 | 173 | 3.67 | 0.39 | 9.4 |
| 4/26/2015 | 0:54:18 | 51.84 | 50.64 | 104 | 3.79 | 0.39 | 5.7 |
| 4/26/2015 | 0:54:21 | 52.17 | 50.97 | 95 | 3.45 | 0.37 | 5.2 |
| 4/26/2015 | 0:54:23 | 52.49 | 51.29 | 148 | 4.58 | 0.38 | 8.1 |
| 4/26/2015 | 0:55:57 | 52.82 | 51.62 | 68 | 3.01 | 0.40 | 3.7 |
| 4/26/2015 | 0:56:05 | 53.15 | 51.95 | 46 | 3.08 | 0.40 | 2.5 |
| 4/26/2015 | 0:56:19 | 53.48 | 52.28 | 31 | 2.93 | 0.40 | 1.7 |
| 4/26/2015 | 0:56:24 | 53.81 | 52.61 | 74 | 3.49 | 0.39 | 4.1 |
| 4/26/2015 | 0:56:30 | 54.13 | 52.93 | 63 | 3.45 | 0.40 | 3.4 |
| 4/26/2015 | 0:56:36 | 54.46 | 53.26 | 58 | 3.58 | 0.40 | 3.2 |
| 4/26/2015 | 0:56:42 | 54.79 | 53.59 | 56 | 3.37 | 0.40 | 3.1 |
| 4/26/2015 | 0:56:50 | 55.12 | 53.92 | 49 | 3.12 | 0.40 | 2.7 |
| 4/26/2015 | 0:56:53 | 55.32 | 54.12 | 52 | 3.71 | 0.40 | 2.8 |

## H62 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 0:50:10

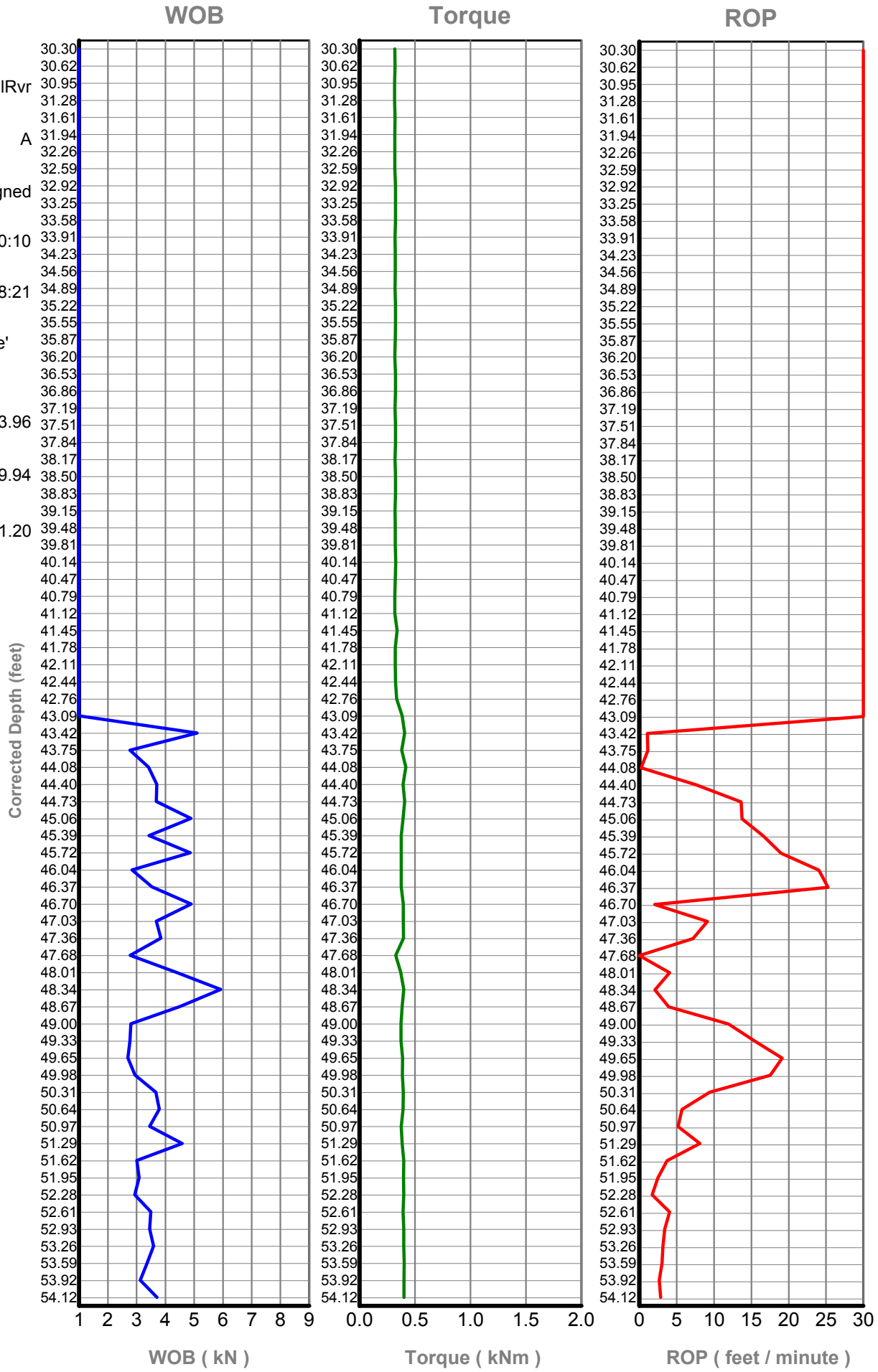
**End Date:**
4/26/2015 0:58:21

**Operator Note:**
'1.2 1.2 b Auto Complete'

**Northing:**
366,423.96

**Easting:**
250,149.94

**Tide (feet):**
1.20



## Hole: H63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 0:40:26 | 31.50 | 30.20 | 558 | 1.80 | 0.16 | 30.5 |
| 4/26/2015 0:40:27 | 31.82 | 30.52 | 568 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 0:40:28 | 32.15 | 30.85 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 0:40:28 | 32.48 | 31.18 | 555 | 1.78 | 0.16 | 30.3 |
| 4/26/2015 0:40:29 | 32.81 | 31.51 | 564 | 1.78 | 0.16 | 30.8 |
| 4/26/2015 0:40:29 | 33.14 | 31.84 | 561 | 1.78 | 0.16 | 30.7 |
| 4/26/2015 0:40:30 | 33.46 | 32.16 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 0:40:31 | 33.79 | 32.49 | 561 | 1.78 | 0.16 | 30.7 |
| 4/26/2015 0:40:32 | 34.12 | 32.82 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 0:40:32 | 34.45 | 33.15 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 0:40:33 | 34.78 | 33.48 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 0:40:34 | 35.11 | 33.81 | 565 | 1.79 | 0.16 | 30.9 |
| 4/26/2015 0:40:34 | 35.43 | 34.13 | 558 | 1.76 | 0.16 | 30.5 |
| 4/26/2015 0:40:35 | 35.76 | 34.46 | 558 | 1.77 | 0.16 | 30.5 |
| 4/26/2015 0:40:35 | 36.09 | 34.79 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 0:40:36 | 36.42 | 35.12 | 555 | 1.80 | 0.16 | 30.4 |
| 4/26/2015 0:40:37 | 36.75 | 35.45 | 558 | 1.77 | 0.16 | 30.5 |
| 4/26/2015 0:40:37 | 37.07 | 35.77 | 558 | 1.81 | 0.16 | 30.5 |
| 4/26/2015 0:40:38 | 37.40 | 36.10 | 558 | 1.79 | 0.17 | 30.5 |
| 4/26/2015 0:40:38 | 37.73 | 36.43 | 558 | 1.76 | 0.16 | 30.5 |
| 4/26/2015 0:40:40 | 38.06 | 36.76 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 0:40:40 | 38.39 | 37.09 | 549 | 1.80 | 0.16 | 30.0 |
| 4/26/2015 0:40:41 | 38.71 | 37.41 | 549 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 0:40:41 | 39.04 | 37.74 | 551 | 1.79 | 0.16 | 30.1 |
| 4/26/2015 0:40:42 | 39.37 | 38.07 | 558 | 1.76 | 0.16 | 30.5 |
| 4/26/2015 0:40:43 | 39.70 | 38.40 | 551 | 1.78 | 0.16 | 30.1 |
| 4/26/2015 0:40:43 | 40.03 | 38.73 | 560 | 1.81 | 0.16 | 30.6 |
| 4/26/2015 0:40:44 | 40.35 | 39.05 | 558 | 1.79 | 0.16 | 30.5 |
| 4/26/2015 0:40:45 | 40.68 | 39.38 | 555 | 1.81 | 0.16 | 30.4 |
| 4/26/2015 0:40:45 | 41.01 | 39.71 | 555 | 1.80 | 0.16 | 30.3 |
| 4/26/2015 0:40:46 | 41.34 | 40.04 | 561 | 1.81 | 0.16 | 30.7 |
| 4/26/2015 0:40:46 | 41.67 | 40.37 | 555 | 1.77 | 0.16 | 30.3 |
| 4/26/2015 0:40:47 | 41.99 | 40.69 | 555 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 0:40:48 | 42.32 | 41.02 | 559 | 1.79 | 0.16 | 30.6 |
| 4/26/2015 0:40:48 | 42.65 | 41.35 | 549 | 1.78 | 0.16 | 30.0 |
| 4/26/2015 0:40:49 | 42.98 | 41.68 | 547 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 0:40:49 | 43.31 | 42.01 | 547 | 1.81 | 0.16 | 29.9 |
| 4/26/2015 0:40:50 | 43.64 | 42.34 | 556 | 1.79 | 0.16 | 30.4 |
| 4/26/2015 0:40:51 | 43.96 | 42.66 | 546 | 1.79 | 0.16 | 29.9 |
| 4/26/2015 0:40:52 | 44.29 | 42.99 | 552 | 1.76 | 0.16 | 30.2 |
| 4/26/2015 0:40:52 | 44.62 | 43.32 | 561 | 1.79 | 0.16 | 30.7 |
| 4/26/2015 0:41:11 | 44.95 | 43.65 | 29 | 1.84 | 1.09 | 1.6 |
| 4/26/2015 0:41:14 | 45.28 | 43.98 | 134 | 1.74 | 1.33 | 7.3 |
| 4/26/2015 0:41:24 | 45.60 | 44.30 | 12 | 1.81 | 1.22 | 0.6 |
| 4/26/2015 0:41:31 | 45.93 | 44.63 | 54 | 1.80 | 1.18 | 2.9 |
| 4/26/2015 0:41:38 | 46.26 | 44.96 | 43 | 1.80 | 1.19 | 2.4 |
| 4/26/2015 0:41:47 | 46.59 | 45.29 | 43 | 1.81 | 1.13 | 2.4 |
| 4/26/2015 0:41:51 | 46.74 | 45.44 | 46 | 1.46 | 1.23 | 2.5 |

## H63 - Summary

**Pattern Number:**
AreaH_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 0:36:16

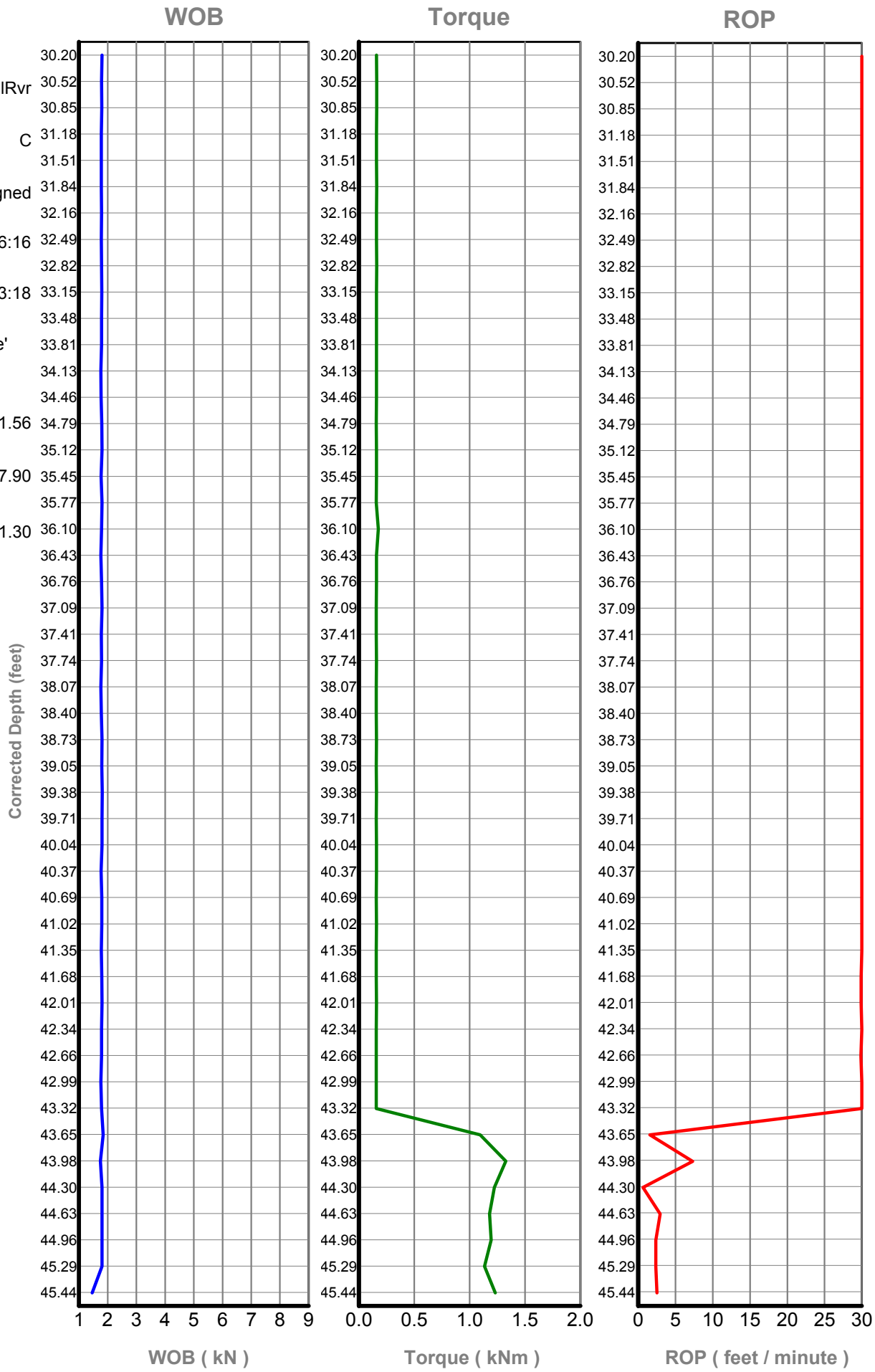
**End Date:**
4/26/2015 0:43:18

**Operator Note:**
'1.3 1.5 c Auto Complete'

**Northing:**
366,471.56

**Easting:**
250,207.90

**Tide (feet):**
1.30



## Hole: H64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:45:31 | 33.14 | 30.14 | 985 | 0.20 | 0.32 | 53.8 |
| 4/25/2015 22:45:32 | 33.46 | 30.46 | 985 | 0.20 | 0.32 | 53.8 |
| 4/25/2015 22:45:32 | 33.79 | 30.79 | 981 | 0.20 | 0.33 | 53.7 |
| 4/25/2015 22:45:32 | 34.12 | 31.12 | 967 | 0.20 | 0.32 | 52.9 |
| 4/25/2015 22:45:33 | 34.45 | 31.45 | 967 | 0.20 | 0.32 | 52.9 |
| 4/25/2015 22:45:33 | 34.78 | 31.78 | 980 | 0.20 | 0.32 | 53.6 |
| 4/25/2015 22:45:33 | 35.11 | 32.11 | 997 | 0.20 | 0.32 | 54.5 |
| 4/25/2015 22:45:34 | 35.43 | 32.43 | 997 | 0.20 | 0.32 | 54.5 |
| 4/25/2015 22:45:34 | 35.76 | 32.76 | 977 | 0.20 | 0.32 | 53.4 |
| 4/25/2015 22:45:34 | 36.09 | 33.09 | 977 | 0.20 | 0.32 | 53.4 |
| 4/25/2015 22:45:35 | 36.42 | 33.42 | 971 | 0.20 | 0.32 | 53.1 |
| 4/25/2015 22:45:35 | 36.75 | 33.75 | 971 | 0.20 | 0.32 | 53.1 |
| 4/25/2015 22:45:35 | 37.07 | 34.07 | 971 | 0.20 | 0.33 | 53.1 |
| 4/25/2015 22:45:36 | 37.40 | 34.40 | 968 | 0.20 | 0.34 | 53.0 |
| 4/25/2015 22:45:36 | 37.73 | 34.73 | 968 | 0.20 | 0.34 | 53.0 |
| 4/25/2015 22:45:36 | 38.06 | 35.06 | 971 | 0.20 | 0.32 | 53.1 |
| 4/25/2015 22:45:37 | 38.39 | 35.39 | 965 | 0.19 | 0.32 | 52.8 |
| 4/25/2015 22:45:38 | 38.71 | 35.71 | 965 | 0.19 | 0.32 | 52.8 |
| 4/25/2015 22:45:38 | 39.04 | 36.04 | 986 | 0.20 | 0.32 | 53.9 |
| 4/25/2015 22:45:38 | 39.37 | 36.37 | 986 | 0.20 | 0.32 | 53.9 |
| 4/25/2015 22:45:39 | 39.70 | 36.70 | 992 | 0.19 | 0.32 | 54.2 |
| 4/25/2015 22:45:39 | 40.03 | 37.03 | 992 | 0.19 | 0.32 | 54.2 |
| 4/25/2015 22:45:39 | 40.35 | 37.35 | 989 | 0.19 | 0.32 | 54.1 |
| 4/25/2015 22:45:40 | 40.68 | 37.68 | 997 | 0.20 | 0.32 | 54.5 |
| 4/25/2015 22:45:40 | 41.01 | 38.01 | 997 | 0.20 | 0.32 | 54.5 |
| 4/25/2015 22:45:40 | 41.34 | 38.34 | 989 | 0.19 | 0.32 | 54.1 |
| 4/25/2015 22:45:41 | 41.67 | 38.67 | 968 | 0.20 | 0.32 | 52.9 |
| 4/25/2015 22:45:41 | 41.99 | 38.99 | 968 | 0.20 | 0.32 | 52.9 |
| 4/25/2015 22:45:41 | 42.32 | 39.32 | 974 | 0.19 | 0.32 | 53.3 |
| 4/25/2015 22:45:42 | 42.65 | 39.65 | 974 | 0.20 | 0.32 | 53.3 |
| 4/25/2015 22:45:42 | 42.98 | 39.98 | 974 | 0.20 | 0.32 | 53.3 |
| 4/25/2015 22:45:42 | 43.31 | 40.31 | 980 | 0.19 | 0.32 | 53.6 |
| 4/25/2015 22:45:43 | 43.64 | 40.64 | 978 | 0.20 | 0.32 | 53.5 |
| 4/25/2015 22:45:43 | 43.96 | 40.96 | 966 | 0.19 | 0.32 | 52.8 |
| 4/25/2015 22:45:44 | 44.29 | 41.29 | 966 | 0.19 | 0.32 | 52.8 |
| 4/25/2015 22:45:44 | 44.62 | 41.62 | 990 | 0.20 | 0.32 | 54.1 |
| 4/25/2015 22:45:44 | 44.95 | 41.95 | 990 | 0.20 | 0.32 | 54.1 |
| 4/25/2015 22:45:45 | 45.28 | 42.28 | 990 | 0.20 | 0.32 | 54.1 |
| 4/25/2015 22:45:45 | 45.60 | 42.60 | 993 | 0.20 | 0.32 | 54.3 |
| 4/25/2015 22:45:45 | 45.93 | 42.93 | 972 | 0.19 | 0.33 | 53.2 |
| 4/25/2015 22:45:46 | 46.26 | 43.26 | 972 | 0.19 | 0.33 | 53.2 |
| 4/25/2015 22:45:46 | 46.59 | 43.59 | 972 | 0.18 | 0.34 | 53.2 |
| 4/25/2015 22:46:09 | 46.92 | 43.92 | 0 | 4.00 | 0.37 | 0.0 |
| 4/25/2015 22:46:12 | 47.24 | 44.24 | 115 | 4.33 | 0.41 | 6.3 |
| 4/25/2015 22:46:15 | 47.57 | 44.57 | 112 | 3.97 | 0.37 | 6.1 |
| 4/25/2015 22:46:25 | 47.90 | 44.90 | 0 | 4.11 | 0.38 | 0.0 |
| 4/25/2015 22:46:28 | 48.23 | 45.23 | 116 | 4.17 | 0.38 | 6.4 |
| 4/25/2015 22:46:30 | 48.56 | 45.56 | 178 | 3.31 | 0.37 | 9.7 |
| 4/25/2015 22:46:34 | 48.88 | 45.88 | 20 | 4.15 | 0.40 | 1.1 |
| 4/25/2015 22:46:38 | 49.21 | 46.21 | 78 | 3.56 | 0.40 | 4.3 |
| 4/25/2015 22:46:44 | 49.54 | 46.54 | 52 | 3.72 | 0.40 | 2.9 |
| 4/25/2015 22:46:49 | 49.87 | 46.87 | 84 | 3.62 | 0.40 | 4.6 |
| 4/25/2015 22:46:56 | 50.20 | 47.20 | 49 | 4.00 | 0.40 | 2.7 |
| 4/25/2015 22:47:03 | 50.53 | 47.53 | 52 | 3.30 | 0.40 | 2.8 |
| 4/25/2015 22:47:10 | 50.85 | 47.85 | 46 | 3.46 | 0.41 | 2.5 |
| 4/25/2015 22:47:17 | 51.18 | 48.18 | 64 | 3.53 | 0.40 | 3.5 |
| 4/25/2015 22:47:23 | 51.51 | 48.51 | 55 | 3.68 | 0.40 | 3.0 |
| 4/25/2015 22:47:29 | 51.81 | 48.81 | 55 | 3.88 | 0.41 | 3.0 |

## H64 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:42:18

**End Date:**
4/25/2015 22:50:30

**Operator Note:**
'3 3.1 b Auto Complete'

**Northing:**
366,527.82

**Easting:**
250,275.06

**Tide (feet):**
3.00



## Hole: H65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:46:04 | 33.14 | 30.14 | 509 | 1.81 | 0.17 | 27.8 |
| 4/25/2015 22:46:05 | 33.46 | 30.46 | 509 | 1.80 | 0.17 | 27.8 |
| 4/25/2015 22:46:06 | 33.79 | 30.79 | 506 | 1.79 | 0.17 | 27.7 |
| 4/25/2015 22:46:06 | 34.12 | 31.12 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:07 | 34.45 | 31.45 | 503 | 1.79 | 0.17 | 27.5 |
| 4/25/2015 22:46:08 | 34.78 | 31.78 | 506 | 1.79 | 0.17 | 27.7 |
| 4/25/2015 22:46:08 | 35.11 | 32.11 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:09 | 35.43 | 32.43 | 497 | 1.82 | 0.17 | 27.2 |
| 4/25/2015 22:46:10 | 35.76 | 32.76 | 507 | 1.79 | 0.17 | 27.7 |
| 4/25/2015 22:46:11 | 36.09 | 33.09 | 504 | 1.80 | 0.17 | 27.5 |
| 4/25/2015 22:46:12 | 36.42 | 33.42 | 509 | 1.78 | 0.17 | 27.8 |
| 4/25/2015 22:46:12 | 36.75 | 33.75 | 509 | 1.81 | 0.17 | 27.8 |
| 4/25/2015 22:46:13 | 37.07 | 34.07 | 503 | 1.80 | 0.17 | 27.5 |
| 4/25/2015 22:46:14 | 37.40 | 34.40 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:14 | 37.73 | 34.73 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:15 | 38.06 | 35.06 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:16 | 38.39 | 35.39 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:46:16 | 38.71 | 35.71 | 506 | 1.80 | 0.17 | 27.7 |
| 4/25/2015 22:46:17 | 39.04 | 36.04 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:46:18 | 39.37 | 36.37 | 500 | 1.81 | 0.17 | 27.3 |
| 4/25/2015 22:46:18 | 39.70 | 36.70 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:46:19 | 40.03 | 37.03 | 500 | 1.81 | 0.17 | 27.3 |
| 4/25/2015 22:46:20 | 40.35 | 37.35 | 500 | 1.80 | 0.17 | 27.3 |
| 4/25/2015 22:46:21 | 40.68 | 37.68 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:22 | 41.01 | 38.01 | 506 | 1.81 | 0.17 | 27.7 |
| 4/25/2015 22:46:22 | 41.34 | 38.34 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:46:23 | 41.67 | 38.67 | 503 | 1.79 | 0.08 | 27.5 |
| 4/25/2015 22:46:24 | 41.99 | 38.99 | 503 | 1.81 | 0.17 | 27.5 |
| 4/25/2015 22:46:24 | 42.32 | 39.32 | 497 | 1.81 | 0.17 | 27.2 |
| 4/25/2015 22:46:25 | 42.65 | 39.65 | 503 | 1.82 | 0.17 | 27.5 |
| 4/25/2015 22:46:26 | 42.98 | 39.98 | 500 | 1.81 | 0.17 | 27.3 |
| 4/25/2015 22:46:26 | 43.31 | 40.31 | 500 | 1.82 | 0.17 | 27.3 |
| 4/25/2015 22:46:27 | 43.64 | 40.64 | 506 | 1.80 | 0.17 | 27.7 |
| 4/25/2015 22:46:28 | 43.96 | 40.96 | 492 | 1.82 | 0.17 | 26.9 |
| 4/25/2015 22:46:28 | 44.29 | 41.29 | 499 | 1.79 | 0.17 | 27.3 |
| 4/25/2015 22:46:29 | 44.62 | 41.62 | 499 | 1.79 | 0.17 | 27.3 |
| 4/25/2015 22:46:30 | 44.95 | 41.95 | 496 | 1.81 | 0.17 | 27.1 |
| 4/25/2015 22:46:30 | 45.28 | 42.28 | 504 | 1.83 | 0.17 | 27.5 |
| 4/25/2015 22:46:32 | 45.60 | 42.60 | 500 | 1.80 | 0.17 | 27.3 |
| 4/25/2015 22:46:32 | 45.93 | 42.93 | 500 | 1.82 | 0.17 | 27.3 |
| 4/25/2015 22:46:33 | 46.26 | 43.26 | 497 | 1.80 | 0.17 | 27.2 |
| 4/25/2015 22:46:34 | 46.59 | 43.59 | 500 | 1.80 | 0.16 | 27.4 |
| 4/25/2015 22:46:34 | 46.92 | 43.92 | 490 | 1.81 | 0.17 | 26.8 |
| 4/25/2015 22:46:57 | 47.24 | 44.24 | 42 | 1.74 | 1.13 | 2.3 |
| 4/25/2015 22:46:59 | 47.57 | 44.57 | 113 | 1.76 | 1.17 | 6.2 |
| 4/25/2015 22:47:00 | 47.90 | 44.90 | 219 | 1.74 | 1.34 | 12.0 |
| 4/25/2015 22:47:11 | 48.23 | 45.23 | 11 | 1.76 | 1.20 | 0.6 |
| 4/25/2015 22:47:13 | 48.56 | 45.56 | 160 | 1.76 | 1.15 | 8.7 |
| 4/25/2015 22:47:14 | 48.88 | 45.88 | 240 | 1.78 | 1.21 | 13.1 |
| 4/25/2015 22:47:35 | 49.21 | 46.21 | 104 | 1.76 | 1.18 | 5.7 |
| 4/25/2015 22:47:37 | 49.54 | 46.54 | 204 | 1.76 | 1.19 | 11.1 |
| 4/25/2015 22:47:53 | 49.87 | 46.87 | 73 | 1.79 | 1.07 | 4.0 |
| 4/25/2015 22:47:55 | 50.20 | 47.20 | 208 | 1.75 | 1.29 | 11.4 |
| 4/25/2015 22:47:57 | 50.53 | 47.53 | 213 | 1.78 | 1.18 | 11.6 |
| 4/25/2015 22:48:07 | 50.85 | 47.85 | 14 | 1.77 | 1.29 | 0.8 |
| 4/25/2015 22:48:09 | 51.18 | 48.18 | 134 | 1.77 | 1.20 | 7.3 |
| 4/25/2015 22:48:10 | 51.51 | 48.51 | 200 | 1.76 | 1.34 | 11.0 |
| 4/25/2015 22:48:12 | 51.84 | 48.84 | 214 | 1.76 | 1.06 | 11.7 |
| 4/25/2015 22:48:13 | 52.17 | 49.17 | 231 | 1.77 | 1.12 | 12.7 |
| 4/25/2015 22:48:15 | 52.49 | 49.49 | 246 | 1.79 | 1.11 | 13.4 |
| 4/25/2015 22:48:31 | 52.82 | 49.82 | 0 | 1.78 | 1.15 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 22:48:33 | 53.15 | 50.15 | 109 | 1.79 | 1.24 | 6.0 |
| 4/25/2015 | 22:48:39 | 53.48 | 50.48 | 62 | 1.80 | 1.19 | 3.4 |
| 4/25/2015 | 22:48:44 | 53.81 | 50.81 | 66 | 1.81 | 1.17 | 3.6 |
| 4/25/2015 | 22:48:52 | 54.13 | 51.13 | 51 | 1.81 | 1.22 | 2.8 |
| 4/25/2015 | 22:48:57 | 54.46 | 51.46 | 89 | 1.81 | 1.12 | 4.9 |
| 4/25/2015 | 22:49:04 | 54.79 | 51.79 | 46 | 1.81 | 1.07 | 2.5 |
| 4/25/2015 | 22:49:13 | 55.12 | 52.12 | 40 | 1.82 | 1.10 | 2.2 |
| 4/25/2015 | 22:49:20 | 55.45 | 52.45 | 60 | 1.79 | 1.08 | 3.3 |
| 4/25/2015 | 22:49:23 | 55.77 | 52.77 | 101 | 1.77 | 1.09 | 5.5 |
| 4/25/2015 | 22:49:32 | 56.10 | 53.10 | 38 | 1.81 | 1.17 | 2.1 |
| 4/25/2015 | 22:49:41 | 56.43 | 53.43 | 41 | 1.80 | 1.08 | 2.2 |
| 4/25/2015 | 22:49:42 | 56.48 | 53.48 | 41 | 1.81 | 1.17 | 2.2 |

## H65 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:44:25

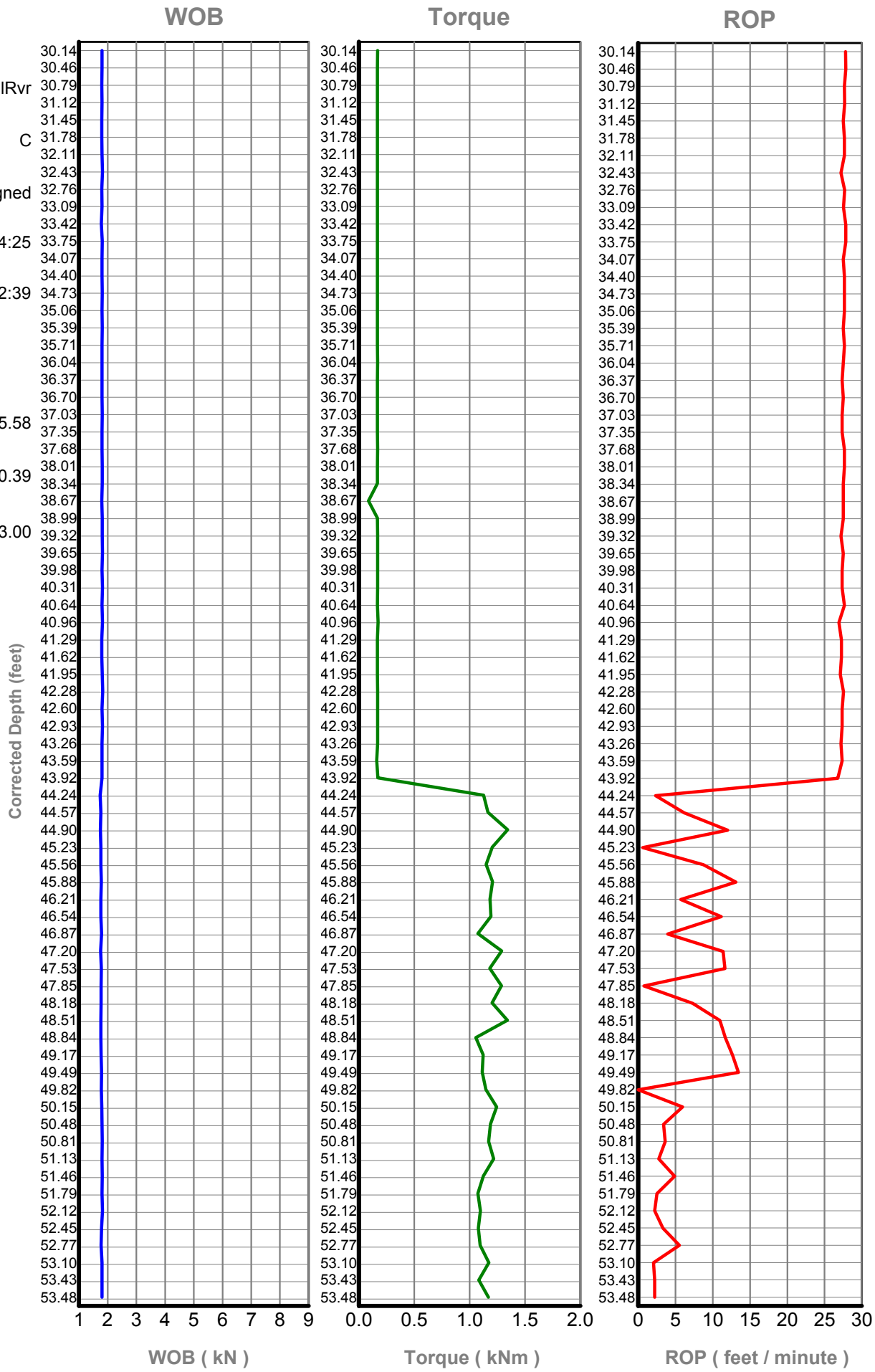
**End Date:**
4/25/2015 22:52:39

**Operator Note:**
'3 3.1 c Auto Complete'

**Northing:**
366,565.58

**Easting:**
250,320.39

**Tide (feet):**
3.00



## Hole: H66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 22:58:56 | 32.81 | 30.11 | 535 | 1.81 | 0.16 | 29.3 |
| 4/25/2015 22:58:57 | 33.14 | 30.44 | 529 | 1.79 | 0.16 | 28.9 |
| 4/25/2015 22:58:57 | 33.46 | 30.76 | 527 | 1.79 | 0.16 | 28.8 |
| 4/25/2015 22:58:58 | 33.79 | 31.09 | 527 | 1.80 | 0.16 | 28.8 |
| 4/25/2015 22:58:59 | 34.12 | 31.42 | 537 | 1.81 | 0.16 | 29.4 |
| 4/25/2015 22:58:59 | 34.45 | 31.75 | 534 | 1.79 | 0.16 | 29.2 |
| 4/25/2015 22:59:00 | 34.78 | 32.08 | 543 | 1.85 | 0.16 | 29.7 |
| 4/25/2015 22:59:01 | 35.11 | 32.41 | 541 | 1.81 | 0.16 | 29.6 |
| 4/25/2015 22:59:02 | 35.43 | 32.73 | 535 | 1.82 | 0.16 | 29.3 |
| 4/25/2015 22:59:02 | 35.76 | 33.06 | 532 | 1.77 | 0.16 | 29.1 |
| 4/25/2015 22:59:03 | 36.09 | 33.39 | 529 | 1.79 | 0.16 | 28.9 |
| 4/25/2015 22:59:04 | 36.42 | 33.72 | 532 | 1.78 | 0.16 | 29.1 |
| 4/25/2015 22:59:04 | 36.75 | 34.05 | 532 | 1.80 | 0.16 | 29.1 |
| 4/25/2015 22:59:05 | 37.07 | 34.37 | 532 | 1.77 | 0.16 | 29.1 |
| 4/25/2015 22:59:05 | 37.40 | 34.70 | 535 | 1.81 | 0.16 | 29.2 |
| 4/25/2015 22:59:06 | 37.73 | 35.03 | 532 | 1.80 | 0.16 | 29.1 |
| 4/25/2015 22:59:07 | 38.06 | 35.36 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 22:59:07 | 38.39 | 35.69 | 538 | 1.78 | 0.16 | 29.4 |
| 4/25/2015 22:59:08 | 38.71 | 36.01 | 532 | 1.79 | 0.16 | 29.1 |
| 4/25/2015 22:59:09 | 39.04 | 36.34 | 532 | 1.81 | 0.16 | 29.1 |
| 4/25/2015 22:59:09 | 39.37 | 36.67 | 535 | 1.81 | 0.16 | 29.2 |
| 4/25/2015 22:59:10 | 39.70 | 37.00 | 532 | 1.78 | 0.16 | 29.1 |
| 4/25/2015 22:59:11 | 40.03 | 37.33 | 529 | 1.82 | 0.16 | 28.9 |
| 4/25/2015 22:59:12 | 40.35 | 37.65 | 538 | 1.81 | 0.16 | 29.4 |
| 4/25/2015 22:59:12 | 40.68 | 37.98 | 532 | 1.79 | 0.16 | 29.1 |
| 4/25/2015 22:59:13 | 41.01 | 38.31 | 535 | 1.80 | 0.16 | 29.2 |
| 4/25/2015 22:59:14 | 41.34 | 38.64 | 532 | 1.83 | 0.16 | 29.1 |
| 4/25/2015 22:59:14 | 41.67 | 38.97 | 532 | 1.81 | 0.16 | 29.1 |
| 4/25/2015 22:59:15 | 41.99 | 39.29 | 532 | 1.78 | 0.16 | 29.1 |
| 4/25/2015 22:59:16 | 42.32 | 39.62 | 532 | 1.81 | 0.16 | 29.1 |
| 4/25/2015 22:59:16 | 42.65 | 39.95 | 535 | 1.81 | 0.16 | 29.3 |
| 4/25/2015 22:59:17 | 42.98 | 40.28 | 529 | 1.81 | 0.16 | 28.9 |
| 4/25/2015 22:59:18 | 43.31 | 40.61 | 535 | 1.79 | 0.16 | 29.3 |
| 4/25/2015 22:59:18 | 43.64 | 40.94 | 529 | 1.80 | 0.15 | 28.9 |
| 4/25/2015 22:59:19 | 43.96 | 41.26 | 529 | 1.79 | 0.16 | 28.9 |
| 4/25/2015 22:59:19 | 44.29 | 41.59 | 532 | 1.82 | 0.15 | 29.1 |
| 4/25/2015 22:59:20 | 44.62 | 41.92 | 529 | 1.78 | 0.16 | 28.9 |
| 4/25/2015 22:59:21 | 44.95 | 42.25 | 532 | 1.77 | 0.16 | 29.1 |
| 4/25/2015 22:59:22 | 45.28 | 42.58 | 526 | 1.80 | 0.16 | 28.8 |
| 4/25/2015 22:59:23 | 45.60 | 42.90 | 529 | 1.81 | 0.15 | 29.0 |
| 4/25/2015 22:59:23 | 45.93 | 43.23 | 529 | 1.80 | 0.16 | 29.0 |
| 4/25/2015 22:59:24 | 46.26 | 43.56 | 529 | 1.79 | 0.16 | 29.0 |
| 4/25/2015 23:00:04 | 46.59 | 43.89 | 34 | 1.74 | 1.11 | 1.9 |
| 4/25/2015 23:00:05 | 46.92 | 44.22 | 170 | 1.76 | 1.35 | 9.3 |
| 4/25/2015 23:00:06 | 47.24 | 44.54 | 234 | 1.74 | 1.14 | 12.8 |
| 4/25/2015 23:00:17 | 47.57 | 44.87 | 127 | 1.77 | 1.14 | 6.9 |
| 4/25/2015 23:00:19 | 47.90 | 45.20 | 205 | 1.78 | 1.17 | 11.2 |
| 4/25/2015 23:00:20 | 48.23 | 45.53 | 198 | 1.77 | 1.35 | 10.8 |
| 4/25/2015 23:00:36 | 48.56 | 45.86 | 104 | 1.74 | 1.15 | 5.7 |
| 4/25/2015 23:00:38 | 48.88 | 46.18 | 237 | 1.74 | 1.12 | 13.0 |
| 4/25/2015 23:00:39 | 49.21 | 46.51 | 252 | 1.75 | 1.06 | 13.8 |
| 4/25/2015 23:00:56 | 49.54 | 46.84 | 84 | 1.76 | 1.08 | 4.6 |
| 4/25/2015 23:00:58 | 49.87 | 47.17 | 195 | 1.75 | 1.05 | 10.7 |
| 4/25/2015 23:00:59 | 50.20 | 47.50 | 283 | 1.77 | 1.04 | 15.5 |
| 4/25/2015 23:01:00 | 50.53 | 47.83 | 288 | 1.75 | 1.04 | 15.7 |
| 4/25/2015 23:01:08 | 50.85 | 48.15 | 90 | 1.72 | 1.07 | 4.9 |
| 4/25/2015 23:01:09 | 51.18 | 48.48 | 198 | 1.75 | 1.15 | 10.8 |
| 4/25/2015 23:01:11 | 51.51 | 48.81 | 251 | 1.74 | 1.08 | 13.7 |
| 4/25/2015 23:01:12 | 51.84 | 49.14 | 268 | 1.77 | 1.15 | 14.7 |
| 4/25/2015 23:01:13 | 52.17 | 49.47 | 279 | 1.76 | 1.24 | 15.3 |
| 4/25/2015 23:01:26 | 52.49 | 49.79 | 3 | 1.74 | 1.06 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 23:01:27 | 52.82 | 50.12 | 73 | 1.76 | 1.11 | 4.0 |
| 4/25/2015 | 23:01:29 | 53.15 | 50.45 | 253 | 1.75 | 1.08 | 13.8 |
| 4/25/2015 | 23:01:30 | 53.48 | 50.78 | 228 | 1.73 | 1.07 | 12.5 |
| 4/25/2015 | 23:01:31 | 53.81 | 51.11 | 240 | 1.74 | 1.05 | 13.1 |
| 4/25/2015 | 23:01:33 | 54.13 | 51.43 | 240 | 1.74 | 1.08 | 13.1 |
| 4/25/2015 | 23:01:34 | 54.46 | 51.76 | 230 | 1.77 | 1.08 | 12.6 |
| 4/25/2015 | 23:01:50 | 54.79 | 52.09 | 84 | 1.76 | 1.11 | 4.6 |
| 4/25/2015 | 23:01:51 | 55.12 | 52.42 | 163 | 1.76 | 1.12 | 8.9 |
| 4/25/2015 | 23:01:53 | 55.45 | 52.75 | 191 | 1.76 | 1.08 | 10.4 |
| 4/25/2015 | 23:01:55 | 55.77 | 53.07 | 165 | 1.77 | 1.10 | 9.0 |
| 4/25/2015 | 23:01:58 | 56.10 | 53.40 | 148 | 1.78 | 1.09 | 8.1 |
| 4/25/2015 | 23:02:00 | 56.43 | 53.73 | 141 | 1.78 | 1.10 | 7.7 |
| 4/25/2015 | 23:02:02 | 56.76 | 54.06 | 146 | 1.76 | 1.10 | 8.0 |
| 4/25/2015 | 23:02:05 | 57.09 | 54.39 | 135 | 1.79 | 1.11 | 7.4 |
| 4/25/2015 | 23:02:08 | 57.41 | 54.71 | 124 | 1.78 | 1.12 | 6.8 |
| 4/25/2015 | 23:02:11 | 57.74 | 55.04 | 103 | 1.79 | 1.12 | 5.7 |
| 4/25/2015 | 23:02:14 | 57.97 | 55.27 | 92 | 1.78 | 1.14 | 5.0 |

## H66 - Summary

**Pattern Number:**
AreaH_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 22:56:58

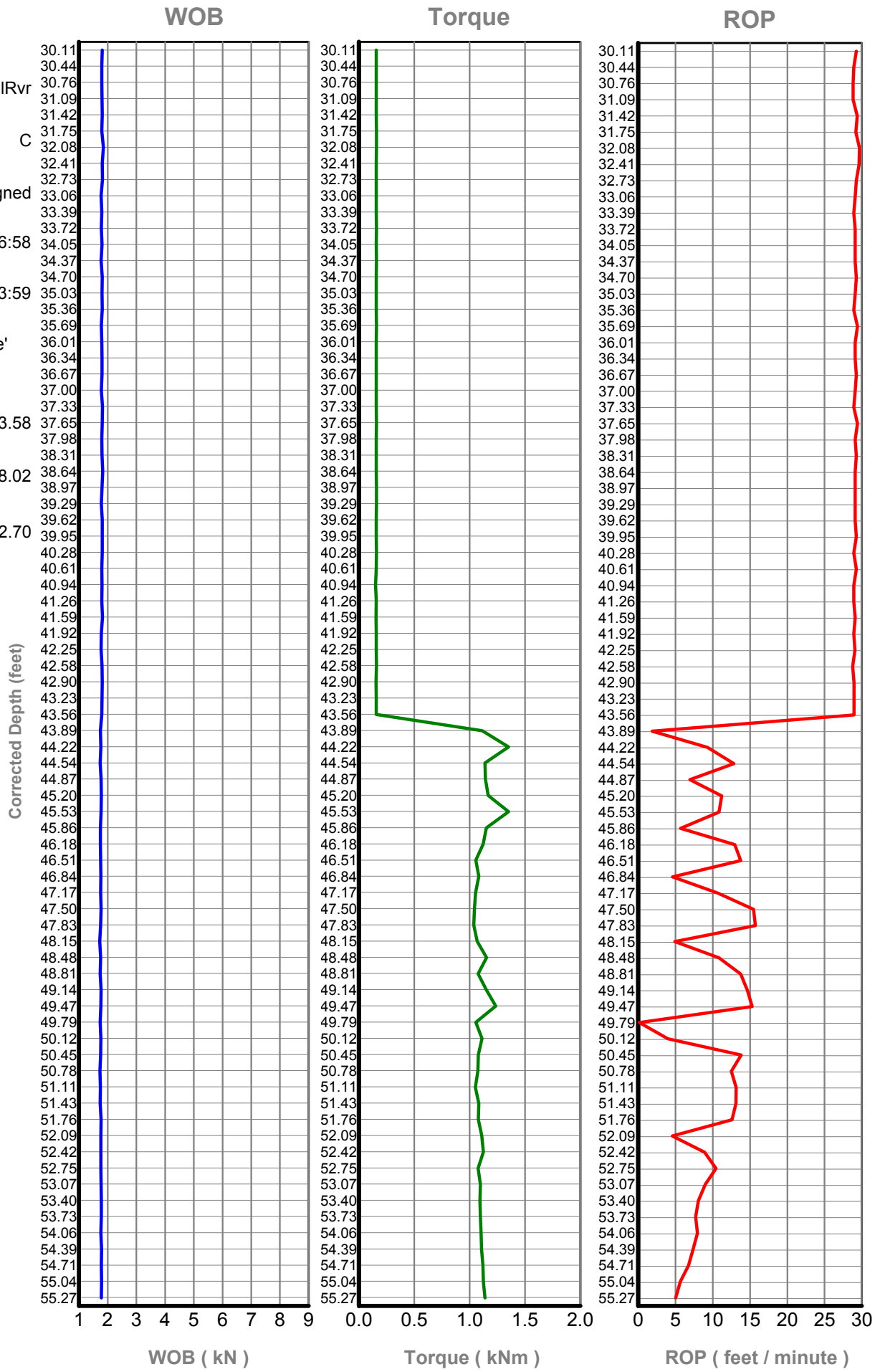
**End Date:**
4/25/2015 23:03:59

**Operator Note:**
'2.7 2.9 c Auto Complete'

**Northing:**
366,613.58

**Easting:**
250,378.02

**Tide (feet):**
2.70



## Hole: H67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:08:05 | 31.50 | 30.10 | 1,015 | 0.30 | 0.31 | 55.5 |
| 4/25/2015 12:08:05 | 31.82 | 30.42 | 1,015 | 0.30 | 0.31 | 55.5 |
| 4/25/2015 12:08:05 | 32.15 | 30.75 | 1,009 | 0.30 | 0.32 | 55.2 |
| 4/25/2015 12:08:06 | 32.48 | 31.08 | 1,003 | 0.30 | 0.31 | 54.9 |
| 4/25/2015 12:08:06 | 32.81 | 31.41 | 1,003 | 0.30 | 0.31 | 54.9 |
| 4/25/2015 12:08:06 | 33.14 | 31.74 | 1,006 | 0.31 | 0.31 | 55.0 |
| 4/25/2015 12:08:07 | 33.46 | 32.06 | 1,000 | 0.31 | 0.32 | 54.7 |
| 4/25/2015 12:08:08 | 33.79 | 32.39 | 1,003 | 0.31 | 0.31 | 54.8 |
| 4/25/2015 12:08:08 | 34.12 | 32.72 | 1,003 | 0.31 | 0.31 | 54.8 |
| 4/25/2015 12:08:08 | 34.45 | 33.05 | 1,003 | 0.31 | 0.31 | 54.8 |
| 4/25/2015 12:08:09 | 34.78 | 33.38 | 1,000 | 0.31 | 0.31 | 54.7 |
| 4/25/2015 12:08:09 | 35.11 | 33.71 | 1,000 | 0.31 | 0.31 | 54.7 |
| 4/25/2015 12:08:09 | 35.43 | 34.03 | 1,000 | 0.30 | 0.31 | 54.7 |
| 4/25/2015 12:08:10 | 35.76 | 34.36 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 12:08:10 | 36.09 | 34.69 | 1,010 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 12:08:10 | 36.42 | 35.02 | 1,001 | 0.31 | 0.32 | 54.7 |
| 4/25/2015 12:08:11 | 36.75 | 35.35 | 998 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 12:08:11 | 37.07 | 35.67 | 998 | 0.33 | 0.31 | 54.6 |
| 4/25/2015 12:08:11 | 37.40 | 36.00 | 989 | 0.31 | 0.31 | 54.1 |
| 4/25/2015 12:08:12 | 37.73 | 36.33 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 12:08:12 | 38.06 | 36.66 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 12:08:12 | 38.39 | 36.99 | 995 | 0.31 | 0.31 | 54.4 |
| 4/25/2015 12:08:13 | 38.71 | 37.31 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 12:08:13 | 39.04 | 37.64 | 1,007 | 0.31 | 0.31 | 55.1 |
| 4/25/2015 12:08:13 | 39.37 | 37.97 | 1,010 | 0.30 | 0.31 | 55.2 |
| 4/25/2015 12:08:14 | 39.70 | 38.30 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 12:08:14 | 40.03 | 38.63 | 1,024 | 0.31 | 0.31 | 56.0 |
| 4/25/2015 12:08:14 | 40.35 | 38.95 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 12:08:15 | 40.68 | 39.28 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:08:15 | 41.01 | 39.61 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:08:15 | 41.34 | 39.94 | 1,015 | 0.31 | 0.31 | 55.5 |
| 4/25/2015 12:08:16 | 41.67 | 40.27 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/25/2015 12:08:16 | 41.99 | 40.59 | 1,015 | 0.30 | 0.32 | 55.5 |
| 4/25/2015 12:08:16 | 42.32 | 40.92 | 1,005 | 0.31 | 0.31 | 55.0 |
| 4/25/2015 12:08:17 | 42.65 | 41.25 | 1,015 | 0.30 | 0.29 | 55.5 |
| 4/25/2015 12:08:17 | 42.98 | 41.58 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 12:08:18 | 43.31 | 41.91 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 12:08:18 | 43.64 | 42.24 | 1,009 | 0.30 | 0.31 | 55.2 |
| 4/25/2015 12:08:19 | 43.96 | 42.56 | 1,006 | 0.31 | 0.30 | 55.0 |
| 4/25/2015 12:08:19 | 44.29 | 42.89 | 1,006 | 0.31 | 0.30 | 55.0 |
| 4/25/2015 12:08:19 | 44.62 | 43.22 | 1,009 | 0.31 | 0.31 | 55.2 |
| 4/25/2015 12:08:20 | 44.95 | 43.55 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/25/2015 12:08:20 | 45.28 | 43.88 | 1,006 | 0.30 | 0.31 | 55.0 |
| 4/25/2015 12:08:20 | 45.60 | 44.20 | 1,003 | 0.30 | 0.31 | 54.9 |
| 4/25/2015 12:08:21 | 45.93 | 44.53 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 12:08:21 | 46.26 | 44.86 | 997 | 0.31 | 0.32 | 54.5 |
| 4/25/2015 12:08:21 | 46.59 | 45.19 | 986 | 0.30 | 0.31 | 53.9 |
| 4/25/2015 12:08:22 | 46.92 | 45.52 | 986 | 0.31 | 0.31 | 53.9 |
| 4/25/2015 12:08:22 | 47.24 | 45.84 | 986 | 0.31 | 0.31 | 53.9 |
| 4/25/2015 12:08:22 | 47.57 | 46.17 | 994 | 0.31 | 0.31 | 54.4 |
| 4/25/2015 12:08:23 | 47.90 | 46.50 | 985 | 0.29 | 0.34 | 53.9 |
| 4/25/2015 12:08:34 | 48.23 | 46.83 | 0 | 3.70 | 0.36 | 0.0 |
| 4/25/2015 12:08:36 | 48.56 | 47.16 | 85 | 4.16 | 0.39 | 4.6 |
| 4/25/2015 12:08:37 | 48.88 | 47.48 | 150 | 3.14 | 0.36 | 8.2 |
| 4/25/2015 12:08:38 | 49.21 | 47.81 | 254 | 5.08 | 0.37 | 13.9 |
| 4/25/2015 12:08:39 | 49.54 | 48.14 | 378 | 3.71 | 0.36 | 20.7 |
| 4/25/2015 12:08:40 | 49.87 | 48.47 | 420 | 2.94 | 0.36 | 22.9 |
| 4/25/2015 12:09:08 | 50.20 | 48.80 | 6 | 5.74 | 0.38 | 0.3 |
| 4/25/2015 12:09:12 | 50.53 | 49.13 | 62 | 3.40 | 0.36 | 3.4 |
| 4/25/2015 12:09:15 | 50.85 | 49.45 | 94 | 2.74 | 0.36 | 5.1 |
| 4/25/2015 12:09:16 | 51.18 | 49.78 | 89 | 3.78 | 0.38 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:09:17 | 51.51 | 50.11 | 177 | 2.97 | 0.36 | 9.7 |
| 4/25/2015 | 12:09:21 | 51.84 | 50.44 | 74 | 3.68 | 0.38 | 4.1 |
| 4/25/2015 | 12:09:24 | 52.17 | 50.77 | 154 | 3.14 | 0.37 | 8.4 |
| 4/25/2015 | 12:09:25 | 52.49 | 51.09 | 231 | 3.11 | 0.37 | 12.6 |
| 4/25/2015 | 12:09:32 | 52.82 | 51.42 | 63 | 3.47 | 0.39 | 3.4 |
| 4/25/2015 | 12:09:35 | 53.15 | 51.75 | 116 | 3.45 | 0.38 | 6.4 |
| 4/25/2015 | 12:09:37 | 53.48 | 52.08 | 212 | 3.67 | 0.38 | 11.6 |
| 4/25/2015 | 12:09:40 | 53.81 | 52.41 | 96 | 3.81 | 0.37 | 5.2 |
| 4/25/2015 | 12:09:42 | 54.13 | 52.73 | 147 | 3.35 | 0.38 | 8.0 |
| 4/25/2015 | 12:09:45 | 54.46 | 53.06 | 139 | 3.29 | 0.38 | 7.6 |
| 4/25/2015 | 12:09:47 | 54.79 | 53.39 | 161 | 3.59 | 0.38 | 8.8 |
| 4/25/2015 | 12:09:49 | 55.12 | 53.72 | 142 | 3.14 | 0.38 | 7.8 |
| 4/25/2015 | 12:09:55 | 55.45 | 54.05 | 121 | 2.88 | 0.38 | 6.6 |
| 4/25/2015 | 12:09:58 | 55.77 | 54.37 | 107 | 3.05 | 0.38 | 5.9 |
| 4/25/2015 | 12:10:01 | 56.10 | 54.70 | 130 | 3.07 | 0.38 | 7.1 |
| 4/25/2015 | 12:10:03 | 56.43 | 55.03 | 142 | 3.24 | 0.38 | 7.7 |
| 4/25/2015 | 12:10:04 | 56.64 | 55.24 | 169 | 3.30 | 0.38 | 9.2 |

## H67 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 12:07:05

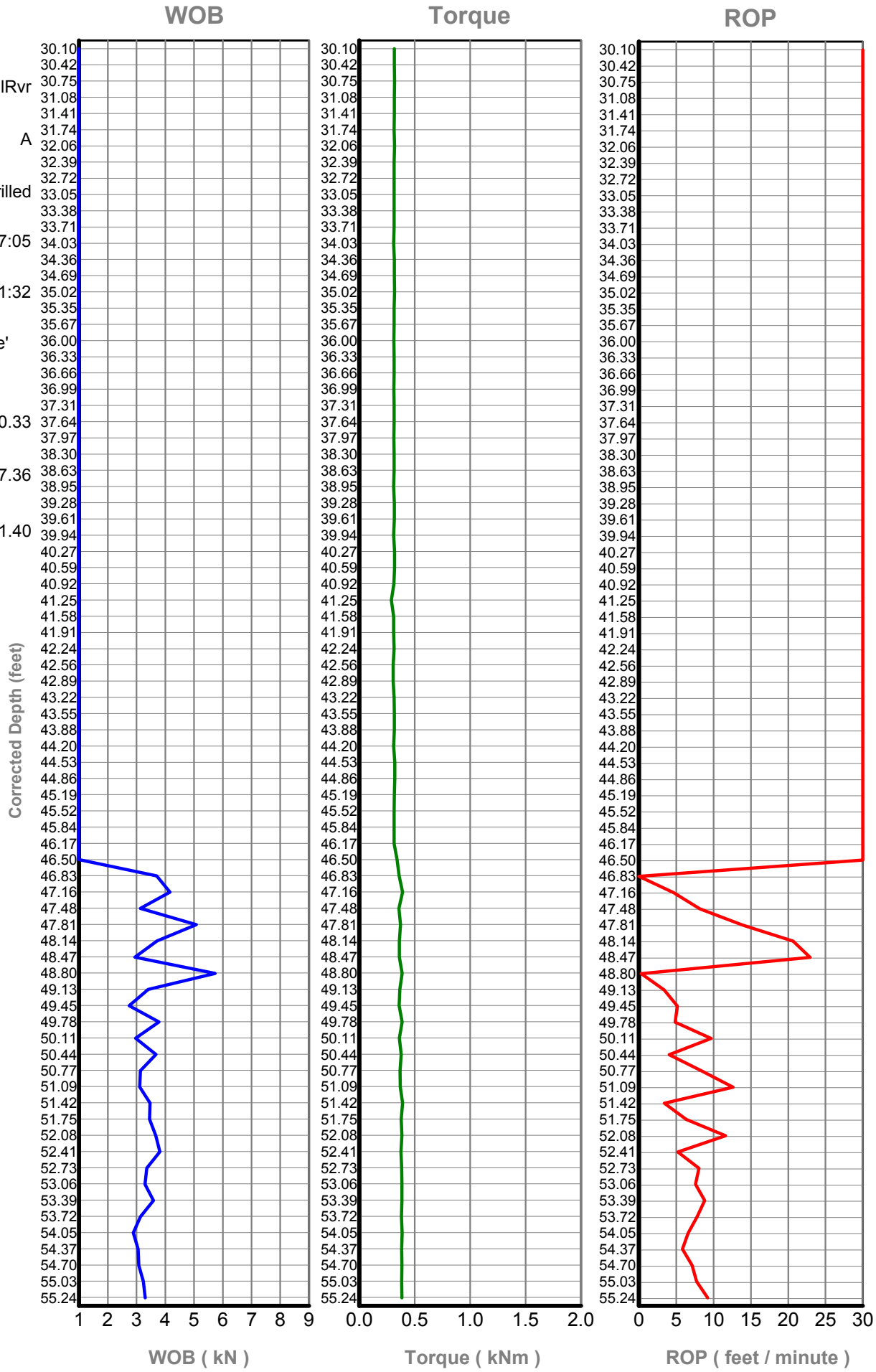
**End Date:**
4/25/2015 12:11:32

**Operator Note:**
'1.4 1.6 b Auto Complete'

**Northing:**
366,680.33

**Easting:**
250,457.36

**Tide (feet):**
1.40



## Hole: H68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:14:10 | 31.50 | 30.10 | 509 | 0.32 | 0.31 | 27.9 |
| 4/25/2015 12:14:11 | 31.82 | 30.42 | 509 | 0.32 | 0.31 | 27.9 |
| 4/25/2015 12:14:11 | 32.15 | 30.75 | 709 | 0.31 | 0.31 | 38.8 |
| 4/25/2015 12:14:11 | 32.48 | 31.08 | 915 | 0.31 | 0.31 | 50.0 |
| 4/25/2015 12:14:12 | 32.81 | 31.41 | 915 | 0.31 | 0.31 | 50.0 |
| 4/25/2015 12:14:12 | 33.14 | 31.74 | 1,029 | 0.32 | 0.31 | 56.3 |
| 4/25/2015 12:14:13 | 33.46 | 32.06 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:14:13 | 33.79 | 32.39 | 1,020 | 0.31 | 0.31 | 55.8 |
| 4/25/2015 12:14:13 | 34.12 | 32.72 | 1,020 | 0.32 | 0.31 | 55.8 |
| 4/25/2015 12:14:14 | 34.45 | 33.05 | 1,009 | 0.32 | 0.31 | 55.2 |
| 4/25/2015 12:14:14 | 34.78 | 33.38 | 1,009 | 0.32 | 0.31 | 55.2 |
| 4/25/2015 12:14:14 | 35.11 | 33.71 | 1,006 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:15 | 35.43 | 34.03 | 1,006 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:15 | 35.76 | 34.36 | 1,006 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:15 | 36.09 | 34.69 | 1,014 | 0.32 | 0.31 | 55.5 |
| 4/25/2015 12:14:16 | 36.42 | 35.02 | 995 | 0.32 | 0.30 | 54.4 |
| 4/25/2015 12:14:16 | 36.75 | 35.35 | 995 | 0.32 | 0.30 | 54.4 |
| 4/25/2015 12:14:16 | 37.07 | 35.67 | 995 | 0.32 | 0.31 | 54.4 |
| 4/25/2015 12:14:17 | 37.40 | 36.00 | 998 | 0.32 | 0.31 | 54.6 |
| 4/25/2015 12:14:17 | 37.73 | 36.33 | 998 | 0.32 | 0.31 | 54.6 |
| 4/25/2015 12:14:17 | 38.06 | 36.66 | 998 | 0.32 | 0.32 | 54.6 |
| 4/25/2015 12:14:18 | 38.39 | 36.99 | 1,027 | 0.32 | 0.31 | 56.1 |
| 4/25/2015 12:14:18 | 38.71 | 37.31 | 1,027 | 0.32 | 0.31 | 56.1 |
| 4/25/2015 12:14:18 | 39.04 | 37.64 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/25/2015 12:14:19 | 39.37 | 37.97 | 1,021 | 0.33 | 0.31 | 55.8 |
| 4/25/2015 12:14:19 | 39.70 | 38.30 | 1,021 | 0.33 | 0.31 | 55.8 |
| 4/25/2015 12:14:19 | 40.03 | 38.63 | 1,040 | 0.32 | 0.30 | 56.9 |
| 4/25/2015 12:14:20 | 40.35 | 38.95 | 1,040 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 12:14:20 | 40.68 | 39.28 | 1,040 | 0.32 | 0.31 | 56.9 |
| 4/25/2015 12:14:20 | 41.01 | 39.61 | 1,032 | 0.32 | 0.31 | 56.4 |
| 4/25/2015 12:14:21 | 41.34 | 39.94 | 1,005 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:22 | 41.67 | 40.27 | 1,005 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:21 | 41.99 | 40.59 | 1,005 | 0.32 | 0.31 | 55.0 |
| 4/25/2015 12:14:22 | 42.32 | 40.92 | 1,005 | 0.33 | 0.31 | 55.0 |
| 4/25/2015 12:14:23 | 42.65 | 41.25 | 1,005 | 0.33 | 0.31 | 55.0 |
| 4/25/2015 12:14:23 | 42.98 | 41.58 | 1,008 | 0.32 | 0.31 | 55.1 |
| 4/25/2015 12:14:23 | 43.31 | 41.91 | 1,008 | 0.32 | 0.31 | 55.1 |
| 4/25/2015 12:14:24 | 43.64 | 42.24 | 1,008 | 0.32 | 0.31 | 55.1 |
| 4/25/2015 12:14:24 | 43.96 | 42.56 | 1,013 | 0.32 | 0.32 | 55.4 |
| 4/25/2015 12:14:24 | 44.29 | 42.89 | 1,017 | 0.32 | 0.29 | 55.6 |
| 4/25/2015 12:14:25 | 44.62 | 43.22 | 1,017 | 0.32 | 0.29 | 55.6 |
| 4/25/2015 12:14:25 | 44.95 | 43.55 | 1,047 | 0.33 | 0.30 | 57.2 |
| 4/25/2015 12:14:25 | 45.28 | 43.88 | 1,029 | 0.39 | 0.32 | 56.3 |
| 4/25/2015 12:14:26 | 45.60 | 44.20 | 1,029 | 0.39 | 0.32 | 56.3 |
| 4/25/2015 12:14:26 | 45.93 | 44.53 | 1,029 | 0.33 | 0.31 | 56.3 |
| 4/25/2015 12:14:26 | 46.26 | 44.86 | 1,027 | 0.35 | 0.31 | 56.1 |
| 4/25/2015 12:14:27 | 46.59 | 45.19 | 1,027 | 0.35 | 0.31 | 56.1 |
| 4/25/2015 12:14:27 | 46.92 | 45.52 | 1,016 | 0.33 | 0.31 | 55.6 |
| 4/25/2015 12:14:27 | 47.24 | 45.84 | 982 | 0.30 | 0.33 | 53.7 |
| 4/25/2015 12:14:39 | 47.57 | 46.17 | 60 | 3.25 | 0.38 | 3.3 |
| 4/25/2015 12:14:51 | 47.90 | 46.50 | 47 | 4.53 | 0.37 | 2.6 |
| 4/25/2015 12:14:52 | 48.23 | 46.83 | 121 | 3.54 | 0.37 | 6.6 |
| 4/25/2015 12:15:00 | 48.56 | 47.16 | 106 | 4.49 | 0.37 | 5.8 |
| 4/25/2015 12:15:01 | 48.88 | 47.48 | 168 | 3.96 | 0.36 | 9.2 |
| 4/25/2015 12:15:06 | 49.21 | 47.81 | 14 | 2.65 | 0.36 | 0.8 |
| 4/25/2015 12:15:07 | 49.54 | 48.14 | 197 | 3.37 | 0.37 | 10.8 |
| 4/25/2015 12:15:08 | 49.87 | 48.47 | 305 | 3.82 | 0.38 | 16.7 |
| 4/25/2015 12:15:10 | 50.20 | 48.80 | 209 | 3.11 | 0.37 | 11.4 |
| 4/25/2015 12:15:12 | 50.53 | 49.13 | 175 | 2.87 | 0.38 | 9.6 |
| 4/25/2015 12:15:16 | 50.85 | 49.45 | 74 | 2.72 | 0.38 | 4.0 |
| 4/25/2015 12:15:18 | 51.18 | 49.78 | 167 | 2.99 | 0.37 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:15:36 | 51.51 | 50.11 | 53 | 2.80 | 0.39 | 2.9 |
| 4/25/2015 | 12:15:40 | 51.84 | 50.44 | 86 | 2.80 | 0.38 | 4.7 |
| 4/25/2015 | 12:15:44 | 52.17 | 50.77 | 98 | 2.87 | 0.39 | 5.4 |
| 4/25/2015 | 12:15:46 | 52.49 | 51.09 | 95 | 2.62 | 0.36 | 5.2 |
| 4/25/2015 | 12:15:46 | 52.82 | 51.42 | 169 | 2.56 | 0.36 | 9.2 |
| 4/25/2015 | 12:15:47 | 53.15 | 51.75 | 247 | 3.45 | 0.37 | 13.5 |
| 4/25/2015 | 12:15:52 | 53.48 | 52.08 | 85 | 4.06 | 0.38 | 4.7 |
| 4/25/2015 | 12:15:59 | 53.81 | 52.41 | 66 | 3.94 | 0.38 | 3.6 |
| 4/25/2015 | 12:16:03 | 54.13 | 52.73 | 60 | 2.96 | 0.37 | 3.3 |
| 4/25/2015 | 12:16:07 | 54.46 | 53.06 | 98 | 3.72 | 0.39 | 5.3 |
| 4/25/2015 | 12:16:11 | 54.79 | 53.39 | 108 | 3.55 | 0.39 | 5.9 |
| 4/25/2015 | 12:16:18 | 55.12 | 53.72 | 65 | 3.40 | 0.39 | 3.6 |
| 4/25/2015 | 12:16:23 | 55.45 | 54.05 | 79 | 3.05 | 0.38 | 4.3 |
| 4/25/2015 | 12:16:28 | 55.77 | 54.37 | 60 | 3.01 | 0.38 | 3.3 |
| 4/25/2015 | 12:16:33 | 56.10 | 54.70 | 78 | 2.97 | 0.38 | 4.2 |
| 4/25/2015 | 12:16:38 | 56.43 | 55.03 | 88 | 3.16 | 0.39 | 4.8 |
| 4/25/2015 | 12:16:38 | 56.47 | 55.07 | 88 | 3.16 | 0.39 | 4.8 |

## H68 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:12:06

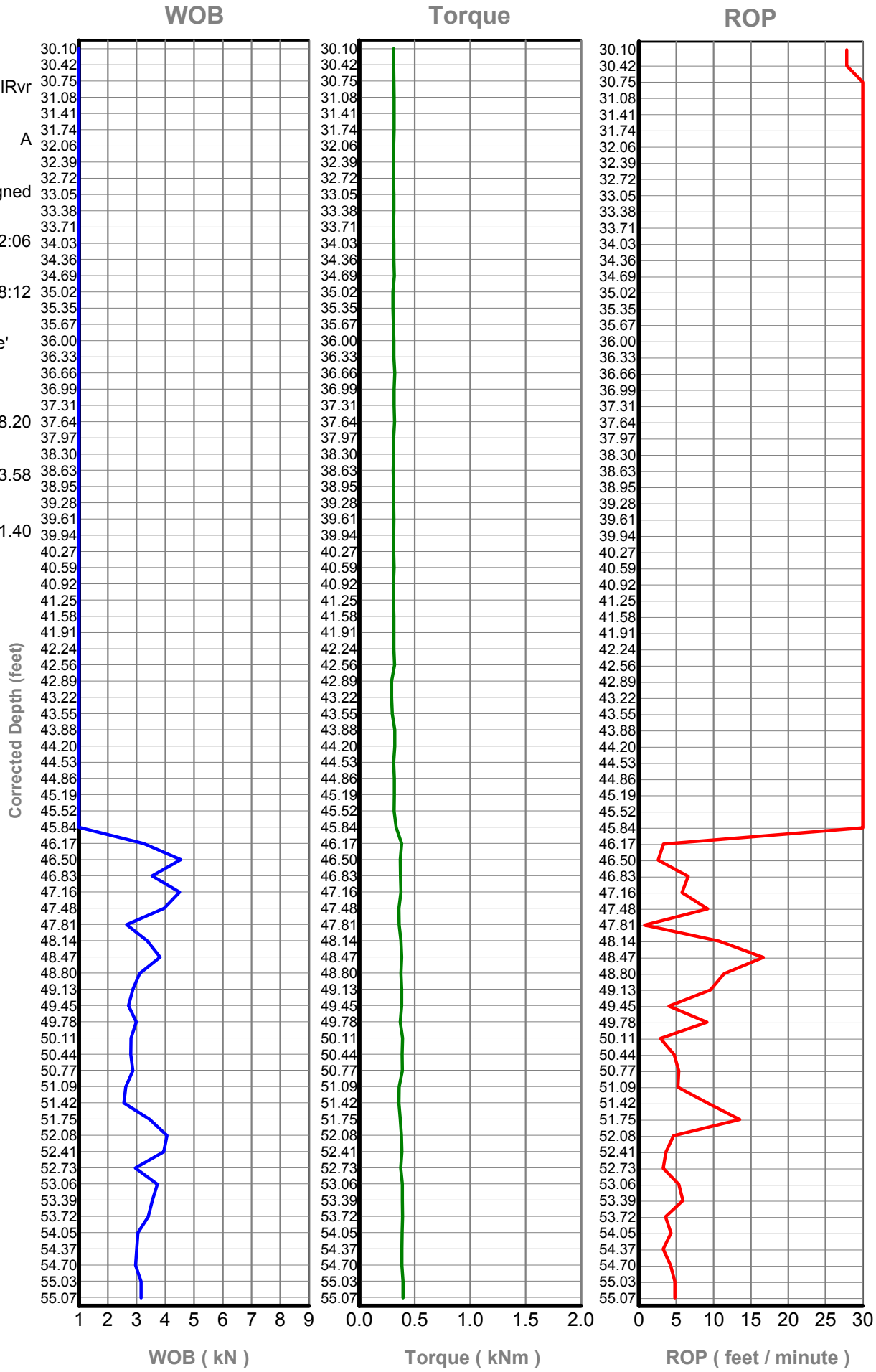
**End Date:**
4/25/2015 12:18:12

**Operator Note:**
'1.4 1.4 b Auto Complete'

**Northing:**
366,718.20

**Easting:**
250,503.58

**Tide (feet):**
1.40



## Hole: H69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 12:08:34 | 31.50 | 30.10 | 608 | 1.78 | 0.30 | 33.3 |
| 4/25/2015 12:08:35 | 31.82 | 30.42 | 608 | 1.76 | 0.29 | 33.3 |
| 4/25/2015 12:08:35 | 32.15 | 30.75 | 614 | 1.75 | 0.30 | 33.6 |
| 4/25/2015 12:08:36 | 32.48 | 31.08 | 615 | 1.77 | 0.30 | 33.6 |
| 4/25/2015 12:08:36 | 32.81 | 31.41 | 611 | 1.75 | 0.30 | 33.4 |
| 4/25/2015 12:08:37 | 33.14 | 31.74 | 615 | 1.76 | 0.29 | 33.6 |
| 4/25/2015 12:08:37 | 33.46 | 32.06 | 624 | 1.76 | 0.29 | 34.1 |
| 4/25/2015 12:08:38 | 33.79 | 32.39 | 619 | 1.77 | 0.30 | 33.8 |
| 4/25/2015 12:08:38 | 34.12 | 32.72 | 612 | 1.76 | 0.30 | 33.5 |
| 4/25/2015 12:08:39 | 34.45 | 33.05 | 619 | 1.76 | 0.29 | 33.8 |
| 4/25/2015 12:08:40 | 34.78 | 33.38 | 616 | 1.75 | 0.29 | 33.7 |
| 4/25/2015 12:08:40 | 35.11 | 33.71 | 616 | 1.76 | 0.30 | 33.7 |
| 4/25/2015 12:08:41 | 35.43 | 34.03 | 622 | 1.76 | 0.29 | 34.0 |
| 4/25/2015 12:08:42 | 35.76 | 34.36 | 616 | 1.78 | 0.29 | 33.7 |
| 4/25/2015 12:08:42 | 36.09 | 34.69 | 612 | 1.81 | 0.30 | 33.5 |
| 4/25/2015 12:08:43 | 36.42 | 35.02 | 616 | 1.77 | 0.29 | 33.7 |
| 4/25/2015 12:08:43 | 36.75 | 35.35 | 619 | 1.74 | 0.30 | 33.8 |
| 4/25/2015 12:08:44 | 37.07 | 35.67 | 616 | 1.75 | 0.29 | 33.7 |
| 4/25/2015 12:08:45 | 37.40 | 36.00 | 612 | 1.76 | 0.29 | 33.5 |
| 4/25/2015 12:08:45 | 37.73 | 36.33 | 612 | 1.76 | 0.29 | 33.5 |
| 4/25/2015 12:08:46 | 38.06 | 36.66 | 614 | 1.75 | 0.29 | 33.6 |
| 4/25/2015 12:08:46 | 38.39 | 36.99 | 610 | 1.75 | 0.29 | 33.4 |
| 4/25/2015 12:08:47 | 38.71 | 37.31 | 607 | 1.75 | 0.29 | 33.2 |
| 4/25/2015 12:08:47 | 39.04 | 37.64 | 611 | 1.76 | 0.29 | 33.4 |
| 4/25/2015 12:08:48 | 39.37 | 37.97 | 621 | 1.74 | 0.29 | 34.0 |
| 4/25/2015 12:08:48 | 39.70 | 38.30 | 616 | 1.76 | 0.29 | 33.7 |
| 4/25/2015 12:08:49 | 40.03 | 38.63 | 620 | 1.75 | 0.29 | 33.9 |
| 4/25/2015 12:08:50 | 40.35 | 38.95 | 606 | 1.77 | 0.29 | 33.2 |
| 4/25/2015 12:08:50 | 40.68 | 39.28 | 606 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 12:08:51 | 41.01 | 39.61 | 607 | 1.75 | 0.29 | 33.2 |
| 4/25/2015 12:08:51 | 41.34 | 39.94 | 609 | 1.77 | 0.29 | 33.3 |
| 4/25/2015 12:08:52 | 41.67 | 40.27 | 613 | 1.78 | 0.29 | 33.5 |
| 4/25/2015 12:08:53 | 41.99 | 40.59 | 606 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 12:08:53 | 42.32 | 40.92 | 613 | 1.74 | 0.29 | 33.5 |
| 4/25/2015 12:08:54 | 42.65 | 41.25 | 600 | 1.76 | 0.29 | 32.8 |
| 4/25/2015 12:08:55 | 42.98 | 41.58 | 604 | 1.76 | 0.29 | 33.0 |
| 4/25/2015 12:08:55 | 43.31 | 41.91 | 600 | 1.76 | 0.29 | 32.8 |
| 4/25/2015 12:08:56 | 43.64 | 42.24 | 604 | 1.75 | 0.29 | 33.0 |
| 4/25/2015 12:08:56 | 43.96 | 42.56 | 607 | 1.76 | 0.29 | 33.2 |
| 4/25/2015 12:08:57 | 44.29 | 42.89 | 614 | 1.76 | 0.29 | 33.6 |
| 4/25/2015 12:08:57 | 44.62 | 43.22 | 606 | 1.76 | 0.29 | 33.1 |
| 4/25/2015 12:08:58 | 44.95 | 43.55 | 603 | 1.77 | 0.29 | 33.0 |
| 4/25/2015 12:08:59 | 45.28 | 43.88 | 607 | 1.76 | 0.28 | 33.2 |
| 4/25/2015 12:08:59 | 45.60 | 44.20 | 601 | 1.76 | 0.29 | 32.9 |
| 4/25/2015 12:09:00 | 45.93 | 44.53 | 597 | 1.76 | 0.28 | 32.7 |
| 4/25/2015 12:09:00 | 46.26 | 44.86 | 597 | 1.76 | 0.29 | 32.7 |
| 4/25/2015 12:09:01 | 46.59 | 45.19 | 608 | 1.76 | 0.28 | 33.3 |
| 4/25/2015 12:09:01 | 46.92 | 45.52 | 601 | 1.76 | 0.29 | 32.9 |
| 4/25/2015 12:09:16 | 47.24 | 45.84 | 0 | 1.79 | 0.93 | 0.0 |
| 4/25/2015 12:09:20 | 47.57 | 46.17 | 0 | 1.79 | 0.93 | 0.0 |
| 4/25/2015 12:09:21 | 47.90 | 46.50 | 94 | 1.78 | 1.00 | 5.1 |
| 4/25/2015 12:09:25 | 48.23 | 46.83 | 190 | 1.77 | 1.06 | 10.4 |
| 4/25/2015 12:09:48 | 48.56 | 47.16 | 79 | 1.76 | 0.87 | 4.3 |
| 4/25/2015 12:09:48 | 48.88 | 47.48 | 191 | 1.78 | 1.00 | 10.4 |
| 4/25/2015 12:09:49 | 49.21 | 47.81 | 265 | 1.77 | 0.93 | 14.5 |
| 4/25/2015 12:10:02 | 49.54 | 48.14 | 39 | 1.79 | 0.93 | 2.1 |
| 4/25/2015 12:10:03 | 49.87 | 48.47 | 166 | 1.77 | 0.90 | 9.1 |
| 4/25/2015 12:10:05 | 50.20 | 48.80 | 295 | 1.76 | 0.98 | 16.1 |
| 4/25/2015 12:10:07 | 50.53 | 49.13 | 241 | 1.74 | 0.99 | 13.2 |
| 4/25/2015 12:10:18 | 50.85 | 49.45 | 64 | 1.79 | 0.93 | 3.5 |
| 4/25/2015 12:10:23 | 51.18 | 49.78 | 36 | 1.78 | 1.11 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 12:10:25 | 51.51 | 50.11 | 58 | 1.76 | 1.07 | 3.2 |
| 4/25/2015 | 12:10:27 | 51.84 | 50.44 | 156 | 1.77 | 1.18 | 8.5 |
| 4/25/2015 | 12:10:28 | 52.17 | 50.77 | 246 | 1.76 | 1.12 | 13.4 |
| 4/25/2015 | 12:10:30 | 52.49 | 51.09 | 208 | 1.75 | 1.09 | 11.4 |
| 4/25/2015 | 12:10:32 | 52.82 | 51.42 | 145 | 1.74 | 1.12 | 7.9 |
| 4/25/2015 | 12:10:34 | 53.15 | 51.75 | 150 | 1.79 | 1.15 | 8.2 |
| 4/25/2015 | 12:10:37 | 53.48 | 52.08 | 157 | 1.79 | 1.18 | 8.6 |
| 4/25/2015 | 12:10:53 | 53.81 | 52.41 | 95 | 1.77 | 1.14 | 5.2 |
| 4/25/2015 | 12:10:56 | 54.13 | 52.73 | 133 | 1.76 | 1.19 | 7.3 |
| 4/25/2015 | 12:11:00 | 54.46 | 53.06 | 95 | 1.77 | 1.15 | 5.2 |
| 4/25/2015 | 12:11:04 | 54.79 | 53.39 | 87 | 1.76 | 1.15 | 4.8 |
| 4/25/2015 | 12:11:06 | 55.12 | 53.72 | 145 | 1.77 | 1.11 | 7.9 |
| 4/25/2015 | 12:11:13 | 55.45 | 54.05 | 41 | 1.78 | 1.18 | 2.2 |
| 4/25/2015 | 12:11:24 | 55.77 | 54.37 | 67 | 1.77 | 1.12 | 3.7 |
| 4/25/2015 | 12:11:28 | 56.10 | 54.70 | 97 | 1.76 | 1.14 | 5.3 |
| 4/25/2015 | 12:11:31 | 56.43 | 55.03 | 156 | 1.79 | 1.13 | 8.5 |
| 4/25/2015 | 12:11:34 | 56.73 | 55.33 | 79 | 1.79 | 1.18 | 4.3 |

## H69 - Summary

**Pattern Number:**
AreaH_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/25/2015 12:07:07

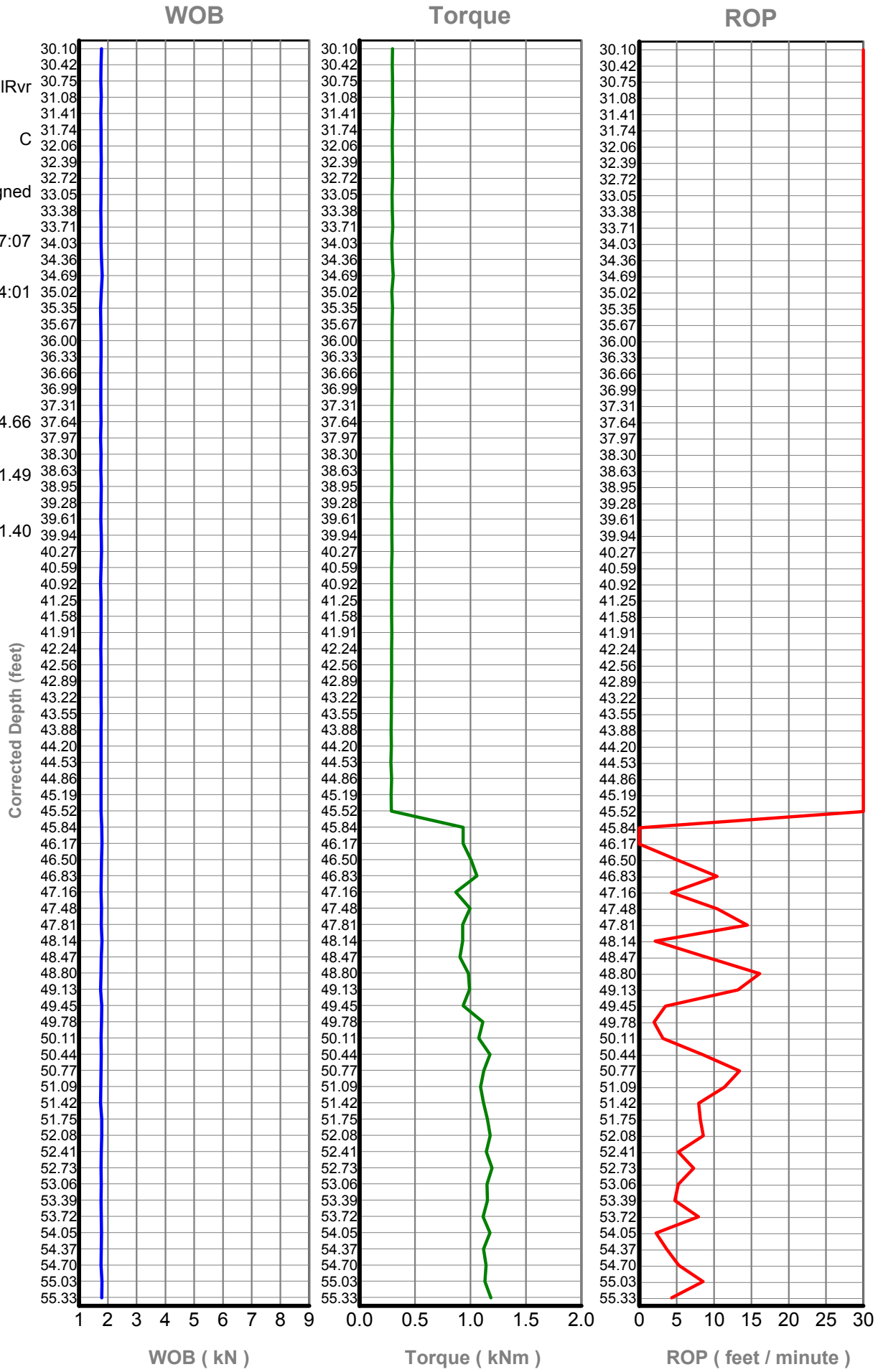
**End Date:**
4/25/2015 12:14:01

**Operator Note:**
'1.4 1.6 C Auto Complete'

**Northing:**
366,764.66

**Easting:**
250,561.49

**Tide (feet):**
1.40



## Hole: H7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:28:49 | 34.12 | 30.12 | 949 | 1.93 | 0.33 | 51.9 |
| 4/26/2015 23:28:50 | 34.45 | 30.45 | 949 | 1.93 | 0.33 | 51.9 |
| 4/26/2015 23:28:50 | 34.78 | 30.78 | 939 | 1.90 | 0.33 | 51.3 |
| 4/26/2015 23:28:51 | 35.11 | 31.11 | 924 | 1.95 | 0.34 | 50.5 |
| 4/26/2015 23:28:51 | 35.43 | 31.43 | 915 | 1.93 | 0.33 | 50.0 |
| 4/26/2015 23:28:51 | 35.76 | 31.76 | 915 | 1.93 | 0.33 | 50.0 |
| 4/26/2015 23:28:51 | 36.09 | 32.09 | 915 | 1.93 | 0.33 | 50.0 |
| 4/26/2015 23:28:52 | 36.42 | 32.42 | 933 | 1.93 | 0.30 | 51.0 |
| 4/26/2015 23:28:53 | 36.75 | 32.75 | 933 | 1.93 | 0.30 | 51.0 |
| 4/26/2015 23:28:53 | 37.07 | 33.07 | 921 | 1.93 | 0.33 | 50.4 |
| 4/26/2015 23:28:53 | 37.40 | 33.40 | 940 | 1.93 | 0.33 | 51.4 |
| 4/26/2015 23:28:54 | 37.73 | 33.73 | 940 | 1.93 | 0.33 | 51.4 |
| 4/26/2015 23:28:54 | 38.06 | 34.06 | 940 | 1.93 | 0.33 | 51.4 |
| 4/26/2015 23:28:54 | 38.39 | 34.39 | 961 | 1.93 | 0.33 | 52.5 |
| 4/26/2015 23:28:55 | 38.71 | 34.71 | 942 | 1.93 | 0.33 | 51.5 |
| 4/26/2015 23:28:55 | 39.04 | 35.04 | 951 | 1.93 | 0.33 | 52.0 |
| 4/26/2015 23:28:56 | 39.37 | 35.37 | 951 | 1.93 | 0.33 | 52.0 |
| 4/26/2015 23:28:56 | 39.70 | 35.70 | 927 | 1.93 | 0.33 | 50.7 |
| 4/26/2015 23:28:56 | 40.03 | 36.03 | 925 | 1.93 | 0.33 | 50.6 |
| 4/26/2015 23:28:57 | 40.35 | 36.35 | 925 | 1.93 | 0.33 | 50.6 |
| 4/26/2015 23:28:57 | 40.68 | 36.68 | 916 | 1.93 | 0.33 | 50.1 |
| 4/26/2015 23:28:57 | 41.01 | 37.01 | 916 | 0.36 | 0.33 | 50.1 |
| 4/26/2015 23:28:58 | 41.34 | 37.34 | 919 | 0.36 | 0.33 | 50.3 |
| 4/26/2015 23:28:58 | 41.67 | 37.67 | 919 | 0.36 | 0.33 | 50.3 |
| 4/26/2015 23:28:58 | 41.99 | 37.99 | 919 | 0.36 | 0.33 | 50.3 |
| 4/26/2015 23:28:59 | 42.32 | 38.32 | 918 | 0.36 | 0.34 | 50.2 |
| 4/26/2015 23:28:59 | 42.65 | 38.65 | 918 | 0.37 | 0.33 | 50.2 |
| 4/26/2015 23:29:00 | 42.98 | 38.98 | 918 | 0.37 | 0.33 | 50.2 |
| 4/26/2015 23:29:00 | 43.31 | 39.31 | 946 | 0.37 | 0.33 | 51.7 |
| 4/26/2015 23:29:00 | 43.64 | 39.64 | 957 | 0.37 | 0.33 | 52.3 |
| 4/26/2015 23:29:01 | 43.96 | 39.96 | 957 | 0.37 | 0.33 | 52.3 |
| 4/26/2015 23:29:01 | 44.29 | 40.29 | 954 | 0.37 | 0.33 | 52.2 |
| 4/26/2015 23:29:01 | 44.62 | 40.62 | 957 | 0.37 | 0.33 | 52.4 |
| 4/26/2015 23:29:02 | 44.95 | 40.95 | 937 | 0.36 | 0.35 | 51.2 |
| 4/26/2015 23:29:02 | 45.28 | 41.28 | 937 | 0.36 | 0.35 | 51.2 |
| 4/26/2015 23:29:17 | 45.60 | 41.60 | 0 | 3.48 | 0.36 | 0.0 |
| 4/26/2015 23:29:17 | 45.93 | 41.93 | 103 | 3.69 | 0.38 | 5.6 |
| 4/26/2015 23:29:21 | 46.26 | 42.26 | 97 | 4.55 | 0.41 | 5.3 |
| 4/26/2015 23:29:24 | 46.59 | 42.59 | 121 | 4.75 | 0.40 | 6.6 |
| 4/26/2015 23:29:27 | 46.92 | 42.92 | 110 | 4.21 | 0.40 | 6.0 |
| 4/26/2015 23:29:29 | 47.24 | 43.24 | 165 | 4.53 | 0.39 | 9.0 |
| 4/26/2015 23:29:30 | 47.57 | 43.57 | 212 | 3.82 | 0.39 | 11.6 |
| 4/26/2015 23:29:36 | 47.90 | 43.90 | 65 | 3.56 | 0.40 | 3.6 |
| 4/26/2015 23:29:45 | 48.23 | 44.23 | 43 | 3.62 | 0.41 | 2.3 |
| 4/26/2015 23:29:53 | 48.56 | 44.56 | 37 | 3.14 | 0.40 | 2.0 |
| 4/26/2015 23:30:02 | 48.88 | 44.88 | 38 | 3.83 | 0.41 | 2.1 |
| 4/26/2015 23:30:12 | 49.21 | 45.21 | 39 | 3.28 | 0.41 | 2.2 |
| 4/26/2015 23:30:20 | 49.54 | 45.54 | 40 | 3.29 | 0.40 | 2.2 |
| 4/26/2015 23:30:21 | 49.61 | 45.61 | 40 | 4.18 | 0.41 | 2.2 |

## H7 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:26:46

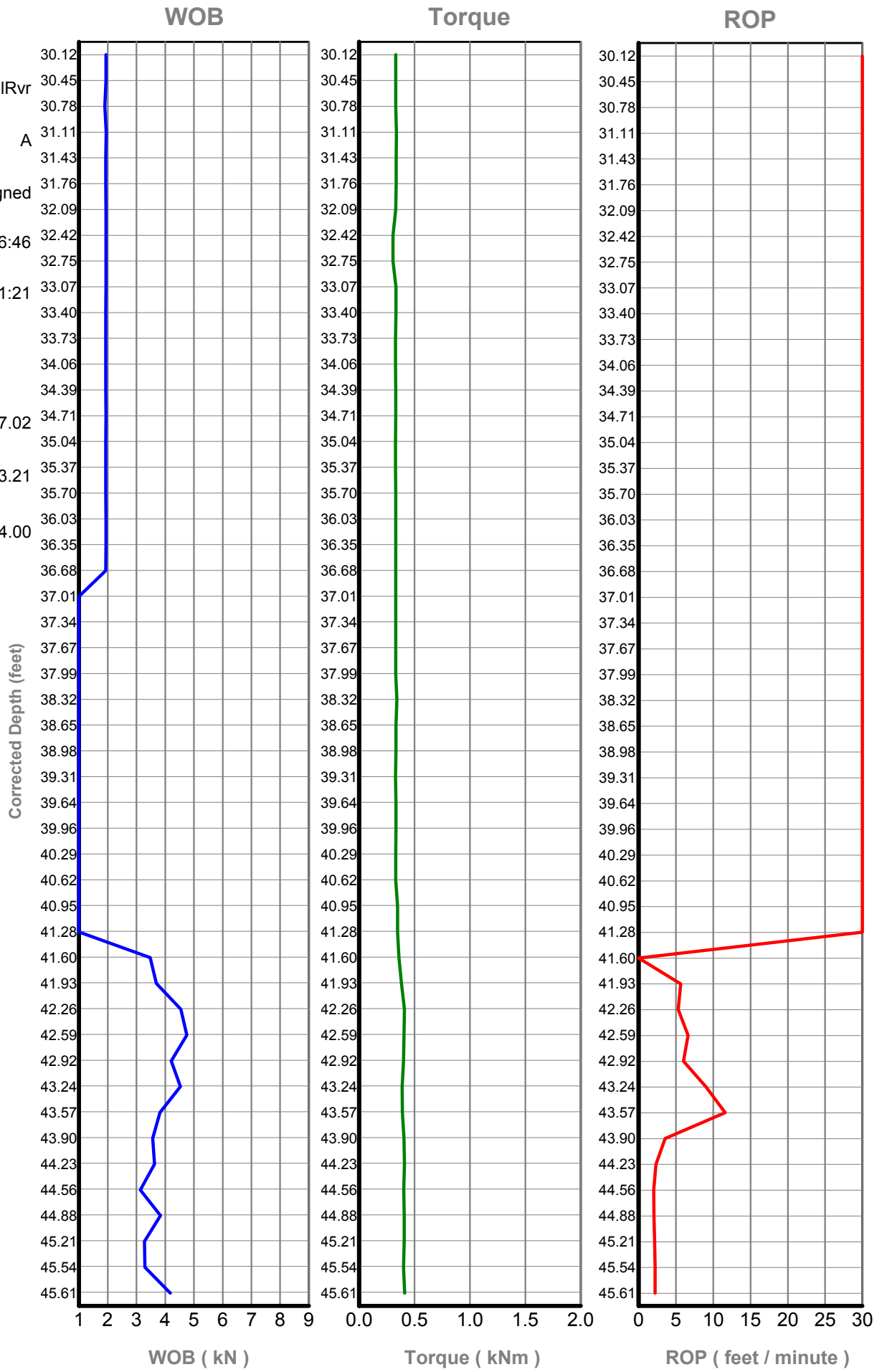
**End Date:**
4/26/2015 23:31:21

**Operator Note:**
'4 4.1 b Auto Complete'

**Northing:**
365,887.02

**Easting:**
249,353.21

**Tide (feet):**
4.00



## Hole: H70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 10:01:42 | 33.46 | 30.06 | 997 | 0.40 | 0.32 | 54.5 |
| 4/25/2015 10:01:42 | 33.79 | 30.39 | 997 | 0.40 | 0.32 | 54.5 |
| 4/25/2015 10:01:42 | 34.12 | 30.72 | 998 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:43 | 34.45 | 31.05 | 998 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:43 | 34.78 | 31.38 | 998 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:43 | 35.11 | 31.71 | 1,008 | 0.33 | 0.33 | 55.1 |
| 4/25/2015 10:01:44 | 35.43 | 32.03 | 999 | 0.33 | 0.33 | 54.6 |
| 4/25/2015 10:01:44 | 35.76 | 32.36 | 999 | 0.33 | 0.33 | 54.6 |
| 4/25/2015 10:01:44 | 36.09 | 32.69 | 1,028 | 0.33 | 0.32 | 56.2 |
| 4/25/2015 10:01:45 | 36.42 | 33.02 | 992 | 0.34 | 0.32 | 54.2 |
| 4/25/2015 10:01:45 | 36.75 | 33.35 | 992 | 0.32 | 0.32 | 54.2 |
| 4/25/2015 10:01:46 | 37.07 | 33.67 | 992 | 0.32 | 0.32 | 54.2 |
| 4/25/2015 10:01:46 | 37.40 | 34.00 | 1,002 | 0.33 | 0.32 | 54.8 |
| 4/25/2015 10:01:47 | 37.73 | 34.33 | 998 | 0.33 | 0.32 | 54.6 |
| 4/25/2015 10:01:47 | 38.06 | 34.66 | 998 | 0.33 | 0.32 | 54.6 |
| 4/25/2015 10:01:47 | 38.39 | 34.99 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 10:01:48 | 38.71 | 35.31 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 10:01:48 | 39.04 | 35.64 | 977 | 0.33 | 0.31 | 53.4 |
| 4/25/2015 10:01:48 | 39.37 | 35.97 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 10:01:49 | 39.70 | 36.30 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 10:01:49 | 40.03 | 36.63 | 995 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 10:01:49 | 40.35 | 36.95 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:01:50 | 40.68 | 37.28 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:01:50 | 41.01 | 37.61 | 989 | 0.33 | 0.32 | 54.1 |
| 4/25/2015 10:01:50 | 41.34 | 37.94 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/25/2015 10:01:51 | 41.67 | 38.27 | 1,010 | 0.33 | 0.32 | 55.3 |
| 4/25/2015 10:01:51 | 41.99 | 38.59 | 1,010 | 0.33 | 0.32 | 55.3 |
| 4/25/2015 10:01:51 | 42.32 | 38.92 | 1,010 | 0.33 | 0.32 | 55.3 |
| 4/25/2015 10:01:52 | 42.65 | 39.25 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 10:01:52 | 42.98 | 39.58 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 10:01:52 | 43.31 | 39.91 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 10:01:53 | 43.64 | 40.24 | 1,016 | 0.34 | 0.32 | 55.6 |
| 4/25/2015 10:01:53 | 43.96 | 40.56 | 1,016 | 0.34 | 0.32 | 55.6 |
| 4/25/2015 10:01:53 | 44.29 | 40.89 | 1,013 | 0.33 | 0.32 | 55.4 |
| 4/25/2015 10:01:54 | 44.62 | 41.22 | 993 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:01:54 | 44.95 | 41.55 | 993 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:01:55 | 45.28 | 41.88 | 993 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:01:55 | 45.60 | 42.20 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:55 | 45.93 | 42.53 | 997 | 0.32 | 0.32 | 54.5 |
| 4/25/2015 10:01:56 | 46.26 | 42.86 | 997 | 0.32 | 0.32 | 54.5 |
| 4/25/2015 10:01:56 | 46.59 | 43.19 | 1,013 | 0.33 | 0.32 | 55.4 |
| 4/25/2015 10:01:56 | 46.92 | 43.52 | 996 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:57 | 47.24 | 43.84 | 996 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 10:01:57 | 47.57 | 44.17 | 999 | 0.33 | 0.32 | 54.6 |
| 4/25/2015 10:01:58 | 47.90 | 44.50 | 1,004 | 0.25 | 0.32 | 54.9 |
| 4/25/2015 10:01:58 | 48.23 | 44.83 | 1,004 | 0.25 | 0.32 | 54.9 |
| 4/25/2015 10:01:58 | 48.56 | 45.16 | 997 | 0.33 | 0.31 | 54.5 |
| 4/25/2015 10:01:59 | 48.88 | 45.48 | 992 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:01:59 | 49.21 | 45.81 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 10:02:00 | 49.54 | 46.14 | 1,001 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 10:02:00 | 49.87 | 46.47 | 992 | 0.32 | 0.32 | 54.3 |
| 4/25/2015 10:02:00 | 50.20 | 46.80 | 992 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:02:01 | 50.53 | 47.13 | 992 | 0.33 | 0.32 | 54.3 |
| 4/25/2015 10:02:01 | 50.85 | 47.45 | 995 | 0.32 | 0.31 | 54.4 |
| 4/25/2015 10:02:01 | 51.18 | 47.78 | 983 | 0.31 | 0.36 | 53.7 |
| 4/25/2015 10:02:10 | 51.51 | 48.11 | 3 | 2.47 | 0.34 | 0.2 |
| 4/25/2015 10:02:11 | 51.84 | 48.44 | 149 | 2.90 | 0.37 | 8.1 |
| 4/25/2015 10:02:12 | 52.17 | 48.77 | 317 | 4.38 | 0.38 | 17.3 |
| 4/25/2015 10:02:15 | 52.49 | 49.09 | 46 | 3.81 | 0.37 | 2.5 |
| 4/25/2015 10:02:20 | 52.82 | 49.42 | 122 | 5.63 | 0.38 | 6.6 |
| 4/25/2015 10:02:21 | 53.15 | 49.75 | 205 | 2.69 | 0.36 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 10:02:21 | 53.48 | 50.08 | 255 | 2.92 | 0.36 | 14.0 |
| 4/25/2015 | 10:02:28 | 53.81 | 50.41 | 50 | 3.18 | 0.37 | 2.7 |
| 4/25/2015 | 10:02:29 | 54.13 | 50.73 | 223 | 2.84 | 0.36 | 12.2 |
| 4/25/2015 | 10:02:30 | 54.46 | 51.06 | 317 | 3.11 | 0.37 | 17.3 |
| 4/25/2015 | 10:02:34 | 54.79 | 51.39 | 8 | 3.10 | 0.37 | 0.5 |
| 4/25/2015 | 10:02:36 | 55.12 | 51.72 | 162 | 3.62 | 0.39 | 8.8 |
| 4/25/2015 | 10:02:41 | 55.45 | 52.05 | 70 | 3.45 | 0.40 | 3.8 |
| 4/25/2015 | 10:02:44 | 55.77 | 52.37 | 58 | 3.40 | 0.38 | 3.2 |
| 4/25/2015 | 10:02:46 | 56.10 | 52.70 | 172 | 3.48 | 0.38 | 9.4 |
| 4/25/2015 | 10:02:47 | 56.43 | 53.03 | 228 | 3.20 | 0.38 | 12.5 |
| 4/25/2015 | 10:02:53 | 56.76 | 53.36 | 57 | 3.48 | 0.37 | 3.1 |
| 4/25/2015 | 10:02:55 | 57.09 | 53.69 | 222 | 3.43 | 0.38 | 12.2 |
| 4/25/2015 | 10:02:56 | 57.41 | 54.01 | 277 | 3.14 | 0.38 | 15.1 |
| 4/25/2015 | 10:03:01 | 57.74 | 54.34 | 58 | 3.05 | 0.39 | 3.2 |
| 4/25/2015 | 10:03:04 | 58.07 | 54.67 | 116 | 3.26 | 0.39 | 6.3 |
| 4/25/2015 | 10:03:12 | 58.40 | 55.00 | 46 | 3.22 | 0.39 | 2.5 |
| 4/25/2015 | 10:03:14 | 58.61 | 55.21 | 81 | 3.86 | 0.39 | 4.4 |

## H70 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 10:00:08

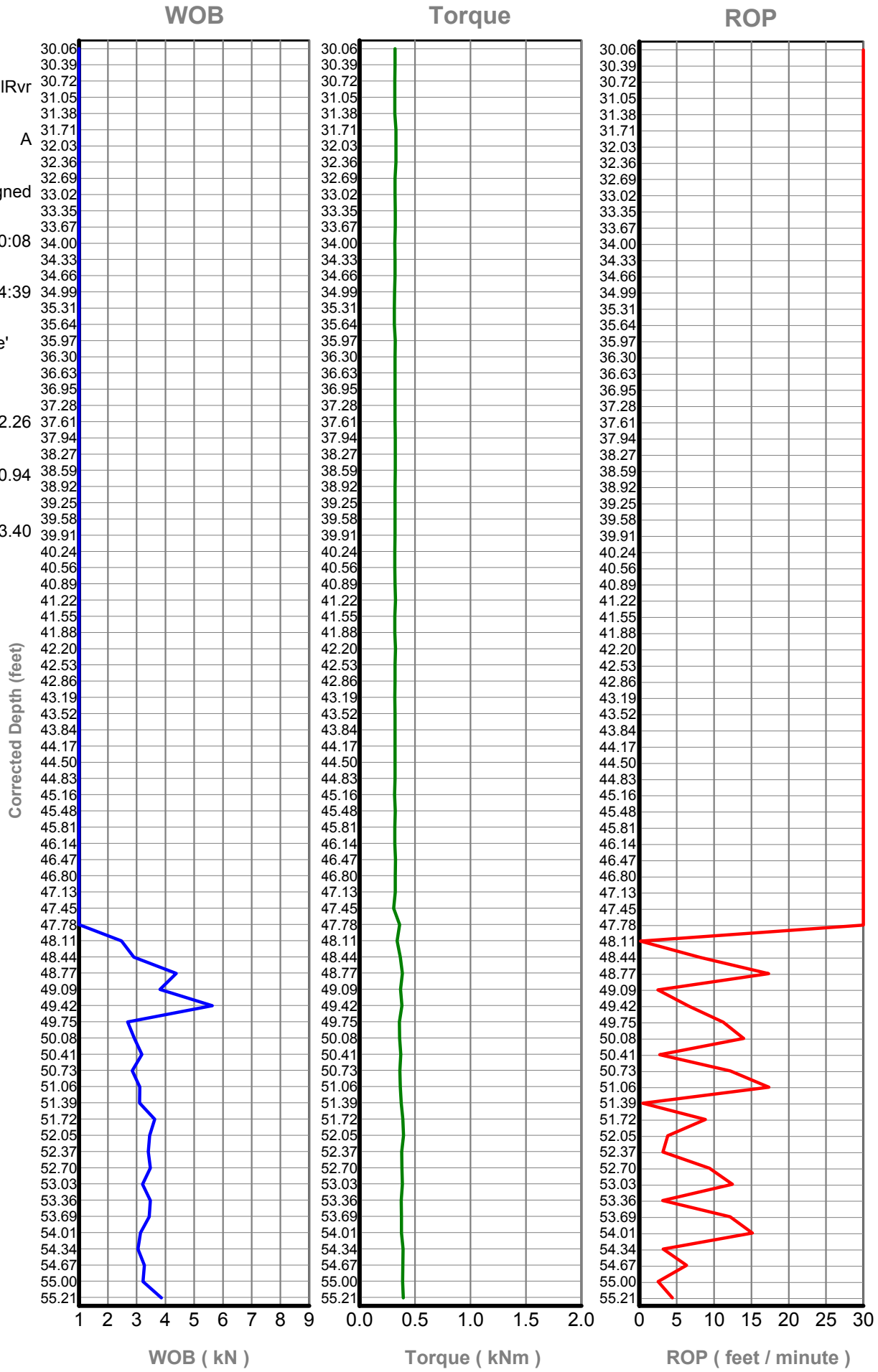
**End Date:**
4/25/2015 10:04:39

**Operator Note:**
'3.4 3.6 b Auto Complete'

**Northing:**
366,822.26

**Easting:**
250,630.94

**Tide (feet):**
3.40



## Hole: H71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:56:25 | 33.79 | 30.29 | 1,004 | 0.33 | 0.32 | 54.9 |
| 4/25/2015 9:56:25 | 34.12 | 30.62 | 1,007 | 0.33 | 0.32 | 55.1 |
| 4/25/2015 9:56:26 | 34.45 | 30.95 | 1,007 | 0.33 | 0.32 | 55.1 |
| 4/25/2015 9:56:26 | 34.78 | 31.28 | 1,024 | 0.32 | 0.32 | 56.0 |
| 4/25/2015 9:56:26 | 35.11 | 31.61 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/25/2015 9:56:27 | 35.43 | 31.93 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/25/2015 9:56:27 | 35.76 | 32.26 | 1,003 | 0.33 | 0.32 | 54.8 |
| 4/25/2015 9:56:27 | 36.09 | 32.59 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:56:28 | 36.42 | 32.92 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:56:28 | 36.75 | 33.25 | 994 | 0.33 | 0.32 | 54.4 |
| 4/25/2015 9:56:28 | 37.07 | 33.57 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:29 | 37.40 | 33.90 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:29 | 37.73 | 34.23 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:29 | 38.06 | 34.56 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:30 | 38.39 | 34.89 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:30 | 38.71 | 35.21 | 992 | 0.33 | 0.32 | 54.2 |
| 4/25/2015 9:56:30 | 39.04 | 35.54 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:56:31 | 39.37 | 35.87 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:56:31 | 39.70 | 36.20 | 997 | 0.33 | 0.32 | 54.5 |
| 4/25/2015 9:56:31 | 40.03 | 36.53 | 1,009 | 0.33 | 0.32 | 55.2 |
| 4/25/2015 9:56:32 | 40.35 | 36.85 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/25/2015 9:56:32 | 40.68 | 37.18 | 1,009 | 0.32 | 0.32 | 55.2 |
| 4/25/2015 9:56:32 | 41.01 | 37.51 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 9:56:33 | 41.34 | 37.84 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 9:56:33 | 41.67 | 38.17 | 1,006 | 0.33 | 0.32 | 55.0 |
| 4/25/2015 9:56:33 | 41.99 | 38.49 | 1,006 | 0.33 | 0.34 | 55.0 |
| 4/25/2015 9:56:34 | 42.32 | 38.82 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:56:35 | 42.65 | 39.15 | 1,000 | 0.33 | 0.32 | 54.7 |
| 4/25/2015 9:56:34 | 42.98 | 39.48 | 977 | 0.41 | 0.32 | 53.4 |
| 4/25/2015 9:56:35 | 43.31 | 39.81 | 977 | 0.34 | 0.32 | 53.4 |
| 4/25/2015 9:56:36 | 43.64 | 40.14 | 982 | 0.38 | 0.32 | 53.7 |
| 4/25/2015 9:56:36 | 43.96 | 40.46 | 982 | 0.38 | 0.32 | 53.7 |
| 4/25/2015 9:56:36 | 44.29 | 40.79 | 976 | 0.36 | 0.32 | 53.4 |
| 4/25/2015 9:56:37 | 44.62 | 41.12 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:56:37 | 44.95 | 41.45 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:56:37 | 45.28 | 41.78 | 961 | 0.43 | 0.33 | 52.6 |
| 4/25/2015 9:56:38 | 45.60 | 42.10 | 973 | 0.35 | 0.33 | 53.2 |
| 4/25/2015 9:56:38 | 45.93 | 42.43 | 957 | 0.37 | 0.32 | 52.3 |
| 4/25/2015 9:56:39 | 46.26 | 42.76 | 957 | 0.37 | 0.32 | 52.3 |
| 4/25/2015 9:56:39 | 46.59 | 43.09 | 951 | 0.35 | 0.32 | 52.0 |
| 4/25/2015 9:56:39 | 46.92 | 43.42 | 948 | 0.34 | 0.32 | 51.8 |
| 4/25/2015 9:56:40 | 47.24 | 43.74 | 948 | 0.34 | 0.32 | 51.8 |
| 4/25/2015 9:56:40 | 47.57 | 44.07 | 954 | 0.32 | 0.32 | 52.2 |
| 4/25/2015 9:56:40 | 47.90 | 44.40 | 960 | 0.32 | 0.32 | 52.5 |
| 4/25/2015 9:56:41 | 48.23 | 44.73 | 968 | 0.24 | 0.32 | 53.0 |
| 4/25/2015 9:56:41 | 48.56 | 45.06 | 968 | 0.24 | 0.32 | 53.0 |
| 4/25/2015 9:56:41 | 48.88 | 45.38 | 971 | 0.33 | 0.32 | 53.1 |
| 4/25/2015 9:56:42 | 49.21 | 45.71 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:56:42 | 49.54 | 46.04 | 980 | 0.33 | 0.32 | 53.6 |
| 4/25/2015 9:56:42 | 49.87 | 46.37 | 971 | 0.27 | 0.32 | 53.1 |
| 4/25/2015 9:56:43 | 50.20 | 46.70 | 963 | 0.43 | 0.37 | 52.6 |
| 4/25/2015 9:56:50 | 50.53 | 47.03 | 91 | 2.93 | 0.36 | 5.0 |
| 4/25/2015 9:56:53 | 50.85 | 47.35 | 0 | 5.04 | 0.34 | 0.0 |
| 4/25/2015 9:56:54 | 51.18 | 47.68 | 166 | 3.28 | 0.35 | 9.1 |
| 4/25/2015 9:56:58 | 51.51 | 48.01 | 0 | 4.87 | 0.37 | 0.0 |
| 4/25/2015 9:57:00 | 51.84 | 48.34 | 180 | 3.15 | 0.39 | 9.8 |
| 4/25/2015 9:57:03 | 52.17 | 48.67 | 98 | 3.26 | 0.37 | 5.4 |
| 4/25/2015 9:57:09 | 52.49 | 48.99 | 0 | 3.33 | 0.39 | 0.0 |
| 4/25/2015 9:57:18 | 52.82 | 49.32 | 52 | 3.09 | 0.40 | 2.8 |
| 4/25/2015 9:57:24 | 53.15 | 49.65 | 58 | 3.15 | 0.39 | 3.2 |
| 4/25/2015 9:57:30 | 53.48 | 49.98 | 70 | 3.39 | 0.39 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 9:57:32 | 53.81 | 50.31 | 124 | 3.10 | 0.39 | 6.8 |
| 4/25/2015 | 9:57:41 | 54.13 | 50.63 | 72 | 3.20 | 0.38 | 4.0 |
| 4/25/2015 | 9:57:45 | 54.46 | 50.96 | 84 | 3.49 | 0.39 | 4.6 |
| 4/25/2015 | 9:57:51 | 54.79 | 51.29 | 69 | 3.31 | 0.39 | 3.8 |
| 4/25/2015 | 9:57:55 | 55.12 | 51.62 | 79 | 3.35 | 0.39 | 4.3 |
| 4/25/2015 | 9:58:01 | 55.45 | 51.95 | 61 | 3.26 | 0.39 | 3.4 |
| 4/25/2015 | 9:58:05 | 55.77 | 52.27 | 78 | 3.54 | 0.39 | 4.3 |
| 4/25/2015 | 9:58:08 | 56.10 | 52.60 | 123 | 3.36 | 0.38 | 6.7 |
| 4/25/2015 | 9:58:12 | 56.43 | 52.93 | 101 | 3.31 | 0.39 | 5.5 |
| 4/25/2015 | 9:58:15 | 56.76 | 53.26 | 99 | 3.09 | 0.39 | 5.4 |
| 4/25/2015 | 9:58:19 | 57.09 | 53.59 | 92 | 3.42 | 0.39 | 5.0 |
| 4/25/2015 | 9:58:24 | 57.41 | 53.91 | 76 | 3.11 | 0.40 | 4.1 |
| 4/25/2015 | 9:58:28 | 57.74 | 54.24 | 90 | 3.03 | 0.39 | 4.9 |
| 4/25/2015 | 9:58:31 | 58.07 | 54.57 | 128 | 2.99 | 0.39 | 7.0 |
| 4/25/2015 | 9:58:33 | 58.40 | 54.90 | 150 | 2.90 | 0.38 | 8.2 |
| 4/25/2015 | 9:58:34 | 58.73 | 55.23 | 232 | 2.84 | 0.37 | 12.7 |
| 4/25/2015 | 9:58:34 | 58.91 | 55.41 | 232 | 2.84 | 0.37 | 12.7 |

## H71 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/25/2015 9:54:34

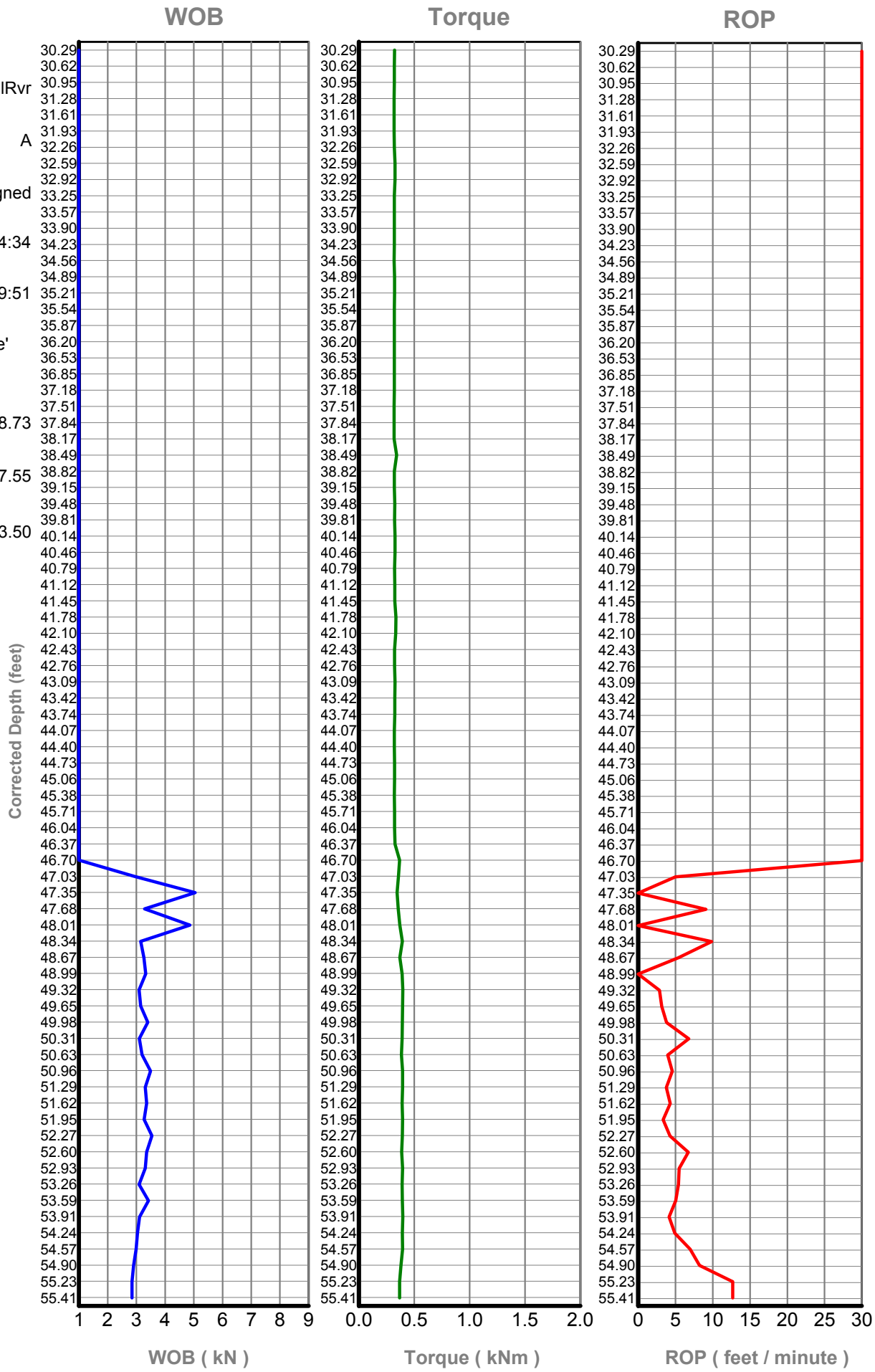
**End Date:**
4/25/2015 9:59:51

**Operator Note:**
'3.5 3.6 b Auto Complete'

**Northing:**
366,858.73

**Easting:**
250,677.55

**Tide (feet):**
3.50



## Hole: H72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/25/2015 9:59:28 | 33.79 | 30.29 | 572 | 1.84 | 0.31 | 31.3 |
| 4/25/2015 9:59:29 | 34.12 | 30.62 | 575 | 1.84 | 0.31 | 31.5 |
| 4/25/2015 9:59:30 | 34.45 | 30.95 | 572 | 1.82 | 0.31 | 31.3 |
| 4/25/2015 9:59:30 | 34.78 | 31.28 | 575 | 1.84 | 0.31 | 31.5 |
| 4/25/2015 9:59:31 | 35.11 | 31.61 | 569 | 1.85 | 0.30 | 31.1 |
| 4/25/2015 9:59:31 | 35.43 | 31.93 | 572 | 1.82 | 0.31 | 31.3 |
| 4/25/2015 9:59:32 | 35.76 | 32.26 | 569 | 1.83 | 0.31 | 31.1 |
| 4/25/2015 9:59:33 | 36.09 | 32.59 | 570 | 1.81 | 0.31 | 31.1 |
| 4/25/2015 9:59:33 | 36.42 | 32.92 | 572 | 1.83 | 0.31 | 31.3 |
| 4/25/2015 9:59:34 | 36.75 | 33.25 | 572 | 1.84 | 0.31 | 31.3 |
| 4/25/2015 9:59:35 | 37.07 | 33.57 | 575 | 1.82 | 0.31 | 31.5 |
| 4/25/2015 9:59:35 | 37.40 | 33.90 | 560 | 1.82 | 0.31 | 30.6 |
| 4/25/2015 9:59:36 | 37.73 | 34.23 | 570 | 1.82 | 0.31 | 31.2 |
| 4/25/2015 9:59:37 | 38.06 | 34.56 | 574 | 1.83 | 0.31 | 31.4 |
| 4/25/2015 9:59:37 | 38.39 | 34.89 | 558 | 1.83 | 0.30 | 30.5 |
| 4/25/2015 9:59:38 | 38.71 | 35.21 | 558 | 1.83 | 0.31 | 30.5 |
| 4/25/2015 9:59:38 | 39.04 | 35.54 | 564 | 1.83 | 0.31 | 30.8 |
| 4/25/2015 9:59:39 | 39.37 | 35.87 | 569 | 1.83 | 0.31 | 31.1 |
| 4/25/2015 9:59:40 | 39.70 | 36.20 | 569 | 1.83 | 0.31 | 31.1 |
| 4/25/2015 9:59:40 | 40.03 | 36.53 | 568 | 1.83 | 0.31 | 31.1 |
| 4/25/2015 9:59:41 | 40.35 | 36.85 | 567 | 1.85 | 0.31 | 31.0 |
| 4/25/2015 9:59:41 | 40.68 | 37.18 | 567 | 1.83 | 0.31 | 31.0 |
| 4/25/2015 9:59:42 | 41.01 | 37.51 | 561 | 1.84 | 0.30 | 30.7 |
| 4/25/2015 9:59:43 | 41.34 | 37.84 | 580 | 1.82 | 0.31 | 31.7 |
| 4/25/2015 9:59:43 | 41.67 | 38.17 | 577 | 1.84 | 0.31 | 31.5 |
| 4/25/2015 9:59:44 | 41.99 | 38.49 | 576 | 1.85 | 0.31 | 31.5 |
| 4/25/2015 9:59:44 | 42.32 | 38.82 | 587 | 1.81 | 0.31 | 32.1 |
| 4/25/2015 9:59:46 | 42.65 | 39.15 | 564 | 1.82 | 0.31 | 30.8 |
| 4/25/2015 9:59:46 | 42.98 | 39.48 | 567 | 1.83 | 0.31 | 31.0 |
| 4/25/2015 9:59:47 | 43.31 | 39.81 | 565 | 1.83 | 0.31 | 30.9 |
| 4/25/2015 9:59:47 | 43.64 | 40.14 | 561 | 1.82 | 0.31 | 30.7 |
| 4/25/2015 9:59:48 | 43.96 | 40.46 | 555 | 1.85 | 0.31 | 30.3 |
| 4/25/2015 9:59:49 | 44.29 | 40.79 | 572 | 1.84 | 0.31 | 31.3 |
| 4/25/2015 9:59:49 | 44.62 | 41.12 | 569 | 1.82 | 0.31 | 31.1 |
| 4/25/2015 9:59:50 | 44.95 | 41.45 | 566 | 1.85 | 0.31 | 31.0 |
| 4/25/2015 9:59:50 | 45.28 | 41.78 | 566 | 1.81 | 0.31 | 31.0 |
| 4/25/2015 9:59:51 | 45.60 | 42.10 | 566 | 1.85 | 0.31 | 31.0 |
| 4/25/2015 9:59:52 | 45.93 | 42.43 | 564 | 1.84 | 0.30 | 30.8 |
| 4/25/2015 9:59:52 | 46.26 | 42.76 | 564 | 1.84 | 0.31 | 30.8 |
| 4/25/2015 9:59:53 | 46.59 | 43.09 | 558 | 1.82 | 0.31 | 30.5 |
| 4/25/2015 9:59:53 | 46.92 | 43.42 | 558 | 1.83 | 0.30 | 30.5 |
| 4/25/2015 9:59:54 | 47.24 | 43.74 | 560 | 1.83 | 0.30 | 30.6 |
| 4/25/2015 9:59:55 | 47.57 | 44.07 | 557 | 1.84 | 0.30 | 30.5 |
| 4/25/2015 10:00:16 | 47.90 | 44.40 | 34 | 1.81 | 1.14 | 1.9 |
| 4/25/2015 10:00:19 | 48.23 | 44.73 | 176 | 1.85 | 1.17 | 9.6 |
| 4/25/2015 10:00:21 | 48.56 | 45.06 | 185 | 1.85 | 1.13 | 10.1 |
| 4/25/2015 10:00:23 | 48.88 | 45.38 | 164 | 1.84 | 1.14 | 9.0 |
| 4/25/2015 10:00:24 | 49.21 | 45.71 | 172 | 1.82 | 1.12 | 9.4 |
| 4/25/2015 10:00:26 | 49.54 | 46.04 | 185 | 1.84 | 1.12 | 10.1 |
| 4/25/2015 10:00:30 | 49.87 | 46.37 | 127 | 1.86 | 1.14 | 6.9 |
| 4/25/2015 10:00:33 | 50.20 | 46.70 | 109 | 1.87 | 1.14 | 6.0 |
| 4/25/2015 10:00:37 | 50.53 | 47.03 | 92 | 1.88 | 1.18 | 5.0 |
| 4/25/2015 10:00:41 | 50.85 | 47.35 | 86 | 1.85 | 1.15 | 4.7 |
| 4/25/2015 10:00:44 | 51.18 | 47.68 | 137 | 1.83 | 1.12 | 7.5 |
| 4/25/2015 10:00:46 | 51.51 | 48.01 | 132 | 1.86 | 1.14 | 7.2 |
| 4/25/2015 10:00:49 | 51.84 | 48.34 | 130 | 1.85 | 1.18 | 7.1 |
| 4/25/2015 10:00:52 | 52.17 | 48.67 | 154 | 1.84 | 1.11 | 8.4 |
| 4/25/2015 10:00:54 | 52.49 | 48.99 | 148 | 1.85 | 1.12 | 8.1 |
| 4/25/2015 10:00:57 | 52.82 | 49.32 | 132 | 1.82 | 1.15 | 7.2 |
| 4/25/2015 10:00:59 | 53.15 | 49.65 | 144 | 1.87 | 1.17 | 7.9 |
| 4/25/2015 10:01:02 | 53.48 | 49.98 | 154 | 1.83 | 1.09 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/25/2015 | 10:01:16 | 53.81 | 50.31 | 25 | 1.87 | 1.25 | 1.3 |
| 4/25/2015 | 10:01:18 | 54.13 | 50.63 | 152 | 1.82 | 1.10 | 8.3 |
| 4/25/2015 | 10:01:20 | 54.46 | 50.96 | 225 | 1.83 | 1.10 | 12.3 |
| 4/25/2015 | 10:01:22 | 54.79 | 51.29 | 193 | 1.87 | 1.10 | 10.6 |
| 4/25/2015 | 10:01:24 | 55.12 | 51.62 | 155 | 1.85 | 1.11 | 8.5 |
| 4/25/2015 | 10:01:27 | 55.45 | 51.95 | 115 | 1.88 | 1.14 | 6.3 |
| 4/25/2015 | 10:01:32 | 55.77 | 52.27 | 73 | 1.90 | 1.19 | 4.0 |
| 4/25/2015 | 10:01:36 | 56.10 | 52.60 | 84 | 1.87 | 1.16 | 4.6 |
| 4/25/2015 | 10:01:40 | 56.43 | 52.93 | 97 | 1.87 | 1.20 | 5.3 |
| 4/25/2015 | 10:01:44 | 56.76 | 53.26 | 101 | 1.87 | 1.19 | 5.5 |
| 4/25/2015 | 10:01:47 | 57.09 | 53.59 | 96 | 1.90 | 1.24 | 5.2 |
| 4/25/2015 | 10:01:51 | 57.36 | 53.86 | 82 | 1.87 | 1.23 | 4.5 |

## H72 - Summary

**Pattern Number:**
AreaH_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/25/2015 9:57:46

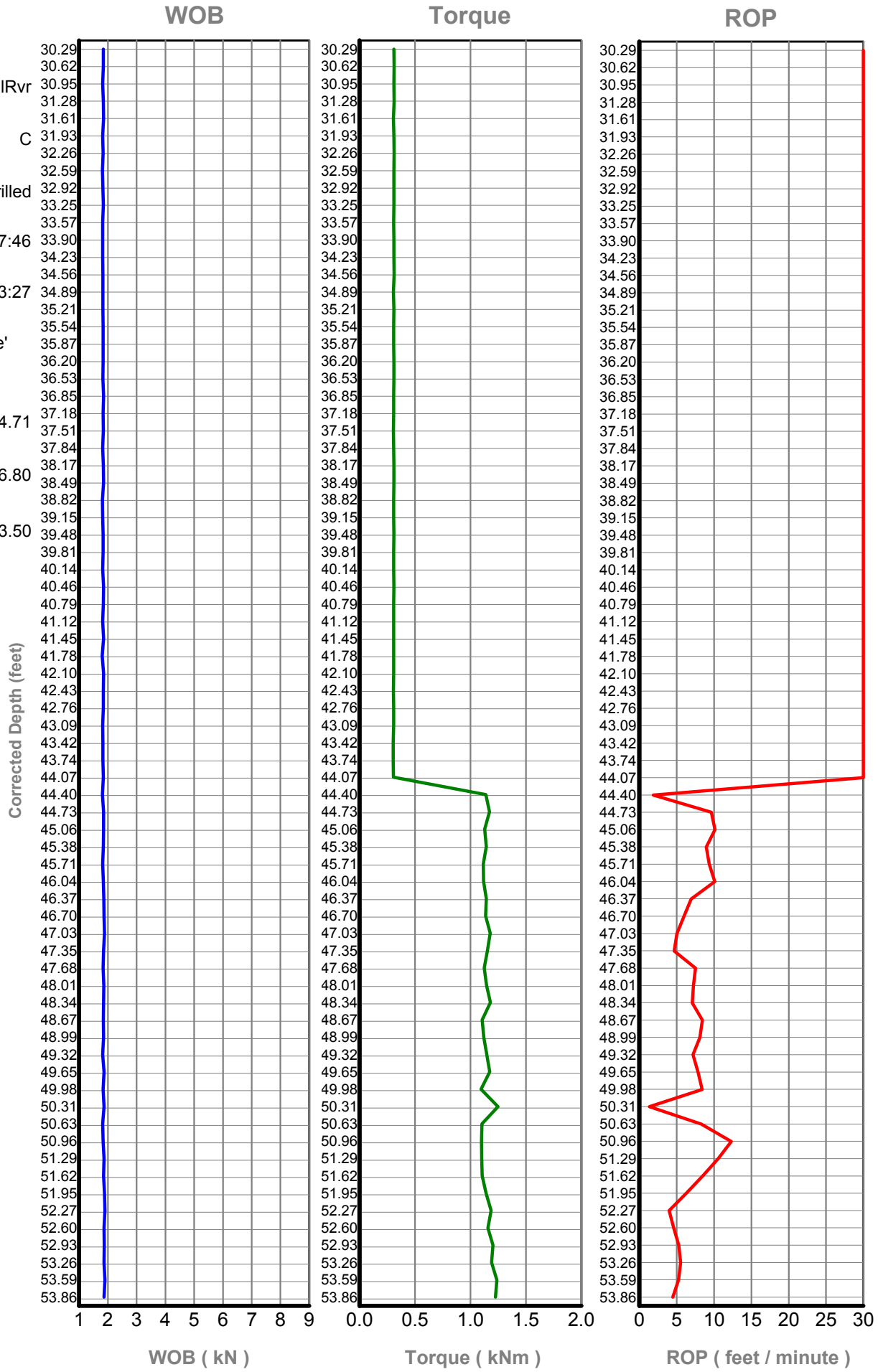
**End Date:**
4/25/2015 10:03:27

**Operator Note:**
'3.5 3.7 c Auto Complete'

**Northing:**
366,904.71

**Easting:**
250,736.80

**Tide (feet):**
3.50



## Hole: H73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:30:35 | 32.81 | 30.21 | 883 | 0.20 | 0.33 | 48.3 |
| 4/24/2015 21:30:35 | 33.14 | 30.54 | 857 | 0.20 | 0.33 | 46.8 |
| 4/24/2015 21:30:35 | 33.46 | 30.86 | 871 | 0.22 | 0.32 | 47.6 |
| 4/24/2015 21:30:36 | 33.79 | 31.19 | 871 | 0.20 | 0.33 | 47.6 |
| 4/24/2015 21:30:36 | 34.12 | 31.52 | 871 | 0.20 | 0.33 | 47.6 |
| 4/24/2015 21:30:36 | 34.45 | 31.85 | 907 | 0.21 | 0.33 | 49.6 |
| 4/24/2015 21:30:37 | 34.78 | 32.18 | 903 | 0.22 | 0.33 | 49.4 |
| 4/24/2015 21:30:38 | 35.11 | 32.51 | 877 | 0.20 | 0.33 | 48.0 |
| 4/24/2015 21:30:38 | 35.43 | 32.83 | 877 | 0.20 | 0.33 | 48.0 |
| 4/24/2015 21:30:39 | 35.76 | 33.16 | 877 | 0.20 | 0.33 | 48.0 |
| 4/24/2015 21:30:39 | 36.09 | 33.49 | 894 | 0.20 | 0.32 | 48.9 |
| 4/24/2015 21:30:39 | 36.42 | 33.82 | 892 | 0.20 | 0.33 | 48.8 |
| 4/24/2015 21:30:40 | 36.75 | 34.15 | 889 | 0.20 | 0.32 | 48.6 |
| 4/24/2015 21:30:40 | 37.07 | 34.47 | 889 | 0.20 | 0.32 | 48.6 |
| 4/24/2015 21:30:40 | 37.40 | 34.80 | 898 | 0.20 | 0.33 | 49.1 |
| 4/24/2015 21:30:41 | 37.73 | 35.13 | 900 | 0.21 | 0.32 | 49.2 |
| 4/24/2015 21:30:41 | 38.06 | 35.46 | 900 | 0.16 | 0.33 | 49.2 |
| 4/24/2015 21:30:42 | 38.39 | 35.79 | 900 | 0.16 | 0.33 | 49.2 |
| 4/24/2015 21:30:42 | 38.71 | 36.11 | 913 | 0.20 | 0.33 | 49.9 |
| 4/24/2015 21:30:42 | 39.04 | 36.44 | 921 | 0.20 | 0.32 | 50.4 |
| 4/24/2015 21:30:43 | 39.37 | 36.77 | 927 | 0.20 | 0.32 | 50.7 |
| 4/24/2015 21:30:43 | 39.70 | 37.10 | 927 | 0.20 | 0.32 | 50.7 |
| 4/24/2015 21:30:43 | 40.03 | 37.43 | 925 | 0.20 | 0.33 | 50.6 |
| 4/24/2015 21:30:44 | 40.35 | 37.75 | 939 | 0.20 | 0.33 | 51.4 |
| 4/24/2015 21:30:44 | 40.68 | 38.08 | 929 | 0.20 | 0.32 | 50.8 |
| 4/24/2015 21:30:45 | 41.01 | 38.41 | 929 | 0.20 | 0.32 | 50.8 |
| 4/24/2015 21:30:45 | 41.34 | 38.74 | 910 | 0.20 | 0.32 | 49.8 |
| 4/24/2015 21:30:45 | 41.67 | 39.07 | 910 | 0.20 | 0.33 | 49.8 |
| 4/24/2015 21:30:46 | 41.99 | 39.39 | 910 | 0.20 | 0.33 | 49.8 |
| 4/24/2015 21:30:46 | 42.32 | 39.72 | 910 | 0.20 | 0.33 | 49.8 |
| 4/24/2015 21:30:46 | 42.65 | 40.05 | 907 | 0.20 | 0.32 | 49.6 |
| 4/24/2015 21:30:47 | 42.98 | 40.38 | 892 | 0.20 | 0.32 | 48.8 |
| 4/24/2015 21:30:48 | 43.31 | 40.71 | 892 | 0.20 | 0.32 | 48.8 |
| 4/24/2015 21:30:48 | 43.64 | 41.04 | 892 | 0.20 | 0.32 | 48.8 |
| 4/24/2015 21:30:48 | 43.96 | 41.36 | 899 | 0.20 | 0.33 | 49.2 |
| 4/24/2015 21:30:49 | 44.29 | 41.69 | 899 | 0.20 | 0.33 | 49.2 |
| 4/24/2015 21:30:49 | 44.62 | 42.02 | 923 | 0.20 | 0.33 | 50.5 |
| 4/24/2015 21:30:50 | 44.95 | 42.35 | 923 | 0.20 | 0.33 | 50.5 |
| 4/24/2015 21:30:50 | 45.28 | 42.68 | 909 | 0.20 | 0.33 | 49.7 |
| 4/24/2015 21:30:50 | 45.60 | 43.00 | 900 | 0.20 | 0.33 | 49.2 |
| 4/24/2015 21:30:51 | 45.93 | 43.33 | 896 | 0.20 | 0.32 | 49.0 |
| 4/24/2015 21:30:51 | 46.26 | 43.66 | 896 | 0.20 | 0.32 | 49.0 |
| 4/24/2015 21:30:51 | 46.59 | 43.99 | 896 | 0.20 | 0.33 | 49.0 |
| 4/24/2015 21:30:52 | 46.92 | 44.32 | 908 | 0.20 | 0.33 | 49.6 |
| 4/24/2015 21:30:52 | 47.24 | 44.64 | 879 | 0.20 | 0.24 | 48.1 |
| 4/24/2015 21:30:53 | 47.57 | 44.97 | 879 | 0.20 | 0.24 | 48.1 |
| 4/24/2015 21:30:53 | 47.90 | 45.30 | 885 | 0.20 | 0.32 | 48.4 |
| 4/24/2015 21:30:53 | 48.23 | 45.63 | 882 | 0.20 | 0.33 | 48.2 |
| 4/24/2015 21:30:54 | 48.56 | 45.96 | 896 | 0.23 | 0.34 | 49.0 |
| 4/24/2015 21:30:54 | 48.88 | 46.28 | 896 | 0.23 | 0.34 | 49.0 |
| 4/24/2015 21:31:11 | 49.21 | 46.61 | 0 | 3.18 | 0.37 | 0.0 |
| 4/24/2015 21:31:13 | 49.54 | 46.94 | 157 | 3.21 | 0.38 | 8.6 |
| 4/24/2015 21:31:18 | 49.87 | 47.27 | 43 | 4.81 | 0.39 | 2.4 |
| 4/24/2015 21:31:23 | 50.20 | 47.60 | 67 | 3.59 | 0.39 | 3.7 |
| 4/24/2015 21:31:27 | 50.53 | 47.93 | 91 | 3.61 | 0.40 | 5.0 |
| 4/24/2015 21:31:31 | 50.85 | 48.25 | 87 | 4.06 | 0.40 | 4.7 |
| 4/24/2015 21:31:35 | 51.18 | 48.58 | 88 | 3.70 | 0.40 | 4.8 |
| 4/24/2015 21:31:39 | 51.51 | 48.91 | 87 | 3.83 | 0.40 | 4.8 |
| 4/24/2015 21:31:45 | 51.84 | 49.24 | 61 | 3.48 | 0.40 | 3.3 |
| 4/24/2015 21:31:50 | 52.17 | 49.57 | 72 | 3.45 | 0.40 | 4.0 |
| 4/24/2015 21:31:55 | 52.49 | 49.89 | 75 | 3.84 | 0.40 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/24/2015 | 21:34:53 | 52.82 | 50.22 | 5 | 4.07 | 0.40 | 0.2 |
| 4/24/2015 | 21:34:58 | 53.15 | 50.55 | 66 | 3.67 | 0.40 | 3.6 |
| 4/24/2015 | 21:35:02 | 53.48 | 50.88 | 81 | 3.56 | 0.41 | 4.4 |
| 4/24/2015 | 21:35:07 | 53.81 | 51.21 | 72 | 3.09 | 0.40 | 4.0 |
| 4/24/2015 | 21:35:12 | 54.13 | 51.53 | 72 | 3.48 | 0.39 | 3.9 |
| 4/24/2015 | 21:35:17 | 54.46 | 51.86 | 78 | 3.37 | 0.40 | 4.3 |
| 4/24/2015 | 21:35:22 | 54.79 | 52.19 | 76 | 3.49 | 0.40 | 4.2 |
| 4/24/2015 | 21:35:27 | 55.12 | 52.52 | 67 | 3.10 | 0.40 | 3.7 |
| 4/24/2015 | 21:35:32 | 55.45 | 52.85 | 69 | 3.09 | 0.40 | 3.7 |
| 4/24/2015 | 21:35:37 | 55.77 | 53.17 | 68 | 3.11 | 0.40 | 3.7 |
| 4/24/2015 | 21:35:42 | 56.10 | 53.50 | 74 | 3.22 | 0.40 | 4.1 |
| 4/24/2015 | 21:35:47 | 56.43 | 53.83 | 73 | 3.34 | 0.40 | 4.0 |
| 4/24/2015 | 21:35:52 | 56.76 | 54.16 | 72 | 3.80 | 0.40 | 4.0 |
| 4/24/2015 | 21:35:59 | 57.09 | 54.49 | 72 | 3.28 | 0.39 | 3.9 |
| 4/24/2015 | 21:36:05 | 57.41 | 54.81 | 67 | 3.28 | 0.40 | 3.7 |
| 4/24/2015 | 21:36:09 | 57.74 | 55.14 | 75 | 3.79 | 0.40 | 4.1 |

## H73 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 21:24:27

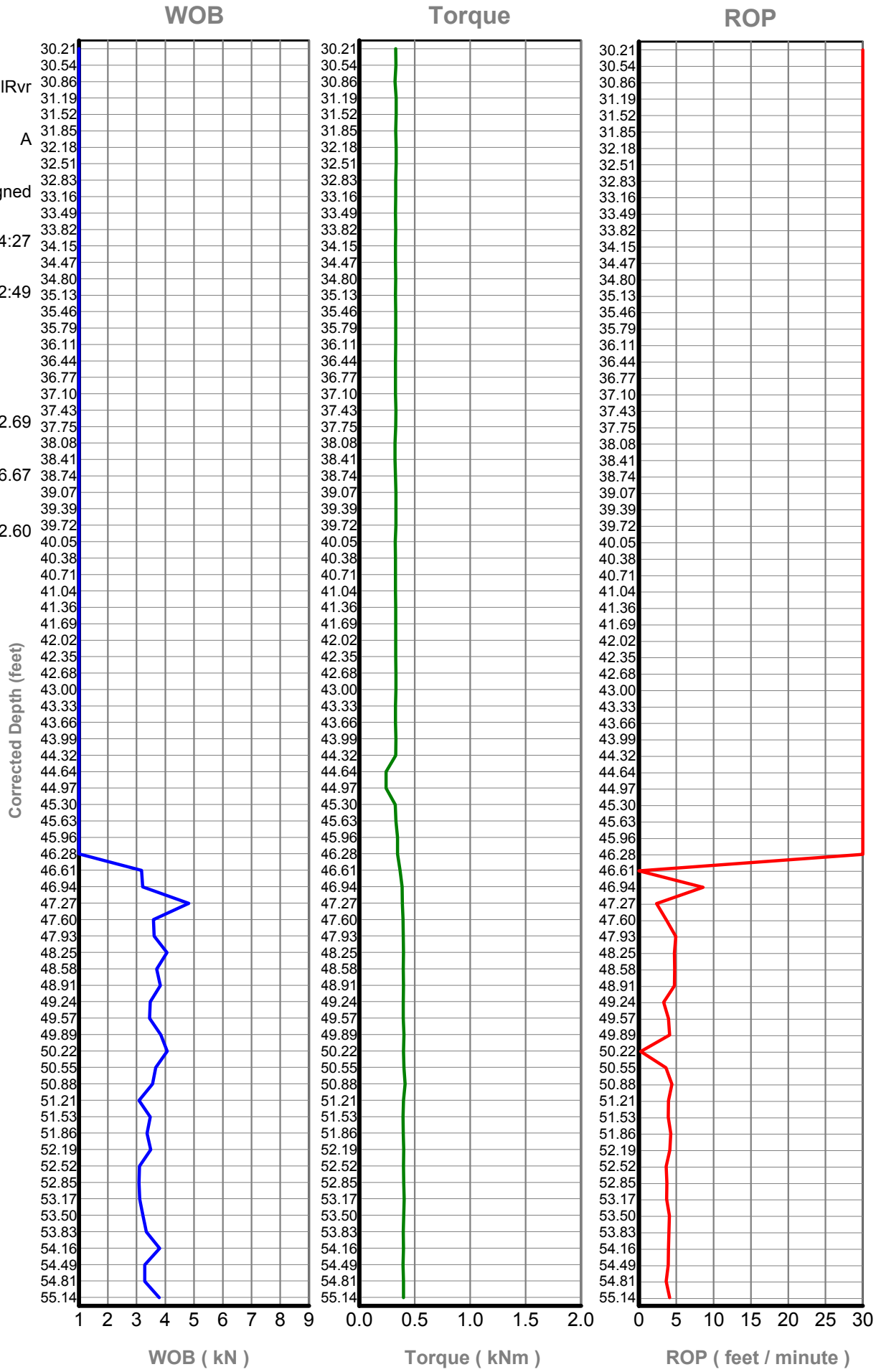
**End Date:**
4/24/2015 21:52:49

**Operator Note:**
'2.6 '0.9 2.7 b Auto Complete'

**Northing:**
366,952.69

**Easting:**
250,806.67

**Tide (feet):**
2.60



## Hole: H74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:35:58 | 32.48 | 30.08 | 714 | 1.96 | 0.15 | 39.0 |
| 4/24/2015 21:35:58 | 32.81 | 30.41 | 714 | 1.97 | 0.16 | 39.0 |
| 4/24/2015 21:35:59 | 33.14 | 30.74 | 714 | 1.98 | 0.16 | 39.0 |
| 4/24/2015 21:35:59 | 33.46 | 31.06 | 711 | 2.00 | 0.16 | 38.9 |
| 4/24/2015 21:36:00 | 33.79 | 31.39 | 714 | 1.98 | 0.16 | 39.0 |
| 4/24/2015 21:36:00 | 34.12 | 31.72 | 711 | 1.97 | 0.16 | 38.9 |
| 4/24/2015 21:36:01 | 34.45 | 32.05 | 714 | 1.95 | 0.15 | 39.0 |
| 4/24/2015 21:36:02 | 34.78 | 32.38 | 711 | 1.98 | 0.15 | 38.9 |
| 4/24/2015 21:36:02 | 35.11 | 32.71 | 703 | 1.95 | 0.16 | 38.4 |
| 4/24/2015 21:36:03 | 35.43 | 33.03 | 695 | 1.98 | 0.15 | 38.0 |
| 4/24/2015 21:36:03 | 35.76 | 33.36 | 695 | 1.97 | 0.15 | 38.0 |
| 4/24/2015 21:36:04 | 36.09 | 33.69 | 706 | 1.98 | 0.15 | 38.6 |
| 4/24/2015 21:36:04 | 36.42 | 34.02 | 699 | 1.98 | 0.16 | 38.2 |
| 4/24/2015 21:36:05 | 36.75 | 34.35 | 691 | 1.98 | 0.15 | 37.8 |
| 4/24/2015 21:36:05 | 37.07 | 34.67 | 691 | 1.98 | 0.16 | 37.8 |
| 4/24/2015 21:36:06 | 37.40 | 35.00 | 703 | 1.98 | 0.15 | 38.4 |
| 4/24/2015 21:36:06 | 37.73 | 35.33 | 715 | 2.21 | 0.16 | 39.1 |
| 4/24/2015 21:36:07 | 38.06 | 35.66 | 704 | 1.98 | 0.16 | 38.5 |
| 4/24/2015 21:36:07 | 38.39 | 35.99 | 707 | 1.98 | 0.15 | 38.7 |
| 4/24/2015 21:36:08 | 38.71 | 36.31 | 716 | 1.97 | 0.15 | 39.2 |
| 4/24/2015 21:36:08 | 39.04 | 36.64 | 708 | 1.98 | 0.15 | 38.7 |
| 4/24/2015 21:36:09 | 39.37 | 36.97 | 704 | 1.96 | 0.16 | 38.5 |
| 4/24/2015 21:36:09 | 39.70 | 37.30 | 711 | 1.95 | 0.16 | 38.9 |
| 4/24/2015 21:36:10 | 40.03 | 37.63 | 708 | 1.96 | 0.16 | 38.7 |
| 4/24/2015 21:36:10 | 40.35 | 37.95 | 711 | 1.97 | 0.15 | 38.9 |
| 4/24/2015 21:36:11 | 40.68 | 38.28 | 711 | 1.97 | 0.16 | 38.9 |
| 4/24/2015 21:36:11 | 41.01 | 38.61 | 711 | 1.98 | 0.16 | 38.9 |
| 4/24/2015 21:36:12 | 41.34 | 38.94 | 708 | 1.97 | 0.15 | 38.7 |
| 4/24/2015 21:36:13 | 41.67 | 39.27 | 708 | 1.97 | 0.15 | 38.7 |
| 4/24/2015 21:36:13 | 41.99 | 39.59 | 708 | 1.97 | 0.16 | 38.7 |
| 4/24/2015 21:36:13 | 42.32 | 39.92 | 704 | 1.97 | 0.16 | 38.5 |
| 4/24/2015 21:36:14 | 42.65 | 40.25 | 708 | 1.97 | 0.16 | 38.7 |
| 4/24/2015 21:36:14 | 42.98 | 40.58 | 708 | 1.95 | 0.16 | 38.7 |
| 4/24/2015 21:36:15 | 43.31 | 40.91 | 708 | 1.97 | 0.16 | 38.7 |
| 4/24/2015 21:36:15 | 43.64 | 41.24 | 705 | 1.97 | 0.16 | 38.6 |
| 4/24/2015 21:36:16 | 43.96 | 41.56 | 713 | 1.98 | 0.16 | 39.0 |
| 4/24/2015 21:36:16 | 44.29 | 41.89 | 705 | 1.97 | 0.16 | 38.6 |
| 4/24/2015 21:36:17 | 44.62 | 42.22 | 705 | 1.97 | 0.16 | 38.6 |
| 4/24/2015 21:36:17 | 44.95 | 42.55 | 701 | 1.98 | 0.16 | 38.4 |
| 4/24/2015 21:36:18 | 45.28 | 42.88 | 708 | 1.96 | 0.16 | 38.7 |
| 4/24/2015 21:36:18 | 45.60 | 43.20 | 698 | 1.98 | 0.16 | 38.2 |
| 4/24/2015 21:36:19 | 45.93 | 43.53 | 701 | 1.98 | 0.16 | 38.3 |
| 4/24/2015 21:36:19 | 46.26 | 43.86 | 702 | 1.97 | 0.15 | 38.4 |
| 4/24/2015 21:36:20 | 46.59 | 44.19 | 705 | 1.97 | 0.16 | 38.6 |
| 4/24/2015 21:36:20 | 46.92 | 44.52 | 702 | 1.97 | 0.16 | 38.4 |
| 4/24/2015 21:36:21 | 47.24 | 44.84 | 705 | 1.97 | 0.16 | 38.6 |
| 4/24/2015 21:36:21 | 47.57 | 45.17 | 709 | 1.98 | 0.16 | 38.8 |
| 4/24/2015 21:36:22 | 47.90 | 45.50 | 708 | 1.97 | 0.16 | 38.7 |
| 4/24/2015 21:36:38 | 48.23 | 45.83 | 0 | 2.00 | 1.03 | 0.0 |
| 4/24/2015 21:36:43 | 48.56 | 46.16 | 0 | 2.01 | 1.33 | 0.0 |
| 4/24/2015 21:36:55 | 48.88 | 46.48 | 29 | 2.02 | 1.19 | 1.6 |
| 4/24/2015 21:37:09 | 49.21 | 46.81 | 26 | 2.00 | 1.18 | 1.4 |
| 4/24/2015 21:37:16 | 49.39 | 46.99 | 26 | 2.02 | 1.20 | 1.4 |

## H74 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 21:34:26

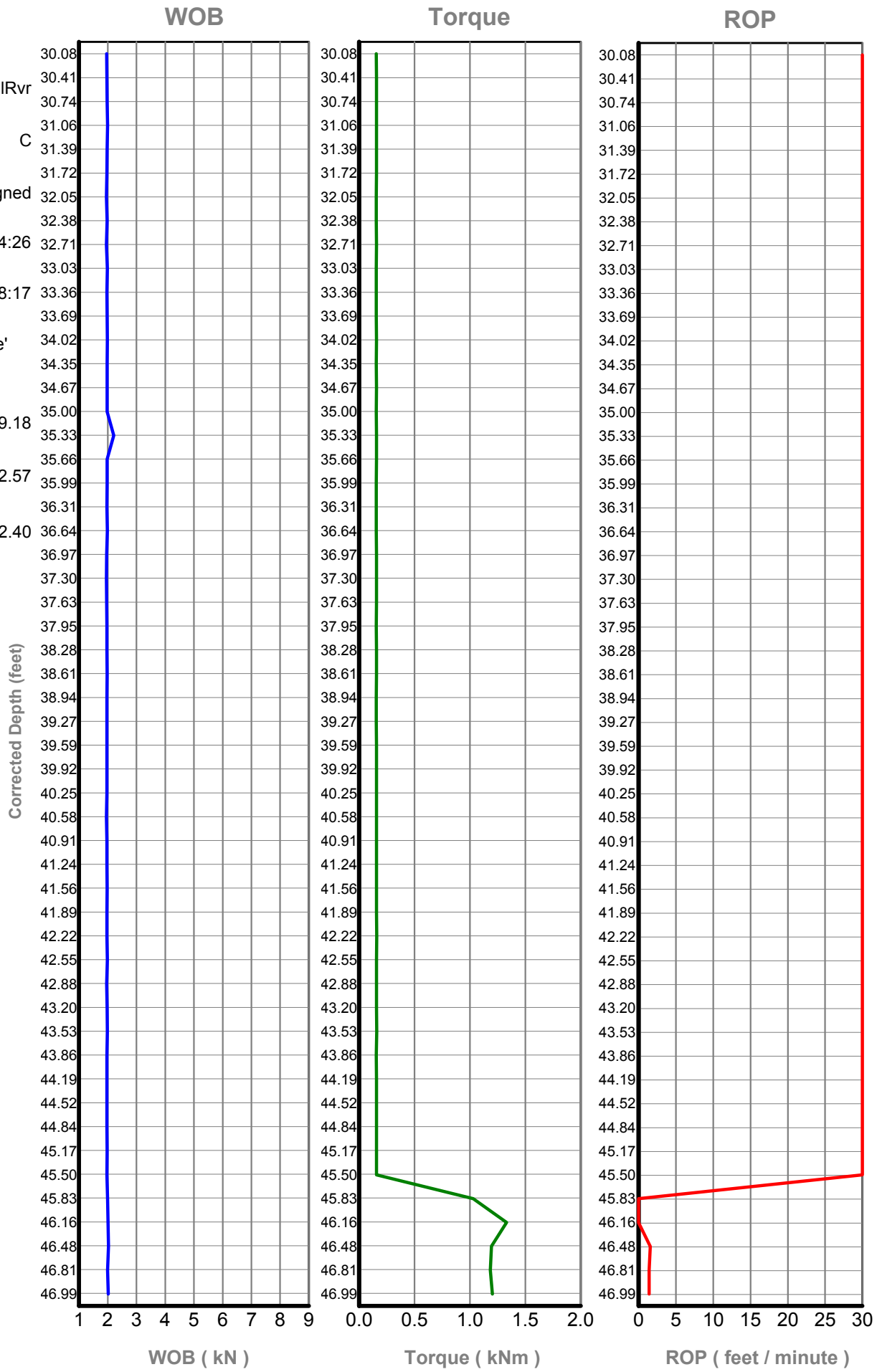
**End Date:**
4/24/2015 21:38:17

**Operator Note:**
'2.4 2.6 c Auto Complete'

**Northing:**
366,989.18

**Easting:**
250,852.57

**Tide (feet):**
2.40



## Hole: H75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 21:27:32 | 32.81 | 30.21 | 649 | 2.00 | 0.16 | 35.5 |
| 4/24/2015 21:27:32 | 33.14 | 30.54 | 646 | 1.97 | 0.16 | 35.3 |
| 4/24/2015 21:27:33 | 33.46 | 30.86 | 665 | 1.97 | 0.16 | 36.4 |
| 4/24/2015 21:27:33 | 33.79 | 31.19 | 653 | 1.98 | 0.15 | 35.7 |
| 4/24/2015 21:27:34 | 34.12 | 31.52 | 653 | 1.96 | 0.15 | 35.7 |
| 4/24/2015 21:27:34 | 34.45 | 31.85 | 652 | 1.99 | 0.16 | 35.7 |
| 4/24/2015 21:27:35 | 34.78 | 32.18 | 656 | 1.98 | 0.16 | 35.9 |
| 4/24/2015 21:27:35 | 35.11 | 32.51 | 643 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 21:27:36 | 35.43 | 32.83 | 643 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 21:27:36 | 35.76 | 33.16 | 651 | 1.98 | 0.17 | 35.6 |
| 4/24/2015 21:27:37 | 36.09 | 33.49 | 650 | 1.97 | 0.15 | 35.5 |
| 4/24/2015 21:27:38 | 36.42 | 33.82 | 647 | 1.97 | 0.15 | 35.4 |
| 4/24/2015 21:27:38 | 36.75 | 34.15 | 661 | 1.72 | 0.15 | 36.2 |
| 4/24/2015 21:27:39 | 37.07 | 34.47 | 656 | 1.98 | 0.15 | 35.9 |
| 4/24/2015 21:27:39 | 37.40 | 34.80 | 657 | 2.00 | 0.15 | 35.9 |
| 4/24/2015 21:27:40 | 37.73 | 35.13 | 653 | 1.98 | 0.15 | 35.7 |
| 4/24/2015 21:27:40 | 38.06 | 35.46 | 653 | 1.98 | 0.15 | 35.7 |
| 4/24/2015 21:27:41 | 38.39 | 35.79 | 646 | 1.99 | 0.15 | 35.3 |
| 4/24/2015 21:27:41 | 38.71 | 36.11 | 651 | 1.98 | 0.15 | 35.6 |
| 4/24/2015 21:27:42 | 39.04 | 36.44 | 651 | 1.98 | 0.15 | 35.6 |
| 4/24/2015 21:27:43 | 39.37 | 36.77 | 651 | 1.99 | 0.16 | 35.6 |
| 4/24/2015 21:27:43 | 39.70 | 37.10 | 654 | 1.97 | 0.15 | 35.7 |
| 4/24/2015 21:27:44 | 40.03 | 37.43 | 661 | 1.98 | 0.15 | 36.2 |
| 4/24/2015 21:27:44 | 40.35 | 37.75 | 650 | 1.97 | 0.16 | 35.6 |
| 4/24/2015 21:27:45 | 40.68 | 38.08 | 650 | 1.98 | 0.15 | 35.5 |
| 4/24/2015 21:27:45 | 41.01 | 38.41 | 639 | 1.97 | 0.16 | 34.9 |
| 4/24/2015 21:27:46 | 41.34 | 38.74 | 639 | 1.97 | 0.15 | 34.9 |
| 4/24/2015 21:27:46 | 41.67 | 39.07 | 644 | 1.97 | 0.16 | 35.2 |
| 4/24/2015 21:27:47 | 41.99 | 39.39 | 644 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 21:27:47 | 42.32 | 39.72 | 647 | 1.98 | 0.16 | 35.4 |
| 4/24/2015 21:27:48 | 42.65 | 40.05 | 656 | 1.98 | 0.16 | 35.8 |
| 4/24/2015 21:27:49 | 42.98 | 40.38 | 648 | 1.99 | 0.16 | 35.4 |
| 4/24/2015 21:27:49 | 43.31 | 40.71 | 650 | 1.98 | 0.16 | 35.6 |
| 4/24/2015 21:27:50 | 43.64 | 41.04 | 650 | 2.00 | 0.16 | 35.6 |
| 4/24/2015 21:27:50 | 43.96 | 41.36 | 648 | 1.99 | 0.15 | 35.4 |
| 4/24/2015 21:27:51 | 44.29 | 41.69 | 650 | 1.98 | 0.15 | 35.6 |
| 4/24/2015 21:27:51 | 44.62 | 42.02 | 653 | 1.98 | 0.15 | 35.7 |
| 4/24/2015 21:27:52 | 44.95 | 42.35 | 647 | 1.97 | 0.15 | 35.4 |
| 4/24/2015 21:27:53 | 45.28 | 42.68 | 647 | 1.98 | 0.16 | 35.4 |
| 4/24/2015 21:27:53 | 45.60 | 43.00 | 644 | 1.98 | 0.15 | 35.2 |
| 4/24/2015 21:27:54 | 45.93 | 43.33 | 650 | 1.97 | 0.15 | 35.6 |
| 4/24/2015 21:27:54 | 46.26 | 43.66 | 648 | 1.98 | 0.15 | 35.4 |
| 4/24/2015 21:27:55 | 46.59 | 43.99 | 650 | 1.98 | 0.16 | 35.6 |
| 4/24/2015 21:27:55 | 46.92 | 44.32 | 648 | 1.98 | 0.15 | 35.4 |
| 4/24/2015 21:27:56 | 47.24 | 44.64 | 653 | 1.98 | 0.16 | 35.7 |
| 4/24/2015 21:27:56 | 47.57 | 44.97 | 647 | 1.98 | 0.15 | 35.4 |
| 4/24/2015 21:28:38 | 47.90 | 45.30 | 0 | 1.99 | 1.00 | 0.0 |
| 4/24/2015 21:28:39 | 48.23 | 45.63 | 211 | 2.02 | 0.99 | 11.6 |
| 4/24/2015 21:28:40 | 48.56 | 45.96 | 326 | 2.00 | 1.07 | 17.8 |
| 4/24/2015 21:28:45 | 48.88 | 46.28 | 0 | 2.01 | 0.98 | 0.0 |
| 4/24/2015 21:28:54 | 49.21 | 46.61 | 0 | 1.97 | 1.31 | 0.0 |
| 4/24/2015 21:28:57 | 49.54 | 46.94 | 136 | 2.01 | 1.15 | 7.4 |
| 4/24/2015 21:28:58 | 49.87 | 47.27 | 221 | 2.00 | 1.16 | 12.1 |
| 4/24/2015 21:29:11 | 50.20 | 47.60 | 60 | 2.00 | 1.14 | 3.3 |
| 4/24/2015 21:29:19 | 50.53 | 47.93 | 47 | 2.01 | 1.19 | 2.6 |
| 4/24/2015 21:29:26 | 50.85 | 48.25 | 46 | 1.99 | 1.12 | 2.5 |
| 4/24/2015 21:29:32 | 51.14 | 48.54 | 45 | 2.00 | 1.17 | 2.5 |

## H75 - Summary

**Pattern Number:**
AreaH_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 21:25:44

**End Date:**
4/24/2015 21:31:12

**Operator Note:**
'2.6 2.7 c Auto Complete'

**Northing:**
367,035.55

**Easting:**
250,911.46

**Tide (feet):**
2.60



## Hole: H76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:48:43 | 31.82 | 30.12 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 9:48:44 | 32.15 | 30.45 | 867 | 0.35 | 0.32 | 47.4 |
| 4/24/2015 9:48:44 | 32.48 | 30.78 | 861 | 0.34 | 0.33 | 47.1 |
| 4/24/2015 9:48:45 | 32.81 | 31.11 | 861 | 0.35 | 0.32 | 47.1 |
| 4/24/2015 9:48:45 | 33.14 | 31.44 | 861 | 0.35 | 0.32 | 47.1 |
| 4/24/2015 9:48:45 | 33.46 | 31.76 | 861 | 0.35 | 0.32 | 47.1 |
| 4/24/2015 9:48:46 | 33.79 | 32.09 | 873 | 0.36 | 0.32 | 47.7 |
| 4/24/2015 9:48:46 | 34.12 | 32.42 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 9:48:47 | 34.45 | 32.75 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 9:48:47 | 34.78 | 33.08 | 879 | 0.38 | 0.32 | 48.1 |
| 4/24/2015 9:48:48 | 35.11 | 33.41 | 879 | 0.38 | 0.32 | 48.1 |
| 4/24/2015 9:48:48 | 35.43 | 33.73 | 880 | 0.36 | 0.32 | 48.1 |
| 4/24/2015 9:48:49 | 35.76 | 34.06 | 875 | 0.35 | 0.32 | 47.8 |
| 4/24/2015 9:48:49 | 36.09 | 34.39 | 875 | 0.35 | 0.32 | 47.8 |
| 4/24/2015 9:48:49 | 36.42 | 34.72 | 880 | 0.36 | 0.32 | 48.1 |
| 4/24/2015 9:48:50 | 36.75 | 35.05 | 878 | 0.36 | 0.33 | 48.0 |
| 4/24/2015 9:48:50 | 37.07 | 35.37 | 877 | 0.36 | 0.33 | 48.0 |
| 4/24/2015 9:48:51 | 37.40 | 35.70 | 877 | 0.36 | 0.33 | 48.0 |
| 4/24/2015 9:48:51 | 37.73 | 36.03 | 876 | 0.36 | 0.32 | 47.9 |
| 4/24/2015 9:48:51 | 38.06 | 36.36 | 876 | 0.36 | 0.32 | 47.9 |
| 4/24/2015 9:48:52 | 38.39 | 36.69 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 9:48:52 | 38.71 | 37.01 | 876 | 0.36 | 0.33 | 47.9 |
| 4/24/2015 9:48:53 | 39.04 | 37.34 | 876 | 0.36 | 0.33 | 47.9 |
| 4/24/2015 9:48:53 | 39.37 | 37.67 | 877 | 0.36 | 0.32 | 47.9 |
| 4/24/2015 9:48:53 | 39.70 | 38.00 | 882 | 0.35 | 0.32 | 48.2 |
| 4/24/2015 9:48:54 | 40.03 | 38.33 | 882 | 0.36 | 0.32 | 48.2 |
| 4/24/2015 9:48:54 | 40.35 | 38.65 | 882 | 0.36 | 0.32 | 48.2 |
| 4/24/2015 9:48:54 | 40.68 | 38.98 | 885 | 0.36 | 0.32 | 48.4 |
| 4/24/2015 9:48:55 | 41.01 | 39.31 | 885 | 0.36 | 0.32 | 48.4 |
| 4/24/2015 9:48:55 | 41.34 | 39.64 | 889 | 0.35 | 0.33 | 48.6 |
| 4/24/2015 9:48:56 | 41.67 | 39.97 | 886 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 9:48:56 | 41.99 | 40.29 | 886 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 9:48:56 | 42.32 | 40.62 | 881 | 0.35 | 0.32 | 48.2 |
| 4/24/2015 9:48:57 | 42.65 | 40.95 | 881 | 0.35 | 0.32 | 48.2 |
| 4/24/2015 9:48:58 | 42.98 | 41.28 | 884 | 0.35 | 0.32 | 48.3 |
| 4/24/2015 9:48:58 | 43.31 | 41.61 | 884 | 0.35 | 0.32 | 48.3 |
| 4/24/2015 9:48:58 | 43.64 | 41.94 | 880 | 0.35 | 0.33 | 48.1 |
| 4/24/2015 9:48:59 | 43.96 | 42.26 | 885 | 0.35 | 0.32 | 48.4 |
| 4/24/2015 9:48:59 | 44.29 | 42.59 | 882 | 0.35 | 0.32 | 48.2 |
| 4/24/2015 9:49:00 | 44.62 | 42.92 | 882 | 0.35 | 0.33 | 48.2 |
| 4/24/2015 9:49:00 | 44.95 | 43.25 | 882 | 0.35 | 0.33 | 48.2 |
| 4/24/2015 9:49:00 | 45.28 | 43.58 | 848 | 0.35 | 0.32 | 46.4 |
| 4/24/2015 9:49:01 | 45.60 | 43.90 | 848 | 0.35 | 0.32 | 46.4 |
| 4/24/2015 9:49:01 | 45.93 | 44.23 | 865 | 0.35 | 0.32 | 47.3 |
| 4/24/2015 9:49:02 | 46.26 | 44.56 | 865 | 0.35 | 0.32 | 47.3 |
| 4/24/2015 9:49:02 | 46.59 | 44.89 | 868 | 0.35 | 0.33 | 47.5 |
| 4/24/2015 9:49:02 | 46.92 | 45.22 | 870 | 0.35 | 0.32 | 47.6 |
| 4/24/2015 9:49:03 | 47.24 | 45.54 | 864 | 0.36 | 0.33 | 47.3 |
| 4/24/2015 9:49:03 | 47.57 | 45.87 | 878 | 0.33 | 0.37 | 48.0 |
| 4/24/2015 9:49:14 | 47.90 | 46.20 | 44 | 4.07 | 0.38 | 2.4 |
| 4/24/2015 9:49:16 | 48.23 | 46.53 | 145 | 4.49 | 0.39 | 7.9 |
| 4/24/2015 9:49:22 | 48.56 | 46.86 | 52 | 4.08 | 0.40 | 2.8 |
| 4/24/2015 9:49:29 | 48.88 | 47.18 | 61 | 4.63 | 0.40 | 3.3 |
| 4/24/2015 9:49:36 | 49.21 | 47.51 | 46 | 3.60 | 0.39 | 2.5 |
| 4/24/2015 9:49:43 | 49.52 | 47.82 | 55 | 4.09 | 0.39 | 3.0 |

## H76 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:47:03

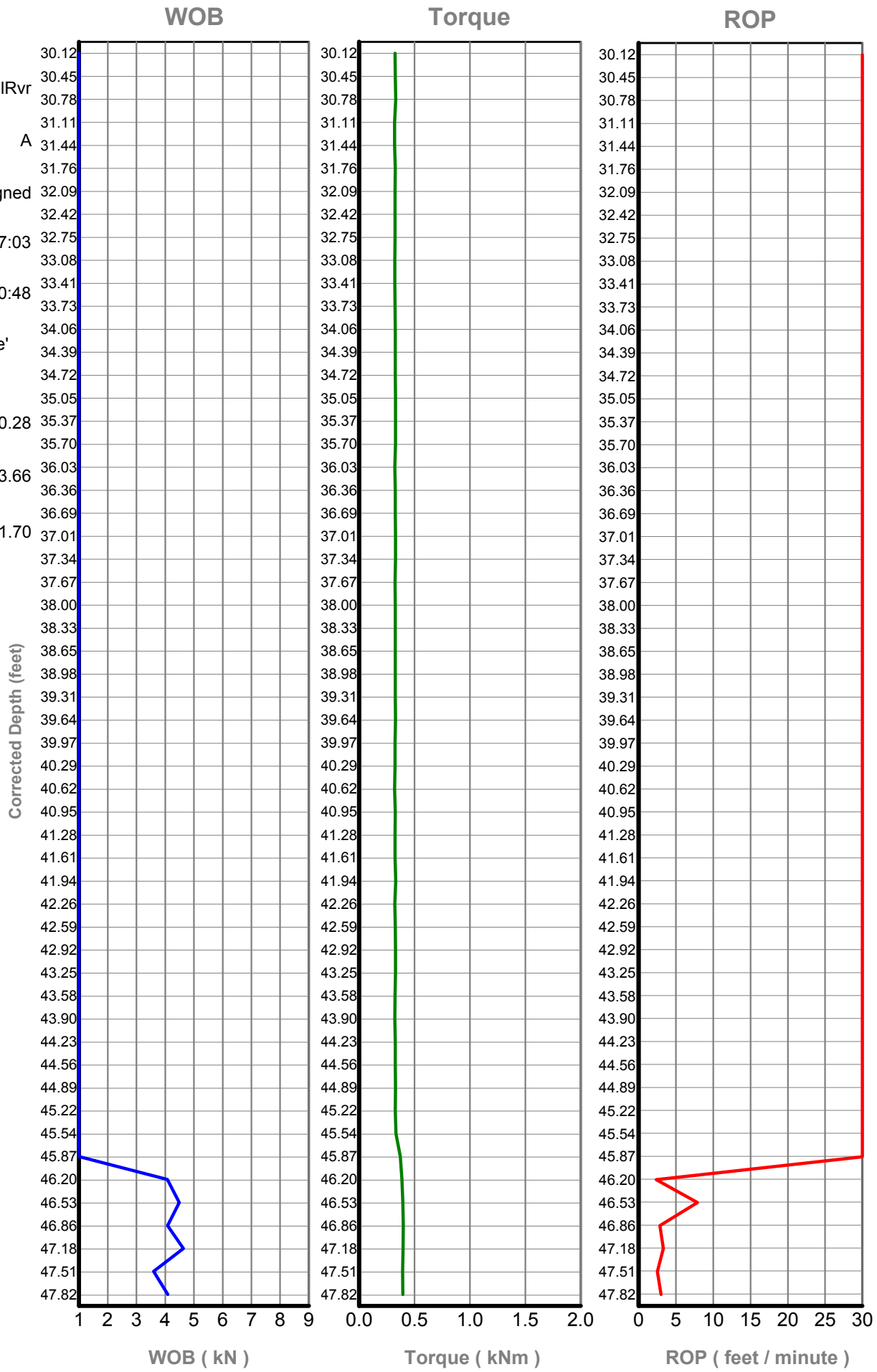
**End Date:**
4/24/2015 9:50:48

**Operator Note:**
'1.7 1.9 b Auto Complete'

**Northing:**
367,100.28

**Easting:**
250,983.66

**Tide (feet):**
1.70



## Hole: H77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:53:23 | 31.82 | 30.12 | 887 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:53:23 | 32.15 | 30.45 | 873 | 0.35 | 0.33 | 47.7 |
| 4/24/2015 9:53:24 | 32.48 | 30.78 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 9:53:24 | 32.81 | 31.11 | 873 | 0.35 | 0.32 | 47.7 |
| 4/24/2015 9:53:24 | 33.14 | 31.44 | 903 | 0.36 | 0.32 | 49.4 |
| 4/24/2015 9:53:25 | 33.46 | 31.76 | 888 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:53:25 | 33.79 | 32.09 | 893 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:26 | 34.12 | 32.42 | 893 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:26 | 34.45 | 32.75 | 887 | 0.35 | 0.32 | 48.5 |
| 4/24/2015 9:53:26 | 34.78 | 33.08 | 901 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:53:27 | 35.11 | 33.41 | 895 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:27 | 35.43 | 33.73 | 895 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:27 | 35.76 | 34.06 | 898 | 0.35 | 0.32 | 49.1 |
| 4/24/2015 9:53:28 | 36.09 | 34.39 | 892 | 0.36 | 0.33 | 48.8 |
| 4/24/2015 9:53:29 | 36.42 | 34.72 | 907 | 0.35 | 0.32 | 49.6 |
| 4/24/2015 9:53:29 | 36.75 | 35.05 | 890 | 0.36 | 0.32 | 48.7 |
| 4/24/2015 9:53:30 | 37.07 | 35.37 | 890 | 0.36 | 0.32 | 48.7 |
| 4/24/2015 9:53:30 | 37.40 | 35.70 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:53:30 | 37.73 | 36.03 | 887 | 0.36 | 0.33 | 48.5 |
| 4/24/2015 9:53:31 | 38.06 | 36.36 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:53:31 | 38.39 | 36.69 | 890 | 0.35 | 0.32 | 48.7 |
| 4/24/2015 9:53:31 | 38.71 | 37.01 | 890 | 0.36 | 0.33 | 48.7 |
| 4/24/2015 9:53:32 | 39.04 | 37.34 | 899 | 0.36 | 0.32 | 49.1 |
| 4/24/2015 9:53:32 | 39.37 | 37.67 | 893 | 0.35 | 0.32 | 48.8 |
| 4/24/2015 9:53:33 | 39.70 | 38.00 | 893 | 0.35 | 0.32 | 48.8 |
| 4/24/2015 9:53:33 | 40.03 | 38.33 | 899 | 0.36 | 0.32 | 49.2 |
| 4/24/2015 9:53:33 | 40.35 | 38.65 | 896 | 0.37 | 0.32 | 49.0 |
| 4/24/2015 9:53:34 | 40.68 | 38.98 | 899 | 0.34 | 0.32 | 49.2 |
| 4/24/2015 9:53:34 | 41.01 | 39.31 | 893 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:35 | 41.34 | 39.64 | 893 | 0.36 | 0.32 | 48.9 |
| 4/24/2015 9:53:35 | 41.67 | 39.97 | 884 | 0.37 | 0.32 | 48.3 |
| 4/24/2015 9:53:35 | 41.99 | 40.29 | 884 | 0.36 | 0.32 | 48.3 |
| 4/24/2015 9:53:36 | 42.32 | 40.62 | 889 | 0.36 | 0.32 | 48.6 |
| 4/24/2015 9:53:36 | 42.65 | 40.95 | 889 | 0.36 | 0.32 | 48.6 |
| 4/24/2015 9:53:36 | 42.98 | 41.28 | 894 | 0.34 | 0.33 | 48.9 |
| 4/24/2015 9:53:37 | 43.31 | 41.61 | 889 | 0.35 | 0.32 | 48.6 |
| 4/24/2015 9:53:37 | 43.64 | 41.94 | 892 | 0.35 | 0.32 | 48.8 |
| 4/24/2015 9:53:38 | 43.96 | 42.26 | 892 | 0.35 | 0.32 | 48.8 |
| 4/24/2015 9:53:38 | 44.29 | 42.59 | 901 | 0.35 | 0.32 | 49.3 |
| 4/24/2015 9:53:38 | 44.62 | 42.92 | 893 | 0.35 | 0.33 | 48.8 |
| 4/24/2015 9:53:39 | 44.95 | 43.25 | 896 | 0.33 | 0.35 | 49.0 |
| 4/24/2015 9:53:49 | 45.28 | 43.58 | 6 | 3.94 | 0.39 | 0.3 |
| 4/24/2015 9:53:54 | 45.60 | 43.90 | 52 | 3.89 | 0.39 | 2.8 |
| 4/24/2015 9:54:01 | 45.93 | 44.23 | 52 | 3.60 | 0.37 | 2.8 |
| 4/24/2015 9:54:06 | 46.26 | 44.56 | 67 | 3.96 | 0.39 | 3.6 |
| 4/24/2015 9:54:08 | 46.40 | 44.70 | 64 | 4.14 | 0.39 | 3.5 |

## H77 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:51:10

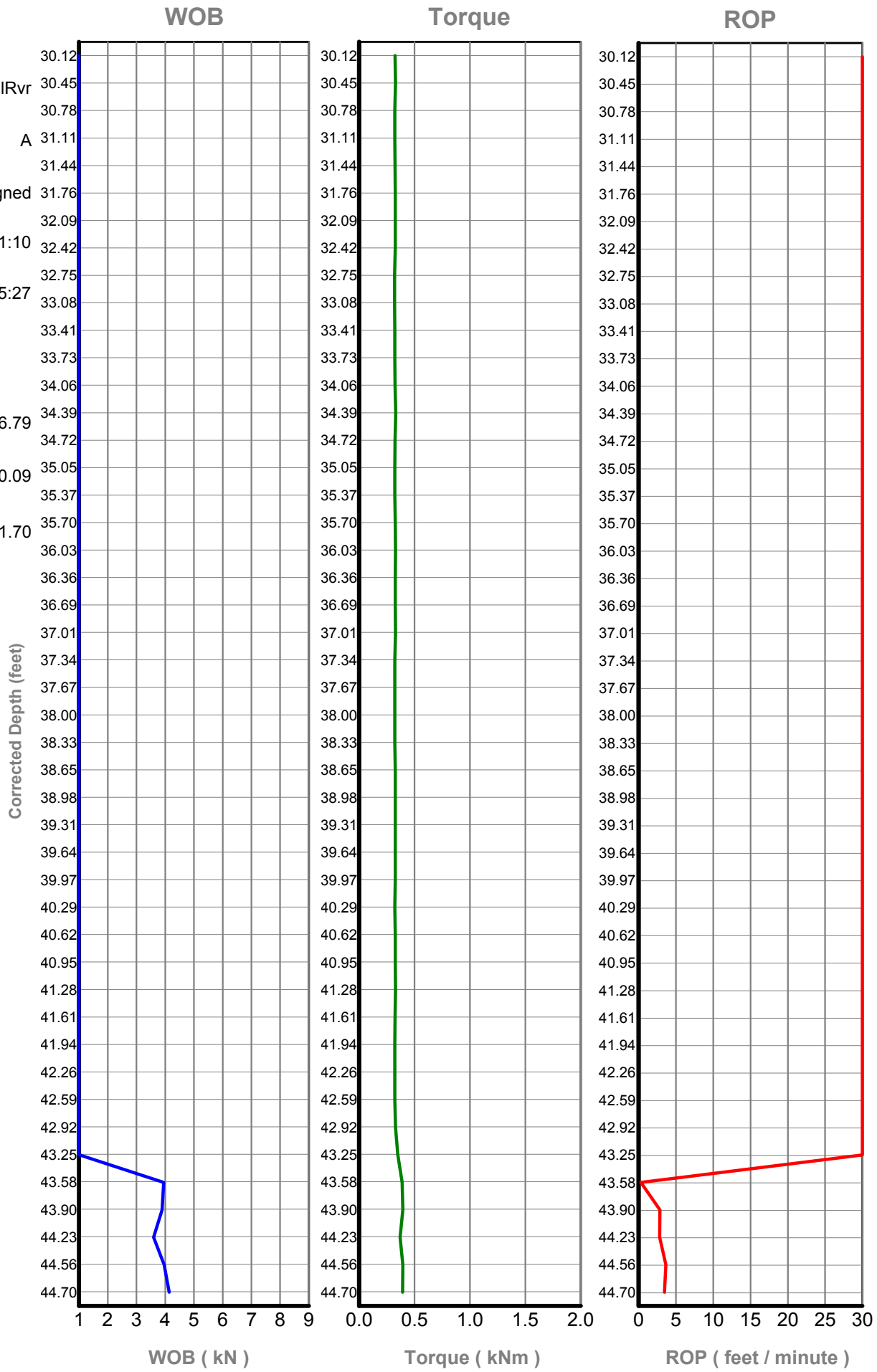
**End Date:**
4/24/2015 9:55:27

**Operator Note:**
'1.7 1.7 b Rock'

**Northing:**
367,136.79

**Easting:**
251,030.09

**Tide (feet):**
1.70



## Hole: H78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/24/2015 9:50:13 | 31.82 | 30.12 | 598 | 2.00 | 0.32 | 32.7 |
| 4/24/2015 9:50:14 | 32.15 | 30.45 | 595 | 1.98 | 0.32 | 32.5 |
| 4/24/2015 9:50:14 | 32.48 | 30.78 | 598 | 1.97 | 0.32 | 32.7 |
| 4/24/2015 9:50:15 | 32.81 | 31.11 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:50:16 | 33.14 | 31.44 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:17 | 33.46 | 31.76 | 602 | 1.98 | 0.32 | 32.9 |
| 4/24/2015 9:50:17 | 33.79 | 32.09 | 596 | 1.99 | 0.32 | 32.6 |
| 4/24/2015 9:50:18 | 34.12 | 32.42 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:18 | 34.45 | 32.75 | 596 | 2.00 | 0.32 | 32.6 |
| 4/24/2015 9:50:19 | 34.78 | 33.08 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:50:19 | 35.11 | 33.41 | 595 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:20 | 35.43 | 33.73 | 592 | 1.97 | 0.32 | 32.4 |
| 4/24/2015 9:50:21 | 35.76 | 34.06 | 580 | 1.91 | 0.32 | 31.7 |
| 4/24/2015 9:50:21 | 36.09 | 34.39 | 580 | 1.98 | 0.32 | 31.7 |
| 4/24/2015 9:50:22 | 36.42 | 34.72 | 590 | 1.98 | 0.32 | 32.3 |
| 4/24/2015 9:50:22 | 36.75 | 35.05 | 589 | 1.97 | 0.32 | 32.2 |
| 4/24/2015 9:50:23 | 37.07 | 35.37 | 589 | 1.99 | 0.32 | 32.2 |
| 4/24/2015 9:50:24 | 37.40 | 35.70 | 605 | 1.98 | 0.32 | 33.1 |
| 4/24/2015 9:50:24 | 37.73 | 36.03 | 592 | 1.99 | 0.32 | 32.4 |
| 4/24/2015 9:50:25 | 38.06 | 36.36 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:25 | 38.39 | 36.69 | 596 | 1.97 | 0.32 | 32.6 |
| 4/24/2015 9:50:26 | 38.71 | 37.01 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:50:27 | 39.04 | 37.34 | 596 | 1.99 | 0.32 | 32.6 |
| 4/24/2015 9:50:27 | 39.37 | 37.67 | 598 | 1.95 | 0.32 | 32.7 |
| 4/24/2015 9:50:28 | 39.70 | 38.00 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:29 | 40.03 | 38.33 | 589 | 1.99 | 0.32 | 32.2 |
| 4/24/2015 9:50:29 | 40.35 | 38.65 | 598 | 1.98 | 0.32 | 32.7 |
| 4/24/2015 9:50:30 | 40.68 | 38.98 | 592 | 1.98 | 0.32 | 32.4 |
| 4/24/2015 9:50:30 | 41.01 | 39.31 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:31 | 41.34 | 39.64 | 596 | 1.98 | 0.32 | 32.6 |
| 4/24/2015 9:50:31 | 41.67 | 39.97 | 599 | 1.95 | 0.32 | 32.7 |
| 4/24/2015 9:50:32 | 41.99 | 40.29 | 593 | 1.99 | 0.32 | 32.4 |
| 4/24/2015 9:50:33 | 42.32 | 40.62 | 589 | 1.98 | 0.32 | 32.2 |
| 4/24/2015 9:50:33 | 42.65 | 40.95 | 596 | 1.97 | 0.32 | 32.6 |
| 4/24/2015 9:50:34 | 42.98 | 41.28 | 593 | 1.99 | 0.32 | 32.4 |
| 4/24/2015 9:50:34 | 43.31 | 41.61 | 596 | 2.00 | 0.32 | 32.6 |
| 4/24/2015 9:50:35 | 43.64 | 41.94 | 599 | 1.99 | 0.32 | 32.8 |
| 4/24/2015 9:50:36 | 43.96 | 42.26 | 580 | 1.98 | 0.32 | 31.7 |
| 4/24/2015 9:50:37 | 44.29 | 42.59 | 580 | 1.96 | 0.32 | 31.7 |
| 4/24/2015 9:50:37 | 44.62 | 42.92 | 586 | 1.99 | 0.32 | 32.0 |
| 4/24/2015 9:50:38 | 44.95 | 43.25 | 586 | 1.99 | 0.32 | 32.0 |
| 4/24/2015 9:50:38 | 45.28 | 43.58 | 586 | 1.93 | 0.32 | 32.0 |
| 4/24/2015 9:50:55 | 45.60 | 43.90 | 30 | 2.01 | 1.19 | 1.6 |
| 4/24/2015 9:51:09 | 45.93 | 44.23 | 29 | 2.01 | 1.24 | 1.6 |
| 4/24/2015 9:51:17 | 46.26 | 44.56 | 43 | 1.98 | 1.18 | 2.4 |
| 4/24/2015 9:51:47 | 46.59 | 44.89 | 29 | 2.00 | 1.20 | 1.6 |
| 4/24/2015 9:52:00 | 46.92 | 45.22 | 29 | 2.01 | 1.19 | 1.6 |
| 4/24/2015 9:52:11 | 47.24 | 45.54 | 41 | 1.97 | 1.22 | 2.3 |
| 4/24/2015 9:52:14 | 47.45 | 45.75 | 59 | 1.99 | 1.33 | 3.2 |

## H78 - Summary

**Pattern Number:**
AreaH_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/24/2015 9:48:36

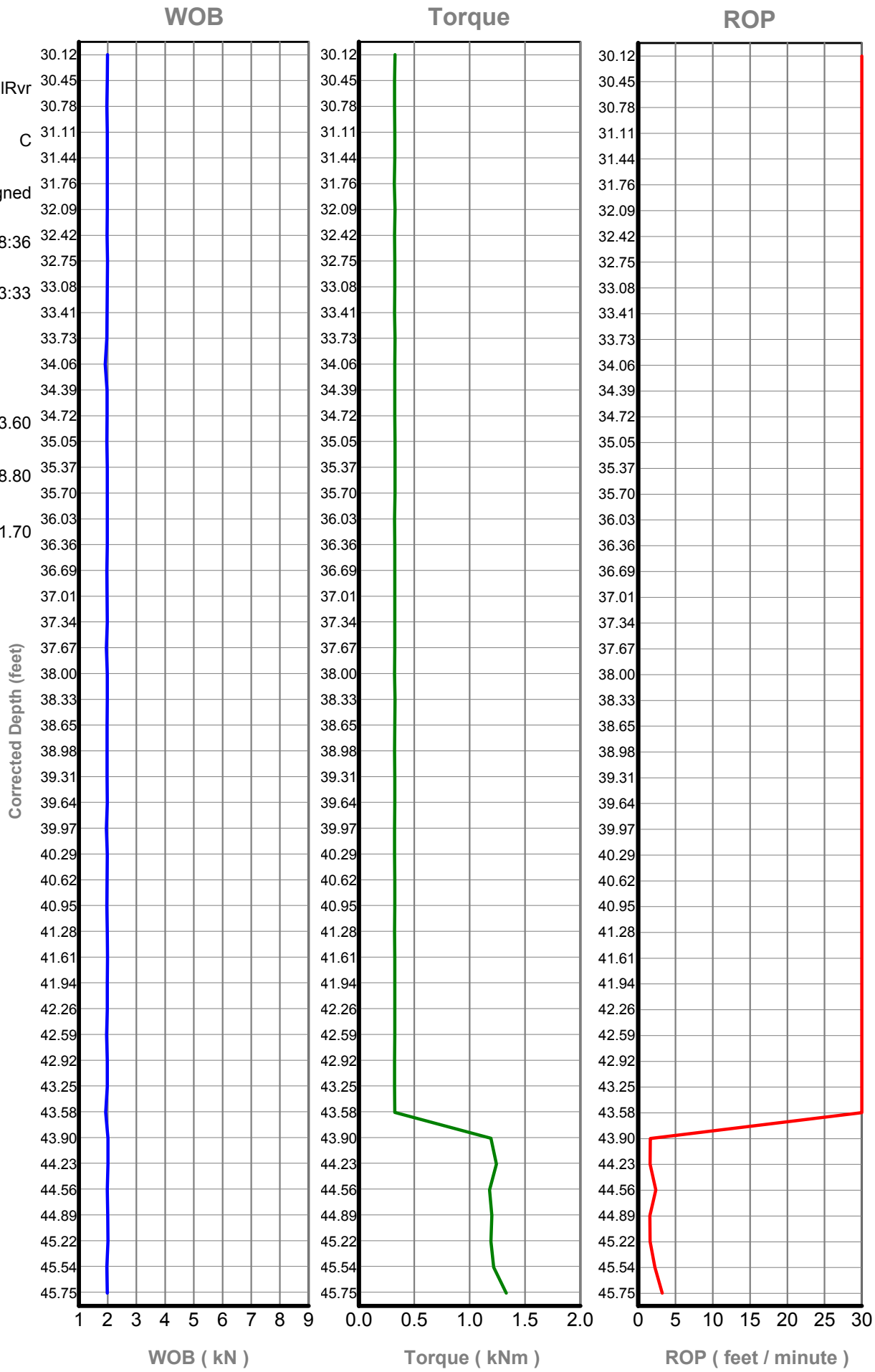
**End Date:**
4/24/2015 9:53:33

**Operator Note:**
'1.7 1.9 C Auto Complete'

**Northing:**
367,183.60

**Easting:**
251,088.80

**Tide (feet):**
1.70



## Hole: H79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:42:43 | 30.18 | 30.28 | 856 | 0.36 | 0.33 | 46.8 |
| 4/23/2015 23:42:44 | 30.51 | 30.61 | 853 | 0.36 | 0.33 | 46.6 |
| 4/23/2015 23:42:44 | 30.84 | 30.94 | 847 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:42:45 | 31.17 | 31.27 | 836 | 0.36 | 0.33 | 45.7 |
| 4/23/2015 23:42:45 | 31.50 | 31.60 | 836 | 0.36 | 0.33 | 45.7 |
| 4/23/2015 23:42:45 | 31.82 | 31.92 | 844 | 0.37 | 0.33 | 46.2 |
| 4/23/2015 23:42:46 | 32.15 | 32.25 | 847 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:42:46 | 32.48 | 32.58 | 850 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:42:47 | 32.81 | 32.91 | 850 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:42:47 | 33.14 | 33.24 | 859 | 0.37 | 0.33 | 47.0 |
| 4/23/2015 23:42:47 | 33.46 | 33.56 | 870 | 0.36 | 0.33 | 47.6 |
| 4/23/2015 23:42:48 | 33.79 | 33.89 | 861 | 0.36 | 0.33 | 47.1 |
| 4/23/2015 23:42:48 | 34.12 | 34.22 | 859 | 0.36 | 0.32 | 47.0 |
| 4/23/2015 23:42:49 | 34.45 | 34.55 | 859 | 0.36 | 0.32 | 47.0 |
| 4/23/2015 23:42:49 | 34.78 | 34.88 | 862 | 0.37 | 0.33 | 47.1 |
| 4/23/2015 23:42:49 | 35.11 | 35.21 | 862 | 0.36 | 0.33 | 47.1 |
| 4/23/2015 23:42:50 | 35.43 | 35.53 | 859 | 0.36 | 0.33 | 47.0 |
| 4/23/2015 23:42:50 | 35.76 | 35.86 | 856 | 0.37 | 0.33 | 46.8 |
| 4/23/2015 23:42:51 | 36.09 | 36.19 | 856 | 0.37 | 0.33 | 46.8 |
| 4/23/2015 23:42:51 | 36.42 | 36.52 | 851 | 0.36 | 0.34 | 46.5 |
| 4/23/2015 23:42:51 | 36.75 | 36.85 | 853 | 0.36 | 0.33 | 46.7 |
| 4/23/2015 23:42:52 | 37.07 | 37.17 | 848 | 0.36 | 0.33 | 46.4 |
| 4/23/2015 23:42:53 | 37.40 | 37.50 | 833 | 0.37 | 0.33 | 45.6 |
| 4/23/2015 23:42:53 | 37.73 | 37.83 | 846 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:42:54 | 38.06 | 38.16 | 846 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:42:54 | 38.39 | 38.49 | 859 | 0.36 | 0.32 | 47.0 |
| 4/23/2015 23:42:54 | 38.71 | 38.81 | 857 | 0.36 | 0.33 | 46.9 |
| 4/23/2015 23:42:55 | 39.04 | 39.14 | 851 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:42:55 | 39.37 | 39.47 | 870 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:42:56 | 39.70 | 39.80 | 870 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:42:56 | 40.03 | 40.13 | 871 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:42:56 | 40.35 | 40.45 | 863 | 0.36 | 0.33 | 47.2 |
| 4/23/2015 23:42:57 | 40.68 | 40.78 | 860 | 0.36 | 0.33 | 47.0 |
| 4/23/2015 23:42:57 | 41.01 | 41.11 | 866 | 0.62 | 0.41 | 47.4 |
| 4/23/2015 23:42:58 | 41.34 | 41.44 | 866 | 0.62 | 0.41 | 47.4 |
| 4/23/2015 23:42:58 | 41.67 | 41.77 | 856 | 0.37 | 0.33 | 46.8 |
| 4/23/2015 23:42:58 | 41.99 | 42.09 | 847 | 0.36 | 0.32 | 46.3 |
| 4/23/2015 23:42:59 | 42.32 | 42.42 | 847 | 0.37 | 0.32 | 46.3 |
| 4/23/2015 23:42:59 | 42.65 | 42.75 | 839 | 0.36 | 0.33 | 45.9 |
| 4/23/2015 23:43:00 | 42.98 | 43.08 | 839 | 0.36 | 0.33 | 45.9 |
| 4/23/2015 23:43:00 | 43.31 | 43.41 | 850 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:43:00 | 43.64 | 43.74 | 847 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:43:01 | 43.96 | 44.06 | 850 | 0.37 | 0.33 | 46.5 |
| 4/23/2015 23:43:01 | 44.29 | 44.39 | 850 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:43:02 | 44.62 | 44.72 | 850 | 0.36 | 0.33 | 46.5 |
| 4/23/2015 23:43:02 | 44.95 | 45.05 | 856 | 0.36 | 0.33 | 46.8 |
| 4/23/2015 23:43:03 | 45.28 | 45.38 | 853 | 0.36 | 0.33 | 46.6 |
| 4/23/2015 23:43:03 | 45.60 | 45.70 | 853 | 0.36 | 0.33 | 46.6 |
| 4/23/2015 23:43:04 | 45.93 | 46.03 | 845 | 0.37 | 0.33 | 46.2 |
| 4/23/2015 23:43:04 | 46.26 | 46.36 | 845 | 0.37 | 0.33 | 46.2 |
| 4/23/2015 23:43:04 | 46.59 | 46.69 | 847 | 0.36 | 0.33 | 46.3 |
| 4/23/2015 23:43:05 | 46.92 | 47.02 | 844 | 0.34 | 0.36 | 46.2 |
| 4/23/2015 23:43:18 | 47.24 | 47.34 | 70 | 5.06 | 0.40 | 3.8 |
| 4/23/2015 23:43:26 | 47.57 | 47.67 | 26 | 4.17 | 0.39 | 1.4 |
| 4/23/2015 23:43:27 | 47.90 | 48.00 | 89 | 3.20 | 0.36 | 4.9 |
| 4/23/2015 23:43:28 | 48.23 | 48.33 | 172 | 4.03 | 0.38 | 9.4 |
| 4/23/2015 23:43:29 | 48.56 | 48.66 | 322 | 3.25 | 0.37 | 17.6 |
| 4/23/2015 23:43:30 | 48.88 | 48.98 | 382 | 4.10 | 0.38 | 20.9 |
| 4/23/2015 23:44:06 | 49.21 | 49.31 | 40 | 2.95 | 0.36 | 2.2 |
| 4/23/2015 23:44:07 | 49.54 | 49.64 | 200 | 3.92 | 0.38 | 10.9 |
| 4/23/2015 23:44:11 | 49.87 | 49.97 | 61 | 3.14 | 0.40 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 23:44:18 | 50.20 | 50.30 | 43 | 3.16 | 0.40 | 2.3 |
| 4/23/2015 | 23:44:28 | 50.53 | 50.63 | 32 | 3.25 | 0.40 | 1.7 |
| 4/23/2015 | 23:44:37 | 50.85 | 50.95 | 49 | 3.31 | 0.39 | 2.7 |
| 4/23/2015 | 23:44:41 | 51.18 | 51.28 | 87 | 3.64 | 0.40 | 4.7 |
| 4/23/2015 | 23:44:45 | 51.51 | 51.61 | 81 | 4.10 | 0.40 | 4.4 |
| 4/23/2015 | 23:44:50 | 51.84 | 51.94 | 89 | 3.84 | 0.39 | 4.9 |
| 4/23/2015 | 23:44:53 | 52.17 | 52.27 | 93 | 3.49 | 0.39 | 5.1 |
| 4/23/2015 | 23:44:58 | 52.49 | 52.59 | 85 | 3.66 | 0.40 | 4.6 |
| 4/23/2015 | 23:45:03 | 52.82 | 52.92 | 72 | 3.33 | 0.35 | 4.0 |
| 4/23/2015 | 23:45:05 | 53.15 | 53.25 | 98 | 3.51 | 0.38 | 5.4 |
| 4/23/2015 | 23:45:06 | 53.48 | 53.58 | 177 | 3.20 | 0.37 | 9.7 |
| 4/23/2015 | 23:45:09 | 53.81 | 53.91 | 181 | 3.33 | 0.39 | 9.9 |
| 4/23/2015 | 23:45:14 | 54.13 | 54.23 | 72 | 3.97 | 0.40 | 4.0 |
| 4/23/2015 | 23:45:21 | 54.46 | 54.56 | 40 | 4.55 | 0.40 | 2.2 |
| 4/23/2015 | 23:45:25 | 54.79 | 54.89 | 81 | 4.02 | 0.39 | 4.4 |
| 4/23/2015 | 23:45:29 | 55.01 | 55.11 | 75 | 4.44 | 0.40 | 4.1 |

## H79 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:40:49

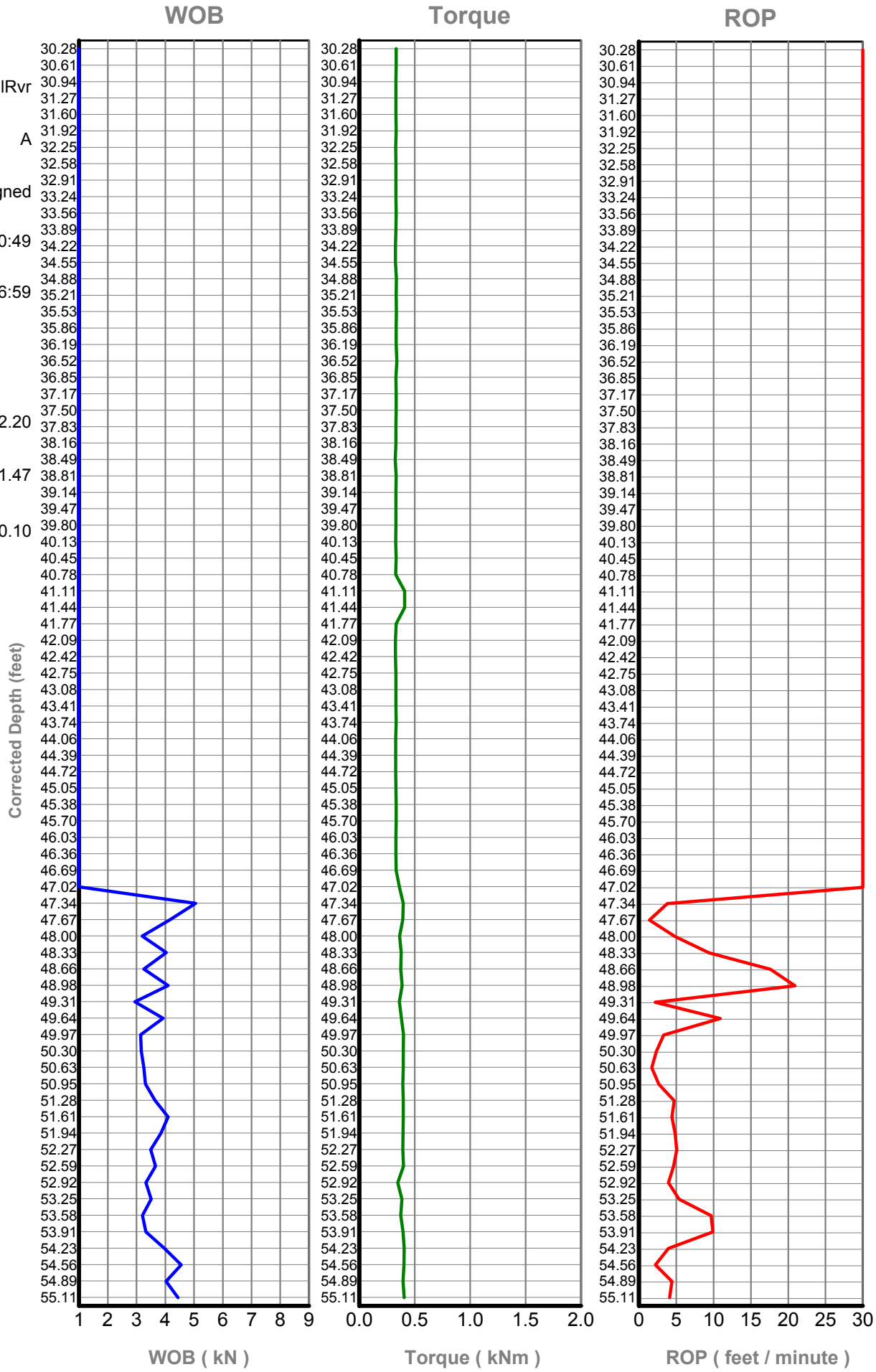
**End Date:**
4/23/2015 23:46:59

**Operator Note:**
'-0.1 0 b Auto Complete'

**Northing:**
367,232.20

**Easting:**
251,151.47

**Tide (feet):**
-0.10



## Hole: H8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:35:03 | 34.12 | 30.22 | 980 | 0.36 | 0.33 | 53.6 |
| 4/26/2015 23:35:03 | 34.45 | 30.55 | 977 | 0.36 | 0.33 | 53.4 |
| 4/26/2015 23:35:03 | 34.78 | 30.88 | 971 | 0.36 | 0.32 | 53.1 |
| 4/26/2015 23:35:04 | 35.11 | 31.21 | 971 | 0.36 | 0.32 | 53.1 |
| 4/26/2015 23:35:04 | 35.43 | 31.53 | 980 | 0.35 | 0.32 | 53.6 |
| 4/26/2015 23:35:04 | 35.76 | 31.86 | 968 | 0.36 | 0.32 | 53.0 |
| 4/26/2015 23:35:05 | 36.09 | 32.19 | 971 | 0.36 | 0.32 | 53.1 |
| 4/26/2015 23:35:05 | 36.42 | 32.52 | 971 | 0.36 | 0.32 | 53.1 |
| 4/26/2015 23:35:05 | 36.75 | 32.85 | 971 | 0.36 | 0.32 | 53.1 |
| 4/26/2015 23:35:06 | 37.07 | 33.17 | 974 | 0.36 | 0.32 | 53.3 |
| 4/26/2015 23:35:07 | 37.40 | 33.50 | 974 | 0.36 | 0.32 | 53.3 |
| 4/26/2015 23:35:07 | 37.73 | 33.83 | 971 | 0.35 | 0.32 | 53.1 |
| 4/26/2015 23:35:07 | 38.06 | 34.16 | 983 | 0.36 | 0.32 | 53.8 |
| 4/26/2015 23:35:08 | 38.39 | 34.49 | 983 | 0.36 | 0.32 | 53.8 |
| 4/26/2015 23:35:08 | 38.71 | 34.81 | 977 | 0.36 | 0.32 | 53.4 |
| 4/26/2015 23:35:08 | 39.04 | 35.14 | 983 | 0.36 | 0.32 | 53.7 |
| 4/26/2015 23:35:09 | 39.37 | 35.47 | 980 | 0.35 | 0.32 | 53.6 |
| 4/26/2015 23:35:09 | 39.70 | 35.80 | 980 | 0.35 | 0.32 | 53.6 |
| 4/26/2015 23:35:09 | 40.03 | 36.13 | 980 | 0.36 | 0.32 | 53.6 |
| 4/26/2015 23:35:10 | 40.35 | 36.45 | 974 | 0.36 | 0.32 | 53.3 |
| 4/26/2015 23:35:10 | 40.68 | 36.78 | 974 | 0.36 | 0.32 | 53.3 |
| 4/26/2015 23:35:10 | 41.01 | 37.11 | 983 | 0.36 | 0.33 | 53.7 |
| 4/26/2015 23:35:11 | 41.34 | 37.44 | 977 | 0.36 | 0.32 | 53.4 |
| 4/26/2015 23:35:11 | 41.67 | 37.77 | 977 | 0.36 | 0.32 | 53.4 |
| 4/26/2015 23:35:11 | 41.99 | 38.09 | 980 | 0.36 | 0.32 | 53.6 |
| 4/26/2015 23:35:12 | 42.32 | 38.42 | 974 | 0.35 | 0.32 | 53.3 |
| 4/26/2015 23:35:12 | 42.65 | 38.75 | 983 | 0.35 | 0.33 | 53.8 |
| 4/26/2015 23:35:13 | 42.98 | 39.08 | 983 | 0.35 | 0.33 | 53.8 |
| 4/26/2015 23:35:13 | 43.31 | 39.41 | 980 | 0.35 | 0.32 | 53.6 |
| 4/26/2015 23:35:13 | 43.64 | 39.74 | 983 | 0.36 | 0.32 | 53.8 |
| 4/26/2015 23:35:14 | 43.96 | 40.06 | 983 | 0.36 | 0.32 | 53.8 |
| 4/26/2015 23:35:14 | 44.29 | 40.39 | 980 | 0.35 | 0.33 | 53.6 |
| 4/26/2015 23:35:14 | 44.62 | 40.72 | 989 | 0.36 | 0.34 | 54.1 |
| 4/26/2015 23:35:15 | 44.95 | 41.05 | 943 | 0.33 | 0.38 | 51.6 |
| 4/26/2015 23:36:26 | 45.28 | 41.38 | 61 | 3.37 | 0.38 | 3.3 |
| 4/26/2015 23:36:38 | 45.60 | 41.70 | 52 | 4.89 | 0.40 | 2.8 |
| 4/26/2015 23:36:44 | 45.93 | 42.03 | 9 | 5.08 | 0.40 | 0.5 |
| 4/26/2015 23:37:29 | 46.26 | 42.36 | 0 | 3.27 | 0.36 | 0.0 |
| 4/26/2015 23:37:35 | 46.59 | 42.69 | 30 | 4.03 | 0.40 | 1.6 |
| 4/26/2015 23:37:37 | 46.92 | 43.02 | 137 | 3.39 | 0.40 | 7.5 |
| 4/26/2015 23:37:41 | 47.24 | 43.34 | 96 | 3.31 | 0.40 | 5.2 |
| 4/26/2015 23:37:47 | 47.57 | 43.67 | 61 | 4.07 | 0.40 | 3.3 |
| 4/26/2015 23:37:53 | 47.90 | 44.00 | 64 | 3.83 | 0.40 | 3.5 |
| 4/26/2015 23:37:59 | 48.23 | 44.33 | 55 | 3.20 | 0.40 | 3.0 |
| 4/26/2015 23:38:06 | 48.56 | 44.66 | 55 | 3.69 | 0.40 | 3.0 |
| 4/26/2015 23:38:11 | 48.88 | 44.98 | 66 | 3.76 | 0.40 | 3.6 |
| 4/26/2015 23:38:14 | 49.05 | 45.15 | 72 | 4.11 | 0.40 | 4.0 |

## H8 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:32:37

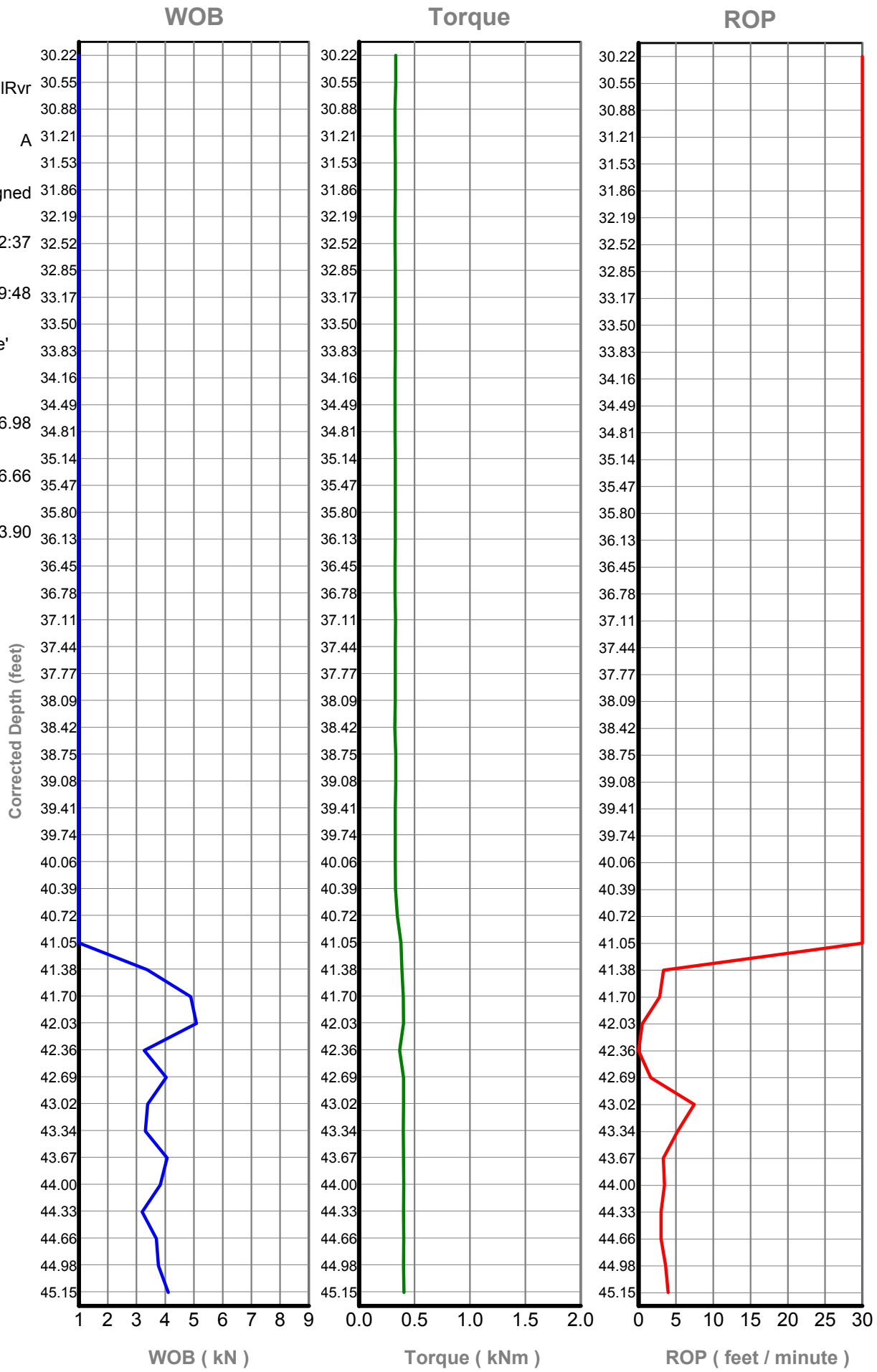
**End Date:**
4/26/2015 23:39:48

**Operator Note:**
'3.9 3.9 b Auto Complete'

**Northing:**
365,926.98

**Easting:**
249,406.66

**Tide (feet):**
3.90



## Hole: H80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:36:51 | 30.18 | 30.18 | 867 | 0.36 | 0.33 | 47.4 |
| 4/23/2015 23:36:51 | 30.51 | 30.51 | 861 | 0.36 | 0.33 | 47.1 |
| 4/23/2015 23:36:52 | 30.84 | 30.84 | 853 | 0.36 | 0.33 | 46.7 |
| 4/23/2015 23:36:52 | 31.17 | 31.17 | 853 | 0.37 | 0.33 | 46.6 |
| 4/23/2015 23:36:53 | 31.50 | 31.50 | 853 | 0.37 | 0.33 | 46.6 |
| 4/23/2015 23:36:53 | 31.82 | 31.82 | 850 | 0.37 | 0.32 | 46.5 |
| 4/23/2015 23:36:53 | 32.15 | 32.15 | 856 | 0.37 | 0.33 | 46.8 |
| 4/23/2015 23:36:54 | 32.48 | 32.48 | 864 | 0.37 | 0.32 | 47.3 |
| 4/23/2015 23:36:54 | 32.81 | 32.81 | 864 | 0.37 | 0.32 | 47.3 |
| 4/23/2015 23:36:54 | 33.14 | 33.14 | 873 | 0.37 | 0.33 | 47.7 |
| 4/23/2015 23:36:55 | 33.46 | 33.46 | 876 | 0.37 | 0.33 | 47.9 |
| 4/23/2015 23:36:55 | 33.79 | 33.79 | 876 | 0.36 | 0.33 | 47.9 |
| 4/23/2015 23:36:56 | 34.12 | 34.12 | 868 | 0.37 | 0.33 | 47.4 |
| 4/23/2015 23:36:56 | 34.45 | 34.45 | 868 | 0.37 | 0.33 | 47.4 |
| 4/23/2015 23:36:56 | 34.78 | 34.78 | 873 | 0.36 | 0.33 | 47.7 |
| 4/23/2015 23:36:57 | 35.11 | 35.11 | 870 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:36:57 | 35.43 | 35.43 | 867 | 0.36 | 0.34 | 47.4 |
| 4/23/2015 23:36:58 | 35.76 | 35.76 | 864 | 0.36 | 0.33 | 47.3 |
| 4/23/2015 23:36:59 | 36.09 | 36.09 | 864 | 0.36 | 0.33 | 47.3 |
| 4/23/2015 23:36:59 | 36.42 | 36.42 | 864 | 0.37 | 0.33 | 47.3 |
| 4/23/2015 23:36:59 | 36.75 | 36.75 | 858 | 0.38 | 0.33 | 46.9 |
| 4/23/2015 23:37:00 | 37.07 | 37.07 | 856 | 0.37 | 0.33 | 46.8 |
| 4/23/2015 23:37:00 | 37.40 | 37.40 | 848 | 0.37 | 0.33 | 46.4 |
| 4/23/2015 23:37:01 | 37.73 | 37.73 | 848 | 0.37 | 0.33 | 46.4 |
| 4/23/2015 23:37:01 | 38.06 | 38.06 | 862 | 0.37 | 0.33 | 47.1 |
| 4/23/2015 23:37:01 | 38.39 | 38.39 | 865 | 0.37 | 0.33 | 47.3 |
| 4/23/2015 23:37:02 | 38.71 | 38.71 | 871 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:37:02 | 39.04 | 39.04 | 871 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:37:02 | 39.37 | 39.37 | 874 | 0.37 | 0.33 | 47.8 |
| 4/23/2015 23:37:03 | 39.70 | 39.70 | 875 | 0.37 | 0.33 | 47.8 |
| 4/23/2015 23:37:03 | 40.03 | 40.03 | 875 | 0.37 | 0.33 | 47.8 |
| 4/23/2015 23:37:04 | 40.35 | 40.35 | 873 | 0.37 | 0.33 | 47.8 |
| 4/23/2015 23:37:04 | 40.68 | 40.68 | 873 | 0.37 | 0.33 | 47.8 |
| 4/23/2015 23:37:04 | 41.01 | 41.01 | 873 | 0.37 | 0.33 | 47.7 |
| 4/23/2015 23:37:05 | 41.34 | 41.34 | 850 | 0.37 | 0.33 | 46.5 |
| 4/23/2015 23:37:05 | 41.67 | 41.67 | 853 | 0.37 | 0.33 | 46.6 |
| 4/23/2015 23:37:06 | 41.99 | 41.99 | 853 | 0.32 | 0.33 | 46.6 |
| 4/23/2015 23:37:06 | 42.32 | 42.32 | 853 | 0.32 | 0.33 | 46.6 |
| 4/23/2015 23:37:06 | 42.65 | 42.65 | 862 | 0.37 | 0.35 | 47.1 |
| 4/23/2015 23:37:07 | 42.98 | 42.98 | 864 | 0.37 | 0.32 | 47.2 |
| 4/23/2015 23:37:07 | 43.31 | 43.31 | 847 | 0.37 | 0.33 | 46.3 |
| 4/23/2015 23:37:08 | 43.64 | 43.64 | 847 | 0.37 | 0.33 | 46.3 |
| 4/23/2015 23:37:09 | 43.96 | 43.96 | 847 | 0.37 | 0.33 | 46.3 |
| 4/23/2015 23:37:09 | 44.29 | 44.29 | 869 | 0.37 | 0.33 | 47.5 |
| 4/23/2015 23:37:09 | 44.62 | 44.62 | 875 | 0.37 | 0.33 | 47.9 |
| 4/23/2015 23:37:10 | 44.95 | 44.95 | 884 | 0.37 | 0.33 | 48.3 |
| 4/23/2015 23:37:10 | 45.28 | 45.28 | 884 | 0.37 | 0.33 | 48.3 |
| 4/23/2015 23:37:10 | 45.60 | 45.60 | 870 | 0.37 | 0.33 | 47.6 |
| 4/23/2015 23:37:11 | 45.93 | 45.93 | 878 | 0.37 | 0.34 | 48.0 |
| 4/23/2015 23:37:11 | 46.26 | 46.26 | 864 | 0.35 | 0.38 | 47.2 |
| 4/23/2015 23:37:26 | 46.59 | 46.59 | 102 | 4.17 | 0.37 | 5.6 |
| 4/23/2015 23:37:27 | 46.92 | 46.92 | 237 | 3.81 | 0.37 | 13.0 |
| 4/23/2015 23:37:28 | 47.24 | 47.24 | 355 | 4.38 | 0.38 | 19.4 |
| 4/23/2015 23:37:30 | 47.57 | 47.57 | 268 | 4.74 | 0.40 | 14.7 |
| 4/23/2015 23:37:34 | 47.90 | 47.90 | 60 | 4.69 | 0.40 | 3.3 |
| 4/23/2015 23:37:38 | 48.23 | 48.23 | 65 | 3.75 | 0.39 | 3.6 |
| 4/23/2015 23:37:44 | 48.56 | 48.56 | 70 | 3.73 | 0.39 | 3.9 |
| 4/23/2015 23:37:47 | 48.88 | 48.88 | 107 | 3.39 | 0.39 | 5.8 |
| 4/23/2015 23:37:51 | 49.21 | 49.21 | 115 | 4.07 | 0.40 | 6.3 |
| 4/23/2015 23:37:55 | 49.54 | 49.54 | 90 | 4.60 | 0.39 | 4.9 |
| 4/23/2015 23:37:59 | 49.87 | 49.87 | 75 | 4.33 | 0.40 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 23:38:04 | 50.20 | 50.20 | 69 | 3.86 | 0.40 | 3.8 |
| 4/23/2015 | 23:38:10 | 50.53 | 50.53 | 64 | 3.76 | 0.40 | 3.5 |
| 4/23/2015 | 23:38:16 | 50.85 | 50.85 | 63 | 4.27 | 0.40 | 3.5 |
| 4/23/2015 | 23:38:17 | 50.97 | 50.97 | 64 | 4.15 | 0.40 | 3.5 |

## H80 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:34:45

**End Date:**
4/23/2015 23:39:26

**Operator Note:**
'0 .1 b Auto Complete'

**Northing:**
367,269.34

**Easting:**
251,197.32

**Tide (feet):**
0.00



## Hole: H81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 23:38:01 | 30.18 | 30.18 | 556 | 2.01 | 0.18 | 30.4 |
| 4/23/2015 23:38:02 | 30.51 | 30.51 | 559 | 2.02 | 0.15 | 30.6 |
| 4/23/2015 23:38:02 | 30.84 | 30.84 | 562 | 2.02 | 0.18 | 30.8 |
| 4/23/2015 23:38:03 | 31.17 | 31.17 | 559 | 2.00 | 0.18 | 30.5 |
| 4/23/2015 23:38:04 | 31.50 | 31.50 | 567 | 2.02 | 0.18 | 31.0 |
| 4/23/2015 23:38:04 | 31.82 | 31.82 | 561 | 2.01 | 0.18 | 30.7 |
| 4/23/2015 23:38:05 | 32.15 | 32.15 | 561 | 2.01 | 0.18 | 30.7 |
| 4/23/2015 23:38:05 | 32.48 | 32.48 | 561 | 2.02 | 0.18 | 30.7 |
| 4/23/2015 23:38:06 | 32.81 | 32.81 | 561 | 2.03 | 0.18 | 30.7 |
| 4/23/2015 23:38:07 | 33.14 | 33.14 | 564 | 2.01 | 0.18 | 30.8 |
| 4/23/2015 23:38:07 | 33.46 | 33.46 | 557 | 2.02 | 0.18 | 30.5 |
| 4/23/2015 23:38:08 | 33.79 | 33.79 | 564 | 2.02 | 0.18 | 30.8 |
| 4/23/2015 23:38:08 | 34.12 | 34.12 | 564 | 2.04 | 0.18 | 30.8 |
| 4/23/2015 23:38:09 | 34.45 | 34.45 | 561 | 2.03 | 0.18 | 30.7 |
| 4/23/2015 23:38:10 | 34.78 | 34.78 | 564 | 2.01 | 0.18 | 30.8 |
| 4/23/2015 23:38:11 | 35.11 | 35.11 | 561 | 2.02 | 0.18 | 30.7 |
| 4/23/2015 23:38:11 | 35.43 | 35.43 | 549 | 2.04 | 0.18 | 30.0 |
| 4/23/2015 23:38:12 | 35.76 | 35.76 | 549 | 2.05 | 0.18 | 30.0 |
| 4/23/2015 23:38:13 | 36.09 | 36.09 | 558 | 2.04 | 0.18 | 30.5 |
| 4/23/2015 23:38:13 | 36.42 | 36.42 | 561 | 2.01 | 0.18 | 30.7 |
| 4/23/2015 23:38:14 | 36.75 | 36.75 | 558 | 2.03 | 0.18 | 30.5 |
| 4/23/2015 23:38:14 | 37.07 | 37.07 | 575 | 2.03 | 0.18 | 31.5 |
| 4/23/2015 23:38:15 | 37.40 | 37.40 | 567 | 2.03 | 0.18 | 31.0 |
| 4/23/2015 23:38:16 | 37.73 | 37.73 | 558 | 2.02 | 0.18 | 30.5 |
| 4/23/2015 23:38:16 | 38.06 | 38.06 | 554 | 2.01 | 0.18 | 30.3 |
| 4/23/2015 23:38:17 | 38.39 | 38.39 | 554 | 2.01 | 0.18 | 30.3 |
| 4/23/2015 23:38:17 | 38.71 | 38.71 | 557 | 2.03 | 0.18 | 30.4 |
| 4/23/2015 23:38:18 | 39.04 | 39.04 | 566 | 2.02 | 0.18 | 31.0 |
| 4/23/2015 23:38:19 | 39.37 | 39.37 | 566 | 2.03 | 0.18 | 30.9 |
| 4/23/2015 23:38:19 | 39.70 | 39.70 | 572 | 2.05 | 0.18 | 31.3 |
| 4/23/2015 23:38:20 | 40.03 | 40.03 | 561 | 1.99 | 0.18 | 30.7 |
| 4/23/2015 23:38:20 | 40.35 | 40.35 | 567 | 2.01 | 0.18 | 31.0 |
| 4/23/2015 23:38:22 | 40.68 | 40.68 | 564 | 2.00 | 0.18 | 30.8 |
| 4/23/2015 23:38:22 | 41.01 | 41.01 | 561 | 2.01 | 0.18 | 30.7 |
| 4/23/2015 23:38:23 | 41.34 | 41.34 | 570 | 2.02 | 0.18 | 31.2 |
| 4/23/2015 23:38:23 | 41.67 | 41.67 | 567 | 2.03 | 0.22 | 31.0 |
| 4/23/2015 23:38:24 | 41.99 | 41.99 | 567 | 2.03 | 0.18 | 31.0 |
| 4/23/2015 23:38:25 | 42.32 | 42.32 | 569 | 2.04 | 0.18 | 31.1 |
| 4/23/2015 23:38:25 | 42.65 | 42.65 | 564 | 2.02 | 0.18 | 30.8 |
| 4/23/2015 23:38:26 | 42.98 | 42.98 | 564 | 2.08 | 0.18 | 30.8 |
| 4/23/2015 23:38:26 | 43.31 | 43.31 | 560 | 2.02 | 0.18 | 30.6 |
| 4/23/2015 23:38:27 | 43.64 | 43.64 | 561 | 2.00 | 0.26 | 30.7 |
| 4/23/2015 23:38:28 | 43.96 | 43.96 | 567 | 2.03 | 0.18 | 31.0 |
| 4/23/2015 23:38:28 | 44.29 | 44.29 | 567 | 2.03 | 0.18 | 31.0 |
| 4/23/2015 23:38:29 | 44.62 | 44.62 | 570 | 2.01 | 0.18 | 31.1 |
| 4/23/2015 23:38:29 | 44.95 | 44.95 | 567 | 1.99 | 0.18 | 31.0 |
| 4/23/2015 23:38:30 | 45.28 | 45.28 | 558 | 2.04 | 0.18 | 30.5 |
| 4/23/2015 23:38:31 | 45.60 | 45.60 | 560 | 2.02 | 0.18 | 30.6 |
| 4/23/2015 23:38:31 | 45.93 | 45.93 | 560 | 2.03 | 0.18 | 30.6 |
| 4/23/2015 23:38:32 | 46.26 | 46.26 | 561 | 2.03 | 0.18 | 30.7 |
| 4/23/2015 23:38:33 | 46.59 | 46.59 | 557 | 2.04 | 0.18 | 30.5 |
| 4/23/2015 23:38:34 | 46.92 | 46.92 | 567 | 2.05 | 0.18 | 31.0 |
| 4/23/2015 23:38:34 | 47.24 | 47.24 | 567 | 2.03 | 0.18 | 31.0 |
| 4/23/2015 23:38:35 | 47.57 | 47.57 | 563 | 2.04 | 0.18 | 30.8 |
| 4/23/2015 23:38:35 | 47.90 | 47.90 | 569 | 2.02 | 0.18 | 31.1 |
| 4/23/2015 23:38:36 | 48.23 | 48.23 | 567 | 2.04 | 0.18 | 31.0 |
| 4/23/2015 23:38:37 | 48.56 | 48.56 | 564 | 1.98 | 0.18 | 30.8 |
| 4/23/2015 23:38:37 | 48.88 | 48.88 | 558 | 2.02 | 0.18 | 30.5 |
| 4/23/2015 23:39:15 | 49.21 | 49.21 | 0 | 2.02 | 1.12 | 0.0 |
| 4/23/2015 23:39:19 | 49.54 | 49.54 | 52 | 2.04 | 1.25 | 2.8 |
| 4/23/2015 23:39:27 | 49.87 | 49.87 | 40 | 2.02 | 1.29 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 23:39:37 | 50.20 | 50.20 | 41 | 2.01 | 1.22 | 2.2 |
| 4/23/2015 | 23:39:45 | 50.53 | 50.53 | 46 | 2.02 | 1.24 | 2.5 |
| 4/23/2015 | 23:39:48 | 50.63 | 50.63 | 43 | 2.04 | 1.37 | 2.4 |

## H81 - Summary

**Pattern Number:**
AreaH_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 23:36:24

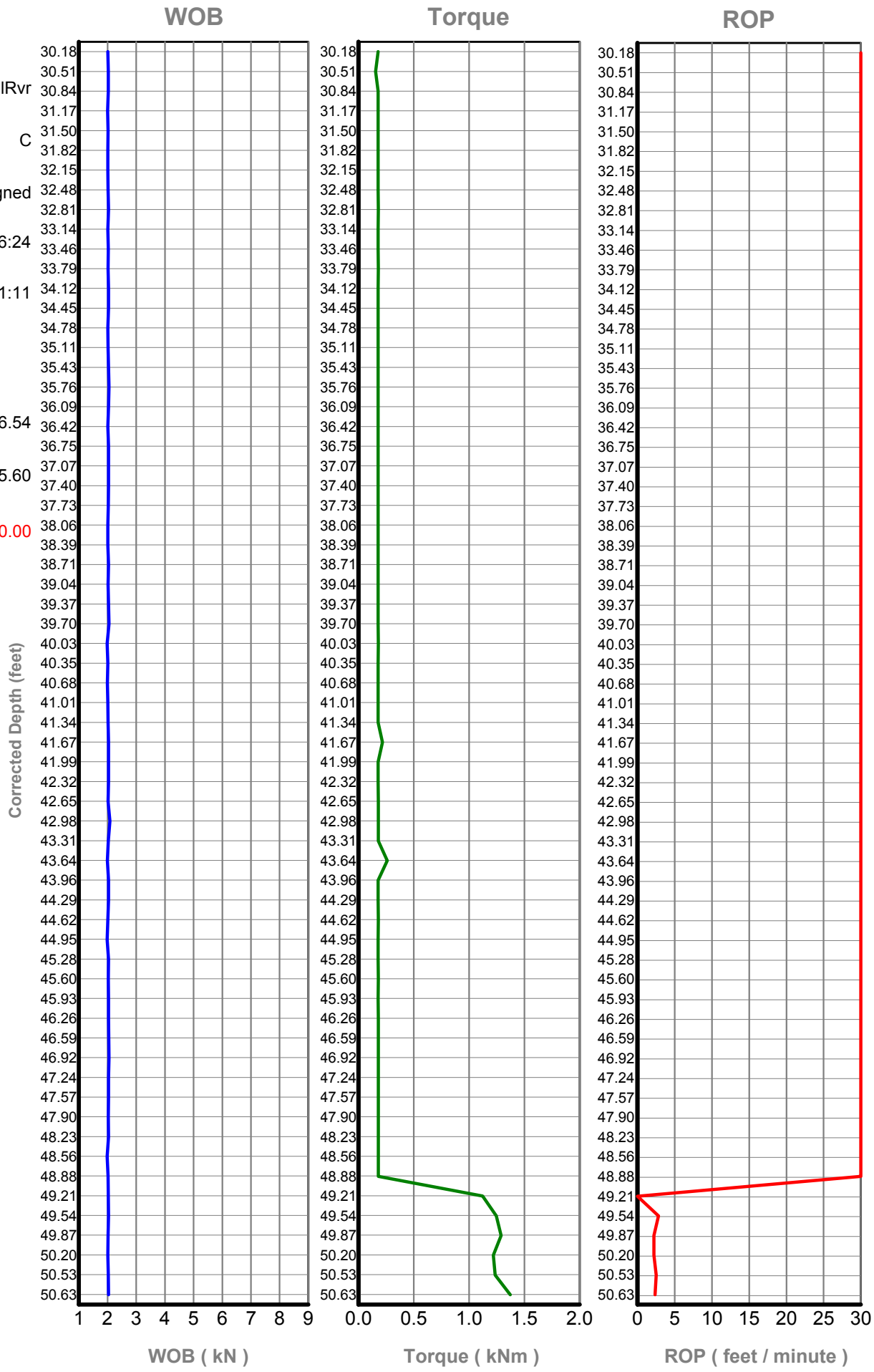
**End Date:**
4/23/2015 23:41:11

**Operator Note:**
'0 0.1 c Auto Complete'

**Northing:**
367,316.54

**Easting:**
251,255.60

**Tide (feet):**
0.00



## Hole: H82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:15:55 | 31.17 | 30.17 | 899 | 0.26 | 0.33 | 49.2 |
| 4/23/2015 22:15:55 | 31.50 | 30.50 | 899 | 0.26 | 0.33 | 49.2 |
| 4/23/2015 22:15:55 | 31.82 | 30.82 | 899 | 0.26 | 0.33 | 49.2 |
| 4/23/2015 22:15:56 | 32.15 | 31.15 | 899 | 0.26 | 0.33 | 49.2 |
| 4/23/2015 22:15:57 | 32.48 | 31.48 | 905 | 0.26 | 0.33 | 49.5 |
| 4/23/2015 22:15:57 | 32.81 | 31.81 | 905 | 0.26 | 0.33 | 49.5 |
| 4/23/2015 22:15:57 | 33.14 | 32.14 | 908 | 0.26 | 0.34 | 49.6 |
| 4/23/2015 22:15:58 | 33.46 | 32.46 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:15:58 | 33.79 | 32.79 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:15:59 | 34.12 | 33.12 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:15:59 | 34.45 | 33.45 | 919 | 0.26 | 0.34 | 50.3 |
| 4/23/2015 22:15:59 | 34.78 | 33.78 | 922 | 0.26 | 0.34 | 50.4 |
| 4/23/2015 22:16:00 | 35.11 | 34.11 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:16:00 | 35.43 | 34.43 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:16:00 | 35.76 | 34.76 | 922 | 0.26 | 0.34 | 50.4 |
| 4/23/2015 22:16:01 | 36.09 | 35.09 | 925 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:16:01 | 36.42 | 35.42 | 922 | 0.26 | 0.34 | 50.4 |
| 4/23/2015 22:16:02 | 36.75 | 35.75 | 922 | 0.26 | 0.34 | 50.4 |
| 4/23/2015 22:16:02 | 37.07 | 36.07 | 919 | 0.26 | 0.34 | 50.3 |
| 4/23/2015 22:16:02 | 37.40 | 36.40 | 919 | 0.26 | 0.34 | 50.3 |
| 4/23/2015 22:16:03 | 37.73 | 36.73 | 910 | 0.26 | 0.34 | 49.8 |
| 4/23/2015 22:16:03 | 38.06 | 37.06 | 910 | 0.26 | 0.34 | 49.8 |
| 4/23/2015 22:16:03 | 38.39 | 37.39 | 906 | 0.24 | 0.34 | 49.5 |
| 4/23/2015 22:16:04 | 38.71 | 37.71 | 911 | 0.26 | 0.34 | 49.8 |
| 4/23/2015 22:16:04 | 39.04 | 38.04 | 911 | 0.26 | 0.34 | 49.8 |
| 4/23/2015 22:16:04 | 39.37 | 38.37 | 926 | 0.26 | 0.34 | 50.6 |
| 4/23/2015 22:16:05 | 39.70 | 38.70 | 929 | 0.27 | 0.34 | 50.8 |
| 4/23/2015 22:16:05 | 40.03 | 39.03 | 934 | 0.18 | 0.33 | 51.1 |
| 4/23/2015 22:16:06 | 40.35 | 39.35 | 934 | 0.18 | 0.33 | 51.1 |
| 4/23/2015 22:16:06 | 40.68 | 39.68 | 942 | 0.25 | 0.33 | 51.5 |
| 4/23/2015 22:16:06 | 41.01 | 40.01 | 940 | 0.17 | 0.32 | 51.4 |
| 4/23/2015 22:16:07 | 41.34 | 40.34 | 922 | 0.20 | 0.33 | 50.4 |
| 4/23/2015 22:16:08 | 41.67 | 40.67 | 922 | 0.20 | 0.33 | 50.4 |
| 4/23/2015 22:16:08 | 41.99 | 40.99 | 913 | 0.20 | 0.32 | 50.0 |
| 4/23/2015 22:16:08 | 42.32 | 41.32 | 908 | 0.20 | 0.32 | 49.7 |
| 4/23/2015 22:16:09 | 42.65 | 41.65 | 917 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 22:16:09 | 42.98 | 41.98 | 917 | 0.20 | 0.32 | 50.1 |
| 4/23/2015 22:16:09 | 43.31 | 42.31 | 923 | 0.20 | 0.32 | 50.5 |
| 4/23/2015 22:16:10 | 43.64 | 42.64 | 928 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:16:10 | 43.96 | 42.96 | 937 | 0.20 | 0.32 | 51.2 |
| 4/23/2015 22:16:11 | 44.29 | 43.29 | 937 | 0.20 | 0.32 | 51.2 |
| 4/23/2015 22:16:11 | 44.62 | 43.62 | 948 | 0.20 | 0.32 | 51.9 |
| 4/23/2015 22:16:11 | 44.95 | 43.95 | 939 | 0.20 | 0.32 | 51.4 |
| 4/23/2015 22:16:12 | 45.28 | 44.28 | 939 | 0.20 | 0.32 | 51.4 |
| 4/23/2015 22:16:12 | 45.60 | 44.60 | 934 | 0.19 | 0.33 | 51.1 |
| 4/23/2015 22:16:12 | 45.93 | 44.93 | 937 | 0.19 | 0.33 | 51.2 |
| 4/23/2015 22:16:13 | 46.26 | 45.26 | 928 | 0.20 | 0.27 | 50.7 |
| 4/23/2015 22:16:13 | 46.59 | 45.59 | 928 | 0.20 | 0.27 | 50.7 |
| 4/23/2015 22:16:13 | 46.92 | 45.92 | 925 | 0.19 | 0.32 | 50.6 |
| 4/23/2015 22:16:14 | 47.24 | 46.24 | 925 | 0.19 | 0.32 | 50.6 |
| 4/23/2015 22:16:14 | 47.57 | 46.57 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 22:16:15 | 47.90 | 46.90 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 22:16:15 | 48.23 | 47.23 | 925 | 0.19 | 0.32 | 50.6 |
| 4/23/2015 22:16:15 | 48.56 | 47.56 | 928 | 0.20 | 0.32 | 50.8 |
| 4/23/2015 22:16:16 | 48.88 | 47.88 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 22:16:16 | 49.21 | 48.21 | 923 | 0.19 | 0.32 | 50.5 |
| 4/23/2015 22:16:16 | 49.54 | 48.54 | 928 | 0.20 | 0.33 | 50.8 |
| 4/23/2015 22:16:17 | 49.87 | 48.87 | 934 | 0.20 | 0.32 | 51.1 |
| 4/23/2015 22:16:18 | 50.20 | 49.20 | 931 | 0.20 | 0.33 | 50.9 |
| 4/23/2015 22:16:18 | 50.53 | 49.53 | 931 | 0.20 | 0.33 | 50.9 |
| 4/23/2015 22:16:18 | 50.85 | 49.85 | 925 | 0.20 | 0.33 | 50.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:16:19 | 51.18 | 50.18 | 922 | 0.20 | 0.32 | 50.4 |
| 4/23/2015 | 22:16:19 | 51.51 | 50.51 | 910 | 0.20 | 0.33 | 49.8 |
| 4/23/2015 | 22:16:20 | 51.84 | 50.84 | 910 | 0.20 | 0.33 | 49.8 |
| 4/23/2015 | 22:16:20 | 52.17 | 51.17 | 893 | 0.19 | 0.34 | 48.9 |
| 4/23/2015 | 22:16:20 | 52.49 | 51.49 | 871 | 0.19 | 0.34 | 47.6 |
| 4/23/2015 | 22:16:21 | 52.82 | 51.82 | 861 | 0.20 | 0.34 | 47.1 |
| 4/23/2015 | 22:16:21 | 53.15 | 52.15 | 836 | 0.20 | 0.34 | 45.7 |
| 4/23/2015 | 22:16:22 | 53.48 | 52.48 | 815 | 0.20 | 0.34 | 44.6 |
| 4/23/2015 | 22:16:22 | 53.81 | 52.81 | 801 | 0.19 | 0.36 | 43.8 |
| 4/23/2015 | 22:16:23 | 54.13 | 53.13 | 758 | 0.18 | 0.37 | 41.4 |
| 4/23/2015 | 22:16:23 | 54.46 | 53.46 | 678 | 0.18 | 0.36 | 37.1 |
| 4/23/2015 | 22:16:25 | 54.79 | 53.79 | 422 | 0.17 | 0.40 | 23.1 |
| 4/23/2015 | 22:17:00 | 55.12 | 54.12 | 91 | 2.40 | 0.35 | 5.0 |
| 4/23/2015 | 22:17:00 | 55.45 | 54.45 | 228 | 2.46 | 0.35 | 12.5 |
| 4/23/2015 | 22:17:01 | 55.77 | 54.77 | 360 | 2.41 | 0.35 | 19.7 |
| 4/23/2015 | 22:17:01 | 56.10 | 55.10 | 495 | 2.44 | 0.35 | 27.1 |
| 4/23/2015 | 22:17:02 | 56.43 | 55.43 | 621 | 2.55 | 0.36 | 33.9 |
| 4/23/2015 | 22:17:02 | 56.58 | 55.58 | 621 | 2.55 | 0.36 | 33.9 |

## H82 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:13:53

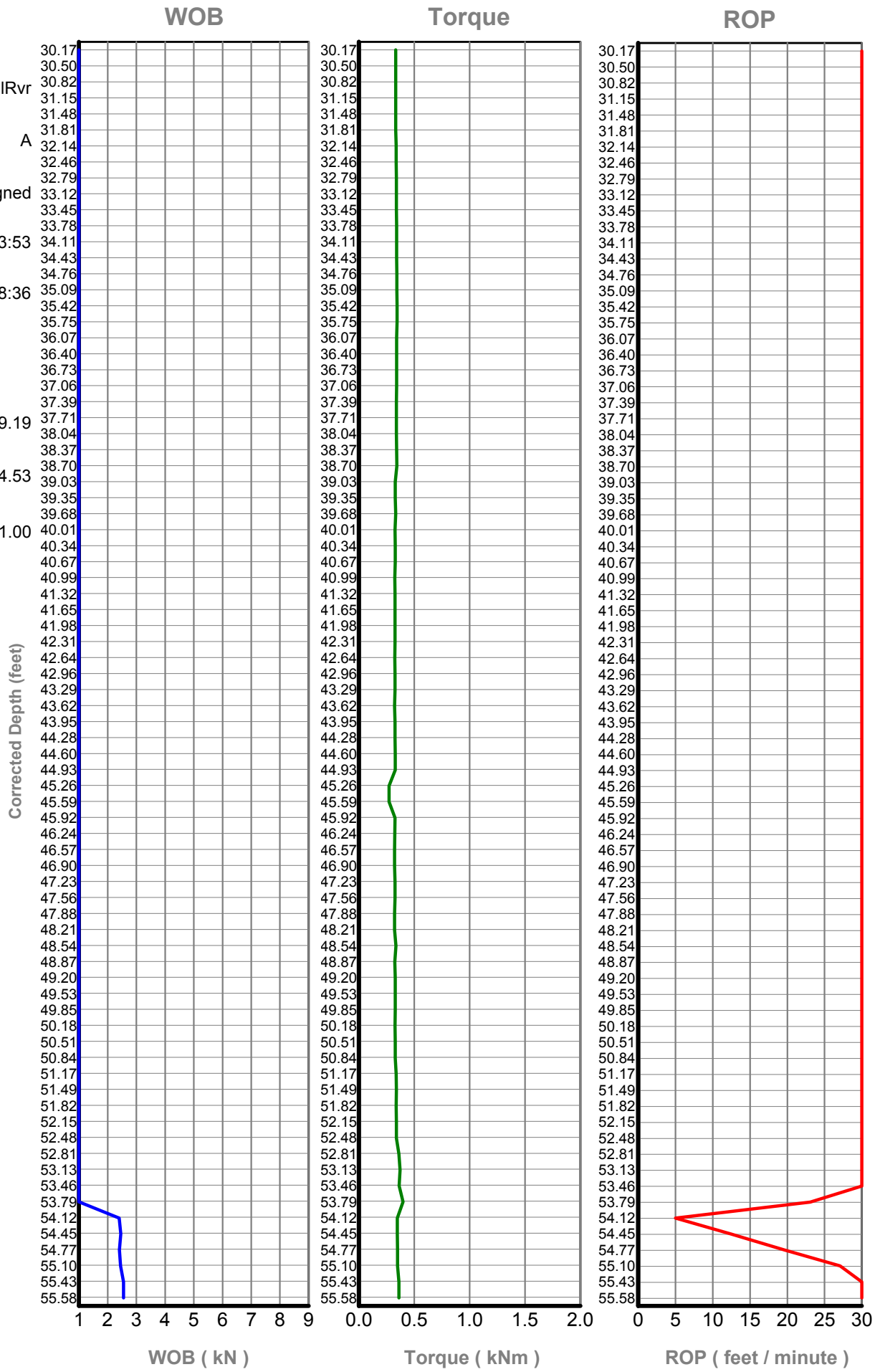
**End Date:**
4/23/2015 22:18:36

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
367,379.19

**Easting:**
251,324.53

**Tide (feet):**
1.00



## Hole: H83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:11:08 | 31.50 | 30.30 | 879 | 0.88 | 0.33 | 48.1 |
| 4/23/2015 22:11:08 | 31.82 | 30.62 | 873 | 0.89 | 0.33 | 47.7 |
| 4/23/2015 22:11:09 | 32.15 | 30.95 | 873 | 0.89 | 0.33 | 47.7 |
| 4/23/2015 22:11:09 | 32.48 | 31.28 | 879 | 0.88 | 0.33 | 48.1 |
| 4/23/2015 22:11:09 | 32.81 | 31.61 | 879 | 0.88 | 0.33 | 48.1 |
| 4/23/2015 22:11:10 | 33.14 | 31.94 | 893 | 0.88 | 0.33 | 48.8 |
| 4/23/2015 22:11:10 | 33.46 | 32.26 | 893 | 0.88 | 0.33 | 48.8 |
| 4/23/2015 22:11:10 | 33.79 | 32.59 | 896 | 0.89 | 0.33 | 49.0 |
| 4/23/2015 22:11:11 | 34.12 | 32.92 | 891 | 0.88 | 0.33 | 48.7 |
| 4/23/2015 22:11:11 | 34.45 | 33.25 | 893 | 0.88 | 0.34 | 48.8 |
| 4/23/2015 22:11:12 | 34.78 | 33.58 | 893 | 0.90 | 0.34 | 48.8 |
| 4/23/2015 22:11:12 | 35.11 | 33.91 | 893 | 0.90 | 0.34 | 48.8 |
| 4/23/2015 22:11:12 | 35.43 | 34.23 | 884 | 0.91 | 0.33 | 48.4 |
| 4/23/2015 22:11:13 | 35.76 | 34.56 | 879 | 0.89 | 0.34 | 48.1 |
| 4/23/2015 22:11:13 | 36.09 | 34.89 | 870 | 0.90 | 0.33 | 47.6 |
| 4/23/2015 22:11:14 | 36.42 | 35.22 | 867 | 0.89 | 0.34 | 47.4 |
| 4/23/2015 22:11:14 | 36.75 | 35.55 | 867 | 0.89 | 0.34 | 47.4 |
| 4/23/2015 22:11:14 | 37.07 | 35.87 | 859 | 0.90 | 0.29 | 47.0 |
| 4/23/2015 22:11:15 | 37.40 | 36.20 | 859 | 0.91 | 0.33 | 47.0 |
| 4/23/2015 22:11:16 | 37.73 | 36.53 | 856 | 0.91 | 0.33 | 46.8 |
| 4/23/2015 22:11:16 | 38.06 | 36.86 | 864 | 0.91 | 0.33 | 47.3 |
| 4/23/2015 22:11:17 | 38.39 | 37.19 | 864 | 0.91 | 0.33 | 47.3 |
| 4/23/2015 22:11:17 | 38.71 | 37.51 | 864 | 0.94 | 0.33 | 47.3 |
| 4/23/2015 22:11:17 | 39.04 | 37.84 | 867 | 0.92 | 0.33 | 47.4 |
| 4/23/2015 22:11:18 | 39.37 | 38.17 | 865 | 0.91 | 0.33 | 47.3 |
| 4/23/2015 22:11:18 | 39.70 | 38.50 | 865 | 0.91 | 0.33 | 47.3 |
| 4/23/2015 22:11:18 | 40.03 | 38.83 | 876 | 0.91 | 0.33 | 47.9 |
| 4/23/2015 22:11:19 | 40.35 | 39.15 | 873 | 0.90 | 0.34 | 47.7 |
| 4/23/2015 22:11:19 | 40.68 | 39.48 | 876 | 0.87 | 0.33 | 47.9 |
| 4/23/2015 22:11:20 | 41.01 | 39.81 | 873 | 0.88 | 0.33 | 47.7 |
| 4/23/2015 22:11:20 | 41.34 | 40.14 | 873 | 0.88 | 0.33 | 47.7 |
| 4/23/2015 22:11:20 | 41.67 | 40.47 | 870 | 0.92 | 0.33 | 47.6 |
| 4/23/2015 22:11:21 | 41.99 | 40.79 | 864 | 0.92 | 0.33 | 47.3 |
| 4/23/2015 22:11:21 | 42.32 | 41.12 | 862 | 0.91 | 0.33 | 47.1 |
| 4/23/2015 22:11:22 | 42.65 | 41.45 | 853 | 0.91 | 0.33 | 46.7 |
| 4/23/2015 22:11:22 | 42.98 | 41.78 | 853 | 0.91 | 0.33 | 46.7 |
| 4/23/2015 22:11:22 | 43.31 | 42.11 | 861 | 0.91 | 0.33 | 47.1 |
| 4/23/2015 22:11:23 | 43.64 | 42.44 | 864 | 0.90 | 0.32 | 47.3 |
| 4/23/2015 22:11:23 | 43.96 | 42.76 | 870 | 0.88 | 0.33 | 47.6 |
| 4/23/2015 22:11:24 | 44.29 | 43.09 | 879 | 0.86 | 0.33 | 48.1 |
| 4/23/2015 22:11:24 | 44.62 | 43.42 | 879 | 0.86 | 0.33 | 48.1 |
| 4/23/2015 22:11:24 | 44.95 | 43.75 | 884 | 0.86 | 0.33 | 48.4 |
| 4/23/2015 22:11:25 | 45.28 | 44.08 | 890 | 0.83 | 0.33 | 48.7 |
| 4/23/2015 22:11:26 | 45.60 | 44.40 | 896 | 0.87 | 0.33 | 49.0 |
| 4/23/2015 22:11:26 | 45.93 | 44.73 | 896 | 0.87 | 0.33 | 49.0 |
| 4/23/2015 22:11:26 | 46.26 | 45.06 | 875 | 0.86 | 0.32 | 47.9 |
| 4/23/2015 22:11:27 | 46.59 | 45.39 | 886 | 0.81 | 0.33 | 48.5 |
| 4/23/2015 22:11:27 | 46.92 | 45.72 | 883 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 22:11:28 | 47.24 | 46.04 | 883 | 0.20 | 0.33 | 48.3 |
| 4/23/2015 22:11:28 | 47.57 | 46.37 | 886 | 0.20 | 0.33 | 48.5 |
| 4/23/2015 22:11:28 | 47.90 | 46.70 | 881 | 0.18 | 0.33 | 48.2 |
| 4/23/2015 22:11:29 | 48.23 | 47.03 | 904 | 0.20 | 0.33 | 49.5 |
| 4/23/2015 22:11:29 | 48.56 | 47.36 | 893 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 22:11:30 | 48.88 | 47.68 | 893 | 0.20 | 0.33 | 48.9 |
| 4/23/2015 22:11:30 | 49.21 | 48.01 | 899 | 0.20 | 0.33 | 49.1 |
| 4/23/2015 22:11:30 | 49.54 | 48.34 | 890 | 0.20 | 0.32 | 48.7 |
| 4/23/2015 22:11:31 | 49.87 | 48.67 | 896 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 22:11:31 | 50.20 | 49.00 | 896 | 0.20 | 0.32 | 49.0 |
| 4/23/2015 22:11:31 | 50.53 | 49.33 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 22:11:32 | 50.85 | 49.65 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 22:11:32 | 51.18 | 49.98 | 891 | 0.20 | 0.33 | 48.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:11:33 | 51.51 | 50.31 | 891 | 0.20 | 0.33 | 48.7 |
| 4/23/2015 | 22:11:33 | 51.84 | 50.64 | 896 | 0.20 | 0.33 | 49.0 |
| 4/23/2015 | 22:11:33 | 52.17 | 50.97 | 885 | 0.19 | 0.34 | 48.4 |
| 4/23/2015 | 22:11:34 | 52.49 | 51.29 | 852 | 0.20 | 0.35 | 46.6 |
| 4/23/2015 | 22:11:34 | 52.82 | 51.62 | 818 | 0.20 | 0.35 | 44.7 |
| 4/23/2015 | 22:11:35 | 53.15 | 51.95 | 787 | 0.20 | 0.35 | 43.0 |
| 4/23/2015 | 22:11:35 | 53.48 | 52.28 | 743 | -0.08 | 0.35 | 40.6 |
| 4/23/2015 | 22:11:36 | 53.81 | 52.61 | 702 | 0.20 | 0.35 | 38.4 |
| 4/23/2015 | 22:11:37 | 54.13 | 52.93 | 673 | 0.20 | 0.35 | 36.8 |
| 4/23/2015 | 22:11:37 | 54.46 | 53.26 | 647 | 0.20 | 0.35 | 35.4 |
| 4/23/2015 | 22:11:38 | 54.79 | 53.59 | 613 | 0.20 | 0.35 | 33.5 |
| 4/23/2015 | 22:11:39 | 55.12 | 53.92 | 610 | 0.20 | 0.35 | 33.3 |
| 4/23/2015 | 22:11:39 | 55.45 | 54.25 | 606 | 0.20 | 0.36 | 33.2 |
| 4/23/2015 | 22:11:40 | 55.77 | 54.57 | 607 | 0.19 | 0.36 | 33.2 |
| 4/23/2015 | 22:11:40 | 56.10 | 54.90 | 576 | 0.11 | 0.37 | 31.5 |
| 4/23/2015 | 22:11:42 | 56.43 | 55.23 | 454 | 0.19 | 0.39 | 24.8 |
| 4/23/2015 | 22:11:43 | 56.50 | 55.30 | 272 | 0.18 | 0.41 | 14.9 |

## H83 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:07:48

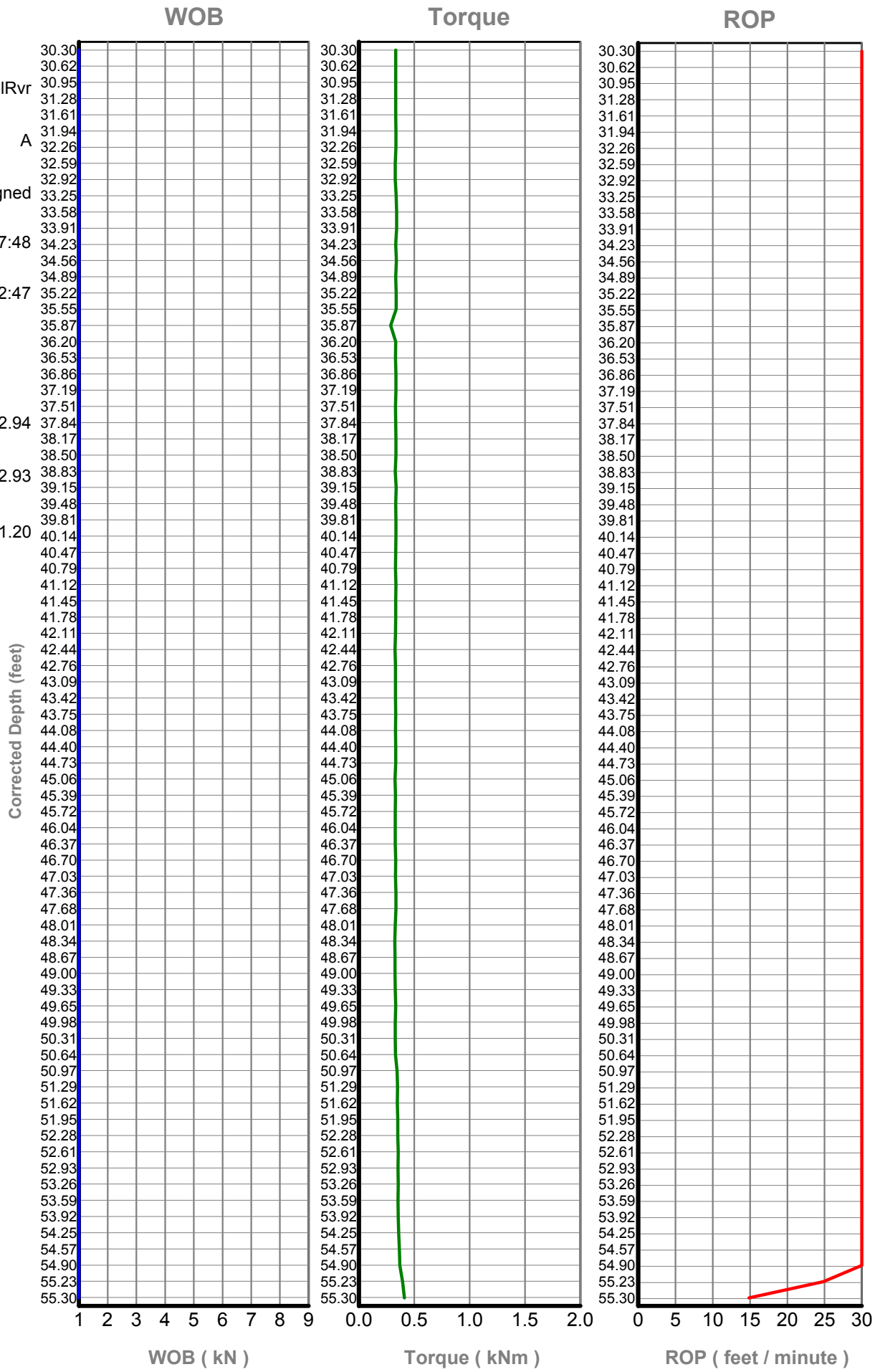
**End Date:**
4/23/2015 22:12:47

**Operator Note:**
'1.2 Auto Complete'

**Northing:**
367,412.94

**Easting:**
251,372.93

**Tide (feet):**
1.20



## Hole: H84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/23/2015 22:12:18 | 31.17 | 30.17 | 615 | 2.01 | 0.17 | 33.6 |
| 4/23/2015 22:12:19 | 31.50 | 30.50 | 621 | 2.00 | 0.17 | 33.9 |
| 4/23/2015 22:12:20 | 31.82 | 30.82 | 623 | 2.00 | 0.17 | 34.1 |
| 4/23/2015 22:12:21 | 32.15 | 31.15 | 617 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 22:12:21 | 32.48 | 31.48 | 620 | 2.01 | 0.17 | 33.9 |
| 4/23/2015 22:12:22 | 32.81 | 31.81 | 625 | 2.00 | 0.17 | 34.2 |
| 4/23/2015 22:12:22 | 33.14 | 32.14 | 622 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:12:23 | 33.46 | 32.46 | 621 | 2.06 | 0.17 | 34.0 |
| 4/23/2015 22:12:23 | 33.79 | 32.79 | 618 | 1.98 | 0.17 | 33.8 |
| 4/23/2015 22:12:24 | 34.12 | 33.12 | 618 | 1.99 | 0.17 | 33.8 |
| 4/23/2015 22:12:24 | 34.45 | 33.45 | 627 | 1.99 | 0.17 | 34.3 |
| 4/23/2015 22:12:25 | 34.78 | 33.78 | 620 | 2.00 | 0.17 | 33.9 |
| 4/23/2015 22:12:25 | 35.11 | 34.11 | 616 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 22:12:26 | 35.43 | 34.43 | 619 | 1.96 | 0.17 | 33.9 |
| 4/23/2015 22:12:27 | 35.76 | 34.76 | 625 | 2.01 | 0.17 | 34.2 |
| 4/23/2015 22:12:27 | 36.09 | 35.09 | 618 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:12:28 | 36.42 | 35.42 | 625 | 2.00 | 0.17 | 34.2 |
| 4/23/2015 22:12:28 | 36.75 | 35.75 | 619 | 2.01 | 0.17 | 33.8 |
| 4/23/2015 22:12:29 | 37.07 | 36.07 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:12:29 | 37.40 | 36.40 | 615 | 2.00 | 0.17 | 33.6 |
| 4/23/2015 22:12:30 | 37.73 | 36.73 | 621 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:12:31 | 38.06 | 37.06 | 625 | 1.99 | 0.17 | 34.2 |
| 4/23/2015 22:12:31 | 38.39 | 37.39 | 622 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:12:32 | 38.71 | 37.71 | 628 | 2.05 | 0.17 | 34.4 |
| 4/23/2015 22:12:33 | 39.04 | 38.04 | 606 | 2.01 | 0.17 | 33.1 |
| 4/23/2015 22:12:33 | 39.37 | 38.37 | 606 | 2.00 | 0.17 | 33.1 |
| 4/23/2015 22:12:34 | 39.70 | 38.70 | 616 | 1.99 | 0.17 | 33.7 |
| 4/23/2015 22:12:34 | 40.03 | 39.03 | 616 | 1.99 | 0.14 | 33.7 |
| 4/23/2015 22:12:35 | 40.35 | 39.35 | 623 | 1.99 | 0.17 | 34.1 |
| 4/23/2015 22:12:35 | 40.68 | 39.68 | 616 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 22:12:36 | 41.01 | 40.01 | 624 | 1.98 | 0.17 | 34.1 |
| 4/23/2015 22:12:36 | 41.34 | 40.34 | 625 | 2.00 | 0.17 | 34.2 |
| 4/23/2015 22:12:37 | 41.67 | 40.67 | 625 | 1.98 | 0.17 | 34.2 |
| 4/23/2015 22:12:38 | 41.99 | 40.99 | 619 | 1.98 | 0.17 | 33.8 |
| 4/23/2015 22:12:38 | 42.32 | 41.32 | 632 | 2.01 | 0.17 | 34.6 |
| 4/23/2015 22:12:39 | 42.65 | 41.65 | 622 | 1.98 | 0.17 | 34.0 |
| 4/23/2015 22:12:39 | 42.98 | 41.98 | 619 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:12:40 | 43.31 | 42.31 | 622 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:12:41 | 43.64 | 42.64 | 622 | 2.00 | 0.17 | 34.0 |
| 4/23/2015 22:12:41 | 43.96 | 42.96 | 616 | 2.02 | 0.17 | 33.7 |
| 4/23/2015 22:12:42 | 44.29 | 43.29 | 616 | 2.01 | 0.17 | 33.7 |
| 4/23/2015 22:12:42 | 44.62 | 43.62 | 615 | 2.02 | 0.17 | 33.6 |
| 4/23/2015 22:12:43 | 44.95 | 43.95 | 619 | 1.98 | 0.17 | 33.8 |
| 4/23/2015 22:12:44 | 45.28 | 44.28 | 619 | 1.99 | 0.18 | 33.8 |
| 4/23/2015 22:12:44 | 45.60 | 44.60 | 616 | 2.02 | 0.17 | 33.7 |
| 4/23/2015 22:12:45 | 45.93 | 44.93 | 616 | 2.01 | 0.17 | 33.7 |
| 4/23/2015 22:12:46 | 46.26 | 45.26 | 616 | 2.01 | 0.17 | 33.7 |
| 4/23/2015 22:12:47 | 46.59 | 45.59 | 616 | 2.01 | 0.17 | 33.7 |
| 4/23/2015 22:12:46 | 46.92 | 45.92 | 614 | 2.00 | 0.17 | 33.6 |
| 4/23/2015 22:12:47 | 47.24 | 46.24 | 617 | 2.00 | 0.17 | 33.8 |
| 4/23/2015 22:12:47 | 47.57 | 46.57 | 620 | 1.99 | 0.17 | 33.9 |
| 4/23/2015 22:12:48 | 47.90 | 46.90 | 611 | 2.00 | 0.17 | 33.4 |
| 4/23/2015 22:12:49 | 48.23 | 47.23 | 612 | 2.02 | 0.17 | 33.5 |
| 4/23/2015 22:12:49 | 48.56 | 47.56 | 618 | 2.02 | 0.17 | 33.8 |
| 4/23/2015 22:12:50 | 48.88 | 47.88 | 611 | 2.01 | 0.17 | 33.4 |
| 4/23/2015 22:12:51 | 49.21 | 48.21 | 612 | 2.01 | 0.17 | 33.5 |
| 4/23/2015 22:12:51 | 49.54 | 48.54 | 624 | 2.01 | 0.17 | 34.1 |
| 4/23/2015 22:12:52 | 49.87 | 48.87 | 616 | 1.98 | 0.17 | 33.7 |
| 4/23/2015 22:12:52 | 50.20 | 49.20 | 616 | 1.97 | 0.17 | 33.7 |
| 4/23/2015 22:12:53 | 50.53 | 49.53 | 616 | 1.80 | 0.17 | 33.7 |
| 4/23/2015 22:12:54 | 50.85 | 49.85 | 616 | 2.02 | 0.17 | 33.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/23/2015 | 22:12:54 | 51.18 | 50.18 | 616 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 | 22:12:55 | 51.51 | 50.51 | 609 | 2.02 | 0.17 | 33.3 |
| 4/23/2015 | 22:12:55 | 51.84 | 50.84 | 616 | 2.00 | 0.17 | 33.7 |
| 4/23/2015 | 22:12:56 | 52.17 | 51.17 | 613 | 2.02 | 0.17 | 33.5 |
| 4/23/2015 | 22:12:56 | 52.49 | 51.49 | 610 | 2.03 | 0.18 | 33.4 |
| 4/23/2015 | 22:13:15 | 52.82 | 51.82 | 25 | 2.06 | 1.25 | 1.4 |
| 4/23/2015 | 22:13:18 | 53.15 | 52.15 | 114 | 2.01 | 1.36 | 6.3 |
| 4/23/2015 | 22:13:22 | 53.48 | 52.48 | 114 | 2.02 | 1.16 | 6.2 |
| 4/23/2015 | 22:13:22 | 53.81 | 52.81 | 126 | 2.01 | 1.14 | 6.9 |
| 4/23/2015 | 22:13:38 | 54.13 | 53.13 | 44 | 2.02 | 1.26 | 2.4 |
| 4/23/2015 | 22:13:48 | 54.46 | 53.46 | 0 | 1.98 | 1.10 | 0.0 |
| 4/23/2015 | 22:13:49 | 54.79 | 53.79 | 131 | 2.01 | 1.10 | 7.2 |
| 4/23/2015 | 22:13:50 | 55.12 | 54.12 | 296 | 2.00 | 1.08 | 16.2 |
| 4/23/2015 | 22:13:51 | 55.45 | 54.45 | 369 | 2.00 | 1.08 | 20.2 |
| 4/23/2015 | 22:13:52 | 55.77 | 54.77 | 412 | 2.00 | 1.09 | 22.5 |
| 4/23/2015 | 22:13:53 | 56.10 | 55.10 | 407 | 2.01 | 1.09 | 22.3 |
| 4/23/2015 | 22:13:54 | 56.43 | 55.43 | 419 | 2.04 | 1.08 | 22.9 |

## H84 - Summary

**Pattern Number:**
AreaH_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/23/2015 22:10:35

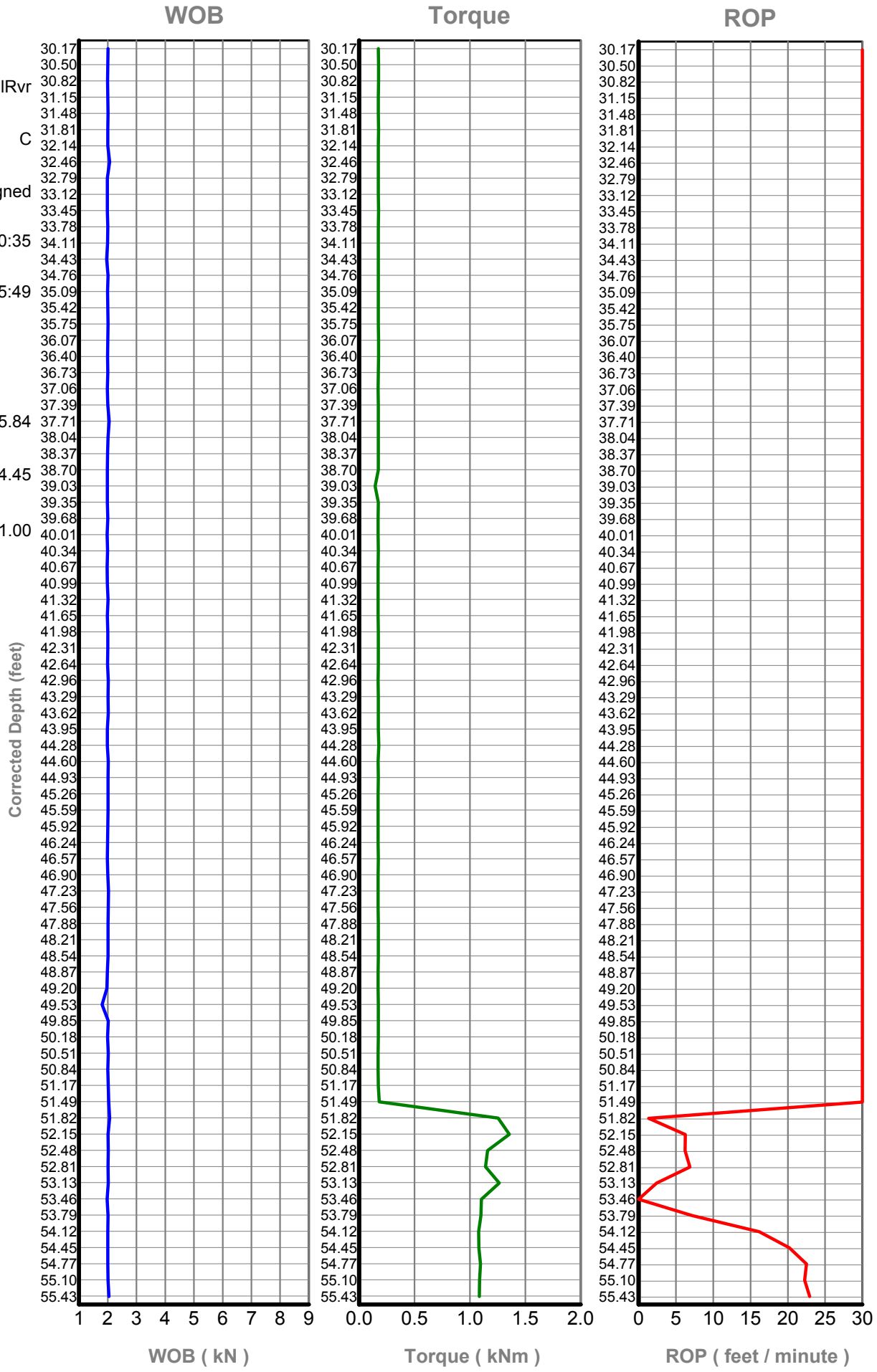
**End Date:**
4/23/2015 22:15:49

**Operator Note:**
'1 1.2 c Auto Complete'

**Northing:**
367,455.84

**Easting:**
251,434.45

**Tide (feet):**
1.00



## Hole: H85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:15:49 | 36.09 | 30.29 | 708 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 9:15:49 | 36.42 | 30.62 | 713 | 1.07 | 0.19 | 39.0 |
| 4/27/2015 9:15:50 | 36.75 | 30.95 | 703 | 1.07 | 0.19 | 38.5 |
| 4/27/2015 9:15:50 | 37.07 | 31.27 | 723 | 1.07 | 0.19 | 39.6 |
| 4/27/2015 9:15:51 | 37.40 | 31.60 | 706 | 1.06 | 0.19 | 38.6 |
| 4/27/2015 9:15:51 | 37.73 | 31.93 | 714 | 1.05 | 0.19 | 39.0 |
| 4/27/2015 9:15:52 | 38.06 | 32.26 | 714 | 1.06 | 0.19 | 39.0 |
| 4/27/2015 9:15:52 | 38.39 | 32.59 | 714 | 1.06 | 0.19 | 39.0 |
| 4/27/2015 9:15:52 | 38.71 | 32.91 | 715 | 1.06 | 0.19 | 39.1 |
| 4/27/2015 9:15:53 | 39.04 | 33.24 | 719 | 1.06 | 0.19 | 39.3 |
| 4/27/2015 9:15:53 | 39.37 | 33.57 | 719 | 1.07 | 0.19 | 39.3 |
| 4/27/2015 9:15:54 | 39.70 | 33.90 | 705 | 1.06 | 0.19 | 38.5 |
| 4/27/2015 9:15:54 | 40.03 | 34.23 | 705 | 1.07 | 0.19 | 38.5 |
| 4/27/2015 9:15:55 | 40.35 | 34.55 | 722 | 1.05 | 0.19 | 39.5 |
| 4/27/2015 9:15:55 | 40.68 | 34.88 | 719 | 1.05 | 0.19 | 39.3 |
| 4/27/2015 9:15:56 | 41.01 | 35.21 | 707 | 1.05 | 0.19 | 38.7 |
| 4/27/2015 9:15:56 | 41.34 | 35.54 | 716 | 1.07 | 0.19 | 39.1 |
| 4/27/2015 9:15:57 | 41.67 | 35.87 | 718 | 1.06 | 0.19 | 39.3 |
| 4/27/2015 9:15:58 | 41.99 | 36.19 | 717 | 1.05 | 0.19 | 39.2 |
| 4/27/2015 9:15:58 | 42.32 | 36.52 | 709 | 1.05 | 0.19 | 38.8 |
| 4/27/2015 9:15:59 | 42.65 | 36.85 | 721 | 1.06 | 0.19 | 39.4 |
| 4/27/2015 9:15:59 | 42.98 | 37.18 | 710 | 1.05 | 0.19 | 38.8 |
| 4/27/2015 9:16:00 | 43.31 | 37.51 | 719 | 1.06 | 0.19 | 39.3 |
| 4/27/2015 9:16:00 | 43.64 | 37.84 | 707 | 1.06 | 0.19 | 38.7 |
| 4/27/2015 9:16:01 | 43.96 | 38.16 | 727 | 1.06 | 0.19 | 39.8 |
| 4/27/2015 9:16:01 | 44.29 | 38.49 | 720 | 1.07 | 0.19 | 39.4 |
| 4/27/2015 9:16:02 | 44.62 | 38.82 | 724 | 1.05 | 0.19 | 39.6 |
| 4/27/2015 9:16:02 | 44.95 | 39.15 | 712 | 1.06 | 0.19 | 38.9 |
| 4/27/2015 9:16:03 | 45.28 | 39.48 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 9:16:03 | 45.60 | 39.80 | 711 | 1.06 | 0.19 | 38.9 |
| 4/27/2015 9:16:04 | 45.93 | 40.13 | 707 | 1.06 | 0.19 | 38.7 |
| 4/27/2015 9:16:04 | 46.26 | 40.46 | 711 | 1.05 | 0.19 | 38.9 |
| 4/27/2015 9:16:05 | 46.59 | 40.79 | 711 | 1.05 | 0.19 | 38.9 |
| 4/27/2015 9:16:05 | 46.92 | 41.12 | 714 | 1.07 | 0.19 | 39.0 |
| 4/27/2015 9:16:05 | 47.24 | 41.44 | 711 | 1.06 | 0.19 | 38.9 |
| 4/27/2015 9:16:06 | 47.57 | 41.77 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 9:16:06 | 47.90 | 42.10 | 711 | 1.07 | 0.19 | 38.9 |
| 4/27/2015 9:16:07 | 48.23 | 42.43 | 714 | 1.05 | 0.19 | 39.0 |
| 4/27/2015 9:16:08 | 48.56 | 42.76 | 711 | 1.05 | 0.19 | 38.9 |
| 4/27/2015 9:16:08 | 48.88 | 43.08 | 699 | 1.06 | 0.19 | 38.2 |
| 4/27/2015 9:16:09 | 49.21 | 43.41 | 699 | 1.07 | 0.19 | 38.2 |
| 4/27/2015 9:16:09 | 49.54 | 43.74 | 707 | 1.05 | 0.19 | 38.7 |
| 4/27/2015 9:16:10 | 49.87 | 44.07 | 712 | 1.05 | 0.19 | 38.9 |
| 4/27/2015 9:16:10 | 50.20 | 44.40 | 707 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 9:16:11 | 50.53 | 44.73 | 707 | 1.07 | 0.19 | 38.7 |
| 4/27/2015 9:16:11 | 50.85 | 45.05 | 722 | 1.05 | 0.19 | 39.5 |
| 4/27/2015 9:16:12 | 51.18 | 45.38 | 711 | 1.09 | 0.19 | 38.9 |
| 4/27/2015 9:16:30 | 51.51 | 45.71 | 78 | 1.08 | 1.29 | 4.3 |
| 4/27/2015 9:16:37 | 51.84 | 46.04 | 46 | 0.40 | 0.97 | 2.5 |
| 4/27/2015 9:16:40 | 52.17 | 46.37 | 67 | 1.00 | 0.89 | 3.7 |
| 4/27/2015 9:16:42 | 52.49 | 46.69 | 236 | 1.11 | 1.07 | 12.9 |
| 4/27/2015 9:16:44 | 52.82 | 47.02 | 223 | 0.33 | 0.89 | 12.2 |
| 4/27/2015 9:16:46 | 53.15 | 47.35 | 174 | 0.98 | 1.11 | 9.5 |
| 4/27/2015 9:16:47 | 53.48 | 47.68 | 222 | 1.11 | 1.24 | 12.1 |
| 4/27/2015 9:16:49 | 53.81 | 48.01 | 268 | 0.96 | 1.18 | 14.7 |
| 4/27/2015 9:16:50 | 54.13 | 48.33 | 279 | 1.05 | 1.28 | 15.3 |
| 4/27/2015 9:16:51 | 54.46 | 48.66 | 342 | 1.02 | 0.70 | 18.7 |
| 4/27/2015 9:16:52 | 54.79 | 48.99 | 341 | 1.01 | 0.69 | 18.6 |
| 4/27/2015 9:16:52 | 55.12 | 49.32 | 387 | 1.05 | 0.69 | 21.2 |
| 4/27/2015 9:16:53 | 55.45 | 49.65 | 425 | 1.00 | 0.70 | 23.3 |
| 4/27/2015 9:16:54 | 55.77 | 49.97 | 537 | 1.01 | 0.70 | 29.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:16:54 | 56.10 | 50.30 | 584 | 1.05 | 0.76 | 31.9 |
| 4/27/2015 | 9:16:55 | 56.43 | 50.63 | 581 | 0.99 | 0.94 | 31.8 |
| 4/27/2015 | 9:16:56 | 56.76 | 50.96 | 546 | 1.03 | 0.91 | 29.9 |
| 4/27/2015 | 9:16:57 | 57.09 | 51.29 | 443 | 1.53 | 0.70 | 24.2 |
| 4/27/2015 | 9:16:57 | 57.41 | 51.61 | 355 | 1.76 | 0.75 | 19.4 |
| 4/27/2015 | 9:16:59 | 57.74 | 51.94 | 265 | 1.77 | 0.73 | 14.5 |
| 4/27/2015 | 9:17:00 | 58.07 | 52.27 | 373 | 1.75 | 0.74 | 20.4 |
| 4/27/2015 | 9:17:01 | 58.40 | 52.60 | 334 | 1.77 | 0.79 | 18.2 |
| 4/27/2015 | 9:17:02 | 58.73 | 52.93 | 408 | 1.80 | 0.92 | 22.3 |
| 4/27/2015 | 9:17:03 | 59.06 | 53.26 | 343 | 1.57 | 0.72 | 18.8 |
| 4/27/2015 | 9:17:04 | 59.38 | 53.58 | 310 | 0.95 | 0.82 | 17.0 |
| 4/27/2015 | 9:17:05 | 59.71 | 53.91 | 316 | 1.06 | 0.82 | 17.3 |
| 4/27/2015 | 9:17:06 | 60.04 | 54.24 | 349 | 1.00 | 0.82 | 19.1 |
| 4/27/2015 | 9:17:07 | 60.37 | 54.57 | 390 | 1.01 | 0.83 | 21.3 |
| 4/27/2015 | 9:17:08 | 60.70 | 54.90 | 399 | 1.11 | 0.82 | 21.8 |
| 4/27/2015 | 9:17:09 | 61.02 | 55.22 | 408 | 0.87 | 0.80 | 22.3 |

## H85 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 9:14:17

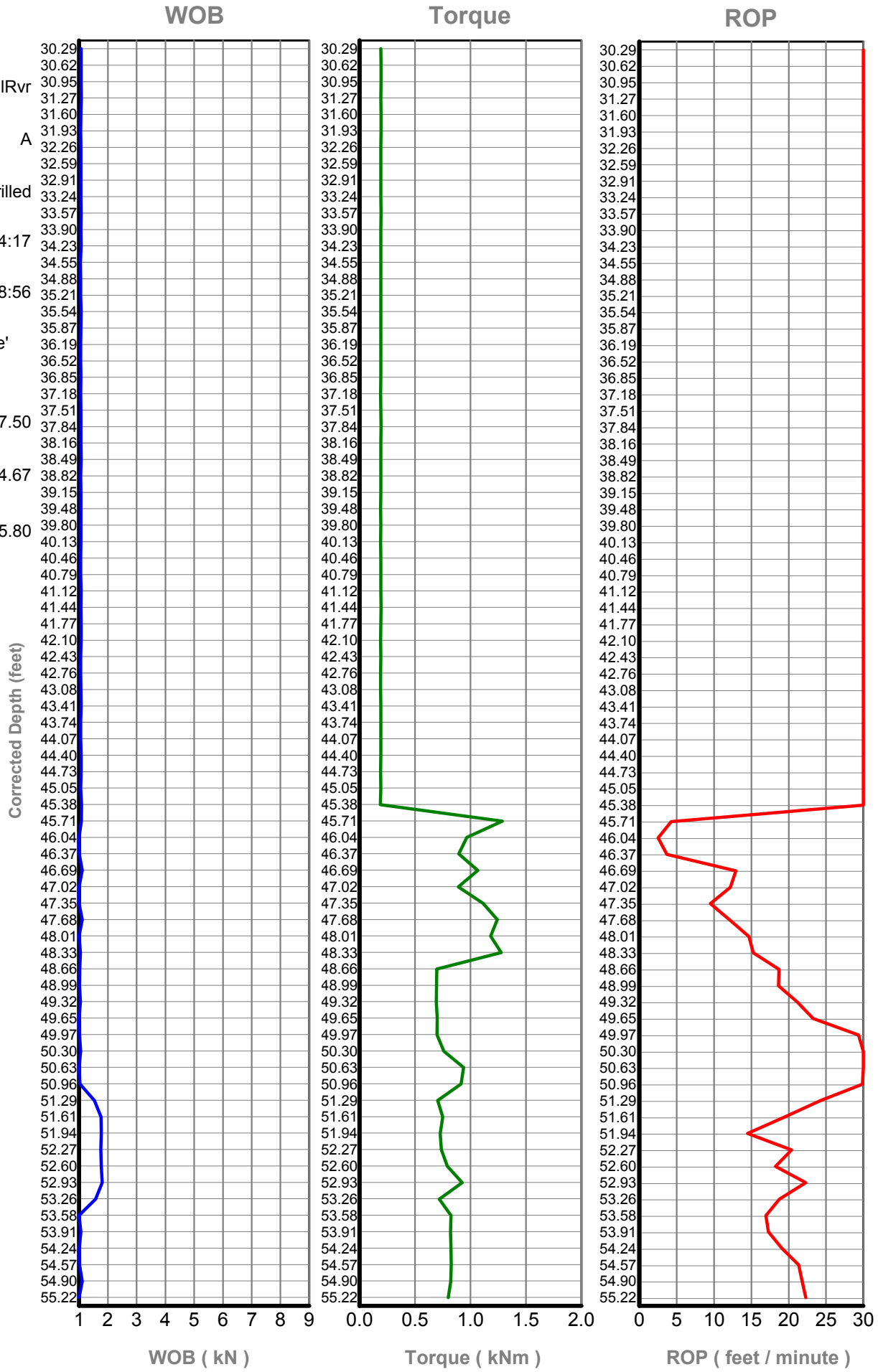
**End Date:**
4/27/2015 9:18:56

**Operator Note:**
'5.8 5.8 a Auto Complete'

**Northing:**
365,487.50

**Easting:**
249,094.67

**Tide (feet):**
5.80



## Hole: H86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:11:52 | 36.09 | 30.29 | 1,047 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:11:52 | 36.42 | 30.62 | 1,047 | 0.29 | 0.31 | 57.2 |
| 4/27/2015 9:11:52 | 36.75 | 30.95 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 9:11:53 | 37.07 | 31.27 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 9:11:53 | 37.40 | 31.60 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 9:11:53 | 37.73 | 31.93 | 1,050 | 0.29 | 0.32 | 57.4 |
| 4/27/2015 9:11:54 | 38.06 | 32.26 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 9:11:54 | 38.39 | 32.59 | 1,041 | 0.30 | 0.31 | 56.9 |
| 4/27/2015 9:11:54 | 38.71 | 32.91 | 1,050 | 0.29 | 0.31 | 57.4 |
| 4/27/2015 9:11:55 | 39.04 | 33.24 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 9:11:55 | 39.37 | 33.57 | 1,044 | 0.30 | 0.31 | 57.1 |
| 4/27/2015 9:11:55 | 39.70 | 33.90 | 1,046 | 0.30 | 0.32 | 57.2 |
| 4/27/2015 9:11:56 | 40.03 | 34.23 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 9:11:56 | 40.35 | 34.55 | 1,044 | 0.29 | 0.31 | 57.1 |
| 4/27/2015 9:11:56 | 40.68 | 34.88 | 1,041 | 0.29 | 0.31 | 56.9 |
| 4/27/2015 9:11:57 | 41.01 | 35.21 | 1,031 | 0.29 | 0.31 | 56.4 |
| 4/27/2015 9:11:57 | 41.34 | 35.54 | 1,031 | 0.29 | 0.31 | 56.4 |
| 4/27/2015 9:11:57 | 41.67 | 35.87 | 1,023 | 0.29 | 0.32 | 55.9 |
| 4/27/2015 9:11:58 | 41.99 | 36.19 | 1,023 | 0.30 | 0.31 | 55.9 |
| 4/27/2015 9:11:58 | 42.32 | 36.52 | 1,023 | 0.30 | 0.31 | 55.9 |
| 4/27/2015 9:11:58 | 42.65 | 36.85 | 1,033 | 0.30 | 0.31 | 56.5 |
| 4/27/2015 9:11:59 | 42.98 | 37.18 | 1,033 | 0.30 | 0.31 | 56.5 |
| 4/27/2015 9:11:59 | 43.31 | 37.51 | 1,026 | 0.33 | 0.31 | 56.1 |
| 4/27/2015 9:11:59 | 43.64 | 37.84 | 1,032 | 0.29 | 0.31 | 56.5 |
| 4/27/2015 9:12:00 | 43.96 | 38.16 | 1,032 | 0.29 | 0.31 | 56.5 |
| 4/27/2015 9:12:00 | 44.29 | 38.49 | 1,042 | 0.30 | 0.32 | 57.0 |
| 4/27/2015 9:12:00 | 44.62 | 38.82 | 1,047 | 0.30 | 0.32 | 57.3 |
| 4/27/2015 9:12:01 | 44.95 | 39.15 | 1,047 | 0.30 | 0.32 | 57.3 |
| 4/27/2015 9:12:01 | 45.28 | 39.48 | 1,031 | 0.30 | 0.31 | 56.4 |
| 4/27/2015 9:12:02 | 45.60 | 39.80 | 1,038 | 0.29 | 0.32 | 56.8 |
| 4/27/2015 9:12:02 | 45.93 | 40.13 | 1,038 | 0.29 | 0.32 | 56.8 |
| 4/27/2015 9:12:02 | 46.26 | 40.46 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 9:12:03 | 46.59 | 40.79 | 1,032 | 0.30 | 0.31 | 56.4 |
| 4/27/2015 9:12:03 | 46.92 | 41.12 | 1,032 | 0.30 | 0.31 | 56.4 |
| 4/27/2015 9:12:03 | 47.24 | 41.44 | 1,035 | 0.30 | 0.31 | 56.6 |
| 4/27/2015 9:12:04 | 47.57 | 41.77 | 1,038 | 0.30 | 0.31 | 56.8 |
| 4/27/2015 9:12:04 | 47.90 | 42.10 | 1,038 | 0.30 | 0.31 | 56.8 |
| 4/27/2015 9:12:04 | 48.23 | 42.43 | 1,032 | 0.30 | 0.32 | 56.4 |
| 4/27/2015 9:12:05 | 48.56 | 42.76 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/27/2015 9:12:05 | 48.88 | 43.08 | 1,029 | 0.30 | 0.32 | 56.3 |
| 4/27/2015 9:12:05 | 49.21 | 43.41 | 1,014 | 0.29 | 0.31 | 55.5 |
| 4/27/2015 9:12:06 | 49.54 | 43.74 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/27/2015 9:12:06 | 49.87 | 44.07 | 1,018 | 0.31 | 0.32 | 55.6 |
| 4/27/2015 9:12:06 | 50.20 | 44.40 | 986 | 0.29 | 0.31 | 53.9 |
| 4/27/2015 9:12:07 | 50.53 | 44.73 | 993 | 0.30 | 0.32 | 54.3 |
| 4/27/2015 9:12:07 | 50.85 | 45.05 | 993 | 0.31 | 0.32 | 54.3 |
| 4/27/2015 9:12:08 | 51.18 | 45.38 | 993 | 0.31 | 0.32 | 54.3 |
| 4/27/2015 9:12:08 | 51.51 | 45.71 | 1,005 | 0.30 | 0.31 | 55.0 |
| 4/27/2015 9:12:08 | 51.84 | 46.04 | 989 | 0.30 | 0.31 | 54.1 |
| 4/27/2015 9:12:09 | 52.17 | 46.37 | 989 | 0.30 | 0.31 | 54.1 |
| 4/27/2015 9:12:09 | 52.49 | 46.69 | 989 | 0.29 | 0.35 | 54.1 |
| 4/27/2015 9:12:15 | 52.82 | 47.02 | 41 | 2.56 | 0.33 | 2.3 |
| 4/27/2015 9:12:16 | 53.15 | 47.35 | 170 | 2.95 | 0.36 | 9.3 |
| 4/27/2015 9:12:16 | 53.48 | 47.68 | 290 | 2.81 | 0.36 | 15.9 |
| 4/27/2015 9:12:17 | 53.81 | 48.01 | 429 | 3.37 | 0.38 | 23.4 |
| 4/27/2015 9:12:20 | 54.13 | 48.33 | 128 | 3.78 | 0.40 | 7.0 |
| 4/27/2015 9:12:21 | 54.46 | 48.66 | 116 | 3.64 | 0.37 | 6.3 |
| 4/27/2015 9:12:23 | 54.79 | 48.99 | 287 | 3.16 | 0.35 | 15.7 |
| 4/27/2015 9:12:28 | 55.12 | 49.32 | 0 | 3.28 | 0.36 | 0.0 |
| 4/27/2015 9:12:29 | 55.45 | 49.65 | 91 | 4.17 | 0.38 | 5.0 |
| 4/27/2015 9:12:30 | 55.77 | 49.97 | 247 | 2.90 | 0.36 | 13.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:12:31 | 56.10 | 50.30 | 324 | 3.33 | 0.35 | 17.7 |
| 4/27/2015 | 9:12:32 | 56.43 | 50.63 | 399 | 2.47 | 0.35 | 21.8 |
| 4/27/2015 | 9:12:59 | 56.76 | 50.96 | 0 | 2.40 | 0.35 | 0.0 |
| 4/27/2015 | 9:13:00 | 57.09 | 51.29 | 78 | 2.65 | 0.36 | 4.2 |
| 4/27/2015 | 9:13:00 | 57.41 | 51.61 | 190 | 2.25 | 0.35 | 10.4 |
| 4/27/2015 | 9:13:01 | 57.74 | 51.94 | 301 | 2.13 | 0.35 | 16.5 |
| 4/27/2015 | 9:13:02 | 58.07 | 52.27 | 554 | 2.29 | 0.35 | 30.3 |
| 4/27/2015 | 9:13:02 | 58.40 | 52.60 | 590 | 2.29 | 0.35 | 32.3 |
| 4/27/2015 | 9:13:03 | 58.73 | 52.93 | 599 | 2.93 | 0.36 | 32.7 |
| 4/27/2015 | 9:13:03 | 59.06 | 53.26 | 596 | 2.44 | 0.36 | 32.6 |
| 4/27/2015 | 9:13:05 | 59.38 | 53.58 | 544 | 2.63 | 0.37 | 29.7 |
| 4/27/2015 | 9:13:06 | 59.71 | 53.91 | 460 | 3.77 | 0.39 | 25.1 |
| 4/27/2015 | 9:13:07 | 60.04 | 54.24 | 284 | 3.71 | 0.38 | 15.5 |
| 4/27/2015 | 9:13:09 | 60.37 | 54.57 | 203 | 3.44 | 0.38 | 11.1 |
| 4/27/2015 | 9:13:13 | 60.70 | 54.90 | 69 | 3.23 | 0.38 | 3.8 |
| 4/27/2015 | 9:13:13 | 60.84 | 55.04 | 95 | 3.18 | 0.39 | 5.2 |

## H86 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:02:51

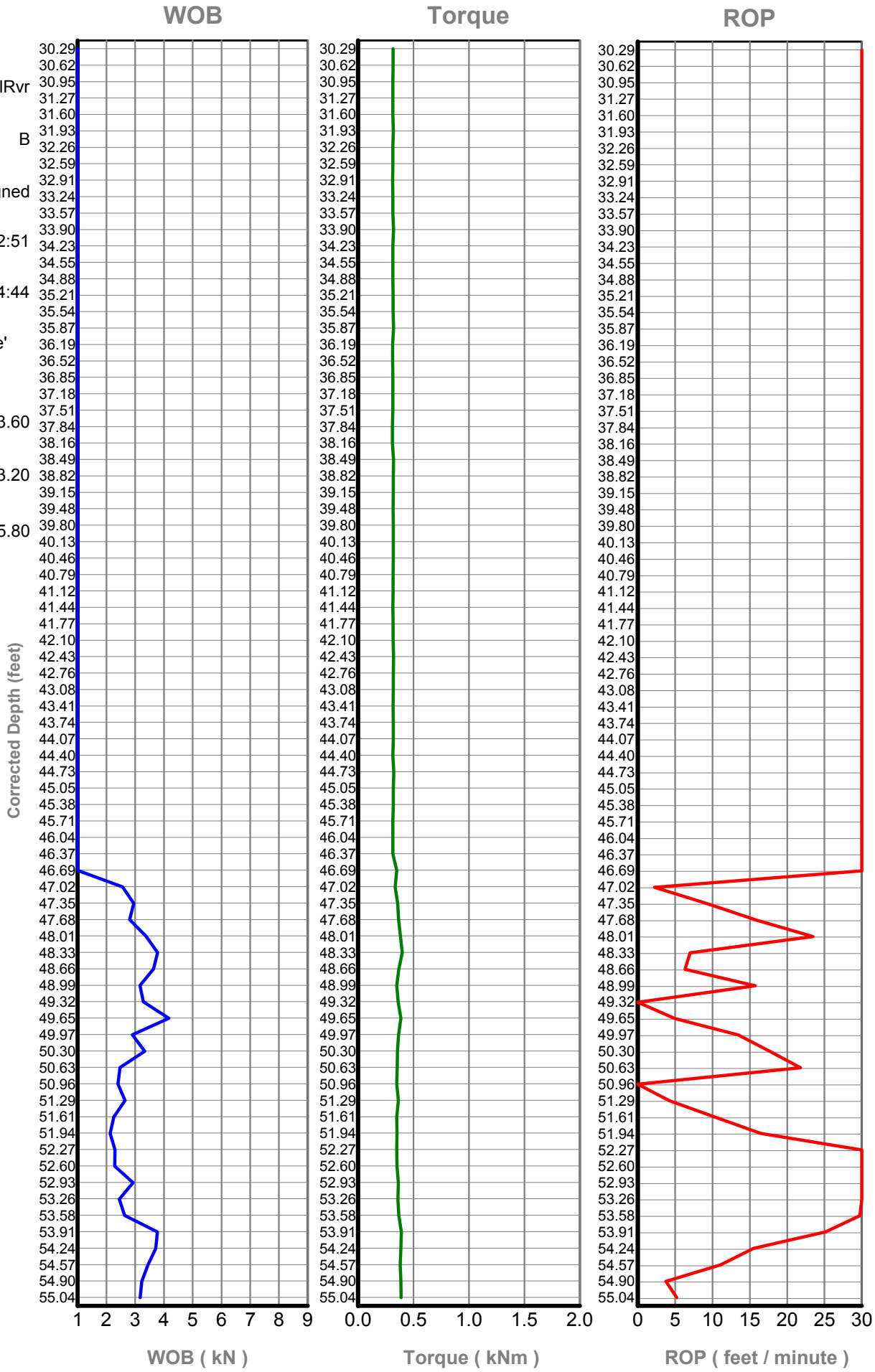
**End Date:**
4/27/2015 9:14:44

**Operator Note:**
'5.8 5.8 b Auto Complete'

**Northing:**
365,533.60

**Easting:**
249,153.20

**Tide (feet):**
5.80



## Hole: H87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 9:12:13 | 36.09 | 30.29 | 601 | 1.76 | 0.29 | 32.9 |
| 4/27/2015 9:12:14 | 36.42 | 30.62 | 601 | 1.79 | 0.29 | 32.9 |
| 4/27/2015 9:12:15 | 36.75 | 30.95 | 604 | 1.78 | 0.29 | 33.0 |
| 4/27/2015 9:12:16 | 37.07 | 31.27 | 608 | 1.78 | 0.29 | 33.2 |
| 4/27/2015 9:12:16 | 37.40 | 31.60 | 601 | 1.76 | 0.29 | 32.9 |
| 4/27/2015 9:12:17 | 37.73 | 31.93 | 601 | 1.79 | 0.29 | 32.9 |
| 4/27/2015 9:12:17 | 38.06 | 32.26 | 604 | 1.76 | 0.29 | 33.0 |
| 4/27/2015 9:12:18 | 38.39 | 32.59 | 604 | 1.76 | 0.29 | 33.0 |
| 4/27/2015 9:12:18 | 38.71 | 32.91 | 588 | 1.76 | 0.29 | 32.2 |
| 4/27/2015 9:12:19 | 39.04 | 33.24 | 597 | 1.76 | 0.29 | 32.7 |
| 4/27/2015 9:12:20 | 39.37 | 33.57 | 581 | 1.77 | 0.29 | 31.8 |
| 4/27/2015 9:12:20 | 39.70 | 33.90 | 581 | 1.78 | 0.29 | 31.8 |
| 4/27/2015 9:12:21 | 40.03 | 34.23 | 580 | 1.77 | 0.29 | 31.7 |
| 4/27/2015 9:12:21 | 40.35 | 34.55 | 580 | 1.78 | 0.29 | 31.7 |
| 4/27/2015 9:12:22 | 40.68 | 34.88 | 589 | 1.77 | 0.29 | 32.2 |
| 4/27/2015 9:12:22 | 41.01 | 35.21 | 592 | 1.77 | 0.29 | 32.4 |
| 4/27/2015 9:12:23 | 41.34 | 35.54 | 588 | 1.81 | 0.28 | 32.2 |
| 4/27/2015 9:12:24 | 41.67 | 35.87 | 608 | 1.74 | 0.29 | 33.3 |
| 4/27/2015 9:12:25 | 41.99 | 36.19 | 592 | 1.78 | 0.29 | 32.4 |
| 4/27/2015 9:12:25 | 42.32 | 36.52 | 587 | 1.76 | 0.28 | 32.1 |
| 4/27/2015 9:12:26 | 42.65 | 36.85 | 587 | 1.77 | 0.29 | 32.1 |
| 4/27/2015 9:12:26 | 42.98 | 37.18 | 593 | 1.79 | 0.29 | 32.4 |
| 4/27/2015 9:12:27 | 43.31 | 37.51 | 591 | 1.77 | 0.29 | 32.3 |
| 4/27/2015 9:12:28 | 43.64 | 37.84 | 586 | 1.77 | 0.29 | 32.1 |
| 4/27/2015 9:12:28 | 43.96 | 38.16 | 601 | 1.79 | 0.29 | 32.9 |
| 4/27/2015 9:12:29 | 44.29 | 38.49 | 588 | 1.77 | 0.29 | 32.1 |
| 4/27/2015 9:12:29 | 44.62 | 38.82 | 588 | 1.79 | 0.29 | 32.1 |
| 4/27/2015 9:12:30 | 44.95 | 39.15 | 599 | 1.75 | 0.28 | 32.8 |
| 4/27/2015 9:12:30 | 45.28 | 39.48 | 599 | 1.79 | 0.29 | 32.8 |
| 4/27/2015 9:12:31 | 45.60 | 39.80 | 576 | 1.79 | 0.29 | 31.5 |
| 4/27/2015 9:12:32 | 45.93 | 40.13 | 588 | 1.76 | 0.29 | 32.1 |
| 4/27/2015 9:12:32 | 46.26 | 40.46 | 590 | 1.81 | 0.29 | 32.3 |
| 4/27/2015 9:12:33 | 46.59 | 40.79 | 590 | 1.76 | 0.29 | 32.3 |
| 4/27/2015 9:12:33 | 46.92 | 41.12 | 585 | 1.76 | 0.29 | 32.0 |
| 4/27/2015 9:12:34 | 47.24 | 41.44 | 581 | 1.75 | 0.29 | 31.8 |
| 4/27/2015 9:12:35 | 47.57 | 41.77 | 591 | 1.76 | 0.29 | 32.3 |
| 4/27/2015 9:12:36 | 47.90 | 42.10 | 585 | 1.77 | 0.29 | 32.0 |
| 4/27/2015 9:12:36 | 48.23 | 42.43 | 585 | 1.75 | 0.29 | 32.0 |
| 4/27/2015 9:12:37 | 48.56 | 42.76 | 585 | 1.77 | 0.29 | 32.0 |
| 4/27/2015 9:12:37 | 48.88 | 43.08 | 582 | 1.77 | 0.29 | 31.8 |
| 4/27/2015 9:12:38 | 49.21 | 43.41 | 583 | 1.79 | 0.29 | 31.9 |
| 4/27/2015 9:12:39 | 49.54 | 43.74 | 587 | 1.77 | 0.29 | 32.1 |
| 4/27/2015 9:12:39 | 49.87 | 44.07 | 569 | 1.78 | 0.29 | 31.1 |
| 4/27/2015 9:12:40 | 50.20 | 44.40 | 569 | 1.78 | 0.29 | 31.1 |
| 4/27/2015 9:12:40 | 50.53 | 44.73 | 580 | 1.79 | 0.29 | 31.7 |
| 4/27/2015 9:12:56 | 50.85 | 45.05 | 0 | 1.76 | 0.91 | 0.0 |
| 4/27/2015 9:12:57 | 51.18 | 45.38 | 105 | 1.74 | 1.15 | 5.8 |
| 4/27/2015 9:13:00 | 51.51 | 45.71 | 181 | 1.77 | 1.08 | 9.9 |
| 4/27/2015 9:13:01 | 51.84 | 46.04 | 214 | 1.77 | 1.07 | 11.7 |
| 4/27/2015 9:13:03 | 52.17 | 46.37 | 264 | 1.74 | 1.17 | 14.5 |
| 4/27/2015 9:13:04 | 52.49 | 46.69 | 253 | 1.74 | 1.14 | 13.9 |
| 4/27/2015 9:13:25 | 52.82 | 47.02 | 18 | 1.72 | 1.15 | 1.0 |
| 4/27/2015 9:13:27 | 53.15 | 47.35 | 179 | 1.75 | 1.17 | 9.8 |
| 4/27/2015 9:13:29 | 53.48 | 47.68 | 179 | 1.73 | 1.13 | 9.8 |
| 4/27/2015 9:13:32 | 53.81 | 48.01 | 142 | 1.79 | 1.13 | 7.7 |
| 4/27/2015 9:13:34 | 54.13 | 48.33 | 142 | 1.77 | 1.10 | 7.7 |
| 4/27/2015 9:14:00 | 54.46 | 48.66 | 20 | 1.76 | 1.13 | 1.1 |
| 4/27/2015 9:14:02 | 54.79 | 48.99 | 118 | 1.73 | 1.11 | 6.4 |
| 4/27/2015 9:14:04 | 55.12 | 49.32 | 173 | 1.77 | 1.18 | 9.4 |
| 4/27/2015 9:14:07 | 55.45 | 49.65 | 134 | 1.75 | 1.07 | 7.3 |
| 4/27/2015 9:14:10 | 55.77 | 49.97 | 131 | 1.75 | 1.12 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 9:14:12 | 56.10 | 50.30 | 137 | 1.74 | 1.12 | 7.5 |
| 4/27/2015 | 9:14:17 | 56.43 | 50.63 | 66 | 1.77 | 1.12 | 3.6 |
| 4/27/2015 | 9:14:22 | 56.76 | 50.96 | 87 | 1.76 | 1.11 | 4.7 |
| 4/27/2015 | 9:14:24 | 57.09 | 51.29 | 116 | 1.78 | 1.08 | 6.3 |
| 4/27/2015 | 9:14:30 | 57.41 | 51.61 | 57 | 1.78 | 1.08 | 3.1 |
| 4/27/2015 | 9:14:36 | 57.74 | 51.94 | 51 | 1.77 | 1.10 | 2.8 |
| 4/27/2015 | 9:14:43 | 58.07 | 52.27 | 60 | 1.79 | 1.17 | 3.3 |
| 4/27/2015 | 9:14:47 | 58.33 | 52.53 | 61 | 1.80 | 1.18 | 3.3 |

## H87 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 9:10:36

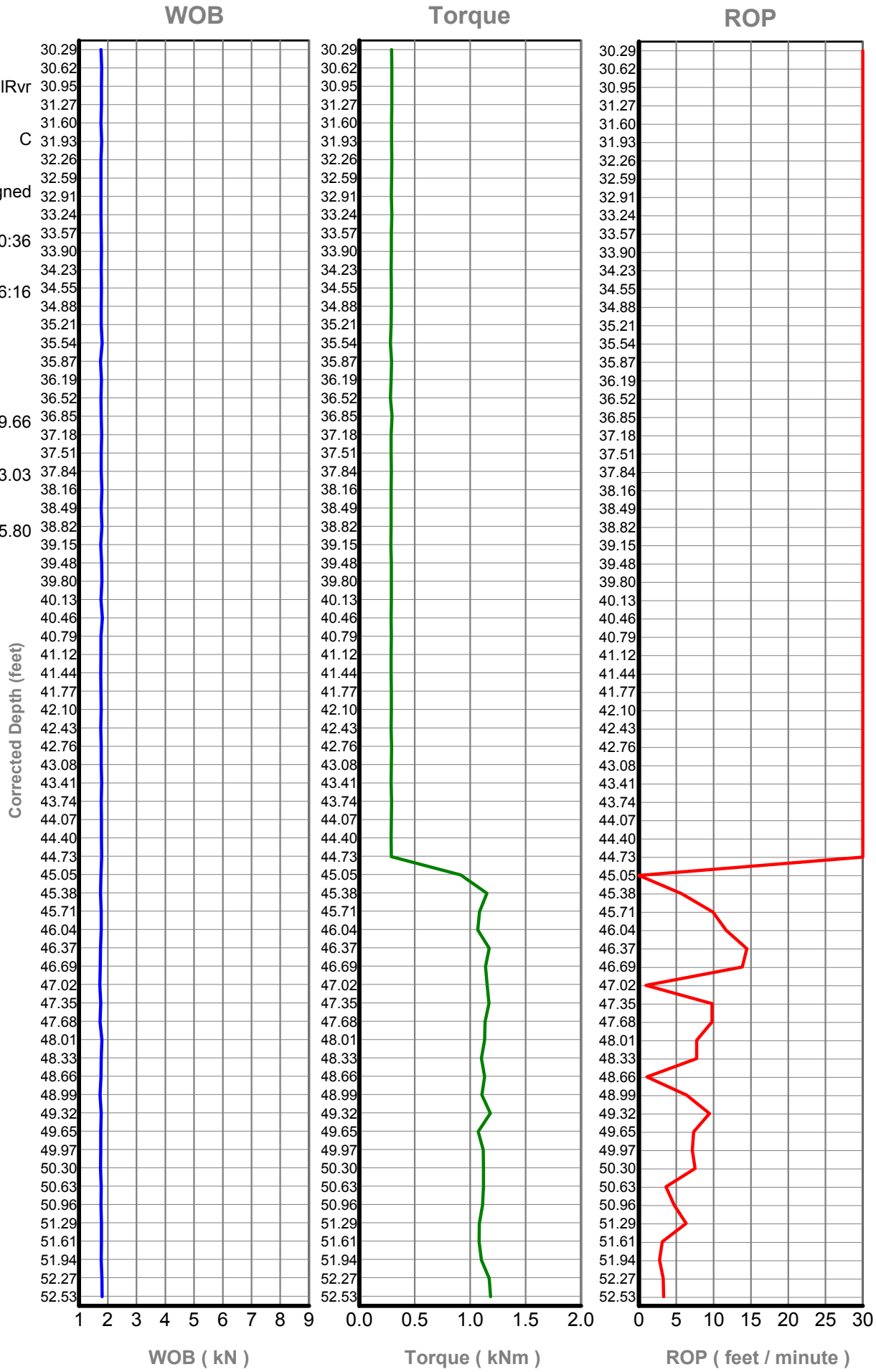
**End Date:**
4/27/2015 9:16:16

**Operator Note:**
'5.8 5.8 C Auto Complete'

**Northing:**
365,579.66

**Easting:**
249,213.03

**Tide (feet):**
5.80



## Hole: H88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 5:01:07 | 34.12 | 30.22 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 5:01:07 | 34.45 | 30.55 | 1,017 | 0.33 | 0.32 | 55.6 |
| 4/27/2015 5:01:08 | 34.78 | 30.88 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 5:01:08 | 35.11 | 31.21 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 5:01:08 | 35.43 | 31.53 | 1,014 | 0.33 | 0.32 | 55.5 |
| 4/27/2015 5:01:09 | 35.76 | 31.86 | 1,020 | 0.33 | 0.32 | 55.8 |
| 4/27/2015 5:01:09 | 36.09 | 32.19 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 5:01:10 | 36.42 | 32.52 | 1,015 | 0.35 | 0.32 | 55.5 |
| 4/27/2015 5:01:10 | 36.75 | 32.85 | 1,006 | 0.33 | 0.33 | 55.0 |
| 4/27/2015 5:01:10 | 37.07 | 33.17 | 997 | 0.34 | 0.32 | 54.5 |
| 4/27/2015 5:01:11 | 37.40 | 33.50 | 997 | 0.34 | 0.32 | 54.5 |
| 4/27/2015 5:01:11 | 37.73 | 33.83 | 994 | 0.35 | 0.32 | 54.4 |
| 4/27/2015 5:01:11 | 38.06 | 34.16 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:01:12 | 38.39 | 34.49 | 989 | 0.33 | 0.33 | 54.1 |
| 4/27/2015 5:01:12 | 38.71 | 34.81 | 986 | 0.33 | 0.33 | 53.9 |
| 4/27/2015 5:01:12 | 39.04 | 35.14 | 986 | 0.33 | 0.32 | 53.9 |
| 4/27/2015 5:01:13 | 39.37 | 35.47 | 986 | 0.33 | 0.32 | 53.9 |
| 4/27/2015 5:01:13 | 39.70 | 35.80 | 994 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 5:01:13 | 40.03 | 36.13 | 994 | 0.33 | 0.32 | 54.4 |
| 4/27/2015 5:01:14 | 40.35 | 36.45 | 994 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 5:01:14 | 40.68 | 36.78 | 994 | 0.34 | 0.32 | 54.4 |
| 4/27/2015 5:01:14 | 41.01 | 37.11 | 997 | 0.35 | 0.33 | 54.5 |
| 4/27/2015 5:01:15 | 41.34 | 37.44 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 5:01:15 | 41.67 | 37.77 | 997 | 0.35 | 0.32 | 54.5 |
| 4/27/2015 5:01:15 | 41.99 | 38.09 | 991 | 0.35 | 0.32 | 54.2 |
| 4/27/2015 5:01:16 | 42.32 | 38.42 | 991 | 0.35 | 0.33 | 54.2 |
| 4/27/2015 5:01:16 | 42.65 | 38.75 | 991 | 0.35 | 0.33 | 54.2 |
| 4/27/2015 5:01:16 | 42.98 | 39.08 | 986 | 0.35 | 0.32 | 53.9 |
| 4/27/2015 5:01:17 | 43.31 | 39.41 | 991 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:01:18 | 43.64 | 39.74 | 991 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:01:18 | 43.96 | 40.06 | 991 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:01:18 | 44.29 | 40.39 | 994 | 0.33 | 0.32 | 54.4 |
| 4/27/2015 5:01:19 | 44.62 | 40.72 | 994 | 0.33 | 0.32 | 54.4 |
| 4/27/2015 5:01:19 | 44.95 | 41.05 | 994 | 0.33 | 0.32 | 54.4 |
| 4/27/2015 5:01:19 | 45.28 | 41.38 | 1,000 | 0.33 | 0.33 | 54.7 |
| 4/27/2015 5:01:20 | 45.60 | 41.70 | 991 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 5:01:20 | 45.93 | 42.03 | 991 | 0.33 | 0.32 | 54.2 |
| 4/27/2015 5:01:20 | 46.26 | 42.36 | 989 | 0.33 | 0.32 | 54.1 |
| 4/27/2015 5:01:21 | 46.59 | 42.69 | 983 | 0.33 | 0.32 | 53.8 |
| 4/27/2015 5:01:21 | 46.92 | 43.02 | 983 | 0.33 | 0.32 | 53.8 |
| 4/27/2015 5:01:21 | 47.24 | 43.34 | 986 | 0.33 | 0.32 | 53.9 |
| 4/27/2015 5:01:22 | 47.57 | 43.67 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 5:01:22 | 47.90 | 44.00 | 980 | 0.34 | 0.32 | 53.6 |
| 4/27/2015 5:01:22 | 48.23 | 44.33 | 986 | 0.34 | 0.32 | 53.9 |
| 4/27/2015 5:01:23 | 48.56 | 44.66 | 986 | 0.34 | 0.33 | 53.9 |
| 4/27/2015 5:01:23 | 48.88 | 44.98 | 991 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:01:24 | 49.21 | 45.31 | 991 | 0.34 | 0.32 | 54.2 |
| 4/27/2015 5:01:24 | 49.54 | 45.64 | 974 | 0.35 | 0.32 | 53.3 |
| 4/27/2015 5:01:24 | 49.87 | 45.97 | 975 | 0.33 | 0.36 | 53.3 |
| 4/27/2015 5:01:25 | 50.20 | 46.30 | 916 | 0.31 | 0.39 | 50.1 |
| 4/27/2015 5:01:42 | 50.53 | 46.63 | 50 | 4.11 | 0.38 | 2.7 |
| 4/27/2015 5:01:47 | 50.85 | 46.95 | 41 | 4.78 | 0.41 | 2.2 |
| 4/27/2015 5:01:50 | 51.18 | 47.28 | 119 | 3.39 | 0.40 | 6.5 |
| 4/27/2015 5:01:53 | 51.51 | 47.61 | 127 | 3.28 | 0.41 | 7.0 |
| 4/27/2015 5:01:58 | 51.84 | 47.94 | 60 | 3.17 | 0.40 | 3.3 |
| 4/27/2015 5:02:05 | 52.17 | 48.27 | 58 | 3.22 | 0.41 | 3.2 |
| 4/27/2015 5:02:12 | 52.49 | 48.59 | 55 | 3.41 | 0.40 | 3.0 |
| 4/27/2015 5:02:17 | 52.82 | 48.92 | 69 | 3.60 | 0.40 | 3.8 |
| 4/27/2015 5:02:21 | 53.15 | 49.25 | 93 | 4.20 | 0.40 | 5.1 |
| 4/27/2015 5:02:25 | 53.48 | 49.58 | 98 | 4.18 | 0.40 | 5.4 |
| 4/27/2015 5:02:31 | 53.81 | 49.91 | 58 | 3.75 | 0.40 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 5:02:35 | 54.13 | 50.23 | 81 | 4.51 | 0.40 | 4.4 |
| 4/27/2015 | 5:02:39 | 54.46 | 50.56 | 90 | 3.94 | 0.41 | 4.9 |
| 4/27/2015 | 5:02:44 | 54.79 | 50.89 | 84 | 4.22 | 0.40 | 4.6 |
| 4/27/2015 | 5:02:49 | 55.12 | 51.22 | 79 | 4.02 | 0.40 | 4.3 |
| 4/27/2015 | 5:02:53 | 55.45 | 51.55 | 80 | 3.54 | 0.40 | 4.4 |
| 4/27/2015 | 5:02:57 | 55.77 | 51.87 | 101 | 3.83 | 0.40 | 5.5 |
| 4/27/2015 | 5:03:00 | 56.10 | 52.20 | 104 | 3.71 | 0.40 | 5.7 |
| 4/27/2015 | 5:03:04 | 56.43 | 52.53 | 87 | 3.79 | 0.40 | 4.7 |
| 4/27/2015 | 5:03:09 | 56.76 | 52.86 | 81 | 3.92 | 0.40 | 4.4 |
| 4/27/2015 | 5:03:13 | 57.09 | 53.19 | 94 | 3.56 | 0.40 | 5.1 |
| 4/27/2015 | 5:03:17 | 57.41 | 53.51 | 78 | 3.15 | 0.40 | 4.3 |
| 4/27/2015 | 5:03:21 | 57.74 | 53.84 | 86 | 3.27 | 0.40 | 4.7 |
| 4/27/2015 | 5:03:26 | 58.07 | 54.17 | 90 | 3.45 | 0.40 | 4.9 |
| 4/27/2015 | 5:03:29 | 58.40 | 54.50 | 88 | 3.34 | 0.40 | 4.8 |
| 4/27/2015 | 5:03:31 | 58.53 | 54.63 | 90 | 4.41 | 0.41 | 4.9 |

## H88 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:59:15

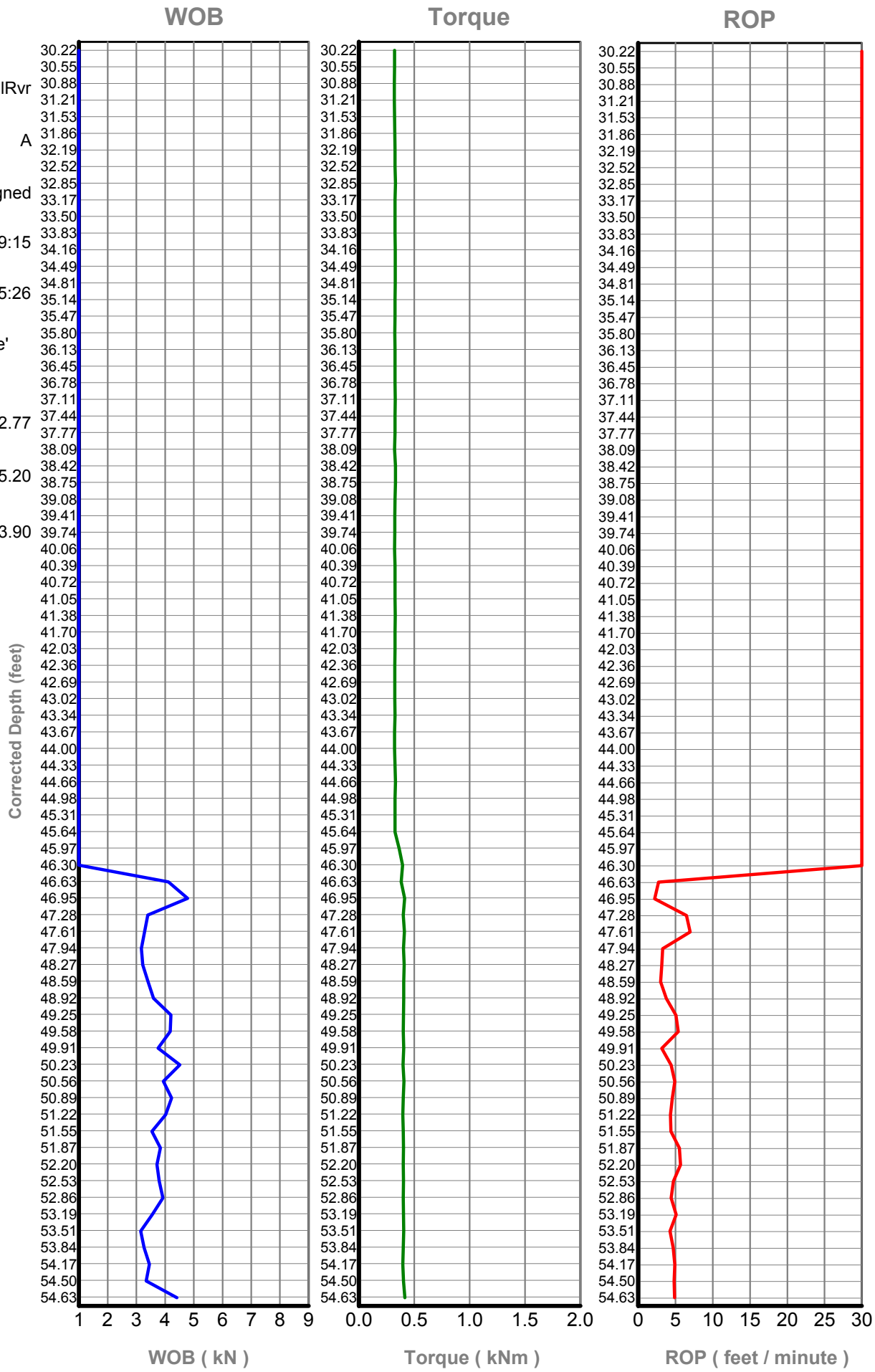
**End Date:**
4/27/2015 5:05:26

**Operator Note:**
'3.9 3.5 b Auto Complete'

**Northing:**
365,632.77

**Easting:**
249,275.20

**Tide (feet):**
3.90



## Hole: H89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:54:15 | 33.79 | 30.09 | 951 | 0.37 | 0.33 | 52.0 |
| 4/27/2015 4:54:15 | 34.12 | 30.42 | 963 | 0.37 | 0.33 | 52.6 |
| 4/27/2015 4:54:16 | 34.45 | 30.75 | 960 | 0.37 | 0.34 | 52.5 |
| 4/27/2015 4:54:16 | 34.78 | 31.08 | 960 | 0.36 | 0.33 | 52.5 |
| 4/27/2015 4:54:17 | 35.11 | 31.41 | 960 | 0.36 | 0.33 | 52.5 |
| 4/27/2015 4:54:17 | 35.43 | 31.73 | 955 | 0.36 | 0.33 | 52.2 |
| 4/27/2015 4:54:17 | 35.76 | 32.06 | 963 | 0.36 | 0.33 | 52.7 |
| 4/27/2015 4:54:18 | 36.09 | 32.39 | 963 | 0.36 | 0.33 | 52.7 |
| 4/27/2015 4:54:18 | 36.42 | 32.72 | 954 | 0.37 | 0.33 | 52.2 |
| 4/27/2015 4:54:18 | 36.75 | 33.05 | 951 | 0.36 | 0.33 | 52.0 |
| 4/27/2015 4:54:19 | 37.07 | 33.37 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:19 | 37.40 | 33.70 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:19 | 37.73 | 34.03 | 957 | 0.36 | 0.33 | 52.3 |
| 4/27/2015 4:54:20 | 38.06 | 34.36 | 948 | 0.36 | 0.32 | 51.8 |
| 4/27/2015 4:54:20 | 38.39 | 34.69 | 948 | 0.36 | 0.32 | 51.8 |
| 4/27/2015 4:54:20 | 38.71 | 35.01 | 948 | 0.36 | 0.33 | 51.8 |
| 4/27/2015 4:54:21 | 39.04 | 35.34 | 951 | 0.36 | 0.32 | 52.0 |
| 4/27/2015 4:54:22 | 39.37 | 35.67 | 957 | 0.36 | 0.33 | 52.3 |
| 4/27/2015 4:54:22 | 39.70 | 36.00 | 957 | 0.36 | 0.33 | 52.3 |
| 4/27/2015 4:54:22 | 40.03 | 36.33 | 957 | 0.36 | 0.33 | 52.3 |
| 4/27/2015 4:54:23 | 40.35 | 36.65 | 954 | 0.35 | 0.33 | 52.2 |
| 4/27/2015 4:54:23 | 40.68 | 36.98 | 954 | 0.35 | 0.33 | 52.2 |
| 4/27/2015 4:54:23 | 41.01 | 37.31 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:24 | 41.34 | 37.64 | 957 | 0.36 | 0.33 | 52.3 |
| 4/27/2015 4:54:24 | 41.67 | 37.97 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:25 | 41.99 | 38.29 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:25 | 42.32 | 38.62 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:25 | 42.65 | 38.95 | 951 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:54:26 | 42.98 | 39.28 | 951 | 0.35 | 0.32 | 52.0 |
| 4/27/2015 4:54:26 | 43.31 | 39.61 | 966 | 0.35 | 0.32 | 52.8 |
| 4/27/2015 4:54:26 | 43.64 | 39.94 | 960 | 0.35 | 0.33 | 52.5 |
| 4/27/2015 4:54:27 | 43.96 | 40.26 | 966 | 0.35 | 0.33 | 52.8 |
| 4/27/2015 4:54:27 | 44.29 | 40.59 | 966 | 0.35 | 0.33 | 52.8 |
| 4/27/2015 4:54:27 | 44.62 | 40.92 | 960 | 0.36 | 0.33 | 52.5 |
| 4/27/2015 4:54:28 | 44.95 | 41.25 | 966 | 0.36 | 0.33 | 52.8 |
| 4/27/2015 4:54:28 | 45.28 | 41.58 | 948 | 0.35 | 0.33 | 51.9 |
| 4/27/2015 4:54:29 | 45.60 | 41.90 | 948 | 0.35 | 0.33 | 51.9 |
| 4/27/2015 4:54:29 | 45.93 | 42.23 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:29 | 46.26 | 42.56 | 945 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:30 | 46.59 | 42.89 | 945 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:30 | 46.92 | 43.22 | 954 | 0.35 | 0.33 | 52.2 |
| 4/27/2015 4:54:30 | 47.24 | 43.54 | 951 | 0.35 | 0.33 | 52.0 |
| 4/27/2015 4:54:31 | 47.57 | 43.87 | 959 | 0.35 | 0.33 | 52.5 |
| 4/27/2015 4:54:32 | 47.90 | 44.20 | 959 | 0.35 | 0.33 | 52.5 |
| 4/27/2015 4:54:32 | 48.23 | 44.53 | 954 | 0.35 | 0.33 | 52.2 |
| 4/27/2015 4:54:32 | 48.56 | 44.86 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:33 | 48.88 | 45.18 | 946 | 0.35 | 0.33 | 51.7 |
| 4/27/2015 4:54:33 | 49.21 | 45.51 | 858 | 0.31 | 0.40 | 46.9 |
| 4/27/2015 4:54:53 | 49.54 | 45.84 | 52 | 4.06 | 0.37 | 2.8 |
| 4/27/2015 4:54:54 | 49.87 | 46.17 | 255 | 2.90 | 0.36 | 13.9 |
| 4/27/2015 4:54:55 | 50.20 | 46.50 | 372 | 2.74 | 0.36 | 20.3 |
| 4/27/2015 4:54:55 | 50.53 | 46.83 | 458 | 2.93 | 0.37 | 25.0 |
| 4/27/2015 4:55:15 | 50.85 | 47.15 | 3 | 3.49 | 0.40 | 0.2 |
| 4/27/2015 4:55:20 | 51.18 | 47.48 | 69 | 4.22 | 0.40 | 3.8 |
| 4/27/2015 4:55:25 | 51.51 | 47.81 | 58 | 3.38 | 0.40 | 3.2 |
| 4/27/2015 4:55:33 | 51.84 | 48.14 | 49 | 3.37 | 0.41 | 2.7 |
| 4/27/2015 4:55:41 | 52.17 | 48.47 | 43 | 3.56 | 0.41 | 2.4 |
| 4/27/2015 4:55:50 | 52.49 | 48.79 | 40 | 3.31 | 0.40 | 2.2 |
| 4/27/2015 4:55:58 | 52.82 | 49.12 | 49 | 4.13 | 0.40 | 2.7 |

## H89 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:52:09

**End Date:**
4/27/2015 4:59:00

**Operator Note:**
'3.7 3.4 b Auto Complete'

**Northing:**
365,667.95

**Easting:**
249,322.56

**Tide (feet):**
3.70



## Hole: H9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 23:27:35 | 34.12 | 30.12 | 512 | 1.78 | 0.15 | 28.0 |
| 4/26/2015 23:27:35 | 34.45 | 30.45 | 506 | 1.76 | 0.15 | 27.7 |
| 4/26/2015 23:27:36 | 34.78 | 30.78 | 515 | 1.76 | 0.15 | 28.2 |
| 4/26/2015 23:27:37 | 35.11 | 31.11 | 512 | 1.76 | 0.15 | 28.0 |
| 4/26/2015 23:27:37 | 35.43 | 31.43 | 509 | 1.76 | 0.15 | 27.8 |
| 4/26/2015 23:27:38 | 35.76 | 31.76 | 515 | 1.79 | 0.15 | 28.1 |
| 4/26/2015 23:27:39 | 36.09 | 32.09 | 506 | 1.75 | 0.15 | 27.7 |
| 4/26/2015 23:27:39 | 36.42 | 32.42 | 509 | 1.79 | 0.15 | 27.8 |
| 4/26/2015 23:27:40 | 36.75 | 32.75 | 512 | 1.72 | 0.15 | 28.0 |
| 4/26/2015 23:27:41 | 37.07 | 33.07 | 509 | 1.72 | 0.16 | 27.8 |
| 4/26/2015 23:27:42 | 37.40 | 33.40 | 512 | 1.76 | 0.15 | 28.0 |
| 4/26/2015 23:27:43 | 37.73 | 33.73 | 500 | 1.78 | 0.16 | 27.3 |
| 4/26/2015 23:27:43 | 38.06 | 34.06 | 494 | 1.76 | 0.16 | 27.0 |
| 4/26/2015 23:27:44 | 38.39 | 34.39 | 494 | 1.79 | 0.16 | 27.0 |
| 4/26/2015 23:27:45 | 38.71 | 34.71 | 496 | 1.74 | 0.15 | 27.1 |
| 4/26/2015 23:27:45 | 39.04 | 35.04 | 494 | 1.74 | 0.15 | 27.0 |
| 4/26/2015 23:27:46 | 39.37 | 35.37 | 494 | 1.78 | 0.15 | 27.0 |
| 4/26/2015 23:27:47 | 39.70 | 35.70 | 505 | 1.76 | 0.16 | 27.6 |
| 4/26/2015 23:27:47 | 40.03 | 36.03 | 505 | 1.76 | 0.16 | 27.6 |
| 4/26/2015 23:27:48 | 40.35 | 36.35 | 503 | 1.76 | 0.16 | 27.5 |
| 4/26/2015 23:27:49 | 40.68 | 36.68 | 512 | 1.78 | 0.15 | 28.0 |
| 4/26/2015 23:27:49 | 41.01 | 37.01 | 500 | 1.79 | 0.16 | 27.3 |
| 4/26/2015 23:27:50 | 41.34 | 37.34 | 504 | 1.79 | 0.16 | 27.6 |
| 4/26/2015 23:27:51 | 41.67 | 37.67 | 510 | 1.77 | 0.16 | 27.9 |
| 4/26/2015 23:27:51 | 41.99 | 37.99 | 504 | 1.78 | 0.15 | 27.6 |
| 4/26/2015 23:27:53 | 42.32 | 38.32 | 501 | 1.78 | 0.16 | 27.4 |
| 4/26/2015 23:27:53 | 42.65 | 38.65 | 509 | 1.79 | 0.16 | 27.8 |
| 4/26/2015 23:27:54 | 42.98 | 38.98 | 502 | 1.76 | 0.16 | 27.4 |
| 4/26/2015 23:27:55 | 43.31 | 39.31 | 508 | 1.76 | 0.16 | 27.8 |
| 4/26/2015 23:27:55 | 43.64 | 39.64 | 493 | 1.79 | 0.16 | 26.9 |
| 4/26/2015 23:27:56 | 43.96 | 39.96 | 496 | 1.85 | 0.16 | 27.1 |
| 4/26/2015 23:27:57 | 44.29 | 40.29 | 492 | 1.76 | 0.16 | 26.9 |
| 4/26/2015 23:27:57 | 44.62 | 40.62 | 492 | 1.76 | 0.16 | 26.9 |
| 4/26/2015 23:27:58 | 44.95 | 40.95 | 495 | 1.76 | 0.16 | 27.1 |
| 4/26/2015 23:27:59 | 45.28 | 41.28 | 506 | 1.73 | 0.16 | 27.7 |
| 4/26/2015 23:27:59 | 45.60 | 41.60 | 511 | 1.78 | 0.16 | 27.9 |
| 4/26/2015 23:28:00 | 45.93 | 41.93 | 511 | 1.78 | 0.16 | 27.9 |
| 4/26/2015 23:28:01 | 46.26 | 42.26 | 508 | 1.79 | 0.16 | 27.8 |
| 4/26/2015 23:28:01 | 46.59 | 42.59 | 511 | 1.74 | 0.16 | 27.9 |
| 4/26/2015 23:28:17 | 46.92 | 42.92 | 17 | 1.81 | 1.11 | 0.9 |
| 4/26/2015 23:28:18 | 47.24 | 43.24 | 150 | 1.76 | 1.25 | 8.2 |
| 4/26/2015 23:28:25 | 47.57 | 43.57 | 9 | 1.81 | 1.37 | 0.5 |
| 4/26/2015 23:28:26 | 47.90 | 43.90 | 169 | 1.78 | 1.18 | 9.3 |
| 4/26/2015 23:28:27 | 48.23 | 44.23 | 261 | 1.76 | 1.24 | 14.3 |
| 4/26/2015 23:28:32 | 48.56 | 44.56 | 98 | 1.76 | 1.37 | 5.3 |
| 4/26/2015 23:28:33 | 48.88 | 44.88 | 214 | 1.79 | 1.18 | 11.7 |
| 4/26/2015 23:28:49 | 49.21 | 45.21 | 31 | 1.74 | 1.15 | 1.7 |
| 4/26/2015 23:28:50 | 49.54 | 45.54 | 187 | 1.75 | 1.13 | 10.2 |
| 4/26/2015 23:29:14 | 49.87 | 45.87 | 9 | 1.76 | 1.11 | 0.5 |
| 4/26/2015 23:29:16 | 50.20 | 46.20 | 159 | 1.74 | 1.12 | 8.7 |
| 4/26/2015 23:29:17 | 50.53 | 46.53 | 257 | 1.77 | 1.13 | 14.0 |
| 4/26/2015 23:29:21 | 50.85 | 46.85 | 49 | 1.77 | 1.17 | 2.7 |
| 4/26/2015 23:29:23 | 51.18 | 47.18 | 226 | 1.76 | 1.10 | 12.3 |
| 4/26/2015 23:29:25 | 51.51 | 47.51 | 174 | 1.76 | 1.20 | 9.5 |
| 4/26/2015 23:29:28 | 51.84 | 47.84 | 122 | 1.74 | 1.16 | 6.6 |
| 4/26/2015 23:29:30 | 52.17 | 48.17 | 188 | 1.75 | 1.08 | 10.3 |
| 4/26/2015 23:30:10 | 52.49 | 48.49 | 46 | 1.77 | 1.14 | 2.5 |
| 4/26/2015 23:30:18 | 52.82 | 48.82 | 48 | 1.77 | 1.13 | 2.6 |
| 4/26/2015 23:30:23 | 53.15 | 49.15 | 72 | 1.77 | 1.13 | 3.9 |
| 4/26/2015 23:30:32 | 53.48 | 49.48 | 38 | 1.79 | 1.10 | 2.1 |
| 4/26/2015 23:30:35 | 53.60 | 49.60 | 44 | 1.78 | 1.08 | 2.4 |

## H9 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 23:25:24

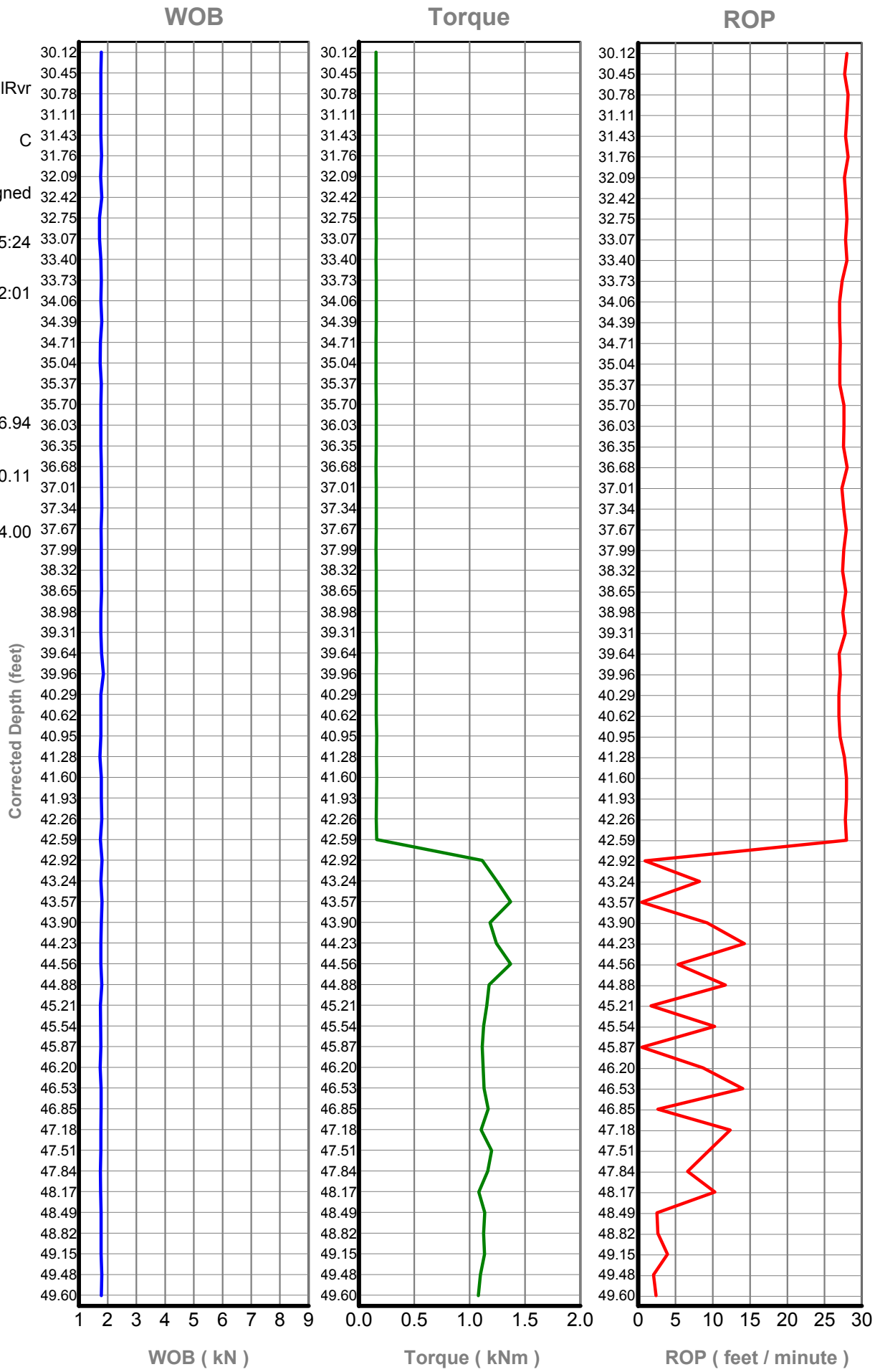
**End Date:**
4/26/2015 23:32:01

**Operator Note:**
'4 4.1 c Auto Complete'

**Northing:**
365,966.94

**Easting:**
249,460.11

**Tide (feet):**
4.00



## Hole: H90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 4:53:58 | 33.79 | 30.09 | 552 | 1.81 | 0.12 | 30.2 |
| 4/27/2015 4:53:59 | 34.12 | 30.42 | 559 | 1.76 | 0.16 | 30.6 |
| 4/27/2015 4:54:00 | 34.45 | 30.75 | 559 | 1.79 | 0.16 | 30.6 |
| 4/27/2015 4:54:00 | 34.78 | 31.08 | 559 | 1.76 | 0.15 | 30.5 |
| 4/27/2015 4:54:01 | 35.11 | 31.41 | 559 | 1.77 | 0.16 | 30.5 |
| 4/27/2015 4:54:01 | 35.43 | 31.73 | 559 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 4:54:02 | 35.76 | 32.06 | 556 | 1.76 | 0.16 | 30.4 |
| 4/27/2015 4:54:03 | 36.09 | 32.39 | 552 | 1.78 | 0.16 | 30.2 |
| 4/27/2015 4:54:03 | 36.42 | 32.72 | 559 | 1.81 | 0.16 | 30.5 |
| 4/27/2015 4:54:04 | 36.75 | 33.05 | 552 | 1.79 | 0.15 | 30.2 |
| 4/27/2015 4:54:05 | 37.07 | 33.37 | 555 | 1.79 | 0.16 | 30.3 |
| 4/27/2015 4:54:05 | 37.40 | 33.70 | 555 | 1.76 | 0.16 | 30.3 |
| 4/27/2015 4:54:06 | 37.73 | 34.03 | 555 | 1.76 | 0.15 | 30.4 |
| 4/27/2015 4:54:06 | 38.06 | 34.36 | 558 | 1.79 | 0.16 | 30.5 |
| 4/27/2015 4:54:07 | 38.39 | 34.69 | 546 | 1.77 | 0.16 | 29.9 |
| 4/27/2015 4:54:08 | 38.71 | 35.01 | 553 | 1.81 | 0.15 | 30.2 |
| 4/27/2015 4:54:09 | 39.04 | 35.34 | 550 | 1.77 | 0.16 | 30.1 |
| 4/27/2015 4:54:09 | 39.37 | 35.67 | 549 | 1.76 | 0.15 | 30.0 |
| 4/27/2015 4:54:10 | 39.70 | 36.00 | 559 | 1.77 | 0.16 | 30.5 |
| 4/27/2015 4:54:11 | 40.03 | 36.33 | 555 | 1.79 | 0.16 | 30.4 |
| 4/27/2015 4:54:11 | 40.35 | 36.65 | 552 | 1.76 | 0.16 | 30.2 |
| 4/27/2015 4:54:12 | 40.68 | 36.98 | 555 | 1.78 | 0.16 | 30.4 |
| 4/27/2015 4:54:12 | 41.01 | 37.31 | 552 | 1.77 | 0.15 | 30.2 |
| 4/27/2015 4:54:13 | 41.34 | 37.64 | 552 | 1.79 | 0.16 | 30.2 |
| 4/27/2015 4:54:14 | 41.67 | 37.97 | 561 | 1.77 | 0.16 | 30.7 |
| 4/27/2015 4:54:14 | 41.99 | 38.29 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 4:54:15 | 42.32 | 38.62 | 555 | 1.81 | 0.16 | 30.4 |
| 4/27/2015 4:54:16 | 42.65 | 38.95 | 558 | 1.75 | 0.15 | 30.5 |
| 4/27/2015 4:54:16 | 42.98 | 39.28 | 552 | 1.78 | 0.16 | 30.2 |
| 4/27/2015 4:54:17 | 43.31 | 39.61 | 555 | 1.80 | 0.16 | 30.4 |
| 4/27/2015 4:54:17 | 43.64 | 39.94 | 543 | 1.79 | 0.16 | 29.7 |
| 4/27/2015 4:54:19 | 43.96 | 40.26 | 550 | 1.79 | 0.16 | 30.1 |
| 4/27/2015 4:54:19 | 44.29 | 40.59 | 547 | 1.79 | 0.16 | 29.9 |
| 4/27/2015 4:54:20 | 44.62 | 40.92 | 550 | 1.79 | 0.16 | 30.1 |
| 4/27/2015 4:54:20 | 44.95 | 41.25 | 553 | 1.79 | 0.16 | 30.2 |
| 4/27/2015 4:54:21 | 45.28 | 41.58 | 549 | 1.80 | 0.16 | 30.0 |
| 4/27/2015 4:54:22 | 45.60 | 41.90 | 549 | 1.77 | 0.16 | 30.0 |
| 4/27/2015 4:54:22 | 45.93 | 42.23 | 553 | 1.79 | 0.16 | 30.2 |
| 4/27/2015 4:54:23 | 46.26 | 42.56 | 546 | 1.80 | 0.16 | 29.9 |
| 4/27/2015 4:54:24 | 46.59 | 42.89 | 552 | 1.77 | 0.15 | 30.2 |
| 4/27/2015 4:54:24 | 46.92 | 43.22 | 552 | 1.81 | 0.15 | 30.2 |
| 4/27/2015 4:54:25 | 47.24 | 43.54 | 555 | 1.81 | 0.16 | 30.4 |
| 4/27/2015 4:54:25 | 47.57 | 43.87 | 549 | 1.79 | 0.16 | 30.0 |
| 4/27/2015 4:54:26 | 47.90 | 44.20 | 552 | 1.77 | 0.16 | 30.2 |
| 4/27/2015 4:54:27 | 48.23 | 44.53 | 556 | 1.76 | 0.16 | 30.4 |
| 4/27/2015 4:54:27 | 48.56 | 44.86 | 549 | 1.79 | 0.16 | 30.0 |
| 4/27/2015 4:54:38 | 48.88 | 45.18 | 0 | 1.76 | 1.13 | 0.0 |
| 4/27/2015 4:54:42 | 49.21 | 45.51 | 49 | 1.78 | 1.19 | 2.7 |
| 4/27/2015 4:54:45 | 49.54 | 45.84 | 166 | 1.81 | 1.26 | 9.1 |
| 4/27/2015 4:54:48 | 49.87 | 46.17 | 101 | 1.81 | 1.19 | 5.5 |
| 4/27/2015 4:54:51 | 50.20 | 46.50 | 101 | 1.78 | 1.18 | 5.5 |
| 4/27/2015 4:54:57 | 50.53 | 46.83 | 49 | 1.82 | 1.23 | 2.7 |
| 4/27/2015 4:55:04 | 50.85 | 47.15 | 52 | 1.82 | 1.19 | 2.9 |
| 4/27/2015 4:55:09 | 51.18 | 47.48 | 79 | 1.82 | 1.21 | 4.3 |
| 4/27/2015 4:55:17 | 51.51 | 47.81 | 56 | 1.81 | 1.13 | 3.1 |
| 4/27/2015 4:55:23 | 51.84 | 48.14 | 40 | 1.81 | 1.10 | 2.2 |
| 4/27/2015 4:55:29 | 52.17 | 48.47 | 89 | 1.79 | 1.13 | 4.9 |
| 4/27/2015 4:55:37 | 52.49 | 48.79 | 29 | 1.81 | 1.11 | 1.6 |
| 4/27/2015 4:55:49 | 52.82 | 49.12 | 31 | 1.82 | 1.14 | 1.7 |
| 4/27/2015 4:56:01 | 53.15 | 49.45 | 29 | 1.81 | 1.10 | 1.6 |
| 4/27/2015 4:56:10 | 53.41 | 49.71 | 32 | 1.83 | 1.22 | 1.7 |

## H90 - Summary

**Pattern Number:**
AreaH_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 4:52:11

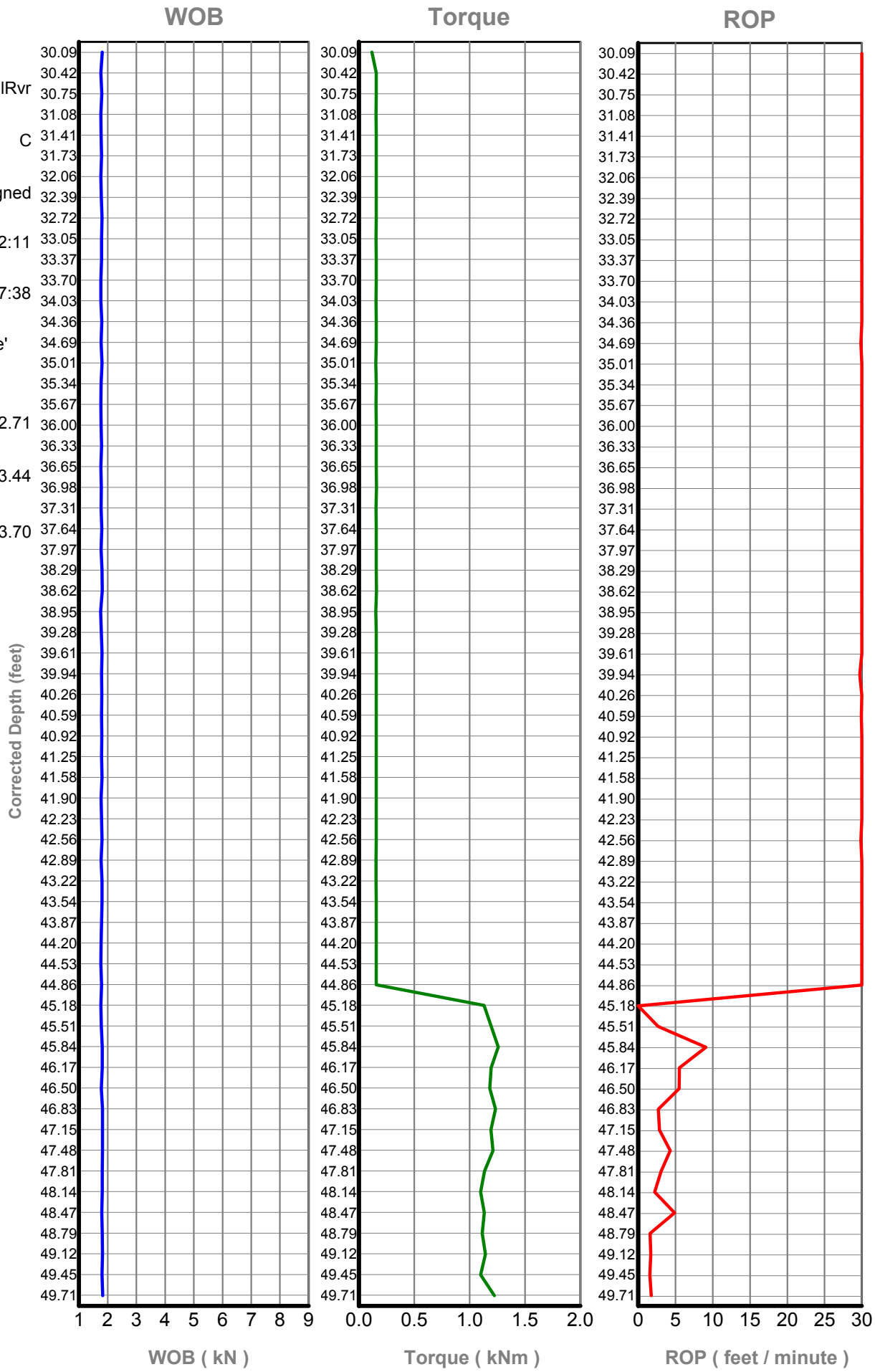
**End Date:**
4/27/2015 4:57:38

**Operator Note:**
'3.7 3.4 c Auto Complete'

**Northing:**
365,712.71

**Easting:**
249,383.44

**Tide (feet):**
3.70



## Hole: H91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:11:52 | 33.46 | 30.26 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/27/2015 0:11:52 | 33.79 | 30.59 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/27/2015 0:11:52 | 34.12 | 30.92 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/27/2015 0:11:53 | 34.45 | 31.25 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/27/2015 0:11:53 | 34.78 | 31.58 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/27/2015 0:11:54 | 35.11 | 31.91 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/27/2015 0:11:54 | 35.43 | 32.23 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/27/2015 0:11:55 | 35.76 | 32.56 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/27/2015 0:11:55 | 36.09 | 32.89 | 1,046 | 0.31 | 0.32 | 57.2 |
| 4/27/2015 0:11:55 | 36.42 | 33.22 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/27/2015 0:11:56 | 36.75 | 33.55 | 1,041 | 0.32 | 0.32 | 56.9 |
| 4/27/2015 0:11:56 | 37.07 | 33.87 | 1,043 | 0.32 | 0.32 | 57.1 |
| 4/27/2015 0:11:56 | 37.40 | 34.20 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/27/2015 0:11:57 | 37.73 | 34.53 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/27/2015 0:11:57 | 38.06 | 34.86 | 1,044 | 0.32 | 0.32 | 57.1 |
| 4/27/2015 0:11:57 | 38.39 | 35.19 | 1,047 | 0.32 | 0.32 | 57.2 |
| 4/27/2015 0:11:58 | 38.71 | 35.51 | 1,047 | 0.32 | 0.32 | 57.2 |
| 4/27/2015 0:11:58 | 39.04 | 35.84 | 1,043 | 0.32 | 0.32 | 57.1 |
| 4/27/2015 0:11:58 | 39.37 | 36.17 | 1,043 | 0.32 | 0.32 | 57.1 |
| 4/27/2015 0:11:58 | 39.70 | 36.50 | 1,050 | 0.32 | 0.31 | 57.4 |
| 4/27/2015 0:11:59 | 40.03 | 36.83 | 1,047 | 0.32 | 0.31 | 57.2 |
| 4/27/2015 0:11:59 | 40.35 | 37.15 | 1,047 | 0.32 | 0.31 | 57.2 |
| 4/27/2015 0:11:59 | 40.68 | 37.48 | 1,047 | 0.31 | 0.32 | 57.2 |
| 4/27/2015 0:12:00 | 41.01 | 37.81 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 0:12:00 | 41.34 | 38.14 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 0:12:00 | 41.67 | 38.47 | 1,050 | 0.32 | 0.32 | 57.4 |
| 4/27/2015 0:12:01 | 41.99 | 38.79 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:12:01 | 42.32 | 39.12 | 1,041 | 0.31 | 0.31 | 56.9 |
| 4/27/2015 0:12:01 | 42.65 | 39.45 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:02 | 42.98 | 39.78 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:02 | 43.31 | 40.11 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:02 | 43.64 | 40.44 | 1,053 | 0.31 | 0.32 | 57.6 |
| 4/27/2015 0:12:03 | 43.96 | 40.76 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:03 | 44.29 | 41.09 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:03 | 44.62 | 41.42 | 1,041 | 0.31 | 0.32 | 56.9 |
| 4/27/2015 0:12:04 | 44.95 | 41.75 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/27/2015 0:12:05 | 45.28 | 42.08 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/27/2015 0:12:05 | 45.60 | 42.40 | 1,041 | 0.29 | 0.32 | 56.9 |
| 4/27/2015 0:12:05 | 45.93 | 42.73 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/27/2015 0:12:06 | 46.26 | 43.06 | 1,029 | 0.31 | 0.32 | 56.3 |
| 4/27/2015 0:12:06 | 46.59 | 43.39 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/27/2015 0:12:06 | 46.92 | 43.72 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/27/2015 0:12:07 | 47.24 | 44.04 | 1,029 | 0.31 | 0.31 | 56.3 |
| 4/27/2015 0:12:07 | 47.57 | 44.37 | 1,041 | 0.31 | 0.34 | 56.9 |
| 4/27/2015 0:12:07 | 47.90 | 44.70 | 1,001 | 0.29 | 0.37 | 54.7 |
| 4/27/2015 0:12:29 | 48.23 | 45.03 | 81 | 3.42 | 0.39 | 4.4 |
| 4/27/2015 0:12:32 | 48.56 | 45.36 | 106 | 4.30 | 0.40 | 5.8 |
| 4/27/2015 0:12:37 | 48.88 | 45.68 | 81 | 4.03 | 0.39 | 4.4 |
| 4/27/2015 0:12:43 | 49.21 | 46.01 | 43 | 3.29 | 0.40 | 2.4 |
| 4/27/2015 0:12:51 | 49.54 | 46.34 | 43 | 3.24 | 0.40 | 2.4 |
| 4/27/2015 0:12:59 | 49.87 | 46.67 | 45 | 3.28 | 0.40 | 2.4 |
| 4/27/2015 0:13:05 | 50.16 | 46.96 | 46 | 3.28 | 0.40 | 2.5 |

## H91 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:08:18

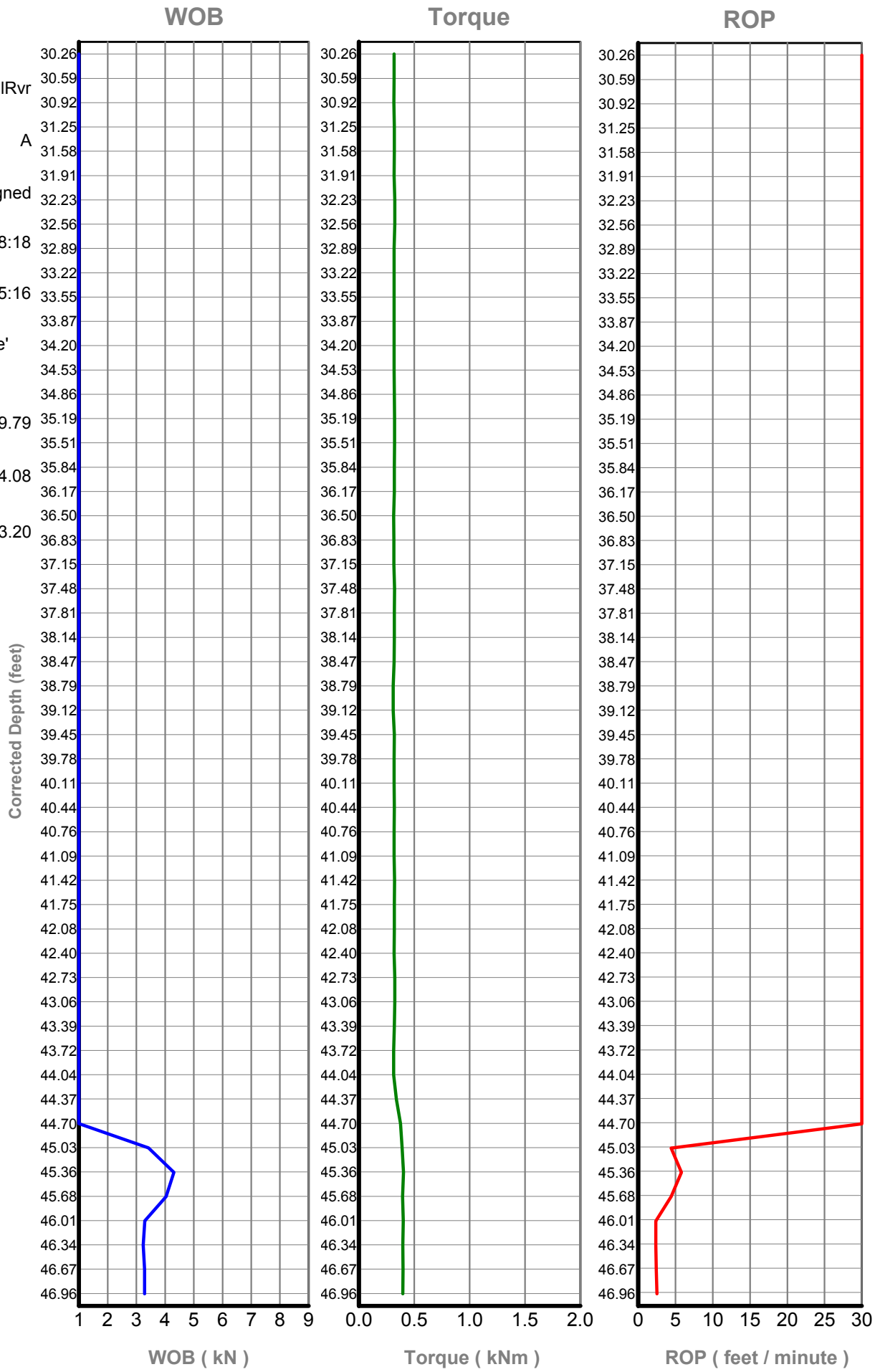
**End Date:**
4/27/2015 0:15:16

**Operator Note:**
'3.2 3.3 b Auto Complete'

**Northing:**
365,769.79

**Easting:**
249,444.08

**Tide (feet):**
3.20



## Hole: H92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 0:18:36 | 33.14 | 30.04 | 1,057 | 1.83 | 0.31 | 57.8 |
| 4/27/2015 0:18:36 | 33.46 | 30.36 | 1,057 | 1.83 | 0.31 | 57.8 |
| 4/27/2015 0:18:36 | 33.79 | 30.69 | 1,078 | 1.83 | 0.32 | 58.9 |
| 4/27/2015 0:18:37 | 34.12 | 31.02 | 1,064 | 1.82 | 0.32 | 58.2 |
| 4/27/2015 0:18:37 | 34.45 | 31.35 | 1,064 | 1.82 | 0.32 | 58.2 |
| 4/27/2015 0:18:37 | 34.78 | 31.68 | 1,070 | 1.83 | 0.31 | 58.5 |
| 4/27/2015 0:18:38 | 35.11 | 32.01 | 1,067 | 1.82 | 0.32 | 58.3 |
| 4/27/2015 0:18:38 | 35.43 | 32.33 | 1,067 | 1.82 | 0.32 | 58.3 |
| 4/27/2015 0:18:38 | 35.76 | 32.66 | 1,058 | 1.83 | 0.31 | 57.9 |
| 4/27/2015 0:18:39 | 36.09 | 32.99 | 1,058 | 1.83 | 0.31 | 57.9 |
| 4/27/2015 0:18:39 | 36.42 | 33.32 | 1,058 | 1.83 | 0.31 | 57.9 |
| 4/27/2015 0:18:40 | 36.75 | 33.65 | 1,058 | 1.83 | 0.31 | 57.9 |
| 4/27/2015 0:18:40 | 37.07 | 33.97 | 1,058 | 1.83 | 0.31 | 57.9 |
| 4/27/2015 0:18:40 | 37.40 | 34.30 | 1,033 | 1.83 | 0.31 | 56.5 |
| 4/27/2015 0:18:41 | 37.73 | 34.63 | 1,033 | 1.83 | 0.32 | 56.5 |
| 4/27/2015 0:18:41 | 38.06 | 34.96 | 1,033 | 1.83 | 0.32 | 56.5 |
| 4/27/2015 0:18:41 | 38.39 | 35.29 | 1,040 | 1.84 | 0.31 | 56.9 |
| 4/27/2015 0:18:42 | 38.71 | 35.61 | 1,062 | 1.83 | 0.31 | 58.1 |
| 4/27/2015 0:18:42 | 39.04 | 35.94 | 1,062 | 1.83 | 0.31 | 58.1 |
| 4/27/2015 0:18:42 | 39.37 | 36.27 | 1,056 | 1.82 | 0.31 | 57.7 |
| 4/27/2015 0:18:43 | 39.70 | 36.60 | 1,053 | 1.83 | 0.32 | 57.6 |
| 4/27/2015 0:18:43 | 40.03 | 36.93 | 1,053 | 1.83 | 0.32 | 57.6 |
| 4/27/2015 0:18:43 | 40.35 | 37.25 | 1,075 | 1.83 | 0.31 | 58.8 |
| 4/27/2015 0:18:44 | 40.68 | 37.58 | 1,071 | 0.33 | 0.32 | 58.6 |
| 4/27/2015 0:18:44 | 41.01 | 37.91 | 1,071 | 0.33 | 0.32 | 58.6 |
| 4/27/2015 0:18:44 | 41.34 | 38.24 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/27/2015 0:18:45 | 41.67 | 38.57 | 1,058 | 0.32 | 0.31 | 57.9 |
| 4/27/2015 0:18:45 | 41.99 | 38.89 | 1,058 | 0.31 | 0.31 | 57.9 |
| 4/27/2015 0:18:45 | 42.32 | 39.22 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:18:46 | 42.65 | 39.55 | 1,061 | 0.30 | 0.31 | 58.0 |
| 4/27/2015 0:18:46 | 42.98 | 39.88 | 1,058 | 0.31 | 0.32 | 57.8 |
| 4/27/2015 0:18:46 | 43.31 | 40.21 | 1,061 | 0.34 | 0.31 | 58.0 |
| 4/27/2015 0:18:47 | 43.64 | 40.54 | 1,061 | 0.34 | 0.31 | 58.0 |
| 4/27/2015 0:18:47 | 43.96 | 40.86 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/27/2015 0:18:47 | 44.29 | 41.19 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:18:48 | 44.62 | 41.52 | 1,062 | 0.31 | 0.31 | 58.1 |
| 4/27/2015 0:18:48 | 44.95 | 41.85 | 1,034 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 0:18:48 | 45.28 | 42.18 | 1,034 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 0:18:49 | 45.60 | 42.50 | 1,034 | 0.31 | 0.31 | 56.6 |
| 4/27/2015 0:18:49 | 45.93 | 42.83 | 1,055 | 0.31 | 0.32 | 57.7 |
| 4/27/2015 0:18:49 | 46.26 | 43.16 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/27/2015 0:18:50 | 46.59 | 43.49 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/27/2015 0:18:50 | 46.92 | 43.82 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/27/2015 0:18:51 | 47.24 | 44.14 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/27/2015 0:18:51 | 47.57 | 44.47 | 1,018 | 0.31 | 0.32 | 55.7 |
| 4/27/2015 0:18:51 | 47.90 | 44.80 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/27/2015 0:18:52 | 48.23 | 45.13 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/27/2015 0:18:52 | 48.56 | 45.46 | 1,049 | 0.31 | 0.34 | 57.3 |
| 4/27/2015 0:19:08 | 48.88 | 45.78 | 0 | 3.28 | 0.36 | 0.0 |
| 4/27/2015 0:19:10 | 49.21 | 46.11 | 152 | 3.52 | 0.37 | 8.3 |
| 4/27/2015 0:19:13 | 49.54 | 46.44 | 170 | 4.25 | 0.39 | 9.3 |
| 4/27/2015 0:19:26 | 49.87 | 46.77 | 44 | 3.22 | 0.40 | 2.4 |
| 4/27/2015 0:19:35 | 50.20 | 47.10 | 43 | 3.04 | 0.41 | 2.4 |
| 4/27/2015 0:19:43 | 50.53 | 47.43 | 44 | 3.03 | 0.40 | 2.4 |
| 4/27/2015 0:19:51 | 50.85 | 47.75 | 41 | 3.30 | 0.40 | 2.2 |

## H92 - Summary

**Pattern Number:**
AreaH_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 0:16:20

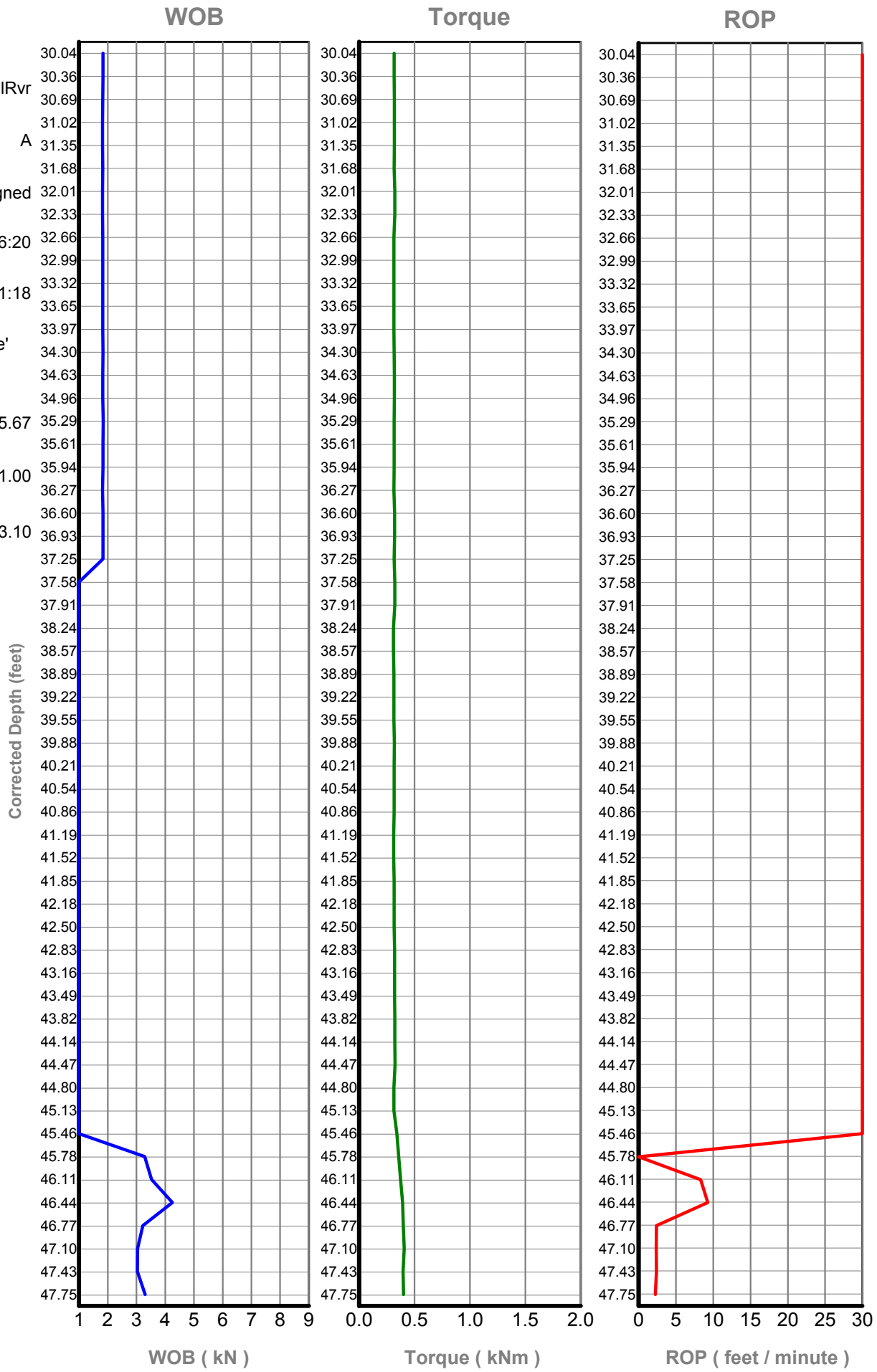
**End Date:**
4/27/2015 0:21:18

**Operator Note:**
'3.1 3.2 b Auto Complete'

**Northing:**
365,805.67

**Easting:**
249,491.00

**Tide (feet):**
3.10



## Hole: H94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:18:40 | 35.11 | 30.11 | 1,080 | 0.32 | 0.31 | 59.1 |
| 4/26/2015 22:18:41 | 35.43 | 30.43 | 1,080 | 0.32 | 0.31 | 59.1 |
| 4/26/2015 22:18:41 | 35.76 | 30.76 | 1,067 | 0.32 | 0.31 | 58.4 |
| 4/26/2015 22:18:41 | 36.09 | 31.09 | 1,065 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 22:18:42 | 36.42 | 31.42 | 1,065 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 22:18:42 | 36.75 | 31.75 | 1,046 | 0.32 | 0.32 | 57.2 |
| 4/26/2015 22:18:42 | 37.07 | 32.07 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/26/2015 22:18:43 | 37.40 | 32.40 | 1,062 | 0.32 | 0.31 | 58.1 |
| 4/26/2015 22:18:43 | 37.73 | 32.73 | 1,056 | 0.32 | 0.31 | 57.7 |
| 4/26/2015 22:18:43 | 38.06 | 33.06 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/26/2015 22:18:44 | 38.39 | 33.39 | 1,059 | 0.31 | 0.32 | 57.9 |
| 4/26/2015 22:18:44 | 38.71 | 33.71 | 1,059 | 0.32 | 0.31 | 57.9 |
| 4/26/2015 22:18:44 | 39.04 | 34.04 | 1,071 | 0.32 | 0.32 | 58.6 |
| 4/26/2015 22:18:45 | 39.37 | 34.37 | 1,071 | 0.32 | 0.32 | 58.6 |
| 4/26/2015 22:18:45 | 39.70 | 34.70 | 1,064 | 0.32 | 0.31 | 58.2 |
| 4/26/2015 22:18:45 | 40.03 | 35.03 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/26/2015 22:18:46 | 40.35 | 35.35 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/26/2015 22:18:46 | 40.68 | 35.68 | 1,058 | 0.32 | 0.31 | 57.8 |
| 4/26/2015 22:18:46 | 41.01 | 36.01 | 1,058 | 0.32 | 0.31 | 57.8 |
| 4/26/2015 22:18:46 | 41.34 | 36.34 | 1,067 | 0.32 | 0.31 | 58.3 |
| 4/26/2015 22:18:47 | 41.67 | 36.67 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 22:18:47 | 41.99 | 36.99 | 1,064 | 0.31 | 0.31 | 58.2 |
| 4/26/2015 22:18:47 | 42.32 | 37.32 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/26/2015 22:18:48 | 42.65 | 37.65 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/26/2015 22:18:49 | 42.98 | 37.98 | 1,061 | 0.32 | 0.31 | 58.0 |
| 4/26/2015 22:18:49 | 43.31 | 38.31 | 1,064 | 0.33 | 0.32 | 58.2 |
| 4/26/2015 22:18:49 | 43.64 | 38.64 | 1,058 | 0.35 | 0.32 | 57.9 |
| 4/26/2015 22:18:50 | 43.96 | 38.96 | 1,058 | 0.35 | 0.32 | 57.9 |
| 4/26/2015 22:18:50 | 44.29 | 39.29 | 1,055 | 0.33 | 0.32 | 57.7 |
| 4/26/2015 22:18:50 | 44.62 | 39.62 | 1,049 | 0.32 | 0.31 | 57.3 |
| 4/26/2015 22:18:51 | 44.95 | 39.95 | 1,049 | 0.32 | 0.31 | 57.3 |
| 4/26/2015 22:18:51 | 45.28 | 40.28 | 1,058 | 0.31 | 0.32 | 57.9 |
| 4/26/2015 22:18:51 | 45.60 | 40.60 | 1,033 | 0.32 | 0.31 | 56.5 |
| 4/26/2015 22:18:52 | 45.93 | 40.93 | 1,033 | 0.32 | 0.31 | 56.5 |
| 4/26/2015 22:18:52 | 46.26 | 41.26 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:18:52 | 46.59 | 41.59 | 1,033 | 0.31 | 0.31 | 56.5 |
| 4/26/2015 22:18:52 | 46.92 | 41.92 | 1,047 | 0.32 | 0.32 | 57.2 |
| 4/26/2015 22:18:53 | 47.24 | 42.24 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/26/2015 22:18:53 | 47.57 | 42.57 | 1,050 | 0.33 | 0.32 | 57.4 |
| 4/26/2015 22:18:53 | 47.90 | 42.90 | 1,047 | 0.32 | 0.32 | 57.3 |
| 4/26/2015 22:18:54 | 48.23 | 43.23 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 22:18:54 | 48.56 | 43.56 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 22:18:54 | 48.88 | 43.88 | 1,016 | 0.32 | 0.32 | 55.6 |
| 4/26/2015 22:18:55 | 49.21 | 44.21 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 22:18:55 | 49.54 | 44.54 | 1,049 | 0.32 | 0.32 | 57.4 |
| 4/26/2015 22:18:55 | 49.87 | 44.87 | 1,041 | 0.33 | 0.32 | 56.9 |
| 4/26/2015 22:18:56 | 50.20 | 45.20 | 1,031 | 0.32 | 0.31 | 56.4 |
| 4/26/2015 22:18:56 | 50.53 | 45.53 | 1,031 | 0.32 | 0.31 | 56.4 |
| 4/26/2015 22:18:56 | 50.85 | 45.85 | 1,032 | 0.32 | 0.32 | 56.4 |
| 4/26/2015 22:18:57 | 51.18 | 46.18 | 1,060 | 0.33 | 0.31 | 58.0 |
| 4/26/2015 22:18:57 | 51.51 | 46.51 | 1,060 | 0.33 | 0.31 | 58.0 |
| 4/26/2015 22:18:57 | 51.84 | 46.84 | 1,044 | 0.31 | 0.34 | 57.1 |
| 4/26/2015 22:18:58 | 52.17 | 47.17 | 1,000 | 0.29 | 0.38 | 54.7 |
| 4/26/2015 22:19:11 | 52.49 | 47.49 | 41 | 2.75 | 0.37 | 2.3 |
| 4/26/2015 22:19:12 | 52.82 | 47.82 | 222 | 3.23 | 0.37 | 12.2 |
| 4/26/2015 22:19:21 | 53.15 | 48.15 | 0 | 2.73 | 0.32 | 0.0 |
| 4/26/2015 22:19:22 | 53.48 | 48.48 | 54 | 3.11 | 0.36 | 3.0 |
| 4/26/2015 22:19:24 | 53.81 | 48.81 | 293 | 3.54 | 0.40 | 16.0 |
| 4/26/2015 22:19:26 | 54.13 | 49.13 | 162 | 3.30 | 0.38 | 8.9 |
| 4/26/2015 22:19:27 | 54.46 | 49.46 | 206 | 3.60 | 0.39 | 11.3 |
| 4/26/2015 22:19:34 | 54.79 | 49.79 | 49 | 2.76 | 0.39 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:19:39 | 55.12 | 50.12 | 46 | 3.00 | 0.39 | 2.5 |
| 4/26/2015 | 22:19:45 | 55.45 | 50.45 | 57 | 3.45 | 0.40 | 3.1 |
| 4/26/2015 | 22:19:53 | 55.77 | 50.77 | 48 | 3.20 | 0.39 | 2.7 |
| 4/26/2015 | 22:20:00 | 56.10 | 51.10 | 58 | 3.26 | 0.40 | 3.1 |
| 4/26/2015 | 22:20:04 | 56.27 | 51.27 | 48 | 3.44 | 0.40 | 2.6 |

## H94 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:16:58

**End Date:**
4/26/2015 22:21:24

**Operator Note:**
'5 5.4b Auto Complete'

**Northing:**
365,914.10

**Easting:**
249,622.47

**Tide (feet):**
5.00



## Hole: H95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:13:22 | 35.43 | 30.23 | 1,038 | 0.31 | 0.31 | 56.8 |
| 4/26/2015 22:13:22 | 35.76 | 30.56 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 22:13:22 | 36.09 | 30.89 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/26/2015 22:13:23 | 36.42 | 31.22 | 1,042 | 0.31 | 0.32 | 57.0 |
| 4/26/2015 22:13:23 | 36.75 | 31.55 | 1,045 | 0.31 | 0.31 | 57.1 |
| 4/26/2015 22:13:23 | 37.07 | 31.87 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 22:13:24 | 37.40 | 32.20 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 22:13:24 | 37.73 | 32.53 | 1,018 | 0.31 | 0.34 | 55.7 |
| 4/26/2015 22:13:24 | 38.06 | 32.86 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 22:13:25 | 38.39 | 33.19 | 1,018 | 0.31 | 0.31 | 55.7 |
| 4/26/2015 22:13:25 | 38.71 | 33.51 | 1,047 | 0.32 | 0.31 | 57.2 |
| 4/26/2015 22:13:26 | 39.04 | 33.84 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 22:13:26 | 39.37 | 34.17 | 1,037 | 0.31 | 0.31 | 56.7 |
| 4/26/2015 22:13:26 | 39.70 | 34.50 | 1,040 | 0.31 | 0.31 | 56.9 |
| 4/26/2015 22:13:27 | 40.03 | 34.83 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/26/2015 22:13:27 | 40.35 | 35.15 | 1,055 | 0.31 | 0.31 | 57.7 |
| 4/26/2015 22:13:27 | 40.68 | 35.48 | 1,060 | 0.31 | 0.32 | 58.0 |
| 4/26/2015 22:13:28 | 41.01 | 35.81 | 1,060 | 0.31 | 0.32 | 58.0 |
| 4/26/2015 22:13:28 | 41.34 | 36.14 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 22:13:28 | 41.67 | 36.47 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 22:13:29 | 41.99 | 36.79 | 1,046 | 0.31 | 0.31 | 57.2 |
| 4/26/2015 22:13:29 | 42.32 | 37.12 | 1,043 | 0.31 | 0.32 | 57.0 |
| 4/26/2015 22:13:29 | 42.65 | 37.45 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 22:13:30 | 42.98 | 37.78 | 1,049 | 0.31 | 0.32 | 57.4 |
| 4/26/2015 22:13:30 | 43.31 | 38.11 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 22:13:30 | 43.64 | 38.44 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 22:13:31 | 43.96 | 38.76 | 1,019 | 0.31 | 0.32 | 55.7 |
| 4/26/2015 22:13:31 | 44.29 | 39.09 | 1,032 | 0.31 | 0.32 | 56.5 |
| 4/26/2015 22:13:31 | 44.62 | 39.42 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 22:13:32 | 44.95 | 39.75 | 1,035 | 0.31 | 0.32 | 56.6 |
| 4/26/2015 22:13:32 | 45.28 | 40.08 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 22:13:32 | 45.60 | 40.40 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/26/2015 22:13:33 | 45.93 | 40.73 | 1,020 | 0.29 | 0.32 | 55.8 |
| 4/26/2015 22:13:33 | 46.26 | 41.06 | 1,051 | 0.32 | 0.32 | 57.5 |
| 4/26/2015 22:13:33 | 46.59 | 41.39 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/26/2015 22:13:34 | 46.92 | 41.72 | 1,041 | 0.32 | 0.31 | 56.9 |
| 4/26/2015 22:13:34 | 47.24 | 42.04 | 1,035 | 0.31 | 0.31 | 56.6 |
| 4/26/2015 22:13:34 | 47.57 | 42.37 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 22:13:35 | 47.90 | 42.70 | 1,038 | 0.31 | 0.32 | 56.8 |
| 4/26/2015 22:13:35 | 48.23 | 43.03 | 1,030 | 0.31 | 0.31 | 56.3 |
| 4/26/2015 22:13:36 | 48.56 | 43.36 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 22:13:36 | 48.88 | 43.68 | 1,030 | 0.31 | 0.32 | 56.3 |
| 4/26/2015 22:13:36 | 49.21 | 44.01 | 1,032 | 0.31 | 0.32 | 56.4 |
| 4/26/2015 22:13:37 | 49.54 | 44.34 | 1,023 | 0.32 | 0.32 | 55.9 |
| 4/26/2015 22:13:37 | 49.87 | 44.67 | 1,023 | 0.32 | 0.32 | 55.9 |
| 4/26/2015 22:13:37 | 50.20 | 45.00 | 1,022 | 0.32 | 0.32 | 55.9 |
| 4/26/2015 22:13:38 | 50.53 | 45.33 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/26/2015 22:13:38 | 50.85 | 45.65 | 1,023 | 0.33 | 0.32 | 55.9 |
| 4/26/2015 22:13:38 | 51.18 | 45.98 | 1,040 | 0.32 | 0.32 | 56.9 |
| 4/26/2015 22:13:39 | 51.51 | 46.31 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 22:13:39 | 51.84 | 46.64 | 1,029 | 0.32 | 0.32 | 56.3 |
| 4/26/2015 22:13:39 | 52.17 | 46.97 | 1,029 | 0.31 | 0.33 | 56.3 |
| 4/26/2015 22:13:40 | 52.49 | 47.29 | 1,024 | 0.30 | 0.36 | 56.0 |
| 4/26/2015 22:13:47 | 52.82 | 47.62 | 9 | 4.26 | 0.38 | 0.5 |
| 4/26/2015 22:13:49 | 53.15 | 47.95 | 203 | 4.16 | 0.38 | 11.1 |
| 4/26/2015 22:13:52 | 53.48 | 48.28 | 129 | 2.93 | 0.40 | 7.1 |
| 4/26/2015 22:13:59 | 53.81 | 48.61 | 67 | 3.42 | 0.40 | 3.6 |
| 4/26/2015 22:14:05 | 54.13 | 48.93 | 0 | 3.49 | 0.37 | 0.0 |
| 4/26/2015 22:14:11 | 54.46 | 49.26 | 31 | 3.31 | 0.39 | 1.7 |
| 4/26/2015 22:14:14 | 54.79 | 49.59 | 98 | 3.66 | 0.40 | 5.4 |
| 4/26/2015 22:14:18 | 55.12 | 49.92 | 108 | 4.43 | 0.39 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 22:14:21 | 55.45 | 50.25 | 102 | 3.29 | 0.39 | 5.6 |
| 4/26/2015 | 22:14:23 | 55.77 | 50.57 | 133 | 3.42 | 0.38 | 7.2 |
| 4/26/2015 | 22:14:31 | 56.10 | 50.90 | 0 | 3.51 | 0.37 | 0.0 |
| 4/26/2015 | 22:14:33 | 56.43 | 51.23 | 78 | 3.37 | 0.39 | 4.3 |
| 4/26/2015 | 22:14:38 | 56.76 | 51.56 | 67 | 3.88 | 0.40 | 3.7 |
| 4/26/2015 | 22:14:44 | 57.09 | 51.89 | 58 | 3.33 | 0.40 | 3.2 |
| 4/26/2015 | 22:14:51 | 57.41 | 52.21 | 51 | 3.18 | 0.40 | 2.8 |
| 4/26/2015 | 22:14:57 | 57.74 | 52.54 | 60 | 3.09 | 0.40 | 3.3 |

## H95 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:11:38

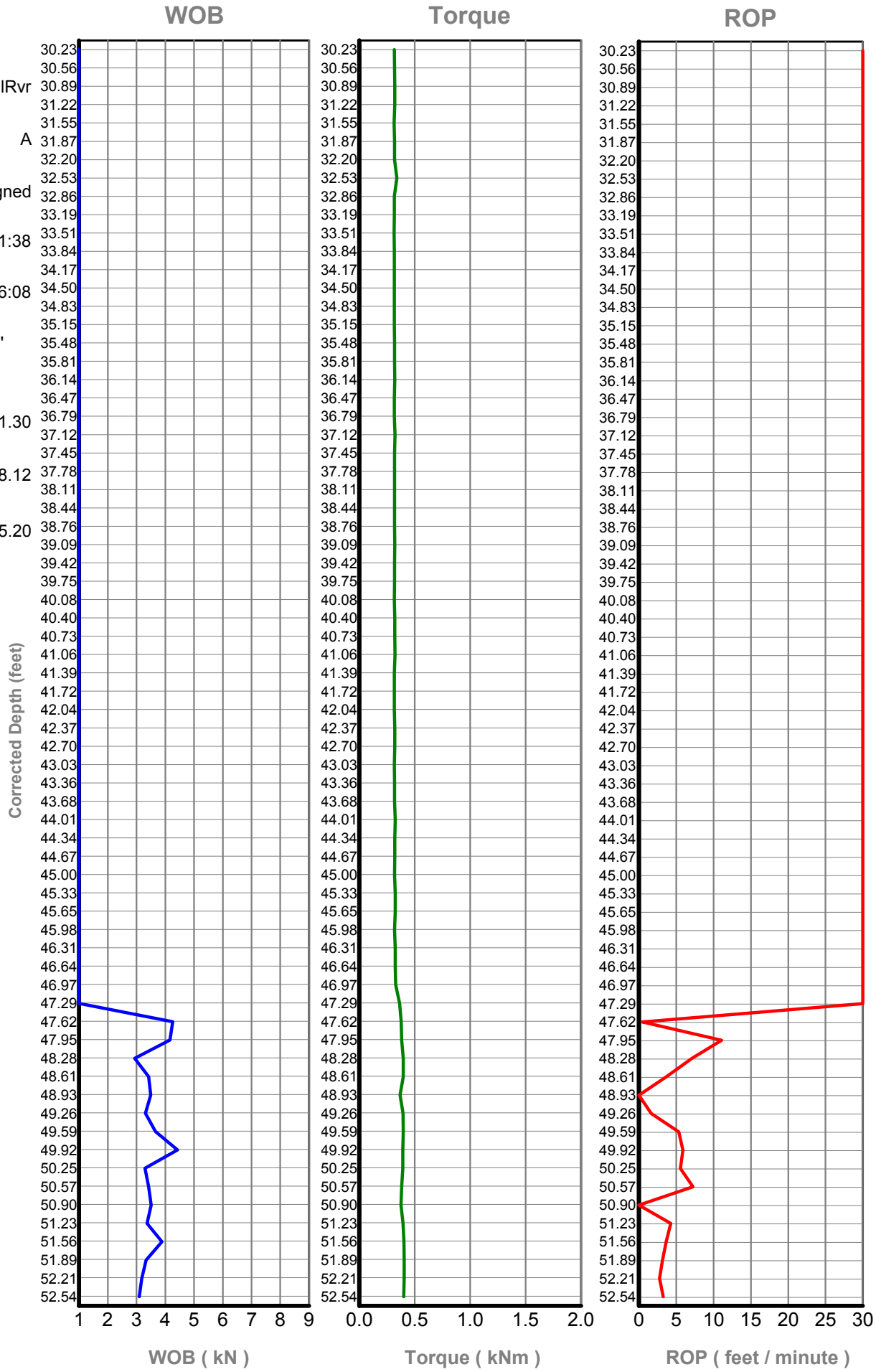
**End Date:**
4/26/2015 22:16:08

**Operator Note:**
'5.2 5.4b Auto Complete'

**Northing:**
365,951.30

**Easting:**
249,668.12

**Tide (feet):**
5.20



## Hole: H96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 22:15:13 | 35.43 | 30.23 | 569 | 1.78 | 0.16 | 31.1 |
| 4/26/2015 22:15:14 | 35.76 | 30.56 | 569 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 22:15:14 | 36.09 | 30.89 | 581 | 1.78 | 0.16 | 31.8 |
| 4/26/2015 22:15:15 | 36.42 | 31.22 | 578 | 1.76 | 0.16 | 31.6 |
| 4/26/2015 22:15:15 | 36.75 | 31.55 | 571 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 22:15:16 | 37.07 | 31.87 | 568 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 22:15:17 | 37.40 | 32.20 | 568 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 22:15:17 | 37.73 | 32.53 | 570 | 1.85 | 0.16 | 31.2 |
| 4/26/2015 22:15:18 | 38.06 | 32.86 | 573 | 1.78 | 0.16 | 31.3 |
| 4/26/2015 22:15:18 | 38.39 | 33.19 | 576 | 1.79 | 0.16 | 31.5 |
| 4/26/2015 22:15:19 | 38.71 | 33.51 | 573 | 1.76 | 0.16 | 31.3 |
| 4/26/2015 22:15:20 | 39.04 | 33.84 | 573 | 1.77 | 0.16 | 31.3 |
| 4/26/2015 22:15:21 | 39.37 | 34.17 | 569 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 22:15:21 | 39.70 | 34.50 | 573 | 1.78 | 0.16 | 31.3 |
| 4/26/2015 22:15:22 | 40.03 | 34.83 | 570 | 1.79 | 0.16 | 31.1 |
| 4/26/2015 22:15:22 | 40.35 | 35.15 | 573 | 1.78 | 0.16 | 31.3 |
| 4/26/2015 22:15:23 | 40.68 | 35.48 | 579 | 1.79 | 0.16 | 31.7 |
| 4/26/2015 22:15:24 | 41.01 | 35.81 | 572 | 1.77 | 0.16 | 31.3 |
| 4/26/2015 22:15:24 | 41.34 | 36.14 | 572 | 1.74 | 0.16 | 31.3 |
| 4/26/2015 22:15:25 | 41.67 | 36.47 | 569 | 1.76 | 0.16 | 31.1 |
| 4/26/2015 22:15:25 | 41.99 | 36.79 | 575 | 1.80 | 0.16 | 31.5 |
| 4/26/2015 22:15:26 | 42.32 | 37.12 | 575 | 1.78 | 0.16 | 31.5 |
| 4/26/2015 22:15:27 | 42.65 | 37.45 | 575 | 1.76 | 0.16 | 31.5 |
| 4/26/2015 22:15:27 | 42.98 | 37.78 | 572 | 1.79 | 0.16 | 31.3 |
| 4/26/2015 22:15:28 | 43.31 | 38.11 | 572 | 1.78 | 0.16 | 31.3 |
| 4/26/2015 22:15:28 | 43.64 | 38.44 | 569 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 22:15:29 | 43.96 | 38.76 | 570 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 22:15:30 | 44.29 | 39.09 | 570 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 22:15:30 | 44.62 | 39.42 | 570 | 1.79 | 0.16 | 31.2 |
| 4/26/2015 22:15:31 | 44.95 | 39.75 | 576 | 1.83 | 0.16 | 31.5 |
| 4/26/2015 22:15:32 | 45.28 | 40.08 | 570 | 1.76 | 0.16 | 31.1 |
| 4/26/2015 22:15:33 | 45.60 | 40.40 | 566 | 1.79 | 0.16 | 31.0 |
| 4/26/2015 22:15:33 | 45.93 | 40.73 | 566 | 1.80 | 0.16 | 31.0 |
| 4/26/2015 22:15:34 | 46.26 | 41.06 | 565 | 1.79 | 0.16 | 30.9 |
| 4/26/2015 22:15:34 | 46.59 | 41.39 | 565 | 1.78 | 0.16 | 30.9 |
| 4/26/2015 22:15:35 | 46.92 | 41.72 | 561 | 1.78 | 0.16 | 30.7 |
| 4/26/2015 22:15:36 | 47.24 | 42.04 | 575 | 1.79 | 0.16 | 31.4 |
| 4/26/2015 22:15:36 | 47.57 | 42.37 | 569 | 1.80 | 0.16 | 31.1 |
| 4/26/2015 22:15:37 | 47.90 | 42.70 | 569 | 1.76 | 0.16 | 31.1 |
| 4/26/2015 22:15:37 | 48.23 | 43.03 | 573 | 1.75 | 0.16 | 31.3 |
| 4/26/2015 22:15:38 | 48.56 | 43.36 | 566 | 1.77 | 0.16 | 30.9 |
| 4/26/2015 22:15:39 | 48.88 | 43.68 | 566 | 1.74 | 0.16 | 31.0 |
| 4/26/2015 22:16:09 | 49.21 | 44.01 | 70 | 1.73 | 1.13 | 3.8 |
| 4/26/2015 22:16:14 | 49.54 | 44.34 | 46 | 1.79 | 1.19 | 2.5 |
| 4/26/2015 22:16:22 | 49.87 | 44.67 | 49 | 1.79 | 1.17 | 2.7 |
| 4/26/2015 22:16:30 | 50.20 | 45.00 | 46 | 1.79 | 1.12 | 2.5 |
| 4/26/2015 22:16:38 | 50.53 | 45.33 | 43 | 1.79 | 1.09 | 2.4 |
| 4/26/2015 22:16:40 | 50.62 | 45.42 | 48 | 1.79 | 1.19 | 2.6 |

## H96 - Summary

**Pattern Number:**
AreaH_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 22:11:12

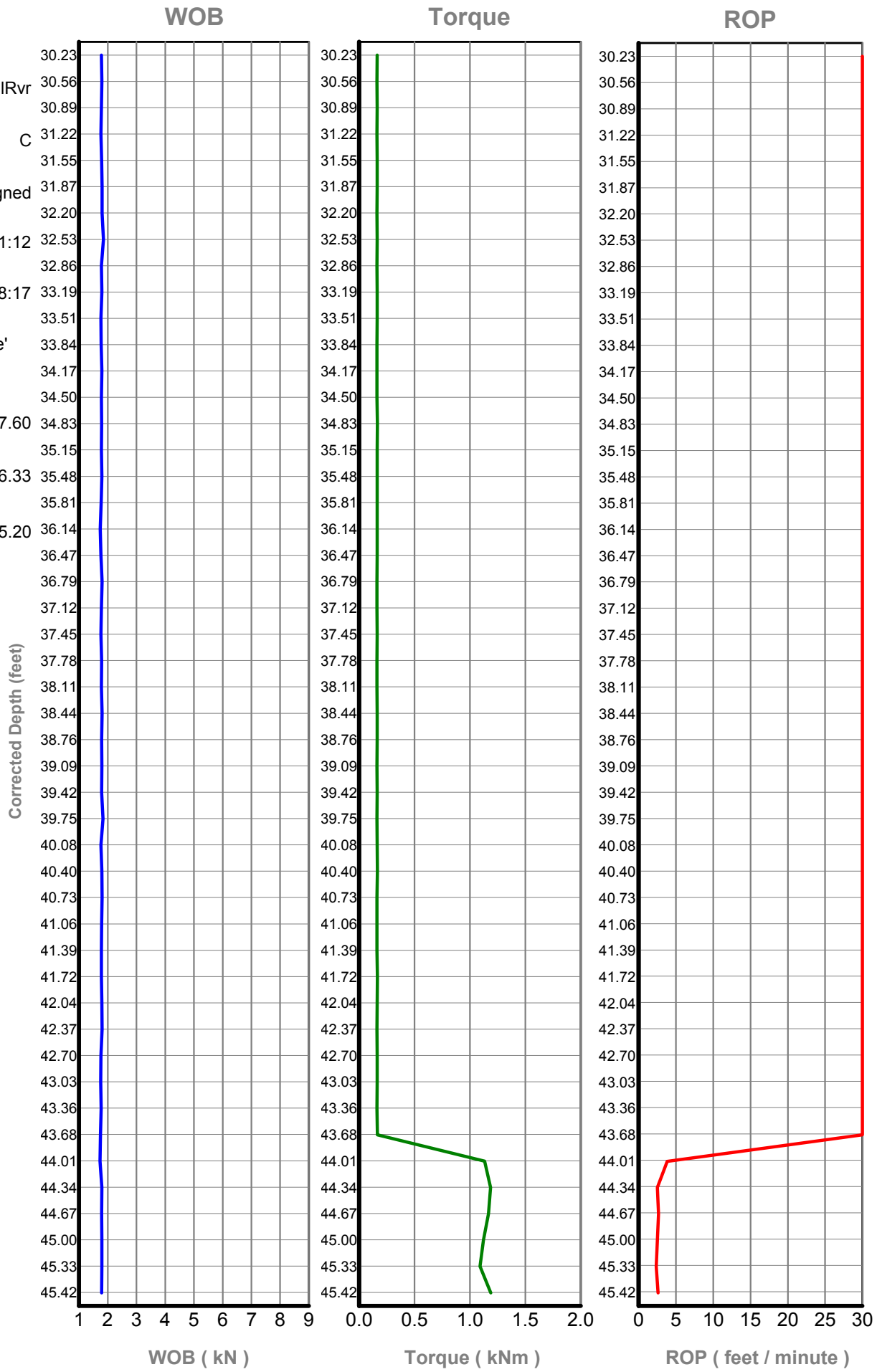
**End Date:**
4/26/2015 22:18:17

**Operator Note:**
'5.2 5.4 c Auto Complete'

**Northing:**
365,997.60

**Easting:**
249,726.33

**Tide (feet):**
5.20



## Hole: H97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:59:00 | 30.84 | 30.04 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:01 | 31.17 | 30.37 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:01 | 31.50 | 30.70 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 13:59:01 | 31.82 | 31.02 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 13:59:01 | 32.15 | 31.35 | 1,107 | 0.30 | 0.30 | 60.5 |
| 4/26/2015 13:59:02 | 32.48 | 31.68 | 1,104 | 0.31 | 0.30 | 60.4 |
| 4/26/2015 13:59:02 | 32.81 | 32.01 | 1,104 | 0.31 | 0.30 | 60.4 |
| 4/26/2015 13:59:02 | 33.14 | 32.34 | 1,104 | 0.31 | 0.31 | 60.4 |
| 4/26/2015 13:59:03 | 33.46 | 32.66 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 13:59:04 | 33.79 | 32.99 | 1,107 | 0.30 | 0.31 | 60.5 |
| 4/26/2015 13:59:04 | 34.12 | 33.32 | 1,104 | 0.30 | 0.30 | 60.4 |
| 4/26/2015 13:59:04 | 34.45 | 33.65 | 1,104 | 0.30 | 0.30 | 60.4 |
| 4/26/2015 13:59:04 | 34.78 | 33.98 | 1,104 | 0.31 | 0.31 | 60.4 |
| 4/26/2015 13:59:05 | 35.11 | 34.31 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:05 | 35.43 | 34.63 | 1,100 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:05 | 35.76 | 34.96 | 1,110 | 0.37 | 0.31 | 60.7 |
| 4/26/2015 13:59:06 | 36.09 | 35.29 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:59:06 | 36.42 | 35.62 | 1,104 | 0.30 | 0.31 | 60.4 |
| 4/26/2015 13:59:06 | 36.75 | 35.95 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:07 | 37.07 | 36.27 | 1,101 | 0.30 | 0.31 | 60.2 |
| 4/26/2015 13:59:07 | 37.40 | 36.60 | 1,099 | 0.31 | 0.31 | 60.1 |
| 4/26/2015 13:59:07 | 37.73 | 36.93 | 1,098 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:59:08 | 38.06 | 37.26 | 1,098 | 0.30 | 0.31 | 60.1 |
| 4/26/2015 13:59:08 | 38.39 | 37.59 | 1,096 | 0.30 | 0.30 | 59.9 |
| 4/26/2015 13:59:08 | 38.71 | 37.91 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 13:59:09 | 39.04 | 38.24 | 1,096 | 0.29 | 0.31 | 59.9 |
| 4/26/2015 13:59:09 | 39.37 | 38.57 | 1,092 | 0.29 | 0.31 | 59.7 |
| 4/26/2015 13:59:09 | 39.70 | 38.90 | 1,092 | 0.29 | 0.31 | 59.7 |
| 4/26/2015 13:59:09 | 40.03 | 39.23 | 1,104 | 0.31 | 0.31 | 60.4 |
| 4/26/2015 13:59:10 | 40.35 | 39.55 | 1,108 | 0.30 | 0.30 | 60.6 |
| 4/26/2015 13:59:11 | 40.68 | 39.88 | 1,108 | 0.30 | 0.30 | 60.6 |
| 4/26/2015 13:59:10 | 41.01 | 40.21 | 1,058 | 0.30 | 0.31 | 57.8 |
| 4/26/2015 13:59:11 | 41.34 | 40.54 | 1,058 | 0.30 | 0.31 | 57.8 |
| 4/26/2015 13:59:12 | 41.67 | 40.87 | 1,058 | 0.30 | 0.31 | 57.8 |
| 4/26/2015 13:59:11 | 41.99 | 41.19 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:59:12 | 42.32 | 41.52 | 1,064 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:59:12 | 42.65 | 41.85 | 1,064 | 0.29 | 0.31 | 58.2 |
| 4/26/2015 13:59:13 | 42.98 | 42.18 | 1,092 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:59:13 | 43.31 | 42.51 | 1,092 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:59:13 | 43.64 | 42.84 | 1,054 | 0.29 | 0.31 | 57.7 |
| 4/26/2015 13:59:14 | 43.96 | 43.16 | 1,054 | 0.30 | 0.31 | 57.7 |
| 4/26/2015 13:59:14 | 44.29 | 43.49 | 1,054 | 0.30 | 0.31 | 57.7 |
| 4/26/2015 13:59:14 | 44.62 | 43.82 | 1,048 | 0.30 | 0.31 | 57.3 |
| 4/26/2015 13:59:14 | 44.95 | 44.15 | 1,048 | 0.30 | 0.31 | 57.3 |
| 4/26/2015 13:59:15 | 45.28 | 44.48 | 1,048 | 0.30 | 0.31 | 57.3 |
| 4/26/2015 13:59:15 | 45.60 | 44.80 | 1,095 | 0.31 | 0.30 | 59.9 |
| 4/26/2015 13:59:16 | 45.93 | 45.13 | 1,095 | 0.31 | 0.30 | 59.9 |
| 4/26/2015 13:59:16 | 46.26 | 45.46 | 1,086 | 0.29 | 0.33 | 59.4 |
| 4/26/2015 13:59:19 | 46.59 | 45.79 | 94 | 2.78 | 0.38 | 5.1 |
| 4/26/2015 13:59:29 | 46.92 | 46.12 | 62 | 3.34 | 0.39 | 3.4 |
| 4/26/2015 13:59:35 | 47.24 | 46.44 | 60 | 3.36 | 0.40 | 3.3 |
| 4/26/2015 13:59:40 | 47.57 | 46.77 | 67 | 3.14 | 0.39 | 3.6 |

## H97 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:57:23

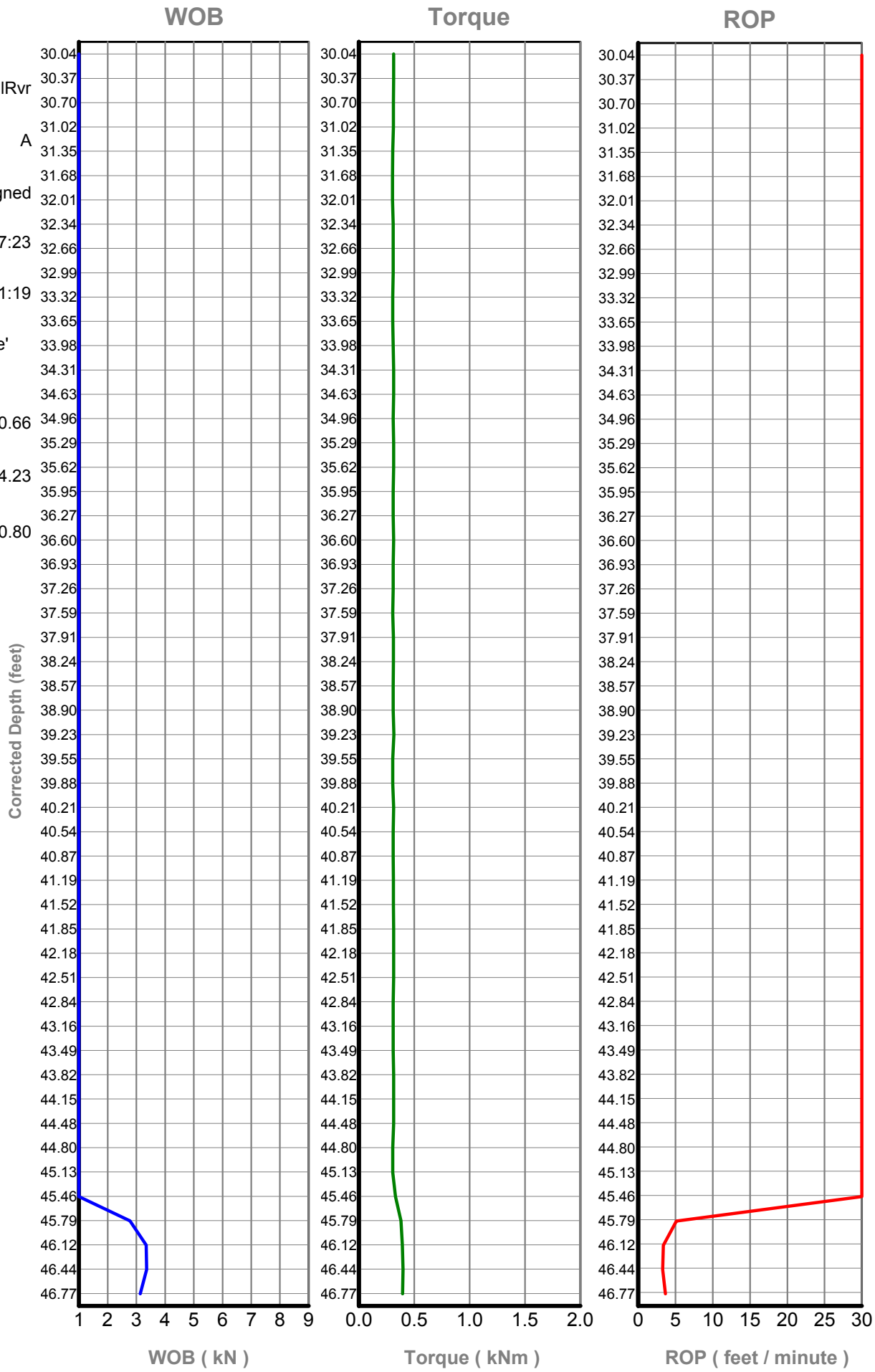
**End Date:**
4/26/2015 14:01:19

**Operator Note:**
'0.8 0.9 b Auto Complete'

**Northing:**
366,060.66

**Easting:**
249,804.23

**Tide (feet):**
0.80



## Hole: H98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:54:27 | 31.17 | 30.27 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 13:54:27 | 31.50 | 30.60 | 1,110 | 0.30 | 0.31 | 60.7 |
| 4/26/2015 13:54:27 | 31.82 | 30.92 | 1,093 | 0.30 | 0.31 | 59.8 |
| 4/26/2015 13:54:28 | 32.15 | 31.25 | 1,093 | 0.30 | 0.31 | 59.8 |
| 4/26/2015 13:54:28 | 32.48 | 31.58 | 1,096 | 0.30 | 0.31 | 59.9 |
| 4/26/2015 13:54:28 | 32.81 | 31.91 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 13:54:29 | 33.14 | 32.24 | 1,090 | 0.29 | 0.31 | 59.6 |
| 4/26/2015 13:54:29 | 33.46 | 32.56 | 1,093 | 0.30 | 0.31 | 59.7 |
| 4/26/2015 13:54:29 | 33.79 | 32.89 | 1,080 | 0.30 | 0.31 | 59.0 |
| 4/26/2015 13:54:30 | 34.12 | 33.22 | 1,080 | 0.30 | 0.31 | 59.0 |
| 4/26/2015 13:54:30 | 34.45 | 33.55 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 13:54:30 | 34.78 | 33.88 | 1,099 | 0.29 | 0.31 | 60.1 |
| 4/26/2015 13:54:30 | 35.11 | 34.21 | 1,094 | 0.24 | 0.31 | 59.8 |
| 4/26/2015 13:54:31 | 35.43 | 34.53 | 1,094 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 13:54:31 | 35.76 | 34.86 | 1,094 | 0.27 | 0.31 | 59.8 |
| 4/26/2015 13:54:31 | 36.09 | 35.19 | 1,094 | 0.29 | 0.31 | 59.8 |
| 4/26/2015 13:54:32 | 36.42 | 35.52 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 13:54:33 | 36.75 | 35.85 | 1,100 | 0.29 | 0.31 | 60.2 |
| 4/26/2015 13:54:33 | 37.07 | 36.17 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 13:54:33 | 37.40 | 36.50 | 1,087 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 13:54:33 | 37.73 | 36.83 | 1,087 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 13:54:34 | 38.06 | 37.16 | 1,080 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 13:54:34 | 38.39 | 37.49 | 1,080 | 0.30 | 0.31 | 59.1 |
| 4/26/2015 13:54:34 | 38.71 | 37.81 | 1,090 | 0.29 | 0.30 | 59.6 |
| 4/26/2015 13:54:35 | 39.04 | 38.14 | 1,062 | 0.31 | 0.30 | 58.1 |
| 4/26/2015 13:54:35 | 39.37 | 38.47 | 1,062 | 0.31 | 0.30 | 58.1 |
| 4/26/2015 13:54:35 | 39.70 | 38.80 | 1,062 | 0.29 | 0.31 | 58.1 |
| 4/26/2015 13:54:36 | 40.03 | 39.13 | 1,062 | 0.29 | 0.31 | 58.1 |
| 4/26/2015 13:54:36 | 40.35 | 39.45 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 13:54:36 | 40.68 | 39.78 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 13:54:37 | 41.01 | 40.11 | 1,082 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 13:54:37 | 41.34 | 40.44 | 1,086 | 0.29 | 0.31 | 59.4 |
| 4/26/2015 13:54:37 | 41.67 | 40.77 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:54:38 | 41.99 | 41.09 | 1,065 | 0.30 | 0.31 | 58.2 |
| 4/26/2015 13:54:38 | 42.32 | 41.42 | 1,086 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 13:54:38 | 42.65 | 41.75 | 1,086 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 13:54:39 | 42.98 | 42.08 | 1,086 | 0.30 | 0.31 | 59.4 |
| 4/26/2015 13:54:39 | 43.31 | 42.41 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 13:54:39 | 43.64 | 42.74 | 1,070 | 0.29 | 0.30 | 58.5 |
| 4/26/2015 13:54:39 | 43.96 | 43.06 | 1,070 | 0.30 | 0.31 | 58.5 |
| 4/26/2015 13:54:40 | 44.29 | 43.39 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/26/2015 13:54:40 | 44.62 | 43.72 | 1,074 | 0.30 | 0.31 | 58.7 |
| 4/26/2015 13:54:40 | 44.95 | 44.05 | 1,077 | 0.30 | 0.31 | 58.9 |
| 4/26/2015 13:54:41 | 45.28 | 44.38 | 1,083 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:54:41 | 45.60 | 44.70 | 1,083 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:54:41 | 45.93 | 45.03 | 1,083 | 0.29 | 0.31 | 59.2 |
| 4/26/2015 13:54:42 | 46.26 | 45.36 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:54:43 | 46.59 | 45.69 | 1,082 | 0.30 | 0.31 | 59.2 |
| 4/26/2015 13:54:42 | 46.92 | 46.02 | 1,072 | 0.28 | 0.35 | 58.6 |
| 4/26/2015 13:54:48 | 47.24 | 46.34 | 0 | 4.66 | 0.38 | 0.0 |
| 4/26/2015 13:54:50 | 47.57 | 46.67 | 175 | 4.85 | 0.41 | 9.5 |
| 4/26/2015 13:54:57 | 47.90 | 47.00 | 78 | 5.76 | 0.40 | 4.2 |
| 4/26/2015 13:55:00 | 48.23 | 47.33 | 80 | 3.67 | 0.38 | 4.4 |
| 4/26/2015 13:55:02 | 48.56 | 47.66 | 163 | 3.75 | 0.38 | 8.9 |
| 4/26/2015 13:55:04 | 48.88 | 47.98 | 244 | 3.58 | 0.37 | 13.4 |
| 4/26/2015 13:55:10 | 49.21 | 48.31 | 76 | 4.08 | 0.39 | 4.2 |
| 4/26/2015 13:55:12 | 49.54 | 48.64 | 203 | 3.52 | 0.38 | 11.1 |
| 4/26/2015 13:55:14 | 49.87 | 48.97 | 226 | 2.74 | 0.39 | 12.3 |
| 4/26/2015 13:55:18 | 50.20 | 49.30 | 103 | 3.64 | 0.38 | 5.7 |
| 4/26/2015 13:55:19 | 50.53 | 49.63 | 150 | 3.88 | 0.38 | 8.2 |
| 4/26/2015 13:55:22 | 50.85 | 49.95 | 162 | 3.59 | 0.39 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/26/2015 | 13:55:25 | 51.18 | 50.28 | 145 | 4.03 | 0.39 | 7.9 |
| 4/26/2015 | 13:55:27 | 51.51 | 50.61 | 136 | 3.45 | 0.39 | 7.4 |
| 4/26/2015 | 13:55:30 | 51.84 | 50.94 | 110 | 3.44 | 0.40 | 6.0 |
| 4/26/2015 | 13:55:33 | 52.17 | 51.27 | 120 | 3.87 | 0.42 | 6.6 |
| 4/26/2015 | 13:55:36 | 52.49 | 51.59 | 168 | 3.43 | 0.39 | 9.2 |
| 4/26/2015 | 13:55:38 | 52.82 | 51.92 | 171 | 3.36 | 0.38 | 9.3 |
| 4/26/2015 | 13:55:41 | 53.15 | 52.25 | 107 | 3.47 | 0.39 | 5.8 |
| 4/26/2015 | 13:55:45 | 53.48 | 52.58 | 78 | 3.88 | 0.39 | 4.3 |
| 4/26/2015 | 13:55:51 | 53.81 | 52.91 | 64 | 3.93 | 0.39 | 3.5 |
| 4/26/2015 | 13:55:54 | 54.13 | 53.23 | 119 | 3.98 | 0.39 | 6.5 |
| 4/26/2015 | 13:55:56 | 54.46 | 53.56 | 166 | 4.29 | 0.38 | 9.1 |
| 4/26/2015 | 13:55:58 | 54.79 | 53.89 | 219 | 3.18 | 0.38 | 12.0 |
| 4/26/2015 | 13:56:03 | 55.12 | 54.22 | 75 | 3.95 | 0.39 | 4.1 |
| 4/26/2015 | 13:56:05 | 55.45 | 54.55 | 179 | 3.22 | 0.37 | 9.8 |
| 4/26/2015 | 13:56:07 | 55.77 | 54.87 | 260 | 2.80 | 0.38 | 14.2 |
| 4/26/2015 | 13:56:07 | 56.06 | 55.16 | 278 | 2.73 | 0.38 | 15.2 |

## H98 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:52:45

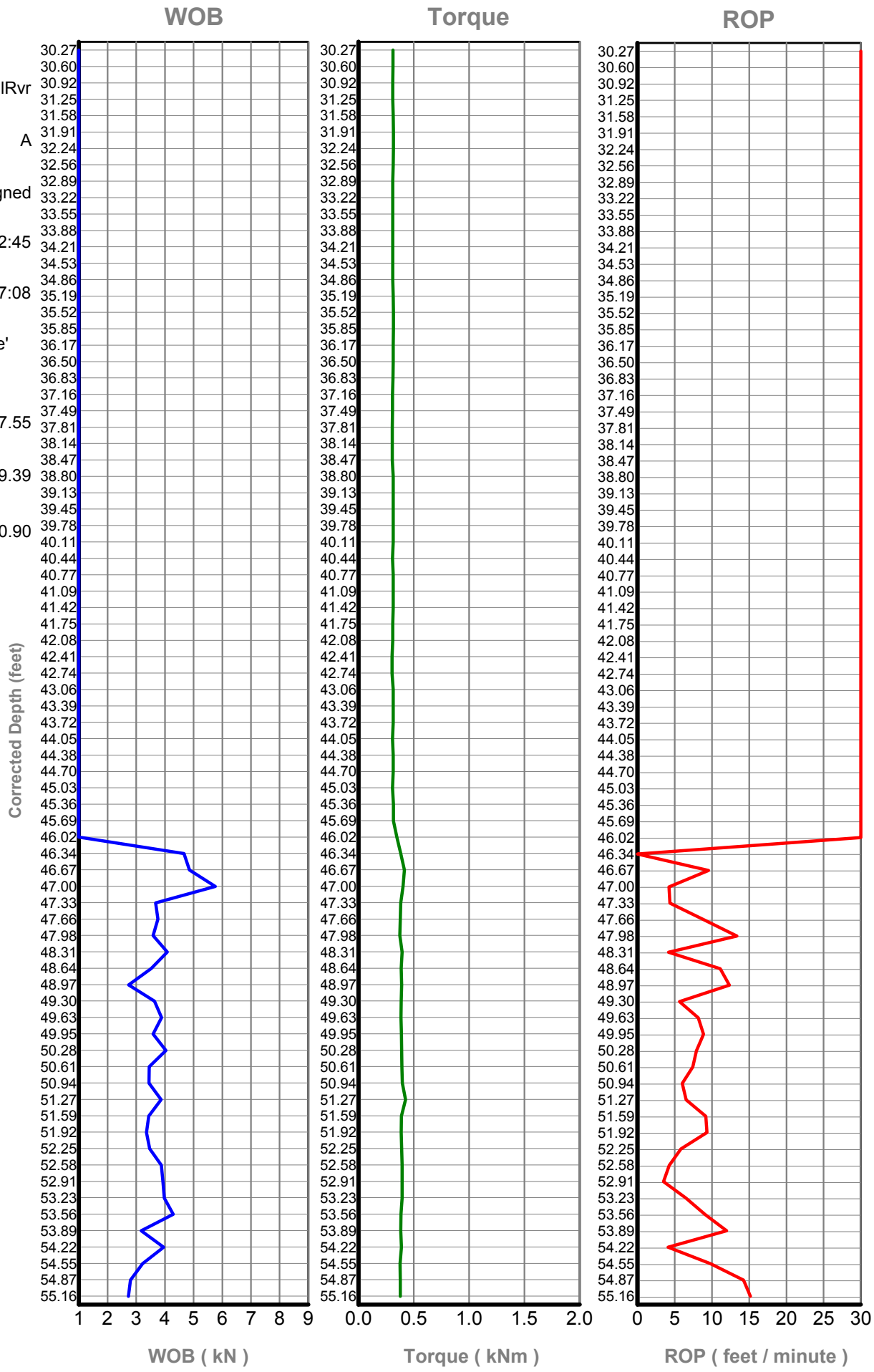
**End Date:**
4/26/2015 13:57:08

**Operator Note:**
'0.9 1.0 b Auto Complete'

**Northing:**
366,097.55

**Easting:**
249,849.39

**Tide (feet):**
0.90



## Hole: H99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/26/2015 13:56:53 | 31.17 | 30.27 | 662 | 1.76 | 0.28 | 36.2 |
| 4/26/2015 13:56:54 | 31.50 | 30.60 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 13:56:54 | 31.82 | 30.92 | 656 | 1.74 | 0.28 | 35.9 |
| 4/26/2015 13:56:55 | 32.15 | 31.25 | 659 | 1.75 | 0.28 | 36.0 |
| 4/26/2015 13:56:55 | 32.48 | 31.58 | 659 | 1.75 | 0.28 | 36.0 |
| 4/26/2015 13:56:56 | 32.81 | 31.91 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 13:56:56 | 33.14 | 32.24 | 656 | 1.75 | 0.27 | 35.9 |
| 4/26/2015 13:56:57 | 33.46 | 32.56 | 652 | 1.75 | 0.28 | 35.7 |
| 4/26/2015 13:56:58 | 33.79 | 32.89 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 13:56:58 | 34.12 | 33.22 | 653 | 1.75 | 0.28 | 35.7 |
| 4/26/2015 13:56:59 | 34.45 | 33.55 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:56:59 | 34.78 | 33.88 | 653 | 1.74 | 0.28 | 35.7 |
| 4/26/2015 13:57:00 | 35.11 | 34.21 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:01 | 35.43 | 34.53 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:01 | 35.76 | 34.86 | 649 | 1.76 | 0.28 | 35.5 |
| 4/26/2015 13:57:02 | 36.09 | 35.19 | 656 | 1.75 | 0.28 | 35.9 |
| 4/26/2015 13:57:02 | 36.42 | 35.52 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:03 | 36.75 | 35.85 | 653 | 1.74 | 0.28 | 35.7 |
| 4/26/2015 13:57:03 | 37.07 | 36.17 | 656 | 1.75 | 0.28 | 35.9 |
| 4/26/2015 13:57:04 | 37.40 | 36.50 | 660 | 1.75 | 0.28 | 36.1 |
| 4/26/2015 13:57:04 | 37.73 | 36.83 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:05 | 38.06 | 37.16 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:05 | 38.39 | 37.49 | 636 | 1.75 | 0.28 | 34.8 |
| 4/26/2015 13:57:06 | 38.71 | 37.81 | 633 | 1.75 | 0.28 | 34.6 |
| 4/26/2015 13:57:07 | 39.04 | 38.14 | 637 | 1.77 | 0.28 | 34.8 |
| 4/26/2015 13:57:07 | 39.37 | 38.47 | 633 | 1.76 | 0.28 | 34.6 |
| 4/26/2015 13:57:08 | 39.70 | 38.80 | 633 | 1.76 | 0.28 | 34.6 |
| 4/26/2015 13:57:08 | 40.03 | 39.13 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:57:09 | 40.35 | 39.45 | 644 | 1.76 | 0.27 | 35.2 |
| 4/26/2015 13:57:09 | 40.68 | 39.78 | 653 | 1.76 | 0.28 | 35.7 |
| 4/26/2015 13:57:10 | 41.01 | 40.11 | 641 | 1.76 | 0.28 | 35.0 |
| 4/26/2015 13:57:11 | 41.34 | 40.44 | 647 | 1.76 | 0.28 | 35.4 |
| 4/26/2015 13:57:11 | 41.67 | 40.77 | 644 | 1.76 | 0.27 | 35.2 |
| 4/26/2015 13:57:12 | 41.99 | 41.09 | 644 | 1.75 | 0.28 | 35.2 |
| 4/26/2015 13:57:13 | 42.32 | 41.42 | 659 | 1.76 | 0.28 | 36.0 |
| 4/26/2015 13:57:14 | 42.65 | 41.75 | 659 | 1.76 | 0.28 | 36.0 |
| 4/26/2015 13:57:13 | 42.98 | 42.08 | 655 | 1.77 | 0.28 | 35.8 |
| 4/26/2015 13:57:14 | 43.31 | 42.41 | 655 | 1.76 | 0.28 | 35.8 |
| 4/26/2015 13:57:14 | 43.64 | 42.74 | 656 | 1.76 | 0.28 | 35.9 |
| 4/26/2015 13:57:15 | 43.96 | 43.06 | 655 | 1.74 | 0.28 | 35.8 |
| 4/26/2015 13:57:15 | 44.29 | 43.39 | 648 | 1.74 | 0.28 | 35.4 |
| 4/26/2015 13:57:16 | 44.62 | 43.72 | 628 | 1.75 | 0.28 | 34.3 |
| 4/26/2015 13:57:28 | 44.95 | 44.05 | 0 | 1.68 | 1.11 | 0.0 |
| 4/26/2015 13:57:29 | 45.28 | 44.38 | 63 | 1.79 | 0.91 | 3.4 |
| 4/26/2015 13:57:59 | 45.60 | 44.70 | 0 | 1.74 | 1.10 | 0.0 |
| 4/26/2015 13:58:01 | 45.93 | 45.03 | 153 | 1.74 | 1.11 | 8.4 |
| 4/26/2015 13:58:04 | 46.26 | 45.36 | 110 | 1.73 | 1.20 | 6.0 |
| 4/26/2015 13:58:18 | 46.59 | 45.69 | 66 | 1.73 | 1.06 | 3.6 |
| 4/26/2015 13:58:21 | 46.92 | 46.02 | 151 | 1.72 | 1.05 | 8.2 |
| 4/26/2015 13:58:25 | 47.24 | 46.34 | 29 | 1.77 | 1.04 | 1.6 |
| 4/26/2015 13:58:38 | 47.57 | 46.67 | 27 | 1.77 | 0.98 | 1.5 |
| 4/26/2015 13:58:43 | 47.90 | 47.00 | 102 | 1.76 | 1.13 | 5.6 |
| 4/26/2015 13:58:56 | 48.23 | 47.33 | 23 | 1.77 | 0.92 | 1.3 |
| 4/26/2015 13:59:10 | 48.56 | 47.66 | 28 | 1.78 | 1.02 | 1.5 |
| 4/26/2015 13:59:24 | 48.88 | 47.98 | 26 | 1.77 | 0.94 | 1.4 |
| 4/26/2015 13:59:27 | 48.98 | 48.08 | 22 | 1.78 | 1.00 | 1.2 |

## H99 - Summary

**Pattern Number:**
AreaH_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/26/2015 13:55:15

**End Date:**
4/26/2015 14:02:08

**Operator Note:**
'0.9 !.0 C Auto Complete'

**Northing:**
366,146.57

**Easting:**
249,907.02

**Tide (feet):**
0.90



## Hole: I1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:42:38 | 30.84 | 30.04 | 763 | 1.07 | 0.20 | 41.7 |
| 4/29/2015 4:42:39 | 31.17 | 30.37 | 760 | 1.07 | 0.20 | 41.6 |
| 4/29/2015 4:42:40 | 31.50 | 30.70 | 763 | 1.07 | 0.20 | 41.7 |
| 4/29/2015 4:42:40 | 31.82 | 31.02 | 763 | 1.06 | 0.20 | 41.7 |
| 4/29/2015 4:42:41 | 32.15 | 31.35 | 748 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 4:42:41 | 32.48 | 31.68 | 748 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 4:42:42 | 32.81 | 32.01 | 752 | 1.07 | 0.20 | 41.1 |
| 4/29/2015 4:42:42 | 33.14 | 32.34 | 752 | 1.07 | 0.20 | 41.1 |
| 4/29/2015 4:42:42 | 33.46 | 32.66 | 754 | 1.09 | 0.20 | 41.2 |
| 4/29/2015 4:42:43 | 33.79 | 32.99 | 756 | 1.07 | 0.19 | 41.4 |
| 4/29/2015 4:42:43 | 34.12 | 33.32 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 4:42:44 | 34.45 | 33.65 | 763 | 1.07 | 0.19 | 41.7 |
| 4/29/2015 4:42:44 | 34.78 | 33.98 | 760 | 1.07 | 0.19 | 41.6 |
| 4/29/2015 4:42:45 | 35.11 | 34.31 | 757 | 1.08 | 0.19 | 41.4 |
| 4/29/2015 4:42:45 | 35.43 | 34.63 | 757 | 1.07 | 0.19 | 41.4 |
| 4/29/2015 4:42:46 | 35.76 | 34.96 | 755 | 1.07 | 0.20 | 41.3 |
| 4/29/2015 4:42:46 | 36.09 | 35.29 | 757 | 1.07 | 0.20 | 41.4 |
| 4/29/2015 4:42:47 | 36.42 | 35.62 | 754 | 1.07 | 0.20 | 41.3 |
| 4/29/2015 4:42:47 | 36.75 | 35.95 | 754 | 1.07 | 0.20 | 41.3 |
| 4/29/2015 4:42:47 | 37.07 | 36.27 | 757 | 1.08 | 0.19 | 41.4 |
| 4/29/2015 4:42:48 | 37.40 | 36.60 | 753 | 1.09 | 0.20 | 41.2 |
| 4/29/2015 4:42:48 | 37.73 | 36.93 | 760 | 1.19 | 0.25 | 41.6 |
| 4/29/2015 4:42:49 | 38.06 | 37.26 | 749 | 1.19 | 0.25 | 40.9 |
| 4/29/2015 4:42:50 | 38.39 | 37.59 | 737 | 1.19 | 0.25 | 40.3 |
| 4/29/2015 4:42:50 | 38.71 | 37.91 | 723 | 1.05 | 0.19 | 39.5 |
| 4/29/2015 4:43:17 | 39.04 | 38.24 | 0 | 1.07 | 0.19 | 0.0 |
| 4/29/2015 4:43:18 | 39.37 | 38.57 | 111 | 1.08 | 0.19 | 6.1 |
| 4/29/2015 4:43:18 | 39.70 | 38.90 | 264 | 1.09 | 0.19 | 14.5 |
| 4/29/2015 4:43:19 | 40.03 | 39.23 | 410 | 1.08 | 0.19 | 22.4 |
| 4/29/2015 4:43:19 | 40.35 | 39.55 | 556 | 1.07 | 0.19 | 30.4 |
| 4/29/2015 4:43:20 | 40.68 | 39.88 | 701 | 1.07 | 0.19 | 38.3 |
| 4/29/2015 4:43:21 | 41.01 | 40.21 | 740 | 1.11 | 0.20 | 40.5 |
| 4/29/2015 4:43:21 | 41.34 | 40.54 | 716 | 1.11 | 0.20 | 39.1 |
| 4/29/2015 4:43:22 | 41.67 | 40.87 | 716 | 1.13 | 0.23 | 39.1 |
| 4/29/2015 4:43:22 | 41.99 | 41.19 | 716 | 1.13 | 0.23 | 39.1 |
| 4/29/2015 4:43:22 | 42.32 | 41.52 | 719 | 1.10 | 0.19 | 39.3 |
| 4/29/2015 4:43:23 | 42.65 | 41.85 | 720 | 1.08 | 0.19 | 39.4 |
| 4/29/2015 4:43:23 | 42.98 | 42.18 | 699 | 1.09 | 0.19 | 38.2 |
| 4/29/2015 4:43:24 | 43.31 | 42.51 | 699 | 1.09 | 0.19 | 38.2 |
| 4/29/2015 4:43:24 | 43.64 | 42.84 | 707 | 1.07 | 0.19 | 38.7 |
| 4/29/2015 4:43:25 | 43.96 | 43.16 | 721 | 1.09 | 0.19 | 39.4 |
| 4/29/2015 4:43:25 | 44.29 | 43.49 | 720 | 1.09 | 0.17 | 39.4 |
| 4/29/2015 4:43:26 | 44.62 | 43.82 | 715 | 1.08 | 0.19 | 39.1 |
| 4/29/2015 4:43:26 | 44.95 | 44.15 | 736 | 1.09 | 0.19 | 40.3 |
| 4/29/2015 4:43:27 | 45.28 | 44.48 | 726 | 1.07 | 0.19 | 39.7 |
| 4/29/2015 4:43:27 | 45.60 | 44.80 | 726 | 1.07 | 0.19 | 39.7 |
| 4/29/2015 4:43:28 | 45.93 | 45.13 | 723 | 1.11 | 0.19 | 39.5 |
| 4/29/2015 4:43:29 | 46.26 | 45.46 | 619 | 0.57 | 0.17 | 33.8 |
| 4/29/2015 4:43:51 | 46.59 | 45.79 | 116 | 1.08 | 1.61 | 6.4 |
| 4/29/2015 4:44:01 | 46.92 | 46.12 | 40 | 0.98 | 1.24 | 2.2 |
| 4/29/2015 4:44:03 | 47.24 | 46.44 | 153 | 1.36 | 1.79 | 8.4 |
| 4/29/2015 4:44:04 | 47.57 | 46.77 | 301 | 1.05 | 1.71 | 16.5 |
| 4/29/2015 4:44:08 | 47.90 | 47.10 | 0 | 1.17 | 0.83 | 0.0 |
| 4/29/2015 4:44:10 | 48.23 | 47.43 | 167 | 2.05 | 0.82 | 9.2 |
| 4/29/2015 4:44:10 | 48.56 | 47.76 | 167 | 2.05 | 0.82 | 9.2 |
| 4/29/2015 4:44:16 | 48.88 | 48.08 | 33 | 1.13 | 0.85 | 1.8 |
| 4/29/2015 4:44:19 | 49.21 | 48.41 | 142 | 1.14 | 0.94 | 7.7 |
| 4/29/2015 4:44:22 | 49.54 | 48.74 | 110 | 1.15 | 1.11 | 6.0 |
| 4/29/2015 4:44:26 | 49.87 | 49.07 | 84 | 1.15 | 1.04 | 4.6 |
| 4/29/2015 4:44:31 | 50.20 | 49.40 | 78 | 1.10 | 1.00 | 4.3 |
| 4/29/2015 4:44:36 | 50.53 | 49.73 | 69 | 1.16 | 1.05 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:44:40 | 50.85 | 50.05 | 87 | 1.15 | 0.98 | 4.7 |
| 4/29/2015 | 4:44:44 | 51.18 | 50.38 | 95 | 1.01 | 0.94 | 5.2 |
| 4/29/2015 | 4:44:46 | 51.51 | 50.71 | 147 | 1.11 | 0.85 | 8.1 |
| 4/29/2015 | 4:44:48 | 51.84 | 51.04 | 178 | 1.06 | 0.86 | 9.7 |
| 4/29/2015 | 4:44:50 | 52.17 | 51.37 | 185 | 1.09 | 0.89 | 10.1 |
| 4/29/2015 | 4:44:59 | 52.49 | 51.69 | 0 | 1.09 | 0.86 | 0.0 |
| 4/29/2015 | 4:45:04 | 52.82 | 52.02 | 63 | 1.16 | 1.09 | 3.4 |
| 4/29/2015 | 4:45:09 | 53.15 | 52.35 | 96 | 1.06 | 1.09 | 5.3 |
| 4/29/2015 | 4:45:13 | 53.48 | 52.68 | 89 | 1.08 | 1.15 | 4.9 |
| 4/29/2015 | 4:45:17 | 53.81 | 53.01 | 96 | 1.02 | 1.00 | 5.2 |
| 4/29/2015 | 4:45:21 | 54.13 | 53.33 | 74 | 1.09 | 1.06 | 4.0 |
| 4/29/2015 | 4:45:26 | 54.46 | 53.66 | 88 | 1.04 | 1.03 | 4.8 |
| 4/29/2015 | 4:45:31 | 54.79 | 53.99 | 68 | 0.98 | 1.15 | 3.7 |
| 4/29/2015 | 4:45:35 | 55.12 | 54.32 | 81 | 1.00 | 1.15 | 4.4 |
| 4/29/2015 | 4:45:39 | 55.45 | 54.65 | 95 | 1.00 | 1.15 | 5.2 |
| 4/29/2015 | 4:45:43 | 55.77 | 54.97 | 113 | 1.15 | 1.28 | 6.2 |
| 4/29/2015 | 4:45:43 | 55.81 | 55.01 | 113 | 1.15 | 1.28 | 6.2 |

## I1 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:40:22

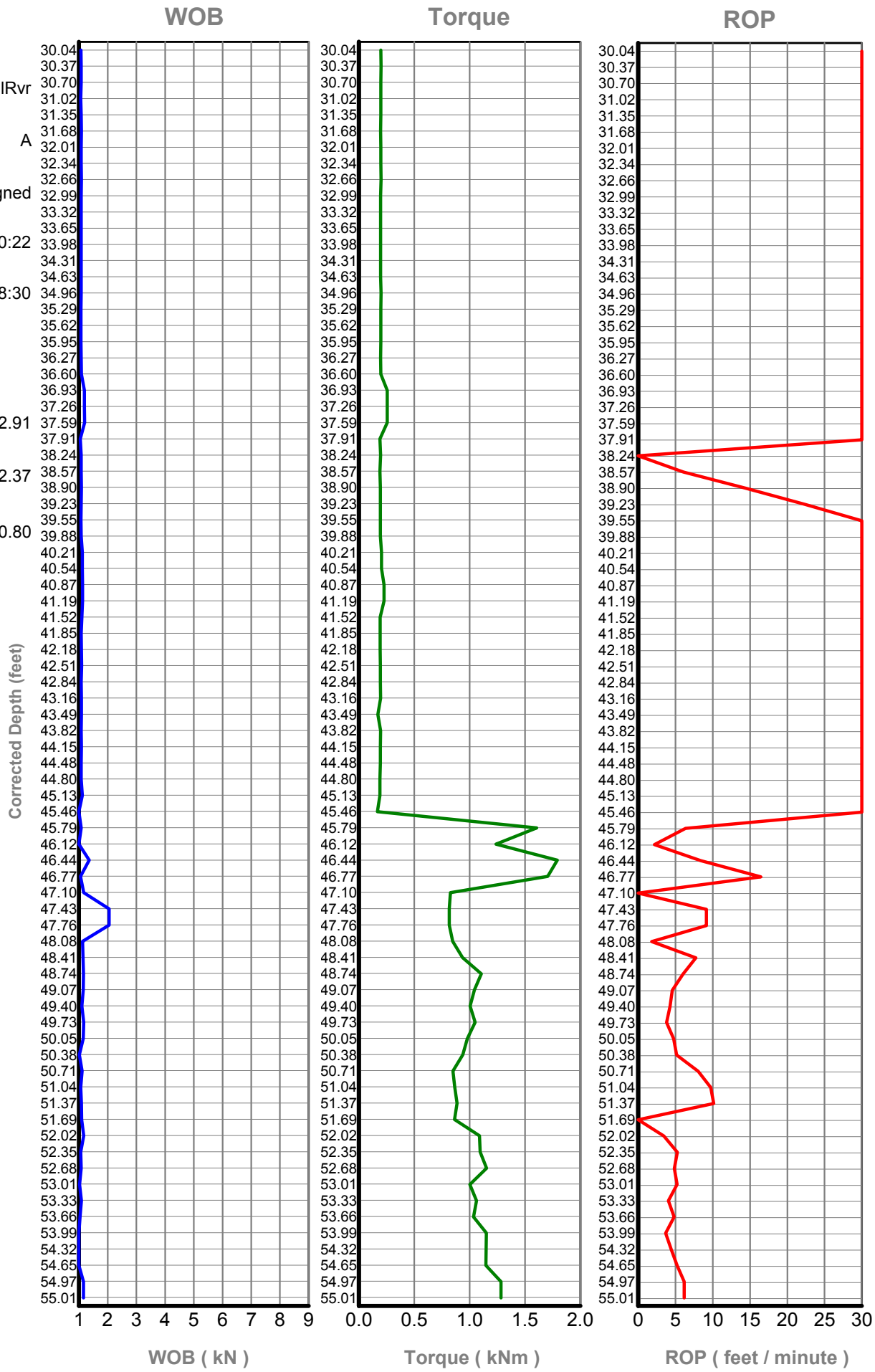
**End Date:**
4/29/2015 4:48:30

**Operator Note:**
'0.8 .8 b Auto Complete'

**Northing:**
364,362.91

**Easting:**
247,542.37

**Tide (feet):**
0.80



## Hole: I10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:57:01 | 30.84 | 30.14 | 720 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 15:57:02 | 31.17 | 30.47 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:57:02 | 31.50 | 30.80 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:57:03 | 31.82 | 31.12 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 15:57:04 | 32.15 | 31.45 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 15:57:04 | 32.48 | 31.78 | 705 | 1.09 | 0.20 | 38.5 |
| 4/27/2015 15:57:05 | 32.81 | 32.11 | 705 | 1.07 | 0.20 | 38.5 |
| 4/27/2015 15:57:05 | 33.14 | 32.44 | 709 | 1.08 | 0.20 | 38.8 |
| 4/27/2015 15:57:06 | 33.46 | 32.76 | 712 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 15:57:06 | 33.79 | 33.09 | 716 | 1.10 | 0.20 | 39.2 |
| 4/27/2015 15:57:07 | 34.12 | 33.42 | 715 | 1.08 | 0.20 | 39.1 |
| 4/27/2015 15:57:07 | 34.45 | 33.75 | 733 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 15:57:08 | 34.78 | 34.08 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 15:57:08 | 35.11 | 34.41 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 15:57:08 | 35.43 | 34.73 | 714 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 15:57:09 | 35.76 | 35.06 | 718 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 15:57:09 | 36.09 | 35.39 | 726 | 1.07 | 0.20 | 39.7 |
| 4/27/2015 15:57:10 | 36.42 | 35.72 | 727 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 15:57:10 | 36.75 | 36.05 | 708 | 1.08 | 0.20 | 38.7 |
| 4/27/2015 15:57:11 | 37.07 | 36.37 | 728 | 1.08 | 0.20 | 39.8 |
| 4/27/2015 15:57:11 | 37.40 | 36.70 | 727 | 1.10 | 0.20 | 39.8 |
| 4/27/2015 15:57:12 | 37.73 | 37.03 | 727 | 1.10 | 0.20 | 39.8 |
| 4/27/2015 15:57:12 | 38.06 | 37.36 | 730 | 1.09 | 0.20 | 39.9 |
| 4/27/2015 15:57:13 | 38.39 | 37.69 | 718 | 1.08 | 0.20 | 39.2 |
| 4/27/2015 15:57:13 | 38.71 | 38.01 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 15:57:14 | 39.04 | 38.34 | 726 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 15:57:15 | 39.37 | 38.67 | 733 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 15:57:15 | 39.70 | 39.00 | 721 | 1.10 | 0.20 | 39.4 |
| 4/27/2015 15:57:16 | 40.03 | 39.33 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 15:57:16 | 40.35 | 39.65 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 15:57:17 | 40.68 | 39.98 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 15:57:17 | 41.01 | 40.31 | 738 | 1.09 | 0.20 | 40.4 |
| 4/27/2015 15:57:17 | 41.34 | 40.64 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:57:18 | 41.67 | 40.97 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 15:57:18 | 41.99 | 41.29 | 727 | 1.10 | 0.20 | 39.8 |
| 4/27/2015 15:57:19 | 42.32 | 41.62 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:57:19 | 42.65 | 41.95 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 15:57:20 | 42.98 | 42.28 | 718 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 15:57:20 | 43.31 | 42.61 | 731 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 15:57:21 | 43.64 | 42.94 | 711 | 1.08 | 0.20 | 38.9 |
| 4/27/2015 15:57:21 | 43.96 | 43.26 | 711 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 15:57:22 | 44.29 | 43.59 | 713 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 15:57:22 | 44.62 | 43.92 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 15:57:23 | 44.95 | 44.25 | 729 | 1.12 | 0.20 | 39.8 |
| 4/27/2015 15:57:31 | 45.28 | 44.58 | 0 | 1.07 | 1.14 | 0.0 |
| 4/27/2015 15:57:39 | 45.60 | 44.90 | 12 | 1.11 | 1.09 | 0.6 |
| 4/27/2015 15:57:40 | 45.93 | 45.23 | 143 | 1.07 | 0.96 | 7.8 |
| 4/27/2015 15:57:41 | 46.26 | 45.56 | 252 | 1.13 | 1.12 | 13.8 |
| 4/27/2015 15:57:42 | 46.59 | 45.89 | 259 | 1.09 | 1.10 | 14.2 |
| 4/27/2015 15:57:44 | 46.92 | 46.22 | 300 | 1.15 | 1.08 | 16.4 |
| 4/27/2015 15:57:47 | 47.24 | 46.54 | 134 | 1.04 | 1.14 | 7.3 |
| 4/27/2015 15:57:50 | 47.57 | 46.87 | 128 | 1.08 | 1.13 | 7.0 |
| 4/27/2015 15:57:52 | 47.90 | 47.20 | 133 | 1.07 | 1.02 | 7.3 |
| 4/27/2015 15:57:56 | 48.23 | 47.53 | 90 | 1.09 | 1.09 | 4.9 |
| 4/27/2015 15:57:59 | 48.56 | 47.86 | 121 | 1.08 | 1.26 | 6.6 |
| 4/27/2015 15:58:02 | 48.88 | 48.18 | 107 | 1.04 | 1.31 | 5.8 |
| 4/27/2015 15:58:05 | 49.21 | 48.51 | 118 | 1.07 | 1.32 | 6.4 |
| 4/27/2015 15:58:09 | 49.54 | 48.84 | 104 | 1.03 | 1.39 | 5.7 |
| 4/27/2015 15:58:13 | 49.87 | 49.17 | 95 | 1.05 | 1.34 | 5.2 |
| 4/27/2015 15:58:17 | 50.20 | 49.50 | 80 | 1.13 | 1.23 | 4.4 |
| 4/27/2015 15:58:22 | 50.53 | 49.83 | 75 | 1.01 | 1.08 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:58:26 | 50.85 | 50.15 | 78 | 1.05 | 1.12 | 4.3 |
| 4/27/2015 | 15:58:31 | 51.18 | 50.48 | 81 | 1.07 | 1.21 | 4.4 |
| 4/27/2015 | 15:58:34 | 51.51 | 50.81 | 114 | 1.02 | 1.24 | 6.2 |
| 4/27/2015 | 15:58:37 | 51.84 | 51.14 | 110 | 1.01 | 1.36 | 6.0 |
| 4/27/2015 | 15:58:41 | 52.17 | 51.47 | 101 | 1.08 | 1.30 | 5.5 |
| 4/27/2015 | 15:58:44 | 52.49 | 51.79 | 116 | 1.09 | 1.23 | 6.3 |
| 4/27/2015 | 15:58:46 | 52.82 | 52.12 | 145 | 1.09 | 1.19 | 7.9 |
| 4/27/2015 | 15:58:51 | 53.15 | 52.45 | 95 | 1.07 | 1.27 | 5.2 |
| 4/27/2015 | 15:58:55 | 53.48 | 52.78 | 87 | 1.05 | 1.33 | 4.7 |
| 4/27/2015 | 15:58:58 | 53.81 | 53.11 | 95 | 0.98 | 1.13 | 5.2 |
| 4/27/2015 | 15:59:03 | 54.13 | 53.43 | 75 | 1.10 | 1.12 | 4.1 |
| 4/27/2015 | 15:59:07 | 54.46 | 53.76 | 84 | 1.09 | 1.28 | 4.6 |
| 4/27/2015 | 15:59:11 | 54.79 | 54.09 | 93 | 1.09 | 1.33 | 5.1 |
| 4/27/2015 | 15:59:15 | 55.12 | 54.42 | 86 | 1.02 | 1.18 | 4.7 |
| 4/27/2015 | 15:59:18 | 55.45 | 54.75 | 95 | 1.05 | 1.23 | 5.2 |
| 4/27/2015 | 15:59:21 | 55.59 | 54.89 | 99 | 0.53 | 1.00 | 5.4 |

## I10 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:55:31

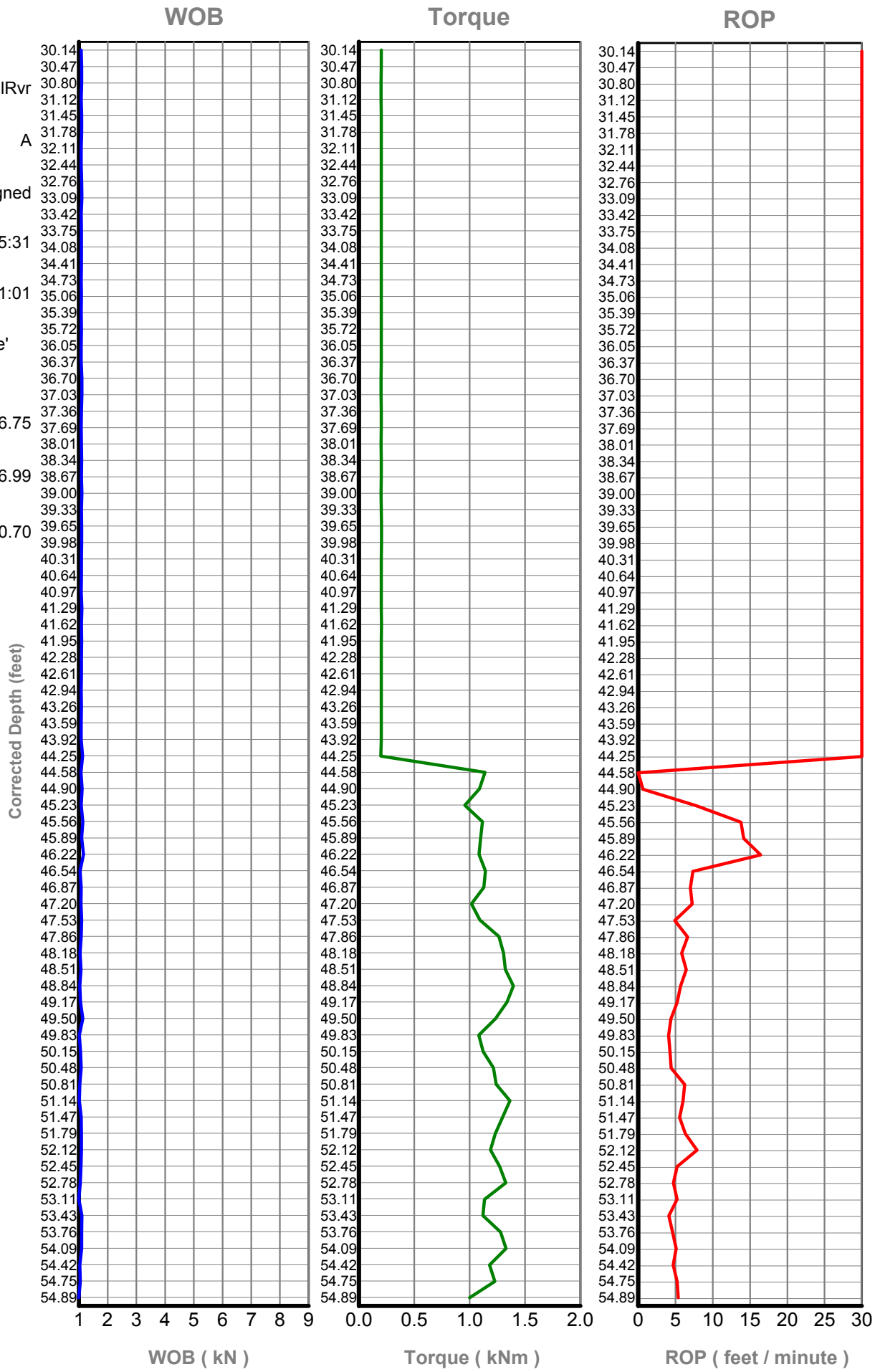
**End Date:**
4/27/2015 16:01:01

**Operator Note:**
'0.7 0.6 a Auto Complete'

**Northing:**
364,786.75

**Easting:**
248,076.99

**Tide (feet):**
0.70



## Hole: I100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:32:58 | 35.43 | 30.03 | 754 | 1.07 | 0.76 | 41.3 |
| 4/27/2015 21:32:59 | 35.76 | 30.36 | 752 | 1.08 | 0.77 | 41.1 |
| 4/27/2015 21:32:59 | 36.09 | 30.69 | 752 | 1.09 | 0.77 | 41.1 |
| 4/27/2015 21:33:00 | 36.42 | 31.02 | 752 | 1.08 | 0.77 | 41.1 |
| 4/27/2015 21:33:00 | 36.75 | 31.35 | 752 | 1.09 | 0.77 | 41.1 |
| 4/27/2015 21:33:01 | 37.07 | 31.67 | 743 | 1.09 | 0.77 | 40.6 |
| 4/27/2015 21:33:01 | 37.40 | 32.00 | 752 | 1.08 | 0.77 | 41.1 |
| 4/27/2015 21:33:02 | 37.73 | 32.33 | 752 | 1.08 | 0.77 | 41.1 |
| 4/27/2015 21:33:02 | 38.06 | 32.66 | 752 | 1.07 | 0.77 | 41.1 |
| 4/27/2015 21:33:02 | 38.39 | 32.99 | 748 | 1.06 | 0.77 | 40.9 |
| 4/27/2015 21:33:03 | 38.71 | 33.31 | 755 | 1.07 | 0.77 | 41.3 |
| 4/27/2015 21:33:04 | 39.04 | 33.64 | 764 | 1.09 | 0.77 | 41.8 |
| 4/27/2015 21:33:04 | 39.37 | 33.97 | 755 | 1.12 | 0.77 | 41.3 |
| 4/27/2015 21:33:05 | 39.70 | 34.30 | 750 | 1.08 | 0.77 | 41.0 |
| 4/27/2015 21:33:05 | 40.03 | 34.63 | 762 | 1.09 | 0.77 | 41.7 |
| 4/27/2015 21:33:06 | 40.35 | 34.95 | 755 | 1.09 | 0.77 | 41.3 |
| 4/27/2015 21:33:06 | 40.68 | 35.28 | 746 | 1.08 | 0.77 | 40.8 |
| 4/27/2015 21:33:07 | 41.01 | 35.61 | 755 | 1.08 | 0.77 | 41.3 |
| 4/27/2015 21:33:07 | 41.34 | 35.94 | 755 | 1.08 | 0.77 | 41.3 |
| 4/27/2015 21:33:07 | 41.67 | 36.27 | 755 | 1.09 | 0.77 | 41.3 |
| 4/27/2015 21:33:08 | 41.99 | 36.59 | 752 | 1.09 | 0.77 | 41.1 |
| 4/27/2015 21:33:08 | 42.32 | 36.92 | 749 | 1.08 | 0.77 | 41.0 |
| 4/27/2015 21:33:09 | 42.65 | 37.25 | 754 | 1.07 | 0.77 | 41.2 |
| 4/27/2015 21:33:09 | 42.98 | 37.58 | 755 | 1.08 | 0.76 | 41.3 |
| 4/27/2015 21:33:10 | 43.31 | 37.91 | 755 | 1.07 | 0.77 | 41.3 |
| 4/27/2015 21:33:10 | 43.64 | 38.24 | 755 | 1.07 | 0.76 | 41.3 |
| 4/27/2015 21:33:11 | 43.96 | 38.56 | 757 | 1.09 | 0.77 | 41.4 |
| 4/27/2015 21:33:11 | 44.29 | 38.89 | 760 | 1.09 | 0.76 | 41.6 |
| 4/27/2015 21:33:12 | 44.62 | 39.22 | 751 | 1.07 | 0.76 | 41.1 |
| 4/27/2015 21:33:12 | 44.95 | 39.55 | 751 | 1.07 | 0.76 | 41.1 |
| 4/27/2015 21:33:12 | 45.28 | 39.88 | 751 | 1.10 | 0.76 | 41.1 |
| 4/27/2015 21:33:13 | 45.60 | 40.20 | 747 | 1.08 | 0.77 | 40.9 |
| 4/27/2015 21:33:14 | 45.93 | 40.53 | 724 | 1.10 | 0.76 | 39.6 |
| 4/27/2015 21:33:14 | 46.26 | 40.86 | 724 | 1.11 | 0.77 | 39.6 |
| 4/27/2015 21:33:15 | 46.59 | 41.19 | 733 | 1.09 | 0.77 | 40.1 |
| 4/27/2015 21:33:15 | 46.92 | 41.52 | 694 | 1.09 | 0.77 | 37.9 |
| 4/27/2015 21:33:16 | 47.24 | 41.84 | 694 | 1.09 | 0.77 | 37.9 |
| 4/27/2015 21:33:16 | 47.57 | 42.17 | 734 | 1.07 | 0.77 | 40.1 |
| 4/27/2015 21:33:17 | 47.90 | 42.50 | 731 | 1.07 | 0.77 | 40.0 |
| 4/27/2015 21:33:17 | 48.23 | 42.83 | 754 | 1.01 | 0.76 | 41.2 |
| 4/27/2015 21:33:18 | 48.56 | 43.16 | 746 | 1.08 | 0.76 | 40.8 |
| 4/27/2015 21:33:18 | 48.88 | 43.48 | 782 | 1.07 | 0.77 | 42.7 |
| 4/27/2015 21:33:19 | 49.21 | 43.81 | 782 | 1.07 | 0.77 | 42.7 |
| 4/27/2015 21:35:23 | 49.54 | 44.14 | 14 | 1.16 | 1.17 | 0.8 |
| 4/27/2015 21:35:29 | 49.87 | 44.47 | 45 | 1.09 | 1.30 | 2.5 |
| 4/27/2015 21:35:30 | 50.20 | 44.80 | 125 | 1.11 | 1.23 | 6.8 |
| 4/27/2015 21:35:42 | 50.53 | 45.13 | 49 | 1.15 | 1.35 | 2.7 |
| 4/27/2015 21:35:57 | 50.85 | 45.45 | 78 | 1.01 | 1.13 | 4.3 |
| 4/27/2015 21:35:58 | 51.18 | 45.78 | 130 | 1.14 | 1.51 | 7.1 |
| 4/27/2015 21:36:44 | 51.51 | 46.11 | 14 | 1.07 | 1.61 | 0.8 |
| 4/27/2015 21:36:50 | 51.84 | 46.44 | 35 | 1.07 | 1.15 | 1.9 |
| 4/27/2015 21:36:51 | 52.17 | 46.77 | 125 | 1.04 | 1.18 | 6.8 |
| 4/27/2015 21:36:54 | 52.49 | 47.09 | 180 | 1.11 | 1.51 | 9.8 |
| 4/27/2015 21:36:57 | 52.82 | 47.42 | 102 | 1.18 | 1.27 | 5.6 |
| 4/27/2015 21:37:05 | 53.15 | 47.75 | 37 | 1.07 | 1.07 | 2.0 |
| 4/27/2015 21:37:07 | 53.48 | 48.08 | 148 | 1.11 | 1.16 | 8.1 |
| 4/27/2015 21:37:11 | 53.81 | 48.41 | 90 | 1.05 | 1.28 | 4.9 |
| 4/27/2015 21:37:18 | 54.13 | 48.73 | 48 | 1.06 | 0.96 | 2.6 |
| 4/27/2015 21:37:25 | 54.46 | 49.06 | 52 | 1.12 | 1.02 | 2.8 |
| 4/27/2015 21:37:31 | 54.79 | 49.39 | 47 | 1.07 | 0.98 | 2.6 |
| 4/27/2015 21:37:39 | 55.12 | 49.72 | 49 | 1.13 | 1.04 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:37:40 | 55.45 | 50.05 | 108 | 1.00 | 1.24 | 5.9 |
| 4/27/2015 | 21:37:43 | 55.77 | 50.37 | 127 | 1.00 | 1.05 | 7.0 |
| 4/27/2015 | 21:37:46 | 56.10 | 50.70 | 162 | 0.98 | 1.23 | 8.9 |
| 4/27/2015 | 21:37:51 | 56.43 | 51.03 | 63 | 1.05 | 1.02 | 3.4 |
| 4/27/2015 | 21:37:59 | 56.76 | 51.36 | 41 | 1.03 | 0.97 | 2.2 |
| 4/27/2015 | 21:38:08 | 57.09 | 51.69 | 43 | 1.01 | 0.92 | 2.4 |
| 4/27/2015 | 21:38:17 | 57.41 | 52.01 | 42 | 0.98 | 0.90 | 2.3 |
| 4/27/2015 | 21:38:23 | 57.63 | 52.23 | 38 | 1.27 | 1.00 | 2.1 |

## I100 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:27:40

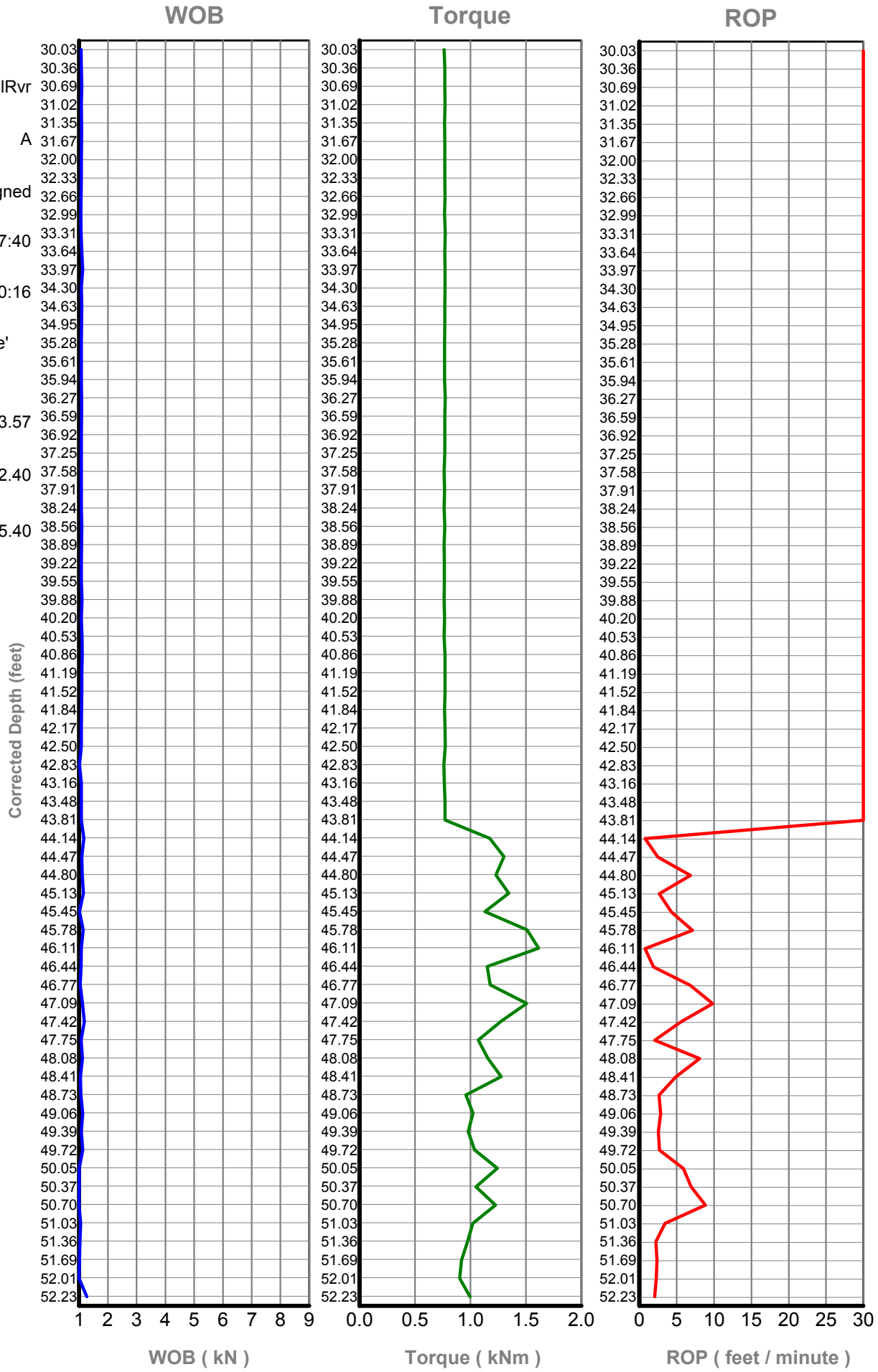
**End Date:**
4/27/2015 21:40:16

**Operator Note:**
'5.4 5.6 b Auto Complete'

**Northing:**
364,173.57

**Easting:**
248,272.40

**Tide (feet):**
5.40



## Hole: I101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:30:45 | 35.43 | 30.03 | 1,015 | 0.34 | 0.33 | 55.5 |
| 4/27/2015 21:30:45 | 35.76 | 30.36 | 1,009 | 0.33 | 0.33 | 55.2 |
| 4/27/2015 21:30:46 | 36.09 | 30.69 | 1,012 | 0.35 | 0.34 | 55.3 |
| 4/27/2015 21:30:46 | 36.42 | 31.02 | 979 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 21:30:46 | 36.75 | 31.35 | 979 | 0.35 | 0.33 | 53.6 |
| 4/27/2015 21:30:47 | 37.07 | 31.67 | 979 | 0.34 | 0.34 | 53.6 |
| 4/27/2015 21:30:47 | 37.40 | 32.00 | 994 | 0.35 | 0.34 | 54.3 |
| 4/27/2015 21:30:48 | 37.73 | 32.33 | 994 | 0.35 | 0.34 | 54.3 |
| 4/27/2015 21:30:48 | 38.06 | 32.66 | 997 | 0.35 | 0.33 | 54.5 |
| 4/27/2015 21:30:48 | 38.39 | 32.99 | 1,002 | 0.34 | 0.33 | 54.8 |
| 4/27/2015 21:30:49 | 38.71 | 33.31 | 1,002 | 0.34 | 0.33 | 54.8 |
| 4/27/2015 21:30:49 | 39.04 | 33.64 | 1,005 | 0.34 | 0.33 | 55.0 |
| 4/27/2015 21:30:49 | 39.37 | 33.97 | 1,029 | 0.34 | 0.33 | 56.3 |
| 4/27/2015 21:30:50 | 39.70 | 34.30 | 1,029 | 0.34 | 0.33 | 56.3 |
| 4/27/2015 21:30:50 | 40.03 | 34.63 | 1,012 | 0.34 | 0.33 | 55.3 |
| 4/27/2015 21:30:50 | 40.35 | 34.95 | 1,012 | 0.34 | 0.34 | 55.4 |
| 4/27/2015 21:30:51 | 40.68 | 35.28 | 1,012 | 0.34 | 0.34 | 55.4 |
| 4/27/2015 21:30:51 | 41.01 | 35.61 | 1,018 | 0.35 | 0.34 | 55.7 |
| 4/27/2015 21:30:51 | 41.34 | 35.94 | 1,004 | 0.34 | 0.34 | 54.9 |
| 4/27/2015 21:30:52 | 41.67 | 36.27 | 1,004 | 0.34 | 0.34 | 54.9 |
| 4/27/2015 21:30:52 | 41.99 | 36.59 | 1,013 | 0.34 | 0.33 | 55.4 |
| 4/27/2015 21:30:52 | 42.32 | 36.92 | 1,019 | 0.34 | 0.33 | 55.7 |
| 4/27/2015 21:30:53 | 42.65 | 37.25 | 1,019 | 0.34 | 0.33 | 55.7 |
| 4/27/2015 21:30:53 | 42.98 | 37.58 | 1,006 | 0.34 | 0.33 | 55.0 |
| 4/27/2015 21:30:53 | 43.31 | 37.91 | 984 | 0.34 | 0.33 | 53.8 |
| 4/27/2015 21:30:54 | 43.64 | 38.24 | 984 | 0.34 | 0.33 | 53.8 |
| 4/27/2015 21:30:54 | 43.96 | 38.56 | 984 | 0.35 | 0.34 | 53.8 |
| 4/27/2015 21:30:54 | 44.29 | 38.89 | 1,004 | 0.34 | 0.33 | 54.9 |
| 4/27/2015 21:30:55 | 44.62 | 39.22 | 998 | 0.34 | 0.34 | 54.6 |
| 4/27/2015 21:30:56 | 44.95 | 39.55 | 998 | 0.34 | 0.34 | 54.6 |
| 4/27/2015 21:30:55 | 45.28 | 39.88 | 968 | 0.34 | 0.33 | 53.0 |
| 4/27/2015 21:30:56 | 45.60 | 40.20 | 968 | 0.34 | 0.33 | 53.0 |
| 4/27/2015 21:30:56 | 45.93 | 40.53 | 968 | 0.34 | 0.33 | 53.0 |
| 4/27/2015 21:30:57 | 46.26 | 40.86 | 984 | 0.34 | 0.34 | 53.8 |
| 4/27/2015 21:30:57 | 46.59 | 41.19 | 997 | 0.34 | 0.33 | 54.5 |
| 4/27/2015 21:30:58 | 46.92 | 41.52 | 997 | 0.34 | 0.33 | 54.5 |
| 4/27/2015 21:30:58 | 47.24 | 41.84 | 984 | 0.34 | 0.34 | 53.8 |
| 4/27/2015 21:30:58 | 47.57 | 42.17 | 984 | 0.35 | 0.33 | 53.8 |
| 4/27/2015 21:30:59 | 47.90 | 42.50 | 984 | 0.35 | 0.33 | 53.8 |
| 4/27/2015 21:30:59 | 48.23 | 42.83 | 1,007 | 0.34 | 0.34 | 55.1 |
| 4/27/2015 21:30:59 | 48.56 | 43.16 | 994 | 0.34 | 0.33 | 54.4 |
| 4/27/2015 21:31:00 | 48.88 | 43.48 | 994 | 0.34 | 0.33 | 54.4 |
| 4/27/2015 21:31:00 | 49.21 | 43.81 | 994 | 0.35 | 0.34 | 54.4 |
| 4/27/2015 21:31:00 | 49.54 | 44.14 | 991 | 0.32 | 0.37 | 54.2 |
| 4/27/2015 21:31:05 | 49.87 | 44.47 | 95 | 4.27 | 0.39 | 5.2 |
| 4/27/2015 21:31:11 | 50.20 | 44.80 | 0 | 6.14 | 0.40 | 0.0 |
| 4/27/2015 21:31:20 | 50.53 | 45.13 | 35 | 5.68 | 0.39 | 1.9 |
| 4/27/2015 21:31:20 | 50.85 | 45.45 | 104 | 3.97 | 0.38 | 5.7 |
| 4/27/2015 21:31:21 | 51.18 | 45.78 | 280 | 4.00 | 0.37 | 15.3 |
| 4/27/2015 21:31:22 | 51.51 | 46.11 | 370 | 3.69 | 0.37 | 20.2 |
| 4/27/2015 21:31:23 | 51.84 | 46.44 | 435 | 3.35 | 0.38 | 23.8 |
| 4/27/2015 21:31:23 | 52.17 | 46.77 | 435 | 3.69 | 0.38 | 23.8 |
| 4/27/2015 21:31:24 | 52.49 | 47.09 | 471 | 3.38 | 0.38 | 25.8 |
| 4/27/2015 21:31:25 | 52.82 | 47.42 | 449 | 5.00 | 0.39 | 24.6 |
| 4/27/2015 21:31:26 | 53.15 | 47.75 | 372 | 4.87 | 0.38 | 20.3 |
| 4/27/2015 21:31:27 | 53.48 | 48.08 | 363 | 6.26 | 0.39 | 19.9 |
| 4/27/2015 21:31:28 | 53.81 | 48.41 | 361 | 5.21 | 0.39 | 19.7 |
| 4/27/2015 21:31:29 | 54.13 | 48.73 | 355 | 5.63 | 0.40 | 19.4 |
| 4/27/2015 21:31:31 | 54.46 | 49.06 | 298 | 4.80 | 0.39 | 16.3 |
| 4/27/2015 21:31:33 | 54.79 | 49.39 | 213 | 6.35 | 0.39 | 11.6 |
| 4/27/2015 21:31:34 | 55.12 | 49.72 | 223 | 4.09 | 0.39 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:31:34 | 55.45 | 50.05 | 237 | 3.91 | 0.38 | 13.0 |
| 4/27/2015 | 21:31:35 | 55.77 | 50.37 | 272 | 3.23 | 0.38 | 14.9 |
| 4/27/2015 | 21:31:36 | 56.10 | 50.70 | 272 | 2.76 | 0.37 | 14.9 |
| 4/27/2015 | 21:31:37 | 56.43 | 51.03 | 375 | 4.45 | 0.41 | 20.5 |
| 4/27/2015 | 21:31:41 | 56.76 | 51.36 | 14 | 3.54 | 0.39 | 0.8 |
| 4/27/2015 | 21:31:42 | 57.09 | 51.69 | 70 | 3.28 | 0.38 | 3.8 |
| 4/27/2015 | 21:31:43 | 57.41 | 52.01 | 196 | 3.64 | 0.40 | 10.7 |
| 4/27/2015 | 21:31:44 | 57.74 | 52.34 | 316 | 3.81 | 0.39 | 17.3 |
| 4/27/2015 | 21:31:46 | 58.07 | 52.67 | 300 | 3.58 | 0.38 | 16.4 |
| 4/27/2015 | 21:31:46 | 58.40 | 53.00 | 319 | 2.94 | 0.38 | 17.4 |
| 4/27/2015 | 21:31:47 | 58.73 | 53.33 | 344 | 3.21 | 0.39 | 18.8 |
| 4/27/2015 | 21:31:49 | 59.06 | 53.66 | 359 | 2.69 | 0.38 | 19.7 |
| 4/27/2015 | 21:31:49 | 59.38 | 53.98 | 401 | 2.76 | 0.37 | 22.0 |
| 4/27/2015 | 21:31:51 | 59.71 | 54.31 | 391 | 4.40 | 0.40 | 21.4 |
| 4/27/2015 | 21:31:56 | 60.04 | 54.64 | 58 | 6.69 | 0.41 | 3.2 |
| 4/27/2015 | 21:32:44 | 60.37 | 54.97 | 58 | 3.35 | 0.40 | 3.2 |
| 4/27/2015 | 21:32:48 | 60.55 | 55.15 | 52 | 3.48 | 0.41 | 2.8 |

## I101 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:29:05

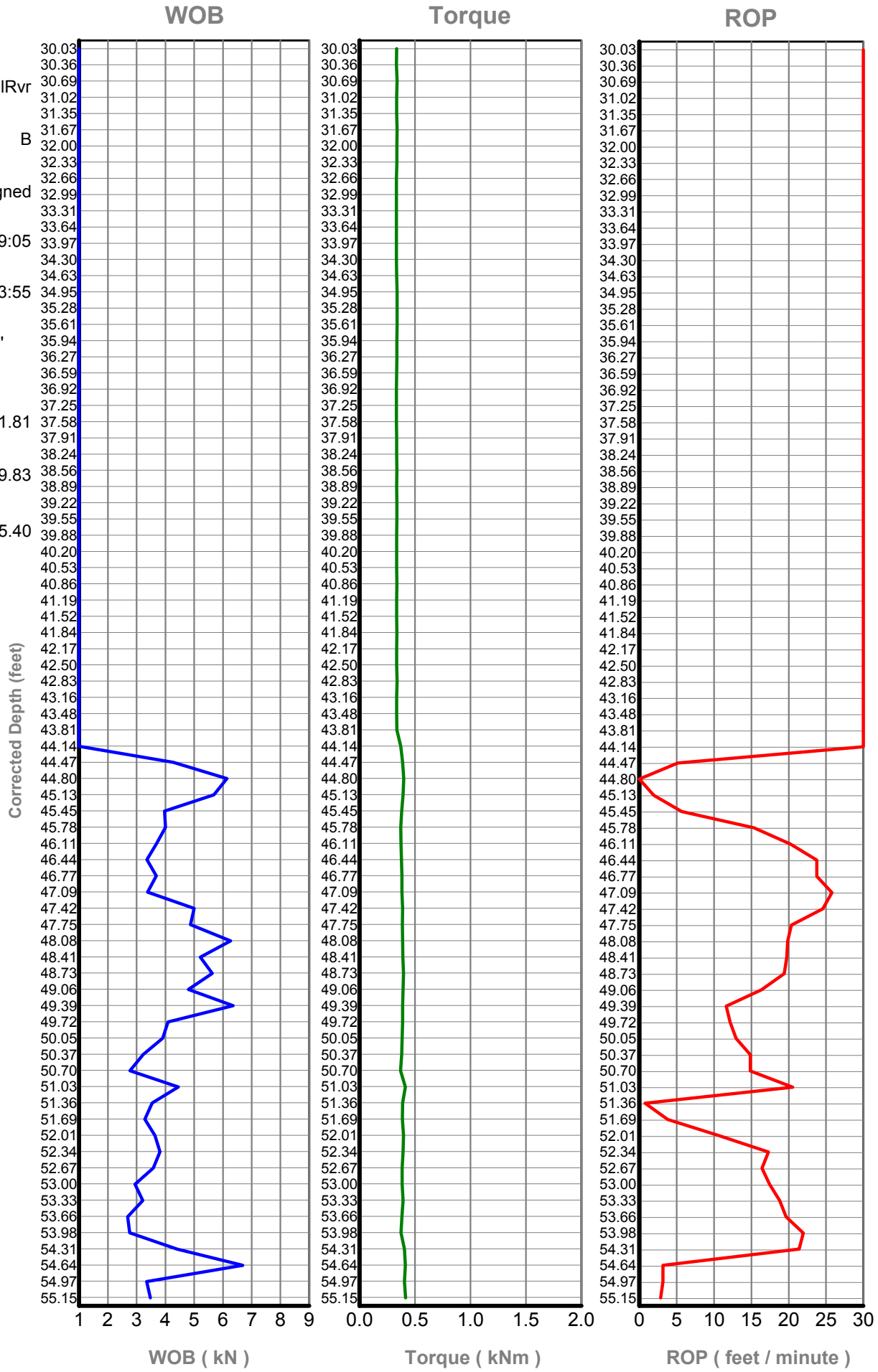
**End Date:**
4/27/2015 21:33:55

**Operator Note:**
'5.4 5.6b Auto Complete'

**Northing:**
364,221.81

**Easting:**
248,329.83

**Tide (feet):**
5.40



## Hole: I102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:31:46 | 35.43 | 30.03 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/27/2015 21:31:46 | 35.76 | 30.36 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/27/2015 21:31:46 | 36.09 | 30.69 | 1,058 | 1.62 | 0.15 | 57.9 |
| 4/27/2015 21:31:47 | 36.42 | 31.02 | 1,052 | 1.62 | 0.15 | 57.5 |
| 4/27/2015 21:31:47 | 36.75 | 31.35 | 1,052 | 1.62 | 0.15 | 57.5 |
| 4/27/2015 21:31:47 | 37.07 | 31.67 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:31:48 | 37.40 | 32.00 | 1,058 | 1.64 | 0.14 | 57.9 |
| 4/27/2015 21:31:49 | 37.73 | 32.33 | 1,058 | 1.64 | 0.14 | 57.9 |
| 4/27/2015 21:31:49 | 38.06 | 32.66 | 1,058 | 1.63 | 0.15 | 57.9 |
| 4/27/2015 21:31:49 | 38.39 | 32.99 | 1,052 | 1.62 | 0.14 | 57.5 |
| 4/27/2015 21:31:50 | 38.71 | 33.31 | 1,052 | 1.62 | 0.14 | 57.5 |
| 4/27/2015 21:31:50 | 39.04 | 33.64 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/27/2015 21:31:50 | 39.37 | 33.97 | 1,046 | 1.62 | 0.15 | 57.2 |
| 4/27/2015 21:31:51 | 39.70 | 34.30 | 1,046 | 1.62 | 0.15 | 57.2 |
| 4/27/2015 21:31:51 | 40.03 | 34.63 | 1,043 | 1.62 | 0.14 | 57.0 |
| 4/27/2015 21:31:51 | 40.35 | 34.95 | 1,043 | 1.62 | 0.14 | 57.0 |
| 4/27/2015 21:31:51 | 40.68 | 35.28 | 1,023 | 1.62 | 0.15 | 56.0 |
| 4/27/2015 21:31:52 | 41.01 | 35.61 | 1,023 | 1.62 | 0.15 | 56.0 |
| 4/27/2015 21:31:52 | 41.34 | 35.94 | 1,023 | 1.62 | 0.15 | 56.0 |
| 4/27/2015 21:31:52 | 41.67 | 36.27 | 1,038 | 1.62 | 0.14 | 56.8 |
| 4/27/2015 21:31:53 | 41.99 | 36.59 | 1,041 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:31:53 | 42.32 | 36.92 | 1,041 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:31:53 | 42.65 | 37.25 | 1,044 | 1.61 | 0.15 | 57.1 |
| 4/27/2015 21:31:54 | 42.98 | 37.58 | 1,045 | 1.62 | 0.14 | 57.1 |
| 4/27/2015 21:31:54 | 43.31 | 37.91 | 1,045 | 1.62 | 0.14 | 57.1 |
| 4/27/2015 21:31:54 | 43.64 | 38.24 | 1,062 | 1.62 | 0.15 | 58.1 |
| 4/27/2015 21:31:55 | 43.96 | 38.56 | 1,052 | 1.60 | 0.15 | 57.5 |
| 4/27/2015 21:31:55 | 44.29 | 38.89 | 1,052 | 1.60 | 0.15 | 57.5 |
| 4/27/2015 21:31:55 | 44.62 | 39.22 | 1,047 | 1.63 | 0.14 | 57.2 |
| 4/27/2015 21:31:56 | 44.95 | 39.55 | 1,044 | 1.61 | 0.15 | 57.1 |
| 4/27/2015 21:31:56 | 45.28 | 39.88 | 1,044 | 1.61 | 0.15 | 57.1 |
| 4/27/2015 21:31:56 | 45.60 | 40.20 | 1,041 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:31:57 | 45.93 | 40.53 | 1,050 | 1.62 | 0.14 | 57.4 |
| 4/27/2015 21:31:57 | 46.26 | 40.86 | 1,050 | 1.62 | 0.14 | 57.4 |
| 4/27/2015 21:31:57 | 46.59 | 41.19 | 1,044 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:31:58 | 46.92 | 41.52 | 1,044 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:31:59 | 47.24 | 41.84 | 1,044 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:31:59 | 47.57 | 42.17 | 1,041 | 1.62 | 0.14 | 56.9 |
| 4/27/2015 21:31:59 | 47.90 | 42.50 | 1,046 | 1.62 | 0.15 | 57.2 |
| 4/27/2015 21:32:00 | 48.23 | 42.83 | 1,046 | 1.62 | 0.15 | 57.2 |
| 4/27/2015 21:32:00 | 48.56 | 43.16 | 1,043 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:32:00 | 48.88 | 43.48 | 1,041 | 1.65 | 0.15 | 56.9 |
| 4/27/2015 21:32:07 | 49.21 | 43.81 | 50 | 1.70 | 1.24 | 2.7 |
| 4/27/2015 21:32:07 | 49.54 | 44.14 | 90 | 1.67 | 1.18 | 4.9 |
| 4/27/2015 21:32:08 | 49.87 | 44.47 | 222 | 1.72 | 1.24 | 12.2 |
| 4/27/2015 21:32:09 | 50.20 | 44.80 | 457 | 1.53 | 1.34 | 25.0 |
| 4/27/2015 21:32:17 | 50.53 | 45.13 | 26 | 1.66 | 1.36 | 1.4 |
| 4/27/2015 21:32:18 | 50.85 | 45.45 | 228 | 1.64 | 1.39 | 12.5 |
| 4/27/2015 21:32:19 | 51.18 | 45.78 | 391 | 1.68 | 1.44 | 21.4 |
| 4/27/2015 21:32:20 | 51.51 | 46.11 | 376 | 1.68 | 1.34 | 20.6 |
| 4/27/2015 21:32:21 | 51.84 | 46.44 | 356 | 1.70 | 1.30 | 19.5 |
| 4/27/2015 21:32:22 | 52.17 | 46.77 | 359 | 1.68 | 1.25 | 19.6 |
| 4/27/2015 21:32:23 | 52.49 | 47.09 | 379 | 1.68 | 1.37 | 20.7 |
| 4/27/2015 21:32:24 | 52.82 | 47.42 | 384 | 1.66 | 1.21 | 21.0 |
| 4/27/2015 21:32:24 | 53.15 | 47.75 | 410 | 1.70 | 1.21 | 22.4 |
| 4/27/2015 21:32:34 | 53.48 | 48.08 | 32 | 1.68 | 1.42 | 1.7 |
| 4/27/2015 21:32:35 | 53.81 | 48.41 | 171 | 1.67 | 1.18 | 9.4 |
| 4/27/2015 21:32:36 | 54.13 | 48.73 | 241 | 1.67 | 1.26 | 13.2 |
| 4/27/2015 21:32:42 | 54.46 | 49.06 | 58 | 1.65 | 1.17 | 3.2 |
| 4/27/2015 21:32:47 | 54.79 | 49.39 | 64 | 1.66 | 1.19 | 3.5 |
| 4/27/2015 21:32:53 | 55.12 | 49.72 | 73 | 1.68 | 1.26 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:32:56 | 55.45 | 50.05 | 96 | 1.68 | 1.27 | 5.3 |
| 4/27/2015 | 21:33:02 | 55.77 | 50.37 | 64 | 1.68 | 1.23 | 3.5 |
| 4/27/2015 | 21:33:07 | 56.10 | 50.70 | 65 | 1.68 | 1.26 | 3.5 |
| 4/27/2015 | 21:33:11 | 56.43 | 51.03 | 97 | 1.68 | 1.37 | 5.3 |
| 4/27/2015 | 21:33:15 | 56.76 | 51.36 | 81 | 1.67 | 1.24 | 4.4 |
| 4/27/2015 | 21:33:19 | 57.09 | 51.69 | 93 | 1.68 | 1.25 | 5.1 |
| 4/27/2015 | 21:33:24 | 57.41 | 52.01 | 75 | 1.66 | 1.22 | 4.1 |
| 4/27/2015 | 21:33:28 | 57.74 | 52.34 | 111 | 1.69 | 1.21 | 6.1 |
| 4/27/2015 | 21:33:32 | 58.07 | 52.67 | 101 | 1.69 | 1.32 | 5.5 |
| 4/27/2015 | 21:33:35 | 58.40 | 53.00 | 89 | 1.68 | 1.31 | 4.9 |
| 4/27/2015 | 21:33:40 | 58.73 | 53.33 | 69 | 1.64 | 1.17 | 3.8 |
| 4/27/2015 | 21:33:46 | 59.06 | 53.66 | 65 | 1.66 | 1.21 | 3.5 |
| 4/27/2015 | 21:33:51 | 59.38 | 53.98 | 58 | 1.74 | 1.25 | 3.2 |
| 4/27/2015 | 21:33:57 | 59.71 | 54.31 | 64 | 1.70 | 1.32 | 3.5 |
| 4/27/2015 | 21:34:02 | 60.04 | 54.64 | 73 | 1.68 | 1.29 | 4.0 |
| 4/27/2015 | 21:34:07 | 60.34 | 54.94 | 60 | 1.69 | 1.29 | 3.3 |

## I102 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:30:23

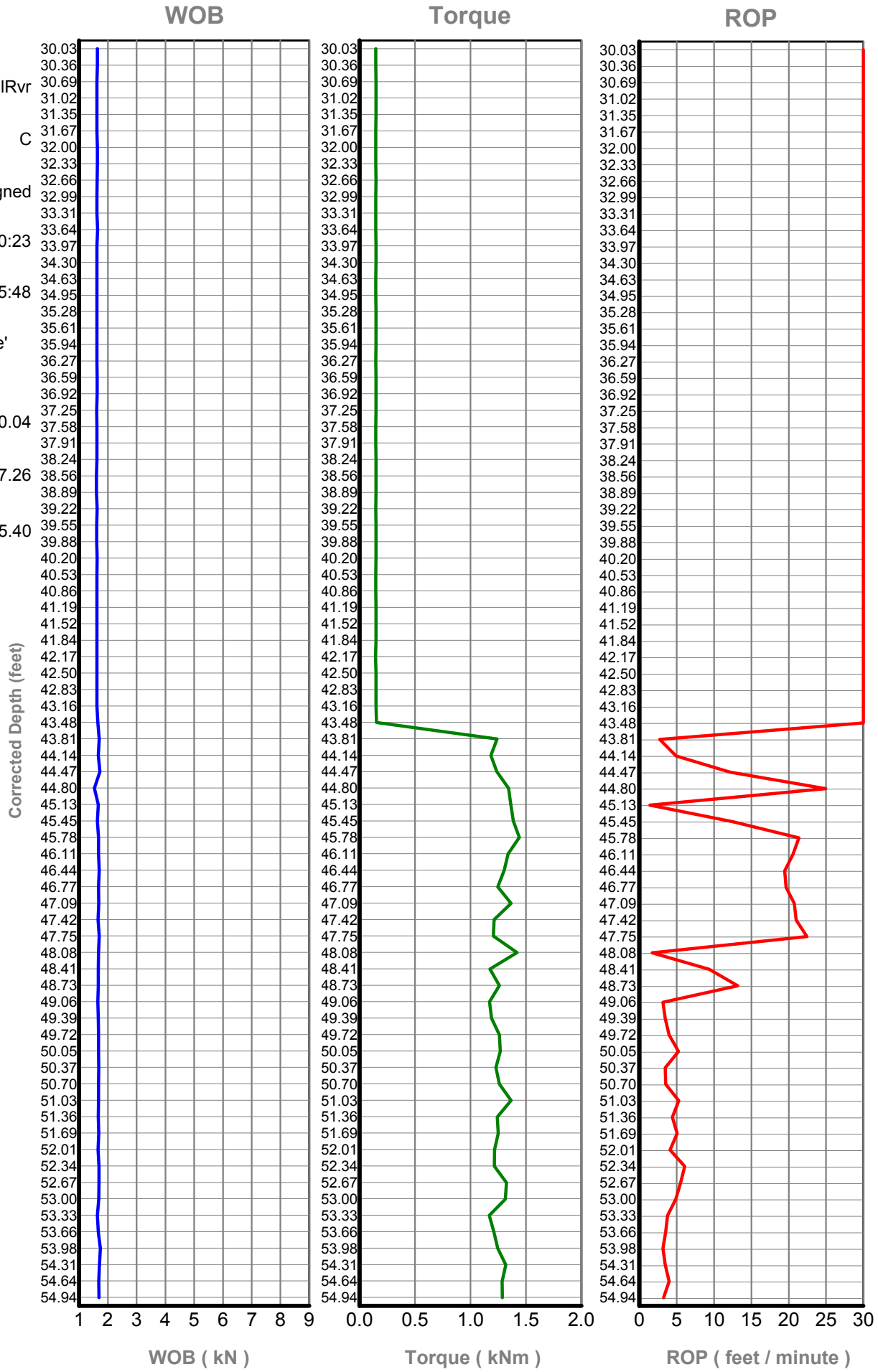
**End Date:**
4/27/2015 21:35:48

**Operator Note:**
'5.4 5.6 c Auto Complete'

**Northing:**
364,270.04

**Easting:**
248,387.26

**Tide (feet):**
5.40



## Hole: I103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:06:03 | 33.79 | 30.29 | 744 | 1.06 | 0.19 | 40.7 |
| 4/27/2015 18:06:03 | 34.12 | 30.62 | 744 | 1.04 | 0.19 | 40.7 |
| 4/27/2015 18:06:04 | 34.45 | 30.95 | 751 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 18:06:04 | 34.78 | 31.28 | 746 | 1.05 | 0.19 | 40.8 |
| 4/27/2015 18:06:05 | 35.11 | 31.61 | 749 | 1.05 | 0.19 | 40.9 |
| 4/27/2015 18:06:05 | 35.43 | 31.93 | 749 | 1.05 | 0.19 | 40.9 |
| 4/27/2015 18:06:05 | 35.76 | 32.26 | 744 | 1.05 | 0.19 | 40.7 |
| 4/27/2015 18:06:06 | 36.09 | 32.59 | 752 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 18:06:06 | 36.42 | 32.92 | 752 | 1.07 | 0.19 | 41.1 |
| 4/27/2015 18:06:07 | 36.75 | 33.25 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 18:06:07 | 37.07 | 33.57 | 749 | 1.05 | 0.19 | 40.9 |
| 4/27/2015 18:06:08 | 37.40 | 33.90 | 756 | 1.04 | 0.19 | 41.3 |
| 4/27/2015 18:06:08 | 37.73 | 34.23 | 752 | 1.05 | 0.19 | 41.1 |
| 4/27/2015 18:06:09 | 38.06 | 34.56 | 756 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 18:06:10 | 38.39 | 34.89 | 755 | 1.07 | 0.19 | 41.3 |
| 4/27/2015 18:06:10 | 38.71 | 35.21 | 757 | 1.06 | 0.19 | 41.4 |
| 4/27/2015 18:06:11 | 39.04 | 35.54 | 757 | 1.06 | 0.19 | 41.4 |
| 4/27/2015 18:06:11 | 39.37 | 35.87 | 757 | 1.06 | 0.19 | 41.4 |
| 4/27/2015 18:06:11 | 39.70 | 36.20 | 755 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 18:06:12 | 40.03 | 36.53 | 747 | 1.06 | 0.19 | 40.9 |
| 4/27/2015 18:06:12 | 40.35 | 36.85 | 752 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 18:06:13 | 40.68 | 37.18 | 743 | 1.05 | 0.19 | 40.6 |
| 4/27/2015 18:06:13 | 41.01 | 37.51 | 737 | 1.05 | 0.19 | 40.3 |
| 4/27/2015 18:06:14 | 41.34 | 37.84 | 737 | 1.06 | 0.19 | 40.3 |
| 4/27/2015 18:06:14 | 41.67 | 38.17 | 740 | 1.05 | 0.19 | 40.5 |
| 4/27/2015 18:06:15 | 41.99 | 38.49 | 737 | 1.05 | 0.19 | 40.3 |
| 4/27/2015 18:06:15 | 42.32 | 38.82 | 743 | 1.06 | 0.19 | 40.6 |
| 4/27/2015 18:06:16 | 42.65 | 39.15 | 739 | 1.05 | 0.19 | 40.4 |
| 4/27/2015 18:06:16 | 42.98 | 39.48 | 746 | 1.05 | 0.19 | 40.8 |
| 4/27/2015 18:06:17 | 43.31 | 39.81 | 746 | 1.05 | 0.19 | 40.8 |
| 4/27/2015 18:06:17 | 43.64 | 40.14 | 743 | 1.06 | 0.19 | 40.6 |
| 4/27/2015 18:06:17 | 43.96 | 40.46 | 743 | 1.05 | 0.19 | 40.6 |
| 4/27/2015 18:06:18 | 44.29 | 40.79 | 740 | 1.06 | 0.19 | 40.5 |
| 4/27/2015 18:06:18 | 44.62 | 41.12 | 743 | 1.05 | 0.19 | 40.6 |
| 4/27/2015 18:06:19 | 44.95 | 41.45 | 740 | 1.06 | 0.19 | 40.5 |
| 4/27/2015 18:06:20 | 45.28 | 41.78 | 740 | 1.05 | 0.19 | 40.5 |
| 4/27/2015 18:06:20 | 45.60 | 42.10 | 725 | 1.05 | 0.19 | 39.6 |
| 4/27/2015 18:06:21 | 45.93 | 42.43 | 737 | 1.06 | 0.19 | 40.3 |
| 4/27/2015 18:06:21 | 46.26 | 42.76 | 723 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 18:06:22 | 46.59 | 43.09 | 719 | 1.06 | 0.19 | 39.3 |
| 4/27/2015 18:06:22 | 46.92 | 43.42 | 719 | 1.06 | 0.19 | 39.3 |
| 4/27/2015 18:06:23 | 47.24 | 43.74 | 727 | 1.06 | 0.19 | 39.8 |
| 4/27/2015 18:06:23 | 47.57 | 44.07 | 744 | 1.05 | 0.19 | 40.7 |
| 4/27/2015 18:06:24 | 47.90 | 44.40 | 713 | 1.11 | 0.19 | 39.0 |
| 4/27/2015 18:06:38 | 48.23 | 44.73 | 101 | 1.09 | 1.39 | 5.5 |
| 4/27/2015 18:06:47 | 48.56 | 45.06 | 30 | 0.98 | 1.29 | 1.7 |
| 4/27/2015 18:06:48 | 48.88 | 45.38 | 186 | 1.04 | 1.40 | 10.2 |
| 4/27/2015 18:06:51 | 49.21 | 45.71 | 177 | 0.99 | 1.17 | 9.7 |
| 4/27/2015 18:06:52 | 49.54 | 46.04 | 147 | 1.02 | 1.02 | 8.0 |
| 4/27/2015 18:06:53 | 49.87 | 46.37 | 262 | 1.03 | 1.83 | 14.3 |
| 4/27/2015 18:06:55 | 50.20 | 46.70 | 251 | 1.00 | 0.95 | 13.7 |
| 4/27/2015 18:06:56 | 50.53 | 47.03 | 261 | 1.09 | 1.09 | 14.3 |
| 4/27/2015 18:06:58 | 50.85 | 47.35 | 231 | 1.07 | 1.05 | 12.6 |
| 4/27/2015 18:06:59 | 51.18 | 47.68 | 270 | 1.09 | 1.10 | 14.8 |
| 4/27/2015 18:06:59 | 51.51 | 48.01 | 294 | 1.01 | 0.95 | 16.1 |
| 4/27/2015 18:07:00 | 51.84 | 48.34 | 373 | 1.17 | 1.03 | 20.4 |
| 4/27/2015 18:07:04 | 52.17 | 48.67 | 114 | 1.74 | 0.96 | 6.2 |
| 4/27/2015 18:07:06 | 52.49 | 48.99 | 170 | 1.02 | 0.99 | 9.3 |
| 4/27/2015 18:07:08 | 52.82 | 49.32 | 136 | 1.03 | 1.31 | 7.4 |
| 4/27/2015 18:07:09 | 53.15 | 49.65 | 240 | 1.13 | 1.13 | 13.1 |
| 4/27/2015 18:07:11 | 53.48 | 49.98 | 221 | 1.05 | 1.32 | 12.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 18:07:13 | 53.81 | 50.31 | 204 | 1.07 | 1.13 | 11.1 |
| 4/27/2015 | 18:07:15 | 54.13 | 50.63 | 202 | 1.16 | 1.34 | 11.0 |
| 4/27/2015 | 18:07:17 | 54.46 | 50.96 | 119 | 1.05 | 1.09 | 6.5 |
| 4/27/2015 | 18:07:20 | 54.79 | 51.29 | 124 | 1.06 | 1.18 | 6.8 |
| 4/27/2015 | 18:07:25 | 55.12 | 51.62 | 68 | 1.05 | 1.15 | 3.7 |
| 4/27/2015 | 18:07:31 | 55.45 | 51.95 | 52 | 1.00 | 0.92 | 2.8 |
| 4/27/2015 | 18:07:38 | 55.77 | 52.27 | 54 | 1.07 | 0.92 | 3.0 |
| 4/27/2015 | 18:07:44 | 56.10 | 52.60 | 70 | 1.02 | 1.06 | 3.8 |
| 4/27/2015 | 18:07:48 | 56.43 | 52.93 | 84 | 1.00 | 0.99 | 4.6 |
| 4/27/2015 | 18:07:54 | 56.75 | 53.25 | 71 | 0.54 | 1.13 | 3.9 |

## I103 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:04:16

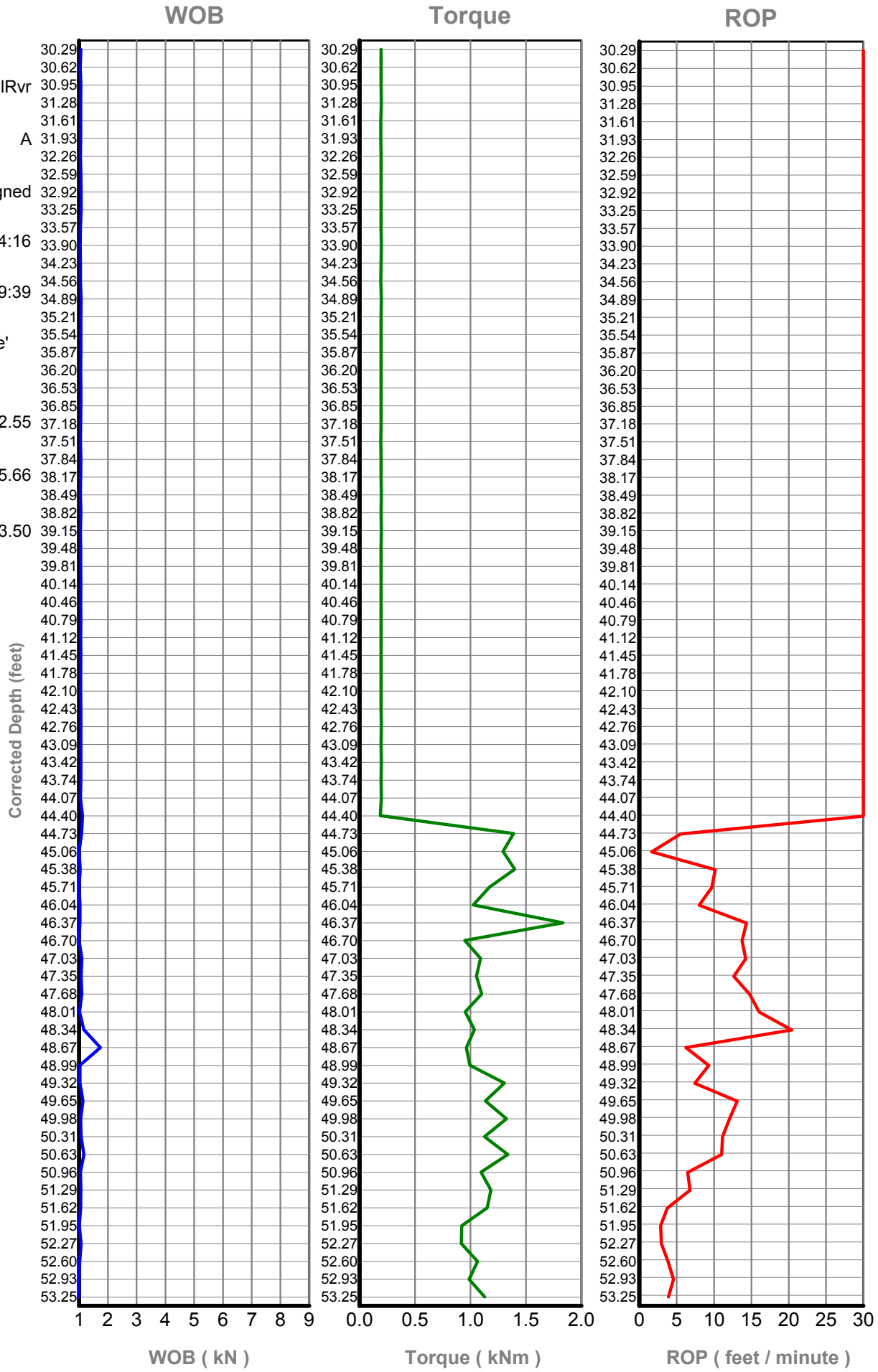
**End Date:**
4/27/2015 18:09:39

**Operator Note:**
'3.5 3.3 a Auto Complete'

**Northing:**
364,322.55

**Easting:**
248,445.66

**Tide (feet):**
3.50



## Hole: I104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:05:45 | 33.79 | 30.29 | 1,139 | 0.28 | 0.32 | 62.3 |
| 4/27/2015 18:05:45 | 34.12 | 30.62 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 18:05:46 | 34.45 | 30.95 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 18:05:46 | 34.78 | 31.28 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 18:05:47 | 35.11 | 31.61 | 1,129 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 18:05:47 | 35.43 | 31.93 | 1,129 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 18:05:47 | 35.76 | 32.26 | 1,142 | 0.29 | 0.32 | 62.4 |
| 4/27/2015 18:05:48 | 36.09 | 32.59 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 18:05:48 | 36.42 | 32.92 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 18:05:48 | 36.75 | 33.25 | 1,133 | 0.29 | 0.32 | 62.0 |
| 4/27/2015 18:05:49 | 37.07 | 33.57 | 1,133 | 0.29 | 0.32 | 62.0 |
| 4/27/2015 18:05:49 | 37.40 | 33.90 | 1,127 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 18:05:49 | 37.73 | 34.23 | 1,127 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 18:05:50 | 38.06 | 34.56 | 1,127 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 18:05:50 | 38.39 | 34.89 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:50 | 38.71 | 35.21 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:50 | 39.04 | 35.54 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 18:05:51 | 39.37 | 35.87 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 18:05:51 | 39.70 | 36.20 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 18:05:51 | 40.03 | 36.53 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:52 | 40.35 | 36.85 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:52 | 40.68 | 37.18 | 1,133 | 0.29 | 0.32 | 62.0 |
| 4/27/2015 18:05:52 | 41.01 | 37.51 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:53 | 41.34 | 37.84 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:53 | 41.67 | 38.17 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:53 | 41.99 | 38.49 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:53 | 42.32 | 38.82 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 18:05:54 | 42.65 | 39.15 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:54 | 42.98 | 39.48 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:54 | 43.31 | 39.81 | 1,116 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 18:05:55 | 43.64 | 40.14 | 1,109 | 0.29 | 0.32 | 60.6 |
| 4/27/2015 18:05:55 | 43.96 | 40.46 | 1,109 | 0.29 | 0.32 | 60.6 |
| 4/27/2015 18:05:55 | 44.29 | 40.79 | 1,122 | 0.29 | 0.33 | 61.3 |
| 4/27/2015 18:05:56 | 44.62 | 41.12 | 1,122 | 0.29 | 0.33 | 61.3 |
| 4/27/2015 18:05:56 | 44.95 | 41.45 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:56 | 45.28 | 41.78 | 1,125 | 0.29 | 0.31 | 61.5 |
| 4/27/2015 18:05:57 | 45.60 | 42.10 | 1,125 | 0.29 | 0.31 | 61.5 |
| 4/27/2015 18:05:57 | 45.93 | 42.43 | 1,125 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 18:05:58 | 46.26 | 42.76 | 1,125 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 18:05:58 | 46.59 | 43.09 | 1,137 | 0.29 | 0.33 | 62.2 |
| 4/27/2015 18:05:58 | 46.92 | 43.42 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:59 | 47.24 | 43.74 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:59 | 47.57 | 44.07 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 18:05:59 | 47.90 | 44.40 | 1,112 | 0.29 | 0.33 | 60.8 |
| 4/27/2015 18:06:00 | 48.23 | 44.73 | 1,112 | 0.29 | 0.33 | 60.8 |
| 4/27/2015 18:06:00 | 48.56 | 45.06 | 1,122 | 0.28 | 0.35 | 61.3 |
| 4/27/2015 18:06:10 | 48.88 | 45.38 | 0 | 3.86 | 0.37 | 0.0 |
| 4/27/2015 18:06:10 | 49.21 | 45.71 | 37 | 3.57 | 0.37 | 2.0 |
| 4/27/2015 18:06:11 | 49.54 | 46.04 | 160 | 4.09 | 0.37 | 8.7 |
| 4/27/2015 18:06:22 | 49.87 | 46.37 | 30 | 4.28 | 0.39 | 1.6 |
| 4/27/2015 18:06:23 | 50.20 | 46.70 | 145 | 4.34 | 0.38 | 7.9 |
| 4/27/2015 18:06:24 | 50.53 | 47.03 | 294 | 3.48 | 0.37 | 16.1 |
| 4/27/2015 18:06:24 | 50.85 | 47.35 | 367 | 3.10 | 0.37 | 20.1 |
| 4/27/2015 18:06:31 | 51.18 | 47.68 | 0 | 2.67 | 0.38 | 0.0 |
| 4/27/2015 18:06:32 | 51.51 | 48.01 | 122 | 8.10 | 0.39 | 6.7 |
| 4/27/2015 18:06:40 | 51.84 | 48.34 | 15 | 4.93 | 0.38 | 0.8 |
| 4/27/2015 18:06:41 | 52.17 | 48.67 | 96 | 4.38 | 0.38 | 5.2 |
| 4/27/2015 18:06:42 | 52.49 | 48.99 | 266 | 3.88 | 0.39 | 14.5 |
| 4/27/2015 18:06:43 | 52.82 | 49.32 | 370 | 5.07 | 0.39 | 20.3 |
| 4/27/2015 18:06:44 | 53.15 | 49.65 | 311 | 4.02 | 0.41 | 17.0 |
| 4/27/2015 18:06:45 | 53.48 | 49.98 | 271 | 3.59 | 0.39 | 14.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 18:06:51 | 53.81 | 50.31 | 50 | 2.89 | 0.41 | 2.7 |
| 4/27/2015 | 18:06:55 | 54.13 | 50.63 | 100 | 3.47 | 0.40 | 5.4 |
| 4/27/2015 | 18:07:01 | 54.46 | 50.96 | 65 | 3.37 | 0.41 | 3.5 |
| 4/27/2015 | 18:07:07 | 54.79 | 51.29 | 52 | 2.88 | 0.40 | 2.9 |
| 4/27/2015 | 18:07:15 | 55.12 | 51.62 | 45 | 2.90 | 0.41 | 2.5 |
| 4/27/2015 | 18:07:16 | 55.17 | 51.67 | 48 | 3.07 | 0.41 | 2.6 |

## I104 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:04:14

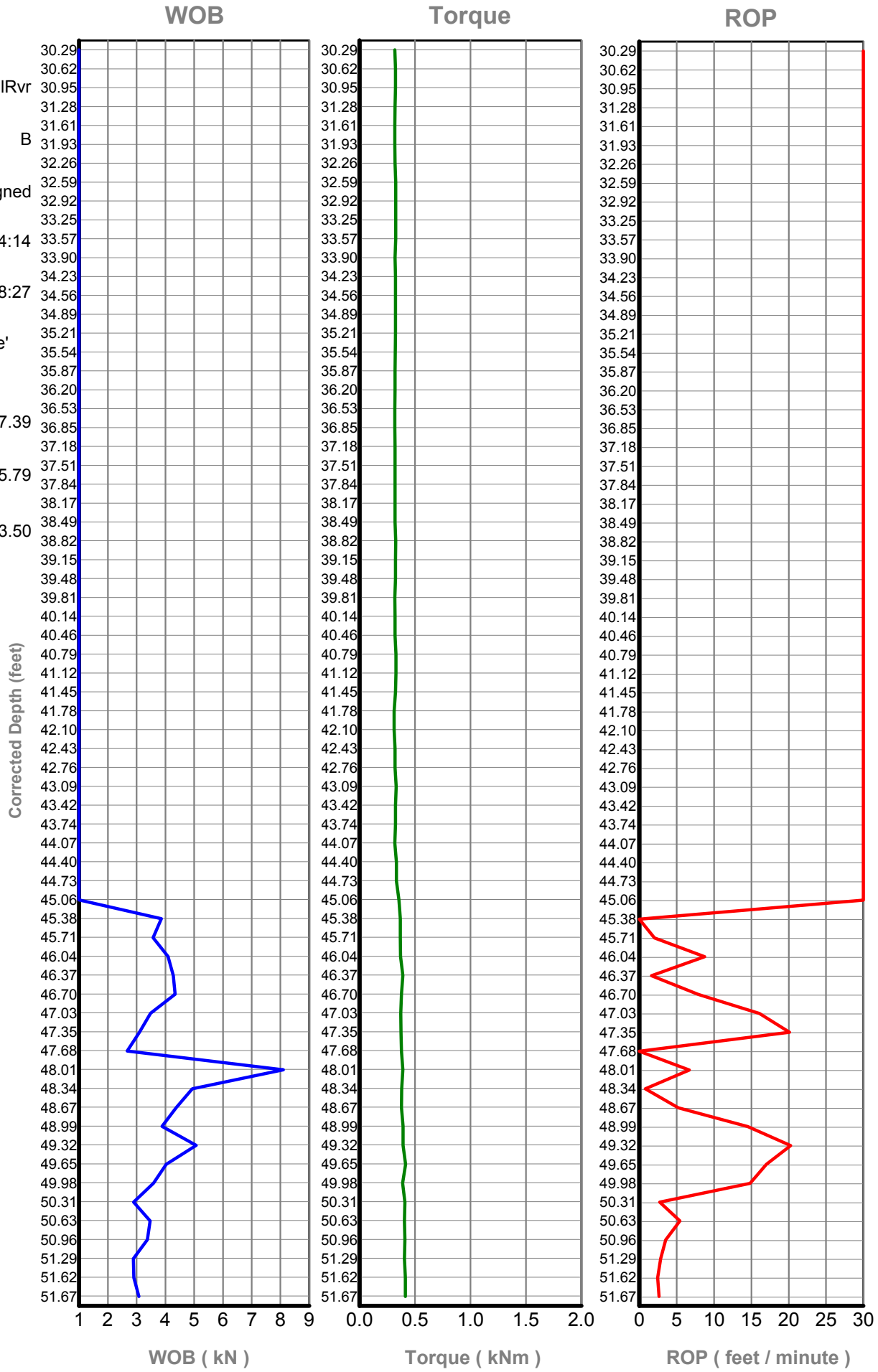
**End Date:**
4/27/2015 18:08:27

**Operator Note:**
'3.5 3.3 b Auto Complete'

**Northing:**
364,367.39

**Easting:**
248,505.79

**Tide (feet):**
3.50



## Hole: I105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:05:54 | 33.79 | 30.29 | 1,107 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 18:05:55 | 34.12 | 30.62 | 1,107 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 18:05:55 | 34.45 | 30.95 | 1,100 | 1.62 | 0.29 | 60.1 |
| 4/27/2015 18:05:55 | 34.78 | 31.28 | 1,118 | 1.59 | 0.29 | 61.1 |
| 4/27/2015 18:05:56 | 35.11 | 31.61 | 1,118 | 1.59 | 0.29 | 61.1 |
| 4/27/2015 18:05:56 | 35.43 | 31.93 | 1,102 | 1.59 | 0.29 | 60.3 |
| 4/27/2015 18:05:56 | 35.76 | 32.26 | 1,102 | 1.60 | 0.29 | 60.3 |
| 4/27/2015 18:05:57 | 36.09 | 32.59 | 1,102 | 1.60 | 0.29 | 60.3 |
| 4/27/2015 18:05:57 | 36.42 | 32.92 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 18:05:57 | 36.75 | 33.25 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 18:05:57 | 37.07 | 33.57 | 1,084 | 1.62 | 0.29 | 59.3 |
| 4/27/2015 18:05:58 | 37.40 | 33.90 | 1,118 | 1.61 | 0.29 | 61.1 |
| 4/27/2015 18:05:58 | 37.73 | 34.23 | 1,118 | 1.61 | 0.29 | 61.1 |
| 4/27/2015 18:05:58 | 38.06 | 34.56 | 1,118 | 1.59 | 0.29 | 61.1 |
| 4/27/2015 18:05:59 | 38.39 | 34.89 | 1,118 | 1.59 | 0.29 | 61.1 |
| 4/27/2015 18:05:59 | 38.71 | 35.21 | 1,112 | 1.60 | 0.29 | 60.8 |
| 4/27/2015 18:06:00 | 39.04 | 35.54 | 1,124 | 1.59 | 0.29 | 61.5 |
| 4/27/2015 18:06:00 | 39.37 | 35.87 | 1,124 | 1.59 | 0.29 | 61.5 |
| 4/27/2015 18:06:00 | 39.70 | 36.20 | 1,122 | 1.59 | 0.29 | 61.4 |
| 4/27/2015 18:06:01 | 40.03 | 36.53 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 18:06:01 | 40.35 | 36.85 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 18:06:01 | 40.68 | 37.18 | 1,100 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 18:06:02 | 41.01 | 37.51 | 1,100 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 18:06:02 | 41.34 | 37.84 | 1,113 | 1.59 | 0.29 | 60.9 |
| 4/27/2015 18:06:02 | 41.67 | 38.17 | 1,087 | 1.60 | 0.29 | 59.5 |
| 4/27/2015 18:06:03 | 41.99 | 38.49 | 1,087 | 1.60 | 0.29 | 59.5 |
| 4/27/2015 18:06:02 | 42.32 | 38.82 | 1,087 | 1.61 | 0.29 | 59.5 |
| 4/27/2015 18:06:03 | 42.65 | 39.15 | 1,087 | 1.61 | 0.29 | 59.5 |
| 4/27/2015 18:06:03 | 42.98 | 39.48 | 1,087 | 1.61 | 0.29 | 59.5 |
| 4/27/2015 18:06:04 | 43.31 | 39.81 | 1,099 | 1.59 | 0.29 | 60.1 |
| 4/27/2015 18:06:04 | 43.64 | 40.14 | 1,099 | 1.59 | 0.29 | 60.1 |
| 4/27/2015 18:06:04 | 43.96 | 40.46 | 1,089 | 1.61 | 0.29 | 59.6 |
| 4/27/2015 18:06:05 | 44.29 | 40.79 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 18:06:05 | 44.62 | 41.12 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 18:06:05 | 44.95 | 41.45 | 1,080 | 1.59 | 0.29 | 59.1 |
| 4/27/2015 18:06:06 | 45.28 | 41.78 | 1,080 | 1.59 | 0.29 | 59.1 |
| 4/27/2015 18:06:06 | 45.60 | 42.10 | 1,109 | 1.60 | 0.29 | 60.7 |
| 4/27/2015 18:06:06 | 45.93 | 42.43 | 1,095 | 1.60 | 0.29 | 59.9 |
| 4/27/2015 18:06:07 | 46.26 | 42.76 | 1,095 | 1.60 | 0.29 | 59.9 |
| 4/27/2015 18:06:07 | 46.59 | 43.09 | 1,102 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 18:06:07 | 46.92 | 43.42 | 1,098 | 1.59 | 0.29 | 60.0 |
| 4/27/2015 18:06:08 | 47.24 | 43.74 | 1,098 | 1.59 | 0.29 | 60.0 |
| 4/27/2015 18:06:08 | 47.57 | 44.07 | 1,104 | 1.60 | 0.29 | 60.4 |
| 4/27/2015 18:06:08 | 47.90 | 44.40 | 1,104 | 1.60 | 0.29 | 60.4 |
| 4/27/2015 18:06:08 | 48.23 | 44.73 | 1,101 | 1.60 | 0.29 | 60.2 |
| 4/27/2015 18:06:13 | 48.56 | 45.06 | 0 | 1.70 | 1.27 | 0.0 |
| 4/27/2015 18:06:15 | 48.88 | 45.38 | 127 | 1.74 | 1.21 | 7.0 |
| 4/27/2015 18:06:19 | 49.21 | 45.71 | 0 | 1.72 | 1.18 | 0.0 |
| 4/27/2015 18:06:24 | 49.54 | 46.04 | 36 | 1.68 | 1.15 | 2.0 |
| 4/27/2015 18:06:24 | 49.87 | 46.37 | 151 | 1.70 | 1.26 | 8.2 |
| 4/27/2015 18:06:25 | 50.20 | 46.70 | 151 | 1.68 | 1.20 | 8.2 |
| 4/27/2015 18:06:56 | 50.53 | 47.03 | 29 | 1.67 | 1.27 | 1.6 |
| 4/27/2015 18:07:33 | 50.85 | 47.35 | 50 | 1.66 | 1.24 | 2.8 |
| 4/27/2015 18:07:39 | 51.18 | 47.68 | 56 | 1.65 | 1.23 | 3.1 |
| 4/27/2015 18:07:46 | 51.51 | 48.01 | 45 | 1.64 | 1.29 | 2.5 |
| 4/27/2015 18:07:52 | 51.84 | 48.34 | 57 | 1.66 | 1.14 | 3.1 |
| 4/27/2015 18:07:59 | 52.17 | 48.67 | 46 | 1.67 | 1.25 | 2.5 |
| 4/27/2015 18:08:02 | 52.34 | 48.84 | 53 | 1.68 | 1.24 | 2.9 |

## I105 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:04:33

**End Date:**
4/27/2015 18:09:44

**Operator Note:**
'3.5 3.3 c Auto Complete'

**Northing:**
364,413.90

**Easting:**
248,564.61

**Tide (feet):**
3.50



## Hole: I106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:02:29 | 31.50 | 30.20 | 733 | 1.05 | 0.30 | 40.1 |
| 4/27/2015 14:02:29 | 31.82 | 30.52 | 718 | 1.05 | 0.30 | 39.3 |
| 4/27/2015 14:02:30 | 32.15 | 30.85 | 716 | 1.07 | 0.30 | 39.2 |
| 4/27/2015 14:02:30 | 32.48 | 31.18 | 716 | 1.05 | 0.30 | 39.2 |
| 4/27/2015 14:02:31 | 32.81 | 31.51 | 716 | 1.05 | 0.30 | 39.2 |
| 4/27/2015 14:02:31 | 33.14 | 31.84 | 727 | 1.05 | 0.30 | 39.8 |
| 4/27/2015 14:02:31 | 33.46 | 32.16 | 730 | 1.04 | 0.30 | 39.9 |
| 4/27/2015 14:02:32 | 33.79 | 32.49 | 730 | 1.07 | 0.30 | 39.9 |
| 4/27/2015 14:02:32 | 34.12 | 32.82 | 730 | 1.06 | 0.30 | 39.9 |
| 4/27/2015 14:02:33 | 34.45 | 33.15 | 745 | 1.06 | 0.30 | 40.7 |
| 4/27/2015 14:02:34 | 34.78 | 33.48 | 757 | 1.06 | 0.30 | 41.4 |
| 4/27/2015 14:02:34 | 35.11 | 33.81 | 751 | 1.07 | 0.30 | 41.1 |
| 4/27/2015 14:02:35 | 35.43 | 34.13 | 751 | 1.07 | 0.30 | 41.1 |
| 4/27/2015 14:02:35 | 35.76 | 34.46 | 750 | 1.07 | 0.30 | 41.0 |
| 4/27/2015 14:02:36 | 36.09 | 34.79 | 750 | 1.05 | 0.30 | 41.0 |
| 4/27/2015 14:02:36 | 36.42 | 35.12 | 748 | 1.05 | 0.30 | 40.9 |
| 4/27/2015 14:02:37 | 36.75 | 35.45 | 728 | 1.05 | 0.30 | 39.8 |
| 4/27/2015 14:02:37 | 37.07 | 35.77 | 728 | 1.05 | 0.30 | 39.8 |
| 4/27/2015 14:02:37 | 37.40 | 36.10 | 725 | 1.07 | 0.30 | 39.7 |
| 4/27/2015 14:02:38 | 37.73 | 36.43 | 725 | 1.05 | 0.30 | 39.7 |
| 4/27/2015 14:02:38 | 38.06 | 36.76 | 738 | 1.06 | 0.30 | 40.3 |
| 4/27/2015 14:02:39 | 38.39 | 37.09 | 747 | 1.07 | 0.30 | 40.8 |
| 4/27/2015 14:02:39 | 38.71 | 37.41 | 751 | 1.07 | 0.30 | 41.1 |
| 4/27/2015 14:02:40 | 39.04 | 37.74 | 772 | 1.05 | 0.30 | 42.2 |
| 4/27/2015 14:02:40 | 39.37 | 38.07 | 773 | 1.07 | 0.30 | 42.3 |
| 4/27/2015 14:02:41 | 39.70 | 38.40 | 761 | 1.05 | 0.30 | 41.6 |
| 4/27/2015 14:02:41 | 40.03 | 38.73 | 757 | 1.06 | 0.30 | 41.4 |
| 4/27/2015 14:02:42 | 40.35 | 39.05 | 751 | 1.05 | 0.30 | 41.1 |
| 4/27/2015 14:02:42 | 40.68 | 39.38 | 751 | 1.05 | 0.30 | 41.1 |
| 4/27/2015 14:02:42 | 41.01 | 39.71 | 743 | 1.06 | 0.30 | 40.6 |
| 4/27/2015 14:02:43 | 41.34 | 40.04 | 740 | 1.07 | 0.30 | 40.5 |
| 4/27/2015 14:02:44 | 41.67 | 40.37 | 745 | 1.05 | 0.30 | 40.7 |
| 4/27/2015 14:02:44 | 41.99 | 40.69 | 740 | 1.06 | 0.30 | 40.5 |
| 4/27/2015 14:02:45 | 42.32 | 41.02 | 740 | 1.07 | 0.30 | 40.5 |
| 4/27/2015 14:02:45 | 42.65 | 41.35 | 739 | 1.07 | 0.30 | 40.4 |
| 4/27/2015 14:02:46 | 42.98 | 41.68 | 746 | 1.07 | 0.30 | 40.8 |
| 4/27/2015 14:02:46 | 43.31 | 42.01 | 738 | 1.07 | 0.30 | 40.3 |
| 4/27/2015 14:02:47 | 43.64 | 42.34 | 739 | 1.07 | 0.30 | 40.4 |
| 4/27/2015 14:02:47 | 43.96 | 42.66 | 747 | 1.08 | 0.30 | 40.8 |
| 4/27/2015 14:02:48 | 44.29 | 42.99 | 744 | 1.07 | 0.30 | 40.7 |
| 4/27/2015 14:02:48 | 44.62 | 43.32 | 744 | 1.06 | 0.30 | 40.7 |
| 4/27/2015 14:02:49 | 44.95 | 43.65 | 744 | 1.06 | 0.30 | 40.7 |
| 4/27/2015 14:02:49 | 45.28 | 43.98 | 752 | 1.05 | 0.30 | 41.1 |
| 4/27/2015 14:02:49 | 45.60 | 44.30 | 745 | 1.06 | 0.30 | 40.7 |
| 4/27/2015 14:02:50 | 45.93 | 44.63 | 740 | 1.07 | 0.30 | 40.5 |
| 4/27/2015 14:02:50 | 46.26 | 44.96 | 737 | 1.06 | 0.30 | 40.3 |
| 4/27/2015 14:03:08 | 46.59 | 45.29 | 0 | 1.08 | 0.79 | 0.0 |
| 4/27/2015 14:03:12 | 46.92 | 45.62 | 9 | 0.95 | 0.90 | 0.5 |
| 4/27/2015 14:03:14 | 47.24 | 45.94 | 106 | 1.08 | 1.23 | 5.8 |
| 4/27/2015 14:03:15 | 47.57 | 46.27 | 223 | 1.05 | 1.26 | 12.2 |
| 4/27/2015 14:03:16 | 47.90 | 46.60 | 315 | 1.09 | 1.05 | 17.2 |
| 4/27/2015 14:03:17 | 48.23 | 46.93 | 319 | 1.11 | 1.21 | 17.4 |
| 4/27/2015 14:03:19 | 48.56 | 47.26 | 316 | 1.09 | 1.17 | 17.3 |
| 4/27/2015 14:03:20 | 48.88 | 47.58 | 303 | 1.10 | 1.00 | 16.6 |
| 4/27/2015 14:03:22 | 49.21 | 47.91 | 216 | 1.07 | 1.23 | 11.8 |
| 4/27/2015 14:03:26 | 49.54 | 48.24 | 84 | 1.08 | 1.12 | 4.6 |
| 4/27/2015 14:03:32 | 49.87 | 48.57 | 67 | 1.13 | 1.18 | 3.7 |
| 4/27/2015 14:03:35 | 50.20 | 48.90 | 86 | 1.13 | 1.17 | 4.7 |
| 4/27/2015 14:03:38 | 50.53 | 49.23 | 137 | 1.07 | 1.14 | 7.5 |
| 4/27/2015 14:03:42 | 50.85 | 49.55 | 109 | 1.00 | 1.17 | 6.0 |
| 4/27/2015 14:03:44 | 51.18 | 49.88 | 156 | 1.00 | 1.10 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:03:48 | 51.51 | 50.21 | 78 | 1.09 | 1.15 | 4.3 |
| 4/27/2015 | 14:03:55 | 51.84 | 50.54 | 34 | 1.09 | 0.95 | 1.9 |
| 4/27/2015 | 14:04:04 | 52.17 | 50.87 | 40 | 1.04 | 1.02 | 2.2 |
| 4/27/2015 | 14:04:13 | 52.49 | 51.19 | 38 | 1.01 | 0.87 | 2.1 |
| 4/27/2015 | 14:04:21 | 52.82 | 51.52 | 44 | 1.08 | 0.97 | 2.4 |
| 4/27/2015 | 14:04:23 | 52.91 | 51.61 | 46 | 1.09 | 1.07 | 2.5 |

## I106 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 14:00:11

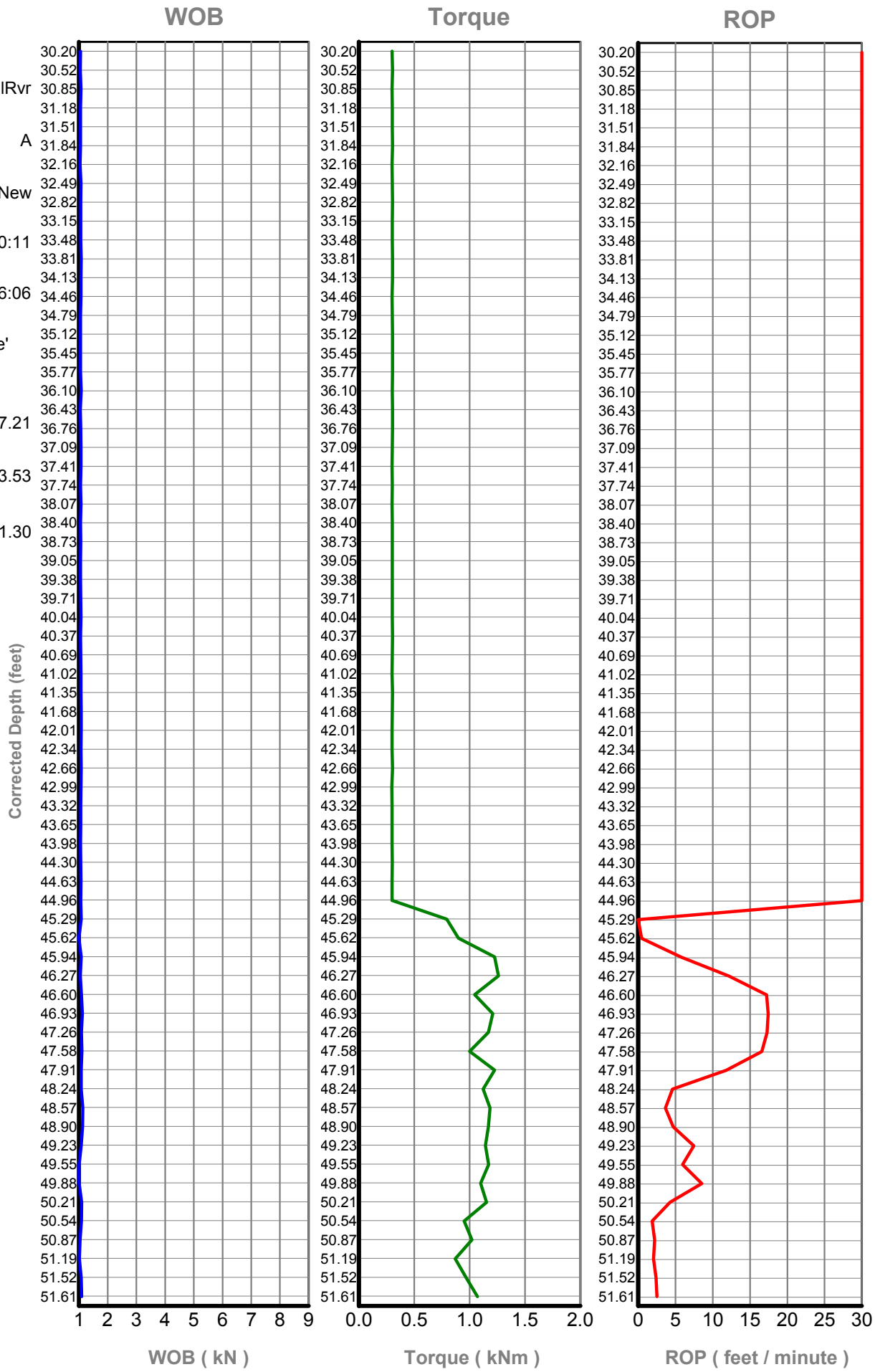
**End Date:**
4/27/2015 14:06:06

**Operator Note:**
'1.3 1.5 a Auto Complete'

**Northing:**
364,457.21

**Easting:**
248,623.53

**Tide (feet):**
1.30



## Hole: I107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:01:52 | 31.50 | 30.20 | 1,102 | 0.26 | 0.31 | 60.2 |
| 4/27/2015 14:01:52 | 31.82 | 30.52 | 1,108 | 0.28 | 0.32 | 60.6 |
| 4/27/2015 14:01:52 | 32.15 | 30.85 | 1,122 | 0.27 | 0.31 | 61.4 |
| 4/27/2015 14:01:53 | 32.48 | 31.18 | 1,122 | 0.27 | 0.31 | 61.4 |
| 4/27/2015 14:01:53 | 32.81 | 31.51 | 1,125 | 0.27 | 0.31 | 61.5 |
| 4/27/2015 14:01:54 | 33.14 | 31.84 | 1,125 | 0.27 | 0.31 | 61.5 |
| 4/27/2015 14:01:54 | 33.46 | 32.16 | 1,093 | 0.28 | 0.31 | 59.8 |
| 4/27/2015 14:01:54 | 33.79 | 32.49 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 14:01:55 | 34.12 | 32.82 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 14:01:55 | 34.45 | 33.15 | 1,098 | 0.29 | 0.32 | 60.0 |
| 4/27/2015 14:01:55 | 34.78 | 33.48 | 1,098 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 14:01:56 | 35.11 | 33.81 | 1,098 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 14:01:56 | 35.43 | 34.13 | 1,115 | 0.26 | 0.32 | 61.0 |
| 4/27/2015 14:01:56 | 35.76 | 34.46 | 1,115 | 0.26 | 0.32 | 61.0 |
| 4/27/2015 14:01:56 | 36.09 | 34.79 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 14:01:57 | 36.42 | 35.12 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 14:01:57 | 36.75 | 35.45 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 14:01:57 | 37.07 | 35.77 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 14:01:58 | 37.40 | 36.10 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 14:01:58 | 37.73 | 36.43 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/27/2015 14:01:58 | 38.06 | 36.76 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/27/2015 14:01:59 | 38.39 | 37.09 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/27/2015 14:01:59 | 38.71 | 37.41 | 1,094 | 0.27 | 0.32 | 59.8 |
| 4/27/2015 14:01:59 | 39.04 | 37.74 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 14:02:00 | 39.37 | 38.07 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 14:02:00 | 39.70 | 38.40 | 1,125 | 0.27 | 0.31 | 61.5 |
| 4/27/2015 14:02:01 | 40.03 | 38.73 | 1,125 | 0.27 | 0.31 | 61.5 |
| 4/27/2015 14:02:00 | 40.35 | 39.05 | 1,094 | 0.27 | 0.32 | 59.8 |
| 4/27/2015 14:02:01 | 40.68 | 39.38 | 1,094 | 0.28 | 0.31 | 59.8 |
| 4/27/2015 14:02:02 | 41.01 | 39.71 | 1,094 | 0.28 | 0.31 | 59.8 |
| 4/27/2015 14:02:01 | 41.34 | 40.04 | 1,109 | 0.27 | 0.32 | 60.6 |
| 4/27/2015 14:02:02 | 41.67 | 40.37 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/27/2015 14:02:03 | 41.99 | 40.69 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/27/2015 14:02:03 | 42.32 | 41.02 | 1,102 | 0.27 | 0.32 | 60.3 |
| 4/27/2015 14:02:03 | 42.65 | 41.35 | 1,102 | 0.27 | 0.32 | 60.3 |
| 4/27/2015 14:02:03 | 42.98 | 41.68 | 1,095 | 0.27 | 0.31 | 59.9 |
| 4/27/2015 14:02:04 | 43.31 | 42.01 | 1,106 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:02:04 | 43.64 | 42.34 | 1,106 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:02:04 | 43.96 | 42.66 | 1,108 | 0.27 | 0.31 | 60.6 |
| 4/27/2015 14:02:05 | 44.29 | 42.99 | 1,108 | 0.27 | 0.31 | 60.6 |
| 4/27/2015 14:02:05 | 44.62 | 43.32 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 14:02:05 | 44.95 | 43.65 | 1,105 | 0.27 | 0.31 | 60.5 |
| 4/27/2015 14:02:06 | 45.28 | 43.98 | 1,105 | 0.27 | 0.31 | 60.5 |
| 4/27/2015 14:02:06 | 45.60 | 44.30 | 1,109 | 0.27 | 0.31 | 60.7 |
| 4/27/2015 14:02:06 | 45.93 | 44.63 | 1,072 | 0.28 | 0.31 | 58.6 |
| 4/27/2015 14:02:07 | 46.26 | 44.96 | 1,072 | 0.28 | 0.31 | 58.6 |
| 4/27/2015 14:02:07 | 46.59 | 45.29 | 1,072 | 0.27 | 0.32 | 58.6 |
| 4/27/2015 14:02:07 | 46.92 | 45.62 | 1,072 | 0.27 | 0.32 | 58.6 |
| 4/27/2015 14:02:07 | 47.24 | 45.94 | 1,111 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 14:02:08 | 47.57 | 46.27 | 1,086 | 0.27 | 0.33 | 59.4 |
| 4/27/2015 14:02:08 | 47.90 | 46.60 | 1,066 | 0.26 | 0.32 | 58.3 |
| 4/27/2015 14:02:09 | 48.23 | 46.93 | 1,066 | 0.26 | 0.32 | 58.3 |
| 4/27/2015 14:02:09 | 48.56 | 47.26 | 1,024 | 0.26 | 0.35 | 56.0 |
| 4/27/2015 14:02:21 | 48.88 | 47.58 | 9 | 1.88 | 0.33 | 0.5 |
| 4/27/2015 14:02:21 | 49.21 | 47.91 | 179 | 1.87 | 0.33 | 9.8 |
| 4/27/2015 14:02:22 | 49.54 | 48.24 | 179 | 1.87 | 0.33 | 9.8 |
| 4/27/2015 14:02:22 | 49.87 | 48.57 | 367 | 1.86 | 0.33 | 20.1 |
| 4/27/2015 14:02:22 | 50.20 | 48.90 | 532 | 1.87 | 0.33 | 29.1 |
| 4/27/2015 14:02:23 | 50.53 | 49.23 | 532 | 1.84 | 0.33 | 29.1 |
| 4/27/2015 14:02:24 | 50.85 | 49.55 | 532 | 1.84 | 0.33 | 29.1 |
| 4/27/2015 14:02:24 | 51.18 | 49.88 | 711 | 1.85 | 0.33 | 38.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:02:24 | 51.51 | 50.21 | 711 | 2.17 | 0.34 | 38.9 |
| 4/27/2015 | 14:02:25 | 51.84 | 50.54 | 888 | 2.25 | 0.34 | 48.6 |
| 4/27/2015 | 14:02:25 | 52.17 | 50.87 | 878 | 2.22 | 0.34 | 48.0 |
| 4/27/2015 | 14:02:26 | 52.49 | 51.19 | 835 | 2.19 | 0.33 | 45.7 |
| 4/27/2015 | 14:02:26 | 52.82 | 51.52 | 835 | 2.19 | 0.33 | 45.7 |
| 4/27/2015 | 14:02:26 | 53.15 | 51.85 | 834 | 1.99 | 0.35 | 45.6 |
| 4/27/2015 | 14:02:27 | 53.48 | 52.18 | 727 | 2.97 | 0.38 | 39.8 |
| 4/27/2015 | 14:02:32 | 53.81 | 52.51 | 2 | 7.95 | 0.41 | 0.1 |
| 4/27/2015 | 14:02:43 | 54.13 | 52.83 | 0 | 3.49 | 0.37 | 0.0 |
| 4/27/2015 | 14:02:47 | 54.46 | 53.16 | 116 | 3.51 | 0.39 | 6.3 |
| 4/27/2015 | 14:02:49 | 54.79 | 53.49 | 134 | 2.92 | 0.39 | 7.3 |
| 4/27/2015 | 14:03:13 | 55.12 | 53.82 | 76 | 2.84 | 0.41 | 4.2 |
| 4/27/2015 | 14:03:18 | 55.45 | 54.15 | 79 | 4.07 | 0.40 | 4.3 |
| 4/27/2015 | 14:03:21 | 55.77 | 54.47 | 86 | 3.45 | 0.39 | 4.7 |
| 4/27/2015 | 14:03:25 | 56.10 | 54.80 | 100 | 3.05 | 0.40 | 5.5 |
| 4/27/2015 | 14:03:29 | 56.39 | 55.09 | 87 | 2.74 | 0.40 | 4.8 |

## I107 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:59:40

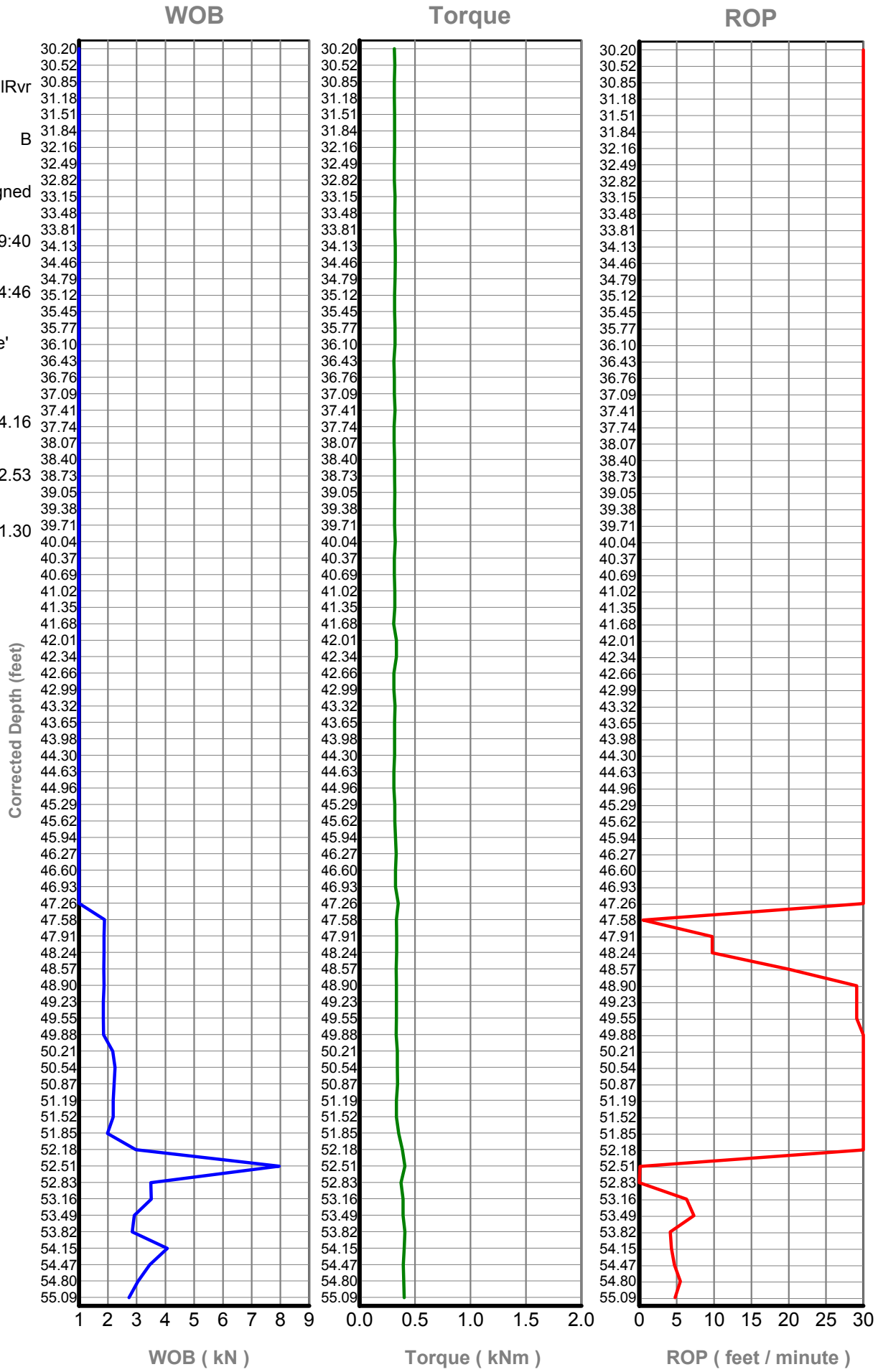
**End Date:**
4/27/2015 14:04:46

**Operator Note:**
'1.3 1.4 b Auto Complete'

**Northing:**
364,504.16

**Easting:**
248,682.53

**Tide (feet):**
1.30



## Hole: I108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:02:05 | 31.50 | 30.20 | 1,178 | 1.71 | 0.28 | 64.4 |
| 4/27/2015 14:02:06 | 31.82 | 30.52 | 1,173 | 1.69 | 0.28 | 64.1 |
| 4/27/2015 14:02:06 | 32.15 | 30.85 | 1,173 | 1.69 | 0.28 | 64.1 |
| 4/27/2015 14:02:06 | 32.48 | 31.18 | 1,175 | 1.70 | 0.28 | 64.3 |
| 4/27/2015 14:02:07 | 32.81 | 31.51 | 1,175 | 1.70 | 0.28 | 64.3 |
| 4/27/2015 14:02:07 | 33.14 | 31.84 | 1,185 | 1.72 | 0.28 | 64.8 |
| 4/27/2015 14:02:07 | 33.46 | 32.16 | 1,185 | 1.72 | 0.28 | 64.8 |
| 4/27/2015 14:02:07 | 33.79 | 32.49 | 1,189 | 1.70 | 0.28 | 65.0 |
| 4/27/2015 14:02:08 | 34.12 | 32.82 | 1,162 | 1.70 | 0.27 | 63.5 |
| 4/27/2015 14:02:08 | 34.45 | 33.15 | 1,162 | 1.70 | 0.27 | 63.5 |
| 4/27/2015 14:02:08 | 34.78 | 33.48 | 1,166 | 1.70 | 0.27 | 63.8 |
| 4/27/2015 14:02:09 | 35.11 | 33.81 | 1,166 | 1.70 | 0.27 | 63.8 |
| 4/27/2015 14:02:09 | 35.43 | 34.13 | 1,166 | 1.70 | 0.28 | 63.8 |
| 4/27/2015 14:02:09 | 35.76 | 34.46 | 1,169 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:02:10 | 36.09 | 34.79 | 1,169 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:02:10 | 36.42 | 35.12 | 1,166 | 1.71 | 0.29 | 63.7 |
| 4/27/2015 14:02:11 | 36.75 | 35.45 | 1,166 | 1.71 | 0.29 | 63.7 |
| 4/27/2015 14:02:11 | 37.07 | 35.77 | 1,166 | 1.71 | 0.28 | 63.7 |
| 4/27/2015 14:02:11 | 37.40 | 36.10 | 1,161 | 1.72 | 0.28 | 63.5 |
| 4/27/2015 14:02:12 | 37.73 | 36.43 | 1,161 | 1.72 | 0.28 | 63.5 |
| 4/27/2015 14:02:12 | 38.06 | 36.76 | 1,171 | 1.70 | 0.73 | 64.1 |
| 4/27/2015 14:02:12 | 38.39 | 37.09 | 1,171 | 1.70 | 0.73 | 64.1 |
| 4/27/2015 14:02:12 | 38.71 | 37.41 | 1,168 | 1.71 | 0.28 | 63.9 |
| 4/27/2015 14:02:13 | 39.04 | 37.74 | 1,168 | 1.71 | 0.28 | 63.9 |
| 4/27/2015 14:02:13 | 39.37 | 38.07 | 1,161 | 1.72 | 0.28 | 63.5 |
| 4/27/2015 14:02:13 | 39.70 | 38.40 | 1,168 | 1.73 | 0.28 | 63.9 |
| 4/27/2015 14:02:14 | 40.03 | 38.73 | 1,168 | 1.73 | 0.28 | 63.9 |
| 4/27/2015 14:02:13 | 40.35 | 39.05 | 1,171 | 1.72 | 0.28 | 64.0 |
| 4/27/2015 14:02:14 | 40.68 | 39.38 | 1,171 | 1.72 | 0.28 | 64.0 |
| 4/27/2015 14:02:14 | 41.01 | 39.71 | 1,171 | 1.72 | 0.28 | 64.0 |
| 4/27/2015 14:02:15 | 41.34 | 40.04 | 1,161 | 1.72 | 0.28 | 63.5 |
| 4/27/2015 14:02:15 | 41.67 | 40.37 | 1,161 | 1.72 | 0.28 | 63.5 |
| 4/27/2015 14:02:15 | 41.99 | 40.69 | 1,164 | 1.62 | 0.28 | 63.7 |
| 4/27/2015 14:02:16 | 42.32 | 41.02 | 1,164 | 1.62 | 0.28 | 63.7 |
| 4/27/2015 14:02:16 | 42.65 | 41.35 | 1,164 | 1.70 | 0.28 | 63.7 |
| 4/27/2015 14:02:16 | 42.98 | 41.68 | 1,171 | 1.70 | 0.28 | 64.0 |
| 4/27/2015 14:02:17 | 43.31 | 42.01 | 1,171 | 1.70 | 0.28 | 64.0 |
| 4/27/2015 14:02:17 | 43.64 | 42.34 | 1,166 | 1.72 | 0.28 | 63.7 |
| 4/27/2015 14:02:17 | 43.96 | 42.66 | 1,166 | 1.72 | 0.28 | 63.7 |
| 4/27/2015 14:02:17 | 44.29 | 42.99 | 1,165 | 1.71 | 0.28 | 63.7 |
| 4/27/2015 14:02:18 | 44.62 | 43.32 | 1,165 | 1.71 | 0.28 | 63.7 |
| 4/27/2015 14:02:18 | 44.95 | 43.65 | 1,165 | 1.70 | 0.28 | 63.7 |
| 4/27/2015 14:02:18 | 45.28 | 43.98 | 1,162 | 1.70 | 0.28 | 63.5 |
| 4/27/2015 14:02:19 | 45.60 | 44.30 | 1,162 | 1.70 | 0.28 | 63.5 |
| 4/27/2015 14:02:19 | 45.93 | 44.63 | 1,162 | 1.70 | 0.26 | 63.5 |
| 4/27/2015 14:02:19 | 46.26 | 44.96 | 1,162 | 1.70 | 0.26 | 63.5 |
| 4/27/2015 14:02:19 | 46.59 | 45.29 | 1,155 | 1.76 | 0.28 | 63.2 |
| 4/27/2015 14:02:20 | 46.92 | 45.62 | 1,133 | 1.76 | 0.28 | 61.9 |
| 4/27/2015 14:02:21 | 47.24 | 45.94 | 1,070 | 1.77 | 0.28 | 58.5 |
| 4/27/2015 14:02:21 | 47.57 | 46.27 | 998 | 1.78 | 0.28 | 54.6 |
| 4/27/2015 14:02:22 | 47.90 | 46.60 | 998 | 1.78 | 0.28 | 54.6 |
| 4/27/2015 14:02:49 | 48.23 | 46.93 | 0 | 1.75 | 1.05 | 0.0 |
| 4/27/2015 14:02:50 | 48.56 | 47.26 | 40 | 1.78 | 0.94 | 2.2 |
| 4/27/2015 14:02:50 | 48.88 | 47.58 | 216 | 1.78 | 0.92 | 11.8 |
| 4/27/2015 14:02:51 | 49.21 | 47.91 | 376 | 1.76 | 1.05 | 20.6 |
| 4/27/2015 14:02:52 | 49.54 | 48.24 | 558 | 1.74 | 1.25 | 30.5 |
| 4/27/2015 14:02:53 | 49.87 | 48.57 | 548 | 1.77 | 1.20 | 29.9 |
| 4/27/2015 14:02:54 | 50.20 | 48.90 | 458 | 1.75 | 1.06 | 25.1 |
| 4/27/2015 14:02:54 | 50.53 | 49.23 | 437 | 1.76 | 0.98 | 23.9 |
| 4/27/2015 14:02:55 | 50.85 | 49.55 | 473 | 1.81 | 1.13 | 25.8 |
| 4/27/2015 14:02:55 | 51.18 | 49.88 | 473 | 1.75 | 1.01 | 25.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:02:56 | 51.51 | 50.21 | 473 | 1.75 | 1.01 | 25.8 |
| 4/27/2015 | 14:02:56 | 51.84 | 50.54 | 609 | 1.77 | 0.94 | 33.3 |
| 4/27/2015 | 14:02:56 | 52.17 | 50.87 | 740 | 1.77 | 0.95 | 40.5 |
| 4/27/2015 | 14:02:57 | 52.49 | 51.19 | 774 | 1.73 | 1.15 | 42.3 |
| 4/27/2015 | 14:02:58 | 52.82 | 51.52 | 696 | 1.68 | 1.18 | 38.1 |
| 4/27/2015 | 14:02:59 | 53.15 | 51.85 | 484 | 1.75 | 1.30 | 26.4 |
| 4/27/2015 | 14:03:00 | 53.48 | 52.18 | 388 | 1.76 | 1.15 | 21.2 |
| 4/27/2015 | 14:03:01 | 53.81 | 52.51 | 361 | 1.75 | 1.19 | 19.7 |
| 4/27/2015 | 14:03:01 | 54.13 | 52.83 | 406 | 1.74 | 1.13 | 22.2 |
| 4/27/2015 | 14:03:02 | 54.46 | 53.16 | 434 | 1.76 | 1.01 | 23.7 |
| 4/27/2015 | 14:03:03 | 54.79 | 53.49 | 503 | 1.76 | 0.89 | 27.5 |
| 4/27/2015 | 14:03:03 | 55.12 | 53.82 | 503 | 1.78 | 0.91 | 27.5 |
| 4/27/2015 | 14:03:04 | 55.45 | 54.15 | 627 | 1.74 | 0.90 | 34.3 |
| 4/27/2015 | 14:03:04 | 55.77 | 54.47 | 701 | 1.78 | 0.93 | 38.3 |
| 4/27/2015 | 14:03:05 | 56.10 | 54.80 | 749 | 1.73 | 1.03 | 40.9 |
| 4/27/2015 | 14:03:05 | 56.43 | 55.13 | 731 | 1.74 | 1.12 | 40.0 |
| 4/27/2015 | 14:03:06 | 56.55 | 55.25 | 652 | 1.34 | 1.08 | 35.7 |

## I108 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:00:38

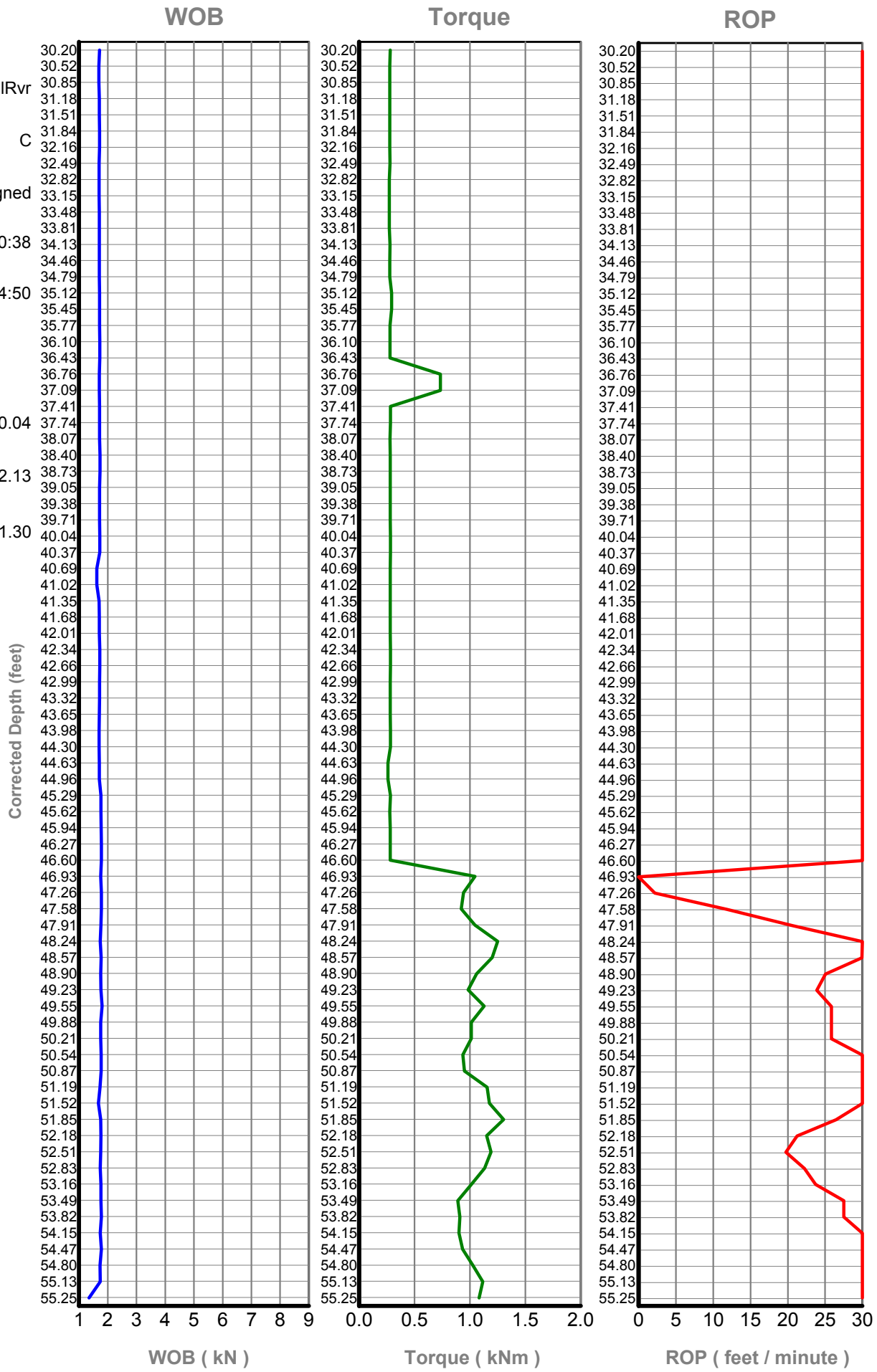
**End Date:**
4/27/2015 14:04:50

**Operator Note:**
'1.3 1.4 C Auto Complete'

**Northing:**
364,550.04

**Easting:**
248,742.13

**Tide (feet):**
1.30



## Hole: I109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:38:26 | 32.48 | 30.28 | 766 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:27 | 32.81 | 30.61 | 769 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 2:38:27 | 33.14 | 30.94 | 767 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:28 | 33.46 | 31.26 | 767 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:28 | 33.79 | 31.59 | 778 | 1.05 | 0.18 | 42.5 |
| 4/29/2015 2:38:28 | 34.12 | 31.92 | 775 | 1.04 | 0.18 | 42.4 |
| 4/29/2015 2:38:29 | 34.45 | 32.25 | 775 | 1.04 | 0.18 | 42.4 |
| 4/29/2015 2:38:29 | 34.78 | 32.58 | 772 | 1.05 | 0.18 | 42.2 |
| 4/29/2015 2:38:30 | 35.11 | 32.91 | 780 | 1.04 | 0.18 | 42.6 |
| 4/29/2015 2:38:30 | 35.43 | 33.23 | 769 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 2:38:31 | 35.76 | 33.56 | 769 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 2:38:31 | 36.09 | 33.89 | 767 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:32 | 36.42 | 34.22 | 767 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:32 | 36.75 | 34.55 | 775 | 1.04 | 0.18 | 42.4 |
| 4/29/2015 2:38:32 | 37.07 | 34.87 | 767 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 2:38:33 | 37.40 | 35.20 | 775 | 1.04 | 0.18 | 42.4 |
| 4/29/2015 2:38:33 | 37.73 | 35.53 | 775 | 1.04 | 0.18 | 42.4 |
| 4/29/2015 2:38:34 | 38.06 | 35.86 | 765 | 1.03 | 0.18 | 41.8 |
| 4/29/2015 2:38:34 | 38.39 | 36.19 | 765 | 1.05 | 0.18 | 41.8 |
| 4/29/2015 2:38:35 | 38.71 | 36.51 | 767 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:35 | 39.04 | 36.84 | 770 | 1.05 | 0.18 | 42.1 |
| 4/29/2015 2:38:36 | 39.37 | 37.17 | 770 | 1.05 | 0.18 | 42.1 |
| 4/29/2015 2:38:36 | 39.70 | 37.50 | 765 | 1.02 | 0.18 | 41.8 |
| 4/29/2015 2:38:36 | 40.03 | 37.83 | 774 | 1.04 | 0.18 | 42.3 |
| 4/29/2015 2:38:37 | 40.35 | 38.15 | 785 | 1.05 | 0.18 | 42.9 |
| 4/29/2015 2:38:38 | 40.68 | 38.48 | 771 | 1.06 | 0.16 | 42.1 |
| 4/29/2015 2:38:38 | 41.01 | 38.81 | 780 | 1.04 | 0.18 | 42.7 |
| 4/29/2015 2:38:39 | 41.34 | 39.14 | 775 | 1.06 | 0.18 | 42.4 |
| 4/29/2015 2:38:39 | 41.67 | 39.47 | 765 | 1.04 | 0.18 | 41.8 |
| 4/29/2015 2:38:40 | 41.99 | 39.79 | 762 | 1.04 | 0.18 | 41.7 |
| 4/29/2015 2:38:40 | 42.32 | 40.12 | 762 | 1.04 | 0.18 | 41.7 |
| 4/29/2015 2:38:40 | 42.65 | 40.45 | 774 | 1.03 | 0.18 | 42.3 |
| 4/29/2015 2:38:41 | 42.98 | 40.78 | 766 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:41 | 43.31 | 41.11 | 769 | 1.04 | 0.18 | 42.1 |
| 4/29/2015 2:38:42 | 43.64 | 41.44 | 769 | 1.05 | 0.18 | 42.1 |
| 4/29/2015 2:38:42 | 43.96 | 41.76 | 777 | 1.04 | 0.18 | 42.5 |
| 4/29/2015 2:38:43 | 44.29 | 42.09 | 769 | 1.05 | 0.19 | 42.1 |
| 4/29/2015 2:38:43 | 44.62 | 42.42 | 764 | 1.03 | 0.18 | 41.8 |
| 4/29/2015 2:38:44 | 44.95 | 42.75 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:44 | 45.28 | 43.08 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:44 | 45.60 | 43.40 | 769 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 2:38:45 | 45.93 | 43.73 | 766 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:45 | 46.26 | 44.06 | 763 | 1.05 | 0.18 | 41.7 |
| 4/29/2015 2:38:46 | 46.59 | 44.39 | 763 | 1.03 | 0.18 | 41.7 |
| 4/29/2015 2:38:46 | 46.92 | 44.72 | 766 | 1.05 | 0.18 | 41.9 |
| 4/29/2015 2:38:47 | 47.24 | 45.04 | 763 | 1.03 | 0.18 | 41.7 |
| 4/29/2015 2:38:48 | 47.57 | 45.37 | 760 | 1.04 | 0.18 | 41.6 |
| 4/29/2015 2:38:48 | 47.90 | 45.70 | 763 | 1.05 | 0.18 | 41.7 |
| 4/29/2015 2:38:49 | 48.23 | 46.03 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:49 | 48.56 | 46.36 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:38:49 | 48.88 | 46.68 | 763 | 1.05 | 0.18 | 41.7 |
| 4/29/2015 2:38:50 | 49.21 | 47.01 | 763 | 1.05 | 0.18 | 41.7 |
| 4/29/2015 2:38:50 | 49.54 | 47.34 | 739 | 1.06 | 0.18 | 40.4 |
| 4/29/2015 2:38:51 | 49.87 | 47.67 | 712 | 1.07 | 0.18 | 38.9 |
| 4/29/2015 2:38:52 | 50.20 | 48.00 | 661 | 1.09 | 0.18 | 36.1 |
| 4/29/2015 2:38:52 | 50.53 | 48.33 | 611 | 1.09 | 0.18 | 33.4 |
| 4/29/2015 2:38:53 | 50.85 | 48.65 | 515 | 1.09 | 0.18 | 28.2 |
| 4/29/2015 2:39:26 | 51.18 | 48.98 | 0 | 1.84 | 1.44 | 0.0 |
| 4/29/2015 2:39:26 | 51.51 | 49.31 | 54 | 2.04 | 1.40 | 3.0 |
| 4/29/2015 2:39:30 | 51.84 | 49.64 | 69 | 1.11 | 1.30 | 3.7 |
| 4/29/2015 2:39:32 | 52.17 | 49.97 | 166 | 1.09 | 1.37 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:39:35 | 52.49 | 50.29 | 123 | 0.99 | 1.02 | 6.7 |
| 4/29/2015 | 2:39:36 | 52.82 | 50.62 | 200 | 1.07 | 1.10 | 10.9 |
| 4/29/2015 | 2:39:37 | 53.15 | 50.95 | 285 | 1.05 | 1.25 | 15.6 |
| 4/29/2015 | 2:39:55 | 53.48 | 51.28 | 86 | 0.98 | 1.27 | 4.7 |
| 4/29/2015 | 2:39:55 | 53.81 | 51.61 | 152 | 1.04 | 0.97 | 8.3 |
| 4/29/2015 | 2:39:56 | 54.13 | 51.93 | 312 | 1.05 | 0.93 | 17.0 |
| 4/29/2015 | 2:39:57 | 54.46 | 52.26 | 368 | 1.06 | 0.90 | 20.1 |
| 4/29/2015 | 2:40:08 | 54.79 | 52.59 | 0 | 1.26 | 1.07 | 0.0 |
| 4/29/2015 | 2:40:11 | 55.12 | 52.92 | 71 | 1.04 | 1.09 | 3.9 |
| 4/29/2015 | 2:40:15 | 55.45 | 53.25 | 82 | 1.07 | 1.08 | 4.5 |
| 4/29/2015 | 2:40:29 | 55.77 | 53.57 | 23 | 0.99 | 0.88 | 1.3 |
| 4/29/2015 | 2:40:34 | 56.10 | 53.90 | 75 | 1.02 | 0.94 | 4.1 |
| 4/29/2015 | 2:40:41 | 56.43 | 54.23 | 54 | 1.02 | 1.00 | 3.0 |
| 4/29/2015 | 2:40:46 | 56.76 | 54.56 | 63 | 1.02 | 0.91 | 3.5 |
| 4/29/2015 | 2:40:52 | 57.09 | 54.89 | 55 | 1.08 | 1.02 | 3.0 |
| 4/29/2015 | 2:40:58 | 57.39 | 55.19 | 52 | 1.08 | 1.27 | 2.8 |

## I109 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:35:53

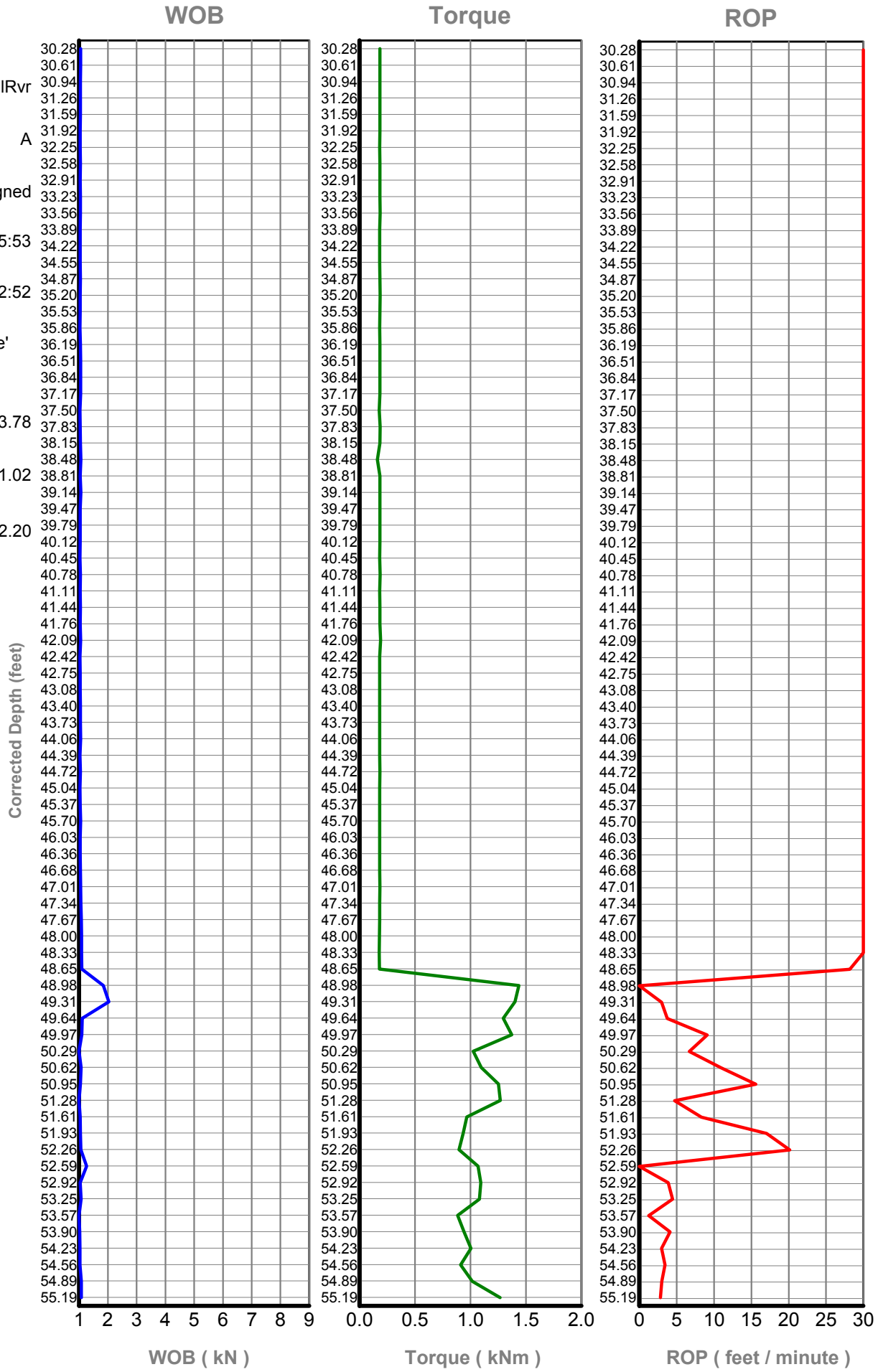
**End Date:**
4/29/2015 2:42:52

**Operator Note:**
'2.2 2.4 b Auto Complete'

**Northing:**
363,973.78

**Easting:**
248,141.02

**Tide (feet):**
2.20



## Hole: I11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:57:07 | 30.84 | 30.14 | 1,124 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 15:57:07 | 31.17 | 30.47 | 1,115 | 0.27 | 0.31 | 61.0 |
| 4/27/2015 15:57:08 | 31.50 | 30.80 | 1,115 | 0.27 | 0.31 | 61.0 |
| 4/27/2015 15:57:08 | 31.82 | 31.12 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/27/2015 15:57:09 | 32.15 | 31.45 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/27/2015 15:57:08 | 32.48 | 31.78 | 1,097 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 15:57:09 | 32.81 | 32.11 | 1,097 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 15:57:10 | 33.14 | 32.44 | 1,097 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 15:57:10 | 33.46 | 32.76 | 1,107 | 0.27 | 0.31 | 60.5 |
| 4/27/2015 15:57:10 | 33.79 | 33.09 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 15:57:11 | 34.12 | 33.42 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 15:57:11 | 34.45 | 33.75 | 1,114 | 0.20 | 0.33 | 60.9 |
| 4/27/2015 15:57:11 | 34.78 | 34.08 | 1,114 | 0.20 | 0.33 | 60.9 |
| 4/27/2015 15:57:11 | 35.11 | 34.41 | 1,113 | 0.27 | 0.31 | 60.9 |
| 4/27/2015 15:57:12 | 35.43 | 34.73 | 1,132 | 0.27 | 0.32 | 61.9 |
| 4/27/2015 15:57:12 | 35.76 | 35.06 | 1,132 | 0.27 | 0.32 | 61.9 |
| 4/27/2015 15:57:12 | 36.09 | 35.39 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 15:57:13 | 36.42 | 35.72 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 15:57:13 | 36.75 | 36.05 | 1,109 | 0.27 | 0.31 | 60.6 |
| 4/27/2015 15:57:13 | 37.07 | 36.37 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 15:57:14 | 37.40 | 36.70 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 15:57:14 | 37.73 | 37.03 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 15:57:14 | 38.06 | 37.36 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 15:57:15 | 38.39 | 37.69 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 15:57:15 | 38.71 | 38.01 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 15:57:15 | 39.04 | 38.34 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 15:57:15 | 39.37 | 38.67 | 1,109 | 0.27 | 0.31 | 60.7 |
| 4/27/2015 15:57:16 | 39.70 | 39.00 | 1,114 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 15:57:16 | 40.03 | 39.33 | 1,114 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 15:57:16 | 40.35 | 39.65 | 1,114 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:17 | 40.68 | 39.98 | 1,114 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:17 | 41.01 | 40.31 | 1,107 | 0.27 | 0.32 | 60.5 |
| 4/27/2015 15:57:17 | 41.34 | 40.64 | 1,114 | 0.27 | 0.33 | 60.9 |
| 4/27/2015 15:57:18 | 41.67 | 40.97 | 1,114 | 0.27 | 0.33 | 60.9 |
| 4/27/2015 15:57:18 | 41.99 | 41.29 | 1,117 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 15:57:18 | 42.32 | 41.62 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:19 | 42.65 | 41.95 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:19 | 42.98 | 42.28 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:20 | 43.31 | 42.61 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 15:57:20 | 43.64 | 42.94 | 1,122 | 0.32 | 0.32 | 61.4 |
| 4/27/2015 15:57:20 | 43.96 | 43.26 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/27/2015 15:57:21 | 44.29 | 43.59 | 1,104 | 0.29 | 0.31 | 60.4 |
| 4/27/2015 15:57:21 | 44.62 | 43.92 | 1,114 | 0.31 | 0.32 | 60.9 |
| 4/27/2015 15:57:21 | 44.95 | 44.25 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 15:57:22 | 45.28 | 44.58 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 15:57:22 | 45.60 | 44.90 | 1,109 | 0.28 | 0.32 | 60.6 |
| 4/27/2015 15:57:22 | 45.93 | 45.23 | 1,109 | 0.28 | 0.32 | 60.6 |
| 4/27/2015 15:57:22 | 46.26 | 45.56 | 1,096 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 15:57:23 | 46.59 | 45.89 | 1,091 | 0.26 | 0.37 | 59.7 |
| 4/27/2015 15:57:33 | 46.92 | 46.22 | 21 | 4.39 | 0.38 | 1.1 |
| 4/27/2015 15:57:34 | 47.24 | 46.54 | 135 | 4.36 | 0.38 | 7.4 |
| 4/27/2015 15:57:35 | 47.57 | 46.87 | 249 | 4.64 | 0.40 | 13.6 |
| 4/27/2015 15:57:36 | 47.90 | 47.20 | 337 | 3.39 | 0.39 | 18.4 |
| 4/27/2015 15:57:39 | 48.23 | 47.53 | 159 | 3.32 | 0.40 | 8.7 |
| 4/27/2015 15:57:43 | 48.56 | 47.86 | 93 | 2.88 | 0.40 | 5.1 |
| 4/27/2015 15:57:46 | 48.88 | 48.18 | 87 | 3.11 | 0.39 | 4.7 |
| 4/27/2015 15:57:48 | 49.21 | 48.51 | 171 | 4.89 | 0.39 | 9.3 |
| 4/27/2015 15:58:04 | 49.54 | 48.84 | 98 | 3.52 | 0.39 | 5.4 |
| 4/27/2015 15:58:06 | 49.87 | 49.17 | 142 | 3.61 | 0.40 | 7.7 |
| 4/27/2015 15:58:09 | 50.20 | 49.50 | 133 | 3.69 | 0.39 | 7.3 |
| 4/27/2015 15:58:28 | 50.53 | 49.83 | 79 | 3.67 | 0.39 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:58:30 | 50.85 | 50.15 | 135 | 3.63 | 0.39 | 7.4 |
| 4/27/2015 | 15:58:34 | 51.18 | 50.48 | 102 | 3.22 | 0.40 | 5.6 |
| 4/27/2015 | 15:58:37 | 51.51 | 50.81 | 115 | 3.35 | 0.40 | 6.3 |
| 4/27/2015 | 15:58:40 | 51.84 | 51.14 | 116 | 3.36 | 0.38 | 6.3 |
| 4/27/2015 | 15:58:50 | 52.17 | 51.47 | 60 | 3.18 | 0.38 | 3.3 |
| 4/27/2015 | 15:58:51 | 52.49 | 51.79 | 156 | 3.70 | 0.39 | 8.5 |
| 4/27/2015 | 15:58:53 | 52.82 | 52.12 | 221 | 4.14 | 0.38 | 12.1 |
| 4/27/2015 | 15:59:09 | 53.15 | 52.45 | 79 | 4.18 | 0.39 | 4.3 |
| 4/27/2015 | 15:59:34 | 53.48 | 52.78 | 78 | 3.24 | 0.40 | 4.3 |
| 4/27/2015 | 15:59:37 | 53.81 | 53.11 | 104 | 3.39 | 0.40 | 5.7 |
| 4/27/2015 | 15:59:40 | 54.13 | 53.43 | 109 | 3.17 | 0.40 | 6.0 |
| 4/27/2015 | 15:59:44 | 54.46 | 53.76 | 98 | 3.22 | 0.40 | 5.4 |
| 4/27/2015 | 15:59:48 | 54.79 | 54.09 | 84 | 3.14 | 0.40 | 4.6 |
| 4/27/2015 | 15:59:54 | 55.12 | 54.42 | 64 | 2.76 | 0.40 | 3.5 |
| 4/27/2015 | 15:59:59 | 55.45 | 54.75 | 69 | 3.07 | 0.40 | 3.8 |
| 4/27/2015 | 16:00:01 | 55.62 | 54.92 | 73 | 3.05 | 0.40 | 4.0 |

## I11 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:55:14

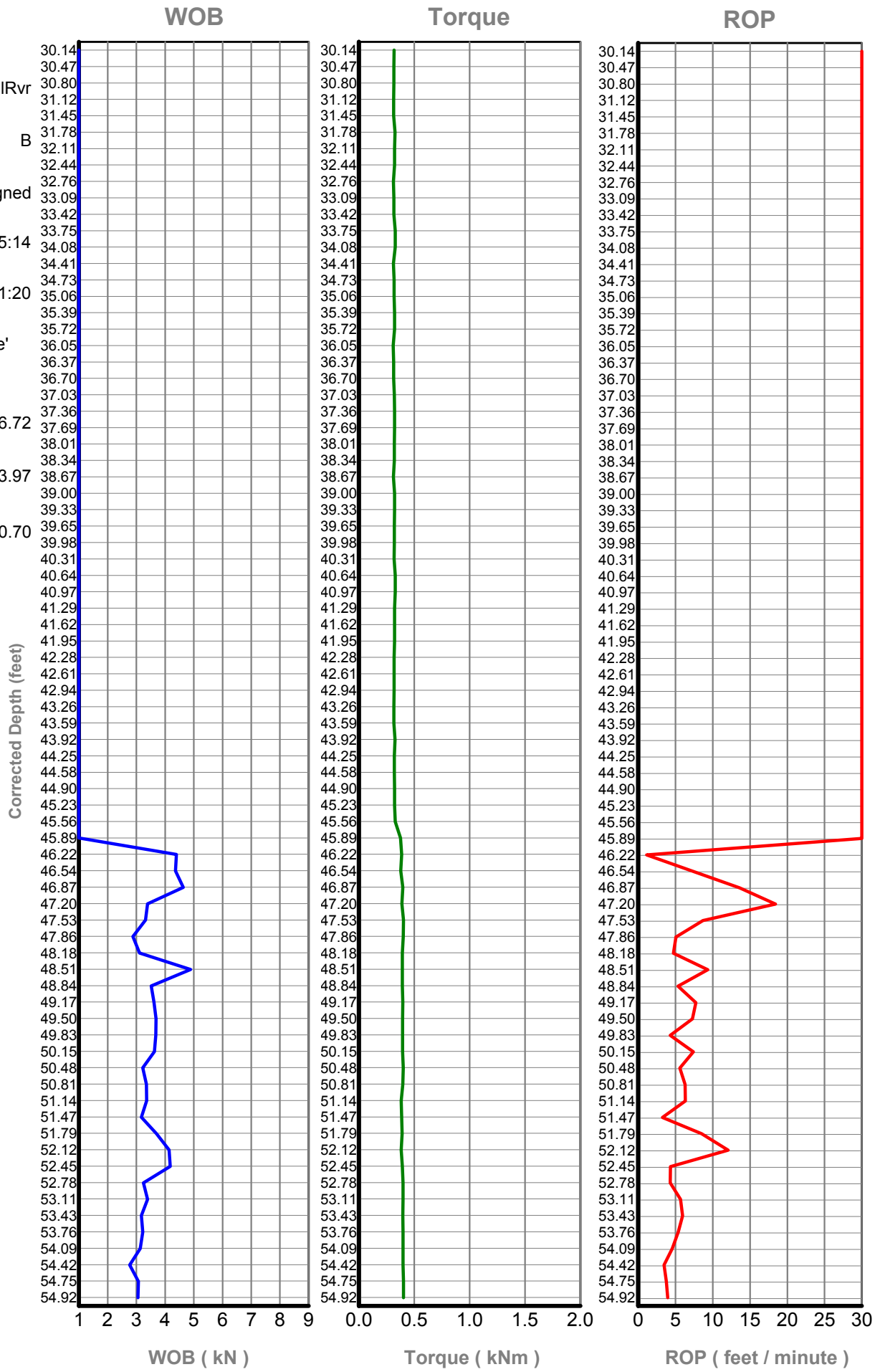
**End Date:**
4/27/2015 16:01:20

**Operator Note:**
'0.7 0.6 b Auto Complete'

**Northing:**
364,836.72

**Easting:**
248,133.97

**Tide (feet):**
0.70



## Hole: I110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:38:20 | 32.48 | 30.28 | 1,151 | 0.28 | 0.36 | 62.9 |
| 4/29/2015 2:38:20 | 32.81 | 30.61 | 1,158 | 0.29 | 0.36 | 63.3 |
| 4/29/2015 2:38:21 | 33.14 | 30.94 | 1,134 | 0.28 | 0.37 | 62.0 |
| 4/29/2015 2:38:21 | 33.46 | 31.26 | 1,134 | 0.28 | 0.37 | 62.0 |
| 4/29/2015 2:38:21 | 33.79 | 31.59 | 1,139 | 0.28 | 0.36 | 62.3 |
| 4/29/2015 2:38:21 | 34.12 | 31.92 | 1,139 | 0.28 | 0.36 | 62.3 |
| 4/29/2015 2:38:22 | 34.45 | 32.25 | 1,139 | 0.29 | 0.36 | 62.3 |
| 4/29/2015 2:38:22 | 34.78 | 32.58 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/29/2015 2:38:23 | 35.11 | 32.91 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/29/2015 2:38:23 | 35.43 | 33.23 | 1,139 | 0.29 | 0.36 | 62.3 |
| 4/29/2015 2:38:23 | 35.76 | 33.56 | 1,139 | 0.29 | 0.36 | 62.3 |
| 4/29/2015 2:38:23 | 36.09 | 33.89 | 1,139 | 0.28 | 0.36 | 62.3 |
| 4/29/2015 2:38:24 | 36.42 | 34.22 | 1,139 | 0.28 | 0.36 | 62.3 |
| 4/29/2015 2:38:24 | 36.75 | 34.55 | 1,142 | 0.28 | 0.37 | 62.4 |
| 4/29/2015 2:38:24 | 37.07 | 34.87 | 1,159 | 0.29 | 0.36 | 63.4 |
| 4/29/2015 2:38:25 | 37.40 | 35.20 | 1,159 | 0.29 | 0.36 | 63.4 |
| 4/29/2015 2:38:25 | 37.73 | 35.53 | 1,128 | 0.29 | 0.37 | 61.7 |
| 4/29/2015 2:38:25 | 38.06 | 35.86 | 1,128 | 0.29 | 0.37 | 61.7 |
| 4/29/2015 2:38:25 | 38.39 | 36.19 | 1,128 | 0.28 | 0.37 | 61.7 |
| 4/29/2015 2:38:26 | 38.71 | 36.51 | 1,136 | 0.29 | 0.36 | 62.1 |
| 4/29/2015 2:38:26 | 39.04 | 36.84 | 1,136 | 0.29 | 0.36 | 62.1 |
| 4/29/2015 2:38:26 | 39.37 | 37.17 | 1,136 | 0.28 | 0.37 | 62.1 |
| 4/29/2015 2:38:27 | 39.70 | 37.50 | 1,136 | 0.28 | 0.37 | 62.1 |
| 4/29/2015 2:38:27 | 40.03 | 37.83 | 1,146 | 0.28 | 0.37 | 62.7 |
| 4/29/2015 2:38:27 | 40.35 | 38.15 | 1,146 | 0.29 | 0.36 | 62.7 |
| 4/29/2015 2:38:28 | 40.68 | 38.48 | 1,146 | 0.29 | 0.36 | 62.7 |
| 4/29/2015 2:38:28 | 41.01 | 38.81 | 1,147 | 0.29 | 0.36 | 62.7 |
| 4/29/2015 2:38:28 | 41.34 | 39.14 | 1,147 | 0.29 | 0.36 | 62.7 |
| 4/29/2015 2:38:28 | 41.67 | 39.47 | 1,141 | 0.29 | 0.36 | 62.4 |
| 4/29/2015 2:38:29 | 41.99 | 39.79 | 1,141 | 0.29 | 0.36 | 62.4 |
| 4/29/2015 2:38:29 | 42.32 | 40.12 | 1,141 | 0.29 | 0.36 | 62.4 |
| 4/29/2015 2:38:29 | 42.65 | 40.45 | 1,163 | 0.28 | 0.37 | 63.6 |
| 4/29/2015 2:38:30 | 42.98 | 40.78 | 1,163 | 0.28 | 0.37 | 63.6 |
| 4/29/2015 2:38:30 | 43.31 | 41.11 | 1,163 | 0.28 | 0.37 | 63.6 |
| 4/29/2015 2:38:31 | 43.64 | 41.44 | 1,163 | 0.28 | 0.37 | 63.6 |
| 4/29/2015 2:38:31 | 43.96 | 41.76 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 2:38:31 | 44.29 | 42.09 | 1,169 | 0.28 | 0.37 | 63.9 |
| 4/29/2015 2:38:32 | 44.62 | 42.42 | 1,169 | 0.28 | 0.37 | 63.9 |
| 4/29/2015 2:38:32 | 44.95 | 42.75 | 1,162 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 2:38:32 | 45.28 | 43.08 | 1,162 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 2:38:32 | 45.60 | 43.40 | 1,175 | 0.29 | 0.37 | 64.2 |
| 4/29/2015 2:38:33 | 45.93 | 43.73 | 1,173 | 0.28 | 0.37 | 64.1 |
| 4/29/2015 2:38:33 | 46.26 | 44.06 | 1,173 | 0.28 | 0.37 | 64.1 |
| 4/29/2015 2:38:33 | 46.59 | 44.39 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/29/2015 2:38:34 | 46.92 | 44.72 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/29/2015 2:38:34 | 47.24 | 45.04 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/29/2015 2:38:34 | 47.57 | 45.37 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/29/2015 2:38:34 | 47.90 | 45.70 | 1,174 | 0.27 | 0.41 | 64.2 |
| 4/29/2015 2:38:42 | 48.23 | 46.03 | 40 | 4.78 | 0.46 | 2.2 |
| 4/29/2015 2:38:46 | 48.56 | 46.36 | 106 | 3.98 | 0.42 | 5.8 |
| 4/29/2015 2:38:46 | 48.88 | 46.68 | 197 | 4.04 | 0.43 | 10.8 |
| 4/29/2015 2:38:47 | 49.21 | 47.01 | 363 | 4.07 | 0.42 | 19.8 |
| 4/29/2015 2:38:48 | 49.54 | 47.34 | 471 | 3.61 | 0.42 | 25.8 |
| 4/29/2015 2:38:58 | 49.87 | 47.67 | 61 | 4.07 | 0.43 | 3.3 |
| 4/29/2015 2:39:12 | 50.20 | 48.00 | 76 | 3.20 | 0.41 | 4.1 |
| 4/29/2015 2:39:13 | 50.53 | 48.33 | 213 | 2.92 | 0.44 | 11.6 |
| 4/29/2015 2:39:15 | 50.85 | 48.65 | 278 | 2.29 | 0.41 | 15.2 |
| 4/29/2015 2:39:15 | 51.18 | 48.98 | 293 | 2.33 | 0.41 | 16.0 |
| 4/29/2015 2:39:16 | 51.51 | 49.31 | 330 | 2.59 | 0.43 | 18.0 |
| 4/29/2015 2:39:18 | 51.84 | 49.64 | 389 | 2.44 | 0.43 | 21.3 |
| 4/29/2015 2:39:18 | 52.17 | 49.97 | 395 | 2.52 | 0.44 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:39:20 | 52.49 | 50.29 | 265 | 2.81 | 0.45 | 14.5 |
| 4/29/2015 | 2:39:29 | 52.82 | 50.62 | 75 | 3.16 | 0.46 | 4.1 |
| 4/29/2015 | 2:39:35 | 53.15 | 50.95 | 57 | 4.39 | 0.46 | 3.1 |
| 4/29/2015 | 2:39:41 | 53.48 | 51.28 | 58 | 3.50 | 0.47 | 3.2 |
| 4/29/2015 | 2:40:01 | 53.81 | 51.61 | 38 | 2.79 | 0.44 | 2.1 |
| 4/29/2015 | 2:40:03 | 54.13 | 51.93 | 113 | 3.03 | 0.45 | 6.2 |
| 4/29/2015 | 2:40:06 | 54.46 | 52.26 | 147 | 2.53 | 0.45 | 8.0 |
| 4/29/2015 | 2:40:10 | 54.79 | 52.59 | 91 | 2.73 | 0.45 | 5.0 |
| 4/29/2015 | 2:40:14 | 55.12 | 52.92 | 81 | 2.54 | 0.44 | 4.5 |
| 4/29/2015 | 2:40:18 | 55.45 | 53.25 | 87 | 2.60 | 0.45 | 4.8 |
| 4/29/2015 | 2:40:22 | 55.77 | 53.57 | 101 | 2.48 | 0.45 | 5.5 |
| 4/29/2015 | 2:40:25 | 56.10 | 53.90 | 133 | 2.80 | 0.45 | 7.3 |
| 4/29/2015 | 2:40:27 | 56.43 | 54.23 | 165 | 3.05 | 0.44 | 9.0 |
| 4/29/2015 | 2:40:29 | 56.76 | 54.56 | 171 | 3.16 | 0.45 | 9.3 |
| 4/29/2015 | 2:40:39 | 57.09 | 54.89 | 63 | 2.85 | 0.46 | 3.4 |
| 4/29/2015 | 2:40:46 | 57.41 | 55.21 | 38 | 3.88 | 0.47 | 2.1 |

## I110 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:36:54

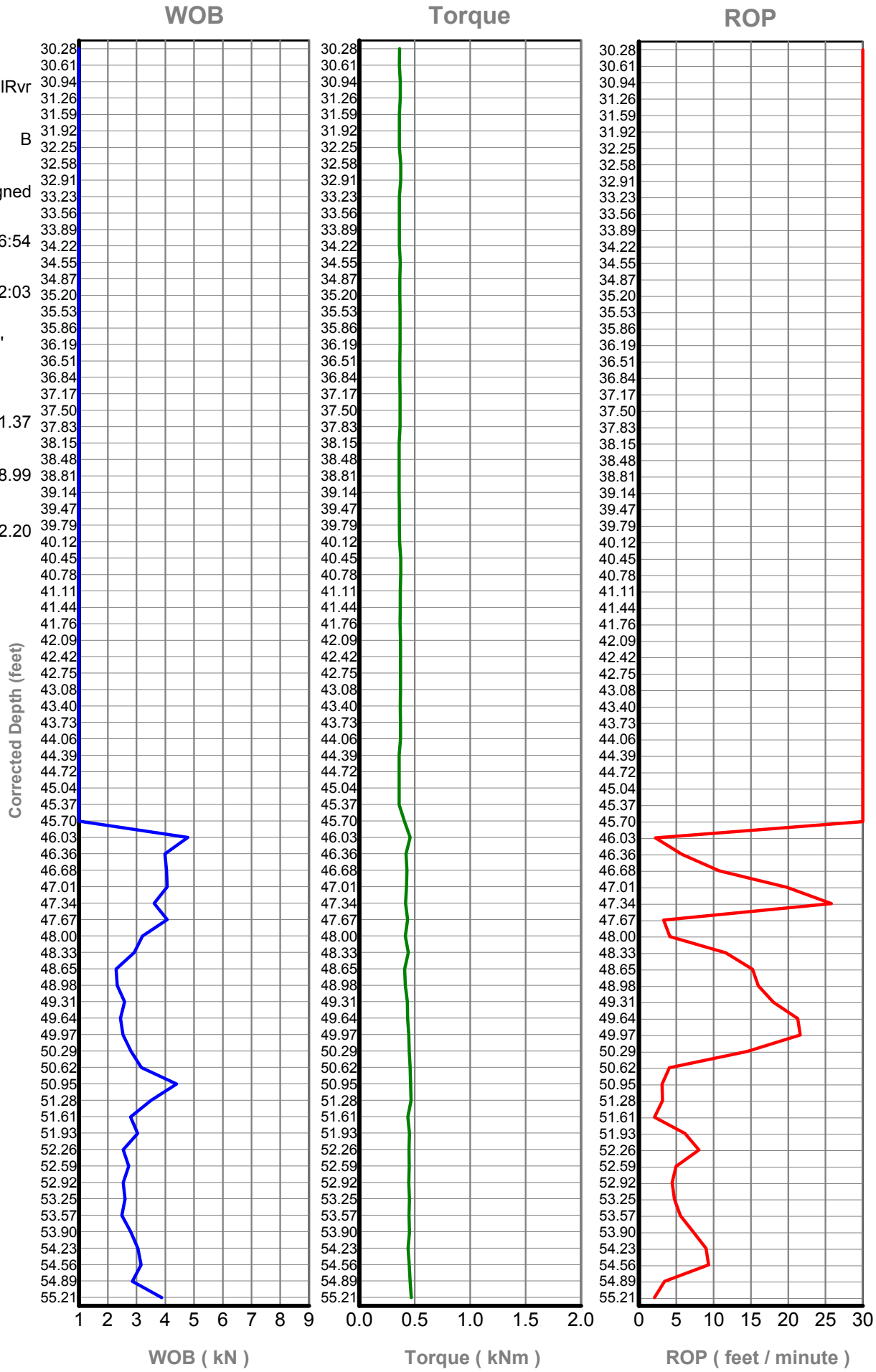
**End Date:**
4/29/2015 2:42:03

**Operator Note:**
'2.2 2.4b Auto Complete'

**Northing:**
364,021.37

**Easting:**
248,198.99

**Tide (feet):**
2.20



## Hole: I111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:37:41 | 32.48 | 30.28 | 1,123 | 1.58 | 0.14 | 61.4 |
| 4/29/2015 2:37:41 | 32.81 | 30.61 | 1,123 | 1.58 | 0.14 | 61.4 |
| 4/29/2015 2:37:41 | 33.14 | 30.94 | 1,120 | 1.57 | 0.14 | 61.3 |
| 4/29/2015 2:37:42 | 33.46 | 31.26 | 1,120 | 1.57 | 0.14 | 61.3 |
| 4/29/2015 2:37:42 | 33.79 | 31.59 | 1,124 | 1.59 | 0.14 | 61.5 |
| 4/29/2015 2:37:42 | 34.12 | 31.92 | 1,119 | 1.57 | 0.14 | 61.2 |
| 4/29/2015 2:37:43 | 34.45 | 32.25 | 1,119 | 1.57 | 0.14 | 61.2 |
| 4/29/2015 2:37:43 | 34.78 | 32.58 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 2:37:43 | 35.11 | 32.91 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 2:37:43 | 35.43 | 33.23 | 1,119 | 1.57 | 0.14 | 61.2 |
| 4/29/2015 2:37:44 | 35.76 | 33.56 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 2:37:44 | 36.09 | 33.89 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 2:37:44 | 36.42 | 34.22 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 2:37:45 | 36.75 | 34.55 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 2:37:45 | 37.07 | 34.87 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 2:37:45 | 37.40 | 35.20 | 1,107 | 1.57 | 0.14 | 60.5 |
| 4/29/2015 2:37:46 | 37.73 | 35.53 | 1,107 | 1.57 | 0.14 | 60.5 |
| 4/29/2015 2:37:46 | 38.06 | 35.86 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 2:37:46 | 38.39 | 36.19 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 2:37:47 | 38.71 | 36.51 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 2:37:47 | 39.04 | 36.84 | 1,107 | 1.58 | 0.14 | 60.5 |
| 4/29/2015 2:37:47 | 39.37 | 37.17 | 1,107 | 1.58 | 0.14 | 60.5 |
| 4/29/2015 2:37:47 | 39.70 | 37.50 | 1,110 | 1.59 | 0.14 | 60.7 |
| 4/29/2015 2:37:48 | 40.03 | 37.83 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 2:37:48 | 40.35 | 38.15 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 2:37:48 | 40.68 | 38.48 | 1,110 | 1.55 | 0.14 | 60.7 |
| 4/29/2015 2:37:49 | 41.01 | 38.81 | 1,107 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 2:37:49 | 41.34 | 39.14 | 1,107 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 2:37:49 | 41.67 | 39.47 | 1,107 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 2:37:50 | 41.99 | 39.79 | 1,107 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 2:37:50 | 42.32 | 40.12 | 1,113 | 1.58 | 0.14 | 60.9 |
| 4/29/2015 2:37:51 | 42.65 | 40.45 | 1,107 | 1.61 | 0.14 | 60.5 |
| 4/29/2015 2:37:51 | 42.98 | 40.78 | 1,107 | 1.61 | 0.14 | 60.5 |
| 4/29/2015 2:37:51 | 43.31 | 41.11 | 1,107 | 1.58 | 0.14 | 60.5 |
| 4/29/2015 2:37:52 | 43.64 | 41.44 | 1,104 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 2:37:52 | 43.96 | 41.76 | 1,104 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 2:37:52 | 44.29 | 42.09 | 1,107 | 1.57 | 0.14 | 60.5 |
| 4/29/2015 2:37:53 | 44.62 | 42.42 | 1,107 | 1.57 | 0.14 | 60.5 |
| 4/29/2015 2:37:53 | 44.95 | 42.75 | 1,101 | 1.59 | 0.14 | 60.2 |
| 4/29/2015 2:37:53 | 45.28 | 43.08 | 1,101 | 1.58 | 0.14 | 60.2 |
| 4/29/2015 2:37:54 | 45.60 | 43.40 | 1,101 | 1.58 | 0.14 | 60.2 |
| 4/29/2015 2:37:54 | 45.93 | 43.73 | 1,095 | 1.59 | 0.14 | 59.9 |
| 4/29/2015 2:37:54 | 46.26 | 44.06 | 1,104 | 1.60 | 0.14 | 60.4 |
| 4/29/2015 2:37:55 | 46.59 | 44.39 | 1,104 | 1.60 | 0.14 | 60.4 |
| 4/29/2015 2:37:55 | 46.92 | 44.72 | 1,098 | 1.62 | 0.14 | 60.1 |
| 4/29/2015 2:37:55 | 47.24 | 45.04 | 1,098 | 1.62 | 0.14 | 60.1 |
| 4/29/2015 2:37:55 | 47.57 | 45.37 | 1,098 | 1.77 | 0.14 | 60.1 |
| 4/29/2015 2:38:05 | 47.90 | 45.70 | 40 | 1.70 | 1.10 | 2.2 |
| 4/29/2015 2:38:09 | 48.23 | 46.03 | 71 | 1.66 | 1.18 | 3.9 |
| 4/29/2015 2:38:17 | 48.56 | 46.36 | 0 | 1.63 | 1.20 | 0.0 |
| 4/29/2015 2:38:18 | 48.88 | 46.68 | 156 | 1.69 | 1.12 | 8.5 |
| 4/29/2015 2:38:19 | 49.21 | 47.01 | 272 | 1.64 | 1.29 | 14.9 |
| 4/29/2015 2:38:26 | 49.54 | 47.34 | 54 | 1.64 | 1.20 | 3.0 |
| 4/29/2015 2:38:28 | 49.87 | 47.67 | 185 | 1.66 | 1.07 | 10.1 |
| 4/29/2015 2:38:35 | 50.20 | 48.00 | 49 | 1.66 | 1.33 | 2.7 |
| 4/29/2015 2:38:40 | 50.53 | 48.33 | 78 | 1.70 | 1.26 | 4.3 |
| 4/29/2015 2:38:46 | 50.85 | 48.65 | 49 | 1.70 | 1.33 | 2.7 |
| 4/29/2015 2:38:49 | 51.02 | 48.82 | 58 | 1.68 | 1.34 | 3.2 |

## I111 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:36:19

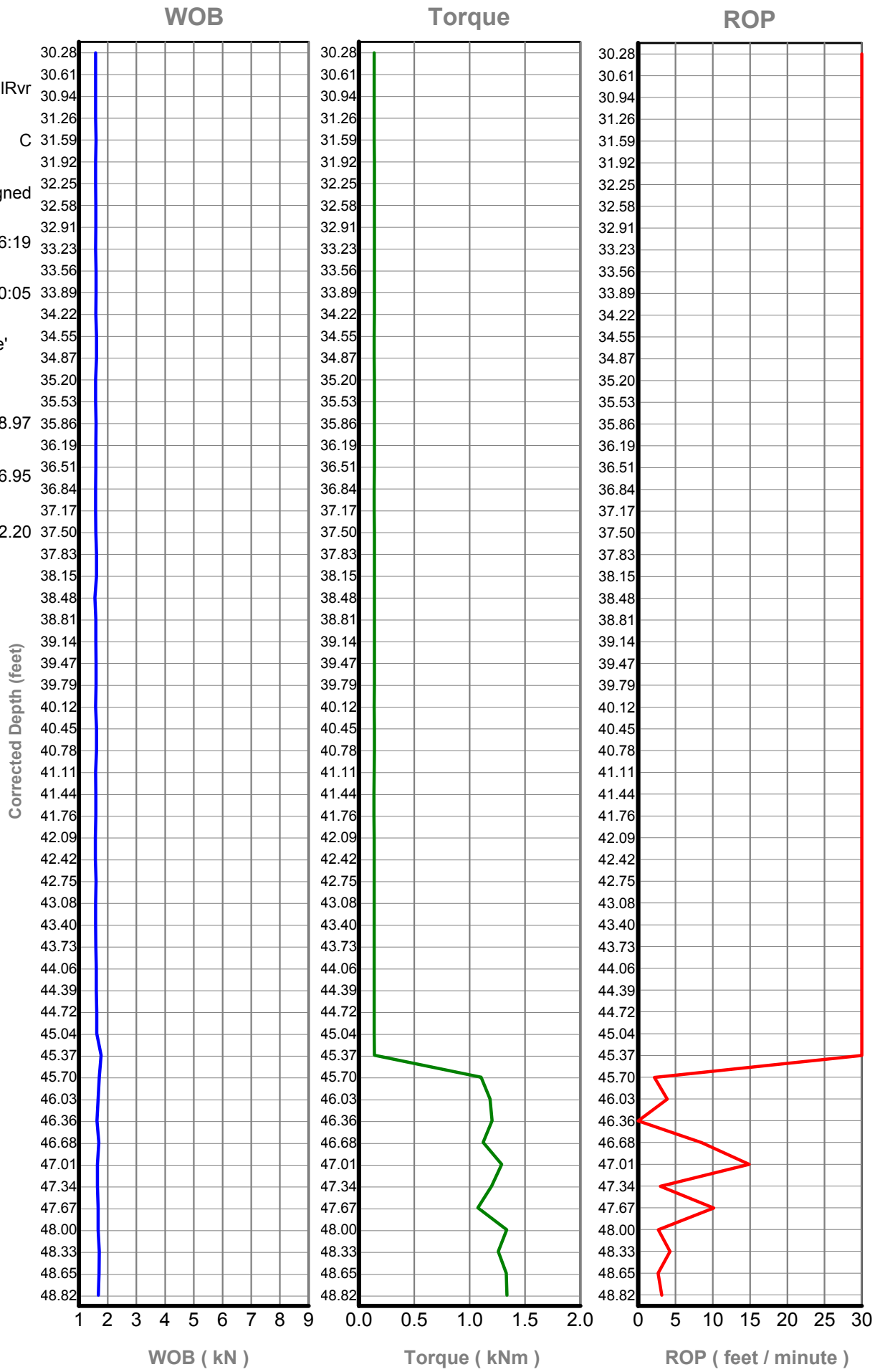
**End Date:**
4/29/2015 2:40:05

**Operator Note:**
'2.2 2.4 c Auto Complete'

**Northing:**
364,068.97

**Easting:**
248,256.95

**Tide (feet):**
2.20



## Hole: I112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:12:56 | 35.76 | 30.16 | 707 | 1.13 | 0.21 | 38.6 |
| 4/27/2015 21:12:57 | 36.09 | 30.49 | 698 | 1.11 | 0.22 | 38.2 |
| 4/27/2015 21:12:57 | 36.42 | 30.82 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 21:12:58 | 36.75 | 31.15 | 719 | 1.13 | 0.21 | 39.3 |
| 4/27/2015 21:12:58 | 37.07 | 31.47 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 21:12:59 | 37.40 | 31.80 | 700 | 1.11 | 0.21 | 38.3 |
| 4/27/2015 21:12:59 | 37.73 | 32.13 | 705 | 1.12 | 0.21 | 38.6 |
| 4/27/2015 21:13:00 | 38.06 | 32.46 | 683 | 1.10 | 0.21 | 37.4 |
| 4/27/2015 21:13:00 | 38.39 | 32.79 | 702 | 1.10 | 0.21 | 38.4 |
| 4/27/2015 21:13:01 | 38.71 | 33.11 | 702 | 1.11 | 0.21 | 38.4 |
| 4/27/2015 21:13:01 | 39.04 | 33.44 | 697 | 1.13 | 0.21 | 38.1 |
| 4/27/2015 21:13:02 | 39.37 | 33.77 | 716 | 1.13 | 0.21 | 39.1 |
| 4/27/2015 21:13:02 | 39.70 | 34.10 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:03 | 40.03 | 34.43 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:03 | 40.35 | 34.75 | 735 | 1.04 | 0.21 | 40.2 |
| 4/27/2015 21:13:03 | 40.68 | 35.08 | 728 | 1.11 | 0.21 | 39.8 |
| 4/27/2015 21:13:04 | 41.01 | 35.41 | 715 | 1.11 | 0.22 | 39.1 |
| 4/27/2015 21:13:04 | 41.34 | 35.74 | 723 | 1.11 | 0.21 | 39.5 |
| 4/27/2015 21:13:05 | 41.67 | 36.07 | 716 | 1.11 | 0.21 | 39.1 |
| 4/27/2015 21:13:06 | 41.99 | 36.39 | 716 | 1.13 | 0.21 | 39.1 |
| 4/27/2015 21:13:06 | 42.32 | 36.72 | 706 | 1.11 | 0.21 | 38.6 |
| 4/27/2015 21:13:07 | 42.65 | 37.05 | 715 | 1.10 | 0.21 | 39.1 |
| 4/27/2015 21:13:07 | 42.98 | 37.38 | 718 | 1.11 | 0.21 | 39.3 |
| 4/27/2015 21:13:08 | 43.31 | 37.71 | 721 | 1.12 | 0.21 | 39.4 |
| 4/27/2015 21:13:08 | 43.64 | 38.04 | 711 | 1.10 | 0.21 | 38.9 |
| 4/27/2015 21:13:09 | 43.96 | 38.36 | 711 | 1.12 | 0.21 | 38.9 |
| 4/27/2015 21:13:09 | 44.29 | 38.69 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:10 | 44.62 | 39.02 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:10 | 44.95 | 39.35 | 710 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:11 | 45.28 | 39.68 | 700 | 1.12 | 0.21 | 38.3 |
| 4/27/2015 21:13:11 | 45.60 | 40.00 | 700 | 1.09 | 0.21 | 38.3 |
| 4/27/2015 21:13:12 | 45.93 | 40.33 | 696 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:13:12 | 46.26 | 40.66 | 708 | 1.12 | 0.21 | 38.7 |
| 4/27/2015 21:13:13 | 46.59 | 40.99 | 694 | 1.13 | 0.21 | 37.9 |
| 4/27/2015 21:13:13 | 46.92 | 41.32 | 689 | 1.11 | 0.23 | 37.7 |
| 4/27/2015 21:13:14 | 47.24 | 41.64 | 710 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:14 | 47.57 | 41.97 | 692 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 21:13:15 | 47.90 | 42.30 | 691 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 21:13:16 | 48.23 | 42.63 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 21:13:16 | 48.56 | 42.96 | 696 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:13:17 | 48.88 | 43.28 | 696 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:13:17 | 49.21 | 43.61 | 699 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 21:13:18 | 49.54 | 43.94 | 695 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:13:18 | 49.87 | 44.27 | 695 | 1.10 | 0.21 | 38.0 |
| 4/27/2015 21:13:19 | 50.20 | 44.60 | 695 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:13:19 | 50.53 | 44.93 | 695 | 1.11 | 0.21 | 38.0 |
| 4/27/2015 21:14:02 | 50.85 | 45.25 | 37 | 1.16 | 1.26 | 2.0 |
| 4/27/2015 21:14:11 | 51.18 | 45.58 | 0 | 1.20 | 1.28 | 0.0 |
| 4/27/2015 21:14:12 | 51.51 | 45.91 | 110 | 1.14 | 1.06 | 6.0 |
| 4/27/2015 21:14:13 | 51.84 | 46.24 | 308 | 1.14 | 1.41 | 16.8 |
| 4/27/2015 21:14:27 | 52.17 | 46.57 | 6 | 1.09 | 1.15 | 0.3 |
| 4/27/2015 21:14:28 | 52.49 | 46.89 | 101 | 1.13 | 1.16 | 5.5 |
| 4/27/2015 21:14:30 | 52.82 | 47.22 | 261 | 1.11 | 1.13 | 14.3 |
| 4/27/2015 21:14:31 | 53.15 | 47.55 | 387 | 1.09 | 1.07 | 21.2 |
| 4/27/2015 21:14:32 | 53.48 | 47.88 | 358 | 1.12 | 0.98 | 19.6 |
| 4/27/2015 21:14:38 | 53.81 | 48.21 | 55 | 1.11 | 0.97 | 3.0 |
| 4/27/2015 21:14:45 | 54.13 | 48.53 | 55 | 1.17 | 1.09 | 3.0 |
| 4/27/2015 21:14:51 | 54.46 | 48.86 | 64 | 1.08 | 1.07 | 3.5 |
| 4/27/2015 21:14:56 | 54.79 | 49.19 | 67 | 1.11 | 1.07 | 3.6 |
| 4/27/2015 21:15:03 | 55.12 | 49.52 | 49 | 1.05 | 0.94 | 2.7 |
| 4/27/2015 21:15:11 | 55.45 | 49.85 | 43 | 1.11 | 0.91 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 21:15:17 | 55.68 | 50.08 | 43 | 1.23 | 1.19 | 2.4 | |

## I112 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:09:36

**End Date:**
4/27/2015 21:17:00

**Operator Note:**
'5.6 5.6. B Auto Complete'

**Northing:**
364,119.79

**Easting:**
248,311.09

**Tide (feet):**
5.60



## Hole: I113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:12:42 | 35.76 | 30.26 | 1,037 | 0.32 | 0.34 | 56.7 |
| 4/27/2015 21:12:42 | 36.09 | 30.59 | 1,032 | 0.33 | 0.33 | 56.4 |
| 4/27/2015 21:12:43 | 36.42 | 30.92 | 1,032 | 0.33 | 0.33 | 56.4 |
| 4/27/2015 21:12:43 | 36.75 | 31.25 | 1,032 | 0.33 | 0.33 | 56.4 |
| 4/27/2015 21:12:44 | 37.07 | 31.57 | 1,032 | 0.33 | 0.34 | 56.4 |
| 4/27/2015 21:12:44 | 37.40 | 31.90 | 1,032 | 0.33 | 0.34 | 56.4 |
| 4/27/2015 21:12:44 | 37.73 | 32.23 | 1,010 | 0.32 | 0.34 | 55.2 |
| 4/27/2015 21:12:45 | 38.06 | 32.56 | 1,007 | 0.32 | 0.33 | 55.1 |
| 4/27/2015 21:12:45 | 38.39 | 32.89 | 1,007 | 0.32 | 0.33 | 55.1 |
| 4/27/2015 21:12:45 | 38.71 | 33.21 | 1,020 | 0.32 | 0.33 | 55.8 |
| 4/27/2015 21:12:46 | 39.04 | 33.54 | 1,023 | 0.32 | 0.34 | 55.9 |
| 4/27/2015 21:12:46 | 39.37 | 33.87 | 1,023 | 0.32 | 0.34 | 55.9 |
| 4/27/2015 21:12:46 | 39.70 | 34.20 | 1,019 | 0.32 | 0.33 | 55.7 |
| 4/27/2015 21:12:47 | 40.03 | 34.53 | 1,031 | 0.33 | 0.33 | 56.4 |
| 4/27/2015 21:12:47 | 40.35 | 34.85 | 1,031 | 0.33 | 0.33 | 56.4 |
| 4/27/2015 21:12:47 | 40.68 | 35.18 | 1,046 | 0.33 | 0.33 | 57.2 |
| 4/27/2015 21:12:48 | 41.01 | 35.51 | 1,028 | 0.32 | 0.34 | 56.2 |
| 4/27/2015 21:12:48 | 41.34 | 35.84 | 1,028 | 0.32 | 0.34 | 56.2 |
| 4/27/2015 21:12:48 | 41.67 | 36.17 | 1,042 | 0.32 | 0.34 | 57.0 |
| 4/27/2015 21:12:49 | 41.99 | 36.49 | 1,042 | 0.32 | 0.34 | 57.0 |
| 4/27/2015 21:12:49 | 42.32 | 36.82 | 1,042 | 0.32 | 0.34 | 57.0 |
| 4/27/2015 21:12:49 | 42.65 | 37.15 | 1,039 | 0.32 | 0.34 | 56.8 |
| 4/27/2015 21:12:50 | 42.98 | 37.48 | 1,046 | 0.33 | 0.33 | 57.2 |
| 4/27/2015 21:12:50 | 43.31 | 37.81 | 1,046 | 0.33 | 0.33 | 57.2 |
| 4/27/2015 21:12:50 | 43.64 | 38.14 | 1,030 | 0.32 | 0.33 | 56.3 |
| 4/27/2015 21:12:51 | 43.96 | 38.46 | 1,019 | 0.33 | 0.33 | 55.7 |
| 4/27/2015 21:12:51 | 44.29 | 38.79 | 1,019 | 0.33 | 0.33 | 55.7 |
| 4/27/2015 21:12:51 | 44.62 | 39.12 | 1,019 | 0.32 | 0.33 | 55.7 |
| 4/27/2015 21:12:52 | 44.95 | 39.45 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/27/2015 21:12:53 | 45.28 | 39.78 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/27/2015 21:12:52 | 45.60 | 40.10 | 1,017 | 0.32 | 0.34 | 55.6 |
| 4/27/2015 21:12:53 | 45.93 | 40.43 | 1,014 | 0.15 | 0.33 | 55.4 |
| 4/27/2015 21:12:54 | 46.26 | 40.76 | 1,014 | 0.15 | 0.33 | 55.4 |
| 4/27/2015 21:12:54 | 46.59 | 41.09 | 1,011 | 0.32 | 0.33 | 55.3 |
| 4/27/2015 21:12:54 | 46.92 | 41.42 | 1,034 | 0.32 | 0.33 | 56.5 |
| 4/27/2015 21:12:55 | 47.24 | 41.74 | 1,034 | 0.32 | 0.33 | 56.5 |
| 4/27/2015 21:12:55 | 47.57 | 42.07 | 1,002 | 0.32 | 0.34 | 54.8 |
| 4/27/2015 21:12:55 | 47.90 | 42.40 | 1,002 | 0.33 | 0.34 | 54.8 |
| 4/27/2015 21:12:56 | 48.23 | 42.73 | 1,002 | 0.33 | 0.34 | 54.8 |
| 4/27/2015 21:12:56 | 48.56 | 43.06 | 1,017 | 0.32 | 0.33 | 55.6 |
| 4/27/2015 21:12:56 | 48.88 | 43.38 | 1,007 | 0.32 | 0.35 | 55.1 |
| 4/27/2015 21:12:57 | 49.21 | 43.71 | 1,007 | 0.32 | 0.35 | 55.1 |
| 4/27/2015 21:12:57 | 49.54 | 44.04 | 992 | 0.29 | 0.34 | 54.2 |
| 4/27/2015 21:12:57 | 49.87 | 44.37 | 992 | 0.32 | 0.33 | 54.2 |
| 4/27/2015 21:12:58 | 50.20 | 44.70 | 992 | 0.32 | 0.33 | 54.2 |
| 4/27/2015 21:12:58 | 50.53 | 45.03 | 992 | 0.33 | 0.34 | 54.2 |
| 4/27/2015 21:12:58 | 50.85 | 45.35 | 987 | 0.32 | 0.33 | 54.0 |
| 4/27/2015 21:12:59 | 51.18 | 45.68 | 987 | 0.32 | 0.33 | 54.0 |
| 4/27/2015 21:12:59 | 51.51 | 46.01 | 987 | 0.31 | 0.36 | 54.0 |
| 4/27/2015 21:13:07 | 51.84 | 46.34 | 12 | 4.43 | 0.40 | 0.6 |
| 4/27/2015 21:13:10 | 52.17 | 46.67 | 100 | 4.38 | 0.39 | 5.5 |
| 4/27/2015 21:13:11 | 52.49 | 46.99 | 187 | 4.05 | 0.39 | 10.2 |
| 4/27/2015 21:13:12 | 52.82 | 47.32 | 274 | 5.55 | 0.40 | 15.0 |
| 4/27/2015 21:13:14 | 53.15 | 47.65 | 210 | 7.35 | 0.40 | 11.5 |
| 4/27/2015 21:13:15 | 53.48 | 47.98 | 202 | 6.02 | 0.40 | 11.1 |
| 4/27/2015 21:13:16 | 53.81 | 48.31 | 275 | 4.53 | 0.39 | 15.0 |
| 4/27/2015 21:13:17 | 54.13 | 48.63 | 319 | 3.90 | 0.39 | 17.5 |
| 4/27/2015 21:13:18 | 54.46 | 48.96 | 355 | 4.52 | 0.39 | 19.4 |
| 4/27/2015 21:13:19 | 54.79 | 49.29 | 377 | 4.36 | 0.39 | 20.6 |
| 4/27/2015 21:13:29 | 55.12 | 49.62 | 0 | 3.35 | 0.38 | 0.0 |
| 4/27/2015 21:13:30 | 55.45 | 49.95 | 102 | 4.00 | 0.38 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:13:31 | 55.77 | 50.27 | 265 | 3.94 | 0.39 | 14.5 |
| 4/27/2015 | 21:13:32 | 56.10 | 50.60 | 402 | 4.94 | 0.39 | 22.0 |
| 4/27/2015 | 21:13:33 | 56.43 | 50.93 | 390 | 3.64 | 0.38 | 21.3 |
| 4/27/2015 | 21:13:34 | 56.76 | 51.26 | 379 | 3.44 | 0.38 | 20.7 |
| 4/27/2015 | 21:13:35 | 57.09 | 51.59 | 403 | 2.55 | 0.37 | 22.0 |
| 4/27/2015 | 21:13:36 | 57.41 | 51.91 | 403 | 2.52 | 0.36 | 22.0 |
| 4/27/2015 | 21:13:36 | 57.74 | 52.24 | 468 | 2.71 | 0.37 | 25.6 |
| 4/27/2015 | 21:13:37 | 58.07 | 52.57 | 495 | 3.12 | 0.38 | 27.1 |
| 4/27/2015 | 21:13:38 | 58.40 | 52.90 | 510 | 2.96 | 0.40 | 27.9 |
| 4/27/2015 | 21:13:40 | 58.73 | 53.23 | 160 | 4.66 | 0.39 | 8.8 |
| 4/27/2015 | 21:13:42 | 59.06 | 53.56 | 180 | 5.82 | 0.41 | 9.9 |
| 4/27/2015 | 21:13:45 | 59.38 | 53.88 | 145 | 7.94 | 0.40 | 7.9 |
| 4/27/2015 | 21:13:46 | 59.71 | 54.21 | 169 | 3.75 | 0.38 | 9.3 |
| 4/27/2015 | 21:13:47 | 60.04 | 54.54 | 250 | 3.81 | 0.39 | 13.6 |
| 4/27/2015 | 21:13:51 | 60.37 | 54.87 | 107 | 3.85 | 0.40 | 5.9 |
| 4/27/2015 | 21:13:52 | 60.61 | 55.11 | 107 | 8.15 | 0.42 | 5.9 |

## I113 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:10:42

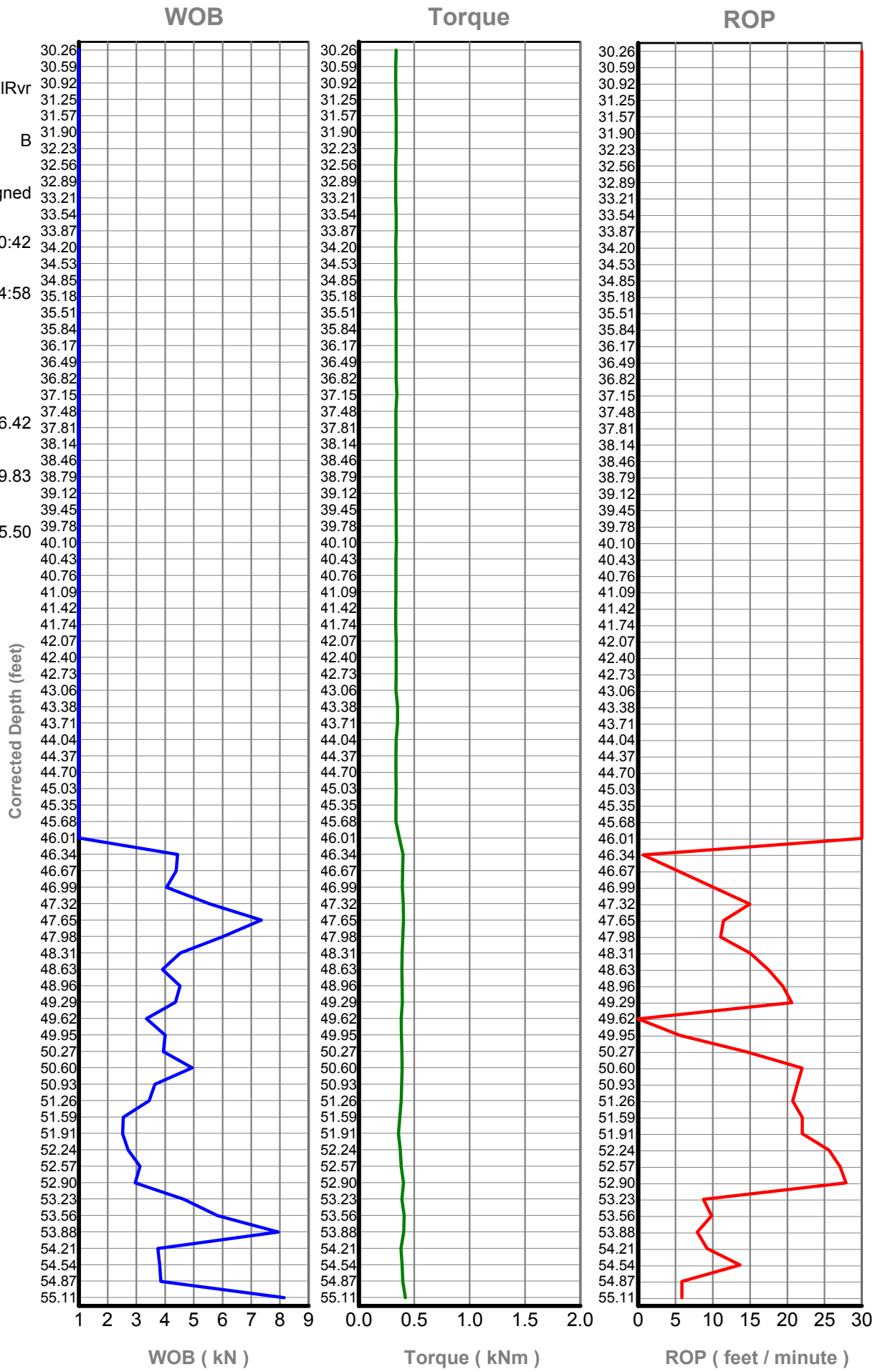
**End Date:**
4/27/2015 21:14:58

**Operator Note:**
'5.5 '5.6 5.6b Auto Complete'

**Northing:**
364,166.42

**Easting:**
248,369.83

**Tide (feet):**
5.50



## Hole: I114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:10:44 | 35.76 | 30.16 | 1,064 | 1.62 | 0.15 | 58.2 |
| 4/27/2015 21:10:44 | 36.09 | 30.49 | 1,061 | 1.62 | 0.15 | 58.0 |
| 4/27/2015 21:10:45 | 36.42 | 30.82 | 1,064 | 1.62 | 0.15 | 58.2 |
| 4/27/2015 21:10:45 | 36.75 | 31.15 | 1,064 | 1.62 | 0.15 | 58.2 |
| 4/27/2015 21:10:45 | 37.07 | 31.47 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/27/2015 21:10:46 | 37.40 | 31.80 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/27/2015 21:10:46 | 37.73 | 32.13 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/27/2015 21:10:46 | 38.06 | 32.46 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/27/2015 21:10:47 | 38.39 | 32.79 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/27/2015 21:10:47 | 38.71 | 33.11 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/27/2015 21:10:47 | 39.04 | 33.44 | 1,053 | 1.61 | 0.14 | 57.6 |
| 4/27/2015 21:10:48 | 39.37 | 33.77 | 1,053 | 1.61 | 0.14 | 57.6 |
| 4/27/2015 21:10:48 | 39.70 | 34.10 | 1,056 | 1.63 | 0.14 | 57.8 |
| 4/27/2015 21:10:49 | 40.03 | 34.43 | 1,056 | 1.61 | 0.14 | 57.8 |
| 4/27/2015 21:10:49 | 40.35 | 34.75 | 1,056 | 1.61 | 0.14 | 57.8 |
| 4/27/2015 21:10:49 | 40.68 | 35.08 | 1,059 | 1.63 | 0.14 | 57.9 |
| 4/27/2015 21:10:50 | 41.01 | 35.41 | 1,074 | 1.62 | 0.14 | 58.7 |
| 4/27/2015 21:10:50 | 41.34 | 35.74 | 1,074 | 1.62 | 0.14 | 58.7 |
| 4/27/2015 21:10:50 | 41.67 | 36.07 | 1,067 | 1.62 | 0.14 | 58.3 |
| 4/27/2015 21:10:51 | 41.99 | 36.39 | 1,064 | 1.64 | 0.14 | 58.2 |
| 4/27/2015 21:10:51 | 42.32 | 36.72 | 1,064 | 1.64 | 0.14 | 58.2 |
| 4/27/2015 21:10:51 | 42.65 | 37.05 | 1,061 | 1.61 | 0.14 | 58.0 |
| 4/27/2015 21:10:52 | 42.98 | 37.38 | 1,061 | 1.61 | 0.14 | 58.0 |
| 4/27/2015 21:10:52 | 43.31 | 37.71 | 1,055 | 1.61 | 0.14 | 57.7 |
| 4/27/2015 21:10:52 | 43.64 | 38.04 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/27/2015 21:10:53 | 43.96 | 38.36 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/27/2015 21:10:53 | 44.29 | 38.69 | 1,058 | 1.62 | 0.14 | 57.9 |
| 4/27/2015 21:10:53 | 44.62 | 39.02 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:54 | 44.95 | 39.35 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:54 | 45.28 | 39.68 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:54 | 45.60 | 40.00 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:55 | 45.93 | 40.33 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:55 | 46.26 | 40.66 | 1,052 | 1.62 | 0.14 | 57.5 |
| 4/27/2015 21:10:55 | 46.59 | 40.99 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:56 | 46.92 | 41.32 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:56 | 47.24 | 41.64 | 1,049 | 1.63 | 0.14 | 57.4 |
| 4/27/2015 21:10:56 | 47.57 | 41.97 | 1,055 | 1.64 | 0.14 | 57.7 |
| 4/27/2015 21:10:57 | 47.90 | 42.30 | 1,055 | 1.64 | 0.14 | 57.7 |
| 4/27/2015 21:10:57 | 48.23 | 42.63 | 1,055 | 1.62 | 0.14 | 57.7 |
| 4/27/2015 21:10:57 | 48.56 | 42.96 | 1,029 | 1.60 | 0.14 | 56.3 |
| 4/27/2015 21:10:58 | 48.88 | 43.28 | 1,029 | 1.60 | 0.14 | 56.3 |
| 4/27/2015 21:10:58 | 49.21 | 43.61 | 1,029 | 1.62 | 0.14 | 56.3 |
| 4/27/2015 21:10:58 | 49.54 | 43.94 | 1,029 | 1.62 | 0.14 | 56.3 |
| 4/27/2015 21:10:59 | 49.87 | 44.27 | 1,044 | 1.61 | 0.14 | 57.1 |
| 4/27/2015 21:10:59 | 50.20 | 44.60 | 1,045 | 1.61 | 0.14 | 57.1 |
| 4/27/2015 21:11:00 | 50.53 | 44.93 | 1,045 | 1.61 | 0.14 | 57.1 |
| 4/27/2015 21:11:00 | 50.85 | 45.25 | 1,041 | 1.62 | 0.14 | 56.9 |
| 4/27/2015 21:11:00 | 51.18 | 45.58 | 1,027 | 1.81 | 0.14 | 56.2 |
| 4/27/2015 21:11:45 | 51.51 | 45.91 | 0 | 1.63 | 0.14 | 0.0 |
| 4/27/2015 21:12:29 | 51.84 | 46.24 | 0 | 1.63 | 0.14 | 0.0 |
| 4/27/2015 21:11:45 | 52.17 | 46.57 | 177 | 1.64 | 0.14 | 9.7 |
| 4/27/2015 21:11:46 | 52.49 | 46.89 | 377 | 1.64 | 0.14 | 20.6 |
| 4/27/2015 21:11:46 | 52.82 | 47.22 | 580 | 1.68 | 0.14 | 31.7 |
| 4/27/2015 21:11:48 | 53.15 | 47.55 | 538 | 1.64 | 0.13 | 29.4 |
| 4/27/2015 21:12:08 | 53.48 | 47.88 | 16 | 1.66 | 1.44 | 0.9 |
| 4/27/2015 21:12:11 | 53.81 | 48.21 | 143 | 1.65 | 1.49 | 7.8 |
| 4/27/2015 21:12:13 | 54.13 | 48.53 | 156 | 1.66 | 1.40 | 8.5 |
| 4/27/2015 21:12:14 | 54.46 | 48.86 | 240 | 1.66 | 1.30 | 13.1 |
| 4/27/2015 21:12:15 | 54.79 | 49.19 | 286 | 1.67 | 1.22 | 15.6 |
| 4/27/2015 21:12:16 | 55.12 | 49.52 | 312 | 1.68 | 1.28 | 17.1 |
| 4/27/2015 21:12:17 | 55.45 | 49.85 | 328 | 1.72 | 1.21 | 17.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:12:18 | 55.77 | 50.17 | 371 | 1.70 | 1.37 | 20.3 |
| 4/27/2015 | 21:12:30 | 56.10 | 50.50 | 95 | 1.66 | 1.24 | 5.2 |
| 4/27/2015 | 21:12:30 | 56.43 | 50.83 | 186 | 1.66 | 1.29 | 10.2 |
| 4/27/2015 | 21:12:32 | 56.76 | 51.16 | 369 | 1.68 | 1.38 | 20.2 |
| 4/27/2015 | 21:12:33 | 57.09 | 51.49 | 405 | 1.68 | 1.25 | 22.1 |
| 4/27/2015 | 21:12:34 | 57.41 | 51.81 | 375 | 1.67 | 1.21 | 20.5 |
| 4/27/2015 | 21:12:35 | 57.74 | 52.14 | 322 | 1.66 | 1.13 | 17.6 |
| 4/27/2015 | 21:12:35 | 58.07 | 52.47 | 364 | 1.66 | 1.14 | 19.9 |
| 4/27/2015 | 21:12:36 | 58.40 | 52.80 | 460 | 1.68 | 1.12 | 25.2 |
| 4/27/2015 | 21:13:05 | 58.73 | 53.13 | 0 | 1.68 | 1.02 | 0.0 |
| 4/27/2015 | 21:13:06 | 59.06 | 53.46 | 74 | 1.72 | 1.01 | 4.0 |
| 4/27/2015 | 21:13:06 | 59.38 | 53.78 | 213 | 1.68 | 0.95 | 11.7 |
| 4/27/2015 | 21:13:07 | 59.71 | 54.11 | 358 | 1.64 | 0.95 | 19.6 |
| 4/27/2015 | 21:13:07 | 60.04 | 54.44 | 495 | 1.68 | 0.97 | 27.1 |
| 4/27/2015 | 21:13:08 | 60.37 | 54.77 | 636 | 1.68 | 0.95 | 34.8 |
| 4/27/2015 | 21:13:08 | 60.70 | 55.10 | 700 | 1.72 | 0.98 | 38.3 |
| 4/27/2015 | 21:13:09 | 61.02 | 55.42 | 700 | 1.72 | 1.02 | 38.3 |
| 4/27/2015 | 21:13:09 | 61.35 | 55.75 | 672 | 1.68 | 1.16 | 36.8 |
| 4/27/2015 | 21:13:09 | 61.36 | 55.76 | 672 | 1.68 | 1.16 | 36.8 |

## I114 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:09:18

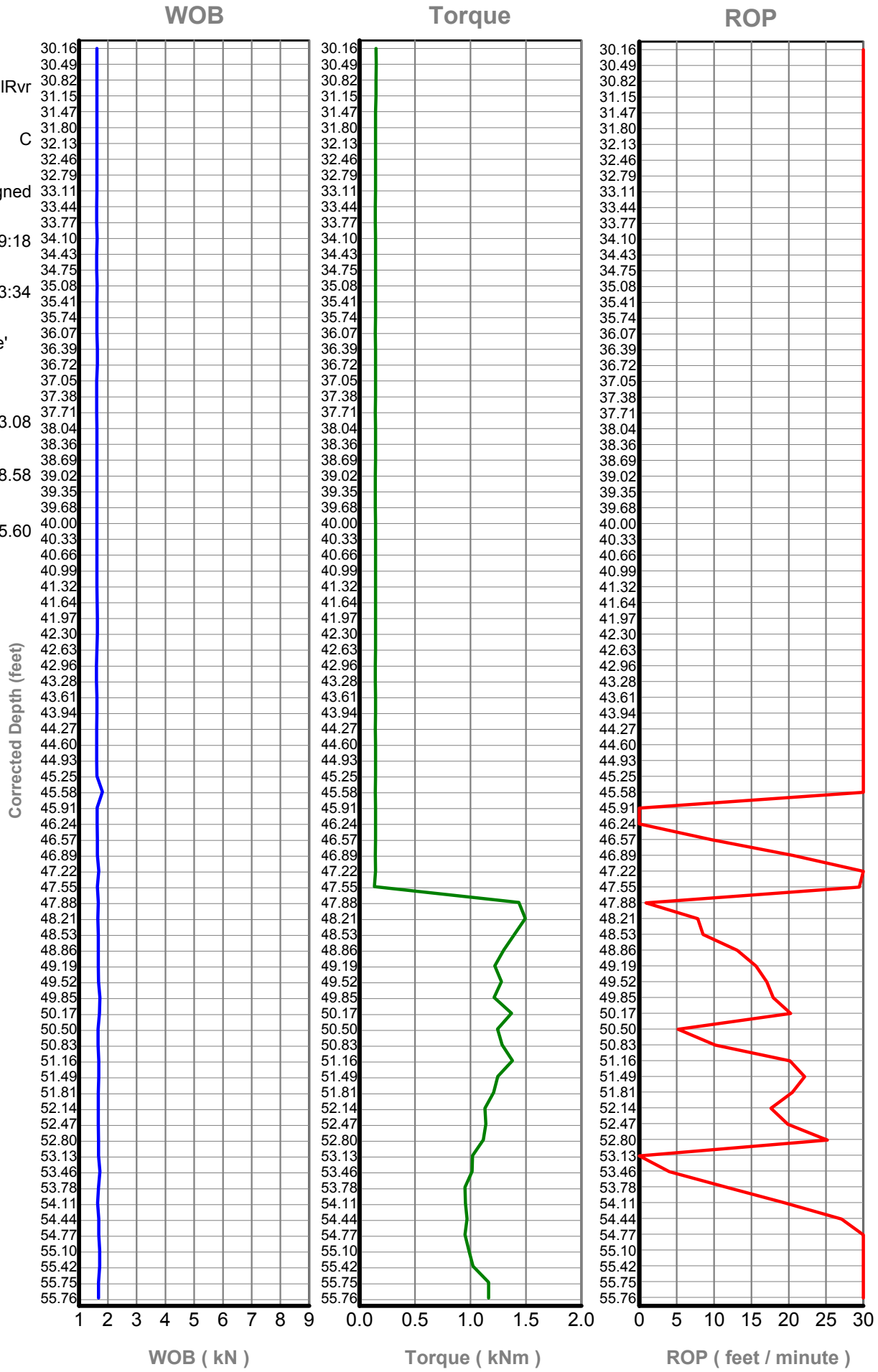
**End Date:**
4/27/2015 21:13:34

**Operator Note:**
'5.6 5.6 c Auto Complete'

**Northing:**
364,213.08

**Easting:**
248,428.58

**Tide (feet):**
5.60



## Hole: I115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:17:56 | 33.79 | 30.09 | 717 | 1.01 | 0.19 | 39.2 |
| 4/27/2015 18:17:56 | 34.12 | 30.42 | 711 | 1.00 | 0.19 | 38.9 |
| 4/27/2015 18:17:57 | 34.45 | 30.75 | 711 | 1.00 | 0.19 | 38.9 |
| 4/27/2015 18:17:57 | 34.78 | 31.08 | 717 | 1.02 | 0.19 | 39.2 |
| 4/27/2015 18:17:58 | 35.11 | 31.41 | 715 | 1.01 | 0.19 | 39.1 |
| 4/27/2015 18:17:58 | 35.43 | 31.73 | 726 | 1.01 | 0.19 | 39.7 |
| 4/27/2015 18:17:59 | 35.76 | 32.06 | 726 | 1.02 | 0.19 | 39.7 |
| 4/27/2015 18:17:59 | 36.09 | 32.39 | 728 | 1.02 | 0.19 | 39.8 |
| 4/27/2015 18:18:00 | 36.42 | 32.72 | 718 | 1.01 | 0.19 | 39.2 |
| 4/27/2015 18:18:00 | 36.75 | 33.05 | 727 | 1.03 | 0.19 | 39.7 |
| 4/27/2015 18:18:01 | 37.07 | 33.37 | 721 | 1.02 | 0.19 | 39.4 |
| 4/27/2015 18:18:01 | 37.40 | 33.70 | 721 | 1.02 | 0.19 | 39.4 |
| 4/27/2015 18:18:02 | 37.73 | 34.03 | 711 | 1.00 | 0.19 | 38.9 |
| 4/27/2015 18:18:02 | 38.06 | 34.36 | 711 | 1.02 | 0.19 | 38.9 |
| 4/27/2015 18:18:03 | 38.39 | 34.69 | 727 | 1.00 | 0.19 | 39.8 |
| 4/27/2015 18:18:03 | 38.71 | 35.01 | 723 | 1.00 | 0.19 | 39.5 |
| 4/27/2015 18:18:04 | 39.04 | 35.34 | 721 | 1.01 | 0.19 | 39.4 |
| 4/27/2015 18:18:04 | 39.37 | 35.67 | 725 | 1.03 | 0.19 | 39.7 |
| 4/27/2015 18:18:05 | 39.70 | 36.00 | 713 | 1.00 | 0.19 | 39.0 |
| 4/27/2015 18:18:05 | 40.03 | 36.33 | 713 | 1.02 | 0.19 | 39.0 |
| 4/27/2015 18:18:06 | 40.35 | 36.65 | 715 | 1.02 | 0.19 | 39.1 |
| 4/27/2015 18:18:06 | 40.68 | 36.98 | 715 | 1.02 | 0.19 | 39.1 |
| 4/27/2015 18:18:06 | 41.01 | 37.31 | 711 | 1.00 | 0.19 | 38.9 |
| 4/27/2015 18:18:07 | 41.34 | 37.64 | 715 | 1.01 | 0.19 | 39.1 |
| 4/27/2015 18:18:08 | 41.67 | 37.97 | 708 | 1.03 | 0.19 | 38.7 |
| 4/27/2015 18:18:08 | 41.99 | 38.29 | 725 | 1.00 | 0.19 | 39.7 |
| 4/27/2015 18:18:09 | 42.32 | 38.62 | 723 | 1.01 | 0.19 | 39.5 |
| 4/27/2015 18:18:09 | 42.65 | 38.95 | 723 | 1.00 | 0.19 | 39.5 |
| 4/27/2015 18:18:10 | 42.98 | 39.28 | 720 | 1.02 | 0.19 | 39.4 |
| 4/27/2015 18:18:10 | 43.31 | 39.61 | 716 | 1.02 | 0.19 | 39.1 |
| 4/27/2015 18:18:11 | 43.64 | 39.94 | 720 | 1.00 | 0.19 | 39.4 |
| 4/27/2015 18:18:11 | 43.96 | 40.26 | 717 | 1.00 | 0.19 | 39.2 |
| 4/27/2015 18:18:12 | 44.29 | 40.59 | 714 | 1.00 | 0.19 | 39.1 |
| 4/27/2015 18:18:12 | 44.62 | 40.92 | 710 | 1.02 | 0.19 | 38.8 |
| 4/27/2015 18:18:13 | 44.95 | 41.25 | 721 | 1.02 | 0.18 | 39.4 |
| 4/27/2015 18:18:13 | 45.28 | 41.58 | 711 | 1.00 | 0.18 | 38.9 |
| 4/27/2015 18:18:14 | 45.60 | 41.90 | 708 | 1.00 | 0.18 | 38.7 |
| 4/27/2015 18:18:14 | 45.93 | 42.23 | 694 | 1.00 | 0.19 | 38.0 |
| 4/27/2015 18:18:15 | 46.26 | 42.56 | 694 | 1.02 | 0.20 | 38.0 |
| 4/27/2015 18:18:15 | 46.59 | 42.89 | 705 | 1.00 | 0.19 | 38.5 |
| 4/27/2015 18:18:16 | 46.92 | 43.22 | 697 | 1.00 | 0.18 | 38.1 |
| 4/27/2015 18:18:16 | 47.24 | 43.54 | 700 | 1.00 | 0.19 | 38.3 |
| 4/27/2015 18:18:17 | 47.57 | 43.87 | 706 | 1.01 | 0.19 | 38.6 |
| 4/27/2015 18:18:18 | 47.90 | 44.20 | 720 | 1.02 | 0.19 | 39.4 |
| 4/27/2015 18:18:18 | 48.23 | 44.53 | 695 | 1.02 | 0.19 | 38.0 |
| 4/27/2015 18:18:19 | 48.56 | 44.86 | 695 | 1.01 | 0.18 | 38.0 |
| 4/27/2015 18:18:19 | 48.88 | 45.18 | 695 | 1.01 | 0.18 | 38.0 |
| 4/27/2015 18:18:19 | 49.21 | 45.51 | 706 | 1.01 | 0.19 | 38.6 |
| 4/27/2015 18:18:20 | 49.54 | 45.84 | 711 | 1.00 | 0.18 | 38.9 |
| 4/27/2015 18:18:21 | 49.87 | 46.17 | 683 | 0.61 | 0.15 | 37.4 |
| 4/27/2015 18:18:36 | 50.20 | 46.50 | 27 | 0.36 | 1.20 | 1.5 |
| 4/27/2015 18:18:39 | 50.53 | 46.83 | 104 | 1.00 | 0.76 | 5.7 |
| 4/27/2015 18:18:40 | 50.85 | 47.15 | 159 | 1.12 | 1.38 | 8.7 |
| 4/27/2015 18:18:41 | 51.18 | 47.48 | 208 | 1.03 | 1.13 | 11.4 |
| 4/27/2015 18:18:43 | 51.51 | 47.81 | 272 | 1.02 | 1.09 | 14.9 |
| 4/27/2015 18:18:44 | 51.84 | 48.14 | 181 | 1.05 | 1.00 | 9.9 |
| 4/27/2015 18:18:45 | 52.17 | 48.47 | 279 | 1.03 | 1.00 | 15.2 |
| 4/27/2015 18:18:46 | 52.49 | 48.79 | 314 | 0.98 | 0.96 | 17.2 |
| 4/27/2015 18:18:47 | 52.82 | 49.12 | 379 | 0.99 | 0.85 | 20.7 |
| 4/27/2015 18:18:49 | 53.15 | 49.45 | 254 | 1.09 | 1.14 | 13.9 |
| 4/27/2015 18:18:51 | 53.48 | 49.78 | 173 | 1.13 | 0.97 | 9.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 18:18:54 | 53.81 | 50.11 | 129 | 1.05 | 1.17 | 7.1 |
| 4/27/2015 | 18:18:58 | 54.13 | 50.43 | 80 | 1.12 | 1.13 | 4.4 |
| 4/27/2015 | 18:19:04 | 54.46 | 50.76 | 70 | 1.11 | 1.13 | 3.8 |
| 4/27/2015 | 18:19:08 | 54.79 | 51.09 | 84 | 1.00 | 1.09 | 4.6 |
| 4/27/2015 | 18:19:12 | 55.12 | 51.42 | 87 | 1.02 | 1.14 | 4.7 |
| 4/27/2015 | 18:19:17 | 55.45 | 51.75 | 75 | 1.09 | 1.10 | 4.1 |
| 4/27/2015 | 18:19:21 | 55.77 | 52.07 | 84 | 1.03 | 1.08 | 4.6 |
| 4/27/2015 | 18:19:24 | 56.10 | 52.40 | 120 | 1.02 | 1.12 | 6.6 |
| 4/27/2015 | 18:19:29 | 56.43 | 52.73 | 72 | 1.08 | 1.06 | 3.9 |
| 4/27/2015 | 18:19:35 | 56.76 | 53.06 | 59 | 1.01 | 0.96 | 3.2 |
| 4/27/2015 | 18:19:40 | 57.09 | 53.39 | 84 | 1.02 | 1.05 | 4.6 |
| 4/27/2015 | 18:19:45 | 57.41 | 53.71 | 75 | 1.06 | 1.02 | 4.1 |
| 4/27/2015 | 18:19:46 | 57.48 | 53.78 | 66 | 0.67 | 1.17 | 3.6 |

## I115 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:16:01

**End Date:**
4/27/2015 18:21:33

**Operator Note:**
'3.7 3.4 a Auto Complete'

**Northing:**
364,263.67

**Easting:**
248,499.93

**Tide (feet):**
3.70



## Hole: I116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:17:42 | 33.79 | 30.29 | 1,056 | 0.39 | 0.34 | 57.7 |
| 4/27/2015 18:17:43 | 34.12 | 30.62 | 1,056 | 0.39 | 0.34 | 57.7 |
| 4/27/2015 18:17:43 | 34.45 | 30.95 | 1,050 | 0.38 | 0.34 | 57.4 |
| 4/27/2015 18:17:43 | 34.78 | 31.28 | 1,050 | 0.38 | 0.34 | 57.4 |
| 4/27/2015 18:17:43 | 35.11 | 31.61 | 1,067 | 0.39 | 0.33 | 58.3 |
| 4/27/2015 18:17:44 | 35.43 | 31.93 | 1,055 | 0.38 | 0.34 | 57.7 |
| 4/27/2015 18:17:44 | 35.76 | 32.26 | 1,055 | 0.38 | 0.34 | 57.7 |
| 4/27/2015 18:17:44 | 36.09 | 32.59 | 1,061 | 0.37 | 0.34 | 58.0 |
| 4/27/2015 18:17:45 | 36.42 | 32.92 | 1,052 | 0.37 | 0.34 | 57.5 |
| 4/27/2015 18:17:46 | 36.75 | 33.25 | 1,052 | 0.37 | 0.34 | 57.5 |
| 4/27/2015 18:17:46 | 37.07 | 33.57 | 1,052 | 0.37 | 0.34 | 57.5 |
| 4/27/2015 18:17:46 | 37.40 | 33.90 | 1,046 | 0.37 | 0.33 | 57.2 |
| 4/27/2015 18:17:47 | 37.73 | 34.23 | 1,046 | 0.37 | 0.33 | 57.2 |
| 4/27/2015 18:17:47 | 38.06 | 34.56 | 1,044 | 0.37 | 0.34 | 57.1 |
| 4/27/2015 18:17:47 | 38.39 | 34.89 | 1,035 | 0.38 | 0.34 | 56.6 |
| 4/27/2015 18:17:48 | 38.71 | 35.21 | 1,035 | 0.38 | 0.34 | 56.6 |
| 4/27/2015 18:17:48 | 39.04 | 35.54 | 1,044 | 0.24 | 0.32 | 57.1 |
| 4/27/2015 18:17:48 | 39.37 | 35.87 | 1,044 | 0.29 | 0.33 | 57.1 |
| 4/27/2015 18:17:49 | 39.70 | 36.20 | 1,044 | 0.29 | 0.33 | 57.1 |
| 4/27/2015 18:17:49 | 40.03 | 36.53 | 1,055 | 0.34 | 0.32 | 57.7 |
| 4/27/2015 18:17:49 | 40.35 | 36.85 | 1,064 | 0.29 | 0.32 | 58.2 |
| 4/27/2015 18:17:50 | 40.68 | 37.18 | 1,064 | 0.29 | 0.32 | 58.2 |
| 4/27/2015 18:17:50 | 41.01 | 37.51 | 1,075 | 0.26 | 0.32 | 58.8 |
| 4/27/2015 18:17:50 | 41.34 | 37.84 | 1,075 | 0.26 | 0.32 | 58.8 |
| 4/27/2015 18:17:50 | 41.67 | 38.17 | 1,081 | 0.29 | 0.32 | 59.1 |
| 4/27/2015 18:17:51 | 41.99 | 38.49 | 1,084 | 0.29 | 0.33 | 59.3 |
| 4/27/2015 18:17:51 | 42.32 | 38.82 | 1,084 | 0.29 | 0.33 | 59.3 |
| 4/27/2015 18:17:51 | 42.65 | 39.15 | 1,072 | 0.32 | 0.32 | 58.6 |
| 4/27/2015 18:17:52 | 42.98 | 39.48 | 1,084 | 0.31 | 0.32 | 59.3 |
| 4/27/2015 18:17:52 | 43.31 | 39.81 | 1,084 | 0.31 | 0.32 | 59.3 |
| 4/27/2015 18:17:52 | 43.64 | 40.14 | 1,076 | 0.37 | 0.32 | 58.8 |
| 4/27/2015 18:17:53 | 43.96 | 40.46 | 1,076 | 0.29 | 0.33 | 58.8 |
| 4/27/2015 18:17:53 | 44.29 | 40.79 | 1,076 | 0.29 | 0.33 | 58.8 |
| 4/27/2015 18:17:53 | 44.62 | 41.12 | 1,078 | 0.29 | 0.33 | 59.0 |
| 4/27/2015 18:17:54 | 44.95 | 41.45 | 1,078 | 0.29 | 0.33 | 59.0 |
| 4/27/2015 18:17:54 | 45.28 | 41.78 | 1,084 | 0.29 | 0.32 | 59.3 |
| 4/27/2015 18:17:54 | 45.60 | 42.10 | 1,078 | 0.27 | 0.32 | 59.0 |
| 4/27/2015 18:17:55 | 45.93 | 42.43 | 1,078 | 0.27 | 0.32 | 59.0 |
| 4/27/2015 18:17:55 | 46.26 | 42.76 | 1,084 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 18:17:56 | 46.59 | 43.09 | 1,074 | 0.26 | 0.32 | 58.8 |
| 4/27/2015 18:17:56 | 46.92 | 43.42 | 1,074 | 0.26 | 0.32 | 58.8 |
| 4/27/2015 18:17:56 | 47.24 | 43.74 | 1,084 | 0.28 | 0.33 | 59.3 |
| 4/27/2015 18:17:57 | 47.57 | 44.07 | 1,078 | 0.27 | 0.33 | 59.0 |
| 4/27/2015 18:17:57 | 47.90 | 44.40 | 1,078 | 0.27 | 0.33 | 59.0 |
| 4/27/2015 18:17:57 | 48.23 | 44.73 | 1,081 | 0.28 | 0.33 | 59.1 |
| 4/27/2015 18:17:58 | 48.56 | 45.06 | 1,081 | 0.28 | 0.33 | 59.1 |
| 4/27/2015 18:17:58 | 48.88 | 45.38 | 1,076 | 0.30 | 0.32 | 58.8 |
| 4/27/2015 18:17:58 | 49.21 | 45.71 | 1,078 | 0.28 | 0.32 | 59.0 |
| 4/27/2015 18:17:59 | 49.54 | 46.04 | 1,078 | 0.28 | 0.32 | 59.0 |
| 4/27/2015 18:17:59 | 49.87 | 46.37 | 1,073 | 0.29 | 0.32 | 58.6 |
| 4/27/2015 18:17:59 | 50.20 | 46.70 | 1,073 | 0.29 | 0.32 | 58.6 |
| 4/27/2015 18:18:00 | 50.53 | 47.03 | 1,073 | 0.29 | 0.32 | 58.6 |
| 4/27/2015 18:18:00 | 50.85 | 47.35 | 1,060 | 0.26 | 0.37 | 58.0 |
| 4/27/2015 18:18:04 | 51.18 | 47.68 | 74 | 4.76 | 0.37 | 4.1 |
| 4/27/2015 18:18:04 | 51.51 | 48.01 | 183 | 2.64 | 0.36 | 10.0 |
| 4/27/2015 18:18:05 | 51.84 | 48.34 | 322 | 4.73 | 0.39 | 17.6 |
| 4/27/2015 18:18:09 | 52.17 | 48.67 | 74 | 3.88 | 0.38 | 4.1 |
| 4/27/2015 18:18:09 | 52.49 | 48.99 | 186 | 4.26 | 0.37 | 10.2 |
| 4/27/2015 18:18:10 | 52.82 | 49.32 | 360 | 4.49 | 0.39 | 19.7 |
| 4/27/2015 18:18:16 | 53.15 | 49.65 | 37 | 3.52 | 0.39 | 2.0 |
| 4/27/2015 18:18:17 | 53.48 | 49.98 | 166 | 3.75 | 0.39 | 9.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 18:18:19 | 53.81 | 50.31 | 311 | 4.32 | 0.40 | 17.0 |
| 4/27/2015 | 18:18:20 | 54.13 | 50.63 | 307 | 5.17 | 0.38 | 16.8 |
| 4/27/2015 | 18:18:20 | 54.46 | 50.96 | 321 | 3.26 | 0.38 | 17.6 |
| 4/27/2015 | 18:18:21 | 54.79 | 51.29 | 381 | 3.84 | 0.39 | 20.8 |
| 4/27/2015 | 18:18:22 | 55.12 | 51.62 | 390 | 4.91 | 0.39 | 21.3 |
| 4/27/2015 | 18:18:24 | 55.45 | 51.95 | 335 | 3.54 | 0.39 | 18.3 |
| 4/27/2015 | 18:18:25 | 55.77 | 52.27 | 303 | 3.86 | 0.40 | 16.6 |
| 4/27/2015 | 18:18:26 | 56.10 | 52.60 | 279 | 3.22 | 0.39 | 15.2 |
| 4/27/2015 | 18:18:28 | 56.43 | 52.93 | 254 | 2.89 | 0.41 | 13.9 |
| 4/27/2015 | 18:18:35 | 56.76 | 53.26 | 86 | 2.69 | 0.40 | 4.7 |
| 4/27/2015 | 18:18:38 | 57.09 | 53.59 | 108 | 3.37 | 0.41 | 5.9 |
| 4/27/2015 | 18:18:41 | 57.41 | 53.91 | 137 | 3.12 | 0.40 | 7.5 |
| 4/27/2015 | 18:18:43 | 57.74 | 54.24 | 144 | 3.44 | 0.39 | 7.9 |
| 4/27/2015 | 18:18:44 | 58.07 | 54.57 | 226 | 3.09 | 0.40 | 12.3 |
| 4/27/2015 | 18:18:45 | 58.33 | 54.83 | 260 | 5.43 | 0.40 | 14.2 |

## I116 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:15:57

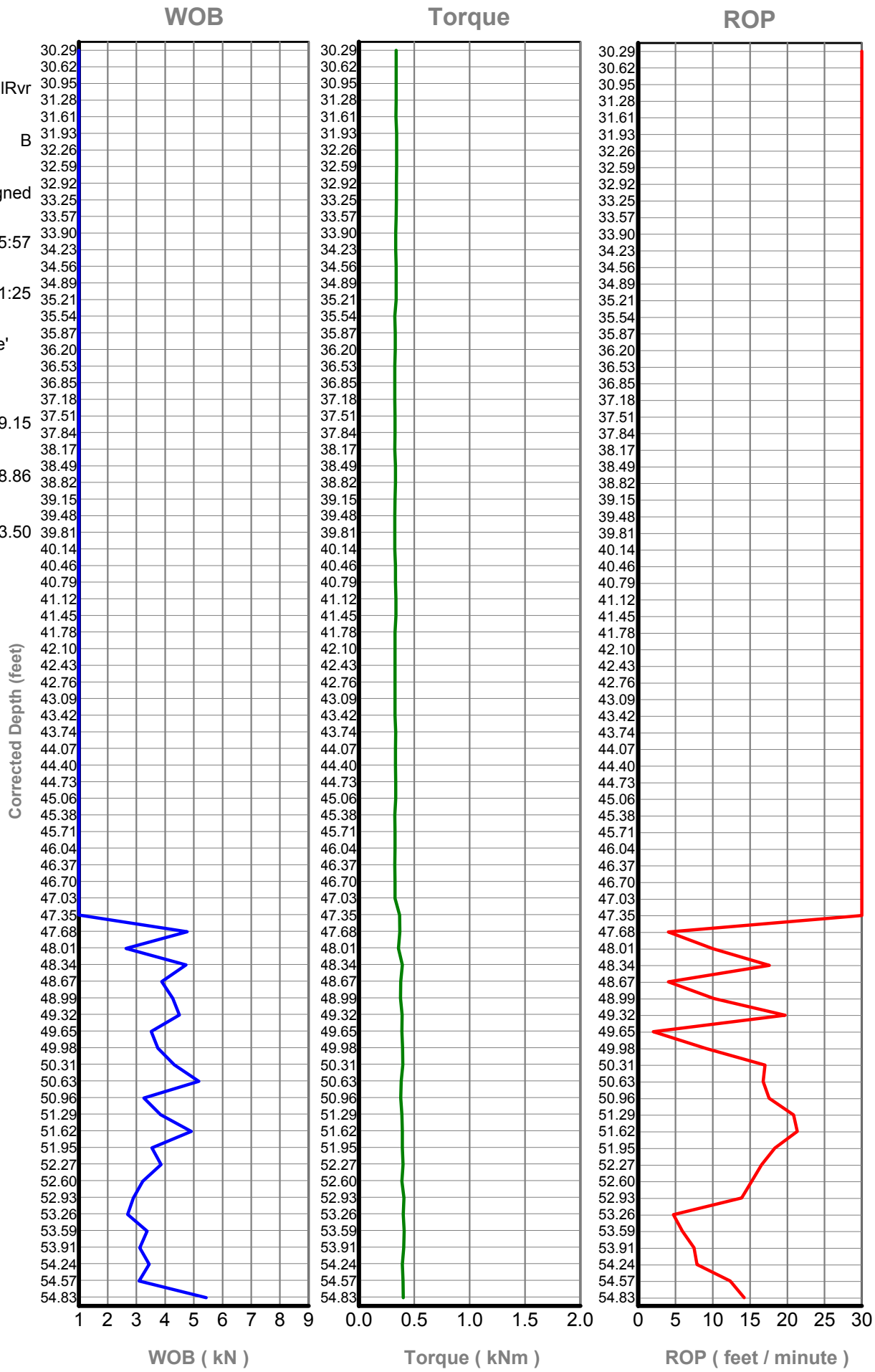
**End Date:**
4/27/2015 18:21:25

**Operator Note:**
'3.5 3.4 b Auto Complete'

**Northing:**
364,309.15

**Easting:**
248,558.86

**Tide (feet):**
3.50



## Hole: I117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 18:17:56 | 33.79 | 30.09 | 1,107 | 1.59 | 0.29 | 60.5 |
| 4/27/2015 18:17:56 | 34.12 | 30.42 | 1,101 | 1.60 | 0.29 | 60.2 |
| 4/27/2015 18:17:57 | 34.45 | 30.75 | 1,101 | 1.62 | 0.29 | 60.2 |
| 4/27/2015 18:17:57 | 34.78 | 31.08 | 1,101 | 1.62 | 0.29 | 60.2 |
| 4/27/2015 18:17:57 | 35.11 | 31.41 | 1,099 | 1.60 | 0.29 | 60.1 |
| 4/27/2015 18:17:58 | 35.43 | 31.73 | 1,099 | 1.57 | 0.29 | 60.1 |
| 4/27/2015 18:17:59 | 35.76 | 32.06 | 1,099 | 1.57 | 0.29 | 60.1 |
| 4/27/2015 18:17:59 | 36.09 | 32.39 | 1,096 | 1.62 | 0.29 | 59.9 |
| 4/27/2015 18:17:59 | 36.42 | 32.72 | 1,087 | 1.59 | 0.30 | 59.4 |
| 4/27/2015 18:18:00 | 36.75 | 33.05 | 1,087 | 1.59 | 0.30 | 59.4 |
| 4/27/2015 18:18:00 | 37.07 | 33.37 | 1,060 | 1.62 | 0.30 | 58.0 |
| 4/27/2015 18:18:00 | 37.40 | 33.70 | 1,059 | 1.60 | 0.30 | 57.9 |
| 4/27/2015 18:18:01 | 37.73 | 34.03 | 1,059 | 1.60 | 0.30 | 57.9 |
| 4/27/2015 18:18:01 | 38.06 | 34.36 | 1,044 | 1.60 | 0.29 | 57.1 |
| 4/27/2015 18:18:01 | 38.39 | 34.69 | 1,024 | 1.61 | 0.29 | 56.0 |
| 4/27/2015 18:18:02 | 38.71 | 35.01 | 1,024 | 1.61 | 0.29 | 56.0 |
| 4/27/2015 18:18:02 | 39.04 | 35.34 | 1,018 | 1.62 | 0.27 | 55.7 |
| 4/27/2015 18:18:02 | 39.37 | 35.67 | 1,021 | 1.62 | 0.29 | 55.8 |
| 4/27/2015 18:18:03 | 39.70 | 36.00 | 1,021 | 1.62 | 0.29 | 55.8 |
| 4/27/2015 18:18:03 | 40.03 | 36.33 | 1,018 | 1.60 | 0.30 | 55.7 |
| 4/27/2015 18:18:03 | 40.35 | 36.65 | 1,015 | 1.59 | 0.30 | 55.5 |
| 4/27/2015 18:18:04 | 40.68 | 36.98 | 1,015 | 1.59 | 0.30 | 55.5 |
| 4/27/2015 18:18:04 | 41.01 | 37.31 | 1,012 | 1.60 | 0.30 | 55.4 |
| 4/27/2015 18:18:04 | 41.34 | 37.64 | 1,021 | 1.60 | 0.30 | 55.8 |
| 4/27/2015 18:18:05 | 41.67 | 37.97 | 1,021 | 1.60 | 0.30 | 55.8 |
| 4/27/2015 18:18:05 | 41.99 | 38.29 | 1,015 | 1.61 | 0.30 | 55.5 |
| 4/27/2015 18:18:05 | 42.32 | 38.62 | 1,015 | 1.62 | 0.29 | 55.5 |
| 4/27/2015 18:18:06 | 42.65 | 38.95 | 1,015 | 1.62 | 0.29 | 55.5 |
| 4/27/2015 18:18:06 | 42.98 | 39.28 | 1,013 | 1.62 | 0.29 | 55.4 |
| 4/27/2015 18:18:06 | 43.31 | 39.61 | 1,015 | 1.62 | 0.29 | 55.5 |
| 4/27/2015 18:18:07 | 43.64 | 39.94 | 1,015 | 1.62 | 0.29 | 55.5 |
| 4/27/2015 18:18:07 | 43.96 | 40.26 | 1,012 | 1.62 | 0.29 | 55.4 |
| 4/27/2015 18:18:07 | 44.29 | 40.59 | 1,012 | 1.62 | 0.29 | 55.4 |
| 4/27/2015 18:18:08 | 44.62 | 40.92 | 1,012 | 1.62 | 0.29 | 55.4 |
| 4/27/2015 18:18:08 | 44.95 | 41.25 | 1,018 | 1.62 | 0.29 | 55.7 |
| 4/27/2015 18:18:09 | 45.28 | 41.58 | 1,015 | 1.63 | 0.29 | 55.5 |
| 4/27/2015 18:18:09 | 45.60 | 41.90 | 1,015 | 1.63 | 0.29 | 55.5 |
| 4/27/2015 18:18:09 | 45.93 | 42.23 | 1,015 | 1.64 | 0.29 | 55.5 |
| 4/27/2015 18:18:10 | 46.26 | 42.56 | 1,018 | 1.62 | 0.29 | 55.6 |
| 4/27/2015 18:18:10 | 46.59 | 42.89 | 1,018 | 1.62 | 0.29 | 55.6 |
| 4/27/2015 18:18:10 | 46.92 | 43.22 | 1,009 | 1.64 | 0.30 | 55.2 |
| 4/27/2015 18:18:11 | 47.24 | 43.54 | 1,033 | 1.60 | 0.30 | 56.5 |
| 4/27/2015 18:18:11 | 47.57 | 43.87 | 1,033 | 1.60 | 0.30 | 56.5 |
| 4/27/2015 18:18:11 | 47.90 | 44.20 | 1,044 | 1.60 | 0.29 | 57.1 |
| 4/27/2015 18:18:12 | 48.23 | 44.53 | 1,056 | 1.61 | 0.29 | 57.7 |
| 4/27/2015 18:18:12 | 48.56 | 44.86 | 1,056 | 1.61 | 0.29 | 57.7 |
| 4/27/2015 18:18:12 | 48.88 | 45.18 | 1,064 | 1.63 | 0.29 | 58.2 |
| 4/27/2015 18:18:13 | 49.21 | 45.51 | 1,076 | 1.66 | 0.29 | 58.8 |
| 4/27/2015 18:18:13 | 49.54 | 45.84 | 1,076 | 1.66 | 0.29 | 58.8 |
| 4/27/2015 18:18:13 | 49.87 | 46.17 | 1,023 | 1.68 | 0.30 | 55.9 |
| 4/27/2015 18:18:14 | 50.20 | 46.50 | 975 | 1.66 | 0.29 | 53.3 |
| 4/27/2015 18:18:14 | 50.53 | 46.83 | 938 | 1.71 | 0.29 | 51.3 |
| 4/27/2015 18:18:32 | 50.85 | 47.15 | 0 | 1.67 | 1.13 | 0.0 |
| 4/27/2015 18:18:33 | 51.18 | 47.48 | 106 | 1.72 | 1.24 | 5.8 |
| 4/27/2015 18:18:34 | 51.51 | 47.81 | 306 | 1.68 | 1.49 | 16.7 |
| 4/27/2015 18:18:34 | 51.84 | 48.14 | 403 | 1.71 | 1.16 | 22.0 |
| 4/27/2015 18:18:35 | 52.17 | 48.47 | 509 | 1.66 | 1.09 | 27.8 |
| 4/27/2015 18:18:36 | 52.49 | 48.79 | 494 | 1.66 | 1.22 | 27.0 |
| 4/27/2015 18:19:04 | 52.82 | 49.12 | 0 | 1.68 | 1.32 | 0.0 |
| 4/27/2015 18:19:06 | 53.15 | 49.45 | 131 | 1.66 | 1.29 | 7.2 |
| 4/27/2015 18:19:08 | 53.48 | 49.78 | 187 | 1.63 | 1.27 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 18:19:10 | 53.81 | 50.11 | 174 | 1.67 | 1.19 | 9.5 |
| 4/27/2015 | 18:19:12 | 54.13 | 50.43 | 165 | 1.65 | 1.24 | 9.0 |
| 4/27/2015 | 18:19:36 | 54.46 | 50.76 | 11 | 1.63 | 1.14 | 0.6 |
| 4/27/2015 | 18:19:38 | 54.79 | 51.09 | 153 | 1.67 | 1.18 | 8.4 |
| 4/27/2015 | 18:19:43 | 55.12 | 51.42 | 90 | 1.66 | 1.25 | 4.9 |
| 4/27/2015 | 18:19:46 | 55.45 | 51.75 | 95 | 1.66 | 1.23 | 5.2 |
| 4/27/2015 | 18:19:51 | 55.77 | 52.07 | 67 | 1.67 | 1.22 | 3.7 |
| 4/27/2015 | 18:19:58 | 56.10 | 52.40 | 60 | 1.66 | 1.33 | 3.3 |
| 4/27/2015 | 18:20:02 | 56.43 | 52.73 | 78 | 1.66 | 1.22 | 4.3 |
| 4/27/2015 | 18:20:07 | 56.76 | 53.06 | 90 | 1.65 | 1.31 | 4.9 |
| 4/27/2015 | 18:20:09 | 56.99 | 53.29 | 81 | 1.64 | 1.19 | 4.4 |

## I117 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 18:16:32

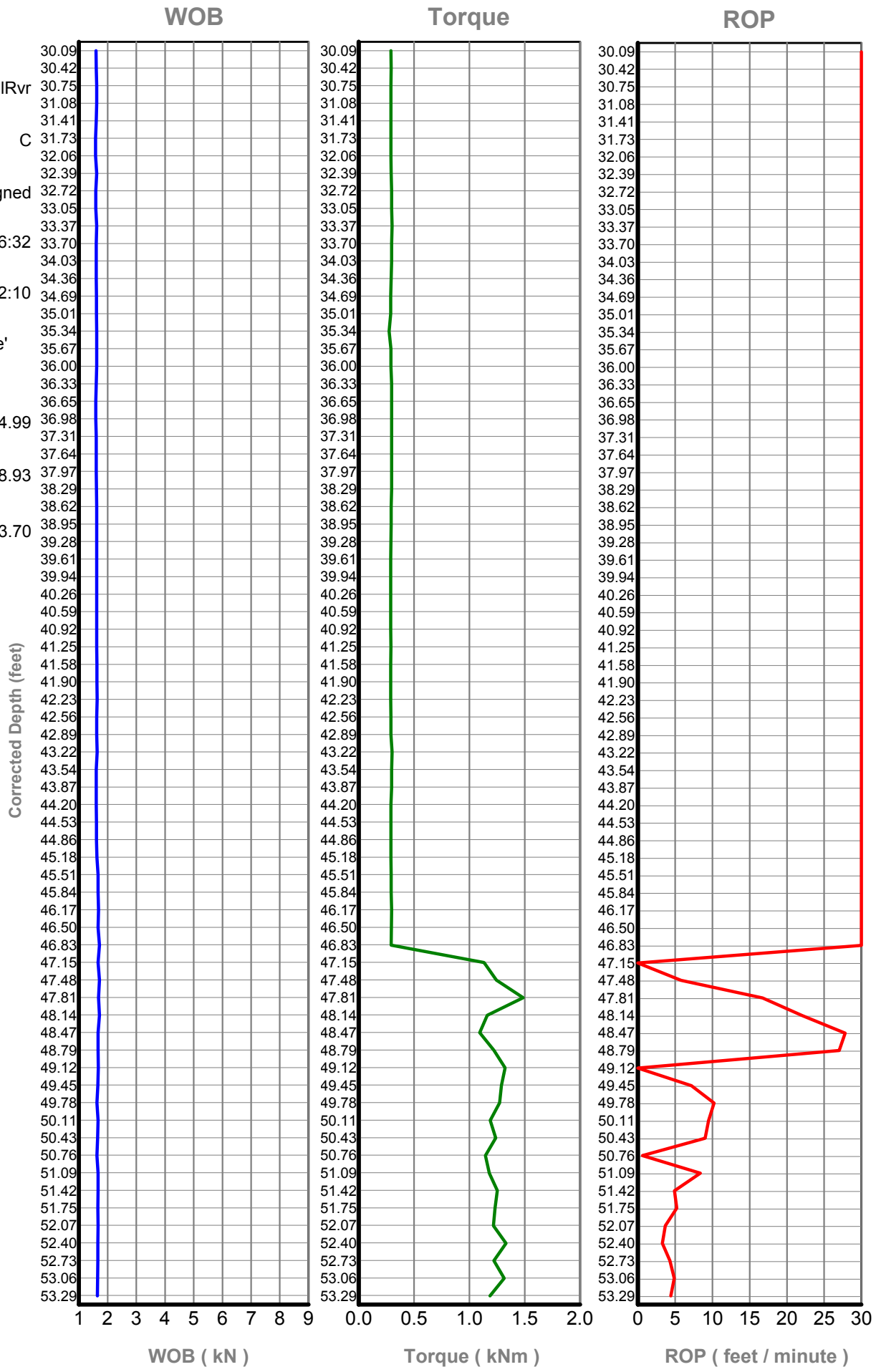
**End Date:**
4/27/2015 18:22:10

**Operator Note:**
'3.7 3.4 c Auto Complete'

**Northing:**
364,354.99

**Easting:**
248,618.93

**Tide (feet):**
3.70



## Hole: I118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:49:30 | 31.82 | 30.32 | 740 | 1.09 | 0.76 | 40.5 |
| 4/27/2015 13:49:31 | 32.15 | 30.65 | 740 | 1.09 | 0.19 | 40.5 |
| 4/27/2015 13:49:31 | 32.48 | 30.98 | 733 | 1.09 | 0.19 | 40.1 |
| 4/27/2015 13:49:32 | 32.81 | 31.31 | 743 | 1.08 | 0.19 | 40.6 |
| 4/27/2015 13:49:33 | 33.14 | 31.64 | 743 | 1.09 | 0.19 | 40.6 |
| 4/27/2015 13:49:33 | 33.46 | 31.96 | 727 | 1.09 | 0.19 | 39.7 |
| 4/27/2015 13:49:34 | 33.79 | 32.29 | 727 | 1.07 | 0.19 | 39.7 |
| 4/27/2015 13:49:34 | 34.12 | 32.62 | 734 | 1.07 | 0.19 | 40.2 |
| 4/27/2015 13:49:35 | 34.45 | 32.95 | 734 | 1.06 | 0.19 | 40.2 |
| 4/27/2015 13:49:35 | 34.78 | 33.28 | 734 | 1.06 | 0.19 | 40.2 |
| 4/27/2015 13:49:35 | 35.11 | 33.61 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 13:49:36 | 35.43 | 33.93 | 736 | 1.08 | 0.19 | 40.3 |
| 4/27/2015 13:49:36 | 35.76 | 34.26 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 13:49:37 | 36.09 | 34.59 | 760 | 1.07 | 0.19 | 41.6 |
| 4/27/2015 13:49:37 | 36.42 | 34.92 | 753 | 1.08 | 0.19 | 41.2 |
| 4/27/2015 13:49:38 | 36.75 | 35.25 | 746 | 1.07 | 0.19 | 40.8 |
| 4/27/2015 13:49:38 | 37.07 | 35.57 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 13:49:39 | 37.40 | 35.90 | 743 | 1.07 | 0.19 | 40.6 |
| 4/27/2015 13:49:39 | 37.73 | 36.23 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 13:49:40 | 38.06 | 36.56 | 750 | 1.09 | 0.19 | 41.0 |
| 4/27/2015 13:49:40 | 38.39 | 36.89 | 758 | 1.08 | 0.19 | 41.4 |
| 4/27/2015 13:49:41 | 38.71 | 37.21 | 758 | 1.08 | 0.19 | 41.4 |
| 4/27/2015 13:49:41 | 39.04 | 37.54 | 758 | 1.08 | 0.19 | 41.4 |
| 4/27/2015 13:49:41 | 39.37 | 37.87 | 766 | 1.09 | 0.19 | 41.9 |
| 4/27/2015 13:49:42 | 39.70 | 38.20 | 762 | 1.07 | 0.19 | 41.7 |
| 4/27/2015 13:49:42 | 40.03 | 38.53 | 764 | 1.08 | 0.19 | 41.8 |
| 4/27/2015 13:49:43 | 40.35 | 38.85 | 755 | 1.09 | 0.19 | 41.3 |
| 4/27/2015 13:49:44 | 40.68 | 39.18 | 750 | 1.07 | 0.19 | 41.0 |
| 4/27/2015 13:49:44 | 41.01 | 39.51 | 743 | 1.06 | 0.19 | 40.6 |
| 4/27/2015 13:49:45 | 41.34 | 39.84 | 740 | 1.06 | 0.19 | 40.5 |
| 4/27/2015 13:49:45 | 41.67 | 40.17 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 13:49:46 | 41.99 | 40.49 | 743 | 1.09 | 0.19 | 40.6 |
| 4/27/2015 13:49:46 | 42.32 | 40.82 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 13:49:47 | 42.65 | 41.15 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 13:49:47 | 42.98 | 41.48 | 749 | 1.08 | 0.19 | 40.9 |
| 4/27/2015 13:49:47 | 43.31 | 41.81 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 13:49:48 | 43.64 | 42.14 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 13:49:48 | 43.96 | 42.46 | 746 | 1.06 | 0.19 | 40.8 |
| 4/27/2015 13:49:49 | 44.29 | 42.79 | 749 | 1.09 | 0.19 | 40.9 |
| 4/27/2015 13:49:49 | 44.62 | 43.12 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 13:49:50 | 44.95 | 43.45 | 746 | 1.08 | 0.20 | 40.8 |
| 4/27/2015 13:49:50 | 45.28 | 43.78 | 729 | 1.08 | 0.19 | 39.9 |
| 4/27/2015 13:49:51 | 45.60 | 44.10 | 729 | 1.08 | 0.19 | 39.9 |
| 4/27/2015 13:49:51 | 45.93 | 44.43 | 739 | 1.07 | 0.19 | 40.4 |
| 4/27/2015 13:49:52 | 46.26 | 44.76 | 723 | 1.09 | 0.19 | 39.5 |
| 4/27/2015 13:49:52 | 46.59 | 45.09 | 710 | 1.09 | 0.19 | 38.8 |
| 4/27/2015 13:49:53 | 46.92 | 45.42 | 693 | 1.09 | 0.19 | 37.9 |
| 4/27/2015 13:49:53 | 47.24 | 45.74 | 691 | 1.09 | 0.19 | 37.8 |
| 4/27/2015 13:49:54 | 47.57 | 46.07 | 659 | 1.09 | 0.19 | 36.1 |
| 4/27/2015 13:49:55 | 47.90 | 46.40 | 646 | 1.09 | 0.19 | 35.3 |
| 4/27/2015 13:49:55 | 48.23 | 46.73 | 633 | 1.09 | 0.19 | 34.6 |
| 4/27/2015 13:49:56 | 48.56 | 47.06 | 625 | 1.09 | 0.19 | 34.2 |
| 4/27/2015 13:49:56 | 48.88 | 47.38 | 619 | 1.09 | 0.19 | 33.8 |
| 4/27/2015 13:49:57 | 49.21 | 47.71 | 616 | 1.09 | 0.19 | 33.7 |
| 4/27/2015 13:49:58 | 49.54 | 48.04 | 613 | 1.09 | 0.19 | 33.5 |
| 4/27/2015 13:49:58 | 49.87 | 48.37 | 610 | 1.09 | 0.19 | 33.4 |
| 4/27/2015 13:49:59 | 50.20 | 48.70 | 598 | 1.10 | 0.19 | 32.7 |
| 4/27/2015 13:50:14 | 50.53 | 49.03 | 32 | 1.09 | 0.88 | 1.7 |
| 4/27/2015 13:50:15 | 50.85 | 49.35 | 126 | 1.09 | 0.91 | 6.9 |
| 4/27/2015 13:50:16 | 51.18 | 49.68 | 226 | 1.09 | 0.89 | 12.3 |
| 4/27/2015 13:50:17 | 51.51 | 50.01 | 446 | 1.08 | 0.87 | 24.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:50:17 | 51.84 | 50.34 | 523 | 1.09 | 0.90 | 28.6 |
| 4/27/2015 | 13:50:18 | 52.17 | 50.67 | 534 | 1.07 | 0.84 | 29.2 |
| 4/27/2015 | 13:50:18 | 52.49 | 50.99 | 553 | 1.09 | 0.90 | 30.2 |
| 4/27/2015 | 13:50:19 | 52.82 | 51.32 | 547 | 1.11 | 1.07 | 29.9 |
| 4/27/2015 | 13:50:20 | 53.15 | 51.65 | 533 | 1.09 | 0.97 | 29.1 |
| 4/27/2015 | 13:50:21 | 53.48 | 51.98 | 385 | 1.10 | 1.10 | 21.0 |
| 4/27/2015 | 13:50:22 | 53.81 | 52.31 | 298 | 1.09 | 0.98 | 16.3 |
| 4/27/2015 | 13:50:23 | 54.13 | 52.63 | 318 | 1.11 | 1.23 | 17.4 |
| 4/27/2015 | 13:50:27 | 54.46 | 52.96 | 58 | 1.13 | 1.46 | 3.2 |
| 4/27/2015 | 13:50:31 | 54.79 | 53.29 | 70 | 1.07 | 1.37 | 3.9 |
| 4/27/2015 | 13:50:37 | 55.12 | 53.62 | 67 | 1.11 | 1.35 | 3.7 |
| 4/27/2015 | 13:50:41 | 55.45 | 53.95 | 75 | 1.09 | 1.11 | 4.1 |
| 4/27/2015 | 13:50:43 | 55.77 | 54.27 | 150 | 0.97 | 0.74 | 8.2 |
| 4/27/2015 | 13:50:44 | 56.10 | 54.60 | 228 | 1.09 | 1.09 | 12.5 |
| 4/27/2015 | 13:50:51 | 56.43 | 54.93 | 55 | 1.07 | 1.09 | 3.0 |
| 4/27/2015 | 13:50:56 | 56.76 | 55.26 | 81 | 1.05 | 1.12 | 4.4 |
| 4/27/2015 | 13:50:58 | 56.90 | 55.40 | 98 | 0.66 | 1.08 | 5.4 |

## I118 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:47:24

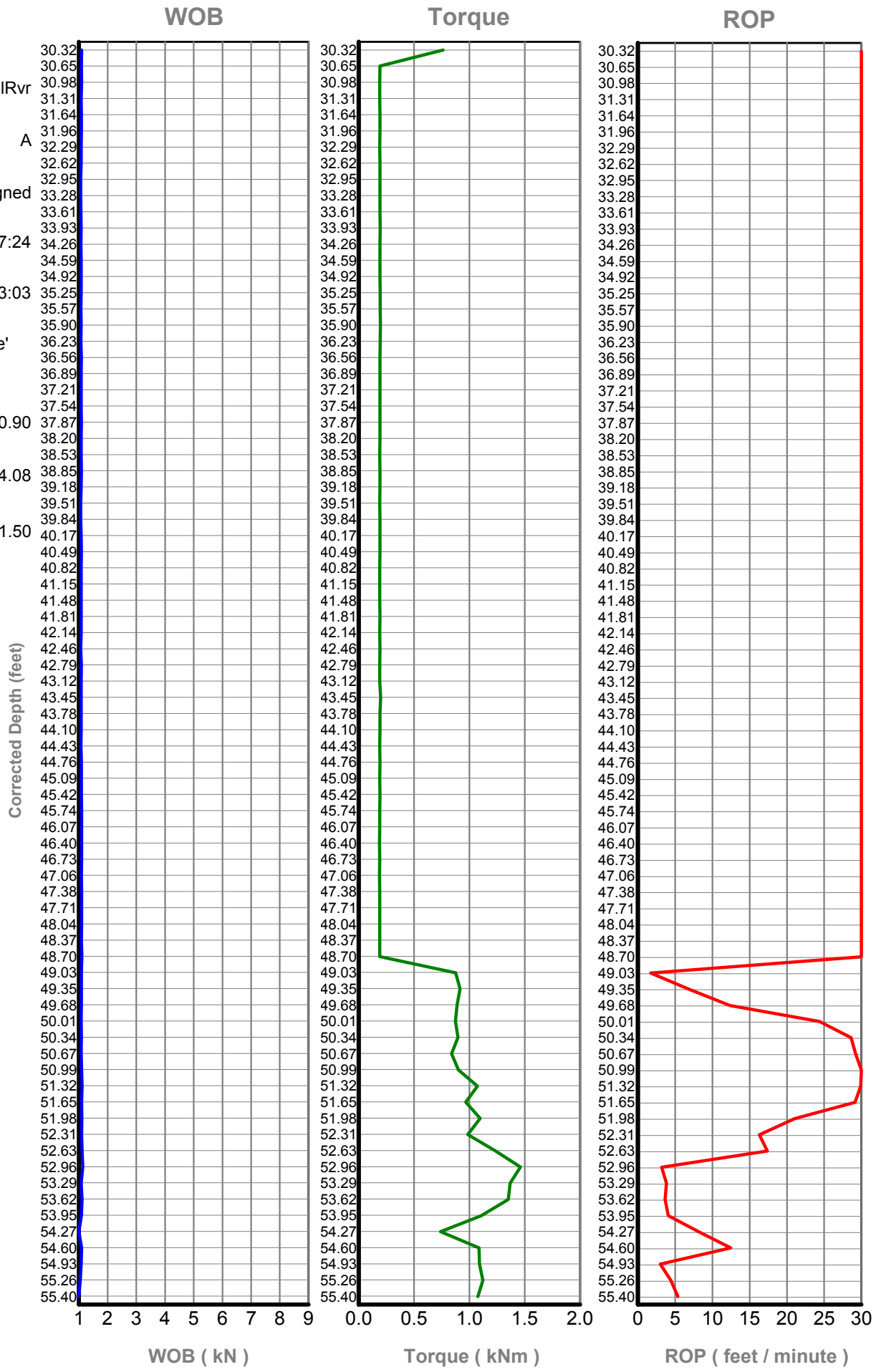
**End Date:**
4/27/2015 13:53:03

**Operator Note:**
'1.5 1.9 a Auto Complete'

**Northing:**
364,400.90

**Easting:**
248,664.08

**Tide (feet):**
1.50



## Hole: I119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:49:18 | 31.82 | 30.32 | 1,091 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 13:49:19 | 32.15 | 30.65 | 1,091 | 0.29 | 0.31 | 59.6 |
| 4/27/2015 13:49:19 | 32.48 | 30.98 | 1,133 | 0.35 | 0.31 | 62.0 |
| 4/27/2015 13:49:19 | 32.81 | 31.31 | 1,133 | 0.35 | 0.31 | 62.0 |
| 4/27/2015 13:49:19 | 33.14 | 31.64 | 1,111 | 0.29 | 0.28 | 60.8 |
| 4/27/2015 13:49:20 | 33.46 | 31.96 | 1,081 | 0.30 | 0.33 | 59.1 |
| 4/27/2015 13:49:20 | 33.79 | 32.29 | 1,081 | 0.30 | 0.33 | 59.1 |
| 4/27/2015 13:49:20 | 34.12 | 32.62 | 1,081 | 0.29 | 0.31 | 59.1 |
| 4/27/2015 13:49:21 | 34.45 | 32.95 | 1,103 | 0.29 | 0.32 | 60.3 |
| 4/27/2015 13:49:21 | 34.78 | 33.28 | 1,103 | 0.29 | 0.32 | 60.3 |
| 4/27/2015 13:49:21 | 35.11 | 33.61 | 1,113 | 0.30 | 0.31 | 60.9 |
| 4/27/2015 13:49:22 | 35.43 | 33.93 | 1,113 | 0.30 | 0.31 | 60.9 |
| 4/27/2015 13:49:22 | 35.76 | 34.26 | 1,093 | 0.30 | 0.31 | 59.8 |
| 4/27/2015 13:49:23 | 36.09 | 34.59 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 13:49:23 | 36.42 | 34.92 | 1,061 | 0.29 | 0.32 | 58.0 |
| 4/27/2015 13:49:23 | 36.75 | 35.25 | 1,061 | 0.27 | 0.31 | 58.0 |
| 4/27/2015 13:49:24 | 37.07 | 35.57 | 1,105 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 13:49:24 | 37.40 | 35.90 | 1,105 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 13:49:24 | 37.73 | 36.23 | 1,103 | 0.30 | 0.32 | 60.3 |
| 4/27/2015 13:49:25 | 38.06 | 36.56 | 1,103 | 0.30 | 0.32 | 60.3 |
| 4/27/2015 13:49:25 | 38.39 | 36.89 | 1,096 | 0.29 | 0.32 | 59.9 |
| 4/27/2015 13:49:25 | 38.71 | 37.21 | 1,102 | 0.46 | 0.32 | 60.3 |
| 4/27/2015 13:49:26 | 39.04 | 37.54 | 1,102 | 0.46 | 0.32 | 60.3 |
| 4/27/2015 13:49:26 | 39.37 | 37.87 | 1,141 | 0.28 | 0.32 | 62.4 |
| 4/27/2015 13:49:26 | 39.70 | 38.20 | 1,141 | 0.28 | 0.32 | 62.4 |
| 4/27/2015 13:49:26 | 40.03 | 38.53 | 1,120 | 0.27 | 0.31 | 61.2 |
| 4/27/2015 13:49:27 | 40.35 | 38.85 | 1,103 | 0.22 | 0.32 | 60.3 |
| 4/27/2015 13:49:27 | 40.68 | 39.18 | 1,103 | 0.22 | 0.32 | 60.3 |
| 4/27/2015 13:49:27 | 41.01 | 39.51 | 1,113 | 0.27 | 0.33 | 60.9 |
| 4/27/2015 13:49:28 | 41.34 | 39.84 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 13:49:28 | 41.67 | 40.17 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 13:49:28 | 41.99 | 40.49 | 1,100 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 13:49:29 | 42.32 | 40.82 | 1,100 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 13:49:29 | 42.65 | 41.15 | 1,114 | 0.27 | 0.31 | 60.9 |
| 4/27/2015 13:49:29 | 42.98 | 41.48 | 1,110 | 0.27 | 0.31 | 60.7 |
| 4/27/2015 13:49:30 | 43.31 | 41.81 | 1,110 | 0.27 | 0.31 | 60.7 |
| 4/27/2015 13:49:30 | 43.64 | 42.14 | 1,117 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 13:49:30 | 43.96 | 42.46 | 1,117 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 13:49:30 | 44.29 | 42.79 | 1,114 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 13:49:31 | 44.62 | 43.12 | 1,121 | 0.28 | 0.30 | 61.3 |
| 4/27/2015 13:49:31 | 44.95 | 43.45 | 1,121 | 0.28 | 0.30 | 61.3 |
| 4/27/2015 13:49:31 | 45.28 | 43.78 | 1,111 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 13:49:32 | 45.60 | 44.10 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 13:49:32 | 45.93 | 44.43 | 1,111 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 13:49:32 | 46.26 | 44.76 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 13:49:33 | 46.59 | 45.09 | 1,101 | 0.28 | 0.32 | 60.2 |
| 4/27/2015 13:49:33 | 46.92 | 45.42 | 1,104 | 0.26 | 0.35 | 60.4 |
| 4/27/2015 13:49:34 | 47.24 | 45.74 | 1,052 | 0.27 | 0.34 | 57.5 |
| 4/27/2015 13:49:34 | 47.57 | 46.07 | 983 | 0.26 | 0.35 | 53.7 |
| 4/27/2015 13:49:35 | 47.90 | 46.40 | 931 | 0.27 | 0.35 | 50.9 |
| 4/27/2015 13:49:35 | 48.23 | 46.73 | 884 | 0.26 | 0.34 | 48.3 |
| 4/27/2015 13:49:36 | 48.56 | 47.06 | 884 | 0.26 | 0.34 | 48.3 |
| 4/27/2015 13:49:36 | 48.88 | 47.38 | 833 | 0.26 | 0.34 | 45.5 |
| 4/27/2015 13:49:36 | 49.21 | 47.71 | 836 | 0.26 | 0.35 | 45.7 |
| 4/27/2015 13:49:37 | 49.54 | 48.04 | 826 | 0.26 | 0.35 | 45.2 |
| 4/27/2015 13:49:37 | 49.87 | 48.37 | 826 | 0.26 | 0.34 | 45.2 |
| 4/27/2015 13:49:38 | 50.20 | 48.70 | 826 | 0.26 | 0.34 | 45.2 |
| 4/27/2015 13:49:38 | 50.53 | 49.03 | 839 | 0.26 | 0.35 | 45.9 |
| 4/27/2015 13:49:38 | 50.85 | 49.35 | 816 | 0.27 | 0.35 | 44.6 |
| 4/27/2015 13:49:39 | 51.18 | 49.68 | 804 | 0.26 | 0.35 | 43.9 |
| 4/27/2015 13:49:39 | 51.51 | 50.01 | 767 | 0.26 | 0.35 | 41.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:49:40 | 51.84 | 50.34 | 767 | 0.26 | 0.35 | 41.9 |
| 4/27/2015 | 13:49:40 | 52.17 | 50.67 | 780 | 0.26 | 0.35 | 42.7 |
| 4/27/2015 | 13:49:41 | 52.49 | 50.99 | 745 | 0.26 | 0.35 | 40.7 |
| 4/27/2015 | 13:49:41 | 52.82 | 51.32 | 722 | 0.26 | 0.36 | 39.5 |
| 4/27/2015 | 13:49:42 | 53.15 | 51.65 | 722 | 0.26 | 0.36 | 39.5 |
| 4/27/2015 | 13:49:54 | 53.48 | 51.98 | 0 | 2.35 | 0.35 | 0.0 |
| 4/27/2015 | 13:49:55 | 53.81 | 52.31 | 137 | 2.10 | 0.34 | 7.5 |
| 4/27/2015 | 13:49:55 | 54.13 | 52.63 | 291 | 2.54 | 0.36 | 15.9 |
| 4/27/2015 | 13:49:56 | 54.46 | 52.96 | 430 | 2.71 | 0.37 | 23.5 |
| 4/27/2015 | 13:49:58 | 54.79 | 53.29 | 158 | 4.05 | 0.39 | 8.6 |
| 4/27/2015 | 13:49:59 | 55.12 | 53.62 | 160 | 2.99 | 0.37 | 8.8 |
| 4/27/2015 | 13:50:00 | 55.45 | 53.95 | 257 | 3.54 | 0.37 | 14.1 |
| 4/27/2015 | 13:50:00 | 55.77 | 54.27 | 349 | 3.35 | 0.38 | 19.1 |
| 4/27/2015 | 13:50:28 | 56.10 | 54.60 | 47 | 3.16 | 0.40 | 2.6 |
| 4/27/2015 | 13:50:29 | 56.43 | 54.93 | 102 | 4.45 | 0.39 | 5.6 |
| 4/27/2015 | 13:50:32 | 56.76 | 55.26 | 175 | 3.17 | 0.37 | 9.6 |
| 4/27/2015 | 13:50:32 | 57.09 | 55.59 | 224 | 3.20 | 0.36 | 12.2 |
| 4/27/2015 | 13:50:33 | 57.41 | 55.91 | 313 | 2.40 | 0.36 | 17.1 |
| 4/27/2015 | 13:50:33 | 57.74 | 56.24 | 407 | 2.07 | 0.36 | 22.2 |
| 4/27/2015 | 13:50:33 | 57.92 | 56.42 | 407 | 2.07 | 0.36 | 22.2 |

## I119 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:47:04

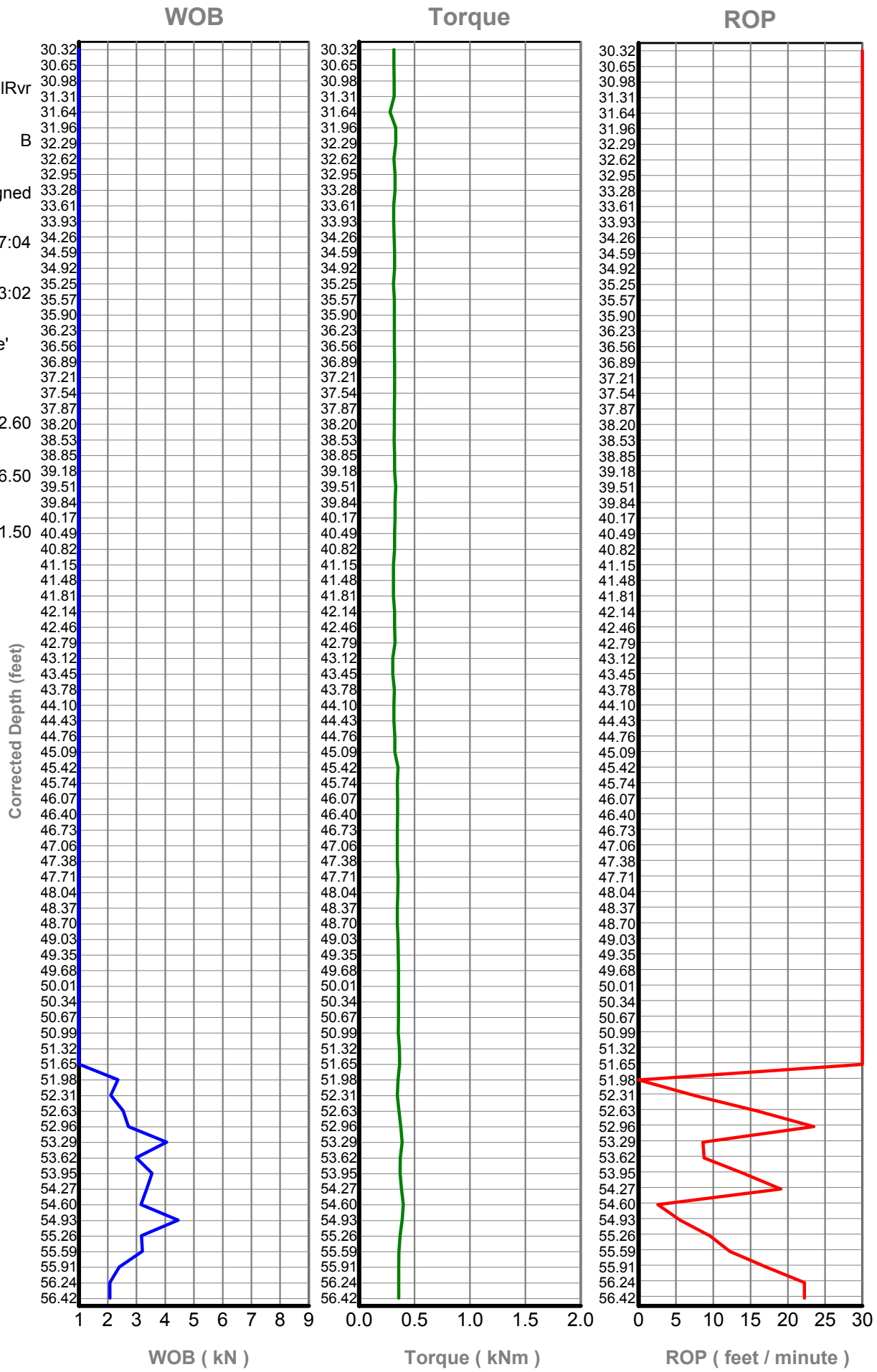
**End Date:**
4/27/2015 13:53:02

**Operator Note:**
'1.5 1.9 b Auto Complete'

**Northing:**
364,452.60

**Easting:**
248,726.50

**Tide (feet):**
1.50



## Hole: I12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:57:51 | 30.84 | 30.14 | 1,131 | 1.69 | 0.28 | 61.9 |
| 4/27/2015 15:57:52 | 31.17 | 30.47 | 1,131 | 1.69 | 0.28 | 61.9 |
| 4/27/2015 15:57:52 | 31.50 | 30.80 | 1,118 | 1.68 | 0.27 | 61.2 |
| 4/27/2015 15:57:52 | 31.82 | 31.12 | 1,139 | 1.69 | 0.27 | 62.3 |
| 4/27/2015 15:57:53 | 32.15 | 31.45 | 1,139 | 1.69 | 0.27 | 62.3 |
| 4/27/2015 15:57:53 | 32.48 | 31.78 | 1,132 | 1.64 | 0.27 | 61.9 |
| 4/27/2015 15:57:53 | 32.81 | 32.11 | 1,132 | 1.64 | 0.27 | 61.9 |
| 4/27/2015 15:57:53 | 33.14 | 32.44 | 1,133 | 1.64 | 0.28 | 61.9 |
| 4/27/2015 15:57:54 | 33.46 | 32.76 | 1,113 | 1.64 | 0.28 | 60.9 |
| 4/27/2015 15:57:54 | 33.79 | 33.09 | 1,113 | 1.64 | 0.28 | 60.9 |
| 4/27/2015 15:57:54 | 34.12 | 33.42 | 1,110 | 1.64 | 0.28 | 60.7 |
| 4/27/2015 15:57:55 | 34.45 | 33.75 | 1,110 | 1.64 | 0.28 | 60.7 |
| 4/27/2015 15:57:55 | 34.78 | 34.08 | 1,120 | 1.64 | 0.28 | 61.2 |
| 4/27/2015 15:57:55 | 35.11 | 34.41 | 1,107 | 1.61 | 0.28 | 60.5 |
| 4/27/2015 15:57:56 | 35.43 | 34.73 | 1,107 | 1.61 | 0.28 | 60.5 |
| 4/27/2015 15:57:56 | 35.76 | 35.06 | 1,100 | 1.64 | 0.27 | 60.2 |
| 4/27/2015 15:57:57 | 36.09 | 35.39 | 1,107 | 1.64 | 0.27 | 60.5 |
| 4/27/2015 15:57:57 | 36.42 | 35.72 | 1,107 | 1.64 | 0.27 | 60.5 |
| 4/27/2015 15:57:57 | 36.75 | 36.05 | 1,113 | 1.64 | 0.28 | 60.9 |
| 4/27/2015 15:57:58 | 37.07 | 36.37 | 1,113 | 1.64 | 0.28 | 60.9 |
| 4/27/2015 15:57:58 | 37.40 | 36.70 | 1,104 | 1.85 | 0.28 | 60.4 |
| 4/27/2015 15:57:58 | 37.73 | 37.03 | 1,104 | 1.61 | 0.28 | 60.4 |
| 4/27/2015 15:57:59 | 38.06 | 37.36 | 1,104 | 1.61 | 0.28 | 60.4 |
| 4/27/2015 15:57:59 | 38.39 | 37.69 | 1,101 | 1.62 | 0.28 | 60.2 |
| 4/27/2015 15:57:59 | 38.71 | 38.01 | 1,091 | 1.64 | 0.28 | 59.7 |
| 4/27/2015 15:58:00 | 39.04 | 38.34 | 1,091 | 1.64 | 0.28 | 59.7 |
| 4/27/2015 15:58:00 | 39.37 | 38.67 | 1,099 | 1.62 | 0.28 | 60.1 |
| 4/27/2015 15:58:00 | 39.70 | 39.00 | 1,099 | 1.62 | 0.28 | 60.1 |
| 4/27/2015 15:58:00 | 40.03 | 39.33 | 1,095 | 1.63 | 0.28 | 59.9 |
| 4/27/2015 15:58:01 | 40.35 | 39.65 | 1,102 | 1.64 | 0.28 | 60.3 |
| 4/27/2015 15:58:01 | 40.68 | 39.98 | 1,102 | 1.64 | 0.28 | 60.3 |
| 4/27/2015 15:58:01 | 41.01 | 40.31 | 1,105 | 1.63 | 0.28 | 60.4 |
| 4/27/2015 15:58:02 | 41.34 | 40.64 | 1,112 | 1.73 | 0.28 | 60.8 |
| 4/27/2015 15:58:15 | 41.67 | 40.97 | 29 | 1.74 | 1.19 | 1.6 |
| 4/27/2015 15:58:16 | 41.99 | 41.29 | 135 | 1.66 | 1.49 | 7.4 |
| 4/27/2015 15:58:17 | 42.32 | 41.62 | 302 | 1.74 | 1.20 | 16.5 |
| 4/27/2015 15:58:18 | 42.65 | 41.95 | 417 | 1.74 | 1.31 | 22.8 |
| 4/27/2015 15:58:18 | 42.98 | 42.28 | 526 | 1.68 | 1.29 | 28.7 |
| 4/27/2015 15:59:40 | 43.31 | 42.61 | 47 | 1.77 | 1.22 | 2.6 |
| 4/27/2015 16:00:43 | 43.64 | 42.94 | 53 | 1.72 | 1.30 | 2.9 |
| 4/27/2015 16:00:49 | 43.96 | 43.26 | 0 | 1.75 | 1.20 | 0.0 |
| 4/27/2015 16:01:23 | 44.29 | 43.59 | 10 | 1.69 | 1.10 | 0.6 |
| 4/27/2015 16:01:27 | 44.62 | 43.92 | 89 | 1.70 | 1.28 | 4.9 |
| 4/27/2015 16:01:54 | 44.95 | 44.25 | 44 | 1.60 | 1.30 | 2.4 |
| 4/27/2015 16:01:55 | 45.28 | 44.58 | 229 | 1.72 | 1.06 | 12.5 |
| 4/27/2015 16:01:56 | 45.60 | 44.90 | 335 | 1.72 | 1.13 | 18.3 |
| 4/27/2015 16:01:56 | 45.93 | 45.23 | 423 | 1.70 | 1.13 | 23.1 |
| 4/27/2015 16:01:58 | 46.26 | 45.56 | 387 | 1.73 | 1.24 | 21.2 |
| 4/27/2015 16:02:00 | 46.59 | 45.89 | 208 | 1.63 | 1.31 | 11.4 |
| 4/27/2015 16:03:10 | 46.92 | 46.22 | 8 | 1.64 | 1.21 | 0.4 |
| 4/27/2015 16:03:38 | 47.24 | 46.54 | 38 | 1.67 | 1.50 | 2.1 |
| 4/27/2015 16:03:44 | 47.57 | 46.87 | 117 | 1.64 | 1.19 | 6.4 |
| 4/27/2015 16:03:47 | 47.90 | 47.20 | 116 | 1.64 | 1.16 | 6.3 |
| 4/27/2015 16:03:51 | 48.23 | 47.53 | 97 | 1.64 | 1.14 | 5.3 |
| 4/27/2015 16:03:54 | 48.56 | 47.86 | 105 | 1.66 | 1.18 | 5.7 |
| 4/27/2015 16:03:57 | 48.88 | 48.18 | 103 | 1.64 | 1.19 | 5.7 |
| 4/27/2015 16:04:01 | 49.21 | 48.51 | 127 | 1.64 | 1.22 | 7.0 |
| 4/27/2015 16:04:03 | 49.54 | 48.84 | 130 | 1.66 | 1.29 | 7.1 |
| 4/27/2015 16:05:10 | 49.87 | 49.17 | 26 | 1.65 | 1.26 | 1.4 |
| 4/27/2015 16:05:15 | 50.20 | 49.50 | 66 | 1.64 | 1.49 | 3.6 |
| 4/27/2015 16:05:18 | 50.53 | 49.83 | 107 | 1.66 | 1.33 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:05:47 | 50.85 | 50.15 | 43 | 1.68 | 1.17 | 2.3 |
| 4/27/2015 | 16:05:48 | 51.18 | 50.48 | 216 | 1.65 | 1.14 | 11.8 |
| 4/27/2015 | 16:05:49 | 51.51 | 50.81 | 316 | 1.67 | 1.06 | 17.3 |
| 4/27/2015 | 16:05:52 | 51.84 | 51.14 | 79 | 1.66 | 1.36 | 4.3 |
| 4/27/2015 | 16:06:07 | 52.17 | 51.47 | 69 | 1.67 | 1.37 | 3.8 |
| 4/27/2015 | 16:06:13 | 52.49 | 51.79 | 58 | 1.66 | 1.45 | 3.2 |
| 4/27/2015 | 16:08:06 | 52.82 | 52.12 | 62 | 1.69 | 1.18 | 3.4 |
| 4/27/2015 | 16:08:11 | 53.15 | 52.45 | 84 | 1.68 | 1.22 | 4.6 |
| 4/27/2015 | 16:08:14 | 53.48 | 52.78 | 93 | 1.66 | 1.24 | 5.1 |
| 4/27/2015 | 16:08:16 | 53.66 | 52.96 | 88 | 1.68 | 1.20 | 4.8 |

## I12 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:55:42

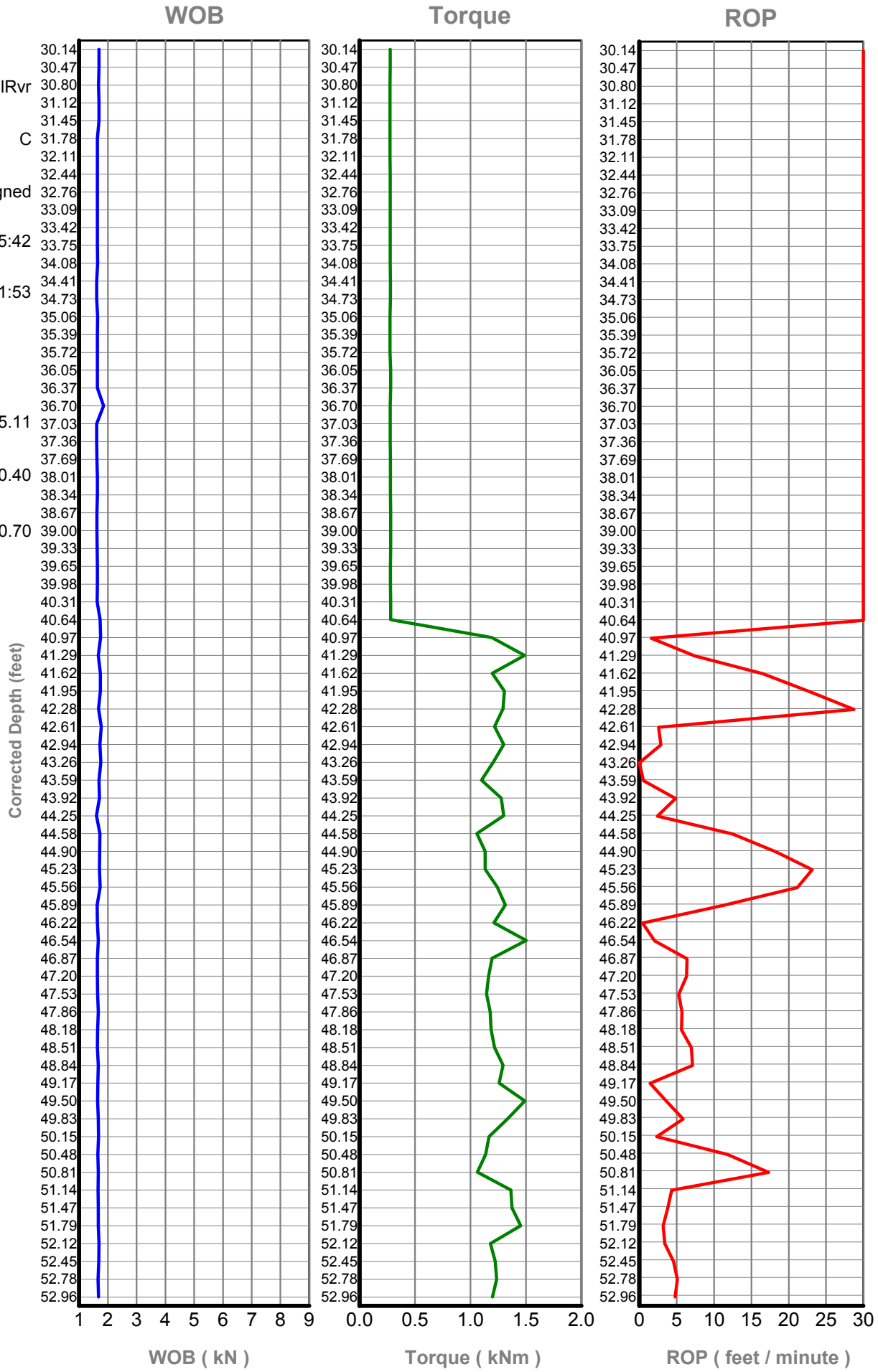
**End Date:**
4/27/2015 16:11:53

**Operator Note:**
'0.7 0.6 C Auto Complete'

**Northing:**
364,885.11

**Easting:**
248,190.40

**Tide (feet):**
0.70



## Hole: I120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:48:44 | 31.82 | 30.32 | 1,143 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 13:48:44 | 32.15 | 30.65 | 1,143 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 13:48:44 | 32.48 | 30.98 | 1,127 | 1.73 | 0.28 | 61.6 |
| 4/27/2015 13:48:45 | 32.81 | 31.31 | 1,127 | 1.73 | 0.28 | 61.6 |
| 4/27/2015 13:48:45 | 33.14 | 31.64 | 1,145 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 13:48:45 | 33.46 | 31.96 | 1,145 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 13:48:46 | 33.79 | 32.29 | 1,145 | 1.74 | 0.29 | 62.6 |
| 4/27/2015 13:48:46 | 34.12 | 32.62 | 1,148 | 1.74 | 0.28 | 62.8 |
| 4/27/2015 13:48:46 | 34.45 | 32.95 | 1,148 | 1.74 | 0.28 | 62.8 |
| 4/27/2015 13:48:46 | 34.78 | 33.28 | 1,144 | 1.72 | 0.28 | 62.6 |
| 4/27/2015 13:48:47 | 35.11 | 33.61 | 1,160 | 1.74 | 0.29 | 63.4 |
| 4/27/2015 13:48:47 | 35.43 | 33.93 | 1,160 | 1.74 | 0.29 | 63.4 |
| 4/27/2015 13:48:47 | 35.76 | 34.26 | 1,148 | 1.72 | 0.29 | 62.8 |
| 4/27/2015 13:48:48 | 36.09 | 34.59 | 1,148 | 1.72 | 0.29 | 62.8 |
| 4/27/2015 13:48:48 | 36.42 | 34.92 | 1,151 | 1.72 | 0.28 | 62.9 |
| 4/27/2015 13:48:49 | 36.75 | 35.25 | 1,148 | 1.74 | 0.29 | 62.8 |
| 4/27/2015 13:48:49 | 37.07 | 35.57 | 1,148 | 1.74 | 0.29 | 62.8 |
| 4/27/2015 13:48:49 | 37.40 | 35.90 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 13:48:50 | 37.73 | 36.23 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 13:48:50 | 38.06 | 36.56 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 13:48:50 | 38.39 | 36.89 | 1,151 | 1.73 | 0.29 | 62.9 |
| 4/27/2015 13:48:50 | 38.71 | 37.21 | 1,153 | 1.71 | 0.29 | 63.1 |
| 4/27/2015 13:48:51 | 39.04 | 37.54 | 1,147 | 1.72 | 0.29 | 62.7 |
| 4/27/2015 13:48:51 | 39.37 | 37.87 | 1,147 | 1.72 | 0.29 | 62.7 |
| 4/27/2015 13:48:51 | 39.70 | 38.20 | 1,162 | 1.74 | 0.28 | 63.5 |
| 4/27/2015 13:48:52 | 40.03 | 38.53 | 1,162 | 1.74 | 0.28 | 63.5 |
| 4/27/2015 13:48:52 | 40.35 | 38.85 | 1,162 | 1.72 | 0.29 | 63.5 |
| 4/27/2015 13:48:52 | 40.68 | 39.18 | 1,142 | 1.70 | 0.28 | 62.5 |
| 4/27/2015 13:48:53 | 41.01 | 39.51 | 1,142 | 1.70 | 0.28 | 62.5 |
| 4/27/2015 13:48:53 | 41.34 | 39.84 | 1,142 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 13:48:53 | 41.67 | 40.17 | 1,142 | 1.72 | 0.29 | 62.5 |
| 4/27/2015 13:48:53 | 41.99 | 40.49 | 1,137 | 1.71 | 0.29 | 62.2 |
| 4/27/2015 13:48:54 | 42.32 | 40.82 | 1,137 | 1.73 | 0.29 | 62.2 |
| 4/27/2015 13:48:54 | 42.65 | 41.15 | 1,137 | 1.73 | 0.29 | 62.2 |
| 4/27/2015 13:48:54 | 42.98 | 41.48 | 1,152 | 1.47 | 0.28 | 63.0 |
| 4/27/2015 13:48:55 | 43.31 | 41.81 | 1,152 | 1.47 | 0.28 | 63.0 |
| 4/27/2015 13:48:55 | 43.64 | 42.14 | 1,152 | 1.72 | 0.28 | 63.0 |
| 4/27/2015 13:48:55 | 43.96 | 42.46 | 1,149 | 1.72 | 0.28 | 62.8 |
| 4/27/2015 13:48:56 | 44.29 | 42.79 | 1,149 | 1.72 | 0.28 | 62.8 |
| 4/27/2015 13:48:56 | 44.62 | 43.12 | 1,146 | 1.71 | 0.28 | 62.6 |
| 4/27/2015 13:48:56 | 44.95 | 43.45 | 1,146 | 1.71 | 0.28 | 62.6 |
| 4/27/2015 13:48:56 | 45.28 | 43.78 | 1,146 | 1.73 | 0.28 | 62.6 |
| 4/27/2015 13:48:57 | 45.60 | 44.10 | 1,165 | 1.73 | 0.26 | 63.7 |
| 4/27/2015 13:48:57 | 45.93 | 44.43 | 1,165 | 1.73 | 0.26 | 63.7 |
| 4/27/2015 13:48:57 | 46.26 | 44.76 | 1,128 | 1.76 | 0.29 | 61.7 |
| 4/27/2015 13:48:58 | 46.59 | 45.09 | 1,090 | 1.76 | 0.29 | 59.6 |
| 4/27/2015 13:48:58 | 46.92 | 45.42 | 1,090 | 1.76 | 0.29 | 59.6 |
| 4/27/2015 13:48:59 | 47.24 | 45.74 | 1,052 | 1.76 | 0.29 | 57.6 |
| 4/27/2015 13:48:59 | 47.57 | 46.07 | 1,008 | 1.78 | 0.29 | 55.1 |
| 4/27/2015 13:49:00 | 47.90 | 46.40 | 1,008 | 1.78 | 0.29 | 55.1 |
| 4/27/2015 13:49:00 | 48.23 | 46.73 | 1,008 | 1.76 | 0.28 | 55.1 |
| 4/27/2015 13:49:00 | 48.56 | 47.06 | 954 | 1.74 | 0.28 | 52.2 |
| 4/27/2015 13:49:01 | 48.88 | 47.38 | 940 | 1.78 | 0.28 | 51.4 |
| 4/27/2015 13:49:01 | 49.21 | 47.71 | 940 | 1.78 | 0.28 | 51.4 |
| 4/27/2015 13:49:01 | 49.54 | 48.04 | 940 | 1.77 | 0.28 | 51.4 |
| 4/27/2015 13:49:02 | 49.87 | 48.37 | 932 | 1.76 | 0.28 | 51.0 |
| 4/27/2015 13:49:02 | 50.20 | 48.70 | 909 | 1.76 | 0.28 | 49.7 |
| 4/27/2015 13:49:03 | 50.53 | 49.03 | 875 | 1.75 | 0.29 | 47.9 |
| 4/27/2015 13:49:15 | 50.85 | 49.35 | 0 | 1.77 | 1.02 | 0.0 |
| 4/27/2015 13:49:16 | 51.18 | 49.68 | 80 | 1.78 | 1.05 | 4.4 |
| 4/27/2015 13:49:16 | 51.51 | 50.01 | 228 | 1.77 | 1.06 | 12.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:49:18 | 51.84 | 50.34 | 453 | 1.81 | 1.28 | 24.8 |
| 4/27/2015 | 13:49:23 | 52.17 | 50.67 | 36 | 1.76 | 1.03 | 2.0 |
| 4/27/2015 | 13:49:23 | 52.49 | 50.99 | 199 | 1.78 | 1.06 | 10.9 |
| 4/27/2015 | 13:49:24 | 52.82 | 51.32 | 199 | 1.78 | 1.06 | 10.9 |
| 4/27/2015 | 13:49:24 | 53.15 | 51.65 | 376 | 1.75 | 0.96 | 20.6 |
| 4/27/2015 | 13:49:24 | 53.48 | 51.98 | 550 | 1.78 | 1.07 | 30.1 |
| 4/27/2015 | 13:49:25 | 53.81 | 52.31 | 700 | 1.68 | 1.20 | 38.3 |
| 4/27/2015 | 13:49:50 | 54.13 | 52.63 | 73 | 1.72 | 1.49 | 4.0 |
| 4/27/2015 | 13:49:53 | 54.46 | 52.96 | 146 | 1.76 | 1.18 | 8.0 |
| 4/27/2015 | 13:49:53 | 54.79 | 53.29 | 194 | 1.69 | 1.15 | 10.6 |
| 4/27/2015 | 13:49:55 | 55.12 | 53.62 | 365 | 1.79 | 1.08 | 19.9 |
| 4/27/2015 | 13:49:55 | 55.45 | 53.95 | 409 | 1.81 | 1.25 | 22.3 |
| 4/27/2015 | 13:49:56 | 55.77 | 54.27 | 385 | 1.78 | 1.15 | 21.1 |
| 4/27/2015 | 13:49:57 | 56.10 | 54.60 | 417 | 1.79 | 1.20 | 22.8 |
| 4/27/2015 | 13:49:57 | 56.43 | 54.93 | 451 | 1.78 | 0.94 | 24.7 |
| 4/27/2015 | 13:49:58 | 56.76 | 55.26 | 471 | 1.76 | 1.11 | 25.8 |
| 4/27/2015 | 13:50:00 | 57.07 | 55.57 | 385 | 2.06 | 0.89 | 21.0 |

## I120 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:47:26

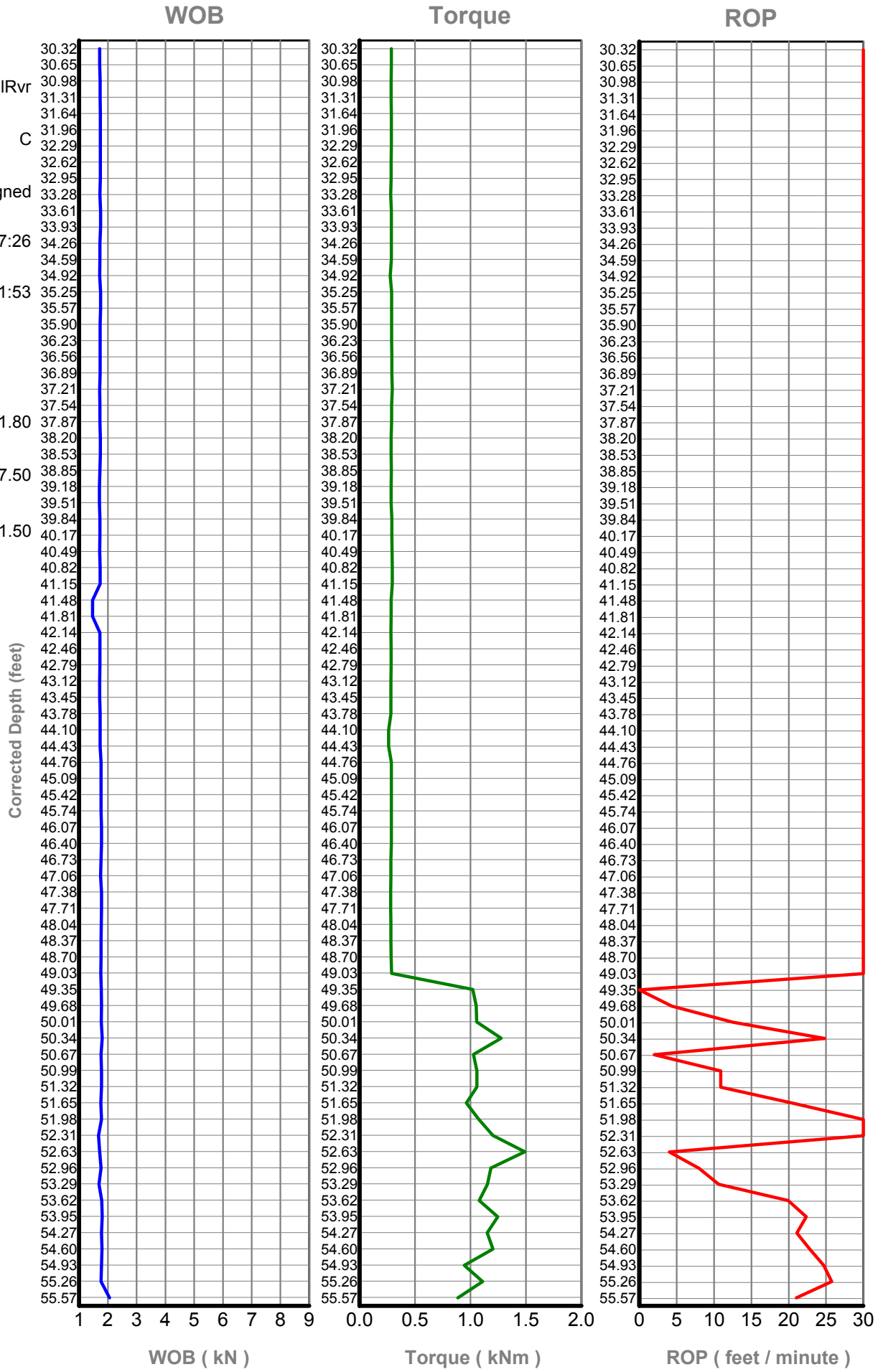
**End Date:**
4/27/2015 13:51:53

**Operator Note:**
'1.5 1.9 C Auto Complete'

**Northing:**
364,501.80

**Easting:**
248,787.50

**Tide (feet):**
1.50



## Hole: I121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:50:07 | 32.15 | 30.15 | 809 | 1.08 | 0.18 | 44.2 |
| 4/29/2015 2:50:08 | 32.48 | 30.48 | 809 | 1.08 | 0.18 | 44.2 |
| 4/29/2015 2:50:08 | 32.81 | 30.81 | 801 | 1.07 | 0.18 | 43.8 |
| 4/29/2015 2:50:08 | 33.14 | 31.14 | 801 | 1.08 | 0.18 | 43.8 |
| 4/29/2015 2:50:09 | 33.46 | 31.46 | 793 | 1.08 | 0.18 | 43.4 |
| 4/29/2015 2:50:09 | 33.79 | 31.79 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 2:50:10 | 34.12 | 32.12 | 793 | 1.06 | 0.18 | 43.4 |
| 4/29/2015 2:50:10 | 34.45 | 32.45 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 2:50:11 | 34.78 | 32.78 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 2:50:11 | 35.11 | 33.11 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 2:50:11 | 35.43 | 33.43 | 806 | 1.05 | 0.18 | 44.1 |
| 4/29/2015 2:50:12 | 35.76 | 33.76 | 801 | 1.04 | 0.18 | 43.8 |
| 4/29/2015 2:50:12 | 36.09 | 34.09 | 798 | 1.06 | 0.18 | 43.6 |
| 4/29/2015 2:50:13 | 36.42 | 34.42 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 2:50:13 | 36.75 | 34.75 | 798 | 1.07 | 0.18 | 43.6 |
| 4/29/2015 2:50:14 | 37.07 | 35.07 | 798 | 1.07 | 0.18 | 43.6 |
| 4/29/2015 2:50:14 | 37.40 | 35.40 | 798 | 1.06 | 0.18 | 43.6 |
| 4/29/2015 2:50:15 | 37.73 | 35.73 | 795 | 1.07 | 0.18 | 43.5 |
| 4/29/2015 2:50:15 | 38.06 | 36.06 | 794 | 1.07 | 0.18 | 43.4 |
| 4/29/2015 2:50:16 | 38.39 | 36.39 | 798 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 2:50:16 | 38.71 | 36.71 | 798 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 2:50:17 | 39.04 | 37.04 | 798 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 2:50:17 | 39.37 | 37.37 | 798 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 2:50:17 | 39.70 | 37.70 | 798 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 2:50:18 | 40.03 | 38.03 | 806 | 1.05 | 0.18 | 44.0 |
| 4/29/2015 2:50:18 | 40.35 | 38.35 | 801 | 1.09 | 0.18 | 43.8 |
| 4/29/2015 2:50:19 | 40.68 | 38.68 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 2:50:19 | 41.01 | 39.01 | 789 | 1.05 | 0.18 | 43.1 |
| 4/29/2015 2:50:20 | 41.34 | 39.34 | 801 | 1.07 | 0.18 | 43.8 |
| 4/29/2015 2:50:20 | 41.67 | 39.67 | 801 | 1.07 | 0.18 | 43.8 |
| 4/29/2015 2:50:20 | 41.99 | 39.99 | 796 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 2:50:21 | 42.32 | 40.32 | 796 | 1.04 | 0.18 | 43.5 |
| 4/29/2015 2:50:21 | 42.65 | 40.65 | 793 | 1.07 | 0.18 | 43.4 |
| 4/29/2015 2:50:22 | 42.98 | 40.98 | 797 | 1.12 | 0.18 | 43.6 |
| 4/29/2015 2:50:22 | 43.31 | 41.31 | 780 | 1.05 | 0.18 | 42.6 |
| 4/29/2015 2:50:23 | 43.64 | 41.64 | 793 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 2:50:23 | 43.96 | 41.96 | 781 | 1.05 | 0.18 | 42.7 |
| 4/29/2015 2:50:24 | 44.29 | 42.29 | 781 | 1.05 | 0.18 | 42.7 |
| 4/29/2015 2:50:24 | 44.62 | 42.62 | 796 | 1.06 | 0.18 | 43.5 |
| 4/29/2015 2:50:24 | 44.95 | 42.95 | 793 | 1.07 | 0.18 | 43.4 |
| 4/29/2015 2:50:25 | 45.28 | 43.28 | 803 | 1.06 | 0.18 | 43.9 |
| 4/29/2015 2:50:26 | 45.60 | 43.60 | 790 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 2:50:26 | 45.93 | 43.93 | 800 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 2:50:27 | 46.26 | 44.26 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 2:50:27 | 46.59 | 44.59 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 2:50:27 | 46.92 | 44.92 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 2:50:28 | 47.24 | 45.24 | 784 | 1.05 | 0.18 | 42.9 |
| 4/29/2015 2:50:28 | 47.57 | 45.57 | 792 | 1.04 | 0.18 | 43.3 |
| 4/29/2015 2:50:29 | 47.90 | 45.90 | 783 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 2:50:29 | 48.23 | 46.23 | 760 | 1.08 | 0.18 | 41.6 |
| 4/29/2015 2:50:30 | 48.56 | 46.56 | 728 | 1.07 | 0.18 | 39.8 |
| 4/29/2015 2:50:30 | 48.88 | 46.88 | 687 | 1.07 | 0.19 | 37.6 |
| 4/29/2015 2:50:31 | 49.21 | 47.21 | 687 | 1.07 | 0.18 | 37.6 |
| 4/29/2015 2:50:32 | 49.54 | 47.54 | 620 | 1.07 | 0.18 | 33.9 |
| 4/29/2015 2:50:32 | 49.87 | 47.87 | 608 | 1.07 | 0.18 | 33.3 |
| 4/29/2015 2:50:33 | 50.20 | 48.20 | 585 | 1.07 | 0.18 | 32.0 |
| 4/29/2015 2:50:33 | 50.53 | 48.53 | 594 | 1.08 | 0.18 | 32.5 |
| 4/29/2015 2:50:34 | 50.85 | 48.85 | 594 | 1.07 | 0.18 | 32.5 |
| 4/29/2015 2:50:35 | 51.18 | 49.18 | 579 | 1.06 | 0.18 | 31.6 |
| 4/29/2015 2:50:36 | 51.51 | 49.51 | 571 | 1.07 | 0.18 | 31.2 |
| 4/29/2015 2:50:36 | 51.84 | 49.84 | 571 | 1.08 | 0.18 | 31.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:50:37 | 52.17 | 50.17 | 566 | 1.08 | 0.18 | 31.0 |
| 4/29/2015 | 2:50:37 | 52.49 | 50.49 | 579 | 1.07 | 0.18 | 31.7 |
| 4/29/2015 | 2:50:38 | 52.82 | 50.82 | 552 | 1.08 | 0.18 | 30.2 |
| 4/29/2015 | 2:50:39 | 53.15 | 51.15 | 554 | 1.08 | 0.19 | 30.3 |
| 4/29/2015 | 2:50:39 | 53.48 | 51.48 | 538 | 1.07 | 0.18 | 29.4 |
| 4/29/2015 | 2:50:40 | 53.81 | 51.81 | 515 | 1.07 | 0.18 | 28.2 |
| 4/29/2015 | 2:50:41 | 54.13 | 52.13 | 518 | 1.07 | 0.18 | 28.3 |
| 4/29/2015 | 2:50:41 | 54.46 | 52.46 | 518 | 1.07 | 0.18 | 28.3 |
| 4/29/2015 | 2:50:42 | 54.79 | 52.79 | 509 | 1.07 | 0.18 | 27.9 |
| 4/29/2015 | 2:50:43 | 55.12 | 53.12 | 515 | 1.08 | 0.18 | 28.2 |
| 4/29/2015 | 2:50:44 | 55.45 | 53.45 | 506 | 1.07 | 0.18 | 27.7 |
| 4/29/2015 | 2:50:44 | 55.77 | 53.77 | 495 | 1.09 | 0.18 | 27.1 |
| 4/29/2015 | 2:50:45 | 56.10 | 54.10 | 495 | 1.07 | 0.18 | 27.1 |
| 4/29/2015 | 2:50:46 | 56.43 | 54.43 | 480 | 1.08 | 0.18 | 26.3 |
| 4/29/2015 | 2:50:47 | 56.76 | 54.76 | 469 | 1.07 | 0.18 | 25.7 |
| 4/29/2015 | 2:50:48 | 57.09 | 55.09 | 451 | 1.08 | 0.17 | 24.7 |
| 4/29/2015 | 2:50:49 | 57.41 | 55.41 | 437 | 1.07 | 0.17 | 23.9 |
| 4/29/2015 | 2:50:49 | 57.55 | 55.55 | 437 | 1.07 | 0.17 | 23.9 |

## I121 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:47:54

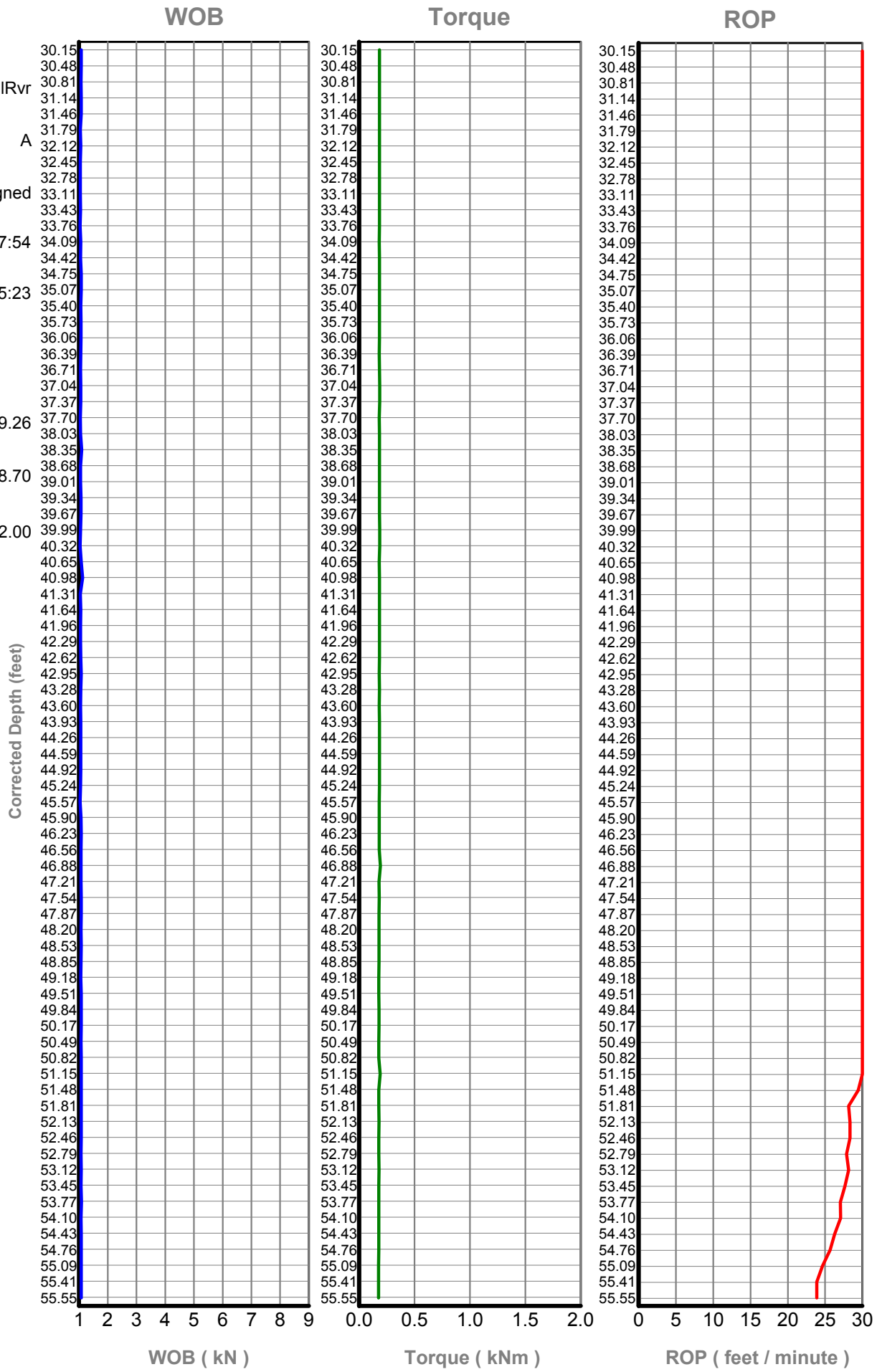
**End Date:**
4/29/2015 2:55:23

**Operator Note:**
'2 2.3 b Auto Complete'

**Northing:**
363,909.26

**Easting:**
248,188.70

**Tide (feet):**
2.00



## Hole: I122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:50:16 | 32.15 | 30.15 | 1,179 | 0.27 | 0.35 | 64.5 |
| 4/29/2015 2:50:17 | 32.48 | 30.48 | 1,190 | 0.19 | 0.36 | 65.1 |
| 4/29/2015 2:50:17 | 32.81 | 30.81 | 1,190 | 0.19 | 0.36 | 65.1 |
| 4/29/2015 2:50:17 | 33.14 | 31.14 | 1,185 | 0.28 | 0.35 | 64.8 |
| 4/29/2015 2:50:18 | 33.46 | 31.46 | 1,185 | 0.28 | 0.35 | 64.8 |
| 4/29/2015 2:50:18 | 33.79 | 31.79 | 1,182 | 0.28 | 0.35 | 64.7 |
| 4/29/2015 2:50:18 | 34.12 | 32.12 | 1,175 | 0.27 | 0.37 | 64.3 |
| 4/29/2015 2:50:19 | 34.45 | 32.45 | 1,175 | 0.27 | 0.37 | 64.3 |
| 4/29/2015 2:50:19 | 34.78 | 32.78 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:20 | 35.11 | 33.11 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:20 | 35.43 | 33.43 | 1,178 | 0.28 | 0.36 | 64.4 |
| 4/29/2015 2:50:20 | 35.76 | 33.76 | 1,178 | 0.28 | 0.36 | 64.4 |
| 4/29/2015 2:50:20 | 36.09 | 34.09 | 1,180 | 0.28 | 0.36 | 64.5 |
| 4/29/2015 2:50:21 | 36.42 | 34.42 | 1,180 | 0.26 | 0.37 | 64.5 |
| 4/29/2015 2:50:21 | 36.75 | 34.75 | 1,180 | 0.26 | 0.37 | 64.5 |
| 4/29/2015 2:50:21 | 37.07 | 35.07 | 1,193 | 0.28 | 0.36 | 65.2 |
| 4/29/2015 2:50:22 | 37.40 | 35.40 | 1,193 | 0.28 | 0.36 | 65.2 |
| 4/29/2015 2:50:22 | 37.73 | 35.73 | 1,177 | 0.28 | 0.36 | 64.3 |
| 4/29/2015 2:50:22 | 38.06 | 36.06 | 1,177 | 0.28 | 0.36 | 64.3 |
| 4/29/2015 2:50:22 | 38.39 | 36.39 | 1,177 | 0.28 | 0.36 | 64.3 |
| 4/29/2015 2:50:23 | 38.71 | 36.71 | 1,180 | 0.29 | 0.37 | 64.5 |
| 4/29/2015 2:50:23 | 39.04 | 37.04 | 1,180 | 0.29 | 0.37 | 64.5 |
| 4/29/2015 2:50:23 | 39.37 | 37.37 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:24 | 39.70 | 37.70 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:24 | 40.03 | 38.03 | 1,185 | 0.28 | 0.36 | 64.8 |
| 4/29/2015 2:50:24 | 40.35 | 38.35 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:25 | 40.68 | 38.68 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:25 | 41.01 | 39.01 | 1,197 | 0.28 | 0.36 | 65.4 |
| 4/29/2015 2:50:25 | 41.34 | 39.34 | 1,197 | 0.28 | 0.36 | 65.4 |
| 4/29/2015 2:50:25 | 41.67 | 39.67 | 1,199 | 0.28 | 0.36 | 65.6 |
| 4/29/2015 2:50:26 | 41.99 | 39.99 | 1,199 | 0.28 | 0.36 | 65.6 |
| 4/29/2015 2:50:26 | 42.32 | 40.32 | 1,191 | 0.29 | 0.36 | 65.1 |
| 4/29/2015 2:50:26 | 42.65 | 40.65 | 1,197 | 0.28 | 0.37 | 65.4 |
| 4/29/2015 2:50:27 | 42.98 | 40.98 | 1,197 | 0.28 | 0.37 | 65.4 |
| 4/29/2015 2:50:27 | 43.31 | 41.31 | 1,194 | 0.28 | 0.37 | 65.3 |
| 4/29/2015 2:50:27 | 43.64 | 41.64 | 1,194 | 0.28 | 0.37 | 65.3 |
| 4/29/2015 2:50:27 | 43.96 | 41.96 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:28 | 44.29 | 42.29 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:28 | 44.62 | 42.62 | 1,188 | 0.28 | 0.35 | 65.0 |
| 4/29/2015 2:50:28 | 44.95 | 42.95 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:29 | 45.28 | 43.28 | 1,191 | 0.28 | 0.36 | 65.1 |
| 4/29/2015 2:50:29 | 45.60 | 43.60 | 1,184 | 0.29 | 0.37 | 64.7 |
| 4/29/2015 2:50:30 | 45.93 | 43.93 | 1,184 | 0.29 | 0.37 | 64.7 |
| 4/29/2015 2:50:30 | 46.26 | 44.26 | 1,194 | 0.29 | 0.35 | 65.3 |
| 4/29/2015 2:50:30 | 46.59 | 44.59 | 1,194 | 0.29 | 0.35 | 65.3 |
| 4/29/2015 2:50:30 | 46.92 | 44.92 | 1,197 | 0.28 | 0.36 | 65.4 |
| 4/29/2015 2:50:31 | 47.24 | 45.24 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/29/2015 2:50:31 | 47.57 | 45.57 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/29/2015 2:50:31 | 47.90 | 45.90 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 2:50:32 | 48.23 | 46.23 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 2:50:32 | 48.56 | 46.56 | 1,160 | 0.27 | 0.38 | 63.4 |
| 4/29/2015 2:50:32 | 48.88 | 46.88 | 1,124 | 0.28 | 0.37 | 61.5 |
| 4/29/2015 2:50:33 | 49.21 | 47.21 | 1,124 | 0.28 | 0.37 | 61.5 |
| 4/29/2015 2:50:33 | 49.54 | 47.54 | 1,082 | 0.29 | 0.41 | 59.1 |
| 4/29/2015 2:50:34 | 49.87 | 47.87 | 796 | 0.28 | 0.38 | 43.5 |
| 4/29/2015 2:50:34 | 50.20 | 48.20 | 767 | 0.27 | 0.37 | 41.9 |
| 4/29/2015 2:50:35 | 50.53 | 48.53 | 767 | 0.27 | 0.37 | 41.9 |
| 4/29/2015 2:50:35 | 50.85 | 48.85 | 758 | 0.27 | 0.37 | 41.5 |
| 4/29/2015 2:50:35 | 51.18 | 49.18 | 758 | 0.28 | 0.38 | 41.5 |
| 4/29/2015 2:50:36 | 51.51 | 49.51 | 801 | 0.28 | 0.38 | 43.8 |
| 4/29/2015 2:50:36 | 51.84 | 49.84 | 801 | 0.28 | 0.38 | 43.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:50:36 | 52.17 | 50.17 | 957 | 0.27 | 0.38 | 52.3 |
| 4/29/2015 | 2:50:37 | 52.49 | 50.49 | 957 | 0.28 | 0.38 | 52.3 |
| 4/29/2015 | 2:50:37 | 52.82 | 50.82 | 957 | 0.28 | 0.38 | 52.3 |
| 4/29/2015 | 2:50:37 | 53.15 | 51.15 | 937 | 0.27 | 0.38 | 51.2 |
| 4/29/2015 | 2:50:38 | 53.48 | 51.48 | 920 | 0.28 | 0.38 | 50.3 |
| 4/29/2015 | 2:50:38 | 53.81 | 51.81 | 906 | 0.28 | 0.38 | 49.5 |
| 4/29/2015 | 2:50:39 | 54.13 | 52.13 | 906 | 0.27 | 0.38 | 49.5 |
| 4/29/2015 | 2:50:40 | 54.46 | 52.46 | 906 | 0.27 | 0.38 | 49.5 |
| 4/29/2015 | 2:50:39 | 54.79 | 52.79 | 892 | 0.29 | 0.39 | 48.8 |
| 4/29/2015 | 2:50:40 | 55.12 | 53.12 | 883 | 0.27 | 0.34 | 48.3 |
| 4/29/2015 | 2:50:41 | 55.45 | 53.45 | 869 | 0.27 | 0.39 | 47.5 |
| 4/29/2015 | 2:50:41 | 55.77 | 53.77 | 851 | 0.25 | 0.46 | 46.5 |
| 4/29/2015 | 2:50:48 | 56.10 | 54.10 | 69 | 5.15 | 0.39 | 3.8 |
| 4/29/2015 | 2:50:51 | 56.43 | 54.43 | 95 | 5.40 | 0.41 | 5.2 |
| 4/29/2015 | 2:50:52 | 56.76 | 54.76 | 217 | 4.46 | 0.43 | 11.9 |
| 4/29/2015 | 2:50:53 | 57.09 | 55.09 | 382 | 4.47 | 0.43 | 20.9 |
| 4/29/2015 | 2:50:53 | 57.36 | 55.36 | 402 | 4.30 | 0.41 | 22.0 |

## I122 - Summary

**Pattern Number:**
AreaI_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:48:51

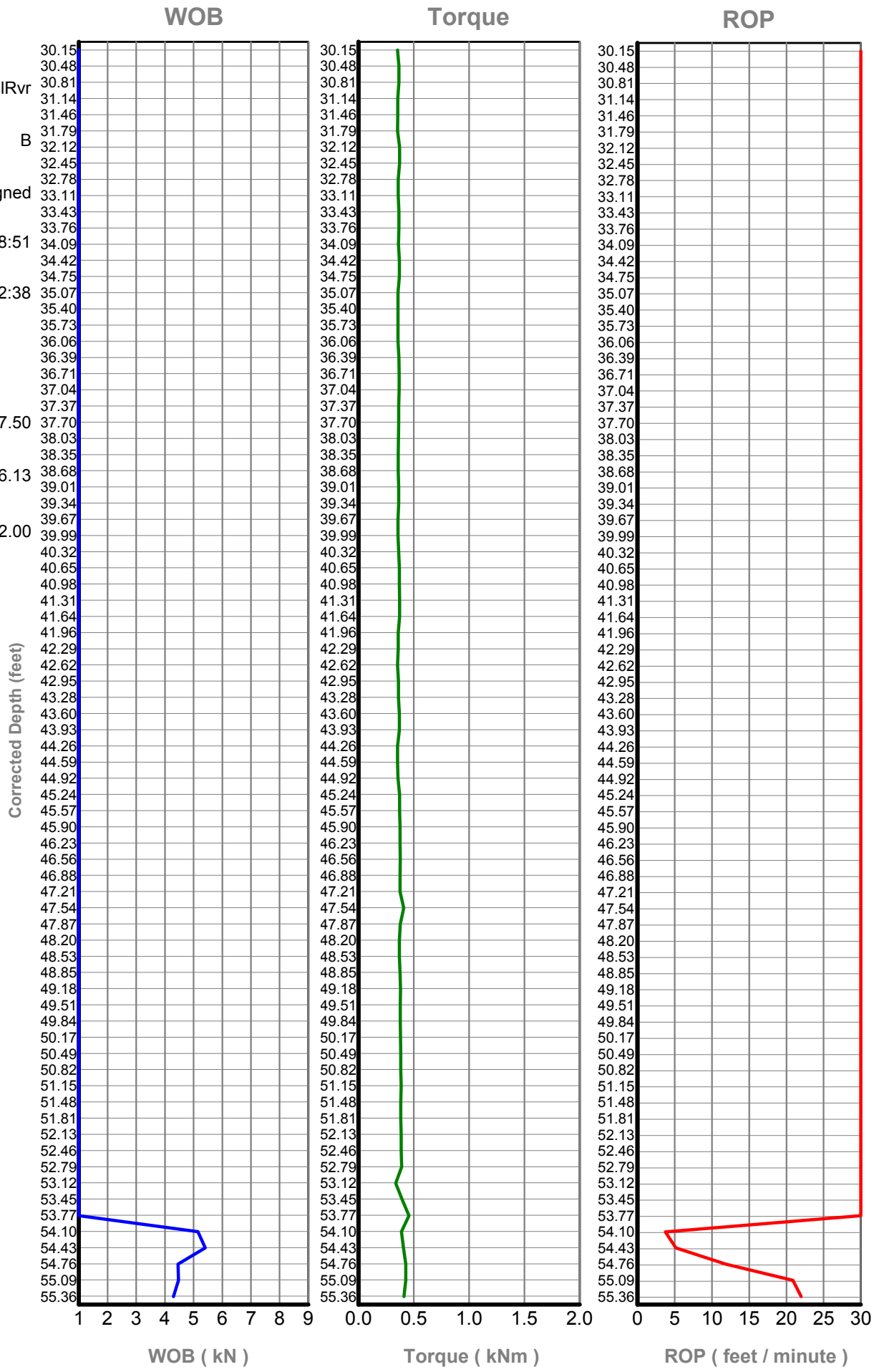
**End Date:**
4/29/2015 2:52:38

**Operator Note:**
'2 2.3b Auto Complete'

**Northing:**
363,957.50

**Easting:**
248,246.13

**Tide (feet):**
2.00



## Hole: I123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:49:19 | 32.15 | 30.15 | 1,092 | 1.59 | 0.13 | 59.7 |
| 4/29/2015 2:49:20 | 32.48 | 30.48 | 1,136 | 1.57 | 0.13 | 62.1 |
| 4/29/2015 2:49:20 | 32.81 | 30.81 | 1,136 | 1.57 | 0.13 | 62.1 |
| 4/29/2015 2:49:20 | 33.14 | 31.14 | 1,150 | 1.57 | 0.13 | 62.9 |
| 4/29/2015 2:49:21 | 33.46 | 31.46 | 1,150 | 1.57 | 0.13 | 62.9 |
| 4/29/2015 2:49:21 | 33.79 | 31.79 | 1,129 | 1.58 | 0.14 | 61.7 |
| 4/29/2015 2:49:21 | 34.12 | 32.12 | 1,141 | 1.58 | 0.13 | 62.4 |
| 4/29/2015 2:49:22 | 34.45 | 32.45 | 1,141 | 1.58 | 0.13 | 62.4 |
| 4/29/2015 2:49:22 | 34.78 | 32.78 | 1,136 | 1.57 | 0.13 | 62.1 |
| 4/29/2015 2:49:22 | 35.11 | 33.11 | 1,129 | 1.61 | 0.13 | 61.7 |
| 4/29/2015 2:49:23 | 35.43 | 33.43 | 1,129 | 1.61 | 0.13 | 61.7 |
| 4/29/2015 2:49:23 | 35.76 | 33.76 | 1,112 | 1.59 | 0.13 | 60.8 |
| 4/29/2015 2:49:23 | 36.09 | 34.09 | 1,112 | 1.59 | 0.13 | 60.8 |
| 4/29/2015 2:49:23 | 36.42 | 34.42 | 1,112 | 1.58 | 0.13 | 60.8 |
| 4/29/2015 2:49:24 | 36.75 | 34.75 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/29/2015 2:49:24 | 37.07 | 35.07 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/29/2015 2:49:24 | 37.40 | 35.40 | 1,092 | 1.58 | 0.13 | 59.7 |
| 4/29/2015 2:49:25 | 37.73 | 35.73 | 1,092 | 1.58 | 0.13 | 59.7 |
| 4/29/2015 2:49:25 | 38.06 | 36.06 | 1,092 | 1.57 | 0.14 | 59.7 |
| 4/29/2015 2:49:25 | 38.39 | 36.39 | 1,105 | 1.58 | 0.14 | 60.4 |
| 4/29/2015 2:49:26 | 38.71 | 36.71 | 1,105 | 1.58 | 0.14 | 60.4 |
| 4/29/2015 2:49:26 | 39.04 | 37.04 | 1,087 | 1.62 | 0.13 | 59.4 |
| 4/29/2015 2:49:27 | 39.37 | 37.37 | 1,078 | 1.60 | 0.13 | 58.9 |
| 4/29/2015 2:49:27 | 39.70 | 37.70 | 1,078 | 1.60 | 0.13 | 58.9 |
| 4/29/2015 2:49:27 | 40.03 | 38.03 | 1,069 | 1.60 | 0.13 | 58.4 |
| 4/29/2015 2:49:28 | 40.35 | 38.35 | 1,069 | 1.60 | 0.13 | 58.4 |
| 4/29/2015 2:49:28 | 40.68 | 38.68 | 1,094 | 1.59 | 0.14 | 59.8 |
| 4/29/2015 2:49:28 | 41.01 | 39.01 | 1,094 | 1.58 | 0.14 | 59.8 |
| 4/29/2015 2:49:29 | 41.34 | 39.34 | 1,094 | 1.58 | 0.14 | 59.8 |
| 4/29/2015 2:49:29 | 41.67 | 39.67 | 1,101 | 1.57 | 0.14 | 60.2 |
| 4/29/2015 2:49:29 | 41.99 | 39.99 | 1,101 | 1.57 | 0.14 | 60.2 |
| 4/29/2015 2:49:29 | 42.32 | 40.32 | 1,085 | 1.60 | 0.13 | 59.3 |
| 4/29/2015 2:49:30 | 42.65 | 40.65 | 1,085 | 1.57 | 0.13 | 59.3 |
| 4/29/2015 2:49:30 | 42.98 | 40.98 | 1,085 | 1.57 | 0.13 | 59.3 |
| 4/29/2015 2:49:30 | 43.31 | 41.31 | 1,115 | 1.59 | 0.13 | 61.0 |
| 4/29/2015 2:49:31 | 43.64 | 41.64 | 1,115 | 1.61 | 0.13 | 61.0 |
| 4/29/2015 2:49:31 | 43.96 | 41.96 | 1,115 | 1.61 | 0.13 | 61.0 |
| 4/29/2015 2:49:31 | 44.29 | 42.29 | 1,110 | 1.59 | 0.13 | 60.7 |
| 4/29/2015 2:49:32 | 44.62 | 42.62 | 1,110 | 1.59 | 0.13 | 60.7 |
| 4/29/2015 2:49:32 | 44.95 | 42.95 | 1,064 | 1.59 | 0.13 | 58.2 |
| 4/29/2015 2:49:32 | 45.28 | 43.28 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 2:49:33 | 45.60 | 43.60 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 2:49:33 | 45.93 | 43.93 | 1,117 | 1.59 | 0.14 | 61.1 |
| 4/29/2015 2:49:33 | 46.26 | 44.26 | 1,117 | 1.59 | 0.14 | 61.1 |
| 4/29/2015 2:49:33 | 46.59 | 44.59 | 1,090 | 1.59 | 0.13 | 59.6 |
| 4/29/2015 2:49:34 | 46.92 | 44.92 | 1,070 | 1.59 | 0.13 | 58.5 |
| 4/29/2015 2:49:34 | 47.24 | 45.24 | 1,070 | 1.59 | 0.13 | 58.5 |
| 4/29/2015 2:49:34 | 47.57 | 45.57 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 2:49:35 | 47.90 | 45.90 | 1,090 | 1.63 | 0.13 | 59.6 |
| 4/29/2015 2:49:35 | 48.23 | 46.23 | 1,090 | 1.63 | 0.13 | 59.6 |
| 4/29/2015 2:49:35 | 48.56 | 46.56 | 1,096 | 1.62 | 0.14 | 59.9 |
| 4/29/2015 2:49:36 | 48.88 | 46.88 | 1,040 | 1.64 | 0.14 | 56.9 |
| 4/29/2015 2:49:36 | 49.21 | 47.21 | 1,040 | 1.64 | 0.14 | 56.9 |
| 4/29/2015 2:49:47 | 49.54 | 47.54 | 0 | 1.63 | 0.91 | 0.0 |
| 4/29/2015 2:49:47 | 49.87 | 47.87 | 70 | 2.01 | 0.94 | 3.8 |
| 4/29/2015 2:50:12 | 50.20 | 48.20 | 49 | 1.63 | 0.84 | 2.7 |
| 4/29/2015 2:50:13 | 50.53 | 48.53 | 49 | 1.63 | 0.84 | 2.7 |
| 4/29/2015 2:50:13 | 50.85 | 48.85 | 227 | 1.64 | 0.86 | 12.4 |
| 4/29/2015 2:50:13 | 51.18 | 49.18 | 227 | 1.64 | 0.85 | 12.4 |
| 4/29/2015 2:50:14 | 51.51 | 49.51 | 421 | 1.65 | 0.84 | 23.0 |
| 4/29/2015 2:50:14 | 51.84 | 49.84 | 421 | 1.65 | 0.84 | 23.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:50:21 | 52.17 | 50.17 | 56 | 1.68 | 1.27 | 3.1 |
| 4/29/2015 | 2:50:27 | 52.49 | 50.49 | 60 | 1.66 | 1.25 | 3.3 |
| 4/29/2015 | 2:50:33 | 52.82 | 50.82 | 57 | 1.70 | 1.31 | 3.1 |
| 4/29/2015 | 2:50:38 | 53.15 | 51.15 | 83 | 1.70 | 1.32 | 4.5 |
| 4/29/2015 | 2:50:45 | 53.48 | 51.48 | 42 | 1.70 | 1.31 | 2.3 |
| 4/29/2015 | 2:50:46 | 53.53 | 51.53 | 41 | 1.72 | 1.29 | 2.2 |

## I123 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:48:03

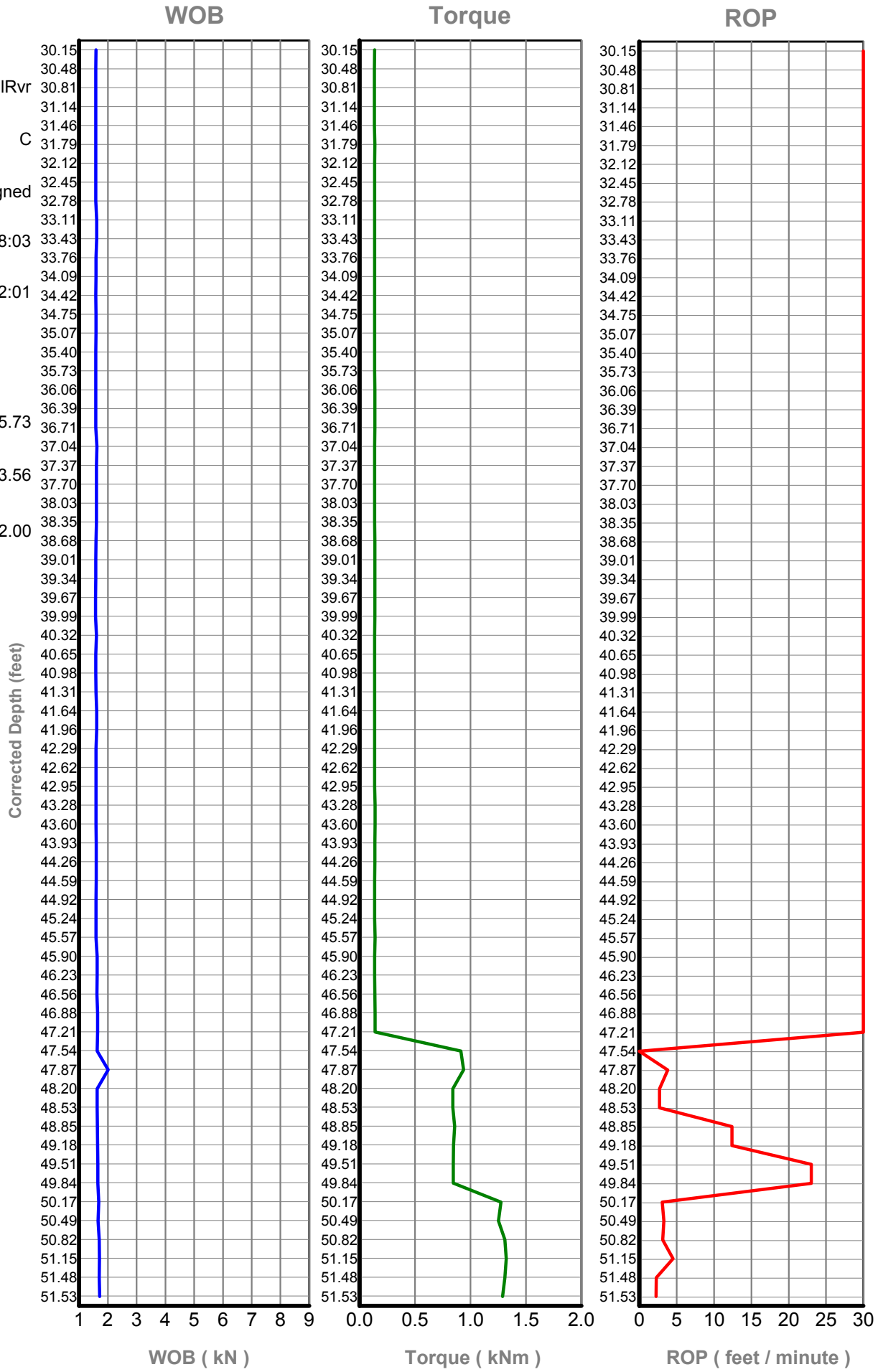
**End Date:**
4/29/2015 2:52:01

**Operator Note:**
'2 2.3 c Auto Complete'

**Northing:**
364,005.73

**Easting:**
248,303.56

**Tide (feet):**
2.00



## Hole: I124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:39:44 | 35.76 | 30.16 | 740 | 1.12 | 0.20 | 40.5 |
| 4/27/2015 20:39:45 | 36.09 | 30.49 | 743 | 1.10 | 0.20 | 40.6 |
| 4/27/2015 20:39:45 | 36.42 | 30.82 | 749 | 1.10 | 0.20 | 40.9 |
| 4/27/2015 20:39:46 | 36.75 | 31.15 | 746 | 1.09 | 0.20 | 40.8 |
| 4/27/2015 20:39:46 | 37.07 | 31.47 | 743 | 1.11 | 0.20 | 40.6 |
| 4/27/2015 20:39:47 | 37.40 | 31.80 | 741 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:48 | 37.73 | 32.13 | 746 | 1.12 | 0.20 | 40.8 |
| 4/27/2015 20:39:48 | 38.06 | 32.46 | 746 | 1.12 | 0.20 | 40.8 |
| 4/27/2015 20:39:48 | 38.39 | 32.79 | 741 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:49 | 38.71 | 33.11 | 749 | 1.11 | 0.20 | 41.0 |
| 4/27/2015 20:39:49 | 39.04 | 33.44 | 752 | 1.11 | 0.20 | 41.1 |
| 4/27/2015 20:39:50 | 39.37 | 33.77 | 755 | 1.10 | 0.20 | 41.3 |
| 4/27/2015 20:39:50 | 39.70 | 34.10 | 752 | 1.11 | 0.20 | 41.1 |
| 4/27/2015 20:39:51 | 40.03 | 34.43 | 756 | 1.13 | 0.20 | 41.4 |
| 4/27/2015 20:39:51 | 40.35 | 34.75 | 744 | 1.11 | 0.20 | 40.7 |
| 4/27/2015 20:39:52 | 40.68 | 35.08 | 749 | 1.11 | 0.20 | 40.9 |
| 4/27/2015 20:39:52 | 41.01 | 35.41 | 740 | 1.10 | 0.20 | 40.5 |
| 4/27/2015 20:39:53 | 41.34 | 35.74 | 740 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:53 | 41.67 | 36.07 | 733 | 1.11 | 0.20 | 40.1 |
| 4/27/2015 20:39:54 | 41.99 | 36.39 | 733 | 1.11 | 0.20 | 40.1 |
| 4/27/2015 20:39:54 | 42.32 | 36.72 | 740 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:54 | 42.65 | 37.05 | 737 | 1.11 | 0.20 | 40.3 |
| 4/27/2015 20:39:55 | 42.98 | 37.38 | 740 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:55 | 43.31 | 37.71 | 736 | 1.11 | 0.20 | 40.2 |
| 4/27/2015 20:39:56 | 43.64 | 38.04 | 743 | 1.11 | 0.20 | 40.6 |
| 4/27/2015 20:39:56 | 43.96 | 38.36 | 740 | 1.10 | 0.20 | 40.5 |
| 4/27/2015 20:39:57 | 44.29 | 38.69 | 740 | 1.11 | 0.20 | 40.5 |
| 4/27/2015 20:39:58 | 44.62 | 39.02 | 740 | 1.13 | 0.20 | 40.5 |
| 4/27/2015 20:39:58 | 44.95 | 39.35 | 740 | 1.12 | 0.20 | 40.5 |
| 4/27/2015 20:39:59 | 45.28 | 39.68 | 742 | 1.11 | 0.20 | 40.6 |
| 4/27/2015 20:39:59 | 45.60 | 40.00 | 737 | 1.10 | 0.20 | 40.3 |
| 4/27/2015 20:40:00 | 45.93 | 40.33 | 730 | 1.11 | 0.20 | 39.9 |
| 4/27/2015 20:40:00 | 46.26 | 40.66 | 734 | 1.11 | 0.20 | 40.2 |
| 4/27/2015 20:40:01 | 46.59 | 40.99 | 731 | 1.10 | 0.20 | 40.0 |
| 4/27/2015 20:40:01 | 46.92 | 41.32 | 731 | 1.10 | 0.20 | 40.0 |
| 4/27/2015 20:40:01 | 47.24 | 41.64 | 727 | 1.11 | 0.20 | 39.8 |
| 4/27/2015 20:40:02 | 47.57 | 41.97 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:02 | 47.90 | 42.30 | 739 | 1.11 | 0.20 | 40.4 |
| 4/27/2015 20:40:03 | 48.23 | 42.63 | 734 | 1.10 | 0.20 | 40.2 |
| 4/27/2015 20:40:03 | 48.56 | 42.96 | 734 | 1.10 | 0.20 | 40.2 |
| 4/27/2015 20:40:04 | 48.88 | 43.28 | 736 | 1.08 | 0.20 | 40.2 |
| 4/27/2015 20:40:04 | 49.21 | 43.61 | 734 | 1.10 | 0.20 | 40.1 |
| 4/27/2015 20:40:05 | 49.54 | 43.94 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:05 | 49.87 | 44.27 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:06 | 50.20 | 44.60 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:06 | 50.53 | 44.93 | 737 | 1.10 | 0.20 | 40.3 |
| 4/27/2015 20:40:07 | 50.85 | 45.25 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:07 | 51.18 | 45.58 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:08 | 51.51 | 45.91 | 731 | 1.11 | 0.20 | 40.0 |
| 4/27/2015 20:40:09 | 51.84 | 46.24 | 729 | 1.11 | 0.20 | 39.8 |
| 4/27/2015 20:40:09 | 52.17 | 46.57 | 711 | 1.11 | 0.20 | 38.9 |
| 4/27/2015 20:40:10 | 52.49 | 46.89 | 697 | 1.11 | 0.20 | 38.1 |
| 4/27/2015 20:40:10 | 52.82 | 47.22 | 675 | 1.13 | 0.21 | 36.9 |
| 4/27/2015 20:40:11 | 53.15 | 47.55 | 659 | 1.11 | 0.20 | 36.0 |
| 4/27/2015 20:40:11 | 53.48 | 47.88 | 642 | 1.11 | 0.20 | 35.1 |
| 4/27/2015 20:40:12 | 53.81 | 48.21 | 633 | 1.12 | 0.20 | 34.6 |
| 4/27/2015 20:40:12 | 54.13 | 48.53 | 627 | 1.12 | 0.20 | 34.3 |
| 4/27/2015 20:40:13 | 54.46 | 48.86 | 627 | 1.11 | 0.20 | 34.3 |
| 4/27/2015 20:40:13 | 54.79 | 49.19 | 621 | 1.11 | 0.20 | 34.0 |
| 4/27/2015 20:40:14 | 55.12 | 49.52 | 621 | 1.12 | 0.20 | 34.0 |
| 4/27/2015 20:40:15 | 55.45 | 49.85 | 619 | 1.12 | 0.20 | 33.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:40:15 | 55.77 | 50.17 | 613 | 1.12 | 0.20 | 33.5 |
| 4/27/2015 | 20:40:16 | 56.10 | 50.50 | 607 | 1.11 | 0.20 | 33.2 |
| 4/27/2015 | 20:40:16 | 56.43 | 50.83 | 598 | 1.11 | 0.20 | 32.7 |
| 4/27/2015 | 20:40:17 | 56.76 | 51.16 | 593 | 1.11 | 0.20 | 32.4 |
| 4/27/2015 | 20:40:33 | 57.09 | 51.49 | 11 | 1.13 | 1.37 | 0.6 |
| 4/27/2015 | 20:41:38 | 57.41 | 51.81 | 81 | 1.15 | 1.12 | 4.4 |
| 4/27/2015 | 20:41:42 | 57.74 | 52.14 | 101 | 1.11 | 1.13 | 5.5 |
| 4/27/2015 | 20:41:44 | 58.07 | 52.47 | 169 | 1.05 | 1.27 | 9.2 |
| 4/27/2015 | 20:41:45 | 58.40 | 52.80 | 234 | 1.14 | 1.11 | 12.8 |
| 4/27/2015 | 20:41:46 | 58.73 | 53.13 | 312 | 1.21 | 1.42 | 17.1 |
| 4/27/2015 | 20:41:51 | 59.06 | 53.46 | 11 | 1.07 | 1.14 | 0.6 |
| 4/27/2015 | 20:41:52 | 59.38 | 53.78 | 165 | 1.18 | 0.97 | 9.0 |
| 4/27/2015 | 20:41:54 | 59.71 | 54.11 | 333 | 1.07 | 1.33 | 18.2 |
| 4/27/2015 | 20:41:54 | 60.04 | 54.44 | 333 | 1.03 | 1.20 | 18.2 |
| 4/27/2015 | 20:41:55 | 60.37 | 54.77 | 325 | 1.09 | 1.13 | 17.8 |
| 4/27/2015 | 20:41:57 | 60.51 | 54.91 | 191 | 1.19 | 1.27 | 10.4 |
| 4/27/2015 | 20:58:48 | 60.70 | 55.10 | 345 | 4.68 | 0.40 | 18.8 |

## I124 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:55:58

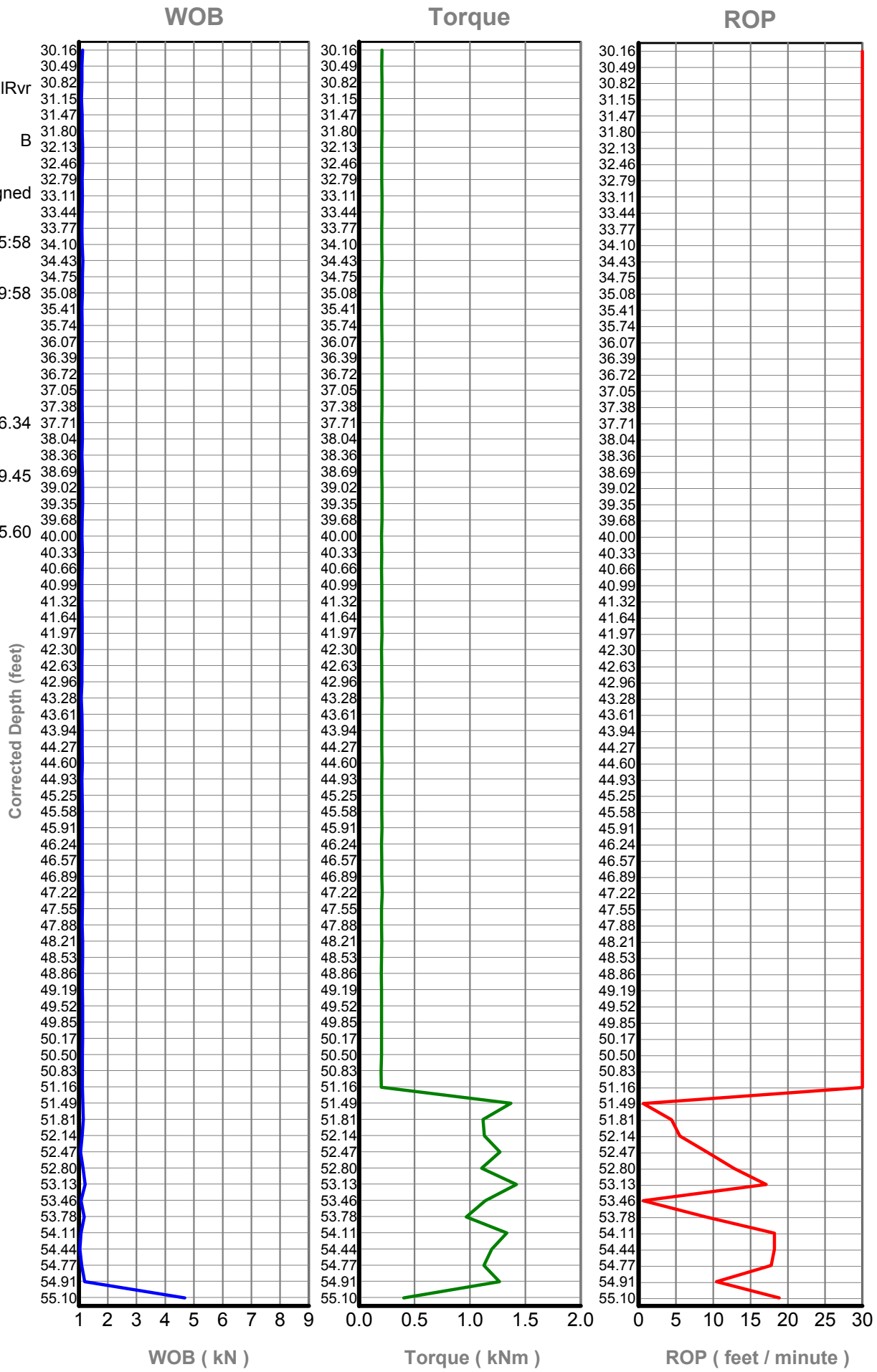
**End Date:**
4/27/2015 20:59:58

**Operator Note:**
'5.6 '5.5 5.6b Auto Complete'

**Northing:**
364,046.34

**Easting:**
248,359.45

**Tide (feet):**
5.60



## Hole: I125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:31:07 | 35.76 | 30.26 | 1,024 | 0.31 | 0.33 | 56.0 |
| 4/27/2015 20:31:07 | 36.09 | 30.59 | 1,024 | 0.31 | 0.33 | 56.0 |
| 4/27/2015 20:31:07 | 36.42 | 30.92 | 1,024 | 0.32 | 0.34 | 56.0 |
| 4/27/2015 20:31:08 | 36.75 | 31.25 | 1,033 | 0.32 | 0.33 | 56.5 |
| 4/27/2015 20:31:08 | 37.07 | 31.57 | 1,033 | 0.32 | 0.33 | 56.5 |
| 4/27/2015 20:31:08 | 37.40 | 31.90 | 1,039 | 0.32 | 0.33 | 56.8 |
| 4/27/2015 20:31:09 | 37.73 | 32.23 | 1,027 | 0.32 | 0.33 | 56.2 |
| 4/27/2015 20:31:09 | 38.06 | 32.56 | 1,027 | 0.32 | 0.33 | 56.2 |
| 4/27/2015 20:31:09 | 38.39 | 32.89 | 1,030 | 0.31 | 0.33 | 56.3 |
| 4/27/2015 20:31:10 | 38.71 | 33.21 | 1,053 | 0.31 | 0.33 | 57.6 |
| 4/27/2015 20:31:10 | 39.04 | 33.54 | 1,053 | 0.31 | 0.33 | 57.6 |
| 4/27/2015 20:31:10 | 39.37 | 33.87 | 1,044 | 0.31 | 0.34 | 57.1 |
| 4/27/2015 20:31:11 | 39.70 | 34.20 | 1,044 | 0.32 | 0.33 | 57.1 |
| 4/27/2015 20:31:11 | 40.03 | 34.53 | 1,044 | 0.32 | 0.33 | 57.1 |
| 4/27/2015 20:31:11 | 40.35 | 34.85 | 1,049 | 0.32 | 0.33 | 57.4 |
| 4/27/2015 20:31:12 | 40.68 | 35.18 | 1,058 | 0.32 | 0.33 | 57.9 |
| 4/27/2015 20:31:12 | 41.01 | 35.51 | 1,058 | 0.32 | 0.33 | 57.9 |
| 4/27/2015 20:31:12 | 41.34 | 35.84 | 1,047 | 0.32 | 0.34 | 57.2 |
| 4/27/2015 20:31:13 | 41.67 | 36.17 | 1,047 | 0.32 | 0.33 | 57.2 |
| 4/27/2015 20:31:13 | 41.99 | 36.49 | 1,047 | 0.32 | 0.33 | 57.2 |
| 4/27/2015 20:31:13 | 42.32 | 36.82 | 1,041 | 0.31 | 0.33 | 56.9 |
| 4/27/2015 20:31:14 | 42.65 | 37.15 | 1,047 | 0.31 | 0.33 | 57.2 |
| 4/27/2015 20:31:15 | 42.98 | 37.48 | 1,047 | 0.31 | 0.33 | 57.2 |
| 4/27/2015 20:31:15 | 43.31 | 37.81 | 1,041 | 0.32 | 0.33 | 56.9 |
| 4/27/2015 20:31:15 | 43.64 | 38.14 | 1,044 | 0.32 | 0.34 | 57.1 |
| 4/27/2015 20:31:16 | 43.96 | 38.46 | 1,044 | 0.32 | 0.34 | 57.1 |
| 4/27/2015 20:31:16 | 44.29 | 38.79 | 1,044 | 0.31 | 0.33 | 57.1 |
| 4/27/2015 20:31:16 | 44.62 | 39.12 | 1,053 | 0.31 | 0.34 | 57.6 |
| 4/27/2015 20:31:17 | 44.95 | 39.45 | 1,053 | 0.31 | 0.34 | 57.6 |
| 4/27/2015 20:31:17 | 45.28 | 39.78 | 1,041 | 0.32 | 0.33 | 56.9 |
| 4/27/2015 20:31:17 | 45.60 | 40.10 | 1,032 | 0.31 | 0.33 | 56.4 |
| 4/27/2015 20:31:18 | 45.93 | 40.43 | 1,032 | 0.31 | 0.33 | 56.4 |
| 4/27/2015 20:31:18 | 46.26 | 40.76 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/27/2015 20:31:18 | 46.59 | 41.09 | 1,038 | 0.31 | 0.34 | 56.8 |
| 4/27/2015 20:31:18 | 46.92 | 41.42 | 1,038 | 0.34 | 0.33 | 56.8 |
| 4/27/2015 20:31:19 | 47.24 | 41.74 | 1,035 | 0.31 | 0.34 | 56.6 |
| 4/27/2015 20:31:19 | 47.57 | 42.07 | 1,035 | 0.31 | 0.34 | 56.6 |
| 4/27/2015 20:31:19 | 47.90 | 42.40 | 1,035 | 0.31 | 0.33 | 56.6 |
| 4/27/2015 20:31:20 | 48.23 | 42.73 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/27/2015 20:31:20 | 48.56 | 43.06 | 1,032 | 0.31 | 0.34 | 56.4 |
| 4/27/2015 20:31:20 | 48.88 | 43.38 | 1,032 | 0.31 | 0.33 | 56.4 |
| 4/27/2015 20:31:21 | 49.21 | 43.71 | 1,029 | 0.31 | 0.33 | 56.3 |
| 4/27/2015 20:31:21 | 49.54 | 44.04 | 1,012 | 0.31 | 0.33 | 55.3 |
| 4/27/2015 20:31:22 | 49.87 | 44.37 | 1,012 | 0.31 | 0.33 | 55.3 |
| 4/27/2015 20:31:22 | 50.20 | 44.70 | 1,027 | 0.31 | 0.34 | 56.2 |
| 4/27/2015 20:31:22 | 50.53 | 45.03 | 1,027 | 0.31 | 0.34 | 56.2 |
| 4/27/2015 20:31:22 | 50.85 | 45.35 | 1,030 | 0.31 | 0.34 | 56.3 |
| 4/27/2015 20:31:23 | 51.18 | 45.68 | 1,027 | 0.31 | 0.33 | 56.2 |
| 4/27/2015 20:31:23 | 51.51 | 46.01 | 1,027 | 0.31 | 0.34 | 56.2 |
| 4/27/2015 20:31:24 | 51.84 | 46.34 | 1,027 | 0.31 | 0.34 | 56.2 |
| 4/27/2015 20:31:24 | 52.17 | 46.67 | 1,036 | 0.31 | 0.34 | 56.6 |
| 4/27/2015 20:31:24 | 52.49 | 46.99 | 1,036 | 0.31 | 0.34 | 56.6 |
| 4/27/2015 20:31:25 | 52.82 | 47.32 | 1,029 | 0.31 | 0.33 | 56.3 |
| 4/27/2015 20:31:25 | 53.15 | 47.65 | 1,026 | 0.31 | 0.34 | 56.1 |
| 4/27/2015 20:31:26 | 53.48 | 47.98 | 1,026 | 0.31 | 0.36 | 56.1 |
| 4/27/2015 20:31:26 | 53.81 | 48.31 | 1,026 | 0.31 | 0.36 | 56.1 |
| 4/27/2015 20:31:31 | 54.13 | 48.63 | 0 | 4.71 | 0.38 | 0.0 |
| 4/27/2015 20:31:33 | 54.46 | 48.96 | 99 | 4.15 | 0.39 | 5.4 |
| 4/27/2015 20:31:34 | 54.79 | 49.29 | 194 | 3.21 | 0.38 | 10.6 |
| 4/27/2015 20:31:34 | 55.12 | 49.62 | 251 | 2.81 | 0.36 | 13.7 |
| 4/27/2015 20:31:36 | 55.45 | 49.95 | 335 | 2.63 | 0.35 | 18.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:31:37 | 55.77 | 50.27 | 376 | 4.14 | 0.36 | 20.5 |
| 4/27/2015 | 20:31:37 | 56.10 | 50.60 | 426 | 4.93 | 0.38 | 23.3 |
| 4/27/2015 | 20:31:40 | 56.43 | 50.93 | 124 | 4.49 | 0.39 | 6.8 |
| 4/27/2015 | 20:31:41 | 56.76 | 51.26 | 186 | 3.62 | 0.38 | 10.2 |
| 4/27/2015 | 20:31:41 | 57.09 | 51.59 | 261 | 4.00 | 0.37 | 14.2 |
| 4/27/2015 | 20:31:42 | 57.41 | 51.91 | 408 | 3.70 | 0.38 | 22.3 |
| 4/27/2015 | 20:31:43 | 57.74 | 52.24 | 474 | 3.90 | 0.38 | 25.9 |
| 4/27/2015 | 20:31:44 | 58.07 | 52.57 | 471 | 4.74 | 0.41 | 25.8 |
| 4/27/2015 | 20:31:46 | 58.40 | 52.90 | 223 | 3.95 | 0.40 | 12.2 |
| 4/27/2015 | 20:31:49 | 58.73 | 53.23 | 150 | 5.52 | 0.42 | 8.2 |
| 4/27/2015 | 20:31:50 | 59.06 | 53.56 | 172 | 4.34 | 0.38 | 9.4 |
| 4/27/2015 | 20:31:51 | 59.38 | 53.88 | 251 | 3.64 | 0.39 | 13.7 |
| 4/27/2015 | 20:31:53 | 59.71 | 54.21 | 292 | 3.18 | 0.40 | 15.9 |
| 4/27/2015 | 20:31:55 | 60.04 | 54.54 | 129 | 5.97 | 0.40 | 7.1 |
| 4/27/2015 | 20:31:57 | 60.37 | 54.87 | 208 | 3.43 | 0.41 | 11.4 |
| 4/27/2015 | 20:31:58 | 60.47 | 54.97 | 200 | 4.12 | 0.42 | 10.9 |

## I125 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:29:29

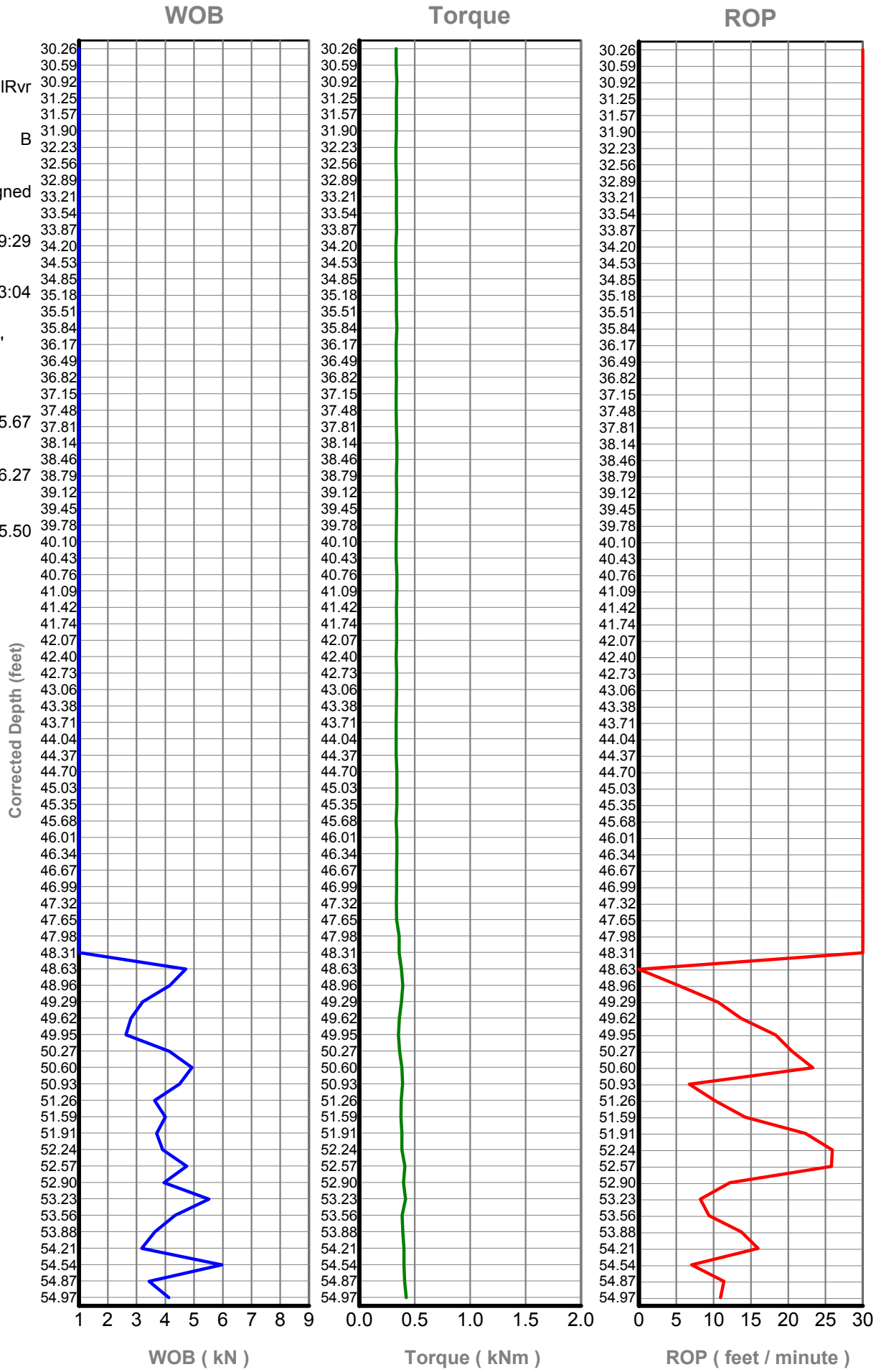
**End Date:**
4/27/2015 20:33:04

**Operator Note:**
'5.5 5.5b Auto Complete'

**Northing:**
364,095.67

**Easting:**
248,416.27

**Tide (feet):**
5.50



## Hole: I126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:33:14 | 35.76 | 30.26 | 690 | 1.14 | 0.82 | 37.7 |
| 4/27/2015 20:33:15 | 36.09 | 30.59 | 698 | 1.15 | 0.82 | 38.2 |
| 4/27/2015 20:33:15 | 36.42 | 30.92 | 691 | 1.15 | 0.82 | 37.8 |
| 4/27/2015 20:33:16 | 36.75 | 31.25 | 691 | 1.15 | 0.81 | 37.8 |
| 4/27/2015 20:33:16 | 37.07 | 31.57 | 688 | 1.17 | 0.82 | 37.6 |
| 4/27/2015 20:33:17 | 37.40 | 31.90 | 688 | 1.15 | 0.82 | 37.6 |
| 4/27/2015 20:33:17 | 37.73 | 32.23 | 684 | 1.25 | 0.83 | 37.4 |
| 4/27/2015 20:33:18 | 38.06 | 32.56 | 691 | 1.13 | 0.82 | 37.8 |
| 4/27/2015 20:33:18 | 38.39 | 32.89 | 694 | 1.13 | 0.81 | 37.9 |
| 4/27/2015 20:33:19 | 38.71 | 33.21 | 697 | 1.14 | 0.82 | 38.1 |
| 4/27/2015 20:33:19 | 39.04 | 33.54 | 694 | 1.13 | 0.82 | 37.9 |
| 4/27/2015 20:33:20 | 39.37 | 33.87 | 698 | 1.13 | 0.81 | 38.2 |
| 4/27/2015 20:33:20 | 39.70 | 34.20 | 694 | 1.13 | 0.81 | 37.9 |
| 4/27/2015 20:33:21 | 40.03 | 34.53 | 694 | 1.14 | 0.82 | 37.9 |
| 4/27/2015 20:33:21 | 40.35 | 34.85 | 691 | 1.13 | 0.82 | 37.8 |
| 4/27/2015 20:33:22 | 40.68 | 35.18 | 691 | 1.13 | 0.82 | 37.8 |
| 4/27/2015 20:33:23 | 41.01 | 35.51 | 684 | 1.13 | 0.88 | 37.4 |
| 4/27/2015 20:33:23 | 41.34 | 35.84 | 688 | 1.16 | 0.81 | 37.6 |
| 4/27/2015 20:33:24 | 41.67 | 36.17 | 685 | 1.13 | 0.81 | 37.5 |
| 4/27/2015 20:33:24 | 41.99 | 36.49 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:25 | 42.32 | 36.82 | 685 | 1.14 | 0.81 | 37.5 |
| 4/27/2015 20:33:25 | 42.65 | 37.15 | 685 | 1.13 | 0.82 | 37.5 |
| 4/27/2015 20:33:26 | 42.98 | 37.48 | 685 | 1.05 | 0.81 | 37.5 |
| 4/27/2015 20:33:26 | 43.31 | 37.81 | 688 | 1.13 | 0.81 | 37.6 |
| 4/27/2015 20:33:27 | 43.64 | 38.14 | 684 | 1.13 | 0.81 | 37.4 |
| 4/27/2015 20:33:27 | 43.96 | 38.46 | 685 | 1.19 | 0.81 | 37.5 |
| 4/27/2015 20:33:28 | 44.29 | 38.79 | 685 | 1.13 | 0.80 | 37.5 |
| 4/27/2015 20:33:28 | 44.62 | 39.12 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:29 | 44.95 | 39.45 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:29 | 45.28 | 39.78 | 685 | 1.13 | 0.81 | 37.5 |
| 4/27/2015 20:33:30 | 45.60 | 40.10 | 682 | 1.19 | 0.81 | 37.3 |
| 4/27/2015 20:33:30 | 45.93 | 40.43 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:31 | 46.26 | 40.76 | 678 | 1.14 | 0.81 | 37.1 |
| 4/27/2015 20:33:31 | 46.59 | 41.09 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:32 | 46.92 | 41.42 | 676 | 1.13 | 0.81 | 37.0 |
| 4/27/2015 20:33:33 | 47.24 | 41.74 | 679 | 1.13 | 0.81 | 37.2 |
| 4/27/2015 20:33:33 | 47.57 | 42.07 | 679 | 1.13 | 0.80 | 37.2 |
| 4/27/2015 20:33:34 | 47.90 | 42.40 | 682 | 1.15 | 0.82 | 37.3 |
| 4/27/2015 20:33:34 | 48.23 | 42.73 | 679 | 1.13 | 0.81 | 37.1 |
| 4/27/2015 20:33:35 | 48.56 | 43.06 | 685 | 1.13 | 0.81 | 37.5 |
| 4/27/2015 20:33:35 | 48.88 | 43.38 | 681 | 1.14 | 0.81 | 37.2 |
| 4/27/2015 20:33:36 | 49.21 | 43.71 | 685 | 1.13 | 0.81 | 37.5 |
| 4/27/2015 20:33:36 | 49.54 | 44.04 | 682 | 1.13 | 0.81 | 37.3 |
| 4/27/2015 20:33:37 | 49.87 | 44.37 | 682 | 1.13 | 0.80 | 37.3 |
| 4/27/2015 20:33:37 | 50.20 | 44.70 | 679 | 1.15 | 0.81 | 37.1 |
| 4/27/2015 20:33:44 | 50.53 | 45.03 | 12 | 1.17 | 1.03 | 0.6 |
| 4/27/2015 20:39:27 | 50.85 | 45.35 | 1,026 | 1.62 | 0.15 | 56.1 |
| 4/27/2015 20:39:28 | 51.18 | 45.68 | 1,026 | 1.62 | 0.15 | 56.1 |
| 4/27/2015 20:39:28 | 51.51 | 46.01 | 1,032 | 1.66 | 0.15 | 56.5 |
| 4/27/2015 20:39:28 | 51.84 | 46.34 | 1,000 | 1.66 | 0.15 | 54.7 |
| 4/27/2015 20:39:29 | 52.17 | 46.67 | 969 | 1.66 | 0.15 | 53.0 |
| 4/27/2015 20:39:29 | 52.49 | 46.99 | 969 | 1.66 | 0.15 | 53.0 |
| 4/27/2015 20:39:29 | 52.82 | 47.32 | 914 | 1.67 | 0.15 | 50.0 |
| 4/27/2015 20:39:30 | 53.15 | 47.65 | 914 | 1.66 | 0.15 | 50.0 |
| 4/27/2015 20:39:30 | 53.48 | 47.98 | 893 | 1.63 | 0.15 | 48.8 |
| 4/27/2015 20:39:31 | 53.81 | 48.31 | 846 | 1.67 | 0.15 | 46.3 |
| 4/27/2015 20:39:31 | 54.13 | 48.63 | 829 | 1.67 | 0.15 | 45.4 |
| 4/27/2015 20:39:32 | 54.46 | 48.96 | 829 | 1.67 | 0.15 | 45.4 |
| 4/27/2015 20:39:32 | 54.79 | 49.29 | 823 | 1.66 | 0.15 | 45.0 |
| 4/27/2015 20:39:40 | 55.12 | 49.62 | 106 | 1.66 | 1.30 | 5.8 |
| 4/27/2015 20:39:41 | 55.45 | 49.95 | 219 | 1.68 | 1.36 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:39:51 | 55.77 | 50.27 | 24 | 1.66 | 1.33 | 1.3 |
| 4/27/2015 | 20:39:52 | 56.10 | 50.60 | 64 | 1.71 | 1.29 | 3.5 |
| 4/27/2015 | 20:39:53 | 56.43 | 50.93 | 234 | 1.68 | 1.24 | 12.8 |
| 4/27/2015 | 20:40:06 | 56.76 | 51.26 | 29 | 1.65 | 1.32 | 1.6 |
| 4/27/2015 | 20:40:07 | 57.09 | 51.59 | 177 | 1.68 | 1.27 | 9.7 |
| 4/27/2015 | 20:40:08 | 57.41 | 51.91 | 273 | 1.66 | 1.26 | 14.9 |
| 4/27/2015 | 20:40:09 | 57.74 | 52.24 | 321 | 1.72 | 1.16 | 17.6 |
| 4/27/2015 | 20:40:09 | 58.07 | 52.57 | 361 | 1.67 | 1.18 | 19.7 |
| 4/27/2015 | 20:40:10 | 58.40 | 52.90 | 449 | 1.69 | 1.26 | 24.5 |
| 4/27/2015 | 20:40:18 | 58.73 | 53.23 | 109 | 1.68 | 1.34 | 6.0 |
| 4/27/2015 | 20:40:19 | 59.06 | 53.56 | 251 | 1.66 | 1.31 | 13.7 |
| 4/27/2015 | 20:40:20 | 59.38 | 53.88 | 274 | 1.66 | 1.41 | 15.0 |
| 4/27/2015 | 20:40:21 | 59.71 | 54.21 | 256 | 1.67 | 1.17 | 14.0 |
| 4/27/2015 | 20:40:22 | 60.04 | 54.54 | 317 | 1.67 | 1.24 | 17.3 |
| 4/27/2015 | 20:40:24 | 60.37 | 54.87 | 261 | 1.68 | 1.31 | 14.3 |
| 4/27/2015 | 20:40:25 | 60.50 | 55.00 | 147 | 1.66 | 1.30 | 8.0 |

## I126 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:37:43

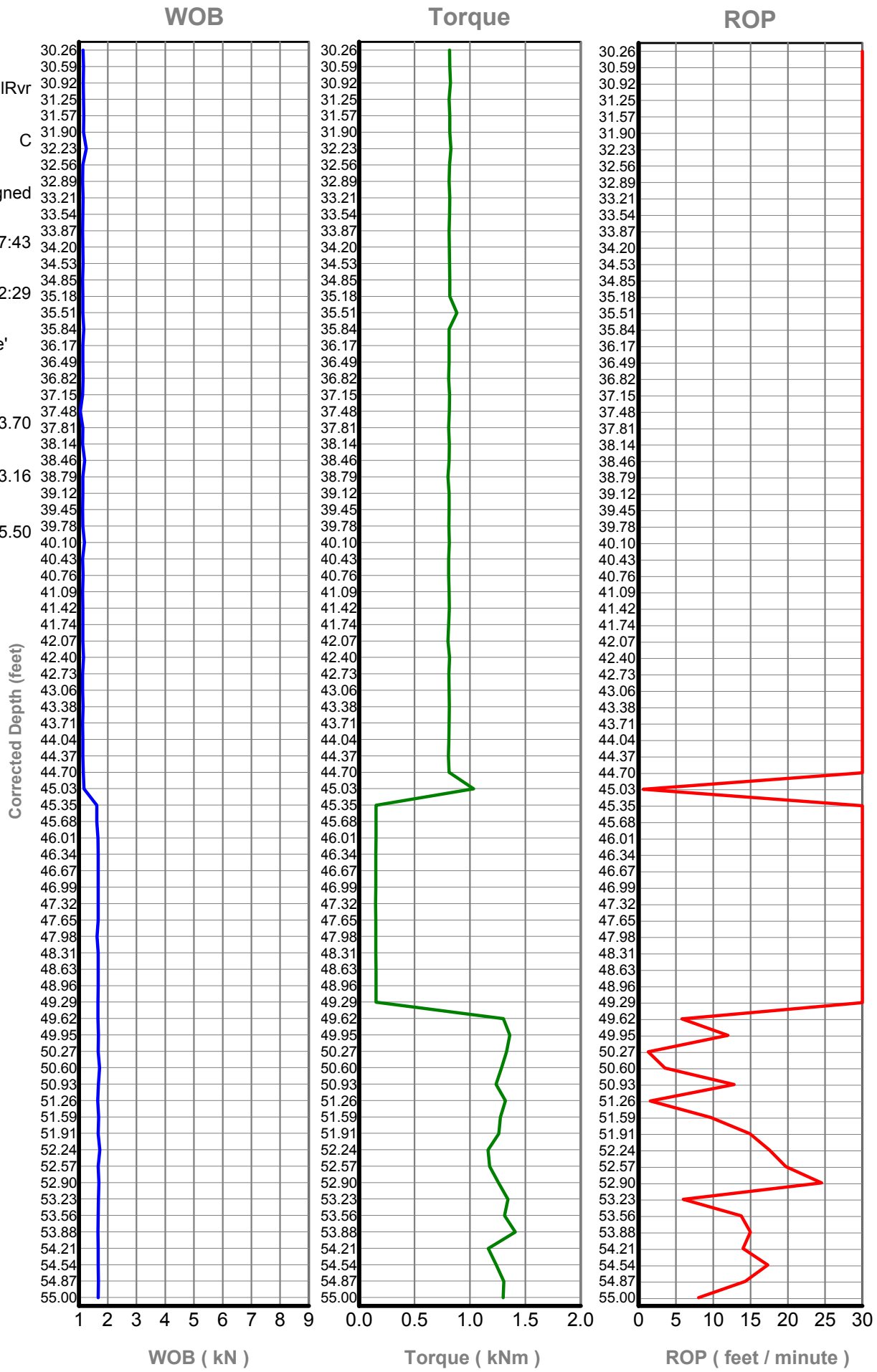
**End Date:**
4/27/2015 20:42:29

**Operator Note:**
'5.5 5.5 c Auto Complete'

**Northing:**
364,143.70

**Easting:**
248,473.16

**Tide (feet):**
5.50



## Hole: I127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:09:50 | 35.43 | 30.03 | 980 | 0.36 | 0.34 | 53.6 |
| 4/27/2015 20:09:50 | 35.76 | 30.36 | 983 | 0.36 | 0.34 | 53.8 |
| 4/27/2015 20:09:51 | 36.09 | 30.69 | 983 | 0.36 | 0.34 | 53.8 |
| 4/27/2015 20:09:51 | 36.42 | 31.02 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:51 | 36.75 | 31.35 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:52 | 37.07 | 31.67 | 968 | 0.36 | 0.34 | 52.9 |
| 4/27/2015 20:09:52 | 37.40 | 32.00 | 968 | 0.36 | 0.34 | 52.9 |
| 4/27/2015 20:09:52 | 37.73 | 32.33 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:53 | 38.06 | 32.66 | 968 | 0.36 | 0.35 | 53.0 |
| 4/27/2015 20:09:54 | 38.39 | 32.99 | 968 | 0.36 | 0.35 | 53.0 |
| 4/27/2015 20:09:54 | 38.71 | 33.31 | 968 | 0.31 | 0.34 | 53.0 |
| 4/27/2015 20:09:54 | 39.04 | 33.64 | 968 | 0.35 | 0.35 | 53.0 |
| 4/27/2015 20:09:55 | 39.37 | 33.97 | 968 | 0.35 | 0.35 | 53.0 |
| 4/27/2015 20:09:55 | 39.70 | 34.30 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:55 | 40.03 | 34.63 | 971 | 0.37 | 0.34 | 53.1 |
| 4/27/2015 20:09:56 | 40.35 | 34.95 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:56 | 40.68 | 35.28 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:56 | 41.01 | 35.61 | 974 | 0.41 | 0.34 | 53.3 |
| 4/27/2015 20:09:57 | 41.34 | 35.94 | 983 | 0.37 | 0.34 | 53.7 |
| 4/27/2015 20:09:57 | 41.67 | 36.27 | 983 | 0.37 | 0.34 | 53.7 |
| 4/27/2015 20:09:57 | 41.99 | 36.59 | 977 | 0.37 | 0.34 | 53.4 |
| 4/27/2015 20:09:58 | 42.32 | 36.92 | 980 | 0.36 | 0.34 | 53.6 |
| 4/27/2015 20:09:58 | 42.65 | 37.25 | 980 | 0.36 | 0.34 | 53.6 |
| 4/27/2015 20:09:58 | 42.98 | 37.58 | 977 | 0.36 | 0.34 | 53.4 |
| 4/27/2015 20:09:59 | 43.31 | 37.91 | 983 | 0.36 | 0.34 | 53.7 |
| 4/27/2015 20:09:59 | 43.64 | 38.24 | 971 | 0.36 | 0.34 | 53.1 |
| 4/27/2015 20:10:00 | 43.96 | 38.56 | 971 | 0.36 | 0.34 | 53.1 |
| 4/27/2015 20:10:00 | 44.29 | 38.89 | 968 | 0.36 | 0.34 | 53.0 |
| 4/27/2015 20:10:00 | 44.62 | 39.22 | 960 | 0.36 | 0.34 | 52.5 |
| 4/27/2015 20:10:01 | 44.95 | 39.55 | 960 | 0.36 | 0.34 | 52.5 |
| 4/27/2015 20:10:01 | 45.28 | 39.88 | 969 | 0.37 | 0.34 | 53.0 |
| 4/27/2015 20:10:01 | 45.60 | 40.20 | 963 | 0.37 | 0.34 | 52.6 |
| 4/27/2015 20:10:02 | 45.93 | 40.53 | 966 | 0.36 | 0.34 | 52.8 |
| 4/27/2015 20:10:02 | 46.26 | 40.86 | 966 | 0.36 | 0.34 | 52.8 |
| 4/27/2015 20:10:02 | 46.59 | 41.19 | 966 | 0.36 | 0.34 | 52.8 |
| 4/27/2015 20:10:03 | 46.92 | 41.52 | 974 | 0.37 | 0.34 | 53.3 |
| 4/27/2015 20:10:04 | 47.24 | 41.84 | 974 | 0.37 | 0.34 | 53.3 |
| 4/27/2015 20:10:03 | 47.57 | 42.17 | 963 | 0.36 | 0.34 | 52.6 |
| 4/27/2015 20:10:04 | 47.90 | 42.50 | 963 | 0.36 | 0.34 | 52.6 |
| 4/27/2015 20:10:05 | 48.23 | 42.83 | 963 | 0.36 | 0.34 | 52.6 |
| 4/27/2015 20:10:05 | 48.56 | 43.16 | 963 | 0.36 | 0.34 | 52.6 |
| 4/27/2015 20:10:05 | 48.88 | 43.48 | 963 | 0.36 | 0.34 | 52.6 |
| 4/27/2015 20:10:06 | 49.21 | 43.81 | 957 | 0.36 | 0.34 | 52.3 |
| 4/27/2015 20:10:06 | 49.54 | 44.14 | 957 | 0.36 | 0.34 | 52.3 |
| 4/27/2015 20:10:06 | 49.87 | 44.47 | 946 | 0.36 | 0.34 | 51.7 |
| 4/27/2015 20:10:07 | 50.20 | 44.80 | 938 | 0.37 | 0.34 | 51.3 |
| 4/27/2015 20:10:07 | 50.53 | 45.13 | 938 | 0.36 | 0.34 | 51.3 |
| 4/27/2015 20:10:08 | 50.85 | 45.45 | 938 | 0.36 | 0.34 | 51.3 |
| 4/27/2015 20:10:08 | 51.18 | 45.78 | 947 | 0.36 | 0.37 | 51.8 |
| 4/27/2015 20:10:13 | 51.51 | 46.11 | 79 | 3.72 | 0.40 | 4.3 |
| 4/27/2015 20:10:14 | 51.84 | 46.44 | 208 | 3.51 | 0.39 | 11.4 |
| 4/27/2015 20:10:15 | 52.17 | 46.77 | 283 | 3.43 | 0.38 | 15.5 |
| 4/27/2015 20:10:16 | 52.49 | 47.09 | 359 | 4.38 | 0.39 | 19.7 |
| 4/27/2015 20:10:21 | 52.82 | 47.42 | 69 | 4.59 | 0.41 | 3.8 |
| 4/27/2015 20:10:23 | 53.15 | 47.75 | 109 | 4.05 | 0.38 | 6.0 |
| 4/27/2015 20:10:23 | 53.48 | 48.08 | 196 | 4.71 | 0.39 | 10.7 |
| 4/27/2015 20:10:25 | 53.81 | 48.41 | 294 | 5.52 | 0.38 | 16.1 |
| 4/27/2015 20:10:32 | 54.13 | 48.73 | 0 | 4.49 | 0.41 | 0.0 |
| 4/27/2015 20:10:37 | 54.46 | 49.06 | 86 | 3.97 | 0.39 | 4.7 |
| 4/27/2015 20:10:38 | 54.79 | 49.39 | 162 | 3.31 | 0.38 | 8.9 |
| 4/27/2015 20:10:39 | 55.12 | 49.72 | 244 | 3.31 | 0.38 | 13.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:10:39 | 55.45 | 50.05 | 324 | 3.41 | 0.38 | 17.7 |
| 4/27/2015 | 20:10:40 | 55.77 | 50.37 | 430 | 3.81 | 0.40 | 23.5 |
| 4/27/2015 | 20:10:41 | 56.10 | 50.70 | 420 | 5.38 | 0.39 | 22.9 |
| 4/27/2015 | 20:10:42 | 56.43 | 51.03 | 407 | 3.58 | 0.40 | 22.2 |
| 4/27/2015 | 20:10:57 | 56.76 | 51.36 | 29 | 3.83 | 0.40 | 1.6 |
| 4/27/2015 | 20:11:01 | 57.09 | 51.69 | 84 | 3.76 | 0.41 | 4.6 |
| 4/27/2015 | 20:11:05 | 57.41 | 52.01 | 93 | 3.77 | 0.42 | 5.1 |
| 4/27/2015 | 20:11:10 | 57.74 | 52.34 | 67 | 4.00 | 0.42 | 3.6 |
| 4/27/2015 | 20:11:14 | 58.07 | 52.67 | 84 | 3.93 | 0.42 | 4.6 |
| 4/27/2015 | 20:11:17 | 58.40 | 53.00 | 111 | 3.55 | 0.41 | 6.1 |
| 4/27/2015 | 20:11:19 | 58.73 | 53.33 | 133 | 3.50 | 0.41 | 7.3 |
| 4/27/2015 | 20:11:26 | 59.06 | 53.66 | 49 | 3.56 | 0.41 | 2.7 |
| 4/27/2015 | 20:11:33 | 59.38 | 53.98 | 52 | 4.08 | 0.42 | 2.8 |
| 4/27/2015 | 20:11:41 | 59.71 | 54.31 | 55 | 3.73 | 0.42 | 3.0 |
| 4/27/2015 | 20:11:43 | 59.83 | 54.43 | 56 | 3.44 | 0.41 | 3.1 |

## I127 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:07:56

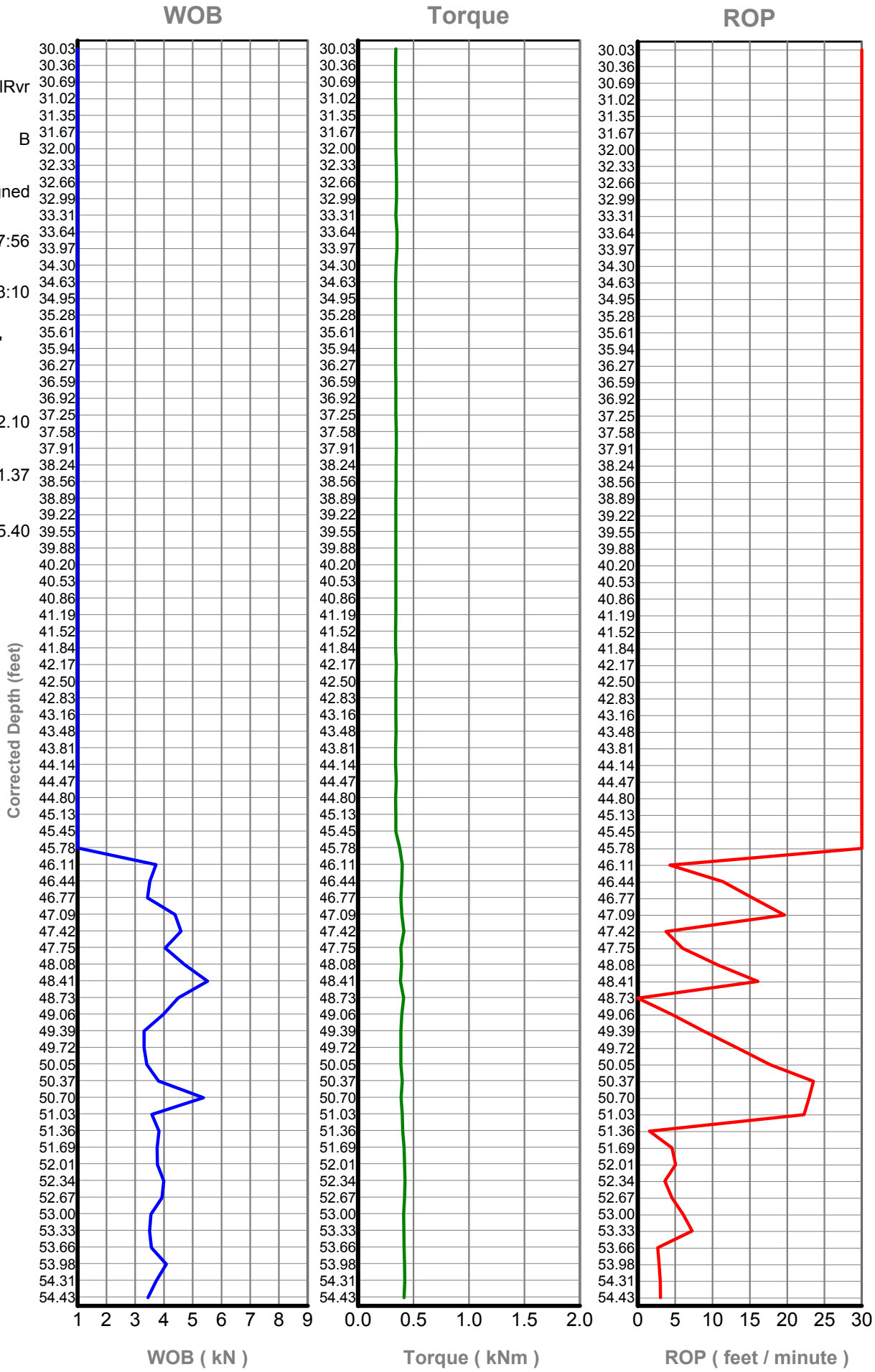
**End Date:**
4/27/2015 20:13:10

**Operator Note:**
'5.4 5.3b Auto Complete'

**Northing:**
364,212.10

**Easting:**
248,551.37

**Tide (feet):**
5.40



## Hole: I128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:04:38 | 35.43 | 30.13 | 913 | 0.38 | 0.35 | 50.0 |
| 4/27/2015 20:04:38 | 35.76 | 30.46 | 913 | 0.38 | 0.35 | 50.0 |
| 4/27/2015 20:04:38 | 36.09 | 30.79 | 911 | 0.38 | 0.35 | 49.8 |
| 4/27/2015 20:04:39 | 36.42 | 31.12 | 905 | 0.38 | 0.35 | 49.5 |
| 4/27/2015 20:04:39 | 36.75 | 31.45 | 914 | 0.38 | 0.35 | 50.0 |
| 4/27/2015 20:04:40 | 37.07 | 31.77 | 914 | 0.38 | 0.35 | 50.0 |
| 4/27/2015 20:04:40 | 37.40 | 32.10 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:40 | 37.73 | 32.43 | 899 | 0.38 | 0.35 | 49.2 |
| 4/27/2015 20:04:41 | 38.06 | 32.76 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:42 | 38.39 | 33.09 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:42 | 38.71 | 33.41 | 903 | 0.38 | 0.35 | 49.4 |
| 4/27/2015 20:04:42 | 39.04 | 33.74 | 897 | 0.38 | 0.35 | 49.0 |
| 4/27/2015 20:04:43 | 39.37 | 34.07 | 905 | 0.38 | 0.35 | 49.5 |
| 4/27/2015 20:04:43 | 39.70 | 34.40 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:44 | 40.03 | 34.73 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:44 | 40.35 | 35.05 | 900 | 0.38 | 0.34 | 49.2 |
| 4/27/2015 20:04:44 | 40.68 | 35.38 | 916 | 0.38 | 0.35 | 50.1 |
| 4/27/2015 20:04:45 | 41.01 | 35.71 | 920 | 0.38 | 0.35 | 50.3 |
| 4/27/2015 20:04:45 | 41.34 | 36.04 | 920 | 0.38 | 0.35 | 50.3 |
| 4/27/2015 20:04:45 | 41.67 | 36.37 | 914 | 0.37 | 0.35 | 50.0 |
| 4/27/2015 20:04:46 | 41.99 | 36.69 | 914 | 0.38 | 0.35 | 50.0 |
| 4/27/2015 20:04:46 | 42.32 | 37.02 | 919 | 0.36 | 0.32 | 50.2 |
| 4/27/2015 20:04:49 | 42.65 | 37.35 | 0 | 0.35 | 0.38 | 0.0 |
| 4/27/2015 20:04:50 | 42.98 | 37.68 | 69 | 0.38 | 0.34 | 3.8 |
| 4/27/2015 20:04:50 | 43.31 | 38.01 | 261 | 0.37 | 0.35 | 14.2 |
| 4/27/2015 20:04:51 | 43.64 | 38.34 | 435 | 0.37 | 0.35 | 23.8 |
| 4/27/2015 20:04:52 | 43.96 | 38.66 | 615 | 0.38 | 0.42 | 33.6 |
| 4/27/2015 20:04:52 | 44.29 | 38.99 | 615 | 0.38 | 0.42 | 33.6 |
| 4/27/2015 20:04:52 | 44.62 | 39.32 | 800 | 0.38 | 0.35 | 43.8 |
| 4/27/2015 20:04:53 | 44.95 | 39.65 | 911 | 0.38 | 0.35 | 49.8 |
| 4/27/2015 20:04:53 | 45.28 | 39.98 | 902 | 0.37 | 0.35 | 49.3 |
| 4/27/2015 20:04:54 | 45.60 | 40.30 | 902 | 0.37 | 0.35 | 49.3 |
| 4/27/2015 20:04:54 | 45.93 | 40.63 | 908 | 0.38 | 0.35 | 49.6 |
| 4/27/2015 20:04:54 | 46.26 | 40.96 | 913 | 0.37 | 0.35 | 49.9 |
| 4/27/2015 20:04:55 | 46.59 | 41.29 | 905 | 0.39 | 0.35 | 49.5 |
| 4/27/2015 20:04:55 | 46.92 | 41.62 | 905 | 0.39 | 0.35 | 49.5 |
| 4/27/2015 20:04:55 | 47.24 | 41.94 | 899 | 0.37 | 0.35 | 49.2 |
| 4/27/2015 20:04:56 | 47.57 | 42.27 | 879 | 0.37 | 0.35 | 48.1 |
| 4/27/2015 20:04:56 | 47.90 | 42.60 | 885 | 0.38 | 0.35 | 48.4 |
| 4/27/2015 20:04:57 | 48.23 | 42.93 | 885 | 0.38 | 0.35 | 48.4 |
| 4/27/2015 20:04:57 | 48.56 | 43.26 | 885 | 0.37 | 0.35 | 48.4 |
| 4/27/2015 20:04:57 | 48.88 | 43.58 | 885 | 0.39 | 0.35 | 48.4 |
| 4/27/2015 20:04:58 | 49.21 | 43.91 | 890 | 0.37 | 0.35 | 48.7 |
| 4/27/2015 20:04:58 | 49.54 | 44.24 | 890 | 0.37 | 0.35 | 48.7 |
| 4/27/2015 20:04:58 | 49.87 | 44.57 | 898 | 0.38 | 0.35 | 49.1 |
| 4/27/2015 20:04:59 | 50.20 | 44.90 | 912 | 0.38 | 0.34 | 49.9 |
| 4/27/2015 20:04:59 | 50.53 | 45.23 | 904 | 0.38 | 0.35 | 49.5 |
| 4/27/2015 20:05:00 | 50.85 | 45.55 | 891 | 0.38 | 0.35 | 48.7 |
| 4/27/2015 20:05:00 | 51.18 | 45.88 | 891 | 0.38 | 0.35 | 48.7 |
| 4/27/2015 20:05:00 | 51.51 | 46.21 | 900 | 0.37 | 0.35 | 49.2 |
| 4/27/2015 20:05:01 | 51.84 | 46.54 | 897 | 0.36 | 0.37 | 49.0 |
| 4/27/2015 20:05:06 | 52.17 | 46.87 | 0 | 4.42 | 0.38 | 0.0 |
| 4/27/2015 20:05:07 | 52.49 | 47.19 | 171 | 5.05 | 0.40 | 9.3 |
| 4/27/2015 20:05:08 | 52.82 | 47.52 | 325 | 3.65 | 0.37 | 17.8 |
| 4/27/2015 20:05:08 | 53.15 | 47.85 | 442 | 4.24 | 0.37 | 24.2 |
| 4/27/2015 20:05:09 | 53.48 | 48.18 | 479 | 4.21 | 0.38 | 26.2 |
| 4/27/2015 20:05:09 | 53.81 | 48.51 | 520 | 3.73 | 0.37 | 28.4 |
| 4/27/2015 20:05:10 | 54.13 | 48.83 | 581 | 5.19 | 0.38 | 31.7 |
| 4/27/2015 20:05:16 | 54.46 | 49.16 | 35 | 4.89 | 0.41 | 1.9 |
| 4/27/2015 20:05:20 | 54.79 | 49.49 | 84 | 5.18 | 0.40 | 4.6 |
| 4/27/2015 20:05:21 | 55.12 | 49.82 | 169 | 4.29 | 0.38 | 9.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:05:23 | 55.45 | 50.15 | 255 | 4.24 | 0.42 | 13.9 |
| 4/27/2015 | 20:05:30 | 55.77 | 50.47 | 60 | 4.07 | 0.42 | 3.3 |
| 4/27/2015 | 20:05:37 | 56.10 | 50.80 | 55 | 4.09 | 0.43 | 3.0 |
| 4/27/2015 | 20:05:45 | 56.43 | 51.13 | 46 | 3.79 | 0.41 | 2.5 |
| 4/27/2015 | 20:05:46 | 56.47 | 51.17 | 49 | 4.09 | 0.42 | 2.7 |

## I128 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:02:40

**End Date:**
4/27/2015 20:07:35

**Operator Note:**
'5.3 5.2b Auto Complete'

**Northing:**
364,256.36

**Easting:**
248,611.80

**Tide (feet):**
5.30



## Hole: I129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 20:03:33 | 35.43 | 30.13 | 950 | 1.65 | 0.16 | 51.9 |
| 4/27/2015 20:03:34 | 35.76 | 30.46 | 935 | 1.66 | 0.16 | 51.1 |
| 4/27/2015 20:03:34 | 36.09 | 30.79 | 935 | 1.66 | 0.16 | 51.1 |
| 4/27/2015 20:03:34 | 36.42 | 31.12 | 935 | 1.64 | 0.16 | 51.1 |
| 4/27/2015 20:03:35 | 36.75 | 31.45 | 950 | 1.65 | 0.16 | 51.9 |
| 4/27/2015 20:03:35 | 37.07 | 31.77 | 950 | 1.65 | 0.16 | 51.9 |
| 4/27/2015 20:03:35 | 37.40 | 32.10 | 950 | 1.64 | 0.16 | 51.9 |
| 4/27/2015 20:03:36 | 37.73 | 32.43 | 950 | 1.66 | 0.16 | 51.9 |
| 4/27/2015 20:03:36 | 38.06 | 32.76 | 950 | 1.66 | 0.16 | 51.9 |
| 4/27/2015 20:03:36 | 38.39 | 33.09 | 965 | 1.64 | 0.16 | 52.8 |
| 4/27/2015 20:03:37 | 38.71 | 33.41 | 956 | 1.64 | 0.16 | 52.3 |
| 4/27/2015 20:03:37 | 39.04 | 33.74 | 971 | 1.66 | 0.16 | 53.1 |
| 4/27/2015 20:03:38 | 39.37 | 34.07 | 971 | 1.66 | 0.16 | 53.1 |
| 4/27/2015 20:03:38 | 39.70 | 34.40 | 968 | 1.66 | 0.16 | 53.0 |
| 4/27/2015 20:03:38 | 40.03 | 34.73 | 983 | 1.65 | 0.16 | 53.8 |
| 4/27/2015 20:03:39 | 40.35 | 35.05 | 983 | 1.65 | 0.16 | 53.8 |
| 4/27/2015 20:03:39 | 40.68 | 35.38 | 960 | 1.65 | 0.16 | 52.5 |
| 4/27/2015 20:03:40 | 41.01 | 35.71 | 963 | 1.65 | 0.16 | 52.7 |
| 4/27/2015 20:03:40 | 41.34 | 36.04 | 963 | 1.65 | 0.16 | 52.7 |
| 4/27/2015 20:03:41 | 41.67 | 36.37 | 963 | 1.65 | 0.16 | 52.7 |
| 4/27/2015 20:03:41 | 41.99 | 36.69 | 958 | 1.64 | 0.16 | 52.4 |
| 4/27/2015 20:03:41 | 42.32 | 37.02 | 958 | 1.64 | 0.16 | 52.4 |
| 4/27/2015 20:03:42 | 42.65 | 37.35 | 958 | 1.64 | 0.16 | 52.4 |
| 4/27/2015 20:03:42 | 42.98 | 37.68 | 952 | 1.64 | 0.16 | 52.1 |
| 4/27/2015 20:03:42 | 43.31 | 38.01 | 952 | 1.64 | 0.16 | 52.1 |
| 4/27/2015 20:03:43 | 43.64 | 38.34 | 952 | 1.64 | 0.16 | 52.1 |
| 4/27/2015 20:03:43 | 43.96 | 38.66 | 952 | 1.64 | 0.16 | 52.1 |
| 4/27/2015 20:03:43 | 44.29 | 38.99 | 952 | 1.62 | 0.16 | 52.1 |
| 4/27/2015 20:03:44 | 44.62 | 39.32 | 965 | 1.66 | 0.16 | 52.8 |
| 4/27/2015 20:03:44 | 44.95 | 39.65 | 951 | 1.64 | 0.16 | 52.0 |
| 4/27/2015 20:03:45 | 45.28 | 39.98 | 951 | 1.64 | 0.16 | 52.0 |
| 4/27/2015 20:03:45 | 45.60 | 40.30 | 941 | 1.64 | 0.16 | 51.5 |
| 4/27/2015 20:03:45 | 45.93 | 40.63 | 941 | 1.65 | 0.16 | 51.5 |
| 4/27/2015 20:03:46 | 46.26 | 40.96 | 941 | 1.65 | 0.16 | 51.5 |
| 4/27/2015 20:03:46 | 46.59 | 41.29 | 944 | 1.66 | 0.16 | 51.6 |
| 4/27/2015 20:03:46 | 46.92 | 41.62 | 944 | 1.65 | 0.16 | 51.6 |
| 4/27/2015 20:03:47 | 47.24 | 41.94 | 947 | 1.64 | 0.16 | 51.8 |
| 4/27/2015 20:03:47 | 47.57 | 42.27 | 947 | 1.64 | 0.16 | 51.8 |
| 4/27/2015 20:03:47 | 47.90 | 42.60 | 950 | 1.62 | 0.16 | 51.9 |
| 4/27/2015 20:03:48 | 48.23 | 42.93 | 966 | 1.62 | 0.16 | 52.8 |
| 4/27/2015 20:03:48 | 48.56 | 43.26 | 966 | 1.62 | 0.16 | 52.8 |
| 4/27/2015 20:03:48 | 48.88 | 43.58 | 954 | 1.65 | 0.16 | 52.2 |
| 4/27/2015 20:03:49 | 49.21 | 43.91 | 954 | 1.64 | 0.16 | 52.2 |
| 4/27/2015 20:03:50 | 49.54 | 44.24 | 951 | 1.65 | 0.16 | 52.0 |
| 4/27/2015 20:03:50 | 49.87 | 44.57 | 951 | 1.65 | 0.16 | 52.0 |
| 4/27/2015 20:03:50 | 50.20 | 44.90 | 951 | 1.68 | 0.16 | 52.0 |
| 4/27/2015 20:03:51 | 50.53 | 45.23 | 934 | 1.67 | 0.16 | 51.1 |
| 4/27/2015 20:03:51 | 50.85 | 45.55 | 910 | 1.67 | 0.16 | 49.8 |
| 4/27/2015 20:03:52 | 51.18 | 45.88 | 885 | 1.67 | 0.16 | 48.4 |
| 4/27/2015 20:03:52 | 51.51 | 46.21 | 885 | 1.67 | 0.16 | 48.4 |
| 4/27/2015 20:03:52 | 51.84 | 46.54 | 852 | 1.68 | 0.16 | 46.6 |
| 4/27/2015 20:03:53 | 52.17 | 46.87 | 821 | 1.68 | 0.16 | 44.9 |
| 4/27/2015 20:03:53 | 52.49 | 47.19 | 798 | 1.69 | 0.16 | 43.6 |
| 4/27/2015 20:03:54 | 52.82 | 47.52 | 789 | 1.65 | 0.16 | 43.1 |
| 4/27/2015 20:03:54 | 53.15 | 47.85 | 778 | 1.67 | 0.16 | 42.5 |
| 4/27/2015 20:03:55 | 53.48 | 48.18 | 764 | 1.69 | 0.16 | 41.8 |
| 4/27/2015 20:03:55 | 53.81 | 48.51 | 769 | 1.68 | 0.16 | 42.1 |
| 4/27/2015 20:03:56 | 54.13 | 48.83 | 763 | 1.69 | 0.16 | 41.7 |
| 4/27/2015 20:03:56 | 54.46 | 49.16 | 763 | 1.69 | 0.16 | 41.7 |
| 4/27/2015 20:03:56 | 54.79 | 49.49 | 760 | 1.70 | 0.16 | 41.6 |
| 4/27/2015 20:03:57 | 55.12 | 49.82 | 755 | 1.68 | 0.16 | 41.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 20:03:57 | 55.45 | 50.15 | 756 | 1.68 | 0.16 | 41.4 |
| 4/27/2015 | 20:03:58 | 55.77 | 50.47 | 737 | 1.68 | 0.16 | 40.3 |
| 4/27/2015 | 20:03:58 | 56.10 | 50.80 | 736 | 1.70 | 0.16 | 40.2 |
| 4/27/2015 | 20:03:59 | 56.43 | 51.13 | 716 | 1.70 | 0.16 | 39.1 |
| 4/27/2015 | 20:04:11 | 56.76 | 51.46 | 0 | 1.68 | 1.18 | 0.0 |
| 4/27/2015 | 20:04:11 | 57.09 | 51.79 | 108 | 1.72 | 1.23 | 5.9 |
| 4/27/2015 | 20:04:14 | 57.41 | 52.11 | 293 | 1.72 | 1.41 | 16.0 |
| 4/27/2015 | 20:04:15 | 57.74 | 52.44 | 194 | 1.68 | 1.16 | 10.6 |
| 4/27/2015 | 20:04:16 | 58.07 | 52.77 | 318 | 1.69 | 1.31 | 17.4 |
| 4/27/2015 | 20:04:46 | 58.40 | 53.10 | 84 | 1.70 | 1.29 | 4.6 |
| 4/27/2015 | 20:04:50 | 58.73 | 53.43 | 96 | 1.71 | 1.38 | 5.3 |
| 4/27/2015 | 20:05:00 | 59.06 | 53.76 | 52 | 1.70 | 1.30 | 2.8 |
| 4/27/2015 | 20:05:08 | 59.38 | 54.08 | 52 | 1.72 | 1.30 | 2.9 |
| 4/27/2015 | 20:05:16 | 59.71 | 54.41 | 43 | 1.72 | 1.29 | 2.3 |
| 4/27/2015 | 20:05:26 | 60.04 | 54.74 | 34 | 1.72 | 1.30 | 1.9 |
| 4/27/2015 | 20:05:31 | 60.22 | 54.92 | 41 | 1.72 | 1.27 | 2.2 |

## I129 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 20:01:43

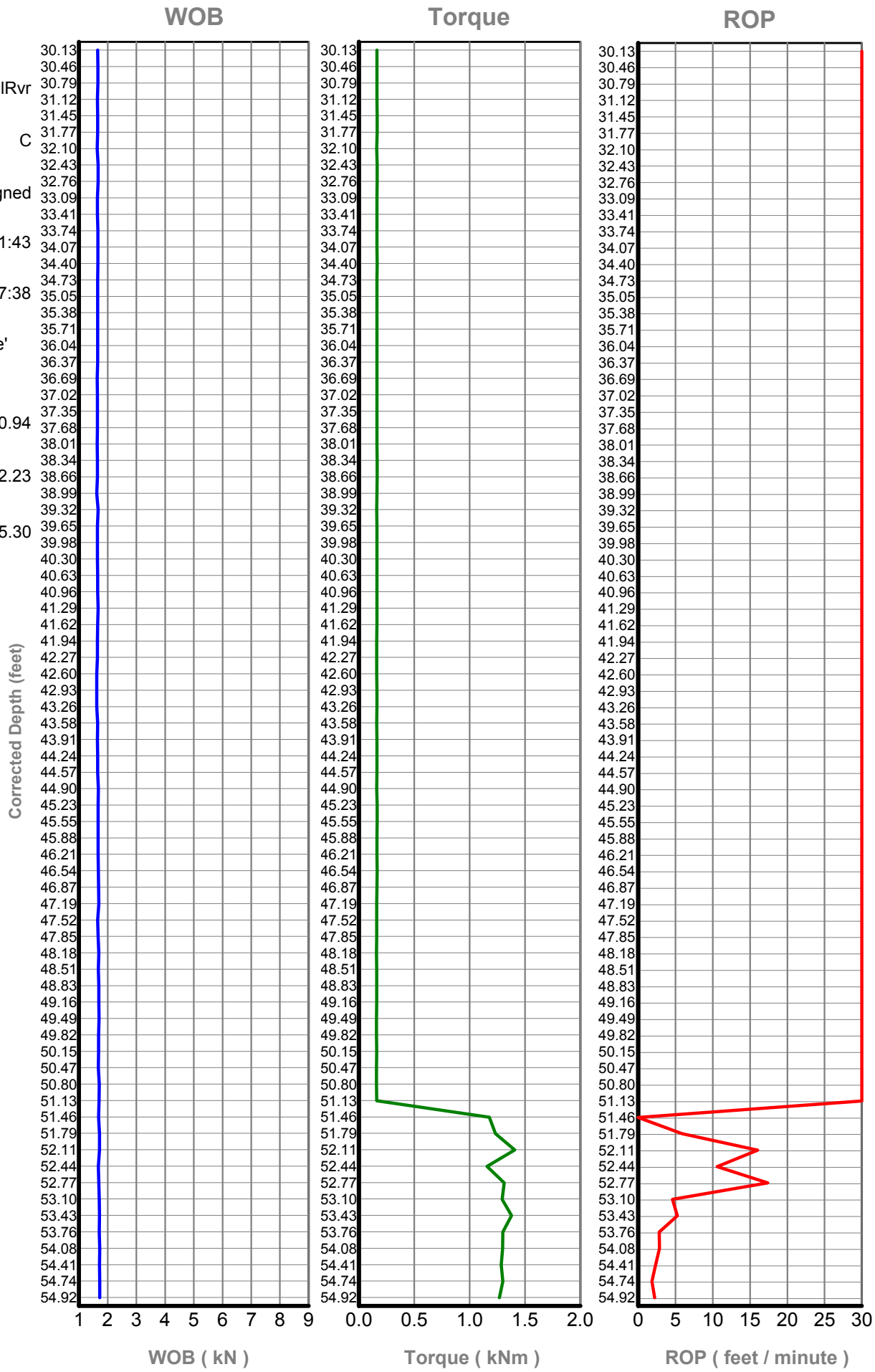
**End Date:**
4/27/2015 20:07:38

**Operator Note:**
'5.3 5.2 c Auto Complete'

**Northing:**
364,300.94

**Easting:**
248,672.23

**Tide (feet):**
5.30



## Hole: I13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:29:06 | 30.84 | 30.04 | 733 | 1.15 | 0.21 | 40.1 |
| 4/29/2015 4:29:07 | 31.17 | 30.37 | 726 | 1.11 | 0.21 | 39.7 |
| 4/29/2015 4:29:08 | 31.50 | 30.70 | 723 | 1.13 | 0.20 | 39.5 |
| 4/29/2015 4:29:08 | 31.82 | 31.02 | 726 | 1.12 | 0.20 | 39.7 |
| 4/29/2015 4:29:09 | 32.15 | 31.35 | 726 | 1.11 | 0.20 | 39.7 |
| 4/29/2015 4:29:09 | 32.48 | 31.68 | 731 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 4:29:10 | 32.81 | 32.01 | 731 | 1.11 | 0.20 | 40.0 |
| 4/29/2015 4:29:10 | 33.14 | 32.34 | 731 | 1.11 | 0.20 | 40.0 |
| 4/29/2015 4:29:11 | 33.46 | 32.66 | 727 | 1.12 | 0.21 | 39.7 |
| 4/29/2015 4:29:11 | 33.79 | 32.99 | 727 | 1.12 | 0.21 | 39.7 |
| 4/29/2015 4:29:11 | 34.12 | 33.32 | 734 | 1.11 | 0.20 | 40.1 |
| 4/29/2015 4:29:12 | 34.45 | 33.65 | 729 | 1.11 | 0.20 | 39.8 |
| 4/29/2015 4:29:12 | 34.78 | 33.98 | 731 | 1.12 | 0.20 | 40.0 |
| 4/29/2015 4:29:13 | 35.11 | 34.31 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:13 | 35.43 | 34.63 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:14 | 35.76 | 34.96 | 728 | 1.11 | 0.20 | 39.8 |
| 4/29/2015 4:29:14 | 36.09 | 35.29 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:15 | 36.42 | 35.62 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:15 | 36.75 | 35.95 | 720 | 1.10 | 0.20 | 39.4 |
| 4/29/2015 4:29:16 | 37.07 | 36.27 | 732 | 1.09 | 0.20 | 40.0 |
| 4/29/2015 4:29:17 | 37.40 | 36.60 | 726 | 1.13 | 0.20 | 39.7 |
| 4/29/2015 4:29:17 | 37.73 | 36.93 | 717 | 1.10 | 0.20 | 39.2 |
| 4/29/2015 4:29:18 | 38.06 | 37.26 | 717 | 1.09 | 0.20 | 39.2 |
| 4/29/2015 4:29:18 | 38.39 | 37.59 | 727 | 1.07 | 0.20 | 39.8 |
| 4/29/2015 4:29:19 | 38.71 | 37.91 | 727 | 1.11 | 0.20 | 39.8 |
| 4/29/2015 4:29:19 | 39.04 | 38.24 | 723 | 1.10 | 0.20 | 39.5 |
| 4/29/2015 4:29:20 | 39.37 | 38.57 | 723 | 1.10 | 0.20 | 39.5 |
| 4/29/2015 4:29:20 | 39.70 | 38.90 | 726 | 1.11 | 0.20 | 39.7 |
| 4/29/2015 4:29:20 | 40.03 | 39.23 | 735 | 1.11 | 0.20 | 40.2 |
| 4/29/2015 4:29:21 | 40.35 | 39.55 | 729 | 1.10 | 0.20 | 39.9 |
| 4/29/2015 4:29:21 | 40.68 | 39.88 | 721 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:22 | 41.01 | 40.21 | 733 | 1.11 | 0.20 | 40.1 |
| 4/29/2015 4:29:22 | 41.34 | 40.54 | 726 | 1.10 | 0.20 | 39.7 |
| 4/29/2015 4:29:23 | 41.67 | 40.87 | 730 | 1.10 | 0.20 | 39.9 |
| 4/29/2015 4:29:23 | 41.99 | 41.19 | 726 | 1.10 | 0.20 | 39.7 |
| 4/29/2015 4:29:24 | 42.32 | 41.52 | 729 | 1.10 | 0.20 | 39.8 |
| 4/29/2015 4:29:24 | 42.65 | 41.85 | 726 | 1.11 | 0.20 | 39.7 |
| 4/29/2015 4:29:25 | 42.98 | 42.18 | 723 | 1.09 | 0.20 | 39.5 |
| 4/29/2015 4:29:25 | 43.31 | 42.51 | 718 | 1.11 | 0.20 | 39.3 |
| 4/29/2015 4:29:26 | 43.64 | 42.84 | 726 | 1.11 | 0.20 | 39.7 |
| 4/29/2015 4:29:26 | 43.96 | 43.16 | 723 | 0.89 | 0.20 | 39.5 |
| 4/29/2015 4:29:27 | 44.29 | 43.49 | 723 | 1.09 | 0.20 | 39.5 |
| 4/29/2015 4:29:27 | 44.62 | 43.82 | 726 | 1.11 | 0.20 | 39.7 |
| 4/29/2015 4:29:28 | 44.95 | 44.15 | 726 | 1.10 | 0.20 | 39.7 |
| 4/29/2015 4:29:29 | 45.28 | 44.48 | 723 | 1.11 | 0.20 | 39.5 |
| 4/29/2015 4:29:29 | 45.60 | 44.80 | 723 | 1.11 | 0.20 | 39.5 |
| 4/29/2015 4:29:29 | 45.93 | 45.13 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 4:29:30 | 46.26 | 45.46 | 715 | 1.11 | 0.20 | 39.1 |
| 4/29/2015 4:29:43 | 46.59 | 45.79 | 65 | 1.16 | 1.46 | 3.5 |
| 4/29/2015 4:29:46 | 46.92 | 46.12 | 181 | 1.12 | 1.61 | 9.9 |
| 4/29/2015 4:29:48 | 47.24 | 46.44 | 129 | 1.17 | 1.20 | 7.1 |
| 4/29/2015 4:30:06 | 47.57 | 46.77 | 0 | 1.13 | 1.02 | 0.0 |
| 4/29/2015 4:30:10 | 47.90 | 47.10 | 103 | 1.13 | 1.36 | 5.7 |
| 4/29/2015 4:30:21 | 48.23 | 47.43 | 35 | 1.13 | 1.17 | 1.9 |
| 4/29/2015 4:30:24 | 48.56 | 47.76 | 118 | 1.10 | 1.27 | 6.4 |
| 4/29/2015 4:30:27 | 48.88 | 48.08 | 116 | 1.05 | 1.19 | 6.3 |
| 4/29/2015 4:30:31 | 49.21 | 48.41 | 101 | 1.06 | 1.27 | 5.5 |
| 4/29/2015 4:30:35 | 49.54 | 48.74 | 89 | 1.15 | 1.24 | 4.9 |
| 4/29/2015 4:30:39 | 49.87 | 49.07 | 89 | 1.10 | 1.21 | 4.9 |
| 4/29/2015 4:30:43 | 50.20 | 49.40 | 89 | 1.11 | 1.30 | 4.9 |
| 4/29/2015 4:30:47 | 50.53 | 49.73 | 90 | 1.11 | 1.27 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:30:50 | 50.85 | 50.05 | 90 | 1.09 | 1.29 | 4.9 |
| 4/29/2015 | 4:30:55 | 51.18 | 50.38 | 87 | 1.14 | 1.22 | 4.8 |
| 4/29/2015 | 4:30:58 | 51.51 | 50.71 | 108 | 1.11 | 1.23 | 5.9 |
| 4/29/2015 | 4:31:22 | 51.84 | 51.04 | 0 | 1.12 | 1.13 | 0.0 |
| 4/29/2015 | 4:31:26 | 52.17 | 51.37 | 101 | 1.13 | 1.20 | 5.5 |
| 4/29/2015 | 4:31:30 | 52.49 | 51.69 | 105 | 1.04 | 1.27 | 5.7 |
| 4/29/2015 | 4:31:33 | 52.82 | 52.02 | 110 | 1.08 | 1.27 | 6.0 |
| 4/29/2015 | 4:31:36 | 53.15 | 52.35 | 145 | 1.17 | 1.15 | 7.9 |
| 4/29/2015 | 4:31:39 | 53.48 | 52.68 | 110 | 1.04 | 1.15 | 6.0 |
| 4/29/2015 | 4:31:42 | 53.81 | 53.01 | 90 | 1.04 | 1.00 | 4.9 |
| 4/29/2015 | 4:31:46 | 54.13 | 53.33 | 108 | 1.11 | 1.22 | 5.9 |
| 4/29/2015 | 4:31:49 | 54.46 | 53.66 | 116 | 1.06 | 1.18 | 6.3 |
| 4/29/2015 | 4:31:52 | 54.79 | 53.99 | 101 | 1.11 | 1.19 | 5.5 |
| 4/29/2015 | 4:31:56 | 55.12 | 54.32 | 98 | 1.02 | 1.18 | 5.4 |
| 4/29/2015 | 4:32:00 | 55.45 | 54.65 | 84 | 1.03 | 1.18 | 4.6 |
| 4/29/2015 | 4:32:03 | 55.77 | 54.97 | 104 | 1.04 | 1.09 | 5.7 |
| 4/29/2015 | 4:32:05 | 55.91 | 55.11 | 101 | 1.14 | 1.21 | 5.5 |

## I13 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:26:58

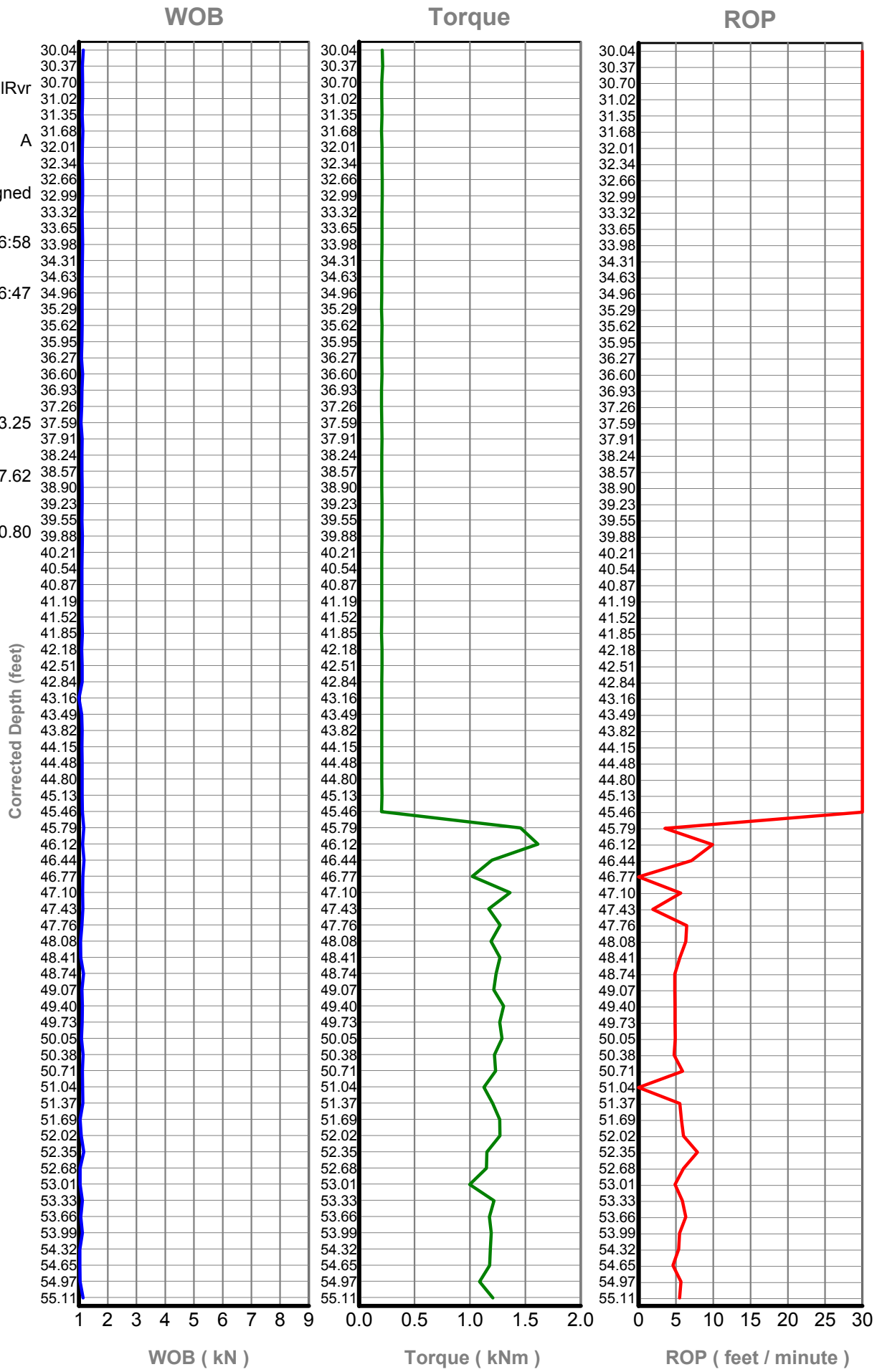
**End Date:**
4/29/2015 4:36:47

**Operator Note:**
'0.8 .9 b Auto Complete'

**Northing:**
364,303.25

**Easting:**
247,587.62

**Tide (feet):**
0.80



## Hole: I130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:36:24 | 31.82 | 30.12 | 737 | 1.13 | 0.20 | 40.3 |
| 4/27/2015 13:36:25 | 32.15 | 30.45 | 730 | 1.09 | 0.20 | 39.9 |
| 4/27/2015 13:36:25 | 32.48 | 30.78 | 724 | 1.09 | 0.20 | 39.6 |
| 4/27/2015 13:36:26 | 32.81 | 31.11 | 720 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 13:36:26 | 33.14 | 31.44 | 720 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 13:36:26 | 33.46 | 31.76 | 723 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 13:36:27 | 33.79 | 32.09 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 13:36:27 | 34.12 | 32.42 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 13:36:28 | 34.45 | 32.75 | 721 | 1.07 | 0.20 | 39.4 |
| 4/27/2015 13:36:28 | 34.78 | 33.08 | 728 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 13:36:29 | 35.11 | 33.41 | 726 | 1.07 | 0.20 | 39.7 |
| 4/27/2015 13:36:29 | 35.43 | 33.73 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 13:36:30 | 35.76 | 34.06 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 13:36:30 | 36.09 | 34.39 | 728 | 1.09 | 0.20 | 39.8 |
| 4/27/2015 13:36:31 | 36.42 | 34.72 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 13:36:31 | 36.75 | 35.05 | 723 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 13:36:32 | 37.07 | 35.37 | 718 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 13:36:33 | 37.40 | 35.70 | 726 | 1.09 | 0.19 | 39.7 |
| 4/27/2015 13:36:33 | 37.73 | 36.03 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 13:36:34 | 38.06 | 36.36 | 729 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 13:36:34 | 38.39 | 36.69 | 727 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 13:36:35 | 38.71 | 37.01 | 727 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 13:36:35 | 39.04 | 37.34 | 735 | 1.09 | 0.20 | 40.2 |
| 4/27/2015 13:36:35 | 39.37 | 37.67 | 732 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 13:36:36 | 39.70 | 38.00 | 734 | 1.07 | 0.20 | 40.2 |
| 4/27/2015 13:36:36 | 40.03 | 38.33 | 730 | 1.07 | 0.19 | 39.9 |
| 4/27/2015 13:36:37 | 40.35 | 38.65 | 739 | 1.08 | 0.20 | 40.4 |
| 4/27/2015 13:36:37 | 40.68 | 38.98 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 13:36:38 | 41.01 | 39.31 | 731 | 1.11 | 0.19 | 40.0 |
| 4/27/2015 13:36:38 | 41.34 | 39.64 | 728 | 1.08 | 0.19 | 39.8 |
| 4/27/2015 13:36:39 | 41.67 | 39.97 | 730 | 1.09 | 0.19 | 39.9 |
| 4/27/2015 13:36:39 | 41.99 | 40.29 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 13:36:40 | 42.32 | 40.62 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 13:36:40 | 42.65 | 40.95 | 718 | 1.07 | 0.20 | 39.3 |
| 4/27/2015 13:36:41 | 42.98 | 41.28 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 13:36:41 | 43.31 | 41.61 | 721 | 1.09 | 0.19 | 39.5 |
| 4/27/2015 13:36:42 | 43.64 | 41.94 | 729 | 1.08 | 0.19 | 39.8 |
| 4/27/2015 13:36:43 | 43.96 | 42.26 | 722 | 1.07 | 0.19 | 39.5 |
| 4/27/2015 13:36:43 | 44.29 | 42.59 | 710 | 1.08 | 0.19 | 38.8 |
| 4/27/2015 13:36:43 | 44.62 | 42.92 | 710 | 1.08 | 0.19 | 38.8 |
| 4/27/2015 13:36:44 | 44.95 | 43.25 | 710 | 1.08 | 0.20 | 38.8 |
| 4/27/2015 13:36:44 | 45.28 | 43.58 | 715 | 1.08 | 0.19 | 39.1 |
| 4/27/2015 13:36:45 | 45.60 | 43.90 | 704 | 1.07 | 0.19 | 38.5 |
| 4/27/2015 13:36:45 | 45.93 | 44.23 | 702 | 1.09 | 0.19 | 38.4 |
| 4/27/2015 13:36:46 | 46.26 | 44.56 | 661 | 0.88 | 0.19 | 36.1 |
| 4/27/2015 13:36:47 | 46.59 | 44.89 | 581 | 1.06 | 0.19 | 31.8 |
| 4/27/2015 13:36:48 | 46.92 | 45.22 | 539 | 1.08 | 0.19 | 29.5 |
| 4/27/2015 13:36:48 | 47.24 | 45.54 | 496 | 1.08 | 0.20 | 27.1 |
| 4/27/2015 13:36:49 | 47.57 | 45.87 | 496 | 1.05 | 0.19 | 27.1 |
| 4/27/2015 13:36:49 | 47.90 | 46.20 | 499 | 1.08 | 0.20 | 27.3 |
| 4/27/2015 13:36:50 | 48.23 | 46.53 | 520 | 1.09 | 0.20 | 28.4 |
| 4/27/2015 13:36:51 | 48.56 | 46.86 | 583 | 1.09 | 0.20 | 31.9 |
| 4/27/2015 13:36:51 | 48.88 | 47.18 | 596 | 1.07 | 0.19 | 32.6 |
| 4/27/2015 13:36:52 | 49.21 | 47.51 | 596 | 1.08 | 0.19 | 32.6 |
| 4/27/2015 13:36:52 | 49.54 | 47.84 | 593 | 1.07 | 0.19 | 32.4 |
| 4/27/2015 13:36:53 | 49.87 | 48.17 | 584 | 1.07 | 0.19 | 31.9 |
| 4/27/2015 13:36:54 | 50.20 | 48.50 | 567 | 1.09 | 0.19 | 31.0 |
| 4/27/2015 13:36:55 | 50.53 | 48.83 | 572 | 1.07 | 0.19 | 31.3 |
| 4/27/2015 13:36:55 | 50.85 | 49.15 | 572 | 1.09 | 0.19 | 31.3 |
| 4/27/2015 13:36:56 | 51.18 | 49.48 | 571 | 1.09 | 0.19 | 31.2 |
| 4/27/2015 13:36:57 | 51.51 | 49.81 | 539 | 1.09 | 0.19 | 29.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:36:57 | 51.84 | 50.14 | 534 | 1.05 | 0.19 | 29.2 |
| 4/27/2015 | 13:36:58 | 52.17 | 50.47 | 518 | 1.09 | 0.19 | 28.3 |
| 4/27/2015 | 13:36:59 | 52.49 | 50.79 | 488 | 1.09 | 0.19 | 26.7 |
| 4/27/2015 | 13:36:59 | 52.82 | 51.12 | 477 | 1.11 | 0.19 | 26.1 |
| 4/27/2015 | 13:37:00 | 53.15 | 51.45 | 448 | 1.10 | 0.19 | 24.5 |
| 4/27/2015 | 13:37:01 | 53.48 | 51.78 | 410 | 1.11 | 0.19 | 22.4 |
| 4/27/2015 | 13:37:20 | 53.81 | 52.11 | 0 | 0.81 | 0.99 | 0.0 |
| 4/27/2015 | 13:37:21 | 54.13 | 52.43 | 44 | 1.09 | 0.97 | 2.4 |
| 4/27/2015 | 13:37:22 | 54.46 | 52.76 | 239 | 1.13 | 1.24 | 13.1 |
| 4/27/2015 | 13:37:25 | 54.79 | 53.09 | 210 | 1.12 | 1.64 | 11.5 |
| 4/27/2015 | 13:37:26 | 55.12 | 53.42 | 139 | 1.08 | 1.65 | 7.6 |
| 4/27/2015 | 13:37:27 | 55.45 | 53.75 | 247 | 1.11 | 1.24 | 13.5 |
| 4/27/2015 | 13:37:29 | 55.77 | 54.07 | 259 | 1.13 | 1.48 | 14.2 |
| 4/27/2015 | 13:37:32 | 56.10 | 54.40 | 115 | 1.08 | 1.72 | 6.3 |
| 4/27/2015 | 13:37:35 | 56.43 | 54.73 | 111 | 1.11 | 1.30 | 6.0 |
| 4/27/2015 | 13:37:37 | 56.76 | 55.06 | 227 | 1.12 | 1.00 | 12.4 |
| 4/27/2015 | 13:37:38 | 57.09 | 55.39 | 213 | 1.09 | 1.06 | 11.6 |
| 4/27/2015 | 13:37:40 | 57.41 | 55.71 | 264 | 0.60 | 1.32 | 14.4 |
| 4/27/2015 | 13:37:40 | 57.50 | 55.80 | 264 | 0.60 | 1.32 | 14.4 |

## I130 - Summary

**Pattern Number:**
AreaH_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 13:33:56

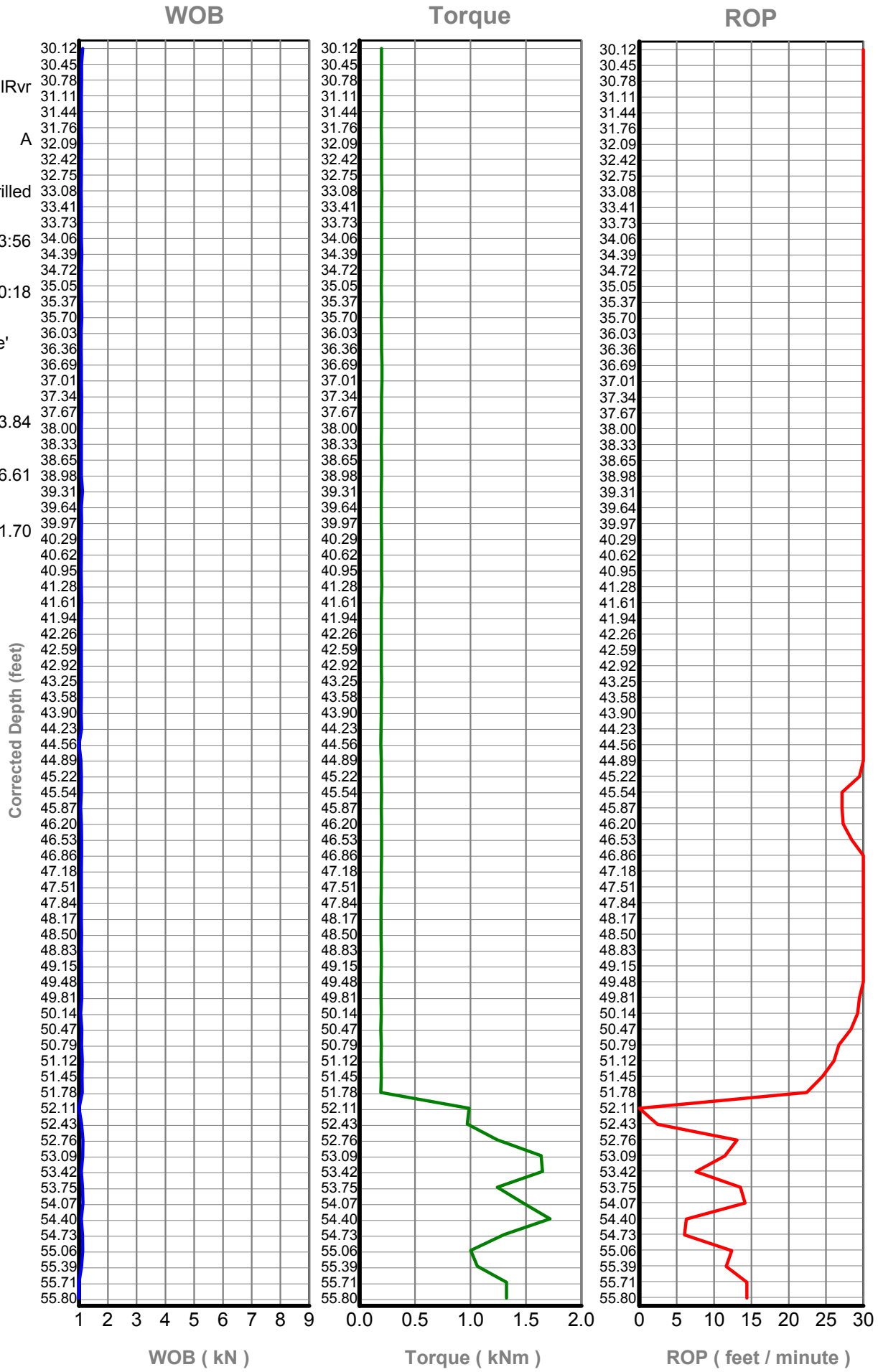
**End Date:**
4/27/2015 13:40:18

**Operator Note:**
'1.7 1.9 a Auto Complete'

**Northing:**
364,343.84

**Easting:**
248,706.61

**Tide (feet):**
1.70



## Hole: I131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:34:19 | 31.82 | 30.12 | 1,090 | 0.27 | 0.32 | 59.6 |
| 4/27/2015 13:34:20 | 32.15 | 30.45 | 1,090 | 0.27 | 0.32 | 59.6 |
| 4/27/2015 13:34:20 | 32.48 | 30.78 | 1,090 | 0.27 | 0.31 | 59.6 |
| 4/27/2015 13:34:20 | 32.81 | 31.11 | 1,090 | 0.27 | 0.31 | 59.6 |
| 4/27/2015 13:34:20 | 33.14 | 31.44 | 1,096 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 13:34:21 | 33.46 | 31.76 | 1,096 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 13:34:21 | 33.79 | 32.09 | 1,096 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 13:34:21 | 34.12 | 32.42 | 1,129 | 0.27 | 0.32 | 61.7 |
| 4/27/2015 13:34:22 | 34.45 | 32.75 | 1,129 | 0.27 | 0.32 | 61.7 |
| 4/27/2015 13:34:22 | 34.78 | 33.08 | 1,120 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 13:34:22 | 35.11 | 33.41 | 1,127 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 13:34:23 | 35.43 | 33.73 | 1,127 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 13:34:23 | 35.76 | 34.06 | 1,114 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:23 | 36.09 | 34.39 | 1,125 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:24 | 36.42 | 34.72 | 1,125 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:24 | 36.75 | 35.05 | 1,124 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:24 | 37.07 | 35.37 | 1,124 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:24 | 37.40 | 35.70 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:25 | 37.73 | 36.03 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:25 | 38.06 | 36.36 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:25 | 38.39 | 36.69 | 1,127 | 0.26 | 0.32 | 61.6 |
| 4/27/2015 13:34:26 | 38.71 | 37.01 | 1,127 | 0.26 | 0.32 | 61.6 |
| 4/27/2015 13:34:26 | 39.04 | 37.34 | 1,126 | 0.27 | 0.32 | 61.6 |
| 4/27/2015 13:34:26 | 39.37 | 37.67 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:27 | 39.70 | 38.00 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:27 | 40.03 | 38.33 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:28 | 40.35 | 38.65 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:28 | 40.68 | 38.98 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 13:34:28 | 41.01 | 39.31 | 1,125 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:29 | 41.34 | 39.64 | 1,125 | 0.27 | 0.32 | 61.5 |
| 4/27/2015 13:34:29 | 41.67 | 39.97 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:29 | 41.99 | 40.29 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 13:34:30 | 42.32 | 40.62 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 13:34:30 | 42.65 | 40.95 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:30 | 42.98 | 41.28 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:30 | 43.31 | 41.61 | 1,116 | 0.27 | 0.31 | 61.0 |
| 4/27/2015 13:34:31 | 43.64 | 41.94 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:31 | 43.96 | 42.26 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 13:34:31 | 44.29 | 42.59 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:32 | 44.62 | 42.92 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:32 | 44.95 | 43.25 | 1,109 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 13:34:32 | 45.28 | 43.58 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:33 | 45.60 | 43.90 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 13:34:33 | 45.93 | 44.23 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 13:34:33 | 46.26 | 44.56 | 1,092 | 0.25 | 0.38 | 59.7 |
| 4/27/2015 13:34:40 | 46.59 | 44.89 | 0 | 3.90 | 0.38 | 0.0 |
| 4/27/2015 13:34:41 | 46.92 | 45.22 | 178 | 4.07 | 0.40 | 9.7 |
| 4/27/2015 13:34:42 | 47.24 | 45.54 | 269 | 3.97 | 0.36 | 14.7 |
| 4/27/2015 13:34:42 | 47.57 | 45.87 | 401 | 2.55 | 0.40 | 21.9 |
| 4/27/2015 13:34:43 | 47.90 | 46.20 | 481 | 2.56 | 0.34 | 26.3 |
| 4/27/2015 13:34:48 | 48.23 | 46.53 | 0 | 2.25 | 0.33 | 0.0 |
| 4/27/2015 13:34:49 | 48.56 | 46.86 | 114 | 2.41 | 0.34 | 6.2 |
| 4/27/2015 13:34:49 | 48.88 | 47.18 | 114 | 2.41 | 0.34 | 6.2 |
| 4/27/2015 13:34:49 | 49.21 | 47.51 | 302 | 2.86 | 0.35 | 16.5 |
| 4/27/2015 13:34:50 | 49.54 | 47.84 | 470 | 2.50 | 0.34 | 25.7 |
| 4/27/2015 13:34:50 | 49.87 | 48.17 | 638 | 2.51 | 0.34 | 34.9 |
| 4/27/2015 13:34:51 | 50.20 | 48.50 | 807 | 2.51 | 0.35 | 44.1 |
| 4/27/2015 13:34:51 | 50.53 | 48.83 | 807 | 2.51 | 0.35 | 44.1 |
| 4/27/2015 13:34:51 | 50.85 | 49.15 | 869 | 2.46 | 0.34 | 47.5 |
| 4/27/2015 13:34:52 | 51.18 | 49.48 | 826 | 2.48 | 0.35 | 45.1 |
| 4/27/2015 13:34:52 | 51.51 | 49.81 | 826 | 2.54 | 0.34 | 45.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:34:53 | 51.84 | 50.14 | 830 | 3.17 | 0.35 | 45.4 |
| 4/27/2015 | 13:34:53 | 52.17 | 50.47 | 813 | 3.16 | 0.35 | 44.5 |
| 4/27/2015 | 13:34:54 | 52.49 | 50.79 | 792 | 2.41 | 0.35 | 43.3 |
| 4/27/2015 | 13:34:54 | 52.82 | 51.12 | 752 | 5.08 | 0.38 | 41.1 |
| 4/27/2015 | 13:34:56 | 53.15 | 51.45 | 440 | 6.38 | 0.38 | 24.1 |
| 4/27/2015 | 13:34:56 | 53.48 | 51.78 | 369 | 5.06 | 0.37 | 20.2 |
| 4/27/2015 | 13:34:57 | 53.81 | 52.11 | 335 | 4.02 | 0.36 | 18.3 |
| 4/27/2015 | 13:34:57 | 54.13 | 52.43 | 366 | 2.99 | 0.36 | 20.0 |
| 4/27/2015 | 13:34:59 | 54.46 | 52.76 | 549 | 4.05 | 0.36 | 30.0 |
| 4/27/2015 | 13:34:59 | 54.79 | 53.09 | 586 | 3.10 | 0.36 | 32.1 |
| 4/27/2015 | 13:35:00 | 55.12 | 53.42 | 601 | 3.22 | 0.37 | 32.9 |
| 4/27/2015 | 13:35:00 | 55.45 | 53.75 | 593 | 3.18 | 0.38 | 32.4 |
| 4/27/2015 | 13:35:01 | 55.77 | 54.07 | 540 | 3.33 | 0.36 | 29.5 |
| 4/27/2015 | 13:35:02 | 56.10 | 54.40 | 549 | 3.48 | 0.36 | 30.0 |
| 4/27/2015 | 13:35:02 | 56.43 | 54.73 | 546 | 3.31 | 0.37 | 29.9 |
| 4/27/2015 | 13:35:03 | 56.76 | 55.06 | 546 | 2.80 | 0.36 | 29.9 |
| 4/27/2015 | 13:35:04 | 57.09 | 55.39 | 561 | 4.72 | 0.39 | 30.7 |
| 4/27/2015 | 13:35:04 | 57.18 | 55.48 | 561 | 4.72 | 0.39 | 30.7 |

## I131 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:32:47

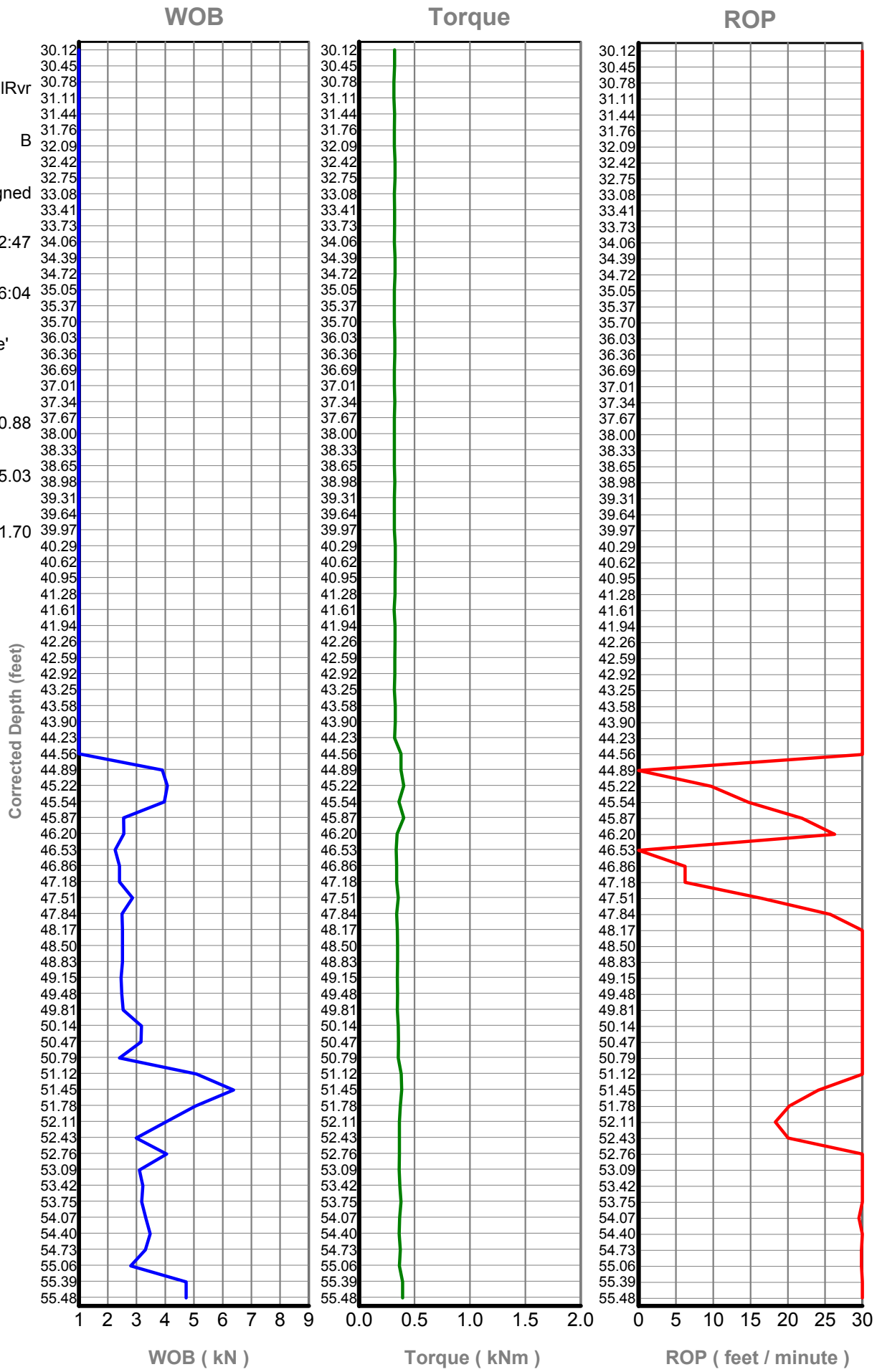
**End Date:**
4/27/2015 13:36:04

**Operator Note:**
'1.7 1.9 b Auto Complete'

**Northing:**
364,390.88

**Easting:**
248,765.03

**Tide (feet):**
1.70



## Hole: I132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 13:33:40 | 31.82 | 30.12 | 1,218 | 1.71 | 0.29 | 66.6 |
| 4/27/2015 13:33:40 | 32.15 | 30.45 | 1,202 | 1.73 | 0.29 | 65.7 |
| 4/27/2015 13:33:40 | 32.48 | 30.78 | 1,202 | 1.73 | 0.29 | 65.7 |
| 4/27/2015 13:33:40 | 32.81 | 31.11 | 1,202 | 1.70 | 0.29 | 65.7 |
| 4/27/2015 13:33:41 | 33.14 | 31.44 | 1,204 | 1.71 | 0.29 | 65.9 |
| 4/27/2015 13:33:41 | 33.46 | 31.76 | 1,204 | 1.71 | 0.29 | 65.9 |
| 4/27/2015 13:33:41 | 33.79 | 32.09 | 1,195 | 1.70 | 0.29 | 65.4 |
| 4/27/2015 13:33:42 | 34.12 | 32.42 | 1,195 | 1.70 | 0.29 | 65.4 |
| 4/27/2015 13:33:42 | 34.45 | 32.75 | 1,205 | 1.71 | 0.29 | 65.9 |
| 4/27/2015 13:33:42 | 34.78 | 33.08 | 1,205 | 1.71 | 0.29 | 65.9 |
| 4/27/2015 13:33:42 | 35.11 | 33.41 | 1,210 | 1.71 | 0.29 | 66.1 |
| 4/27/2015 13:33:43 | 35.43 | 33.73 | 1,224 | 1.72 | 0.28 | 66.9 |
| 4/27/2015 13:33:44 | 35.76 | 34.06 | 1,224 | 1.72 | 0.28 | 66.9 |
| 4/27/2015 13:33:44 | 36.09 | 34.39 | 1,205 | 1.72 | 0.28 | 65.9 |
| 4/27/2015 13:33:44 | 36.42 | 34.72 | 1,205 | 1.72 | 0.28 | 65.9 |
| 4/27/2015 13:33:44 | 36.75 | 35.05 | 1,221 | 1.70 | 0.28 | 66.8 |
| 4/27/2015 13:33:45 | 37.07 | 35.37 | 1,221 | 1.70 | 0.28 | 66.8 |
| 4/27/2015 13:33:45 | 37.40 | 35.70 | 1,219 | 1.70 | 0.28 | 66.6 |
| 4/27/2015 13:33:45 | 37.73 | 36.03 | 1,219 | 1.70 | 0.28 | 66.6 |
| 4/27/2015 13:33:45 | 38.06 | 36.36 | 1,211 | 1.71 | 0.28 | 66.2 |
| 4/27/2015 13:33:46 | 38.39 | 36.69 | 1,211 | 1.72 | 0.28 | 66.2 |
| 4/27/2015 13:33:46 | 38.71 | 37.01 | 1,211 | 1.72 | 0.28 | 66.2 |
| 4/27/2015 13:33:46 | 39.04 | 37.34 | 1,218 | 1.72 | 0.28 | 66.6 |
| 4/27/2015 13:33:47 | 39.37 | 37.67 | 1,218 | 1.72 | 0.28 | 66.6 |
| 4/27/2015 13:33:47 | 39.70 | 38.00 | 1,205 | 1.73 | 0.28 | 65.9 |
| 4/27/2015 13:33:47 | 40.03 | 38.33 | 1,205 | 1.73 | 0.28 | 65.9 |
| 4/27/2015 13:33:47 | 40.35 | 38.65 | 1,201 | 1.73 | 0.28 | 65.7 |
| 4/27/2015 13:33:48 | 40.68 | 38.98 | 1,209 | 1.71 | 0.28 | 66.1 |
| 4/27/2015 13:33:48 | 41.01 | 39.31 | 1,209 | 1.71 | 0.28 | 66.1 |
| 4/27/2015 13:33:48 | 41.34 | 39.64 | 1,214 | 1.70 | 0.28 | 66.4 |
| 4/27/2015 13:33:49 | 41.67 | 39.97 | 1,214 | 1.70 | 0.28 | 66.4 |
| 4/27/2015 13:33:49 | 41.99 | 40.29 | 1,205 | 1.70 | 0.28 | 65.9 |
| 4/27/2015 13:33:49 | 42.32 | 40.62 | 1,205 | 1.70 | 0.28 | 65.9 |
| 4/27/2015 13:33:49 | 42.65 | 40.95 | 1,208 | 1.70 | 0.28 | 66.1 |
| 4/27/2015 13:33:50 | 42.98 | 41.28 | 1,208 | 1.72 | 0.28 | 66.1 |
| 4/27/2015 13:33:50 | 43.31 | 41.61 | 1,208 | 1.72 | 0.28 | 66.1 |
| 4/27/2015 13:33:50 | 43.64 | 41.94 | 1,208 | 1.74 | 0.28 | 66.1 |
| 4/27/2015 13:33:51 | 43.96 | 42.26 | 1,208 | 1.74 | 0.28 | 66.1 |
| 4/27/2015 13:33:51 | 44.29 | 42.59 | 1,203 | 1.72 | 0.28 | 65.8 |
| 4/27/2015 13:33:51 | 44.62 | 42.92 | 1,203 | 1.72 | 0.28 | 65.8 |
| 4/27/2015 13:34:17 | 44.95 | 43.25 | 65 | 1.85 | 0.99 | 3.5 |
| 4/27/2015 13:34:18 | 45.28 | 43.58 | 138 | 1.76 | 1.14 | 7.5 |
| 4/27/2015 13:34:18 | 45.60 | 43.90 | 249 | 1.74 | 1.06 | 13.6 |
| 4/27/2015 13:34:19 | 45.93 | 44.23 | 364 | 1.76 | 1.05 | 19.9 |
| 4/27/2015 13:34:19 | 46.26 | 44.56 | 469 | 1.76 | 1.06 | 25.6 |
| 4/27/2015 13:34:20 | 46.59 | 44.89 | 568 | 1.79 | 0.99 | 31.0 |
| 4/27/2015 13:34:21 | 46.92 | 45.22 | 565 | 1.79 | 1.01 | 30.9 |
| 4/27/2015 13:34:21 | 47.24 | 45.54 | 561 | 1.82 | 1.00 | 30.7 |
| 4/27/2015 13:34:22 | 47.57 | 45.87 | 597 | 1.81 | 1.00 | 32.7 |
| 4/27/2015 13:34:22 | 47.90 | 46.20 | 630 | 1.80 | 0.94 | 34.5 |
| 4/27/2015 13:34:23 | 48.23 | 46.53 | 680 | 1.82 | 1.00 | 37.2 |
| 4/27/2015 13:34:23 | 48.56 | 46.86 | 680 | 1.82 | 1.00 | 37.2 |
| 4/27/2015 13:34:23 | 48.88 | 47.18 | 726 | 1.79 | 0.96 | 39.7 |
| 4/27/2015 13:34:24 | 49.21 | 47.51 | 774 | 1.81 | 0.93 | 42.3 |
| 4/27/2015 13:34:24 | 49.54 | 47.84 | 798 | 1.83 | 0.94 | 43.6 |
| 4/27/2015 13:34:25 | 49.87 | 48.17 | 801 | 1.70 | 0.89 | 43.8 |
| 4/27/2015 13:34:26 | 50.20 | 48.50 | 796 | 1.79 | 1.00 | 43.5 |
| 4/27/2015 13:34:26 | 50.53 | 48.83 | 801 | 1.75 | 1.39 | 43.8 |
| 4/27/2015 13:34:27 | 50.85 | 49.15 | 772 | 1.76 | 1.09 | 42.2 |
| 4/27/2015 13:34:27 | 51.18 | 49.48 | 749 | 1.76 | 1.07 | 40.9 |
| 4/27/2015 13:34:28 | 51.51 | 49.81 | 749 | 1.76 | 1.07 | 40.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 13:34:28 | 51.84 | 50.14 | 743 | 1.79 | 1.01 | 40.6 |
| 4/27/2015 | 13:34:28 | 52.17 | 50.47 | 751 | 1.83 | 1.09 | 41.1 |
| 4/27/2015 | 13:34:29 | 52.49 | 50.79 | 732 | 1.78 | 1.30 | 40.0 |
| 4/27/2015 | 13:34:29 | 52.82 | 51.12 | 736 | 1.82 | 1.27 | 40.2 |
| 4/27/2015 | 13:34:30 | 53.15 | 51.45 | 719 | 1.74 | 1.35 | 39.3 |
| 4/27/2015 | 13:34:31 | 53.48 | 51.78 | 630 | 1.76 | 1.30 | 34.4 |
| 4/27/2015 | 13:34:36 | 53.81 | 52.11 | 67 | 1.76 | 1.12 | 3.7 |
| 4/27/2015 | 13:34:37 | 54.13 | 52.43 | 198 | 1.81 | 1.30 | 10.8 |
| 4/27/2015 | 13:34:39 | 54.46 | 52.76 | 217 | 1.79 | 1.25 | 11.9 |
| 4/27/2015 | 13:34:40 | 54.79 | 53.09 | 198 | 1.72 | 1.10 | 10.8 |
| 4/27/2015 | 13:34:42 | 55.12 | 53.42 | 251 | 1.70 | 1.42 | 13.7 |
| 4/27/2015 | 13:34:53 | 55.45 | 53.75 | 0 | 1.72 | 1.21 | 0.0 |
| 4/27/2015 | 13:34:54 | 55.77 | 54.07 | 145 | 1.75 | 1.37 | 7.9 |
| 4/27/2015 | 13:34:54 | 56.10 | 54.40 | 253 | 1.73 | 1.29 | 13.8 |
| 4/27/2015 | 13:34:55 | 56.43 | 54.73 | 253 | 1.79 | 1.13 | 13.8 |
| 4/27/2015 | 13:34:56 | 56.76 | 55.06 | 373 | 1.77 | 1.35 | 20.4 |
| 4/27/2015 | 13:34:57 | 57.09 | 55.39 | 470 | 1.79 | 1.35 | 25.7 |
| 4/27/2015 | 13:34:57 | 57.41 | 55.71 | 529 | 1.76 | 1.29 | 28.9 |
| 4/27/2015 | 13:34:57 | 57.45 | 55.75 | 529 | 1.76 | 1.29 | 28.9 |

## I132 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 13:32:25

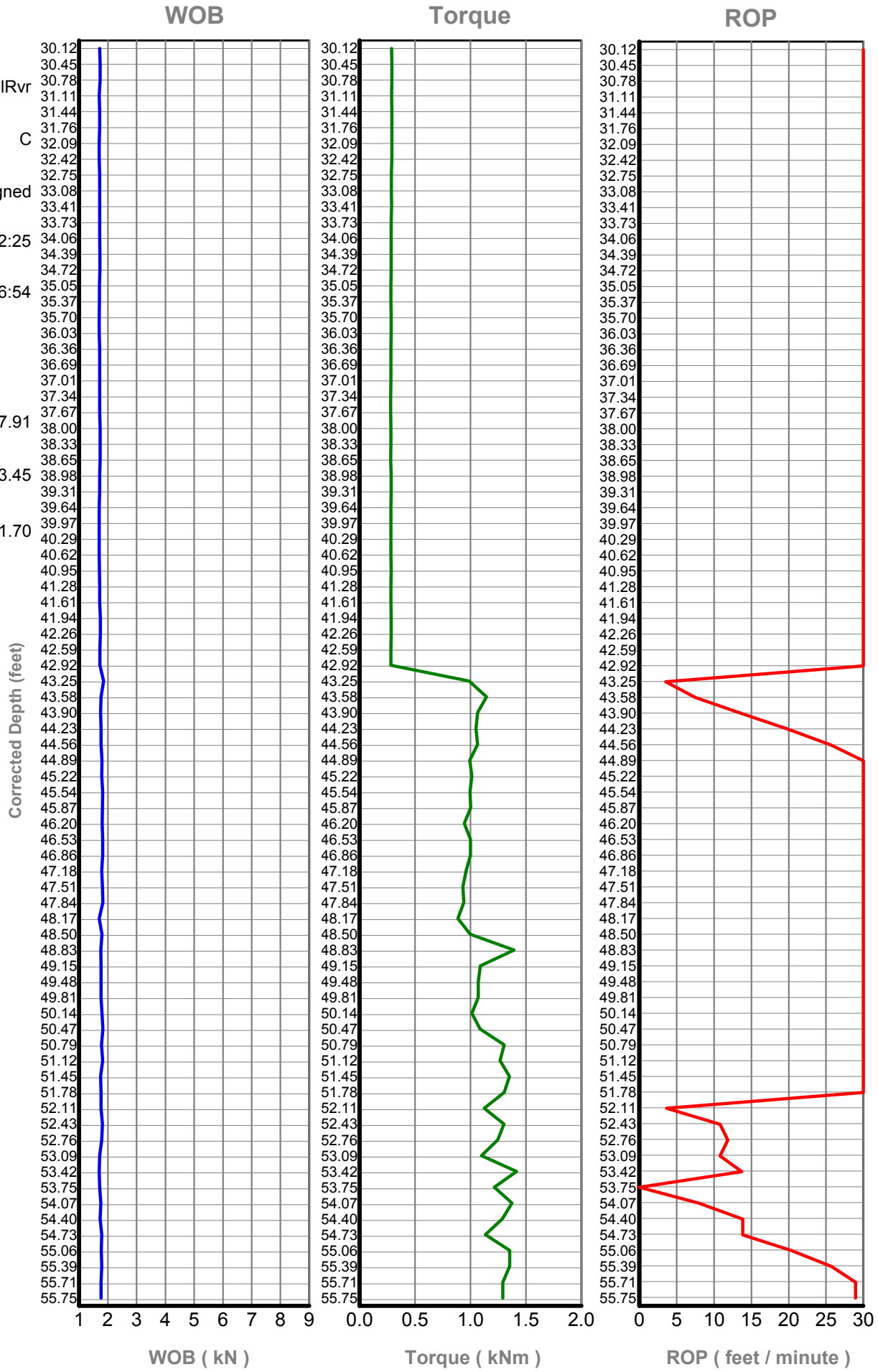
**End Date:**
4/27/2015 13:36:54

**Operator Note:**
'1.7 1.9 C Auto Complete'

**Northing:**
364,437.91

**Easting:**
248,823.45

**Tide (feet):**
1.70



## Hole: I14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:28:05 | 30.84 | 30.04 | 1,084 | 0.29 | 0.38 | 59.3 |
| 4/29/2015 4:28:05 | 31.17 | 30.37 | 1,109 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:28:05 | 31.50 | 30.70 | 1,109 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:28:05 | 31.82 | 31.02 | 1,102 | 0.29 | 0.38 | 60.3 |
| 4/29/2015 4:28:06 | 32.15 | 31.35 | 1,109 | 0.29 | 0.38 | 60.6 |
| 4/29/2015 4:28:06 | 32.48 | 31.68 | 1,109 | 0.29 | 0.38 | 60.6 |
| 4/29/2015 4:28:06 | 32.81 | 32.01 | 1,100 | 0.31 | 0.37 | 60.1 |
| 4/29/2015 4:28:07 | 33.14 | 32.34 | 1,100 | 0.31 | 0.37 | 60.1 |
| 4/29/2015 4:28:07 | 33.46 | 32.66 | 1,114 | 0.29 | 0.38 | 60.9 |
| 4/29/2015 4:28:07 | 33.79 | 32.99 | 1,107 | 0.29 | 0.38 | 60.5 |
| 4/29/2015 4:28:08 | 34.12 | 33.32 | 1,107 | 0.29 | 0.38 | 60.5 |
| 4/29/2015 4:28:08 | 34.45 | 33.65 | 1,101 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:08 | 34.78 | 33.98 | 1,095 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 4:28:09 | 35.11 | 34.31 | 1,095 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 4:28:09 | 35.43 | 34.63 | 1,104 | 0.29 | 0.38 | 60.4 |
| 4/29/2015 4:28:09 | 35.76 | 34.96 | 1,104 | 0.29 | 0.38 | 60.4 |
| 4/29/2015 4:28:09 | 36.09 | 35.29 | 1,101 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:28:10 | 36.42 | 35.62 | 1,096 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 4:28:10 | 36.75 | 35.95 | 1,096 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 4:28:10 | 37.07 | 36.27 | 1,096 | 0.29 | 0.37 | 59.9 |
| 4/29/2015 4:28:11 | 37.40 | 36.60 | 1,101 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:11 | 37.73 | 36.93 | 1,101 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:11 | 38.06 | 37.26 | 1,101 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:12 | 38.39 | 37.59 | 1,101 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:12 | 38.71 | 37.91 | 1,098 | 0.29 | 0.38 | 60.1 |
| 4/29/2015 4:28:13 | 39.04 | 38.24 | 1,095 | 0.29 | 0.37 | 59.9 |
| 4/29/2015 4:28:13 | 39.37 | 38.57 | 1,095 | 0.29 | 0.37 | 59.9 |
| 4/29/2015 4:28:13 | 39.70 | 38.90 | 1,110 | 0.29 | 0.38 | 60.7 |
| 4/29/2015 4:28:14 | 40.03 | 39.23 | 1,102 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:28:14 | 40.35 | 39.55 | 1,102 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:28:14 | 40.68 | 39.88 | 1,102 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:15 | 41.01 | 40.21 | 1,102 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:15 | 41.34 | 40.54 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:28:15 | 41.67 | 40.87 | 1,110 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:28:16 | 41.99 | 41.19 | 1,110 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:28:16 | 42.32 | 41.52 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:28:16 | 42.65 | 41.85 | 1,107 | 0.29 | 0.37 | 60.5 |
| 4/29/2015 4:28:17 | 42.98 | 42.18 | 1,107 | 0.29 | 0.37 | 60.5 |
| 4/29/2015 4:28:17 | 43.31 | 42.51 | 1,100 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:17 | 43.64 | 42.84 | 1,100 | 0.29 | 0.38 | 60.2 |
| 4/29/2015 4:28:17 | 43.96 | 43.16 | 1,110 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:28:18 | 44.29 | 43.49 | 1,107 | 0.29 | 0.38 | 60.5 |
| 4/29/2015 4:28:18 | 44.62 | 43.82 | 1,107 | 0.29 | 0.38 | 60.5 |
| 4/29/2015 4:28:18 | 44.95 | 44.15 | 1,107 | 0.31 | 0.41 | 60.5 |
| 4/29/2015 4:28:24 | 45.28 | 44.48 | 0 | 3.96 | 0.44 | 0.0 |
| 4/29/2015 4:28:26 | 45.60 | 44.80 | 156 | 4.78 | 0.47 | 8.5 |
| 4/29/2015 4:28:29 | 45.93 | 45.13 | 53 | 2.92 | 0.42 | 2.9 |
| 4/29/2015 4:28:30 | 46.26 | 45.46 | 139 | 3.16 | 0.44 | 7.6 |
| 4/29/2015 4:28:33 | 46.59 | 45.79 | 161 | 3.15 | 0.47 | 8.8 |
| 4/29/2015 4:28:38 | 46.92 | 46.12 | 61 | 3.89 | 0.47 | 3.3 |
| 4/29/2015 4:28:52 | 47.24 | 46.44 | 24 | 3.44 | 0.46 | 1.3 |
| 4/29/2015 4:28:56 | 47.57 | 46.77 | 116 | 3.33 | 0.46 | 6.3 |
| 4/29/2015 4:28:59 | 47.90 | 47.10 | 113 | 2.97 | 0.46 | 6.2 |
| 4/29/2015 4:29:02 | 48.23 | 47.43 | 121 | 3.12 | 0.45 | 6.6 |
| 4/29/2015 4:29:06 | 48.56 | 47.76 | 104 | 3.56 | 0.44 | 5.7 |
| 4/29/2015 4:29:09 | 48.88 | 48.08 | 111 | 3.60 | 0.46 | 6.1 |
| 4/29/2015 4:29:12 | 49.21 | 48.41 | 116 | 4.11 | 0.46 | 6.3 |
| 4/29/2015 4:29:16 | 49.54 | 48.74 | 106 | 3.48 | 0.46 | 5.8 |
| 4/29/2015 4:29:19 | 49.87 | 49.07 | 91 | 3.86 | 0.46 | 5.0 |
| 4/29/2015 4:29:22 | 50.20 | 49.40 | 99 | 3.94 | 0.46 | 5.4 |
| 4/29/2015 4:29:27 | 50.53 | 49.73 | 86 | 3.99 | 0.47 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:29:30 | 50.85 | 50.05 | 106 | 4.34 | 0.45 | 5.8 |
| 4/29/2015 | 4:29:33 | 51.18 | 50.38 | 104 | 3.99 | 0.47 | 5.7 |
| 4/29/2015 | 4:29:37 | 51.51 | 50.71 | 108 | 3.75 | 0.46 | 5.9 |
| 4/29/2015 | 4:29:41 | 51.84 | 51.04 | 95 | 3.71 | 0.46 | 5.2 |
| 4/29/2015 | 4:29:43 | 52.17 | 51.37 | 138 | 3.12 | 0.44 | 7.6 |
| 4/29/2015 | 4:29:45 | 52.49 | 51.69 | 201 | 3.26 | 0.45 | 11.0 |
| 4/29/2015 | 4:29:46 | 52.82 | 52.02 | 246 | 2.63 | 0.43 | 13.4 |
| 4/29/2015 | 4:29:51 | 53.15 | 52.35 | 0 | 2.69 | 0.45 | 0.0 |
| 4/29/2015 | 4:29:52 | 53.48 | 52.68 | 93 | 3.22 | 0.46 | 5.1 |
| 4/29/2015 | 4:29:57 | 53.81 | 53.01 | 80 | 2.88 | 0.46 | 4.4 |
| 4/29/2015 | 4:30:02 | 54.13 | 53.33 | 75 | 2.74 | 0.46 | 4.1 |
| 4/29/2015 | 4:30:06 | 54.46 | 53.66 | 79 | 2.63 | 0.46 | 4.3 |
| 4/29/2015 | 4:30:10 | 54.79 | 53.99 | 94 | 2.89 | 0.46 | 5.2 |
| 4/29/2015 | 4:30:14 | 55.12 | 54.32 | 86 | 3.03 | 0.45 | 4.7 |
| 4/29/2015 | 4:30:16 | 55.45 | 54.65 | 143 | 3.15 | 0.45 | 7.8 |
| 4/29/2015 | 4:30:28 | 55.77 | 54.97 | 31 | 3.31 | 0.45 | 1.7 |
| 4/29/2015 | 4:30:31 | 55.87 | 55.07 | 48 | 3.88 | 0.46 | 2.6 |

## I14 - Summary

**Pattern Number:**
AreaI_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:26:43

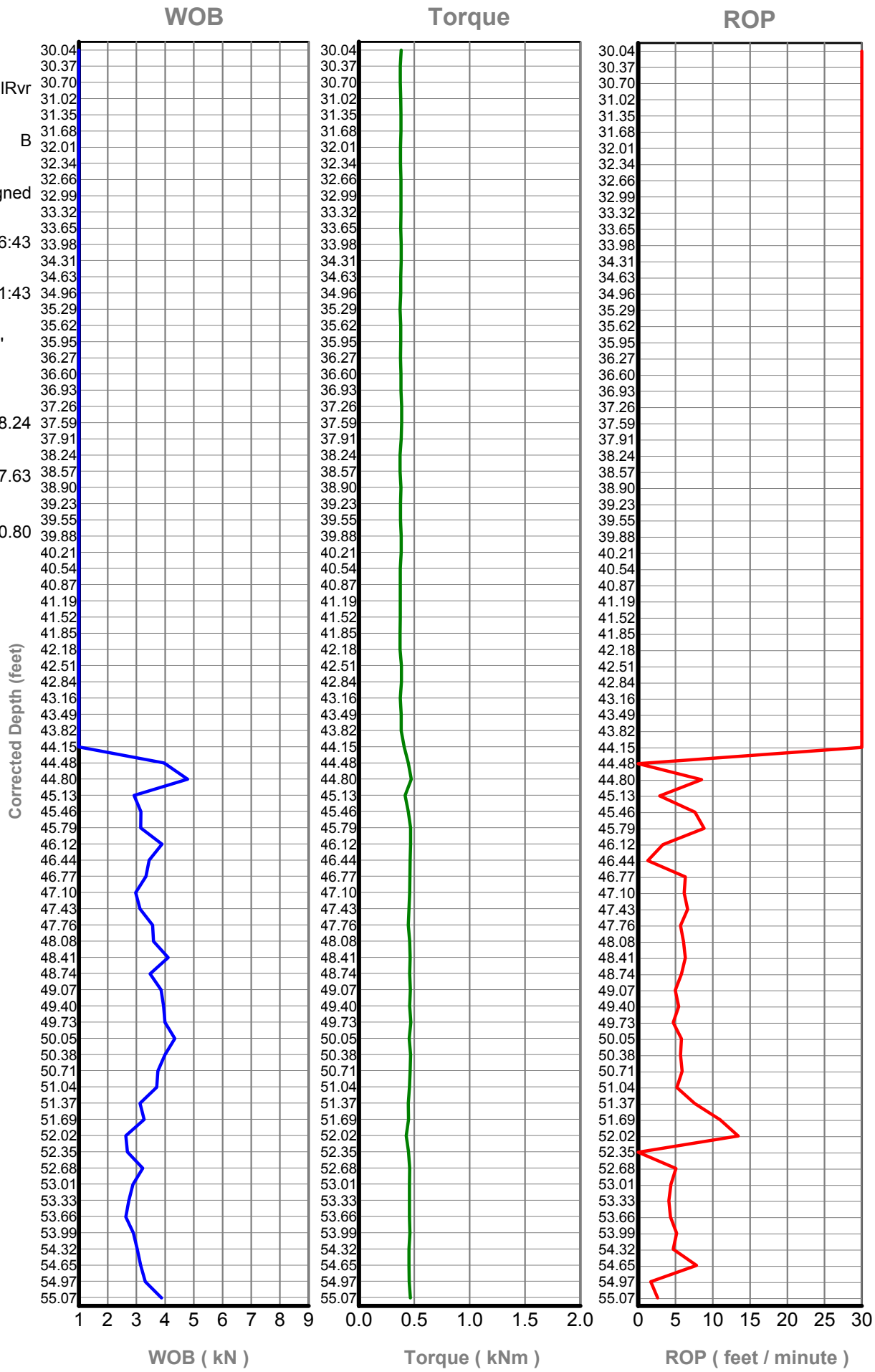
**End Date:**
4/29/2015 4:31:43

**Operator Note:**
'0.8 0.9b Auto Complete'

**Northing:**
364,348.24

**Easting:**
247,647.63

**Tide (feet):**
0.80



## Hole: I15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:28:07 | 30.84 | 30.04 | 1,040 | 1.60 | 0.14 | 56.9 |
| 4/29/2015 4:28:07 | 31.17 | 30.37 | 1,049 | 1.62 | 0.13 | 57.4 |
| 4/29/2015 4:28:08 | 31.50 | 30.70 | 1,049 | 1.62 | 0.13 | 57.4 |
| 4/29/2015 4:28:08 | 31.82 | 31.02 | 1,035 | 1.59 | 0.14 | 56.6 |
| 4/29/2015 4:28:08 | 32.15 | 31.35 | 1,039 | 1.62 | 0.13 | 56.8 |
| 4/29/2015 4:28:09 | 32.48 | 31.68 | 1,039 | 1.62 | 0.13 | 56.8 |
| 4/29/2015 4:28:09 | 32.81 | 32.01 | 1,044 | 1.61 | 0.14 | 57.1 |
| 4/29/2015 4:28:09 | 33.14 | 32.34 | 1,047 | 1.61 | 0.14 | 57.3 |
| 4/29/2015 4:28:10 | 33.46 | 32.66 | 1,047 | 1.61 | 0.14 | 57.3 |
| 4/29/2015 4:28:10 | 33.79 | 32.99 | 1,044 | 1.62 | 0.14 | 57.1 |
| 4/29/2015 4:28:10 | 34.12 | 33.32 | 1,053 | 1.60 | 0.14 | 57.6 |
| 4/29/2015 4:28:11 | 34.45 | 33.65 | 1,053 | 1.60 | 0.14 | 57.6 |
| 4/29/2015 4:28:11 | 34.78 | 33.98 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/29/2015 4:28:12 | 35.11 | 34.31 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/29/2015 4:28:12 | 35.43 | 34.63 | 1,044 | 1.61 | 0.14 | 57.1 |
| 4/29/2015 4:28:12 | 35.76 | 34.96 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:13 | 36.09 | 35.29 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:13 | 36.42 | 35.62 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:13 | 36.75 | 35.95 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:14 | 37.07 | 36.27 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:14 | 37.40 | 36.60 | 1,038 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 4:28:14 | 37.73 | 36.93 | 1,038 | 1.62 | 0.14 | 56.8 |
| 4/29/2015 4:28:15 | 38.06 | 37.26 | 1,038 | 1.62 | 0.14 | 56.8 |
| 4/29/2015 4:28:15 | 38.39 | 37.59 | 1,041 | 1.59 | 0.13 | 56.9 |
| 4/29/2015 4:28:15 | 38.71 | 37.91 | 1,031 | 1.59 | 0.14 | 56.4 |
| 4/29/2015 4:28:16 | 39.04 | 38.24 | 1,031 | 1.59 | 0.14 | 56.4 |
| 4/29/2015 4:28:16 | 39.37 | 38.57 | 1,041 | 1.62 | 0.14 | 56.9 |
| 4/29/2015 4:28:16 | 39.70 | 38.90 | 1,032 | 1.59 | 0.14 | 56.5 |
| 4/29/2015 4:28:17 | 40.03 | 39.23 | 1,032 | 1.59 | 0.14 | 56.5 |
| 4/29/2015 4:28:17 | 40.35 | 39.55 | 1,039 | 1.61 | 0.14 | 56.8 |
| 4/29/2015 4:28:17 | 40.68 | 39.88 | 1,036 | 1.61 | 0.14 | 56.6 |
| 4/29/2015 4:28:18 | 41.01 | 40.21 | 1,036 | 1.61 | 0.14 | 56.6 |
| 4/29/2015 4:28:18 | 41.34 | 40.54 | 1,042 | 1.61 | 0.14 | 57.0 |
| 4/29/2015 4:28:18 | 41.67 | 40.87 | 1,039 | 1.63 | 0.14 | 56.8 |
| 4/29/2015 4:28:19 | 41.99 | 41.19 | 1,039 | 1.63 | 0.14 | 56.8 |
| 4/29/2015 4:28:19 | 42.32 | 41.52 | 1,044 | 1.62 | 0.14 | 57.1 |
| 4/29/2015 4:28:19 | 42.65 | 41.85 | 1,029 | 1.62 | 0.14 | 56.2 |
| 4/29/2015 4:28:20 | 42.98 | 42.18 | 1,029 | 1.62 | 0.14 | 56.2 |
| 4/29/2015 4:28:20 | 43.31 | 42.51 | 1,038 | 1.62 | 0.14 | 56.8 |
| 4/29/2015 4:28:20 | 43.64 | 42.84 | 1,032 | 1.62 | 0.14 | 56.4 |
| 4/29/2015 4:28:21 | 43.96 | 43.16 | 1,032 | 1.62 | 0.14 | 56.4 |
| 4/29/2015 4:28:21 | 44.29 | 43.49 | 1,029 | 1.62 | 0.14 | 56.3 |
| 4/29/2015 4:28:22 | 44.62 | 43.82 | 1,013 | 1.60 | 0.14 | 55.4 |
| 4/29/2015 4:28:22 | 44.95 | 44.15 | 1,013 | 1.60 | 0.14 | 55.4 |
| 4/29/2015 4:28:22 | 45.28 | 44.48 | 1,013 | 1.59 | 0.14 | 55.4 |
| 4/29/2015 4:28:23 | 45.60 | 44.80 | 1,026 | 1.60 | 0.14 | 56.1 |
| 4/29/2015 4:28:23 | 45.93 | 45.13 | 1,026 | 1.60 | 0.14 | 56.1 |
| 4/29/2015 4:28:23 | 46.26 | 45.46 | 1,016 | 1.60 | 0.14 | 55.6 |
| 4/29/2015 4:28:24 | 46.59 | 45.79 | 1,019 | 1.62 | 0.14 | 55.7 |
| 4/29/2015 4:28:35 | 46.92 | 46.12 | 0 | 1.64 | 1.06 | 0.0 |
| 4/29/2015 4:28:36 | 47.24 | 46.44 | 124 | 1.71 | 1.14 | 6.8 |
| 4/29/2015 4:28:36 | 47.57 | 46.77 | 244 | 1.67 | 1.39 | 13.3 |
| 4/29/2015 4:28:37 | 47.90 | 47.10 | 381 | 1.70 | 1.23 | 20.8 |
| 4/29/2015 4:28:49 | 48.23 | 47.43 | 56 | 1.66 | 1.12 | 3.1 |
| 4/29/2015 4:28:50 | 48.56 | 47.76 | 253 | 1.66 | 1.21 | 13.8 |
| 4/29/2015 4:29:02 | 48.88 | 48.08 | 18 | 1.68 | 1.17 | 1.0 |
| 4/29/2015 4:29:06 | 49.21 | 48.41 | 47 | 1.68 | 1.16 | 2.5 |
| 4/29/2015 4:29:07 | 49.54 | 48.74 | 195 | 1.66 | 1.19 | 10.7 |
| 4/29/2015 4:29:09 | 49.87 | 49.07 | 211 | 1.68 | 1.18 | 11.6 |
| 4/29/2015 4:29:11 | 50.20 | 49.40 | 180 | 1.68 | 1.24 | 9.8 |
| 4/29/2015 4:29:12 | 50.53 | 49.73 | 248 | 1.68 | 1.13 | 13.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:29:27 | 50.85 | 50.05 | 78 | 1.68 | 1.21 | 4.3 |
| 4/29/2015 | 4:29:30 | 51.18 | 50.38 | 90 | 1.68 | 1.16 | 4.9 |
| 4/29/2015 | 4:29:34 | 51.51 | 50.71 | 110 | 1.71 | 1.22 | 6.0 |
| 4/29/2015 | 4:29:37 | 51.84 | 51.04 | 101 | 1.70 | 1.21 | 5.5 |
| 4/29/2015 | 4:29:42 | 52.17 | 51.37 | 58 | 1.69 | 1.26 | 3.2 |
| 4/29/2015 | 4:29:52 | 52.49 | 51.69 | 33 | 1.68 | 1.32 | 1.8 |
| 4/29/2015 | 4:30:26 | 52.82 | 52.02 | 25 | 1.70 | 1.33 | 1.3 |
| 4/29/2015 | 4:30:53 | 53.15 | 52.35 | 50 | 1.68 | 1.18 | 2.7 |
| 4/29/2015 | 4:30:58 | 53.48 | 52.68 | 74 | 1.67 | 1.26 | 4.0 |
| 4/29/2015 | 4:31:03 | 53.81 | 53.01 | 70 | 1.68 | 1.28 | 3.9 |
| 4/29/2015 | 4:31:08 | 54.13 | 53.33 | 67 | 1.68 | 1.31 | 3.7 |
| 4/29/2015 | 4:31:13 | 54.46 | 53.66 | 67 | 1.70 | 1.29 | 3.7 |
| 4/29/2015 | 4:31:20 | 54.79 | 53.99 | 51 | 1.70 | 1.27 | 2.8 |
| 4/29/2015 | 4:31:26 | 55.12 | 54.32 | 58 | 1.66 | 1.24 | 3.2 |
| 4/29/2015 | 4:31:32 | 55.45 | 54.65 | 68 | 1.70 | 1.17 | 3.7 |
| 4/29/2015 | 4:31:37 | 55.77 | 54.97 | 63 | 1.69 | 1.24 | 3.5 |
| 4/29/2015 | 4:31:41 | 55.97 | 55.17 | 59 | 1.69 | 1.23 | 3.2 |

## I15 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:27:05

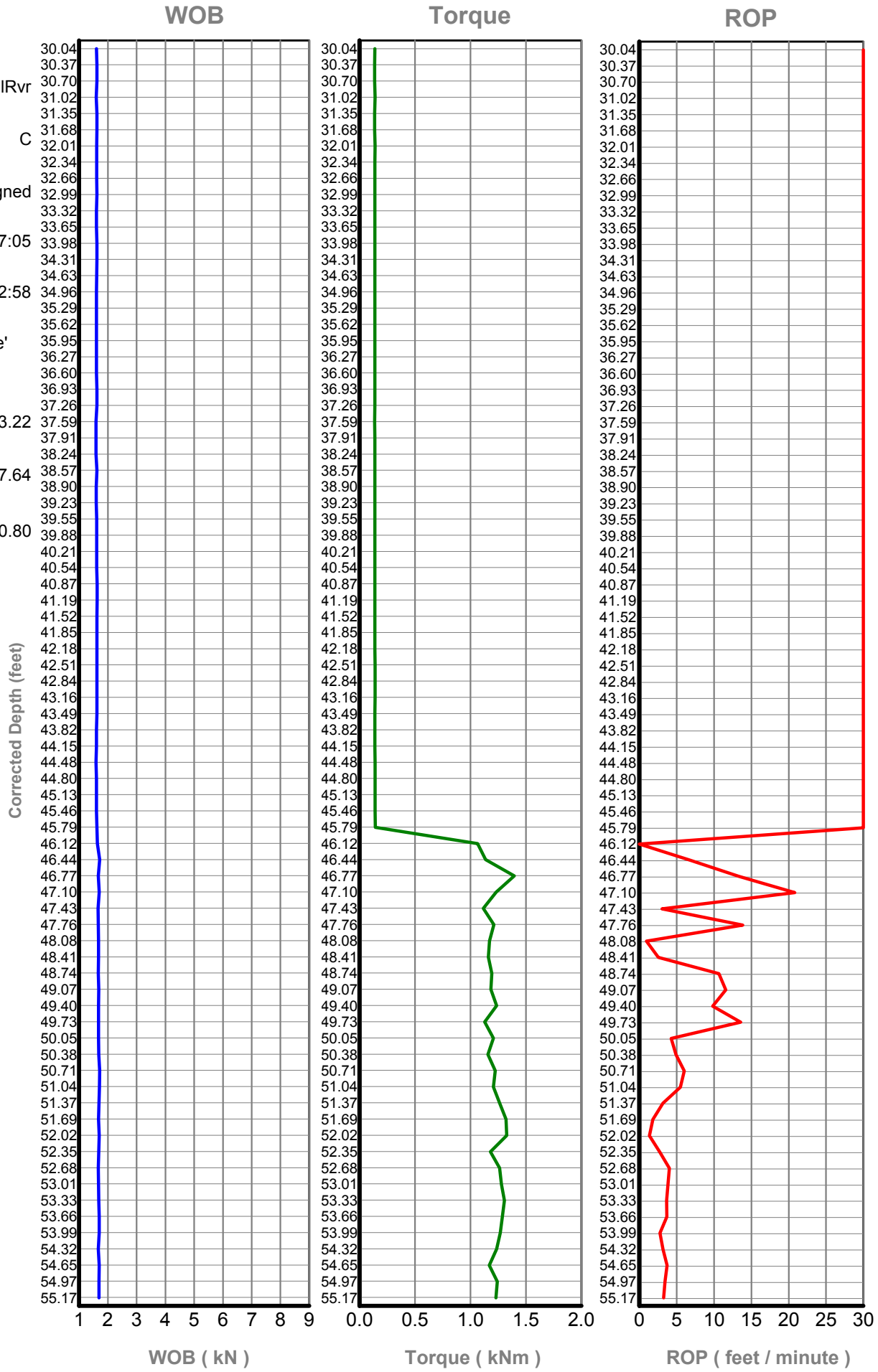
**End Date:**
4/29/2015 4:32:58

**Operator Note:**
'0.8 0.9 c Auto Complete'

**Northing:**
364,393.22

**Easting:**
247,707.64

**Tide (feet):**
0.80



## Hole: I16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:51:14 | 34.12 | 30.12 | 789 | 1.04 | 0.81 | 43.2 |
| 4/29/2015 0:51:15 | 34.45 | 30.45 | 786 | 1.04 | 0.79 | 43.0 |
| 4/29/2015 0:51:16 | 34.78 | 30.78 | 791 | 1.06 | 0.81 | 43.2 |
| 4/29/2015 0:51:16 | 35.11 | 31.11 | 783 | 1.05 | 0.78 | 42.8 |
| 4/29/2015 0:51:17 | 35.43 | 31.43 | 786 | 1.04 | 0.80 | 43.0 |
| 4/29/2015 0:51:17 | 35.76 | 31.76 | 783 | 1.04 | 0.18 | 42.8 |
| 4/29/2015 0:51:18 | 36.09 | 32.09 | 783 | 1.04 | 0.18 | 42.8 |
| 4/29/2015 0:51:18 | 36.42 | 32.42 | 783 | 1.06 | 0.18 | 42.8 |
| 4/29/2015 0:51:18 | 36.75 | 32.75 | 782 | 1.06 | 0.16 | 42.7 |
| 4/29/2015 0:51:19 | 37.07 | 33.07 | 789 | 1.07 | 0.18 | 43.2 |
| 4/29/2015 0:51:19 | 37.40 | 33.40 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 0:51:20 | 37.73 | 33.73 | 797 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 0:51:20 | 38.06 | 34.06 | 784 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 0:51:21 | 38.39 | 34.39 | 784 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 0:51:21 | 38.71 | 34.71 | 796 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 0:51:21 | 39.04 | 35.04 | 773 | 1.04 | 0.18 | 42.2 |
| 4/29/2015 0:51:22 | 39.37 | 35.37 | 773 | 1.06 | 0.18 | 42.2 |
| 4/29/2015 0:51:22 | 39.70 | 35.70 | 783 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 0:51:23 | 40.03 | 36.03 | 786 | 1.04 | 0.18 | 43.0 |
| 4/29/2015 0:51:23 | 40.35 | 36.35 | 798 | 1.06 | 0.18 | 43.6 |
| 4/29/2015 0:51:24 | 40.68 | 36.68 | 782 | 1.06 | 0.18 | 42.8 |
| 4/29/2015 0:51:24 | 41.01 | 37.01 | 782 | 1.06 | 0.18 | 42.8 |
| 4/29/2015 0:51:24 | 41.34 | 37.34 | 803 | 1.06 | 0.18 | 43.9 |
| 4/29/2015 0:51:25 | 41.67 | 37.67 | 792 | 1.05 | 0.18 | 43.3 |
| 4/29/2015 0:51:26 | 41.99 | 37.99 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 0:51:26 | 42.32 | 38.32 | 786 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 0:51:27 | 42.65 | 38.65 | 789 | 1.03 | 0.18 | 43.2 |
| 4/29/2015 0:51:27 | 42.98 | 38.98 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 0:51:28 | 43.31 | 39.31 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 0:51:28 | 43.64 | 39.64 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 0:51:28 | 43.96 | 39.96 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 0:51:29 | 44.29 | 40.29 | 789 | 1.04 | 0.18 | 43.2 |
| 4/29/2015 0:51:29 | 44.62 | 40.62 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 0:51:30 | 44.95 | 40.95 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 0:51:30 | 45.28 | 41.28 | 789 | 1.06 | 0.18 | 43.2 |
| 4/29/2015 0:51:31 | 45.60 | 41.60 | 782 | 1.06 | 0.18 | 42.7 |
| 4/29/2015 0:51:31 | 45.93 | 41.93 | 782 | 1.06 | 0.18 | 42.7 |
| 4/29/2015 0:51:31 | 46.26 | 42.26 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 0:51:32 | 46.59 | 42.59 | 786 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 0:51:32 | 46.92 | 42.92 | 783 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 0:51:33 | 47.24 | 43.24 | 783 | 1.07 | 0.18 | 42.8 |
| 4/29/2015 0:51:33 | 47.57 | 43.57 | 791 | 1.05 | 0.18 | 43.3 |
| 4/29/2015 0:51:34 | 47.90 | 43.90 | 783 | 1.05 | 0.18 | 42.8 |
| 4/29/2015 0:51:34 | 48.23 | 44.23 | 783 | 1.05 | 0.18 | 42.8 |
| 4/29/2015 0:51:35 | 48.56 | 44.56 | 783 | 1.05 | 0.18 | 42.8 |
| 4/29/2015 0:51:35 | 48.88 | 44.88 | 779 | 1.05 | 0.18 | 42.6 |
| 4/29/2015 0:51:36 | 49.21 | 45.21 | 786 | 1.06 | 0.18 | 43.0 |
| 4/29/2015 0:51:36 | 49.54 | 45.54 | 779 | 1.06 | 0.18 | 42.6 |
| 4/29/2015 0:51:37 | 49.87 | 45.87 | 772 | 1.07 | 0.18 | 42.2 |
| 4/29/2015 0:51:37 | 50.20 | 46.20 | 781 | 1.11 | 0.17 | 42.7 |
| 4/29/2015 0:52:01 | 50.53 | 46.53 | 0 | 1.04 | 0.88 | 0.0 |
| 4/29/2015 0:52:02 | 50.85 | 46.85 | 60 | 1.07 | 0.95 | 3.3 |
| 4/29/2015 0:52:20 | 51.18 | 47.18 | 0 | 1.66 | 1.24 | 0.0 |
| 4/29/2015 0:52:32 | 51.51 | 47.51 | 34 | 1.02 | 0.79 | 1.8 |
| 4/29/2015 0:52:41 | 51.84 | 47.84 | 40 | 1.01 | 1.19 | 2.2 |
| 4/29/2015 0:52:58 | 52.17 | 48.17 | 35 | 1.05 | 1.01 | 1.9 |
| 4/29/2015 0:53:20 | 52.49 | 48.49 | 24 | 1.09 | 0.92 | 1.3 |
| 4/29/2015 0:53:27 | 52.79 | 48.79 | 43 | 1.11 | 0.94 | 2.4 |

## I16 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:48:19

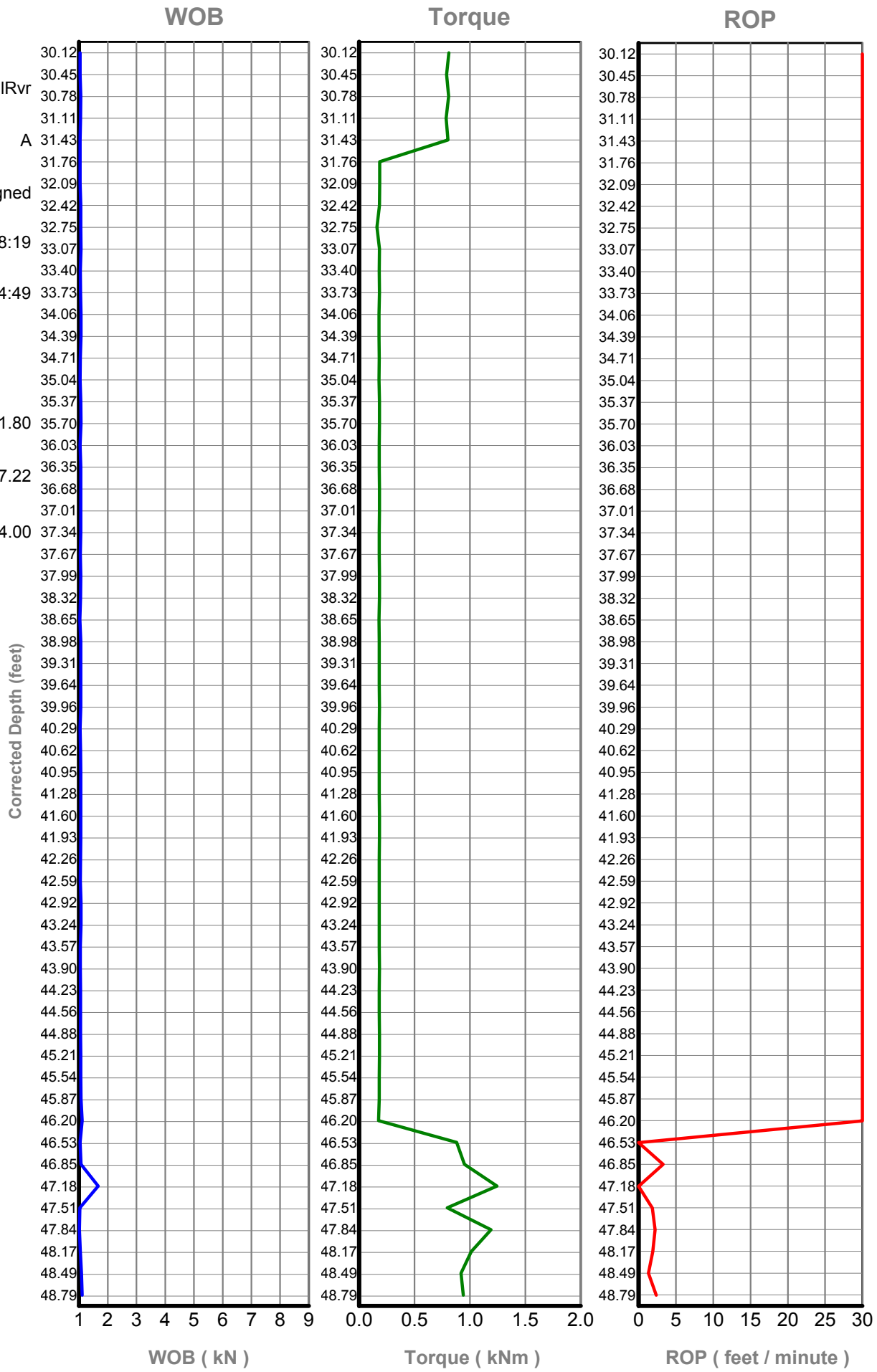
**End Date:**
4/29/2015 0:54:49

**Operator Note:**
'4 4.2 b Auto Complete'

**Northing:**
364,441.80

**Easting:**
247,767.22

**Tide (feet):**
4.00



## Hole: I17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:51:03 | 34.12 | 30.12 | 1,094 | 0.31 | 0.37 | 59.8 |
| 4/29/2015 0:51:03 | 34.45 | 30.45 | 1,100 | 0.32 | 0.38 | 60.1 |
| 4/29/2015 0:51:04 | 34.78 | 30.78 | 1,100 | 0.32 | 0.38 | 60.1 |
| 4/29/2015 0:51:04 | 35.11 | 31.11 | 1,087 | 0.31 | 0.37 | 59.4 |
| 4/29/2015 0:51:04 | 35.43 | 31.43 | 1,084 | 0.32 | 0.38 | 59.3 |
| 4/29/2015 0:51:05 | 35.76 | 31.76 | 1,084 | 0.32 | 0.38 | 59.3 |
| 4/29/2015 0:51:05 | 36.09 | 32.09 | 1,093 | 0.33 | 0.37 | 59.8 |
| 4/29/2015 0:51:06 | 36.42 | 32.42 | 1,084 | 0.32 | 0.38 | 59.3 |
| 4/29/2015 0:51:06 | 36.75 | 32.75 | 1,084 | 0.32 | 0.38 | 59.3 |
| 4/29/2015 0:51:06 | 37.07 | 33.07 | 1,058 | 0.31 | 0.38 | 57.9 |
| 4/29/2015 0:51:07 | 37.40 | 33.40 | 1,058 | 0.32 | 0.38 | 57.9 |
| 4/29/2015 0:51:07 | 37.73 | 33.73 | 1,058 | 0.32 | 0.38 | 57.9 |
| 4/29/2015 0:51:07 | 38.06 | 34.06 | 1,072 | 0.32 | 0.38 | 58.6 |
| 4/29/2015 0:51:08 | 38.39 | 34.39 | 1,072 | 0.32 | 0.38 | 58.6 |
| 4/29/2015 0:51:08 | 38.71 | 34.71 | 1,084 | 0.32 | 0.37 | 59.3 |
| 4/29/2015 0:51:08 | 39.04 | 35.04 | 1,075 | 0.32 | 0.37 | 58.8 |
| 4/29/2015 0:51:09 | 39.37 | 35.37 | 1,075 | 0.32 | 0.37 | 58.8 |
| 4/29/2015 0:51:09 | 39.70 | 35.70 | 1,075 | 0.31 | 0.37 | 58.8 |
| 4/29/2015 0:51:09 | 40.03 | 36.03 | 1,103 | 0.32 | 0.37 | 60.3 |
| 4/29/2015 0:51:10 | 40.35 | 36.35 | 1,103 | 0.32 | 0.37 | 60.3 |
| 4/29/2015 0:51:10 | 40.68 | 36.68 | 1,074 | 0.32 | 0.37 | 58.7 |
| 4/29/2015 0:51:10 | 41.01 | 37.01 | 1,074 | 0.32 | 0.37 | 58.7 |
| 4/29/2015 0:51:10 | 41.34 | 37.34 | 1,074 | 0.32 | 0.37 | 58.7 |
| 4/29/2015 0:51:11 | 41.67 | 37.67 | 1,075 | 0.31 | 0.37 | 58.8 |
| 4/29/2015 0:51:11 | 41.99 | 37.99 | 1,075 | 0.31 | 0.37 | 58.8 |
| 4/29/2015 0:51:11 | 42.32 | 38.32 | 1,084 | 0.32 | 0.38 | 59.3 |
| 4/29/2015 0:51:12 | 42.65 | 38.65 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 0:51:12 | 42.98 | 38.98 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 0:51:12 | 43.31 | 39.31 | 1,085 | 0.32 | 0.37 | 59.3 |
| 4/29/2015 0:51:13 | 43.64 | 39.64 | 1,085 | 0.32 | 0.37 | 59.3 |
| 4/29/2015 0:51:13 | 43.96 | 39.96 | 1,097 | 0.32 | 0.37 | 60.0 |
| 4/29/2015 0:51:13 | 44.29 | 40.29 | 1,099 | 0.31 | 0.37 | 60.1 |
| 4/29/2015 0:51:14 | 44.62 | 40.62 | 1,099 | 0.31 | 0.37 | 60.1 |
| 4/29/2015 0:51:14 | 44.95 | 40.95 | 1,062 | 0.32 | 0.37 | 58.1 |
| 4/29/2015 0:51:14 | 45.28 | 41.28 | 1,062 | 0.32 | 0.37 | 58.1 |
| 4/29/2015 0:51:15 | 45.60 | 41.60 | 1,062 | 0.32 | 0.37 | 58.1 |
| 4/29/2015 0:51:15 | 45.93 | 41.93 | 1,085 | 0.32 | 0.37 | 59.3 |
| 4/29/2015 0:51:15 | 46.26 | 42.26 | 1,085 | 0.32 | 0.37 | 59.3 |
| 4/29/2015 0:51:15 | 46.59 | 42.59 | 1,087 | 0.32 | 0.38 | 59.4 |
| 4/29/2015 0:51:16 | 46.92 | 42.92 | 1,096 | 0.32 | 0.38 | 59.9 |
| 4/29/2015 0:51:17 | 47.24 | 43.24 | 1,096 | 0.32 | 0.38 | 59.9 |
| 4/29/2015 0:51:17 | 47.57 | 43.57 | 1,084 | 0.31 | 0.38 | 59.3 |
| 4/29/2015 0:51:17 | 47.90 | 43.90 | 1,105 | 0.32 | 0.37 | 60.4 |
| 4/29/2015 0:51:18 | 48.23 | 44.23 | 1,105 | 0.32 | 0.37 | 60.4 |
| 4/29/2015 0:51:18 | 48.56 | 44.56 | 1,082 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 0:51:18 | 48.88 | 44.88 | 1,082 | 0.28 | 0.46 | 59.2 |
| 4/29/2015 0:51:23 | 49.21 | 45.21 | 67 | 3.51 | 0.43 | 3.6 |
| 4/29/2015 0:51:28 | 49.54 | 45.54 | 54 | 4.17 | 0.43 | 3.0 |
| 4/29/2015 0:51:33 | 49.87 | 45.87 | 44 | 3.96 | 0.43 | 2.4 |
| 4/29/2015 0:51:40 | 50.20 | 46.20 | 55 | 3.75 | 0.45 | 3.0 |
| 4/29/2015 0:51:43 | 50.53 | 46.53 | 89 | 3.24 | 0.46 | 4.8 |
| 4/29/2015 0:51:48 | 50.85 | 46.85 | 81 | 3.68 | 0.47 | 4.4 |
| 4/29/2015 0:51:52 | 51.18 | 47.18 | 98 | 3.17 | 0.46 | 5.4 |
| 4/29/2015 0:51:55 | 51.51 | 47.51 | 118 | 3.29 | 0.46 | 6.4 |
| 4/29/2015 0:52:01 | 51.84 | 47.84 | 54 | 3.05 | 0.46 | 2.9 |
| 4/29/2015 0:52:08 | 52.17 | 48.17 | 52 | 3.28 | 0.47 | 2.9 |
| 4/29/2015 0:52:14 | 52.49 | 48.49 | 66 | 4.51 | 0.45 | 3.6 |
| 4/29/2015 0:52:22 | 52.82 | 48.82 | 43 | 3.24 | 0.46 | 2.4 |
| 4/29/2015 0:52:32 | 53.15 | 49.15 | 37 | 2.90 | 0.46 | 2.0 |
| 4/29/2015 0:52:40 | 53.48 | 49.48 | 46 | 2.97 | 0.47 | 2.5 |
| 4/29/2015 0:52:43 | 53.58 | 49.58 | 47 | 3.79 | 0.47 | 2.6 |

## I17 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:49:34

**End Date:**
4/29/2015 0:53:51

**Operator Note:**
'4 4.2b Auto Complete'

**Northing:**
364,489.47

**Easting:**
247,825.16

**Tide (feet):**
4.00



## Hole: I18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:50:14 | 34.12 | 30.12 | 1,127 | 1.62 | 0.13 | 61.6 |
| 4/29/2015 0:50:15 | 34.45 | 30.45 | 1,127 | 1.62 | 0.13 | 61.6 |
| 4/29/2015 0:50:15 | 34.78 | 30.78 | 1,124 | 1.59 | 0.14 | 61.5 |
| 4/29/2015 0:50:16 | 35.11 | 31.11 | 1,124 | 1.59 | 0.14 | 61.5 |
| 4/29/2015 0:50:16 | 35.43 | 31.43 | 1,124 | 1.60 | 0.13 | 61.5 |
| 4/29/2015 0:50:16 | 35.76 | 31.76 | 1,122 | 1.61 | 0.13 | 61.3 |
| 4/29/2015 0:50:17 | 36.09 | 32.09 | 1,122 | 1.61 | 0.13 | 61.3 |
| 4/29/2015 0:50:17 | 36.42 | 32.42 | 1,111 | 1.59 | 0.14 | 60.8 |
| 4/29/2015 0:50:17 | 36.75 | 32.75 | 1,111 | 1.59 | 0.14 | 60.8 |
| 4/29/2015 0:50:17 | 37.07 | 33.07 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 0:50:18 | 37.40 | 33.40 | 1,122 | 1.59 | 0.14 | 61.4 |
| 4/29/2015 0:50:18 | 37.73 | 33.73 | 1,122 | 1.59 | 0.14 | 61.4 |
| 4/29/2015 0:50:18 | 38.06 | 34.06 | 1,122 | 1.62 | 0.13 | 61.4 |
| 4/29/2015 0:50:19 | 38.39 | 34.39 | 1,128 | 1.59 | 0.14 | 61.7 |
| 4/29/2015 0:50:19 | 38.71 | 34.71 | 1,128 | 1.59 | 0.14 | 61.7 |
| 4/29/2015 0:50:19 | 39.04 | 35.04 | 1,132 | 1.60 | 0.13 | 61.9 |
| 4/29/2015 0:50:20 | 39.37 | 35.37 | 1,132 | 1.60 | 0.13 | 61.9 |
| 4/29/2015 0:50:20 | 39.70 | 35.70 | 1,121 | 1.60 | 0.13 | 61.3 |
| 4/29/2015 0:50:20 | 40.03 | 36.03 | 1,115 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 0:50:21 | 40.35 | 36.35 | 1,115 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 0:50:21 | 40.68 | 36.68 | 1,124 | 1.59 | 0.14 | 61.5 |
| 4/29/2015 0:50:21 | 41.01 | 37.01 | 1,124 | 1.59 | 0.14 | 61.5 |
| 4/29/2015 0:50:21 | 41.34 | 37.34 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 0:50:22 | 41.67 | 37.67 | 1,122 | 1.60 | 0.13 | 61.3 |
| 4/29/2015 0:50:22 | 41.99 | 37.99 | 1,122 | 1.60 | 0.13 | 61.3 |
| 4/29/2015 0:50:22 | 42.32 | 38.32 | 1,119 | 1.61 | 0.14 | 61.2 |
| 4/29/2015 0:50:23 | 42.65 | 38.65 | 1,119 | 1.61 | 0.14 | 61.2 |
| 4/29/2015 0:50:23 | 42.98 | 38.98 | 1,119 | 1.59 | 0.14 | 61.2 |
| 4/29/2015 0:50:23 | 43.31 | 39.31 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 0:50:24 | 43.64 | 39.64 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 0:50:24 | 43.96 | 39.96 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 0:50:24 | 44.29 | 40.29 | 1,106 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 0:50:25 | 44.62 | 40.62 | 1,106 | 1.59 | 0.14 | 60.5 |
| 4/29/2015 0:50:25 | 44.95 | 40.95 | 1,116 | 1.60 | 0.13 | 61.0 |
| 4/29/2015 0:50:25 | 45.28 | 41.28 | 1,116 | 1.60 | 0.13 | 61.0 |
| 4/29/2015 0:50:25 | 45.60 | 41.60 | 1,110 | 1.59 | 0.14 | 60.7 |
| 4/29/2015 0:50:26 | 45.93 | 41.93 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 0:50:27 | 46.26 | 42.26 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 0:50:27 | 46.59 | 42.59 | 1,110 | 1.62 | 0.14 | 60.7 |
| 4/29/2015 0:50:27 | 46.92 | 42.92 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 0:50:28 | 47.24 | 43.24 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 0:50:28 | 47.57 | 43.57 | 1,110 | 1.63 | 0.13 | 60.7 |
| 4/29/2015 0:50:28 | 47.90 | 43.90 | 1,110 | 1.63 | 0.13 | 60.7 |
| 4/29/2015 0:50:28 | 48.23 | 44.23 | 1,110 | 1.61 | 0.14 | 60.7 |
| 4/29/2015 0:50:29 | 48.56 | 44.56 | 1,097 | 1.59 | 0.13 | 60.0 |
| 4/29/2015 0:50:29 | 48.88 | 44.88 | 1,097 | 1.59 | 0.13 | 60.0 |
| 4/29/2015 0:50:29 | 49.21 | 45.21 | 1,111 | 1.60 | 0.14 | 60.7 |
| 4/29/2015 0:50:30 | 49.54 | 45.54 | 1,111 | 1.60 | 0.14 | 60.7 |
| 4/29/2015 0:50:40 | 49.87 | 45.87 | 58 | 1.57 | 1.19 | 3.2 |
| 4/29/2015 0:50:40 | 50.20 | 46.20 | 110 | 1.73 | 1.11 | 6.0 |
| 4/29/2015 0:50:41 | 50.53 | 46.53 | 213 | 1.68 | 1.10 | 11.7 |
| 4/29/2015 0:50:50 | 50.85 | 46.85 | 130 | 1.66 | 1.22 | 7.1 |
| 4/29/2015 0:51:14 | 51.18 | 47.18 | 29 | 1.69 | 1.31 | 1.6 |
| 4/29/2015 0:51:26 | 51.51 | 47.51 | 32 | 1.66 | 1.20 | 1.8 |
| 4/29/2015 0:51:36 | 51.84 | 47.84 | 35 | 1.67 | 1.20 | 1.9 |
| 4/29/2015 0:51:40 | 52.16 | 48.16 | 84 | 1.63 | 1.33 | 4.6 |

## I18 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:48:59

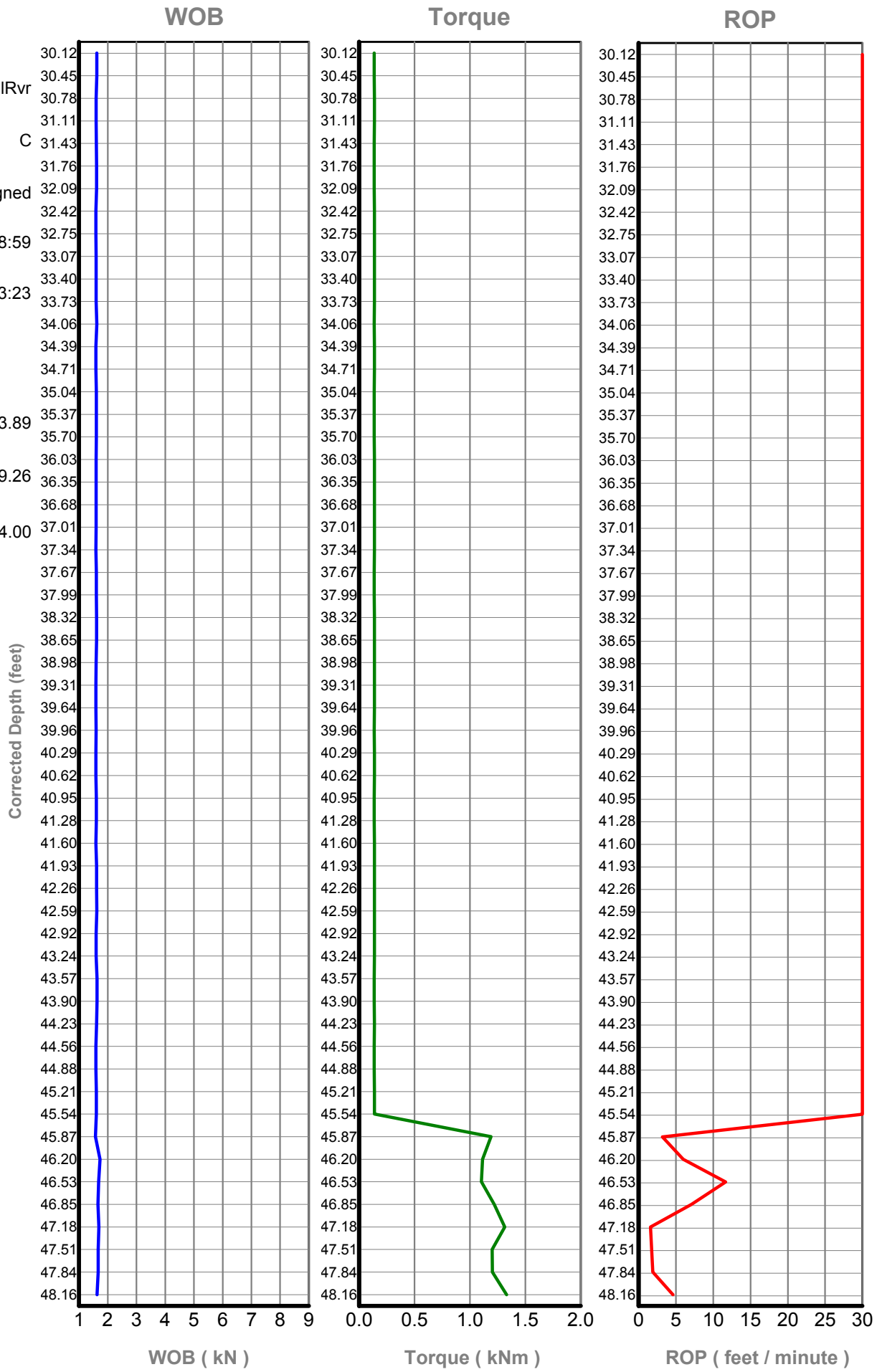
**End Date:**
4/29/2015 0:53:23

**Operator Note:**
'4 4.2 c Auto Complete'

**Northing:**
364,533.89

**Easting:**
247,879.26

**Tide (feet):**
4.00



## Hole: I19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:58:37 | 35.11 | 30.21 | 740 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:58:38 | 35.43 | 30.53 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:58:38 | 35.76 | 30.86 | 743 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:58:39 | 36.09 | 31.19 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:58:39 | 36.42 | 31.52 | 746 | 1.08 | 0.19 | 40.8 |
| 4/28/2015 23:58:40 | 36.75 | 31.85 | 752 | 1.07 | 0.19 | 41.1 |
| 4/28/2015 23:58:40 | 37.07 | 32.17 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:58:41 | 37.40 | 32.50 | 744 | 1.07 | 0.19 | 40.7 |
| 4/28/2015 23:58:42 | 37.73 | 32.83 | 740 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:58:42 | 38.06 | 33.16 | 740 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:58:42 | 38.39 | 33.49 | 749 | 1.07 | 0.19 | 41.0 |
| 4/28/2015 23:58:43 | 38.71 | 33.81 | 752 | 1.07 | 0.19 | 41.1 |
| 4/28/2015 23:58:43 | 39.04 | 34.14 | 749 | 1.07 | 0.19 | 41.0 |
| 4/28/2015 23:58:44 | 39.37 | 34.47 | 749 | 1.06 | 0.19 | 41.0 |
| 4/28/2015 23:58:44 | 39.70 | 34.80 | 758 | 1.07 | 0.19 | 41.4 |
| 4/28/2015 23:58:45 | 40.03 | 35.13 | 749 | 1.07 | 0.19 | 40.9 |
| 4/28/2015 23:58:45 | 40.35 | 35.45 | 744 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:58:46 | 40.68 | 35.78 | 752 | 1.07 | 0.19 | 41.1 |
| 4/28/2015 23:58:46 | 41.01 | 36.11 | 752 | 1.07 | 0.19 | 41.1 |
| 4/28/2015 23:58:47 | 41.34 | 36.44 | 749 | 1.07 | 0.19 | 40.9 |
| 4/28/2015 23:58:47 | 41.67 | 36.77 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:58:48 | 41.99 | 37.09 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:58:48 | 42.32 | 37.42 | 750 | 1.06 | 0.19 | 41.0 |
| 4/28/2015 23:58:48 | 42.65 | 37.75 | 743 | 1.09 | 0.20 | 40.6 |
| 4/28/2015 23:58:49 | 42.98 | 38.08 | 740 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:58:49 | 43.31 | 38.41 | 734 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:58:50 | 43.64 | 38.74 | 746 | 1.08 | 0.19 | 40.8 |
| 4/28/2015 23:58:50 | 43.96 | 39.06 | 743 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:58:51 | 44.29 | 39.39 | 743 | 1.07 | 0.19 | 40.7 |
| 4/28/2015 23:58:52 | 44.62 | 39.72 | 746 | 1.08 | 0.19 | 40.8 |
| 4/28/2015 23:58:52 | 44.95 | 40.05 | 755 | 1.08 | 0.19 | 41.3 |
| 4/28/2015 23:58:53 | 45.28 | 40.38 | 743 | 1.09 | 0.19 | 40.6 |
| 4/28/2015 23:58:53 | 45.60 | 40.70 | 743 | 1.08 | 0.19 | 40.6 |
| 4/28/2015 23:58:54 | 45.93 | 41.03 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:58:54 | 46.26 | 41.36 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:58:54 | 46.59 | 41.69 | 743 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:58:55 | 46.92 | 42.02 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:58:55 | 47.24 | 42.34 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:58:56 | 47.57 | 42.67 | 733 | 1.07 | 0.19 | 40.1 |
| 4/28/2015 23:58:56 | 47.90 | 43.00 | 744 | 1.06 | 0.19 | 40.7 |
| 4/28/2015 23:58:57 | 48.23 | 43.33 | 734 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:58:57 | 48.56 | 43.66 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:58:58 | 48.88 | 43.98 | 737 | 1.06 | 0.19 | 40.3 |
| 4/28/2015 23:58:58 | 49.21 | 44.31 | 740 | 1.06 | 0.19 | 40.5 |
| 4/28/2015 23:58:59 | 49.54 | 44.64 | 737 | 1.06 | 0.19 | 40.3 |
| 4/28/2015 23:58:59 | 49.87 | 44.97 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:59:00 | 50.20 | 45.30 | 733 | 1.07 | 0.19 | 40.1 |
| 4/28/2015 23:59:00 | 50.53 | 45.63 | 740 | 1.08 | 0.19 | 40.5 |
| 4/28/2015 23:59:01 | 50.85 | 45.95 | 740 | 1.08 | 0.19 | 40.5 |
| 4/28/2015 23:59:01 | 51.18 | 46.28 | 723 | 1.07 | 0.19 | 39.5 |
| 4/28/2015 23:59:01 | 51.51 | 46.61 | 723 | 1.10 | 0.18 | 39.5 |
| 4/28/2015 23:59:21 | 51.84 | 46.94 | 49 | 1.13 | 1.08 | 2.7 |
| 4/28/2015 23:59:33 | 52.17 | 47.27 | 18 | 1.07 | 1.16 | 1.0 |
| 4/28/2015 23:59:36 | 52.49 | 47.59 | 60 | 1.14 | 1.16 | 3.3 |
| 4/28/2015 23:59:39 | 52.82 | 47.92 | 130 | 1.07 | 1.06 | 7.1 |
| 4/28/2015 23:59:40 | 53.15 | 48.25 | 204 | 1.70 | 1.13 | 11.2 |
| 4/28/2015 23:59:40 | 53.48 | 48.58 | 299 | 1.15 | 1.22 | 16.4 |
| 4/28/2015 23:59:50 | 53.81 | 48.91 | 60 | 1.03 | 1.10 | 3.3 |
| 4/28/2015 23:59:51 | 54.13 | 49.23 | 164 | 1.09 | 1.10 | 9.0 |
| 4/29/2015 0:00:05 | 54.46 | 49.56 | 78 | 0.99 | 1.19 | 4.3 |
| 4/29/2015 0:00:09 | 54.79 | 49.89 | 86 | 1.05 | 1.16 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:00:13 | 55.12 | 50.22 | 89 | 1.07 | 1.23 | 4.9 |
| 4/29/2015 | 0:00:17 | 55.45 | 50.55 | 95 | 1.06 | 1.18 | 5.2 |
| 4/29/2015 | 0:00:21 | 55.77 | 50.87 | 87 | 1.02 | 1.23 | 4.7 |
| 4/29/2015 | 0:00:25 | 56.10 | 51.20 | 89 | 1.03 | 1.11 | 4.9 |
| 4/29/2015 | 0:00:29 | 56.43 | 51.53 | 93 | 1.05 | 1.13 | 5.1 |
| 4/29/2015 | 0:00:32 | 56.76 | 51.86 | 127 | 1.03 | 1.02 | 7.0 |
| 4/29/2015 | 0:00:41 | 57.09 | 52.19 | 41 | 1.92 | 1.26 | 2.2 |
| 4/29/2015 | 0:00:44 | 57.41 | 52.51 | 158 | 1.07 | 0.89 | 8.6 |
| 4/29/2015 | 0:00:47 | 57.74 | 52.84 | 121 | 1.04 | 1.12 | 6.6 |
| 4/29/2015 | 0:00:49 | 58.07 | 53.17 | 141 | 1.06 | 1.18 | 7.7 |
| 4/29/2015 | 0:00:52 | 58.40 | 53.50 | 118 | 1.02 | 1.21 | 6.5 |
| 4/29/2015 | 0:00:57 | 58.73 | 53.83 | 75 | 1.09 | 1.17 | 4.1 |
| 4/29/2015 | 0:01:05 | 59.06 | 54.16 | 56 | 1.06 | 1.21 | 3.0 |
| 4/29/2015 | 0:01:10 | 59.38 | 54.48 | 87 | 1.02 | 1.12 | 4.7 |
| 4/29/2015 | 0:01:20 | 59.71 | 54.81 | 38 | 0.99 | 1.13 | 2.1 |
| 4/29/2015 | 0:01:35 | 60.04 | 55.14 | 0 | 1.77 | 0.91 | 0.0 |

## I19 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:57:30

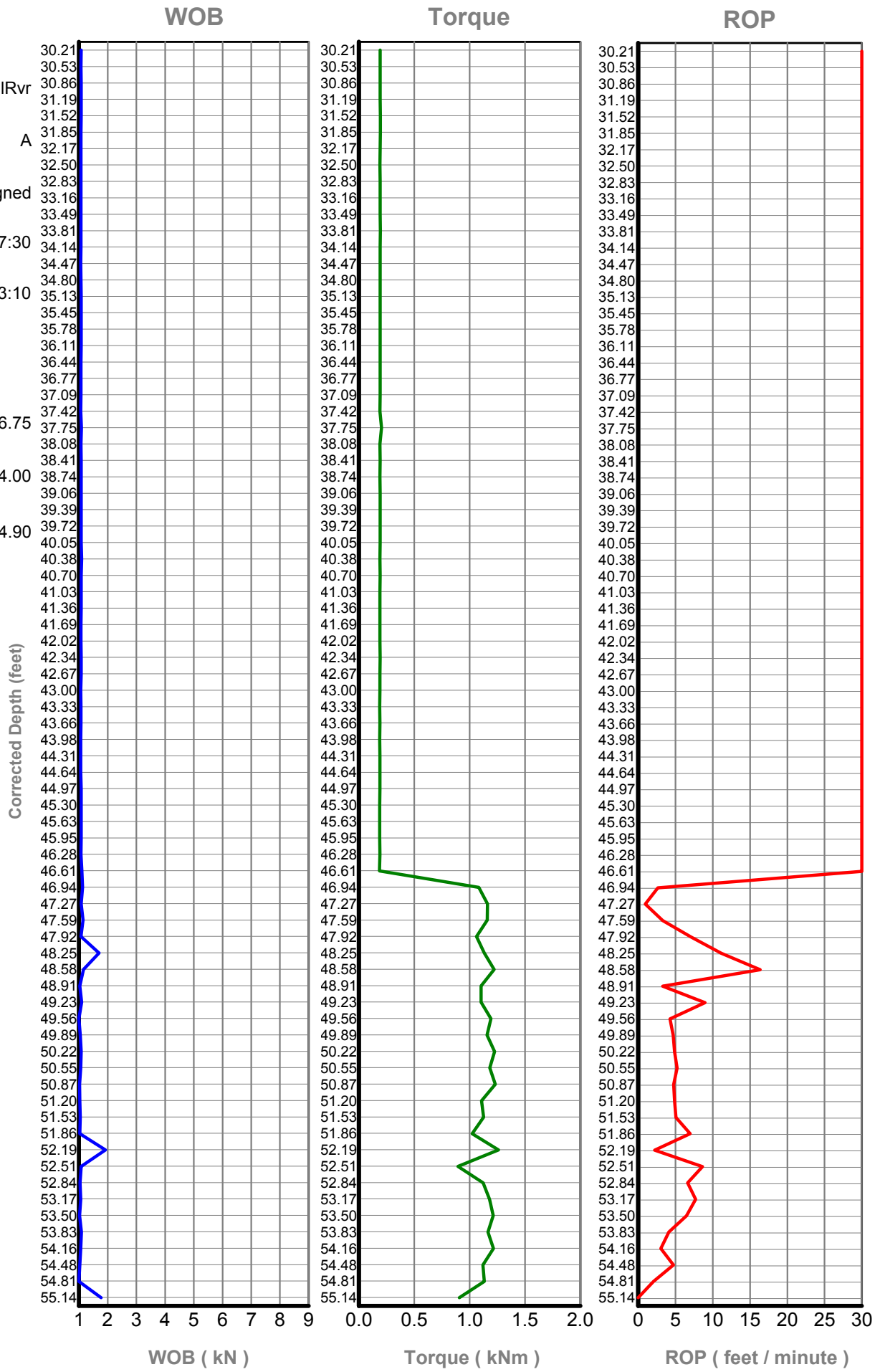
**End Date:**
4/29/2015 0:03:10

**Operator Note:**
'4.9 '5 5.1 b Auto Complete'

**Northing:**
364,586.75

**Easting:**
247,934.00

**Tide (feet):**
4.90



## Hole: I2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:42:44 | 30.84 | 30.04 | 1,110 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:42:44 | 31.17 | 30.37 | 1,110 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:42:44 | 31.50 | 30.70 | 1,100 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:42:45 | 31.82 | 31.02 | 1,100 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:42:45 | 32.15 | 31.35 | 1,113 | 0.29 | 0.37 | 60.9 |
| 4/29/2015 4:42:45 | 32.48 | 31.68 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:46 | 32.81 | 32.01 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:46 | 33.14 | 32.34 | 1,104 | 0.29 | 0.38 | 60.4 |
| 4/29/2015 4:42:46 | 33.46 | 32.66 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:47 | 33.79 | 32.99 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:47 | 34.12 | 33.32 | 1,119 | 0.29 | 0.37 | 61.2 |
| 4/29/2015 4:42:48 | 34.45 | 33.65 | 1,119 | 0.29 | 0.37 | 61.2 |
| 4/29/2015 4:42:48 | 34.78 | 33.98 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/29/2015 4:42:48 | 35.11 | 34.31 | 1,111 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:42:49 | 35.43 | 34.63 | 1,111 | 0.29 | 0.37 | 60.7 |
| 4/29/2015 4:42:49 | 35.76 | 34.96 | 1,107 | 0.29 | 0.37 | 60.5 |
| 4/29/2015 4:42:49 | 36.09 | 35.29 | 1,119 | 0.29 | 0.37 | 61.2 |
| 4/29/2015 4:42:50 | 36.42 | 35.62 | 1,119 | 0.29 | 0.37 | 61.2 |
| 4/29/2015 4:42:50 | 36.75 | 35.95 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:50 | 37.07 | 36.27 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:50 | 37.40 | 36.60 | 1,101 | 0.29 | 0.37 | 60.2 |
| 4/29/2015 4:42:51 | 37.73 | 36.93 | 1,107 | 0.29 | 0.37 | 60.5 |
| 4/29/2015 4:42:51 | 38.06 | 37.26 | 1,107 | 0.29 | 0.37 | 60.5 |
| 4/29/2015 4:42:51 | 38.39 | 37.59 | 1,113 | 0.29 | 0.37 | 60.9 |
| 4/29/2015 4:42:52 | 38.71 | 37.91 | 1,113 | 0.29 | 0.37 | 60.9 |
| 4/29/2015 4:42:52 | 39.04 | 38.24 | 1,110 | 0.29 | 0.38 | 60.7 |
| 4/29/2015 4:42:52 | 39.37 | 38.57 | 1,113 | 0.29 | 0.37 | 60.8 |
| 4/29/2015 4:42:53 | 39.70 | 38.90 | 1,113 | 0.29 | 0.37 | 60.8 |
| 4/29/2015 4:42:53 | 40.03 | 39.23 | 1,112 | 0.29 | 0.38 | 60.8 |
| 4/29/2015 4:42:53 | 40.35 | 39.55 | 1,121 | 0.29 | 0.37 | 61.3 |
| 4/29/2015 4:42:54 | 40.68 | 39.88 | 1,121 | 0.29 | 0.37 | 61.3 |
| 4/29/2015 4:42:54 | 41.01 | 40.21 | 1,098 | 0.29 | 0.37 | 60.0 |
| 4/29/2015 4:42:54 | 41.34 | 40.54 | 1,098 | 0.29 | 0.37 | 60.0 |
| 4/29/2015 4:42:54 | 41.67 | 40.87 | 1,098 | 0.29 | 0.37 | 60.0 |
| 4/29/2015 4:42:55 | 41.99 | 41.19 | 1,110 | 0.30 | 0.37 | 60.7 |
| 4/29/2015 4:42:55 | 42.32 | 41.52 | 1,110 | 0.30 | 0.37 | 60.7 |
| 4/29/2015 4:42:55 | 42.65 | 41.85 | 1,116 | 0.29 | 0.38 | 61.0 |
| 4/29/2015 4:42:56 | 42.98 | 42.18 | 1,116 | 0.29 | 0.38 | 61.0 |
| 4/29/2015 4:42:56 | 43.31 | 42.51 | 1,113 | 0.29 | 0.37 | 60.9 |
| 4/29/2015 4:42:56 | 43.64 | 42.84 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:57 | 43.96 | 43.16 | 1,104 | 0.29 | 0.37 | 60.4 |
| 4/29/2015 4:42:57 | 44.29 | 43.49 | 1,125 | 0.29 | 0.37 | 61.5 |
| 4/29/2015 4:42:58 | 44.62 | 43.82 | 1,119 | 0.29 | 0.38 | 61.2 |
| 4/29/2015 4:42:58 | 44.95 | 44.15 | 1,119 | 0.29 | 0.38 | 61.2 |
| 4/29/2015 4:42:58 | 45.28 | 44.48 | 1,112 | 0.29 | 0.38 | 60.8 |
| 4/29/2015 4:42:59 | 45.60 | 44.80 | 1,112 | 0.29 | 0.38 | 60.8 |
| 4/29/2015 4:42:59 | 45.93 | 45.13 | 1,122 | 0.29 | 0.40 | 61.3 |
| 4/29/2015 4:43:02 | 46.26 | 45.46 | 0 | 4.21 | 0.44 | 0.0 |
| 4/29/2015 4:43:06 | 46.59 | 45.79 | 80 | 4.32 | 0.47 | 4.4 |
| 4/29/2015 4:43:10 | 46.92 | 46.12 | 95 | 2.99 | 0.45 | 5.2 |
| 4/29/2015 4:43:14 | 47.24 | 46.44 | 90 | 3.80 | 0.45 | 4.9 |
| 4/29/2015 4:43:17 | 47.57 | 46.77 | 114 | 3.69 | 0.46 | 6.3 |
| 4/29/2015 4:43:37 | 47.90 | 47.10 | 0 | 3.53 | 0.45 | 0.0 |
| 4/29/2015 4:43:40 | 48.23 | 47.43 | 111 | 3.26 | 0.45 | 6.1 |
| 4/29/2015 4:43:43 | 48.56 | 47.76 | 128 | 2.86 | 0.44 | 7.0 |
| 4/29/2015 4:43:46 | 48.88 | 48.08 | 113 | 3.28 | 0.46 | 6.2 |
| 4/29/2015 4:43:50 | 49.21 | 48.41 | 109 | 3.34 | 0.46 | 6.0 |
| 4/29/2015 4:43:53 | 49.54 | 48.74 | 110 | 3.23 | 0.45 | 6.0 |
| 4/29/2015 4:43:56 | 49.87 | 49.07 | 116 | 3.22 | 0.46 | 6.3 |
| 4/29/2015 4:44:00 | 50.20 | 49.40 | 90 | 3.62 | 0.46 | 4.9 |
| 4/29/2015 4:44:03 | 50.53 | 49.73 | 107 | 3.56 | 0.46 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:44:06 | 50.85 | 50.05 | 106 | 3.69 | 0.45 | 5.8 |
| 4/29/2015 | 4:44:09 | 51.18 | 50.38 | 107 | 3.45 | 0.45 | 5.9 |
| 4/29/2015 | 4:44:13 | 51.51 | 50.71 | 122 | 3.12 | 0.46 | 6.6 |
| 4/29/2015 | 4:44:16 | 51.84 | 51.04 | 118 | 3.45 | 0.45 | 6.5 |
| 4/29/2015 | 4:44:17 | 52.17 | 51.37 | 139 | 2.89 | 0.45 | 7.6 |
| 4/29/2015 | 4:44:20 | 52.49 | 51.69 | 128 | 3.43 | 0.46 | 7.0 |
| 4/29/2015 | 4:44:24 | 52.82 | 52.02 | 95 | 3.62 | 0.47 | 5.2 |
| 4/29/2015 | 4:44:27 | 53.15 | 52.35 | 124 | 3.23 | 0.45 | 6.8 |
| 4/29/2015 | 4:44:30 | 53.48 | 52.68 | 119 | 3.72 | 0.46 | 6.5 |
| 4/29/2015 | 4:44:34 | 53.81 | 53.01 | 100 | 3.55 | 0.45 | 5.5 |
| 4/29/2015 | 4:44:37 | 54.13 | 53.33 | 96 | 3.60 | 0.45 | 5.3 |
| 4/29/2015 | 4:44:41 | 54.46 | 53.66 | 95 | 3.64 | 0.46 | 5.2 |
| 4/29/2015 | 4:44:45 | 54.79 | 53.99 | 98 | 3.28 | 0.45 | 5.4 |
| 4/29/2015 | 4:44:47 | 55.12 | 54.32 | 116 | 3.26 | 0.45 | 6.3 |
| 4/29/2015 | 4:44:51 | 55.45 | 54.65 | 107 | 3.64 | 0.46 | 5.8 |
| 4/29/2015 | 4:44:55 | 55.77 | 54.97 | 87 | 3.92 | 0.45 | 4.7 |

## I2 - Summary

**Pattern Number:**
AreaI_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:41:20

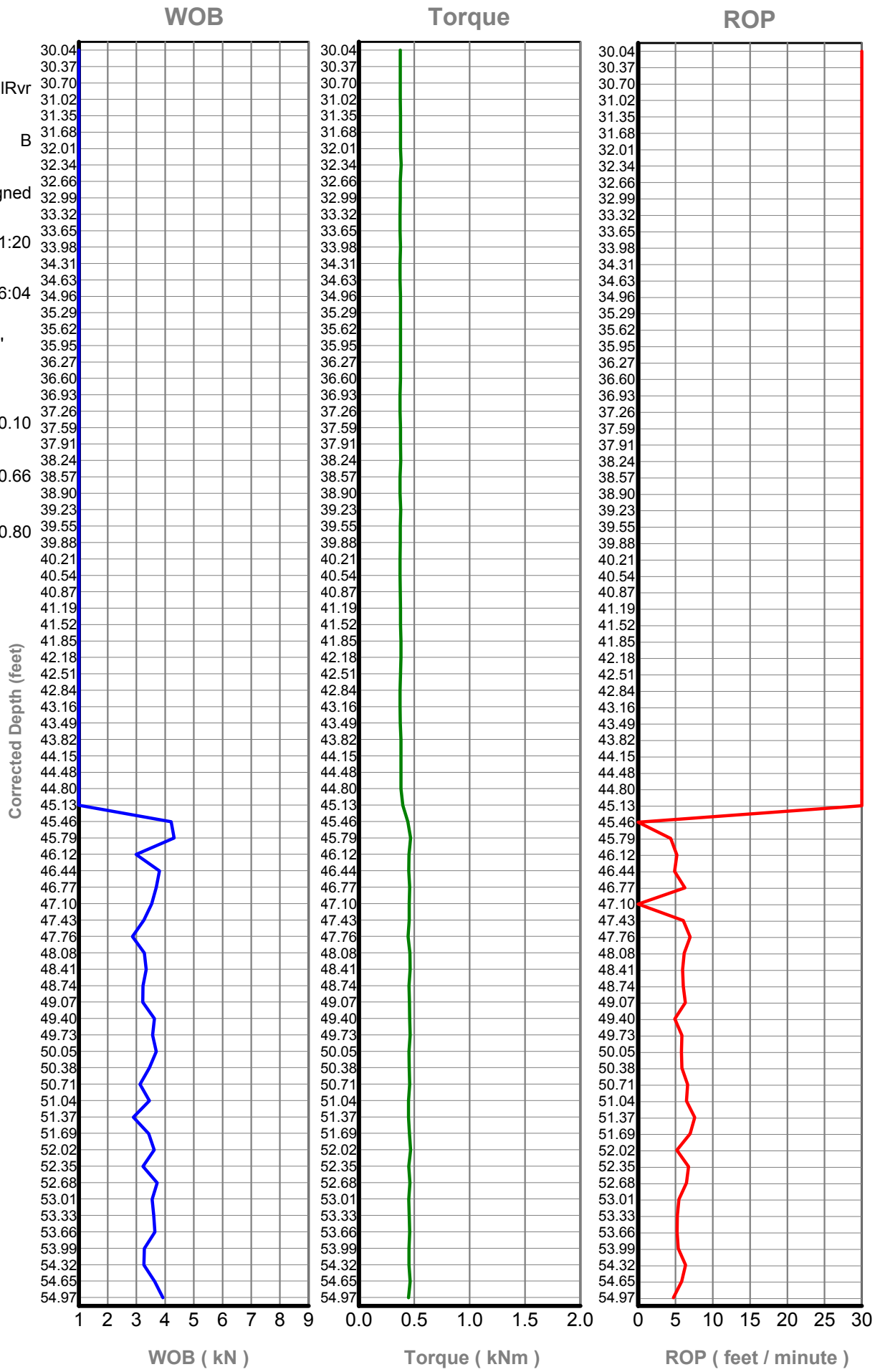
**End Date:**
4/29/2015 4:46:04

**Operator Note:**
'0.8 0.8b Auto Complete'

**Northing:**
364,410.10

**Easting:**
247,600.66

**Tide (feet):**
0.80



## Hole: I20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:58:33 | 35.11 | 30.11 | 1,111 | 0.31 | 0.37 | 60.7 |
| 4/28/2015 23:58:33 | 35.43 | 30.43 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/28/2015 23:58:34 | 35.76 | 30.76 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/28/2015 23:58:34 | 36.09 | 31.09 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/28/2015 23:58:34 | 36.42 | 31.42 | 1,105 | 0.31 | 0.37 | 60.4 |
| 4/28/2015 23:58:35 | 36.75 | 31.75 | 1,105 | 0.31 | 0.37 | 60.4 |
| 4/28/2015 23:58:35 | 37.07 | 32.07 | 1,105 | 0.31 | 0.37 | 60.4 |
| 4/28/2015 23:58:35 | 37.40 | 32.40 | 1,105 | 0.31 | 0.37 | 60.4 |
| 4/28/2015 23:58:35 | 37.73 | 32.73 | 1,108 | 0.31 | 0.36 | 60.6 |
| 4/28/2015 23:58:36 | 38.06 | 33.06 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/28/2015 23:58:36 | 38.39 | 33.39 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/28/2015 23:58:36 | 38.71 | 33.71 | 1,104 | 0.31 | 0.36 | 60.4 |
| 4/28/2015 23:58:37 | 39.04 | 34.04 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/28/2015 23:58:37 | 39.37 | 34.37 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/28/2015 23:58:37 | 39.70 | 34.70 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/28/2015 23:58:38 | 40.03 | 35.03 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/28/2015 23:58:38 | 40.35 | 35.35 | 1,110 | 0.31 | 0.36 | 60.7 |
| 4/28/2015 23:58:38 | 40.68 | 35.68 | 1,113 | 0.31 | 0.36 | 60.9 |
| 4/28/2015 23:58:39 | 41.01 | 36.01 | 1,113 | 0.31 | 0.36 | 60.9 |
| 4/28/2015 23:58:39 | 41.34 | 36.34 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/28/2015 23:58:39 | 41.67 | 36.67 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/28/2015 23:58:39 | 41.99 | 36.99 | 1,106 | 0.31 | 0.36 | 60.5 |
| 4/28/2015 23:58:40 | 42.32 | 37.32 | 1,102 | 0.31 | 0.36 | 60.3 |
| 4/28/2015 23:58:40 | 42.65 | 37.65 | 1,102 | 0.31 | 0.36 | 60.3 |
| 4/28/2015 23:58:41 | 42.98 | 37.98 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/28/2015 23:58:41 | 43.31 | 38.31 | 1,111 | 0.31 | 0.36 | 60.7 |
| 4/28/2015 23:58:42 | 43.64 | 38.64 | 1,111 | 0.31 | 0.36 | 60.7 |
| 4/28/2015 23:58:42 | 43.96 | 38.96 | 1,108 | 0.27 | 0.36 | 60.6 |
| 4/28/2015 23:58:42 | 44.29 | 39.29 | 1,108 | 0.27 | 0.36 | 60.6 |
| 4/28/2015 23:58:42 | 44.62 | 39.62 | 1,120 | 0.31 | 0.36 | 61.3 |
| 4/28/2015 23:58:43 | 44.95 | 39.95 | 1,124 | 0.32 | 0.37 | 61.5 |
| 4/28/2015 23:58:43 | 45.28 | 40.28 | 1,124 | 0.32 | 0.37 | 61.5 |
| 4/28/2015 23:58:43 | 45.60 | 40.60 | 1,113 | 0.31 | 0.36 | 60.9 |
| 4/28/2015 23:58:44 | 45.93 | 40.93 | 1,113 | 0.31 | 0.36 | 60.9 |
| 4/28/2015 23:58:44 | 46.26 | 41.26 | 1,109 | 0.31 | 0.37 | 60.7 |
| 4/28/2015 23:58:44 | 46.59 | 41.59 | 1,122 | 0.31 | 0.36 | 61.3 |
| 4/28/2015 23:58:45 | 46.92 | 41.92 | 1,122 | 0.31 | 0.36 | 61.3 |
| 4/28/2015 23:58:45 | 47.24 | 42.24 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:45 | 47.57 | 42.57 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:46 | 47.90 | 42.90 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:46 | 48.23 | 43.23 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:46 | 48.56 | 43.56 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:46 | 48.88 | 43.88 | 1,132 | 0.31 | 0.37 | 61.9 |
| 4/28/2015 23:58:47 | 49.21 | 44.21 | 1,115 | 0.31 | 0.37 | 61.0 |
| 4/28/2015 23:58:47 | 49.54 | 44.54 | 1,115 | 0.31 | 0.37 | 61.0 |
| 4/28/2015 23:58:47 | 49.87 | 44.87 | 1,120 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:48 | 50.20 | 45.20 | 1,120 | 0.31 | 0.37 | 61.2 |
| 4/28/2015 23:58:48 | 50.53 | 45.53 | 1,113 | 0.35 | 0.37 | 60.9 |
| 4/28/2015 23:58:48 | 50.85 | 45.85 | 1,123 | 0.31 | 0.37 | 61.4 |
| 4/28/2015 23:58:49 | 51.18 | 46.18 | 1,123 | 0.31 | 0.37 | 61.4 |
| 4/28/2015 23:58:53 | 51.51 | 46.51 | 56 | 3.41 | 0.44 | 3.1 |
| 4/28/2015 23:58:55 | 51.84 | 46.84 | 157 | 2.78 | 0.42 | 8.6 |
| 4/28/2015 23:58:57 | 52.17 | 47.17 | 240 | 5.00 | 0.44 | 13.1 |
| 4/28/2015 23:58:58 | 52.49 | 47.49 | 243 | 4.07 | 0.42 | 13.3 |
| 4/28/2015 23:58:59 | 52.82 | 47.82 | 266 | 4.72 | 0.44 | 14.5 |
| 4/28/2015 23:59:02 | 53.15 | 48.15 | 130 | 4.76 | 0.41 | 7.1 |
| 4/28/2015 23:59:09 | 53.48 | 48.48 | 73 | 4.05 | 0.44 | 4.0 |
| 4/28/2015 23:59:15 | 53.81 | 48.81 | 88 | 3.22 | 0.42 | 4.8 |
| 4/28/2015 23:59:16 | 54.13 | 49.13 | 229 | 2.95 | 0.44 | 12.5 |
| 4/28/2015 23:59:19 | 54.46 | 49.46 | 99 | 3.36 | 0.45 | 5.4 |
| 4/28/2015 23:59:23 | 54.79 | 49.79 | 104 | 3.83 | 0.45 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:59:29 | 55.12 | 50.12 | 58 | 3.79 | 0.46 | 3.2 |
| 4/28/2015 | 23:59:35 | 55.45 | 50.45 | 61 | 3.44 | 0.45 | 3.3 |
| 4/28/2015 | 23:59:37 | 55.77 | 50.77 | 122 | 3.31 | 0.45 | 6.7 |
| 4/28/2015 | 23:59:40 | 56.10 | 51.10 | 117 | 3.75 | 0.44 | 6.4 |
| 4/28/2015 | 23:59:41 | 56.43 | 51.43 | 156 | 3.19 | 0.44 | 8.5 |
| 4/28/2015 | 23:59:42 | 56.76 | 51.76 | 281 | 3.07 | 0.43 | 15.3 |
| 4/28/2015 | 23:59:44 | 57.09 | 52.09 | 321 | 3.22 | 0.45 | 17.5 |
| 4/28/2015 | 23:59:46 | 57.41 | 52.41 | 220 | 2.97 | 0.44 | 12.0 |
| 4/28/2015 | 23:59:50 | 57.74 | 52.74 | 87 | 3.88 | 0.44 | 4.7 |
| 4/28/2015 | 23:59:53 | 58.07 | 53.07 | 115 | 3.58 | 0.45 | 6.3 |
| 4/28/2015 | 23:59:58 | 58.40 | 53.40 | 61 | 4.00 | 0.45 | 3.3 |
| 4/29/2015 | 0:00:04 | 58.73 | 53.73 | 61 | 3.48 | 0.46 | 3.3 |
| 4/29/2015 | 0:00:10 | 59.06 | 54.06 | 61 | 3.55 | 0.46 | 3.3 |
| 4/29/2015 | 0:00:15 | 59.38 | 54.38 | 74 | 3.65 | 0.45 | 4.1 |
| 4/29/2015 | 0:00:18 | 59.52 | 54.52 | 60 | 3.06 | 0.46 | 3.3 |

## I20 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:56:56

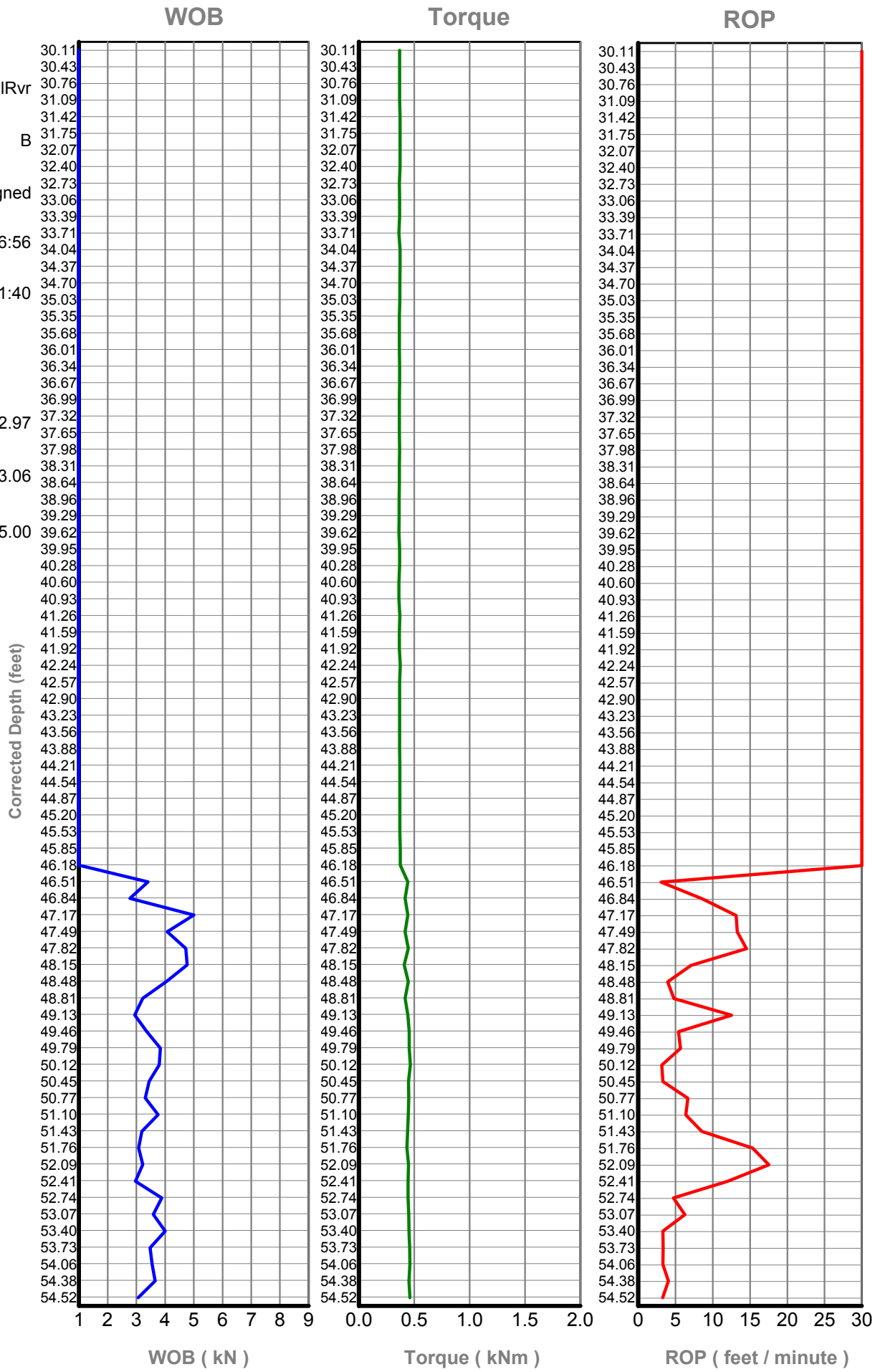
**End Date:**
4/29/2015 0:01:40

**Operator Note:**
'5 '5.5 5.1b Auto Complete'

**Northing:**
364,632.97

**Easting:**
247,993.06

**Tide (feet):**
5.00



## Hole: I21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:06:08 | 35.11 | 30.31 | 474 | 1.57 | 0.14 | 25.9 |
| 4/29/2015 0:06:09 | 35.43 | 30.63 | 474 | 1.57 | 0.14 | 25.9 |
| 4/29/2015 0:06:09 | 35.76 | 30.96 | 691 | 1.58 | 0.14 | 37.8 |
| 4/29/2015 0:06:09 | 36.09 | 31.29 | 691 | 1.58 | 0.14 | 37.8 |
| 4/29/2015 0:06:09 | 36.42 | 31.62 | 911 | 1.57 | 0.13 | 49.8 |
| 4/29/2015 0:06:10 | 36.75 | 31.95 | 1,099 | 1.57 | 0.13 | 60.1 |
| 4/29/2015 0:06:10 | 37.07 | 32.27 | 1,099 | 1.57 | 0.13 | 60.1 |
| 4/29/2015 0:06:10 | 37.40 | 32.60 | 1,105 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 0:06:11 | 37.73 | 32.93 | 1,095 | 1.58 | 0.13 | 59.9 |
| 4/29/2015 0:06:11 | 38.06 | 33.26 | 1,095 | 1.58 | 0.13 | 59.9 |
| 4/29/2015 0:06:11 | 38.39 | 33.59 | 1,101 | 1.58 | 0.13 | 60.2 |
| 4/29/2015 0:06:12 | 38.71 | 33.91 | 1,101 | 1.58 | 0.13 | 60.2 |
| 4/29/2015 0:06:12 | 39.04 | 34.24 | 1,096 | 1.59 | 0.13 | 59.9 |
| 4/29/2015 0:06:12 | 39.37 | 34.57 | 1,096 | 1.59 | 0.13 | 59.9 |
| 4/29/2015 0:06:13 | 39.70 | 34.90 | 1,096 | 1.59 | 0.13 | 59.9 |
| 4/29/2015 0:06:13 | 40.03 | 35.23 | 1,096 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:06:14 | 40.35 | 35.55 | 1,096 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:06:14 | 40.68 | 35.88 | 1,096 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:06:14 | 41.01 | 36.21 | 1,096 | 1.56 | 0.13 | 59.9 |
| 4/29/2015 0:06:15 | 41.34 | 36.54 | 1,096 | 1.56 | 0.13 | 59.9 |
| 4/29/2015 0:06:15 | 41.67 | 36.87 | 1,098 | 1.56 | 0.13 | 60.1 |
| 4/29/2015 0:06:15 | 41.99 | 37.19 | 1,089 | 1.57 | 0.13 | 59.6 |
| 4/29/2015 0:06:16 | 42.32 | 37.52 | 1,089 | 1.57 | 0.13 | 59.6 |
| 4/29/2015 0:06:16 | 42.65 | 37.85 | 1,089 | 1.57 | 0.13 | 59.5 |
| 4/29/2015 0:06:16 | 42.98 | 38.18 | 1,093 | 1.56 | 0.14 | 59.8 |
| 4/29/2015 0:06:17 | 43.31 | 38.51 | 1,093 | 1.56 | 0.14 | 59.8 |
| 4/29/2015 0:06:17 | 43.64 | 38.84 | 1,090 | 1.57 | 0.14 | 59.6 |
| 4/29/2015 0:06:17 | 43.96 | 39.16 | 1,090 | 1.57 | 0.14 | 59.6 |
| 4/29/2015 0:06:17 | 44.29 | 39.49 | 1,087 | 1.58 | 0.13 | 59.4 |
| 4/29/2015 0:06:18 | 44.62 | 39.82 | 1,093 | 1.58 | 0.13 | 59.7 |
| 4/29/2015 0:06:18 | 44.95 | 40.15 | 1,093 | 1.58 | 0.13 | 59.7 |
| 4/29/2015 0:06:18 | 45.28 | 40.48 | 1,093 | 1.58 | 0.13 | 59.8 |
| 4/29/2015 0:06:19 | 45.60 | 40.80 | 1,087 | 1.56 | 0.13 | 59.4 |
| 4/29/2015 0:06:19 | 45.93 | 41.13 | 1,087 | 1.56 | 0.13 | 59.4 |
| 4/29/2015 0:06:19 | 46.26 | 41.46 | 1,090 | 1.59 | 0.11 | 59.6 |
| 4/29/2015 0:06:20 | 46.59 | 41.79 | 1,095 | 1.59 | 0.13 | 59.9 |
| 4/29/2015 0:06:20 | 46.92 | 42.12 | 1,095 | 1.59 | 0.13 | 59.9 |
| 4/29/2015 0:06:20 | 47.24 | 42.44 | 1,096 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:06:21 | 47.57 | 42.77 | 1,096 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:06:21 | 47.90 | 43.10 | 1,093 | 1.59 | 0.13 | 59.7 |
| 4/29/2015 0:06:21 | 48.23 | 43.43 | 1,090 | 1.56 | 0.13 | 59.6 |
| 4/29/2015 0:06:22 | 48.56 | 43.76 | 1,090 | 1.56 | 0.13 | 59.6 |
| 4/29/2015 0:06:22 | 48.88 | 44.08 | 1,090 | 1.57 | 0.14 | 59.6 |
| 4/29/2015 0:06:22 | 49.21 | 44.41 | 1,087 | 1.57 | 0.14 | 59.4 |
| 4/29/2015 0:06:23 | 49.54 | 44.74 | 1,087 | 1.57 | 0.14 | 59.4 |
| 4/29/2015 0:06:23 | 49.87 | 45.07 | 1,087 | 1.57 | 0.13 | 59.4 |
| 4/29/2015 0:06:24 | 50.20 | 45.40 | 1,087 | 1.57 | 0.13 | 59.4 |
| 4/29/2015 0:06:30 | 50.53 | 45.73 | 49 | 1.68 | 1.11 | 2.7 |
| 4/29/2015 0:06:30 | 50.85 | 46.05 | 169 | 1.64 | 1.20 | 9.2 |
| 4/29/2015 0:06:31 | 51.18 | 46.38 | 303 | 1.67 | 1.14 | 16.6 |
| 4/29/2015 0:06:36 | 51.51 | 46.71 | 0 | 1.68 | 1.32 | 0.0 |
| 4/29/2015 0:06:42 | 51.84 | 47.04 | 0 | 1.65 | 0.98 | 0.0 |
| 4/29/2015 0:06:43 | 52.17 | 47.37 | 0 | 1.68 | 1.24 | 0.0 |
| 4/29/2015 0:06:45 | 52.49 | 47.69 | 201 | 1.66 | 1.30 | 11.0 |
| 4/29/2015 0:06:46 | 52.82 | 48.02 | 319 | 1.70 | 1.13 | 17.4 |
| 4/29/2015 0:06:46 | 53.15 | 48.35 | 355 | 1.66 | 1.11 | 19.4 |
| 4/29/2015 0:06:47 | 53.48 | 48.68 | 379 | 1.66 | 1.37 | 20.7 |
| 4/29/2015 0:06:56 | 53.81 | 49.01 | 78 | 1.67 | 1.35 | 4.2 |
| 4/29/2015 0:06:57 | 54.13 | 49.33 | 152 | 1.66 | 1.33 | 8.3 |
| 4/29/2015 0:06:58 | 54.46 | 49.66 | 216 | 1.68 | 1.23 | 11.8 |
| 4/29/2015 0:06:59 | 54.79 | 49.99 | 294 | 1.68 | 1.21 | 16.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:07:09 | 55.12 | 50.32 | 60 | 1.66 | 1.19 | 3.3 |
| 4/29/2015 | 0:07:10 | 55.45 | 50.65 | 125 | 1.68 | 1.16 | 6.8 |
| 4/29/2015 | 0:07:11 | 55.77 | 50.97 | 218 | 1.68 | 1.23 | 11.9 |
| 4/29/2015 | 0:07:14 | 56.10 | 51.30 | 83 | 1.63 | 1.26 | 4.5 |
| 4/29/2015 | 0:07:21 | 56.43 | 51.63 | 46 | 1.64 | 1.25 | 2.5 |
| 4/29/2015 | 0:07:28 | 56.76 | 51.96 | 52 | 1.65 | 1.23 | 2.9 |
| 4/29/2015 | 0:07:35 | 57.09 | 52.29 | 51 | 1.64 | 1.23 | 2.8 |
| 4/29/2015 | 0:07:40 | 57.34 | 52.54 | 55 | 1.62 | 1.17 | 3.0 |

## I21 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/29/2015 0:04:43

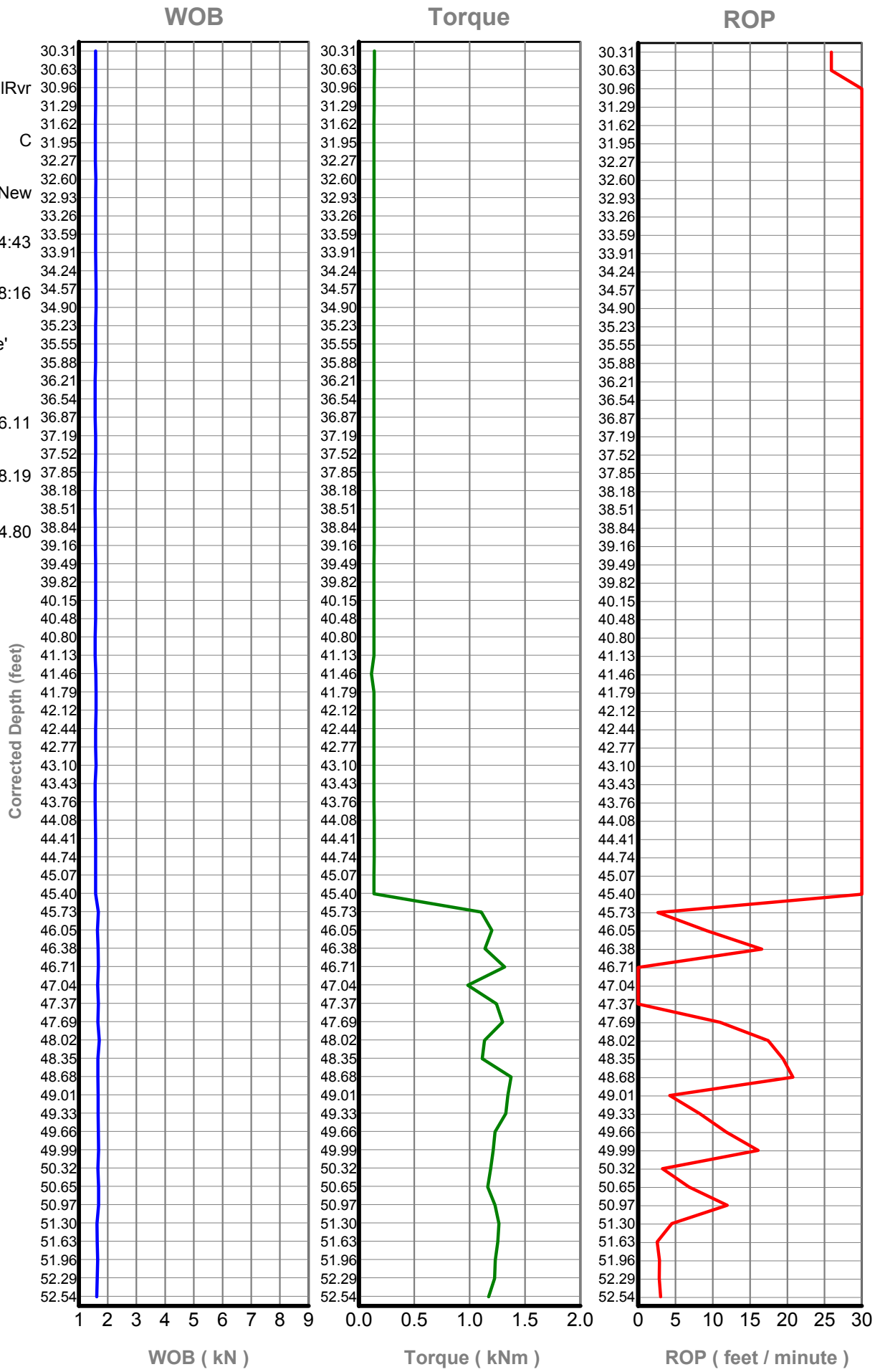
**End Date:**
4/29/2015 0:08:16

**Operator Note:**
'4.8 5.0 c Auto Complete'

**Northing:**
364,676.11

**Easting:**
248,048.19

**Tide (feet):**
4.80



## Hole: I22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:20:39 | 31.50 | 30.30 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 16:20:39 | 31.82 | 30.62 | 1,126 | 0.29 | 0.31 | 61.6 |
| 4/27/2015 16:20:40 | 32.15 | 30.95 | 1,126 | 0.29 | 0.31 | 61.6 |
| 4/27/2015 16:20:40 | 32.48 | 31.28 | 1,111 | 0.29 | 0.32 | 60.8 |
| 4/27/2015 16:20:40 | 32.81 | 31.61 | 1,111 | 0.29 | 0.32 | 60.8 |
| 4/27/2015 16:20:40 | 33.14 | 31.94 | 1,097 | 0.28 | 0.31 | 60.0 |
| 4/27/2015 16:20:41 | 33.46 | 32.26 | 1,097 | 0.27 | 0.31 | 60.0 |
| 4/27/2015 16:20:41 | 33.79 | 32.59 | 1,097 | 0.27 | 0.31 | 60.0 |
| 4/27/2015 16:20:41 | 34.12 | 32.92 | 1,105 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 16:20:42 | 34.45 | 33.25 | 1,105 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 16:20:43 | 34.78 | 33.58 | 1,105 | 0.27 | 0.32 | 60.4 |
| 4/27/2015 16:20:42 | 35.11 | 33.91 | 1,082 | 0.27 | 0.31 | 59.2 |
| 4/27/2015 16:20:43 | 35.43 | 34.23 | 1,082 | 0.27 | 0.31 | 59.2 |
| 4/27/2015 16:20:43 | 35.76 | 34.56 | 1,082 | 0.27 | 0.31 | 59.2 |
| 4/27/2015 16:20:43 | 36.09 | 34.89 | 1,091 | 0.27 | 0.31 | 59.6 |
| 4/27/2015 16:20:44 | 36.42 | 35.22 | 1,091 | 0.27 | 0.31 | 59.6 |
| 4/27/2015 16:20:44 | 36.75 | 35.55 | 1,101 | 0.28 | 0.31 | 60.2 |
| 4/27/2015 16:20:45 | 37.07 | 35.87 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 16:20:45 | 37.40 | 36.20 | 1,099 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 16:20:45 | 37.73 | 36.53 | 1,097 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 16:20:46 | 38.06 | 36.86 | 1,097 | 0.27 | 0.32 | 60.0 |
| 4/27/2015 16:20:46 | 38.39 | 37.19 | 1,102 | 0.27 | 0.31 | 60.3 |
| 4/27/2015 16:20:46 | 38.71 | 37.51 | 1,081 | 0.27 | 0.32 | 59.1 |
| 4/27/2015 16:20:46 | 39.04 | 37.84 | 1,081 | 0.27 | 0.32 | 59.1 |
| 4/27/2015 16:20:47 | 39.37 | 38.17 | 1,081 | 0.27 | 0.32 | 59.1 |
| 4/27/2015 16:20:47 | 39.70 | 38.50 | 1,081 | 0.27 | 0.32 | 59.1 |
| 4/27/2015 16:20:47 | 40.03 | 38.83 | 1,076 | 0.27 | 0.31 | 58.9 |
| 4/27/2015 16:20:48 | 40.35 | 39.15 | 1,076 | 0.28 | 0.31 | 58.9 |
| 4/27/2015 16:20:48 | 40.68 | 39.48 | 1,076 | 0.28 | 0.31 | 58.9 |
| 4/27/2015 16:20:48 | 41.01 | 39.81 | 1,098 | 0.27 | 0.31 | 60.1 |
| 4/27/2015 16:20:49 | 41.34 | 40.14 | 1,112 | 0.24 | 0.31 | 60.8 |
| 4/27/2015 16:20:49 | 41.67 | 40.47 | 1,112 | 0.24 | 0.31 | 60.8 |
| 4/27/2015 16:20:49 | 41.99 | 40.79 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/27/2015 16:20:50 | 42.32 | 41.12 | 1,102 | 0.28 | 0.31 | 60.3 |
| 4/27/2015 16:20:50 | 42.65 | 41.45 | 1,102 | 0.29 | 0.32 | 60.3 |
| 4/27/2015 16:20:50 | 42.98 | 41.78 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 16:20:51 | 43.31 | 42.11 | 1,119 | 0.28 | 0.31 | 61.2 |
| 4/27/2015 16:20:51 | 43.64 | 42.44 | 1,095 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 16:20:51 | 43.96 | 42.76 | 1,095 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 16:20:52 | 44.29 | 43.09 | 1,095 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 16:20:52 | 44.62 | 43.42 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/27/2015 16:20:52 | 44.95 | 43.75 | 1,099 | 0.28 | 0.31 | 60.1 |
| 4/27/2015 16:20:52 | 45.28 | 44.08 | 1,091 | 0.27 | 0.31 | 59.7 |
| 4/27/2015 16:20:53 | 45.60 | 44.40 | 1,080 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 16:20:53 | 45.93 | 44.73 | 1,080 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 16:20:53 | 46.26 | 45.06 | 1,077 | 0.28 | 0.31 | 58.9 |
| 4/27/2015 16:20:54 | 46.59 | 45.39 | 1,094 | 0.27 | 0.34 | 59.8 |
| 4/27/2015 16:20:54 | 46.92 | 45.72 | 1,094 | 0.27 | 0.34 | 59.8 |
| 4/27/2015 16:20:58 | 47.24 | 46.04 | 0 | 5.14 | 0.39 | 0.0 |
| 4/27/2015 16:21:00 | 47.57 | 46.37 | 128 | 4.25 | 0.37 | 7.0 |
| 4/27/2015 16:21:02 | 47.90 | 46.70 | 211 | 4.28 | 0.38 | 11.6 |
| 4/27/2015 16:21:17 | 48.23 | 47.03 | 0 | 3.48 | 0.37 | 0.0 |
| 4/27/2015 16:21:18 | 48.56 | 47.36 | 149 | 2.76 | 0.35 | 8.1 |
| 4/27/2015 16:21:38 | 48.88 | 47.68 | 0 | 2.36 | 0.34 | 0.0 |
| 4/27/2015 16:21:38 | 49.21 | 48.01 | 86 | 2.37 | 0.36 | 4.7 |
| 4/27/2015 16:21:39 | 49.54 | 48.34 | 280 | 2.93 | 0.37 | 15.3 |
| 4/27/2015 16:21:40 | 49.87 | 48.67 | 363 | 3.88 | 0.39 | 19.9 |
| 4/27/2015 16:21:47 | 50.20 | 49.00 | 85 | 3.08 | 0.40 | 4.6 |
| 4/27/2015 16:22:10 | 50.53 | 49.33 | 41 | 2.89 | 0.40 | 2.2 |
| 4/27/2015 16:22:24 | 50.85 | 49.65 | 81 | 2.74 | 0.40 | 4.4 |
| 4/27/2015 16:22:26 | 51.18 | 49.98 | 121 | 2.93 | 0.40 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:22:30 | 51.51 | 50.31 | 98 | 2.93 | 0.40 | 5.4 |
| 4/27/2015 | 16:22:34 | 51.84 | 50.64 | 110 | 3.51 | 0.39 | 6.0 |
| 4/27/2015 | 16:22:36 | 52.17 | 50.97 | 126 | 3.10 | 0.40 | 6.9 |
| 4/27/2015 | 16:22:40 | 52.49 | 51.29 | 95 | 2.66 | 0.40 | 5.2 |
| 4/27/2015 | 16:22:44 | 52.82 | 51.62 | 104 | 2.86 | 0.40 | 5.7 |
| 4/27/2015 | 16:22:46 | 53.15 | 51.95 | 135 | 3.07 | 0.40 | 7.4 |
| 4/27/2015 | 16:22:50 | 53.48 | 52.28 | 91 | 3.22 | 0.41 | 5.0 |
| 4/27/2015 | 16:22:54 | 53.81 | 52.61 | 84 | 3.11 | 0.41 | 4.6 |
| 4/27/2015 | 16:22:58 | 54.13 | 52.93 | 90 | 3.07 | 0.41 | 4.9 |
| 4/27/2015 | 16:23:12 | 54.46 | 53.26 | 0 | 3.42 | 0.38 | 0.0 |
| 4/27/2015 | 16:23:13 | 54.79 | 53.59 | 124 | 3.43 | 0.37 | 6.8 |
| 4/27/2015 | 16:23:14 | 55.12 | 53.92 | 249 | 2.85 | 0.38 | 13.6 |
| 4/27/2015 | 16:23:15 | 55.45 | 54.25 | 304 | 4.51 | 0.39 | 16.6 |
| 4/27/2015 | 16:23:17 | 55.77 | 54.57 | 226 | 4.78 | 0.38 | 12.4 |
| 4/27/2015 | 16:23:19 | 55.89 | 54.69 | 81 | 4.78 | 0.41 | 4.4 |

## I22 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:19:08

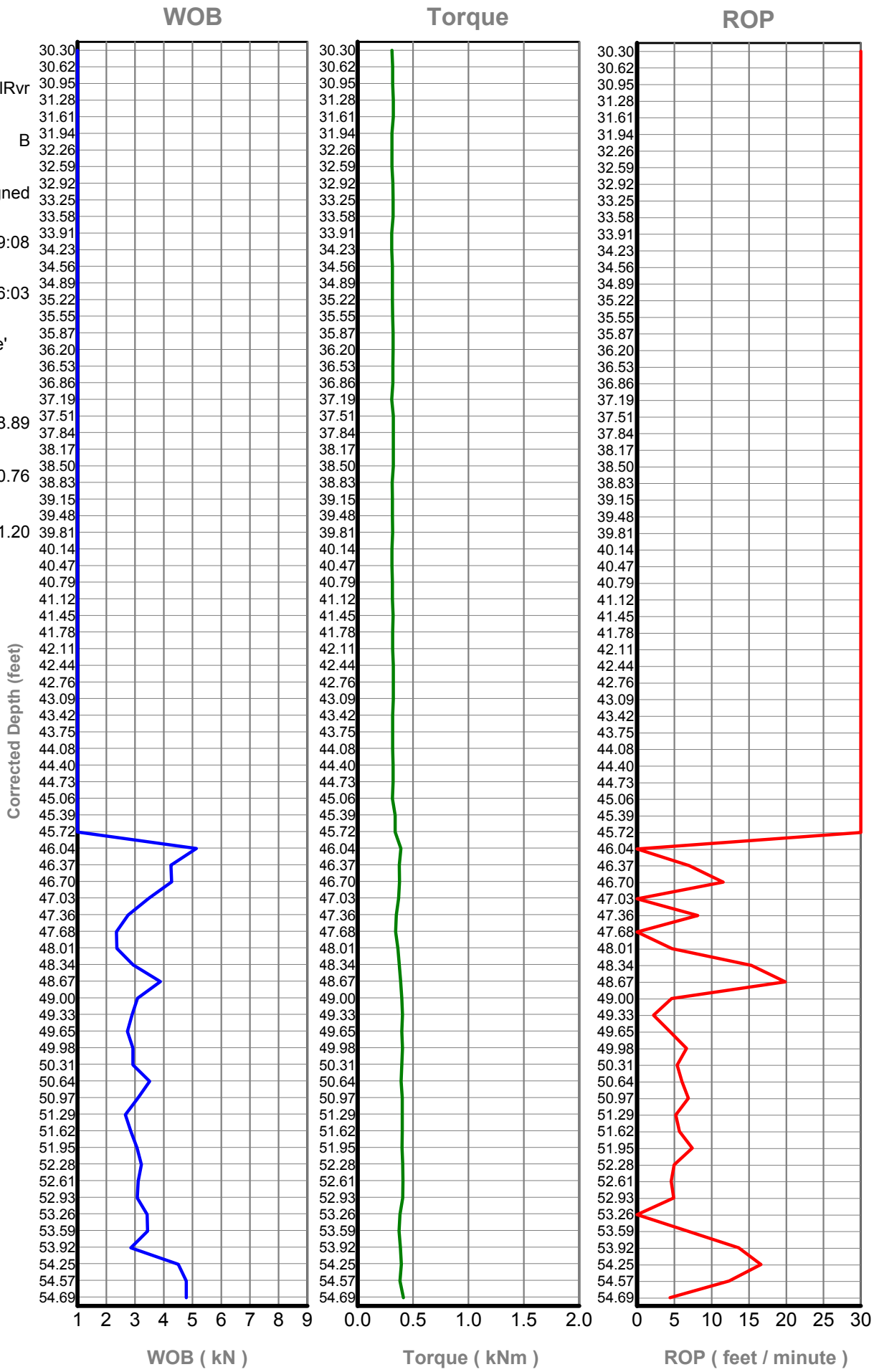
**End Date:**
4/27/2015 16:36:03

**Operator Note:**
'1.2 0.9 b Auto Complete'

**Northing:**
364,778.89

**Easting:**
248,180.76

**Tide (feet):**
1.20



## Hole: I23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:20:08 | 31.50 | 30.30 | 1,120 | 1.75 | 0.28 | 61.3 |
| 4/27/2015 16:20:09 | 31.82 | 30.62 | 1,120 | 1.75 | 0.28 | 61.3 |
| 4/27/2015 16:20:09 | 32.15 | 30.95 | 1,130 | 1.59 | 0.28 | 61.8 |
| 4/27/2015 16:20:10 | 32.48 | 31.28 | 1,125 | 1.60 | 0.28 | 61.5 |
| 4/27/2015 16:20:10 | 32.81 | 31.61 | 1,125 | 1.60 | 0.28 | 61.5 |
| 4/27/2015 16:20:10 | 33.14 | 31.94 | 1,118 | 1.61 | 0.29 | 61.1 |
| 4/27/2015 16:20:11 | 33.46 | 32.26 | 1,118 | 1.61 | 0.29 | 61.1 |
| 4/27/2015 16:20:11 | 33.79 | 32.59 | 1,115 | 1.60 | 0.28 | 61.0 |
| 4/27/2015 16:20:11 | 34.12 | 32.92 | 1,125 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:20:12 | 34.45 | 33.25 | 1,125 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:20:12 | 34.78 | 33.58 | 1,119 | 1.57 | 0.28 | 61.2 |
| 4/27/2015 16:20:12 | 35.11 | 33.91 | 1,120 | 1.61 | 0.28 | 61.2 |
| 4/27/2015 16:20:13 | 35.43 | 34.23 | 1,120 | 1.61 | 0.28 | 61.2 |
| 4/27/2015 16:20:13 | 35.76 | 34.56 | 1,113 | 1.57 | 0.28 | 60.9 |
| 4/27/2015 16:20:13 | 36.09 | 34.89 | 1,113 | 1.57 | 0.28 | 60.9 |
| 4/27/2015 16:20:13 | 36.42 | 35.22 | 1,126 | 1.60 | 0.28 | 61.6 |
| 4/27/2015 16:20:14 | 36.75 | 35.55 | 1,116 | 1.58 | 0.29 | 61.0 |
| 4/27/2015 16:20:14 | 37.07 | 35.87 | 1,116 | 1.58 | 0.29 | 61.0 |
| 4/27/2015 16:20:14 | 37.40 | 36.20 | 1,116 | 1.59 | 0.29 | 61.0 |
| 4/27/2015 16:20:15 | 37.73 | 36.53 | 1,116 | 1.59 | 0.29 | 61.0 |
| 4/27/2015 16:20:15 | 38.06 | 36.86 | 1,112 | 1.62 | 0.29 | 60.8 |
| 4/27/2015 16:20:15 | 38.39 | 37.19 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:20:16 | 38.71 | 37.51 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:20:16 | 39.04 | 37.84 | 1,113 | 1.62 | 0.29 | 60.9 |
| 4/27/2015 16:20:16 | 39.37 | 38.17 | 1,113 | 1.60 | 0.28 | 60.9 |
| 4/27/2015 16:20:17 | 39.70 | 38.50 | 1,113 | 1.60 | 0.28 | 60.9 |
| 4/27/2015 16:20:17 | 40.03 | 38.83 | 1,110 | 1.61 | 0.29 | 60.7 |
| 4/27/2015 16:20:17 | 40.35 | 39.15 | 1,110 | 1.61 | 0.29 | 60.7 |
| 4/27/2015 16:20:17 | 40.68 | 39.48 | 1,113 | 1.58 | 0.28 | 60.9 |
| 4/27/2015 16:20:18 | 41.01 | 39.81 | 1,120 | 1.61 | 0.29 | 61.2 |
| 4/27/2015 16:20:18 | 41.34 | 40.14 | 1,120 | 1.61 | 0.29 | 61.2 |
| 4/27/2015 16:20:18 | 41.67 | 40.47 | 1,113 | 1.59 | 0.29 | 60.9 |
| 4/27/2015 16:20:19 | 41.99 | 40.79 | 1,113 | 1.59 | 0.29 | 60.9 |
| 4/27/2015 16:20:19 | 42.32 | 41.12 | 1,110 | 1.61 | 0.29 | 60.7 |
| 4/27/2015 16:20:20 | 42.65 | 41.45 | 1,113 | 1.60 | 0.29 | 60.9 |
| 4/27/2015 16:20:20 | 42.98 | 41.78 | 1,113 | 1.60 | 0.29 | 60.9 |
| 4/27/2015 16:20:20 | 43.31 | 42.11 | 1,107 | 1.58 | 0.28 | 60.5 |
| 4/27/2015 16:20:21 | 43.64 | 42.44 | 1,100 | 1.60 | 0.29 | 60.2 |
| 4/27/2015 16:20:21 | 43.96 | 42.76 | 1,100 | 1.60 | 0.29 | 60.2 |
| 4/27/2015 16:20:21 | 44.29 | 43.09 | 1,104 | 1.62 | 0.29 | 60.4 |
| 4/27/2015 16:20:22 | 44.62 | 43.42 | 1,104 | 1.62 | 0.29 | 60.4 |
| 4/27/2015 16:20:40 | 44.95 | 43.75 | 0 | 1.65 | 1.29 | 0.0 |
| 4/27/2015 16:20:42 | 45.28 | 44.08 | 70 | 1.74 | 0.98 | 3.9 |
| 4/27/2015 16:20:42 | 45.60 | 44.40 | 70 | 1.68 | 1.03 | 3.9 |
| 4/27/2015 16:20:43 | 45.93 | 44.73 | 222 | 1.69 | 1.08 | 12.2 |
| 4/27/2015 16:20:43 | 46.26 | 45.06 | 317 | 1.72 | 1.15 | 17.3 |
| 4/27/2015 16:20:44 | 46.59 | 45.39 | 410 | 1.71 | 1.12 | 22.4 |
| 4/27/2015 16:20:44 | 46.92 | 45.72 | 509 | 1.68 | 1.00 | 27.8 |
| 4/27/2015 16:21:39 | 47.24 | 46.04 | 0 | 1.64 | 1.14 | 0.0 |
| 4/27/2015 16:22:06 | 47.57 | 46.37 | 0 | 1.68 | 1.28 | 0.0 |
| 4/27/2015 16:22:07 | 47.90 | 46.70 | 53 | 1.64 | 1.13 | 2.9 |
| 4/27/2015 16:22:08 | 48.23 | 47.03 | 198 | 1.68 | 1.07 | 10.8 |
| 4/27/2015 16:22:09 | 48.56 | 47.36 | 273 | 1.66 | 1.16 | 14.9 |
| 4/27/2015 16:22:09 | 48.88 | 47.68 | 273 | 1.66 | 1.13 | 14.9 |
| 4/27/2015 16:22:10 | 49.21 | 48.01 | 393 | 1.68 | 1.16 | 21.5 |
| 4/27/2015 16:23:08 | 49.54 | 48.34 | 0 | 1.67 | 1.14 | 0.0 |
| 4/27/2015 16:25:12 | 49.87 | 48.67 | 0 | 1.65 | 1.13 | 0.0 |
| 4/27/2015 16:25:14 | 50.20 | 49.00 | 163 | 1.63 | 1.17 | 8.9 |
| 4/27/2015 16:25:22 | 50.53 | 49.33 | 12 | 1.66 | 1.15 | 0.6 |
| 4/27/2015 16:25:28 | 50.85 | 49.65 | 55 | 1.64 | 1.47 | 3.0 |
| 4/27/2015 16:26:22 | 51.18 | 49.98 | 106 | 1.65 | 1.19 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:26:26 | 51.51 | 50.31 | 101 | 1.68 | 1.20 | 5.5 |
| 4/27/2015 | 16:26:27 | 51.84 | 50.64 | 168 | 1.66 | 1.16 | 9.2 |
| 4/27/2015 | 16:26:28 | 52.17 | 50.97 | 197 | 1.67 | 1.10 | 10.8 |
| 4/27/2015 | 16:26:29 | 52.49 | 51.29 | 318 | 1.66 | 1.17 | 17.4 |
| 4/27/2015 | 16:26:30 | 52.82 | 51.62 | 367 | 1.68 | 1.17 | 20.0 |
| 4/27/2015 | 16:26:54 | 53.15 | 51.95 | 6 | 1.66 | 1.22 | 0.3 |
| 4/27/2015 | 16:26:58 | 53.48 | 52.28 | 87 | 1.65 | 1.12 | 4.7 |
| 4/27/2015 | 16:27:00 | 53.81 | 52.61 | 136 | 1.66 | 1.17 | 7.4 |
| 4/27/2015 | 16:27:04 | 54.13 | 52.93 | 93 | 1.70 | 1.29 | 5.1 |
| 4/27/2015 | 16:27:07 | 54.46 | 53.26 | 122 | 1.66 | 1.27 | 6.7 |
| 4/27/2015 | 16:27:09 | 54.79 | 53.59 | 154 | 1.65 | 1.24 | 8.4 |
| 4/27/2015 | 16:27:28 | 55.12 | 53.92 | 0 | 1.63 | 1.30 | 0.0 |
| 4/27/2015 | 16:27:30 | 55.45 | 54.25 | 41 | 1.66 | 1.13 | 2.2 |
| 4/27/2015 | 16:27:31 | 55.77 | 54.57 | 207 | 1.66 | 1.06 | 11.3 |
| 4/27/2015 | 16:27:31 | 56.10 | 54.90 | 290 | 1.68 | 1.03 | 15.8 |
| 4/27/2015 | 16:27:32 | 56.38 | 55.18 | 328 | 1.65 | 1.22 | 18.0 |

## I23 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:19:00

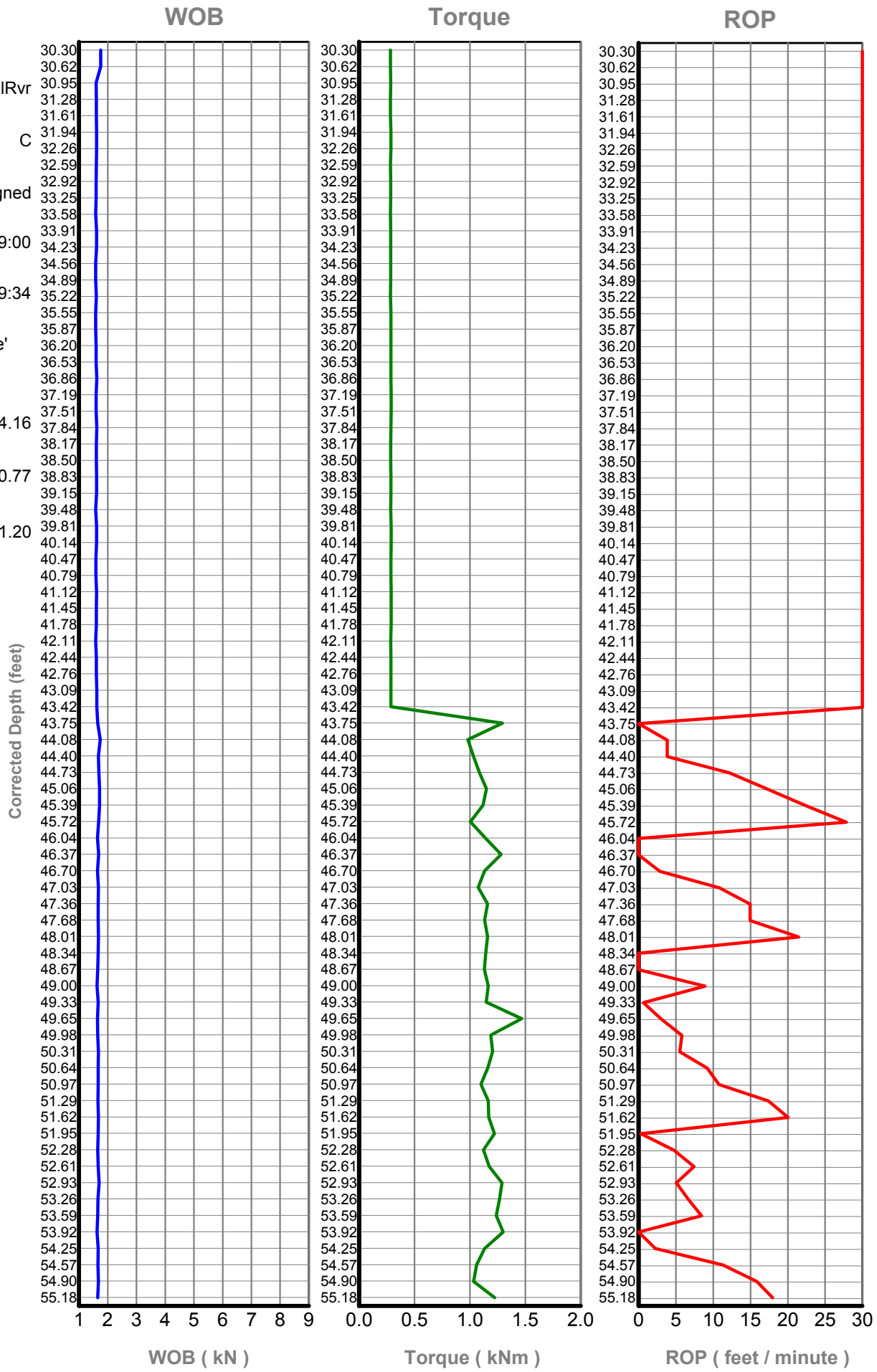
**End Date:**
4/27/2015 16:29:34

**Operator Note:**
'1.2 0.9 c Auto Complete'

**Northing:**
364,824.16

**Easting:**
248,240.77

**Tide (feet):**
1.20



## Hole: I24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:20:33 | 31.50 | 30.30 | 703 | 1.12 | 0.22 | 38.4 |
| 4/27/2015 16:20:33 | 31.82 | 30.62 | 697 | 1.11 | 0.22 | 38.1 |
| 4/27/2015 16:20:34 | 32.15 | 30.95 | 687 | 1.09 | 0.20 | 37.6 |
| 4/27/2015 16:20:34 | 32.48 | 31.28 | 691 | 1.10 | 0.20 | 37.8 |
| 4/27/2015 16:20:35 | 32.81 | 31.61 | 685 | 1.10 | 0.20 | 37.5 |
| 4/27/2015 16:20:35 | 33.14 | 31.94 | 685 | 1.09 | 0.20 | 37.5 |
| 4/27/2015 16:20:36 | 33.46 | 32.26 | 688 | 1.09 | 0.20 | 37.6 |
| 4/27/2015 16:20:36 | 33.79 | 32.59 | 701 | 1.09 | 0.20 | 38.3 |
| 4/27/2015 16:20:37 | 34.12 | 32.92 | 694 | 1.09 | 0.20 | 37.9 |
| 4/27/2015 16:20:37 | 34.45 | 33.25 | 695 | 1.09 | 0.20 | 38.0 |
| 4/27/2015 16:20:38 | 34.78 | 33.58 | 703 | 1.09 | 0.20 | 38.4 |
| 4/27/2015 16:20:38 | 35.11 | 33.91 | 708 | 1.09 | 0.20 | 38.7 |
| 4/27/2015 16:20:39 | 35.43 | 34.23 | 705 | 1.08 | 0.20 | 38.6 |
| 4/27/2015 16:20:39 | 35.76 | 34.56 | 711 | 1.10 | 0.20 | 38.9 |
| 4/27/2015 16:20:40 | 36.09 | 34.89 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:41 | 36.42 | 35.22 | 713 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:41 | 36.75 | 35.55 | 714 | 1.11 | 0.20 | 39.0 |
| 4/27/2015 16:20:42 | 37.07 | 35.87 | 714 | 1.10 | 0.20 | 39.0 |
| 4/27/2015 16:20:42 | 37.40 | 36.20 | 714 | 1.10 | 0.20 | 39.0 |
| 4/27/2015 16:20:42 | 37.73 | 36.53 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:43 | 38.06 | 36.86 | 706 | 1.10 | 0.20 | 38.6 |
| 4/27/2015 16:20:43 | 38.39 | 37.19 | 706 | 1.09 | 0.20 | 38.6 |
| 4/27/2015 16:20:44 | 38.71 | 37.51 | 713 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:44 | 39.04 | 37.84 | 708 | 1.10 | 0.20 | 38.7 |
| 4/27/2015 16:20:45 | 39.37 | 38.17 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:45 | 39.70 | 38.50 | 714 | 1.08 | 0.20 | 39.1 |
| 4/27/2015 16:20:46 | 40.03 | 38.83 | 723 | 1.11 | 0.20 | 39.6 |
| 4/27/2015 16:20:46 | 40.35 | 39.15 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:47 | 40.68 | 39.48 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:47 | 41.01 | 39.81 | 708 | 1.11 | 0.21 | 38.7 |
| 4/27/2015 16:20:48 | 41.34 | 40.14 | 708 | 1.11 | 0.20 | 38.7 |
| 4/27/2015 16:20:48 | 41.67 | 40.47 | 704 | 1.09 | 0.20 | 38.5 |
| 4/27/2015 16:20:49 | 41.99 | 40.79 | 711 | 1.11 | 0.21 | 38.9 |
| 4/27/2015 16:20:49 | 42.32 | 41.12 | 711 | 1.10 | 0.20 | 38.9 |
| 4/27/2015 16:20:50 | 42.65 | 41.45 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 16:20:51 | 42.98 | 41.78 | 714 | 1.11 | 0.20 | 39.0 |
| 4/27/2015 16:20:51 | 43.31 | 42.11 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 16:20:52 | 43.64 | 42.44 | 714 | 1.13 | 0.23 | 39.0 |
| 4/27/2015 16:20:52 | 43.96 | 42.76 | 714 | 1.13 | 0.21 | 39.0 |
| 4/27/2015 16:20:53 | 44.29 | 43.09 | 704 | 1.09 | 0.20 | 38.5 |
| 4/27/2015 16:20:53 | 44.62 | 43.42 | 711 | 1.11 | 0.19 | 38.9 |
| 4/27/2015 16:20:54 | 44.95 | 43.75 | 711 | 1.10 | 0.20 | 38.9 |
| 4/27/2015 16:20:54 | 45.28 | 44.08 | 711 | 1.13 | 0.23 | 38.9 |
| 4/27/2015 16:20:55 | 45.60 | 44.40 | 697 | 1.12 | 0.20 | 38.1 |
| 4/27/2015 16:20:55 | 45.93 | 44.73 | 697 | 1.15 | 0.19 | 38.1 |
| 4/27/2015 16:21:10 | 46.26 | 45.06 | 91 | 1.12 | 1.15 | 5.0 |
| 4/27/2015 16:21:12 | 46.59 | 45.39 | 259 | 1.15 | 1.21 | 14.2 |
| 4/27/2015 16:21:13 | 46.92 | 45.72 | 295 | 1.13 | 1.05 | 16.1 |
| 4/27/2015 16:21:14 | 47.24 | 46.04 | 321 | 1.12 | 1.04 | 17.5 |
| 4/27/2015 16:21:14 | 47.57 | 46.37 | 341 | 1.11 | 0.92 | 18.6 |
| 4/27/2015 16:21:15 | 47.90 | 46.70 | 382 | 1.12 | 1.09 | 20.9 |
| 4/27/2015 16:21:16 | 48.23 | 47.03 | 399 | 1.14 | 1.12 | 21.8 |
| 4/27/2015 16:21:17 | 48.56 | 47.36 | 376 | 1.13 | 1.04 | 20.5 |
| 4/27/2015 16:21:18 | 48.88 | 47.68 | 384 | 1.12 | 0.84 | 21.0 |
| 4/27/2015 16:21:19 | 49.21 | 48.01 | 416 | 1.13 | 0.94 | 22.8 |
| 4/27/2015 16:21:19 | 49.54 | 48.34 | 433 | 1.13 | 1.04 | 23.7 |
| 4/27/2015 16:21:20 | 49.87 | 48.67 | 434 | 1.13 | 0.95 | 23.7 |
| 4/27/2015 16:21:22 | 50.20 | 49.00 | 419 | 1.16 | 1.03 | 22.9 |
| 4/27/2015 16:21:23 | 50.53 | 49.33 | 387 | 1.13 | 0.98 | 21.2 |
| 4/27/2015 16:21:23 | 50.85 | 49.65 | 383 | 1.11 | 0.87 | 21.0 |
| 4/27/2015 16:21:25 | 51.18 | 49.98 | 347 | 1.14 | 0.93 | 19.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:21:26 | 51.51 | 50.31 | 271 | 1.17 | 0.98 | 14.8 |
| 4/27/2015 | 16:21:28 | 51.84 | 50.64 | 168 | 1.16 | 1.01 | 9.2 |
| 4/27/2015 | 16:21:30 | 52.17 | 50.97 | 155 | 1.17 | 1.03 | 8.5 |
| 4/27/2015 | 16:21:36 | 52.49 | 51.29 | 58 | 1.00 | 0.97 | 3.2 |
| 4/27/2015 | 16:21:39 | 52.82 | 51.62 | 103 | 1.10 | 0.88 | 5.7 |
| 4/27/2015 | 16:21:41 | 53.15 | 51.95 | 179 | 1.00 | 0.90 | 9.8 |
| 4/27/2015 | 16:21:43 | 53.48 | 52.28 | 211 | 1.07 | 0.90 | 11.5 |
| 4/27/2015 | 16:21:44 | 53.81 | 52.61 | 207 | 1.05 | 0.89 | 11.3 |
| 4/27/2015 | 16:21:46 | 54.13 | 52.93 | 191 | 1.07 | 0.91 | 10.4 |
| 4/27/2015 | 16:21:49 | 54.46 | 53.26 | 150 | 1.09 | 0.85 | 8.2 |
| 4/27/2015 | 16:21:51 | 54.79 | 53.59 | 131 | 1.11 | 0.94 | 7.2 |
| 4/27/2015 | 16:21:54 | 55.12 | 53.92 | 148 | 1.06 | 1.00 | 8.1 |
| 4/27/2015 | 16:21:58 | 55.45 | 54.25 | 95 | 1.04 | 0.94 | 5.2 |
| 4/27/2015 | 16:22:01 | 55.77 | 54.57 | 121 | 1.03 | 0.98 | 6.6 |
| 4/27/2015 | 16:22:02 | 55.91 | 54.71 | 129 | 0.69 | 1.00 | 7.1 |

## I24 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:18:55

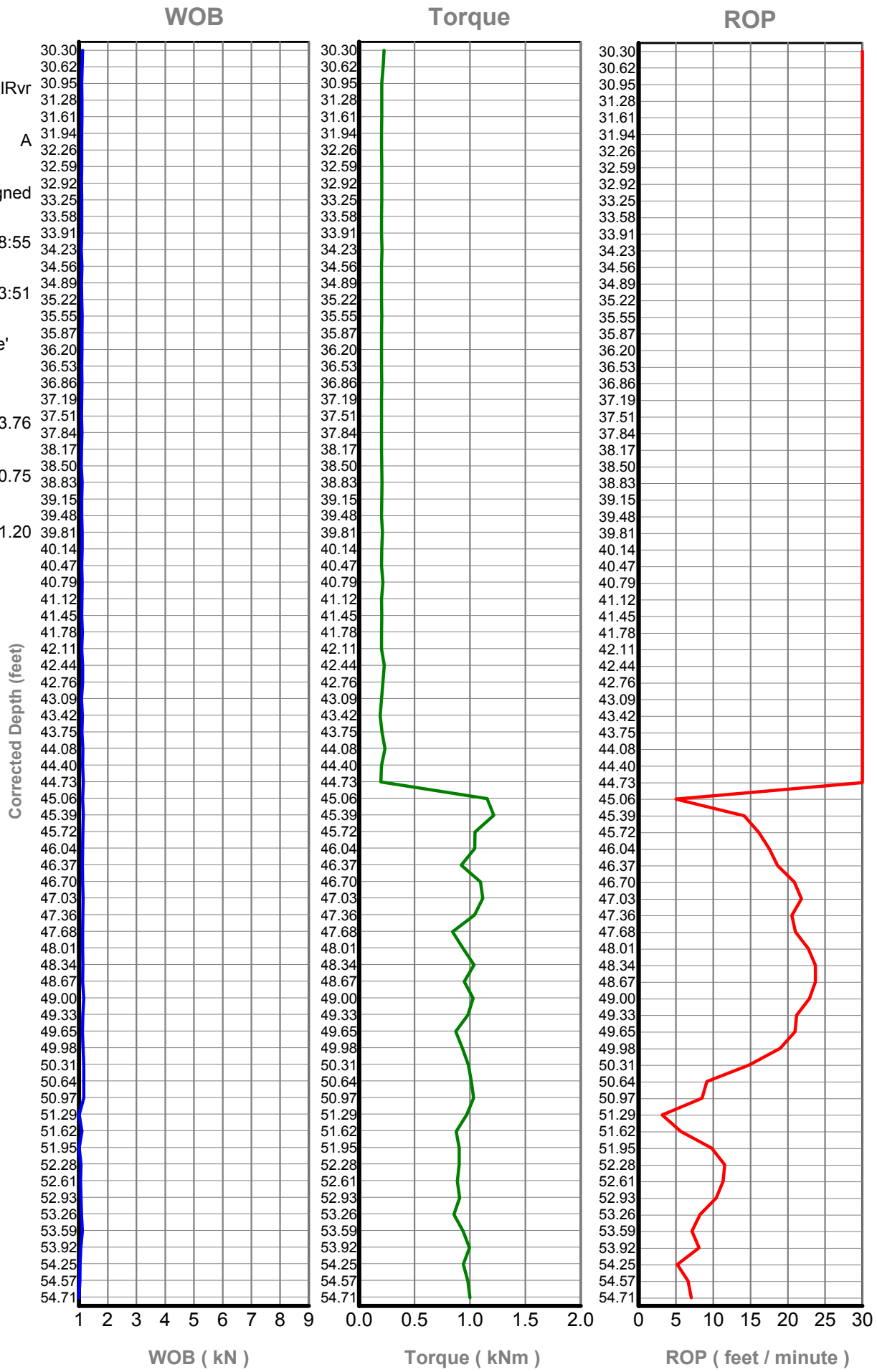
**End Date:**
4/27/2015 16:23:51

**Operator Note:**
'1.2 0.9 a Auto Complete'

**Northing:**
364,733.76

**Easting:**
248,120.75

**Tide (feet):**
1.20



## Hole: I25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:42:58 | 31.50 | 30.30 | 767 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:42:58 | 31.82 | 30.62 | 767 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:42:58 | 32.15 | 30.95 | 764 | 1.09 | 0.19 | 41.8 |
| 4/29/2015 3:42:59 | 32.48 | 31.28 | 764 | 1.09 | 0.19 | 41.8 |
| 4/29/2015 3:43:00 | 32.81 | 31.61 | 767 | 1.09 | 0.19 | 42.0 |
| 4/29/2015 3:43:00 | 33.14 | 31.94 | 760 | 1.09 | 0.19 | 41.5 |
| 4/29/2015 3:43:01 | 33.46 | 32.26 | 752 | 1.09 | 0.19 | 41.1 |
| 4/29/2015 3:43:01 | 33.79 | 32.59 | 752 | 1.07 | 0.19 | 41.1 |
| 4/29/2015 3:43:02 | 34.12 | 32.92 | 762 | 1.09 | 0.19 | 41.7 |
| 4/29/2015 3:43:02 | 34.45 | 33.25 | 762 | 1.09 | 0.19 | 41.7 |
| 4/29/2015 3:43:03 | 34.78 | 33.58 | 762 | 1.09 | 0.19 | 41.7 |
| 4/29/2015 3:43:03 | 35.11 | 33.91 | 760 | 1.08 | 0.19 | 41.6 |
| 4/29/2015 3:43:03 | 35.43 | 34.23 | 760 | 1.09 | 0.19 | 41.6 |
| 4/29/2015 3:43:04 | 35.76 | 34.56 | 759 | 1.09 | 0.19 | 41.5 |
| 4/29/2015 3:43:04 | 36.09 | 34.89 | 784 | 1.10 | 0.19 | 42.9 |
| 4/29/2015 3:43:05 | 36.42 | 35.22 | 776 | 1.09 | 0.19 | 42.5 |
| 4/29/2015 3:43:05 | 36.75 | 35.55 | 765 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:06 | 37.07 | 35.87 | 767 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:06 | 37.40 | 36.20 | 767 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:06 | 37.73 | 36.53 | 767 | 1.08 | 0.19 | 41.9 |
| 4/29/2015 3:43:07 | 38.06 | 36.86 | 769 | 1.09 | 0.19 | 42.1 |
| 4/29/2015 3:43:07 | 38.39 | 37.19 | 767 | 1.06 | 0.19 | 42.0 |
| 4/29/2015 3:43:08 | 38.71 | 37.51 | 754 | 1.08 | 0.19 | 41.3 |
| 4/29/2015 3:43:09 | 39.04 | 37.84 | 754 | 1.08 | 0.19 | 41.3 |
| 4/29/2015 3:43:09 | 39.37 | 38.17 | 768 | 1.09 | 0.19 | 42.0 |
| 4/29/2015 3:43:10 | 39.70 | 38.50 | 767 | 1.08 | 0.19 | 41.9 |
| 4/29/2015 3:43:10 | 40.03 | 38.83 | 767 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:11 | 40.35 | 39.15 | 756 | 1.10 | 0.19 | 41.3 |
| 4/29/2015 3:43:11 | 40.68 | 39.48 | 756 | 1.10 | 0.19 | 41.3 |
| 4/29/2015 3:43:11 | 41.01 | 39.81 | 756 | 1.09 | 0.19 | 41.3 |
| 4/29/2015 3:43:12 | 41.34 | 40.14 | 760 | 1.09 | 0.19 | 41.6 |
| 4/29/2015 3:43:12 | 41.67 | 40.47 | 776 | 1.07 | 0.19 | 42.5 |
| 4/29/2015 3:43:13 | 41.99 | 40.79 | 753 | 1.09 | 0.19 | 41.2 |
| 4/29/2015 3:43:13 | 42.32 | 41.12 | 763 | 1.09 | 0.19 | 41.7 |
| 4/29/2015 3:43:14 | 42.65 | 41.45 | 768 | 1.08 | 0.19 | 42.0 |
| 4/29/2015 3:43:14 | 42.98 | 41.78 | 755 | 1.09 | 0.17 | 41.3 |
| 4/29/2015 3:43:15 | 43.31 | 42.11 | 755 | 1.10 | 0.19 | 41.3 |
| 4/29/2015 3:43:15 | 43.64 | 42.44 | 755 | 1.10 | 0.19 | 41.3 |
| 4/29/2015 3:43:15 | 43.96 | 42.76 | 760 | 1.08 | 0.19 | 41.6 |
| 4/29/2015 3:43:16 | 44.29 | 43.09 | 766 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:16 | 44.62 | 43.42 | 766 | 1.09 | 0.19 | 41.9 |
| 4/29/2015 3:43:17 | 44.95 | 43.75 | 767 | 1.07 | 0.19 | 41.9 |
| 4/29/2015 3:43:17 | 45.28 | 44.08 | 754 | 1.09 | 0.19 | 41.2 |
| 4/29/2015 3:43:18 | 45.60 | 44.40 | 763 | 1.09 | 0.19 | 41.7 |
| 4/29/2015 3:43:18 | 45.93 | 44.73 | 760 | 1.07 | 0.19 | 41.6 |
| 4/29/2015 3:43:19 | 46.26 | 45.06 | 773 | 1.14 | 0.19 | 42.3 |
| 4/29/2015 3:43:39 | 46.59 | 45.39 | 3 | 1.92 | 1.16 | 0.2 |
| 4/29/2015 3:43:40 | 46.92 | 45.72 | 25 | 1.03 | 1.39 | 1.3 |
| 4/29/2015 3:43:55 | 47.24 | 46.04 | 0 | 1.07 | 1.24 | 0.0 |
| 4/29/2015 3:44:09 | 47.57 | 46.37 | 8 | 1.07 | 1.00 | 0.4 |
| 4/29/2015 3:44:15 | 47.90 | 46.70 | 0 | 1.07 | 0.92 | 0.0 |
| 4/29/2015 3:44:20 | 48.23 | 47.03 | 49 | 1.09 | 1.33 | 2.7 |
| 4/29/2015 3:44:24 | 48.56 | 47.36 | 101 | 1.03 | 1.14 | 5.5 |
| 4/29/2015 3:44:32 | 48.88 | 47.68 | 66 | 0.98 | 1.19 | 3.6 |
| 4/29/2015 3:44:35 | 49.21 | 48.01 | 134 | 1.04 | 1.13 | 7.3 |
| 4/29/2015 3:44:39 | 49.54 | 48.34 | 101 | 1.04 | 1.10 | 5.5 |
| 4/29/2015 3:44:42 | 49.87 | 48.67 | 98 | 1.11 | 1.33 | 5.4 |
| 4/29/2015 3:44:45 | 50.20 | 49.00 | 104 | 1.02 | 1.13 | 5.7 |
| 4/29/2015 3:44:48 | 50.53 | 49.33 | 145 | 1.00 | 0.98 | 7.9 |
| 4/29/2015 3:44:51 | 50.85 | 49.65 | 121 | 1.06 | 1.11 | 6.6 |
| 4/29/2015 3:44:54 | 51.18 | 49.98 | 110 | 1.08 | 1.09 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:44:58 | 51.51 | 50.31 | 90 | 1.00 | 1.06 | 4.9 |
| 4/29/2015 | 3:45:05 | 51.84 | 50.64 | 57 | 1.07 | 1.04 | 3.1 |
| 4/29/2015 | 3:45:08 | 52.17 | 50.97 | 107 | 1.12 | 1.05 | 5.9 |
| 4/29/2015 | 3:45:11 | 52.49 | 51.29 | 115 | 1.01 | 1.13 | 6.3 |
| 4/29/2015 | 3:45:14 | 52.82 | 51.62 | 112 | 1.03 | 1.12 | 6.1 |
| 4/29/2015 | 3:45:18 | 53.15 | 51.95 | 113 | 1.07 | 1.10 | 6.2 |
| 4/29/2015 | 3:45:20 | 53.48 | 52.28 | 118 | 1.02 | 1.14 | 6.5 |
| 4/29/2015 | 3:45:24 | 53.81 | 52.61 | 111 | 1.10 | 1.15 | 6.0 |
| 4/29/2015 | 3:45:27 | 54.13 | 52.93 | 107 | 1.00 | 1.06 | 5.8 |
| 4/29/2015 | 3:45:31 | 54.46 | 53.26 | 95 | 1.05 | 0.98 | 5.2 |
| 4/29/2015 | 3:45:35 | 54.79 | 53.59 | 80 | 1.00 | 1.06 | 4.4 |
| 4/29/2015 | 3:45:39 | 55.12 | 53.92 | 80 | 0.97 | 1.03 | 4.4 |
| 4/29/2015 | 3:45:52 | 55.45 | 54.25 | 54 | 1.15 | 0.65 | 3.0 |
| 4/29/2015 | 3:47:13 | 55.77 | 54.57 | 118 | 1.06 | 0.60 | 6.4 |
| 4/29/2015 | 3:47:14 | 56.10 | 54.90 | 246 | 1.05 | 0.60 | 13.5 |
| 4/29/2015 | 3:47:14 | 56.43 | 55.23 | 374 | 1.07 | 0.59 | 20.4 |
| 4/29/2015 | 3:47:15 | 56.76 | 55.56 | 513 | 1.06 | 0.60 | 28.1 |
| 4/29/2015 | 3:47:15 | 57.09 | 55.89 | 648 | 1.07 | 0.59 | 35.4 |
| 4/29/2015 | 3:47:16 | 57.41 | 56.21 | 662 | 1.07 | 0.59 | 36.2 |
| 4/29/2015 | 3:47:16 | 57.74 | 56.54 | 662 | 1.07 | 0.59 | 36.2 |
| 4/29/2015 | 3:47:17 | 58.07 | 56.87 | 662 | 1.06 | 0.60 | 36.2 |
| 4/29/2015 | 3:47:17 | 58.40 | 57.20 | 662 | 1.06 | 0.59 | 36.2 |
| 4/29/2015 | 3:47:28 | 58.73 | 57.53 | 0 | 1.41 | 0.57 | 0.0 |
| 4/29/2015 | 3:47:28 | 59.06 | 57.86 | 44 | 1.05 | 0.60 | 2.4 |
| 4/29/2015 | 3:47:29 | 59.38 | 58.18 | 173 | 1.05 | 0.60 | 9.4 |
| 4/29/2015 | 3:47:30 | 59.71 | 58.51 | 293 | 1.06 | 0.61 | 16.0 |
| 4/29/2015 | 3:47:30 | 60.04 | 58.84 | 293 | 1.06 | 0.61 | 16.0 |
| 4/29/2015 | 3:47:31 | 60.37 | 59.17 | 430 | 1.05 | 0.61 | 23.5 |
| 4/29/2015 | 3:47:31 | 60.70 | 59.50 | 561 | 1.05 | 0.60 | 30.7 |
| 4/29/2015 | 3:47:32 | 61.02 | 59.82 | 649 | 1.05 | 0.60 | 35.5 |
| 4/29/2015 | 3:47:33 | 61.35 | 60.15 | 658 | 1.05 | 0.60 | 36.0 |
| 4/29/2015 | 3:47:33 | 61.68 | 60.48 | 650 | 1.05 | 0.60 | 35.6 |
| 4/29/2015 | 3:47:33 | 61.93 | 60.73 | 650 | 1.05 | 0.60 | 35.6 |

## I25 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:40:46

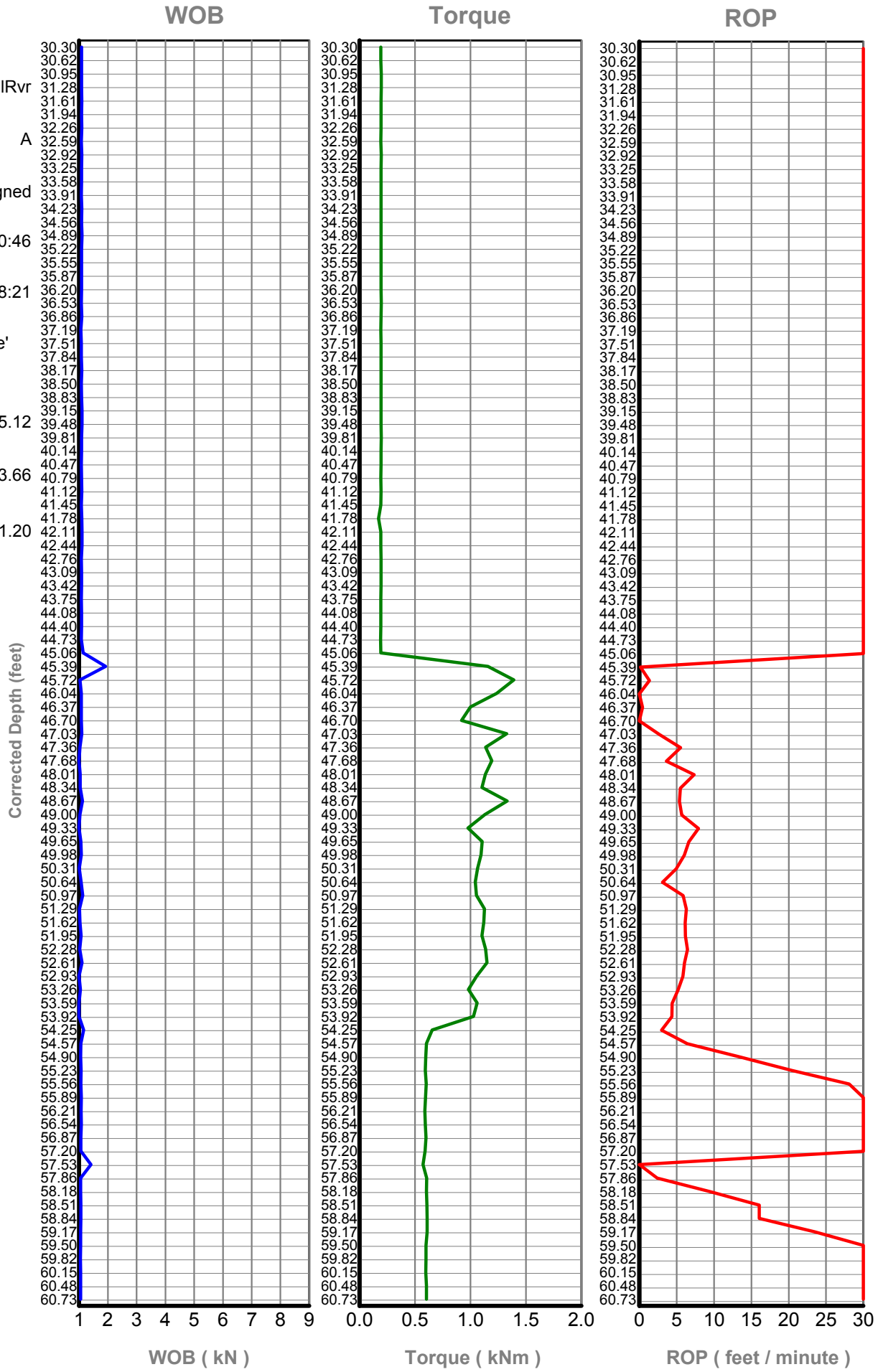
**End Date:**
4/29/2015 4:18:21

**Operator Note:**
'1.2 1.4 b Auto Complete'

**Northing:**
364,245.12

**Easting:**
247,633.66

**Tide (feet):**
1.20



## Hole: I26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:43:18 | 31.50 | 30.30 | 1,064 | 0.32 | 0.38 | 58.2 |
| 4/29/2015 3:43:18 | 31.82 | 30.62 | 1,064 | 0.32 | 0.38 | 58.2 |
| 4/29/2015 3:43:18 | 32.15 | 30.95 | 1,061 | 0.31 | 0.38 | 58.0 |
| 4/29/2015 3:43:19 | 32.48 | 31.28 | 1,061 | 0.32 | 0.38 | 58.0 |
| 4/29/2015 3:43:19 | 32.81 | 31.61 | 1,061 | 0.32 | 0.38 | 58.0 |
| 4/29/2015 3:43:19 | 33.14 | 31.94 | 1,049 | 0.32 | 0.38 | 57.3 |
| 4/29/2015 3:43:20 | 33.46 | 32.26 | 1,061 | 0.32 | 0.38 | 58.0 |
| 4/29/2015 3:43:20 | 33.79 | 32.59 | 1,061 | 0.32 | 0.38 | 58.0 |
| 4/29/2015 3:43:20 | 34.12 | 32.92 | 1,055 | 0.32 | 0.38 | 57.7 |
| 4/29/2015 3:43:21 | 34.45 | 33.25 | 1,046 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:21 | 34.78 | 33.58 | 1,046 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:21 | 35.11 | 33.91 | 1,046 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:22 | 35.43 | 34.23 | 1,052 | 0.31 | 0.38 | 57.5 |
| 4/29/2015 3:43:22 | 35.76 | 34.56 | 1,052 | 0.31 | 0.38 | 57.5 |
| 4/29/2015 3:43:22 | 36.09 | 34.89 | 1,052 | 0.32 | 0.38 | 57.5 |
| 4/29/2015 3:43:23 | 36.42 | 35.22 | 1,049 | 0.32 | 0.38 | 57.4 |
| 4/29/2015 3:43:23 | 36.75 | 35.55 | 1,049 | 0.32 | 0.38 | 57.4 |
| 4/29/2015 3:43:23 | 37.07 | 35.87 | 1,049 | 0.31 | 0.37 | 57.4 |
| 4/29/2015 3:43:24 | 37.40 | 36.20 | 1,055 | 0.31 | 0.38 | 57.7 |
| 4/29/2015 3:43:24 | 37.73 | 36.53 | 1,055 | 0.31 | 0.38 | 57.7 |
| 4/29/2015 3:43:24 | 38.06 | 36.86 | 1,064 | 0.33 | 0.38 | 58.2 |
| 4/29/2015 3:43:25 | 38.39 | 37.19 | 1,064 | 0.33 | 0.38 | 58.2 |
| 4/29/2015 3:43:25 | 38.71 | 37.51 | 1,058 | 0.32 | 0.39 | 57.9 |
| 4/29/2015 3:43:26 | 39.04 | 37.84 | 1,061 | 0.31 | 0.38 | 58.0 |
| 4/29/2015 3:43:26 | 39.37 | 38.17 | 1,061 | 0.31 | 0.38 | 58.0 |
| 4/29/2015 3:43:26 | 39.70 | 38.50 | 1,057 | 0.32 | 0.38 | 57.8 |
| 4/29/2015 3:43:27 | 40.03 | 38.83 | 1,052 | 0.32 | 0.38 | 57.5 |
| 4/29/2015 3:43:27 | 40.35 | 39.15 | 1,052 | 0.32 | 0.38 | 57.5 |
| 4/29/2015 3:43:27 | 40.68 | 39.48 | 1,053 | 0.32 | 0.38 | 57.6 |
| 4/29/2015 3:43:28 | 41.01 | 39.81 | 1,047 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:28 | 41.34 | 40.14 | 1,047 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:28 | 41.67 | 40.47 | 1,046 | 0.32 | 0.38 | 57.2 |
| 4/29/2015 3:43:29 | 41.99 | 40.79 | 1,062 | 0.33 | 0.38 | 58.1 |
| 4/29/2015 3:43:29 | 42.32 | 41.12 | 1,062 | 0.33 | 0.38 | 58.1 |
| 4/29/2015 3:43:29 | 42.65 | 41.45 | 1,066 | 0.14 | 0.38 | 58.3 |
| 4/29/2015 3:43:30 | 42.98 | 41.78 | 1,036 | 0.32 | 0.38 | 56.7 |
| 4/29/2015 3:43:30 | 43.31 | 42.11 | 1,036 | 0.32 | 0.38 | 56.7 |
| 4/29/2015 3:43:30 | 43.64 | 42.44 | 1,055 | 0.32 | 0.38 | 57.7 |
| 4/29/2015 3:43:31 | 43.96 | 42.76 | 1,071 | 0.32 | 0.38 | 58.6 |
| 4/29/2015 3:43:31 | 44.29 | 43.09 | 1,071 | 0.32 | 0.38 | 58.6 |
| 4/29/2015 3:43:31 | 44.62 | 43.42 | 1,036 | 0.32 | 0.38 | 56.7 |
| 4/29/2015 3:43:32 | 44.95 | 43.75 | 1,036 | 0.32 | 0.38 | 56.7 |
| 4/29/2015 3:43:32 | 45.28 | 44.08 | 1,036 | 0.32 | 0.38 | 56.7 |
| 4/29/2015 3:43:32 | 45.60 | 44.40 | 1,051 | 0.32 | 0.38 | 57.5 |
| 4/29/2015 3:43:33 | 45.93 | 44.73 | 1,051 | 0.32 | 0.38 | 57.5 |
| 4/29/2015 3:43:33 | 46.26 | 45.06 | 1,074 | 0.32 | 0.38 | 58.7 |
| 4/29/2015 3:43:33 | 46.59 | 45.39 | 1,041 | 0.32 | 0.38 | 56.9 |
| 4/29/2015 3:43:34 | 46.92 | 45.72 | 1,041 | 0.32 | 0.38 | 56.9 |
| 4/29/2015 3:43:34 | 47.24 | 46.04 | 1,041 | 0.32 | 0.38 | 56.9 |
| 4/29/2015 3:43:34 | 47.57 | 46.37 | 1,032 | 0.32 | 0.38 | 56.5 |
| 4/29/2015 3:43:35 | 47.90 | 46.70 | 1,032 | 0.32 | 0.38 | 56.5 |
| 4/29/2015 3:43:35 | 48.23 | 47.03 | 1,032 | 0.30 | 0.42 | 56.5 |
| 4/29/2015 3:43:45 | 48.56 | 47.36 | 66 | 4.29 | 0.44 | 3.6 |
| 4/29/2015 3:43:47 | 48.88 | 47.68 | 158 | 3.18 | 0.45 | 8.6 |
| 4/29/2015 3:43:54 | 49.21 | 48.01 | 43 | 4.00 | 0.46 | 2.4 |
| 4/29/2015 3:43:58 | 49.54 | 48.34 | 111 | 3.28 | 0.46 | 6.1 |
| 4/29/2015 3:44:02 | 49.87 | 48.67 | 93 | 3.60 | 0.46 | 5.1 |
| 4/29/2015 3:44:06 | 50.20 | 49.00 | 84 | 3.35 | 0.46 | 4.6 |
| 4/29/2015 3:44:11 | 50.53 | 49.33 | 78 | 4.00 | 0.46 | 4.3 |
| 4/29/2015 3:44:15 | 50.85 | 49.65 | 84 | 3.41 | 0.47 | 4.6 |
| 4/29/2015 3:44:18 | 51.18 | 49.98 | 124 | 3.37 | 0.47 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:44:21 | 51.51 | 50.31 | 134 | 3.51 | 0.46 | 7.3 |
| 4/29/2015 | 3:44:24 | 51.84 | 50.64 | 110 | 3.22 | 0.46 | 6.0 |
| 4/29/2015 | 3:44:27 | 52.17 | 50.97 | 93 | 3.32 | 0.47 | 5.1 |
| 4/29/2015 | 3:44:32 | 52.49 | 51.29 | 91 | 3.10 | 0.46 | 5.0 |
| 4/29/2015 | 3:44:36 | 52.82 | 51.62 | 81 | 3.39 | 0.47 | 4.4 |
| 4/29/2015 | 3:44:41 | 53.15 | 51.95 | 72 | 3.37 | 0.46 | 4.0 |
| 4/29/2015 | 3:44:45 | 53.48 | 52.28 | 92 | 3.64 | 0.46 | 5.0 |
| 4/29/2015 | 3:44:50 | 53.81 | 52.61 | 69 | 3.27 | 0.46 | 3.8 |
| 4/29/2015 | 3:44:53 | 54.13 | 52.93 | 98 | 3.52 | 0.45 | 5.4 |
| 4/29/2015 | 3:44:56 | 54.46 | 53.26 | 150 | 3.24 | 0.46 | 8.2 |
| 4/29/2015 | 3:45:02 | 54.79 | 53.59 | 58 | 3.13 | 0.46 | 3.2 |
| 4/29/2015 | 3:45:06 | 55.12 | 53.92 | 84 | 3.35 | 0.46 | 4.6 |
| 4/29/2015 | 3:45:10 | 55.45 | 54.25 | 72 | 3.15 | 0.47 | 4.0 |
| 4/29/2015 | 3:45:16 | 55.77 | 54.57 | 76 | 3.12 | 0.47 | 4.1 |
| 4/29/2015 | 3:45:19 | 56.10 | 54.90 | 95 | 3.28 | 0.47 | 5.2 |
| 4/29/2015 | 3:45:24 | 56.39 | 55.19 | 41 | 3.22 | 0.45 | 2.2 |

## I26 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:41:52

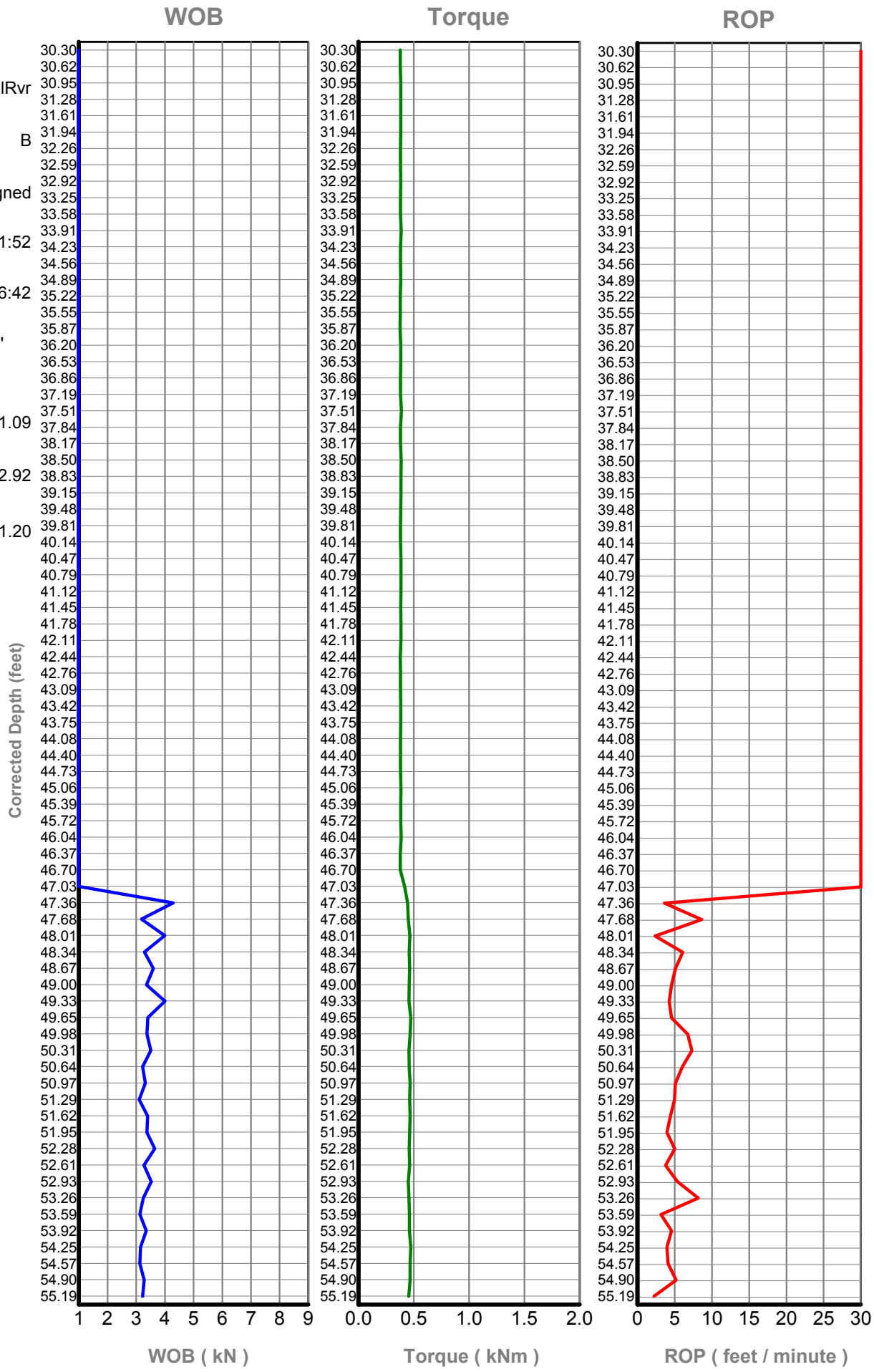
**End Date:**
4/29/2015 3:46:42

**Operator Note:**
'1.2 1.4b Auto Complete'

**Northing:**
364,291.09

**Easting:**
247,692.92

**Tide (feet):**
1.20



## Hole: I27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:43:02 | 31.50 | 30.30 | 1,075 | 1.58 | 0.14 | 58.8 |
| 4/29/2015 3:43:02 | 31.82 | 30.62 | 1,071 | 1.60 | 0.14 | 58.6 |
| 4/29/2015 3:43:03 | 32.15 | 30.95 | 1,071 | 1.60 | 0.14 | 58.6 |
| 4/29/2015 3:43:03 | 32.48 | 31.28 | 1,068 | 1.59 | 0.15 | 58.4 |
| 4/29/2015 3:43:03 | 32.81 | 31.61 | 1,080 | 1.58 | 0.14 | 59.1 |
| 4/29/2015 3:43:04 | 33.14 | 31.94 | 1,080 | 1.58 | 0.14 | 59.1 |
| 4/29/2015 3:43:04 | 33.46 | 32.26 | 1,087 | 1.58 | 0.14 | 59.4 |
| 4/29/2015 3:43:05 | 33.79 | 32.59 | 1,087 | 1.58 | 0.14 | 59.4 |
| 4/29/2015 3:43:05 | 34.12 | 32.92 | 1,075 | 1.57 | 0.15 | 58.8 |
| 4/29/2015 3:43:05 | 34.45 | 33.25 | 1,075 | 1.62 | 0.15 | 58.8 |
| 4/29/2015 3:43:06 | 34.78 | 33.58 | 1,075 | 1.62 | 0.15 | 58.8 |
| 4/29/2015 3:43:06 | 35.11 | 33.91 | 1,075 | 1.61 | 0.15 | 58.8 |
| 4/29/2015 3:43:06 | 35.43 | 34.23 | 1,069 | 1.60 | 0.15 | 58.5 |
| 4/29/2015 3:43:07 | 35.76 | 34.56 | 1,069 | 1.60 | 0.15 | 58.5 |
| 4/29/2015 3:43:07 | 36.09 | 34.89 | 1,069 | 1.60 | 0.15 | 58.5 |
| 4/29/2015 3:43:07 | 36.42 | 35.22 | 1,069 | 1.62 | 0.14 | 58.5 |
| 4/29/2015 3:43:08 | 36.75 | 35.55 | 1,069 | 1.62 | 0.14 | 58.5 |
| 4/29/2015 3:43:08 | 37.07 | 35.87 | 1,072 | 1.61 | 0.14 | 58.6 |
| 4/29/2015 3:43:08 | 37.40 | 36.20 | 1,070 | 1.62 | 0.15 | 58.5 |
| 4/29/2015 3:43:09 | 37.73 | 36.53 | 1,070 | 1.62 | 0.15 | 58.5 |
| 4/29/2015 3:43:09 | 38.06 | 36.86 | 1,070 | 1.58 | 0.15 | 58.5 |
| 4/29/2015 3:43:09 | 38.39 | 37.19 | 1,070 | 1.58 | 0.15 | 58.5 |
| 4/29/2015 3:43:09 | 38.71 | 37.51 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 3:43:10 | 39.04 | 37.84 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 3:43:10 | 39.37 | 38.17 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 3:43:10 | 39.70 | 38.50 | 1,064 | 1.58 | 0.15 | 58.2 |
| 4/29/2015 3:43:11 | 40.03 | 38.83 | 1,064 | 1.57 | 0.14 | 58.2 |
| 4/29/2015 3:43:11 | 40.35 | 39.15 | 1,064 | 1.57 | 0.14 | 58.2 |
| 4/29/2015 3:43:11 | 40.68 | 39.48 | 1,058 | 1.61 | 0.14 | 57.8 |
| 4/29/2015 3:43:12 | 41.01 | 39.81 | 1,070 | 1.60 | 0.14 | 58.5 |
| 4/29/2015 3:43:12 | 41.34 | 40.14 | 1,070 | 1.60 | 0.14 | 58.5 |
| 4/29/2015 3:43:12 | 41.67 | 40.47 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 3:43:13 | 41.99 | 40.79 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 3:43:13 | 42.32 | 41.12 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 3:43:13 | 42.65 | 41.45 | 1,064 | 1.59 | 0.15 | 58.2 |
| 4/29/2015 3:43:14 | 42.98 | 41.78 | 1,064 | 1.59 | 0.15 | 58.2 |
| 4/29/2015 3:43:14 | 43.31 | 42.11 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 3:43:15 | 43.64 | 42.44 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 3:43:15 | 43.96 | 42.76 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 3:43:15 | 44.29 | 43.09 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 3:43:16 | 44.62 | 43.42 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 3:43:16 | 44.95 | 43.75 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 3:43:16 | 45.28 | 44.08 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 3:43:17 | 45.60 | 44.40 | 1,058 | 1.61 | 0.14 | 57.9 |
| 4/29/2015 3:43:17 | 45.93 | 44.73 | 1,058 | 1.61 | 0.14 | 57.9 |
| 4/29/2015 3:43:17 | 46.26 | 45.06 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 3:43:18 | 46.59 | 45.39 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 3:43:18 | 46.92 | 45.72 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 3:43:18 | 47.24 | 46.04 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 3:43:19 | 47.57 | 46.37 | 1,058 | 1.66 | 0.14 | 57.9 |
| 4/29/2015 3:43:36 | 47.90 | 46.70 | 0 | 1.74 | 1.22 | 0.0 |
| 4/29/2015 3:43:42 | 48.23 | 47.03 | 0 | 1.70 | 1.36 | 0.0 |
| 4/29/2015 3:43:45 | 48.56 | 47.36 | 127 | 1.67 | 1.36 | 7.0 |
| 4/29/2015 3:43:51 | 48.88 | 47.68 | 49 | 1.67 | 1.26 | 2.7 |
| 4/29/2015 3:43:57 | 49.21 | 48.01 | 60 | 1.69 | 1.28 | 3.3 |
| 4/29/2015 3:44:03 | 49.54 | 48.34 | 61 | 1.70 | 1.26 | 3.3 |
| 4/29/2015 3:44:09 | 49.87 | 48.67 | 45 | 1.72 | 1.31 | 2.4 |
| 4/29/2015 3:44:15 | 50.20 | 49.00 | 62 | 1.70 | 1.29 | 3.4 |
| 4/29/2015 3:44:19 | 50.53 | 49.33 | 103 | 1.69 | 1.26 | 5.6 |
| 4/29/2015 3:44:23 | 50.85 | 49.65 | 77 | 1.69 | 1.29 | 4.2 |
| 4/29/2015 3:44:29 | 51.18 | 49.98 | 63 | 1.67 | 1.27 | 3.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:44:35 | 51.51 | 50.31 | 49 | 1.67 | 1.28 | 2.7 |
| 4/29/2015 | 3:44:43 | 51.84 | 50.64 | 49 | 1.71 | 1.32 | 2.7 |
| 4/29/2015 | 3:44:47 | 52.07 | 50.87 | 53 | 1.67 | 1.22 | 2.9 |

## I27 - Summary

**Pattern Number:**
Area1_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:42:00

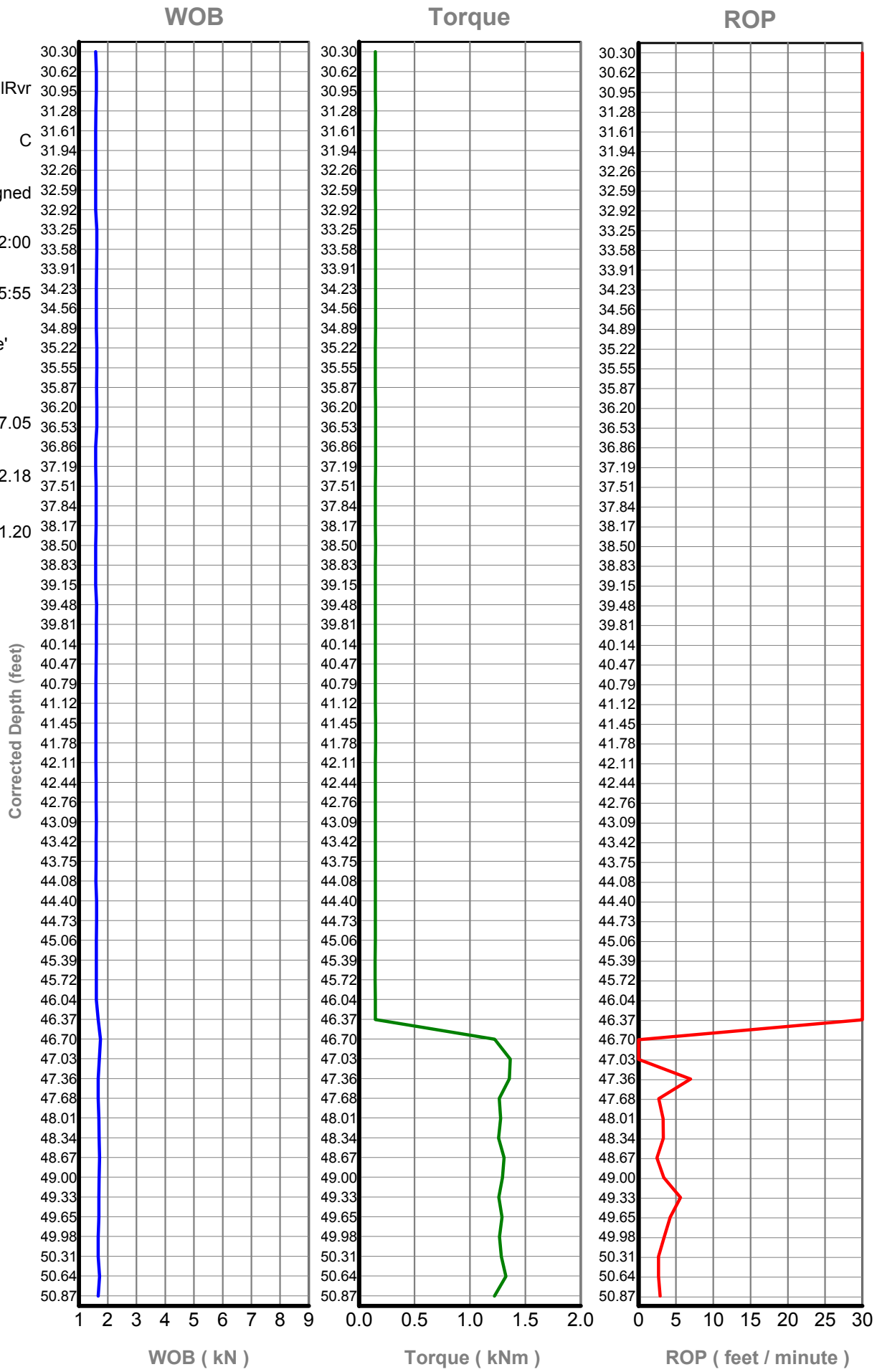
**End Date:**
4/29/2015 3:45:55

**Operator Note:**
'1.2 1.4 c Auto Complete'

**Northing:**
364,337.05

**Easting:**
247,752.18

**Tide (feet):**
1.20



## Hole: I28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:01:45 | 34.12 | 30.22 | 797 | 1.05 | 0.19 | 43.6 |
| 4/29/2015 1:01:45 | 34.45 | 30.55 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 1:01:46 | 34.78 | 30.88 | 798 | 1.05 | 0.17 | 43.6 |
| 4/29/2015 1:02:47 | 35.11 | 31.21 | 31 | 1.13 | 0.18 | 1.7 |
| 4/29/2015 1:02:48 | 35.43 | 31.53 | 184 | 1.15 | 0.19 | 10.0 |
| 4/29/2015 1:02:48 | 35.76 | 31.86 | 340 | 0.90 | 0.18 | 18.6 |
| 4/29/2015 1:02:49 | 36.09 | 32.19 | 481 | 1.01 | 0.18 | 26.3 |
| 4/29/2015 1:02:49 | 36.42 | 32.52 | 612 | 1.03 | 0.24 | 33.5 |
| 4/29/2015 1:02:50 | 36.75 | 32.85 | 612 | 1.12 | 0.24 | 33.5 |
| 4/29/2015 1:02:51 | 37.07 | 33.17 | 732 | 1.22 | 0.24 | 40.0 |
| 4/29/2015 1:02:51 | 37.40 | 33.50 | 712 | 1.26 | 0.24 | 38.9 |
| 4/29/2015 1:02:52 | 37.73 | 33.83 | 702 | 1.13 | 0.64 | 38.4 |
| 4/29/2015 1:02:52 | 38.06 | 34.16 | 702 | 1.13 | 0.64 | 38.4 |
| 4/29/2015 1:02:52 | 38.39 | 34.49 | 700 | 1.15 | 0.76 | 38.3 |
| 4/29/2015 1:02:53 | 38.71 | 34.81 | 709 | 1.16 | 0.78 | 38.8 |
| 4/29/2015 1:02:53 | 39.04 | 35.14 | 700 | 1.15 | 0.79 | 38.3 |
| 4/29/2015 1:02:54 | 39.37 | 35.47 | 704 | 1.15 | 0.79 | 38.5 |
| 4/29/2015 1:02:54 | 39.70 | 35.80 | 695 | 1.17 | 0.80 | 38.0 |
| 4/29/2015 1:02:55 | 40.03 | 36.13 | 697 | 1.16 | 0.77 | 38.1 |
| 4/29/2015 1:02:55 | 40.35 | 36.45 | 694 | 1.16 | 0.77 | 37.9 |
| 4/29/2015 1:02:56 | 40.68 | 36.78 | 694 | 1.16 | 0.80 | 37.9 |
| 4/29/2015 1:02:56 | 41.01 | 37.11 | 694 | 1.16 | 0.80 | 37.9 |
| 4/29/2015 1:02:57 | 41.34 | 37.44 | 694 | 1.16 | 0.80 | 37.9 |
| 4/29/2015 1:02:57 | 41.67 | 37.77 | 694 | 1.15 | 0.79 | 37.9 |
| 4/29/2015 1:02:58 | 41.99 | 38.09 | 691 | 1.16 | 0.79 | 37.8 |
| 4/29/2015 1:02:58 | 42.32 | 38.42 | 687 | 1.16 | 0.80 | 37.6 |
| 4/29/2015 1:02:59 | 42.65 | 38.75 | 694 | 1.15 | 0.80 | 37.9 |
| 4/29/2015 1:02:59 | 42.98 | 39.08 | 694 | 1.15 | 0.80 | 37.9 |
| 4/29/2015 1:03:00 | 43.31 | 39.41 | 691 | 1.15 | 0.78 | 37.8 |
| 4/29/2015 1:03:00 | 43.64 | 39.74 | 686 | 1.07 | 0.77 | 37.5 |
| 4/29/2015 1:03:07 | 43.96 | 40.06 | 3 | 1.13 | 0.80 | 0.2 |
| 4/29/2015 1:03:07 | 44.29 | 40.39 | 94 | 1.05 | 0.79 | 5.2 |
| 4/29/2015 1:03:08 | 44.62 | 40.72 | 234 | 1.02 | 0.77 | 12.8 |
| 4/29/2015 1:03:08 | 44.95 | 41.05 | 378 | 1.02 | 0.73 | 20.7 |
| 4/29/2015 1:03:09 | 45.28 | 41.38 | 524 | 1.02 | 0.75 | 28.7 |
| 4/29/2015 1:03:09 | 45.60 | 41.70 | 674 | 1.05 | 0.74 | 36.9 |
| 4/29/2015 1:03:10 | 45.93 | 42.03 | 723 | 1.04 | 0.74 | 39.5 |
| 4/29/2015 1:03:10 | 46.26 | 42.36 | 727 | 1.05 | 0.77 | 39.7 |
| 4/29/2015 1:03:11 | 46.59 | 42.69 | 716 | 1.04 | 0.77 | 39.1 |
| 4/29/2015 1:03:11 | 46.92 | 43.02 | 717 | 1.02 | 0.76 | 39.2 |
| 4/29/2015 1:03:12 | 47.24 | 43.34 | 711 | 1.02 | 0.74 | 38.9 |
| 4/29/2015 1:03:13 | 47.57 | 43.67 | 714 | 1.02 | 0.76 | 39.1 |
| 4/29/2015 1:03:13 | 47.90 | 44.00 | 713 | 1.02 | 0.76 | 39.0 |
| 4/29/2015 1:03:14 | 48.23 | 44.33 | 727 | 1.03 | 0.76 | 39.8 |
| 4/29/2015 1:03:14 | 48.56 | 44.66 | 720 | 1.02 | 0.76 | 39.4 |
| 4/29/2015 1:03:15 | 48.88 | 44.98 | 720 | 1.02 | 0.76 | 39.4 |
| 4/29/2015 1:03:15 | 49.21 | 45.31 | 706 | 1.02 | 0.74 | 38.6 |
| 4/29/2015 1:03:15 | 49.54 | 45.64 | 706 | 1.01 | 0.73 | 38.6 |
| 4/29/2015 1:03:16 | 49.87 | 45.97 | 717 | 1.02 | 0.72 | 39.2 |
| 4/29/2015 1:03:16 | 50.20 | 46.30 | 717 | 1.01 | 0.72 | 39.2 |
| 4/29/2015 1:03:17 | 50.53 | 46.63 | 706 | 1.02 | 0.76 | 38.6 |
| 4/29/2015 1:03:17 | 50.85 | 46.95 | 714 | 1.01 | 0.76 | 39.1 |
| 4/29/2015 1:03:18 | 51.18 | 47.28 | 731 | 1.01 | 0.76 | 40.0 |
| 4/29/2015 1:03:18 | 51.51 | 47.61 | 720 | 1.01 | 0.75 | 39.4 |
| 4/29/2015 1:03:19 | 51.84 | 47.94 | 722 | 1.08 | 0.82 | 39.5 |
| 4/29/2015 1:03:58 | 52.17 | 48.27 | 0 | 1.07 | 0.77 | 0.0 |
| 4/29/2015 1:03:59 | 52.49 | 48.59 | 157 | 1.08 | 1.13 | 8.6 |
| 4/29/2015 1:04:10 | 52.82 | 48.92 | 6 | 2.02 | 1.14 | 0.3 |
| 4/29/2015 1:04:11 | 53.15 | 49.25 | 119 | 1.06 | 1.26 | 6.5 |
| 4/29/2015 1:04:13 | 53.48 | 49.58 | 217 | 0.98 | 1.22 | 11.9 |
| 4/29/2015 1:04:38 | 53.81 | 49.91 | 116 | 1.11 | 1.29 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:04:41 | 54.13 | 50.23 | 104 | 1.09 | 1.29 | 5.7 |
| 4/29/2015 | 1:04:52 | 54.46 | 50.56 | 46 | 1.05 | 1.21 | 2.5 |
| 4/29/2015 | 1:04:59 | 54.79 | 50.89 | 46 | 1.07 | 0.96 | 2.5 |
| 4/29/2015 | 1:05:05 | 55.12 | 51.22 | 58 | 1.00 | 1.15 | 3.2 |
| 4/29/2015 | 1:05:12 | 55.45 | 51.55 | 55 | 1.09 | 1.12 | 3.0 |
| 4/29/2015 | 1:05:19 | 55.77 | 51.87 | 52 | 1.14 | 1.13 | 2.8 |
| 4/29/2015 | 1:05:20 | 55.82 | 51.92 | 52 | 1.19 | 1.04 | 2.8 |

## I28 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:59:39

**End Date:**
4/29/2015 1:06:49

**Operator Note:**
'3.9 4 b Auto Complete'

**Northing:**
364,386.31

**Easting:**
247,810.11

**Tide (feet):**
3.90



## Hole: I29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:02:07 | 34.12 | 30.22 | 1,127 | 0.30 | 0.37 | 61.6 |
| 4/29/2015 1:02:08 | 34.45 | 30.55 | 1,127 | 0.30 | 0.37 | 61.6 |
| 4/29/2015 1:02:08 | 34.78 | 30.88 | 1,127 | 0.31 | 0.37 | 61.6 |
| 4/29/2015 1:02:08 | 35.11 | 31.21 | 1,134 | 0.30 | 0.37 | 62.0 |
| 4/29/2015 1:02:09 | 35.43 | 31.53 | 1,134 | 0.30 | 0.37 | 62.0 |
| 4/29/2015 1:02:09 | 35.76 | 31.86 | 1,115 | 0.30 | 0.37 | 61.0 |
| 4/29/2015 1:02:09 | 36.09 | 32.19 | 1,122 | 0.31 | 0.36 | 61.4 |
| 4/29/2015 1:02:10 | 36.42 | 32.52 | 1,122 | 0.31 | 0.36 | 61.4 |
| 4/29/2015 1:02:10 | 36.75 | 32.85 | 1,104 | 0.31 | 0.38 | 60.4 |
| 4/29/2015 1:02:10 | 37.07 | 33.17 | 1,104 | 0.31 | 0.38 | 60.4 |
| 4/29/2015 1:02:10 | 37.40 | 33.50 | 1,115 | 0.31 | 0.37 | 61.0 |
| 4/29/2015 1:02:11 | 37.73 | 33.83 | 1,119 | 0.30 | 0.37 | 61.2 |
| 4/29/2015 1:02:12 | 38.06 | 34.16 | 1,119 | 0.30 | 0.37 | 61.2 |
| 4/29/2015 1:02:12 | 38.39 | 34.49 | 1,111 | 0.31 | 0.37 | 60.7 |
| 4/29/2015 1:02:12 | 38.71 | 34.81 | 1,111 | 0.31 | 0.37 | 60.7 |
| 4/29/2015 1:02:12 | 39.04 | 35.14 | 1,114 | 0.31 | 0.37 | 60.9 |
| 4/29/2015 1:02:13 | 39.37 | 35.47 | 1,142 | 0.31 | 0.37 | 62.4 |
| 4/29/2015 1:02:13 | 39.70 | 35.80 | 1,142 | 0.31 | 0.37 | 62.4 |
| 4/29/2015 1:02:13 | 40.03 | 36.13 | 1,134 | 0.30 | 0.37 | 62.0 |
| 4/29/2015 1:02:14 | 40.35 | 36.45 | 1,134 | 0.30 | 0.37 | 62.0 |
| 4/29/2015 1:02:14 | 40.68 | 36.78 | 1,130 | 0.31 | 0.37 | 61.8 |
| 4/29/2015 1:02:14 | 41.01 | 37.11 | 1,136 | 0.31 | 0.37 | 62.1 |
| 4/29/2015 1:02:15 | 41.34 | 37.44 | 1,136 | 0.31 | 0.37 | 62.1 |
| 4/29/2015 1:02:15 | 41.67 | 37.77 | 1,131 | 0.31 | 0.37 | 61.9 |
| 4/29/2015 1:02:15 | 41.99 | 38.09 | 1,126 | 0.30 | 0.37 | 61.5 |
| 4/29/2015 1:02:16 | 42.32 | 38.42 | 1,126 | 0.30 | 0.37 | 61.5 |
| 4/29/2015 1:02:16 | 42.65 | 38.75 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/29/2015 1:02:16 | 42.98 | 39.08 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/29/2015 1:02:16 | 43.31 | 39.41 | 1,101 | 0.31 | 0.38 | 60.2 |
| 4/29/2015 1:02:17 | 43.64 | 39.74 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/29/2015 1:02:17 | 43.96 | 40.06 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/29/2015 1:02:17 | 44.29 | 40.39 | 1,126 | 0.31 | 0.37 | 61.6 |
| 4/29/2015 1:02:18 | 44.62 | 40.72 | 1,126 | 0.31 | 0.37 | 61.6 |
| 4/29/2015 1:02:18 | 44.95 | 41.05 | 1,098 | 0.30 | 0.37 | 60.1 |
| 4/29/2015 1:02:18 | 45.28 | 41.38 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/29/2015 1:02:19 | 45.60 | 41.70 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/29/2015 1:02:19 | 45.93 | 42.03 | 1,146 | 0.31 | 0.37 | 62.7 |
| 4/29/2015 1:02:19 | 46.26 | 42.36 | 1,146 | 0.31 | 0.37 | 62.7 |
| 4/29/2015 1:02:19 | 46.59 | 42.69 | 1,140 | 0.31 | 0.37 | 62.4 |
| 4/29/2015 1:02:20 | 46.92 | 43.02 | 1,124 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:20 | 47.24 | 43.34 | 1,124 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:20 | 47.57 | 43.67 | 1,124 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:21 | 47.90 | 44.00 | 1,124 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:21 | 48.23 | 44.33 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/29/2015 1:02:21 | 48.56 | 44.66 | 1,126 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:22 | 48.88 | 44.98 | 1,126 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:22 | 49.21 | 45.31 | 1,126 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:02:23 | 49.54 | 45.64 | 1,109 | 0.27 | 0.46 | 60.7 |
| 4/29/2015 1:02:26 | 49.87 | 45.97 | 0 | 2.63 | 0.44 | 0.0 |
| 4/29/2015 1:02:33 | 50.20 | 46.30 | 83 | 3.54 | 0.46 | 4.6 |
| 4/29/2015 1:02:41 | 50.53 | 46.63 | 38 | 2.86 | 0.46 | 2.1 |
| 4/29/2015 1:02:49 | 50.85 | 46.95 | 55 | 3.47 | 0.46 | 3.0 |
| 4/29/2015 1:02:56 | 51.18 | 47.28 | 47 | 2.94 | 0.46 | 2.6 |
| 4/29/2015 1:03:00 | 51.36 | 47.46 | 44 | 3.18 | 0.47 | 2.4 |

## I29 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:00:41

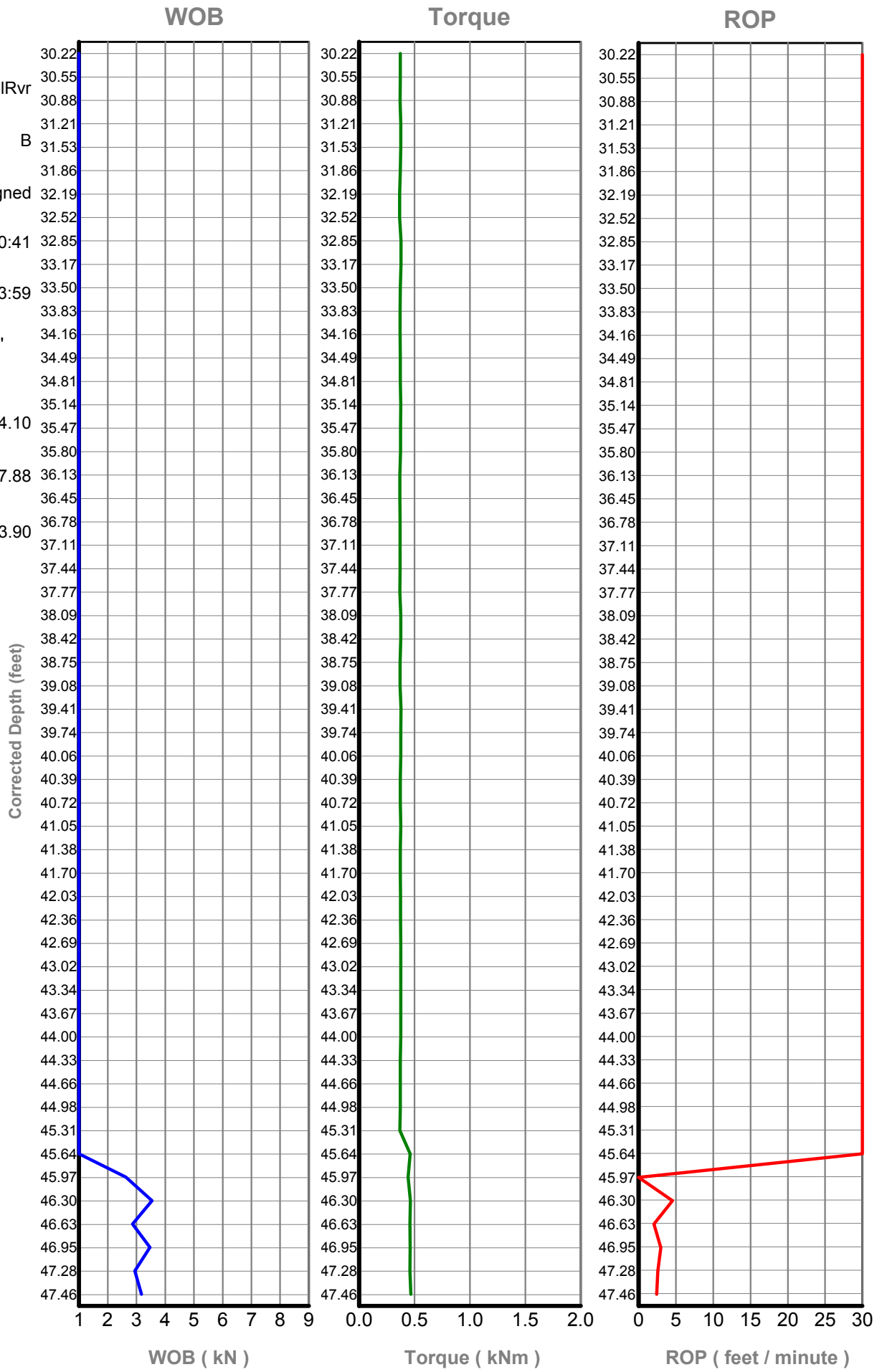
**End Date:**
4/29/2015 1:03:59

**Operator Note:**
'3.9 4.0b Auto Complete'

**Northing:**
364,434.10

**Easting:**
247,867.88

**Tide (feet):**
3.90



## Hole: I3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 4:42:22 | 30.84 | 30.04 | 1,086 | 1.59 | 0.14 | 59.4 |
| 4/29/2015 4:42:22 | 31.17 | 30.37 | 1,086 | 1.58 | 0.15 | 59.4 |
| 4/29/2015 4:42:22 | 31.50 | 30.70 | 1,083 | 1.59 | 0.14 | 59.2 |
| 4/29/2015 4:42:23 | 31.82 | 31.02 | 1,083 | 1.59 | 0.14 | 59.2 |
| 4/29/2015 4:42:23 | 32.15 | 31.35 | 1,077 | 1.57 | 0.14 | 58.9 |
| 4/29/2015 4:42:24 | 32.48 | 31.68 | 1,077 | 1.57 | 0.14 | 58.9 |
| 4/29/2015 4:42:23 | 32.81 | 32.01 | 1,056 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 4:42:24 | 33.14 | 32.34 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 4:42:25 | 33.46 | 32.66 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 4:42:25 | 33.79 | 32.99 | 1,082 | 1.59 | 0.14 | 59.2 |
| 4/29/2015 4:42:25 | 34.12 | 33.32 | 1,085 | 1.59 | 0.14 | 59.3 |
| 4/29/2015 4:42:26 | 34.45 | 33.65 | 1,085 | 1.59 | 0.14 | 59.3 |
| 4/29/2015 4:42:26 | 34.78 | 33.98 | 1,065 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 4:42:26 | 35.11 | 34.31 | 1,065 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 4:42:26 | 35.43 | 34.63 | 1,081 | 1.59 | 0.14 | 59.1 |
| 4/29/2015 4:42:27 | 35.76 | 34.96 | 1,093 | 1.60 | 0.14 | 59.8 |
| 4/29/2015 4:42:27 | 36.09 | 35.29 | 1,093 | 1.60 | 0.14 | 59.8 |
| 4/29/2015 4:42:27 | 36.42 | 35.62 | 1,052 | 1.58 | 0.14 | 57.5 |
| 4/29/2015 4:42:28 | 36.75 | 35.95 | 1,052 | 1.58 | 0.14 | 57.5 |
| 4/29/2015 4:42:28 | 37.07 | 36.27 | 1,052 | 1.58 | 0.14 | 57.5 |
| 4/29/2015 4:42:28 | 37.40 | 36.60 | 1,065 | 1.57 | 0.14 | 58.3 |
| 4/29/2015 4:42:29 | 37.73 | 36.93 | 1,044 | 1.59 | 0.14 | 57.1 |
| 4/29/2015 4:42:29 | 38.06 | 37.26 | 1,044 | 1.59 | 0.14 | 57.1 |
| 4/29/2015 4:42:29 | 38.39 | 37.59 | 1,044 | 1.59 | 0.14 | 57.1 |
| 4/29/2015 4:42:30 | 38.71 | 37.91 | 1,042 | 1.59 | 0.14 | 57.0 |
| 4/29/2015 4:42:30 | 39.04 | 38.24 | 1,042 | 1.59 | 0.14 | 57.0 |
| 4/29/2015 4:42:30 | 39.37 | 38.57 | 1,045 | 1.57 | 0.14 | 57.1 |
| 4/29/2015 4:42:31 | 39.70 | 38.90 | 1,045 | 1.57 | 0.14 | 57.1 |
| 4/29/2015 4:42:31 | 40.03 | 39.23 | 1,045 | 1.58 | 0.14 | 57.1 |
| 4/29/2015 4:42:31 | 40.35 | 39.55 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:32 | 40.68 | 39.88 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:32 | 41.01 | 40.21 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:32 | 41.34 | 40.54 | 1,055 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 4:42:33 | 41.67 | 40.87 | 1,055 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 4:42:33 | 41.99 | 41.19 | 1,055 | 1.58 | 0.14 | 57.7 |
| 4/29/2015 4:42:33 | 42.32 | 41.52 | 1,094 | 1.58 | 0.14 | 59.8 |
| 4/29/2015 4:42:34 | 42.65 | 41.85 | 1,094 | 1.58 | 0.14 | 59.8 |
| 4/29/2015 4:42:34 | 42.98 | 42.18 | 1,079 | 1.59 | 0.14 | 59.0 |
| 4/29/2015 4:42:34 | 43.31 | 42.51 | 1,079 | 1.59 | 0.14 | 59.0 |
| 4/29/2015 4:42:35 | 43.64 | 42.84 | 1,083 | 1.59 | 0.14 | 59.2 |
| 4/29/2015 4:42:35 | 43.96 | 43.16 | 1,085 | 1.58 | 0.14 | 59.3 |
| 4/29/2015 4:42:36 | 44.29 | 43.49 | 1,085 | 1.58 | 0.14 | 59.3 |
| 4/29/2015 4:42:36 | 44.62 | 43.82 | 1,086 | 1.59 | 0.14 | 59.4 |
| 4/29/2015 4:42:36 | 44.95 | 44.15 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:37 | 45.28 | 44.48 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:37 | 45.60 | 44.80 | 1,070 | 1.60 | 0.14 | 58.5 |
| 4/29/2015 4:42:37 | 45.93 | 45.13 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:38 | 46.26 | 45.46 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 4:42:50 | 46.59 | 45.79 | 0 | 1.65 | 1.00 | 0.0 |
| 4/29/2015 4:42:51 | 46.92 | 46.12 | 196 | 1.67 | 1.27 | 10.7 |
| 4/29/2015 4:43:01 | 47.24 | 46.44 | 0 | 1.67 | 1.09 | 0.0 |
| 4/29/2015 4:43:05 | 47.57 | 46.77 | 88 | 1.73 | 1.29 | 4.8 |
| 4/29/2015 4:43:13 | 47.90 | 47.10 | 110 | 1.70 | 1.33 | 6.0 |
| 4/29/2015 4:43:16 | 48.23 | 47.43 | 108 | 1.70 | 1.35 | 5.9 |
| 4/29/2015 4:43:20 | 48.56 | 47.76 | 104 | 1.70 | 1.37 | 5.7 |
| 4/29/2015 4:43:23 | 48.88 | 48.08 | 92 | 1.70 | 1.35 | 5.1 |
| 4/29/2015 4:43:34 | 49.21 | 48.41 | 49 | 1.64 | 1.29 | 2.7 |
| 4/29/2015 4:43:38 | 49.54 | 48.74 | 101 | 1.70 | 1.34 | 5.5 |
| 4/29/2015 4:43:42 | 49.87 | 49.07 | 89 | 1.68 | 1.42 | 4.8 |
| 4/29/2015 4:43:47 | 50.20 | 49.40 | 68 | 1.70 | 1.38 | 3.7 |
| 4/29/2015 4:43:51 | 50.53 | 49.73 | 87 | 1.69 | 1.33 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 4:43:55 | 50.85 | 50.05 | 112 | 1.70 | 1.38 | 6.1 |
| 4/29/2015 | 4:43:59 | 51.18 | 50.38 | 92 | 1.69 | 1.31 | 5.0 |
| 4/29/2015 | 4:44:02 | 51.51 | 50.71 | 102 | 1.68 | 1.30 | 5.6 |
| 4/29/2015 | 4:44:05 | 51.84 | 51.04 | 111 | 1.68 | 1.27 | 6.1 |
| 4/29/2015 | 4:44:09 | 52.17 | 51.37 | 96 | 1.68 | 1.36 | 5.2 |
| 4/29/2015 | 4:44:12 | 52.49 | 51.69 | 103 | 1.66 | 1.26 | 5.6 |
| 4/29/2015 | 4:44:15 | 52.82 | 52.02 | 118 | 1.68 | 1.34 | 6.4 |
| 4/29/2015 | 4:44:20 | 53.15 | 52.35 | 82 | 1.68 | 1.38 | 4.5 |
| 4/29/2015 | 4:44:23 | 53.48 | 52.68 | 93 | 1.69 | 1.37 | 5.1 |
| 4/29/2015 | 4:44:26 | 53.81 | 53.01 | 121 | 1.68 | 1.30 | 6.6 |
| 4/29/2015 | 4:44:30 | 54.13 | 53.33 | 89 | 1.68 | 1.38 | 4.9 |
| 4/29/2015 | 4:44:35 | 54.46 | 53.66 | 78 | 1.68 | 1.42 | 4.3 |
| 4/29/2015 | 4:44:38 | 54.79 | 53.99 | 92 | 1.70 | 1.30 | 5.0 |
| 4/29/2015 | 4:44:45 | 55.12 | 54.32 | 66 | 1.68 | 1.34 | 3.6 |
| 4/29/2015 | 4:44:49 | 55.45 | 54.65 | 76 | 1.68 | 1.42 | 4.1 |
| 4/29/2015 | 4:44:54 | 55.77 | 54.97 | 90 | 1.72 | 1.29 | 4.9 |
| 4/29/2015 | 4:44:55 | 55.89 | 55.09 | 87 | 1.68 | 1.32 | 4.8 |

## I3 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 4:41:21

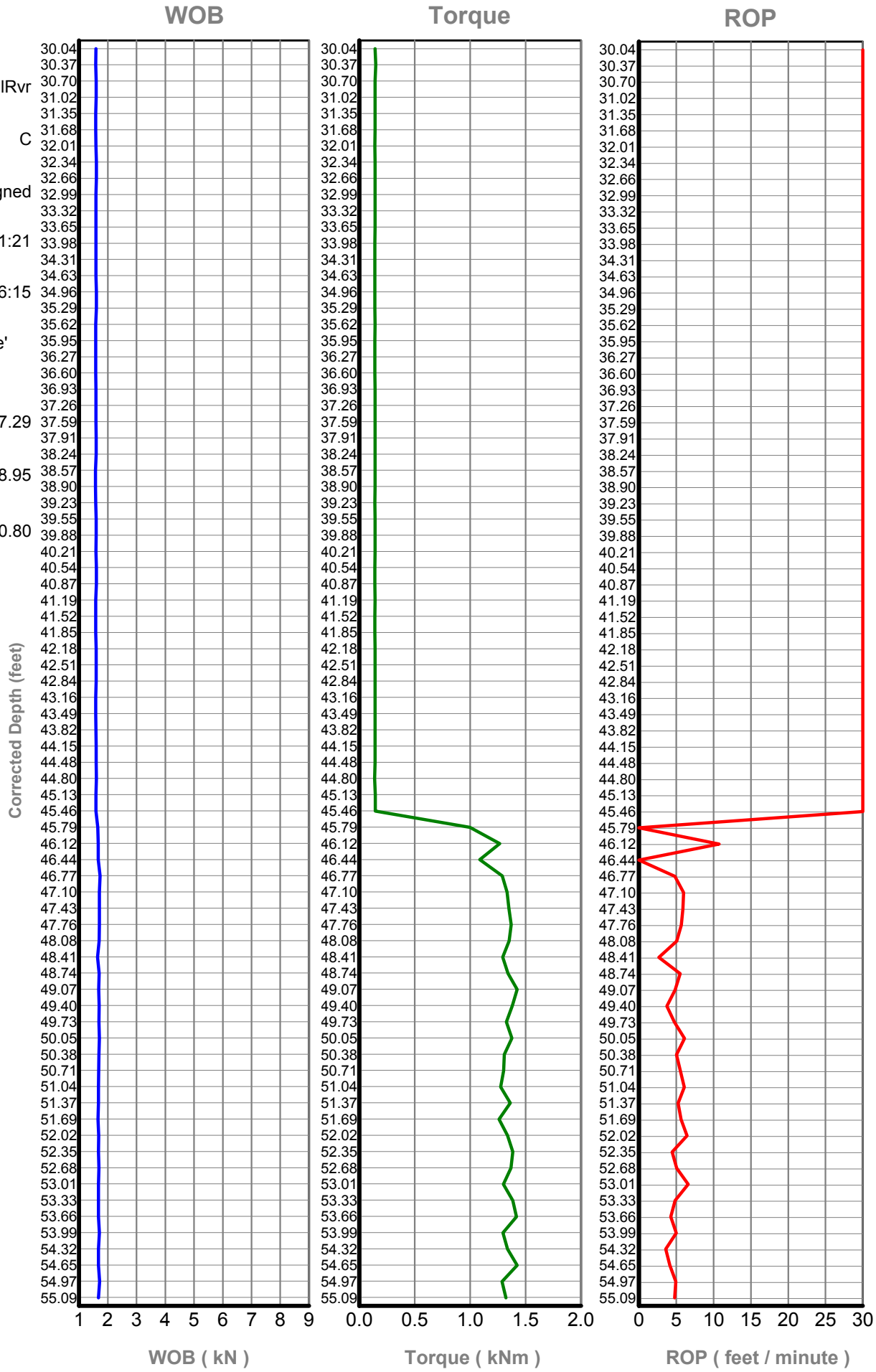
**End Date:**
4/29/2015 4:46:15

**Operator Note:**
'0.8 0.8 c Auto Complete'

**Northing:**
364,457.29

**Easting:**
247,658.95

**Tide (feet):**
0.80



## Hole: I30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:01:28 | 34.12 | 30.22 | 1,094 | 1.63 | 0.14 | 59.8 |
| 4/29/2015 1:01:29 | 34.45 | 30.55 | 1,094 | 1.63 | 0.14 | 59.8 |
| 4/29/2015 1:01:29 | 34.78 | 30.88 | 1,115 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:01:29 | 35.11 | 31.21 | 1,109 | 1.60 | 0.14 | 60.6 |
| 4/29/2015 1:01:30 | 35.43 | 31.53 | 1,109 | 1.60 | 0.14 | 60.6 |
| 4/29/2015 1:01:30 | 35.76 | 31.86 | 1,109 | 1.62 | 0.14 | 60.6 |
| 4/29/2015 1:01:30 | 36.09 | 32.19 | 1,109 | 1.62 | 0.14 | 60.6 |
| 4/29/2015 1:01:30 | 36.42 | 32.52 | 1,129 | 1.62 | 0.14 | 61.7 |
| 4/29/2015 1:01:31 | 36.75 | 32.85 | 1,125 | 1.62 | 0.14 | 61.5 |
| 4/29/2015 1:01:31 | 37.07 | 33.17 | 1,125 | 1.62 | 0.14 | 61.5 |
| 4/29/2015 1:01:32 | 37.40 | 33.50 | 1,137 | 1.62 | 0.14 | 62.2 |
| 4/29/2015 1:01:32 | 37.73 | 33.83 | 1,116 | 1.64 | 0.14 | 61.0 |
| 4/29/2015 1:01:32 | 38.06 | 34.16 | 1,116 | 1.64 | 0.14 | 61.0 |
| 4/29/2015 1:01:33 | 38.39 | 34.49 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:01:33 | 38.71 | 34.81 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:01:33 | 39.04 | 35.14 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:01:34 | 39.37 | 35.47 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:01:34 | 39.70 | 35.80 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:01:34 | 40.03 | 36.13 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:35 | 40.35 | 36.45 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:35 | 40.68 | 36.78 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:35 | 41.01 | 37.11 | 1,095 | 1.62 | 0.14 | 59.9 |
| 4/29/2015 1:01:36 | 41.34 | 37.44 | 1,095 | 1.62 | 0.14 | 59.9 |
| 4/29/2015 1:01:36 | 41.67 | 37.77 | 1,095 | 1.62 | 0.14 | 59.9 |
| 4/29/2015 1:01:36 | 41.99 | 38.09 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:37 | 42.32 | 38.42 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:37 | 42.65 | 38.75 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:37 | 42.98 | 39.08 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/29/2015 1:01:37 | 43.31 | 39.41 | 1,106 | 1.65 | 0.14 | 60.5 |
| 4/29/2015 1:01:38 | 43.64 | 39.74 | 1,106 | 1.62 | 0.14 | 60.5 |
| 4/29/2015 1:01:38 | 43.96 | 40.06 | 1,106 | 1.62 | 0.14 | 60.5 |
| 4/29/2015 1:01:38 | 44.29 | 40.39 | 1,125 | 1.63 | 0.14 | 61.5 |
| 4/29/2015 1:01:38 | 44.62 | 40.72 | 1,125 | 1.63 | 0.14 | 61.5 |
| 4/29/2015 1:01:39 | 44.95 | 41.05 | 1,125 | 1.63 | 0.14 | 61.5 |
| 4/29/2015 1:01:39 | 45.28 | 41.38 | 1,128 | 1.62 | 0.14 | 61.7 |
| 4/29/2015 1:01:40 | 45.60 | 41.70 | 1,128 | 1.62 | 0.14 | 61.7 |
| 4/29/2015 1:01:40 | 45.93 | 42.03 | 1,118 | 1.61 | 0.14 | 61.1 |
| 4/29/2015 1:01:40 | 46.26 | 42.36 | 1,119 | 1.61 | 0.14 | 61.2 |
| 4/29/2015 1:01:41 | 46.59 | 42.69 | 1,119 | 1.61 | 0.14 | 61.2 |
| 4/29/2015 1:01:41 | 46.92 | 43.02 | 1,123 | 1.61 | 0.14 | 61.4 |
| 4/29/2015 1:01:42 | 47.24 | 43.34 | 1,123 | 1.61 | 0.14 | 61.4 |
| 4/29/2015 1:01:41 | 47.57 | 43.67 | 1,077 | 1.62 | 0.14 | 58.9 |
| 4/29/2015 1:01:42 | 47.90 | 44.00 | 1,077 | 1.63 | 0.14 | 58.9 |
| 4/29/2015 1:01:42 | 48.23 | 44.33 | 1,077 | 1.63 | 0.14 | 58.9 |
| 4/29/2015 1:01:43 | 48.56 | 44.66 | 1,096 | 1.62 | 0.14 | 59.9 |
| 4/29/2015 1:01:43 | 48.88 | 44.98 | 1,052 | 1.66 | 0.14 | 57.5 |
| 4/29/2015 1:01:59 | 49.21 | 45.31 | 67 | 1.58 | 1.14 | 3.6 |
| 4/29/2015 1:02:00 | 49.54 | 45.64 | 207 | 1.60 | 1.22 | 11.3 |
| 4/29/2015 1:02:07 | 49.87 | 45.97 | 80 | 1.62 | 1.25 | 4.4 |
| 4/29/2015 1:02:10 | 50.20 | 46.30 | 95 | 1.66 | 1.20 | 5.2 |
| 4/29/2015 1:02:14 | 50.53 | 46.63 | 107 | 1.64 | 1.36 | 5.9 |
| 4/29/2015 1:02:21 | 50.85 | 46.95 | 37 | 1.67 | 1.23 | 2.0 |
| 4/29/2015 1:02:32 | 51.18 | 47.28 | 28 | 1.68 | 1.22 | 1.5 |
| 4/29/2015 1:02:40 | 51.51 | 47.61 | 58 | 1.69 | 1.28 | 3.1 |
| 4/29/2015 1:02:44 | 51.73 | 47.83 | 52 | 1.68 | 1.32 | 2.8 |

## I30 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:00:12

**End Date:**
4/29/2015 1:04:25

**Operator Note:**
'3.9 4.0 c Auto Complete'

**Northing:**
364,478.80

**Easting:**
247,921.79

**Tide (feet):**
3.90



## Hole: I31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:43:50 | 35.43 | 30.23 | 742 | 1.07 | 0.20 | 40.6 |
| 4/28/2015 23:43:50 | 35.76 | 30.56 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:43:51 | 36.09 | 30.89 | 739 | 1.06 | 0.20 | 40.4 |
| 4/28/2015 23:43:51 | 36.42 | 31.22 | 747 | 1.08 | 0.19 | 40.8 |
| 4/28/2015 23:43:52 | 36.75 | 31.55 | 747 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:43:52 | 37.07 | 31.87 | 747 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:43:52 | 37.40 | 32.20 | 754 | 1.07 | 0.19 | 41.2 |
| 4/28/2015 23:43:53 | 37.73 | 32.53 | 744 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:43:53 | 38.06 | 32.86 | 764 | 1.06 | 0.19 | 41.8 |
| 4/28/2015 23:43:54 | 38.39 | 33.19 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:43:55 | 38.71 | 33.51 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:43:55 | 39.04 | 33.84 | 744 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:43:56 | 39.37 | 34.17 | 744 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:43:56 | 39.70 | 34.50 | 743 | 1.06 | 0.19 | 40.6 |
| 4/28/2015 23:43:57 | 40.03 | 34.83 | 743 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:43:57 | 40.35 | 35.15 | 743 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:43:57 | 40.68 | 35.48 | 754 | 1.07 | 0.19 | 41.2 |
| 4/28/2015 23:43:58 | 41.01 | 35.81 | 749 | 1.09 | 0.19 | 41.0 |
| 4/28/2015 23:43:58 | 41.34 | 36.14 | 770 | 1.08 | 0.19 | 42.1 |
| 4/28/2015 23:43:59 | 41.67 | 36.47 | 758 | 1.07 | 0.19 | 41.5 |
| 4/28/2015 23:43:59 | 41.99 | 36.79 | 761 | 1.07 | 0.19 | 41.6 |
| 4/28/2015 23:44:00 | 42.32 | 37.12 | 753 | 1.05 | 0.19 | 41.2 |
| 4/28/2015 23:44:00 | 42.65 | 37.45 | 738 | 1.08 | 0.19 | 40.4 |
| 4/28/2015 23:44:01 | 42.98 | 37.78 | 738 | 1.08 | 0.19 | 40.4 |
| 4/28/2015 23:44:01 | 43.31 | 38.11 | 759 | 1.07 | 0.19 | 41.5 |
| 4/28/2015 23:44:02 | 43.64 | 38.44 | 754 | 1.07 | 0.19 | 41.2 |
| 4/28/2015 23:44:02 | 43.96 | 38.76 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:44:03 | 44.29 | 39.09 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:44:03 | 44.62 | 39.42 | 737 | 1.07 | 0.18 | 40.3 |
| 4/28/2015 23:44:03 | 44.95 | 39.75 | 752 | 1.07 | 0.19 | 41.1 |
| 4/28/2015 23:44:04 | 45.28 | 40.08 | 752 | 1.06 | 0.19 | 41.1 |
| 4/28/2015 23:44:04 | 45.60 | 40.40 | 757 | 1.07 | 0.19 | 41.4 |
| 4/28/2015 23:44:05 | 45.93 | 40.73 | 745 | 1.09 | 0.19 | 40.8 |
| 4/28/2015 23:44:05 | 46.26 | 41.06 | 746 | 1.07 | 0.19 | 40.8 |
| 4/28/2015 23:44:06 | 46.59 | 41.39 | 757 | 1.07 | 0.19 | 41.4 |
| 4/28/2015 23:44:07 | 46.92 | 41.72 | 759 | 1.07 | 0.19 | 41.5 |
| 4/28/2015 23:44:07 | 47.24 | 42.04 | 745 | 1.07 | 0.19 | 40.7 |
| 4/28/2015 23:44:08 | 47.57 | 42.37 | 749 | 1.07 | 0.19 | 41.0 |
| 4/28/2015 23:44:08 | 47.90 | 42.70 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:44:09 | 48.23 | 43.03 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:44:09 | 48.56 | 43.36 | 727 | 1.05 | 0.20 | 39.7 |
| 4/28/2015 23:44:09 | 48.88 | 43.68 | 727 | 1.07 | 0.19 | 39.7 |
| 4/28/2015 23:44:10 | 49.21 | 44.01 | 737 | 1.09 | 0.11 | 40.3 |
| 4/28/2015 23:44:10 | 49.54 | 44.34 | 741 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:44:11 | 49.87 | 44.67 | 738 | 1.08 | 0.19 | 40.4 |
| 4/28/2015 23:44:11 | 50.20 | 45.00 | 742 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:44:12 | 50.53 | 45.33 | 758 | 1.07 | 0.19 | 41.4 |
| 4/28/2015 23:44:12 | 50.85 | 45.65 | 743 | 1.14 | 0.19 | 40.6 |
| 4/28/2015 23:44:26 | 51.18 | 45.98 | 91 | 1.15 | 1.09 | 5.0 |
| 4/28/2015 23:44:33 | 51.51 | 46.31 | 30 | 1.07 | 1.25 | 1.7 |
| 4/28/2015 23:44:34 | 51.84 | 46.64 | 121 | 1.12 | 1.14 | 6.6 |
| 4/28/2015 23:44:40 | 52.17 | 46.97 | 66 | 1.10 | 1.30 | 3.6 |
| 4/28/2015 23:44:45 | 52.49 | 47.29 | 65 | 1.02 | 1.09 | 3.6 |
| 4/28/2015 23:44:50 | 52.82 | 47.62 | 68 | 1.12 | 1.31 | 3.7 |
| 4/28/2015 23:44:57 | 53.15 | 47.95 | 49 | 1.06 | 1.09 | 2.7 |
| 4/28/2015 23:45:03 | 53.48 | 48.28 | 58 | 1.02 | 1.24 | 3.2 |
| 4/28/2015 23:45:04 | 53.60 | 48.40 | 81 | 1.13 | 1.25 | 4.4 |

## I31 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:41:36

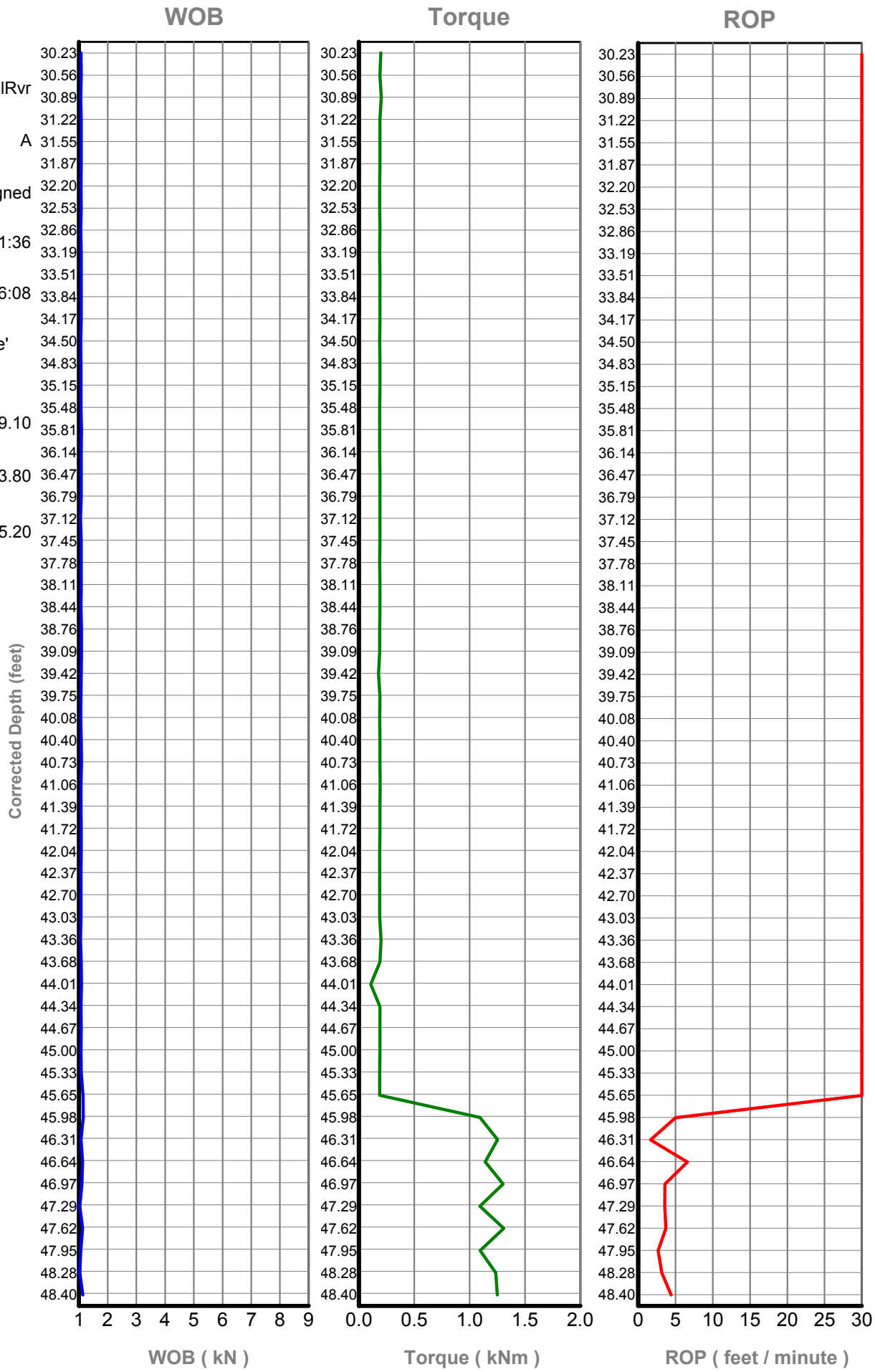
**End Date:**
4/28/2015 23:46:08

**Operator Note:**
'5.2 5.4 b Auto Complete'

**Northing:**
364,529.10

**Easting:**
247,983.80

**Tide (feet):**
5.20



## Hole: I32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:44:49 | 35.43 | 30.23 | 1,146 | 0.32 | 0.36 | 62.7 |
| 4/28/2015 23:44:49 | 35.76 | 30.56 | 1,138 | 0.32 | 0.36 | 62.2 |
| 4/28/2015 23:44:49 | 36.09 | 30.89 | 1,138 | 0.32 | 0.36 | 62.2 |
| 4/28/2015 23:44:49 | 36.42 | 31.22 | 1,126 | 0.32 | 0.36 | 61.6 |
| 4/28/2015 23:44:50 | 36.75 | 31.55 | 1,132 | 0.32 | 0.36 | 61.9 |
| 4/28/2015 23:44:50 | 37.07 | 31.87 | 1,132 | 0.32 | 0.36 | 61.9 |
| 4/28/2015 23:44:51 | 37.40 | 32.20 | 1,157 | 0.32 | 0.37 | 63.3 |
| 4/28/2015 23:44:51 | 37.73 | 32.53 | 1,157 | 0.32 | 0.37 | 63.3 |
| 4/28/2015 23:44:51 | 38.06 | 32.86 | 1,108 | 0.32 | 0.36 | 60.6 |
| 4/28/2015 23:44:52 | 38.39 | 33.19 | 1,108 | 0.31 | 0.36 | 60.6 |
| 4/28/2015 23:44:52 | 38.71 | 33.51 | 1,108 | 0.31 | 0.36 | 60.6 |
| 4/28/2015 23:44:52 | 39.04 | 33.84 | 1,130 | 0.32 | 0.36 | 61.8 |
| 4/28/2015 23:44:53 | 39.37 | 34.17 | 1,130 | 0.32 | 0.36 | 61.8 |
| 4/28/2015 23:44:53 | 39.70 | 34.50 | 1,137 | 0.32 | 0.37 | 62.2 |
| 4/28/2015 23:44:53 | 40.03 | 34.83 | 1,134 | 0.32 | 0.36 | 62.0 |
| 4/28/2015 23:44:54 | 40.35 | 35.15 | 1,134 | 0.32 | 0.36 | 62.0 |
| 4/28/2015 23:44:54 | 40.68 | 35.48 | 1,106 | 0.32 | 0.37 | 60.5 |
| 4/28/2015 23:44:54 | 41.01 | 35.81 | 1,106 | 0.32 | 0.37 | 60.5 |
| 4/28/2015 23:44:54 | 41.34 | 36.14 | 1,106 | 0.33 | 0.36 | 60.5 |
| 4/28/2015 23:44:55 | 41.67 | 36.47 | 1,159 | 0.32 | 0.36 | 63.4 |
| 4/28/2015 23:44:55 | 41.99 | 36.79 | 1,159 | 0.32 | 0.36 | 63.4 |
| 4/28/2015 23:44:55 | 42.32 | 37.12 | 1,132 | 0.32 | 0.36 | 61.9 |
| 4/28/2015 23:44:56 | 42.65 | 37.45 | 1,132 | 0.32 | 0.36 | 61.9 |
| 4/28/2015 23:44:56 | 42.98 | 37.78 | 1,135 | 0.32 | 0.37 | 62.1 |
| 4/28/2015 23:44:56 | 43.31 | 38.11 | 1,138 | 0.32 | 0.37 | 62.2 |
| 4/28/2015 23:44:57 | 43.64 | 38.44 | 1,138 | 0.32 | 0.37 | 62.2 |
| 4/28/2015 23:44:57 | 43.96 | 38.76 | 1,159 | 0.32 | 0.37 | 63.4 |
| 4/28/2015 23:44:57 | 44.29 | 39.09 | 1,159 | 0.32 | 0.37 | 63.4 |
| 4/28/2015 23:44:57 | 44.62 | 39.42 | 1,148 | 0.32 | 0.36 | 62.8 |
| 4/28/2015 23:44:58 | 44.95 | 39.75 | 1,148 | 0.32 | 0.35 | 62.8 |
| 4/28/2015 23:44:58 | 45.28 | 40.08 | 1,148 | 0.32 | 0.35 | 62.8 |
| 4/28/2015 23:44:58 | 45.60 | 40.40 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:44:59 | 45.93 | 40.73 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:44:59 | 46.26 | 41.06 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/28/2015 23:44:59 | 46.59 | 41.39 | 1,156 | 0.32 | 0.37 | 63.2 |
| 4/28/2015 23:45:00 | 46.92 | 41.72 | 1,156 | 0.32 | 0.37 | 63.2 |
| 4/28/2015 23:45:00 | 47.24 | 42.04 | 1,150 | 0.31 | 0.36 | 62.9 |
| 4/28/2015 23:45:00 | 47.57 | 42.37 | 1,150 | 0.31 | 0.36 | 62.9 |
| 4/28/2015 23:45:00 | 47.90 | 42.70 | 1,159 | 0.32 | 0.37 | 63.4 |
| 4/28/2015 23:45:01 | 48.23 | 43.03 | 1,156 | 0.33 | 0.36 | 63.2 |
| 4/28/2015 23:45:01 | 48.56 | 43.36 | 1,156 | 0.33 | 0.36 | 63.2 |
| 4/28/2015 23:45:01 | 48.88 | 43.68 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:45:02 | 49.21 | 44.01 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:45:02 | 49.54 | 44.34 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:45:03 | 49.87 | 44.67 | 1,153 | 0.32 | 0.36 | 63.1 |
| 4/28/2015 23:45:03 | 50.20 | 45.00 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/28/2015 23:45:03 | 50.53 | 45.33 | 1,150 | 0.29 | 0.42 | 62.9 |
| 4/28/2015 23:45:07 | 50.85 | 45.65 | 12 | 2.67 | 0.46 | 0.6 |
| 4/28/2015 23:45:09 | 51.18 | 45.98 | 173 | 3.51 | 0.45 | 9.5 |
| 4/28/2015 23:45:10 | 51.51 | 46.31 | 228 | 7.57 | 0.46 | 12.5 |
| 4/28/2015 23:45:13 | 51.84 | 46.64 | 122 | 3.29 | 0.41 | 6.7 |
| 4/28/2015 23:45:14 | 52.17 | 46.97 | 173 | 3.06 | 0.40 | 9.5 |
| 4/28/2015 23:45:18 | 52.49 | 47.29 | 64 | 2.61 | 0.42 | 3.5 |
| 4/28/2015 23:45:18 | 52.82 | 47.62 | 170 | 3.89 | 0.45 | 9.3 |
| 4/28/2015 23:45:21 | 53.15 | 47.95 | 187 | 3.89 | 0.47 | 10.2 |
| 4/28/2015 23:45:27 | 53.48 | 48.28 | 40 | 5.02 | 0.47 | 2.2 |
| 4/28/2015 23:45:30 | 53.81 | 48.61 | 96 | 4.30 | 0.43 | 5.2 |
| 4/28/2015 23:45:31 | 54.13 | 48.93 | 207 | 3.42 | 0.45 | 11.3 |
| 4/28/2015 23:45:34 | 54.46 | 49.26 | 226 | 3.44 | 0.45 | 12.3 |
| 4/28/2015 23:45:36 | 54.79 | 49.59 | 168 | 3.18 | 0.44 | 9.2 |
| 4/28/2015 23:45:40 | 55.12 | 49.92 | 55 | 3.06 | 0.45 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:45:44 | 55.45 | 50.25 | 105 | 3.22 | 0.45 | 5.8 |
| 4/28/2015 | 23:45:50 | 55.77 | 50.57 | 52 | 3.49 | 0.46 | 2.8 |
| 4/28/2015 | 23:45:55 | 56.10 | 50.90 | 70 | 3.59 | 0.47 | 3.8 |
| 4/28/2015 | 23:45:58 | 56.43 | 51.23 | 104 | 2.95 | 0.46 | 5.7 |
| 4/28/2015 | 23:46:05 | 56.76 | 51.56 | 55 | 3.01 | 0.45 | 3.0 |
| 4/28/2015 | 23:46:11 | 57.09 | 51.89 | 53 | 3.35 | 0.46 | 2.9 |
| 4/28/2015 | 23:46:18 | 57.41 | 52.21 | 56 | 3.28 | 0.46 | 3.1 |
| 4/28/2015 | 23:46:21 | 57.60 | 52.40 | 52 | 4.02 | 0.47 | 2.9 |

## I32 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:43:09

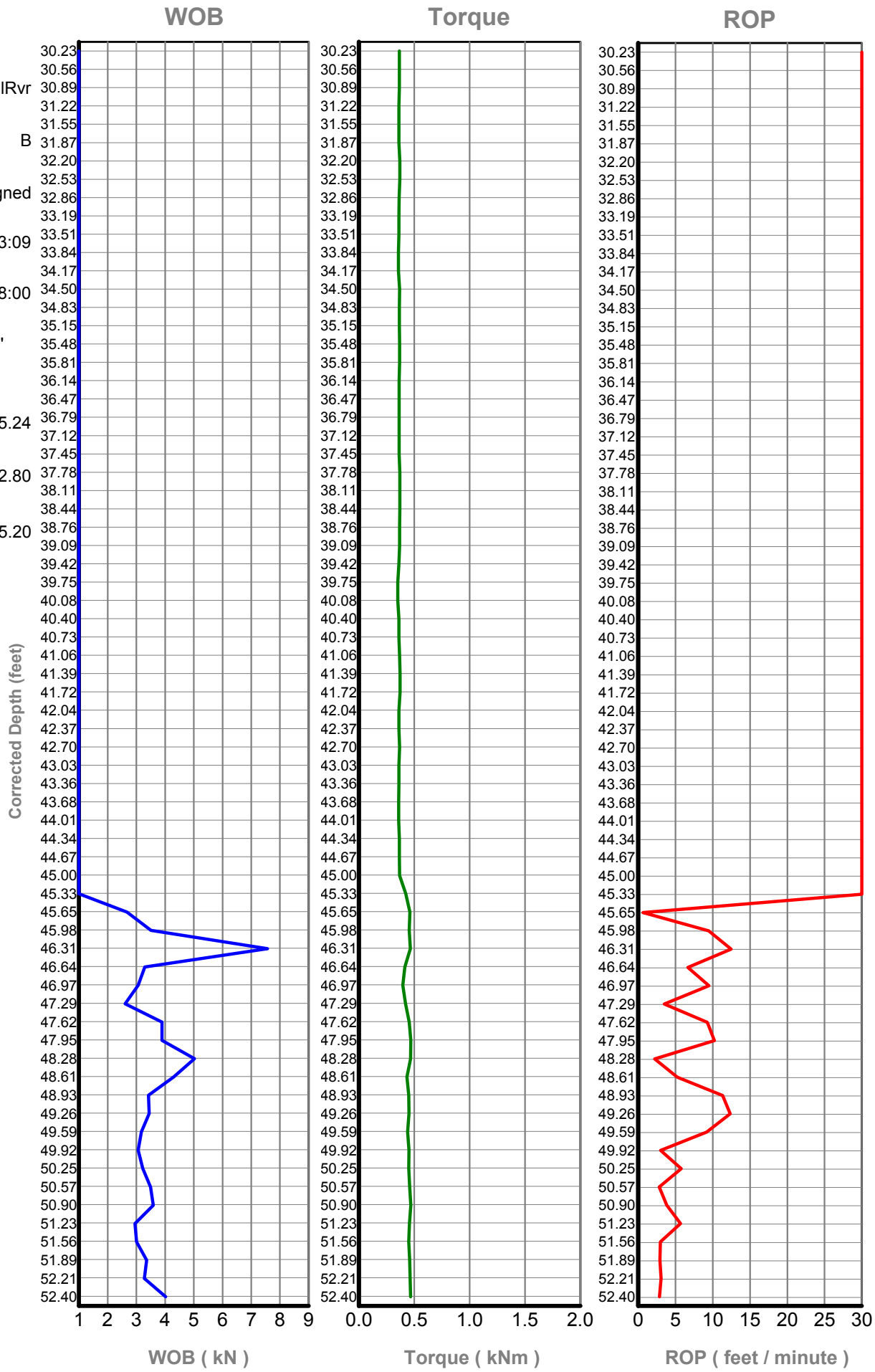
**End Date:**
4/28/2015 23:48:00

**Operator Note:**
'5.2 5.4b Auto Complete'

**Northing:**
364,575.24

**Easting:**
248,042.80

**Tide (feet):**
5.20



## Hole: I33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:43:46 | 35.43 | 30.23 | 1,121 | 1.56 | 0.13 | 61.3 |
| 4/28/2015 23:43:46 | 35.76 | 30.56 | 1,127 | 1.59 | 0.13 | 61.7 |
| 4/28/2015 23:43:47 | 36.09 | 30.89 | 1,127 | 1.59 | 0.13 | 61.7 |
| 4/28/2015 23:43:47 | 36.42 | 31.22 | 1,118 | 1.56 | 0.13 | 61.1 |
| 4/28/2015 23:43:47 | 36.75 | 31.55 | 1,125 | 1.56 | 0.13 | 61.5 |
| 4/28/2015 23:43:48 | 37.07 | 31.87 | 1,125 | 1.56 | 0.13 | 61.5 |
| 4/28/2015 23:43:48 | 37.40 | 32.20 | 1,112 | 1.56 | 0.13 | 60.8 |
| 4/28/2015 23:43:48 | 37.73 | 32.53 | 1,112 | 1.56 | 0.13 | 60.8 |
| 4/28/2015 23:43:48 | 38.06 | 32.86 | 1,112 | 1.57 | 0.13 | 60.8 |
| 4/28/2015 23:43:49 | 38.39 | 33.19 | 1,125 | 1.55 | 0.13 | 61.5 |
| 4/28/2015 23:43:49 | 38.71 | 33.51 | 1,125 | 1.55 | 0.13 | 61.5 |
| 4/28/2015 23:43:49 | 39.04 | 33.84 | 1,116 | 1.57 | 0.13 | 61.0 |
| 4/28/2015 23:43:50 | 39.37 | 34.17 | 1,122 | 1.55 | 0.13 | 61.4 |
| 4/28/2015 23:43:50 | 39.70 | 34.50 | 1,122 | 1.55 | 0.13 | 61.4 |
| 4/28/2015 23:43:50 | 40.03 | 34.83 | 1,116 | 1.57 | 0.13 | 61.0 |
| 4/28/2015 23:43:51 | 40.35 | 35.15 | 1,116 | 1.57 | 0.13 | 61.0 |
| 4/28/2015 23:43:51 | 40.68 | 35.48 | 1,135 | 1.57 | 0.13 | 62.0 |
| 4/28/2015 23:43:52 | 41.01 | 35.81 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:52 | 41.34 | 36.14 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:52 | 41.67 | 36.47 | 1,125 | 1.55 | 0.13 | 61.5 |
| 4/28/2015 23:43:53 | 41.99 | 36.79 | 1,125 | 1.55 | 0.13 | 61.5 |
| 4/28/2015 23:43:53 | 42.32 | 37.12 | 1,125 | 1.56 | 0.13 | 61.5 |
| 4/28/2015 23:43:53 | 42.65 | 37.45 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:54 | 42.98 | 37.78 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:54 | 43.31 | 38.11 | 1,116 | 1.57 | 0.13 | 61.0 |
| 4/28/2015 23:43:54 | 43.64 | 38.44 | 1,109 | 1.56 | 0.13 | 60.7 |
| 4/28/2015 23:43:55 | 43.96 | 38.76 | 1,109 | 1.56 | 0.13 | 60.7 |
| 4/28/2015 23:43:55 | 44.29 | 39.09 | 1,116 | 1.58 | 0.13 | 61.0 |
| 4/28/2015 23:43:55 | 44.62 | 39.42 | 1,116 | 1.58 | 0.13 | 61.0 |
| 4/28/2015 23:43:55 | 44.95 | 39.75 | 1,113 | 1.57 | 0.13 | 60.9 |
| 4/28/2015 23:43:56 | 45.28 | 40.08 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/28/2015 23:43:56 | 45.60 | 40.40 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/28/2015 23:43:56 | 45.93 | 40.73 | 1,107 | 1.57 | 0.13 | 60.5 |
| 4/28/2015 23:43:57 | 46.26 | 41.06 | 1,107 | 1.57 | 0.13 | 60.5 |
| 4/28/2015 23:43:57 | 46.59 | 41.39 | 1,123 | 1.57 | 0.13 | 61.4 |
| 4/28/2015 23:43:57 | 46.92 | 41.72 | 1,116 | 1.58 | 0.13 | 61.0 |
| 4/28/2015 23:43:58 | 47.24 | 42.04 | 1,116 | 1.58 | 0.13 | 61.0 |
| 4/28/2015 23:43:58 | 47.57 | 42.37 | 1,116 | 1.56 | 0.14 | 61.0 |
| 4/28/2015 23:43:58 | 47.90 | 42.70 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/28/2015 23:43:59 | 48.23 | 43.03 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/28/2015 23:43:59 | 48.56 | 43.36 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:59 | 48.88 | 43.68 | 1,122 | 1.57 | 0.13 | 61.3 |
| 4/28/2015 23:43:59 | 49.21 | 44.01 | 1,116 | 1.57 | 0.13 | 61.0 |
| 4/28/2015 23:44:00 | 49.54 | 44.34 | 1,113 | 1.57 | 0.13 | 60.9 |
| 4/28/2015 23:44:01 | 49.87 | 44.67 | 1,113 | 1.57 | 0.13 | 60.9 |
| 4/28/2015 23:44:01 | 50.20 | 45.00 | 1,094 | 1.59 | 0.13 | 59.8 |
| 4/28/2015 23:44:01 | 50.53 | 45.33 | 1,094 | 1.59 | 0.13 | 59.8 |
| 4/28/2015 23:44:01 | 50.85 | 45.65 | 1,079 | 1.55 | 0.13 | 59.0 |
| 4/28/2015 23:44:02 | 51.18 | 45.98 | 1,079 | 1.57 | 0.13 | 59.0 |
| 4/28/2015 23:44:02 | 51.51 | 46.31 | 1,079 | 1.57 | 0.13 | 59.0 |
| 4/28/2015 23:44:02 | 51.84 | 46.64 | 1,087 | 1.69 | 0.13 | 59.5 |
| 4/28/2015 23:44:17 | 52.17 | 46.97 | 0 | 1.57 | 0.85 | 0.0 |
| 4/28/2015 23:44:19 | 52.49 | 47.29 | 209 | 1.63 | 1.02 | 11.4 |
| 4/28/2015 23:44:24 | 52.82 | 47.62 | 40 | 1.59 | 1.20 | 2.2 |
| 4/28/2015 23:44:28 | 53.15 | 47.95 | 80 | 1.63 | 1.35 | 4.4 |
| 4/28/2015 23:44:34 | 53.48 | 48.28 | 72 | 1.66 | 1.34 | 4.0 |
| 4/28/2015 23:44:39 | 53.81 | 48.61 | 70 | 1.62 | 1.37 | 3.8 |
| 4/28/2015 23:44:43 | 54.13 | 48.93 | 88 | 1.62 | 1.33 | 4.8 |
| 4/28/2015 23:44:47 | 54.46 | 49.26 | 95 | 1.65 | 1.36 | 5.2 |
| 4/28/2015 23:44:51 | 54.79 | 49.59 | 71 | 1.61 | 1.27 | 3.9 |
| 4/28/2015 23:44:57 | 55.12 | 49.92 | 69 | 1.64 | 1.25 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:45:01 | 55.45 | 50.25 | 78 | 1.59 | 1.37 | 4.2 |
| 4/28/2015 | 23:45:06 | 55.77 | 50.57 | 91 | 1.65 | 1.40 | 5.0 |
| 4/28/2015 | 23:45:14 | 56.10 | 50.90 | 72 | 1.65 | 1.50 | 3.9 |
| 4/28/2015 | 23:45:35 | 56.43 | 51.23 | 20 | 1.62 | 1.26 | 1.1 |
| 4/28/2015 | 23:45:39 | 56.76 | 51.56 | 90 | 1.62 | 1.23 | 4.9 |
| 4/28/2015 | 23:45:43 | 57.09 | 51.89 | 78 | 1.63 | 1.27 | 4.3 |
| 4/28/2015 | 23:45:49 | 57.41 | 52.21 | 71 | 1.64 | 1.19 | 3.9 |
| 4/28/2015 | 23:45:54 | 57.74 | 52.54 | 72 | 1.62 | 1.25 | 3.9 |
| 4/28/2015 | 23:45:59 | 58.07 | 52.87 | 66 | 1.63 | 1.26 | 3.6 |
| 4/28/2015 | 23:46:04 | 58.40 | 53.20 | 72 | 1.63 | 1.29 | 3.9 |
| 4/28/2015 | 23:46:08 | 58.73 | 53.53 | 90 | 1.64 | 1.41 | 4.9 |
| 4/28/2015 | 23:46:13 | 59.06 | 53.86 | 76 | 1.66 | 1.22 | 4.2 |
| 4/28/2015 | 23:46:19 | 59.38 | 54.18 | 60 | 1.64 | 1.26 | 3.3 |
| 4/28/2015 | 23:46:24 | 59.71 | 54.51 | 62 | 1.64 | 1.25 | 3.4 |
| 4/28/2015 | 23:46:30 | 60.04 | 54.84 | 65 | 1.62 | 1.22 | 3.5 |
| 4/28/2015 | 23:46:34 | 60.37 | 55.17 | 81 | 1.64 | 1.20 | 4.4 |
| 4/28/2015 | 23:46:35 | 60.44 | 55.24 | 64 | 1.61 | 1.28 | 3.5 |

## I33 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:42:34

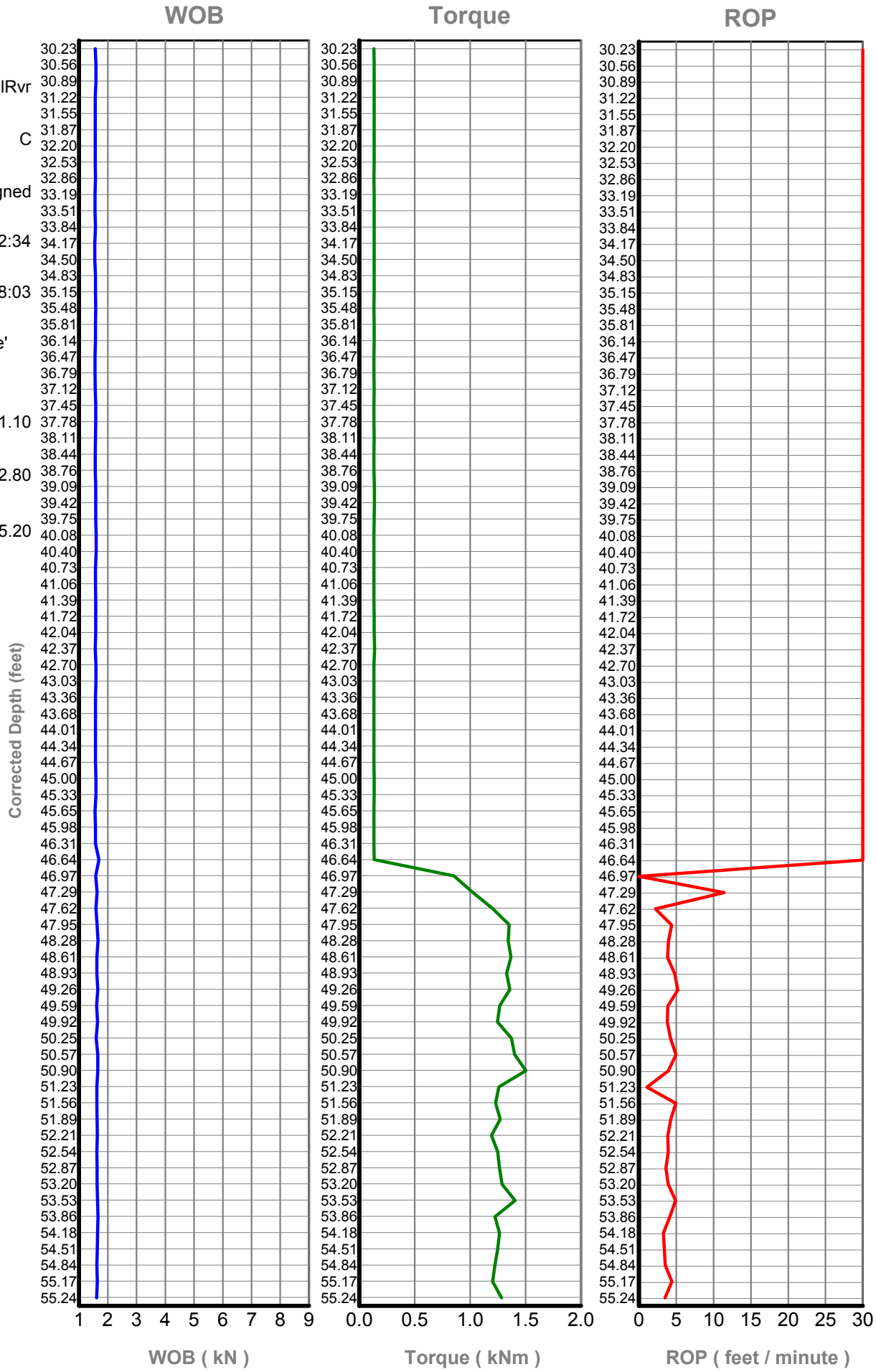
**End Date:**
4/28/2015 23:48:03

**Operator Note:**
'5.2 5.4 c Auto Complete'

**Northing:**
364,621.10

**Easting:**
248,102.80

**Tide (feet):**
5.20



## Hole: I34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:38:47 | 31.82 | 30.32 | 713 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 16:38:47 | 32.15 | 30.65 | 733 | 1.08 | 0.20 | 40.1 |
| 4/27/2015 16:38:48 | 32.48 | 30.98 | 719 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 16:38:48 | 32.81 | 31.31 | 739 | 1.09 | 0.20 | 40.4 |
| 4/27/2015 16:38:49 | 33.14 | 31.64 | 712 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 16:38:49 | 33.46 | 31.96 | 721 | 1.08 | 0.20 | 39.4 |
| 4/27/2015 16:38:50 | 33.79 | 32.29 | 721 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 16:38:50 | 34.12 | 32.62 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 16:38:51 | 34.45 | 32.95 | 715 | 1.09 | 0.20 | 39.1 |
| 4/27/2015 16:38:51 | 34.78 | 33.28 | 734 | 1.09 | 0.20 | 40.1 |
| 4/27/2015 16:38:52 | 35.11 | 33.61 | 749 | 1.08 | 0.20 | 41.0 |
| 4/27/2015 16:38:52 | 35.43 | 33.93 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:38:53 | 35.76 | 34.26 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:38:53 | 36.09 | 34.59 | 746 | 1.09 | 0.20 | 40.8 |
| 4/27/2015 16:38:54 | 36.42 | 34.92 | 751 | 1.09 | 0.20 | 41.1 |
| 4/27/2015 16:38:54 | 36.75 | 35.25 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:38:55 | 37.07 | 35.57 | 743 | 1.09 | 0.20 | 40.6 |
| 4/27/2015 16:38:55 | 37.40 | 35.90 | 746 | 1.08 | 0.20 | 40.8 |
| 4/27/2015 16:38:56 | 37.73 | 36.23 | 746 | 1.08 | 0.20 | 40.8 |
| 4/27/2015 16:38:56 | 38.06 | 36.56 | 746 | 1.10 | 0.20 | 40.8 |
| 4/27/2015 16:38:57 | 38.39 | 36.89 | 744 | 1.09 | 0.20 | 40.7 |
| 4/27/2015 16:38:57 | 38.71 | 37.21 | 749 | 1.09 | 0.20 | 40.9 |
| 4/27/2015 16:38:58 | 39.04 | 37.54 | 746 | 1.09 | 0.20 | 40.8 |
| 4/27/2015 16:38:58 | 39.37 | 37.87 | 743 | 1.09 | 0.20 | 40.6 |
| 4/27/2015 16:38:59 | 39.70 | 38.20 | 743 | 1.11 | 0.20 | 40.6 |
| 4/27/2015 16:38:59 | 40.03 | 38.53 | 743 | 1.11 | 0.20 | 40.6 |
| 4/27/2015 16:38:59 | 40.35 | 38.85 | 743 | 1.09 | 0.20 | 40.6 |
| 4/27/2015 16:39:00 | 40.68 | 39.18 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:39:00 | 41.01 | 39.51 | 740 | 1.08 | 0.20 | 40.5 |
| 4/27/2015 16:39:01 | 41.34 | 39.84 | 735 | 1.12 | 0.20 | 40.2 |
| 4/27/2015 16:39:01 | 41.67 | 40.17 | 743 | 1.09 | 0.20 | 40.6 |
| 4/27/2015 16:39:02 | 41.99 | 40.49 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:39:02 | 42.32 | 40.82 | 740 | 1.09 | 0.20 | 40.5 |
| 4/27/2015 16:39:03 | 42.65 | 41.15 | 740 | 1.12 | 0.19 | 40.5 |
| 4/27/2015 16:39:04 | 42.98 | 41.48 | 730 | 1.07 | 0.20 | 39.9 |
| 4/27/2015 16:39:04 | 43.31 | 41.81 | 725 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 16:39:05 | 43.64 | 42.14 | 724 | 1.08 | 0.20 | 39.6 |
| 4/27/2015 16:39:05 | 43.96 | 42.46 | 727 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 16:39:06 | 44.29 | 42.79 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 16:39:06 | 44.62 | 43.12 | 737 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 16:39:06 | 44.95 | 43.45 | 747 | 1.09 | 0.20 | 40.9 |
| 4/27/2015 16:39:07 | 45.28 | 43.78 | 752 | 1.09 | 0.20 | 41.1 |
| 4/27/2015 16:39:07 | 45.60 | 44.10 | 753 | 1.08 | 0.20 | 41.2 |
| 4/27/2015 16:39:08 | 45.93 | 44.43 | 753 | 1.10 | 0.20 | 41.2 |
| 4/27/2015 16:39:08 | 46.26 | 44.76 | 727 | 1.09 | 0.20 | 39.7 |
| 4/27/2015 16:39:09 | 46.59 | 45.09 | 734 | 1.07 | 0.20 | 40.2 |
| 4/27/2015 16:39:09 | 46.92 | 45.42 | 731 | 1.09 | 0.20 | 40.0 |
| 4/27/2015 16:39:10 | 47.24 | 45.74 | 731 | 1.12 | 0.19 | 40.0 |
| 4/27/2015 16:39:22 | 47.57 | 46.07 | 0 | 1.10 | 1.10 | 0.0 |
| 4/27/2015 16:39:26 | 47.90 | 46.40 | 42 | 1.07 | 1.21 | 2.3 |
| 4/27/2015 16:39:28 | 48.23 | 46.73 | 149 | 1.18 | 1.07 | 8.1 |
| 4/27/2015 16:39:31 | 48.56 | 47.06 | 144 | 1.06 | 1.11 | 7.9 |
| 4/27/2015 16:39:38 | 48.88 | 47.38 | 62 | 1.04 | 1.02 | 3.4 |
| 4/27/2015 16:39:42 | 49.21 | 47.71 | 72 | 1.13 | 1.20 | 3.9 |
| 4/27/2015 16:39:50 | 49.54 | 48.04 | 43 | 1.07 | 1.01 | 2.3 |
| 4/27/2015 16:39:58 | 49.87 | 48.37 | 49 | 1.10 | 0.94 | 2.7 |
| 4/27/2015 16:40:03 | 50.04 | 48.54 | 39 | 0.90 | 1.14 | 2.1 |

## I34 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:37:08

**End Date:**
4/27/2015 16:41:48

**Operator Note:**
'1.5 1.3 a Auto Complete'

**Northing:**
364,669.89

**Easting:**
248,162.16

**Tide (feet):**
1.50



## Hole: I35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:38:25 | 31.82 | 30.32 | 1,121 | 0.29 | 0.33 | 61.3 |
| 4/27/2015 16:38:25 | 32.15 | 30.65 | 1,115 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 16:38:26 | 32.48 | 30.98 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 16:38:26 | 32.81 | 31.31 | 1,122 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 16:38:26 | 33.14 | 31.64 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 16:38:27 | 33.46 | 31.96 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 16:38:27 | 33.79 | 32.29 | 1,116 | 0.28 | 0.31 | 61.0 |
| 4/27/2015 16:38:27 | 34.12 | 32.62 | 1,116 | 0.30 | 0.32 | 61.0 |
| 4/27/2015 16:38:28 | 34.45 | 32.95 | 1,116 | 0.30 | 0.32 | 61.0 |
| 4/27/2015 16:38:28 | 34.78 | 33.28 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 16:38:29 | 35.11 | 33.61 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 16:38:29 | 35.43 | 33.93 | 1,116 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 16:38:29 | 35.76 | 34.26 | 1,113 | 0.29 | 0.33 | 60.9 |
| 4/27/2015 16:38:30 | 36.09 | 34.59 | 1,113 | 0.29 | 0.33 | 60.9 |
| 4/27/2015 16:38:30 | 36.42 | 34.92 | 1,103 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 16:38:30 | 36.75 | 35.25 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 16:38:31 | 37.07 | 35.57 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 16:38:31 | 37.40 | 35.90 | 1,110 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 16:38:31 | 37.73 | 36.23 | 1,110 | 0.29 | 0.32 | 60.7 |
| 4/27/2015 16:38:31 | 38.06 | 36.56 | 1,107 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 16:38:32 | 38.39 | 36.89 | 1,110 | 0.26 | 0.32 | 60.7 |
| 4/27/2015 16:38:32 | 38.71 | 37.21 | 1,110 | 0.26 | 0.32 | 60.7 |
| 4/27/2015 16:38:32 | 39.04 | 37.54 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 16:38:33 | 39.37 | 37.87 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 16:38:33 | 39.70 | 38.20 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 16:38:33 | 40.03 | 38.53 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 16:38:34 | 40.35 | 38.85 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 16:38:34 | 40.68 | 39.18 | 1,103 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 16:38:34 | 41.01 | 39.51 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/27/2015 16:38:35 | 41.34 | 39.84 | 1,110 | 0.28 | 0.31 | 60.7 |
| 4/27/2015 16:38:35 | 41.67 | 40.17 | 1,110 | 0.28 | 0.33 | 60.7 |
| 4/27/2015 16:38:35 | 41.99 | 40.49 | 1,110 | 0.28 | 0.33 | 60.7 |
| 4/27/2015 16:38:35 | 42.32 | 40.82 | 1,110 | 0.27 | 0.32 | 60.7 |
| 4/27/2015 16:38:36 | 42.65 | 41.15 | 1,085 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 16:38:37 | 42.98 | 41.48 | 1,085 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 16:38:36 | 43.31 | 41.81 | 1,085 | 0.27 | 0.32 | 59.3 |
| 4/27/2015 16:38:37 | 43.64 | 42.14 | 1,085 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 16:38:37 | 43.96 | 42.46 | 1,085 | 0.28 | 0.32 | 59.3 |
| 4/27/2015 16:38:37 | 44.29 | 42.79 | 1,098 | 0.28 | 0.31 | 60.0 |
| 4/27/2015 16:38:38 | 44.62 | 43.12 | 1,098 | 0.28 | 0.31 | 60.0 |
| 4/27/2015 16:38:38 | 44.95 | 43.45 | 1,095 | 0.27 | 0.32 | 59.9 |
| 4/27/2015 16:38:39 | 45.28 | 43.78 | 1,082 | 0.27 | 0.32 | 59.2 |
| 4/27/2015 16:38:39 | 45.60 | 44.10 | 1,082 | 0.27 | 0.32 | 59.2 |
| 4/27/2015 16:38:39 | 45.93 | 44.43 | 1,121 | 0.27 | 0.33 | 61.3 |
| 4/27/2015 16:38:40 | 46.26 | 44.76 | 1,122 | 0.27 | 0.32 | 61.4 |
| 4/27/2015 16:38:40 | 46.59 | 45.09 | 1,122 | 0.27 | 0.32 | 61.4 |
| 4/27/2015 16:38:40 | 46.92 | 45.42 | 1,099 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 16:38:41 | 47.24 | 45.74 | 1,099 | 0.28 | 0.32 | 60.1 |
| 4/27/2015 16:38:41 | 47.57 | 46.07 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 16:38:41 | 47.90 | 46.40 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 16:38:42 | 48.23 | 46.73 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 16:38:42 | 48.56 | 47.06 | 1,102 | 0.28 | 0.32 | 60.3 |
| 4/27/2015 16:38:42 | 48.88 | 47.38 | 1,092 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 16:38:43 | 49.21 | 47.71 | 1,092 | 0.28 | 0.32 | 59.7 |
| 4/27/2015 16:38:43 | 49.54 | 48.04 | 1,099 | 0.26 | 0.36 | 60.1 |
| 4/27/2015 16:38:52 | 49.87 | 48.37 | 0 | 4.15 | 0.34 | 0.0 |
| 4/27/2015 16:38:53 | 50.20 | 48.70 | 126 | 4.15 | 0.39 | 6.9 |
| 4/27/2015 16:38:56 | 50.53 | 49.03 | 64 | 3.93 | 0.38 | 3.5 |
| 4/27/2015 16:38:57 | 50.85 | 49.35 | 213 | 4.00 | 0.37 | 11.6 |
| 4/27/2015 16:39:04 | 51.18 | 49.68 | 0 | 2.81 | 0.37 | 0.0 |
| 4/27/2015 16:39:05 | 51.51 | 50.01 | 110 | 2.97 | 0.39 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:39:50 | 51.84 | 50.34 | 6 | 4.14 | 0.40 | 0.3 |
| 4/27/2015 | 16:39:57 | 52.17 | 50.67 | 41 | 2.94 | 0.41 | 2.2 |
| 4/27/2015 | 16:40:06 | 52.49 | 50.99 | 42 | 2.79 | 0.40 | 2.3 |
| 4/27/2015 | 16:40:14 | 52.82 | 51.32 | 58 | 3.40 | 0.40 | 3.2 |
| 4/27/2015 | 16:40:17 | 52.97 | 51.47 | 47 | 3.22 | 0.41 | 2.6 |

## I35 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:36:29

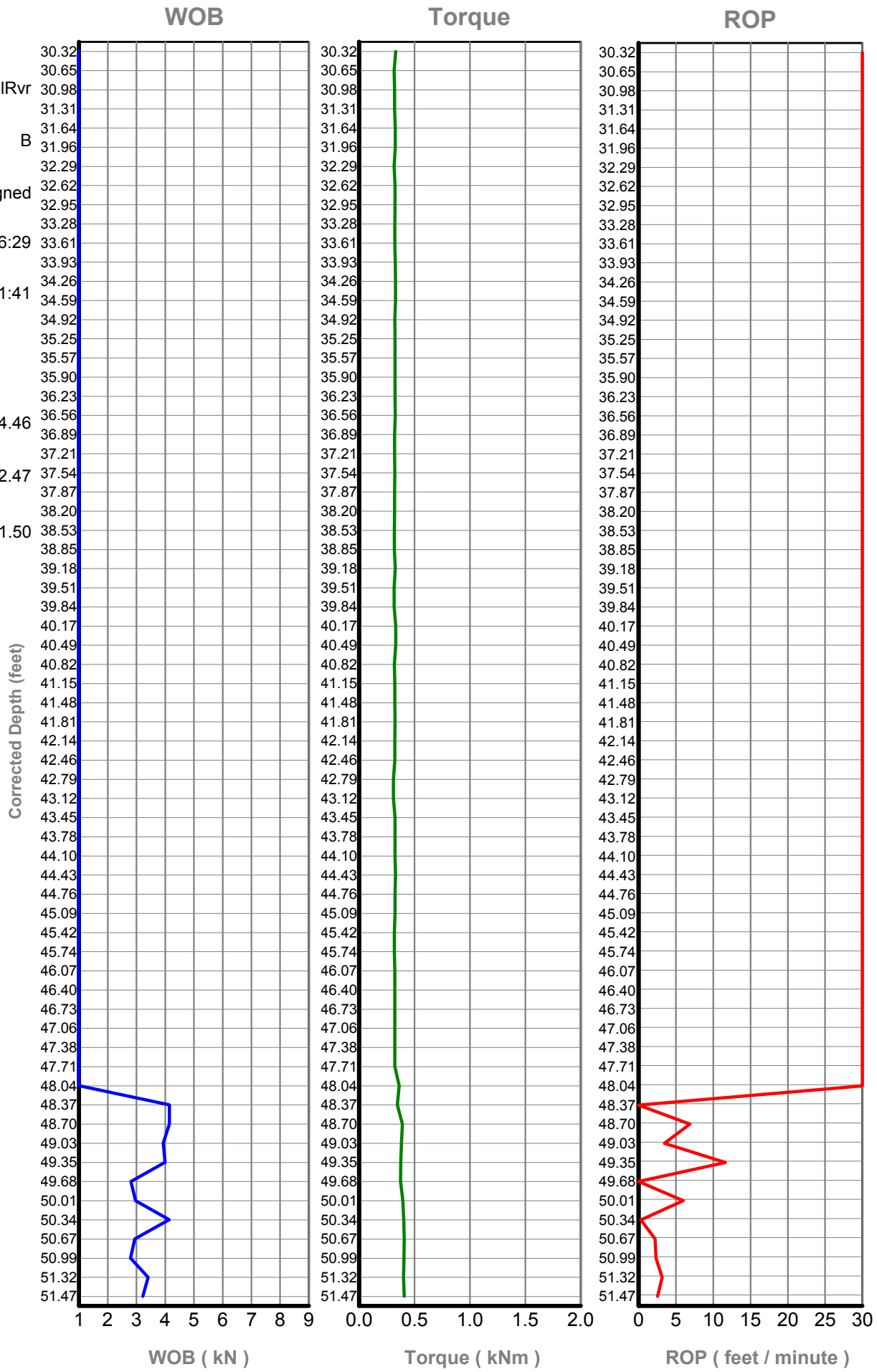
**End Date:**
4/27/2015 16:41:41

**Operator Note:**
'1.5 1.3 b Rock @ 52"

**Northing:**
364,714.46

**Easting:**
248,222.47

**Tide (feet):**
1.50



## Hole: I36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:38:02 | 31.82 | 30.32 | 1,098 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:38:03 | 32.15 | 30.65 | 1,098 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:38:03 | 32.48 | 30.98 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 16:38:03 | 32.81 | 31.31 | 1,099 | 1.60 | 0.29 | 60.1 |
| 4/27/2015 16:38:04 | 33.14 | 31.64 | 1,099 | 1.60 | 0.29 | 60.1 |
| 4/27/2015 16:38:04 | 33.46 | 31.96 | 1,102 | 1.59 | 0.29 | 60.3 |
| 4/27/2015 16:38:04 | 33.79 | 32.29 | 1,102 | 1.59 | 0.29 | 60.3 |
| 4/27/2015 16:38:04 | 34.12 | 32.62 | 1,093 | 1.62 | 0.28 | 59.8 |
| 4/27/2015 16:38:05 | 34.45 | 32.95 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:38:05 | 34.78 | 33.28 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:38:05 | 35.11 | 33.61 | 1,090 | 1.59 | 0.28 | 59.6 |
| 4/27/2015 16:38:06 | 35.43 | 33.93 | 1,087 | 1.59 | 0.28 | 59.5 |
| 4/27/2015 16:38:06 | 35.76 | 34.26 | 1,087 | 1.59 | 0.28 | 59.5 |
| 4/27/2015 16:38:06 | 36.09 | 34.59 | 1,084 | 1.59 | 0.28 | 59.3 |
| 4/27/2015 16:38:07 | 36.42 | 34.92 | 1,084 | 1.59 | 0.28 | 59.3 |
| 4/27/2015 16:38:07 | 36.75 | 35.25 | 1,093 | 1.60 | 0.28 | 59.8 |
| 4/27/2015 16:38:07 | 37.07 | 35.57 | 1,090 | 1.61 | 0.30 | 59.6 |
| 4/27/2015 16:38:08 | 37.40 | 35.90 | 1,090 | 1.61 | 0.30 | 59.6 |
| 4/27/2015 16:38:08 | 37.73 | 36.23 | 1,090 | 1.62 | 0.28 | 59.6 |
| 4/27/2015 16:38:08 | 38.06 | 36.56 | 1,093 | 1.59 | 0.28 | 59.8 |
| 4/27/2015 16:38:09 | 38.39 | 36.89 | 1,093 | 1.59 | 0.28 | 59.8 |
| 4/27/2015 16:38:09 | 38.71 | 37.21 | 1,090 | 1.59 | 0.28 | 59.6 |
| 4/27/2015 16:38:09 | 39.04 | 37.54 | 1,087 | 1.59 | 0.28 | 59.4 |
| 4/27/2015 16:38:10 | 39.37 | 37.87 | 1,087 | 1.59 | 0.28 | 59.4 |
| 4/27/2015 16:38:10 | 39.70 | 38.20 | 1,084 | 1.60 | 0.28 | 59.3 |
| 4/27/2015 16:38:10 | 40.03 | 38.53 | 1,084 | 1.60 | 0.28 | 59.3 |
| 4/27/2015 16:38:10 | 40.35 | 38.85 | 1,075 | 1.60 | 0.28 | 58.8 |
| 4/27/2015 16:38:11 | 40.68 | 39.18 | 1,087 | 1.60 | 0.28 | 59.4 |
| 4/27/2015 16:38:12 | 41.01 | 39.51 | 1,087 | 1.60 | 0.28 | 59.4 |
| 4/27/2015 16:38:12 | 41.34 | 39.84 | 1,081 | 1.59 | 0.28 | 59.1 |
| 4/27/2015 16:38:12 | 41.67 | 40.17 | 1,084 | 1.61 | 0.28 | 59.3 |
| 4/27/2015 16:38:13 | 41.99 | 40.49 | 1,084 | 1.61 | 0.28 | 59.3 |
| 4/27/2015 16:38:13 | 42.32 | 40.82 | 1,084 | 1.61 | 0.28 | 59.3 |
| 4/27/2015 16:38:13 | 42.65 | 41.15 | 1,084 | 1.61 | 0.28 | 59.3 |
| 4/27/2015 16:38:13 | 42.98 | 41.48 | 1,090 | 1.60 | 0.29 | 59.6 |
| 4/27/2015 16:38:14 | 43.31 | 41.81 | 1,081 | 1.62 | 0.29 | 59.1 |
| 4/27/2015 16:38:14 | 43.64 | 42.14 | 1,081 | 1.62 | 0.29 | 59.1 |
| 4/27/2015 16:38:14 | 43.96 | 42.46 | 1,088 | 1.62 | 0.29 | 59.5 |
| 4/27/2015 16:38:15 | 44.29 | 42.79 | 1,084 | 1.59 | 0.28 | 59.3 |
| 4/27/2015 16:38:15 | 44.62 | 43.12 | 1,084 | 1.59 | 0.28 | 59.3 |
| 4/27/2015 16:38:15 | 44.95 | 43.45 | 1,087 | 1.62 | 0.29 | 59.4 |
| 4/27/2015 16:38:16 | 45.28 | 43.78 | 1,081 | 1.61 | 0.29 | 59.1 |
| 4/27/2015 16:38:16 | 45.60 | 44.10 | 1,081 | 1.61 | 0.29 | 59.1 |
| 4/27/2015 16:38:16 | 45.93 | 44.43 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 16:38:17 | 46.26 | 44.76 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 16:38:17 | 46.59 | 45.09 | 1,067 | 1.61 | 0.29 | 58.3 |
| 4/27/2015 16:38:17 | 46.92 | 45.42 | 1,067 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 16:38:18 | 47.24 | 45.74 | 1,067 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 16:38:18 | 47.57 | 46.07 | 1,078 | 1.67 | 0.29 | 59.0 |
| 4/27/2015 16:38:36 | 47.90 | 46.40 | 0 | 1.63 | 0.99 | 0.0 |
| 4/27/2015 16:38:37 | 48.23 | 46.73 | 44 | 1.67 | 1.05 | 2.4 |
| 4/27/2015 16:38:37 | 48.56 | 47.06 | 213 | 1.73 | 1.07 | 11.6 |
| 4/27/2015 16:38:38 | 48.88 | 47.38 | 344 | 1.67 | 1.24 | 18.8 |
| 4/27/2015 16:38:38 | 49.21 | 47.71 | 468 | 1.68 | 1.22 | 25.6 |
| 4/27/2015 16:38:39 | 49.54 | 48.04 | 596 | 1.70 | 1.15 | 32.6 |
| 4/27/2015 16:38:39 | 49.87 | 48.37 | 705 | 1.72 | 0.95 | 38.6 |
| 4/27/2015 16:39:23 | 50.20 | 48.70 | 0 | 1.62 | 1.11 | 0.0 |
| 4/27/2015 16:39:24 | 50.53 | 49.03 | 214 | 1.65 | 1.29 | 11.7 |
| 4/27/2015 16:40:17 | 50.85 | 49.35 | 68 | 1.65 | 1.14 | 3.7 |
| 4/27/2015 16:40:18 | 51.18 | 49.68 | 133 | 1.69 | 1.08 | 7.3 |
| 4/27/2015 16:40:19 | 51.51 | 50.01 | 223 | 1.64 | 1.02 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:40:19 | 51.84 | 50.34 | 331 | 1.66 | 1.08 | 18.1 |
| 4/27/2015 | 16:40:20 | 52.17 | 50.67 | 449 | 1.70 | 0.99 | 24.5 |
| 4/27/2015 | 16:40:21 | 52.49 | 50.99 | 491 | 1.67 | 1.02 | 26.9 |
| 4/27/2015 | 16:40:21 | 52.82 | 51.32 | 523 | 1.73 | 1.13 | 28.6 |
| 4/27/2015 | 16:41:06 | 53.15 | 51.65 | 108 | 1.65 | 1.11 | 5.9 |
| 4/27/2015 | 16:41:07 | 53.48 | 51.98 | 169 | 1.68 | 1.12 | 9.3 |
| 4/27/2015 | 16:41:09 | 53.81 | 52.31 | 271 | 1.60 | 1.23 | 14.8 |
| 4/27/2015 | 16:41:11 | 54.13 | 52.63 | 202 | 1.64 | 1.34 | 11.1 |
| 4/27/2015 | 16:42:05 | 54.46 | 52.96 | 0 | 1.64 | 1.20 | 0.0 |
| 4/27/2015 | 16:42:07 | 54.79 | 53.29 | 131 | 1.66 | 1.33 | 7.1 |
| 4/27/2015 | 16:42:09 | 55.12 | 53.62 | 194 | 1.67 | 1.23 | 10.6 |
| 4/27/2015 | 16:42:10 | 55.45 | 53.95 | 238 | 1.65 | 1.17 | 13.0 |
| 4/27/2015 | 16:42:44 | 55.77 | 54.27 | 28 | 1.66 | 1.11 | 1.5 |
| 4/27/2015 | 16:42:47 | 56.10 | 54.60 | 109 | 1.65 | 1.07 | 5.9 |
| 4/27/2015 | 16:42:49 | 56.35 | 54.85 | 137 | 1.41 | 1.00 | 7.5 |

## I36 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:36:59

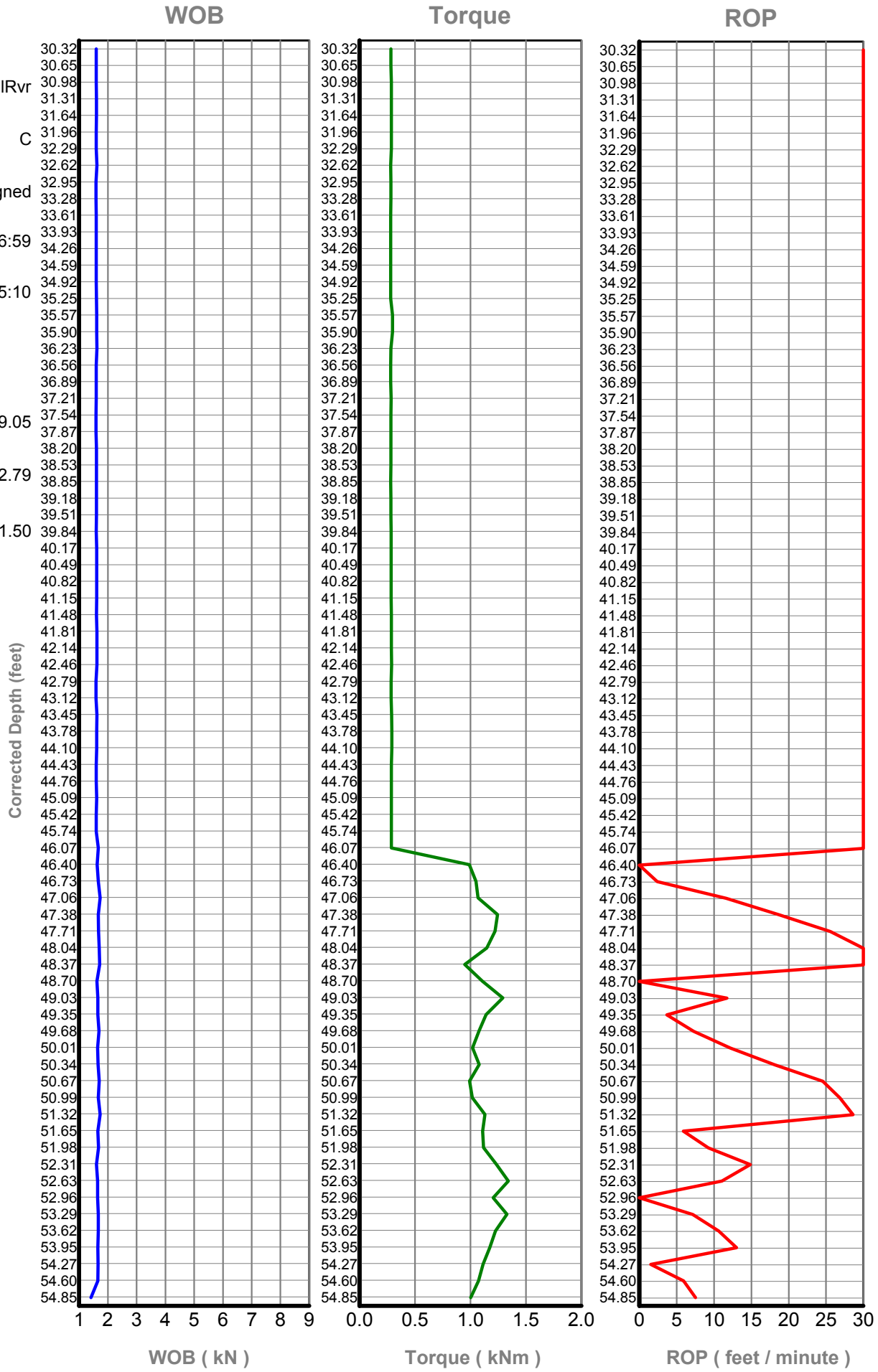
**End Date:**
4/27/2015 16:45:10

**Operator Note:**
'1.5 1.3 C Auto Complete'

**Northing:**
364,759.05

**Easting:**
248,282.79

**Tide (feet):**
1.50



## Hole: I37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:30:11 | 31.82 | 30.32 | 714 | 1.12 | 0.87 | 39.0 |
| 4/29/2015 3:30:11 | 32.15 | 30.65 | 711 | 1.11 | 0.21 | 38.9 |
| 4/29/2015 3:30:12 | 32.48 | 30.98 | 707 | 1.12 | 0.20 | 38.7 |
| 4/29/2015 3:30:12 | 32.81 | 31.31 | 714 | 1.10 | 0.21 | 39.1 |
| 4/29/2015 3:30:13 | 33.14 | 31.64 | 717 | 1.10 | 0.21 | 39.2 |
| 4/29/2015 3:30:13 | 33.46 | 31.96 | 714 | 1.11 | 0.21 | 39.0 |
| 4/29/2015 3:30:14 | 33.79 | 32.29 | 717 | 1.11 | 0.21 | 39.2 |
| 4/29/2015 3:30:14 | 34.12 | 32.62 | 717 | 1.11 | 0.21 | 39.2 |
| 4/29/2015 3:30:15 | 34.45 | 32.95 | 717 | 1.11 | 0.21 | 39.2 |
| 4/29/2015 3:30:15 | 34.78 | 33.28 | 714 | 1.11 | 0.20 | 39.0 |
| 4/29/2015 3:30:16 | 35.11 | 33.61 | 714 | 1.10 | 0.21 | 39.0 |
| 4/29/2015 3:30:16 | 35.43 | 33.93 | 711 | 1.10 | 0.20 | 38.9 |
| 4/29/2015 3:30:17 | 35.76 | 34.26 | 714 | 1.10 | 0.20 | 39.0 |
| 4/29/2015 3:30:17 | 36.09 | 34.59 | 714 | 1.10 | 0.20 | 39.0 |
| 4/29/2015 3:30:17 | 36.42 | 34.92 | 714 | 1.11 | 0.20 | 39.0 |
| 4/29/2015 3:30:18 | 36.75 | 35.25 | 714 | 1.09 | 0.20 | 39.0 |
| 4/29/2015 3:30:18 | 37.07 | 35.57 | 713 | 1.11 | 0.20 | 39.0 |
| 4/29/2015 3:30:19 | 37.40 | 35.90 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 3:30:20 | 37.73 | 36.23 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 3:30:20 | 38.06 | 36.56 | 717 | 1.11 | 0.20 | 39.2 |
| 4/29/2015 3:30:21 | 38.39 | 36.89 | 720 | 1.10 | 0.20 | 39.4 |
| 4/29/2015 3:30:21 | 38.71 | 37.21 | 720 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 3:30:22 | 39.04 | 37.54 | 720 | 1.10 | 0.20 | 39.4 |
| 4/29/2015 3:30:22 | 39.37 | 37.87 | 702 | 1.11 | 0.20 | 38.4 |
| 4/29/2015 3:30:23 | 39.70 | 38.20 | 702 | 1.09 | 0.20 | 38.4 |
| 4/29/2015 3:30:23 | 40.03 | 38.53 | 711 | 1.11 | 0.20 | 38.9 |
| 4/29/2015 3:30:24 | 40.35 | 38.85 | 708 | 1.11 | 0.21 | 38.7 |
| 4/29/2015 3:30:24 | 40.68 | 39.18 | 709 | 1.11 | 0.20 | 38.8 |
| 4/29/2015 3:30:25 | 41.01 | 39.51 | 702 | 1.11 | 0.20 | 38.4 |
| 4/29/2015 3:30:25 | 41.34 | 39.84 | 721 | 1.11 | 0.20 | 39.4 |
| 4/29/2015 3:30:26 | 41.67 | 40.17 | 711 | 1.11 | 0.20 | 38.9 |
| 4/29/2015 3:30:26 | 41.99 | 40.49 | 715 | 1.09 | 0.20 | 39.1 |
| 4/29/2015 3:30:27 | 42.32 | 40.82 | 707 | 1.11 | 0.20 | 38.7 |
| 4/29/2015 3:30:27 | 42.65 | 41.15 | 711 | 1.11 | 0.20 | 38.9 |
| 4/29/2015 3:30:28 | 42.98 | 41.48 | 714 | 1.10 | 0.20 | 39.1 |
| 4/29/2015 3:30:28 | 43.31 | 41.81 | 711 | 1.11 | 0.20 | 38.9 |
| 4/29/2015 3:30:29 | 43.64 | 42.14 | 696 | 1.10 | 0.20 | 38.0 |
| 4/29/2015 3:30:29 | 43.96 | 42.46 | 696 | 1.10 | 0.20 | 38.0 |
| 4/29/2015 3:30:29 | 44.29 | 42.79 | 696 | 1.11 | 0.20 | 38.0 |
| 4/29/2015 3:30:30 | 44.62 | 43.12 | 710 | 1.11 | 0.20 | 38.8 |
| 4/29/2015 3:30:31 | 44.95 | 43.45 | 707 | 1.11 | 0.20 | 38.7 |
| 4/29/2015 3:30:31 | 45.28 | 43.78 | 696 | 1.10 | 0.20 | 38.1 |
| 4/29/2015 3:30:32 | 45.60 | 44.10 | 695 | 1.11 | 0.20 | 38.0 |
| 4/29/2015 3:30:32 | 45.93 | 44.43 | 695 | 1.09 | 0.20 | 38.0 |
| 4/29/2015 3:30:33 | 46.26 | 44.76 | 711 | 1.11 | 0.20 | 38.9 |
| 4/29/2015 3:30:33 | 46.59 | 45.09 | 701 | 1.11 | 0.20 | 38.3 |
| 4/29/2015 3:30:34 | 46.92 | 45.42 | 704 | 1.10 | 0.20 | 38.5 |
| 4/29/2015 3:30:34 | 47.24 | 45.74 | 708 | 1.13 | 0.20 | 38.7 |
| 4/29/2015 3:31:21 | 47.57 | 46.07 | 31 | 1.17 | 1.52 | 1.7 |
| 4/29/2015 3:31:30 | 47.90 | 46.40 | 14 | 1.18 | 0.99 | 0.8 |
| 4/29/2015 3:31:37 | 48.23 | 46.73 | 8 | 0.52 | 0.82 | 0.4 |
| 4/29/2015 3:32:08 | 48.56 | 47.06 | 89 | 1.06 | 1.26 | 4.8 |
| 4/29/2015 3:32:09 | 48.88 | 47.38 | 225 | 1.07 | 0.91 | 12.3 |
| 4/29/2015 3:32:13 | 49.21 | 47.71 | 51 | 1.00 | 0.65 | 2.8 |
| 4/29/2015 3:32:17 | 49.54 | 48.04 | 62 | 1.09 | 0.78 | 3.4 |
| 4/29/2015 3:32:22 | 49.87 | 48.37 | 3 | 1.11 | 0.77 | 0.2 |
| 4/29/2015 3:32:25 | 50.20 | 48.70 | 145 | 1.11 | 1.23 | 7.9 |
| 4/29/2015 3:32:29 | 50.53 | 49.03 | 66 | 1.17 | 1.32 | 3.6 |
| 4/29/2015 3:32:34 | 50.85 | 49.35 | 58 | 1.17 | 1.29 | 3.2 |
| 4/29/2015 3:32:43 | 51.18 | 49.68 | 81 | 1.15 | 1.17 | 4.4 |
| 4/29/2015 3:32:47 | 51.51 | 50.01 | 95 | 1.08 | 1.07 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:33:00 | 51.84 | 50.34 | 3 | 1.11 | 1.11 | 0.2 |
| 4/29/2015 | 3:33:02 | 52.17 | 50.67 | 128 | 1.07 | 0.98 | 7.0 |
| 4/29/2015 | 3:33:03 | 52.49 | 50.99 | 229 | 1.19 | 1.12 | 12.5 |
| 4/29/2015 | 3:33:08 | 52.82 | 51.32 | 72 | 1.15 | 1.13 | 4.0 |
| 4/29/2015 | 3:33:11 | 53.15 | 51.65 | 121 | 1.07 | 1.21 | 6.6 |
| 4/29/2015 | 3:33:13 | 53.48 | 51.98 | 133 | 1.11 | 1.20 | 7.3 |
| 4/29/2015 | 3:33:16 | 53.81 | 52.31 | 139 | 1.12 | 1.17 | 7.6 |
| 4/29/2015 | 3:33:32 | 54.13 | 52.63 | 69 | 1.13 | 1.29 | 3.8 |
| 4/29/2015 | 3:33:35 | 54.46 | 52.96 | 124 | 1.02 | 1.10 | 6.8 |
| 4/29/2015 | 3:33:39 | 54.79 | 53.29 | 99 | 1.07 | 1.27 | 5.4 |
| 4/29/2015 | 3:33:42 | 55.12 | 53.62 | 98 | 1.11 | 1.25 | 5.4 |
| 4/29/2015 | 3:33:46 | 55.45 | 53.95 | 104 | 1.05 | 1.26 | 5.7 |
| 4/29/2015 | 3:33:53 | 55.77 | 54.27 | 31 | 1.00 | 1.18 | 1.7 |
| 4/29/2015 | 3:33:56 | 56.10 | 54.60 | 101 | 1.02 | 1.26 | 5.5 |
| 4/29/2015 | 3:34:00 | 56.43 | 54.93 | 98 | 1.04 | 1.20 | 5.4 |
| 4/29/2015 | 3:34:01 | 56.55 | 55.05 | 104 | 1.17 | 1.24 | 5.7 |

## I37 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:26:54

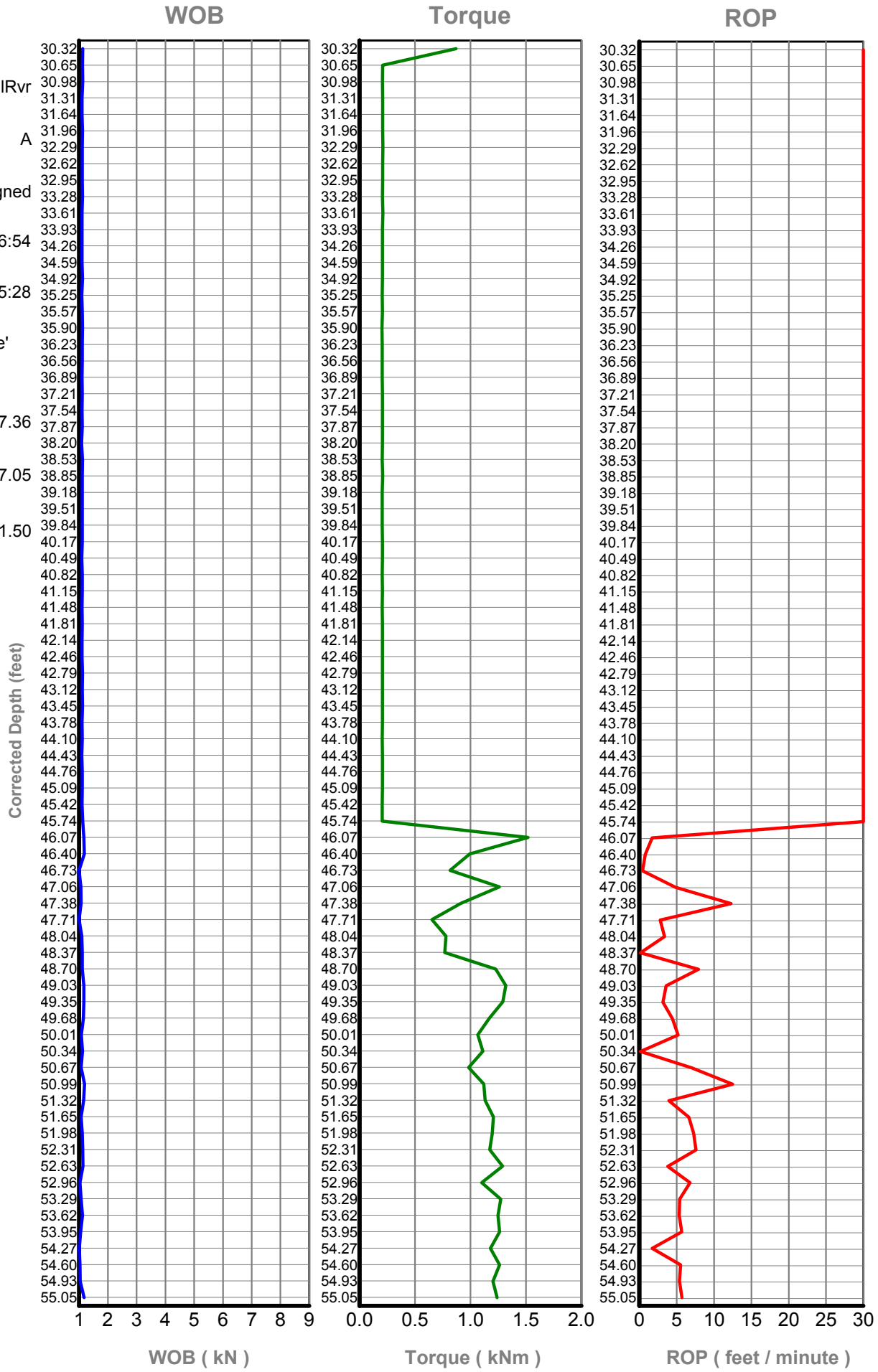
**End Date:**
4/29/2015 3:35:28

**Operator Note:**
'1.5 1.5 b Auto Complete'

**Northing:**
364,187.36

**Easting:**
247,677.05

**Tide (feet):**
1.50



## Hole: I38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:30:14 | 31.50 | 30.10 | 982 | 0.36 | 0.38 | 53.7 |
| 4/29/2015 3:30:15 | 31.82 | 30.42 | 979 | 0.36 | 0.38 | 53.5 |
| 4/29/2015 3:30:15 | 32.15 | 30.75 | 979 | 0.36 | 0.38 | 53.5 |
| 4/29/2015 3:30:15 | 32.48 | 31.08 | 979 | 0.36 | 0.38 | 53.5 |
| 4/29/2015 3:30:16 | 32.81 | 31.41 | 973 | 0.36 | 0.38 | 53.2 |
| 4/29/2015 3:30:16 | 33.14 | 31.74 | 973 | 0.36 | 0.38 | 53.2 |
| 4/29/2015 3:30:16 | 33.46 | 32.06 | 998 | 0.36 | 0.38 | 54.6 |
| 4/29/2015 3:30:17 | 33.79 | 32.39 | 986 | 0.36 | 0.38 | 53.9 |
| 4/29/2015 3:30:17 | 34.12 | 32.72 | 983 | 0.39 | 0.38 | 53.7 |
| 4/29/2015 3:30:18 | 34.45 | 33.05 | 983 | 0.39 | 0.38 | 53.7 |
| 4/29/2015 3:30:18 | 34.78 | 33.38 | 983 | 0.35 | 0.38 | 53.7 |
| 4/29/2015 3:30:18 | 35.11 | 33.71 | 963 | 0.36 | 0.38 | 52.6 |
| 4/29/2015 3:30:19 | 35.43 | 34.03 | 963 | 0.36 | 0.38 | 52.6 |
| 4/29/2015 3:30:19 | 35.76 | 34.36 | 963 | 0.36 | 0.38 | 52.6 |
| 4/29/2015 3:30:19 | 36.09 | 34.69 | 968 | 0.36 | 0.39 | 52.9 |
| 4/29/2015 3:30:20 | 36.42 | 35.02 | 962 | 0.35 | 0.39 | 52.6 |
| 4/29/2015 3:30:20 | 36.75 | 35.35 | 962 | 0.35 | 0.39 | 52.6 |
| 4/29/2015 3:30:20 | 37.07 | 35.67 | 968 | 0.36 | 0.38 | 52.9 |
| 4/29/2015 3:30:21 | 37.40 | 36.00 | 959 | 0.36 | 0.38 | 52.5 |
| 4/29/2015 3:30:21 | 37.73 | 36.33 | 959 | 0.36 | 0.38 | 52.5 |
| 4/29/2015 3:30:21 | 38.06 | 36.66 | 971 | 0.36 | 0.38 | 53.1 |
| 4/29/2015 3:30:22 | 38.39 | 36.99 | 971 | 0.31 | 0.38 | 53.1 |
| 4/29/2015 3:30:22 | 38.71 | 37.31 | 971 | 0.31 | 0.38 | 53.1 |
| 4/29/2015 3:30:22 | 39.04 | 37.64 | 968 | 0.36 | 0.38 | 52.9 |
| 4/29/2015 3:30:23 | 39.37 | 37.97 | 979 | 0.36 | 0.38 | 53.6 |
| 4/29/2015 3:30:23 | 39.70 | 38.30 | 974 | 0.36 | 0.38 | 53.2 |
| 4/29/2015 3:30:24 | 40.03 | 38.63 | 974 | 0.36 | 0.38 | 53.2 |
| 4/29/2015 3:30:24 | 40.35 | 38.95 | 977 | 0.36 | 0.38 | 53.4 |
| 4/29/2015 3:30:25 | 40.68 | 39.28 | 996 | 0.36 | 0.38 | 54.5 |
| 4/29/2015 3:30:25 | 41.01 | 39.61 | 996 | 0.36 | 0.38 | 54.5 |
| 4/29/2015 3:30:25 | 41.34 | 39.94 | 967 | 0.36 | 0.38 | 52.9 |
| 4/29/2015 3:30:26 | 41.67 | 40.27 | 967 | 0.36 | 0.38 | 52.9 |
| 4/29/2015 3:30:26 | 41.99 | 40.59 | 967 | 0.36 | 0.38 | 52.9 |
| 4/29/2015 3:30:26 | 42.32 | 40.92 | 974 | 0.36 | 0.38 | 53.2 |
| 4/29/2015 3:30:27 | 42.65 | 41.25 | 977 | 0.36 | 0.38 | 53.4 |
| 4/29/2015 3:30:27 | 42.98 | 41.58 | 977 | 0.36 | 0.38 | 53.4 |
| 4/29/2015 3:30:27 | 43.31 | 41.91 | 979 | 0.36 | 0.38 | 53.6 |
| 4/29/2015 3:30:28 | 43.64 | 42.24 | 971 | 0.36 | 0.38 | 53.1 |
| 4/29/2015 3:30:28 | 43.96 | 42.56 | 992 | 0.36 | 0.38 | 54.2 |
| 4/29/2015 3:30:29 | 44.29 | 42.89 | 992 | 0.36 | 0.38 | 54.2 |
| 4/29/2015 3:30:29 | 44.62 | 43.22 | 989 | 0.36 | 0.38 | 54.1 |
| 4/29/2015 3:30:29 | 44.95 | 43.55 | 986 | 0.37 | 0.38 | 53.9 |
| 4/29/2015 3:30:30 | 45.28 | 43.88 | 986 | 0.37 | 0.38 | 53.9 |
| 4/29/2015 3:30:30 | 45.60 | 44.20 | 989 | 0.36 | 0.38 | 54.1 |
| 4/29/2015 3:30:30 | 45.93 | 44.53 | 991 | 0.36 | 0.38 | 54.2 |
| 4/29/2015 3:30:31 | 46.26 | 44.86 | 991 | 0.36 | 0.38 | 54.2 |
| 4/29/2015 3:30:31 | 46.59 | 45.19 | 991 | 0.36 | 0.38 | 54.2 |
| 4/29/2015 3:30:31 | 46.92 | 45.52 | 989 | 0.36 | 0.38 | 54.1 |
| 4/29/2015 3:30:32 | 47.24 | 45.84 | 989 | 0.36 | 0.38 | 54.1 |
| 4/29/2015 3:30:32 | 47.57 | 46.17 | 991 | 0.35 | 0.39 | 54.2 |
| 4/29/2015 3:30:32 | 47.90 | 46.50 | 985 | 0.36 | 0.38 | 53.9 |
| 4/29/2015 3:30:33 | 48.23 | 46.83 | 980 | 0.33 | 0.47 | 53.6 |
| 4/29/2015 3:30:38 | 48.56 | 47.16 | 64 | 5.57 | 0.48 | 3.5 |
| 4/29/2015 3:30:43 | 48.88 | 47.48 | 0 | 5.10 | 0.42 | 0.0 |
| 4/29/2015 3:30:44 | 49.21 | 47.81 | 110 | 2.87 | 0.45 | 6.0 |
| 4/29/2015 3:30:49 | 49.54 | 48.14 | 75 | 4.39 | 0.46 | 4.1 |
| 4/29/2015 3:30:59 | 49.87 | 48.47 | 12 | 5.93 | 0.47 | 0.6 |
| 4/29/2015 3:31:05 | 50.20 | 48.80 | 76 | 3.96 | 0.44 | 4.1 |
| 4/29/2015 3:31:09 | 50.53 | 49.13 | 116 | 3.91 | 0.47 | 6.3 |
| 4/29/2015 3:31:13 | 50.85 | 49.45 | 84 | 3.98 | 0.46 | 4.6 |
| 4/29/2015 3:31:17 | 51.18 | 49.78 | 101 | 3.97 | 0.46 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:31:20 | 51.51 | 50.11 | 106 | 3.80 | 0.46 | 5.8 |
| 4/29/2015 | 3:31:24 | 51.84 | 50.44 | 97 | 4.20 | 0.47 | 5.3 |
| 4/29/2015 | 3:31:28 | 52.17 | 50.77 | 93 | 4.05 | 0.47 | 5.1 |
| 4/29/2015 | 3:31:31 | 52.49 | 51.09 | 96 | 4.03 | 0.46 | 5.2 |
| 4/29/2015 | 3:31:35 | 52.82 | 51.42 | 86 | 4.00 | 0.46 | 4.7 |
| 4/29/2015 | 3:31:39 | 53.15 | 51.75 | 98 | 4.22 | 0.47 | 5.3 |
| 4/29/2015 | 3:31:43 | 53.48 | 52.08 | 87 | 3.81 | 0.47 | 4.7 |
| 4/29/2015 | 3:31:47 | 53.81 | 52.41 | 93 | 3.89 | 0.46 | 5.1 |
| 4/29/2015 | 3:31:51 | 54.13 | 52.73 | 98 | 4.27 | 0.46 | 5.4 |
| 4/29/2015 | 3:31:54 | 54.46 | 53.06 | 95 | 3.71 | 0.47 | 5.2 |
| 4/29/2015 | 3:31:58 | 54.79 | 53.39 | 94 | 3.98 | 0.46 | 5.1 |
| 4/29/2015 | 3:32:01 | 55.12 | 53.72 | 104 | 4.32 | 0.47 | 5.7 |
| 4/29/2015 | 3:32:05 | 55.45 | 54.05 | 99 | 4.40 | 0.46 | 5.4 |
| 4/29/2015 | 3:32:08 | 55.77 | 54.37 | 107 | 4.35 | 0.46 | 5.8 |
| 4/29/2015 | 3:32:12 | 56.10 | 54.70 | 90 | 4.00 | 0.47 | 4.9 |
| 4/29/2015 | 3:32:16 | 56.43 | 55.03 | 100 | 4.78 | 0.46 | 5.5 |
| 4/29/2015 | 3:32:16 | 56.50 | 55.10 | 101 | 4.81 | 0.47 | 5.5 |

## I38 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:28:45

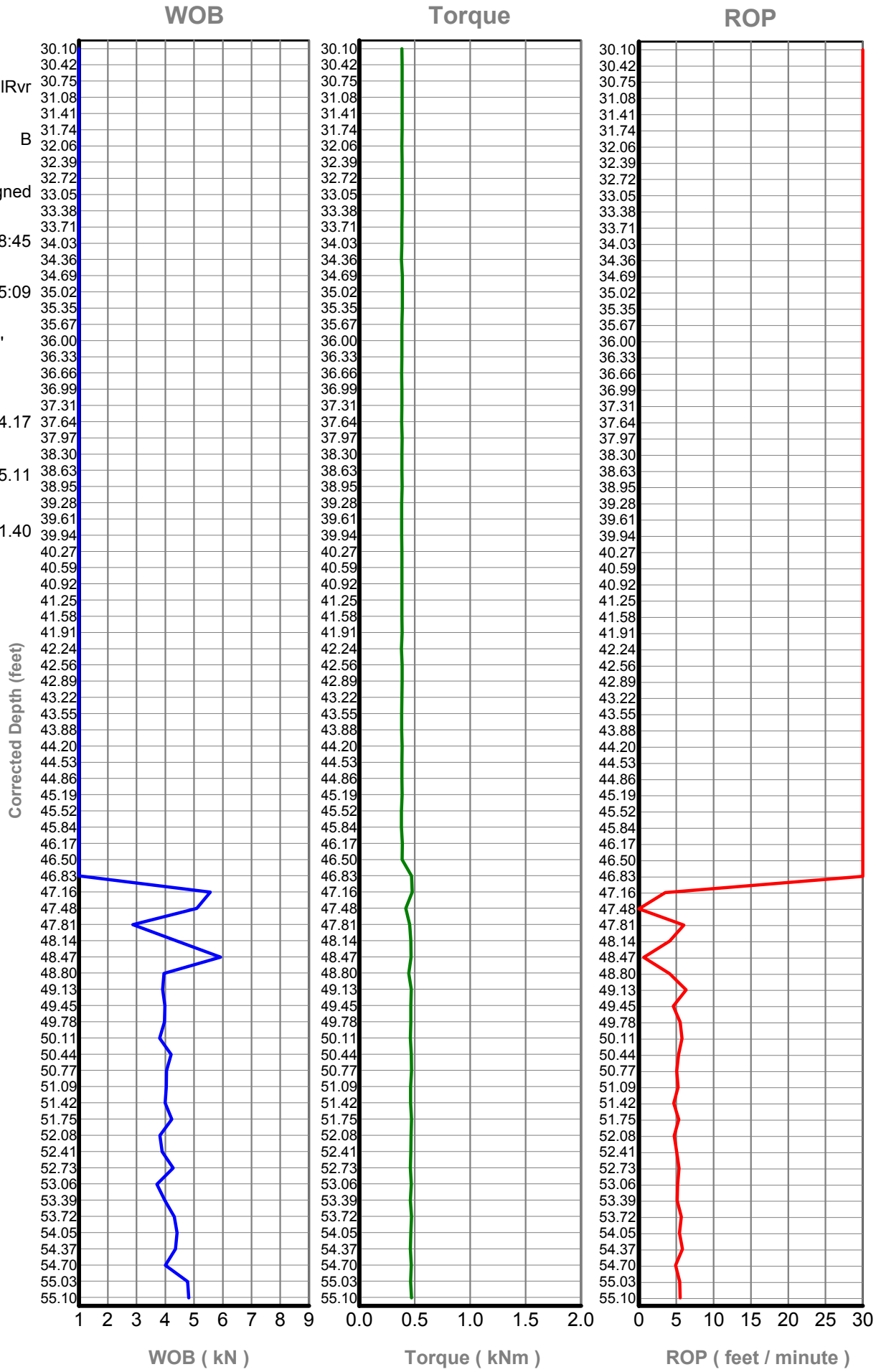
**End Date:**
4/29/2015 3:35:09

**Operator Note:**
'1.4 1.5b Auto Complete'

**Northing:**
364,234.17

**Easting:**
247,735.11

**Tide (feet):**
1.40



## Hole: I39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 3:29:37 | 31.50 | 30.10 | 1,030 | 1.61 | 0.14 | 56.3 |
| 4/29/2015 3:29:37 | 31.82 | 30.42 | 1,051 | 1.60 | 0.14 | 57.5 |
| 4/29/2015 3:29:37 | 32.15 | 30.75 | 1,032 | 1.62 | 0.14 | 56.4 |
| 4/29/2015 3:29:38 | 32.48 | 31.08 | 1,032 | 1.62 | 0.14 | 56.4 |
| 4/29/2015 3:29:38 | 32.81 | 31.41 | 1,042 | 1.64 | 0.14 | 57.0 |
| 4/29/2015 3:29:38 | 33.14 | 31.74 | 1,042 | 1.60 | 0.15 | 57.0 |
| 4/29/2015 3:29:39 | 33.46 | 32.06 | 1,042 | 1.60 | 0.15 | 57.0 |
| 4/29/2015 3:29:39 | 33.79 | 32.39 | 1,044 | 1.63 | 0.15 | 57.1 |
| 4/29/2015 3:29:39 | 34.12 | 32.72 | 1,024 | 1.61 | 0.14 | 56.0 |
| 4/29/2015 3:29:40 | 34.45 | 33.05 | 1,024 | 1.61 | 0.14 | 56.0 |
| 4/29/2015 3:29:40 | 34.78 | 33.38 | 997 | 1.60 | 0.14 | 54.5 |
| 4/29/2015 3:29:40 | 35.11 | 33.71 | 997 | 1.63 | 0.15 | 54.5 |
| 4/29/2015 3:29:41 | 35.43 | 34.03 | 997 | 1.63 | 0.15 | 54.5 |
| 4/29/2015 3:29:41 | 35.76 | 34.36 | 1,035 | 1.60 | 0.15 | 56.6 |
| 4/29/2015 3:29:41 | 36.09 | 34.69 | 1,001 | 1.62 | 0.14 | 54.8 |
| 4/29/2015 3:29:42 | 36.42 | 35.02 | 1,001 | 1.62 | 0.14 | 54.8 |
| 4/29/2015 3:29:42 | 36.75 | 35.35 | 1,001 | 1.61 | 0.14 | 54.8 |
| 4/29/2015 3:29:43 | 37.07 | 35.67 | 1,000 | 1.61 | 0.14 | 54.7 |
| 4/29/2015 3:29:43 | 37.40 | 36.00 | 1,000 | 1.61 | 0.14 | 54.7 |
| 4/29/2015 3:29:43 | 37.73 | 36.33 | 1,029 | 1.62 | 0.15 | 56.3 |
| 4/29/2015 3:29:44 | 38.06 | 36.66 | 1,041 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 3:29:44 | 38.39 | 36.99 | 1,041 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 3:29:44 | 38.71 | 37.31 | 1,024 | 1.62 | 0.14 | 56.0 |
| 4/29/2015 3:29:45 | 39.04 | 37.64 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 3:29:45 | 39.37 | 37.97 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 3:29:45 | 39.70 | 38.30 | 1,009 | 1.62 | 0.15 | 55.2 |
| 4/29/2015 3:29:46 | 40.03 | 38.63 | 1,006 | 1.62 | 0.15 | 55.0 |
| 4/29/2015 3:29:46 | 40.35 | 38.95 | 1,006 | 1.62 | 0.15 | 55.0 |
| 4/29/2015 3:29:46 | 40.68 | 39.28 | 1,006 | 1.62 | 0.15 | 55.0 |
| 4/29/2015 3:29:47 | 41.01 | 39.61 | 1,017 | 1.60 | 0.15 | 55.6 |
| 4/29/2015 3:29:47 | 41.34 | 39.94 | 1,017 | 1.60 | 0.15 | 55.6 |
| 4/29/2015 3:29:47 | 41.67 | 40.27 | 1,000 | 1.60 | 0.14 | 54.7 |
| 4/29/2015 3:29:48 | 41.99 | 40.59 | 1,013 | 1.63 | 0.14 | 55.4 |
| 4/29/2015 3:29:48 | 42.32 | 40.92 | 1,013 | 1.63 | 0.14 | 55.4 |
| 4/29/2015 3:29:48 | 42.65 | 41.25 | 1,034 | 1.62 | 0.14 | 56.5 |
| 4/29/2015 3:29:49 | 42.98 | 41.58 | 1,034 | 1.61 | 0.14 | 56.5 |
| 4/29/2015 3:29:49 | 43.31 | 41.91 | 1,034 | 1.61 | 0.14 | 56.5 |
| 4/29/2015 3:29:49 | 43.64 | 42.24 | 1,017 | 1.60 | 0.14 | 55.6 |
| 4/29/2015 3:29:50 | 43.96 | 42.56 | 1,017 | 1.62 | 0.15 | 55.6 |
| 4/29/2015 3:29:50 | 44.29 | 42.89 | 1,017 | 1.62 | 0.15 | 55.6 |
| 4/29/2015 3:29:50 | 44.62 | 43.22 | 1,015 | 1.64 | 0.15 | 55.5 |
| 4/29/2015 3:29:51 | 44.95 | 43.55 | 1,035 | 1.62 | 0.15 | 56.6 |
| 4/29/2015 3:29:51 | 45.28 | 43.88 | 1,035 | 1.62 | 0.15 | 56.6 |
| 4/29/2015 3:29:51 | 45.60 | 44.20 | 1,032 | 1.62 | 0.15 | 56.4 |
| 4/29/2015 3:29:52 | 45.93 | 44.53 | 1,038 | 1.64 | 0.15 | 56.8 |
| 4/29/2015 3:29:52 | 46.26 | 44.86 | 1,038 | 1.64 | 0.15 | 56.8 |
| 4/29/2015 3:29:53 | 46.59 | 45.19 | 1,042 | 1.63 | 0.14 | 57.0 |
| 4/29/2015 3:29:53 | 46.92 | 45.52 | 1,022 | 1.62 | 0.15 | 55.9 |
| 4/29/2015 3:29:54 | 47.24 | 45.84 | 1,022 | 1.62 | 0.15 | 55.9 |
| 4/29/2015 3:29:54 | 47.57 | 46.17 | 1,025 | 1.62 | 0.15 | 56.0 |
| 4/29/2015 3:29:54 | 47.90 | 46.50 | 1,025 | 1.61 | 0.15 | 56.0 |
| 4/29/2015 3:29:55 | 48.23 | 46.83 | 1,025 | 1.61 | 0.15 | 56.0 |
| 4/29/2015 3:29:55 | 48.56 | 47.16 | 1,025 | 1.70 | 0.15 | 56.0 |
| 4/29/2015 3:30:13 | 48.88 | 47.48 | 0 | 1.64 | 1.04 | 0.0 |
| 4/29/2015 3:30:14 | 49.21 | 47.81 | 38 | 1.68 | 1.18 | 2.1 |
| 4/29/2015 3:30:25 | 49.54 | 48.14 | 9 | 1.74 | 1.05 | 0.5 |
| 4/29/2015 3:30:28 | 49.87 | 48.47 | 74 | 1.72 | 1.13 | 4.1 |
| 4/29/2015 3:30:29 | 50.20 | 48.80 | 137 | 1.65 | 1.09 | 7.5 |
| 4/29/2015 3:30:29 | 50.53 | 49.13 | 281 | 1.68 | 1.15 | 15.4 |
| 4/29/2015 3:30:38 | 50.85 | 49.45 | 0 | 1.67 | 1.17 | 0.0 |
| 4/29/2015 3:30:39 | 51.18 | 49.78 | 151 | 1.56 | 1.20 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 3:30:40 | 51.51 | 50.11 | 319 | 1.67 | 1.31 | 17.4 |
| 4/29/2015 | 3:30:43 | 51.84 | 50.44 | 172 | 1.70 | 1.35 | 9.4 |
| 4/29/2015 | 3:30:46 | 52.17 | 50.77 | 117 | 1.68 | 1.33 | 6.4 |
| 4/29/2015 | 3:30:50 | 52.49 | 51.09 | 94 | 1.68 | 1.37 | 5.1 |
| 4/29/2015 | 3:30:52 | 52.82 | 51.42 | 105 | 1.69 | 1.27 | 5.7 |
| 4/29/2015 | 3:30:56 | 53.15 | 51.75 | 117 | 1.70 | 1.21 | 6.4 |
| 4/29/2015 | 3:31:00 | 53.48 | 52.08 | 87 | 1.69 | 1.32 | 4.7 |
| 4/29/2015 | 3:31:04 | 53.81 | 52.41 | 93 | 1.71 | 1.45 | 5.1 |
| 4/29/2015 | 3:31:09 | 54.13 | 52.73 | 79 | 1.70 | 1.50 | 4.3 |
| 4/29/2015 | 3:31:16 | 54.46 | 53.06 | 63 | 1.66 | 1.42 | 3.4 |
| 4/29/2015 | 3:31:22 | 54.79 | 53.39 | 56 | 1.66 | 1.38 | 3.1 |
| 4/29/2015 | 3:31:27 | 55.12 | 53.72 | 83 | 1.70 | 1.36 | 4.5 |
| 4/29/2015 | 3:31:31 | 55.45 | 54.05 | 96 | 1.70 | 1.32 | 5.3 |
| 4/29/2015 | 3:31:34 | 55.77 | 54.37 | 86 | 1.68 | 1.27 | 4.7 |
| 4/29/2015 | 3:31:38 | 56.10 | 54.70 | 105 | 1.68 | 1.24 | 5.7 |
| 4/29/2015 | 3:31:43 | 56.43 | 55.03 | 68 | 1.70 | 1.19 | 3.7 |
| 4/29/2015 | 3:31:45 | 56.55 | 55.15 | 67 | 1.68 | 1.21 | 3.7 |

## I39 - Summary

**Pattern Number:**
Areal_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 3:28:21

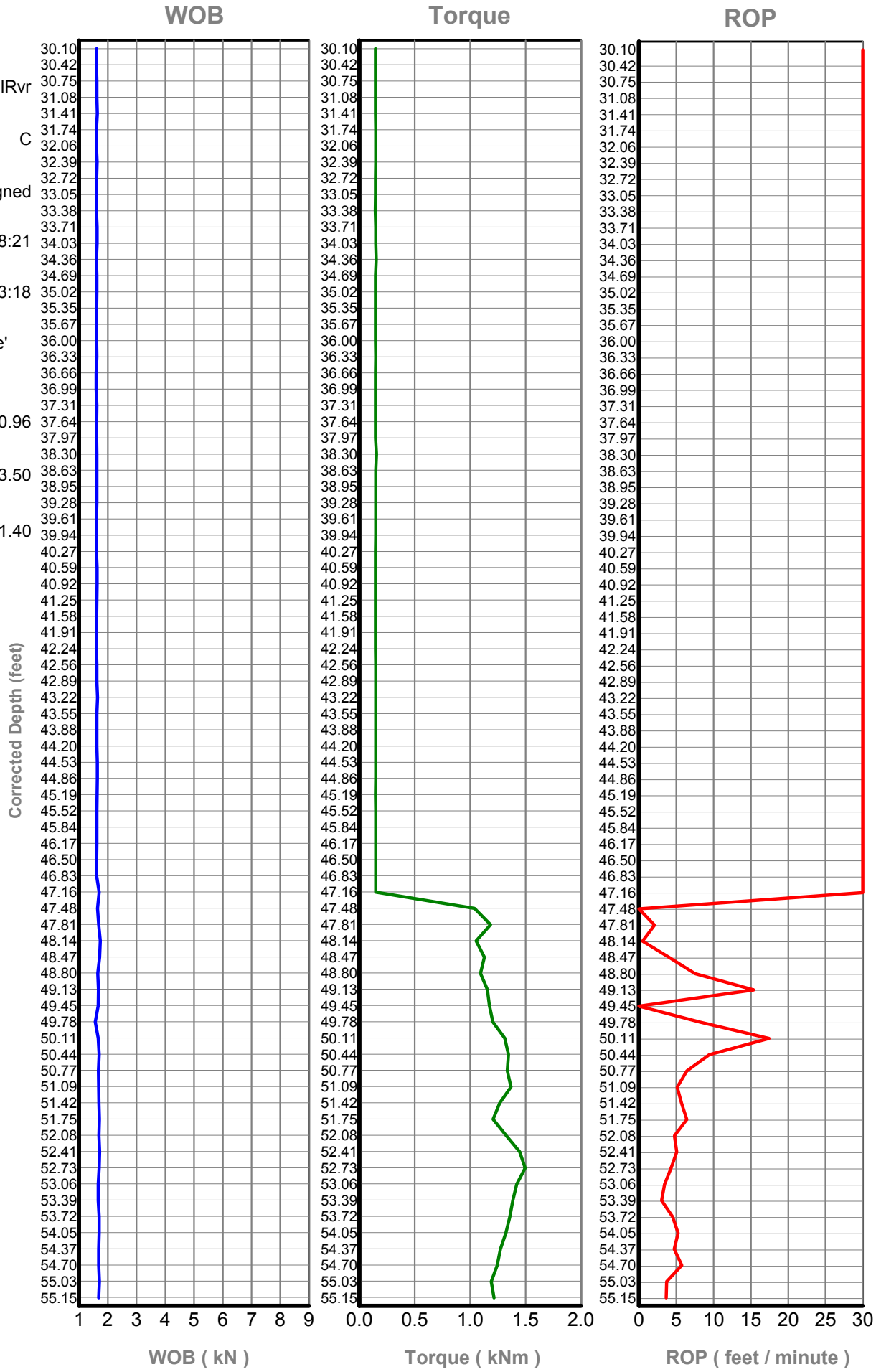
**End Date:**
4/29/2015 3:33:18

**Operator Note:**
'1.4 1.5 c Auto Complete'

**Northing:**
364,280.96

**Easting:**
247,793.50

**Tide (feet):**
1.40



## Hole: I4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:38:19 | 34.45 | 30.25 | 741 | 1.09 | 0.79 | 40.5 |
| 4/29/2015 0:38:19 | 34.78 | 30.58 | 743 | 1.06 | 0.79 | 40.7 |
| 4/29/2015 0:38:20 | 35.11 | 30.91 | 740 | 1.08 | 0.79 | 40.5 |
| 4/29/2015 0:38:20 | 35.43 | 31.23 | 740 | 1.09 | 0.79 | 40.5 |
| 4/29/2015 0:38:21 | 35.76 | 31.56 | 736 | 1.08 | 0.79 | 40.2 |
| 4/29/2015 0:38:21 | 36.09 | 31.89 | 743 | 1.09 | 0.80 | 40.7 |
| 4/29/2015 0:38:22 | 36.42 | 32.22 | 745 | 1.09 | 0.77 | 40.7 |
| 4/29/2015 0:38:22 | 36.75 | 32.55 | 740 | 1.07 | 0.78 | 40.5 |
| 4/29/2015 0:38:23 | 37.07 | 32.87 | 740 | 1.09 | 0.80 | 40.5 |
| 4/29/2015 0:38:23 | 37.40 | 33.20 | 740 | 1.09 | 0.80 | 40.5 |
| 4/29/2015 0:38:23 | 37.73 | 33.53 | 748 | 1.09 | 0.78 | 40.9 |
| 4/29/2015 0:38:24 | 38.06 | 33.86 | 743 | 1.09 | 0.79 | 40.6 |
| 4/29/2015 0:38:25 | 38.39 | 34.19 | 747 | 1.09 | 0.80 | 40.9 |
| 4/29/2015 0:38:25 | 38.71 | 34.51 | 743 | 1.08 | 0.78 | 40.6 |
| 4/29/2015 0:38:26 | 39.04 | 34.84 | 746 | 1.09 | 0.79 | 40.8 |
| 4/29/2015 0:38:26 | 39.37 | 35.17 | 743 | 1.10 | 0.20 | 40.6 |
| 4/29/2015 0:38:27 | 39.70 | 35.50 | 740 | 1.08 | 0.19 | 40.5 |
| 4/29/2015 0:38:27 | 40.03 | 35.83 | 735 | 1.07 | 0.19 | 40.2 |
| 4/29/2015 0:38:28 | 40.35 | 36.15 | 743 | 1.08 | 0.19 | 40.6 |
| 4/29/2015 0:38:28 | 40.68 | 36.48 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 0:38:29 | 41.01 | 36.81 | 737 | 1.08 | 0.19 | 40.3 |
| 4/29/2015 0:38:29 | 41.34 | 37.14 | 737 | 1.08 | 0.19 | 40.3 |
| 4/29/2015 0:38:30 | 41.67 | 37.47 | 737 | 1.08 | 0.19 | 40.3 |
| 4/29/2015 0:38:30 | 41.99 | 37.79 | 737 | 1.09 | 0.19 | 40.3 |
| 4/29/2015 0:38:30 | 42.32 | 38.12 | 734 | 1.09 | 0.19 | 40.2 |
| 4/29/2015 0:38:31 | 42.65 | 38.45 | 737 | 1.08 | 0.19 | 40.3 |
| 4/29/2015 0:38:31 | 42.98 | 38.78 | 733 | 1.07 | 0.19 | 40.1 |
| 4/29/2015 0:38:32 | 43.31 | 39.11 | 737 | 1.08 | 0.19 | 40.3 |
| 4/29/2015 0:38:32 | 43.64 | 39.44 | 737 | 1.09 | 0.19 | 40.3 |
| 4/29/2015 0:38:33 | 43.96 | 39.76 | 737 | 1.10 | 0.19 | 40.3 |
| 4/29/2015 0:38:33 | 44.29 | 40.09 | 737 | 1.09 | 0.19 | 40.3 |
| 4/29/2015 0:38:34 | 44.62 | 40.42 | 737 | 1.06 | 0.19 | 40.3 |
| 4/29/2015 0:38:34 | 44.95 | 40.75 | 725 | 1.08 | 0.19 | 39.6 |
| 4/29/2015 0:38:35 | 45.28 | 41.08 | 725 | 1.07 | 0.19 | 39.6 |
| 4/29/2015 0:38:36 | 45.60 | 41.40 | 730 | 1.09 | 0.19 | 39.9 |
| 4/29/2015 0:38:36 | 45.93 | 41.73 | 730 | 1.08 | 0.19 | 39.9 |
| 4/29/2015 0:38:37 | 46.26 | 42.06 | 730 | 1.07 | 0.19 | 39.9 |
| 4/29/2015 0:38:37 | 46.59 | 42.39 | 730 | 1.07 | 0.19 | 39.9 |
| 4/29/2015 0:38:37 | 46.92 | 42.72 | 731 | 1.09 | 0.19 | 40.0 |
| 4/29/2015 0:38:38 | 47.24 | 43.04 | 739 | 1.07 | 0.19 | 40.4 |
| 4/29/2015 0:38:38 | 47.57 | 43.37 | 734 | 1.08 | 0.19 | 40.1 |
| 4/29/2015 0:38:39 | 47.90 | 43.70 | 731 | 1.08 | 0.19 | 40.0 |
| 4/29/2015 0:38:39 | 48.23 | 44.03 | 728 | 1.09 | 0.19 | 39.8 |
| 4/29/2015 0:38:40 | 48.56 | 44.36 | 727 | 1.07 | 0.19 | 39.8 |
| 4/29/2015 0:38:40 | 48.88 | 44.68 | 731 | 1.08 | 0.19 | 40.0 |
| 4/29/2015 0:38:41 | 49.21 | 45.01 | 731 | 1.08 | 0.19 | 40.0 |
| 4/29/2015 0:38:41 | 49.54 | 45.34 | 731 | 1.11 | 0.19 | 40.0 |
| 4/29/2015 0:39:01 | 49.87 | 45.67 | 0 | 1.05 | 1.27 | 0.0 |
| 4/29/2015 0:39:03 | 50.20 | 46.00 | 171 | 1.13 | 1.01 | 9.3 |
| 4/29/2015 0:39:05 | 50.53 | 46.33 | 140 | 1.15 | 1.19 | 7.6 |
| 4/29/2015 0:39:10 | 50.85 | 46.65 | 70 | 1.13 | 1.43 | 3.8 |
| 4/29/2015 0:39:18 | 51.18 | 46.98 | 37 | 1.14 | 1.31 | 2.0 |
| 4/29/2015 0:39:45 | 51.51 | 47.31 | 37 | 1.03 | 1.15 | 2.0 |
| 4/29/2015 0:39:48 | 51.84 | 47.64 | 98 | 1.12 | 1.36 | 5.4 |
| 4/29/2015 0:39:52 | 52.17 | 47.97 | 99 | 1.11 | 1.22 | 5.4 |
| 4/29/2015 0:39:54 | 52.49 | 48.29 | 127 | 1.04 | 1.12 | 7.0 |
| 4/29/2015 0:39:57 | 52.82 | 48.62 | 104 | 1.04 | 1.18 | 5.7 |
| 4/29/2015 0:40:02 | 53.15 | 48.95 | 90 | 1.13 | 1.20 | 4.9 |
| 4/29/2015 0:40:05 | 53.48 | 49.28 | 92 | 1.07 | 1.29 | 5.1 |
| 4/29/2015 0:40:10 | 53.81 | 49.61 | 90 | 1.02 | 1.26 | 4.9 |
| 4/29/2015 0:40:13 | 54.13 | 49.93 | 98 | 1.07 | 1.15 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:40:17 | 54.46 | 50.26 | 96 | 1.11 | 1.25 | 5.2 |
| 4/29/2015 | 0:40:21 | 54.79 | 50.59 | 90 | 1.05 | 1.29 | 4.9 |
| 4/29/2015 | 0:40:25 | 55.12 | 50.92 | 86 | 1.11 | 1.20 | 4.7 |
| 4/29/2015 | 0:40:28 | 55.45 | 51.25 | 100 | 1.10 | 1.16 | 5.5 |
| 4/29/2015 | 0:40:38 | 55.77 | 51.57 | 29 | 1.33 | 1.15 | 1.6 |
| 4/29/2015 | 0:40:44 | 56.10 | 51.90 | 69 | 1.02 | 1.16 | 3.8 |
| 4/29/2015 | 0:40:48 | 56.43 | 52.23 | 78 | 1.03 | 1.12 | 4.2 |
| 4/29/2015 | 0:40:53 | 56.76 | 52.56 | 78 | 1.08 | 1.14 | 4.3 |
| 4/29/2015 | 0:40:57 | 57.09 | 52.89 | 75 | 1.00 | 1.11 | 4.1 |
| 4/29/2015 | 0:41:03 | 57.41 | 53.21 | 69 | 0.97 | 1.14 | 3.8 |
| 4/29/2015 | 0:41:09 | 57.74 | 53.54 | 55 | 1.00 | 1.06 | 3.0 |
| 4/29/2015 | 0:41:14 | 58.07 | 53.87 | 66 | 1.07 | 1.15 | 3.6 |
| 4/29/2015 | 0:41:19 | 58.40 | 54.20 | 70 | 1.08 | 1.07 | 3.8 |
| 4/29/2015 | 0:41:24 | 58.73 | 54.53 | 81 | 0.99 | 1.07 | 4.4 |
| 4/29/2015 | 0:41:27 | 59.06 | 54.86 | 110 | 1.00 | 0.98 | 6.0 |
| 4/29/2015 | 0:41:33 | 59.38 | 55.18 | 64 | 1.04 | 1.15 | 3.5 |
| 4/29/2015 | 0:41:33 | 59.42 | 55.22 | 64 | 1.11 | 1.19 | 3.5 |

## I4 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/29/2015 0:35:48

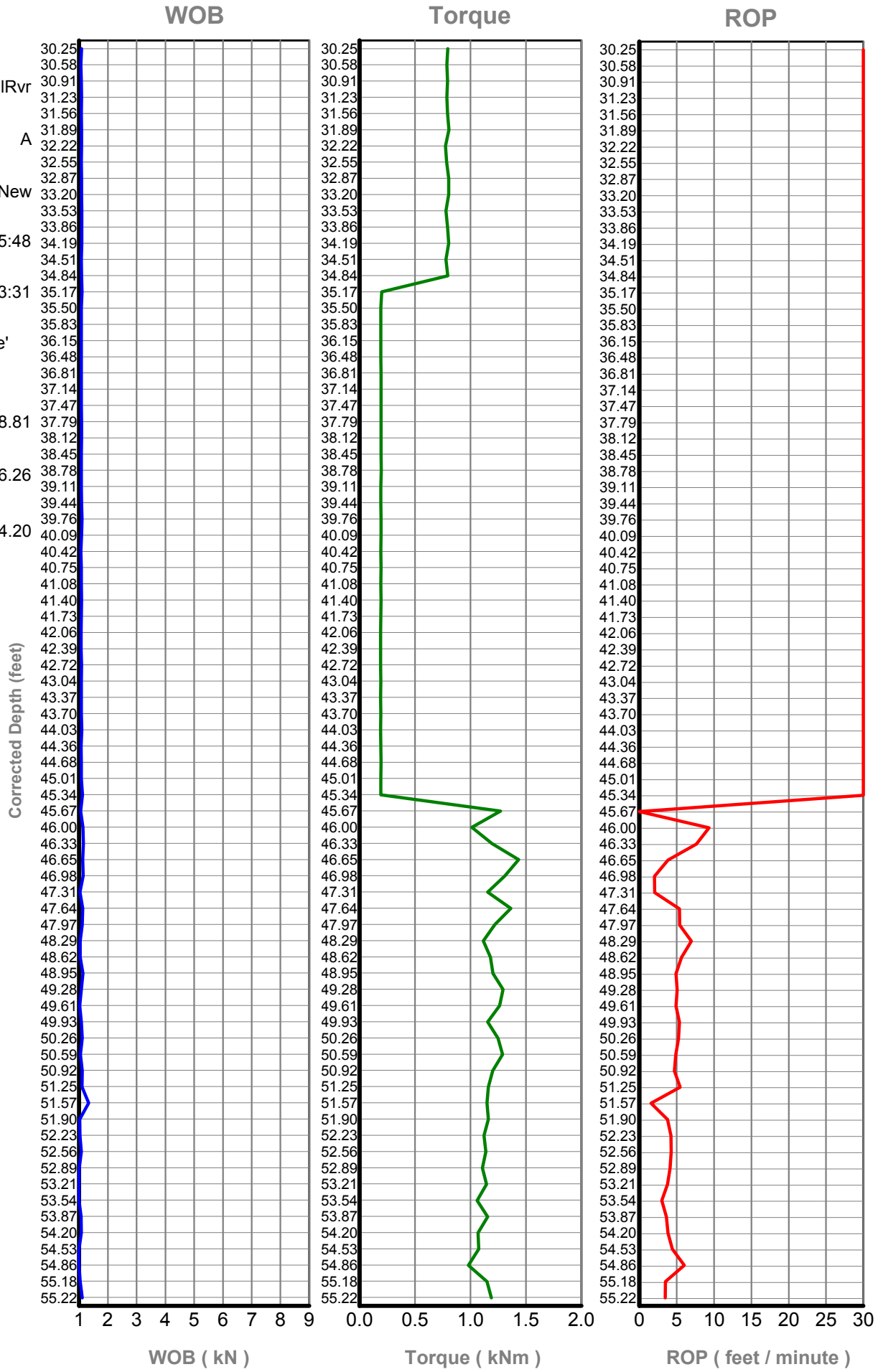
**End Date:**
4/29/2015 0:43:31

**Operator Note:**
'4.2 4.4 b Auto Complete'

**Northing:**
364,498.81

**Easting:**
247,716.26

**Tide (feet):**
4.20



## Hole: I40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:14:12 | 33.79 | 30.19 | 793 | 1.06 | 0.75 | 43.4 |
| 4/29/2015 1:14:12 | 34.12 | 30.52 | 794 | 1.06 | 0.76 | 43.4 |
| 4/29/2015 1:14:13 | 34.45 | 30.85 | 793 | 1.05 | 0.75 | 43.3 |
| 4/29/2015 1:14:13 | 34.78 | 31.18 | 793 | 1.09 | 0.73 | 43.3 |
| 4/29/2015 1:14:14 | 35.11 | 31.51 | 794 | 1.06 | 0.73 | 43.4 |
| 4/29/2015 1:14:14 | 35.43 | 31.83 | 789 | 1.06 | 0.76 | 43.2 |
| 4/29/2015 1:14:15 | 35.76 | 32.16 | 789 | 1.08 | 0.76 | 43.2 |
| 4/29/2015 1:14:15 | 36.09 | 32.49 | 789 | 1.08 | 0.76 | 43.2 |
| 4/29/2015 1:14:15 | 36.42 | 32.82 | 792 | 1.07 | 0.75 | 43.3 |
| 4/29/2015 1:14:16 | 36.75 | 33.15 | 789 | 1.05 | 0.74 | 43.2 |
| 4/29/2015 1:14:16 | 37.07 | 33.47 | 792 | 0.39 | 0.75 | 43.3 |
| 4/29/2015 1:14:26 | 37.40 | 33.80 | 49 | 1.04 | 0.73 | 2.7 |
| 4/29/2015 1:14:26 | 37.73 | 34.13 | 187 | 1.04 | 0.74 | 10.2 |
| 4/29/2015 1:14:27 | 38.06 | 34.46 | 187 | 1.02 | 0.74 | 10.2 |
| 4/29/2015 1:14:27 | 38.39 | 34.79 | 350 | 1.02 | 0.73 | 19.1 |
| 4/29/2015 1:14:28 | 38.71 | 35.11 | 350 | 1.02 | 0.73 | 19.1 |
| 4/29/2015 1:14:28 | 39.04 | 35.44 | 512 | 1.02 | 0.74 | 28.0 |
| 4/29/2015 1:14:29 | 39.37 | 35.77 | 663 | 1.02 | 0.75 | 36.3 |
| 4/29/2015 1:14:29 | 39.70 | 36.10 | 766 | 1.04 | 0.73 | 41.9 |
| 4/29/2015 1:14:30 | 40.03 | 36.43 | 784 | 1.02 | 0.74 | 42.9 |
| 4/29/2015 1:14:30 | 40.35 | 36.75 | 775 | 1.03 | 0.76 | 42.4 |
| 4/29/2015 1:14:31 | 40.68 | 37.08 | 769 | 1.03 | 0.76 | 42.0 |
| 4/29/2015 1:14:31 | 41.01 | 37.41 | 769 | 1.03 | 0.74 | 42.0 |
| 4/29/2015 1:14:32 | 41.34 | 37.74 | 769 | 1.01 | 0.76 | 42.0 |
| 4/29/2015 1:14:32 | 41.67 | 38.07 | 769 | 1.01 | 0.76 | 42.0 |
| 4/29/2015 1:14:32 | 41.99 | 38.39 | 772 | 1.03 | 0.75 | 42.2 |
| 4/29/2015 1:14:33 | 42.32 | 38.72 | 769 | 1.04 | 0.77 | 42.0 |
| 4/29/2015 1:14:33 | 42.65 | 39.05 | 769 | 1.03 | 0.74 | 42.0 |
| 4/29/2015 1:14:34 | 42.98 | 39.38 | 769 | 1.01 | 0.76 | 42.0 |
| 4/29/2015 1:14:34 | 43.31 | 39.71 | 772 | 1.02 | 0.77 | 42.2 |
| 4/29/2015 1:14:35 | 43.64 | 40.04 | 769 | 1.02 | 0.73 | 42.0 |
| 4/29/2015 1:14:35 | 43.96 | 40.36 | 769 | 1.04 | 0.77 | 42.0 |
| 4/29/2015 1:14:36 | 44.29 | 40.69 | 764 | 1.02 | 0.75 | 41.8 |
| 4/29/2015 1:14:36 | 44.62 | 41.02 | 764 | 1.02 | 0.75 | 41.8 |
| 4/29/2015 1:14:36 | 44.95 | 41.35 | 772 | 1.02 | 0.75 | 42.2 |
| 4/29/2015 1:14:37 | 45.28 | 41.68 | 769 | 1.03 | 0.73 | 42.0 |
| 4/29/2015 1:14:37 | 45.60 | 42.00 | 769 | 1.04 | 0.77 | 42.0 |
| 4/29/2015 1:14:38 | 45.93 | 42.33 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 1:14:38 | 46.26 | 42.66 | 769 | 1.04 | 0.18 | 42.0 |
| 4/29/2015 1:14:39 | 46.59 | 42.99 | 766 | 1.02 | 0.18 | 41.9 |
| 4/29/2015 1:14:40 | 46.92 | 43.32 | 766 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 1:14:40 | 47.24 | 43.64 | 762 | 1.03 | 0.18 | 41.6 |
| 4/29/2015 1:14:41 | 47.57 | 43.97 | 755 | 1.02 | 0.18 | 41.3 |
| 4/29/2015 1:14:41 | 47.90 | 44.30 | 755 | 1.02 | 0.18 | 41.3 |
| 4/29/2015 1:14:41 | 48.23 | 44.63 | 755 | 1.02 | 0.18 | 41.3 |
| 4/29/2015 1:14:42 | 48.56 | 44.96 | 764 | 1.04 | 0.18 | 41.8 |
| 4/29/2015 1:14:42 | 48.88 | 45.28 | 759 | 1.03 | 0.18 | 41.5 |
| 4/29/2015 1:14:43 | 49.21 | 45.61 | 767 | 1.02 | 0.18 | 41.9 |
| 4/29/2015 1:14:43 | 49.54 | 45.94 | 767 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 1:14:44 | 49.87 | 46.27 | 777 | 1.03 | 0.18 | 42.5 |
| 4/29/2015 1:14:44 | 50.20 | 46.60 | 761 | 1.02 | 0.18 | 41.6 |
| 4/29/2015 1:14:45 | 50.53 | 46.93 | 769 | 1.08 | 0.17 | 42.1 |
| 4/29/2015 1:15:02 | 50.85 | 47.25 | 0 | 1.07 | 0.90 | 0.0 |
| 4/29/2015 1:15:06 | 51.18 | 47.58 | 80 | 1.00 | 1.31 | 4.4 |
| 4/29/2015 1:15:13 | 51.51 | 47.91 | 75 | 1.07 | 1.26 | 4.1 |
| 4/29/2015 1:15:24 | 51.84 | 48.24 | 49 | 1.77 | 1.28 | 2.7 |
| 4/29/2015 1:15:25 | 52.17 | 48.57 | 172 | 1.70 | 1.53 | 9.4 |
| 4/29/2015 1:15:25 | 52.49 | 48.89 | 295 | 1.79 | 1.44 | 16.1 |
| 4/29/2015 1:16:12 | 52.82 | 49.22 | 75 | 2.12 | 1.40 | 4.1 |
| 4/29/2015 1:16:14 | 53.15 | 49.55 | 135 | 1.02 | 1.05 | 7.4 |
| 4/29/2015 1:16:15 | 53.48 | 49.88 | 277 | 0.94 | 0.88 | 15.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:16:15 | 53.81 | 50.21 | 324 | 1.07 | 0.94 | 17.7 |
| 4/29/2015 | 1:16:28 | 54.13 | 50.53 | 6 | 1.04 | 1.66 | 0.3 |
| 4/29/2015 | 1:16:30 | 54.46 | 50.86 | 156 | 1.06 | 1.39 | 8.5 |
| 4/29/2015 | 1:16:34 | 54.79 | 51.19 | 98 | 1.00 | 0.94 | 5.4 |
| 4/29/2015 | 1:16:36 | 55.12 | 51.52 | 144 | 0.96 | 1.10 | 7.9 |
| 4/29/2015 | 1:16:40 | 55.45 | 51.85 | 95 | 1.00 | 1.04 | 5.2 |
| 4/29/2015 | 1:16:47 | 55.77 | 52.17 | 55 | 1.00 | 1.06 | 3.0 |
| 4/29/2015 | 1:16:53 | 56.10 | 52.50 | 59 | 0.97 | 1.13 | 3.2 |
| 4/29/2015 | 1:16:57 | 56.43 | 52.83 | 96 | 1.02 | 1.06 | 5.3 |
| 4/29/2015 | 1:17:00 | 56.76 | 53.16 | 102 | 1.05 | 1.14 | 5.6 |
| 4/29/2015 | 1:17:09 | 57.09 | 53.49 | 67 | 0.96 | 1.13 | 3.7 |
| 4/29/2015 | 1:17:13 | 57.41 | 53.81 | 98 | 0.96 | 1.15 | 5.4 |
| 4/29/2015 | 1:17:16 | 57.74 | 54.14 | 121 | 0.96 | 1.05 | 6.6 |
| 4/29/2015 | 1:17:18 | 58.07 | 54.47 | 184 | 1.04 | 0.78 | 10.1 |
| 4/29/2015 | 1:17:19 | 58.40 | 54.80 | 252 | 1.13 | 0.85 | 13.8 |
| 4/29/2015 | 1:17:24 | 58.73 | 55.13 | 35 | 1.18 | 1.14 | 1.9 |

## I40 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:11:31

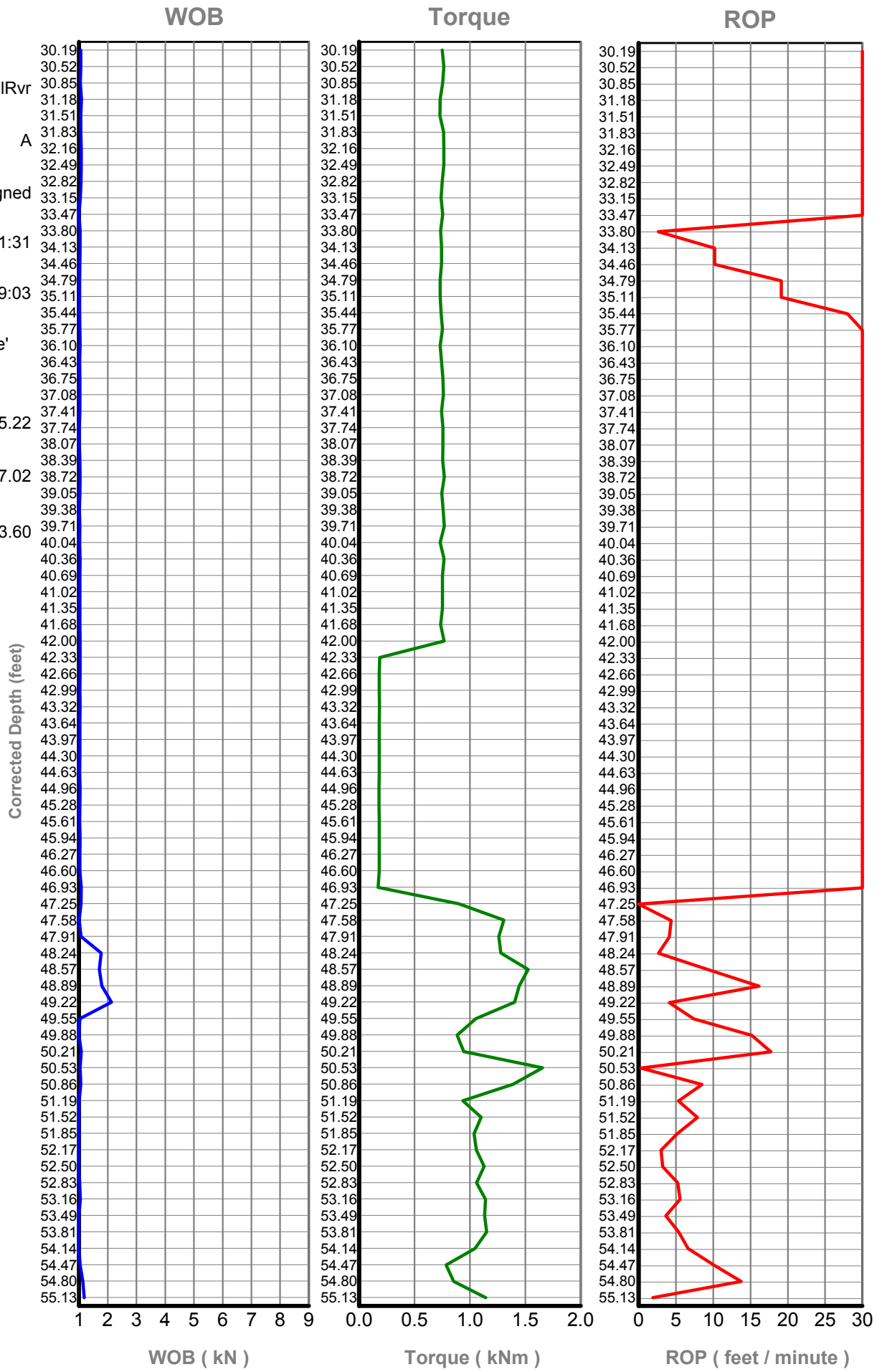
**End Date:**
4/29/2015 1:19:03

**Operator Note:**
'3.6 3.8 b Auto Complete'

**Northing:**
364,325.22

**Easting:**
247,857.02

**Tide (feet):**
3.60



## Hole: I41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:14:19 | 33.79 | 30.19 | 1,191 | 0.29 | 0.36 | 65.1 |
| 4/29/2015 1:14:19 | 34.12 | 30.52 | 1,191 | 0.29 | 0.36 | 65.1 |
| 4/29/2015 1:14:19 | 34.45 | 30.85 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 1:14:20 | 34.78 | 31.18 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 1:14:20 | 35.11 | 31.51 | 1,202 | 0.29 | 0.36 | 65.7 |
| 4/29/2015 1:14:21 | 35.43 | 31.83 | 1,202 | 0.29 | 0.36 | 65.7 |
| 4/29/2015 1:14:21 | 35.76 | 32.16 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 1:14:21 | 36.09 | 32.49 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/29/2015 1:14:22 | 36.42 | 32.82 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/29/2015 1:14:22 | 36.75 | 33.15 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/29/2015 1:14:22 | 37.07 | 33.47 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/29/2015 1:14:22 | 37.40 | 33.80 | 1,185 | 0.29 | 0.36 | 64.8 |
| 4/29/2015 1:14:23 | 37.73 | 34.13 | 1,185 | 0.29 | 0.36 | 64.8 |
| 4/29/2015 1:14:23 | 38.06 | 34.46 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/29/2015 1:14:23 | 38.39 | 34.79 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/29/2015 1:14:24 | 38.71 | 35.11 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/29/2015 1:14:24 | 39.04 | 35.44 | 1,172 | 0.29 | 0.38 | 64.1 |
| 4/29/2015 1:14:24 | 39.37 | 35.77 | 1,172 | 0.29 | 0.38 | 64.1 |
| 4/29/2015 1:14:24 | 39.70 | 36.10 | 1,176 | 0.29 | 0.36 | 64.3 |
| 4/29/2015 1:14:25 | 40.03 | 36.43 | 1,176 | 0.29 | 0.36 | 64.3 |
| 4/29/2015 1:14:25 | 40.35 | 36.75 | 1,176 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:14:25 | 40.68 | 37.08 | 1,169 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:14:26 | 41.01 | 37.41 | 1,169 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:14:26 | 41.34 | 37.74 | 1,169 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:14:26 | 41.67 | 38.07 | 1,169 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:14:26 | 41.99 | 38.39 | 1,175 | 0.30 | 0.36 | 64.3 |
| 4/29/2015 1:14:27 | 42.32 | 38.72 | 1,175 | 0.30 | 0.36 | 64.3 |
| 4/29/2015 1:14:27 | 42.65 | 39.05 | 1,183 | 0.29 | 0.37 | 64.7 |
| 4/29/2015 1:14:27 | 42.98 | 39.38 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/29/2015 1:14:28 | 43.31 | 39.71 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/29/2015 1:14:28 | 43.64 | 40.04 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/29/2015 1:14:28 | 43.96 | 40.36 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/29/2015 1:14:28 | 44.29 | 40.69 | 1,187 | 0.30 | 0.36 | 64.9 |
| 4/29/2015 1:14:29 | 44.62 | 41.02 | 1,198 | 0.29 | 0.36 | 65.5 |
| 4/29/2015 1:14:29 | 44.95 | 41.35 | 1,198 | 0.29 | 0.36 | 65.5 |
| 4/29/2015 1:14:29 | 45.28 | 41.68 | 1,187 | 0.29 | 0.37 | 64.9 |
| 4/29/2015 1:14:30 | 45.60 | 42.00 | 1,187 | 0.29 | 0.37 | 64.9 |
| 4/29/2015 1:14:30 | 45.93 | 42.33 | 1,203 | 0.30 | 0.36 | 65.8 |
| 4/29/2015 1:14:30 | 46.26 | 42.66 | 1,203 | 0.30 | 0.36 | 65.8 |
| 4/29/2015 1:14:31 | 46.59 | 42.99 | 1,196 | 0.29 | 0.36 | 65.4 |
| 4/29/2015 1:14:31 | 46.92 | 43.32 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/29/2015 1:14:32 | 47.24 | 43.64 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/29/2015 1:14:32 | 47.57 | 43.97 | 1,184 | 0.31 | 0.36 | 64.7 |
| 4/29/2015 1:14:32 | 47.90 | 44.30 | 1,184 | 0.31 | 0.36 | 64.7 |
| 4/29/2015 1:14:32 | 48.23 | 44.63 | 1,184 | 0.30 | 0.36 | 64.7 |
| 4/29/2015 1:14:33 | 48.56 | 44.96 | 1,184 | 0.30 | 0.36 | 64.7 |
| 4/29/2015 1:14:33 | 48.88 | 45.28 | 1,201 | 0.30 | 0.37 | 65.7 |
| 4/29/2015 1:14:33 | 49.21 | 45.61 | 1,192 | 0.29 | 0.37 | 65.2 |
| 4/29/2015 1:14:34 | 49.54 | 45.94 | 1,192 | 0.29 | 0.37 | 65.2 |
| 4/29/2015 1:14:34 | 49.87 | 46.27 | 1,188 | 0.30 | 0.36 | 65.0 |
| 4/29/2015 1:14:34 | 50.20 | 46.60 | 1,188 | 0.30 | 0.36 | 65.0 |
| 4/29/2015 1:14:37 | 50.53 | 46.93 | 308 | 6.07 | 0.42 | 16.8 |
| 4/29/2015 1:14:39 | 50.85 | 47.25 | 73 | 2.99 | 0.46 | 4.0 |
| 4/29/2015 1:14:41 | 51.18 | 47.58 | 175 | 3.32 | 0.42 | 9.5 |
| 4/29/2015 1:14:45 | 51.51 | 47.91 | 50 | 2.99 | 0.45 | 2.7 |
| 4/29/2015 1:14:48 | 51.84 | 48.24 | 99 | 3.88 | 0.46 | 5.4 |
| 4/29/2015 1:14:50 | 52.17 | 48.57 | 149 | 3.76 | 0.46 | 8.1 |
| 4/29/2015 1:14:53 | 52.49 | 48.89 | 132 | 3.40 | 0.46 | 7.2 |
| 4/29/2015 1:14:57 | 52.82 | 49.22 | 114 | 3.45 | 0.44 | 6.2 |
| 4/29/2015 1:14:59 | 53.15 | 49.55 | 210 | 3.06 | 0.45 | 11.5 |
| 4/29/2015 1:15:01 | 53.48 | 49.88 | 187 | 3.18 | 0.46 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:15:04 | 53.81 | 50.21 | 119 | 3.08 | 0.45 | 6.5 |
| 4/29/2015 | 1:15:08 | 54.13 | 50.53 | 87 | 3.27 | 0.46 | 4.7 |
| 4/29/2015 | 1:15:14 | 54.46 | 50.86 | 52 | 3.05 | 0.46 | 2.9 |
| 4/29/2015 | 1:15:21 | 54.79 | 51.19 | 55 | 3.05 | 0.46 | 3.0 |
| 4/29/2015 | 1:15:26 | 55.12 | 51.52 | 78 | 3.62 | 0.45 | 4.3 |
| 4/29/2015 | 1:15:31 | 55.45 | 51.85 | 69 | 3.37 | 0.46 | 3.8 |
| 4/29/2015 | 1:15:37 | 55.77 | 52.17 | 61 | 2.92 | 0.46 | 3.3 |
| 4/29/2015 | 1:15:42 | 56.10 | 52.50 | 66 | 2.95 | 0.46 | 3.6 |
| 4/29/2015 | 1:15:48 | 56.43 | 52.83 | 58 | 3.67 | 0.46 | 3.2 |
| 4/29/2015 | 1:15:48 | 56.50 | 52.90 | 64 | 3.59 | 0.47 | 3.5 |

## I41 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:12:50

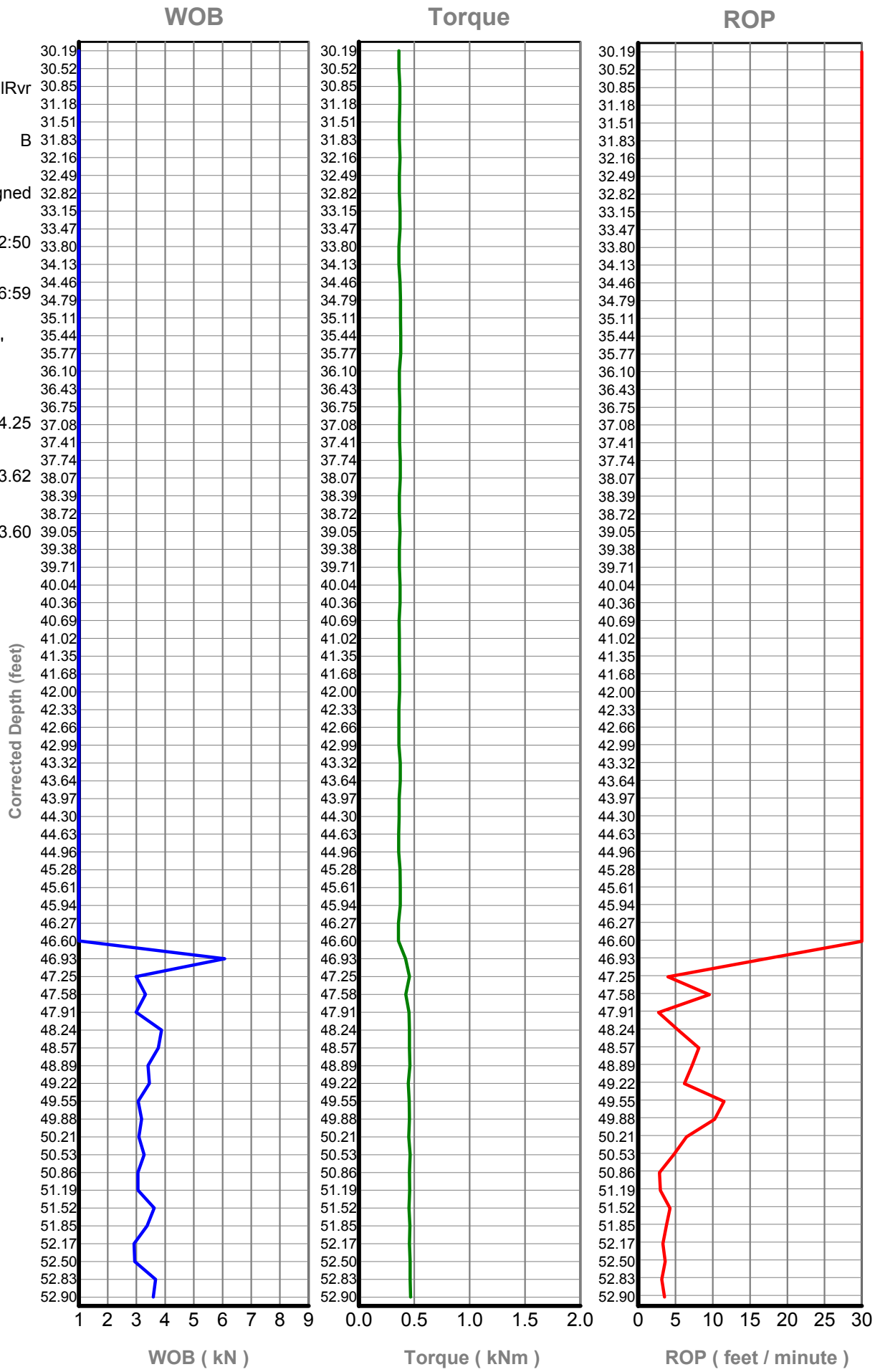
**End Date:**
4/29/2015 1:16:59

**Operator Note:**
'3.6 3.8b Auto Complete'

**Northing:**
364,374.25

**Easting:**
247,913.62

**Tide (feet):**
3.60



## Hole: I42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:13:31 | 33.79 | 30.19 | 744 | 1.64 | 0.13 | 40.7 |
| 4/29/2015 1:13:32 | 34.12 | 30.52 | 744 | 1.64 | 0.13 | 40.7 |
| 4/29/2015 1:13:32 | 34.45 | 30.85 | 735 | 1.62 | 0.13 | 40.2 |
| 4/29/2015 1:13:32 | 34.78 | 31.18 | 735 | 1.63 | 0.14 | 40.2 |
| 4/29/2015 1:13:33 | 35.11 | 31.51 | 735 | 1.63 | 0.14 | 40.2 |
| 4/29/2015 1:13:33 | 35.43 | 31.83 | 714 | 1.62 | 0.14 | 39.1 |
| 4/29/2015 1:13:33 | 35.76 | 32.16 | 714 | 1.44 | 0.14 | 39.1 |
| 4/29/2015 1:13:34 | 36.09 | 32.49 | 714 | 1.44 | 0.14 | 39.1 |
| 4/29/2015 1:13:34 | 36.42 | 32.82 | 883 | 1.62 | 0.14 | 48.3 |
| 4/29/2015 1:13:34 | 36.75 | 33.15 | 1,066 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 1:13:35 | 37.07 | 33.47 | 1,066 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 1:13:35 | 37.40 | 33.80 | 1,068 | 1.63 | 0.14 | 58.4 |
| 4/29/2015 1:13:35 | 37.73 | 34.13 | 1,068 | 1.63 | 0.14 | 58.4 |
| 4/29/2015 1:13:35 | 38.06 | 34.46 | 1,071 | 1.62 | 0.14 | 58.6 |
| 4/29/2015 1:13:36 | 38.39 | 34.79 | 1,089 | 1.63 | 0.15 | 59.6 |
| 4/29/2015 1:13:36 | 38.71 | 35.11 | 1,089 | 1.63 | 0.15 | 59.6 |
| 4/29/2015 1:13:36 | 39.04 | 35.44 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:13:37 | 39.37 | 35.77 | 1,069 | 1.64 | 0.14 | 58.4 |
| 4/29/2015 1:13:37 | 39.70 | 36.10 | 1,069 | 1.64 | 0.14 | 58.4 |
| 4/29/2015 1:13:37 | 40.03 | 36.43 | 1,075 | 1.61 | 0.14 | 58.8 |
| 4/29/2015 1:13:38 | 40.35 | 36.75 | 1,072 | 1.63 | 0.14 | 58.6 |
| 4/29/2015 1:13:38 | 40.68 | 37.08 | 1,072 | 1.63 | 0.14 | 58.6 |
| 4/29/2015 1:13:38 | 41.01 | 37.41 | 1,072 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:13:39 | 41.34 | 37.74 | 1,072 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:13:39 | 41.67 | 38.07 | 1,075 | 1.65 | 0.14 | 58.8 |
| 4/29/2015 1:13:39 | 41.99 | 38.39 | 1,078 | 1.64 | 0.14 | 59.0 |
| 4/29/2015 1:13:40 | 42.32 | 38.72 | 1,078 | 1.64 | 0.14 | 59.0 |
| 4/29/2015 1:13:40 | 42.65 | 39.05 | 1,075 | 1.62 | 0.14 | 58.8 |
| 4/29/2015 1:13:41 | 42.98 | 39.38 | 1,072 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:13:41 | 43.31 | 39.71 | 1,072 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:13:41 | 43.64 | 40.04 | 1,060 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 1:13:41 | 43.96 | 40.36 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 1:13:42 | 44.29 | 40.69 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 1:13:42 | 44.62 | 41.02 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 1:13:42 | 44.95 | 41.35 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 1:13:43 | 45.28 | 41.68 | 1,071 | 1.63 | 0.14 | 58.6 |
| 4/29/2015 1:13:43 | 45.60 | 42.00 | 1,062 | 1.64 | 0.14 | 58.1 |
| 4/29/2015 1:13:44 | 45.93 | 42.33 | 1,062 | 1.64 | 0.14 | 58.1 |
| 4/29/2015 1:13:44 | 46.26 | 42.66 | 1,068 | 1.64 | 0.14 | 58.4 |
| 4/29/2015 1:13:44 | 46.59 | 42.99 | 1,081 | 1.64 | 0.14 | 59.1 |
| 4/29/2015 1:13:45 | 46.92 | 43.32 | 1,081 | 1.64 | 0.14 | 59.1 |
| 4/29/2015 1:13:45 | 47.24 | 43.64 | 1,065 | 1.64 | 0.14 | 58.2 |
| 4/29/2015 1:13:45 | 47.57 | 43.97 | 1,067 | 1.66 | 0.14 | 58.3 |
| 4/29/2015 1:13:46 | 47.90 | 44.30 | 1,067 | 1.66 | 0.14 | 58.3 |
| 4/29/2015 1:13:46 | 48.23 | 44.63 | 1,070 | 1.62 | 0.14 | 58.5 |
| 4/29/2015 1:13:46 | 48.56 | 44.96 | 1,070 | 1.64 | 0.14 | 58.5 |
| 4/29/2015 1:13:47 | 48.88 | 45.28 | 1,070 | 1.64 | 0.14 | 58.5 |
| 4/29/2015 1:13:47 | 49.21 | 45.61 | 1,067 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 1:13:47 | 49.54 | 45.94 | 1,067 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 1:13:47 | 49.87 | 46.27 | 1,070 | 1.65 | 0.14 | 58.5 |
| 4/29/2015 1:13:48 | 50.20 | 46.60 | 1,073 | 1.62 | 0.14 | 58.7 |
| 4/29/2015 1:13:48 | 50.53 | 46.93 | 1,073 | 1.62 | 0.14 | 58.7 |
| 4/29/2015 1:13:59 | 50.85 | 47.25 | 62 | 1.67 | 1.33 | 3.4 |
| 4/29/2015 1:14:00 | 51.18 | 47.58 | 150 | 1.72 | 1.14 | 8.2 |
| 4/29/2015 1:14:01 | 51.51 | 47.91 | 340 | 1.62 | 1.16 | 18.6 |
| 4/29/2015 1:14:06 | 51.84 | 48.24 | 108 | 1.63 | 1.34 | 5.9 |
| 4/29/2015 1:14:09 | 52.17 | 48.57 | 116 | 1.63 | 1.31 | 6.3 |
| 4/29/2015 1:14:13 | 52.49 | 48.89 | 106 | 1.64 | 1.43 | 5.8 |
| 4/29/2015 1:14:38 | 52.82 | 49.22 | 40 | 1.63 | 1.30 | 2.2 |
| 4/29/2015 1:14:43 | 53.15 | 49.55 | 75 | 1.64 | 1.32 | 4.1 |
| 4/29/2015 1:14:49 | 53.48 | 49.88 | 61 | 1.68 | 1.35 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:14:55 | 53.81 | 50.21 | 69 | 1.66 | 1.35 | 3.8 |
| 4/29/2015 | 1:15:00 | 54.13 | 50.53 | 58 | 1.66 | 1.31 | 3.2 |
| 4/29/2015 | 1:15:06 | 54.46 | 50.86 | 61 | 1.56 | 1.13 | 3.3 |
| 4/29/2015 | 1:15:07 | 54.65 | 51.05 | 118 | 1.66 | 1.34 | 6.5 |

## I42 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:12:12

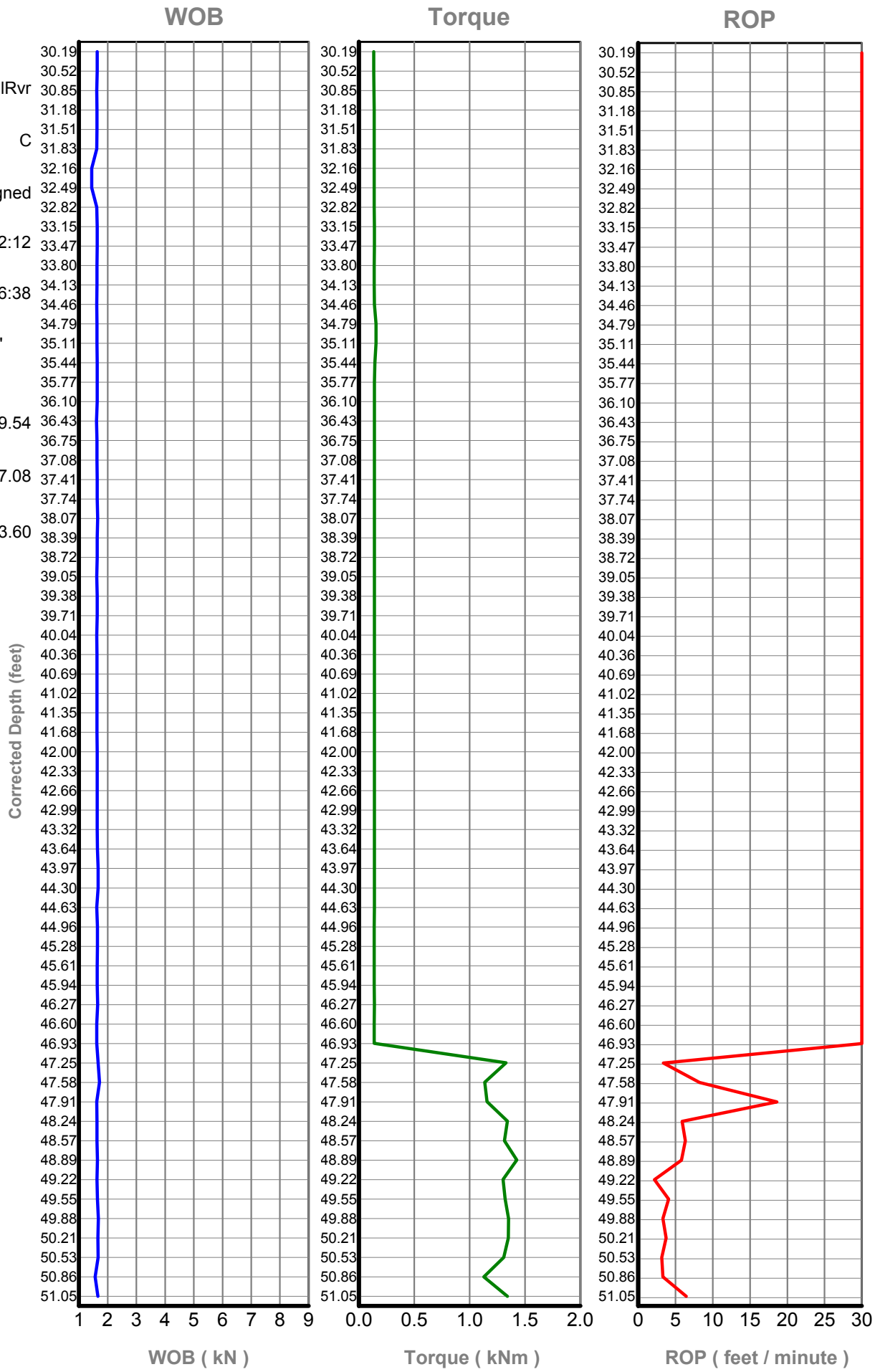
**End Date:**
4/29/2015 1:16:38

**Operator Note:**
'3.6 2.8c Auto Complete'

**Northing:**
364,419.54

**Easting:**
247,967.08

**Tide (feet):**
3.60



## Hole: I43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:27:13 | 35.76 | 30.26 | 744 | 1.08 | 0.19 | 40.7 |
| 4/28/2015 23:27:13 | 36.09 | 30.59 | 728 | 1.09 | 0.19 | 39.8 |
| 4/28/2015 23:27:14 | 36.42 | 30.92 | 728 | 1.09 | 0.19 | 39.8 |
| 4/28/2015 23:27:14 | 36.75 | 31.25 | 728 | 1.09 | 0.19 | 39.8 |
| 4/28/2015 23:27:14 | 37.07 | 31.57 | 734 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:27:15 | 37.40 | 31.90 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:27:15 | 37.73 | 32.23 | 738 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:27:16 | 38.06 | 32.56 | 738 | 1.06 | 0.19 | 40.3 |
| 4/28/2015 23:27:16 | 38.39 | 32.89 | 739 | 1.09 | 0.19 | 40.4 |
| 4/28/2015 23:27:17 | 38.71 | 33.21 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:27:18 | 39.04 | 33.54 | 753 | 1.08 | 0.19 | 41.2 |
| 4/28/2015 23:27:18 | 39.37 | 33.87 | 739 | 1.08 | 0.19 | 40.4 |
| 4/28/2015 23:27:19 | 39.70 | 34.20 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:27:19 | 40.03 | 34.53 | 742 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:27:20 | 40.35 | 34.85 | 742 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:27:20 | 40.68 | 35.18 | 742 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:27:20 | 41.01 | 35.51 | 749 | 1.08 | 0.19 | 40.9 |
| 4/28/2015 23:27:21 | 41.34 | 35.84 | 729 | 1.11 | 0.21 | 39.8 |
| 4/28/2015 23:27:21 | 41.67 | 36.17 | 729 | 1.07 | 0.19 | 39.8 |
| 4/28/2015 23:27:22 | 41.99 | 36.49 | 726 | 1.08 | 0.19 | 39.7 |
| 4/28/2015 23:27:22 | 42.32 | 36.82 | 737 | 1.08 | 0.19 | 40.3 |
| 4/28/2015 23:27:23 | 42.65 | 37.15 | 741 | 1.08 | 0.19 | 40.5 |
| 4/28/2015 23:27:23 | 42.98 | 37.48 | 732 | 1.09 | 0.20 | 40.0 |
| 4/28/2015 23:27:24 | 43.31 | 37.81 | 748 | 1.08 | 0.20 | 40.9 |
| 4/28/2015 23:27:24 | 43.64 | 38.14 | 738 | 1.08 | 0.19 | 40.3 |
| 4/28/2015 23:27:25 | 43.96 | 38.46 | 739 | 1.06 | 0.19 | 40.4 |
| 4/28/2015 23:27:25 | 44.29 | 38.79 | 734 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:27:26 | 44.62 | 39.12 | 734 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:27:27 | 44.95 | 39.45 | 734 | 1.08 | 0.19 | 40.2 |
| 4/28/2015 23:27:27 | 45.28 | 39.78 | 734 | 1.08 | 0.19 | 40.2 |
| 4/28/2015 23:27:27 | 45.60 | 40.10 | 729 | 1.07 | 0.19 | 39.9 |
| 4/28/2015 23:27:28 | 45.93 | 40.43 | 741 | 1.07 | 0.19 | 40.5 |
| 4/28/2015 23:27:28 | 46.26 | 40.76 | 719 | 1.09 | 0.19 | 39.3 |
| 4/28/2015 23:27:29 | 46.59 | 41.09 | 719 | 1.07 | 0.19 | 39.3 |
| 4/28/2015 23:27:29 | 46.92 | 41.42 | 730 | 1.08 | 0.19 | 39.9 |
| 4/28/2015 23:27:30 | 47.24 | 41.74 | 731 | 1.08 | 0.19 | 39.9 |
| 4/28/2015 23:27:30 | 47.57 | 42.07 | 732 | 1.08 | 0.19 | 40.0 |
| 4/28/2015 23:27:31 | 47.90 | 42.40 | 729 | 1.07 | 0.19 | 39.9 |
| 4/28/2015 23:27:31 | 48.23 | 42.73 | 747 | 1.05 | 0.19 | 40.8 |
| 4/28/2015 23:27:32 | 48.56 | 43.06 | 735 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:27:32 | 48.88 | 43.38 | 735 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:27:33 | 49.21 | 43.71 | 742 | 1.07 | 0.19 | 40.6 |
| 4/28/2015 23:27:33 | 49.54 | 44.04 | 733 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:27:34 | 49.87 | 44.37 | 733 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:27:34 | 50.20 | 44.70 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:27:34 | 50.53 | 45.03 | 734 | 1.08 | 0.19 | 40.2 |
| 4/28/2015 23:27:35 | 50.85 | 45.35 | 734 | 1.08 | 0.19 | 40.2 |
| 4/28/2015 23:27:35 | 51.18 | 45.68 | 731 | 1.05 | 0.19 | 40.0 |
| 4/28/2015 23:27:36 | 51.51 | 46.01 | 731 | 1.08 | 0.19 | 40.0 |
| 4/28/2015 23:27:36 | 51.84 | 46.34 | 731 | 1.07 | 0.19 | 40.0 |
| 4/28/2015 23:27:37 | 52.17 | 46.67 | 731 | 1.05 | 0.19 | 40.0 |
| 4/28/2015 23:27:38 | 52.49 | 46.99 | 724 | 1.08 | 0.19 | 39.6 |
| 4/28/2015 23:27:38 | 52.82 | 47.32 | 727 | 1.12 | 0.18 | 39.8 |
| 4/28/2015 23:27:56 | 53.15 | 47.65 | 83 | 1.08 | 1.17 | 4.5 |
| 4/28/2015 23:27:57 | 53.48 | 47.98 | 226 | 1.12 | 1.21 | 12.3 |
| 4/28/2015 23:28:00 | 53.81 | 48.31 | 176 | 1.07 | 1.35 | 9.6 |
| 4/28/2015 23:28:03 | 54.13 | 48.63 | 118 | 1.11 | 1.11 | 6.4 |
| 4/28/2015 23:28:04 | 54.46 | 48.96 | 151 | 1.12 | 1.45 | 8.3 |
| 4/28/2015 23:28:06 | 54.79 | 49.29 | 228 | 1.10 | 1.17 | 12.5 |
| 4/28/2015 23:28:07 | 55.12 | 49.62 | 256 | 1.13 | 0.90 | 14.0 |
| 4/28/2015 23:28:09 | 55.45 | 49.95 | 257 | 1.14 | 0.92 | 14.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:28:22 | 55.77 | 50.27 | 23 | 1.10 | 1.24 | 1.3 |
| 4/28/2015 | 23:28:27 | 56.10 | 50.60 | 70 | 1.03 | 1.01 | 3.8 |
| 4/28/2015 | 23:28:33 | 56.43 | 50.93 | 75 | 1.05 | 1.18 | 4.1 |
| 4/28/2015 | 23:28:37 | 56.76 | 51.26 | 111 | 1.02 | 0.93 | 6.0 |
| 4/28/2015 | 23:28:42 | 57.09 | 51.59 | 61 | 1.10 | 1.19 | 3.3 |
| 4/28/2015 | 23:28:48 | 57.41 | 51.91 | 61 | 1.08 | 1.16 | 3.3 |
| 4/28/2015 | 23:28:56 | 57.74 | 52.24 | 49 | 1.10 | 1.04 | 2.7 |
| 4/28/2015 | 23:29:03 | 58.07 | 52.57 | 52 | 1.07 | 1.02 | 2.8 |
| 4/28/2015 | 23:29:08 | 58.40 | 52.90 | 60 | 1.15 | 1.14 | 3.3 |
| 4/28/2015 | 23:29:11 | 58.52 | 53.02 | 56 | 1.21 | 1.21 | 3.1 |

## I43 - Summary

**Pattern Number:**
Area1_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:25:04

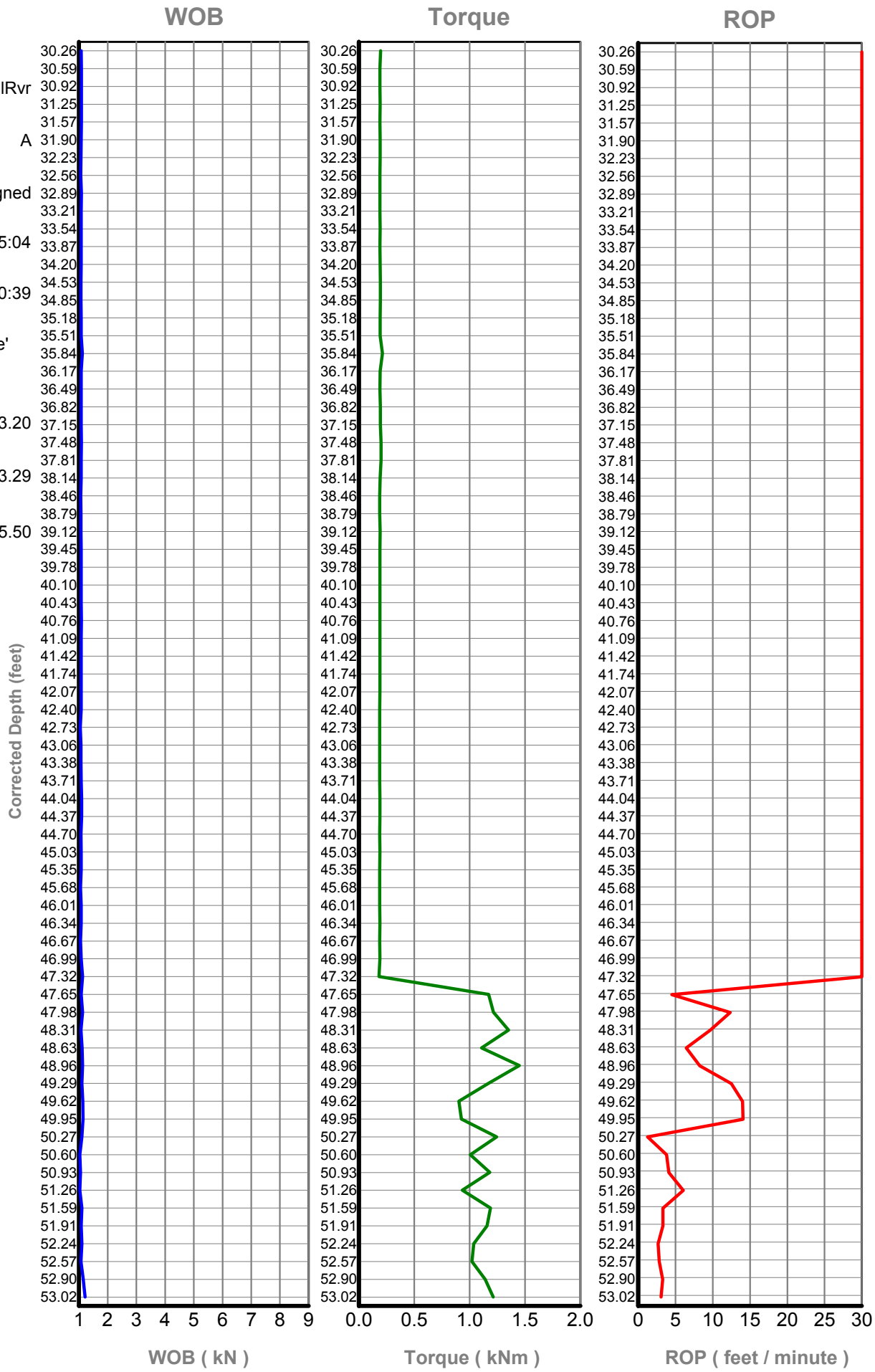
**End Date:**
4/28/2015 23:30:39

**Operator Note:**
'5.5 5.5 b Auto Complete'

**Northing:**
364,473.20

**Easting:**
248,033.29

**Tide (feet):**
5.50



## Hole: I44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:29:06 | 35.43 | 30.03 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/28/2015 23:29:07 | 35.76 | 30.36 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/28/2015 23:29:07 | 36.09 | 30.69 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:07 | 36.42 | 31.02 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:07 | 36.75 | 31.35 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/28/2015 23:29:08 | 37.07 | 31.67 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/28/2015 23:29:08 | 37.40 | 32.00 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/28/2015 23:29:08 | 37.73 | 32.33 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/28/2015 23:29:09 | 38.06 | 32.66 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/28/2015 23:29:09 | 38.39 | 32.99 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:09 | 38.71 | 33.31 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:09 | 39.04 | 33.64 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/28/2015 23:29:10 | 39.37 | 33.97 | 1,184 | 0.21 | 0.37 | 64.8 |
| 4/28/2015 23:29:10 | 39.70 | 34.30 | 1,184 | 0.21 | 0.37 | 64.8 |
| 4/28/2015 23:29:10 | 40.03 | 34.63 | 1,179 | 0.29 | 0.38 | 64.5 |
| 4/28/2015 23:29:11 | 40.35 | 34.95 | 1,179 | 0.29 | 0.38 | 64.5 |
| 4/28/2015 23:29:11 | 40.68 | 35.28 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/28/2015 23:29:11 | 41.01 | 35.61 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/28/2015 23:29:11 | 41.34 | 35.94 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/28/2015 23:29:12 | 41.67 | 36.27 | 1,194 | 0.29 | 0.36 | 65.3 |
| 4/28/2015 23:29:12 | 41.99 | 36.59 | 1,194 | 0.29 | 0.36 | 65.3 |
| 4/28/2015 23:29:12 | 42.32 | 36.92 | 1,201 | 0.30 | 0.38 | 65.7 |
| 4/28/2015 23:29:13 | 42.65 | 37.25 | 1,201 | 0.30 | 0.38 | 65.7 |
| 4/28/2015 23:29:13 | 42.98 | 37.58 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/28/2015 23:29:13 | 43.31 | 37.91 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/28/2015 23:29:13 | 43.64 | 38.24 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/28/2015 23:29:14 | 43.96 | 38.56 | 1,191 | 0.30 | 0.37 | 65.1 |
| 4/28/2015 23:29:15 | 44.29 | 38.89 | 1,191 | 0.30 | 0.37 | 65.1 |
| 4/28/2015 23:29:15 | 44.62 | 39.22 | 1,184 | 0.30 | 0.37 | 64.7 |
| 4/28/2015 23:29:15 | 44.95 | 39.55 | 1,184 | 0.30 | 0.37 | 64.7 |
| 4/28/2015 23:29:15 | 45.28 | 39.88 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/28/2015 23:29:16 | 45.60 | 40.20 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/28/2015 23:29:16 | 45.93 | 40.53 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/28/2015 23:29:16 | 46.26 | 40.86 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/28/2015 23:29:17 | 46.59 | 41.19 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/28/2015 23:29:17 | 46.92 | 41.52 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/28/2015 23:29:17 | 47.24 | 41.84 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/28/2015 23:29:17 | 47.57 | 42.17 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/28/2015 23:29:18 | 47.90 | 42.50 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/28/2015 23:29:18 | 48.23 | 42.83 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/28/2015 23:29:18 | 48.56 | 43.16 | 1,194 | 0.32 | 0.37 | 65.3 |
| 4/28/2015 23:29:19 | 48.88 | 43.48 | 1,194 | 0.32 | 0.37 | 65.3 |
| 4/28/2015 23:29:19 | 49.21 | 43.81 | 1,189 | 0.29 | 0.36 | 65.0 |
| 4/28/2015 23:29:19 | 49.54 | 44.14 | 1,189 | 0.29 | 0.36 | 65.0 |
| 4/28/2015 23:29:19 | 49.87 | 44.47 | 1,189 | 0.58 | 0.37 | 65.0 |
| 4/28/2015 23:29:20 | 50.20 | 44.80 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:20 | 50.53 | 45.13 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/28/2015 23:29:20 | 50.85 | 45.45 | 1,191 | 0.29 | 0.35 | 65.1 |
| 4/28/2015 23:29:21 | 51.18 | 45.78 | 1,191 | 0.29 | 0.35 | 65.1 |
| 4/28/2015 23:29:21 | 51.51 | 46.11 | 1,188 | 0.30 | 0.38 | 65.0 |
| 4/28/2015 23:29:21 | 51.84 | 46.44 | 1,188 | 0.30 | 0.38 | 65.0 |
| 4/28/2015 23:29:21 | 52.17 | 46.77 | 1,188 | 0.31 | 0.37 | 65.0 |
| 4/28/2015 23:29:22 | 52.49 | 47.09 | 1,192 | 0.29 | 0.37 | 65.2 |
| 4/28/2015 23:29:22 | 52.82 | 47.42 | 1,192 | 0.29 | 0.37 | 65.2 |
| 4/28/2015 23:29:22 | 53.15 | 47.75 | 1,185 | 0.29 | 0.41 | 64.8 |
| 4/28/2015 23:29:26 | 53.48 | 48.08 | 0 | 4.72 | 0.42 | 0.0 |
| 4/28/2015 23:29:28 | 53.81 | 48.41 | 140 | 5.53 | 0.54 | 7.7 |
| 4/28/2015 23:29:32 | 54.13 | 48.73 | 29 | 3.15 | 0.42 | 1.6 |
| 4/28/2015 23:29:34 | 54.46 | 49.06 | 145 | 5.28 | 0.50 | 7.9 |
| 4/28/2015 23:29:39 | 54.79 | 49.39 | 72 | 4.96 | 0.46 | 4.0 |
| 4/28/2015 23:29:40 | 55.12 | 49.72 | 118 | 2.86 | 0.42 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:29:41 | 55.45 | 50.05 | 180 | 2.48 | 0.41 | 9.8 |
| 4/28/2015 | 23:29:46 | 55.77 | 50.37 | 11 | 2.50 | 0.45 | 0.6 |
| 4/28/2015 | 23:29:47 | 56.10 | 50.70 | 195 | 2.51 | 0.44 | 10.7 |
| 4/28/2015 | 23:29:48 | 56.43 | 51.03 | 334 | 2.63 | 0.43 | 18.3 |
| 4/28/2015 | 23:29:50 | 56.76 | 51.36 | 330 | 3.07 | 0.45 | 18.0 |
| 4/28/2015 | 23:29:52 | 57.09 | 51.69 | 136 | 3.02 | 0.46 | 7.4 |
| 4/28/2015 | 23:29:58 | 57.41 | 52.01 | 74 | 3.43 | 0.46 | 4.0 |
| 4/28/2015 | 23:30:02 | 57.74 | 52.34 | 84 | 3.64 | 0.46 | 4.6 |
| 4/28/2015 | 23:30:05 | 58.07 | 52.67 | 104 | 3.79 | 0.46 | 5.7 |
| 4/28/2015 | 23:30:42 | 58.40 | 53.00 | 38 | 3.89 | 0.47 | 2.1 |
| 4/28/2015 | 23:30:47 | 58.73 | 53.33 | 98 | 3.41 | 0.46 | 5.3 |
| 4/28/2015 | 23:30:50 | 59.06 | 53.66 | 139 | 3.56 | 0.45 | 7.6 |
| 4/28/2015 | 23:30:53 | 59.38 | 53.98 | 138 | 3.89 | 0.44 | 7.5 |
| 4/28/2015 | 23:30:55 | 59.71 | 54.31 | 133 | 3.22 | 0.46 | 7.3 |
| 4/28/2015 | 23:30:58 | 60.04 | 54.64 | 139 | 2.84 | 0.47 | 7.6 |
| 4/28/2015 | 23:31:01 | 60.37 | 54.97 | 107 | 3.61 | 0.45 | 5.8 |
| 4/28/2015 | 23:31:06 | 60.70 | 55.30 | 56 | 3.28 | 0.46 | 3.1 |
| 4/28/2015 | 23:31:07 | 60.81 | 55.41 | 66 | 4.11 | 0.46 | 3.6 |

## I44 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:28:01

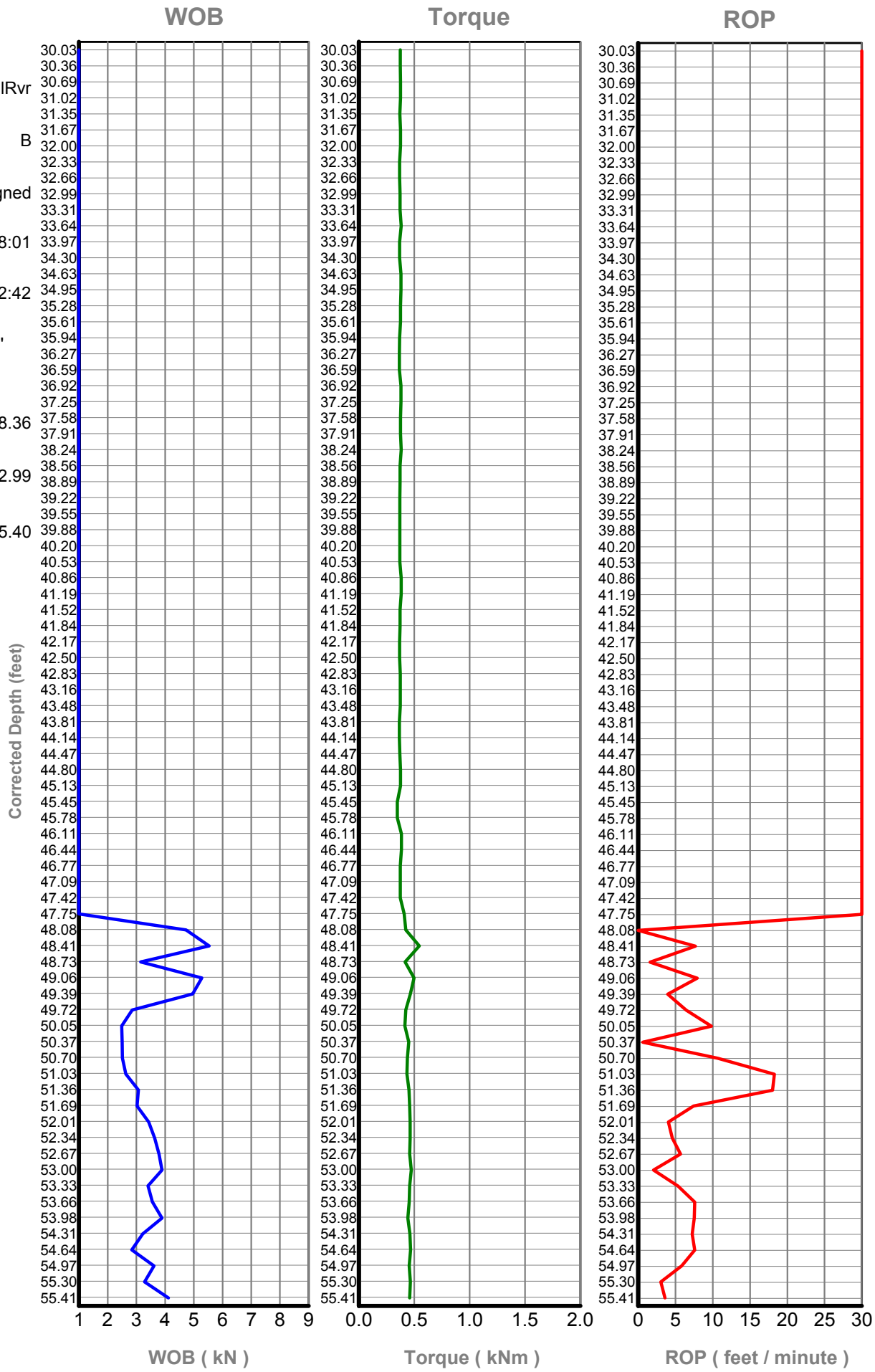
**End Date:**
4/28/2015 23:32:42

**Operator Note:**
'5.4 5.5b Auto Complete'

**Northing:**
364,518.36

**Easting:**
248,092.99

**Tide (feet):**
5.40



## Hole: I45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:27:27 | 35.76 | 30.26 | 1,072 | 1.59 | 0.13 | 58.6 |
| 4/28/2015 23:27:28 | 36.09 | 30.59 | 1,072 | 1.59 | 0.13 | 58.6 |
| 4/28/2015 23:27:28 | 36.42 | 30.92 | 1,081 | 1.60 | 0.13 | 59.1 |
| 4/28/2015 23:27:28 | 36.75 | 31.25 | 1,088 | 1.59 | 0.13 | 59.5 |
| 4/28/2015 23:27:29 | 37.07 | 31.57 | 1,088 | 1.59 | 0.13 | 59.5 |
| 4/28/2015 23:27:29 | 37.40 | 31.90 | 1,081 | 1.60 | 0.13 | 59.1 |
| 4/28/2015 23:27:29 | 37.73 | 32.23 | 1,081 | 1.59 | 0.13 | 59.1 |
| 4/28/2015 23:27:30 | 38.06 | 32.56 | 1,081 | 1.59 | 0.13 | 59.1 |
| 4/28/2015 23:27:30 | 38.39 | 32.89 | 1,091 | 1.59 | 0.13 | 59.6 |
| 4/28/2015 23:27:30 | 38.71 | 33.21 | 1,091 | 1.59 | 0.13 | 59.6 |
| 4/28/2015 23:27:30 | 39.04 | 33.54 | 1,078 | 1.59 | 0.13 | 59.0 |
| 4/28/2015 23:27:31 | 39.37 | 33.87 | 1,060 | 1.60 | 0.13 | 58.0 |
| 4/28/2015 23:27:31 | 39.70 | 34.20 | 1,060 | 1.60 | 0.13 | 58.0 |
| 4/28/2015 23:27:31 | 40.03 | 34.53 | 1,060 | 1.62 | 0.13 | 58.0 |
| 4/28/2015 23:27:32 | 40.35 | 34.85 | 1,068 | 1.59 | 0.13 | 58.4 |
| 4/28/2015 23:27:32 | 40.68 | 35.18 | 1,068 | 1.59 | 0.13 | 58.4 |
| 4/28/2015 23:27:33 | 41.01 | 35.51 | 1,071 | 1.62 | 0.13 | 58.6 |
| 4/28/2015 23:27:33 | 41.34 | 35.84 | 1,030 | 1.59 | 0.13 | 56.3 |
| 4/28/2015 23:27:33 | 41.67 | 36.17 | 1,030 | 1.59 | 0.13 | 56.3 |
| 4/28/2015 23:27:34 | 41.99 | 36.49 | 1,030 | 1.60 | 0.13 | 56.3 |
| 4/28/2015 23:27:34 | 42.32 | 36.82 | 1,030 | 1.60 | 0.13 | 56.3 |
| 4/28/2015 23:27:34 | 42.65 | 37.15 | 1,060 | 1.58 | 0.13 | 57.9 |
| 4/28/2015 23:27:35 | 42.98 | 37.48 | 1,035 | 1.59 | 0.12 | 56.6 |
| 4/28/2015 23:27:35 | 43.31 | 37.81 | 1,035 | 1.59 | 0.12 | 56.6 |
| 4/28/2015 23:27:35 | 43.64 | 38.14 | 1,035 | 1.59 | 0.13 | 56.6 |
| 4/28/2015 23:27:36 | 43.96 | 38.46 | 1,048 | 1.61 | 0.13 | 57.3 |
| 4/28/2015 23:27:36 | 44.29 | 38.79 | 1,048 | 1.61 | 0.13 | 57.3 |
| 4/28/2015 23:27:36 | 44.62 | 39.12 | 1,018 | 1.60 | 0.13 | 55.7 |
| 4/28/2015 23:27:37 | 44.95 | 39.45 | 1,018 | 1.62 | 0.13 | 55.7 |
| 4/28/2015 23:27:37 | 45.28 | 39.78 | 1,018 | 1.62 | 0.13 | 55.7 |
| 4/28/2015 23:27:37 | 45.60 | 40.10 | 1,058 | 1.62 | 0.13 | 57.9 |
| 4/28/2015 23:27:38 | 45.93 | 40.43 | 1,022 | 1.58 | 0.13 | 55.9 |
| 4/28/2015 23:27:38 | 46.26 | 40.76 | 1,022 | 1.58 | 0.13 | 55.9 |
| 4/28/2015 23:27:38 | 46.59 | 41.09 | 1,022 | 1.59 | 0.13 | 55.9 |
| 4/28/2015 23:27:39 | 46.92 | 41.42 | 1,022 | 1.59 | 0.13 | 55.9 |
| 4/28/2015 23:27:39 | 47.24 | 41.74 | 1,078 | 1.60 | 0.13 | 59.0 |
| 4/28/2015 23:27:39 | 47.57 | 42.07 | 1,061 | 1.59 | 0.13 | 58.0 |
| 4/28/2015 23:27:40 | 47.90 | 42.40 | 1,061 | 1.59 | 0.13 | 58.0 |
| 4/28/2015 23:27:40 | 48.23 | 42.73 | 1,060 | 1.57 | 0.13 | 58.0 |
| 4/28/2015 23:27:40 | 48.56 | 43.06 | 1,060 | 1.59 | 0.13 | 58.0 |
| 4/28/2015 23:27:41 | 48.88 | 43.38 | 1,060 | 1.59 | 0.13 | 58.0 |
| 4/28/2015 23:27:41 | 49.21 | 43.71 | 1,062 | 1.61 | 0.13 | 58.1 |
| 4/28/2015 23:27:41 | 49.54 | 44.04 | 1,062 | 1.60 | 0.13 | 58.1 |
| 4/28/2015 23:27:42 | 49.87 | 44.37 | 1,062 | 1.60 | 0.13 | 58.1 |
| 4/28/2015 23:27:42 | 50.20 | 44.70 | 1,076 | 1.59 | 0.13 | 58.8 |
| 4/28/2015 23:27:42 | 50.53 | 45.03 | 1,076 | 1.59 | 0.13 | 58.8 |
| 4/28/2015 23:27:42 | 50.85 | 45.35 | 1,064 | 1.58 | 0.13 | 58.2 |
| 4/28/2015 23:27:43 | 51.18 | 45.68 | 1,057 | 1.59 | 0.13 | 57.8 |
| 4/28/2015 23:27:44 | 51.51 | 46.01 | 1,057 | 1.59 | 0.13 | 57.8 |
| 4/28/2015 23:27:43 | 51.84 | 46.34 | 1,070 | 1.62 | 0.13 | 58.5 |
| 4/28/2015 23:27:44 | 52.17 | 46.67 | 1,070 | 1.66 | 0.14 | 58.5 |
| 4/28/2015 23:27:45 | 52.49 | 46.99 | 1,070 | 1.66 | 0.14 | 58.5 |
| 4/28/2015 23:27:55 | 52.82 | 47.32 | 46 | 1.69 | 1.21 | 2.5 |
| 4/28/2015 23:27:56 | 53.15 | 47.65 | 151 | 1.68 | 1.10 | 8.2 |
| 4/28/2015 23:27:57 | 53.48 | 47.98 | 293 | 1.67 | 1.06 | 16.0 |
| 4/28/2015 23:27:57 | 53.81 | 48.31 | 446 | 1.67 | 1.23 | 24.4 |
| 4/28/2015 23:27:58 | 54.13 | 48.63 | 592 | 1.67 | 1.09 | 32.4 |
| 4/28/2015 23:28:16 | 54.46 | 48.96 | 0 | 1.62 | 1.15 | 0.0 |
| 4/28/2015 23:28:40 | 54.79 | 49.29 | 0 | 1.69 | 1.37 | 0.0 |
| 4/28/2015 23:28:42 | 55.12 | 49.62 | 167 | 1.66 | 1.30 | 9.2 |
| 4/28/2015 23:28:43 | 55.45 | 49.95 | 241 | 1.65 | 1.36 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:28:47 | 55.77 | 50.27 | 92 | 1.64 | 1.29 | 5.0 |
| 4/28/2015 | 23:28:51 | 56.10 | 50.60 | 76 | 1.64 | 1.32 | 4.1 |
| 4/28/2015 | 23:28:58 | 56.43 | 50.93 | 49 | 1.62 | 1.25 | 2.7 |
| 4/28/2015 | 23:29:06 | 56.76 | 51.26 | 54 | 1.64 | 1.25 | 3.0 |
| 4/28/2015 | 23:29:11 | 57.09 | 51.59 | 55 | 1.67 | 1.22 | 3.0 |
| 4/28/2015 | 23:29:18 | 57.41 | 51.91 | 61 | 1.64 | 1.21 | 3.4 |
| 4/28/2015 | 23:29:23 | 57.74 | 52.24 | 61 | 1.64 | 1.24 | 3.3 |
| 4/28/2015 | 23:29:29 | 58.07 | 52.57 | 60 | 1.62 | 1.24 | 3.3 |

## I45 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:26:08

**End Date:**
4/28/2015 23:34:24

**Operator Note:**
'5.5 5.5 c Auto Complete'

**Northing:**
364,563.92

**Easting:**
248,152.87

**Tide (feet):**
5.50



## Hole: I46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:55:51 | 32.15 | 30.25 | 722 | 1.08 | 0.82 | 39.5 |
| 4/27/2015 16:55:51 | 32.48 | 30.58 | 718 | 1.08 | 0.82 | 39.3 |
| 4/27/2015 16:55:52 | 32.81 | 30.91 | 718 | 1.08 | 0.82 | 39.3 |
| 4/27/2015 16:55:52 | 33.14 | 31.24 | 723 | 1.07 | 0.82 | 39.5 |
| 4/27/2015 16:55:52 | 33.46 | 31.56 | 727 | 1.07 | 0.82 | 39.8 |
| 4/27/2015 16:55:53 | 33.79 | 31.89 | 737 | 1.07 | 0.82 | 40.3 |
| 4/27/2015 16:55:54 | 34.12 | 32.22 | 718 | 1.08 | 0.82 | 39.3 |
| 4/27/2015 16:55:54 | 34.45 | 32.55 | 734 | 1.08 | 0.81 | 40.2 |
| 4/27/2015 16:55:55 | 34.78 | 32.88 | 727 | 1.08 | 0.82 | 39.7 |
| 4/27/2015 16:55:55 | 35.11 | 33.21 | 730 | 1.07 | 0.82 | 39.9 |
| 4/27/2015 16:55:56 | 35.43 | 33.53 | 728 | 1.08 | 0.82 | 39.8 |
| 4/27/2015 16:55:56 | 35.76 | 33.86 | 743 | 1.09 | 0.81 | 40.6 |
| 4/27/2015 16:55:57 | 36.09 | 34.19 | 731 | 1.07 | 0.82 | 40.0 |
| 4/27/2015 16:55:57 | 36.42 | 34.52 | 731 | 1.09 | 0.82 | 40.0 |
| 4/27/2015 16:55:58 | 36.75 | 34.85 | 728 | 1.09 | 0.81 | 39.8 |
| 4/27/2015 16:55:58 | 37.07 | 35.17 | 728 | 1.07 | 0.82 | 39.8 |
| 4/27/2015 16:55:59 | 37.40 | 35.50 | 728 | 1.08 | 0.82 | 39.8 |
| 4/27/2015 16:55:59 | 37.73 | 35.83 | 713 | 1.09 | 0.82 | 39.0 |
| 4/27/2015 16:56:00 | 38.06 | 36.16 | 713 | 1.03 | 0.82 | 39.0 |
| 4/27/2015 16:56:00 | 38.39 | 36.49 | 713 | 1.03 | 0.82 | 39.0 |
| 4/27/2015 16:56:00 | 38.71 | 36.81 | 724 | 1.07 | 0.81 | 39.6 |
| 4/27/2015 16:56:01 | 39.04 | 37.14 | 731 | 1.08 | 0.82 | 40.0 |
| 4/27/2015 16:56:01 | 39.37 | 37.47 | 728 | 1.07 | 0.82 | 39.8 |
| 4/27/2015 16:56:02 | 39.70 | 37.80 | 716 | 1.09 | 0.82 | 39.1 |
| 4/27/2015 16:56:02 | 40.03 | 38.13 | 716 | 1.07 | 0.82 | 39.1 |
| 4/27/2015 16:56:03 | 40.35 | 38.45 | 740 | 1.07 | 0.81 | 40.5 |
| 4/27/2015 16:56:04 | 40.68 | 38.78 | 730 | 1.09 | 0.81 | 39.9 |
| 4/27/2015 16:56:04 | 41.01 | 39.11 | 721 | 1.07 | 0.82 | 39.4 |
| 4/27/2015 16:56:05 | 41.34 | 39.44 | 729 | 1.07 | 0.81 | 39.9 |
| 4/27/2015 16:56:05 | 41.67 | 39.77 | 738 | 1.08 | 0.82 | 40.4 |
| 4/27/2015 16:56:06 | 41.99 | 40.09 | 729 | 1.09 | 0.81 | 39.8 |
| 4/27/2015 16:56:06 | 42.32 | 40.42 | 706 | 1.09 | 0.81 | 38.6 |
| 4/27/2015 16:56:07 | 42.65 | 40.75 | 706 | 1.06 | 0.81 | 38.6 |
| 4/27/2015 16:56:07 | 42.98 | 41.08 | 723 | 1.08 | 0.81 | 39.5 |
| 4/27/2015 16:56:08 | 43.31 | 41.41 | 720 | 1.07 | 0.82 | 39.4 |
| 4/27/2015 16:56:08 | 43.64 | 41.74 | 715 | 1.07 | 0.81 | 39.1 |
| 4/27/2015 16:56:09 | 43.96 | 42.06 | 715 | 1.07 | 0.81 | 39.1 |
| 4/27/2015 16:56:09 | 44.29 | 42.39 | 718 | 1.07 | 0.82 | 39.3 |
| 4/27/2015 16:56:09 | 44.62 | 42.72 | 741 | 1.08 | 0.82 | 40.5 |
| 4/27/2015 16:56:10 | 44.95 | 43.05 | 728 | 1.07 | 0.80 | 39.8 |
| 4/27/2015 16:56:10 | 45.28 | 43.38 | 724 | 1.07 | 0.76 | 39.6 |
| 4/27/2015 16:56:11 | 45.60 | 43.70 | 728 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 16:56:11 | 45.93 | 44.03 | 726 | 1.09 | 0.21 | 39.7 |
| 4/27/2015 16:56:12 | 46.26 | 44.36 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 16:56:12 | 46.59 | 44.69 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 16:56:13 | 46.92 | 45.02 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 16:56:13 | 47.24 | 45.34 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 16:56:14 | 47.57 | 45.67 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 16:56:15 | 47.90 | 46.00 | 718 | 1.11 | 0.20 | 39.3 |
| 4/27/2015 16:56:23 | 48.23 | 46.33 | 3 | 1.15 | 1.03 | 0.2 |
| 4/27/2015 16:56:30 | 48.56 | 46.66 | 37 | 1.00 | 0.97 | 2.0 |
| 4/27/2015 16:56:32 | 48.88 | 46.98 | 111 | 0.34 | 0.91 | 6.0 |
| 4/27/2015 16:56:34 | 49.21 | 47.31 | 102 | 1.04 | 1.23 | 5.6 |
| 4/27/2015 16:56:36 | 49.54 | 47.64 | 193 | 0.98 | 1.30 | 10.6 |
| 4/27/2015 16:56:38 | 49.87 | 47.97 | 210 | 1.00 | 1.07 | 11.5 |
| 4/27/2015 16:56:40 | 50.20 | 48.30 | 203 | 1.11 | 0.79 | 11.1 |
| 4/27/2015 16:56:41 | 50.53 | 48.63 | 257 | 1.07 | 0.75 | 14.1 |
| 4/27/2015 16:56:41 | 50.85 | 48.95 | 261 | 1.06 | 0.77 | 14.3 |
| 4/27/2015 16:56:42 | 51.18 | 49.28 | 373 | 1.05 | 0.76 | 20.4 |
| 4/27/2015 16:56:43 | 51.51 | 49.61 | 367 | 0.97 | 0.75 | 20.1 |
| 4/27/2015 16:56:46 | 51.84 | 49.94 | 234 | 1.08 | 0.79 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:56:47 | 52.17 | 50.27 | 216 | 1.02 | 0.87 | 11.8 |
| 4/27/2015 | 16:56:48 | 52.49 | 50.59 | 255 | 1.01 | 0.92 | 14.0 |
| 4/27/2015 | 16:56:49 | 52.82 | 50.92 | 291 | 1.02 | 0.94 | 15.9 |
| 4/27/2015 | 16:56:50 | 53.15 | 51.25 | 286 | 1.02 | 0.89 | 15.7 |
| 4/27/2015 | 16:56:54 | 53.48 | 51.58 | 102 | 1.07 | 1.11 | 5.6 |
| 4/27/2015 | 16:56:58 | 53.81 | 51.91 | 81 | 1.07 | 1.27 | 4.4 |
| 4/27/2015 | 16:57:03 | 54.13 | 52.23 | 69 | 1.04 | 1.14 | 3.8 |
| 4/27/2015 | 16:57:10 | 54.46 | 52.56 | 54 | 1.05 | 1.04 | 3.0 |
| 4/27/2015 | 16:57:17 | 54.79 | 52.89 | 43 | 1.00 | 1.01 | 2.4 |
| 4/27/2015 | 16:57:27 | 55.12 | 53.22 | 38 | 1.10 | 1.02 | 2.1 |
| 4/27/2015 | 16:57:28 | 55.16 | 53.26 | 37 | 1.01 | 1.20 | 2.0 |

## I46 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:53:50

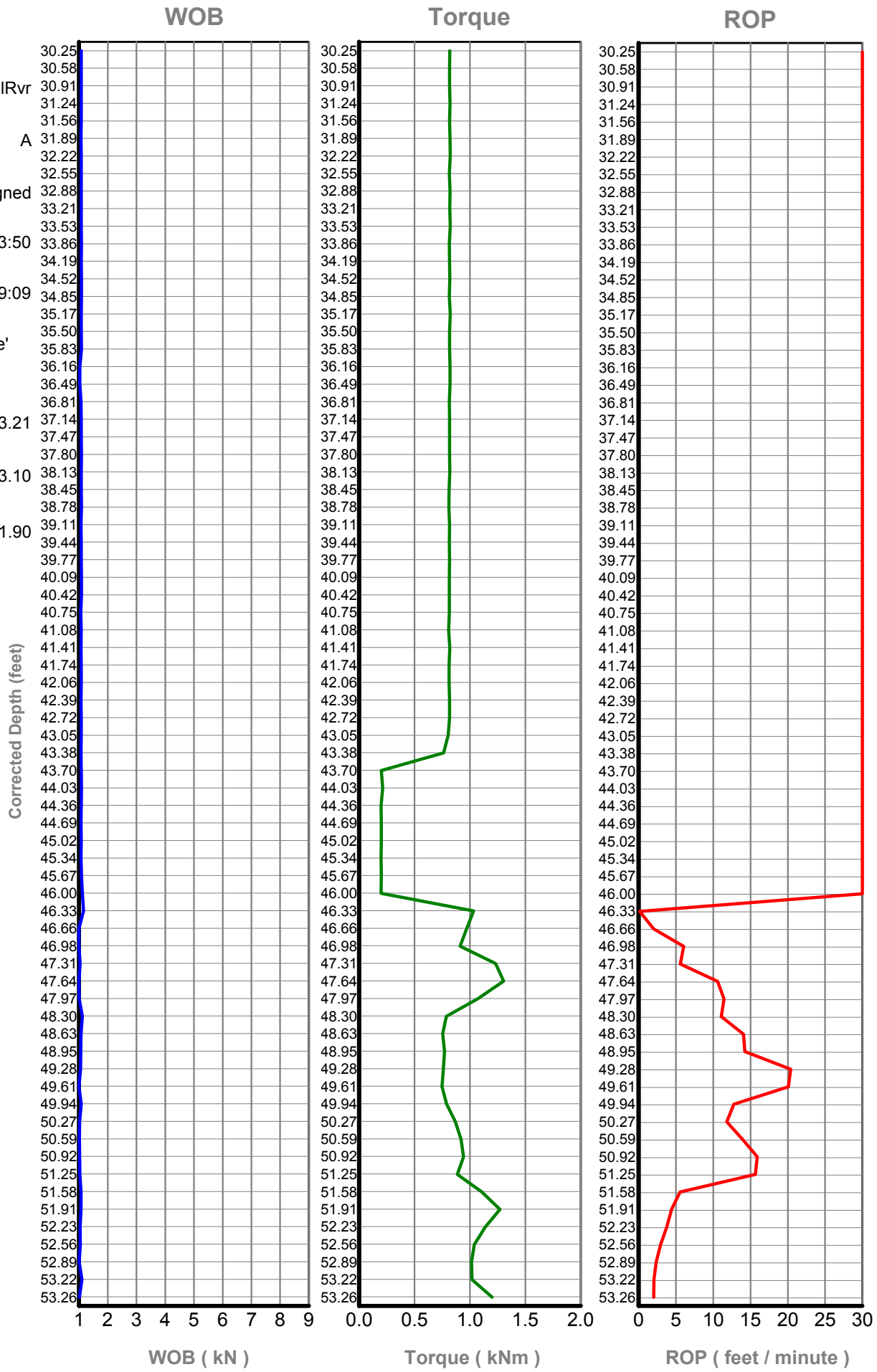
**End Date:**
4/27/2015 16:59:09

**Operator Note:**
'1.9 1.7 q Auto Complete'

**Northing:**
364,613.21

**Easting:**
248,213.10

**Tide (feet):**
1.90



## Hole: I47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:55:22 | 32.15 | 30.25 | 1,155 | 0.35 | 0.32 | 63.1 |
| 4/27/2015 16:55:22 | 32.48 | 30.58 | 1,155 | 0.35 | 0.32 | 63.1 |
| 4/27/2015 16:55:22 | 32.81 | 30.91 | 1,135 | 0.38 | 0.34 | 62.1 |
| 4/27/2015 16:55:23 | 33.14 | 31.24 | 1,135 | 0.38 | 0.34 | 62.1 |
| 4/27/2015 16:55:23 | 33.46 | 31.56 | 1,133 | 0.38 | 0.35 | 62.0 |
| 4/27/2015 16:55:23 | 33.79 | 31.89 | 1,127 | 0.39 | 0.35 | 61.6 |
| 4/27/2015 16:55:24 | 34.12 | 32.22 | 1,127 | 0.39 | 0.35 | 61.6 |
| 4/27/2015 16:55:24 | 34.45 | 32.55 | 1,119 | 0.39 | 0.35 | 61.2 |
| 4/27/2015 16:55:24 | 34.78 | 32.88 | 1,119 | 0.39 | 0.35 | 61.2 |
| 4/27/2015 16:55:24 | 35.11 | 33.21 | 1,116 | 0.41 | 0.35 | 61.0 |
| 4/27/2015 16:55:25 | 35.43 | 33.53 | 1,116 | 0.39 | 0.34 | 61.0 |
| 4/27/2015 16:55:25 | 35.76 | 33.86 | 1,116 | 0.39 | 0.34 | 61.0 |
| 4/27/2015 16:55:25 | 36.09 | 34.19 | 1,116 | 0.37 | 0.35 | 61.0 |
| 4/27/2015 16:55:26 | 36.42 | 34.52 | 1,110 | 0.29 | 0.33 | 60.7 |
| 4/27/2015 16:55:26 | 36.75 | 34.85 | 1,110 | 0.29 | 0.33 | 60.7 |
| 4/27/2015 16:55:26 | 37.07 | 35.17 | 1,107 | 0.35 | 0.32 | 60.5 |
| 4/27/2015 16:55:27 | 37.40 | 35.50 | 1,107 | 0.35 | 0.32 | 60.5 |
| 4/27/2015 16:55:27 | 37.73 | 35.83 | 1,119 | 0.32 | 0.32 | 61.2 |
| 4/27/2015 16:55:27 | 38.06 | 36.16 | 1,113 | 0.32 | 0.32 | 60.9 |
| 4/27/2015 16:55:28 | 38.39 | 36.49 | 1,113 | 0.32 | 0.32 | 60.9 |
| 4/27/2015 16:55:28 | 38.71 | 36.81 | 1,113 | 0.32 | 0.32 | 60.9 |
| 4/27/2015 16:55:29 | 39.04 | 37.14 | 1,113 | 0.32 | 0.32 | 60.9 |
| 4/27/2015 16:55:29 | 39.37 | 37.47 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 16:55:29 | 39.70 | 37.80 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 16:55:30 | 40.03 | 38.13 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 16:55:30 | 40.35 | 38.45 | 1,113 | 0.29 | 0.32 | 60.9 |
| 4/27/2015 16:55:30 | 40.68 | 38.78 | 1,113 | 0.29 | 0.32 | 60.9 |
| 4/27/2015 16:55:30 | 41.01 | 39.11 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 16:55:31 | 41.34 | 39.44 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 16:55:31 | 41.67 | 39.77 | 1,115 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 16:55:31 | 41.99 | 40.09 | 1,127 | 0.29 | 0.31 | 61.6 |
| 4/27/2015 16:55:32 | 42.32 | 40.42 | 1,127 | 0.28 | 0.31 | 61.6 |
| 4/27/2015 16:55:32 | 42.65 | 40.75 | 1,127 | 0.28 | 0.31 | 61.6 |
| 4/27/2015 16:55:32 | 42.98 | 41.08 | 1,133 | 0.29 | 0.32 | 62.0 |
| 4/27/2015 16:55:33 | 43.31 | 41.41 | 1,133 | 0.29 | 0.32 | 62.0 |
| 4/27/2015 16:55:33 | 43.64 | 41.74 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 16:55:33 | 43.96 | 42.06 | 1,146 | 0.28 | 0.32 | 62.6 |
| 4/27/2015 16:55:34 | 44.29 | 42.39 | 1,146 | 0.28 | 0.32 | 62.6 |
| 4/27/2015 16:55:34 | 44.62 | 42.72 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 16:55:34 | 44.95 | 43.05 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 16:55:34 | 45.28 | 43.38 | 1,143 | 0.30 | 0.32 | 62.5 |
| 4/27/2015 16:55:35 | 45.60 | 43.70 | 1,130 | 0.26 | 0.31 | 61.8 |
| 4/27/2015 16:55:35 | 45.93 | 44.03 | 1,130 | 0.26 | 0.31 | 61.8 |
| 4/27/2015 16:55:35 | 46.26 | 44.36 | 1,130 | 0.24 | 0.32 | 61.8 |
| 4/27/2015 16:55:36 | 46.59 | 44.69 | 1,130 | 0.24 | 0.32 | 61.8 |
| 4/27/2015 16:55:36 | 46.92 | 45.02 | 1,122 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 16:55:36 | 47.24 | 45.34 | 1,122 | 0.28 | 0.31 | 61.3 |
| 4/27/2015 16:55:37 | 47.57 | 45.67 | 1,122 | 0.28 | 0.31 | 61.3 |
| 4/27/2015 16:55:37 | 47.90 | 46.00 | 1,109 | 0.28 | 0.31 | 60.6 |
| 4/27/2015 16:55:37 | 48.23 | 46.33 | 1,109 | 0.28 | 0.31 | 60.6 |
| 4/27/2015 16:55:37 | 48.56 | 46.66 | 1,125 | 0.26 | 0.36 | 61.5 |
| 4/27/2015 16:55:45 | 48.88 | 46.98 | 109 | 3.87 | 0.39 | 6.0 |
| 4/27/2015 16:55:47 | 49.21 | 47.31 | 202 | 3.25 | 0.38 | 11.1 |
| 4/27/2015 16:55:48 | 49.54 | 47.64 | 218 | 3.74 | 0.38 | 11.9 |
| 4/27/2015 16:55:49 | 49.87 | 47.97 | 282 | 3.32 | 0.37 | 15.4 |
| 4/27/2015 16:55:55 | 50.20 | 48.30 | 0 | 3.67 | 0.37 | 0.0 |
| 4/27/2015 16:55:56 | 50.53 | 48.63 | 173 | 3.80 | 0.40 | 9.5 |
| 4/27/2015 16:55:57 | 50.85 | 48.95 | 260 | 2.88 | 0.38 | 14.2 |
| 4/27/2015 16:56:08 | 51.18 | 49.28 | 66 | 2.96 | 0.40 | 3.6 |
| 4/27/2015 16:56:12 | 51.51 | 49.61 | 100 | 4.08 | 0.41 | 5.5 |
| 4/27/2015 16:56:17 | 51.84 | 49.94 | 64 | 3.75 | 0.40 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:56:22 | 52.17 | 50.27 | 93 | 4.51 | 0.41 | 5.1 |
| 4/27/2015 | 16:56:28 | 52.49 | 50.59 | 50 | 3.77 | 0.41 | 2.7 |
| 4/27/2015 | 16:56:34 | 52.82 | 50.92 | 52 | 3.26 | 0.41 | 2.8 |
| 4/27/2015 | 16:56:39 | 53.15 | 51.25 | 73 | 4.59 | 0.41 | 4.0 |
| 4/27/2015 | 16:56:42 | 53.32 | 51.42 | 66 | 3.56 | 0.41 | 3.6 |

## I47 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:53:40

**End Date:**
4/27/2015 16:57:50

**Operator Note:**
'1.9 1.7 b Rock'

**Northing:**
364,659.18

**Easting:**
248,272.60

**Tide (feet):**
1.90



## Hole: I48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 16:54:53 | 32.15 | 30.25 | 1,144 | 1.59 | 0.28 | 62.6 |
| 4/27/2015 16:54:53 | 32.48 | 30.58 | 1,144 | 1.59 | 0.28 | 62.6 |
| 4/27/2015 16:54:53 | 32.81 | 30.91 | 1,133 | 1.60 | 0.28 | 62.0 |
| 4/27/2015 16:54:54 | 33.14 | 31.24 | 1,133 | 1.60 | 0.28 | 62.0 |
| 4/27/2015 16:54:54 | 33.46 | 31.56 | 1,134 | 1.60 | 0.28 | 62.0 |
| 4/27/2015 16:54:54 | 33.79 | 31.89 | 1,124 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:54:55 | 34.12 | 32.22 | 1,124 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:54:55 | 34.45 | 32.55 | 1,124 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:54:55 | 34.78 | 32.88 | 1,124 | 1.59 | 0.28 | 61.5 |
| 4/27/2015 16:54:55 | 35.11 | 33.21 | 1,124 | 1.61 | 0.29 | 61.5 |
| 4/27/2015 16:54:56 | 35.43 | 33.53 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:54:56 | 35.76 | 33.86 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:54:56 | 36.09 | 34.19 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:54:57 | 36.42 | 34.52 | 1,119 | 1.59 | 0.29 | 61.2 |
| 4/27/2015 16:54:57 | 36.75 | 34.85 | 1,122 | 1.58 | 0.29 | 61.3 |
| 4/27/2015 16:54:57 | 37.07 | 35.17 | 1,124 | 1.58 | 0.29 | 61.5 |
| 4/27/2015 16:54:58 | 37.40 | 35.50 | 1,124 | 1.58 | 0.29 | 61.5 |
| 4/27/2015 16:54:58 | 37.73 | 35.83 | 1,122 | 1.60 | 0.28 | 61.3 |
| 4/27/2015 16:54:58 | 38.06 | 36.16 | 1,122 | 1.60 | 0.28 | 61.3 |
| 4/27/2015 16:54:58 | 38.39 | 36.49 | 1,122 | 1.61 | 0.28 | 61.3 |
| 4/27/2015 16:54:59 | 38.71 | 36.81 | 1,112 | 1.57 | 0.28 | 60.8 |
| 4/27/2015 16:54:59 | 39.04 | 37.14 | 1,112 | 1.57 | 0.28 | 60.8 |
| 4/27/2015 16:54:59 | 39.37 | 37.47 | 1,122 | 1.59 | 0.28 | 61.3 |
| 4/27/2015 16:55:00 | 39.70 | 37.80 | 1,116 | 1.60 | 0.28 | 61.0 |
| 4/27/2015 16:55:00 | 40.03 | 38.13 | 1,116 | 1.60 | 0.28 | 61.0 |
| 4/27/2015 16:55:00 | 40.35 | 38.45 | 1,116 | 1.59 | 0.28 | 61.0 |
| 4/27/2015 16:55:01 | 40.68 | 38.78 | 1,116 | 1.59 | 0.28 | 61.0 |
| 4/27/2015 16:55:01 | 41.01 | 39.11 | 1,116 | 1.57 | 0.28 | 61.0 |
| 4/27/2015 16:55:01 | 41.34 | 39.44 | 1,122 | 1.61 | 0.28 | 61.3 |
| 4/27/2015 16:55:02 | 41.67 | 39.77 | 1,122 | 1.61 | 0.28 | 61.3 |
| 4/27/2015 16:55:02 | 41.99 | 40.09 | 1,116 | 1.59 | 0.28 | 61.0 |
| 4/27/2015 16:55:03 | 42.32 | 40.42 | 1,116 | 1.59 | 0.28 | 61.0 |
| 4/27/2015 16:55:03 | 42.65 | 40.75 | 1,116 | 1.61 | 0.28 | 61.0 |
| 4/27/2015 16:55:03 | 42.98 | 41.08 | 1,094 | 1.60 | 0.28 | 59.8 |
| 4/27/2015 16:55:04 | 43.31 | 41.41 | 1,094 | 1.60 | 0.28 | 59.8 |
| 4/27/2015 16:55:04 | 43.64 | 41.74 | 1,094 | 1.60 | 0.28 | 59.8 |
| 4/27/2015 16:55:04 | 43.96 | 42.06 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:55:05 | 44.29 | 42.39 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:55:05 | 44.62 | 42.72 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:55:05 | 44.95 | 43.05 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 16:55:05 | 45.28 | 43.38 | 1,096 | 1.58 | 0.28 | 59.9 |
| 4/27/2015 16:55:06 | 45.60 | 43.70 | 1,096 | 1.61 | 0.28 | 59.9 |
| 4/27/2015 16:55:06 | 45.93 | 44.03 | 1,096 | 1.61 | 0.28 | 59.9 |
| 4/27/2015 16:55:06 | 46.26 | 44.36 | 1,103 | 1.60 | 0.28 | 60.3 |
| 4/27/2015 16:55:07 | 46.59 | 44.69 | 1,103 | 1.60 | 0.28 | 60.3 |
| 4/27/2015 16:55:07 | 46.92 | 45.02 | 1,103 | 1.61 | 0.28 | 60.3 |
| 4/27/2015 16:55:07 | 47.24 | 45.34 | 1,118 | 1.59 | 0.28 | 61.1 |
| 4/27/2015 16:55:08 | 47.57 | 45.67 | 1,118 | 1.59 | 0.28 | 61.1 |
| 4/27/2015 16:55:08 | 47.90 | 46.00 | 1,096 | 1.72 | 0.29 | 59.9 |
| 4/27/2015 16:55:29 | 48.23 | 46.33 | 35 | 1.69 | 1.09 | 1.9 |
| 4/27/2015 16:55:30 | 48.56 | 46.66 | 172 | 1.70 | 1.05 | 9.4 |
| 4/27/2015 16:55:47 | 48.88 | 46.98 | 0 | 1.69 | 1.41 | 0.0 |
| 4/27/2015 16:55:48 | 49.21 | 47.31 | 157 | 1.66 | 1.32 | 8.6 |
| 4/27/2015 16:55:48 | 49.54 | 47.64 | 157 | 1.66 | 1.24 | 8.6 |
| 4/27/2015 16:55:49 | 49.87 | 47.97 | 267 | 1.71 | 1.33 | 14.6 |
| 4/27/2015 16:55:49 | 50.20 | 48.30 | 375 | 1.69 | 1.08 | 20.5 |
| 4/27/2015 16:55:50 | 50.53 | 48.63 | 375 | 1.70 | 0.99 | 20.5 |
| 4/27/2015 16:55:50 | 50.85 | 48.95 | 517 | 1.69 | 1.06 | 28.2 |
| 4/27/2015 16:56:17 | 51.18 | 49.28 | 56 | 1.66 | 1.28 | 3.1 |
| 4/27/2015 16:56:18 | 51.51 | 49.61 | 233 | 1.68 | 1.13 | 12.7 |
| 4/27/2015 16:56:19 | 51.84 | 49.94 | 325 | 1.66 | 1.14 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 16:56:20 | 52.17 | 50.27 | 412 | 1.65 | 1.23 | 22.5 |
| 4/27/2015 | 16:56:51 | 52.49 | 50.59 | 116 | 1.67 | 1.22 | 6.4 |
| 4/27/2015 | 16:56:53 | 52.82 | 50.92 | 218 | 1.65 | 1.20 | 11.9 |
| 4/27/2015 | 16:56:55 | 53.15 | 51.25 | 177 | 1.64 | 1.26 | 9.7 |
| 4/27/2015 | 16:57:19 | 53.48 | 51.58 | 0 | 1.68 | 1.01 | 0.0 |
| 4/27/2015 | 16:57:20 | 53.81 | 51.91 | 142 | 1.68 | 1.24 | 7.7 |
| 4/27/2015 | 16:57:22 | 54.13 | 52.23 | 260 | 1.66 | 1.28 | 14.2 |
| 4/27/2015 | 16:57:23 | 54.46 | 52.56 | 220 | 1.65 | 1.25 | 12.0 |
| 4/27/2015 | 16:57:25 | 54.79 | 52.89 | 203 | 1.64 | 1.34 | 11.1 |
| 4/27/2015 | 16:57:26 | 55.12 | 53.22 | 244 | 1.64 | 1.42 | 13.3 |
| 4/27/2015 | 16:57:45 | 55.45 | 53.55 | 101 | 1.62 | 1.17 | 5.5 |
| 4/27/2015 | 16:57:48 | 55.77 | 53.87 | 131 | 1.67 | 1.16 | 7.1 |
| 4/27/2015 | 16:57:52 | 56.10 | 54.20 | 87 | 1.68 | 1.42 | 4.7 |
| 4/27/2015 | 16:58:02 | 56.43 | 54.53 | 43 | 1.68 | 1.23 | 2.4 |
| 4/27/2015 | 16:58:10 | 56.70 | 54.80 | 41 | 1.68 | 1.19 | 2.2 |

## I48 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 16:53:54

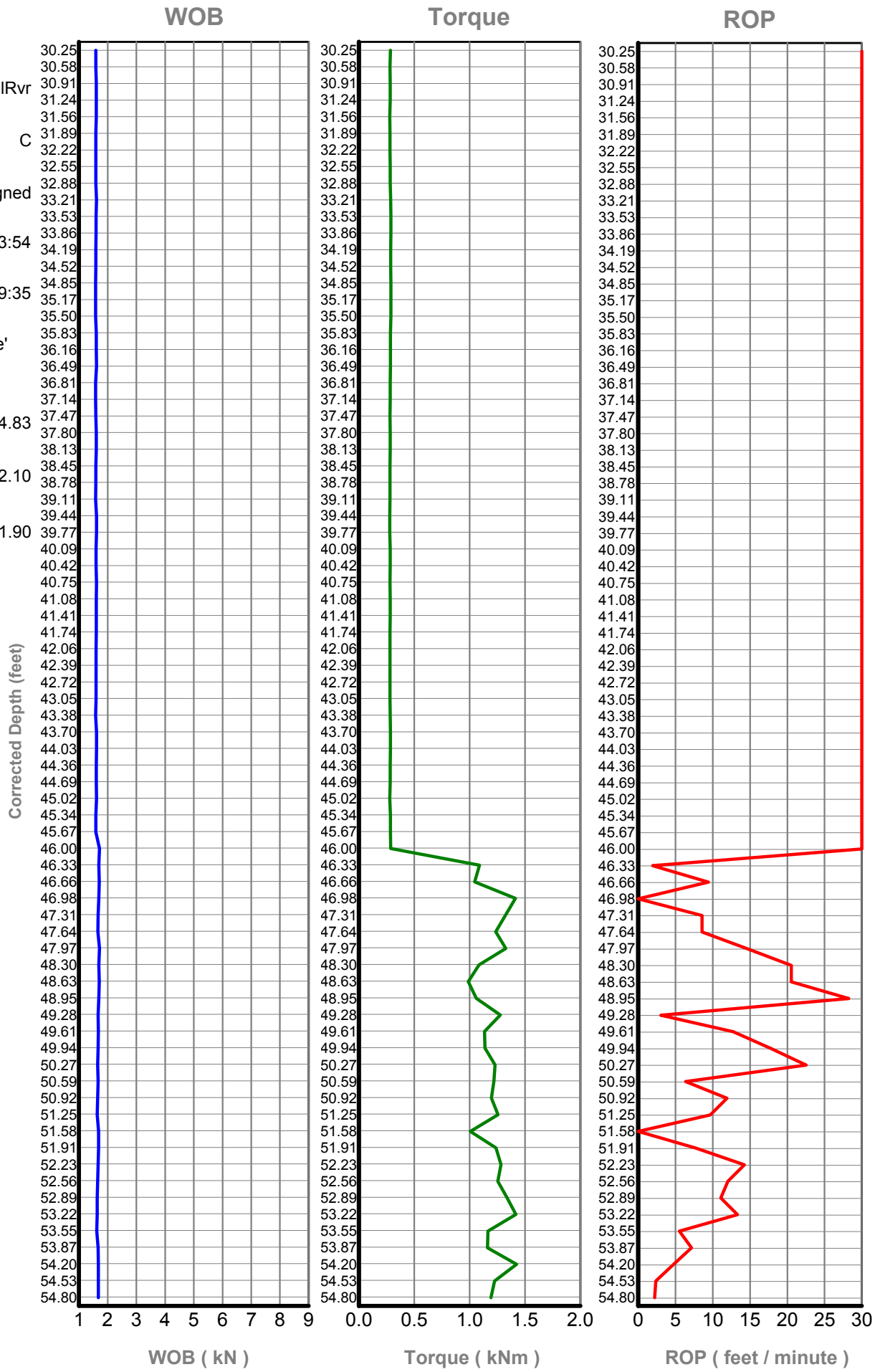
**End Date:**
4/27/2015 16:59:35

**Operator Note:**
'1.9 1.7 c Auto Complete'

**Northing:**
364,704.83

**Easting:**
248,332.10

**Tide (feet):**
1.90



## Hole: I49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:31:33 | 33.46 | 30.16 | 1,125 | 1.54 | 0.22 | 61.5 |
| 4/29/2015 1:31:33 | 33.79 | 30.49 | 1,118 | 1.55 | 0.22 | 61.1 |
| 4/29/2015 1:31:33 | 34.12 | 30.82 | 1,118 | 1.54 | 0.22 | 61.1 |
| 4/29/2015 1:31:34 | 34.45 | 31.15 | 1,118 | 1.54 | 0.22 | 61.1 |
| 4/29/2015 1:31:34 | 34.78 | 31.48 | 1,143 | 1.57 | 0.22 | 62.5 |
| 4/29/2015 1:31:34 | 35.11 | 31.81 | 1,143 | 1.57 | 0.22 | 62.5 |
| 4/29/2015 1:31:34 | 35.43 | 32.13 | 1,127 | 1.53 | 0.22 | 61.7 |
| 4/29/2015 1:31:35 | 35.76 | 32.46 | 1,118 | 1.53 | 0.22 | 61.1 |
| 4/29/2015 1:31:35 | 36.09 | 32.79 | 1,118 | 1.53 | 0.22 | 61.1 |
| 4/29/2015 1:31:35 | 36.42 | 33.12 | 1,128 | 1.53 | 0.21 | 61.7 |
| 4/29/2015 1:31:36 | 36.75 | 33.45 | 1,128 | 1.55 | 0.22 | 61.7 |
| 4/29/2015 1:31:36 | 37.07 | 33.77 | 1,128 | 1.55 | 0.22 | 61.7 |
| 4/29/2015 1:31:36 | 37.40 | 34.10 | 1,128 | 1.54 | 0.22 | 61.7 |
| 4/29/2015 1:31:37 | 37.73 | 34.43 | 1,128 | 1.54 | 0.22 | 61.7 |
| 4/29/2015 1:31:37 | 38.06 | 34.76 | 1,128 | 1.54 | 0.22 | 61.7 |
| 4/29/2015 1:31:37 | 38.39 | 35.09 | 1,133 | 1.54 | 0.22 | 62.0 |
| 4/29/2015 1:31:38 | 38.71 | 35.41 | 1,133 | 1.54 | 0.22 | 62.0 |
| 4/29/2015 1:31:38 | 39.04 | 35.74 | 1,127 | 1.53 | 0.22 | 61.6 |
| 4/29/2015 1:31:38 | 39.37 | 36.07 | 1,127 | 1.53 | 0.22 | 61.6 |
| 4/29/2015 1:31:38 | 39.70 | 36.40 | 1,127 | 1.51 | 0.21 | 61.6 |
| 4/29/2015 1:31:39 | 40.03 | 36.73 | 1,120 | 1.54 | 0.22 | 61.3 |
| 4/29/2015 1:31:40 | 40.35 | 37.05 | 1,120 | 1.54 | 0.22 | 61.3 |
| 4/29/2015 1:31:40 | 40.68 | 37.38 | 1,127 | 1.53 | 0.21 | 61.6 |
| 4/29/2015 1:31:40 | 41.01 | 37.71 | 1,127 | 1.53 | 0.21 | 61.6 |
| 4/29/2015 1:31:40 | 41.34 | 38.04 | 1,122 | 1.55 | 0.21 | 61.3 |
| 4/29/2015 1:31:41 | 41.67 | 38.37 | 1,091 | 1.55 | 0.21 | 59.7 |
| 4/29/2015 1:31:41 | 41.99 | 38.69 | 1,091 | 1.55 | 0.21 | 59.7 |
| 4/29/2015 1:31:41 | 42.32 | 39.02 | 1,091 | 1.53 | 0.21 | 59.7 |
| 4/29/2015 1:31:42 | 42.65 | 39.35 | 1,102 | 1.53 | 0.21 | 60.3 |
| 4/29/2015 1:31:42 | 42.98 | 39.68 | 1,102 | 1.53 | 0.21 | 60.3 |
| 4/29/2015 1:31:42 | 43.31 | 40.01 | 1,102 | 1.54 | 0.21 | 60.3 |
| 4/29/2015 1:31:43 | 43.64 | 40.34 | 1,102 | 1.54 | 0.21 | 60.3 |
| 4/29/2015 1:31:43 | 43.96 | 40.66 | 1,114 | 1.53 | 0.21 | 60.9 |
| 4/29/2015 1:31:43 | 44.29 | 40.99 | 1,105 | 1.52 | 0.22 | 60.4 |
| 4/29/2015 1:31:44 | 44.62 | 41.32 | 1,105 | 1.52 | 0.22 | 60.4 |
| 4/29/2015 1:31:44 | 44.95 | 41.65 | 1,110 | 1.54 | 0.22 | 60.7 |
| 4/29/2015 1:31:44 | 45.28 | 41.98 | 1,110 | 1.54 | 0.22 | 60.7 |
| 4/29/2015 1:31:44 | 45.60 | 42.30 | 1,122 | 1.55 | 0.21 | 61.3 |
| 4/29/2015 1:31:45 | 45.93 | 42.63 | 1,108 | 1.55 | 0.21 | 60.6 |
| 4/29/2015 1:31:45 | 46.26 | 42.96 | 1,108 | 1.55 | 0.21 | 60.6 |
| 4/29/2015 1:31:45 | 46.59 | 43.29 | 1,100 | 1.55 | 0.21 | 60.1 |
| 4/29/2015 1:31:46 | 46.92 | 43.62 | 1,100 | 1.55 | 0.21 | 60.1 |
| 4/29/2015 1:31:46 | 47.24 | 43.94 | 1,096 | 1.53 | 0.21 | 59.9 |
| 4/29/2015 1:31:46 | 47.57 | 44.27 | 1,096 | 1.54 | 0.21 | 59.9 |
| 4/29/2015 1:31:47 | 47.90 | 44.60 | 1,096 | 1.54 | 0.21 | 59.9 |
| 4/29/2015 1:31:47 | 48.23 | 44.93 | 1,108 | 1.54 | 0.21 | 60.6 |
| 4/29/2015 1:31:47 | 48.56 | 45.26 | 1,120 | 1.55 | 0.21 | 61.2 |
| 4/29/2015 1:31:48 | 48.88 | 45.58 | 1,120 | 1.55 | 0.21 | 61.2 |
| 4/29/2015 1:31:48 | 49.21 | 45.91 | 1,123 | 1.28 | 0.19 | 61.4 |
| 4/29/2015 1:32:13 | 49.54 | 46.24 | 13 | 1.86 | 1.08 | 0.7 |
| 4/29/2015 1:32:16 | 49.87 | 46.57 | 145 | 1.55 | 1.07 | 7.9 |
| 4/29/2015 1:32:16 | 50.20 | 46.90 | 253 | 1.15 | 1.16 | 13.8 |
| 4/29/2015 1:33:03 | 50.53 | 47.23 | 26 | 0.99 | 1.07 | 1.4 |
| 4/29/2015 1:33:04 | 50.85 | 47.55 | 151 | 0.95 | 1.00 | 8.3 |
| 4/29/2015 1:33:05 | 51.18 | 47.88 | 283 | 1.00 | 1.18 | 15.5 |
| 4/29/2015 1:33:06 | 51.51 | 48.21 | 287 | 1.04 | 1.01 | 15.7 |
| 4/29/2015 1:33:07 | 51.84 | 48.54 | 333 | 1.09 | 1.35 | 18.2 |
| 4/29/2015 1:33:14 | 52.17 | 48.87 | 67 | 1.18 | 1.38 | 3.6 |
| 4/29/2015 1:33:16 | 52.49 | 49.19 | 117 | 1.04 | 0.89 | 6.4 |
| 4/29/2015 1:33:19 | 52.82 | 49.52 | 180 | 1.02 | 1.03 | 9.8 |
| 4/29/2015 1:33:27 | 53.15 | 49.85 | 43 | 1.06 | 0.88 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:33:37 | 53.48 | 50.18 | 37 | 1.04 | 0.93 | 2.0 |
| 4/29/2015 | 1:33:46 | 53.81 | 50.51 | 37 | 0.96 | 0.90 | 2.0 |
| 4/29/2015 | 1:33:52 | 54.02 | 50.72 | 35 | 1.19 | 0.88 | 1.9 |

## I49 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 1:30:04

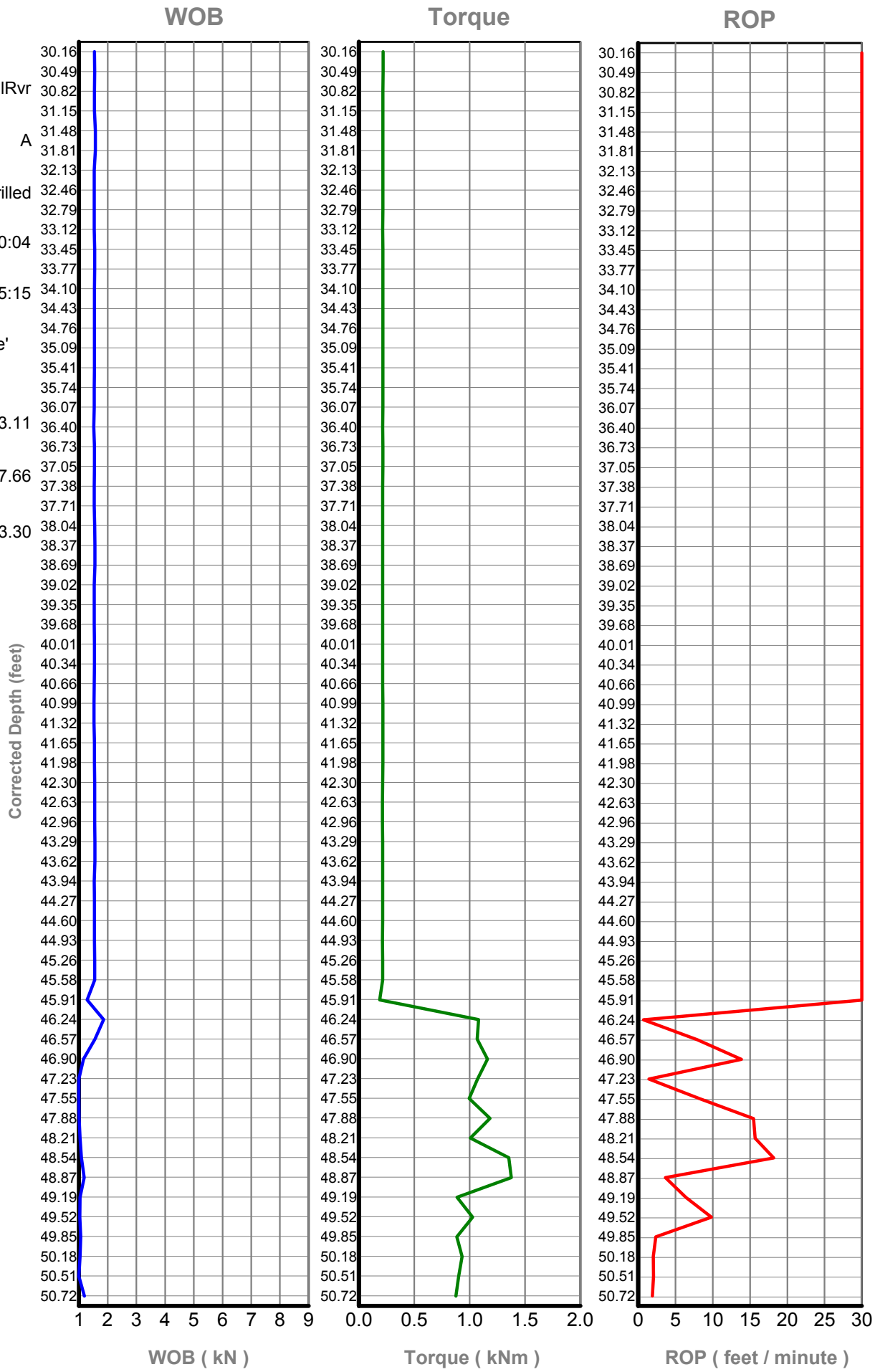
**End Date:**
4/29/2015 1:35:15

**Operator Note:**
'3.3 3.5 b Auto Complete'

**Northing:**
364,263.11

**Easting:**
247,897.66

**Tide (feet):**
3.30



## Hole: I5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:38:58 | 34.45 | 30.25 | 998 | 0.35 | 0.38 | 54.6 |
| 4/29/2015 0:38:58 | 34.78 | 30.58 | 992 | 0.34 | 0.39 | 54.3 |
| 4/29/2015 0:38:59 | 35.11 | 30.91 | 992 | 0.34 | 0.39 | 54.3 |
| 4/29/2015 0:38:59 | 35.43 | 31.23 | 995 | 0.35 | 0.38 | 54.4 |
| 4/29/2015 0:38:59 | 35.76 | 31.56 | 995 | 0.34 | 0.38 | 54.4 |
| 4/29/2015 0:39:00 | 36.09 | 31.89 | 995 | 0.34 | 0.38 | 54.4 |
| 4/29/2015 0:39:00 | 36.42 | 32.22 | 1,022 | 0.34 | 0.38 | 55.9 |
| 4/29/2015 0:39:00 | 36.75 | 32.55 | 1,015 | 0.34 | 0.38 | 55.5 |
| 4/29/2015 0:39:01 | 37.07 | 32.87 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:01 | 37.40 | 33.20 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:01 | 37.73 | 33.53 | 1,012 | 0.35 | 0.38 | 55.3 |
| 4/29/2015 0:39:02 | 38.06 | 33.86 | 1,006 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:02 | 38.39 | 34.19 | 1,006 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:02 | 38.71 | 34.51 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:03 | 39.04 | 34.84 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:03 | 39.37 | 35.17 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:03 | 39.70 | 35.50 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:04 | 40.03 | 35.83 | 1,009 | 0.35 | 0.38 | 55.2 |
| 4/29/2015 0:39:04 | 40.35 | 36.15 | 1,009 | 0.35 | 0.38 | 55.2 |
| 4/29/2015 0:39:04 | 40.68 | 36.48 | 1,021 | 0.34 | 0.38 | 55.8 |
| 4/29/2015 0:39:05 | 41.01 | 36.81 | 1,012 | 0.35 | 0.38 | 55.3 |
| 4/29/2015 0:39:05 | 41.34 | 37.14 | 1,012 | 0.35 | 0.38 | 55.3 |
| 4/29/2015 0:39:05 | 41.67 | 37.47 | 1,012 | 0.35 | 0.38 | 55.3 |
| 4/29/2015 0:39:06 | 41.99 | 37.79 | 1,012 | 0.34 | 0.38 | 55.3 |
| 4/29/2015 0:39:06 | 42.32 | 38.12 | 1,012 | 0.34 | 0.38 | 55.3 |
| 4/29/2015 0:39:06 | 42.65 | 38.45 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:07 | 42.98 | 38.78 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:08 | 43.31 | 39.11 | 1,009 | 0.34 | 0.38 | 55.2 |
| 4/29/2015 0:39:08 | 43.64 | 39.44 | 1,009 | 0.35 | 0.38 | 55.2 |
| 4/29/2015 0:39:08 | 43.96 | 39.76 | 1,006 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:09 | 44.29 | 40.09 | 1,006 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:09 | 44.62 | 40.42 | 1,008 | 0.35 | 0.38 | 55.1 |
| 4/29/2015 0:39:09 | 44.95 | 40.75 | 1,005 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:10 | 45.28 | 41.08 | 1,005 | 0.35 | 0.38 | 55.0 |
| 4/29/2015 0:39:10 | 45.60 | 41.40 | 1,012 | 0.35 | 0.38 | 55.3 |
| 4/29/2015 0:39:10 | 45.93 | 41.73 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:11 | 46.26 | 42.06 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:11 | 46.59 | 42.39 | 1,004 | 0.34 | 0.38 | 54.9 |
| 4/29/2015 0:39:11 | 46.92 | 42.72 | 1,004 | 0.34 | 0.38 | 54.9 |
| 4/29/2015 0:39:12 | 47.24 | 43.04 | 1,004 | 0.34 | 0.38 | 54.9 |
| 4/29/2015 0:39:12 | 47.57 | 43.37 | 1,014 | 0.34 | 0.38 | 55.4 |
| 4/29/2015 0:39:12 | 47.90 | 43.70 | 995 | 0.35 | 0.38 | 54.4 |
| 4/29/2015 0:39:13 | 48.23 | 44.03 | 995 | 0.35 | 0.38 | 54.4 |
| 4/29/2015 0:39:13 | 48.56 | 44.36 | 995 | 0.34 | 0.38 | 54.4 |
| 4/29/2015 0:39:13 | 48.88 | 44.68 | 998 | 0.35 | 0.39 | 54.5 |
| 4/29/2015 0:39:14 | 49.21 | 45.01 | 998 | 0.34 | 0.38 | 54.5 |
| 4/29/2015 0:39:14 | 49.54 | 45.34 | 998 | 0.34 | 0.38 | 54.5 |
| 4/29/2015 0:39:14 | 49.87 | 45.67 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/29/2015 0:39:15 | 50.20 | 46.00 | 1,005 | 0.33 | 0.40 | 54.9 |
| 4/29/2015 0:39:15 | 50.53 | 46.33 | 1,005 | 0.33 | 0.40 | 54.9 |
| 4/29/2015 0:39:20 | 50.85 | 46.65 | 63 | 3.59 | 0.45 | 3.4 |
| 4/29/2015 0:39:22 | 51.18 | 46.98 | 133 | 3.03 | 0.43 | 7.3 |
| 4/29/2015 0:39:24 | 51.51 | 47.31 | 190 | 3.42 | 0.46 | 10.4 |
| 4/29/2015 0:39:32 | 51.84 | 47.64 | 62 | 4.02 | 0.46 | 3.4 |
| 4/29/2015 0:39:36 | 52.17 | 47.97 | 88 | 4.22 | 0.46 | 4.8 |
| 4/29/2015 0:39:40 | 52.49 | 48.29 | 79 | 4.07 | 0.46 | 4.3 |
| 4/29/2015 0:39:45 | 52.82 | 48.62 | 69 | 3.79 | 0.46 | 3.8 |
| 4/29/2015 0:39:50 | 53.15 | 48.95 | 80 | 3.71 | 0.47 | 4.4 |
| 4/29/2015 0:39:53 | 53.48 | 49.28 | 98 | 3.56 | 0.46 | 5.4 |
| 4/29/2015 0:39:56 | 53.81 | 49.61 | 117 | 4.13 | 0.46 | 6.4 |
| 4/29/2015 0:40:00 | 54.13 | 49.93 | 113 | 3.58 | 0.46 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:40:04 | 54.46 | 50.26 | 76 | 3.72 | 0.46 | 4.2 |
| 4/29/2015 | 0:40:09 | 54.79 | 50.59 | 77 | 3.88 | 0.47 | 4.2 |
| 4/29/2015 | 0:40:13 | 55.12 | 50.92 | 81 | 3.14 | 0.47 | 4.4 |
| 4/29/2015 | 0:40:17 | 55.45 | 51.25 | 88 | 4.08 | 0.47 | 4.8 |
| 4/29/2015 | 0:40:21 | 55.77 | 51.57 | 98 | 3.92 | 0.46 | 5.3 |
| 4/29/2015 | 0:40:25 | 56.10 | 51.90 | 89 | 4.66 | 0.47 | 4.9 |
| 4/29/2015 | 0:40:31 | 56.43 | 52.23 | 61 | 3.45 | 0.46 | 3.4 |
| 4/29/2015 | 0:40:35 | 56.76 | 52.56 | 73 | 3.42 | 0.47 | 4.0 |
| 4/29/2015 | 0:40:43 | 57.09 | 52.89 | 47 | 3.67 | 0.47 | 2.6 |
| 4/29/2015 | 0:40:50 | 57.41 | 53.21 | 54 | 3.75 | 0.47 | 3.0 |
| 4/29/2015 | 0:40:51 | 57.49 | 53.29 | 54 | 3.31 | 0.47 | 2.9 |

## I5 - Summary

**Pattern Number:**
AreaI_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:37:21

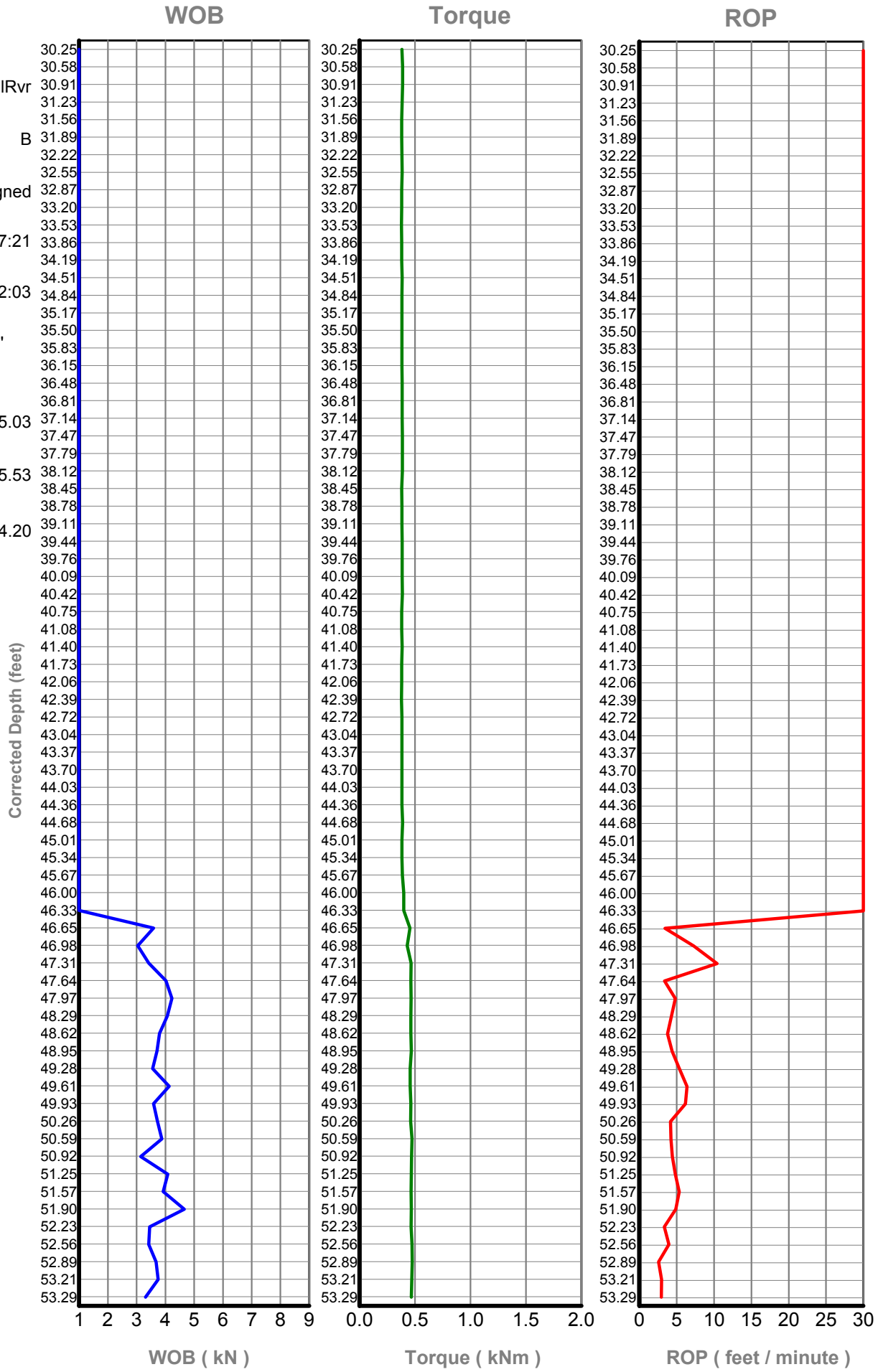
**End Date:**
4/29/2015 0:42:03

**Operator Note:**
'4.2 4.4b Auto Complete'

**Northing:**
364,545.03

**Easting:**
247,775.53

**Tide (feet):**
4.20



## Hole: I50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:25:51 | 33.46 | 30.06 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:25:51 | 33.79 | 30.39 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:25:51 | 34.12 | 30.72 | 1,157 | 0.29 | 0.36 | 63.2 |
| 4/29/2015 1:25:52 | 34.45 | 31.05 | 1,157 | 0.29 | 0.37 | 63.2 |
| 4/29/2015 1:25:52 | 34.78 | 31.38 | 1,157 | 0.29 | 0.37 | 63.2 |
| 4/29/2015 1:25:52 | 35.11 | 31.71 | 1,151 | 0.29 | 0.37 | 63.0 |
| 4/29/2015 1:25:53 | 35.43 | 32.03 | 1,151 | 0.29 | 0.37 | 63.0 |
| 4/29/2015 1:25:53 | 35.76 | 32.36 | 1,154 | 0.29 | 0.37 | 63.1 |
| 4/29/2015 1:25:53 | 36.09 | 32.69 | 1,173 | 0.29 | 0.37 | 64.1 |
| 4/29/2015 1:25:54 | 36.42 | 33.02 | 1,173 | 0.29 | 0.37 | 64.1 |
| 4/29/2015 1:25:54 | 36.75 | 33.35 | 1,157 | 0.29 | 0.37 | 63.3 |
| 4/29/2015 1:25:54 | 37.07 | 33.67 | 1,157 | 0.29 | 0.37 | 63.3 |
| 4/29/2015 1:25:54 | 37.40 | 34.00 | 1,176 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:25:55 | 37.73 | 34.33 | 1,176 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:25:55 | 38.06 | 34.66 | 1,175 | 0.29 | 0.38 | 64.3 |
| 4/29/2015 1:25:55 | 38.39 | 34.99 | 1,165 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 1:25:56 | 38.71 | 35.31 | 1,165 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 1:25:56 | 39.04 | 35.64 | 1,168 | 0.29 | 0.36 | 63.9 |
| 4/29/2015 1:25:56 | 39.37 | 35.97 | 1,168 | 0.29 | 0.36 | 63.9 |
| 4/29/2015 1:25:56 | 39.70 | 36.30 | 1,168 | 0.22 | 0.37 | 63.9 |
| 4/29/2015 1:25:57 | 40.03 | 36.63 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/29/2015 1:25:57 | 40.35 | 36.95 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/29/2015 1:25:57 | 40.68 | 37.28 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/29/2015 1:25:58 | 41.01 | 37.61 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/29/2015 1:25:58 | 41.34 | 37.94 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/29/2015 1:25:59 | 41.67 | 38.27 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:25:59 | 41.99 | 38.59 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:25:59 | 42.32 | 38.92 | 1,177 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:26:00 | 42.65 | 39.25 | 1,177 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:26:00 | 42.98 | 39.58 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/29/2015 1:26:00 | 43.31 | 39.91 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/29/2015 1:26:00 | 43.64 | 40.24 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:26:01 | 43.96 | 40.56 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:26:01 | 44.29 | 40.89 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/29/2015 1:26:01 | 44.62 | 41.22 | 1,177 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:26:02 | 44.95 | 41.55 | 1,177 | 0.29 | 0.37 | 64.3 |
| 4/29/2015 1:26:02 | 45.28 | 41.88 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/29/2015 1:26:02 | 45.60 | 42.20 | 1,164 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 1:26:03 | 45.93 | 42.53 | 1,164 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 1:26:03 | 46.26 | 42.86 | 1,164 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 1:26:03 | 46.59 | 43.19 | 1,164 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 1:26:03 | 46.92 | 43.52 | 1,180 | 0.29 | 0.37 | 64.5 |
| 4/29/2015 1:26:04 | 47.24 | 43.84 | 1,180 | 0.29 | 0.37 | 64.5 |
| 4/29/2015 1:26:04 | 47.57 | 44.17 | 1,177 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:26:04 | 47.90 | 44.50 | 1,177 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:26:05 | 48.23 | 44.83 | 1,177 | 0.29 | 0.37 | 64.4 |
| 4/29/2015 1:26:08 | 48.56 | 45.16 | 55 | 7.02 | 0.48 | 3.0 |
| 4/29/2015 1:26:14 | 48.88 | 45.48 | 63 | 5.32 | 0.45 | 3.4 |
| 4/29/2015 1:26:16 | 49.21 | 45.81 | 125 | 3.78 | 0.46 | 6.8 |
| 4/29/2015 1:26:22 | 49.54 | 46.14 | 15 | 3.22 | 0.44 | 0.8 |
| 4/29/2015 1:26:30 | 49.87 | 46.47 | 48 | 3.26 | 0.45 | 2.6 |
| 4/29/2015 1:26:34 | 50.20 | 46.80 | 93 | 3.14 | 0.45 | 5.1 |
| 4/29/2015 1:26:37 | 50.53 | 47.13 | 110 | 4.37 | 0.46 | 6.0 |
| 4/29/2015 1:26:41 | 50.85 | 47.45 | 109 | 3.42 | 0.46 | 6.0 |
| 4/29/2015 1:26:44 | 51.18 | 47.78 | 115 | 3.77 | 0.45 | 6.3 |
| 4/29/2015 1:26:47 | 51.51 | 48.11 | 87 | 3.61 | 0.46 | 4.7 |
| 4/29/2015 1:26:50 | 51.84 | 48.44 | 130 | 3.76 | 0.45 | 7.1 |
| 4/29/2015 1:26:55 | 52.17 | 48.77 | 64 | 3.73 | 0.45 | 3.5 |
| 4/29/2015 1:26:58 | 52.49 | 49.09 | 113 | 3.03 | 0.45 | 6.2 |
| 4/29/2015 1:27:06 | 52.82 | 49.42 | 48 | 2.88 | 0.46 | 2.6 |
| 4/29/2015 1:27:12 | 53.15 | 49.75 | 55 | 3.20 | 0.46 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:27:19 | 53.48 | 50.08 | 52 | 3.24 | 0.47 | 2.8 |
| 4/29/2015 | 1:27:22 | 53.59 | 50.19 | 42 | 2.73 | 0.46 | 2.3 |

## I50 - Summary

**Pattern Number:**
AreaI_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:24:26

**End Date:**
4/29/2015 1:29:04

**Operator Note:**
'3.4 3.6b Auto Complete'

**Northing:**
364,310.08

**Easting:**
247,956.97

**Tide (feet):**
3.40



## Hole: I51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:25:02 | 33.46 | 30.06 | 1,100 | 1.64 | 0.14 | 60.1 |
| 4/29/2015 1:25:03 | 33.79 | 30.39 | 1,100 | 1.64 | 0.14 | 60.1 |
| 4/29/2015 1:25:03 | 34.12 | 30.72 | 1,087 | 1.58 | 0.14 | 59.4 |
| 4/29/2015 1:25:03 | 34.45 | 31.05 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:04 | 34.78 | 31.38 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:04 | 35.11 | 31.71 | 1,087 | 1.64 | 0.14 | 59.4 |
| 4/29/2015 1:25:04 | 35.43 | 32.03 | 1,087 | 1.64 | 0.14 | 59.4 |
| 4/29/2015 1:25:04 | 35.76 | 32.36 | 1,090 | 1.62 | 0.14 | 59.6 |
| 4/29/2015 1:25:05 | 36.09 | 32.69 | 1,081 | 1.62 | 0.14 | 59.1 |
| 4/29/2015 1:25:05 | 36.42 | 33.02 | 1,081 | 1.62 | 0.14 | 59.1 |
| 4/29/2015 1:25:05 | 36.75 | 33.35 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:25:06 | 37.07 | 33.67 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:25:06 | 37.40 | 34.00 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:25:06 | 37.73 | 34.33 | 1,087 | 1.63 | 0.14 | 59.4 |
| 4/29/2015 1:25:07 | 38.06 | 34.66 | 1,084 | 1.63 | 0.14 | 59.3 |
| 4/29/2015 1:25:07 | 38.39 | 34.99 | 1,084 | 1.63 | 0.14 | 59.3 |
| 4/29/2015 1:25:07 | 38.71 | 35.31 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:08 | 39.04 | 35.64 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:08 | 39.37 | 35.97 | 1,084 | 1.63 | 0.14 | 59.3 |
| 4/29/2015 1:25:09 | 39.70 | 36.30 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:09 | 40.03 | 36.63 | 1,087 | 1.62 | 0.14 | 59.4 |
| 4/29/2015 1:25:09 | 40.35 | 36.95 | 1,084 | 1.64 | 0.14 | 59.3 |
| 4/29/2015 1:25:10 | 40.68 | 37.28 | 1,084 | 1.64 | 0.14 | 59.3 |
| 4/29/2015 1:25:10 | 41.01 | 37.61 | 1,084 | 1.64 | 0.14 | 59.3 |
| 4/29/2015 1:25:10 | 41.34 | 37.94 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:11 | 41.67 | 38.27 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:11 | 41.99 | 38.59 | 1,087 | 1.64 | 0.14 | 59.4 |
| 4/29/2015 1:25:11 | 42.32 | 38.92 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:25:12 | 42.65 | 39.25 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:25:12 | 42.98 | 39.58 | 1,081 | 1.64 | 0.14 | 59.1 |
| 4/29/2015 1:25:12 | 43.31 | 39.91 | 1,078 | 1.65 | 0.14 | 59.0 |
| 4/29/2015 1:25:13 | 43.64 | 40.24 | 1,078 | 1.65 | 0.14 | 59.0 |
| 4/29/2015 1:25:13 | 43.96 | 40.56 | 1,075 | 1.62 | 0.14 | 58.8 |
| 4/29/2015 1:25:13 | 44.29 | 40.89 | 1,079 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:25:14 | 44.62 | 41.22 | 1,079 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:25:14 | 44.95 | 41.55 | 1,076 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:14 | 45.28 | 41.88 | 1,076 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:14 | 45.60 | 42.20 | 1,072 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:25:15 | 45.93 | 42.53 | 1,079 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:25:15 | 46.26 | 42.86 | 1,079 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:25:15 | 46.59 | 43.19 | 1,082 | 1.61 | 0.14 | 59.2 |
| 4/29/2015 1:25:16 | 46.92 | 43.52 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:16 | 47.24 | 43.84 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:25:16 | 47.57 | 44.17 | 1,072 | 1.63 | 0.14 | 58.6 |
| 4/29/2015 1:25:17 | 47.90 | 44.50 | 1,086 | 1.63 | 0.14 | 59.4 |
| 4/29/2015 1:25:17 | 48.23 | 44.83 | 1,086 | 1.63 | 0.14 | 59.4 |
| 4/29/2015 1:25:17 | 48.56 | 45.16 | 1,079 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:25:18 | 48.88 | 45.48 | 1,076 | 1.64 | 0.14 | 58.9 |
| 4/29/2015 1:25:19 | 49.21 | 45.81 | 1,076 | 1.64 | 0.14 | 58.9 |
| 4/29/2015 1:25:19 | 49.54 | 46.14 | 1,061 | 1.64 | 0.14 | 58.0 |
| 4/29/2015 1:25:19 | 49.87 | 46.47 | 1,061 | 1.64 | 0.14 | 58.0 |
| 4/29/2015 1:25:19 | 50.20 | 46.80 | 1,080 | 1.68 | 0.14 | 59.1 |
| 4/29/2015 1:25:29 | 50.53 | 47.13 | 34 | 1.67 | 1.47 | 1.9 |
| 4/29/2015 1:25:35 | 50.85 | 47.45 | 0 | 1.67 | 1.04 | 0.0 |
| 4/29/2015 1:25:38 | 51.18 | 47.78 | 93 | 1.65 | 1.31 | 5.1 |
| 4/29/2015 1:25:40 | 51.51 | 48.11 | 132 | 1.57 | 1.23 | 7.2 |
| 4/29/2015 1:25:41 | 51.84 | 48.44 | 293 | 1.62 | 1.25 | 16.0 |
| 4/29/2015 1:25:47 | 52.17 | 48.77 | 77 | 1.62 | 1.25 | 4.2 |
| 4/29/2015 1:25:48 | 52.49 | 49.09 | 230 | 1.72 | 1.10 | 12.6 |
| 4/29/2015 1:25:57 | 52.82 | 49.42 | 29 | 1.65 | 1.31 | 1.6 |
| 4/29/2015 1:26:02 | 53.15 | 49.75 | 79 | 1.63 | 1.34 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:26:06 | 53.48 | 50.08 | 93 | 1.64 | 1.31 | 5.1 |
| 4/29/2015 | 1:26:10 | 53.81 | 50.41 | 107 | 1.52 | 1.25 | 5.9 |
| 4/29/2015 | 1:26:11 | 54.13 | 50.73 | 128 | 1.62 | 1.21 | 7.0 |
| 4/29/2015 | 1:26:13 | 54.46 | 51.06 | 157 | 1.61 | 1.24 | 8.6 |
| 4/29/2015 | 1:26:14 | 54.79 | 51.39 | 195 | 1.63 | 1.21 | 10.6 |
| 4/29/2015 | 1:26:30 | 55.12 | 51.72 | 0 | 1.67 | 1.05 | 0.0 |
| 4/29/2015 | 1:26:35 | 55.45 | 52.05 | 73 | 1.63 | 1.20 | 4.0 |
| 4/29/2015 | 1:26:43 | 55.77 | 52.37 | 37 | 1.66 | 1.26 | 2.0 |
| 4/29/2015 | 1:26:52 | 56.10 | 52.70 | 50 | 1.65 | 1.24 | 2.7 |
| 4/29/2015 | 1:26:56 | 56.43 | 53.03 | 73 | 1.66 | 1.31 | 4.0 |
| 4/29/2015 | 1:27:00 | 56.76 | 53.36 | 93 | 1.61 | 1.24 | 5.1 |
| 4/29/2015 | 1:27:04 | 57.09 | 53.69 | 78 | 1.65 | 1.14 | 4.3 |
| 4/29/2015 | 1:27:11 | 57.41 | 54.01 | 49 | 1.66 | 1.23 | 2.7 |
| 4/29/2015 | 1:27:20 | 57.74 | 54.34 | 38 | 1.68 | 1.23 | 2.1 |
| 4/29/2015 | 1:27:30 | 58.07 | 54.67 | 37 | 1.66 | 1.15 | 2.0 |
| 4/29/2015 | 1:27:34 | 58.23 | 54.83 | 35 | 1.66 | 1.24 | 1.9 |

## I51 - Summary

**Pattern Number:**
AreaI_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:23:45

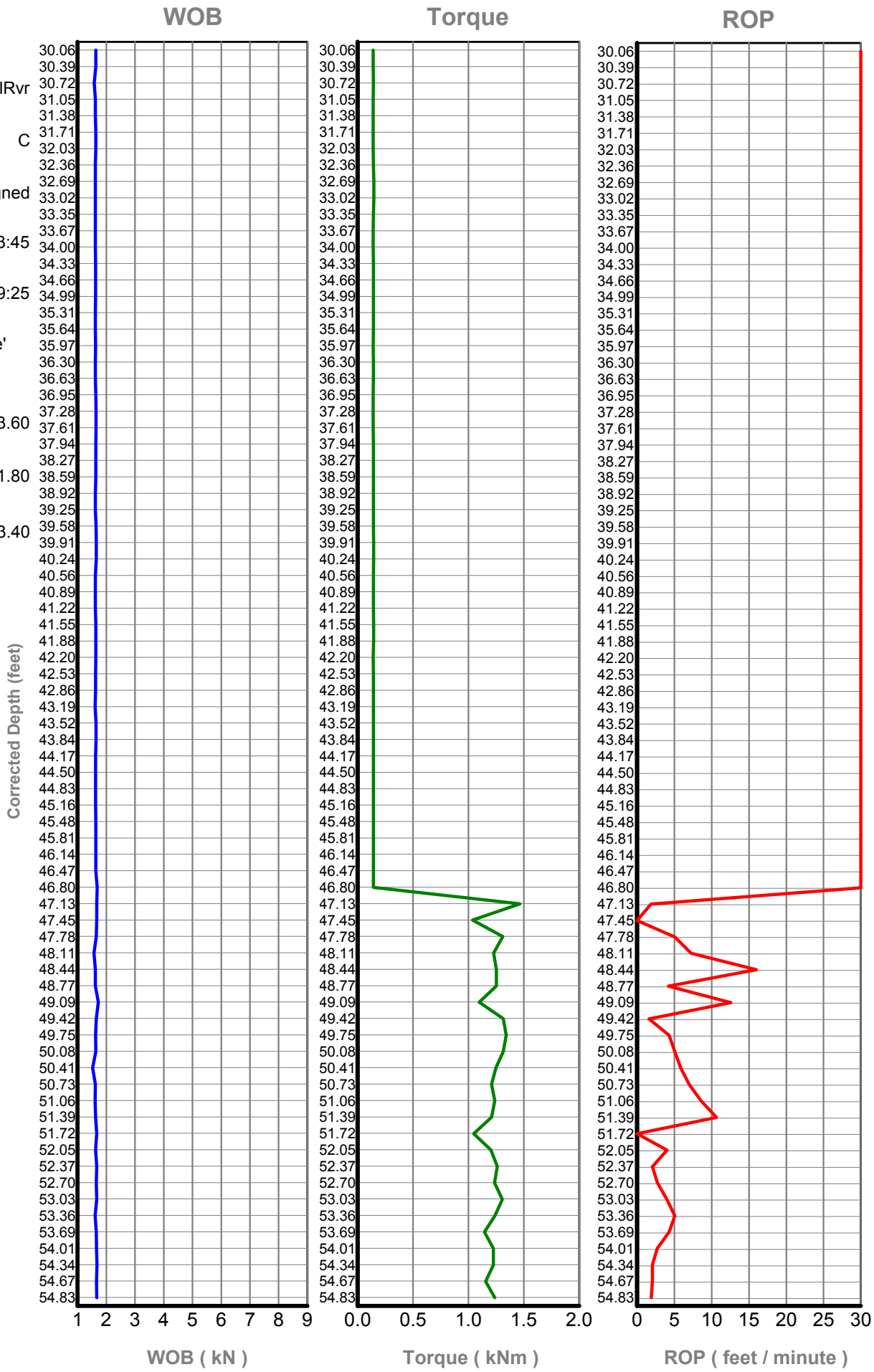
**End Date:**
4/29/2015 1:29:25

**Operator Note:**
'3.4 3.6 c Auto Complete'

**Northing:**
364,353.60

**Easting:**
248,011.80

**Tide (feet):**
3.40



## Hole: I52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:11:35 | 35.76 | 30.16 | 753 | 1.06 | 0.18 | 41.2 |
| 4/28/2015 23:11:36 | 36.09 | 30.49 | 760 | 1.06 | 0.18 | 41.6 |
| 4/28/2015 23:11:36 | 36.42 | 30.82 | 760 | 1.07 | 0.18 | 41.6 |
| 4/28/2015 23:11:37 | 36.75 | 31.15 | 762 | 1.05 | 0.18 | 41.7 |
| 4/28/2015 23:11:37 | 37.07 | 31.47 | 762 | 1.05 | 0.18 | 41.7 |
| 4/28/2015 23:11:37 | 37.40 | 31.80 | 758 | 1.33 | 0.18 | 41.4 |
| 4/28/2015 23:11:38 | 37.73 | 32.13 | 773 | 1.05 | 0.12 | 42.3 |
| 4/28/2015 23:11:38 | 38.06 | 32.46 | 766 | 1.05 | 0.18 | 41.9 |
| 4/28/2015 23:11:39 | 38.39 | 32.79 | 769 | 1.05 | 0.18 | 42.0 |
| 4/28/2015 23:11:39 | 38.71 | 33.11 | 764 | 1.06 | 0.18 | 41.8 |
| 4/28/2015 23:11:40 | 39.04 | 33.44 | 772 | 1.05 | 0.19 | 42.2 |
| 4/28/2015 23:11:41 | 39.37 | 33.77 | 772 | 1.06 | 0.18 | 42.2 |
| 4/28/2015 23:11:41 | 39.70 | 34.10 | 772 | 1.05 | 0.18 | 42.2 |
| 4/28/2015 23:11:42 | 40.03 | 34.43 | 772 | 1.05 | 0.18 | 42.2 |
| 4/28/2015 23:11:42 | 40.35 | 34.75 | 769 | 1.06 | 0.18 | 42.0 |
| 4/28/2015 23:11:42 | 40.68 | 35.08 | 772 | 1.06 | 0.19 | 42.2 |
| 4/28/2015 23:11:43 | 41.01 | 35.41 | 769 | 1.05 | 0.18 | 42.0 |
| 4/28/2015 23:11:43 | 41.34 | 35.74 | 769 | 1.06 | 0.18 | 42.0 |
| 4/28/2015 23:11:44 | 41.67 | 36.07 | 764 | 1.06 | 0.18 | 41.8 |
| 4/28/2015 23:11:44 | 41.99 | 36.39 | 769 | 1.04 | 0.18 | 42.0 |
| 4/28/2015 23:11:45 | 42.32 | 36.72 | 766 | 1.06 | 0.18 | 41.9 |
| 4/28/2015 23:11:45 | 42.65 | 37.05 | 763 | 1.06 | 0.18 | 41.7 |
| 4/28/2015 23:11:46 | 42.98 | 37.38 | 763 | 1.05 | 0.18 | 41.7 |
| 4/28/2015 23:11:46 | 43.31 | 37.71 | 763 | 1.05 | 0.18 | 41.7 |
| 4/28/2015 23:11:46 | 43.64 | 38.04 | 766 | 1.06 | 0.18 | 41.9 |
| 4/28/2015 23:11:47 | 43.96 | 38.36 | 746 | 1.04 | 0.26 | 40.8 |
| 4/28/2015 23:11:47 | 44.29 | 38.69 | 746 | 1.05 | 0.18 | 40.8 |
| 4/28/2015 23:11:48 | 44.62 | 39.02 | 756 | 1.06 | 0.18 | 41.3 |
| 4/28/2015 23:11:48 | 44.95 | 39.35 | 759 | 1.07 | 0.18 | 41.5 |
| 4/28/2015 23:11:49 | 45.28 | 39.68 | 759 | 1.07 | 0.18 | 41.5 |
| 4/28/2015 23:11:50 | 45.60 | 40.00 | 758 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:50 | 45.93 | 40.33 | 760 | 1.07 | 0.18 | 41.6 |
| 4/28/2015 23:11:50 | 46.26 | 40.66 | 760 | 1.07 | 0.18 | 41.6 |
| 4/28/2015 23:11:51 | 46.59 | 40.99 | 760 | 1.06 | 0.16 | 41.6 |
| 4/28/2015 23:11:51 | 46.92 | 41.32 | 759 | 1.06 | 0.18 | 41.5 |
| 4/28/2015 23:11:52 | 47.24 | 41.64 | 754 | 1.06 | 0.18 | 41.2 |
| 4/28/2015 23:11:52 | 47.57 | 41.97 | 751 | 1.05 | 0.18 | 41.1 |
| 4/28/2015 23:11:53 | 47.90 | 42.30 | 754 | 1.07 | 0.17 | 41.3 |
| 4/28/2015 23:11:53 | 48.23 | 42.63 | 764 | 1.05 | 0.18 | 41.8 |
| 4/28/2015 23:11:54 | 48.56 | 42.96 | 757 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:54 | 48.88 | 43.28 | 755 | 1.05 | 0.18 | 41.3 |
| 4/28/2015 23:11:55 | 49.21 | 43.61 | 762 | 1.05 | 0.18 | 41.7 |
| 4/28/2015 23:11:55 | 49.54 | 43.94 | 757 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:56 | 49.87 | 44.27 | 757 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:56 | 50.20 | 44.60 | 757 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:56 | 50.53 | 44.93 | 753 | 1.07 | 0.18 | 41.2 |
| 4/28/2015 23:11:57 | 50.85 | 45.25 | 760 | 1.05 | 0.18 | 41.6 |
| 4/28/2015 23:11:57 | 51.18 | 45.58 | 757 | 1.05 | 0.18 | 41.4 |
| 4/28/2015 23:11:58 | 51.51 | 45.91 | 755 | 1.07 | 0.18 | 41.3 |
| 4/28/2015 23:11:58 | 51.84 | 46.24 | 755 | 1.06 | 0.18 | 41.3 |
| 4/28/2015 23:11:59 | 52.17 | 46.57 | 759 | 1.06 | 0.18 | 41.5 |
| 4/28/2015 23:11:59 | 52.49 | 46.89 | 752 | 1.06 | 0.18 | 41.1 |
| 4/28/2015 23:12:00 | 52.82 | 47.22 | 752 | 1.04 | 0.18 | 41.1 |
| 4/28/2015 23:12:01 | 53.15 | 47.55 | 752 | 1.06 | 0.18 | 41.1 |
| 4/28/2015 23:12:01 | 53.48 | 47.88 | 752 | 1.06 | 0.18 | 41.1 |
| 4/28/2015 23:12:01 | 53.81 | 48.21 | 752 | 1.05 | 0.18 | 41.1 |
| 4/28/2015 23:12:02 | 54.13 | 48.53 | 752 | 1.07 | 0.18 | 41.1 |
| 4/28/2015 23:12:17 | 54.46 | 48.86 | 0 | 1.08 | 1.25 | 0.0 |
| 4/28/2015 23:12:19 | 54.79 | 49.19 | 147 | 1.12 | 0.88 | 8.0 |
| 4/28/2015 23:12:22 | 55.12 | 49.52 | 124 | 1.09 | 1.75 | 6.8 |
| 4/28/2015 23:12:24 | 55.45 | 49.85 | 150 | 1.09 | 1.33 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:12:26 | 55.77 | 50.17 | 222 | 1.19 | 1.09 | 12.2 |
| 4/28/2015 | 23:12:27 | 56.10 | 50.50 | 280 | 1.14 | 0.85 | 15.3 |
| 4/28/2015 | 23:12:28 | 56.43 | 50.83 | 312 | 1.10 | 0.88 | 17.1 |
| 4/28/2015 | 23:12:29 | 56.76 | 51.16 | 344 | 1.09 | 0.81 | 18.8 |
| 4/28/2015 | 23:12:29 | 57.09 | 51.49 | 355 | 1.10 | 0.77 | 19.4 |
| 4/28/2015 | 23:12:30 | 57.41 | 51.81 | 387 | 1.09 | 0.99 | 21.2 |
| 4/28/2015 | 23:12:31 | 57.74 | 52.14 | 405 | 1.16 | 0.95 | 22.1 |
| 4/28/2015 | 23:12:33 | 58.07 | 52.47 | 376 | 1.12 | 0.85 | 20.6 |
| 4/28/2015 | 23:12:34 | 58.40 | 52.80 | 362 | 1.12 | 0.87 | 19.8 |
| 4/28/2015 | 23:12:37 | 58.73 | 53.13 | 125 | 1.13 | 1.01 | 6.8 |
| 4/28/2015 | 23:12:41 | 59.06 | 53.46 | 67 | 1.15 | 1.05 | 3.6 |
| 4/28/2015 | 23:12:45 | 59.38 | 53.78 | 96 | 0.98 | 1.05 | 5.2 |
| 4/28/2015 | 23:12:46 | 59.71 | 54.11 | 157 | 1.83 | 1.19 | 8.6 |
| 4/28/2015 | 23:12:48 | 60.04 | 54.44 | 251 | 1.16 | 1.22 | 13.7 |
| 4/28/2015 | 23:12:57 | 60.37 | 54.77 | 95 | 1.05 | 1.15 | 5.2 |
| 4/28/2015 | 23:13:02 | 60.70 | 55.10 | 62 | 1.02 | 1.02 | 3.4 |
| 4/28/2015 | 23:13:04 | 60.77 | 55.17 | 54 | 1.12 | 1.35 | 2.9 |

## I52 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:09:22

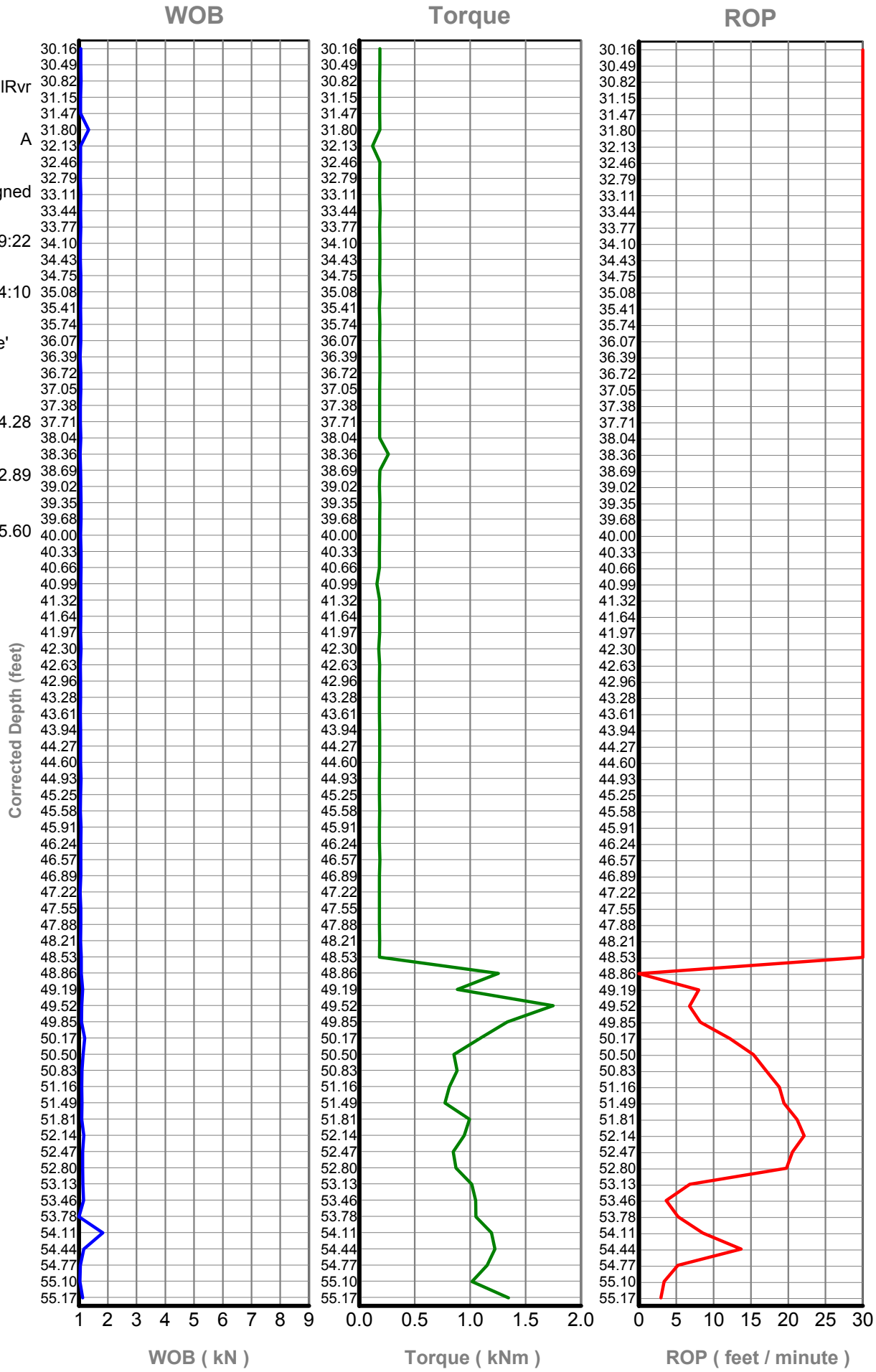
**End Date:**
4/28/2015 23:14:10

**Operator Note:**
'5.6 5.8 b Auto Complete'

**Northing:**
364,414.28

**Easting:**
248,082.89

**Tide (feet):**
5.60



## Hole: I53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:12:11 | 35.76 | 30.16 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/28/2015 23:12:11 | 36.09 | 30.49 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/28/2015 23:12:11 | 36.42 | 30.82 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/28/2015 23:12:12 | 36.75 | 31.15 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/28/2015 23:12:12 | 37.07 | 31.47 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/28/2015 23:12:12 | 37.40 | 31.80 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/28/2015 23:12:13 | 37.73 | 32.13 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/28/2015 23:12:13 | 38.06 | 32.46 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/28/2015 23:12:14 | 38.39 | 32.79 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/28/2015 23:12:14 | 38.71 | 33.11 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/28/2015 23:12:14 | 39.04 | 33.44 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/28/2015 23:12:14 | 39.37 | 33.77 | 1,171 | 0.31 | 0.38 | 64.0 |
| 4/28/2015 23:12:15 | 39.70 | 34.10 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/28/2015 23:12:15 | 40.03 | 34.43 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/28/2015 23:12:15 | 40.35 | 34.75 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/28/2015 23:12:16 | 40.68 | 35.08 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/28/2015 23:12:16 | 41.01 | 35.41 | 1,168 | 0.31 | 0.38 | 63.9 |
| 4/28/2015 23:12:16 | 41.34 | 35.74 | 1,181 | 0.31 | 0.38 | 64.6 |
| 4/28/2015 23:12:17 | 41.67 | 36.07 | 1,181 | 0.31 | 0.38 | 64.6 |
| 4/28/2015 23:12:17 | 41.99 | 36.39 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/28/2015 23:12:17 | 42.32 | 36.72 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/28/2015 23:12:17 | 42.65 | 37.05 | 1,172 | 0.31 | 0.37 | 64.1 |
| 4/28/2015 23:12:18 | 42.98 | 37.38 | 1,158 | 0.31 | 0.37 | 63.3 |
| 4/28/2015 23:12:18 | 43.31 | 37.71 | 1,158 | 0.31 | 0.37 | 63.3 |
| 4/28/2015 23:12:18 | 43.64 | 38.04 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/28/2015 23:12:19 | 43.96 | 38.36 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/28/2015 23:12:19 | 44.29 | 38.69 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/28/2015 23:12:19 | 44.62 | 39.02 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/28/2015 23:12:20 | 44.95 | 39.35 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/28/2015 23:12:20 | 45.28 | 39.68 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/28/2015 23:12:20 | 45.60 | 40.00 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/28/2015 23:12:20 | 45.93 | 40.33 | 1,153 | 0.31 | 0.37 | 63.0 |
| 4/28/2015 23:12:21 | 46.26 | 40.66 | 1,153 | 0.31 | 0.37 | 63.0 |
| 4/28/2015 23:12:21 | 46.59 | 40.99 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/28/2015 23:12:21 | 46.92 | 41.32 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/28/2015 23:12:22 | 47.24 | 41.64 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/28/2015 23:12:22 | 47.57 | 41.97 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/28/2015 23:12:22 | 47.90 | 42.30 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/28/2015 23:12:22 | 48.23 | 42.63 | 1,185 | 0.31 | 0.38 | 64.8 |
| 4/28/2015 23:12:23 | 48.56 | 42.96 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/28/2015 23:12:24 | 48.88 | 43.28 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/28/2015 23:12:23 | 49.21 | 43.61 | 1,158 | 0.31 | 0.37 | 63.3 |
| 4/28/2015 23:12:24 | 49.54 | 43.94 | 1,158 | 0.31 | 0.37 | 63.3 |
| 4/28/2015 23:12:24 | 49.87 | 44.27 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/28/2015 23:12:25 | 50.20 | 44.60 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/28/2015 23:12:25 | 50.53 | 44.93 | 1,166 | 0.31 | 0.38 | 63.8 |
| 4/28/2015 23:12:25 | 50.85 | 45.25 | 1,166 | 0.31 | 0.37 | 63.8 |
| 4/28/2015 23:12:26 | 51.18 | 45.58 | 1,166 | 0.31 | 0.37 | 63.8 |
| 4/28/2015 23:12:25 | 51.51 | 45.91 | 1,153 | 0.31 | 0.38 | 63.0 |
| 4/28/2015 23:12:26 | 51.84 | 46.24 | 1,153 | 0.31 | 0.38 | 63.0 |
| 4/28/2015 23:12:26 | 52.17 | 46.57 | 1,153 | 0.31 | 0.38 | 63.0 |
| 4/28/2015 23:12:27 | 52.49 | 46.89 | 1,170 | 0.31 | 0.38 | 64.0 |
| 4/28/2015 23:12:27 | 52.82 | 47.22 | 1,170 | 0.31 | 0.38 | 64.0 |
| 4/28/2015 23:12:31 | 53.15 | 47.55 | 0 | 3.49 | 0.42 | 0.0 |
| 4/28/2015 23:12:32 | 53.48 | 47.88 | 142 | 5.11 | 0.45 | 7.8 |
| 4/28/2015 23:12:33 | 53.81 | 48.21 | 250 | 3.86 | 0.46 | 13.7 |
| 4/28/2015 23:12:35 | 54.13 | 48.53 | 272 | 3.03 | 0.43 | 14.8 |
| 4/28/2015 23:12:35 | 54.46 | 48.86 | 334 | 3.18 | 0.42 | 18.3 |
| 4/28/2015 23:12:37 | 54.79 | 49.19 | 289 | 5.46 | 0.50 | 15.8 |
| 4/28/2015 23:13:03 | 55.12 | 49.52 | 8 | 4.49 | 0.45 | 0.4 |
| 4/28/2015 23:13:04 | 55.45 | 49.85 | 70 | 2.14 | 0.40 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:13:04 | 55.77 | 50.17 | 229 | 2.68 | 0.43 | 12.5 |
| 4/28/2015 | 23:13:10 | 56.10 | 50.50 | 0 | 2.48 | 0.41 | 0.0 |
| 4/28/2015 | 23:13:11 | 56.43 | 50.83 | 141 | 2.40 | 0.41 | 7.7 |
| 4/28/2015 | 23:13:11 | 56.76 | 51.16 | 273 | 3.14 | 0.43 | 14.9 |
| 4/28/2015 | 23:13:12 | 57.09 | 51.49 | 390 | 2.95 | 0.44 | 21.4 |
| 4/28/2015 | 23:13:13 | 57.41 | 51.81 | 570 | 2.78 | 0.44 | 31.2 |
| 4/28/2015 | 23:13:14 | 57.74 | 52.14 | 425 | 2.78 | 0.44 | 23.2 |
| 4/28/2015 | 23:13:15 | 58.07 | 52.47 | 323 | 2.74 | 0.43 | 17.7 |
| 4/28/2015 | 23:13:16 | 58.40 | 52.80 | 327 | 2.69 | 0.41 | 17.9 |
| 4/28/2015 | 23:13:16 | 58.73 | 53.13 | 327 | 2.70 | 0.41 | 17.9 |
| 4/28/2015 | 23:13:19 | 59.06 | 53.46 | 226 | 2.42 | 0.41 | 12.3 |
| 4/28/2015 | 23:13:19 | 59.38 | 53.78 | 286 | 2.84 | 0.43 | 15.7 |
| 4/28/2015 | 23:13:20 | 59.71 | 54.11 | 350 | 2.87 | 0.43 | 19.1 |
| 4/28/2015 | 23:13:21 | 60.04 | 54.44 | 441 | 2.74 | 0.42 | 24.1 |
| 4/28/2015 | 23:13:22 | 60.37 | 54.77 | 468 | 3.15 | 0.45 | 25.6 |
| 4/28/2015 | 23:13:27 | 60.70 | 55.10 | 90 | 3.09 | 0.46 | 4.9 |
| 4/28/2015 | 23:13:27 | 60.77 | 55.17 | 95 | 2.96 | 0.47 | 5.2 |

## I53 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:10:42

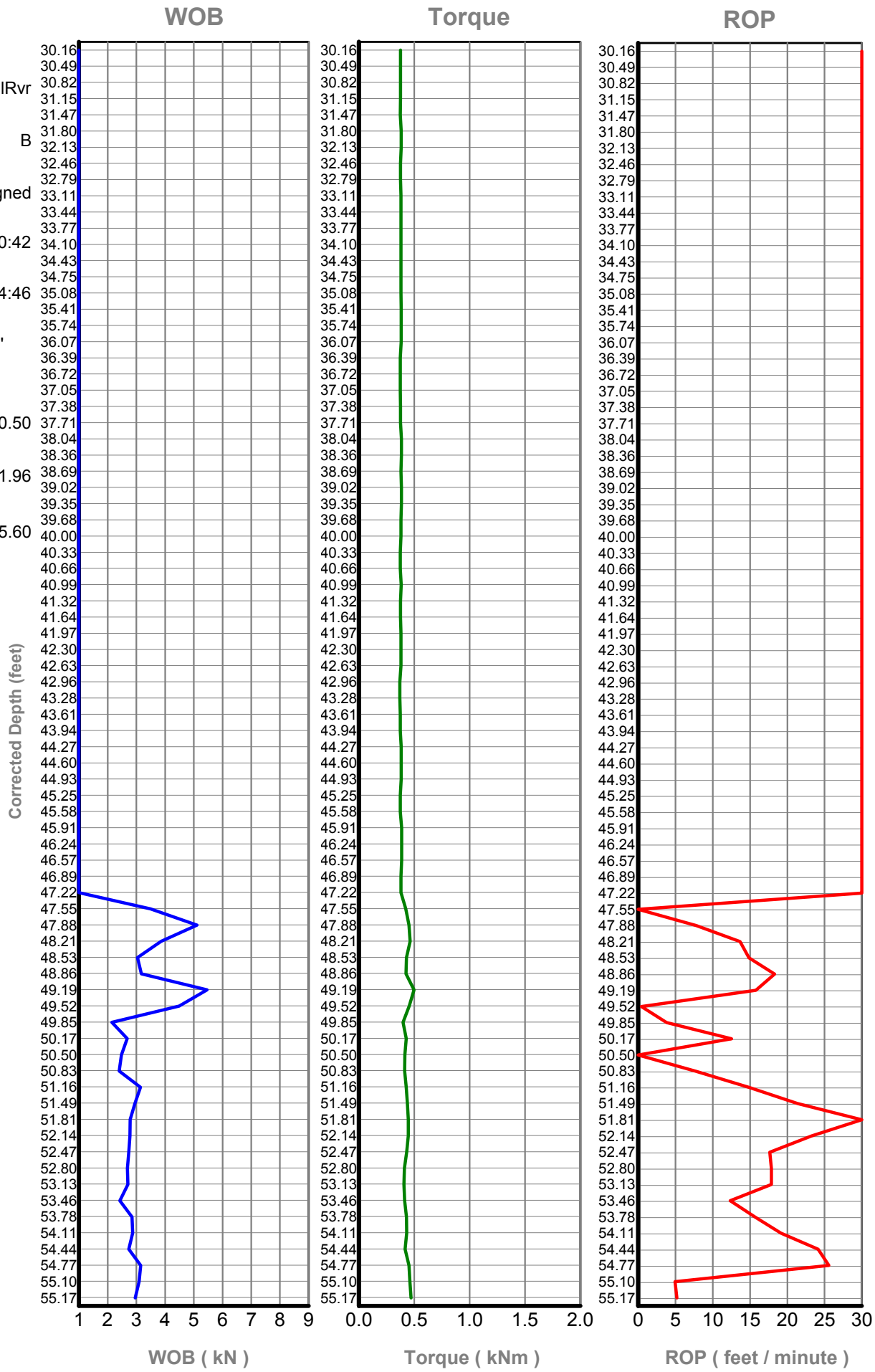
**End Date:**
4/28/2015 23:14:46

**Operator Note:**
'5.6 5.8b Auto Complete'

**Northing:**
364,460.50

**Easting:**
248,141.96

**Tide (feet):**
5.60



## Hole: I54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:11:59 | 35.76 | 30.16 | 1,087 | 1.60 | 0.14 | 59.4 |
| 4/28/2015 23:11:59 | 36.09 | 30.49 | 1,087 | 1.60 | 0.14 | 59.4 |
| 4/28/2015 23:11:59 | 36.42 | 30.82 | 1,098 | 1.59 | 0.14 | 60.1 |
| 4/28/2015 23:12:00 | 36.75 | 31.15 | 1,098 | 1.59 | 0.14 | 60.1 |
| 4/28/2015 23:12:00 | 37.07 | 31.47 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/28/2015 23:12:00 | 37.40 | 31.80 | 1,091 | 1.62 | 0.14 | 59.7 |
| 4/28/2015 23:12:00 | 37.73 | 32.13 | 1,079 | 1.60 | 0.14 | 59.0 |
| 4/28/2015 23:12:01 | 38.06 | 32.46 | 1,056 | 1.62 | 0.14 | 57.8 |
| 4/28/2015 23:12:01 | 38.39 | 32.79 | 1,056 | 1.62 | 0.14 | 57.8 |
| 4/28/2015 23:12:01 | 38.71 | 33.11 | 1,056 | 1.62 | 0.14 | 57.8 |
| 4/28/2015 23:12:02 | 39.04 | 33.44 | 1,066 | 1.59 | 0.14 | 58.3 |
| 4/28/2015 23:12:02 | 39.37 | 33.77 | 1,066 | 1.59 | 0.14 | 58.3 |
| 4/28/2015 23:12:02 | 39.70 | 34.10 | 1,048 | 1.62 | 0.14 | 57.3 |
| 4/28/2015 23:12:03 | 40.03 | 34.43 | 1,043 | 1.61 | 0.14 | 57.0 |
| 4/28/2015 23:12:03 | 40.35 | 34.75 | 1,043 | 1.61 | 0.14 | 57.0 |
| 4/28/2015 23:12:03 | 40.68 | 35.08 | 1,043 | 1.61 | 0.14 | 57.0 |
| 4/28/2015 23:12:04 | 41.01 | 35.41 | 1,044 | 1.60 | 0.14 | 57.1 |
| 4/28/2015 23:12:04 | 41.34 | 35.74 | 1,044 | 1.60 | 0.14 | 57.1 |
| 4/28/2015 23:12:04 | 41.67 | 36.07 | 1,073 | 1.64 | 0.14 | 58.7 |
| 4/28/2015 23:12:05 | 41.99 | 36.39 | 1,073 | 1.64 | 0.14 | 58.7 |
| 4/28/2015 23:12:05 | 42.32 | 36.72 | 1,032 | 1.62 | 0.14 | 56.4 |
| 4/28/2015 23:12:05 | 42.65 | 37.05 | 1,032 | 1.63 | 0.14 | 56.4 |
| 4/28/2015 23:12:06 | 42.98 | 37.38 | 1,032 | 1.63 | 0.14 | 56.4 |
| 4/28/2015 23:12:06 | 43.31 | 37.71 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/28/2015 23:12:06 | 43.64 | 38.04 | 1,074 | 1.63 | 0.14 | 58.7 |
| 4/28/2015 23:12:07 | 43.96 | 38.36 | 1,074 | 1.63 | 0.14 | 58.7 |
| 4/28/2015 23:12:07 | 44.29 | 38.69 | 1,072 | 1.60 | 0.14 | 58.6 |
| 4/28/2015 23:12:08 | 44.62 | 39.02 | 1,044 | 1.63 | 0.14 | 57.1 |
| 4/28/2015 23:12:08 | 44.95 | 39.35 | 1,044 | 1.63 | 0.14 | 57.1 |
| 4/28/2015 23:12:08 | 45.28 | 39.68 | 1,044 | 1.62 | 0.14 | 57.1 |
| 4/28/2015 23:12:09 | 45.60 | 40.00 | 1,071 | 1.62 | 0.14 | 58.6 |
| 4/28/2015 23:12:09 | 45.93 | 40.33 | 1,071 | 1.62 | 0.14 | 58.6 |
| 4/28/2015 23:12:09 | 46.26 | 40.66 | 1,071 | 1.61 | 0.15 | 58.6 |
| 4/28/2015 23:12:10 | 46.59 | 40.99 | 1,071 | 1.61 | 0.15 | 58.6 |
| 4/28/2015 23:12:10 | 46.92 | 41.32 | 1,069 | 1.62 | 0.14 | 58.5 |
| 4/28/2015 23:12:10 | 47.24 | 41.64 | 1,040 | 1.61 | 0.14 | 56.9 |
| 4/28/2015 23:12:11 | 47.57 | 41.97 | 1,040 | 1.61 | 0.14 | 56.9 |
| 4/28/2015 23:12:11 | 47.90 | 42.30 | 1,040 | 1.62 | 0.14 | 56.9 |
| 4/28/2015 23:12:11 | 48.23 | 42.63 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/28/2015 23:12:12 | 48.56 | 42.96 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/28/2015 23:12:12 | 48.88 | 43.28 | 1,048 | 1.61 | 0.14 | 57.3 |
| 4/28/2015 23:12:12 | 49.21 | 43.61 | 1,048 | 1.62 | 0.14 | 57.3 |
| 4/28/2015 23:12:13 | 49.54 | 43.94 | 1,048 | 1.62 | 0.14 | 57.3 |
| 4/28/2015 23:12:13 | 49.87 | 44.27 | 1,053 | 1.59 | 0.14 | 57.6 |
| 4/28/2015 23:12:13 | 50.20 | 44.60 | 1,050 | 1.61 | 0.14 | 57.4 |
| 4/28/2015 23:12:14 | 50.53 | 44.93 | 1,050 | 1.61 | 0.14 | 57.4 |
| 4/28/2015 23:12:14 | 50.85 | 45.25 | 1,072 | 1.62 | 0.14 | 58.6 |
| 4/28/2015 23:12:14 | 51.18 | 45.58 | 1,072 | 1.62 | 0.14 | 58.6 |
| 4/28/2015 23:12:14 | 51.51 | 45.91 | 1,059 | 1.61 | 0.14 | 57.9 |
| 4/28/2015 23:12:15 | 51.84 | 46.24 | 1,076 | 1.70 | 0.14 | 58.9 |
| 4/28/2015 23:12:25 | 52.17 | 46.57 | 37 | 1.68 | 1.19 | 2.0 |
| 4/28/2015 23:12:26 | 52.49 | 46.89 | 99 | 1.72 | 1.15 | 5.4 |
| 4/28/2015 23:12:26 | 52.82 | 47.22 | 222 | 1.70 | 1.11 | 12.1 |
| 4/28/2015 23:12:27 | 53.15 | 47.55 | 362 | 1.66 | 1.09 | 19.8 |
| 4/28/2015 23:12:42 | 53.48 | 47.88 | 30 | 1.68 | 1.31 | 1.7 |
| 4/28/2015 23:12:43 | 53.81 | 48.21 | 92 | 1.65 | 1.25 | 5.0 |
| 4/28/2015 23:13:01 | 54.13 | 48.53 | 50 | 1.66 | 1.13 | 2.8 |
| 4/28/2015 23:13:05 | 54.46 | 48.86 | 89 | 1.69 | 1.22 | 4.8 |
| 4/28/2015 23:13:07 | 54.79 | 49.19 | 124 | 1.65 | 1.14 | 6.8 |
| 4/28/2015 23:13:07 | 55.12 | 49.52 | 177 | 1.64 | 0.97 | 9.7 |
| 4/28/2015 23:13:08 | 55.45 | 49.85 | 177 | 1.66 | 1.05 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:13:18 | 55.77 | 50.17 | 18 | 1.65 | 1.20 | 1.0 |
| 4/28/2015 | 23:13:19 | 56.10 | 50.50 | 155 | 1.62 | 1.30 | 8.5 |
| 4/28/2015 | 23:13:26 | 56.43 | 50.83 | 73 | 1.68 | 1.19 | 4.0 |
| 4/28/2015 | 23:13:28 | 56.76 | 51.16 | 137 | 1.66 | 1.20 | 7.5 |
| 4/28/2015 | 23:13:32 | 57.09 | 51.49 | 127 | 1.64 | 1.25 | 7.0 |
| 4/28/2015 | 23:14:01 | 57.41 | 51.81 | 108 | 1.67 | 1.32 | 5.9 |
| 4/28/2015 | 23:14:05 | 57.74 | 52.14 | 83 | 1.68 | 1.30 | 4.5 |
| 4/28/2015 | 23:14:10 | 58.07 | 52.47 | 72 | 1.65 | 1.32 | 3.9 |
| 4/28/2015 | 23:14:16 | 58.40 | 52.80 | 62 | 1.64 | 1.31 | 3.4 |
| 4/28/2015 | 23:14:23 | 58.73 | 53.13 | 52 | 1.68 | 1.23 | 2.8 |
| 4/28/2015 | 23:14:28 | 59.06 | 53.46 | 66 | 1.66 | 1.31 | 3.6 |
| 4/28/2015 | 23:14:31 | 59.24 | 53.64 | 64 | 1.66 | 1.28 | 3.5 |

## I54 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/28/2015 23:10:32

**End Date:**
4/28/2015 23:18:04

**Operator Note:**
'5.6 5.8 c Auto Complete'

**Northing:**
364,506.72

**Easting:**
248,201.02

**Tide (feet):**
5.60



## Hole: I55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:11:17 | 32.48 | 30.18 | 724 | 1.08 | 0.76 | 39.6 |
| 4/27/2015 17:11:17 | 32.81 | 30.51 | 730 | 1.07 | 0.76 | 39.9 |
| 4/27/2015 17:11:18 | 33.14 | 30.84 | 725 | 1.07 | 0.76 | 39.7 |
| 4/27/2015 17:11:18 | 33.46 | 31.16 | 725 | 1.08 | 0.77 | 39.7 |
| 4/27/2015 17:11:19 | 33.79 | 31.49 | 728 | 1.08 | 0.77 | 39.8 |
| 4/27/2015 17:11:19 | 34.12 | 31.82 | 733 | 1.08 | 0.76 | 40.1 |
| 4/27/2015 17:11:20 | 34.45 | 32.15 | 733 | 1.08 | 0.77 | 40.1 |
| 4/27/2015 17:11:21 | 34.78 | 32.48 | 733 | 1.08 | 0.77 | 40.1 |
| 4/27/2015 17:11:21 | 35.11 | 32.81 | 729 | 1.06 | 0.76 | 39.8 |
| 4/27/2015 17:11:21 | 35.43 | 33.13 | 737 | 1.08 | 0.77 | 40.3 |
| 4/27/2015 17:11:22 | 35.76 | 33.46 | 733 | 1.07 | 0.77 | 40.1 |
| 4/27/2015 17:11:22 | 36.09 | 33.79 | 740 | 1.07 | 0.76 | 40.5 |
| 4/27/2015 17:11:23 | 36.42 | 34.12 | 751 | 1.07 | 0.76 | 41.1 |
| 4/27/2015 17:11:23 | 36.75 | 34.45 | 744 | 1.07 | 0.76 | 40.7 |
| 4/27/2015 17:11:24 | 37.07 | 34.77 | 740 | 1.07 | 0.77 | 40.5 |
| 4/27/2015 17:11:24 | 37.40 | 35.10 | 740 | 1.08 | 0.39 | 40.5 |
| 4/27/2015 17:11:25 | 37.73 | 35.43 | 740 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:11:25 | 38.06 | 35.76 | 740 | 1.08 | 0.19 | 40.5 |
| 4/27/2015 17:11:26 | 38.39 | 36.09 | 739 | 1.08 | 0.19 | 40.4 |
| 4/27/2015 17:11:26 | 38.71 | 36.41 | 746 | 1.07 | 0.19 | 40.8 |
| 4/27/2015 17:11:27 | 39.04 | 36.74 | 746 | 1.07 | 0.19 | 40.8 |
| 4/27/2015 17:11:27 | 39.37 | 37.07 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:11:27 | 39.70 | 37.40 | 749 | 1.09 | 0.19 | 40.9 |
| 4/27/2015 17:11:28 | 40.03 | 37.73 | 746 | 1.07 | 0.19 | 40.8 |
| 4/27/2015 17:11:28 | 40.35 | 38.05 | 746 | 1.08 | 0.20 | 40.8 |
| 4/27/2015 17:11:29 | 40.68 | 38.38 | 743 | 1.07 | 0.20 | 40.6 |
| 4/27/2015 17:11:29 | 41.01 | 38.71 | 740 | 1.07 | 0.20 | 40.5 |
| 4/27/2015 17:11:30 | 41.34 | 39.04 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:11:31 | 41.67 | 39.37 | 737 | 1.08 | 0.20 | 40.3 |
| 4/27/2015 17:11:31 | 41.99 | 39.69 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:11:32 | 42.32 | 40.02 | 737 | 1.08 | 0.19 | 40.3 |
| 4/27/2015 17:11:32 | 42.65 | 40.35 | 740 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:11:33 | 42.98 | 40.68 | 729 | 1.06 | 0.19 | 39.8 |
| 4/27/2015 17:11:33 | 43.31 | 41.01 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:11:34 | 43.64 | 41.34 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:11:34 | 43.96 | 41.66 | 741 | 1.06 | 0.19 | 40.5 |
| 4/27/2015 17:11:34 | 44.29 | 41.99 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:11:35 | 44.62 | 42.32 | 738 | 1.07 | 0.19 | 40.4 |
| 4/27/2015 17:11:35 | 44.95 | 42.65 | 748 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:11:36 | 45.28 | 42.98 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:11:36 | 45.60 | 43.30 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:11:37 | 45.93 | 43.63 | 730 | 1.07 | 0.19 | 39.9 |
| 4/27/2015 17:11:37 | 46.26 | 43.96 | 734 | 1.07 | 0.19 | 40.1 |
| 4/27/2015 17:11:38 | 46.59 | 44.29 | 728 | 1.08 | 0.19 | 39.8 |
| 4/27/2015 17:11:38 | 46.92 | 44.62 | 728 | 1.07 | 0.19 | 39.8 |
| 4/27/2015 17:11:39 | 47.24 | 44.94 | 721 | 1.06 | 0.19 | 39.5 |
| 4/27/2015 17:11:39 | 47.57 | 45.27 | 733 | 1.06 | 0.19 | 40.1 |
| 4/27/2015 17:11:40 | 47.90 | 45.60 | 729 | 1.08 | 0.19 | 39.9 |
| 4/27/2015 17:11:40 | 48.23 | 45.93 | 729 | 1.09 | 0.19 | 39.9 |
| 4/27/2015 17:11:48 | 48.56 | 46.26 | 0 | 1.02 | 0.75 | 0.0 |
| 4/27/2015 17:11:54 | 48.88 | 46.58 | 37 | 1.02 | 1.03 | 2.0 |
| 4/27/2015 17:11:55 | 49.21 | 46.91 | 129 | 0.46 | 1.20 | 7.0 |
| 4/27/2015 17:11:58 | 49.54 | 47.24 | 167 | 1.13 | 1.17 | 9.1 |
| 4/27/2015 17:12:00 | 49.87 | 47.57 | 161 | 0.94 | 1.09 | 8.8 |
| 4/27/2015 17:12:02 | 50.20 | 47.90 | 180 | 0.45 | 0.74 | 9.8 |
| 4/27/2015 17:12:05 | 50.53 | 48.23 | 113 | 1.05 | 0.69 | 6.2 |
| 4/27/2015 17:12:06 | 50.85 | 48.55 | 193 | 1.02 | 1.05 | 10.6 |
| 4/27/2015 17:12:07 | 51.18 | 48.88 | 227 | 0.96 | 0.79 | 12.4 |
| 4/27/2015 17:12:08 | 51.51 | 49.21 | 387 | 1.12 | 0.89 | 21.1 |
| 4/27/2015 17:12:09 | 51.84 | 49.54 | 408 | 1.06 | 1.28 | 22.3 |
| 4/27/2015 17:12:10 | 52.17 | 49.87 | 313 | 1.31 | 0.70 | 17.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:12:11 | 52.49 | 50.19 | 254 | 1.08 | 1.05 | 13.9 |
| 4/27/2015 | 17:12:13 | 52.82 | 50.52 | 257 | 1.04 | 1.12 | 14.1 |
| 4/27/2015 | 17:12:14 | 53.15 | 50.85 | 287 | 1.02 | 0.91 | 15.7 |
| 4/27/2015 | 17:12:16 | 53.48 | 51.18 | 278 | 1.05 | 1.13 | 15.2 |
| 4/27/2015 | 17:12:18 | 53.81 | 51.51 | 178 | 1.11 | 1.38 | 9.8 |
| 4/27/2015 | 17:12:20 | 54.13 | 51.83 | 136 | 1.04 | 1.33 | 7.4 |
| 4/27/2015 | 17:12:24 | 54.46 | 52.16 | 106 | 1.13 | 1.15 | 5.8 |
| 4/27/2015 | 17:12:26 | 54.79 | 52.49 | 141 | 1.08 | 1.21 | 7.7 |
| 4/27/2015 | 17:12:29 | 55.12 | 52.82 | 116 | 1.07 | 1.30 | 6.4 |
| 4/27/2015 | 17:12:32 | 55.45 | 53.15 | 144 | 1.13 | 1.13 | 7.9 |
| 4/27/2015 | 17:12:36 | 55.77 | 53.47 | 69 | 1.05 | 1.07 | 3.8 |
| 4/27/2015 | 17:12:45 | 56.10 | 53.80 | 61 | 1.00 | 1.11 | 3.3 |
| 4/27/2015 | 17:12:51 | 56.43 | 54.13 | 72 | 1.32 | 0.98 | 4.0 |
| 4/27/2015 | 17:12:58 | 56.76 | 54.46 | 49 | 1.11 | 0.89 | 2.7 |
| 4/27/2015 | 17:13:03 | 57.07 | 54.77 | 64 | 0.75 | 1.12 | 3.5 |

## I55 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:09:39

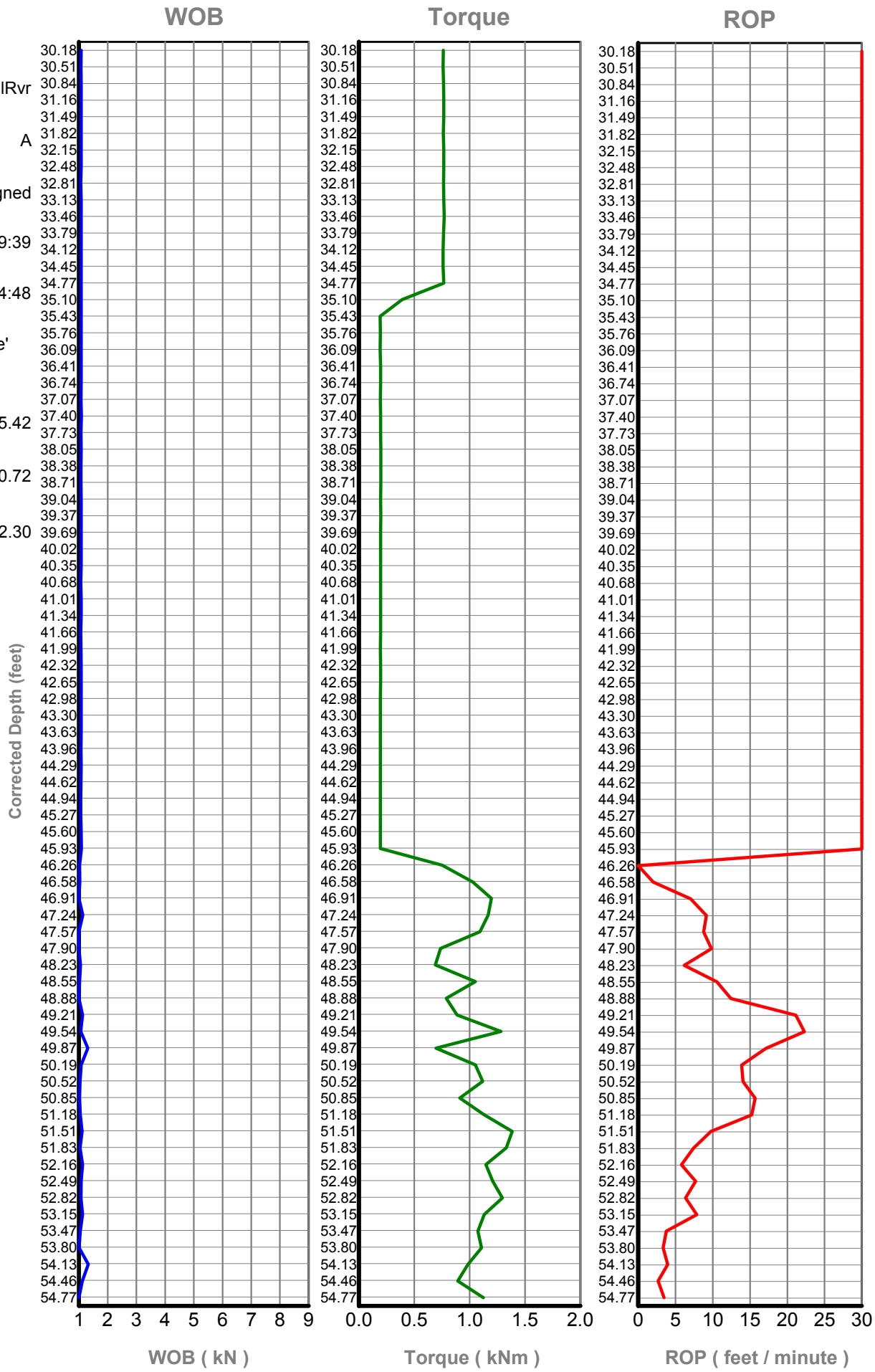
**End Date:**
4/27/2015 17:14:48

**Operator Note:**
'2.3 2.1 a Auto Complete'

**Northing:**
364,555.42

**Easting:**
248,260.72

**Tide (feet):**
2.30



## Hole: I56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:10:21 | 32.48 | 30.28 | 1,142 | 0.27 | 0.32 | 62.4 |
| 4/27/2015 17:10:22 | 32.81 | 30.61 | 1,142 | 0.27 | 0.32 | 62.4 |
| 4/27/2015 17:10:22 | 33.14 | 30.94 | 1,121 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 17:10:22 | 33.46 | 31.26 | 1,121 | 0.29 | 0.32 | 61.3 |
| 4/27/2015 17:10:22 | 33.79 | 31.59 | 1,121 | 0.29 | 0.33 | 61.3 |
| 4/27/2015 17:10:23 | 34.12 | 31.92 | 1,126 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:10:23 | 34.45 | 32.25 | 1,126 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:10:23 | 34.78 | 32.58 | 1,122 | 0.30 | 0.32 | 61.4 |
| 4/27/2015 17:10:24 | 35.11 | 32.91 | 1,122 | 0.30 | 0.32 | 61.4 |
| 4/27/2015 17:10:24 | 35.43 | 33.23 | 1,123 | 0.30 | 0.32 | 61.4 |
| 4/27/2015 17:10:25 | 35.76 | 33.56 | 1,120 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:25 | 36.09 | 33.89 | 1,120 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:25 | 36.42 | 34.22 | 1,142 | 0.30 | 0.31 | 62.5 |
| 4/27/2015 17:10:26 | 36.75 | 34.55 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:10:26 | 37.07 | 34.87 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:10:26 | 37.40 | 35.20 | 1,131 | 0.28 | 0.32 | 61.9 |
| 4/27/2015 17:10:27 | 37.73 | 35.53 | 1,131 | 0.28 | 0.32 | 61.9 |
| 4/27/2015 17:10:27 | 38.06 | 35.86 | 1,127 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:10:27 | 38.39 | 36.19 | 1,104 | 0.29 | 0.33 | 60.4 |
| 4/27/2015 17:10:28 | 38.71 | 36.51 | 1,104 | 0.29 | 0.33 | 60.4 |
| 4/27/2015 17:10:28 | 39.04 | 36.84 | 1,104 | 0.29 | 0.33 | 60.4 |
| 4/27/2015 17:10:28 | 39.37 | 37.17 | 1,104 | 0.29 | 0.33 | 60.4 |
| 4/27/2015 17:10:28 | 39.70 | 37.50 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:10:29 | 40.03 | 37.83 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:29 | 40.35 | 38.15 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:29 | 40.68 | 38.48 | 1,116 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 17:10:30 | 41.01 | 38.81 | 1,116 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 17:10:30 | 41.34 | 39.14 | 1,113 | 0.29 | 0.33 | 60.9 |
| 4/27/2015 17:10:30 | 41.67 | 39.47 | 1,144 | 0.29 | 0.32 | 62.5 |
| 4/27/2015 17:10:31 | 41.99 | 39.79 | 1,144 | 0.29 | 0.32 | 62.5 |
| 4/27/2015 17:10:31 | 42.32 | 40.12 | 1,127 | 0.29 | 0.33 | 61.6 |
| 4/27/2015 17:10:31 | 42.65 | 40.45 | 1,127 | 0.29 | 0.33 | 61.6 |
| 4/27/2015 17:10:31 | 42.98 | 40.78 | 1,134 | 0.29 | 0.29 | 62.0 |
| 4/27/2015 17:10:32 | 43.31 | 41.11 | 1,127 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:10:32 | 43.64 | 41.44 | 1,127 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:10:32 | 43.96 | 41.76 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 17:10:33 | 44.29 | 42.09 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 17:10:33 | 44.62 | 42.42 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 17:10:33 | 44.95 | 42.75 | 1,125 | 0.29 | 0.33 | 61.5 |
| 4/27/2015 17:10:34 | 45.28 | 43.08 | 1,125 | 0.29 | 0.33 | 61.5 |
| 4/27/2015 17:10:34 | 45.60 | 43.40 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 17:10:34 | 45.93 | 43.73 | 1,125 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:10:35 | 46.26 | 44.06 | 1,125 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:10:35 | 46.59 | 44.39 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:36 | 46.92 | 44.72 | 1,119 | 0.29 | 0.32 | 61.2 |
| 4/27/2015 17:10:36 | 47.24 | 45.04 | 1,097 | 0.36 | 0.32 | 60.0 |
| 4/27/2015 17:10:36 | 47.57 | 45.37 | 1,097 | 0.61 | 0.32 | 60.0 |
| 4/27/2015 17:10:37 | 47.90 | 45.70 | 1,097 | 0.61 | 0.32 | 60.0 |
| 4/27/2015 17:10:37 | 48.23 | 46.03 | 1,111 | 0.92 | 0.34 | 60.8 |
| 4/27/2015 17:10:37 | 48.56 | 46.36 | 1,086 | 2.84 | 0.38 | 59.4 |
| 4/27/2015 17:10:43 | 48.88 | 46.68 | 41 | 2.88 | 0.38 | 2.3 |
| 4/27/2015 17:10:43 | 49.21 | 47.01 | 130 | 2.68 | 0.38 | 7.1 |
| 4/27/2015 17:10:44 | 49.54 | 47.34 | 212 | 2.55 | 0.36 | 11.6 |
| 4/27/2015 17:10:44 | 49.87 | 47.67 | 343 | 2.50 | 0.35 | 18.8 |
| 4/27/2015 17:10:51 | 50.20 | 48.00 | 0 | 2.58 | 0.35 | 0.0 |
| 4/27/2015 17:10:51 | 50.53 | 48.33 | 0 | 3.56 | 0.38 | 0.0 |
| 4/27/2015 17:10:52 | 50.85 | 48.65 | 187 | 3.43 | 0.39 | 10.2 |
| 4/27/2015 17:10:54 | 51.18 | 48.98 | 239 | 3.03 | 0.40 | 13.1 |
| 4/27/2015 17:11:05 | 51.51 | 49.31 | 9 | 3.70 | 0.41 | 0.5 |
| 4/27/2015 17:11:11 | 51.84 | 49.64 | 67 | 3.29 | 0.41 | 3.7 |
| 4/27/2015 17:11:15 | 52.17 | 49.97 | 66 | 2.99 | 0.41 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:11:19 | 52.49 | 50.29 | 107 | 3.47 | 0.41 | 5.8 |
| 4/27/2015 | 17:11:23 | 52.82 | 50.62 | 110 | 3.76 | 0.40 | 6.0 |
| 4/27/2015 | 17:11:24 | 53.15 | 50.95 | 181 | 3.59 | 0.40 | 9.9 |
| 4/27/2015 | 17:11:29 | 53.48 | 51.28 | 52 | 3.07 | 0.41 | 2.8 |
| 4/27/2015 | 17:11:37 | 53.81 | 51.61 | 43 | 2.97 | 0.41 | 2.4 |
| 4/27/2015 | 17:11:42 | 54.13 | 51.93 | 78 | 3.18 | 0.40 | 4.3 |
| 4/27/2015 | 17:11:46 | 54.33 | 52.13 | 52 | 2.67 | 0.40 | 2.8 |

## I56 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:08:40

**End Date:**
4/27/2015 17:13:07

**Operator Note:**
'2.2 2.1 b Rock'

**Northing:**
364,602.05

**Easting:**
248,319.46

**Tide (feet):**
2.20



## Hole: I57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:10:31 | 32.48 | 30.18 | 1,107 | 1.60 | 0.28 | 60.5 |
| 4/27/2015 17:10:31 | 32.81 | 30.51 | 1,100 | 1.61 | 0.28 | 60.2 |
| 4/27/2015 17:10:32 | 33.14 | 30.84 | 1,100 | 1.61 | 0.28 | 60.2 |
| 4/27/2015 17:10:32 | 33.46 | 31.16 | 1,107 | 1.59 | 0.28 | 60.5 |
| 4/27/2015 17:10:32 | 33.79 | 31.49 | 1,101 | 1.60 | 0.28 | 60.2 |
| 4/27/2015 17:10:33 | 34.12 | 31.82 | 1,101 | 1.60 | 0.28 | 60.2 |
| 4/27/2015 17:10:33 | 34.45 | 32.15 | 1,101 | 1.64 | 0.28 | 60.2 |
| 4/27/2015 17:10:33 | 34.78 | 32.48 | 1,101 | 1.64 | 0.28 | 60.2 |
| 4/27/2015 17:10:33 | 35.11 | 32.81 | 1,099 | 1.59 | 0.28 | 60.1 |
| 4/27/2015 17:10:34 | 35.43 | 33.13 | 1,108 | 1.62 | 0.29 | 60.6 |
| 4/27/2015 17:10:34 | 35.76 | 33.46 | 1,108 | 1.62 | 0.29 | 60.6 |
| 4/27/2015 17:10:34 | 36.09 | 33.79 | 1,099 | 1.59 | 0.29 | 60.1 |
| 4/27/2015 17:10:35 | 36.42 | 34.12 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:10:35 | 36.75 | 34.45 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:10:35 | 37.07 | 34.77 | 1,088 | 1.61 | 0.29 | 59.5 |
| 4/27/2015 17:10:36 | 37.40 | 35.10 | 1,088 | 1.61 | 0.29 | 59.5 |
| 4/27/2015 17:10:36 | 37.73 | 35.43 | 1,092 | 1.60 | 0.29 | 59.7 |
| 4/27/2015 17:10:36 | 38.06 | 35.76 | 1,092 | 1.61 | 0.29 | 59.7 |
| 4/27/2015 17:10:37 | 38.39 | 36.09 | 1,092 | 1.61 | 0.29 | 59.7 |
| 4/27/2015 17:10:37 | 38.71 | 36.41 | 1,073 | 1.59 | 0.29 | 58.7 |
| 4/27/2015 17:10:37 | 39.04 | 36.74 | 1,073 | 1.61 | 0.29 | 58.7 |
| 4/27/2015 17:10:38 | 39.37 | 37.07 | 1,073 | 1.61 | 0.29 | 58.7 |
| 4/27/2015 17:10:38 | 39.70 | 37.40 | 1,095 | 1.61 | 0.27 | 59.9 |
| 4/27/2015 17:10:39 | 40.03 | 37.73 | 1,095 | 1.61 | 0.27 | 59.9 |
| 4/27/2015 17:10:39 | 40.35 | 38.05 | 1,099 | 1.62 | 0.29 | 60.1 |
| 4/27/2015 17:10:39 | 40.68 | 38.38 | 1,079 | 1.59 | 0.29 | 59.0 |
| 4/27/2015 17:10:40 | 41.01 | 38.71 | 1,079 | 1.59 | 0.29 | 59.0 |
| 4/27/2015 17:10:40 | 41.34 | 39.04 | 1,079 | 1.59 | 0.29 | 59.0 |
| 4/27/2015 17:10:40 | 41.67 | 39.37 | 1,082 | 1.60 | 0.29 | 59.2 |
| 4/27/2015 17:10:41 | 41.99 | 39.69 | 1,082 | 1.60 | 0.29 | 59.2 |
| 4/27/2015 17:10:41 | 42.32 | 40.02 | 1,071 | 1.62 | 0.29 | 58.6 |
| 4/27/2015 17:10:41 | 42.65 | 40.35 | 1,071 | 1.62 | 0.29 | 58.6 |
| 4/27/2015 17:10:41 | 42.98 | 40.68 | 1,071 | 1.63 | 0.29 | 58.6 |
| 4/27/2015 17:10:42 | 43.31 | 41.01 | 1,066 | 1.61 | 0.28 | 58.3 |
| 4/27/2015 17:10:42 | 43.64 | 41.34 | 1,066 | 1.61 | 0.28 | 58.3 |
| 4/27/2015 17:10:42 | 43.96 | 41.66 | 1,076 | 1.60 | 0.29 | 58.9 |
| 4/27/2015 17:10:43 | 44.29 | 41.99 | 1,093 | 1.61 | 0.28 | 59.8 |
| 4/27/2015 17:10:43 | 44.62 | 42.32 | 1,093 | 1.61 | 0.28 | 59.8 |
| 4/27/2015 17:10:43 | 44.95 | 42.65 | 1,059 | 1.59 | 0.29 | 57.9 |
| 4/27/2015 17:10:44 | 45.28 | 42.98 | 1,067 | 1.59 | 0.28 | 58.4 |
| 4/27/2015 17:10:44 | 45.60 | 43.30 | 1,067 | 1.59 | 0.28 | 58.4 |
| 4/27/2015 17:10:44 | 45.93 | 43.63 | 1,067 | 1.62 | 0.28 | 58.4 |
| 4/27/2015 17:10:45 | 46.26 | 43.96 | 1,067 | 1.62 | 0.28 | 58.4 |
| 4/27/2015 17:10:45 | 46.59 | 44.29 | 1,074 | 1.62 | 0.29 | 58.8 |
| 4/27/2015 17:10:45 | 46.92 | 44.62 | 1,062 | 1.60 | 0.28 | 58.1 |
| 4/27/2015 17:10:46 | 47.24 | 44.94 | 1,062 | 1.60 | 0.28 | 58.1 |
| 4/27/2015 17:10:46 | 47.57 | 45.27 | 1,059 | 1.66 | 0.29 | 57.9 |
| 4/27/2015 17:11:06 | 47.90 | 45.60 | 41 | 1.68 | 1.05 | 2.3 |
| 4/27/2015 17:11:06 | 48.23 | 45.93 | 174 | 1.64 | 1.03 | 9.5 |
| 4/27/2015 17:11:07 | 48.56 | 46.26 | 174 | 1.68 | 1.07 | 9.5 |
| 4/27/2015 17:11:07 | 48.88 | 46.58 | 336 | 1.66 | 1.08 | 18.4 |
| 4/27/2015 17:11:08 | 49.21 | 46.91 | 486 | 1.74 | 1.03 | 26.6 |
| 4/27/2015 17:11:08 | 49.54 | 47.24 | 637 | 1.73 | 1.08 | 34.9 |
| 4/27/2015 17:11:09 | 49.87 | 47.57 | 742 | 1.72 | 1.04 | 40.6 |
| 4/27/2015 17:11:10 | 50.20 | 47.90 | 753 | 1.67 | 1.00 | 41.2 |
| 4/27/2015 17:11:10 | 50.53 | 48.23 | 753 | 1.67 | 1.00 | 41.2 |
| 4/27/2015 17:11:10 | 50.85 | 48.55 | 734 | 1.70 | 0.95 | 40.1 |
| 4/27/2015 17:11:57 | 51.18 | 48.88 | 100 | 1.64 | 1.27 | 5.5 |
| 4/27/2015 17:11:58 | 51.51 | 49.21 | 170 | 1.66 | 1.19 | 9.3 |
| 4/27/2015 17:11:59 | 51.84 | 49.54 | 256 | 1.62 | 1.17 | 14.0 |
| 4/27/2015 17:12:00 | 52.17 | 49.87 | 412 | 1.70 | 1.29 | 22.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:12:01 | 52.49 | 50.19 | 376 | 1.70 | 1.26 | 20.6 |
| 4/27/2015 | 17:12:02 | 52.82 | 50.52 | 347 | 1.67 | 1.21 | 19.0 |
| 4/27/2015 | 17:12:03 | 53.15 | 50.85 | 359 | 1.65 | 1.20 | 19.6 |
| 4/27/2015 | 17:12:04 | 53.48 | 51.18 | 428 | 1.68 | 1.15 | 23.4 |
| 4/27/2015 | 17:12:04 | 53.81 | 51.51 | 451 | 1.65 | 1.31 | 24.7 |
| 4/27/2015 | 17:12:05 | 54.13 | 51.83 | 433 | 1.68 | 1.14 | 23.7 |
| 4/27/2015 | 17:12:52 | 54.46 | 52.16 | 0 | 1.68 | 1.05 | 0.0 |
| 4/27/2015 | 17:12:54 | 54.79 | 52.49 | 164 | 1.66 | 1.17 | 9.0 |
| 4/27/2015 | 17:13:32 | 55.12 | 52.82 | 0 | 1.63 | 1.23 | 0.0 |
| 4/27/2015 | 17:13:46 | 55.45 | 53.15 | 46 | 1.66 | 1.24 | 2.5 |
| 4/27/2015 | 17:13:53 | 55.77 | 53.47 | 52 | 1.67 | 1.24 | 2.8 |
| 4/27/2015 | 17:14:01 | 56.10 | 53.80 | 48 | 1.66 | 1.30 | 2.6 |
| 4/27/2015 | 17:14:13 | 56.43 | 54.13 | 43 | 1.66 | 1.20 | 2.3 |
| 4/27/2015 | 17:14:20 | 56.76 | 54.46 | 52 | 1.66 | 1.30 | 2.9 |
| 4/27/2015 | 17:14:21 | 56.85 | 54.55 | 50 | 1.66 | 1.20 | 2.7 |

## I57 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:09:05

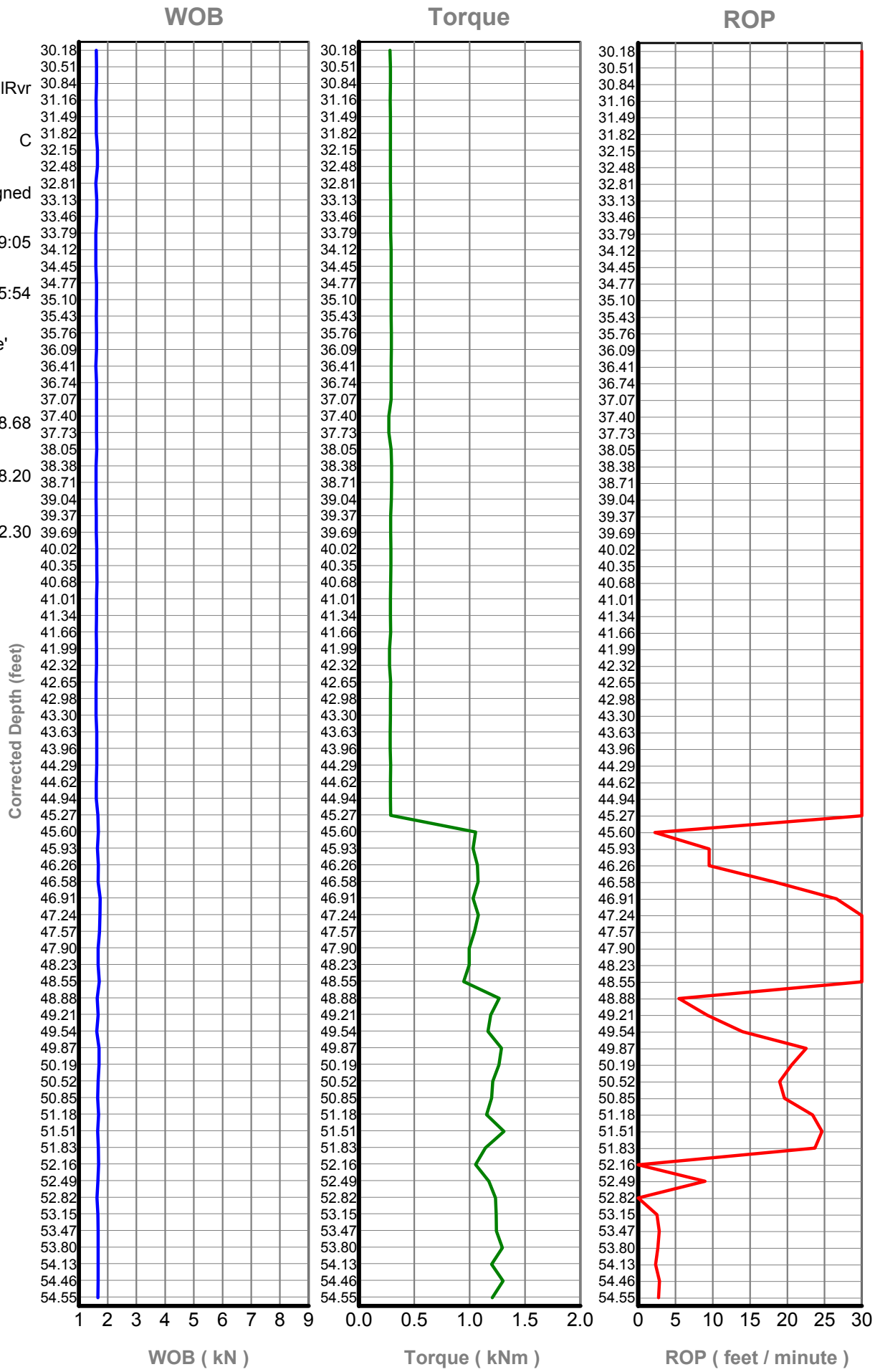
**End Date:**
4/27/2015 17:15:54

**Operator Note:**
'2.3 2.1 c Auto Complete'

**Northing:**
364,648.68

**Easting:**
248,378.20

**Tide (feet):**
2.30



## Hole: I58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:28:46 | 30.51 | 30.01 | 1,097 | 1.63 | 0.28 | 60.0 |
| 4/27/2015 15:28:46 | 30.84 | 30.34 | 1,101 | 1.62 | 0.27 | 60.2 |
| 4/27/2015 15:28:47 | 31.17 | 30.67 | 1,086 | 1.66 | 0.28 | 59.4 |
| 4/27/2015 15:28:47 | 31.50 | 31.00 | 1,086 | 1.66 | 0.28 | 59.4 |
| 4/27/2015 15:28:47 | 31.82 | 31.32 | 1,087 | 1.65 | 0.28 | 59.4 |
| 4/27/2015 15:28:48 | 32.15 | 31.65 | 1,067 | 1.65 | 0.29 | 58.3 |
| 4/27/2015 15:28:48 | 32.48 | 31.98 | 1,067 | 1.65 | 0.29 | 58.3 |
| 4/27/2015 15:28:48 | 32.81 | 32.31 | 1,055 | 1.64 | 0.28 | 57.7 |
| 4/27/2015 15:28:49 | 33.14 | 32.64 | 1,055 | 1.64 | 0.28 | 57.7 |
| 4/27/2015 15:28:49 | 33.46 | 32.96 | 1,037 | 1.63 | 0.28 | 56.7 |
| 4/27/2015 15:28:49 | 33.79 | 33.29 | 1,044 | 1.63 | 0.28 | 57.1 |
| 4/27/2015 15:28:50 | 34.12 | 33.62 | 1,044 | 1.63 | 0.28 | 57.1 |
| 4/27/2015 15:28:50 | 34.45 | 33.95 | 1,035 | 1.64 | 0.28 | 56.6 |
| 4/27/2015 15:28:50 | 34.78 | 34.28 | 1,035 | 1.58 | 0.28 | 56.6 |
| 4/27/2015 15:28:51 | 35.11 | 34.61 | 1,035 | 1.58 | 0.28 | 56.6 |
| 4/27/2015 15:28:51 | 35.43 | 34.93 | 1,046 | 1.66 | 0.27 | 57.2 |
| 4/27/2015 15:28:51 | 35.76 | 35.26 | 1,061 | 1.64 | 0.29 | 58.0 |
| 4/27/2015 15:28:52 | 36.09 | 35.59 | 1,061 | 1.64 | 0.29 | 58.0 |
| 4/27/2015 15:28:52 | 36.42 | 35.92 | 1,074 | 1.63 | 0.29 | 58.7 |
| 4/27/2015 15:28:52 | 36.75 | 36.25 | 1,082 | 1.62 | 0.28 | 59.1 |
| 4/27/2015 15:28:53 | 37.07 | 36.57 | 1,082 | 1.62 | 0.28 | 59.1 |
| 4/27/2015 15:28:53 | 37.40 | 36.90 | 1,093 | 1.62 | 0.28 | 59.8 |
| 4/27/2015 15:28:53 | 37.73 | 37.23 | 1,093 | 1.62 | 0.28 | 59.8 |
| 4/27/2015 15:28:53 | 38.06 | 37.56 | 1,100 | 1.62 | 0.28 | 60.1 |
| 4/27/2015 15:28:54 | 38.39 | 37.89 | 1,097 | 1.62 | 0.28 | 60.0 |
| 4/27/2015 15:28:54 | 38.71 | 38.21 | 1,097 | 1.62 | 0.28 | 60.0 |
| 4/27/2015 15:28:54 | 39.04 | 38.54 | 1,083 | 1.64 | 0.29 | 59.2 |
| 4/27/2015 15:28:55 | 39.37 | 38.87 | 1,087 | 1.64 | 0.29 | 59.4 |
| 4/27/2015 15:28:55 | 39.70 | 39.20 | 1,087 | 1.64 | 0.29 | 59.4 |
| 4/27/2015 15:28:55 | 40.03 | 39.53 | 1,093 | 1.64 | 0.28 | 59.8 |
| 4/27/2015 15:28:56 | 40.35 | 39.85 | 1,093 | 1.64 | 0.28 | 59.8 |
| 4/27/2015 15:28:56 | 40.68 | 40.18 | 1,090 | 1.62 | 0.28 | 59.6 |
| 4/27/2015 15:28:56 | 41.01 | 40.51 | 1,083 | 1.62 | 0.28 | 59.2 |
| 4/27/2015 15:28:57 | 41.34 | 40.84 | 1,083 | 1.62 | 0.28 | 59.2 |
| 4/27/2015 15:28:57 | 41.67 | 41.17 | 1,090 | 1.63 | 0.28 | 59.6 |
| 4/27/2015 15:28:58 | 41.99 | 41.49 | 1,093 | 1.61 | 0.28 | 59.8 |
| 4/27/2015 15:28:58 | 42.32 | 41.82 | 1,093 | 1.61 | 0.28 | 59.8 |
| 4/27/2015 15:28:58 | 42.65 | 42.15 | 1,087 | 1.62 | 0.28 | 59.5 |
| 4/27/2015 15:28:59 | 42.98 | 42.48 | 1,081 | 1.62 | 0.29 | 59.1 |
| 4/27/2015 15:28:59 | 43.31 | 42.81 | 1,081 | 1.62 | 0.29 | 59.1 |
| 4/27/2015 15:28:59 | 43.64 | 43.14 | 1,094 | 1.63 | 0.28 | 59.8 |
| 4/27/2015 15:29:00 | 43.96 | 43.46 | 1,094 | 1.63 | 0.28 | 59.8 |
| 4/27/2015 15:29:00 | 44.29 | 43.79 | 1,090 | 1.62 | 0.28 | 59.6 |
| 4/27/2015 15:29:00 | 44.62 | 44.12 | 1,087 | 1.64 | 0.29 | 59.4 |
| 4/27/2015 15:29:01 | 44.95 | 44.45 | 1,087 | 1.64 | 0.29 | 59.4 |
| 4/27/2015 15:29:01 | 45.28 | 44.78 | 1,087 | 1.67 | 0.28 | 59.4 |
| 4/27/2015 15:29:11 | 45.60 | 45.10 | 0 | 1.76 | 1.08 | 0.0 |
| 4/27/2015 15:29:12 | 45.93 | 45.43 | 57 | 1.70 | 1.07 | 3.1 |
| 4/27/2015 15:29:13 | 46.26 | 45.76 | 135 | 1.70 | 1.07 | 7.4 |
| 4/27/2015 15:29:13 | 46.59 | 46.09 | 277 | 1.72 | 1.03 | 15.2 |
| 4/27/2015 15:29:14 | 46.92 | 46.42 | 427 | 1.72 | 1.12 | 23.4 |
| 4/27/2015 15:29:14 | 47.24 | 46.74 | 549 | 1.71 | 1.01 | 30.0 |
| 4/27/2015 15:29:41 | 47.57 | 47.07 | 5 | 1.72 | 1.07 | 0.3 |
| 4/27/2015 15:29:41 | 47.90 | 47.40 | 5 | 3.39 | 0.88 | 0.3 |
| 4/27/2015 15:30:08 | 48.23 | 47.73 | 0 | 1.72 | 1.15 | 0.0 |
| 4/27/2015 15:30:08 | 48.56 | 48.06 | 103 | 1.74 | 1.20 | 5.6 |
| 4/27/2015 15:30:09 | 48.88 | 48.38 | 217 | 1.72 | 1.26 | 11.9 |
| 4/27/2015 15:30:09 | 49.21 | 48.71 | 332 | 1.75 | 1.34 | 18.1 |
| 4/27/2015 15:30:10 | 49.54 | 49.04 | 470 | 1.93 | 0.91 | 25.7 |
| 4/27/2015 15:30:44 | 49.87 | 49.37 | 0 | 1.68 | 0.99 | 0.0 |
| 4/27/2015 15:30:45 | 50.20 | 49.70 | 113 | 1.71 | 1.30 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:30:46 | 50.53 | 50.03 | 213 | 1.70 | 1.06 | 11.6 |
| 4/27/2015 | 15:30:46 | 50.85 | 50.35 | 213 | 1.70 | 0.91 | 11.6 |
| 4/27/2015 | 15:30:47 | 51.18 | 50.68 | 374 | 1.68 | 0.86 | 20.4 |
| 4/27/2015 | 15:30:47 | 51.51 | 51.01 | 374 | 1.68 | 0.86 | 20.4 |
| 4/27/2015 | 15:30:47 | 51.84 | 51.34 | 504 | 1.68 | 0.83 | 27.6 |
| 4/27/2015 | 15:30:48 | 52.17 | 51.67 | 504 | 1.71 | 0.83 | 27.6 |
| 4/27/2015 | 15:30:48 | 52.49 | 51.99 | 621 | 1.70 | 0.83 | 34.0 |
| 4/27/2015 | 15:31:39 | 52.82 | 52.32 | 0 | 1.68 | 0.84 | 0.0 |
| 4/27/2015 | 15:31:39 | 53.15 | 52.65 | 157 | 1.71 | 0.83 | 8.6 |
| 4/27/2015 | 15:31:40 | 53.48 | 52.98 | 157 | 1.71 | 0.83 | 8.6 |
| 4/27/2015 | 15:31:40 | 53.81 | 53.31 | 328 | 1.69 | 0.83 | 17.9 |
| 4/27/2015 | 15:31:40 | 54.13 | 53.63 | 328 | 1.69 | 0.83 | 17.9 |
| 4/27/2015 | 15:31:41 | 54.46 | 53.96 | 490 | 1.68 | 0.83 | 26.8 |
| 4/27/2015 | 15:31:41 | 54.79 | 54.29 | 650 | 1.73 | 0.87 | 35.5 |
| 4/27/2015 | 15:31:42 | 55.12 | 54.62 | 799 | 1.68 | 1.02 | 43.7 |
| 4/27/2015 | 15:31:48 | 55.45 | 54.95 | 0 | 1.68 | 0.86 | 0.0 |
| 4/27/2015 | 15:31:49 | 55.77 | 55.27 | 116 | 1.72 | 1.11 | 6.3 |

## I58 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/27/2015 15:27:10

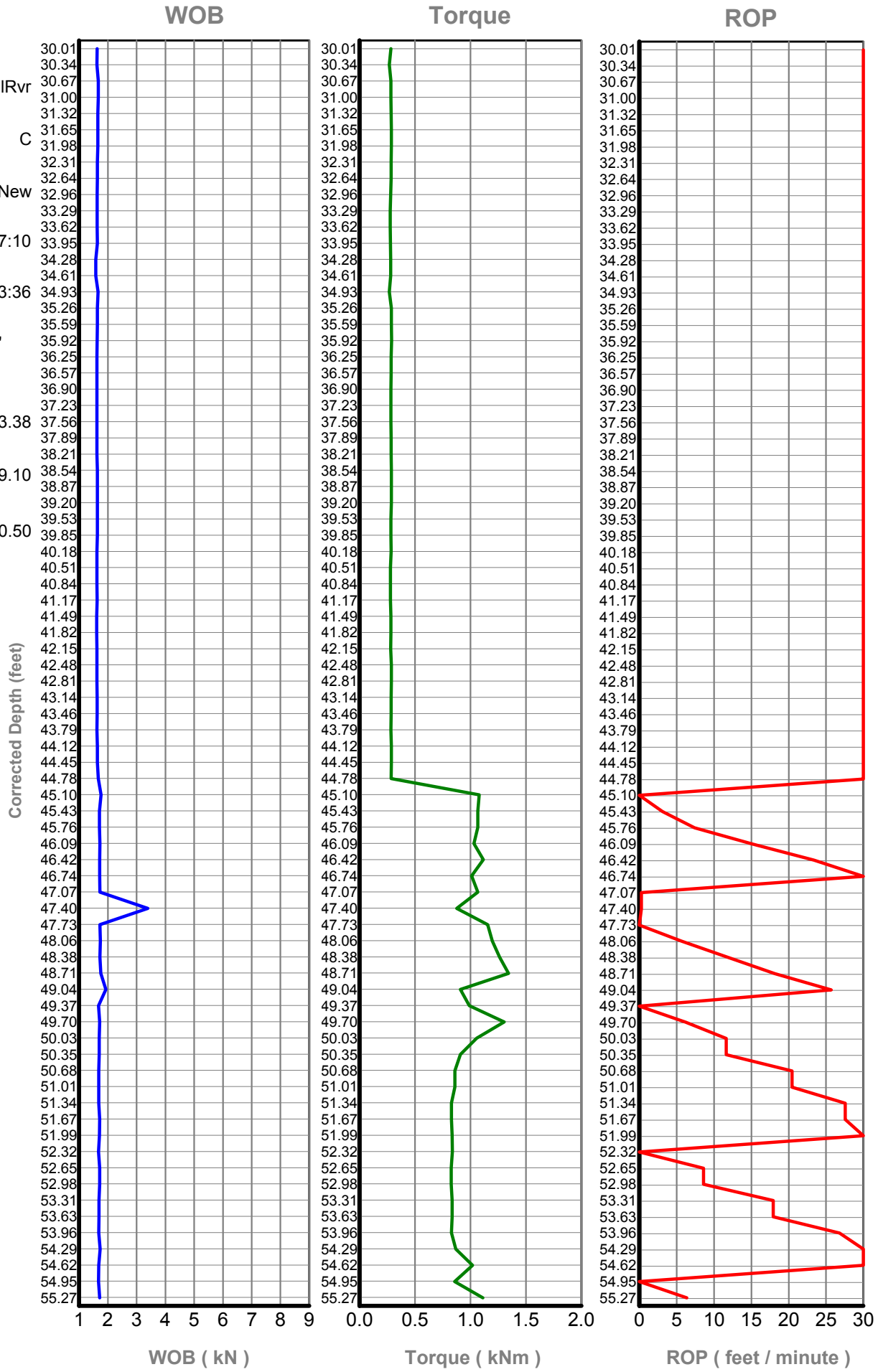
**End Date:**
4/27/2015 15:33:36

**Operator Note:**
'0.5 .6 C Auto Complete'

**Northing:**
364,693.38

**Easting:**
248,439.10

**Tide (feet):**
0.50



## Hole: I59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:28:54 | 30.51 | 30.01 | 1,130 | 0.28 | 0.31 | 61.8 |
| 4/27/2015 15:28:54 | 30.84 | 30.34 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 15:28:55 | 31.17 | 30.67 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 15:28:55 | 31.50 | 31.00 | 1,128 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:28:55 | 31.82 | 31.32 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 15:28:56 | 32.15 | 31.65 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 15:28:56 | 32.48 | 31.98 | 1,135 | 0.32 | 0.32 | 62.1 |
| 4/27/2015 15:28:56 | 32.81 | 32.31 | 1,135 | 0.32 | 0.32 | 62.1 |
| 4/27/2015 15:28:56 | 33.14 | 32.64 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 15:28:57 | 33.46 | 32.96 | 1,131 | 0.28 | 0.32 | 61.9 |
| 4/27/2015 15:28:57 | 33.79 | 33.29 | 1,131 | 0.28 | 0.32 | 61.9 |
| 4/27/2015 15:28:57 | 34.12 | 33.62 | 1,125 | 0.28 | 0.35 | 61.5 |
| 4/27/2015 15:28:58 | 34.45 | 33.95 | 1,087 | 0.18 | 0.38 | 59.5 |
| 4/27/2015 15:28:59 | 34.78 | 34.28 | 787 | 0.29 | 0.33 | 43.0 |
| 4/27/2015 15:28:59 | 35.11 | 34.61 | 787 | 0.29 | 0.33 | 43.0 |
| 4/27/2015 15:28:59 | 35.43 | 34.93 | 724 | 0.23 | 0.33 | 39.6 |
| 4/27/2015 15:29:00 | 35.76 | 35.26 | 712 | 0.28 | 0.31 | 38.9 |
| 4/27/2015 15:29:00 | 36.09 | 35.59 | 712 | 0.28 | 0.31 | 38.9 |
| 4/27/2015 15:29:00 | 36.42 | 35.92 | 755 | 0.26 | 0.34 | 41.3 |
| 4/27/2015 15:29:01 | 36.75 | 36.25 | 852 | 0.26 | 0.39 | 46.6 |
| 4/27/2015 15:29:11 | 37.07 | 36.57 | 56 | 3.33 | 0.36 | 3.1 |
| 4/27/2015 15:29:12 | 37.40 | 36.90 | 170 | 4.00 | 0.40 | 9.3 |
| 4/27/2015 15:29:14 | 37.73 | 37.23 | 212 | 2.82 | 0.34 | 11.6 |
| 4/27/2015 15:29:14 | 38.06 | 37.56 | 207 | 2.04 | 0.30 | 11.3 |
| 4/27/2015 15:29:15 | 38.39 | 37.89 | 352 | 1.95 | 0.28 | 19.3 |
| 4/27/2015 15:29:23 | 38.71 | 38.21 | 43 | 1.87 | 0.32 | 2.3 |
| 4/27/2015 15:29:23 | 39.04 | 38.54 | 43 | 1.87 | 0.32 | 2.3 |
| 4/27/2015 15:29:23 | 39.37 | 38.87 | 260 | 1.87 | 0.32 | 14.2 |
| 4/27/2015 15:29:24 | 39.70 | 39.20 | 481 | 1.87 | 0.32 | 26.3 |
| 4/27/2015 15:29:24 | 40.03 | 39.53 | 481 | 1.87 | 0.32 | 26.3 |
| 4/27/2015 15:29:24 | 40.35 | 39.85 | 704 | 1.87 | 0.34 | 38.5 |
| 4/27/2015 15:29:25 | 40.68 | 40.18 | 913 | 1.87 | 0.32 | 49.9 |
| 4/27/2015 15:29:25 | 41.01 | 40.51 | 913 | 1.87 | 0.32 | 49.9 |
| 4/27/2015 15:29:25 | 41.34 | 40.84 | 1,084 | 1.98 | 0.32 | 59.3 |
| 4/27/2015 15:29:26 | 41.67 | 41.17 | 1,084 | 1.98 | 0.32 | 59.3 |
| 4/27/2015 15:29:26 | 41.99 | 41.49 | 1,079 | 1.86 | 0.32 | 59.0 |
| 4/27/2015 15:29:26 | 42.32 | 41.82 | 1,072 | 1.86 | 0.32 | 58.6 |
| 4/27/2015 15:29:27 | 42.65 | 42.15 | 1,072 | 1.86 | 0.32 | 58.6 |
| 4/27/2015 15:29:27 | 42.98 | 42.48 | 1,060 | 1.86 | 0.32 | 58.0 |
| 4/27/2015 15:29:27 | 43.31 | 42.81 | 1,075 | 1.85 | 0.32 | 58.8 |
| 4/27/2015 15:29:28 | 43.64 | 43.14 | 1,075 | 1.85 | 0.32 | 58.8 |
| 4/27/2015 15:29:28 | 43.96 | 43.46 | 1,072 | 1.83 | 0.32 | 58.6 |
| 4/27/2015 15:29:28 | 44.29 | 43.79 | 1,078 | 1.84 | 0.32 | 59.0 |
| 4/27/2015 15:29:29 | 44.62 | 44.12 | 1,078 | 1.84 | 0.32 | 59.0 |
| 4/27/2015 15:29:29 | 44.95 | 44.45 | 1,078 | 1.83 | 0.32 | 59.0 |
| 4/27/2015 15:29:29 | 45.28 | 44.78 | 1,078 | 1.83 | 0.32 | 59.0 |
| 4/27/2015 15:29:29 | 45.60 | 45.10 | 1,081 | 1.81 | 0.32 | 59.1 |
| 4/27/2015 15:29:30 | 45.93 | 45.43 | 1,075 | 1.81 | 0.32 | 58.8 |
| 4/27/2015 15:29:30 | 46.26 | 45.76 | 1,075 | 1.81 | 0.32 | 58.8 |
| 4/27/2015 15:29:30 | 46.59 | 46.09 | 1,075 | 1.81 | 0.32 | 58.8 |
| 4/27/2015 15:29:31 | 46.92 | 46.42 | 1,072 | 1.81 | 0.32 | 58.6 |
| 4/27/2015 15:29:31 | 47.24 | 46.74 | 1,072 | 1.81 | 0.32 | 58.6 |
| 4/27/2015 15:29:31 | 47.57 | 47.07 | 1,081 | 2.10 | 0.34 | 59.1 |
| 4/27/2015 15:29:32 | 47.90 | 47.40 | 1,047 | 4.91 | 0.37 | 57.2 |
| 4/27/2015 15:29:33 | 48.23 | 47.73 | 947 | 5.97 | 0.39 | 51.8 |
| 4/27/2015 15:29:38 | 48.56 | 48.06 | 6 | 2.61 | 0.38 | 0.3 |
| 4/27/2015 15:29:39 | 48.88 | 48.38 | 145 | 3.88 | 0.38 | 7.9 |
| 4/27/2015 15:29:39 | 49.21 | 48.71 | 230 | 4.82 | 0.37 | 12.6 |
| 4/27/2015 15:29:40 | 49.54 | 49.04 | 393 | 3.29 | 0.39 | 21.5 |
| 4/27/2015 15:29:45 | 49.87 | 49.37 | 46 | 2.69 | 0.38 | 2.5 |
| 4/27/2015 15:29:46 | 50.20 | 49.70 | 193 | 3.50 | 0.38 | 10.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:29:47 | 50.53 | 50.03 | 359 | 3.13 | 0.37 | 19.6 |
| 4/27/2015 | 15:29:51 | 50.85 | 50.35 | 40 | 3.18 | 0.36 | 2.2 |
| 4/27/2015 | 15:29:51 | 51.18 | 50.68 | 187 | 1.92 | 0.36 | 10.2 |
| 4/27/2015 | 15:29:52 | 51.51 | 51.01 | 327 | 2.25 | 0.35 | 17.9 |
| 4/27/2015 | 15:29:52 | 51.84 | 51.34 | 430 | 2.66 | 0.37 | 23.5 |
| 4/27/2015 | 15:29:53 | 52.17 | 51.67 | 539 | 3.77 | 0.37 | 29.5 |
| 4/27/2015 | 15:29:54 | 52.49 | 51.99 | 610 | 3.77 | 0.36 | 33.4 |
| 4/27/2015 | 15:29:54 | 52.82 | 52.32 | 580 | 2.78 | 0.36 | 31.7 |
| 4/27/2015 | 15:29:55 | 53.15 | 52.65 | 573 | 2.25 | 0.35 | 31.3 |
| 4/27/2015 | 15:29:55 | 53.48 | 52.98 | 610 | 2.17 | 0.35 | 33.3 |
| 4/27/2015 | 15:29:56 | 53.81 | 53.31 | 651 | 2.02 | 0.34 | 35.6 |
| 4/27/2015 | 15:29:56 | 54.13 | 53.63 | 683 | 2.10 | 0.36 | 37.3 |
| 4/27/2015 | 15:29:57 | 54.46 | 53.96 | 722 | 1.99 | 0.35 | 39.5 |
| 4/27/2015 | 15:29:57 | 54.79 | 54.29 | 753 | 1.95 | 0.35 | 41.2 |
| 4/27/2015 | 15:29:58 | 55.12 | 54.62 | 767 | 2.00 | 0.35 | 41.9 |
| 4/27/2015 | 15:30:00 | 55.45 | 54.95 | 324 | 2.04 | 0.34 | 17.7 |
| 4/27/2015 | 15:30:00 | 55.54 | 55.04 | 324 | 2.04 | 0.34 | 17.7 |

## I59 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/27/2015 15:26:53

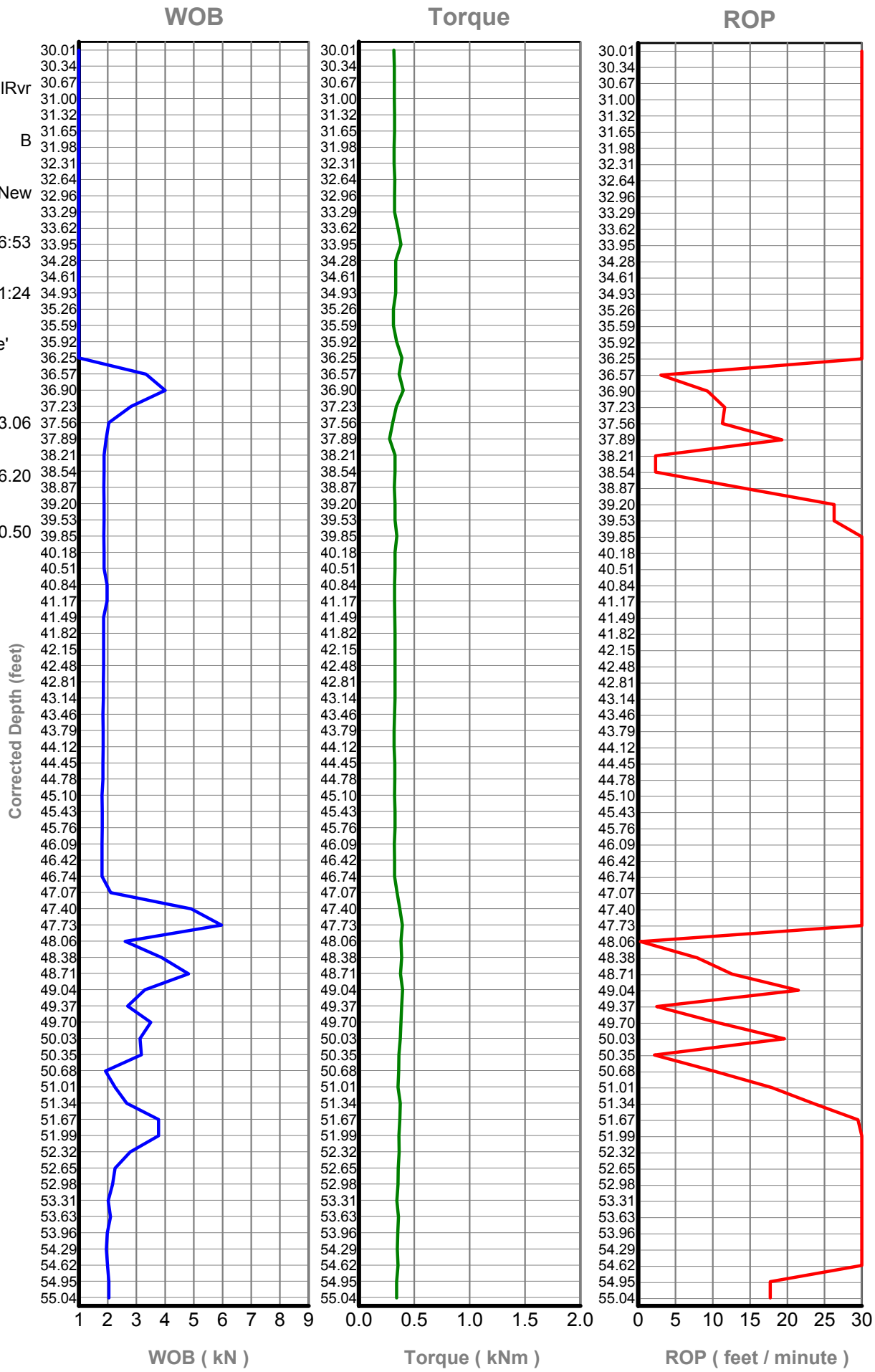
**End Date:**
4/27/2015 15:31:24

**Operator Note:**
'0.5 0.5 b Auto Complete'

**Northing:**
364,743.06

**Easting:**
248,496.20

**Tide (feet):**
0.50



## Hole: I6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:38:07 | 34.45 | 30.25 | 1,072 | 1.62 | 0.14 | 58.6 |
| 4/29/2015 0:38:08 | 34.78 | 30.58 | 1,067 | 1.63 | 0.14 | 58.3 |
| 4/29/2015 0:38:08 | 35.11 | 30.91 | 1,067 | 1.63 | 0.14 | 58.3 |
| 4/29/2015 0:38:08 | 35.43 | 31.23 | 1,070 | 1.62 | 0.14 | 58.5 |
| 4/29/2015 0:38:09 | 35.76 | 31.56 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/29/2015 0:38:10 | 36.09 | 31.89 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/29/2015 0:38:10 | 36.42 | 32.22 | 1,067 | 1.60 | 0.14 | 58.3 |
| 4/29/2015 0:38:10 | 36.75 | 32.55 | 1,064 | 1.61 | 0.14 | 58.2 |
| 4/29/2015 0:38:11 | 37.07 | 32.87 | 1,064 | 1.61 | 0.14 | 58.2 |
| 4/29/2015 0:38:11 | 37.40 | 33.20 | 1,067 | 1.62 | 0.14 | 58.3 |
| 4/29/2015 0:38:11 | 37.73 | 33.53 | 1,057 | 1.62 | 0.14 | 57.8 |
| 4/29/2015 0:38:12 | 38.06 | 33.86 | 1,057 | 1.62 | 0.14 | 57.8 |
| 4/29/2015 0:38:12 | 38.39 | 34.19 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 0:38:12 | 38.71 | 34.51 | 1,070 | 1.63 | 0.14 | 58.5 |
| 4/29/2015 0:38:12 | 39.04 | 34.84 | 1,067 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 0:38:13 | 39.37 | 35.17 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:13 | 39.70 | 35.50 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:13 | 40.03 | 35.83 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:14 | 40.35 | 36.15 | 1,067 | 1.62 | 0.14 | 58.3 |
| 4/29/2015 0:38:14 | 40.68 | 36.48 | 1,067 | 1.62 | 0.14 | 58.3 |
| 4/29/2015 0:38:14 | 41.01 | 36.81 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:15 | 41.34 | 37.14 | 1,067 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 0:38:15 | 41.67 | 37.47 | 1,067 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 0:38:15 | 41.99 | 37.79 | 1,049 | 1.61 | 0.14 | 57.4 |
| 4/29/2015 0:38:16 | 42.32 | 38.12 | 1,049 | 1.62 | 0.14 | 57.4 |
| 4/29/2015 0:38:16 | 42.65 | 38.45 | 1,049 | 1.62 | 0.14 | 57.4 |
| 4/29/2015 0:38:16 | 42.98 | 38.78 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:17 | 43.31 | 39.11 | 1,061 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:17 | 43.64 | 39.44 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/29/2015 0:38:17 | 43.96 | 39.76 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 0:38:18 | 44.29 | 40.09 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 0:38:18 | 44.62 | 40.42 | 1,052 | 1.54 | 0.14 | 57.5 |
| 4/29/2015 0:38:18 | 44.95 | 40.75 | 1,066 | 1.61 | 0.14 | 58.3 |
| 4/29/2015 0:38:19 | 45.28 | 41.08 | 1,066 | 1.61 | 0.14 | 58.3 |
| 4/29/2015 0:38:19 | 45.60 | 41.40 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 0:38:20 | 45.93 | 41.73 | 1,053 | 1.62 | 0.14 | 57.6 |
| 4/29/2015 0:38:20 | 46.26 | 42.06 | 1,053 | 1.62 | 0.14 | 57.6 |
| 4/29/2015 0:38:20 | 46.59 | 42.39 | 1,062 | 1.62 | 0.14 | 58.0 |
| 4/29/2015 0:38:21 | 46.92 | 42.72 | 1,056 | 1.63 | 0.14 | 57.7 |
| 4/29/2015 0:38:21 | 47.24 | 43.04 | 1,056 | 1.63 | 0.14 | 57.7 |
| 4/29/2015 0:38:21 | 47.57 | 43.37 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 0:38:22 | 47.90 | 43.70 | 1,049 | 1.63 | 0.14 | 57.4 |
| 4/29/2015 0:38:22 | 48.23 | 44.03 | 1,049 | 1.63 | 0.14 | 57.4 |
| 4/29/2015 0:38:22 | 48.56 | 44.36 | 1,067 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 0:38:23 | 48.88 | 44.68 | 1,055 | 1.63 | 0.14 | 57.7 |
| 4/29/2015 0:38:23 | 49.21 | 45.01 | 1,055 | 1.63 | 0.14 | 57.7 |
| 4/29/2015 0:38:23 | 49.54 | 45.34 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/29/2015 0:38:24 | 49.87 | 45.67 | 1,052 | 1.64 | 0.14 | 57.5 |
| 4/29/2015 0:38:24 | 50.20 | 46.00 | 1,049 | 1.62 | 0.14 | 57.4 |
| 4/29/2015 0:38:24 | 50.53 | 46.33 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 0:38:25 | 50.85 | 46.65 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 0:38:25 | 51.18 | 46.98 | 1,055 | 1.47 | 0.14 | 57.7 |
| 4/29/2015 0:38:33 | 51.51 | 47.31 | 0 | 1.74 | 1.24 | 0.0 |
| 4/29/2015 0:38:37 | 51.84 | 47.64 | 111 | 1.74 | 1.24 | 6.1 |
| 4/29/2015 0:38:42 | 52.17 | 47.97 | 37 | 1.90 | 1.23 | 2.0 |
| 4/29/2015 0:38:47 | 52.49 | 48.29 | 47 | 1.74 | 1.43 | 2.6 |
| 4/29/2015 0:38:48 | 52.82 | 48.62 | 225 | 1.64 | 1.27 | 12.3 |
| 4/29/2015 0:38:49 | 53.15 | 48.95 | 291 | 1.75 | 1.31 | 15.9 |
| 4/29/2015 0:38:50 | 53.48 | 49.28 | 385 | 1.74 | 1.26 | 21.1 |
| 4/29/2015 0:38:51 | 53.81 | 49.61 | 396 | 1.73 | 1.16 | 21.7 |
| 4/29/2015 0:38:51 | 54.13 | 49.93 | 483 | 1.68 | 1.09 | 26.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:38:52 | 54.46 | 50.26 | 537 | 1.85 | 1.20 | 29.4 |
| 4/29/2015 | 0:38:57 | 54.79 | 50.59 | 91 | 1.59 | 1.29 | 5.0 |
| 4/29/2015 | 0:38:59 | 55.12 | 50.92 | 249 | 1.60 | 1.42 | 13.6 |
| 4/29/2015 | 0:39:00 | 55.45 | 51.25 | 294 | 1.66 | 1.13 | 16.1 |
| 4/29/2015 | 0:39:00 | 55.77 | 51.57 | 385 | 1.70 | 1.01 | 21.0 |
| 4/29/2015 | 0:39:01 | 56.10 | 51.90 | 488 | 1.63 | 1.06 | 26.7 |
| 4/29/2015 | 0:39:01 | 56.43 | 52.23 | 488 | 1.63 | 1.06 | 26.7 |
| 4/29/2015 | 0:39:01 | 56.76 | 52.56 | 617 | 1.68 | 1.11 | 33.7 |
| 4/29/2015 | 0:39:02 | 57.09 | 52.89 | 743 | 1.68 | 1.31 | 40.6 |
| 4/29/2015 | 0:39:03 | 57.41 | 53.21 | 702 | 1.65 | 1.29 | 38.4 |
| 4/29/2015 | 0:39:20 | 57.74 | 53.54 | 70 | 1.71 | 1.17 | 3.8 |
| 4/29/2015 | 0:39:21 | 58.07 | 53.87 | 181 | 1.68 | 1.12 | 9.9 |
| 4/29/2015 | 0:39:21 | 58.40 | 54.20 | 316 | 1.69 | 1.08 | 17.3 |
| 4/29/2015 | 0:39:22 | 58.73 | 54.53 | 488 | 1.74 | 1.15 | 26.7 |
| 4/29/2015 | 0:39:23 | 59.06 | 54.86 | 542 | 1.71 | 1.40 | 29.7 |
| 4/29/2015 | 0:39:24 | 59.38 | 55.18 | 438 | 1.70 | 1.07 | 24.0 |
| 4/29/2015 | 0:39:24 | 59.54 | 55.34 | 438 | 1.70 | 1.07 | 24.0 |

## I6 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:36:38

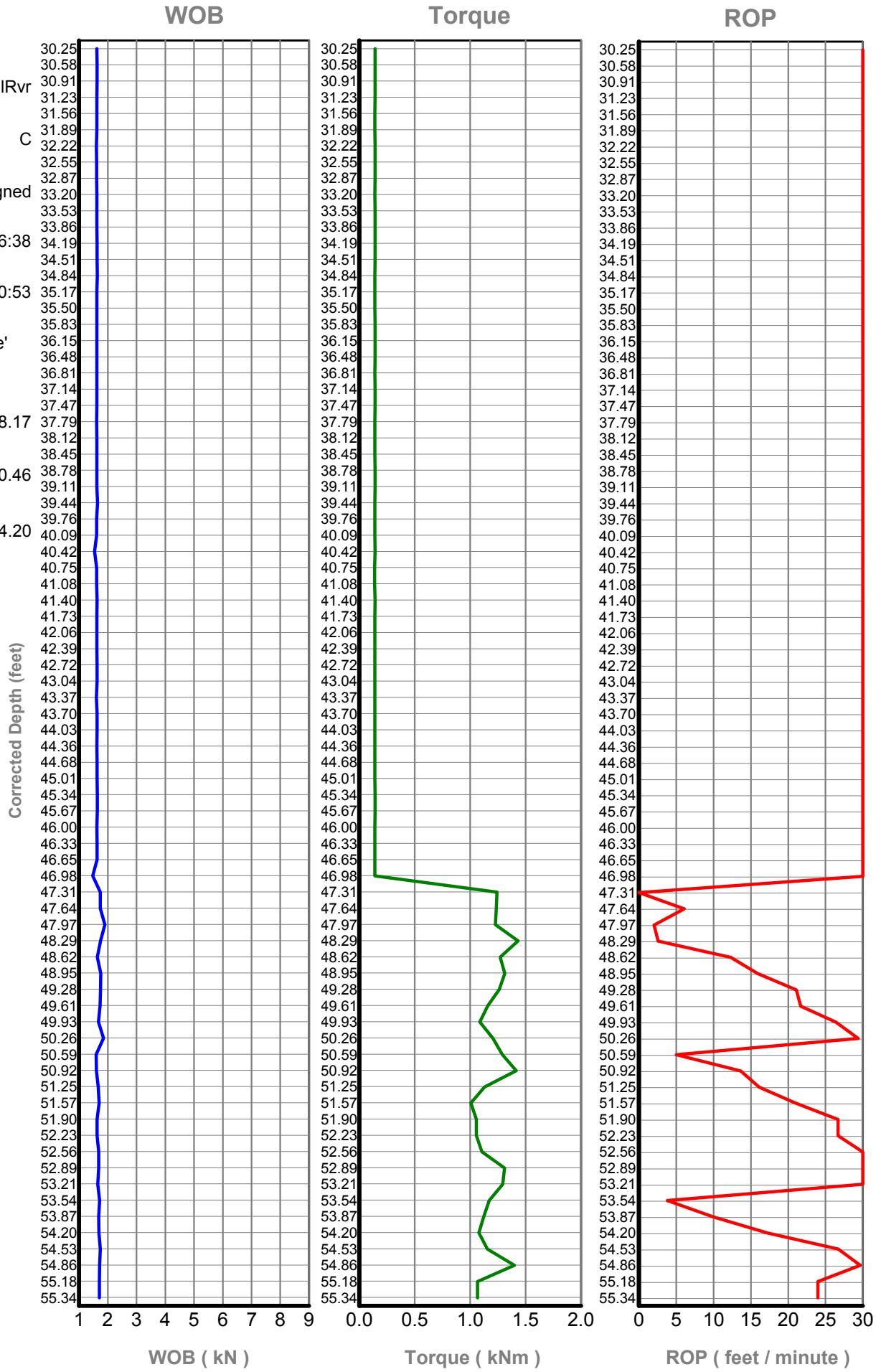
**End Date:**
4/29/2015 0:40:53

**Operator Note:**
'4.2 4.4 c Auto Complete'

**Northing:**
364,588.17

**Easting:**
247,830.46

**Tide (feet):**
4.20



## Hole: I60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:29:29 | 30.51 | 30.01 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 15:29:29 | 30.84 | 30.34 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:29:30 | 31.17 | 30.67 | 730 | 1.06 | 0.20 | 39.9 |
| 4/27/2015 15:29:30 | 31.50 | 31.00 | 730 | 1.07 | 0.19 | 39.9 |
| 4/27/2015 15:29:31 | 31.82 | 31.32 | 727 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 15:29:31 | 32.15 | 31.65 | 719 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 15:29:32 | 32.48 | 31.98 | 730 | 1.07 | 0.20 | 39.9 |
| 4/27/2015 15:29:32 | 32.81 | 32.31 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 15:29:33 | 33.14 | 32.64 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 15:29:33 | 33.46 | 32.96 | 723 | 1.08 | 0.20 | 39.5 |
| 4/27/2015 15:29:34 | 33.79 | 33.29 | 726 | 1.07 | 0.20 | 39.7 |
| 4/27/2015 15:29:34 | 34.12 | 33.62 | 724 | 1.07 | 0.20 | 39.6 |
| 4/27/2015 15:29:35 | 34.45 | 33.95 | 724 | 1.07 | 0.20 | 39.6 |
| 4/27/2015 15:29:35 | 34.78 | 34.28 | 713 | 1.07 | 0.20 | 39.0 |
| 4/27/2015 15:29:35 | 35.11 | 34.61 | 713 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 15:29:36 | 35.43 | 34.93 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:29:36 | 35.76 | 35.26 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:29:37 | 36.09 | 35.59 | 722 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 15:29:37 | 36.42 | 35.92 | 724 | 1.07 | 0.20 | 39.6 |
| 4/27/2015 15:29:38 | 36.75 | 36.25 | 724 | 1.08 | 0.20 | 39.6 |
| 4/27/2015 15:29:38 | 37.07 | 36.57 | 730 | 1.06 | 0.20 | 39.9 |
| 4/27/2015 15:29:39 | 37.40 | 36.90 | 722 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 15:29:40 | 37.73 | 37.23 | 722 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:29:40 | 38.06 | 37.56 | 729 | 1.08 | 0.20 | 39.9 |
| 4/27/2015 15:29:41 | 38.39 | 37.89 | 741 | 1.06 | 0.20 | 40.5 |
| 4/27/2015 15:29:41 | 38.71 | 38.21 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 15:29:42 | 39.04 | 38.54 | 726 | 1.07 | 0.20 | 39.7 |
| 4/27/2015 15:29:42 | 39.37 | 38.87 | 731 | 1.08 | 0.20 | 39.9 |
| 4/27/2015 15:29:43 | 39.70 | 39.20 | 731 | 1.08 | 0.20 | 39.9 |
| 4/27/2015 15:29:43 | 40.03 | 39.53 | 735 | 1.08 | 0.22 | 40.2 |
| 4/27/2015 15:29:43 | 40.35 | 39.85 | 713 | 1.03 | 0.20 | 39.0 |
| 4/27/2015 15:29:44 | 40.68 | 40.18 | 713 | 1.08 | 0.20 | 39.0 |
| 4/27/2015 15:29:44 | 41.01 | 40.51 | 727 | 1.06 | 0.20 | 39.8 |
| 4/27/2015 15:29:45 | 41.34 | 40.84 | 733 | 1.07 | 0.20 | 40.1 |
| 4/27/2015 15:29:45 | 41.67 | 41.17 | 730 | 1.07 | 0.20 | 39.9 |
| 4/27/2015 15:29:46 | 41.99 | 41.49 | 718 | 1.07 | 0.20 | 39.3 |
| 4/27/2015 15:29:46 | 42.32 | 41.82 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 15:29:47 | 42.65 | 42.15 | 726 | 1.07 | 0.20 | 39.7 |
| 4/27/2015 15:29:47 | 42.98 | 42.48 | 730 | 1.07 | 0.20 | 39.9 |
| 4/27/2015 15:29:48 | 43.31 | 42.81 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 15:29:48 | 43.64 | 43.14 | 728 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 15:29:49 | 43.96 | 43.46 | 725 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 15:29:49 | 44.29 | 43.79 | 723 | 1.06 | 0.20 | 39.5 |
| 4/27/2015 15:29:50 | 44.62 | 44.12 | 718 | 1.07 | 0.20 | 39.3 |
| 4/27/2015 15:29:51 | 44.95 | 44.45 | 723 | 1.07 | 0.20 | 39.5 |
| 4/27/2015 15:29:51 | 45.28 | 44.78 | 720 | 1.07 | 0.20 | 39.4 |
| 4/27/2015 15:29:52 | 45.60 | 45.10 | 720 | 1.07 | 0.20 | 39.4 |
| 4/27/2015 15:29:52 | 45.93 | 45.43 | 720 | 1.07 | 0.20 | 39.4 |
| 4/27/2015 15:29:52 | 46.26 | 45.76 | 720 | 1.05 | 0.19 | 39.4 |
| 4/27/2015 15:29:53 | 46.59 | 46.09 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:30:05 | 46.92 | 46.42 | 9 | 1.09 | 0.95 | 0.5 |
| 4/27/2015 15:30:08 | 47.24 | 46.74 | 197 | 1.12 | 1.05 | 10.8 |
| 4/27/2015 15:30:09 | 47.57 | 47.07 | 202 | 0.48 | 0.88 | 11.1 |
| 4/27/2015 15:30:11 | 47.90 | 47.40 | 214 | 1.11 | 0.86 | 11.7 |
| 4/27/2015 15:30:12 | 48.23 | 47.73 | 300 | 1.12 | 0.89 | 16.4 |
| 4/27/2015 15:30:13 | 48.56 | 48.06 | 339 | 1.12 | 0.97 | 18.6 |
| 4/27/2015 15:30:14 | 48.88 | 48.38 | 389 | 1.13 | 0.90 | 21.3 |
| 4/27/2015 15:30:15 | 49.21 | 48.71 | 247 | 1.11 | 0.91 | 13.5 |
| 4/27/2015 15:30:16 | 49.54 | 49.04 | 290 | 1.09 | 0.83 | 15.8 |
| 4/27/2015 15:30:17 | 49.87 | 49.37 | 347 | 1.11 | 0.85 | 19.0 |
| 4/27/2015 15:30:26 | 50.20 | 49.70 | 1 | 0.97 | 0.77 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:30:28 | 50.53 | 50.03 | 75 | 1.07 | 1.39 | 4.1 |
| 4/27/2015 | 15:30:29 | 50.85 | 50.35 | 174 | 1.00 | 1.16 | 9.5 |
| 4/27/2015 | 15:30:30 | 51.18 | 50.68 | 262 | 1.05 | 1.00 | 14.3 |
| 4/27/2015 | 15:30:32 | 51.51 | 51.01 | 331 | 1.24 | 0.65 | 18.1 |
| 4/27/2015 | 15:30:34 | 51.84 | 51.34 | 212 | 0.95 | 0.97 | 11.6 |
| 4/27/2015 | 15:30:35 | 52.17 | 51.67 | 210 | 1.00 | 0.87 | 11.5 |
| 4/27/2015 | 15:30:36 | 52.49 | 51.99 | 225 | 1.09 | 0.82 | 12.3 |
| 4/27/2015 | 15:30:37 | 52.82 | 52.32 | 228 | 1.09 | 1.05 | 12.5 |
| 4/27/2015 | 15:30:39 | 53.15 | 52.65 | 222 | 1.11 | 1.57 | 12.1 |
| 4/27/2015 | 15:30:43 | 53.48 | 52.98 | 112 | 0.36 | 1.02 | 6.1 |
| 4/27/2015 | 15:30:45 | 53.81 | 53.31 | 214 | 1.08 | 1.15 | 11.7 |
| 4/27/2015 | 15:30:47 | 54.13 | 53.63 | 192 | 1.11 | 1.19 | 10.5 |
| 4/27/2015 | 15:30:49 | 54.46 | 53.96 | 210 | 1.05 | 1.08 | 11.5 |
| 4/27/2015 | 15:30:50 | 54.79 | 54.29 | 184 | 1.06 | 0.97 | 10.0 |
| 4/27/2015 | 15:30:53 | 55.12 | 54.62 | 174 | 1.16 | 1.20 | 9.5 |
| 4/27/2015 | 15:30:56 | 55.45 | 54.95 | 104 | 1.10 | 1.26 | 5.7 |
| 4/27/2015 | 15:30:57 | 55.57 | 55.07 | 107 | 0.54 | 1.23 | 5.8 |

## I60 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/27/2015 15:27:24

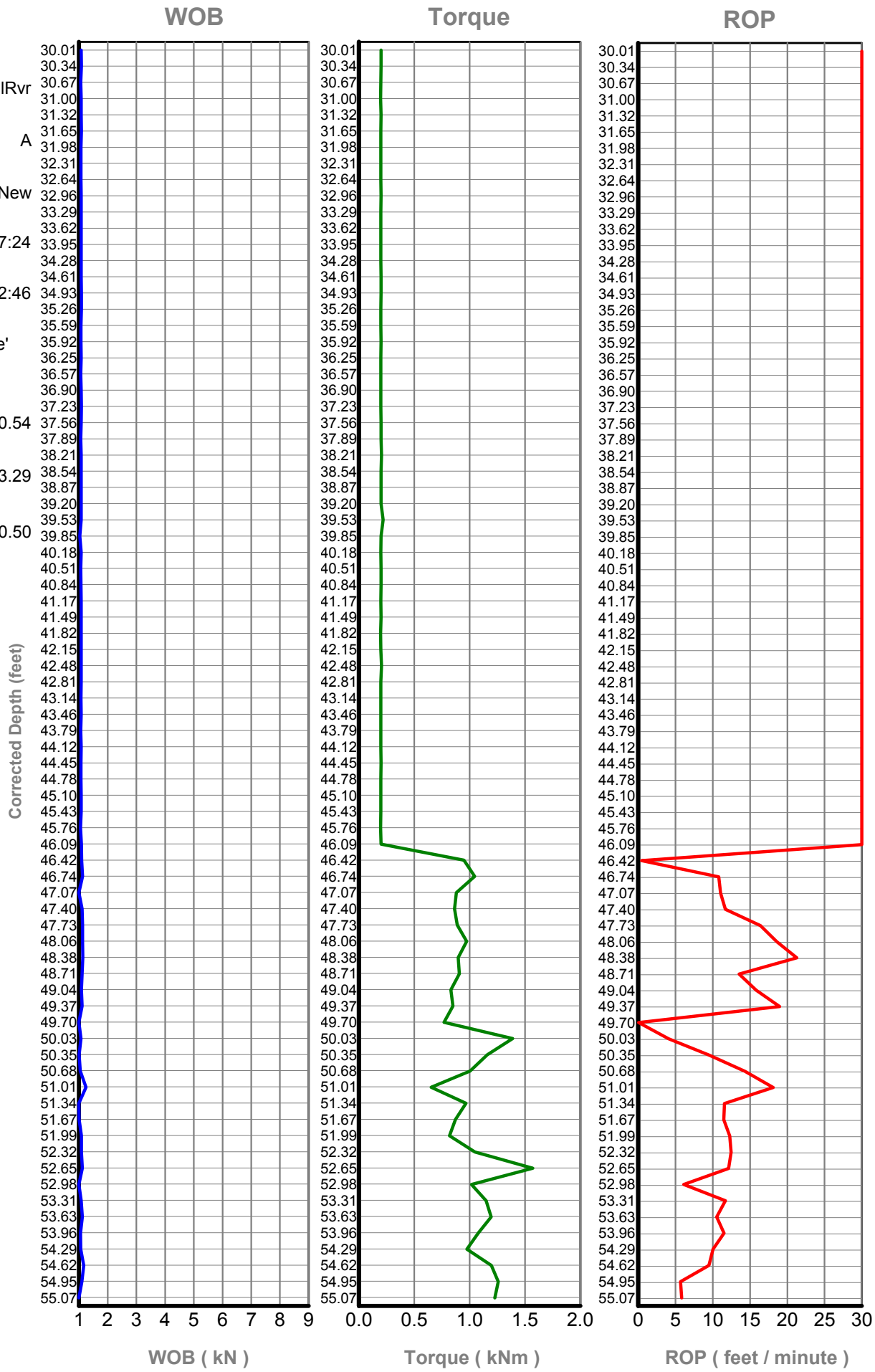
**End Date:**
4/27/2015 15:32:46

**Operator Note:**
'0.5 0.6 a Auto Complete'

**Northing:**
364,790.54

**Easting:**
248,553.29

**Tide (feet):**
0.50



## Hole: I61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:44:17 | 33.46 | 30.26 | 793 | 1.07 | 0.18 | 43.4 |
| 4/29/2015 1:44:17 | 33.79 | 30.59 | 806 | 1.08 | 0.18 | 44.1 |
| 4/29/2015 1:44:18 | 34.12 | 30.92 | 801 | 1.07 | 0.18 | 43.8 |
| 4/29/2015 1:44:19 | 34.45 | 31.25 | 807 | 1.06 | 0.18 | 44.1 |
| 4/29/2015 1:44:19 | 34.78 | 31.58 | 807 | 1.06 | 0.18 | 44.1 |
| 4/29/2015 1:44:19 | 35.11 | 31.91 | 812 | 1.04 | 0.18 | 44.4 |
| 4/29/2015 1:44:20 | 35.43 | 32.23 | 815 | 1.05 | 0.18 | 44.6 |
| 4/29/2015 1:44:20 | 35.76 | 32.56 | 815 | 1.05 | 0.18 | 44.6 |
| 4/29/2015 1:44:21 | 36.09 | 32.89 | 815 | 1.07 | 0.18 | 44.6 |
| 4/29/2015 1:44:21 | 36.42 | 33.22 | 810 | 1.07 | 0.18 | 44.3 |
| 4/29/2015 1:44:22 | 36.75 | 33.55 | 810 | 1.07 | 0.18 | 44.3 |
| 4/29/2015 1:44:22 | 37.07 | 33.87 | 821 | 1.07 | 0.18 | 44.9 |
| 4/29/2015 1:44:22 | 37.40 | 34.20 | 818 | 1.06 | 0.18 | 44.7 |
| 4/29/2015 1:44:23 | 37.73 | 34.53 | 821 | 1.07 | 0.18 | 44.9 |
| 4/29/2015 1:44:23 | 38.06 | 34.86 | 814 | 1.06 | 0.18 | 44.5 |
| 4/29/2015 1:44:24 | 38.39 | 35.19 | 824 | 1.06 | 0.18 | 45.1 |
| 4/29/2015 1:44:24 | 38.71 | 35.51 | 824 | 1.06 | 0.18 | 45.1 |
| 4/29/2015 1:44:24 | 39.04 | 35.84 | 819 | 1.07 | 0.18 | 44.8 |
| 4/29/2015 1:44:25 | 39.37 | 36.17 | 819 | 1.05 | 0.18 | 44.8 |
| 4/29/2015 1:44:25 | 39.70 | 36.50 | 813 | 1.05 | 0.18 | 44.5 |
| 4/29/2015 1:44:26 | 40.03 | 36.83 | 826 | 1.05 | 0.18 | 45.2 |
| 4/29/2015 1:44:26 | 40.35 | 37.15 | 808 | 1.07 | 0.18 | 44.2 |
| 4/29/2015 1:44:27 | 40.68 | 37.48 | 813 | 1.07 | 0.18 | 44.5 |
| 4/29/2015 1:44:27 | 41.01 | 37.81 | 813 | 1.07 | 0.18 | 44.5 |
| 4/29/2015 1:44:27 | 41.34 | 38.14 | 813 | 1.05 | 0.18 | 44.5 |
| 4/29/2015 1:44:28 | 41.67 | 38.47 | 818 | 1.05 | 0.18 | 44.7 |
| 4/29/2015 1:44:28 | 41.99 | 38.79 | 810 | 1.06 | 0.18 | 44.3 |
| 4/29/2015 1:44:29 | 42.32 | 39.12 | 823 | 1.06 | 0.18 | 45.0 |
| 4/29/2015 1:44:30 | 42.65 | 39.45 | 808 | 1.05 | 0.18 | 44.2 |
| 4/29/2015 1:44:30 | 42.98 | 39.78 | 808 | 1.05 | 0.18 | 44.2 |
| 4/29/2015 1:44:30 | 43.31 | 40.11 | 813 | 1.07 | 0.18 | 44.4 |
| 4/29/2015 1:44:31 | 43.64 | 40.44 | 810 | 1.06 | 0.18 | 44.3 |
| 4/29/2015 1:44:31 | 43.96 | 40.76 | 810 | 1.05 | 0.18 | 44.3 |
| 4/29/2015 1:44:32 | 44.29 | 41.09 | 805 | 1.06 | 0.18 | 44.0 |
| 4/29/2015 1:44:32 | 44.62 | 41.42 | 814 | 1.06 | 0.18 | 44.5 |
| 4/29/2015 1:44:33 | 44.95 | 41.75 | 809 | 1.07 | 0.18 | 44.3 |
| 4/29/2015 1:44:33 | 45.28 | 42.08 | 809 | 1.07 | 0.18 | 44.3 |
| 4/29/2015 1:44:33 | 45.60 | 42.40 | 809 | 1.04 | 0.18 | 44.3 |
| 4/29/2015 1:44:34 | 45.93 | 42.73 | 802 | 1.06 | 0.18 | 43.9 |
| 4/29/2015 1:44:34 | 46.26 | 43.06 | 807 | 1.07 | 0.19 | 44.1 |
| 4/29/2015 1:44:35 | 46.59 | 43.39 | 802 | 1.05 | 0.18 | 43.9 |
| 4/29/2015 1:44:35 | 46.92 | 43.72 | 799 | 1.07 | 0.18 | 43.7 |
| 4/29/2015 1:44:36 | 47.24 | 44.04 | 799 | 1.07 | 0.18 | 43.7 |
| 4/29/2015 1:44:36 | 47.57 | 44.37 | 799 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 1:44:36 | 47.90 | 44.70 | 811 | 1.04 | 0.18 | 44.4 |
| 4/29/2015 1:44:37 | 48.23 | 45.03 | 804 | 1.10 | 0.17 | 43.9 |
| 4/29/2015 1:44:49 | 48.56 | 45.36 | 0 | 1.83 | 1.42 | 0.0 |
| 4/29/2015 1:44:56 | 48.88 | 45.68 | 6 | 1.22 | 1.06 | 0.3 |
| 4/29/2015 1:44:57 | 49.21 | 46.01 | 147 | 1.19 | 1.23 | 8.0 |
| 4/29/2015 1:45:02 | 49.54 | 46.34 | 59 | 1.70 | 1.51 | 3.2 |
| 4/29/2015 1:45:03 | 49.87 | 46.67 | 218 | 1.51 | 1.24 | 11.9 |
| 4/29/2015 1:45:04 | 50.20 | 47.00 | 346 | 1.24 | 1.40 | 18.9 |
| 4/29/2015 1:45:27 | 50.53 | 47.33 | 101 | 1.83 | 1.92 | 5.5 |
| 4/29/2015 1:45:28 | 50.85 | 47.65 | 237 | 0.60 | 1.31 | 12.9 |
| 4/29/2015 1:45:37 | 51.18 | 47.98 | 61 | 0.99 | 1.04 | 3.4 |
| 4/29/2015 1:45:38 | 51.51 | 48.31 | 183 | 1.03 | 0.96 | 10.0 |
| 4/29/2015 1:45:39 | 51.84 | 48.64 | 291 | 0.97 | 1.10 | 15.9 |
| 4/29/2015 1:45:40 | 52.17 | 48.97 | 356 | 0.62 | 0.87 | 19.5 |
| 4/29/2015 1:46:10 | 52.49 | 49.29 | 64 | 1.07 | 1.10 | 3.5 |
| 4/29/2015 1:46:11 | 52.82 | 49.62 | 180 | 1.07 | 0.88 | 9.9 |
| 4/29/2015 1:46:13 | 53.15 | 49.95 | 301 | 1.06 | 0.82 | 16.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:46:14 | 53.48 | 50.28 | 303 | 1.07 | 0.88 | 16.6 |
| 4/29/2015 | 1:46:16 | 53.81 | 50.61 | 246 | 1.07 | 0.88 | 13.5 |
| 4/29/2015 | 1:46:18 | 54.13 | 50.93 | 200 | 1.08 | 1.01 | 10.9 |
| 4/29/2015 | 1:46:20 | 54.46 | 51.26 | 140 | 1.08 | 1.05 | 7.7 |
| 4/29/2015 | 1:46:26 | 54.79 | 51.59 | 52 | 1.06 | 0.97 | 2.9 |
| 4/29/2015 | 1:46:29 | 55.12 | 51.92 | 106 | 1.07 | 0.98 | 5.8 |
| 4/29/2015 | 1:46:33 | 55.45 | 52.25 | 92 | 1.07 | 0.99 | 5.1 |
| 4/29/2015 | 1:46:36 | 55.77 | 52.57 | 135 | 0.98 | 0.90 | 7.4 |
| 4/29/2015 | 1:46:37 | 56.10 | 52.90 | 202 | 0.95 | 0.80 | 11.0 |
| 4/29/2015 | 1:46:38 | 56.43 | 53.23 | 295 | 1.05 | 0.79 | 16.1 |
| 4/29/2015 | 1:46:39 | 56.76 | 53.56 | 341 | 1.07 | 0.82 | 18.7 |
| 4/29/2015 | 1:46:41 | 57.09 | 53.89 | 167 | 1.08 | 0.89 | 9.2 |
| 4/29/2015 | 1:46:43 | 57.41 | 54.21 | 118 | 1.01 | 0.88 | 6.5 |
| 4/29/2015 | 1:46:46 | 57.74 | 54.54 | 176 | 0.98 | 0.93 | 9.6 |
| 4/29/2015 | 1:46:49 | 58.07 | 54.87 | 134 | 1.00 | 1.03 | 7.3 |
| 4/29/2015 | 1:46:50 | 58.33 | 55.13 | 159 | 1.11 | 1.01 | 8.7 |

## I61 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:42:04

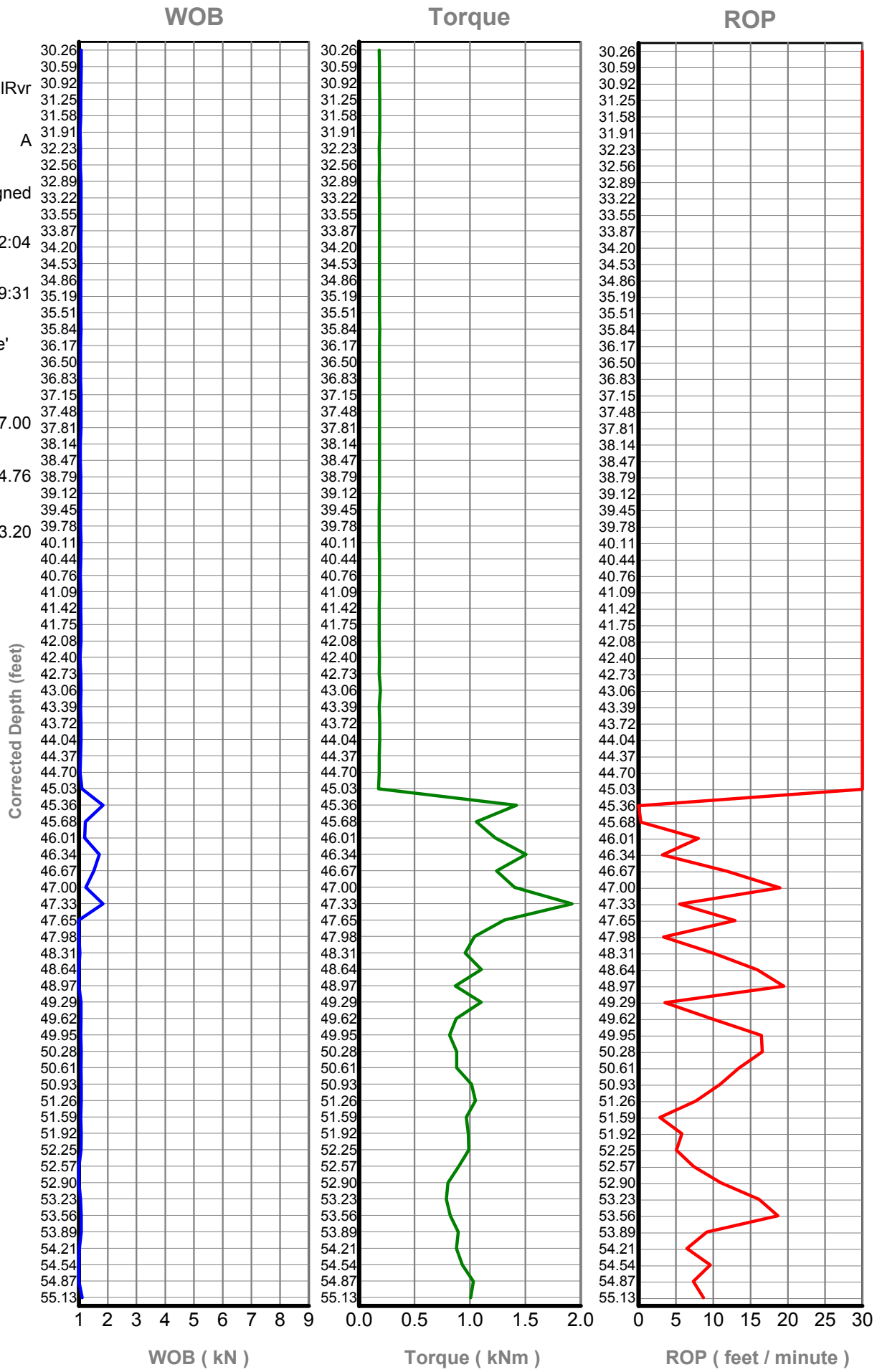
**End Date:**
4/29/2015 1:49:31

**Operator Note:**
'3.2 3.3 b Auto Complete'

**Northing:**
364,207.00

**Easting:**
247,954.76

**Tide (feet):**
3.20



## Hole: I62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:44:42 | 33.46 | 30.26 | 1,121 | 0.29 | 0.36 | 61.3 |
| 4/29/2015 1:44:43 | 33.79 | 30.59 | 1,135 | 0.29 | 0.36 | 62.1 |
| 4/29/2015 1:44:44 | 34.12 | 30.92 | 1,135 | 0.29 | 0.36 | 62.1 |
| 4/29/2015 1:44:44 | 34.45 | 31.25 | 1,144 | 0.28 | 0.38 | 62.6 |
| 4/29/2015 1:44:44 | 34.78 | 31.58 | 1,144 | 0.28 | 0.38 | 62.6 |
| 4/29/2015 1:44:44 | 35.11 | 31.91 | 1,166 | 0.28 | 0.37 | 63.7 |
| 4/29/2015 1:44:45 | 35.43 | 32.23 | 1,143 | 0.28 | 0.37 | 62.5 |
| 4/29/2015 1:44:45 | 35.76 | 32.56 | 1,143 | 0.28 | 0.37 | 62.5 |
| 4/29/2015 1:44:45 | 36.09 | 32.89 | 1,161 | 0.29 | 0.37 | 63.5 |
| 4/29/2015 1:44:46 | 36.42 | 33.22 | 1,161 | 0.29 | 0.37 | 63.5 |
| 4/29/2015 1:44:46 | 36.75 | 33.55 | 1,151 | 0.28 | 0.37 | 62.9 |
| 4/29/2015 1:44:46 | 37.07 | 33.87 | 1,138 | 0.28 | 0.37 | 62.2 |
| 4/29/2015 1:44:47 | 37.40 | 34.20 | 1,138 | 0.28 | 0.37 | 62.2 |
| 4/29/2015 1:44:47 | 37.73 | 34.53 | 1,145 | 0.28 | 0.37 | 62.6 |
| 4/29/2015 1:44:47 | 38.06 | 34.86 | 1,145 | 0.28 | 0.37 | 62.6 |
| 4/29/2015 1:44:47 | 38.39 | 35.19 | 1,156 | 0.28 | 0.36 | 63.2 |
| 4/29/2015 1:44:48 | 38.71 | 35.51 | 1,156 | 0.28 | 0.36 | 63.2 |
| 4/29/2015 1:44:48 | 39.04 | 35.84 | 1,150 | 0.29 | 0.37 | 62.9 |
| 4/29/2015 1:44:48 | 39.37 | 36.17 | 1,148 | 0.28 | 0.37 | 62.8 |
| 4/29/2015 1:44:49 | 39.70 | 36.50 | 1,148 | 0.28 | 0.37 | 62.8 |
| 4/29/2015 1:44:49 | 40.03 | 36.83 | 1,153 | 0.28 | 0.37 | 63.1 |
| 4/29/2015 1:44:49 | 40.35 | 37.15 | 1,153 | 0.28 | 0.37 | 63.1 |
| 4/29/2015 1:44:49 | 40.68 | 37.48 | 1,162 | 0.29 | 0.37 | 63.5 |
| 4/29/2015 1:44:50 | 41.01 | 37.81 | 1,156 | 0.08 | 0.36 | 63.2 |
| 4/29/2015 1:44:50 | 41.34 | 38.14 | 1,156 | 0.08 | 0.36 | 63.2 |
| 4/29/2015 1:44:50 | 41.67 | 38.47 | 1,150 | 0.30 | 0.37 | 62.9 |
| 4/29/2015 1:44:51 | 41.99 | 38.79 | 1,150 | 0.30 | 0.37 | 62.9 |
| 4/29/2015 1:44:51 | 42.32 | 39.12 | 1,160 | 0.29 | 0.37 | 63.4 |
| 4/29/2015 1:44:51 | 42.65 | 39.45 | 1,160 | 0.26 | 0.37 | 63.4 |
| 4/29/2015 1:44:52 | 42.98 | 39.78 | 1,160 | 0.26 | 0.37 | 63.4 |
| 4/29/2015 1:44:52 | 43.31 | 40.11 | 1,151 | 0.28 | 0.37 | 63.0 |
| 4/29/2015 1:44:52 | 43.64 | 40.44 | 1,151 | 0.28 | 0.37 | 63.0 |
| 4/29/2015 1:44:52 | 43.96 | 40.76 | 1,149 | 0.28 | 0.36 | 62.8 |
| 4/29/2015 1:44:53 | 44.29 | 41.09 | 1,161 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 1:44:53 | 44.62 | 41.42 | 1,161 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 1:44:54 | 44.95 | 41.75 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/29/2015 1:44:54 | 45.28 | 42.08 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/29/2015 1:44:54 | 45.60 | 42.40 | 1,153 | 0.28 | 0.36 | 63.1 |
| 4/29/2015 1:44:55 | 45.93 | 42.73 | 1,156 | 0.28 | 0.36 | 63.2 |
| 4/29/2015 1:44:55 | 46.26 | 43.06 | 1,156 | 0.28 | 0.36 | 63.2 |
| 4/29/2015 1:44:55 | 46.59 | 43.39 | 1,155 | 0.28 | 0.37 | 63.2 |
| 4/29/2015 1:44:56 | 46.92 | 43.72 | 1,155 | 0.28 | 0.37 | 63.2 |
| 4/29/2015 1:44:56 | 47.24 | 44.04 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 1:44:56 | 47.57 | 44.37 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 1:44:56 | 47.90 | 44.70 | 1,160 | 0.29 | 0.36 | 63.4 |
| 4/29/2015 1:44:57 | 48.23 | 45.03 | 1,160 | 0.26 | 0.39 | 63.4 |
| 4/29/2015 1:44:57 | 48.56 | 45.36 | 1,160 | 0.26 | 0.39 | 63.4 |
| 4/29/2015 1:45:02 | 48.88 | 45.68 | 87 | 4.15 | 0.46 | 4.8 |
| 4/29/2015 1:45:04 | 49.21 | 46.01 | 212 | 6.21 | 0.49 | 11.6 |
| 4/29/2015 1:45:05 | 49.54 | 46.34 | 221 | 3.26 | 0.43 | 12.1 |
| 4/29/2015 1:45:07 | 49.87 | 46.67 | 282 | 2.95 | 0.45 | 15.4 |
| 4/29/2015 1:45:11 | 50.20 | 47.00 | 90 | 3.25 | 0.45 | 4.9 |
| 4/29/2015 1:45:23 | 50.53 | 47.33 | 23 | 3.18 | 0.45 | 1.3 |
| 4/29/2015 1:45:26 | 50.85 | 47.65 | 127 | 3.01 | 0.46 | 7.0 |
| 4/29/2015 1:45:30 | 51.18 | 47.98 | 98 | 3.55 | 0.46 | 5.4 |
| 4/29/2015 1:45:34 | 51.51 | 48.31 | 83 | 3.58 | 0.46 | 4.5 |
| 4/29/2015 1:45:38 | 51.84 | 48.64 | 73 | 3.15 | 0.46 | 4.0 |
| 4/29/2015 1:45:44 | 52.17 | 48.97 | 60 | 3.21 | 0.46 | 3.3 |
| 4/29/2015 1:45:48 | 52.49 | 49.29 | 78 | 3.46 | 0.46 | 4.3 |
| 4/29/2015 1:45:52 | 52.82 | 49.62 | 84 | 2.61 | 0.46 | 4.6 |
| 4/29/2015 1:45:56 | 53.15 | 49.95 | 100 | 5.11 | 0.45 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:46:00 | 53.48 | 50.28 | 72 | 3.29 | 0.46 | 3.9 |
| 4/29/2015 | 1:46:06 | 53.81 | 50.61 | 61 | 3.33 | 0.46 | 3.3 |
| 4/29/2015 | 1:46:11 | 54.13 | 50.93 | 64 | 3.35 | 0.46 | 3.5 |
| 4/29/2015 | 1:46:16 | 54.46 | 51.26 | 69 | 3.35 | 0.46 | 3.8 |
| 4/29/2015 | 1:46:21 | 54.72 | 51.52 | 58 | 3.07 | 0.47 | 3.2 |

## I62 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:43:17

**End Date:**
4/29/2015 1:47:36

**Operator Note:**
'3.2 3.3b Auto Complete'

**Northing:**
364,254.47

**Easting:**
248,013.18

**Tide (feet):**
3.20



## Hole: I63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:43:59 | 33.46 | 30.26 | 1,081 | 1.63 | 0.14 | 59.1 |
| 4/29/2015 1:43:59 | 33.79 | 30.59 | 1,081 | 1.64 | 0.14 | 59.1 |
| 4/29/2015 1:44:00 | 34.12 | 30.92 | 1,081 | 1.61 | 0.14 | 59.1 |
| 4/29/2015 1:44:00 | 34.45 | 31.25 | 1,081 | 1.61 | 0.14 | 59.1 |
| 4/29/2015 1:44:00 | 34.78 | 31.58 | 1,075 | 1.62 | 0.14 | 58.8 |
| 4/29/2015 1:44:01 | 35.11 | 31.91 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:44:01 | 35.43 | 32.23 | 1,084 | 1.62 | 0.14 | 59.3 |
| 4/29/2015 1:44:01 | 35.76 | 32.56 | 1,078 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:44:02 | 36.09 | 32.89 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:44:03 | 36.42 | 33.22 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:44:03 | 36.75 | 33.55 | 1,078 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:44:03 | 37.07 | 33.87 | 1,078 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:44:03 | 37.40 | 34.20 | 1,078 | 1.64 | 0.14 | 59.0 |
| 4/29/2015 1:44:04 | 37.73 | 34.53 | 1,078 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:44:04 | 38.06 | 34.86 | 1,078 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:44:04 | 38.39 | 35.19 | 1,078 | 1.62 | 0.14 | 59.0 |
| 4/29/2015 1:44:05 | 38.71 | 35.51 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:44:05 | 39.04 | 35.84 | 1,075 | 1.64 | 0.14 | 58.8 |
| 4/29/2015 1:44:05 | 39.37 | 36.17 | 1,081 | 1.62 | 0.14 | 59.1 |
| 4/29/2015 1:44:06 | 39.70 | 36.50 | 1,078 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:44:06 | 40.03 | 36.83 | 1,078 | 1.63 | 0.14 | 59.0 |
| 4/29/2015 1:44:06 | 40.35 | 37.15 | 1,075 | 1.63 | 0.14 | 58.8 |
| 4/29/2015 1:44:07 | 40.68 | 37.48 | 1,075 | 1.63 | 0.14 | 58.8 |
| 4/29/2015 1:44:07 | 41.01 | 37.81 | 1,075 | 1.62 | 0.14 | 58.8 |
| 4/29/2015 1:44:07 | 41.34 | 38.14 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 1:44:08 | 41.67 | 38.47 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 1:44:08 | 41.99 | 38.79 | 1,058 | 1.63 | 0.14 | 57.9 |
| 4/29/2015 1:44:08 | 42.32 | 39.12 | 1,063 | 1.62 | 0.14 | 58.2 |
| 4/29/2015 1:44:09 | 42.65 | 39.45 | 1,063 | 1.62 | 0.14 | 58.2 |
| 4/29/2015 1:44:09 | 42.98 | 39.78 | 1,063 | 1.65 | 0.14 | 58.2 |
| 4/29/2015 1:44:09 | 43.31 | 40.11 | 1,063 | 1.64 | 0.14 | 58.2 |
| 4/29/2015 1:44:10 | 43.64 | 40.44 | 1,063 | 1.64 | 0.14 | 58.2 |
| 4/29/2015 1:44:10 | 43.96 | 40.76 | 1,063 | 1.64 | 0.14 | 58.2 |
| 4/29/2015 1:44:10 | 44.29 | 41.09 | 1,063 | 1.64 | 0.14 | 58.2 |
| 4/29/2015 1:44:10 | 44.62 | 41.42 | 1,084 | 1.64 | 0.14 | 59.3 |
| 4/29/2015 1:44:11 | 44.95 | 41.75 | 1,058 | 1.63 | 0.14 | 57.8 |
| 4/29/2015 1:44:11 | 45.28 | 42.08 | 1,058 | 1.63 | 0.14 | 57.8 |
| 4/29/2015 1:44:11 | 45.60 | 42.40 | 1,067 | 1.64 | 0.14 | 58.3 |
| 4/29/2015 1:44:12 | 45.93 | 42.73 | 1,071 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:44:13 | 46.26 | 43.06 | 1,071 | 1.64 | 0.14 | 58.6 |
| 4/29/2015 1:44:13 | 46.59 | 43.39 | 1,046 | 1.62 | 0.14 | 57.2 |
| 4/29/2015 1:44:13 | 46.92 | 43.72 | 1,053 | 1.63 | 0.14 | 57.6 |
| 4/29/2015 1:44:14 | 47.24 | 44.04 | 1,053 | 1.63 | 0.14 | 57.6 |
| 4/29/2015 1:44:14 | 47.57 | 44.37 | 1,074 | 1.64 | 0.14 | 58.7 |
| 4/29/2015 1:44:14 | 47.90 | 44.70 | 1,078 | 1.62 | 0.13 | 59.0 |
| 4/29/2015 1:44:15 | 48.23 | 45.03 | 1,078 | 1.62 | 0.13 | 59.0 |
| 4/29/2015 1:44:15 | 48.56 | 45.36 | 1,046 | 1.62 | 0.14 | 57.2 |
| 4/29/2015 1:44:15 | 48.88 | 45.68 | 1,046 | 1.62 | 0.14 | 57.2 |
| 4/29/2015 1:44:15 | 49.21 | 46.01 | 1,046 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 1:44:16 | 49.54 | 46.34 | 1,080 | 1.58 | 0.14 | 59.1 |
| 4/29/2015 1:44:25 | 49.87 | 46.67 | 0 | 1.62 | 1.04 | 0.0 |
| 4/29/2015 1:44:28 | 50.20 | 47.00 | 74 | 1.68 | 1.16 | 4.1 |
| 4/29/2015 1:44:29 | 50.53 | 47.33 | 165 | 1.73 | 1.27 | 9.0 |
| 4/29/2015 1:44:32 | 50.85 | 47.65 | 73 | 1.70 | 1.15 | 4.0 |
| 4/29/2015 1:44:33 | 51.18 | 47.98 | 208 | 1.70 | 1.15 | 11.4 |
| 4/29/2015 1:44:44 | 51.51 | 48.31 | 11 | 1.62 | 1.37 | 0.6 |
| 4/29/2015 1:44:46 | 51.84 | 48.64 | 69 | 1.71 | 1.25 | 3.8 |
| 4/29/2015 1:44:47 | 52.17 | 48.97 | 145 | 1.70 | 1.09 | 7.9 |
| 4/29/2015 1:44:55 | 52.49 | 49.29 | 0 | 1.72 | 1.45 | 0.0 |
| 4/29/2015 1:44:56 | 52.82 | 49.62 | 107 | 1.57 | 1.20 | 5.9 |
| 4/29/2015 1:44:57 | 53.15 | 49.95 | 202 | 1.60 | 1.50 | 11.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:45:20 | 53.48 | 50.28 | 55 | 1.64 | 1.26 | 3.0 |
| 4/29/2015 | 1:45:25 | 53.81 | 50.61 | 79 | 1.65 | 1.21 | 4.3 |
| 4/29/2015 | 1:45:28 | 54.13 | 50.93 | 119 | 1.64 | 1.26 | 6.5 |
| 4/29/2015 | 1:45:35 | 54.46 | 51.26 | 46 | 1.67 | 1.30 | 2.5 |
| 4/29/2015 | 1:45:43 | 54.79 | 51.59 | 37 | 1.66 | 1.29 | 2.0 |
| 4/29/2015 | 1:45:52 | 55.12 | 51.92 | 44 | 1.64 | 1.18 | 2.4 |
| 4/29/2015 | 1:45:59 | 55.45 | 52.25 | 52 | 1.64 | 1.21 | 2.8 |
| 4/29/2015 | 1:46:02 | 55.77 | 52.57 | 121 | 1.64 | 1.23 | 6.6 |
| 4/29/2015 | 1:46:08 | 56.10 | 52.90 | 49 | 1.68 | 1.21 | 2.7 |
| 4/29/2015 | 1:46:15 | 56.43 | 53.23 | 46 | 1.65 | 1.11 | 2.5 |
| 4/29/2015 | 1:46:24 | 56.76 | 53.56 | 43 | 1.66 | 1.18 | 2.4 |
| 4/29/2015 | 1:46:30 | 57.05 | 53.85 | 50 | 1.63 | 1.25 | 2.7 |

## I63 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:42:42

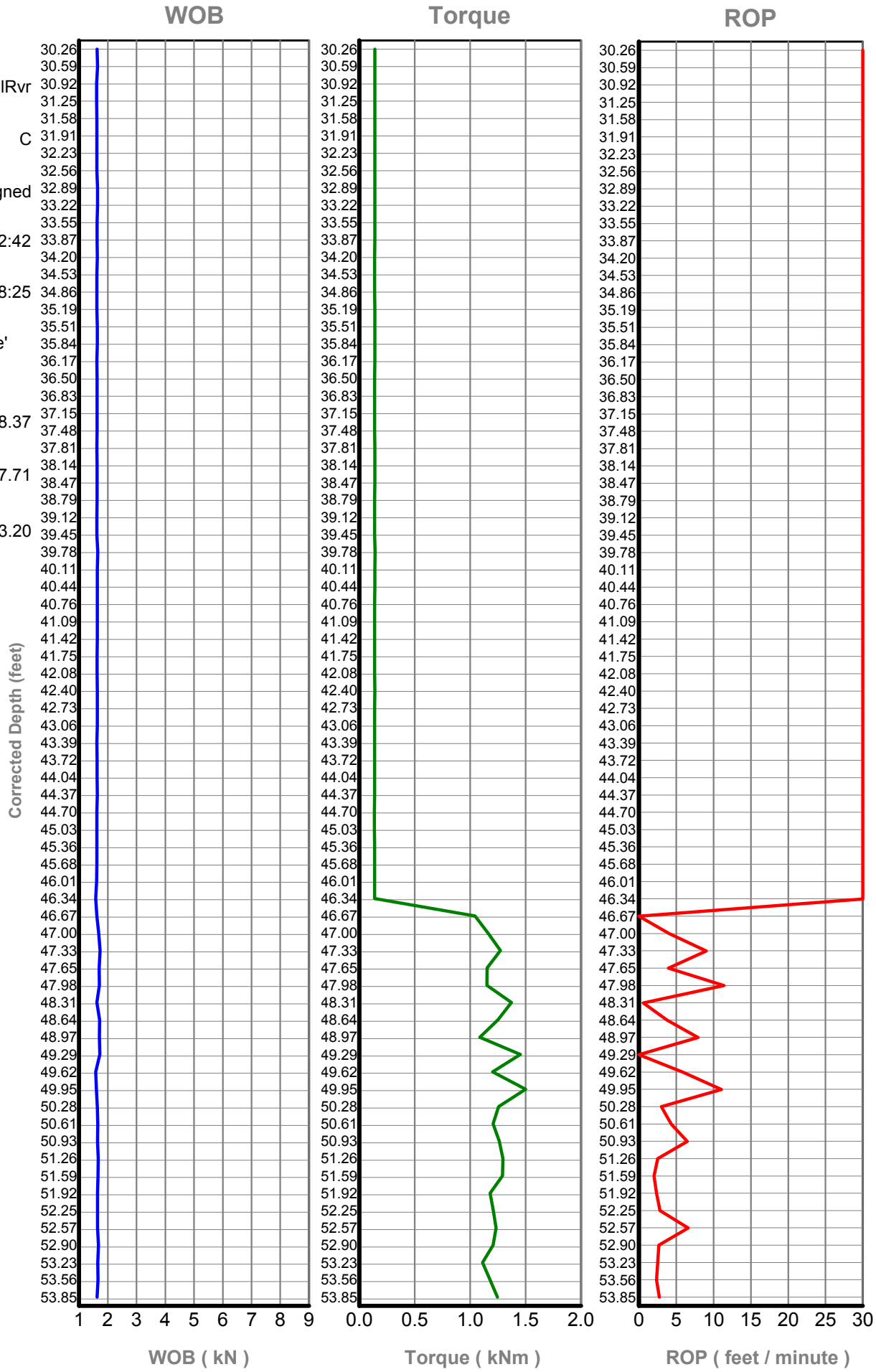
**End Date:**
4/29/2015 1:48:25

**Operator Note:**
'3.2 3.3 c Auto Complete'

**Northing:**
364,298.37

**Easting:**
248,067.71

**Tide (feet):**
3.20



## Hole: I64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 23:00:08 | 36.09 | 30.29 | 731 | 1.08 | 0.19 | 40.0 |
| 4/28/2015 23:00:09 | 36.42 | 30.62 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:09 | 36.75 | 30.95 | 731 | 1.07 | 0.19 | 40.0 |
| 4/28/2015 23:00:10 | 37.07 | 31.27 | 734 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:00:10 | 37.40 | 31.60 | 730 | 1.08 | 0.19 | 39.9 |
| 4/28/2015 23:00:11 | 37.73 | 31.93 | 737 | 1.08 | 0.19 | 40.3 |
| 4/28/2015 23:00:11 | 38.06 | 32.26 | 734 | 1.07 | 0.19 | 40.1 |
| 4/28/2015 23:00:12 | 38.39 | 32.59 | 737 | 1.08 | 0.19 | 40.3 |
| 4/28/2015 23:00:13 | 38.71 | 32.91 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:13 | 39.04 | 33.24 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:13 | 39.37 | 33.57 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:14 | 39.70 | 33.90 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:14 | 40.03 | 34.23 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:15 | 40.35 | 34.55 | 733 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:00:15 | 40.68 | 34.88 | 737 | 1.07 | 0.19 | 40.3 |
| 4/28/2015 23:00:16 | 41.01 | 35.21 | 737 | 1.09 | 0.19 | 40.3 |
| 4/28/2015 23:00:16 | 41.34 | 35.54 | 734 | 1.09 | 0.19 | 40.1 |
| 4/28/2015 23:00:17 | 41.67 | 35.87 | 734 | 1.08 | 0.19 | 40.1 |
| 4/28/2015 23:00:17 | 41.99 | 36.19 | 739 | 1.07 | 0.19 | 40.4 |
| 4/28/2015 23:00:18 | 42.32 | 36.52 | 734 | 1.08 | 0.19 | 40.1 |
| 4/28/2015 23:00:18 | 42.65 | 36.85 | 731 | 1.09 | 0.19 | 40.0 |
| 4/28/2015 23:00:19 | 42.98 | 37.18 | 734 | 1.07 | 0.19 | 40.2 |
| 4/28/2015 23:00:19 | 43.31 | 37.51 | 719 | 1.08 | 0.19 | 39.3 |
| 4/28/2015 23:00:20 | 43.64 | 37.84 | 719 | 1.08 | 0.19 | 39.3 |
| 4/28/2015 23:00:20 | 43.96 | 38.16 | 719 | 1.08 | 0.19 | 39.3 |
| 4/28/2015 23:00:20 | 44.29 | 38.49 | 725 | 1.07 | 0.19 | 39.6 |
| 4/28/2015 23:00:21 | 44.62 | 38.82 | 721 | 1.08 | 0.20 | 39.5 |
| 4/28/2015 23:00:21 | 44.95 | 39.15 | 729 | 1.08 | 0.19 | 39.9 |
| 4/28/2015 23:00:22 | 45.28 | 39.48 | 722 | 1.07 | 0.19 | 39.5 |
| 4/28/2015 23:00:22 | 45.60 | 39.80 | 738 | 1.08 | 0.19 | 40.4 |
| 4/28/2015 23:00:23 | 45.93 | 40.13 | 721 | 1.07 | 0.19 | 39.5 |
| 4/28/2015 23:00:24 | 46.26 | 40.46 | 729 | 1.09 | 0.19 | 39.9 |
| 4/28/2015 23:00:24 | 46.59 | 40.79 | 726 | 1.09 | 0.19 | 39.7 |
| 4/28/2015 23:00:25 | 46.92 | 41.12 | 726 | 1.08 | 0.19 | 39.7 |
| 4/28/2015 23:00:25 | 47.24 | 41.44 | 721 | 1.09 | 0.19 | 39.5 |
| 4/28/2015 23:00:26 | 47.57 | 41.77 | 724 | 1.09 | 0.19 | 39.6 |
| 4/28/2015 23:00:26 | 47.90 | 42.10 | 726 | 1.08 | 0.19 | 39.7 |
| 4/28/2015 23:00:27 | 48.23 | 42.43 | 726 | 1.07 | 0.19 | 39.7 |
| 4/28/2015 23:00:27 | 48.56 | 42.76 | 726 | 1.08 | 0.19 | 39.7 |
| 4/28/2015 23:00:28 | 48.88 | 43.08 | 729 | 1.09 | 0.19 | 39.9 |
| 4/28/2015 23:00:28 | 49.21 | 43.41 | 735 | 1.08 | 0.19 | 40.2 |
| 4/28/2015 23:00:29 | 49.54 | 43.74 | 726 | 1.09 | 0.19 | 39.7 |
| 4/28/2015 23:00:29 | 49.87 | 44.07 | 726 | 1.09 | 0.19 | 39.7 |
| 4/28/2015 23:00:29 | 50.20 | 44.40 | 721 | 1.09 | 0.19 | 39.4 |
| 4/28/2015 23:00:30 | 50.53 | 44.73 | 728 | 1.08 | 0.19 | 39.8 |
| 4/28/2015 23:00:30 | 50.85 | 45.05 | 726 | 1.08 | 0.19 | 39.7 |
| 4/28/2015 23:00:31 | 51.18 | 45.38 | 723 | 1.09 | 0.19 | 39.5 |
| 4/28/2015 23:00:31 | 51.51 | 45.71 | 723 | 1.09 | 0.19 | 39.5 |
| 4/28/2015 23:00:32 | 51.84 | 46.04 | 723 | 1.08 | 0.19 | 39.5 |
| 4/28/2015 23:00:32 | 52.17 | 46.37 | 720 | 1.08 | 0.19 | 39.4 |
| 4/28/2015 23:00:33 | 52.49 | 46.69 | 717 | 1.08 | 0.19 | 39.2 |
| 4/28/2015 23:00:34 | 52.82 | 47.02 | 715 | 1.09 | 0.19 | 39.1 |
| 4/28/2015 23:00:34 | 53.15 | 47.35 | 719 | 1.08 | 0.19 | 39.3 |
| 4/28/2015 23:00:35 | 53.48 | 47.68 | 720 | 1.09 | 0.19 | 39.4 |
| 4/28/2015 23:00:50 | 53.81 | 48.01 | 0 | 1.13 | 1.14 | 0.0 |
| 4/28/2015 23:01:00 | 54.13 | 48.33 | 23 | 1.12 | 1.27 | 1.3 |
| 4/28/2015 23:01:01 | 54.46 | 48.66 | 210 | 1.00 | 1.13 | 11.5 |
| 4/28/2015 23:01:02 | 54.79 | 48.99 | 295 | 1.15 | 1.00 | 16.1 |
| 4/28/2015 23:01:06 | 55.12 | 49.32 | 0 | 1.09 | 0.95 | 0.0 |
| 4/28/2015 23:01:07 | 55.45 | 49.65 | 136 | 1.13 | 1.02 | 7.4 |
| 4/28/2015 23:01:08 | 55.77 | 49.97 | 197 | 1.11 | 0.91 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:01:10 | 56.10 | 50.30 | 288 | 1.05 | 1.27 | 15.7 |
| 4/28/2015 | 23:01:11 | 56.43 | 50.63 | 205 | 1.06 | 0.83 | 11.2 |
| 4/28/2015 | 23:01:12 | 56.76 | 50.96 | 281 | 1.17 | 0.88 | 15.3 |
| 4/28/2015 | 23:01:18 | 57.09 | 51.29 | 48 | 1.10 | 1.04 | 2.7 |
| 4/28/2015 | 23:01:22 | 57.41 | 51.61 | 87 | 1.01 | 1.15 | 4.7 |
| 4/28/2015 | 23:01:24 | 57.74 | 51.94 | 167 | 1.11 | 1.44 | 9.1 |
| 4/28/2015 | 23:01:25 | 58.07 | 52.27 | 237 | 1.11 | 0.95 | 13.0 |
| 4/28/2015 | 23:01:34 | 58.40 | 52.60 | 96 | 1.09 | 1.23 | 5.2 |
| 4/28/2015 | 23:01:39 | 58.73 | 52.93 | 65 | 1.06 | 1.20 | 3.6 |
| 4/28/2015 | 23:01:42 | 59.06 | 53.26 | 107 | 1.05 | 1.11 | 5.8 |
| 4/28/2015 | 23:01:45 | 59.38 | 53.58 | 121 | 1.09 | 1.16 | 6.6 |
| 4/28/2015 | 23:01:51 | 59.71 | 53.91 | 53 | 1.06 | 1.06 | 2.9 |
| 4/28/2015 | 23:01:59 | 60.04 | 54.24 | 49 | 1.08 | 0.93 | 2.7 |
| 4/28/2015 | 23:02:07 | 60.37 | 54.57 | 46 | 1.11 | 1.03 | 2.5 |
| 4/28/2015 | 23:02:15 | 60.70 | 54.90 | 41 | 1.02 | 0.91 | 2.2 |
| 4/28/2015 | 23:02:23 | 60.96 | 55.16 | 37 | 1.13 | 1.08 | 2.0 |

## I64 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:57:13

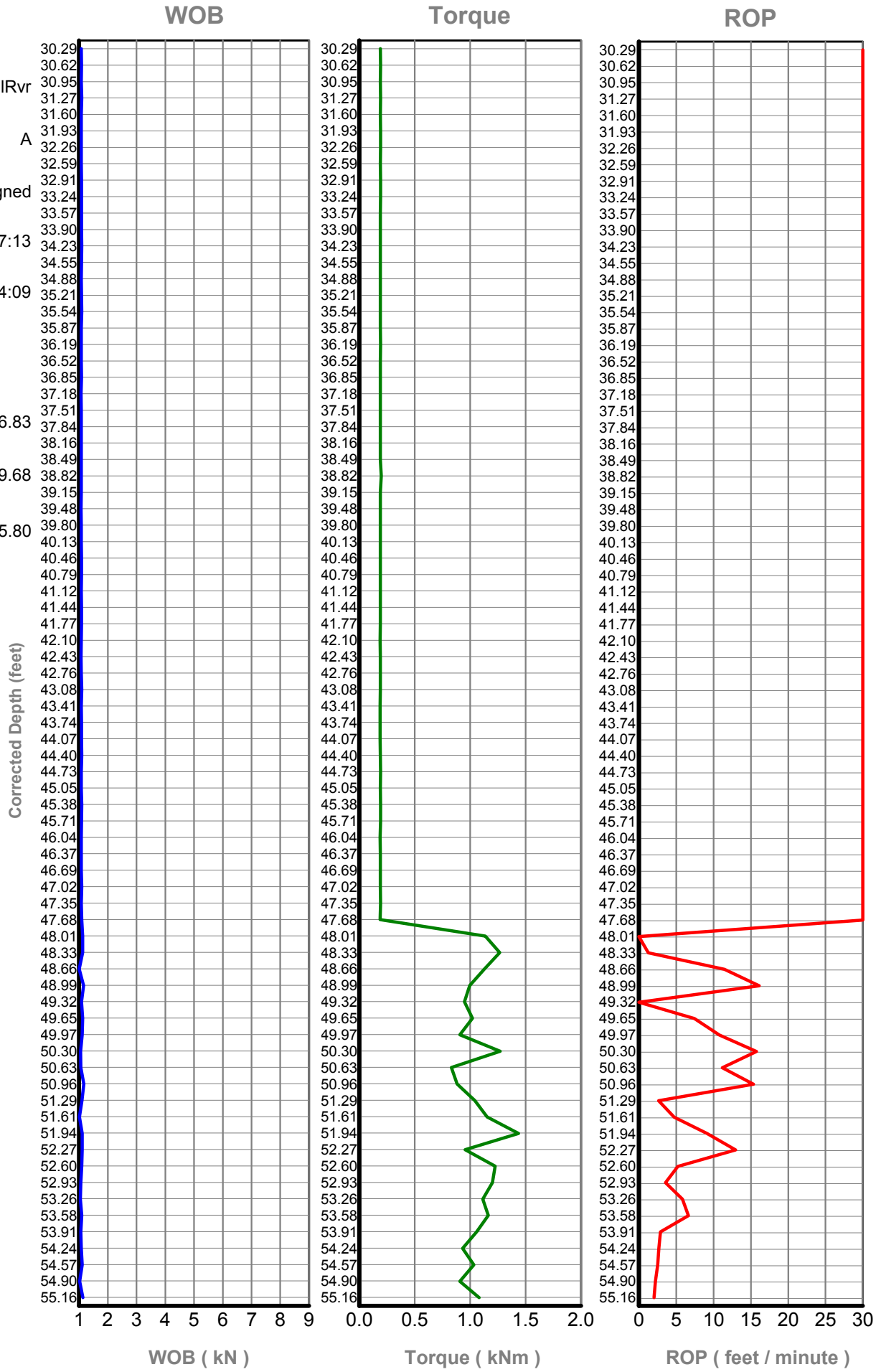
**End Date:**
4/28/2015 23:04:09

**Operator Note:**
'5.8 6 b Auto Complete'

**Northing:**
364,356.83

**Easting:**
248,129.68

**Tide (feet):**
5.80



## Hole: I65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 22:59:51 | 36.09 | 30.29 | 1,210 | 0.34 | 0.34 | 66.2 |
| 4/28/2015 22:59:52 | 36.42 | 30.62 | 1,210 | 0.34 | 0.34 | 66.2 |
| 4/28/2015 22:59:52 | 36.75 | 30.95 | 1,197 | 0.34 | 0.42 | 65.5 |
| 4/28/2015 22:59:52 | 37.07 | 31.27 | 1,197 | 0.34 | 0.42 | 65.5 |
| 4/28/2015 22:59:52 | 37.40 | 31.60 | 1,221 | 0.34 | 0.42 | 66.7 |
| 4/28/2015 22:59:53 | 37.73 | 31.93 | 1,200 | 0.34 | 0.42 | 65.6 |
| 4/28/2015 22:59:53 | 38.06 | 32.26 | 1,200 | 0.34 | 0.42 | 65.6 |
| 4/28/2015 22:59:53 | 38.39 | 32.59 | 1,200 | 0.34 | 0.42 | 65.6 |
| 4/28/2015 22:59:54 | 38.71 | 32.91 | 1,200 | 0.34 | 0.42 | 65.6 |
| 4/28/2015 22:59:54 | 39.04 | 33.24 | 1,196 | 0.34 | 0.41 | 65.4 |
| 4/28/2015 22:59:55 | 39.37 | 33.57 | 1,196 | 0.34 | 0.41 | 65.4 |
| 4/28/2015 22:59:55 | 39.70 | 33.90 | 1,212 | 0.34 | 0.41 | 66.3 |
| 4/28/2015 22:59:55 | 40.03 | 34.23 | 1,209 | 0.34 | 0.42 | 66.1 |
| 4/28/2015 22:59:56 | 40.35 | 34.55 | 1,209 | 0.34 | 0.42 | 66.1 |
| 4/28/2015 22:59:56 | 40.68 | 34.88 | 1,209 | 0.34 | 0.42 | 66.1 |
| 4/28/2015 22:59:56 | 41.01 | 35.21 | 1,209 | 0.34 | 0.42 | 66.1 |
| 4/28/2015 22:59:56 | 41.34 | 35.54 | 1,207 | 0.34 | 0.42 | 66.0 |
| 4/28/2015 22:59:57 | 41.67 | 35.87 | 1,207 | 0.34 | 0.42 | 66.0 |
| 4/28/2015 22:59:57 | 41.99 | 36.19 | 1,225 | 0.34 | 0.42 | 67.0 |
| 4/28/2015 22:59:57 | 42.32 | 36.52 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:58 | 42.65 | 36.85 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:58 | 42.98 | 37.18 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:58 | 43.31 | 37.51 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:58 | 43.64 | 37.84 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:59 | 43.96 | 38.16 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 22:59:59 | 44.29 | 38.49 | 1,208 | 0.34 | 0.42 | 66.1 |
| 4/28/2015 22:59:59 | 44.62 | 38.82 | 1,203 | 0.34 | 0.41 | 65.8 |
| 4/28/2015 23:00:00 | 44.95 | 39.15 | 1,203 | 0.34 | 0.41 | 65.8 |
| 4/28/2015 23:00:00 | 45.28 | 39.48 | 1,205 | 0.34 | 0.41 | 65.9 |
| 4/28/2015 23:00:00 | 45.60 | 39.80 | 1,205 | 0.34 | 0.41 | 65.9 |
| 4/28/2015 23:00:00 | 45.93 | 40.13 | 1,201 | 0.33 | 0.42 | 65.7 |
| 4/28/2015 23:00:01 | 46.26 | 40.46 | 1,201 | 0.33 | 0.42 | 65.7 |
| 4/28/2015 23:00:01 | 46.59 | 40.79 | 1,211 | 0.33 | 0.41 | 66.2 |
| 4/28/2015 23:00:01 | 46.92 | 41.12 | 1,211 | 0.33 | 0.41 | 66.2 |
| 4/28/2015 23:00:01 | 47.24 | 41.44 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 23:00:02 | 47.57 | 41.77 | 1,214 | 0.33 | 0.42 | 66.4 |
| 4/28/2015 23:00:02 | 47.90 | 42.10 | 1,214 | 0.33 | 0.42 | 66.4 |
| 4/28/2015 23:00:02 | 48.23 | 42.43 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 23:00:03 | 48.56 | 42.76 | 1,211 | 0.34 | 0.42 | 66.2 |
| 4/28/2015 23:00:03 | 48.88 | 43.08 | 1,194 | 0.34 | 0.41 | 65.3 |
| 4/28/2015 23:00:03 | 49.21 | 43.41 | 1,194 | 0.34 | 0.41 | 65.3 |
| 4/28/2015 23:00:03 | 49.54 | 43.74 | 1,194 | 0.34 | 0.41 | 65.3 |
| 4/28/2015 23:00:04 | 49.87 | 44.07 | 1,200 | 0.34 | 0.43 | 65.6 |
| 4/28/2015 23:00:05 | 50.20 | 44.40 | 1,200 | 0.34 | 0.43 | 65.6 |
| 4/28/2015 23:00:05 | 50.53 | 44.73 | 1,198 | 0.34 | 0.41 | 65.5 |
| 4/28/2015 23:00:05 | 50.85 | 45.05 | 1,198 | 0.34 | 0.41 | 65.5 |
| 4/28/2015 23:00:05 | 51.18 | 45.38 | 1,197 | 0.34 | 0.41 | 65.5 |
| 4/28/2015 23:00:06 | 51.51 | 45.71 | 1,197 | 0.34 | 0.41 | 65.5 |
| 4/28/2015 23:00:06 | 51.84 | 46.04 | 1,198 | 0.33 | 0.42 | 65.5 |
| 4/28/2015 23:00:06 | 52.17 | 46.37 | 1,219 | 0.33 | 0.42 | 66.7 |
| 4/28/2015 23:00:07 | 52.49 | 46.69 | 1,219 | 0.33 | 0.42 | 66.7 |
| 4/28/2015 23:00:07 | 52.82 | 47.02 | 1,203 | 0.34 | 0.42 | 65.8 |
| 4/28/2015 23:00:07 | 53.15 | 47.35 | 1,203 | 0.34 | 0.42 | 65.8 |
| 4/28/2015 23:00:07 | 53.48 | 47.68 | 1,210 | 0.33 | 0.42 | 66.2 |
| 4/28/2015 23:00:08 | 53.81 | 48.01 | 1,210 | 0.33 | 0.42 | 66.2 |
| 4/28/2015 23:00:12 | 54.13 | 48.33 | 0 | 3.09 | 0.44 | 0.0 |
| 4/28/2015 23:00:17 | 54.46 | 48.66 | 37 | 3.37 | 0.47 | 2.0 |
| 4/28/2015 23:00:20 | 54.79 | 48.99 | 26 | 3.26 | 0.42 | 1.4 |
| 4/28/2015 23:00:28 | 55.12 | 49.32 | 11 | 5.82 | 0.48 | 0.6 |
| 4/28/2015 23:00:31 | 55.45 | 49.65 | 41 | 5.14 | 0.45 | 2.3 |
| 4/28/2015 23:00:32 | 55.77 | 49.97 | 181 | 3.63 | 0.43 | 9.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:00:33 | 56.10 | 50.30 | 366 | 3.24 | 0.44 | 20.0 |
| 4/28/2015 | 23:00:34 | 56.43 | 50.63 | 411 | 3.37 | 0.44 | 22.5 |
| 4/28/2015 | 23:00:35 | 56.76 | 50.96 | 343 | 3.18 | 0.45 | 18.7 |
| 4/28/2015 | 23:00:37 | 57.09 | 51.29 | 289 | 3.03 | 0.45 | 15.8 |
| 4/28/2015 | 23:00:38 | 57.41 | 51.61 | 288 | 2.99 | 0.46 | 15.8 |
| 4/28/2015 | 23:00:40 | 57.74 | 51.94 | 200 | 3.39 | 0.42 | 10.9 |
| 4/28/2015 | 23:00:40 | 58.07 | 52.27 | 242 | 3.41 | 0.44 | 13.2 |
| 4/28/2015 | 23:00:41 | 58.40 | 52.60 | 302 | 2.97 | 0.42 | 16.5 |
| 4/28/2015 | 23:00:41 | 58.73 | 52.93 | 396 | 2.65 | 0.41 | 21.6 |
| 4/28/2015 | 23:00:44 | 59.06 | 53.26 | 134 | 2.90 | 0.43 | 7.3 |
| 4/28/2015 | 23:00:45 | 59.38 | 53.58 | 211 | 3.00 | 0.45 | 11.6 |
| 4/28/2015 | 23:00:47 | 59.71 | 53.91 | 373 | 3.18 | 0.46 | 20.4 |
| 4/28/2015 | 23:00:49 | 60.04 | 54.24 | 177 | 3.31 | 0.46 | 9.7 |
| 4/28/2015 | 23:00:50 | 60.37 | 54.57 | 191 | 3.12 | 0.43 | 10.4 |
| 4/28/2015 | 23:00:51 | 60.70 | 54.90 | 283 | 3.56 | 0.47 | 15.5 |
| 4/28/2015 | 23:00:55 | 61.02 | 55.22 | 88 | 2.98 | 0.47 | 4.8 |

## I65 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:58:19

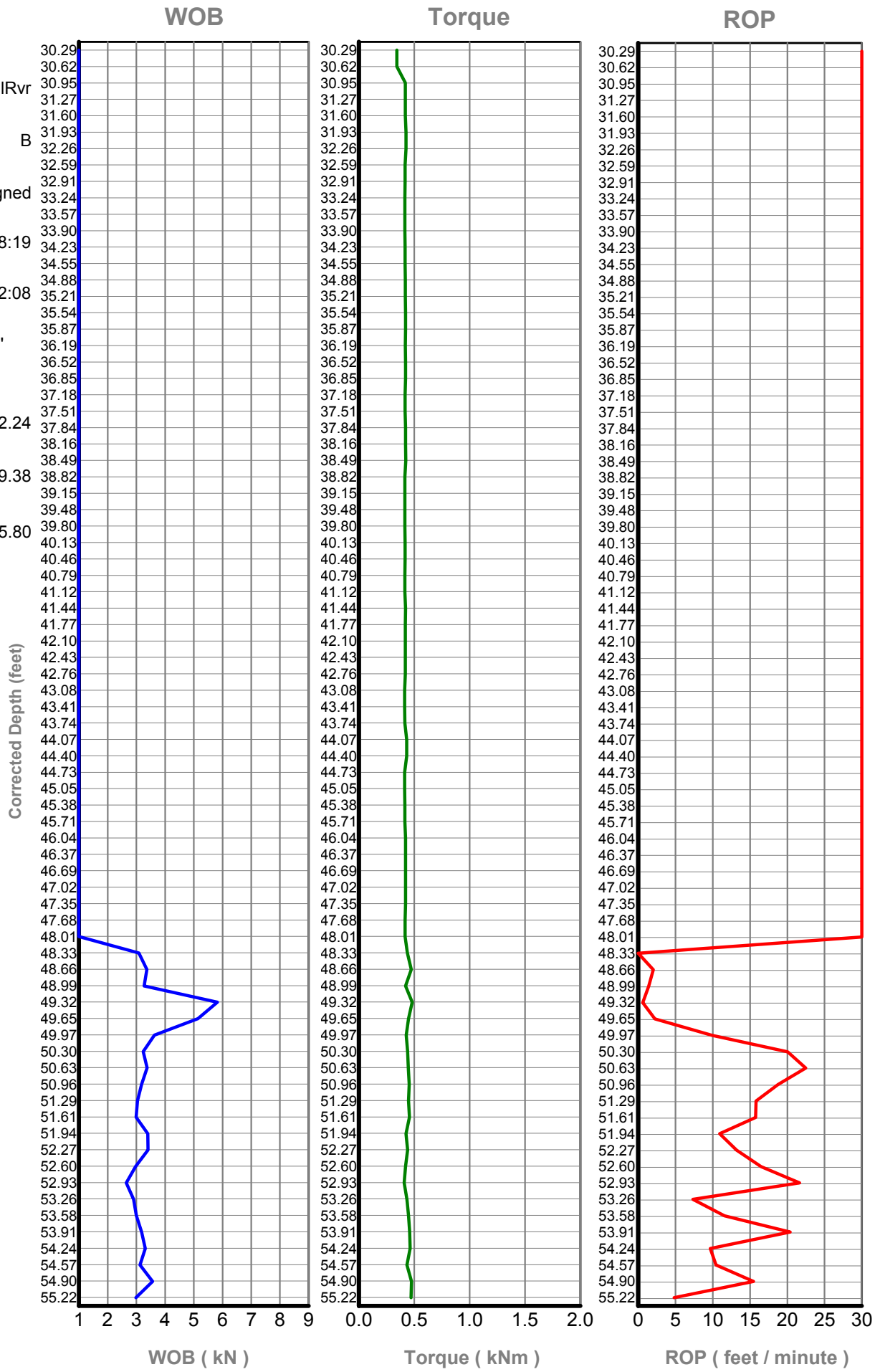
**End Date:**
4/28/2015 23:02:08

**Operator Note:**
'5.8 6.0b Auto Complete'

**Northing:**
364,402.24

**Easting:**
248,189.38

**Tide (feet):**
5.80



## Hole: I66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 22:59:42 | 36.09 | 30.29 | 1,040 | 1.61 | 0.15 | 56.8 |
| 4/28/2015 22:59:42 | 36.42 | 30.62 | 1,040 | 1.61 | 0.15 | 56.8 |
| 4/28/2015 22:59:42 | 36.75 | 30.95 | 1,025 | 1.60 | 0.15 | 56.1 |
| 4/28/2015 22:59:43 | 37.07 | 31.27 | 1,025 | 1.59 | 0.15 | 56.1 |
| 4/28/2015 22:59:43 | 37.40 | 31.60 | 1,025 | 1.59 | 0.15 | 56.1 |
| 4/28/2015 22:59:43 | 37.73 | 31.93 | 1,047 | 1.61 | 0.15 | 57.3 |
| 4/28/2015 22:59:44 | 38.06 | 32.26 | 1,047 | 1.62 | 0.15 | 57.3 |
| 4/28/2015 22:59:44 | 38.39 | 32.59 | 1,047 | 1.62 | 0.15 | 57.3 |
| 4/28/2015 22:59:44 | 38.71 | 32.91 | 1,062 | 1.62 | 0.15 | 58.0 |
| 4/28/2015 22:59:45 | 39.04 | 33.24 | 1,055 | 1.62 | 0.15 | 57.7 |
| 4/28/2015 22:59:45 | 39.37 | 33.57 | 1,055 | 1.62 | 0.15 | 57.7 |
| 4/28/2015 22:59:45 | 39.70 | 33.90 | 1,041 | 1.62 | 0.15 | 56.9 |
| 4/28/2015 22:59:46 | 40.03 | 34.23 | 1,022 | 1.61 | 0.15 | 55.9 |
| 4/28/2015 22:59:46 | 40.35 | 34.55 | 1,022 | 1.61 | 0.15 | 55.9 |
| 4/28/2015 22:59:46 | 40.68 | 34.88 | 1,022 | 1.62 | 0.15 | 55.9 |
| 4/28/2015 22:59:47 | 41.01 | 35.21 | 1,039 | 1.60 | 0.15 | 56.8 |
| 4/28/2015 22:59:48 | 41.34 | 35.54 | 1,039 | 1.60 | 0.15 | 56.8 |
| 4/28/2015 22:59:48 | 41.67 | 35.87 | 1,013 | 1.60 | 0.15 | 55.4 |
| 4/28/2015 22:59:48 | 41.99 | 36.19 | 1,007 | 1.62 | 0.15 | 55.1 |
| 4/28/2015 22:59:49 | 42.32 | 36.52 | 1,007 | 1.62 | 0.15 | 55.1 |
| 4/28/2015 22:59:49 | 42.65 | 36.85 | 1,024 | 1.62 | 0.15 | 56.0 |
| 4/28/2015 22:59:49 | 42.98 | 37.18 | 1,023 | 1.62 | 0.16 | 56.0 |
| 4/28/2015 22:59:49 | 43.31 | 37.51 | 1,023 | 1.62 | 0.16 | 56.0 |
| 4/28/2015 22:59:50 | 43.64 | 37.84 | 1,023 | 1.61 | 0.15 | 56.0 |
| 4/28/2015 22:59:50 | 43.96 | 38.16 | 1,033 | 1.61 | 0.15 | 56.5 |
| 4/28/2015 22:59:51 | 44.29 | 38.49 | 1,033 | 1.61 | 0.15 | 56.5 |
| 4/28/2015 22:59:51 | 44.62 | 38.82 | 1,033 | 1.60 | 0.15 | 56.5 |
| 4/28/2015 22:59:51 | 44.95 | 39.15 | 1,033 | 1.60 | 0.15 | 56.5 |
| 4/28/2015 22:59:51 | 45.28 | 39.48 | 1,045 | 1.60 | 0.15 | 57.2 |
| 4/28/2015 22:59:52 | 45.60 | 39.80 | 1,034 | 1.61 | 0.15 | 56.6 |
| 4/28/2015 22:59:52 | 45.93 | 40.13 | 1,034 | 1.61 | 0.15 | 56.6 |
| 4/28/2015 22:59:52 | 46.26 | 40.46 | 1,053 | 1.62 | 0.15 | 57.6 |
| 4/28/2015 22:59:53 | 46.59 | 40.79 | 1,014 | 1.62 | 0.15 | 55.4 |
| 4/28/2015 22:59:53 | 46.92 | 41.12 | 1,014 | 1.62 | 0.15 | 55.4 |
| 4/28/2015 22:59:53 | 47.24 | 41.44 | 1,014 | 1.62 | 0.15 | 55.4 |
| 4/28/2015 22:59:54 | 47.57 | 41.77 | 1,035 | 1.61 | 0.15 | 56.6 |
| 4/28/2015 22:59:54 | 47.90 | 42.10 | 1,035 | 1.61 | 0.15 | 56.6 |
| 4/28/2015 22:59:54 | 48.23 | 42.43 | 1,005 | 1.62 | 0.15 | 55.0 |
| 4/28/2015 22:59:55 | 48.56 | 42.76 | 1,005 | 1.62 | 0.15 | 55.0 |
| 4/28/2015 22:59:56 | 48.88 | 43.08 | 1,005 | 1.62 | 0.15 | 55.0 |
| 4/28/2015 22:59:55 | 49.21 | 43.41 | 1,015 | 1.62 | 0.15 | 55.5 |
| 4/28/2015 22:59:56 | 49.54 | 43.74 | 1,015 | 1.61 | 0.15 | 55.5 |
| 4/28/2015 22:59:56 | 49.87 | 44.07 | 1,015 | 1.61 | 0.15 | 55.5 |
| 4/28/2015 22:59:56 | 50.20 | 44.40 | 1,015 | 1.53 | 0.15 | 55.5 |
| 4/28/2015 22:59:57 | 50.53 | 44.73 | 1,050 | 1.61 | 0.15 | 57.4 |
| 4/28/2015 22:59:57 | 50.85 | 45.05 | 1,050 | 1.61 | 0.15 | 57.4 |
| 4/28/2015 22:59:58 | 51.18 | 45.38 | 1,032 | 1.62 | 0.15 | 56.4 |
| 4/28/2015 22:59:58 | 51.51 | 45.71 | 1,020 | 1.60 | 0.15 | 55.8 |
| 4/28/2015 22:59:59 | 51.84 | 46.04 | 1,020 | 1.60 | 0.15 | 55.8 |
| 4/28/2015 23:00:10 | 52.17 | 46.37 | 0 | 1.61 | 1.03 | 0.0 |
| 4/28/2015 23:00:21 | 52.49 | 46.69 | 0 | 1.64 | 1.08 | 0.0 |
| 4/28/2015 23:00:23 | 52.82 | 47.02 | 90 | 1.66 | 1.24 | 4.9 |
| 4/28/2015 23:00:24 | 53.15 | 47.35 | 141 | 1.64 | 1.20 | 7.7 |
| 4/28/2015 23:00:24 | 53.48 | 47.68 | 235 | 1.68 | 1.07 | 12.8 |
| 4/28/2015 23:00:25 | 53.81 | 48.01 | 328 | 1.68 | 1.17 | 17.9 |
| 4/28/2015 23:00:30 | 54.13 | 48.33 | 50 | 1.68 | 1.40 | 2.8 |
| 4/28/2015 23:00:31 | 54.46 | 48.66 | 124 | 1.68 | 1.18 | 6.8 |
| 4/28/2015 23:00:32 | 54.79 | 48.99 | 209 | 1.66 | 1.22 | 11.4 |
| 4/28/2015 23:00:40 | 55.12 | 49.32 | 55 | 1.63 | 1.24 | 3.0 |
| 4/28/2015 23:00:41 | 55.45 | 49.65 | 158 | 1.67 | 1.07 | 8.6 |
| 4/28/2015 23:00:41 | 55.77 | 49.97 | 264 | 1.68 | 1.07 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 23:00:42 | 56.10 | 50.30 | 369 | 1.66 | 1.06 | 20.2 |
| 4/28/2015 | 23:00:42 | 56.43 | 50.63 | 472 | 1.72 | 1.02 | 25.8 |
| 4/28/2015 | 23:00:43 | 56.76 | 50.96 | 564 | 1.70 | 1.04 | 30.8 |
| 4/28/2015 | 23:00:53 | 57.09 | 51.29 | 51 | 1.68 | 1.10 | 2.8 |
| 4/28/2015 | 23:00:54 | 57.41 | 51.61 | 51 | 1.68 | 1.04 | 2.8 |
| 4/28/2015 | 23:00:54 | 57.74 | 51.94 | 163 | 1.66 | 1.13 | 8.9 |
| 4/28/2015 | 23:00:56 | 58.07 | 52.27 | 224 | 1.69 | 1.35 | 12.2 |
| 4/28/2015 | 23:00:57 | 58.40 | 52.60 | 287 | 1.67 | 1.11 | 15.7 |
| 4/28/2015 | 23:00:59 | 58.73 | 52.93 | 269 | 1.68 | 1.19 | 14.7 |
| 4/28/2015 | 23:01:01 | 59.06 | 53.26 | 243 | 1.67 | 1.32 | 13.3 |
| 4/28/2015 | 23:01:03 | 59.38 | 53.58 | 219 | 1.67 | 1.24 | 12.0 |
| 4/28/2015 | 23:01:04 | 59.71 | 53.91 | 219 | 1.64 | 1.20 | 12.0 |
| 4/28/2015 | 23:01:05 | 60.04 | 54.24 | 240 | 1.68 | 1.20 | 13.1 |
| 4/28/2015 | 23:01:06 | 60.37 | 54.57 | 301 | 1.70 | 1.23 | 16.5 |
| 4/28/2015 | 23:01:15 | 60.70 | 54.90 | 89 | 1.68 | 1.34 | 4.9 |
| 4/28/2015 | 23:01:19 | 60.99 | 55.19 | 76 | 1.69 | 1.49 | 4.1 |

## I66 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:58:21

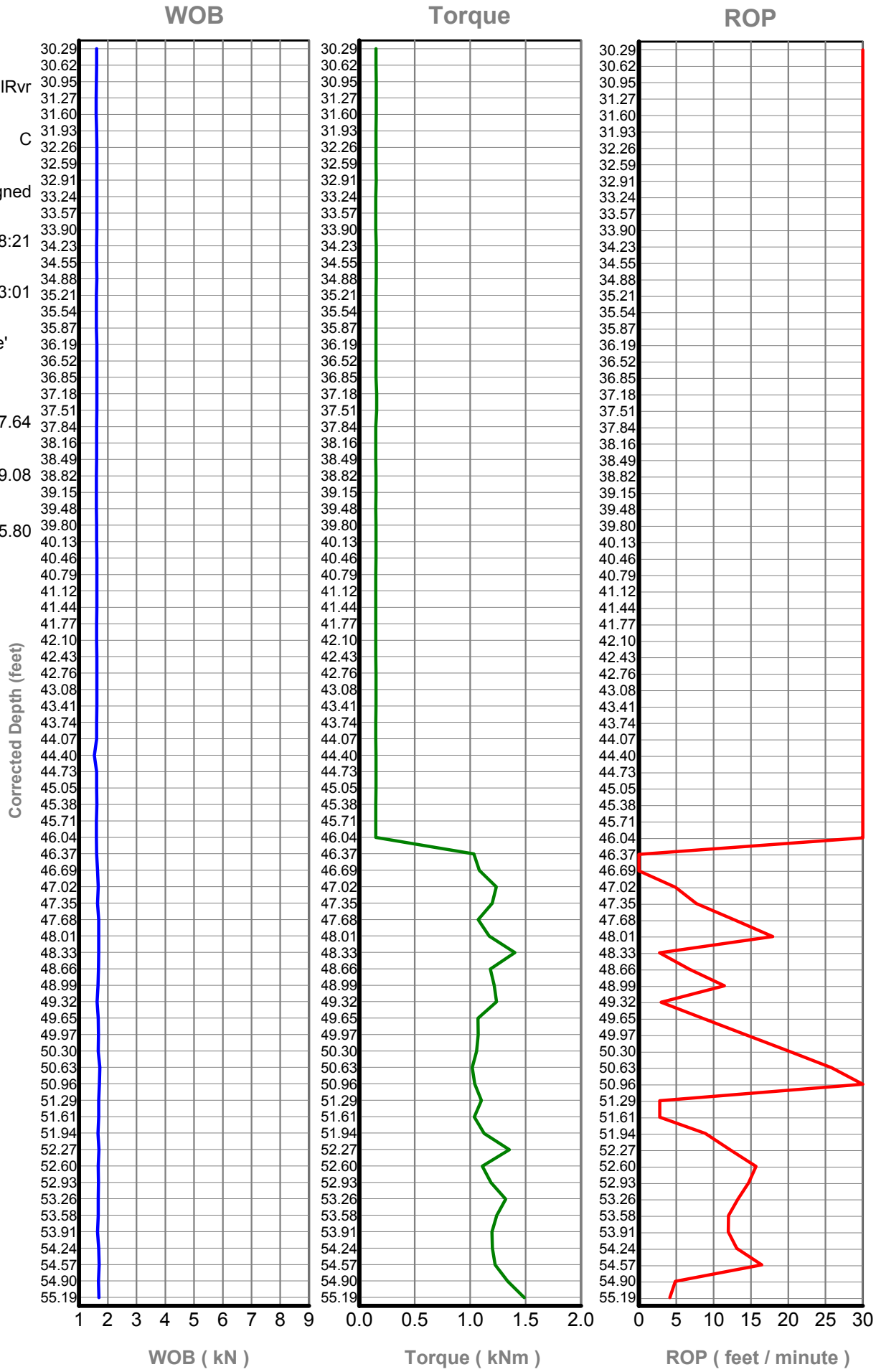
**End Date:**
4/28/2015 23:03:01

**Operator Note:**
'5.8 6.0 c Auto Complete'

**Northing:**
364,447.64

**Easting:**
248,249.08

**Tide (feet):**
5.80



## Hole: I67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:27:15 | 32.81 | 30.31 | 726 | 1.06 | 0.19 | 39.7 |
| 4/27/2015 17:27:15 | 33.14 | 30.64 | 726 | 1.06 | 0.19 | 39.7 |
| 4/27/2015 17:27:15 | 33.46 | 30.96 | 738 | 1.05 | 0.19 | 40.4 |
| 4/27/2015 17:27:16 | 33.79 | 31.29 | 737 | 1.06 | 0.19 | 40.3 |
| 4/27/2015 17:27:16 | 34.12 | 31.62 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 17:27:17 | 34.45 | 31.95 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 17:27:18 | 34.78 | 32.28 | 764 | 1.05 | 0.19 | 41.8 |
| 4/27/2015 17:27:18 | 35.11 | 32.61 | 747 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:27:19 | 35.43 | 32.93 | 755 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 17:27:19 | 35.76 | 33.26 | 746 | 1.06 | 0.19 | 40.8 |
| 4/27/2015 17:27:20 | 36.09 | 33.59 | 755 | 1.07 | 0.19 | 41.3 |
| 4/27/2015 17:27:20 | 36.42 | 33.92 | 751 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 17:27:21 | 36.75 | 34.25 | 751 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 17:27:21 | 37.07 | 34.57 | 763 | 1.06 | 0.19 | 41.7 |
| 4/27/2015 17:27:21 | 37.40 | 34.90 | 752 | 1.07 | 0.19 | 41.1 |
| 4/27/2015 17:27:22 | 37.73 | 35.23 | 764 | 1.06 | 0.19 | 41.8 |
| 4/27/2015 17:27:22 | 38.06 | 35.56 | 750 | 1.07 | 0.19 | 41.0 |
| 4/27/2015 17:27:23 | 38.39 | 35.89 | 758 | 1.07 | 0.19 | 41.4 |
| 4/27/2015 17:27:23 | 38.71 | 36.21 | 758 | 1.06 | 0.19 | 41.4 |
| 4/27/2015 17:27:24 | 39.04 | 36.54 | 761 | 1.07 | 0.19 | 41.6 |
| 4/27/2015 17:27:24 | 39.37 | 36.87 | 756 | 1.06 | 0.20 | 41.4 |
| 4/27/2015 17:27:25 | 39.70 | 37.20 | 765 | 1.08 | 0.19 | 41.8 |
| 4/27/2015 17:27:25 | 40.03 | 37.53 | 757 | 1.07 | 0.19 | 41.4 |
| 4/27/2015 17:27:26 | 40.35 | 37.85 | 757 | 1.07 | 0.19 | 41.4 |
| 4/27/2015 17:27:26 | 40.68 | 38.18 | 751 | 1.08 | 0.19 | 41.1 |
| 4/27/2015 17:27:26 | 41.01 | 38.51 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:27:27 | 41.34 | 38.84 | 747 | 1.05 | 0.19 | 40.8 |
| 4/27/2015 17:27:27 | 41.67 | 39.17 | 747 | 1.06 | 0.19 | 40.8 |
| 4/27/2015 17:27:28 | 41.99 | 39.49 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 17:27:29 | 42.32 | 39.82 | 742 | 1.07 | 0.19 | 40.6 |
| 4/27/2015 17:27:29 | 42.65 | 40.15 | 761 | 1.07 | 0.19 | 41.6 |
| 4/27/2015 17:27:30 | 42.98 | 40.48 | 749 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:27:30 | 43.31 | 40.81 | 749 | 1.06 | 0.19 | 40.9 |
| 4/27/2015 17:27:31 | 43.64 | 41.14 | 749 | 1.06 | 0.19 | 40.9 |
| 4/27/2015 17:27:31 | 43.96 | 41.46 | 752 | 1.05 | 0.19 | 41.1 |
| 4/27/2015 17:27:32 | 44.29 | 41.79 | 752 | 1.05 | 0.19 | 41.1 |
| 4/27/2015 17:27:32 | 44.62 | 42.12 | 749 | 1.08 | 0.19 | 40.9 |
| 4/27/2015 17:27:32 | 44.95 | 42.45 | 749 | 1.06 | 0.19 | 40.9 |
| 4/27/2015 17:27:33 | 45.28 | 42.78 | 741 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:27:33 | 45.60 | 43.10 | 749 | 1.06 | 0.19 | 40.9 |
| 4/27/2015 17:27:34 | 45.93 | 43.43 | 743 | 1.05 | 0.19 | 40.6 |
| 4/27/2015 17:27:34 | 46.26 | 43.76 | 737 | 1.06 | 0.19 | 40.3 |
| 4/27/2015 17:27:35 | 46.59 | 44.09 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:27:35 | 46.92 | 44.42 | 740 | 1.07 | 0.19 | 40.5 |
| 4/27/2015 17:27:36 | 47.24 | 44.74 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:27:36 | 47.57 | 45.07 | 737 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:27:37 | 47.90 | 45.40 | 727 | 1.09 | 0.19 | 39.8 |
| 4/27/2015 17:27:43 | 48.23 | 45.73 | 0 | 1.07 | 0.82 | 0.0 |
| 4/27/2015 17:27:45 | 48.56 | 46.06 | 97 | 1.08 | 0.80 | 5.3 |
| 4/27/2015 17:27:46 | 48.88 | 46.38 | 243 | 1.10 | 0.91 | 13.3 |
| 4/27/2015 17:27:47 | 49.21 | 46.71 | 299 | 1.09 | 0.91 | 16.4 |
| 4/27/2015 17:27:47 | 49.54 | 47.04 | 385 | 1.09 | 0.91 | 21.0 |
| 4/27/2015 17:27:48 | 49.87 | 47.37 | 408 | 1.11 | 0.91 | 22.3 |
| 4/27/2015 17:27:54 | 50.20 | 47.70 | 20 | 1.08 | 1.09 | 1.1 |
| 4/27/2015 17:28:00 | 50.53 | 48.03 | 52 | 1.02 | 1.04 | 2.8 |
| 4/27/2015 17:28:07 | 50.85 | 48.35 | 43 | 1.06 | 0.93 | 2.4 |
| 4/27/2015 17:28:12 | 51.18 | 48.68 | 98 | 1.11 | 1.10 | 5.4 |
| 4/27/2015 17:28:17 | 51.51 | 49.01 | 50 | 1.07 | 0.99 | 2.7 |
| 4/27/2015 17:28:25 | 51.84 | 49.34 | 40 | 1.10 | 1.02 | 2.2 |
| 4/27/2015 17:28:26 | 51.90 | 49.40 | 41 | 1.16 | 0.90 | 2.2 |

## I67 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:25:46

**End Date:**
4/27/2015 17:30:04

**Operator Note:**
'2.5 2.5 a Auto Complete'

**Northing:**
364,500.68

**Easting:**
248,308.82

**Tide (feet):**
2.50



## Hole: I68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:27:16 | 32.81 | 30.31 | 1,156 | 0.29 | 0.31 | 63.2 |
| 4/27/2015 17:27:16 | 33.14 | 30.64 | 1,149 | 0.29 | 0.32 | 62.8 |
| 4/27/2015 17:27:17 | 33.46 | 30.96 | 1,149 | 0.29 | 0.32 | 62.8 |
| 4/27/2015 17:27:17 | 33.79 | 31.29 | 1,159 | 0.29 | 0.31 | 63.4 |
| 4/27/2015 17:27:17 | 34.12 | 31.62 | 1,159 | 0.29 | 0.31 | 63.4 |
| 4/27/2015 17:27:17 | 34.45 | 31.95 | 1,159 | 0.29 | 0.32 | 63.4 |
| 4/27/2015 17:27:18 | 34.78 | 32.28 | 1,156 | 0.29 | 0.32 | 63.2 |
| 4/27/2015 17:27:18 | 35.11 | 32.61 | 1,156 | 0.29 | 0.32 | 63.2 |
| 4/27/2015 17:27:18 | 35.43 | 32.93 | 1,156 | 0.29 | 0.32 | 63.2 |
| 4/27/2015 17:27:19 | 35.76 | 33.26 | 1,156 | 0.29 | 0.32 | 63.2 |
| 4/27/2015 17:27:19 | 36.09 | 33.59 | 1,150 | 0.29 | 0.31 | 62.9 |
| 4/27/2015 17:27:19 | 36.42 | 33.92 | 1,151 | 0.29 | 0.32 | 62.9 |
| 4/27/2015 17:27:20 | 36.75 | 34.25 | 1,151 | 0.29 | 0.32 | 62.9 |
| 4/27/2015 17:27:20 | 37.07 | 34.57 | 1,152 | 0.29 | 0.32 | 63.0 |
| 4/27/2015 17:27:20 | 37.40 | 34.90 | 1,152 | 0.29 | 0.32 | 63.0 |
| 4/27/2015 17:27:20 | 37.73 | 35.23 | 1,145 | 0.29 | 0.31 | 62.6 |
| 4/27/2015 17:27:21 | 38.06 | 35.56 | 1,145 | 0.29 | 0.32 | 62.6 |
| 4/27/2015 17:27:21 | 38.39 | 35.89 | 1,145 | 0.29 | 0.32 | 62.6 |
| 4/27/2015 17:27:21 | 38.71 | 36.21 | 1,149 | 0.29 | 0.31 | 62.8 |
| 4/27/2015 17:27:22 | 39.04 | 36.54 | 1,149 | 0.29 | 0.31 | 62.8 |
| 4/27/2015 17:27:22 | 39.37 | 36.87 | 1,145 | 0.29 | 0.33 | 62.6 |
| 4/27/2015 17:27:22 | 39.70 | 37.20 | 1,141 | 0.29 | 0.30 | 62.4 |
| 4/27/2015 17:27:23 | 40.03 | 37.53 | 1,141 | 0.29 | 0.30 | 62.4 |
| 4/27/2015 17:27:23 | 40.35 | 37.85 | 1,153 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:23 | 40.68 | 38.18 | 1,153 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:23 | 41.01 | 38.51 | 1,151 | 0.29 | 0.32 | 62.9 |
| 4/27/2015 17:27:24 | 41.34 | 38.84 | 1,155 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:24 | 41.67 | 39.17 | 1,155 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:25 | 41.99 | 39.49 | 1,155 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:25 | 42.32 | 39.82 | 1,155 | 0.29 | 0.32 | 63.1 |
| 4/27/2015 17:27:25 | 42.65 | 40.15 | 1,134 | 0.29 | 0.25 | 62.0 |
| 4/27/2015 17:27:26 | 42.98 | 40.48 | 1,134 | 0.28 | 0.31 | 62.0 |
| 4/27/2015 17:27:26 | 43.31 | 40.81 | 1,134 | 0.28 | 0.31 | 62.0 |
| 4/27/2015 17:27:26 | 43.64 | 41.14 | 1,150 | 0.29 | 0.32 | 62.9 |
| 4/27/2015 17:27:27 | 43.96 | 41.46 | 1,150 | 0.29 | 0.32 | 62.9 |
| 4/27/2015 17:27:27 | 44.29 | 41.79 | 1,138 | 0.28 | 0.33 | 62.2 |
| 4/27/2015 17:27:27 | 44.62 | 42.12 | 1,147 | 0.29 | 0.32 | 62.7 |
| 4/27/2015 17:27:28 | 44.95 | 42.45 | 1,147 | 0.29 | 0.32 | 62.7 |
| 4/27/2015 17:27:28 | 45.28 | 42.78 | 1,143 | 0.29 | 0.31 | 62.5 |
| 4/27/2015 17:27:28 | 45.60 | 43.10 | 1,143 | 0.29 | 0.31 | 62.5 |
| 4/27/2015 17:27:28 | 45.93 | 43.43 | 1,158 | 0.29 | 0.32 | 63.3 |
| 4/27/2015 17:27:29 | 46.26 | 43.76 | 1,139 | 0.29 | 0.31 | 62.3 |
| 4/27/2015 17:27:29 | 46.59 | 44.09 | 1,139 | 0.29 | 0.31 | 62.3 |
| 4/27/2015 17:27:29 | 46.92 | 44.42 | 1,142 | 0.29 | 0.32 | 62.4 |
| 4/27/2015 17:27:30 | 47.24 | 44.74 | 1,142 | 0.29 | 0.32 | 62.4 |
| 4/27/2015 17:27:30 | 47.57 | 45.07 | 1,136 | 0.28 | 0.32 | 62.1 |
| 4/27/2015 17:27:30 | 47.90 | 45.40 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 17:27:31 | 48.23 | 45.73 | 1,136 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 17:27:31 | 48.56 | 46.06 | 1,127 | 0.28 | 0.34 | 61.6 |
| 4/27/2015 17:27:31 | 48.88 | 46.38 | 1,098 | 0.51 | 0.39 | 60.0 |
| 4/27/2015 17:27:42 | 49.21 | 46.71 | 76 | 3.58 | 0.38 | 4.1 |
| 4/27/2015 17:27:43 | 49.54 | 47.04 | 160 | 3.81 | 0.40 | 8.8 |
| 4/27/2015 17:27:54 | 49.87 | 47.37 | 55 | 3.46 | 0.40 | 3.0 |
| 4/27/2015 17:28:04 | 50.20 | 47.70 | 39 | 2.61 | 0.41 | 2.1 |
| 4/27/2015 17:28:13 | 50.53 | 48.03 | 45 | 3.05 | 0.41 | 2.5 |
| 4/27/2015 17:28:19 | 50.85 | 48.35 | 42 | 2.77 | 0.41 | 2.3 |
| 4/27/2015 17:28:26 | 51.18 | 48.68 | 54 | 3.41 | 0.40 | 3.0 |
| 4/27/2015 17:28:32 | 51.48 | 48.98 | 49 | 3.88 | 0.40 | 2.7 |

## I68 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:25:10

**End Date:**
4/27/2015 17:31:07

**Operator Note:**
'2.5 2.3 b Rock'

**Northing:**
364,548.12

**Easting:**
248,366.91

**Tide (feet):**
2.50



## Hole: I69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:26:52 | 32.81 | 30.31 | 1,106 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 17:26:53 | 33.14 | 30.64 | 1,113 | 1.59 | 0.28 | 60.9 |
| 4/27/2015 17:26:53 | 33.46 | 30.96 | 1,113 | 1.59 | 0.28 | 60.9 |
| 4/27/2015 17:26:53 | 33.79 | 31.29 | 1,107 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 17:26:54 | 34.12 | 31.62 | 1,107 | 1.57 | 0.29 | 60.5 |
| 4/27/2015 17:26:54 | 34.45 | 31.95 | 1,107 | 1.57 | 0.29 | 60.5 |
| 4/27/2015 17:26:54 | 34.78 | 32.28 | 1,101 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 17:26:55 | 35.11 | 32.61 | 1,101 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 17:26:55 | 35.43 | 32.93 | 1,101 | 1.58 | 0.29 | 60.2 |
| 4/27/2015 17:26:55 | 35.76 | 33.26 | 1,101 | 1.58 | 0.29 | 60.2 |
| 4/27/2015 17:26:56 | 36.09 | 33.59 | 1,101 | 1.58 | 0.29 | 60.2 |
| 4/27/2015 17:26:56 | 36.42 | 33.92 | 1,101 | 1.59 | 0.29 | 60.2 |
| 4/27/2015 17:26:56 | 36.75 | 34.25 | 1,098 | 1.60 | 0.30 | 60.0 |
| 4/27/2015 17:26:57 | 37.07 | 34.57 | 1,098 | 1.60 | 0.30 | 60.0 |
| 4/27/2015 17:26:57 | 37.40 | 34.90 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 17:26:58 | 37.73 | 35.23 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 17:26:58 | 38.06 | 35.56 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 17:26:58 | 38.39 | 35.89 | 1,075 | 1.60 | 0.29 | 58.8 |
| 4/27/2015 17:26:59 | 38.71 | 36.21 | 1,075 | 1.60 | 0.29 | 58.8 |
| 4/27/2015 17:26:59 | 39.04 | 36.54 | 1,075 | 1.62 | 0.29 | 58.8 |
| 4/27/2015 17:26:59 | 39.37 | 36.87 | 1,091 | 1.62 | 0.29 | 59.7 |
| 4/27/2015 17:27:00 | 39.70 | 37.20 | 1,091 | 1.62 | 0.29 | 59.7 |
| 4/27/2015 17:27:00 | 40.03 | 37.53 | 1,092 | 1.59 | 0.29 | 59.7 |
| 4/27/2015 17:27:00 | 40.35 | 37.85 | 1,092 | 1.59 | 0.29 | 59.7 |
| 4/27/2015 17:27:00 | 40.68 | 38.18 | 1,083 | 1.60 | 0.29 | 59.2 |
| 4/27/2015 17:27:01 | 41.01 | 38.51 | 1,085 | 1.61 | 0.29 | 59.4 |
| 4/27/2015 17:27:01 | 41.34 | 38.84 | 1,085 | 1.61 | 0.29 | 59.4 |
| 4/27/2015 17:27:01 | 41.67 | 39.17 | 1,112 | 1.59 | 0.29 | 60.8 |
| 4/27/2015 17:27:02 | 41.99 | 39.49 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:27:02 | 42.32 | 39.82 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:27:02 | 42.65 | 40.15 | 1,093 | 1.59 | 0.29 | 59.8 |
| 4/27/2015 17:27:03 | 42.98 | 40.48 | 1,093 | 1.59 | 0.29 | 59.8 |
| 4/27/2015 17:27:03 | 43.31 | 40.81 | 1,093 | 1.60 | 0.29 | 59.8 |
| 4/27/2015 17:27:03 | 43.64 | 41.14 | 1,096 | 1.61 | 0.29 | 59.9 |
| 4/27/2015 17:27:04 | 43.96 | 41.46 | 1,096 | 1.61 | 0.29 | 59.9 |
| 4/27/2015 17:27:04 | 44.29 | 41.79 | 1,093 | 1.62 | 0.29 | 59.7 |
| 4/27/2015 17:27:04 | 44.62 | 42.12 | 1,093 | 1.59 | 0.29 | 59.7 |
| 4/27/2015 17:27:05 | 44.95 | 42.45 | 1,093 | 1.59 | 0.29 | 59.7 |
| 4/27/2015 17:27:05 | 45.28 | 42.78 | 1,086 | 1.59 | 0.29 | 59.4 |
| 4/27/2015 17:27:05 | 45.60 | 43.10 | 1,086 | 1.59 | 0.29 | 59.4 |
| 4/27/2015 17:27:05 | 45.93 | 43.43 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:27:06 | 46.26 | 43.76 | 1,093 | 1.62 | 0.29 | 59.8 |
| 4/27/2015 17:27:06 | 46.59 | 44.09 | 1,093 | 1.62 | 0.29 | 59.8 |
| 4/27/2015 17:27:06 | 46.92 | 44.42 | 1,093 | 1.60 | 0.29 | 59.8 |
| 4/27/2015 17:27:07 | 47.24 | 44.74 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:27:08 | 47.57 | 45.07 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:27:22 | 47.90 | 45.40 | 0 | 1.67 | 1.29 | 0.0 |
| 4/27/2015 17:27:27 | 48.23 | 45.73 | 75 | 1.66 | 1.24 | 4.1 |
| 4/27/2015 17:27:32 | 48.56 | 46.06 | 77 | 1.64 | 1.33 | 4.2 |
| 4/27/2015 17:27:36 | 48.88 | 46.38 | 79 | 1.64 | 1.26 | 4.3 |
| 4/27/2015 17:27:41 | 49.21 | 46.71 | 67 | 1.65 | 1.22 | 3.6 |
| 4/27/2015 17:27:45 | 49.54 | 47.04 | 67 | 1.66 | 1.21 | 3.7 |
| 4/27/2015 17:27:50 | 49.87 | 47.37 | 90 | 1.64 | 1.26 | 4.9 |
| 4/27/2015 17:27:53 | 50.20 | 47.70 | 92 | 1.63 | 1.35 | 5.1 |
| 4/27/2015 17:27:57 | 50.53 | 48.03 | 81 | 1.68 | 1.29 | 4.4 |

## I69 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:25:53

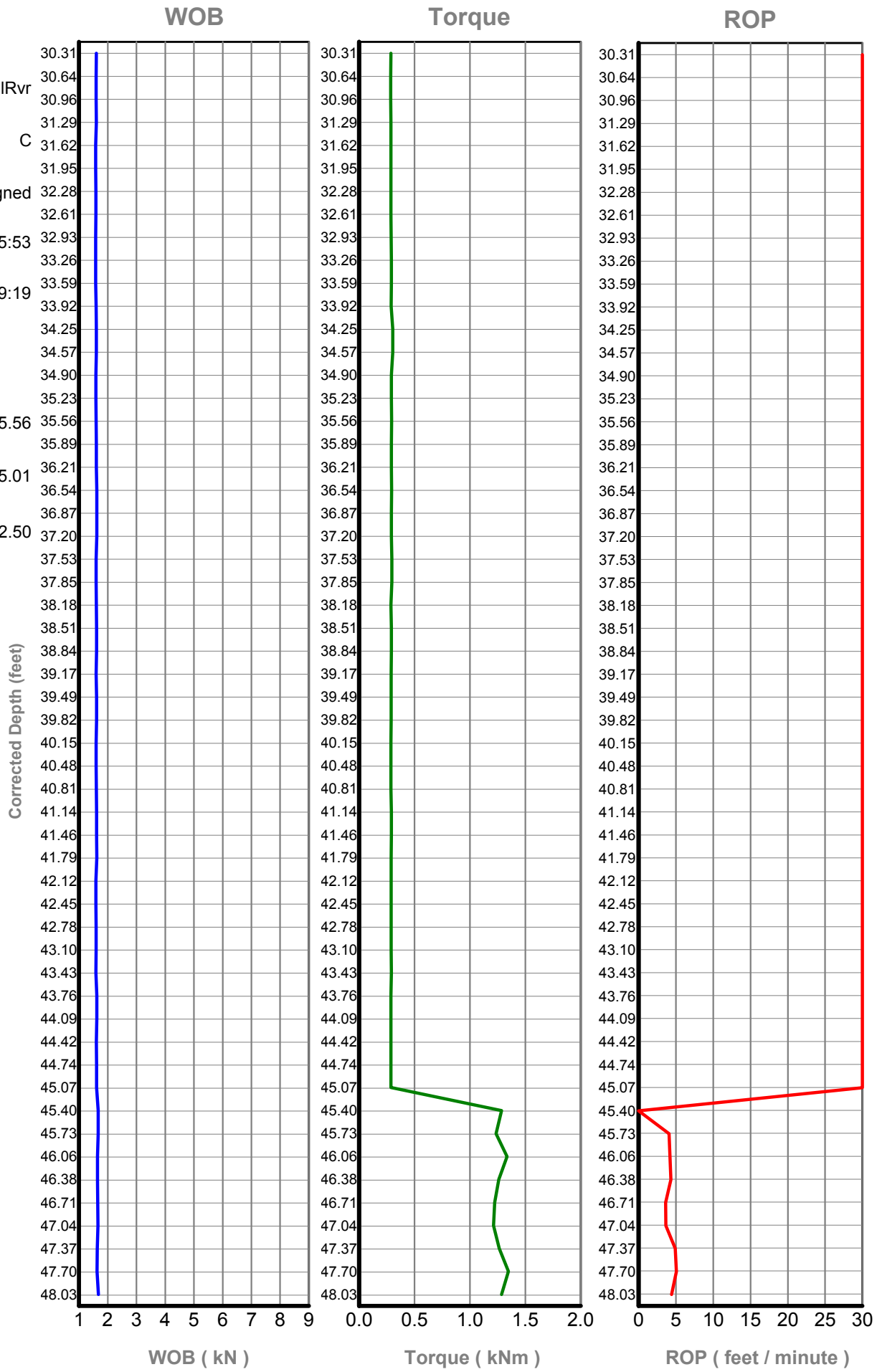
**End Date:**
4/27/2015 17:29:19

**Operator Note:**
'2.5 2.3 C Auto Complete'

**Northing:**
364,595.56

**Easting:**
248,425.01

**Tide (feet):**
2.50



## Hole: I7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:18:51 | 35.11 | 30.31 | 739 | 1.05 | 0.77 | 40.4 |
| 4/29/2015 0:18:51 | 35.43 | 30.63 | 747 | 1.07 | 0.76 | 40.8 |
| 4/29/2015 0:18:52 | 35.76 | 30.96 | 743 | 1.07 | 0.77 | 40.6 |
| 4/29/2015 0:18:52 | 36.09 | 31.29 | 733 | 1.05 | 0.77 | 40.1 |
| 4/29/2015 0:18:53 | 36.42 | 31.62 | 734 | 1.06 | 0.80 | 40.1 |
| 4/29/2015 0:18:53 | 36.75 | 31.95 | 740 | 1.05 | 0.88 | 40.5 |
| 4/29/2015 0:18:54 | 37.07 | 32.27 | 747 | 1.06 | 0.92 | 40.9 |
| 4/29/2015 0:18:54 | 37.40 | 32.60 | 745 | 1.06 | 0.94 | 40.7 |
| 4/29/2015 0:18:55 | 37.73 | 32.93 | 745 | 1.05 | 0.94 | 40.7 |
| 4/29/2015 0:18:55 | 38.06 | 33.26 | 746 | 1.06 | 0.94 | 40.8 |
| 4/29/2015 0:18:56 | 38.39 | 33.59 | 743 | 1.07 | 0.95 | 40.6 |
| 4/29/2015 0:18:56 | 38.71 | 33.91 | 743 | 1.07 | 0.95 | 40.6 |
| 4/29/2015 0:18:56 | 39.04 | 34.24 | 740 | 1.07 | 0.94 | 40.5 |
| 4/29/2015 0:18:57 | 39.37 | 34.57 | 735 | 1.07 | 0.94 | 40.2 |
| 4/29/2015 0:18:57 | 39.70 | 34.90 | 734 | 1.07 | 0.94 | 40.1 |
| 4/29/2015 0:18:58 | 40.03 | 35.23 | 740 | 1.08 | 0.94 | 40.5 |
| 4/29/2015 0:18:59 | 40.35 | 35.55 | 740 | 1.07 | 0.93 | 40.5 |
| 4/29/2015 0:18:59 | 40.68 | 35.88 | 738 | 1.07 | 0.94 | 40.3 |
| 4/29/2015 0:19:00 | 41.01 | 36.21 | 738 | 1.07 | 0.94 | 40.3 |
| 4/29/2015 0:19:00 | 41.34 | 36.54 | 744 | 1.08 | 0.93 | 40.7 |
| 4/29/2015 0:19:01 | 41.67 | 36.87 | 724 | 1.07 | 0.93 | 39.6 |
| 4/29/2015 0:19:01 | 41.99 | 37.19 | 728 | 1.08 | 0.88 | 39.8 |
| 4/29/2015 0:19:02 | 42.32 | 37.52 | 735 | 1.07 | 0.76 | 40.2 |
| 4/29/2015 0:19:02 | 42.65 | 37.85 | 735 | 1.07 | 0.80 | 40.2 |
| 4/29/2015 0:19:03 | 42.98 | 38.18 | 733 | 1.07 | 0.77 | 40.1 |
| 4/29/2015 0:19:03 | 43.31 | 38.51 | 739 | 1.07 | 0.78 | 40.4 |
| 4/29/2015 0:19:04 | 43.64 | 38.84 | 739 | 1.07 | 0.78 | 40.4 |
| 4/29/2015 0:19:04 | 43.96 | 39.16 | 734 | 1.07 | 0.78 | 40.2 |
| 4/29/2015 0:19:04 | 44.29 | 39.49 | 734 | 1.07 | 0.78 | 40.2 |
| 4/29/2015 0:19:05 | 44.62 | 39.82 | 732 | 1.08 | 0.19 | 40.0 |
| 4/29/2015 0:19:05 | 44.95 | 40.15 | 730 | 1.07 | 0.19 | 39.9 |
| 4/29/2015 0:19:06 | 45.28 | 40.48 | 738 | 1.07 | 0.18 | 40.4 |
| 4/29/2015 0:19:06 | 45.60 | 40.80 | 722 | 1.07 | 0.19 | 39.5 |
| 4/29/2015 0:19:07 | 45.93 | 41.13 | 722 | 1.07 | 0.19 | 39.5 |
| 4/29/2015 0:19:07 | 46.26 | 41.46 | 726 | 1.07 | 0.19 | 39.7 |
| 4/29/2015 0:19:08 | 46.59 | 41.79 | 733 | 1.08 | 0.19 | 40.1 |
| 4/29/2015 0:19:08 | 46.92 | 42.12 | 733 | 1.07 | 0.19 | 40.1 |
| 4/29/2015 0:19:09 | 47.24 | 42.44 | 729 | 1.07 | 0.19 | 39.8 |
| 4/29/2015 0:19:10 | 47.57 | 42.77 | 738 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 0:19:10 | 47.90 | 43.10 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 0:19:11 | 48.23 | 43.43 | 733 | 1.07 | 0.19 | 40.1 |
| 4/29/2015 0:19:11 | 48.56 | 43.76 | 733 | 1.07 | 0.19 | 40.1 |
| 4/29/2015 0:19:11 | 48.88 | 44.08 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 0:19:12 | 49.21 | 44.41 | 729 | 1.07 | 0.19 | 39.9 |
| 4/29/2015 0:19:12 | 49.54 | 44.74 | 736 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 0:19:13 | 49.87 | 45.07 | 738 | 1.08 | 0.19 | 40.4 |
| 4/29/2015 0:19:13 | 50.20 | 45.40 | 735 | 1.07 | 0.19 | 40.2 |
| 4/29/2015 0:19:14 | 50.53 | 45.73 | 735 | 1.07 | 0.19 | 40.2 |
| 4/29/2015 0:19:14 | 50.85 | 46.05 | 743 | 1.06 | 0.19 | 40.6 |
| 4/29/2015 0:19:15 | 51.18 | 46.38 | 739 | 1.07 | 0.19 | 40.4 |
| 4/29/2015 0:19:15 | 51.51 | 46.71 | 731 | 1.10 | 0.19 | 40.0 |
| 4/29/2015 0:19:29 | 51.84 | 47.04 | 46 | 1.13 | 0.99 | 2.5 |
| 4/29/2015 0:19:31 | 52.17 | 47.37 | 168 | 1.11 | 1.07 | 9.2 |
| 4/29/2015 0:19:38 | 52.49 | 47.69 | 9 | 1.17 | 1.25 | 0.5 |
| 4/29/2015 0:19:46 | 52.82 | 48.02 | 59 | 1.07 | 0.93 | 3.2 |
| 4/29/2015 0:19:53 | 53.15 | 48.35 | 49 | 1.10 | 1.22 | 2.7 |
| 4/29/2015 0:19:56 | 53.48 | 48.68 | 119 | 1.11 | 1.47 | 6.5 |
| 4/29/2015 0:20:00 | 53.81 | 49.01 | 45 | 1.97 | 1.58 | 2.4 |
| 4/29/2015 0:20:02 | 54.13 | 49.33 | 207 | 0.96 | 1.29 | 11.3 |
| 4/29/2015 0:20:36 | 54.46 | 49.66 | 0 | 1.17 | 0.96 | 0.0 |
| 4/29/2015 0:20:46 | 54.79 | 49.99 | 112 | 1.11 | 1.43 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:20:52 | 55.12 | 50.32 | 38 | 1.13 | 1.45 | 2.1 |
| 4/29/2015 | 0:20:59 | 55.45 | 50.65 | 64 | 1.12 | 1.10 | 3.5 |
| 4/29/2015 | 0:21:01 | 55.77 | 50.97 | 133 | 1.10 | 1.32 | 7.3 |
| 4/29/2015 | 0:21:04 | 56.10 | 51.30 | 182 | 1.12 | 1.19 | 10.0 |
| 4/29/2015 | 0:21:06 | 56.43 | 51.63 | 144 | 1.15 | 1.39 | 7.9 |
| 4/29/2015 | 0:21:09 | 56.76 | 51.96 | 120 | 1.15 | 1.64 | 6.6 |
| 4/29/2015 | 0:21:15 | 57.09 | 52.29 | 43 | 1.32 | 1.82 | 2.4 |
| 4/29/2015 | 0:21:19 | 57.41 | 52.61 | 64 | 1.05 | 1.05 | 3.5 |
| 4/29/2015 | 0:21:38 | 57.74 | 52.94 | 46 | 0.98 | 1.00 | 2.5 |
| 4/29/2015 | 0:21:47 | 58.07 | 53.27 | 40 | 1.11 | 1.05 | 2.2 |
| 4/29/2015 | 0:21:57 | 58.40 | 53.60 | 38 | 1.07 | 0.93 | 2.1 |
| 4/29/2015 | 0:22:02 | 58.60 | 53.80 | 40 | 1.15 | 1.23 | 2.2 |

## I7 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:15:43

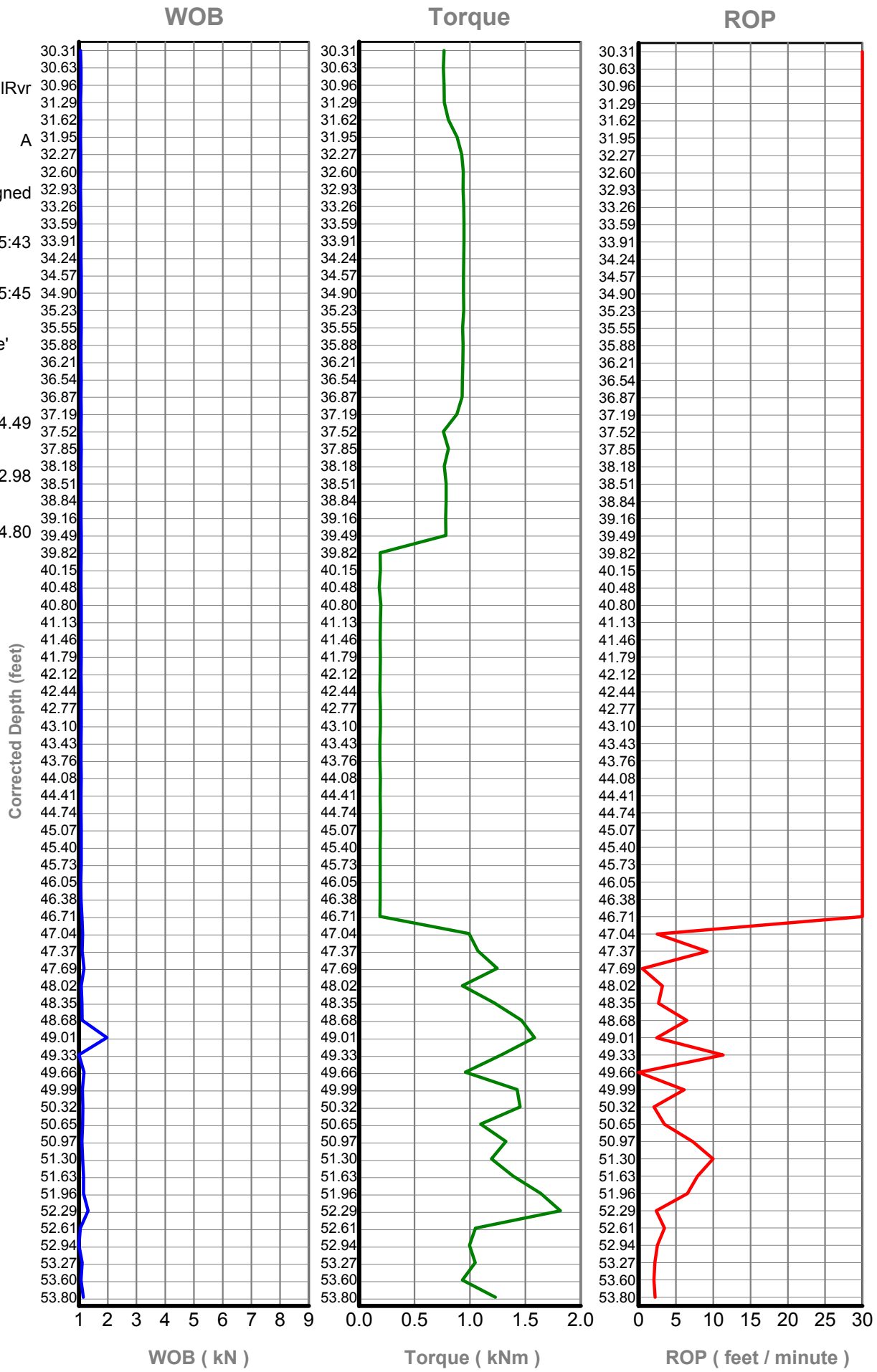
**End Date:**
4/29/2015 0:35:45

**Operator Note:**
'4.8 4.8 b Auto Complete'

**Northing:**
364,644.49

**Easting:**
247,892.98

**Tide (feet):**
4.80



## Hole: I70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:08:20 | 30.84 | 30.24 | 707 | 1.09 | 0.20 | 38.7 |
| 4/27/2015 15:08:21 | 31.17 | 30.57 | 710 | 1.09 | 0.20 | 38.8 |
| 4/27/2015 15:08:21 | 31.50 | 30.90 | 714 | 1.10 | 0.20 | 39.0 |
| 4/27/2015 15:08:22 | 31.82 | 31.22 | 698 | 1.09 | 0.20 | 38.2 |
| 4/27/2015 15:08:22 | 32.15 | 31.55 | 709 | 1.09 | 0.20 | 38.8 |
| 4/27/2015 15:08:23 | 32.48 | 31.88 | 700 | 1.10 | 0.20 | 38.3 |
| 4/27/2015 15:08:23 | 32.81 | 32.21 | 697 | 1.10 | 0.20 | 38.1 |
| 4/27/2015 15:08:24 | 33.14 | 32.54 | 694 | 1.15 | 0.24 | 37.9 |
| 4/27/2015 15:08:24 | 33.46 | 32.86 | 692 | 1.10 | 0.20 | 37.9 |
| 4/27/2015 15:08:25 | 33.79 | 33.19 | 703 | 1.10 | 0.19 | 38.4 |
| 4/27/2015 15:08:25 | 34.12 | 33.52 | 697 | 1.11 | 0.20 | 38.1 |
| 4/27/2015 15:08:26 | 34.45 | 33.85 | 682 | 1.09 | 0.20 | 37.3 |
| 4/27/2015 15:08:26 | 34.78 | 34.18 | 682 | 1.10 | 0.22 | 37.3 |
| 4/27/2015 15:08:27 | 35.11 | 34.51 | 693 | 1.09 | 0.20 | 37.9 |
| 4/27/2015 15:08:27 | 35.43 | 34.83 | 700 | 1.10 | 0.20 | 38.3 |
| 4/27/2015 15:08:28 | 35.76 | 35.16 | 699 | 1.09 | 0.20 | 38.2 |
| 4/27/2015 15:08:28 | 36.09 | 35.49 | 704 | 1.10 | 0.20 | 38.5 |
| 4/27/2015 15:08:29 | 36.42 | 35.82 | 722 | 1.10 | 0.20 | 39.5 |
| 4/27/2015 15:08:30 | 36.75 | 36.15 | 703 | 1.09 | 0.20 | 38.4 |
| 4/27/2015 15:08:30 | 37.07 | 36.47 | 703 | 1.11 | 0.20 | 38.4 |
| 4/27/2015 15:08:31 | 37.40 | 36.80 | 706 | 1.09 | 0.20 | 38.6 |
| 4/27/2015 15:08:31 | 37.73 | 37.13 | 706 | 1.09 | 0.20 | 38.6 |
| 4/27/2015 15:08:32 | 38.06 | 37.46 | 713 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 15:08:32 | 38.39 | 37.79 | 709 | 1.08 | 0.20 | 38.7 |
| 4/27/2015 15:08:33 | 38.71 | 38.11 | 723 | 1.09 | 0.22 | 39.5 |
| 4/27/2015 15:08:33 | 39.04 | 38.44 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:08:34 | 39.37 | 38.77 | 726 | 1.10 | 0.20 | 39.7 |
| 4/27/2015 15:08:34 | 39.70 | 39.10 | 723 | 1.09 | 0.20 | 39.5 |
| 4/27/2015 15:08:35 | 40.03 | 39.43 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:08:35 | 40.35 | 39.75 | 720 | 1.09 | 0.20 | 39.4 |
| 4/27/2015 15:08:35 | 40.68 | 40.08 | 724 | 1.09 | 0.20 | 39.6 |
| 4/27/2015 15:08:36 | 41.01 | 40.41 | 714 | 1.09 | 0.20 | 39.0 |
| 4/27/2015 15:08:36 | 41.34 | 40.74 | 705 | 1.10 | 0.20 | 38.6 |
| 4/27/2015 15:08:37 | 41.67 | 41.07 | 701 | 1.08 | 0.20 | 38.4 |
| 4/27/2015 15:08:37 | 41.99 | 41.39 | 708 | 1.09 | 0.20 | 38.7 |
| 4/27/2015 15:08:38 | 42.32 | 41.72 | 708 | 1.08 | 0.20 | 38.7 |
| 4/27/2015 15:08:38 | 42.65 | 42.05 | 711 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 15:08:39 | 42.98 | 42.38 | 713 | 1.11 | 0.20 | 39.0 |
| 4/27/2015 15:08:39 | 43.31 | 42.71 | 724 | 1.09 | 0.20 | 39.6 |
| 4/27/2015 15:08:40 | 43.64 | 43.04 | 717 | 1.09 | 0.20 | 39.2 |
| 4/27/2015 15:08:41 | 43.96 | 43.36 | 715 | 1.08 | 0.20 | 39.1 |
| 4/27/2015 15:08:41 | 44.29 | 43.69 | 711 | 1.09 | 0.20 | 38.9 |
| 4/27/2015 15:08:42 | 44.62 | 44.02 | 719 | 1.09 | 0.20 | 39.3 |
| 4/27/2015 15:08:42 | 44.95 | 44.35 | 711 | 1.08 | 0.20 | 38.9 |
| 4/27/2015 15:08:43 | 45.28 | 44.68 | 700 | 1.11 | 0.20 | 38.3 |
| 4/27/2015 15:08:59 | 45.60 | 45.00 | 42 | 0.98 | 0.98 | 2.3 |
| 4/27/2015 15:08:59 | 45.93 | 45.33 | 115 | 1.15 | 1.00 | 6.3 |
| 4/27/2015 15:09:08 | 46.26 | 45.66 | 17 | 1.07 | 0.99 | 0.9 |
| 4/27/2015 15:09:11 | 46.59 | 45.99 | 105 | 1.02 | 0.93 | 5.8 |
| 4/27/2015 15:09:12 | 46.92 | 46.32 | 207 | 1.08 | 1.08 | 11.3 |
| 4/27/2015 15:09:13 | 47.24 | 46.64 | 247 | 1.07 | 1.08 | 13.5 |
| 4/27/2015 15:09:14 | 47.57 | 46.97 | 391 | 1.03 | 1.05 | 21.4 |
| 4/27/2015 15:09:14 | 47.90 | 47.30 | 411 | 1.02 | 1.12 | 22.5 |
| 4/27/2015 15:09:15 | 48.23 | 47.63 | 463 | 1.09 | 1.05 | 25.3 |
| 4/27/2015 15:09:17 | 48.56 | 47.96 | 212 | 1.09 | 1.32 | 11.6 |
| 4/27/2015 15:09:18 | 48.88 | 48.28 | 197 | 0.59 | 1.32 | 10.8 |
| 4/27/2015 15:09:20 | 49.21 | 48.61 | 274 | 1.13 | 1.02 | 15.0 |
| 4/27/2015 15:09:21 | 49.54 | 48.94 | 260 | 1.06 | 1.44 | 14.2 |
| 4/27/2015 15:09:23 | 49.87 | 49.27 | 277 | 1.10 | 1.29 | 15.1 |
| 4/27/2015 15:09:24 | 50.20 | 49.60 | 280 | 1.08 | 1.30 | 15.3 |
| 4/27/2015 15:09:25 | 50.53 | 49.93 | 364 | 0.54 | 1.01 | 19.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:09:26 | 50.85 | 50.25 | 297 | 1.10 | 1.23 | 16.2 |
| 4/27/2015 | 15:09:29 | 51.18 | 50.58 | 160 | 1.07 | 1.22 | 8.7 |
| 4/27/2015 | 15:09:30 | 51.51 | 50.91 | 154 | 1.05 | 0.94 | 8.4 |
| 4/27/2015 | 15:09:32 | 51.84 | 51.24 | 212 | 1.04 | 1.06 | 11.6 |
| 4/27/2015 | 15:09:34 | 52.17 | 51.57 | 191 | 1.05 | 0.97 | 10.5 |
| 4/27/2015 | 15:09:39 | 52.49 | 51.89 | 87 | 1.05 | 1.28 | 4.8 |
| 4/27/2015 | 15:09:43 | 52.82 | 52.22 | 75 | 1.15 | 1.09 | 4.1 |
| 4/27/2015 | 15:09:48 | 53.15 | 52.55 | 81 | 1.11 | 1.15 | 4.4 |
| 4/27/2015 | 15:09:53 | 53.48 | 52.88 | 75 | 1.02 | 1.19 | 4.1 |
| 4/27/2015 | 15:09:58 | 53.81 | 53.21 | 72 | 1.03 | 1.19 | 4.0 |
| 4/27/2015 | 15:10:02 | 54.13 | 53.53 | 79 | 1.07 | 1.22 | 4.3 |
| 4/27/2015 | 15:10:08 | 54.46 | 53.86 | 70 | 1.09 | 1.21 | 3.8 |
| 4/27/2015 | 15:10:12 | 54.79 | 54.19 | 67 | 1.12 | 1.27 | 3.7 |
| 4/27/2015 | 15:10:19 | 55.12 | 54.52 | 59 | 1.04 | 1.23 | 3.2 |
| 4/27/2015 | 15:10:24 | 55.45 | 54.85 | 62 | 1.03 | 1.31 | 3.4 |
| 4/27/2015 | 15:10:27 | 55.59 | 54.99 | 62 | 0.56 | 1.35 | 3.4 |

## I70 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:06:14

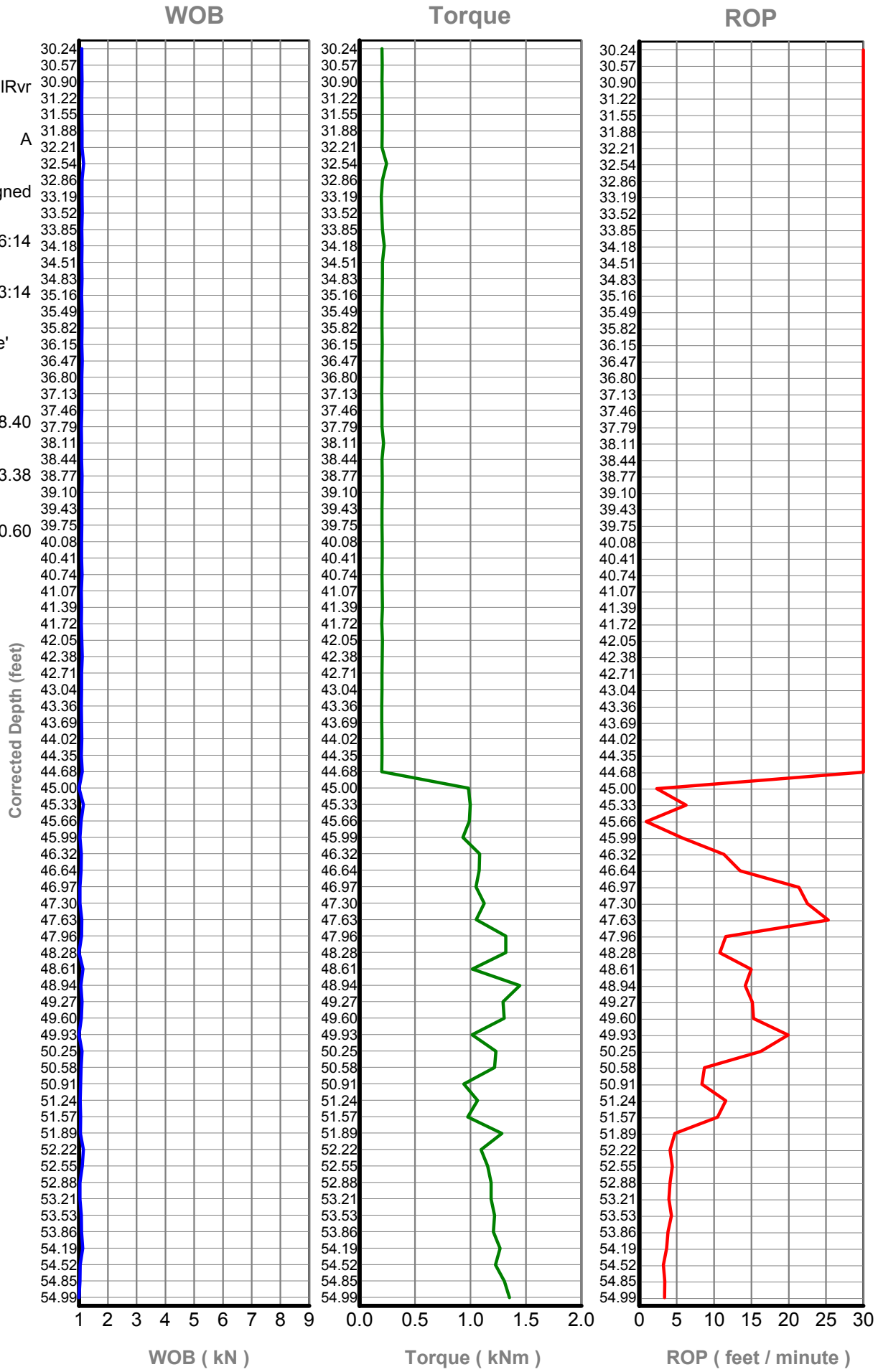
**End Date:**
4/27/2015 15:13:14

**Operator Note:**
'0.6 0.6 a Auto Complete'

**Northing:**
364,638.40

**Easting:**
248,483.38

**Tide (feet):**
0.60



## Hole: I71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:09:21 | 30.84 | 30.24 | 1,143 | 0.30 | 0.33 | 62.5 |
| 4/27/2015 15:09:22 | 31.17 | 30.57 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 15:09:22 | 31.50 | 30.90 | 1,133 | 0.28 | 0.32 | 62.0 |
| 4/27/2015 15:09:22 | 31.82 | 31.22 | 1,130 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 15:09:23 | 32.15 | 31.55 | 1,130 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 15:09:23 | 32.48 | 31.88 | 1,123 | 0.27 | 0.31 | 61.4 |
| 4/27/2015 15:09:23 | 32.81 | 32.21 | 1,120 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 15:09:24 | 33.14 | 32.54 | 1,120 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 15:09:24 | 33.46 | 32.86 | 1,121 | 0.31 | 0.32 | 61.3 |
| 4/27/2015 15:09:25 | 33.79 | 33.19 | 1,121 | 0.31 | 0.32 | 61.3 |
| 4/27/2015 15:09:25 | 34.12 | 33.52 | 1,109 | 0.28 | 0.31 | 60.6 |
| 4/27/2015 15:09:25 | 34.45 | 33.85 | 1,118 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 15:09:26 | 34.78 | 34.18 | 1,118 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 15:09:26 | 35.11 | 34.51 | 1,131 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 15:09:26 | 35.43 | 34.83 | 1,131 | 0.28 | 0.32 | 61.8 |
| 4/27/2015 15:09:26 | 35.76 | 35.16 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 15:09:27 | 36.09 | 35.49 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 15:09:27 | 36.42 | 35.82 | 1,117 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 15:09:27 | 36.75 | 36.15 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 15:09:28 | 37.07 | 36.47 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 15:09:28 | 37.40 | 36.80 | 1,106 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 15:09:28 | 37.73 | 37.13 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:09:29 | 38.06 | 37.46 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:09:29 | 38.39 | 37.79 | 1,110 | 0.28 | 0.34 | 60.7 |
| 4/27/2015 15:09:29 | 38.71 | 38.11 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 15:09:30 | 39.04 | 38.44 | 1,104 | 0.28 | 0.31 | 60.4 |
| 4/27/2015 15:09:30 | 39.37 | 38.77 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:09:30 | 39.70 | 39.10 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:09:30 | 40.03 | 39.43 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 15:09:31 | 40.35 | 39.75 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 15:09:31 | 40.68 | 40.08 | 1,112 | 0.27 | 0.31 | 60.8 |
| 4/27/2015 15:09:31 | 41.01 | 40.41 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 15:09:32 | 41.34 | 40.74 | 1,112 | 0.28 | 0.32 | 60.8 |
| 4/27/2015 15:09:32 | 41.67 | 41.07 | 1,142 | 0.28 | 0.31 | 62.5 |
| 4/27/2015 15:09:32 | 41.99 | 41.39 | 1,142 | 0.28 | 0.31 | 62.5 |
| 4/27/2015 15:09:33 | 42.32 | 41.72 | 1,142 | 0.28 | 0.31 | 62.5 |
| 4/27/2015 15:09:33 | 42.65 | 42.05 | 1,132 | 0.28 | 0.31 | 61.9 |
| 4/27/2015 15:09:34 | 42.98 | 42.38 | 1,132 | 0.28 | 0.31 | 61.9 |
| 4/27/2015 15:09:33 | 43.31 | 42.71 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 15:09:34 | 43.64 | 43.04 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 15:09:35 | 43.96 | 43.36 | 1,121 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 15:09:35 | 44.29 | 43.69 | 1,129 | 0.28 | 0.32 | 61.7 |
| 4/27/2015 15:09:35 | 44.62 | 44.02 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 15:09:36 | 44.95 | 44.35 | 1,096 | 0.28 | 0.32 | 59.9 |
| 4/27/2015 15:09:36 | 45.28 | 44.68 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 15:09:36 | 45.60 | 45.00 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 15:09:36 | 45.93 | 45.33 | 1,107 | 0.28 | 0.31 | 60.5 |
| 4/27/2015 15:09:37 | 46.26 | 45.66 | 1,138 | 0.27 | 0.32 | 62.2 |
| 4/27/2015 15:09:37 | 46.59 | 45.99 | 1,138 | 0.27 | 0.32 | 62.2 |
| 4/27/2015 15:09:38 | 46.92 | 46.32 | 980 | 0.26 | 0.41 | 53.6 |
| 4/27/2015 15:10:00 | 47.24 | 46.64 | 119 | 4.61 | 0.41 | 6.5 |
| 4/27/2015 15:10:02 | 47.57 | 46.97 | 251 | 5.29 | 0.37 | 13.7 |
| 4/27/2015 15:10:02 | 47.90 | 47.30 | 251 | 3.70 | 0.38 | 13.7 |
| 4/27/2015 15:10:10 | 48.23 | 47.63 | 56 | 5.55 | 0.39 | 3.0 |
| 4/27/2015 15:10:14 | 48.56 | 47.96 | 76 | 3.51 | 0.38 | 4.2 |
| 4/27/2015 15:10:15 | 48.88 | 48.28 | 236 | 4.44 | 0.37 | 12.9 |
| 4/27/2015 15:10:16 | 49.21 | 48.61 | 324 | 2.88 | 0.37 | 17.7 |
| 4/27/2015 15:10:16 | 49.54 | 48.94 | 416 | 2.71 | 0.37 | 22.7 |
| 4/27/2015 15:10:17 | 49.87 | 49.27 | 463 | 3.12 | 0.36 | 25.3 |
| 4/27/2015 15:10:18 | 50.20 | 49.60 | 495 | 3.16 | 0.37 | 27.1 |
| 4/27/2015 15:10:18 | 50.53 | 49.93 | 517 | 3.88 | 0.37 | 28.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:10:39 | 50.85 | 50.25 | 74 | 3.89 | 0.38 | 4.0 |
| 4/27/2015 | 15:10:40 | 51.18 | 50.58 | 137 | 3.25 | 0.38 | 7.5 |
| 4/27/2015 | 15:10:41 | 51.51 | 50.91 | 288 | 2.50 | 0.37 | 15.7 |
| 4/27/2015 | 15:10:42 | 51.84 | 51.24 | 399 | 2.25 | 0.36 | 21.8 |
| 4/27/2015 | 15:10:42 | 52.17 | 51.57 | 461 | 2.33 | 0.36 | 25.2 |
| 4/27/2015 | 15:10:43 | 52.49 | 51.89 | 520 | 3.19 | 0.37 | 28.5 |
| 4/27/2015 | 15:10:43 | 52.82 | 52.22 | 570 | 2.46 | 0.36 | 31.1 |
| 4/27/2015 | 15:10:44 | 53.15 | 52.55 | 601 | 2.43 | 0.36 | 32.9 |
| 4/27/2015 | 15:10:44 | 53.48 | 52.88 | 613 | 2.40 | 0.36 | 33.5 |
| 4/27/2015 | 15:10:45 | 53.81 | 53.21 | 613 | 2.33 | 0.36 | 33.5 |
| 4/27/2015 | 15:10:46 | 54.13 | 53.53 | 583 | 3.14 | 0.38 | 31.9 |
| 4/27/2015 | 15:10:47 | 54.46 | 53.86 | 494 | 4.15 | 0.39 | 27.0 |
| 4/27/2015 | 15:10:50 | 54.79 | 54.19 | 68 | 3.39 | 0.39 | 3.7 |
| 4/27/2015 | 15:10:52 | 55.12 | 54.52 | 190 | 3.37 | 0.40 | 10.4 |
| 4/27/2015 | 15:10:55 | 55.45 | 54.85 | 97 | 3.74 | 0.40 | 5.3 |
| 4/27/2015 | 15:10:56 | 55.65 | 55.05 | 93 | 3.82 | 0.40 | 5.1 |

## I71 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:05:59

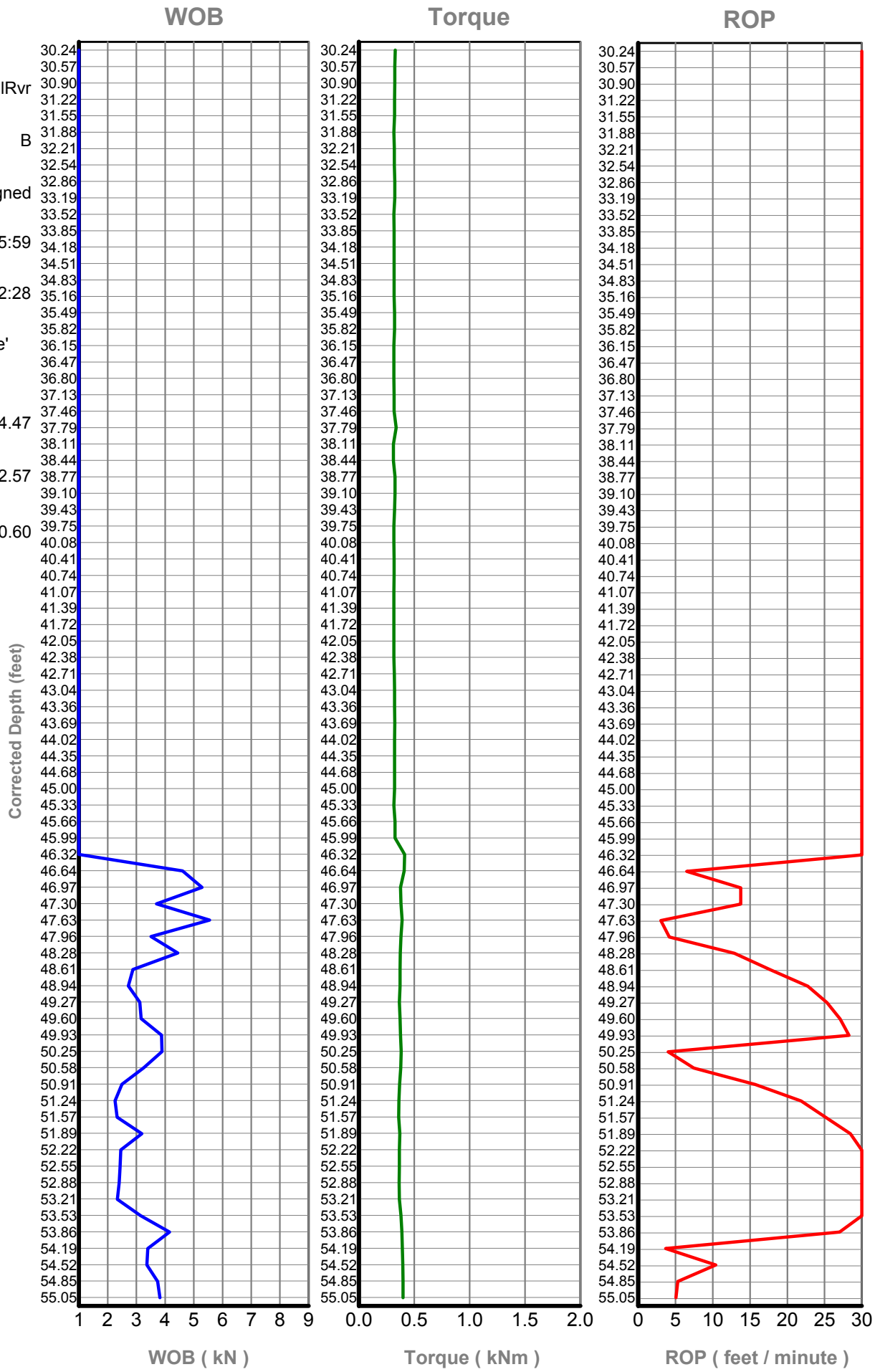
**End Date:**
4/27/2015 15:12:28

**Operator Note:**
'0.6 0.6 b Auto Complete'

**Northing:**
364,684.47

**Easting:**
248,542.57

**Tide (feet):**
0.60



## Hole: I72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 15:09:09 | 30.84 | 30.24 | 1,108 | 1.64 | 0.28 | 60.6 |
| 4/27/2015 15:09:09 | 31.17 | 30.57 | 1,108 | 1.64 | 0.28 | 60.6 |
| 4/27/2015 15:09:09 | 31.50 | 30.90 | 1,108 | 1.63 | 0.28 | 60.6 |
| 4/27/2015 15:09:10 | 31.82 | 31.22 | 1,108 | 1.63 | 0.28 | 60.6 |
| 4/27/2015 15:09:10 | 32.15 | 31.55 | 1,108 | 1.60 | 0.28 | 60.6 |
| 4/27/2015 15:09:11 | 32.48 | 31.88 | 1,108 | 1.62 | 0.28 | 60.6 |
| 4/27/2015 15:09:11 | 32.81 | 32.21 | 1,108 | 1.62 | 0.28 | 60.6 |
| 4/27/2015 15:09:11 | 33.14 | 32.54 | 1,102 | 1.63 | 0.27 | 60.3 |
| 4/27/2015 15:09:12 | 33.46 | 32.86 | 1,108 | 1.62 | 0.28 | 60.6 |
| 4/27/2015 15:09:12 | 33.79 | 33.19 | 1,108 | 1.62 | 0.28 | 60.6 |
| 4/27/2015 15:09:12 | 34.12 | 33.52 | 1,089 | 1.63 | 0.28 | 59.5 |
| 4/27/2015 15:09:13 | 34.45 | 33.85 | 1,089 | 1.63 | 0.28 | 59.5 |
| 4/27/2015 15:09:13 | 34.78 | 34.18 | 1,098 | 1.63 | 0.28 | 60.1 |
| 4/27/2015 15:09:13 | 35.11 | 34.51 | 1,096 | 1.63 | 0.28 | 59.9 |
| 4/27/2015 15:09:14 | 35.43 | 34.83 | 1,096 | 1.63 | 0.28 | 59.9 |
| 4/27/2015 15:09:14 | 35.76 | 35.16 | 1,099 | 1.63 | 0.28 | 60.1 |
| 4/27/2015 15:09:14 | 36.09 | 35.49 | 1,099 | 1.64 | 0.28 | 60.1 |
| 4/27/2015 15:09:15 | 36.42 | 35.82 | 1,099 | 1.64 | 0.28 | 60.1 |
| 4/27/2015 15:09:15 | 36.75 | 36.15 | 1,101 | 1.64 | 0.28 | 60.2 |
| 4/27/2015 15:09:15 | 37.07 | 36.47 | 1,101 | 1.64 | 0.28 | 60.2 |
| 4/27/2015 15:09:15 | 37.40 | 36.80 | 1,098 | 1.63 | 0.28 | 60.1 |
| 4/27/2015 15:09:16 | 37.73 | 37.13 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:16 | 38.06 | 37.46 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:16 | 38.39 | 37.79 | 1,086 | 1.64 | 0.28 | 59.4 |
| 4/27/2015 15:09:17 | 38.71 | 38.11 | 1,096 | 1.64 | 0.28 | 59.9 |
| 4/27/2015 15:09:17 | 39.04 | 38.44 | 1,096 | 1.64 | 0.28 | 59.9 |
| 4/27/2015 15:09:17 | 39.37 | 38.77 | 1,096 | 1.64 | 0.28 | 59.9 |
| 4/27/2015 15:09:18 | 39.70 | 39.10 | 1,096 | 1.64 | 0.28 | 59.9 |
| 4/27/2015 15:09:18 | 40.03 | 39.43 | 1,093 | 1.64 | 0.28 | 59.8 |
| 4/27/2015 15:09:18 | 40.35 | 39.75 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:19 | 40.68 | 40.08 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:19 | 41.01 | 40.41 | 1,098 | 1.61 | 0.28 | 60.1 |
| 4/27/2015 15:09:19 | 41.34 | 40.74 | 1,086 | 1.61 | 0.28 | 59.4 |
| 4/27/2015 15:09:20 | 41.67 | 41.07 | 1,086 | 1.61 | 0.28 | 59.4 |
| 4/27/2015 15:09:20 | 41.99 | 41.39 | 1,090 | 1.60 | 0.29 | 59.6 |
| 4/27/2015 15:09:21 | 42.32 | 41.72 | 1,090 | 1.60 | 0.29 | 59.6 |
| 4/27/2015 15:09:21 | 42.65 | 42.05 | 1,083 | 1.62 | 0.28 | 59.2 |
| 4/27/2015 15:09:21 | 42.98 | 42.38 | 1,090 | 1.61 | 0.28 | 59.6 |
| 4/27/2015 15:09:22 | 43.31 | 42.71 | 1,090 | 1.61 | 0.28 | 59.6 |
| 4/27/2015 15:09:22 | 43.64 | 43.04 | 1,090 | 1.61 | 0.28 | 59.6 |
| 4/27/2015 15:09:22 | 43.96 | 43.36 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:23 | 44.29 | 43.69 | 1,096 | 1.62 | 0.28 | 59.9 |
| 4/27/2015 15:09:23 | 44.62 | 44.02 | 1,090 | 1.70 | 0.28 | 59.6 |
| 4/27/2015 15:09:36 | 44.95 | 44.35 | 0 | 1.70 | 0.88 | 0.0 |
| 4/27/2015 15:09:37 | 45.28 | 44.68 | 62 | 1.69 | 1.09 | 3.4 |
| 4/27/2015 15:09:37 | 45.60 | 45.00 | 222 | 1.70 | 1.12 | 12.1 |
| 4/27/2015 15:09:38 | 45.93 | 45.33 | 359 | 1.72 | 1.03 | 19.6 |
| 4/27/2015 15:09:38 | 46.26 | 45.66 | 491 | 1.75 | 1.12 | 26.9 |
| 4/27/2015 15:09:39 | 46.59 | 45.99 | 613 | 1.72 | 1.49 | 33.5 |
| 4/27/2015 15:09:41 | 46.92 | 46.32 | 335 | 1.87 | 1.33 | 18.3 |
| 4/27/2015 15:11:04 | 47.24 | 46.64 | 40 | 1.66 | 1.21 | 2.2 |
| 4/27/2015 15:11:34 | 47.57 | 46.97 | 35 | 1.70 | 1.42 | 1.9 |
| 4/27/2015 15:11:35 | 47.90 | 47.30 | 123 | 1.69 | 1.11 | 6.7 |
| 4/27/2015 15:11:36 | 48.23 | 47.63 | 270 | 1.74 | 1.01 | 14.8 |
| 4/27/2015 15:12:21 | 48.56 | 47.96 | 12 | 1.65 | 1.10 | 0.6 |
| 4/27/2015 15:12:22 | 48.88 | 48.28 | 144 | 1.76 | 0.96 | 7.9 |
| 4/27/2015 15:12:22 | 49.21 | 48.61 | 293 | 1.72 | 0.94 | 16.0 |
| 4/27/2015 15:13:14 | 49.54 | 48.94 | 0 | 1.74 | 1.36 | 0.0 |
| 4/27/2015 15:13:36 | 49.87 | 49.27 | 93 | 1.69 | 1.44 | 5.1 |
| 4/27/2015 15:13:37 | 50.20 | 49.60 | 194 | 1.72 | 1.26 | 10.6 |
| 4/27/2015 15:14:13 | 50.53 | 49.93 | 38 | 1.74 | 1.21 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 15:14:14 | 50.85 | 50.25 | 150 | 1.76 | 1.11 | 8.2 |
| 4/27/2015 | 15:14:14 | 51.18 | 50.58 | 270 | 1.98 | 1.00 | 14.7 |
| 4/27/2015 | 15:14:15 | 51.51 | 50.91 | 404 | 1.71 | 0.90 | 22.1 |
| 4/27/2015 | 15:14:15 | 51.84 | 51.24 | 560 | 1.74 | 0.94 | 30.6 |
| 4/27/2015 | 15:14:16 | 52.17 | 51.57 | 672 | 1.81 | 0.92 | 36.7 |
| 4/27/2015 | 15:14:36 | 52.49 | 51.89 | 0 | 1.70 | 0.98 | 0.0 |
| 4/27/2015 | 15:15:00 | 52.82 | 52.22 | 12 | 1.72 | 0.95 | 0.6 |
| 4/27/2015 | 15:15:00 | 53.15 | 52.55 | 153 | 1.72 | 0.90 | 8.4 |
| 4/27/2015 | 15:15:01 | 53.48 | 52.88 | 311 | 1.73 | 0.89 | 17.0 |
| 4/27/2015 | 15:15:22 | 53.81 | 53.21 | 0 | 1.72 | 0.91 | 0.0 |
| 4/27/2015 | 15:15:22 | 54.13 | 53.53 | 109 | 1.72 | 1.05 | 5.9 |
| 4/27/2015 | 15:15:23 | 54.46 | 53.86 | 255 | 1.74 | 1.07 | 13.9 |
| 4/27/2015 | 15:15:23 | 54.79 | 54.19 | 402 | 1.70 | 0.97 | 22.0 |
| 4/27/2015 | 15:15:24 | 55.12 | 54.52 | 542 | 1.70 | 0.95 | 29.6 |
| 4/27/2015 | 15:15:29 | 55.45 | 54.85 | 0 | 1.69 | 1.20 | 0.0 |
| 4/27/2015 | 15:15:29 | 55.64 | 55.04 | 62 | 1.71 | 1.21 | 3.4 |

## I72 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 15:08:06

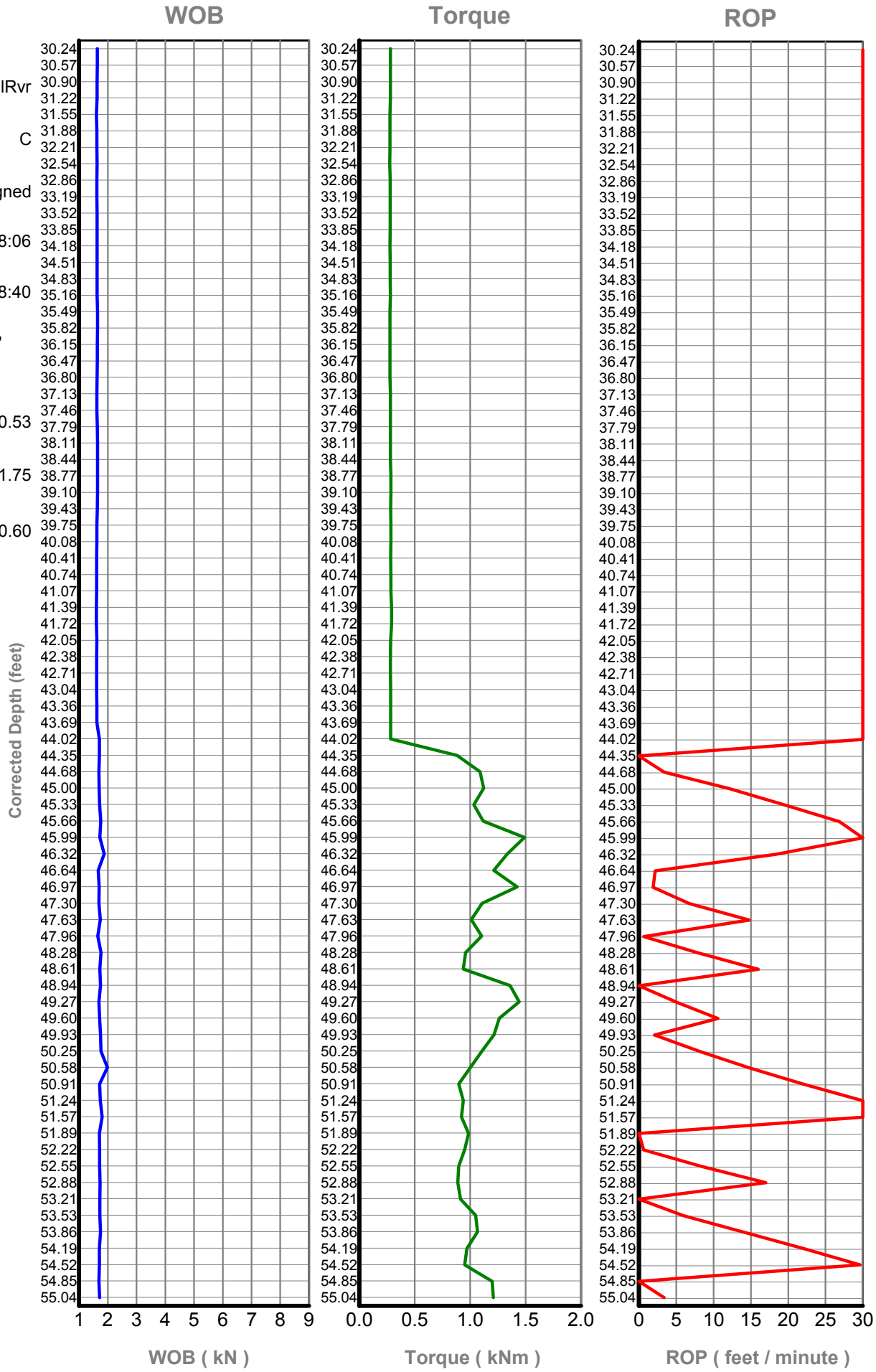
**End Date:**
4/27/2015 15:18:40

**Operator Note:**
'0.6 .6 C Auto Complete'

**Northing:**
364,730.53

**Easting:**
248,601.75

**Tide (feet):**
0.60



## Hole: I73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:56:57 | 33.14 | 30.24 | 807 | 1.06 | 0.73 | 44.1 |
| 4/29/2015 1:56:57 | 33.46 | 30.56 | 805 | 1.05 | 0.73 | 44.0 |
| 4/29/2015 1:56:58 | 33.79 | 30.89 | 803 | 1.05 | 0.73 | 43.9 |
| 4/29/2015 1:56:59 | 34.12 | 31.22 | 803 | 1.06 | 0.73 | 43.9 |
| 4/29/2015 1:56:59 | 34.45 | 31.55 | 803 | 1.06 | 0.73 | 43.9 |
| 4/29/2015 1:56:59 | 34.78 | 31.88 | 804 | 1.07 | 0.73 | 44.0 |
| 4/29/2015 1:57:00 | 35.11 | 32.21 | 801 | 1.07 | 0.71 | 43.8 |
| 4/29/2015 1:57:00 | 35.43 | 32.53 | 804 | 1.04 | 0.73 | 44.0 |
| 4/29/2015 1:57:01 | 35.76 | 32.86 | 806 | 1.06 | 0.73 | 44.1 |
| 4/29/2015 1:57:01 | 36.09 | 33.19 | 792 | 1.06 | 0.73 | 43.3 |
| 4/29/2015 1:57:02 | 36.42 | 33.52 | 792 | 1.06 | 0.73 | 43.3 |
| 4/29/2015 1:57:02 | 36.75 | 33.85 | 792 | 1.06 | 0.73 | 43.3 |
| 4/29/2015 1:57:02 | 37.07 | 34.17 | 796 | 1.05 | 0.73 | 43.5 |
| 4/29/2015 1:57:03 | 37.40 | 34.50 | 804 | 1.06 | 0.72 | 44.0 |
| 4/29/2015 1:57:03 | 37.73 | 34.83 | 796 | 1.05 | 0.73 | 43.5 |
| 4/29/2015 1:57:04 | 38.06 | 35.16 | 799 | 1.07 | 0.73 | 43.7 |
| 4/29/2015 1:57:04 | 38.39 | 35.49 | 819 | 1.04 | 0.71 | 44.8 |
| 4/29/2015 1:57:05 | 38.71 | 35.81 | 819 | 1.04 | 0.71 | 44.8 |
| 4/29/2015 1:57:05 | 39.04 | 36.14 | 809 | 1.07 | 0.72 | 44.3 |
| 4/29/2015 1:57:05 | 39.37 | 36.47 | 809 | 1.06 | 0.72 | 44.3 |
| 4/29/2015 1:57:06 | 39.70 | 36.80 | 809 | 1.06 | 0.70 | 44.3 |
| 4/29/2015 1:57:06 | 40.03 | 37.13 | 809 | 1.06 | 0.73 | 44.3 |
| 4/29/2015 1:57:07 | 40.35 | 37.45 | 809 | 1.07 | 0.73 | 44.3 |
| 4/29/2015 1:57:07 | 40.68 | 37.78 | 807 | 1.05 | 0.73 | 44.1 |
| 4/29/2015 1:57:08 | 41.01 | 38.11 | 807 | 1.05 | 0.73 | 44.1 |
| 4/29/2015 1:57:08 | 41.34 | 38.44 | 790 | 1.05 | 0.73 | 43.2 |
| 4/29/2015 1:57:08 | 41.67 | 38.77 | 790 | 1.05 | 0.72 | 43.2 |
| 4/29/2015 1:57:09 | 41.99 | 39.09 | 796 | 1.04 | 0.61 | 43.5 |
| 4/29/2015 1:57:10 | 42.32 | 39.42 | 801 | 1.06 | 0.72 | 43.8 |
| 4/29/2015 1:57:10 | 42.65 | 39.75 | 789 | 1.04 | 0.72 | 43.1 |
| 4/29/2015 1:57:11 | 42.98 | 40.08 | 789 | 1.04 | 0.72 | 43.1 |
| 4/29/2015 1:57:11 | 43.31 | 40.41 | 796 | 1.04 | 0.72 | 43.6 |
| 4/29/2015 1:57:11 | 43.64 | 40.74 | 810 | 1.05 | 0.72 | 44.3 |
| 4/29/2015 1:57:12 | 43.96 | 41.06 | 801 | 1.07 | 0.67 | 43.8 |
| 4/29/2015 1:57:12 | 44.29 | 41.39 | 796 | 1.06 | 0.72 | 43.6 |
| 4/29/2015 1:57:13 | 44.62 | 41.72 | 804 | 1.06 | 0.73 | 43.9 |
| 4/29/2015 1:57:13 | 44.95 | 42.05 | 801 | 1.07 | 0.72 | 43.8 |
| 4/29/2015 1:57:14 | 45.28 | 42.38 | 798 | 1.07 | 0.72 | 43.6 |
| 4/29/2015 1:57:14 | 45.60 | 42.70 | 798 | 1.07 | 0.72 | 43.6 |
| 4/29/2015 1:57:14 | 45.93 | 43.03 | 798 | 1.05 | 0.72 | 43.6 |
| 4/29/2015 1:57:15 | 46.26 | 43.36 | 798 | 1.04 | 0.73 | 43.6 |
| 4/29/2015 1:57:15 | 46.59 | 43.69 | 795 | 1.07 | 0.72 | 43.5 |
| 4/29/2015 1:57:16 | 46.92 | 44.02 | 792 | 1.07 | 0.66 | 43.3 |
| 4/29/2015 1:57:16 | 47.24 | 44.34 | 790 | 1.05 | 0.72 | 43.2 |
| 4/29/2015 1:57:17 | 47.57 | 44.67 | 798 | 1.05 | 0.72 | 43.6 |
| 4/29/2015 1:57:17 | 47.90 | 45.00 | 798 | 1.05 | 0.72 | 43.6 |
| 4/29/2015 1:57:17 | 48.23 | 45.33 | 792 | 1.06 | 0.72 | 43.3 |
| 4/29/2015 1:57:37 | 48.56 | 45.66 | 32 | 1.05 | 1.19 | 1.7 |
| 4/29/2015 1:57:39 | 48.88 | 45.98 | 133 | 1.07 | 1.23 | 7.3 |
| 4/29/2015 1:57:41 | 49.21 | 46.31 | 187 | 1.19 | 0.97 | 10.2 |
| 4/29/2015 1:57:47 | 49.54 | 46.64 | 52 | 1.68 | 1.92 | 2.8 |
| 4/29/2015 1:57:48 | 49.87 | 46.97 | 183 | 1.05 | 1.06 | 10.0 |
| 4/29/2015 1:57:48 | 50.20 | 47.30 | 286 | 1.02 | 0.90 | 15.7 |
| 4/29/2015 1:57:49 | 50.53 | 47.63 | 373 | 1.07 | 0.73 | 20.4 |
| 4/29/2015 1:57:50 | 50.85 | 47.95 | 437 | 0.98 | 0.89 | 23.9 |
| 4/29/2015 1:58:15 | 51.18 | 48.28 | 0 | 1.48 | 1.33 | 0.0 |
| 4/29/2015 1:58:17 | 51.51 | 48.61 | 115 | 1.76 | 1.90 | 6.3 |
| 4/29/2015 1:58:19 | 51.84 | 48.94 | 196 | 1.11 | 1.37 | 10.7 |
| 4/29/2015 1:58:29 | 52.17 | 49.27 | 6 | 1.73 | 1.57 | 0.3 |
| 4/29/2015 1:58:30 | 52.49 | 49.59 | 81 | 1.58 | 1.24 | 4.4 |
| 4/29/2015 1:58:30 | 52.82 | 49.92 | 207 | 1.46 | 1.07 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:58:31 | 53.15 | 50.25 | 345 | 1.59 | 0.87 | 18.8 |
| 4/29/2015 | 1:58:31 | 53.48 | 50.58 | 489 | 1.57 | 0.93 | 26.7 |
| 4/29/2015 | 1:59:01 | 53.81 | 50.91 | 37 | 1.07 | 1.04 | 2.0 |
| 4/29/2015 | 1:59:04 | 54.13 | 51.23 | 142 | 1.06 | 0.97 | 7.7 |
| 4/29/2015 | 1:59:07 | 54.46 | 51.56 | 129 | 1.19 | 0.98 | 7.1 |
| 4/29/2015 | 1:59:09 | 54.79 | 51.89 | 105 | 0.94 | 0.89 | 5.7 |
| 4/29/2015 | 1:59:10 | 55.12 | 52.22 | 233 | 0.94 | 0.77 | 12.8 |
| 4/29/2015 | 1:59:11 | 55.45 | 52.55 | 295 | 0.94 | 0.75 | 16.1 |
| 4/29/2015 | 1:59:12 | 55.77 | 52.87 | 359 | 1.00 | 0.76 | 19.6 |
| 4/29/2015 | 1:59:13 | 56.10 | 53.20 | 329 | 1.00 | 0.71 | 18.0 |
| 4/29/2015 | 1:59:18 | 56.43 | 53.53 | 0 | 1.04 | 0.76 | 0.0 |
| 4/29/2015 | 1:59:20 | 56.76 | 53.86 | 141 | 0.98 | 0.91 | 7.7 |
| 4/29/2015 | 1:59:22 | 57.09 | 54.19 | 171 | 0.96 | 0.90 | 9.3 |
| 4/29/2015 | 1:59:25 | 57.41 | 54.51 | 145 | 1.05 | 0.80 | 7.9 |
| 4/29/2015 | 1:59:27 | 57.74 | 54.84 | 181 | 1.03 | 0.86 | 9.9 |
| 4/29/2015 | 1:59:29 | 58.07 | 55.17 | 153 | 1.06 | 0.92 | 8.4 |
| 4/29/2015 | 1:59:32 | 58.24 | 55.34 | 69 | 1.07 | 0.98 | 3.8 |

## I73 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:54:46

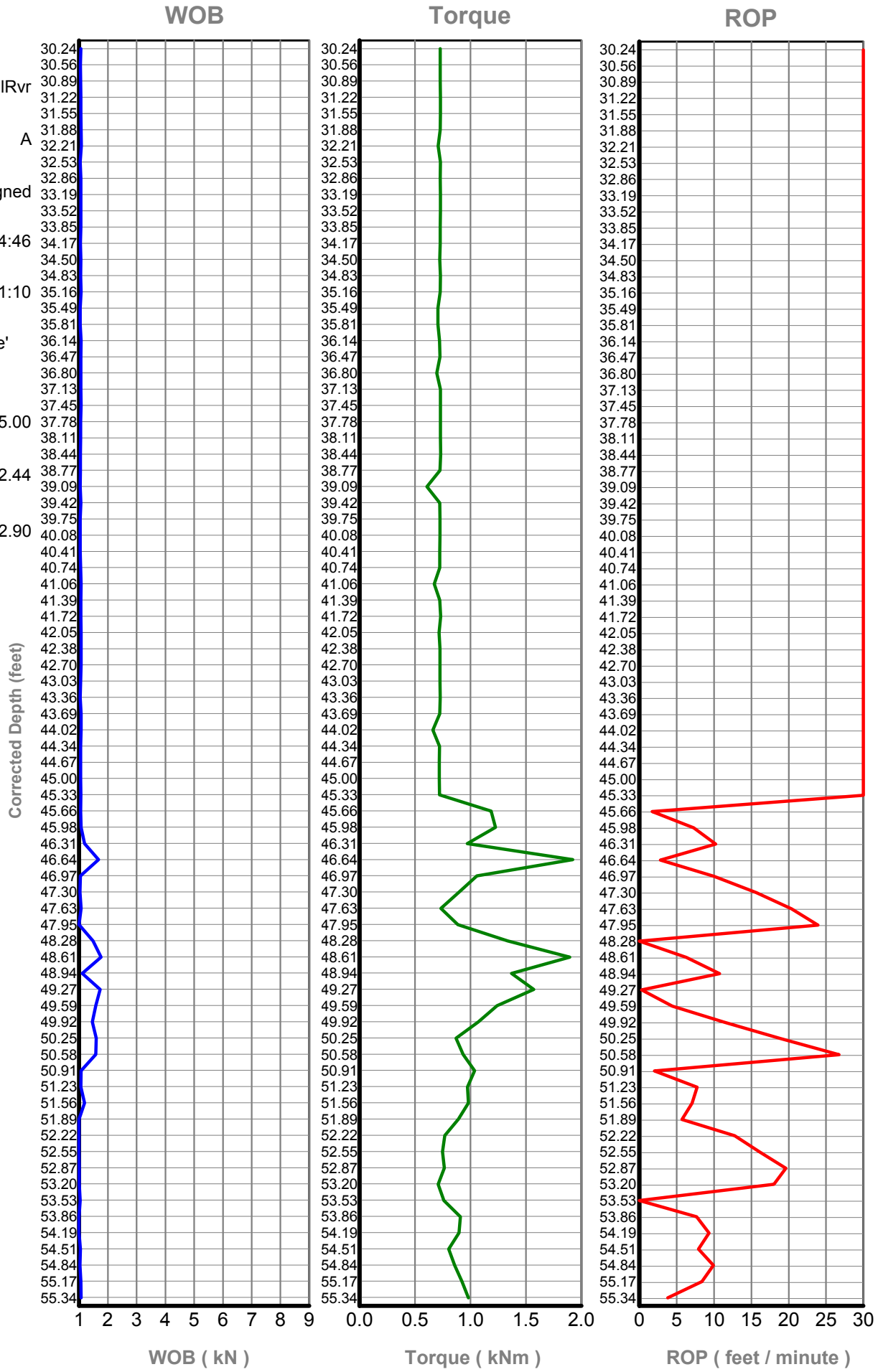
**End Date:**
4/29/2015 2:01:10

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
364,155.00

**Easting:**
248,002.44

**Tide (feet):**
2.90



## Hole: I74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:57:14 | 33.14 | 30.24 | 1,117 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 1:57:14 | 33.46 | 30.56 | 1,122 | 0.29 | 0.37 | 61.4 |
| 4/29/2015 1:57:15 | 33.79 | 30.89 | 1,115 | 0.28 | 0.37 | 61.0 |
| 4/29/2015 1:57:15 | 34.12 | 31.22 | 1,115 | 0.28 | 0.37 | 61.0 |
| 4/29/2015 1:57:15 | 34.45 | 31.55 | 1,118 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 1:57:16 | 34.78 | 31.88 | 1,118 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 1:57:16 | 35.11 | 32.21 | 1,118 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 1:57:16 | 35.43 | 32.53 | 1,142 | 0.29 | 0.37 | 62.4 |
| 4/29/2015 1:57:17 | 35.76 | 32.86 | 1,142 | 0.29 | 0.37 | 62.4 |
| 4/29/2015 1:57:17 | 36.09 | 33.19 | 1,130 | 0.29 | 0.37 | 61.8 |
| 4/29/2015 1:57:17 | 36.42 | 33.52 | 1,125 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:57:18 | 36.75 | 33.85 | 1,125 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 1:57:18 | 37.07 | 34.17 | 1,122 | 0.28 | 0.37 | 61.4 |
| 4/29/2015 1:57:18 | 37.40 | 34.50 | 1,122 | 0.28 | 0.37 | 61.4 |
| 4/29/2015 1:57:18 | 37.73 | 34.83 | 1,135 | 0.28 | 0.37 | 62.0 |
| 4/29/2015 1:57:19 | 38.06 | 35.16 | 1,127 | 0.28 | 0.36 | 61.6 |
| 4/29/2015 1:57:19 | 38.39 | 35.49 | 1,127 | 0.28 | 0.36 | 61.6 |
| 4/29/2015 1:57:19 | 38.71 | 35.81 | 1,130 | 0.29 | 0.37 | 61.8 |
| 4/29/2015 1:57:20 | 39.04 | 36.14 | 1,130 | 0.29 | 0.37 | 61.8 |
| 4/29/2015 1:57:20 | 39.37 | 36.47 | 1,123 | 0.29 | 0.37 | 61.4 |
| 4/29/2015 1:57:20 | 39.70 | 36.80 | 1,136 | 0.28 | 0.37 | 62.1 |
| 4/29/2015 1:57:21 | 40.03 | 37.13 | 1,136 | 0.28 | 0.37 | 62.1 |
| 4/29/2015 1:57:21 | 40.35 | 37.45 | 1,139 | 0.28 | 0.37 | 62.3 |
| 4/29/2015 1:57:21 | 40.68 | 37.78 | 1,139 | 0.28 | 0.37 | 62.3 |
| 4/29/2015 1:57:22 | 41.01 | 38.11 | 1,139 | 0.29 | 0.37 | 62.3 |
| 4/29/2015 1:57:22 | 41.34 | 38.44 | 1,121 | 0.28 | 0.37 | 61.3 |
| 4/29/2015 1:57:22 | 41.67 | 38.77 | 1,121 | 0.28 | 0.37 | 61.3 |
| 4/29/2015 1:57:23 | 41.99 | 39.09 | 1,121 | 0.28 | 0.37 | 61.3 |
| 4/29/2015 1:57:23 | 42.32 | 39.42 | 1,121 | 0.28 | 0.37 | 61.3 |
| 4/29/2015 1:57:23 | 42.65 | 39.75 | 1,138 | 0.28 | 0.35 | 62.2 |
| 4/29/2015 1:57:24 | 42.98 | 40.08 | 1,125 | 0.28 | 0.36 | 61.5 |
| 4/29/2015 1:57:24 | 43.31 | 40.41 | 1,125 | 0.28 | 0.36 | 61.5 |
| 4/29/2015 1:57:24 | 43.64 | 40.74 | 1,122 | 0.29 | 0.37 | 61.3 |
| 4/29/2015 1:57:25 | 43.96 | 41.06 | 1,122 | 0.29 | 0.37 | 61.3 |
| 4/29/2015 1:57:25 | 44.29 | 41.39 | 1,128 | 0.29 | 0.37 | 61.7 |
| 4/29/2015 1:57:25 | 44.62 | 41.72 | 1,146 | 0.29 | 0.37 | 62.7 |
| 4/29/2015 1:57:26 | 44.95 | 42.05 | 1,146 | 0.29 | 0.37 | 62.7 |
| 4/29/2015 1:57:26 | 45.28 | 42.38 | 1,136 | 0.28 | 0.36 | 62.1 |
| 4/29/2015 1:57:26 | 45.60 | 42.70 | 1,136 | 0.28 | 0.36 | 62.1 |
| 4/29/2015 1:57:26 | 45.93 | 43.03 | 1,142 | 0.28 | 0.37 | 62.4 |
| 4/29/2015 1:57:27 | 46.26 | 43.36 | 1,148 | 0.29 | 0.37 | 62.8 |
| 4/29/2015 1:57:27 | 46.59 | 43.69 | 1,148 | 0.29 | 0.37 | 62.8 |
| 4/29/2015 1:57:27 | 46.92 | 44.02 | 1,145 | 0.29 | 0.37 | 62.6 |
| 4/29/2015 1:57:28 | 47.24 | 44.34 | 1,145 | 0.29 | 0.37 | 62.6 |
| 4/29/2015 1:57:28 | 47.57 | 44.67 | 1,142 | 0.28 | 0.37 | 62.4 |
| 4/29/2015 1:57:28 | 47.90 | 45.00 | 1,135 | 0.25 | 0.46 | 62.1 |
| 4/29/2015 1:57:33 | 48.23 | 45.33 | 74 | 3.10 | 0.45 | 4.0 |
| 4/29/2015 1:57:39 | 48.56 | 45.66 | 93 | 6.09 | 0.47 | 5.1 |
| 4/29/2015 1:57:40 | 48.88 | 45.98 | 183 | 2.48 | 0.42 | 10.0 |
| 4/29/2015 1:57:47 | 49.21 | 46.31 | 17 | 4.05 | 0.49 | 0.9 |
| 4/29/2015 1:57:48 | 49.54 | 46.64 | 165 | 3.92 | 0.43 | 9.0 |
| 4/29/2015 1:57:54 | 49.87 | 46.97 | 95 | 3.90 | 0.46 | 5.2 |
| 4/29/2015 1:57:57 | 50.20 | 47.30 | 90 | 3.58 | 0.44 | 4.9 |
| 4/29/2015 1:57:58 | 50.53 | 47.63 | 117 | 2.43 | 0.42 | 6.4 |
| 4/29/2015 1:58:00 | 50.85 | 47.95 | 209 | 4.19 | 0.45 | 11.4 |
| 4/29/2015 1:58:01 | 51.18 | 48.28 | 238 | 3.59 | 0.44 | 13.0 |
| 4/29/2015 1:58:02 | 51.51 | 48.61 | 231 | 3.41 | 0.40 | 12.6 |
| 4/29/2015 1:58:03 | 51.84 | 48.94 | 250 | 2.88 | 0.43 | 13.7 |
| 4/29/2015 1:58:05 | 52.17 | 49.27 | 321 | 2.40 | 0.44 | 17.6 |
| 4/29/2015 1:58:11 | 52.49 | 49.59 | 46 | 5.16 | 0.42 | 2.5 |
| 4/29/2015 1:58:11 | 52.82 | 49.92 | 100 | 3.59 | 0.42 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:58:12 | 53.15 | 50.25 | 300 | 3.74 | 0.44 | 16.4 |
| 4/29/2015 | 1:58:13 | 53.48 | 50.58 | 358 | 4.17 | 0.42 | 19.6 |
| 4/29/2015 | 1:58:21 | 53.81 | 50.91 | 9 | 3.26 | 0.43 | 0.5 |
| 4/29/2015 | 1:58:22 | 54.13 | 51.23 | 171 | 3.82 | 0.43 | 9.4 |
| 4/29/2015 | 1:58:23 | 54.46 | 51.56 | 319 | 2.81 | 0.41 | 17.4 |
| 4/29/2015 | 1:58:27 | 54.79 | 51.89 | 176 | 2.15 | 0.39 | 9.6 |
| 4/29/2015 | 1:58:28 | 55.12 | 52.22 | 98 | 3.20 | 0.45 | 5.4 |
| 4/29/2015 | 1:58:33 | 55.45 | 52.55 | 69 | 2.61 | 0.45 | 3.8 |
| 4/29/2015 | 1:58:38 | 55.77 | 52.87 | 40 | 3.03 | 0.46 | 2.2 |
| 4/29/2015 | 1:59:09 | 56.10 | 53.20 | 63 | 3.39 | 0.44 | 3.5 |
| 4/29/2015 | 1:59:15 | 56.43 | 53.53 | 55 | 2.71 | 0.46 | 3.0 |
| 4/29/2015 | 1:59:21 | 56.76 | 53.86 | 61 | 2.80 | 0.44 | 3.3 |
| 4/29/2015 | 1:59:27 | 57.09 | 54.19 | 67 | 3.14 | 0.46 | 3.6 |

## I74 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:55:50

**End Date:**
4/29/2015 2:00:37

**Operator Note:**
'2.9 3.1b Auto Complete'

**Northing:**
364,203.00

**Easting:**
248,059.00

**Tide (feet):**
2.90



## Hole: I75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 1:57:22 | 33.14 | 30.24 | 1,118 | 1.62 | 0.14 | 61.1 |
| 4/29/2015 1:57:22 | 33.46 | 30.56 | 1,118 | 1.60 | 0.14 | 61.1 |
| 4/29/2015 1:57:22 | 33.79 | 30.89 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:57:23 | 34.12 | 31.22 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:57:23 | 34.45 | 31.55 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:57:23 | 34.78 | 31.88 | 1,115 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 1:57:24 | 35.11 | 32.21 | 1,115 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 1:57:24 | 35.43 | 32.53 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:57:25 | 35.76 | 32.86 | 1,116 | 1.59 | 0.14 | 61.0 |
| 4/29/2015 1:57:25 | 36.09 | 33.19 | 1,129 | 1.61 | 0.14 | 61.7 |
| 4/29/2015 1:57:25 | 36.42 | 33.52 | 1,115 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 1:57:26 | 36.75 | 33.85 | 1,115 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 1:57:26 | 37.07 | 34.17 | 1,129 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 1:57:26 | 37.40 | 34.50 | 1,129 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 1:57:26 | 37.73 | 34.83 | 1,120 | 1.62 | 0.14 | 61.2 |
| 4/29/2015 1:57:27 | 38.06 | 35.16 | 1,126 | 1.61 | 0.14 | 61.6 |
| 4/29/2015 1:57:27 | 38.39 | 35.49 | 1,126 | 1.61 | 0.14 | 61.6 |
| 4/29/2015 1:57:27 | 38.71 | 35.81 | 1,117 | 1.63 | 0.14 | 61.1 |
| 4/29/2015 1:57:28 | 39.04 | 36.14 | 1,126 | 1.61 | 0.14 | 61.6 |
| 4/29/2015 1:57:28 | 39.37 | 36.47 | 1,126 | 1.61 | 0.14 | 61.6 |
| 4/29/2015 1:57:28 | 39.70 | 36.80 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 1:57:29 | 40.03 | 37.13 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 1:57:29 | 40.35 | 37.45 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:57:29 | 40.68 | 37.78 | 1,109 | 1.62 | 0.14 | 60.6 |
| 4/29/2015 1:57:30 | 41.01 | 38.11 | 1,109 | 1.62 | 0.14 | 60.6 |
| 4/29/2015 1:57:30 | 41.34 | 38.44 | 1,122 | 1.63 | 0.14 | 61.3 |
| 4/29/2015 1:57:30 | 41.67 | 38.77 | 1,122 | 1.63 | 0.14 | 61.3 |
| 4/29/2015 1:57:30 | 41.99 | 39.09 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 1:57:31 | 42.32 | 39.42 | 1,116 | 1.63 | 0.14 | 61.0 |
| 4/29/2015 1:57:31 | 42.65 | 39.75 | 1,116 | 1.63 | 0.14 | 61.0 |
| 4/29/2015 1:57:31 | 42.98 | 40.08 | 1,116 | 1.61 | 0.14 | 61.0 |
| 4/29/2015 1:57:32 | 43.31 | 40.41 | 1,116 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 1:57:32 | 43.64 | 40.74 | 1,116 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 1:57:32 | 43.96 | 41.06 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:33 | 44.29 | 41.39 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:33 | 44.62 | 41.72 | 1,113 | 1.59 | 0.14 | 60.9 |
| 4/29/2015 1:57:33 | 44.95 | 42.05 | 1,103 | 1.60 | 0.14 | 60.3 |
| 4/29/2015 1:57:34 | 45.28 | 42.38 | 1,103 | 1.60 | 0.14 | 60.3 |
| 4/29/2015 1:57:34 | 45.60 | 42.70 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:35 | 45.93 | 43.03 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:34 | 46.26 | 43.36 | 1,110 | 1.61 | 0.14 | 60.7 |
| 4/29/2015 1:57:35 | 46.59 | 43.69 | 1,110 | 1.62 | 0.14 | 60.7 |
| 4/29/2015 1:57:36 | 46.92 | 44.02 | 1,110 | 1.62 | 0.14 | 60.7 |
| 4/29/2015 1:57:36 | 47.24 | 44.34 | 1,110 | 1.63 | 0.14 | 60.7 |
| 4/29/2015 1:57:36 | 47.57 | 44.67 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:37 | 47.90 | 45.00 | 1,113 | 1.61 | 0.14 | 60.9 |
| 4/29/2015 1:57:37 | 48.23 | 45.33 | 1,107 | 1.62 | 0.14 | 60.5 |
| 4/29/2015 1:57:37 | 48.56 | 45.66 | 1,107 | 1.62 | 0.14 | 60.5 |
| 4/29/2015 1:57:49 | 48.88 | 45.98 | 62 | 1.66 | 1.14 | 3.4 |
| 4/29/2015 1:57:56 | 49.21 | 46.31 | 23 | 1.69 | 1.15 | 1.3 |
| 4/29/2015 1:57:57 | 49.54 | 46.64 | 196 | 1.63 | 1.25 | 10.7 |
| 4/29/2015 1:57:58 | 49.87 | 46.97 | 254 | 1.74 | 1.29 | 13.9 |
| 4/29/2015 1:58:02 | 50.20 | 47.30 | 144 | 1.76 | 1.24 | 7.9 |
| 4/29/2015 1:58:10 | 50.53 | 47.63 | 24 | 1.63 | 1.28 | 1.3 |
| 4/29/2015 1:58:11 | 50.85 | 47.95 | 136 | 1.70 | 1.08 | 7.4 |
| 4/29/2015 1:58:12 | 51.18 | 48.28 | 256 | 1.74 | 1.16 | 14.0 |
| 4/29/2015 1:58:13 | 51.51 | 48.61 | 432 | 1.71 | 1.08 | 23.6 |
| 4/29/2015 1:58:13 | 51.84 | 48.94 | 519 | 1.67 | 1.05 | 28.4 |
| 4/29/2015 1:58:14 | 52.17 | 49.27 | 586 | 1.68 | 1.04 | 32.1 |
| 4/29/2015 1:58:27 | 52.49 | 49.59 | 0 | 1.68 | 1.07 | 0.0 |
| 4/29/2015 1:58:28 | 52.82 | 49.92 | 114 | 1.62 | 1.18 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 1:58:30 | 53.15 | 50.25 | 228 | 1.60 | 1.28 | 12.5 |
| 4/29/2015 | 1:58:33 | 53.48 | 50.58 | 142 | 1.60 | 1.24 | 7.8 |
| 4/29/2015 | 1:58:36 | 53.81 | 50.91 | 118 | 1.61 | 1.21 | 6.5 |
| 4/29/2015 | 1:58:39 | 54.13 | 51.23 | 128 | 1.62 | 1.22 | 7.0 |
| 4/29/2015 | 1:58:41 | 54.46 | 51.56 | 142 | 1.62 | 1.24 | 7.7 |
| 4/29/2015 | 1:58:43 | 54.79 | 51.89 | 213 | 1.64 | 1.26 | 11.7 |
| 4/29/2015 | 1:58:45 | 55.12 | 52.22 | 119 | 1.62 | 1.24 | 6.5 |
| 4/29/2015 | 1:58:49 | 55.45 | 52.55 | 98 | 1.64 | 1.26 | 5.4 |
| 4/29/2015 | 1:58:52 | 55.77 | 52.87 | 104 | 1.63 | 1.23 | 5.7 |
| 4/29/2015 | 1:58:56 | 56.10 | 53.20 | 75 | 1.64 | 1.25 | 4.1 |
| 4/29/2015 | 1:59:00 | 56.43 | 53.53 | 90 | 1.64 | 1.27 | 4.9 |
| 4/29/2015 | 1:59:05 | 56.76 | 53.86 | 66 | 1.64 | 1.30 | 3.6 |
| 4/29/2015 | 1:59:10 | 57.09 | 54.19 | 85 | 1.66 | 1.35 | 4.6 |
| 4/29/2015 | 1:59:15 | 57.41 | 54.51 | 76 | 1.63 | 1.24 | 4.1 |
| 4/29/2015 | 1:59:20 | 57.74 | 54.84 | 76 | 1.65 | 1.28 | 4.2 |
| 4/29/2015 | 1:59:24 | 58.06 | 55.16 | 71 | 1.61 | 1.41 | 3.9 |

## I75 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 1:56:03

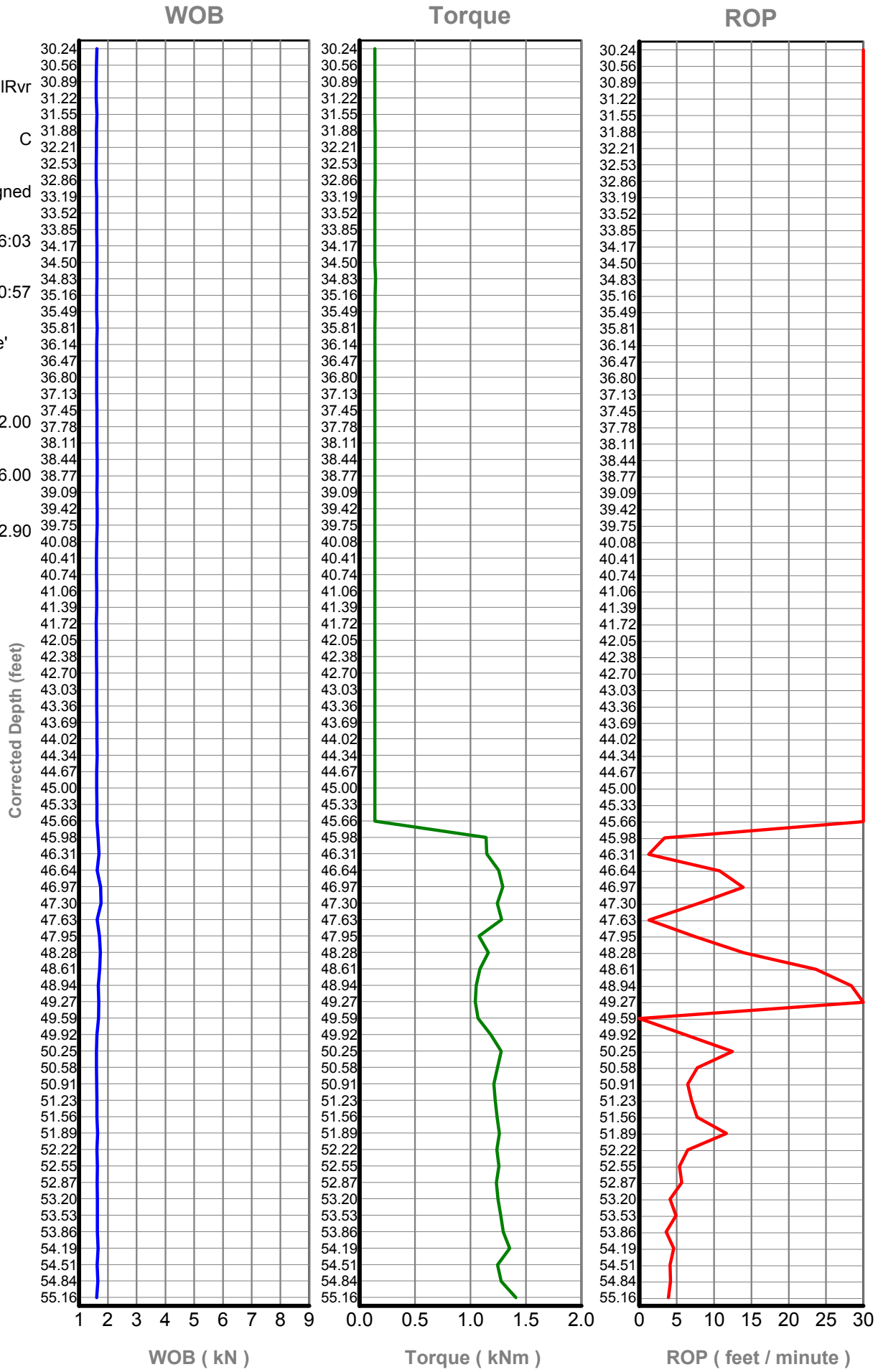
**End Date:**
4/29/2015 2:00:57

**Operator Note:**
'2.9 3.0 c Auto Complete'

**Northing:**
364,252.00

**Easting:**
248,116.00

**Tide (feet):**
2.90



## Hole: I76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 22:45:02 | 36.09 | 30.09 | 683 | 1.13 | 0.19 | 37.3 |
| 4/28/2015 22:45:03 | 36.42 | 30.42 | 683 | 1.21 | 0.26 | 37.3 |
| 4/28/2015 22:45:03 | 36.75 | 30.75 | 689 | 1.07 | 0.20 | 37.7 |
| 4/28/2015 22:45:04 | 37.07 | 31.07 | 672 | 1.10 | 0.20 | 36.7 |
| 4/28/2015 22:45:04 | 37.40 | 31.40 | 672 | 1.11 | 0.20 | 36.7 |
| 4/28/2015 22:45:05 | 37.73 | 31.73 | 692 | 1.16 | 0.24 | 37.9 |
| 4/28/2015 22:45:05 | 38.06 | 32.06 | 680 | 1.12 | 0.22 | 37.2 |
| 4/28/2015 22:45:06 | 38.39 | 32.39 | 680 | 1.08 | 0.21 | 37.2 |
| 4/28/2015 22:45:06 | 38.71 | 32.71 | 693 | 1.11 | 0.20 | 37.9 |
| 4/28/2015 22:45:07 | 39.04 | 33.04 | 691 | 1.11 | 0.21 | 37.8 |
| 4/28/2015 22:45:08 | 39.37 | 33.37 | 709 | 1.11 | 0.21 | 38.8 |
| 4/28/2015 22:45:08 | 39.70 | 33.70 | 696 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:09 | 40.03 | 34.03 | 712 | 1.11 | 0.20 | 38.9 |
| 4/28/2015 22:45:09 | 40.35 | 34.35 | 702 | 1.11 | 0.20 | 38.4 |
| 4/28/2015 22:45:10 | 40.68 | 34.68 | 700 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:10 | 41.01 | 35.01 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:11 | 41.34 | 35.34 | 697 | 1.10 | 0.20 | 38.1 |
| 4/28/2015 22:45:11 | 41.67 | 35.67 | 695 | 1.12 | 0.20 | 38.0 |
| 4/28/2015 22:45:12 | 41.99 | 35.99 | 700 | 1.09 | 0.12 | 38.3 |
| 4/28/2015 22:45:12 | 42.32 | 36.32 | 700 | 1.10 | 0.20 | 38.3 |
| 4/28/2015 22:45:13 | 42.65 | 36.65 | 700 | 1.10 | 0.20 | 38.3 |
| 4/28/2015 22:45:13 | 42.98 | 36.98 | 700 | 1.11 | 0.20 | 38.3 |
| 4/28/2015 22:45:13 | 43.31 | 37.31 | 700 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:14 | 43.64 | 37.64 | 700 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:14 | 43.96 | 37.96 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:15 | 44.29 | 38.29 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:15 | 44.62 | 38.62 | 693 | 1.09 | 0.20 | 37.9 |
| 4/28/2015 22:45:16 | 44.95 | 38.95 | 700 | 1.10 | 0.20 | 38.3 |
| 4/28/2015 22:45:16 | 45.28 | 39.28 | 701 | 1.10 | 0.20 | 38.3 |
| 4/28/2015 22:45:17 | 45.60 | 39.60 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:18 | 45.93 | 39.93 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:18 | 46.26 | 40.26 | 701 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:19 | 46.59 | 40.59 | 694 | 1.09 | 0.20 | 37.9 |
| 4/28/2015 22:45:19 | 46.92 | 40.92 | 697 | 1.07 | 0.20 | 38.1 |
| 4/28/2015 22:45:20 | 47.24 | 41.24 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:20 | 47.57 | 41.57 | 697 | 1.08 | 0.20 | 38.1 |
| 4/28/2015 22:45:21 | 47.90 | 41.90 | 697 | 1.09 | 0.20 | 38.1 |
| 4/28/2015 22:45:21 | 48.23 | 42.23 | 697 | 1.10 | 0.20 | 38.1 |
| 4/28/2015 22:45:22 | 48.56 | 42.56 | 692 | 1.09 | 0.20 | 37.9 |
| 4/28/2015 22:45:22 | 48.88 | 42.88 | 695 | 1.09 | 0.20 | 38.0 |
| 4/28/2015 22:45:23 | 49.21 | 43.21 | 699 | 1.08 | 0.20 | 38.2 |
| 4/28/2015 22:45:23 | 49.54 | 43.54 | 695 | 1.12 | 0.20 | 38.0 |
| 4/28/2015 22:45:24 | 49.87 | 43.87 | 702 | 1.09 | 0.20 | 38.4 |
| 4/28/2015 22:45:24 | 50.20 | 44.20 | 702 | 1.09 | 0.20 | 38.4 |
| 4/28/2015 22:45:25 | 50.53 | 44.53 | 704 | 1.09 | 0.20 | 38.5 |
| 4/28/2015 22:45:25 | 50.85 | 44.85 | 700 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:26 | 51.18 | 45.18 | 700 | 1.09 | 0.20 | 38.3 |
| 4/28/2015 22:45:26 | 51.51 | 45.51 | 697 | 1.08 | 0.20 | 38.1 |
| 4/28/2015 22:45:43 | 51.84 | 45.84 | 14 | 1.17 | 0.80 | 0.8 |
| 4/28/2015 22:45:49 | 52.17 | 46.17 | 23 | 1.19 | 1.24 | 1.3 |
| 4/28/2015 22:46:09 | 52.49 | 46.49 | 38 | 1.07 | 1.18 | 2.1 |
| 4/28/2015 22:46:15 | 52.82 | 46.82 | 52 | 1.14 | 1.27 | 2.8 |
| 4/28/2015 22:46:22 | 53.15 | 47.15 | 49 | 1.02 | 1.07 | 2.7 |
| 4/28/2015 22:46:29 | 53.48 | 47.48 | 49 | 1.08 | 0.97 | 2.7 |
| 4/28/2015 22:46:38 | 53.81 | 47.81 | 0 | 1.16 | 1.33 | 0.0 |
| 4/28/2015 22:46:45 | 54.13 | 48.13 | 43 | 1.07 | 1.12 | 2.4 |
| 4/28/2015 22:46:49 | 54.28 | 48.28 | 43 | 1.16 | 1.30 | 2.4 |

## I76 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:42:05

**End Date:**
4/28/2015 22:47:50

**Operator Note:**
'6 6 b Auto Complete'

**Northing:**
364,297.22

**Easting:**
248,174.58

**Tide (feet):**
6.00



## Hole: I77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 22:48:23 | 36.09 | 30.09 | 1,038 | 0.44 | 0.44 | 56.8 |
| 4/28/2015 22:48:24 | 36.42 | 30.42 | 1,038 | 0.39 | 0.44 | 56.8 |
| 4/28/2015 22:48:24 | 36.75 | 30.75 | 1,038 | 0.39 | 0.44 | 56.8 |
| 4/28/2015 22:48:24 | 37.07 | 31.07 | 1,038 | 0.39 | 0.43 | 56.8 |
| 4/28/2015 22:48:25 | 37.40 | 31.40 | 1,029 | 0.39 | 0.44 | 56.3 |
| 4/28/2015 22:48:25 | 37.73 | 31.73 | 1,029 | 0.39 | 0.44 | 56.3 |
| 4/28/2015 22:48:25 | 38.06 | 32.06 | 1,047 | 0.39 | 0.44 | 57.2 |
| 4/28/2015 22:48:26 | 38.39 | 32.39 | 1,044 | 0.34 | 0.44 | 57.1 |
| 4/28/2015 22:48:26 | 38.71 | 32.71 | 1,044 | 0.34 | 0.44 | 57.1 |
| 4/28/2015 22:48:26 | 39.04 | 33.04 | 1,044 | 0.39 | 0.44 | 57.1 |
| 4/28/2015 22:48:27 | 39.37 | 33.37 | 1,044 | 0.39 | 0.44 | 57.1 |
| 4/28/2015 22:48:28 | 39.70 | 33.70 | 1,044 | 0.39 | 0.44 | 57.1 |
| 4/28/2015 22:48:28 | 40.03 | 34.03 | 1,049 | 0.39 | 0.44 | 57.4 |
| 4/28/2015 22:48:28 | 40.35 | 34.35 | 1,049 | 0.37 | 0.44 | 57.4 |
| 4/28/2015 22:48:29 | 40.68 | 34.68 | 1,049 | 0.37 | 0.44 | 57.4 |
| 4/28/2015 22:48:29 | 41.01 | 35.01 | 1,049 | 0.39 | 0.44 | 57.4 |
| 4/28/2015 22:48:29 | 41.34 | 35.34 | 1,043 | 0.39 | 0.44 | 57.1 |
| 4/28/2015 22:48:30 | 41.67 | 35.67 | 1,043 | 0.39 | 0.44 | 57.1 |
| 4/28/2015 22:48:30 | 41.99 | 35.99 | 1,049 | 0.39 | 0.44 | 57.3 |
| 4/28/2015 22:48:30 | 42.32 | 36.32 | 1,049 | 0.39 | 0.44 | 57.3 |
| 4/28/2015 22:48:30 | 42.65 | 36.65 | 1,052 | 0.40 | 0.44 | 57.5 |
| 4/28/2015 22:48:31 | 42.98 | 36.98 | 1,052 | 0.36 | 0.44 | 57.5 |
| 4/28/2015 22:48:31 | 43.31 | 37.31 | 1,052 | 0.36 | 0.44 | 57.5 |
| 4/28/2015 22:48:31 | 43.64 | 37.64 | 1,052 | 0.39 | 0.44 | 57.5 |
| 4/28/2015 22:48:32 | 43.96 | 37.96 | 1,055 | 0.39 | 0.43 | 57.7 |
| 4/28/2015 22:48:32 | 44.29 | 38.29 | 1,055 | 0.39 | 0.43 | 57.7 |
| 4/28/2015 22:48:32 | 44.62 | 38.62 | 1,062 | 0.39 | 0.43 | 58.0 |
| 4/28/2015 22:48:33 | 44.95 | 38.95 | 1,055 | 0.40 | 0.44 | 57.7 |
| 4/28/2015 22:48:33 | 45.28 | 39.28 | 1,055 | 0.40 | 0.44 | 57.7 |
| 4/28/2015 22:48:33 | 45.60 | 39.60 | 1,046 | 0.39 | 0.44 | 57.2 |
| 4/28/2015 22:48:34 | 45.93 | 39.93 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:34 | 46.26 | 40.26 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:34 | 46.59 | 40.59 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:35 | 46.92 | 40.92 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:35 | 47.24 | 41.24 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:35 | 47.57 | 41.57 | 1,055 | 0.39 | 0.44 | 57.7 |
| 4/28/2015 22:48:36 | 47.90 | 41.90 | 1,058 | 0.39 | 0.44 | 57.9 |
| 4/28/2015 22:48:36 | 48.23 | 42.23 | 1,058 | 0.39 | 0.44 | 57.9 |
| 4/28/2015 22:48:37 | 48.56 | 42.56 | 1,052 | 0.40 | 0.44 | 57.5 |
| 4/28/2015 22:48:37 | 48.88 | 42.88 | 1,052 | 0.40 | 0.44 | 57.5 |
| 4/28/2015 22:48:37 | 49.21 | 43.21 | 1,030 | 0.39 | 0.44 | 56.3 |
| 4/28/2015 22:48:38 | 49.54 | 43.54 | 1,031 | 0.39 | 0.44 | 56.4 |
| 4/28/2015 22:48:38 | 49.87 | 43.87 | 1,031 | 0.39 | 0.44 | 56.4 |
| 4/28/2015 22:48:38 | 50.20 | 44.20 | 1,031 | 0.39 | 0.44 | 56.4 |
| 4/28/2015 22:48:39 | 50.53 | 44.53 | 1,026 | 0.39 | 0.44 | 56.1 |
| 4/28/2015 22:48:39 | 50.85 | 44.85 | 1,026 | 0.39 | 0.44 | 56.1 |
| 4/28/2015 22:48:39 | 51.18 | 45.18 | 1,026 | 0.38 | 0.46 | 56.1 |
| 4/28/2015 22:48:46 | 51.51 | 45.51 | 0 | 2.82 | 0.51 | 0.0 |
| 4/28/2015 22:48:47 | 51.84 | 45.84 | 116 | 3.64 | 0.51 | 6.4 |
| 4/28/2015 22:48:48 | 52.17 | 46.17 | 245 | 4.25 | 0.49 | 13.4 |
| 4/28/2015 22:48:49 | 52.49 | 46.49 | 351 | 3.92 | 0.47 | 19.2 |
| 4/28/2015 22:48:50 | 52.82 | 46.82 | 348 | 4.65 | 0.50 | 19.0 |
| 4/28/2015 22:48:52 | 53.15 | 47.15 | 285 | 5.25 | 0.52 | 15.6 |
| 4/28/2015 22:48:53 | 53.48 | 47.48 | 243 | 3.64 | 0.48 | 13.3 |
| 4/28/2015 22:48:53 | 53.81 | 47.81 | 317 | 4.02 | 0.49 | 17.3 |
| 4/28/2015 22:48:54 | 54.13 | 48.13 | 388 | 3.59 | 0.48 | 21.2 |
| 4/28/2015 22:48:55 | 54.46 | 48.46 | 403 | 4.49 | 0.50 | 22.1 |
| 4/28/2015 22:48:56 | 54.79 | 48.79 | 352 | 3.58 | 0.50 | 19.3 |
| 4/28/2015 22:48:58 | 55.12 | 49.12 | 283 | 3.41 | 0.51 | 15.5 |
| 4/28/2015 22:49:00 | 55.45 | 49.45 | 257 | 3.39 | 0.50 | 14.1 |
| 4/28/2015 22:49:01 | 55.77 | 49.77 | 267 | 3.31 | 0.50 | 14.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 22:49:03 | 56.10 | 50.10 | 229 | 5.49 | 0.51 | 12.5 |
| 4/28/2015 | 22:49:04 | 56.43 | 50.43 | 174 | 3.69 | 0.51 | 9.5 |
| 4/28/2015 | 22:49:06 | 56.76 | 50.76 | 243 | 3.38 | 0.50 | 13.3 |
| 4/28/2015 | 22:49:08 | 57.09 | 51.09 | 180 | 3.56 | 0.52 | 9.8 |
| 4/28/2015 | 22:49:44 | 57.41 | 51.41 | 38 | 3.83 | 0.51 | 2.1 |
| 4/28/2015 | 22:49:46 | 57.74 | 51.74 | 155 | 3.90 | 0.51 | 8.5 |
| 4/28/2015 | 22:49:49 | 58.07 | 52.07 | 144 | 3.49 | 0.51 | 7.9 |
| 4/28/2015 | 22:49:53 | 58.40 | 52.40 | 98 | 3.45 | 0.51 | 5.4 |
| 4/28/2015 | 22:49:56 | 58.73 | 52.73 | 95 | 3.48 | 0.52 | 5.2 |
| 4/28/2015 | 22:50:00 | 59.06 | 53.06 | 98 | 3.60 | 0.51 | 5.4 |
| 4/28/2015 | 22:50:05 | 59.38 | 53.38 | 66 | 3.31 | 0.52 | 3.6 |
| 4/28/2015 | 22:50:10 | 59.71 | 53.71 | 65 | 3.48 | 0.51 | 3.6 |
| 4/28/2015 | 22:50:15 | 60.04 | 54.04 | 72 | 3.44 | 0.51 | 4.0 |
| 4/28/2015 | 22:50:20 | 60.37 | 54.37 | 66 | 3.44 | 0.52 | 3.6 |
| 4/28/2015 | 22:50:25 | 60.70 | 54.70 | 78 | 3.65 | 0.52 | 4.2 |
| 4/28/2015 | 22:50:29 | 60.99 | 54.99 | 70 | 3.73 | 0.52 | 3.8 |

## I77 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:46:12

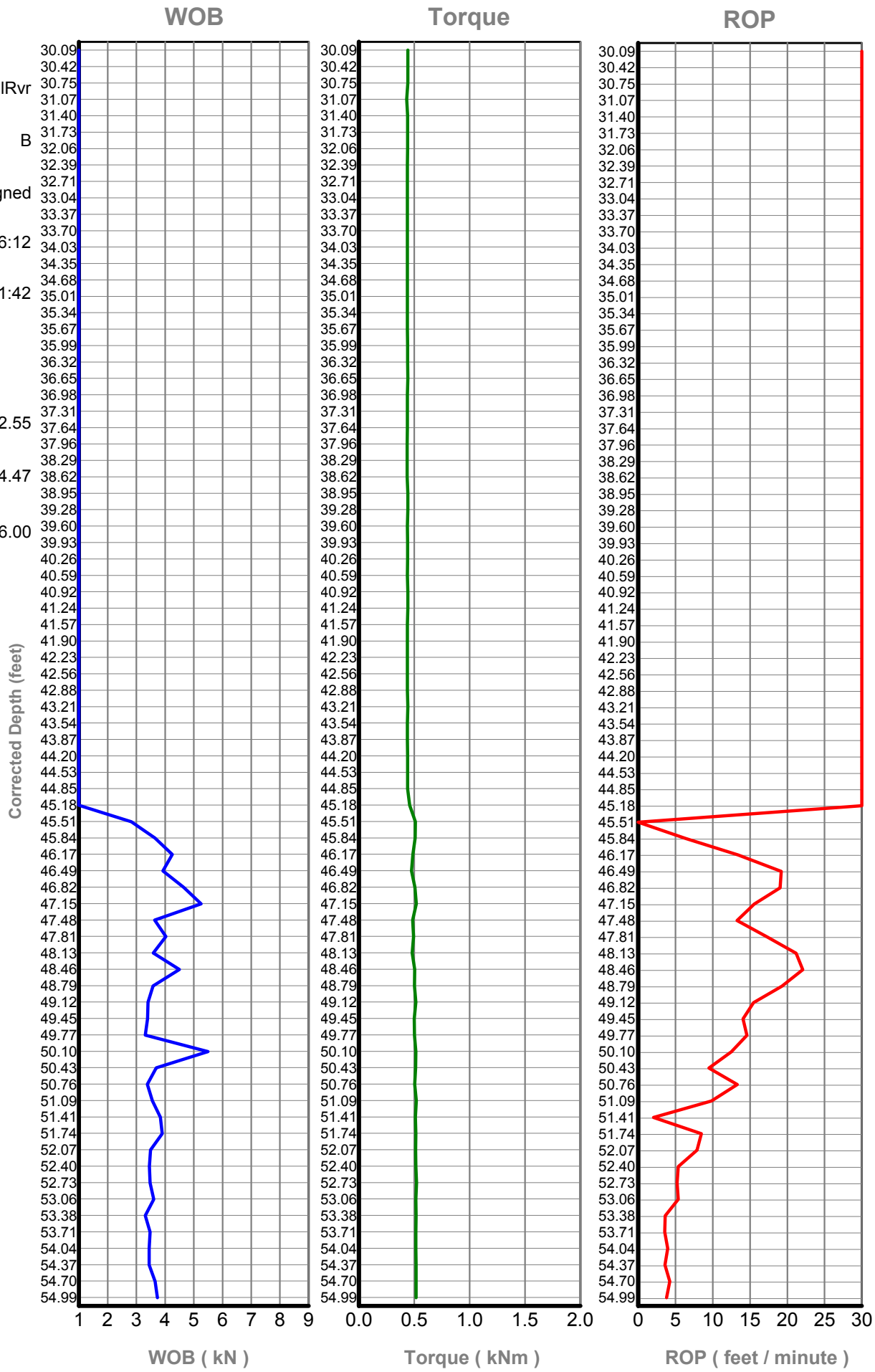
**End Date:**
4/28/2015 22:51:42

**Operator Note:**
'6 6.0b Auto Complete'

**Northing:**
364,342.55

**Easting:**
248,234.47

**Tide (feet):**
6.00



## Hole: I78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/28/2015 22:44:48 | 36.09 | 30.09 | 959 | 1.66 | 0.16 | 52.5 |
| 4/28/2015 22:44:49 | 36.42 | 30.42 | 962 | 1.65 | 0.16 | 52.6 |
| 4/28/2015 22:44:49 | 36.75 | 30.75 | 962 | 1.65 | 0.16 | 52.6 |
| 4/28/2015 22:44:49 | 37.07 | 31.07 | 938 | 1.66 | 0.17 | 51.3 |
| 4/28/2015 22:44:50 | 37.40 | 31.40 | 938 | 1.66 | 0.16 | 51.3 |
| 4/28/2015 22:44:50 | 37.73 | 31.73 | 938 | 1.66 | 0.16 | 51.3 |
| 4/28/2015 22:44:50 | 38.06 | 32.06 | 969 | 1.65 | 0.16 | 53.0 |
| 4/28/2015 22:44:51 | 38.39 | 32.39 | 955 | 1.66 | 0.17 | 52.2 |
| 4/28/2015 22:44:51 | 38.71 | 32.71 | 955 | 1.66 | 0.17 | 52.2 |
| 4/28/2015 22:44:51 | 39.04 | 33.04 | 961 | 1.64 | 0.17 | 52.5 |
| 4/28/2015 22:44:52 | 39.37 | 33.37 | 957 | 1.65 | 0.16 | 52.3 |
| 4/28/2015 22:44:52 | 39.70 | 33.70 | 981 | 1.64 | 0.16 | 53.6 |
| 4/28/2015 22:44:53 | 40.03 | 34.03 | 981 | 1.64 | 0.16 | 53.6 |
| 4/28/2015 22:44:53 | 40.35 | 34.35 | 963 | 1.66 | 0.17 | 52.6 |
| 4/28/2015 22:44:54 | 40.68 | 34.68 | 968 | 1.64 | 0.16 | 53.0 |
| 4/28/2015 22:44:54 | 41.01 | 35.01 | 968 | 1.64 | 0.16 | 53.0 |
| 4/28/2015 22:44:54 | 41.34 | 35.34 | 968 | 1.64 | 0.17 | 53.0 |
| 4/28/2015 22:44:55 | 41.67 | 35.67 | 968 | 1.64 | 0.17 | 53.0 |
| 4/28/2015 22:44:55 | 41.99 | 35.99 | 960 | 1.66 | 0.16 | 52.5 |
| 4/28/2015 22:44:56 | 42.32 | 36.32 | 960 | 1.66 | 0.16 | 52.5 |
| 4/28/2015 22:44:56 | 42.65 | 36.65 | 968 | 1.64 | 0.17 | 53.0 |
| 4/28/2015 22:44:56 | 42.98 | 36.98 | 963 | 1.66 | 0.17 | 52.6 |
| 4/28/2015 22:44:57 | 43.31 | 37.31 | 963 | 1.66 | 0.17 | 52.6 |
| 4/28/2015 22:44:57 | 43.64 | 37.64 | 963 | 1.66 | 0.16 | 52.6 |
| 4/28/2015 22:44:57 | 43.96 | 37.96 | 960 | 1.64 | 0.17 | 52.5 |
| 4/28/2015 22:44:58 | 44.29 | 38.29 | 966 | 1.66 | 0.17 | 52.8 |
| 4/28/2015 22:44:58 | 44.62 | 38.62 | 966 | 1.66 | 0.17 | 52.8 |
| 4/28/2015 22:44:58 | 44.95 | 38.95 | 963 | 1.66 | 0.17 | 52.6 |
| 4/28/2015 22:44:59 | 45.28 | 39.28 | 960 | 1.64 | 0.17 | 52.5 |
| 4/28/2015 22:44:59 | 45.60 | 39.60 | 960 | 1.64 | 0.17 | 52.5 |
| 4/28/2015 22:44:59 | 45.93 | 39.93 | 951 | 1.66 | 0.17 | 52.0 |
| 4/28/2015 22:45:00 | 46.26 | 40.26 | 963 | 1.66 | 0.17 | 52.6 |
| 4/28/2015 22:45:00 | 46.59 | 40.59 | 957 | 1.65 | 0.16 | 52.3 |
| 4/28/2015 22:45:01 | 46.92 | 40.92 | 957 | 1.65 | 0.16 | 52.3 |
| 4/28/2015 22:45:01 | 47.24 | 41.24 | 951 | 1.66 | 0.17 | 52.0 |
| 4/28/2015 22:45:01 | 47.57 | 41.57 | 963 | 1.64 | 0.16 | 52.6 |
| 4/28/2015 22:45:02 | 47.90 | 41.90 | 963 | 1.64 | 0.16 | 52.6 |
| 4/28/2015 22:45:02 | 48.23 | 42.23 | 966 | 1.64 | 0.16 | 52.8 |
| 4/28/2015 22:45:02 | 48.56 | 42.56 | 957 | 1.64 | 0.17 | 52.3 |
| 4/28/2015 22:45:03 | 48.88 | 42.88 | 957 | 1.65 | 0.17 | 52.3 |
| 4/28/2015 22:45:04 | 49.21 | 43.21 | 957 | 1.65 | 0.17 | 52.3 |
| 4/28/2015 22:45:04 | 49.54 | 43.54 | 951 | 1.65 | 0.16 | 52.0 |
| 4/28/2015 22:45:04 | 49.87 | 43.87 | 961 | 1.66 | 0.17 | 52.5 |
| 4/28/2015 22:45:05 | 50.20 | 44.20 | 961 | 1.66 | 0.17 | 52.5 |
| 4/28/2015 22:45:05 | 50.53 | 44.53 | 955 | 1.66 | 0.16 | 52.2 |
| 4/28/2015 22:45:05 | 50.85 | 44.85 | 958 | 1.72 | 0.17 | 52.4 |
| 4/28/2015 22:45:33 | 51.18 | 45.18 | 0 | 1.71 | 1.30 | 0.0 |
| 4/28/2015 22:45:34 | 51.51 | 45.51 | 99 | 1.68 | 1.17 | 5.4 |
| 4/28/2015 22:45:35 | 51.84 | 45.84 | 216 | 1.72 | 1.30 | 11.8 |
| 4/28/2015 22:45:51 | 52.17 | 46.17 | 0 | 1.68 | 1.50 | 0.0 |
| 4/28/2015 22:45:53 | 52.49 | 46.49 | 140 | 1.72 | 1.15 | 7.6 |
| 4/28/2015 22:45:55 | 52.82 | 46.82 | 199 | 1.66 | 1.24 | 10.9 |
| 4/28/2015 22:46:21 | 53.15 | 47.15 | 126 | 1.68 | 1.17 | 6.9 |
| 4/28/2015 22:46:21 | 53.48 | 47.48 | 212 | 1.72 | 1.10 | 11.6 |
| 4/28/2015 22:46:22 | 53.81 | 47.81 | 338 | 1.66 | 1.08 | 18.5 |
| 4/28/2015 22:46:34 | 54.13 | 48.13 | 0 | 1.57 | 0.92 | 0.0 |
| 4/28/2015 22:46:38 | 54.46 | 48.46 | 0 | 1.57 | 0.92 | 0.0 |
| 4/28/2015 22:46:35 | 54.79 | 48.79 | 232 | 1.70 | 1.23 | 12.7 |
| 4/28/2015 22:46:38 | 55.12 | 49.12 | 333 | 1.70 | 1.22 | 18.2 |
| 4/28/2015 22:46:39 | 55.45 | 49.45 | 199 | 1.72 | 1.48 | 10.9 |
| 4/28/2015 22:46:43 | 55.77 | 49.77 | 108 | 1.45 | 1.27 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/28/2015 | 22:46:44 | 56.10 | 50.10 | 219 | 1.68 | 1.27 | 12.0 |
| 4/28/2015 | 22:46:45 | 56.43 | 50.43 | 344 | 1.67 | 1.11 | 18.8 |
| 4/28/2015 | 22:46:56 | 56.76 | 50.76 | 9 | 1.68 | 1.21 | 0.5 |
| 4/28/2015 | 22:46:57 | 57.09 | 51.09 | 63 | 1.65 | 1.15 | 3.4 |
| 4/28/2015 | 22:46:59 | 57.41 | 51.41 | 187 | 1.70 | 1.17 | 10.2 |
| 4/28/2015 | 22:47:12 | 57.74 | 51.74 | 38 | 1.70 | 1.27 | 2.1 |
| 4/28/2015 | 22:47:16 | 58.07 | 52.07 | 95 | 1.72 | 1.23 | 5.2 |
| 4/28/2015 | 22:47:20 | 58.40 | 52.40 | 94 | 1.68 | 1.26 | 5.2 |
| 4/28/2015 | 22:47:23 | 58.73 | 52.73 | 97 | 1.70 | 1.20 | 5.3 |
| 4/28/2015 | 22:47:26 | 59.06 | 53.06 | 119 | 1.70 | 1.30 | 6.5 |
| 4/28/2015 | 22:47:30 | 59.38 | 53.38 | 86 | 1.70 | 1.32 | 4.7 |
| 4/28/2015 | 22:47:35 | 59.71 | 53.71 | 65 | 1.70 | 1.34 | 3.5 |
| 4/28/2015 | 22:47:39 | 60.04 | 54.04 | 91 | 1.72 | 1.30 | 5.0 |
| 4/28/2015 | 22:47:44 | 60.37 | 54.37 | 73 | 1.70 | 1.31 | 4.0 |
| 4/28/2015 | 22:47:49 | 60.70 | 54.70 | 64 | 1.72 | 1.29 | 3.5 |
| 4/28/2015 | 22:47:54 | 60.99 | 54.99 | 67 | 1.75 | 1.35 | 3.7 |

## I78 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/28/2015 22:43:20

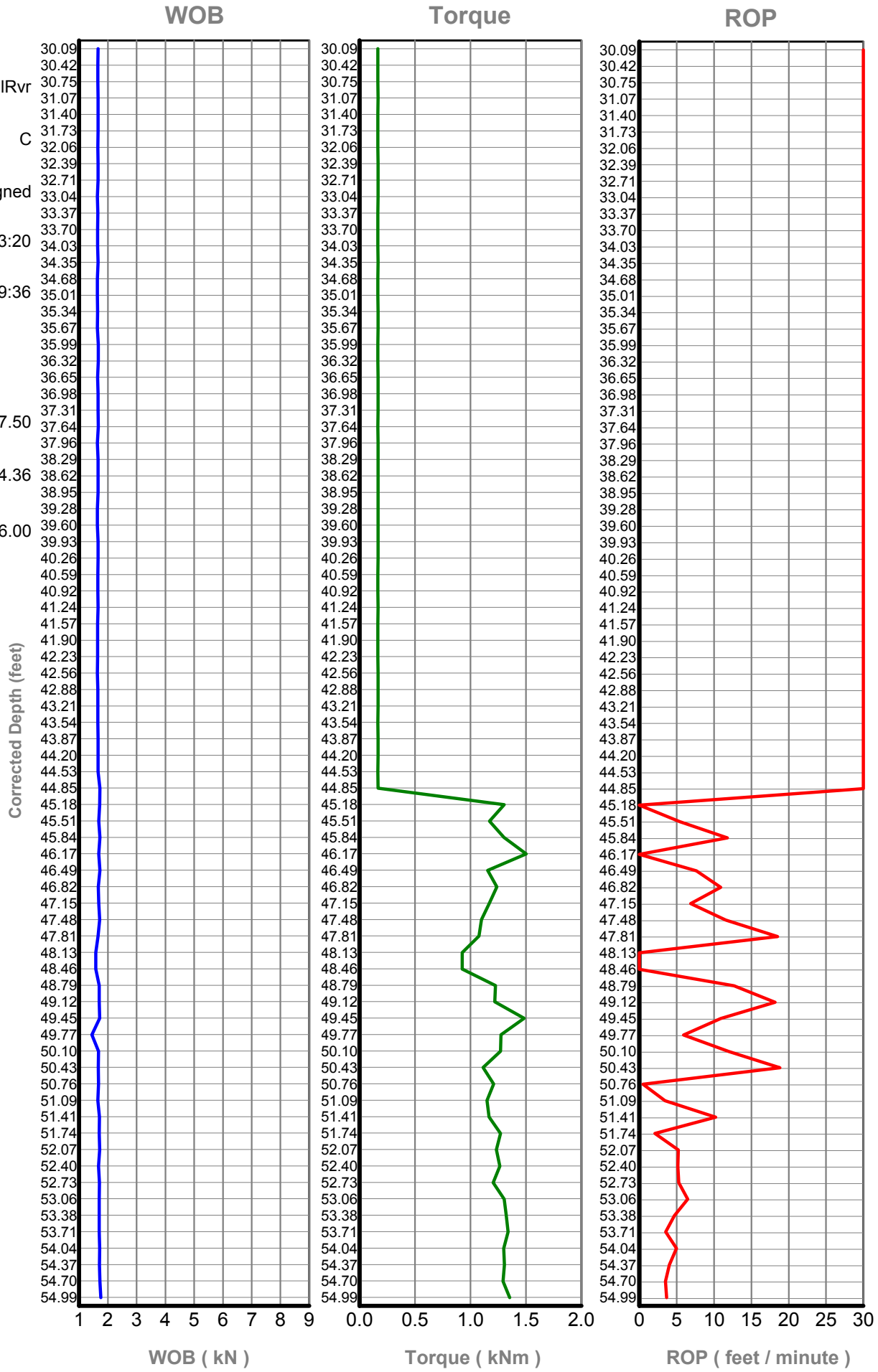
**End Date:**
4/28/2015 22:49:36

**Operator Note:**
'6 6.0 c Auto Complete'

**Northing:**
364,387.50

**Easting:**
248,294.36

**Tide (feet):**
6.00



## Hole: I79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:39:01 | 32.81 | 30.01 | 754 | 1.05 | 0.19 | 41.2 |
| 4/27/2015 17:39:01 | 33.14 | 30.34 | 745 | 1.05 | 0.19 | 40.7 |
| 4/27/2015 17:39:02 | 33.46 | 30.66 | 738 | 1.07 | 0.19 | 40.3 |
| 4/27/2015 17:39:02 | 33.79 | 30.99 | 754 | 1.06 | 0.19 | 41.3 |
| 4/27/2015 17:39:03 | 34.12 | 31.32 | 737 | 1.05 | 0.19 | 40.3 |
| 4/27/2015 17:39:03 | 34.45 | 31.65 | 737 | 1.06 | 0.19 | 40.3 |
| 4/27/2015 17:39:04 | 34.78 | 31.98 | 744 | 1.07 | 0.19 | 40.7 |
| 4/27/2015 17:39:05 | 35.11 | 32.31 | 750 | 1.06 | 0.26 | 41.0 |
| 4/27/2015 17:39:05 | 35.43 | 32.63 | 748 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:39:05 | 35.76 | 32.96 | 748 | 1.07 | 0.19 | 40.9 |
| 4/27/2015 17:39:06 | 36.09 | 33.29 | 748 | 1.05 | 0.19 | 40.9 |
| 4/27/2015 17:39:06 | 36.42 | 33.62 | 750 | 1.05 | 0.19 | 41.0 |
| 4/27/2015 17:39:07 | 36.75 | 33.95 | 750 | 1.05 | 0.19 | 41.0 |
| 4/27/2015 17:39:07 | 37.07 | 34.27 | 768 | 1.05 | 0.20 | 42.0 |
| 4/27/2015 17:39:08 | 37.40 | 34.60 | 759 | 1.07 | 0.19 | 41.5 |
| 4/27/2015 17:39:08 | 37.73 | 34.93 | 756 | 1.05 | 0.19 | 41.4 |
| 4/27/2015 17:39:09 | 38.06 | 35.26 | 771 | 1.06 | 0.19 | 42.2 |
| 4/27/2015 17:39:09 | 38.39 | 35.59 | 773 | 1.05 | 0.19 | 42.3 |
| 4/27/2015 17:39:10 | 38.71 | 35.91 | 766 | 1.07 | 0.19 | 41.9 |
| 4/27/2015 17:39:10 | 39.04 | 36.24 | 766 | 1.07 | 0.19 | 41.9 |
| 4/27/2015 17:39:10 | 39.37 | 36.57 | 764 | 1.06 | 0.19 | 41.8 |
| 4/27/2015 17:39:11 | 39.70 | 36.90 | 772 | 1.06 | 0.19 | 42.2 |
| 4/27/2015 17:39:11 | 40.03 | 37.23 | 766 | 1.06 | 0.19 | 41.9 |
| 4/27/2015 17:39:12 | 40.35 | 37.55 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:39:12 | 40.68 | 37.88 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:39:13 | 41.01 | 38.21 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:39:13 | 41.34 | 38.54 | 757 | 1.06 | 0.19 | 41.4 |
| 4/27/2015 17:39:14 | 41.67 | 38.87 | 757 | 1.04 | 0.19 | 41.4 |
| 4/27/2015 17:39:14 | 41.99 | 39.19 | 756 | 1.06 | 0.19 | 41.3 |
| 4/27/2015 17:39:15 | 42.32 | 39.52 | 756 | 1.06 | 0.19 | 41.3 |
| 4/27/2015 17:39:15 | 42.65 | 39.85 | 763 | 1.06 | 0.19 | 41.7 |
| 4/27/2015 17:39:15 | 42.98 | 40.18 | 760 | 1.05 | 0.19 | 41.6 |
| 4/27/2015 17:39:16 | 43.31 | 40.51 | 760 | 1.05 | 0.19 | 41.6 |
| 4/27/2015 17:39:17 | 43.64 | 40.84 | 760 | 1.06 | 0.19 | 41.6 |
| 4/27/2015 17:39:17 | 43.96 | 41.16 | 765 | 1.06 | 0.19 | 41.8 |
| 4/27/2015 17:39:18 | 44.29 | 41.49 | 755 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 17:39:18 | 44.62 | 41.82 | 757 | 1.05 | 0.19 | 41.4 |
| 4/27/2015 17:39:19 | 44.95 | 42.15 | 760 | 1.05 | 0.19 | 41.6 |
| 4/27/2015 17:39:19 | 45.28 | 42.48 | 763 | 1.07 | 0.19 | 41.7 |
| 4/27/2015 17:39:20 | 45.60 | 42.80 | 763 | 1.07 | 0.19 | 41.7 |
| 4/27/2015 17:39:20 | 45.93 | 43.13 | 757 | 1.05 | 0.19 | 41.4 |
| 4/27/2015 17:39:20 | 46.26 | 43.46 | 757 | 1.05 | 0.19 | 41.4 |
| 4/27/2015 17:39:21 | 46.59 | 43.79 | 752 | 1.06 | 0.19 | 41.1 |
| 4/27/2015 17:39:21 | 46.92 | 44.12 | 747 | 1.06 | 0.19 | 40.8 |
| 4/27/2015 17:39:22 | 47.24 | 44.44 | 744 | 1.05 | 0.19 | 40.7 |
| 4/27/2015 17:39:22 | 47.57 | 44.77 | 755 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 17:39:23 | 47.90 | 45.10 | 751 | 1.05 | 0.19 | 41.0 |
| 4/27/2015 17:39:23 | 48.23 | 45.43 | 761 | 1.09 | 0.19 | 41.6 |
| 4/27/2015 17:39:35 | 48.56 | 45.76 | 38 | 1.09 | 0.85 | 2.1 |
| 4/27/2015 17:39:36 | 48.88 | 46.08 | 158 | 1.10 | 1.15 | 8.7 |
| 4/27/2015 17:39:38 | 49.21 | 46.41 | 272 | 1.15 | 1.21 | 14.8 |
| 4/27/2015 17:39:40 | 49.54 | 46.74 | 186 | 1.11 | 1.26 | 10.1 |
| 4/27/2015 17:39:41 | 49.87 | 47.07 | 249 | 1.13 | 1.18 | 13.6 |
| 4/27/2015 17:39:42 | 50.20 | 47.40 | 299 | 1.11 | 1.33 | 16.4 |
| 4/27/2015 17:39:47 | 50.53 | 47.73 | 17 | 1.10 | 0.99 | 0.9 |
| 4/27/2015 17:39:50 | 50.85 | 48.05 | 178 | 1.06 | 1.09 | 9.8 |
| 4/27/2015 17:39:53 | 51.18 | 48.38 | 92 | 1.05 | 1.14 | 5.1 |
| 4/27/2015 17:39:57 | 51.51 | 48.71 | 90 | 1.09 | 1.23 | 4.9 |
| 4/27/2015 17:40:01 | 51.84 | 49.04 | 105 | 1.10 | 1.17 | 5.7 |
| 4/27/2015 17:40:03 | 52.17 | 49.37 | 138 | 1.10 | 1.12 | 7.5 |
| 4/27/2015 17:40:10 | 52.49 | 49.69 | 43 | 1.02 | 0.92 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:40:18 | 52.82 | 50.02 | 43 | 1.05 | 0.99 | 2.4 |
| 4/27/2015 | 17:40:27 | 53.15 | 50.35 | 37 | 1.05 | 0.93 | 2.0 |
| 4/27/2015 | 17:40:36 | 53.48 | 50.68 | 49 | 1.01 | 1.08 | 2.7 |
| 4/27/2015 | 17:40:37 | 53.53 | 50.73 | 49 | 1.10 | 1.12 | 2.7 |

## I79 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:37:35

**End Date:**
4/27/2015 17:42:14

**Operator Note:**
'2.8 2.6 a Auto Complete'

**Northing:**
364,443.86

**Easting:**
248,353.78

**Tide (feet):**
2.80



## Hole: I8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:18:32 | 34.78 | 30.08 | 1,129 | 0.35 | 0.46 | 61.7 |
| 4/29/2015 0:18:33 | 35.11 | 30.41 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 0:18:33 | 35.43 | 30.73 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 0:18:33 | 35.76 | 31.06 | 1,093 | 0.33 | 0.38 | 59.8 |
| 4/29/2015 0:18:34 | 36.09 | 31.39 | 1,072 | 0.33 | 0.38 | 58.6 |
| 4/29/2015 0:18:34 | 36.42 | 31.72 | 1,072 | 0.33 | 0.38 | 58.6 |
| 4/29/2015 0:18:34 | 36.75 | 32.05 | 1,072 | 0.33 | 0.37 | 58.6 |
| 4/29/2015 0:18:35 | 37.07 | 32.37 | 1,072 | 0.33 | 0.37 | 58.6 |
| 4/29/2015 0:18:35 | 37.40 | 32.70 | 1,067 | 0.33 | 0.35 | 58.3 |
| 4/29/2015 0:18:35 | 37.73 | 33.03 | 1,067 | 0.33 | 0.37 | 58.3 |
| 4/29/2015 0:18:36 | 38.06 | 33.36 | 1,067 | 0.33 | 0.37 | 58.3 |
| 4/29/2015 0:18:36 | 38.39 | 33.69 | 1,076 | 0.33 | 0.37 | 58.8 |
| 4/29/2015 0:18:36 | 38.71 | 34.01 | 1,094 | 0.33 | 0.38 | 59.8 |
| 4/29/2015 0:18:37 | 39.04 | 34.34 | 1,094 | 0.33 | 0.38 | 59.8 |
| 4/29/2015 0:18:37 | 39.37 | 34.67 | 1,094 | 0.33 | 0.38 | 59.8 |
| 4/29/2015 0:18:37 | 39.70 | 35.00 | 1,094 | 0.33 | 0.38 | 59.8 |
| 4/29/2015 0:18:37 | 40.03 | 35.33 | 1,109 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 0:18:38 | 40.35 | 35.65 | 1,114 | 0.33 | 0.37 | 60.9 |
| 4/29/2015 0:18:39 | 40.68 | 35.98 | 1,114 | 0.33 | 0.37 | 60.9 |
| 4/29/2015 0:18:39 | 41.01 | 36.31 | 1,098 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:39 | 41.34 | 36.64 | 1,092 | 0.33 | 0.37 | 59.7 |
| 4/29/2015 0:18:40 | 41.67 | 36.97 | 1,092 | 0.33 | 0.37 | 59.7 |
| 4/29/2015 0:18:40 | 41.99 | 37.29 | 1,101 | 0.33 | 0.37 | 60.2 |
| 4/29/2015 0:18:40 | 42.32 | 37.62 | 1,101 | 0.33 | 0.37 | 60.2 |
| 4/29/2015 0:18:40 | 42.65 | 37.95 | 1,098 | 0.33 | 0.38 | 60.1 |
| 4/29/2015 0:18:41 | 42.98 | 38.28 | 1,101 | 0.33 | 0.38 | 60.2 |
| 4/29/2015 0:18:41 | 43.31 | 38.61 | 1,101 | 0.33 | 0.38 | 60.2 |
| 4/29/2015 0:18:41 | 43.64 | 38.94 | 1,099 | 0.33 | 0.30 | 60.1 |
| 4/29/2015 0:18:42 | 43.96 | 39.26 | 1,105 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:42 | 44.29 | 39.59 | 1,105 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:42 | 44.62 | 39.92 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:43 | 44.95 | 40.25 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:43 | 45.28 | 40.58 | 1,108 | 0.33 | 0.37 | 60.6 |
| 4/29/2015 0:18:43 | 45.60 | 40.90 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:44 | 45.93 | 41.23 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:44 | 46.26 | 41.56 | 1,107 | 0.33 | 0.37 | 60.5 |
| 4/29/2015 0:18:44 | 46.59 | 41.89 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:45 | 46.92 | 42.22 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:45 | 47.24 | 42.54 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:45 | 47.57 | 42.87 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:45 | 47.90 | 43.20 | 1,098 | 0.33 | 0.38 | 60.0 |
| 4/29/2015 0:18:46 | 48.23 | 43.53 | 1,110 | 0.33 | 0.37 | 60.7 |
| 4/29/2015 0:18:46 | 48.56 | 43.86 | 1,110 | 0.33 | 0.37 | 60.7 |
| 4/29/2015 0:18:46 | 48.88 | 44.18 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:47 | 49.21 | 44.51 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:47 | 49.54 | 44.84 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/29/2015 0:18:47 | 49.87 | 45.17 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:48 | 50.20 | 45.50 | 1,099 | 0.33 | 0.37 | 60.1 |
| 4/29/2015 0:18:48 | 50.53 | 45.83 | 1,092 | 0.33 | 0.37 | 59.7 |
| 4/29/2015 0:18:49 | 50.85 | 46.15 | 1,096 | 0.33 | 0.37 | 60.0 |
| 4/29/2015 0:18:49 | 51.18 | 46.48 | 1,096 | 0.33 | 0.37 | 60.0 |
| 4/29/2015 0:18:50 | 51.51 | 46.81 | 685 | 0.29 | 0.41 | 37.5 |
| 4/29/2015 0:18:55 | 51.84 | 47.14 | 0 | 2.81 | 0.41 | 0.0 |
| 4/29/2015 0:18:55 | 52.17 | 47.47 | 129 | 2.84 | 0.43 | 7.1 |
| 4/29/2015 0:18:57 | 52.49 | 47.79 | 218 | 3.00 | 0.43 | 11.9 |
| 4/29/2015 0:18:58 | 52.82 | 48.12 | 333 | 3.39 | 0.43 | 18.2 |
| 4/29/2015 0:19:00 | 53.15 | 48.45 | 289 | 3.06 | 0.45 | 15.8 |
| 4/29/2015 0:19:01 | 53.48 | 48.78 | 256 | 3.21 | 0.44 | 14.0 |
| 4/29/2015 0:19:04 | 53.81 | 49.11 | 162 | 4.11 | 0.37 | 8.8 |
| 4/29/2015 0:19:06 | 54.13 | 49.43 | 153 | 4.40 | 0.46 | 8.4 |
| 4/29/2015 0:19:07 | 54.46 | 49.76 | 172 | 5.74 | 0.45 | 9.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 0:19:09 | 54.79 | 50.09 | 213 | 3.96 | 0.47 | 11.6 |
| 4/29/2015 | 0:19:12 | 55.12 | 50.42 | 133 | 5.75 | 0.48 | 7.3 |
| 4/29/2015 | 0:19:34 | 55.45 | 50.75 | 84 | 3.68 | 0.46 | 4.6 |
| 4/29/2015 | 0:19:37 | 55.77 | 51.07 | 90 | 3.79 | 0.46 | 4.9 |
| 4/29/2015 | 0:19:42 | 56.10 | 51.40 | 92 | 3.83 | 0.46 | 5.1 |
| 4/29/2015 | 0:19:46 | 56.43 | 51.73 | 73 | 4.05 | 0.46 | 4.0 |
| 4/29/2015 | 0:19:50 | 56.76 | 52.06 | 96 | 4.13 | 0.46 | 5.2 |
| 4/29/2015 | 0:19:55 | 57.09 | 52.39 | 58 | 3.18 | 0.46 | 3.2 |
| 4/29/2015 | 0:20:01 | 57.41 | 52.71 | 55 | 3.27 | 0.46 | 3.0 |
| 4/29/2015 | 0:20:07 | 57.74 | 53.04 | 61 | 3.54 | 0.47 | 3.3 |
| 4/29/2015 | 0:20:14 | 58.07 | 53.37 | 46 | 2.87 | 0.46 | 2.5 |

## I8 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:16:54

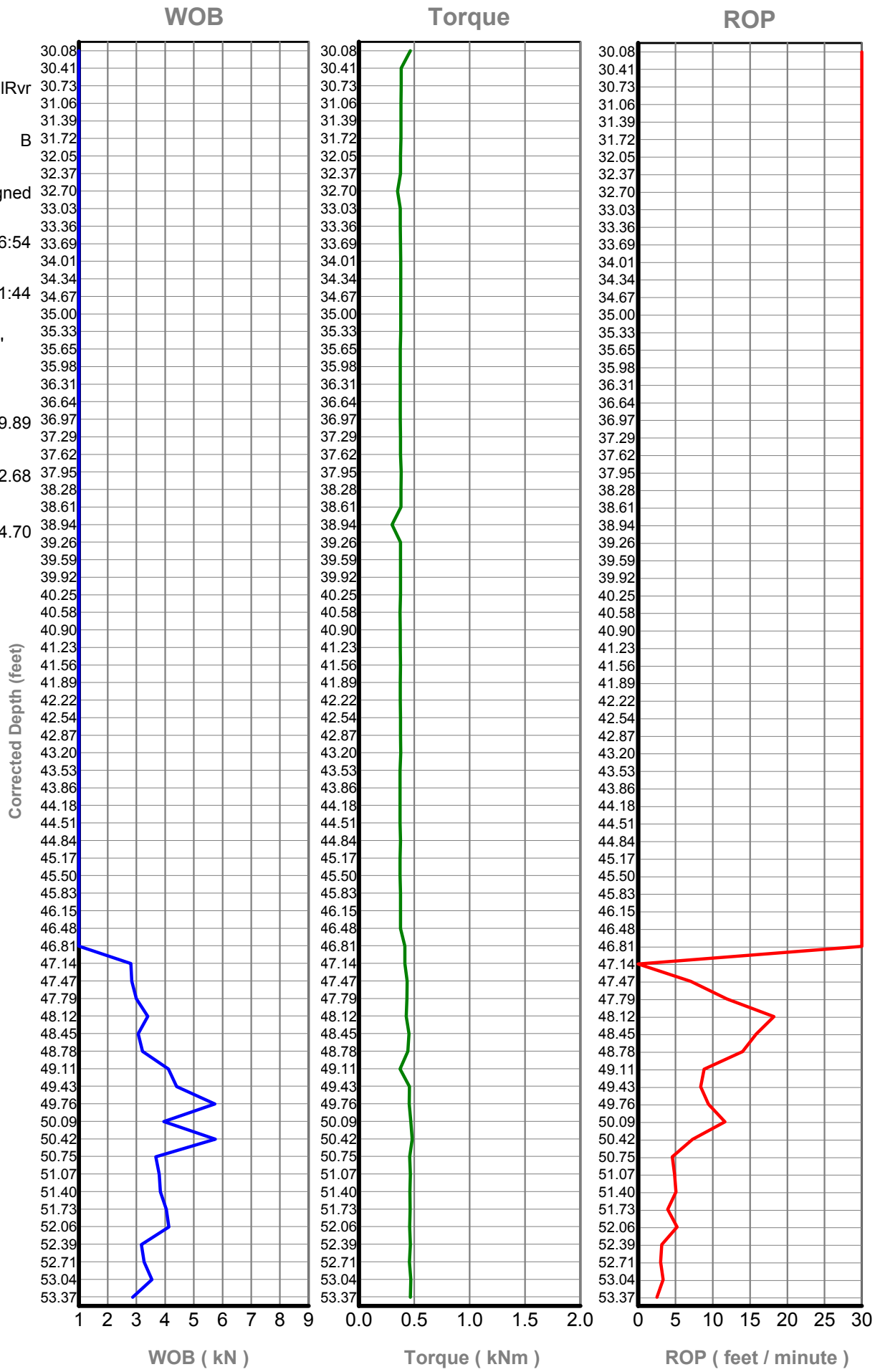
**End Date:**
4/29/2015 0:21:44

**Operator Note:**
'4.7 4.8b Auto Complete'

**Northing:**
364,689.89

**Easting:**
247,952.68

**Tide (feet):**
4.70



## Hole: I80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:39:08 | 32.81 | 30.01 | 1,126 | 0.36 | 0.32 | 61.6 |
| 4/27/2015 17:39:08 | 33.14 | 30.34 | 1,114 | 0.30 | 0.33 | 60.9 |
| 4/27/2015 17:39:09 | 33.46 | 30.66 | 1,102 | 0.36 | 0.32 | 60.2 |
| 4/27/2015 17:39:09 | 33.79 | 30.99 | 1,102 | 0.36 | 0.32 | 60.2 |
| 4/27/2015 17:39:09 | 34.12 | 31.32 | 1,136 | 0.29 | 0.33 | 62.1 |
| 4/27/2015 17:39:10 | 34.45 | 31.65 | 1,136 | 0.29 | 0.33 | 62.1 |
| 4/27/2015 17:39:10 | 34.78 | 31.98 | 1,124 | 0.29 | 0.32 | 61.4 |
| 4/27/2015 17:39:10 | 35.11 | 32.31 | 1,139 | 0.29 | 0.33 | 62.3 |
| 4/27/2015 17:39:11 | 35.43 | 32.63 | 1,139 | 0.29 | 0.33 | 62.3 |
| 4/27/2015 17:39:11 | 35.76 | 32.96 | 1,128 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 17:39:11 | 36.09 | 33.29 | 1,128 | 0.29 | 0.32 | 61.7 |
| 4/27/2015 17:39:11 | 36.42 | 33.62 | 1,142 | 0.29 | 0.32 | 62.4 |
| 4/27/2015 17:39:12 | 36.75 | 33.95 | 1,097 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 17:39:12 | 37.07 | 34.27 | 1,097 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 17:39:13 | 37.40 | 34.60 | 1,101 | 0.29 | 0.33 | 60.2 |
| 4/27/2015 17:39:13 | 37.73 | 34.93 | 1,104 | 0.25 | 0.32 | 60.4 |
| 4/27/2015 17:39:14 | 38.06 | 35.26 | 1,104 | 0.25 | 0.32 | 60.4 |
| 4/27/2015 17:39:14 | 38.39 | 35.59 | 1,107 | 0.29 | 0.33 | 60.6 |
| 4/27/2015 17:39:14 | 38.71 | 35.91 | 1,107 | 0.29 | 0.33 | 60.6 |
| 4/27/2015 17:39:14 | 39.04 | 36.24 | 1,097 | 0.29 | 0.32 | 60.0 |
| 4/27/2015 17:39:15 | 39.37 | 36.57 | 1,097 | 0.29 | 0.33 | 60.0 |
| 4/27/2015 17:39:15 | 39.70 | 36.90 | 1,097 | 0.29 | 0.33 | 60.0 |
| 4/27/2015 17:39:15 | 40.03 | 37.23 | 1,149 | 0.29 | 0.33 | 62.8 |
| 4/27/2015 17:39:16 | 40.35 | 37.55 | 1,149 | 0.29 | 0.33 | 62.8 |
| 4/27/2015 17:39:16 | 40.68 | 37.88 | 1,145 | 0.29 | 0.32 | 62.6 |
| 4/27/2015 17:39:16 | 41.01 | 38.21 | 1,135 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 17:39:17 | 41.34 | 38.54 | 1,135 | 0.29 | 0.32 | 62.1 |
| 4/27/2015 17:39:17 | 41.67 | 38.87 | 1,139 | 0.29 | 0.32 | 62.3 |
| 4/27/2015 17:39:17 | 41.99 | 39.19 | 1,139 | 0.29 | 0.32 | 62.3 |
| 4/27/2015 17:39:17 | 42.32 | 39.52 | 1,142 | 0.29 | 0.33 | 62.4 |
| 4/27/2015 17:39:18 | 42.65 | 39.85 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 17:39:18 | 42.98 | 40.18 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 17:39:18 | 43.31 | 40.51 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 17:39:19 | 43.64 | 40.84 | 1,106 | 0.29 | 0.32 | 60.5 |
| 4/27/2015 17:39:19 | 43.96 | 41.16 | 1,115 | 0.29 | 0.32 | 61.0 |
| 4/27/2015 17:39:19 | 44.29 | 41.49 | 1,131 | 0.29 | 0.33 | 61.8 |
| 4/27/2015 17:39:20 | 44.62 | 41.82 | 1,131 | 0.29 | 0.33 | 61.8 |
| 4/27/2015 17:39:20 | 44.95 | 42.15 | 1,125 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:39:20 | 45.28 | 42.48 | 1,125 | 0.29 | 0.33 | 61.5 |
| 4/27/2015 17:39:21 | 45.60 | 42.80 | 1,125 | 0.29 | 0.33 | 61.5 |
| 4/27/2015 17:39:21 | 45.93 | 43.13 | 1,132 | 0.29 | 0.32 | 61.9 |
| 4/27/2015 17:39:21 | 46.26 | 43.46 | 1,132 | 0.29 | 0.32 | 61.9 |
| 4/27/2015 17:39:21 | 46.59 | 43.79 | 1,109 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 17:39:22 | 46.92 | 44.12 | 1,084 | 0.28 | 0.33 | 59.3 |
| 4/27/2015 17:39:22 | 47.24 | 44.44 | 1,084 | 0.28 | 0.33 | 59.3 |
| 4/27/2015 17:39:22 | 47.57 | 44.77 | 1,098 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 17:39:23 | 47.90 | 45.10 | 1,098 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 17:39:23 | 48.23 | 45.43 | 1,098 | 0.28 | 0.33 | 60.0 |
| 4/27/2015 17:39:23 | 48.56 | 45.76 | 1,084 | 0.86 | 0.38 | 59.3 |
| 4/27/2015 17:39:39 | 48.88 | 46.08 | 52 | 2.66 | 0.41 | 2.8 |
| 4/27/2015 17:39:47 | 49.21 | 46.41 | 44 | 3.18 | 0.41 | 2.4 |
| 4/27/2015 17:39:53 | 49.54 | 46.74 | 75 | 3.73 | 0.40 | 4.1 |
| 4/27/2015 17:39:54 | 49.87 | 47.07 | 173 | 3.01 | 0.40 | 9.5 |
| 4/27/2015 17:40:03 | 50.20 | 47.40 | 40 | 3.39 | 0.41 | 2.2 |
| 4/27/2015 17:40:12 | 50.53 | 47.73 | 40 | 2.84 | 0.41 | 2.2 |
| 4/27/2015 17:40:13 | 50.61 | 47.81 | 43 | 3.20 | 0.41 | 2.4 |

## I80 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:37:04

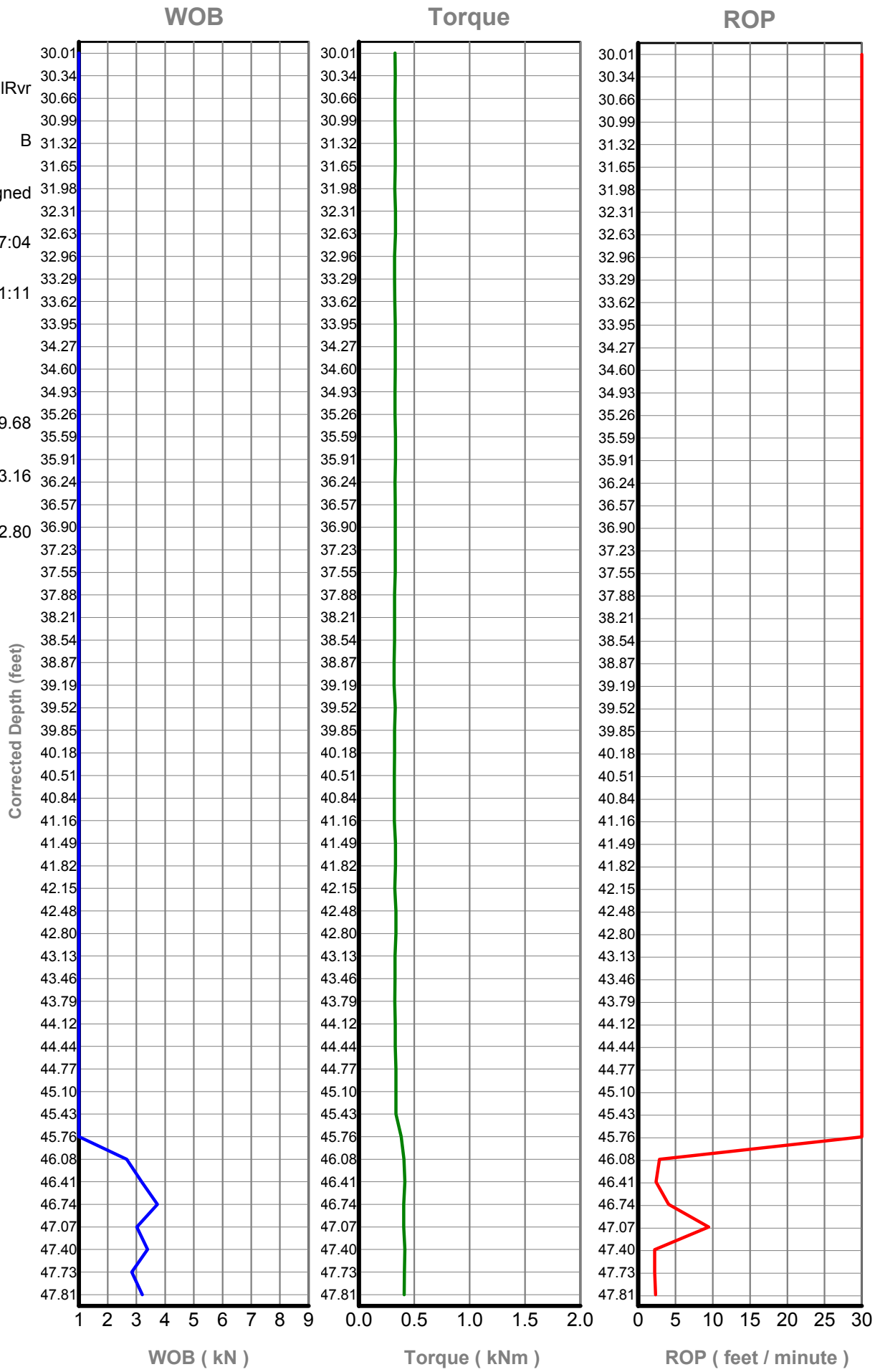
**End Date:**
4/27/2015 17:41:11

**Operator Note:**
'2.8 2.6 b Rock'

**Northing:**
364,489.68

**Easting:**
248,413.16

**Tide (feet):**
2.80



## Hole: I81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:38:55 | 32.81 | 30.01 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:38:55 | 33.14 | 30.34 | 1,104 | 1.59 | 0.28 | 60.4 |
| 4/27/2015 17:38:56 | 33.46 | 30.66 | 1,101 | 1.60 | 0.28 | 60.2 |
| 4/27/2015 17:38:56 | 33.79 | 30.99 | 1,101 | 1.60 | 0.28 | 60.2 |
| 4/27/2015 17:38:56 | 34.12 | 31.32 | 1,119 | 1.69 | 0.28 | 61.2 |
| 4/27/2015 17:38:57 | 34.45 | 31.65 | 1,119 | 1.69 | 0.28 | 61.2 |
| 4/27/2015 17:38:57 | 34.78 | 31.98 | 1,102 | 1.59 | 0.21 | 60.3 |
| 4/27/2015 17:38:57 | 35.11 | 32.31 | 1,117 | 1.59 | 0.28 | 61.1 |
| 4/27/2015 17:38:58 | 35.43 | 32.63 | 1,117 | 1.59 | 0.28 | 61.1 |
| 4/27/2015 17:38:58 | 35.76 | 32.96 | 1,110 | 1.60 | 0.29 | 60.7 |
| 4/27/2015 17:38:58 | 36.09 | 33.29 | 1,110 | 1.60 | 0.29 | 60.7 |
| 4/27/2015 17:38:58 | 36.42 | 33.62 | 1,110 | 1.61 | 0.29 | 60.7 |
| 4/27/2015 17:38:59 | 36.75 | 33.95 | 1,107 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 17:38:59 | 37.07 | 34.27 | 1,107 | 1.60 | 0.29 | 60.5 |
| 4/27/2015 17:38:59 | 37.40 | 34.60 | 1,107 | 1.58 | 0.29 | 60.5 |
| 4/27/2015 17:39:00 | 37.73 | 34.93 | 1,120 | 1.60 | 0.30 | 61.2 |
| 4/27/2015 17:39:00 | 38.06 | 35.26 | 1,120 | 1.60 | 0.30 | 61.2 |
| 4/27/2015 17:39:00 | 38.39 | 35.59 | 1,110 | 1.61 | 0.82 | 60.7 |
| 4/27/2015 17:39:01 | 38.71 | 35.91 | 1,110 | 1.61 | 0.82 | 60.7 |
| 4/27/2015 17:39:01 | 39.04 | 36.24 | 1,100 | 1.61 | 0.84 | 60.2 |
| 4/27/2015 17:39:01 | 39.37 | 36.57 | 1,107 | 1.60 | 0.84 | 60.5 |
| 4/27/2015 17:39:02 | 39.70 | 36.90 | 1,107 | 1.60 | 0.84 | 60.5 |
| 4/27/2015 17:39:02 | 40.03 | 37.23 | 1,110 | 1.60 | 0.29 | 60.7 |
| 4/27/2015 17:39:02 | 40.35 | 37.55 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 17:39:03 | 40.68 | 37.88 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 17:39:03 | 41.01 | 38.21 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 17:39:03 | 41.34 | 38.54 | 1,104 | 1.59 | 0.29 | 60.4 |
| 4/27/2015 17:39:03 | 41.67 | 38.87 | 1,107 | 1.61 | 0.29 | 60.5 |
| 4/27/2015 17:39:04 | 41.99 | 39.19 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 17:39:04 | 42.32 | 39.52 | 1,110 | 1.59 | 0.29 | 60.7 |
| 4/27/2015 17:39:04 | 42.65 | 39.85 | 1,104 | 1.60 | 0.29 | 60.4 |
| 4/27/2015 17:39:05 | 42.98 | 40.18 | 1,104 | 1.59 | 0.28 | 60.4 |
| 4/27/2015 17:39:05 | 43.31 | 40.51 | 1,104 | 1.59 | 0.28 | 60.4 |
| 4/27/2015 17:39:05 | 43.64 | 40.84 | 1,104 | 1.61 | 0.29 | 60.4 |
| 4/27/2015 17:39:06 | 43.96 | 41.16 | 1,104 | 1.61 | 0.29 | 60.4 |
| 4/27/2015 17:39:06 | 44.29 | 41.49 | 1,104 | 1.61 | 0.29 | 60.4 |
| 4/27/2015 17:39:07 | 44.62 | 41.82 | 1,101 | 1.68 | 0.29 | 60.2 |
| 4/27/2015 17:39:23 | 44.95 | 42.15 | 83 | 1.67 | 1.22 | 4.6 |
| 4/27/2015 17:39:28 | 45.28 | 42.48 | 61 | 1.64 | 1.26 | 3.4 |
| 4/27/2015 17:39:40 | 45.60 | 42.80 | 46 | 1.66 | 1.18 | 2.5 |
| 4/27/2015 17:39:47 | 45.93 | 43.13 | 46 | 1.67 | 1.21 | 2.5 |
| 4/27/2015 17:39:54 | 46.26 | 43.46 | 52 | 1.66 | 1.34 | 2.8 |
| 4/27/2015 17:40:02 | 46.59 | 43.79 | 46 | 1.64 | 1.19 | 2.5 |
| 4/27/2015 17:40:09 | 46.92 | 44.12 | 56 | 1.66 | 1.38 | 3.1 |
| 4/27/2015 17:40:14 | 47.17 | 44.37 | 46 | 1.68 | 1.21 | 2.5 |

## I81 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:37:53

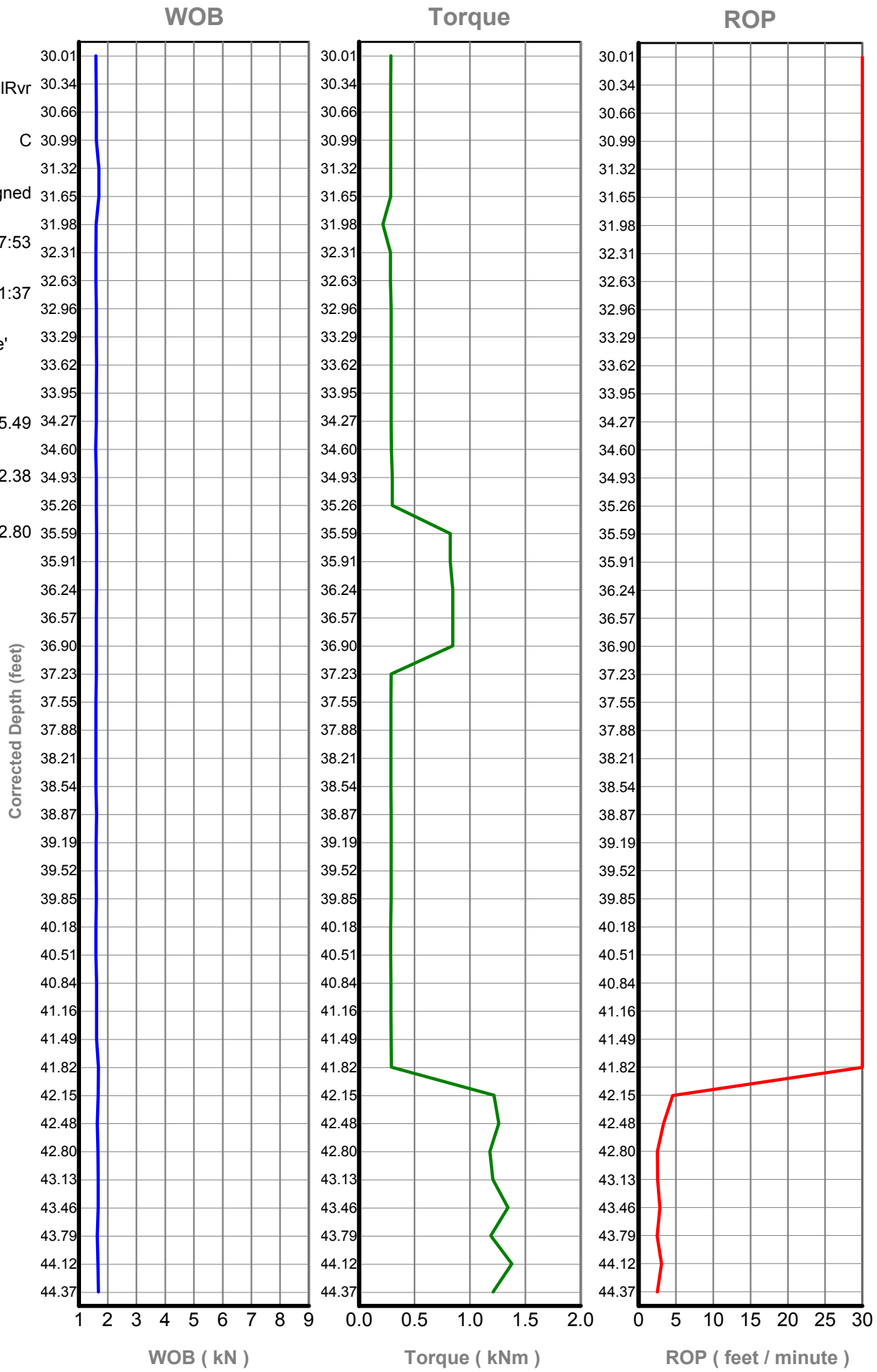
**End Date:**
4/27/2015 17:41:37

**Operator Note:**
'2.8 2.6 c Auto Complete'

**Northing:**
364,535.49

**Easting:**
248,472.38

**Tide (feet):**
2.80



## Hole: I82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:50:38 | 30.84 | 30.14 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 14:50:39 | 31.17 | 30.47 | 691 | 1.10 | 0.21 | 37.8 |
| 4/27/2015 14:50:39 | 31.50 | 30.80 | 687 | 1.10 | 0.21 | 37.5 |
| 4/27/2015 14:50:40 | 31.82 | 31.12 | 694 | 1.11 | 0.21 | 37.9 |
| 4/27/2015 14:50:40 | 32.15 | 31.45 | 691 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 14:50:41 | 32.48 | 31.78 | 691 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 14:50:41 | 32.81 | 32.11 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 14:50:42 | 33.14 | 32.44 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 14:50:42 | 33.46 | 32.76 | 683 | 1.11 | 0.21 | 37.3 |
| 4/27/2015 14:50:43 | 33.79 | 33.09 | 692 | 1.10 | 0.21 | 37.8 |
| 4/27/2015 14:50:43 | 34.12 | 33.42 | 686 | 1.11 | 0.21 | 37.5 |
| 4/27/2015 14:50:44 | 34.45 | 33.75 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 14:50:44 | 34.78 | 34.08 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 14:50:45 | 35.11 | 34.41 | 712 | 1.10 | 0.21 | 38.9 |
| 4/27/2015 14:50:45 | 35.43 | 34.73 | 703 | 1.10 | 0.21 | 38.4 |
| 4/27/2015 14:50:46 | 35.76 | 35.06 | 708 | 1.10 | 0.21 | 38.7 |
| 4/27/2015 14:50:46 | 36.09 | 35.39 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 14:50:47 | 36.42 | 35.72 | 697 | 1.10 | 0.21 | 38.1 |
| 4/27/2015 14:50:48 | 36.75 | 36.05 | 690 | 1.10 | 0.21 | 37.7 |
| 4/27/2015 14:50:48 | 37.07 | 36.37 | 697 | 1.09 | 0.21 | 38.1 |
| 4/27/2015 14:50:49 | 37.40 | 36.70 | 697 | 1.09 | 0.21 | 38.1 |
| 4/27/2015 14:50:49 | 37.73 | 37.03 | 684 | 1.10 | 0.21 | 37.4 |
| 4/27/2015 14:50:49 | 38.06 | 37.36 | 684 | 1.09 | 0.21 | 37.4 |
| 4/27/2015 14:50:50 | 38.39 | 37.69 | 693 | 1.09 | 0.21 | 37.9 |
| 4/27/2015 14:50:50 | 38.71 | 38.01 | 700 | 1.10 | 0.21 | 38.3 |
| 4/27/2015 14:50:51 | 39.04 | 38.34 | 707 | 1.10 | 0.21 | 38.7 |
| 4/27/2015 14:50:51 | 39.37 | 38.67 | 705 | 1.10 | 0.21 | 38.5 |
| 4/27/2015 14:50:52 | 39.70 | 39.00 | 709 | 1.11 | 0.21 | 38.8 |
| 4/27/2015 14:50:52 | 40.03 | 39.33 | 704 | 1.09 | 0.21 | 38.5 |
| 4/27/2015 14:50:53 | 40.35 | 39.65 | 698 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 14:50:53 | 40.68 | 39.98 | 691 | 1.11 | 0.21 | 37.8 |
| 4/27/2015 14:50:54 | 41.01 | 40.31 | 687 | 1.09 | 0.21 | 37.6 |
| 4/27/2015 14:50:54 | 41.34 | 40.64 | 698 | 1.10 | 0.21 | 38.2 |
| 4/27/2015 14:50:55 | 41.67 | 40.97 | 694 | 1.09 | 0.21 | 37.9 |
| 4/27/2015 14:50:55 | 41.99 | 41.29 | 697 | 1.09 | 0.21 | 38.1 |
| 4/27/2015 14:50:56 | 42.32 | 41.62 | 696 | 1.10 | 0.21 | 38.0 |
| 4/27/2015 14:50:56 | 42.65 | 41.95 | 700 | 1.10 | 0.21 | 38.3 |
| 4/27/2015 14:50:57 | 42.98 | 42.28 | 694 | 1.11 | 0.19 | 37.9 |
| 4/27/2015 14:50:58 | 43.31 | 42.61 | 694 | 1.09 | 0.21 | 37.9 |
| 4/27/2015 14:50:58 | 43.64 | 42.94 | 686 | 1.09 | 0.21 | 37.5 |
| 4/27/2015 14:50:59 | 43.96 | 43.26 | 698 | 1.11 | 0.21 | 38.2 |
| 4/27/2015 14:50:59 | 44.29 | 43.59 | 694 | 1.10 | 0.21 | 38.0 |
| 4/27/2015 14:51:00 | 44.62 | 43.92 | 694 | 1.09 | 0.21 | 38.0 |
| 4/27/2015 14:51:00 | 44.95 | 44.25 | 694 | 1.10 | 0.21 | 38.0 |
| 4/27/2015 14:51:01 | 45.28 | 44.58 | 698 | 1.12 | 0.21 | 38.2 |
| 4/27/2015 14:51:20 | 45.60 | 44.90 | 108 | 1.16 | 1.39 | 5.9 |
| 4/27/2015 14:51:27 | 45.93 | 45.23 | 78 | 1.02 | 1.06 | 4.3 |
| 4/27/2015 14:51:34 | 46.26 | 45.56 | 51 | 1.14 | 1.00 | 2.8 |
| 4/27/2015 14:51:42 | 46.59 | 45.89 | 46 | 1.05 | 0.97 | 2.5 |
| 4/27/2015 14:51:49 | 46.92 | 46.22 | 49 | 1.12 | 1.06 | 2.7 |
| 4/27/2015 14:51:53 | 47.24 | 46.54 | 104 | 1.17 | 1.15 | 5.7 |
| 4/27/2015 14:51:57 | 47.54 | 46.84 | 98 | 0.85 | 1.19 | 5.3 |

## I82 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:49:01

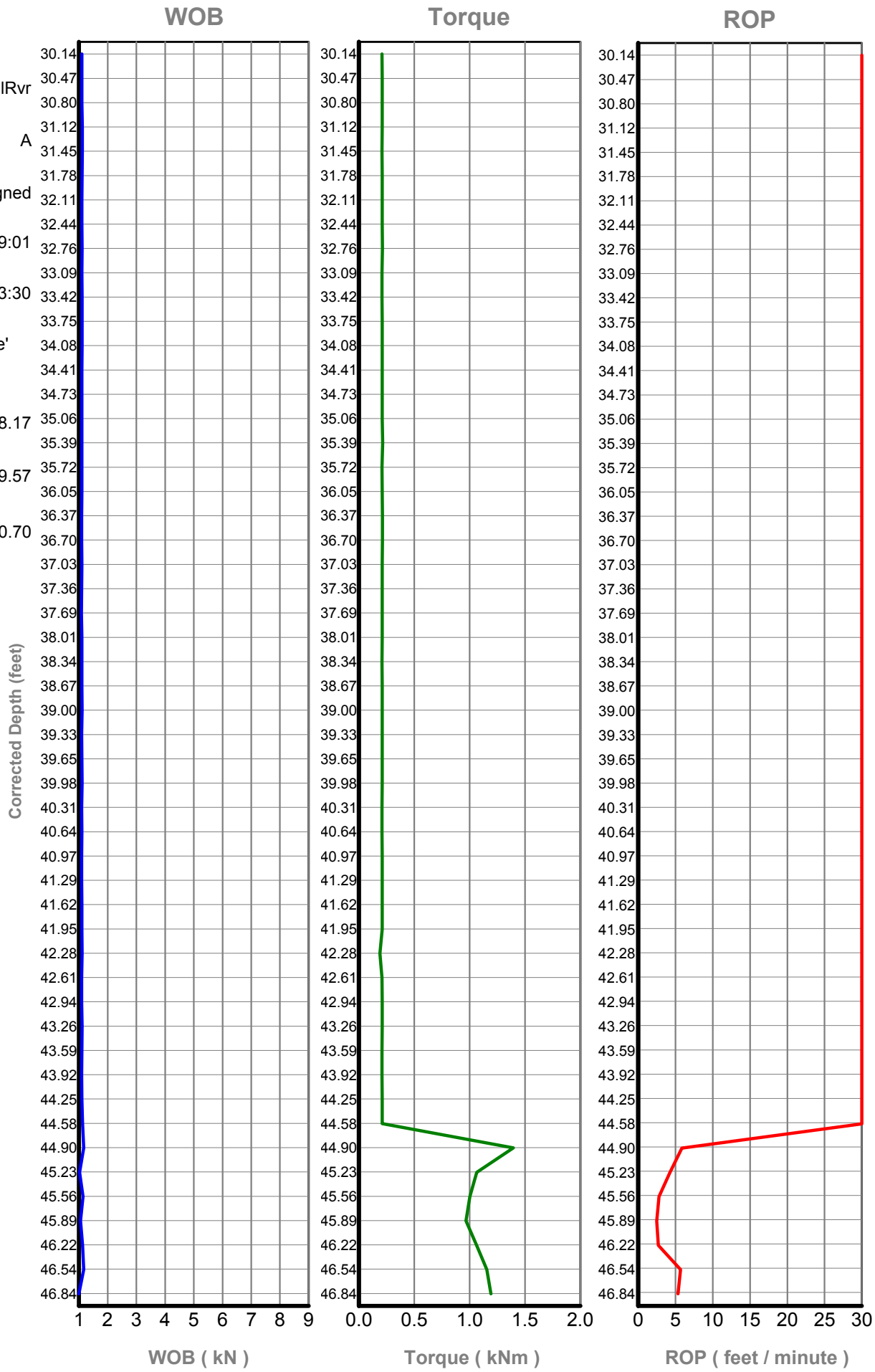
**End Date:**
4/27/2015 14:53:30

**Operator Note:**
'0.7 0.8 a Auto Complete'

**Northing:**
364,578.17

**Easting:**
248,529.57

**Tide (feet):**
0.70



## Hole: I83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:50:23 | 30.84 | 30.14 | 1,134 | 0.27 | 0.32 | 62.0 |
| 4/27/2015 14:50:23 | 31.17 | 30.47 | 1,131 | 0.27 | 0.32 | 61.8 |
| 4/27/2015 14:50:24 | 31.50 | 30.80 | 1,131 | 0.27 | 0.32 | 61.8 |
| 4/27/2015 14:50:24 | 31.82 | 31.12 | 1,128 | 0.27 | 0.31 | 61.7 |
| 4/27/2015 14:50:24 | 32.15 | 31.45 | 1,134 | 0.27 | 0.31 | 62.0 |
| 4/27/2015 14:50:25 | 32.48 | 31.78 | 1,134 | 0.27 | 0.31 | 62.0 |
| 4/27/2015 14:50:25 | 32.81 | 32.11 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 14:50:25 | 33.14 | 32.44 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 14:50:25 | 33.46 | 32.76 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:26 | 33.79 | 33.09 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:26 | 34.12 | 33.42 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:26 | 34.45 | 33.75 | 1,112 | 0.27 | 0.32 | 60.8 |
| 4/27/2015 14:50:27 | 34.78 | 34.08 | 1,100 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 14:50:27 | 35.11 | 34.41 | 1,100 | 0.27 | 0.32 | 60.1 |
| 4/27/2015 14:50:27 | 35.43 | 34.73 | 1,100 | 0.27 | 0.33 | 60.1 |
| 4/27/2015 14:50:28 | 35.76 | 35.06 | 1,100 | 0.27 | 0.33 | 60.1 |
| 4/27/2015 14:50:28 | 36.09 | 35.39 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 14:50:28 | 36.42 | 35.72 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 14:50:29 | 36.75 | 36.05 | 1,101 | 0.27 | 0.32 | 60.2 |
| 4/27/2015 14:50:29 | 37.07 | 36.37 | 1,106 | 0.27 | 0.32 | 60.5 |
| 4/27/2015 14:50:30 | 37.40 | 36.70 | 1,106 | 0.27 | 0.32 | 60.5 |
| 4/27/2015 14:50:30 | 37.73 | 37.03 | 1,114 | 0.27 | 0.31 | 60.9 |
| 4/27/2015 14:50:30 | 38.06 | 37.36 | 1,123 | 0.27 | 0.32 | 61.4 |
| 4/27/2015 14:50:31 | 38.39 | 37.69 | 1,123 | 0.27 | 0.32 | 61.4 |
| 4/27/2015 14:50:31 | 38.71 | 38.01 | 1,109 | 0.27 | 0.32 | 60.6 |
| 4/27/2015 14:50:31 | 39.04 | 38.34 | 1,109 | 0.27 | 0.32 | 60.6 |
| 4/27/2015 14:50:31 | 39.37 | 38.67 | 1,122 | 0.28 | 0.31 | 61.3 |
| 4/27/2015 14:50:32 | 39.70 | 39.00 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:32 | 40.03 | 39.33 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:32 | 40.35 | 39.65 | 1,119 | 0.27 | 0.32 | 61.2 |
| 4/27/2015 14:50:33 | 40.68 | 39.98 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 14:50:33 | 41.01 | 40.31 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 14:50:33 | 41.34 | 40.64 | 1,126 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 14:50:34 | 41.67 | 40.97 | 1,126 | 0.28 | 0.32 | 61.6 |
| 4/27/2015 14:50:34 | 41.99 | 41.29 | 1,116 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 14:50:34 | 42.32 | 41.62 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 14:50:35 | 42.65 | 41.95 | 1,113 | 0.28 | 0.32 | 60.9 |
| 4/27/2015 14:50:35 | 42.98 | 42.28 | 1,106 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:50:35 | 43.31 | 42.61 | 1,106 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:50:35 | 43.64 | 42.94 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 14:50:36 | 43.96 | 43.26 | 1,106 | 0.27 | 0.32 | 60.5 |
| 4/27/2015 14:50:36 | 44.29 | 43.59 | 1,106 | 0.27 | 0.32 | 60.5 |
| 4/27/2015 14:50:36 | 44.62 | 43.92 | 1,110 | 0.28 | 0.32 | 60.7 |
| 4/27/2015 14:50:37 | 44.95 | 44.25 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 14:50:37 | 45.28 | 44.58 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 14:50:37 | 45.60 | 44.90 | 1,115 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 14:50:38 | 45.93 | 45.23 | 1,115 | 0.28 | 0.32 | 61.0 |
| 4/27/2015 14:50:38 | 46.26 | 45.56 | 1,074 | 0.28 | 0.32 | 58.7 |
| 4/27/2015 14:50:38 | 46.59 | 45.89 | 1,074 | 0.26 | 0.36 | 58.7 |
| 4/27/2015 14:50:39 | 46.92 | 46.22 | 1,061 | 0.25 | 0.40 | 58.0 |
| 4/27/2015 14:50:47 | 47.24 | 46.54 | 78 | 3.81 | 0.40 | 4.3 |
| 4/27/2015 14:50:51 | 47.57 | 46.87 | 48 | 3.62 | 0.40 | 2.6 |
| 4/27/2015 14:50:52 | 47.90 | 47.20 | 120 | 3.92 | 0.38 | 6.6 |
| 4/27/2015 14:50:52 | 48.23 | 47.53 | 120 | 3.01 | 0.38 | 6.6 |
| 4/27/2015 14:51:03 | 48.56 | 47.86 | 57 | 3.26 | 0.39 | 3.1 |
| 4/27/2015 14:51:04 | 48.88 | 48.18 | 211 | 3.25 | 0.39 | 11.5 |
| 4/27/2015 14:51:12 | 49.21 | 48.51 | 49 | 3.44 | 0.40 | 2.7 |
| 4/27/2015 14:51:16 | 49.54 | 48.84 | 81 | 3.39 | 0.41 | 4.4 |
| 4/27/2015 14:51:22 | 49.87 | 49.17 | 57 | 3.38 | 0.40 | 3.1 |
| 4/27/2015 14:51:29 | 50.20 | 49.50 | 43 | 2.86 | 0.40 | 2.4 |
| 4/27/2015 14:51:37 | 50.53 | 49.83 | 54 | 2.97 | 0.40 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:51:38 | 50.65 | 49.95 | 59 | 2.87 | 0.40 | 3.2 |

## I83 - Summary

**Pattern Number:**
Area1_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:48:18

**End Date:**
4/27/2015 14:52:53

**Operator Note:**
'0.7 0.8 b Auto Complete'

**Northing:**
364,624.73

**Easting:**
248,588.05

**Tide (feet):**
0.70



## Hole: I84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:51:08 | 30.84 | 30.14 | 1,139 | 1.59 | 0.27 | 62.3 |
| 4/27/2015 14:51:09 | 31.17 | 30.47 | 1,139 | 1.59 | 0.27 | 62.3 |
| 4/27/2015 14:51:09 | 31.50 | 30.80 | 1,142 | 1.61 | 0.27 | 62.4 |
| 4/27/2015 14:51:09 | 31.82 | 31.12 | 1,142 | 1.61 | 0.27 | 62.4 |
| 4/27/2015 14:51:09 | 32.15 | 31.45 | 1,139 | 1.59 | 0.27 | 62.3 |
| 4/27/2015 14:51:10 | 32.48 | 31.78 | 1,136 | 1.63 | 0.28 | 62.1 |
| 4/27/2015 14:51:10 | 32.81 | 32.11 | 1,136 | 1.63 | 0.28 | 62.1 |
| 4/27/2015 14:51:10 | 33.14 | 32.44 | 1,129 | 1.58 | 0.27 | 61.7 |
| 4/27/2015 14:51:11 | 33.46 | 32.76 | 1,129 | 1.58 | 0.27 | 61.7 |
| 4/27/2015 14:51:11 | 33.79 | 33.09 | 1,139 | 1.59 | 0.27 | 62.3 |
| 4/27/2015 14:51:11 | 34.12 | 33.42 | 1,133 | 1.58 | 0.27 | 62.0 |
| 4/27/2015 14:51:12 | 34.45 | 33.75 | 1,133 | 1.58 | 0.27 | 62.0 |
| 4/27/2015 14:51:12 | 34.78 | 34.08 | 1,129 | 1.57 | 0.27 | 61.7 |
| 4/27/2015 14:51:12 | 35.11 | 34.41 | 1,129 | 1.57 | 0.27 | 61.7 |
| 4/27/2015 14:51:12 | 35.43 | 34.73 | 1,136 | 1.59 | 0.27 | 62.1 |
| 4/27/2015 14:51:13 | 35.76 | 35.06 | 1,136 | 1.57 | 0.27 | 62.1 |
| 4/27/2015 14:51:13 | 36.09 | 35.39 | 1,136 | 1.57 | 0.27 | 62.1 |
| 4/27/2015 14:51:13 | 36.42 | 35.72 | 1,136 | 1.62 | 0.26 | 62.1 |
| 4/27/2015 14:51:14 | 36.75 | 36.05 | 1,136 | 1.62 | 0.26 | 62.1 |
| 4/27/2015 14:51:14 | 37.07 | 36.37 | 1,136 | 1.58 | 0.27 | 62.1 |
| 4/27/2015 14:51:14 | 37.40 | 36.70 | 1,133 | 1.60 | 0.26 | 62.0 |
| 4/27/2015 14:51:15 | 37.73 | 37.03 | 1,133 | 1.60 | 0.26 | 62.0 |
| 4/27/2015 14:51:15 | 38.06 | 37.36 | 1,136 | 1.59 | 0.27 | 62.1 |
| 4/27/2015 14:51:15 | 38.39 | 37.69 | 1,136 | 1.59 | 0.27 | 62.1 |
| 4/27/2015 14:51:15 | 38.71 | 38.01 | 1,133 | 1.60 | 0.27 | 62.0 |
| 4/27/2015 14:51:16 | 39.04 | 38.34 | 1,123 | 1.59 | 0.27 | 61.4 |
| 4/27/2015 14:51:16 | 39.37 | 38.67 | 1,123 | 1.59 | 0.27 | 61.4 |
| 4/27/2015 14:51:16 | 39.70 | 39.00 | 1,130 | 1.59 | 0.27 | 61.8 |
| 4/27/2015 14:51:17 | 40.03 | 39.33 | 1,130 | 1.59 | 0.27 | 61.8 |
| 4/27/2015 14:51:17 | 40.35 | 39.65 | 1,136 | 1.59 | 0.27 | 62.1 |
| 4/27/2015 14:51:18 | 40.68 | 39.98 | 1,133 | 1.62 | 0.27 | 62.0 |
| 4/27/2015 14:51:18 | 41.01 | 40.31 | 1,133 | 1.62 | 0.27 | 62.0 |
| 4/27/2015 14:51:18 | 41.34 | 40.64 | 1,133 | 1.59 | 0.27 | 62.0 |
| 4/27/2015 14:51:19 | 41.67 | 40.97 | 1,130 | 1.59 | 0.27 | 61.8 |
| 4/27/2015 14:51:19 | 41.99 | 41.29 | 1,130 | 1.59 | 0.27 | 61.8 |
| 4/27/2015 14:51:19 | 42.32 | 41.62 | 1,133 | 1.59 | 0.28 | 62.0 |
| 4/27/2015 14:51:20 | 42.65 | 41.95 | 1,133 | 1.59 | 0.28 | 62.0 |
| 4/27/2015 14:51:20 | 42.98 | 42.28 | 1,127 | 1.59 | 0.28 | 61.7 |
| 4/27/2015 14:51:20 | 43.31 | 42.61 | 1,127 | 1.60 | 0.27 | 61.7 |
| 4/27/2015 14:51:21 | 43.64 | 42.94 | 1,127 | 1.60 | 0.27 | 61.7 |
| 4/27/2015 14:51:21 | 43.96 | 43.26 | 1,125 | 1.59 | 0.27 | 61.5 |
| 4/27/2015 14:51:21 | 44.29 | 43.59 | 1,125 | 1.59 | 0.27 | 61.5 |
| 4/27/2015 14:51:21 | 44.62 | 43.92 | 1,130 | 1.59 | 0.28 | 61.8 |
| 4/27/2015 14:51:22 | 44.95 | 44.25 | 1,124 | 1.65 | 0.28 | 61.5 |
| 4/27/2015 14:51:35 | 45.28 | 44.58 | 0 | 1.75 | 1.28 | 0.0 |
| 4/27/2015 14:51:36 | 45.60 | 44.90 | 63 | 1.72 | 0.96 | 3.4 |
| 4/27/2015 14:51:36 | 45.93 | 45.23 | 221 | 1.68 | 1.12 | 12.1 |
| 4/27/2015 14:51:37 | 46.26 | 45.56 | 355 | 1.80 | 1.12 | 19.4 |
| 4/27/2015 14:51:38 | 46.59 | 45.89 | 489 | 1.69 | 1.21 | 26.8 |
| 4/27/2015 14:51:38 | 46.92 | 46.22 | 617 | 1.74 | 1.04 | 33.7 |
| 4/27/2015 14:52:33 | 47.24 | 46.54 | 38 | 1.70 | 1.39 | 2.1 |
| 4/27/2015 14:52:58 | 47.57 | 46.87 | 14 | 1.74 | 1.24 | 0.8 |
| 4/27/2015 14:52:59 | 47.90 | 47.20 | 151 | 1.70 | 1.33 | 8.2 |
| 4/27/2015 14:53:00 | 48.23 | 47.53 | 307 | 1.71 | 1.33 | 16.8 |
| 4/27/2015 14:53:00 | 48.56 | 47.86 | 393 | 1.72 | 1.32 | 21.5 |
| 4/27/2015 14:53:34 | 48.88 | 48.18 | 0 | 1.72 | 1.19 | 0.0 |
| 4/27/2015 14:53:35 | 49.21 | 48.51 | 85 | 1.73 | 1.17 | 4.6 |
| 4/27/2015 14:53:35 | 49.54 | 48.84 | 210 | 1.68 | 1.11 | 11.5 |
| 4/27/2015 14:53:38 | 49.87 | 49.17 | 274 | 1.63 | 0.85 | 15.0 |
| 4/27/2015 14:54:38 | 50.20 | 49.50 | 86 | 1.77 | 1.23 | 4.7 |
| 4/27/2015 14:54:39 | 50.53 | 49.83 | 183 | 1.76 | 1.11 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:55:24 | 50.85 | 50.15 | 6 | 1.75 | 1.15 | 0.3 |
| 4/27/2015 | 14:55:25 | 51.18 | 50.48 | 174 | 1.66 | 1.13 | 9.5 |
| 4/27/2015 | 14:55:26 | 51.51 | 50.81 | 296 | 1.76 | 1.32 | 16.2 |
| 4/27/2015 | 14:55:28 | 51.84 | 51.14 | 282 | 1.73 | 1.21 | 15.4 |
| 4/27/2015 | 14:55:58 | 52.17 | 51.47 | 6 | 1.73 | 1.24 | 0.3 |
| 4/27/2015 | 14:56:01 | 52.49 | 51.79 | 131 | 1.72 | 1.15 | 7.1 |
| 4/27/2015 | 14:56:04 | 52.82 | 52.12 | 124 | 1.70 | 1.17 | 6.8 |
| 4/27/2015 | 14:56:07 | 53.15 | 52.45 | 110 | 1.71 | 1.21 | 6.0 |
| 4/27/2015 | 14:56:11 | 53.48 | 52.78 | 110 | 1.71 | 1.23 | 6.0 |
| 4/27/2015 | 14:56:20 | 53.81 | 53.11 | 0 | 1.70 | 0.88 | 0.0 |
| 4/27/2015 | 14:56:23 | 54.13 | 53.43 | 107 | 1.72 | 1.14 | 5.8 |
| 4/27/2015 | 14:56:27 | 54.46 | 53.76 | 95 | 1.72 | 1.15 | 5.2 |
| 4/27/2015 | 14:56:30 | 54.79 | 54.09 | 107 | 1.69 | 1.19 | 5.8 |
| 4/27/2015 | 14:56:33 | 55.12 | 54.42 | 147 | 1.72 | 1.13 | 8.1 |
| 4/27/2015 | 14:56:34 | 55.45 | 54.75 | 181 | 1.69 | 1.15 | 9.9 |
| 4/27/2015 | 14:56:43 | 55.77 | 55.07 | 44 | 1.72 | 1.38 | 2.4 |
| 4/27/2015 | 14:56:43 | 55.83 | 55.13 | 44 | 1.72 | 1.38 | 2.4 |

## I84 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/27/2015 14:50:16

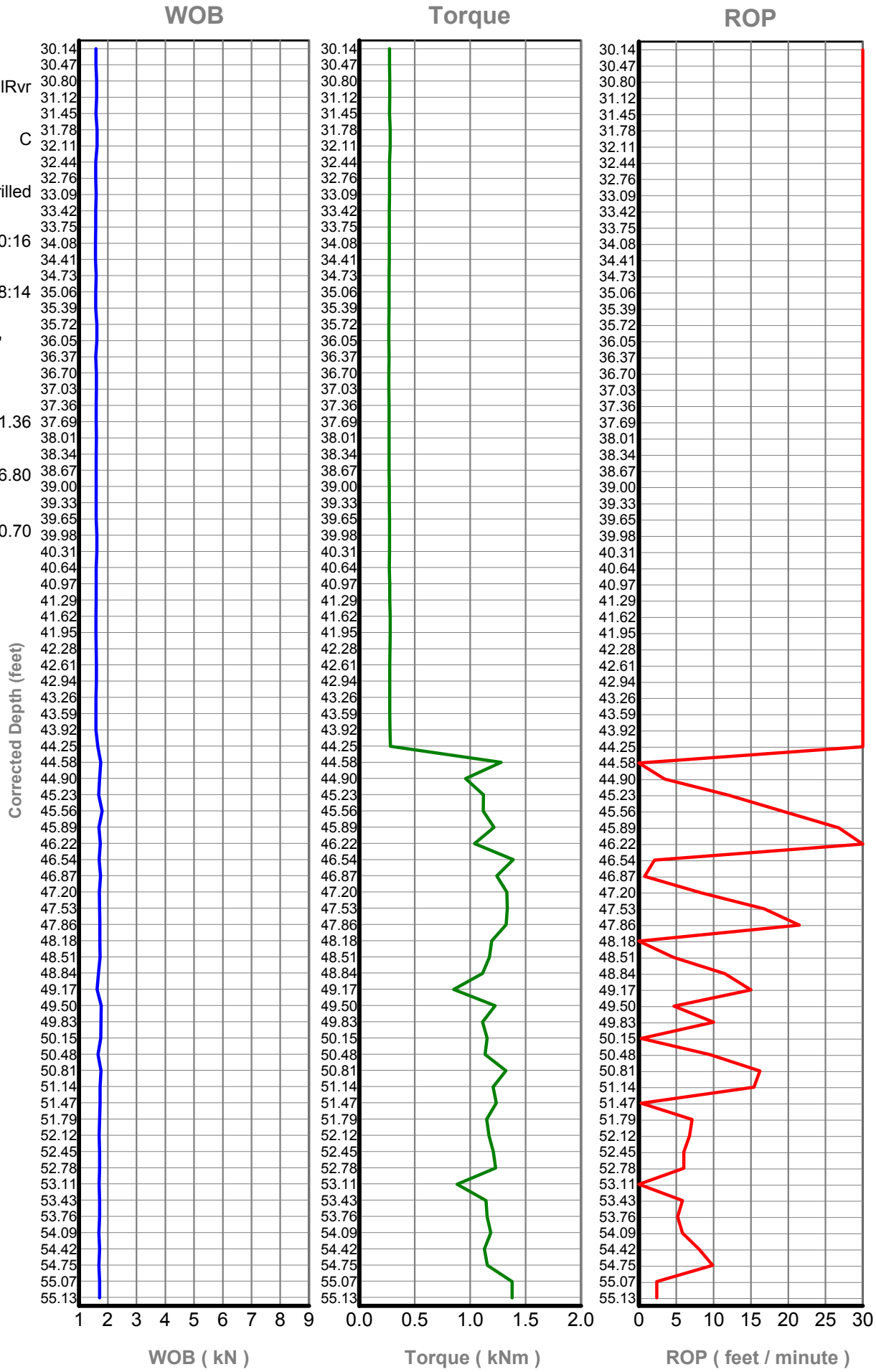
**End Date:**
4/27/2015 14:58:14

**Operator Note:**
'0.7 .8 C Auto Complete'

**Northing:**
364,671.36

**Easting:**
248,646.80

**Tide (feet):**
0.70



## Hole: I85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:09:15 | 32.81 | 30.11 | 779 | 1.02 | 0.19 | 42.6 |
| 4/29/2015 2:09:16 | 33.14 | 30.44 | 779 | 1.02 | 0.19 | 42.6 |
| 4/29/2015 2:09:16 | 33.46 | 30.76 | 779 | 1.03 | 0.19 | 42.6 |
| 4/29/2015 2:09:16 | 33.79 | 31.09 | 797 | 1.03 | 0.19 | 43.6 |
| 4/29/2015 2:09:17 | 34.12 | 31.42 | 790 | 1.04 | 0.19 | 43.2 |
| 4/29/2015 2:09:17 | 34.45 | 31.75 | 793 | 1.02 | 0.18 | 43.4 |
| 4/29/2015 2:09:18 | 34.78 | 32.08 | 795 | 1.01 | 0.18 | 43.5 |
| 4/29/2015 2:09:19 | 35.11 | 32.41 | 805 | 1.05 | 0.19 | 44.0 |
| 4/29/2015 2:09:19 | 35.43 | 32.73 | 795 | 1.03 | 0.19 | 43.5 |
| 4/29/2015 2:09:20 | 35.76 | 33.06 | 795 | 1.03 | 0.19 | 43.5 |
| 4/29/2015 2:09:20 | 36.09 | 33.39 | 803 | 1.02 | 0.19 | 43.9 |
| 4/29/2015 2:09:20 | 36.42 | 33.72 | 792 | 1.02 | 0.19 | 43.3 |
| 4/29/2015 2:09:21 | 36.75 | 34.05 | 792 | 1.02 | 0.19 | 43.3 |
| 4/29/2015 2:09:21 | 37.07 | 34.37 | 795 | 1.01 | 0.18 | 43.5 |
| 4/29/2015 2:09:22 | 37.40 | 34.70 | 798 | 1.03 | 0.18 | 43.6 |
| 4/29/2015 2:09:22 | 37.73 | 35.03 | 795 | 1.02 | 0.18 | 43.5 |
| 4/29/2015 2:09:23 | 38.06 | 35.36 | 795 | 1.02 | 0.18 | 43.5 |
| 4/29/2015 2:09:23 | 38.39 | 35.69 | 798 | 1.03 | 0.18 | 43.6 |
| 4/29/2015 2:09:23 | 38.71 | 36.01 | 789 | 1.03 | 0.18 | 43.1 |
| 4/29/2015 2:09:24 | 39.04 | 36.34 | 801 | 1.02 | 0.18 | 43.8 |
| 4/29/2015 2:09:24 | 39.37 | 36.67 | 799 | 1.02 | 0.18 | 43.7 |
| 4/29/2015 2:09:25 | 39.70 | 37.00 | 799 | 1.03 | 0.19 | 43.7 |
| 4/29/2015 2:09:25 | 40.03 | 37.33 | 799 | 1.04 | 0.18 | 43.7 |
| 4/29/2015 2:09:26 | 40.35 | 37.65 | 799 | 1.04 | 0.18 | 43.7 |
| 4/29/2015 2:09:26 | 40.68 | 37.98 | 806 | 1.01 | 0.19 | 44.1 |
| 4/29/2015 2:09:26 | 41.01 | 38.31 | 795 | 1.03 | 0.19 | 43.5 |
| 4/29/2015 2:09:27 | 41.34 | 38.64 | 795 | 1.02 | 0.18 | 43.5 |
| 4/29/2015 2:09:27 | 41.67 | 38.97 | 790 | 1.01 | 0.18 | 43.2 |
| 4/29/2015 2:09:28 | 41.99 | 39.29 | 795 | 1.02 | 0.18 | 43.5 |
| 4/29/2015 2:09:29 | 42.32 | 39.62 | 792 | 1.02 | 0.18 | 43.3 |
| 4/29/2015 2:09:29 | 42.65 | 39.95 | 792 | 1.02 | 0.18 | 43.3 |
| 4/29/2015 2:09:29 | 42.98 | 40.28 | 792 | 1.02 | 0.18 | 43.3 |
| 4/29/2015 2:09:30 | 43.31 | 40.61 | 792 | 1.01 | 0.18 | 43.3 |
| 4/29/2015 2:09:30 | 43.64 | 40.94 | 792 | 1.05 | 0.18 | 43.3 |
| 4/29/2015 2:09:31 | 43.96 | 41.26 | 792 | 1.01 | 0.18 | 43.3 |
| 4/29/2015 2:09:31 | 44.29 | 41.59 | 789 | 1.03 | 0.18 | 43.2 |
| 4/29/2015 2:09:32 | 44.62 | 41.92 | 787 | 1.02 | 0.18 | 43.0 |
| 4/29/2015 2:09:32 | 44.95 | 42.25 | 789 | 1.03 | 0.18 | 43.2 |
| 4/29/2015 2:09:33 | 45.28 | 42.58 | 789 | 1.03 | 0.18 | 43.2 |
| 4/29/2015 2:09:33 | 45.60 | 42.90 | 789 | 1.01 | 0.18 | 43.2 |
| 4/29/2015 2:09:33 | 45.93 | 43.23 | 786 | 1.01 | 0.18 | 43.0 |
| 4/29/2015 2:09:34 | 46.26 | 43.56 | 786 | 1.02 | 0.18 | 43.0 |
| 4/29/2015 2:09:34 | 46.59 | 43.89 | 786 | 1.04 | 0.18 | 43.0 |
| 4/29/2015 2:09:35 | 46.92 | 44.22 | 781 | 1.03 | 0.18 | 42.7 |
| 4/29/2015 2:09:35 | 47.24 | 44.54 | 783 | 1.04 | 0.19 | 42.8 |
| 4/29/2015 2:09:36 | 47.57 | 44.87 | 779 | 1.07 | 0.18 | 42.6 |
| 4/29/2015 2:09:38 | 47.90 | 45.20 | 293 | 1.07 | 0.18 | 16.0 |
| 4/29/2015 2:10:14 | 48.23 | 45.53 | 0 | 1.04 | 0.62 | 0.0 |
| 4/29/2015 2:10:15 | 48.56 | 45.86 | 88 | 1.03 | 1.17 | 4.8 |
| 4/29/2015 2:10:16 | 48.88 | 46.18 | 259 | 1.12 | 1.24 | 14.2 |
| 4/29/2015 2:10:20 | 49.21 | 46.51 | 103 | 1.07 | 1.39 | 5.6 |
| 4/29/2015 2:10:26 | 49.54 | 46.84 | 24 | 1.11 | 0.95 | 1.3 |
| 4/29/2015 2:10:28 | 49.87 | 47.17 | 117 | 1.11 | 1.12 | 6.4 |
| 4/29/2015 2:10:29 | 50.20 | 47.50 | 189 | 1.12 | 0.90 | 10.3 |
| 4/29/2015 2:10:31 | 50.53 | 47.83 | 282 | 1.13 | 1.16 | 15.4 |
| 4/29/2015 2:10:33 | 50.85 | 48.15 | 151 | 1.24 | 1.13 | 8.2 |
| 4/29/2015 2:10:37 | 51.18 | 48.48 | 76 | 1.17 | 1.30 | 4.2 |
| 4/29/2015 2:10:42 | 51.51 | 48.81 | 70 | 1.07 | 1.20 | 3.8 |
| 4/29/2015 2:10:45 | 51.84 | 49.14 | 97 | 1.09 | 1.35 | 5.3 |
| 4/29/2015 2:10:47 | 52.17 | 49.47 | 128 | 1.09 | 1.09 | 7.0 |
| 4/29/2015 2:10:50 | 52.49 | 49.79 | 129 | 1.05 | 1.49 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:10:52 | 52.82 | 50.12 | 161 | 1.09 | 0.91 | 8.8 |
| 4/29/2015 | 2:10:53 | 53.15 | 50.45 | 192 | 1.08 | 0.92 | 10.5 |
| 4/29/2015 | 2:10:54 | 53.48 | 50.78 | 264 | 1.11 | 0.86 | 14.4 |
| 4/29/2015 | 2:10:55 | 53.81 | 51.11 | 284 | 1.12 | 1.04 | 15.5 |
| 4/29/2015 | 2:10:57 | 54.13 | 51.43 | 204 | 1.10 | 1.13 | 11.1 |
| 4/29/2015 | 2:10:59 | 54.46 | 51.76 | 176 | 1.11 | 1.19 | 9.6 |
| 4/29/2015 | 2:11:03 | 54.79 | 52.09 | 101 | 1.12 | 1.11 | 5.5 |
| 4/29/2015 | 2:11:06 | 55.12 | 52.42 | 98 | 1.10 | 1.01 | 5.4 |
| 4/29/2015 | 2:11:10 | 55.45 | 52.75 | 107 | 1.00 | 0.98 | 5.9 |
| 4/29/2015 | 2:11:11 | 55.77 | 53.07 | 156 | 0.98 | 0.88 | 8.5 |
| 4/29/2015 | 2:11:12 | 56.10 | 53.40 | 260 | 1.09 | 0.80 | 14.2 |
| 4/29/2015 | 2:11:13 | 56.43 | 53.73 | 305 | 1.08 | 0.80 | 16.7 |
| 4/29/2015 | 2:11:16 | 56.76 | 54.06 | 150 | 1.11 | 0.96 | 8.2 |
| 4/29/2015 | 2:11:21 | 57.09 | 54.39 | 78 | 1.09 | 1.09 | 4.3 |
| 4/29/2015 | 2:11:28 | 57.41 | 54.71 | 76 | 0.98 | 1.13 | 4.2 |
| 4/29/2015 | 2:11:36 | 57.74 | 55.04 | 20 | 1.00 | 0.81 | 1.1 |
| 4/29/2015 | 2:11:45 | 57.87 | 55.17 | 9 | 1.30 | 0.83 | 0.5 |

## I85 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:07:06

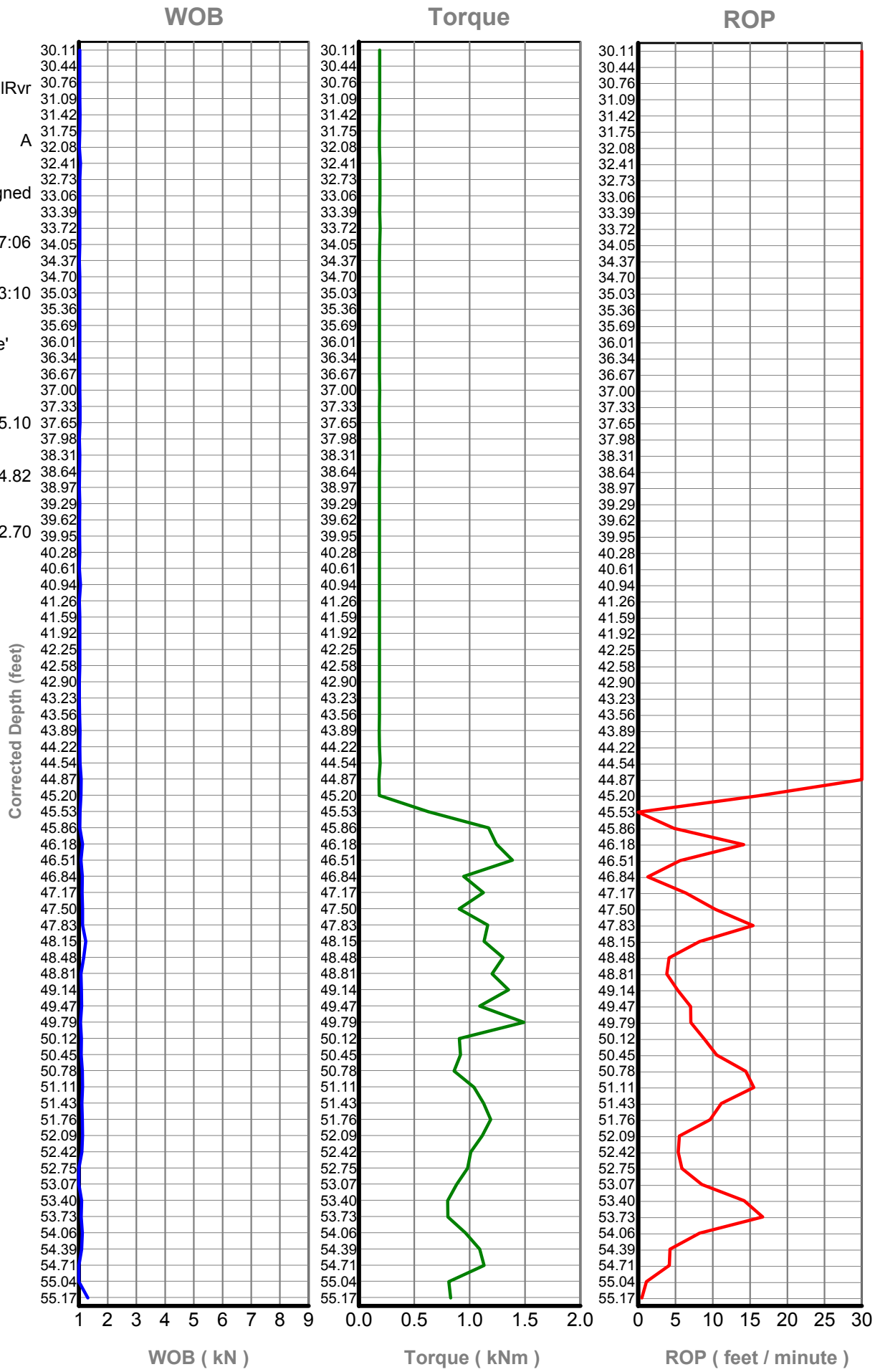
**End Date:**
4/29/2015 2:13:10

**Operator Note:**
'2.7 2.9 b Auto Complete'

**Northing:**
364,095.10

**Easting:**
248,044.82

**Tide (feet):**
2.70



## Hole: I86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:09:17 | 32.81 | 30.11 | 1,138 | 0.28 | 0.37 | 62.2 |
| 4/29/2015 2:09:17 | 33.14 | 30.44 | 1,120 | 0.28 | 0.36 | 61.2 |
| 4/29/2015 2:09:17 | 33.46 | 30.76 | 1,120 | 0.28 | 0.36 | 61.2 |
| 4/29/2015 2:09:17 | 33.79 | 31.09 | 1,120 | 0.29 | 0.36 | 61.2 |
| 4/29/2015 2:09:18 | 34.12 | 31.42 | 1,116 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 2:09:18 | 34.45 | 31.75 | 1,116 | 0.28 | 0.37 | 61.1 |
| 4/29/2015 2:09:18 | 34.78 | 32.08 | 1,116 | 0.29 | 0.36 | 61.1 |
| 4/29/2015 2:09:19 | 35.11 | 32.41 | 1,116 | 0.29 | 0.36 | 61.1 |
| 4/29/2015 2:09:19 | 35.43 | 32.73 | 1,134 | 0.28 | 0.37 | 62.0 |
| 4/29/2015 2:09:19 | 35.76 | 33.06 | 1,131 | 0.29 | 0.36 | 61.9 |
| 4/29/2015 2:09:20 | 36.09 | 33.39 | 1,131 | 0.29 | 0.36 | 61.9 |
| 4/29/2015 2:09:20 | 36.42 | 33.72 | 1,112 | 0.28 | 0.36 | 60.8 |
| 4/29/2015 2:09:20 | 36.75 | 34.05 | 1,112 | 0.28 | 0.36 | 60.8 |
| 4/29/2015 2:09:21 | 37.07 | 34.37 | 1,112 | 0.29 | 0.37 | 60.8 |
| 4/29/2015 2:09:21 | 37.40 | 34.70 | 1,128 | 0.28 | 0.36 | 61.7 |
| 4/29/2015 2:09:21 | 37.73 | 35.03 | 1,128 | 0.28 | 0.36 | 61.7 |
| 4/29/2015 2:09:22 | 38.06 | 35.36 | 1,128 | 0.28 | 0.36 | 61.7 |
| 4/29/2015 2:09:22 | 38.39 | 35.69 | 1,128 | 0.28 | 0.36 | 61.7 |
| 4/29/2015 2:09:22 | 38.71 | 36.01 | 1,147 | 0.28 | 0.36 | 62.7 |
| 4/29/2015 2:09:23 | 39.04 | 36.34 | 1,129 | 0.29 | 0.36 | 61.7 |
| 4/29/2015 2:09:23 | 39.37 | 36.67 | 1,129 | 0.29 | 0.36 | 61.7 |
| 4/29/2015 2:09:23 | 39.70 | 37.00 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/29/2015 2:09:24 | 40.03 | 37.33 | 1,101 | 0.31 | 0.37 | 60.2 |
| 4/29/2015 2:09:24 | 40.35 | 37.65 | 1,101 | 0.28 | 0.36 | 60.2 |
| 4/29/2015 2:09:24 | 40.68 | 37.98 | 1,134 | 0.28 | 0.36 | 62.0 |
| 4/29/2015 2:09:25 | 41.01 | 38.31 | 1,134 | 0.28 | 0.36 | 62.0 |
| 4/29/2015 2:09:25 | 41.34 | 38.64 | 1,134 | 0.29 | 0.37 | 62.0 |
| 4/29/2015 2:09:25 | 41.67 | 38.97 | 1,134 | 0.29 | 0.37 | 62.0 |
| 4/29/2015 2:09:25 | 41.99 | 39.29 | 1,137 | 0.28 | 0.36 | 62.2 |
| 4/29/2015 2:09:26 | 42.32 | 39.62 | 1,137 | 0.28 | 0.36 | 62.2 |
| 4/29/2015 2:09:26 | 42.65 | 39.95 | 1,137 | 0.28 | 0.36 | 62.2 |
| 4/29/2015 2:09:26 | 42.98 | 40.28 | 1,121 | 0.29 | 0.36 | 61.3 |
| 4/29/2015 2:09:27 | 43.31 | 40.61 | 1,121 | 0.29 | 0.36 | 61.3 |
| 4/29/2015 2:09:27 | 43.64 | 40.94 | 1,135 | 0.28 | 0.36 | 62.0 |
| 4/29/2015 2:09:27 | 43.96 | 41.26 | 1,169 | 0.28 | 0.36 | 63.9 |
| 4/29/2015 2:09:28 | 44.29 | 41.59 | 1,169 | 0.28 | 0.36 | 63.9 |
| 4/29/2015 2:09:28 | 44.62 | 41.92 | 1,143 | 0.30 | 0.37 | 62.5 |
| 4/29/2015 2:09:28 | 44.95 | 42.25 | 1,143 | 0.30 | 0.37 | 62.5 |
| 4/29/2015 2:09:28 | 45.28 | 42.58 | 1,156 | 0.28 | 0.35 | 63.2 |
| 4/29/2015 2:09:29 | 45.60 | 42.90 | 1,165 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 2:09:29 | 45.93 | 43.23 | 1,165 | 0.29 | 0.36 | 63.7 |
| 4/29/2015 2:09:29 | 46.26 | 43.56 | 1,144 | 0.29 | 0.37 | 62.5 |
| 4/29/2015 2:09:30 | 46.59 | 43.89 | 1,144 | 0.29 | 0.37 | 62.5 |
| 4/29/2015 2:09:30 | 46.92 | 44.22 | 1,144 | 0.29 | 0.36 | 62.5 |
| 4/29/2015 2:09:34 | 47.24 | 44.54 | 219 | 2.50 | 0.39 | 12.0 |
| 4/29/2015 2:09:34 | 47.57 | 44.87 | 219 | 2.50 | 0.39 | 12.0 |
| 4/29/2015 2:09:37 | 47.90 | 45.20 | 0 | 2.94 | 0.40 | 0.0 |
| 4/29/2015 2:09:38 | 48.23 | 45.53 | 136 | 3.46 | 0.41 | 7.4 |
| 4/29/2015 2:09:39 | 48.56 | 45.86 | 281 | 3.94 | 0.41 | 15.4 |
| 4/29/2015 2:09:40 | 48.88 | 46.18 | 361 | 2.84 | 0.42 | 19.8 |
| 4/29/2015 2:09:42 | 49.21 | 46.51 | 353 | 3.22 | 0.43 | 19.3 |
| 4/29/2015 2:09:43 | 49.54 | 46.84 | 288 | 3.09 | 0.43 | 15.8 |
| 4/29/2015 2:09:45 | 49.87 | 47.17 | 208 | 3.10 | 0.44 | 11.4 |
| 4/29/2015 2:09:47 | 50.20 | 47.50 | 145 | 2.70 | 0.44 | 7.9 |
| 4/29/2015 2:09:50 | 50.53 | 47.83 | 139 | 3.15 | 0.44 | 7.6 |
| 4/29/2015 2:09:53 | 50.85 | 48.15 | 124 | 2.56 | 0.44 | 6.8 |
| 4/29/2015 2:10:01 | 51.18 | 48.48 | 0 | 2.44 | 0.41 | 0.0 |
| 4/29/2015 2:10:05 | 51.51 | 48.81 | 84 | 2.79 | 0.45 | 4.6 |
| 4/29/2015 2:10:16 | 51.84 | 49.14 | 53 | 3.01 | 0.46 | 2.9 |
| 4/29/2015 2:10:23 | 52.17 | 49.47 | 51 | 3.00 | 0.45 | 2.8 |
| 4/29/2015 2:10:27 | 52.49 | 49.79 | 88 | 3.39 | 0.45 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:10:30 | 52.82 | 50.12 | 112 | 2.98 | 0.45 | 6.1 |
| 4/29/2015 | 2:10:35 | 53.15 | 50.45 | 75 | 2.90 | 0.45 | 4.1 |
| 4/29/2015 | 2:10:40 | 53.48 | 50.78 | 64 | 3.41 | 0.45 | 3.5 |
| 4/29/2015 | 2:10:44 | 53.81 | 51.11 | 84 | 4.78 | 0.45 | 4.6 |
| 4/29/2015 | 2:10:49 | 54.13 | 51.43 | 81 | 3.22 | 0.44 | 4.4 |
| 4/29/2015 | 2:10:53 | 54.46 | 51.76 | 81 | 2.90 | 0.44 | 4.4 |
| 4/29/2015 | 2:10:59 | 54.79 | 52.09 | 55 | 2.71 | 0.45 | 3.0 |
| 4/29/2015 | 2:11:04 | 55.12 | 52.42 | 81 | 3.06 | 0.45 | 4.4 |
| 4/29/2015 | 2:11:09 | 55.45 | 52.75 | 75 | 3.34 | 0.45 | 4.1 |
| 4/29/2015 | 2:11:13 | 55.77 | 53.07 | 87 | 3.43 | 0.46 | 4.8 |
| 4/29/2015 | 2:11:18 | 56.10 | 53.40 | 87 | 3.12 | 0.44 | 4.7 |
| 4/29/2015 | 2:11:21 | 56.43 | 53.73 | 98 | 3.56 | 0.45 | 5.4 |
| 4/29/2015 | 2:11:25 | 56.76 | 54.06 | 87 | 3.31 | 0.44 | 4.7 |
| 4/29/2015 | 2:11:29 | 57.09 | 54.39 | 112 | 3.34 | 0.46 | 6.1 |
| 4/29/2015 | 2:11:33 | 57.41 | 54.71 | 83 | 3.43 | 0.45 | 4.6 |
| 4/29/2015 | 2:11:37 | 57.74 | 55.04 | 89 | 3.35 | 0.45 | 4.9 |
| 4/29/2015 | 2:11:39 | 57.95 | 55.25 | 104 | 3.05 | 0.45 | 5.7 |

## I86 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:07:56

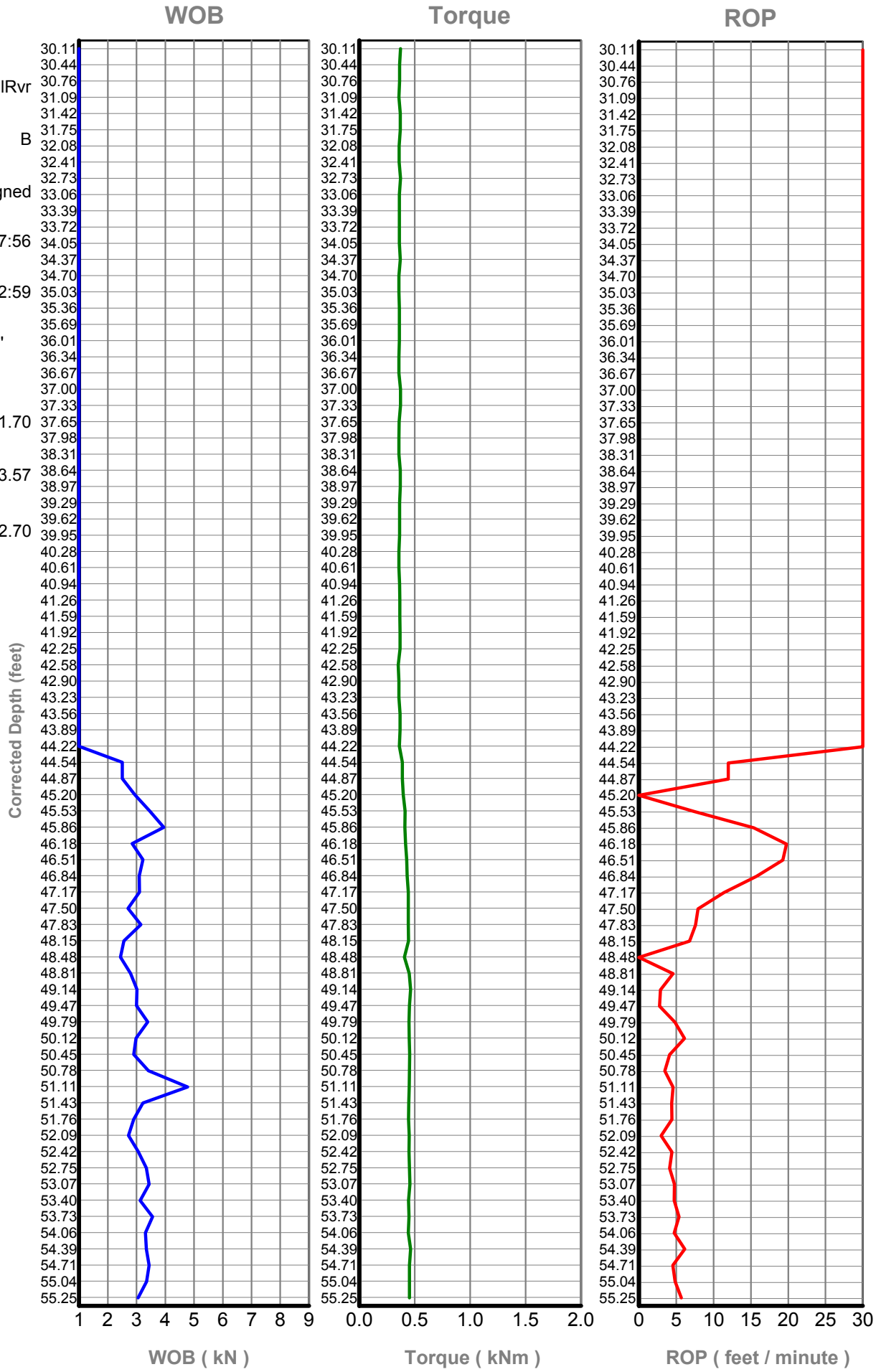
**End Date:**
4/29/2015 2:12:59

**Operator Note:**
'2.7 2.9b Auto Complete'

**Northing:**
364,141.70

**Easting:**
248,103.57

**Tide (feet):**
2.70



## Hole: I87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:08:34 | 32.81 | 30.11 | 1,145 | 1.59 | 0.14 | 62.6 |
| 4/29/2015 2:08:34 | 33.14 | 30.44 | 1,139 | 1.63 | 0.14 | 62.3 |
| 4/29/2015 2:08:35 | 33.46 | 30.76 | 1,139 | 1.63 | 0.14 | 62.3 |
| 4/29/2015 2:08:35 | 33.79 | 31.09 | 1,142 | 1.64 | 0.14 | 62.4 |
| 4/29/2015 2:08:35 | 34.12 | 31.42 | 1,132 | 1.61 | 0.14 | 61.9 |
| 4/29/2015 2:08:36 | 34.45 | 31.75 | 1,132 | 1.61 | 0.14 | 61.9 |
| 4/29/2015 2:08:36 | 34.78 | 32.08 | 1,145 | 1.59 | 0.14 | 62.6 |
| 4/29/2015 2:08:36 | 35.11 | 32.41 | 1,145 | 1.59 | 0.14 | 62.6 |
| 4/29/2015 2:08:36 | 35.43 | 32.73 | 1,139 | 1.61 | 0.14 | 62.3 |
| 4/29/2015 2:08:37 | 35.76 | 33.06 | 1,136 | 1.59 | 0.14 | 62.1 |
| 4/29/2015 2:08:37 | 36.09 | 33.39 | 1,136 | 1.59 | 0.14 | 62.1 |
| 4/29/2015 2:08:37 | 36.42 | 33.72 | 1,133 | 1.59 | 0.14 | 62.0 |
| 4/29/2015 2:08:38 | 36.75 | 34.05 | 1,133 | 1.59 | 0.14 | 62.0 |
| 4/29/2015 2:08:38 | 37.07 | 34.37 | 1,136 | 1.59 | 0.14 | 62.1 |
| 4/29/2015 2:08:38 | 37.40 | 34.70 | 1,130 | 1.59 | 0.14 | 61.8 |
| 4/29/2015 2:08:39 | 37.73 | 35.03 | 1,130 | 1.59 | 0.14 | 61.8 |
| 4/29/2015 2:08:39 | 38.06 | 35.36 | 1,133 | 1.59 | 0.14 | 62.0 |
| 4/29/2015 2:08:39 | 38.39 | 35.69 | 1,133 | 1.59 | 0.14 | 62.0 |
| 4/29/2015 2:08:39 | 38.71 | 36.01 | 1,127 | 1.62 | 0.14 | 61.6 |
| 4/29/2015 2:08:40 | 39.04 | 36.34 | 1,136 | 1.59 | 0.14 | 62.1 |
| 4/29/2015 2:08:40 | 39.37 | 36.67 | 1,136 | 1.59 | 0.14 | 62.1 |
| 4/29/2015 2:08:40 | 39.70 | 37.00 | 1,130 | 1.60 | 0.14 | 61.8 |
| 4/29/2015 2:08:41 | 40.03 | 37.33 | 1,130 | 1.60 | 0.14 | 61.8 |
| 4/29/2015 2:08:41 | 40.35 | 37.65 | 1,130 | 1.58 | 0.14 | 61.8 |
| 4/29/2015 2:08:42 | 40.68 | 37.98 | 1,127 | 1.63 | 0.21 | 61.7 |
| 4/29/2015 2:08:42 | 41.01 | 38.31 | 1,127 | 1.63 | 0.21 | 61.7 |
| 4/29/2015 2:08:42 | 41.34 | 38.64 | 1,130 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 2:08:43 | 41.67 | 38.97 | 1,130 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 2:08:43 | 41.99 | 39.29 | 1,127 | 1.62 | 0.14 | 61.6 |
| 4/29/2015 2:08:43 | 42.32 | 39.62 | 1,130 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 2:08:44 | 42.65 | 39.95 | 1,130 | 1.62 | 0.14 | 61.8 |
| 4/29/2015 2:08:44 | 42.98 | 40.28 | 1,123 | 1.61 | 0.14 | 61.4 |
| 4/29/2015 2:08:44 | 43.31 | 40.61 | 1,123 | 1.61 | 0.14 | 61.4 |
| 4/29/2015 2:08:44 | 43.64 | 40.94 | 1,133 | 1.60 | 0.13 | 62.0 |
| 4/29/2015 2:08:45 | 43.96 | 41.26 | 1,127 | 1.59 | 0.14 | 61.7 |
| 4/29/2015 2:08:45 | 44.29 | 41.59 | 1,127 | 1.59 | 0.14 | 61.7 |
| 4/29/2015 2:08:45 | 44.62 | 41.92 | 1,125 | 1.62 | 0.14 | 61.5 |
| 4/29/2015 2:08:46 | 44.95 | 42.25 | 1,125 | 1.61 | 0.14 | 61.5 |
| 4/29/2015 2:08:46 | 45.28 | 42.58 | 1,125 | 1.61 | 0.14 | 61.5 |
| 4/29/2015 2:08:46 | 45.60 | 42.90 | 1,125 | 1.62 | 0.13 | 61.5 |
| 4/29/2015 2:08:47 | 45.93 | 43.23 | 1,125 | 1.62 | 0.13 | 61.5 |
| 4/29/2015 2:08:47 | 46.26 | 43.56 | 1,119 | 1.61 | 0.14 | 61.2 |
| 4/29/2015 2:08:47 | 46.59 | 43.89 | 1,119 | 1.61 | 0.13 | 61.2 |
| 4/29/2015 2:08:48 | 46.92 | 44.22 | 1,119 | 1.61 | 0.13 | 61.2 |
| 4/29/2015 2:08:48 | 47.24 | 44.54 | 1,115 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 2:08:48 | 47.57 | 44.87 | 1,115 | 1.60 | 0.14 | 61.0 |
| 4/29/2015 2:08:48 | 47.90 | 45.20 | 1,122 | 1.70 | 0.14 | 61.3 |
| 4/29/2015 2:08:58 | 48.23 | 45.53 | 75 | 1.68 | 1.15 | 4.1 |
| 4/29/2015 2:09:07 | 48.56 | 45.86 | 0 | 1.66 | 0.99 | 0.0 |
| 4/29/2015 2:09:08 | 48.88 | 46.18 | 190 | 1.62 | 1.18 | 10.4 |
| 4/29/2015 2:09:09 | 49.21 | 46.51 | 298 | 1.66 | 1.20 | 16.3 |
| 4/29/2015 2:09:09 | 49.54 | 46.84 | 386 | 1.73 | 1.07 | 21.1 |
| 4/29/2015 2:09:10 | 49.87 | 47.17 | 410 | 1.73 | 1.08 | 22.4 |
| 4/29/2015 2:09:22 | 50.20 | 47.50 | 0 | 1.70 | 1.36 | 0.0 |
| 4/29/2015 2:09:24 | 50.53 | 47.83 | 77 | 1.71 | 1.08 | 4.2 |
| 4/29/2015 2:09:24 | 50.85 | 48.15 | 159 | 1.54 | 1.15 | 8.7 |
| 4/29/2015 2:09:36 | 51.18 | 48.48 | 0 | 1.62 | 1.51 | 0.0 |
| 4/29/2015 2:09:37 | 51.51 | 48.81 | 136 | 1.63 | 1.39 | 7.4 |
| 4/29/2015 2:09:39 | 51.84 | 49.14 | 220 | 1.57 | 1.23 | 12.0 |
| 4/29/2015 2:09:42 | 52.17 | 49.47 | 131 | 1.64 | 1.31 | 7.2 |
| 4/29/2015 2:09:45 | 52.49 | 49.79 | 121 | 1.64 | 1.28 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:09:48 | 52.82 | 50.12 | 122 | 1.61 | 1.22 | 6.6 |
| 4/29/2015 | 2:09:49 | 53.15 | 50.45 | 181 | 1.72 | 1.18 | 9.9 |
| 4/29/2015 | 2:09:50 | 53.48 | 50.78 | 307 | 1.68 | 1.08 | 16.8 |
| 4/29/2015 | 2:10:03 | 53.81 | 51.11 | 37 | 1.62 | 1.18 | 2.0 |
| 4/29/2015 | 2:10:05 | 54.13 | 51.43 | 119 | 1.79 | 1.17 | 6.5 |
| 4/29/2015 | 2:10:08 | 54.46 | 51.76 | 130 | 1.66 | 1.43 | 7.1 |
| 4/29/2015 | 2:11:08 | 54.59 | 51.89 | 0 | 1.66 | 1.32 | 0.0 |

## I87 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:07:20

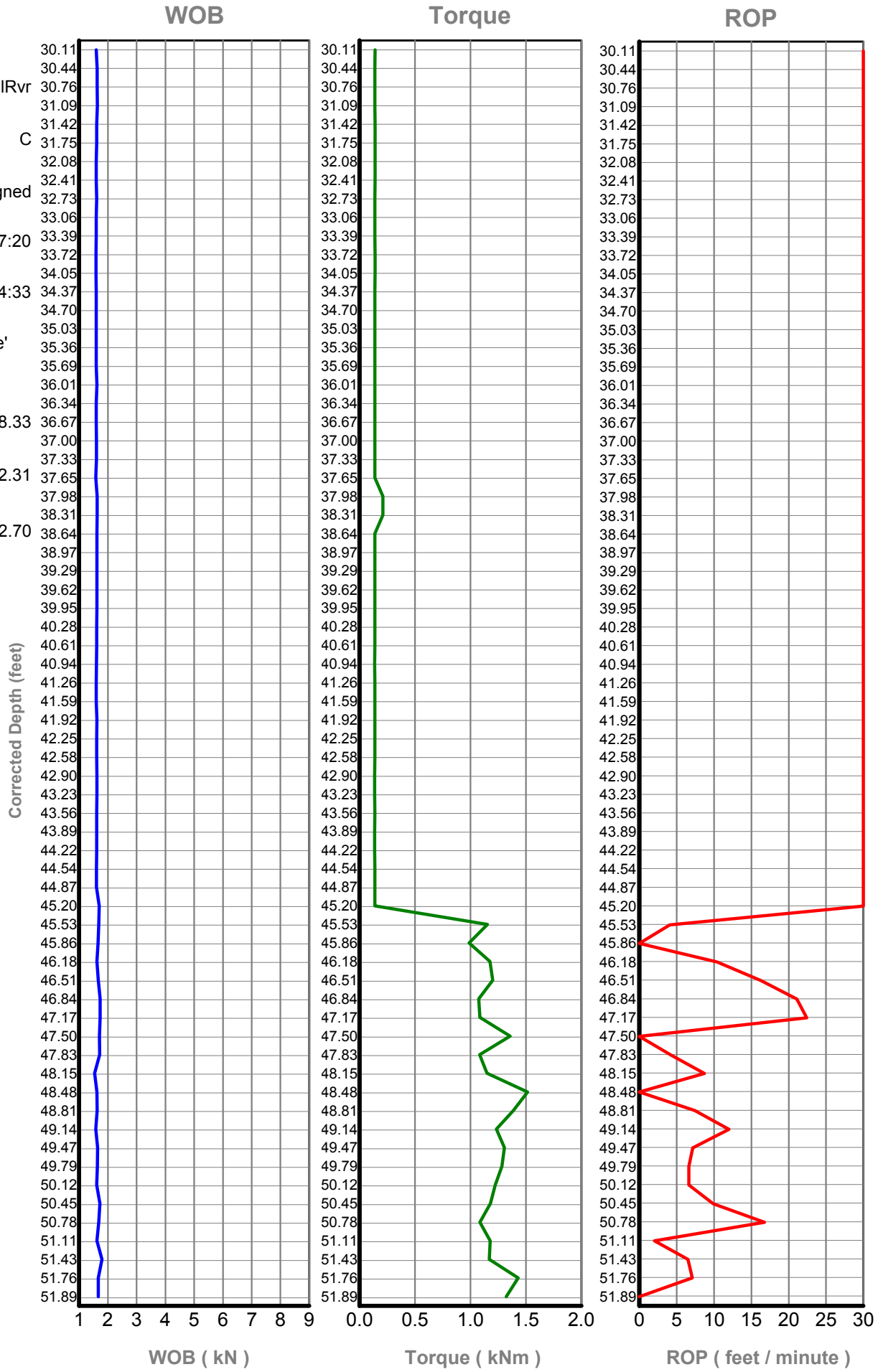
**End Date:**
4/29/2015 2:14:33

**Operator Note:**
'2.7 2.9 c Auto Complete'

**Northing:**
364,188.33

**Easting:**
248,162.31

**Tide (feet):**
2.70



## Hole: I88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:51:24 | 35.43 | 30.13 | 728 | 1.19 | 0.27 | 39.8 |
| 4/27/2015 21:51:29 | 35.76 | 30.46 | 0 | 1.37 | 0.31 | 0.0 |
| 4/27/2015 21:51:29 | 36.09 | 30.79 | 51 | 1.10 | 0.20 | 2.8 |
| 4/27/2015 21:51:30 | 36.42 | 31.12 | 189 | 1.08 | 0.19 | 10.3 |
| 4/27/2015 21:51:30 | 36.75 | 31.45 | 347 | 1.13 | 0.23 | 19.0 |
| 4/27/2015 21:51:31 | 37.07 | 31.77 | 497 | 1.14 | 0.22 | 27.2 |
| 4/27/2015 21:51:31 | 37.40 | 32.10 | 647 | 1.05 | 0.19 | 35.4 |
| 4/27/2015 21:51:32 | 37.73 | 32.43 | 733 | 1.11 | 0.20 | 40.1 |
| 4/27/2015 21:51:32 | 38.06 | 32.76 | 750 | 1.08 | 0.19 | 41.0 |
| 4/27/2015 21:51:33 | 38.39 | 33.09 | 730 | 1.13 | 0.23 | 39.9 |
| 4/27/2015 21:51:33 | 38.71 | 33.41 | 724 | 1.12 | 0.22 | 39.6 |
| 4/27/2015 21:51:34 | 39.04 | 33.74 | 729 | 1.11 | 0.22 | 39.9 |
| 4/27/2015 21:51:34 | 39.37 | 34.07 | 732 | 1.07 | 0.18 | 40.0 |
| 4/27/2015 21:51:35 | 39.70 | 34.40 | 732 | 1.07 | 0.18 | 40.0 |
| 4/27/2015 21:51:35 | 40.03 | 34.73 | 735 | 1.07 | 0.20 | 40.2 |
| 4/27/2015 21:51:35 | 40.35 | 35.05 | 746 | 1.09 | 0.20 | 40.8 |
| 4/27/2015 21:51:36 | 40.68 | 35.38 | 746 | 1.07 | 0.20 | 40.8 |
| 4/27/2015 21:51:36 | 41.01 | 35.71 | 755 | 1.07 | 0.20 | 41.3 |
| 4/27/2015 21:51:37 | 41.34 | 36.04 | 755 | 1.07 | 0.19 | 41.3 |
| 4/27/2015 21:51:38 | 41.67 | 36.37 | 761 | 1.09 | 0.19 | 41.6 |
| 4/27/2015 21:51:38 | 41.99 | 36.69 | 732 | 1.13 | 0.19 | 40.0 |
| 4/27/2015 21:51:39 | 42.32 | 37.02 | 737 | 1.05 | 0.19 | 40.3 |
| 4/27/2015 21:51:39 | 42.65 | 37.35 | 737 | 1.11 | 0.19 | 40.3 |
| 4/27/2015 21:51:40 | 42.98 | 37.68 | 737 | 1.08 | 0.19 | 40.3 |
| 4/27/2015 21:51:40 | 43.31 | 38.01 | 737 | 1.17 | 0.19 | 40.3 |
| 4/27/2015 21:51:41 | 43.64 | 38.34 | 737 | 1.17 | 0.19 | 40.3 |
| 4/27/2015 21:51:41 | 43.96 | 38.66 | 728 | 1.01 | 0.19 | 39.8 |
| 4/27/2015 21:51:41 | 44.29 | 38.99 | 745 | 1.11 | 0.20 | 40.8 |
| 4/27/2015 21:51:42 | 44.62 | 39.32 | 745 | 1.09 | 0.19 | 40.8 |
| 4/27/2015 21:51:42 | 44.95 | 39.65 | 742 | 1.09 | 0.19 | 40.6 |
| 4/27/2015 21:51:43 | 45.28 | 39.98 | 742 | 1.07 | 0.20 | 40.6 |
| 4/27/2015 21:51:43 | 45.60 | 40.30 | 742 | 1.07 | 0.20 | 40.6 |
| 4/27/2015 21:51:44 | 45.93 | 40.63 | 738 | 1.09 | 0.20 | 40.3 |
| 4/27/2015 21:51:44 | 46.26 | 40.96 | 740 | 1.09 | 0.19 | 40.5 |
| 4/27/2015 21:51:45 | 46.59 | 41.29 | 743 | 1.08 | 0.19 | 40.6 |
| 4/27/2015 21:51:45 | 46.92 | 41.62 | 737 | 1.07 | 0.22 | 40.3 |
| 4/27/2015 21:51:46 | 47.24 | 41.94 | 726 | 1.08 | 0.20 | 39.7 |
| 4/27/2015 21:51:46 | 47.57 | 42.27 | 721 | 1.09 | 0.19 | 39.4 |
| 4/27/2015 21:51:47 | 47.90 | 42.60 | 728 | 1.07 | 0.20 | 39.8 |
| 4/27/2015 21:51:48 | 48.23 | 42.93 | 728 | 1.09 | 0.19 | 39.8 |
| 4/27/2015 21:51:48 | 48.56 | 43.26 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 21:51:49 | 48.88 | 43.58 | 731 | 1.07 | 0.20 | 40.0 |
| 4/27/2015 21:51:49 | 49.21 | 43.91 | 730 | 1.09 | 0.14 | 39.9 |
| 4/27/2015 21:51:49 | 49.54 | 44.24 | 712 | 1.07 | 0.20 | 38.9 |
| 4/27/2015 21:52:12 | 49.87 | 44.57 | 29 | 1.13 | 1.26 | 1.6 |
| 4/27/2015 21:52:19 | 50.20 | 44.90 | 97 | 1.12 | 1.37 | 5.3 |
| 4/27/2015 21:52:22 | 50.53 | 45.23 | 104 | 1.15 | 1.33 | 5.7 |
| 4/27/2015 21:52:25 | 50.85 | 45.55 | 96 | 1.09 | 1.40 | 5.3 |
| 4/27/2015 21:52:27 | 51.18 | 45.88 | 199 | 1.10 | 1.61 | 10.9 |
| 4/27/2015 21:52:29 | 51.51 | 46.21 | 160 | 1.09 | 1.21 | 8.7 |
| 4/27/2015 21:52:31 | 51.84 | 46.54 | 219 | 1.13 | 1.19 | 12.0 |
| 4/27/2015 21:52:32 | 52.17 | 46.87 | 246 | 1.13 | 1.27 | 13.4 |
| 4/27/2015 21:52:34 | 52.49 | 47.19 | 180 | 1.14 | 1.39 | 9.8 |
| 4/27/2015 21:52:37 | 52.82 | 47.52 | 147 | 1.12 | 1.30 | 8.0 |
| 4/27/2015 21:52:41 | 53.15 | 47.85 | 95 | 1.15 | 1.54 | 5.2 |
| 4/27/2015 21:53:05 | 53.48 | 48.18 | 46 | 1.11 | 1.26 | 2.5 |
| 4/27/2015 21:53:38 | 53.81 | 48.51 | 17 | 1.05 | 1.19 | 0.9 |
| 4/27/2015 21:53:40 | 54.13 | 48.83 | 156 | 1.05 | 1.00 | 8.5 |
| 4/27/2015 21:53:40 | 54.46 | 49.16 | 225 | 1.02 | 1.51 | 12.3 |
| 4/27/2015 21:53:42 | 54.79 | 49.49 | 344 | 1.11 | 1.12 | 18.8 |
| 4/27/2015 21:53:43 | 55.12 | 49.82 | 380 | 1.04 | 0.92 | 20.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:53:44 | 55.45 | 50.15 | 394 | 1.01 | 1.07 | 21.6 |
| 4/27/2015 | 21:53:45 | 55.77 | 50.47 | 371 | 1.08 | 1.07 | 20.3 |
| 4/27/2015 | 21:53:46 | 56.10 | 50.80 | 273 | 1.11 | 1.33 | 14.9 |
| 4/27/2015 | 21:53:48 | 56.43 | 51.13 | 251 | 1.05 | 1.27 | 13.7 |
| 4/27/2015 | 21:53:49 | 56.76 | 51.46 | 235 | 1.06 | 1.13 | 12.9 |
| 4/27/2015 | 21:53:50 | 57.09 | 51.79 | 259 | 1.02 | 0.88 | 14.2 |
| 4/27/2015 | 21:53:53 | 57.41 | 52.11 | 146 | 1.05 | 1.08 | 8.0 |
| 4/27/2015 | 21:53:56 | 57.74 | 52.44 | 141 | 1.05 | 1.06 | 7.7 |
| 4/27/2015 | 21:53:59 | 58.07 | 52.77 | 66 | 0.94 | 1.30 | 3.6 |
| 4/27/2015 | 21:54:05 | 58.40 | 53.10 | 52 | 1.11 | 1.25 | 2.8 |
| 4/27/2015 | 21:55:30 | 58.73 | 53.43 | 44 | 1.11 | 1.13 | 2.4 |
| 4/27/2015 | 21:55:39 | 59.06 | 53.76 | 38 | 1.05 | 1.09 | 2.1 |
| 4/27/2015 | 21:55:48 | 59.38 | 54.08 | 38 | 1.09 | 1.39 | 2.1 |
| 4/27/2015 | 22:04:12 | 59.71 | 54.41 | 0 | 1.00 | 1.69 | 0.0 |
| 4/27/2015 | 22:34:28 | 60.04 | 54.74 | 0 | 1.15 | 0.14 | 0.0 |
| 4/27/2015 | 22:34:29 | 60.37 | 55.07 | 79 | 1.14 | 0.14 | 4.3 |
| 4/27/2015 | 22:34:29 | 60.70 | 55.40 | 208 | 1.15 | 0.14 | 11.4 |
| 4/27/2015 | 22:37:24 | 61.02 | 55.72 | 0 | 0.34 | 0.06 | 0.0 |
| 4/27/2015 | 22:40:50 | 61.31 | 56.01 | 105 | 0.48 | 0.10 | 5.7 |

## I88 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:48:53

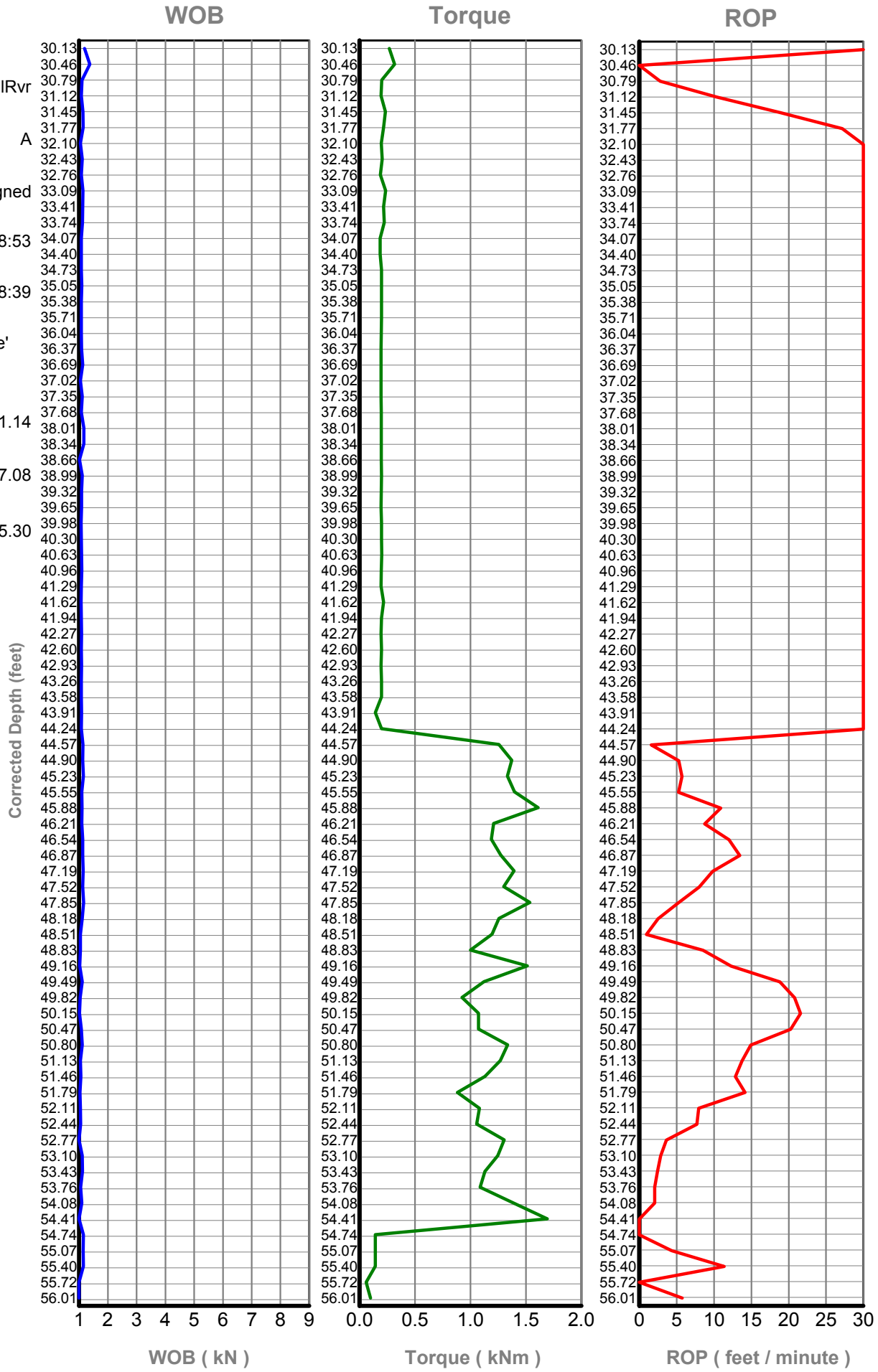
**End Date:**
4/28/2015 9:08:39

**Operator Note:**
'5.3 5.4 b Auto Complete'

**Northing:**
364,241.14

**Easting:**
248,217.08

**Tide (feet):**
5.30



## Hole: I89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:51:41 | 35.43 | 30.13 | 938 | 0.37 | 0.34 | 51.3 |
| 4/27/2015 21:51:41 | 35.76 | 30.46 | 924 | 0.37 | 0.34 | 50.5 |
| 4/27/2015 21:51:42 | 36.09 | 30.79 | 946 | 0.37 | 0.34 | 51.7 |
| 4/27/2015 21:51:42 | 36.42 | 31.12 | 946 | 0.37 | 0.34 | 51.7 |
| 4/27/2015 21:51:42 | 36.75 | 31.45 | 932 | 0.36 | 0.34 | 50.9 |
| 4/27/2015 21:51:43 | 37.07 | 31.77 | 935 | 0.37 | 0.34 | 51.1 |
| 4/27/2015 21:51:43 | 37.40 | 32.10 | 935 | 0.37 | 0.34 | 51.1 |
| 4/27/2015 21:51:44 | 37.73 | 32.43 | 935 | 0.37 | 0.34 | 51.1 |
| 4/27/2015 21:51:44 | 38.06 | 32.76 | 951 | 0.36 | 0.34 | 52.0 |
| 4/27/2015 21:51:44 | 38.39 | 33.09 | 940 | 0.37 | 0.35 | 51.4 |
| 4/27/2015 21:51:45 | 38.71 | 33.41 | 940 | 0.37 | 0.35 | 51.4 |
| 4/27/2015 21:51:45 | 39.04 | 33.74 | 942 | 0.37 | 0.34 | 51.5 |
| 4/27/2015 21:51:45 | 39.37 | 34.07 | 937 | 0.37 | 0.34 | 51.2 |
| 4/27/2015 21:51:46 | 39.70 | 34.40 | 948 | 0.37 | 0.34 | 51.9 |
| 4/27/2015 21:51:47 | 40.03 | 34.73 | 948 | 0.37 | 0.34 | 51.9 |
| 4/27/2015 21:51:47 | 40.35 | 35.05 | 942 | 0.37 | 0.34 | 51.5 |
| 4/27/2015 21:51:47 | 40.68 | 35.38 | 939 | 0.36 | 0.34 | 51.4 |
| 4/27/2015 21:51:48 | 41.01 | 35.71 | 937 | 0.37 | 0.34 | 51.2 |
| 4/27/2015 21:51:48 | 41.34 | 36.04 | 937 | 0.37 | 0.34 | 51.2 |
| 4/27/2015 21:51:48 | 41.67 | 36.37 | 945 | 0.36 | 0.34 | 51.7 |
| 4/27/2015 21:51:49 | 41.99 | 36.69 | 937 | 0.36 | 0.34 | 51.2 |
| 4/27/2015 21:51:49 | 42.32 | 37.02 | 937 | 0.36 | 0.34 | 51.2 |
| 4/27/2015 21:51:49 | 42.65 | 37.35 | 924 | 0.37 | 0.34 | 50.5 |
| 4/27/2015 21:51:50 | 42.98 | 37.68 | 924 | 0.36 | 0.34 | 50.5 |
| 4/27/2015 21:51:50 | 43.31 | 38.01 | 927 | 0.36 | 0.35 | 50.7 |
| 4/27/2015 21:51:51 | 43.64 | 38.34 | 927 | 0.36 | 0.35 | 50.7 |
| 4/27/2015 21:51:51 | 43.96 | 38.66 | 927 | 0.37 | 0.35 | 50.7 |
| 4/27/2015 21:51:51 | 44.29 | 38.99 | 938 | 0.37 | 0.34 | 51.3 |
| 4/27/2015 21:51:52 | 44.62 | 39.32 | 922 | 0.37 | 0.34 | 50.4 |
| 4/27/2015 21:51:52 | 44.95 | 39.65 | 922 | 0.37 | 0.34 | 50.4 |
| 4/27/2015 21:51:52 | 45.28 | 39.98 | 933 | 0.36 | 0.34 | 51.0 |
| 4/27/2015 21:51:53 | 45.60 | 40.30 | 940 | 0.36 | 0.34 | 51.4 |
| 4/27/2015 21:51:53 | 45.93 | 40.63 | 943 | 0.37 | 0.34 | 51.6 |
| 4/27/2015 21:51:54 | 46.26 | 40.96 | 943 | 0.37 | 0.34 | 51.6 |
| 4/27/2015 21:51:54 | 46.59 | 41.29 | 929 | 0.37 | 0.34 | 50.8 |
| 4/27/2015 21:51:54 | 46.92 | 41.62 | 940 | 0.37 | 0.34 | 51.4 |
| 4/27/2015 21:51:55 | 47.24 | 41.94 | 940 | 0.37 | 0.34 | 51.4 |
| 4/27/2015 21:51:55 | 47.57 | 42.27 | 931 | 0.37 | 0.35 | 50.9 |
| 4/27/2015 21:51:55 | 47.90 | 42.60 | 928 | 0.39 | 0.34 | 50.7 |
| 4/27/2015 21:51:56 | 48.23 | 42.93 | 923 | 0.36 | 0.35 | 50.4 |
| 4/27/2015 21:51:56 | 48.56 | 43.26 | 923 | 0.36 | 0.35 | 50.4 |
| 4/27/2015 21:52:01 | 48.88 | 43.58 | 17 | 4.88 | 0.39 | 0.9 |
| 4/27/2015 21:52:03 | 49.21 | 43.91 | 162 | 6.27 | 0.42 | 8.9 |
| 4/27/2015 21:52:09 | 49.54 | 44.24 | 0 | 3.53 | 0.38 | 0.0 |
| 4/27/2015 21:52:10 | 49.87 | 44.57 | 91 | 3.42 | 0.39 | 5.0 |
| 4/27/2015 21:52:11 | 50.20 | 44.90 | 214 | 3.24 | 0.42 | 11.7 |
| 4/27/2015 21:52:14 | 50.53 | 45.23 | 113 | 4.91 | 0.41 | 6.2 |
| 4/27/2015 21:52:16 | 50.85 | 45.55 | 170 | 4.17 | 0.40 | 9.3 |
| 4/27/2015 21:52:16 | 51.18 | 45.88 | 207 | 3.03 | 0.39 | 11.3 |
| 4/27/2015 21:52:30 | 51.51 | 46.21 | 34 | 4.33 | 0.39 | 1.9 |
| 4/27/2015 21:52:32 | 51.84 | 46.54 | 120 | 4.37 | 0.40 | 6.5 |
| 4/27/2015 21:52:34 | 52.17 | 46.87 | 146 | 5.62 | 0.40 | 8.0 |
| 4/27/2015 21:52:37 | 52.49 | 47.19 | 115 | 3.96 | 0.39 | 6.3 |
| 4/27/2015 21:53:02 | 52.82 | 47.52 | 59 | 4.91 | 0.41 | 3.2 |
| 4/27/2015 21:53:15 | 53.15 | 47.85 | 12 | 4.44 | 0.38 | 0.6 |
| 4/27/2015 21:53:16 | 53.48 | 48.18 | 62 | 5.40 | 0.39 | 3.4 |
| 4/27/2015 21:53:31 | 53.81 | 48.51 | 0 | 4.40 | 0.38 | 0.0 |
| 4/27/2015 21:53:32 | 54.13 | 48.83 | 110 | 5.17 | 0.39 | 6.0 |
| 4/27/2015 21:53:33 | 54.46 | 49.16 | 223 | 3.83 | 0.38 | 12.2 |
| 4/27/2015 21:53:34 | 54.79 | 49.49 | 318 | 3.31 | 0.36 | 17.4 |
| 4/27/2015 21:54:00 | 55.12 | 49.82 | 24 | 2.82 | 0.37 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 21:54:01 | 55.45 | 50.15 | 138 | 2.76 | 0.37 | 7.5 |
| 4/27/2015 | 21:54:02 | 55.77 | 50.47 | 237 | 2.76 | 0.37 | 13.0 |
| 4/27/2015 | 21:54:03 | 56.10 | 50.80 | 349 | 3.25 | 0.38 | 19.1 |
| 4/27/2015 | 21:54:05 | 56.43 | 51.13 | 311 | 3.18 | 0.41 | 17.0 |
| 4/27/2015 | 21:54:07 | 56.76 | 51.46 | 119 | 3.54 | 0.42 | 6.5 |
| 4/27/2015 | 21:54:11 | 57.09 | 51.79 | 92 | 3.45 | 0.41 | 5.0 |
| 4/27/2015 | 21:54:15 | 57.41 | 52.11 | 93 | 3.41 | 0.41 | 5.1 |
| 4/27/2015 | 21:54:19 | 57.74 | 52.44 | 75 | 3.37 | 0.41 | 4.1 |
| 4/27/2015 | 21:54:24 | 58.07 | 52.77 | 81 | 3.41 | 0.43 | 4.4 |
| 4/27/2015 | 21:54:29 | 58.40 | 53.10 | 66 | 3.62 | 0.42 | 3.6 |
| 4/27/2015 | 21:54:34 | 58.73 | 53.43 | 89 | 3.50 | 0.41 | 4.9 |
| 4/27/2015 | 21:54:37 | 59.06 | 53.76 | 112 | 4.12 | 0.41 | 6.1 |
| 4/27/2015 | 21:54:58 | 59.38 | 54.08 | 21 | 3.72 | 0.41 | 1.2 |
| 4/27/2015 | 21:55:05 | 59.71 | 54.41 | 50 | 3.24 | 0.41 | 2.7 |
| 4/27/2015 | 21:55:11 | 60.04 | 54.74 | 55 | 3.02 | 0.41 | 3.0 |
| 4/27/2015 | 21:55:17 | 60.37 | 55.07 | 62 | 3.26 | 0.42 | 3.4 |

## I89 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:49:57

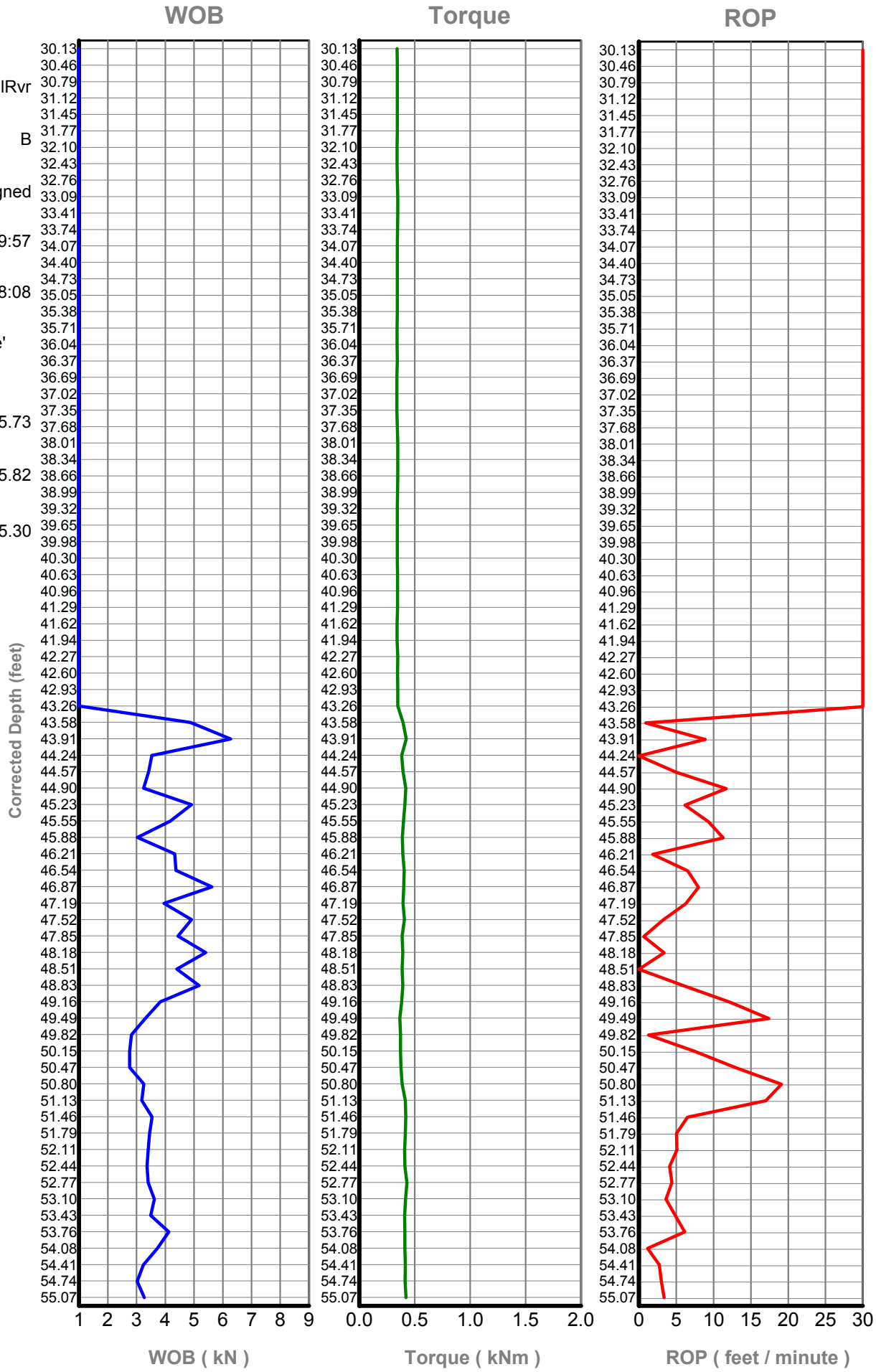
**End Date:**
4/27/2015 22:08:08

**Operator Note:**
'5.3 5.4B Auto Complete'

**Northing:**
364,285.73

**Easting:**
248,275.82

**Tide (feet):**
5.30



## Hole: I9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 0:17:43 | 34.78 | 30.08 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 0:17:44 | 35.11 | 30.41 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 0:17:44 | 35.43 | 30.73 | 1,110 | 1.60 | 0.13 | 60.7 |
| 4/29/2015 0:17:44 | 35.76 | 31.06 | 1,110 | 1.60 | 0.13 | 60.7 |
| 4/29/2015 0:17:44 | 36.09 | 31.39 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:45 | 36.42 | 31.72 | 1,113 | 1.58 | 0.14 | 60.9 |
| 4/29/2015 0:17:45 | 36.75 | 32.05 | 1,113 | 1.58 | 0.14 | 60.9 |
| 4/29/2015 0:17:45 | 37.07 | 32.37 | 1,100 | 1.62 | 0.13 | 60.2 |
| 4/29/2015 0:17:46 | 37.40 | 32.70 | 1,100 | 1.62 | 0.13 | 60.2 |
| 4/29/2015 0:17:46 | 37.73 | 33.03 | 1,107 | 1.61 | 0.13 | 60.5 |
| 4/29/2015 0:17:46 | 38.06 | 33.36 | 1,107 | 1.59 | 0.13 | 60.5 |
| 4/29/2015 0:17:47 | 38.39 | 33.69 | 1,107 | 1.59 | 0.13 | 60.5 |
| 4/29/2015 0:17:47 | 38.71 | 34.01 | 1,117 | 1.58 | 0.13 | 61.1 |
| 4/29/2015 0:17:47 | 39.04 | 34.34 | 1,104 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 0:17:48 | 39.37 | 34.67 | 1,104 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 0:17:48 | 39.70 | 35.00 | 1,111 | 1.59 | 0.13 | 60.8 |
| 4/29/2015 0:17:48 | 40.03 | 35.33 | 1,111 | 1.59 | 0.13 | 60.8 |
| 4/29/2015 0:17:48 | 40.35 | 35.65 | 1,096 | 1.58 | 0.13 | 59.9 |
| 4/29/2015 0:17:49 | 40.68 | 35.98 | 1,108 | 1.59 | 0.13 | 60.6 |
| 4/29/2015 0:17:49 | 41.01 | 36.31 | 1,108 | 1.59 | 0.13 | 60.6 |
| 4/29/2015 0:17:49 | 41.34 | 36.64 | 1,105 | 1.59 | 0.13 | 60.4 |
| 4/29/2015 0:17:50 | 41.67 | 36.97 | 1,105 | 1.61 | 0.13 | 60.4 |
| 4/29/2015 0:17:51 | 41.99 | 37.29 | 1,105 | 1.61 | 0.13 | 60.4 |
| 4/29/2015 0:17:50 | 42.32 | 37.62 | 1,098 | 1.59 | 0.13 | 60.0 |
| 4/29/2015 0:17:51 | 42.65 | 37.95 | 1,098 | 1.59 | 0.13 | 60.0 |
| 4/29/2015 0:17:51 | 42.98 | 38.28 | 1,114 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 0:17:52 | 43.31 | 38.61 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:52 | 43.64 | 38.94 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:52 | 43.96 | 39.26 | 1,095 | 1.57 | 0.13 | 59.9 |
| 4/29/2015 0:17:53 | 44.29 | 39.59 | 1,101 | 1.59 | 0.13 | 60.2 |
| 4/29/2015 0:17:53 | 44.62 | 39.92 | 1,101 | 1.59 | 0.13 | 60.2 |
| 4/29/2015 0:17:53 | 44.95 | 40.25 | 1,104 | 1.60 | 0.13 | 60.4 |
| 4/29/2015 0:17:54 | 45.28 | 40.58 | 1,104 | 1.60 | 0.13 | 60.4 |
| 4/29/2015 0:17:54 | 45.60 | 40.90 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:54 | 45.93 | 41.23 | 1,098 | 1.63 | 0.13 | 60.1 |
| 4/29/2015 0:17:55 | 46.26 | 41.56 | 1,098 | 1.63 | 0.13 | 60.1 |
| 4/29/2015 0:17:55 | 46.59 | 41.89 | 1,098 | 1.57 | 0.13 | 60.1 |
| 4/29/2015 0:17:55 | 46.92 | 42.22 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:56 | 47.24 | 42.54 | 1,101 | 1.60 | 0.13 | 60.2 |
| 4/29/2015 0:17:56 | 47.57 | 42.87 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:56 | 47.90 | 43.20 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:56 | 48.23 | 43.53 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:57 | 48.56 | 43.86 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:57 | 48.88 | 44.18 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:57 | 49.21 | 44.51 | 1,099 | 1.59 | 0.13 | 60.1 |
| 4/29/2015 0:17:58 | 49.54 | 44.84 | 1,096 | 1.60 | 0.13 | 59.9 |
| 4/29/2015 0:17:58 | 49.87 | 45.17 | 1,096 | 1.60 | 0.13 | 59.9 |
| 4/29/2015 0:17:58 | 50.20 | 45.50 | 1,093 | 1.74 | 0.14 | 59.8 |
| 4/29/2015 0:18:08 | 50.53 | 45.83 | 0 | 1.67 | 1.27 | 0.0 |
| 4/29/2015 0:18:12 | 50.85 | 46.15 | 100 | 1.64 | 1.00 | 5.5 |
| 4/29/2015 0:18:13 | 51.18 | 46.48 | 100 | 1.61 | 0.92 | 5.5 |
| 4/29/2015 0:18:13 | 51.51 | 46.81 | 100 | 1.61 | 0.92 | 5.5 |
| 4/29/2015 0:18:13 | 51.84 | 47.14 | 159 | 1.64 | 1.09 | 8.7 |
| 4/29/2015 0:18:17 | 52.17 | 47.47 | 44 | 1.64 | 0.98 | 2.4 |
| 4/29/2015 0:18:23 | 52.49 | 47.79 | 49 | 1.67 | 1.23 | 2.7 |
| 4/29/2015 0:18:28 | 52.82 | 48.12 | 64 | 1.66 | 1.26 | 3.5 |
| 4/29/2015 0:18:36 | 53.15 | 48.45 | 42 | 1.64 | 1.23 | 2.3 |
| 4/29/2015 0:18:45 | 53.48 | 48.78 | 40 | 1.64 | 1.21 | 2.2 |
| 4/29/2015 0:18:54 | 53.80 | 49.10 | 40 | 1.67 | 1.26 | 2.2 |

## I9 - Summary

**Pattern Number:**
AreaI_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 0:16:18

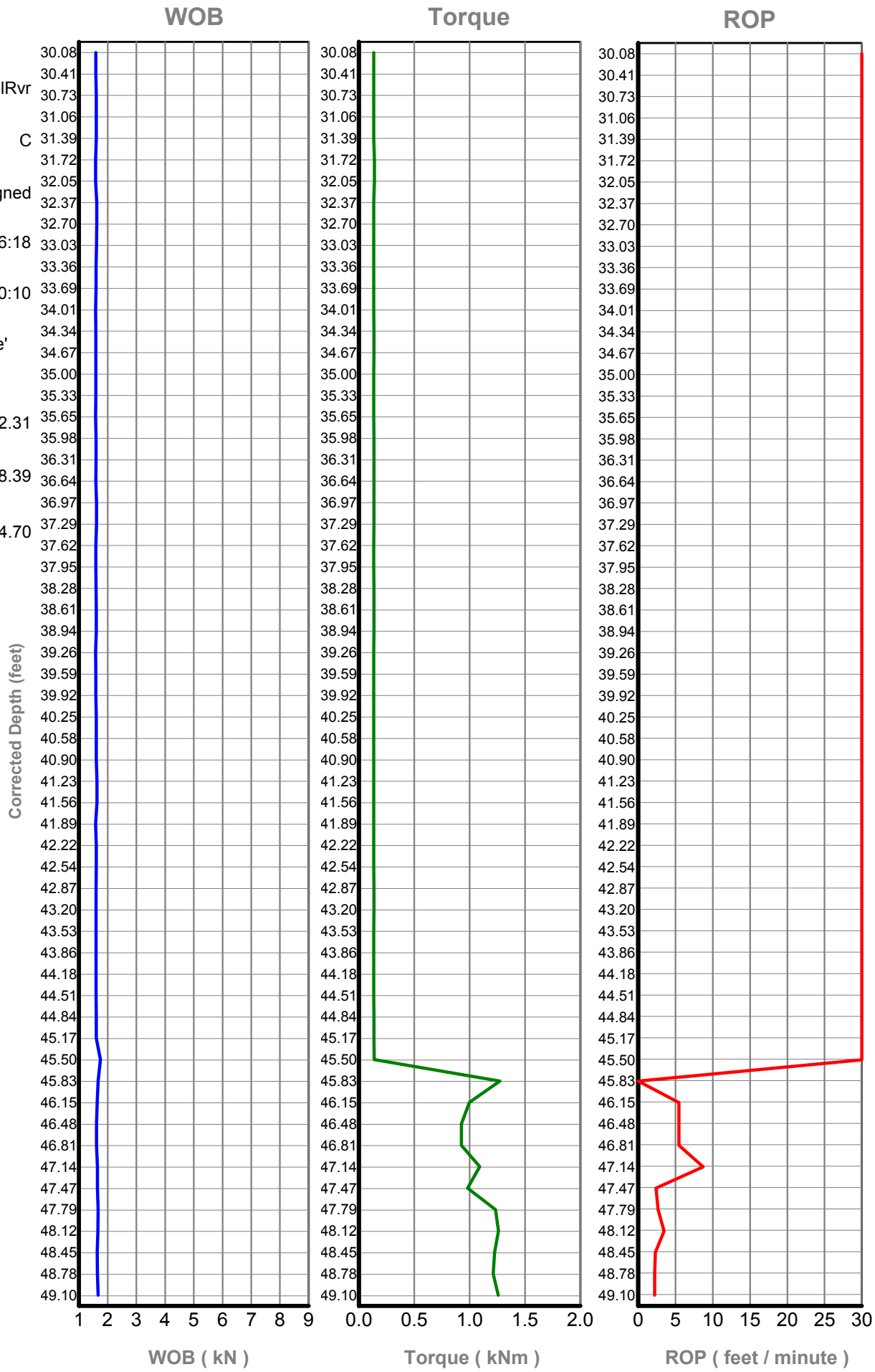
**End Date:**
4/29/2015 0:20:10

**Operator Note:**
'4.7 4.8 c Auto Complete'

**Northing:**
364,732.31

**Easting:**
248,008.39

**Tide (feet):**
4.70



## Hole: I90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 21:50:45 | 35.43 | 30.13 | 1,060 | 1.62 | 0.15 | 57.9 |
| 4/27/2015 21:50:45 | 35.76 | 30.46 | 1,060 | 1.62 | 0.15 | 57.9 |
| 4/27/2015 21:50:45 | 36.09 | 30.79 | 1,041 | 1.62 | 0.15 | 56.9 |
| 4/27/2015 21:50:46 | 36.42 | 31.12 | 1,040 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:50:46 | 36.75 | 31.45 | 1,040 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:50:46 | 37.07 | 31.77 | 999 | 1.64 | 0.15 | 54.6 |
| 4/27/2015 21:50:47 | 37.40 | 32.10 | 999 | 1.64 | 0.15 | 54.6 |
| 4/27/2015 21:50:47 | 37.73 | 32.43 | 999 | 1.64 | 0.15 | 54.6 |
| 4/27/2015 21:50:47 | 38.06 | 32.76 | 1,057 | 1.62 | 0.15 | 57.8 |
| 4/27/2015 21:50:48 | 38.39 | 33.09 | 1,031 | 1.63 | 0.15 | 56.4 |
| 4/27/2015 21:50:48 | 38.71 | 33.41 | 1,031 | 1.63 | 0.15 | 56.4 |
| 4/27/2015 21:50:48 | 39.04 | 33.74 | 1,040 | 1.64 | 0.15 | 56.9 |
| 4/27/2015 21:50:49 | 39.37 | 34.07 | 1,000 | 1.65 | 0.15 | 54.7 |
| 4/27/2015 21:50:49 | 39.70 | 34.40 | 1,000 | 1.65 | 0.15 | 54.7 |
| 4/27/2015 21:50:49 | 40.03 | 34.73 | 1,041 | 1.62 | 0.15 | 56.9 |
| 4/27/2015 21:50:50 | 40.35 | 35.05 | 1,041 | 1.62 | 0.15 | 56.9 |
| 4/27/2015 21:50:50 | 40.68 | 35.38 | 1,041 | 1.63 | 0.15 | 56.9 |
| 4/27/2015 21:50:50 | 41.01 | 35.71 | 1,033 | 1.62 | 0.15 | 56.5 |
| 4/27/2015 21:50:51 | 41.34 | 36.04 | 1,033 | 1.62 | 0.15 | 56.5 |
| 4/27/2015 21:50:51 | 41.67 | 36.37 | 1,042 | 1.66 | 0.15 | 57.0 |
| 4/27/2015 21:50:51 | 41.99 | 36.69 | 1,033 | 1.62 | 0.15 | 56.5 |
| 4/27/2015 21:50:52 | 42.32 | 37.02 | 1,033 | 1.62 | 0.15 | 56.5 |
| 4/27/2015 21:50:52 | 42.65 | 37.35 | 1,061 | 1.62 | 0.15 | 58.0 |
| 4/27/2015 21:50:53 | 42.98 | 37.68 | 1,064 | 1.65 | 0.15 | 58.2 |
| 4/27/2015 21:50:53 | 43.31 | 38.01 | 1,064 | 1.65 | 0.15 | 58.2 |
| 4/27/2015 21:50:53 | 43.64 | 38.34 | 1,041 | 1.62 | 0.15 | 56.9 |
| 4/27/2015 21:50:54 | 43.96 | 38.66 | 1,038 | 1.62 | 0.15 | 56.8 |
| 4/27/2015 21:50:54 | 44.29 | 38.99 | 1,038 | 1.62 | 0.15 | 56.8 |
| 4/27/2015 21:50:54 | 44.62 | 39.32 | 1,038 | 1.54 | 0.15 | 56.8 |
| 4/27/2015 21:50:55 | 44.95 | 39.65 | 1,044 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:50:55 | 45.28 | 39.98 | 1,044 | 1.62 | 0.15 | 57.1 |
| 4/27/2015 21:50:55 | 45.60 | 40.30 | 1,038 | 1.62 | 0.15 | 56.7 |
| 4/27/2015 21:50:56 | 45.93 | 40.63 | 1,035 | 1.62 | 0.15 | 56.6 |
| 4/27/2015 21:50:56 | 46.26 | 40.96 | 1,035 | 1.62 | 0.15 | 56.6 |
| 4/27/2015 21:50:56 | 46.59 | 41.29 | 1,031 | 1.63 | 0.15 | 56.4 |
| 4/27/2015 21:50:57 | 46.92 | 41.62 | 1,041 | 1.60 | 0.15 | 56.9 |
| 4/27/2015 21:50:57 | 47.24 | 41.94 | 1,041 | 1.60 | 0.15 | 56.9 |
| 4/27/2015 21:50:57 | 47.57 | 42.27 | 1,035 | 1.59 | 0.15 | 56.6 |
| 4/27/2015 21:50:58 | 47.90 | 42.60 | 1,038 | 1.61 | 0.15 | 56.8 |
| 4/27/2015 21:50:58 | 48.23 | 42.93 | 1,038 | 1.61 | 0.15 | 56.8 |
| 4/27/2015 21:50:58 | 48.56 | 43.26 | 1,038 | 1.63 | 0.15 | 56.8 |
| 4/27/2015 21:50:59 | 48.88 | 43.58 | 1,038 | 1.62 | 0.15 | 56.8 |
| 4/27/2015 21:50:59 | 49.21 | 43.91 | 1,038 | 1.62 | 0.15 | 56.8 |
| 4/27/2015 21:50:59 | 49.54 | 44.24 | 1,009 | 1.67 | 0.15 | 55.2 |
| 4/27/2015 21:51:14 | 49.87 | 44.57 | 0 | 1.70 | 1.26 | 0.0 |
| 4/27/2015 21:51:20 | 50.20 | 44.90 | 47 | 1.70 | 1.42 | 2.6 |
| 4/27/2015 21:51:22 | 50.53 | 45.23 | 72 | 1.72 | 1.22 | 3.9 |
| 4/27/2015 21:51:23 | 50.85 | 45.55 | 179 | 1.65 | 1.17 | 9.8 |
| 4/27/2015 21:51:24 | 51.18 | 45.88 | 179 | 1.68 | 1.12 | 9.8 |
| 4/27/2015 21:51:34 | 51.51 | 46.21 | 29 | 1.68 | 1.38 | 1.6 |
| 4/27/2015 21:51:35 | 51.84 | 46.54 | 119 | 1.68 | 1.16 | 6.5 |
| 4/27/2015 21:51:41 | 52.17 | 46.87 | 6 | 1.67 | 1.27 | 0.3 |
| 4/27/2015 21:51:45 | 52.49 | 47.19 | 81 | 1.67 | 1.28 | 4.4 |
| 4/27/2015 21:51:50 | 52.82 | 47.52 | 73 | 1.68 | 1.32 | 4.0 |
| 4/27/2015 21:51:55 | 53.15 | 47.85 | 76 | 1.64 | 1.31 | 4.1 |
| 4/27/2015 21:51:59 | 53.48 | 48.18 | 69 | 1.69 | 1.34 | 3.8 |
| 4/27/2015 21:52:03 | 53.81 | 48.51 | 81 | 1.67 | 1.31 | 4.4 |
| 4/27/2015 21:52:08 | 54.13 | 48.83 | 70 | 1.69 | 1.30 | 3.8 |
| 4/27/2015 21:52:15 | 54.46 | 49.16 | 46 | 1.69 | 1.19 | 2.5 |
| 4/27/2015 21:52:22 | 54.79 | 49.49 | 55 | 1.66 | 1.24 | 3.0 |
| 4/27/2015 21:52:29 | 55.12 | 49.82 | 59 | 1.69 | 1.24 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 21:52:30 | 55.21 | 49.91 | 51 | 1.68 | 1.22 | 2.8 | |

## I90 - Summary

**Pattern Number:**
Areal_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 21:49:28

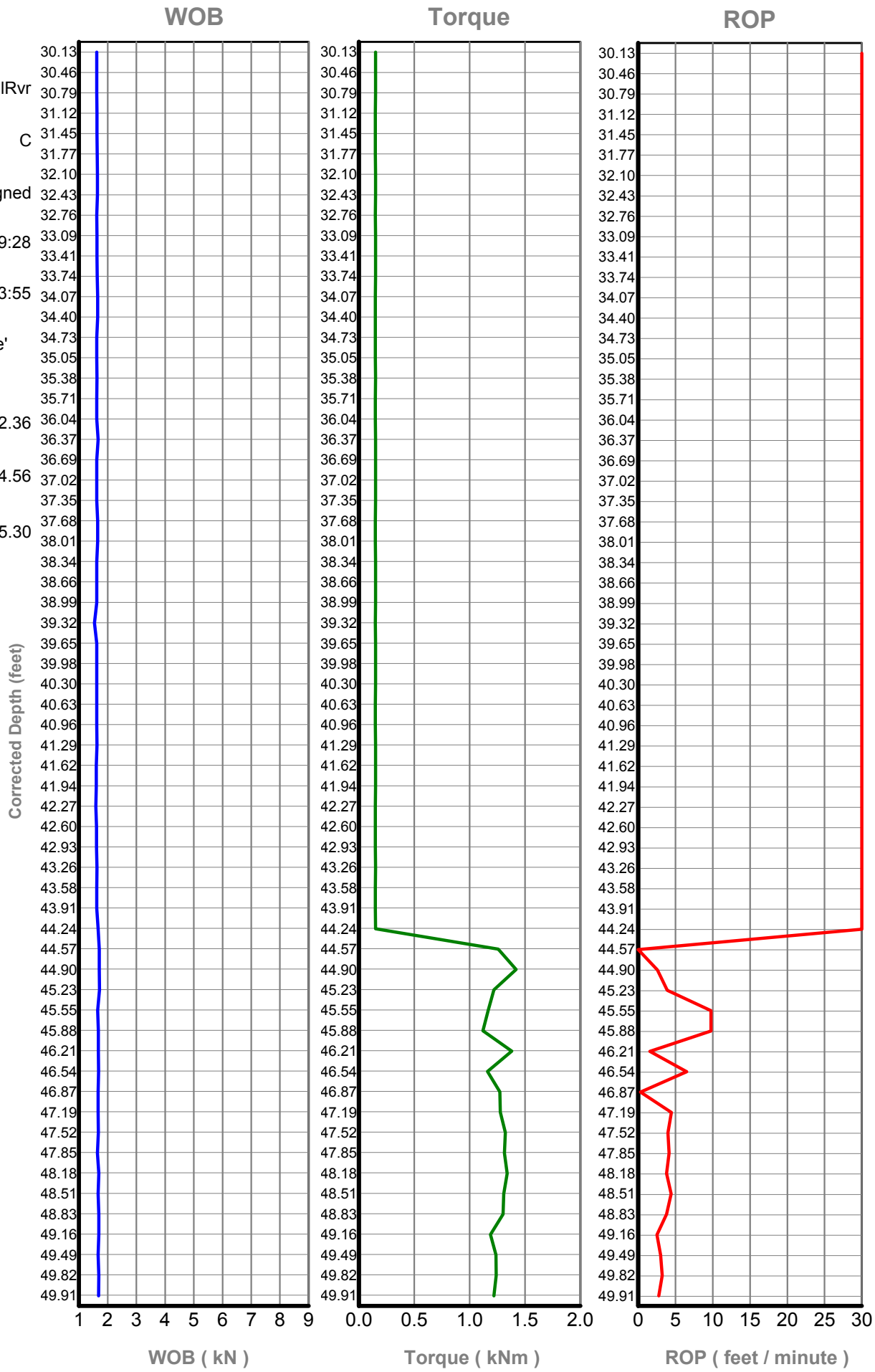
**End Date:**
4/27/2015 21:53:55

**Operator Note:**
'5.3 5.4 c Auto Complete'

**Northing:**
364,332.36

**Easting:**
248,334.56

**Tide (feet):**
5.30



## Hole: I91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:50:25 | 33.14 | 30.04 | 756 | 1.06 | 0.19 | 41.3 |
| 4/27/2015 17:50:25 | 33.46 | 30.36 | 769 | 1.05 | 0.19 | 42.0 |
| 4/27/2015 17:50:26 | 33.79 | 30.69 | 769 | 1.05 | 0.19 | 42.0 |
| 4/27/2015 17:50:26 | 34.12 | 31.02 | 765 | 1.05 | 0.19 | 41.8 |
| 4/27/2015 17:50:26 | 34.45 | 31.35 | 772 | 1.05 | 0.19 | 42.2 |
| 4/27/2015 17:50:27 | 34.78 | 31.68 | 775 | 1.06 | 0.19 | 42.4 |
| 4/27/2015 17:50:27 | 35.11 | 32.01 | 782 | 1.06 | 0.19 | 42.8 |
| 4/27/2015 17:50:28 | 35.43 | 32.33 | 778 | 1.06 | 0.19 | 42.5 |
| 4/27/2015 17:50:28 | 35.76 | 32.66 | 782 | 1.06 | 0.19 | 42.8 |
| 4/27/2015 17:50:29 | 36.09 | 32.99 | 773 | 1.06 | 0.19 | 42.3 |
| 4/27/2015 17:50:29 | 36.42 | 33.32 | 773 | 1.06 | 0.19 | 42.3 |
| 4/27/2015 17:50:29 | 36.75 | 33.65 | 775 | 1.05 | 0.19 | 42.4 |
| 4/27/2015 17:50:30 | 37.07 | 33.97 | 772 | 1.06 | 0.19 | 42.2 |
| 4/27/2015 17:50:30 | 37.40 | 34.30 | 772 | 1.05 | 0.19 | 42.2 |
| 4/27/2015 17:50:31 | 37.73 | 34.63 | 770 | 1.04 | 0.19 | 42.1 |
| 4/27/2015 17:50:31 | 38.06 | 34.96 | 777 | 1.05 | 0.19 | 42.5 |
| 4/27/2015 17:50:32 | 38.39 | 35.29 | 780 | 1.04 | 0.19 | 42.7 |
| 4/27/2015 17:50:33 | 38.71 | 35.61 | 783 | 1.05 | 0.19 | 42.8 |
| 4/27/2015 17:50:33 | 39.04 | 35.94 | 779 | 1.05 | 0.19 | 42.6 |
| 4/27/2015 17:50:34 | 39.37 | 36.27 | 779 | 1.05 | 0.19 | 42.6 |
| 4/27/2015 17:50:34 | 39.70 | 36.60 | 781 | 1.05 | 0.19 | 42.7 |
| 4/27/2015 17:50:34 | 40.03 | 36.93 | 776 | 1.06 | 0.19 | 42.5 |
| 4/27/2015 17:50:35 | 40.35 | 37.25 | 766 | 1.04 | 0.19 | 41.9 |
| 4/27/2015 17:50:35 | 40.68 | 37.58 | 762 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:50:36 | 41.01 | 37.91 | 771 | 1.05 | 0.19 | 42.1 |
| 4/27/2015 17:50:36 | 41.34 | 38.24 | 763 | 1.06 | 0.19 | 41.7 |
| 4/27/2015 17:50:37 | 41.67 | 38.57 | 766 | 1.06 | 0.19 | 41.9 |
| 4/27/2015 17:50:37 | 41.99 | 38.89 | 775 | 1.05 | 0.19 | 42.4 |
| 4/27/2015 17:50:38 | 42.32 | 39.22 | 775 | 1.05 | 0.19 | 42.4 |
| 4/27/2015 17:50:38 | 42.65 | 39.55 | 772 | 1.05 | 0.19 | 42.2 |
| 4/27/2015 17:50:38 | 42.98 | 39.88 | 769 | 1.05 | 0.19 | 42.0 |
| 4/27/2015 17:50:39 | 43.31 | 40.21 | 772 | 1.05 | 0.18 | 42.2 |
| 4/27/2015 17:50:39 | 43.64 | 40.54 | 764 | 1.05 | 0.19 | 41.8 |
| 4/27/2015 17:50:40 | 43.96 | 40.86 | 766 | 1.05 | 0.19 | 41.9 |
| 4/27/2015 17:50:40 | 44.29 | 41.19 | 766 | 1.04 | 0.19 | 41.9 |
| 4/27/2015 17:50:41 | 44.62 | 41.52 | 766 | 1.05 | 0.19 | 41.9 |
| 4/27/2015 17:50:41 | 44.95 | 41.85 | 766 | 1.05 | 0.19 | 41.9 |
| 4/27/2015 17:50:42 | 45.28 | 42.18 | 769 | 1.05 | 0.19 | 42.0 |
| 4/27/2015 17:50:42 | 45.60 | 42.50 | 769 | 1.05 | 0.19 | 42.0 |
| 4/27/2015 17:50:42 | 45.93 | 42.83 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:50:43 | 46.26 | 43.16 | 760 | 1.05 | 0.19 | 41.6 |
| 4/27/2015 17:50:44 | 46.59 | 43.49 | 756 | 1.05 | 0.19 | 41.3 |
| 4/27/2015 17:50:44 | 46.92 | 43.82 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:50:45 | 47.24 | 44.14 | 763 | 1.05 | 0.19 | 41.7 |
| 4/27/2015 17:50:45 | 47.57 | 44.47 | 766 | 1.05 | 0.19 | 41.9 |
| 4/27/2015 17:50:46 | 47.90 | 44.80 | 769 | 1.03 | 0.19 | 42.1 |
| 4/27/2015 17:50:46 | 48.23 | 45.13 | 769 | 1.09 | 0.19 | 42.1 |
| 4/27/2015 17:50:51 | 48.56 | 45.46 | 0 | 1.07 | 0.77 | 0.0 |
| 4/27/2015 17:50:55 | 48.88 | 45.78 | 77 | 1.05 | 1.03 | 4.2 |
| 4/27/2015 17:50:58 | 49.21 | 46.11 | 116 | 1.11 | 1.24 | 6.3 |
| 4/27/2015 17:50:59 | 49.54 | 46.44 | 185 | 1.09 | 1.09 | 10.1 |
| 4/27/2015 17:51:01 | 49.87 | 46.77 | 226 | 1.09 | 1.04 | 12.3 |
| 4/27/2015 17:51:02 | 50.20 | 47.10 | 238 | 1.08 | 1.27 | 13.0 |
| 4/27/2015 17:51:03 | 50.53 | 47.43 | 238 | 1.08 | 1.04 | 13.0 |
| 4/27/2015 17:51:06 | 50.85 | 47.75 | 230 | 1.13 | 1.30 | 12.6 |
| 4/27/2015 17:51:09 | 51.18 | 48.08 | 98 | 1.09 | 1.42 | 5.4 |
| 4/27/2015 17:51:14 | 51.51 | 48.41 | 64 | 0.92 | 1.41 | 3.5 |
| 4/27/2015 17:51:18 | 51.84 | 48.74 | 80 | 1.05 | 1.27 | 4.4 |
| 4/27/2015 17:51:20 | 52.17 | 49.07 | 168 | 0.99 | 0.88 | 9.2 |
| 4/27/2015 17:51:23 | 52.49 | 49.39 | 132 | 0.97 | 0.83 | 7.2 |
| 4/27/2015 17:51:29 | 52.82 | 49.72 | 51 | 1.05 | 0.93 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:51:36 | 53.15 | 50.05 | 53 | 1.05 | 1.07 | 2.9 |
| 4/27/2015 | 17:51:42 | 53.48 | 50.38 | 50 | 1.11 | 1.04 | 2.7 |
| 4/27/2015 | 17:51:49 | 53.81 | 50.71 | 57 | 1.02 | 1.26 | 3.1 |
| 4/27/2015 | 17:51:50 | 53.91 | 50.81 | 75 | 0.81 | 1.15 | 4.1 |

## I91 - Summary

**Pattern Number:**
Areal_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:49:03

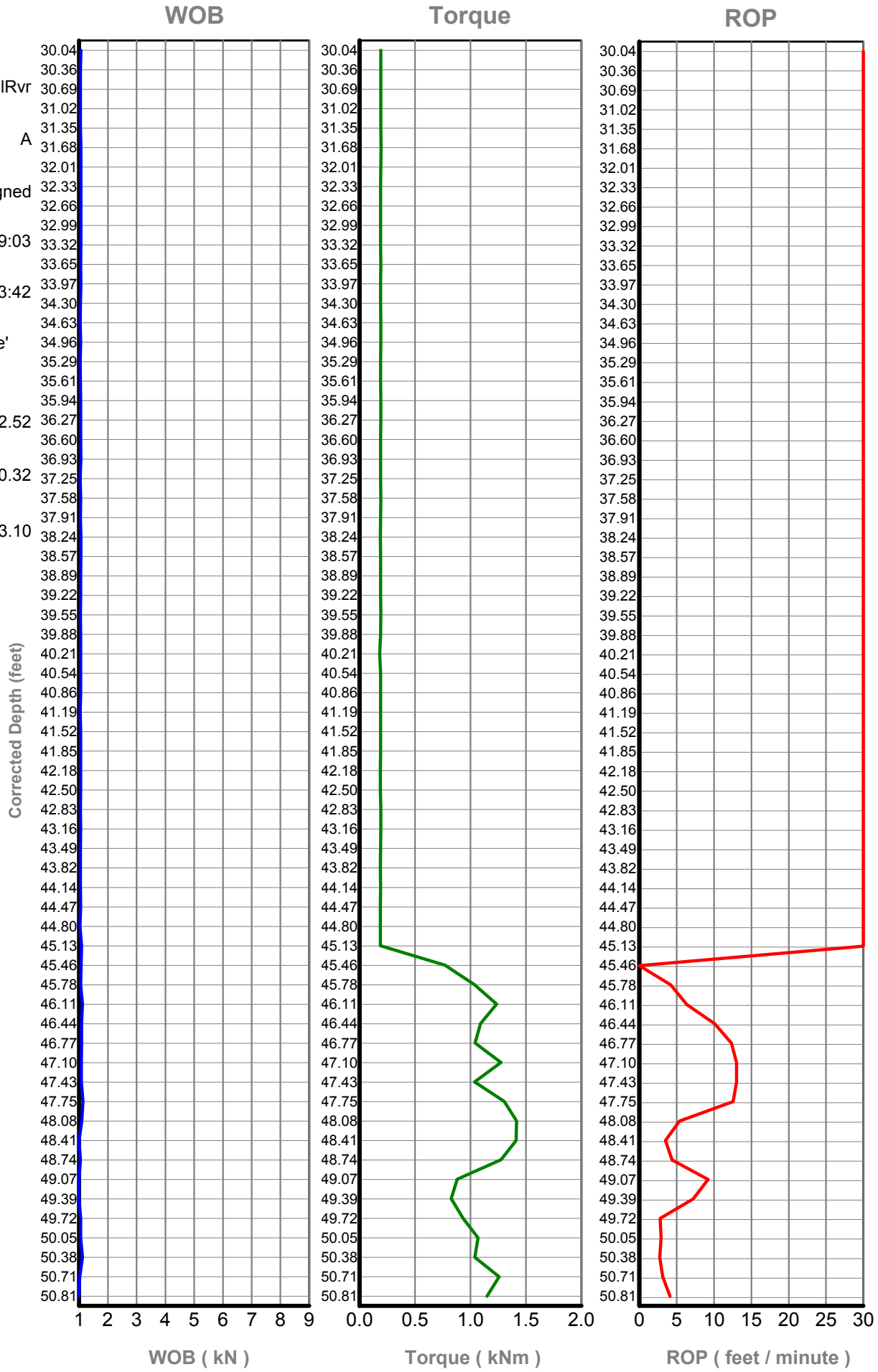
**End Date:**
4/27/2015 17:53:42

**Operator Note:**
'3.1 2.9 a Auto Complete'

**Northing:**
364,382.52

**Easting:**
248,400.32

**Tide (feet):**
3.10



## Hole: I92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:50:30 | 33.14 | 30.04 | 1,119 | 0.39 | 0.33 | 61.2 |
| 4/27/2015 17:50:31 | 33.46 | 30.36 | 1,114 | 0.39 | 0.32 | 60.9 |
| 4/27/2015 17:50:31 | 33.79 | 30.69 | 1,114 | 0.39 | 0.32 | 60.9 |
| 4/27/2015 17:50:31 | 34.12 | 31.02 | 1,098 | 0.37 | 0.32 | 60.1 |
| 4/27/2015 17:50:32 | 34.45 | 31.35 | 1,096 | 0.38 | 0.34 | 59.9 |
| 4/27/2015 17:50:32 | 34.78 | 31.68 | 1,096 | 0.38 | 0.34 | 59.9 |
| 4/27/2015 17:50:32 | 35.11 | 32.01 | 1,066 | 0.38 | 0.33 | 58.3 |
| 4/27/2015 17:50:33 | 35.43 | 32.33 | 1,066 | 0.37 | 0.33 | 58.3 |
| 4/27/2015 17:50:33 | 35.76 | 32.66 | 1,066 | 0.37 | 0.33 | 58.3 |
| 4/27/2015 17:50:33 | 36.09 | 32.99 | 1,073 | 0.39 | 0.32 | 58.7 |
| 4/27/2015 17:50:34 | 36.42 | 33.32 | 1,073 | 0.39 | 0.32 | 58.7 |
| 4/27/2015 17:50:34 | 36.75 | 33.65 | 1,074 | 0.39 | 0.33 | 58.7 |
| 4/27/2015 17:50:34 | 37.07 | 33.97 | 1,074 | 0.38 | 0.33 | 58.7 |
| 4/27/2015 17:50:35 | 37.40 | 34.30 | 1,074 | 0.38 | 0.33 | 58.7 |
| 4/27/2015 17:50:35 | 37.73 | 34.63 | 1,074 | 0.37 | 0.33 | 58.7 |
| 4/27/2015 17:50:35 | 38.06 | 34.96 | 1,092 | 0.37 | 0.33 | 59.7 |
| 4/27/2015 17:50:36 | 38.39 | 35.29 | 1,092 | 0.37 | 0.33 | 59.7 |
| 4/27/2015 17:50:36 | 38.71 | 35.61 | 1,084 | 0.35 | 0.33 | 59.3 |
| 4/27/2015 17:50:36 | 39.04 | 35.94 | 1,087 | 0.29 | 0.32 | 59.4 |
| 4/27/2015 17:50:37 | 39.37 | 36.27 | 1,087 | 0.29 | 0.32 | 59.4 |
| 4/27/2015 17:50:37 | 39.70 | 36.60 | 1,095 | 0.53 | 0.32 | 59.9 |
| 4/27/2015 17:50:37 | 40.03 | 36.93 | 1,095 | 0.53 | 0.32 | 59.9 |
| 4/27/2015 17:50:37 | 40.35 | 37.25 | 1,100 | 0.29 | 0.33 | 60.2 |
| 4/27/2015 17:50:38 | 40.68 | 37.58 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 17:50:38 | 41.01 | 37.91 | 1,093 | 0.29 | 0.32 | 59.8 |
| 4/27/2015 17:50:38 | 41.34 | 38.24 | 1,093 | 0.32 | 0.33 | 59.8 |
| 4/27/2015 17:50:39 | 41.67 | 38.57 | 1,093 | 0.32 | 0.33 | 59.8 |
| 4/27/2015 17:50:39 | 41.99 | 38.89 | 1,114 | 0.29 | 0.32 | 60.9 |
| 4/27/2015 17:50:39 | 42.32 | 39.22 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:50:40 | 42.65 | 39.55 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:50:40 | 42.98 | 39.88 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:50:40 | 43.31 | 40.21 | 1,124 | 0.29 | 0.32 | 61.5 |
| 4/27/2015 17:50:40 | 43.64 | 40.54 | 1,137 | 0.35 | 0.33 | 62.2 |
| 4/27/2015 17:50:41 | 43.96 | 40.86 | 1,155 | 0.28 | 0.32 | 63.2 |
| 4/27/2015 17:50:42 | 44.29 | 41.19 | 1,155 | 0.28 | 0.32 | 63.2 |
| 4/27/2015 17:50:42 | 44.62 | 41.52 | 1,144 | 0.29 | 0.32 | 62.5 |
| 4/27/2015 17:50:42 | 44.95 | 41.85 | 1,144 | 0.29 | 0.32 | 62.5 |
| 4/27/2015 17:50:42 | 45.28 | 42.18 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:50:43 | 45.60 | 42.50 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:50:43 | 45.93 | 42.83 | 1,119 | 0.29 | 0.33 | 61.2 |
| 4/27/2015 17:50:43 | 46.26 | 43.16 | 1,137 | 0.29 | 0.32 | 62.2 |
| 4/27/2015 17:50:44 | 46.59 | 43.49 | 1,137 | 0.29 | 0.32 | 62.2 |
| 4/27/2015 17:50:44 | 46.92 | 43.82 | 1,127 | 0.29 | 0.32 | 61.6 |
| 4/27/2015 17:50:44 | 47.24 | 44.14 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 17:50:45 | 47.57 | 44.47 | 1,130 | 0.29 | 0.32 | 61.8 |
| 4/27/2015 17:50:45 | 47.90 | 44.80 | 1,137 | 0.28 | 0.32 | 62.2 |
| 4/27/2015 17:50:45 | 48.23 | 45.13 | 1,137 | 0.28 | 0.32 | 62.2 |
| 4/27/2015 17:50:45 | 48.56 | 45.46 | 1,158 | 0.29 | 0.32 | 63.3 |
| 4/27/2015 17:50:46 | 48.88 | 45.78 | 1,135 | 0.26 | 0.36 | 62.1 |
| 4/27/2015 17:50:46 | 49.21 | 46.11 | 1,135 | 0.26 | 0.36 | 62.1 |
| 4/27/2015 17:50:51 | 49.54 | 46.44 | 106 | 4.85 | 0.40 | 5.8 |
| 4/27/2015 17:50:53 | 49.87 | 46.77 | 184 | 5.10 | 0.38 | 10.1 |
| 4/27/2015 17:50:54 | 50.20 | 47.10 | 240 | 3.26 | 0.37 | 13.1 |
| 4/27/2015 17:50:55 | 50.53 | 47.43 | 357 | 3.37 | 0.36 | 19.5 |
| 4/27/2015 17:51:02 | 50.85 | 47.75 | 0 | 4.80 | 0.40 | 0.0 |
| 4/27/2015 17:51:03 | 51.18 | 48.08 | 101 | 3.92 | 0.38 | 5.5 |
| 4/27/2015 17:51:04 | 51.51 | 48.41 | 101 | 3.52 | 0.37 | 5.5 |
| 4/27/2015 17:51:04 | 51.84 | 48.74 | 212 | 2.75 | 0.37 | 11.6 |
| 4/27/2015 17:51:10 | 52.17 | 49.07 | 0 | 2.28 | 0.36 | 0.0 |
| 4/27/2015 17:51:19 | 52.49 | 49.39 | 32 | 4.73 | 0.40 | 1.7 |
| 4/27/2015 17:51:22 | 52.82 | 49.72 | 133 | 3.61 | 0.40 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:51:23 | 53.15 | 50.05 | 156 | 4.11 | 0.39 | 8.5 |
| 4/27/2015 | 17:51:24 | 53.48 | 50.38 | 269 | 3.19 | 0.38 | 14.7 |
| 4/27/2015 | 17:51:25 | 53.81 | 50.71 | 341 | 2.63 | 0.38 | 18.6 |
| 4/27/2015 | 17:51:26 | 54.13 | 51.03 | 411 | 3.74 | 0.39 | 22.5 |
| 4/27/2015 | 17:51:28 | 54.46 | 51.36 | 238 | 3.10 | 0.40 | 13.0 |
| 4/27/2015 | 17:51:30 | 54.79 | 51.69 | 168 | 2.86 | 0.40 | 9.2 |
| 4/27/2015 | 17:51:32 | 55.12 | 52.02 | 177 | 2.97 | 0.41 | 9.7 |
| 4/27/2015 | 17:51:38 | 55.45 | 52.35 | 60 | 3.45 | 0.41 | 3.3 |
| 4/27/2015 | 17:51:44 | 55.77 | 52.67 | 54 | 3.01 | 0.40 | 3.0 |
| 4/27/2015 | 17:51:51 | 56.10 | 53.00 | 47 | 2.81 | 0.41 | 2.6 |
| 4/27/2015 | 17:51:56 | 56.28 | 53.18 | 40 | 2.86 | 0.41 | 2.2 |

## I92 - Summary

**Pattern Number:**
AreaI_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:49:02

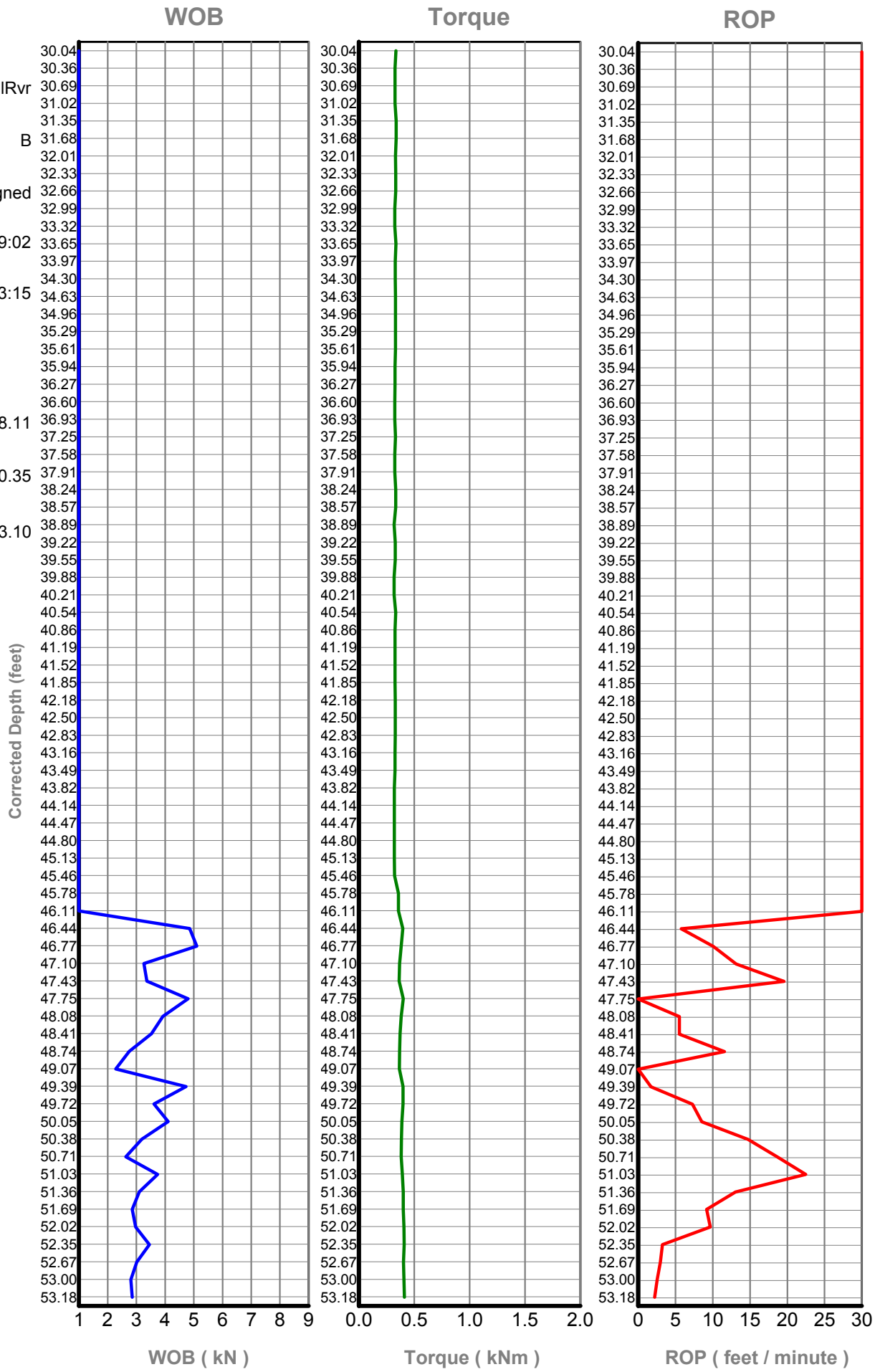
**End Date:**
4/27/2015 17:53:15

**Operator Note:**
'3.1 2.9 b Rocl'

**Northing:**
364,428.11

**Easting:**
248,460.35

**Tide (feet):**
3.10



## Hole: I93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 17:50:12 | 33.14 | 30.04 | 1,099 | 1.60 | 0.29 | 60.1 |
| 4/27/2015 17:50:13 | 33.46 | 30.36 | 1,099 | 1.60 | 0.29 | 60.1 |
| 4/27/2015 17:50:13 | 33.79 | 30.69 | 1,096 | 1.62 | 0.29 | 59.9 |
| 4/27/2015 17:50:13 | 34.12 | 31.02 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:50:14 | 34.45 | 31.35 | 1,096 | 1.59 | 0.29 | 59.9 |
| 4/27/2015 17:50:14 | 34.78 | 31.68 | 1,089 | 1.60 | 0.28 | 59.5 |
| 4/27/2015 17:50:14 | 35.11 | 32.01 | 1,066 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 17:50:15 | 35.43 | 32.33 | 1,066 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 17:50:15 | 35.76 | 32.66 | 1,066 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 17:50:15 | 36.09 | 32.99 | 1,066 | 1.59 | 0.29 | 58.3 |
| 4/27/2015 17:50:15 | 36.42 | 33.32 | 1,086 | 1.60 | 0.29 | 59.4 |
| 4/27/2015 17:50:16 | 36.75 | 33.65 | 1,076 | 1.60 | 0.29 | 58.9 |
| 4/27/2015 17:50:16 | 37.07 | 33.97 | 1,076 | 1.60 | 0.29 | 58.9 |
| 4/27/2015 17:50:16 | 37.40 | 34.30 | 1,079 | 1.61 | 0.29 | 59.0 |
| 4/27/2015 17:50:17 | 37.73 | 34.63 | 1,086 | 1.62 | 0.29 | 59.4 |
| 4/27/2015 17:50:17 | 38.06 | 34.96 | 1,086 | 1.62 | 0.29 | 59.4 |
| 4/27/2015 17:50:17 | 38.39 | 35.29 | 1,103 | 1.62 | 0.29 | 60.3 |
| 4/27/2015 17:50:18 | 38.71 | 35.61 | 1,103 | 1.62 | 0.29 | 60.3 |
| 4/27/2015 17:50:18 | 39.04 | 35.94 | 1,081 | 1.61 | 0.29 | 59.1 |
| 4/27/2015 17:50:18 | 39.37 | 36.27 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:50:19 | 39.70 | 36.60 | 1,093 | 1.61 | 0.29 | 59.8 |
| 4/27/2015 17:50:19 | 40.03 | 36.93 | 1,094 | 1.59 | 0.30 | 59.8 |
| 4/27/2015 17:50:19 | 40.35 | 37.25 | 1,084 | 1.60 | 0.30 | 59.3 |
| 4/27/2015 17:50:20 | 40.68 | 37.58 | 1,084 | 1.60 | 0.30 | 59.3 |
| 4/27/2015 17:50:20 | 41.01 | 37.91 | 1,087 | 1.60 | 0.29 | 59.4 |
| 4/27/2015 17:50:20 | 41.34 | 38.24 | 1,099 | 1.59 | 0.29 | 60.1 |
| 4/27/2015 17:50:21 | 41.67 | 38.57 | 1,099 | 1.59 | 0.29 | 60.1 |
| 4/27/2015 17:50:21 | 41.99 | 38.89 | 1,072 | 1.62 | 0.30 | 58.6 |
| 4/27/2015 17:50:21 | 42.32 | 39.22 | 1,072 | 1.62 | 0.30 | 58.6 |
| 4/27/2015 17:50:21 | 42.65 | 39.55 | 1,072 | 1.60 | 0.29 | 58.6 |
| 4/27/2015 17:50:22 | 42.98 | 39.88 | 1,070 | 1.60 | 0.31 | 58.5 |
| 4/27/2015 17:50:22 | 43.31 | 40.21 | 1,070 | 1.60 | 0.31 | 58.5 |
| 4/27/2015 17:50:23 | 43.64 | 40.54 | 1,087 | 1.62 | 0.29 | 59.4 |
| 4/27/2015 17:50:23 | 43.96 | 40.86 | 1,087 | 1.60 | 0.29 | 59.4 |
| 4/27/2015 17:50:24 | 44.29 | 41.19 | 1,087 | 1.60 | 0.29 | 59.4 |
| 4/27/2015 17:50:24 | 44.62 | 41.52 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 17:50:24 | 44.95 | 41.85 | 1,084 | 1.59 | 0.29 | 59.3 |
| 4/27/2015 17:50:24 | 45.28 | 42.18 | 1,096 | 1.62 | 0.29 | 59.9 |
| 4/27/2015 17:50:25 | 45.60 | 42.50 | 1,103 | 1.62 | 0.29 | 60.3 |
| 4/27/2015 17:50:25 | 45.93 | 42.83 | 1,103 | 1.62 | 0.29 | 60.3 |
| 4/27/2015 17:50:25 | 46.26 | 43.16 | 1,087 | 1.60 | 0.29 | 59.4 |
| 4/27/2015 17:50:26 | 46.59 | 43.49 | 1,093 | 1.62 | 0.29 | 59.8 |
| 4/27/2015 17:50:26 | 46.92 | 43.82 | 1,093 | 1.62 | 0.29 | 59.8 |
| 4/27/2015 17:50:44 | 47.24 | 44.14 | 0 | 1.59 | 0.87 | 0.0 |
| 4/27/2015 17:50:44 | 47.57 | 44.47 | 27 | 1.64 | 1.08 | 1.5 |
| 4/27/2015 17:50:45 | 47.90 | 44.80 | 153 | 1.65 | 1.07 | 8.4 |
| 4/27/2015 17:50:46 | 48.23 | 45.13 | 407 | 1.68 | 1.34 | 22.3 |
| 4/27/2015 17:51:05 | 48.56 | 45.46 | 9 | 1.65 | 1.48 | 0.5 |
| 4/27/2015 17:51:06 | 48.88 | 45.78 | 140 | 1.66 | 1.31 | 7.7 |
| 4/27/2015 17:52:16 | 49.21 | 46.11 | 0 | 1.65 | 1.30 | 0.0 |
| 4/27/2015 17:52:19 | 49.54 | 46.44 | 134 | 1.66 | 1.20 | 7.3 |
| 4/27/2015 17:52:21 | 49.87 | 46.77 | 157 | 1.64 | 1.22 | 8.6 |
| 4/27/2015 17:52:45 | 50.20 | 47.10 | 66 | 1.66 | 1.38 | 3.6 |
| 4/27/2015 17:52:50 | 50.53 | 47.43 | 72 | 1.64 | 1.51 | 4.0 |
| 4/27/2015 17:52:55 | 50.85 | 47.75 | 51 | 1.66 | 1.39 | 2.8 |
| 4/27/2015 17:52:57 | 51.18 | 48.08 | 121 | 1.68 | 1.38 | 6.6 |
| 4/27/2015 17:53:00 | 51.51 | 48.41 | 122 | 1.63 | 1.34 | 6.7 |
| 4/27/2015 17:53:28 | 51.84 | 48.74 | 35 | 1.67 | 1.21 | 1.9 |
| 4/27/2015 17:53:33 | 52.17 | 49.07 | 69 | 1.65 | 1.16 | 3.8 |
| 4/27/2015 17:53:39 | 52.49 | 49.39 | 51 | 1.66 | 1.22 | 2.8 |
| 4/27/2015 17:53:47 | 52.82 | 49.72 | 49 | 1.66 | 1.24 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 17:53:54 | 53.15 | 50.05 | 46 | 1.64 | 1.16 | 2.5 |
| 4/27/2015 | 17:54:00 | 53.42 | 50.32 | 46 | 1.68 | 1.29 | 2.5 |

## I93 - Summary

**Pattern Number:**
Area1_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 17:48:47

**End Date:**
4/27/2015 17:55:40

**Operator Note:**
'3.1 2.9 c Auto Complete'

**Northing:**
364,473.36

**Easting:**
248,519.99

**Tide (feet):**
3.10



## Hole: I94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:15:37 | 31.17 | 30.07 | 765 | 1.08 | 0.76 | 41.8 |
| 4/27/2015 14:15:37 | 31.50 | 30.40 | 755 | 1.09 | 0.75 | 41.3 |
| 4/27/2015 14:15:38 | 31.82 | 30.72 | 749 | 1.07 | 0.77 | 40.9 |
| 4/27/2015 14:15:38 | 32.15 | 31.05 | 744 | 1.07 | 0.76 | 40.7 |
| 4/27/2015 14:15:39 | 32.48 | 31.38 | 748 | 1.07 | 0.76 | 40.9 |
| 4/27/2015 14:15:39 | 32.81 | 31.71 | 747 | 1.07 | 0.76 | 40.9 |
| 4/27/2015 14:15:40 | 33.14 | 32.04 | 755 | 1.06 | 0.76 | 41.3 |
| 4/27/2015 14:15:40 | 33.46 | 32.36 | 753 | 1.07 | 0.76 | 41.2 |
| 4/27/2015 14:15:41 | 33.79 | 32.69 | 762 | 1.07 | 0.76 | 41.7 |
| 4/27/2015 14:15:41 | 34.12 | 33.02 | 762 | 1.07 | 0.76 | 41.7 |
| 4/27/2015 14:15:41 | 34.45 | 33.35 | 759 | 1.06 | 0.76 | 41.5 |
| 4/27/2015 14:15:42 | 34.78 | 33.68 | 759 | 1.06 | 0.76 | 41.5 |
| 4/27/2015 14:15:42 | 35.11 | 34.01 | 757 | 1.07 | 0.76 | 41.4 |
| 4/27/2015 14:15:43 | 35.43 | 34.33 | 748 | 1.05 | 0.76 | 40.9 |
| 4/27/2015 14:15:43 | 35.76 | 34.66 | 748 | 1.07 | 0.76 | 40.9 |
| 4/27/2015 14:15:44 | 36.09 | 34.99 | 754 | 1.07 | 0.76 | 41.2 |
| 4/27/2015 14:15:45 | 36.42 | 35.32 | 762 | 1.07 | 0.76 | 41.7 |
| 4/27/2015 14:15:45 | 36.75 | 35.65 | 757 | 1.06 | 0.76 | 41.4 |
| 4/27/2015 14:15:46 | 37.07 | 35.97 | 757 | 1.05 | 0.76 | 41.4 |
| 4/27/2015 14:15:46 | 37.40 | 36.30 | 757 | 1.05 | 0.76 | 41.4 |
| 4/27/2015 14:15:46 | 37.73 | 36.63 | 777 | 1.05 | 0.76 | 42.5 |
| 4/27/2015 14:15:47 | 38.06 | 36.96 | 765 | 1.07 | 0.76 | 41.8 |
| 4/27/2015 14:15:47 | 38.39 | 37.29 | 767 | 1.06 | 0.76 | 42.0 |
| 4/27/2015 14:15:48 | 38.71 | 37.61 | 775 | 1.05 | 0.76 | 42.4 |
| 4/27/2015 14:15:48 | 39.04 | 37.94 | 775 | 1.08 | 0.76 | 42.4 |
| 4/27/2015 14:15:49 | 39.37 | 38.27 | 772 | 1.06 | 0.77 | 42.2 |
| 4/27/2015 14:15:49 | 39.70 | 38.60 | 773 | 1.06 | 0.76 | 42.3 |
| 4/27/2015 14:15:50 | 40.03 | 38.93 | 773 | 1.06 | 0.76 | 42.3 |
| 4/27/2015 14:15:50 | 40.35 | 39.25 | 764 | 1.07 | 0.76 | 41.8 |
| 4/27/2015 14:15:51 | 40.68 | 39.58 | 764 | 1.07 | 0.76 | 41.8 |
| 4/27/2015 14:15:51 | 41.01 | 39.91 | 754 | 1.07 | 0.76 | 41.2 |
| 4/27/2015 14:15:51 | 41.34 | 40.24 | 761 | 1.06 | 0.76 | 41.6 |
| 4/27/2015 14:15:52 | 41.67 | 40.57 | 754 | 1.07 | 0.76 | 41.2 |
| 4/27/2015 14:15:52 | 41.99 | 40.89 | 761 | 1.07 | 0.76 | 41.6 |
| 4/27/2015 14:15:53 | 42.32 | 41.22 | 763 | 1.05 | 0.76 | 41.7 |
| 4/27/2015 14:15:53 | 42.65 | 41.55 | 766 | 1.07 | 0.76 | 41.9 |
| 4/27/2015 14:15:54 | 42.98 | 41.88 | 745 | 1.07 | 0.76 | 40.7 |
| 4/27/2015 14:15:55 | 43.31 | 42.21 | 745 | 1.05 | 0.76 | 40.7 |
| 4/27/2015 14:15:55 | 43.64 | 42.54 | 746 | 1.07 | 0.76 | 40.8 |
| 4/27/2015 14:15:56 | 43.96 | 42.86 | 746 | 1.07 | 0.76 | 40.8 |
| 4/27/2015 14:15:56 | 44.29 | 43.19 | 734 | 1.07 | 0.76 | 40.1 |
| 4/27/2015 14:15:56 | 44.62 | 43.52 | 734 | 1.06 | 0.76 | 40.1 |
| 4/27/2015 14:15:57 | 44.95 | 43.85 | 743 | 1.05 | 0.76 | 40.6 |
| 4/27/2015 14:15:57 | 45.28 | 44.18 | 725 | 1.07 | 0.76 | 39.7 |
| 4/27/2015 14:17:06 | 45.60 | 44.50 | 2 | 1.10 | 0.80 | 0.1 |
| 4/27/2015 14:17:12 | 45.93 | 44.83 | 80 | 1.06 | 1.00 | 4.4 |
| 4/27/2015 14:17:13 | 46.26 | 45.16 | 187 | 1.09 | 1.20 | 10.2 |
| 4/27/2015 14:17:15 | 46.59 | 45.49 | 191 | 1.14 | 0.95 | 10.4 |
| 4/27/2015 14:17:21 | 46.92 | 45.82 | 55 | 1.11 | 0.98 | 3.0 |
| 4/27/2015 14:17:27 | 47.24 | 46.14 | 66 | 1.04 | 1.03 | 3.6 |
| 4/27/2015 14:17:33 | 47.57 | 46.47 | 58 | 1.06 | 0.99 | 3.2 |
| 4/27/2015 14:17:40 | 47.90 | 46.80 | 43 | 1.03 | 0.91 | 2.4 |
| 4/27/2015 14:17:48 | 48.23 | 47.13 | 38 | 1.02 | 0.89 | 2.1 |
| 4/27/2015 14:17:51 | 48.31 | 47.21 | 40 | 1.16 | 1.24 | 2.2 |

## I94 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:14:02

**End Date:**
4/27/2015 14:19:30

**Operator Note:**
'1.1 1.3 a Auto Complete'

**Northing:**
364,519.98

**Easting:**
248,575.55

**Tide (feet):**
1.10



## Hole: I95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:15:39 | 31.17 | 30.07 | 1,140 | 0.28 | 0.31 | 62.4 |
| 4/27/2015 14:15:39 | 31.50 | 30.40 | 1,140 | 0.28 | 0.31 | 62.4 |
| 4/27/2015 14:15:39 | 31.82 | 30.72 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 14:15:40 | 32.15 | 31.05 | 1,125 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 14:15:40 | 32.48 | 31.38 | 1,134 | 0.28 | 0.31 | 62.0 |
| 4/27/2015 14:15:40 | 32.81 | 31.71 | 1,118 | 0.28 | 0.31 | 61.1 |
| 4/27/2015 14:15:41 | 33.14 | 32.04 | 1,118 | 0.28 | 0.31 | 61.1 |
| 4/27/2015 14:15:41 | 33.46 | 32.36 | 1,128 | 0.27 | 0.31 | 61.7 |
| 4/27/2015 14:15:41 | 33.79 | 32.69 | 1,128 | 0.27 | 0.31 | 61.7 |
| 4/27/2015 14:15:41 | 34.12 | 33.02 | 1,128 | 0.27 | 0.31 | 61.7 |
| 4/27/2015 14:15:42 | 34.45 | 33.35 | 1,131 | 0.27 | 0.31 | 61.8 |
| 4/27/2015 14:15:42 | 34.78 | 33.68 | 1,131 | 0.27 | 0.31 | 61.8 |
| 4/27/2015 14:15:42 | 35.11 | 34.01 | 1,118 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 14:15:43 | 35.43 | 34.33 | 1,118 | 0.28 | 0.32 | 61.1 |
| 4/27/2015 14:15:43 | 35.76 | 34.66 | 1,137 | 0.28 | 0.31 | 62.2 |
| 4/27/2015 14:15:43 | 36.09 | 34.99 | 1,125 | 0.28 | 0.31 | 61.5 |
| 4/27/2015 14:15:44 | 36.42 | 35.32 | 1,125 | 0.28 | 0.31 | 61.5 |
| 4/27/2015 14:15:44 | 36.75 | 35.65 | 1,122 | 0.28 | 0.32 | 61.3 |
| 4/27/2015 14:15:44 | 37.07 | 35.97 | 1,119 | 0.35 | 0.33 | 61.2 |
| 4/27/2015 14:15:45 | 37.40 | 36.30 | 1,119 | 0.35 | 0.33 | 61.2 |
| 4/27/2015 14:15:45 | 37.73 | 36.63 | 1,119 | 0.27 | 0.31 | 61.2 |
| 4/27/2015 14:15:45 | 38.06 | 36.96 | 1,119 | 0.27 | 0.31 | 61.2 |
| 4/27/2015 14:15:45 | 38.39 | 37.29 | 1,113 | 0.31 | 0.32 | 60.9 |
| 4/27/2015 14:15:46 | 38.71 | 37.61 | 1,110 | 0.31 | 0.32 | 60.7 |
| 4/27/2015 14:15:47 | 39.04 | 37.94 | 1,110 | 0.31 | 0.32 | 60.7 |
| 4/27/2015 14:15:47 | 39.37 | 38.27 | 1,103 | 0.29 | 0.32 | 60.3 |
| 4/27/2015 14:15:47 | 39.70 | 38.60 | 1,103 | 0.29 | 0.32 | 60.3 |
| 4/27/2015 14:15:47 | 40.03 | 38.93 | 1,080 | 0.27 | 0.32 | 59.1 |
| 4/27/2015 14:15:48 | 40.35 | 39.25 | 1,080 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 14:15:48 | 40.68 | 39.58 | 1,080 | 0.28 | 0.32 | 59.1 |
| 4/27/2015 14:15:48 | 41.01 | 39.91 | 1,104 | 0.28 | 0.32 | 60.4 |
| 4/27/2015 14:15:49 | 41.34 | 40.24 | 1,100 | 0.29 | 0.31 | 60.1 |
| 4/27/2015 14:15:49 | 41.67 | 40.57 | 1,100 | 0.29 | 0.31 | 60.1 |
| 4/27/2015 14:15:49 | 41.99 | 40.89 | 1,109 | 0.29 | 0.32 | 60.6 |
| 4/27/2015 14:15:50 | 42.32 | 41.22 | 1,109 | 0.29 | 0.32 | 60.6 |
| 4/27/2015 14:15:50 | 42.65 | 41.55 | 1,115 | 0.29 | 0.31 | 61.0 |
| 4/27/2015 14:15:50 | 42.98 | 41.88 | 1,138 | 0.28 | 0.32 | 62.2 |
| 4/27/2015 14:15:51 | 43.31 | 42.21 | 1,138 | 0.28 | 0.32 | 62.2 |
| 4/27/2015 14:15:51 | 43.64 | 42.54 | 1,118 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 14:15:51 | 43.96 | 42.86 | 1,118 | 0.27 | 0.32 | 61.1 |
| 4/27/2015 14:15:51 | 44.29 | 43.19 | 1,124 | 0.28 | 0.32 | 61.5 |
| 4/27/2015 14:15:52 | 44.62 | 43.52 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 14:15:52 | 44.95 | 43.85 | 1,119 | 0.28 | 0.32 | 61.2 |
| 4/27/2015 14:15:52 | 45.28 | 44.18 | 1,116 | 0.27 | 0.32 | 61.0 |
| 4/27/2015 14:15:53 | 45.60 | 44.50 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 14:15:53 | 45.93 | 44.83 | 1,113 | 0.28 | 0.31 | 60.9 |
| 4/27/2015 14:15:53 | 46.26 | 45.16 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 14:15:54 | 46.59 | 45.49 | 1,113 | 0.27 | 0.32 | 60.9 |
| 4/27/2015 14:15:54 | 46.92 | 45.82 | 1,107 | 0.28 | 0.32 | 60.5 |
| 4/27/2015 14:15:54 | 47.24 | 46.14 | 1,107 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:15:55 | 47.57 | 46.47 | 1,107 | 0.28 | 0.33 | 60.5 |
| 4/27/2015 14:16:03 | 47.90 | 46.80 | 0 | 2.57 | 0.34 | 0.0 |
| 4/27/2015 14:16:03 | 48.23 | 47.13 | 155 | 3.80 | 0.39 | 8.5 |
| 4/27/2015 14:16:05 | 48.56 | 47.46 | 342 | 3.84 | 0.38 | 18.7 |
| 4/27/2015 14:16:07 | 48.88 | 47.78 | 170 | 4.59 | 0.36 | 9.3 |
| 4/27/2015 14:16:08 | 49.21 | 48.11 | 228 | 3.31 | 0.35 | 12.4 |
| 4/27/2015 14:16:08 | 49.54 | 48.44 | 316 | 3.40 | 0.35 | 17.3 |
| 4/27/2015 14:16:12 | 49.87 | 48.77 | 0 | 3.62 | 0.37 | 0.0 |
| 4/27/2015 14:16:13 | 50.20 | 49.10 | 79 | 4.51 | 0.40 | 4.3 |
| 4/27/2015 14:16:15 | 50.53 | 49.43 | 238 | 3.85 | 0.39 | 13.0 |
| 4/27/2015 14:16:29 | 50.85 | 49.75 | 43 | 2.82 | 0.39 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:16:33 | 51.18 | 50.08 | 90 | 3.28 | 0.40 | 4.9 |
| 4/27/2015 | 14:16:36 | 51.51 | 50.41 | 99 | 3.58 | 0.39 | 5.4 |
| 4/27/2015 | 14:16:41 | 51.84 | 50.74 | 84 | 3.44 | 0.41 | 4.6 |
| 4/27/2015 | 14:16:45 | 52.17 | 51.07 | 94 | 3.60 | 0.40 | 5.1 |
| 4/27/2015 | 14:16:49 | 52.49 | 51.39 | 75 | 3.57 | 0.40 | 4.1 |
| 4/27/2015 | 14:16:55 | 52.82 | 51.72 | 61 | 3.37 | 0.40 | 3.3 |
| 4/27/2015 | 14:16:59 | 53.15 | 52.05 | 107 | 3.54 | 0.40 | 5.8 |
| 4/27/2015 | 14:18:11 | 53.48 | 52.38 | 58 | 3.02 | 0.40 | 3.2 |
| 4/27/2015 | 14:18:17 | 53.81 | 52.71 | 69 | 3.58 | 0.40 | 3.8 |
| 4/27/2015 | 14:18:46 | 54.13 | 53.03 | 0 | 3.55 | 0.39 | 0.0 |
| 4/27/2015 | 14:18:53 | 54.46 | 53.36 | 49 | 3.54 | 0.41 | 2.7 |
| 4/27/2015 | 14:18:57 | 54.63 | 53.53 | 44 | 3.11 | 0.40 | 2.4 |

## I95 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:13:58

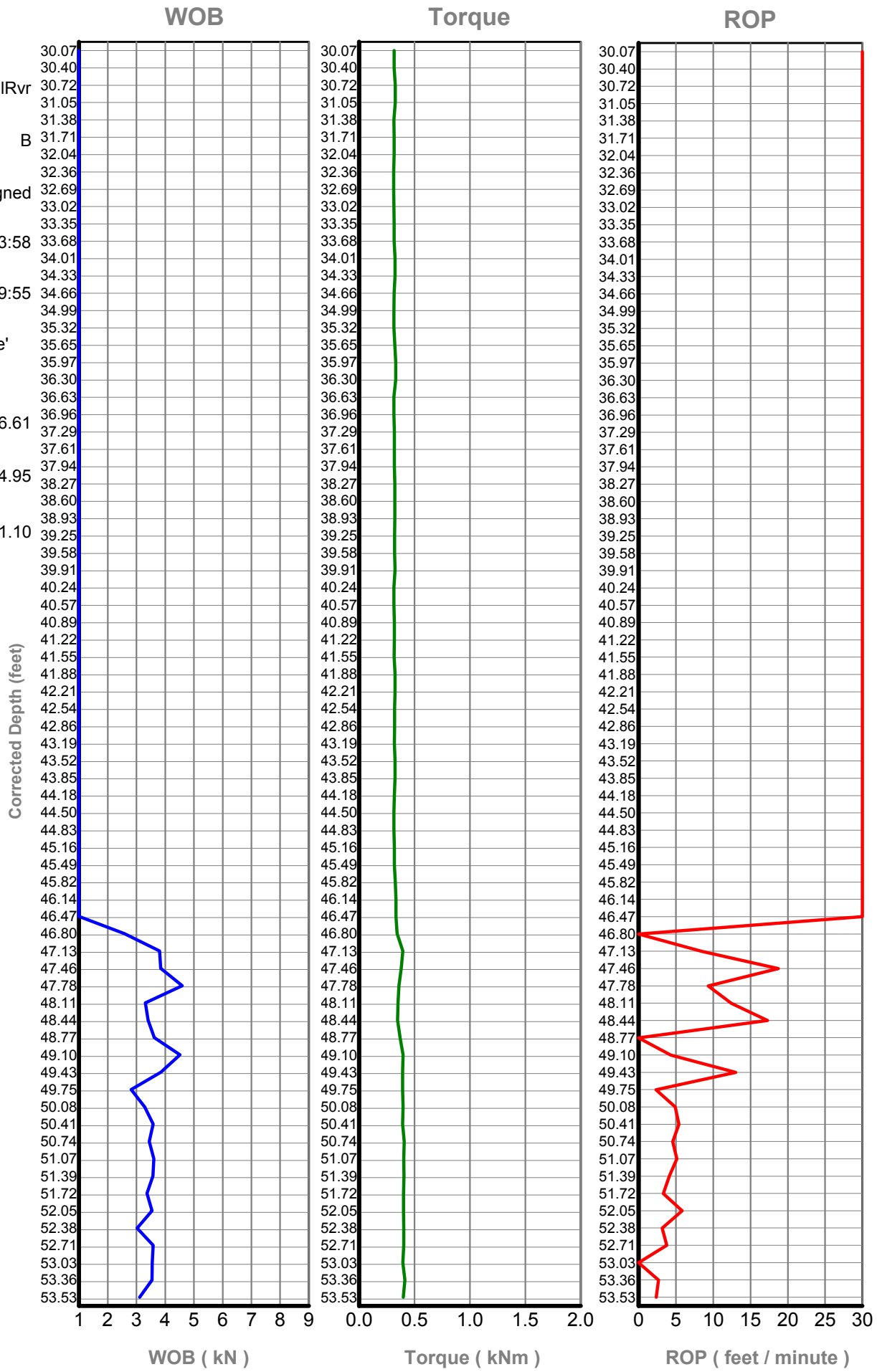
**End Date:**
4/27/2015 14:19:55

**Operator Note:**
'1.1 1.3 b Auto Complete'

**Northing:**
364,566.61

**Easting:**
248,634.95

**Tide (feet):**
1.10



## Hole: I96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/27/2015 14:15:16 | 31.17 | 30.07 | 1,182 | 1.72 | 0.28 | 64.6 |
| 4/27/2015 14:15:16 | 31.50 | 30.40 | 1,172 | 1.72 | 0.29 | 64.1 |
| 4/27/2015 14:15:16 | 31.82 | 30.72 | 1,172 | 1.72 | 0.29 | 64.1 |
| 4/27/2015 14:15:16 | 32.15 | 31.05 | 1,172 | 1.70 | 0.28 | 64.1 |
| 4/27/2015 14:15:17 | 32.48 | 31.38 | 1,172 | 1.70 | 0.28 | 64.1 |
| 4/27/2015 14:15:17 | 32.81 | 31.71 | 1,169 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:17 | 33.14 | 32.04 | 1,172 | 1.72 | 0.28 | 64.1 |
| 4/27/2015 14:15:18 | 33.46 | 32.36 | 1,172 | 1.72 | 0.28 | 64.1 |
| 4/27/2015 14:15:18 | 33.79 | 32.69 | 1,168 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:18 | 34.12 | 33.02 | 1,168 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:18 | 34.45 | 33.35 | 1,166 | 1.70 | 0.28 | 63.7 |
| 4/27/2015 14:15:19 | 34.78 | 33.68 | 1,156 | 1.71 | 0.28 | 63.2 |
| 4/27/2015 14:15:19 | 35.11 | 34.01 | 1,156 | 1.71 | 0.28 | 63.2 |
| 4/27/2015 14:15:19 | 35.43 | 34.33 | 1,169 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:20 | 35.76 | 34.66 | 1,169 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:20 | 36.09 | 34.99 | 1,172 | 1.72 | 0.28 | 64.1 |
| 4/27/2015 14:15:20 | 36.42 | 35.32 | 1,165 | 1.73 | 0.28 | 63.7 |
| 4/27/2015 14:15:21 | 36.75 | 35.65 | 1,165 | 1.73 | 0.28 | 63.7 |
| 4/27/2015 14:15:21 | 37.07 | 35.97 | 1,168 | 1.74 | 0.28 | 63.9 |
| 4/27/2015 14:15:22 | 37.40 | 36.30 | 1,168 | 1.74 | 0.28 | 63.9 |
| 4/27/2015 14:15:21 | 37.73 | 36.63 | 1,171 | 1.73 | 0.28 | 64.0 |
| 4/27/2015 14:15:22 | 38.06 | 36.96 | 1,171 | 1.73 | 0.28 | 64.0 |
| 4/27/2015 14:15:22 | 38.39 | 37.29 | 1,168 | 1.71 | 0.28 | 63.9 |
| 4/27/2015 14:15:23 | 38.71 | 37.61 | 1,165 | 1.68 | 0.28 | 63.7 |
| 4/27/2015 14:15:23 | 39.04 | 37.94 | 1,165 | 1.68 | 0.28 | 63.7 |
| 4/27/2015 14:15:23 | 39.37 | 38.27 | 1,158 | 1.70 | 0.28 | 63.3 |
| 4/27/2015 14:15:24 | 39.70 | 38.60 | 1,158 | 1.70 | 0.28 | 63.3 |
| 4/27/2015 14:15:24 | 40.03 | 38.93 | 1,168 | 1.70 | 0.28 | 63.9 |
| 4/27/2015 14:15:24 | 40.35 | 39.25 | 1,165 | 1.71 | 0.27 | 63.7 |
| 4/27/2015 14:15:25 | 40.68 | 39.58 | 1,165 | 1.71 | 0.27 | 63.7 |
| 4/27/2015 14:15:25 | 41.01 | 39.91 | 1,162 | 1.70 | 0.28 | 63.6 |
| 4/27/2015 14:15:25 | 41.34 | 40.24 | 1,162 | 1.70 | 0.28 | 63.6 |
| 4/27/2015 14:15:25 | 41.67 | 40.57 | 1,162 | 1.71 | 0.28 | 63.6 |
| 4/27/2015 14:15:26 | 41.99 | 40.89 | 1,165 | 1.70 | 0.28 | 63.7 |
| 4/27/2015 14:15:26 | 42.32 | 41.22 | 1,165 | 1.70 | 0.28 | 63.7 |
| 4/27/2015 14:15:26 | 42.65 | 41.55 | 1,159 | 1.74 | 0.28 | 63.4 |
| 4/27/2015 14:15:27 | 42.98 | 41.88 | 1,159 | 1.74 | 0.28 | 63.4 |
| 4/27/2015 14:15:27 | 43.31 | 42.21 | 1,156 | 1.72 | 0.28 | 63.2 |
| 4/27/2015 14:15:27 | 43.64 | 42.54 | 1,150 | 1.70 | 0.28 | 62.9 |
| 4/27/2015 14:15:28 | 43.96 | 42.86 | 1,150 | 1.70 | 0.28 | 62.9 |
| 4/27/2015 14:15:28 | 44.29 | 43.19 | 1,159 | 1.74 | 0.28 | 63.4 |
| 4/27/2015 14:15:28 | 44.62 | 43.52 | 1,159 | 1.74 | 0.28 | 63.4 |
| 4/27/2015 14:15:28 | 44.95 | 43.85 | 1,153 | 1.64 | 0.28 | 63.1 |
| 4/27/2015 14:15:29 | 45.28 | 44.18 | 1,153 | 1.64 | 0.28 | 63.1 |
| 4/27/2015 14:15:29 | 45.60 | 44.50 | 1,153 | 1.70 | 0.28 | 63.1 |
| 4/27/2015 14:15:29 | 45.93 | 44.83 | 1,144 | 1.74 | 0.28 | 62.5 |
| 4/27/2015 14:15:30 | 46.26 | 45.16 | 1,144 | 1.74 | 0.28 | 62.5 |
| 4/27/2015 14:15:30 | 46.59 | 45.49 | 1,161 | 1.70 | 0.28 | 63.5 |
| 4/27/2015 14:15:30 | 46.92 | 45.82 | 1,161 | 1.70 | 0.28 | 63.5 |
| 4/27/2015 14:15:52 | 47.24 | 46.14 | 0 | 1.77 | 1.29 | 0.0 |
| 4/27/2015 14:15:52 | 47.57 | 46.47 | 149 | 1.79 | 1.44 | 8.1 |
| 4/27/2015 14:15:54 | 47.90 | 46.80 | 275 | 1.76 | 1.24 | 15.0 |
| 4/27/2015 14:15:55 | 48.23 | 47.13 | 426 | 1.79 | 1.07 | 23.3 |
| 4/27/2015 14:15:55 | 48.56 | 47.46 | 426 | 1.79 | 1.07 | 23.3 |
| 4/27/2015 14:15:55 | 48.88 | 47.78 | 436 | 1.77 | 1.20 | 23.9 |
| 4/27/2015 14:15:56 | 49.21 | 48.11 | 533 | 1.77 | 1.00 | 29.2 |
| 4/27/2015 14:16:15 | 49.54 | 48.44 | 26 | 1.74 | 1.39 | 1.4 |
| 4/27/2015 14:16:16 | 49.87 | 48.77 | 133 | 1.68 | 1.21 | 7.3 |
| 4/27/2015 14:16:43 | 50.20 | 49.10 | 0 | 1.69 | 1.11 | 0.0 |
| 4/27/2015 14:16:45 | 50.53 | 49.43 | 51 | 1.79 | 1.09 | 2.8 |
| 4/27/2015 14:16:45 | 50.85 | 49.75 | 137 | 1.74 | 1.11 | 7.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/27/2015 | 14:16:46 | 51.18 | 50.08 | 248 | 1.72 | 1.25 | 13.6 |
| 4/27/2015 | 14:16:47 | 51.51 | 50.41 | 330 | 1.76 | 1.21 | 18.0 |
| 4/27/2015 | 14:16:48 | 51.84 | 50.74 | 418 | 1.73 | 1.33 | 22.8 |
| 4/27/2015 | 14:16:48 | 52.17 | 51.07 | 439 | 1.68 | 1.29 | 24.0 |
| 4/27/2015 | 14:17:17 | 52.49 | 51.39 | 63 | 1.75 | 1.06 | 3.4 |
| 4/27/2015 | 14:17:18 | 52.82 | 51.72 | 63 | 1.75 | 1.06 | 3.4 |
| 4/27/2015 | 14:17:18 | 53.15 | 52.05 | 206 | 1.77 | 0.89 | 11.3 |
| 4/27/2015 | 14:17:19 | 53.48 | 52.38 | 444 | 1.74 | 1.40 | 24.3 |
| 4/27/2015 | 14:17:21 | 53.81 | 52.71 | 231 | 1.54 | 1.02 | 12.7 |
| 4/27/2015 | 14:17:23 | 54.13 | 53.03 | 155 | 1.78 | 1.23 | 8.5 |
| 4/27/2015 | 14:17:27 | 54.46 | 53.36 | 87 | 1.72 | 1.23 | 4.7 |
| 4/27/2015 | 14:17:31 | 54.79 | 53.69 | 87 | 1.76 | 1.25 | 4.7 |
| 4/27/2015 | 14:17:35 | 55.12 | 54.02 | 78 | 1.76 | 1.26 | 4.3 |
| 4/27/2015 | 14:17:40 | 55.45 | 54.35 | 75 | 1.76 | 1.24 | 4.1 |
| 4/27/2015 | 14:17:45 | 55.77 | 54.67 | 70 | 1.76 | 1.45 | 3.8 |
| 4/27/2015 | 14:17:49 | 56.10 | 55.00 | 98 | 1.72 | 1.18 | 5.4 |
| 4/27/2015 | 14:18:35 | 56.43 | 55.33 | 0 | 1.79 | 1.00 | 0.0 |
| 4/27/2015 | 14:26:09 | 56.63 | 55.53 | 0 | 1.76 | 1.14 | 0.0 |

## I96 - Summary

**Pattern Number:**
Areal_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/27/2015 14:14:04

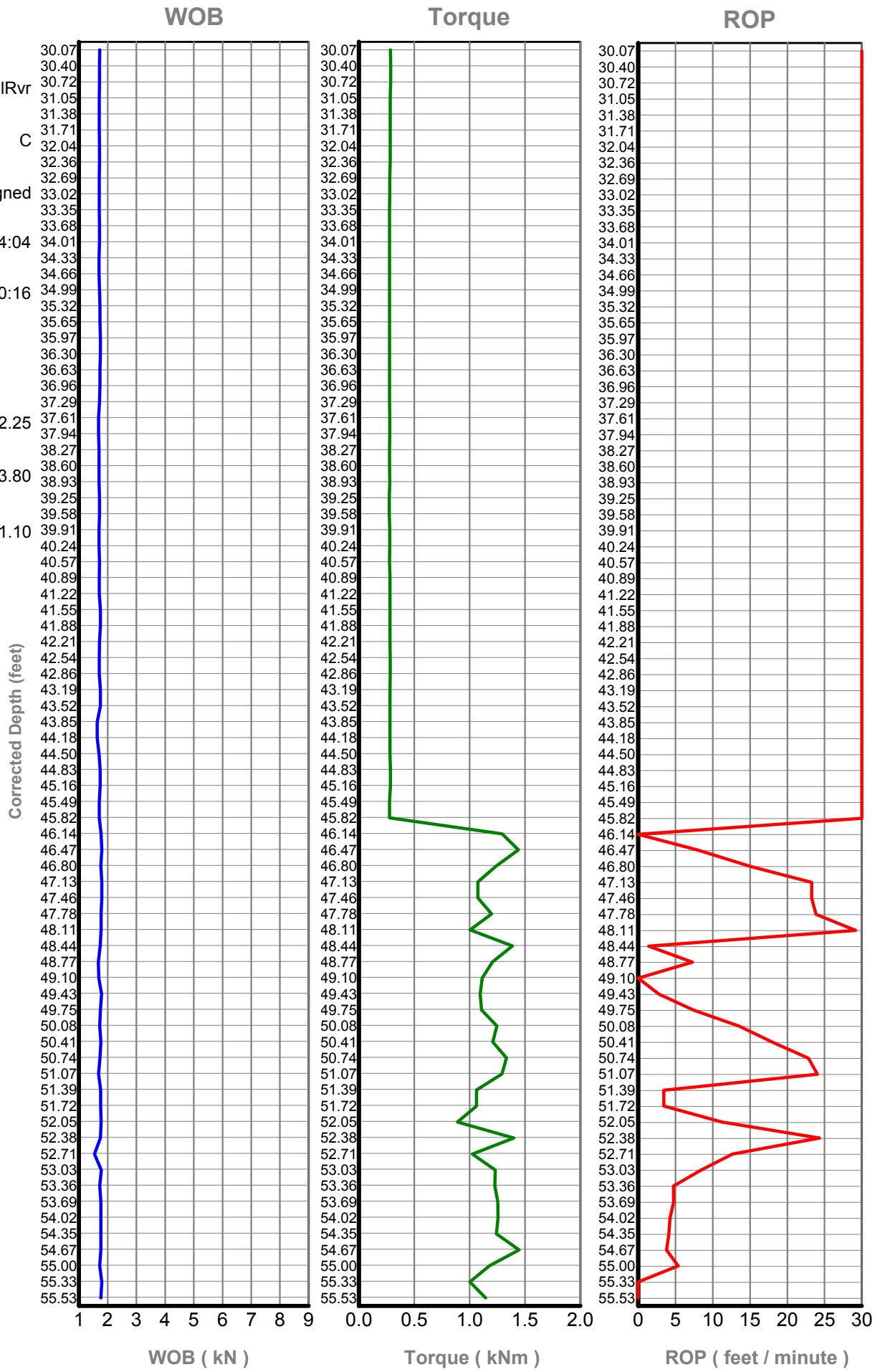
**End Date:**
4/27/2015 14:40:16

**Operator Note:**
'1.1 1.3 C Auto Complete'

**Northing:**
364,612.25

**Easting:**
248,693.80

**Tide (feet):**
1.10



## Hole: I97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:26:20 | 32.81 | 30.31 | 764 | 1.03 | 0.18 | 41.8 |
| 4/29/2015 2:26:20 | 33.14 | 30.64 | 764 | 1.03 | 0.18 | 41.8 |
| 4/29/2015 2:26:20 | 33.46 | 30.96 | 749 | 1.00 | 0.19 | 40.9 |
| 4/29/2015 2:26:21 | 33.79 | 31.29 | 747 | 1.03 | 0.19 | 40.9 |
| 4/29/2015 2:26:21 | 34.12 | 31.62 | 762 | 1.01 | 0.18 | 41.7 |
| 4/29/2015 2:26:22 | 34.45 | 31.95 | 752 | 1.03 | 0.18 | 41.1 |
| 4/29/2015 2:26:22 | 34.78 | 32.28 | 752 | 1.03 | 0.18 | 41.1 |
| 4/29/2015 2:26:23 | 35.11 | 32.61 | 740 | 1.02 | 0.18 | 40.4 |
| 4/29/2015 2:26:23 | 35.43 | 32.93 | 740 | 1.04 | 0.18 | 40.5 |
| 4/29/2015 2:26:24 | 35.76 | 33.26 | 741 | 1.03 | 0.18 | 40.5 |
| 4/29/2015 2:26:24 | 36.09 | 33.59 | 741 | 1.04 | 0.19 | 40.5 |
| 4/29/2015 2:26:25 | 36.42 | 33.92 | 738 | 1.03 | 0.18 | 40.4 |
| 4/29/2015 2:26:25 | 36.75 | 34.25 | 738 | 1.03 | 0.18 | 40.4 |
| 4/29/2015 2:26:25 | 37.07 | 34.57 | 738 | 1.02 | 0.18 | 40.4 |
| 4/29/2015 2:26:26 | 37.40 | 34.90 | 761 | 1.04 | 0.18 | 41.6 |
| 4/29/2015 2:26:26 | 37.73 | 35.23 | 759 | 1.04 | 0.19 | 41.5 |
| 4/29/2015 2:26:27 | 38.06 | 35.56 | 762 | 1.02 | 0.18 | 41.7 |
| 4/29/2015 2:26:27 | 38.39 | 35.89 | 767 | 1.04 | 0.18 | 41.9 |
| 4/29/2015 2:26:28 | 38.71 | 36.21 | 765 | 1.04 | 0.18 | 41.8 |
| 4/29/2015 2:26:29 | 39.04 | 36.54 | 750 | 1.03 | 0.19 | 41.0 |
| 4/29/2015 2:26:29 | 39.37 | 36.87 | 758 | 1.03 | 0.18 | 41.4 |
| 4/29/2015 2:26:30 | 39.70 | 37.20 | 759 | 1.03 | 0.18 | 41.5 |
| 4/29/2015 2:26:30 | 40.03 | 37.53 | 755 | 1.02 | 0.18 | 41.3 |
| 4/29/2015 2:26:31 | 40.35 | 37.85 | 755 | 1.02 | 0.18 | 41.3 |
| 4/29/2015 2:26:31 | 40.68 | 38.18 | 750 | 1.02 | 0.18 | 41.0 |
| 4/29/2015 2:26:31 | 41.01 | 38.51 | 762 | 1.04 | 0.19 | 41.7 |
| 4/29/2015 2:26:32 | 41.34 | 38.84 | 740 | 1.03 | 0.18 | 40.5 |
| 4/29/2015 2:26:32 | 41.67 | 39.17 | 745 | 1.01 | 0.18 | 40.7 |
| 4/29/2015 2:26:33 | 41.99 | 39.49 | 746 | 1.02 | 0.19 | 40.8 |
| 4/29/2015 2:26:33 | 42.32 | 39.82 | 758 | 1.05 | 0.18 | 41.5 |
| 4/29/2015 2:26:34 | 42.65 | 40.15 | 748 | 1.03 | 0.18 | 40.9 |
| 4/29/2015 2:26:34 | 42.98 | 40.48 | 763 | 1.02 | 0.18 | 41.7 |
| 4/29/2015 2:26:35 | 43.31 | 40.81 | 751 | 1.05 | 0.19 | 41.1 |
| 4/29/2015 2:26:35 | 43.64 | 41.14 | 741 | 1.03 | 0.18 | 40.5 |
| 4/29/2015 2:26:36 | 43.96 | 41.46 | 741 | 1.03 | 0.18 | 40.5 |
| 4/29/2015 2:26:36 | 44.29 | 41.79 | 741 | 1.02 | 0.18 | 40.5 |
| 4/29/2015 2:26:36 | 44.62 | 42.12 | 738 | 1.02 | 0.18 | 40.4 |
| 4/29/2015 2:26:37 | 44.95 | 42.45 | 738 | 1.03 | 0.18 | 40.4 |
| 4/29/2015 2:26:37 | 45.28 | 42.78 | 745 | 1.02 | 0.18 | 40.8 |
| 4/29/2015 2:26:38 | 45.60 | 43.10 | 745 | 1.02 | 0.18 | 40.8 |
| 4/29/2015 2:26:38 | 45.93 | 43.43 | 755 | 1.04 | 0.18 | 41.3 |
| 4/29/2015 2:26:39 | 46.26 | 43.76 | 746 | 1.05 | 0.18 | 40.8 |
| 4/29/2015 2:26:40 | 46.59 | 44.09 | 749 | 1.07 | 0.18 | 40.9 |
| 4/29/2015 2:27:07 | 46.92 | 44.42 | 6 | 1.22 | 1.11 | 0.3 |
| 4/29/2015 2:27:11 | 47.24 | 44.74 | 66 | 0.98 | 0.95 | 3.6 |
| 4/29/2015 2:27:12 | 47.57 | 45.07 | 185 | 0.99 | 1.29 | 10.1 |
| 4/29/2015 2:27:31 | 47.90 | 45.40 | 20 | 1.62 | 1.53 | 1.1 |
| 4/29/2015 2:27:32 | 48.23 | 45.73 | 142 | 1.98 | 1.39 | 7.8 |
| 4/29/2015 2:27:33 | 48.56 | 46.06 | 244 | 1.87 | 1.30 | 13.3 |
| 4/29/2015 2:27:34 | 48.88 | 46.38 | 321 | 1.92 | 1.18 | 17.6 |
| 4/29/2015 2:27:35 | 49.21 | 46.71 | 335 | 1.72 | 1.46 | 18.3 |
| 4/29/2015 2:27:56 | 49.54 | 47.04 | 12 | 1.09 | 1.34 | 0.6 |
| 4/29/2015 2:27:58 | 49.87 | 47.37 | 142 | 1.02 | 1.48 | 7.8 |
| 4/29/2015 2:28:00 | 50.20 | 47.70 | 207 | 1.16 | 1.06 | 11.3 |
| 4/29/2015 2:28:03 | 50.53 | 48.03 | 121 | 1.11 | 1.15 | 6.6 |
| 4/29/2015 2:28:06 | 50.85 | 48.35 | 130 | 1.10 | 1.22 | 7.1 |
| 4/29/2015 2:28:09 | 51.18 | 48.68 | 90 | 1.15 | 1.19 | 4.9 |
| 4/29/2015 2:28:21 | 51.51 | 49.01 | 72 | 1.03 | 1.07 | 3.9 |
| 4/29/2015 2:28:27 | 51.84 | 49.34 | 55 | 1.07 | 1.02 | 3.0 |
| 4/29/2015 2:28:34 | 52.17 | 49.67 | 55 | 1.09 | 0.92 | 3.0 |
| 4/29/2015 2:28:41 | 52.49 | 49.99 | 49 | 0.99 | 0.99 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:28:45 | 52.61 | 50.11 | 43 | 0.55 | 1.23 | 2.4 |

## I97 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:24:56

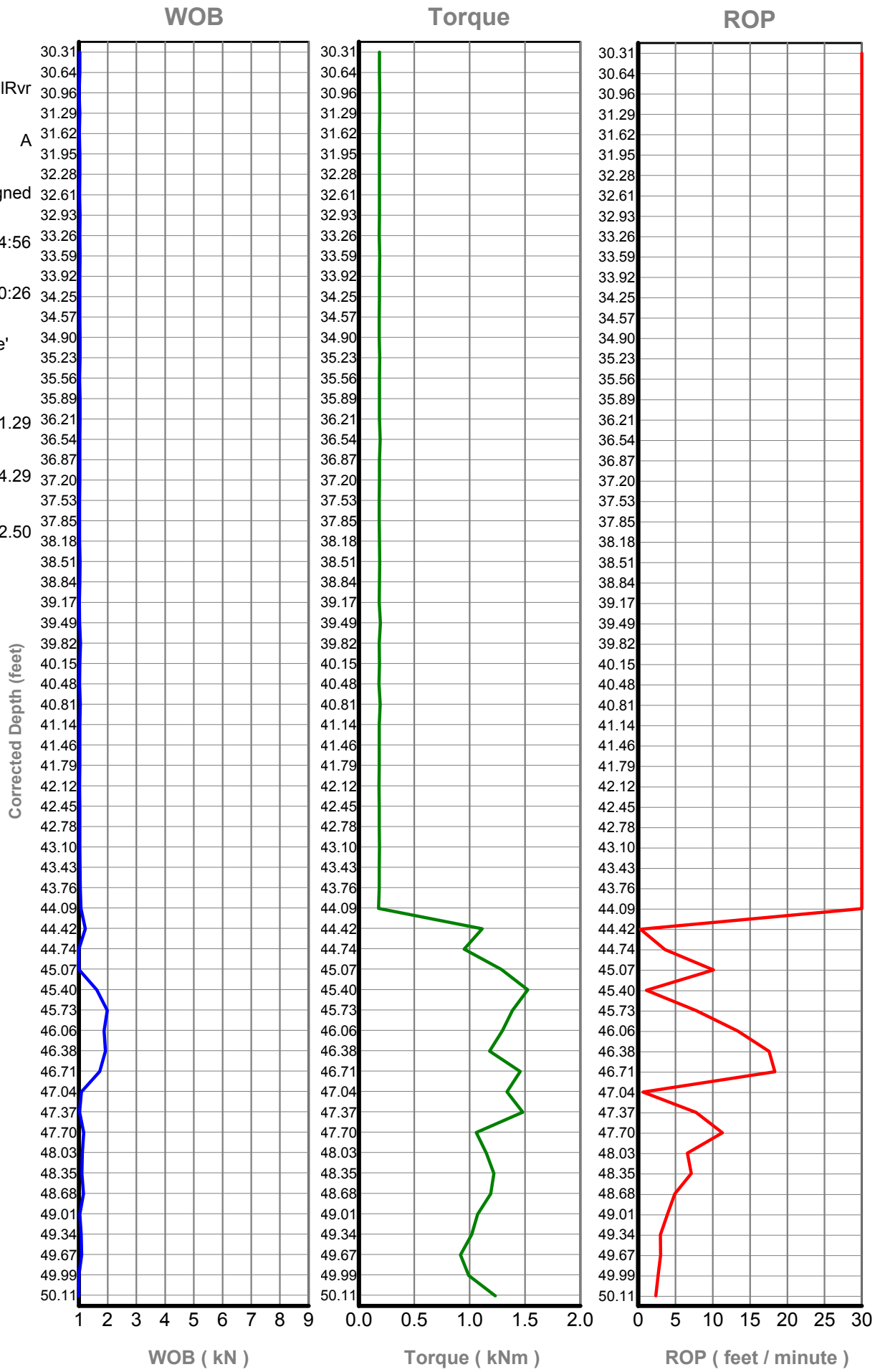
**End Date:**
4/29/2015 2:30:26

**Operator Note:**
'2.5 2.6 b Auto Complete'

**Northing:**
364,031.29

**Easting:**
248,094.29

**Tide (feet):**
2.50



## Hole: I98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:26:31 | 32.81 | 30.31 | 1,218 | 0.29 | 0.37 | 66.6 |
| 4/29/2015 2:26:31 | 33.14 | 30.64 | 1,200 | 0.35 | 0.36 | 65.6 |
| 4/29/2015 2:26:31 | 33.46 | 30.96 | 1,200 | 0.35 | 0.36 | 65.6 |
| 4/29/2015 2:26:31 | 33.79 | 31.29 | 1,190 | 0.29 | 0.35 | 65.1 |
| 4/29/2015 2:26:32 | 34.12 | 31.62 | 1,190 | 0.29 | 0.35 | 65.1 |
| 4/29/2015 2:26:32 | 34.45 | 31.95 | 1,203 | 0.29 | 0.35 | 65.8 |
| 4/29/2015 2:26:33 | 34.78 | 32.28 | 1,206 | 0.28 | 0.36 | 65.9 |
| 4/29/2015 2:26:33 | 35.11 | 32.61 | 1,206 | 0.28 | 0.36 | 65.9 |
| 4/29/2015 2:26:33 | 35.43 | 32.93 | 1,190 | 0.29 | 0.35 | 65.1 |
| 4/29/2015 2:26:34 | 35.76 | 33.26 | 1,190 | 0.29 | 0.35 | 65.1 |
| 4/29/2015 2:26:34 | 36.09 | 33.59 | 1,194 | 0.28 | 0.35 | 65.3 |
| 4/29/2015 2:26:34 | 36.42 | 33.92 | 1,194 | 0.28 | 0.35 | 65.3 |
| 4/29/2015 2:26:34 | 36.75 | 34.25 | 1,197 | 0.29 | 0.36 | 65.4 |
| 4/29/2015 2:26:35 | 37.07 | 34.57 | 1,200 | 0.28 | 0.36 | 65.6 |
| 4/29/2015 2:26:35 | 37.40 | 34.90 | 1,200 | 0.28 | 0.36 | 65.6 |
| 4/29/2015 2:26:35 | 37.73 | 35.23 | 1,194 | 0.28 | 0.36 | 65.3 |
| 4/29/2015 2:26:36 | 38.06 | 35.56 | 1,194 | 0.28 | 0.36 | 65.3 |
| 4/29/2015 2:26:36 | 38.39 | 35.89 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/29/2015 2:26:36 | 38.71 | 36.21 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/29/2015 2:26:36 | 39.04 | 36.54 | 1,180 | 0.28 | 0.36 | 64.5 |
| 4/29/2015 2:26:37 | 39.37 | 36.87 | 1,180 | 0.29 | 0.35 | 64.5 |
| 4/29/2015 2:26:37 | 39.70 | 37.20 | 1,180 | 0.29 | 0.35 | 64.5 |
| 4/29/2015 2:26:37 | 40.03 | 37.53 | 1,195 | 0.24 | 0.36 | 65.3 |
| 4/29/2015 2:26:38 | 40.35 | 37.85 | 1,195 | 0.24 | 0.36 | 65.3 |
| 4/29/2015 2:26:38 | 40.68 | 38.18 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/29/2015 2:26:38 | 41.01 | 38.51 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/29/2015 2:26:38 | 41.34 | 38.84 | 1,191 | 0.29 | 0.36 | 65.1 |
| 4/29/2015 2:26:39 | 41.67 | 39.17 | 1,197 | 0.29 | 0.36 | 65.4 |
| 4/29/2015 2:26:39 | 41.99 | 39.49 | 1,197 | 0.29 | 0.36 | 65.4 |
| 4/29/2015 2:26:39 | 42.32 | 39.82 | 1,213 | 0.28 | 0.37 | 66.3 |
| 4/29/2015 2:26:40 | 42.65 | 40.15 | 1,213 | 0.28 | 0.37 | 66.3 |
| 4/29/2015 2:26:40 | 42.98 | 40.48 | 1,202 | 0.29 | 0.35 | 65.8 |
| 4/29/2015 2:26:40 | 43.31 | 40.81 | 1,202 | 0.29 | 0.35 | 65.8 |
| 4/29/2015 2:26:40 | 43.64 | 41.14 | 1,184 | 0.29 | 0.36 | 64.7 |
| 4/29/2015 2:26:41 | 43.96 | 41.46 | 1,202 | 0.26 | 0.36 | 65.7 |
| 4/29/2015 2:26:41 | 44.29 | 41.79 | 1,202 | 0.26 | 0.36 | 65.7 |
| 4/29/2015 2:26:41 | 44.62 | 42.12 | 1,202 | 0.29 | 0.35 | 65.7 |
| 4/29/2015 2:26:42 | 44.95 | 42.45 | 1,202 | 0.29 | 0.35 | 65.7 |
| 4/29/2015 2:26:42 | 45.28 | 42.78 | 1,199 | 0.29 | 0.37 | 65.6 |
| 4/29/2015 2:26:43 | 45.60 | 43.10 | 1,199 | 0.29 | 0.37 | 65.6 |
| 4/29/2015 2:26:46 | 45.93 | 43.43 | 0 | 3.50 | 0.40 | 0.0 |
| 4/29/2015 2:26:48 | 46.26 | 43.76 | 108 | 4.04 | 0.43 | 5.9 |
| 4/29/2015 2:26:52 | 46.59 | 44.09 | 68 | 3.17 | 0.32 | 3.7 |
| 4/29/2015 2:27:03 | 46.92 | 44.42 | 0 | 5.06 | 0.41 | 0.0 |
| 4/29/2015 2:27:14 | 47.24 | 44.74 | 11 | 5.88 | 0.41 | 0.6 |
| 4/29/2015 2:27:15 | 47.57 | 45.07 | 141 | 2.66 | 0.38 | 7.7 |
| 4/29/2015 2:27:15 | 47.90 | 45.40 | 272 | 3.17 | 0.41 | 14.9 |
| 4/29/2015 2:27:16 | 48.23 | 45.73 | 390 | 4.03 | 0.41 | 21.3 |
| 4/29/2015 2:27:17 | 48.56 | 46.06 | 570 | 4.00 | 0.43 | 31.2 |
| 4/29/2015 2:27:17 | 48.88 | 46.38 | 535 | 3.90 | 0.43 | 29.2 |
| 4/29/2015 2:27:29 | 49.21 | 46.71 | 0 | 3.30 | 0.45 | 0.0 |
| 4/29/2015 2:27:31 | 49.54 | 47.04 | 161 | 3.25 | 0.43 | 8.8 |
| 4/29/2015 2:27:33 | 49.87 | 47.37 | 169 | 3.89 | 0.45 | 9.2 |
| 4/29/2015 2:27:38 | 50.20 | 47.70 | 84 | 2.74 | 0.45 | 4.6 |
| 4/29/2015 2:27:41 | 50.53 | 48.03 | 92 | 3.33 | 0.44 | 5.0 |
| 4/29/2015 2:27:46 | 50.85 | 48.35 | 84 | 3.27 | 0.45 | 4.6 |
| 4/29/2015 2:27:49 | 51.18 | 48.68 | 93 | 3.09 | 0.45 | 5.1 |
| 4/29/2015 2:27:53 | 51.51 | 49.01 | 82 | 3.26 | 0.45 | 4.5 |
| 4/29/2015 2:27:59 | 51.84 | 49.34 | 55 | 3.01 | 0.46 | 3.0 |
| 4/29/2015 2:28:05 | 52.17 | 49.67 | 61 | 2.88 | 0.44 | 3.3 |
| 4/29/2015 2:28:11 | 52.49 | 49.99 | 49 | 3.04 | 0.45 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:28:19 | 52.82 | 50.32 | 43 | 2.74 | 0.45 | 2.4 |
| 4/29/2015 | 2:28:28 | 53.15 | 50.65 | 40 | 2.42 | 0.46 | 2.2 |
| 4/29/2015 | 2:28:36 | 53.48 | 50.98 | 46 | 3.29 | 0.45 | 2.5 |
| 4/29/2015 | 2:28:36 | 53.55 | 51.05 | 58 | 3.45 | 0.43 | 3.2 |

## I98 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:24:58

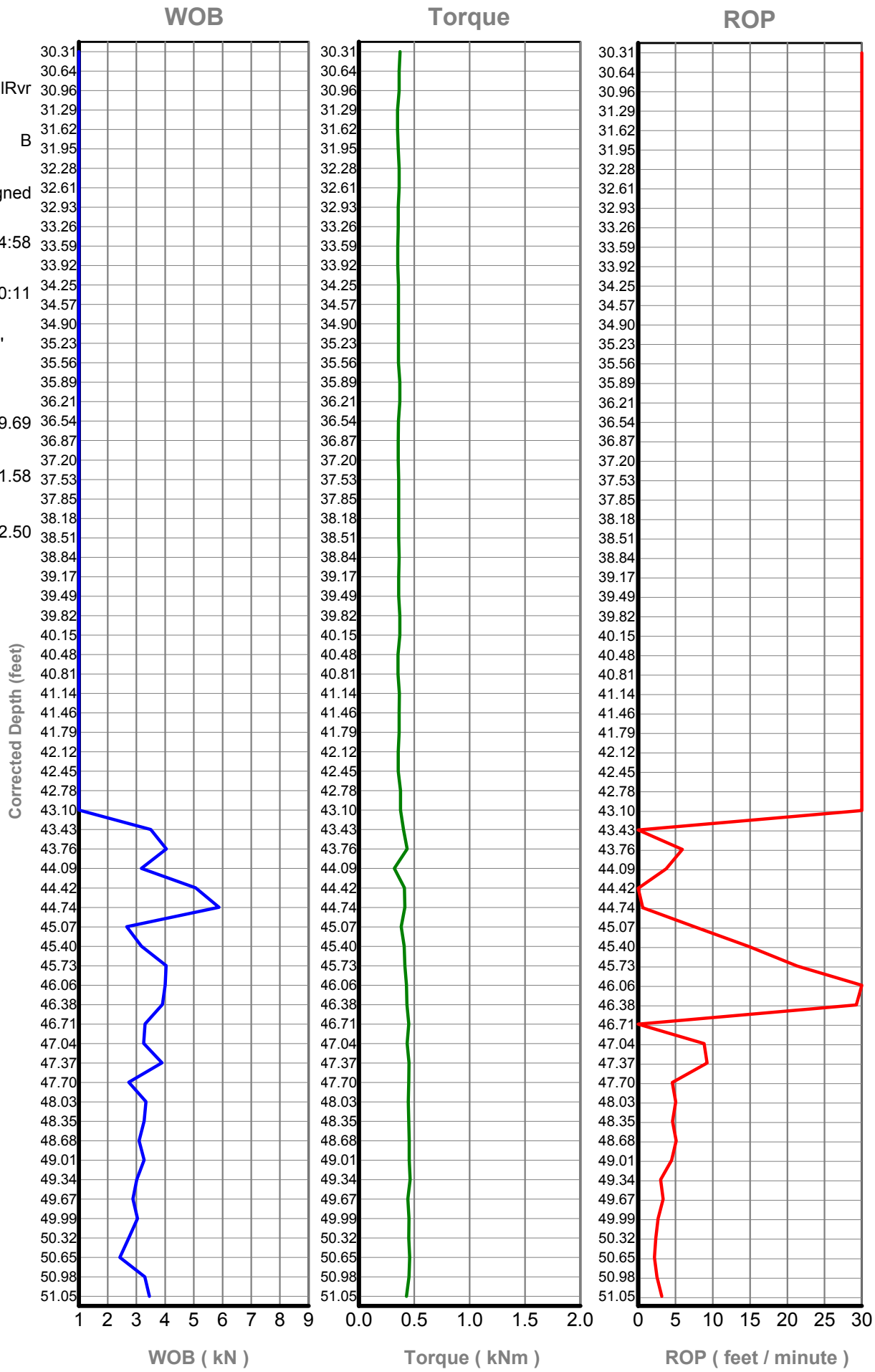
**End Date:**
4/29/2015 2:30:11

**Operator Note:**
'2.5 2.6b Auto Complete'

**Northing:**
364,079.69

**Easting:**
248,151.58

**Tide (feet):**
2.50



## Hole: I99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 2:25:21 | 32.81 | 30.31 | 1,140 | 1.62 | 0.13 | 62.4 |
| 4/29/2015 2:25:21 | 33.14 | 30.64 | 1,140 | 1.62 | 0.13 | 62.4 |
| 4/29/2015 2:25:21 | 33.46 | 30.96 | 1,130 | 1.59 | 0.13 | 61.8 |
| 4/29/2015 2:25:22 | 33.79 | 31.29 | 1,133 | 1.60 | 0.13 | 62.0 |
| 4/29/2015 2:25:22 | 34.12 | 31.62 | 1,133 | 1.60 | 0.13 | 62.0 |
| 4/29/2015 2:25:22 | 34.45 | 31.95 | 1,133 | 1.62 | 0.13 | 62.0 |
| 4/29/2015 2:25:23 | 34.78 | 32.28 | 1,133 | 1.62 | 0.13 | 62.0 |
| 4/29/2015 2:25:23 | 35.11 | 32.61 | 1,130 | 1.62 | 0.13 | 61.8 |
| 4/29/2015 2:25:23 | 35.43 | 32.93 | 1,130 | 1.62 | 0.15 | 61.8 |
| 4/29/2015 2:25:24 | 35.76 | 33.26 | 1,130 | 1.62 | 0.15 | 61.8 |
| 4/29/2015 2:25:24 | 36.09 | 33.59 | 1,125 | 1.61 | 0.13 | 61.5 |
| 4/29/2015 2:25:24 | 36.42 | 33.92 | 1,125 | 1.61 | 0.13 | 61.5 |
| 4/29/2015 2:25:24 | 36.75 | 34.25 | 1,122 | 1.61 | 0.14 | 61.3 |
| 4/29/2015 2:25:25 | 37.07 | 34.57 | 1,129 | 1.63 | 0.13 | 61.7 |
| 4/29/2015 2:25:25 | 37.40 | 34.90 | 1,129 | 1.63 | 0.13 | 61.7 |
| 4/29/2015 2:25:25 | 37.73 | 35.23 | 1,122 | 1.59 | 0.13 | 61.3 |
| 4/29/2015 2:25:26 | 38.06 | 35.56 | 1,122 | 1.59 | 0.13 | 61.3 |
| 4/29/2015 2:25:26 | 38.39 | 35.89 | 1,112 | 1.61 | 0.13 | 60.8 |
| 4/29/2015 2:25:26 | 38.71 | 36.21 | 1,127 | 1.62 | 0.13 | 61.7 |
| 4/29/2015 2:25:27 | 39.04 | 36.54 | 1,127 | 1.62 | 0.13 | 61.7 |
| 4/29/2015 2:25:27 | 39.37 | 36.87 | 1,125 | 1.60 | 0.13 | 61.5 |
| 4/29/2015 2:25:27 | 39.70 | 37.20 | 1,119 | 1.61 | 0.13 | 61.2 |
| 4/29/2015 2:25:28 | 40.03 | 37.53 | 1,119 | 1.61 | 0.13 | 61.2 |
| 4/29/2015 2:25:28 | 40.35 | 37.85 | 1,119 | 1.62 | 0.13 | 61.2 |
| 4/29/2015 2:25:28 | 40.68 | 38.18 | 1,119 | 1.62 | 0.13 | 61.2 |
| 4/29/2015 2:25:28 | 41.01 | 38.51 | 1,122 | 1.62 | 0.13 | 61.3 |
| 4/29/2015 2:25:29 | 41.34 | 38.84 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/29/2015 2:25:29 | 41.67 | 39.17 | 1,116 | 1.59 | 0.13 | 61.0 |
| 4/29/2015 2:25:29 | 41.99 | 39.49 | 1,116 | 1.60 | 0.13 | 61.0 |
| 4/29/2015 2:25:30 | 42.32 | 39.82 | 1,116 | 1.60 | 0.13 | 61.0 |
| 4/29/2015 2:25:30 | 42.65 | 40.15 | 1,112 | 1.62 | 0.13 | 60.8 |
| 4/29/2015 2:25:30 | 42.98 | 40.48 | 1,119 | 1.63 | 0.13 | 61.2 |
| 4/29/2015 2:25:31 | 43.31 | 40.81 | 1,119 | 1.63 | 0.13 | 61.2 |
| 4/29/2015 2:25:31 | 43.64 | 41.14 | 1,116 | 1.62 | 0.14 | 61.0 |
| 4/29/2015 2:25:32 | 43.96 | 41.46 | 1,106 | 1.60 | 0.13 | 60.5 |
| 4/29/2015 2:25:32 | 44.29 | 41.79 | 1,106 | 1.60 | 0.13 | 60.5 |
| 4/29/2015 2:25:32 | 44.62 | 42.12 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 2:25:33 | 44.95 | 42.45 | 1,113 | 1.59 | 0.13 | 60.9 |
| 4/29/2015 2:25:33 | 45.28 | 42.78 | 1,116 | 1.63 | 0.13 | 61.0 |
| 4/29/2015 2:25:33 | 45.60 | 43.10 | 1,113 | 1.62 | 0.13 | 60.9 |
| 4/29/2015 2:25:34 | 45.93 | 43.43 | 1,113 | 1.62 | 0.13 | 60.9 |
| 4/29/2015 2:25:34 | 46.26 | 43.76 | 1,113 | 1.66 | 0.13 | 60.9 |
| 4/29/2015 2:25:53 | 46.59 | 44.09 | 0 | 1.66 | 1.27 | 0.0 |
| 4/29/2015 2:25:58 | 46.92 | 44.42 | 0 | 1.74 | 1.26 | 0.0 |
| 4/29/2015 2:25:59 | 47.24 | 44.74 | 46 | 1.55 | 1.25 | 2.5 |
| 4/29/2015 2:26:06 | 47.57 | 45.07 | 0 | 1.51 | 1.41 | 0.0 |
| 4/29/2015 2:26:07 | 47.90 | 45.40 | 103 | 1.55 | 1.19 | 5.6 |
| 4/29/2015 2:26:08 | 48.23 | 45.73 | 153 | 1.60 | 1.23 | 8.3 |
| 4/29/2015 2:26:09 | 48.56 | 46.06 | 302 | 1.68 | 1.23 | 16.5 |
| 4/29/2015 2:26:17 | 48.88 | 46.38 | 37 | 1.55 | 1.32 | 2.0 |
| 4/29/2015 2:26:18 | 49.21 | 46.71 | 111 | 1.56 | 1.18 | 6.1 |
| 4/29/2015 2:26:19 | 49.54 | 47.04 | 178 | 1.59 | 1.16 | 9.7 |
| 4/29/2015 2:26:21 | 49.87 | 47.37 | 254 | 1.60 | 1.27 | 13.9 |
| 4/29/2015 2:26:53 | 50.20 | 47.70 | 18 | 1.64 | 1.33 | 1.0 |
| 4/29/2015 2:27:10 | 50.53 | 48.03 | 55 | 1.64 | 1.34 | 3.0 |
| 4/29/2015 2:27:18 | 50.85 | 48.35 | 43 | 1.68 | 1.19 | 2.4 |
| 4/29/2015 2:27:24 | 51.18 | 48.68 | 61 | 1.63 | 1.26 | 3.3 |
| 4/29/2015 2:27:32 | 51.51 | 49.01 | 51 | 1.66 | 1.20 | 2.8 |
| 4/29/2015 2:27:37 | 51.84 | 49.34 | 75 | 1.67 | 1.30 | 4.1 |
| 4/29/2015 2:27:44 | 52.17 | 49.67 | 54 | 1.65 | 1.26 | 3.0 |
| 4/29/2015 2:27:50 | 52.49 | 49.99 | 56 | 1.63 | 1.29 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 2:27:52 | 52.65 | 50.15 | 55 | 1.65 | 1.32 | 3.0 |

## I99 - Summary

**Pattern Number:**
Area1_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 2:24:14

**End Date:**
4/29/2015 2:29:01

**Operator Note:**
'2.5 2.6 c Auto Complete'

**Northing:**
364,128.08

**Easting:**
248,208.88

**Tide (feet):**
2.50



## Hole: J1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 17:55:44 | 31.50 | 30.10 | 940 | 1.05 | 0.13 | 51.4 |
| 4/29/2015 17:55:45 | 31.82 | 30.42 | 934 | 1.07 | 0.13 | 51.1 |
| 4/29/2015 17:55:45 | 32.15 | 30.75 | 919 | 1.06 | 0.13 | 50.2 |
| 4/29/2015 17:55:46 | 32.48 | 31.08 | 919 | 1.06 | 0.13 | 50.2 |
| 4/29/2015 17:55:46 | 32.81 | 31.41 | 919 | 1.07 | 0.13 | 50.2 |
| 4/29/2015 17:55:46 | 33.14 | 31.74 | 912 | 1.07 | 0.13 | 49.9 |
| 4/29/2015 17:55:47 | 33.46 | 32.06 | 912 | 1.06 | 0.13 | 49.9 |
| 4/29/2015 17:55:47 | 33.79 | 32.39 | 912 | 1.06 | 0.13 | 49.9 |
| 4/29/2015 17:55:47 | 34.12 | 32.72 | 920 | 1.07 | 0.13 | 50.3 |
| 4/29/2015 17:55:48 | 34.45 | 33.05 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 17:55:48 | 34.78 | 33.38 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 17:55:49 | 35.11 | 33.71 | 926 | 1.06 | 0.13 | 50.6 |
| 4/29/2015 17:55:49 | 35.43 | 34.03 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 17:55:50 | 35.76 | 34.36 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 17:55:50 | 36.09 | 34.69 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 17:55:50 | 36.42 | 35.02 | 936 | 1.07 | 0.13 | 51.2 |
| 4/29/2015 17:55:51 | 36.75 | 35.35 | 915 | 0.92 | 0.13 | 50.0 |
| 4/29/2015 17:55:51 | 37.07 | 35.67 | 915 | 1.06 | 0.13 | 50.0 |
| 4/29/2015 17:55:52 | 37.40 | 36.00 | 915 | 1.06 | 0.13 | 50.0 |
| 4/29/2015 17:55:52 | 37.73 | 36.33 | 910 | 1.05 | 0.13 | 49.7 |
| 4/29/2015 17:55:52 | 38.06 | 36.66 | 910 | 1.06 | 0.13 | 49.7 |
| 4/29/2015 17:55:53 | 38.39 | 36.99 | 914 | 1.07 | 0.13 | 50.0 |
| 4/29/2015 17:55:53 | 38.71 | 37.31 | 914 | 1.07 | 0.13 | 50.0 |
| 4/29/2015 17:55:53 | 39.04 | 37.64 | 918 | 1.05 | 0.13 | 50.2 |
| 4/29/2015 17:55:54 | 39.37 | 37.97 | 907 | 1.08 | 0.13 | 49.6 |
| 4/29/2015 17:55:54 | 39.70 | 38.30 | 925 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 17:55:55 | 40.03 | 38.63 | 925 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 17:55:55 | 40.35 | 38.95 | 922 | 1.05 | 0.13 | 50.4 |
| 4/29/2015 17:55:55 | 40.68 | 39.28 | 915 | 1.08 | 0.13 | 50.0 |
| 4/29/2015 17:55:56 | 41.01 | 39.61 | 915 | 1.08 | 0.13 | 50.0 |
| 4/29/2015 17:55:56 | 41.34 | 39.94 | 928 | 1.07 | 0.13 | 50.7 |
| 4/29/2015 17:55:56 | 41.67 | 40.27 | 928 | 1.07 | 0.13 | 50.7 |
| 4/29/2015 17:55:57 | 41.99 | 40.59 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 17:55:57 | 42.32 | 40.92 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 17:55:57 | 42.65 | 41.25 | 923 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 17:55:58 | 42.98 | 41.58 | 921 | 1.07 | 0.13 | 50.4 |
| 4/29/2015 17:55:58 | 43.31 | 41.91 | 921 | 1.07 | 0.13 | 50.4 |
| 4/29/2015 17:55:59 | 43.64 | 42.24 | 921 | 1.07 | 0.13 | 50.4 |
| 4/29/2015 17:55:59 | 43.96 | 42.56 | 930 | 1.05 | 0.13 | 50.8 |
| 4/29/2015 17:56:00 | 44.29 | 42.89 | 927 | 1.06 | 0.13 | 50.7 |
| 4/29/2015 17:56:00 | 44.62 | 43.22 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 17:56:01 | 44.95 | 43.55 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 17:56:08 | 45.28 | 43.88 | 9 | 1.10 | 0.79 | 0.5 |
| 4/29/2015 17:56:13 | 45.60 | 44.20 | 43 | 1.13 | 0.91 | 2.3 |
| 4/29/2015 17:56:14 | 45.93 | 44.53 | 125 | 1.13 | 0.87 | 6.9 |
| 4/29/2015 17:56:15 | 46.26 | 44.86 | 266 | 1.15 | 0.77 | 14.6 |
| 4/29/2015 17:56:17 | 46.59 | 45.19 | 240 | 1.15 | 1.02 | 13.1 |
| 4/29/2015 17:56:22 | 46.92 | 45.52 | 88 | 1.11 | 1.20 | 4.8 |
| 4/29/2015 17:56:23 | 47.24 | 45.84 | 228 | 1.13 | 1.36 | 12.5 |
| 4/29/2015 17:56:27 | 47.57 | 46.17 | 78 | 1.13 | 1.31 | 4.3 |
| 4/29/2015 17:56:35 | 47.90 | 46.50 | 23 | 1.13 | 1.26 | 1.3 |
| 4/29/2015 17:56:40 | 48.23 | 46.83 | 43 | 1.18 | 0.99 | 2.4 |
| 4/29/2015 17:56:44 | 48.56 | 47.16 | 97 | 1.08 | 1.25 | 5.3 |
| 4/29/2015 17:56:46 | 48.88 | 47.48 | 153 | 1.08 | 1.01 | 8.4 |
| 4/29/2015 17:56:50 | 49.21 | 47.81 | 96 | 1.05 | 1.21 | 5.2 |
| 4/29/2015 17:56:57 | 49.54 | 48.14 | 64 | 1.02 | 1.25 | 3.5 |
| 4/29/2015 17:57:05 | 49.87 | 48.47 | 40 | 1.06 | 1.03 | 2.2 |
| 4/29/2015 17:57:12 | 50.20 | 48.80 | 52 | 1.09 | 1.12 | 2.8 |
| 4/29/2015 17:57:18 | 50.53 | 49.13 | 43 | 1.05 | 1.01 | 2.4 |
| 4/29/2015 17:57:21 | 50.62 | 49.22 | 49 | 0.74 | 1.11 | 2.7 |

## J1 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 17:54:16

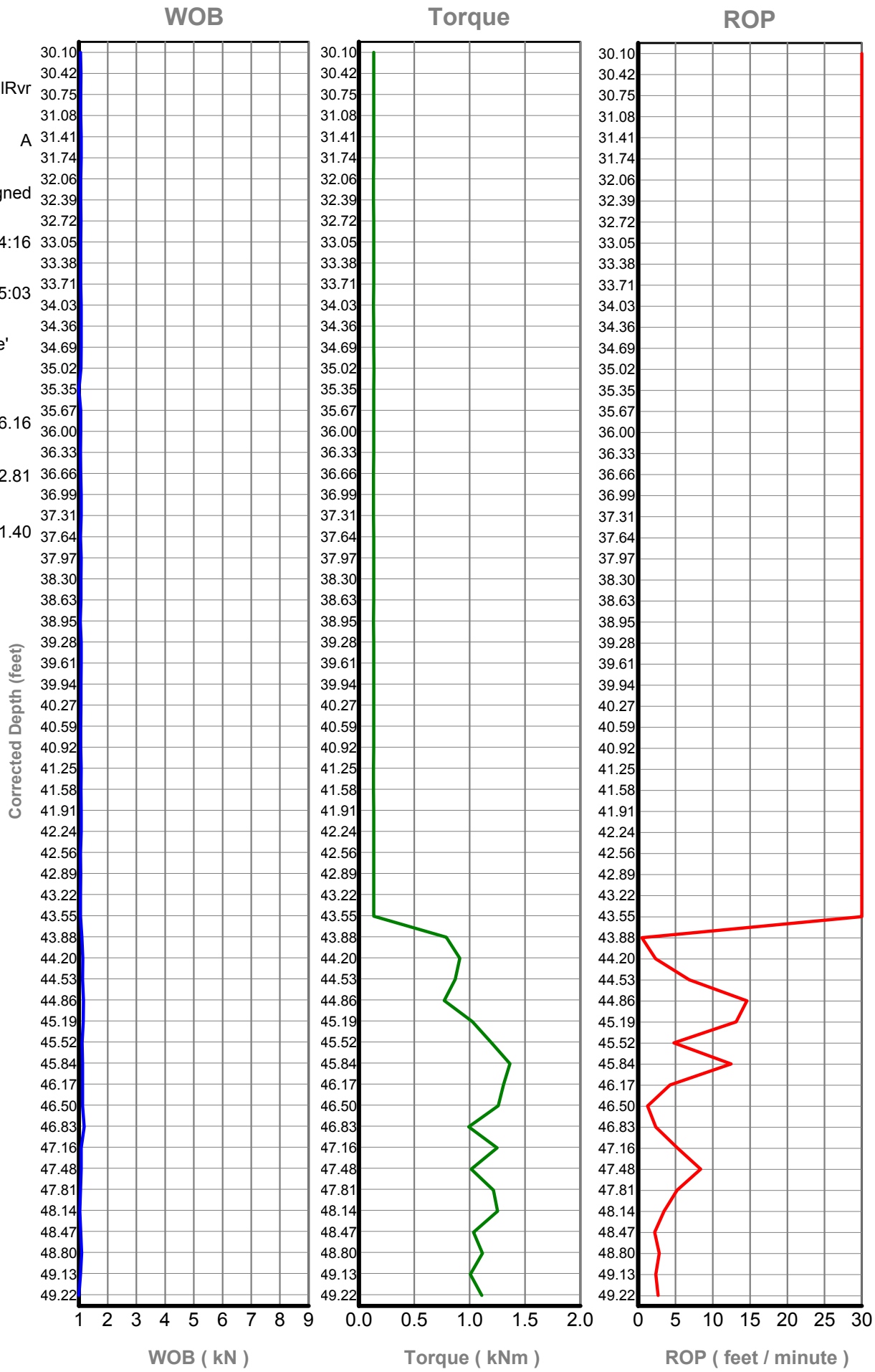
**End Date:**
4/29/2015 18:05:03

**Operator Note:**
'1.4 1.0 a Auto Complete'

**Northing:**
362,476.16

**Easting:**
246,142.81

**Tide (feet):**
1.40



## Hole: J10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 18:18:59 | 32.15 | 30.25 | 802 | 1.05 | 0.17 | 43.9 |
| 4/29/2015 18:19:00 | 32.48 | 30.58 | 802 | 1.06 | 0.17 | 43.9 |
| 4/29/2015 18:19:00 | 32.81 | 30.91 | 802 | 1.06 | 0.17 | 43.9 |
| 4/29/2015 18:19:00 | 33.14 | 31.24 | 799 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 18:19:01 | 33.46 | 31.56 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 18:19:01 | 33.79 | 31.89 | 795 | 1.07 | 0.18 | 43.5 |
| 4/29/2015 18:19:02 | 34.12 | 32.22 | 790 | 1.06 | 0.17 | 43.2 |
| 4/29/2015 18:19:02 | 34.45 | 32.55 | 804 | 1.07 | 0.18 | 44.0 |
| 4/29/2015 18:19:03 | 34.78 | 32.88 | 804 | 1.06 | 0.17 | 44.0 |
| 4/29/2015 18:19:04 | 35.11 | 33.21 | 804 | 1.06 | 0.17 | 44.0 |
| 4/29/2015 18:19:03 | 35.43 | 33.53 | 815 | 1.06 | 0.17 | 44.6 |
| 4/29/2015 18:19:04 | 35.76 | 33.86 | 813 | 1.06 | 0.18 | 44.4 |
| 4/29/2015 18:19:05 | 36.09 | 34.19 | 811 | 1.07 | 0.17 | 44.4 |
| 4/29/2015 18:19:05 | 36.42 | 34.52 | 811 | 1.06 | 0.18 | 44.4 |
| 4/29/2015 18:19:06 | 36.75 | 34.85 | 811 | 1.06 | 0.18 | 44.4 |
| 4/29/2015 18:19:06 | 37.07 | 35.17 | 829 | 1.06 | 0.17 | 45.3 |
| 4/29/2015 18:19:06 | 37.40 | 35.50 | 814 | 1.05 | 0.17 | 44.5 |
| 4/29/2015 18:19:07 | 37.73 | 35.83 | 814 | 1.05 | 0.18 | 44.5 |
| 4/29/2015 18:19:07 | 38.06 | 36.16 | 808 | 1.08 | 0.18 | 44.2 |
| 4/29/2015 18:19:08 | 38.39 | 36.49 | 811 | 1.06 | 0.17 | 44.4 |
| 4/29/2015 18:19:08 | 38.71 | 36.81 | 811 | 1.06 | 0.17 | 44.4 |
| 4/29/2015 18:19:08 | 39.04 | 37.14 | 829 | 1.05 | 0.17 | 45.3 |
| 4/29/2015 18:19:09 | 39.37 | 37.47 | 792 | 1.06 | 0.17 | 43.3 |
| 4/29/2015 18:19:09 | 39.70 | 37.80 | 818 | 1.06 | 0.17 | 44.8 |
| 4/29/2015 18:19:10 | 40.03 | 38.13 | 818 | 1.06 | 0.17 | 44.8 |
| 4/29/2015 18:19:10 | 40.35 | 38.45 | 811 | 1.07 | 0.17 | 44.3 |
| 4/29/2015 18:19:11 | 40.68 | 38.78 | 775 | 1.06 | 0.17 | 42.4 |
| 4/29/2015 18:19:11 | 41.01 | 39.11 | 775 | 1.06 | 0.17 | 42.4 |
| 4/29/2015 18:19:12 | 41.34 | 39.44 | 769 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 18:19:12 | 41.67 | 39.77 | 762 | 1.05 | 0.17 | 41.7 |
| 4/29/2015 18:19:13 | 41.99 | 40.09 | 724 | 1.07 | 0.17 | 39.6 |
| 4/29/2015 18:19:13 | 42.32 | 40.42 | 692 | 1.07 | 0.17 | 37.9 |
| 4/29/2015 18:19:14 | 42.65 | 40.75 | 692 | 1.06 | 0.18 | 37.9 |
| 4/29/2015 18:19:15 | 42.98 | 41.08 | 668 | 1.06 | 0.18 | 36.5 |
| 4/29/2015 18:19:15 | 43.31 | 41.41 | 665 | 1.06 | 0.18 | 36.4 |
| 4/29/2015 18:19:16 | 43.64 | 41.74 | 668 | 1.07 | 0.17 | 36.5 |
| 4/29/2015 18:19:16 | 43.96 | 42.06 | 675 | 1.07 | 0.17 | 36.9 |
| 4/29/2015 18:19:17 | 44.29 | 42.39 | 671 | 1.06 | 0.17 | 36.7 |
| 4/29/2015 18:19:17 | 44.62 | 42.72 | 668 | 1.05 | 0.17 | 36.5 |
| 4/29/2015 18:19:18 | 44.95 | 43.05 | 668 | 1.07 | 0.17 | 36.5 |
| 4/29/2015 18:19:30 | 45.28 | 43.38 | 13 | 0.44 | 0.84 | 0.7 |
| 4/29/2015 18:19:35 | 45.60 | 43.70 | 91 | 0.40 | 1.04 | 5.0 |
| 4/29/2015 18:19:38 | 45.93 | 44.03 | 166 | 1.64 | 1.17 | 9.1 |
| 4/29/2015 18:19:38 | 46.26 | 44.36 | 214 | 0.43 | 0.82 | 11.7 |
| 4/29/2015 18:19:39 | 46.59 | 44.69 | 220 | 1.79 | 1.04 | 12.0 |
| 4/29/2015 18:19:40 | 46.92 | 45.02 | 309 | 1.85 | 0.78 | 16.9 |
| 4/29/2015 18:19:42 | 47.24 | 45.34 | 310 | 1.19 | 0.91 | 16.9 |
| 4/29/2015 18:19:42 | 47.57 | 45.67 | 325 | 1.29 | 0.89 | 17.8 |
| 4/29/2015 18:19:43 | 47.90 | 46.00 | 354 | 1.02 | 0.80 | 19.4 |
| 4/29/2015 18:19:44 | 48.23 | 46.33 | 333 | 1.02 | 0.89 | 18.2 |
| 4/29/2015 18:19:46 | 48.56 | 46.66 | 348 | 1.02 | 0.80 | 19.0 |
| 4/29/2015 18:19:47 | 48.88 | 46.98 | 347 | 1.02 | 0.85 | 19.0 |
| 4/29/2015 18:19:48 | 49.21 | 47.31 | 379 | 1.07 | 1.12 | 20.7 |
| 4/29/2015 18:19:49 | 49.54 | 47.64 | 354 | 1.00 | 1.16 | 19.4 |
| 4/29/2015 18:19:51 | 49.87 | 47.97 | 226 | 0.98 | 1.22 | 12.3 |
| 4/29/2015 18:19:58 | 50.20 | 48.30 | 38 | 1.08 | 1.08 | 2.1 |
| 4/29/2015 18:20:06 | 50.53 | 48.63 | 41 | 0.97 | 0.93 | 2.3 |
| 4/29/2015 18:20:17 | 50.85 | 48.95 | 41 | 1.01 | 0.90 | 2.2 |
| 4/29/2015 18:20:29 | 51.18 | 49.28 | 29 | 1.00 | 0.83 | 1.6 |
| 4/29/2015 18:20:33 | 51.31 | 49.41 | 37 | 1.05 | 1.26 | 2.0 |

## J10 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 18:16:57

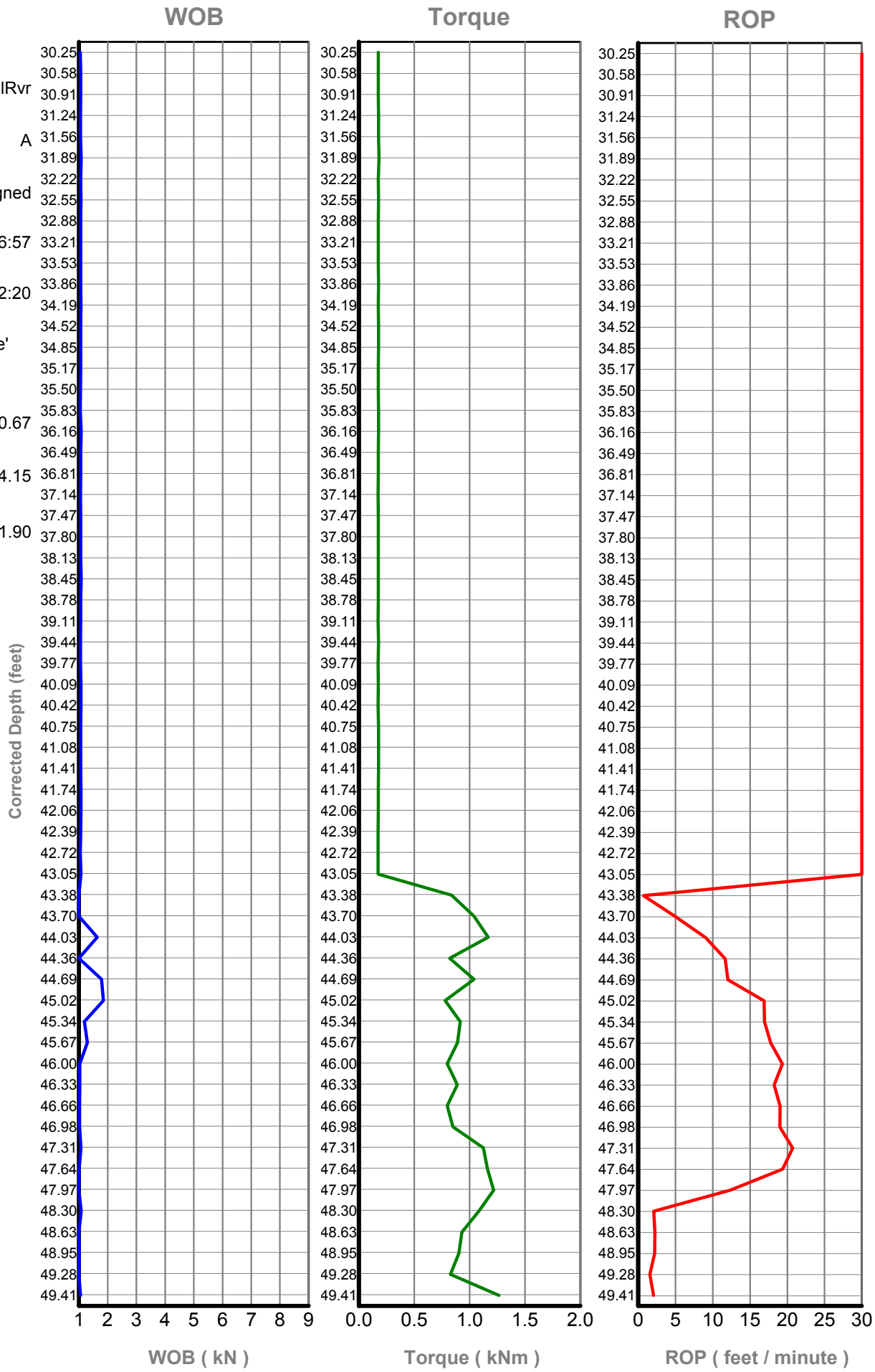
**End Date:**
4/29/2015 18:22:20

**Operator Note:**
'1.9 1.5 a Auto Complete'

**Northing:**
362,410.67

**Easting:**
246,194.15

**Tide (feet):**
1.90



## Hole: J11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 18:18:41 | 32.15 | 30.25 | 1,176 | 0.27 | 0.38 | 64.3 |
| 4/29/2015 18:18:41 | 32.48 | 30.58 | 1,176 | 0.27 | 0.38 | 64.3 |
| 4/29/2015 18:18:41 | 32.81 | 30.91 | 1,162 | 0.27 | 0.38 | 63.6 |
| 4/29/2015 18:18:42 | 33.14 | 31.24 | 1,162 | 0.27 | 0.38 | 63.6 |
| 4/29/2015 18:18:42 | 33.46 | 31.56 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:42 | 33.79 | 31.89 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:43 | 34.12 | 32.22 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:43 | 34.45 | 32.55 | 1,168 | 0.28 | 0.38 | 63.9 |
| 4/29/2015 18:18:43 | 34.78 | 32.88 | 1,168 | 0.28 | 0.38 | 63.9 |
| 4/29/2015 18:18:43 | 35.11 | 33.21 | 1,165 | 0.28 | 0.38 | 63.7 |
| 4/29/2015 18:18:44 | 35.43 | 33.53 | 1,162 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 18:18:44 | 35.76 | 33.86 | 1,162 | 0.28 | 0.37 | 63.5 |
| 4/29/2015 18:18:44 | 36.09 | 34.19 | 1,137 | 0.27 | 0.38 | 62.2 |
| 4/29/2015 18:18:45 | 36.42 | 34.52 | 1,137 | 0.27 | 0.38 | 62.2 |
| 4/29/2015 18:18:45 | 36.75 | 34.85 | 1,137 | 0.27 | 0.37 | 62.2 |
| 4/29/2015 18:18:45 | 37.07 | 35.17 | 1,151 | 0.28 | 0.38 | 62.9 |
| 4/29/2015 18:18:46 | 37.40 | 35.50 | 1,151 | 0.28 | 0.38 | 62.9 |
| 4/29/2015 18:18:46 | 37.73 | 35.83 | 1,152 | 0.27 | 0.36 | 63.0 |
| 4/29/2015 18:18:46 | 38.06 | 36.16 | 1,152 | 0.27 | 0.36 | 63.0 |
| 4/29/2015 18:18:46 | 38.39 | 36.49 | 1,142 | 0.27 | 0.37 | 62.5 |
| 4/29/2015 18:18:47 | 38.71 | 36.81 | 1,148 | 0.28 | 0.38 | 62.8 |
| 4/29/2015 18:18:47 | 39.04 | 37.14 | 1,148 | 0.28 | 0.38 | 62.8 |
| 4/29/2015 18:18:47 | 39.37 | 37.47 | 1,173 | 0.28 | 0.38 | 64.2 |
| 4/29/2015 18:18:48 | 39.70 | 37.80 | 1,173 | 0.28 | 0.38 | 64.2 |
| 4/29/2015 18:18:48 | 40.03 | 38.13 | 1,162 | 0.28 | 0.38 | 63.5 |
| 4/29/2015 18:18:48 | 40.35 | 38.45 | 1,162 | 0.28 | 0.38 | 63.5 |
| 4/29/2015 18:18:48 | 40.68 | 38.78 | 1,155 | 0.27 | 0.37 | 63.2 |
| 4/29/2015 18:18:49 | 41.01 | 39.11 | 1,168 | 0.27 | 0.38 | 63.9 |
| 4/29/2015 18:18:50 | 41.34 | 39.44 | 1,168 | 0.27 | 0.38 | 63.9 |
| 4/29/2015 18:18:50 | 41.67 | 39.77 | 1,159 | 0.28 | 0.38 | 63.4 |
| 4/29/2015 18:18:50 | 41.99 | 40.09 | 1,159 | 0.28 | 0.38 | 63.4 |
| 4/29/2015 18:18:50 | 42.32 | 40.42 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:51 | 42.65 | 40.75 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:51 | 42.98 | 41.08 | 1,159 | 0.28 | 0.37 | 63.4 |
| 4/29/2015 18:18:51 | 43.31 | 41.41 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/29/2015 18:18:52 | 43.64 | 41.74 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/29/2015 18:18:52 | 43.96 | 42.06 | 1,162 | 0.29 | 0.36 | 63.5 |
| 4/29/2015 18:18:52 | 44.29 | 42.39 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 18:18:53 | 44.62 | 42.72 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/29/2015 18:18:53 | 44.95 | 43.05 | 1,158 | 0.29 | 0.36 | 63.3 |
| 4/29/2015 18:18:53 | 45.28 | 43.38 | 1,158 | 0.29 | 0.36 | 63.3 |
| 4/29/2015 18:18:53 | 45.60 | 43.70 | 1,165 | 0.29 | 0.38 | 63.7 |
| 4/29/2015 18:18:54 | 45.93 | 44.03 | 1,162 | 0.29 | 0.41 | 63.6 |
| 4/29/2015 18:18:54 | 46.26 | 44.36 | 1,162 | 0.29 | 0.41 | 63.6 |
| 4/29/2015 18:19:11 | 46.59 | 44.69 | 41 | 3.73 | 0.45 | 2.3 |
| 4/29/2015 18:19:11 | 46.92 | 45.02 | 121 | 3.44 | 0.43 | 6.6 |
| 4/29/2015 18:19:15 | 47.24 | 45.34 | 24 | 2.93 | 0.42 | 1.3 |
| 4/29/2015 18:19:16 | 47.57 | 45.67 | 192 | 2.15 | 0.42 | 10.5 |
| 4/29/2015 18:19:16 | 47.90 | 46.00 | 316 | 2.72 | 0.44 | 17.3 |
| 4/29/2015 18:19:22 | 48.23 | 46.33 | 76 | 3.73 | 0.46 | 4.1 |
| 4/29/2015 18:19:25 | 48.56 | 46.66 | 114 | 3.04 | 0.46 | 6.2 |
| 4/29/2015 18:19:27 | 48.88 | 46.98 | 183 | 2.57 | 0.43 | 10.0 |
| 4/29/2015 18:19:27 | 49.21 | 47.31 | 280 | 2.82 | 0.42 | 15.3 |
| 4/29/2015 18:20:14 | 49.54 | 47.64 | 72 | 3.03 | 0.46 | 3.9 |
| 4/29/2015 18:20:15 | 49.87 | 47.97 | 199 | 3.69 | 0.45 | 10.9 |
| 4/29/2015 18:20:15 | 50.20 | 48.30 | 251 | 2.37 | 0.44 | 13.7 |
| 4/29/2015 18:20:20 | 50.53 | 48.63 | 67 | 2.36 | 0.44 | 3.7 |
| 4/29/2015 18:20:25 | 50.85 | 48.95 | 0 | 5.41 | 0.48 | 0.0 |
| 4/29/2015 18:20:26 | 51.18 | 49.28 | 97 | 5.14 | 0.46 | 5.3 |
| 4/29/2015 18:20:31 | 51.51 | 49.61 | 58 | 3.68 | 0.46 | 3.2 |
| 4/29/2015 18:20:35 | 51.84 | 49.94 | 78 | 2.57 | 0.47 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 18:20:42 | 52.17 | 50.27 | 52 | 2.80 | 0.46 | 2.8 |
| 4/29/2015 | 18:20:48 | 52.49 | 50.59 | 59 | 2.73 | 0.46 | 3.2 |
| 4/29/2015 | 18:20:54 | 52.82 | 50.92 | 61 | 2.53 | 0.46 | 3.3 |
| 4/29/2015 | 18:21:00 | 53.15 | 51.25 | 58 | 3.07 | 0.46 | 3.2 |
| 4/29/2015 | 18:21:00 | 53.20 | 51.30 | 64 | 3.52 | 0.47 | 3.5 |

## J11 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 18:16:06

**End Date:**
4/29/2015 18:22:00

**Operator Note:**
'1.9 1.5 b Rock'

**Northing:**
362,458.35

**Easting:**
246,252.34

**Tide (feet):**
1.90



## Hole: J12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 18:18:23 | 32.15 | 30.25 | 1,252 | 1.14 | 0.29 | 68.5 |
| 4/29/2015 18:18:23 | 32.48 | 30.58 | 1,252 | 1.14 | 0.29 | 68.5 |
| 4/29/2015 18:18:23 | 32.81 | 30.91 | 1,238 | 1.14 | 0.29 | 67.7 |
| 4/29/2015 18:18:24 | 33.14 | 31.24 | 1,238 | 1.14 | 0.29 | 67.7 |
| 4/29/2015 18:18:24 | 33.46 | 31.56 | 1,236 | 1.14 | 0.29 | 67.6 |
| 4/29/2015 18:18:24 | 33.79 | 31.89 | 1,236 | 1.14 | 0.29 | 67.6 |
| 4/29/2015 18:18:24 | 34.12 | 32.22 | 1,226 | 1.14 | 0.29 | 67.0 |
| 4/29/2015 18:18:25 | 34.45 | 32.55 | 1,226 | 1.14 | 0.29 | 67.0 |
| 4/29/2015 18:18:25 | 34.78 | 32.88 | 1,233 | 1.14 | 0.29 | 67.4 |
| 4/29/2015 18:18:25 | 35.11 | 33.21 | 1,223 | 1.14 | 0.29 | 66.9 |
| 4/29/2015 18:18:26 | 35.43 | 33.53 | 1,223 | 1.14 | 0.29 | 66.9 |
| 4/29/2015 18:18:26 | 35.76 | 33.86 | 1,233 | 1.14 | 0.29 | 67.4 |
| 4/29/2015 18:18:26 | 36.09 | 34.19 | 1,233 | 1.14 | 0.29 | 67.4 |
| 4/29/2015 18:18:26 | 36.42 | 34.52 | 1,230 | 1.14 | 0.29 | 67.3 |
| 4/29/2015 18:18:27 | 36.75 | 34.85 | 1,230 | 1.14 | 0.29 | 67.3 |
| 4/29/2015 18:18:27 | 37.07 | 35.17 | 1,217 | 1.14 | 0.29 | 66.5 |
| 4/29/2015 18:18:27 | 37.40 | 35.50 | 1,217 | 1.14 | 0.29 | 66.5 |
| 4/29/2015 18:18:28 | 37.73 | 35.83 | 1,217 | 1.14 | 0.29 | 66.5 |
| 4/29/2015 18:18:28 | 38.06 | 36.16 | 1,219 | 1.14 | 0.29 | 66.7 |
| 4/29/2015 18:18:28 | 38.39 | 36.49 | 1,219 | 1.14 | 0.29 | 66.7 |
| 4/29/2015 18:18:28 | 38.71 | 36.81 | 1,226 | 1.14 | 0.29 | 67.1 |
| 4/29/2015 18:18:29 | 39.04 | 37.14 | 1,226 | 1.14 | 0.29 | 67.1 |
| 4/29/2015 18:18:29 | 39.37 | 37.47 | 1,216 | 1.14 | 0.29 | 66.5 |
| 4/29/2015 18:18:29 | 39.70 | 37.80 | 1,216 | 1.14 | 0.29 | 66.5 |
| 4/29/2015 18:18:29 | 40.03 | 38.13 | 1,203 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 18:18:30 | 40.35 | 38.45 | 1,210 | 1.14 | 0.29 | 66.2 |
| 4/29/2015 18:18:30 | 40.68 | 38.78 | 1,210 | 1.14 | 0.29 | 66.2 |
| 4/29/2015 18:18:30 | 41.01 | 39.11 | 1,210 | 1.14 | 0.29 | 66.2 |
| 4/29/2015 18:18:31 | 41.34 | 39.44 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 18:18:32 | 41.67 | 39.77 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 18:18:31 | 41.99 | 40.09 | 1,135 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 18:18:32 | 42.32 | 40.42 | 1,135 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 18:18:32 | 42.65 | 40.75 | 1,135 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 18:18:33 | 42.98 | 41.08 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 18:18:33 | 43.31 | 41.41 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/29/2015 18:18:34 | 43.64 | 41.74 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/29/2015 18:18:34 | 43.96 | 42.06 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/29/2015 18:18:34 | 44.29 | 42.39 | 967 | 1.14 | 0.29 | 52.9 |
| 4/29/2015 18:18:45 | 44.62 | 42.72 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 18:18:46 | 44.95 | 43.05 | 134 | 1.14 | 0.29 | 7.3 |
| 4/29/2015 18:18:47 | 45.28 | 43.38 | 225 | 1.14 | 0.29 | 12.3 |
| 4/29/2015 18:18:47 | 45.60 | 43.70 | 333 | 1.14 | 0.29 | 18.2 |
| 4/29/2015 18:18:48 | 45.93 | 44.03 | 453 | 1.14 | 0.29 | 24.8 |
| 4/29/2015 18:18:49 | 46.26 | 44.36 | 523 | 1.14 | 0.29 | 28.6 |
| 4/29/2015 18:18:49 | 46.59 | 44.69 | 577 | 1.14 | 0.29 | 31.6 |
| 4/29/2015 18:19:25 | 46.92 | 45.02 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 18:19:26 | 47.24 | 45.34 | 143 | 1.14 | 0.29 | 7.8 |
| 4/29/2015 18:19:27 | 47.57 | 45.67 | 249 | 1.14 | 0.29 | 13.6 |
| 4/29/2015 18:19:28 | 47.90 | 46.00 | 414 | 1.14 | 0.29 | 22.6 |
| 4/29/2015 18:19:29 | 48.23 | 46.33 | 410 | 1.14 | 0.29 | 22.4 |
| 4/29/2015 18:21:09 | 48.56 | 46.66 | 104 | 1.14 | 0.29 | 5.7 |
| 4/29/2015 18:22:24 | 48.88 | 46.98 | 81 | 1.14 | 0.29 | 4.4 |
| 4/29/2015 18:23:06 | 49.21 | 47.31 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 18:23:14 | 49.54 | 47.64 | 54 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 18:23:15 | 49.87 | 47.97 | 235 | 1.14 | 0.29 | 12.8 |
| 4/29/2015 18:23:16 | 50.20 | 48.30 | 360 | 1.14 | 0.29 | 19.7 |
| 4/29/2015 18:25:26 | 50.53 | 48.63 | 3 | 1.14 | 0.29 | 0.2 |
| 4/29/2015 18:25:30 | 50.85 | 48.95 | 92 | 1.14 | 0.29 | 5.0 |
| 4/29/2015 18:27:20 | 51.18 | 49.28 | 96 | 1.14 | 0.29 | 5.2 |
| 4/29/2015 18:28:45 | 51.51 | 49.61 | 100 | 1.14 | 0.29 | 5.5 |
| 4/29/2015 18:29:28 | 51.84 | 49.94 | 59 | 1.14 | 0.29 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 18:29:32 | 52.17 | 50.27 | 73 | 1.14 | 0.29 | 4.0 |
| 4/29/2015 | 18:29:37 | 52.49 | 50.59 | 83 | 1.14 | 0.29 | 4.5 |
| 4/29/2015 | 18:29:41 | 52.82 | 50.92 | 88 | 1.14 | 0.29 | 4.8 |
| 4/29/2015 | 18:29:44 | 53.15 | 51.25 | 95 | 1.14 | 0.29 | 5.2 |
| 4/29/2015 | 18:29:47 | 53.31 | 51.41 | 90 | 1.14 | 0.29 | 4.9 |

## J12 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 18:17:15

**End Date:**
4/29/2015 18:31:23

**Operator Note:**
'1.9 1.5 c Auto Complete'

**Northing:**
362,506.33

**Easting:**
246,310.11

**Tide (feet):**
1.90



## Hole: J13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:09:05 | 35.43 | 30.13 | 841 | 1.24 | 0.17 | 46.0 |
| 4/29/2015 8:09:05 | 35.76 | 30.46 | 838 | 1.24 | 0.17 | 45.8 |
| 4/29/2015 8:09:06 | 36.09 | 30.79 | 833 | 1.21 | 0.17 | 45.6 |
| 4/29/2015 8:09:06 | 36.42 | 31.12 | 833 | 1.21 | 0.17 | 45.6 |
| 4/29/2015 8:09:06 | 36.75 | 31.45 | 841 | 1.23 | 0.17 | 46.0 |
| 4/29/2015 8:09:07 | 37.07 | 31.77 | 838 | 1.21 | 0.17 | 45.8 |
| 4/29/2015 8:09:08 | 37.40 | 32.10 | 838 | 1.21 | 0.17 | 45.8 |
| 4/29/2015 8:09:08 | 37.73 | 32.43 | 830 | 1.23 | 0.17 | 45.4 |
| 4/29/2015 8:09:09 | 38.06 | 32.76 | 830 | 1.23 | 0.17 | 45.4 |
| 4/29/2015 8:09:09 | 38.39 | 33.09 | 830 | 1.24 | 0.17 | 45.4 |
| 4/29/2015 8:09:09 | 38.71 | 33.41 | 842 | 1.21 | 0.17 | 46.1 |
| 4/29/2015 8:09:10 | 39.04 | 33.74 | 834 | 1.22 | 0.17 | 45.6 |
| 4/29/2015 8:09:10 | 39.37 | 34.07 | 834 | 1.22 | 0.17 | 45.6 |
| 4/29/2015 8:09:11 | 39.70 | 34.40 | 837 | 1.23 | 0.17 | 45.8 |
| 4/29/2015 8:09:11 | 40.03 | 34.73 | 837 | 1.23 | 0.17 | 45.8 |
| 4/29/2015 8:09:11 | 40.35 | 35.05 | 835 | 1.22 | 0.17 | 45.6 |
| 4/29/2015 8:09:12 | 40.68 | 35.38 | 835 | 1.23 | 0.17 | 45.6 |
| 4/29/2015 8:09:12 | 41.01 | 35.71 | 832 | 1.23 | 0.17 | 45.5 |
| 4/29/2015 8:09:13 | 41.34 | 36.04 | 835 | 1.24 | 0.17 | 45.6 |
| 4/29/2015 8:09:13 | 41.67 | 36.37 | 835 | 1.24 | 0.17 | 45.6 |
| 4/29/2015 8:09:13 | 41.99 | 36.69 | 836 | 1.21 | 0.17 | 45.7 |
| 4/29/2015 8:09:14 | 42.32 | 37.02 | 829 | 1.22 | 0.17 | 45.3 |
| 4/29/2015 8:09:14 | 42.65 | 37.35 | 842 | 1.24 | 0.17 | 46.1 |
| 4/29/2015 8:09:15 | 42.98 | 37.68 | 841 | 1.22 | 0.17 | 46.0 |
| 4/29/2015 8:09:15 | 43.31 | 38.01 | 835 | 1.21 | 0.17 | 45.7 |
| 4/29/2015 8:09:16 | 43.64 | 38.34 | 835 | 1.21 | 0.17 | 45.7 |
| 4/29/2015 8:09:16 | 43.96 | 38.66 | 838 | 1.23 | 0.17 | 45.8 |
| 4/29/2015 8:09:16 | 44.29 | 38.99 | 836 | 1.23 | 0.17 | 45.7 |
| 4/29/2015 8:09:17 | 44.62 | 39.32 | 843 | 1.23 | 0.17 | 46.1 |
| 4/29/2015 8:09:18 | 44.95 | 39.65 | 833 | 1.21 | 0.17 | 45.5 |
| 4/29/2015 8:09:18 | 45.28 | 39.98 | 840 | 1.23 | 0.17 | 46.0 |
| 4/29/2015 8:09:19 | 45.60 | 40.30 | 840 | 1.23 | 0.17 | 46.0 |
| 4/29/2015 8:09:19 | 45.93 | 40.63 | 833 | 1.21 | 0.17 | 45.5 |
| 4/29/2015 8:09:19 | 46.26 | 40.96 | 836 | 1.24 | 0.17 | 45.7 |
| 4/29/2015 8:09:20 | 46.59 | 41.29 | 825 | 1.21 | 0.17 | 45.1 |
| 4/29/2015 8:09:20 | 46.92 | 41.62 | 830 | 1.20 | 0.17 | 45.4 |
| 4/29/2015 8:09:21 | 47.24 | 41.94 | 830 | 1.20 | 0.17 | 45.4 |
| 4/29/2015 8:09:21 | 47.57 | 42.27 | 822 | 1.22 | 0.17 | 44.9 |
| 4/29/2015 8:09:21 | 47.90 | 42.60 | 833 | 1.24 | 0.17 | 45.5 |
| 4/29/2015 8:09:22 | 48.23 | 42.93 | 830 | 1.23 | 0.17 | 45.4 |
| 4/29/2015 8:09:22 | 48.56 | 43.26 | 834 | 1.39 | 0.17 | 45.6 |
| 4/29/2015 8:09:44 | 48.88 | 43.58 | 0 | 1.42 | 1.17 | 0.0 |
| 4/29/2015 8:09:45 | 49.21 | 43.91 | 110 | 1.15 | 0.76 | 6.0 |
| 4/29/2015 8:09:48 | 49.54 | 44.24 | 223 | 1.17 | 0.97 | 12.2 |
| 4/29/2015 8:09:49 | 49.87 | 44.57 | 256 | 1.17 | 1.03 | 14.0 |
| 4/29/2015 8:09:50 | 50.20 | 44.90 | 309 | 1.19 | 1.27 | 16.9 |
| 4/29/2015 8:09:51 | 50.53 | 45.23 | 300 | 1.18 | 1.24 | 16.4 |
| 4/29/2015 8:09:52 | 50.85 | 45.55 | 304 | 1.21 | 1.06 | 16.6 |
| 4/29/2015 8:09:53 | 51.18 | 45.88 | 298 | 1.15 | 1.07 | 16.3 |
| 4/29/2015 8:09:54 | 51.51 | 46.21 | 321 | 1.13 | 0.98 | 17.5 |
| 4/29/2015 8:09:55 | 51.84 | 46.54 | 344 | 1.16 | 1.20 | 18.8 |
| 4/29/2015 8:09:56 | 52.17 | 46.87 | 351 | 1.14 | 1.02 | 19.2 |
| 4/29/2015 8:09:59 | 52.49 | 47.19 | 180 | 1.17 | 1.68 | 9.9 |
| 4/29/2015 8:10:00 | 52.82 | 47.52 | 181 | 1.19 | 1.20 | 9.9 |
| 4/29/2015 8:10:01 | 53.15 | 47.85 | 262 | 1.12 | 1.18 | 14.3 |
| 4/29/2015 8:10:02 | 53.48 | 48.18 | 316 | 1.15 | 1.02 | 17.3 |
| 4/29/2015 8:10:03 | 53.81 | 48.51 | 395 | 1.16 | 1.11 | 21.6 |
| 4/29/2015 8:10:04 | 54.13 | 48.83 | 379 | 1.17 | 1.16 | 20.7 |
| 4/29/2015 8:10:05 | 54.46 | 49.16 | 283 | 1.17 | 1.29 | 15.5 |
| 4/29/2015 8:10:07 | 54.79 | 49.49 | 198 | 1.20 | 1.53 | 10.8 |
| 4/29/2015 8:10:10 | 55.12 | 49.82 | 145 | 1.19 | 1.33 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:10:13 | 55.45 | 50.15 | 114 | 1.20 | 1.32 | 6.3 |
| 4/29/2015 | 8:10:17 | 55.77 | 50.47 | 97 | 1.17 | 1.25 | 5.3 |
| 4/29/2015 | 8:10:22 | 56.10 | 50.80 | 84 | 1.13 | 1.01 | 4.6 |
| 4/29/2015 | 8:10:24 | 56.43 | 51.13 | 114 | 1.14 | 1.16 | 6.2 |
| 4/29/2015 | 8:10:26 | 56.76 | 51.46 | 142 | 1.20 | 1.26 | 7.7 |
| 4/29/2015 | 8:10:29 | 57.09 | 51.79 | 144 | 1.11 | 1.06 | 7.9 |
| 4/29/2015 | 8:10:32 | 57.41 | 52.11 | 130 | 1.14 | 1.21 | 7.1 |
| 4/29/2015 | 8:10:34 | 57.74 | 52.44 | 139 | 1.02 | 1.18 | 7.6 |
| 4/29/2015 | 8:10:37 | 58.07 | 52.77 | 143 | 1.17 | 1.19 | 7.8 |
| 4/29/2015 | 8:10:39 | 58.40 | 53.10 | 135 | 1.18 | 1.17 | 7.4 |
| 4/29/2015 | 8:10:43 | 58.73 | 53.43 | 101 | 1.12 | 1.07 | 5.5 |
| 4/29/2015 | 8:10:46 | 59.06 | 53.76 | 98 | 1.17 | 1.16 | 5.4 |
| 4/29/2015 | 8:10:50 | 59.38 | 54.08 | 87 | 1.15 | 1.11 | 4.8 |
| 4/29/2015 | 8:10:55 | 59.71 | 54.41 | 83 | 1.13 | 1.13 | 4.6 |
| 4/29/2015 | 8:10:59 | 60.04 | 54.74 | 90 | 1.10 | 1.13 | 4.9 |
| 4/29/2015 | 8:10:59 | 60.08 | 54.78 | 86 | 0.85 | 1.23 | 4.7 |

## J13 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:07:11

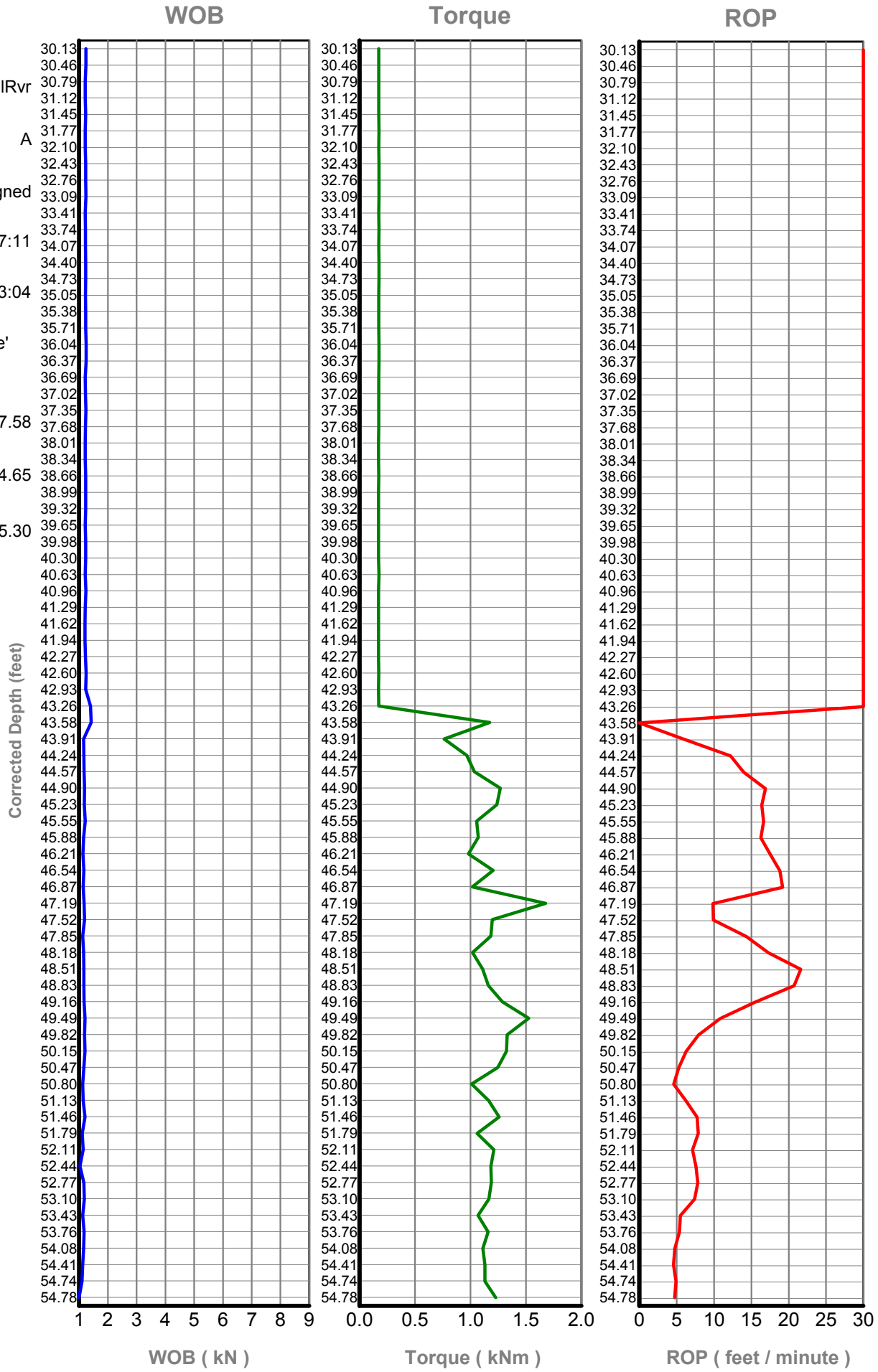
**End Date:**
4/29/2015 8:13:04

**Operator Note:**
'5.3 5.1 a Auto Complete'

**Northing:**
362,557.58

**Easting:**
246,374.65

**Tide (feet):**
5.30



## Hole: J14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:07:11 | 35.43 | 30.13 | 1,062 | 0.33 | 0.39 | 58.1 |
| 4/29/2015 8:07:12 | 35.76 | 30.46 | 1,062 | 0.33 | 0.39 | 58.1 |
| 4/29/2015 8:07:12 | 36.09 | 30.79 | 1,062 | 0.33 | 0.39 | 58.1 |
| 4/29/2015 8:07:12 | 36.42 | 31.12 | 1,060 | 0.35 | 0.39 | 58.0 |
| 4/29/2015 8:07:13 | 36.75 | 31.45 | 1,060 | 0.35 | 0.39 | 58.0 |
| 4/29/2015 8:07:13 | 37.07 | 31.77 | 1,055 | 0.35 | 0.39 | 57.7 |
| 4/29/2015 8:07:13 | 37.40 | 32.10 | 1,063 | 0.29 | 0.39 | 58.2 |
| 4/29/2015 8:07:14 | 37.73 | 32.43 | 1,063 | 0.29 | 0.39 | 58.2 |
| 4/29/2015 8:07:14 | 38.06 | 32.76 | 1,066 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 8:07:14 | 38.39 | 33.09 | 1,066 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 8:07:15 | 38.71 | 33.41 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/29/2015 8:07:15 | 39.04 | 33.74 | 1,069 | 0.32 | 0.38 | 58.5 |
| 4/29/2015 8:07:16 | 39.37 | 34.07 | 1,069 | 0.32 | 0.38 | 58.5 |
| 4/29/2015 8:07:16 | 39.70 | 34.40 | 1,069 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 8:07:16 | 40.03 | 34.73 | 1,086 | 0.33 | 0.39 | 59.4 |
| 4/29/2015 8:07:17 | 40.35 | 35.05 | 1,086 | 0.33 | 0.39 | 59.4 |
| 4/29/2015 8:07:17 | 40.68 | 35.38 | 1,052 | 0.33 | 0.39 | 57.5 |
| 4/29/2015 8:07:17 | 41.01 | 35.71 | 1,052 | 0.33 | 0.39 | 57.5 |
| 4/29/2015 8:07:18 | 41.34 | 36.04 | 1,052 | 0.33 | 0.39 | 57.5 |
| 4/29/2015 8:07:18 | 41.67 | 36.37 | 1,070 | 0.32 | 0.39 | 58.5 |
| 4/29/2015 8:07:18 | 41.99 | 36.69 | 1,070 | 0.32 | 0.39 | 58.5 |
| 4/29/2015 8:07:18 | 42.32 | 37.02 | 1,073 | 0.33 | 0.38 | 58.7 |
| 4/29/2015 8:07:19 | 42.65 | 37.35 | 1,082 | 0.33 | 0.38 | 59.2 |
| 4/29/2015 8:07:19 | 42.98 | 37.68 | 1,082 | 0.33 | 0.38 | 59.2 |
| 4/29/2015 8:07:19 | 43.31 | 38.01 | 1,071 | 0.32 | 0.38 | 58.6 |
| 4/29/2015 8:07:20 | 43.64 | 38.34 | 1,099 | 0.32 | 0.38 | 60.1 |
| 4/29/2015 8:07:20 | 43.96 | 38.66 | 1,099 | 0.32 | 0.38 | 60.1 |
| 4/29/2015 8:07:20 | 44.29 | 38.99 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/29/2015 8:07:21 | 44.62 | 39.32 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/29/2015 8:07:21 | 44.95 | 39.65 | 1,087 | 0.32 | 0.47 | 59.4 |
| 4/29/2015 8:07:21 | 45.28 | 39.98 | 1,075 | 0.32 | 0.39 | 58.8 |
| 4/29/2015 8:07:22 | 45.60 | 40.30 | 1,075 | 0.32 | 0.39 | 58.8 |
| 4/29/2015 8:07:22 | 45.93 | 40.63 | 1,087 | 0.32 | 0.39 | 59.5 |
| 4/29/2015 8:07:22 | 46.26 | 40.96 | 1,098 | 0.32 | 0.39 | 60.1 |
| 4/29/2015 8:07:23 | 46.59 | 41.29 | 1,098 | 0.32 | 0.39 | 60.1 |
| 4/29/2015 8:07:23 | 46.92 | 41.62 | 1,089 | 0.32 | 0.38 | 59.5 |
| 4/29/2015 8:07:23 | 47.24 | 41.94 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 8:07:24 | 47.57 | 42.27 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 8:07:24 | 47.90 | 42.60 | 1,105 | 0.33 | 0.39 | 60.4 |
| 4/29/2015 8:07:24 | 48.23 | 42.93 | 1,105 | 0.33 | 0.39 | 60.4 |
| 4/29/2015 8:07:24 | 48.56 | 43.26 | 1,100 | 0.34 | 0.39 | 60.1 |
| 4/29/2015 8:07:25 | 48.88 | 43.58 | 1,086 | 0.31 | 0.39 | 59.4 |
| 4/29/2015 8:07:26 | 49.21 | 43.91 | 1,086 | 0.31 | 0.39 | 59.4 |
| 4/29/2015 8:07:35 | 49.54 | 44.24 | 6 | 3.60 | 0.44 | 0.3 |
| 4/29/2015 8:07:38 | 49.87 | 44.57 | 6 | 3.60 | 0.44 | 0.3 |
| 4/29/2015 8:07:41 | 50.20 | 44.90 | 0 | 5.41 | 0.49 | 0.0 |
| 4/29/2015 8:07:45 | 50.53 | 45.23 | 72 | 3.50 | 0.44 | 3.9 |
| 4/29/2015 8:07:46 | 50.85 | 45.55 | 165 | 3.74 | 0.45 | 9.0 |
| 4/29/2015 8:07:53 | 51.18 | 45.88 | 14 | 4.38 | 0.46 | 0.7 |
| 4/29/2015 8:07:54 | 51.51 | 46.21 | 126 | 3.80 | 0.43 | 6.9 |
| 4/29/2015 8:07:54 | 51.84 | 46.54 | 226 | 3.15 | 0.43 | 12.4 |
| 4/29/2015 8:07:55 | 52.17 | 46.87 | 334 | 3.11 | 0.42 | 18.3 |
| 4/29/2015 8:07:56 | 52.49 | 47.19 | 453 | 3.16 | 0.46 | 24.8 |
| 4/29/2015 8:07:57 | 52.82 | 47.52 | 514 | 3.12 | 0.43 | 28.1 |
| 4/29/2015 8:08:10 | 53.15 | 47.85 | 50 | 3.16 | 0.43 | 2.7 |
| 4/29/2015 8:08:11 | 53.48 | 48.18 | 153 | 2.77 | 0.41 | 8.4 |
| 4/29/2015 8:08:11 | 53.81 | 48.51 | 279 | 2.46 | 0.42 | 15.3 |
| 4/29/2015 8:08:22 | 54.13 | 48.83 | 0 | 2.97 | 0.41 | 0.0 |
| 4/29/2015 8:08:24 | 54.46 | 49.16 | 114 | 4.53 | 0.44 | 6.2 |
| 4/29/2015 8:08:25 | 54.79 | 49.49 | 211 | 2.97 | 0.44 | 11.5 |
| 4/29/2015 8:08:58 | 55.12 | 49.82 | 9 | 3.32 | 0.46 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:09:06 | 55.45 | 50.15 | 44 | 3.41 | 0.47 | 2.4 |
| 4/29/2015 | 8:09:09 | 55.77 | 50.47 | 111 | 3.40 | 0.46 | 6.1 |
| 4/29/2015 | 8:09:13 | 56.10 | 50.80 | 93 | 3.49 | 0.46 | 5.1 |
| 4/29/2015 | 8:09:16 | 56.43 | 51.13 | 98 | 3.36 | 0.46 | 5.4 |
| 4/29/2015 | 8:09:21 | 56.76 | 51.46 | 72 | 3.56 | 0.47 | 3.9 |
| 4/29/2015 | 8:09:26 | 57.09 | 51.79 | 79 | 3.90 | 0.47 | 4.3 |
| 4/29/2015 | 8:09:32 | 57.41 | 52.11 | 66 | 3.60 | 0.46 | 3.6 |
| 4/29/2015 | 8:09:36 | 57.74 | 52.44 | 75 | 3.55 | 0.47 | 4.1 |
| 4/29/2015 | 8:09:41 | 57.99 | 52.69 | 63 | 3.54 | 0.47 | 3.4 |

## J14 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:05:16

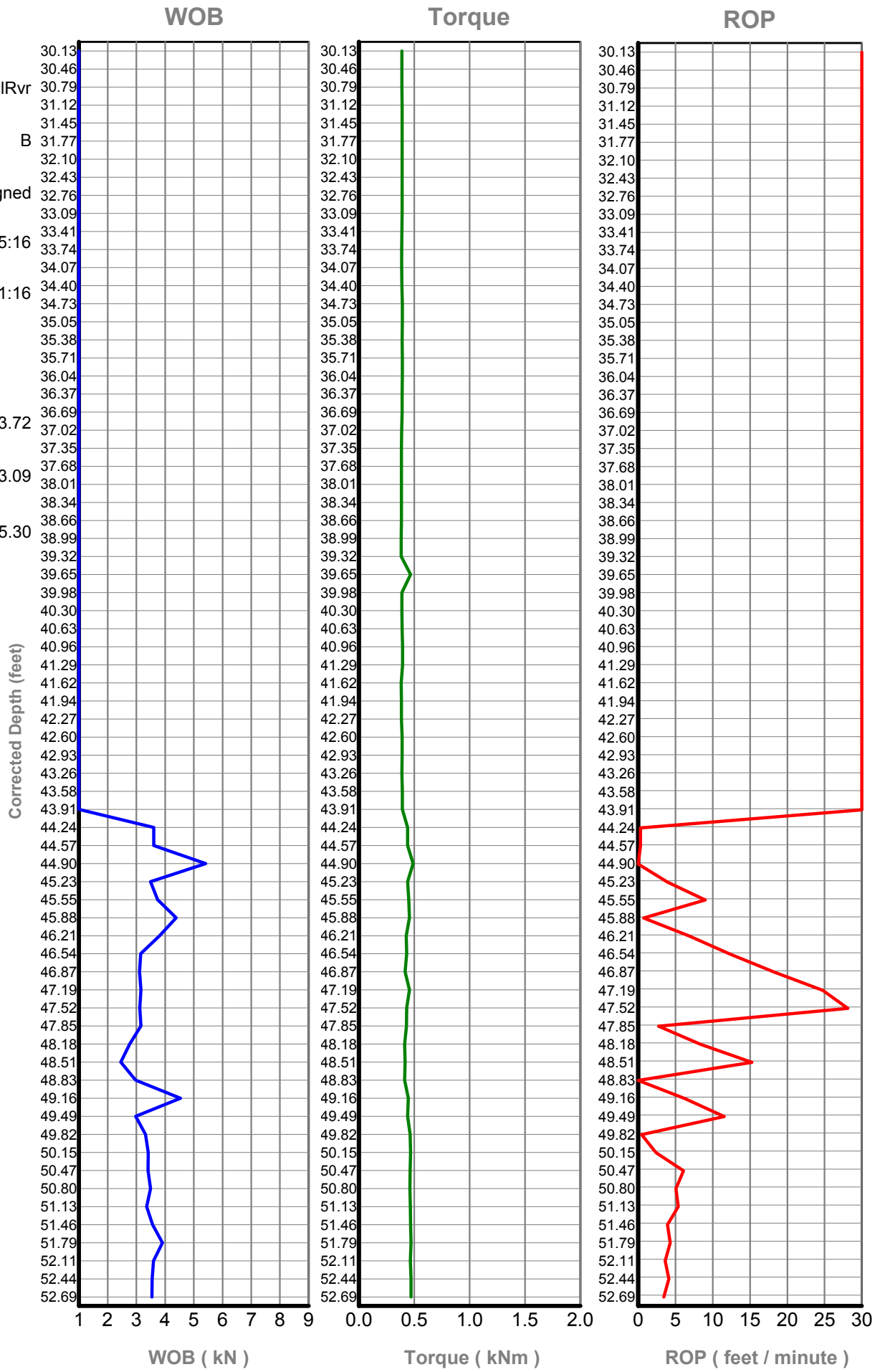
**End Date:**
4/29/2015 8:11:16

**Operator Note:**
'5.3 5.1 b Rock'

**Northing:**
362,603.72

**Easting:**
246,433.09

**Tide (feet):**
5.30



## Hole: J15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:07:55 | 35.43 | 30.13 | 963 | 1.63 | 0.30 | 52.6 |
| 4/29/2015 8:07:56 | 35.76 | 30.46 | 963 | 1.63 | 0.30 | 52.6 |
| 4/29/2015 8:07:56 | 36.09 | 30.79 | 963 | 1.64 | 0.31 | 52.6 |
| 4/29/2015 8:07:56 | 36.42 | 31.12 | 963 | 1.64 | 0.31 | 52.6 |
| 4/29/2015 8:07:57 | 36.75 | 31.45 | 963 | 1.64 | 0.31 | 52.6 |
| 4/29/2015 8:07:57 | 37.07 | 31.77 | 963 | 1.64 | 0.31 | 52.6 |
| 4/29/2015 8:07:57 | 37.40 | 32.10 | 960 | 1.65 | 0.31 | 52.5 |
| 4/29/2015 8:07:58 | 37.73 | 32.43 | 963 | 1.62 | 0.31 | 52.6 |
| 4/29/2015 8:07:58 | 38.06 | 32.76 | 963 | 1.62 | 0.31 | 52.6 |
| 4/29/2015 8:07:58 | 38.39 | 33.09 | 960 | 1.63 | 0.31 | 52.5 |
| 4/29/2015 8:07:59 | 38.71 | 33.41 | 960 | 1.63 | 0.31 | 52.5 |
| 4/29/2015 8:07:59 | 39.04 | 33.74 | 960 | 1.63 | 0.31 | 52.5 |
| 4/29/2015 8:08:00 | 39.37 | 34.07 | 963 | 1.64 | 0.31 | 52.6 |
| 4/29/2015 8:08:00 | 39.70 | 34.40 | 952 | 1.63 | 0.31 | 52.1 |
| 4/29/2015 8:08:01 | 40.03 | 34.73 | 952 | 1.56 | 0.32 | 52.1 |
| 4/29/2015 8:08:01 | 40.35 | 35.05 | 952 | 1.56 | 0.32 | 52.1 |
| 4/29/2015 8:08:01 | 40.68 | 35.38 | 963 | 1.59 | 0.31 | 52.7 |
| 4/29/2015 8:08:02 | 41.01 | 35.71 | 969 | 1.63 | 0.31 | 53.0 |
| 4/29/2015 8:08:02 | 41.34 | 36.04 | 969 | 1.63 | 0.31 | 53.0 |
| 4/29/2015 8:08:02 | 41.67 | 36.37 | 980 | 1.61 | 0.31 | 53.6 |
| 4/29/2015 8:08:03 | 41.99 | 36.69 | 989 | 1.61 | 0.31 | 54.1 |
| 4/29/2015 8:08:03 | 42.32 | 37.02 | 989 | 1.61 | 0.31 | 54.1 |
| 4/29/2015 8:08:03 | 42.65 | 37.35 | 1,008 | 1.62 | 0.31 | 55.1 |
| 4/29/2015 8:08:04 | 42.98 | 37.68 | 1,003 | 1.60 | 0.31 | 54.9 |
| 4/29/2015 8:08:04 | 43.31 | 38.01 | 1,003 | 1.60 | 0.31 | 54.9 |
| 4/29/2015 8:08:04 | 43.64 | 38.34 | 1,015 | 1.64 | 0.31 | 55.5 |
| 4/29/2015 8:08:05 | 43.96 | 38.66 | 1,006 | 1.62 | 0.31 | 55.0 |
| 4/29/2015 8:08:05 | 44.29 | 38.99 | 1,006 | 1.62 | 0.31 | 55.0 |
| 4/29/2015 8:08:05 | 44.62 | 39.32 | 1,003 | 1.61 | 0.31 | 54.8 |
| 4/29/2015 8:08:06 | 44.95 | 39.65 | 989 | 1.62 | 0.32 | 54.1 |
| 4/29/2015 8:08:06 | 45.28 | 39.98 | 989 | 1.62 | 0.32 | 54.1 |
| 4/29/2015 8:08:06 | 45.60 | 40.30 | 989 | 1.62 | 0.32 | 54.1 |
| 4/29/2015 8:08:07 | 45.93 | 40.63 | 998 | 1.61 | 0.31 | 54.6 |
| 4/29/2015 8:08:07 | 46.26 | 40.96 | 995 | 1.63 | 0.31 | 54.4 |
| 4/29/2015 8:08:08 | 46.59 | 41.29 | 995 | 1.63 | 0.31 | 54.4 |
| 4/29/2015 8:08:08 | 46.92 | 41.62 | 992 | 1.62 | 0.31 | 54.3 |
| 4/29/2015 8:08:08 | 47.24 | 41.94 | 998 | 1.60 | 0.31 | 54.6 |
| 4/29/2015 8:08:09 | 47.57 | 42.27 | 998 | 1.60 | 0.31 | 54.6 |
| 4/29/2015 8:08:09 | 47.90 | 42.60 | 1,012 | 1.62 | 0.31 | 55.3 |
| 4/29/2015 8:08:09 | 48.23 | 42.93 | 1,000 | 1.63 | 0.31 | 54.7 |
| 4/29/2015 8:08:10 | 48.56 | 43.26 | 1,000 | 1.63 | 0.31 | 54.7 |
| 4/29/2015 8:08:10 | 48.88 | 43.58 | 997 | 1.61 | 0.31 | 54.5 |
| 4/29/2015 8:08:11 | 49.21 | 43.91 | 1,003 | 1.65 | 0.31 | 54.8 |
| 4/29/2015 8:08:55 | 49.54 | 44.24 | 0 | 1.65 | 1.28 | 0.0 |
| 4/29/2015 8:08:58 | 49.87 | 44.57 | 191 | 1.68 | 1.11 | 10.4 |
| 4/29/2015 8:08:58 | 50.20 | 44.90 | 211 | 1.66 | 1.31 | 11.6 |
| 4/29/2015 8:08:59 | 50.53 | 45.23 | 317 | 1.70 | 1.07 | 17.4 |
| 4/29/2015 8:08:59 | 50.85 | 45.55 | 429 | 1.70 | 1.05 | 23.5 |
| 4/29/2015 8:09:00 | 51.18 | 45.88 | 552 | 1.86 | 1.31 | 30.2 |
| 4/29/2015 8:09:32 | 51.51 | 46.21 | 74 | 1.64 | 1.39 | 4.0 |
| 4/29/2015 8:09:33 | 51.84 | 46.54 | 241 | 1.76 | 1.25 | 13.2 |
| 4/29/2015 8:09:36 | 52.17 | 46.87 | 131 | 1.66 | 1.07 | 7.2 |
| 4/29/2015 8:09:37 | 52.49 | 47.19 | 200 | 1.67 | 1.22 | 10.9 |
| 4/29/2015 8:09:37 | 52.82 | 47.52 | 291 | 1.69 | 1.17 | 15.9 |
| 4/29/2015 8:10:24 | 53.15 | 47.85 | 0 | 1.67 | 1.07 | 0.0 |
| 4/29/2015 8:10:56 | 53.48 | 48.18 | 26 | 1.68 | 1.01 | 1.4 |
| 4/29/2015 8:10:57 | 53.81 | 48.51 | 158 | 1.65 | 1.03 | 8.6 |
| 4/29/2015 8:10:58 | 54.13 | 48.83 | 290 | 1.66 | 0.95 | 15.9 |
| 4/29/2015 8:10:58 | 54.46 | 49.16 | 419 | 1.66 | 0.98 | 22.9 |
| 4/29/2015 8:11:33 | 54.79 | 49.49 | 68 | 1.70 | 0.94 | 3.7 |
| 4/29/2015 8:11:33 | 55.12 | 49.82 | 199 | 1.68 | 0.92 | 10.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:11:34 | 55.45 | 50.15 | 330 | 1.71 | 0.90 | 18.1 |
| 4/29/2015 | 8:12:15 | 55.77 | 50.47 | 29 | 1.61 | 1.20 | 1.6 |
| 4/29/2015 | 8:12:16 | 56.10 | 50.80 | 171 | 1.62 | 1.36 | 9.3 |
| 4/29/2015 | 8:12:17 | 56.43 | 51.13 | 310 | 1.66 | 1.04 | 17.0 |
| 4/29/2015 | 8:12:18 | 56.76 | 51.46 | 387 | 1.66 | 0.94 | 21.2 |
| 4/29/2015 | 8:12:50 | 57.09 | 51.79 | 0 | 1.68 | 1.06 | 0.0 |
| 4/29/2015 | 8:12:51 | 57.41 | 52.11 | 133 | 1.66 | 1.20 | 7.3 |
| 4/29/2015 | 8:12:52 | 57.74 | 52.44 | 272 | 1.62 | 1.07 | 14.9 |
| 4/29/2015 | 8:12:53 | 58.07 | 52.77 | 339 | 1.64 | 1.11 | 18.5 |
| 4/29/2015 | 8:12:54 | 58.40 | 53.10 | 339 | 1.67 | 1.04 | 18.5 |
| 4/29/2015 | 8:12:56 | 58.73 | 53.43 | 301 | 1.66 | 1.12 | 16.4 |
| 4/29/2015 | 8:12:57 | 59.06 | 53.76 | 223 | 1.63 | 1.12 | 12.2 |
| 4/29/2015 | 8:13:04 | 59.38 | 54.08 | 29 | 1.69 | 1.08 | 1.6 |
| 4/29/2015 | 8:13:05 | 59.71 | 54.41 | 113 | 1.66 | 1.03 | 6.2 |
| 4/29/2015 | 8:13:06 | 60.04 | 54.74 | 234 | 1.62 | 1.14 | 12.8 |
| 4/29/2015 | 8:13:08 | 60.37 | 55.07 | 316 | 1.64 | 1.23 | 17.3 |
| 4/29/2015 | 8:13:35 | 60.50 | 55.20 | 0 | 1.28 | 0.82 | 0.0 |

## J15 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:06:10

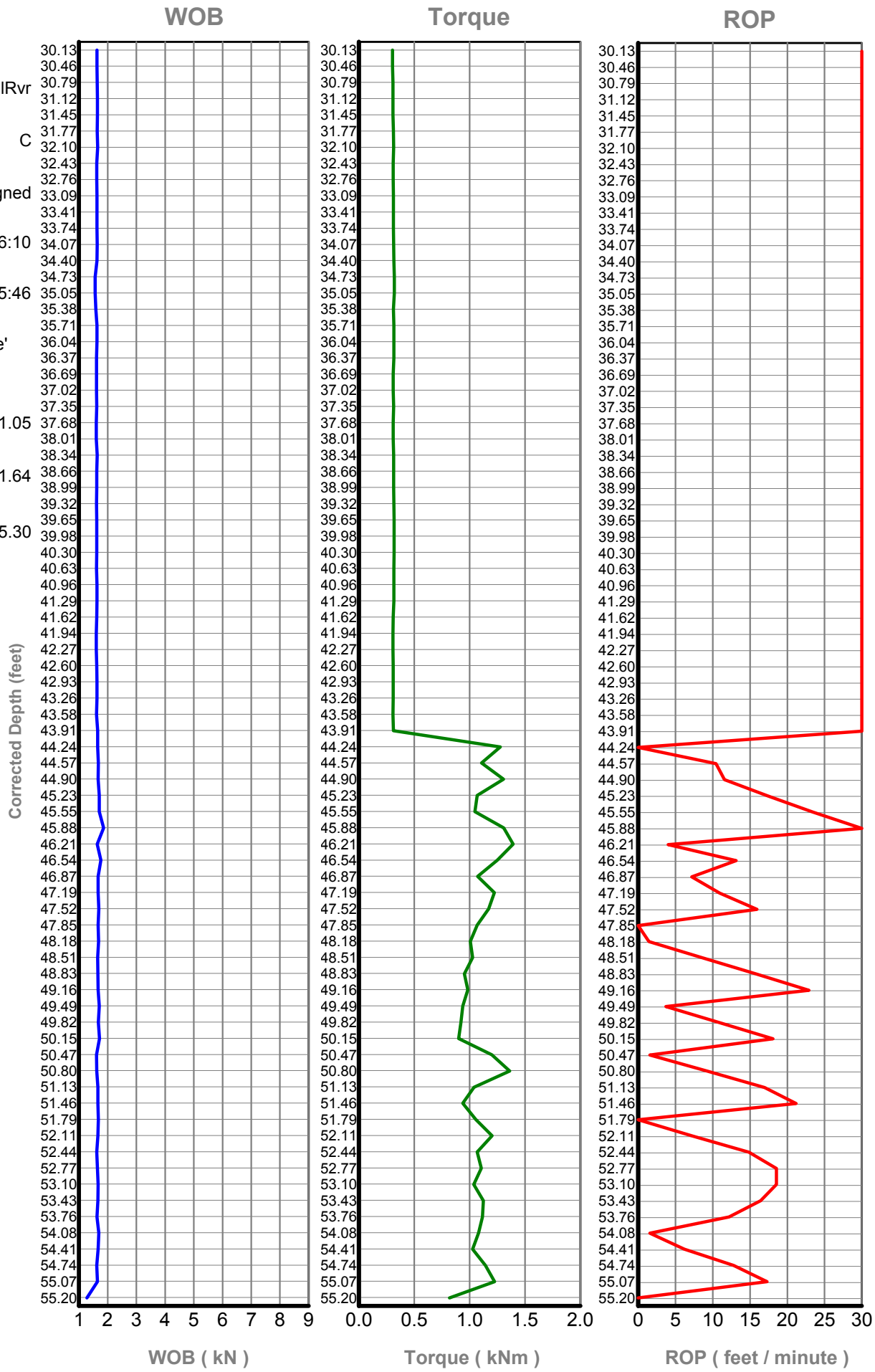
**End Date:**
4/29/2015 8:15:46

**Operator Note:**
'5.3 5.1 c Auto Complete'

**Northing:**
362,651.05

**Easting:**
246,491.64

**Tide (feet):**
5.30



## Hole: J16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:30:02 | 31.50 | 30.10 | 727 | 1.09 | 0.80 | 39.8 |
| 4/29/2015 5:30:03 | 31.82 | 30.42 | 734 | 1.08 | 0.79 | 40.2 |
| 4/29/2015 5:30:03 | 32.15 | 30.75 | 727 | 1.09 | 0.79 | 39.8 |
| 4/29/2015 5:30:04 | 32.48 | 31.08 | 727 | 1.09 | 0.79 | 39.8 |
| 4/29/2015 5:30:04 | 32.81 | 31.41 | 732 | 1.09 | 0.79 | 40.0 |
| 4/29/2015 5:30:04 | 33.14 | 31.74 | 719 | 1.08 | 0.79 | 39.3 |
| 4/29/2015 5:30:05 | 33.46 | 32.06 | 719 | 1.07 | 0.79 | 39.3 |
| 4/29/2015 5:30:05 | 33.79 | 32.39 | 730 | 1.09 | 0.79 | 39.9 |
| 4/29/2015 5:30:06 | 34.12 | 32.72 | 727 | 1.08 | 0.80 | 39.8 |
| 4/29/2015 5:30:06 | 34.45 | 33.05 | 730 | 1.09 | 0.80 | 39.9 |
| 4/29/2015 5:30:07 | 34.78 | 33.38 | 723 | 1.09 | 0.79 | 39.5 |
| 4/29/2015 5:30:07 | 35.11 | 33.71 | 734 | 1.07 | 0.79 | 40.1 |
| 4/29/2015 5:30:08 | 35.43 | 34.03 | 728 | 1.08 | 0.79 | 39.8 |
| 4/29/2015 5:30:08 | 35.76 | 34.36 | 724 | 1.09 | 0.80 | 39.6 |
| 4/29/2015 5:30:09 | 36.09 | 34.69 | 729 | 1.08 | 0.20 | 39.8 |
| 4/29/2015 5:30:09 | 36.42 | 35.02 | 716 | 1.09 | 0.20 | 39.2 |
| 4/29/2015 5:30:10 | 36.75 | 35.35 | 716 | 1.08 | 0.20 | 39.2 |
| 4/29/2015 5:30:10 | 37.07 | 35.67 | 725 | 1.07 | 0.20 | 39.6 |
| 4/29/2015 5:30:11 | 37.40 | 36.00 | 726 | 1.08 | 0.20 | 39.7 |
| 4/29/2015 5:30:11 | 37.73 | 36.33 | 726 | 1.08 | 0.20 | 39.7 |
| 4/29/2015 5:30:12 | 38.06 | 36.66 | 730 | 1.09 | 0.20 | 39.9 |
| 4/29/2015 5:30:12 | 38.39 | 36.99 | 715 | 1.09 | 0.20 | 39.1 |
| 4/29/2015 5:30:13 | 38.71 | 37.31 | 739 | 1.07 | 0.20 | 40.4 |
| 4/29/2015 5:30:13 | 39.04 | 37.64 | 723 | 1.09 | 0.20 | 39.5 |
| 4/29/2015 5:30:14 | 39.37 | 37.97 | 723 | 1.09 | 0.20 | 39.5 |
| 4/29/2015 5:30:14 | 39.70 | 38.30 | 728 | 1.08 | 0.20 | 39.8 |
| 4/29/2015 5:30:15 | 40.03 | 38.63 | 719 | 1.09 | 0.20 | 39.3 |
| 4/29/2015 5:30:15 | 40.35 | 38.95 | 734 | 1.09 | 0.20 | 40.2 |
| 4/29/2015 5:30:16 | 40.68 | 39.28 | 727 | 1.09 | 0.20 | 39.7 |
| 4/29/2015 5:30:16 | 41.01 | 39.61 | 717 | 1.09 | 0.20 | 39.2 |
| 4/29/2015 5:30:17 | 41.34 | 39.94 | 717 | 1.09 | 0.20 | 39.2 |
| 4/29/2015 5:30:17 | 41.67 | 40.27 | 719 | 1.09 | 0.20 | 39.3 |
| 4/29/2015 5:30:18 | 41.99 | 40.59 | 709 | 1.09 | 0.20 | 38.7 |
| 4/29/2015 5:30:18 | 42.32 | 40.92 | 709 | 1.08 | 0.20 | 38.7 |
| 4/29/2015 5:30:19 | 42.65 | 41.25 | 712 | 1.08 | 0.20 | 38.9 |
| 4/29/2015 5:30:19 | 42.98 | 41.58 | 710 | 1.07 | 0.20 | 38.8 |
| 4/29/2015 5:30:20 | 43.31 | 41.91 | 710 | 1.07 | 0.20 | 38.8 |
| 4/29/2015 5:30:20 | 43.64 | 42.24 | 721 | 1.09 | 0.20 | 39.4 |
| 4/29/2015 5:30:20 | 43.96 | 42.56 | 700 | 1.07 | 0.20 | 38.3 |
| 4/29/2015 5:30:21 | 44.29 | 42.89 | 700 | 1.08 | 0.20 | 38.3 |
| 4/29/2015 5:30:22 | 44.62 | 43.22 | 719 | 1.07 | 0.20 | 39.3 |
| 4/29/2015 5:30:22 | 44.95 | 43.55 | 719 | 1.07 | 0.20 | 39.3 |
| 4/29/2015 5:30:23 | 45.28 | 43.88 | 717 | 1.09 | 0.20 | 39.2 |
| 4/29/2015 5:30:23 | 45.60 | 44.20 | 724 | 1.09 | 0.20 | 39.6 |
| 4/29/2015 5:30:39 | 45.93 | 44.53 | 0 | 1.24 | 0.68 | 0.0 |
| 4/29/2015 5:30:41 | 46.26 | 44.86 | 142 | 1.13 | 1.47 | 7.8 |
| 4/29/2015 5:30:50 | 46.59 | 45.19 | 12 | 1.08 | 1.03 | 0.6 |
| 4/29/2015 5:30:52 | 46.92 | 45.52 | 149 | 1.84 | 1.37 | 8.1 |
| 4/29/2015 5:30:54 | 47.24 | 45.84 | 200 | 1.08 | 1.59 | 11.0 |
| 4/29/2015 5:30:57 | 47.57 | 46.17 | 69 | 1.00 | 0.97 | 3.8 |
| 4/29/2015 5:31:01 | 47.90 | 46.50 | 145 | 1.21 | 1.04 | 7.9 |
| 4/29/2015 5:31:37 | 48.23 | 46.83 | 17 | 1.15 | 0.98 | 0.9 |
| 4/29/2015 5:31:39 | 48.56 | 47.16 | 85 | 1.72 | 1.25 | 4.7 |
| 4/29/2015 5:31:44 | 48.88 | 47.48 | 36 | 1.06 | 1.50 | 2.0 |
| 4/29/2015 5:31:46 | 49.21 | 47.81 | 150 | 1.10 | 1.21 | 8.2 |
| 4/29/2015 5:31:48 | 49.54 | 48.14 | 219 | 1.09 | 1.23 | 12.0 |
| 4/29/2015 5:31:49 | 49.87 | 48.47 | 262 | 1.00 | 1.22 | 14.3 |
| 4/29/2015 5:31:50 | 50.20 | 48.80 | 286 | 1.19 | 1.05 | 15.6 |
| 4/29/2015 5:32:04 | 50.53 | 49.13 | 46 | 1.11 | 1.28 | 2.5 |
| 4/29/2015 5:32:07 | 50.85 | 49.45 | 214 | 1.93 | 0.99 | 11.7 |
| 4/29/2015 5:32:07 | 51.18 | 49.78 | 214 | 1.93 | 0.99 | 11.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:32:07 | 51.51 | 50.11 | 323 | 1.11 | 0.90 | 17.6 |
| 4/29/2015 | 5:32:08 | 51.84 | 50.44 | 477 | 1.13 | 0.74 | 26.1 |
| 4/29/2015 | 5:32:09 | 52.17 | 50.77 | 543 | 1.11 | 0.77 | 29.7 |
| 4/29/2015 | 5:32:10 | 52.49 | 51.09 | 580 | 1.11 | 0.73 | 31.7 |
| 4/29/2015 | 5:32:10 | 52.82 | 51.42 | 532 | 1.12 | 0.77 | 29.1 |
| 4/29/2015 | 5:32:11 | 53.15 | 51.75 | 442 | 1.11 | 0.77 | 24.2 |
| 4/29/2015 | 5:32:12 | 53.48 | 52.08 | 436 | 1.11 | 0.74 | 23.8 |
| 4/29/2015 | 5:32:13 | 53.81 | 52.41 | 425 | 1.09 | 0.98 | 23.2 |
| 4/29/2015 | 5:32:14 | 54.13 | 52.73 | 430 | 1.09 | 0.86 | 23.5 |
| 4/29/2015 | 5:32:14 | 54.46 | 53.06 | 411 | 1.11 | 0.98 | 22.5 |
| 4/29/2015 | 5:32:15 | 54.79 | 53.39 | 400 | 1.11 | 0.82 | 21.9 |
| 4/29/2015 | 5:32:17 | 55.12 | 53.72 | 378 | 1.11 | 0.83 | 20.6 |
| 4/29/2015 | 5:32:18 | 55.45 | 54.05 | 373 | 1.13 | 0.83 | 20.4 |
| 4/29/2015 | 5:32:19 | 55.77 | 54.37 | 326 | 1.13 | 0.96 | 17.8 |
| 4/29/2015 | 5:32:21 | 56.10 | 54.70 | 286 | 1.13 | 1.07 | 15.6 |
| 4/29/2015 | 5:32:24 | 56.29 | 54.89 | 61 | 1.12 | 1.33 | 3.3 |

## J16 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:26:42

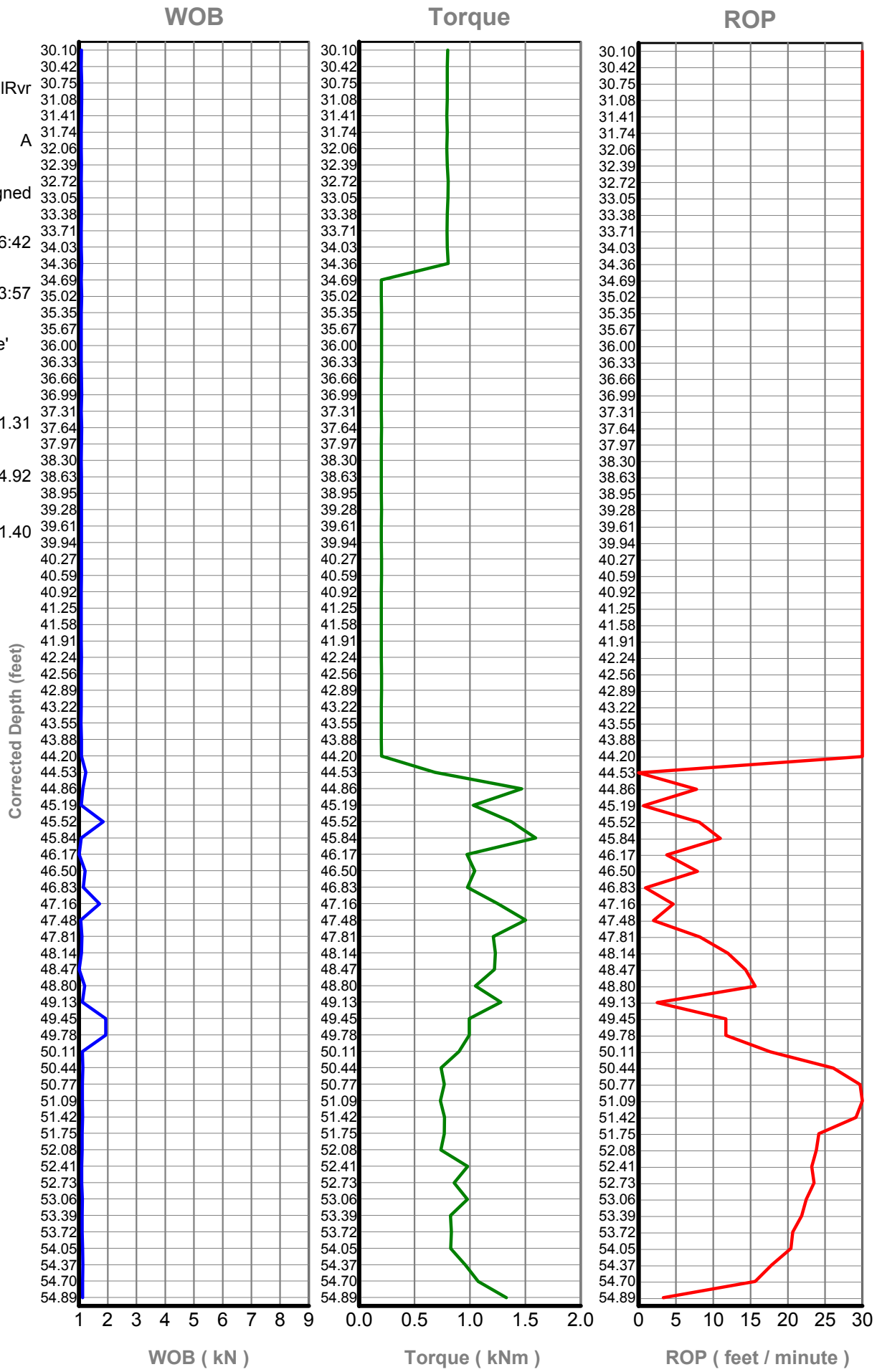
**End Date:**
4/29/2015 5:33:57

**Operator Note:**
'1.4 1.3 b Auto Complete'

**Northing:**
362,691.31

**Easting:**
246,534.92

**Tide (feet):**
1.40



## Hole: J17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:29:10 | 31.50 | 30.10 | 1,055 | 0.33 | 0.38 | 57.7 |
| 4/29/2015 5:29:10 | 31.82 | 30.42 | 1,052 | 0.33 | 0.38 | 57.5 |
| 4/29/2015 5:29:11 | 32.15 | 30.75 | 1,052 | 0.33 | 0.38 | 57.5 |
| 4/29/2015 5:29:11 | 32.48 | 31.08 | 1,052 | 0.33 | 0.38 | 57.5 |
| 4/29/2015 5:29:11 | 32.81 | 31.41 | 1,061 | 0.36 | 0.38 | 58.0 |
| 4/29/2015 5:29:12 | 33.14 | 31.74 | 1,061 | 0.36 | 0.38 | 58.0 |
| 4/29/2015 5:29:12 | 33.46 | 32.06 | 1,054 | 0.33 | 0.38 | 57.7 |
| 4/29/2015 5:29:12 | 33.79 | 32.39 | 1,064 | 0.33 | 0.38 | 58.2 |
| 4/29/2015 5:29:13 | 34.12 | 32.72 | 1,064 | 0.33 | 0.38 | 58.2 |
| 4/29/2015 5:29:13 | 34.45 | 33.05 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:13 | 34.78 | 33.38 | 1,071 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:14 | 35.11 | 33.71 | 1,071 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:14 | 35.43 | 34.03 | 1,062 | 0.33 | 0.38 | 58.1 |
| 4/29/2015 5:29:14 | 35.76 | 34.36 | 1,062 | 0.33 | 0.38 | 58.1 |
| 4/29/2015 5:29:14 | 36.09 | 34.69 | 1,062 | 0.33 | 0.38 | 58.1 |
| 4/29/2015 5:29:15 | 36.42 | 35.02 | 1,041 | 0.33 | 0.38 | 56.9 |
| 4/29/2015 5:29:15 | 36.75 | 35.35 | 1,041 | 0.33 | 0.38 | 56.9 |
| 4/29/2015 5:29:15 | 37.07 | 35.67 | 1,041 | 0.33 | 0.38 | 56.9 |
| 4/29/2015 5:29:16 | 37.40 | 36.00 | 1,057 | 0.33 | 0.38 | 57.8 |
| 4/29/2015 5:29:16 | 37.73 | 36.33 | 1,057 | 0.33 | 0.38 | 57.8 |
| 4/29/2015 5:29:16 | 38.06 | 36.66 | 1,047 | 0.33 | 0.38 | 57.2 |
| 4/29/2015 5:29:17 | 38.39 | 36.99 | 1,053 | 0.33 | 0.38 | 57.6 |
| 4/29/2015 5:29:17 | 38.71 | 37.31 | 1,053 | 0.33 | 0.38 | 57.6 |
| 4/29/2015 5:29:17 | 39.04 | 37.64 | 1,059 | 0.33 | 0.38 | 57.9 |
| 4/29/2015 5:29:18 | 39.37 | 37.97 | 1,071 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:19 | 39.70 | 38.30 | 1,071 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:19 | 40.03 | 38.63 | 1,060 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:19 | 40.35 | 38.95 | 1,067 | 0.33 | 0.38 | 58.3 |
| 4/29/2015 5:29:20 | 40.68 | 39.28 | 1,067 | 0.33 | 0.38 | 58.3 |
| 4/29/2015 5:29:20 | 41.01 | 39.61 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:20 | 41.34 | 39.94 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:20 | 41.67 | 40.27 | 1,064 | 0.33 | 0.38 | 58.2 |
| 4/29/2015 5:29:21 | 41.99 | 40.59 | 1,049 | 0.32 | 0.38 | 57.4 |
| 4/29/2015 5:29:21 | 42.32 | 40.92 | 1,049 | 0.32 | 0.38 | 57.4 |
| 4/29/2015 5:29:21 | 42.65 | 41.25 | 1,049 | 0.33 | 0.38 | 57.4 |
| 4/29/2015 5:29:22 | 42.98 | 41.58 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:22 | 43.31 | 41.91 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:22 | 43.64 | 42.24 | 1,052 | 0.33 | 0.38 | 57.5 |
| 4/29/2015 5:29:23 | 43.96 | 42.56 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:23 | 44.29 | 42.89 | 1,061 | 0.33 | 0.38 | 58.0 |
| 4/29/2015 5:29:23 | 44.62 | 43.22 | 1,058 | 0.33 | 0.39 | 57.8 |
| 4/29/2015 5:29:24 | 44.95 | 43.55 | 1,075 | 0.33 | 0.38 | 58.8 |
| 4/29/2015 5:29:24 | 45.28 | 43.88 | 1,075 | 0.33 | 0.38 | 58.8 |
| 4/29/2015 5:29:24 | 45.60 | 44.20 | 1,070 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:25 | 45.93 | 44.53 | 1,070 | 0.33 | 0.38 | 58.5 |
| 4/29/2015 5:29:25 | 46.26 | 44.86 | 1,075 | 0.33 | 0.38 | 58.8 |
| 4/29/2015 5:29:25 | 46.59 | 45.19 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 5:29:26 | 46.92 | 45.52 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 5:29:26 | 47.24 | 45.84 | 1,075 | 0.31 | 0.41 | 58.8 |
| 4/29/2015 5:29:30 | 47.57 | 46.17 | 0 | 2.35 | 0.40 | 0.0 |
| 4/29/2015 5:29:30 | 47.90 | 46.50 | 132 | 2.71 | 0.44 | 7.2 |
| 4/29/2015 5:29:33 | 48.23 | 46.83 | 186 | 2.47 | 0.39 | 10.2 |
| 4/29/2015 5:29:33 | 48.56 | 47.16 | 186 | 3.52 | 0.43 | 10.2 |
| 4/29/2015 5:29:34 | 48.88 | 47.48 | 223 | 4.09 | 0.45 | 12.2 |
| 4/29/2015 5:29:35 | 49.21 | 47.81 | 285 | 3.88 | 0.44 | 15.6 |
| 4/29/2015 5:29:37 | 49.54 | 48.14 | 276 | 3.96 | 0.43 | 15.1 |
| 4/29/2015 5:29:38 | 49.87 | 48.47 | 276 | 2.90 | 0.43 | 15.1 |
| 4/29/2015 5:29:39 | 50.20 | 48.80 | 273 | 4.25 | 0.45 | 14.9 |
| 4/29/2015 5:29:42 | 50.53 | 49.13 | 203 | 5.37 | 0.47 | 11.1 |
| 4/29/2015 5:29:44 | 50.85 | 49.45 | 156 | 4.43 | 0.46 | 8.5 |
| 4/29/2015 5:29:45 | 51.18 | 49.78 | 241 | 4.78 | 0.45 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:29:46 | 51.51 | 50.11 | 270 | 2.80 | 0.42 | 14.8 |
| 4/29/2015 | 5:29:47 | 51.84 | 50.44 | 341 | 2.46 | 0.41 | 18.6 |
| 4/29/2015 | 5:29:47 | 52.17 | 50.77 | 430 | 2.57 | 0.42 | 23.5 |
| 4/29/2015 | 5:29:48 | 52.49 | 51.09 | 504 | 2.75 | 0.43 | 27.6 |
| 4/29/2015 | 5:29:50 | 52.82 | 51.42 | 447 | 3.22 | 0.45 | 24.4 |
| 4/29/2015 | 5:29:51 | 53.15 | 51.75 | 236 | 3.16 | 0.45 | 12.9 |
| 4/29/2015 | 5:30:01 | 53.48 | 52.08 | 102 | 2.56 | 0.43 | 5.6 |
| 4/29/2015 | 5:30:03 | 53.81 | 52.41 | 200 | 2.66 | 0.44 | 10.9 |
| 4/29/2015 | 5:30:04 | 54.13 | 52.73 | 253 | 2.83 | 0.44 | 13.8 |
| 4/29/2015 | 5:30:05 | 54.46 | 53.06 | 251 | 2.97 | 0.44 | 13.7 |
| 4/29/2015 | 5:30:14 | 54.79 | 53.39 | 0 | 3.66 | 0.45 | 0.0 |
| 4/29/2015 | 5:30:16 | 55.12 | 53.72 | 139 | 2.74 | 0.46 | 7.6 |
| 4/29/2015 | 5:30:20 | 55.45 | 54.05 | 105 | 2.50 | 0.46 | 5.8 |
| 4/29/2015 | 5:30:26 | 55.77 | 54.37 | 52 | 3.16 | 0.47 | 2.8 |
| 4/29/2015 | 5:30:30 | 56.10 | 54.70 | 95 | 2.76 | 0.46 | 5.2 |
| 4/29/2015 | 5:30:34 | 56.28 | 54.88 | 37 | 3.45 | 0.46 | 2.0 |

## J17 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:27:46

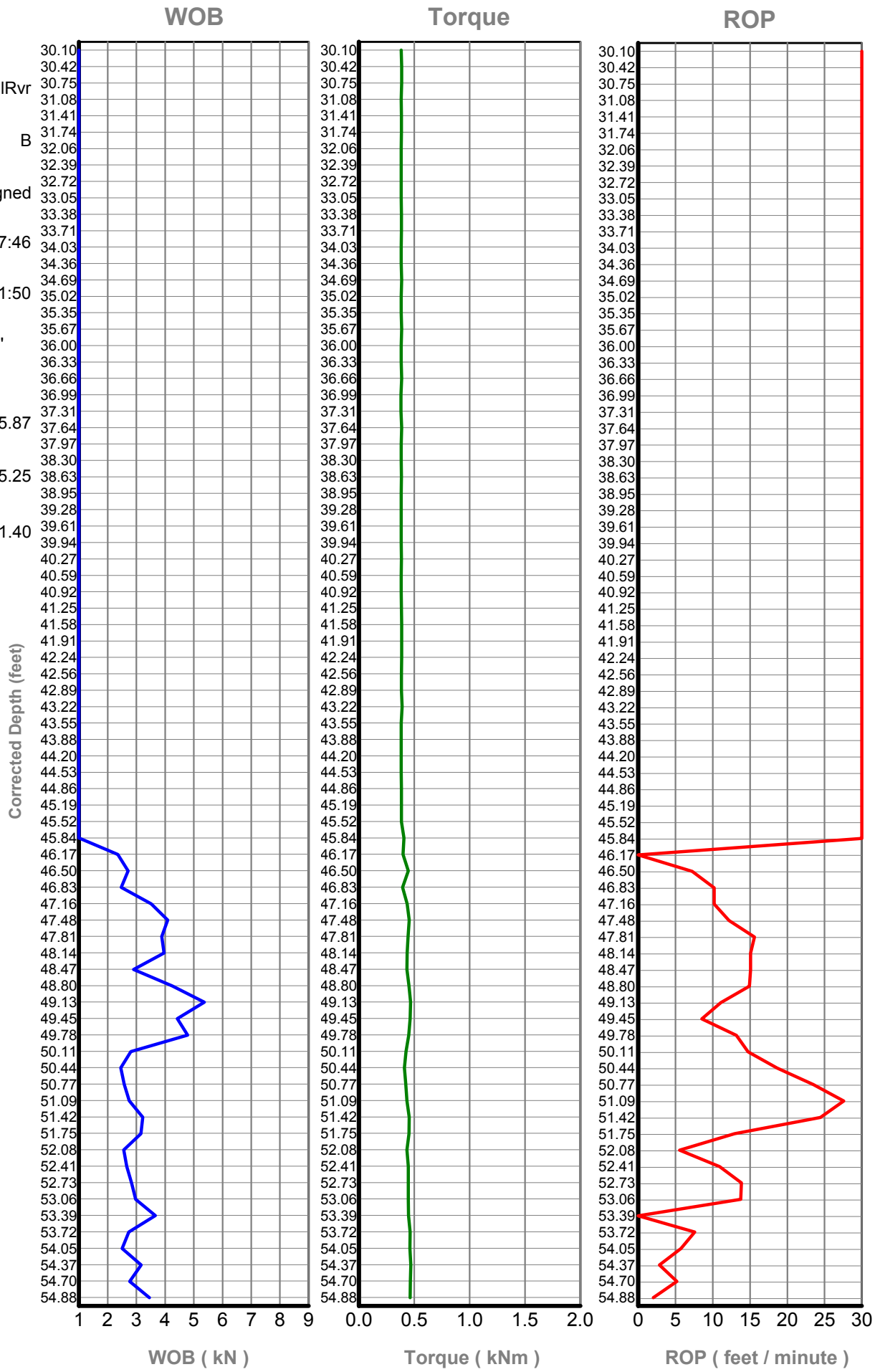
**End Date:**
4/29/2015 5:31:50

**Operator Note:**
'1.4 1.3b Auto Complete'

**Northing:**
362,735.87

**Easting:**
246,595.25

**Tide (feet):**
1.40



## Hole: J18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:28:55 | 31.50 | 30.10 | 1,068 | 1.57 | 0.14 | 58.4 |
| 4/29/2015 5:28:55 | 31.82 | 30.42 | 1,074 | 1.59 | 0.14 | 58.7 |
| 4/29/2015 5:28:55 | 32.15 | 30.75 | 1,043 | 1.62 | 0.14 | 57.1 |
| 4/29/2015 5:28:56 | 32.48 | 31.08 | 1,043 | 1.62 | 0.14 | 57.1 |
| 4/29/2015 5:28:56 | 32.81 | 31.41 | 1,074 | 1.59 | 0.14 | 58.7 |
| 4/29/2015 5:28:56 | 33.14 | 31.74 | 1,084 | 1.60 | 0.14 | 59.3 |
| 4/29/2015 5:28:57 | 33.46 | 32.06 | 1,084 | 1.60 | 0.14 | 59.3 |
| 4/29/2015 5:28:57 | 33.79 | 32.39 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 5:28:57 | 34.12 | 32.72 | 1,064 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 5:28:57 | 34.45 | 33.05 | 1,064 | 1.62 | 0.14 | 58.2 |
| 4/29/2015 5:28:58 | 34.78 | 33.38 | 1,072 | 1.59 | 0.14 | 58.6 |
| 4/29/2015 5:28:58 | 35.11 | 33.71 | 1,072 | 1.59 | 0.14 | 58.6 |
| 4/29/2015 5:28:58 | 35.43 | 34.03 | 1,097 | 1.60 | 0.14 | 60.0 |
| 4/29/2015 5:28:59 | 35.76 | 34.36 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 5:28:59 | 36.09 | 34.69 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 5:28:59 | 36.42 | 35.02 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:29:00 | 36.75 | 35.35 | 1,085 | 1.59 | 0.14 | 59.3 |
| 4/29/2015 5:29:00 | 37.07 | 35.67 | 1,085 | 1.59 | 0.14 | 59.3 |
| 4/29/2015 5:29:00 | 37.40 | 36.00 | 1,065 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 5:29:01 | 37.73 | 36.33 | 1,065 | 1.59 | 0.14 | 58.2 |
| 4/29/2015 5:29:01 | 38.06 | 36.66 | 1,058 | 1.62 | 0.14 | 57.9 |
| 4/29/2015 5:29:01 | 38.39 | 36.99 | 1,058 | 1.59 | 0.14 | 57.9 |
| 4/29/2015 5:29:02 | 38.71 | 37.31 | 1,058 | 1.59 | 0.14 | 57.9 |
| 4/29/2015 5:29:02 | 39.04 | 37.64 | 1,090 | 1.59 | 0.14 | 59.6 |
| 4/29/2015 5:29:02 | 39.37 | 37.97 | 1,093 | 1.62 | 0.14 | 59.8 |
| 4/29/2015 5:29:03 | 39.70 | 38.30 | 1,093 | 1.62 | 0.14 | 59.8 |
| 4/29/2015 5:29:03 | 40.03 | 38.63 | 1,063 | 1.59 | 0.14 | 58.1 |
| 4/29/2015 5:29:03 | 40.35 | 38.95 | 1,069 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:29:04 | 40.68 | 39.28 | 1,069 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:29:04 | 41.01 | 39.61 | 1,069 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:29:04 | 41.34 | 39.94 | 1,078 | 1.57 | 0.14 | 58.9 |
| 4/29/2015 5:29:05 | 41.67 | 40.27 | 1,078 | 1.57 | 0.14 | 58.9 |
| 4/29/2015 5:29:05 | 41.99 | 40.59 | 1,071 | 1.58 | 0.14 | 58.6 |
| 4/29/2015 5:29:06 | 42.32 | 40.92 | 1,071 | 1.58 | 0.14 | 58.6 |
| 4/29/2015 5:29:06 | 42.65 | 41.25 | 1,038 | 1.58 | 0.20 | 56.8 |
| 4/29/2015 5:29:06 | 42.98 | 41.58 | 1,038 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:29:07 | 43.31 | 41.91 | 1,038 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:29:07 | 43.64 | 42.24 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:29:07 | 43.96 | 42.56 | 1,058 | 1.60 | 0.14 | 57.8 |
| 4/29/2015 5:29:08 | 44.29 | 42.89 | 1,058 | 1.60 | 0.14 | 57.8 |
| 4/29/2015 5:29:08 | 44.62 | 43.22 | 1,040 | 1.58 | 0.14 | 56.9 |
| 4/29/2015 5:29:08 | 44.95 | 43.55 | 1,040 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 5:29:09 | 45.28 | 43.88 | 1,040 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 5:29:09 | 45.60 | 44.20 | 1,071 | 1.62 | 0.14 | 58.5 |
| 4/29/2015 5:29:09 | 45.93 | 44.53 | 1,062 | 1.59 | 0.15 | 58.1 |
| 4/29/2015 5:29:10 | 46.26 | 44.86 | 1,062 | 1.59 | 0.15 | 58.1 |
| 4/29/2015 5:29:10 | 46.59 | 45.19 | 1,060 | 1.64 | 0.14 | 57.9 |
| 4/29/2015 5:29:10 | 46.92 | 45.52 | 1,039 | 1.63 | 0.15 | 56.8 |
| 4/29/2015 5:29:11 | 47.24 | 45.84 | 1,039 | 1.63 | 0.15 | 56.8 |
| 4/29/2015 5:29:11 | 47.57 | 46.17 | 1,016 | 1.66 | 0.14 | 55.5 |
| 4/29/2015 5:29:11 | 47.90 | 46.50 | 928 | 1.67 | 0.14 | 50.7 |
| 4/29/2015 5:29:12 | 48.23 | 46.83 | 928 | 1.66 | 0.14 | 50.7 |
| 4/29/2015 5:29:12 | 48.56 | 47.16 | 854 | 1.64 | 0.14 | 46.7 |
| 4/29/2015 5:29:34 | 48.88 | 47.48 | 0 | 1.65 | 0.96 | 0.0 |
| 4/29/2015 5:29:35 | 49.21 | 47.81 | 150 | 1.80 | 0.96 | 8.2 |
| 4/29/2015 5:29:37 | 49.54 | 48.14 | 308 | 1.68 | 0.95 | 16.8 |
| 4/29/2015 5:29:38 | 49.87 | 48.47 | 328 | 1.67 | 0.97 | 17.9 |
| 4/29/2015 5:29:38 | 50.20 | 48.80 | 367 | 1.68 | 1.34 | 20.1 |
| 4/29/2015 5:29:44 | 50.53 | 49.13 | 53 | 1.64 | 1.15 | 2.9 |
| 4/29/2015 5:29:44 | 50.85 | 49.45 | 144 | 1.67 | 1.25 | 7.9 |
| 4/29/2015 5:29:50 | 51.18 | 49.78 | 31 | 1.65 | 1.16 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:29:51 | 51.51 | 50.11 | 177 | 1.65 | 1.13 | 9.7 |
| 4/29/2015 | 5:29:51 | 51.84 | 50.44 | 286 | 1.65 | 1.14 | 15.7 |
| 4/29/2015 | 5:29:52 | 52.17 | 50.77 | 403 | 1.69 | 1.10 | 22.0 |
| 4/29/2015 | 5:29:52 | 52.49 | 51.09 | 509 | 1.65 | 1.10 | 27.8 |
| 4/29/2015 | 5:29:58 | 52.82 | 51.42 | 0 | 1.64 | 1.13 | 0.0 |
| 4/29/2015 | 5:29:59 | 53.15 | 51.75 | 190 | 1.62 | 1.21 | 10.4 |
| 4/29/2015 | 5:30:00 | 53.48 | 52.08 | 309 | 1.63 | 1.23 | 16.9 |
| 4/29/2015 | 5:30:02 | 53.81 | 52.41 | 192 | 2.26 | 1.07 | 10.5 |
| 4/29/2015 | 5:30:04 | 54.13 | 52.73 | 161 | 1.66 | 1.17 | 8.8 |
| 4/29/2015 | 5:30:05 | 54.46 | 53.06 | 215 | 1.64 | 1.09 | 11.8 |
| 4/29/2015 | 5:30:11 | 54.79 | 53.39 | 29 | 1.68 | 1.24 | 1.6 |
| 4/29/2015 | 5:30:16 | 55.12 | 53.72 | 97 | 1.66 | 1.15 | 5.3 |
| 4/29/2015 | 5:30:19 | 55.45 | 54.05 | 124 | 1.68 | 1.33 | 6.8 |
| 4/29/2015 | 5:30:22 | 55.77 | 54.37 | 113 | 1.67 | 1.20 | 6.2 |
| 4/29/2015 | 5:30:27 | 56.10 | 54.70 | 58 | 1.70 | 1.21 | 3.2 |
| 4/29/2015 | 5:30:36 | 56.29 | 54.89 | 20 | 1.70 | 1.16 | 1.1 |

## J18 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:27:45

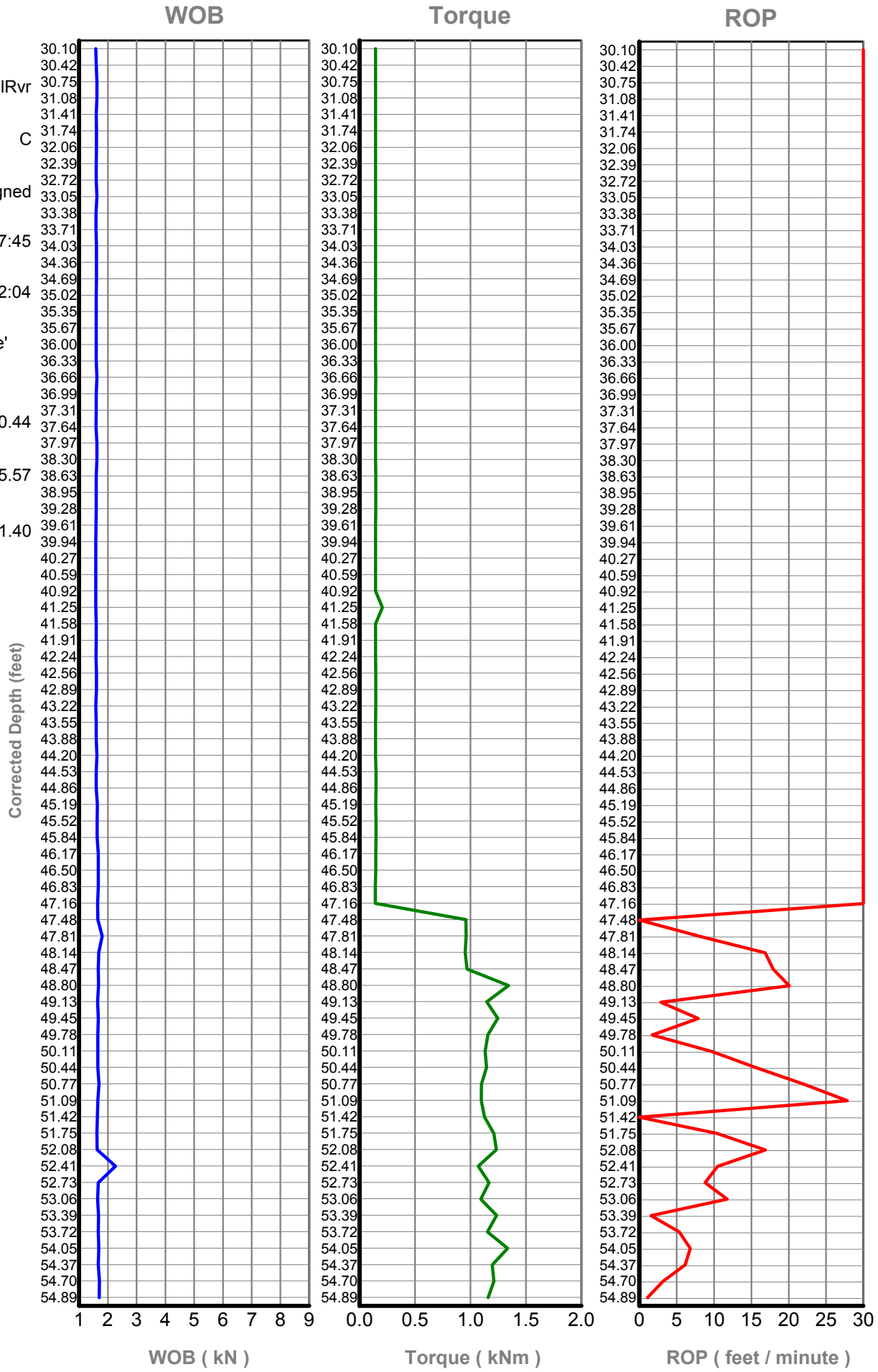
**End Date:**
4/29/2015 5:32:04

**Operator Note:**
'1.4 1.3 c Auto Complete'

**Northing:**
362,780.44

**Easting:**
246,655.57

**Tide (feet):**
1.40



## Hole: J19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:09:45 | 34.78 | 30.08 | 744 | 1.09 | 0.19 | 40.7 |
| 4/29/2015 20:09:46 | 35.11 | 30.41 | 754 | 1.09 | 0.19 | 41.3 |
| 4/29/2015 20:09:46 | 35.43 | 30.73 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 20:09:47 | 35.76 | 31.06 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 20:09:47 | 36.09 | 31.39 | 755 | 1.10 | 0.19 | 41.3 |
| 4/29/2015 20:09:47 | 36.42 | 31.72 | 755 | 1.09 | 0.19 | 41.3 |
| 4/29/2015 20:09:48 | 36.75 | 32.05 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 20:09:48 | 37.07 | 32.37 | 754 | 1.07 | 0.19 | 41.3 |
| 4/29/2015 20:09:49 | 37.40 | 32.70 | 754 | 1.07 | 0.19 | 41.3 |
| 4/29/2015 20:09:49 | 37.73 | 33.03 | 750 | 1.10 | 0.19 | 41.0 |
| 4/29/2015 20:09:50 | 38.06 | 33.36 | 757 | 1.08 | 0.19 | 41.4 |
| 4/29/2015 20:09:50 | 38.39 | 33.69 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 20:09:51 | 38.71 | 34.01 | 757 | 1.08 | 0.19 | 41.4 |
| 4/29/2015 20:09:51 | 39.04 | 34.34 | 760 | 1.09 | 0.19 | 41.6 |
| 4/29/2015 20:09:52 | 39.37 | 34.67 | 760 | 1.09 | 0.19 | 41.6 |
| 4/29/2015 20:09:52 | 39.70 | 35.00 | 763 | 1.07 | 0.19 | 41.7 |
| 4/29/2015 20:09:52 | 40.03 | 35.33 | 760 | 1.07 | 0.20 | 41.6 |
| 4/29/2015 20:09:53 | 40.35 | 35.65 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 20:09:54 | 40.68 | 35.98 | 753 | 1.08 | 0.19 | 41.2 |
| 4/29/2015 20:09:54 | 41.01 | 36.31 | 754 | 1.08 | 0.19 | 41.3 |
| 4/29/2015 20:09:55 | 41.34 | 36.64 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 20:09:55 | 41.67 | 36.97 | 749 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 20:09:56 | 41.99 | 37.29 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 20:09:56 | 42.32 | 37.62 | 751 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 20:09:57 | 42.65 | 37.95 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 20:09:57 | 42.98 | 38.28 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 20:09:57 | 43.31 | 38.61 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 20:09:58 | 43.64 | 38.94 | 744 | 1.08 | 0.19 | 40.7 |
| 4/29/2015 20:09:58 | 43.96 | 39.26 | 749 | 1.06 | 0.19 | 40.9 |
| 4/29/2015 20:09:59 | 44.29 | 39.59 | 746 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 20:09:59 | 44.62 | 39.92 | 746 | 1.10 | 0.19 | 40.8 |
| 4/29/2015 20:12:28 | 44.95 | 40.25 | 0 | 1.05 | 0.19 | 0.0 |
| 4/29/2015 20:12:29 | 45.28 | 40.58 | 114 | 1.25 | 0.18 | 6.3 |
| 4/29/2015 20:12:30 | 45.60 | 40.90 | 263 | 1.10 | 0.19 | 14.4 |
| 4/29/2015 20:12:30 | 45.93 | 41.23 | 411 | 1.03 | 0.19 | 22.5 |
| 4/29/2015 20:12:31 | 46.26 | 41.56 | 561 | 1.19 | 0.19 | 30.7 |
| 4/29/2015 20:12:31 | 46.59 | 41.89 | 704 | 0.99 | 0.19 | 38.5 |
| 4/29/2015 20:12:32 | 46.92 | 42.22 | 731 | 0.92 | 0.19 | 40.0 |
| 4/29/2015 20:12:32 | 47.24 | 42.54 | 731 | 0.92 | 0.19 | 40.0 |
| 4/29/2015 20:12:32 | 47.57 | 42.87 | 738 | 1.05 | 0.19 | 40.3 |
| 4/29/2015 20:12:33 | 47.90 | 43.20 | 733 | 1.26 | 0.19 | 40.1 |
| 4/29/2015 20:12:33 | 48.23 | 43.53 | 715 | 1.15 | 0.19 | 39.1 |
| 4/29/2015 20:13:21 | 48.56 | 43.86 | 0 | 1.01 | 0.16 | 0.0 |
| 4/29/2015 20:13:46 | 48.88 | 44.18 | 9 | 1.39 | 1.73 | 0.5 |
| 4/29/2015 20:13:47 | 49.21 | 44.51 | 86 | 1.10 | 1.81 | 4.7 |
| 4/29/2015 20:13:54 | 49.54 | 44.84 | 56 | 1.45 | 1.09 | 3.1 |
| 4/29/2015 20:13:54 | 49.87 | 45.17 | 56 | 1.70 | 1.23 | 3.1 |
| 4/29/2015 20:13:55 | 50.20 | 45.50 | 146 | 1.70 | 1.27 | 8.0 |
| 4/29/2015 20:13:56 | 50.53 | 45.83 | 235 | 1.74 | 1.28 | 12.8 |
| 4/29/2015 20:14:08 | 50.85 | 46.15 | 47 | 1.98 | 1.22 | 2.6 |
| 4/29/2015 20:14:09 | 51.18 | 46.48 | 175 | 1.87 | 1.34 | 9.6 |
| 4/29/2015 20:14:09 | 51.51 | 46.81 | 296 | 0.99 | 1.21 | 16.2 |
| 4/29/2015 20:14:21 | 51.84 | 47.14 | 37 | 1.02 | 1.06 | 2.0 |
| 4/29/2015 20:14:29 | 52.17 | 47.47 | 42 | 1.04 | 0.96 | 2.3 |
| 4/29/2015 20:15:11 | 52.49 | 47.79 | 25 | 1.02 | 1.11 | 1.3 |
| 4/29/2015 20:15:17 | 52.82 | 48.12 | 67 | 1.02 | 0.94 | 3.7 |
| 4/29/2015 20:15:27 | 53.15 | 48.45 | 43 | 1.01 | 0.94 | 2.4 |
| 4/29/2015 20:15:32 | 53.34 | 48.64 | 38 | 1.17 | 1.13 | 2.1 |

## J19 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:05:34

**End Date:**
4/29/2015 20:17:16

**Operator Note:**
'4.7 4.4 b Auto Complete'

**Northing:**
362,354.20

**Easting:**
246,237.42

**Tide (feet):**
4.70



## Hole: J2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 17:55:31 | 31.50 | 30.10 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/29/2015 17:55:31 | 31.82 | 30.42 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/29/2015 17:55:31 | 32.15 | 30.75 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 17:55:32 | 32.48 | 31.08 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:32 | 32.81 | 31.41 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:32 | 33.14 | 31.74 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 17:55:33 | 33.46 | 32.06 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 17:55:33 | 33.79 | 32.39 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/29/2015 17:55:34 | 34.12 | 32.72 | 1,075 | 0.07 | 0.38 | 58.8 |
| 4/29/2015 17:55:34 | 34.45 | 33.05 | 1,075 | 0.07 | 0.38 | 58.8 |
| 4/29/2015 17:55:34 | 34.78 | 33.38 | 1,087 | 0.33 | 0.39 | 59.4 |
| 4/29/2015 17:55:35 | 35.11 | 33.71 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 17:55:35 | 35.43 | 34.03 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 17:55:35 | 35.76 | 34.36 | 1,081 | 0.32 | 0.39 | 59.1 |
| 4/29/2015 17:55:36 | 36.09 | 34.69 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:36 | 36.42 | 35.02 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:36 | 36.75 | 35.35 | 1,081 | 0.33 | 0.39 | 59.1 |
| 4/29/2015 17:55:37 | 37.07 | 35.67 | 1,081 | 0.33 | 0.39 | 59.1 |
| 4/29/2015 17:55:37 | 37.40 | 36.00 | 1,075 | 0.33 | 0.38 | 58.8 |
| 4/29/2015 17:55:37 | 37.73 | 36.33 | 1,075 | 0.33 | 0.37 | 58.8 |
| 4/29/2015 17:55:38 | 38.06 | 36.66 | 1,075 | 0.33 | 0.37 | 58.8 |
| 4/29/2015 17:55:38 | 38.39 | 36.99 | 1,072 | 0.33 | 0.39 | 58.6 |
| 4/29/2015 17:55:38 | 38.71 | 37.31 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:39 | 39.04 | 37.64 | 1,081 | 0.33 | 0.38 | 59.1 |
| 4/29/2015 17:55:39 | 39.37 | 37.97 | 1,081 | 0.32 | 0.38 | 59.1 |
| 4/29/2015 17:55:39 | 39.70 | 38.30 | 1,081 | 0.32 | 0.38 | 59.1 |
| 4/29/2015 17:55:39 | 40.03 | 38.63 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 17:55:40 | 40.35 | 38.95 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/29/2015 17:55:40 | 40.68 | 39.28 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/29/2015 17:55:40 | 41.01 | 39.61 | 1,090 | 0.32 | 0.39 | 59.6 |
| 4/29/2015 17:55:41 | 41.34 | 39.94 | 1,087 | 0.33 | 0.38 | 59.4 |
| 4/29/2015 17:55:41 | 41.67 | 40.27 | 1,087 | 0.33 | 0.38 | 59.4 |
| 4/29/2015 17:55:41 | 41.99 | 40.59 | 1,087 | 0.32 | 0.38 | 59.4 |
| 4/29/2015 17:55:42 | 42.32 | 40.92 | 1,087 | 0.32 | 0.38 | 59.4 |
| 4/29/2015 17:55:42 | 42.65 | 41.25 | 1,087 | 0.32 | 0.38 | 59.4 |
| 4/29/2015 17:55:42 | 42.98 | 41.58 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 17:55:43 | 43.31 | 41.91 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/29/2015 17:55:43 | 43.64 | 42.24 | 1,091 | 0.33 | 0.39 | 59.7 |
| 4/29/2015 17:55:44 | 43.96 | 42.56 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/29/2015 17:55:44 | 44.29 | 42.89 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/29/2015 17:55:44 | 44.62 | 43.22 | 1,082 | 0.31 | 0.40 | 59.2 |
| 4/29/2015 17:55:55 | 44.95 | 43.55 | 0 | 4.59 | 0.45 | 0.0 |
| 4/29/2015 17:55:56 | 45.28 | 43.88 | 76 | 3.28 | 0.42 | 4.2 |
| 4/29/2015 17:55:56 | 45.60 | 44.20 | 228 | 4.11 | 0.47 | 12.5 |
| 4/29/2015 17:56:02 | 45.93 | 44.53 | 57 | 3.03 | 0.45 | 3.1 |
| 4/29/2015 17:56:09 | 46.26 | 44.86 | 0 | 2.61 | 0.40 | 0.0 |
| 4/29/2015 17:56:10 | 46.59 | 45.19 | 74 | 3.21 | 0.44 | 4.1 |
| 4/29/2015 17:56:11 | 46.92 | 45.52 | 177 | 2.92 | 0.44 | 9.7 |
| 4/29/2015 17:56:12 | 47.24 | 45.84 | 340 | 3.21 | 0.44 | 18.6 |
| 4/29/2015 17:56:13 | 47.57 | 46.17 | 407 | 4.09 | 0.48 | 22.3 |
| 4/29/2015 17:56:16 | 47.90 | 46.50 | 193 | 3.54 | 0.43 | 10.5 |
| 4/29/2015 17:56:17 | 48.23 | 46.83 | 164 | 2.89 | 0.46 | 9.0 |
| 4/29/2015 17:56:18 | 48.56 | 47.16 | 236 | 2.56 | 0.44 | 12.9 |
| 4/29/2015 17:56:19 | 48.88 | 47.48 | 344 | 3.55 | 0.44 | 18.8 |
| 4/29/2015 17:56:20 | 49.21 | 47.81 | 278 | 5.59 | 0.47 | 15.2 |
| 4/29/2015 17:58:35 | 49.54 | 48.14 | 0 | 3.60 | 0.43 | 0.0 |
| 4/29/2015 17:58:45 | 49.87 | 48.47 | 0 | 3.09 | 0.45 | 0.0 |
| 4/29/2015 17:58:51 | 50.20 | 48.80 | 42 | 3.94 | 0.41 | 2.3 |
| 4/29/2015 17:58:55 | 50.53 | 49.13 | 94 | 4.16 | 0.46 | 5.2 |
| 4/29/2015 17:58:58 | 50.85 | 49.45 | 107 | 4.10 | 0.43 | 5.9 |
| 4/29/2015 17:58:58 | 51.18 | 49.78 | 144 | 3.19 | 0.43 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 17:58:59 | 51.51 | 50.11 | 359 | 2.81 | 0.42 | 19.6 |
| 4/29/2015 | 17:59:00 | 51.84 | 50.44 | 487 | 2.14 | 0.39 | 26.6 |
| 4/29/2015 | 17:59:00 | 52.17 | 50.77 | 487 | 2.14 | 0.39 | 26.6 |
| 4/29/2015 | 17:59:02 | 52.49 | 51.09 | 405 | 3.35 | 0.43 | 22.1 |
| 4/29/2015 | 17:59:03 | 52.82 | 51.42 | 185 | 3.12 | 0.45 | 10.1 |
| 4/29/2015 | 17:59:04 | 53.15 | 51.75 | 356 | 3.87 | 0.43 | 19.5 |
| 4/29/2015 | 17:59:05 | 53.48 | 52.08 | 353 | 3.53 | 0.43 | 19.3 |
| 4/29/2015 | 17:59:07 | 53.81 | 52.41 | 246 | 2.46 | 0.43 | 13.4 |
| 4/29/2015 | 17:59:08 | 54.13 | 52.73 | 243 | 2.55 | 0.44 | 13.3 |
| 4/29/2015 | 17:59:08 | 54.46 | 53.06 | 337 | 2.72 | 0.45 | 18.4 |
| 4/29/2015 | 17:59:11 | 54.79 | 53.39 | 186 | 2.71 | 0.47 | 10.1 |
| 4/29/2015 | 17:59:15 | 55.12 | 53.72 | 52 | 2.88 | 0.47 | 2.9 |
| 4/29/2015 | 17:59:18 | 55.45 | 54.05 | 148 | 3.12 | 0.47 | 8.1 |
| 4/29/2015 | 17:59:20 | 55.77 | 54.37 | 133 | 3.52 | 0.45 | 7.3 |
| 4/29/2015 | 17:59:23 | 56.00 | 54.60 | 139 | 3.33 | 0.46 | 7.6 |

## J2 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 17:53:57

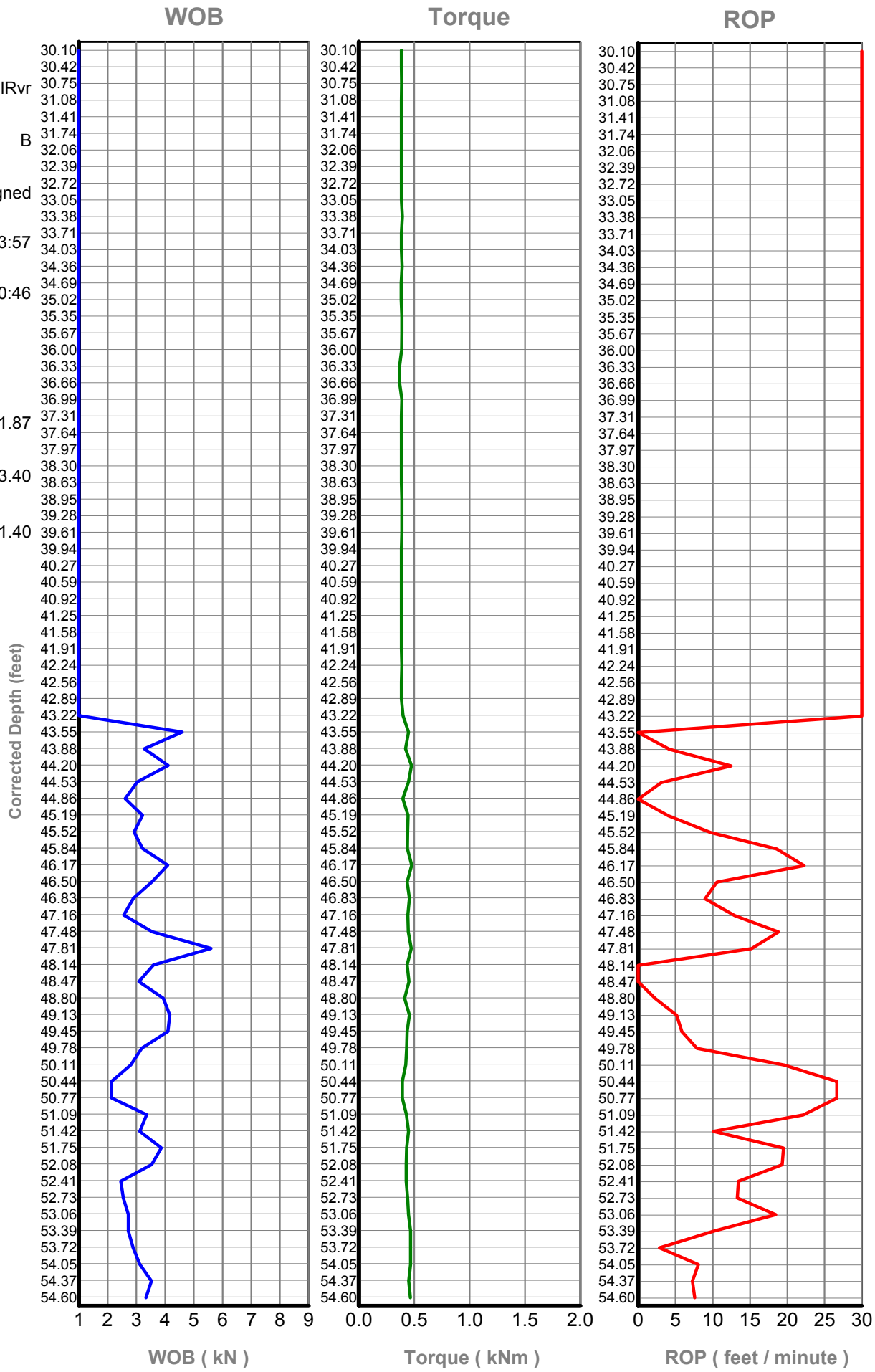
**End Date:**
4/29/2015 18:00:46

**Operator Note:**
'1.4 1.0 b No rock'

**Northing:**
362,521.87

**Easting:**
246,203.40

**Tide (feet):**
1.40



## Hole: J20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:07:38 | 34.78 | 30.08 | 1,073 | 0.33 | 0.40 | 58.6 |
| 4/29/2015 20:07:39 | 35.11 | 30.41 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 20:07:39 | 35.43 | 30.73 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 20:07:39 | 35.76 | 31.06 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:40 | 36.09 | 31.39 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:40 | 36.42 | 31.72 | 1,064 | 0.33 | 0.40 | 58.2 |
| 4/29/2015 20:07:41 | 36.75 | 32.05 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:41 | 37.07 | 32.37 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:41 | 37.40 | 32.70 | 1,064 | 0.33 | 0.39 | 58.2 |
| 4/29/2015 20:07:42 | 37.73 | 33.03 | 1,064 | 0.33 | 0.40 | 58.2 |
| 4/29/2015 20:07:42 | 38.06 | 33.36 | 1,064 | 0.33 | 0.40 | 58.2 |
| 4/29/2015 20:07:42 | 38.39 | 33.69 | 1,057 | 0.33 | 0.39 | 57.8 |
| 4/29/2015 20:07:43 | 38.71 | 34.01 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 20:07:43 | 39.04 | 34.34 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 20:07:43 | 39.37 | 34.67 | 1,076 | 0.33 | 0.39 | 58.9 |
| 4/29/2015 20:07:44 | 39.70 | 35.00 | 1,073 | 0.33 | 0.39 | 58.6 |
| 4/29/2015 20:07:44 | 40.03 | 35.33 | 1,073 | 0.33 | 0.39 | 58.6 |
| 4/29/2015 20:07:44 | 40.35 | 35.65 | 1,066 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:45 | 40.68 | 35.98 | 1,066 | 0.33 | 0.39 | 58.3 |
| 4/29/2015 20:07:45 | 41.01 | 36.31 | 1,079 | 0.33 | 0.39 | 59.0 |
| 4/29/2015 20:07:45 | 41.34 | 36.64 | 1,076 | 0.33 | 0.39 | 58.8 |
| 4/29/2015 20:07:46 | 41.67 | 36.97 | 1,076 | 0.33 | 0.39 | 58.8 |
| 4/29/2015 20:07:46 | 41.99 | 37.29 | 1,069 | 0.33 | 0.39 | 58.5 |
| 4/29/2015 20:07:46 | 42.32 | 37.62 | 1,061 | 0.33 | 0.39 | 58.0 |
| 4/29/2015 20:07:47 | 42.65 | 37.95 | 1,061 | 0.33 | 0.39 | 58.0 |
| 4/29/2015 20:07:47 | 42.98 | 38.28 | 1,086 | 0.33 | 0.40 | 59.4 |
| 4/29/2015 20:07:47 | 43.31 | 38.61 | 1,083 | 0.33 | 0.39 | 59.2 |
| 4/29/2015 20:07:48 | 43.64 | 38.94 | 1,083 | 0.33 | 0.39 | 59.2 |
| 4/29/2015 20:07:48 | 43.96 | 39.26 | 1,059 | 0.34 | 0.40 | 57.9 |
| 4/29/2015 20:07:48 | 44.29 | 39.59 | 1,059 | 0.34 | 0.40 | 57.9 |
| 4/29/2015 20:07:48 | 44.62 | 39.92 | 1,059 | 0.33 | 0.39 | 57.9 |
| 4/29/2015 20:07:49 | 44.95 | 40.25 | 1,076 | 0.33 | 0.39 | 58.8 |
| 4/29/2015 20:07:49 | 45.28 | 40.58 | 1,076 | 0.33 | 0.39 | 58.8 |
| 4/29/2015 20:07:49 | 45.60 | 40.90 | 1,084 | 0.33 | 0.41 | 59.3 |
| 4/29/2015 20:07:50 | 45.93 | 41.23 | 1,074 | 0.35 | 0.39 | 58.7 |
| 4/29/2015 20:07:50 | 46.26 | 41.56 | 1,074 | 0.35 | 0.39 | 58.7 |
| 4/29/2015 20:07:50 | 46.59 | 41.89 | 1,071 | 0.33 | 0.39 | 58.6 |
| 4/29/2015 20:07:51 | 46.92 | 42.22 | 1,094 | 0.33 | 0.39 | 59.8 |
| 4/29/2015 20:07:52 | 47.24 | 42.54 | 1,094 | 0.33 | 0.39 | 59.8 |
| 4/29/2015 20:07:52 | 47.57 | 42.87 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/29/2015 20:07:52 | 47.90 | 43.20 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/29/2015 20:07:52 | 48.23 | 43.53 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/29/2015 20:07:53 | 48.56 | 43.86 | 1,080 | 0.33 | 0.39 | 59.1 |
| 4/29/2015 20:07:53 | 48.88 | 44.18 | 1,080 | 0.33 | 0.39 | 59.1 |
| 4/29/2015 20:07:53 | 49.21 | 44.51 | 1,093 | 0.33 | 0.41 | 59.8 |
| 4/29/2015 20:07:58 | 49.54 | 44.84 | 0 | 3.42 | 0.43 | 0.0 |
| 4/29/2015 20:07:59 | 49.87 | 45.17 | 180 | 3.45 | 0.43 | 9.8 |
| 4/29/2015 20:08:11 | 50.20 | 45.50 | 18 | 4.62 | 0.43 | 1.0 |
| 4/29/2015 20:08:14 | 50.53 | 45.83 | 0 | 3.15 | 0.43 | 0.0 |
| 4/29/2015 20:08:17 | 50.85 | 46.15 | 206 | 4.00 | 0.47 | 11.3 |
| 4/29/2015 20:08:19 | 51.18 | 46.48 | 159 | 3.90 | 0.47 | 8.7 |
| 4/29/2015 20:08:20 | 51.51 | 46.81 | 184 | 3.54 | 0.45 | 10.1 |
| 4/29/2015 20:08:21 | 51.84 | 47.14 | 292 | 3.43 | 0.44 | 16.0 |
| 4/29/2015 20:08:21 | 52.17 | 47.47 | 351 | 3.09 | 0.43 | 19.2 |
| 4/29/2015 20:08:24 | 52.49 | 47.79 | 153 | 3.68 | 0.44 | 8.4 |
| 4/29/2015 20:08:25 | 52.82 | 48.12 | 240 | 3.31 | 0.43 | 13.1 |
| 4/29/2015 20:08:26 | 53.15 | 48.45 | 367 | 3.19 | 0.43 | 20.1 |
| 4/29/2015 20:08:26 | 53.48 | 48.78 | 367 | 2.44 | 0.41 | 20.1 |
| 4/29/2015 20:08:27 | 53.81 | 49.11 | 502 | 2.59 | 0.43 | 27.5 |
| 4/29/2015 20:08:28 | 54.13 | 49.43 | 525 | 5.33 | 0.52 | 28.7 |
| 4/29/2015 20:08:29 | 54.46 | 49.76 | 421 | 3.57 | 0.47 | 23.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 20:08:34 | 54.79 | 50.09 | 70 | 3.41 | 0.47 | 3.9 |
| 4/29/2015 | 20:08:41 | 55.12 | 50.42 | 47 | 3.22 | 0.48 | 2.5 |
| 4/29/2015 | 20:08:49 | 55.45 | 50.75 | 40 | 2.88 | 0.47 | 2.2 |
| 4/29/2015 | 20:08:58 | 55.77 | 51.07 | 41 | 3.22 | 0.48 | 2.3 |
| 4/29/2015 | 20:08:58 | 55.81 | 51.11 | 44 | 2.90 | 0.48 | 2.4 |

## J20 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:06:05

**End Date:**
4/29/2015 20:10:16

**Operator Note:**
'4.7 4.4b Auto Complete'

**Northing:**
362,401.23

**Easting:**
246,295.85

**Tide (feet):**
4.70



## Hole: J21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:06:51 | 34.78 | 30.08 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:52 | 35.11 | 30.41 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:52 | 35.43 | 30.73 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 20:06:53 | 35.76 | 31.06 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:53 | 36.09 | 31.39 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:53 | 36.42 | 31.72 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:54 | 36.75 | 32.05 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:54 | 37.07 | 32.37 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:06:54 | 37.40 | 32.70 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 20:06:55 | 37.73 | 33.03 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 20:06:55 | 38.06 | 33.36 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 20:06:55 | 38.39 | 33.69 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 20:06:56 | 38.71 | 34.01 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 20:06:56 | 39.04 | 34.34 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 20:06:56 | 39.37 | 34.67 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 20:06:57 | 39.70 | 35.00 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 20:06:57 | 40.03 | 35.33 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/29/2015 20:06:57 | 40.35 | 35.65 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/29/2015 20:06:57 | 40.68 | 35.98 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 20:06:58 | 41.01 | 36.31 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 20:06:58 | 41.34 | 36.64 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 20:06:58 | 41.67 | 36.97 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 20:06:59 | 41.99 | 37.29 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 20:06:59 | 42.32 | 37.62 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 20:06:59 | 42.65 | 37.95 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 20:07:00 | 42.98 | 38.28 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 20:07:00 | 43.31 | 38.61 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 20:07:00 | 43.64 | 38.94 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 20:07:01 | 43.96 | 39.26 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 20:07:01 | 44.29 | 39.59 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 20:07:01 | 44.62 | 39.92 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 20:07:02 | 44.95 | 40.25 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 20:07:02 | 45.28 | 40.58 | 1,074 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 20:07:02 | 45.60 | 40.90 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:07:03 | 45.93 | 41.23 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 20:07:03 | 46.26 | 41.56 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 20:07:03 | 46.59 | 41.89 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 20:07:04 | 46.92 | 42.22 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 20:07:04 | 47.24 | 42.54 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 20:07:05 | 47.57 | 42.87 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 20:07:05 | 47.90 | 43.20 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 20:07:05 | 48.23 | 43.53 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 20:07:24 | 48.56 | 43.86 | 43 | 1.14 | 0.29 | 2.3 |
| 4/29/2015 20:07:25 | 48.88 | 44.18 | 184 | 1.14 | 0.29 | 10.1 |
| 4/29/2015 20:07:25 | 49.21 | 44.51 | 184 | 1.14 | 0.29 | 10.1 |
| 4/29/2015 20:07:27 | 49.54 | 44.84 | 321 | 1.14 | 0.29 | 17.6 |
| 4/29/2015 20:07:27 | 49.87 | 45.17 | 307 | 1.14 | 0.29 | 16.8 |
| 4/29/2015 20:07:33 | 50.20 | 45.50 | 59 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 20:07:34 | 50.53 | 45.83 | 59 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 20:07:34 | 50.85 | 46.15 | 173 | 1.14 | 0.29 | 9.5 |
| 4/29/2015 20:07:38 | 51.18 | 46.48 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 20:07:46 | 51.51 | 46.81 | 84 | 1.14 | 0.29 | 4.6 |
| 4/29/2015 20:07:49 | 51.84 | 47.14 | 116 | 1.14 | 0.29 | 6.3 |
| 4/29/2015 20:07:52 | 52.17 | 47.47 | 177 | 1.14 | 0.29 | 9.7 |
| 4/29/2015 20:07:53 | 52.49 | 47.79 | 197 | 1.14 | 0.29 | 10.8 |
| 4/29/2015 20:07:59 | 52.82 | 48.12 | 48 | 1.14 | 0.29 | 2.6 |
| 4/29/2015 20:08:08 | 53.15 | 48.45 | 44 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 20:08:20 | 53.48 | 48.78 | 26 | 1.14 | 0.29 | 1.4 |
| 4/29/2015 20:08:31 | 53.81 | 49.11 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 20:08:34 | 53.91 | 49.21 | 38 | 1.14 | 0.29 | 2.1 |

## J21 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:05:37

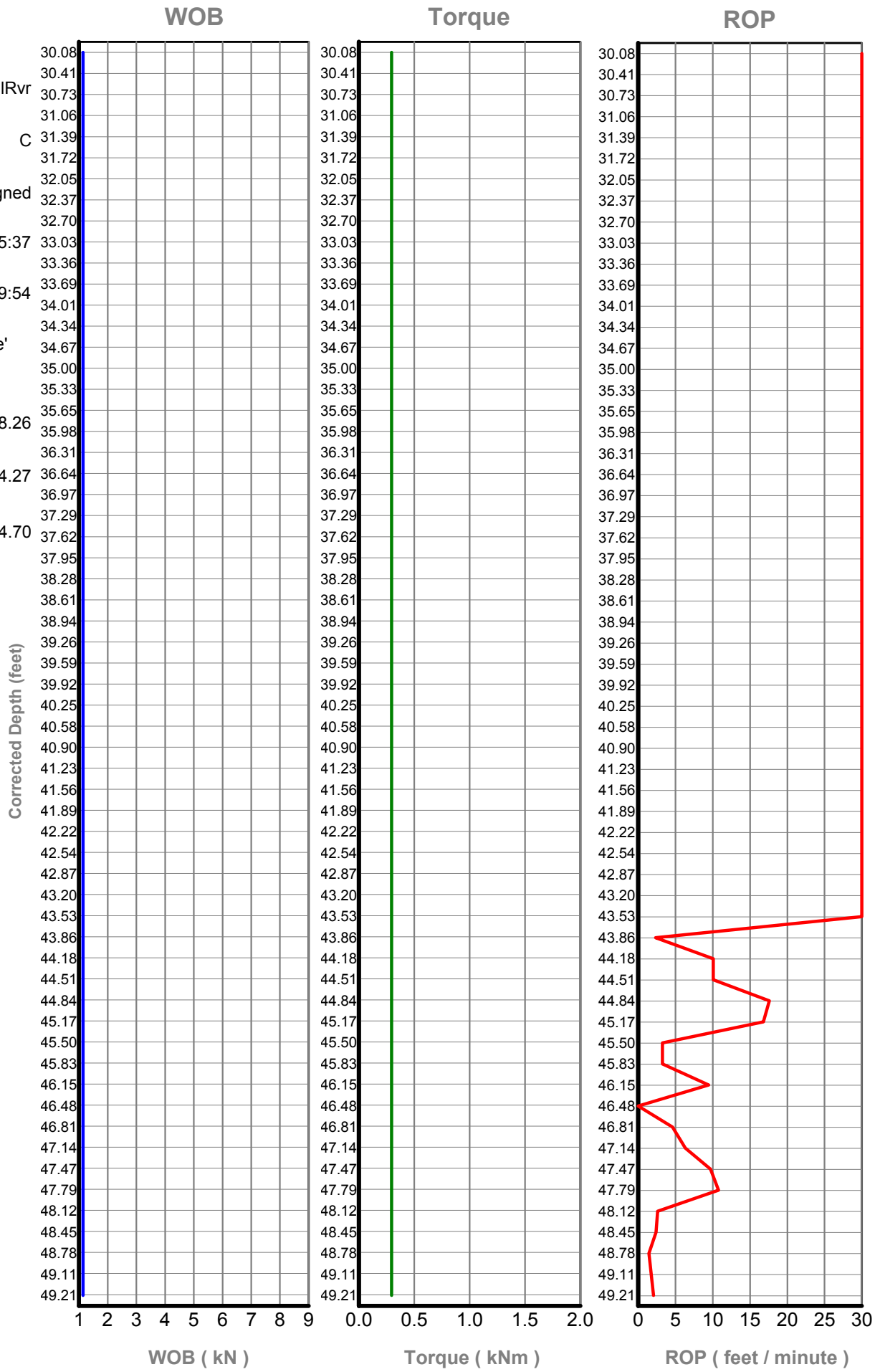
**End Date:**
4/29/2015 20:09:54

**Operator Note:**
'4.7 4.4 c Auto Complete'

**Northing:**
362,448.26

**Easting:**
246,354.27

**Tide (feet):**
4.70



## Hole: J22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:45:21 | 33.79 | 30.29 | 744 | 1.07 | 0.20 | 40.7 |
| 4/29/2015 6:45:21 | 34.12 | 30.62 | 754 | 1.07 | 0.20 | 41.3 |
| 4/29/2015 6:45:22 | 34.45 | 30.95 | 749 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 6:45:22 | 34.78 | 31.28 | 749 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 6:45:22 | 35.11 | 31.61 | 732 | 1.09 | 0.20 | 40.0 |
| 4/29/2015 6:45:23 | 35.43 | 31.93 | 741 | 1.07 | 0.20 | 40.5 |
| 4/29/2015 6:45:23 | 35.76 | 32.26 | 745 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 6:45:24 | 36.09 | 32.59 | 731 | 1.07 | 0.19 | 40.0 |
| 4/29/2015 6:45:24 | 36.42 | 32.92 | 726 | 1.09 | 0.19 | 39.7 |
| 4/29/2015 6:45:25 | 36.75 | 33.25 | 747 | 1.08 | 0.20 | 40.9 |
| 4/29/2015 6:45:25 | 37.07 | 33.57 | 747 | 1.07 | 0.19 | 40.9 |
| 4/29/2015 6:45:26 | 37.40 | 33.90 | 751 | 1.07 | 0.19 | 41.1 |
| 4/29/2015 6:45:26 | 37.73 | 34.23 | 749 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 6:45:27 | 38.06 | 34.56 | 755 | 1.08 | 0.20 | 41.3 |
| 4/29/2015 6:45:27 | 38.39 | 34.89 | 755 | 1.08 | 0.20 | 41.3 |
| 4/29/2015 6:45:27 | 38.71 | 35.21 | 771 | 1.07 | 0.20 | 42.2 |
| 4/29/2015 6:45:28 | 39.04 | 35.54 | 765 | 1.07 | 0.20 | 41.8 |
| 4/29/2015 6:45:29 | 39.37 | 35.87 | 748 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 6:45:29 | 39.70 | 36.20 | 742 | 1.08 | 0.20 | 40.5 |
| 4/29/2015 6:45:30 | 40.03 | 36.53 | 742 | 1.07 | 0.20 | 40.5 |
| 4/29/2015 6:45:30 | 40.35 | 36.85 | 744 | 1.08 | 0.19 | 40.7 |
| 4/29/2015 6:45:31 | 40.68 | 37.18 | 736 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 6:45:31 | 41.01 | 37.51 | 736 | 1.08 | 0.20 | 40.3 |
| 4/29/2015 6:45:32 | 41.34 | 37.84 | 746 | 1.07 | 0.20 | 40.8 |
| 4/29/2015 6:45:32 | 41.67 | 38.17 | 747 | 1.07 | 0.20 | 40.8 |
| 4/29/2015 6:45:33 | 41.99 | 38.49 | 740 | 1.08 | 0.19 | 40.5 |
| 4/29/2015 6:45:33 | 42.32 | 38.82 | 740 | 1.08 | 0.19 | 40.5 |
| 4/29/2015 6:45:33 | 42.65 | 39.15 | 747 | 1.07 | 0.20 | 40.9 |
| 4/29/2015 6:45:34 | 42.98 | 39.48 | 747 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 6:45:34 | 43.31 | 39.81 | 747 | 1.07 | 0.19 | 40.9 |
| 4/29/2015 6:45:35 | 43.64 | 40.14 | 735 | 1.08 | 0.20 | 40.2 |
| 4/29/2015 6:45:35 | 43.96 | 40.46 | 752 | 1.07 | 0.19 | 41.1 |
| 4/29/2015 6:45:36 | 44.29 | 40.79 | 752 | 1.08 | 0.20 | 41.1 |
| 4/29/2015 6:45:36 | 44.62 | 41.12 | 756 | 1.08 | 0.20 | 41.3 |
| 4/29/2015 6:45:37 | 44.95 | 41.45 | 749 | 1.05 | 0.19 | 40.9 |
| 4/29/2015 6:45:37 | 45.28 | 41.78 | 764 | 1.08 | 0.19 | 41.8 |
| 4/29/2015 6:45:38 | 45.60 | 42.10 | 758 | 1.07 | 0.19 | 41.4 |
| 4/29/2015 6:45:38 | 45.93 | 42.43 | 750 | 1.07 | 0.19 | 41.0 |
| 4/29/2015 6:45:39 | 46.26 | 42.76 | 743 | 1.07 | 0.19 | 40.6 |
| 4/29/2015 6:45:40 | 46.59 | 43.09 | 743 | 1.07 | 0.19 | 40.6 |
| 4/29/2015 6:45:40 | 46.92 | 43.42 | 738 | 1.07 | 0.19 | 40.4 |
| 4/29/2015 6:45:40 | 47.24 | 43.74 | 743 | 1.06 | 0.20 | 40.6 |
| 4/29/2015 6:45:41 | 47.57 | 44.07 | 743 | 1.07 | 0.19 | 40.6 |
| 4/29/2015 6:45:41 | 47.90 | 44.40 | 743 | 1.07 | 0.19 | 40.6 |
| 4/29/2015 6:45:42 | 48.23 | 44.73 | 743 | 1.07 | 0.19 | 40.6 |
| 4/29/2015 6:45:42 | 48.56 | 45.06 | 743 | 1.08 | 0.20 | 40.6 |
| 4/29/2015 6:45:43 | 48.88 | 45.38 | 740 | 1.05 | 0.19 | 40.5 |
| 4/29/2015 6:45:43 | 49.21 | 45.71 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 6:45:44 | 49.54 | 46.04 | 731 | 1.08 | 0.20 | 40.0 |
| 4/29/2015 6:45:44 | 49.87 | 46.37 | 740 | 1.08 | 0.19 | 40.5 |
| 4/29/2015 6:45:45 | 50.20 | 46.70 | 740 | 1.07 | 0.20 | 40.5 |
| 4/29/2015 6:45:45 | 50.53 | 47.03 | 740 | 1.07 | 0.19 | 40.5 |
| 4/29/2015 6:45:46 | 50.85 | 47.35 | 740 | 1.07 | 0.19 | 40.5 |
| 4/29/2015 6:45:46 | 51.18 | 47.68 | 740 | 1.07 | 0.19 | 40.5 |
| 4/29/2015 6:45:46 | 51.51 | 48.01 | 742 | 1.07 | 0.20 | 40.6 |
| 4/29/2015 6:45:47 | 51.84 | 48.34 | 734 | 1.07 | 0.19 | 40.1 |
| 4/29/2015 6:45:47 | 52.17 | 48.67 | 734 | 1.06 | 0.19 | 40.1 |
| 4/29/2015 6:45:48 | 52.49 | 48.99 | 727 | 1.08 | 0.26 | 39.8 |
| 4/29/2015 6:45:48 | 52.82 | 49.32 | 731 | 1.07 | 0.20 | 40.0 |
| 4/29/2015 6:45:49 | 53.15 | 49.65 | 731 | 1.09 | 0.19 | 40.0 |
| 4/29/2015 6:46:26 | 53.48 | 49.98 | 0 | 1.58 | 0.80 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:46:27 | 53.81 | 50.31 | 113 | 1.07 | 1.08 | 6.2 |
| 4/29/2015 | 6:46:28 | 54.13 | 50.63 | 223 | 1.03 | 1.01 | 12.2 |
| 4/29/2015 | 6:46:36 | 54.46 | 50.96 | 0 | 1.57 | 1.36 | 0.0 |
| 4/29/2015 | 6:46:37 | 54.79 | 51.29 | 146 | 1.11 | 0.98 | 8.0 |
| 4/29/2015 | 6:46:39 | 55.12 | 51.62 | 235 | 1.05 | 1.07 | 12.8 |
| 4/29/2015 | 6:46:43 | 55.45 | 51.95 | 99 | 1.00 | 1.25 | 5.4 |
| 4/29/2015 | 6:46:46 | 55.77 | 52.27 | 104 | 1.07 | 1.17 | 5.7 |
| 4/29/2015 | 6:46:49 | 56.10 | 52.60 | 96 | 1.09 | 1.16 | 5.3 |
| 4/29/2015 | 6:46:53 | 56.43 | 52.93 | 104 | 1.08 | 1.06 | 5.7 |
| 4/29/2015 | 6:46:57 | 56.76 | 53.26 | 81 | 1.00 | 1.03 | 4.4 |
| 4/29/2015 | 6:47:02 | 57.09 | 53.59 | 81 | 1.08 | 1.08 | 4.4 |
| 4/29/2015 | 6:47:07 | 57.41 | 53.91 | 78 | 1.00 | 1.12 | 4.3 |
| 4/29/2015 | 6:47:11 | 57.74 | 54.24 | 84 | 1.00 | 1.05 | 4.6 |
| 4/29/2015 | 6:47:15 | 57.90 | 54.40 | 54 | 1.15 | 1.07 | 2.9 |

## J22 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 6:43:07

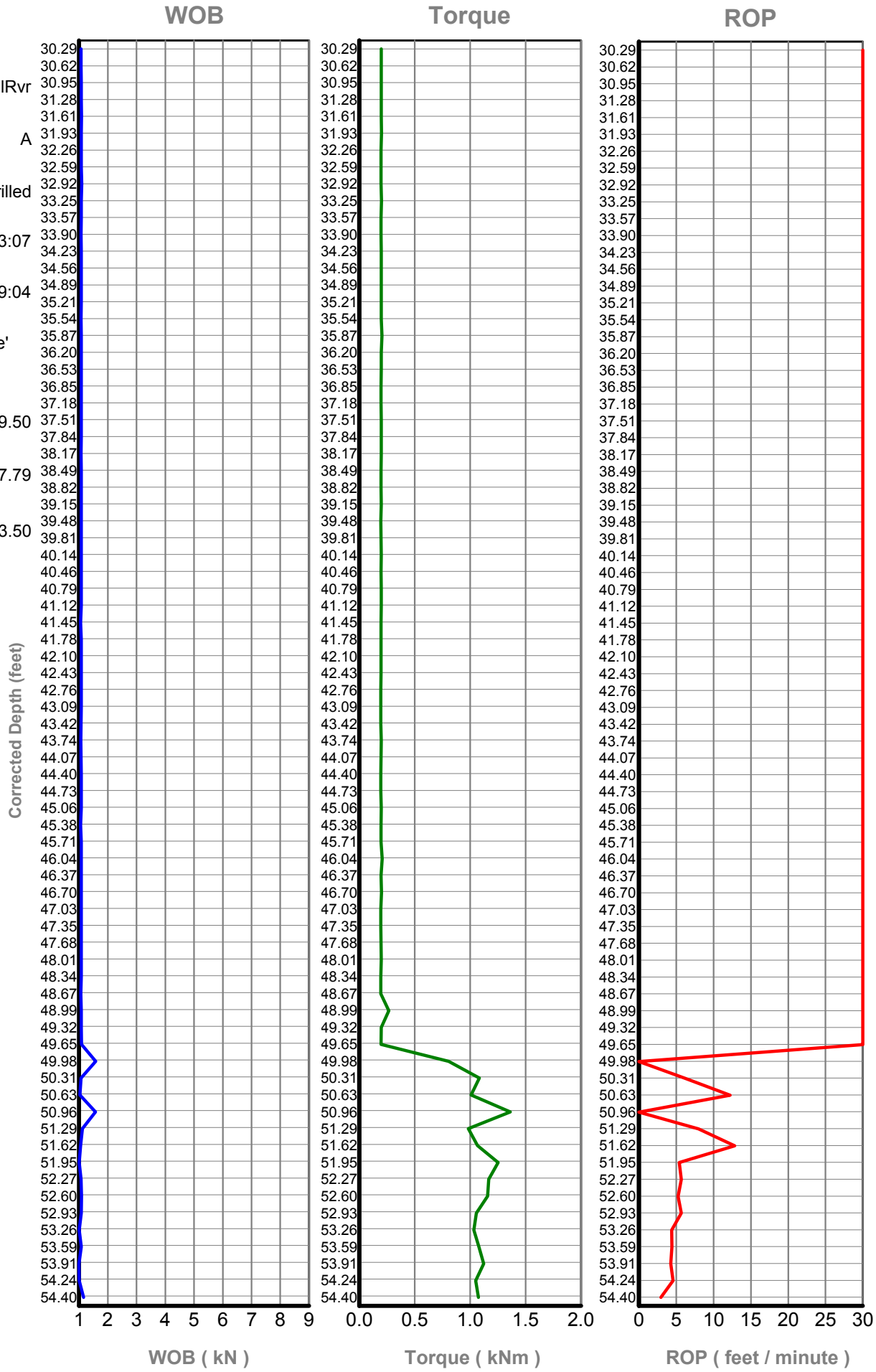
**End Date:**
4/29/2015 7:59:04

**Operator Note:**
'3.5 2.9 b Auto Complete'

**Northing:**
362,499.50

**Easting:**
246,417.79

**Tide (feet):**
3.50



## Hole: J23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:40:20 | 33.46 | 30.06 | 1,089 | 0.32 | 0.37 | 59.6 |
| 4/29/2015 6:40:20 | 33.79 | 30.39 | 1,053 | 0.32 | 0.38 | 57.6 |
| 4/29/2015 6:40:21 | 34.12 | 30.72 | 1,053 | 0.32 | 0.38 | 57.6 |
| 4/29/2015 6:40:21 | 34.45 | 31.05 | 1,053 | 0.31 | 0.38 | 57.6 |
| 4/29/2015 6:40:21 | 34.78 | 31.38 | 1,053 | 0.31 | 0.38 | 57.6 |
| 4/29/2015 6:40:21 | 35.11 | 31.71 | 1,080 | 0.32 | 0.37 | 59.0 |
| 4/29/2015 6:40:22 | 35.43 | 32.03 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/29/2015 6:40:22 | 35.76 | 32.36 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/29/2015 6:40:22 | 36.09 | 32.69 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/29/2015 6:40:23 | 36.42 | 33.02 | 1,108 | 0.32 | 0.37 | 60.6 |
| 4/29/2015 6:40:23 | 36.75 | 33.35 | 1,108 | 0.32 | 0.37 | 60.6 |
| 4/29/2015 6:40:23 | 37.07 | 33.67 | 1,090 | 0.32 | 0.38 | 59.6 |
| 4/29/2015 6:40:24 | 37.40 | 34.00 | 1,090 | 0.32 | 0.38 | 59.6 |
| 4/29/2015 6:40:24 | 37.73 | 34.33 | 1,120 | 0.31 | 0.38 | 61.3 |
| 4/29/2015 6:40:24 | 38.06 | 34.66 | 1,117 | 0.32 | 0.38 | 61.1 |
| 4/29/2015 6:40:25 | 38.39 | 34.99 | 1,117 | 0.32 | 0.38 | 61.1 |
| 4/29/2015 6:40:31 | 38.71 | 35.31 | 0 | 0.31 | 0.38 | 0.0 |
| 4/29/2015 6:40:31 | 39.04 | 35.64 | 166 | 0.32 | 0.38 | 9.1 |
| 4/29/2015 6:40:32 | 39.37 | 35.97 | 166 | 0.32 | 0.38 | 9.1 |
| 4/29/2015 6:40:32 | 39.70 | 36.30 | 399 | 0.33 | 0.38 | 21.8 |
| 4/29/2015 6:40:32 | 40.03 | 36.63 | 399 | 0.33 | 0.38 | 21.8 |
| 4/29/2015 6:40:32 | 40.35 | 36.95 | 626 | 0.32 | 0.37 | 34.2 |
| 4/29/2015 6:40:33 | 40.68 | 37.28 | 845 | 0.33 | 0.38 | 46.2 |
| 4/29/2015 6:40:33 | 41.01 | 37.61 | 845 | 0.33 | 0.38 | 46.2 |
| 4/29/2015 6:40:33 | 41.34 | 37.94 | 1,059 | 0.33 | 0.38 | 57.9 |
| 4/29/2015 6:40:34 | 41.67 | 38.27 | 1,059 | 0.33 | 0.38 | 57.9 |
| 4/29/2015 6:40:34 | 41.99 | 38.59 | 1,136 | 0.32 | 0.37 | 62.1 |
| 4/29/2015 6:40:34 | 42.32 | 38.92 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/29/2015 6:40:35 | 42.65 | 39.25 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/29/2015 6:40:35 | 42.98 | 39.58 | 1,113 | 0.32 | 0.37 | 60.9 |
| 4/29/2015 6:40:35 | 43.31 | 39.91 | 1,117 | 0.32 | 0.37 | 61.1 |
| 4/29/2015 6:40:36 | 43.64 | 40.24 | 1,117 | 0.32 | 0.37 | 61.1 |
| 4/29/2015 6:40:36 | 43.96 | 40.56 | 1,130 | 0.32 | 0.37 | 61.8 |
| 4/29/2015 6:40:36 | 44.29 | 40.89 | 1,130 | 0.32 | 0.37 | 61.8 |
| 4/29/2015 6:40:36 | 44.62 | 41.22 | 1,139 | 0.32 | 0.38 | 62.3 |
| 4/29/2015 6:40:37 | 44.95 | 41.55 | 1,122 | 0.32 | 0.37 | 61.4 |
| 4/29/2015 6:40:37 | 45.28 | 41.88 | 1,122 | 0.32 | 0.37 | 61.4 |
| 4/29/2015 6:40:37 | 45.60 | 42.20 | 1,135 | 0.32 | 0.38 | 62.1 |
| 4/29/2015 6:40:38 | 45.93 | 42.53 | 1,135 | 0.32 | 0.38 | 62.1 |
| 4/29/2015 6:40:38 | 46.26 | 42.86 | 1,130 | 0.32 | 0.38 | 61.8 |
| 4/29/2015 6:40:39 | 46.59 | 43.19 | 1,120 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 6:40:39 | 46.92 | 43.52 | 1,120 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 6:40:39 | 47.24 | 43.84 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/29/2015 6:40:40 | 47.57 | 44.17 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/29/2015 6:40:40 | 47.90 | 44.50 | 1,120 | 0.30 | 0.41 | 61.2 |
| 4/29/2015 6:40:44 | 48.23 | 44.83 | 0 | 3.64 | 0.41 | 0.0 |
| 4/29/2015 6:40:45 | 48.56 | 45.16 | 163 | 4.37 | 0.44 | 8.9 |
| 4/29/2015 6:40:46 | 48.88 | 45.48 | 251 | 3.49 | 0.44 | 13.7 |
| 4/29/2015 6:40:47 | 49.21 | 45.81 | 367 | 3.42 | 0.44 | 20.1 |
| 4/29/2015 6:40:49 | 49.54 | 46.14 | 320 | 3.02 | 0.43 | 17.5 |
| 4/29/2015 6:40:55 | 49.87 | 46.47 | 0 | 3.78 | 0.44 | 0.0 |
| 4/29/2015 6:40:55 | 50.20 | 46.80 | 58 | 3.59 | 0.43 | 3.2 |
| 4/29/2015 6:40:56 | 50.53 | 47.13 | 58 | 2.69 | 0.41 | 3.2 |
| 4/29/2015 6:40:56 | 50.85 | 47.45 | 176 | 2.51 | 0.40 | 9.6 |
| 4/29/2015 6:40:57 | 51.18 | 47.78 | 332 | 2.80 | 0.41 | 18.1 |
| 4/29/2015 6:40:58 | 51.51 | 48.11 | 563 | 3.79 | 0.44 | 30.8 |
| 4/29/2015 6:41:03 | 51.84 | 48.44 | 55 | 4.81 | 0.47 | 3.0 |
| 4/29/2015 6:41:04 | 52.17 | 48.77 | 146 | 3.98 | 0.45 | 8.0 |
| 4/29/2015 6:41:06 | 52.49 | 49.09 | 241 | 7.39 | 0.47 | 13.2 |
| 4/29/2015 6:41:11 | 52.82 | 49.42 | 72 | 7.19 | 0.45 | 3.9 |
| 4/29/2015 6:42:14 | 53.15 | 49.75 | 103 | 1.90 | 0.38 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:42:15 | 53.48 | 50.08 | 103 | 1.90 | 0.38 | 5.6 |
| 4/29/2015 | 6:42:15 | 53.81 | 50.41 | 317 | 1.89 | 0.38 | 17.3 |
| 4/29/2015 | 6:42:15 | 54.13 | 50.73 | 317 | 1.89 | 0.38 | 17.3 |
| 4/29/2015 | 6:42:15 | 54.46 | 51.06 | 535 | 1.89 | 0.39 | 29.2 |
| 4/29/2015 | 6:42:16 | 54.79 | 51.39 | 741 | 1.85 | 0.47 | 40.5 |
| 4/29/2015 | 6:42:19 | 55.12 | 51.72 | 32 | 1.86 | 0.38 | 1.8 |
| 4/29/2015 | 6:42:20 | 55.45 | 52.05 | 32 | 1.86 | 0.38 | 1.8 |
| 4/29/2015 | 6:42:20 | 55.77 | 52.37 | 235 | 1.85 | 0.38 | 12.9 |
| 4/29/2015 | 6:42:20 | 56.10 | 52.70 | 447 | 1.85 | 0.38 | 24.4 |
| 4/29/2015 | 6:42:21 | 56.43 | 53.03 | 447 | 1.85 | 0.38 | 24.4 |
| 4/29/2015 | 6:42:21 | 56.76 | 53.36 | 661 | 1.86 | 0.39 | 36.2 |
| 4/29/2015 | 6:42:21 | 57.09 | 53.69 | 870 | 1.87 | 0.47 | 47.6 |
| 4/29/2015 | 6:42:22 | 57.41 | 54.01 | 873 | 1.85 | 0.39 | 47.7 |
| 4/29/2015 | 6:42:23 | 57.74 | 54.34 | 710 | 1.86 | 0.44 | 38.8 |
| 4/29/2015 | 6:42:24 | 57.97 | 54.57 | 542 | 1.85 | 0.43 | 29.7 |

## J23 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 6:38:43

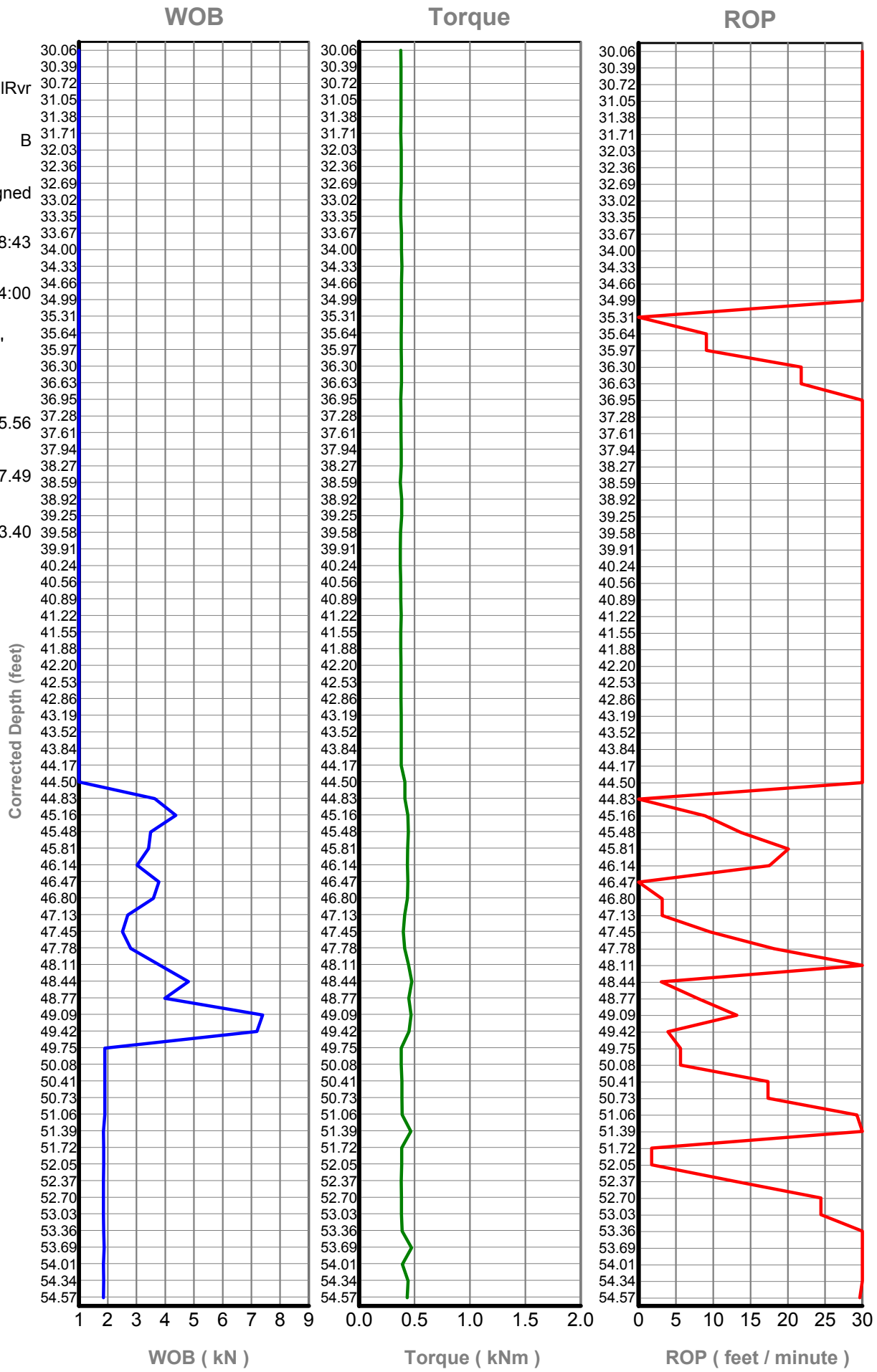
**End Date:**
4/29/2015 6:44:00

**Operator Note:**
'3.4 2.8b Auto Complete'

**Northing:**
362,545.56

**Easting:**
246,477.49

**Tide (feet):**
3.40



## Hole: J24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:39:53 | 33.46 | 30.06 | 1,047 | 1.61 | 0.14 | 57.2 |
| 4/29/2015 6:39:53 | 33.79 | 30.39 | 1,049 | 1.53 | 0.18 | 57.4 |
| 4/29/2015 6:39:54 | 34.12 | 30.72 | 1,049 | 1.62 | 0.22 | 57.4 |
| 4/29/2015 6:39:54 | 34.45 | 31.05 | 1,049 | 1.62 | 0.22 | 57.4 |
| 4/29/2015 6:39:54 | 34.78 | 31.38 | 1,055 | 1.61 | 0.28 | 57.7 |
| 4/29/2015 6:39:55 | 35.11 | 31.71 | 1,049 | 1.59 | 0.32 | 57.4 |
| 4/29/2015 6:39:55 | 35.43 | 32.03 | 1,049 | 1.59 | 0.32 | 57.4 |
| 4/29/2015 6:39:55 | 35.76 | 32.36 | 1,049 | 1.62 | 0.32 | 57.4 |
| 4/29/2015 6:39:56 | 36.09 | 32.69 | 1,049 | 1.62 | 0.32 | 57.4 |
| 4/29/2015 6:39:56 | 36.42 | 33.02 | 1,043 | 1.63 | 0.31 | 57.0 |
| 4/29/2015 6:39:56 | 36.75 | 33.35 | 1,052 | 1.61 | 0.31 | 57.5 |
| 4/29/2015 6:39:57 | 37.07 | 33.67 | 1,052 | 1.61 | 0.31 | 57.5 |
| 4/29/2015 6:39:57 | 37.40 | 34.00 | 1,049 | 1.61 | 0.32 | 57.4 |
| 4/29/2015 6:39:57 | 37.73 | 34.33 | 1,052 | 1.61 | 0.32 | 57.5 |
| 4/29/2015 6:39:58 | 38.06 | 34.66 | 1,052 | 1.61 | 0.32 | 57.5 |
| 4/29/2015 6:39:58 | 38.39 | 34.99 | 1,052 | 1.59 | 0.31 | 57.5 |
| 4/29/2015 6:39:58 | 38.71 | 35.31 | 1,052 | 1.61 | 0.31 | 57.5 |
| 4/29/2015 6:39:59 | 39.04 | 35.64 | 1,052 | 1.61 | 0.31 | 57.5 |
| 4/29/2015 6:39:59 | 39.37 | 35.97 | 1,037 | 1.62 | 0.31 | 56.7 |
| 4/29/2015 6:39:59 | 39.70 | 36.30 | 1,050 | 1.60 | 0.31 | 57.4 |
| 4/29/2015 6:40:00 | 40.03 | 36.63 | 1,050 | 1.60 | 0.31 | 57.4 |
| 4/29/2015 6:40:00 | 40.35 | 36.95 | 1,041 | 1.60 | 0.31 | 56.9 |
| 4/29/2015 6:40:00 | 40.68 | 37.28 | 1,047 | 1.60 | 0.31 | 57.3 |
| 4/29/2015 6:40:01 | 41.01 | 37.61 | 1,047 | 1.60 | 0.31 | 57.3 |
| 4/29/2015 6:40:01 | 41.34 | 37.94 | 1,050 | 1.61 | 0.31 | 57.4 |
| 4/29/2015 6:40:01 | 41.67 | 38.27 | 1,065 | 1.62 | 0.31 | 58.2 |
| 4/29/2015 6:40:02 | 41.99 | 38.59 | 1,065 | 1.62 | 0.31 | 58.2 |
| 4/29/2015 6:40:04 | 42.32 | 38.92 | 432 | 1.62 | 0.98 | 23.6 |
| 4/29/2015 6:40:04 | 42.65 | 39.25 | 361 | 1.60 | 1.00 | 19.8 |
| 4/29/2015 6:40:05 | 42.98 | 39.58 | 361 | 1.60 | 1.00 | 19.8 |
| 4/29/2015 6:40:05 | 43.31 | 39.91 | 373 | 1.60 | 1.00 | 20.4 |
| 4/29/2015 6:40:05 | 43.64 | 40.24 | 576 | 1.60 | 1.01 | 31.5 |
| 4/29/2015 6:40:06 | 43.96 | 40.56 | 576 | 1.60 | 1.01 | 31.5 |
| 4/29/2015 6:40:06 | 44.29 | 40.89 | 785 | 1.58 | 1.00 | 42.9 |
| 4/29/2015 6:40:06 | 44.62 | 41.22 | 994 | 1.59 | 1.01 | 54.3 |
| 4/29/2015 6:40:07 | 44.95 | 41.55 | 994 | 1.59 | 1.01 | 54.3 |
| 4/29/2015 6:40:07 | 45.28 | 41.88 | 907 | 1.64 | 1.02 | 49.6 |
| 4/29/2015 6:40:08 | 45.60 | 42.20 | 907 | 1.64 | 1.02 | 49.6 |
| 4/29/2015 6:40:08 | 45.93 | 42.53 | 860 | 1.64 | 1.01 | 47.0 |
| 4/29/2015 6:40:08 | 46.26 | 42.86 | 846 | 1.62 | 1.03 | 46.2 |
| 4/29/2015 6:40:12 | 46.59 | 43.19 | 296 | 1.70 | 1.02 | 16.2 |
| 4/29/2015 6:40:12 | 46.92 | 43.52 | 137 | 1.62 | 1.01 | 7.5 |
| 4/29/2015 6:40:13 | 47.24 | 43.84 | 137 | 1.70 | 1.01 | 7.5 |
| 4/29/2015 6:40:13 | 47.57 | 44.17 | 204 | 1.64 | 1.01 | 11.2 |
| 4/29/2015 6:40:14 | 47.90 | 44.50 | 204 | 1.64 | 1.01 | 11.2 |
| 4/29/2015 6:40:15 | 48.23 | 44.83 | 361 | 1.64 | 1.00 | 19.7 |
| 4/29/2015 6:40:15 | 48.56 | 45.16 | 361 | 1.64 | 1.00 | 19.7 |
| 4/29/2015 6:40:15 | 48.88 | 45.48 | 558 | 1.63 | 1.00 | 30.5 |
| 4/29/2015 6:40:16 | 49.21 | 45.81 | 685 | 1.64 | 1.00 | 37.5 |
| 4/29/2015 6:40:16 | 49.54 | 46.14 | 685 | 1.64 | 1.00 | 37.5 |
| 4/29/2015 6:40:21 | 49.87 | 46.47 | 6 | 1.64 | 1.01 | 0.3 |
| 4/29/2015 6:40:26 | 50.20 | 46.80 | 11 | 1.67 | 1.44 | 0.6 |
| 4/29/2015 6:40:26 | 50.53 | 47.13 | 68 | 1.63 | 1.49 | 3.7 |
| 4/29/2015 6:40:30 | 50.85 | 47.45 | 18 | 1.66 | 1.30 | 1.0 |
| 4/29/2015 6:40:31 | 51.18 | 47.78 | 136 | 1.38 | 1.41 | 7.5 |
| 4/29/2015 6:40:47 | 51.51 | 48.11 | 56 | 1.59 | 1.23 | 3.1 |
| 4/29/2015 6:40:48 | 51.84 | 48.44 | 198 | 1.62 | 1.27 | 10.8 |
| 4/29/2015 6:40:48 | 52.17 | 48.77 | 279 | 1.63 | 1.21 | 15.2 |
| 4/29/2015 6:41:01 | 52.49 | 49.09 | 75 | 1.62 | 1.31 | 4.1 |
| 4/29/2015 6:41:02 | 52.82 | 49.42 | 203 | 1.60 | 1.19 | 11.1 |
| 4/29/2015 6:41:03 | 53.15 | 49.75 | 346 | 1.63 | 1.26 | 18.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:41:17 | 53.48 | 50.08 | 14 | 1.66 | 1.18 | 0.8 |
| 4/29/2015 | 6:41:17 | 53.81 | 50.41 | 114 | 1.63 | 1.10 | 6.2 |
| 4/29/2015 | 6:41:18 | 54.13 | 50.73 | 329 | 1.69 | 1.09 | 18.0 |
| 4/29/2015 | 6:41:19 | 54.46 | 51.06 | 447 | 1.66 | 1.19 | 24.4 |
| 4/29/2015 | 6:41:28 | 54.79 | 51.39 | 93 | 1.66 | 1.22 | 5.1 |
| 4/29/2015 | 6:41:29 | 55.12 | 51.72 | 229 | 1.63 | 1.33 | 12.5 |
| 4/29/2015 | 6:41:30 | 55.45 | 52.05 | 336 | 1.64 | 1.03 | 18.4 |
| 4/29/2015 | 6:41:30 | 55.77 | 52.37 | 422 | 1.68 | 1.02 | 23.1 |
| 4/29/2015 | 6:41:35 | 56.10 | 52.70 | 0 | 1.64 | 0.94 | 0.0 |
| 4/29/2015 | 6:41:35 | 56.43 | 53.03 | 121 | 1.73 | 1.00 | 6.6 |
| 4/29/2015 | 6:41:39 | 56.76 | 53.36 | 0 | 1.66 | 0.98 | 0.0 |
| 4/29/2015 | 6:41:40 | 57.09 | 53.69 | 143 | 1.64 | 0.98 | 7.8 |
| 4/29/2015 | 6:41:42 | 57.41 | 54.01 | 193 | 2.10 | 0.90 | 10.5 |
| 4/29/2015 | 6:41:44 | 57.74 | 54.34 | 161 | 1.69 | 0.89 | 8.8 |
| 4/29/2015 | 6:41:45 | 58.05 | 54.65 | 219 | 1.72 | 0.95 | 12.0 |

## J24 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 6:38:20

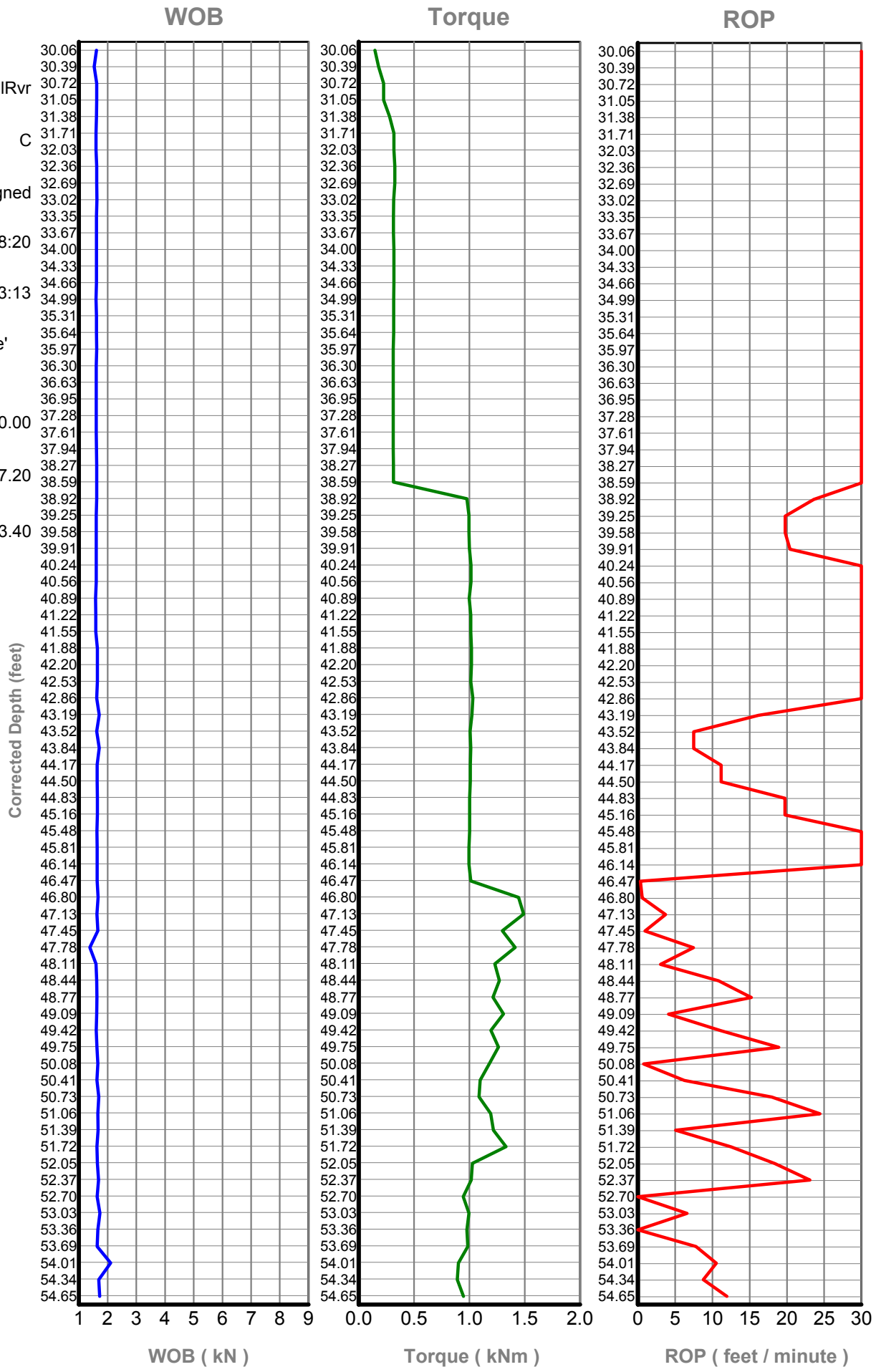
**End Date:**
4/29/2015 6:43:13

**Operator Note:**
'3.4 2.9 c Auto Complete'

**Northing:**
362,590.00

**Easting:**
246,537.20

**Tide (feet):**
3.40



## Hole: J25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:40:26 | 31.82 | 30.12 | 749 | 1.08 | 0.60 | 40.9 |
| 4/29/2015 5:40:27 | 32.15 | 30.45 | 746 | 1.08 | 0.60 | 40.8 |
| 4/29/2015 5:40:27 | 32.48 | 30.78 | 746 | 1.07 | 0.60 | 40.8 |
| 4/29/2015 5:40:28 | 32.81 | 31.11 | 740 | 1.08 | 0.60 | 40.5 |
| 4/29/2015 5:40:28 | 33.14 | 31.44 | 740 | 1.08 | 0.60 | 40.5 |
| 4/29/2015 5:40:28 | 33.46 | 31.76 | 741 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:29 | 33.79 | 32.09 | 741 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:29 | 34.12 | 32.42 | 741 | 1.11 | 0.60 | 40.5 |
| 4/29/2015 5:40:30 | 34.45 | 32.75 | 741 | 1.09 | 0.60 | 40.5 |
| 4/29/2015 5:40:30 | 34.78 | 33.08 | 725 | 1.09 | 0.60 | 39.6 |
| 4/29/2015 5:40:31 | 35.11 | 33.41 | 725 | 1.09 | 0.60 | 39.6 |
| 4/29/2015 5:40:31 | 35.43 | 33.73 | 743 | 1.08 | 0.60 | 40.6 |
| 4/29/2015 5:40:32 | 35.76 | 34.06 | 736 | 1.07 | 0.60 | 40.3 |
| 4/29/2015 5:40:32 | 36.09 | 34.39 | 740 | 1.07 | 0.62 | 40.5 |
| 4/29/2015 5:40:33 | 36.42 | 34.72 | 739 | 1.07 | 0.60 | 40.4 |
| 4/29/2015 5:40:33 | 36.75 | 35.05 | 744 | 1.07 | 0.60 | 40.7 |
| 4/29/2015 5:40:34 | 37.07 | 35.37 | 744 | 1.07 | 0.60 | 40.7 |
| 4/29/2015 5:40:34 | 37.40 | 35.70 | 743 | 1.08 | 0.60 | 40.6 |
| 4/29/2015 5:40:34 | 37.73 | 36.03 | 755 | 1.08 | 0.60 | 41.3 |
| 4/29/2015 5:40:35 | 38.06 | 36.36 | 750 | 1.07 | 0.60 | 41.0 |
| 4/29/2015 5:40:36 | 38.39 | 36.69 | 747 | 1.08 | 0.60 | 40.8 |
| 4/29/2015 5:40:36 | 38.71 | 37.01 | 758 | 1.01 | 0.60 | 41.5 |
| 4/29/2015 5:40:37 | 39.04 | 37.34 | 754 | 1.07 | 0.60 | 41.2 |
| 4/29/2015 5:40:37 | 39.37 | 37.67 | 749 | 1.08 | 0.60 | 41.0 |
| 4/29/2015 5:40:38 | 39.70 | 38.00 | 746 | 1.09 | 0.60 | 40.8 |
| 4/29/2015 5:40:38 | 40.03 | 38.33 | 746 | 1.07 | 0.60 | 40.8 |
| 4/29/2015 5:40:39 | 40.35 | 38.65 | 746 | 1.07 | 0.60 | 40.8 |
| 4/29/2015 5:40:39 | 40.68 | 38.98 | 743 | 1.07 | 0.60 | 40.6 |
| 4/29/2015 5:40:40 | 41.01 | 39.31 | 740 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:40 | 41.34 | 39.64 | 740 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:40 | 41.67 | 39.97 | 736 | 1.07 | 0.60 | 40.2 |
| 4/29/2015 5:40:41 | 41.99 | 40.29 | 748 | 1.07 | 0.60 | 40.9 |
| 4/29/2015 5:40:41 | 42.32 | 40.62 | 740 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:42 | 42.65 | 40.95 | 736 | 1.07 | 0.60 | 40.2 |
| 4/29/2015 5:40:42 | 42.98 | 41.28 | 740 | 1.10 | 0.60 | 40.5 |
| 4/29/2015 5:40:43 | 43.31 | 41.61 | 743 | 1.07 | 0.60 | 40.6 |
| 4/29/2015 5:40:43 | 43.64 | 41.94 | 735 | 1.07 | 0.60 | 40.2 |
| 4/29/2015 5:40:44 | 43.96 | 42.26 | 740 | 1.08 | 0.60 | 40.5 |
| 4/29/2015 5:40:44 | 44.29 | 42.59 | 740 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:45 | 44.62 | 42.92 | 743 | 1.07 | 0.59 | 40.6 |
| 4/29/2015 5:40:45 | 44.95 | 43.25 | 740 | 1.07 | 0.60 | 40.5 |
| 4/29/2015 5:40:46 | 45.28 | 43.58 | 742 | 1.06 | 0.60 | 40.6 |
| 4/29/2015 5:40:47 | 45.60 | 43.90 | 737 | 1.07 | 0.60 | 40.3 |
| 4/29/2015 5:40:47 | 45.93 | 44.23 | 737 | 1.07 | 0.60 | 40.3 |
| 4/29/2015 5:40:47 | 46.26 | 44.56 | 737 | 1.07 | 0.60 | 40.3 |
| 4/29/2015 5:40:48 | 46.59 | 44.89 | 731 | 1.08 | 0.60 | 40.0 |
| 4/29/2015 5:40:48 | 46.92 | 45.22 | 731 | 1.08 | 0.60 | 40.0 |
| 4/29/2015 5:40:49 | 47.24 | 45.54 | 727 | 1.08 | 0.59 | 39.7 |
| 4/29/2015 5:40:49 | 47.57 | 45.87 | 725 | 1.08 | 0.60 | 39.7 |
| 4/29/2015 5:40:50 | 47.90 | 46.20 | 703 | 1.09 | 0.60 | 38.4 |
| 4/29/2015 5:40:51 | 48.23 | 46.53 | 653 | 1.10 | 0.60 | 35.7 |
| 4/29/2015 5:40:51 | 48.56 | 46.86 | 628 | 1.10 | 0.60 | 34.3 |
| 4/29/2015 5:40:52 | 48.88 | 47.18 | 604 | 1.09 | 0.60 | 33.0 |
| 4/29/2015 5:40:52 | 49.21 | 47.51 | 590 | 1.10 | 0.59 | 32.3 |
| 4/29/2015 5:40:53 | 49.54 | 47.84 | 575 | 1.10 | 0.60 | 31.4 |
| 4/29/2015 5:40:54 | 49.87 | 48.17 | 555 | 1.09 | 0.60 | 30.4 |
| 4/29/2015 5:40:54 | 50.20 | 48.50 | 546 | 1.10 | 0.59 | 29.9 |
| 4/29/2015 5:40:55 | 50.53 | 48.83 | 541 | 1.09 | 0.60 | 29.6 |
| 4/29/2015 5:40:56 | 50.85 | 49.15 | 521 | 1.09 | 0.60 | 28.5 |
| 4/29/2015 5:41:20 | 51.18 | 49.48 | 9 | 1.98 | 1.31 | 0.5 |
| 4/29/2015 5:41:21 | 51.51 | 49.81 | 209 | 1.05 | 1.89 | 11.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:41:51 | 51.84 | 50.14 | 0 | 1.10 | 1.21 | 0.0 |
| 4/29/2015 | 5:41:54 | 52.17 | 50.47 | 144 | 1.09 | 1.27 | 7.9 |
| 4/29/2015 | 5:42:02 | 52.49 | 50.79 | 0 | 1.12 | 1.23 | 0.0 |
| 4/29/2015 | 5:42:13 | 52.82 | 51.12 | 24 | 1.68 | 1.93 | 1.3 |
| 4/29/2015 | 5:42:15 | 53.15 | 51.45 | 46 | 0.54 | 1.50 | 2.5 |
| 4/29/2015 | 5:42:18 | 53.48 | 51.78 | 123 | 1.13 | 0.87 | 6.7 |
| 4/29/2015 | 5:42:31 | 53.81 | 52.11 | 28 | 1.15 | 0.90 | 1.5 |
| 4/29/2015 | 5:42:33 | 54.13 | 52.43 | 110 | 1.15 | 0.97 | 6.0 |
| 4/29/2015 | 5:42:34 | 54.46 | 52.76 | 197 | 1.18 | 1.13 | 10.8 |
| 4/29/2015 | 5:42:38 | 54.79 | 53.09 | 99 | 1.19 | 1.31 | 5.4 |
| 4/29/2015 | 5:42:42 | 55.12 | 53.42 | 94 | 1.12 | 1.71 | 5.1 |
| 4/29/2015 | 5:42:44 | 55.45 | 53.75 | 99 | 1.15 | 0.93 | 5.4 |
| 4/29/2015 | 5:42:45 | 55.77 | 54.07 | 202 | 1.09 | 0.72 | 11.1 |
| 4/29/2015 | 5:42:46 | 56.10 | 54.40 | 202 | 1.12 | 0.73 | 11.1 |
| 4/29/2015 | 5:42:47 | 56.43 | 54.73 | 397 | 1.13 | 1.07 | 21.7 |
| 4/29/2015 | 5:42:48 | 56.66 | 54.96 | 319 | 1.24 | 1.23 | 17.5 |

## J25 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:38:05

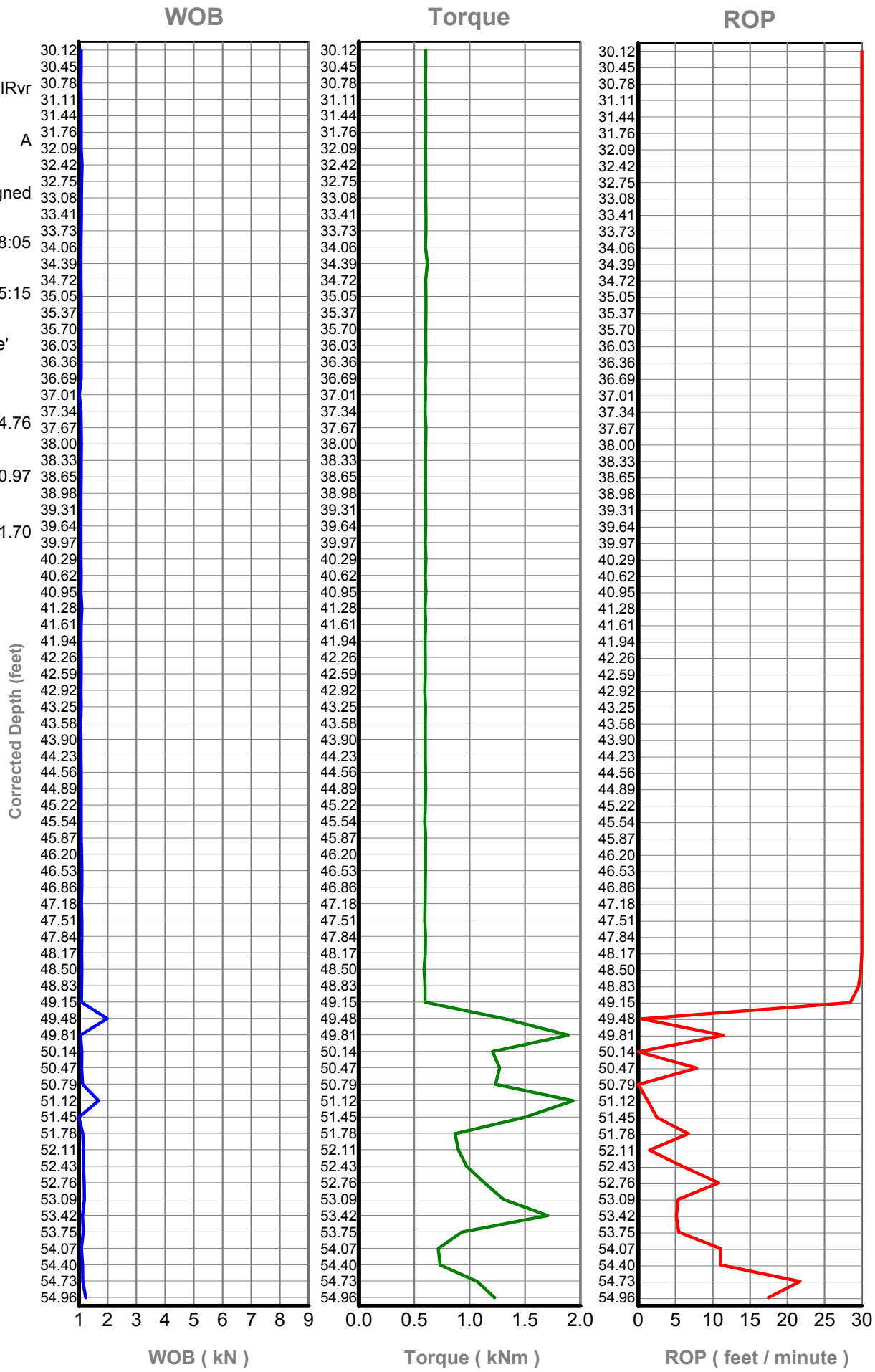
**End Date:**
4/29/2015 5:45:15

**Operator Note:**
'1.7 1.4 b Auto Complete'

**Northing:**
362,624.76

**Easting:**
246,590.97

**Tide (feet):**
1.70



## Hole: J26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:41:01 | 32.15 | 30.15 | 1,088 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:01 | 32.48 | 30.48 | 1,083 | 0.36 | 0.38 | 59.2 |
| 4/29/2015 5:41:02 | 32.81 | 30.81 | 1,083 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 5:41:02 | 33.14 | 31.14 | 1,083 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 5:41:02 | 33.46 | 31.46 | 1,100 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:03 | 33.79 | 31.79 | 1,100 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:03 | 34.12 | 32.12 | 1,090 | 0.31 | 0.38 | 59.6 |
| 4/29/2015 5:41:03 | 34.45 | 32.45 | 1,091 | 0.31 | 0.38 | 59.6 |
| 4/29/2015 5:41:04 | 34.78 | 32.78 | 1,091 | 0.31 | 0.38 | 59.6 |
| 4/29/2015 5:41:04 | 35.11 | 33.11 | 1,091 | 0.31 | 0.38 | 59.6 |
| 4/29/2015 5:41:04 | 35.43 | 33.43 | 1,084 | 0.31 | 0.38 | 59.3 |
| 4/29/2015 5:41:05 | 35.76 | 33.76 | 1,084 | 0.31 | 0.38 | 59.3 |
| 4/29/2015 5:41:05 | 36.09 | 34.09 | 1,102 | 0.31 | 0.38 | 60.3 |
| 4/29/2015 5:41:05 | 36.42 | 34.42 | 1,102 | 0.31 | 0.38 | 60.3 |
| 4/29/2015 5:41:05 | 36.75 | 34.75 | 1,102 | 0.31 | 0.38 | 60.3 |
| 4/29/2015 5:41:06 | 37.07 | 35.07 | 1,091 | 0.31 | 0.38 | 59.7 |
| 4/29/2015 5:41:07 | 37.40 | 35.40 | 1,091 | 0.31 | 0.38 | 59.7 |
| 4/29/2015 5:41:07 | 37.73 | 35.73 | 1,074 | 0.33 | 0.38 | 58.7 |
| 4/29/2015 5:41:07 | 38.06 | 36.06 | 1,089 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:08 | 38.39 | 36.39 | 1,089 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:08 | 38.71 | 36.71 | 1,089 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:08 | 39.04 | 37.04 | 1,089 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:08 | 39.37 | 37.37 | 1,082 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 5:41:09 | 39.70 | 37.70 | 1,082 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 5:41:09 | 40.03 | 38.03 | 1,082 | 0.31 | 0.38 | 59.2 |
| 4/29/2015 5:41:09 | 40.35 | 38.35 | 1,099 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:10 | 40.68 | 38.68 | 1,093 | 0.31 | 0.37 | 59.8 |
| 4/29/2015 5:41:10 | 41.01 | 39.01 | 1,093 | 0.31 | 0.37 | 59.8 |
| 4/29/2015 5:41:10 | 41.34 | 39.34 | 1,096 | 0.31 | 0.38 | 59.9 |
| 4/29/2015 5:41:11 | 41.67 | 39.67 | 1,096 | 0.31 | 0.38 | 59.9 |
| 4/29/2015 5:41:11 | 41.99 | 39.99 | 1,096 | 0.31 | 0.38 | 59.9 |
| 4/29/2015 5:41:11 | 42.32 | 40.32 | 1,093 | 0.31 | 0.38 | 59.8 |
| 4/29/2015 5:41:12 | 42.65 | 40.65 | 1,093 | 0.31 | 0.38 | 59.8 |
| 4/29/2015 5:41:12 | 42.98 | 40.98 | 1,100 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:12 | 43.31 | 41.31 | 1,100 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:13 | 43.64 | 41.64 | 1,100 | 0.31 | 0.38 | 60.1 |
| 4/29/2015 5:41:13 | 43.96 | 41.96 | 1,088 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:13 | 44.29 | 42.29 | 1,088 | 0.31 | 0.38 | 59.5 |
| 4/29/2015 5:41:13 | 44.62 | 42.62 | 1,081 | 0.31 | 0.38 | 59.1 |
| 4/29/2015 5:41:14 | 44.95 | 42.95 | 1,102 | 0.31 | 0.37 | 60.3 |
| 4/29/2015 5:41:14 | 45.28 | 43.28 | 1,102 | 0.31 | 0.37 | 60.3 |
| 4/29/2015 5:41:14 | 45.60 | 43.60 | 1,102 | 0.31 | 0.38 | 60.3 |
| 4/29/2015 5:41:15 | 45.93 | 43.93 | 1,102 | 0.31 | 0.38 | 60.3 |
| 4/29/2015 5:41:15 | 46.26 | 44.26 | 1,115 | 0.31 | 0.38 | 61.0 |
| 4/29/2015 5:41:15 | 46.59 | 44.59 | 1,135 | 0.30 | 0.38 | 62.0 |
| 4/29/2015 5:41:16 | 46.92 | 44.92 | 1,135 | 0.30 | 0.38 | 62.0 |
| 4/29/2015 5:41:16 | 47.24 | 45.24 | 1,128 | 0.31 | 0.39 | 61.7 |
| 4/29/2015 5:41:16 | 47.57 | 45.57 | 1,080 | 0.31 | 0.39 | 59.1 |
| 4/29/2015 5:41:17 | 47.90 | 45.90 | 1,080 | 0.31 | 0.39 | 59.1 |
| 4/29/2015 5:41:17 | 48.23 | 46.23 | 1,080 | 0.31 | 0.39 | 59.1 |
| 4/29/2015 5:41:18 | 48.56 | 46.56 | 1,054 | 0.12 | 0.39 | 57.6 |
| 4/29/2015 5:41:18 | 48.88 | 46.88 | 987 | 0.31 | 0.39 | 54.0 |
| 4/29/2015 5:41:19 | 49.21 | 47.21 | 987 | 0.31 | 0.39 | 54.0 |
| 4/29/2015 5:41:19 | 49.54 | 47.54 | 927 | 0.31 | 0.40 | 50.7 |
| 4/29/2015 5:41:19 | 49.87 | 47.87 | 927 | 0.31 | 0.40 | 50.7 |
| 4/29/2015 5:41:20 | 50.20 | 48.20 | 901 | 0.31 | 0.40 | 49.2 |
| 4/29/2015 5:41:20 | 50.53 | 48.53 | 897 | 0.30 | 0.40 | 49.1 |
| 4/29/2015 5:41:21 | 50.85 | 48.85 | 897 | 0.30 | 0.40 | 49.1 |
| 4/29/2015 5:41:21 | 51.18 | 49.18 | 840 | 0.30 | 0.40 | 45.9 |
| 4/29/2015 5:41:21 | 51.51 | 49.51 | 840 | 0.31 | 0.40 | 45.9 |
| 4/29/2015 5:41:22 | 51.84 | 49.84 | 838 | 0.31 | 0.40 | 45.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:41:22 | 52.17 | 50.17 | 838 | 0.30 | 0.41 | 45.8 |
| 4/29/2015 | 5:41:23 | 52.49 | 50.49 | 820 | 0.30 | 0.41 | 44.8 |
| 4/29/2015 | 5:41:23 | 52.82 | 50.82 | 820 | 0.31 | 0.41 | 44.8 |
| 4/29/2015 | 5:41:24 | 53.15 | 51.15 | 792 | 0.30 | 0.41 | 43.3 |
| 4/29/2015 | 5:41:24 | 53.48 | 51.48 | 792 | 0.30 | 0.41 | 43.3 |
| 4/29/2015 | 5:41:24 | 53.81 | 51.81 | 763 | 0.20 | 0.41 | 41.7 |
| 4/29/2015 | 5:41:25 | 54.13 | 52.13 | 763 | 0.30 | 0.41 | 41.7 |
| 4/29/2015 | 5:41:25 | 54.46 | 52.46 | 772 | 0.30 | 0.41 | 42.2 |
| 4/29/2015 | 5:41:26 | 54.79 | 52.79 | 768 | 0.30 | 0.40 | 42.0 |
| 4/29/2015 | 5:41:26 | 55.12 | 53.12 | 739 | 0.31 | 0.41 | 40.4 |
| 4/29/2015 | 5:41:38 | 55.45 | 53.45 | 0 | 3.23 | 0.45 | 0.0 |
| 4/29/2015 | 5:41:40 | 55.77 | 53.77 | 172 | 3.84 | 0.41 | 9.4 |
| 4/29/2015 | 5:41:42 | 56.10 | 54.10 | 192 | 4.09 | 0.43 | 10.5 |
| 4/29/2015 | 5:41:48 | 56.43 | 54.43 | 35 | 3.36 | 0.45 | 1.9 |
| 4/29/2015 | 5:41:49 | 56.56 | 54.56 | 124 | 3.69 | 0.35 | 6.8 |

## J26 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:39:29

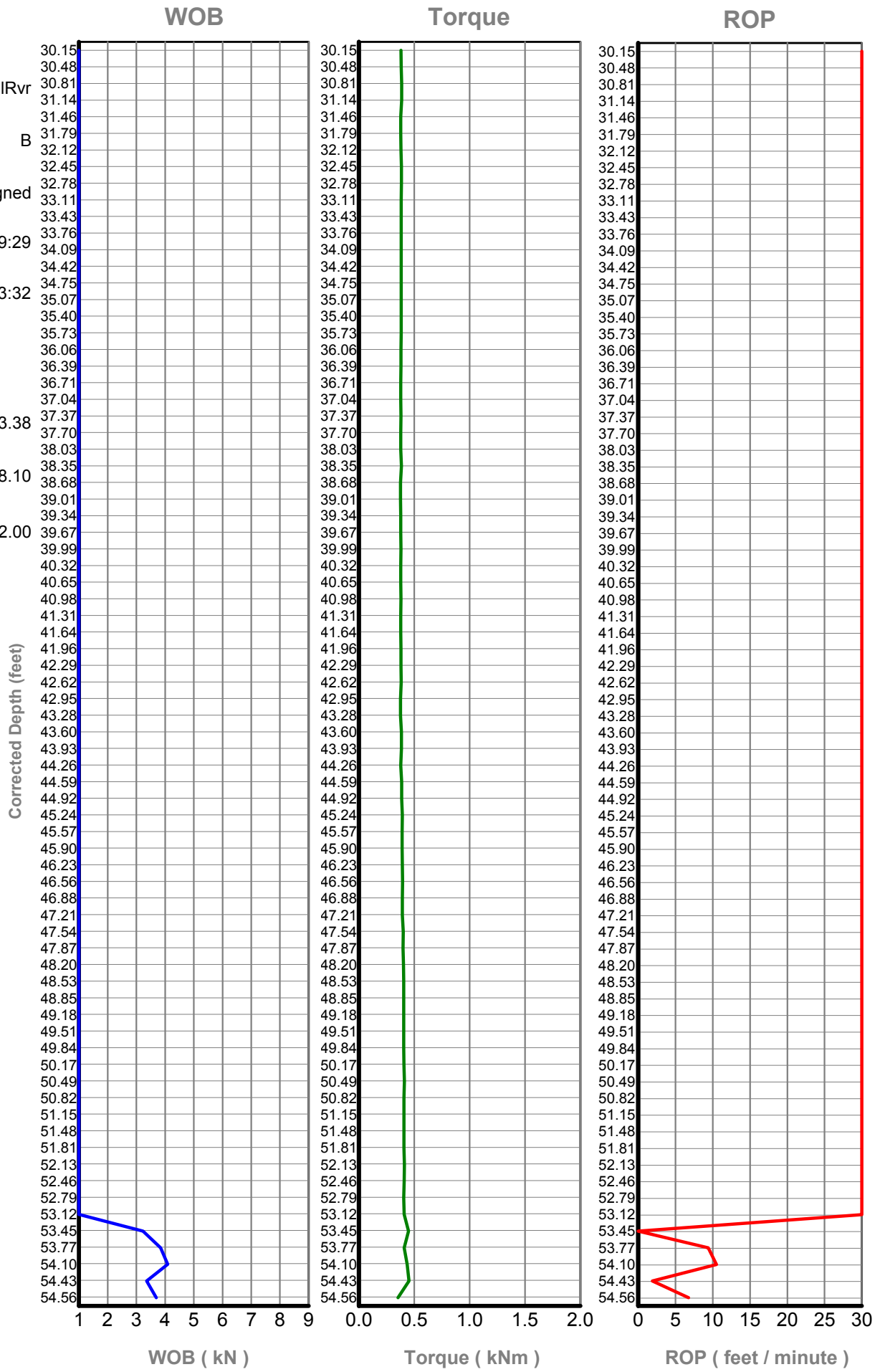
**End Date:**
4/29/2015 5:43:32

**Operator Note:**
'2 1.4b Auto Complete'

**Northing:**
362,673.38

**Easting:**
246,648.10

**Tide (feet):**
2.00



## Hole: J27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:40:58 | 32.15 | 30.15 | 1,068 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 5:40:59 | 32.48 | 30.48 | 1,068 | 1.59 | 0.14 | 58.4 |
| 4/29/2015 5:40:59 | 32.81 | 30.81 | 1,068 | 1.59 | 0.14 | 58.4 |
| 4/29/2015 5:40:59 | 33.14 | 31.14 | 1,062 | 1.59 | 0.14 | 58.1 |
| 4/29/2015 5:41:00 | 33.46 | 31.46 | 1,092 | 1.60 | 0.14 | 59.7 |
| 4/29/2015 5:41:00 | 33.79 | 31.79 | 1,092 | 1.60 | 0.14 | 59.7 |
| 4/29/2015 5:41:00 | 34.12 | 32.12 | 1,089 | 1.60 | 0.14 | 59.6 |
| 4/29/2015 5:41:01 | 34.45 | 32.45 | 1,089 | 1.60 | 0.14 | 59.6 |
| 4/29/2015 5:41:01 | 34.78 | 32.78 | 1,092 | 1.59 | 0.14 | 59.7 |
| 4/29/2015 5:41:01 | 35.11 | 33.11 | 1,108 | 1.59 | 0.14 | 60.6 |
| 4/29/2015 5:41:02 | 35.43 | 33.43 | 1,108 | 1.59 | 0.14 | 60.6 |
| 4/29/2015 5:41:02 | 35.76 | 33.76 | 1,106 | 1.60 | 0.14 | 60.5 |
| 4/29/2015 5:41:03 | 36.09 | 34.09 | 1,081 | 1.58 | 0.14 | 59.1 |
| 4/29/2015 5:41:03 | 36.42 | 34.42 | 1,081 | 1.58 | 0.14 | 59.1 |
| 4/29/2015 5:41:03 | 36.75 | 34.75 | 1,077 | 1.60 | 0.14 | 58.9 |
| 4/29/2015 5:41:04 | 37.07 | 35.07 | 1,081 | 1.59 | 0.14 | 59.1 |
| 4/29/2015 5:41:04 | 37.40 | 35.40 | 1,081 | 1.59 | 0.14 | 59.1 |
| 4/29/2015 5:41:04 | 37.73 | 35.73 | 1,068 | 1.59 | 0.14 | 58.4 |
| 4/29/2015 5:41:05 | 38.06 | 36.06 | 1,077 | 1.60 | 0.14 | 58.9 |
| 4/29/2015 5:41:05 | 38.39 | 36.39 | 1,077 | 1.60 | 0.14 | 58.9 |
| 4/29/2015 5:41:05 | 38.71 | 36.71 | 1,089 | 1.59 | 0.14 | 59.5 |
| 4/29/2015 5:41:06 | 39.04 | 37.04 | 1,089 | 1.59 | 0.14 | 59.5 |
| 4/29/2015 5:41:06 | 39.37 | 37.37 | 1,083 | 1.58 | 0.14 | 59.2 |
| 4/29/2015 5:41:06 | 39.70 | 37.70 | 1,069 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:07 | 40.03 | 38.03 | 1,069 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:07 | 40.35 | 38.35 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:41:07 | 40.68 | 38.68 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:08 | 41.01 | 39.01 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:08 | 41.34 | 39.34 | 1,070 | 1.60 | 0.14 | 58.5 |
| 4/29/2015 5:41:08 | 41.67 | 39.67 | 1,072 | 1.61 | 0.14 | 58.6 |
| 4/29/2015 5:41:09 | 41.99 | 39.99 | 1,072 | 1.61 | 0.14 | 58.6 |
| 4/29/2015 5:41:09 | 42.32 | 40.32 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:09 | 42.65 | 40.65 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:09 | 42.98 | 40.98 | 1,072 | 1.61 | 0.14 | 58.6 |
| 4/29/2015 5:41:10 | 43.31 | 41.31 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:10 | 43.64 | 41.64 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:10 | 43.96 | 41.96 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:41:11 | 44.29 | 42.29 | 1,060 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 5:41:11 | 44.62 | 42.62 | 1,060 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 5:41:11 | 44.95 | 42.95 | 1,070 | 1.59 | 0.14 | 58.5 |
| 4/29/2015 5:41:12 | 45.28 | 43.28 | 1,067 | 1.60 | 0.14 | 58.3 |
| 4/29/2015 5:41:12 | 45.60 | 43.60 | 1,067 | 1.60 | 0.14 | 58.3 |
| 4/29/2015 5:41:12 | 45.93 | 43.93 | 1,064 | 1.60 | 0.14 | 58.2 |
| 4/29/2015 5:41:13 | 46.26 | 44.26 | 1,052 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:41:14 | 46.59 | 44.59 | 1,052 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:41:14 | 46.92 | 44.92 | 1,062 | 1.59 | 0.14 | 58.1 |
| 4/29/2015 5:41:14 | 47.24 | 45.24 | 1,068 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 5:41:15 | 47.57 | 45.57 | 1,068 | 1.62 | 0.14 | 58.4 |
| 4/29/2015 5:41:15 | 47.90 | 45.90 | 1,054 | 1.64 | 0.14 | 57.6 |
| 4/29/2015 5:41:15 | 48.23 | 46.23 | 1,019 | 1.65 | 0.14 | 55.7 |
| 4/29/2015 5:41:16 | 48.56 | 46.56 | 1,019 | 1.65 | 0.14 | 55.7 |
| 4/29/2015 5:41:16 | 48.88 | 46.88 | 1,002 | 1.66 | 0.14 | 54.8 |
| 4/29/2015 5:41:16 | 49.21 | 47.21 | 949 | 1.66 | 0.14 | 51.9 |
| 4/29/2015 5:41:17 | 49.54 | 47.54 | 889 | 1.66 | 0.15 | 48.6 |
| 4/29/2015 5:41:17 | 49.87 | 47.87 | 868 | 1.66 | 0.14 | 47.4 |
| 4/29/2015 5:41:18 | 50.20 | 48.20 | 853 | 1.66 | 0.14 | 46.7 |
| 4/29/2015 5:41:18 | 50.53 | 48.53 | 853 | 1.66 | 0.14 | 46.7 |
| 4/29/2015 5:41:18 | 50.85 | 48.85 | 839 | 1.65 | 0.14 | 45.9 |
| 4/29/2015 5:41:19 | 51.18 | 49.18 | 810 | 1.65 | 0.14 | 44.3 |
| 4/29/2015 5:41:19 | 51.51 | 49.51 | 810 | 1.66 | 0.14 | 44.3 |
| 4/29/2015 5:41:20 | 51.84 | 49.84 | 787 | 1.68 | 0.14 | 43.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:41:20 | 52.17 | 50.17 | 744 | 1.67 | 0.14 | 40.7 |
| 4/29/2015 | 5:41:21 | 52.49 | 50.49 | 744 | 1.66 | 0.14 | 40.7 |
| 4/29/2015 | 5:41:21 | 52.82 | 50.82 | 721 | 1.68 | 0.14 | 39.4 |
| 4/29/2015 | 5:41:22 | 53.15 | 51.15 | 695 | 1.66 | 0.14 | 38.0 |
| 4/29/2015 | 5:41:22 | 53.48 | 51.48 | 679 | 1.65 | 0.14 | 37.1 |
| 4/29/2015 | 5:41:23 | 53.81 | 51.81 | 679 | 1.67 | 0.14 | 37.1 |
| 4/29/2015 | 5:41:24 | 54.13 | 52.13 | 679 | 1.68 | 0.14 | 37.1 |
| 4/29/2015 | 5:41:24 | 54.46 | 52.46 | 670 | 1.67 | 0.14 | 36.7 |
| 4/29/2015 | 5:41:25 | 54.79 | 52.79 | 663 | 1.67 | 0.14 | 36.3 |
| 4/29/2015 | 5:41:25 | 55.12 | 53.12 | 663 | 1.68 | 0.14 | 36.3 |
| 4/29/2015 | 5:41:26 | 55.45 | 53.45 | 665 | 1.68 | 0.14 | 36.4 |
| 4/29/2015 | 5:41:55 | 55.77 | 53.77 | 16 | 1.64 | 1.22 | 0.9 |
| 4/29/2015 | 5:42:00 | 56.10 | 54.10 | 117 | 1.68 | 1.23 | 6.4 |
| 4/29/2015 | 5:42:02 | 56.43 | 54.43 | 129 | 1.68 | 1.26 | 7.1 |
| 4/29/2015 | 5:42:03 | 56.47 | 54.47 | 125 | 1.68 | 1.27 | 6.8 |

## J27 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:39:36

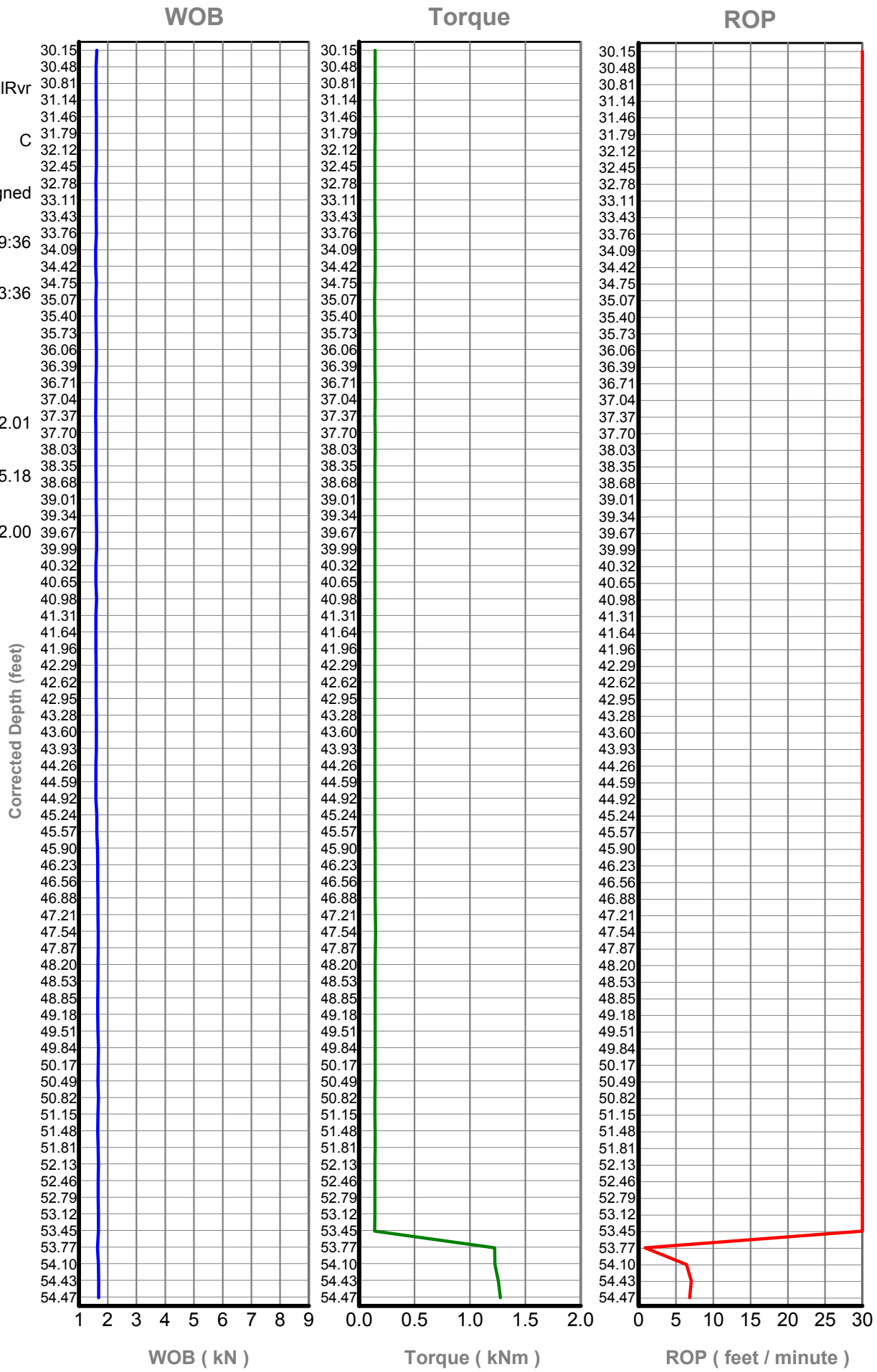
**End Date:**
4/29/2015 5:43:36

**Operator Note:**
'2 1.4 c Auto Complete'

**Northing:**
362,722.01

**Easting:**
246,705.18

**Tide (feet):**
2.00



## Hole: J28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:25:48 | 35.11 | 30.01 | 1,148 | 1.72 | 0.78 | 62.8 |
| 4/29/2015 20:25:48 | 35.43 | 30.33 | 1,128 | 1.80 | 0.78 | 61.7 |
| 4/29/2015 20:25:49 | 35.76 | 30.66 | 1,109 | 1.62 | 0.76 | 60.7 |
| 4/29/2015 20:25:49 | 36.09 | 30.99 | 1,109 | 1.62 | 0.76 | 60.7 |
| 4/29/2015 20:25:49 | 36.42 | 31.32 | 1,133 | 1.63 | 0.76 | 62.0 |
| 4/29/2015 20:25:50 | 36.75 | 31.65 | 1,133 | 1.63 | 0.76 | 62.0 |
| 4/29/2015 20:25:50 | 37.07 | 31.97 | 1,145 | 1.64 | 0.76 | 62.6 |
| 4/29/2015 20:25:50 | 37.40 | 32.30 | 1,145 | 1.64 | 0.76 | 62.6 |
| 4/29/2015 20:25:51 | 37.73 | 32.63 | 1,157 | 1.63 | 0.78 | 63.2 |
| 4/29/2015 20:25:51 | 38.06 | 32.96 | 1,164 | 1.62 | 0.77 | 63.6 |
| 4/29/2015 20:25:52 | 38.39 | 33.29 | 1,164 | 1.62 | 0.77 | 63.6 |
| 4/29/2015 20:25:52 | 38.71 | 33.61 | 1,190 | 1.65 | 0.77 | 65.1 |
| 4/29/2015 20:25:52 | 39.04 | 33.94 | 1,190 | 1.65 | 0.77 | 65.1 |
| 4/29/2015 20:25:52 | 39.37 | 34.27 | 1,158 | 1.62 | 0.78 | 63.3 |
| 4/29/2015 20:25:53 | 39.70 | 34.60 | 1,158 | 1.33 | 0.76 | 63.3 |
| 4/29/2015 20:25:53 | 40.03 | 34.93 | 1,158 | 1.33 | 0.76 | 63.3 |
| 4/29/2015 20:25:53 | 40.35 | 35.25 | 1,169 | 1.70 | 0.76 | 63.9 |
| 4/29/2015 20:25:54 | 40.68 | 35.58 | 1,169 | 1.70 | 0.76 | 63.9 |
| 4/29/2015 20:25:54 | 41.01 | 35.91 | 1,175 | 1.68 | 0.76 | 64.3 |
| 4/29/2015 20:25:54 | 41.34 | 36.24 | 1,175 | 1.68 | 0.76 | 64.3 |
| 4/29/2015 20:25:54 | 41.67 | 36.57 | 1,184 | 1.44 | 0.77 | 64.7 |
| 4/29/2015 20:25:55 | 41.99 | 36.89 | 1,169 | 1.62 | 0.78 | 63.9 |
| 4/29/2015 20:25:55 | 42.32 | 37.22 | 1,169 | 1.62 | 0.78 | 63.9 |
| 4/29/2015 20:25:55 | 42.65 | 37.55 | 1,174 | 1.59 | 0.76 | 64.2 |
| 4/29/2015 20:25:56 | 42.98 | 37.88 | 1,140 | 1.64 | 0.77 | 62.3 |
| 4/29/2015 20:25:56 | 43.31 | 38.21 | 1,140 | 1.64 | 0.77 | 62.3 |
| 4/29/2015 20:25:56 | 43.64 | 38.54 | 1,122 | 1.47 | 0.76 | 61.4 |
| 4/29/2015 20:25:57 | 43.96 | 38.86 | 1,122 | 1.47 | 0.76 | 61.4 |
| 4/29/2015 20:25:57 | 44.29 | 39.19 | 1,106 | 1.65 | 0.76 | 60.5 |
| 4/29/2015 20:25:57 | 44.62 | 39.52 | 1,108 | 1.60 | 0.77 | 60.6 |
| 4/29/2015 20:25:58 | 44.95 | 39.85 | 1,108 | 1.60 | 0.77 | 60.6 |
| 4/29/2015 20:25:58 | 45.28 | 40.18 | 1,125 | 1.65 | 0.77 | 61.5 |
| 4/29/2015 20:25:58 | 45.60 | 40.50 | 1,125 | 1.65 | 0.77 | 61.5 |
| 4/29/2015 20:25:58 | 45.93 | 40.83 | 1,145 | 1.63 | 0.77 | 62.6 |
| 4/29/2015 20:25:59 | 46.26 | 41.16 | 1,154 | 1.64 | 0.76 | 63.1 |
| 4/29/2015 20:25:59 | 46.59 | 41.49 | 1,154 | 1.64 | 0.76 | 63.1 |
| 4/29/2015 20:25:59 | 46.92 | 41.82 | 1,171 | 1.64 | 0.76 | 64.0 |
| 4/29/2015 20:26:00 | 47.24 | 42.14 | 1,171 | 1.64 | 0.76 | 64.0 |
| 4/29/2015 20:26:00 | 47.57 | 42.47 | 1,177 | 1.64 | 0.76 | 64.3 |
| 4/29/2015 20:26:00 | 47.90 | 42.80 | 1,159 | 1.09 | 0.90 | 63.4 |
| 4/29/2015 20:26:23 | 48.23 | 43.13 | 91 | 1.10 | 1.13 | 5.0 |
| 4/29/2015 20:26:23 | 48.56 | 43.46 | 168 | 1.05 | 0.73 | 9.2 |
| 4/29/2015 20:26:24 | 48.88 | 43.78 | 397 | 1.01 | 0.78 | 21.7 |
| 4/29/2015 20:26:25 | 49.21 | 44.11 | 463 | 1.05 | 0.78 | 25.3 |
| 4/29/2015 20:26:25 | 49.54 | 44.44 | 526 | 1.06 | 0.77 | 28.8 |
| 4/29/2015 20:26:38 | 49.87 | 44.77 | 20 | 1.87 | 1.41 | 1.1 |
| 4/29/2015 20:26:39 | 50.20 | 45.10 | 20 | 1.87 | 1.41 | 1.1 |
| 4/29/2015 20:26:46 | 50.53 | 45.43 | 9 | 1.14 | 1.54 | 0.5 |
| 4/29/2015 20:26:52 | 50.85 | 45.75 | 22 | 2.21 | 1.38 | 1.2 |
| 4/29/2015 20:26:52 | 51.18 | 46.08 | 132 | 1.08 | 0.94 | 7.2 |
| 4/29/2015 20:27:00 | 51.51 | 46.41 | 79 | 1.03 | 1.59 | 4.3 |
| 4/29/2015 20:27:02 | 51.84 | 46.74 | 222 | 1.65 | 1.24 | 12.1 |
| 4/29/2015 20:27:03 | 52.17 | 47.07 | 207 | 1.04 | 1.15 | 11.3 |
| 4/29/2015 20:27:05 | 52.49 | 47.39 | 283 | 1.08 | 1.44 | 15.5 |
| 4/29/2015 20:27:06 | 52.82 | 47.72 | 273 | 1.07 | 1.22 | 14.9 |
| 4/29/2015 20:27:07 | 53.15 | 48.05 | 261 | 1.07 | 1.27 | 14.3 |
| 4/29/2015 20:27:21 | 53.48 | 48.38 | 43 | 1.07 | 1.03 | 2.3 |
| 4/29/2015 20:27:29 | 53.81 | 48.71 | 42 | 0.96 | 0.89 | 2.3 |
| 4/29/2015 20:27:41 | 54.13 | 49.03 | 38 | 1.05 | 0.94 | 2.1 |
| 4/29/2015 20:27:50 | 54.46 | 49.36 | 39 | 1.01 | 0.84 | 2.1 |
| 4/29/2015 20:28:17 | 54.57 | 49.47 | 0 | 0.35 | 1.67 | 0.0 |

## J28 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:23:02

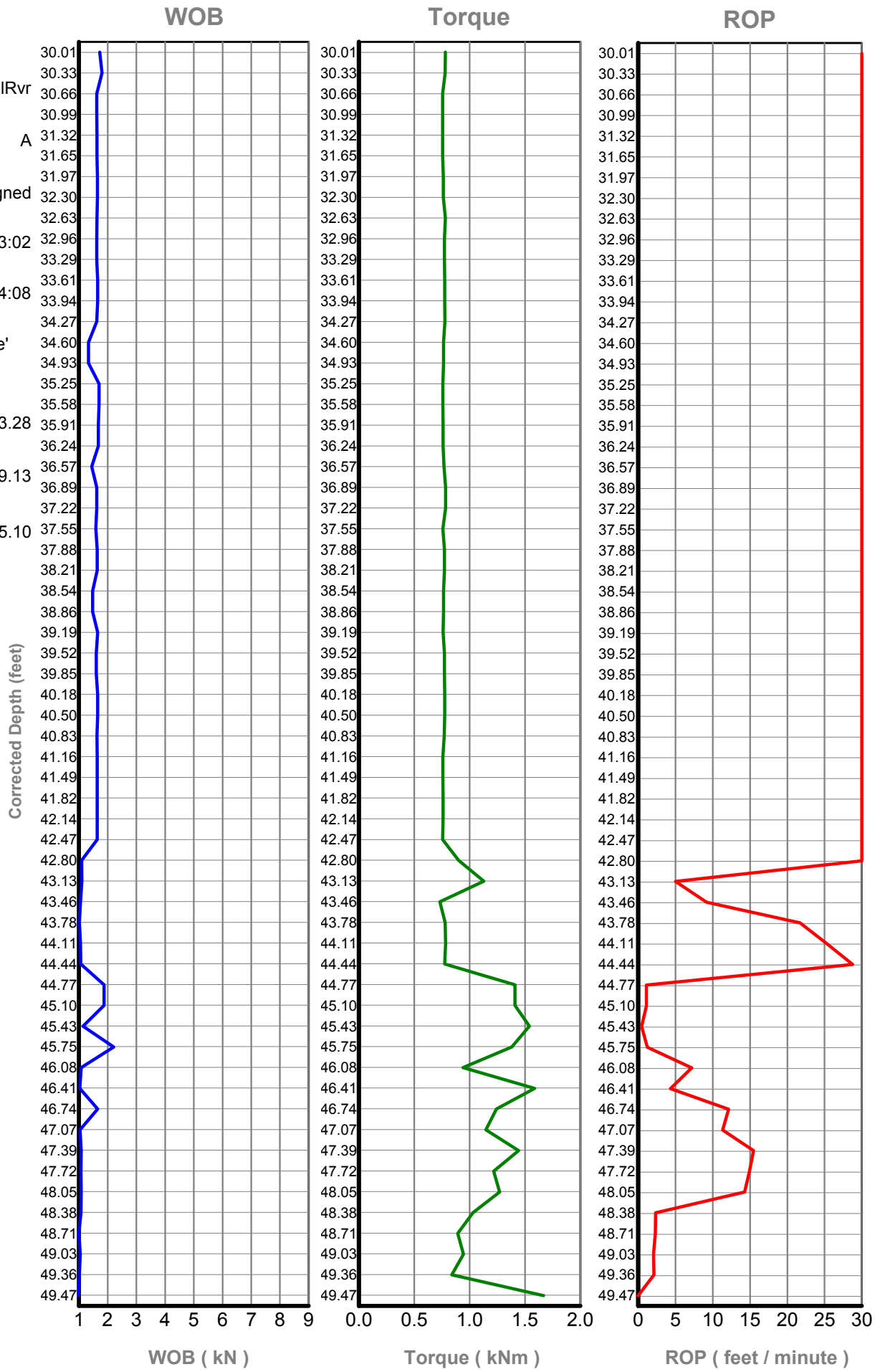
**End Date:**
4/29/2015 20:34:08

**Operator Note:**
'5.1 4.9 b Auto Complete'

**Northing:**
362,293.28

**Easting:**
246,289.13

**Tide (feet):**
5.10



## Hole: J29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:25:57 | 35.11 | 30.01 | 1,064 | 0.35 | 0.39 | 58.2 |
| 4/29/2015 20:25:57 | 35.43 | 30.33 | 1,080 | 0.35 | 0.39 | 59.0 |
| 4/29/2015 20:25:57 | 35.76 | 30.66 | 1,074 | 0.35 | 0.39 | 58.7 |
| 4/29/2015 20:25:58 | 36.09 | 30.99 | 1,074 | 0.35 | 0.39 | 58.7 |
| 4/29/2015 20:25:58 | 36.42 | 31.32 | 1,068 | 0.35 | 0.39 | 58.4 |
| 4/29/2015 20:25:58 | 36.75 | 31.65 | 1,065 | 0.39 | 0.39 | 58.2 |
| 4/29/2015 20:25:59 | 37.07 | 31.97 | 1,065 | 0.39 | 0.39 | 58.2 |
| 4/29/2015 20:25:59 | 37.40 | 32.30 | 1,086 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 20:25:59 | 37.73 | 32.63 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/29/2015 20:26:00 | 38.06 | 32.96 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/29/2015 20:26:00 | 38.39 | 33.29 | 1,064 | 0.35 | 0.39 | 58.2 |
| 4/29/2015 20:26:00 | 38.71 | 33.61 | 1,064 | 0.35 | 0.39 | 58.2 |
| 4/29/2015 20:26:00 | 39.04 | 33.94 | 1,066 | 0.34 | 0.39 | 58.3 |
| 4/29/2015 20:26:01 | 39.37 | 34.27 | 1,079 | 0.35 | 0.39 | 59.0 |
| 4/29/2015 20:26:02 | 39.70 | 34.60 | 1,079 | 0.35 | 0.39 | 59.0 |
| 4/29/2015 20:26:01 | 40.03 | 34.93 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/29/2015 20:26:02 | 40.35 | 35.25 | 1,044 | 0.34 | 0.39 | 57.1 |
| 4/29/2015 20:26:02 | 40.68 | 35.58 | 1,044 | 0.34 | 0.39 | 57.1 |
| 4/29/2015 20:26:02 | 41.01 | 35.91 | 1,064 | 0.34 | 0.39 | 58.2 |
| 4/29/2015 20:26:03 | 41.34 | 36.24 | 1,070 | 0.34 | 0.39 | 58.5 |
| 4/29/2015 20:26:03 | 41.67 | 36.57 | 1,070 | 0.34 | 0.39 | 58.5 |
| 4/29/2015 20:26:03 | 41.99 | 36.89 | 1,073 | 0.34 | 0.39 | 58.7 |
| 4/29/2015 20:26:04 | 42.32 | 37.22 | 1,073 | 0.34 | 0.39 | 58.7 |
| 4/29/2015 20:26:04 | 42.65 | 37.55 | 1,070 | 0.35 | 0.39 | 58.5 |
| 4/29/2015 20:26:05 | 42.98 | 37.88 | 1,095 | 0.34 | 0.39 | 59.9 |
| 4/29/2015 20:26:05 | 43.31 | 38.21 | 1,095 | 0.34 | 0.39 | 59.9 |
| 4/29/2015 20:26:05 | 43.64 | 38.54 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/29/2015 20:26:06 | 43.96 | 38.86 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/29/2015 20:26:06 | 44.29 | 39.19 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/29/2015 20:26:06 | 44.62 | 39.52 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/29/2015 20:26:07 | 44.95 | 39.85 | 1,077 | 0.34 | 0.39 | 58.9 |
| 4/29/2015 20:26:07 | 45.28 | 40.18 | 1,077 | 0.34 | 0.39 | 58.9 |
| 4/29/2015 20:26:07 | 45.60 | 40.50 | 1,087 | 0.34 | 0.39 | 59.4 |
| 4/29/2015 20:26:08 | 45.93 | 40.83 | 1,087 | 0.34 | 0.39 | 59.4 |
| 4/29/2015 20:26:08 | 46.26 | 41.16 | 1,084 | 0.35 | 0.39 | 59.3 |
| 4/29/2015 20:26:08 | 46.59 | 41.49 | 1,084 | 0.34 | 0.39 | 59.3 |
| 4/29/2015 20:26:09 | 46.92 | 41.82 | 1,084 | 0.34 | 0.39 | 59.3 |
| 4/29/2015 20:26:09 | 47.24 | 42.14 | 1,090 | 0.34 | 0.39 | 59.6 |
| 4/29/2015 20:26:09 | 47.57 | 42.47 | 1,093 | 0.34 | 0.39 | 59.8 |
| 4/29/2015 20:26:10 | 47.90 | 42.80 | 1,093 | 0.34 | 0.39 | 59.8 |
| 4/29/2015 20:26:10 | 48.23 | 43.13 | 1,087 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 20:26:10 | 48.56 | 43.46 | 1,087 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 20:26:10 | 48.88 | 43.78 | 1,087 | 0.34 | 0.39 | 59.4 |
| 4/29/2015 20:26:14 | 49.21 | 44.11 | 0 | 3.67 | 0.46 | 0.0 |
| 4/29/2015 20:26:20 | 49.54 | 44.44 | 56 | 3.53 | 0.47 | 3.1 |
| 4/29/2015 20:26:21 | 49.87 | 44.77 | 64 | 3.39 | 0.40 | 3.5 |
| 4/29/2015 20:26:22 | 50.20 | 45.10 | 180 | 2.97 | 0.42 | 9.8 |
| 4/29/2015 20:26:25 | 50.53 | 45.43 | 40 | 4.22 | 0.46 | 2.2 |
| 4/29/2015 20:26:29 | 50.85 | 45.75 | 35 | 4.91 | 0.45 | 1.9 |
| 4/29/2015 20:26:30 | 51.18 | 46.08 | 119 | 3.89 | 0.44 | 6.5 |
| 4/29/2015 20:26:31 | 51.51 | 46.41 | 313 | 2.78 | 0.42 | 17.1 |
| 4/29/2015 20:26:31 | 51.84 | 46.74 | 313 | 2.78 | 0.42 | 17.1 |
| 4/29/2015 20:26:35 | 52.17 | 47.07 | 86 | 2.81 | 0.42 | 4.7 |
| 4/29/2015 20:26:36 | 52.49 | 47.39 | 227 | 5.12 | 0.47 | 12.4 |
| 4/29/2015 20:26:39 | 52.82 | 47.72 | 81 | 4.31 | 0.47 | 4.4 |
| 4/29/2015 20:26:41 | 53.15 | 48.05 | 149 | 4.32 | 0.48 | 8.1 |
| 4/29/2015 20:26:54 | 53.48 | 48.38 | 0 | 5.12 | 0.46 | 0.0 |
| 4/29/2015 20:26:55 | 53.81 | 48.71 | 97 | 4.60 | 0.46 | 5.3 |
| 4/29/2015 20:26:56 | 54.13 | 49.03 | 294 | 2.94 | 0.44 | 16.1 |
| 4/29/2015 20:26:57 | 54.46 | 49.36 | 400 | 3.62 | 0.43 | 21.9 |
| 4/29/2015 20:26:57 | 54.79 | 49.69 | 470 | 3.10 | 0.43 | 25.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 20:26:58 | 55.12 | 50.02 | 526 | 3.50 | 0.43 | 28.8 |
| 4/29/2015 | 20:26:59 | 55.45 | 50.35 | 503 | 3.86 | 0.45 | 27.5 |
| 4/29/2015 | 20:27:00 | 55.77 | 50.67 | 323 | 4.19 | 0.46 | 17.7 |
| 4/29/2015 | 20:27:02 | 56.10 | 51.00 | 205 | 3.74 | 0.46 | 11.2 |
| 4/29/2015 | 20:27:04 | 56.43 | 51.33 | 205 | 3.69 | 0.46 | 11.2 |
| 4/29/2015 | 20:27:07 | 56.76 | 51.66 | 142 | 3.69 | 0.46 | 7.7 |
| 4/29/2015 | 20:27:09 | 57.09 | 51.99 | 133 | 3.83 | 0.47 | 7.3 |
| 4/29/2015 | 20:27:13 | 57.41 | 52.31 | 102 | 4.24 | 0.47 | 5.6 |
| 4/29/2015 | 20:27:16 | 57.74 | 52.64 | 104 | 3.86 | 0.47 | 5.7 |
| 4/29/2015 | 20:27:19 | 58.07 | 52.97 | 112 | 4.04 | 0.47 | 6.1 |
| 4/29/2015 | 20:27:22 | 58.40 | 53.30 | 139 | 3.76 | 0.47 | 7.6 |
| 4/29/2015 | 20:27:25 | 58.73 | 53.63 | 110 | 4.07 | 0.47 | 6.0 |
| 4/29/2015 | 20:27:28 | 59.06 | 53.96 | 128 | 4.13 | 0.47 | 7.0 |
| 4/29/2015 | 20:27:33 | 59.38 | 54.28 | 70 | 3.81 | 0.47 | 3.8 |
| 4/29/2015 | 20:27:39 | 59.71 | 54.61 | 78 | 4.19 | 0.48 | 4.3 |
| 4/29/2015 | 20:27:41 | 59.90 | 54.80 | 87 | 4.05 | 0.48 | 4.7 |

## J29 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:24:19

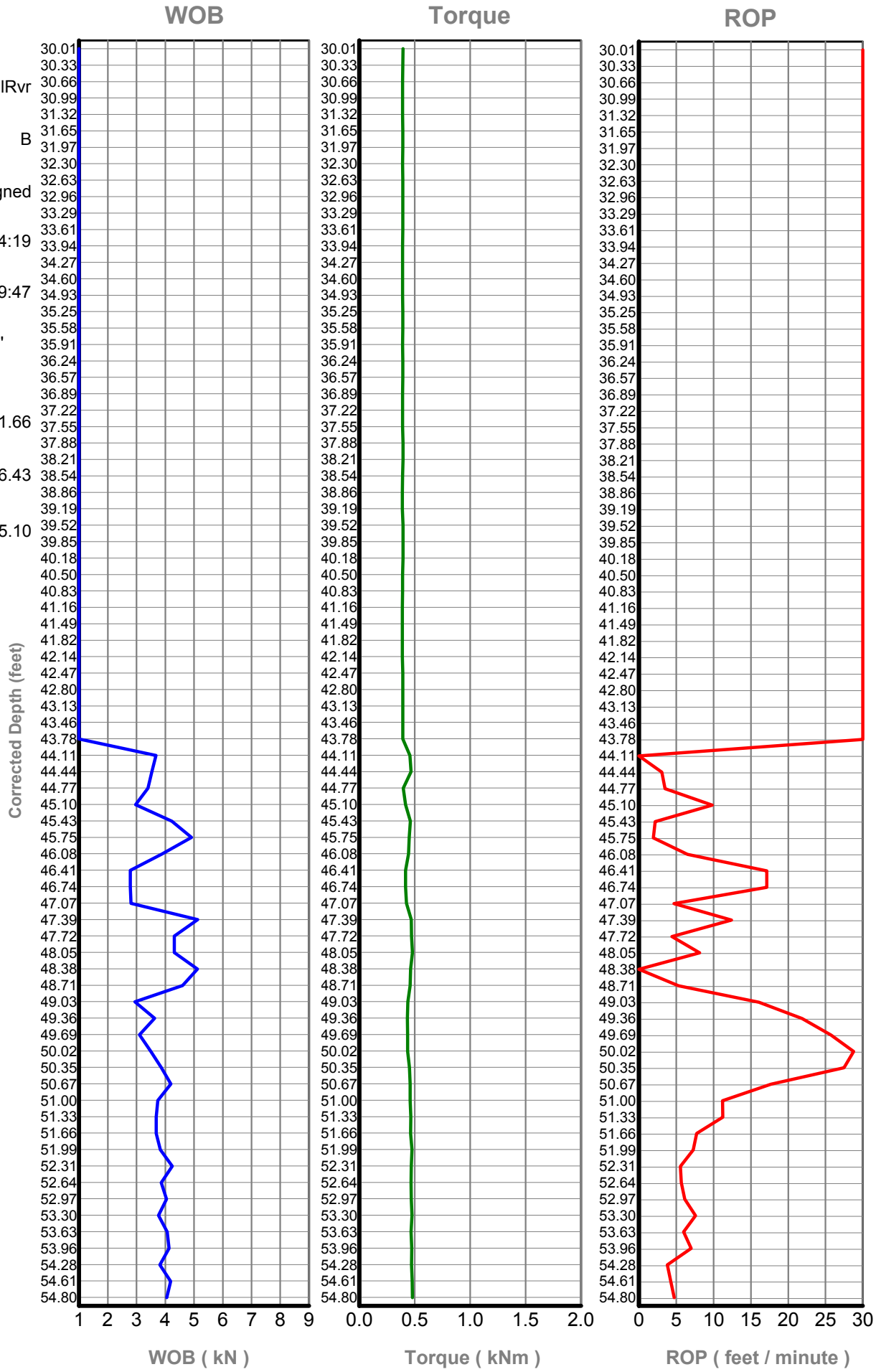
**End Date:**
4/29/2015 20:29:47

**Operator Note:**
'5.1 4.9b Auto Complete'

**Northing:**
362,341.66

**Easting:**
246,346.43

**Tide (feet):**
5.10



## Hole: J3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 17:56:02 | 31.50 | 30.10 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:03 | 31.82 | 30.42 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:03 | 32.15 | 30.75 | 1,207 | 1.14 | 0.29 | 66.0 |
| 4/29/2015 17:56:03 | 32.48 | 31.08 | 1,207 | 1.14 | 0.29 | 66.0 |
| 4/29/2015 17:56:03 | 32.81 | 31.41 | 1,207 | 1.14 | 0.29 | 66.0 |
| 4/29/2015 17:56:04 | 33.14 | 31.74 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:04 | 33.46 | 32.06 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:04 | 33.79 | 32.39 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:05 | 34.12 | 32.72 | 1,204 | 1.14 | 0.29 | 65.8 |
| 4/29/2015 17:56:05 | 34.45 | 33.05 | 1,198 | 1.14 | 0.29 | 65.5 |
| 4/29/2015 17:56:05 | 34.78 | 33.38 | 1,198 | 1.14 | 0.29 | 65.5 |
| 4/29/2015 17:56:05 | 35.11 | 33.71 | 1,195 | 1.14 | 0.29 | 65.3 |
| 4/29/2015 17:56:06 | 35.43 | 34.03 | 1,182 | 1.14 | 0.29 | 64.7 |
| 4/29/2015 17:56:06 | 35.76 | 34.36 | 1,182 | 1.14 | 0.29 | 64.7 |
| 4/29/2015 17:56:06 | 36.09 | 34.69 | 1,186 | 1.14 | 0.29 | 64.9 |
| 4/29/2015 17:56:07 | 36.42 | 35.02 | 1,186 | 1.14 | 0.29 | 64.9 |
| 4/29/2015 17:56:07 | 36.75 | 35.35 | 1,179 | 1.14 | 0.29 | 64.5 |
| 4/29/2015 17:56:07 | 37.07 | 35.67 | 1,179 | 1.14 | 0.29 | 64.5 |
| 4/29/2015 17:56:07 | 37.40 | 36.00 | 1,187 | 1.14 | 0.29 | 64.9 |
| 4/29/2015 17:56:08 | 37.73 | 36.33 | 1,187 | 1.14 | 0.29 | 64.9 |
| 4/29/2015 17:56:08 | 38.06 | 36.66 | 1,187 | 1.14 | 0.29 | 64.9 |
| 4/29/2015 17:56:08 | 38.39 | 36.99 | 1,190 | 1.14 | 0.29 | 65.0 |
| 4/29/2015 17:56:09 | 38.71 | 37.31 | 1,190 | 1.14 | 0.29 | 65.0 |
| 4/29/2015 17:56:09 | 39.04 | 37.64 | 1,177 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 17:56:10 | 39.37 | 37.97 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 17:56:10 | 39.70 | 38.30 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 17:56:10 | 40.03 | 38.63 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 17:56:11 | 40.35 | 38.95 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 17:56:11 | 40.68 | 39.28 | 959 | 1.14 | 0.29 | 52.4 |
| 4/29/2015 17:57:01 | 41.01 | 39.61 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 17:57:50 | 41.34 | 39.94 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 17:57:01 | 41.67 | 40.27 | 226 | 1.14 | 0.29 | 12.4 |
| 4/29/2015 17:57:02 | 41.99 | 40.59 | 453 | 1.14 | 0.29 | 24.8 |
| 4/29/2015 17:57:02 | 42.32 | 40.92 | 453 | 1.14 | 0.29 | 24.8 |
| 4/29/2015 17:57:02 | 42.65 | 41.25 | 673 | 1.14 | 0.29 | 36.8 |
| 4/29/2015 17:57:03 | 42.98 | 41.58 | 673 | 1.14 | 0.29 | 36.8 |
| 4/29/2015 17:57:03 | 43.31 | 41.91 | 897 | 1.14 | 0.29 | 49.0 |
| 4/29/2015 17:59:08 | 43.64 | 42.24 | 33 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 17:59:08 | 43.96 | 42.56 | 156 | 1.14 | 0.29 | 8.5 |
| 4/29/2015 17:59:09 | 44.29 | 42.89 | 156 | 1.14 | 0.29 | 8.5 |
| 4/29/2015 17:59:10 | 44.62 | 43.22 | 328 | 1.14 | 0.29 | 17.9 |
| 4/29/2015 17:59:43 | 44.95 | 43.55 | 62 | 1.14 | 0.29 | 3.4 |
| 4/29/2015 17:59:44 | 45.28 | 43.88 | 199 | 1.14 | 0.29 | 10.9 |
| 4/29/2015 17:59:45 | 45.60 | 44.20 | 325 | 1.14 | 0.29 | 17.8 |
| 4/29/2015 18:00:28 | 45.93 | 44.53 | 72 | 1.14 | 0.29 | 3.9 |
| 4/29/2015 18:00:29 | 46.26 | 44.86 | 190 | 1.14 | 0.29 | 10.4 |
| 4/29/2015 18:00:30 | 46.59 | 45.19 | 349 | 1.14 | 0.29 | 19.1 |
| 4/29/2015 18:00:31 | 46.92 | 45.52 | 424 | 1.14 | 0.29 | 23.2 |
| 4/29/2015 18:00:31 | 47.24 | 45.84 | 491 | 1.14 | 0.29 | 26.9 |
| 4/29/2015 18:01:24 | 47.57 | 46.17 | 9 | 1.14 | 0.29 | 0.5 |
| 4/29/2015 18:01:25 | 47.90 | 46.50 | 132 | 1.14 | 0.29 | 7.2 |
| 4/29/2015 18:01:25 | 48.23 | 46.83 | 261 | 1.14 | 0.29 | 14.3 |
| 4/29/2015 18:01:26 | 48.56 | 47.16 | 402 | 1.14 | 0.29 | 22.0 |
| 4/29/2015 18:01:38 | 48.88 | 47.48 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 18:01:39 | 49.21 | 47.81 | 202 | 1.14 | 0.29 | 11.1 |
| 4/29/2015 18:01:40 | 49.54 | 48.14 | 339 | 1.14 | 0.29 | 18.5 |
| 4/29/2015 18:02:09 | 49.87 | 48.47 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 18:02:10 | 50.20 | 48.80 | 112 | 1.14 | 0.29 | 6.1 |
| 4/29/2015 18:02:11 | 50.53 | 49.13 | 194 | 1.14 | 0.29 | 10.6 |
| 4/29/2015 18:02:11 | 50.85 | 49.45 | 302 | 1.14 | 0.29 | 16.5 |
| 4/29/2015 18:02:12 | 51.18 | 49.78 | 420 | 1.14 | 0.29 | 23.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 18:02:12 | 51.51 | 50.11 | 493 | 1.14 | 0.29 | 26.9 |
| 4/29/2015 | 18:02:13 | 51.84 | 50.44 | 592 | 1.14 | 0.29 | 32.4 |
| 4/29/2015 | 18:02:13 | 52.17 | 50.77 | 658 | 1.14 | 0.29 | 36.0 |
| 4/29/2015 | 18:02:58 | 52.49 | 51.09 | 134 | 1.14 | 0.29 | 7.3 |
| 4/29/2015 | 18:02:59 | 52.82 | 51.42 | 225 | 1.14 | 0.29 | 12.3 |
| 4/29/2015 | 18:03:00 | 53.15 | 51.75 | 402 | 1.14 | 0.29 | 22.0 |
| 4/29/2015 | 18:03:07 | 53.48 | 52.08 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 | 18:03:11 | 53.81 | 52.41 | 101 | 1.14 | 0.29 | 5.5 |
| 4/29/2015 | 18:03:14 | 54.13 | 52.73 | 93 | 1.14 | 0.29 | 5.1 |
| 4/29/2015 | 18:03:18 | 54.46 | 53.06 | 97 | 1.14 | 0.29 | 5.3 |
| 4/29/2015 | 18:03:22 | 54.79 | 53.39 | 94 | 1.14 | 0.29 | 5.1 |
| 4/29/2015 | 18:03:26 | 55.12 | 53.72 | 83 | 1.14 | 0.29 | 4.5 |
| 4/29/2015 | 18:03:31 | 55.45 | 54.05 | 84 | 1.14 | 0.29 | 4.6 |
| 4/29/2015 | 18:03:35 | 55.77 | 54.37 | 76 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 | 18:05:34 | 56.10 | 54.70 | 0 | 1.14 | 0.29 | 0.0 |

## J3 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 17:54:39

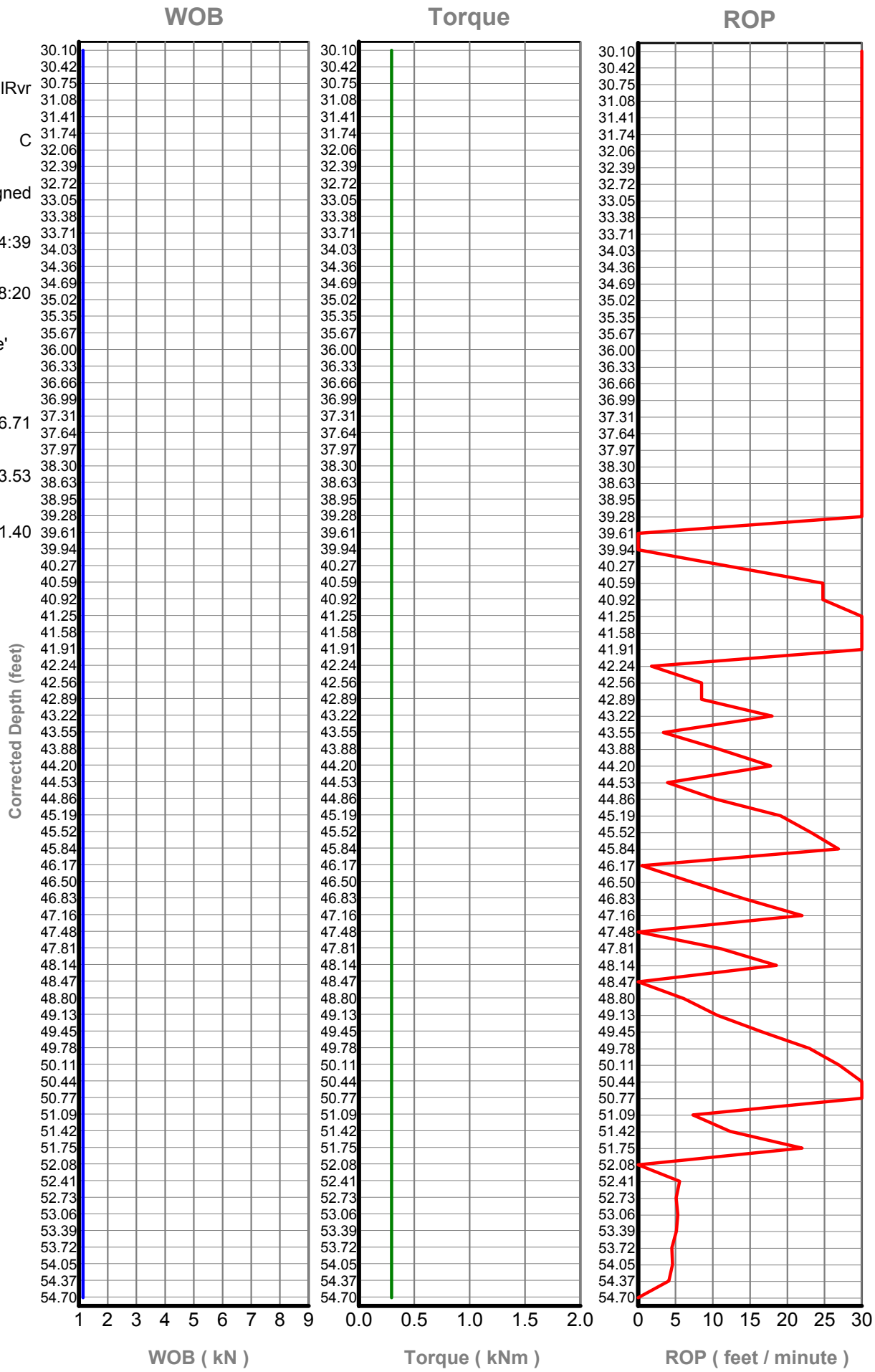
**End Date:**
4/29/2015 18:08:20

**Operator Note:**
'1.4 1.0 c Auto Complete'

**Northing:**
362,566.71

**Easting:**
246,263.53

**Tide (feet):**
1.40



## Hole: J30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 20:25:40 | 35.11 | 30.01 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 20:25:41 | 35.43 | 30.33 | 1,138 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 20:25:41 | 35.76 | 30.66 | 1,138 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 20:25:41 | 36.09 | 30.99 | 1,136 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 20:25:42 | 36.42 | 31.32 | 1,136 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 20:25:42 | 36.75 | 31.65 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 20:25:42 | 37.07 | 31.97 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 20:25:43 | 37.40 | 32.30 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 20:25:43 | 37.73 | 32.63 | 1,144 | 1.14 | 0.29 | 62.6 |
| 4/29/2015 20:25:43 | 38.06 | 32.96 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 20:25:44 | 38.39 | 33.29 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 20:25:44 | 38.71 | 33.61 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 20:25:44 | 39.04 | 33.94 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 20:25:44 | 39.37 | 34.27 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 20:25:45 | 39.70 | 34.60 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 20:25:49 | 40.03 | 34.93 | 3 | 1.14 | 0.29 | 0.2 |
| 4/29/2015 20:25:49 | 40.35 | 35.25 | 180 | 1.14 | 0.29 | 9.8 |
| 4/29/2015 20:25:50 | 40.68 | 35.58 | 180 | 1.14 | 0.29 | 9.8 |
| 4/29/2015 20:25:50 | 41.01 | 35.91 | 404 | 1.14 | 0.29 | 22.1 |
| 4/29/2015 20:25:50 | 41.34 | 36.24 | 624 | 1.14 | 0.29 | 34.1 |
| 4/29/2015 20:25:51 | 41.67 | 36.57 | 624 | 1.14 | 0.29 | 34.1 |
| 4/29/2015 20:25:51 | 41.99 | 36.89 | 850 | 1.14 | 0.29 | 46.5 |
| 4/29/2015 20:25:51 | 42.32 | 37.22 | 850 | 1.14 | 0.29 | 46.5 |
| 4/29/2015 20:25:51 | 42.65 | 37.55 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 20:25:52 | 42.98 | 37.88 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 20:25:52 | 43.31 | 38.21 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 20:25:52 | 43.64 | 38.54 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 20:25:53 | 43.96 | 38.86 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 20:25:53 | 44.29 | 39.19 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 20:25:53 | 44.62 | 39.52 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:54 | 44.95 | 39.85 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:54 | 45.28 | 40.18 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 20:25:54 | 45.60 | 40.50 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:55 | 45.93 | 40.83 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:55 | 46.26 | 41.16 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:55 | 46.59 | 41.49 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:56 | 46.92 | 41.82 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:56 | 47.24 | 42.14 | 1,116 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 20:25:56 | 47.57 | 42.47 | 1,116 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 20:25:56 | 47.90 | 42.80 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 20:25:57 | 48.23 | 43.13 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:57 | 48.56 | 43.46 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 20:25:57 | 48.88 | 43.78 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 20:25:58 | 49.21 | 44.11 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 20:25:58 | 49.54 | 44.44 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 20:25:58 | 49.87 | 44.77 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 20:26:25 | 50.20 | 45.10 | 74 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 20:26:25 | 50.53 | 45.43 | 174 | 1.14 | 0.29 | 9.5 |
| 4/29/2015 20:26:26 | 50.85 | 45.75 | 290 | 1.14 | 0.29 | 15.8 |
| 4/29/2015 20:26:30 | 51.18 | 46.08 | 9 | 1.14 | 0.29 | 0.5 |
| 4/29/2015 20:26:31 | 51.51 | 46.41 | 128 | 1.14 | 0.29 | 7.0 |
| 4/29/2015 20:26:32 | 51.84 | 46.74 | 288 | 1.14 | 0.29 | 15.8 |
| 4/29/2015 20:26:33 | 52.17 | 47.07 | 368 | 1.14 | 0.29 | 20.1 |
| 4/29/2015 20:26:43 | 52.49 | 47.39 | 62 | 1.14 | 0.29 | 3.4 |
| 4/29/2015 20:26:44 | 52.82 | 47.72 | 124 | 1.14 | 0.29 | 6.8 |
| 4/29/2015 20:26:45 | 53.15 | 48.05 | 295 | 1.14 | 0.29 | 16.1 |
| 4/29/2015 20:26:46 | 53.48 | 48.38 | 378 | 1.14 | 0.29 | 20.7 |
| 4/29/2015 20:26:49 | 53.81 | 48.71 | 159 | 1.14 | 0.29 | 8.7 |
| 4/29/2015 20:26:58 | 54.13 | 49.03 | 40 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 20:27:06 | 54.46 | 49.36 | 55 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 20:27:14 | 54.79 | 49.69 | 47 | 1.14 | 0.29 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 20:27:17 | 54.94 | 49.84 | 44 | 1.14 | 0.29 | 2.4 | |

## J30 - Summary

**Pattern Number:**
AreaJ_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 20:24:25

**End Date:**
4/29/2015 20:28:58

**Operator Note:**
'5.1 4.9 c Auto Complete'

**Northing:**
362,390.05

**Easting:**
246,403.74

**Tide (feet):**
5.10



## Hole: J31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:26:07 | 33.14 | 30.04 | 697 | 1.11 | 0.81 | 38.1 |
| 4/29/2015 6:26:08 | 33.46 | 30.36 | 700 | 1.12 | 0.82 | 38.3 |
| 4/29/2015 6:26:08 | 33.79 | 30.69 | 694 | 1.13 | 0.80 | 37.9 |
| 4/29/2015 6:26:09 | 34.12 | 31.02 | 697 | 1.12 | 0.81 | 38.1 |
| 4/29/2015 6:26:09 | 34.45 | 31.35 | 688 | 1.13 | 0.82 | 37.6 |
| 4/29/2015 6:26:10 | 34.78 | 31.68 | 697 | 1.13 | 0.80 | 38.1 |
| 4/29/2015 6:26:10 | 35.11 | 32.01 | 694 | 1.13 | 0.81 | 38.0 |
| 4/29/2015 6:26:11 | 35.43 | 32.33 | 697 | 1.11 | 0.81 | 38.1 |
| 4/29/2015 6:26:11 | 35.76 | 32.66 | 697 | 1.12 | 0.80 | 38.1 |
| 4/29/2015 6:26:12 | 36.09 | 32.99 | 698 | 1.13 | 0.80 | 38.2 |
| 4/29/2015 6:26:12 | 36.42 | 33.32 | 694 | 1.13 | 0.80 | 37.9 |
| 4/29/2015 6:26:13 | 36.75 | 33.65 | 694 | 1.13 | 0.27 | 37.9 |
| 4/29/2015 6:26:14 | 37.07 | 33.97 | 690 | 1.13 | 0.21 | 37.7 |
| 4/29/2015 6:26:14 | 37.40 | 34.30 | 697 | 1.14 | 0.21 | 38.1 |
| 4/29/2015 6:26:15 | 37.73 | 34.63 | 697 | 1.11 | 0.21 | 38.1 |
| 4/29/2015 6:26:15 | 38.06 | 34.96 | 697 | 1.14 | 0.21 | 38.1 |
| 4/29/2015 6:26:16 | 38.39 | 35.29 | 697 | 1.14 | 0.21 | 38.1 |
| 4/29/2015 6:26:16 | 38.71 | 35.61 | 697 | 1.13 | 0.21 | 38.1 |
| 4/29/2015 6:26:16 | 39.04 | 35.94 | 700 | 1.13 | 0.21 | 38.3 |
| 4/29/2015 6:26:17 | 39.37 | 36.27 | 700 | 1.13 | 0.21 | 38.3 |
| 4/29/2015 6:26:17 | 39.70 | 36.60 | 695 | 1.12 | 0.21 | 38.0 |
| 4/29/2015 6:26:18 | 40.03 | 36.93 | 699 | 1.11 | 0.21 | 38.2 |
| 4/29/2015 6:26:18 | 40.35 | 37.25 | 694 | 1.12 | 0.21 | 38.0 |
| 4/29/2015 6:26:19 | 40.68 | 37.58 | 699 | 1.13 | 0.20 | 38.2 |
| 4/29/2015 6:26:19 | 41.01 | 37.91 | 699 | 1.12 | 0.21 | 38.2 |
| 4/29/2015 6:26:20 | 41.34 | 38.24 | 697 | 1.13 | 0.21 | 38.1 |
| 4/29/2015 6:26:20 | 41.67 | 38.57 | 697 | 1.13 | 0.21 | 38.1 |
| 4/29/2015 6:26:21 | 41.99 | 38.89 | 697 | 1.14 | 0.21 | 38.1 |
| 4/29/2015 6:26:21 | 42.32 | 39.22 | 694 | 1.12 | 0.21 | 37.9 |
| 4/29/2015 6:26:22 | 42.65 | 39.55 | 691 | 1.13 | 0.21 | 37.8 |
| 4/29/2015 6:26:22 | 42.98 | 39.88 | 694 | 1.12 | 0.21 | 37.9 |
| 4/29/2015 6:26:23 | 43.31 | 40.21 | 689 | 1.13 | 0.21 | 37.7 |
| 4/29/2015 6:26:23 | 43.64 | 40.54 | 694 | 1.13 | 0.21 | 37.9 |
| 4/29/2015 6:26:24 | 43.96 | 40.86 | 690 | 1.12 | 0.21 | 37.7 |
| 4/29/2015 6:26:25 | 44.29 | 41.19 | 685 | 1.12 | 0.21 | 37.5 |
| 4/29/2015 6:26:25 | 44.62 | 41.52 | 674 | 1.12 | 0.21 | 36.9 |
| 4/29/2015 6:26:26 | 44.95 | 41.85 | 674 | 1.14 | 0.21 | 36.9 |
| 4/29/2015 6:26:26 | 45.28 | 42.18 | 686 | 1.11 | 0.21 | 37.5 |
| 4/29/2015 6:26:27 | 45.60 | 42.50 | 682 | 1.13 | 0.21 | 37.3 |
| 4/29/2015 6:26:27 | 45.93 | 42.83 | 689 | 1.13 | 0.21 | 37.7 |
| 4/29/2015 6:26:28 | 46.26 | 43.16 | 694 | 1.12 | 0.21 | 37.9 |
| 4/29/2015 6:26:28 | 46.59 | 43.49 | 699 | 1.13 | 0.21 | 38.2 |
| 4/29/2015 6:26:29 | 46.92 | 43.82 | 691 | 1.13 | 0.21 | 37.8 |
| 4/29/2015 6:26:29 | 47.24 | 44.14 | 688 | 1.12 | 0.21 | 37.6 |
| 4/29/2015 6:26:30 | 47.57 | 44.47 | 688 | 1.12 | 0.21 | 37.6 |
| 4/29/2015 6:26:30 | 47.90 | 44.80 | 688 | 1.06 | 0.21 | 37.6 |
| 4/29/2015 6:26:31 | 48.23 | 45.13 | 691 | 1.11 | 0.21 | 37.8 |
| 4/29/2015 6:26:32 | 48.56 | 45.46 | 631 | 1.19 | 0.20 | 34.5 |
| 4/29/2015 6:26:37 | 48.88 | 45.78 | 74 | 1.15 | 0.21 | 4.1 |
| 4/29/2015 6:26:38 | 49.21 | 46.11 | 237 | 1.21 | 0.22 | 13.0 |
| 4/29/2015 6:26:58 | 49.54 | 46.44 | 14 | 1.15 | 1.03 | 0.8 |
| 4/29/2015 6:26:59 | 49.87 | 46.77 | 197 | 1.17 | 1.02 | 10.8 |
| 4/29/2015 6:27:00 | 50.20 | 47.10 | 300 | 1.15 | 0.77 | 16.4 |
| 4/29/2015 6:27:00 | 50.53 | 47.43 | 415 | 1.19 | 0.86 | 22.7 |
| 4/29/2015 6:27:10 | 50.85 | 47.75 | 55 | 1.11 | 1.19 | 3.0 |
| 4/29/2015 6:27:11 | 51.18 | 48.08 | 162 | 1.10 | 1.56 | 8.9 |
| 4/29/2015 6:27:12 | 51.51 | 48.41 | 258 | 1.25 | 1.17 | 14.1 |
| 4/29/2015 6:27:15 | 51.84 | 48.74 | 185 | 1.17 | 1.72 | 10.1 |
| 4/29/2015 6:27:18 | 52.17 | 49.07 | 109 | 1.15 | 1.27 | 6.0 |
| 4/29/2015 6:27:30 | 52.49 | 49.39 | 33 | 1.75 | 1.65 | 1.8 |
| 4/29/2015 6:27:31 | 52.82 | 49.72 | 164 | 1.09 | 1.12 | 9.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:27:31 | 53.15 | 50.05 | 247 | 1.17 | 0.98 | 13.5 |
| 4/29/2015 | 6:27:40 | 53.48 | 50.38 | 63 | 1.13 | 1.03 | 3.4 |
| 4/29/2015 | 6:27:42 | 53.81 | 50.71 | 222 | 1.15 | 1.35 | 12.1 |
| 4/29/2015 | 6:27:45 | 54.13 | 51.03 | 113 | 1.13 | 1.32 | 6.2 |
| 4/29/2015 | 6:27:49 | 54.46 | 51.36 | 97 | 1.15 | 1.31 | 5.3 |
| 4/29/2015 | 6:27:51 | 54.79 | 51.69 | 158 | 1.13 | 1.20 | 8.6 |
| 4/29/2015 | 6:27:58 | 55.12 | 52.02 | 46 | 1.05 | 1.12 | 2.5 |
| 4/29/2015 | 6:28:00 | 55.45 | 52.35 | 183 | 1.08 | 1.24 | 10.0 |
| 4/29/2015 | 6:28:02 | 55.77 | 52.67 | 182 | 1.11 | 1.22 | 10.0 |
| 4/29/2015 | 6:28:09 | 56.10 | 53.00 | 104 | 1.12 | 1.18 | 5.7 |
| 4/29/2015 | 6:28:11 | 56.43 | 53.33 | 122 | 1.11 | 1.20 | 6.6 |
| 4/29/2015 | 6:28:15 | 56.76 | 53.66 | 101 | 0.92 | 1.32 | 5.5 |
| 4/29/2015 | 6:28:17 | 57.09 | 53.99 | 102 | 1.09 | 1.21 | 5.6 |
| 4/29/2015 | 6:28:20 | 57.41 | 54.31 | 173 | 1.09 | 1.15 | 9.5 |
| 4/29/2015 | 6:28:21 | 57.70 | 54.60 | 173 | 0.62 | 1.23 | 9.5 |

## J31 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 6:25:00

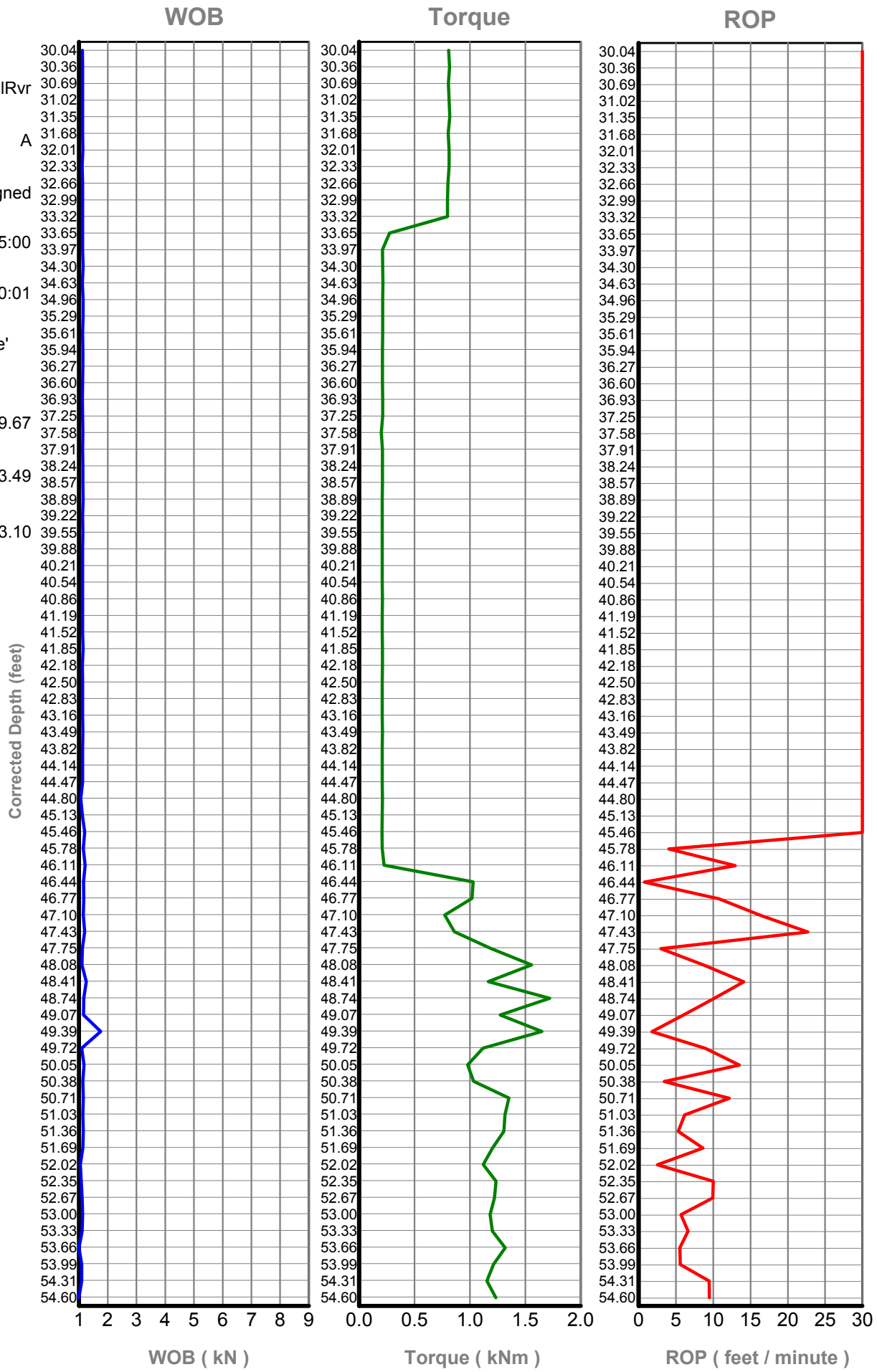
**End Date:**
4/29/2015 6:30:01

**Operator Note:**
'3.1 2.7 b Auto Complete'

**Northing:**
362,439.67

**Easting:**
246,463.49

**Tide (feet):**
3.10



## Hole: J32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:25:56 | 33.14 | 30.04 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:25:56 | 33.46 | 30.36 | 1,020 | 0.36 | 0.40 | 55.8 |
| 4/29/2015 6:25:56 | 33.79 | 30.69 | 1,018 | 0.36 | 0.39 | 55.6 |
| 4/29/2015 6:25:57 | 34.12 | 31.02 | 1,018 | 0.36 | 0.39 | 55.6 |
| 4/29/2015 6:25:57 | 34.45 | 31.35 | 1,020 | 0.36 | 0.39 | 55.8 |
| 4/29/2015 6:25:57 | 34.78 | 31.68 | 1,009 | 0.36 | 0.38 | 55.2 |
| 4/29/2015 6:25:58 | 35.11 | 32.01 | 1,009 | 0.36 | 0.38 | 55.2 |
| 4/29/2015 6:25:58 | 35.43 | 32.33 | 1,018 | 0.36 | 0.38 | 55.6 |
| 4/29/2015 6:25:58 | 35.76 | 32.66 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:25:59 | 36.09 | 32.99 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:25:59 | 36.42 | 33.32 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 6:25:59 | 36.75 | 33.65 | 1,012 | 0.36 | 0.38 | 55.3 |
| 4/29/2015 6:26:00 | 37.07 | 33.97 | 1,012 | 0.36 | 0.38 | 55.3 |
| 4/29/2015 6:26:00 | 37.40 | 34.30 | 1,021 | 0.35 | 0.38 | 55.8 |
| 4/29/2015 6:26:00 | 37.73 | 34.63 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:26:01 | 38.06 | 34.96 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:26:01 | 38.39 | 35.29 | 1,012 | 0.36 | 0.38 | 55.3 |
| 4/29/2015 6:26:01 | 38.71 | 35.61 | 1,012 | 0.36 | 0.38 | 55.3 |
| 4/29/2015 6:26:02 | 39.04 | 35.94 | 1,012 | 0.36 | 0.38 | 55.3 |
| 4/29/2015 6:26:02 | 39.37 | 36.27 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 6:26:02 | 39.70 | 36.60 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:03 | 40.03 | 36.93 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:03 | 40.35 | 37.25 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:04 | 40.68 | 37.58 | 1,023 | 0.36 | 0.38 | 56.0 |
| 4/29/2015 6:26:04 | 41.01 | 37.91 | 1,023 | 0.36 | 0.38 | 56.0 |
| 4/29/2015 6:26:04 | 41.34 | 38.24 | 1,023 | 0.36 | 0.39 | 56.0 |
| 4/29/2015 6:26:05 | 41.67 | 38.57 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:05 | 41.99 | 38.89 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:05 | 42.32 | 39.22 | 1,023 | 0.36 | 0.39 | 56.0 |
| 4/29/2015 6:26:06 | 42.65 | 39.55 | 1,023 | 0.36 | 0.39 | 56.0 |
| 4/29/2015 6:26:06 | 42.98 | 39.88 | 1,023 | 0.36 | 0.39 | 56.0 |
| 4/29/2015 6:26:06 | 43.31 | 40.21 | 1,021 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:07 | 43.64 | 40.54 | 1,018 | 0.36 | 0.39 | 55.6 |
| 4/29/2015 6:26:07 | 43.96 | 40.86 | 1,018 | 0.36 | 0.39 | 55.6 |
| 4/29/2015 6:26:07 | 44.29 | 41.19 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:08 | 44.62 | 41.52 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:26:08 | 44.95 | 41.85 | 1,012 | 0.36 | 0.39 | 55.3 |
| 4/29/2015 6:26:08 | 45.28 | 42.18 | 1,020 | 0.36 | 0.38 | 55.8 |
| 4/29/2015 6:26:09 | 45.60 | 42.50 | 1,023 | 0.36 | 0.38 | 56.0 |
| 4/29/2015 6:26:09 | 45.93 | 42.83 | 1,023 | 0.36 | 0.38 | 56.0 |
| 4/29/2015 6:26:09 | 46.26 | 43.16 | 1,026 | 0.36 | 0.38 | 56.1 |
| 4/29/2015 6:26:10 | 46.59 | 43.49 | 1,026 | 0.36 | 0.38 | 56.1 |
| 4/29/2015 6:26:10 | 46.92 | 43.82 | 1,026 | 0.36 | 0.38 | 56.1 |
| 4/29/2015 6:26:10 | 47.24 | 44.14 | 1,029 | 0.29 | 0.39 | 56.3 |
| 4/29/2015 6:26:11 | 47.57 | 44.47 | 1,029 | 0.36 | 0.38 | 56.3 |
| 4/29/2015 6:26:11 | 47.90 | 44.80 | 1,029 | 0.36 | 0.38 | 56.3 |
| 4/29/2015 6:26:11 | 48.23 | 45.13 | 1,032 | 0.36 | 0.40 | 56.4 |
| 4/29/2015 6:26:12 | 48.56 | 45.46 | 1,009 | 0.35 | 0.40 | 55.2 |
| 4/29/2015 6:26:12 | 48.88 | 45.78 | 985 | 0.35 | 0.40 | 53.9 |
| 4/29/2015 6:26:13 | 49.21 | 46.11 | 951 | 0.35 | 0.40 | 52.0 |
| 4/29/2015 6:26:13 | 49.54 | 46.44 | 951 | 0.35 | 0.40 | 52.0 |
| 4/29/2015 6:26:14 | 49.87 | 46.77 | 922 | 0.35 | 0.40 | 50.4 |
| 4/29/2015 6:26:14 | 50.20 | 47.10 | 887 | 0.35 | 0.40 | 48.5 |
| 4/29/2015 6:26:15 | 50.53 | 47.43 | 870 | 0.35 | 0.41 | 47.6 |
| 4/29/2015 6:26:15 | 50.85 | 47.75 | 850 | 0.33 | 0.45 | 46.5 |
| 4/29/2015 6:26:31 | 51.18 | 48.08 | 6 | 4.64 | 0.43 | 0.3 |
| 4/29/2015 6:26:31 | 51.51 | 48.41 | 85 | 3.68 | 0.42 | 4.7 |
| 4/29/2015 6:26:32 | 51.84 | 48.74 | 194 | 3.62 | 0.40 | 10.6 |
| 4/29/2015 6:26:38 | 52.17 | 49.07 | 77 | 4.64 | 0.46 | 4.2 |
| 4/29/2015 6:26:56 | 52.49 | 49.39 | 0 | 4.94 | 0.46 | 0.0 |
| 4/29/2015 6:26:59 | 52.82 | 49.72 | 119 | 3.75 | 0.45 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:27:01 | 53.15 | 50.05 | 82 | 7.06 | 0.45 | 4.5 |
| 4/29/2015 | 6:27:02 | 53.48 | 50.38 | 244 | 3.38 | 0.42 | 13.3 |
| 4/29/2015 | 6:27:03 | 53.81 | 50.71 | 344 | 4.01 | 0.44 | 18.8 |
| 4/29/2015 | 6:27:11 | 54.13 | 51.03 | 89 | 3.46 | 0.46 | 4.9 |
| 4/29/2015 | 6:27:14 | 54.46 | 51.36 | 86 | 3.69 | 0.46 | 4.7 |
| 4/29/2015 | 6:27:17 | 54.79 | 51.69 | 152 | 3.90 | 0.46 | 8.3 |
| 4/29/2015 | 6:27:19 | 55.12 | 52.02 | 174 | 4.01 | 0.46 | 9.5 |
| 4/29/2015 | 6:27:21 | 55.45 | 52.35 | 148 | 3.75 | 0.46 | 8.1 |
| 4/29/2015 | 6:27:23 | 55.77 | 52.67 | 157 | 3.84 | 0.45 | 8.6 |
| 4/29/2015 | 6:27:27 | 56.10 | 53.00 | 105 | 3.39 | 0.47 | 5.7 |
| 4/29/2015 | 6:27:31 | 56.43 | 53.33 | 82 | 4.04 | 0.46 | 4.5 |
| 4/29/2015 | 6:27:35 | 56.76 | 53.66 | 84 | 3.67 | 0.46 | 4.6 |
| 4/29/2015 | 6:27:39 | 57.09 | 53.99 | 100 | 3.83 | 0.46 | 5.5 |
| 4/29/2015 | 6:27:42 | 57.41 | 54.31 | 104 | 4.01 | 0.46 | 5.7 |
| 4/29/2015 | 6:27:44 | 57.69 | 54.59 | 113 | 4.19 | 0.45 | 6.2 |

## J32 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 6:24:36

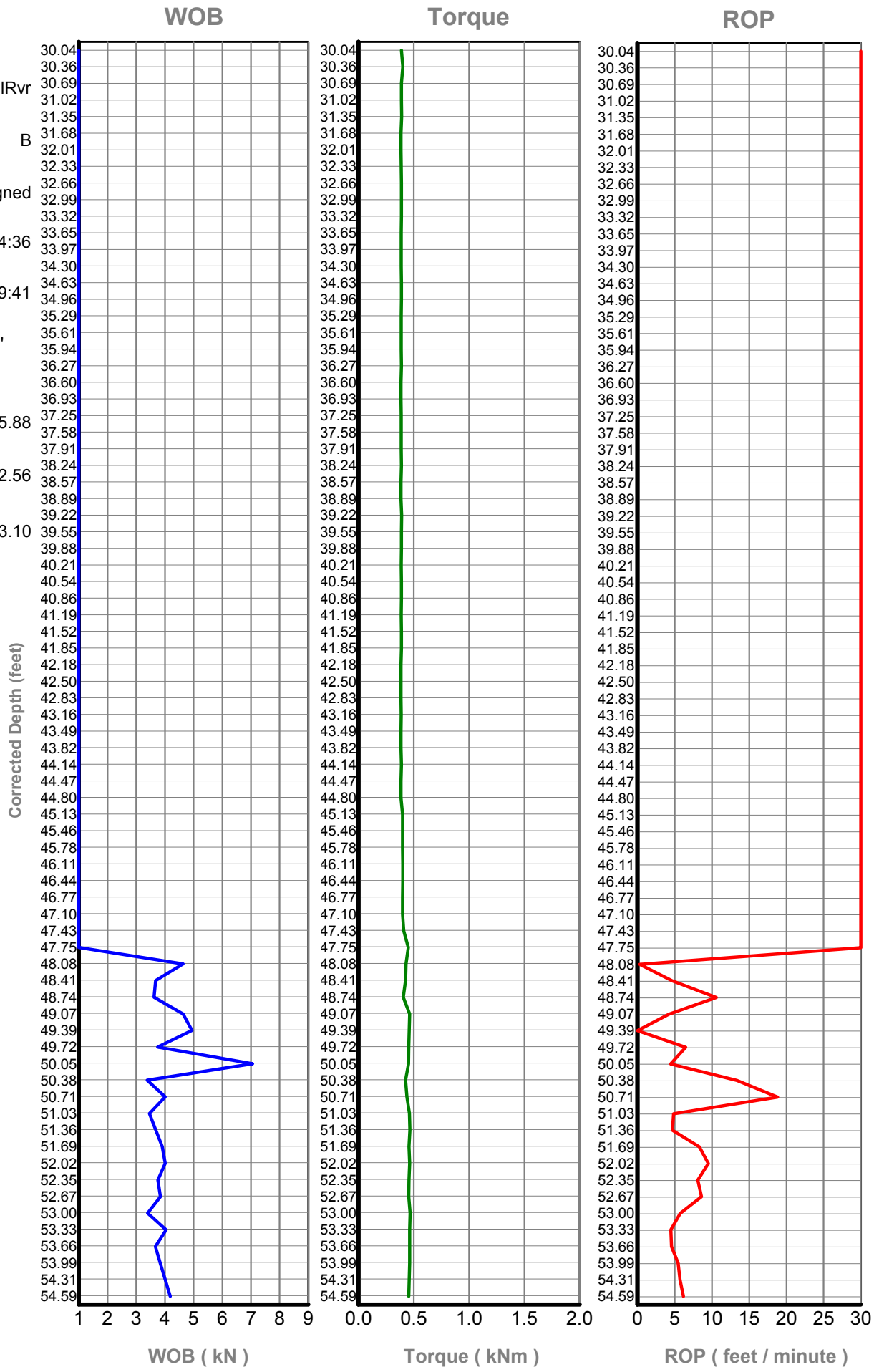
**End Date:**
4/29/2015 6:29:41

**Operator Note:**
'3.1 2.6b Auto Complete'

**Northing:**
362,485.88

**Easting:**
246,522.56

**Tide (feet):**
3.10



## Hole: J33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 6:25:44 | 33.14 | 30.04 | 1,020 | 1.59 | 0.15 | 55.8 |
| 4/29/2015 6:25:44 | 33.46 | 30.36 | 1,020 | 1.59 | 0.15 | 55.8 |
| 4/29/2015 6:25:44 | 33.79 | 30.69 | 1,023 | 1.61 | 0.15 | 56.0 |
| 4/29/2015 6:25:45 | 34.12 | 31.02 | 1,020 | 1.62 | 0.15 | 55.8 |
| 4/29/2015 6:25:45 | 34.45 | 31.35 | 1,020 | 1.62 | 0.15 | 55.8 |
| 4/29/2015 6:25:45 | 34.78 | 31.68 | 1,002 | 1.61 | 0.15 | 54.8 |
| 4/29/2015 6:25:46 | 35.11 | 32.01 | 1,002 | 1.61 | 0.15 | 54.8 |
| 4/29/2015 6:25:46 | 35.43 | 32.33 | 1,002 | 1.61 | 0.15 | 54.8 |
| 4/29/2015 6:25:46 | 35.76 | 32.66 | 1,008 | 1.59 | 0.15 | 55.1 |
| 4/29/2015 6:25:47 | 36.09 | 32.99 | 1,012 | 1.62 | 0.15 | 55.3 |
| 4/29/2015 6:25:48 | 36.42 | 33.32 | 1,012 | 1.62 | 0.15 | 55.3 |
| 4/29/2015 6:25:47 | 36.75 | 33.65 | 989 | 1.57 | 0.15 | 54.1 |
| 4/29/2015 6:25:48 | 37.07 | 33.97 | 989 | 1.61 | 0.23 | 54.1 |
| 4/29/2015 6:25:48 | 37.40 | 34.30 | 989 | 1.61 | 0.23 | 54.1 |
| 4/29/2015 6:25:49 | 37.73 | 34.63 | 1,007 | 1.62 | 0.15 | 55.0 |
| 4/29/2015 6:25:49 | 38.06 | 34.96 | 1,028 | 1.60 | 0.15 | 56.2 |
| 4/29/2015 6:25:50 | 38.39 | 35.29 | 1,028 | 1.60 | 0.15 | 56.2 |
| 4/29/2015 6:25:50 | 38.71 | 35.61 | 1,018 | 1.62 | 0.15 | 55.7 |
| 4/29/2015 6:25:50 | 39.04 | 35.94 | 1,018 | 1.62 | 0.15 | 55.7 |
| 4/29/2015 6:25:51 | 39.37 | 36.27 | 1,008 | 1.62 | 0.15 | 55.1 |
| 4/29/2015 6:25:51 | 39.70 | 36.60 | 1,008 | 1.62 | 0.15 | 55.1 |
| 4/29/2015 6:25:51 | 40.03 | 36.93 | 1,008 | 1.60 | 0.15 | 55.1 |
| 4/29/2015 6:25:52 | 40.35 | 37.25 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:52 | 40.68 | 37.58 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:52 | 41.01 | 37.91 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:53 | 41.34 | 38.24 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:53 | 41.67 | 38.57 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:53 | 41.99 | 38.89 | 1,010 | 1.60 | 0.15 | 55.2 |
| 4/29/2015 6:25:54 | 42.32 | 39.22 | 988 | 1.62 | 0.15 | 54.0 |
| 4/29/2015 6:25:54 | 42.65 | 39.55 | 988 | 1.62 | 0.15 | 54.0 |
| 4/29/2015 6:25:54 | 42.98 | 39.88 | 988 | 1.61 | 0.15 | 54.0 |
| 4/29/2015 6:25:55 | 43.31 | 40.21 | 996 | 1.60 | 0.15 | 54.5 |
| 4/29/2015 6:25:55 | 43.64 | 40.54 | 996 | 1.60 | 0.15 | 54.5 |
| 4/29/2015 6:25:55 | 43.96 | 40.86 | 1,020 | 1.60 | 0.15 | 55.8 |
| 4/29/2015 6:25:56 | 44.29 | 41.19 | 987 | 1.59 | 0.15 | 54.0 |
| 4/29/2015 6:25:56 | 44.62 | 41.52 | 987 | 1.59 | 0.15 | 54.0 |
| 4/29/2015 6:25:56 | 44.95 | 41.85 | 991 | 1.60 | 0.15 | 54.2 |
| 4/29/2015 6:25:57 | 45.28 | 42.18 | 998 | 1.62 | 0.15 | 54.6 |
| 4/29/2015 6:25:57 | 45.60 | 42.50 | 998 | 1.62 | 0.15 | 54.6 |
| 4/29/2015 6:25:57 | 45.93 | 42.83 | 998 | 1.63 | 0.15 | 54.6 |
| 4/29/2015 6:25:58 | 46.26 | 43.16 | 1,000 | 1.61 | 0.15 | 54.7 |
| 4/29/2015 6:25:58 | 46.59 | 43.49 | 1,000 | 1.61 | 0.15 | 54.7 |
| 4/29/2015 6:25:58 | 46.92 | 43.82 | 994 | 1.61 | 0.15 | 54.4 |
| 4/29/2015 6:25:59 | 47.24 | 44.14 | 999 | 1.62 | 0.15 | 54.6 |
| 4/29/2015 6:26:00 | 47.57 | 44.47 | 990 | 1.60 | 0.15 | 54.1 |
| 4/29/2015 6:26:00 | 47.90 | 44.80 | 990 | 1.60 | 0.15 | 54.1 |
| 4/29/2015 6:26:00 | 48.23 | 45.13 | 1,002 | 1.62 | 0.14 | 54.8 |
| 4/29/2015 6:26:01 | 48.56 | 45.46 | 983 | 1.59 | 0.15 | 53.7 |
| 4/29/2015 6:26:01 | 48.88 | 45.78 | 983 | 1.59 | 0.15 | 53.7 |
| 4/29/2015 6:26:01 | 49.21 | 46.11 | 989 | 1.63 | 0.14 | 54.1 |
| 4/29/2015 6:26:02 | 49.54 | 46.44 | 983 | 1.63 | 0.15 | 53.8 |
| 4/29/2015 6:26:02 | 49.87 | 46.77 | 983 | 1.63 | 0.15 | 53.8 |
| 4/29/2015 6:26:02 | 50.20 | 47.10 | 983 | 1.62 | 0.15 | 53.8 |
| 4/29/2015 6:26:03 | 50.53 | 47.43 | 960 | 1.63 | 0.07 | 52.5 |
| 4/29/2015 6:26:03 | 50.85 | 47.75 | 943 | 1.63 | 0.15 | 51.5 |
| 4/29/2015 6:26:04 | 51.18 | 48.08 | 911 | 1.64 | 0.15 | 49.8 |
| 4/29/2015 6:26:04 | 51.51 | 48.41 | 911 | 1.64 | 0.15 | 49.8 |
| 4/29/2015 6:26:04 | 51.84 | 48.74 | 894 | 1.64 | 0.15 | 48.9 |
| 4/29/2015 6:26:05 | 52.17 | 49.07 | 867 | 1.65 | 0.15 | 47.4 |
| 4/29/2015 6:26:05 | 52.49 | 49.39 | 853 | 1.64 | 0.15 | 46.6 |
| 4/29/2015 6:26:06 | 52.82 | 49.72 | 842 | 1.69 | 0.15 | 46.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 6:26:06 | 53.15 | 50.05 | 823 | 1.66 | 0.15 | 45.0 |
| 4/29/2015 | 6:26:07 | 53.48 | 50.38 | 783 | 1.66 | 0.15 | 42.8 |
| 4/29/2015 | 6:26:07 | 53.81 | 50.71 | 745 | 1.68 | 0.15 | 40.7 |
| 4/29/2015 | 6:26:08 | 54.13 | 51.03 | 694 | 1.68 | 0.15 | 37.9 |
| 4/29/2015 | 6:26:08 | 54.46 | 51.36 | 648 | 1.66 | 0.15 | 35.4 |
| 4/29/2015 | 6:26:09 | 54.79 | 51.69 | 619 | 1.68 | 0.15 | 33.8 |
| 4/29/2015 | 6:26:10 | 55.12 | 52.02 | 613 | 1.67 | 0.15 | 33.5 |
| 4/29/2015 | 6:26:10 | 55.45 | 52.35 | 600 | 1.65 | 0.15 | 32.8 |
| 4/29/2015 | 6:26:11 | 55.77 | 52.67 | 619 | 1.68 | 0.15 | 33.8 |
| 4/29/2015 | 6:26:12 | 56.10 | 53.00 | 624 | 1.67 | 0.14 | 34.1 |
| 4/29/2015 | 6:26:12 | 56.43 | 53.33 | 616 | 1.66 | 0.14 | 33.7 |
| 4/29/2015 | 6:26:13 | 56.76 | 53.66 | 613 | 1.68 | 0.15 | 33.5 |
| 4/29/2015 | 6:26:59 | 57.09 | 53.99 | 0 | 1.81 | 1.32 | 0.0 |
| 4/29/2015 | 6:27:02 | 57.41 | 54.31 | 120 | 1.59 | 1.24 | 6.5 |
| 4/29/2015 | 6:27:03 | 57.73 | 54.63 | 165 | 1.65 | 1.30 | 9.0 |

## J33 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 6:24:29

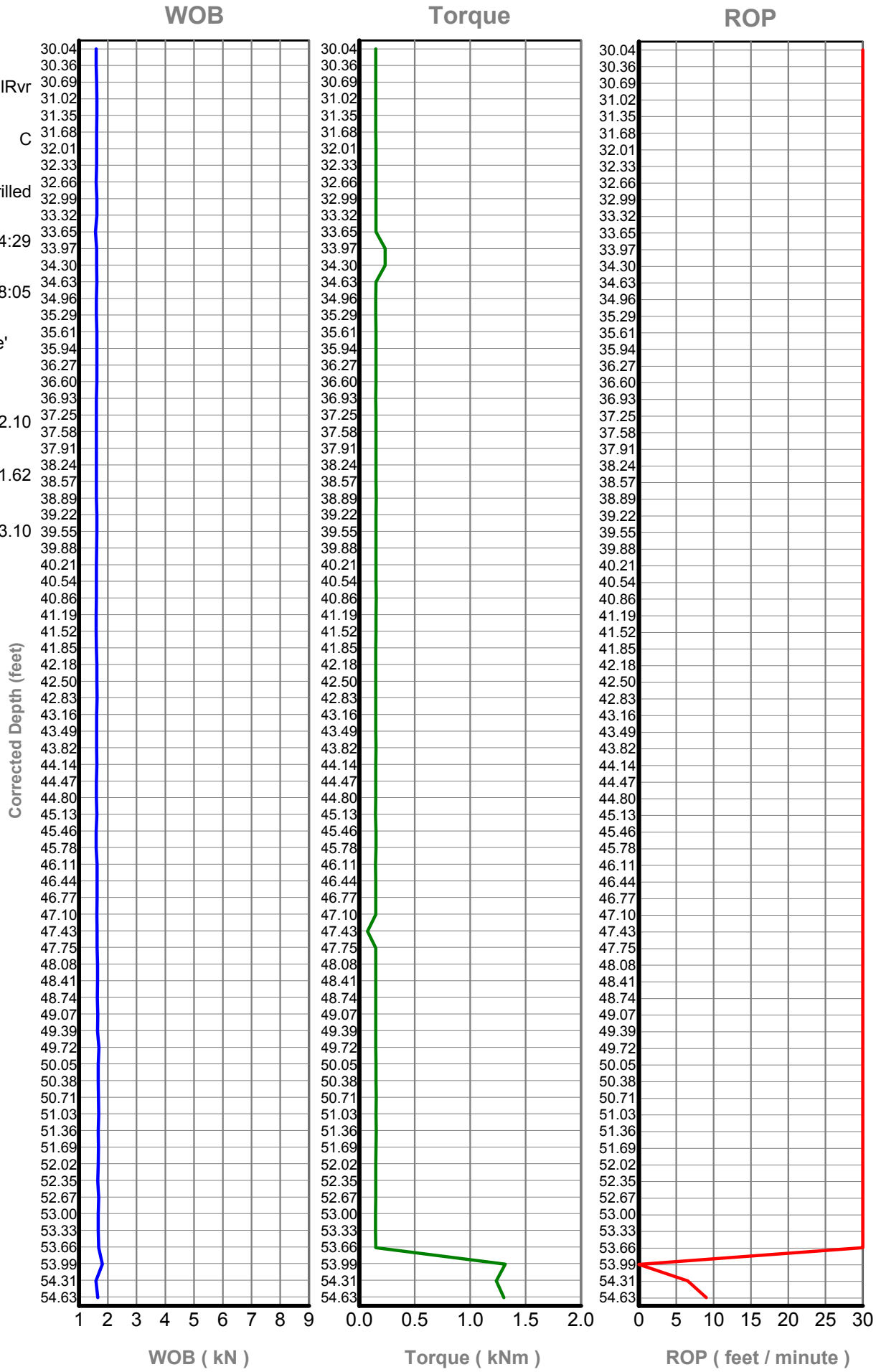
**End Date:**
4/29/2015 6:28:05

**Operator Note:**
'3.1 2.6 c Auto Complete'

**Northing:**
362,532.10

**Easting:**
246,581.62

**Tide (feet):**
3.10



## Hole: J34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:52:08 | 32.48 | 30.28 | 748 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 5:52:08 | 32.81 | 30.61 | 747 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 5:52:09 | 33.14 | 30.94 | 749 | 1.09 | 0.21 | 41.0 |
| 4/29/2015 5:52:09 | 33.46 | 31.26 | 745 | 1.07 | 0.19 | 40.7 |
| 4/29/2015 5:52:10 | 33.79 | 31.59 | 768 | 1.07 | 0.19 | 42.0 |
| 4/29/2015 5:52:10 | 34.12 | 31.92 | 752 | 1.13 | 0.19 | 41.1 |
| 4/29/2015 5:52:11 | 34.45 | 32.25 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 5:52:11 | 34.78 | 32.58 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 5:52:11 | 35.11 | 32.91 | 746 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 5:52:12 | 35.43 | 33.23 | 749 | 1.09 | 0.20 | 40.9 |
| 4/29/2015 5:52:12 | 35.76 | 33.56 | 746 | 1.07 | 0.19 | 40.8 |
| 4/29/2015 5:52:13 | 36.09 | 33.89 | 746 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 5:52:14 | 36.42 | 34.22 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 5:52:14 | 36.75 | 34.55 | 752 | 1.09 | 0.19 | 41.1 |
| 4/29/2015 5:52:15 | 37.07 | 34.87 | 749 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 5:52:15 | 37.40 | 35.20 | 746 | 1.07 | 0.20 | 40.8 |
| 4/29/2015 5:52:16 | 37.73 | 35.53 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 5:52:16 | 38.06 | 35.86 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 5:52:17 | 38.39 | 36.19 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 5:52:17 | 38.71 | 36.51 | 747 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 5:52:17 | 39.04 | 36.84 | 752 | 1.07 | 0.19 | 41.1 |
| 4/29/2015 5:52:18 | 39.37 | 37.17 | 750 | 1.07 | 0.19 | 41.0 |
| 4/29/2015 5:52:18 | 39.70 | 37.50 | 757 | 1.07 | 0.19 | 41.4 |
| 4/29/2015 5:52:19 | 40.03 | 37.83 | 752 | 1.07 | 0.20 | 41.1 |
| 4/29/2015 5:52:19 | 40.35 | 38.15 | 756 | 1.07 | 0.19 | 41.4 |
| 4/29/2015 5:52:20 | 40.68 | 38.48 | 752 | 1.08 | 0.19 | 41.1 |
| 4/29/2015 5:52:20 | 41.01 | 38.81 | 752 | 0.45 | 0.16 | 41.1 |
| 4/29/2015 5:52:43 | 41.34 | 39.14 | 69 | 1.05 | 0.19 | 3.8 |
| 4/29/2015 5:52:43 | 41.67 | 39.47 | 209 | 1.06 | 0.19 | 11.4 |
| 4/29/2015 5:52:44 | 41.99 | 39.79 | 356 | 1.07 | 0.20 | 19.4 |
| 4/29/2015 5:52:45 | 42.32 | 40.12 | 496 | 1.06 | 0.21 | 27.1 |
| 4/29/2015 5:52:45 | 42.65 | 40.45 | 639 | 1.05 | 0.19 | 34.9 |
| 4/29/2015 5:52:46 | 42.98 | 40.78 | 720 | 1.06 | 0.19 | 39.4 |
| 4/29/2015 5:52:46 | 43.31 | 41.11 | 720 | 1.05 | 0.19 | 39.4 |
| 4/29/2015 5:52:47 | 43.64 | 41.44 | 701 | 1.06 | 0.19 | 38.4 |
| 4/29/2015 5:52:47 | 43.96 | 41.76 | 713 | 1.06 | 0.19 | 39.0 |
| 4/29/2015 5:52:48 | 44.29 | 42.09 | 725 | 0.37 | 0.16 | 39.7 |
| 4/29/2015 5:52:49 | 44.62 | 42.42 | 725 | 0.37 | 0.16 | 39.7 |
| 4/29/2015 5:54:02 | 44.95 | 42.75 | 0 | 1.05 | 0.19 | 0.0 |
| 4/29/2015 5:54:03 | 45.28 | 43.08 | 86 | 1.05 | 0.19 | 4.7 |
| 4/29/2015 5:54:03 | 45.60 | 43.40 | 236 | 1.05 | 0.19 | 12.9 |
| 4/29/2015 5:54:04 | 45.93 | 43.73 | 382 | 1.04 | 0.19 | 20.9 |
| 4/29/2015 5:54:04 | 46.26 | 44.06 | 532 | 1.05 | 0.19 | 29.1 |
| 4/29/2015 5:54:05 | 46.59 | 44.39 | 677 | 1.05 | 0.19 | 37.0 |
| 4/29/2015 5:54:05 | 46.92 | 44.72 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 5:54:06 | 47.24 | 45.04 | 719 | 1.07 | 0.19 | 39.3 |
| 4/29/2015 5:54:06 | 47.57 | 45.37 | 700 | 1.06 | 0.19 | 38.3 |
| 4/29/2015 5:54:07 | 47.90 | 45.70 | 664 | 1.06 | 0.20 | 36.3 |
| 4/29/2015 5:54:08 | 48.23 | 46.03 | 626 | 1.07 | 0.19 | 34.2 |
| 4/29/2015 5:54:09 | 48.56 | 46.36 | 601 | 1.13 | 0.19 | 32.8 |
| 4/29/2015 5:54:09 | 48.88 | 46.68 | 580 | 1.07 | 0.19 | 31.7 |
| 4/29/2015 5:54:10 | 49.21 | 47.01 | 564 | 1.08 | 0.18 | 30.8 |
| 4/29/2015 5:54:11 | 49.54 | 47.34 | 566 | 1.08 | 0.19 | 31.0 |
| 4/29/2015 5:54:11 | 49.87 | 47.67 | 549 | 1.08 | 0.19 | 30.0 |
| 4/29/2015 5:54:12 | 50.20 | 48.00 | 541 | 1.08 | 0.19 | 29.6 |
| 4/29/2015 5:54:13 | 50.53 | 48.33 | 528 | 1.08 | 0.17 | 28.9 |
| 4/29/2015 5:54:33 | 50.85 | 48.65 | 60 | 1.09 | 0.19 | 3.3 |
| 4/29/2015 5:54:33 | 51.18 | 48.98 | 142 | 1.10 | 0.19 | 7.8 |
| 4/29/2015 5:54:34 | 51.51 | 49.31 | 233 | 1.09 | 0.19 | 12.7 |
| 4/29/2015 5:54:35 | 51.84 | 49.64 | 321 | 1.09 | 0.19 | 17.6 |
| 4/29/2015 5:54:36 | 52.17 | 49.97 | 413 | 1.09 | 0.19 | 22.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:54:36 | 52.49 | 50.29 | 438 | 1.09 | 0.19 | 24.0 |
| 4/29/2015 | 5:54:38 | 52.82 | 50.62 | 447 | 1.09 | 0.19 | 24.5 |
| 4/29/2015 | 5:54:39 | 53.15 | 50.95 | 433 | 1.09 | 0.19 | 23.7 |
| 4/29/2015 | 5:54:39 | 53.48 | 51.28 | 432 | 1.09 | 0.19 | 23.6 |
| 4/29/2015 | 5:54:40 | 53.81 | 51.61 | 426 | 1.09 | 0.19 | 23.3 |
| 4/29/2015 | 5:54:41 | 54.13 | 51.93 | 411 | 1.09 | 0.19 | 22.5 |
| 4/29/2015 | 5:54:42 | 54.46 | 52.26 | 419 | 1.10 | 0.19 | 22.9 |
| 4/29/2015 | 5:54:43 | 54.79 | 52.59 | 401 | 1.11 | 0.19 | 22.0 |
| 4/29/2015 | 5:54:44 | 55.12 | 52.92 | 387 | 1.09 | 0.18 | 21.2 |
| 4/29/2015 | 5:54:45 | 55.45 | 53.25 | 390 | 1.09 | 0.19 | 21.3 |
| 4/29/2015 | 5:54:45 | 55.77 | 53.57 | 389 | 1.10 | 0.18 | 21.2 |
| 4/29/2015 | 5:54:46 | 56.10 | 53.90 | 382 | 1.11 | 0.18 | 20.9 |
| 4/29/2015 | 5:54:47 | 56.43 | 54.23 | 369 | 1.11 | 0.19 | 20.2 |
| 4/29/2015 | 5:54:49 | 56.76 | 54.56 | 334 | 1.10 | 0.19 | 18.3 |
| 4/29/2015 | 5:54:50 | 57.09 | 54.89 | 338 | 1.11 | 0.19 | 18.5 |
| 4/29/2015 | 5:54:50 | 57.27 | 55.07 | 331 | 1.09 | 0.19 | 18.1 |

## J34 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:49:21

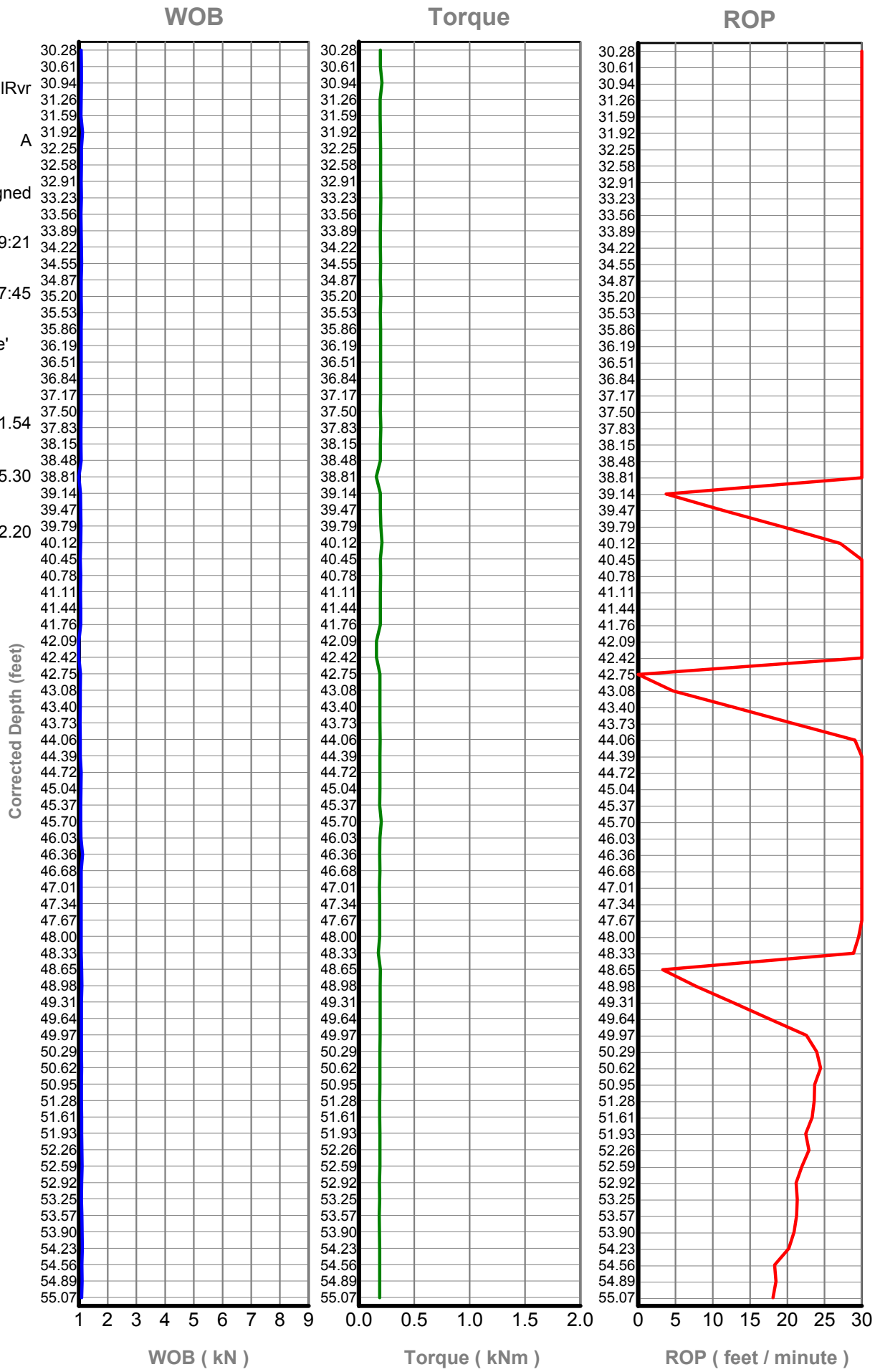
**End Date:**
4/29/2015 5:57:45

**Operator Note:**
'2.2 1.8 b Auto Complete'

**Northing:**
362,571.54

**Easting:**
246,635.30

**Tide (feet):**
2.20



## Hole: J35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:52:30 | 32.48 | 30.28 | 1,102 | 0.39 | 0.39 | 60.3 |
| 4/29/2015 5:52:31 | 32.81 | 30.61 | 1,102 | 0.39 | 0.39 | 60.3 |
| 4/29/2015 5:52:31 | 33.14 | 30.94 | 1,097 | 0.39 | 0.38 | 60.0 |
| 4/29/2015 5:52:31 | 33.46 | 31.26 | 1,102 | 0.24 | 0.36 | 60.3 |
| 4/29/2015 5:52:32 | 33.79 | 31.59 | 1,102 | 0.24 | 0.36 | 60.3 |
| 4/29/2015 5:52:32 | 34.12 | 31.92 | 1,097 | 0.31 | 0.38 | 60.0 |
| 4/29/2015 5:52:33 | 34.45 | 32.25 | 1,097 | 0.31 | 0.38 | 60.0 |
| 4/29/2015 5:52:32 | 34.78 | 32.58 | 1,096 | 0.30 | 0.38 | 59.9 |
| 4/29/2015 5:52:33 | 35.11 | 32.91 | 1,096 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 5:52:34 | 35.43 | 33.23 | 1,096 | 0.29 | 0.38 | 59.9 |
| 4/29/2015 5:52:34 | 35.76 | 33.56 | 1,122 | 0.29 | 0.37 | 61.4 |
| 4/29/2015 5:52:34 | 36.09 | 33.89 | 1,122 | 0.29 | 0.37 | 61.4 |
| 4/29/2015 5:52:34 | 36.42 | 34.22 | 1,123 | 0.30 | 0.38 | 61.4 |
| 4/29/2015 5:52:35 | 36.75 | 34.55 | 1,109 | 0.29 | 0.38 | 60.6 |
| 4/29/2015 5:52:35 | 37.07 | 34.87 | 1,109 | 0.29 | 0.38 | 60.6 |
| 4/29/2015 5:52:35 | 37.40 | 35.20 | 1,109 | 0.29 | 0.38 | 60.6 |
| 4/29/2015 5:52:36 | 37.73 | 35.53 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/29/2015 5:52:36 | 38.06 | 35.86 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/29/2015 5:52:36 | 38.39 | 36.19 | 1,131 | 0.29 | 0.37 | 61.9 |
| 4/29/2015 5:52:37 | 38.71 | 36.51 | 1,131 | 0.29 | 0.37 | 61.9 |
| 4/29/2015 5:52:37 | 39.04 | 36.84 | 1,132 | 0.29 | 0.38 | 61.9 |
| 4/29/2015 5:52:37 | 39.37 | 37.17 | 1,132 | 0.29 | 0.38 | 61.9 |
| 4/29/2015 5:53:01 | 39.70 | 37.50 | 0 | 0.33 | 0.38 | 0.0 |
| 4/29/2015 5:53:01 | 40.03 | 37.83 | 134 | 0.31 | 0.37 | 7.3 |
| 4/29/2015 5:53:02 | 40.35 | 38.15 | 134 | 0.31 | 0.37 | 7.3 |
| 4/29/2015 5:53:02 | 40.68 | 38.48 | 364 | 0.30 | 0.38 | 19.9 |
| 4/29/2015 5:53:02 | 41.01 | 38.81 | 580 | 0.30 | 0.38 | 31.7 |
| 4/29/2015 5:53:03 | 41.34 | 39.14 | 580 | 0.30 | 0.38 | 31.7 |
| 4/29/2015 5:53:03 | 41.67 | 39.47 | 804 | 0.32 | 0.38 | 44.0 |
| 4/29/2015 5:53:03 | 41.99 | 39.79 | 804 | 0.32 | 0.38 | 44.0 |
| 4/29/2015 5:53:03 | 42.32 | 40.12 | 1,030 | 0.32 | 0.37 | 56.3 |
| 4/29/2015 5:53:04 | 42.65 | 40.45 | 1,122 | 0.31 | 0.37 | 61.3 |
| 4/29/2015 5:53:05 | 42.98 | 40.78 | 1,122 | 0.31 | 0.37 | 61.3 |
| 4/29/2015 5:53:05 | 43.31 | 41.11 | 1,112 | 0.31 | 0.38 | 60.8 |
| 4/29/2015 5:53:05 | 43.64 | 41.44 | 1,112 | 0.31 | 0.38 | 60.8 |
| 4/29/2015 5:53:05 | 43.96 | 41.76 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/29/2015 5:53:06 | 44.29 | 42.09 | 1,119 | 0.32 | 0.37 | 61.2 |
| 4/29/2015 5:53:06 | 44.62 | 42.42 | 1,119 | 0.32 | 0.37 | 61.2 |
| 4/29/2015 5:53:06 | 44.95 | 42.75 | 1,125 | 0.31 | 0.37 | 61.5 |
| 4/29/2015 5:53:07 | 45.28 | 43.08 | 1,122 | 0.31 | 0.37 | 61.3 |
| 4/29/2015 5:53:07 | 45.60 | 43.40 | 1,122 | 0.31 | 0.37 | 61.3 |
| 4/29/2015 5:53:07 | 45.93 | 43.73 | 1,125 | 0.23 | 0.37 | 61.5 |
| 4/29/2015 5:53:08 | 46.26 | 44.06 | 1,125 | 0.23 | 0.37 | 61.5 |
| 4/29/2015 5:53:08 | 46.59 | 44.39 | 1,130 | 0.31 | 0.37 | 61.8 |
| 4/29/2015 5:53:08 | 46.92 | 44.72 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/29/2015 5:53:09 | 47.24 | 45.04 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/29/2015 5:53:09 | 47.57 | 45.37 | 1,126 | 0.31 | 0.38 | 61.6 |
| 4/29/2015 5:53:09 | 47.90 | 45.70 | 1,126 | 0.31 | 0.38 | 61.6 |
| 4/29/2015 5:53:09 | 48.23 | 46.03 | 1,125 | 0.30 | 0.38 | 61.5 |
| 4/29/2015 5:53:10 | 48.56 | 46.36 | 1,097 | 0.30 | 0.39 | 60.0 |
| 4/29/2015 5:53:10 | 48.88 | 46.68 | 1,097 | 0.30 | 0.39 | 60.0 |
| 4/29/2015 5:53:10 | 49.21 | 47.01 | 1,097 | 0.30 | 0.39 | 60.0 |
| 4/29/2015 5:53:11 | 49.54 | 47.34 | 1,073 | 0.30 | 0.39 | 58.7 |
| 4/29/2015 5:53:11 | 49.87 | 47.67 | 1,073 | 0.30 | 0.39 | 58.7 |
| 4/29/2015 5:53:11 | 50.20 | 48.00 | 1,029 | 0.30 | 0.39 | 56.3 |
| 4/29/2015 5:53:12 | 50.53 | 48.33 | 996 | 0.30 | 0.39 | 54.4 |
| 4/29/2015 5:53:12 | 50.85 | 48.65 | 956 | 0.29 | 0.40 | 52.3 |
| 4/29/2015 5:53:13 | 51.18 | 48.98 | 956 | 0.29 | 0.40 | 52.3 |
| 4/29/2015 5:53:13 | 51.51 | 49.31 | 929 | 0.30 | 0.40 | 50.8 |
| 4/29/2015 5:53:13 | 51.84 | 49.64 | 929 | 0.29 | 0.40 | 50.8 |
| 4/29/2015 5:53:14 | 52.17 | 49.97 | 896 | 0.30 | 0.40 | 49.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:53:14 | 52.49 | 50.29 | 881 | 0.29 | 0.40 | 48.2 |
| 4/29/2015 | 5:53:15 | 52.82 | 50.62 | 855 | 0.30 | 0.40 | 46.8 |
| 4/29/2015 | 5:53:16 | 53.15 | 50.95 | 855 | 0.30 | 0.40 | 46.8 |
| 4/29/2015 | 5:53:16 | 53.48 | 51.28 | 835 | 0.29 | 0.41 | 45.7 |
| 4/29/2015 | 5:53:16 | 53.81 | 51.61 | 824 | 0.30 | 0.40 | 45.1 |
| 4/29/2015 | 5:53:17 | 54.13 | 51.93 | 806 | 0.30 | 0.40 | 44.1 |
| 4/29/2015 | 5:53:17 | 54.46 | 52.26 | 793 | 0.30 | 0.41 | 43.4 |
| 4/29/2015 | 5:53:18 | 54.79 | 52.59 | 795 | 0.30 | 0.41 | 43.5 |
| 4/29/2015 | 5:53:18 | 55.12 | 52.92 | 786 | 0.30 | 0.41 | 43.0 |
| 4/29/2015 | 5:53:19 | 55.45 | 53.25 | 786 | 0.30 | 0.40 | 43.0 |
| 4/29/2015 | 5:53:19 | 55.77 | 53.57 | 786 | 0.30 | 0.40 | 43.0 |
| 4/29/2015 | 5:53:19 | 56.10 | 53.90 | 778 | 0.30 | 0.40 | 42.5 |
| 4/29/2015 | 5:53:20 | 56.43 | 54.23 | 785 | 0.30 | 0.40 | 43.0 |
| 4/29/2015 | 5:53:20 | 56.76 | 54.56 | 769 | 0.30 | 0.41 | 42.1 |
| 4/29/2015 | 5:53:21 | 57.09 | 54.89 | 761 | 0.29 | 0.41 | 41.6 |
| 4/29/2015 | 5:53:21 | 57.34 | 55.14 | 755 | 0.27 | 0.38 | 41.3 |

## J35 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:50:48

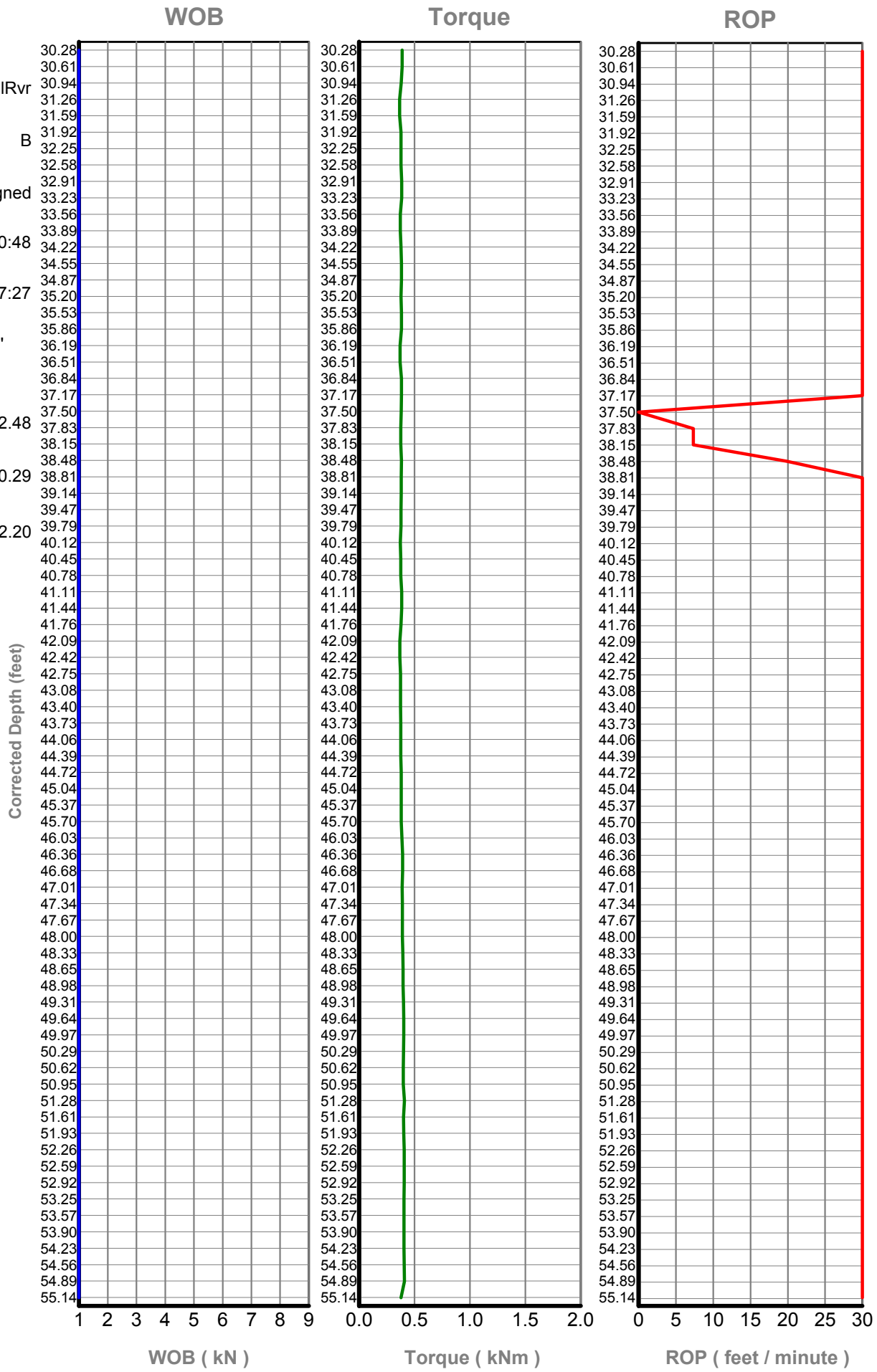
**End Date:**
4/29/2015 5:57:27

**Operator Note:**
'2.2 1.8b Auto Complete'

**Northing:**
362,622.48

**Easting:**
246,690.29

**Tide (feet):**
2.20



## Hole: J36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:52:52 | 32.48 | 30.28 | 1,078 | 1.60 | 0.14 | 59.0 |
| 4/29/2015 5:52:52 | 32.81 | 30.61 | 1,043 | 1.60 | 0.15 | 57.0 |
| 4/29/2015 5:52:52 | 33.14 | 30.94 | 1,039 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:52:53 | 33.46 | 31.26 | 1,039 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:52:53 | 33.79 | 31.59 | 1,039 | 1.58 | 0.14 | 56.8 |
| 4/29/2015 5:52:53 | 34.12 | 31.92 | 1,077 | 1.59 | 0.14 | 58.9 |
| 4/29/2015 5:52:54 | 34.45 | 32.25 | 1,077 | 1.59 | 0.14 | 58.9 |
| 4/29/2015 5:52:54 | 34.78 | 32.58 | 1,074 | 1.59 | 0.14 | 58.7 |
| 4/29/2015 5:52:54 | 35.11 | 32.91 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 5:52:55 | 35.43 | 33.23 | 1,058 | 1.60 | 0.14 | 57.9 |
| 4/29/2015 5:52:55 | 35.76 | 33.56 | 1,053 | 1.59 | 0.14 | 57.6 |
| 4/29/2015 5:52:55 | 36.09 | 33.89 | 1,053 | 1.60 | 0.14 | 57.6 |
| 4/29/2015 5:52:56 | 36.42 | 34.22 | 1,053 | 1.60 | 0.14 | 57.6 |
| 4/29/2015 5:52:56 | 36.75 | 34.55 | 1,054 | 1.58 | 0.14 | 57.6 |
| 4/29/2015 5:52:56 | 37.07 | 34.87 | 1,054 | 1.57 | 0.14 | 57.6 |
| 4/29/2015 5:52:57 | 37.40 | 35.20 | 1,054 | 1.57 | 0.14 | 57.6 |
| 4/29/2015 5:52:57 | 37.73 | 35.53 | 1,039 | 1.58 | 0.14 | 56.8 |
| 4/29/2015 5:52:57 | 38.06 | 35.86 | 1,039 | 1.58 | 0.14 | 56.8 |
| 4/29/2015 5:52:57 | 38.39 | 36.19 | 1,039 | 1.58 | 0.14 | 56.8 |
| 4/29/2015 5:52:58 | 38.71 | 36.51 | 1,046 | 1.62 | 0.14 | 57.2 |
| 4/29/2015 5:52:58 | 39.04 | 36.84 | 1,046 | 1.62 | 0.14 | 57.2 |
| 4/29/2015 5:52:58 | 39.37 | 37.17 | 1,048 | 1.60 | 0.14 | 57.3 |
| 4/29/2015 5:52:59 | 39.70 | 37.50 | 1,079 | 1.59 | 0.14 | 59.0 |
| 4/29/2015 5:53:00 | 40.03 | 37.83 | 1,079 | 1.59 | 0.14 | 59.0 |
| 4/29/2015 5:52:59 | 40.35 | 38.15 | 1,045 | 1.59 | 0.14 | 57.2 |
| 4/29/2015 5:53:00 | 40.68 | 38.48 | 1,045 | 1.60 | 0.14 | 57.2 |
| 4/29/2015 5:53:00 | 41.01 | 38.81 | 1,045 | 1.60 | 0.14 | 57.2 |
| 4/29/2015 5:53:01 | 41.34 | 39.14 | 1,064 | 1.60 | 0.14 | 58.2 |
| 4/29/2015 5:53:01 | 41.67 | 39.47 | 1,031 | 1.59 | 0.14 | 56.4 |
| 4/29/2015 5:53:02 | 41.99 | 39.79 | 1,031 | 1.59 | 0.14 | 56.4 |
| 4/29/2015 5:53:02 | 42.32 | 40.12 | 1,031 | 1.59 | 0.14 | 56.4 |
| 4/29/2015 5:53:02 | 42.65 | 40.45 | 1,041 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 5:53:03 | 42.98 | 40.78 | 1,041 | 1.59 | 0.14 | 56.9 |
| 4/29/2015 5:53:03 | 43.31 | 41.11 | 1,018 | 1.61 | 0.14 | 55.6 |
| 4/29/2015 5:53:03 | 43.64 | 41.44 | 1,018 | 1.61 | 0.14 | 55.6 |
| 4/29/2015 5:53:03 | 43.96 | 41.76 | 1,057 | 1.59 | 0.14 | 57.8 |
| 4/29/2015 5:53:04 | 44.29 | 42.09 | 1,020 | 1.61 | 0.14 | 55.8 |
| 4/29/2015 5:53:04 | 44.62 | 42.42 | 1,020 | 1.61 | 0.14 | 55.8 |
| 4/29/2015 5:53:04 | 44.95 | 42.75 | 1,038 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:53:05 | 45.28 | 43.08 | 1,038 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:53:05 | 45.60 | 43.40 | 1,038 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:53:05 | 45.93 | 43.73 | 1,041 | 1.60 | 0.14 | 57.0 |
| 4/29/2015 5:53:06 | 46.26 | 44.06 | 1,062 | 1.56 | 0.14 | 58.1 |
| 4/29/2015 5:53:06 | 46.59 | 44.39 | 1,062 | 1.56 | 0.14 | 58.1 |
| 4/29/2015 5:53:06 | 46.92 | 44.72 | 1,043 | 1.58 | 0.14 | 57.1 |
| 4/29/2015 5:53:07 | 47.24 | 45.04 | 1,052 | 1.61 | 0.14 | 57.5 |
| 4/29/2015 5:53:07 | 47.57 | 45.37 | 1,052 | 1.61 | 0.14 | 57.5 |
| 4/29/2015 5:53:07 | 47.90 | 45.70 | 1,051 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:53:08 | 48.23 | 46.03 | 1,047 | 1.59 | 0.14 | 57.3 |
| 4/29/2015 5:53:08 | 48.56 | 46.36 | 1,047 | 1.59 | 0.14 | 57.3 |
| 4/29/2015 5:53:08 | 48.88 | 46.68 | 1,047 | 1.62 | 0.14 | 57.3 |
| 4/29/2015 5:53:09 | 49.21 | 47.01 | 1,034 | 1.62 | 0.14 | 56.5 |
| 4/29/2015 5:53:10 | 49.54 | 47.34 | 1,034 | 1.62 | 0.14 | 56.5 |
| 4/29/2015 5:53:09 | 49.87 | 47.67 | 1,030 | 1.63 | 0.14 | 56.3 |
| 4/29/2015 5:53:10 | 50.20 | 48.00 | 1,030 | 1.63 | 0.14 | 56.3 |
| 4/29/2015 5:53:11 | 50.53 | 48.33 | 1,030 | 1.63 | 0.14 | 56.3 |
| 4/29/2015 5:53:10 | 50.85 | 48.65 | 1,011 | 1.64 | 0.14 | 55.3 |
| 4/29/2015 5:53:11 | 51.18 | 48.98 | 1,011 | 1.66 | 0.14 | 55.3 |
| 4/29/2015 5:53:12 | 51.51 | 49.31 | 957 | 1.65 | 0.14 | 52.3 |
| 4/29/2015 5:53:12 | 51.84 | 49.64 | 957 | 1.66 | 0.14 | 52.3 |
| 4/29/2015 5:53:13 | 52.17 | 49.97 | 914 | 1.63 | 0.14 | 50.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:53:13 | 52.49 | 50.29 | 914 | 1.63 | 0.14 | 50.0 |
| 4/29/2015 | 5:53:13 | 52.82 | 50.62 | 866 | 1.66 | 0.14 | 47.4 |
| 4/29/2015 | 5:53:14 | 53.15 | 50.95 | 866 | 1.68 | 0.14 | 47.4 |
| 4/29/2015 | 5:53:14 | 53.48 | 51.28 | 830 | 1.65 | 0.14 | 45.4 |
| 4/29/2015 | 5:53:15 | 53.81 | 51.61 | 772 | 1.66 | 0.15 | 42.2 |
| 4/29/2015 | 5:53:15 | 54.13 | 51.93 | 750 | 1.68 | 0.15 | 41.0 |
| 4/29/2015 | 5:53:16 | 54.46 | 52.26 | 718 | 1.66 | 0.15 | 39.2 |
| 4/29/2015 | 5:53:16 | 54.79 | 52.59 | 689 | 1.67 | 0.14 | 37.7 |
| 4/29/2015 | 5:53:17 | 55.12 | 52.92 | 643 | 1.68 | 0.14 | 35.2 |
| 4/29/2015 | 5:53:18 | 55.45 | 53.25 | 631 | 1.67 | 0.14 | 34.5 |
| 4/29/2015 | 5:53:18 | 55.77 | 53.57 | 598 | 1.66 | 0.14 | 32.7 |
| 4/29/2015 | 5:53:19 | 56.10 | 53.90 | 554 | 1.68 | 0.14 | 30.3 |
| 4/29/2015 | 5:53:20 | 56.43 | 54.23 | 542 | 1.63 | 0.14 | 29.7 |
| 4/29/2015 | 5:53:20 | 56.76 | 54.56 | 521 | 1.66 | 0.14 | 28.5 |
| 4/29/2015 | 5:53:21 | 57.05 | 54.85 | 509 | 1.68 | 0.14 | 27.8 |

## J36 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:50:31

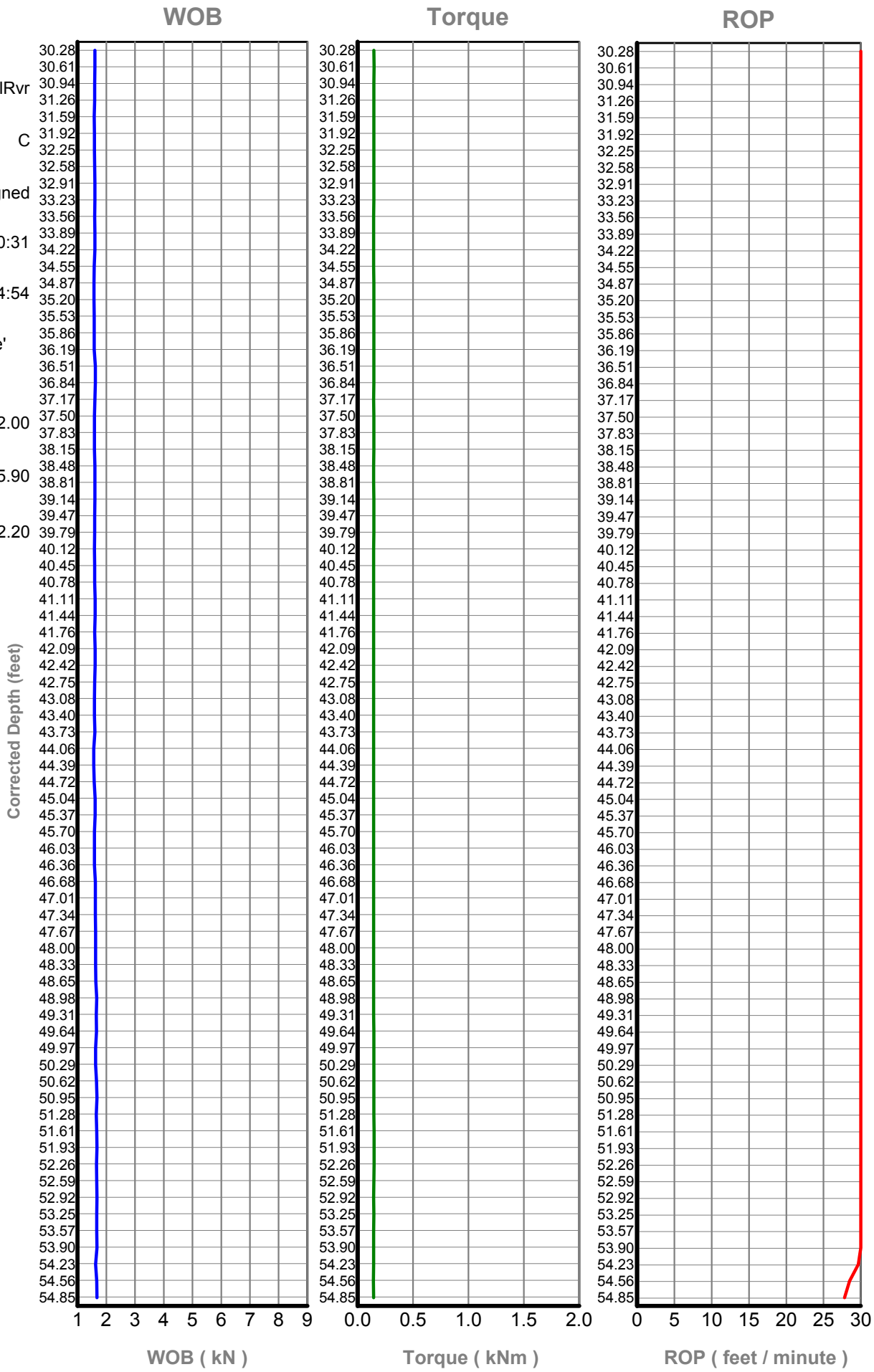
**End Date:**
4/29/2015 5:54:54

**Operator Note:**
'2.2 1.8 c Auto Complete'

**Northing:**
362,672.00

**Easting:**
246,745.90

**Tide (feet):**
2.20



## Hole: J4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:26:47 | 35.76 | 30.16 | 877 | 1.17 | 0.16 | 48.0 |
| 4/29/2015 8:26:47 | 36.09 | 30.49 | 872 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:47 | 36.42 | 30.82 | 882 | 1.18 | 0.16 | 48.2 |
| 4/29/2015 8:26:48 | 36.75 | 31.15 | 873 | 1.18 | 0.16 | 47.7 |
| 4/29/2015 8:26:48 | 37.07 | 31.47 | 873 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:49 | 37.40 | 31.80 | 873 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:49 | 37.73 | 32.13 | 870 | 1.16 | 0.16 | 47.6 |
| 4/29/2015 8:26:50 | 38.06 | 32.46 | 873 | 1.17 | 0.15 | 47.7 |
| 4/29/2015 8:26:50 | 38.39 | 32.79 | 878 | 1.16 | 0.16 | 48.0 |
| 4/29/2015 8:26:51 | 38.71 | 33.11 | 878 | 1.16 | 0.16 | 48.0 |
| 4/29/2015 8:26:51 | 39.04 | 33.44 | 873 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:51 | 39.37 | 33.77 | 868 | 1.17 | 0.16 | 47.5 |
| 4/29/2015 8:26:52 | 39.70 | 34.10 | 879 | 1.16 | 0.16 | 48.1 |
| 4/29/2015 8:26:52 | 40.03 | 34.43 | 867 | 1.19 | 0.16 | 47.4 |
| 4/29/2015 8:26:53 | 40.35 | 34.75 | 867 | 1.19 | 0.16 | 47.4 |
| 4/29/2015 8:26:53 | 40.68 | 35.08 | 867 | 1.21 | 0.16 | 47.4 |
| 4/29/2015 8:26:53 | 41.01 | 35.41 | 866 | 1.18 | 0.16 | 47.4 |
| 4/29/2015 8:26:54 | 41.34 | 35.74 | 869 | 1.17 | 0.16 | 47.5 |
| 4/29/2015 8:26:54 | 41.67 | 36.07 | 871 | 1.17 | 0.16 | 47.6 |
| 4/29/2015 8:26:55 | 41.99 | 36.39 | 871 | 1.17 | 0.16 | 47.6 |
| 4/29/2015 8:26:55 | 42.32 | 36.72 | 860 | 1.17 | 0.16 | 47.1 |
| 4/29/2015 8:26:55 | 42.65 | 37.05 | 865 | 1.19 | 0.16 | 47.3 |
| 4/29/2015 8:26:56 | 42.98 | 37.38 | 871 | 1.17 | 0.16 | 47.6 |
| 4/29/2015 8:26:56 | 43.31 | 37.71 | 871 | 1.17 | 0.16 | 47.6 |
| 4/29/2015 8:26:56 | 43.64 | 38.04 | 868 | 1.19 | 0.16 | 47.5 |
| 4/29/2015 8:26:57 | 43.96 | 38.36 | 868 | 1.19 | 0.16 | 47.5 |
| 4/29/2015 8:26:57 | 44.29 | 38.69 | 868 | 1.16 | 0.15 | 47.5 |
| 4/29/2015 8:26:58 | 44.62 | 39.02 | 873 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:58 | 44.95 | 39.35 | 873 | 1.17 | 0.16 | 47.7 |
| 4/29/2015 8:26:58 | 45.28 | 39.68 | 864 | 1.16 | 0.16 | 47.3 |
| 4/29/2015 8:26:59 | 45.60 | 40.00 | 864 | 1.18 | 0.16 | 47.3 |
| 4/29/2015 8:27:00 | 45.93 | 40.33 | 859 | 1.17 | 0.16 | 47.0 |
| 4/29/2015 8:27:00 | 46.26 | 40.66 | 867 | 1.17 | 0.16 | 47.4 |
| 4/29/2015 8:27:01 | 46.59 | 40.99 | 867 | 1.17 | 0.16 | 47.4 |
| 4/29/2015 8:27:01 | 46.92 | 41.32 | 864 | 1.18 | 0.16 | 47.3 |
| 4/29/2015 8:27:01 | 47.24 | 41.64 | 862 | 1.17 | 0.16 | 47.1 |
| 4/29/2015 8:27:02 | 47.57 | 41.97 | 859 | 1.17 | 0.16 | 47.0 |
| 4/29/2015 8:27:02 | 47.90 | 42.30 | 862 | 1.16 | 0.16 | 47.1 |
| 4/29/2015 8:27:03 | 48.23 | 42.63 | 862 | 1.16 | 0.16 | 47.1 |
| 4/29/2015 8:27:03 | 48.56 | 42.96 | 856 | 1.17 | 0.16 | 46.8 |
| 4/29/2015 8:27:03 | 48.88 | 43.28 | 856 | 1.25 | 0.14 | 46.8 |
| 4/29/2015 8:27:19 | 49.21 | 43.61 | 17 | 1.18 | 0.78 | 0.9 |
| 4/29/2015 8:27:22 | 49.54 | 43.94 | 155 | 1.14 | 1.57 | 8.5 |
| 4/29/2015 8:27:26 | 49.87 | 44.27 | 113 | 1.17 | 0.89 | 6.2 |
| 4/29/2015 8:27:27 | 50.20 | 44.60 | 227 | 1.18 | 1.09 | 12.4 |
| 4/29/2015 8:27:28 | 50.53 | 44.93 | 306 | 1.14 | 1.13 | 16.7 |
| 4/29/2015 8:27:30 | 50.85 | 45.25 | 249 | 1.15 | 1.34 | 13.6 |
| 4/29/2015 8:27:33 | 51.18 | 45.58 | 100 | 1.21 | 1.41 | 5.5 |
| 4/29/2015 8:27:41 | 51.51 | 45.91 | 58 | 1.07 | 1.53 | 3.2 |
| 4/29/2015 8:27:43 | 51.84 | 46.24 | 179 | 1.13 | 1.10 | 9.8 |
| 4/29/2015 8:27:44 | 52.17 | 46.57 | 223 | 1.09 | 1.15 | 12.2 |
| 4/29/2015 8:27:46 | 52.49 | 46.89 | 227 | 1.09 | 1.16 | 12.4 |
| 4/29/2015 8:27:48 | 52.82 | 47.22 | 205 | 1.13 | 1.64 | 11.2 |
| 4/29/2015 8:27:50 | 53.15 | 47.55 | 144 | 1.98 | 1.30 | 7.9 |
| 4/29/2015 8:27:52 | 53.48 | 47.88 | 150 | 1.10 | 1.22 | 8.2 |
| 4/29/2015 8:27:55 | 53.81 | 48.21 | 115 | 1.05 | 1.23 | 6.3 |
| 4/29/2015 8:27:58 | 54.13 | 48.53 | 142 | 0.98 | 0.96 | 7.8 |
| 4/29/2015 8:28:00 | 54.46 | 48.86 | 134 | 1.86 | 1.20 | 7.3 |
| 4/29/2015 8:28:01 | 54.79 | 49.19 | 151 | 1.96 | 1.40 | 8.3 |
| 4/29/2015 8:28:04 | 55.12 | 49.52 | 166 | 1.14 | 1.21 | 9.1 |
| 4/29/2015 8:28:06 | 55.45 | 49.85 | 160 | 1.07 | 1.13 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:28:09 | 55.77 | 50.17 | 117 | 1.15 | 1.23 | 6.4 |
| 4/29/2015 | 8:28:13 | 56.10 | 50.50 | 119 | 1.09 | 1.18 | 6.5 |
| 4/29/2015 | 8:28:16 | 56.43 | 50.83 | 107 | 1.07 | 1.20 | 5.8 |
| 4/29/2015 | 8:28:19 | 56.76 | 51.16 | 99 | 1.15 | 1.25 | 5.4 |
| 4/29/2015 | 8:28:24 | 57.09 | 51.49 | 84 | 1.12 | 1.11 | 4.6 |
| 4/29/2015 | 8:28:28 | 57.41 | 51.81 | 74 | 1.08 | 1.30 | 4.0 |
| 4/29/2015 | 8:28:33 | 57.74 | 52.14 | 72 | 1.19 | 1.36 | 3.9 |
| 4/29/2015 | 8:28:38 | 58.07 | 52.47 | 69 | 1.05 | 1.32 | 3.8 |
| 4/29/2015 | 8:28:55 | 58.34 | 52.74 | 0 | 1.86 | 1.00 | 0.0 |

## J4 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:25:07

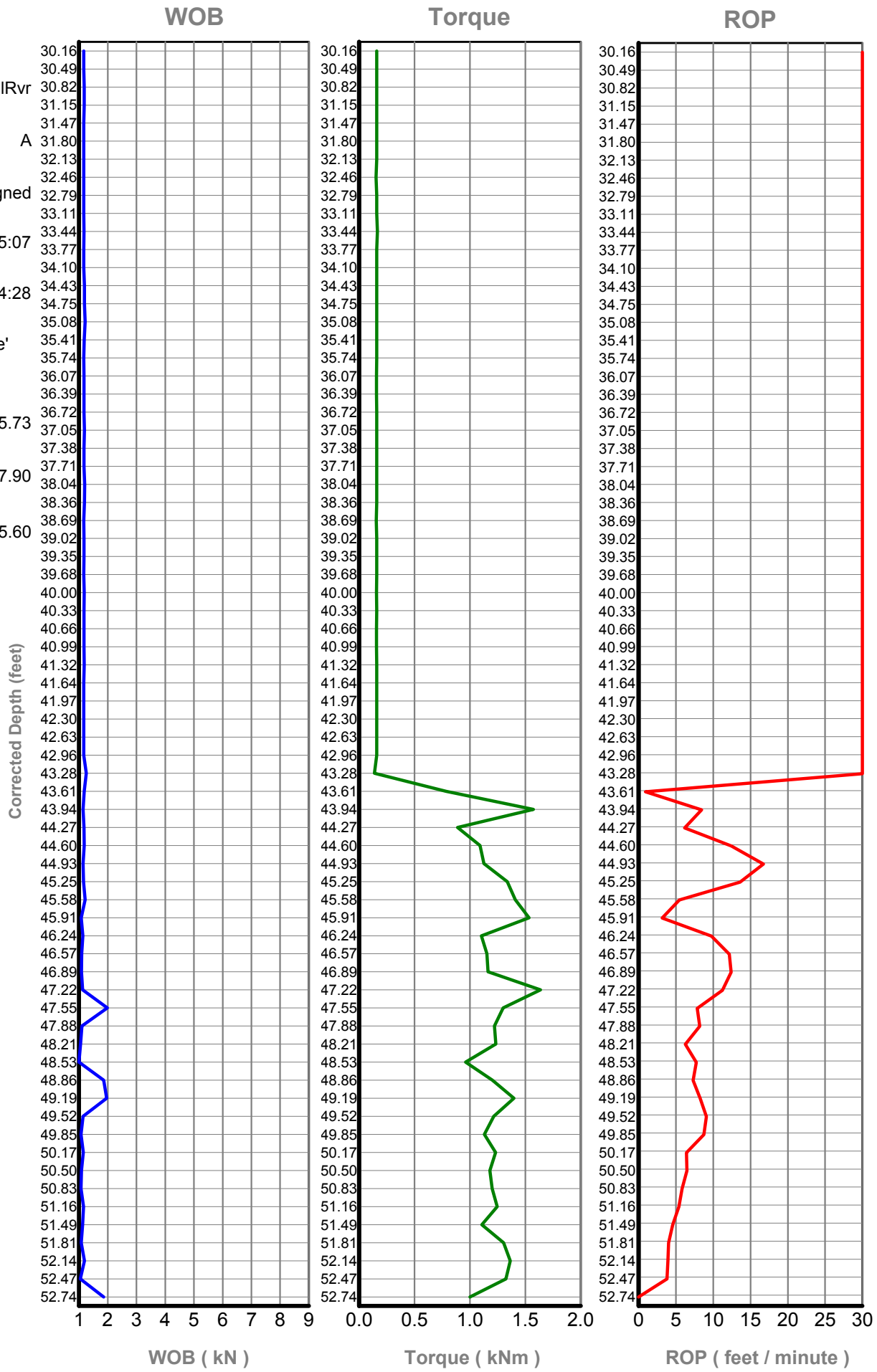
**End Date:**
4/29/2015 8:54:28

**Operator Note:**
'5.6 5.4 a Auto Complete'

**Northing:**
362,615.73

**Easting:**
246,327.90

**Tide (feet):**
5.60



## Hole: J5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:26:02 | 35.76 | 30.16 | 1,150 | 0.30 | 0.37 | 62.9 |
| 4/29/2015 8:26:02 | 36.09 | 30.49 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/29/2015 8:26:03 | 36.42 | 30.82 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/29/2015 8:26:03 | 36.75 | 31.15 | 1,175 | 0.30 | 0.38 | 64.2 |
| 4/29/2015 8:26:03 | 37.07 | 31.47 | 1,175 | 0.30 | 0.38 | 64.2 |
| 4/29/2015 8:26:03 | 37.40 | 31.80 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/29/2015 8:26:04 | 37.73 | 32.13 | 1,170 | 0.30 | 0.38 | 64.0 |
| 4/29/2015 8:26:04 | 38.06 | 32.46 | 1,170 | 0.30 | 0.38 | 64.0 |
| 4/29/2015 8:26:04 | 38.39 | 32.79 | 1,148 | 0.29 | 0.38 | 62.8 |
| 4/29/2015 8:26:05 | 38.71 | 33.11 | 1,148 | 0.29 | 0.38 | 62.8 |
| 4/29/2015 8:26:05 | 39.04 | 33.44 | 1,148 | 0.30 | 0.37 | 62.8 |
| 4/29/2015 8:26:05 | 39.37 | 33.77 | 1,176 | 0.48 | 0.41 | 64.3 |
| 4/29/2015 8:26:06 | 39.70 | 34.10 | 1,176 | 0.48 | 0.41 | 64.3 |
| 4/29/2015 8:26:06 | 40.03 | 34.43 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/29/2015 8:26:06 | 40.35 | 34.75 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/29/2015 8:26:06 | 40.68 | 35.08 | 1,163 | 0.48 | 0.39 | 63.6 |
| 4/29/2015 8:26:07 | 41.01 | 35.41 | 1,163 | 0.48 | 0.39 | 63.6 |
| 4/29/2015 8:26:07 | 41.34 | 35.74 | 1,163 | 0.29 | 0.37 | 63.6 |
| 4/29/2015 8:26:07 | 41.67 | 36.07 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/29/2015 8:26:08 | 41.99 | 36.39 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/29/2015 8:26:08 | 42.32 | 36.72 | 1,183 | 0.31 | 0.37 | 64.7 |
| 4/29/2015 8:26:08 | 42.65 | 37.05 | 1,183 | 0.31 | 0.37 | 64.7 |
| 4/29/2015 8:26:08 | 42.98 | 37.38 | 1,212 | 0.30 | 0.37 | 66.3 |
| 4/29/2015 8:26:09 | 43.31 | 37.71 | 1,212 | 0.30 | 0.37 | 66.3 |
| 4/29/2015 8:26:09 | 43.64 | 38.04 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/29/2015 8:26:09 | 43.96 | 38.36 | 1,204 | 0.30 | 0.37 | 65.9 |
| 4/29/2015 8:26:10 | 44.29 | 38.69 | 1,204 | 0.30 | 0.37 | 65.9 |
| 4/29/2015 8:26:10 | 44.62 | 39.02 | 1,202 | 0.30 | 0.38 | 65.8 |
| 4/29/2015 8:26:11 | 44.95 | 39.35 | 1,202 | 0.30 | 0.38 | 65.8 |
| 4/29/2015 8:26:11 | 45.28 | 39.68 | 1,200 | 0.31 | 0.36 | 65.6 |
| 4/29/2015 8:26:11 | 45.60 | 40.00 | 1,200 | 0.31 | 0.36 | 65.6 |
| 4/29/2015 8:26:11 | 45.93 | 40.33 | 1,211 | 0.30 | 0.38 | 66.2 |
| 4/29/2015 8:26:12 | 46.26 | 40.66 | 1,211 | 0.30 | 0.38 | 66.2 |
| 4/29/2015 8:26:12 | 46.59 | 40.99 | 1,214 | 0.31 | 0.38 | 66.4 |
| 4/29/2015 8:26:12 | 46.92 | 41.32 | 1,217 | 0.30 | 0.37 | 66.6 |
| 4/29/2015 8:26:13 | 47.24 | 41.64 | 1,217 | 0.30 | 0.37 | 66.6 |
| 4/29/2015 8:26:13 | 47.57 | 41.97 | 1,220 | 0.30 | 0.37 | 66.7 |
| 4/29/2015 8:26:13 | 47.90 | 42.30 | 1,220 | 0.30 | 0.37 | 66.7 |
| 4/29/2015 8:26:13 | 48.23 | 42.63 | 1,220 | 0.30 | 0.38 | 66.7 |
| 4/29/2015 8:26:14 | 48.56 | 42.96 | 1,220 | 0.30 | 0.38 | 66.7 |
| 4/29/2015 8:26:14 | 48.88 | 43.28 | 1,207 | 0.30 | 0.38 | 66.0 |
| 4/29/2015 8:26:14 | 49.21 | 43.61 | 1,220 | 0.31 | 0.37 | 66.7 |
| 4/29/2015 8:26:15 | 49.54 | 43.94 | 1,220 | 0.31 | 0.37 | 66.7 |
| 4/29/2015 8:26:15 | 49.87 | 44.27 | 1,217 | 0.26 | 0.43 | 66.6 |
| 4/29/2015 8:26:23 | 50.20 | 44.60 | 0 | 3.88 | 0.43 | 0.0 |
| 4/29/2015 8:26:26 | 50.53 | 44.93 | 141 | 3.39 | 0.41 | 7.7 |
| 4/29/2015 8:26:28 | 50.85 | 45.25 | 111 | 4.24 | 0.47 | 6.1 |
| 4/29/2015 8:26:31 | 51.18 | 45.58 | 137 | 3.94 | 0.48 | 7.5 |
| 4/29/2015 8:26:32 | 51.51 | 45.91 | 229 | 4.37 | 0.45 | 12.5 |
| 4/29/2015 8:26:34 | 51.84 | 46.24 | 219 | 3.78 | 0.45 | 12.0 |
| 4/29/2015 8:26:40 | 52.17 | 46.57 | 38 | 3.47 | 0.44 | 2.1 |
| 4/29/2015 8:26:45 | 52.49 | 46.89 | 0 | 3.37 | 0.42 | 0.0 |
| 4/29/2015 8:26:48 | 52.82 | 47.22 | 139 | 5.34 | 0.45 | 7.6 |
| 4/29/2015 8:26:54 | 53.15 | 47.55 | 52 | 5.53 | 0.46 | 2.9 |
| 4/29/2015 8:27:06 | 53.48 | 47.88 | 39 | 4.65 | 0.45 | 2.1 |
| 4/29/2015 8:27:11 | 53.81 | 48.21 | 35 | 4.06 | 0.44 | 1.9 |
| 4/29/2015 8:27:12 | 54.13 | 48.53 | 143 | 3.92 | 0.45 | 7.8 |
| 4/29/2015 8:27:13 | 54.46 | 48.86 | 306 | 3.42 | 0.44 | 16.7 |
| 4/29/2015 8:27:17 | 54.79 | 49.19 | 34 | 2.67 | 0.43 | 1.9 |
| 4/29/2015 8:27:18 | 55.12 | 49.52 | 134 | 3.05 | 0.43 | 7.3 |
| 4/29/2015 8:27:19 | 55.45 | 49.85 | 326 | 3.09 | 0.44 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:27:21 | 55.77 | 50.17 | 262 | 3.14 | 0.45 | 14.3 |
| 4/29/2015 | 8:27:22 | 56.10 | 50.50 | 267 | 2.99 | 0.46 | 14.6 |
| 4/29/2015 | 8:27:28 | 56.43 | 50.83 | 37 | 3.11 | 0.47 | 2.0 |
| 4/29/2015 | 8:27:41 | 56.76 | 51.16 | 23 | 2.96 | 0.47 | 1.3 |
| 4/29/2015 | 8:27:48 | 57.09 | 51.49 | 64 | 3.38 | 0.46 | 3.5 |
| 4/29/2015 | 8:27:53 | 57.41 | 51.81 | 76 | 3.67 | 0.46 | 4.1 |
| 4/29/2015 | 8:27:59 | 57.74 | 52.14 | 61 | 3.90 | 0.46 | 3.3 |
| 4/29/2015 | 8:28:00 | 57.81 | 52.21 | 67 | 3.39 | 0.46 | 3.6 |

## J5 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:23:49

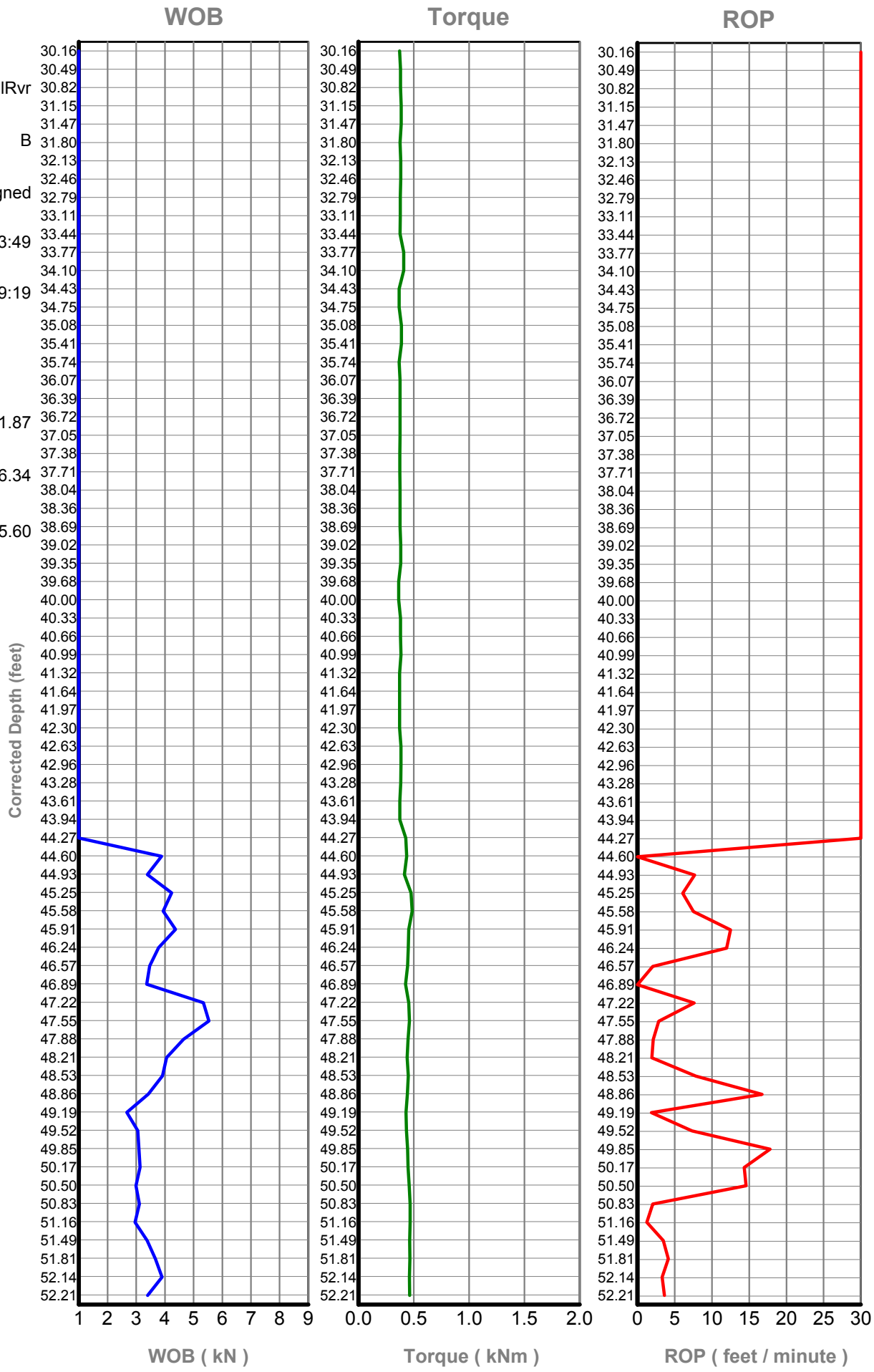
**End Date:**
4/29/2015 8:29:19

**Operator Note:**
'5.6 5.4 b Rock'

**Northing:**
362,661.87

**Easting:**
246,386.34

**Tide (feet):**
5.60



## Hole: J6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 8:25:24 | 35.76 | 30.16 | 1,091 | 1.59 | 0.28 | 59.7 |
| 4/29/2015 8:25:24 | 36.09 | 30.49 | 1,100 | 1.57 | 0.29 | 60.2 |
| 4/29/2015 8:25:25 | 36.42 | 30.82 | 1,100 | 1.57 | 0.29 | 60.2 |
| 4/29/2015 8:25:25 | 36.75 | 31.15 | 1,090 | 1.58 | 0.29 | 59.6 |
| 4/29/2015 8:25:25 | 37.07 | 31.47 | 1,090 | 1.58 | 0.29 | 59.6 |
| 4/29/2015 8:25:25 | 37.40 | 31.80 | 1,090 | 1.57 | 0.29 | 59.6 |
| 4/29/2015 8:25:26 | 37.73 | 32.13 | 1,083 | 1.59 | 0.29 | 59.2 |
| 4/29/2015 8:25:26 | 38.06 | 32.46 | 1,083 | 1.59 | 0.29 | 59.2 |
| 4/29/2015 8:25:26 | 38.39 | 32.79 | 1,093 | 1.58 | 0.29 | 59.8 |
| 4/29/2015 8:25:27 | 38.71 | 33.11 | 1,090 | 1.57 | 0.29 | 59.6 |
| 4/29/2015 8:25:27 | 39.04 | 33.44 | 1,090 | 1.57 | 0.29 | 59.6 |
| 4/29/2015 8:25:27 | 39.37 | 33.77 | 1,087 | 1.59 | 0.28 | 59.4 |
| 4/29/2015 8:25:28 | 39.70 | 34.10 | 1,090 | 1.57 | 0.28 | 59.6 |
| 4/29/2015 8:25:28 | 40.03 | 34.43 | 1,090 | 1.57 | 0.28 | 59.6 |
| 4/29/2015 8:25:28 | 40.35 | 34.75 | 1,090 | 1.58 | 0.29 | 59.6 |
| 4/29/2015 8:25:29 | 40.68 | 35.08 | 1,090 | 1.58 | 0.29 | 59.6 |
| 4/29/2015 8:25:29 | 41.01 | 35.41 | 1,090 | 1.57 | 0.28 | 59.6 |
| 4/29/2015 8:25:29 | 41.34 | 35.74 | 1,090 | 1.58 | 0.28 | 59.6 |
| 4/29/2015 8:25:30 | 41.67 | 36.07 | 1,090 | 1.58 | 0.28 | 59.6 |
| 4/29/2015 8:25:30 | 41.99 | 36.39 | 1,084 | 1.59 | 0.28 | 59.3 |
| 4/29/2015 8:25:30 | 42.32 | 36.72 | 1,087 | 1.59 | 0.28 | 59.4 |
| 4/29/2015 8:25:31 | 42.65 | 37.05 | 1,087 | 1.59 | 0.28 | 59.4 |
| 4/29/2015 8:25:31 | 42.98 | 37.38 | 1,084 | 1.60 | 0.28 | 59.3 |
| 4/29/2015 8:25:31 | 43.31 | 37.71 | 1,084 | 1.60 | 0.28 | 59.3 |
| 4/29/2015 8:25:31 | 43.64 | 38.04 | 1,081 | 1.59 | 0.28 | 59.1 |
| 4/29/2015 8:25:32 | 43.96 | 38.36 | 1,081 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 8:25:33 | 44.29 | 38.69 | 1,081 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 8:25:33 | 44.62 | 39.02 | 1,084 | 1.58 | 0.28 | 59.3 |
| 4/29/2015 8:25:33 | 44.95 | 39.35 | 1,078 | 1.57 | 0.28 | 59.0 |
| 4/29/2015 8:25:34 | 45.28 | 39.68 | 1,078 | 1.57 | 0.28 | 59.0 |
| 4/29/2015 8:25:34 | 45.60 | 40.00 | 1,081 | 1.60 | 0.28 | 59.1 |
| 4/29/2015 8:25:34 | 45.93 | 40.33 | 1,072 | 1.57 | 0.28 | 58.6 |
| 4/29/2015 8:25:35 | 46.26 | 40.66 | 1,072 | 1.57 | 0.28 | 58.6 |
| 4/29/2015 8:25:35 | 46.59 | 40.99 | 1,081 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 8:25:35 | 46.92 | 41.32 | 1,081 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 8:25:35 | 47.24 | 41.64 | 1,069 | 1.57 | 0.28 | 58.5 |
| 4/29/2015 8:25:36 | 47.57 | 41.97 | 1,082 | 1.58 | 0.29 | 59.2 |
| 4/29/2015 8:25:36 | 47.90 | 42.30 | 1,082 | 1.58 | 0.29 | 59.2 |
| 4/29/2015 8:25:36 | 48.23 | 42.63 | 1,079 | 1.58 | 0.28 | 59.0 |
| 4/29/2015 8:25:37 | 48.56 | 42.96 | 1,082 | 1.59 | 0.28 | 59.2 |
| 4/29/2015 8:25:37 | 48.88 | 43.28 | 1,082 | 1.59 | 0.28 | 59.2 |
| 4/29/2015 8:25:37 | 49.21 | 43.61 | 1,079 | 1.57 | 0.28 | 59.0 |
| 4/29/2015 8:25:38 | 49.54 | 43.94 | 1,085 | 1.64 | 0.28 | 59.4 |
| 4/29/2015 8:25:38 | 49.87 | 44.27 | 1,085 | 1.64 | 0.28 | 59.4 |
| 4/29/2015 8:25:59 | 50.20 | 44.60 | 97 | 1.59 | 0.99 | 5.3 |
| 4/29/2015 8:25:59 | 50.53 | 44.93 | 151 | 1.62 | 1.14 | 8.3 |
| 4/29/2015 8:26:00 | 50.85 | 45.25 | 191 | 1.64 | 1.20 | 10.5 |
| 4/29/2015 8:26:01 | 51.18 | 45.58 | 409 | 1.70 | 1.03 | 22.3 |
| 4/29/2015 8:26:01 | 51.51 | 45.91 | 526 | 1.68 | 1.06 | 28.7 |
| 4/29/2015 8:26:02 | 51.84 | 46.24 | 558 | 1.68 | 1.01 | 30.5 |
| 4/29/2015 8:26:02 | 52.17 | 46.57 | 578 | 1.64 | 1.00 | 31.6 |
| 4/29/2015 8:26:29 | 52.49 | 46.89 | 9 | 1.65 | 1.12 | 0.5 |
| 4/29/2015 8:27:02 | 52.82 | 47.22 | 0 | 1.64 | 1.07 | 0.0 |
| 4/29/2015 8:27:03 | 53.15 | 47.55 | 209 | 1.68 | 1.15 | 11.4 |
| 4/29/2015 8:28:16 | 53.48 | 47.88 | 0 | 1.58 | 1.18 | 0.0 |
| 4/29/2015 8:28:17 | 53.81 | 48.21 | 107 | 1.64 | 1.23 | 5.8 |
| 4/29/2015 8:28:19 | 54.13 | 48.53 | 238 | 1.66 | 1.42 | 13.0 |
| 4/29/2015 8:29:06 | 54.46 | 48.86 | 51 | 1.66 | 1.33 | 2.8 |
| 4/29/2015 8:29:08 | 54.79 | 49.19 | 185 | 1.65 | 1.27 | 10.1 |
| 4/29/2015 8:29:09 | 55.12 | 49.52 | 227 | 1.70 | 1.26 | 12.4 |
| 4/29/2015 8:29:10 | 55.45 | 49.85 | 280 | 1.66 | 0.94 | 15.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 8:29:59 | 55.77 | 50.17 | 46 | 1.68 | 1.01 | 2.5 |
| 4/29/2015 | 8:29:59 | 56.10 | 50.50 | 177 | 1.67 | 1.10 | 9.7 |
| 4/29/2015 | 8:30:00 | 56.43 | 50.83 | 289 | 1.65 | 1.09 | 15.8 |
| 4/29/2015 | 8:30:01 | 56.76 | 51.16 | 480 | 1.59 | 1.11 | 26.3 |
| 4/29/2015 | 8:30:02 | 57.09 | 51.49 | 443 | 1.65 | 1.19 | 24.2 |
| 4/29/2015 | 8:31:00 | 57.41 | 51.81 | 97 | 1.67 | 1.16 | 5.3 |
| 4/29/2015 | 8:31:06 | 57.74 | 52.14 | 31 | 1.64 | 1.05 | 1.7 |
| 4/29/2015 | 8:31:08 | 58.07 | 52.47 | 142 | 1.67 | 1.14 | 7.8 |
| 4/29/2015 | 8:31:21 | 58.40 | 52.80 | 43 | 1.64 | 1.13 | 2.4 |
| 4/29/2015 | 8:31:22 | 58.73 | 53.13 | 160 | 1.68 | 1.14 | 8.7 |
| 4/29/2015 | 8:31:23 | 59.06 | 53.46 | 238 | 1.64 | 1.15 | 13.0 |
| 4/29/2015 | 8:32:41 | 59.38 | 53.78 | 12 | 1.66 | 1.36 | 0.6 |
| 4/29/2015 | 8:32:43 | 59.71 | 54.11 | 160 | 1.65 | 1.24 | 8.8 |
| 4/29/2015 | 8:32:44 | 60.04 | 54.44 | 214 | 1.64 | 1.25 | 11.7 |
| 4/29/2015 | 8:32:46 | 60.37 | 54.77 | 179 | 1.64 | 1.27 | 9.8 |
| 4/29/2015 | 8:32:47 | 60.46 | 54.86 | 179 | 1.69 | 1.27 | 9.8 |

## J6 - Summary

**Pattern Number:**
AreaJ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 8:24:08

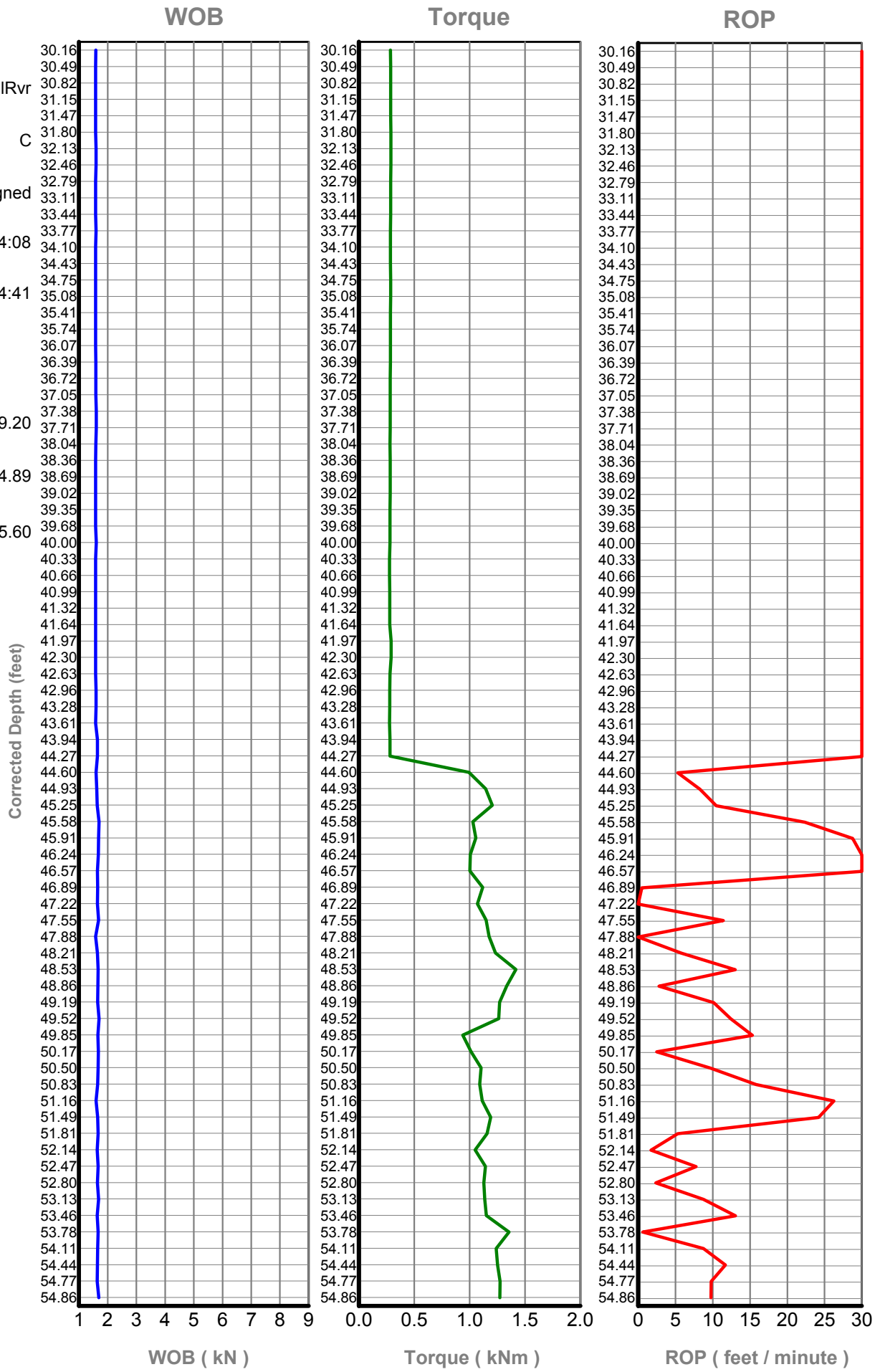
**End Date:**
4/29/2015 8:34:41

**Operator Note:**
'5.6 5.4 C Auto Complete'

**Northing:**
362,709.20

**Easting:**
246,444.89

**Tide (feet):**
5.60



## Hole: J7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:17:08 | 31.50 | 30.30 | 702 | 1.11 | 0.21 | 38.4 |
| 4/29/2015 5:17:09 | 31.82 | 30.62 | 702 | 1.11 | 0.21 | 38.4 |
| 4/29/2015 5:17:09 | 32.15 | 30.95 | 705 | 1.11 | 0.21 | 38.6 |
| 4/29/2015 5:17:10 | 32.48 | 31.28 | 705 | 1.11 | 0.21 | 38.6 |
| 4/29/2015 5:17:10 | 32.81 | 31.61 | 699 | 1.12 | 0.21 | 38.2 |
| 4/29/2015 5:17:10 | 33.14 | 31.94 | 703 | 1.11 | 0.21 | 38.5 |
| 4/29/2015 5:17:11 | 33.46 | 32.26 | 703 | 1.11 | 0.21 | 38.5 |
| 4/29/2015 5:17:12 | 33.79 | 32.59 | 702 | 1.11 | 0.21 | 38.4 |
| 4/29/2015 5:17:12 | 34.12 | 32.92 | 703 | 1.11 | 0.21 | 38.5 |
| 4/29/2015 5:17:13 | 34.45 | 33.25 | 701 | 1.11 | 0.21 | 38.3 |
| 4/29/2015 5:17:13 | 34.78 | 33.58 | 692 | 1.11 | 0.21 | 37.8 |
| 4/29/2015 5:17:14 | 35.11 | 33.91 | 699 | 1.11 | 0.21 | 38.2 |
| 4/29/2015 5:17:14 | 35.43 | 34.23 | 700 | 1.12 | 0.21 | 38.3 |
| 4/29/2015 5:17:15 | 35.76 | 34.56 | 682 | 1.11 | 0.21 | 37.3 |
| 4/29/2015 5:17:15 | 36.09 | 34.89 | 682 | 1.12 | 0.21 | 37.3 |
| 4/29/2015 5:17:16 | 36.42 | 35.22 | 694 | 1.11 | 0.21 | 38.0 |
| 4/29/2015 5:17:16 | 36.75 | 35.55 | 702 | 1.11 | 0.21 | 38.4 |
| 4/29/2015 5:17:17 | 37.07 | 35.87 | 695 | 1.12 | 0.21 | 38.0 |
| 4/29/2015 5:17:17 | 37.40 | 36.20 | 686 | 1.11 | 0.21 | 37.5 |
| 4/29/2015 5:17:18 | 37.73 | 36.53 | 700 | 1.11 | 0.21 | 38.3 |
| 4/29/2015 5:17:18 | 38.06 | 36.86 | 687 | 1.11 | 0.21 | 37.6 |
| 4/29/2015 5:17:19 | 38.39 | 37.19 | 689 | 1.11 | 0.21 | 37.7 |
| 4/29/2015 5:17:19 | 38.71 | 37.51 | 689 | 1.11 | 0.21 | 37.7 |
| 4/29/2015 5:17:20 | 39.04 | 37.84 | 694 | 1.12 | 0.21 | 37.9 |
| 4/29/2015 5:17:20 | 39.37 | 38.17 | 683 | 1.11 | 0.21 | 37.4 |
| 4/29/2015 5:17:21 | 39.70 | 38.50 | 683 | 1.11 | 0.21 | 37.4 |
| 4/29/2015 5:17:22 | 40.03 | 38.83 | 697 | 1.11 | 0.21 | 38.1 |
| 4/29/2015 5:17:22 | 40.35 | 39.15 | 704 | 1.11 | 0.21 | 38.5 |
| 4/29/2015 5:17:23 | 40.68 | 39.48 | 700 | 1.11 | 0.21 | 38.3 |
| 4/29/2015 5:17:23 | 41.01 | 39.81 | 683 | 1.09 | 0.21 | 37.3 |
| 4/29/2015 5:17:24 | 41.34 | 40.14 | 701 | 1.10 | 0.21 | 38.4 |
| 4/29/2015 5:17:24 | 41.67 | 40.47 | 701 | 1.11 | 0.21 | 38.3 |
| 4/29/2015 5:17:25 | 41.99 | 40.79 | 698 | 1.11 | 0.21 | 38.2 |
| 4/29/2015 5:17:25 | 42.32 | 41.12 | 698 | 1.11 | 0.21 | 38.2 |
| 4/29/2015 5:17:26 | 42.65 | 41.45 | 688 | 1.11 | 0.21 | 37.6 |
| 4/29/2015 5:17:26 | 42.98 | 41.78 | 688 | 1.11 | 0.21 | 37.6 |
| 4/29/2015 5:17:27 | 43.31 | 42.11 | 699 | 1.11 | 0.21 | 38.2 |
| 4/29/2015 5:17:27 | 43.64 | 42.44 | 673 | 1.09 | 0.21 | 36.8 |
| 4/29/2015 5:17:28 | 43.96 | 42.76 | 673 | 1.11 | 0.21 | 36.8 |
| 4/29/2015 5:17:28 | 44.29 | 43.09 | 675 | 1.11 | 0.21 | 36.9 |
| 4/29/2015 5:17:29 | 44.62 | 43.42 | 675 | 1.12 | 0.21 | 36.9 |
| 4/29/2015 5:17:29 | 44.95 | 43.75 | 683 | 1.11 | 0.21 | 37.4 |
| 4/29/2015 5:17:30 | 45.28 | 44.08 | 697 | 1.10 | 0.21 | 38.1 |
| 4/29/2015 5:17:30 | 45.60 | 44.40 | 671 | 1.11 | 0.21 | 36.7 |
| 4/29/2015 5:17:31 | 45.93 | 44.73 | 693 | 1.12 | 0.21 | 37.9 |
| 4/29/2015 5:17:32 | 46.26 | 45.06 | 693 | 1.11 | 0.21 | 37.9 |
| 4/29/2015 5:17:32 | 46.59 | 45.39 | 686 | 1.10 | 0.20 | 37.5 |
| 4/29/2015 5:17:33 | 46.92 | 45.72 | 689 | 1.14 | 0.20 | 37.7 |
| 4/29/2015 5:18:01 | 47.24 | 46.04 | 0 | 1.14 | 0.75 | 0.0 |
| 4/29/2015 5:18:01 | 47.57 | 46.37 | 89 | 1.19 | 1.26 | 4.8 |
| 4/29/2015 5:18:03 | 47.90 | 46.70 | 276 | 1.16 | 1.48 | 15.1 |
| 4/29/2015 5:18:11 | 48.23 | 47.03 | 0 | 1.03 | 1.49 | 0.0 |
| 4/29/2015 5:18:18 | 48.56 | 47.36 | 7 | 1.23 | 1.19 | 0.4 |
| 4/29/2015 5:18:19 | 48.88 | 47.68 | 109 | 0.98 | 1.32 | 6.0 |
| 4/29/2015 5:18:20 | 49.21 | 48.01 | 246 | 1.14 | 1.06 | 13.5 |
| 4/29/2015 5:18:39 | 49.54 | 48.34 | 14 | 1.83 | 1.43 | 0.7 |
| 4/29/2015 5:18:40 | 49.87 | 48.67 | 88 | 1.21 | 1.04 | 4.8 |
| 4/29/2015 5:19:00 | 50.20 | 49.00 | 6 | 1.13 | 1.41 | 0.3 |
| 4/29/2015 5:19:02 | 50.53 | 49.33 | 82 | 1.14 | 0.86 | 4.5 |
| 4/29/2015 5:19:03 | 50.85 | 49.65 | 230 | 1.15 | 0.88 | 12.6 |
| 4/29/2015 5:19:05 | 51.18 | 49.98 | 217 | 1.11 | 0.82 | 11.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:19:06 | 51.51 | 50.31 | 251 | 1.09 | 0.82 | 13.7 |
| 4/29/2015 | 5:19:07 | 51.84 | 50.64 | 342 | 1.20 | 0.82 | 18.7 |
| 4/29/2015 | 5:19:07 | 52.17 | 50.97 | 342 | 1.20 | 0.83 | 18.7 |
| 4/29/2015 | 5:19:08 | 52.49 | 51.29 | 434 | 1.20 | 0.87 | 23.7 |
| 4/29/2015 | 5:19:09 | 52.82 | 51.62 | 412 | 1.21 | 0.83 | 22.5 |
| 4/29/2015 | 5:19:10 | 53.15 | 51.95 | 382 | 1.14 | 0.77 | 20.9 |
| 4/29/2015 | 5:19:12 | 53.48 | 52.28 | 208 | 1.13 | 0.76 | 11.4 |
| 4/29/2015 | 5:19:13 | 53.81 | 52.61 | 208 | 1.10 | 0.75 | 11.4 |
| 4/29/2015 | 5:19:14 | 54.13 | 52.93 | 246 | 1.13 | 0.80 | 13.5 |
| 4/29/2015 | 5:19:15 | 54.46 | 53.26 | 246 | 1.12 | 0.76 | 13.5 |
| 4/29/2015 | 5:19:15 | 54.79 | 53.59 | 277 | 1.12 | 0.90 | 15.1 |
| 4/29/2015 | 5:19:17 | 55.12 | 53.92 | 425 | 1.13 | 0.93 | 23.2 |
| 4/29/2015 | 5:19:18 | 55.45 | 54.25 | 398 | 1.17 | 1.00 | 21.8 |
| 4/29/2015 | 5:19:19 | 55.77 | 54.57 | 300 | 1.15 | 0.87 | 16.4 |
| 4/29/2015 | 5:19:22 | 56.10 | 54.90 | 196 | 1.13 | 0.94 | 10.7 |
| 4/29/2015 | 5:19:22 | 56.15 | 54.95 | 196 | 1.13 | 0.94 | 10.7 |

## J7 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:14:41

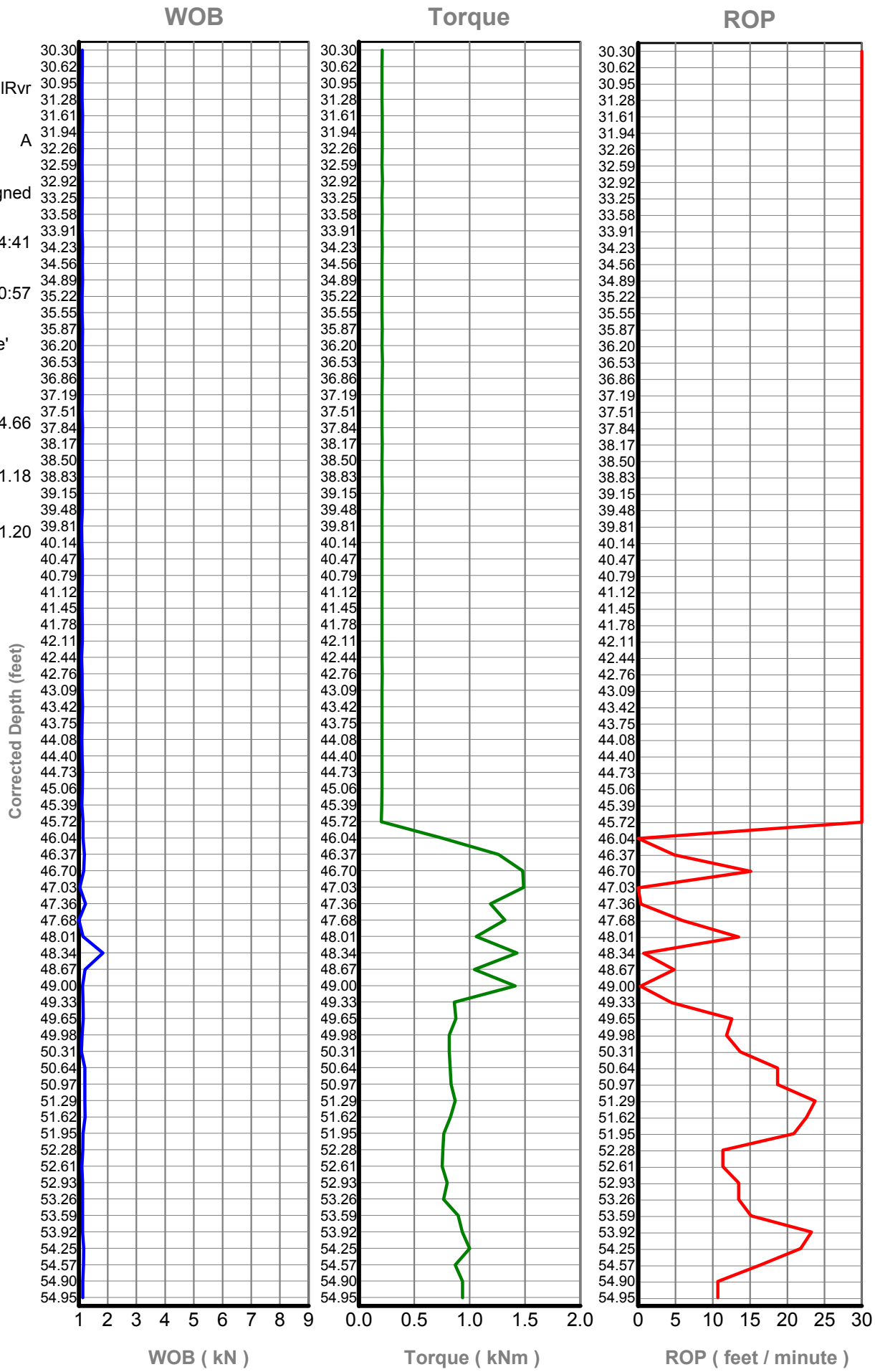
**End Date:**
4/29/2015 5:20:57

**Operator Note:**
'1.2 1.1 b Auto Complete'

**Northing:**
362,744.66

**Easting:**
246,491.18

**Tide (feet):**
1.20



## Hole: J8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:16:53 | 31.50 | 30.10 | 963 | 0.37 | 0.39 | 52.6 |
| 4/29/2015 5:16:53 | 31.82 | 30.42 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:16:54 | 32.15 | 30.75 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:16:54 | 32.48 | 31.08 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:16:54 | 32.81 | 31.41 | 954 | 0.36 | 0.40 | 52.2 |
| 4/29/2015 5:16:55 | 33.14 | 31.74 | 954 | 0.36 | 0.40 | 52.2 |
| 4/29/2015 5:16:55 | 33.46 | 32.06 | 952 | 0.36 | 0.39 | 52.1 |
| 4/29/2015 5:16:56 | 33.79 | 32.39 | 952 | 0.36 | 0.39 | 52.1 |
| 4/29/2015 5:16:56 | 34.12 | 32.72 | 961 | 0.37 | 0.39 | 52.6 |
| 4/29/2015 5:16:56 | 34.45 | 33.05 | 961 | 0.37 | 0.39 | 52.6 |
| 4/29/2015 5:16:57 | 34.78 | 33.38 | 959 | 0.36 | 0.39 | 52.4 |
| 4/29/2015 5:16:57 | 35.11 | 33.71 | 959 | 0.36 | 0.39 | 52.4 |
| 4/29/2015 5:16:57 | 35.43 | 34.03 | 956 | 0.36 | 0.39 | 52.3 |
| 4/29/2015 5:16:58 | 35.76 | 34.36 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:16:58 | 36.09 | 34.69 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:16:58 | 36.42 | 35.02 | 954 | 0.36 | 0.39 | 52.2 |
| 4/29/2015 5:16:59 | 36.75 | 35.35 | 948 | 0.36 | 0.39 | 51.9 |
| 4/29/2015 5:17:00 | 37.07 | 35.67 | 951 | 0.37 | 0.39 | 52.0 |
| 4/29/2015 5:17:00 | 37.40 | 36.00 | 951 | 0.37 | 0.39 | 52.0 |
| 4/29/2015 5:17:00 | 37.73 | 36.33 | 948 | 0.34 | 0.39 | 51.8 |
| 4/29/2015 5:17:01 | 38.06 | 36.66 | 948 | 0.34 | 0.39 | 51.8 |
| 4/29/2015 5:17:01 | 38.39 | 36.99 | 948 | 0.34 | 0.39 | 51.8 |
| 4/29/2015 5:17:01 | 38.71 | 37.31 | 953 | 0.37 | 0.39 | 52.1 |
| 4/29/2015 5:17:02 | 39.04 | 37.64 | 955 | 0.36 | 0.39 | 52.2 |
| 4/29/2015 5:17:02 | 39.37 | 37.97 | 956 | 0.37 | 0.39 | 52.3 |
| 4/29/2015 5:17:03 | 39.70 | 38.30 | 956 | 0.37 | 0.39 | 52.3 |
| 4/29/2015 5:17:03 | 40.03 | 38.63 | 959 | 0.37 | 0.39 | 52.4 |
| 4/29/2015 5:17:03 | 40.35 | 38.95 | 953 | 0.37 | 0.40 | 52.1 |
| 4/29/2015 5:17:04 | 40.68 | 39.28 | 953 | 0.37 | 0.40 | 52.1 |
| 4/29/2015 5:17:04 | 41.01 | 39.61 | 954 | 0.37 | 0.39 | 52.2 |
| 4/29/2015 5:17:04 | 41.34 | 39.94 | 957 | 0.37 | 0.39 | 52.4 |
| 4/29/2015 5:17:05 | 41.67 | 40.27 | 960 | 0.37 | 0.39 | 52.5 |
| 4/29/2015 5:17:05 | 41.99 | 40.59 | 960 | 0.37 | 0.39 | 52.5 |
| 4/29/2015 5:17:05 | 42.32 | 40.92 | 957 | 0.37 | 0.39 | 52.3 |
| 4/29/2015 5:17:06 | 42.65 | 41.25 | 971 | 0.37 | 0.39 | 53.1 |
| 4/29/2015 5:17:06 | 42.98 | 41.58 | 971 | 0.37 | 0.39 | 53.1 |
| 4/29/2015 5:17:06 | 43.31 | 41.91 | 966 | 0.37 | 0.39 | 52.8 |
| 4/29/2015 5:17:07 | 43.64 | 42.24 | 957 | 0.37 | 0.39 | 52.3 |
| 4/29/2015 5:17:07 | 43.96 | 42.56 | 960 | 0.37 | 0.41 | 52.5 |
| 4/29/2015 5:17:08 | 44.29 | 42.89 | 960 | 0.37 | 0.41 | 52.5 |
| 4/29/2015 5:17:08 | 44.62 | 43.22 | 969 | 0.39 | 0.39 | 53.0 |
| 4/29/2015 5:17:08 | 44.95 | 43.55 | 957 | 0.37 | 0.40 | 52.3 |
| 4/29/2015 5:17:09 | 45.28 | 43.88 | 957 | 0.37 | 0.40 | 52.3 |
| 4/29/2015 5:17:09 | 45.60 | 44.20 | 960 | 0.37 | 0.39 | 52.5 |
| 4/29/2015 5:17:10 | 45.93 | 44.53 | 960 | 0.35 | 0.41 | 52.5 |
| 4/29/2015 5:17:10 | 46.26 | 44.86 | 951 | 0.33 | 0.47 | 52.0 |
| 4/29/2015 5:17:15 | 46.59 | 45.19 | 113 | 4.06 | 0.45 | 6.2 |
| 4/29/2015 5:17:16 | 46.92 | 45.52 | 226 | 3.75 | 0.44 | 12.3 |
| 4/29/2015 5:17:18 | 47.24 | 45.84 | 257 | 3.71 | 0.45 | 14.1 |
| 4/29/2015 5:17:22 | 47.57 | 46.17 | 0 | 3.17 | 0.42 | 0.0 |
| 4/29/2015 5:17:23 | 47.90 | 46.50 | 114 | 3.25 | 0.44 | 6.3 |
| 4/29/2015 5:17:24 | 48.23 | 46.83 | 291 | 5.40 | 0.48 | 15.9 |
| 4/29/2015 5:17:35 | 48.56 | 47.16 | 0 | 6.98 | 0.48 | 0.0 |
| 4/29/2015 5:17:38 | 48.88 | 47.48 | 81 | 3.59 | 0.42 | 4.4 |
| 4/29/2015 5:17:38 | 49.21 | 47.81 | 81 | 2.65 | 0.42 | 4.4 |
| 4/29/2015 5:17:42 | 49.54 | 48.14 | 44 | 2.29 | 0.40 | 2.4 |
| 4/29/2015 5:17:43 | 49.87 | 48.47 | 44 | 2.29 | 0.40 | 2.4 |
| 4/29/2015 5:17:43 | 50.20 | 48.80 | 224 | 2.29 | 0.40 | 12.3 |
| 4/29/2015 5:17:43 | 50.53 | 49.13 | 401 | 2.23 | 0.39 | 21.9 |
| 4/29/2015 5:17:44 | 50.85 | 49.45 | 572 | 5.14 | 0.46 | 31.3 |
| 4/29/2015 5:17:44 | 51.18 | 49.78 | 652 | 2.84 | 0.42 | 35.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:17:45 | 51.51 | 50.11 | 608 | 2.86 | 0.43 | 33.2 |
| 4/29/2015 | 5:17:46 | 51.84 | 50.44 | 525 | 2.78 | 0.43 | 28.7 |
| 4/29/2015 | 5:17:47 | 52.17 | 50.77 | 449 | 2.74 | 0.44 | 24.6 |
| 4/29/2015 | 5:17:53 | 52.49 | 51.09 | 46 | 2.65 | 0.44 | 2.5 |
| 4/29/2015 | 5:17:54 | 52.82 | 51.42 | 205 | 2.71 | 0.44 | 11.2 |
| 4/29/2015 | 5:17:55 | 53.15 | 51.75 | 347 | 2.76 | 0.45 | 19.0 |
| 4/29/2015 | 5:17:56 | 53.48 | 52.08 | 361 | 2.66 | 0.43 | 19.8 |
| 4/29/2015 | 5:17:56 | 53.81 | 52.41 | 365 | 2.59 | 0.43 | 20.0 |
| 4/29/2015 | 5:17:57 | 54.13 | 52.73 | 414 | 2.76 | 0.43 | 22.6 |
| 4/29/2015 | 5:17:58 | 54.46 | 53.06 | 440 | 2.86 | 0.44 | 24.1 |
| 4/29/2015 | 5:17:59 | 54.79 | 53.39 | 474 | 2.83 | 0.44 | 25.9 |
| 4/29/2015 | 5:17:59 | 55.12 | 53.72 | 465 | 3.11 | 0.45 | 25.5 |
| 4/29/2015 | 5:18:00 | 55.45 | 54.05 | 422 | 3.13 | 0.44 | 23.1 |
| 4/29/2015 | 5:18:03 | 55.77 | 54.37 | 252 | 3.65 | 0.46 | 13.8 |
| 4/29/2015 | 5:18:40 | 56.10 | 54.70 | 31 | 3.57 | 0.47 | 1.7 |
| 4/29/2015 | 5:18:51 | 56.43 | 55.03 | 64 | 3.53 | 0.46 | 3.5 |
| 4/29/2015 | 5:18:55 | 56.74 | 55.34 | 81 | 3.57 | 0.47 | 4.4 |

## J8 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 5:15:20

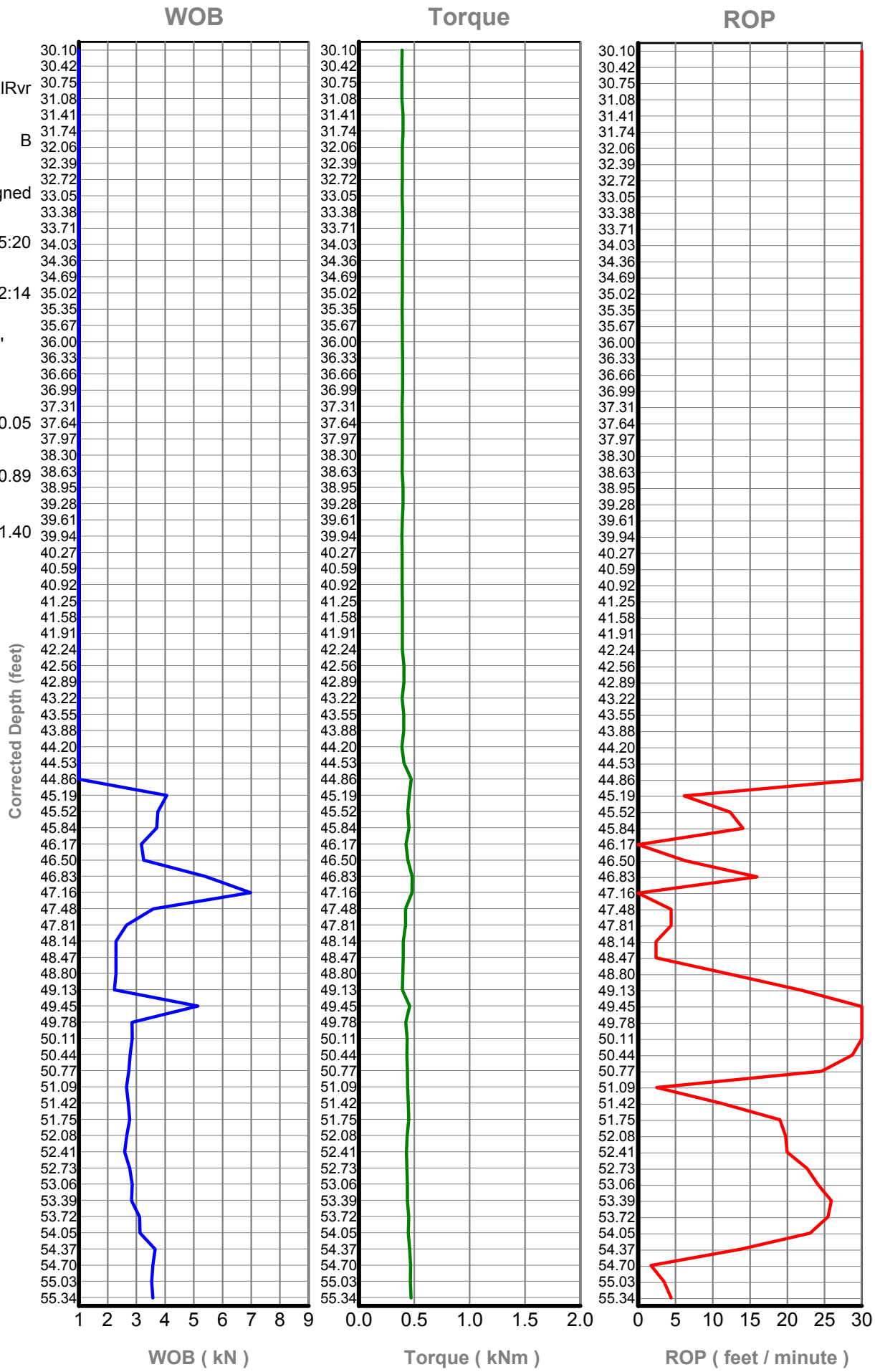
**End Date:**
4/29/2015 5:22:14

**Operator Note:**
'1.4 1.1b Auto Complete'

**Northing:**
362,790.05

**Easting:**
246,550.89

**Tide (feet):**
1.40



## Hole: J9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 5:16:53 | 31.50 | 30.10 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:16:53 | 31.82 | 30.42 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:16:54 | 32.15 | 30.75 | 1,067 | 1.59 | 0.14 | 58.3 |
| 4/29/2015 5:16:54 | 32.48 | 31.08 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 5:16:54 | 32.81 | 31.41 | 1,027 | 1.60 | 0.14 | 56.1 |
| 4/29/2015 5:16:55 | 33.14 | 31.74 | 1,027 | 1.60 | 0.14 | 56.1 |
| 4/29/2015 5:16:55 | 33.46 | 32.06 | 1,027 | 1.62 | 0.14 | 56.1 |
| 4/29/2015 5:16:55 | 33.79 | 32.39 | 1,048 | 1.62 | 0.14 | 57.3 |
| 4/29/2015 5:16:56 | 34.12 | 32.72 | 1,048 | 1.62 | 0.14 | 57.3 |
| 4/29/2015 5:16:56 | 34.45 | 33.05 | 1,047 | 1.61 | 0.14 | 57.3 |
| 4/29/2015 5:16:57 | 34.78 | 33.38 | 1,047 | 1.61 | 0.14 | 57.3 |
| 4/29/2015 5:16:57 | 35.11 | 33.71 | 1,054 | 1.59 | 0.14 | 57.6 |
| 4/29/2015 5:16:57 | 35.43 | 34.03 | 1,048 | 1.59 | 0.14 | 57.3 |
| 4/29/2015 5:16:58 | 35.76 | 34.36 | 1,048 | 1.59 | 0.14 | 57.3 |
| 4/29/2015 5:16:58 | 36.09 | 34.69 | 1,082 | 1.59 | 0.14 | 59.1 |
| 4/29/2015 5:16:58 | 36.42 | 35.02 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 5:16:59 | 36.75 | 35.35 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 5:16:59 | 37.07 | 35.67 | 1,058 | 1.61 | 0.14 | 57.9 |
| 4/29/2015 5:16:59 | 37.40 | 36.00 | 1,052 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:17:00 | 37.73 | 36.33 | 1,052 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:17:00 | 38.06 | 36.66 | 1,061 | 1.59 | 0.14 | 58.0 |
| 4/29/2015 5:17:00 | 38.39 | 36.99 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 5:17:01 | 38.71 | 37.31 | 1,061 | 1.60 | 0.14 | 58.0 |
| 4/29/2015 5:17:01 | 39.04 | 37.64 | 1,058 | 1.59 | 0.14 | 57.9 |
| 4/29/2015 5:17:01 | 39.37 | 37.97 | 1,039 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:17:02 | 39.70 | 38.30 | 1,039 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:17:02 | 40.03 | 38.63 | 1,039 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 5:17:02 | 40.35 | 38.95 | 1,039 | 1.60 | 0.14 | 56.8 |
| 4/29/2015 5:17:02 | 40.68 | 39.28 | 1,054 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:17:03 | 41.01 | 39.61 | 1,042 | 1.60 | 0.14 | 57.0 |
| 4/29/2015 5:17:03 | 41.34 | 39.94 | 1,042 | 1.60 | 0.14 | 57.0 |
| 4/29/2015 5:17:03 | 41.67 | 40.27 | 1,039 | 1.59 | 0.14 | 56.8 |
| 4/29/2015 5:17:04 | 41.99 | 40.59 | 1,045 | 1.58 | 0.14 | 57.1 |
| 4/29/2015 5:17:04 | 42.32 | 40.92 | 1,045 | 1.58 | 0.14 | 57.1 |
| 4/29/2015 5:17:04 | 42.65 | 41.25 | 1,067 | 1.61 | 0.14 | 58.3 |
| 4/29/2015 5:17:05 | 42.98 | 41.58 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:17:05 | 43.31 | 41.91 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:17:05 | 43.64 | 42.24 | 1,055 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 5:17:06 | 43.96 | 42.56 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:17:07 | 44.29 | 42.89 | 1,055 | 1.59 | 0.14 | 57.7 |
| 4/29/2015 5:17:07 | 44.62 | 43.22 | 1,052 | 1.59 | 0.14 | 57.5 |
| 4/29/2015 5:17:07 | 44.95 | 43.55 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 5:17:08 | 45.28 | 43.88 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 5:17:08 | 45.60 | 44.20 | 1,049 | 1.66 | 0.14 | 57.4 |
| 4/29/2015 5:17:08 | 45.93 | 44.53 | 1,052 | 1.60 | 0.14 | 57.5 |
| 4/29/2015 5:17:09 | 46.26 | 44.86 | 1,052 | 1.60 | 0.14 | 57.5 |
| 4/29/2015 5:17:09 | 46.59 | 45.19 | 1,056 | 1.60 | 0.14 | 57.7 |
| 4/29/2015 5:17:09 | 46.92 | 45.52 | 1,041 | 1.61 | 0.14 | 56.9 |
| 4/29/2015 5:17:10 | 47.24 | 45.84 | 1,041 | 1.61 | 0.14 | 56.9 |
| 4/29/2015 5:17:10 | 47.57 | 46.17 | 1,043 | 1.61 | 0.14 | 57.1 |
| 4/29/2015 5:17:10 | 47.90 | 46.50 | 1,043 | 1.61 | 0.14 | 57.1 |
| 4/29/2015 5:17:10 | 48.23 | 46.83 | 1,050 | 1.59 | 0.14 | 57.4 |
| 4/29/2015 5:17:11 | 48.56 | 47.16 | 1,050 | 1.67 | 0.14 | 57.4 |
| 4/29/2015 5:17:25 | 48.88 | 47.48 | 0 | 1.68 | 1.30 | 0.0 |
| 4/29/2015 5:17:31 | 49.21 | 47.81 | 127 | 1.68 | 1.18 | 6.9 |
| 4/29/2015 5:17:31 | 49.54 | 48.14 | 204 | 1.69 | 1.18 | 11.2 |
| 4/29/2015 5:17:32 | 49.87 | 48.47 | 336 | 1.68 | 1.28 | 18.4 |
| 4/29/2015 5:17:35 | 50.20 | 48.80 | 0 | 1.69 | 1.21 | 0.0 |
| 4/29/2015 5:17:36 | 50.53 | 49.13 | 100 | 1.64 | 1.43 | 5.5 |
| 4/29/2015 5:17:36 | 50.85 | 49.45 | 152 | 1.66 | 1.14 | 8.3 |
| 4/29/2015 5:17:37 | 51.18 | 49.78 | 293 | 1.62 | 1.14 | 16.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 5:17:38 | 51.51 | 50.11 | 442 | 1.68 | 1.16 | 24.1 |
| 4/29/2015 | 5:17:58 | 51.84 | 50.44 | 3 | 1.70 | 1.48 | 0.2 |
| 4/29/2015 | 5:18:04 | 52.17 | 50.77 | 72 | 1.72 | 1.33 | 3.9 |
| 4/29/2015 | 5:18:07 | 52.49 | 51.09 | 107 | 1.69 | 1.33 | 5.9 |
| 4/29/2015 | 5:18:09 | 52.82 | 51.42 | 165 | 1.64 | 1.43 | 9.0 |
| 4/29/2015 | 5:18:10 | 53.15 | 51.75 | 261 | 1.66 | 1.23 | 14.3 |
| 4/29/2015 | 5:18:26 | 53.48 | 52.08 | 18 | 1.65 | 1.24 | 1.0 |
| 4/29/2015 | 5:18:27 | 53.81 | 52.41 | 78 | 1.66 | 1.11 | 4.2 |
| 4/29/2015 | 5:18:28 | 54.13 | 52.73 | 322 | 1.63 | 1.11 | 17.6 |
| 4/29/2015 | 5:18:28 | 54.46 | 53.06 | 428 | 1.68 | 1.13 | 23.4 |
| 4/29/2015 | 5:18:29 | 54.79 | 53.39 | 519 | 1.63 | 1.14 | 28.4 |
| 4/29/2015 | 5:18:39 | 55.12 | 53.72 | 27 | 1.61 | 1.46 | 1.5 |
| 4/29/2015 | 5:18:41 | 55.45 | 54.05 | 171 | 1.66 | 1.20 | 9.3 |
| 4/29/2015 | 5:18:44 | 55.77 | 54.37 | 168 | 1.68 | 1.23 | 9.2 |
| 4/29/2015 | 5:18:47 | 56.09 | 54.69 | 84 | 1.87 | 1.20 | 4.6 |

## J9 - Summary

**Pattern Number:**
AreaJ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 5:15:49

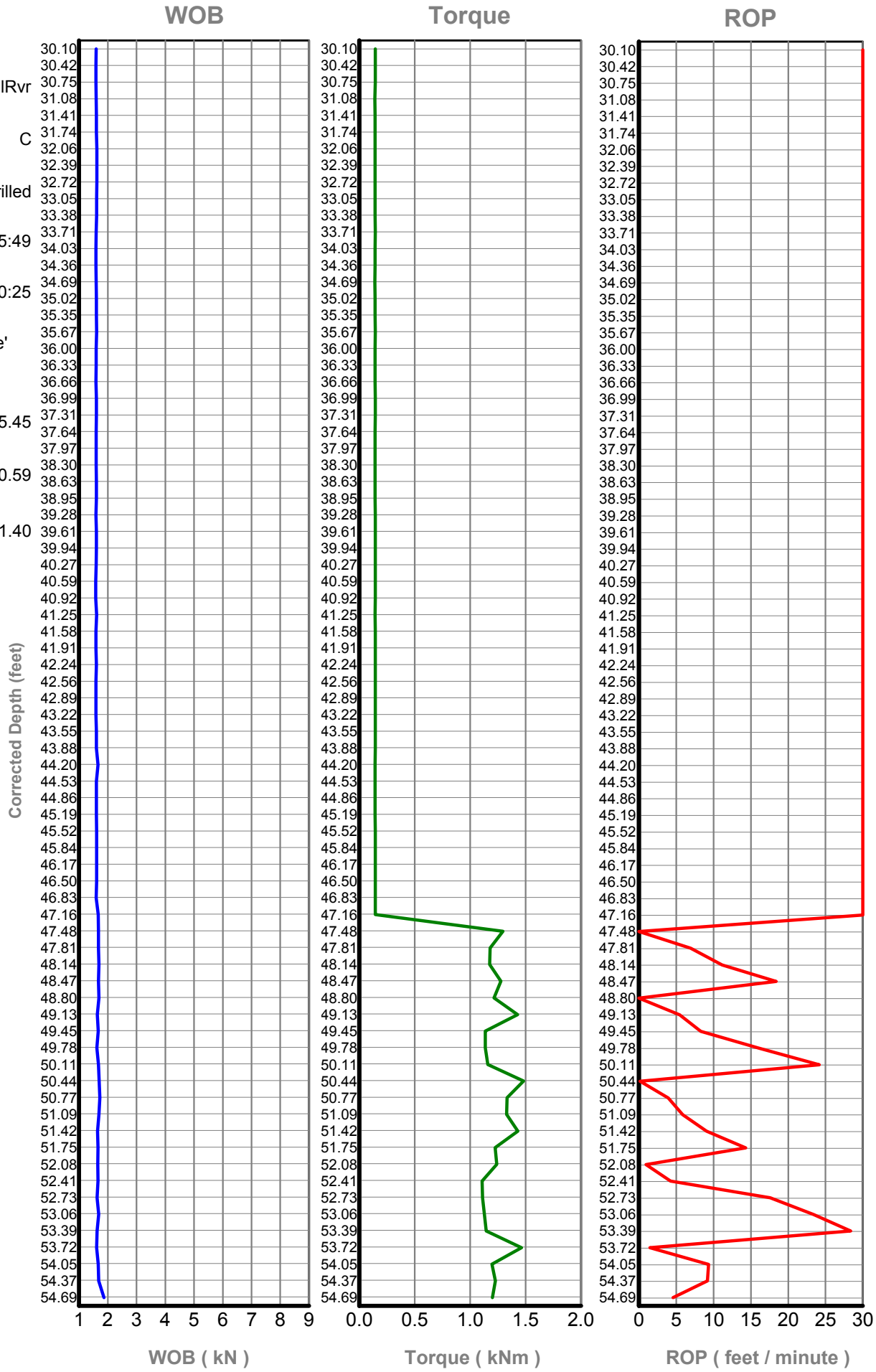
**End Date:**
4/29/2015 5:20:25

**Operator Note:**
'1.4 1.1 c Auto Complete'

**Northing:**
362,835.45

**Easting:**
246,610.59

**Tide (feet):**
1.40



## Hole: JCB-327-1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:02:05 | 31.82 | 30.22 | 965 | 0.29 | 0.37 | 52.8 |
| 4/15/2015 15:02:06 | 32.15 | 30.55 | 969 | 0.29 | 0.36 | 53.0 |
| 4/15/2015 15:02:06 | 32.48 | 30.88 | 954 | 0.29 | 0.38 | 52.2 |
| 4/15/2015 15:02:07 | 32.81 | 31.21 | 954 | 0.29 | 0.38 | 52.2 |
| 4/15/2015 15:02:07 | 33.14 | 31.54 | 957 | 0.29 | 0.37 | 52.3 |
| 4/15/2015 15:02:07 | 33.46 | 31.86 | 947 | 0.28 | 0.37 | 51.8 |
| 4/15/2015 15:02:08 | 33.79 | 32.19 | 947 | 0.28 | 0.37 | 51.8 |
| 4/15/2015 15:02:08 | 34.12 | 32.52 | 947 | 0.28 | 0.37 | 51.8 |
| 4/15/2015 15:02:09 | 34.45 | 32.85 | 952 | 0.28 | 0.37 | 52.1 |
| 4/15/2015 15:02:09 | 34.78 | 33.18 | 944 | 0.29 | 0.37 | 51.6 |
| 4/15/2015 15:02:10 | 35.11 | 33.51 | 944 | 0.29 | 0.37 | 51.6 |
| 4/15/2015 15:02:10 | 35.43 | 33.83 | 941 | 0.28 | 0.37 | 51.5 |
| 4/15/2015 15:02:10 | 35.76 | 34.16 | 943 | 0.28 | 0.37 | 51.6 |
| 4/15/2015 15:02:11 | 36.09 | 34.49 | 948 | 0.29 | 0.37 | 51.9 |
| 4/15/2015 15:02:11 | 36.42 | 34.82 | 948 | 0.29 | 0.37 | 51.9 |
| 4/15/2015 15:02:11 | 36.75 | 35.15 | 934 | 0.27 | 0.38 | 51.1 |
| 4/15/2015 15:02:12 | 37.07 | 35.47 | 922 | 0.29 | 0.37 | 50.4 |
| 4/15/2015 15:02:12 | 37.40 | 35.80 | 925 | 0.31 | 0.37 | 50.6 |
| 4/15/2015 15:02:13 | 37.73 | 36.13 | 925 | 0.31 | 0.37 | 50.6 |
| 4/15/2015 15:02:13 | 38.06 | 36.46 | 919 | 0.28 | 0.38 | 50.3 |
| 4/15/2015 15:02:13 | 38.39 | 36.79 | 928 | 0.29 | 0.37 | 50.7 |
| 4/15/2015 15:02:14 | 38.71 | 37.11 | 928 | 0.29 | 0.37 | 50.7 |
| 4/15/2015 15:02:14 | 39.04 | 37.44 | 925 | 0.28 | 0.37 | 50.6 |
| 4/15/2015 15:02:14 | 39.37 | 37.77 | 925 | 0.28 | 0.37 | 50.6 |
| 4/15/2015 15:02:15 | 39.70 | 38.10 | 919 | 0.28 | 0.37 | 50.3 |
| 4/15/2015 15:02:15 | 40.03 | 38.43 | 919 | 0.28 | 0.37 | 50.3 |
| 4/15/2015 15:02:15 | 40.35 | 38.75 | 928 | 0.28 | 0.37 | 50.8 |
| 4/15/2015 15:02:16 | 40.68 | 39.08 | 916 | 0.28 | 0.38 | 50.1 |
| 4/15/2015 15:02:16 | 41.01 | 39.41 | 905 | 0.29 | 0.37 | 49.5 |
| 4/15/2015 15:02:17 | 41.34 | 39.74 | 902 | 0.28 | 0.36 | 49.3 |
| 4/15/2015 15:02:17 | 41.67 | 40.07 | 902 | 0.28 | 0.36 | 49.3 |
| 4/15/2015 15:02:17 | 41.99 | 40.39 | 908 | 0.28 | 0.37 | 49.6 |
| 4/15/2015 15:02:18 | 42.32 | 40.72 | 899 | 0.29 | 0.37 | 49.2 |
| 4/15/2015 15:02:19 | 42.65 | 41.05 | 899 | 0.28 | 0.37 | 49.2 |
| 4/15/2015 15:02:19 | 42.98 | 41.38 | 899 | 0.28 | 0.37 | 49.2 |
| 4/15/2015 15:02:19 | 43.31 | 41.71 | 902 | 0.28 | 0.37 | 49.3 |
| 4/15/2015 15:02:20 | 43.64 | 42.04 | 913 | 0.28 | 0.37 | 49.9 |
| 4/15/2015 15:02:20 | 43.96 | 42.36 | 913 | 0.25 | 0.44 | 49.9 |
| 4/15/2015 15:02:24 | 44.29 | 42.69 | 87 | 3.64 | 0.44 | 4.8 |
| 4/15/2015 15:02:28 | 44.62 | 43.02 | 72 | 3.45 | 0.43 | 3.9 |
| 4/15/2015 15:02:31 | 44.95 | 43.35 | 116 | 3.06 | 0.41 | 6.4 |
| 4/15/2015 15:02:32 | 45.28 | 43.68 | 252 | 4.24 | 0.43 | 13.8 |
| 4/15/2015 15:02:32 | 45.60 | 44.00 | 329 | 3.12 | 0.42 | 18.0 |
| 4/15/2015 15:02:33 | 45.93 | 44.33 | 421 | 3.28 | 0.40 | 23.0 |
| 4/15/2015 15:02:42 | 46.26 | 44.66 | 70 | 2.88 | 0.46 | 3.8 |
| 4/15/2015 15:03:06 | 46.59 | 44.99 | 124 | 3.29 | 0.41 | 6.8 |
| 4/15/2015 15:03:09 | 46.92 | 45.32 | 142 | 2.88 | 0.42 | 7.8 |
| 4/15/2015 15:03:10 | 47.24 | 45.64 | 193 | 3.38 | 0.44 | 10.5 |
| 4/15/2015 15:03:16 | 47.57 | 45.97 | 0 | 2.85 | 0.41 | 0.0 |
| 4/15/2015 15:03:17 | 47.90 | 46.30 | 140 | 2.52 | 0.40 | 7.7 |
| 4/15/2015 15:03:18 | 48.23 | 46.63 | 237 | 2.40 | 0.41 | 13.0 |
| 4/15/2015 15:03:19 | 48.56 | 46.96 | 309 | 2.34 | 0.42 | 16.9 |
| 4/15/2015 15:03:20 | 48.88 | 47.28 | 373 | 2.42 | 0.40 | 20.4 |
| 4/15/2015 15:03:21 | 49.21 | 47.61 | 361 | 2.38 | 0.40 | 19.8 |
| 4/15/2015 15:03:22 | 49.54 | 47.94 | 361 | 2.51 | 0.40 | 19.8 |
| 4/15/2015 15:03:23 | 49.87 | 48.27 | 386 | 3.12 | 0.41 | 21.1 |
| 4/15/2015 15:03:51 | 50.20 | 48.60 | 44 | 3.28 | 0.44 | 2.4 |
| 4/15/2015 15:03:53 | 50.53 | 48.93 | 209 | 2.86 | 0.42 | 11.4 |
| 4/15/2015 15:03:54 | 50.85 | 49.25 | 273 | 3.53 | 0.42 | 14.9 |
| 4/15/2015 15:05:14 | 51.18 | 49.58 | 35 | 3.54 | 0.43 | 1.9 |
| 4/15/2015 15:05:30 | 51.51 | 49.91 | 0 | 3.66 | 0.42 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 15:06:51 | 51.84 | 50.24 | 0 | 3.88 | 0.42 | 0.0 |
| 4/15/2015 | 15:06:53 | 52.17 | 50.57 | 94 | 3.59 | 0.41 | 5.1 |
| 4/15/2015 | 15:06:54 | 52.49 | 50.89 | 173 | 2.90 | 0.42 | 9.5 |
| 4/15/2015 | 15:06:56 | 52.82 | 51.22 | 203 | 3.14 | 0.41 | 11.1 |
| 4/15/2015 | 15:06:57 | 53.15 | 51.55 | 240 | 3.10 | 0.42 | 13.1 |
| 4/15/2015 | 15:06:59 | 53.48 | 51.88 | 249 | 3.20 | 0.43 | 13.6 |
| 4/15/2015 | 15:07:01 | 53.81 | 52.21 | 244 | 2.93 | 0.43 | 13.3 |
| 4/15/2015 | 15:07:02 | 54.13 | 52.53 | 234 | 3.07 | 0.41 | 12.8 |
| 4/15/2015 | 15:07:04 | 54.46 | 52.86 | 190 | 3.27 | 0.43 | 10.4 |
| 4/15/2015 | 15:07:06 | 54.79 | 53.19 | 165 | 3.54 | 0.42 | 9.0 |
| 4/15/2015 | 15:09:07 | 55.12 | 53.52 | 69 | 2.13 | 0.40 | 3.8 |
| 4/15/2015 | 15:09:08 | 55.45 | 53.85 | 193 | 2.50 | 0.40 | 10.6 |
| 4/15/2015 | 15:09:09 | 55.77 | 54.17 | 276 | 2.10 | 0.41 | 15.1 |
| 4/15/2015 | 15:09:10 | 56.10 | 54.50 | 427 | 2.47 | 0.41 | 23.4 |
| 4/15/2015 | 15:09:10 | 56.43 | 54.83 | 466 | 3.02 | 0.42 | 25.5 |
| 4/15/2015 | 15:09:14 | 56.67 | 55.07 | 32 | 3.24 | 0.43 | 1.7 |

## JCB-327-1 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 14:56:19

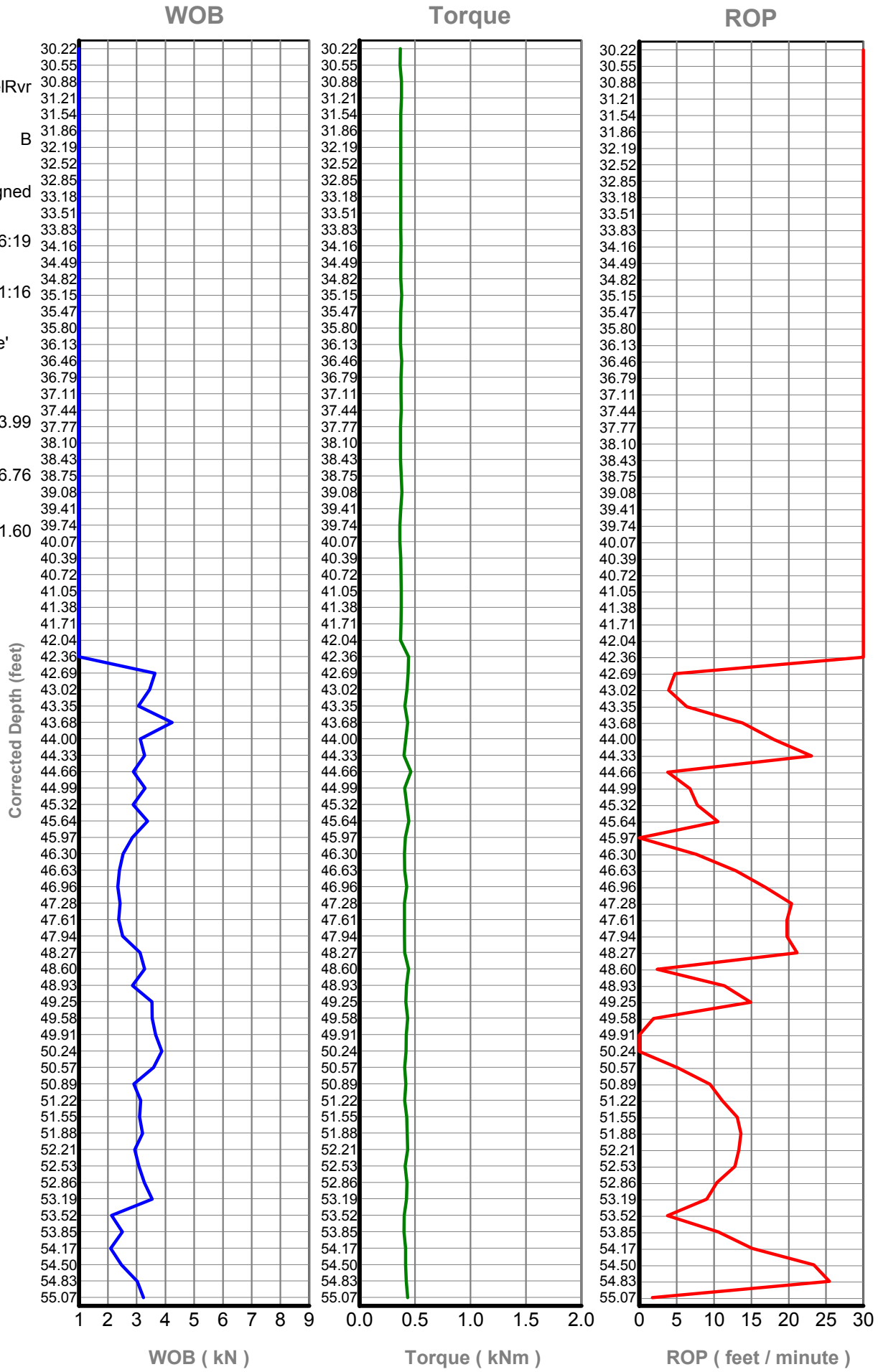
**End Date:**
4/15/2015 15:11:16

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
362,913.99

**Easting:**
246,456.76

**Tide (feet):**
1.60



## Hole: JCB-327-10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 16:51:12 | 30.18 | 30.18 | 910 | 3.45 | 0.52 | 49.8 |
| 4/14/2015 16:51:13 | 30.51 | 30.51 | 778 | 3.47 | 0.40 | 42.5 |
| 4/14/2015 16:51:14 | 30.84 | 30.84 | 778 | 3.47 | 0.40 | 42.5 |
| 4/14/2015 16:51:14 | 31.17 | 31.17 | 735 | 3.46 | 0.40 | 40.2 |
| 4/14/2015 16:51:14 | 31.50 | 31.50 | 731 | 3.48 | 0.39 | 39.9 |
| 4/14/2015 16:51:15 | 31.82 | 31.82 | 732 | 3.44 | 0.41 | 40.0 |
| 4/14/2015 16:51:15 | 32.15 | 32.15 | 763 | 3.45 | 0.41 | 41.7 |
| 4/14/2015 16:51:16 | 32.48 | 32.48 | 763 | 3.45 | 0.41 | 41.7 |
| 4/14/2015 16:51:16 | 32.81 | 32.81 | 855 | 3.46 | 0.40 | 46.8 |
| 4/14/2015 16:51:16 | 33.14 | 33.14 | 895 | 3.43 | 0.40 | 49.0 |
| 4/14/2015 16:51:17 | 33.46 | 33.46 | 899 | 3.45 | 0.39 | 49.2 |
| 4/14/2015 16:51:17 | 33.79 | 33.79 | 899 | 3.45 | 0.39 | 49.2 |
| 4/14/2015 16:51:17 | 34.12 | 34.12 | 911 | 3.45 | 0.40 | 49.8 |
| 4/14/2015 16:51:18 | 34.45 | 34.45 | 919 | 3.44 | 0.40 | 50.3 |
| 4/14/2015 16:51:18 | 34.78 | 34.78 | 919 | 3.44 | 0.40 | 50.3 |
| 4/14/2015 16:51:18 | 35.11 | 35.11 | 934 | 3.45 | 0.40 | 51.1 |
| 4/14/2015 16:51:19 | 35.43 | 35.43 | 925 | 3.44 | 0.40 | 50.6 |
| 4/14/2015 16:51:19 | 35.76 | 35.76 | 943 | 3.45 | 0.40 | 51.6 |
| 4/14/2015 16:51:20 | 36.09 | 36.09 | 943 | 3.45 | 0.40 | 51.6 |
| 4/14/2015 16:51:20 | 36.42 | 36.42 | 940 | 3.45 | 0.40 | 51.4 |
| 4/14/2015 16:51:20 | 36.75 | 36.75 | 952 | 3.44 | 0.40 | 52.0 |
| 4/14/2015 16:51:21 | 37.07 | 37.07 | 946 | 3.43 | 0.40 | 51.7 |
| 4/14/2015 16:51:21 | 37.40 | 37.40 | 946 | 3.43 | 0.40 | 51.7 |
| 4/14/2015 16:51:21 | 37.73 | 37.73 | 957 | 3.43 | 0.40 | 52.3 |
| 4/14/2015 16:51:22 | 38.06 | 38.06 | 954 | 4.45 | 0.43 | 52.2 |
| 4/14/2015 16:51:22 | 38.39 | 38.39 | 923 | 3.61 | 0.14 | 50.4 |
| 4/14/2015 16:51:27 | 38.71 | 38.71 | 48 | 3.37 | 0.41 | 2.6 |
| 4/14/2015 16:51:27 | 39.04 | 39.04 | 145 | 3.39 | 0.41 | 7.9 |
| 4/14/2015 16:51:28 | 39.37 | 39.37 | 266 | 3.38 | 0.41 | 14.6 |
| 4/14/2015 16:51:28 | 39.70 | 39.70 | 385 | 3.39 | 0.41 | 21.1 |
| 4/14/2015 16:51:29 | 40.03 | 40.03 | 512 | 3.40 | 0.41 | 28.0 |
| 4/14/2015 16:51:30 | 40.35 | 40.35 | 582 | 3.39 | 0.41 | 31.8 |
| 4/14/2015 16:51:30 | 40.68 | 40.68 | 605 | 3.39 | 0.42 | 33.1 |
| 4/14/2015 16:51:31 | 41.01 | 41.01 | 605 | 3.37 | 0.41 | 33.1 |
| 4/14/2015 16:51:31 | 41.34 | 41.34 | 610 | 3.40 | 0.42 | 33.3 |
| 4/14/2015 16:51:32 | 41.67 | 41.67 | 611 | 3.98 | 0.43 | 33.4 |
| 4/14/2015 16:52:01 | 41.99 | 41.99 | 54 | 2.14 | 0.12 | 2.9 |
| 4/14/2015 16:52:04 | 42.32 | 42.32 | 57 | 2.98 | 0.49 | 3.1 |
| 4/14/2015 16:52:07 | 42.65 | 42.65 | 113 | 3.36 | 0.43 | 6.2 |
| 4/14/2015 16:52:09 | 42.98 | 42.98 | 171 | 2.64 | 0.07 | 9.4 |
| 4/14/2015 16:52:11 | 43.31 | 43.31 | 148 | 2.78 | 0.42 | 8.1 |
| 4/14/2015 16:52:12 | 43.64 | 43.64 | 231 | 2.91 | 0.43 | 12.7 |
| 4/14/2015 16:52:13 | 43.96 | 43.96 | 327 | 3.05 | 0.47 | 17.9 |
| 4/14/2015 16:52:17 | 44.29 | 44.29 | 100 | 3.83 | 0.44 | 5.5 |
| 4/14/2015 16:52:20 | 44.62 | 44.62 | 93 | 3.11 | 0.46 | 5.1 |
| 4/14/2015 16:52:21 | 44.95 | 44.95 | 183 | 2.89 | 0.43 | 10.0 |
| 4/14/2015 16:52:23 | 45.28 | 45.28 | 208 | 2.72 | 0.43 | 11.4 |
| 4/14/2015 16:52:25 | 45.60 | 45.60 | 195 | 3.09 | 0.42 | 10.7 |
| 4/14/2015 16:52:27 | 45.93 | 45.93 | 187 | 2.63 | 0.42 | 10.2 |
| 4/14/2015 16:52:29 | 46.26 | 46.26 | 197 | 2.63 | 0.41 | 10.8 |
| 4/14/2015 16:52:30 | 46.59 | 46.59 | 207 | 2.37 | 0.47 | 11.3 |
| 4/14/2015 16:52:33 | 46.92 | 46.92 | 138 | 5.09 | 0.40 | 7.5 |
| 4/14/2015 16:52:33 | 47.24 | 47.24 | 161 | 4.34 | 0.39 | 8.8 |
| 4/14/2015 16:52:34 | 47.57 | 47.57 | 266 | 3.84 | 0.43 | 14.5 |
| 4/14/2015 16:52:44 | 47.90 | 47.90 | 0 | 2.44 | 0.35 | 0.0 |
| 4/14/2015 16:52:45 | 48.23 | 48.23 | 226 | 4.47 | 0.36 | 12.4 |
| 4/14/2015 16:52:48 | 48.56 | 48.56 | 225 | 4.54 | 0.41 | 12.3 |
| 4/14/2015 16:52:50 | 48.88 | 48.88 | 171 | 5.23 | 0.41 | 9.3 |
| 4/14/2015 16:52:52 | 49.21 | 49.21 | 146 | 4.55 | 0.42 | 8.0 |
| 4/14/2015 16:52:55 | 49.54 | 49.54 | 137 | 4.77 | 0.43 | 7.5 |
| 4/14/2015 16:52:57 | 49.87 | 49.87 | 152 | 3.94 | 0.41 | 8.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 16:53:00 | 50.20 | 50.20 | 122 | 5.04 | 0.40 | 6.7 |
| 4/14/2015 | 16:53:02 | 50.53 | 50.53 | 145 | 4.83 | 0.38 | 7.9 |
| 4/14/2015 | 16:53:04 | 50.85 | 50.85 | 209 | 5.14 | 0.36 | 11.4 |
| 4/14/2015 | 16:53:07 | 51.18 | 51.18 | 136 | 6.36 | 0.08 | 7.5 |
| 4/14/2015 | 16:53:13 | 51.51 | 51.51 | 46 | 3.50 | 0.40 | 2.5 |
| 4/14/2015 | 16:53:15 | 51.84 | 51.84 | 141 | 4.32 | 0.36 | 7.7 |
| 4/14/2015 | 16:53:17 | 52.17 | 52.17 | 194 | 4.17 | 0.39 | 10.6 |
| 4/14/2015 | 16:53:21 | 52.49 | 52.49 | 53 | 3.79 | 0.38 | 2.9 |
| 4/14/2015 | 16:53:22 | 52.82 | 52.82 | 178 | 2.55 | 0.42 | 9.8 |
| 4/14/2015 | 16:53:23 | 53.15 | 53.15 | 290 | 3.75 | 0.36 | 15.9 |
| 4/14/2015 | 16:53:24 | 53.48 | 53.48 | 373 | 4.79 | 0.32 | 20.4 |
| 4/14/2015 | 16:53:25 | 53.81 | 53.81 | 356 | 3.63 | 0.36 | 19.5 |
| 4/14/2015 | 16:53:26 | 54.13 | 54.13 | 335 | 4.46 | 0.38 | 18.3 |
| 4/14/2015 | 16:53:29 | 54.46 | 54.46 | 140 | 5.16 | 0.42 | 7.7 |
| 4/14/2015 | 16:53:31 | 54.79 | 54.79 | 104 | 4.96 | 0.45 | 5.7 |
| 4/14/2015 | 16:53:33 | 55.12 | 55.12 | 189 | 3.86 | 0.14 | 10.3 |
| 4/14/2015 | 16:53:33 | 55.18 | 55.18 | 189 | 3.86 | 0.14 | 10.3 |

## JCB-327-10 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 16:48:52

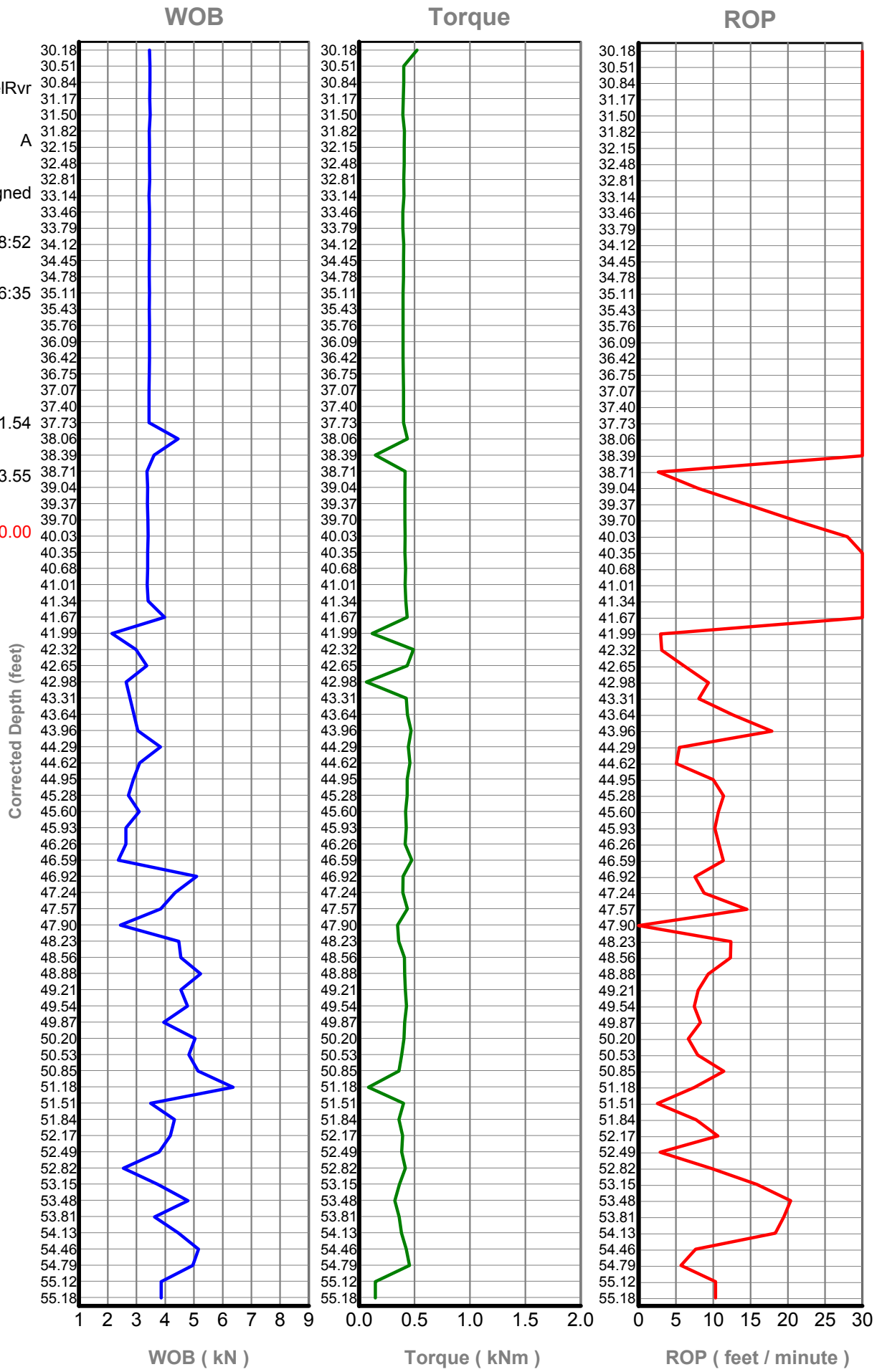
**End Date:**
4/14/2015 16:56:35

**Operator Note:**
'0 .2 a Auto Complete'

**Northing:**
371,071.54

**Easting:**
258,213.55

**Tide (feet):**
0.00



## Hole: JCB-327-11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:02:48 | 31.50 | 30.30 | 1,067 | 3.06 | 0.40 | 58.4 |
| 4/14/2015 15:02:49 | 31.82 | 30.62 | 1,077 | 3.04 | 0.39 | 58.9 |
| 4/14/2015 15:02:49 | 32.15 | 30.95 | 1,077 | 3.04 | 0.39 | 58.9 |
| 4/14/2015 15:02:49 | 32.48 | 31.28 | 1,049 | 3.03 | 0.39 | 57.3 |
| 4/14/2015 15:02:50 | 32.81 | 31.61 | 1,049 | 3.03 | 0.39 | 57.3 |
| 4/14/2015 15:02:50 | 33.14 | 31.94 | 1,049 | 3.04 | 0.40 | 57.3 |
| 4/14/2015 15:02:50 | 33.46 | 32.26 | 1,059 | 3.08 | 0.39 | 57.9 |
| 4/14/2015 15:02:51 | 33.79 | 32.59 | 1,059 | 3.08 | 0.39 | 57.9 |
| 4/14/2015 15:02:51 | 34.12 | 32.92 | 1,043 | 3.11 | 0.40 | 57.0 |
| 4/14/2015 15:02:51 | 34.45 | 33.25 | 1,048 | 3.08 | 0.40 | 57.3 |
| 4/14/2015 15:02:52 | 34.78 | 33.58 | 1,048 | 3.08 | 0.40 | 57.3 |
| 4/14/2015 15:02:52 | 35.11 | 33.91 | 1,054 | 3.07 | 0.40 | 57.6 |
| 4/14/2015 15:02:52 | 35.43 | 34.23 | 1,084 | 3.09 | 0.40 | 59.3 |
| 4/14/2015 15:02:53 | 35.76 | 34.56 | 1,084 | 3.09 | 0.40 | 59.3 |
| 4/14/2015 15:02:53 | 36.09 | 34.89 | 1,057 | 3.12 | 0.40 | 57.8 |
| 4/14/2015 15:02:53 | 36.42 | 35.22 | 1,057 | 3.12 | 0.40 | 57.8 |
| 4/14/2015 15:02:53 | 36.75 | 35.55 | 1,057 | 3.12 | 0.39 | 57.8 |
| 4/14/2015 15:02:54 | 37.07 | 35.87 | 1,071 | 3.10 | 0.40 | 58.6 |
| 4/14/2015 15:02:54 | 37.40 | 36.20 | 1,071 | 3.10 | 0.40 | 58.6 |
| 4/14/2015 15:02:54 | 37.73 | 36.53 | 1,077 | 3.10 | 0.40 | 58.9 |
| 4/14/2015 15:02:55 | 38.06 | 36.86 | 1,071 | 3.09 | 0.40 | 58.6 |
| 4/14/2015 15:02:56 | 38.39 | 37.19 | 1,071 | 3.09 | 0.40 | 58.6 |
| 4/14/2015 15:02:56 | 38.71 | 37.51 | 1,071 | 3.10 | 0.40 | 58.6 |
| 4/14/2015 15:02:56 | 39.04 | 37.84 | 1,095 | 3.09 | 0.40 | 59.9 |
| 4/14/2015 15:02:57 | 39.37 | 38.17 | 1,095 | 3.09 | 0.40 | 59.9 |
| 4/14/2015 15:02:57 | 39.70 | 38.50 | 1,084 | 3.07 | 0.40 | 59.3 |
| 4/14/2015 15:02:57 | 40.03 | 38.83 | 1,084 | 3.07 | 0.40 | 59.3 |
| 4/14/2015 15:02:57 | 40.35 | 39.15 | 1,084 | 3.09 | 0.40 | 59.3 |
| 4/14/2015 15:02:58 | 40.68 | 39.48 | 1,081 | 3.14 | 0.40 | 59.1 |
| 4/14/2015 15:02:58 | 41.01 | 39.81 | 1,081 | 3.14 | 0.40 | 59.1 |
| 4/14/2015 15:02:58 | 41.34 | 40.14 | 1,081 | 3.18 | 0.41 | 59.1 |
| 4/14/2015 15:02:59 | 41.67 | 40.47 | 1,072 | 3.17 | 0.40 | 58.6 |
| 4/14/2015 15:02:59 | 41.99 | 40.79 | 1,072 | 3.17 | 0.40 | 58.6 |
| 4/14/2015 15:02:59 | 42.32 | 41.12 | 1,072 | 3.17 | 0.39 | 58.6 |
| 4/14/2015 15:03:00 | 42.65 | 41.45 | 1,066 | 3.18 | 0.40 | 58.3 |
| 4/14/2015 15:03:00 | 42.98 | 41.78 | 1,066 | 3.18 | 0.40 | 58.3 |
| 4/14/2015 15:03:00 | 43.31 | 42.11 | 1,081 | 3.17 | 0.40 | 59.1 |
| 4/14/2015 15:03:01 | 43.64 | 42.44 | 1,081 | 3.17 | 0.40 | 59.1 |
| 4/14/2015 15:03:01 | 43.96 | 42.76 | 1,078 | 3.18 | 0.40 | 59.0 |
| 4/14/2015 15:03:01 | 44.29 | 43.09 | 1,075 | 5.31 | 0.48 | 58.8 |
| 4/14/2015 15:03:47 | 44.62 | 43.42 | 0 | 2.29 | 0.38 | 0.0 |
| 4/14/2015 15:03:55 | 44.95 | 43.75 | 0 | 4.64 | 0.50 | 0.0 |
| 4/14/2015 15:04:05 | 45.28 | 44.08 | 0 | 2.84 | 0.44 | 0.0 |
| 4/14/2015 15:04:10 | 45.60 | 44.40 | 64 | 3.71 | 0.43 | 3.5 |
| 4/14/2015 15:04:36 | 45.93 | 44.73 | 0 | 3.13 | 0.41 | 0.0 |
| 4/14/2015 15:05:56 | 46.26 | 45.06 | 49 | 4.26 | 0.42 | 2.7 |
| 4/14/2015 15:05:58 | 46.59 | 45.39 | 113 | 2.87 | 0.41 | 6.2 |
| 4/14/2015 15:06:01 | 46.92 | 45.72 | 119 | 3.22 | 0.47 | 6.5 |
| 4/14/2015 15:06:03 | 47.24 | 46.04 | 147 | 3.35 | 0.48 | 8.1 |
| 4/14/2015 15:06:06 | 47.57 | 46.37 | 134 | 4.26 | 0.47 | 7.3 |
| 4/14/2015 15:06:07 | 47.90 | 46.70 | 202 | 4.41 | 0.45 | 11.0 |
| 4/14/2015 15:06:08 | 48.23 | 47.03 | 299 | 3.39 | 0.46 | 16.3 |
| 4/14/2015 15:06:22 | 48.56 | 47.36 | 23 | 4.07 | 0.42 | 1.2 |
| 4/14/2015 15:06:24 | 48.88 | 47.68 | 222 | 3.11 | 0.42 | 12.1 |
| 4/14/2015 15:06:25 | 49.21 | 48.01 | 312 | 5.33 | 0.42 | 17.1 |
| 4/14/2015 15:06:27 | 49.54 | 48.34 | 147 | 4.48 | 0.46 | 8.1 |
| 4/14/2015 15:06:28 | 49.87 | 48.67 | 202 | 5.55 | 0.39 | 11.1 |
| 4/14/2015 15:06:31 | 50.20 | 49.00 | 131 | 4.19 | 0.51 | 7.2 |
| 4/14/2015 15:06:37 | 50.53 | 49.33 | 81 | 3.86 | 0.44 | 4.4 |
| 4/14/2015 15:06:40 | 50.85 | 49.65 | 180 | 5.54 | 0.39 | 9.9 |
| 4/14/2015 15:06:50 | 51.18 | 49.98 | 3 | 3.80 | 0.34 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:06:58 | 51.51 | 50.31 | 39 | 4.17 | 0.36 | 2.2 |
| 4/14/2015 | 15:07:03 | 51.84 | 50.64 | 27 | 5.10 | 0.40 | 1.5 |
| 4/14/2015 | 15:07:33 | 52.17 | 50.97 | 0 | 4.96 | 0.39 | 0.0 |
| 4/14/2015 | 15:07:36 | 52.49 | 51.29 | 121 | 4.24 | 0.43 | 6.6 |
| 4/14/2015 | 15:07:37 | 52.82 | 51.62 | 168 | 4.27 | 0.41 | 9.2 |
| 4/14/2015 | 15:07:39 | 53.15 | 51.95 | 253 | 4.89 | 0.51 | 13.9 |
| 4/14/2015 | 15:07:46 | 53.48 | 52.28 | 107 | 3.67 | 0.09 | 5.9 |
| 4/14/2015 | 15:07:49 | 53.81 | 52.61 | 146 | 5.14 | 0.36 | 8.0 |
| 4/14/2015 | 15:07:57 | 54.13 | 52.93 | 17 | 4.02 | 0.32 | 1.0 |
| 4/14/2015 | 15:07:59 | 54.46 | 53.26 | 158 | 3.12 | 0.38 | 8.7 |
| 4/14/2015 | 15:08:01 | 54.79 | 53.59 | 166 | 3.48 | 0.34 | 9.1 |
| 4/14/2015 | 15:08:02 | 55.12 | 53.92 | 216 | 2.86 | 0.34 | 11.8 |
| 4/14/2015 | 15:08:13 | 55.45 | 54.25 | 3 | 2.63 | 0.35 | 0.2 |
| 4/14/2015 | 15:08:15 | 55.77 | 54.57 | 232 | 3.96 | 0.41 | 12.7 |
| 4/14/2015 | 15:08:16 | 56.10 | 54.90 | 243 | 5.82 | 0.40 | 13.3 |
| 4/14/2015 | 15:08:28 | 56.43 | 55.23 | 83 | 2.65 | 0.10 | 4.5 |
| 4/14/2015 | 15:08:30 | 56.76 | 55.56 | 216 | 3.77 | 0.15 | 11.8 |
| 4/14/2015 | 15:08:35 | 57.09 | 55.89 | 89 | 3.79 | 0.44 | 4.9 |
| 4/14/2015 | 15:08:40 | 57.41 | 56.21 | 59 | 3.59 | 0.44 | 3.2 |
| 4/14/2015 | 15:08:50 | 57.68 | 56.48 | 50 | 3.74 | 0.43 | 2.7 |

## JCB-327-11 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 14:57:46

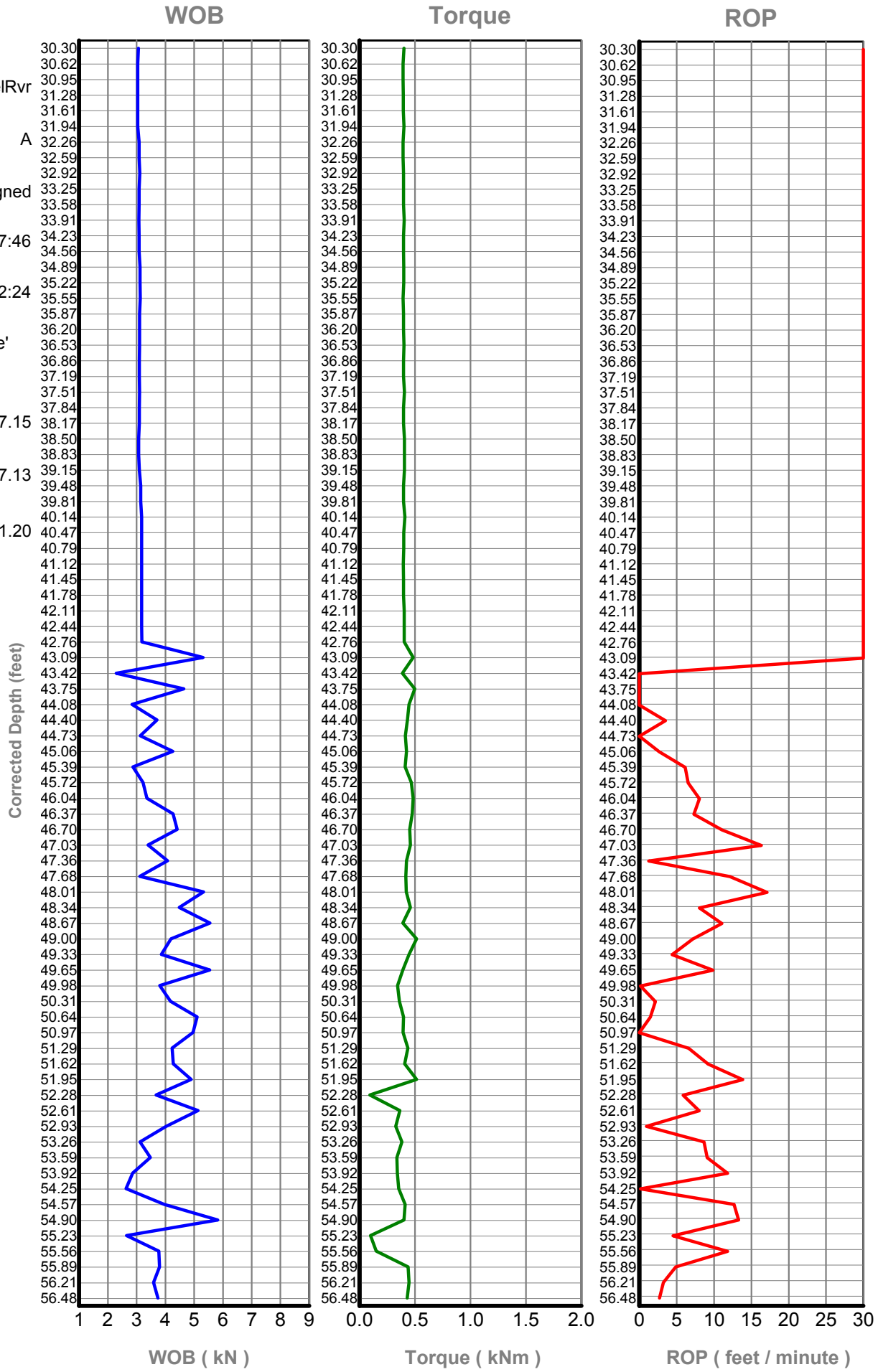
**End Date:**
4/14/2015 15:12:24

**Operator Note:**
'1.2 1.7 a Auto Complete'

**Northing:**
362,897.15

**Easting:**
246,437.13

**Tide (feet):**
1.20



## Hole: JCB-327-13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:18:56 | 31.17 | 30.17 | 621 | 2.24 | 0.36 | 34.0 |
| 4/14/2015 15:18:57 | 31.50 | 30.50 | 669 | 2.23 | 0.36 | 36.6 |
| 4/14/2015 15:18:57 | 31.82 | 30.82 | 669 | 2.23 | 0.36 | 36.6 |
| 4/14/2015 15:18:57 | 32.15 | 31.15 | 806 | 2.22 | 0.37 | 44.1 |
| 4/14/2015 15:18:58 | 32.48 | 31.48 | 911 | 2.24 | 0.36 | 49.8 |
| 4/14/2015 15:18:58 | 32.81 | 31.81 | 911 | 2.24 | 0.36 | 49.8 |
| 4/14/2015 15:18:58 | 33.14 | 32.14 | 992 | 2.25 | 0.38 | 54.2 |
| 4/14/2015 15:18:59 | 33.46 | 32.46 | 992 | 2.25 | 0.38 | 54.2 |
| 4/14/2015 15:18:59 | 33.79 | 32.79 | 1,063 | 2.26 | 0.36 | 58.1 |
| 4/14/2015 15:18:59 | 34.12 | 33.12 | 1,105 | 2.23 | 0.36 | 60.4 |
| 4/14/2015 15:19:00 | 34.45 | 33.45 | 1,105 | 2.23 | 0.36 | 60.4 |
| 4/14/2015 15:19:00 | 34.78 | 33.78 | 1,125 | 2.24 | 0.38 | 61.5 |
| 4/14/2015 15:19:00 | 35.11 | 34.11 | 1,125 | 2.24 | 0.38 | 61.5 |
| 4/14/2015 15:19:00 | 35.43 | 34.43 | 1,139 | 2.26 | 0.37 | 62.3 |
| 4/14/2015 15:19:01 | 35.76 | 34.76 | 1,139 | 2.25 | 0.37 | 62.3 |
| 4/14/2015 15:19:01 | 36.09 | 35.09 | 1,139 | 2.25 | 0.37 | 62.3 |
| 4/14/2015 15:19:01 | 36.42 | 35.42 | 1,142 | 2.25 | 0.37 | 62.4 |
| 4/14/2015 15:19:02 | 36.75 | 35.75 | 1,142 | 2.25 | 0.37 | 62.4 |
| 4/14/2015 15:19:02 | 37.07 | 36.07 | 1,135 | 2.23 | 0.37 | 62.1 |
| 4/14/2015 15:19:02 | 37.40 | 36.40 | 1,145 | 2.23 | 0.37 | 62.6 |
| 4/14/2015 15:19:03 | 37.73 | 36.73 | 1,145 | 2.23 | 0.37 | 62.6 |
| 4/14/2015 15:19:03 | 38.06 | 37.06 | 1,142 | 2.21 | 0.38 | 62.4 |
| 4/14/2015 15:19:03 | 38.39 | 37.39 | 1,142 | 2.21 | 0.38 | 62.4 |
| 4/14/2015 15:19:04 | 38.71 | 37.71 | 1,148 | 2.21 | 0.37 | 62.8 |
| 4/14/2015 15:19:04 | 39.04 | 38.04 | 1,148 | 2.21 | 0.36 | 62.8 |
| 4/14/2015 15:19:05 | 39.37 | 38.37 | 1,148 | 2.21 | 0.36 | 62.8 |
| 4/14/2015 15:19:05 | 39.70 | 38.70 | 1,161 | 2.23 | 0.36 | 63.5 |
| 4/14/2015 15:19:05 | 40.03 | 39.03 | 1,161 | 2.23 | 0.36 | 63.5 |
| 4/14/2015 15:19:05 | 40.35 | 39.35 | 1,148 | 2.23 | 0.38 | 62.8 |
| 4/14/2015 15:19:06 | 40.68 | 39.68 | 1,128 | 2.20 | 0.41 | 61.7 |
| 4/14/2015 15:19:06 | 41.01 | 40.01 | 1,055 | 2.24 | 0.39 | 57.7 |
| 4/14/2015 15:19:07 | 41.34 | 40.34 | 950 | 2.46 | 0.39 | 51.9 |
| 4/14/2015 15:19:07 | 41.67 | 40.67 | 837 | 3.42 | 0.41 | 45.8 |
| 4/14/2015 15:19:10 | 41.99 | 40.99 | 104 | 2.35 | 0.35 | 5.7 |
| 4/14/2015 15:19:10 | 42.32 | 41.32 | 119 | 2.30 | 0.41 | 6.5 |
| 4/14/2015 15:19:12 | 42.65 | 41.65 | 335 | 2.31 | 0.38 | 18.3 |
| 4/14/2015 15:19:12 | 42.98 | 41.98 | 484 | 2.80 | 0.40 | 26.5 |
| 4/14/2015 15:19:13 | 43.31 | 42.31 | 484 | 2.80 | 0.40 | 26.5 |
| 4/14/2015 15:19:13 | 43.64 | 42.64 | 575 | 2.72 | 0.40 | 31.5 |
| 4/14/2015 15:19:13 | 43.96 | 42.96 | 626 | 2.72 | 0.38 | 34.2 |
| 4/14/2015 15:19:14 | 44.29 | 43.29 | 737 | 4.05 | 0.40 | 40.3 |
| 4/14/2015 15:19:21 | 44.62 | 43.62 | 49 | 2.98 | 0.40 | 2.7 |
| 4/14/2015 15:19:23 | 44.95 | 43.95 | 194 | 1.85 | 0.09 | 10.6 |
| 4/14/2015 15:19:24 | 45.28 | 44.28 | 129 | 3.61 | 0.36 | 7.0 |
| 4/14/2015 15:19:26 | 45.60 | 44.60 | 224 | 2.72 | 0.11 | 12.3 |
| 4/14/2015 15:19:28 | 45.93 | 44.93 | 235 | 3.07 | 0.40 | 12.9 |
| 4/14/2015 15:19:28 | 46.26 | 45.26 | 317 | 3.13 | 0.38 | 17.3 |
| 4/14/2015 15:19:38 | 46.59 | 45.59 | 37 | 3.75 | 0.33 | 2.0 |
| 4/14/2015 15:19:40 | 46.92 | 45.92 | 123 | 3.48 | 0.30 | 6.7 |
| 4/14/2015 15:19:40 | 47.24 | 46.24 | 241 | 4.28 | 0.38 | 13.2 |
| 4/14/2015 15:19:48 | 47.57 | 46.57 | 0 | 3.64 | 0.33 | 0.0 |
| 4/14/2015 15:19:49 | 47.90 | 46.90 | 183 | 2.59 | 0.36 | 10.0 |
| 4/14/2015 15:19:50 | 48.23 | 47.23 | 351 | 2.20 | 0.34 | 19.2 |
| 4/14/2015 15:19:51 | 48.56 | 47.56 | 397 | 2.76 | 0.35 | 21.7 |
| 4/14/2015 15:19:52 | 48.88 | 47.88 | 346 | 3.33 | 0.35 | 18.9 |
| 4/14/2015 15:19:53 | 49.21 | 48.21 | 305 | 3.52 | 0.36 | 16.7 |
| 4/14/2015 15:20:03 | 49.54 | 48.54 | 66 | 4.40 | 0.40 | 3.6 |
| 4/14/2015 15:20:04 | 49.87 | 48.87 | 211 | 4.09 | 0.48 | 11.5 |
| 4/14/2015 15:20:07 | 50.20 | 49.20 | 193 | 5.10 | 0.43 | 10.6 |
| 4/14/2015 15:20:09 | 50.53 | 49.53 | 143 | 4.34 | 0.41 | 7.8 |
| 4/14/2015 15:20:13 | 50.85 | 49.85 | 64 | 4.23 | 0.04 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:20:29 | 51.18 | 50.18 | 62 | 4.71 | 0.32 | 3.4 |
| 4/14/2015 | 15:20:32 | 51.51 | 50.51 | 96 | 5.40 | 0.35 | 5.2 |
| 4/14/2015 | 15:20:35 | 51.84 | 50.84 | 69 | 5.15 | 0.33 | 3.8 |
| 4/14/2015 | 15:20:51 | 52.17 | 51.17 | 66 | 3.43 | 0.35 | 3.6 |
| 4/14/2015 | 15:20:53 | 52.49 | 51.49 | 191 | 4.51 | 0.30 | 10.4 |
| 4/14/2015 | 15:20:55 | 52.82 | 51.82 | 228 | 4.95 | 0.39 | 12.5 |
| 4/14/2015 | 15:20:56 | 53.15 | 52.15 | 292 | 4.72 | 0.37 | 16.0 |
| 4/14/2015 | 15:20:57 | 53.48 | 52.48 | 253 | 3.57 | 0.37 | 13.8 |
| 4/14/2015 | 15:20:59 | 53.81 | 52.81 | 280 | 4.47 | 0.38 | 15.3 |
| 4/14/2015 | 15:21:00 | 54.13 | 53.13 | 312 | 3.79 | 0.36 | 17.1 |
| 4/14/2015 | 15:21:01 | 54.46 | 53.46 | 323 | 3.87 | 0.36 | 17.6 |
| 4/14/2015 | 15:21:02 | 54.79 | 53.79 | 345 | 3.92 | 0.35 | 18.8 |
| 4/14/2015 | 15:21:02 | 55.12 | 54.12 | 376 | 2.21 | 0.33 | 20.6 |
| 4/14/2015 | 15:21:04 | 55.45 | 54.45 | 375 | 3.89 | 0.37 | 20.5 |
| 4/14/2015 | 15:21:06 | 55.77 | 54.77 | 145 | 3.29 | 0.34 | 7.9 |
| 4/14/2015 | 15:21:10 | 56.10 | 55.10 | 119 | 4.88 | 0.37 | 6.5 |
| 4/14/2015 | 15:21:14 | 56.38 | 55.38 | 40 | 3.52 | 0.18 | 2.2 |

## JCB-327-13 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:15:52

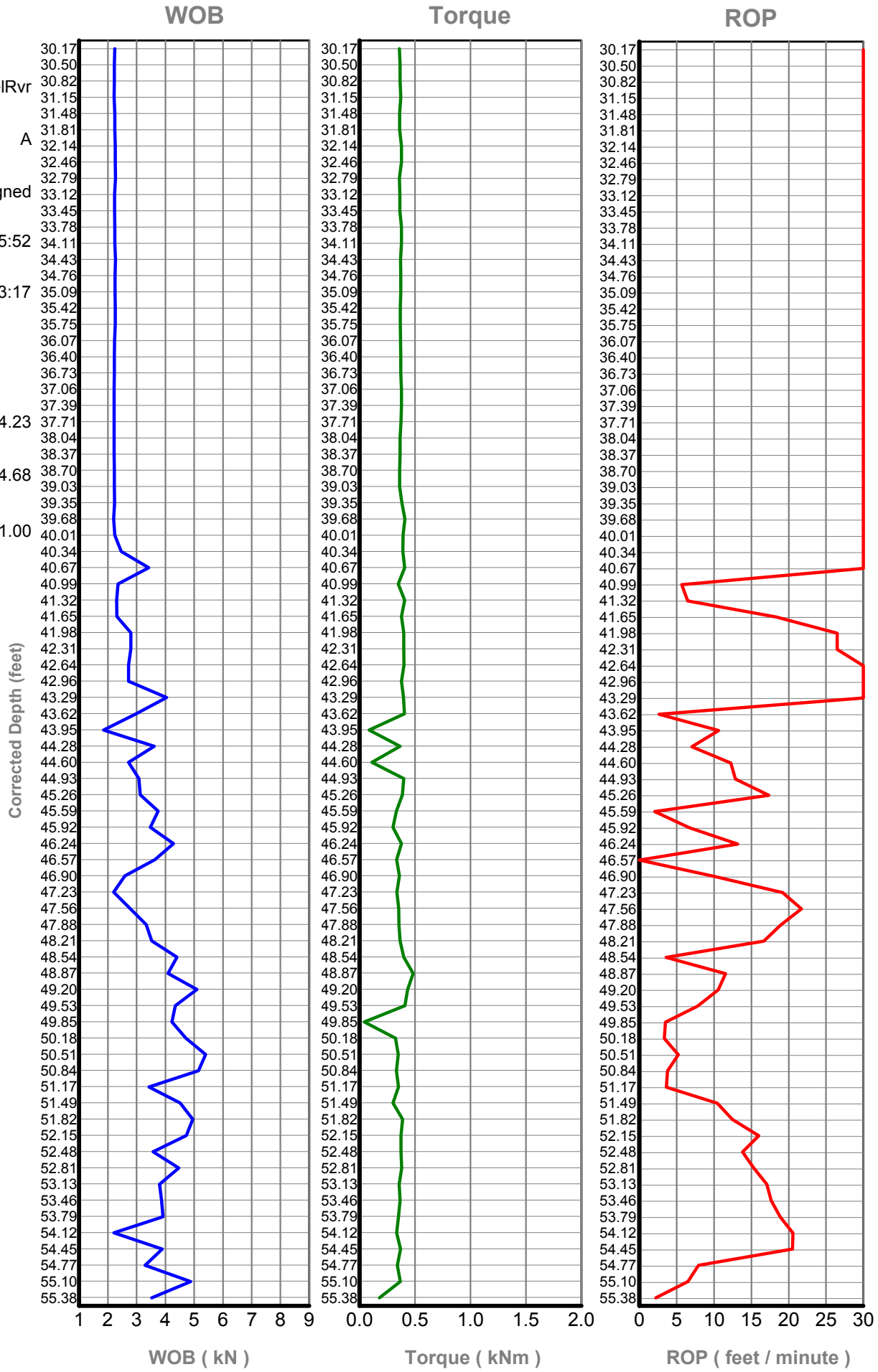
**End Date:**
4/14/2015 15:23:17

**Operator Note:**
'1 1.4 a Auto Complete'

**Northing:**
362,894.23

**Easting:**
246,434.68

**Tide (feet):**
1.00



## Hole: JCB-327-15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:30:04 | 30.84 | 30.04 | 1,039 | 2.23 | 0.35 | 56.8 |
| 4/14/2015 15:30:04 | 31.17 | 30.37 | 1,052 | 2.21 | 0.36 | 57.5 |
| 4/14/2015 15:30:04 | 31.50 | 30.70 | 1,046 | 2.19 | 0.36 | 57.2 |
| 4/14/2015 15:30:05 | 31.82 | 31.02 | 1,046 | 2.19 | 0.36 | 57.2 |
| 4/14/2015 15:30:05 | 32.15 | 31.35 | 1,040 | 2.21 | 0.36 | 56.9 |
| 4/14/2015 15:30:05 | 32.48 | 31.68 | 1,001 | 2.20 | 0.35 | 54.8 |
| 4/14/2015 15:30:06 | 32.81 | 32.01 | 1,001 | 2.20 | 0.35 | 54.8 |
| 4/14/2015 15:30:06 | 33.14 | 32.34 | 1,001 | 2.19 | 0.35 | 54.8 |
| 4/14/2015 15:30:06 | 33.46 | 32.66 | 1,041 | 2.20 | 0.36 | 56.9 |
| 4/14/2015 15:30:07 | 33.79 | 32.99 | 1,041 | 2.20 | 0.36 | 56.9 |
| 4/14/2015 15:30:07 | 34.12 | 33.32 | 1,041 | 2.21 | 0.36 | 56.9 |
| 4/14/2015 15:30:07 | 34.45 | 33.65 | 1,037 | 2.20 | 0.36 | 56.7 |
| 4/14/2015 15:30:08 | 34.78 | 33.98 | 1,037 | 2.20 | 0.36 | 56.7 |
| 4/14/2015 15:30:08 | 35.11 | 34.31 | 1,017 | 2.22 | 0.36 | 55.6 |
| 4/14/2015 15:30:08 | 35.43 | 34.63 | 1,063 | 2.23 | 0.36 | 58.1 |
| 4/14/2015 15:30:09 | 35.76 | 34.96 | 1,063 | 2.23 | 0.36 | 58.1 |
| 4/14/2015 15:30:09 | 36.09 | 35.29 | 1,063 | 2.23 | 0.36 | 58.1 |
| 4/14/2015 15:30:10 | 36.42 | 35.62 | 1,047 | 2.22 | 0.36 | 57.2 |
| 4/14/2015 15:30:10 | 36.75 | 35.95 | 1,047 | 2.22 | 0.36 | 57.2 |
| 4/14/2015 15:30:10 | 37.07 | 36.27 | 1,021 | 2.21 | 0.35 | 55.9 |
| 4/14/2015 15:30:11 | 37.40 | 36.60 | 1,021 | 2.21 | 0.35 | 55.9 |
| 4/14/2015 15:30:11 | 37.73 | 36.93 | 1,021 | 2.21 | 0.35 | 55.9 |
| 4/14/2015 15:30:11 | 38.06 | 37.26 | 1,059 | 2.41 | 0.36 | 57.9 |
| 4/14/2015 15:30:12 | 38.39 | 37.59 | 1,059 | 2.41 | 0.36 | 57.9 |
| 4/14/2015 15:30:12 | 38.71 | 37.91 | 1,026 | 2.21 | 0.35 | 56.1 |
| 4/14/2015 15:30:12 | 39.04 | 38.24 | 1,022 | 2.19 | 0.35 | 55.9 |
| 4/14/2015 15:30:13 | 39.37 | 38.57 | 1,022 | 2.19 | 0.35 | 55.9 |
| 4/14/2015 15:30:13 | 39.70 | 38.90 | 1,022 | 2.18 | 0.35 | 55.9 |
| 4/14/2015 15:30:13 | 40.03 | 39.23 | 1,040 | 2.19 | 0.36 | 56.9 |
| 4/14/2015 15:30:14 | 40.35 | 39.55 | 1,040 | 2.19 | 0.36 | 56.9 |
| 4/14/2015 15:30:14 | 40.68 | 39.88 | 1,062 | 2.17 | 0.36 | 58.1 |
| 4/14/2015 15:30:14 | 41.01 | 40.21 | 1,022 | 2.19 | 0.36 | 55.9 |
| 4/14/2015 15:30:15 | 41.34 | 40.54 | 1,022 | 2.19 | 0.36 | 55.9 |
| 4/14/2015 15:30:15 | 41.67 | 40.87 | 1,022 | 2.21 | 0.44 | 55.9 |
| 4/14/2015 15:30:15 | 41.99 | 41.19 | 1,034 | 2.23 | 0.36 | 56.6 |
| 4/14/2015 15:30:16 | 42.32 | 41.52 | 1,034 | 2.23 | 0.36 | 56.6 |
| 4/14/2015 15:30:16 | 42.65 | 41.85 | 1,034 | 2.22 | 0.35 | 56.5 |
| 4/14/2015 15:30:16 | 42.98 | 42.18 | 1,034 | 2.22 | 0.36 | 56.5 |
| 4/14/2015 15:30:17 | 43.31 | 42.51 | 1,034 | 2.22 | 0.36 | 56.5 |
| 4/14/2015 15:30:17 | 43.64 | 42.84 | 1,027 | 2.29 | 0.36 | 56.2 |
| 4/14/2015 15:30:18 | 43.96 | 43.16 | 841 | 2.31 | 0.43 | 46.0 |
| 4/14/2015 15:30:19 | 44.29 | 43.49 | 593 | 2.12 | 0.13 | 32.4 |
| 4/14/2015 15:30:20 | 44.62 | 43.82 | 226 | 2.38 | 0.39 | 12.4 |
| 4/14/2015 15:30:21 | 44.95 | 44.15 | 331 | 2.57 | 0.48 | 18.1 |
| 4/14/2015 15:30:25 | 45.28 | 44.48 | 119 | 2.89 | 0.39 | 6.5 |
| 4/14/2015 15:30:26 | 45.60 | 44.80 | 173 | 2.39 | 0.41 | 9.4 |
| 4/14/2015 15:30:28 | 45.93 | 45.13 | 160 | 3.35 | 0.35 | 8.7 |
| 4/14/2015 15:30:30 | 46.26 | 45.46 | 183 | 3.67 | 0.35 | 10.0 |
| 4/14/2015 15:30:32 | 46.59 | 45.79 | 188 | 3.88 | 0.36 | 10.3 |
| 4/14/2015 15:30:35 | 46.92 | 46.12 | 161 | 4.43 | 0.42 | 8.8 |
| 4/14/2015 15:30:35 | 47.24 | 46.44 | 178 | 3.22 | 0.32 | 9.8 |
| 4/14/2015 15:30:37 | 47.57 | 46.77 | 234 | 3.66 | 0.35 | 12.8 |
| 4/14/2015 15:30:37 | 47.90 | 47.10 | 309 | 3.28 | 0.35 | 16.9 |
| 4/14/2015 15:30:38 | 48.23 | 47.43 | 385 | 2.38 | 0.34 | 21.0 |
| 4/14/2015 15:30:39 | 48.56 | 47.76 | 427 | 4.54 | 0.35 | 23.4 |
| 4/14/2015 15:30:41 | 48.88 | 48.08 | 397 | 3.37 | 0.33 | 21.7 |
| 4/14/2015 15:30:42 | 49.21 | 48.41 | 325 | 3.62 | 0.37 | 17.8 |
| 4/14/2015 15:30:43 | 49.54 | 48.74 | 307 | 3.71 | 0.34 | 16.8 |
| 4/14/2015 15:30:44 | 49.87 | 49.07 | 312 | 3.99 | 0.36 | 17.0 |
| 4/14/2015 15:30:45 | 50.20 | 49.40 | 322 | 3.62 | 0.32 | 17.6 |
| 4/14/2015 15:30:47 | 50.53 | 49.73 | 259 | 5.82 | 0.32 | 14.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:30:48 | 50.85 | 50.05 | 230 | 3.75 | 0.34 | 12.6 |
| 4/14/2015 | 15:30:50 | 51.18 | 50.38 | 224 | 3.88 | 0.36 | 12.2 |
| 4/14/2015 | 15:30:51 | 51.51 | 50.71 | 246 | 3.62 | 0.37 | 13.5 |
| 4/14/2015 | 15:30:53 | 51.84 | 51.04 | 252 | 4.22 | 0.33 | 13.8 |
| 4/14/2015 | 15:30:54 | 52.17 | 51.37 | 233 | 4.62 | 0.36 | 12.7 |
| 4/14/2015 | 15:30:56 | 52.49 | 51.69 | 207 | 4.02 | 0.37 | 11.3 |
| 4/14/2015 | 15:30:58 | 52.82 | 52.02 | 220 | 4.30 | 0.37 | 12.0 |
| 4/14/2015 | 15:30:59 | 53.15 | 52.35 | 217 | 5.36 | 0.32 | 11.8 |
| 4/14/2015 | 15:31:01 | 53.48 | 52.68 | 217 | 3.88 | 0.35 | 11.9 |
| 4/14/2015 | 15:31:03 | 53.81 | 53.01 | 201 | 5.20 | 0.36 | 11.0 |
| 4/14/2015 | 15:31:05 | 54.13 | 53.33 | 179 | 2.49 | 0.40 | 9.8 |
| 4/14/2015 | 15:31:07 | 54.46 | 53.66 | 190 | 3.01 | 0.38 | 10.4 |
| 4/14/2015 | 15:31:08 | 54.79 | 53.99 | 218 | 2.36 | 0.34 | 11.9 |
| 4/14/2015 | 15:31:10 | 55.12 | 54.32 | 232 | 2.05 | 0.37 | 12.7 |
| 4/14/2015 | 15:31:11 | 55.45 | 54.65 | 221 | 3.61 | 0.35 | 12.1 |
| 4/14/2015 | 15:31:13 | 55.77 | 54.97 | 226 | 2.17 | 0.38 | 12.4 |
| 4/14/2015 | 15:31:15 | 56.10 | 55.30 | 198 | 4.02 | 0.39 | 10.9 |
| 4/14/2015 | 15:31:18 | 56.29 | 55.49 | 71 | 3.45 | 0.20 | 3.9 |

## JCB-327-15 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:27:17

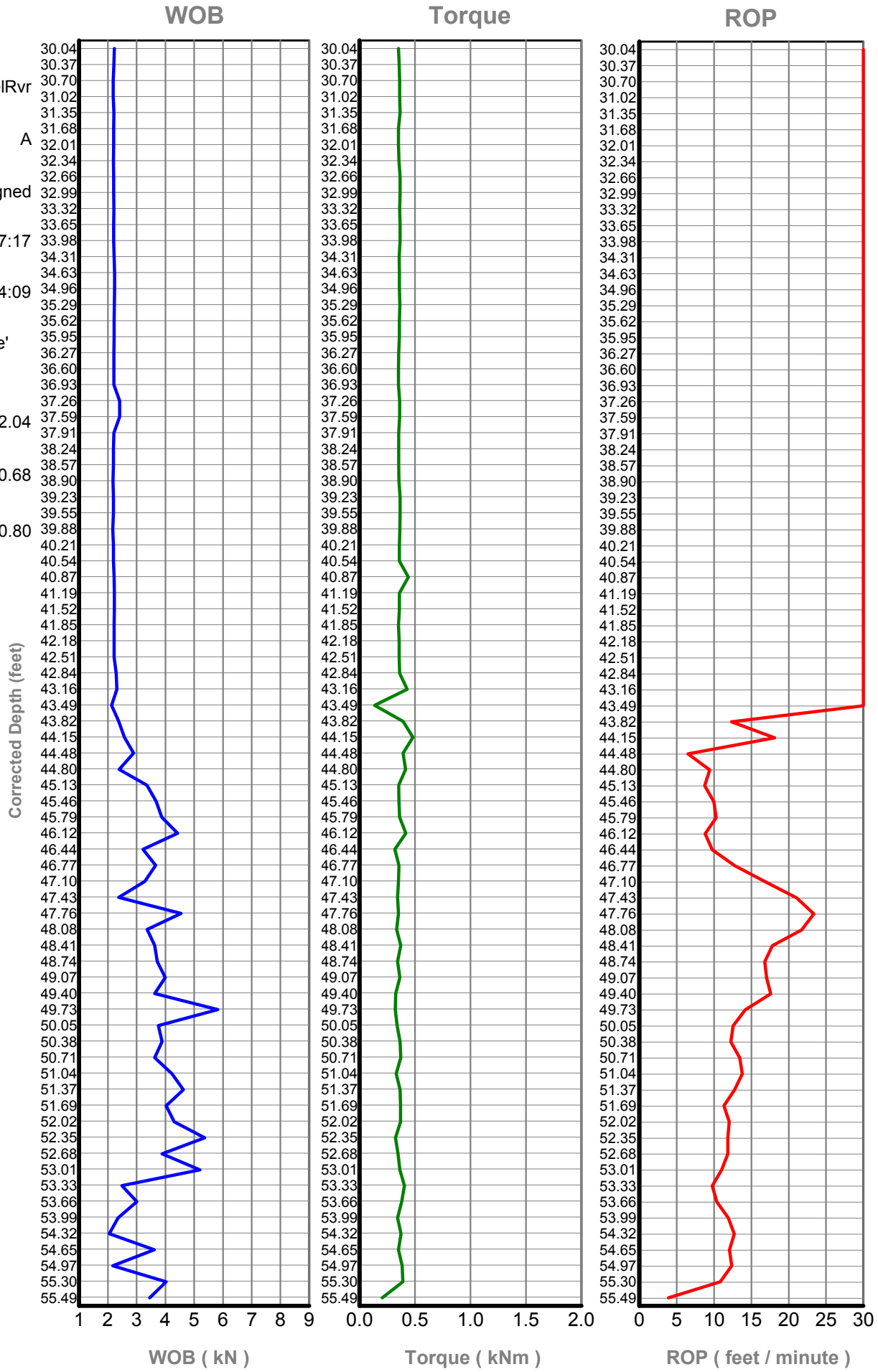
**End Date:**
4/14/2015 15:34:09

**Operator Note:**
'0.8 1.3 a Auto Complete'

**Northing:**
362,892.04

**Easting:**
246,430.68

**Tide (feet):**
0.80



## Hole: JCB-327-17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 15:37:19 | 30.84 | 30.14 | 1,238 | 2.63 | 0.36 | 67.7 |
| 4/14/2015 15:37:19 | 31.17 | 30.47 | 1,254 | 2.64 | 0.36 | 68.6 |
| 4/14/2015 15:37:20 | 31.50 | 30.80 | 1,254 | 2.64 | 0.36 | 68.6 |
| 4/14/2015 15:37:20 | 31.82 | 31.12 | 1,243 | 2.65 | 0.34 | 68.0 |
| 4/14/2015 15:37:20 | 32.15 | 31.45 | 1,243 | 2.65 | 0.34 | 68.0 |
| 4/14/2015 15:37:20 | 32.48 | 31.78 | 1,237 | 2.67 | 0.34 | 67.6 |
| 4/14/2015 15:37:21 | 32.81 | 32.11 | 1,231 | 2.66 | 0.35 | 67.3 |
| 4/14/2015 15:37:21 | 33.14 | 32.44 | 1,231 | 2.66 | 0.35 | 67.3 |
| 4/14/2015 15:37:21 | 33.46 | 32.76 | 1,236 | 2.63 | 0.34 | 67.6 |
| 4/14/2015 15:37:22 | 33.79 | 33.09 | 1,236 | 2.63 | 0.34 | 67.6 |
| 4/14/2015 15:37:22 | 34.12 | 33.42 | 1,229 | 2.64 | 0.35 | 67.2 |
| 4/14/2015 15:37:22 | 34.45 | 33.75 | 1,229 | 2.64 | 0.35 | 67.2 |
| 4/14/2015 15:37:22 | 34.78 | 34.08 | 1,231 | 2.66 | 0.34 | 67.3 |
| 4/14/2015 15:37:23 | 35.11 | 34.41 | 1,231 | 2.66 | 0.34 | 67.3 |
| 4/14/2015 15:37:23 | 35.43 | 34.73 | 1,230 | 2.68 | 0.35 | 67.2 |
| 4/14/2015 15:37:23 | 35.76 | 35.06 | 1,234 | 2.66 | 0.35 | 67.5 |
| 4/14/2015 15:37:24 | 36.09 | 35.39 | 1,234 | 2.66 | 0.35 | 67.5 |
| 4/14/2015 15:37:24 | 36.42 | 35.72 | 1,212 | 2.65 | 0.36 | 66.3 |
| 4/14/2015 15:37:24 | 36.75 | 36.05 | 1,212 | 2.65 | 0.36 | 66.3 |
| 4/14/2015 15:37:24 | 37.07 | 36.37 | 1,202 | 2.65 | 0.35 | 65.7 |
| 4/14/2015 15:37:25 | 37.40 | 36.70 | 1,191 | 2.68 | 0.35 | 65.1 |
| 4/14/2015 15:37:26 | 37.73 | 37.03 | 1,191 | 2.68 | 0.35 | 65.1 |
| 4/14/2015 15:37:25 | 38.06 | 37.36 | 1,160 | 2.66 | 0.35 | 63.5 |
| 4/14/2015 15:37:26 | 38.39 | 37.69 | 1,160 | 2.66 | 0.35 | 63.5 |
| 4/14/2015 15:37:26 | 38.71 | 38.01 | 1,160 | 2.67 | 0.35 | 63.5 |
| 4/14/2015 15:37:26 | 39.04 | 38.34 | 1,160 | 2.67 | 0.35 | 63.5 |
| 4/14/2015 15:37:26 | 39.37 | 38.67 | 1,158 | 2.65 | 0.36 | 63.3 |
| 4/14/2015 15:37:27 | 39.70 | 39.00 | 1,132 | 2.65 | 0.35 | 61.9 |
| 4/14/2015 15:37:28 | 40.03 | 39.33 | 1,088 | 2.67 | 0.36 | 59.5 |
| 4/14/2015 15:37:28 | 40.35 | 39.65 | 1,088 | 2.67 | 0.36 | 59.5 |
| 4/14/2015 15:37:28 | 40.68 | 39.98 | 1,051 | 2.65 | 0.36 | 57.5 |
| 4/14/2015 15:37:29 | 41.01 | 40.31 | 1,030 | 2.67 | 0.35 | 56.3 |
| 4/14/2015 15:37:29 | 41.34 | 40.64 | 1,030 | 2.67 | 0.35 | 56.3 |
| 4/14/2015 15:37:30 | 41.67 | 40.97 | 807 | 2.67 | 0.34 | 44.1 |
| 4/14/2015 15:37:30 | 41.99 | 41.29 | 781 | 2.67 | 0.36 | 42.7 |
| 4/14/2015 15:37:31 | 42.32 | 41.62 | 755 | 2.73 | 0.37 | 41.3 |
| 4/14/2015 15:37:31 | 42.65 | 41.95 | 755 | 2.73 | 0.37 | 41.3 |
| 4/14/2015 15:37:32 | 42.98 | 42.28 | 626 | 3.24 | 0.46 | 34.2 |
| 4/14/2015 15:37:33 | 43.31 | 42.61 | 567 | 2.84 | 0.44 | 31.0 |
| 4/14/2015 15:37:34 | 43.64 | 42.94 | 336 | 2.77 | 0.42 | 18.4 |
| 4/14/2015 15:37:35 | 43.96 | 43.26 | 334 | 2.82 | 0.42 | 18.3 |
| 4/14/2015 15:37:36 | 44.29 | 43.59 | 375 | 2.92 | 0.43 | 20.5 |
| 4/14/2015 15:37:39 | 44.62 | 43.92 | 86 | 3.86 | 0.42 | 4.7 |
| 4/14/2015 15:37:42 | 44.95 | 44.25 | 103 | 3.37 | 0.37 | 5.6 |
| 4/14/2015 15:37:46 | 45.28 | 44.58 | 62 | 3.07 | 0.17 | 3.4 |
| 4/14/2015 15:37:50 | 45.60 | 44.90 | 26 | 2.92 | 0.35 | 1.4 |
| 4/14/2015 15:37:51 | 45.93 | 45.23 | 81 | 3.22 | 0.33 | 4.4 |
| 4/14/2015 15:37:53 | 46.26 | 45.56 | 285 | 3.85 | 0.36 | 15.6 |
| 4/14/2015 15:37:54 | 46.59 | 45.89 | 183 | 3.34 | 0.34 | 10.0 |
| 4/14/2015 15:37:56 | 46.92 | 46.22 | 175 | 2.80 | 0.36 | 9.5 |
| 4/14/2015 15:38:01 | 47.24 | 46.54 | 86 | 4.16 | 0.40 | 4.7 |
| 4/14/2015 15:38:05 | 47.57 | 46.87 | 85 | 2.00 | 0.38 | 4.7 |
| 4/14/2015 15:38:10 | 47.90 | 47.20 | 70 | 2.10 | 0.39 | 3.8 |
| 4/14/2015 15:38:14 | 48.23 | 47.53 | 77 | 1.97 | 0.37 | 4.2 |
| 4/14/2015 15:38:19 | 48.56 | 47.86 | 75 | 2.00 | 0.37 | 4.1 |
| 4/14/2015 15:38:21 | 48.88 | 48.18 | 131 | 4.28 | 0.35 | 7.2 |
| 4/14/2015 15:38:23 | 49.21 | 48.51 | 182 | 3.04 | 0.36 | 9.9 |
| 4/14/2015 15:38:24 | 49.54 | 48.84 | 241 | 2.71 | 0.36 | 13.2 |
| 4/14/2015 15:38:26 | 49.87 | 49.17 | 243 | 3.64 | 0.32 | 13.3 |
| 4/14/2015 15:38:27 | 50.20 | 49.50 | 237 | 4.39 | 0.32 | 12.9 |
| 4/14/2015 15:38:28 | 50.53 | 49.83 | 255 | 3.48 | 0.29 | 13.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 15:38:29 | 50.85 | 50.15 | 315 | 3.97 | 0.33 | 17.2 |
| 4/14/2015 | 15:38:31 | 51.18 | 50.48 | 338 | 3.50 | 0.32 | 18.5 |
| 4/14/2015 | 15:38:32 | 51.51 | 50.81 | 229 | 3.09 | 0.38 | 12.5 |
| 4/14/2015 | 15:38:34 | 51.84 | 51.14 | 180 | 3.26 | 0.37 | 9.8 |
| 4/14/2015 | 15:38:36 | 52.17 | 51.47 | 212 | 4.03 | 0.33 | 11.6 |
| 4/14/2015 | 15:38:37 | 52.49 | 51.79 | 217 | 4.20 | 0.33 | 11.9 |
| 4/14/2015 | 15:38:39 | 52.82 | 52.12 | 240 | 3.90 | 0.35 | 13.1 |
| 4/14/2015 | 15:38:42 | 53.15 | 52.45 | 145 | 4.22 | 0.32 | 7.9 |
| 4/14/2015 | 15:38:43 | 53.48 | 52.78 | 180 | 2.79 | 0.38 | 9.9 |
| 4/14/2015 | 15:38:45 | 53.81 | 53.11 | 191 | 3.69 | 0.35 | 10.4 |
| 4/14/2015 | 15:38:47 | 54.13 | 53.43 | 191 | 3.37 | 0.37 | 10.4 |
| 4/14/2015 | 15:38:49 | 54.46 | 53.76 | 191 | 3.48 | 0.38 | 10.4 |
| 4/14/2015 | 15:38:51 | 54.79 | 54.09 | 198 | 3.42 | 0.32 | 10.8 |
| 4/14/2015 | 15:38:53 | 55.12 | 54.42 | 212 | 3.15 | 0.36 | 11.6 |
| 4/14/2015 | 15:38:54 | 55.45 | 54.75 | 231 | 2.12 | 0.36 | 12.6 |
| 4/14/2015 | 15:38:55 | 55.77 | 55.07 | 262 | 3.96 | 0.35 | 14.3 |
| 4/14/2015 | 15:38:59 | 56.10 | 55.40 | 92 | 3.09 | 0.34 | 5.0 |
| 4/14/2015 | 15:38:59 | 56.16 | 55.46 | 92 | 3.09 | 0.34 | 5.0 |

## JCB-327-17 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 15:35:25

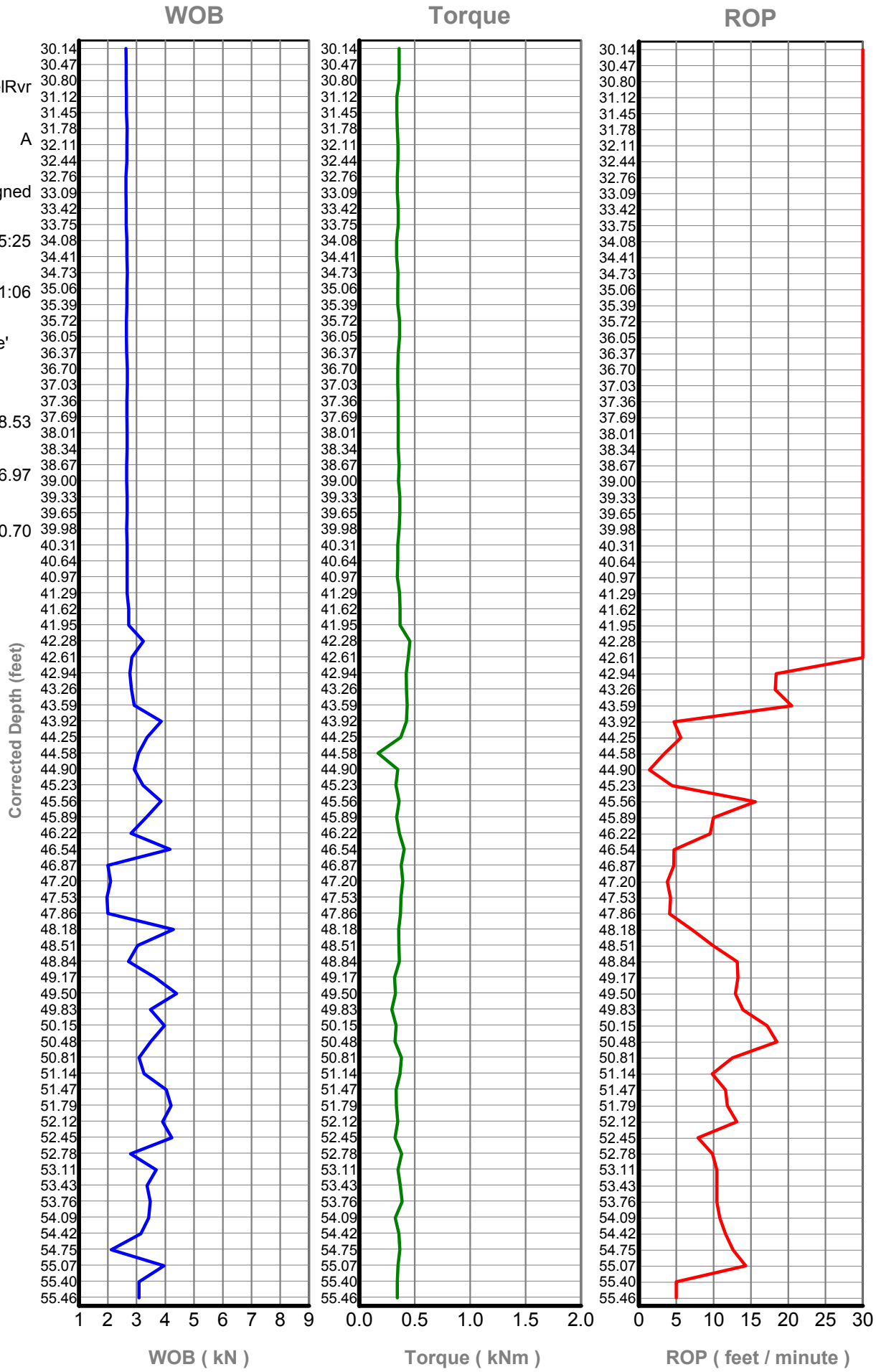
**End Date:**
4/14/2015 15:41:06

**Operator Note:**
'0.7 1.2 a Auto Complete'

**Northing:**
362,888.53

**Easting:**
246,426.97

**Tide (feet):**
0.70



## Hole: JCB-327-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 16:50:51 | 30.51 | 30.31 | 911 | 0.31 | 0.37 | 49.8 |
| 4/15/2015 16:50:52 | 30.84 | 30.64 | 913 | 0.30 | 0.37 | 50.0 |
| 4/15/2015 16:50:52 | 31.17 | 30.97 | 913 | 0.30 | 0.37 | 50.0 |
| 4/15/2015 16:50:53 | 31.50 | 31.30 | 908 | 0.31 | 0.37 | 49.6 |
| 4/15/2015 16:50:53 | 31.82 | 31.62 | 908 | 0.31 | 0.37 | 49.6 |
| 4/15/2015 16:50:53 | 32.15 | 31.95 | 905 | 0.30 | 0.37 | 49.5 |
| 4/15/2015 16:50:54 | 32.48 | 32.28 | 908 | 0.31 | 0.37 | 49.6 |
| 4/15/2015 16:50:54 | 32.81 | 32.61 | 908 | 0.30 | 0.37 | 49.6 |
| 4/15/2015 16:50:55 | 33.14 | 32.94 | 908 | 0.30 | 0.37 | 49.6 |
| 4/15/2015 16:50:55 | 33.46 | 33.26 | 905 | 0.30 | 0.37 | 49.5 |
| 4/15/2015 16:50:55 | 33.79 | 33.59 | 903 | 0.30 | 0.37 | 49.4 |
| 4/15/2015 16:50:56 | 34.12 | 33.92 | 908 | 0.35 | 0.37 | 49.6 |
| 4/15/2015 16:50:56 | 34.45 | 34.25 | 908 | 0.35 | 0.37 | 49.6 |
| 4/15/2015 16:50:56 | 34.78 | 34.58 | 899 | 0.31 | 0.37 | 49.2 |
| 4/15/2015 16:50:57 | 35.11 | 34.91 | 893 | 0.30 | 0.37 | 48.8 |
| 4/15/2015 16:50:57 | 35.43 | 35.23 | 888 | 0.30 | 0.37 | 48.5 |
| 4/15/2015 16:50:58 | 35.76 | 35.56 | 888 | 0.30 | 0.37 | 48.5 |
| 4/15/2015 16:50:58 | 36.09 | 35.89 | 885 | 0.31 | 0.35 | 48.4 |
| 4/15/2015 16:50:58 | 36.42 | 36.22 | 882 | 0.30 | 0.37 | 48.2 |
| 4/15/2015 16:50:59 | 36.75 | 36.55 | 879 | 0.30 | 0.37 | 48.1 |
| 4/15/2015 16:51:00 | 37.07 | 36.87 | 868 | 0.30 | 0.37 | 47.4 |
| 4/15/2015 16:51:00 | 37.40 | 37.20 | 868 | 0.30 | 0.37 | 47.4 |
| 4/15/2015 16:51:00 | 37.73 | 37.53 | 870 | 0.30 | 0.37 | 47.6 |
| 4/15/2015 16:51:01 | 38.06 | 37.86 | 870 | 0.31 | 0.37 | 47.6 |
| 4/15/2015 16:51:01 | 38.39 | 38.19 | 876 | 0.31 | 0.37 | 47.9 |
| 4/15/2015 16:51:02 | 38.71 | 38.51 | 874 | 0.30 | 0.37 | 47.8 |
| 4/15/2015 16:51:02 | 39.04 | 38.84 | 874 | 0.30 | 0.37 | 47.8 |
| 4/15/2015 16:51:02 | 39.37 | 39.17 | 879 | 0.30 | 0.37 | 48.1 |
| 4/15/2015 16:51:03 | 39.70 | 39.50 | 876 | 0.30 | 0.37 | 47.9 |
| 4/15/2015 16:51:03 | 40.03 | 39.83 | 870 | 0.30 | 0.37 | 47.6 |
| 4/15/2015 16:51:04 | 40.35 | 40.15 | 870 | 0.30 | 0.37 | 47.6 |
| 4/15/2015 16:51:04 | 40.68 | 40.48 | 857 | 0.30 | 0.37 | 46.9 |
| 4/15/2015 16:51:04 | 41.01 | 40.81 | 876 | 0.30 | 0.37 | 47.9 |
| 4/15/2015 16:51:05 | 41.34 | 41.14 | 841 | 0.30 | 0.38 | 46.0 |
| 4/15/2015 16:51:05 | 41.67 | 41.47 | 841 | 1.37 | 0.38 | 46.0 |
| 4/15/2015 16:51:06 | 41.99 | 41.79 | 841 | 1.37 | 0.38 | 46.0 |
| 4/15/2015 16:51:06 | 42.32 | 42.12 | 841 | 2.40 | 0.37 | 46.0 |
| 4/15/2015 16:51:06 | 42.65 | 42.45 | 847 | 2.18 | 0.36 | 46.3 |
| 4/15/2015 16:51:07 | 42.98 | 42.78 | 847 | 2.17 | 0.37 | 46.3 |
| 4/15/2015 16:51:07 | 43.31 | 43.11 | 855 | 3.60 | 0.44 | 46.7 |
| 4/15/2015 16:51:12 | 43.64 | 43.44 | 82 | 5.57 | 0.43 | 4.5 |
| 4/15/2015 16:51:14 | 43.96 | 43.76 | 71 | 2.73 | 0.40 | 3.9 |
| 4/15/2015 16:51:16 | 44.29 | 44.09 | 186 | 4.06 | 0.44 | 10.2 |
| 4/15/2015 16:51:17 | 44.62 | 44.42 | 228 | 3.43 | 0.42 | 12.5 |
| 4/15/2015 16:51:23 | 44.95 | 44.75 | 46 | 3.07 | 0.44 | 2.5 |
| 4/15/2015 16:51:25 | 45.28 | 45.08 | 182 | 3.37 | 0.41 | 10.0 |
| 4/15/2015 16:51:26 | 45.60 | 45.40 | 242 | 2.81 | 0.44 | 13.2 |
| 4/15/2015 16:51:28 | 45.93 | 45.73 | 171 | 3.22 | 0.42 | 9.3 |
| 4/15/2015 16:51:29 | 46.26 | 46.06 | 204 | 4.79 | 0.46 | 11.1 |
| 4/15/2015 16:51:31 | 46.59 | 46.39 | 267 | 3.77 | 0.41 | 14.6 |
| 4/15/2015 16:51:39 | 46.92 | 46.72 | 32 | 3.28 | 0.42 | 1.8 |
| 4/15/2015 16:51:41 | 47.24 | 47.04 | 166 | 2.78 | 0.40 | 9.1 |
| 4/15/2015 16:51:42 | 47.57 | 47.37 | 232 | 2.55 | 0.40 | 12.7 |
| 4/15/2015 16:53:26 | 47.90 | 47.70 | 27 | 2.90 | 0.41 | 1.5 |
| 4/15/2015 16:53:27 | 48.23 | 48.03 | 158 | 3.28 | 0.43 | 8.6 |
| 4/15/2015 16:53:29 | 48.56 | 48.36 | 247 | 3.52 | 0.43 | 13.5 |
| 4/15/2015 16:53:30 | 48.88 | 48.68 | 217 | 3.09 | 0.42 | 11.9 |
| 4/15/2015 16:53:31 | 49.21 | 49.01 | 248 | 2.93 | 0.41 | 13.6 |
| 4/15/2015 16:53:33 | 49.54 | 49.34 | 282 | 2.86 | 0.44 | 15.4 |
| 4/15/2015 16:53:40 | 49.87 | 49.67 | 0 | 2.63 | 0.39 | 0.0 |
| 4/15/2015 16:53:42 | 50.20 | 50.00 | 174 | 2.84 | 0.40 | 9.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 16:53:43 | 50.53 | 50.33 | 269 | 4.66 | 0.40 | 14.7 |
| 4/15/2015 | 16:53:44 | 50.85 | 50.65 | 295 | 3.14 | 0.40 | 16.1 |
| 4/15/2015 | 16:53:46 | 51.18 | 50.98 | 258 | 3.68 | 0.43 | 14.1 |
| 4/15/2015 | 16:53:50 | 51.51 | 51.31 | 43 | 2.74 | 0.40 | 2.3 |
| 4/15/2015 | 16:53:52 | 51.84 | 51.64 | 184 | 3.01 | 0.44 | 10.1 |
| 4/15/2015 | 16:53:53 | 52.17 | 51.97 | 255 | 2.75 | 0.40 | 13.9 |
| 4/15/2015 | 16:53:54 | 52.49 | 52.29 | 301 | 3.57 | 0.40 | 16.4 |
| 4/15/2015 | 16:53:55 | 52.82 | 52.62 | 298 | 4.69 | 0.42 | 16.3 |
| 4/15/2015 | 16:53:57 | 53.15 | 52.95 | 275 | 2.94 | 0.43 | 15.0 |
| 4/15/2015 | 16:53:59 | 53.48 | 53.28 | 251 | 2.69 | 0.41 | 13.7 |
| 4/15/2015 | 16:54:32 | 53.81 | 53.61 | 63 | 3.12 | 0.42 | 3.4 |
| 4/15/2015 | 16:54:33 | 54.13 | 53.93 | 116 | 2.95 | 0.41 | 6.3 |
| 4/15/2015 | 16:54:34 | 54.46 | 54.26 | 256 | 2.33 | 0.40 | 14.0 |
| 4/15/2015 | 16:54:36 | 54.79 | 54.59 | 254 | 3.26 | 0.44 | 13.9 |
| 4/15/2015 | 16:54:47 | 55.12 | 54.92 | 11 | 2.71 | 0.41 | 0.6 |
| 4/15/2015 | 16:54:49 | 55.18 | 54.98 | 43 | 2.89 | 0.44 | 2.4 |

## JCB-327-2 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 16:44:21

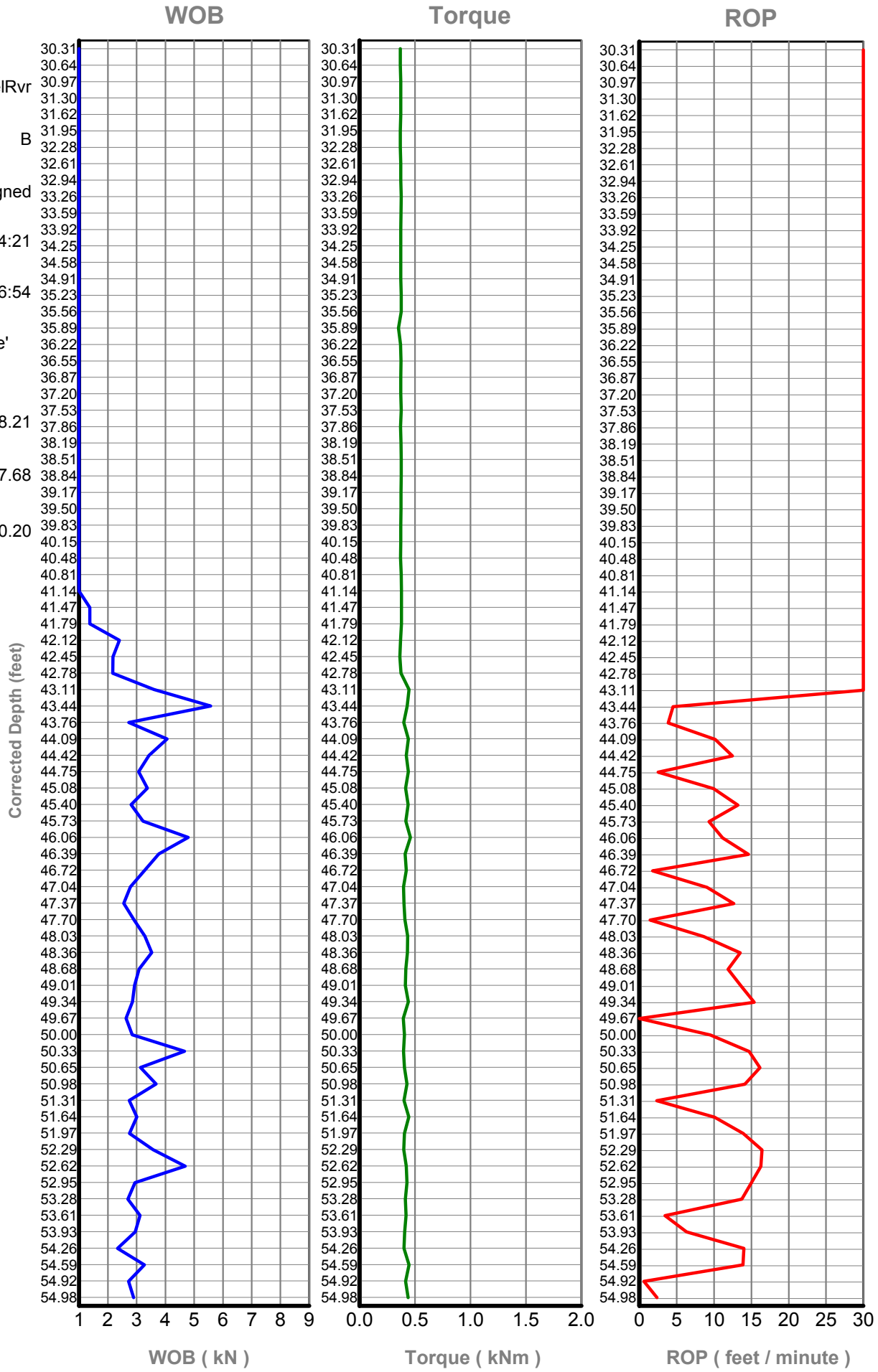
**End Date:**
4/15/2015 16:56:54

**Operator Note:**
'0.2 0.2 b Auto Complete'

**Northing:**
362,918.21

**Easting:**
246,427.68

**Tide (feet):**
0.20



## Hole: JCB-327-3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:14:54 | 31.50 | 30.10 | 995 | 0.28 | 0.36 | 54.4 |
| 4/15/2015 15:14:54 | 31.82 | 30.42 | 989 | 0.27 | 0.36 | 54.1 |
| 4/15/2015 15:14:54 | 32.15 | 30.75 | 986 | 0.27 | 0.36 | 53.9 |
| 4/15/2015 15:14:55 | 32.48 | 31.08 | 986 | 0.27 | 0.36 | 53.9 |
| 4/15/2015 15:14:55 | 32.81 | 31.41 | 986 | 0.27 | 0.36 | 53.9 |
| 4/15/2015 15:14:55 | 33.14 | 31.74 | 974 | 0.27 | 0.37 | 53.3 |
| 4/15/2015 15:14:56 | 33.46 | 32.06 | 972 | 0.27 | 0.37 | 53.1 |
| 4/15/2015 15:14:56 | 33.79 | 32.39 | 972 | 0.27 | 0.37 | 53.1 |
| 4/15/2015 15:14:56 | 34.12 | 32.72 | 972 | 0.28 | 0.36 | 53.1 |
| 4/15/2015 15:14:57 | 34.45 | 33.05 | 972 | 0.27 | 0.36 | 53.1 |
| 4/15/2015 15:14:57 | 34.78 | 33.38 | 972 | 0.27 | 0.36 | 53.1 |
| 4/15/2015 15:14:57 | 35.11 | 33.71 | 957 | 0.27 | 0.37 | 52.3 |
| 4/15/2015 15:14:58 | 35.43 | 34.03 | 957 | 0.27 | 0.36 | 52.3 |
| 4/15/2015 15:14:58 | 35.76 | 34.36 | 959 | 0.27 | 0.37 | 52.5 |
| 4/15/2015 15:14:59 | 36.09 | 34.69 | 959 | 0.27 | 0.37 | 52.5 |
| 4/15/2015 15:14:59 | 36.42 | 35.02 | 963 | 0.26 | 0.37 | 52.6 |
| 4/15/2015 15:15:00 | 36.75 | 35.35 | 943 | 0.27 | 0.37 | 51.6 |
| 4/15/2015 15:15:00 | 37.07 | 35.67 | 946 | 0.27 | 0.37 | 51.7 |
| 4/15/2015 15:15:01 | 37.40 | 36.00 | 946 | 0.27 | 0.37 | 51.7 |
| 4/15/2015 15:15:01 | 37.73 | 36.33 | 931 | 0.28 | 0.36 | 50.9 |
| 4/15/2015 15:15:01 | 38.06 | 36.66 | 940 | 0.27 | 0.37 | 51.4 |
| 4/15/2015 15:15:02 | 38.39 | 36.99 | 940 | 0.27 | 0.37 | 51.4 |
| 4/15/2015 15:15:02 | 38.71 | 37.31 | 934 | 0.27 | 0.37 | 51.1 |
| 4/15/2015 15:15:02 | 39.04 | 37.64 | 934 | 0.27 | 0.37 | 51.1 |
| 4/15/2015 15:15:03 | 39.37 | 37.97 | 928 | 0.27 | 0.37 | 50.8 |
| 4/15/2015 15:15:03 | 39.70 | 38.30 | 928 | 0.27 | 0.37 | 50.8 |
| 4/15/2015 15:15:03 | 40.03 | 38.63 | 945 | 0.27 | 0.36 | 51.7 |
| 4/15/2015 15:15:04 | 40.35 | 38.95 | 940 | 0.27 | 0.37 | 51.4 |
| 4/15/2015 15:15:04 | 40.68 | 39.28 | 931 | 0.27 | 0.37 | 50.9 |
| 4/15/2015 15:15:05 | 41.01 | 39.61 | 931 | 0.27 | 0.37 | 50.9 |
| 4/15/2015 15:15:05 | 41.34 | 39.94 | 930 | 0.26 | 0.37 | 50.9 |
| 4/15/2015 15:15:05 | 41.67 | 40.27 | 911 | 1.99 | 0.37 | 49.8 |
| 4/15/2015 15:15:06 | 41.99 | 40.59 | 893 | 3.84 | 0.39 | 48.9 |
| 4/15/2015 15:15:06 | 42.32 | 40.92 | 858 | 5.74 | 0.41 | 46.9 |
| 4/15/2015 15:15:07 | 42.65 | 41.25 | 810 | 1.67 | 0.37 | 44.3 |
| 4/15/2015 15:15:07 | 42.98 | 41.58 | 810 | 1.67 | 0.37 | 44.3 |
| 4/15/2015 15:15:07 | 43.31 | 41.91 | 815 | 2.10 | 0.37 | 44.6 |
| 4/15/2015 15:15:08 | 43.64 | 42.24 | 798 | 3.08 | 0.39 | 43.7 |
| 4/15/2015 15:15:09 | 43.96 | 42.56 | 708 | 3.33 | 0.43 | 38.7 |
| 4/15/2015 15:15:13 | 44.29 | 42.89 | 96 | 2.89 | 0.43 | 5.2 |
| 4/15/2015 15:15:16 | 44.62 | 43.22 | 104 | 2.35 | 0.44 | 5.7 |
| 4/15/2015 15:15:17 | 44.95 | 43.55 | 204 | 3.07 | 0.43 | 11.2 |
| 4/15/2015 15:15:18 | 45.28 | 43.88 | 292 | 2.84 | 0.41 | 15.9 |
| 4/15/2015 15:15:19 | 45.60 | 44.20 | 370 | 2.67 | 0.42 | 20.2 |
| 4/15/2015 15:15:19 | 45.93 | 44.53 | 407 | 3.01 | 0.43 | 22.2 |
| 4/15/2015 15:15:21 | 46.26 | 44.86 | 434 | 2.73 | 0.42 | 23.7 |
| 4/15/2015 15:15:26 | 46.59 | 45.19 | 81 | 2.84 | 0.45 | 4.4 |
| 4/15/2015 15:15:34 | 46.92 | 45.52 | 62 | 2.61 | 0.44 | 3.4 |
| 4/15/2015 15:15:36 | 47.24 | 45.84 | 181 | 3.00 | 0.42 | 9.9 |
| 4/15/2015 15:15:37 | 47.57 | 46.17 | 273 | 3.66 | 0.41 | 14.9 |
| 4/15/2015 15:15:37 | 47.90 | 46.50 | 322 | 3.76 | 0.41 | 17.6 |
| 4/15/2015 15:15:42 | 48.23 | 46.83 | 43 | 2.51 | 0.38 | 2.3 |
| 4/15/2015 15:15:43 | 48.56 | 47.16 | 240 | 2.15 | 0.41 | 13.1 |
| 4/15/2015 15:15:43 | 48.88 | 47.48 | 322 | 2.03 | 0.43 | 17.6 |
| 4/15/2015 15:15:44 | 49.21 | 47.81 | 454 | 2.15 | 0.42 | 24.8 |
| 4/15/2015 15:15:45 | 49.54 | 48.14 | 440 | 2.42 | 0.40 | 24.0 |
| 4/15/2015 15:15:46 | 49.87 | 48.47 | 442 | 4.01 | 0.42 | 24.2 |
| 4/15/2015 15:15:50 | 50.20 | 48.80 | 29 | 3.53 | 0.40 | 1.6 |
| 4/15/2015 15:15:51 | 50.53 | 49.13 | 109 | 3.03 | 0.44 | 5.9 |
| 4/15/2015 15:16:10 | 50.85 | 49.45 | 57 | 3.24 | 0.42 | 3.1 |
| 4/15/2015 15:16:12 | 51.18 | 49.78 | 201 | 2.87 | 0.44 | 11.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 15:16:13 | 51.51 | 50.11 | 231 | 2.99 | 0.41 | 12.6 |
| 4/15/2015 | 15:16:15 | 51.84 | 50.44 | 263 | 3.24 | 0.42 | 14.4 |
| 4/15/2015 | 15:16:16 | 52.17 | 50.77 | 254 | 3.62 | 0.43 | 13.9 |
| 4/15/2015 | 15:16:18 | 52.49 | 51.09 | 237 | 2.82 | 0.41 | 13.0 |
| 4/15/2015 | 15:16:19 | 52.82 | 51.42 | 241 | 2.74 | 0.43 | 13.2 |
| 4/15/2015 | 15:16:20 | 53.15 | 51.75 | 243 | 3.19 | 0.44 | 13.3 |
| 4/15/2015 | 15:17:10 | 53.48 | 52.08 | 84 | 3.03 | 0.41 | 4.6 |
| 4/15/2015 | 15:17:12 | 53.81 | 52.41 | 246 | 4.04 | 0.41 | 13.4 |
| 4/15/2015 | 15:17:13 | 54.13 | 52.73 | 260 | 2.45 | 0.42 | 14.2 |
| 4/15/2015 | 15:17:15 | 54.46 | 53.06 | 283 | 2.57 | 0.42 | 15.5 |
| 4/15/2015 | 15:17:16 | 54.79 | 53.39 | 289 | 2.73 | 0.41 | 15.8 |
| 4/15/2015 | 15:17:17 | 55.12 | 53.72 | 287 | 2.96 | 0.50 | 15.7 |
| 4/15/2015 | 15:17:23 | 55.45 | 54.05 | 42 | 4.08 | 0.41 | 2.3 |
| 4/15/2015 | 15:17:24 | 55.77 | 54.37 | 145 | 3.37 | 0.41 | 7.9 |
| 4/15/2015 | 15:17:25 | 56.10 | 54.70 | 264 | 3.77 | 0.41 | 14.4 |
| 4/15/2015 | 15:17:28 | 56.40 | 55.00 | 100 | 6.69 | 0.44 | 5.5 |

## JCB-327-3 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 15:12:40

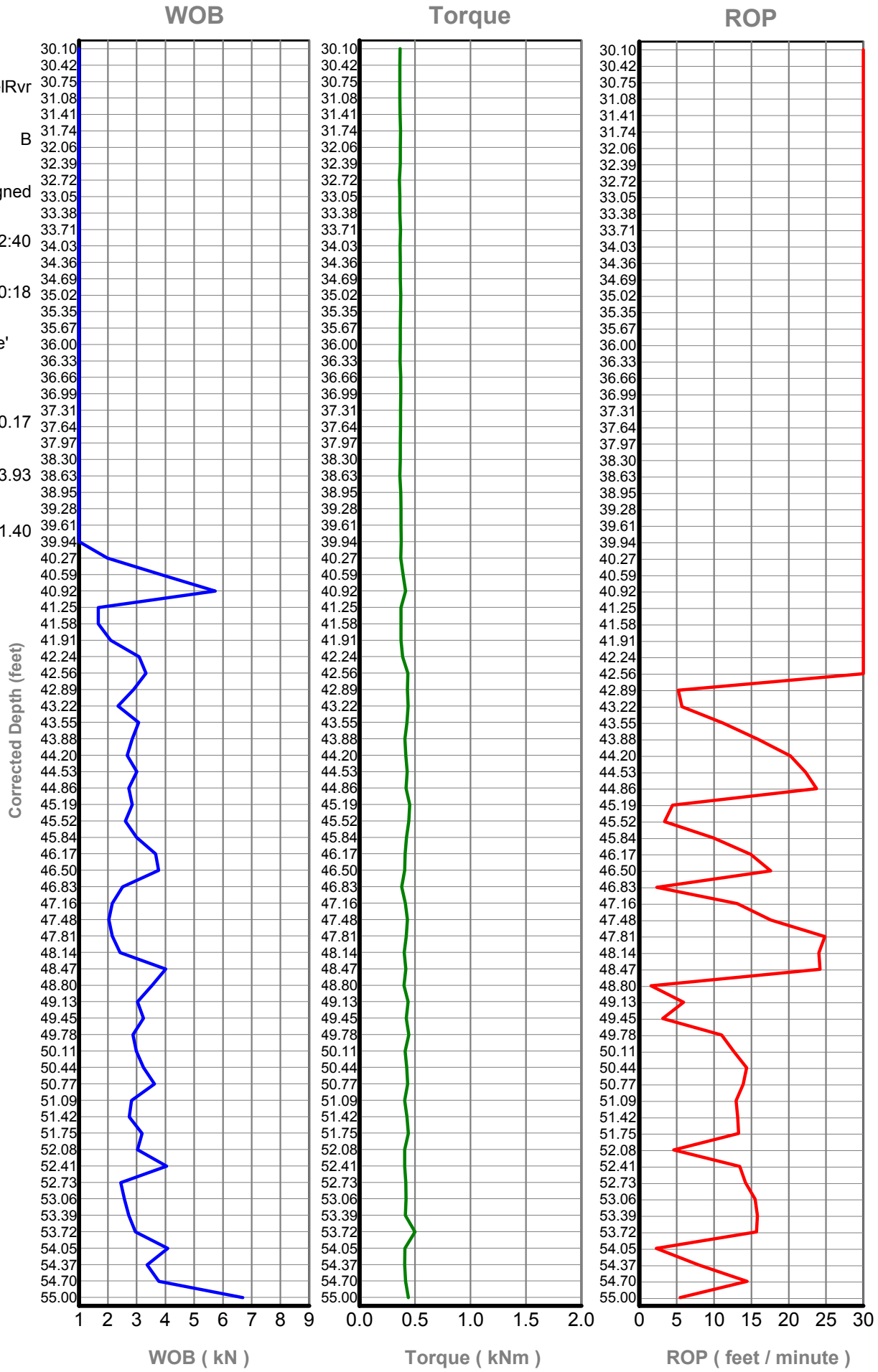
**End Date:**
4/15/2015 15:20:18

**Operator Note:**
'1.4 1.4 b Auto Complete'

**Northing:**
362,910.17

**Easting:**
246,453.93

**Tide (feet):**
1.40



## Hole: JCB-327-5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:24:40 | 31.50 | 30.30 | 1,035 | 1.60 | 0.35 | 56.6 |
| 4/15/2015 15:24:40 | 31.82 | 30.62 | 1,038 | 1.59 | 0.35 | 56.7 |
| 4/15/2015 15:24:41 | 32.15 | 30.95 | 1,035 | 1.59 | 0.36 | 56.6 |
| 4/15/2015 15:24:42 | 32.48 | 31.28 | 1,035 | 1.59 | 0.36 | 56.6 |
| 4/15/2015 15:24:57 | 32.81 | 31.61 | 65 | 1.55 | 0.36 | 3.5 |
| 4/15/2015 15:24:58 | 33.14 | 31.94 | 65 | 1.55 | 0.36 | 3.5 |
| 4/15/2015 15:24:58 | 33.46 | 32.26 | 253 | 1.55 | 0.36 | 13.9 |
| 4/15/2015 15:24:58 | 33.79 | 32.59 | 447 | 1.57 | 0.36 | 24.5 |
| 4/15/2015 15:24:59 | 34.12 | 32.92 | 447 | 1.57 | 0.36 | 24.5 |
| 4/15/2015 15:24:59 | 34.45 | 33.25 | 651 | 1.57 | 0.36 | 35.6 |
| 4/15/2015 15:24:59 | 34.78 | 33.58 | 842 | 1.58 | 0.36 | 46.0 |
| 4/15/2015 15:25:00 | 35.11 | 33.91 | 963 | 1.57 | 0.36 | 52.6 |
| 4/15/2015 15:25:00 | 35.43 | 34.23 | 963 | 1.57 | 0.36 | 52.6 |
| 4/15/2015 15:25:00 | 35.76 | 34.56 | 960 | 1.58 | 0.36 | 52.5 |
| 4/15/2015 15:25:01 | 36.09 | 34.89 | 969 | 1.57 | 0.36 | 53.0 |
| 4/15/2015 15:25:01 | 36.42 | 35.22 | 969 | 1.57 | 0.36 | 53.0 |
| 4/15/2015 15:25:01 | 36.75 | 35.55 | 960 | 1.57 | 0.37 | 52.5 |
| 4/15/2015 15:25:02 | 37.07 | 35.87 | 946 | 1.56 | 0.36 | 51.7 |
| 4/15/2015 15:25:02 | 37.40 | 36.20 | 949 | 1.54 | 0.36 | 51.9 |
| 4/15/2015 15:25:03 | 37.73 | 36.53 | 949 | 1.54 | 0.36 | 51.9 |
| 4/15/2015 15:25:03 | 38.06 | 36.86 | 961 | 1.55 | 0.37 | 52.5 |
| 4/15/2015 15:25:04 | 38.39 | 37.19 | 943 | 1.56 | 0.37 | 51.5 |
| 4/15/2015 15:25:04 | 38.71 | 37.51 | 937 | 1.55 | 0.36 | 51.2 |
| 4/15/2015 15:25:05 | 39.04 | 37.84 | 937 | 1.55 | 0.36 | 51.2 |
| 4/15/2015 15:25:05 | 39.37 | 38.17 | 937 | 1.57 | 0.36 | 51.2 |
| 4/15/2015 15:25:05 | 39.70 | 38.50 | 955 | 1.57 | 0.36 | 52.2 |
| 4/15/2015 15:25:06 | 40.03 | 38.83 | 955 | 1.57 | 0.36 | 52.2 |
| 4/15/2015 15:25:06 | 40.35 | 39.15 | 949 | 1.57 | 0.36 | 51.9 |
| 4/15/2015 15:25:06 | 40.68 | 39.48 | 944 | 1.57 | 0.37 | 51.6 |
| 4/15/2015 15:25:07 | 41.01 | 39.81 | 932 | 1.31 | 0.37 | 51.0 |
| 4/15/2015 15:25:07 | 41.34 | 40.14 | 932 | 1.31 | 0.37 | 51.0 |
| 4/15/2015 15:25:07 | 41.67 | 40.47 | 952 | 1.57 | 0.36 | 52.1 |
| 4/15/2015 15:25:08 | 41.99 | 40.79 | 934 | 1.56 | 0.37 | 51.1 |
| 4/15/2015 15:25:08 | 42.32 | 41.12 | 931 | 1.57 | 0.36 | 50.9 |
| 4/15/2015 15:25:09 | 42.65 | 41.45 | 931 | 1.57 | 0.36 | 50.9 |
| 4/15/2015 15:25:09 | 42.98 | 41.78 | 931 | 1.55 | 0.36 | 50.9 |
| 4/15/2015 15:25:09 | 43.31 | 42.11 | 935 | 1.60 | 0.36 | 51.1 |
| 4/15/2015 15:25:10 | 43.64 | 42.44 | 937 | 2.70 | 0.40 | 51.3 |
| 4/15/2015 15:25:11 | 43.96 | 42.76 | 525 | 2.33 | 0.43 | 28.7 |
| 4/15/2015 15:25:23 | 44.29 | 43.09 | 10 | 2.17 | 0.39 | 0.6 |
| 4/15/2015 15:25:23 | 44.62 | 43.42 | 125 | 1.72 | 0.38 | 6.8 |
| 4/15/2015 15:25:24 | 44.95 | 43.75 | 125 | 1.68 | 0.36 | 6.8 |
| 4/15/2015 15:25:24 | 45.28 | 44.08 | 125 | 1.68 | 0.36 | 6.8 |
| 4/15/2015 15:25:24 | 45.60 | 44.40 | 282 | 1.86 | 0.38 | 15.4 |
| 4/15/2015 15:25:25 | 45.93 | 44.73 | 445 | 2.27 | 0.39 | 24.3 |
| 4/15/2015 15:25:27 | 46.26 | 45.06 | 305 | 2.78 | 0.45 | 16.7 |
| 4/15/2015 15:25:33 | 46.59 | 45.39 | 69 | 2.48 | 0.44 | 3.8 |
| 4/15/2015 15:25:53 | 46.92 | 45.72 | 73 | 2.85 | 0.45 | 4.0 |
| 4/15/2015 15:25:54 | 47.24 | 46.04 | 100 | 2.85 | 0.42 | 5.4 |
| 4/15/2015 15:25:56 | 47.57 | 46.37 | 223 | 2.92 | 0.40 | 12.2 |
| 4/15/2015 15:25:57 | 47.90 | 46.70 | 347 | 3.29 | 0.41 | 19.0 |
| 4/15/2015 15:25:57 | 48.23 | 47.03 | 396 | 2.69 | 0.40 | 21.6 |
| 4/15/2015 15:25:58 | 48.56 | 47.36 | 436 | 2.36 | 0.41 | 23.8 |
| 4/15/2015 15:25:59 | 48.88 | 47.68 | 417 | 2.67 | 0.40 | 22.8 |
| 4/15/2015 15:26:01 | 49.21 | 48.01 | 282 | 3.83 | 0.43 | 15.4 |
| 4/15/2015 15:26:02 | 49.54 | 48.34 | 265 | 3.33 | 0.40 | 14.5 |
| 4/15/2015 15:26:02 | 49.87 | 48.67 | 306 | 2.81 | 0.39 | 16.7 |
| 4/15/2015 15:26:03 | 50.20 | 49.00 | 385 | 2.81 | 0.43 | 21.1 |
| 4/15/2015 15:26:05 | 50.53 | 49.33 | 344 | 2.71 | 0.42 | 18.8 |
| 4/15/2015 15:26:06 | 50.85 | 49.65 | 281 | 2.86 | 0.41 | 15.3 |
| 4/15/2015 15:26:08 | 51.18 | 49.98 | 185 | 3.11 | 0.44 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 15:26:10 | 51.51 | 50.31 | 202 | 3.52 | 0.43 | 11.1 |
| 4/15/2015 | 15:26:12 | 51.84 | 50.64 | 213 | 3.01 | 0.43 | 11.6 |
| 4/15/2015 | 15:26:23 | 52.17 | 50.97 | 0 | 2.81 | 0.30 | 0.0 |
| 4/15/2015 | 15:26:30 | 52.49 | 51.29 | 85 | 3.68 | 0.42 | 4.6 |
| 4/15/2015 | 15:26:32 | 52.82 | 51.62 | 183 | 2.98 | 0.44 | 10.0 |
| 4/15/2015 | 15:26:34 | 53.15 | 51.95 | 197 | 3.07 | 0.42 | 10.8 |
| 4/15/2015 | 15:26:35 | 53.48 | 52.28 | 214 | 3.16 | 0.43 | 11.7 |
| 4/15/2015 | 15:26:37 | 53.81 | 52.61 | 262 | 2.42 | 0.43 | 14.3 |
| 4/15/2015 | 15:26:38 | 54.13 | 52.93 | 299 | 2.71 | 0.41 | 16.3 |
| 4/15/2015 | 15:26:39 | 54.46 | 53.26 | 313 | 2.65 | 0.39 | 17.1 |
| 4/15/2015 | 15:26:40 | 54.79 | 53.59 | 335 | 2.68 | 0.40 | 18.3 |
| 4/15/2015 | 15:26:42 | 55.12 | 53.92 | 264 | 3.08 | 0.41 | 14.5 |
| 4/15/2015 | 15:26:43 | 55.45 | 54.25 | 236 | 2.47 | 0.40 | 12.9 |
| 4/15/2015 | 15:26:44 | 55.77 | 54.57 | 242 | 1.85 | 0.39 | 13.2 |
| 4/15/2015 | 15:26:44 | 56.10 | 54.90 | 303 | 2.67 | 0.40 | 16.6 |
| 4/15/2015 | 15:26:46 | 56.43 | 55.23 | 356 | 3.40 | 0.42 | 19.4 |
| 4/15/2015 | 15:26:48 | 56.55 | 55.35 | 240 | 2.80 | 0.37 | 13.1 |

## JCB-327-5 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 15:21:15

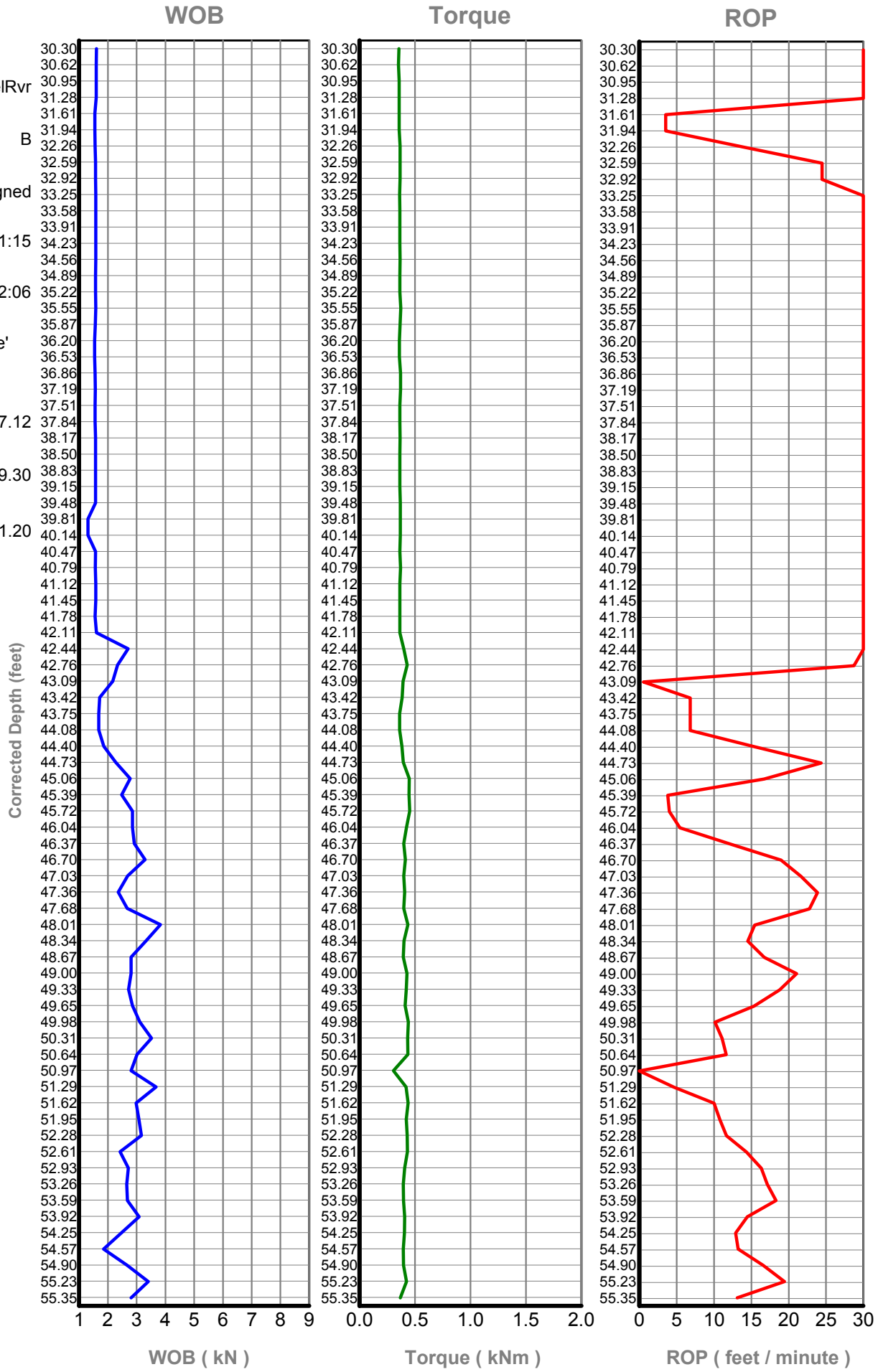
**End Date:**
4/15/2015 15:32:06

**Operator Note:**
'1.2 1.3 b Auto Complete'

**Northing:**
362,907.12

**Easting:**
246,449.30

**Tide (feet):**
1.20



## Hole: JCB-327-7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:36:31 | 31.17 | 30.17 | 957 | 1.79 | 0.36 | 52.4 |
| 4/15/2015 15:36:31 | 31.50 | 30.50 | 941 | 1.72 | 0.36 | 51.4 |
| 4/15/2015 15:36:31 | 31.82 | 30.82 | 941 | 1.74 | 0.36 | 51.4 |
| 4/15/2015 15:36:32 | 32.15 | 31.15 | 941 | 1.74 | 0.36 | 51.4 |
| 4/15/2015 15:36:32 | 32.48 | 31.48 | 939 | 1.73 | 0.36 | 51.3 |
| 4/15/2015 15:36:32 | 32.81 | 31.81 | 939 | 1.72 | 0.36 | 51.3 |
| 4/15/2015 15:36:33 | 33.14 | 32.14 | 930 | 1.72 | 0.36 | 50.9 |
| 4/15/2015 15:36:33 | 33.46 | 32.46 | 930 | 1.72 | 0.36 | 50.9 |
| 4/15/2015 15:36:33 | 33.79 | 32.79 | 921 | 1.72 | 0.36 | 50.4 |
| 4/15/2015 15:36:34 | 34.12 | 33.12 | 925 | 1.73 | 0.36 | 50.6 |
| 4/15/2015 15:36:34 | 34.45 | 33.45 | 954 | 1.74 | 0.37 | 52.1 |
| 4/15/2015 15:36:35 | 34.78 | 33.78 | 954 | 1.74 | 0.37 | 52.1 |
| 4/15/2015 15:36:35 | 35.11 | 34.11 | 927 | 1.72 | 0.36 | 50.7 |
| 4/15/2015 15:36:35 | 35.43 | 34.43 | 933 | 1.77 | 0.36 | 51.0 |
| 4/15/2015 15:36:36 | 35.76 | 34.76 | 933 | 1.77 | 0.36 | 51.0 |
| 4/15/2015 15:36:36 | 36.09 | 35.09 | 933 | 1.73 | 0.36 | 51.0 |
| 4/15/2015 15:36:36 | 36.42 | 35.42 | 942 | 1.74 | 0.37 | 51.5 |
| 4/15/2015 15:36:37 | 36.75 | 35.75 | 928 | 1.73 | 0.37 | 50.8 |
| 4/15/2015 15:36:37 | 37.07 | 36.07 | 928 | 1.73 | 0.37 | 50.8 |
| 4/15/2015 15:36:37 | 37.40 | 36.40 | 911 | 1.72 | 0.36 | 49.8 |
| 4/15/2015 15:36:38 | 37.73 | 36.73 | 911 | 1.73 | 0.36 | 49.8 |
| 4/15/2015 15:36:38 | 38.06 | 37.06 | 939 | 1.73 | 0.36 | 51.4 |
| 4/15/2015 15:36:39 | 38.39 | 37.39 | 939 | 1.73 | 0.36 | 51.4 |
| 4/15/2015 15:36:39 | 38.71 | 37.71 | 920 | 1.73 | 0.37 | 50.3 |
| 4/15/2015 15:36:40 | 39.04 | 38.04 | 920 | 1.73 | 0.36 | 50.3 |
| 4/15/2015 15:36:40 | 39.37 | 38.37 | 903 | 1.74 | 0.36 | 49.4 |
| 4/15/2015 15:36:41 | 39.70 | 38.70 | 903 | 1.74 | 0.36 | 49.4 |
| 4/15/2015 15:36:41 | 40.03 | 39.03 | 916 | 1.74 | 0.37 | 50.1 |
| 4/15/2015 15:36:41 | 40.35 | 39.35 | 908 | 1.74 | 0.37 | 49.7 |
| 4/15/2015 15:36:42 | 40.68 | 39.68 | 908 | 1.73 | 0.36 | 49.7 |
| 4/15/2015 15:36:42 | 41.01 | 40.01 | 908 | 1.73 | 0.36 | 49.7 |
| 4/15/2015 15:36:42 | 41.34 | 40.34 | 890 | 1.73 | 0.36 | 48.7 |
| 4/15/2015 15:36:43 | 41.67 | 40.67 | 890 | 1.72 | 0.36 | 48.7 |
| 4/15/2015 15:36:43 | 41.99 | 40.99 | 920 | 1.73 | 0.37 | 50.3 |
| 4/15/2015 15:36:44 | 42.32 | 41.32 | 920 | 1.73 | 0.37 | 50.3 |
| 4/15/2015 15:36:44 | 42.65 | 41.65 | 903 | 1.73 | 0.37 | 49.4 |
| 4/15/2015 15:36:44 | 42.98 | 41.98 | 903 | 1.96 | 0.39 | 49.4 |
| 4/15/2015 15:36:46 | 43.31 | 42.31 | 713 | 3.43 | 0.38 | 39.0 |
| 4/15/2015 15:36:46 | 43.64 | 42.64 | 577 | 1.71 | 0.38 | 31.6 |
| 4/15/2015 15:36:51 | 43.96 | 42.96 | 192 | 3.87 | 0.42 | 10.5 |
| 4/15/2015 15:36:55 | 44.29 | 43.29 | 51 | 2.88 | 0.43 | 2.8 |
| 4/15/2015 15:36:56 | 44.62 | 43.62 | 191 | 2.65 | 0.40 | 10.4 |
| 4/15/2015 15:36:56 | 44.95 | 43.95 | 268 | 2.42 | 0.41 | 14.6 |
| 4/15/2015 15:36:57 | 45.28 | 44.28 | 368 | 3.24 | 0.41 | 20.1 |
| 4/15/2015 15:36:58 | 45.60 | 44.60 | 452 | 3.77 | 0.41 | 24.7 |
| 4/15/2015 15:36:59 | 45.93 | 44.93 | 425 | 3.07 | 0.42 | 23.2 |
| 4/15/2015 15:37:01 | 46.26 | 45.26 | 224 | 2.53 | 0.44 | 12.2 |
| 4/15/2015 15:37:03 | 46.59 | 45.59 | 200 | 2.99 | 0.41 | 10.9 |
| 4/15/2015 15:37:04 | 46.92 | 45.92 | 197 | 2.80 | 0.42 | 10.8 |
| 4/15/2015 15:37:05 | 47.24 | 46.24 | 238 | 3.10 | 0.40 | 13.0 |
| 4/15/2015 15:37:06 | 47.57 | 46.57 | 294 | 2.90 | 0.39 | 16.1 |
| 4/15/2015 15:37:06 | 47.90 | 46.90 | 344 | 2.25 | 0.39 | 18.8 |
| 4/15/2015 15:37:07 | 48.23 | 47.23 | 395 | 2.06 | 0.41 | 21.6 |
| 4/15/2015 15:37:08 | 48.56 | 47.56 | 457 | 2.14 | 0.41 | 25.0 |
| 4/15/2015 15:37:12 | 48.88 | 47.88 | 98 | 2.60 | 0.43 | 5.4 |
| 4/15/2015 15:37:13 | 49.21 | 48.21 | 138 | 2.39 | 0.41 | 7.5 |
| 4/15/2015 15:37:14 | 49.54 | 48.54 | 198 | 2.55 | 0.40 | 10.8 |
| 4/15/2015 15:37:15 | 49.87 | 48.87 | 309 | 2.84 | 0.43 | 16.9 |
| 4/15/2015 15:37:16 | 50.20 | 49.20 | 314 | 3.56 | 0.41 | 17.2 |
| 4/15/2015 15:37:18 | 50.53 | 49.53 | 221 | 3.64 | 0.42 | 12.1 |
| 4/15/2015 15:37:20 | 50.85 | 49.85 | 156 | 3.05 | 0.45 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 15:37:22 | 51.18 | 50.18 | 169 | 2.89 | 0.41 | 9.2 |
| 4/15/2015 | 15:37:24 | 51.51 | 50.51 | 210 | 2.64 | 0.43 | 11.5 |
| 4/15/2015 | 15:37:26 | 51.84 | 50.84 | 211 | 3.33 | 0.43 | 11.6 |
| 4/15/2015 | 15:37:27 | 52.17 | 51.17 | 224 | 2.59 | 0.43 | 12.2 |
| 4/15/2015 | 15:37:29 | 52.49 | 51.49 | 202 | 2.67 | 0.42 | 11.1 |
| 4/15/2015 | 15:37:31 | 52.82 | 51.82 | 185 | 2.72 | 0.44 | 10.1 |
| 4/15/2015 | 15:37:33 | 53.15 | 52.15 | 168 | 3.48 | 0.43 | 9.2 |
| 4/15/2015 | 15:37:35 | 53.48 | 52.48 | 213 | 2.84 | 0.42 | 11.6 |
| 4/15/2015 | 15:37:36 | 53.81 | 52.81 | 238 | 5.36 | 0.44 | 13.0 |
| 4/15/2015 | 15:37:38 | 54.13 | 53.13 | 176 | 2.38 | 0.42 | 9.6 |
| 4/15/2015 | 15:37:48 | 54.46 | 53.46 | 84 | 2.51 | 0.40 | 4.6 |
| 4/15/2015 | 15:37:49 | 54.79 | 53.79 | 193 | 3.31 | 0.41 | 10.5 |
| 4/15/2015 | 15:37:50 | 55.12 | 54.12 | 292 | 2.09 | 0.42 | 15.9 |
| 4/15/2015 | 15:37:51 | 55.45 | 54.45 | 341 | 2.39 | 0.42 | 18.6 |
| 4/15/2015 | 15:37:52 | 55.77 | 54.77 | 358 | 3.22 | 0.41 | 19.6 |
| 4/15/2015 | 15:37:54 | 56.10 | 55.10 | 352 | 3.09 | 0.43 | 19.3 |
| 4/15/2015 | 15:37:56 | 56.30 | 55.30 | 174 | 2.76 | 0.32 | 9.5 |

## JCB-327-7 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 15:33:38

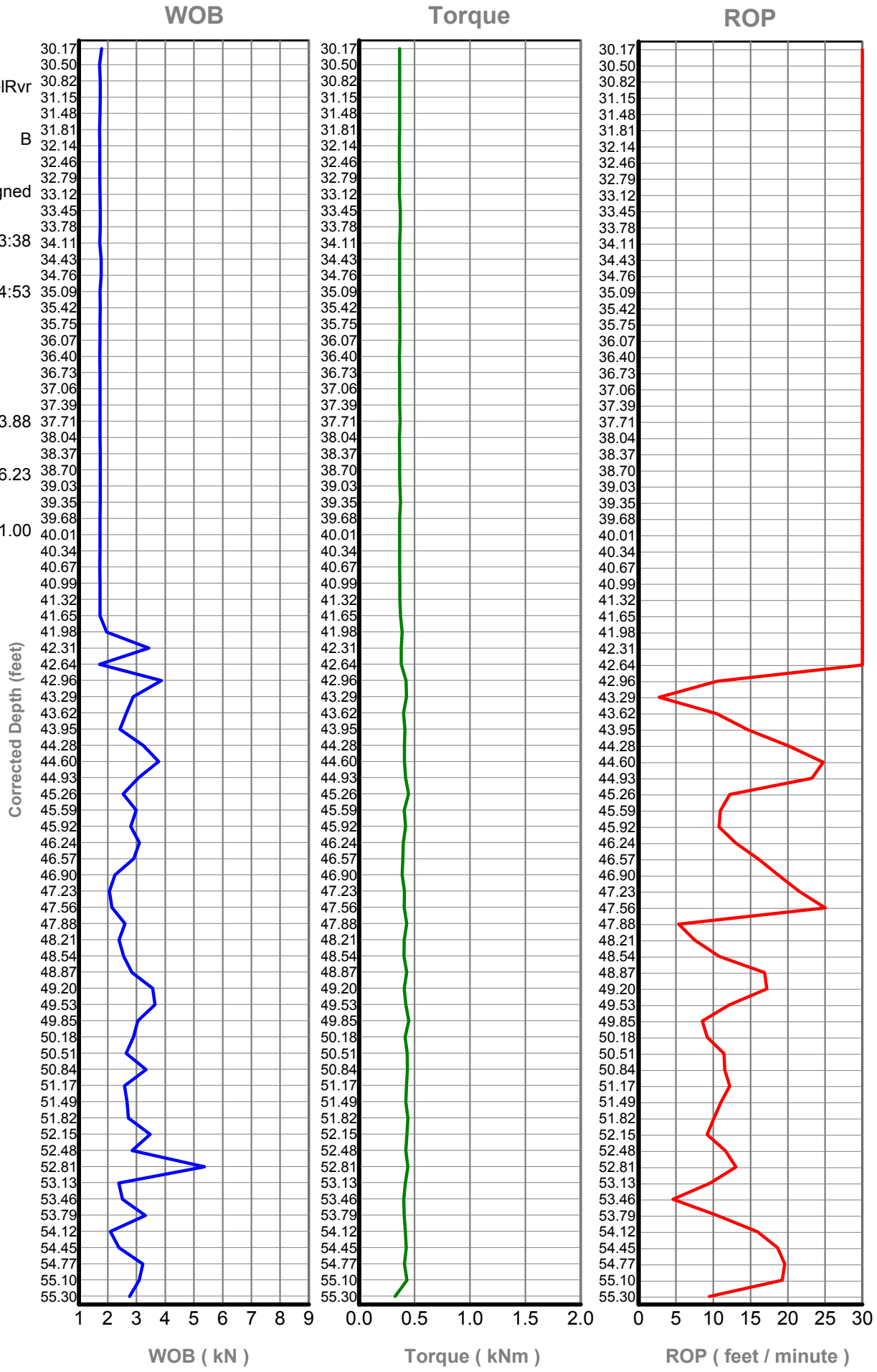
**End Date:**
4/15/2015 15:44:53

**Operator Note:**
'1 1.2 b Auto Complete'

**Northing:**
362,903.88

**Easting:**
246,446.23

**Tide (feet):**
1.00



## Hole: JCB-327-9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 15:49:16 | 30.84 | 30.04 | 830 | 1.54 | 0.37 | 45.4 |
| 4/15/2015 15:49:16 | 31.17 | 30.37 | 825 | 1.52 | 0.37 | 45.1 |
| 4/15/2015 15:49:17 | 31.50 | 30.70 | 825 | 1.54 | 0.37 | 45.1 |
| 4/15/2015 15:49:17 | 31.82 | 31.02 | 827 | 1.52 | 0.37 | 45.2 |
| 4/15/2015 15:49:18 | 32.15 | 31.35 | 827 | 1.52 | 0.37 | 45.2 |
| 4/15/2015 15:49:18 | 32.48 | 31.68 | 829 | 1.53 | 0.37 | 45.3 |
| 4/15/2015 15:49:18 | 32.81 | 32.01 | 823 | 1.52 | 0.37 | 45.0 |
| 4/15/2015 15:49:19 | 33.14 | 32.34 | 823 | 1.52 | 0.37 | 45.0 |
| 4/15/2015 15:49:19 | 33.46 | 32.66 | 829 | 1.52 | 0.38 | 45.3 |
| 4/15/2015 15:49:20 | 33.79 | 32.99 | 829 | 1.52 | 0.38 | 45.3 |
| 4/15/2015 15:49:20 | 34.12 | 33.32 | 843 | 1.53 | 0.38 | 46.1 |
| 4/15/2015 15:49:20 | 34.45 | 33.65 | 841 | 1.53 | 0.37 | 46.0 |
| 4/15/2015 15:49:21 | 34.78 | 33.98 | 833 | 1.55 | 0.37 | 45.5 |
| 4/15/2015 15:49:22 | 35.11 | 34.31 | 835 | 1.54 | 0.38 | 45.7 |
| 4/15/2015 15:49:22 | 35.43 | 34.63 | 827 | 1.53 | 0.37 | 45.2 |
| 4/15/2015 15:49:23 | 35.76 | 34.96 | 827 | 1.53 | 0.37 | 45.2 |
| 4/15/2015 15:49:23 | 36.09 | 35.29 | 827 | 1.53 | 0.37 | 45.2 |
| 4/15/2015 15:49:23 | 36.42 | 35.62 | 818 | 1.53 | 0.37 | 44.7 |
| 4/15/2015 15:49:24 | 36.75 | 35.95 | 820 | 1.52 | 0.38 | 44.8 |
| 4/15/2015 15:49:24 | 37.07 | 36.27 | 812 | 1.51 | 0.38 | 44.4 |
| 4/15/2015 15:49:25 | 37.40 | 36.60 | 810 | 1.51 | 0.37 | 44.3 |
| 4/15/2015 15:49:25 | 37.73 | 36.93 | 810 | 1.52 | 0.37 | 44.3 |
| 4/15/2015 15:49:26 | 38.06 | 37.26 | 810 | 1.52 | 0.37 | 44.3 |
| 4/15/2015 15:49:26 | 38.39 | 37.59 | 812 | 1.51 | 0.38 | 44.4 |
| 4/15/2015 15:49:26 | 38.71 | 37.91 | 807 | 1.53 | 0.38 | 44.2 |
| 4/15/2015 15:49:27 | 39.04 | 38.24 | 812 | 1.53 | 0.38 | 44.4 |
| 4/15/2015 15:49:27 | 39.37 | 38.57 | 812 | 1.53 | 0.37 | 44.4 |
| 4/15/2015 15:49:28 | 39.70 | 38.90 | 812 | 2.07 | 0.37 | 44.4 |
| 4/15/2015 15:49:28 | 40.03 | 39.23 | 812 | 2.07 | 0.37 | 44.4 |
| 4/15/2015 15:49:28 | 40.35 | 39.55 | 809 | 1.57 | 0.37 | 44.3 |
| 4/15/2015 15:49:29 | 40.68 | 39.88 | 815 | 1.92 | 0.38 | 44.6 |
| 4/15/2015 15:49:29 | 41.01 | 40.21 | 815 | 1.69 | 0.39 | 44.6 |
| 4/15/2015 15:49:30 | 41.34 | 40.54 | 801 | 1.52 | 0.38 | 43.8 |
| 4/15/2015 15:49:30 | 41.67 | 40.87 | 773 | 1.81 | 0.38 | 42.3 |
| 4/15/2015 15:49:31 | 41.99 | 41.19 | 773 | 1.74 | 0.38 | 42.3 |
| 4/15/2015 15:49:32 | 42.32 | 41.52 | 762 | 2.18 | 0.39 | 41.6 |
| 4/15/2015 15:49:32 | 42.65 | 41.85 | 746 | 1.57 | 0.38 | 40.8 |
| 4/15/2015 15:49:33 | 42.98 | 42.18 | 731 | 1.72 | 0.39 | 40.0 |
| 4/15/2015 15:49:33 | 43.31 | 42.51 | 738 | 2.97 | 0.40 | 40.4 |
| 4/15/2015 15:49:34 | 43.64 | 42.84 | 727 | 4.20 | 0.42 | 39.8 |
| 4/15/2015 15:49:40 | 43.96 | 43.16 | 47 | 4.07 | 0.46 | 2.6 |
| 4/15/2015 15:49:44 | 44.29 | 43.49 | 58 | 2.14 | 0.42 | 3.2 |
| 4/15/2015 15:49:45 | 44.62 | 43.82 | 93 | 2.38 | 0.38 | 5.1 |
| 4/15/2015 15:49:45 | 44.95 | 44.15 | 173 | 2.14 | 0.40 | 9.4 |
| 4/15/2015 15:49:46 | 45.28 | 44.48 | 353 | 2.61 | 0.40 | 19.3 |
| 4/15/2015 15:49:47 | 45.60 | 44.80 | 425 | 3.43 | 0.42 | 23.2 |
| 4/15/2015 15:49:52 | 45.93 | 45.13 | 59 | 2.92 | 0.44 | 3.2 |
| 4/15/2015 15:49:56 | 46.26 | 45.46 | 122 | 2.55 | 0.43 | 6.6 |
| 4/15/2015 15:50:04 | 46.59 | 45.79 | 6 | 1.79 | 0.45 | 0.3 |
| 4/15/2015 15:50:47 | 46.92 | 46.12 | 0 | 2.29 | 0.43 | 0.0 |
| 4/15/2015 15:50:49 | 47.24 | 46.44 | 150 | 2.88 | 0.44 | 8.2 |
| 4/15/2015 15:50:51 | 47.57 | 46.77 | 178 | 2.61 | 0.41 | 9.7 |
| 4/15/2015 15:50:51 | 47.90 | 47.10 | 228 | 2.40 | 0.40 | 12.5 |
| 4/15/2015 15:50:52 | 48.23 | 47.43 | 314 | 2.08 | 0.40 | 17.2 |
| 4/15/2015 15:50:53 | 48.56 | 47.76 | 483 | 2.99 | 0.42 | 26.4 |
| 4/15/2015 15:50:54 | 48.88 | 48.08 | 463 | 3.52 | 0.40 | 25.3 |
| 4/15/2015 15:50:55 | 49.21 | 48.41 | 375 | 2.95 | 0.41 | 20.5 |
| 4/15/2015 15:50:56 | 49.54 | 48.74 | 348 | 2.42 | 0.39 | 19.0 |
| 4/15/2015 15:50:57 | 49.87 | 49.07 | 385 | 2.71 | 0.42 | 21.1 |
| 4/15/2015 15:50:58 | 50.20 | 49.40 | 405 | 3.21 | 0.42 | 22.2 |
| 4/15/2015 15:50:59 | 50.53 | 49.73 | 318 | 3.50 | 0.43 | 17.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 15:51:01 | 50.85 | 50.05 | 231 | 3.48 | 0.41 | 12.7 |
| 4/15/2015 | 15:51:02 | 51.18 | 50.38 | 218 | 2.75 | 0.42 | 11.9 |
| 4/15/2015 | 15:51:04 | 51.51 | 50.71 | 246 | 2.82 | 0.42 | 13.4 |
| 4/15/2015 | 15:51:06 | 51.84 | 51.04 | 234 | 3.50 | 0.42 | 12.8 |
| 4/15/2015 | 15:51:07 | 52.17 | 51.37 | 219 | 2.95 | 0.40 | 12.0 |
| 4/15/2015 | 15:51:09 | 52.49 | 51.69 | 237 | 5.51 | 0.43 | 13.0 |
| 4/15/2015 | 15:51:17 | 52.82 | 52.02 | 118 | 2.97 | 0.41 | 6.5 |
| 4/15/2015 | 15:51:18 | 53.15 | 52.35 | 211 | 3.12 | 0.42 | 11.6 |
| 4/15/2015 | 15:51:20 | 53.48 | 52.68 | 229 | 2.48 | 0.43 | 12.5 |
| 4/15/2015 | 15:51:21 | 53.81 | 53.01 | 254 | 3.39 | 0.40 | 13.9 |
| 4/15/2015 | 15:51:22 | 54.13 | 53.33 | 273 | 3.20 | 0.41 | 14.9 |
| 4/15/2015 | 15:51:23 | 54.46 | 53.66 | 346 | 1.86 | 0.40 | 18.9 |
| 4/15/2015 | 15:51:23 | 54.79 | 53.99 | 417 | 2.58 | 0.43 | 22.8 |
| 4/15/2015 | 15:51:24 | 55.12 | 54.32 | 457 | 2.84 | 0.40 | 25.0 |
| 4/15/2015 | 15:51:25 | 55.45 | 54.65 | 475 | 2.66 | 0.42 | 26.0 |
| 4/15/2015 | 15:51:26 | 55.77 | 54.97 | 385 | 5.01 | 0.43 | 21.1 |
| 4/15/2015 | 15:51:28 | 56.10 | 55.30 | 270 | 6.22 | 0.46 | 14.8 |

## JCB-327-9 - Summary

**Pattern Number:**
AreaJ_CB327-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 15:46:36

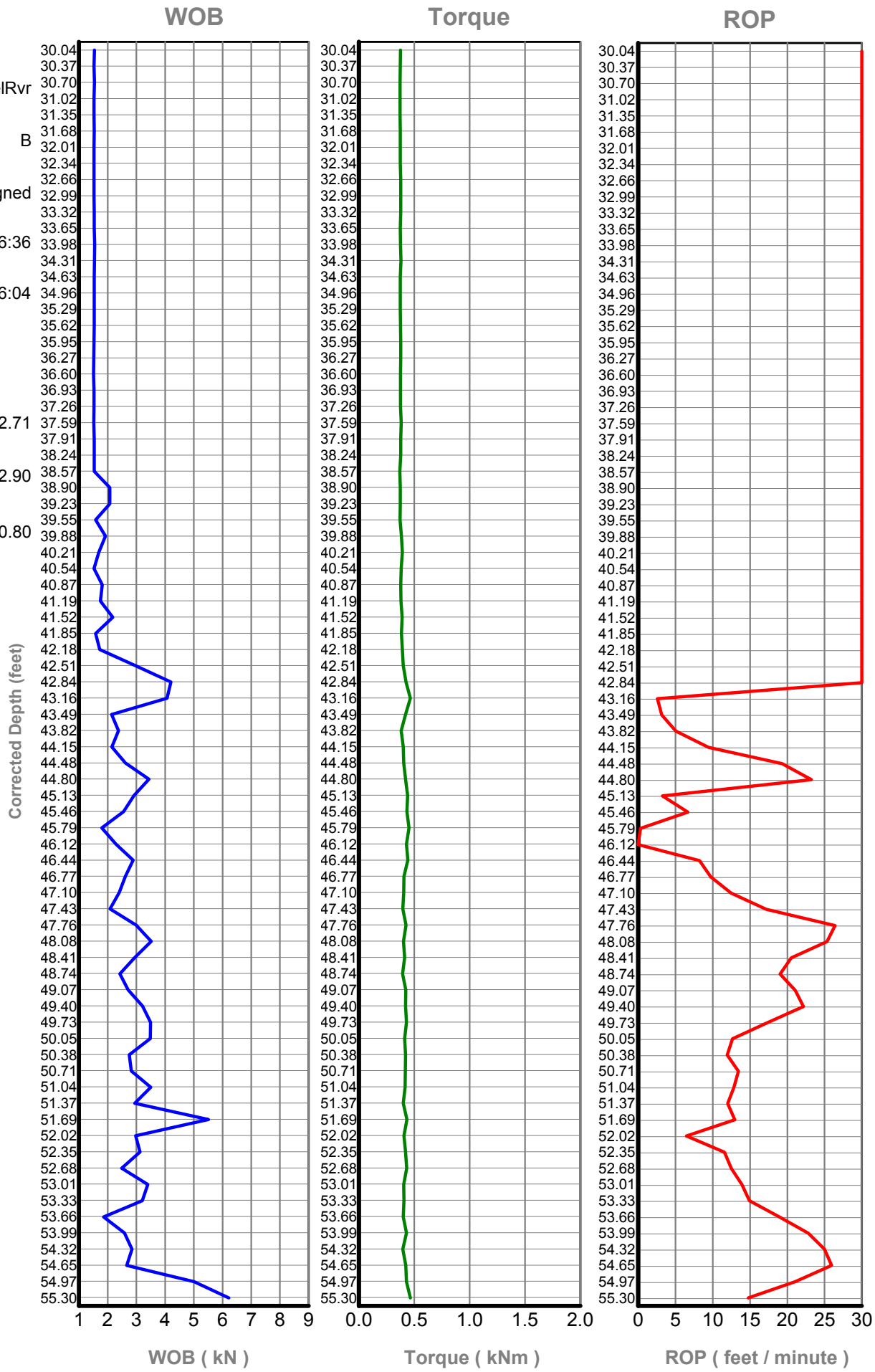
**End Date:**
4/15/2015 15:56:04

**Operator Note:**
'0.8 1 b Auto Complete'

**Northing:**
362,902.71

**Easting:**
246,442.90

**Tide (feet):**
0.80



## Hole: K1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:11:59 | 34.78 | 30.28 | 807 | 1.26 | 0.18 | 44.1 |
| 4/30/2015 8:12:00 | 35.11 | 30.61 | 804 | 1.27 | 0.18 | 43.9 |
| 4/30/2015 8:12:01 | 35.43 | 30.93 | 804 | 1.27 | 0.18 | 43.9 |
| 4/30/2015 8:12:01 | 35.76 | 31.26 | 814 | 1.27 | 0.18 | 44.5 |
| 4/30/2015 8:12:01 | 36.09 | 31.59 | 804 | 1.28 | 0.18 | 43.9 |
| 4/30/2015 8:12:02 | 36.42 | 31.92 | 804 | 1.26 | 0.18 | 43.9 |
| 4/30/2015 8:12:02 | 36.75 | 32.25 | 804 | 1.27 | 0.18 | 43.9 |
| 4/30/2015 8:12:03 | 37.07 | 32.57 | 809 | 1.27 | 0.18 | 44.3 |
| 4/30/2015 8:12:03 | 37.40 | 32.90 | 804 | 1.28 | 0.18 | 43.9 |
| 4/30/2015 8:12:04 | 37.73 | 33.23 | 804 | 1.28 | 0.18 | 43.9 |
| 4/30/2015 8:12:04 | 38.06 | 33.56 | 806 | 1.26 | 0.18 | 44.1 |
| 4/30/2015 8:12:04 | 38.39 | 33.89 | 801 | 1.26 | 0.18 | 43.8 |
| 4/30/2015 8:12:05 | 38.71 | 34.21 | 809 | 1.28 | 0.18 | 44.3 |
| 4/30/2015 8:12:05 | 39.04 | 34.54 | 807 | 1.26 | 0.18 | 44.1 |
| 4/30/2015 8:12:06 | 39.37 | 34.87 | 809 | 1.43 | 0.18 | 44.3 |
| 4/30/2015 8:12:08 | 39.70 | 35.20 | 146 | 1.36 | 0.16 | 8.0 |
| 4/30/2015 8:12:24 | 40.03 | 35.53 | 92 | 1.29 | 1.41 | 5.0 |
| 4/30/2015 8:12:24 | 40.35 | 35.85 | 155 | 1.21 | 1.20 | 8.5 |
| 4/30/2015 8:12:26 | 40.68 | 36.18 | 227 | 1.21 | 1.15 | 12.4 |
| 4/30/2015 8:12:29 | 41.01 | 36.51 | 137 | 1.26 | 1.46 | 7.5 |
| 4/30/2015 8:12:33 | 41.34 | 36.84 | 94 | 0.60 | 1.32 | 5.1 |
| 4/30/2015 8:12:39 | 41.67 | 37.17 | 34 | 0.35 | 1.55 | 1.9 |
| 4/30/2015 8:12:49 | 41.99 | 37.49 | 14 | 1.10 | 1.04 | 0.8 |
| 4/30/2015 8:12:53 | 42.32 | 37.82 | 14 | 1.21 | 1.15 | 0.8 |
| 4/30/2015 8:12:56 | 42.65 | 38.15 | 125 | 1.15 | 1.04 | 6.8 |
| 4/30/2015 8:12:59 | 42.98 | 38.48 | 129 | 1.15 | 1.13 | 7.1 |
| 4/30/2015 8:13:02 | 43.31 | 38.81 | 127 | 1.18 | 1.01 | 7.0 |
| 4/30/2015 8:13:04 | 43.64 | 39.14 | 187 | 0.45 | 1.11 | 10.2 |
| 4/30/2015 8:13:08 | 43.96 | 39.46 | 68 | 1.19 | 1.12 | 3.7 |
| 4/30/2015 8:13:14 | 44.29 | 39.79 | 72 | 1.15 | 1.26 | 3.9 |
| 4/30/2015 8:13:19 | 44.62 | 40.12 | 72 | 1.15 | 1.12 | 4.0 |
| 4/30/2015 8:13:25 | 44.95 | 40.45 | 61 | 1.19 | 1.40 | 3.3 |
| 4/30/2015 8:13:28 | 45.28 | 40.78 | 105 | 1.15 | 1.34 | 5.7 |
| 4/30/2015 8:13:31 | 45.60 | 41.10 | 118 | 1.14 | 1.50 | 6.5 |
| 4/30/2015 8:13:41 | 45.93 | 41.43 | 29 | 1.16 | 1.03 | 1.6 |
| 4/30/2015 8:13:55 | 46.26 | 41.76 | 29 | 1.11 | 1.09 | 1.6 |
| 4/30/2015 8:14:04 | 46.59 | 42.09 | 35 | 1.11 | 1.04 | 1.9 |
| 4/30/2015 8:14:15 | 46.92 | 42.42 | 32 | 1.15 | 1.03 | 1.7 |
| 4/30/2015 8:14:18 | 47.00 | 42.50 | 46 | 1.25 | 1.21 | 2.5 |

## K1 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:09:44

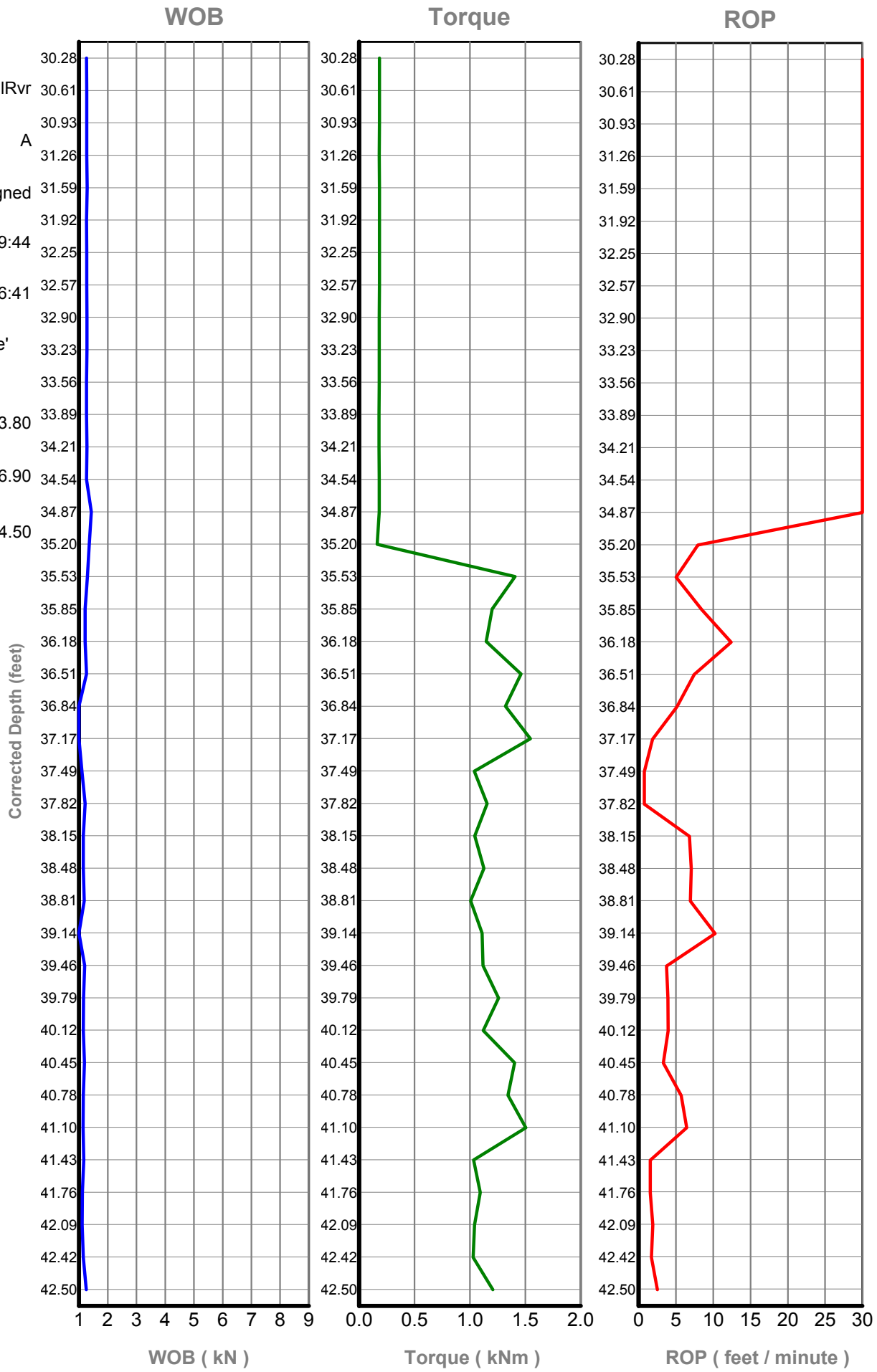
**End Date:**
4/30/2015 8:16:41

**Operator Note:**
'4.5 4.0 a Auto Complete'

**Northing:**
361,673.80

**Easting:**
244,116.90

**Tide (feet):**
4.50



## Hole: K10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:14:19 | 36.42 | 30.02 | 955 | 1.07 | 0.13 | 52.2 |
| 4/29/2015 10:14:19 | 36.75 | 30.35 | 957 | 1.06 | 0.15 | 52.4 |
| 4/29/2015 10:14:20 | 37.07 | 30.67 | 957 | 1.06 | 0.15 | 52.4 |
| 4/29/2015 10:14:20 | 37.40 | 31.00 | 952 | 1.06 | 0.13 | 52.0 |
| 4/29/2015 10:14:20 | 37.73 | 31.33 | 962 | 1.07 | 0.13 | 52.6 |
| 4/29/2015 10:14:21 | 38.06 | 31.66 | 962 | 1.07 | 0.13 | 52.6 |
| 4/29/2015 10:14:21 | 38.39 | 31.99 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 10:14:21 | 38.71 | 32.31 | 954 | 1.07 | 0.13 | 52.2 |
| 4/29/2015 10:14:22 | 39.04 | 32.64 | 957 | 1.07 | 0.13 | 52.3 |
| 4/29/2015 10:14:23 | 39.37 | 32.97 | 957 | 1.07 | 0.13 | 52.3 |
| 4/29/2015 10:14:32 | 39.70 | 33.30 | 58 | 1.15 | 0.66 | 3.2 |
| 4/29/2015 10:14:37 | 40.03 | 33.63 | 40 | 1.14 | 1.03 | 2.2 |
| 4/29/2015 10:14:37 | 40.35 | 33.95 | 134 | 1.11 | 1.02 | 7.3 |
| 4/29/2015 10:14:39 | 40.68 | 34.28 | 293 | 1.13 | 1.05 | 16.0 |
| 4/29/2015 10:14:40 | 41.01 | 34.61 | 225 | 1.11 | 1.12 | 12.3 |
| 4/29/2015 10:14:42 | 41.34 | 34.94 | 251 | 1.09 | 1.14 | 13.7 |
| 4/29/2015 10:14:44 | 41.67 | 35.27 | 235 | 1.13 | 0.76 | 12.8 |
| 4/29/2015 10:14:46 | 41.99 | 35.59 | 206 | 1.09 | 1.18 | 11.3 |
| 4/29/2015 10:14:48 | 42.32 | 35.92 | 127 | 1.11 | 1.23 | 6.9 |
| 4/29/2015 10:14:51 | 42.65 | 36.25 | 139 | 1.12 | 1.02 | 7.6 |
| 4/29/2015 10:14:58 | 42.98 | 36.58 | 49 | 2.01 | 1.34 | 2.7 |
| 4/29/2015 10:15:02 | 43.31 | 36.91 | 100 | 1.07 | 1.07 | 5.4 |
| 4/29/2015 10:15:09 | 43.64 | 37.24 | 57 | 1.12 | 1.01 | 3.1 |
| 4/29/2015 10:15:13 | 43.96 | 37.56 | 81 | 1.05 | 1.17 | 4.4 |
| 4/29/2015 10:15:18 | 44.29 | 37.89 | 61 | 1.12 | 0.90 | 3.3 |
| 4/29/2015 10:15:28 | 44.62 | 38.22 | 38 | 1.01 | 0.93 | 2.1 |
| 4/29/2015 10:15:38 | 44.95 | 38.55 | 34 | 1.05 | 0.82 | 1.9 |
| 4/29/2015 10:15:46 | 45.28 | 38.88 | 41 | 1.00 | 0.97 | 2.2 |
| 4/29/2015 10:15:48 | 45.36 | 38.96 | 49 | 0.61 | 1.32 | 2.7 |

## K10 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:13:06

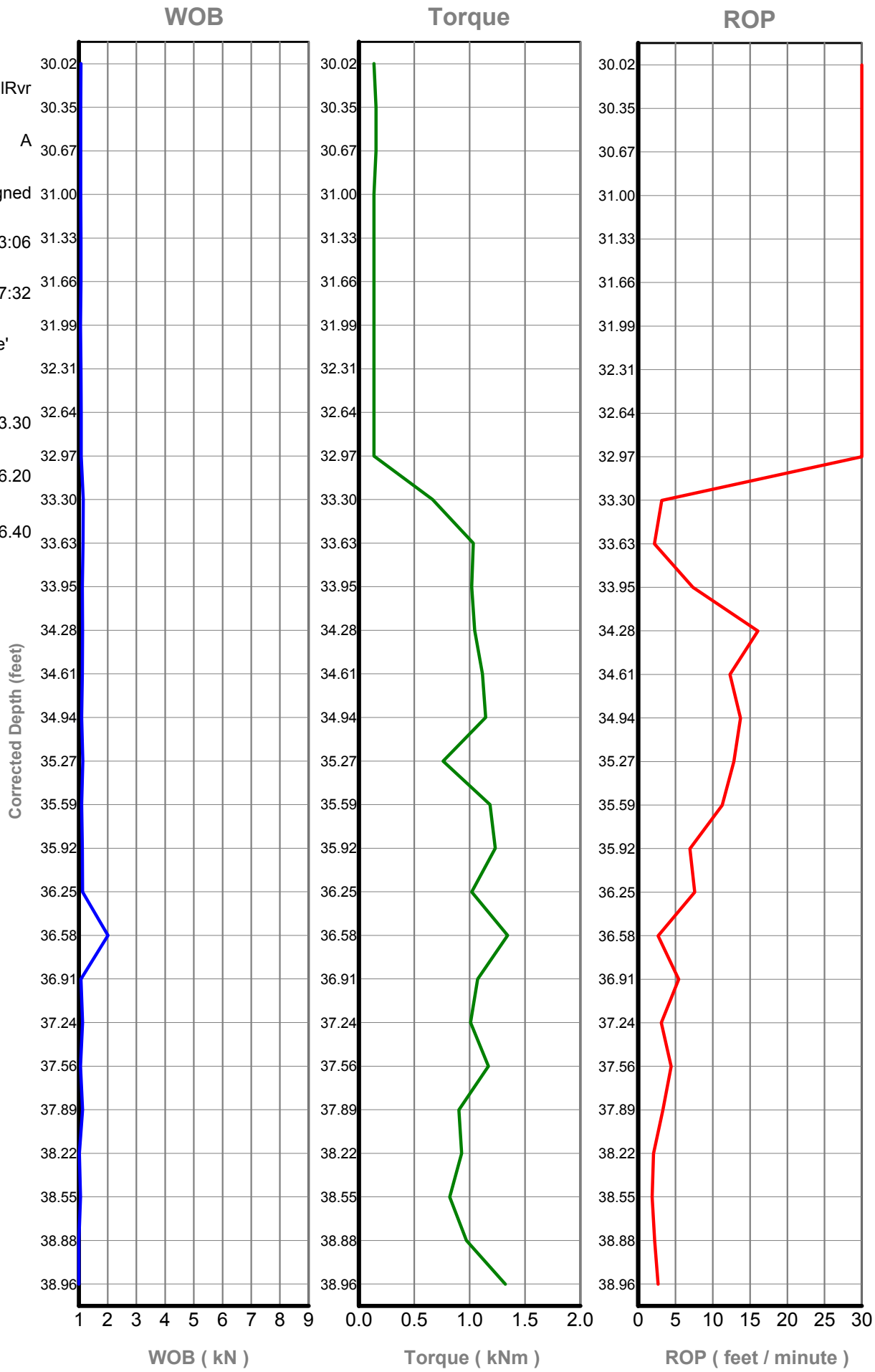
**End Date:**
4/29/2015 10:17:32

**Operator Note:**
'6.4 6.4 a Auto Complete'

**Northing:**
362,283.30

**Easting:**
244,836.20

**Tide (feet):**
6.40



## Hole: K100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:47:50 | 32.81 | 30.31 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:47:50 | 33.14 | 30.64 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:47:50 | 33.46 | 30.96 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:47:51 | 33.79 | 31.29 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:47:51 | 34.12 | 31.62 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:47:51 | 34.45 | 31.95 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 2:47:52 | 34.78 | 32.28 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 2:47:52 | 35.11 | 32.61 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:47:52 | 35.43 | 32.93 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:47:52 | 35.76 | 33.26 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:47:53 | 36.09 | 33.59 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:53 | 36.42 | 33.92 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:53 | 36.75 | 34.25 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:47:54 | 37.07 | 34.57 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:47:54 | 37.40 | 34.90 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:47:54 | 37.73 | 35.23 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 2:47:55 | 38.06 | 35.56 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 2:47:55 | 38.39 | 35.89 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:47:55 | 38.71 | 36.21 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:47:56 | 39.04 | 36.54 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:47:56 | 39.37 | 36.87 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:56 | 39.70 | 37.20 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:56 | 40.03 | 37.53 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:47:57 | 40.35 | 37.85 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:57 | 40.68 | 38.18 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:57 | 41.01 | 38.51 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:47:58 | 41.34 | 38.84 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:47:58 | 41.67 | 39.17 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:47:58 | 41.99 | 39.49 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:47:59 | 42.32 | 39.82 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:47:59 | 42.65 | 40.15 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:47:59 | 42.98 | 40.48 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:48:00 | 43.31 | 40.81 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:48:00 | 43.64 | 41.14 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:48:00 | 43.96 | 41.46 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:48:00 | 44.29 | 41.79 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:01 | 44.62 | 42.12 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:02 | 44.95 | 42.45 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:02 | 45.28 | 42.78 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:02 | 45.60 | 43.10 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:03 | 45.93 | 43.43 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:48:03 | 46.26 | 43.76 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:48:03 | 46.59 | 44.09 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:48:12 | 46.92 | 44.42 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 2:48:12 | 47.24 | 44.74 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 2:48:13 | 47.57 | 45.07 | 308 | 1.14 | 0.29 | 16.8 |
| 4/30/2015 2:48:21 | 47.90 | 45.40 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 2:48:27 | 48.23 | 45.73 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 2:48:33 | 48.56 | 46.06 | 52 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 2:48:41 | 48.88 | 46.38 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 2:48:50 | 49.21 | 46.71 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 2:48:52 | 49.29 | 46.79 | 40 | 1.14 | 0.29 | 2.2 |

## K100 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:46:49

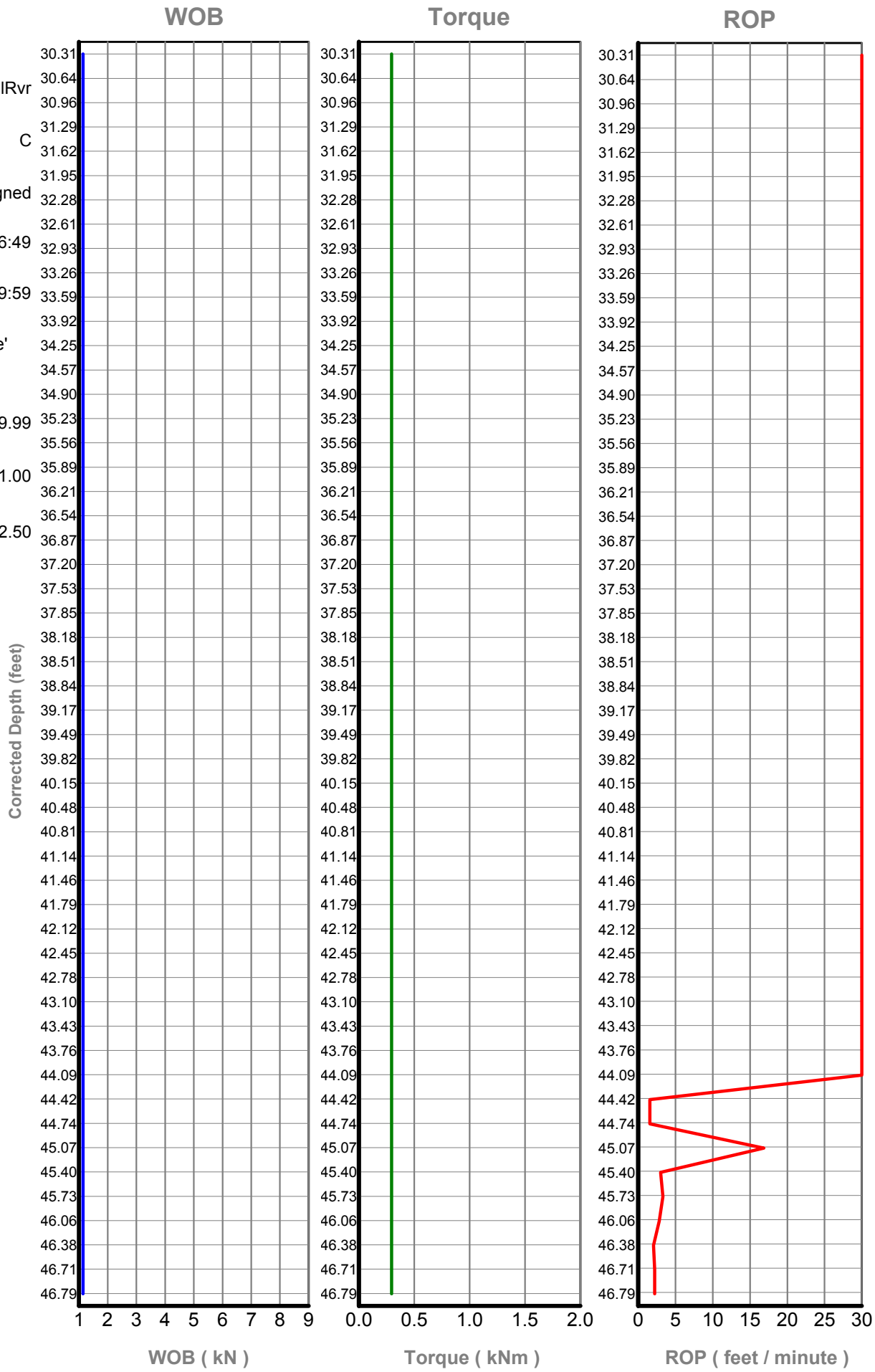
**End Date:**
4/30/2015 2:49:59

**Operator Note:**
'2.5 2.7 c Auto Complete'

**Northing:**
362,299.99

**Easting:**
245,381.00

**Tide (feet):**
2.50



## Hole: K1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:25:06 | 32.81 | 30.21 | 873 | 1.17 | 0.15 | 47.7 |
| 4/30/2015 15:25:06 | 33.14 | 30.54 | 876 | 0.96 | 0.15 | 47.9 |
| 4/30/2015 15:25:07 | 33.46 | 30.86 | 852 | 1.15 | 0.15 | 46.6 |
| 4/30/2015 15:25:08 | 33.79 | 31.19 | 819 | 1.11 | 0.14 | 44.8 |
| 4/30/2015 15:25:08 | 34.12 | 31.52 | 816 | 1.12 | 0.15 | 44.6 |
| 4/30/2015 15:25:09 | 34.45 | 31.85 | 816 | 1.12 | 0.15 | 44.6 |
| 4/30/2015 15:25:09 | 34.78 | 32.18 | 831 | 1.14 | 0.15 | 45.5 |
| 4/30/2015 15:25:09 | 35.11 | 32.51 | 821 | 1.13 | 0.15 | 44.9 |
| 4/30/2015 15:25:10 | 35.43 | 32.83 | 856 | 1.12 | 0.15 | 46.8 |
| 4/30/2015 15:25:10 | 35.76 | 33.16 | 856 | 1.12 | 0.15 | 46.8 |
| 4/30/2015 15:25:10 | 36.09 | 33.49 | 879 | 1.14 | 0.15 | 48.1 |
| 4/30/2015 15:25:11 | 36.42 | 33.82 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:11 | 36.75 | 34.15 | 882 | 1.05 | 0.15 | 48.2 |
| 4/30/2015 15:25:12 | 37.07 | 34.47 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 15:25:12 | 37.40 | 34.80 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 15:25:12 | 37.73 | 35.13 | 879 | 1.14 | 0.15 | 48.1 |
| 4/30/2015 15:25:13 | 38.06 | 35.46 | 887 | 1.13 | 0.15 | 48.5 |
| 4/30/2015 15:25:13 | 38.39 | 35.79 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:14 | 38.71 | 36.11 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:14 | 39.04 | 36.44 | 888 | 1.13 | 0.15 | 48.5 |
| 4/30/2015 15:25:14 | 39.37 | 36.77 | 885 | 1.17 | 0.14 | 48.4 |
| 4/30/2015 15:25:31 | 39.70 | 37.10 | 29 | 1.10 | 0.14 | 1.6 |
| 4/30/2015 15:25:31 | 40.03 | 37.43 | 200 | 1.12 | 0.14 | 10.9 |
| 4/30/2015 15:25:32 | 40.35 | 37.75 | 200 | 1.12 | 0.14 | 10.9 |
| 4/30/2015 15:25:32 | 40.68 | 38.08 | 372 | 1.11 | 0.15 | 20.3 |
| 4/30/2015 15:25:32 | 41.01 | 38.41 | 560 | 1.13 | 0.15 | 30.6 |
| 4/30/2015 15:25:33 | 41.34 | 38.74 | 734 | 1.13 | 0.15 | 40.1 |
| 4/30/2015 15:25:33 | 41.67 | 39.07 | 734 | 1.13 | 0.15 | 40.1 |
| 4/30/2015 15:25:33 | 41.99 | 39.39 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:34 | 42.32 | 39.72 | 871 | 1.12 | 0.15 | 47.6 |
| 4/30/2015 15:25:34 | 42.65 | 40.05 | 871 | 1.11 | 0.15 | 47.6 |
| 4/30/2015 15:25:35 | 42.98 | 40.38 | 871 | 1.11 | 0.15 | 47.6 |
| 4/30/2015 15:25:35 | 43.31 | 40.71 | 891 | 1.12 | 0.15 | 48.7 |
| 4/30/2015 15:25:35 | 43.64 | 41.04 | 880 | 1.12 | 0.15 | 48.1 |
| 4/30/2015 15:25:36 | 43.96 | 41.36 | 883 | 1.12 | 0.15 | 48.3 |
| 4/30/2015 15:25:36 | 44.29 | 41.69 | 883 | 1.14 | 0.15 | 48.3 |
| 4/30/2015 15:25:37 | 44.62 | 42.02 | 883 | 1.14 | 0.15 | 48.3 |
| 4/30/2015 15:25:37 | 44.95 | 42.35 | 909 | 1.13 | 0.15 | 49.7 |
| 4/30/2015 15:25:37 | 45.28 | 42.68 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 15:25:38 | 45.60 | 43.00 | 890 | 1.12 | 0.15 | 48.7 |
| 4/30/2015 15:25:39 | 45.93 | 43.33 | 890 | 1.12 | 0.15 | 48.7 |
| 4/30/2015 15:25:39 | 46.26 | 43.66 | 893 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 15:25:39 | 46.59 | 43.99 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 15:25:40 | 46.92 | 44.32 | 882 | 1.12 | 0.15 | 48.2 |
| 4/30/2015 15:25:40 | 47.24 | 44.64 | 882 | 1.12 | 0.15 | 48.2 |
| 4/30/2015 15:25:40 | 47.57 | 44.97 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 15:25:41 | 47.90 | 45.30 | 887 | 1.14 | 0.15 | 48.5 |
| 4/30/2015 15:25:41 | 48.23 | 45.63 | 887 | 1.11 | 0.15 | 48.5 |
| 4/30/2015 15:25:42 | 48.56 | 45.96 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:42 | 48.88 | 46.28 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:25:42 | 49.21 | 46.61 | 890 | 1.11 | 0.15 | 48.7 |
| 4/30/2015 15:25:43 | 49.54 | 46.94 | 887 | 1.17 | 0.15 | 48.5 |
| 4/30/2015 15:25:43 | 49.87 | 47.27 | 887 | 1.16 | 0.16 | 48.5 |
| 4/30/2015 15:25:44 | 50.20 | 47.60 | 851 | 0.41 | 0.10 | 46.5 |
| 4/30/2015 15:26:00 | 50.53 | 47.93 | 87 | 1.19 | 0.84 | 4.8 |
| 4/30/2015 15:26:01 | 50.85 | 48.25 | 152 | 1.19 | 0.87 | 8.3 |
| 4/30/2015 15:26:04 | 51.18 | 48.58 | 94 | 1.19 | 0.97 | 5.2 |
| 4/30/2015 15:26:10 | 51.51 | 48.91 | 63 | 1.19 | 1.08 | 3.4 |
| 4/30/2015 15:26:14 | 51.84 | 49.24 | 79 | 1.47 | 0.89 | 4.3 |
| 4/30/2015 15:26:16 | 52.17 | 49.57 | 99 | 1.92 | 1.01 | 5.4 |
| 4/30/2015 15:26:37 | 52.49 | 49.89 | 21 | 0.39 | 0.82 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 15:26:55 | 52.82 | 50.22 | 6 | 1.09 | 0.78 | 0.3 |
| 4/30/2015 | 15:27:26 | 53.15 | 50.55 | 0 | 1.23 | 0.69 | 0.0 |
| 4/30/2015 | 15:27:31 | 53.48 | 50.88 | 0 | 1.88 | 0.60 | 0.0 |
| 4/30/2015 | 15:27:33 | 53.81 | 51.21 | 92 | 1.02 | 0.98 | 5.0 |
| 4/30/2015 | 15:27:36 | 54.12 | 51.52 | 152 | 1.23 | 0.97 | 8.3 |

## K1000 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 15:23:35

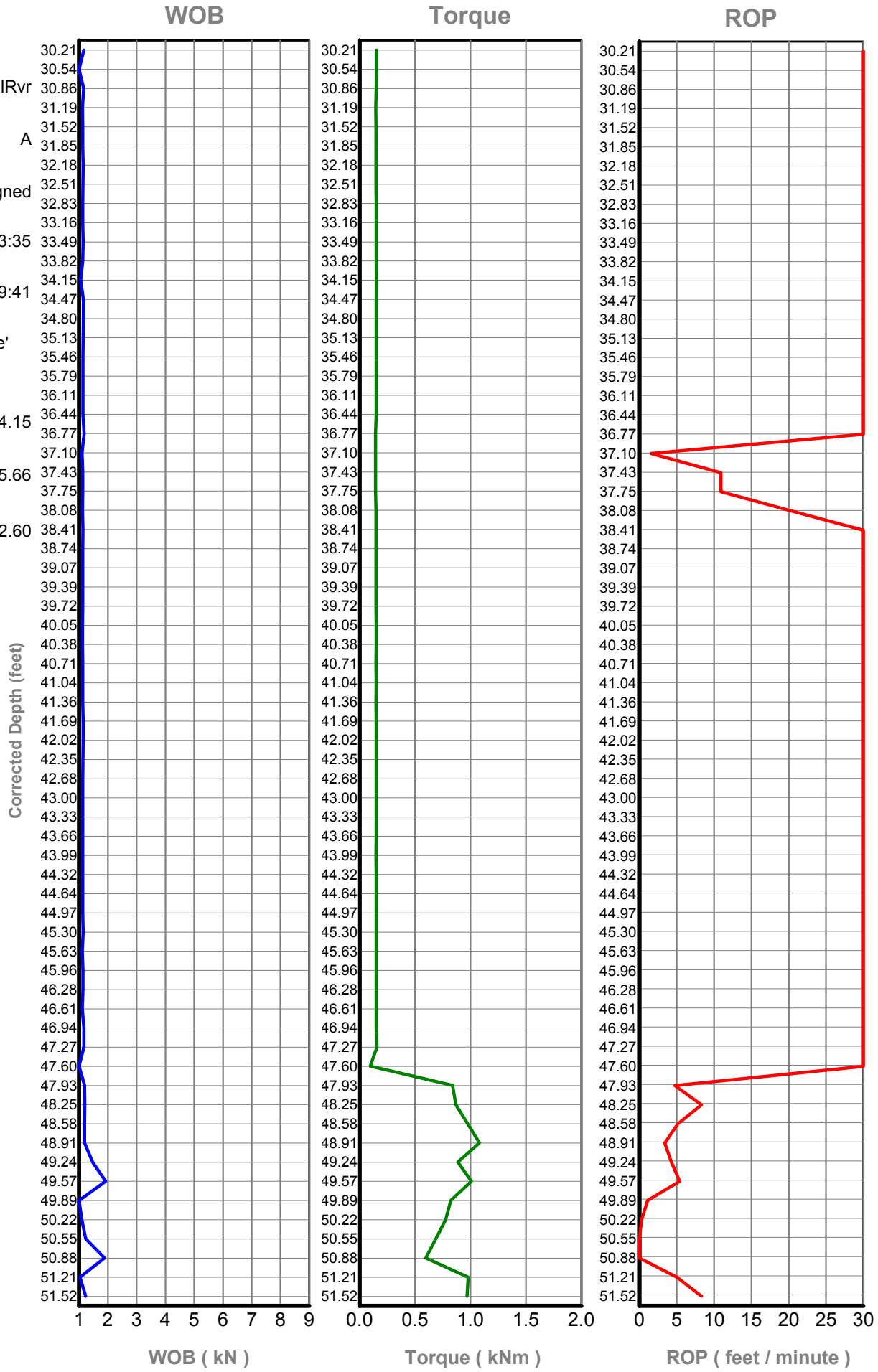
**End Date:**
4/30/2015 15:29:41

**Operator Note:**
'2.6 3.2 a Auto Complete'

**Northing:**
362,524.15

**Easting:**
245,295.66

**Tide (feet):**
2.60



## Hole: K1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:25:11 | 32.81 | 30.01 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 15:25:12 | 33.14 | 30.34 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 15:25:12 | 33.46 | 30.66 | 1,190 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 15:25:12 | 33.79 | 30.99 | 1,210 | 0.28 | 0.38 | 66.2 |
| 4/30/2015 15:25:13 | 34.12 | 31.32 | 1,210 | 0.28 | 0.38 | 66.2 |
| 4/30/2015 15:25:13 | 34.45 | 31.65 | 1,193 | 0.27 | 0.37 | 65.3 |
| 4/30/2015 15:25:13 | 34.78 | 31.98 | 1,193 | 0.27 | 0.37 | 65.3 |
| 4/30/2015 15:25:13 | 35.11 | 32.31 | 1,193 | 0.28 | 0.36 | 65.3 |
| 4/30/2015 15:25:14 | 35.43 | 32.63 | 1,193 | 0.28 | 0.36 | 65.3 |
| 4/30/2015 15:25:14 | 35.76 | 32.96 | 1,202 | 0.37 | 0.37 | 65.7 |
| 4/30/2015 15:25:14 | 36.09 | 33.29 | 1,202 | 0.37 | 0.37 | 65.7 |
| 4/30/2015 15:25:14 | 36.42 | 33.62 | 1,182 | 0.31 | 0.38 | 64.6 |
| 4/30/2015 15:25:15 | 36.75 | 33.95 | 1,222 | 0.25 | 0.38 | 66.8 |
| 4/30/2015 15:25:15 | 37.07 | 34.27 | 1,222 | 0.25 | 0.38 | 66.8 |
| 4/30/2015 15:25:15 | 37.40 | 34.60 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 15:25:16 | 37.73 | 34.93 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 15:25:16 | 38.06 | 35.26 | 1,189 | 0.29 | 0.30 | 65.0 |
| 4/30/2015 15:25:16 | 38.39 | 35.59 | 1,189 | 0.29 | 0.30 | 65.0 |
| 4/30/2015 15:25:16 | 38.71 | 35.91 | 1,215 | 0.28 | 0.37 | 66.4 |
| 4/30/2015 15:25:17 | 39.04 | 36.24 | 1,204 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 15:25:17 | 39.37 | 36.57 | 1,204 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 15:25:17 | 39.70 | 36.90 | 1,210 | 0.29 | 0.36 | 66.2 |
| 4/30/2015 15:25:18 | 40.03 | 37.23 | 1,210 | 0.29 | 0.36 | 66.2 |
| 4/30/2015 15:25:18 | 40.35 | 37.55 | 1,192 | 0.28 | 0.38 | 65.2 |
| 4/30/2015 15:25:18 | 40.68 | 37.88 | 1,192 | 0.28 | 0.38 | 65.2 |
| 4/30/2015 15:25:18 | 41.01 | 38.21 | 1,221 | 0.27 | 0.37 | 66.8 |
| 4/30/2015 15:25:19 | 41.34 | 38.54 | 1,221 | 0.27 | 0.37 | 66.8 |
| 4/30/2015 15:25:19 | 41.67 | 38.87 | 1,219 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 15:25:20 | 41.99 | 39.19 | 1,219 | 0.29 | 0.36 | 66.7 |
| 4/30/2015 15:25:20 | 42.32 | 39.52 | 1,219 | 0.29 | 0.36 | 66.7 |
| 4/30/2015 15:25:20 | 42.65 | 39.85 | 1,203 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 15:25:21 | 42.98 | 40.18 | 1,203 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 15:25:21 | 43.31 | 40.51 | 1,203 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 15:25:21 | 43.64 | 40.84 | 1,203 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 15:25:21 | 43.96 | 41.16 | 1,236 | 0.28 | 0.37 | 67.6 |
| 4/30/2015 15:25:22 | 44.29 | 41.49 | 1,222 | 0.28 | 0.36 | 66.8 |
| 4/30/2015 15:25:22 | 44.62 | 41.82 | 1,222 | 0.28 | 0.36 | 66.8 |
| 4/30/2015 15:25:22 | 44.95 | 42.15 | 1,228 | 0.28 | 0.38 | 67.2 |
| 4/30/2015 15:25:23 | 45.28 | 42.48 | 1,228 | 0.28 | 0.38 | 67.2 |
| 4/30/2015 15:25:23 | 45.60 | 42.80 | 1,208 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 15:25:23 | 45.93 | 43.13 | 1,208 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 15:25:23 | 46.26 | 43.46 | 1,208 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 15:25:24 | 46.59 | 43.79 | 1,208 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 15:25:24 | 46.92 | 44.12 | 1,208 | 0.28 | 0.36 | 66.0 |
| 4/30/2015 15:25:24 | 47.24 | 44.44 | 1,206 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 15:25:25 | 47.57 | 44.77 | 1,206 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 15:25:25 | 47.90 | 45.10 | 1,206 | 0.29 | 0.38 | 66.0 |
| 4/30/2015 15:25:25 | 48.23 | 45.43 | 1,206 | 0.29 | 0.38 | 66.0 |
| 4/30/2015 15:25:25 | 48.56 | 45.76 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 15:25:26 | 48.88 | 46.08 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 15:25:26 | 49.21 | 46.41 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 15:25:26 | 49.54 | 46.74 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 15:25:27 | 49.87 | 47.07 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 15:25:27 | 50.20 | 47.40 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 15:25:27 | 50.53 | 47.73 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 15:25:27 | 50.85 | 48.05 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 15:25:28 | 51.18 | 48.38 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 15:25:28 | 51.51 | 48.71 | 1,176 | 0.28 | 0.42 | 64.3 |
| 4/30/2015 15:25:38 | 51.84 | 49.04 | 71 | 2.65 | 0.45 | 3.9 |
| 4/30/2015 15:25:39 | 52.17 | 49.37 | 219 | 2.89 | 0.43 | 12.0 |
| 4/30/2015 15:25:40 | 52.49 | 49.69 | 313 | 2.95 | 0.44 | 17.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 15:25:46 | 52.82 | 50.02 | 109 | 2.76 | 0.43 | 6.0 |
| 4/30/2015 | 15:25:46 | 53.15 | 50.35 | 172 | 3.05 | 0.43 | 9.4 |
| 4/30/2015 | 15:25:54 | 53.48 | 50.68 | 0 | 2.59 | 0.45 | 0.0 |
| 4/30/2015 | 15:25:56 | 53.81 | 51.01 | 149 | 2.65 | 0.47 | 8.2 |
| 4/30/2015 | 15:25:59 | 54.13 | 51.33 | 126 | 2.67 | 0.46 | 6.9 |
| 4/30/2015 | 15:26:00 | 54.46 | 51.66 | 156 | 2.92 | 0.44 | 8.5 |
| 4/30/2015 | 15:26:02 | 54.79 | 51.99 | 242 | 3.29 | 0.44 | 13.3 |
| 4/30/2015 | 15:26:11 | 55.12 | 52.32 | 55 | 2.80 | 0.46 | 3.0 |
| 4/30/2015 | 15:26:13 | 55.45 | 52.65 | 136 | 3.05 | 0.45 | 7.4 |
| 4/30/2015 | 15:26:24 | 55.77 | 52.97 | 89 | 2.90 | 0.46 | 4.9 |
| 4/30/2015 | 15:27:15 | 56.10 | 53.30 | 38 | 2.70 | 0.47 | 2.1 |
| 4/30/2015 | 15:27:22 | 56.43 | 53.63 | 46 | 2.67 | 0.47 | 2.5 |
| 4/30/2015 | 15:27:27 | 56.76 | 53.96 | 103 | 2.75 | 0.46 | 5.6 |
| 4/30/2015 | 15:27:33 | 57.09 | 54.29 | 60 | 2.71 | 0.46 | 3.3 |
| 4/30/2015 | 15:27:40 | 57.41 | 54.61 | 43 | 2.74 | 0.47 | 2.4 |
| 4/30/2015 | 15:27:48 | 57.74 | 54.94 | 52 | 2.70 | 0.47 | 2.8 |
| 4/30/2015 | 15:27:54 | 58.07 | 55.27 | 32 | 2.73 | 0.45 | 1.8 |
| 4/30/2015 | 15:27:55 | 58.23 | 55.43 | 67 | 3.19 | 0.46 | 3.7 |

## K1001 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 15:19:36

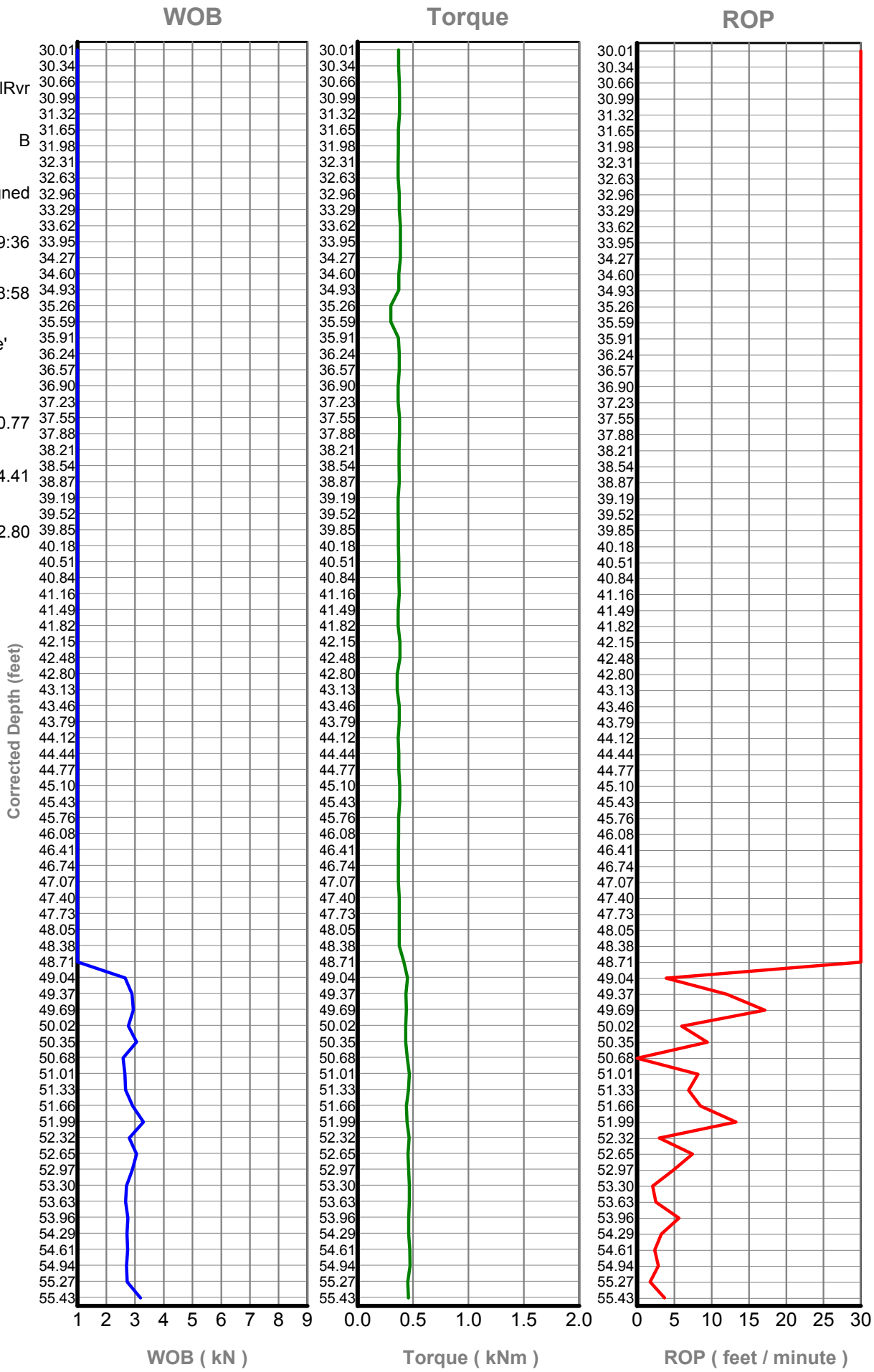
**End Date:**
4/30/2015 15:28:58

**Operator Note:**
'2.8 3.2 b Auto Complete'

**Northing:**
362,570.77

**Easting:**
245,354.41

**Tide (feet):**
2.80



## Hole: K1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:24:45 | 32.81 | 30.21 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 15:24:46 | 33.14 | 30.54 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 15:24:46 | 33.46 | 30.86 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 15:24:46 | 33.79 | 31.19 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:47 | 34.12 | 31.52 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 15:24:47 | 34.45 | 31.85 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 15:24:47 | 34.78 | 32.18 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 15:24:48 | 35.11 | 32.51 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 15:24:48 | 35.43 | 32.83 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:48 | 35.76 | 33.16 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:49 | 36.09 | 33.49 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:49 | 36.42 | 33.82 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:49 | 36.75 | 34.15 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:50 | 37.07 | 34.47 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:50 | 37.40 | 34.80 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:51 | 37.73 | 35.13 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 15:24:51 | 38.06 | 35.46 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 15:24:51 | 38.39 | 35.79 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:52 | 38.71 | 36.11 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:52 | 39.04 | 36.44 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:52 | 39.37 | 36.77 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:53 | 39.70 | 37.10 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:53 | 40.03 | 37.43 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:53 | 40.35 | 37.75 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:53 | 40.68 | 38.08 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:54 | 41.01 | 38.41 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 15:24:54 | 41.34 | 38.74 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 15:24:54 | 41.67 | 39.07 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:55 | 41.99 | 39.39 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:55 | 42.32 | 39.72 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 15:24:55 | 42.65 | 40.05 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 15:24:56 | 42.98 | 40.38 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 15:24:56 | 43.31 | 40.71 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 15:24:56 | 43.64 | 41.04 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 15:24:57 | 43.96 | 41.36 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 15:24:57 | 44.29 | 41.69 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 15:24:57 | 44.62 | 42.02 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 15:24:58 | 44.95 | 42.35 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 15:24:58 | 45.28 | 42.68 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:24:58 | 45.60 | 43.00 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:24:58 | 45.93 | 43.33 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:24:59 | 46.26 | 43.66 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 15:24:59 | 46.59 | 43.99 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 15:24:59 | 46.92 | 44.32 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 15:25:09 | 47.24 | 44.64 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 15:25:10 | 47.57 | 44.97 | 94 | 1.14 | 0.29 | 5.1 |
| 4/30/2015 15:25:12 | 47.90 | 45.30 | 216 | 1.14 | 0.29 | 11.8 |
| 4/30/2015 15:25:13 | 48.23 | 45.63 | 279 | 1.14 | 0.29 | 15.3 |
| 4/30/2015 15:25:16 | 48.56 | 45.96 | 139 | 1.14 | 0.29 | 7.6 |
| 4/30/2015 15:25:39 | 48.88 | 46.28 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 15:25:43 | 49.21 | 46.61 | 99 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 15:25:48 | 49.54 | 46.94 | 63 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 15:25:55 | 49.87 | 47.27 | 48 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 15:26:04 | 50.20 | 47.60 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 15:26:09 | 50.53 | 47.93 | 63 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 15:26:16 | 50.85 | 48.25 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 15:26:23 | 51.18 | 48.58 | 48 | 1.14 | 0.29 | 2.6 |

## K1002 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 15:23:14

**End Date:**
4/30/2015 15:28:28

**Operator Note:**
'2.6 3.2 c Auto Complete'

**Northing:**
362,617.40

**Easting:**
245,413.16

**Tide (feet):**
2.60



## Hole: K1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:08:16 | 33.14 | 30.24 | 895 | 1.15 | 0.15 | 48.9 |
| 4/30/2015 15:08:17 | 33.46 | 30.56 | 910 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 15:08:17 | 33.79 | 30.89 | 910 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 15:08:17 | 34.12 | 31.22 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 15:08:18 | 34.45 | 31.55 | 894 | 1.15 | 0.15 | 48.9 |
| 4/30/2015 15:08:18 | 34.78 | 31.88 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:19 | 35.11 | 32.21 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:19 | 35.43 | 32.53 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 15:08:19 | 35.76 | 32.86 | 896 | 1.12 | 0.15 | 49.0 |
| 4/30/2015 15:08:20 | 36.09 | 33.19 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:20 | 36.42 | 33.52 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:20 | 36.75 | 33.85 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 15:08:21 | 37.07 | 34.17 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:21 | 37.40 | 34.50 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:22 | 37.73 | 34.83 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:22 | 38.06 | 35.16 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 15:08:22 | 38.39 | 35.49 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 15:08:23 | 38.71 | 35.81 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:23 | 39.04 | 36.14 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:23 | 39.37 | 36.47 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:24 | 39.70 | 36.80 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 15:08:24 | 40.03 | 37.13 | 907 | 1.15 | 0.15 | 49.6 |
| 4/30/2015 15:08:25 | 40.35 | 37.45 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 15:08:25 | 40.68 | 37.78 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 15:08:25 | 41.01 | 38.11 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 15:08:26 | 41.34 | 38.44 | 888 | 1.14 | 0.15 | 48.6 |
| 4/30/2015 15:08:26 | 41.67 | 38.77 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 15:08:27 | 41.99 | 39.09 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 15:08:27 | 42.32 | 39.42 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:08:28 | 42.65 | 39.75 | 893 | 1.13 | 0.15 | 48.9 |
| 4/30/2015 15:08:28 | 42.98 | 40.08 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 15:08:29 | 43.31 | 40.41 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 15:08:29 | 43.64 | 40.74 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 15:08:29 | 43.96 | 41.06 | 894 | 1.14 | 0.15 | 48.9 |
| 4/30/2015 15:08:30 | 44.29 | 41.39 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 15:08:30 | 44.62 | 41.72 | 886 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:08:31 | 44.95 | 42.05 | 886 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 15:08:31 | 45.28 | 42.38 | 897 | 1.15 | 0.15 | 49.1 |
| 4/30/2015 15:08:31 | 45.60 | 42.70 | 902 | 1.12 | 0.15 | 49.3 |
| 4/30/2015 15:08:32 | 45.93 | 43.03 | 888 | 1.19 | 0.15 | 48.6 |
| 4/30/2015 15:08:32 | 46.26 | 43.36 | 888 | 1.19 | 0.15 | 48.6 |
| 4/30/2015 15:08:50 | 46.59 | 43.69 | 13 | 1.09 | 1.22 | 0.7 |
| 4/30/2015 15:08:55 | 46.92 | 44.02 | 52 | 1.18 | 1.05 | 2.8 |
| 4/30/2015 15:09:02 | 47.24 | 44.34 | 58 | 1.11 | 1.07 | 3.2 |
| 4/30/2015 15:09:09 | 47.57 | 44.67 | 52 | 1.10 | 1.07 | 2.8 |
| 4/30/2015 15:09:15 | 47.90 | 45.00 | 70 | 1.11 | 1.15 | 3.8 |
| 4/30/2015 15:09:16 | 48.02 | 45.12 | 71 | 1.21 | 1.22 | 3.9 |

## K1003 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 15:07:00

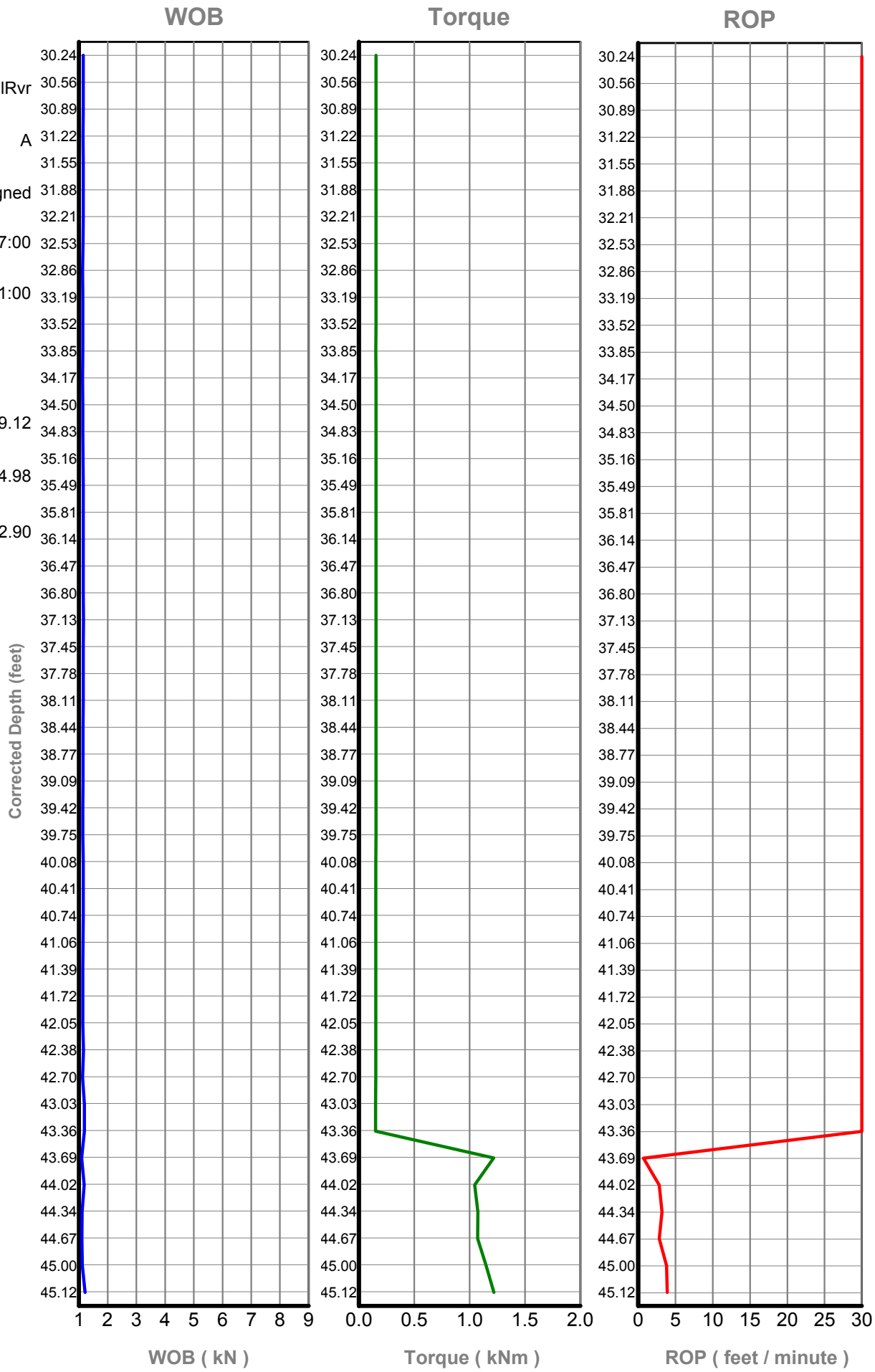
**End Date:**
4/30/2015 15:11:00

**Operator Note:**
'2.9 4.3 a 3.4 a Auto Complete'

**Northing:**
362,669.12

**Easting:**
245,474.98

**Tide (feet):**
2.90



## Hole: K1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:07:18 | 33.14 | 30.04 | 1,123 | 0.29 | 0.37 | 61.4 |
| 4/30/2015 15:07:18 | 33.46 | 30.36 | 1,130 | 0.29 | 0.38 | 61.8 |
| 4/30/2015 15:07:19 | 33.79 | 30.69 | 1,130 | 0.28 | 0.39 | 61.8 |
| 4/30/2015 15:07:19 | 34.12 | 31.02 | 1,130 | 0.28 | 0.39 | 61.8 |
| 4/30/2015 15:07:19 | 34.45 | 31.35 | 1,142 | 0.29 | 0.38 | 62.5 |
| 4/30/2015 15:07:20 | 34.78 | 31.68 | 1,142 | 0.29 | 0.38 | 62.5 |
| 4/30/2015 15:07:20 | 35.11 | 32.01 | 1,152 | 0.29 | 0.37 | 63.0 |
| 4/30/2015 15:07:20 | 35.43 | 32.33 | 1,134 | 0.29 | 0.37 | 62.0 |
| 4/30/2015 15:07:21 | 35.76 | 32.66 | 1,134 | 0.29 | 0.37 | 62.0 |
| 4/30/2015 15:07:21 | 36.09 | 32.99 | 1,140 | 0.28 | 0.37 | 62.4 |
| 4/30/2015 15:07:21 | 36.42 | 33.32 | 1,140 | 0.28 | 0.37 | 62.4 |
| 4/30/2015 15:07:21 | 36.75 | 33.65 | 1,153 | 0.28 | 0.38 | 63.1 |
| 4/30/2015 15:07:22 | 37.07 | 33.97 | 1,144 | 0.28 | 0.38 | 62.5 |
| 4/30/2015 15:07:22 | 37.40 | 34.30 | 1,144 | 0.28 | 0.38 | 62.5 |
| 4/30/2015 15:07:22 | 37.73 | 34.63 | 1,146 | 0.29 | 0.38 | 62.7 |
| 4/30/2015 15:07:23 | 38.06 | 34.96 | 1,146 | 0.29 | 0.38 | 62.7 |
| 4/30/2015 15:07:23 | 38.39 | 35.29 | 1,147 | 0.33 | 0.38 | 62.7 |
| 4/30/2015 15:07:23 | 38.71 | 35.61 | 1,118 | 0.28 | 0.38 | 61.1 |
| 4/30/2015 15:07:24 | 39.04 | 35.94 | 1,118 | 0.28 | 0.38 | 61.1 |
| 4/30/2015 15:07:24 | 39.37 | 36.27 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 15:07:24 | 39.70 | 36.60 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 15:07:24 | 40.03 | 36.93 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/30/2015 15:07:25 | 40.35 | 37.25 | 1,130 | 0.35 | 0.38 | 61.8 |
| 4/30/2015 15:07:25 | 40.68 | 37.58 | 1,130 | 0.35 | 0.38 | 61.8 |
| 4/30/2015 15:07:25 | 41.01 | 37.91 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 15:07:26 | 41.34 | 38.24 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 15:07:26 | 41.67 | 38.57 | 1,135 | 0.29 | 0.38 | 62.1 |
| 4/30/2015 15:07:27 | 41.99 | 38.89 | 1,163 | 0.29 | 0.38 | 63.6 |
| 4/30/2015 15:07:27 | 42.32 | 39.22 | 1,163 | 0.29 | 0.38 | 63.6 |
| 4/30/2015 15:07:27 | 42.65 | 39.55 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 15:07:28 | 42.98 | 39.88 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 15:07:28 | 43.31 | 40.21 | 1,160 | 0.29 | 0.38 | 63.4 |
| 4/30/2015 15:07:28 | 43.64 | 40.54 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 15:07:29 | 43.96 | 40.86 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 15:07:29 | 44.29 | 41.19 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/30/2015 15:07:29 | 44.62 | 41.52 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/30/2015 15:07:29 | 44.95 | 41.85 | 1,149 | 0.29 | 0.37 | 62.8 |
| 4/30/2015 15:07:30 | 45.28 | 42.18 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/30/2015 15:07:30 | 45.60 | 42.50 | 1,165 | 0.29 | 0.37 | 63.7 |
| 4/30/2015 15:07:30 | 45.93 | 42.83 | 1,131 | 0.28 | 0.37 | 61.9 |
| 4/30/2015 15:07:31 | 46.26 | 43.16 | 1,131 | 0.28 | 0.37 | 61.9 |
| 4/30/2015 15:07:31 | 46.59 | 43.49 | 1,131 | 0.29 | 0.37 | 61.9 |
| 4/30/2015 15:07:31 | 46.92 | 43.82 | 1,131 | 0.29 | 0.37 | 61.9 |
| 4/30/2015 15:07:39 | 47.24 | 44.14 | 6 | 3.39 | 0.44 | 0.3 |
| 4/30/2015 15:07:46 | 47.57 | 44.47 | 44 | 3.03 | 0.47 | 2.4 |
| 4/30/2015 15:07:53 | 47.90 | 44.80 | 51 | 3.15 | 0.46 | 2.8 |
| 4/30/2015 15:08:01 | 48.23 | 45.13 | 52 | 2.72 | 0.47 | 2.9 |
| 4/30/2015 15:08:07 | 48.56 | 45.46 | 52 | 3.05 | 0.47 | 2.8 |
| 4/30/2015 15:08:09 | 48.62 | 45.52 | 55 | 2.80 | 0.47 | 3.0 |

## K1004 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 14:47:12

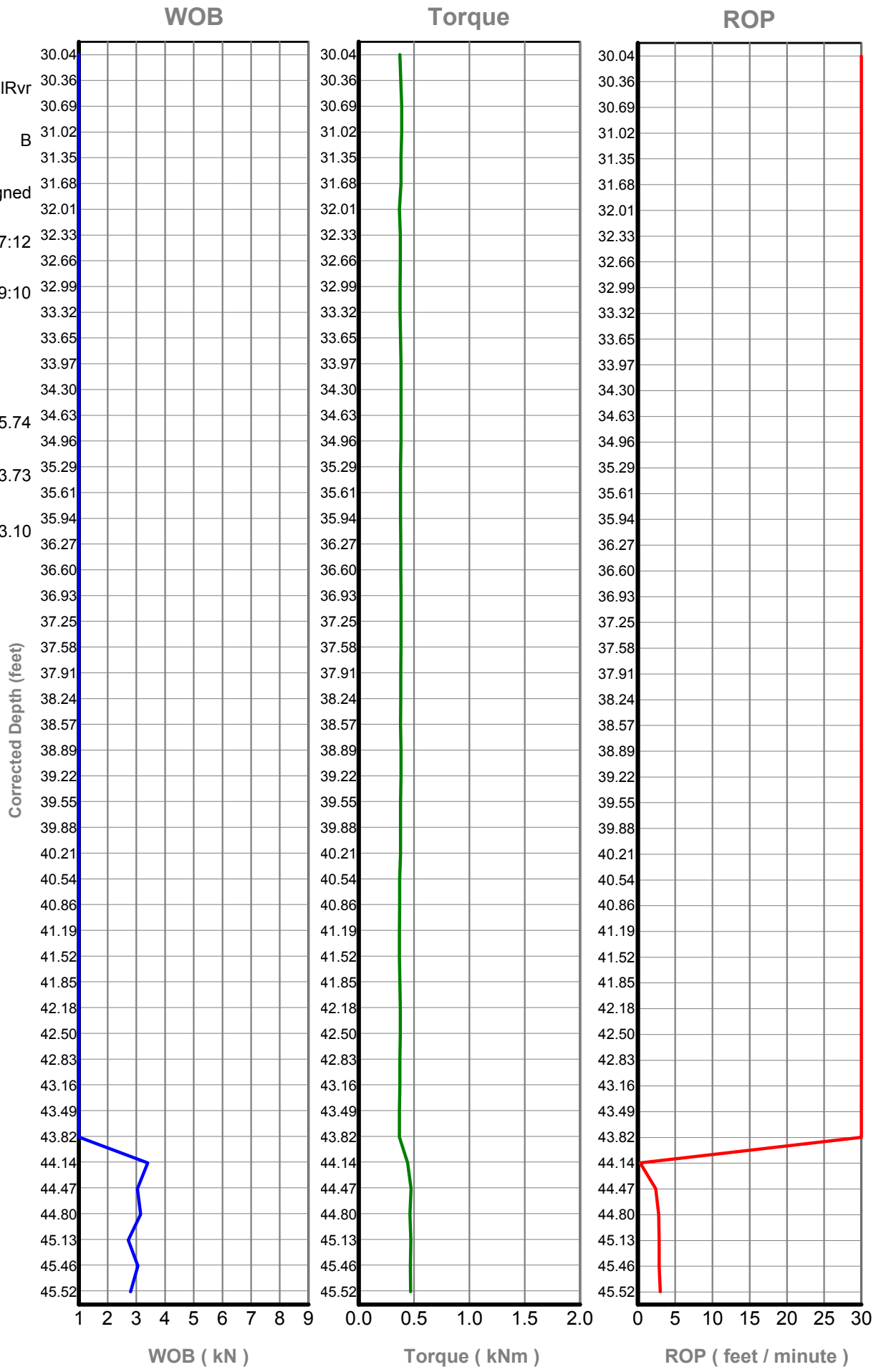
**End Date:**
4/30/2015 15:09:10

**Operator Note:**
'3.1 3.4 b Rock'

**Northing:**
362,715.74

**Easting:**
245,533.73

**Tide (feet):**
3.10



## Hole: K1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:06:59 | 33.14 | 30.24 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 15:06:59 | 33.46 | 30.56 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:00 | 33.79 | 30.89 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:00 | 34.12 | 31.22 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:00 | 34.45 | 31.55 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 15:07:01 | 34.78 | 31.88 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 15:07:01 | 35.11 | 32.21 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 15:07:01 | 35.43 | 32.53 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 15:07:01 | 35.76 | 32.86 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 15:07:02 | 36.09 | 33.19 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 15:07:02 | 36.42 | 33.52 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 15:07:02 | 36.75 | 33.85 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 15:07:03 | 37.07 | 34.17 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 15:07:03 | 37.40 | 34.50 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:03 | 37.73 | 34.83 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:04 | 38.06 | 35.16 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:04 | 38.39 | 35.49 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:04 | 38.71 | 35.81 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:05 | 39.04 | 36.14 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:05 | 39.37 | 36.47 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:06 | 39.70 | 36.80 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:05 | 40.03 | 37.13 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 15:07:06 | 40.35 | 37.45 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:07 | 40.68 | 37.78 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 15:07:07 | 41.01 | 38.11 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 15:07:07 | 41.34 | 38.44 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 15:07:07 | 41.67 | 38.77 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:08 | 41.99 | 39.09 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:08 | 42.32 | 39.42 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:08 | 42.65 | 39.75 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:09 | 42.98 | 40.08 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 15:07:09 | 43.31 | 40.41 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 15:07:09 | 43.64 | 40.74 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 15:07:10 | 43.96 | 41.06 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 15:07:10 | 44.29 | 41.39 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 15:07:10 | 44.62 | 41.72 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:11 | 44.95 | 42.05 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 15:07:11 | 45.28 | 42.38 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 15:07:11 | 45.60 | 42.70 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 15:07:12 | 45.93 | 43.03 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 15:07:12 | 46.26 | 43.36 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 15:07:29 | 46.59 | 43.69 | 66 | 1.14 | 0.29 | 3.6 |
| 4/30/2015 15:07:41 | 46.92 | 44.02 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 15:07:50 | 47.24 | 44.34 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 15:07:59 | 47.57 | 44.67 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 15:08:07 | 47.90 | 45.00 | 52 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 15:08:14 | 48.23 | 45.33 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 15:08:21 | 48.51 | 45.61 | 48 | 1.14 | 0.29 | 2.6 |

## K1005 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 15:05:45

**End Date:**
4/30/2015 15:09:38

**Operator Note:**
'2.9 3.4 c Auto Complete'

**Northing:**
362,762.36

**Easting:**
245,592.48

**Tide (feet):**
2.90



## Hole: K1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 14:32:45 | 33.79 | 30.29 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 14:32:45 | 34.12 | 30.62 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 14:32:45 | 34.45 | 30.95 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 14:32:46 | 34.78 | 31.28 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 14:32:46 | 35.11 | 31.61 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:46 | 35.43 | 31.93 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:46 | 35.76 | 32.26 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:47 | 36.09 | 32.59 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 14:32:48 | 36.42 | 32.92 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 14:32:48 | 36.75 | 33.25 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 14:32:48 | 37.07 | 33.57 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 14:32:48 | 37.40 | 33.90 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 14:32:49 | 37.73 | 34.23 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:49 | 38.06 | 34.56 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:49 | 38.39 | 34.89 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:50 | 38.71 | 35.21 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 14:32:50 | 39.04 | 35.54 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 14:32:50 | 39.37 | 35.87 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 14:32:51 | 39.70 | 36.20 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 14:32:51 | 40.03 | 36.53 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 14:32:51 | 40.35 | 36.85 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 14:32:51 | 40.68 | 37.18 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 14:32:52 | 41.01 | 37.51 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 14:32:52 | 41.34 | 37.84 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 14:32:52 | 41.67 | 38.17 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 14:32:53 | 41.99 | 38.49 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 14:32:53 | 42.32 | 38.82 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 14:32:53 | 42.65 | 39.15 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 14:32:54 | 42.98 | 39.48 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 14:32:54 | 43.31 | 39.81 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 14:32:54 | 43.64 | 40.14 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 14:32:55 | 43.96 | 40.46 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 14:32:55 | 44.29 | 40.79 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 14:32:55 | 44.62 | 41.12 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 14:33:11 | 44.95 | 41.45 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 14:33:12 | 45.28 | 41.78 | 149 | 1.14 | 0.29 | 8.1 |
| 4/30/2015 14:33:16 | 45.60 | 42.10 | 24 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 14:33:17 | 45.93 | 42.43 | 126 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 14:33:18 | 46.26 | 42.76 | 263 | 1.14 | 0.29 | 14.4 |
| 4/30/2015 14:33:18 | 46.59 | 43.09 | 404 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 14:33:30 | 46.92 | 43.42 | 68 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 14:33:31 | 47.24 | 43.74 | 202 | 1.14 | 0.29 | 11.0 |
| 4/30/2015 14:33:33 | 47.57 | 44.07 | 283 | 1.14 | 0.29 | 15.5 |
| 4/30/2015 14:34:14 | 47.90 | 44.40 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 14:34:53 | 48.23 | 44.73 | 6 | 1.14 | 0.29 | 0.3 |
| 4/30/2015 14:34:56 | 48.56 | 45.06 | 142 | 1.14 | 0.29 | 7.8 |
| 4/30/2015 14:34:59 | 48.88 | 45.38 | 119 | 1.14 | 0.29 | 6.5 |
| 4/30/2015 14:35:03 | 49.21 | 45.71 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 14:35:45 | 49.54 | 46.04 | 78 | 1.14 | 0.29 | 4.3 |
| 4/30/2015 14:35:49 | 49.87 | 46.37 | 76 | 1.14 | 0.29 | 4.1 |
| 4/30/2015 14:35:53 | 50.20 | 46.70 | 79 | 1.14 | 0.29 | 4.3 |
| 4/30/2015 14:35:58 | 50.53 | 47.03 | 85 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 14:36:01 | 50.85 | 47.35 | 125 | 1.14 | 0.29 | 6.8 |
| 4/30/2015 14:36:05 | 51.18 | 47.68 | 87 | 1.14 | 0.29 | 4.8 |
| 4/30/2015 14:36:08 | 51.40 | 47.90 | 72 | 1.14 | 0.29 | 3.9 |

## K1006 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 14:31:24

**End Date:**
4/30/2015 14:37:39

**Operator Note:**
'3.5 3.8 c Auto Complete'

**Northing:**
362,811.73

**Easting:**
245,663.89

**Tide (feet):**
3.50



## Hole: K1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 14:32:30 | 33.79 | 30.29 | 1,102 | 0.33 | 0.39 | 60.2 |
| 4/30/2015 14:32:30 | 34.12 | 30.62 | 1,102 | 0.33 | 0.39 | 60.2 |
| 4/30/2015 14:32:30 | 34.45 | 30.95 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 14:32:31 | 34.78 | 31.28 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 14:32:31 | 35.11 | 31.61 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 14:32:31 | 35.43 | 31.93 | 1,092 | 0.33 | 0.39 | 59.7 |
| 4/30/2015 14:32:32 | 35.76 | 32.26 | 1,092 | 0.33 | 0.39 | 59.7 |
| 4/30/2015 14:32:32 | 36.09 | 32.59 | 1,099 | 0.33 | 0.39 | 60.1 |
| 4/30/2015 14:32:33 | 36.42 | 32.92 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 14:32:33 | 36.75 | 33.25 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 14:32:33 | 37.07 | 33.57 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 14:32:33 | 37.40 | 33.90 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 14:32:34 | 37.73 | 34.23 | 1,086 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 14:32:41 | 38.06 | 34.56 | 0 | 0.33 | 0.38 | 0.0 |
| 4/30/2015 14:32:41 | 38.39 | 34.89 | 154 | 0.33 | 0.39 | 8.4 |
| 4/30/2015 14:32:42 | 38.71 | 35.21 | 154 | 0.33 | 0.39 | 8.4 |
| 4/30/2015 14:32:42 | 39.04 | 35.54 | 387 | 0.33 | 0.38 | 21.1 |
| 4/30/2015 14:32:42 | 39.37 | 35.87 | 604 | 0.33 | 0.39 | 33.0 |
| 4/30/2015 14:32:43 | 39.70 | 36.20 | 604 | 0.33 | 0.39 | 33.0 |
| 4/30/2015 14:32:43 | 40.03 | 36.53 | 821 | 0.33 | 0.38 | 44.9 |
| 4/30/2015 14:32:44 | 40.35 | 36.85 | 1,044 | 0.33 | 0.38 | 57.1 |
| 4/30/2015 14:32:44 | 40.68 | 37.18 | 1,044 | 0.33 | 0.38 | 57.1 |
| 4/30/2015 14:32:44 | 41.01 | 37.51 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 14:32:45 | 41.34 | 37.84 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 14:32:45 | 41.67 | 38.17 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 14:32:45 | 41.99 | 38.49 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 14:32:46 | 42.32 | 38.82 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 14:32:46 | 42.65 | 39.15 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 14:32:46 | 42.98 | 39.48 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 14:32:46 | 43.31 | 39.81 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 14:32:47 | 43.64 | 40.14 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/30/2015 14:32:47 | 43.96 | 40.46 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/30/2015 14:32:47 | 44.29 | 40.79 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 14:32:48 | 44.62 | 41.12 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 14:32:48 | 44.95 | 41.45 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 14:32:48 | 45.28 | 41.78 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 14:32:49 | 45.60 | 42.10 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 14:32:49 | 45.93 | 42.43 | 1,113 | 0.33 | 0.41 | 60.8 |
| 4/30/2015 14:32:57 | 46.26 | 42.76 | 37 | 3.43 | 0.47 | 2.0 |
| 4/30/2015 14:33:00 | 46.59 | 43.09 | 86 | 4.64 | 0.47 | 4.7 |
| 4/30/2015 14:33:06 | 46.92 | 43.42 | 73 | 4.93 | 0.48 | 4.0 |
| 4/30/2015 14:33:10 | 47.24 | 43.74 | 96 | 3.65 | 0.46 | 5.2 |
| 4/30/2015 14:33:20 | 47.57 | 44.07 | 6 | 3.85 | 0.47 | 0.3 |
| 4/30/2015 14:33:22 | 47.90 | 44.40 | 77 | 3.41 | 0.48 | 4.2 |
| 4/30/2015 14:33:32 | 48.23 | 44.73 | 60 | 3.71 | 0.46 | 3.3 |
| 4/30/2015 14:33:34 | 48.56 | 45.06 | 154 | 4.36 | 0.47 | 8.4 |
| 4/30/2015 14:33:37 | 48.88 | 45.38 | 116 | 3.45 | 0.48 | 6.3 |
| 4/30/2015 14:33:39 | 49.21 | 45.71 | 136 | 3.80 | 0.46 | 7.4 |
| 4/30/2015 14:33:42 | 49.54 | 46.04 | 152 | 3.80 | 0.46 | 8.3 |
| 4/30/2015 14:33:43 | 49.87 | 46.37 | 211 | 4.13 | 0.46 | 11.5 |
| 4/30/2015 14:33:45 | 50.20 | 46.70 | 220 | 3.68 | 0.47 | 12.0 |
| 4/30/2015 14:33:48 | 50.53 | 47.03 | 147 | 4.00 | 0.47 | 8.0 |
| 4/30/2015 14:33:50 | 50.85 | 47.35 | 142 | 3.48 | 0.47 | 7.8 |
| 4/30/2015 14:33:54 | 51.18 | 47.68 | 84 | 3.69 | 0.48 | 4.6 |
| 4/30/2015 14:33:59 | 51.51 | 48.01 | 71 | 4.04 | 0.46 | 3.9 |
| 4/30/2015 14:34:05 | 51.84 | 48.34 | 51 | 4.20 | 0.47 | 2.8 |
| 4/30/2015 14:34:10 | 52.17 | 48.67 | 64 | 3.22 | 0.47 | 3.5 |
| 4/30/2015 14:34:15 | 52.49 | 48.99 | 75 | 3.76 | 0.48 | 4.1 |
| 4/30/2015 14:34:20 | 52.82 | 49.32 | 78 | 3.55 | 0.47 | 4.2 |
| 4/30/2015 14:34:25 | 53.15 | 49.65 | 84 | 3.39 | 0.47 | 4.6 |
| 4/30/2015 14:34:30 | 53.48 | 49.98 | 72 | 3.48 | 0.47 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 14:34:35 | 53.81 | 50.31 | 61 | 3.52 | 0.47 | 3.3 |
| 4/30/2015 | 14:34:41 | 54.13 | 50.63 | 66 | 3.79 | 0.47 | 3.6 |
| 4/30/2015 | 14:34:47 | 54.46 | 50.96 | 64 | 3.68 | 0.47 | 3.5 |
| 4/30/2015 | 14:34:52 | 54.79 | 51.29 | 81 | 3.93 | 0.45 | 4.4 |
| 4/30/2015 | 14:34:57 | 55.12 | 51.62 | 61 | 3.82 | 0.47 | 3.3 |
| 4/30/2015 | 14:35:02 | 55.45 | 51.95 | 87 | 3.56 | 0.46 | 4.8 |
| 4/30/2015 | 14:35:04 | 55.77 | 52.27 | 159 | 3.09 | 0.46 | 8.7 |
| 4/30/2015 | 14:35:08 | 56.10 | 52.60 | 65 | 4.02 | 0.47 | 3.6 |
| 4/30/2015 | 14:35:13 | 56.43 | 52.93 | 69 | 3.46 | 0.47 | 3.8 |
| 4/30/2015 | 14:35:18 | 56.76 | 53.26 | 78 | 3.76 | 0.47 | 4.3 |
| 4/30/2015 | 14:35:23 | 57.09 | 53.59 | 74 | 3.58 | 0.47 | 4.1 |
| 4/30/2015 | 14:35:27 | 57.41 | 53.91 | 90 | 3.81 | 0.47 | 4.9 |
| 4/30/2015 | 14:35:31 | 57.74 | 54.24 | 96 | 3.28 | 0.47 | 5.2 |
| 4/30/2015 | 14:35:52 | 58.07 | 54.57 | 78 | 3.57 | 0.47 | 4.3 |
| 4/30/2015 | 14:35:55 | 58.40 | 54.90 | 130 | 3.32 | 0.46 | 7.1 |
| 4/30/2015 | 14:35:58 | 58.73 | 55.23 | 122 | 3.30 | 0.47 | 6.7 |
| 4/30/2015 | 14:35:59 | 58.80 | 55.30 | 87 | 3.26 | 0.47 | 4.8 |

## K1007 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 14:31:36

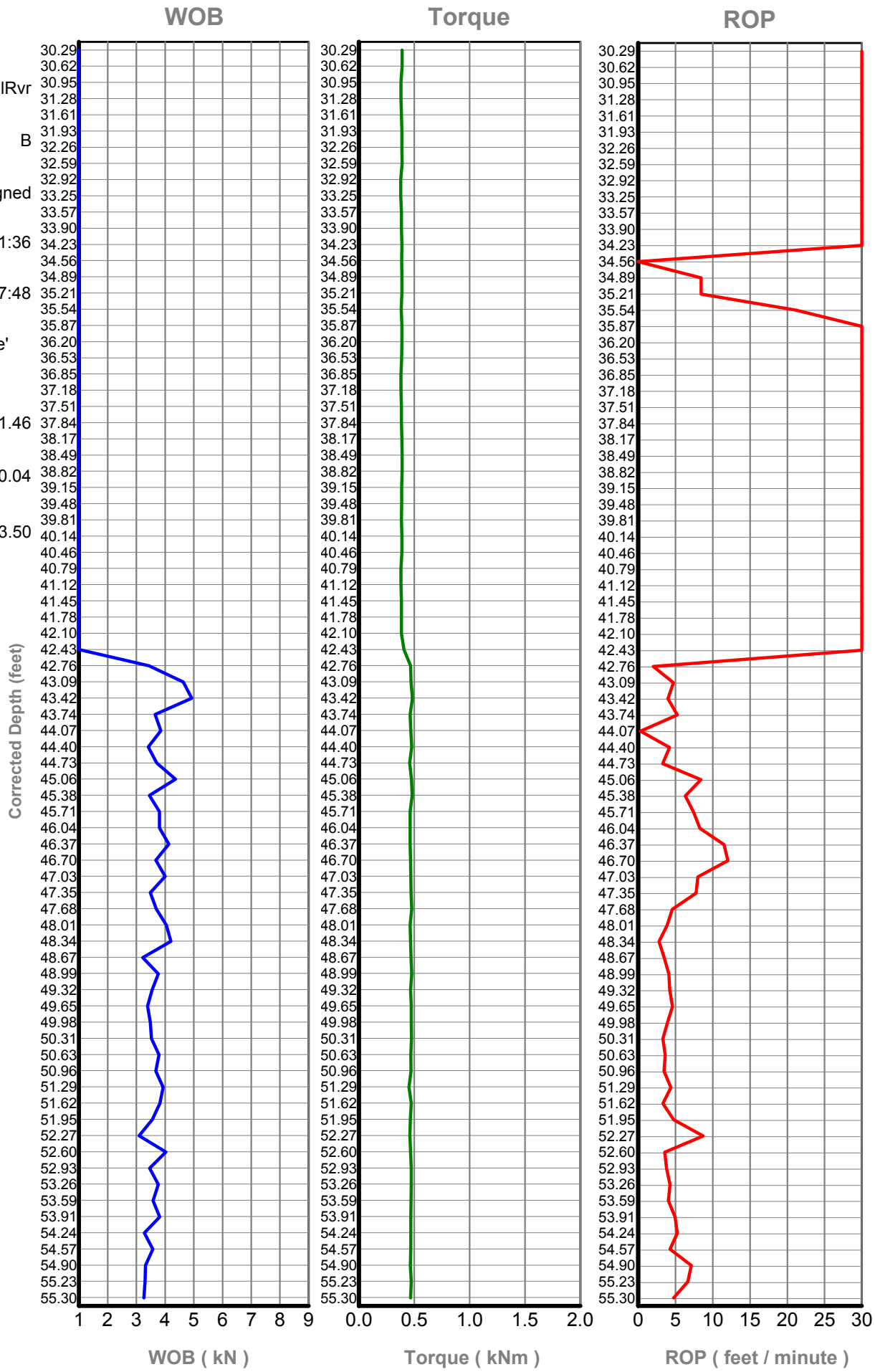
**End Date:**
4/30/2015 14:37:48

**Operator Note:**
'3.5 3.8 b Auto Complete'

**Northing:**
362,861.46

**Easting:**
245,720.04

**Tide (feet):**
3.50



## Hole: K1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 14:30:30 | 33.79 | 30.29 | 928 | 1.15 | 0.14 | 50.7 |
| 4/30/2015 14:30:30 | 34.12 | 30.62 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 14:30:31 | 34.45 | 30.95 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 14:30:31 | 34.78 | 31.28 | 931 | 1.15 | 0.14 | 50.9 |
| 4/30/2015 14:30:31 | 35.11 | 31.61 | 925 | 0.22 | 0.06 | 50.6 |
| 4/30/2015 14:30:39 | 35.43 | 31.93 | 80 | 1.15 | 0.15 | 4.4 |
| 4/30/2015 14:30:40 | 35.76 | 32.26 | 80 | 1.15 | 0.15 | 4.4 |
| 4/30/2015 14:30:40 | 36.09 | 32.59 | 263 | 1.16 | 0.15 | 14.4 |
| 4/30/2015 14:30:40 | 36.42 | 32.92 | 451 | 1.17 | 0.15 | 24.7 |
| 4/30/2015 14:30:41 | 36.75 | 33.25 | 640 | 1.14 | 0.15 | 35.0 |
| 4/30/2015 14:30:41 | 37.07 | 33.57 | 640 | 1.14 | 0.15 | 35.0 |
| 4/30/2015 14:30:41 | 37.40 | 33.90 | 817 | 1.15 | 0.15 | 44.7 |
| 4/30/2015 14:30:42 | 37.73 | 34.23 | 917 | 1.15 | 0.15 | 50.2 |
| 4/30/2015 14:30:42 | 38.06 | 34.56 | 929 | 1.15 | 0.15 | 50.8 |
| 4/30/2015 14:30:43 | 38.39 | 34.89 | 929 | 1.15 | 0.15 | 50.8 |
| 4/30/2015 14:30:43 | 38.71 | 35.21 | 929 | 1.16 | 0.15 | 50.8 |
| 4/30/2015 14:30:43 | 39.04 | 35.54 | 913 | 1.15 | 0.15 | 49.9 |
| 4/30/2015 14:30:44 | 39.37 | 35.87 | 913 | 1.14 | 0.15 | 49.9 |
| 4/30/2015 14:30:44 | 39.70 | 36.20 | 913 | 1.14 | 0.15 | 49.9 |
| 4/30/2015 14:30:44 | 40.03 | 36.53 | 928 | 1.15 | 0.13 | 50.8 |
| 4/30/2015 14:30:45 | 40.35 | 36.85 | 936 | 1.14 | 0.15 | 51.2 |
| 4/30/2015 14:30:45 | 40.68 | 37.18 | 922 | 1.16 | 0.15 | 50.4 |
| 4/30/2015 14:30:46 | 41.01 | 37.51 | 922 | 1.16 | 0.15 | 50.4 |
| 4/30/2015 14:30:46 | 41.34 | 37.84 | 919 | 1.16 | 0.15 | 50.3 |
| 4/30/2015 14:30:46 | 41.67 | 38.17 | 932 | 1.15 | 0.15 | 51.0 |
| 4/30/2015 14:30:47 | 41.99 | 38.49 | 932 | 1.15 | 0.15 | 51.0 |
| 4/30/2015 14:30:47 | 42.32 | 38.82 | 922 | 1.15 | 0.15 | 50.4 |
| 4/30/2015 14:30:48 | 42.65 | 39.15 | 914 | 1.14 | 0.15 | 50.0 |
| 4/30/2015 14:30:48 | 42.98 | 39.48 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 14:30:49 | 43.31 | 39.81 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 14:30:49 | 43.64 | 40.14 | 919 | 1.16 | 0.15 | 50.3 |
| 4/30/2015 14:30:49 | 43.96 | 40.46 | 919 | 1.15 | 0.15 | 50.3 |
| 4/30/2015 14:30:50 | 44.29 | 40.79 | 919 | 1.16 | 0.15 | 50.3 |
| 4/30/2015 14:30:50 | 44.62 | 41.12 | 919 | 1.16 | 0.15 | 50.3 |
| 4/30/2015 14:30:58 | 44.95 | 41.45 | 0 | 1.10 | 0.80 | 0.0 |
| 4/30/2015 14:31:01 | 45.28 | 41.78 | 35 | 1.17 | 1.21 | 1.9 |
| 4/30/2015 14:31:06 | 45.60 | 42.10 | 98 | 1.19 | 1.30 | 5.3 |
| 4/30/2015 14:31:12 | 45.93 | 42.43 | 73 | 1.13 | 1.39 | 4.0 |
| 4/30/2015 14:31:15 | 46.26 | 42.76 | 120 | 1.19 | 1.25 | 6.5 |
| 4/30/2015 14:31:19 | 46.59 | 43.09 | 90 | 1.11 | 1.30 | 4.9 |
| 4/30/2015 14:31:24 | 46.92 | 43.42 | 72 | 1.12 | 1.05 | 4.0 |
| 4/30/2015 14:31:33 | 47.24 | 43.74 | 43 | 1.14 | 1.14 | 2.4 |
| 4/30/2015 14:31:40 | 47.57 | 44.07 | 45 | 1.13 | 0.95 | 2.5 |
| 4/30/2015 14:31:48 | 47.90 | 44.40 | 42 | 1.11 | 0.92 | 2.3 |
| 4/30/2015 14:31:55 | 48.13 | 44.63 | 32 | 0.57 | 1.13 | 1.7 |

## K1008 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 14:28:43

**End Date:**
4/30/2015 14:33:33

**Operator Note:**
'3.5 3.8 a Auto Complete'

**Northing:**
362,911.18

**Easting:**
245,776.19

**Tide (feet):**
3.50



## Hole: K1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:51:00 | 32.48 | 30.28 | 877 | 1.13 | 0.15 | 48.0 |
| 4/30/2015 15:51:01 | 32.81 | 30.61 | 877 | 1.13 | 0.15 | 48.0 |
| 4/30/2015 15:51:01 | 33.14 | 30.94 | 875 | 1.13 | 0.15 | 47.8 |
| 4/30/2015 15:51:01 | 33.46 | 31.26 | 875 | 1.15 | 0.15 | 47.8 |
| 4/30/2015 15:51:02 | 33.79 | 31.59 | 883 | 1.12 | 0.15 | 48.3 |
| 4/30/2015 15:51:02 | 34.12 | 31.92 | 883 | 1.12 | 0.15 | 48.3 |
| 4/30/2015 15:51:02 | 34.45 | 32.25 | 883 | 1.14 | 0.15 | 48.3 |
| 4/30/2015 15:51:03 | 34.78 | 32.58 | 875 | 1.12 | 0.15 | 47.9 |
| 4/30/2015 15:51:03 | 35.11 | 32.91 | 868 | 1.11 | 0.15 | 47.5 |
| 4/30/2015 15:51:04 | 35.43 | 33.23 | 873 | 1.12 | 0.15 | 47.7 |
| 4/30/2015 15:51:04 | 35.76 | 33.56 | 873 | 1.12 | 0.15 | 47.7 |
| 4/30/2015 15:51:04 | 36.09 | 33.89 | 870 | 1.11 | 0.15 | 47.6 |
| 4/30/2015 15:51:05 | 36.42 | 34.22 | 870 | 1.13 | 0.15 | 47.6 |
| 4/30/2015 15:51:05 | 36.75 | 34.55 | 885 | 1.12 | 0.15 | 48.4 |
| 4/30/2015 15:51:06 | 37.07 | 34.87 | 885 | 1.12 | 0.15 | 48.4 |
| 4/30/2015 15:51:06 | 37.40 | 35.20 | 879 | 1.13 | 0.15 | 48.1 |
| 4/30/2015 15:51:06 | 37.73 | 35.53 | 879 | 1.13 | 0.15 | 48.1 |
| 4/30/2015 15:51:07 | 38.06 | 35.86 | 884 | 1.13 | 0.15 | 48.3 |
| 4/30/2015 15:51:07 | 38.39 | 36.19 | 884 | 1.13 | 0.15 | 48.3 |
| 4/30/2015 15:51:07 | 38.71 | 36.51 | 897 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 15:51:08 | 39.04 | 36.84 | 889 | 1.13 | 0.15 | 48.6 |
| 4/30/2015 15:51:08 | 39.37 | 37.17 | 869 | 1.13 | 0.15 | 47.5 |
| 4/30/2015 15:51:09 | 39.70 | 37.50 | 869 | 1.12 | 0.15 | 47.5 |
| 4/30/2015 15:51:10 | 40.03 | 37.83 | 869 | 1.12 | 0.15 | 47.5 |
| 4/30/2015 15:51:10 | 40.35 | 38.15 | 897 | 1.13 | 0.16 | 49.0 |
| 4/30/2015 15:51:10 | 40.68 | 38.48 | 884 | 1.11 | 0.15 | 48.4 |
| 4/30/2015 15:51:11 | 41.01 | 38.81 | 867 | 1.13 | 0.15 | 47.4 |
| 4/30/2015 15:51:11 | 41.34 | 39.14 | 867 | 1.13 | 0.15 | 47.4 |
| 4/30/2015 15:51:11 | 41.67 | 39.47 | 869 | 1.11 | 0.15 | 47.5 |
| 4/30/2015 15:51:12 | 41.99 | 39.79 | 872 | 1.13 | 0.15 | 47.7 |
| 4/30/2015 15:51:12 | 42.32 | 40.12 | 872 | 1.13 | 0.15 | 47.7 |
| 4/30/2015 15:51:13 | 42.65 | 40.45 | 876 | 1.15 | 0.15 | 47.9 |
| 4/30/2015 15:51:13 | 42.98 | 40.78 | 876 | 1.15 | 0.15 | 47.9 |
| 4/30/2015 15:51:13 | 43.31 | 41.11 | 862 | 1.15 | 0.15 | 47.1 |
| 4/30/2015 15:51:14 | 43.64 | 41.44 | 870 | 1.11 | 0.15 | 47.6 |
| 4/30/2015 15:51:14 | 43.96 | 41.76 | 870 | 1.13 | 0.15 | 47.6 |
| 4/30/2015 15:51:15 | 44.29 | 42.09 | 870 | 1.13 | 0.15 | 47.6 |
| 4/30/2015 15:51:15 | 44.62 | 42.42 | 882 | 1.14 | 0.15 | 48.2 |
| 4/30/2015 15:51:15 | 44.95 | 42.75 | 874 | 1.13 | 0.15 | 47.8 |
| 4/30/2015 15:51:16 | 45.28 | 43.08 | 871 | 1.12 | 0.15 | 47.6 |
| 4/30/2015 15:51:16 | 45.60 | 43.40 | 891 | 1.11 | 0.15 | 48.7 |
| 4/30/2015 15:51:17 | 45.93 | 43.73 | 891 | 1.11 | 0.15 | 48.7 |
| 4/30/2015 15:51:17 | 46.26 | 44.06 | 881 | 1.13 | 0.15 | 48.2 |
| 4/30/2015 15:51:18 | 46.59 | 44.39 | 868 | 1.14 | 0.15 | 47.5 |
| 4/30/2015 15:51:18 | 46.92 | 44.72 | 871 | 1.38 | 0.15 | 47.6 |
| 4/30/2015 15:51:19 | 47.24 | 45.04 | 871 | 1.38 | 0.15 | 47.6 |
| 4/30/2015 15:51:31 | 47.57 | 45.37 | 37 | 1.18 | 0.85 | 2.0 |
| 4/30/2015 15:51:31 | 47.90 | 45.70 | 146 | 1.14 | 0.77 | 8.0 |
| 4/30/2015 15:51:32 | 48.23 | 46.03 | 340 | 1.12 | 0.85 | 18.6 |
| 4/30/2015 15:51:33 | 48.56 | 46.36 | 340 | 1.20 | 0.73 | 18.6 |
| 4/30/2015 15:51:35 | 48.88 | 46.68 | 201 | 1.13 | 0.86 | 11.0 |
| 4/30/2015 15:51:37 | 49.21 | 47.01 | 210 | 1.19 | 1.49 | 11.5 |
| 4/30/2015 15:51:41 | 49.54 | 47.34 | 74 | 1.21 | 1.28 | 4.0 |
| 4/30/2015 15:51:43 | 49.87 | 47.67 | 145 | 1.95 | 1.42 | 7.9 |
| 4/30/2015 15:51:44 | 50.20 | 48.00 | 187 | 1.11 | 1.50 | 10.2 |
| 4/30/2015 15:51:47 | 50.53 | 48.33 | 160 | 1.11 | 1.19 | 8.8 |
| 4/30/2015 15:51:49 | 50.85 | 48.65 | 120 | 1.14 | 1.12 | 6.6 |
| 4/30/2015 15:51:53 | 51.18 | 48.98 | 131 | 1.15 | 1.12 | 7.2 |
| 4/30/2015 15:51:58 | 51.51 | 49.31 | 66 | 1.07 | 1.14 | 3.6 |
| 4/30/2015 15:52:04 | 51.84 | 49.64 | 55 | 1.07 | 1.16 | 3.0 |
| 4/30/2015 15:52:10 | 52.17 | 49.97 | 61 | 1.06 | 1.26 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 15:52:16 | 52.49 | 50.29 | 58 | 1.12 | 1.45 | 3.2 |
| 4/30/2015 | 15:52:21 | 52.82 | 50.62 | 59 | 1.05 | 1.24 | 3.2 |
| 4/30/2015 | 15:52:28 | 53.15 | 50.95 | 55 | 1.07 | 1.32 | 3.0 |
| 4/30/2015 | 15:52:34 | 53.48 | 51.28 | 62 | 1.03 | 1.34 | 3.4 |
| 4/30/2015 | 15:52:39 | 53.81 | 51.61 | 71 | 1.10 | 1.36 | 3.9 |
| 4/30/2015 | 15:52:41 | 53.94 | 51.74 | 68 | 0.86 | 1.44 | 3.7 |

## K1009 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/30/2015 15:49:22

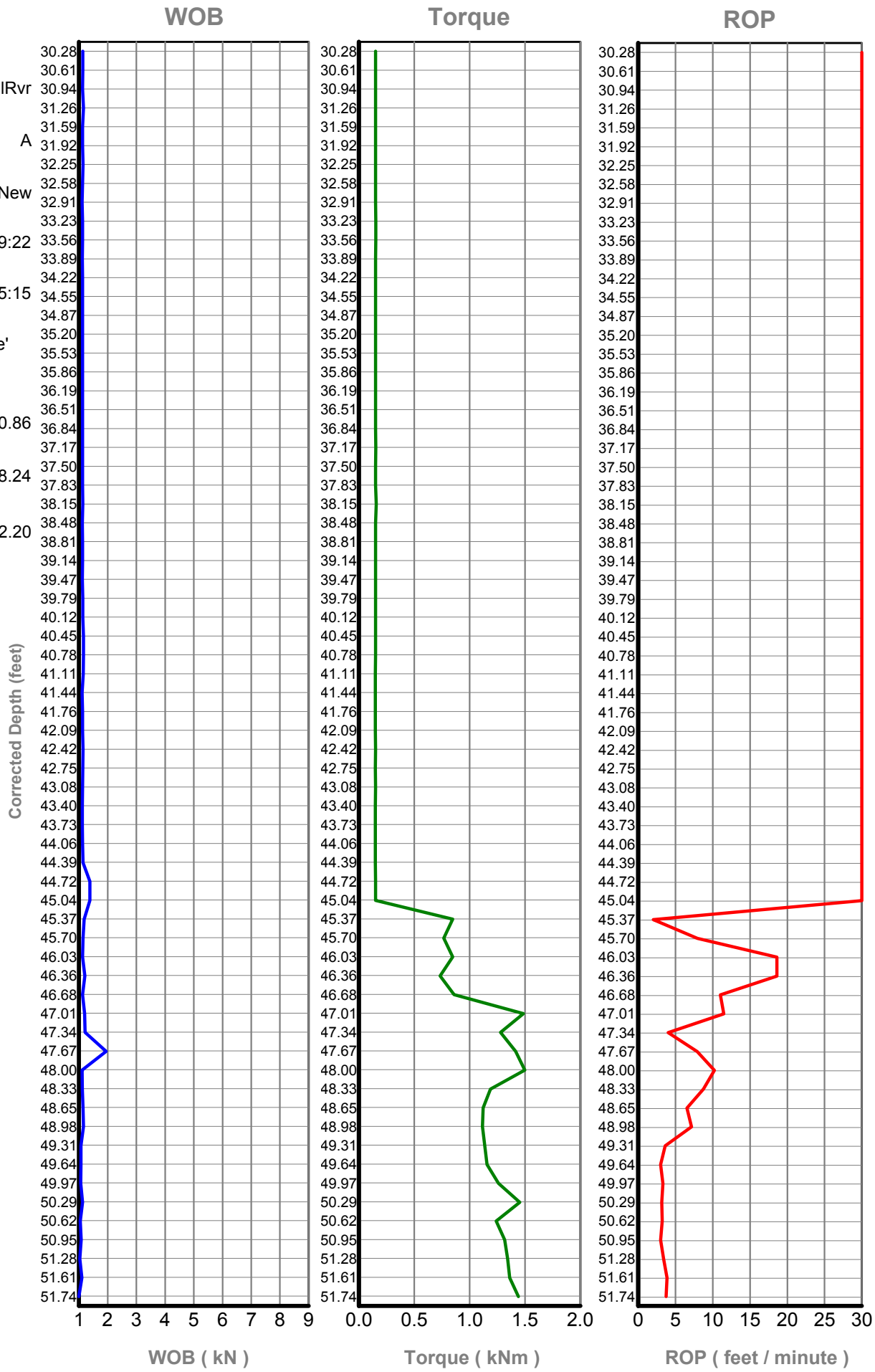
**End Date:**
4/30/2015 15:55:15

**Operator Note:**
'2.2 2.4 a Auto Complete'

**Northing:**
362,370.86

**Easting:**
245,708.24

**Tide (feet):**
2.20



## Hole: K101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:53:45 | 34.78 | 30.18 | 871 | 1.05 | 0.17 | 47.6 |
| 4/30/2015 0:53:45 | 35.11 | 30.51 | 863 | 1.04 | 0.18 | 47.2 |
| 4/30/2015 0:53:45 | 35.43 | 30.83 | 869 | 1.05 | 0.18 | 47.5 |
| 4/30/2015 0:53:46 | 35.76 | 31.16 | 858 | 1.05 | 0.18 | 46.9 |
| 4/30/2015 0:53:46 | 36.09 | 31.49 | 857 | 1.03 | 0.18 | 46.9 |
| 4/30/2015 0:53:47 | 36.42 | 31.82 | 857 | 1.03 | 0.18 | 46.9 |
| 4/30/2015 0:53:47 | 36.75 | 32.15 | 872 | 1.04 | 0.18 | 47.7 |
| 4/30/2015 0:53:47 | 37.07 | 32.47 | 864 | 1.05 | 0.18 | 47.3 |
| 4/30/2015 0:53:48 | 37.40 | 32.80 | 861 | 1.05 | 0.18 | 47.1 |
| 4/30/2015 0:53:48 | 37.73 | 33.13 | 864 | 1.04 | 0.18 | 47.3 |
| 4/30/2015 0:53:49 | 38.06 | 33.46 | 864 | 1.04 | 0.18 | 47.3 |
| 4/30/2015 0:53:49 | 38.39 | 33.79 | 862 | 1.04 | 0.18 | 47.2 |
| 4/30/2015 0:53:49 | 38.71 | 34.11 | 845 | 1.03 | 0.18 | 46.2 |
| 4/30/2015 0:53:50 | 39.04 | 34.44 | 845 | 1.03 | 0.18 | 46.2 |
| 4/30/2015 0:53:50 | 39.37 | 34.77 | 845 | 1.03 | 0.18 | 46.2 |
| 4/30/2015 0:53:50 | 39.70 | 35.10 | 856 | 1.03 | 0.18 | 46.8 |
| 4/30/2015 0:53:51 | 40.03 | 35.43 | 859 | 1.06 | 0.18 | 46.9 |
| 4/30/2015 0:53:51 | 40.35 | 35.75 | 858 | 1.05 | 0.18 | 46.9 |
| 4/30/2015 0:53:52 | 40.68 | 36.08 | 858 | 1.05 | 0.18 | 46.9 |
| 4/30/2015 0:53:52 | 41.01 | 36.41 | 858 | 1.05 | 0.18 | 46.9 |
| 4/30/2015 0:53:52 | 41.34 | 36.74 | 872 | 1.04 | 0.18 | 47.7 |
| 4/30/2015 0:53:53 | 41.67 | 37.07 | 857 | 1.03 | 0.18 | 46.8 |
| 4/30/2015 0:53:53 | 41.99 | 37.39 | 835 | 1.04 | 0.18 | 45.6 |
| 4/30/2015 0:53:54 | 42.32 | 37.72 | 835 | 1.05 | 0.17 | 45.6 |
| 4/30/2015 0:53:55 | 42.65 | 38.05 | 835 | 1.05 | 0.17 | 45.6 |
| 4/30/2015 0:53:54 | 42.98 | 38.38 | 841 | 1.04 | 0.18 | 46.0 |
| 4/30/2015 0:53:55 | 43.31 | 38.71 | 841 | 1.02 | 0.18 | 46.0 |
| 4/30/2015 0:53:56 | 43.64 | 39.04 | 839 | 1.02 | 0.18 | 45.9 |
| 4/30/2015 0:53:56 | 43.96 | 39.36 | 839 | 1.04 | 0.18 | 45.9 |
| 4/30/2015 0:53:57 | 44.29 | 39.69 | 839 | 1.04 | 0.18 | 45.9 |
| 4/30/2015 0:53:57 | 44.62 | 40.02 | 839 | 1.05 | 0.18 | 45.9 |
| 4/30/2015 0:53:57 | 44.95 | 40.35 | 853 | 1.05 | 0.18 | 46.6 |
| 4/30/2015 0:53:58 | 45.28 | 40.68 | 849 | 1.04 | 0.18 | 46.4 |
| 4/30/2015 0:53:58 | 45.60 | 41.00 | 849 | 1.03 | 0.18 | 46.4 |
| 4/30/2015 0:53:59 | 45.93 | 41.33 | 849 | 1.03 | 0.18 | 46.4 |
| 4/30/2015 0:53:59 | 46.26 | 41.66 | 845 | 1.05 | 0.17 | 46.2 |
| 4/30/2015 0:53:59 | 46.59 | 41.99 | 852 | 1.02 | 0.17 | 46.6 |
| 4/30/2015 0:54:00 | 46.92 | 42.32 | 838 | 1.04 | 0.18 | 45.8 |
| 4/30/2015 0:54:00 | 47.24 | 42.64 | 838 | 1.03 | 0.18 | 45.8 |
| 4/30/2015 0:54:01 | 47.57 | 42.97 | 829 | 1.05 | 0.18 | 45.4 |
| 4/30/2015 0:54:01 | 47.90 | 43.30 | 829 | 1.05 | 0.18 | 45.4 |
| 4/30/2015 0:54:01 | 48.23 | 43.63 | 829 | 1.05 | 0.17 | 45.4 |
| 4/30/2015 0:54:02 | 48.56 | 43.96 | 847 | 1.03 | 0.18 | 46.3 |
| 4/30/2015 0:54:02 | 48.88 | 44.28 | 847 | 1.03 | 0.25 | 46.3 |
| 4/30/2015 0:54:03 | 49.21 | 44.61 | 852 | 1.02 | 0.18 | 46.6 |
| 4/30/2015 0:54:03 | 49.54 | 44.94 | 852 | 1.02 | 0.18 | 46.6 |
| 4/30/2015 0:54:05 | 49.87 | 45.27 | 617 | 1.07 | 1.17 | 33.7 |
| 4/30/2015 0:54:16 | 50.20 | 45.60 | 66 | 1.02 | 0.93 | 3.6 |
| 4/30/2015 0:54:22 | 50.53 | 45.93 | 52 | 1.06 | 0.92 | 2.8 |
| 4/30/2015 0:54:29 | 50.85 | 46.25 | 58 | 1.05 | 1.11 | 3.2 |
| 4/30/2015 0:54:34 | 51.18 | 46.58 | 49 | 1.07 | 0.92 | 2.7 |
| 4/30/2015 0:54:41 | 51.51 | 46.91 | 57 | 1.07 | 0.84 | 3.1 |
| 4/30/2015 0:54:49 | 51.84 | 47.24 | 47 | 1.01 | 1.01 | 2.6 |
| 4/30/2015 0:54:56 | 52.17 | 47.57 | 53 | 0.98 | 0.86 | 2.9 |
| 4/30/2015 0:54:57 | 52.22 | 47.62 | 55 | 0.57 | 1.08 | 3.0 |

## K101 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:51:44

**End Date:**
4/30/2015 0:56:16

**Operator Note:**
'4.6 4.7 b Auto Complete'

**Northing:**
362,352.40

**Easting:**
245,438.50

**Tide (feet):**
4.60



## Hole: K1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:49:37 | 32.48 | 30.28 | 1,223 | 0.30 | 0.37 | 66.9 |
| 4/30/2015 15:49:37 | 32.81 | 30.61 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/30/2015 15:49:37 | 33.14 | 30.94 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/30/2015 15:49:37 | 33.46 | 31.26 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 15:49:37 | 33.79 | 31.59 | 1,201 | 0.28 | 0.36 | 65.7 |
| 4/30/2015 15:49:38 | 34.12 | 31.92 | 1,201 | 0.28 | 0.36 | 65.7 |
| 4/30/2015 15:49:38 | 34.45 | 32.25 | 1,203 | 0.28 | 0.38 | 65.8 |
| 4/30/2015 15:49:39 | 34.78 | 32.58 | 1,203 | 0.28 | 0.38 | 65.8 |
| 4/30/2015 15:49:39 | 35.11 | 32.91 | 1,207 | 0.28 | 0.38 | 66.0 |
| 4/30/2015 15:49:39 | 35.43 | 33.23 | 1,207 | 0.28 | 0.38 | 66.0 |
| 4/30/2015 15:49:39 | 35.76 | 33.56 | 1,207 | 0.29 | 0.38 | 66.0 |
| 4/30/2015 15:49:40 | 36.09 | 33.89 | 1,207 | 0.29 | 0.38 | 66.0 |
| 4/30/2015 15:49:40 | 36.42 | 34.22 | 1,220 | 0.28 | 0.37 | 66.7 |
| 4/30/2015 15:49:40 | 36.75 | 34.55 | 1,238 | 0.28 | 0.37 | 67.7 |
| 4/30/2015 15:49:41 | 37.07 | 34.87 | 1,238 | 0.28 | 0.37 | 67.7 |
| 4/30/2015 15:49:41 | 37.40 | 35.20 | 1,217 | 0.29 | 0.37 | 66.6 |
| 4/30/2015 15:49:41 | 37.73 | 35.53 | 1,217 | 0.29 | 0.37 | 66.6 |
| 4/30/2015 15:49:41 | 38.06 | 35.86 | 1,220 | 0.28 | 0.38 | 66.7 |
| 4/30/2015 15:49:42 | 38.39 | 36.19 | 1,220 | 0.28 | 0.38 | 66.7 |
| 4/30/2015 15:49:42 | 38.71 | 36.51 | 1,220 | 0.28 | 0.36 | 66.7 |
| 4/30/2015 15:49:42 | 39.04 | 36.84 | 1,223 | 0.33 | 0.38 | 66.9 |
| 4/30/2015 15:49:43 | 39.37 | 37.17 | 1,223 | 0.33 | 0.38 | 66.9 |
| 4/30/2015 15:49:43 | 39.70 | 37.50 | 1,210 | 0.26 | 0.37 | 66.1 |
| 4/30/2015 15:49:43 | 40.03 | 37.83 | 1,210 | 0.26 | 0.37 | 66.1 |
| 4/30/2015 15:49:43 | 40.35 | 38.15 | 1,223 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 15:49:44 | 40.68 | 38.48 | 1,223 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 15:49:44 | 41.01 | 38.81 | 1,223 | 0.31 | 0.37 | 66.9 |
| 4/30/2015 15:49:44 | 41.34 | 39.14 | 1,223 | 0.31 | 0.37 | 66.9 |
| 4/30/2015 15:49:44 | 41.67 | 39.47 | 1,217 | 0.31 | 0.38 | 66.6 |
| 4/30/2015 15:49:45 | 41.99 | 39.79 | 1,201 | 0.30 | 0.37 | 65.7 |
| 4/30/2015 15:49:45 | 42.32 | 40.12 | 1,201 | 0.30 | 0.37 | 65.7 |
| 4/30/2015 15:49:45 | 42.65 | 40.45 | 1,225 | 0.29 | 0.37 | 67.0 |
| 4/30/2015 15:49:46 | 42.98 | 40.78 | 1,225 | 0.29 | 0.37 | 67.0 |
| 4/30/2015 15:49:46 | 43.31 | 41.11 | 1,219 | 0.29 | 0.35 | 66.6 |
| 4/30/2015 15:49:46 | 43.64 | 41.44 | 1,219 | 0.29 | 0.35 | 66.6 |
| 4/30/2015 15:49:46 | 43.96 | 41.76 | 1,213 | 0.29 | 0.38 | 66.3 |
| 4/30/2015 15:49:47 | 44.29 | 42.09 | 1,209 | 0.29 | 0.38 | 66.1 |
| 4/30/2015 15:49:47 | 44.62 | 42.42 | 1,209 | 0.29 | 0.38 | 66.1 |
| 4/30/2015 15:49:47 | 44.95 | 42.75 | 1,232 | 0.29 | 0.38 | 67.4 |
| 4/30/2015 15:49:48 | 45.28 | 43.08 | 1,232 | 0.29 | 0.38 | 67.4 |
| 4/30/2015 15:49:48 | 45.60 | 43.40 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 15:49:49 | 45.93 | 43.73 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 15:49:49 | 46.26 | 44.06 | 1,214 | 0.28 | 0.37 | 66.4 |
| 4/30/2015 15:49:49 | 46.59 | 44.39 | 1,217 | 0.26 | 0.39 | 66.6 |
| 4/30/2015 15:49:50 | 46.92 | 44.72 | 1,217 | 0.26 | 0.39 | 66.6 |
| 4/30/2015 15:50:00 | 47.24 | 45.04 | 52 | 4.98 | 0.47 | 2.8 |
| 4/30/2015 15:50:02 | 47.57 | 45.37 | 152 | 3.41 | 0.43 | 8.3 |
| 4/30/2015 15:50:05 | 47.90 | 45.70 | 83 | 4.95 | 0.45 | 4.5 |
| 4/30/2015 15:50:06 | 48.23 | 46.03 | 95 | 4.30 | 0.44 | 5.2 |
| 4/30/2015 15:50:07 | 48.56 | 46.36 | 252 | 3.73 | 0.35 | 13.8 |
| 4/30/2015 15:50:17 | 48.88 | 46.68 | 32 | 3.42 | 0.43 | 1.7 |
| 4/30/2015 15:50:18 | 49.21 | 47.01 | 177 | 4.55 | 0.45 | 9.7 |
| 4/30/2015 15:50:26 | 49.54 | 47.34 | 69 | 3.78 | 0.42 | 3.8 |
| 4/30/2015 15:50:26 | 49.87 | 47.67 | 158 | 3.86 | 0.43 | 8.6 |
| 4/30/2015 15:50:27 | 50.20 | 48.00 | 267 | 4.02 | 0.44 | 14.6 |
| 4/30/2015 15:50:28 | 50.53 | 48.33 | 434 | 4.10 | 0.44 | 23.8 |
| 4/30/2015 15:50:29 | 50.85 | 48.65 | 452 | 4.49 | 0.44 | 24.7 |
| 4/30/2015 15:50:41 | 51.18 | 48.98 | 92 | 3.71 | 0.44 | 5.0 |
| 4/30/2015 15:50:42 | 51.51 | 49.31 | 217 | 4.83 | 0.45 | 11.9 |
| 4/30/2015 15:50:43 | 51.84 | 49.64 | 312 | 5.02 | 0.43 | 17.1 |
| 4/30/2015 15:50:44 | 52.17 | 49.97 | 263 | 3.95 | 0.44 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 15:52:21 | 52.49 | 50.29 | 83 | 3.14 | 0.41 | 4.5 |
| 4/30/2015 | 15:52:25 | 52.82 | 50.62 | 120 | 4.00 | 0.46 | 6.6 |
| 4/30/2015 | 15:52:27 | 53.15 | 50.95 | 81 | 3.67 | 0.44 | 4.4 |
| 4/30/2015 | 15:52:29 | 53.48 | 51.28 | 208 | 3.62 | 0.43 | 11.4 |
| 4/30/2015 | 15:52:30 | 53.81 | 51.61 | 326 | 5.64 | 0.44 | 17.8 |
| 4/30/2015 | 15:52:33 | 54.13 | 51.93 | 64 | 4.80 | 0.46 | 3.5 |
| 4/30/2015 | 15:52:41 | 54.46 | 52.26 | 41 | 3.24 | 0.46 | 2.2 |
| 4/30/2015 | 15:52:49 | 54.79 | 52.59 | 46 | 3.80 | 0.46 | 2.5 |
| 4/30/2015 | 15:52:57 | 55.12 | 52.92 | 43 | 2.83 | 0.47 | 2.4 |
| 4/30/2015 | 15:53:02 | 55.31 | 53.11 | 42 | 2.65 | 0.46 | 2.3 |

## K1010 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/30/2015 15:48:02

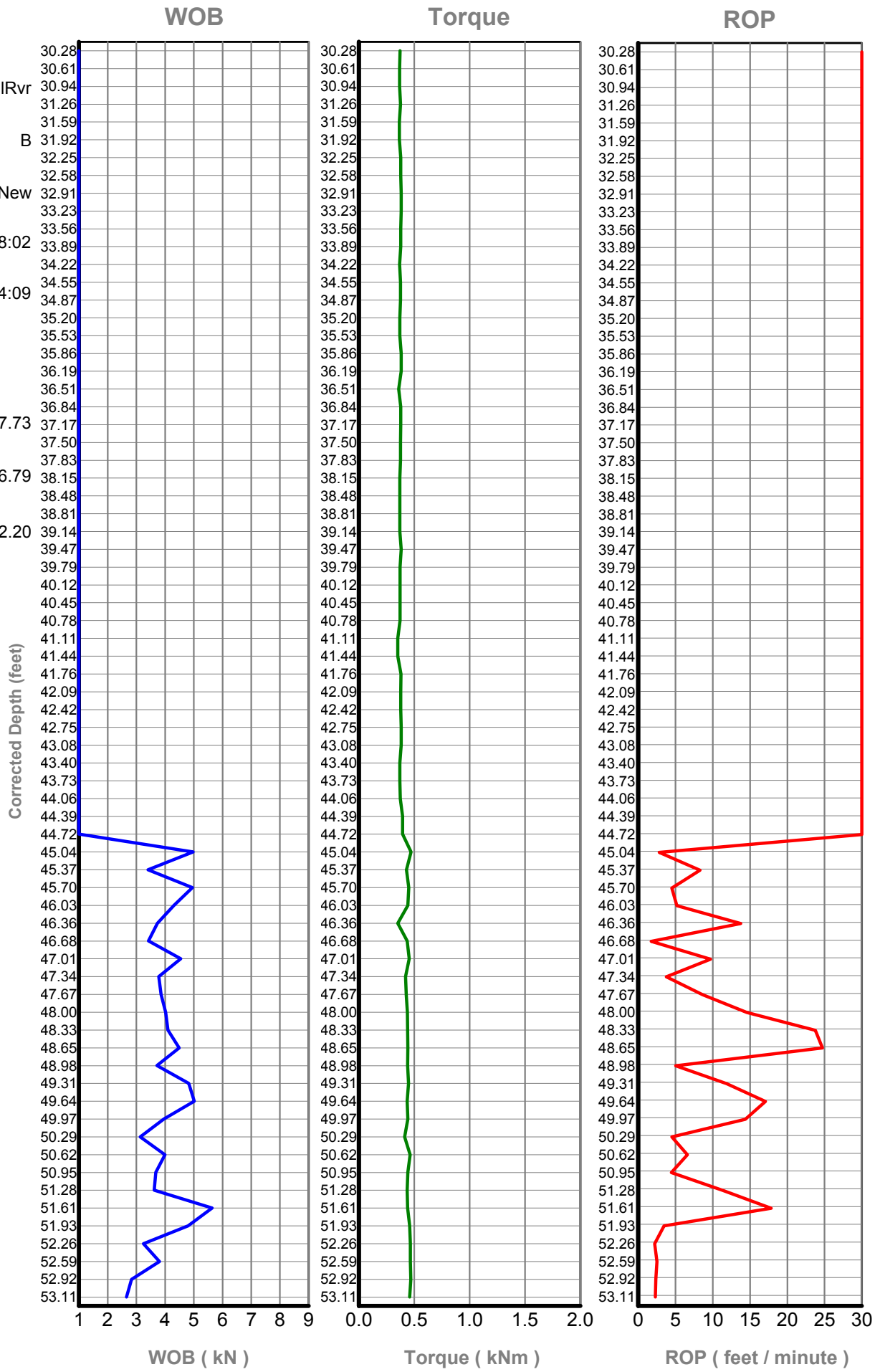
**End Date:**
4/30/2015 15:54:09

**Operator Note:**
'2.2 2.4 b Rock'

**Northing:**
362,417.73

**Easting:**
245,766.79

**Tide (feet):**
2.20



## Hole: K1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 15:49:00 | 32.48 | 30.28 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:00 | 32.81 | 30.61 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:01 | 33.14 | 30.94 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:01 | 33.46 | 31.26 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:01 | 33.79 | 31.59 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:02 | 34.12 | 31.92 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:02 | 34.45 | 32.25 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:02 | 34.78 | 32.58 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:03 | 35.11 | 32.91 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:03 | 35.43 | 33.23 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:03 | 35.76 | 33.56 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:04 | 36.09 | 33.89 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:04 | 36.42 | 34.22 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:04 | 36.75 | 34.55 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:05 | 37.07 | 34.87 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:05 | 37.40 | 35.20 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 15:49:06 | 37.73 | 35.53 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:06 | 38.06 | 35.86 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:06 | 38.39 | 36.19 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 15:49:07 | 38.71 | 36.51 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:07 | 39.04 | 36.84 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:07 | 39.37 | 37.17 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:08 | 39.70 | 37.50 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:08 | 40.03 | 37.83 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:08 | 40.35 | 38.15 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:09 | 40.68 | 38.48 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 15:49:09 | 41.01 | 38.81 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:09 | 41.34 | 39.14 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:10 | 41.67 | 39.47 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 15:49:10 | 41.99 | 39.79 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 15:49:10 | 42.32 | 40.12 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 15:49:11 | 42.65 | 40.45 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 15:49:11 | 42.98 | 40.78 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 15:49:11 | 43.31 | 41.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:12 | 43.64 | 41.44 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:12 | 43.96 | 41.76 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:12 | 44.29 | 42.09 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:12 | 44.62 | 42.42 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 15:49:13 | 44.95 | 42.75 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 15:49:33 | 45.28 | 43.08 | 11 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 15:49:33 | 45.60 | 43.40 | 132 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 15:49:34 | 45.93 | 43.73 | 356 | 1.14 | 0.29 | 19.4 |
| 4/30/2015 15:49:35 | 46.26 | 44.06 | 476 | 1.14 | 0.29 | 26.0 |
| 4/30/2015 15:49:35 | 46.59 | 44.39 | 577 | 1.14 | 0.29 | 31.5 |
| 4/30/2015 15:49:36 | 46.92 | 44.72 | 567 | 1.14 | 0.29 | 31.0 |
| 4/30/2015 15:49:37 | 47.24 | 45.04 | 547 | 1.14 | 0.29 | 29.9 |
| 4/30/2015 15:49:37 | 47.57 | 45.37 | 526 | 1.14 | 0.29 | 28.8 |
| 4/30/2015 15:49:39 | 47.90 | 45.70 | 373 | 1.14 | 0.29 | 20.4 |
| 4/30/2015 15:49:39 | 48.23 | 46.03 | 361 | 1.14 | 0.29 | 19.7 |
| 4/30/2015 15:56:53 | 48.56 | 46.36 | 12 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 15:56:54 | 48.88 | 46.68 | 162 | 1.14 | 0.29 | 8.9 |
| 4/30/2015 15:57:32 | 49.21 | 47.01 | 15 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 15:57:32 | 49.54 | 47.34 | 123 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 15:57:33 | 49.87 | 47.67 | 123 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 15:57:34 | 50.20 | 48.00 | 217 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 15:59:19 | 50.53 | 48.33 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 15:59:20 | 50.85 | 48.65 | 163 | 1.14 | 0.29 | 8.9 |
| 4/30/2015 15:59:21 | 51.18 | 48.98 | 308 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 15:59:22 | 51.51 | 49.31 | 320 | 1.14 | 0.29 | 17.5 |
| 4/30/2015 15:59:24 | 51.84 | 49.64 | 276 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 15:59:56 | 52.17 | 49.97 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 15:59:58 | 52.49 | 50.29 | 131 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 16:00:00 | 52.82 | 50.62 | 166 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 | 16:00:02 | 53.15 | 50.95 | 166 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 | 16:01:06 | 53.48 | 51.28 | 81 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 16:01:23 | 53.81 | 51.61 | 85 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 | 16:01:27 | 54.13 | 51.93 | 92 | 1.14 | 0.29 | 5.0 |
| 4/30/2015 | 16:01:31 | 54.46 | 52.26 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 | 16:01:38 | 54.79 | 52.59 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 16:01:44 | 55.01 | 52.81 | 38 | 1.14 | 0.29 | 2.1 |

## K1011 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 15:47:22

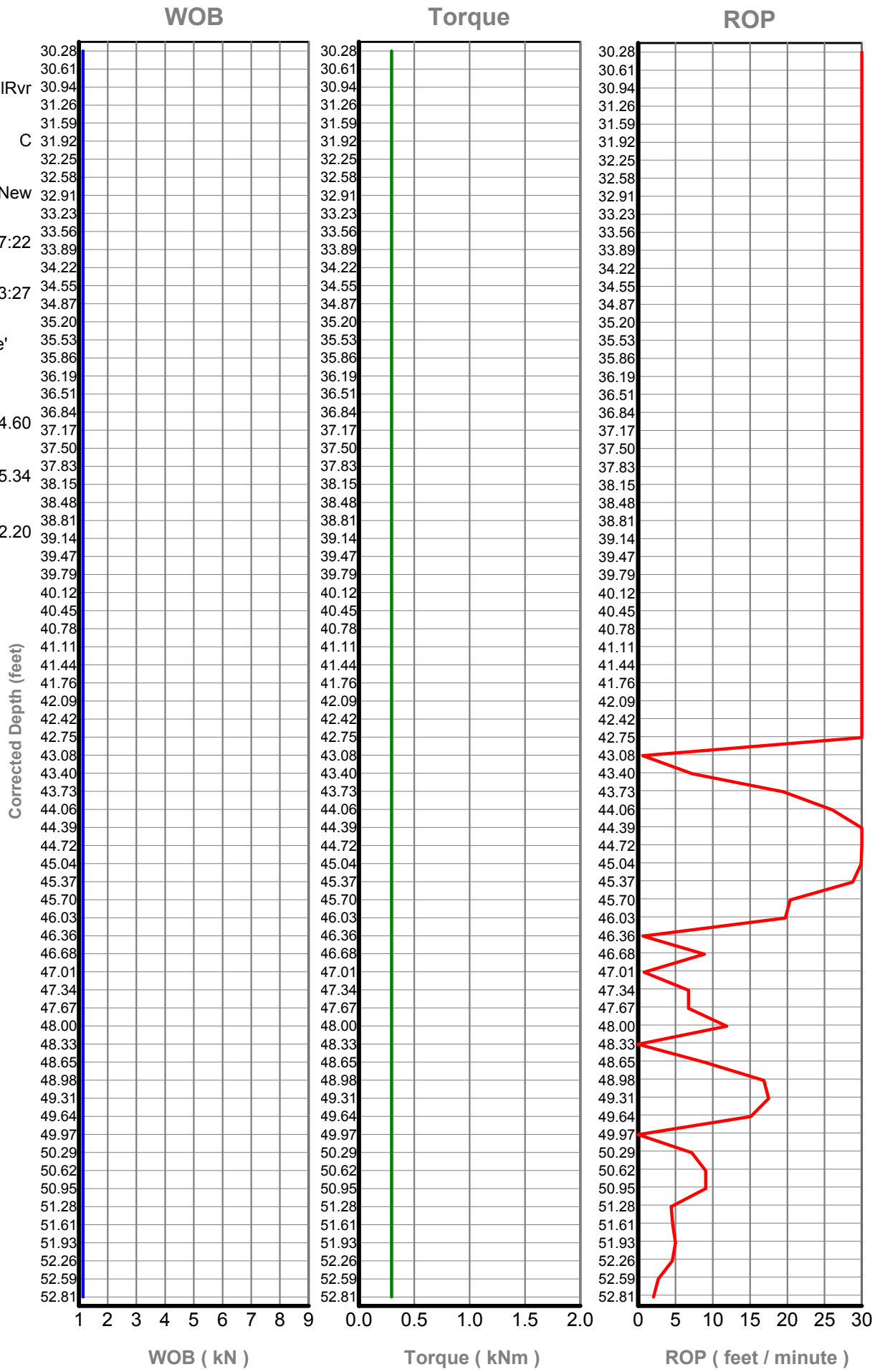
**End Date:**
4/30/2015 16:03:27

**Operator Note:**
'2.2 2.3 c Auto Complete'

**Northing:**
362,464.60

**Easting:**
245,825.34

**Tide (feet):**
2.20



## Hole: k1012 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 16:21:30 | 31.17 | 30.27 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 16:21:30 | 31.50 | 30.60 | 896 | 1.12 | 0.15 | 49.0 |
| 4/30/2015 16:21:31 | 31.82 | 30.92 | 896 | 1.12 | 0.15 | 49.0 |
| 4/30/2015 16:21:31 | 32.15 | 31.25 | 896 | 1.11 | 0.15 | 49.0 |
| 4/30/2015 16:21:32 | 32.48 | 31.58 | 900 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 16:21:32 | 32.81 | 31.91 | 898 | 1.12 | 0.15 | 49.1 |
| 4/30/2015 16:21:33 | 33.14 | 32.24 | 898 | 1.11 | 0.15 | 49.1 |
| 4/30/2015 16:21:33 | 33.46 | 32.56 | 898 | 1.11 | 0.15 | 49.1 |
| 4/30/2015 16:21:33 | 33.79 | 32.89 | 900 | 1.11 | 0.15 | 49.2 |
| 4/30/2015 16:21:34 | 34.12 | 33.22 | 892 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 16:21:34 | 34.45 | 33.55 | 892 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 16:21:35 | 34.78 | 33.88 | 892 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 16:21:35 | 35.11 | 34.21 | 892 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 16:21:35 | 35.43 | 34.53 | 888 | 1.13 | 0.15 | 48.5 |
| 4/30/2015 16:21:36 | 35.76 | 34.86 | 888 | 1.10 | 0.15 | 48.5 |
| 4/30/2015 16:21:36 | 36.09 | 35.19 | 888 | 1.10 | 0.15 | 48.5 |
| 4/30/2015 16:21:36 | 36.42 | 35.52 | 888 | 1.12 | 0.15 | 48.5 |
| 4/30/2015 16:21:37 | 36.75 | 35.85 | 886 | 1.14 | 0.15 | 48.5 |
| 4/30/2015 16:21:37 | 37.07 | 36.17 | 904 | 1.12 | 0.16 | 49.4 |
| 4/30/2015 16:21:38 | 37.40 | 36.50 | 904 | 1.12 | 0.16 | 49.4 |
| 4/30/2015 16:21:38 | 37.73 | 36.83 | 899 | 1.12 | 0.15 | 49.1 |
| 4/30/2015 16:21:38 | 38.06 | 37.16 | 890 | 1.40 | 0.15 | 48.7 |
| 4/30/2015 16:21:39 | 38.39 | 37.49 | 910 | 1.11 | 0.15 | 49.8 |
| 4/30/2015 16:21:39 | 38.71 | 37.81 | 902 | 1.12 | 0.15 | 49.3 |
| 4/30/2015 16:21:40 | 39.04 | 38.14 | 902 | 1.12 | 0.15 | 49.3 |
| 4/30/2015 16:21:40 | 39.37 | 38.47 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 16:21:40 | 39.70 | 38.80 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 16:21:41 | 40.03 | 39.13 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 16:21:41 | 40.35 | 39.45 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 16:21:42 | 40.68 | 39.78 | 902 | 1.14 | 0.15 | 49.3 |
| 4/30/2015 16:21:42 | 41.01 | 40.11 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 16:21:43 | 41.34 | 40.44 | 896 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 16:21:43 | 41.67 | 40.77 | 896 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 16:21:43 | 41.99 | 41.09 | 896 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 16:21:44 | 42.32 | 41.42 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 16:21:44 | 42.65 | 41.75 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 16:21:45 | 42.98 | 42.08 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 16:21:45 | 43.31 | 42.41 | 896 | 1.12 | 0.15 | 49.0 |
| 4/30/2015 16:21:45 | 43.64 | 42.74 | 888 | 1.13 | 0.15 | 48.6 |
| 4/30/2015 16:21:46 | 43.96 | 43.06 | 891 | 1.12 | 0.15 | 48.7 |
| 4/30/2015 16:21:46 | 44.29 | 43.39 | 873 | 1.12 | 0.15 | 47.8 |
| 4/30/2015 16:21:47 | 44.62 | 43.72 | 873 | 1.12 | 0.15 | 47.8 |
| 4/30/2015 16:21:47 | 44.95 | 44.05 | 873 | 1.11 | 0.15 | 47.8 |
| 4/30/2015 16:21:47 | 45.28 | 44.38 | 881 | 1.12 | 0.15 | 48.2 |
| 4/30/2015 16:21:48 | 45.60 | 44.70 | 886 | 1.12 | 0.15 | 48.5 |
| 4/30/2015 16:21:48 | 45.93 | 45.03 | 886 | 1.12 | 0.15 | 48.5 |
| 4/30/2015 16:21:57 | 46.26 | 45.36 | 53 | 0.53 | 1.18 | 2.9 |
| 4/30/2015 16:22:02 | 46.59 | 45.69 | 0 | 1.11 | 1.15 | 0.0 |
| 4/30/2015 16:22:05 | 46.92 | 46.02 | 104 | 1.17 | 1.29 | 5.7 |
| 4/30/2015 16:22:06 | 47.24 | 46.34 | 211 | 1.16 | 0.94 | 11.5 |
| 4/30/2015 16:22:07 | 47.57 | 46.67 | 302 | 1.13 | 1.21 | 16.5 |
| 4/30/2015 16:22:14 | 47.90 | 47.00 | 20 | 1.10 | 1.07 | 1.1 |
| 4/30/2015 16:22:15 | 48.23 | 47.33 | 145 | 1.06 | 1.25 | 7.9 |
| 4/30/2015 16:22:16 | 48.56 | 47.66 | 275 | 1.26 | 1.31 | 15.0 |
| 4/30/2015 16:22:17 | 48.88 | 47.98 | 289 | 1.14 | 1.01 | 15.8 |
| 4/30/2015 16:22:18 | 49.21 | 48.31 | 309 | 1.17 | 0.82 | 16.9 |
| 4/30/2015 16:22:19 | 49.54 | 48.64 | 356 | 1.21 | 0.94 | 19.5 |
| 4/30/2015 16:22:20 | 49.87 | 48.97 | 328 | 1.18 | 0.98 | 18.0 |
| 4/30/2015 16:22:22 | 50.20 | 49.30 | 298 | 1.13 | 1.25 | 16.3 |
| 4/30/2015 16:22:23 | 50.53 | 49.63 | 304 | 1.11 | 0.86 | 16.6 |
| 4/30/2015 16:22:24 | 50.85 | 49.95 | 342 | 1.08 | 0.88 | 18.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 16:22:25 | 51.18 | 50.28 | 376 | 0.42 | 0.84 | 20.6 |
| 4/30/2015 | 16:22:28 | 51.51 | 50.61 | 17 | 1.85 | 0.87 | 0.9 |
| 4/30/2015 | 16:22:32 | 51.84 | 50.94 | 52 | 1.19 | 0.82 | 2.8 |
| 4/30/2015 | 16:22:34 | 52.17 | 51.27 | 190 | 1.14 | 0.83 | 10.4 |
| 4/30/2015 | 16:22:35 | 52.49 | 51.59 | 274 | 1.17 | 0.85 | 15.0 |
| 4/30/2015 | 16:22:35 | 52.82 | 51.92 | 357 | 1.12 | 0.82 | 19.5 |
| 4/30/2015 | 16:22:36 | 53.15 | 52.25 | 417 | 1.16 | 0.83 | 22.8 |
| 4/30/2015 | 16:22:37 | 53.48 | 52.58 | 349 | 1.11 | 0.76 | 19.1 |
| 4/30/2015 | 16:22:38 | 53.81 | 52.91 | 363 | 1.09 | 0.75 | 19.9 |
| 4/30/2015 | 16:22:39 | 54.13 | 53.23 | 369 | 1.10 | 0.74 | 20.2 |
| 4/30/2015 | 16:22:40 | 54.46 | 53.56 | 460 | 1.09 | 0.76 | 25.2 |
| 4/30/2015 | 16:22:40 | 54.79 | 53.89 | 465 | 1.15 | 0.74 | 25.5 |
| 4/30/2015 | 16:22:41 | 55.12 | 54.22 | 457 | 1.13 | 0.76 | 25.0 |
| 4/30/2015 | 16:22:42 | 55.45 | 54.55 | 454 | 1.15 | 0.89 | 24.8 |
| 4/30/2015 | 16:22:43 | 55.77 | 54.87 | 434 | 1.13 | 1.04 | 23.7 |
| 4/30/2015 | 16:22:44 | 56.10 | 55.20 | 388 | 1.15 | 0.99 | 21.2 |
| 4/30/2015 | 16:22:45 | 56.43 | 55.53 | 365 | 1.11 | 1.00 | 20.0 |
| 4/30/2015 | 16:22:46 | 56.76 | 55.86 | 364 | 1.15 | 1.46 | 19.9 |
| 4/30/2015 | 16:22:47 | 57.09 | 56.19 | 329 | 1.09 | 1.15 | 18.0 |
| 4/30/2015 | 16:22:48 | 57.13 | 56.23 | 308 | 0.67 | 1.01 | 16.8 |

## k1012 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/30/2015 16:19:23

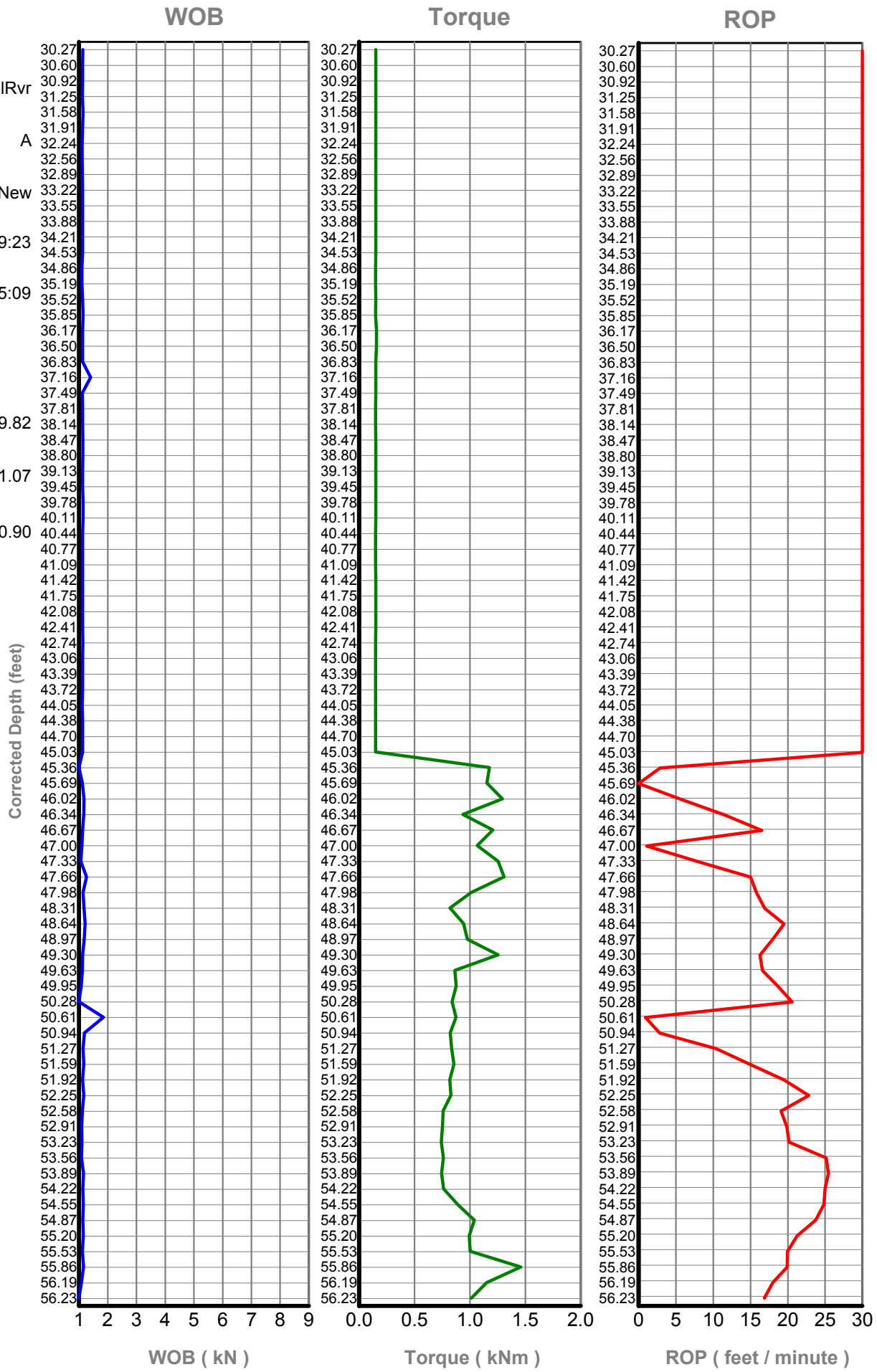
**End Date:**
4/30/2015 16:25:09

**Operator Note:**
1.9 a Auto Complete

**Northing:**
362,529.82

**Easting:**
245,301.07

**Tide (feet):**
0.90



## Hole: K1013 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 16:23:40 | 31.82 | 30.12 | 1,228 | 0.29 | 0.36 | 67.1 |
| 4/30/2015 16:23:41 | 32.15 | 30.45 | 1,228 | 0.29 | 0.36 | 67.1 |
| 4/30/2015 16:23:41 | 32.48 | 30.78 | 1,250 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 16:23:41 | 32.81 | 31.11 | 1,263 | 0.29 | 0.37 | 69.1 |
| 4/30/2015 16:23:42 | 33.14 | 31.44 | 1,263 | 0.29 | 0.37 | 69.1 |
| 4/30/2015 16:23:42 | 33.46 | 31.76 | 1,255 | 0.29 | 0.36 | 68.6 |
| 4/30/2015 16:23:42 | 33.79 | 32.09 | 1,255 | 0.29 | 0.36 | 68.6 |
| 4/30/2015 16:23:42 | 34.12 | 32.42 | 1,231 | 0.29 | 0.36 | 67.3 |
| 4/30/2015 16:23:43 | 34.45 | 32.75 | 1,231 | 0.29 | 0.36 | 67.3 |
| 4/30/2015 16:23:43 | 34.78 | 33.08 | 1,227 | 0.29 | 0.36 | 67.1 |
| 4/30/2015 16:23:43 | 35.11 | 33.41 | 1,227 | 0.29 | 0.36 | 67.1 |
| 4/30/2015 16:23:43 | 35.43 | 33.73 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/30/2015 16:23:44 | 35.76 | 34.06 | 1,239 | 0.29 | 0.36 | 67.8 |
| 4/30/2015 16:23:44 | 36.09 | 34.39 | 1,239 | 0.29 | 0.36 | 67.8 |
| 4/30/2015 16:23:44 | 36.42 | 34.72 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 16:23:45 | 36.75 | 35.05 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 16:23:45 | 37.07 | 35.37 | 1,232 | 0.29 | 0.37 | 67.3 |
| 4/30/2015 16:23:45 | 37.40 | 35.70 | 1,232 | 0.29 | 0.37 | 67.3 |
| 4/30/2015 16:23:45 | 37.73 | 36.03 | 1,239 | 0.29 | 0.38 | 67.8 |
| 4/30/2015 16:23:46 | 38.06 | 36.36 | 1,239 | 0.29 | 0.38 | 67.8 |
| 4/30/2015 16:23:46 | 38.39 | 36.69 | 1,226 | 0.29 | 0.37 | 67.0 |
| 4/30/2015 16:23:46 | 38.71 | 37.01 | 1,221 | 0.29 | 0.37 | 66.8 |
| 4/30/2015 16:23:47 | 39.04 | 37.34 | 1,221 | 0.29 | 0.37 | 66.8 |
| 4/30/2015 16:23:47 | 39.37 | 37.67 | 1,224 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 16:23:47 | 39.70 | 38.00 | 1,224 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 16:23:47 | 40.03 | 38.33 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 16:23:48 | 40.35 | 38.65 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 16:23:48 | 40.68 | 38.98 | 1,227 | 0.29 | 0.37 | 67.1 |
| 4/30/2015 16:23:48 | 41.01 | 39.31 | 1,227 | 0.29 | 0.37 | 67.1 |
| 4/30/2015 16:23:48 | 41.34 | 39.64 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 16:23:49 | 41.67 | 39.97 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 16:23:49 | 41.99 | 40.29 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 16:23:49 | 42.32 | 40.62 | 1,240 | 0.29 | 0.36 | 67.8 |
| 4/30/2015 16:23:50 | 42.65 | 40.95 | 1,240 | 0.29 | 0.36 | 67.8 |
| 4/30/2015 16:23:50 | 42.98 | 41.28 | 1,237 | 0.29 | 0.37 | 67.6 |
| 4/30/2015 16:23:51 | 43.31 | 41.61 | 1,237 | 0.29 | 0.37 | 67.6 |
| 4/30/2015 16:23:51 | 43.64 | 41.94 | 1,231 | 0.29 | 0.36 | 67.3 |
| 4/30/2015 16:23:51 | 43.96 | 42.26 | 1,231 | 0.29 | 0.36 | 67.3 |
| 4/30/2015 16:23:51 | 44.29 | 42.59 | 1,231 | 0.29 | 0.35 | 67.3 |
| 4/30/2015 16:23:52 | 44.62 | 42.92 | 1,226 | 0.29 | 0.38 | 67.0 |
| 4/30/2015 16:23:52 | 44.95 | 43.25 | 1,226 | 0.29 | 0.38 | 67.0 |
| 4/30/2015 16:23:52 | 45.28 | 43.58 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 16:23:53 | 45.60 | 43.90 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 16:23:53 | 45.93 | 44.23 | 1,229 | 0.29 | 0.37 | 67.2 |
| 4/30/2015 16:23:53 | 46.26 | 44.56 | 1,229 | 0.29 | 0.37 | 67.2 |
| 4/30/2015 16:23:53 | 46.59 | 44.89 | 1,221 | 0.27 | 0.43 | 66.8 |
| 4/30/2015 16:24:04 | 46.92 | 45.22 | 0 | 2.91 | 0.41 | 0.0 |
| 4/30/2015 16:24:06 | 47.24 | 45.54 | 185 | 3.16 | 0.42 | 10.1 |
| 4/30/2015 16:24:06 | 47.57 | 45.87 | 300 | 3.75 | 0.43 | 16.4 |
| 4/30/2015 16:24:07 | 47.90 | 46.20 | 367 | 2.78 | 0.40 | 20.1 |
| 4/30/2015 16:24:16 | 48.23 | 46.53 | 3 | 3.73 | 0.46 | 0.2 |
| 4/30/2015 16:24:20 | 48.56 | 46.86 | 17 | 6.03 | 0.41 | 0.9 |
| 4/30/2015 16:24:25 | 48.88 | 47.18 | 0 | 5.06 | 0.46 | 0.0 |
| 4/30/2015 16:24:28 | 49.21 | 47.51 | 67 | 5.26 | 0.45 | 3.6 |
| 4/30/2015 16:24:29 | 49.54 | 47.84 | 222 | 2.98 | 0.42 | 12.2 |
| 4/30/2015 16:24:46 | 49.87 | 48.17 | 9 | 3.59 | 0.43 | 0.5 |
| 4/30/2015 16:24:46 | 50.20 | 48.50 | 90 | 3.79 | 0.42 | 4.9 |
| 4/30/2015 16:24:52 | 50.53 | 48.83 | 71 | 4.40 | 0.39 | 3.9 |
| 4/30/2015 16:24:57 | 50.85 | 49.15 | 28 | 3.18 | 0.43 | 1.5 |
| 4/30/2015 16:24:58 | 51.18 | 49.48 | 92 | 3.63 | 0.42 | 5.1 |
| 4/30/2015 16:24:58 | 51.51 | 49.81 | 187 | 2.96 | 0.40 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 16:24:59 | 51.84 | 50.14 | 187 | 2.10 | 0.38 | 10.2 |
| 4/30/2015 | 16:25:02 | 52.17 | 50.47 | 164 | 1.98 | 0.39 | 9.0 |
| 4/30/2015 | 16:25:03 | 52.49 | 50.79 | 22 | 2.55 | 0.41 | 1.2 |
| 4/30/2015 | 16:25:05 | 52.82 | 51.12 | 192 | 3.39 | 0.44 | 10.5 |
| 4/30/2015 | 16:25:06 | 53.15 | 51.45 | 247 | 3.03 | 0.44 | 13.5 |
| 4/30/2015 | 16:25:07 | 53.48 | 51.78 | 308 | 3.18 | 0.44 | 16.8 |
| 4/30/2015 | 16:25:08 | 53.81 | 52.11 | 322 | 2.43 | 0.44 | 17.6 |
| 4/30/2015 | 16:25:09 | 54.13 | 52.43 | 348 | 2.21 | 0.41 | 19.0 |
| 4/30/2015 | 16:25:09 | 54.46 | 52.76 | 408 | 2.35 | 0.42 | 22.3 |
| 4/30/2015 | 16:25:10 | 54.79 | 53.09 | 408 | 2.55 | 0.41 | 22.3 |
| 4/30/2015 | 16:25:11 | 55.12 | 53.42 | 396 | 3.09 | 0.44 | 21.6 |
| 4/30/2015 | 16:25:12 | 55.45 | 53.75 | 319 | 4.34 | 0.47 | 17.4 |
| 4/30/2015 | 16:25:14 | 55.77 | 54.07 | 272 | 3.12 | 0.46 | 14.9 |
| 4/30/2015 | 16:25:17 | 56.10 | 54.40 | 120 | 3.88 | 0.43 | 6.6 |
| 4/30/2015 | 16:25:18 | 56.43 | 54.73 | 181 | 3.09 | 0.44 | 9.9 |
| 4/30/2015 | 16:25:20 | 56.76 | 55.06 | 262 | 4.09 | 0.44 | 14.3 |
| 4/30/2015 | 16:25:21 | 56.96 | 55.26 | 145 | 5.74 | 0.44 | 7.9 |

## K1013 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
4/30/2015 16:21:13

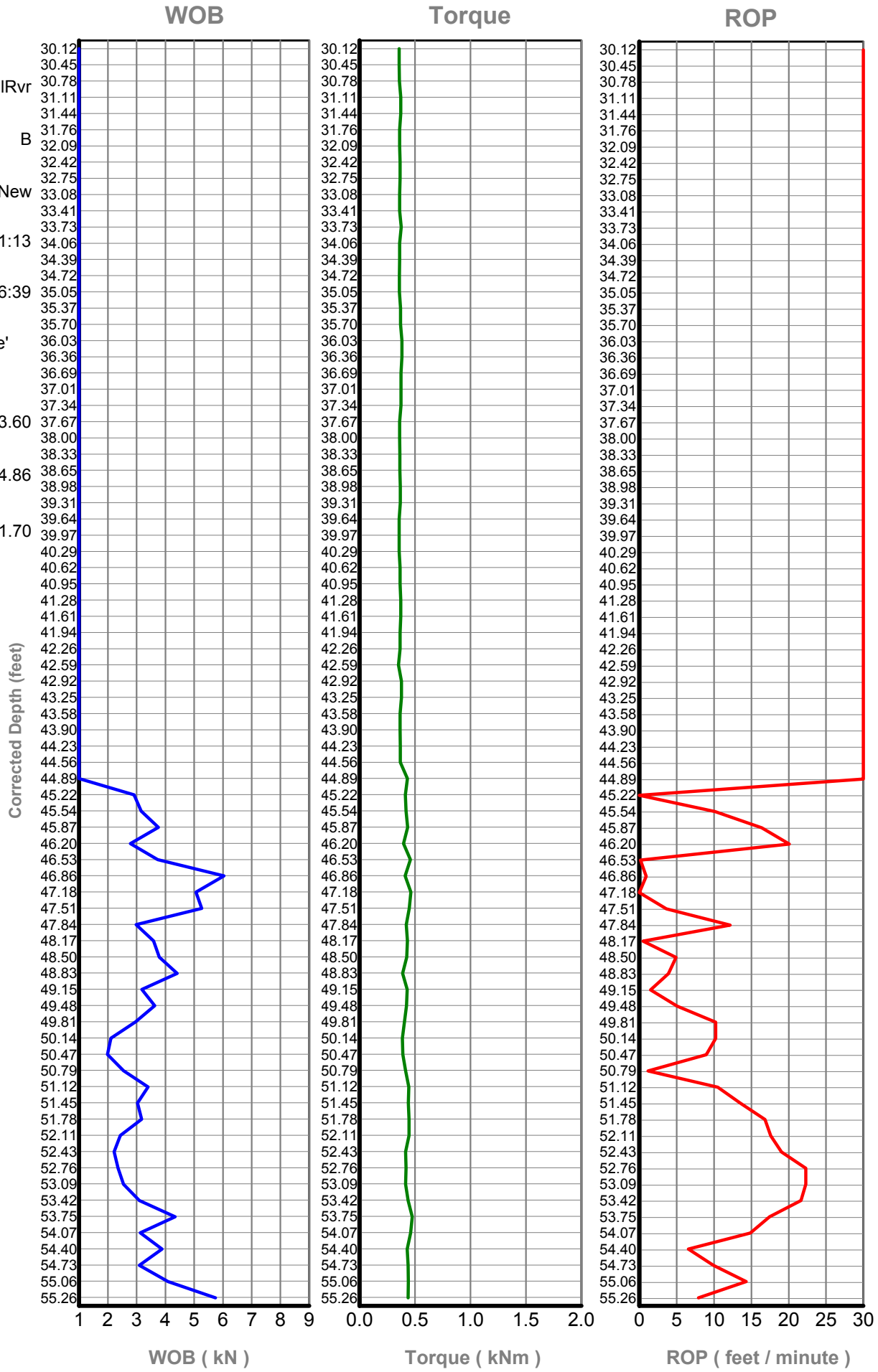
**End Date:**
4/30/2015 16:26:39

**Operator Note:**
'1.7 1.9 b Auto Complete'

**Northing:**
362,363.60

**Easting:**
245,814.86

**Tide (feet):**
1.70



## Hole: K1014 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 16:21:50 | 31.82 | 30.02 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:50 | 32.15 | 30.35 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 16:21:50 | 32.48 | 30.68 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 16:21:51 | 32.81 | 31.01 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 16:21:51 | 33.14 | 31.34 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 16:21:51 | 33.46 | 31.66 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:52 | 33.79 | 31.99 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:52 | 34.12 | 32.32 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 16:21:52 | 34.45 | 32.65 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:53 | 34.78 | 32.98 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:53 | 35.11 | 33.31 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:53 | 35.43 | 33.63 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:54 | 35.76 | 33.96 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 16:21:54 | 36.09 | 34.29 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:54 | 36.42 | 34.62 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:54 | 36.75 | 34.95 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 16:21:55 | 37.07 | 35.27 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:55 | 37.40 | 35.60 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:55 | 37.73 | 35.93 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 16:21:56 | 38.06 | 36.26 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 16:21:56 | 38.39 | 36.59 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 16:21:56 | 38.71 | 36.91 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 16:21:57 | 39.04 | 37.24 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:58 | 39.37 | 37.57 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:57 | 39.70 | 37.90 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:58 | 40.03 | 38.23 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:59 | 40.35 | 38.55 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:21:59 | 40.68 | 38.88 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:59 | 41.01 | 39.21 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:21:59 | 41.34 | 39.54 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 16:22:00 | 41.67 | 39.87 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:22:00 | 41.99 | 40.19 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:22:00 | 42.32 | 40.52 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 16:22:01 | 42.65 | 40.85 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 16:22:01 | 42.98 | 41.18 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 16:22:01 | 43.31 | 41.51 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 16:22:02 | 43.64 | 41.84 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 16:22:02 | 43.96 | 42.16 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 16:22:02 | 44.29 | 42.49 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 16:22:03 | 44.62 | 42.82 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 16:22:03 | 44.95 | 43.15 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 16:22:03 | 45.28 | 43.48 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 16:22:35 | 45.60 | 43.80 | 48 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 16:22:36 | 45.93 | 44.13 | 149 | 1.14 | 0.29 | 8.1 |
| 4/30/2015 16:23:06 | 46.26 | 44.46 | 121 | 1.14 | 0.29 | 6.6 |
| 4/30/2015 16:23:34 | 46.59 | 44.79 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 16:23:34 | 46.92 | 45.12 | 74 | 1.14 | 0.29 | 4.1 |
| 4/30/2015 16:24:27 | 47.24 | 45.44 | 11 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 16:24:27 | 47.57 | 45.77 | 135 | 1.14 | 0.29 | 7.4 |
| 4/30/2015 16:24:28 | 47.90 | 46.10 | 283 | 1.14 | 0.29 | 15.5 |
| 4/30/2015 16:24:52 | 48.23 | 46.43 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 16:25:32 | 48.56 | 46.76 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 16:25:58 | 48.88 | 47.08 | 15 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 16:25:58 | 49.21 | 47.41 | 109 | 1.14 | 0.29 | 6.0 |
| 4/30/2015 16:25:59 | 49.54 | 47.74 | 224 | 1.14 | 0.29 | 12.2 |
| 4/30/2015 16:25:59 | 49.87 | 48.07 | 347 | 1.14 | 0.29 | 19.0 |
| 4/30/2015 16:26:00 | 50.20 | 48.40 | 476 | 1.14 | 0.29 | 26.0 |
| 4/30/2015 16:26:02 | 50.53 | 48.73 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 16:26:03 | 50.85 | 49.05 | 144 | 1.14 | 0.29 | 7.9 |
| 4/30/2015 16:26:04 | 51.18 | 49.38 | 360 | 1.14 | 0.29 | 19.7 |
| 4/30/2015 16:26:04 | 51.51 | 49.71 | 457 | 1.14 | 0.29 | 25.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 16:26:06 | 51.84 | 50.04 | 518 | 1.14 | 0.29 | 28.4 |
| 4/30/2015 | 16:26:06 | 52.17 | 50.37 | 495 | 1.14 | 0.29 | 27.0 |
| 4/30/2015 | 16:26:49 | 52.49 | 50.69 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 16:26:50 | 52.82 | 51.02 | 97 | 1.14 | 0.29 | 5.3 |
| 4/30/2015 | 16:26:51 | 53.15 | 51.35 | 225 | 1.14 | 0.29 | 12.3 |
| 4/30/2015 | 16:26:52 | 53.48 | 51.68 | 337 | 1.14 | 0.29 | 18.4 |
| 4/30/2015 | 16:26:53 | 53.81 | 52.01 | 378 | 1.14 | 0.29 | 20.7 |
| 4/30/2015 | 16:27:39 | 54.13 | 52.33 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 | 16:27:41 | 54.46 | 52.66 | 180 | 1.14 | 0.29 | 9.8 |
| 4/30/2015 | 16:27:49 | 54.79 | 52.99 | 99 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 | 16:27:50 | 55.12 | 53.32 | 238 | 1.14 | 0.29 | 13.0 |
| 4/30/2015 | 16:27:50 | 55.45 | 53.65 | 327 | 1.14 | 0.29 | 17.9 |
| 4/30/2015 | 16:27:52 | 55.77 | 53.97 | 381 | 1.14 | 0.29 | 20.9 |
| 4/30/2015 | 16:28:00 | 56.10 | 54.30 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 16:28:01 | 56.43 | 54.63 | 80 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 16:28:01 | 56.76 | 54.96 | 192 | 1.14 | 0.29 | 10.5 |
| 4/30/2015 | 16:28:02 | 57.09 | 55.29 | 329 | 1.14 | 0.29 | 18.0 |
| 4/30/2015 | 16:28:02 | 57.41 | 55.61 | 526 | 1.14 | 0.29 | 28.8 |
| 4/30/2015 | 16:28:03 | 57.72 | 55.92 | 669 | 1.14 | 0.29 | 36.6 |

## K1014 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 16:20:19

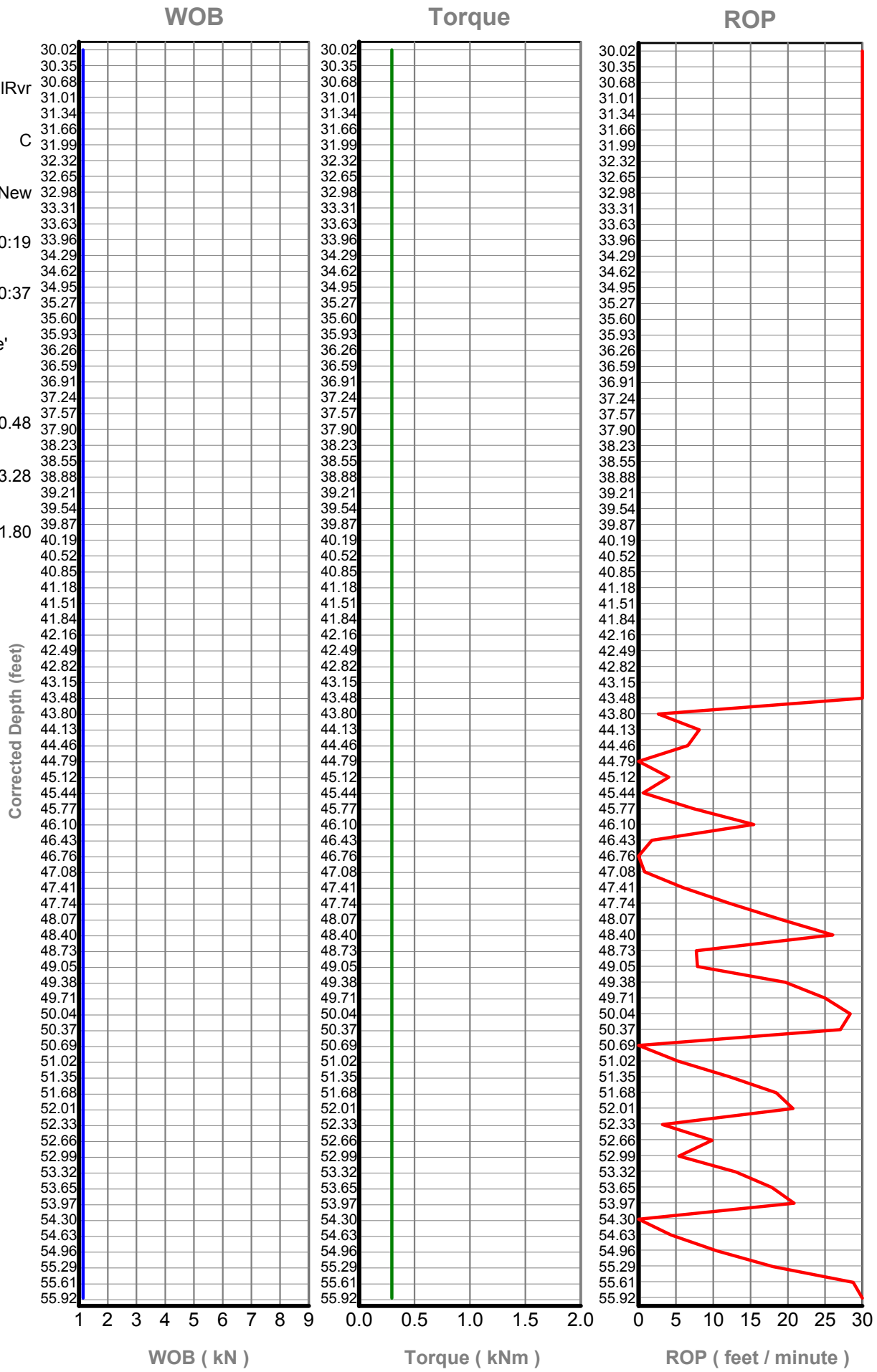
**End Date:**
4/30/2015 16:30:37

**Operator Note:**
'1.8 1.9 c Auto Complete'

**Northing:**
362,410.48

**Easting:**
245,873.28

**Tide (feet):**
1.80



## Hole: K102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:53:44 | 34.78 | 30.18 | 1,199 | 0.29 | 0.34 | 65.6 |
| 4/30/2015 0:53:45 | 35.11 | 30.51 | 1,199 | 0.29 | 0.34 | 65.6 |
| 4/30/2015 0:53:45 | 35.43 | 30.83 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 0:53:45 | 35.76 | 31.16 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 0:53:45 | 36.09 | 31.49 | 1,200 | 0.29 | 0.36 | 65.6 |
| 4/30/2015 0:53:46 | 36.42 | 31.82 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 0:53:46 | 36.75 | 32.15 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 0:53:46 | 37.07 | 32.47 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 0:53:47 | 37.40 | 32.80 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 0:53:47 | 37.73 | 33.13 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 0:53:47 | 38.06 | 33.46 | 1,177 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 0:53:48 | 38.39 | 33.79 | 1,177 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 0:53:48 | 38.71 | 34.11 | 1,179 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 0:53:48 | 39.04 | 34.44 | 1,179 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 0:53:48 | 39.37 | 34.77 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:53:49 | 39.70 | 35.10 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:53:49 | 40.03 | 35.43 | 1,159 | 0.30 | 0.38 | 63.4 |
| 4/30/2015 0:53:49 | 40.35 | 35.75 | 1,172 | 0.30 | 0.36 | 64.1 |
| 4/30/2015 0:53:50 | 40.68 | 36.08 | 1,172 | 0.30 | 0.36 | 64.1 |
| 4/30/2015 0:53:50 | 41.01 | 36.41 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 0:53:50 | 41.34 | 36.74 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 0:53:50 | 41.67 | 37.07 | 1,171 | 0.29 | 0.36 | 64.0 |
| 4/30/2015 0:53:51 | 41.99 | 37.39 | 1,171 | 0.29 | 0.36 | 64.0 |
| 4/30/2015 0:53:51 | 42.32 | 37.72 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 0:53:51 | 42.65 | 38.05 | 1,204 | 0.30 | 0.37 | 65.8 |
| 4/30/2015 0:53:52 | 42.98 | 38.38 | 1,204 | 0.30 | 0.37 | 65.8 |
| 4/30/2015 0:53:52 | 43.31 | 38.71 | 1,191 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 0:53:53 | 43.64 | 39.04 | 1,191 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 0:53:53 | 43.96 | 39.36 | 1,182 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 0:53:53 | 44.29 | 39.69 | 1,182 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 0:53:53 | 44.62 | 40.02 | 1,191 | 0.30 | 0.36 | 65.1 |
| 4/30/2015 0:53:54 | 44.95 | 40.35 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 0:53:54 | 45.28 | 40.68 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 0:53:54 | 45.60 | 41.00 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 0:53:55 | 45.93 | 41.33 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 0:53:55 | 46.26 | 41.66 | 1,188 | 0.33 | 0.37 | 65.0 |
| 4/30/2015 0:53:55 | 46.59 | 41.99 | 1,188 | 0.33 | 0.37 | 65.0 |
| 4/30/2015 0:53:55 | 46.92 | 42.32 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 0:53:56 | 47.24 | 42.64 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 0:53:56 | 47.57 | 42.97 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 0:53:56 | 47.90 | 43.30 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 0:53:57 | 48.23 | 43.63 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 0:53:57 | 48.56 | 43.96 | 1,184 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 0:53:57 | 48.88 | 44.28 | 1,191 | 0.30 | 0.37 | 65.1 |
| 4/30/2015 0:53:58 | 49.21 | 44.61 | 1,191 | 0.30 | 0.37 | 65.1 |
| 4/30/2015 0:53:58 | 49.54 | 44.94 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 0:53:58 | 49.87 | 45.27 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 0:53:58 | 50.20 | 45.60 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 0:53:59 | 50.53 | 45.93 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 0:54:02 | 50.85 | 46.25 | 35 | 4.16 | 0.45 | 1.9 |
| 4/30/2015 0:54:05 | 51.18 | 46.58 | 104 | 3.88 | 0.47 | 5.7 |
| 4/30/2015 0:54:07 | 51.51 | 46.91 | 158 | 2.78 | 0.42 | 8.7 |
| 4/30/2015 0:54:07 | 51.84 | 47.24 | 265 | 3.05 | 0.42 | 14.5 |
| 4/30/2015 0:54:08 | 52.17 | 47.57 | 265 | 3.50 | 0.42 | 14.5 |
| 4/30/2015 0:54:09 | 52.49 | 47.89 | 427 | 3.64 | 0.45 | 23.4 |
| 4/30/2015 0:54:13 | 52.82 | 48.22 | 93 | 3.89 | 0.46 | 5.1 |
| 4/30/2015 0:54:18 | 53.15 | 48.55 | 58 | 3.28 | 0.46 | 3.2 |
| 4/30/2015 0:54:25 | 53.48 | 48.88 | 56 | 3.02 | 0.46 | 3.0 |
| 4/30/2015 0:54:31 | 53.81 | 49.21 | 60 | 3.11 | 0.46 | 3.3 |
| 4/30/2015 0:54:35 | 54.06 | 49.46 | 71 | 3.12 | 0.46 | 3.9 |

## K102 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:52:15

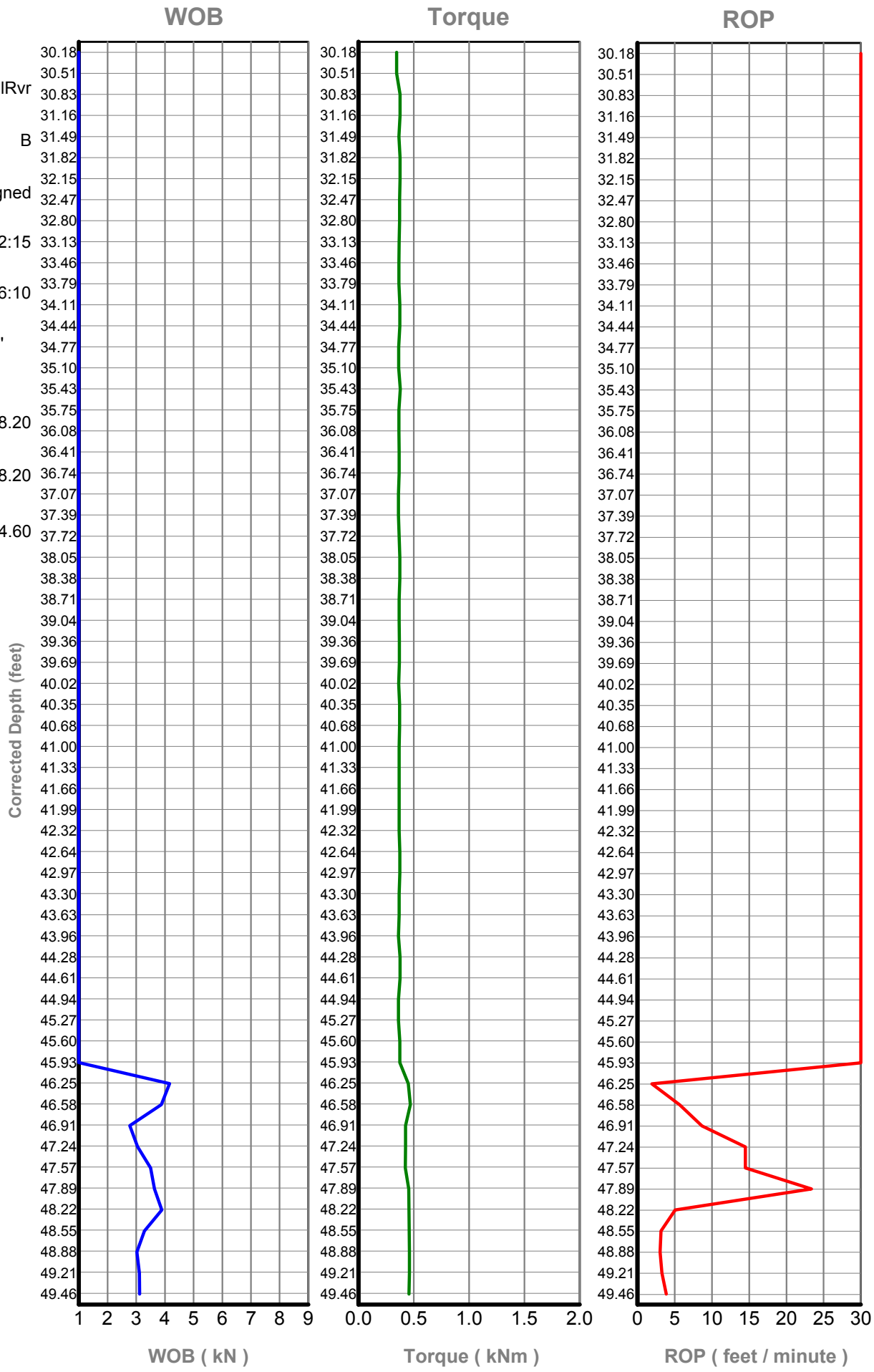
**End Date:**
4/30/2015 0:56:10

**Operator Note:**
'4.6 4.7b Auto Complete'

**Northing:**
362,398.20

**Easting:**
245,498.20

**Tide (feet):**
4.60



## Hole: K103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:52:09 | 34.78 | 30.18 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:52:09 | 35.11 | 30.51 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:52:09 | 35.43 | 30.83 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:52:10 | 35.76 | 31.16 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:52:10 | 36.09 | 31.49 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:52:10 | 36.42 | 31.82 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 0:52:11 | 36.75 | 32.15 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 0:52:11 | 37.07 | 32.47 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:52:11 | 37.40 | 32.80 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:52:12 | 37.73 | 33.13 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:52:12 | 38.06 | 33.46 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 0:52:12 | 38.39 | 33.79 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:52:13 | 38.71 | 34.11 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:52:13 | 39.04 | 34.44 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:13 | 39.37 | 34.77 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:13 | 39.70 | 35.10 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 0:52:14 | 40.03 | 35.43 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 0:52:15 | 40.35 | 35.75 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 0:52:14 | 40.68 | 36.08 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 0:52:15 | 41.01 | 36.41 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 0:52:16 | 41.34 | 36.74 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 0:52:16 | 41.67 | 37.07 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 0:52:16 | 41.99 | 37.39 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 0:52:16 | 42.32 | 37.72 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 0:52:17 | 42.65 | 38.05 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 0:52:17 | 42.98 | 38.38 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 0:52:17 | 43.31 | 38.71 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 0:52:18 | 43.64 | 39.04 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 0:52:18 | 43.96 | 39.36 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 0:52:18 | 44.29 | 39.69 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 0:52:19 | 44.62 | 40.02 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 0:52:19 | 44.95 | 40.35 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:19 | 45.28 | 40.68 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 0:52:20 | 45.60 | 41.00 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 0:52:20 | 45.93 | 41.33 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:20 | 46.26 | 41.66 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:21 | 46.59 | 41.99 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:21 | 46.92 | 42.32 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:21 | 47.24 | 42.64 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:22 | 47.57 | 42.97 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:22 | 47.90 | 43.30 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:22 | 48.23 | 43.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 0:52:22 | 48.56 | 43.96 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 0:52:23 | 48.88 | 44.28 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 0:52:23 | 49.21 | 44.61 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 0:52:23 | 49.54 | 44.94 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 0:52:35 | 49.87 | 45.27 | 96 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 0:52:41 | 50.20 | 45.60 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 0:52:52 | 50.53 | 45.93 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 0:53:04 | 50.85 | 46.25 | 31 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 0:53:14 | 51.18 | 46.58 | 29 | 1.14 | 0.29 | 1.6 |

## K103 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:51:15

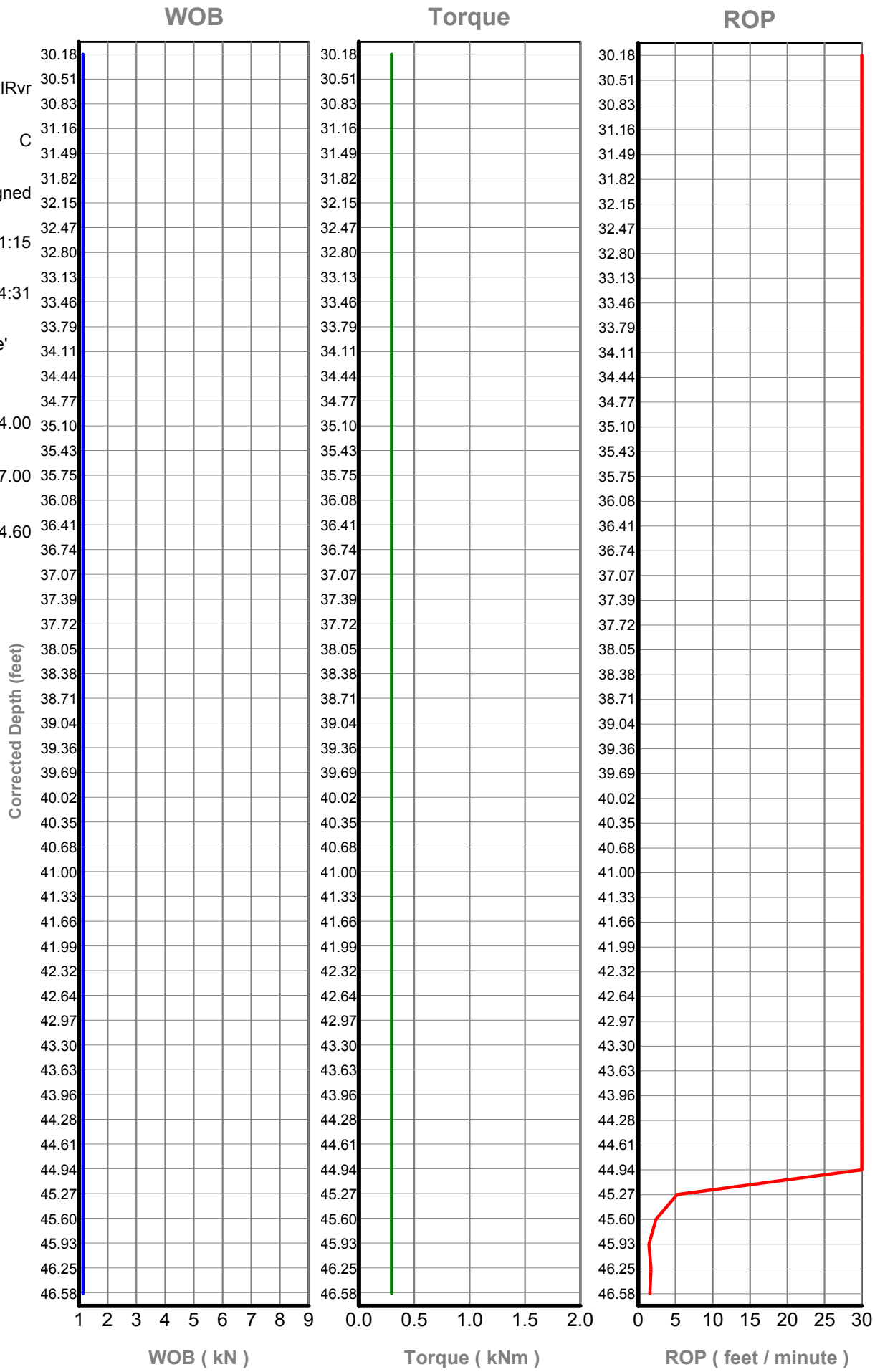
**End Date:**
4/30/2015 0:54:31

**Operator Note:**
'4.6 4.7 c Auto Complete'

**Northing:**
362,444.00

**Easting:**
245,557.00

**Tide (feet):**
4.60



## Hole: K104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:08:15 | 36.42 | 30.22 | 1,302 | 1.81 | 0.22 | 71.2 |
| 4/29/2015 23:08:16 | 36.75 | 30.55 | 1,302 | 1.81 | 0.22 | 71.2 |
| 4/29/2015 23:08:16 | 37.07 | 30.87 | 1,302 | 1.81 | 0.22 | 71.2 |
| 4/29/2015 23:08:16 | 37.40 | 31.20 | 1,311 | 1.81 | 0.22 | 71.7 |
| 4/29/2015 23:08:17 | 37.73 | 31.53 | 1,311 | 1.81 | 0.22 | 71.7 |
| 4/29/2015 23:08:17 | 38.06 | 31.86 | 1,321 | 1.83 | 0.22 | 72.2 |
| 4/29/2015 23:08:17 | 38.39 | 32.19 | 1,321 | 1.83 | 0.22 | 72.2 |
| 4/29/2015 23:08:17 | 38.71 | 32.51 | 1,311 | 1.81 | 0.22 | 71.7 |
| 4/29/2015 23:08:18 | 39.04 | 32.84 | 1,311 | 1.81 | 0.22 | 71.7 |
| 4/29/2015 23:08:18 | 39.37 | 33.17 | 1,328 | 1.78 | 0.22 | 72.6 |
| 4/29/2015 23:08:18 | 39.70 | 33.50 | 1,328 | 1.78 | 0.22 | 72.6 |
| 4/29/2015 23:08:18 | 40.03 | 33.83 | 1,356 | 1.81 | 0.22 | 74.1 |
| 4/29/2015 23:08:19 | 40.35 | 34.15 | 1,356 | 1.81 | 0.22 | 74.1 |
| 4/29/2015 23:08:19 | 40.68 | 34.48 | 1,336 | 1.81 | 0.22 | 73.1 |
| 4/29/2015 23:08:19 | 41.01 | 34.81 | 1,331 | 1.81 | 0.22 | 72.8 |
| 4/29/2015 23:08:20 | 41.34 | 35.14 | 1,331 | 1.81 | 0.22 | 72.8 |
| 4/29/2015 23:08:20 | 41.67 | 35.47 | 1,303 | 1.80 | 0.22 | 71.3 |
| 4/29/2015 23:08:20 | 41.99 | 35.79 | 1,303 | 1.80 | 0.22 | 71.3 |
| 4/29/2015 23:08:20 | 42.32 | 36.12 | 1,303 | 1.80 | 0.22 | 71.3 |
| 4/29/2015 23:08:21 | 42.65 | 36.45 | 1,303 | 1.80 | 0.22 | 71.3 |
| 4/29/2015 23:08:21 | 42.98 | 36.78 | 1,293 | 1.81 | 0.22 | 70.7 |
| 4/29/2015 23:08:21 | 43.31 | 37.11 | 1,293 | 1.81 | 0.22 | 70.7 |
| 4/29/2015 23:08:21 | 43.64 | 37.44 | 1,293 | 1.81 | 0.22 | 70.7 |
| 4/29/2015 23:08:22 | 43.96 | 37.76 | 1,293 | 1.81 | 0.22 | 70.7 |
| 4/29/2015 23:08:22 | 44.29 | 38.09 | 1,314 | 1.81 | 0.22 | 71.8 |
| 4/29/2015 23:08:23 | 44.62 | 38.42 | 1,314 | 1.81 | 0.22 | 71.8 |
| 4/29/2015 23:08:22 | 44.95 | 38.75 | 1,280 | 1.81 | 0.22 | 70.0 |
| 4/29/2015 23:08:23 | 45.28 | 39.08 | 1,280 | 1.81 | 0.22 | 70.0 |
| 4/29/2015 23:08:23 | 45.60 | 39.40 | 1,291 | 1.81 | 0.22 | 70.6 |
| 4/29/2015 23:08:23 | 45.93 | 39.73 | 1,291 | 1.81 | 0.22 | 70.6 |
| 4/29/2015 23:08:23 | 46.26 | 40.06 | 1,291 | 1.80 | 0.22 | 70.6 |
| 4/29/2015 23:08:24 | 46.59 | 40.39 | 1,291 | 1.80 | 0.22 | 70.6 |
| 4/29/2015 23:08:24 | 46.92 | 40.72 | 1,337 | 1.81 | 0.20 | 73.1 |
| 4/29/2015 23:08:24 | 47.24 | 41.04 | 1,337 | 1.81 | 0.20 | 73.1 |
| 4/29/2015 23:08:24 | 47.57 | 41.37 | 1,339 | 1.81 | 0.22 | 73.2 |
| 4/29/2015 23:08:25 | 47.90 | 41.70 | 1,339 | 1.81 | 0.22 | 73.2 |
| 4/29/2015 23:08:25 | 48.23 | 42.03 | 1,307 | 1.82 | 0.22 | 71.5 |
| 4/29/2015 23:08:26 | 48.56 | 42.36 | 1,307 | 1.82 | 0.22 | 71.5 |
| 4/29/2015 23:08:26 | 48.88 | 42.68 | 1,352 | 1.80 | 0.22 | 73.9 |
| 4/29/2015 23:08:26 | 49.21 | 43.01 | 1,352 | 1.80 | 0.22 | 73.9 |
| 4/29/2015 23:08:26 | 49.54 | 43.34 | 1,317 | 1.83 | 0.22 | 72.0 |
| 4/29/2015 23:08:27 | 49.87 | 43.67 | 1,317 | 1.83 | 0.22 | 72.0 |
| 4/29/2015 23:08:27 | 50.20 | 44.00 | 1,317 | 1.83 | 0.22 | 72.0 |
| 4/29/2015 23:08:27 | 50.53 | 44.33 | 1,316 | 1.79 | 0.22 | 71.9 |
| 4/29/2015 23:08:28 | 50.85 | 44.65 | 1,316 | 1.79 | 0.22 | 71.9 |
| 4/29/2015 23:08:28 | 51.18 | 44.98 | 1,316 | 1.82 | 0.22 | 72.0 |
| 4/29/2015 23:08:28 | 51.51 | 45.31 | 1,316 | 1.82 | 0.22 | 72.0 |
| 4/29/2015 23:08:28 | 51.84 | 45.64 | 1,323 | 1.80 | 0.22 | 72.4 |
| 4/29/2015 23:08:29 | 52.17 | 45.97 | 1,323 | 1.80 | 0.22 | 72.4 |
| 4/29/2015 23:08:29 | 52.49 | 46.29 | 1,318 | 1.07 | 0.17 | 72.1 |
| 4/29/2015 23:08:44 | 52.82 | 46.62 | 74 | 1.12 | 0.97 | 4.0 |
| 4/29/2015 23:08:47 | 53.15 | 46.95 | 244 | 1.13 | 1.18 | 13.4 |
| 4/29/2015 23:08:49 | 53.48 | 47.28 | 119 | 1.12 | 1.07 | 6.5 |
| 4/29/2015 23:08:52 | 53.81 | 47.61 | 161 | 1.18 | 1.27 | 8.8 |
| 4/29/2015 23:08:56 | 54.13 | 47.93 | 83 | 1.10 | 1.02 | 4.5 |
| 4/29/2015 23:09:00 | 54.46 | 48.26 | 96 | 1.11 | 1.03 | 5.2 |
| 4/29/2015 23:09:03 | 54.79 | 48.59 | 101 | 1.13 | 1.03 | 5.5 |
| 4/29/2015 23:09:11 | 55.12 | 48.92 | 65 | 1.19 | 1.22 | 3.6 |
| 4/29/2015 23:09:15 | 55.45 | 49.25 | 78 | 1.08 | 1.06 | 4.3 |
| 4/29/2015 23:09:18 | 55.77 | 49.57 | 140 | 1.03 | 1.00 | 7.7 |
| 4/29/2015 23:09:19 | 56.10 | 49.90 | 256 | 1.23 | 0.68 | 14.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:09:20 | 56.43 | 50.23 | 316 | 1.12 | 0.86 | 17.3 |
| 4/29/2015 | 23:09:29 | 56.76 | 50.56 | 72 | 1.02 | 0.97 | 3.9 |
| 4/29/2015 | 23:09:38 | 57.09 | 50.89 | 35 | 1.08 | 0.78 | 1.9 |
| 4/29/2015 | 23:09:47 | 57.41 | 51.21 | 38 | 1.05 | 0.89 | 2.1 |
| 4/29/2015 | 23:09:56 | 57.70 | 51.50 | 35 | 1.19 | 0.87 | 1.9 |

## K104 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:06:30

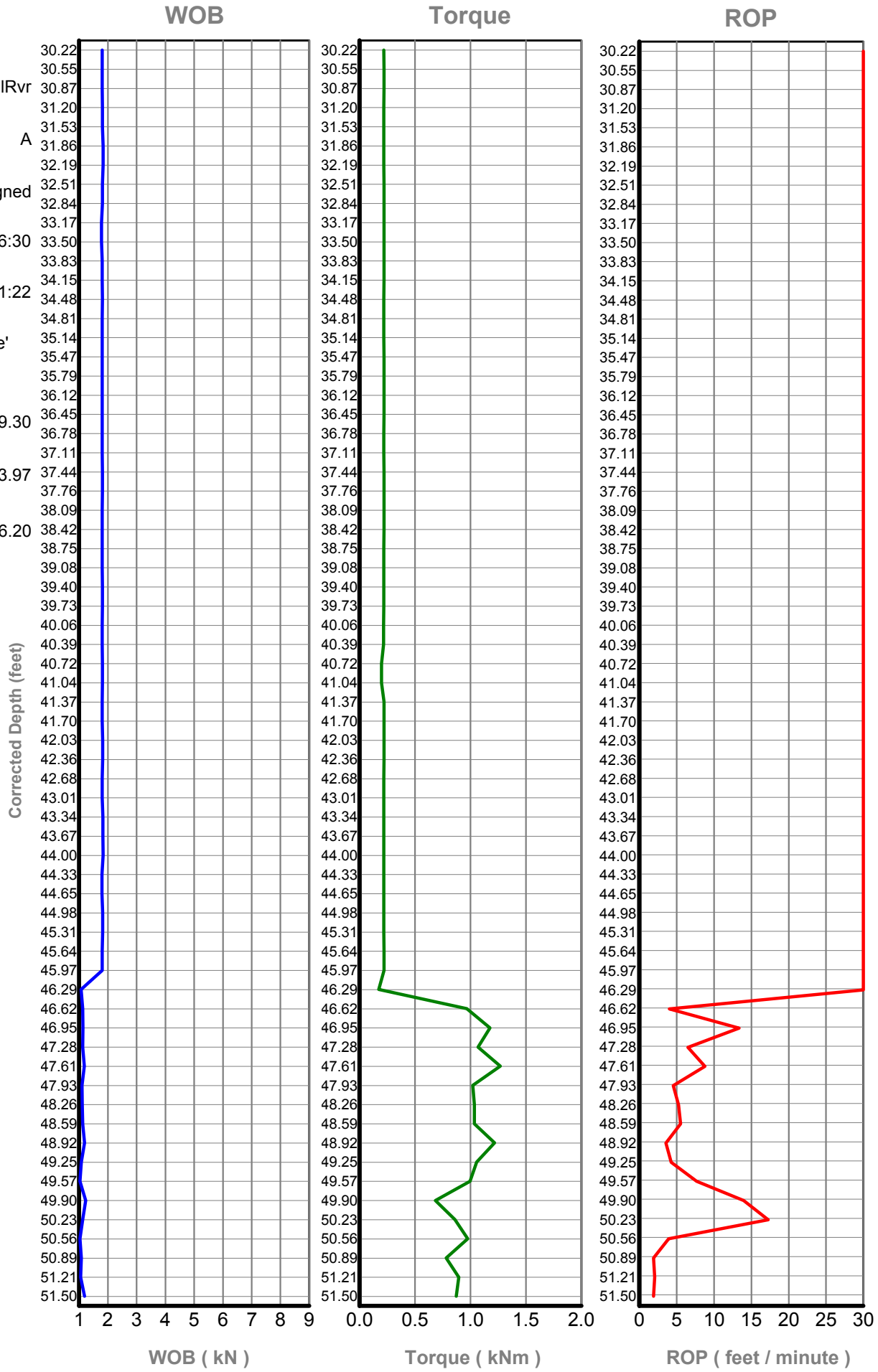
**End Date:**
4/29/2015 23:11:22

**Operator Note:**
'6.2 6.2 b Auto Complete'

**Northing:**
362,489.30

**Easting:**
245,613.97

**Tide (feet):**
6.20



## Hole: K105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:09:17 | 36.42 | 30.22 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 23:09:18 | 36.75 | 30.55 | 1,104 | 0.33 | 0.39 | 60.4 |
| 4/29/2015 23:09:18 | 37.07 | 30.87 | 1,104 | 0.33 | 0.39 | 60.4 |
| 4/29/2015 23:09:18 | 37.40 | 31.20 | 1,111 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 23:09:19 | 37.73 | 31.53 | 1,111 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 23:09:19 | 38.06 | 31.86 | 1,104 | 0.33 | 0.39 | 60.4 |
| 4/29/2015 23:09:19 | 38.39 | 32.19 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 23:09:20 | 38.71 | 32.51 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 23:09:20 | 39.04 | 32.84 | 1,101 | 0.33 | 0.39 | 60.2 |
| 4/29/2015 23:09:20 | 39.37 | 33.17 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:21 | 39.70 | 33.50 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:21 | 40.03 | 33.83 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 23:09:21 | 40.35 | 34.15 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 23:09:21 | 40.68 | 34.48 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:22 | 41.01 | 34.81 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:22 | 41.34 | 35.14 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:22 | 41.67 | 35.47 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/29/2015 23:09:23 | 41.99 | 35.79 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/29/2015 23:09:23 | 42.32 | 36.12 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:24 | 42.65 | 36.45 | 1,119 | 0.33 | 0.39 | 61.2 |
| 4/29/2015 23:09:24 | 42.98 | 36.78 | 1,119 | 0.33 | 0.39 | 61.2 |
| 4/29/2015 23:09:24 | 43.31 | 37.11 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 23:09:25 | 43.64 | 37.44 | 1,113 | 0.33 | 0.39 | 60.9 |
| 4/29/2015 23:09:25 | 43.96 | 37.76 | 1,113 | 0.33 | 0.39 | 60.9 |
| 4/29/2015 23:09:25 | 44.29 | 38.09 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 23:09:26 | 44.62 | 38.42 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 23:09:26 | 44.95 | 38.75 | 1,098 | 0.33 | 0.38 | 60.0 |
| 4/29/2015 23:09:26 | 45.28 | 39.08 | 1,105 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 23:09:27 | 45.60 | 39.40 | 1,105 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 23:09:27 | 45.93 | 39.73 | 1,123 | 0.35 | 0.39 | 61.4 |
| 4/29/2015 23:09:27 | 46.26 | 40.06 | 1,123 | 0.35 | 0.39 | 61.4 |
| 4/29/2015 23:09:27 | 46.59 | 40.39 | 1,117 | 0.33 | 0.38 | 61.1 |
| 4/29/2015 23:09:28 | 46.92 | 40.72 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/29/2015 23:09:28 | 47.24 | 41.04 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/29/2015 23:09:28 | 47.57 | 41.37 | 1,129 | 0.37 | 0.38 | 61.8 |
| 4/29/2015 23:09:29 | 47.90 | 41.70 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 23:09:29 | 48.23 | 42.03 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 23:09:29 | 48.56 | 42.36 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/29/2015 23:09:30 | 48.88 | 42.68 | 1,116 | 0.33 | 0.39 | 61.0 |
| 4/29/2015 23:09:30 | 49.21 | 43.01 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 23:09:30 | 49.54 | 43.34 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 23:09:31 | 49.87 | 43.67 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 23:09:31 | 50.20 | 44.00 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 23:09:31 | 50.53 | 44.33 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 23:09:31 | 50.85 | 44.65 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:32 | 51.18 | 44.98 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:32 | 51.51 | 45.31 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 23:09:32 | 51.84 | 45.64 | 1,113 | 0.31 | 0.43 | 60.9 |
| 4/29/2015 23:09:37 | 52.17 | 45.97 | 81 | 4.19 | 0.45 | 4.5 |
| 4/29/2015 23:09:39 | 52.49 | 46.29 | 46 | 3.82 | 0.43 | 2.5 |
| 4/29/2015 23:09:40 | 52.82 | 46.62 | 250 | 3.23 | 0.45 | 13.7 |
| 4/29/2015 23:09:41 | 53.15 | 46.95 | 330 | 3.64 | 0.46 | 18.0 |
| 4/29/2015 23:09:43 | 53.48 | 47.28 | 325 | 3.36 | 0.46 | 17.8 |
| 4/29/2015 23:09:46 | 53.81 | 47.61 | 151 | 4.00 | 0.47 | 8.3 |
| 4/29/2015 23:09:48 | 54.13 | 47.93 | 130 | 3.83 | 0.47 | 7.1 |
| 4/29/2015 23:09:52 | 54.46 | 48.26 | 107 | 3.85 | 0.47 | 5.8 |
| 4/29/2015 23:09:56 | 54.79 | 48.59 | 87 | 3.60 | 0.47 | 4.7 |
| 4/29/2015 23:10:00 | 55.12 | 48.92 | 84 | 3.71 | 0.47 | 4.6 |
| 4/29/2015 23:10:04 | 55.45 | 49.25 | 87 | 4.04 | 0.48 | 4.8 |
| 4/29/2015 23:10:08 | 55.77 | 49.57 | 87 | 3.93 | 0.47 | 4.7 |
| 4/29/2015 23:10:12 | 56.10 | 49.90 | 93 | 3.94 | 0.47 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:10:16 | 56.43 | 50.23 | 84 | 4.17 | 0.46 | 4.6 |
| 4/29/2015 | 23:10:21 | 56.76 | 50.56 | 72 | 3.28 | 0.47 | 3.9 |
| 4/29/2015 | 23:10:26 | 57.09 | 50.89 | 81 | 3.54 | 0.46 | 4.4 |
| 4/29/2015 | 23:10:30 | 57.41 | 51.21 | 83 | 3.73 | 0.47 | 4.6 |
| 4/29/2015 | 23:10:34 | 57.74 | 51.54 | 72 | 4.39 | 0.48 | 4.0 |
| 4/29/2015 | 23:10:40 | 58.07 | 51.87 | 67 | 3.86 | 0.47 | 3.7 |
| 4/29/2015 | 23:10:45 | 58.40 | 52.20 | 74 | 3.55 | 0.47 | 4.1 |
| 4/29/2015 | 23:10:50 | 58.73 | 52.53 | 76 | 3.54 | 0.47 | 4.1 |
| 4/29/2015 | 23:10:54 | 59.06 | 52.86 | 84 | 3.56 | 0.47 | 4.6 |
| 4/29/2015 | 23:10:59 | 59.38 | 53.18 | 77 | 3.39 | 0.47 | 4.2 |
| 4/29/2015 | 23:11:03 | 59.71 | 53.51 | 87 | 3.62 | 0.47 | 4.7 |
| 4/29/2015 | 23:11:08 | 60.04 | 53.84 | 84 | 3.88 | 0.47 | 4.6 |
| 4/29/2015 | 23:11:12 | 60.37 | 54.17 | 77 | 3.60 | 0.47 | 4.2 |
| 4/29/2015 | 23:11:16 | 60.70 | 54.50 | 93 | 3.60 | 0.47 | 5.1 |
| 4/29/2015 | 23:11:21 | 61.02 | 54.82 | 78 | 3.79 | 0.47 | 4.3 |
| 4/29/2015 | 23:11:23 | 61.17 | 54.97 | 78 | 3.81 | 0.47 | 4.3 |

## K105 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:07:45

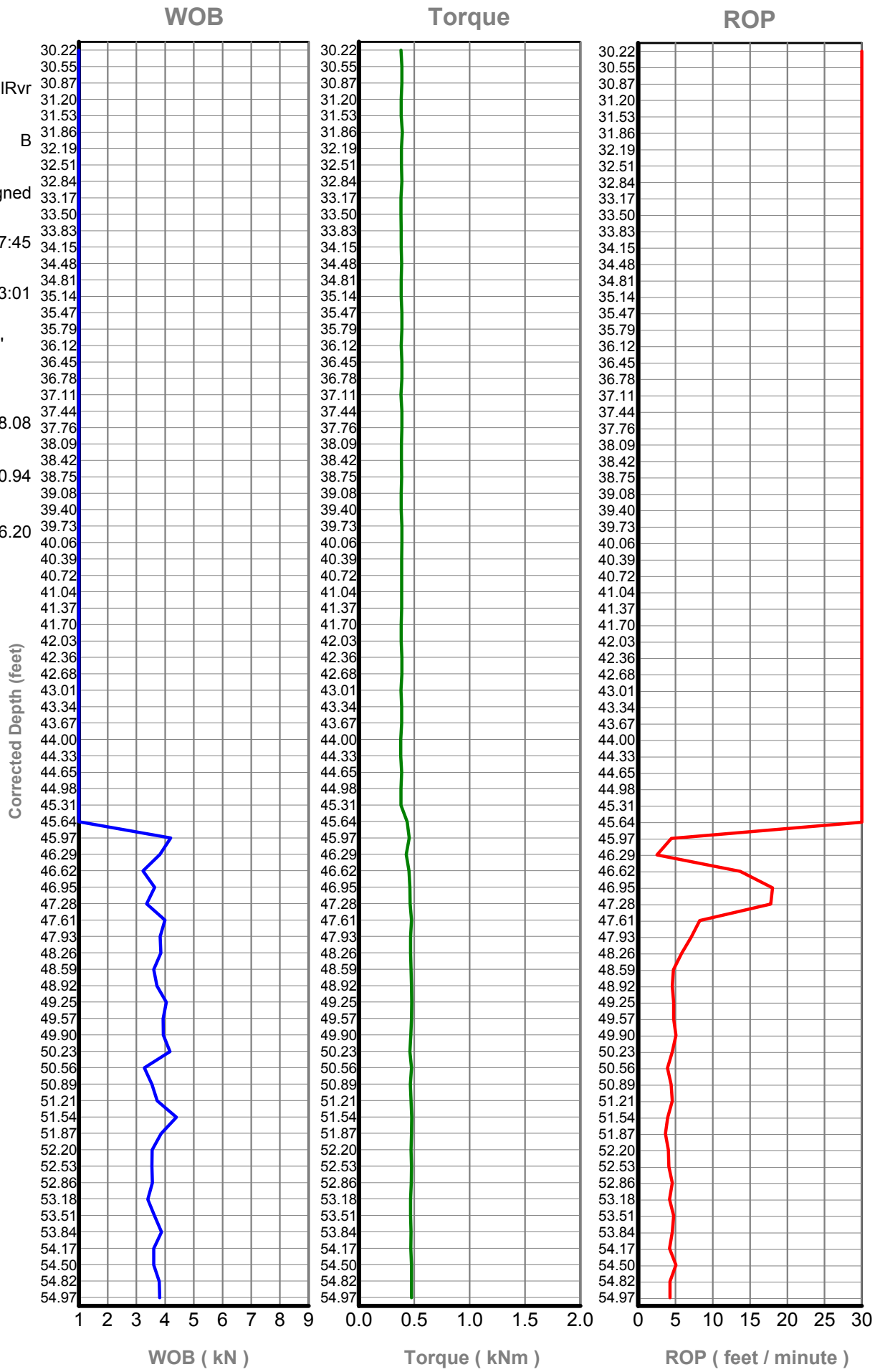
**End Date:**
4/29/2015 23:13:01

**Operator Note:**
'6.2 6.2b Auto Complete'

**Northing:**
362,538.08

**Easting:**
245,670.94

**Tide (feet):**
6.20



## Hole: K106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:07:43 | 36.42 | 30.22 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 23:07:44 | 36.75 | 30.55 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 23:07:44 | 37.07 | 30.87 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 23:07:44 | 37.40 | 31.20 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 23:07:45 | 37.73 | 31.53 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 23:07:45 | 38.06 | 31.86 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 23:07:45 | 38.39 | 32.19 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 23:07:45 | 38.71 | 32.51 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 23:07:46 | 39.04 | 32.84 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 23:07:46 | 39.37 | 33.17 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 23:07:46 | 39.70 | 33.50 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:47 | 40.03 | 33.83 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:47 | 40.35 | 34.15 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:47 | 40.68 | 34.48 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:48 | 41.01 | 34.81 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:48 | 41.34 | 35.14 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:48 | 41.67 | 35.47 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:49 | 41.99 | 35.79 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:49 | 42.32 | 36.12 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:49 | 42.65 | 36.45 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:49 | 42.98 | 36.78 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 23:07:50 | 43.31 | 37.11 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:50 | 43.64 | 37.44 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:50 | 43.96 | 37.76 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:51 | 44.29 | 38.09 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:51 | 44.62 | 38.42 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 23:07:51 | 44.95 | 38.75 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 23:07:52 | 45.28 | 39.08 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 23:07:52 | 45.60 | 39.40 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 23:07:52 | 45.93 | 39.73 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:07:53 | 46.26 | 40.06 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:07:53 | 46.59 | 40.39 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:07:53 | 46.92 | 40.72 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:07:54 | 47.24 | 41.04 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 23:07:54 | 47.57 | 41.37 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 23:07:55 | 47.90 | 41.70 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 23:07:55 | 48.23 | 42.03 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 23:07:55 | 48.56 | 42.36 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 23:07:55 | 48.88 | 42.68 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 23:07:56 | 49.21 | 43.01 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 23:07:56 | 49.54 | 43.34 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 23:07:56 | 49.87 | 43.67 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 23:07:57 | 50.20 | 44.00 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 23:07:57 | 50.53 | 44.33 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 23:07:57 | 50.85 | 44.65 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:07:58 | 51.18 | 44.98 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 23:08:06 | 51.51 | 45.31 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 23:08:08 | 51.84 | 45.64 | 103 | 1.14 | 0.29 | 5.6 |
| 4/29/2015 23:08:09 | 52.17 | 45.97 | 211 | 1.14 | 0.29 | 11.6 |
| 4/29/2015 23:08:09 | 52.49 | 46.29 | 317 | 1.14 | 0.29 | 17.3 |
| 4/29/2015 23:08:10 | 52.82 | 46.62 | 403 | 1.14 | 0.29 | 22.0 |
| 4/29/2015 23:08:24 | 53.15 | 46.95 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 23:08:25 | 53.48 | 47.28 | 151 | 1.14 | 0.29 | 8.2 |
| 4/29/2015 23:08:26 | 53.81 | 47.61 | 305 | 1.14 | 0.29 | 16.7 |
| 4/29/2015 23:08:27 | 54.13 | 47.93 | 422 | 1.14 | 0.29 | 23.1 |
| 4/29/2015 23:08:35 | 54.46 | 48.26 | 25 | 1.14 | 0.29 | 1.4 |
| 4/29/2015 23:08:37 | 54.79 | 48.59 | 176 | 1.14 | 0.29 | 9.6 |
| 4/29/2015 23:08:40 | 55.12 | 48.92 | 152 | 1.14 | 0.29 | 8.3 |
| 4/29/2015 23:08:41 | 55.45 | 49.25 | 201 | 1.14 | 0.29 | 11.0 |
| 4/29/2015 23:08:43 | 55.77 | 49.57 | 213 | 1.14 | 0.29 | 11.6 |
| 4/29/2015 23:08:48 | 56.10 | 49.90 | 75 | 1.14 | 0.29 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:08:52 | 56.43 | 50.23 | 86 | 1.14 | 0.29 | 4.7 |
| 4/29/2015 | 23:08:58 | 56.76 | 50.56 | 58 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 | 23:09:04 | 57.09 | 50.89 | 57 | 1.14 | 0.29 | 3.1 |
| 4/29/2015 | 23:09:10 | 57.41 | 51.21 | 55 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 | 23:09:16 | 57.74 | 51.54 | 70 | 1.14 | 0.29 | 3.8 |

## K106 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:06:47

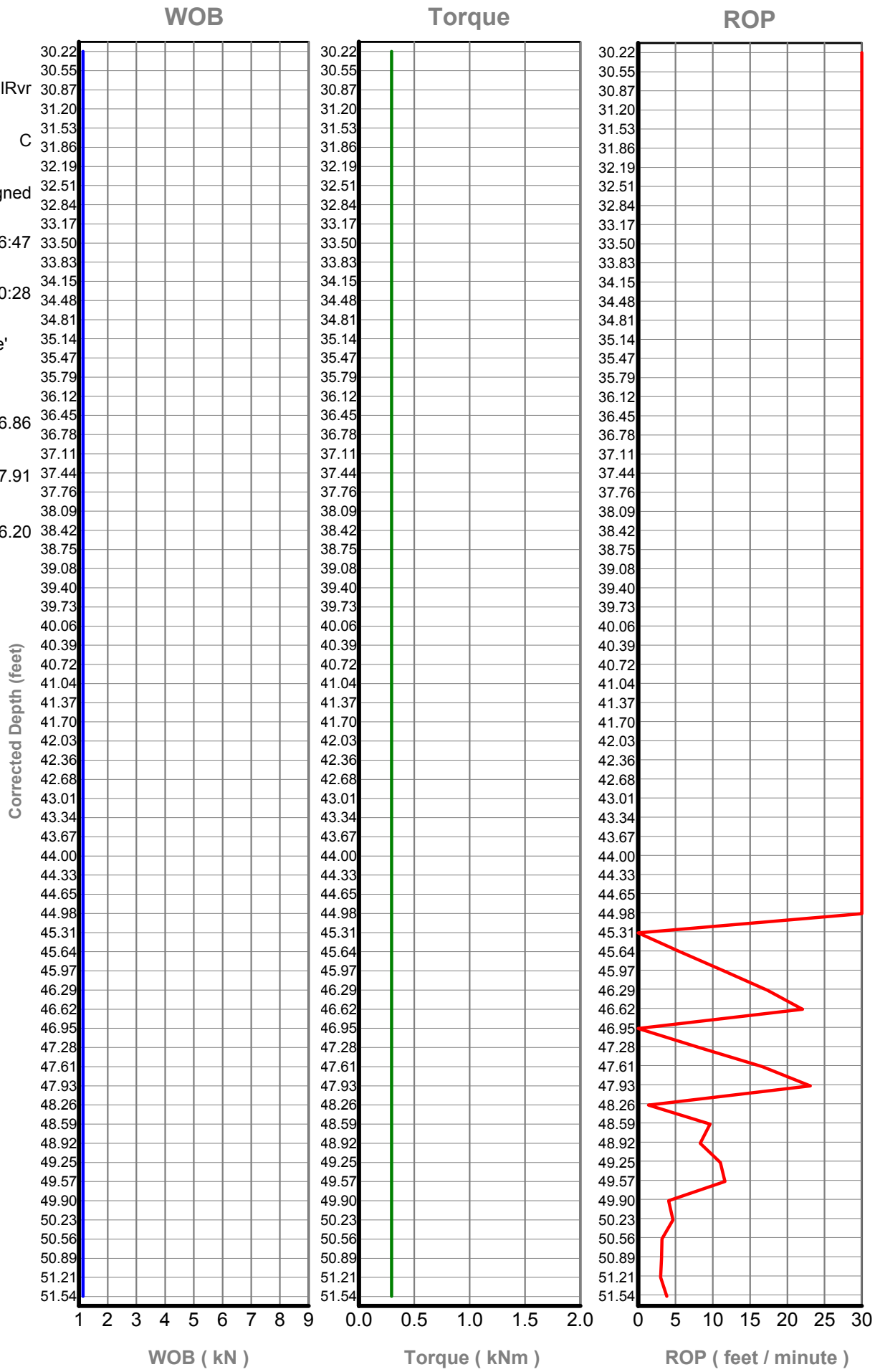
**End Date:**
4/29/2015 23:10:28

**Operator Note:**
'6.2 6.2 c Auto Complete'

**Northing:**
362,586.86

**Easting:**
245,727.91

**Tide (feet):**
6.20



## Hole: K107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 21:56:43 | 36.42 | 30.12 | 1,365 | 1.88 | 0.80 | 74.7 |
| 4/29/2015 21:56:43 | 36.75 | 30.45 | 1,365 | 1.88 | 0.80 | 74.7 |
| 4/29/2015 21:56:43 | 37.07 | 30.77 | 1,368 | 1.90 | 0.81 | 74.8 |
| 4/29/2015 21:56:43 | 37.40 | 31.10 | 1,368 | 1.90 | 0.81 | 74.8 |
| 4/29/2015 21:56:44 | 37.73 | 31.43 | 1,338 | 1.88 | 0.80 | 73.2 |
| 4/29/2015 21:56:44 | 38.06 | 31.76 | 1,338 | 1.91 | 0.81 | 73.2 |
| 4/29/2015 21:56:44 | 38.39 | 32.09 | 1,338 | 1.91 | 0.81 | 73.2 |
| 4/29/2015 21:56:45 | 38.71 | 32.41 | 1,338 | 1.91 | 0.81 | 73.2 |
| 4/29/2015 21:56:45 | 39.04 | 32.74 | 1,362 | 1.90 | 0.80 | 74.5 |
| 4/29/2015 21:56:45 | 39.37 | 33.07 | 1,362 | 1.90 | 0.80 | 74.5 |
| 4/29/2015 21:56:46 | 39.70 | 33.40 | 1,344 | 1.89 | 0.80 | 73.5 |
| 4/29/2015 21:56:46 | 40.03 | 33.73 | 1,344 | 1.90 | 0.23 | 73.5 |
| 4/29/2015 21:56:46 | 40.35 | 34.05 | 1,344 | 1.90 | 0.23 | 73.5 |
| 4/29/2015 21:56:46 | 40.68 | 34.38 | 1,349 | 1.90 | 0.22 | 73.8 |
| 4/29/2015 21:56:47 | 41.01 | 34.71 | 1,349 | 1.90 | 0.22 | 73.8 |
| 4/29/2015 21:56:47 | 41.34 | 35.04 | 1,349 | 1.90 | 0.22 | 73.8 |
| 4/29/2015 21:56:47 | 41.67 | 35.37 | 1,349 | 1.89 | 0.22 | 73.7 |
| 4/29/2015 21:56:47 | 41.99 | 35.69 | 1,349 | 1.89 | 0.22 | 73.7 |
| 4/29/2015 21:56:47 | 42.32 | 36.02 | 1,379 | 1.91 | 0.22 | 75.4 |
| 4/29/2015 21:56:48 | 42.65 | 36.35 | 1,379 | 1.91 | 0.22 | 75.4 |
| 4/29/2015 21:56:48 | 42.98 | 36.68 | 1,366 | 1.89 | 0.22 | 74.7 |
| 4/29/2015 21:56:48 | 43.31 | 37.01 | 1,366 | 1.89 | 0.22 | 74.7 |
| 4/29/2015 21:56:48 | 43.64 | 37.34 | 1,372 | 1.90 | 0.22 | 75.0 |
| 4/29/2015 21:56:49 | 43.96 | 37.66 | 1,372 | 1.90 | 0.22 | 75.0 |
| 4/29/2015 21:56:49 | 44.29 | 37.99 | 1,371 | 1.88 | 0.23 | 74.9 |
| 4/29/2015 21:56:49 | 44.62 | 38.32 | 1,371 | 1.88 | 0.23 | 74.9 |
| 4/29/2015 21:56:49 | 44.95 | 38.65 | 1,371 | 1.87 | 0.22 | 74.9 |
| 4/29/2015 21:56:50 | 45.28 | 38.98 | 1,371 | 1.87 | 0.22 | 74.9 |
| 4/29/2015 21:56:50 | 45.60 | 39.30 | 1,365 | 1.89 | 0.22 | 74.7 |
| 4/29/2015 21:56:50 | 45.93 | 39.63 | 1,365 | 1.89 | 0.22 | 74.7 |
| 4/29/2015 21:56:51 | 46.26 | 39.96 | 1,365 | 1.93 | 0.22 | 74.7 |
| 4/29/2015 21:56:51 | 46.59 | 40.29 | 1,365 | 1.93 | 0.22 | 74.7 |
| 4/29/2015 21:56:51 | 46.92 | 40.62 | 1,372 | 1.95 | 0.22 | 75.0 |
| 4/29/2015 21:56:52 | 47.24 | 40.94 | 1,324 | 1.81 | 0.21 | 72.4 |
| 4/29/2015 21:56:52 | 47.57 | 41.27 | 1,324 | 1.81 | 0.21 | 72.4 |
| 4/29/2015 21:56:52 | 47.90 | 41.60 | 1,266 | 1.02 | 0.18 | 69.2 |
| 4/29/2015 21:56:53 | 48.23 | 41.93 | 1,266 | 1.03 | 0.18 | 69.2 |
| 4/29/2015 21:56:53 | 48.56 | 42.26 | 1,130 | 1.03 | 0.18 | 61.8 |
| 4/29/2015 21:56:54 | 48.88 | 42.58 | 976 | 1.03 | 0.18 | 53.4 |
| 4/29/2015 21:56:54 | 49.21 | 42.91 | 976 | 1.02 | 0.18 | 53.4 |
| 4/29/2015 21:56:55 | 49.54 | 43.24 | 826 | 1.04 | 0.18 | 45.2 |
| 4/29/2015 21:56:55 | 49.87 | 43.57 | 738 | 1.03 | 0.18 | 40.4 |
| 4/29/2015 21:56:56 | 50.20 | 43.90 | 686 | 1.04 | 0.18 | 37.5 |
| 4/29/2015 21:56:57 | 50.53 | 44.23 | 655 | 1.04 | 0.18 | 35.8 |
| 4/29/2015 21:56:57 | 50.85 | 44.55 | 655 | 1.02 | 0.18 | 35.8 |
| 4/29/2015 21:56:58 | 51.18 | 44.88 | 667 | 1.04 | 0.18 | 36.5 |
| 4/29/2015 21:56:58 | 51.51 | 45.21 | 667 | 1.04 | 0.17 | 36.5 |
| 4/29/2015 21:57:29 | 51.84 | 45.54 | 70 | 1.09 | 1.05 | 3.8 |
| 4/29/2015 21:57:40 | 52.17 | 45.87 | 27 | 1.09 | 1.14 | 1.5 |
| 4/29/2015 21:57:43 | 52.49 | 46.19 | 54 | 1.02 | 1.30 | 3.0 |
| 4/29/2015 21:57:44 | 52.82 | 46.52 | 153 | 1.07 | 1.16 | 8.4 |
| 4/29/2015 21:57:51 | 53.15 | 46.85 | 29 | 1.07 | 1.40 | 1.6 |
| 4/29/2015 21:57:59 | 53.48 | 47.18 | 55 | 1.00 | 1.17 | 3.0 |
| 4/29/2015 21:58:00 | 53.81 | 47.51 | 204 | 0.34 | 0.89 | 11.2 |
| 4/29/2015 21:58:17 | 54.13 | 47.83 | 3 | 1.99 | 1.15 | 0.1 |
| 4/29/2015 21:58:22 | 54.46 | 48.16 | 102 | 1.00 | 1.18 | 5.6 |
| 4/29/2015 21:58:24 | 54.79 | 48.49 | 115 | 1.01 | 1.03 | 6.3 |
| 4/29/2015 21:58:27 | 55.12 | 48.82 | 131 | 1.02 | 1.03 | 7.2 |
| 4/29/2015 21:58:30 | 55.45 | 49.15 | 126 | 0.96 | 1.19 | 6.9 |
| 4/29/2015 21:58:34 | 55.77 | 49.47 | 98 | 1.09 | 1.14 | 5.4 |
| 4/29/2015 21:58:38 | 56.10 | 49.80 | 83 | 0.98 | 0.99 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 21:58:42 | 56.43 | 50.13 | 92 | 1.07 | 1.04 | 5.1 |
| 4/29/2015 | 21:58:45 | 56.76 | 50.46 | 107 | 1.09 | 1.14 | 5.9 |
| 4/29/2015 | 21:58:55 | 57.09 | 50.79 | 95 | 1.02 | 1.01 | 5.2 |
| 4/29/2015 | 21:58:58 | 57.41 | 51.11 | 113 | 1.08 | 1.20 | 6.2 |
| 4/29/2015 | 21:59:01 | 57.74 | 51.44 | 124 | 0.98 | 1.05 | 6.8 |
| 4/29/2015 | 21:59:03 | 58.07 | 51.77 | 159 | 1.00 | 0.95 | 8.7 |
| 4/29/2015 | 21:59:05 | 58.40 | 52.10 | 164 | 1.00 | 1.06 | 9.0 |
| 4/29/2015 | 21:59:09 | 58.73 | 52.43 | 80 | 1.07 | 1.08 | 4.4 |
| 4/29/2015 | 21:59:21 | 59.06 | 52.76 | 46 | 1.00 | 0.99 | 2.5 |
| 4/29/2015 | 21:59:23 | 59.38 | 53.08 | 162 | 1.02 | 1.25 | 8.9 |
| 4/29/2015 | 21:59:26 | 59.71 | 53.41 | 135 | 1.00 | 0.86 | 7.4 |
| 4/29/2015 | 21:59:30 | 60.04 | 53.74 | 81 | 1.03 | 0.77 | 4.4 |
| 4/29/2015 | 21:59:36 | 60.37 | 54.07 | 52 | 1.02 | 0.80 | 2.8 |
| 4/29/2015 | 21:59:43 | 60.70 | 54.40 | 55 | 1.00 | 0.84 | 3.0 |
| 4/29/2015 | 21:59:50 | 61.02 | 54.72 | 48 | 1.02 | 0.80 | 2.6 |
| 4/29/2015 | 21:59:54 | 61.17 | 54.87 | 36 | 0.98 | 1.15 | 2.0 |

## K107 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 21:54:19

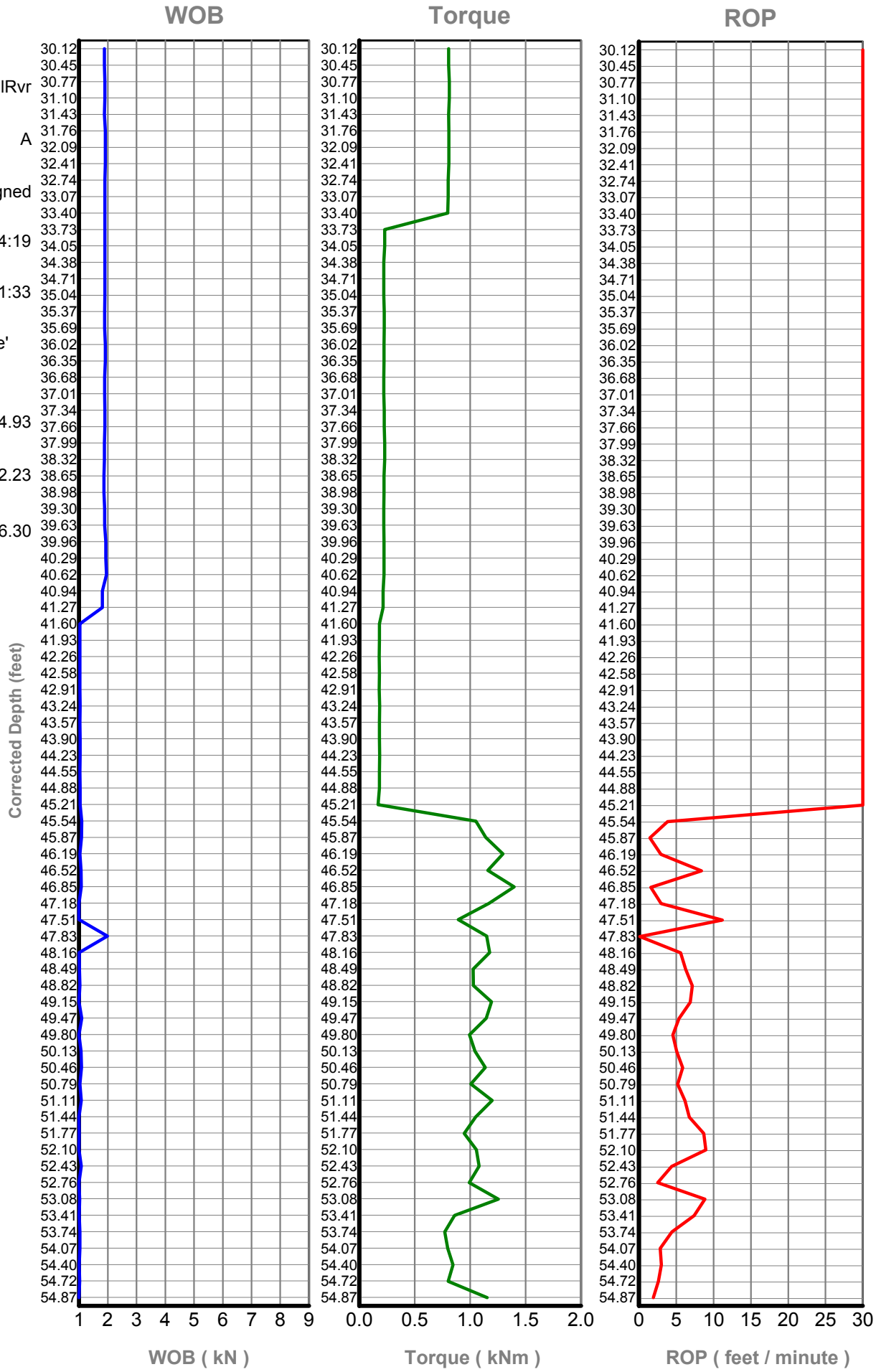
**End Date:**
4/29/2015 22:01:33

**Operator Note:**
'6.3 6.2 b Auto Complete'

**Northing:**
362,644.93

**Easting:**
245,792.23

**Tide (feet):**
6.30



## Hole: K108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:02:27 | 36.42 | 30.12 | 970 | 0.37 | 0.38 | 53.0 |
| 4/29/2015 22:02:27 | 36.75 | 30.45 | 986 | 0.37 | 0.38 | 53.9 |
| 4/29/2015 22:02:28 | 37.07 | 30.77 | 974 | 0.37 | 0.38 | 53.3 |
| 4/29/2015 22:02:28 | 37.40 | 31.10 | 974 | 0.37 | 0.38 | 53.3 |
| 4/29/2015 22:02:28 | 37.73 | 31.43 | 977 | 0.37 | 0.38 | 53.4 |
| 4/29/2015 22:02:29 | 38.06 | 31.76 | 977 | 0.37 | 0.37 | 53.4 |
| 4/29/2015 22:02:29 | 38.39 | 32.09 | 977 | 0.37 | 0.37 | 53.4 |
| 4/29/2015 22:02:29 | 38.71 | 32.41 | 983 | 0.37 | 0.38 | 53.7 |
| 4/29/2015 22:02:30 | 39.04 | 32.74 | 977 | 0.37 | 0.38 | 53.4 |
| 4/29/2015 22:02:30 | 39.37 | 33.07 | 977 | 0.37 | 0.38 | 53.4 |
| 4/29/2015 22:02:30 | 39.70 | 33.40 | 986 | 0.37 | 0.38 | 53.9 |
| 4/29/2015 22:02:31 | 40.03 | 33.73 | 989 | 0.37 | 0.38 | 54.1 |
| 4/29/2015 22:02:31 | 40.35 | 34.05 | 989 | 0.37 | 0.40 | 54.1 |
| 4/29/2015 22:02:32 | 40.68 | 34.38 | 989 | 0.37 | 0.40 | 54.1 |
| 4/29/2015 22:02:32 | 41.01 | 34.71 | 986 | 0.37 | 0.37 | 53.9 |
| 4/29/2015 22:02:32 | 41.34 | 35.04 | 994 | 0.37 | 0.38 | 54.4 |
| 4/29/2015 22:02:33 | 41.67 | 35.37 | 994 | 0.37 | 0.38 | 54.4 |
| 4/29/2015 22:02:33 | 41.99 | 35.69 | 989 | 0.37 | 0.37 | 54.1 |
| 4/29/2015 22:02:33 | 42.32 | 36.02 | 991 | 0.37 | 0.38 | 54.2 |
| 4/29/2015 22:02:34 | 42.65 | 36.35 | 991 | 0.37 | 0.38 | 54.2 |
| 4/29/2015 22:02:34 | 42.98 | 36.68 | 986 | 0.37 | 0.38 | 53.9 |
| 4/29/2015 22:02:35 | 43.31 | 37.01 | 989 | 0.37 | 0.37 | 54.1 |
| 4/29/2015 22:02:35 | 43.64 | 37.34 | 980 | 0.37 | 0.38 | 53.6 |
| 4/29/2015 22:02:36 | 43.96 | 37.66 | 980 | 0.37 | 0.38 | 53.6 |
| 4/29/2015 22:02:36 | 44.29 | 37.99 | 989 | 0.37 | 0.38 | 54.1 |
| 4/29/2015 22:02:36 | 44.62 | 38.32 | 986 | 0.35 | 0.38 | 53.9 |
| 4/29/2015 22:02:37 | 44.95 | 38.65 | 986 | 0.35 | 0.38 | 53.9 |
| 4/29/2015 22:02:37 | 45.28 | 38.98 | 994 | 0.37 | 0.38 | 54.4 |
| 4/29/2015 22:02:37 | 45.60 | 39.30 | 992 | 0.37 | 0.38 | 54.2 |
| 4/29/2015 22:02:38 | 45.93 | 39.63 | 992 | 0.37 | 0.38 | 54.2 |
| 4/29/2015 22:02:38 | 46.26 | 39.96 | 994 | 0.37 | 0.37 | 54.4 |
| 4/29/2015 22:02:38 | 46.59 | 40.29 | 994 | 0.37 | 0.37 | 54.4 |
| 4/29/2015 22:02:39 | 46.92 | 40.62 | 994 | 0.37 | 0.37 | 54.4 |
| 4/29/2015 22:02:39 | 47.24 | 40.94 | 989 | 0.37 | 0.38 | 54.1 |
| 4/29/2015 22:02:39 | 47.57 | 41.27 | 992 | 0.37 | 0.38 | 54.3 |
| 4/29/2015 22:02:40 | 47.90 | 41.60 | 992 | 0.37 | 0.37 | 54.3 |
| 4/29/2015 22:02:40 | 48.23 | 41.93 | 992 | 0.37 | 0.37 | 54.3 |
| 4/29/2015 22:02:40 | 48.56 | 42.26 | 978 | 0.37 | 0.37 | 53.5 |
| 4/29/2015 22:02:41 | 48.88 | 42.58 | 978 | 0.36 | 0.38 | 53.5 |
| 4/29/2015 22:02:41 | 49.21 | 42.91 | 978 | 0.36 | 0.38 | 53.5 |
| 4/29/2015 22:02:41 | 49.54 | 43.24 | 982 | 0.37 | 0.38 | 53.7 |
| 4/29/2015 22:02:42 | 49.87 | 43.57 | 990 | 0.37 | 0.38 | 54.1 |
| 4/29/2015 22:02:42 | 50.20 | 43.90 | 990 | 0.37 | 0.38 | 54.1 |
| 4/29/2015 22:02:42 | 50.53 | 44.23 | 978 | 0.37 | 0.39 | 53.5 |
| 4/29/2015 22:02:47 | 50.85 | 44.55 | 0 | 4.49 | 0.43 | 0.0 |
| 4/29/2015 22:02:51 | 51.18 | 44.88 | 60 | 3.40 | 0.44 | 3.3 |
| 4/29/2015 22:02:53 | 51.51 | 45.21 | 181 | 3.49 | 0.45 | 9.9 |
| 4/29/2015 22:03:00 | 51.84 | 45.54 | 0 | 2.79 | 0.43 | 0.0 |
| 4/29/2015 22:03:02 | 52.17 | 45.87 | 90 | 3.94 | 0.42 | 4.9 |
| 4/29/2015 22:03:03 | 52.49 | 46.19 | 174 | 3.69 | 0.42 | 9.5 |
| 4/29/2015 22:03:04 | 52.82 | 46.52 | 302 | 3.71 | 0.42 | 16.5 |
| 4/29/2015 22:03:04 | 53.15 | 46.85 | 355 | 3.49 | 0.42 | 19.4 |
| 4/29/2015 22:03:12 | 53.48 | 47.18 | 38 | 4.05 | 0.46 | 2.1 |
| 4/29/2015 22:03:18 | 53.81 | 47.51 | 52 | 4.74 | 0.46 | 2.8 |
| 4/29/2015 22:03:20 | 54.13 | 47.83 | 128 | 3.64 | 0.45 | 7.0 |
| 4/29/2015 22:03:21 | 54.46 | 48.16 | 215 | 3.80 | 0.43 | 11.8 |
| 4/29/2015 22:03:22 | 54.79 | 48.49 | 317 | 3.85 | 0.46 | 17.3 |
| 4/29/2015 22:03:26 | 55.12 | 48.82 | 66 | 3.97 | 0.46 | 3.6 |
| 4/29/2015 22:03:33 | 55.45 | 49.15 | 53 | 3.46 | 0.47 | 2.9 |
| 4/29/2015 22:03:37 | 55.77 | 49.47 | 93 | 3.60 | 0.46 | 5.1 |
| 4/29/2015 22:03:42 | 56.10 | 49.80 | 84 | 3.84 | 0.47 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:03:45 | 56.43 | 50.13 | 113 | 3.88 | 0.46 | 6.2 |
| 4/29/2015 | 22:03:49 | 56.76 | 50.46 | 116 | 3.77 | 0.46 | 6.3 |
| 4/29/2015 | 22:03:51 | 57.09 | 50.79 | 121 | 3.77 | 0.46 | 6.6 |
| 4/29/2015 | 22:03:54 | 57.41 | 51.11 | 135 | 3.60 | 0.45 | 7.4 |
| 4/29/2015 | 22:03:57 | 57.74 | 51.44 | 153 | 3.37 | 0.46 | 8.4 |
| 4/29/2015 | 22:04:03 | 58.07 | 51.77 | 49 | 3.22 | 0.46 | 2.7 |
| 4/29/2015 | 22:04:10 | 58.40 | 52.10 | 52 | 3.26 | 0.47 | 2.8 |
| 4/29/2015 | 22:04:18 | 58.73 | 52.43 | 49 | 2.99 | 0.46 | 2.7 |
| 4/29/2015 | 22:04:21 | 58.88 | 52.58 | 46 | 3.35 | 0.46 | 2.5 |

## K108 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:00:00

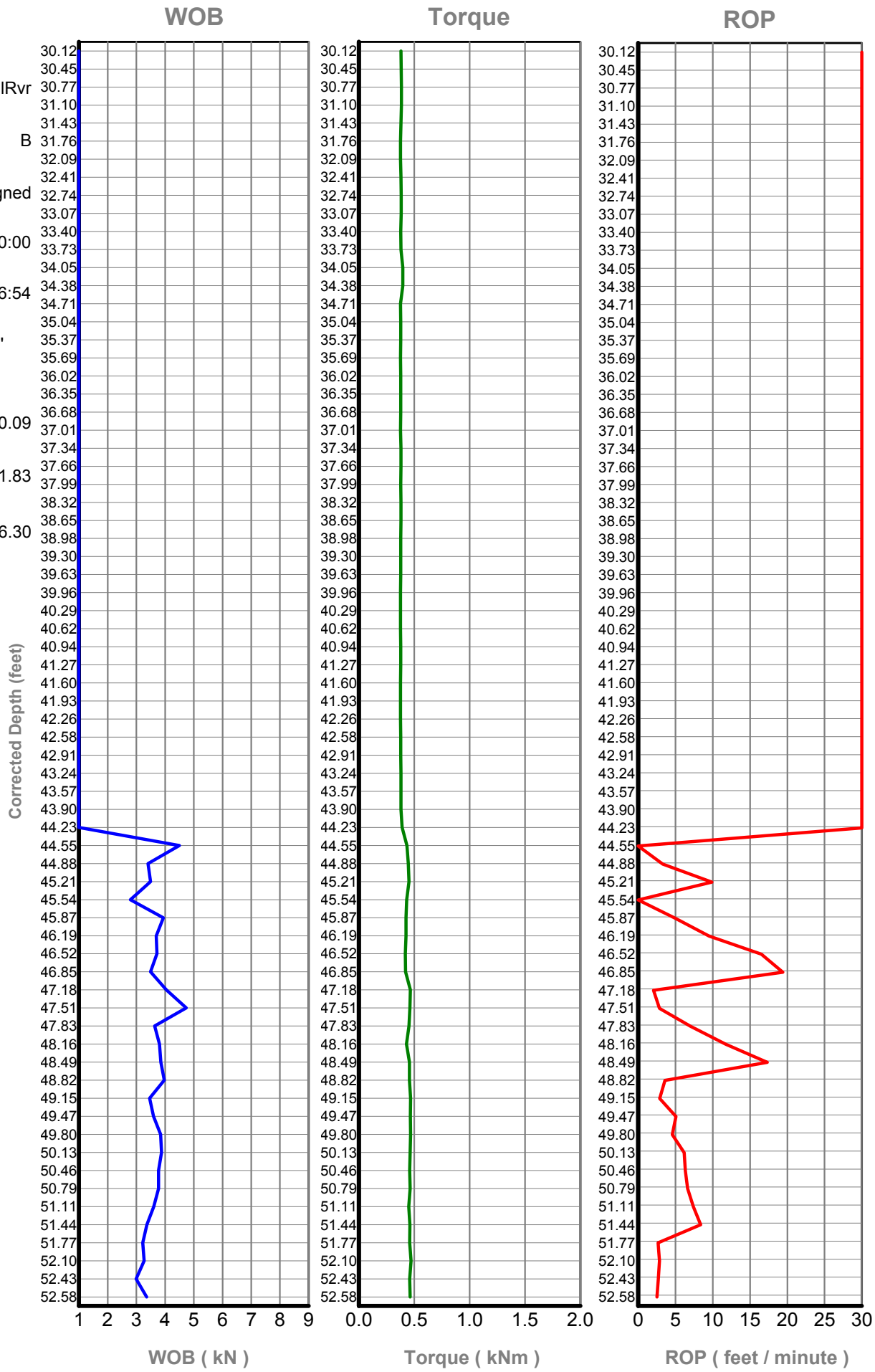
**End Date:**
4/29/2015 22:06:54

**Operator Note:**
'6.3 6.3b Auto Complete'

**Northing:**
362,690.09

**Easting:**
245,851.83

**Tide (feet):**
6.30



## Hole: K109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 21:57:34 | 36.42 | 30.12 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 21:57:34 | 36.75 | 30.45 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:35 | 37.07 | 30.77 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:35 | 37.40 | 31.10 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:35 | 37.73 | 31.43 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:36 | 38.06 | 31.76 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:36 | 38.39 | 32.09 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 21:57:37 | 38.71 | 32.41 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 21:57:37 | 39.04 | 32.74 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 21:57:37 | 39.37 | 33.07 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:57:38 | 39.70 | 33.40 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:57:38 | 40.03 | 33.73 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:38 | 40.35 | 34.05 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:39 | 40.68 | 34.38 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:39 | 41.01 | 34.71 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:57:39 | 41.34 | 35.04 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:57:39 | 41.67 | 35.37 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:40 | 41.99 | 35.69 | 1,124 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 21:57:40 | 42.32 | 36.02 | 1,124 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 21:57:40 | 42.65 | 36.35 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:57:41 | 42.98 | 36.68 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:41 | 43.31 | 37.01 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:41 | 43.64 | 37.34 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:42 | 43.96 | 37.66 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:57:42 | 44.29 | 37.99 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 21:57:42 | 44.62 | 38.32 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:57:43 | 44.95 | 38.65 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:57:43 | 45.28 | 38.98 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:43 | 45.60 | 39.30 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:44 | 45.93 | 39.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:44 | 46.26 | 39.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:44 | 46.59 | 40.29 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:44 | 46.92 | 40.62 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:57:45 | 47.24 | 40.94 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:45 | 47.57 | 41.27 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:45 | 47.90 | 41.60 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 21:57:46 | 48.23 | 41.93 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:57:46 | 48.56 | 42.26 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:57:46 | 48.88 | 42.58 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:57:47 | 49.21 | 42.91 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:57:47 | 49.54 | 43.24 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:57:48 | 49.87 | 43.57 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:48 | 50.20 | 43.90 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:48 | 50.53 | 44.23 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:49 | 50.85 | 44.55 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:57:49 | 51.18 | 44.88 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:58:03 | 51.51 | 45.21 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 21:58:07 | 51.84 | 45.54 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 21:58:08 | 52.17 | 45.87 | 147 | 1.14 | 0.29 | 8.0 |
| 4/29/2015 21:58:08 | 52.49 | 46.19 | 282 | 1.14 | 0.29 | 15.4 |
| 4/29/2015 21:58:24 | 52.82 | 46.52 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 21:58:25 | 53.15 | 46.85 | 127 | 1.14 | 0.29 | 7.0 |
| 4/29/2015 21:58:26 | 53.48 | 47.18 | 269 | 1.14 | 0.29 | 14.7 |
| 4/29/2015 21:58:27 | 53.81 | 47.51 | 369 | 1.14 | 0.29 | 20.2 |
| 4/29/2015 21:58:28 | 54.13 | 47.83 | 477 | 1.14 | 0.29 | 26.1 |
| 4/29/2015 21:58:42 | 54.46 | 48.16 | 54 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 21:58:43 | 54.79 | 48.49 | 160 | 1.14 | 0.29 | 8.8 |
| 4/29/2015 21:58:43 | 55.12 | 48.82 | 277 | 1.14 | 0.29 | 15.2 |
| 4/29/2015 21:58:44 | 55.45 | 49.15 | 409 | 1.14 | 0.29 | 22.4 |
| 4/29/2015 21:58:57 | 55.77 | 49.47 | 47 | 1.14 | 0.29 | 2.6 |
| 4/29/2015 21:58:58 | 56.10 | 49.80 | 197 | 1.14 | 0.29 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 21:58:59 | 56.43 | 50.13 | 318 | 1.14 | 0.29 | 17.4 |
| 4/29/2015 | 21:59:00 | 56.76 | 50.46 | 337 | 1.14 | 0.29 | 18.5 |
| 4/29/2015 | 21:59:02 | 57.09 | 50.79 | 251 | 1.14 | 0.29 | 13.7 |
| 4/29/2015 | 21:59:05 | 57.41 | 51.11 | 114 | 1.14 | 0.29 | 6.2 |
| 4/29/2015 | 21:59:08 | 57.74 | 51.44 | 111 | 1.14 | 0.29 | 6.0 |
| 4/29/2015 | 21:59:13 | 58.07 | 51.77 | 84 | 1.14 | 0.29 | 4.6 |
| 4/29/2015 | 21:59:18 | 58.40 | 52.10 | 67 | 1.14 | 0.29 | 3.7 |
| 4/29/2015 | 21:59:23 | 58.73 | 52.43 | 81 | 1.14 | 0.29 | 4.4 |
| 4/29/2015 | 21:59:28 | 59.06 | 52.76 | 71 | 1.14 | 0.29 | 3.9 |
| 4/29/2015 | 21:59:33 | 59.38 | 53.08 | 70 | 1.14 | 0.29 | 3.8 |
| 4/29/2015 | 22:02:16 | 59.71 | 53.41 | 17 | 1.14 | 0.29 | 1.0 |
| 4/29/2015 | 22:02:23 | 60.04 | 53.74 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 | 22:02:28 | 60.37 | 54.07 | 88 | 1.14 | 0.29 | 4.8 |
| 4/29/2015 | 22:02:34 | 60.70 | 54.40 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 | 22:02:44 | 61.02 | 54.72 | 44 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 | 22:02:49 | 61.20 | 54.90 | 29 | 1.14 | 0.29 | 1.6 |

## K109 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 21:55:46

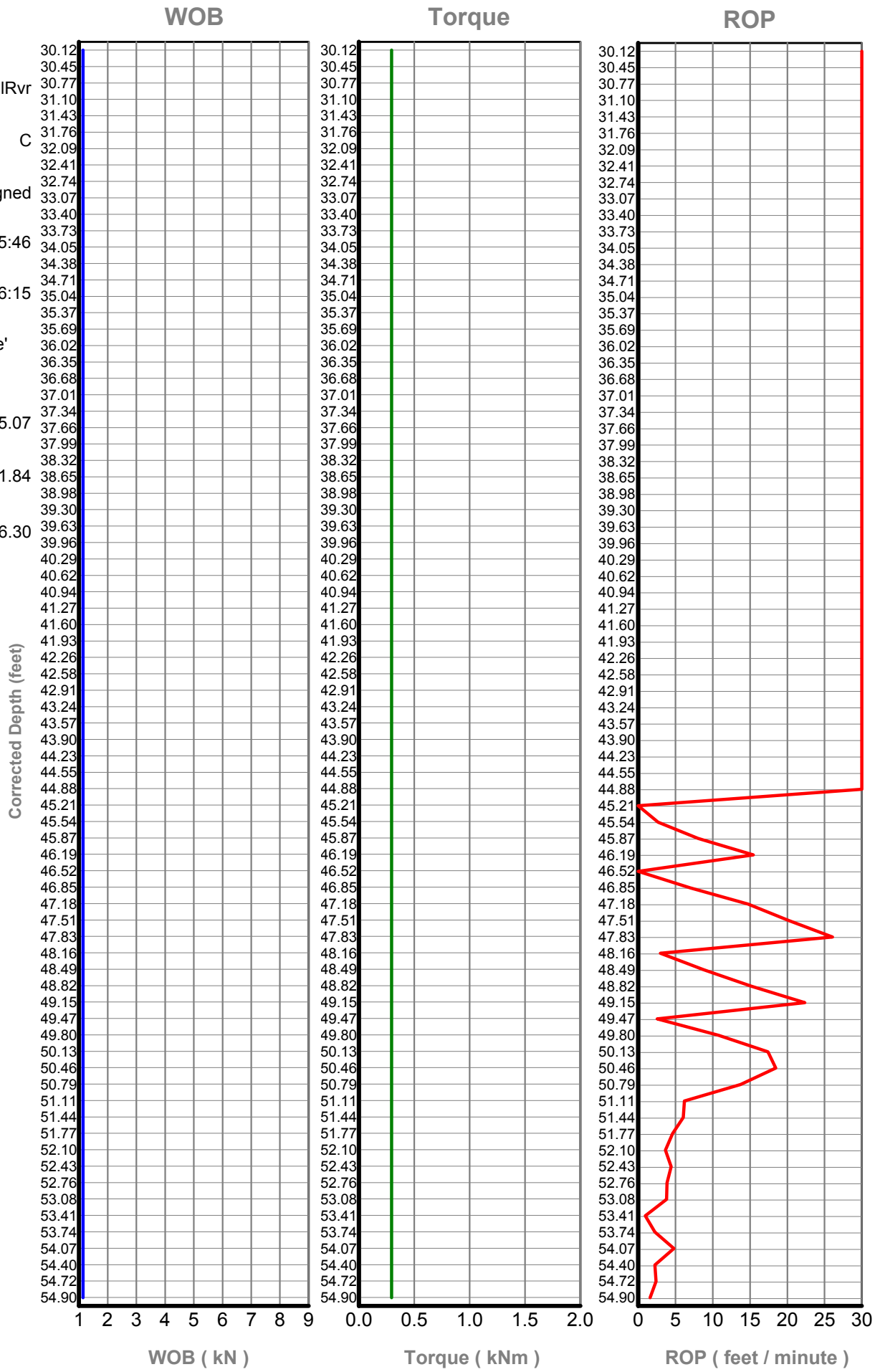
**End Date:**
4/29/2015 22:06:15

**Operator Note:**
'6.3 6.2 c Auto Complete'

**Northing:**
362,735.07

**Easting:**
245,911.84

**Tide (feet):**
6.30



## Hole: K11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:44:09 | 30.84 | 30.14 | 1,142 | 1.70 | 0.24 | 62.4 |
| 4/30/2015 5:44:09 | 31.17 | 30.47 | 1,135 | 1.70 | 0.23 | 62.1 |
| 4/30/2015 5:44:10 | 31.50 | 30.80 | 1,135 | 1.70 | 0.23 | 62.1 |
| 4/30/2015 5:44:10 | 31.82 | 31.12 | 1,132 | 1.70 | 0.24 | 61.9 |
| 4/30/2015 5:44:10 | 32.15 | 31.45 | 1,142 | 1.70 | 0.24 | 62.4 |
| 4/30/2015 5:44:11 | 32.48 | 31.78 | 1,142 | 1.70 | 0.24 | 62.4 |
| 4/30/2015 5:44:11 | 32.81 | 32.11 | 1,136 | 1.69 | 0.24 | 62.1 |
| 4/30/2015 5:44:12 | 33.14 | 32.44 | 1,136 | 1.69 | 0.24 | 62.1 |
| 4/30/2015 5:44:24 | 33.46 | 32.76 | 67 | 1.14 | 1.58 | 3.7 |
| 4/30/2015 5:44:25 | 33.79 | 33.09 | 112 | 1.19 | 0.99 | 6.1 |
| 4/30/2015 5:44:26 | 34.12 | 33.42 | 112 | 1.11 | 0.90 | 6.1 |
| 4/30/2015 5:44:27 | 34.45 | 33.75 | 307 | 1.17 | 1.09 | 16.8 |
| 4/30/2015 5:44:27 | 34.78 | 34.08 | 363 | 1.15 | 1.10 | 19.8 |
| 4/30/2015 5:44:28 | 35.11 | 34.41 | 428 | 1.22 | 1.00 | 23.4 |
| 4/30/2015 5:44:29 | 35.43 | 34.73 | 478 | 1.10 | 1.02 | 26.1 |
| 4/30/2015 5:44:30 | 35.76 | 35.06 | 463 | 1.19 | 1.42 | 25.3 |
| 4/30/2015 5:44:32 | 36.09 | 35.39 | 341 | 1.11 | 1.60 | 18.6 |
| 4/30/2015 5:44:35 | 36.42 | 35.72 | 156 | 1.13 | 1.94 | 8.5 |
| 4/30/2015 5:44:46 | 36.75 | 36.05 | 41 | 1.09 | 1.36 | 2.2 |
| 4/30/2015 5:44:47 | 37.07 | 36.37 | 162 | 1.04 | 1.19 | 8.8 |
| 4/30/2015 5:45:39 | 37.40 | 36.70 | 32 | 1.03 | 1.69 | 1.7 |
| 4/30/2015 5:45:43 | 37.73 | 37.03 | 87 | 1.07 | 1.20 | 4.7 |
| 4/30/2015 5:45:47 | 38.06 | 37.36 | 119 | 1.11 | 1.20 | 6.5 |
| 4/30/2015 5:45:50 | 38.39 | 37.69 | 124 | 1.05 | 1.22 | 6.8 |
| 4/30/2015 5:45:56 | 38.71 | 38.01 | 21 | 1.61 | 1.38 | 1.1 |
| 4/30/2015 5:45:59 | 39.04 | 38.34 | 125 | 1.11 | 1.11 | 6.8 |
| 4/30/2015 5:46:02 | 39.37 | 38.67 | 110 | 0.99 | 1.29 | 6.0 |
| 4/30/2015 5:46:06 | 39.70 | 39.00 | 115 | 1.05 | 1.11 | 6.3 |
| 4/30/2015 5:46:10 | 40.03 | 39.33 | 90 | 1.01 | 1.16 | 4.9 |
| 4/30/2015 5:46:14 | 40.35 | 39.65 | 72 | 1.03 | 1.22 | 4.0 |
| 4/30/2015 5:46:19 | 40.68 | 39.98 | 77 | 1.03 | 1.05 | 4.2 |
| 4/30/2015 5:46:23 | 41.01 | 40.31 | 67 | 1.00 | 1.06 | 3.6 |
| 4/30/2015 5:46:27 | 41.34 | 40.64 | 107 | 1.09 | 1.23 | 5.8 |
| 4/30/2015 5:46:29 | 41.67 | 40.97 | 145 | 1.02 | 1.13 | 7.9 |
| 4/30/2015 5:46:33 | 41.99 | 41.29 | 99 | 1.00 | 1.05 | 5.4 |
| 4/30/2015 5:46:38 | 42.32 | 41.62 | 66 | 1.04 | 0.96 | 3.6 |
| 4/30/2015 5:46:41 | 42.65 | 41.95 | 103 | 1.05 | 1.24 | 5.6 |
| 4/30/2015 5:46:44 | 42.98 | 42.28 | 141 | 0.96 | 1.07 | 7.7 |
| 4/30/2015 5:46:52 | 43.31 | 42.61 | 72 | 1.08 | 1.03 | 4.0 |
| 4/30/2015 5:46:55 | 43.64 | 42.94 | 121 | 1.07 | 1.05 | 6.6 |
| 4/30/2015 5:47:00 | 43.96 | 43.26 | 74 | 1.13 | 1.01 | 4.1 |
| 4/30/2015 5:47:05 | 44.29 | 43.59 | 68 | 1.08 | 1.12 | 3.7 |
| 4/30/2015 5:47:11 | 44.62 | 43.92 | 65 | 1.00 | 1.06 | 3.5 |
| 4/30/2015 5:47:16 | 44.95 | 44.25 | 64 | 1.02 | 1.03 | 3.5 |
| 4/30/2015 5:47:24 | 45.28 | 44.58 | 41 | 1.09 | 1.06 | 2.2 |
| 4/30/2015 5:47:32 | 45.60 | 44.90 | 43 | 1.03 | 1.00 | 2.3 |
| 4/30/2015 5:47:36 | 45.75 | 45.05 | 40 | 1.10 | 1.35 | 2.2 |

## K11 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:42:28

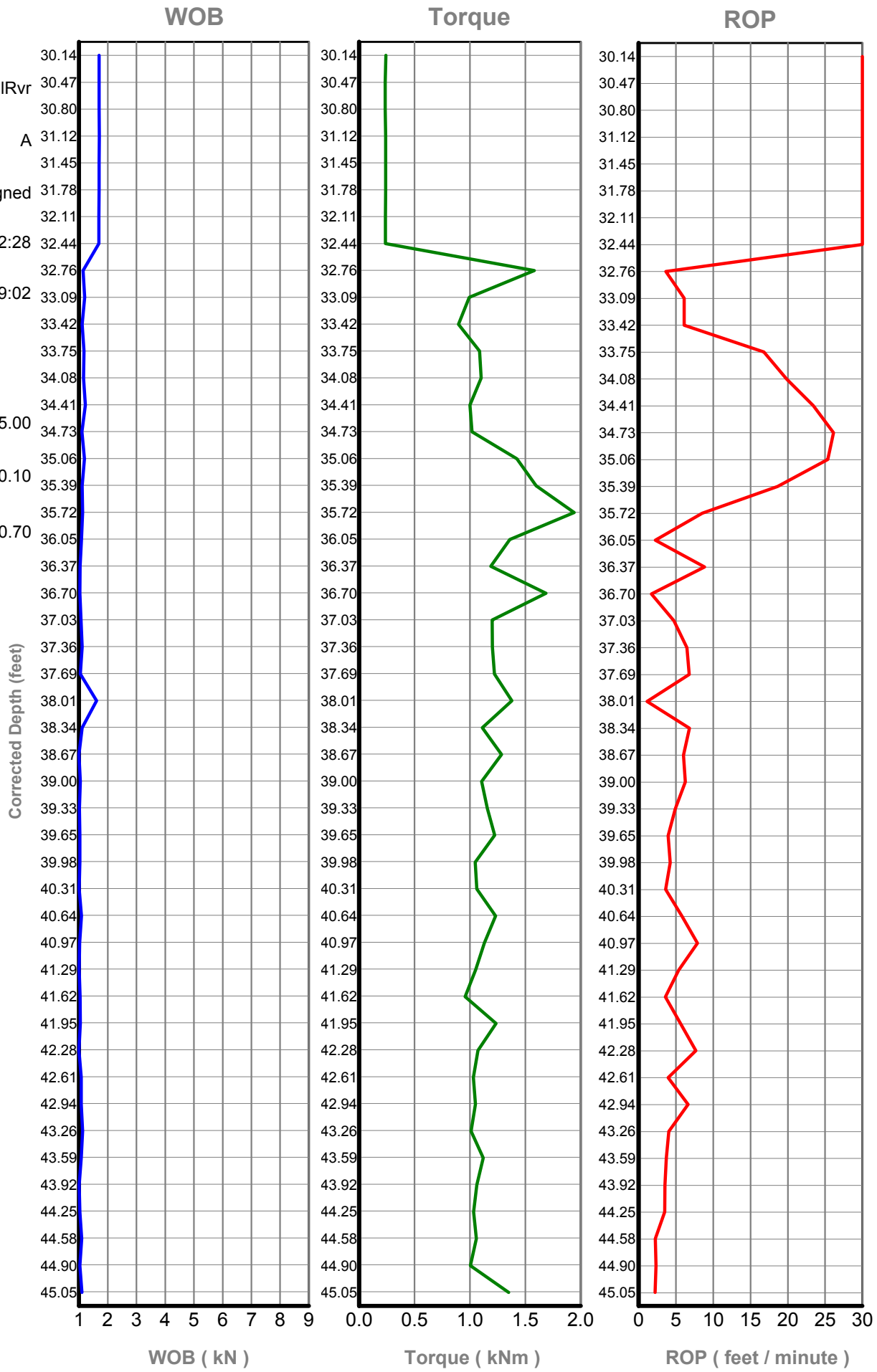
**End Date:**
4/30/2015 5:49:02

**Operator Note:**
'0.7 .7 a Auto Complete'

**Northing:**
362,305.00

**Easting:**
244,900.10

**Tide (feet):**
0.70



## Hole: K110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:00:22 | 35.76 | 30.26 | 1,045 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:22 | 36.09 | 30.59 | 1,045 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:22 | 36.42 | 30.92 | 1,045 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:23 | 36.75 | 31.25 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 9:00:23 | 37.07 | 31.57 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 9:00:23 | 37.40 | 31.90 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 9:00:24 | 37.73 | 32.23 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:24 | 38.06 | 32.56 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:24 | 38.39 | 32.89 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 9:00:25 | 38.71 | 33.21 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 9:00:25 | 39.04 | 33.54 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 9:00:25 | 39.37 | 33.87 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:26 | 39.70 | 34.20 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:26 | 40.03 | 34.53 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:00:26 | 40.35 | 34.85 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:00:27 | 40.68 | 35.18 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:00:27 | 41.01 | 35.51 | 1,049 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:27 | 41.34 | 35.84 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 9:00:28 | 41.67 | 36.17 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 9:00:28 | 41.99 | 36.49 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:00:28 | 42.32 | 36.82 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:00:29 | 42.65 | 37.15 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:00:29 | 42.98 | 37.48 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 9:00:29 | 43.31 | 37.81 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:30 | 43.64 | 38.14 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:30 | 43.96 | 38.46 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:00:30 | 44.29 | 38.79 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:31 | 44.62 | 39.12 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:31 | 44.95 | 39.45 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:31 | 45.28 | 39.78 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:32 | 45.60 | 40.10 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:32 | 45.93 | 40.43 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 9:00:33 | 46.26 | 40.76 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:00:33 | 46.59 | 41.09 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:00:33 | 46.92 | 41.42 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:00:34 | 47.24 | 41.74 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:00:34 | 47.57 | 42.07 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:00:34 | 47.90 | 42.40 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:00:35 | 48.23 | 42.73 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:00:35 | 48.56 | 43.06 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:00:35 | 48.88 | 43.38 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:00:36 | 49.21 | 43.71 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:36 | 49.54 | 44.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:36 | 49.87 | 44.37 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:37 | 50.20 | 44.70 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:37 | 50.53 | 45.03 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:37 | 50.85 | 45.35 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 9:00:38 | 51.18 | 45.68 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:38 | 51.51 | 46.01 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:00:38 | 51.84 | 46.34 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 9:00:39 | 52.17 | 46.67 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 9:00:39 | 52.49 | 46.99 | 964 | 1.14 | 0.29 | 52.7 |
| 4/30/2015 9:01:01 | 52.82 | 47.32 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 9:01:03 | 53.15 | 47.65 | 133 | 1.14 | 0.29 | 7.3 |
| 4/30/2015 9:01:04 | 53.48 | 47.98 | 174 | 1.14 | 0.29 | 9.5 |
| 4/30/2015 9:01:05 | 53.81 | 48.31 | 372 | 1.14 | 0.29 | 20.3 |
| 4/30/2015 9:01:05 | 54.13 | 48.63 | 428 | 1.14 | 0.29 | 23.4 |
| 4/30/2015 9:01:06 | 54.46 | 48.96 | 459 | 1.14 | 0.29 | 25.1 |
| 4/30/2015 9:01:36 | 54.79 | 49.29 | 105 | 1.14 | 0.29 | 5.7 |
| 4/30/2015 9:01:39 | 55.12 | 49.62 | 116 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 9:01:45 | 55.45 | 49.95 | 35 | 1.14 | 0.29 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:01:57 | 55.77 | 50.27 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 9:02:07 | 56.10 | 50.60 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 9:02:20 | 56.43 | 50.93 | 28 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 9:02:32 | 56.76 | 51.26 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 | 9:02:35 | 56.87 | 51.37 | 29 | 1.14 | 0.29 | 1.6 |

## K110 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:58:55

**End Date:**
4/30/2015 9:04:18

**Operator Note:**
'5.5 5.3 C Auto Complete'

**Northing:**
361,349.37

**Easting:**
244,324.32

**Tide (feet):**
5.50



## Hole: K111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:13:00 | 35.76 | 30.16 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:00 | 36.09 | 30.49 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:00 | 36.42 | 30.82 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:01 | 36.75 | 31.15 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:01 | 37.07 | 31.47 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:01 | 37.40 | 31.80 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:02 | 37.73 | 32.13 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:02 | 38.06 | 32.46 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:02 | 38.39 | 32.79 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:03 | 38.71 | 33.11 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:03 | 39.04 | 33.44 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:03 | 39.37 | 33.77 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:04 | 39.70 | 34.10 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:04 | 40.03 | 34.43 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:04 | 40.35 | 34.75 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:05 | 40.68 | 35.08 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:05 | 41.01 | 35.41 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:05 | 41.34 | 35.74 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:06 | 41.67 | 36.07 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:06 | 41.99 | 36.39 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:06 | 42.32 | 36.72 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:13:07 | 42.65 | 37.05 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:07 | 42.98 | 37.38 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:07 | 43.31 | 37.71 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:08 | 43.64 | 38.04 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:13:09 | 43.96 | 38.36 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:13:08 | 44.29 | 38.69 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:09 | 44.62 | 39.02 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:13:10 | 44.95 | 39.35 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:10 | 45.28 | 39.68 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:13:10 | 45.60 | 40.00 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:11 | 45.93 | 40.33 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:11 | 46.26 | 40.66 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:11 | 46.59 | 40.99 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:12 | 46.92 | 41.32 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:12 | 47.24 | 41.64 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 9:13:12 | 47.57 | 41.97 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:13 | 47.90 | 42.30 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:13 | 48.23 | 42.63 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:13:13 | 48.56 | 42.96 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:13:14 | 48.88 | 43.28 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:14 | 49.21 | 43.61 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:14 | 49.54 | 43.94 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:15 | 49.87 | 44.27 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:13:15 | 50.20 | 44.60 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:13:15 | 50.53 | 44.93 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:16 | 50.85 | 45.25 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:13:16 | 51.18 | 45.58 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:13:16 | 51.51 | 45.91 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:17 | 51.84 | 46.24 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 9:13:17 | 52.17 | 46.57 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 9:13:17 | 52.49 | 46.89 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 9:13:30 | 52.82 | 47.22 | 68 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 9:13:32 | 53.15 | 47.55 | 200 | 1.14 | 0.29 | 11.0 |
| 4/30/2015 9:13:33 | 53.48 | 47.88 | 230 | 1.14 | 0.29 | 12.6 |
| 4/30/2015 9:13:36 | 53.81 | 48.21 | 125 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 9:14:02 | 54.13 | 48.53 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 9:14:10 | 54.46 | 48.86 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 9:14:17 | 54.79 | 49.19 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 9:14:24 | 55.12 | 49.52 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 9:14:30 | 55.45 | 49.85 | 60 | 1.14 | 0.29 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:14:33 | 55.60 | 50.00 | 66 | 1.14 | 0.29 | 3.6 |

## K111 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:11:53

**End Date:**
4/30/2015 9:16:11

**Operator Note:**
'5.6 5.5 C Auto Complete'

**Northing:**
361,400.60

**Easting:**
244,388.10

**Tide (feet):**
5.60



## Hole: K112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:44:06 | 35.43 | 30.13 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:07 | 35.76 | 30.46 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:07 | 36.09 | 30.79 | 939 | 1.11 | 0.14 | 51.4 |
| 4/30/2015 12:44:07 | 36.42 | 31.12 | 928 | 1.12 | 0.14 | 50.7 |
| 4/30/2015 12:44:08 | 36.75 | 31.45 | 925 | 1.12 | 0.14 | 50.6 |
| 4/30/2015 12:44:08 | 37.07 | 31.77 | 925 | 1.12 | 0.14 | 50.6 |
| 4/30/2015 12:44:08 | 37.40 | 32.10 | 928 | 1.13 | 0.14 | 50.7 |
| 4/30/2015 12:44:09 | 37.73 | 32.43 | 931 | 1.11 | 0.14 | 50.9 |
| 4/30/2015 12:44:09 | 38.06 | 32.76 | 928 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:44:10 | 38.39 | 33.09 | 928 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:44:10 | 38.71 | 33.41 | 928 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:44:10 | 39.04 | 33.74 | 931 | 0.86 | 0.14 | 50.9 |
| 4/30/2015 12:44:11 | 39.37 | 34.07 | 931 | 1.13 | 0.13 | 50.9 |
| 4/30/2015 12:44:11 | 39.70 | 34.40 | 931 | 1.13 | 0.13 | 50.9 |
| 4/30/2015 12:44:11 | 40.03 | 34.73 | 928 | 1.11 | 0.15 | 50.7 |
| 4/30/2015 12:44:12 | 40.35 | 35.05 | 928 | 1.13 | 0.14 | 50.7 |
| 4/30/2015 12:44:12 | 40.68 | 35.38 | 928 | 1.12 | 0.14 | 50.7 |
| 4/30/2015 12:44:13 | 41.01 | 35.71 | 928 | 1.12 | 0.14 | 50.7 |
| 4/30/2015 12:44:13 | 41.34 | 36.04 | 928 | 1.14 | 0.14 | 50.7 |
| 4/30/2015 12:44:14 | 41.67 | 36.37 | 922 | 1.12 | 0.14 | 50.4 |
| 4/30/2015 12:44:14 | 41.99 | 36.69 | 922 | 1.13 | 0.06 | 50.4 |
| 4/30/2015 12:44:15 | 42.32 | 37.02 | 922 | 1.13 | 0.06 | 50.4 |
| 4/30/2015 12:44:15 | 42.65 | 37.35 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 12:44:15 | 42.98 | 37.68 | 922 | 1.15 | 0.14 | 50.4 |
| 4/30/2015 12:44:16 | 43.31 | 38.01 | 922 | 1.12 | 0.14 | 50.4 |
| 4/30/2015 12:44:16 | 43.64 | 38.34 | 922 | 1.12 | 0.14 | 50.4 |
| 4/30/2015 12:44:16 | 43.96 | 38.66 | 922 | 1.13 | 0.08 | 50.4 |
| 4/30/2015 12:44:17 | 44.29 | 38.99 | 922 | 1.13 | 0.14 | 50.4 |
| 4/30/2015 12:44:17 | 44.62 | 39.32 | 922 | 1.13 | 0.14 | 50.4 |
| 4/30/2015 12:44:18 | 44.95 | 39.65 | 922 | 1.13 | 0.14 | 50.4 |
| 4/30/2015 12:44:18 | 45.28 | 39.98 | 919 | 1.10 | 0.14 | 50.3 |
| 4/30/2015 12:44:18 | 45.60 | 40.30 | 919 | 1.13 | 0.14 | 50.3 |
| 4/30/2015 12:44:19 | 45.93 | 40.63 | 914 | 1.13 | 0.14 | 50.0 |
| 4/30/2015 12:44:19 | 46.26 | 40.96 | 914 | 1.13 | 0.14 | 50.0 |
| 4/30/2015 12:44:19 | 46.59 | 41.29 | 919 | 1.14 | 0.14 | 50.3 |
| 4/30/2015 12:44:20 | 46.92 | 41.62 | 916 | 1.12 | 0.14 | 50.1 |
| 4/30/2015 12:44:20 | 47.24 | 41.94 | 916 | 1.12 | 0.14 | 50.1 |
| 4/30/2015 12:44:20 | 47.57 | 42.27 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:44:21 | 47.90 | 42.60 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:21 | 48.23 | 42.93 | 916 | 1.12 | 0.14 | 50.1 |
| 4/30/2015 12:44:22 | 48.56 | 43.26 | 916 | 1.12 | 0.14 | 50.1 |
| 4/30/2015 12:44:22 | 48.88 | 43.58 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 12:44:22 | 49.21 | 43.91 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:23 | 49.54 | 44.24 | 908 | 1.14 | 0.14 | 49.7 |
| 4/30/2015 12:44:23 | 49.87 | 44.57 | 908 | 1.14 | 0.14 | 49.7 |
| 4/30/2015 12:44:23 | 50.20 | 44.90 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:24 | 50.53 | 45.23 | 916 | 1.13 | 0.14 | 50.1 |
| 4/30/2015 12:44:25 | 50.85 | 45.55 | 914 | 1.14 | 0.13 | 50.0 |
| 4/30/2015 12:44:25 | 51.18 | 45.88 | 914 | 1.14 | 0.13 | 50.0 |
| 4/30/2015 12:44:25 | 51.51 | 46.21 | 914 | 1.14 | 0.14 | 50.0 |
| 4/30/2015 12:44:26 | 51.84 | 46.54 | 922 | 1.12 | 0.14 | 50.4 |
| 4/30/2015 12:44:26 | 52.17 | 46.87 | 914 | 1.12 | 0.14 | 50.0 |
| 4/30/2015 12:44:27 | 52.49 | 47.19 | 911 | 1.13 | 0.14 | 49.8 |
| 4/30/2015 12:44:27 | 52.82 | 47.52 | 911 | 1.13 | 0.14 | 49.8 |
| 4/30/2015 12:44:32 | 53.15 | 47.85 | 18 | 1.11 | 0.86 | 1.0 |
| 4/30/2015 12:44:35 | 53.48 | 48.18 | 118 | 1.17 | 1.17 | 6.5 |
| 4/30/2015 12:44:38 | 53.81 | 48.51 | 123 | 1.13 | 1.24 | 6.8 |
| 4/30/2015 12:44:39 | 54.13 | 48.83 | 155 | 1.02 | 1.00 | 8.5 |
| 4/30/2015 12:44:41 | 54.46 | 49.16 | 191 | 1.46 | 0.73 | 10.5 |
| 4/30/2015 12:44:43 | 54.79 | 49.49 | 121 | 1.08 | 0.92 | 6.6 |
| 4/30/2015 12:44:47 | 55.12 | 49.82 | 149 | 1.10 | 1.16 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:44:48 | 55.45 | 50.15 | 211 | 1.14 | 1.29 | 11.6 |
| 4/30/2015 | 12:44:49 | 55.77 | 50.47 | 234 | 1.13 | 1.23 | 12.8 |
| 4/30/2015 | 12:44:51 | 56.10 | 50.80 | 171 | 1.25 | 1.95 | 9.3 |
| 4/30/2015 | 12:44:55 | 56.43 | 51.13 | 41 | 1.06 | 1.09 | 2.3 |
| 4/30/2015 | 12:44:57 | 56.76 | 51.46 | 214 | 1.05 | 1.48 | 11.7 |
| 4/30/2015 | 12:44:59 | 57.09 | 51.79 | 156 | 1.05 | 1.13 | 8.5 |
| 4/30/2015 | 12:45:01 | 57.41 | 52.11 | 179 | 1.05 | 1.17 | 9.8 |
| 4/30/2015 | 12:45:03 | 57.74 | 52.44 | 202 | 0.98 | 1.32 | 11.1 |
| 4/30/2015 | 12:45:04 | 58.07 | 52.77 | 254 | 1.05 | 1.02 | 13.9 |
| 4/30/2015 | 12:45:06 | 58.40 | 53.10 | 218 | 1.04 | 1.26 | 11.9 |
| 4/30/2015 | 12:45:13 | 58.73 | 53.43 | 101 | 1.08 | 1.09 | 5.5 |
| 4/30/2015 | 12:45:18 | 59.06 | 53.76 | 69 | 1.09 | 1.05 | 3.8 |
| 4/30/2015 | 12:45:24 | 59.38 | 54.08 | 46 | 1.09 | 0.91 | 2.5 |
| 4/30/2015 | 12:45:31 | 59.71 | 54.41 | 60 | 1.05 | 1.37 | 3.3 |
| 4/30/2015 | 12:45:39 | 60.04 | 54.74 | 25 | 1.05 | 0.86 | 1.4 |
| 4/30/2015 | 12:45:50 | 60.37 | 55.07 | 30 | 1.06 | 0.90 | 1.7 |
| 4/30/2015 | 12:45:54 | 60.48 | 55.18 | 29 | 0.69 | 0.99 | 1.6 |

## K112 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:42:35

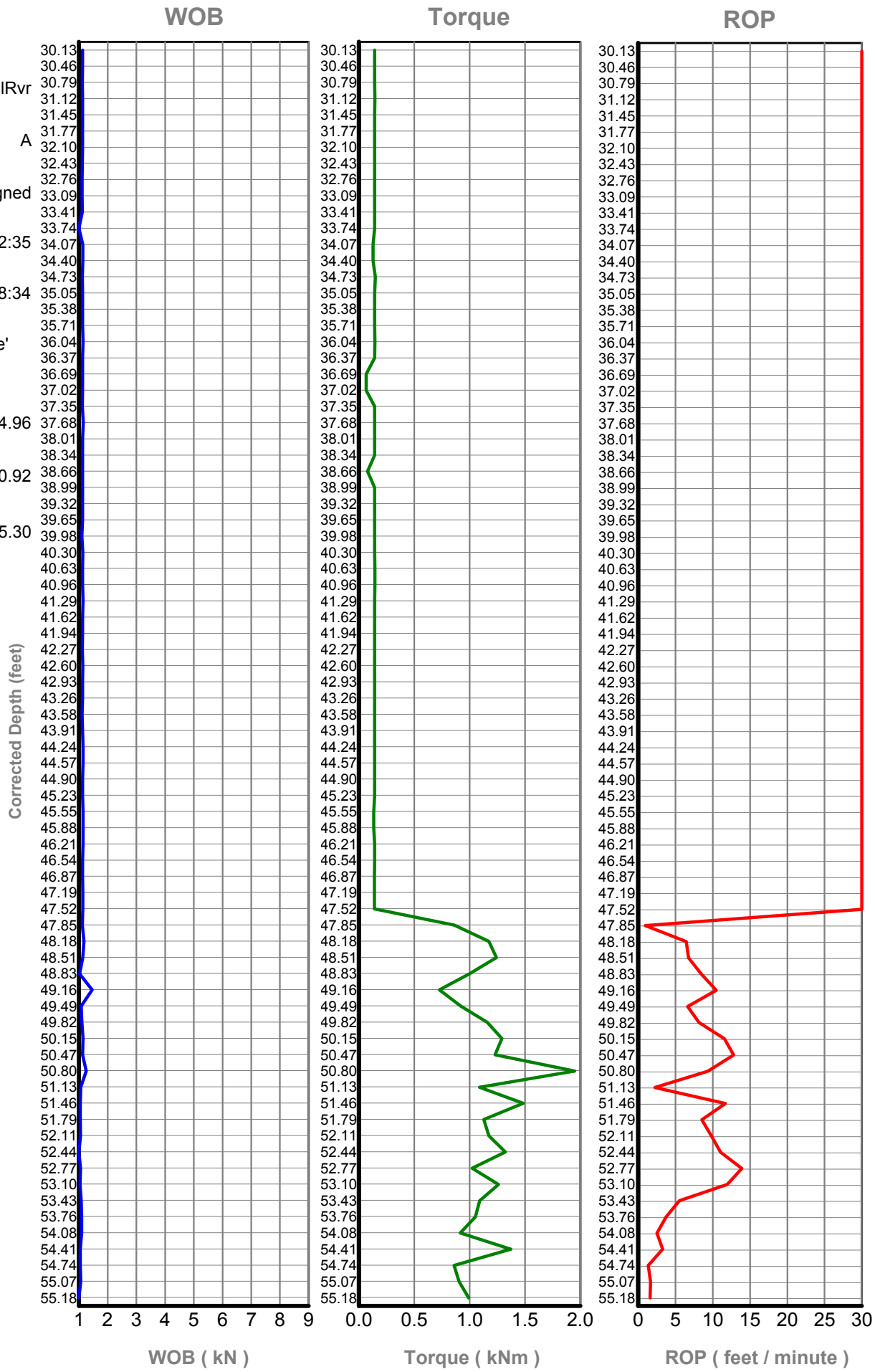
**End Date:**
4/30/2015 12:48:34

**Operator Note:**
'5.3 5.5 a Auto Complete'

**Northing:**
361,444.96

**Easting:**
244,440.92

**Tide (feet):**
5.30



## Hole: K113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:43:50 | 35.43 | 30.13 | 1,133 | 0.41 | 0.40 | 62.0 |
| 4/30/2015 12:43:51 | 35.76 | 30.46 | 1,110 | 0.40 | 0.41 | 60.7 |
| 4/30/2015 12:43:51 | 36.09 | 30.79 | 1,110 | 0.40 | 0.41 | 60.7 |
| 4/30/2015 12:43:51 | 36.42 | 31.12 | 1,110 | 0.39 | 0.41 | 60.7 |
| 4/30/2015 12:43:52 | 36.75 | 31.45 | 1,110 | 0.39 | 0.41 | 60.7 |
| 4/30/2015 12:43:52 | 37.07 | 31.77 | 1,119 | 0.40 | 0.41 | 61.2 |
| 4/30/2015 12:43:52 | 37.40 | 32.10 | 1,119 | 0.39 | 0.40 | 61.2 |
| 4/30/2015 12:43:53 | 37.73 | 32.43 | 1,119 | 0.39 | 0.40 | 61.2 |
| 4/30/2015 12:43:53 | 38.06 | 32.76 | 1,126 | 0.39 | 0.40 | 61.6 |
| 4/30/2015 12:43:53 | 38.39 | 33.09 | 1,126 | 0.39 | 0.40 | 61.6 |
| 4/30/2015 12:43:53 | 38.71 | 33.41 | 1,119 | 0.40 | 0.40 | 61.2 |
| 4/30/2015 12:43:54 | 39.04 | 33.74 | 1,155 | 0.40 | 0.41 | 63.2 |
| 4/30/2015 12:43:55 | 39.37 | 34.07 | 1,155 | 0.40 | 0.41 | 63.2 |
| 4/30/2015 12:43:55 | 39.70 | 34.40 | 1,142 | 0.40 | 0.40 | 62.4 |
| 4/30/2015 12:43:55 | 40.03 | 34.73 | 1,142 | 0.40 | 0.40 | 62.4 |
| 4/30/2015 12:43:55 | 40.35 | 35.05 | 1,145 | 0.40 | 0.40 | 62.6 |
| 4/30/2015 12:43:56 | 40.68 | 35.38 | 1,135 | 0.37 | 0.40 | 62.1 |
| 4/30/2015 12:43:56 | 41.01 | 35.71 | 1,135 | 0.37 | 0.40 | 62.1 |
| 4/30/2015 12:43:56 | 41.34 | 36.04 | 1,148 | 0.40 | 0.41 | 62.8 |
| 4/30/2015 12:43:57 | 41.67 | 36.37 | 1,148 | 0.40 | 0.41 | 62.8 |
| 4/30/2015 12:43:57 | 41.99 | 36.69 | 1,138 | 0.39 | 0.40 | 62.2 |
| 4/30/2015 12:43:57 | 42.32 | 37.02 | 1,139 | 0.39 | 0.40 | 62.3 |
| 4/30/2015 12:43:58 | 42.65 | 37.35 | 1,139 | 0.39 | 0.40 | 62.3 |
| 4/30/2015 12:43:58 | 42.98 | 37.68 | 1,136 | 0.39 | 0.41 | 62.1 |
| 4/30/2015 12:43:58 | 43.31 | 38.01 | 1,136 | 0.39 | 0.41 | 62.1 |
| 4/30/2015 12:43:58 | 43.64 | 38.34 | 1,138 | 0.39 | 0.40 | 62.3 |
| 4/30/2015 12:43:59 | 43.96 | 38.66 | 1,142 | 0.28 | 0.37 | 62.5 |
| 4/30/2015 12:43:59 | 44.29 | 38.99 | 1,142 | 0.28 | 0.37 | 62.5 |
| 4/30/2015 12:43:59 | 44.62 | 39.32 | 1,145 | 0.30 | 0.36 | 62.6 |
| 4/30/2015 12:44:00 | 44.95 | 39.65 | 1,145 | 0.30 | 0.36 | 62.6 |
| 4/30/2015 12:44:00 | 45.28 | 39.98 | 1,157 | 0.29 | 0.38 | 63.3 |
| 4/30/2015 12:44:00 | 45.60 | 40.30 | 1,157 | 0.29 | 0.38 | 63.3 |
| 4/30/2015 12:44:00 | 45.93 | 40.63 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 12:44:01 | 46.26 | 40.96 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:44:01 | 46.59 | 41.29 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:44:01 | 46.92 | 41.62 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 12:44:02 | 47.24 | 41.94 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 12:44:02 | 47.57 | 42.27 | 1,194 | 0.29 | 0.36 | 65.3 |
| 4/30/2015 12:44:02 | 47.90 | 42.60 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:44:03 | 48.23 | 42.93 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:44:03 | 48.56 | 43.26 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:44:04 | 48.88 | 43.58 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:44:03 | 49.21 | 43.91 | 1,177 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:44:04 | 49.54 | 44.24 | 1,177 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:44:04 | 49.87 | 44.57 | 1,187 | 0.29 | 0.37 | 64.9 |
| 4/30/2015 12:44:05 | 50.20 | 44.90 | 1,197 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 12:44:05 | 50.53 | 45.23 | 1,197 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 12:44:05 | 50.85 | 45.55 | 1,191 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 12:44:06 | 51.18 | 45.88 | 1,191 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 12:44:06 | 51.51 | 46.21 | 1,191 | 0.29 | 0.37 | 65.2 |
| 4/30/2015 12:44:06 | 51.84 | 46.54 | 1,191 | 0.29 | 0.37 | 65.2 |
| 4/30/2015 12:44:06 | 52.17 | 46.87 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 12:44:07 | 52.49 | 47.19 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:44:07 | 52.82 | 47.52 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:44:07 | 53.15 | 47.85 | 1,185 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:44:08 | 53.48 | 48.18 | 1,185 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:44:08 | 53.81 | 48.51 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 12:44:08 | 54.13 | 48.83 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 12:44:09 | 54.46 | 49.16 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 12:44:09 | 54.79 | 49.49 | 1,150 | 0.29 | 0.37 | 62.9 |
| 4/30/2015 12:44:09 | 55.12 | 49.82 | 1,150 | 0.29 | 0.37 | 62.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:44:17 | 55.45 | 50.15 | 0 | 2.74 | 0.42 | 0.0 |
| 4/30/2015 | 12:44:18 | 55.77 | 50.47 | 154 | 3.55 | 0.42 | 8.4 |
| 4/30/2015 | 12:44:19 | 56.10 | 50.80 | 360 | 3.71 | 0.51 | 19.7 |
| 4/30/2015 | 12:44:23 | 56.43 | 51.13 | 69 | 3.06 | 0.44 | 3.8 |
| 4/30/2015 | 12:44:26 | 56.76 | 51.46 | 184 | 6.92 | 0.50 | 10.1 |
| 4/30/2015 | 12:44:36 | 57.09 | 51.79 | 62 | 4.07 | 0.45 | 3.4 |
| 4/30/2015 | 12:44:37 | 57.41 | 52.11 | 170 | 3.65 | 0.42 | 9.3 |
| 4/30/2015 | 12:44:38 | 57.74 | 52.44 | 265 | 4.35 | 0.44 | 14.5 |
| 4/30/2015 | 12:44:46 | 58.07 | 52.77 | 81 | 3.71 | 0.46 | 4.4 |
| 4/30/2015 | 12:44:47 | 58.40 | 53.10 | 196 | 3.14 | 0.45 | 10.7 |
| 4/30/2015 | 12:44:49 | 58.73 | 53.43 | 313 | 3.05 | 0.42 | 17.1 |
| 4/30/2015 | 12:44:49 | 59.06 | 53.76 | 356 | 3.45 | 0.43 | 19.4 |
| 4/30/2015 | 12:44:52 | 59.38 | 54.08 | 137 | 3.81 | 0.44 | 7.5 |
| 4/30/2015 | 12:44:53 | 59.71 | 54.41 | 152 | 3.71 | 0.46 | 8.3 |
| 4/30/2015 | 12:44:54 | 60.04 | 54.74 | 259 | 4.83 | 0.45 | 14.2 |
| 4/30/2015 | 12:44:59 | 60.37 | 55.07 | 72 | 3.28 | 0.46 | 3.9 |
| 4/30/2015 | 12:45:00 | 60.47 | 55.17 | 107 | 2.88 | 0.46 | 5.8 |

## K113 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:42:04

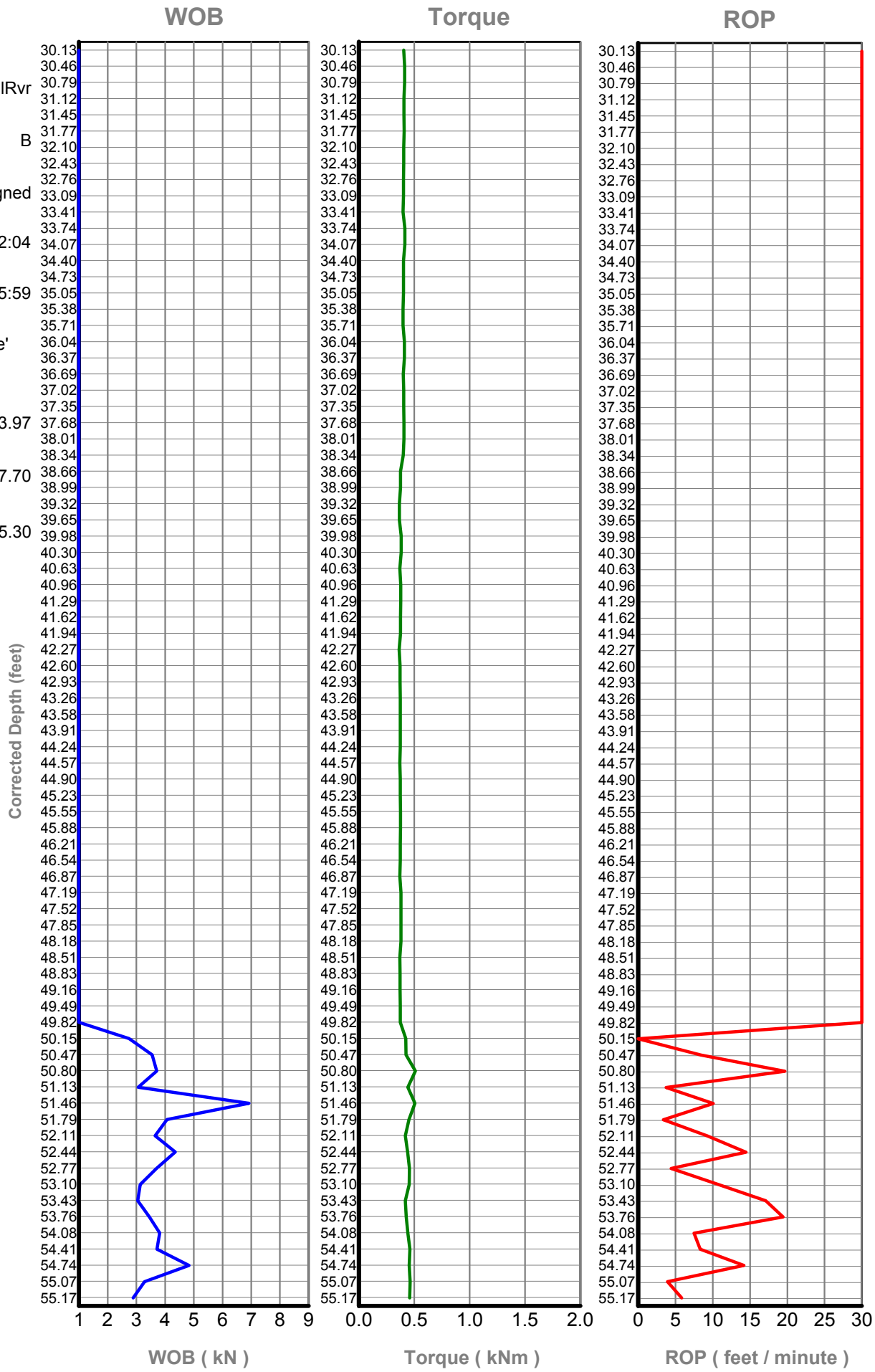
**End Date:**
4/30/2015 12:45:59

**Operator Note:**
'5.3 5.5 b Auto Complete'

**Northing:**
361,493.97

**Easting:**
244,497.70

**Tide (feet):**
5.30



## Hole: K114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:45:15 | 35.43 | 30.13 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:16 | 35.76 | 30.46 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:16 | 36.09 | 30.79 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:17 | 36.42 | 31.12 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:17 | 36.75 | 31.45 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:17 | 37.07 | 31.77 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:18 | 37.40 | 32.10 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:18 | 37.73 | 32.43 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 12:45:18 | 38.06 | 32.76 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 12:45:18 | 38.39 | 33.09 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 12:45:19 | 38.71 | 33.41 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 12:45:19 | 39.04 | 33.74 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 12:45:19 | 39.37 | 34.07 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:20 | 39.70 | 34.40 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:20 | 40.03 | 34.73 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:20 | 40.35 | 35.05 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:21 | 40.68 | 35.38 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:21 | 41.01 | 35.71 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:45:21 | 41.34 | 36.04 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 12:45:22 | 41.67 | 36.37 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 12:45:22 | 41.99 | 36.69 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 12:45:22 | 42.32 | 37.02 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 12:45:23 | 42.65 | 37.35 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:23 | 42.98 | 37.68 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:23 | 43.31 | 38.01 | 1,066 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 12:45:24 | 43.64 | 38.34 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:24 | 43.96 | 38.66 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:24 | 44.29 | 38.99 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:25 | 44.62 | 39.32 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:25 | 44.95 | 39.65 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 12:45:25 | 45.28 | 39.98 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:26 | 45.60 | 40.30 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:26 | 45.93 | 40.63 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:26 | 46.26 | 40.96 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:27 | 46.59 | 41.29 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:27 | 46.92 | 41.62 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 12:45:28 | 47.24 | 41.94 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:28 | 47.57 | 42.27 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 12:45:28 | 47.90 | 42.60 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:29 | 48.23 | 42.93 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:29 | 48.56 | 43.26 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:29 | 48.88 | 43.58 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:45:49 | 49.21 | 43.91 | 95 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 12:45:53 | 49.54 | 44.24 | 100 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 12:45:57 | 49.87 | 44.57 | 91 | 1.14 | 0.29 | 5.0 |
| 4/30/2015 12:45:58 | 50.20 | 44.90 | 186 | 1.14 | 0.29 | 10.2 |
| 4/30/2015 12:45:58 | 50.53 | 45.23 | 186 | 1.14 | 0.29 | 10.2 |
| 4/30/2015 12:45:59 | 50.85 | 45.55 | 335 | 1.14 | 0.29 | 18.3 |
| 4/30/2015 12:46:00 | 51.18 | 45.88 | 404 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 12:46:01 | 51.51 | 46.21 | 435 | 1.14 | 0.29 | 23.8 |
| 4/30/2015 12:46:02 | 51.84 | 46.54 | 338 | 1.14 | 0.29 | 18.5 |
| 4/30/2015 12:46:24 | 52.17 | 46.87 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 12:46:26 | 52.49 | 47.19 | 218 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 12:46:28 | 52.82 | 47.52 | 215 | 1.14 | 0.29 | 11.8 |
| 4/30/2015 12:46:29 | 53.15 | 47.85 | 234 | 1.14 | 0.29 | 12.8 |
| 4/30/2015 12:46:30 | 53.48 | 48.18 | 253 | 1.14 | 0.29 | 13.8 |
| 4/30/2015 12:46:39 | 53.81 | 48.51 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 12:46:45 | 54.13 | 48.83 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:46:55 | 54.46 | 49.16 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 12:47:05 | 54.79 | 49.49 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 12:47:16 | 55.12 | 49.82 | 32 | 1.14 | 0.29 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 12:47:17 | 55.17 | 49.87 | 35 | 1.14 | 0.29 | 1.9 | |

## K114 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:44:07

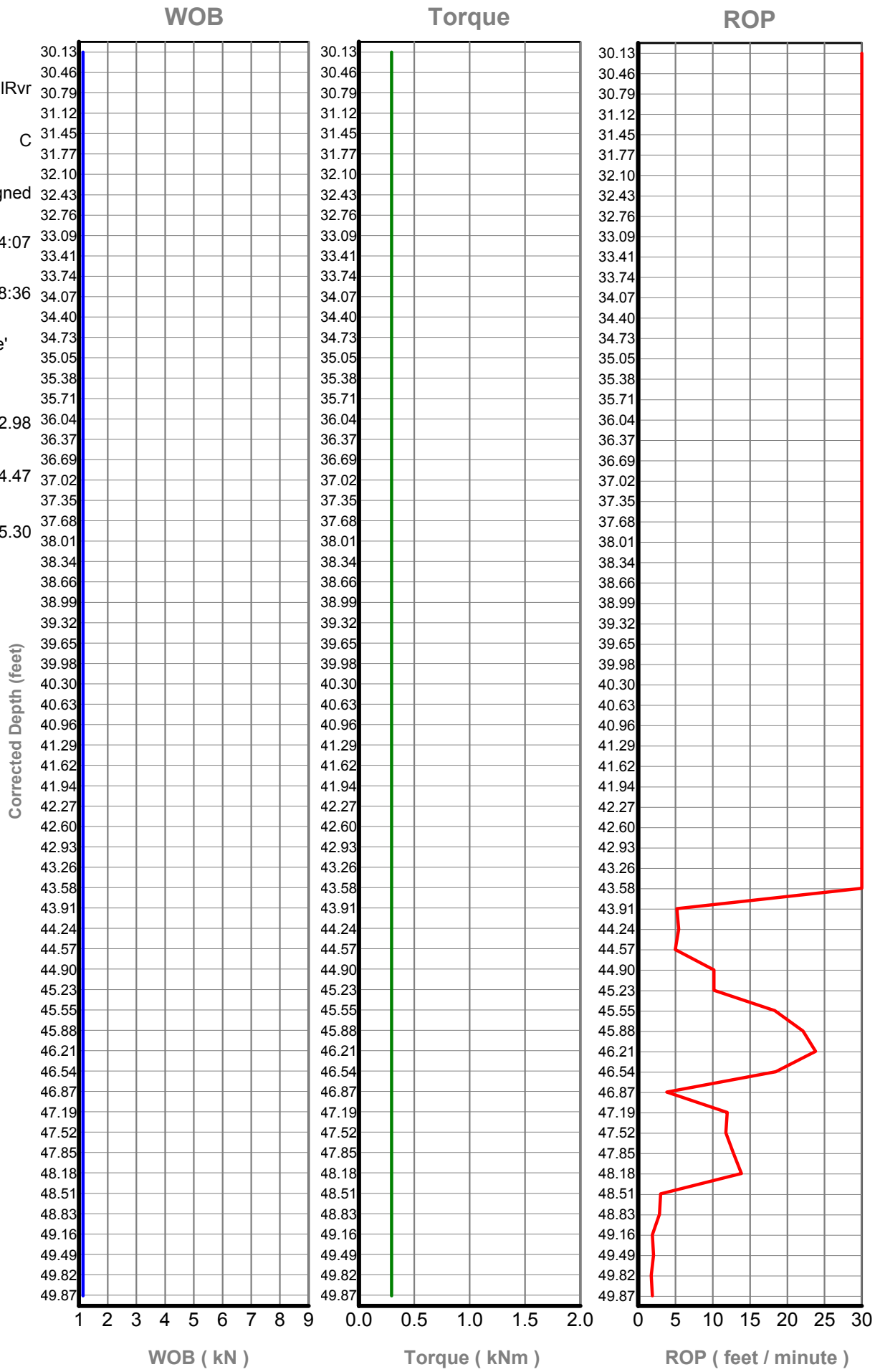
**End Date:**
4/30/2015 12:48:36

**Operator Note:**
'5.3 5.5 c Auto Complete'

**Northing:**
361,542.98

**Easting:**
244,554.47

**Tide (feet):**
5.30



## Hole: K115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:35:22 | 31.82 | 30.32 | 992 | 1.05 | 0.13 | 54.2 |
| 4/29/2015 15:35:23 | 32.15 | 30.65 | 994 | 1.05 | 0.13 | 54.4 |
| 4/29/2015 15:35:23 | 32.48 | 30.98 | 994 | 1.05 | 0.13 | 54.4 |
| 4/29/2015 15:35:23 | 32.81 | 31.31 | 989 | 1.04 | 0.13 | 54.1 |
| 4/29/2015 15:35:24 | 33.14 | 31.64 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 15:35:24 | 33.46 | 31.96 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 15:35:24 | 33.79 | 32.29 | 965 | 1.05 | 0.13 | 52.8 |
| 4/29/2015 15:35:25 | 34.12 | 32.62 | 973 | 1.05 | 0.13 | 53.2 |
| 4/29/2015 15:35:26 | 34.45 | 32.95 | 973 | 1.05 | 0.13 | 53.2 |
| 4/29/2015 15:35:26 | 34.78 | 33.28 | 979 | 1.05 | 0.14 | 53.5 |
| 4/29/2015 15:35:26 | 35.11 | 33.61 | 982 | 1.05 | 0.13 | 53.7 |
| 4/29/2015 15:35:27 | 35.43 | 33.93 | 973 | 1.05 | 0.13 | 53.2 |
| 4/29/2015 15:35:27 | 35.76 | 34.26 | 973 | 1.05 | 0.13 | 53.2 |
| 4/29/2015 15:35:27 | 36.09 | 34.59 | 996 | 1.06 | 0.13 | 54.5 |
| 4/29/2015 15:35:28 | 36.42 | 34.92 | 989 | 1.03 | 0.13 | 54.1 |
| 4/29/2015 15:35:28 | 36.75 | 35.25 | 989 | 1.03 | 0.13 | 54.1 |
| 4/29/2015 15:35:28 | 37.07 | 35.57 | 983 | 1.05 | 0.13 | 53.7 |
| 4/29/2015 15:35:29 | 37.40 | 35.90 | 974 | 1.04 | 0.13 | 53.3 |
| 4/29/2015 15:35:29 | 37.73 | 36.23 | 974 | 1.04 | 0.13 | 53.3 |
| 4/29/2015 15:35:29 | 38.06 | 36.56 | 989 | 1.05 | 0.13 | 54.1 |
| 4/29/2015 15:35:30 | 38.39 | 36.89 | 986 | 1.07 | 0.13 | 53.9 |
| 4/29/2015 15:35:30 | 38.71 | 37.21 | 986 | 1.05 | 0.13 | 53.9 |
| 4/29/2015 15:35:31 | 39.04 | 37.54 | 986 | 1.05 | 0.13 | 53.9 |
| 4/29/2015 15:35:31 | 39.37 | 37.87 | 986 | 1.05 | 0.13 | 53.9 |
| 4/29/2015 15:35:31 | 39.70 | 38.20 | 992 | 1.07 | 0.13 | 54.2 |
| 4/29/2015 15:35:32 | 40.03 | 38.53 | 992 | 1.07 | 0.13 | 54.2 |
| 4/29/2015 15:35:32 | 40.35 | 38.85 | 983 | 1.06 | 0.13 | 53.7 |
| 4/29/2015 15:35:32 | 40.68 | 39.18 | 983 | 1.05 | 0.13 | 53.7 |
| 4/29/2015 15:35:33 | 41.01 | 39.51 | 983 | 1.05 | 0.13 | 53.7 |
| 4/29/2015 15:35:33 | 41.34 | 39.84 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:33 | 41.67 | 40.17 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:34 | 41.99 | 40.49 | 977 | 1.06 | 0.13 | 53.4 |
| 4/29/2015 15:35:34 | 42.32 | 40.82 | 977 | 1.06 | 0.13 | 53.4 |
| 4/29/2015 15:35:34 | 42.65 | 41.15 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:35 | 42.98 | 41.48 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:36 | 43.31 | 41.81 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:36 | 43.64 | 42.14 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:36 | 43.96 | 42.46 | 980 | 1.05 | 0.13 | 53.6 |
| 4/29/2015 15:35:37 | 44.29 | 42.79 | 980 | 1.05 | 0.13 | 53.6 |
| 4/29/2015 15:35:37 | 44.62 | 43.12 | 977 | 1.04 | 0.13 | 53.4 |
| 4/29/2015 15:35:37 | 44.95 | 43.45 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:38 | 45.28 | 43.78 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:38 | 45.60 | 44.10 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 15:35:55 | 45.93 | 44.43 | 3 | 1.67 | 1.38 | 0.2 |
| 4/29/2015 15:36:00 | 46.26 | 44.76 | 93 | 1.07 | 1.04 | 5.1 |
| 4/29/2015 15:36:06 | 46.59 | 45.09 | 61 | 1.06 | 0.96 | 3.3 |
| 4/29/2015 15:36:12 | 46.92 | 45.42 | 66 | 1.02 | 0.96 | 3.6 |
| 4/29/2015 15:36:20 | 47.24 | 45.74 | 41 | 1.07 | 1.05 | 2.2 |
| 4/29/2015 15:36:29 | 47.57 | 46.07 | 41 | 1.09 | 1.02 | 2.2 |
| 4/29/2015 15:36:36 | 47.87 | 46.37 | 29 | 0.51 | 0.98 | 1.6 |

## K115 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:34:00

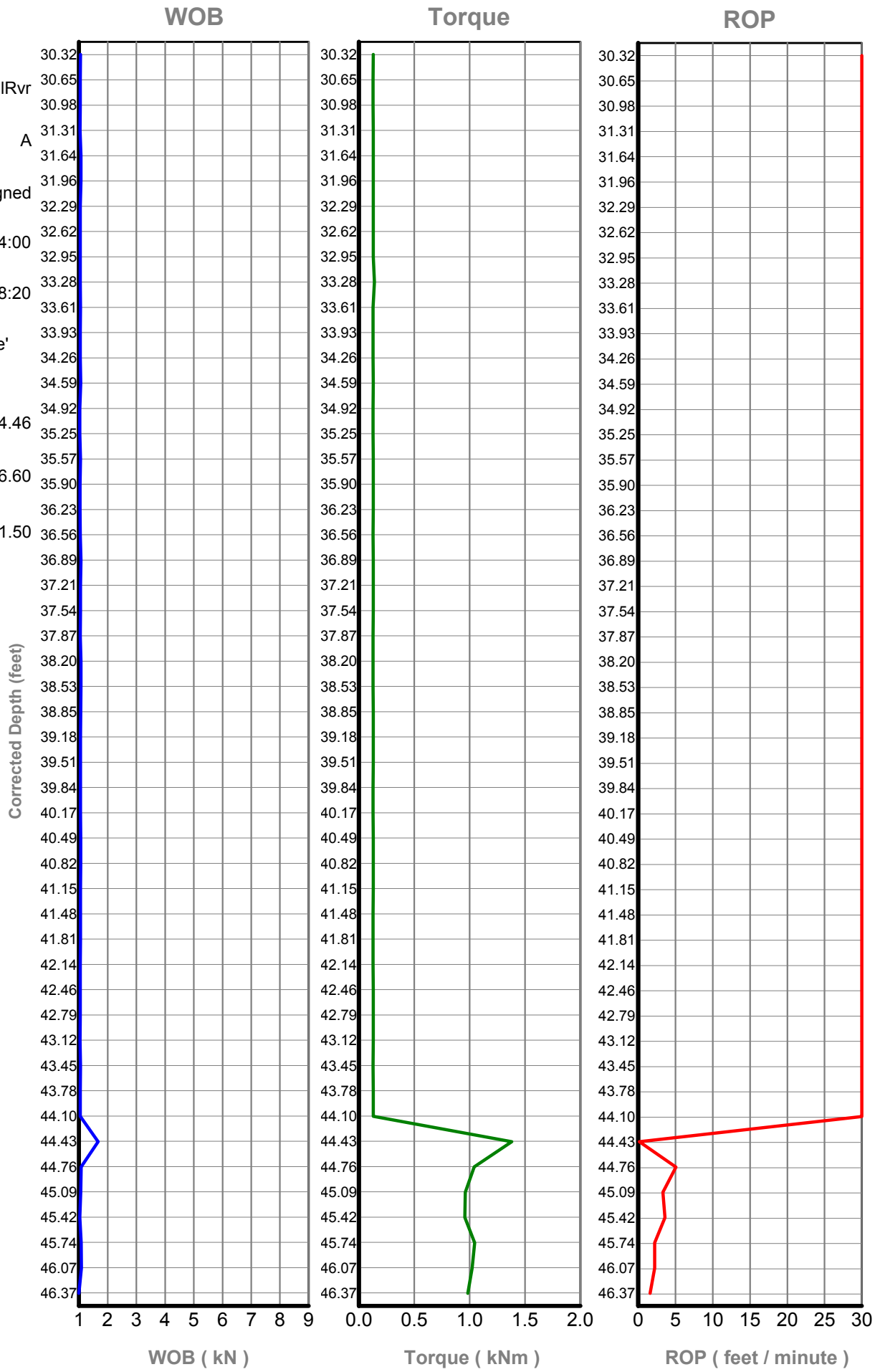
**End Date:**
4/29/2015 15:38:20

**Operator Note:**
'1.5 1.8 a Auto Complete'

**Northing:**
361,564.46

**Easting:**
244,606.60

**Tide (feet):**
1.50



## Hole: K116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:21:07 | 31.82 | 30.02 | 919 | 1.06 | 0.13 | 50.2 |
| 4/29/2015 15:21:08 | 32.15 | 30.35 | 921 | 1.05 | 0.13 | 50.4 |
| 4/29/2015 15:21:08 | 32.48 | 30.68 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 15:21:09 | 32.81 | 31.01 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 15:21:09 | 33.14 | 31.34 | 926 | 1.03 | 0.13 | 50.6 |
| 4/29/2015 15:21:09 | 33.46 | 31.66 | 917 | 1.04 | 0.13 | 50.2 |
| 4/29/2015 15:21:10 | 33.79 | 31.99 | 917 | 1.04 | 0.13 | 50.2 |
| 4/29/2015 15:21:10 | 34.12 | 32.32 | 917 | 1.05 | 0.13 | 50.2 |
| 4/29/2015 15:21:11 | 34.45 | 32.65 | 928 | 1.04 | 0.13 | 50.7 |
| 4/29/2015 15:21:11 | 34.78 | 32.98 | 923 | 1.05 | 0.13 | 50.5 |
| 4/29/2015 15:21:11 | 35.11 | 33.31 | 923 | 1.05 | 0.13 | 50.5 |
| 4/29/2015 15:21:12 | 35.43 | 33.63 | 923 | 1.05 | 0.13 | 50.5 |
| 4/29/2015 15:21:12 | 35.76 | 33.96 | 921 | 1.06 | 0.13 | 50.3 |
| 4/29/2015 15:21:13 | 36.09 | 34.29 | 942 | 1.06 | 0.13 | 51.5 |
| 4/29/2015 15:21:13 | 36.42 | 34.62 | 942 | 1.06 | 0.13 | 51.5 |
| 4/29/2015 15:21:13 | 36.75 | 34.95 | 948 | 1.05 | 0.13 | 51.9 |
| 4/29/2015 15:21:14 | 37.07 | 35.27 | 954 | 1.04 | 0.13 | 52.2 |
| 4/29/2015 15:21:14 | 37.40 | 35.60 | 939 | 1.05 | 0.13 | 51.4 |
| 4/29/2015 15:21:15 | 37.73 | 35.93 | 939 | 1.05 | 0.13 | 51.4 |
| 4/29/2015 15:21:15 | 38.06 | 36.26 | 939 | 1.05 | 0.13 | 51.4 |
| 4/29/2015 15:21:15 | 38.39 | 36.59 | 955 | 1.04 | 0.13 | 52.2 |
| 4/29/2015 15:21:16 | 38.71 | 36.91 | 955 | 1.04 | 0.13 | 52.2 |
| 4/29/2015 15:21:16 | 39.04 | 37.24 | 941 | 1.06 | 0.13 | 51.4 |
| 4/29/2015 15:21:16 | 39.37 | 37.57 | 935 | 1.03 | 0.13 | 51.1 |
| 4/29/2015 15:21:17 | 39.70 | 37.90 | 932 | 1.05 | 0.13 | 50.9 |
| 4/29/2015 15:21:17 | 40.03 | 38.23 | 932 | 1.05 | 0.13 | 50.9 |
| 4/29/2015 15:21:17 | 40.35 | 38.55 | 941 | 1.05 | 0.13 | 51.5 |
| 4/29/2015 15:21:18 | 40.68 | 38.88 | 925 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 15:21:18 | 41.01 | 39.21 | 934 | 1.06 | 0.13 | 51.1 |
| 4/29/2015 15:21:19 | 41.34 | 39.54 | 934 | 1.06 | 0.13 | 51.1 |
| 4/29/2015 15:21:19 | 41.67 | 39.87 | 925 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 15:21:19 | 41.99 | 40.19 | 919 | 1.08 | 0.13 | 50.3 |
| 4/29/2015 15:21:20 | 42.32 | 40.52 | 908 | 1.07 | 0.13 | 49.6 |
| 4/29/2015 15:21:20 | 42.65 | 40.85 | 908 | 1.07 | 0.13 | 49.6 |
| 4/29/2015 15:21:20 | 42.98 | 41.18 | 899 | 1.10 | 0.13 | 49.2 |
| 4/29/2015 15:21:21 | 43.31 | 41.51 | 876 | 1.09 | 0.13 | 47.9 |
| 4/29/2015 15:21:22 | 43.64 | 41.84 | 856 | 1.10 | 0.13 | 46.8 |
| 4/29/2015 15:21:22 | 43.96 | 42.16 | 830 | 1.08 | 0.13 | 45.4 |
| 4/29/2015 15:21:23 | 44.29 | 42.49 | 824 | 1.10 | 0.13 | 45.0 |
| 4/29/2015 15:21:23 | 44.62 | 42.82 | 804 | 1.11 | 0.13 | 44.0 |
| 4/29/2015 15:21:24 | 44.95 | 43.15 | 804 | 1.11 | 0.13 | 44.0 |
| 4/29/2015 15:21:24 | 45.28 | 43.48 | 798 | 1.08 | 0.13 | 43.6 |
| 4/29/2015 15:21:24 | 45.60 | 43.80 | 792 | 1.08 | 0.13 | 43.3 |
| 4/29/2015 15:21:25 | 45.93 | 44.13 | 792 | 1.08 | 0.13 | 43.3 |
| 4/29/2015 15:21:25 | 46.26 | 44.46 | 786 | 1.09 | 0.13 | 43.0 |
| 4/29/2015 15:21:26 | 46.59 | 44.79 | 783 | 0.45 | 0.08 | 42.8 |
| 4/29/2015 15:21:37 | 46.92 | 45.12 | 34 | 1.15 | 1.09 | 1.9 |
| 4/29/2015 15:21:43 | 47.24 | 45.44 | 44 | 1.08 | 1.17 | 2.4 |
| 4/29/2015 15:21:48 | 47.57 | 45.77 | 84 | 1.08 | 1.13 | 4.6 |
| 4/29/2015 15:21:55 | 47.90 | 46.10 | 54 | 1.11 | 1.08 | 2.9 |
| 4/29/2015 15:21:59 | 48.23 | 46.43 | 84 | 0.98 | 1.10 | 4.6 |
| 4/29/2015 15:22:02 | 48.56 | 46.76 | 95 | 1.06 | 1.12 | 5.2 |
| 4/29/2015 15:22:04 | 48.88 | 47.08 | 181 | 1.02 | 1.12 | 9.9 |
| 4/29/2015 15:22:11 | 49.21 | 47.41 | 37 | 1.00 | 0.96 | 2.0 |
| 4/29/2015 15:22:14 | 49.30 | 47.50 | 38 | 0.61 | 1.10 | 2.1 |

## K116 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:19:53

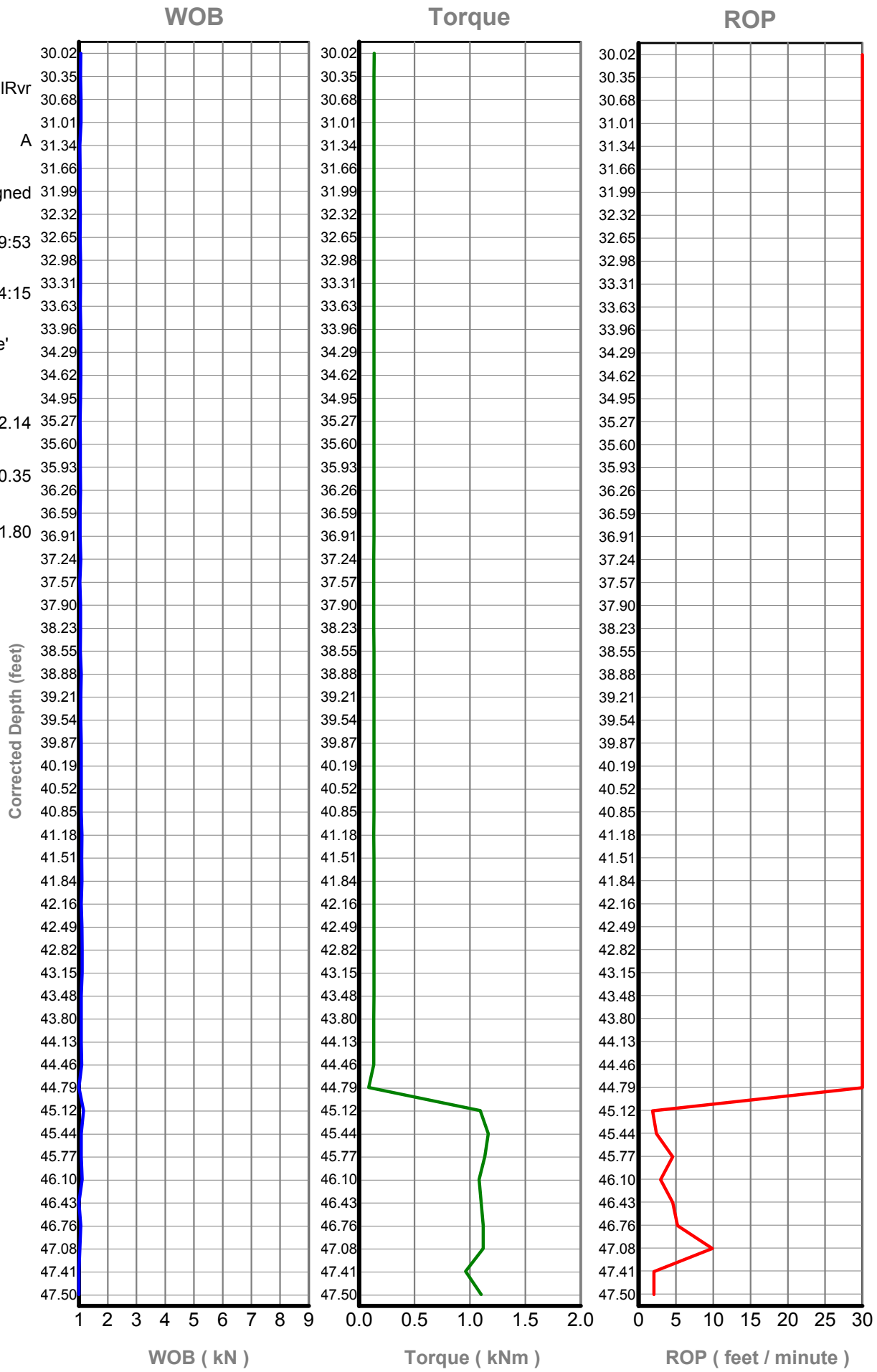
**End Date:**
4/29/2015 15:24:15

**Operator Note:**
'1.8 2.0 a Auto Complete'

**Northing:**
361,612.14

**Easting:**
244,650.35

**Tide (feet):**
1.80



## Hole: K117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:34:00 | 32.81 | 30.31 | 900 | 1.01 | 0.12 | 49.2 |
| 4/29/2015 14:34:00 | 33.14 | 30.64 | 915 | 1.00 | 0.12 | 50.0 |
| 4/29/2015 14:34:01 | 33.46 | 30.96 | 915 | 1.00 | 0.12 | 50.0 |
| 4/29/2015 14:34:01 | 33.79 | 31.29 | 921 | 1.02 | 0.12 | 50.3 |
| 4/29/2015 14:34:01 | 34.12 | 31.62 | 912 | 1.00 | 0.12 | 49.9 |
| 4/29/2015 14:34:02 | 34.45 | 31.95 | 902 | 1.02 | 0.13 | 49.3 |
| 4/29/2015 14:34:02 | 34.78 | 32.28 | 902 | 1.02 | 0.13 | 49.3 |
| 4/29/2015 14:34:02 | 35.11 | 32.61 | 902 | 1.00 | 0.12 | 49.3 |
| 4/29/2015 14:34:03 | 35.43 | 32.93 | 929 | 1.00 | 0.12 | 50.8 |
| 4/29/2015 14:34:03 | 35.76 | 33.26 | 896 | 0.99 | 0.12 | 49.0 |
| 4/29/2015 14:34:04 | 36.09 | 33.59 | 896 | 0.99 | 0.12 | 49.0 |
| 4/29/2015 14:34:04 | 36.42 | 33.92 | 898 | 1.00 | 0.12 | 49.1 |
| 4/29/2015 14:34:04 | 36.75 | 34.25 | 898 | 1.02 | 0.12 | 49.1 |
| 4/29/2015 14:34:05 | 37.07 | 34.57 | 898 | 1.02 | 0.12 | 49.1 |
| 4/29/2015 14:34:05 | 37.40 | 34.90 | 913 | 0.99 | 0.12 | 49.9 |
| 4/29/2015 14:34:05 | 37.73 | 35.23 | 897 | 1.00 | 0.12 | 49.1 |
| 4/29/2015 14:34:06 | 38.06 | 35.56 | 894 | 1.00 | 0.12 | 48.9 |
| 4/29/2015 14:34:06 | 38.39 | 35.89 | 894 | 1.00 | 0.12 | 48.9 |
| 4/29/2015 14:34:06 | 38.71 | 36.21 | 919 | 1.00 | 0.12 | 50.3 |
| 4/29/2015 14:34:07 | 39.04 | 36.54 | 919 | 1.00 | 0.12 | 50.3 |
| 4/29/2015 14:34:07 | 39.37 | 36.87 | 924 | 0.98 | 0.12 | 50.5 |
| 4/29/2015 14:34:08 | 39.70 | 37.20 | 924 | 0.98 | 0.12 | 50.5 |
| 4/29/2015 14:34:08 | 40.03 | 37.53 | 904 | 1.00 | 0.12 | 49.5 |
| 4/29/2015 14:34:08 | 40.35 | 37.85 | 913 | 1.00 | 0.12 | 50.0 |
| 4/29/2015 14:34:09 | 40.68 | 38.18 | 913 | 1.00 | 0.12 | 50.0 |
| 4/29/2015 14:34:10 | 41.01 | 38.51 | 913 | 1.00 | 0.12 | 50.0 |
| 4/29/2015 14:34:10 | 41.34 | 38.84 | 923 | 1.00 | 0.12 | 50.5 |
| 4/29/2015 14:34:10 | 41.67 | 39.17 | 914 | 1.02 | 0.12 | 50.0 |
| 4/29/2015 14:34:11 | 41.99 | 39.49 | 907 | 1.01 | 0.13 | 49.6 |
| 4/29/2015 14:34:11 | 42.32 | 39.82 | 907 | 1.01 | 0.13 | 49.6 |
| 4/29/2015 14:34:11 | 42.65 | 40.15 | 912 | 1.01 | 0.12 | 49.8 |
| 4/29/2015 14:34:12 | 42.98 | 40.48 | 931 | 1.01 | 0.12 | 50.9 |
| 4/29/2015 14:34:12 | 43.31 | 40.81 | 895 | 1.03 | 0.12 | 48.9 |
| 4/29/2015 14:34:13 | 43.64 | 41.14 | 895 | 1.03 | 0.12 | 48.9 |
| 4/29/2015 14:34:13 | 43.96 | 41.46 | 895 | 1.01 | 0.12 | 48.9 |
| 4/29/2015 14:34:13 | 44.29 | 41.79 | 899 | 1.00 | 0.12 | 49.1 |
| 4/29/2015 14:34:14 | 44.62 | 42.12 | 896 | 1.00 | 0.12 | 49.0 |
| 4/29/2015 14:34:14 | 44.95 | 42.45 | 896 | 1.00 | 0.12 | 49.0 |
| 4/29/2015 14:34:14 | 45.28 | 42.78 | 907 | 1.01 | 0.12 | 49.6 |
| 4/29/2015 14:34:15 | 45.60 | 43.10 | 907 | 0.98 | 0.12 | 49.6 |
| 4/29/2015 14:34:15 | 45.93 | 43.43 | 916 | 1.02 | 0.12 | 50.1 |
| 4/29/2015 14:34:16 | 46.26 | 43.76 | 916 | 1.02 | 0.12 | 50.1 |
| 4/29/2015 14:34:16 | 46.59 | 44.09 | 916 | 1.02 | 0.12 | 50.1 |
| 4/29/2015 14:34:16 | 46.92 | 44.42 | 910 | 1.00 | 0.12 | 49.8 |
| 4/29/2015 14:34:17 | 47.24 | 44.74 | 910 | 1.30 | 0.12 | 49.8 |
| 4/29/2015 14:34:27 | 47.57 | 45.07 | 89 | 1.11 | 1.08 | 4.8 |
| 4/29/2015 14:34:31 | 47.90 | 45.40 | 78 | 1.08 | 1.33 | 4.3 |
| 4/29/2015 14:34:33 | 48.23 | 45.73 | 185 | 1.08 | 0.90 | 10.1 |
| 4/29/2015 14:34:34 | 48.56 | 46.06 | 264 | 1.07 | 1.10 | 14.4 |
| 4/29/2015 14:34:34 | 48.88 | 46.38 | 329 | 1.08 | 1.07 | 18.0 |
| 4/29/2015 14:34:37 | 49.21 | 46.71 | 243 | 1.07 | 1.35 | 13.3 |
| 4/29/2015 14:34:38 | 49.54 | 47.04 | 153 | 1.03 | 1.46 | 8.4 |
| 4/29/2015 14:34:40 | 49.87 | 47.37 | 209 | 0.99 | 0.85 | 11.4 |
| 4/29/2015 14:34:41 | 50.20 | 47.70 | 311 | 1.05 | 0.90 | 17.0 |
| 4/29/2015 14:34:42 | 50.53 | 48.03 | 320 | 0.99 | 0.79 | 17.5 |
| 4/29/2015 14:34:43 | 50.85 | 48.35 | 364 | 1.09 | 1.33 | 19.9 |
| 4/29/2015 14:34:45 | 51.18 | 48.68 | 186 | 0.96 | 1.93 | 10.2 |
| 4/29/2015 14:34:47 | 51.51 | 49.01 | 98 | 0.99 | 1.81 | 5.4 |
| 4/29/2015 14:34:50 | 51.84 | 49.34 | 86 | 1.85 | 1.25 | 4.7 |
| 4/29/2015 14:34:52 | 52.17 | 49.67 | 208 | 1.70 | 1.23 | 11.4 |
| 4/29/2015 14:34:55 | 52.49 | 49.99 | 170 | 2.02 | 1.01 | 9.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 14:34:57 | 52.82 | 50.32 | 136 | 2.15 | 1.53 | 7.5 |
| 4/29/2015 | 14:34:58 | 53.15 | 50.65 | 191 | 1.24 | 1.22 | 10.4 |
| 4/29/2015 | 14:34:59 | 53.48 | 50.98 | 240 | 1.04 | 1.17 | 13.1 |
| 4/29/2015 | 14:35:00 | 53.81 | 51.31 | 349 | 1.19 | 0.95 | 19.1 |
| 4/29/2015 | 14:35:01 | 54.13 | 51.63 | 350 | 1.15 | 1.21 | 19.1 |
| 4/29/2015 | 14:35:02 | 54.46 | 51.96 | 327 | 2.16 | 1.11 | 17.9 |
| 4/29/2015 | 14:35:03 | 54.79 | 52.29 | 353 | 1.40 | 0.99 | 19.3 |
| 4/29/2015 | 14:35:05 | 55.12 | 52.62 | 279 | 1.57 | 1.18 | 15.2 |
| 4/29/2015 | 14:35:06 | 55.45 | 52.95 | 202 | 1.65 | 0.85 | 11.1 |
| 4/29/2015 | 14:35:08 | 55.77 | 53.27 | 223 | 1.51 | 1.45 | 12.2 |
| 4/29/2015 | 14:35:10 | 56.10 | 53.60 | 171 | 1.42 | 1.27 | 9.3 |
| 4/29/2015 | 14:35:13 | 56.43 | 53.93 | 159 | 1.56 | 1.26 | 8.7 |
| 4/29/2015 | 14:35:15 | 56.76 | 54.26 | 148 | 1.36 | 1.15 | 8.1 |
| 4/29/2015 | 14:35:19 | 57.09 | 54.59 | 78 | 0.95 | 1.07 | 4.2 |
| 4/29/2015 | 14:35:26 | 57.41 | 54.91 | 40 | 0.98 | 0.81 | 2.2 |
| 4/29/2015 | 14:35:36 | 57.74 | 55.24 | 40 | 0.98 | 0.82 | 2.2 |
| 4/29/2015 | 14:35:43 | 58.07 | 55.57 | 59 | 1.00 | 1.05 | 3.2 |
| 4/29/2015 | 14:35:52 | 58.40 | 55.90 | 35 | 1.00 | 0.85 | 1.9 |
| 4/29/2015 | 14:36:01 | 58.73 | 56.23 | 42 | 1.05 | 1.09 | 2.3 |
| 4/29/2015 | 14:36:03 | 58.86 | 56.36 | 64 | 0.58 | 1.09 | 3.5 |

## K117 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 14:32:17

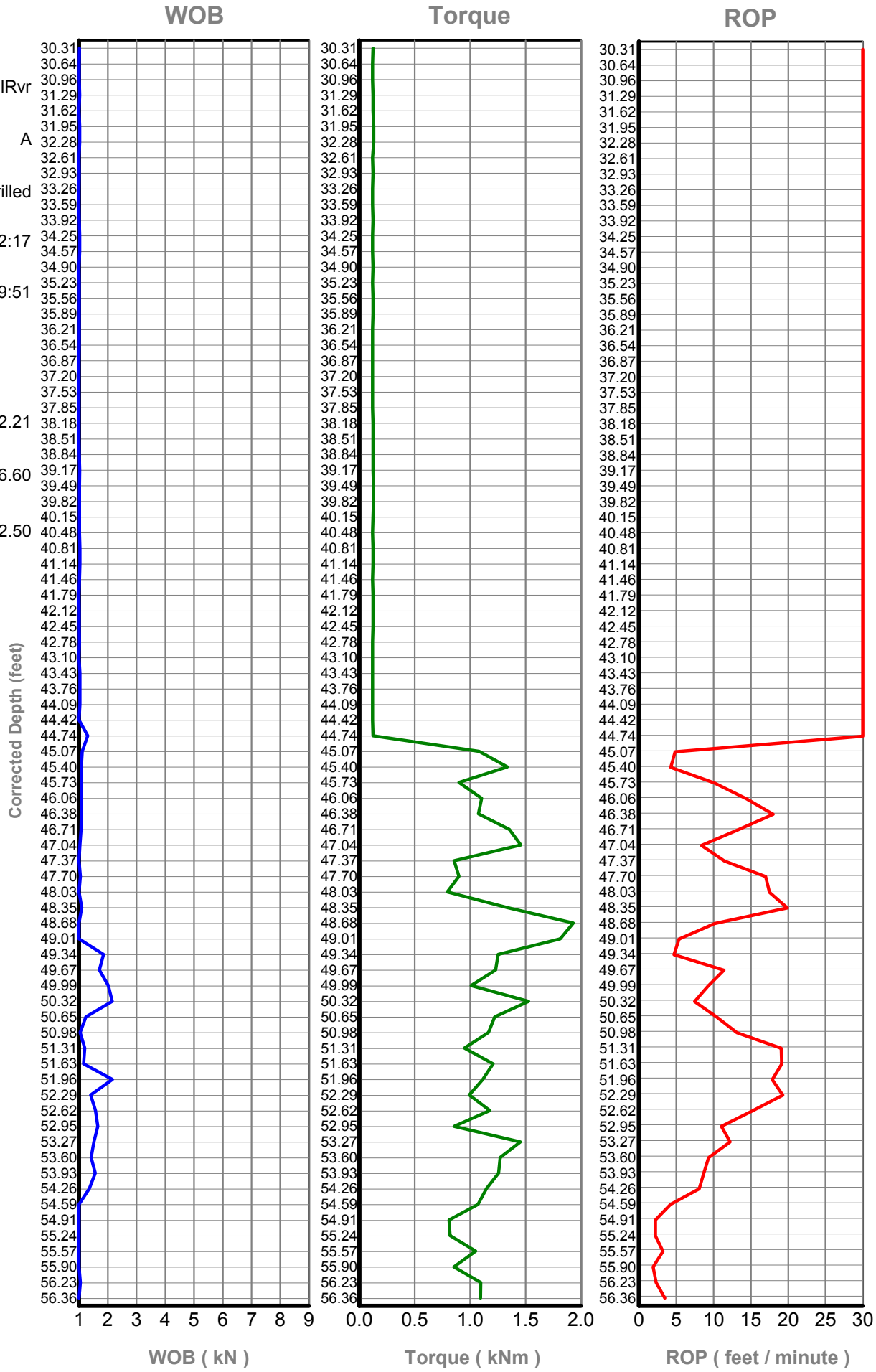
**End Date:**
4/29/2015 14:39:51

**Operator Note:**
'2.5 '1.8 3.8 a Auto Complete'

**Northing:**
361,672.21

**Easting:**
244,696.60

**Tide (feet):**
2.50



## Hole: K118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:41:36 | 36.42 | 30.22 | 1,123 | 1.56 | 0.27 | 61.4 |
| 4/29/2015 10:41:37 | 36.75 | 30.55 | 1,123 | 1.56 | 0.27 | 61.4 |
| 4/29/2015 10:41:37 | 37.07 | 30.87 | 1,088 | 1.56 | 0.27 | 59.5 |
| 4/29/2015 10:41:37 | 37.40 | 31.20 | 1,088 | 1.55 | 0.27 | 59.5 |
| 4/29/2015 10:41:38 | 37.73 | 31.53 | 1,088 | 1.55 | 0.27 | 59.5 |
| 4/29/2015 10:41:38 | 38.06 | 31.86 | 1,104 | 1.56 | 0.27 | 60.3 |
| 4/29/2015 10:41:38 | 38.39 | 32.19 | 1,104 | 1.56 | 0.27 | 60.3 |
| 4/29/2015 10:41:38 | 38.71 | 32.51 | 1,121 | 1.54 | 0.27 | 61.3 |
| 4/29/2015 10:41:39 | 39.04 | 32.84 | 1,123 | 1.28 | 0.27 | 61.4 |
| 4/29/2015 10:41:39 | 39.37 | 33.17 | 1,123 | 1.28 | 0.27 | 61.4 |
| 4/29/2015 10:41:39 | 39.70 | 33.50 | 1,095 | 1.57 | 0.27 | 59.9 |
| 4/29/2015 10:41:40 | 40.03 | 33.83 | 1,095 | 1.57 | 0.27 | 59.9 |
| 4/29/2015 10:41:40 | 40.35 | 34.15 | 1,123 | 1.55 | 0.27 | 61.4 |
| 4/29/2015 10:41:40 | 40.68 | 34.48 | 1,123 | 1.54 | 0.27 | 61.4 |
| 4/29/2015 10:41:41 | 41.01 | 34.81 | 1,123 | 1.54 | 0.27 | 61.4 |
| 4/29/2015 10:41:41 | 41.34 | 35.14 | 1,111 | 1.55 | 0.27 | 60.8 |
| 4/29/2015 10:41:41 | 41.67 | 35.47 | 1,112 | 1.56 | 0.27 | 60.8 |
| 4/29/2015 10:41:42 | 41.99 | 35.79 | 1,112 | 1.56 | 0.27 | 60.8 |
| 4/29/2015 10:41:42 | 42.32 | 36.12 | 1,099 | 1.55 | 0.27 | 60.1 |
| 4/29/2015 10:41:42 | 42.65 | 36.45 | 1,099 | 1.55 | 0.27 | 60.1 |
| 4/29/2015 10:41:42 | 42.98 | 36.78 | 1,125 | 1.56 | 0.27 | 61.5 |
| 4/29/2015 10:41:43 | 43.31 | 37.11 | 1,098 | 1.56 | 0.27 | 60.1 |
| 4/29/2015 10:41:43 | 43.64 | 37.44 | 1,098 | 1.56 | 0.27 | 60.1 |
| 4/29/2015 10:41:43 | 43.96 | 37.76 | 1,098 | 1.56 | 0.27 | 60.1 |
| 4/29/2015 10:41:44 | 44.29 | 38.09 | 1,098 | 1.56 | 0.27 | 60.1 |
| 4/29/2015 10:41:44 | 44.62 | 38.42 | 1,106 | 1.58 | 0.27 | 60.5 |
| 4/29/2015 10:41:44 | 44.95 | 38.75 | 1,094 | 1.55 | 0.27 | 59.8 |
| 4/29/2015 10:41:45 | 45.28 | 39.08 | 1,094 | 1.55 | 0.27 | 59.8 |
| 4/29/2015 10:41:45 | 45.60 | 39.40 | 1,120 | 1.53 | 0.27 | 61.2 |
| 4/29/2015 10:41:45 | 45.93 | 39.73 | 1,083 | 1.47 | 0.27 | 59.2 |
| 4/29/2015 10:41:46 | 46.26 | 40.06 | 1,083 | 1.47 | 0.27 | 59.2 |
| 4/29/2015 10:41:46 | 46.59 | 40.39 | 1,083 | 1.55 | 0.27 | 59.2 |
| 4/29/2015 10:41:47 | 46.92 | 40.72 | 1,083 | 1.55 | 0.27 | 59.2 |
| 4/29/2015 10:41:47 | 47.24 | 41.04 | 1,120 | 1.55 | 0.26 | 61.2 |
| 4/29/2015 10:41:47 | 47.57 | 41.37 | 1,094 | 1.59 | 0.27 | 59.8 |
| 4/29/2015 10:41:48 | 47.90 | 41.70 | 1,094 | 1.59 | 0.27 | 59.8 |
| 4/29/2015 10:41:48 | 48.23 | 42.03 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 10:41:48 | 48.56 | 42.36 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 10:41:48 | 48.88 | 42.68 | 1,074 | 1.55 | 0.27 | 58.7 |
| 4/29/2015 10:41:49 | 49.21 | 43.01 | 1,074 | 1.66 | 0.27 | 58.7 |
| 4/29/2015 10:41:59 | 49.54 | 43.34 | 32 | 1.65 | 1.20 | 1.8 |
| 4/29/2015 10:42:04 | 49.87 | 43.67 | 70 | 1.66 | 1.20 | 3.8 |
| 4/29/2015 10:42:15 | 50.20 | 44.00 | 30 | 1.67 | 1.20 | 1.7 |
| 4/29/2015 10:42:26 | 50.53 | 44.33 | 36 | 1.68 | 1.21 | 2.0 |
| 4/29/2015 10:42:35 | 50.85 | 44.65 | 38 | 1.71 | 1.21 | 2.1 |
| 4/29/2015 10:42:43 | 51.18 | 44.98 | 47 | 1.66 | 1.17 | 2.6 |
| 4/29/2015 10:42:49 | 51.51 | 45.31 | 59 | 1.67 | 1.13 | 3.2 |

## K118 - Summary

**Pattern Number:**
AreaK_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:39:58

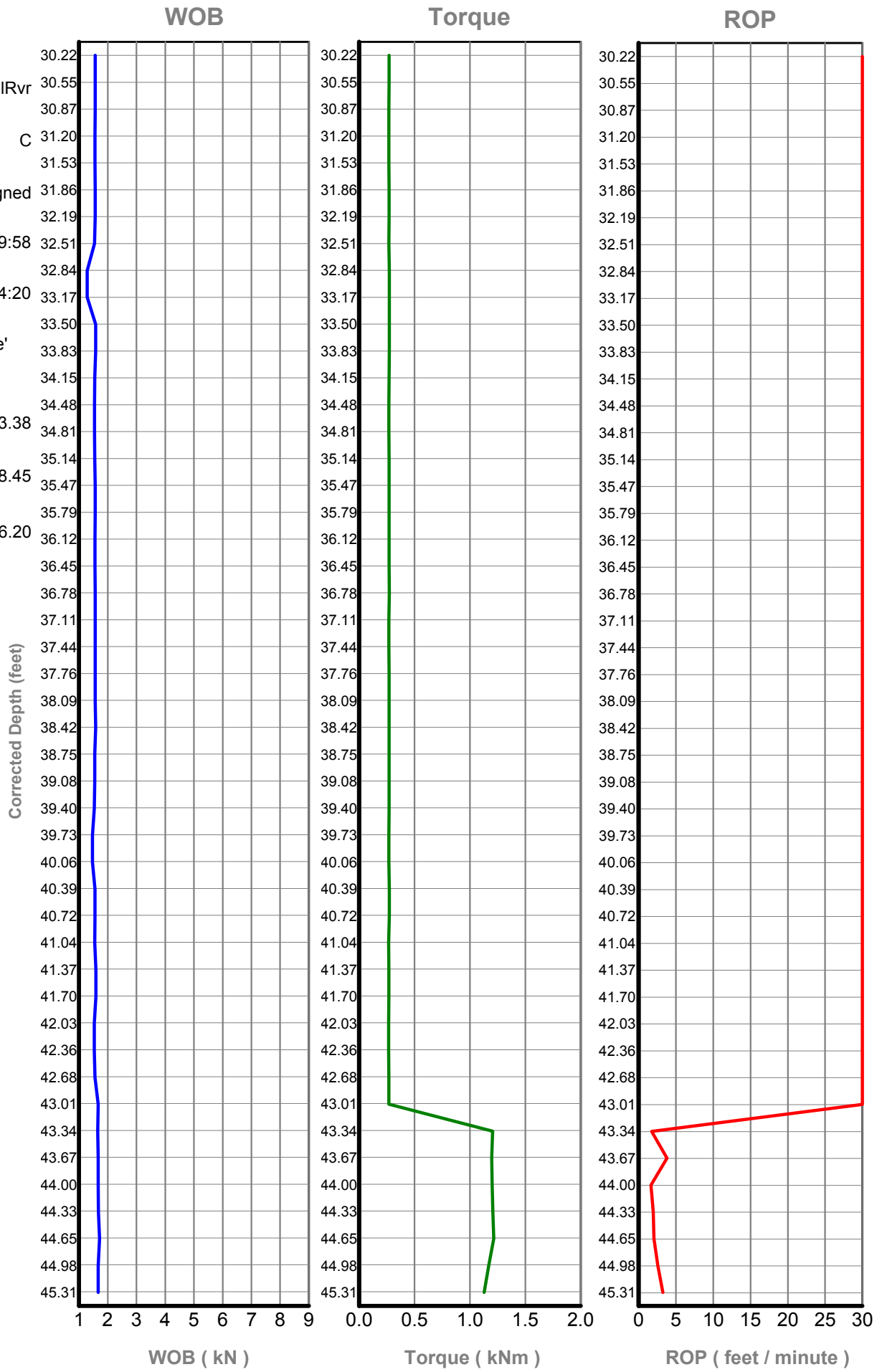
**End Date:**
4/29/2015 10:44:20

**Operator Note:**
'6.2 6.3 c Auto Complete'

**Northing:**
361,923.38

**Easting:**
245,018.45

**Tide (feet):**
6.20



## Hole: K119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:58:58 | 36.09 | 30.19 | 1,070 | 1.59 | 0.26 | 58.5 |
| 4/29/2015 10:58:58 | 36.42 | 30.52 | 1,063 | 1.59 | 0.27 | 58.1 |
| 4/29/2015 10:58:59 | 36.75 | 30.85 | 1,063 | 1.59 | 0.27 | 58.1 |
| 4/29/2015 10:58:59 | 37.07 | 31.17 | 1,072 | 1.59 | 0.26 | 58.6 |
| 4/29/2015 10:58:59 | 37.40 | 31.50 | 1,072 | 1.59 | 0.26 | 58.6 |
| 4/29/2015 10:59:00 | 37.73 | 31.83 | 1,072 | 1.59 | 0.26 | 58.6 |
| 4/29/2015 10:59:00 | 38.06 | 32.16 | 1,070 | 1.60 | 0.26 | 58.5 |
| 4/29/2015 10:59:00 | 38.39 | 32.49 | 1,067 | 1.59 | 0.26 | 58.3 |
| 4/29/2015 10:59:01 | 38.71 | 32.81 | 1,067 | 1.59 | 0.26 | 58.3 |
| 4/29/2015 10:59:01 | 39.04 | 33.14 | 1,070 | 1.60 | 0.26 | 58.5 |
| 4/29/2015 10:59:01 | 39.37 | 33.47 | 1,058 | 1.59 | 0.26 | 57.8 |
| 4/29/2015 10:59:02 | 39.70 | 33.80 | 1,058 | 1.59 | 0.26 | 57.8 |
| 4/29/2015 10:59:02 | 40.03 | 34.13 | 1,061 | 1.59 | 0.26 | 58.0 |
| 4/29/2015 10:59:02 | 40.35 | 34.45 | 1,055 | 1.57 | 0.26 | 57.7 |
| 4/29/2015 10:59:03 | 40.68 | 34.78 | 1,055 | 1.57 | 0.26 | 57.7 |
| 4/29/2015 10:59:03 | 41.01 | 35.11 | 1,067 | 1.59 | 0.26 | 58.3 |
| 4/29/2015 10:59:03 | 41.34 | 35.44 | 1,061 | 1.60 | 0.26 | 58.0 |
| 4/29/2015 10:59:04 | 41.67 | 35.77 | 1,061 | 1.60 | 0.26 | 58.0 |
| 4/29/2015 10:59:04 | 41.99 | 36.09 | 1,064 | 1.55 | 0.27 | 58.2 |
| 4/29/2015 10:59:04 | 42.32 | 36.42 | 1,064 | 1.55 | 0.27 | 58.2 |
| 4/29/2015 10:59:04 | 42.65 | 36.75 | 1,061 | 1.55 | 0.27 | 58.0 |
| 4/29/2015 10:59:05 | 42.98 | 37.08 | 1,069 | 1.55 | 0.26 | 58.5 |
| 4/29/2015 10:59:05 | 43.31 | 37.41 | 1,069 | 1.55 | 0.26 | 58.5 |
| 4/29/2015 10:59:05 | 43.64 | 37.74 | 1,069 | 1.56 | 0.27 | 58.5 |
| 4/29/2015 10:59:06 | 43.96 | 38.06 | 1,075 | 1.55 | 0.26 | 58.8 |
| 4/29/2015 10:59:06 | 44.29 | 38.39 | 1,075 | 1.55 | 0.26 | 58.8 |
| 4/29/2015 10:59:06 | 44.62 | 38.72 | 1,083 | 1.54 | 0.26 | 59.2 |
| 4/29/2015 10:59:07 | 44.95 | 39.05 | 1,083 | 1.54 | 0.26 | 59.2 |
| 4/29/2015 10:59:07 | 45.28 | 39.38 | 1,096 | 1.53 | 0.26 | 59.9 |
| 4/29/2015 10:59:08 | 45.60 | 39.70 | 1,096 | 1.55 | 0.26 | 59.9 |
| 4/29/2015 10:59:08 | 45.93 | 40.03 | 1,096 | 1.55 | 0.26 | 59.9 |
| 4/29/2015 10:59:08 | 46.26 | 40.36 | 1,096 | 1.56 | 0.26 | 59.9 |
| 4/29/2015 10:59:09 | 46.59 | 40.69 | 1,101 | 1.54 | 0.27 | 60.2 |
| 4/29/2015 10:59:09 | 46.92 | 41.02 | 1,101 | 1.54 | 0.27 | 60.2 |
| 4/29/2015 10:59:09 | 47.24 | 41.34 | 1,105 | 1.53 | 0.26 | 60.4 |
| 4/29/2015 10:59:10 | 47.57 | 41.67 | 1,105 | 1.53 | 0.26 | 60.4 |
| 4/29/2015 10:59:10 | 47.90 | 42.00 | 1,098 | 1.57 | 0.27 | 60.1 |
| 4/29/2015 10:59:10 | 48.23 | 42.33 | 1,098 | 1.55 | 0.26 | 60.1 |
| 4/29/2015 10:59:11 | 48.56 | 42.66 | 1,098 | 1.55 | 0.26 | 60.1 |
| 4/29/2015 10:59:11 | 48.88 | 42.98 | 1,092 | 1.55 | 0.26 | 59.7 |
| 4/29/2015 10:59:11 | 49.21 | 43.31 | 1,099 | 1.53 | 0.26 | 60.1 |
| 4/29/2015 10:59:12 | 49.54 | 43.64 | 1,099 | 1.53 | 0.26 | 60.1 |
| 4/29/2015 10:59:12 | 49.87 | 43.97 | 1,099 | 1.56 | 0.26 | 60.1 |
| 4/29/2015 10:59:12 | 50.20 | 44.30 | 1,099 | 1.56 | 0.26 | 60.1 |
| 4/29/2015 10:59:12 | 50.53 | 44.63 | 1,096 | 1.55 | 0.26 | 59.9 |
| 4/29/2015 10:59:13 | 50.85 | 44.95 | 1,096 | 1.54 | 0.26 | 59.9 |
| 4/29/2015 10:59:13 | 51.18 | 45.28 | 1,096 | 1.54 | 0.26 | 59.9 |
| 4/29/2015 10:59:13 | 51.51 | 45.61 | 1,105 | 1.55 | 0.26 | 60.4 |
| 4/29/2015 10:59:14 | 51.84 | 45.94 | 1,090 | 1.66 | 0.27 | 59.6 |
| 4/29/2015 10:59:32 | 52.17 | 46.27 | 88 | 1.68 | 1.24 | 4.8 |
| 4/29/2015 10:59:39 | 52.49 | 46.59 | 58 | 1.66 | 1.33 | 3.2 |
| 4/29/2015 10:59:43 | 52.82 | 46.92 | 73 | 1.66 | 1.33 | 4.0 |
| 4/29/2015 10:59:50 | 53.15 | 47.25 | 56 | 1.67 | 1.26 | 3.1 |
| 4/29/2015 10:59:56 | 53.48 | 47.58 | 54 | 1.64 | 1.21 | 2.9 |
| 4/29/2015 11:00:03 | 53.81 | 47.91 | 52 | 1.66 | 1.27 | 2.8 |
| 4/29/2015 11:00:10 | 54.13 | 48.23 | 47 | 1.68 | 1.20 | 2.6 |
| 4/29/2015 11:00:17 | 54.46 | 48.56 | 54 | 1.66 | 1.24 | 3.0 |
| 4/29/2015 11:00:21 | 54.69 | 48.79 | 58 | 1.68 | 1.32 | 3.2 |

## K119 - Summary

**Pattern Number:**
AreaK_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 10:57:48

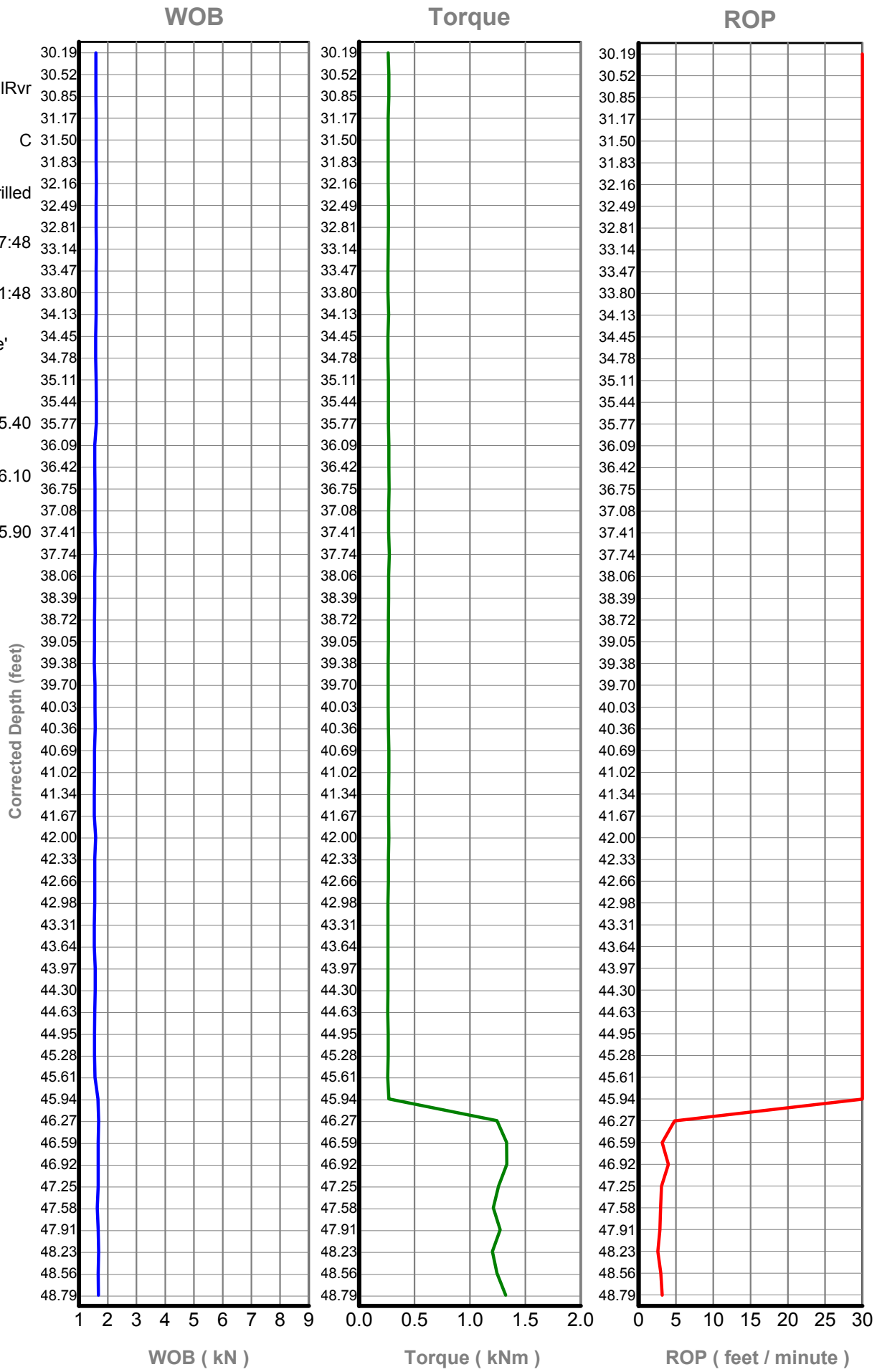
**End Date:**
4/29/2015 11:01:48

**Operator Note:**
'5.9 6.1 c Auto Complete'

**Northing:**
361,985.40

**Easting:**
245,086.10

**Tide (feet):**
5.90



## Hole: K12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:48:37 | 30.84 | 30.14 | 1,130 | 0.33 | 0.38 | 61.8 |
| 4/30/2015 5:48:37 | 31.17 | 30.47 | 1,144 | 0.33 | 0.38 | 62.6 |
| 4/30/2015 5:48:38 | 31.50 | 30.80 | 1,144 | 0.33 | 0.38 | 62.6 |
| 4/30/2015 5:48:38 | 31.82 | 31.12 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 5:48:38 | 32.15 | 31.45 | 1,116 | 0.30 | 0.42 | 61.0 |
| 4/30/2015 5:48:39 | 32.48 | 31.78 | 1,116 | 0.30 | 0.42 | 61.0 |
| 4/30/2015 5:48:44 | 32.81 | 32.11 | 81 | 5.61 | 0.48 | 4.4 |
| 4/30/2015 5:48:49 | 33.14 | 32.44 | 64 | 4.71 | 0.47 | 3.5 |
| 4/30/2015 5:48:51 | 33.46 | 32.76 | 166 | 3.37 | 0.44 | 9.1 |
| 4/30/2015 5:48:52 | 33.79 | 33.09 | 266 | 4.07 | 0.45 | 14.5 |
| 4/30/2015 5:49:10 | 34.12 | 33.42 | 0 | 4.10 | 0.47 | 0.0 |
| 4/30/2015 5:49:14 | 34.45 | 33.75 | 72 | 3.58 | 0.47 | 4.0 |
| 4/30/2015 5:49:19 | 34.78 | 34.08 | 98 | 4.82 | 0.47 | 5.4 |
| 4/30/2015 5:49:20 | 35.11 | 34.41 | 150 | 3.59 | 0.44 | 8.2 |
| 4/30/2015 5:49:21 | 35.43 | 34.73 | 195 | 2.87 | 0.42 | 10.7 |
| 4/30/2015 5:49:21 | 35.76 | 35.06 | 308 | 2.76 | 0.42 | 16.8 |
| 4/30/2015 5:49:22 | 36.09 | 35.39 | 427 | 2.45 | 0.41 | 23.4 |
| 4/30/2015 5:49:22 | 36.42 | 35.72 | 555 | 2.64 | 0.41 | 30.3 |
| 4/30/2015 5:49:23 | 36.75 | 36.05 | 555 | 2.72 | 0.42 | 30.3 |
| 4/30/2015 5:49:23 | 37.07 | 36.37 | 646 | 2.90 | 0.44 | 35.3 |
| 4/30/2015 5:49:24 | 37.40 | 36.70 | 637 | 2.90 | 0.43 | 34.8 |
| 4/30/2015 5:49:25 | 37.73 | 37.03 | 589 | 3.10 | 0.44 | 32.2 |
| 4/30/2015 5:49:29 | 38.06 | 37.36 | 13 | 3.05 | 0.47 | 0.7 |
| 4/30/2015 5:49:35 | 38.39 | 37.69 | 52 | 3.31 | 0.47 | 2.8 |
| 4/30/2015 5:49:42 | 38.71 | 38.01 | 46 | 3.34 | 0.47 | 2.5 |
| 4/30/2015 5:49:49 | 39.04 | 38.34 | 49 | 3.10 | 0.47 | 2.7 |
| 4/30/2015 5:49:55 | 39.30 | 38.60 | 47 | 3.24 | 0.48 | 2.6 |

## K12 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:43:58

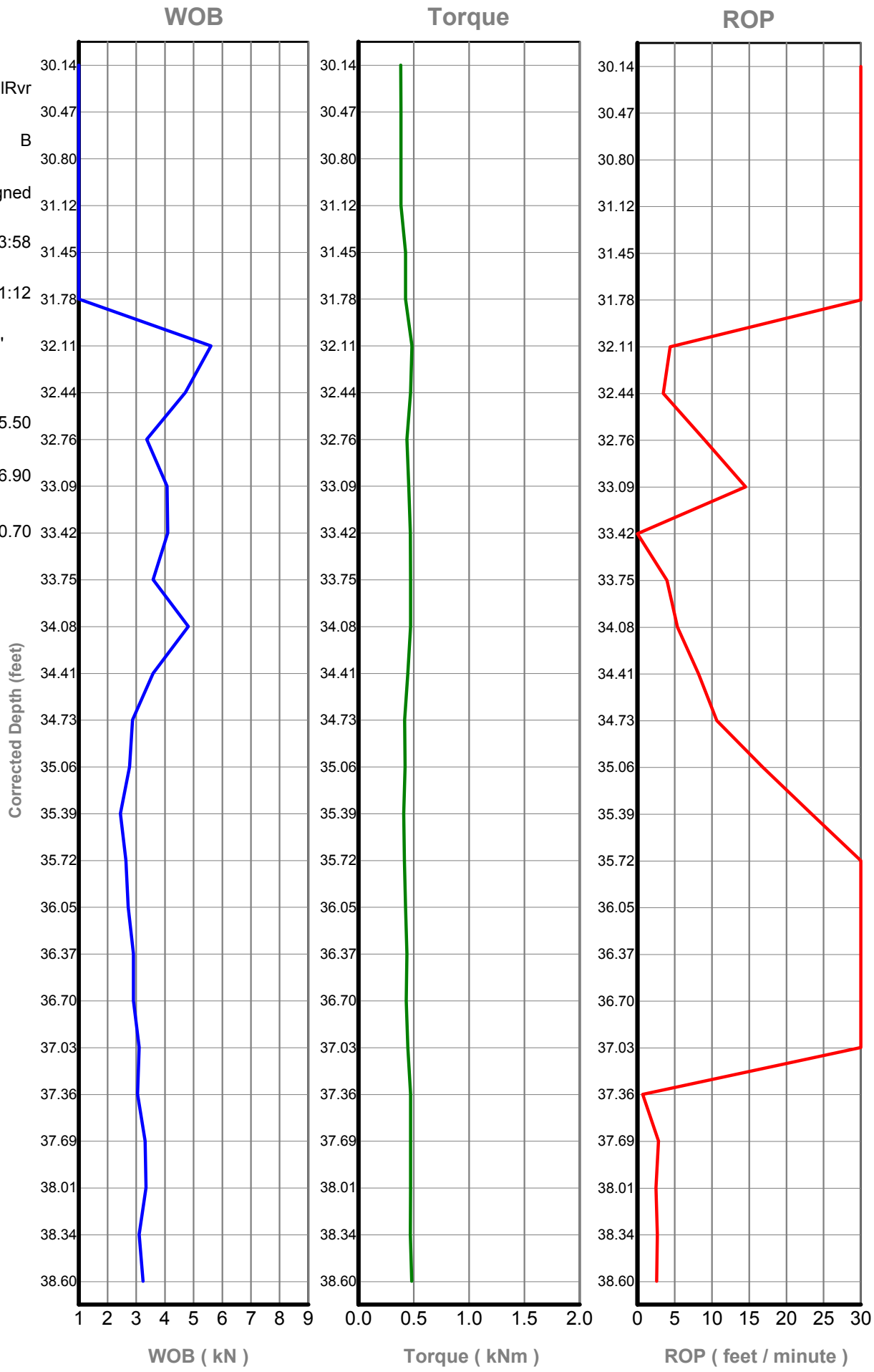
**End Date:**
4/30/2015 5:51:12

**Operator Note:**
'0.7 0.7b Auto Complete'

**Northing:**
362,355.50

**Easting:**
244,956.90

**Tide (feet):**
0.70



## Hole: K120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:47:19 | 31.17 | 30.17 | 1,109 | 1.73 | 0.24 | 60.7 |
| 4/30/2015 4:47:20 | 31.50 | 30.50 | 1,103 | 1.72 | 0.23 | 60.3 |
| 4/30/2015 4:47:20 | 31.82 | 30.82 | 1,103 | 1.72 | 0.23 | 60.3 |
| 4/30/2015 4:47:20 | 32.15 | 31.15 | 1,103 | 1.71 | 0.24 | 60.3 |
| 4/30/2015 4:47:21 | 32.48 | 31.48 | 1,103 | 1.71 | 0.24 | 60.3 |
| 4/30/2015 4:47:21 | 32.81 | 31.81 | 1,126 | 1.70 | 0.23 | 61.5 |
| 4/30/2015 4:47:21 | 33.14 | 32.14 | 1,157 | 1.72 | 0.24 | 63.3 |
| 4/30/2015 4:47:22 | 33.46 | 32.46 | 1,157 | 1.72 | 0.24 | 63.3 |
| 4/30/2015 4:47:22 | 33.79 | 32.79 | 1,153 | 1.70 | 0.24 | 63.1 |
| 4/30/2015 4:47:22 | 34.12 | 33.12 | 1,153 | 1.70 | 0.24 | 63.1 |
| 4/30/2015 4:47:22 | 34.45 | 33.45 | 1,150 | 1.74 | 0.24 | 62.9 |
| 4/30/2015 4:47:23 | 34.78 | 33.78 | 1,137 | 1.71 | 0.24 | 62.2 |
| 4/30/2015 4:47:23 | 35.11 | 34.11 | 1,137 | 1.71 | 0.24 | 62.2 |
| 4/30/2015 4:47:23 | 35.43 | 34.43 | 1,137 | 1.70 | 0.24 | 62.2 |
| 4/30/2015 4:47:24 | 35.76 | 34.76 | 1,137 | 1.70 | 0.24 | 62.2 |
| 4/30/2015 4:47:24 | 36.09 | 35.09 | 1,146 | 1.70 | 0.23 | 62.7 |
| 4/30/2015 4:47:24 | 36.42 | 35.42 | 1,150 | 1.70 | 0.23 | 62.9 |
| 4/30/2015 4:47:25 | 36.75 | 35.75 | 1,150 | 1.70 | 0.23 | 62.9 |
| 4/30/2015 4:47:25 | 37.07 | 36.07 | 1,145 | 1.72 | 0.24 | 62.6 |
| 4/30/2015 4:47:25 | 37.40 | 36.40 | 1,145 | 1.72 | 0.24 | 62.6 |
| 4/30/2015 4:47:25 | 37.73 | 36.73 | 1,149 | 1.69 | 0.23 | 62.8 |
| 4/30/2015 4:47:26 | 38.06 | 37.06 | 1,149 | 1.69 | 0.23 | 62.8 |
| 4/30/2015 4:47:26 | 38.39 | 37.39 | 1,162 | 1.70 | 0.23 | 63.6 |
| 4/30/2015 4:47:27 | 38.71 | 37.71 | 1,149 | 1.70 | 0.23 | 62.8 |
| 4/30/2015 4:47:27 | 39.04 | 38.04 | 1,149 | 1.70 | 0.23 | 62.8 |
| 4/30/2015 4:47:27 | 39.37 | 38.37 | 1,159 | 1.72 | 0.23 | 63.4 |
| 4/30/2015 4:47:28 | 39.70 | 38.70 | 1,159 | 1.72 | 0.23 | 63.4 |
| 4/30/2015 4:47:28 | 40.03 | 39.03 | 1,153 | 1.70 | 0.24 | 63.1 |
| 4/30/2015 4:47:28 | 40.35 | 39.35 | 1,156 | 1.71 | 0.24 | 63.2 |
| 4/30/2015 4:47:29 | 40.68 | 39.68 | 1,156 | 1.71 | 0.24 | 63.2 |
| 4/30/2015 4:47:29 | 41.01 | 40.01 | 1,154 | 1.70 | 0.23 | 63.1 |
| 4/30/2015 4:47:29 | 41.34 | 40.34 | 1,154 | 1.70 | 0.23 | 63.1 |
| 4/30/2015 4:47:29 | 41.67 | 40.67 | 1,154 | 1.71 | 0.23 | 63.1 |
| 4/30/2015 4:47:30 | 41.99 | 40.99 | 1,151 | 1.71 | 0.23 | 62.9 |
| 4/30/2015 4:47:30 | 42.32 | 41.32 | 1,151 | 1.71 | 0.23 | 62.9 |
| 4/30/2015 4:47:30 | 42.65 | 41.65 | 1,151 | 1.72 | 0.23 | 62.9 |
| 4/30/2015 4:47:31 | 42.98 | 41.98 | 1,151 | 1.72 | 0.23 | 62.9 |
| 4/30/2015 4:47:31 | 43.31 | 42.31 | 1,144 | 1.70 | 0.23 | 62.5 |
| 4/30/2015 4:47:31 | 43.64 | 42.64 | 1,153 | 1.70 | 0.23 | 63.1 |
| 4/30/2015 4:47:32 | 43.96 | 42.96 | 1,153 | 1.70 | 0.23 | 63.1 |
| 4/30/2015 4:47:32 | 44.29 | 43.29 | 1,153 | 1.71 | 0.23 | 63.1 |
| 4/30/2015 4:47:32 | 44.62 | 43.62 | 1,153 | 1.71 | 0.23 | 63.1 |
| 4/30/2015 4:47:32 | 44.95 | 43.95 | 1,151 | 1.70 | 0.23 | 62.9 |
| 4/30/2015 4:47:33 | 45.28 | 44.28 | 1,153 | 1.72 | 0.23 | 63.1 |
| 4/30/2015 4:47:33 | 45.60 | 44.60 | 1,153 | 1.72 | 0.23 | 63.1 |
| 4/30/2015 4:47:33 | 45.93 | 44.93 | 1,153 | 1.74 | 0.23 | 63.1 |
| 4/30/2015 4:47:34 | 46.26 | 45.26 | 1,153 | 1.74 | 0.23 | 63.1 |
| 4/30/2015 4:47:34 | 46.59 | 45.59 | 1,150 | 1.95 | 0.23 | 62.9 |
| 4/30/2015 4:48:08 | 46.92 | 45.92 | 70 | 1.04 | 1.12 | 3.8 |
| 4/30/2015 4:48:12 | 47.24 | 46.24 | 80 | 1.06 | 1.10 | 4.4 |
| 4/30/2015 4:48:17 | 47.57 | 46.57 | 82 | 1.16 | 1.01 | 4.5 |
| 4/30/2015 4:48:23 | 47.90 | 46.90 | 64 | 1.09 | 1.24 | 3.5 |
| 4/30/2015 4:48:33 | 48.23 | 47.23 | 32 | 1.10 | 0.95 | 1.7 |
| 4/30/2015 4:48:46 | 48.56 | 47.56 | 29 | 1.11 | 0.88 | 1.6 |
| 4/30/2015 4:48:52 | 48.71 | 47.71 | 29 | 1.17 | 1.08 | 1.6 |

## K120 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:43:58

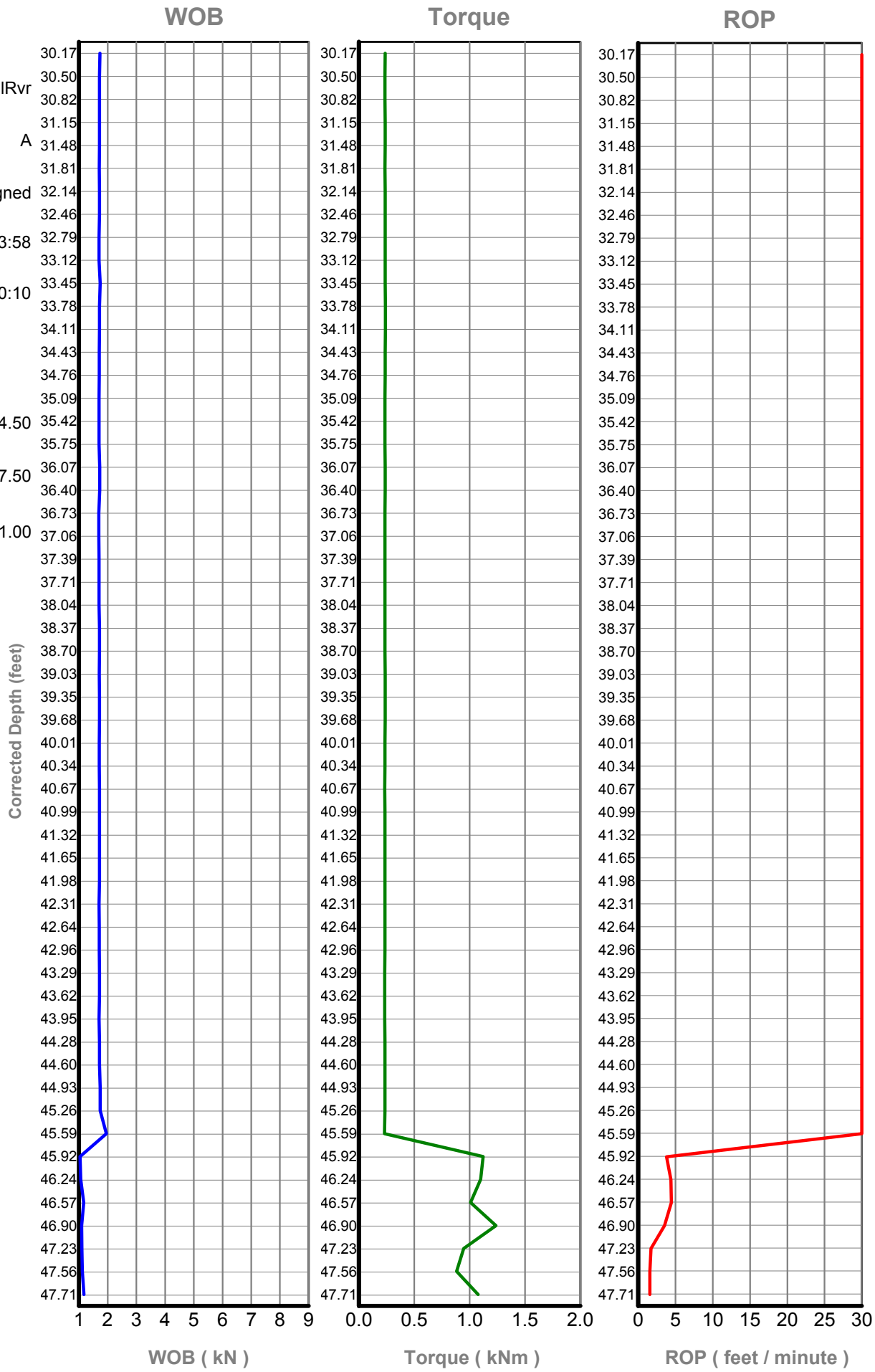
**End Date:**
4/30/2015 4:50:10

**Operator Note:**
'1 1 a Auto Complete'

**Northing:**
362,014.50

**Easting:**
245,137.50

**Tide (feet):**
1.00



## Hole: K121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:46:24 | 31.17 | 30.17 | 1,107 | 0.32 | 0.39 | 60.5 |
| 4/30/2015 4:46:24 | 31.50 | 30.50 | 1,098 | 0.32 | 0.39 | 60.0 |
| 4/30/2015 4:46:24 | 31.82 | 30.82 | 1,095 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:25 | 32.15 | 31.15 | 1,095 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:25 | 32.48 | 31.48 | 1,098 | 0.32 | 0.40 | 60.1 |
| 4/30/2015 4:46:25 | 32.81 | 31.81 | 1,105 | 0.32 | 0.39 | 60.4 |
| 4/30/2015 4:46:26 | 33.14 | 32.14 | 1,105 | 0.32 | 0.39 | 60.4 |
| 4/30/2015 4:46:26 | 33.46 | 32.46 | 1,096 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:26 | 33.79 | 32.79 | 1,096 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:26 | 34.12 | 33.12 | 1,096 | 0.32 | 0.38 | 59.9 |
| 4/30/2015 4:46:27 | 34.45 | 33.45 | 1,102 | 0.32 | 0.38 | 60.3 |
| 4/30/2015 4:46:28 | 34.78 | 33.78 | 1,102 | 0.32 | 0.38 | 60.3 |
| 4/30/2015 4:46:28 | 35.11 | 34.11 | 1,096 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:28 | 35.43 | 34.43 | 1,089 | 0.32 | 0.39 | 59.6 |
| 4/30/2015 4:46:29 | 35.76 | 34.76 | 1,089 | 0.32 | 0.39 | 59.6 |
| 4/30/2015 4:46:29 | 36.09 | 35.09 | 1,098 | 0.33 | 0.40 | 60.1 |
| 4/30/2015 4:46:29 | 36.42 | 35.42 | 1,096 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:46:30 | 36.75 | 35.75 | 1,096 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:46:30 | 37.07 | 36.07 | 1,099 | 0.32 | 0.39 | 60.1 |
| 4/30/2015 4:46:30 | 37.40 | 36.40 | 1,099 | 0.32 | 0.39 | 60.1 |
| 4/30/2015 4:46:30 | 37.73 | 36.73 | 1,096 | 0.32 | 0.39 | 59.9 |
| 4/30/2015 4:46:31 | 38.06 | 37.06 | 1,086 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:46:31 | 38.39 | 37.39 | 1,086 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:46:31 | 38.71 | 37.71 | 1,086 | 0.32 | 0.39 | 59.4 |
| 4/30/2015 4:46:32 | 39.04 | 38.04 | 1,086 | 0.32 | 0.39 | 59.4 |
| 4/30/2015 4:46:32 | 39.37 | 38.37 | 1,090 | 0.32 | 0.39 | 59.6 |
| 4/30/2015 4:46:32 | 39.70 | 38.70 | 1,092 | 0.32 | 0.38 | 59.7 |
| 4/30/2015 4:46:33 | 40.03 | 39.03 | 1,092 | 0.32 | 0.38 | 59.7 |
| 4/30/2015 4:46:33 | 40.35 | 39.35 | 1,093 | 0.32 | 0.38 | 59.8 |
| 4/30/2015 4:46:33 | 40.68 | 39.68 | 1,098 | 0.32 | 0.39 | 60.1 |
| 4/30/2015 4:46:34 | 41.01 | 40.01 | 1,098 | 0.32 | 0.39 | 60.1 |
| 4/30/2015 4:46:34 | 41.34 | 40.34 | 1,114 | 0.32 | 0.39 | 60.9 |
| 4/30/2015 4:46:34 | 41.67 | 40.67 | 1,114 | 0.32 | 0.39 | 60.9 |
| 4/30/2015 4:46:34 | 41.99 | 40.99 | 1,104 | 0.32 | 0.39 | 60.4 |
| 4/30/2015 4:46:35 | 42.32 | 41.32 | 1,110 | 0.29 | 0.39 | 60.7 |
| 4/30/2015 4:46:35 | 42.65 | 41.65 | 1,110 | 0.29 | 0.39 | 60.7 |
| 4/30/2015 4:46:35 | 42.98 | 41.98 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 4:46:36 | 43.31 | 42.31 | 1,104 | 0.32 | 0.39 | 60.4 |
| 4/30/2015 4:46:36 | 43.64 | 42.64 | 1,104 | 0.32 | 0.39 | 60.4 |
| 4/30/2015 4:46:36 | 43.96 | 42.96 | 1,097 | 0.32 | 0.39 | 60.0 |
| 4/30/2015 4:46:37 | 44.29 | 43.29 | 1,097 | 0.32 | 0.39 | 60.0 |
| 4/30/2015 4:46:37 | 44.62 | 43.62 | 1,107 | 0.32 | 0.39 | 60.5 |
| 4/30/2015 4:46:38 | 44.95 | 43.95 | 1,104 | 0.32 | 0.38 | 60.4 |
| 4/30/2015 4:46:38 | 45.28 | 44.28 | 1,104 | 0.32 | 0.38 | 60.4 |
| 4/30/2015 4:46:38 | 45.60 | 44.60 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 4:46:39 | 45.93 | 44.93 | 1,104 | 0.32 | 0.36 | 60.4 |
| 4/30/2015 4:46:39 | 46.26 | 45.26 | 1,104 | 0.32 | 0.36 | 60.4 |
| 4/30/2015 4:46:39 | 46.59 | 45.59 | 1,117 | 0.30 | 0.41 | 61.1 |
| 4/30/2015 4:46:40 | 46.92 | 45.92 | 1,070 | 0.31 | 0.47 | 58.5 |
| 4/30/2015 4:46:48 | 47.24 | 46.24 | 16 | 3.37 | 0.44 | 0.9 |
| 4/30/2015 4:46:49 | 47.57 | 46.57 | 159 | 4.13 | 0.44 | 8.7 |
| 4/30/2015 4:46:50 | 47.90 | 46.90 | 304 | 3.55 | 0.45 | 16.7 |
| 4/30/2015 4:46:52 | 48.23 | 47.23 | 342 | 4.37 | 0.44 | 18.7 |
| 4/30/2015 4:46:52 | 48.56 | 47.56 | 336 | 3.78 | 0.43 | 18.4 |
| 4/30/2015 4:46:54 | 48.88 | 47.88 | 305 | 3.52 | 0.46 | 16.7 |
| 4/30/2015 4:46:55 | 49.21 | 48.21 | 274 | 4.76 | 0.46 | 15.0 |
| 4/30/2015 4:47:00 | 49.54 | 48.54 | 60 | 3.25 | 0.47 | 3.3 |
| 4/30/2015 4:47:09 | 49.87 | 48.87 | 43 | 2.99 | 0.47 | 2.4 |
| 4/30/2015 4:47:14 | 50.20 | 49.20 | 52 | 3.09 | 0.48 | 2.9 |
| 4/30/2015 4:47:23 | 50.53 | 49.53 | 46 | 3.34 | 0.47 | 2.5 |
| 4/30/2015 4:47:33 | 50.85 | 49.85 | 35 | 3.18 | 0.48 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:47:42 | 51.16 | 50.16 | 32 | 3.50 | 0.47 | 1.7 |

## K121 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:44:56

**End Date:**
4/30/2015 4:49:13

**Operator Note:**
'1 1.0b Auto Complete'

**Northing:**
362,060.00

**Easting:**
245,196.50

**Tide (feet):**
1.00



## Hole: K122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:44:52 | 31.17 | 30.17 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:44:53 | 31.50 | 30.50 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:44:53 | 31.82 | 30.82 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:44:53 | 32.15 | 31.15 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:44:54 | 32.48 | 31.48 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:44:54 | 32.81 | 31.81 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:44:54 | 33.14 | 32.14 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:44:55 | 33.46 | 32.46 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:44:55 | 33.79 | 32.79 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:44:55 | 34.12 | 33.12 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:44:56 | 34.45 | 33.45 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:44:56 | 34.78 | 33.78 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:44:56 | 35.11 | 34.11 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:44:57 | 35.43 | 34.43 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:44:57 | 35.76 | 34.76 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:44:58 | 36.09 | 35.09 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 4:44:58 | 36.42 | 35.42 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 4:44:58 | 36.75 | 35.75 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:44:59 | 37.07 | 36.07 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:44:59 | 37.40 | 36.40 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:44:59 | 37.73 | 36.73 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 4:45:00 | 38.06 | 37.06 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 4:45:00 | 38.39 | 37.39 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:00 | 38.71 | 37.71 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:01 | 39.04 | 38.04 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:01 | 39.37 | 38.37 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:45:01 | 39.70 | 38.70 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:02 | 40.03 | 39.03 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:02 | 40.35 | 39.35 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 4:45:02 | 40.68 | 39.68 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 4:45:02 | 41.01 | 40.01 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 4:45:03 | 41.34 | 40.34 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:03 | 41.67 | 40.67 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:03 | 41.99 | 40.99 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:04 | 42.32 | 41.32 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:45:04 | 42.65 | 41.65 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:45:04 | 42.98 | 41.98 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 4:45:05 | 43.31 | 42.31 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 4:45:05 | 43.64 | 42.64 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 4:45:05 | 43.96 | 42.96 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:06 | 44.29 | 43.29 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:45:06 | 44.62 | 43.62 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:06 | 44.95 | 43.95 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:07 | 45.28 | 44.28 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:45:07 | 45.60 | 44.60 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:45:07 | 45.93 | 44.93 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 4:45:08 | 46.26 | 45.26 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 4:45:19 | 46.59 | 45.59 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:45:26 | 46.92 | 45.92 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:45:27 | 47.24 | 46.24 | 144 | 1.14 | 0.29 | 7.9 |
| 4/30/2015 4:45:31 | 47.57 | 46.57 | 93 | 1.14 | 0.29 | 5.1 |
| 4/30/2015 4:45:34 | 47.90 | 46.90 | 134 | 1.14 | 0.29 | 7.3 |
| 4/30/2015 4:45:36 | 48.23 | 47.23 | 201 | 1.14 | 0.29 | 11.0 |
| 4/30/2015 4:45:37 | 48.56 | 47.56 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 4:45:38 | 48.88 | 47.88 | 308 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 4:45:47 | 49.21 | 48.21 | 129 | 1.14 | 0.29 | 7.0 |
| 4/30/2015 4:45:49 | 49.54 | 48.54 | 171 | 1.14 | 0.29 | 9.4 |
| 4/30/2015 4:45:50 | 49.87 | 48.87 | 217 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 4:45:52 | 50.20 | 49.20 | 209 | 1.14 | 0.29 | 11.4 |
| 4/30/2015 4:45:55 | 50.53 | 49.53 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 4:46:05 | 50.85 | 49.85 | 107 | 1.14 | 0.29 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:46:06 | 51.18 | 50.18 | 167 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 | 4:46:08 | 51.51 | 50.51 | 226 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 | 4:46:09 | 51.84 | 50.84 | 269 | 1.14 | 0.29 | 14.7 |
| 4/30/2015 | 4:46:16 | 52.17 | 51.17 | 8 | 1.14 | 0.29 | 0.4 |
| 4/30/2015 | 4:46:23 | 52.49 | 51.49 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 4:46:30 | 52.82 | 51.82 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 4:46:39 | 53.15 | 52.15 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 | 4:46:47 | 53.48 | 52.48 | 37 | 1.14 | 0.29 | 2.0 |
| 4/30/2015 | 4:46:56 | 53.81 | 52.81 | 36 | 1.14 | 0.29 | 2.0 |
| 4/30/2015 | 4:46:58 | 53.90 | 52.90 | 47 | 1.14 | 0.29 | 2.6 |

## K122 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:43:59

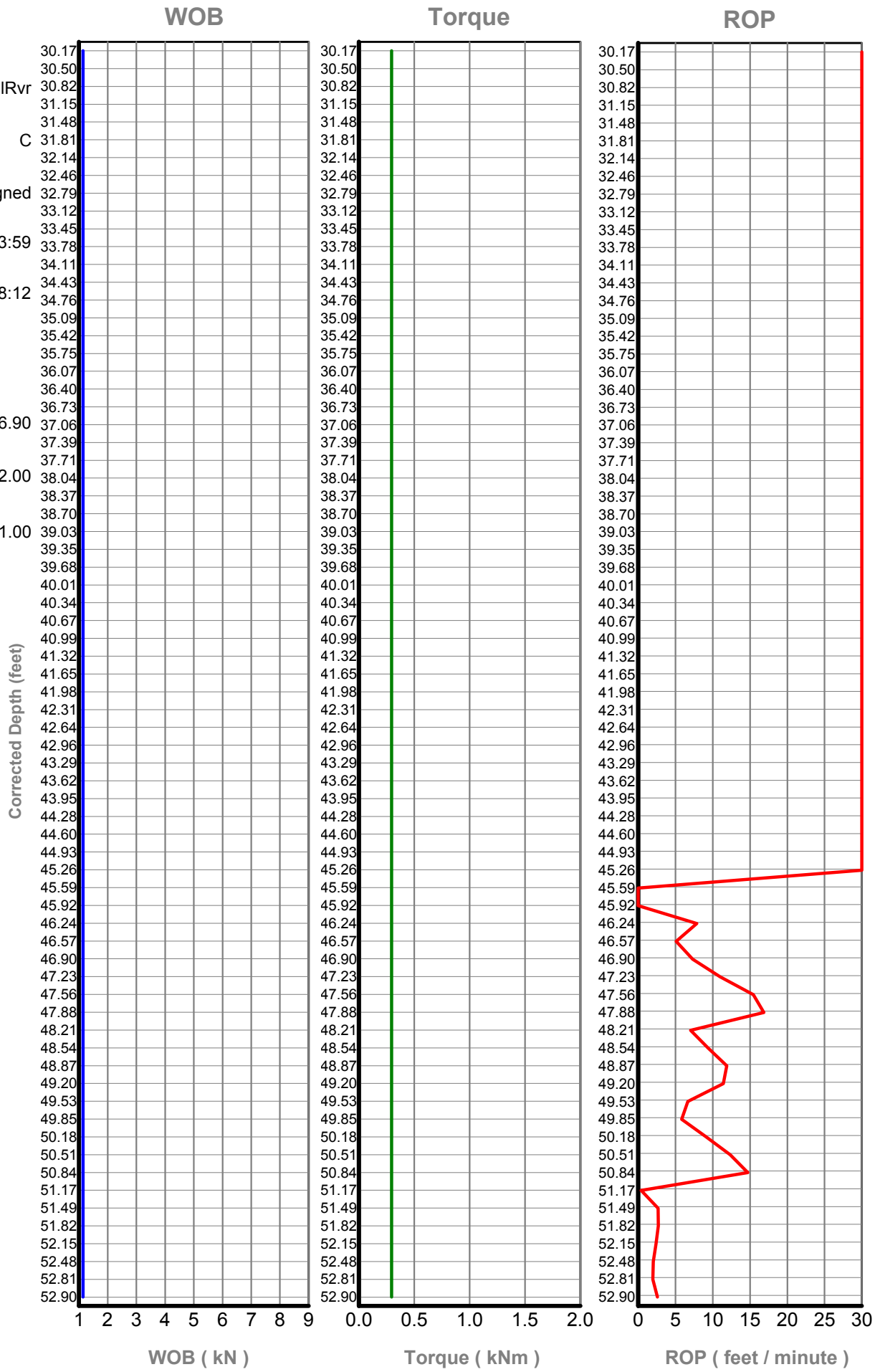
**End Date:**
4/30/2015 4:48:12

**Operator Note:**
'1 1.0 c Auto Complete'

**Northing:**
362,106.90

**Easting:**
245,252.00

**Tide (feet):**
1.00



## Hole: K123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:01:14 | 32.48 | 30.08 | 833 | 1.05 | 0.18 | 45.6 |
| 4/30/2015 3:01:15 | 32.81 | 30.41 | 833 | 1.05 | 0.18 | 45.6 |
| 4/30/2015 3:01:15 | 33.14 | 30.74 | 828 | 1.06 | 0.18 | 45.3 |
| 4/30/2015 3:01:15 | 33.46 | 31.06 | 843 | 1.06 | 0.18 | 46.1 |
| 4/30/2015 3:01:16 | 33.79 | 31.39 | 834 | 1.03 | 0.18 | 45.6 |
| 4/30/2015 3:01:17 | 34.12 | 31.72 | 830 | 1.05 | 0.18 | 45.4 |
| 4/30/2015 3:01:17 | 34.45 | 32.05 | 825 | 1.07 | 0.18 | 45.1 |
| 4/30/2015 3:01:18 | 34.78 | 32.38 | 825 | 1.07 | 0.18 | 45.1 |
| 4/30/2015 3:01:18 | 35.11 | 32.71 | 832 | 1.05 | 0.18 | 45.5 |
| 4/30/2015 3:01:18 | 35.43 | 33.03 | 827 | 1.06 | 0.18 | 45.2 |
| 4/30/2015 3:01:19 | 35.76 | 33.36 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:19 | 36.09 | 33.69 | 824 | 1.06 | 0.18 | 45.1 |
| 4/30/2015 3:01:20 | 36.42 | 34.02 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:20 | 36.75 | 34.35 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:20 | 37.07 | 34.67 | 824 | 1.05 | 0.18 | 45.1 |
| 4/30/2015 3:01:21 | 37.40 | 35.00 | 824 | 1.06 | 0.18 | 45.1 |
| 4/30/2015 3:01:21 | 37.73 | 35.33 | 819 | 1.06 | 0.18 | 44.8 |
| 4/30/2015 3:01:22 | 38.06 | 35.66 | 830 | 1.06 | 0.18 | 45.4 |
| 4/30/2015 3:01:22 | 38.39 | 35.99 | 827 | 1.07 | 0.18 | 45.2 |
| 4/30/2015 3:01:23 | 38.71 | 36.31 | 827 | 1.07 | 0.18 | 45.2 |
| 4/30/2015 3:01:23 | 39.04 | 36.64 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:23 | 39.37 | 36.97 | 830 | 1.05 | 0.18 | 45.4 |
| 4/30/2015 3:01:24 | 39.70 | 37.30 | 825 | 1.07 | 0.18 | 45.1 |
| 4/30/2015 3:01:24 | 40.03 | 37.63 | 827 | 1.03 | 0.18 | 45.2 |
| 4/30/2015 3:01:25 | 40.35 | 37.95 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:25 | 40.68 | 38.28 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 3:01:25 | 41.01 | 38.61 | 820 | 1.05 | 0.18 | 44.8 |
| 4/30/2015 3:01:26 | 41.34 | 38.94 | 822 | 1.00 | 0.18 | 44.9 |
| 4/30/2015 3:01:27 | 41.67 | 39.27 | 826 | 1.07 | 0.18 | 45.2 |
| 4/30/2015 3:01:27 | 41.99 | 39.59 | 813 | 1.07 | 0.18 | 44.5 |
| 4/30/2015 3:01:28 | 42.32 | 39.92 | 818 | 1.07 | 0.18 | 44.7 |
| 4/30/2015 3:01:28 | 42.65 | 40.25 | 818 | 1.07 | 0.18 | 44.7 |
| 4/30/2015 3:01:28 | 42.98 | 40.58 | 821 | 1.05 | 0.18 | 44.9 |
| 4/30/2015 3:01:29 | 43.31 | 40.91 | 818 | 1.07 | 0.18 | 44.7 |
| 4/30/2015 3:01:29 | 43.64 | 41.24 | 818 | 1.04 | 0.18 | 44.7 |
| 4/30/2015 3:01:30 | 43.96 | 41.56 | 818 | 1.02 | 0.18 | 44.7 |
| 4/30/2015 3:01:30 | 44.29 | 41.89 | 821 | 1.05 | 0.18 | 44.9 |
| 4/30/2015 3:01:31 | 44.62 | 42.22 | 821 | 1.05 | 0.18 | 44.9 |
| 4/30/2015 3:01:31 | 44.95 | 42.55 | 818 | 1.05 | 0.18 | 44.7 |
| 4/30/2015 3:01:31 | 45.28 | 42.88 | 818 | 1.05 | 0.18 | 44.7 |
| 4/30/2015 3:01:32 | 45.60 | 43.20 | 815 | 1.05 | 0.18 | 44.6 |
| 4/30/2015 3:01:32 | 45.93 | 43.53 | 818 | 1.05 | 0.18 | 44.7 |
| 4/30/2015 3:01:33 | 46.26 | 43.86 | 812 | 1.05 | 0.18 | 44.4 |
| 4/30/2015 3:01:33 | 46.59 | 44.19 | 812 | 1.05 | 0.18 | 44.4 |
| 4/30/2015 3:01:33 | 46.92 | 44.52 | 812 | 1.09 | 0.18 | 44.4 |
| 4/30/2015 3:02:10 | 47.24 | 44.84 | 98 | 1.05 | 1.12 | 5.3 |
| 4/30/2015 3:02:11 | 47.57 | 45.17 | 185 | 0.95 | 0.78 | 10.1 |
| 4/30/2015 3:02:20 | 47.90 | 45.50 | 83 | 1.97 | 1.20 | 4.6 |
| 4/30/2015 3:02:24 | 48.23 | 45.83 | 77 | 1.05 | 0.94 | 4.2 |
| 4/30/2015 3:02:28 | 48.56 | 46.16 | 89 | 1.04 | 1.05 | 4.8 |
| 4/30/2015 3:02:36 | 48.88 | 46.48 | 38 | 1.05 | 0.90 | 2.1 |
| 4/30/2015 3:02:55 | 49.21 | 46.81 | 44 | 1.06 | 1.01 | 2.4 |
| 4/30/2015 3:03:03 | 49.54 | 47.14 | 43 | 1.04 | 0.82 | 2.4 |
| 4/30/2015 3:03:11 | 49.87 | 47.47 | 46 | 1.02 | 0.82 | 2.5 |
| 4/30/2015 3:03:14 | 50.01 | 47.61 | 49 | 1.11 | 1.14 | 2.7 |

## K123 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:58:34

**End Date:**
4/30/2015 3:04:28

**Operator Note:**
'2.4 2.5 a Auto Complete'

**Northing:**
362,145.00

**Easting:**
245,305.00

**Tide (feet):**
2.40



## Hole: K124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:01:09 | 32.48 | 30.08 | 1,183 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 3:01:09 | 32.81 | 30.41 | 1,183 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 3:01:09 | 33.14 | 30.74 | 1,187 | 0.05 | 0.37 | 64.9 |
| 4/30/2015 3:01:10 | 33.46 | 31.06 | 1,223 | 0.31 | 0.37 | 66.9 |
| 4/30/2015 3:01:10 | 33.79 | 31.39 | 1,223 | 0.31 | 0.37 | 66.9 |
| 4/30/2015 3:01:10 | 34.12 | 31.72 | 1,213 | 0.30 | 0.30 | 66.3 |
| 4/30/2015 3:01:11 | 34.45 | 32.05 | 1,213 | 0.30 | 0.30 | 66.3 |
| 4/30/2015 3:01:11 | 34.78 | 32.38 | 1,216 | 0.30 | 0.38 | 66.5 |
| 4/30/2015 3:01:11 | 35.11 | 32.71 | 1,216 | 0.30 | 0.38 | 66.5 |
| 4/30/2015 3:01:11 | 35.43 | 33.03 | 1,220 | 0.30 | 0.36 | 66.7 |
| 4/30/2015 3:01:12 | 35.76 | 33.36 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 3:01:12 | 36.09 | 33.69 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 3:01:12 | 36.42 | 34.02 | 1,206 | 0.30 | 0.38 | 66.0 |
| 4/30/2015 3:01:13 | 36.75 | 34.35 | 1,206 | 0.30 | 0.38 | 66.0 |
| 4/30/2015 3:01:13 | 37.07 | 34.67 | 1,206 | 0.31 | 0.36 | 66.0 |
| 4/30/2015 3:01:13 | 37.40 | 35.00 | 1,206 | 0.31 | 0.36 | 66.0 |
| 4/30/2015 3:01:13 | 37.73 | 35.33 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 3:01:14 | 38.06 | 35.66 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 3:01:14 | 38.39 | 35.99 | 1,195 | 0.30 | 0.37 | 65.3 |
| 4/30/2015 3:01:14 | 38.71 | 36.31 | 1,217 | 0.30 | 0.38 | 66.5 |
| 4/30/2015 3:01:15 | 39.04 | 36.64 | 1,217 | 0.30 | 0.38 | 66.5 |
| 4/30/2015 3:01:15 | 39.37 | 36.97 | 1,195 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 3:01:15 | 39.70 | 37.30 | 1,195 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 3:01:15 | 40.03 | 37.63 | 1,203 | 0.31 | 0.37 | 65.8 |
| 4/30/2015 3:01:16 | 40.35 | 37.95 | 1,203 | 0.31 | 0.37 | 65.8 |
| 4/30/2015 3:01:16 | 40.68 | 38.28 | 1,231 | 0.31 | 0.37 | 67.3 |
| 4/30/2015 3:01:17 | 41.01 | 38.61 | 1,215 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:17 | 41.34 | 38.94 | 1,215 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:17 | 41.67 | 39.27 | 1,215 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:18 | 41.99 | 39.59 | 1,215 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:18 | 42.32 | 39.92 | 1,214 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:18 | 42.65 | 40.25 | 1,214 | 0.30 | 0.37 | 66.4 |
| 4/30/2015 3:01:18 | 42.98 | 40.58 | 1,239 | 0.30 | 0.36 | 67.8 |
| 4/30/2015 3:01:19 | 43.31 | 40.91 | 1,239 | 0.30 | 0.36 | 67.8 |
| 4/30/2015 3:01:19 | 43.64 | 41.24 | 1,231 | 0.30 | 0.38 | 67.3 |
| 4/30/2015 3:01:19 | 43.96 | 41.56 | 1,228 | 0.30 | 0.37 | 67.2 |
| 4/30/2015 3:01:20 | 44.29 | 41.89 | 1,228 | 0.30 | 0.37 | 67.2 |
| 4/30/2015 3:01:20 | 44.62 | 42.22 | 1,228 | 0.29 | 0.38 | 67.2 |
| 4/30/2015 3:01:20 | 44.95 | 42.55 | 1,228 | 0.29 | 0.38 | 67.2 |
| 4/30/2015 3:01:20 | 45.28 | 42.88 | 1,235 | 0.31 | 0.37 | 67.6 |
| 4/30/2015 3:01:21 | 45.60 | 43.20 | 1,235 | 0.31 | 0.37 | 67.6 |
| 4/30/2015 3:01:21 | 45.93 | 43.53 | 1,235 | 0.30 | 0.37 | 67.5 |
| 4/30/2015 3:01:21 | 46.26 | 43.86 | 1,230 | 0.30 | 0.38 | 67.2 |
| 4/30/2015 3:01:22 | 46.59 | 44.19 | 1,230 | 0.30 | 0.38 | 67.2 |
| 4/30/2015 3:01:22 | 46.92 | 44.52 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 3:01:22 | 47.24 | 44.84 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 3:01:22 | 47.57 | 45.17 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 3:01:23 | 47.90 | 45.50 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 3:01:23 | 48.23 | 45.83 | 1,217 | 0.28 | 0.44 | 66.5 |
| 4/30/2015 3:01:30 | 48.56 | 46.16 | 88 | 3.24 | 0.47 | 4.8 |
| 4/30/2015 3:01:36 | 48.88 | 46.48 | 54 | 3.03 | 0.46 | 2.9 |
| 4/30/2015 3:01:45 | 49.21 | 46.81 | 40 | 2.93 | 0.46 | 2.2 |
| 4/30/2015 3:01:54 | 49.54 | 47.14 | 40 | 2.97 | 0.46 | 2.2 |
| 4/30/2015 3:01:59 | 49.79 | 47.39 | 55 | 3.43 | 0.46 | 3.0 |

## K124 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:59:42

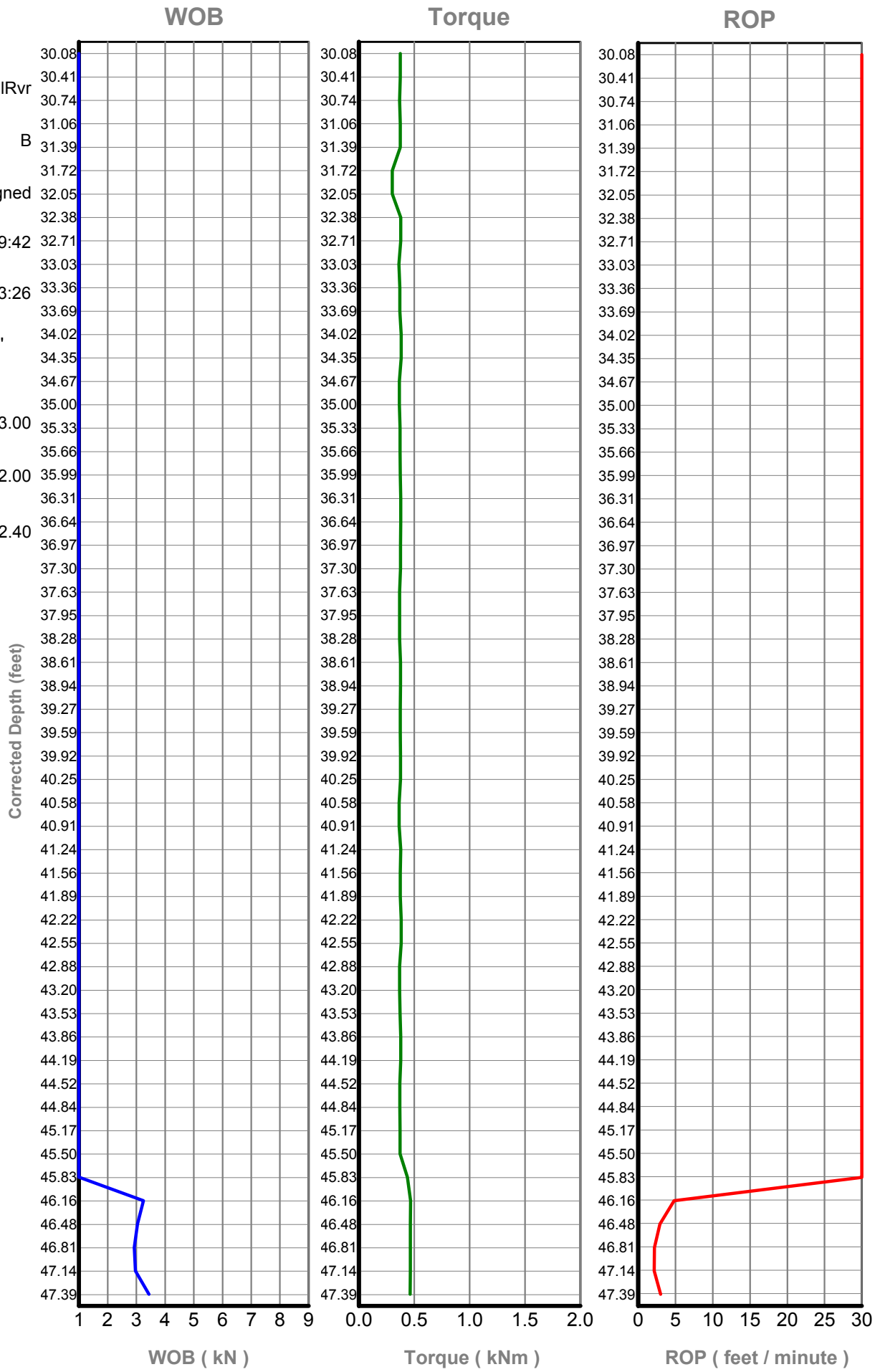
**End Date:**
4/30/2015 3:03:26

**Operator Note:**
'2.4 2.5b Auto Complete'

**Northing:**
362,193.00

**Easting:**
245,362.00

**Tide (feet):**
2.40



## Hole: K125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:59:04 | 32.48 | 30.08 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:59:05 | 32.81 | 30.41 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:05 | 33.14 | 30.74 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:05 | 33.46 | 31.06 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:59:06 | 33.79 | 31.39 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:06 | 34.12 | 31.72 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:06 | 34.45 | 32.05 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:59:07 | 34.78 | 32.38 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:59:07 | 35.11 | 32.71 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:07 | 35.43 | 33.03 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:59:08 | 35.76 | 33.36 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:59:08 | 36.09 | 33.69 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:59:08 | 36.42 | 34.02 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:59:08 | 36.75 | 34.35 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:59:09 | 37.07 | 34.67 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:59:09 | 37.40 | 35.00 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:59:09 | 37.73 | 35.33 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:10 | 38.06 | 35.66 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:59:10 | 38.39 | 35.99 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:59:10 | 38.71 | 36.31 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:11 | 39.04 | 36.64 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:11 | 39.37 | 36.97 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:59:11 | 39.70 | 37.30 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:12 | 40.03 | 37.63 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:12 | 40.35 | 37.95 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:59:12 | 40.68 | 38.28 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:59:12 | 41.01 | 38.61 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:59:13 | 41.34 | 38.94 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:59:14 | 41.67 | 39.27 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:59:13 | 41.99 | 39.59 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 2:59:14 | 42.32 | 39.92 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:59:15 | 42.65 | 40.25 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:59:15 | 42.98 | 40.58 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:59:15 | 43.31 | 40.91 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:59:15 | 43.64 | 41.24 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:59:16 | 43.96 | 41.56 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:16 | 44.29 | 41.89 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:16 | 44.62 | 42.22 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:59:17 | 44.95 | 42.55 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:59:17 | 45.28 | 42.88 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:59:17 | 45.60 | 43.20 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:59:18 | 45.93 | 43.53 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:59:24 | 46.26 | 43.86 | 24 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 2:59:31 | 46.59 | 44.19 | 67 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 2:59:37 | 46.92 | 44.52 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 2:59:43 | 47.24 | 44.84 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 2:59:47 | 47.57 | 45.17 | 90 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 2:59:55 | 47.90 | 45.50 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 3:00:06 | 48.23 | 45.83 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 3:00:16 | 48.52 | 46.12 | 26 | 1.14 | 0.29 | 1.4 |

## K125 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:58:10

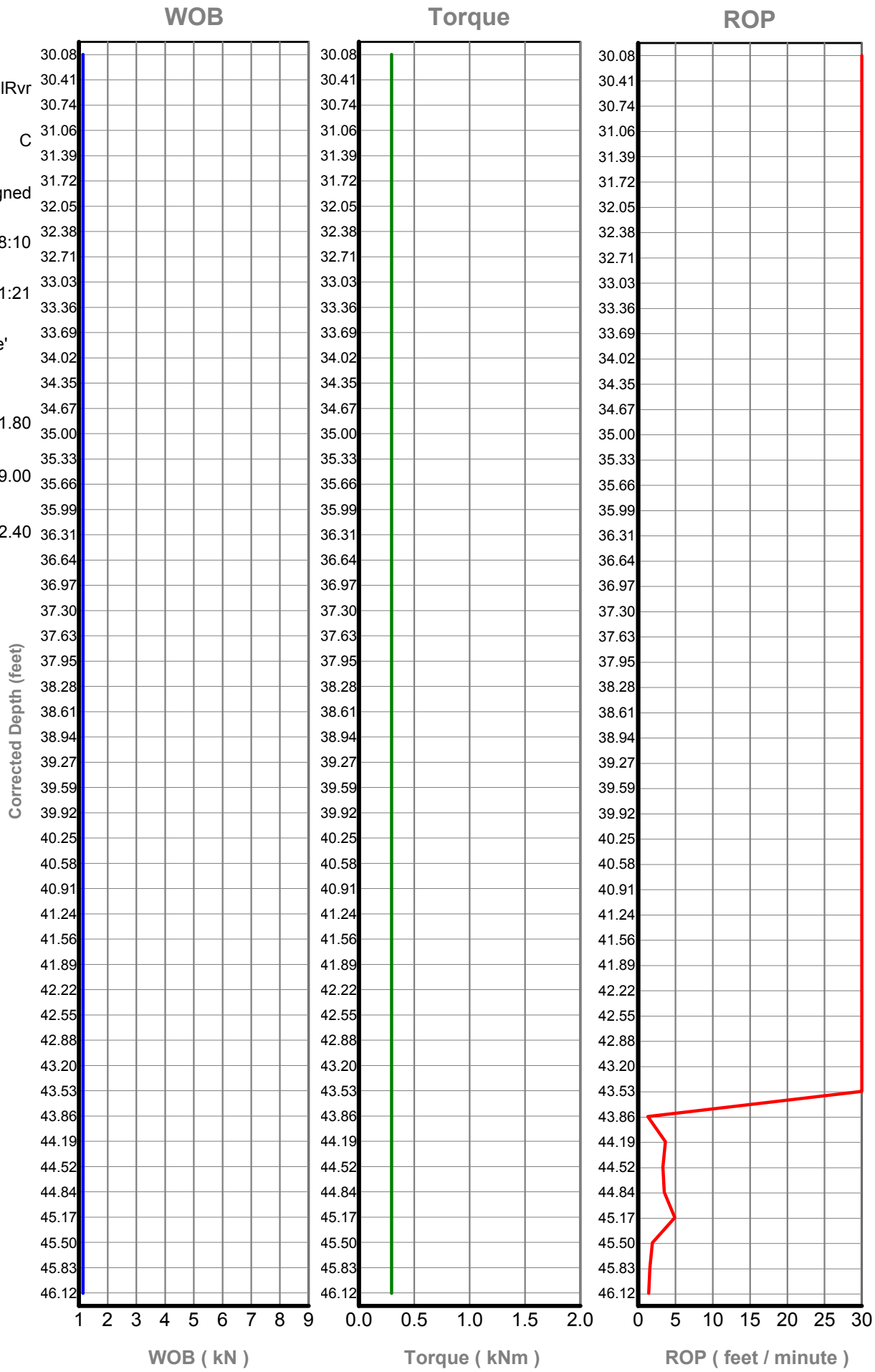
**End Date:**
4/30/2015 3:01:21

**Operator Note:**
'2.4 2.5 c Auto Complete'

**Northing:**
362,241.80

**Easting:**
245,419.00

**Tide (feet):**
2.40



## Hole: K126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:40:00 | 35.11 | 30.31 | 830 | 1.06 | 0.18 | 45.4 |
| 4/30/2015 0:40:01 | 35.43 | 30.63 | 841 | 1.05 | 0.18 | 46.0 |
| 4/30/2015 0:40:02 | 35.76 | 30.96 | 841 | 1.07 | 0.18 | 46.0 |
| 4/30/2015 0:40:02 | 36.09 | 31.29 | 833 | 1.06 | 0.18 | 45.6 |
| 4/30/2015 0:40:03 | 36.42 | 31.62 | 833 | 1.06 | 0.18 | 45.6 |
| 4/30/2015 0:40:03 | 36.75 | 31.95 | 833 | 1.05 | 0.18 | 45.6 |
| 4/30/2015 0:40:03 | 37.07 | 32.27 | 843 | 1.06 | 0.18 | 46.1 |
| 4/30/2015 0:40:04 | 37.40 | 32.60 | 846 | 1.05 | 0.17 | 46.2 |
| 4/30/2015 0:40:04 | 37.73 | 32.93 | 842 | 1.07 | 0.18 | 46.1 |
| 4/30/2015 0:40:05 | 38.06 | 33.26 | 842 | 1.07 | 0.18 | 46.1 |
| 4/30/2015 0:40:05 | 38.39 | 33.59 | 827 | 1.05 | 0.18 | 45.2 |
| 4/30/2015 0:40:05 | 38.71 | 33.91 | 852 | 1.05 | 0.18 | 46.6 |
| 4/30/2015 0:40:06 | 39.04 | 34.24 | 844 | 1.06 | 0.18 | 46.2 |
| 4/30/2015 0:40:06 | 39.37 | 34.57 | 836 | 1.05 | 0.18 | 45.7 |
| 4/30/2015 0:40:07 | 39.70 | 34.90 | 839 | 1.07 | 0.18 | 45.9 |
| 4/30/2015 0:40:07 | 40.03 | 35.23 | 839 | 1.07 | 0.18 | 45.9 |
| 4/30/2015 0:40:07 | 40.35 | 35.55 | 846 | 1.07 | 0.18 | 46.3 |
| 4/30/2015 0:40:08 | 40.68 | 35.88 | 841 | 1.07 | 0.17 | 46.0 |
| 4/30/2015 0:40:08 | 41.01 | 36.21 | 835 | 1.06 | 0.17 | 45.7 |
| 4/30/2015 0:40:09 | 41.34 | 36.54 | 835 | 1.06 | 0.17 | 45.7 |
| 4/30/2015 0:40:09 | 41.67 | 36.87 | 835 | 1.06 | 0.17 | 45.7 |
| 4/30/2015 0:40:09 | 41.99 | 37.19 | 839 | 1.05 | 0.17 | 45.9 |
| 4/30/2015 0:40:10 | 42.32 | 37.52 | 834 | 1.05 | 0.17 | 45.6 |
| 4/30/2015 0:40:10 | 42.65 | 37.85 | 834 | 1.05 | 0.18 | 45.6 |
| 4/30/2015 0:40:11 | 42.98 | 38.18 | 829 | 1.04 | 0.18 | 45.3 |
| 4/30/2015 0:40:11 | 43.31 | 38.51 | 831 | 1.05 | 0.18 | 45.5 |
| 4/30/2015 0:40:12 | 43.64 | 38.84 | 831 | 1.05 | 0.18 | 45.5 |
| 4/30/2015 0:40:12 | 43.96 | 39.16 | 827 | 1.06 | 0.17 | 45.2 |
| 4/30/2015 0:40:13 | 44.29 | 39.49 | 833 | 1.06 | 0.17 | 45.5 |
| 4/30/2015 0:40:13 | 44.62 | 39.82 | 818 | 1.12 | 0.17 | 44.8 |
| 4/30/2015 0:40:14 | 44.95 | 40.15 | 818 | 1.06 | 0.18 | 44.8 |
| 4/30/2015 0:40:14 | 45.28 | 40.48 | 827 | 1.05 | 0.17 | 45.2 |
| 4/30/2015 0:40:15 | 45.60 | 40.80 | 827 | 1.05 | 0.17 | 45.2 |
| 4/30/2015 0:40:15 | 45.93 | 41.13 | 827 | 1.06 | 0.17 | 45.2 |
| 4/30/2015 0:40:15 | 46.26 | 41.46 | 827 | 1.07 | 0.17 | 45.2 |
| 4/30/2015 0:40:16 | 46.59 | 41.79 | 822 | 1.05 | 0.17 | 44.9 |
| 4/30/2015 0:40:16 | 46.92 | 42.12 | 836 | 1.07 | 0.17 | 45.7 |
| 4/30/2015 0:40:17 | 47.24 | 42.44 | 827 | 1.06 | 0.17 | 45.2 |
| 4/30/2015 0:40:17 | 47.57 | 42.77 | 827 | 1.06 | 0.17 | 45.2 |
| 4/30/2015 0:40:17 | 47.90 | 43.10 | 822 | 1.07 | 0.17 | 44.9 |
| 4/30/2015 0:40:18 | 48.23 | 43.43 | 830 | 1.06 | 0.18 | 45.4 |
| 4/30/2015 0:40:18 | 48.56 | 43.76 | 824 | 1.07 | 0.17 | 45.1 |
| 4/30/2015 0:40:19 | 48.88 | 44.08 | 827 | 1.06 | 0.17 | 45.2 |
| 4/30/2015 0:40:19 | 49.21 | 44.41 | 827 | 1.05 | 0.17 | 45.2 |
| 4/30/2015 0:40:20 | 49.54 | 44.74 | 827 | 1.05 | 0.17 | 45.2 |
| 4/30/2015 0:40:20 | 49.87 | 45.07 | 830 | 1.06 | 0.17 | 45.4 |
| 4/30/2015 0:40:20 | 50.20 | 45.40 | 824 | 1.07 | 0.17 | 45.1 |
| 4/30/2015 0:40:21 | 50.53 | 45.73 | 827 | 1.05 | 0.17 | 45.2 |
| 4/30/2015 0:40:21 | 50.85 | 46.05 | 824 | 1.07 | 0.17 | 45.0 |
| 4/30/2015 0:40:32 | 51.18 | 46.38 | 0 | 1.81 | 1.54 | 0.0 |
| 4/30/2015 0:40:35 | 51.51 | 46.71 | 153 | 1.10 | 1.25 | 8.4 |
| 4/30/2015 0:40:37 | 51.84 | 47.04 | 162 | 1.14 | 1.20 | 8.8 |
| 4/30/2015 0:40:41 | 52.17 | 47.37 | 92 | 1.05 | 1.82 | 5.1 |
| 4/30/2015 0:40:43 | 52.49 | 47.69 | 122 | 1.09 | 1.10 | 6.7 |
| 4/30/2015 0:40:44 | 52.82 | 48.02 | 214 | 1.04 | 1.05 | 11.7 |
| 4/30/2015 0:40:46 | 53.15 | 48.35 | 360 | 1.13 | 1.29 | 19.7 |
| 4/30/2015 0:40:58 | 53.48 | 48.68 | 29 | 1.40 | 1.77 | 1.6 |
| 4/30/2015 0:40:59 | 53.81 | 49.01 | 205 | 1.12 | 1.00 | 11.2 |
| 4/30/2015 0:41:00 | 54.13 | 49.33 | 362 | 1.12 | 0.92 | 19.8 |
| 4/30/2015 0:41:01 | 54.46 | 49.66 | 397 | 0.62 | 1.16 | 21.7 |
| 4/30/2015 0:41:31 | 54.79 | 49.99 | 38 | 1.00 | 1.14 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:41:33 | 55.12 | 50.32 | 191 | 1.04 | 1.08 | 10.4 |
| 4/30/2015 | 0:41:34 | 55.45 | 50.65 | 307 | 1.05 | 0.91 | 16.8 |
| 4/30/2015 | 0:41:35 | 55.77 | 50.97 | 333 | 1.01 | 0.91 | 18.2 |
| 4/30/2015 | 0:41:45 | 56.10 | 51.30 | 35 | 0.98 | 0.90 | 1.9 |
| 4/30/2015 | 0:41:53 | 56.43 | 51.63 | 52 | 1.02 | 0.89 | 2.8 |
| 4/30/2015 | 0:41:58 | 56.76 | 51.96 | 86 | 1.02 | 0.85 | 4.7 |
| 4/30/2015 | 0:42:04 | 57.09 | 52.29 | 61 | 1.02 | 1.09 | 3.3 |
| 4/30/2015 | 0:42:09 | 57.41 | 52.61 | 70 | 1.04 | 0.94 | 3.8 |
| 4/30/2015 | 0:42:15 | 57.74 | 52.94 | 31 | 0.96 | 0.81 | 1.7 |
| 4/30/2015 | 0:42:24 | 58.07 | 53.27 | 52 | 1.01 | 0.92 | 2.8 |
| 4/30/2015 | 0:42:32 | 58.40 | 53.60 | 35 | 0.96 | 0.90 | 1.9 |
| 4/30/2015 | 0:42:35 | 58.73 | 53.93 | 128 | 0.98 | 1.17 | 7.0 |
| 4/30/2015 | 0:42:49 | 59.06 | 54.26 | 35 | 1.01 | 0.83 | 1.9 |
| 4/30/2015 | 0:42:58 | 59.38 | 54.58 | 29 | 1.00 | 1.14 | 1.6 |
| 4/30/2015 | 0:43:09 | 59.71 | 54.91 | 34 | 1.02 | 0.77 | 1.9 |
| 4/30/2015 | 0:43:13 | 59.88 | 55.08 | 50 | 1.07 | 0.96 | 2.7 |

## K126 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:37:53

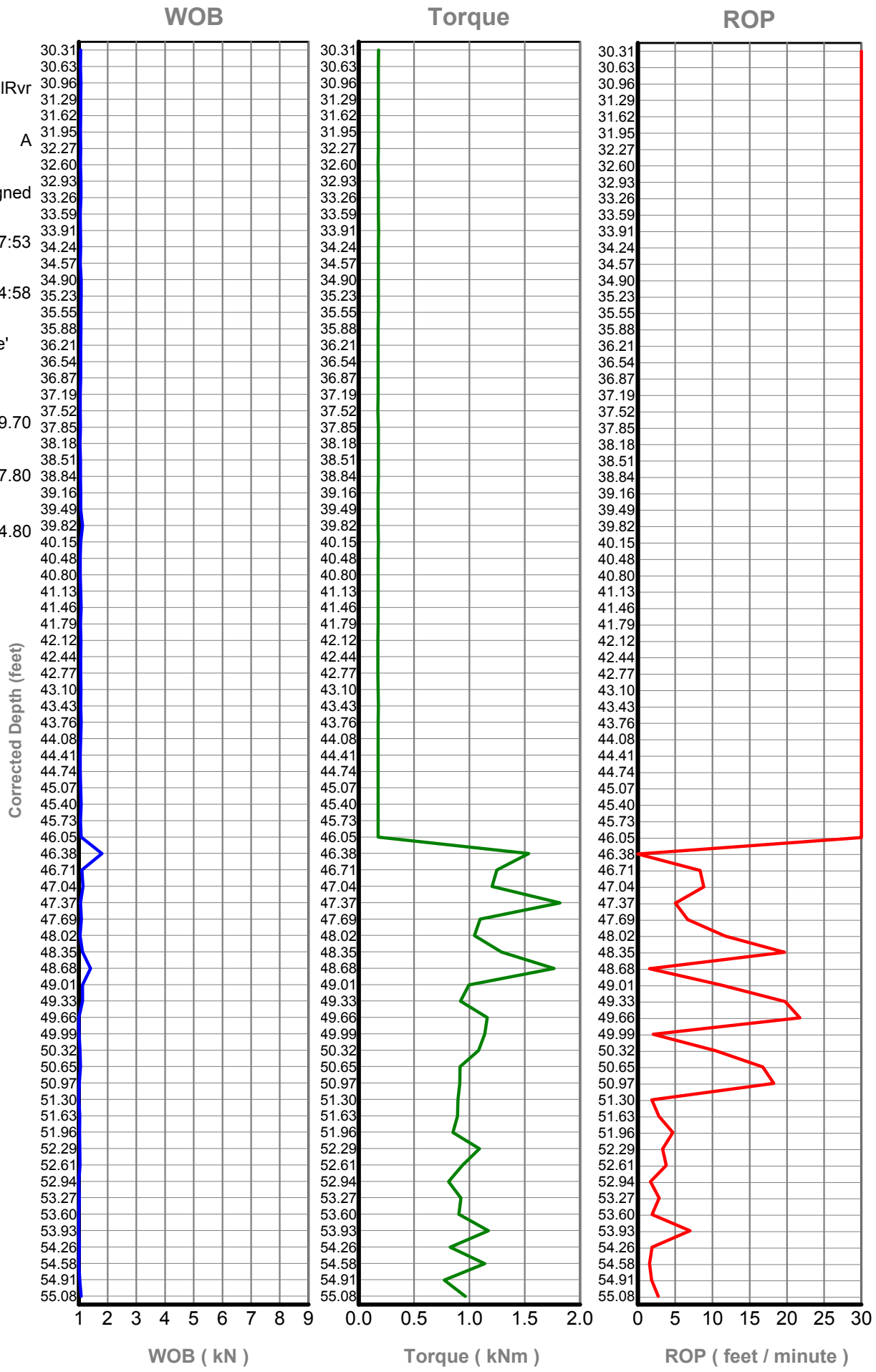
**End Date:**
4/30/2015 0:44:58

**Operator Note:**
'4.8 4.9 b Auto Complete'

**Northing:**
362,289.70

**Easting:**
245,487.80

**Tide (feet):**
4.80



## Hole: K127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:39:26 | 35.11 | 30.31 | 1,189 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 0:39:26 | 35.43 | 30.63 | 1,190 | 0.31 | 0.36 | 65.1 |
| 4/30/2015 0:39:27 | 35.76 | 30.96 | 1,190 | 0.31 | 0.36 | 65.1 |
| 4/30/2015 0:39:27 | 36.09 | 31.29 | 1,196 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 0:39:27 | 36.42 | 31.62 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 0:39:28 | 36.75 | 31.95 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 0:39:28 | 37.07 | 32.27 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 0:39:29 | 37.40 | 32.60 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 0:39:29 | 37.73 | 32.93 | 1,178 | 0.30 | 0.37 | 64.4 |
| 4/30/2015 0:39:29 | 38.06 | 33.26 | 1,178 | 0.30 | 0.37 | 64.4 |
| 4/30/2015 0:39:29 | 38.39 | 33.59 | 1,175 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 0:39:30 | 38.71 | 33.91 | 1,143 | 0.29 | 0.37 | 62.5 |
| 4/30/2015 0:39:30 | 39.04 | 34.24 | 1,143 | 0.29 | 0.37 | 62.5 |
| 4/30/2015 0:39:30 | 39.37 | 34.57 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:39:31 | 39.70 | 34.90 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:39:31 | 40.03 | 35.23 | 1,179 | 0.30 | 0.36 | 64.5 |
| 4/30/2015 0:39:31 | 40.35 | 35.55 | 1,179 | 0.30 | 0.36 | 64.5 |
| 4/30/2015 0:39:31 | 40.68 | 35.88 | 1,179 | 0.31 | 0.36 | 64.5 |
| 4/30/2015 0:39:32 | 41.01 | 36.21 | 1,184 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 0:39:32 | 41.34 | 36.54 | 1,184 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 0:39:32 | 41.67 | 36.87 | 1,183 | 0.29 | 0.38 | 64.7 |
| 4/30/2015 0:39:33 | 41.99 | 37.19 | 1,183 | 0.29 | 0.38 | 64.7 |
| 4/30/2015 0:39:33 | 42.32 | 37.52 | 1,202 | 0.29 | 0.36 | 65.8 |
| 4/30/2015 0:39:33 | 42.65 | 37.85 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 0:39:34 | 42.98 | 38.18 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 0:39:34 | 43.31 | 38.51 | 1,170 | 0.30 | 0.36 | 64.0 |
| 4/30/2015 0:39:34 | 43.64 | 38.84 | 1,170 | 0.30 | 0.36 | 64.0 |
| 4/30/2015 0:39:34 | 43.96 | 39.16 | 1,170 | 0.29 | 0.36 | 64.0 |
| 4/30/2015 0:39:35 | 44.29 | 39.49 | 1,170 | 0.29 | 0.36 | 64.0 |
| 4/30/2015 0:39:35 | 44.62 | 39.82 | 1,171 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 0:39:35 | 44.95 | 40.15 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:39:36 | 45.28 | 40.48 | 1,159 | 0.30 | 0.36 | 63.4 |
| 4/30/2015 0:39:36 | 45.60 | 40.80 | 1,159 | 0.29 | 0.37 | 63.4 |
| 4/30/2015 0:39:37 | 45.93 | 41.13 | 1,159 | 0.29 | 0.37 | 63.4 |
| 4/30/2015 0:39:36 | 46.26 | 41.46 | 1,158 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 0:39:37 | 46.59 | 41.79 | 1,158 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 0:39:37 | 46.92 | 42.12 | 1,173 | 0.07 | 0.37 | 64.1 |
| 4/30/2015 0:39:38 | 47.24 | 42.44 | 1,210 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 0:39:38 | 47.57 | 42.77 | 1,210 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 0:39:38 | 47.90 | 43.10 | 1,167 | 0.29 | 0.36 | 63.8 |
| 4/30/2015 0:39:38 | 48.23 | 43.43 | 1,167 | 0.29 | 0.36 | 63.8 |
| 4/30/2015 0:39:39 | 48.56 | 43.76 | 1,167 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 0:39:39 | 48.88 | 44.08 | 1,167 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 0:39:39 | 49.21 | 44.41 | 1,203 | 0.30 | 0.37 | 65.8 |
| 4/30/2015 0:39:40 | 49.54 | 44.74 | 1,184 | 0.29 | 0.36 | 64.8 |
| 4/30/2015 0:39:40 | 49.87 | 45.07 | 1,184 | 0.29 | 0.36 | 64.8 |
| 4/30/2015 0:39:40 | 50.20 | 45.40 | 1,182 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 0:39:41 | 50.53 | 45.73 | 1,182 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 0:39:44 | 50.85 | 46.05 | 46 | 2.50 | 0.43 | 2.5 |
| 4/30/2015 0:39:50 | 51.18 | 46.38 | 20 | 4.32 | 0.44 | 1.1 |
| 4/30/2015 0:39:51 | 51.51 | 46.71 | 172 | 3.94 | 0.43 | 9.4 |
| 4/30/2015 0:39:52 | 51.84 | 47.04 | 326 | 4.06 | 0.45 | 17.8 |
| 4/30/2015 0:39:53 | 52.17 | 47.37 | 380 | 3.67 | 0.43 | 20.8 |
| 4/30/2015 0:39:53 | 52.49 | 47.69 | 391 | 3.82 | 0.41 | 21.4 |
| 4/30/2015 0:39:57 | 52.82 | 48.02 | 37 | 2.97 | 0.44 | 2.0 |
| 4/30/2015 0:40:00 | 53.15 | 48.35 | 232 | 3.79 | 0.46 | 12.7 |
| 4/30/2015 0:40:01 | 53.48 | 48.68 | 169 | 3.35 | 0.42 | 9.2 |
| 4/30/2015 0:40:02 | 53.81 | 49.01 | 243 | 3.56 | 0.43 | 13.3 |
| 4/30/2015 0:40:03 | 54.13 | 49.33 | 394 | 2.85 | 0.41 | 21.5 |
| 4/30/2015 0:40:03 | 54.46 | 49.66 | 497 | 2.59 | 0.43 | 27.2 |
| 4/30/2015 0:40:04 | 54.79 | 49.99 | 468 | 3.60 | 0.44 | 25.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:40:08 | 55.12 | 50.32 | 85 | 3.10 | 0.46 | 4.7 |
| 4/30/2015 | 0:40:14 | 55.45 | 50.65 | 62 | 3.71 | 0.47 | 3.4 |
| 4/30/2015 | 0:40:23 | 55.77 | 50.97 | 35 | 2.85 | 0.46 | 1.9 |
| 4/30/2015 | 0:40:34 | 56.10 | 51.30 | 34 | 2.80 | 0.47 | 1.9 |
| 4/30/2015 | 0:40:37 | 56.19 | 51.39 | 35 | 3.48 | 0.47 | 1.9 |

## K127 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:37:56

**End Date:**
4/30/2015 0:42:14

**Operator Note:**
'4.8 4.9b Auto Complete'

**Northing:**
362,336.70

**Easting:**
245,546.20

**Tide (feet):**
4.80



## Hole: K128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:37:57 | 35.11 | 30.31 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:37:57 | 35.43 | 30.63 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:37:58 | 35.76 | 30.96 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:37:58 | 36.09 | 31.29 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 0:37:58 | 36.42 | 31.62 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:37:59 | 36.75 | 31.95 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:37:59 | 37.07 | 32.27 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:37:59 | 37.40 | 32.60 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:37:59 | 37.73 | 32.93 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:38:00 | 38.06 | 33.26 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:38:00 | 38.39 | 33.59 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:38:00 | 38.71 | 33.91 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:38:01 | 39.04 | 34.24 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:38:01 | 39.37 | 34.57 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:38:01 | 39.70 | 34.90 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:38:02 | 40.03 | 35.23 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:38:02 | 40.35 | 35.55 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:02 | 40.68 | 35.88 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:38:03 | 41.01 | 36.21 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:38:03 | 41.34 | 36.54 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:03 | 41.67 | 36.87 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:03 | 41.99 | 37.19 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:38:04 | 42.32 | 37.52 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:04 | 42.65 | 37.85 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:04 | 42.98 | 38.18 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:38:05 | 43.31 | 38.51 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 0:38:06 | 43.64 | 38.84 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 0:38:06 | 43.96 | 39.16 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 0:38:06 | 44.29 | 39.49 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 0:38:06 | 44.62 | 39.82 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 0:38:07 | 44.95 | 40.15 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:38:07 | 45.28 | 40.48 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:38:07 | 45.60 | 40.80 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 0:38:08 | 45.93 | 41.13 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 0:38:08 | 46.26 | 41.46 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:38:08 | 46.59 | 41.79 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 0:38:09 | 46.92 | 42.12 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 0:38:09 | 47.24 | 42.44 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:38:09 | 47.57 | 42.77 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:38:10 | 47.90 | 43.10 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:38:10 | 48.23 | 43.43 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:38:10 | 48.56 | 43.76 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:38:10 | 48.88 | 44.08 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:38:11 | 49.21 | 44.41 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:38:11 | 49.54 | 44.74 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:38:11 | 49.87 | 45.07 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:38:12 | 50.20 | 45.40 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:38:12 | 50.53 | 45.73 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:38:19 | 50.85 | 46.05 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 0:38:20 | 51.18 | 46.38 | 178 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 0:38:24 | 51.51 | 46.71 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 0:38:25 | 51.84 | 47.04 | 56 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 0:38:35 | 52.17 | 47.37 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 0:38:36 | 52.49 | 47.69 | 117 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 0:38:39 | 52.82 | 48.02 | 106 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 0:38:45 | 53.15 | 48.35 | 56 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 0:38:52 | 53.48 | 48.68 | 54 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 0:39:00 | 53.81 | 49.01 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 0:39:06 | 54.02 | 49.22 | 38 | 1.14 | 0.29 | 2.1 |

## K128 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:37:01

**End Date:**
4/30/2015 0:40:19

**Operator Note:**
'4.8 4.9 c Auto Complete'

**Northing:**
362,383.70

**Easting:**
245,604.60

**Tide (feet):**
4.80



## Hole: K129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:19:36 | 36.42 | 30.32 | 818 | 1.04 | 0.18 | 44.7 |
| 4/29/2015 23:19:36 | 36.75 | 30.65 | 818 | 1.04 | 0.18 | 44.7 |
| 4/29/2015 23:19:37 | 37.07 | 30.97 | 815 | 1.07 | 0.18 | 44.6 |
| 4/29/2015 23:19:37 | 37.40 | 31.30 | 811 | 1.06 | 0.19 | 44.3 |
| 4/29/2015 23:19:38 | 37.73 | 31.63 | 821 | 1.05 | 0.18 | 44.9 |
| 4/29/2015 23:19:38 | 38.06 | 31.96 | 821 | 1.05 | 0.18 | 44.9 |
| 4/29/2015 23:19:38 | 38.39 | 32.29 | 821 | 1.06 | 0.18 | 44.9 |
| 4/29/2015 23:19:39 | 38.71 | 32.61 | 818 | 1.06 | 0.18 | 44.7 |
| 4/29/2015 23:19:39 | 39.04 | 32.94 | 821 | 1.04 | 0.18 | 44.9 |
| 4/29/2015 23:19:40 | 39.37 | 33.27 | 824 | 1.29 | 0.18 | 45.1 |
| 4/29/2015 23:19:40 | 39.70 | 33.60 | 821 | 1.05 | 0.18 | 44.9 |
| 4/29/2015 23:19:41 | 40.03 | 33.93 | 821 | 1.05 | 0.18 | 44.9 |
| 4/29/2015 23:19:41 | 40.35 | 34.25 | 818 | 1.05 | 0.18 | 44.7 |
| 4/29/2015 23:19:41 | 40.68 | 34.58 | 813 | 1.09 | 0.18 | 44.5 |
| 4/29/2015 23:19:42 | 41.01 | 34.91 | 818 | 1.05 | 0.18 | 44.7 |
| 4/29/2015 23:19:43 | 41.34 | 35.24 | 798 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 23:19:43 | 41.67 | 35.57 | 798 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 23:19:44 | 41.99 | 35.89 | 799 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 23:19:44 | 42.32 | 36.22 | 799 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 23:19:44 | 42.65 | 36.55 | 810 | 1.05 | 0.18 | 44.3 |
| 4/29/2015 23:19:45 | 42.98 | 36.88 | 812 | 1.03 | 0.18 | 44.4 |
| 4/29/2015 23:19:45 | 43.31 | 37.21 | 804 | 1.05 | 0.18 | 44.0 |
| 4/29/2015 23:19:46 | 43.64 | 37.54 | 826 | 1.06 | 0.18 | 45.2 |
| 4/29/2015 23:19:46 | 43.96 | 37.86 | 820 | 1.07 | 0.18 | 44.8 |
| 4/29/2015 23:19:47 | 44.29 | 38.19 | 820 | 1.07 | 0.18 | 44.8 |
| 4/29/2015 23:19:47 | 44.62 | 38.52 | 809 | 1.05 | 0.18 | 44.3 |
| 4/29/2015 23:19:47 | 44.95 | 38.85 | 812 | 1.05 | 0.18 | 44.4 |
| 4/29/2015 23:19:48 | 45.28 | 39.18 | 812 | 1.03 | 0.18 | 44.4 |
| 4/29/2015 23:19:48 | 45.60 | 39.50 | 808 | 1.07 | 0.18 | 44.2 |
| 4/29/2015 23:19:49 | 45.93 | 39.83 | 806 | 1.06 | 0.18 | 44.1 |
| 4/29/2015 23:19:49 | 46.26 | 40.16 | 808 | 1.06 | 0.18 | 44.2 |
| 4/29/2015 23:19:50 | 46.59 | 40.49 | 808 | 1.06 | 0.18 | 44.2 |
| 4/29/2015 23:19:50 | 46.92 | 40.82 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 23:19:50 | 47.24 | 41.14 | 805 | 1.05 | 0.18 | 44.0 |
| 4/29/2015 23:19:51 | 47.57 | 41.47 | 806 | 1.05 | 0.18 | 44.1 |
| 4/29/2015 23:19:51 | 47.90 | 41.80 | 802 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 23:19:52 | 48.23 | 42.13 | 797 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 23:19:53 | 48.56 | 42.46 | 811 | 1.04 | 0.21 | 44.3 |
| 4/29/2015 23:19:53 | 48.88 | 42.78 | 811 | 1.04 | 0.21 | 44.3 |
| 4/29/2015 23:19:53 | 49.21 | 43.11 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 23:19:54 | 49.54 | 43.44 | 801 | 1.06 | 0.18 | 43.8 |
| 4/29/2015 23:19:54 | 49.87 | 43.77 | 801 | 1.06 | 0.18 | 43.8 |
| 4/29/2015 23:19:55 | 50.20 | 44.10 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 23:19:55 | 50.53 | 44.43 | 798 | 1.04 | 0.18 | 43.6 |
| 4/29/2015 23:19:56 | 50.85 | 44.75 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 23:19:56 | 51.18 | 45.08 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 23:19:56 | 51.51 | 45.41 | 778 | 1.08 | 0.18 | 42.5 |
| 4/29/2015 23:20:07 | 51.84 | 45.74 | 77 | 1.13 | 1.35 | 4.2 |
| 4/29/2015 23:20:14 | 52.17 | 46.07 | 69 | 1.06 | 1.25 | 3.8 |
| 4/29/2015 23:20:17 | 52.49 | 46.39 | 113 | 1.11 | 1.18 | 6.2 |
| 4/29/2015 23:20:20 | 52.82 | 46.72 | 87 | 1.05 | 1.03 | 4.7 |
| 4/29/2015 23:20:26 | 53.15 | 47.05 | 63 | 0.98 | 1.03 | 3.5 |
| 4/29/2015 23:20:32 | 53.48 | 47.38 | 52 | 1.01 | 0.95 | 2.8 |
| 4/29/2015 23:20:40 | 53.81 | 47.71 | 46 | 1.01 | 0.86 | 2.5 |
| 4/29/2015 23:20:47 | 54.13 | 48.03 | 60 | 1.01 | 1.16 | 3.3 |

## K129 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:17:28

**End Date:**
4/29/2015 23:22:23

**Operator Note:**
'6.1 6.1 b Auto Complete'

**Northing:**
362,432.56

**Easting:**
245,659.13

**Tide (feet):**
6.10



## Hole: K13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:43:55 | 30.84 | 30.14 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:43:55 | 31.17 | 30.47 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:43:55 | 31.50 | 30.80 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:43:56 | 31.82 | 31.12 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:43:56 | 32.15 | 31.45 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:43:56 | 32.48 | 31.78 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 5:43:57 | 32.81 | 32.11 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 5:43:59 | 33.14 | 32.44 | 67 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 5:44:18 | 33.46 | 32.76 | 104 | 1.14 | 0.29 | 5.7 |
| 4/30/2015 5:44:18 | 33.79 | 33.09 | 225 | 1.14 | 0.29 | 12.3 |
| 4/30/2015 5:44:19 | 34.12 | 33.42 | 384 | 1.14 | 0.29 | 21.0 |
| 4/30/2015 5:44:20 | 34.45 | 33.75 | 432 | 1.14 | 0.29 | 23.6 |
| 4/30/2015 5:44:29 | 34.78 | 34.08 | 95 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 5:44:30 | 35.11 | 34.41 | 218 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 5:44:31 | 35.43 | 34.73 | 367 | 1.14 | 0.29 | 20.0 |
| 4/30/2015 5:44:31 | 35.76 | 35.06 | 406 | 1.14 | 0.29 | 22.2 |
| 4/30/2015 5:44:49 | 36.09 | 35.39 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 5:44:51 | 36.42 | 35.72 | 140 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 5:44:53 | 36.75 | 36.05 | 221 | 1.14 | 0.29 | 12.1 |
| 4/30/2015 5:44:59 | 37.07 | 36.37 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 5:45:22 | 37.40 | 36.70 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 5:46:17 | 37.73 | 37.03 | 37 | 1.14 | 0.29 | 2.0 |
| 4/30/2015 5:46:27 | 38.06 | 37.36 | 31 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 5:46:38 | 38.39 | 37.69 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 5:46:48 | 38.71 | 38.01 | 43 | 1.14 | 0.29 | 2.3 |
| 4/30/2015 5:47:28 | 39.04 | 38.34 | 33 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 5:47:39 | 39.37 | 38.67 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 5:47:48 | 39.70 | 39.00 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 5:47:48 | 39.70 | 39.00 | 41 | 1.14 | 0.29 | 2.2 |

## K13 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:42:49

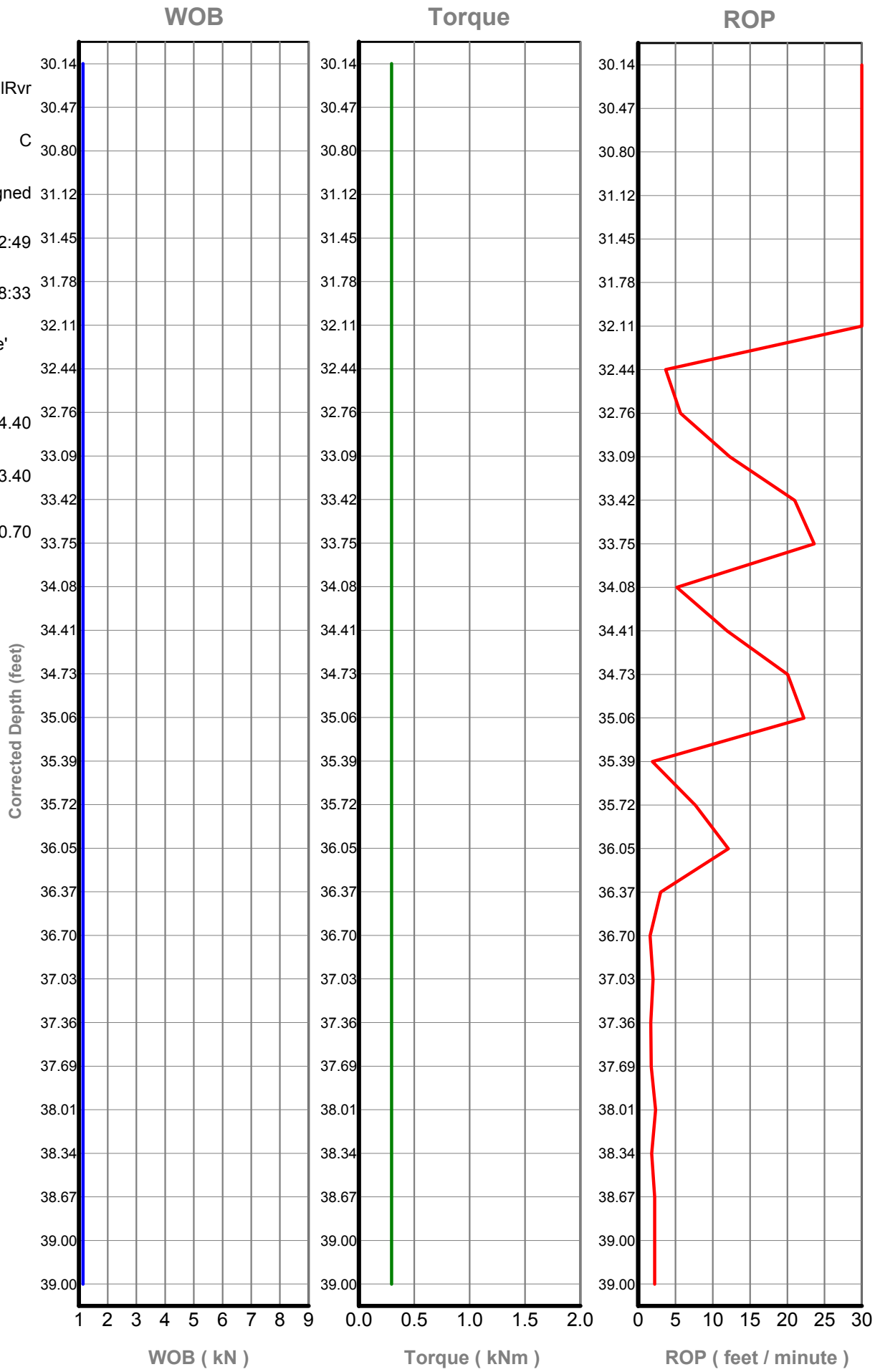
**End Date:**
4/30/2015 5:48:33

**Operator Note:**
'0.7 0.7 c Auto Complete'

**Northing:**
362,404.40

**Easting:**
245,013.40

**Tide (feet):**
0.70



## Hole: K130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:20:12 | 36.42 | 30.32 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/29/2015 23:20:12 | 36.75 | 30.65 | 1,128 | 0.31 | 0.38 | 61.7 |
| 4/29/2015 23:20:12 | 37.07 | 30.97 | 1,128 | 0.31 | 0.38 | 61.7 |
| 4/29/2015 23:20:12 | 37.40 | 31.30 | 1,140 | 0.31 | 0.38 | 62.3 |
| 4/29/2015 23:20:13 | 37.73 | 31.63 | 1,141 | 0.31 | 0.37 | 62.4 |
| 4/29/2015 23:20:13 | 38.06 | 31.96 | 1,141 | 0.31 | 0.37 | 62.4 |
| 4/29/2015 23:20:13 | 38.39 | 32.29 | 1,156 | 0.32 | 0.38 | 63.2 |
| 4/29/2015 23:20:14 | 38.71 | 32.61 | 1,156 | 0.32 | 0.38 | 63.2 |
| 4/29/2015 23:20:14 | 39.04 | 32.94 | 1,151 | 0.31 | 0.38 | 62.9 |
| 4/29/2015 23:20:14 | 39.37 | 33.27 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/29/2015 23:20:15 | 39.70 | 33.60 | 1,162 | 0.31 | 0.38 | 63.5 |
| 4/29/2015 23:20:15 | 40.03 | 33.93 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/29/2015 23:20:15 | 40.35 | 34.25 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/29/2015 23:20:15 | 40.68 | 34.58 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/29/2015 23:20:16 | 41.01 | 34.91 | 1,153 | 0.31 | 0.38 | 63.1 |
| 4/29/2015 23:20:16 | 41.34 | 35.24 | 1,153 | 0.31 | 0.38 | 63.1 |
| 4/29/2015 23:20:16 | 41.67 | 35.57 | 1,150 | 0.31 | 0.38 | 62.9 |
| 4/29/2015 23:20:17 | 41.99 | 35.89 | 1,150 | 0.31 | 0.38 | 62.9 |
| 4/29/2015 23:20:17 | 42.32 | 36.22 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/29/2015 23:20:17 | 42.65 | 36.55 | 1,138 | 0.32 | 0.39 | 62.2 |
| 4/29/2015 23:20:18 | 42.98 | 36.88 | 1,138 | 0.32 | 0.39 | 62.2 |
| 4/29/2015 23:20:18 | 43.31 | 37.21 | 1,138 | 0.31 | 0.37 | 62.2 |
| 4/29/2015 23:20:18 | 43.64 | 37.54 | 1,138 | 0.31 | 0.37 | 62.2 |
| 4/29/2015 23:20:18 | 43.96 | 37.86 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/29/2015 23:20:19 | 44.29 | 38.19 | 1,150 | 0.31 | 0.38 | 62.9 |
| 4/29/2015 23:20:20 | 44.62 | 38.52 | 1,150 | 0.31 | 0.38 | 62.9 |
| 4/29/2015 23:20:20 | 44.95 | 38.85 | 1,147 | 0.31 | 0.38 | 62.7 |
| 4/29/2015 23:20:20 | 45.28 | 39.18 | 1,147 | 0.31 | 0.38 | 62.7 |
| 4/29/2015 23:20:20 | 45.60 | 39.50 | 1,143 | 0.32 | 0.38 | 62.5 |
| 4/29/2015 23:20:21 | 45.93 | 39.83 | 1,163 | 0.31 | 0.38 | 63.6 |
| 4/29/2015 23:20:21 | 46.26 | 40.16 | 1,163 | 0.31 | 0.38 | 63.6 |
| 4/29/2015 23:20:21 | 46.59 | 40.49 | 1,153 | 0.32 | 0.38 | 63.1 |
| 4/29/2015 23:20:22 | 46.92 | 40.82 | 1,153 | 0.32 | 0.38 | 63.1 |
| 4/29/2015 23:20:22 | 47.24 | 41.14 | 1,146 | 0.33 | 0.37 | 62.7 |
| 4/29/2015 23:20:22 | 47.57 | 41.47 | 1,146 | 0.33 | 0.37 | 62.7 |
| 4/29/2015 23:20:22 | 47.90 | 41.80 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/29/2015 23:20:23 | 48.23 | 42.13 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/29/2015 23:20:23 | 48.56 | 42.46 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/29/2015 23:20:23 | 48.88 | 42.78 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/29/2015 23:20:24 | 49.21 | 43.11 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/29/2015 23:20:24 | 49.54 | 43.44 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/29/2015 23:20:24 | 49.87 | 43.77 | 1,148 | 0.31 | 0.37 | 62.8 |
| 4/29/2015 23:20:25 | 50.20 | 44.10 | 1,148 | 0.31 | 0.37 | 62.8 |
| 4/29/2015 23:20:25 | 50.53 | 44.43 | 1,145 | 0.30 | 0.40 | 62.6 |
| 4/29/2015 23:20:30 | 50.85 | 44.75 | 0 | 4.39 | 0.48 | 0.0 |
| 4/29/2015 23:20:36 | 51.18 | 45.08 | 95 | 3.45 | 0.45 | 5.2 |
| 4/29/2015 23:20:37 | 51.51 | 45.41 | 234 | 3.77 | 0.43 | 12.8 |
| 4/29/2015 23:20:38 | 51.84 | 45.74 | 334 | 6.58 | 0.44 | 18.3 |
| 4/29/2015 23:20:49 | 52.17 | 46.07 | 0 | 4.21 | 0.44 | 0.0 |
| 4/29/2015 23:20:50 | 52.49 | 46.39 | 160 | 4.75 | 0.44 | 8.7 |
| 4/29/2015 23:20:51 | 52.82 | 46.72 | 244 | 3.58 | 0.43 | 13.3 |
| 4/29/2015 23:20:51 | 53.15 | 47.05 | 244 | 2.50 | 0.42 | 13.3 |
| 4/29/2015 23:21:13 | 53.48 | 47.38 | 94 | 4.13 | 0.47 | 5.1 |
| 4/29/2015 23:21:20 | 53.81 | 47.71 | 28 | 2.65 | 0.46 | 1.5 |
| 4/29/2015 23:21:23 | 54.13 | 48.03 | 132 | 3.48 | 0.47 | 7.2 |
| 4/29/2015 23:21:25 | 54.46 | 48.36 | 150 | 3.45 | 0.46 | 8.2 |
| 4/29/2015 23:21:27 | 54.79 | 48.69 | 152 | 3.64 | 0.47 | 8.3 |
| 4/29/2015 23:21:30 | 55.12 | 49.02 | 139 | 3.41 | 0.47 | 7.6 |
| 4/29/2015 23:21:34 | 55.45 | 49.35 | 82 | 3.68 | 0.46 | 4.5 |
| 4/29/2015 23:21:37 | 55.77 | 49.67 | 121 | 3.92 | 0.46 | 6.6 |
| 4/29/2015 23:21:40 | 56.10 | 50.00 | 107 | 3.62 | 0.46 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:21:45 | 56.43 | 50.33 | 74 | 3.67 | 0.47 | 4.1 |
| 4/29/2015 | 23:21:49 | 56.76 | 50.66 | 84 | 3.37 | 0.47 | 4.6 |
| 4/29/2015 | 23:21:54 | 57.09 | 50.99 | 84 | 3.64 | 0.46 | 4.6 |
| 4/29/2015 | 23:21:57 | 57.41 | 51.31 | 89 | 3.44 | 0.46 | 4.9 |
| 4/29/2015 | 23:22:01 | 57.74 | 51.64 | 96 | 3.94 | 0.47 | 5.3 |
| 4/29/2015 | 23:22:05 | 58.07 | 51.97 | 98 | 3.51 | 0.47 | 5.4 |
| 4/29/2015 | 23:22:08 | 58.40 | 52.30 | 93 | 3.52 | 0.46 | 5.1 |
| 4/29/2015 | 23:22:13 | 58.73 | 52.63 | 62 | 3.13 | 0.47 | 3.4 |
| 4/29/2015 | 23:22:21 | 59.06 | 52.96 | 49 | 2.82 | 0.47 | 2.7 |
| 4/29/2015 | 23:22:25 | 59.38 | 53.28 | 104 | 3.62 | 0.47 | 5.7 |
| 4/29/2015 | 23:22:28 | 59.71 | 53.61 | 103 | 3.20 | 0.47 | 5.6 |
| 4/29/2015 | 23:22:31 | 60.04 | 53.94 | 116 | 3.39 | 0.47 | 6.3 |
| 4/29/2015 | 23:22:35 | 60.37 | 54.27 | 104 | 3.58 | 0.47 | 5.7 |
| 4/29/2015 | 23:22:38 | 60.70 | 54.60 | 98 | 3.38 | 0.46 | 5.4 |
| 4/29/2015 | 23:22:42 | 61.02 | 54.92 | 98 | 3.40 | 0.46 | 5.4 |
| 4/29/2015 | 23:22:42 | 61.11 | 55.01 | 101 | 3.83 | 0.47 | 5.5 |

## K130 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:18:50

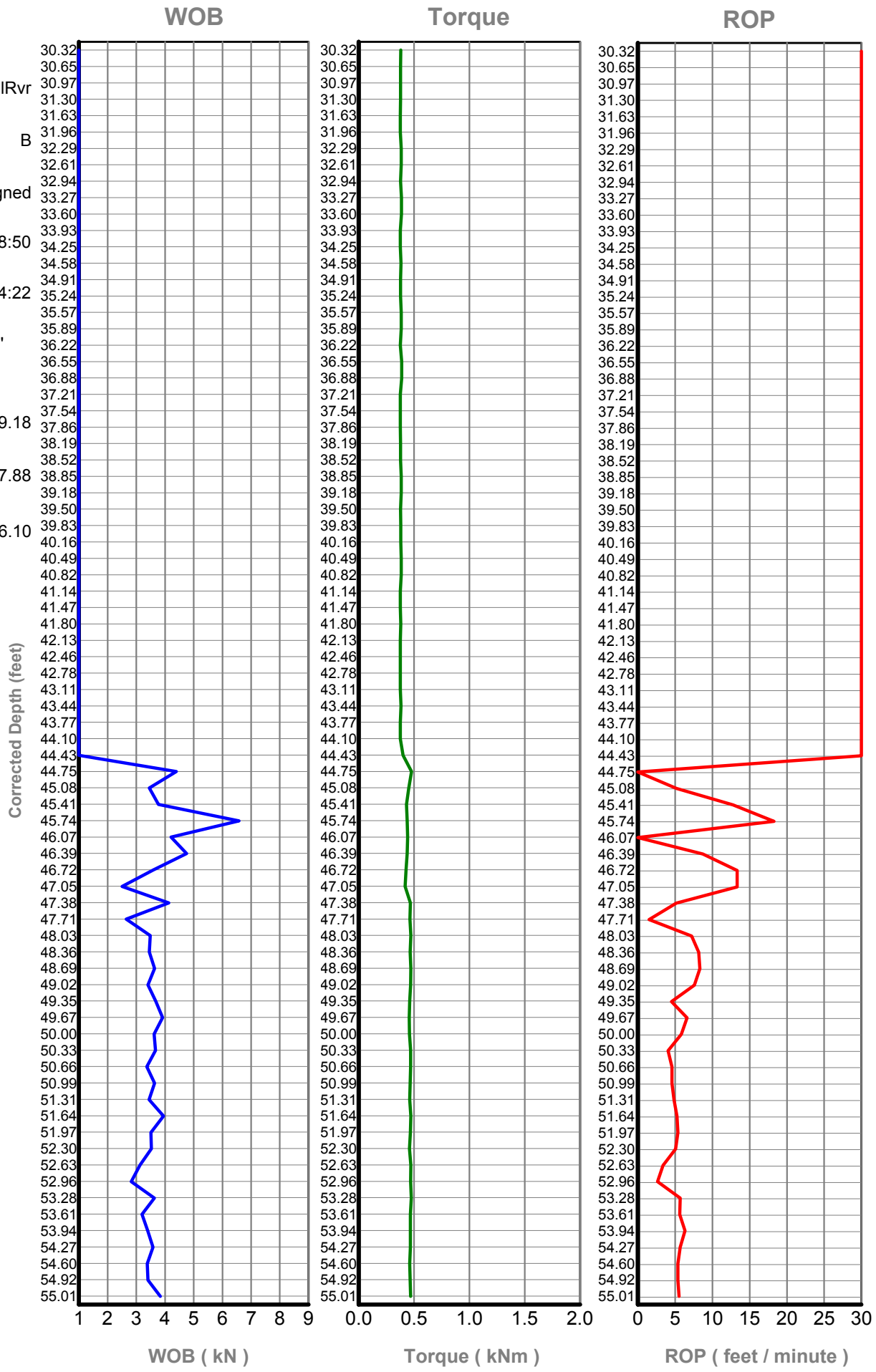
**End Date:**
4/29/2015 23:24:22

**Operator Note:**
'6.1 6.1b Auto Complete'

**Northing:**
362,479.18

**Easting:**
245,717.88

**Tide (feet):**
6.10



## Hole: K131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:18:44 | 36.42 | 30.32 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 23:18:44 | 36.75 | 30.65 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 23:18:45 | 37.07 | 30.97 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 23:18:45 | 37.40 | 31.30 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 23:18:45 | 37.73 | 31.63 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:46 | 38.06 | 31.96 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:46 | 38.39 | 32.29 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:46 | 38.71 | 32.61 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:47 | 39.04 | 32.94 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:47 | 39.37 | 33.27 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 23:18:47 | 39.70 | 33.60 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 23:18:48 | 40.03 | 33.93 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 23:18:48 | 40.35 | 34.25 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 23:18:48 | 40.68 | 34.58 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 23:18:49 | 41.01 | 34.91 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 23:18:49 | 41.34 | 35.24 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:18:49 | 41.67 | 35.57 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:18:49 | 41.99 | 35.89 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:18:50 | 42.32 | 36.22 | 1,089 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 23:18:50 | 42.65 | 36.55 | 1,089 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 23:18:50 | 42.98 | 36.88 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:18:51 | 43.31 | 37.21 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/29/2015 23:18:51 | 43.64 | 37.54 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/29/2015 23:18:51 | 43.96 | 37.86 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/29/2015 23:18:52 | 44.29 | 38.19 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/29/2015 23:18:52 | 44.62 | 38.52 | 1,073 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 23:18:52 | 44.95 | 38.85 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 23:18:53 | 45.28 | 39.18 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 23:18:53 | 45.60 | 39.50 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 23:18:54 | 45.93 | 39.83 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 23:18:54 | 46.26 | 40.16 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 23:18:54 | 46.59 | 40.49 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 23:18:55 | 46.92 | 40.82 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:55 | 47.24 | 41.14 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:55 | 47.57 | 41.47 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:56 | 47.90 | 41.80 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:56 | 48.23 | 42.13 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:56 | 48.56 | 42.46 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 23:18:57 | 48.88 | 42.78 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 23:18:57 | 49.21 | 43.11 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:18:57 | 49.54 | 43.44 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 23:19:08 | 49.87 | 43.77 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 23:19:10 | 50.20 | 44.10 | 174 | 1.14 | 0.29 | 9.5 |
| 4/29/2015 23:19:10 | 50.53 | 44.43 | 174 | 1.14 | 0.29 | 9.5 |
| 4/29/2015 23:19:11 | 50.85 | 44.75 | 271 | 1.14 | 0.29 | 14.8 |
| 4/29/2015 23:19:18 | 51.18 | 45.08 | 54 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 23:19:19 | 51.51 | 45.41 | 181 | 1.14 | 0.29 | 9.9 |
| 4/29/2015 23:19:20 | 51.84 | 45.74 | 372 | 1.14 | 0.29 | 20.3 |
| 4/29/2015 23:19:20 | 52.17 | 46.07 | 415 | 1.14 | 0.29 | 22.7 |
| 4/29/2015 23:19:21 | 52.49 | 46.39 | 488 | 1.14 | 0.29 | 26.7 |
| 4/29/2015 23:19:27 | 52.82 | 46.72 | 56 | 1.14 | 0.29 | 3.1 |
| 4/29/2015 23:19:42 | 53.15 | 47.05 | 23 | 1.14 | 0.29 | 1.3 |
| 4/29/2015 23:19:55 | 53.48 | 47.38 | 26 | 1.14 | 0.29 | 1.4 |
| 4/29/2015 23:20:06 | 53.81 | 47.71 | 38 | 1.14 | 0.29 | 2.1 |
| 4/29/2015 23:20:11 | 54.05 | 47.95 | 61 | 1.14 | 0.29 | 3.3 |

## K131 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:17:48

**End Date:**
4/29/2015 23:21:32

**Operator Note:**
'6.1 6.1 c Auto Complete'

**Northing:**
362,525.80

**Easting:**
245,776.63

**Tide (feet):**
6.10



## Hole: K132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 21:40:36 | 36.42 | 30.22 | 772 | 1.06 | 0.18 | 42.2 |
| 4/29/2015 21:40:36 | 36.75 | 30.55 | 770 | 1.06 | 0.18 | 42.1 |
| 4/29/2015 21:40:36 | 37.07 | 30.87 | 781 | 1.05 | 0.18 | 42.7 |
| 4/29/2015 21:40:37 | 37.40 | 31.20 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 21:40:38 | 37.73 | 31.53 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 21:40:38 | 38.06 | 31.86 | 784 | 1.05 | 0.18 | 42.9 |
| 4/29/2015 21:40:39 | 38.39 | 32.19 | 795 | 1.03 | 0.18 | 43.5 |
| 4/29/2015 21:40:39 | 38.71 | 32.51 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 21:40:40 | 39.04 | 32.84 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 21:40:40 | 39.37 | 33.17 | 792 | 1.03 | 0.18 | 43.3 |
| 4/29/2015 21:40:40 | 39.70 | 33.50 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 21:40:41 | 40.03 | 33.83 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 21:40:41 | 40.35 | 34.15 | 787 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 21:40:42 | 40.68 | 34.48 | 795 | 1.06 | 0.18 | 43.5 |
| 4/29/2015 21:40:42 | 41.01 | 34.81 | 787 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 21:40:43 | 41.34 | 35.14 | 787 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 21:40:43 | 41.67 | 35.47 | 792 | 1.05 | 0.18 | 43.3 |
| 4/29/2015 21:40:43 | 41.99 | 35.79 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 21:40:44 | 42.32 | 36.12 | 794 | 1.05 | 0.18 | 43.4 |
| 4/29/2015 21:40:44 | 42.65 | 36.45 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 21:40:45 | 42.98 | 36.78 | 797 | 1.04 | 0.18 | 43.6 |
| 4/29/2015 21:40:45 | 43.31 | 37.11 | 769 | 1.05 | 0.18 | 42.1 |
| 4/29/2015 21:40:46 | 43.64 | 37.44 | 774 | 1.05 | 0.18 | 42.3 |
| 4/29/2015 21:40:46 | 43.96 | 37.76 | 774 | 1.05 | 0.18 | 42.3 |
| 4/29/2015 21:40:46 | 44.29 | 38.09 | 774 | 1.05 | 0.18 | 42.3 |
| 4/29/2015 21:40:47 | 44.62 | 38.42 | 778 | 1.03 | 0.18 | 42.5 |
| 4/29/2015 21:40:47 | 44.95 | 38.75 | 774 | 1.05 | 0.18 | 42.3 |
| 4/29/2015 21:40:48 | 45.28 | 39.08 | 774 | 1.06 | 0.18 | 42.3 |
| 4/29/2015 21:40:49 | 45.60 | 39.40 | 771 | 1.06 | 0.18 | 42.1 |
| 4/29/2015 21:40:49 | 45.93 | 39.73 | 803 | 1.15 | 0.18 | 43.9 |
| 4/29/2015 21:40:50 | 46.26 | 40.06 | 803 | 1.15 | 0.18 | 43.9 |
| 4/29/2015 21:40:50 | 46.59 | 40.39 | 800 | 1.05 | 0.18 | 43.7 |
| 4/29/2015 21:40:50 | 46.92 | 40.72 | 796 | 1.04 | 0.18 | 43.5 |
| 4/29/2015 21:40:51 | 47.24 | 41.04 | 798 | 1.04 | 0.18 | 43.6 |
| 4/29/2015 21:40:51 | 47.57 | 41.37 | 792 | 1.06 | 0.18 | 43.3 |
| 4/29/2015 21:40:52 | 47.90 | 41.70 | 789 | 1.05 | 0.18 | 43.1 |
| 4/29/2015 21:40:52 | 48.23 | 42.03 | 768 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 21:40:53 | 48.56 | 42.36 | 768 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 21:40:53 | 48.88 | 42.68 | 768 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 21:40:53 | 49.21 | 43.01 | 777 | 1.04 | 0.18 | 42.5 |
| 4/29/2015 21:40:54 | 49.54 | 43.34 | 777 | 1.03 | 0.18 | 42.5 |
| 4/29/2015 21:40:55 | 49.87 | 43.67 | 786 | 1.12 | 0.17 | 43.0 |
| 4/29/2015 21:41:32 | 50.20 | 44.00 | 42 | 1.11 | 0.94 | 2.3 |
| 4/29/2015 21:41:38 | 50.53 | 44.33 | 101 | 1.07 | 1.29 | 5.5 |
| 4/29/2015 21:41:41 | 50.85 | 44.65 | 156 | 1.15 | 0.86 | 8.5 |
| 4/29/2015 21:41:47 | 51.18 | 44.98 | 0 | 1.05 | 1.95 | 0.0 |
| 4/29/2015 21:41:51 | 51.51 | 45.31 | 78 | 1.09 | 1.26 | 4.2 |
| 4/29/2015 21:41:57 | 51.84 | 45.64 | 110 | 1.11 | 1.28 | 6.0 |
| 4/29/2015 21:41:59 | 52.17 | 45.97 | 170 | 0.65 | 1.34 | 9.3 |
| 4/29/2015 21:42:05 | 52.49 | 46.29 | 5 | 1.04 | 1.17 | 0.3 |
| 4/29/2015 21:42:06 | 52.82 | 46.62 | 108 | 1.22 | 0.99 | 5.9 |
| 4/29/2015 21:42:06 | 53.15 | 46.95 | 211 | 1.09 | 1.02 | 11.6 |
| 4/29/2015 21:42:13 | 53.48 | 47.28 | 63 | 1.09 | 1.18 | 3.4 |
| 4/29/2015 21:42:36 | 53.81 | 47.61 | 49 | 1.13 | 1.20 | 2.7 |
| 4/29/2015 21:42:38 | 54.13 | 47.93 | 166 | 1.71 | 1.32 | 9.1 |
| 4/29/2015 21:42:39 | 54.46 | 48.26 | 283 | 1.73 | 1.08 | 15.5 |
| 4/29/2015 21:42:39 | 54.79 | 48.59 | 354 | 1.74 | 1.02 | 19.3 |
| 4/29/2015 21:43:08 | 55.12 | 48.92 | 11 | 1.09 | 1.61 | 0.6 |
| 4/29/2015 21:43:21 | 55.45 | 49.25 | 58 | 1.02 | 0.98 | 3.2 |
| 4/29/2015 21:43:23 | 55.77 | 49.57 | 190 | 1.10 | 1.01 | 10.4 |
| 4/29/2015 21:43:28 | 56.10 | 49.90 | 81 | 1.04 | 1.02 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 21:43:31 | 56.43 | 50.23 | 104 | 1.07 | 1.14 | 5.7 |
| 4/29/2015 | 21:43:33 | 56.76 | 50.56 | 133 | 1.05 | 0.97 | 7.3 |
| 4/29/2015 | 21:43:37 | 57.09 | 50.89 | 123 | 1.02 | 0.94 | 6.7 |
| 4/29/2015 | 21:43:41 | 57.41 | 51.21 | 74 | 1.10 | 0.88 | 4.1 |
| 4/29/2015 | 21:43:54 | 57.74 | 51.54 | 73 | 1.09 | 0.96 | 4.0 |
| 4/29/2015 | 21:44:01 | 58.07 | 51.87 | 49 | 0.99 | 0.77 | 2.7 |
| 4/29/2015 | 21:44:09 | 58.40 | 52.20 | 40 | 1.02 | 0.81 | 2.2 |
| 4/29/2015 | 21:44:21 | 58.73 | 52.53 | 46 | 1.05 | 0.93 | 2.5 |
| 4/29/2015 | 21:44:28 | 59.06 | 52.86 | 55 | 1.04 | 0.98 | 3.0 |
| 4/29/2015 | 21:44:29 | 59.15 | 52.95 | 63 | 1.15 | 1.08 | 3.5 |

## K132 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 21:37:11

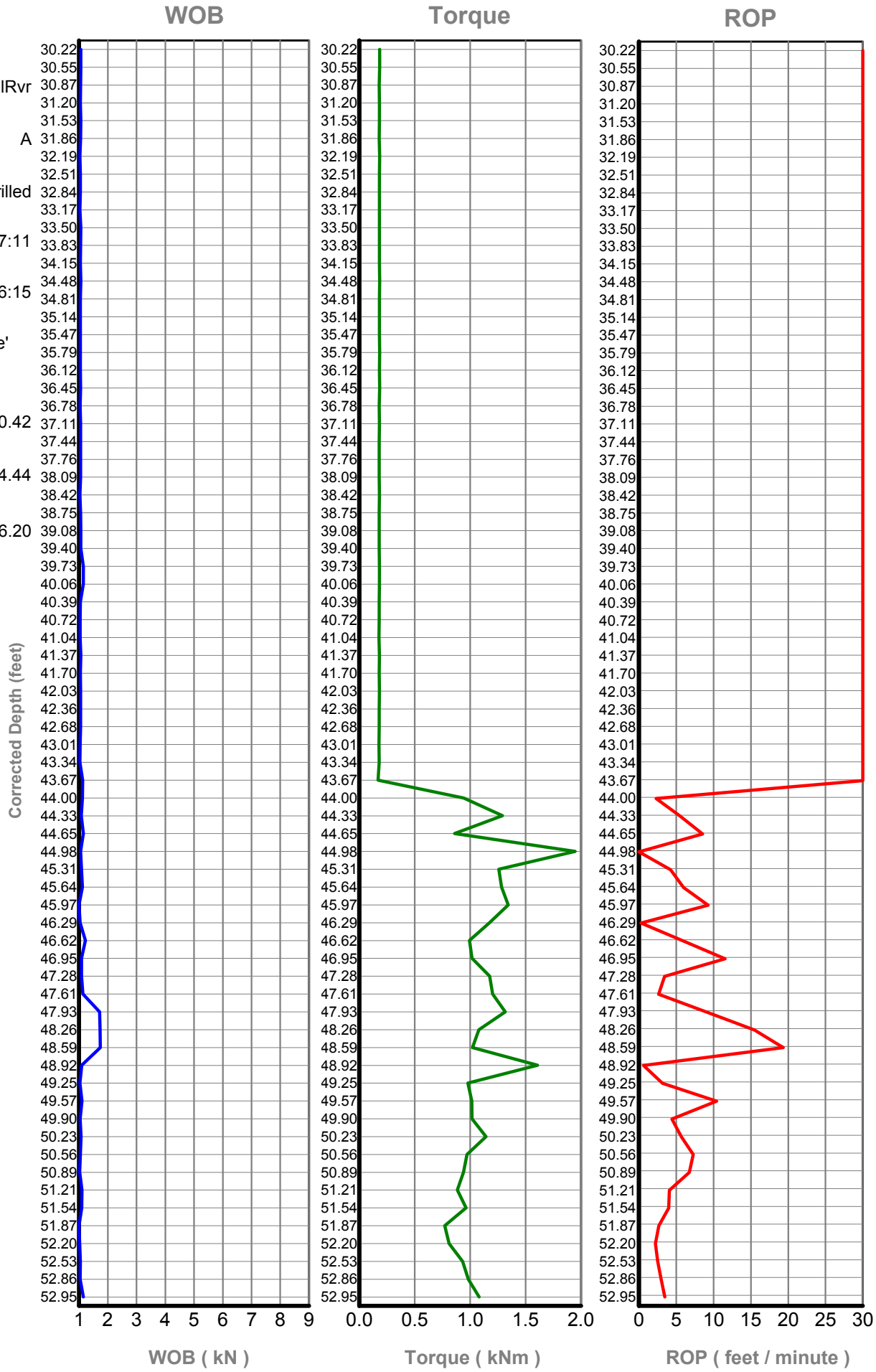
**End Date:**
4/29/2015 21:46:15

**Operator Note:**
'6.2 6.1 b Auto Complete'

**Northing:**
362,580.42

**Easting:**
245,834.44

**Tide (feet):**
6.20



## Hole: K133 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 21:25:33 | 36.09 | 30.09 | 931 | 0.39 | 0.40 | 50.9 |
| 4/29/2015 21:25:34 | 36.42 | 30.42 | 915 | 0.39 | 0.40 | 50.0 |
| 4/29/2015 21:25:34 | 36.75 | 30.75 | 915 | 0.39 | 0.40 | 50.0 |
| 4/29/2015 21:25:34 | 37.07 | 31.07 | 929 | 0.39 | 0.40 | 50.8 |
| 4/29/2015 21:25:35 | 37.40 | 31.40 | 924 | 0.39 | 0.40 | 50.5 |
| 4/29/2015 21:25:35 | 37.73 | 31.73 | 926 | 0.39 | 0.42 | 50.7 |
| 4/29/2015 21:25:36 | 38.06 | 32.06 | 926 | 0.39 | 0.42 | 50.7 |
| 4/29/2015 21:25:36 | 38.39 | 32.39 | 924 | 0.39 | 0.40 | 50.5 |
| 4/29/2015 21:25:37 | 38.71 | 32.71 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:37 | 39.04 | 33.04 | 931 | 0.39 | 0.40 | 50.9 |
| 4/29/2015 21:25:38 | 39.37 | 33.37 | 931 | 0.39 | 0.40 | 50.9 |
| 4/29/2015 21:25:38 | 39.70 | 33.70 | 931 | 0.39 | 0.41 | 50.9 |
| 4/29/2015 21:25:38 | 40.03 | 34.03 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:39 | 40.35 | 34.35 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:39 | 40.68 | 34.68 | 937 | 0.39 | 0.40 | 51.2 |
| 4/29/2015 21:25:39 | 41.01 | 35.01 | 937 | 0.39 | 0.40 | 51.2 |
| 4/29/2015 21:25:40 | 41.34 | 35.34 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:40 | 41.67 | 35.67 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:40 | 41.99 | 35.99 | 928 | 0.39 | 0.40 | 50.7 |
| 4/29/2015 21:25:41 | 42.32 | 36.32 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:41 | 42.65 | 36.65 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:42 | 42.98 | 36.98 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:42 | 43.31 | 37.31 | 942 | 0.39 | 0.40 | 51.5 |
| 4/29/2015 21:25:42 | 43.64 | 37.64 | 934 | 0.39 | 0.38 | 51.1 |
| 4/29/2015 21:25:43 | 43.96 | 37.96 | 939 | 0.39 | 0.40 | 51.4 |
| 4/29/2015 21:25:43 | 44.29 | 38.29 | 939 | 0.39 | 0.40 | 51.4 |
| 4/29/2015 21:25:43 | 44.62 | 38.62 | 939 | 0.39 | 0.40 | 51.4 |
| 4/29/2015 21:25:44 | 44.95 | 38.95 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:44 | 45.28 | 39.28 | 934 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:44 | 45.60 | 39.60 | 921 | 0.39 | 0.40 | 50.3 |
| 4/29/2015 21:25:45 | 45.93 | 39.93 | 921 | 0.39 | 0.40 | 50.3 |
| 4/29/2015 21:25:45 | 46.26 | 40.26 | 932 | 0.39 | 0.40 | 51.0 |
| 4/29/2015 21:25:46 | 46.59 | 40.59 | 932 | 0.39 | 0.40 | 51.0 |
| 4/29/2015 21:25:46 | 46.92 | 40.92 | 935 | 0.39 | 0.40 | 51.1 |
| 4/29/2015 21:25:46 | 47.24 | 41.24 | 929 | 0.39 | 0.40 | 50.8 |
| 4/29/2015 21:25:47 | 47.57 | 41.57 | 943 | 0.39 | 0.41 | 51.6 |
| 4/29/2015 21:25:48 | 47.90 | 41.90 | 943 | 0.39 | 0.41 | 51.6 |
| 4/29/2015 21:25:48 | 48.23 | 42.23 | 948 | 0.39 | 0.40 | 51.8 |
| 4/29/2015 21:25:48 | 48.56 | 42.56 | 937 | 0.39 | 0.40 | 51.2 |
| 4/29/2015 21:25:49 | 48.88 | 42.88 | 931 | 0.39 | 0.40 | 50.9 |
| 4/29/2015 21:25:49 | 49.21 | 43.21 | 931 | 0.39 | 0.40 | 50.9 |
| 4/29/2015 21:25:49 | 49.54 | 43.54 | 937 | 0.39 | 0.40 | 51.2 |
| 4/29/2015 21:25:50 | 49.87 | 43.87 | 931 | 0.37 | 0.43 | 50.9 |
| 4/29/2015 21:25:54 | 50.20 | 44.20 | 49 | 4.15 | 0.48 | 2.7 |
| 4/29/2015 21:25:57 | 50.53 | 44.53 | 95 | 5.45 | 0.47 | 5.2 |
| 4/29/2015 21:26:01 | 50.85 | 44.85 | 51 | 4.72 | 0.45 | 2.8 |
| 4/29/2015 21:26:03 | 51.18 | 45.18 | 207 | 3.64 | 0.48 | 11.3 |
| 4/29/2015 21:26:05 | 51.51 | 45.51 | 159 | 3.97 | 0.48 | 8.7 |
| 4/29/2015 21:26:07 | 51.84 | 45.84 | 170 | 3.79 | 0.45 | 9.3 |
| 4/29/2015 21:26:10 | 52.17 | 46.17 | 159 | 4.26 | 0.48 | 8.7 |
| 4/29/2015 21:26:18 | 52.49 | 46.49 | 54 | 4.72 | 0.46 | 3.0 |
| 4/29/2015 21:26:19 | 52.82 | 46.82 | 188 | 3.90 | 0.45 | 10.3 |
| 4/29/2015 21:26:20 | 53.15 | 47.15 | 327 | 3.28 | 0.46 | 17.9 |
| 4/29/2015 21:26:21 | 53.48 | 47.48 | 356 | 3.99 | 0.46 | 19.4 |
| 4/29/2015 21:26:22 | 53.81 | 47.81 | 379 | 3.84 | 0.46 | 20.7 |
| 4/29/2015 21:26:23 | 54.13 | 48.13 | 376 | 3.81 | 0.44 | 20.5 |
| 4/29/2015 21:26:24 | 54.46 | 48.46 | 402 | 3.39 | 0.44 | 22.0 |
| 4/29/2015 21:26:24 | 54.79 | 48.79 | 430 | 3.22 | 0.43 | 23.5 |
| 4/29/2015 21:26:25 | 55.12 | 49.12 | 439 | 4.76 | 0.45 | 24.0 |
| 4/29/2015 21:26:26 | 55.45 | 49.45 | 429 | 3.54 | 0.45 | 23.4 |
| 4/29/2015 21:26:27 | 55.77 | 49.77 | 358 | 3.96 | 0.45 | 19.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/29/2015 21:26:29 | 56.10 | 50.10 | 370 | 3.29 | 0.44 | 20.2 |
| 4/29/2015 21:26:30 | 56.43 | 50.43 | 387 | 3.73 | 0.48 | 21.2 |
| 4/29/2015 21:26:36 | 56.76 | 50.76 | 49 | 3.60 | 0.48 | 2.7 |
| 4/29/2015 21:26:45 | 57.09 | 51.09 | 43 | 3.42 | 0.48 | 2.4 |
| 4/29/2015 21:26:49 | 57.41 | 51.41 | 86 | 3.35 | 0.48 | 4.7 |
| 4/29/2015 21:26:59 | 57.74 | 51.74 | 35 | 3.23 | 0.48 | 1.9 |
| 4/29/2015 21:27:08 | 58.07 | 52.07 | 38 | 3.31 | 0.48 | 2.1 |
| 4/29/2015 21:27:13 | 58.40 | 52.40 | 61 | 4.33 | 0.48 | 3.3 |
| 4/29/2015 21:27:17 | 58.73 | 52.73 | 89 | 3.90 | 0.48 | 4.9 |
| 4/29/2015 21:27:25 | 59.06 | 53.06 | 38 | 3.25 | 0.47 | 2.1 |
| 4/29/2015 21:27:33 | 59.38 | 53.38 | 42 | 3.60 | 0.48 | 2.3 |
| 4/29/2015 21:27:40 | 59.71 | 53.71 | 52 | 3.75 | 0.47 | 2.8 |
| 4/29/2015 21:27:43 | 59.92 | 53.92 | 76 | 4.25 | 0.47 | 4.1 |

## K133 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 21:23:54

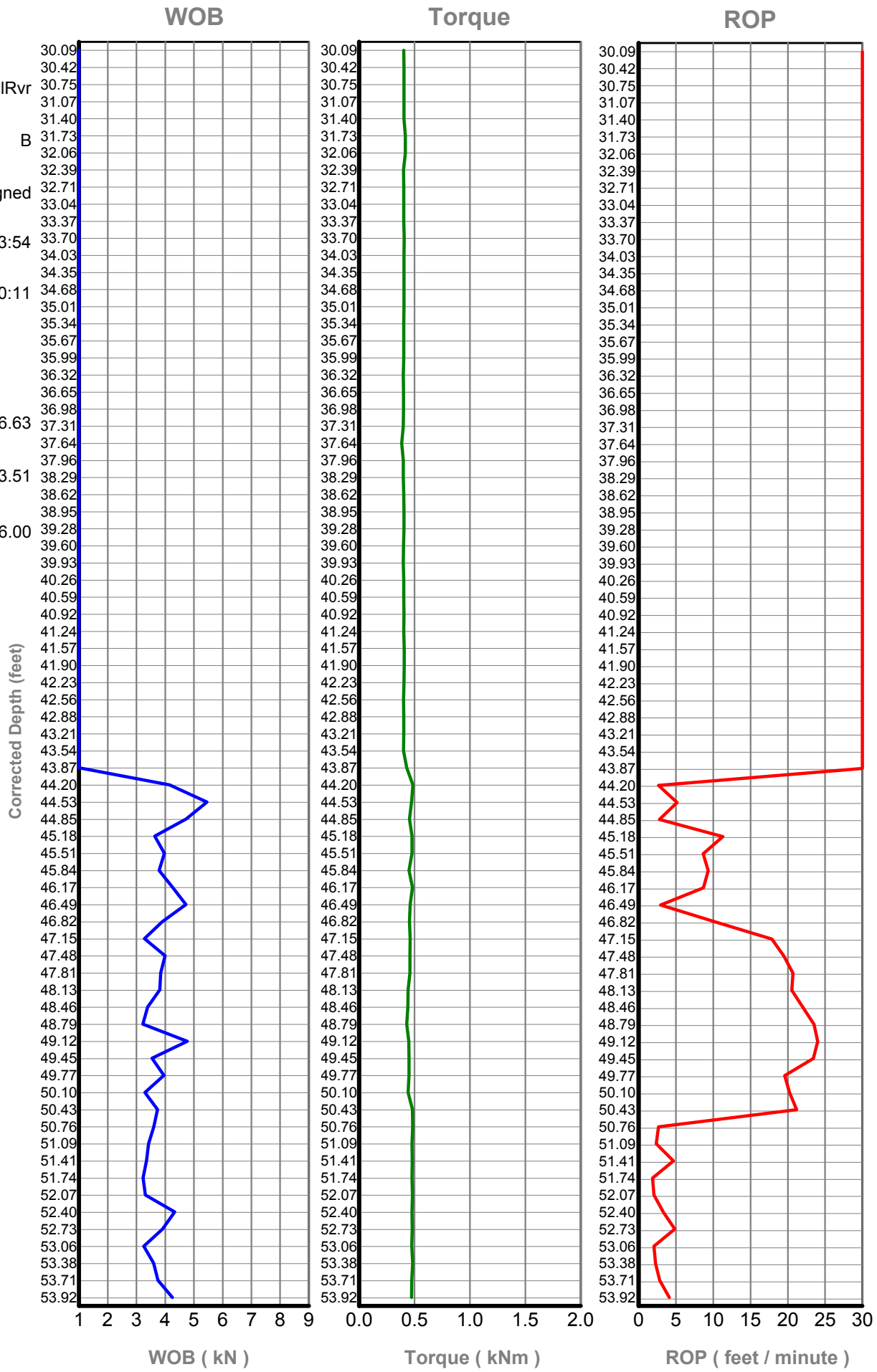
**End Date:**
4/29/2015 21:30:11

**Operator Note:**
'6 5.9b Auto Complete'

**Northing:**
362,626.63

**Easting:**
245,893.51

**Tide (feet):**
6.00



## Hole: K134 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 21:34:52 | 36.42 | 30.22 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:34:52 | 36.75 | 30.55 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:34:52 | 37.07 | 30.87 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:34:53 | 37.40 | 31.20 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:34:53 | 37.73 | 31.53 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:34:53 | 38.06 | 31.86 | 1,116 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 21:34:54 | 38.39 | 32.19 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 21:34:54 | 38.71 | 32.51 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 21:34:54 | 39.04 | 32.84 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 21:34:55 | 39.37 | 33.17 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/29/2015 21:34:55 | 39.70 | 33.50 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:34:55 | 40.03 | 33.83 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:34:56 | 40.35 | 34.15 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:34:56 | 40.68 | 34.48 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:34:56 | 41.01 | 34.81 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:34:57 | 41.34 | 35.14 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:34:57 | 41.67 | 35.47 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 21:34:57 | 41.99 | 35.79 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 21:34:57 | 42.32 | 36.12 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 21:34:58 | 42.65 | 36.45 | 1,098 | 1.14 | 0.29 | 60.0 |
| 4/29/2015 21:34:58 | 42.98 | 36.78 | 1,098 | 1.14 | 0.29 | 60.0 |
| 4/29/2015 21:34:58 | 43.31 | 37.11 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:34:59 | 43.64 | 37.44 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:34:59 | 43.96 | 37.76 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:34:59 | 44.29 | 38.09 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:35:00 | 44.62 | 38.42 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 21:35:00 | 44.95 | 38.75 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 21:35:00 | 45.28 | 39.08 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:35:01 | 45.60 | 39.40 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 21:35:01 | 45.93 | 39.73 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:35:02 | 46.26 | 40.06 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:35:02 | 46.59 | 40.39 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 21:35:02 | 46.92 | 40.72 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:35:03 | 47.24 | 41.04 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:35:03 | 47.57 | 41.37 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 21:35:03 | 47.90 | 41.70 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:35:04 | 48.23 | 42.03 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 21:35:04 | 48.56 | 42.36 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 21:35:04 | 48.88 | 42.68 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 21:35:05 | 49.21 | 43.01 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 21:35:05 | 49.54 | 43.34 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 21:35:05 | 49.87 | 43.67 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 21:35:05 | 50.20 | 44.00 | 1,089 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 21:35:06 | 50.53 | 44.33 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/29/2015 21:35:06 | 50.85 | 44.65 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/29/2015 21:35:06 | 51.18 | 44.98 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 21:35:07 | 51.51 | 45.31 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 21:35:07 | 51.84 | 45.64 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 21:35:07 | 52.17 | 45.97 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 21:35:08 | 52.49 | 46.29 | 1,069 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 21:35:25 | 52.82 | 46.62 | 26 | 1.14 | 0.29 | 1.4 |
| 4/29/2015 21:35:26 | 53.15 | 46.95 | 165 | 1.14 | 0.29 | 9.0 |
| 4/29/2015 21:35:26 | 53.48 | 47.28 | 313 | 1.14 | 0.29 | 17.1 |
| 4/29/2015 21:35:27 | 53.81 | 47.61 | 313 | 1.14 | 0.29 | 17.1 |
| 4/29/2015 21:35:29 | 54.13 | 47.93 | 330 | 1.14 | 0.29 | 18.1 |
| 4/29/2015 21:35:29 | 54.46 | 48.26 | 242 | 1.14 | 0.29 | 13.2 |
| 4/29/2015 21:35:30 | 54.79 | 48.59 | 257 | 1.14 | 0.29 | 14.1 |
| 4/29/2015 21:35:30 | 55.12 | 48.92 | 257 | 1.14 | 0.29 | 14.1 |
| 4/29/2015 21:35:30 | 55.45 | 49.25 | 457 | 1.14 | 0.29 | 25.0 |
| 4/29/2015 21:35:31 | 55.77 | 49.57 | 654 | 1.14 | 0.29 | 35.8 |
| 4/29/2015 21:35:31 | 56.10 | 49.90 | 837 | 1.14 | 0.29 | 45.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 21:35:32 | 56.43 | 50.23 | 837 | 1.14 | 0.29 | 45.8 |
| 4/29/2015 | 21:35:32 | 56.76 | 50.56 | 942 | 1.14 | 0.29 | 51.5 |
| 4/29/2015 | 21:35:32 | 57.09 | 50.89 | 910 | 1.14 | 0.29 | 49.8 |
| 4/29/2015 | 21:35:33 | 57.41 | 51.21 | 873 | 1.14 | 0.29 | 47.7 |
| 4/29/2015 | 21:35:33 | 57.74 | 51.54 | 858 | 1.14 | 0.29 | 46.9 |
| 4/29/2015 | 21:35:34 | 58.07 | 51.87 | 858 | 1.14 | 0.29 | 46.9 |
| 4/29/2015 | 21:35:34 | 58.40 | 52.20 | 859 | 1.14 | 0.29 | 46.9 |
| 4/29/2015 | 21:35:34 | 58.73 | 52.53 | 890 | 1.14 | 0.29 | 48.7 |
| 4/29/2015 | 21:35:35 | 59.06 | 52.86 | 890 | 1.14 | 0.29 | 48.7 |
| 4/29/2015 | 21:35:35 | 59.38 | 53.18 | 908 | 1.14 | 0.29 | 49.7 |
| 4/29/2015 | 21:35:35 | 59.71 | 53.51 | 908 | 1.14 | 0.29 | 49.7 |
| 4/29/2015 | 21:35:36 | 60.04 | 53.84 | 951 | 1.14 | 0.29 | 52.0 |
| 4/29/2015 | 21:35:37 | 60.37 | 54.17 | 951 | 1.14 | 0.29 | 52.0 |
| 4/29/2015 | 21:35:37 | 60.70 | 54.50 | 965 | 1.14 | 0.29 | 52.8 |
| 4/29/2015 | 21:35:37 | 61.02 | 54.82 | 983 | 1.14 | 0.29 | 53.7 |
| 4/29/2015 | 21:35:38 | 61.35 | 55.15 | 983 | 1.14 | 0.29 | 53.7 |
| 4/29/2015 | 21:35:37 | 61.41 | 55.21 | 983 | 1.14 | 0.29 | 53.7 |

## K134 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/29/2015 21:33:30

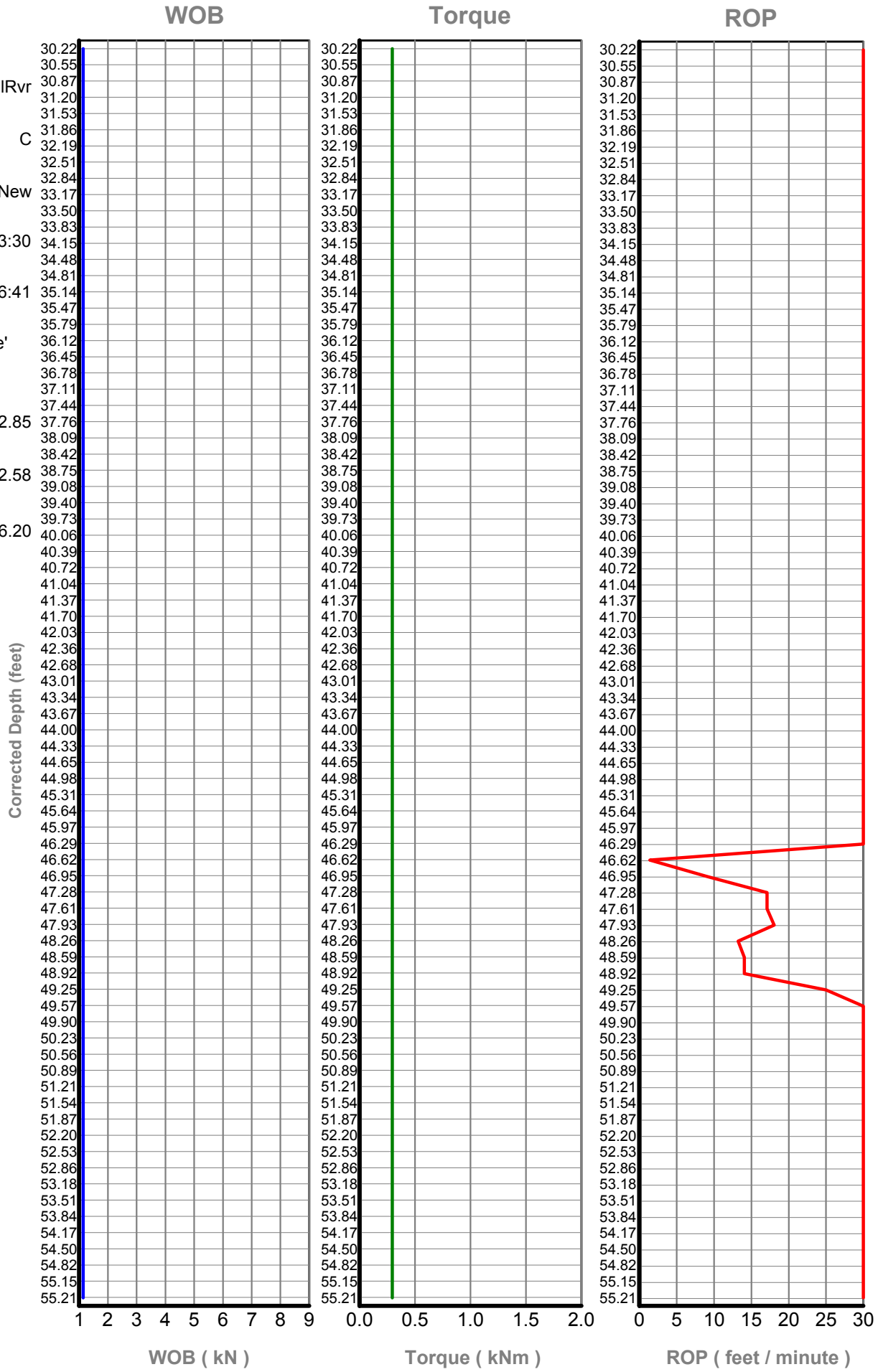
**End Date:**
4/29/2015 21:36:41

**Operator Note:**
'6.2 6.0 c Auto Complete'

**Northing:**
362,672.85

**Easting:**
245,952.58

**Tide (feet):**
6.20



## Hole: K135 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:35:19 | 36.42 | 30.32 | 882 | 1.18 | 0.16 | 48.2 |
| 4/30/2015 9:35:19 | 36.75 | 30.65 | 882 | 1.18 | 0.16 | 48.2 |
| 4/30/2015 9:35:19 | 37.07 | 30.97 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 9:35:20 | 37.40 | 31.30 | 879 | 1.16 | 0.16 | 48.1 |
| 4/30/2015 9:35:20 | 37.73 | 31.63 | 872 | 1.17 | 0.16 | 47.7 |
| 4/30/2015 9:35:21 | 38.06 | 31.96 | 883 | 1.17 | 0.16 | 48.3 |
| 4/30/2015 9:35:21 | 38.39 | 32.29 | 883 | 1.17 | 0.16 | 48.3 |
| 4/30/2015 9:35:21 | 38.71 | 32.61 | 880 | 1.16 | 0.16 | 48.1 |
| 4/30/2015 9:35:22 | 39.04 | 32.94 | 883 | 1.17 | 0.16 | 48.3 |
| 4/30/2015 9:35:22 | 39.37 | 33.27 | 878 | 1.17 | 0.16 | 48.0 |
| 4/30/2015 9:35:23 | 39.70 | 33.60 | 878 | 1.17 | 0.16 | 48.0 |
| 4/30/2015 9:35:23 | 40.03 | 33.93 | 892 | 1.19 | 0.16 | 48.8 |
| 4/30/2015 9:35:23 | 40.35 | 34.25 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 9:35:24 | 40.68 | 34.58 | 879 | 1.17 | 0.16 | 48.1 |
| 4/30/2015 9:35:24 | 41.01 | 34.91 | 866 | 1.17 | 0.16 | 47.4 |
| 4/30/2015 9:35:25 | 41.34 | 35.24 | 866 | 1.17 | 0.16 | 47.4 |
| 4/30/2015 9:35:25 | 41.67 | 35.57 | 880 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 9:35:25 | 41.99 | 35.89 | 877 | 1.16 | 0.16 | 48.0 |
| 4/30/2015 9:35:26 | 42.32 | 36.22 | 874 | 1.17 | 0.16 | 47.8 |
| 4/30/2015 9:35:26 | 42.65 | 36.55 | 869 | 1.17 | 0.16 | 47.5 |
| 4/30/2015 9:35:27 | 42.98 | 36.88 | 869 | 1.17 | 0.16 | 47.5 |
| 4/30/2015 9:35:27 | 43.31 | 37.21 | 887 | 1.16 | 0.14 | 48.5 |
| 4/30/2015 9:35:27 | 43.64 | 37.54 | 873 | 1.17 | 0.16 | 47.7 |
| 4/30/2015 9:35:28 | 43.96 | 37.86 | 873 | 1.16 | 0.16 | 47.7 |
| 4/30/2015 9:35:29 | 44.29 | 38.19 | 873 | 1.16 | 0.16 | 47.7 |
| 4/30/2015 9:35:29 | 44.62 | 38.52 | 864 | 1.18 | 0.16 | 47.2 |
| 4/30/2015 9:35:29 | 44.95 | 38.85 | 877 | 1.16 | 0.16 | 48.0 |
| 4/30/2015 9:35:30 | 45.28 | 39.18 | 860 | 1.17 | 0.16 | 47.0 |
| 4/30/2015 9:35:30 | 45.60 | 39.50 | 852 | 1.19 | 0.16 | 46.6 |
| 4/30/2015 9:35:31 | 45.93 | 39.83 | 852 | 1.19 | 0.16 | 46.6 |
| 4/30/2015 9:35:31 | 46.26 | 40.16 | 852 | 1.17 | 0.16 | 46.6 |
| 4/30/2015 9:35:31 | 46.59 | 40.49 | 860 | 1.17 | 0.16 | 47.0 |
| 4/30/2015 9:35:32 | 46.92 | 40.82 | 875 | 1.17 | 0.16 | 47.9 |
| 4/30/2015 9:35:32 | 47.24 | 41.14 | 843 | 1.17 | 0.16 | 46.1 |
| 4/30/2015 9:35:33 | 47.57 | 41.47 | 843 | 1.17 | 0.16 | 46.1 |
| 4/30/2015 9:35:33 | 47.90 | 41.80 | 864 | 1.17 | 0.16 | 47.2 |
| 4/30/2015 9:35:33 | 48.23 | 42.13 | 864 | 1.16 | 0.16 | 47.2 |
| 4/30/2015 9:35:34 | 48.56 | 42.46 | 876 | 1.17 | 0.16 | 47.9 |
| 4/30/2015 9:35:34 | 48.88 | 42.78 | 868 | 1.17 | 0.16 | 47.5 |
| 4/30/2015 9:35:35 | 49.21 | 43.11 | 868 | 1.17 | 0.16 | 47.5 |
| 4/30/2015 9:35:35 | 49.54 | 43.44 | 862 | 1.15 | 0.16 | 47.2 |
| 4/30/2015 9:35:35 | 49.87 | 43.77 | 883 | 1.17 | 0.16 | 48.3 |
| 4/30/2015 9:35:36 | 50.20 | 44.10 | 875 | 1.17 | 0.16 | 47.8 |
| 4/30/2015 9:35:36 | 50.53 | 44.43 | 875 | 1.17 | 0.16 | 47.8 |
| 4/30/2015 9:35:36 | 50.85 | 44.75 | 867 | 1.17 | 0.16 | 47.4 |
| 4/30/2015 9:35:37 | 51.18 | 45.08 | 859 | 1.16 | 0.16 | 47.0 |
| 4/30/2015 9:35:37 | 51.51 | 45.41 | 864 | 1.16 | 0.16 | 47.3 |
| 4/30/2015 9:35:38 | 51.84 | 45.74 | 861 | 1.17 | 0.16 | 47.1 |
| 4/30/2015 9:35:39 | 52.17 | 46.07 | 861 | 1.17 | 0.16 | 47.1 |
| 4/30/2015 9:35:39 | 52.49 | 46.39 | 861 | 1.16 | 0.16 | 47.1 |
| 4/30/2015 9:35:39 | 52.82 | 46.72 | 859 | 1.17 | 0.16 | 46.9 |
| 4/30/2015 9:35:40 | 53.15 | 47.05 | 864 | 1.16 | 0.16 | 47.3 |
| 4/30/2015 9:35:40 | 53.48 | 47.38 | 861 | 1.15 | 0.16 | 47.1 |
| 4/30/2015 9:35:41 | 53.81 | 47.71 | 861 | 1.15 | 0.16 | 47.1 |
| 4/30/2015 9:35:41 | 54.13 | 48.03 | 861 | 1.17 | 0.16 | 47.1 |
| 4/30/2015 9:35:41 | 54.46 | 48.36 | 856 | 1.16 | 0.16 | 46.8 |
| 4/30/2015 9:35:42 | 54.79 | 48.69 | 864 | 1.55 | 0.16 | 47.3 |
| 4/30/2015 9:35:54 | 55.12 | 49.02 | 100 | 1.11 | 0.76 | 5.4 |
| 4/30/2015 9:35:55 | 55.45 | 49.35 | 245 | 0.43 | 0.97 | 13.4 |
| 4/30/2015 9:35:56 | 55.77 | 49.67 | 265 | 2.01 | 1.56 | 14.5 |
| 4/30/2015 9:36:00 | 56.10 | 50.00 | 104 | 1.09 | 1.17 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:36:03 | 56.43 | 50.33 | 118 | 1.13 | 1.17 | 6.5 |
| 4/30/2015 | 9:36:05 | 56.76 | 50.66 | 145 | 1.14 | 1.12 | 7.9 |
| 4/30/2015 | 9:36:08 | 57.09 | 50.99 | 127 | 1.19 | 1.14 | 7.0 |
| 4/30/2015 | 9:36:11 | 57.41 | 51.31 | 118 | 1.13 | 1.20 | 6.5 |
| 4/30/2015 | 9:36:13 | 57.74 | 51.64 | 158 | 1.11 | 1.16 | 8.6 |
| 4/30/2015 | 9:36:18 | 58.07 | 51.97 | 81 | 1.13 | 1.16 | 4.4 |
| 4/30/2015 | 9:36:22 | 58.40 | 52.30 | 89 | 1.10 | 1.13 | 4.8 |
| 4/30/2015 | 9:36:25 | 58.73 | 52.63 | 111 | 1.11 | 1.13 | 6.1 |
| 4/30/2015 | 9:36:27 | 59.06 | 52.96 | 139 | 1.05 | 1.04 | 7.6 |
| 4/30/2015 | 9:36:34 | 59.38 | 53.28 | 55 | 1.11 | 1.24 | 3.0 |
| 4/30/2015 | 9:36:41 | 59.71 | 53.61 | 41 | 1.17 | 1.05 | 2.2 |
| 4/30/2015 | 9:36:49 | 60.04 | 53.94 | 43 | 1.08 | 1.01 | 2.4 |
| 4/30/2015 | 9:36:53 | 60.20 | 54.10 | 46 | 1.29 | 1.00 | 2.5 |

## K135 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:33:35

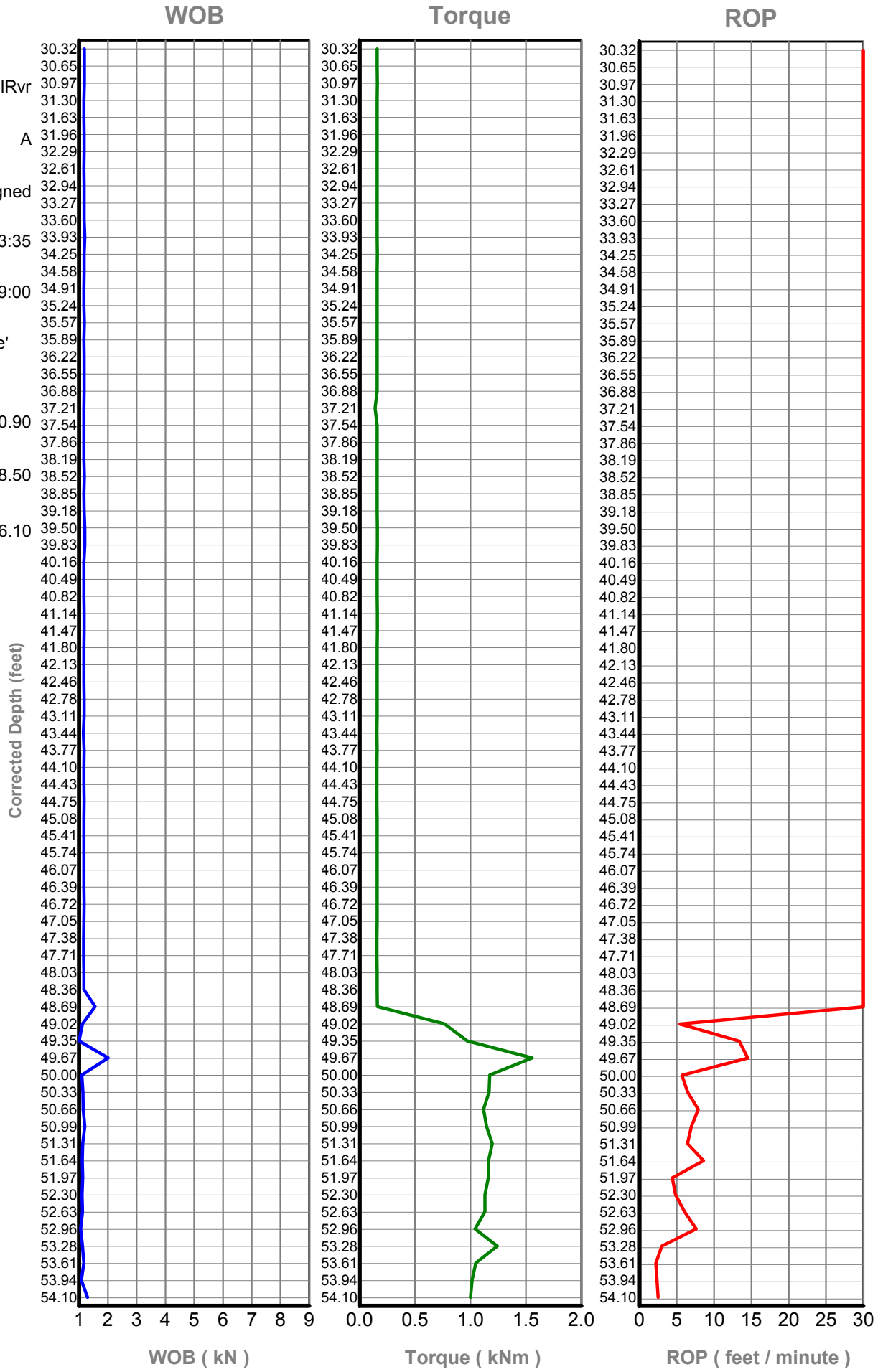
**End Date:**
4/30/2015 9:39:00

**Operator Note:**
'6.1 5.9 a Auto Complete'

**Northing:**
361,290.90

**Easting:**
244,358.50

**Tide (feet):**
6.10



## Hole: K136 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:51:22 | 36.42 | 30.22 | 906 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:51:22 | 36.75 | 30.55 | 895 | 1.16 | 0.15 | 48.9 |
| 4/30/2015 9:51:22 | 37.07 | 30.87 | 878 | 1.16 | 0.15 | 48.0 |
| 4/30/2015 9:51:23 | 37.40 | 31.20 | 878 | 1.16 | 0.15 | 48.0 |
| 4/30/2015 9:51:23 | 37.73 | 31.53 | 906 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:51:24 | 38.06 | 31.86 | 906 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:51:24 | 38.39 | 32.19 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 9:51:24 | 38.71 | 32.51 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 9:51:25 | 39.04 | 32.84 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 9:51:25 | 39.37 | 33.17 | 907 | 1.15 | 0.15 | 49.6 |
| 4/30/2015 9:51:26 | 39.70 | 33.50 | 924 | 1.16 | 0.15 | 50.5 |
| 4/30/2015 9:51:26 | 40.03 | 33.83 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:51:27 | 40.35 | 34.15 | 914 | 1.16 | 0.15 | 50.0 |
| 4/30/2015 9:51:27 | 40.68 | 34.48 | 914 | 1.16 | 0.15 | 50.0 |
| 4/30/2015 9:51:27 | 41.01 | 34.81 | 908 | 1.16 | 0.15 | 49.6 |
| 4/30/2015 9:51:28 | 41.34 | 35.14 | 905 | 1.17 | 0.15 | 49.5 |
| 4/30/2015 9:51:28 | 41.67 | 35.47 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:51:29 | 41.99 | 35.79 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:51:29 | 42.32 | 36.12 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:51:29 | 42.65 | 36.45 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 9:51:30 | 42.98 | 36.78 | 899 | 1.16 | 0.15 | 49.2 |
| 4/30/2015 9:51:30 | 43.31 | 37.11 | 899 | 1.16 | 0.15 | 49.2 |
| 4/30/2015 9:51:30 | 43.64 | 37.44 | 893 | 1.15 | 0.15 | 48.9 |
| 4/30/2015 9:51:31 | 43.96 | 37.76 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 9:51:31 | 44.29 | 38.09 | 899 | 1.18 | 0.15 | 49.2 |
| 4/30/2015 9:51:32 | 44.62 | 38.42 | 899 | 1.18 | 0.15 | 49.2 |
| 4/30/2015 9:51:32 | 44.95 | 38.75 | 902 | 1.17 | 0.15 | 49.3 |
| 4/30/2015 9:51:32 | 45.28 | 39.08 | 899 | 1.17 | 0.15 | 49.2 |
| 4/30/2015 9:51:33 | 45.60 | 39.40 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:51:33 | 45.93 | 39.73 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:51:33 | 46.26 | 40.06 | 899 | 1.16 | 0.15 | 49.2 |
| 4/30/2015 9:51:34 | 46.59 | 40.39 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:51:34 | 46.92 | 40.72 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 9:51:35 | 47.24 | 41.04 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:51:36 | 47.57 | 41.37 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:51:36 | 47.90 | 41.70 | 882 | 1.17 | 0.15 | 48.2 |
| 4/30/2015 9:51:36 | 48.23 | 42.03 | 882 | 1.17 | 0.15 | 48.2 |
| 4/30/2015 9:51:37 | 48.56 | 42.36 | 886 | 1.15 | 0.15 | 48.5 |
| 4/30/2015 9:51:37 | 48.88 | 42.68 | 886 | 1.15 | 0.15 | 48.5 |
| 4/30/2015 9:51:37 | 49.21 | 43.01 | 894 | 1.18 | 0.15 | 48.9 |
| 4/30/2015 9:51:38 | 49.54 | 43.34 | 886 | 1.16 | 0.15 | 48.5 |
| 4/30/2015 9:51:38 | 49.87 | 43.67 | 891 | 1.16 | 0.15 | 48.7 |
| 4/30/2015 9:51:39 | 50.20 | 44.00 | 891 | 1.16 | 0.15 | 48.7 |
| 4/30/2015 9:51:39 | 50.53 | 44.33 | 906 | 1.17 | 0.15 | 49.5 |
| 4/30/2015 9:51:39 | 50.85 | 44.65 | 896 | 1.17 | 0.15 | 49.0 |
| 4/30/2015 9:51:40 | 51.18 | 44.98 | 893 | 1.16 | 0.15 | 48.8 |
| 4/30/2015 9:51:40 | 51.51 | 45.31 | 893 | 1.16 | 0.15 | 48.8 |
| 4/30/2015 9:51:41 | 51.84 | 45.64 | 893 | 1.16 | 0.15 | 48.8 |
| 4/30/2015 9:51:41 | 52.17 | 45.97 | 885 | 1.17 | 0.15 | 48.4 |
| 4/30/2015 9:51:41 | 52.49 | 46.29 | 893 | 1.17 | 0.15 | 48.9 |
| 4/30/2015 9:51:42 | 52.82 | 46.62 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 9:51:42 | 53.15 | 46.95 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 9:51:42 | 53.48 | 47.28 | 883 | 1.17 | 0.15 | 48.3 |
| 4/30/2015 9:51:43 | 53.81 | 47.61 | 883 | 1.18 | 0.15 | 48.3 |
| 4/30/2015 9:51:43 | 54.13 | 47.93 | 885 | 1.27 | 0.15 | 48.4 |
| 4/30/2015 9:51:51 | 54.46 | 48.26 | 38 | 1.21 | 0.83 | 2.1 |
| 4/30/2015 9:51:52 | 54.79 | 48.59 | 121 | 1.16 | 0.92 | 6.6 |
| 4/30/2015 9:51:54 | 55.12 | 48.92 | 156 | 1.17 | 0.74 | 8.5 |
| 4/30/2015 9:51:55 | 55.45 | 49.25 | 279 | 1.17 | 0.92 | 15.2 |
| 4/30/2015 9:51:57 | 55.77 | 49.57 | 347 | 1.19 | 1.09 | 19.0 |
| 4/30/2015 9:52:03 | 56.10 | 49.90 | 52 | 1.15 | 1.18 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:52:11 | 56.43 | 50.23 | 43 | 1.09 | 0.93 | 2.4 |
| 4/30/2015 | 9:52:20 | 56.76 | 50.56 | 38 | 1.19 | 0.98 | 2.1 |
| 4/30/2015 | 9:52:30 | 57.09 | 50.89 | 29 | 1.11 | 0.87 | 1.6 |
| 4/30/2015 | 9:52:37 | 57.28 | 51.08 | 30 | 1.16 | 0.99 | 1.7 |

## K136 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/30/2015 9:49:41

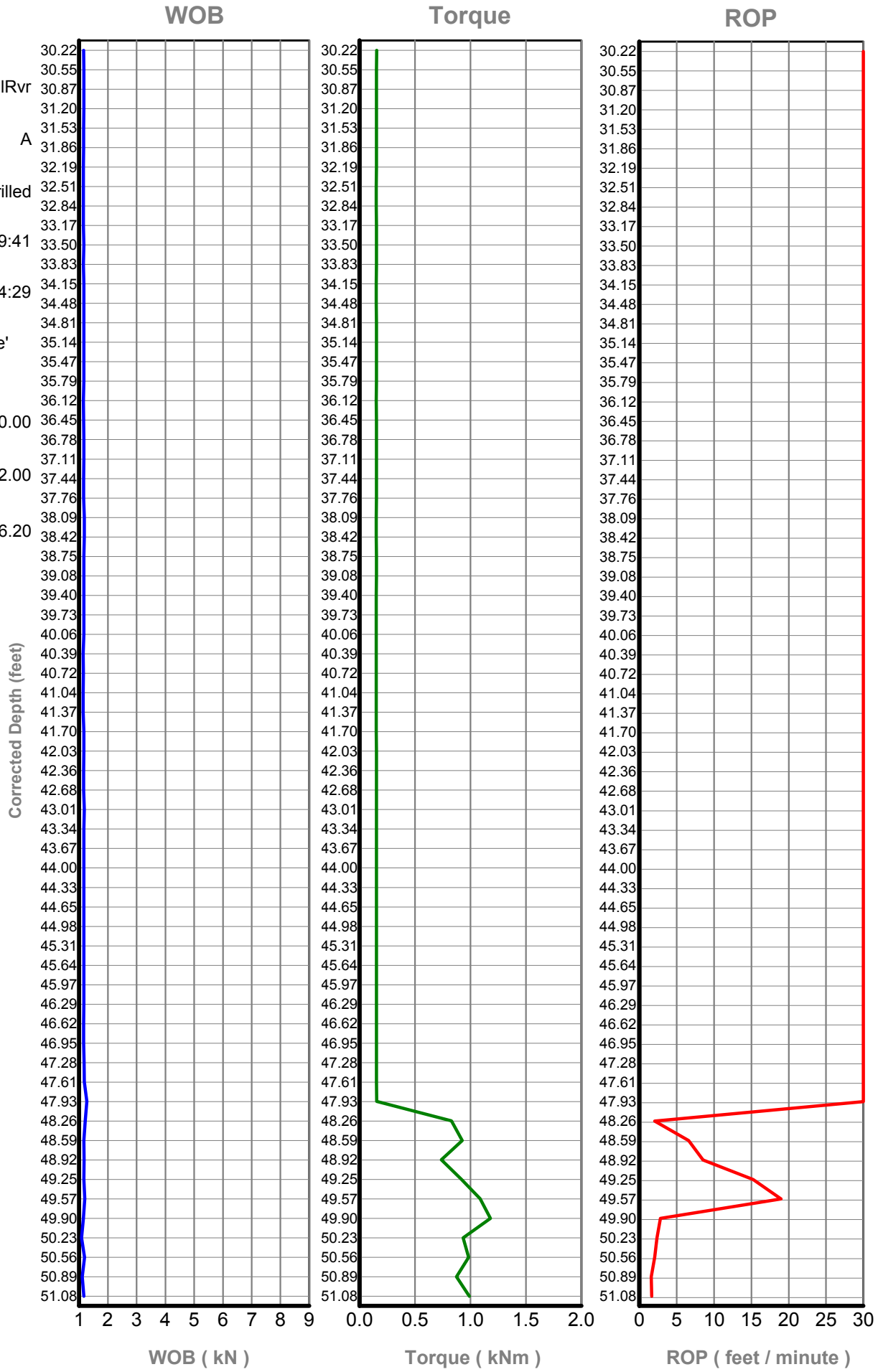
**End Date:**
4/30/2015 9:54:29

**Operator Note:**
'6.2 6.1 a Auto Complete'

**Northing:**
361,340.00

**Easting:**
244,422.00

**Tide (feet):**
6.20



## Hole: K137 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:32:17 | 35.76 | 30.26 | 934 | 1.12 | 0.14 | 51.1 |
| 4/30/2015 12:32:17 | 36.09 | 30.59 | 931 | 1.11 | 0.14 | 50.9 |
| 4/30/2015 12:32:18 | 36.42 | 30.92 | 928 | 1.09 | 0.14 | 50.7 |
| 4/30/2015 12:32:18 | 36.75 | 31.25 | 928 | 1.09 | 0.14 | 50.7 |
| 4/30/2015 12:32:18 | 37.07 | 31.57 | 931 | 1.09 | 0.14 | 50.9 |
| 4/30/2015 12:32:19 | 37.40 | 31.90 | 939 | 1.10 | 0.14 | 51.4 |
| 4/30/2015 12:32:19 | 37.73 | 32.23 | 931 | 1.11 | 0.14 | 50.9 |
| 4/30/2015 12:32:20 | 38.06 | 32.56 | 931 | 1.11 | 0.14 | 50.9 |
| 4/30/2015 12:32:20 | 38.39 | 32.89 | 934 | 1.11 | 0.14 | 51.1 |
| 4/30/2015 12:32:20 | 38.71 | 33.21 | 923 | 1.12 | 0.14 | 50.5 |
| 4/30/2015 12:32:21 | 39.04 | 33.54 | 938 | 1.11 | 0.14 | 51.3 |
| 4/30/2015 12:32:21 | 39.37 | 33.87 | 938 | 1.11 | 0.14 | 51.3 |
| 4/30/2015 12:32:21 | 39.70 | 34.20 | 919 | 1.11 | 0.14 | 50.2 |
| 4/30/2015 12:32:22 | 40.03 | 34.53 | 919 | 1.10 | 0.14 | 50.2 |
| 4/30/2015 12:32:22 | 40.35 | 34.85 | 927 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:32:23 | 40.68 | 35.18 | 927 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:32:23 | 41.01 | 35.51 | 924 | 1.12 | 0.14 | 50.5 |
| 4/30/2015 12:32:23 | 41.34 | 35.84 | 935 | 1.09 | 0.14 | 51.1 |
| 4/30/2015 12:32:24 | 41.67 | 36.17 | 935 | 1.09 | 0.14 | 51.1 |
| 4/30/2015 12:32:24 | 41.99 | 36.49 | 905 | 1.11 | 0.14 | 49.5 |
| 4/30/2015 12:32:24 | 42.32 | 36.82 | 915 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 12:32:25 | 42.65 | 37.15 | 915 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 12:32:25 | 42.98 | 37.48 | 915 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 12:32:26 | 43.31 | 37.81 | 918 | 1.10 | 0.14 | 50.2 |
| 4/30/2015 12:32:26 | 43.64 | 38.14 | 913 | 1.10 | 0.14 | 49.9 |
| 4/30/2015 12:32:27 | 43.96 | 38.46 | 902 | 1.11 | 0.14 | 49.3 |
| 4/30/2015 12:32:27 | 44.29 | 38.79 | 902 | 1.11 | 0.14 | 49.3 |
| 4/30/2015 12:32:27 | 44.62 | 39.12 | 902 | 1.12 | 0.14 | 49.3 |
| 4/30/2015 12:32:28 | 44.95 | 39.45 | 922 | 1.09 | 0.14 | 50.4 |
| 4/30/2015 12:32:28 | 45.28 | 39.78 | 927 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:32:29 | 45.60 | 40.10 | 927 | 1.11 | 0.14 | 50.7 |
| 4/30/2015 12:32:29 | 45.93 | 40.43 | 913 | 1.11 | 0.14 | 49.9 |
| 4/30/2015 12:32:29 | 46.26 | 40.76 | 918 | 1.12 | 0.14 | 50.2 |
| 4/30/2015 12:32:30 | 46.59 | 41.09 | 929 | 1.11 | 0.14 | 50.8 |
| 4/30/2015 12:32:30 | 46.92 | 41.42 | 929 | 1.11 | 0.14 | 50.8 |
| 4/30/2015 12:32:30 | 47.24 | 41.74 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:32:31 | 47.57 | 42.07 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 12:32:31 | 47.90 | 42.40 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:32:32 | 48.23 | 42.73 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:32:32 | 48.56 | 43.06 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 12:32:32 | 48.88 | 43.38 | 916 | 1.10 | 0.14 | 50.1 |
| 4/30/2015 12:32:33 | 49.21 | 43.71 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 12:32:33 | 49.54 | 44.04 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 12:32:33 | 49.87 | 44.37 | 919 | 1.10 | 0.14 | 50.3 |
| 4/30/2015 12:32:34 | 50.20 | 44.70 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:32:34 | 50.53 | 45.03 | 919 | 1.12 | 0.14 | 50.3 |
| 4/30/2015 12:32:35 | 50.85 | 45.35 | 919 | 1.12 | 0.14 | 50.3 |
| 4/30/2015 12:32:35 | 51.18 | 45.68 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 12:32:35 | 51.51 | 46.01 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 12:32:36 | 51.84 | 46.34 | 914 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 12:32:37 | 52.17 | 46.67 | 914 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 12:32:37 | 52.49 | 46.99 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 12:32:37 | 52.82 | 47.32 | 903 | 1.11 | 0.14 | 49.4 |
| 4/30/2015 12:32:38 | 53.15 | 47.65 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 12:32:38 | 53.48 | 47.98 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 12:32:44 | 53.81 | 48.31 | 43 | 1.14 | 0.93 | 2.3 |
| 4/30/2015 12:32:47 | 54.13 | 48.63 | 122 | 1.13 | 1.20 | 6.7 |
| 4/30/2015 12:32:53 | 54.46 | 48.96 | 78 | 1.11 | 1.04 | 4.3 |
| 4/30/2015 12:33:00 | 54.79 | 49.29 | 35 | 1.06 | 0.98 | 1.9 |
| 4/30/2015 12:33:13 | 55.12 | 49.62 | 23 | 1.13 | 0.85 | 1.3 |
| 4/30/2015 12:33:26 | 55.45 | 49.95 | 29 | 1.09 | 1.03 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:33:37 | 55.77 | 50.27 | 38 | 1.11 | 0.92 | 2.1 |
| 4/30/2015 | 12:33:41 | 55.89 | 50.39 | 32 | 1.16 | 0.86 | 1.7 |

## K137 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:30:37

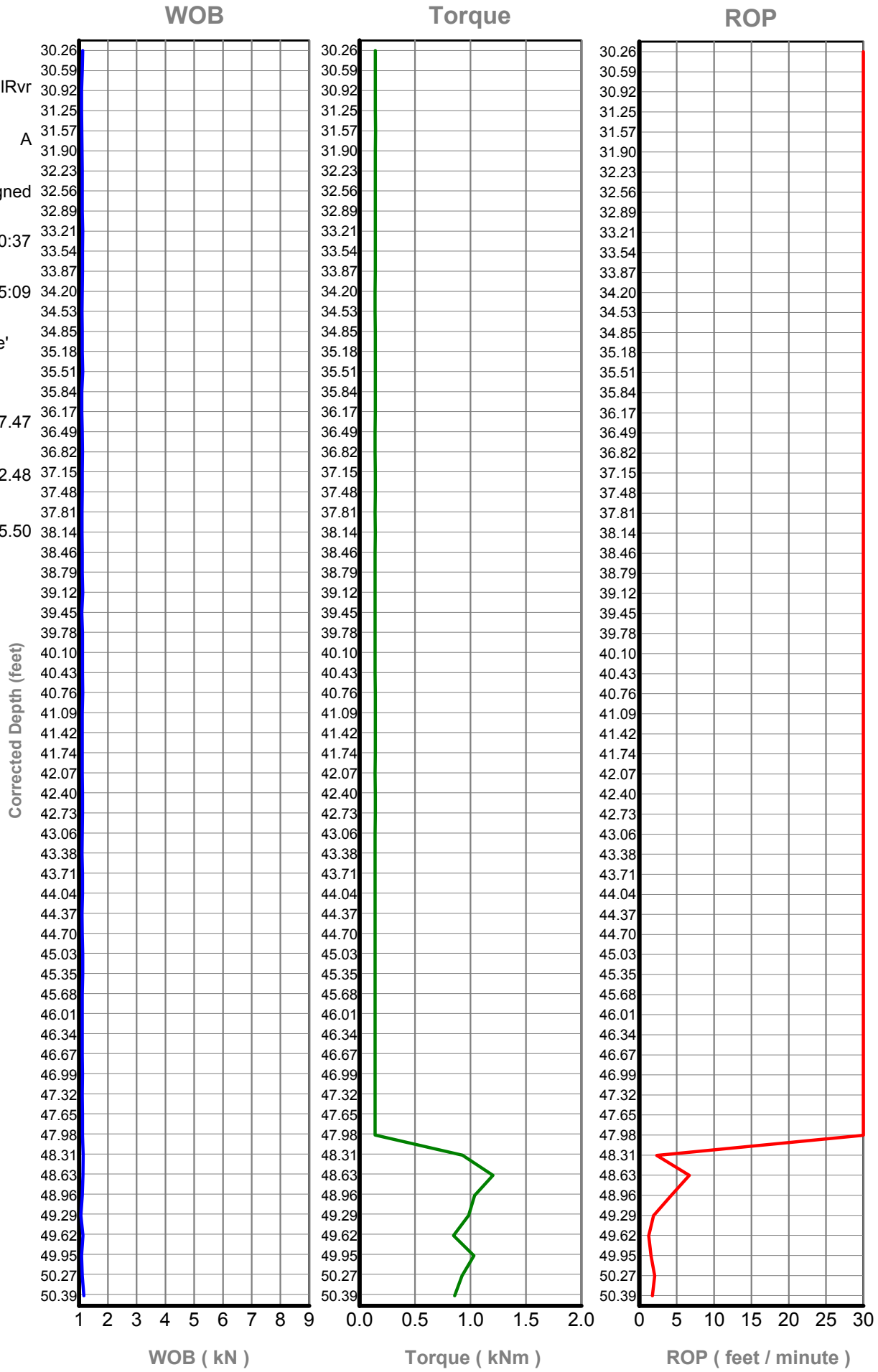
**End Date:**
4/30/2015 12:35:09

**Operator Note:**
'5.5 5.7 a Auto Complete'

**Northing:**
361,387.47

**Easting:**
244,482.48

**Tide (feet):**
5.50



## Hole: K138 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:31:40 | 35.76 | 30.26 | 1,190 | 0.25 | 0.38 | 65.1 |
| 4/30/2015 12:31:40 | 36.09 | 30.59 | 1,190 | 0.25 | 0.38 | 65.1 |
| 4/30/2015 12:31:40 | 36.42 | 30.92 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:31:41 | 36.75 | 31.25 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:31:41 | 37.07 | 31.57 | 1,188 | 0.50 | 0.37 | 65.0 |
| 4/30/2015 12:31:41 | 37.40 | 31.90 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 12:31:42 | 37.73 | 32.23 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 12:31:42 | 38.06 | 32.56 | 1,206 | 0.29 | 0.36 | 66.0 |
| 4/30/2015 12:31:42 | 38.39 | 32.89 | 1,206 | 0.29 | 0.36 | 66.0 |
| 4/30/2015 12:31:42 | 38.71 | 33.21 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:31:43 | 39.04 | 33.54 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:31:43 | 39.37 | 33.87 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 12:31:43 | 39.70 | 34.20 | 1,189 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 12:31:44 | 40.03 | 34.53 | 1,189 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 12:31:44 | 40.35 | 34.85 | 1,217 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 12:31:44 | 40.68 | 35.18 | 1,217 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 12:31:44 | 41.01 | 35.51 | 1,204 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:31:45 | 41.34 | 35.84 | 1,204 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:31:45 | 41.67 | 36.17 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 12:31:45 | 41.99 | 36.49 | 1,206 | 0.24 | 0.38 | 66.0 |
| 4/30/2015 12:31:46 | 42.32 | 36.82 | 1,206 | 0.24 | 0.38 | 66.0 |
| 4/30/2015 12:31:46 | 42.65 | 37.15 | 1,213 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 12:31:47 | 42.98 | 37.48 | 1,213 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 12:31:47 | 43.31 | 37.81 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 12:31:47 | 43.64 | 38.14 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 12:31:47 | 43.96 | 38.46 | 1,200 | 0.29 | 0.43 | 65.6 |
| 4/30/2015 12:31:48 | 44.29 | 38.79 | 1,195 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 12:31:48 | 44.62 | 39.12 | 1,195 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 12:31:48 | 44.95 | 39.45 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:31:49 | 45.28 | 39.78 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:31:49 | 45.60 | 40.10 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 12:31:49 | 45.93 | 40.43 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 12:31:49 | 46.26 | 40.76 | 1,203 | 0.29 | 0.36 | 65.8 |
| 4/30/2015 12:31:50 | 46.59 | 41.09 | 1,205 | 0.29 | 0.36 | 65.9 |
| 4/30/2015 12:31:50 | 46.92 | 41.42 | 1,205 | 0.29 | 0.36 | 65.9 |
| 4/30/2015 12:31:50 | 47.24 | 41.74 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 12:31:51 | 47.57 | 42.07 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 12:31:51 | 47.90 | 42.40 | 1,201 | 0.29 | 0.36 | 65.7 |
| 4/30/2015 12:31:51 | 48.23 | 42.73 | 1,201 | 0.29 | 0.36 | 65.7 |
| 4/30/2015 12:31:51 | 48.56 | 43.06 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 12:31:52 | 48.88 | 43.38 | 1,195 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:31:52 | 49.21 | 43.71 | 1,195 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:31:52 | 49.54 | 44.04 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:31:53 | 49.87 | 44.37 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:31:53 | 50.20 | 44.70 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 12:31:53 | 50.53 | 45.03 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 12:31:53 | 50.85 | 45.35 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:31:54 | 51.18 | 45.68 | 1,191 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 12:31:54 | 51.51 | 46.01 | 1,191 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 12:31:54 | 51.84 | 46.34 | 1,203 | 0.28 | 0.41 | 65.8 |
| 4/30/2015 12:32:02 | 52.17 | 46.67 | 0 | 2.31 | 0.44 | 0.0 |
| 4/30/2015 12:32:12 | 52.49 | 46.99 | 69 | 2.88 | 0.47 | 3.8 |
| 4/30/2015 12:32:18 | 52.82 | 47.32 | 65 | 2.82 | 0.47 | 3.6 |
| 4/30/2015 12:32:24 | 53.15 | 47.65 | 62 | 3.65 | 0.48 | 3.4 |
| 4/30/2015 12:32:29 | 53.48 | 47.98 | 84 | 3.49 | 0.47 | 4.6 |
| 4/30/2015 12:32:31 | 53.81 | 48.31 | 142 | 3.40 | 0.47 | 7.8 |
| 4/30/2015 12:32:35 | 54.13 | 48.63 | 78 | 2.80 | 0.46 | 4.3 |
| 4/30/2015 12:32:43 | 54.46 | 48.96 | 40 | 2.62 | 0.47 | 2.2 |
| 4/30/2015 12:32:52 | 54.79 | 49.29 | 40 | 2.64 | 0.47 | 2.2 |
| 4/30/2015 12:32:58 | 55.12 | 49.62 | 64 | 3.24 | 0.46 | 3.5 |
| 4/30/2015 12:33:04 | 55.45 | 49.95 | 51 | 2.70 | 0.47 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:33:10 | 55.77 | 50.27 | 69 | 2.91 | 0.47 | 3.8 |
| 4/30/2015 | 12:33:18 | 56.10 | 50.60 | 43 | 2.87 | 0.46 | 2.4 |
| 4/30/2015 | 12:33:25 | 56.43 | 50.93 | 46 | 2.78 | 0.47 | 2.5 |

## K138 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:29:23

**End Date:**
4/30/2015 12:34:20

**Operator Note:**
'5.5 5.7 b Rock'

**Northing:**
361,435.70

**Easting:**
244,539.63

**Tide (feet):**
5.50



## Hole: K139 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:32:09 | 35.76 | 30.26 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:10 | 36.09 | 30.59 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:10 | 36.42 | 30.92 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:10 | 36.75 | 31.25 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:10 | 37.07 | 31.57 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:11 | 37.40 | 31.90 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:11 | 37.73 | 32.23 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:11 | 38.06 | 32.56 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:32:12 | 38.39 | 32.89 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:12 | 38.71 | 33.21 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:12 | 39.04 | 33.54 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:13 | 39.37 | 33.87 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:13 | 39.70 | 34.20 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:13 | 40.03 | 34.53 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:14 | 40.35 | 34.85 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:14 | 40.68 | 35.18 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:14 | 41.01 | 35.51 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:32:15 | 41.34 | 35.84 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:32:15 | 41.67 | 36.17 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:32:15 | 41.99 | 36.49 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:32:15 | 42.32 | 36.82 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 12:32:16 | 42.65 | 37.15 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:17 | 42.98 | 37.48 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:32:17 | 43.31 | 37.81 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:32:17 | 43.64 | 38.14 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:32:18 | 43.96 | 38.46 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:32:18 | 44.29 | 38.79 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:32:18 | 44.62 | 39.12 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:32:19 | 44.95 | 39.45 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:32:19 | 45.28 | 39.78 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:32:19 | 45.60 | 40.10 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:32:19 | 45.93 | 40.43 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:32:20 | 46.26 | 40.76 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:20 | 46.59 | 41.09 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:20 | 46.92 | 41.42 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:21 | 47.24 | 41.74 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:32:21 | 47.57 | 42.07 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:32:21 | 47.90 | 42.40 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:32:22 | 48.23 | 42.73 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:32:22 | 48.56 | 43.06 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:32:22 | 48.88 | 43.38 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:32:44 | 49.21 | 43.71 | 82 | 1.14 | 0.29 | 4.5 |
| 4/30/2015 12:32:49 | 49.54 | 44.04 | 90 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 12:32:53 | 49.87 | 44.37 | 89 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 12:32:59 | 50.20 | 44.70 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:33:06 | 50.53 | 45.03 | 54 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:33:10 | 50.85 | 45.35 | 90 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 12:33:18 | 51.18 | 45.68 | 53 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:33:24 | 51.51 | 46.01 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 12:33:27 | 51.84 | 46.34 | 119 | 1.14 | 0.29 | 6.5 |
| 4/30/2015 12:33:31 | 52.17 | 46.67 | 87 | 1.14 | 0.29 | 4.8 |
| 4/30/2015 12:33:36 | 52.49 | 46.99 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 12:33:42 | 52.82 | 47.32 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 12:33:46 | 53.15 | 47.65 | 69 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 12:33:52 | 53.48 | 47.98 | 67 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 12:33:55 | 53.71 | 48.21 | 66 | 1.14 | 0.29 | 3.6 |

## K139 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:30:45

**End Date:**
4/30/2015 12:35:26

**Operator Note:**
'5.5 5.7 c Auto Complete'

**Northing:**
361,483.92

**Easting:**
244,597.07

**Tide (feet):**
5.50



## Hole: K14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:52:31 | 33.79 | 30.19 | 1,316 | 1.87 | 0.23 | 72.0 |
| 4/30/2015 1:52:31 | 34.12 | 30.52 | 1,316 | 1.87 | 0.23 | 72.0 |
| 4/30/2015 1:52:31 | 34.45 | 30.85 | 1,330 | 1.88 | 0.23 | 72.7 |
| 4/30/2015 1:52:32 | 34.78 | 31.18 | 1,330 | 1.88 | 0.23 | 72.7 |
| 4/30/2015 1:52:32 | 35.11 | 31.51 | 1,324 | 1.89 | 0.23 | 72.4 |
| 4/30/2015 1:52:32 | 35.43 | 31.83 | 1,324 | 1.89 | 0.23 | 72.4 |
| 4/30/2015 1:52:32 | 35.76 | 32.16 | 1,321 | 1.86 | 0.23 | 72.2 |
| 4/30/2015 1:52:33 | 36.09 | 32.49 | 1,321 | 1.86 | 0.23 | 72.2 |
| 4/30/2015 1:52:33 | 36.42 | 32.82 | 1,321 | 1.94 | 0.23 | 72.2 |
| 4/30/2015 1:52:34 | 36.75 | 33.15 | 1,321 | 1.94 | 0.23 | 72.2 |
| 4/30/2015 1:52:47 | 37.07 | 33.47 | 43 | 1.11 | 0.94 | 2.3 |
| 4/30/2015 1:52:47 | 37.40 | 33.80 | 149 | 0.56 | 0.73 | 8.1 |
| 4/30/2015 1:52:53 | 37.73 | 34.13 | 103 | 1.10 | 1.62 | 5.6 |
| 4/30/2015 1:52:55 | 38.06 | 34.46 | 259 | 1.14 | 1.21 | 14.1 |
| 4/30/2015 1:52:58 | 38.39 | 34.79 | 118 | 1.02 | 1.46 | 6.5 |
| 4/30/2015 1:52:59 | 38.71 | 35.11 | 197 | 1.22 | 1.19 | 10.8 |
| 4/30/2015 1:53:01 | 39.04 | 35.44 | 199 | 1.12 | 1.27 | 10.9 |
| 4/30/2015 1:53:15 | 39.37 | 35.77 | 0 | 1.07 | 1.48 | 0.0 |
| 4/30/2015 1:53:20 | 39.70 | 36.10 | 104 | 1.05 | 1.23 | 5.7 |
| 4/30/2015 1:53:22 | 40.03 | 36.43 | 136 | 1.06 | 1.20 | 7.4 |
| 4/30/2015 1:53:44 | 40.35 | 36.75 | 35 | 1.09 | 0.87 | 1.9 |
| 4/30/2015 1:53:53 | 40.68 | 37.08 | 38 | 1.07 | 0.94 | 2.1 |
| 4/30/2015 1:53:59 | 41.01 | 37.41 | 64 | 1.10 | 0.96 | 3.5 |
| 4/30/2015 1:54:05 | 41.34 | 37.74 | 61 | 1.02 | 1.18 | 3.3 |
| 4/30/2015 1:54:12 | 41.67 | 38.07 | 46 | 1.06 | 1.05 | 2.5 |
| 4/30/2015 1:54:18 | 41.95 | 38.35 | 58 | 1.09 | 1.05 | 3.2 |

## K14 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:49:38

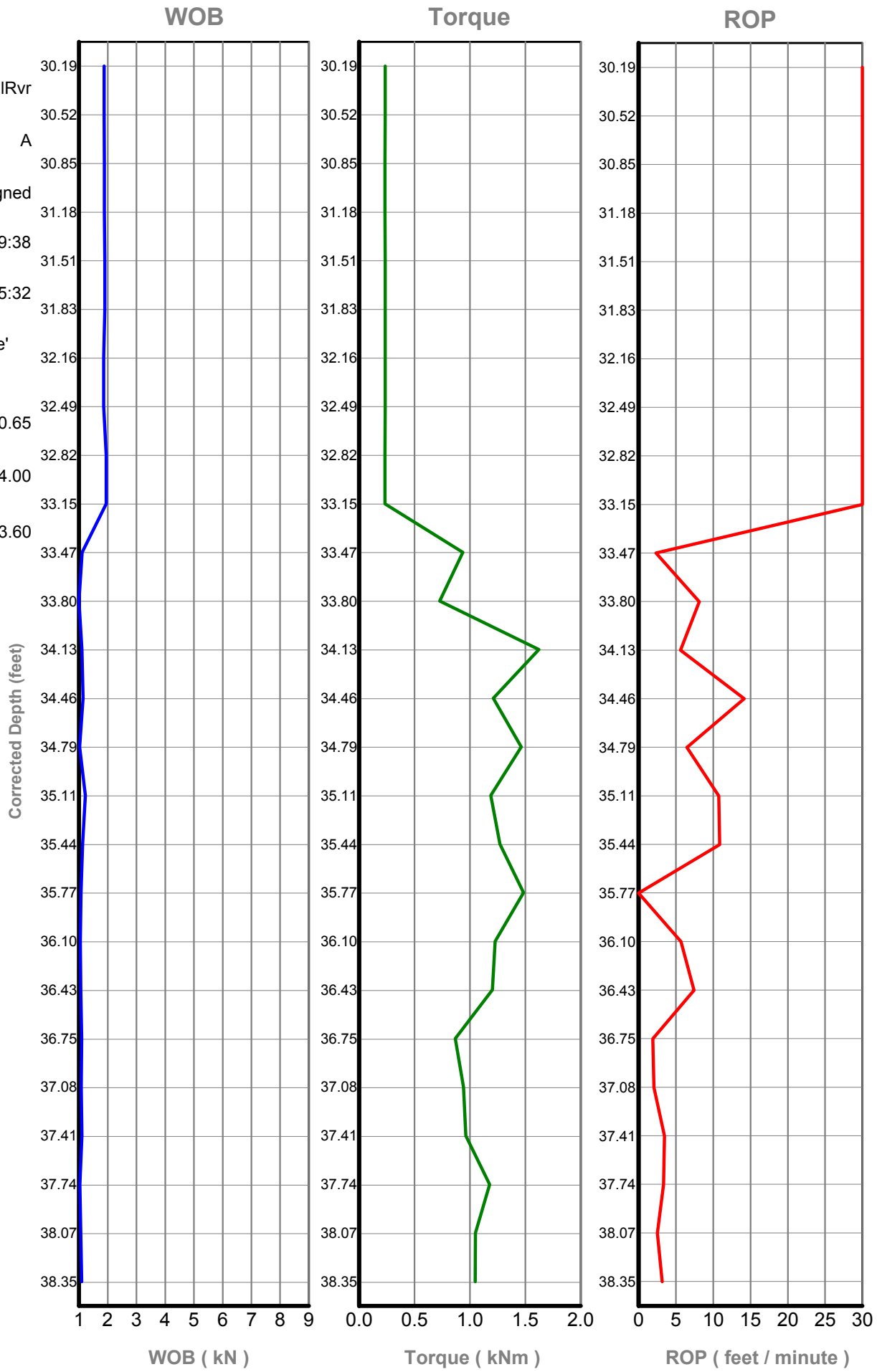
**End Date:**
4/30/2015 1:55:32

**Operator Note:**
'3.6 3.6 b Auto Complete'

**Northing:**
362,440.65

**Easting:**
245,064.00

**Tide (feet):**
3.60



## Hole: K140 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:31:14 | 32.81 | 30.31 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 14:31:15 | 33.14 | 30.64 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 14:31:15 | 33.46 | 30.96 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 14:31:15 | 33.79 | 31.29 | 1,178 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 14:31:16 | 34.12 | 31.62 | 1,178 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 14:31:16 | 34.45 | 31.95 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 14:31:16 | 34.78 | 32.28 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 14:31:16 | 35.11 | 32.61 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 14:31:17 | 35.43 | 32.93 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 14:31:17 | 35.76 | 33.26 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 14:31:17 | 36.09 | 33.59 | 1,168 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:18 | 36.42 | 33.92 | 1,168 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:18 | 36.75 | 34.25 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:18 | 37.07 | 34.57 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:18 | 37.40 | 34.90 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 14:31:19 | 37.73 | 35.23 | 1,175 | 1.14 | 0.29 | 64.2 |
| 4/29/2015 14:31:19 | 38.06 | 35.56 | 1,175 | 1.14 | 0.29 | 64.2 |
| 4/29/2015 14:31:19 | 38.39 | 35.89 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 14:31:20 | 38.71 | 36.21 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 14:31:20 | 39.04 | 36.54 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:20 | 39.37 | 36.87 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 14:31:21 | 39.70 | 37.20 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 14:31:21 | 40.03 | 37.53 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:21 | 40.35 | 37.85 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:21 | 40.68 | 38.18 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:22 | 41.01 | 38.51 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:22 | 41.34 | 38.84 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 14:31:22 | 41.67 | 39.17 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:23 | 41.99 | 39.49 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 14:31:23 | 42.32 | 39.82 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:31:23 | 42.65 | 40.15 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:31:23 | 42.98 | 40.48 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:31:24 | 43.31 | 40.81 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:31:25 | 43.64 | 41.14 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:31:25 | 43.96 | 41.46 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:31:25 | 44.29 | 41.79 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:31:25 | 44.62 | 42.12 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:31:26 | 44.95 | 42.45 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:31:26 | 45.28 | 42.78 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:31:26 | 45.60 | 43.10 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 14:31:27 | 45.93 | 43.43 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 14:31:27 | 46.26 | 43.76 | 1,154 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 14:31:27 | 46.59 | 44.09 | 1,145 | 1.14 | 0.29 | 62.6 |
| 4/29/2015 14:31:43 | 46.92 | 44.42 | 58 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 14:31:48 | 47.24 | 44.74 | 67 | 1.14 | 0.29 | 3.6 |
| 4/29/2015 14:31:56 | 47.57 | 45.07 | 44 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 14:32:04 | 47.90 | 45.40 | 44 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 14:32:10 | 48.23 | 45.73 | 55 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 14:32:17 | 48.56 | 46.06 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 14:32:22 | 48.87 | 46.37 | 67 | 1.14 | 0.29 | 3.7 |

## K140 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 14:29:58

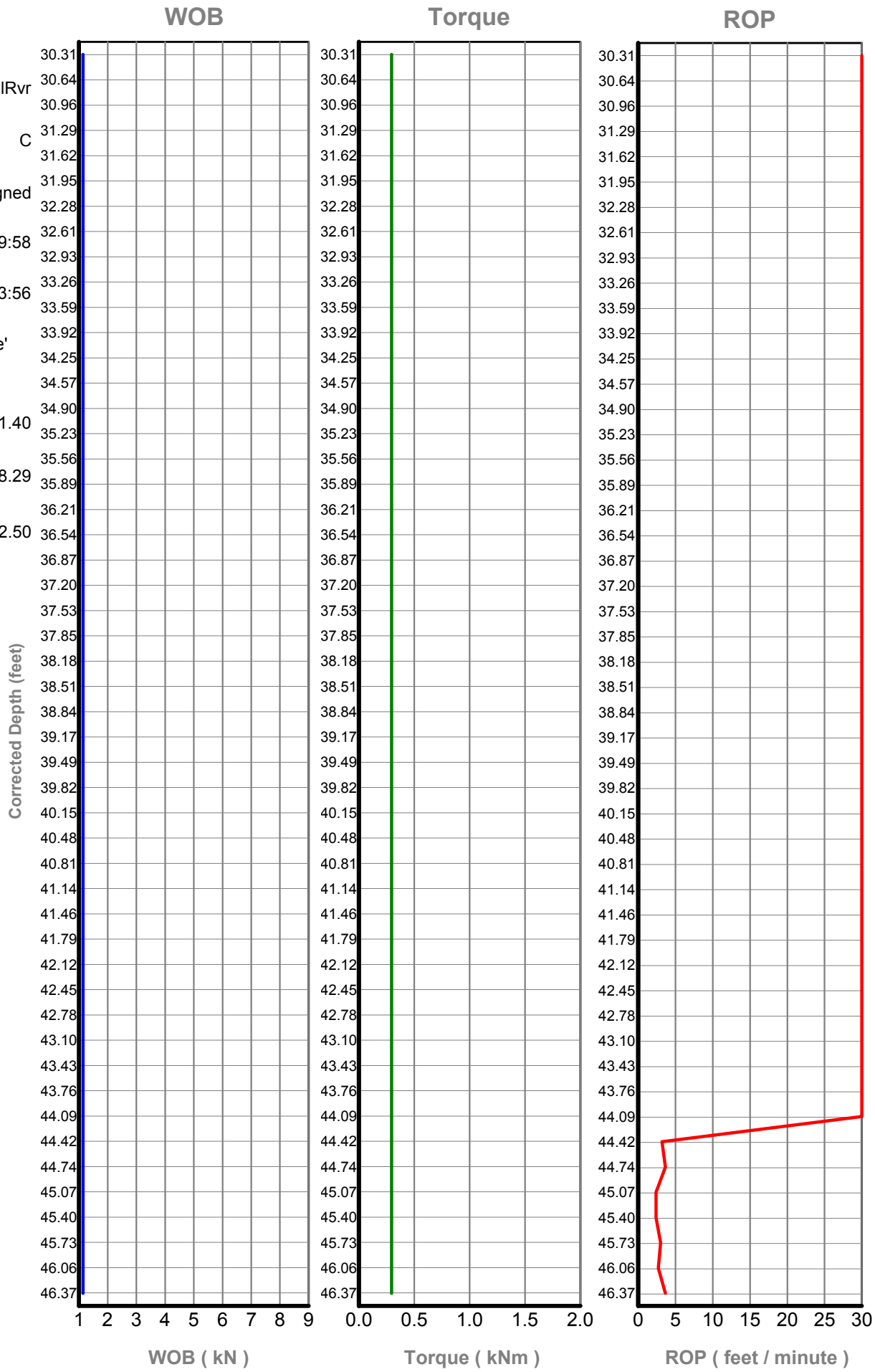
**End Date:**
4/29/2015 14:33:56

**Operator Note:**
'2.5 2.8 c Auto Complete'

**Northing:**
361,511.40

**Easting:**
244,668.29

**Tide (feet):**
2.50



## Hole: K141 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:18:16 | 32.81 | 30.21 | 1,159 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:17 | 33.14 | 30.54 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 14:18:17 | 33.46 | 30.86 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 14:18:17 | 33.79 | 31.19 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:18:18 | 34.12 | 31.52 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:18:18 | 34.45 | 31.85 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:18 | 34.78 | 32.18 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:19 | 35.11 | 32.51 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:19 | 35.43 | 32.83 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:19 | 35.76 | 33.16 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:19 | 36.09 | 33.49 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 14:18:20 | 36.42 | 33.82 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:20 | 36.75 | 34.15 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:20 | 37.07 | 34.47 | 1,160 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:18:21 | 37.40 | 34.80 | 1,160 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:18:21 | 37.73 | 35.13 | 1,153 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 14:18:21 | 38.06 | 35.46 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:22 | 38.39 | 35.79 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 14:18:22 | 38.71 | 36.11 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:22 | 39.04 | 36.44 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:22 | 39.37 | 36.77 | 1,157 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:23 | 39.70 | 37.10 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:18:23 | 40.03 | 37.43 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 14:18:23 | 40.35 | 37.75 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:24 | 40.68 | 38.08 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:24 | 41.01 | 38.41 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:25 | 41.34 | 38.74 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:25 | 41.67 | 39.07 | 1,160 | 1.14 | 0.29 | 63.4 |
| 4/29/2015 14:18:25 | 41.99 | 39.39 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:26 | 42.32 | 39.72 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 14:18:26 | 42.65 | 40.05 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:18:26 | 42.98 | 40.38 | 1,152 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 14:18:27 | 43.31 | 40.71 | 1,152 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 14:18:27 | 43.64 | 41.04 | 1,151 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 14:18:27 | 43.96 | 41.36 | 1,151 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 14:18:27 | 44.29 | 41.69 | 1,149 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:18:28 | 44.62 | 42.02 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:18:28 | 44.95 | 42.35 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:18:28 | 45.28 | 42.68 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:18:29 | 45.60 | 43.00 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/29/2015 14:19:22 | 45.93 | 43.33 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 14:19:25 | 46.26 | 43.66 | 133 | 1.14 | 0.29 | 7.3 |
| 4/29/2015 14:19:27 | 46.59 | 43.99 | 177 | 1.14 | 0.29 | 9.7 |
| 4/29/2015 14:19:29 | 46.92 | 44.32 | 139 | 1.14 | 0.29 | 7.6 |
| 4/29/2015 14:19:31 | 47.24 | 44.64 | 158 | 1.14 | 0.29 | 8.6 |
| 4/29/2015 14:19:34 | 47.57 | 44.97 | 160 | 1.14 | 0.29 | 8.7 |
| 4/29/2015 14:19:37 | 47.90 | 45.30 | 145 | 1.14 | 0.29 | 7.9 |
| 4/29/2015 14:20:00 | 48.23 | 45.63 | 40 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 14:20:06 | 48.56 | 45.96 | 47 | 1.14 | 0.29 | 2.5 |
| 4/29/2015 14:20:15 | 48.88 | 46.28 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 14:20:24 | 49.21 | 46.61 | 38 | 1.14 | 0.29 | 2.1 |
| 4/29/2015 14:20:33 | 49.54 | 46.94 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 14:20:41 | 49.87 | 47.27 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 14:20:45 | 50.04 | 47.44 | 44 | 1.14 | 0.29 | 2.4 |

## K141 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 14:17:18

**End Date:**
4/29/2015 14:22:02

**Operator Note:**
'2.6 3.0 c Auto Complete'

**Northing:**
361,567.38

**Easting:**
244,715.54

**Tide (feet):**
2.60



## Hole: K142 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:57:42 | 33.14 | 30.14 | 1,138 | 1.52 | 0.25 | 62.2 |
| 4/29/2015 13:57:42 | 33.46 | 30.46 | 1,136 | 1.53 | 0.25 | 62.1 |
| 4/29/2015 13:57:42 | 33.79 | 30.79 | 1,136 | 1.53 | 0.25 | 62.1 |
| 4/29/2015 13:57:42 | 34.12 | 31.12 | 1,145 | 1.52 | 0.25 | 62.6 |
| 4/29/2015 13:57:43 | 34.45 | 31.45 | 1,142 | 1.52 | 0.25 | 62.5 |
| 4/29/2015 13:57:43 | 34.78 | 31.78 | 1,142 | 1.52 | 0.25 | 62.5 |
| 4/29/2015 13:57:43 | 35.11 | 32.11 | 1,130 | 1.51 | 0.26 | 61.8 |
| 4/29/2015 13:57:44 | 35.43 | 32.43 | 1,130 | 1.51 | 0.26 | 61.8 |
| 4/29/2015 13:57:44 | 35.76 | 32.76 | 1,127 | 1.53 | 0.26 | 61.6 |
| 4/29/2015 13:57:44 | 36.09 | 33.09 | 1,139 | 1.53 | 0.25 | 62.3 |
| 4/29/2015 13:57:45 | 36.42 | 33.42 | 1,139 | 1.53 | 0.25 | 62.3 |
| 4/29/2015 13:57:45 | 36.75 | 33.75 | 1,133 | 1.51 | 0.25 | 62.0 |
| 4/29/2015 13:57:45 | 37.07 | 34.07 | 1,133 | 1.51 | 0.25 | 62.0 |
| 4/29/2015 13:57:45 | 37.40 | 34.40 | 1,133 | 1.55 | 0.25 | 62.0 |
| 4/29/2015 13:57:46 | 37.73 | 34.73 | 1,133 | 1.55 | 0.25 | 62.0 |
| 4/29/2015 13:57:46 | 38.06 | 35.06 | 1,133 | 1.55 | 0.25 | 62.0 |
| 4/29/2015 13:57:46 | 38.39 | 35.39 | 1,143 | 1.55 | 0.25 | 62.5 |
| 4/29/2015 13:57:47 | 38.71 | 35.71 | 1,143 | 1.55 | 0.25 | 62.5 |
| 4/29/2015 13:57:47 | 39.04 | 36.04 | 1,130 | 1.55 | 0.25 | 61.8 |
| 4/29/2015 13:57:47 | 39.37 | 36.37 | 1,130 | 1.55 | 0.25 | 61.8 |
| 4/29/2015 13:57:48 | 39.70 | 36.70 | 1,130 | 1.55 | 0.25 | 61.8 |
| 4/29/2015 13:57:48 | 40.03 | 37.03 | 1,133 | 1.55 | 0.25 | 62.0 |
| 4/29/2015 13:57:48 | 40.35 | 37.35 | 1,133 | 1.55 | 0.25 | 62.0 |
| 4/29/2015 13:57:48 | 40.68 | 37.68 | 1,136 | 1.53 | 0.25 | 62.1 |
| 4/29/2015 13:57:49 | 41.01 | 38.01 | 1,133 | 1.55 | 0.26 | 62.0 |
| 4/29/2015 13:57:50 | 41.34 | 38.34 | 1,133 | 1.55 | 0.26 | 62.0 |
| 4/29/2015 13:57:50 | 41.67 | 38.67 | 1,133 | 1.53 | 0.25 | 62.0 |
| 4/29/2015 13:57:50 | 41.99 | 38.99 | 1,124 | 1.53 | 0.26 | 61.4 |
| 4/29/2015 13:57:51 | 42.32 | 39.32 | 1,124 | 1.53 | 0.26 | 61.4 |
| 4/29/2015 13:57:51 | 42.65 | 39.65 | 1,130 | 1.53 | 0.25 | 61.8 |
| 4/29/2015 13:57:51 | 42.98 | 39.98 | 1,130 | 1.53 | 0.25 | 61.8 |
| 4/29/2015 13:57:51 | 43.31 | 40.31 | 1,127 | 1.54 | 0.26 | 61.7 |
| 4/29/2015 13:57:52 | 43.64 | 40.64 | 1,125 | 1.55 | 0.26 | 61.5 |
| 4/29/2015 13:57:52 | 43.96 | 40.96 | 1,125 | 1.55 | 0.26 | 61.5 |
| 4/29/2015 13:57:52 | 44.29 | 41.29 | 1,125 | 1.53 | 0.26 | 61.5 |
| 4/29/2015 13:57:53 | 44.62 | 41.62 | 1,125 | 1.53 | 0.26 | 61.5 |
| 4/29/2015 13:57:53 | 44.95 | 41.95 | 1,125 | 1.51 | 0.26 | 61.5 |
| 4/29/2015 13:57:53 | 45.28 | 42.28 | 1,122 | 1.53 | 0.26 | 61.3 |
| 4/29/2015 13:57:54 | 45.60 | 42.60 | 1,122 | 1.53 | 0.26 | 61.3 |
| 4/29/2015 13:58:09 | 45.93 | 42.93 | 0 | 1.65 | 0.94 | 0.0 |
| 4/29/2015 13:58:11 | 46.26 | 43.26 | 124 | 1.64 | 1.21 | 6.8 |
| 4/29/2015 13:58:11 | 46.59 | 43.59 | 238 | 1.60 | 1.08 | 13.0 |
| 4/29/2015 13:58:12 | 46.92 | 43.92 | 394 | 1.58 | 1.26 | 21.6 |
| 4/29/2015 13:58:15 | 47.24 | 44.24 | 104 | 1.65 | 1.30 | 5.7 |
| 4/29/2015 13:58:53 | 47.57 | 44.57 | 39 | 1.68 | 1.30 | 2.2 |
| 4/29/2015 13:58:55 | 47.90 | 44.90 | 156 | 1.61 | 1.46 | 8.5 |
| 4/29/2015 13:59:00 | 48.23 | 45.23 | 64 | 1.66 | 1.30 | 3.5 |
| 4/29/2015 13:59:05 | 48.56 | 45.56 | 78 | 1.64 | 1.28 | 4.3 |
| 4/29/2015 13:59:08 | 48.88 | 45.88 | 113 | 1.62 | 1.21 | 6.2 |
| 4/29/2015 13:59:10 | 49.21 | 46.21 | 140 | 1.59 | 1.35 | 7.7 |
| 4/29/2015 13:59:12 | 49.54 | 46.54 | 224 | 1.62 | 1.37 | 12.3 |
| 4/29/2015 13:59:14 | 49.87 | 46.87 | 171 | 1.62 | 1.42 | 9.3 |
| 4/29/2015 14:00:00 | 50.20 | 47.20 | 79 | 1.61 | 1.19 | 4.3 |
| 4/29/2015 14:00:06 | 50.53 | 47.53 | 40 | 1.68 | 1.35 | 2.2 |
| 4/29/2015 14:00:15 | 50.85 | 47.85 | 37 | 1.64 | 1.22 | 2.0 |
| 4/29/2015 14:00:24 | 51.18 | 48.18 | 52 | 1.67 | 1.19 | 2.8 |
| 4/29/2015 14:00:29 | 51.51 | 48.51 | 87 | 1.66 | 1.24 | 4.8 |
| 4/29/2015 14:00:38 | 51.84 | 48.84 | 35 | 1.68 | 1.16 | 1.9 |
| 4/29/2015 14:00:48 | 52.17 | 49.17 | 38 | 1.66 | 1.13 | 2.1 |
| 4/29/2015 14:00:57 | 52.49 | 49.49 | 37 | 1.68 | 1.20 | 2.0 |
| 4/29/2015 14:01:03 | 52.75 | 49.75 | 46 | 1.65 | 1.20 | 2.5 |

## K142 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:55:57

**End Date:**
4/29/2015 14:02:24

**Operator Note:**
'3 3.2 c Auto Complete'

**Northing:**
361,622.63

**Easting:**
244,763.75

**Tide (feet):**
3.00



## Hole: K143 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:20:56 | 35.76 | 30.16 | 943 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:20:56 | 36.09 | 30.49 | 943 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:20:56 | 36.42 | 30.82 | 948 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 11:20:57 | 36.75 | 31.15 | 945 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:20:57 | 37.07 | 31.47 | 945 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:20:57 | 37.40 | 31.80 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 11:20:58 | 37.73 | 32.13 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 11:20:58 | 38.06 | 32.46 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:20:59 | 38.39 | 32.79 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:20:59 | 38.71 | 33.11 | 975 | 1.05 | 0.13 | 53.3 |
| 4/29/2015 11:20:59 | 39.04 | 33.44 | 977 | 1.08 | 0.13 | 53.4 |
| 4/29/2015 11:21:00 | 39.37 | 33.77 | 972 | 1.07 | 0.13 | 53.1 |
| 4/29/2015 11:21:00 | 39.70 | 34.10 | 972 | 1.07 | 0.13 | 53.1 |
| 4/29/2015 11:21:01 | 40.03 | 34.43 | 977 | 1.06 | 0.13 | 53.4 |
| 4/29/2015 11:21:01 | 40.35 | 34.75 | 943 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:21:02 | 40.68 | 35.08 | 943 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:21:02 | 41.01 | 35.41 | 928 | 1.08 | 0.13 | 50.8 |
| 4/29/2015 11:21:02 | 41.34 | 35.74 | 928 | 1.07 | 0.13 | 50.8 |
| 4/29/2015 11:21:03 | 41.67 | 36.07 | 924 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 11:21:03 | 41.99 | 36.39 | 924 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 11:21:03 | 42.32 | 36.72 | 927 | 1.05 | 0.13 | 50.7 |
| 4/29/2015 11:21:04 | 42.65 | 37.05 | 927 | 1.07 | 0.13 | 50.7 |
| 4/29/2015 11:21:04 | 42.98 | 37.38 | 927 | 1.07 | 0.13 | 50.7 |
| 4/29/2015 11:21:04 | 43.31 | 37.71 | 926 | 1.07 | 0.13 | 50.6 |
| 4/29/2015 11:21:05 | 43.64 | 38.04 | 937 | 1.07 | 0.13 | 51.3 |
| 4/29/2015 11:21:05 | 43.96 | 38.36 | 937 | 1.07 | 0.13 | 51.3 |
| 4/29/2015 11:21:06 | 44.29 | 38.69 | 937 | 1.07 | 0.13 | 51.3 |
| 4/29/2015 11:21:06 | 44.62 | 39.02 | 952 | 1.06 | 0.13 | 52.1 |
| 4/29/2015 11:21:06 | 44.95 | 39.35 | 954 | 1.06 | 0.13 | 52.2 |
| 4/29/2015 11:21:07 | 45.28 | 39.68 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:21:07 | 45.60 | 40.00 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:21:07 | 45.93 | 40.33 | 946 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:21:08 | 46.26 | 40.66 | 943 | 1.09 | 0.13 | 51.5 |
| 4/29/2015 11:21:08 | 46.59 | 40.99 | 917 | 1.08 | 0.13 | 50.1 |
| 4/29/2015 11:21:09 | 46.92 | 41.32 | 917 | 1.08 | 0.13 | 50.1 |
| 4/29/2015 11:21:09 | 47.24 | 41.64 | 881 | 1.09 | 0.13 | 48.2 |
| 4/29/2015 11:21:09 | 47.57 | 41.97 | 869 | 1.36 | 0.13 | 47.5 |
| 4/29/2015 11:21:10 | 47.90 | 42.30 | 869 | 1.09 | 0.15 | 47.5 |
| 4/29/2015 11:21:10 | 48.23 | 42.63 | 853 | 1.09 | 0.13 | 46.6 |
| 4/29/2015 11:21:11 | 48.56 | 42.96 | 853 | 1.09 | 0.13 | 46.6 |
| 4/29/2015 11:21:11 | 48.88 | 43.28 | 852 | 1.10 | 0.13 | 46.6 |
| 4/29/2015 11:21:12 | 49.21 | 43.61 | 854 | 1.09 | 0.13 | 46.7 |
| 4/29/2015 11:21:12 | 49.54 | 43.94 | 846 | 1.10 | 0.13 | 46.3 |
| 4/29/2015 11:21:13 | 49.87 | 44.27 | 846 | 1.09 | 0.13 | 46.3 |
| 4/29/2015 11:21:13 | 50.20 | 44.60 | 841 | 1.19 | 0.13 | 46.0 |
| 4/29/2015 11:21:28 | 50.53 | 44.93 | 11 | 1.08 | 1.53 | 0.6 |
| 4/29/2015 11:21:31 | 50.85 | 45.25 | 108 | 1.06 | 0.98 | 5.9 |
| 4/29/2015 11:21:34 | 51.18 | 45.58 | 150 | 1.08 | 1.05 | 8.2 |
| 4/29/2015 11:21:40 | 51.51 | 45.91 | 52 | 1.04 | 1.08 | 2.8 |
| 4/29/2015 11:21:45 | 51.84 | 46.24 | 81 | 1.02 | 1.21 | 4.4 |
| 4/29/2015 11:21:48 | 52.17 | 46.57 | 141 | 1.00 | 0.86 | 7.7 |
| 4/29/2015 11:21:58 | 52.49 | 46.89 | 32 | 1.01 | 0.89 | 1.7 |
| 4/29/2015 11:22:04 | 52.82 | 47.22 | 61 | 1.03 | 1.08 | 3.3 |
| 4/29/2015 11:22:09 | 53.15 | 47.55 | 77 | 0.98 | 1.15 | 4.2 |
| 4/29/2015 11:22:14 | 53.48 | 47.88 | 71 | 1.00 | 1.09 | 3.9 |
| 4/29/2015 11:22:18 | 53.81 | 48.21 | 83 | 1.00 | 1.00 | 4.6 |
| 4/29/2015 11:22:22 | 54.13 | 48.53 | 81 | 1.05 | 1.02 | 4.4 |
| 4/29/2015 11:22:30 | 54.46 | 48.86 | 38 | 1.05 | 0.97 | 2.1 |
| 4/29/2015 11:22:35 | 54.79 | 49.19 | 81 | 1.00 | 1.14 | 4.4 |
| 4/29/2015 11:22:40 | 55.12 | 49.52 | 65 | 1.00 | 1.06 | 3.6 |
| 4/29/2015 11:22:49 | 55.45 | 49.85 | 41 | 1.06 | 0.92 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:22:53 | 55.59 | 49.99 | 32 | 0.65 | 0.96 | 1.7 |

## K143 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:19:24

**End Date:**
4/29/2015 11:24:55

**Operator Note:**
'5.6 5.8 a Auto Complete'

**Northing:**
361,876.90

**Easting:**
245,085.60

**Tide (feet):**
5.60



## Hole: K144 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:37:48 | 35.76 | 30.26 | 962 | 1.06 | 0.13 | 52.6 |
| 4/29/2015 11:37:48 | 36.09 | 30.59 | 962 | 1.06 | 0.13 | 52.6 |
| 4/29/2015 11:37:48 | 36.42 | 30.92 | 949 | 1.05 | 0.13 | 51.9 |
| 4/29/2015 11:37:49 | 36.75 | 31.25 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 11:37:49 | 37.07 | 31.57 | 916 | 1.06 | 0.13 | 50.1 |
| 4/29/2015 11:37:50 | 37.40 | 31.90 | 916 | 1.06 | 0.13 | 50.1 |
| 4/29/2015 11:37:50 | 37.73 | 32.23 | 916 | 1.05 | 0.13 | 50.1 |
| 4/29/2015 11:37:51 | 38.06 | 32.56 | 916 | 1.07 | 0.13 | 50.1 |
| 4/29/2015 11:37:51 | 38.39 | 32.89 | 916 | 1.07 | 0.13 | 50.1 |
| 4/29/2015 11:37:51 | 38.71 | 33.21 | 916 | 1.05 | 0.13 | 50.1 |
| 4/29/2015 11:37:52 | 39.04 | 33.54 | 924 | 1.05 | 0.13 | 50.5 |
| 4/29/2015 11:37:52 | 39.37 | 33.87 | 924 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 11:37:53 | 39.70 | 34.20 | 924 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 11:37:53 | 40.03 | 34.53 | 928 | 1.06 | 0.13 | 50.7 |
| 4/29/2015 11:37:53 | 40.35 | 34.85 | 928 | 1.07 | 0.13 | 50.7 |
| 4/29/2015 11:37:54 | 40.68 | 35.18 | 939 | 1.07 | 0.13 | 51.3 |
| 4/29/2015 11:37:54 | 41.01 | 35.51 | 939 | 1.07 | 0.13 | 51.3 |
| 4/29/2015 11:37:54 | 41.34 | 35.84 | 953 | 1.07 | 0.13 | 52.1 |
| 4/29/2015 11:37:55 | 41.67 | 36.17 | 953 | 1.09 | 0.13 | 52.1 |
| 4/29/2015 11:37:55 | 41.99 | 36.49 | 944 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:37:56 | 42.32 | 36.82 | 944 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 11:37:56 | 42.65 | 37.15 | 933 | 1.07 | 0.13 | 51.0 |
| 4/29/2015 11:37:56 | 42.98 | 37.48 | 933 | 1.09 | 0.13 | 51.0 |
| 4/29/2015 11:37:57 | 43.31 | 37.81 | 945 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:37:57 | 43.64 | 38.14 | 945 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:37:57 | 43.96 | 38.46 | 939 | 1.09 | 0.13 | 51.4 |
| 4/29/2015 11:37:58 | 44.29 | 38.79 | 928 | 1.07 | 0.13 | 50.8 |
| 4/29/2015 11:37:58 | 44.62 | 39.12 | 917 | 1.08 | 0.13 | 50.2 |
| 4/29/2015 11:37:59 | 44.95 | 39.45 | 917 | 1.08 | 0.13 | 50.2 |
| 4/29/2015 11:37:59 | 45.28 | 39.78 | 920 | 1.10 | 0.13 | 50.3 |
| 4/29/2015 11:37:59 | 45.60 | 40.10 | 885 | 1.09 | 0.13 | 48.4 |
| 4/29/2015 11:38:00 | 45.93 | 40.43 | 885 | 1.11 | 0.13 | 48.4 |
| 4/29/2015 11:38:01 | 46.26 | 40.76 | 885 | 1.11 | 0.13 | 48.4 |
| 4/29/2015 11:38:01 | 46.59 | 41.09 | 887 | 1.09 | 0.13 | 48.5 |
| 4/29/2015 11:38:01 | 46.92 | 41.42 | 878 | 1.06 | 0.13 | 48.0 |
| 4/29/2015 11:38:02 | 47.24 | 41.74 | 883 | 1.11 | 0.13 | 48.3 |
| 4/29/2015 11:38:02 | 47.57 | 42.07 | 866 | 1.09 | 0.13 | 47.4 |
| 4/29/2015 11:38:03 | 47.90 | 42.40 | 866 | 1.09 | 0.13 | 47.4 |
| 4/29/2015 11:38:03 | 48.23 | 42.73 | 877 | 1.07 | 0.13 | 48.0 |
| 4/29/2015 11:38:03 | 48.56 | 43.06 | 867 | 1.09 | 0.13 | 47.4 |
| 4/29/2015 11:38:04 | 48.88 | 43.38 | 864 | 1.09 | 0.13 | 47.3 |
| 4/29/2015 11:38:04 | 49.21 | 43.71 | 853 | 1.07 | 0.13 | 46.7 |
| 4/29/2015 11:38:05 | 49.54 | 44.04 | 853 | 1.07 | 0.13 | 46.7 |
| 4/29/2015 11:38:05 | 49.87 | 44.37 | 856 | 1.11 | 0.13 | 46.8 |
| 4/29/2015 11:38:05 | 50.20 | 44.70 | 852 | 1.08 | 0.13 | 46.6 |
| 4/29/2015 11:38:06 | 50.53 | 45.03 | 835 | 1.11 | 0.13 | 45.7 |
| 4/29/2015 11:38:14 | 50.85 | 45.35 | 9 | 1.08 | 0.87 | 0.5 |
| 4/29/2015 11:38:16 | 51.18 | 45.68 | 74 | 1.11 | 0.97 | 4.0 |
| 4/29/2015 11:38:21 | 51.51 | 46.01 | 40 | 1.11 | 1.12 | 2.2 |
| 4/29/2015 11:38:28 | 51.84 | 46.34 | 67 | 1.34 | 0.81 | 3.7 |
| 4/29/2015 11:38:31 | 52.17 | 46.67 | 79 | 1.05 | 1.22 | 4.3 |
| 4/29/2015 11:38:35 | 52.49 | 46.99 | 98 | 1.10 | 1.25 | 5.4 |
| 4/29/2015 11:38:39 | 52.82 | 47.32 | 72 | 1.07 | 1.06 | 4.0 |
| 4/29/2015 11:38:45 | 53.15 | 47.65 | 71 | 1.11 | 1.08 | 3.9 |
| 4/29/2015 11:38:49 | 53.48 | 47.98 | 79 | 1.07 | 1.11 | 4.3 |
| 4/29/2015 11:38:54 | 53.81 | 48.31 | 73 | 1.00 | 1.08 | 4.0 |
| 4/29/2015 11:39:01 | 54.13 | 48.63 | 26 | 1.08 | 0.88 | 1.4 |
| 4/29/2015 11:39:15 | 54.46 | 48.96 | 32 | 1.01 | 0.86 | 1.8 |
| 4/29/2015 11:39:23 | 54.79 | 49.29 | 43 | 1.03 | 0.96 | 2.4 |
| 4/29/2015 11:39:33 | 55.12 | 49.62 | 36 | 1.09 | 0.94 | 2.0 |
| 4/29/2015 11:39:39 | 55.32 | 49.82 | 37 | 1.10 | 1.12 | 2.0 |

## K144 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:36:16

**End Date:**
4/29/2015 11:41:39

**Operator Note:**
'5.5 5.7 a Auto Complete'

**Northing:**
361,925.19

**Easting:**
245,124.51

**Tide (feet):**
5.50



## Hole: K145 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:34:35 | 31.17 | 30.07 | 1,228 | 1.73 | 0.23 | 67.2 |
| 4/30/2015 4:34:35 | 31.50 | 30.40 | 1,228 | 1.73 | 0.23 | 67.2 |
| 4/30/2015 4:34:35 | 31.82 | 30.72 | 1,221 | 1.77 | 0.23 | 66.8 |
| 4/30/2015 4:34:36 | 32.15 | 31.05 | 1,221 | 1.77 | 0.23 | 66.8 |
| 4/30/2015 4:34:36 | 32.48 | 31.38 | 1,229 | 1.75 | 0.23 | 67.2 |
| 4/30/2015 4:34:37 | 32.81 | 31.71 | 1,226 | 1.77 | 0.23 | 67.0 |
| 4/30/2015 4:34:37 | 33.14 | 32.04 | 1,226 | 1.77 | 0.23 | 67.0 |
| 4/30/2015 4:34:37 | 33.46 | 32.36 | 1,226 | 1.76 | 0.23 | 67.0 |
| 4/30/2015 4:34:38 | 33.79 | 32.69 | 1,226 | 1.76 | 0.23 | 67.0 |
| 4/30/2015 4:34:38 | 34.12 | 33.02 | 1,223 | 1.75 | 0.23 | 66.9 |
| 4/30/2015 4:34:38 | 34.45 | 33.35 | 1,223 | 1.75 | 0.23 | 66.9 |
| 4/30/2015 4:34:38 | 34.78 | 33.68 | 1,229 | 1.76 | 0.23 | 67.2 |
| 4/30/2015 4:34:39 | 35.11 | 34.01 | 1,223 | 1.74 | 0.23 | 66.9 |
| 4/30/2015 4:34:39 | 35.43 | 34.33 | 1,223 | 1.74 | 0.23 | 66.9 |
| 4/30/2015 4:34:39 | 35.76 | 34.66 | 1,223 | 1.73 | 0.23 | 66.9 |
| 4/30/2015 4:34:40 | 36.09 | 34.99 | 1,223 | 1.73 | 0.23 | 66.9 |
| 4/30/2015 4:34:40 | 36.42 | 35.32 | 1,216 | 1.76 | 0.23 | 66.5 |
| 4/30/2015 4:34:40 | 36.75 | 35.65 | 1,216 | 1.76 | 0.23 | 66.5 |
| 4/30/2015 4:34:40 | 37.07 | 35.97 | 1,226 | 1.72 | 0.23 | 67.0 |
| 4/30/2015 4:34:41 | 37.40 | 36.30 | 1,226 | 1.72 | 0.23 | 67.0 |
| 4/30/2015 4:34:41 | 37.73 | 36.63 | 1,220 | 1.74 | 0.24 | 66.7 |
| 4/30/2015 4:34:41 | 38.06 | 36.96 | 1,220 | 1.57 | 0.25 | 66.7 |
| 4/30/2015 4:34:42 | 38.39 | 37.29 | 1,220 | 1.57 | 0.25 | 66.7 |
| 4/30/2015 4:34:42 | 38.71 | 37.61 | 1,208 | 1.45 | 0.25 | 66.1 |
| 4/30/2015 4:34:42 | 39.04 | 37.94 | 1,208 | 1.45 | 0.25 | 66.1 |
| 4/30/2015 4:34:42 | 39.37 | 38.27 | 1,168 | 1.39 | 0.25 | 63.9 |
| 4/30/2015 4:34:43 | 39.70 | 38.60 | 1,168 | 1.37 | 0.25 | 63.9 |
| 4/30/2015 4:34:43 | 40.03 | 38.93 | 1,106 | 1.36 | 0.25 | 60.5 |
| 4/30/2015 4:34:44 | 40.35 | 39.25 | 1,035 | 1.37 | 0.25 | 56.6 |
| 4/30/2015 4:34:44 | 40.68 | 39.58 | 1,035 | 1.37 | 0.25 | 56.6 |
| 4/30/2015 4:34:44 | 41.01 | 39.91 | 964 | 1.38 | 0.25 | 52.7 |
| 4/30/2015 4:34:45 | 41.34 | 40.24 | 904 | 1.95 | 0.24 | 49.4 |
| 4/30/2015 4:34:45 | 41.67 | 40.57 | 904 | 1.95 | 0.24 | 49.4 |
| 4/30/2015 4:34:45 | 41.99 | 40.89 | 917 | 1.81 | 0.23 | 50.1 |
| 4/30/2015 4:34:48 | 42.32 | 41.22 | 460 | 1.07 | 0.20 | 25.2 |
| 4/30/2015 4:34:48 | 42.65 | 41.55 | 337 | 1.06 | 0.19 | 18.4 |
| 4/30/2015 4:34:49 | 42.98 | 41.88 | 242 | 1.07 | 0.19 | 13.2 |
| 4/30/2015 4:34:49 | 43.31 | 42.21 | 389 | 1.07 | 0.19 | 21.3 |
| 4/30/2015 4:34:50 | 43.64 | 42.54 | 537 | 1.05 | 0.19 | 29.4 |
| 4/30/2015 4:34:50 | 43.96 | 42.86 | 675 | 1.09 | 0.19 | 36.9 |
| 4/30/2015 4:34:51 | 44.29 | 43.19 | 675 | 1.10 | 0.20 | 36.9 |
| 4/30/2015 4:34:51 | 44.62 | 43.52 | 675 | 1.10 | 0.20 | 36.9 |
| 4/30/2015 4:34:51 | 44.95 | 43.85 | 740 | 1.10 | 0.20 | 40.5 |
| 4/30/2015 4:34:52 | 45.28 | 44.18 | 737 | 1.10 | 0.20 | 40.3 |
| 4/30/2015 4:34:52 | 45.60 | 44.50 | 733 | 1.09 | 0.18 | 40.1 |
| 4/30/2015 4:35:01 | 45.93 | 44.83 | 29 | 1.11 | 1.41 | 1.6 |
| 4/30/2015 4:35:05 | 46.26 | 45.16 | 72 | 1.09 | 1.27 | 3.9 |
| 4/30/2015 4:35:11 | 46.59 | 45.49 | 92 | 1.08 | 1.15 | 5.0 |
| 4/30/2015 4:35:15 | 46.92 | 45.82 | 84 | 1.09 | 1.07 | 4.6 |
| 4/30/2015 4:35:18 | 47.24 | 46.14 | 122 | 1.07 | 1.23 | 6.7 |
| 4/30/2015 4:35:23 | 47.57 | 46.47 | 47 | 1.03 | 1.03 | 2.6 |
| 4/30/2015 4:35:29 | 47.90 | 46.80 | 61 | 1.08 | 1.10 | 3.3 |
| 4/30/2015 4:35:40 | 48.23 | 47.13 | 29 | 1.08 | 0.86 | 1.6 |
| 4/30/2015 4:35:49 | 48.56 | 47.46 | 32 | 1.06 | 0.89 | 1.7 |
| 4/30/2015 4:35:55 | 48.74 | 47.64 | 29 | 1.04 | 0.86 | 1.6 |

## K145 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:32:53

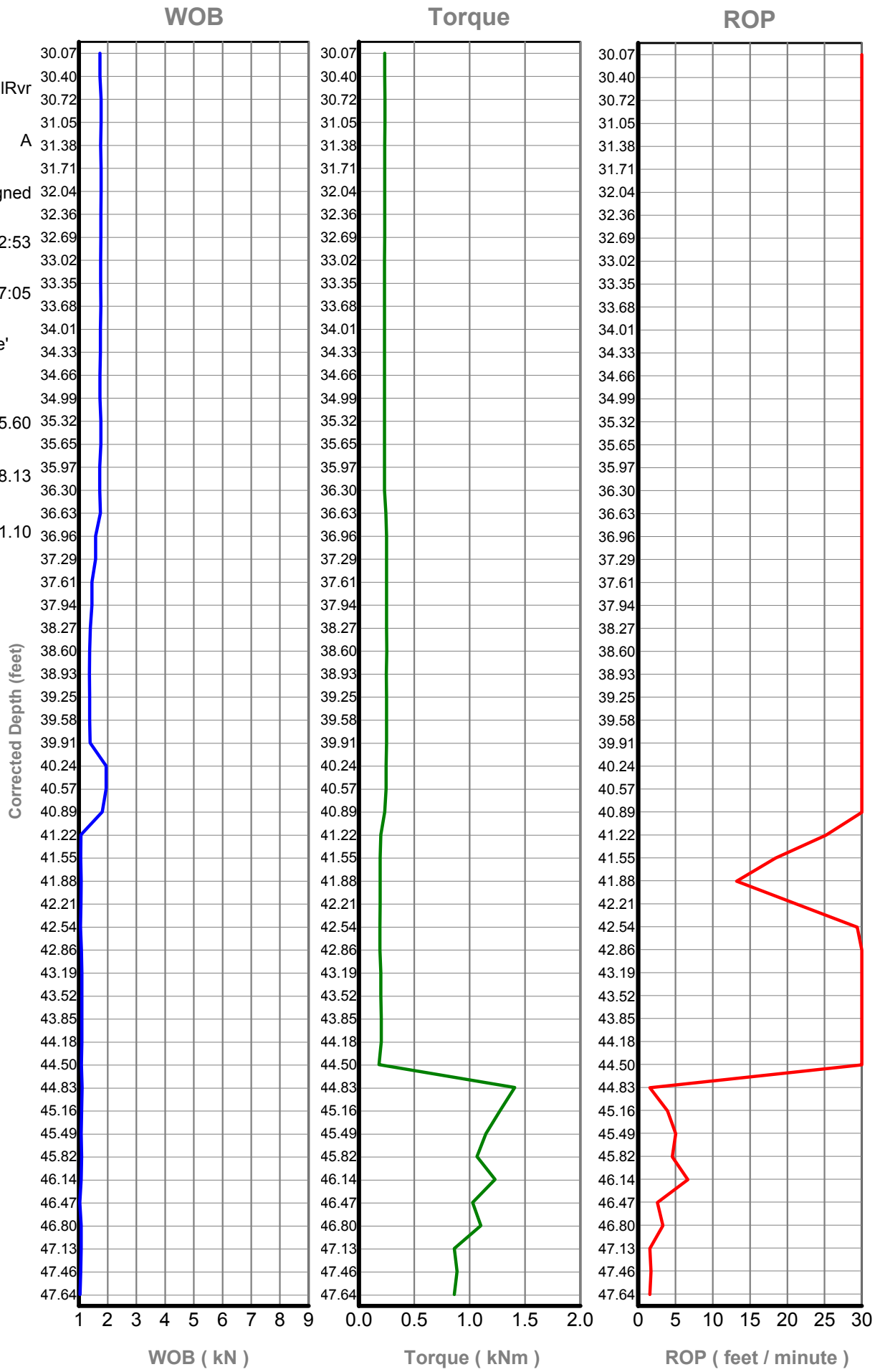
**End Date:**
4/30/2015 4:37:05

**Operator Note:**
'1.1 1.2 a Auto Complete'

**Northing:**
361,955.60

**Easting:**
245,178.13

**Tide (feet):**
1.10



## Hole: K146 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:35:28 | 31.17 | 30.17 | 1,072 | 0.35 | 0.39 | 58.6 |
| 4/30/2015 4:35:29 | 31.50 | 30.50 | 1,072 | 0.35 | 0.39 | 58.6 |
| 4/30/2015 4:35:29 | 31.82 | 30.82 | 1,078 | 0.34 | 0.39 | 58.9 |
| 4/30/2015 4:35:29 | 32.15 | 31.15 | 1,078 | 0.34 | 0.39 | 58.9 |
| 4/30/2015 4:35:30 | 32.48 | 31.48 | 1,078 | 0.34 | 0.39 | 58.9 |
| 4/30/2015 4:35:30 | 32.81 | 31.81 | 1,078 | 0.35 | 0.38 | 59.0 |
| 4/30/2015 4:35:31 | 33.14 | 32.14 | 1,068 | 0.34 | 0.39 | 58.4 |
| 4/30/2015 4:35:31 | 33.46 | 32.46 | 1,068 | 0.34 | 0.39 | 58.4 |
| 4/30/2015 4:35:31 | 33.79 | 32.79 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 4:35:32 | 34.12 | 33.12 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 4:35:32 | 34.45 | 33.45 | 1,051 | 0.34 | 0.39 | 57.5 |
| 4/30/2015 4:35:32 | 34.78 | 33.78 | 1,067 | 0.34 | 0.39 | 58.4 |
| 4/30/2015 4:35:33 | 35.11 | 34.11 | 1,067 | 0.34 | 0.39 | 58.4 |
| 4/30/2015 4:35:33 | 35.43 | 34.43 | 1,079 | 0.35 | 0.40 | 59.0 |
| 4/30/2015 4:35:33 | 35.76 | 34.76 | 1,074 | 0.34 | 0.39 | 58.7 |
| 4/30/2015 4:35:34 | 36.09 | 35.09 | 1,074 | 0.34 | 0.39 | 58.7 |
| 4/30/2015 4:35:34 | 36.42 | 35.42 | 1,070 | 0.34 | 0.39 | 58.5 |
| 4/30/2015 4:35:34 | 36.75 | 35.75 | 1,070 | 0.34 | 0.39 | 58.5 |
| 4/30/2015 4:35:34 | 37.07 | 36.07 | 1,094 | 0.34 | 0.39 | 59.9 |
| 4/30/2015 4:35:35 | 37.40 | 36.40 | 1,081 | 0.34 | 0.39 | 59.1 |
| 4/30/2015 4:35:35 | 37.73 | 36.73 | 1,081 | 0.34 | 0.39 | 59.1 |
| 4/30/2015 4:35:35 | 38.06 | 37.06 | 1,084 | 0.35 | 0.39 | 59.3 |
| 4/30/2015 4:35:36 | 38.39 | 37.39 | 1,081 | 0.37 | 0.39 | 59.1 |
| 4/30/2015 4:35:36 | 38.71 | 37.71 | 1,081 | 0.37 | 0.39 | 59.1 |
| 4/30/2015 4:35:36 | 39.04 | 38.04 | 1,087 | 0.34 | 0.39 | 59.4 |
| 4/30/2015 4:35:37 | 39.37 | 38.37 | 1,080 | 0.34 | 0.39 | 59.1 |
| 4/30/2015 4:35:37 | 39.70 | 38.70 | 1,080 | 0.34 | 0.39 | 59.1 |
| 4/30/2015 4:35:37 | 40.03 | 39.03 | 1,090 | 0.34 | 0.39 | 59.6 |
| 4/30/2015 4:35:38 | 40.35 | 39.35 | 1,090 | 0.34 | 0.39 | 59.6 |
| 4/30/2015 4:35:38 | 40.68 | 39.68 | 1,090 | 0.34 | 0.39 | 59.6 |
| 4/30/2015 4:35:38 | 41.01 | 40.01 | 1,096 | 0.34 | 0.39 | 59.9 |
| 4/30/2015 4:35:39 | 41.34 | 40.34 | 1,096 | 0.34 | 0.39 | 59.9 |
| 4/30/2015 4:35:39 | 41.67 | 40.67 | 1,087 | 0.34 | 0.39 | 59.4 |
| 4/30/2015 4:35:39 | 41.99 | 40.99 | 1,103 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 4:35:40 | 42.32 | 41.32 | 1,103 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 4:35:40 | 42.65 | 41.65 | 1,094 | 0.34 | 0.39 | 59.8 |
| 4/30/2015 4:35:40 | 42.98 | 41.98 | 1,094 | 0.34 | 0.39 | 59.8 |
| 4/30/2015 4:35:40 | 43.31 | 42.31 | 1,094 | 0.35 | 0.38 | 59.8 |
| 4/30/2015 4:35:41 | 43.64 | 42.64 | 1,091 | 0.35 | 0.39 | 59.6 |
| 4/30/2015 4:35:42 | 43.96 | 42.96 | 1,091 | 0.35 | 0.39 | 59.6 |
| 4/30/2015 4:35:42 | 44.29 | 43.29 | 1,102 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 4:35:42 | 44.62 | 43.62 | 1,093 | 0.34 | 0.39 | 59.7 |
| 4/30/2015 4:35:43 | 44.95 | 43.95 | 1,093 | 0.34 | 0.39 | 59.7 |
| 4/30/2015 4:35:43 | 45.28 | 44.28 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:35:43 | 45.60 | 44.60 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:35:53 | 45.93 | 44.93 | 42 | 3.25 | 0.47 | 2.3 |
| 4/30/2015 4:36:01 | 46.26 | 45.26 | 40 | 3.14 | 0.48 | 2.2 |
| 4/30/2015 4:36:09 | 46.59 | 45.59 | 40 | 3.41 | 0.47 | 2.2 |
| 4/30/2015 4:36:17 | 46.92 | 45.92 | 57 | 3.49 | 0.48 | 3.1 |
| 4/30/2015 4:36:18 | 47.04 | 46.04 | 68 | 4.55 | 0.48 | 3.7 |

## K146 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:34:00

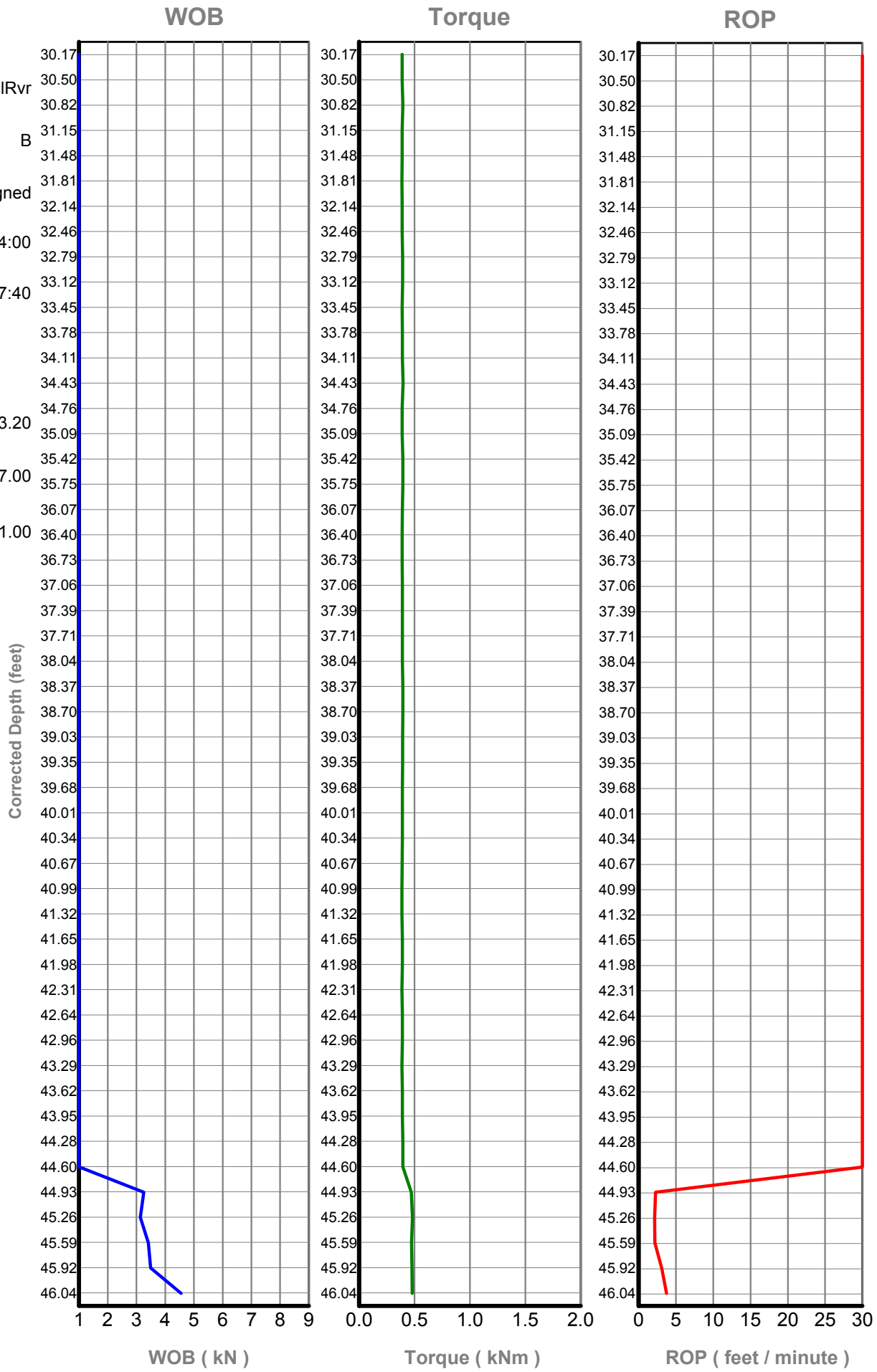
**End Date:**
4/30/2015 4:37:40

**Operator Note:**
'1 1.2b Auto Complete'

**Northing:**
362,003.20

**Easting:**
245,237.00

**Tide (feet):**
1.00



## Hole: K147 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:34:03 | 31.17 | 30.07 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:03 | 31.50 | 30.40 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:03 | 31.82 | 30.72 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:04 | 32.15 | 31.05 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:04 | 32.48 | 31.38 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:04 | 32.81 | 31.71 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:05 | 33.14 | 32.04 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:05 | 33.46 | 32.36 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:05 | 33.79 | 32.69 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:34:06 | 34.12 | 33.02 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:34:06 | 34.45 | 33.35 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:34:06 | 34.78 | 33.68 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:34:07 | 35.11 | 34.01 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:34:07 | 35.43 | 34.33 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:08 | 35.76 | 34.66 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 4:34:08 | 36.09 | 34.99 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 4:34:08 | 36.42 | 35.32 | 1,089 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:09 | 36.75 | 35.65 | 1,098 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:34:09 | 37.07 | 35.97 | 1,098 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:34:09 | 37.40 | 36.30 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:10 | 37.73 | 36.63 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:10 | 38.06 | 36.96 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:10 | 38.39 | 37.29 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:11 | 38.71 | 37.61 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:34:11 | 39.04 | 37.94 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:34:11 | 39.37 | 38.27 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:12 | 39.70 | 38.60 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:12 | 40.03 | 38.93 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:34:12 | 40.35 | 39.25 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:13 | 40.68 | 39.58 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:34:13 | 41.01 | 39.91 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:13 | 41.34 | 40.24 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:13 | 41.67 | 40.57 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:14 | 41.99 | 40.89 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:14 | 42.32 | 41.22 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:14 | 42.65 | 41.55 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:34:15 | 42.98 | 41.88 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:15 | 43.31 | 42.21 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:15 | 43.64 | 42.54 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 4:34:16 | 43.96 | 42.86 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:16 | 44.29 | 43.19 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:16 | 44.62 | 43.52 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 4:34:17 | 44.95 | 43.85 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:17 | 45.28 | 44.18 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 4:34:17 | 45.60 | 44.50 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:34:18 | 45.93 | 44.83 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:34:18 | 46.26 | 45.16 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 4:34:27 | 46.59 | 45.49 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:34:29 | 46.92 | 45.82 | 106 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 4:34:37 | 47.24 | 46.14 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:34:40 | 47.57 | 46.47 | 142 | 1.14 | 0.29 | 7.8 |
| 4/30/2015 4:34:43 | 47.90 | 46.80 | 113 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 4:34:46 | 48.23 | 47.13 | 100 | 1.14 | 0.29 | 5.5 |
| 4/30/2015 4:34:48 | 48.56 | 47.46 | 131 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 4:34:51 | 48.88 | 47.78 | 113 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 4:34:55 | 49.21 | 48.11 | 114 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 4:35:00 | 49.54 | 48.44 | 62 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 4:35:11 | 49.87 | 48.77 | 30 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 4:35:22 | 50.20 | 49.10 | 36 | 1.14 | 0.29 | 2.0 |
| 4/30/2015 4:35:31 | 50.53 | 49.43 | 40 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 4:35:36 | 50.73 | 49.63 | 44 | 1.14 | 0.29 | 2.4 |

## K147 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:33:05

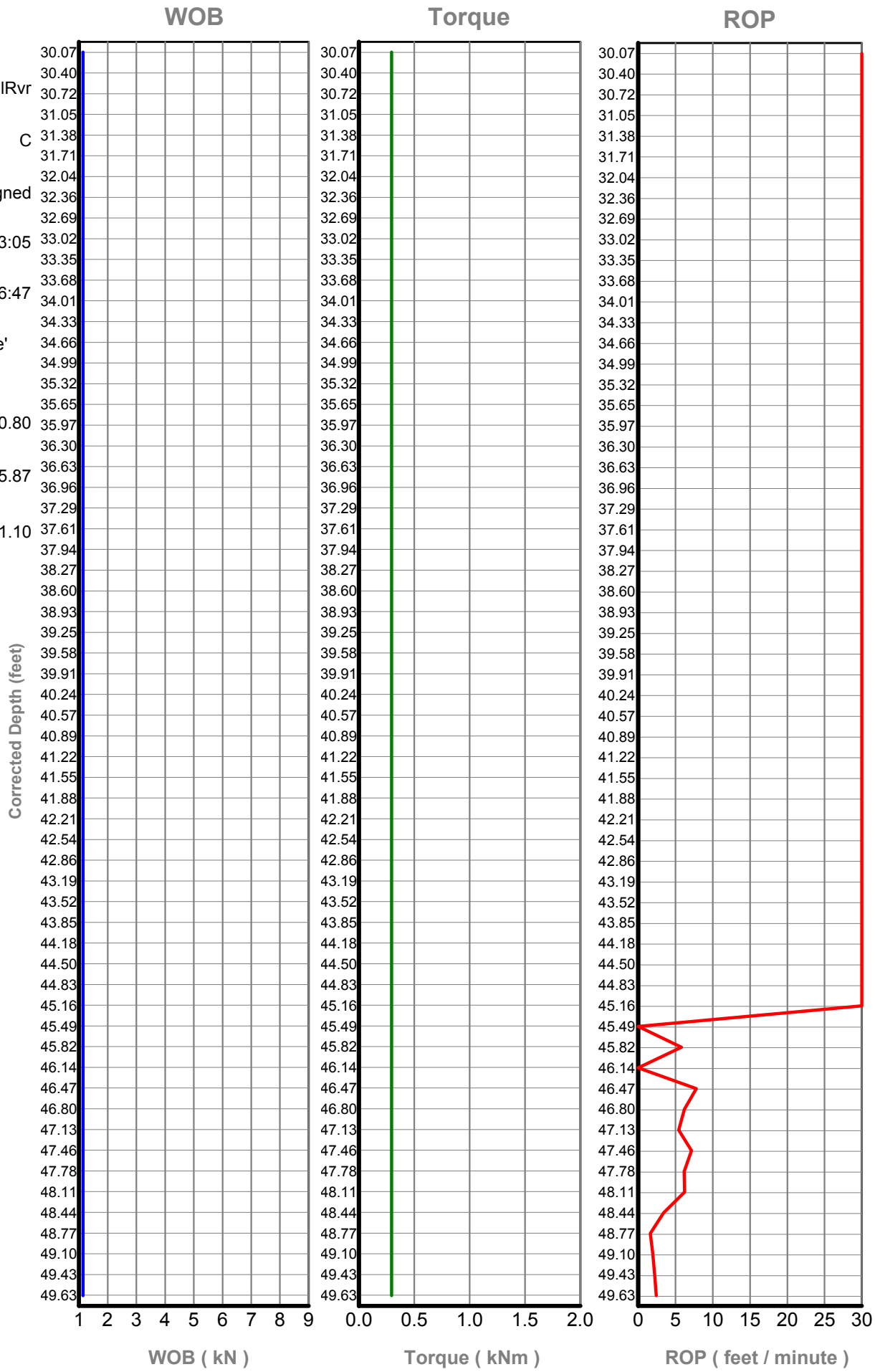
**End Date:**
4/30/2015 4:36:47

**Operator Note:**
'1.1 1.2 c Auto Complete'

**Northing:**
362,050.80

**Easting:**
245,295.87

**Tide (feet):**
1.10



## Hole: K148 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:11:41 | 32.48 | 30.18 | 1,333 | 1.76 | 0.22 | 72.9 |
| 4/30/2015 3:11:41 | 32.81 | 30.51 | 1,325 | 1.76 | 0.22 | 72.5 |
| 4/30/2015 3:11:42 | 33.14 | 30.84 | 1,325 | 1.76 | 0.22 | 72.5 |
| 4/30/2015 3:11:42 | 33.46 | 31.16 | 1,328 | 1.74 | 0.22 | 72.6 |
| 4/30/2015 3:11:42 | 33.79 | 31.49 | 1,328 | 1.74 | 0.22 | 72.6 |
| 4/30/2015 3:11:42 | 34.12 | 31.82 | 1,328 | 1.45 | 0.21 | 72.6 |
| 4/30/2015 3:11:43 | 34.45 | 32.15 | 1,328 | 1.45 | 0.21 | 72.6 |
| 4/30/2015 3:11:43 | 34.78 | 32.48 | 1,329 | 1.36 | 0.23 | 72.7 |
| 4/30/2015 3:11:43 | 35.11 | 32.81 | 1,232 | 1.30 | 0.23 | 67.4 |
| 4/30/2015 3:11:44 | 35.43 | 33.13 | 1,144 | 1.30 | 0.23 | 62.6 |
| 4/30/2015 3:11:44 | 35.76 | 33.46 | 1,144 | 1.30 | 0.23 | 62.6 |
| 4/30/2015 3:11:44 | 36.09 | 33.79 | 1,056 | 1.29 | 0.23 | 57.7 |
| 4/30/2015 3:11:45 | 36.42 | 34.12 | 970 | 1.30 | 0.23 | 53.0 |
| 4/30/2015 3:11:45 | 36.75 | 34.45 | 900 | 1.31 | 0.23 | 49.2 |
| 4/30/2015 3:11:46 | 37.07 | 34.77 | 900 | 1.31 | 0.23 | 49.2 |
| 4/30/2015 3:11:46 | 37.40 | 35.10 | 902 | 1.32 | 0.23 | 49.3 |
| 4/30/2015 3:11:46 | 37.73 | 35.43 | 902 | 1.31 | 0.23 | 49.3 |
| 4/30/2015 3:11:47 | 38.06 | 35.76 | 896 | 1.32 | 0.23 | 49.0 |
| 4/30/2015 3:11:47 | 38.39 | 36.09 | 896 | 1.32 | 0.23 | 49.0 |
| 4/30/2015 3:11:48 | 38.71 | 36.41 | 896 | 1.32 | 0.23 | 49.0 |
| 4/30/2015 3:11:48 | 39.04 | 36.74 | 896 | 1.33 | 0.23 | 49.0 |
| 4/30/2015 3:11:48 | 39.37 | 37.07 | 893 | 1.33 | 0.23 | 48.8 |
| 4/30/2015 3:11:49 | 39.70 | 37.40 | 896 | 1.79 | 0.22 | 49.0 |
| 4/30/2015 3:11:49 | 40.03 | 37.73 | 896 | 1.79 | 0.22 | 49.0 |
| 4/30/2015 3:11:49 | 40.35 | 38.05 | 925 | 1.76 | 0.22 | 50.6 |
| 4/30/2015 3:11:50 | 40.68 | 38.38 | 925 | 1.76 | 0.22 | 50.6 |
| 4/30/2015 3:11:50 | 41.01 | 38.71 | 1,016 | 1.51 | 0.23 | 55.5 |
| 4/30/2015 3:11:51 | 41.34 | 39.04 | 1,016 | 1.51 | 0.23 | 55.5 |
| 4/30/2015 3:11:50 | 41.67 | 39.37 | 1,076 | 1.62 | 0.23 | 58.8 |
| 4/30/2015 3:11:51 | 41.99 | 39.69 | 1,146 | 1.53 | 0.21 | 62.7 |
| 4/30/2015 3:11:52 | 42.32 | 40.02 | 1,146 | 1.53 | 0.21 | 62.7 |
| 4/30/2015 3:11:52 | 42.65 | 40.35 | 1,204 | 1.77 | 0.22 | 65.8 |
| 4/30/2015 3:11:52 | 42.98 | 40.68 | 1,204 | 1.77 | 0.22 | 65.8 |
| 4/30/2015 3:11:52 | 43.31 | 41.01 | 1,266 | 1.76 | 0.22 | 69.2 |
| 4/30/2015 3:11:53 | 43.64 | 41.34 | 1,266 | 1.76 | 0.22 | 69.2 |
| 4/30/2015 3:11:53 | 43.96 | 41.66 | 1,263 | 1.74 | 0.22 | 69.0 |
| 4/30/2015 3:11:53 | 44.29 | 41.99 | 1,263 | 1.74 | 0.22 | 69.0 |
| 4/30/2015 3:11:53 | 44.62 | 42.32 | 1,275 | 1.73 | 0.22 | 69.7 |
| 4/30/2015 3:11:54 | 44.95 | 42.65 | 1,275 | 1.73 | 0.22 | 69.7 |
| 4/30/2015 3:11:54 | 45.28 | 42.98 | 1,285 | 1.74 | 0.22 | 70.2 |
| 4/30/2015 3:11:54 | 45.60 | 43.30 | 1,285 | 1.74 | 0.22 | 70.2 |
| 4/30/2015 3:11:54 | 45.93 | 43.63 | 1,317 | 1.78 | 0.22 | 72.0 |
| 4/30/2015 3:11:55 | 46.26 | 43.96 | 1,317 | 1.78 | 0.22 | 72.0 |
| 4/30/2015 3:11:55 | 46.59 | 44.29 | 1,301 | 1.74 | 0.22 | 71.2 |
| 4/30/2015 3:11:55 | 46.92 | 44.62 | 1,301 | 1.74 | 0.22 | 71.2 |
| 4/30/2015 3:11:55 | 47.24 | 44.94 | 1,298 | 1.64 | 0.19 | 71.0 |
| 4/30/2015 3:12:03 | 47.57 | 45.27 | 0 | 1.74 | 0.98 | 0.0 |
| 4/30/2015 3:12:04 | 47.90 | 45.60 | 225 | 1.07 | 1.06 | 12.3 |
| 4/30/2015 3:12:06 | 48.23 | 45.93 | 359 | 1.08 | 1.63 | 19.6 |
| 4/30/2015 3:12:07 | 48.56 | 46.26 | 261 | 1.09 | 0.94 | 14.3 |
| 4/30/2015 3:12:08 | 48.88 | 46.58 | 333 | 1.17 | 1.13 | 18.2 |
| 4/30/2015 3:12:09 | 49.21 | 46.91 | 310 | 1.11 | 1.04 | 17.0 |
| 4/30/2015 3:12:11 | 49.54 | 47.24 | 206 | 1.10 | 1.23 | 11.2 |
| 4/30/2015 3:12:14 | 49.87 | 47.57 | 150 | 1.12 | 1.23 | 8.2 |
| 4/30/2015 3:12:16 | 50.20 | 47.90 | 159 | 1.10 | 1.26 | 8.7 |
| 4/30/2015 3:12:31 | 50.53 | 48.23 | 32 | 1.04 | 0.95 | 1.7 |
| 4/30/2015 3:12:40 | 50.85 | 48.55 | 38 | 1.04 | 0.93 | 2.1 |
| 4/30/2015 3:12:50 | 51.18 | 48.88 | 33 | 1.02 | 0.91 | 1.8 |
| 4/30/2015 3:12:59 | 51.51 | 49.21 | 32 | 1.02 | 0.80 | 1.7 |
| 4/30/2015 3:13:01 | 51.59 | 49.29 | 37 | 1.09 | 0.96 | 2.0 |

## K148 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:09:55

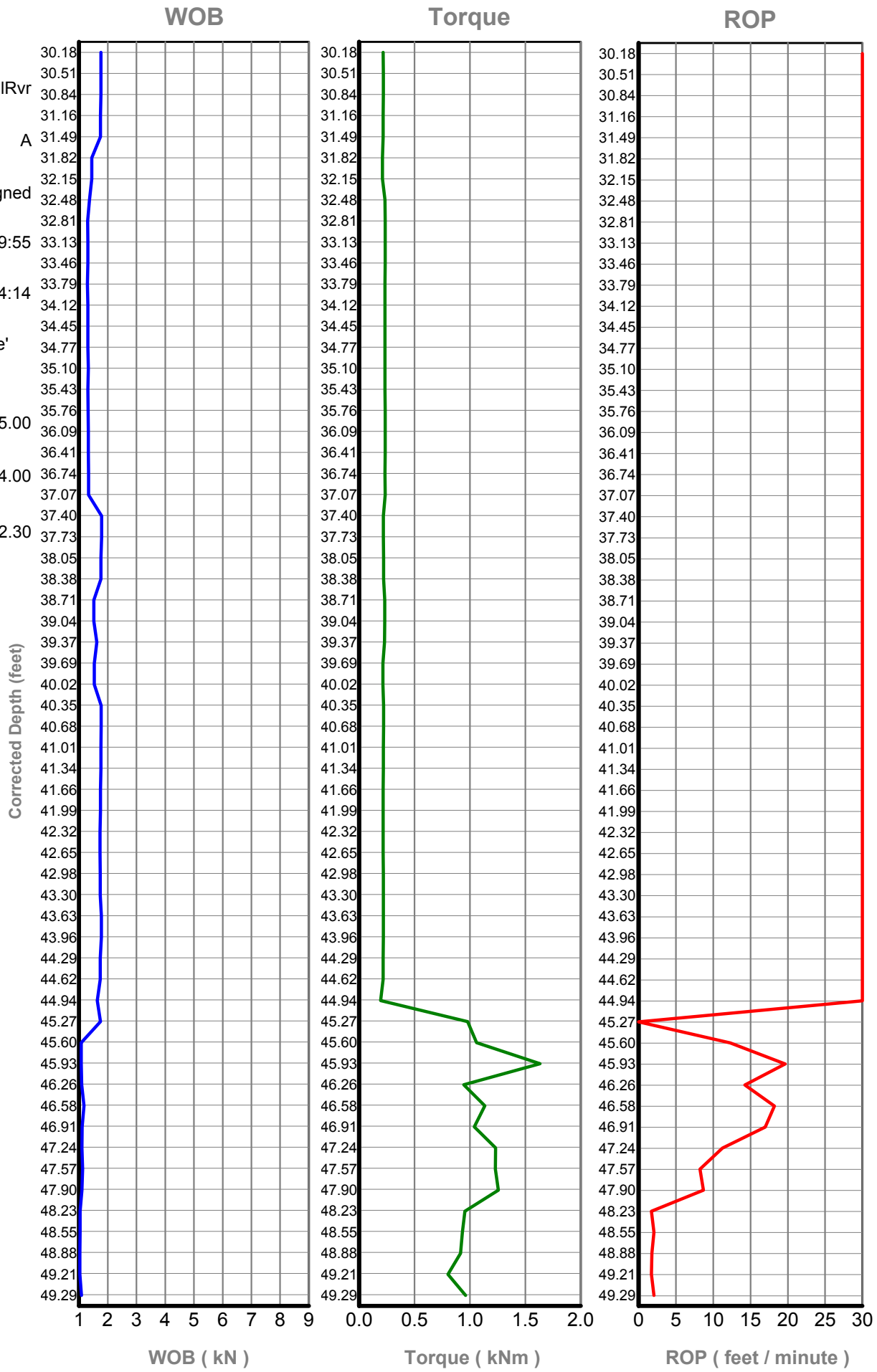
**End Date:**
4/30/2015 3:14:14

**Operator Note:**
'2.3 2.4 b Auto Complete'

**Northing:**
362,085.00

**Easting:**
245,354.00

**Tide (feet):**
2.30



## Hole: K149 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:12:25 | 32.48 | 30.18 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 3:12:25 | 32.81 | 30.51 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 3:12:26 | 33.14 | 30.84 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 3:12:26 | 33.46 | 31.16 | 1,132 | 0.32 | 0.38 | 61.9 |
| 4/30/2015 3:12:26 | 33.79 | 31.49 | 1,132 | 0.32 | 0.38 | 61.9 |
| 4/30/2015 3:12:26 | 34.12 | 31.82 | 1,142 | 0.31 | 0.38 | 62.4 |
| 4/30/2015 3:12:27 | 34.45 | 32.15 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/30/2015 3:12:27 | 34.78 | 32.48 | 1,139 | 0.31 | 0.38 | 62.3 |
| 4/30/2015 3:12:27 | 35.11 | 32.81 | 1,139 | 0.33 | 0.37 | 62.3 |
| 4/30/2015 3:12:28 | 35.43 | 33.13 | 1,139 | 0.33 | 0.37 | 62.3 |
| 4/30/2015 3:12:28 | 35.76 | 33.46 | 1,142 | 0.31 | 0.38 | 62.4 |
| 4/30/2015 3:12:28 | 36.09 | 33.79 | 1,142 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 3:12:29 | 36.42 | 34.12 | 1,142 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 3:12:29 | 36.75 | 34.45 | 1,133 | 0.32 | 0.37 | 62.0 |
| 4/30/2015 3:12:29 | 37.07 | 34.77 | 1,133 | 0.32 | 0.37 | 62.0 |
| 4/30/2015 3:12:29 | 37.40 | 35.10 | 1,136 | 0.32 | 0.38 | 62.1 |
| 4/30/2015 3:12:30 | 37.73 | 35.43 | 1,117 | 0.31 | 0.38 | 61.1 |
| 4/30/2015 3:12:30 | 38.06 | 35.76 | 1,117 | 0.31 | 0.38 | 61.1 |
| 4/30/2015 3:12:30 | 38.39 | 36.09 | 1,117 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 3:12:31 | 38.71 | 36.41 | 1,117 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 3:12:31 | 39.04 | 36.74 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/30/2015 3:12:31 | 39.37 | 37.07 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/30/2015 3:12:32 | 39.70 | 37.40 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/30/2015 3:12:32 | 40.03 | 37.73 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 3:12:33 | 40.35 | 38.05 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 3:12:32 | 40.68 | 38.38 | 1,128 | 0.32 | 0.37 | 61.7 |
| 4/30/2015 3:12:33 | 41.01 | 38.71 | 1,142 | 0.32 | 0.38 | 62.5 |
| 4/30/2015 3:12:34 | 41.34 | 39.04 | 1,142 | 0.32 | 0.38 | 62.5 |
| 4/30/2015 3:12:34 | 41.67 | 39.37 | 1,155 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 3:12:34 | 41.99 | 39.69 | 1,155 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 3:12:34 | 42.32 | 40.02 | 1,161 | 0.31 | 0.38 | 63.5 |
| 4/30/2015 3:12:35 | 42.65 | 40.35 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 3:12:35 | 42.98 | 40.68 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 3:12:35 | 43.31 | 41.01 | 1,152 | 0.32 | 0.37 | 63.0 |
| 4/30/2015 3:12:36 | 43.64 | 41.34 | 1,152 | 0.32 | 0.37 | 63.0 |
| 4/30/2015 3:12:36 | 43.96 | 41.66 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 3:12:36 | 44.29 | 41.99 | 1,148 | 0.32 | 0.38 | 62.8 |
| 4/30/2015 3:12:37 | 44.62 | 42.32 | 1,148 | 0.32 | 0.38 | 62.8 |
| 4/30/2015 3:12:37 | 44.95 | 42.65 | 1,151 | 0.32 | 0.37 | 62.9 |
| 4/30/2015 3:12:37 | 45.28 | 42.98 | 1,151 | 0.32 | 0.37 | 62.9 |
| 4/30/2015 3:12:37 | 45.60 | 43.30 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/30/2015 3:12:38 | 45.93 | 43.63 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/30/2015 3:12:38 | 46.26 | 43.96 | 1,153 | 0.32 | 0.37 | 63.1 |
| 4/30/2015 3:12:38 | 46.59 | 44.29 | 1,151 | 0.32 | 0.38 | 62.9 |
| 4/30/2015 3:12:39 | 46.92 | 44.62 | 1,151 | 0.32 | 0.38 | 62.9 |
| 4/30/2015 3:12:39 | 47.24 | 44.94 | 1,156 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 3:12:39 | 47.57 | 45.27 | 1,160 | 0.32 | 0.37 | 63.5 |
| 4/30/2015 3:12:40 | 47.90 | 45.60 | 1,160 | 0.32 | 0.37 | 63.5 |
| 4/30/2015 3:12:40 | 48.23 | 45.93 | 1,151 | 0.29 | 0.44 | 62.9 |
| 4/30/2015 3:12:44 | 48.56 | 46.26 | 51 | 5.40 | 0.42 | 2.8 |
| 4/30/2015 3:12:47 | 48.88 | 46.58 | 104 | 3.45 | 0.47 | 5.7 |
| 4/30/2015 3:12:50 | 49.21 | 46.91 | 110 | 3.73 | 0.44 | 6.0 |
| 4/30/2015 3:12:58 | 49.54 | 47.24 | 29 | 4.62 | 0.43 | 1.6 |
| 4/30/2015 3:12:59 | 49.87 | 47.57 | 143 | 2.71 | 0.42 | 7.8 |
| 4/30/2015 3:13:03 | 50.20 | 47.90 | 0 | 4.38 | 0.43 | 0.0 |
| 4/30/2015 3:13:07 | 50.53 | 48.23 | 72 | 6.75 | 0.46 | 4.0 |
| 4/30/2015 3:13:20 | 50.85 | 48.55 | 93 | 3.48 | 0.44 | 5.1 |
| 4/30/2015 3:13:22 | 51.18 | 48.88 | 175 | 5.20 | 0.44 | 9.6 |
| 4/30/2015 3:13:23 | 51.51 | 49.21 | 243 | 3.84 | 0.45 | 13.3 |
| 4/30/2015 3:13:24 | 51.84 | 49.54 | 248 | 3.79 | 0.45 | 13.6 |
| 4/30/2015 3:13:26 | 52.17 | 49.87 | 263 | 3.47 | 0.45 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:13:36 | 52.49 | 50.19 | 72 | 4.24 | 0.47 | 4.0 |
| 4/30/2015 | 3:13:38 | 52.82 | 50.52 | 150 | 3.38 | 0.46 | 8.2 |
| 4/30/2015 | 3:13:47 | 53.15 | 50.85 | 40 | 2.91 | 0.47 | 2.2 |
| 4/30/2015 | 3:13:55 | 53.48 | 51.18 | 35 | 2.77 | 0.46 | 1.9 |
| 4/30/2015 | 3:14:06 | 53.81 | 51.51 | 38 | 3.45 | 0.47 | 2.1 |
| 4/30/2015 | 3:14:09 | 53.98 | 51.68 | 46 | 3.14 | 0.46 | 2.5 |

## K149 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:11:05

**End Date:**
4/30/2015 3:15:42

**Operator Note:**
'2.3 2.4b Auto Complete'

**Northing:**
362,133.70

**Easting:**
245,412.20

**Tide (feet):**
2.30



## Hole: K15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:52:57 | 33.79 | 30.19 | 1,015 | 0.36 | 0.38 | 55.5 |
| 4/30/2015 1:52:57 | 34.12 | 30.52 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/30/2015 1:52:58 | 34.45 | 30.85 | 1,015 | 0.35 | 0.38 | 55.5 |
| 4/30/2015 1:52:58 | 34.78 | 31.18 | 1,017 | 0.37 | 0.38 | 55.6 |
| 4/30/2015 1:52:58 | 35.11 | 31.51 | 1,021 | 0.35 | 0.38 | 55.9 |
| 4/30/2015 1:52:59 | 35.43 | 31.83 | 1,021 | 0.35 | 0.38 | 55.9 |
| 4/30/2015 1:52:59 | 35.76 | 32.16 | 1,021 | 0.35 | 0.38 | 55.9 |
| 4/30/2015 1:52:59 | 36.09 | 32.49 | 1,022 | 0.35 | 0.38 | 55.9 |
| 4/30/2015 1:53:00 | 36.42 | 32.82 | 1,022 | 0.35 | 0.38 | 55.9 |
| 4/30/2015 1:53:00 | 36.75 | 33.15 | 999 | 0.35 | 0.38 | 54.6 |
| 4/30/2015 1:53:00 | 37.07 | 33.47 | 1,011 | 0.31 | 0.44 | 55.3 |
| 4/30/2015 1:53:04 | 37.40 | 33.80 | 49 | 2.87 | 0.39 | 2.7 |
| 4/30/2015 1:53:05 | 37.73 | 34.13 | 49 | 2.87 | 0.39 | 2.7 |
| 4/30/2015 1:53:07 | 38.06 | 34.46 | 202 | 3.50 | 0.44 | 11.0 |
| 4/30/2015 1:53:08 | 38.39 | 34.79 | 295 | 3.79 | 0.46 | 16.2 |
| 4/30/2015 1:53:11 | 38.71 | 35.11 | 226 | 3.80 | 0.46 | 12.4 |
| 4/30/2015 1:53:14 | 39.04 | 35.44 | 118 | 3.88 | 0.47 | 6.5 |
| 4/30/2015 1:53:23 | 39.37 | 35.77 | 37 | 6.33 | 0.45 | 2.0 |
| 4/30/2015 1:53:24 | 39.70 | 36.10 | 130 | 5.40 | 0.44 | 7.1 |
| 4/30/2015 1:53:25 | 40.03 | 36.43 | 266 | 3.22 | 0.43 | 14.6 |
| 4/30/2015 1:53:30 | 40.35 | 36.75 | 0 | 3.08 | 0.44 | 0.0 |
| 4/30/2015 1:53:32 | 40.68 | 37.08 | 166 | 3.24 | 0.46 | 9.1 |
| 4/30/2015 1:53:33 | 41.01 | 37.41 | 225 | 3.75 | 0.45 | 12.3 |
| 4/30/2015 1:53:36 | 41.34 | 37.74 | 202 | 3.21 | 0.45 | 11.1 |
| 4/30/2015 1:53:37 | 41.67 | 38.07 | 214 | 2.84 | 0.45 | 11.7 |
| 4/30/2015 1:53:38 | 41.99 | 38.39 | 246 | 2.44 | 0.43 | 13.5 |
| 4/30/2015 1:53:45 | 42.32 | 38.72 | 0 | 3.22 | 0.44 | 0.0 |
| 4/30/2015 1:53:47 | 42.65 | 39.05 | 150 | 3.24 | 0.46 | 8.2 |
| 4/30/2015 1:53:51 | 42.98 | 39.38 | 56 | 3.60 | 0.45 | 3.1 |
| 4/30/2015 1:53:54 | 43.31 | 39.71 | 115 | 3.24 | 0.46 | 6.3 |
| 4/30/2015 1:53:57 | 43.64 | 40.04 | 168 | 3.39 | 0.45 | 9.2 |
| 4/30/2015 1:54:10 | 43.96 | 40.36 | 9 | 4.83 | 0.46 | 0.5 |
| 4/30/2015 1:54:48 | 44.29 | 40.69 | 61 | 4.16 | 0.46 | 3.3 |
| 4/30/2015 1:54:51 | 44.62 | 41.02 | 113 | 3.33 | 0.48 | 6.2 |
| 4/30/2015 1:54:58 | 44.95 | 41.35 | 17 | 3.64 | 0.47 | 0.9 |
| 4/30/2015 1:55:02 | 45.28 | 41.68 | 113 | 3.42 | 0.47 | 6.2 |
| 4/30/2015 1:55:04 | 45.60 | 42.00 | 125 | 4.14 | 0.47 | 6.8 |
| 4/30/2015 1:55:05 | 45.93 | 42.33 | 132 | 2.84 | 0.44 | 7.2 |
| 4/30/2015 1:55:07 | 46.26 | 42.66 | 210 | 3.34 | 0.45 | 11.5 |
| 4/30/2015 1:55:10 | 46.59 | 42.99 | 129 | 3.41 | 0.47 | 7.1 |
| 4/30/2015 1:55:13 | 46.92 | 43.32 | 132 | 3.49 | 0.47 | 7.2 |
| 4/30/2015 1:55:22 | 47.24 | 43.64 | 39 | 4.00 | 0.46 | 2.1 |
| 4/30/2015 1:55:26 | 47.57 | 43.97 | 85 | 3.96 | 0.46 | 4.6 |
| 4/30/2015 1:55:31 | 47.90 | 44.30 | 78 | 3.84 | 0.47 | 4.3 |
| 4/30/2015 1:55:36 | 48.23 | 44.63 | 64 | 3.59 | 0.47 | 3.5 |
| 4/30/2015 1:55:41 | 48.56 | 44.96 | 77 | 4.15 | 0.48 | 4.2 |
| 4/30/2015 1:55:45 | 48.88 | 45.28 | 84 | 4.14 | 0.47 | 4.6 |
| 4/30/2015 1:55:50 | 49.21 | 45.61 | 68 | 3.86 | 0.48 | 3.7 |
| 4/30/2015 1:55:55 | 49.54 | 45.94 | 75 | 3.76 | 0.47 | 4.1 |
| 4/30/2015 1:55:59 | 49.87 | 46.27 | 93 | 3.37 | 0.47 | 5.1 |
| 4/30/2015 1:56:06 | 50.20 | 46.60 | 78 | 3.66 | 0.47 | 4.3 |
| 4/30/2015 1:56:09 | 50.53 | 46.93 | 94 | 3.39 | 0.47 | 5.2 |
| 4/30/2015 1:56:15 | 50.85 | 47.25 | 55 | 4.16 | 0.46 | 3.0 |
| 4/30/2015 1:56:20 | 51.18 | 47.58 | 57 | 3.86 | 0.48 | 3.1 |
| 4/30/2015 1:56:27 | 51.51 | 47.91 | 60 | 3.71 | 0.47 | 3.3 |
| 4/30/2015 1:56:33 | 51.84 | 48.24 | 63 | 3.70 | 0.47 | 3.4 |
| 4/30/2015 1:56:37 | 52.06 | 48.46 | 52 | 3.64 | 0.47 | 2.8 |

## K15 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:51:13

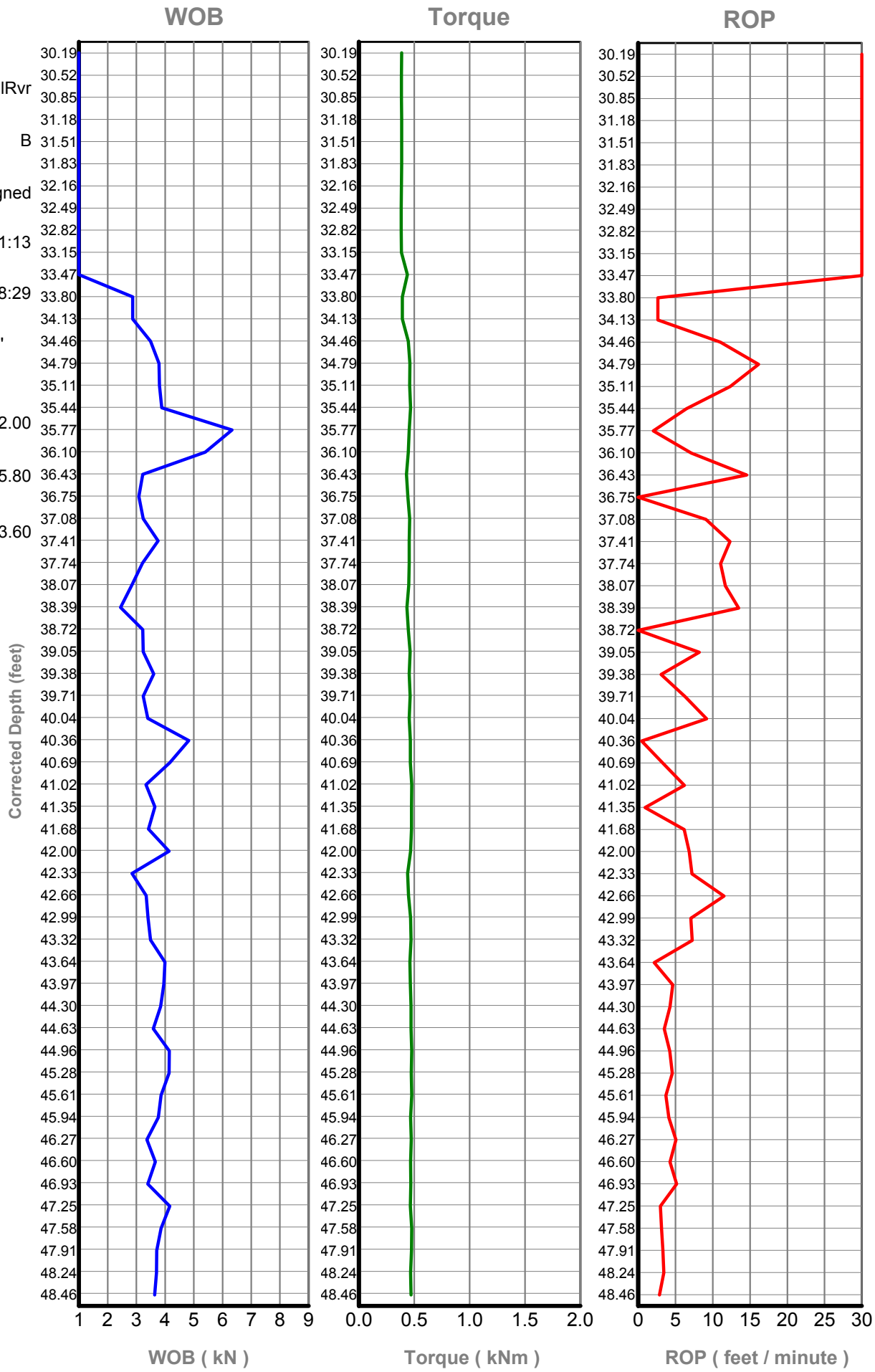
**End Date:**
4/30/2015 1:58:29

**Operator Note:**
'3.6 3.6b Auto Complete'

**Northing:**
362,482.00

**Easting:**
245,125.80

**Tide (feet):**
3.60



## Hole: K150 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:10:36 | 32.48 | 30.18 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 3:10:37 | 32.81 | 30.51 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:37 | 33.14 | 30.84 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:37 | 33.46 | 31.16 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 3:10:38 | 33.79 | 31.49 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 3:10:38 | 34.12 | 31.82 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 3:10:38 | 34.45 | 32.15 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 3:10:39 | 34.78 | 32.48 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 3:10:39 | 35.11 | 32.81 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:10:40 | 35.43 | 33.13 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 3:10:40 | 35.76 | 33.46 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 3:10:40 | 36.09 | 33.79 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:41 | 36.42 | 34.12 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 3:10:41 | 36.75 | 34.45 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 3:10:41 | 37.07 | 34.77 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 3:10:42 | 37.40 | 35.10 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 3:10:42 | 37.73 | 35.43 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:42 | 38.06 | 35.76 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:43 | 38.39 | 36.09 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:43 | 38.71 | 36.41 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 3:10:43 | 39.04 | 36.74 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:44 | 39.37 | 37.07 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:44 | 39.70 | 37.40 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:44 | 40.03 | 37.73 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:44 | 40.35 | 38.05 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:45 | 40.68 | 38.38 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:45 | 41.01 | 38.71 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:45 | 41.34 | 39.04 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:46 | 41.67 | 39.37 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:46 | 41.99 | 39.69 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:46 | 42.32 | 40.02 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:47 | 42.65 | 40.35 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:10:47 | 42.98 | 40.68 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:47 | 43.31 | 41.01 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:48 | 43.64 | 41.34 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:48 | 43.96 | 41.66 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:48 | 44.29 | 41.99 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 3:10:49 | 44.62 | 42.32 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 3:10:49 | 44.95 | 42.65 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 3:10:49 | 45.28 | 42.98 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 3:10:49 | 45.60 | 43.30 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:10:50 | 45.93 | 43.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:50 | 46.26 | 43.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:10:50 | 46.59 | 44.29 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:10:51 | 46.92 | 44.62 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:52 | 47.24 | 44.94 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:52 | 47.57 | 45.27 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:52 | 47.90 | 45.60 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:10:52 | 48.23 | 45.93 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:11:00 | 48.56 | 46.26 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 3:11:01 | 48.88 | 46.58 | 63 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 3:11:01 | 49.21 | 46.91 | 228 | 1.14 | 0.29 | 12.5 |
| 4/30/2015 3:11:11 | 49.54 | 47.24 | 62 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 3:11:12 | 49.87 | 47.57 | 178 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 3:11:13 | 50.20 | 47.90 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 3:11:14 | 50.53 | 48.23 | 331 | 1.14 | 0.29 | 18.1 |
| 4/30/2015 3:11:30 | 50.85 | 48.55 | 69 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 3:11:31 | 51.18 | 48.88 | 144 | 1.14 | 0.29 | 7.9 |
| 4/30/2015 3:11:31 | 51.51 | 49.21 | 244 | 1.14 | 0.29 | 13.3 |
| 4/30/2015 3:11:32 | 51.84 | 49.54 | 332 | 1.14 | 0.29 | 18.1 |
| 4/30/2015 3:11:38 | 52.17 | 49.87 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:11:39 | 52.49 | 50.19 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 3:11:39 | 52.82 | 50.52 | 121 | 1.14 | 0.29 | 6.6 |
| 4/30/2015 | 3:11:40 | 53.15 | 50.85 | 253 | 1.14 | 0.29 | 13.9 |
| 4/30/2015 | 3:11:43 | 53.48 | 51.18 | 133 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 3:11:48 | 53.81 | 51.51 | 14 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 | 3:11:53 | 54.13 | 51.83 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 | 3:12:31 | 54.46 | 52.16 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 | 3:12:43 | 54.79 | 52.49 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 3:12:54 | 55.10 | 52.80 | 32 | 1.14 | 0.29 | 1.7 |

## K150 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:09:42

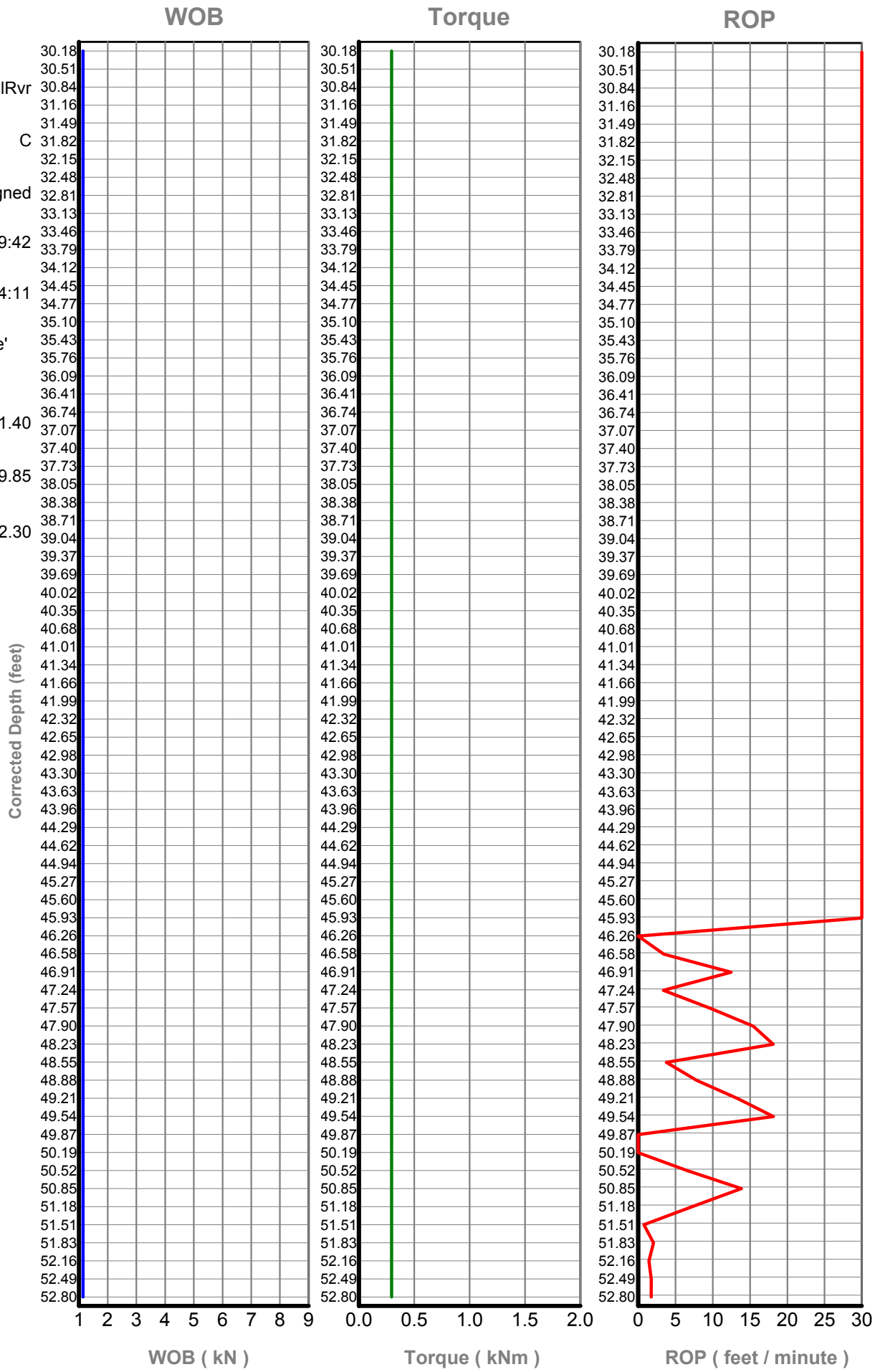
**End Date:**
4/30/2015 3:14:11

**Operator Note:**
'2.3 2,4 c Auto Complete'

**Northing:**
362,181.40

**Easting:**
245,469.85

**Tide (feet):**
2.30



## Hole: K151 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:25:42 | 35.11 | 30.01 | 795 | 1.09 | 0.18 | 43.5 |
| 4/30/2015 0:25:43 | 35.43 | 30.33 | 795 | 1.09 | 0.18 | 43.5 |
| 4/30/2015 0:25:43 | 35.76 | 30.66 | 795 | 1.06 | 0.18 | 43.5 |
| 4/30/2015 0:25:43 | 36.09 | 30.99 | 782 | 1.06 | 0.18 | 42.8 |
| 4/30/2015 0:25:44 | 36.42 | 31.32 | 782 | 1.08 | 0.19 | 42.8 |
| 4/30/2015 0:25:44 | 36.75 | 31.65 | 792 | 1.07 | 0.19 | 43.3 |
| 4/30/2015 0:25:45 | 37.07 | 31.97 | 784 | 1.05 | 0.19 | 42.9 |
| 4/30/2015 0:25:45 | 37.40 | 32.30 | 782 | 1.07 | 0.19 | 42.7 |
| 4/30/2015 0:25:46 | 37.73 | 32.63 | 782 | 1.07 | 0.19 | 42.7 |
| 4/30/2015 0:25:46 | 38.06 | 32.96 | 787 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:46 | 38.39 | 33.29 | 800 | 1.07 | 0.19 | 43.7 |
| 4/30/2015 0:25:47 | 38.71 | 33.61 | 795 | 1.07 | 0.18 | 43.5 |
| 4/30/2015 0:25:47 | 39.04 | 33.94 | 795 | 1.07 | 0.18 | 43.5 |
| 4/30/2015 0:25:48 | 39.37 | 34.27 | 801 | 1.06 | 0.19 | 43.8 |
| 4/30/2015 0:25:49 | 39.70 | 34.60 | 798 | 1.07 | 0.18 | 43.6 |
| 4/30/2015 0:25:49 | 40.03 | 34.93 | 798 | 1.07 | 0.18 | 43.6 |
| 4/30/2015 0:25:49 | 40.35 | 35.25 | 798 | 1.07 | 0.19 | 43.6 |
| 4/30/2015 0:25:50 | 40.68 | 35.58 | 790 | 1.05 | 0.18 | 43.2 |
| 4/30/2015 0:25:50 | 41.01 | 35.91 | 798 | 1.07 | 0.19 | 43.6 |
| 4/30/2015 0:25:51 | 41.34 | 36.24 | 792 | 1.07 | 0.18 | 43.3 |
| 4/30/2015 0:25:51 | 41.67 | 36.57 | 789 | 1.06 | 0.18 | 43.2 |
| 4/30/2015 0:25:52 | 41.99 | 36.89 | 786 | 1.07 | 0.19 | 43.0 |
| 4/30/2015 0:25:52 | 42.32 | 37.22 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:53 | 42.65 | 37.55 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:53 | 42.98 | 37.88 | 783 | 1.05 | 0.19 | 42.8 |
| 4/30/2015 0:25:53 | 43.31 | 38.21 | 783 | 1.07 | 0.18 | 42.8 |
| 4/30/2015 0:25:54 | 43.64 | 38.54 | 779 | 1.08 | 0.18 | 42.6 |
| 4/30/2015 0:25:54 | 43.96 | 38.86 | 786 | 1.06 | 0.19 | 43.0 |
| 4/30/2015 0:25:55 | 44.29 | 39.19 | 789 | 1.07 | 0.18 | 43.2 |
| 4/30/2015 0:25:55 | 44.62 | 39.52 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:56 | 44.95 | 39.85 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:56 | 45.28 | 40.18 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:56 | 45.60 | 40.50 | 794 | 1.07 | 0.18 | 43.4 |
| 4/30/2015 0:25:57 | 45.93 | 40.83 | 786 | 1.07 | 0.18 | 43.0 |
| 4/30/2015 0:25:57 | 46.26 | 41.16 | 788 | 1.07 | 0.18 | 43.1 |
| 4/30/2015 0:25:58 | 46.59 | 41.49 | 781 | 1.08 | 0.18 | 42.7 |
| 4/30/2015 0:25:59 | 46.92 | 41.82 | 783 | 1.07 | 0.18 | 42.8 |
| 4/30/2015 0:25:59 | 47.24 | 42.14 | 772 | 1.07 | 0.18 | 42.2 |
| 4/30/2015 0:26:00 | 47.57 | 42.47 | 778 | 1.07 | 0.19 | 42.5 |
| 4/30/2015 0:26:00 | 47.90 | 42.80 | 778 | 1.07 | 0.19 | 42.5 |
| 4/30/2015 0:26:00 | 48.23 | 43.13 | 773 | 1.07 | 0.18 | 42.3 |
| 4/30/2015 0:26:01 | 48.56 | 43.46 | 781 | 1.07 | 0.18 | 42.7 |
| 4/30/2015 0:26:01 | 48.88 | 43.78 | 778 | 1.06 | 0.18 | 42.5 |
| 4/30/2015 0:26:02 | 49.21 | 44.11 | 783 | 1.08 | 0.19 | 42.8 |
| 4/30/2015 0:26:02 | 49.54 | 44.44 | 776 | 1.07 | 0.18 | 42.4 |
| 4/30/2015 0:26:03 | 49.87 | 44.77 | 760 | 1.07 | 0.19 | 41.5 |
| 4/30/2015 0:26:03 | 50.20 | 45.10 | 760 | 1.09 | 0.19 | 41.5 |
| 4/30/2015 0:26:04 | 50.53 | 45.43 | 768 | 1.06 | 0.19 | 42.0 |
| 4/30/2015 0:26:04 | 50.85 | 45.75 | 768 | 1.06 | 0.19 | 42.0 |
| 4/30/2015 0:26:12 | 51.18 | 46.08 | 31 | 1.14 | 1.22 | 1.7 |
| 4/30/2015 0:26:15 | 51.51 | 46.41 | 104 | 1.10 | 1.27 | 5.7 |
| 4/30/2015 0:26:17 | 51.84 | 46.74 | 164 | 1.17 | 1.15 | 9.0 |
| 4/30/2015 0:26:18 | 52.17 | 47.07 | 237 | 1.00 | 1.23 | 12.9 |
| 4/30/2015 0:26:19 | 52.49 | 47.39 | 309 | 1.05 | 1.19 | 16.9 |
| 4/30/2015 0:26:20 | 52.82 | 47.72 | 381 | 1.08 | 1.37 | 20.8 |
| 4/30/2015 0:26:49 | 53.15 | 48.05 | 37 | 1.08 | 1.61 | 2.0 |
| 4/30/2015 0:26:51 | 53.48 | 48.38 | 166 | 1.07 | 1.40 | 9.1 |
| 4/30/2015 0:27:24 | 53.81 | 48.71 | 32 | 1.65 | 1.91 | 1.8 |
| 4/30/2015 0:27:26 | 54.13 | 49.03 | 188 | 1.07 | 1.60 | 10.3 |
| 4/30/2015 0:28:17 | 54.46 | 49.36 | 46 | 1.13 | 0.94 | 2.5 |
| 4/30/2015 0:28:30 | 54.79 | 49.69 | 29 | 1.05 | 0.82 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:28:43 | 55.12 | 50.02 | 23 | 1.03 | 0.91 | 1.3 |
| 4/30/2015 | 0:29:01 | 55.45 | 50.35 | 0 | 0.96 | 1.00 | 0.0 |
| 4/30/2015 | 0:29:09 | 55.77 | 50.67 | 40 | 1.95 | 0.90 | 2.2 |
| 4/30/2015 | 0:29:12 | 55.87 | 50.77 | 32 | 1.09 | 1.08 | 1.7 |

## K151 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:23:46

**End Date:**
4/30/2015 0:37:42

**Operator Note:**
'5.1 5.2 b Auto Complete'

**Northing:**
362,234.00

**Easting:**
245,526.40

**Tide (feet):**
5.10



## Hole: K152 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:27:22 | 35.11 | 30.01 | 1,127 | 0.31 | 0.38 | 61.6 |
| 4/30/2015 0:27:23 | 35.43 | 30.33 | 1,127 | 0.31 | 0.38 | 61.6 |
| 4/30/2015 0:27:23 | 35.76 | 30.66 | 1,136 | 0.31 | 0.36 | 62.1 |
| 4/30/2015 0:27:23 | 36.09 | 30.99 | 1,136 | 0.31 | 0.36 | 62.1 |
| 4/30/2015 0:27:23 | 36.42 | 31.32 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 0:27:24 | 36.75 | 31.65 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/30/2015 0:27:24 | 37.07 | 31.97 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/30/2015 0:27:24 | 37.40 | 32.30 | 1,135 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 0:27:25 | 37.73 | 32.63 | 1,135 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 0:27:25 | 38.06 | 32.96 | 1,145 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 0:27:25 | 38.39 | 33.29 | 1,142 | 0.31 | 0.38 | 62.4 |
| 4/30/2015 0:27:26 | 38.71 | 33.61 | 1,142 | 0.31 | 0.38 | 62.4 |
| 4/30/2015 0:27:26 | 39.04 | 33.94 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 0:27:26 | 39.37 | 34.27 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 0:27:26 | 39.70 | 34.60 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/30/2015 0:27:27 | 40.03 | 34.93 | 1,157 | 0.30 | 0.37 | 63.3 |
| 4/30/2015 0:27:27 | 40.35 | 35.25 | 1,157 | 0.30 | 0.37 | 63.3 |
| 4/30/2015 0:27:27 | 40.68 | 35.58 | 1,148 | 0.30 | 0.37 | 62.8 |
| 4/30/2015 0:27:28 | 41.01 | 35.91 | 1,148 | 0.30 | 0.37 | 62.8 |
| 4/30/2015 0:27:28 | 41.34 | 36.24 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 0:27:28 | 41.67 | 36.57 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 0:27:28 | 41.99 | 36.89 | 1,144 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 0:27:29 | 42.32 | 37.22 | 1,151 | 0.31 | 0.38 | 62.9 |
| 4/30/2015 0:27:30 | 42.65 | 37.55 | 1,151 | 0.31 | 0.38 | 62.9 |
| 4/30/2015 0:27:30 | 42.98 | 37.88 | 1,148 | 0.30 | 0.37 | 62.8 |
| 4/30/2015 0:27:30 | 43.31 | 38.21 | 1,148 | 0.30 | 0.37 | 62.8 |
| 4/30/2015 0:27:30 | 43.64 | 38.54 | 1,129 | 0.30 | 0.38 | 61.8 |
| 4/30/2015 0:27:31 | 43.96 | 38.86 | 1,129 | 0.30 | 0.37 | 61.8 |
| 4/30/2015 0:27:31 | 44.29 | 39.19 | 1,129 | 0.30 | 0.37 | 61.8 |
| 4/30/2015 0:27:31 | 44.62 | 39.52 | 1,146 | 0.30 | 0.37 | 62.7 |
| 4/30/2015 0:27:32 | 44.95 | 39.85 | 1,146 | 0.30 | 0.37 | 62.7 |
| 4/30/2015 0:27:32 | 45.28 | 40.18 | 1,143 | 0.30 | 0.37 | 62.5 |
| 4/30/2015 0:27:32 | 45.60 | 40.50 | 1,137 | 0.30 | 0.37 | 62.2 |
| 4/30/2015 0:27:33 | 45.93 | 40.83 | 1,137 | 0.30 | 0.37 | 62.2 |
| 4/30/2015 0:27:33 | 46.26 | 41.16 | 1,140 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 0:27:33 | 46.59 | 41.49 | 1,140 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 0:27:33 | 46.92 | 41.82 | 1,161 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 0:27:34 | 47.24 | 42.14 | 1,147 | 0.31 | 0.38 | 62.7 |
| 4/30/2015 0:27:34 | 47.57 | 42.47 | 1,147 | 0.31 | 0.38 | 62.7 |
| 4/30/2015 0:27:34 | 47.90 | 42.80 | 1,156 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 0:27:35 | 48.23 | 43.13 | 1,156 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 0:27:35 | 48.56 | 43.46 | 1,151 | 0.30 | 0.37 | 62.9 |
| 4/30/2015 0:27:35 | 48.88 | 43.78 | 1,147 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 0:27:36 | 49.21 | 44.11 | 1,147 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 0:27:36 | 49.54 | 44.44 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 0:27:36 | 49.87 | 44.77 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 0:27:40 | 50.20 | 45.10 | 0 | 3.09 | 0.41 | 0.0 |
| 4/30/2015 0:27:44 | 50.53 | 45.43 | 78 | 4.02 | 0.47 | 4.3 |
| 4/30/2015 0:27:45 | 50.85 | 45.75 | 117 | 3.56 | 0.43 | 6.4 |
| 4/30/2015 0:27:46 | 51.18 | 46.08 | 244 | 3.76 | 0.43 | 13.3 |
| 4/30/2015 0:27:46 | 51.51 | 46.41 | 311 | 3.62 | 0.44 | 17.0 |
| 4/30/2015 0:27:47 | 51.84 | 46.74 | 418 | 3.70 | 0.43 | 22.9 |
| 4/30/2015 0:27:54 | 52.17 | 47.07 | 43 | 4.10 | 0.46 | 2.4 |
| 4/30/2015 0:27:57 | 52.49 | 47.39 | 126 | 4.83 | 0.45 | 6.9 |
| 4/30/2015 0:28:11 | 52.82 | 47.72 | 0 | 3.64 | 0.43 | 0.0 |
| 4/30/2015 0:28:13 | 53.15 | 48.05 | 45 | 4.00 | 0.43 | 2.5 |
| 4/30/2015 0:28:13 | 53.48 | 48.38 | 135 | 3.53 | 0.42 | 7.4 |
| 4/30/2015 0:28:14 | 53.81 | 48.71 | 232 | 3.91 | 0.43 | 12.7 |
| 4/30/2015 0:28:15 | 54.13 | 49.03 | 232 | 2.40 | 0.42 | 12.7 |
| 4/30/2015 0:28:16 | 54.46 | 49.36 | 334 | 3.56 | 0.46 | 18.2 |
| 4/30/2015 0:28:17 | 54.79 | 49.69 | 425 | 2.97 | 0.43 | 23.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:28:18 | 55.12 | 50.02 | 405 | 3.85 | 0.46 | 22.1 |
| 4/30/2015 | 0:28:19 | 55.45 | 50.35 | 288 | 3.74 | 0.45 | 15.7 |
| 4/30/2015 | 0:28:22 | 55.77 | 50.67 | 164 | 3.26 | 0.46 | 9.0 |
| 4/30/2015 | 0:28:27 | 56.10 | 51.00 | 68 | 3.53 | 0.46 | 3.7 |
| 4/30/2015 | 0:28:32 | 56.43 | 51.33 | 91 | 3.44 | 0.47 | 5.0 |
| 4/30/2015 | 0:28:39 | 56.76 | 51.66 | 50 | 2.86 | 0.46 | 2.8 |
| 4/30/2015 | 0:28:46 | 57.09 | 51.99 | 45 | 2.79 | 0.46 | 2.5 |
| 4/30/2015 | 0:28:54 | 57.41 | 52.31 | 44 | 3.04 | 0.47 | 2.4 |
| 4/30/2015 | 0:28:56 | 57.49 | 52.39 | 53 | 3.76 | 0.46 | 2.9 |

## K152 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:24:56

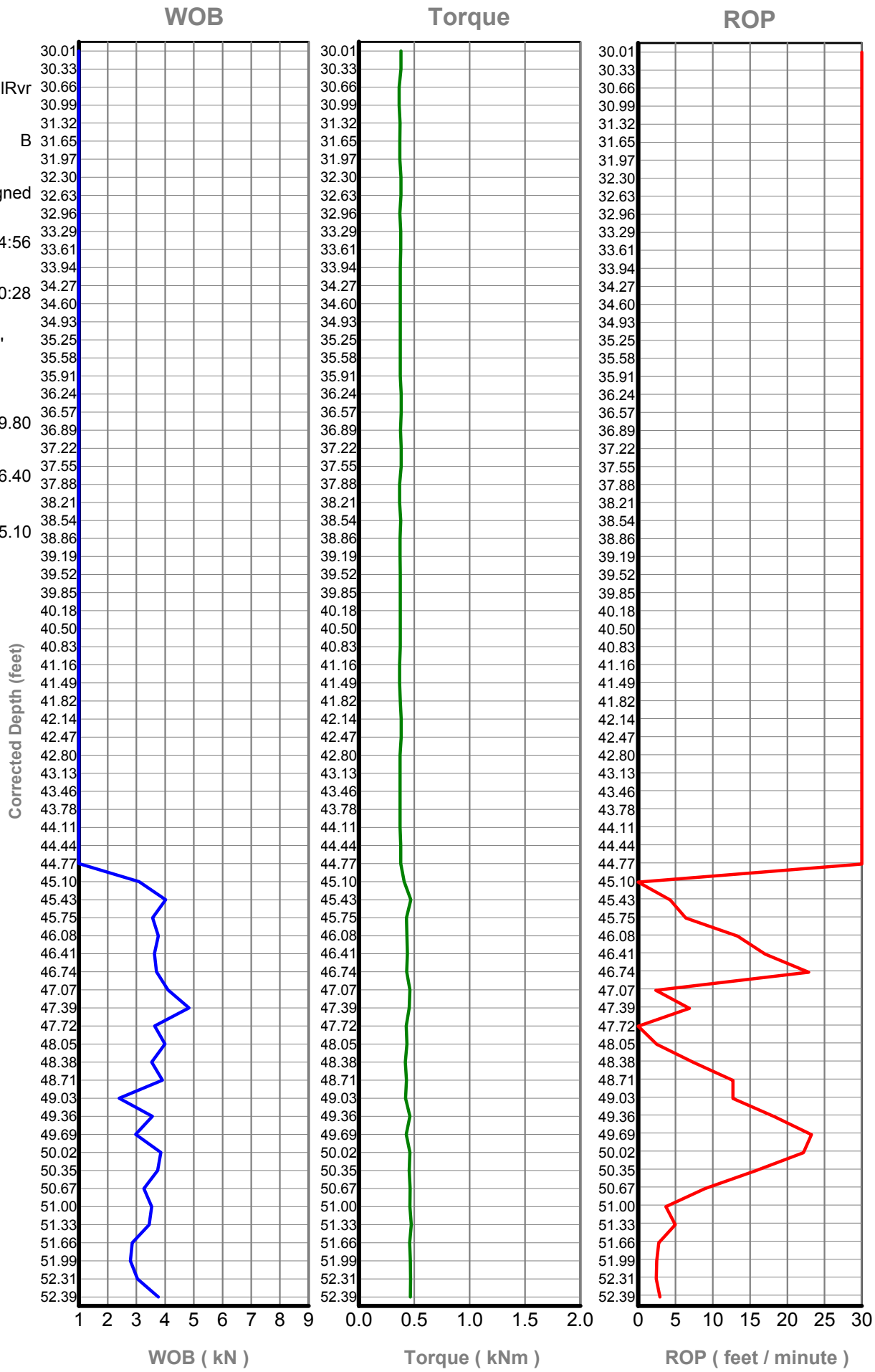
**End Date:**
4/30/2015 0:30:28

**Operator Note:**
'5.1 5.2b Auto Complete'

**Northing:**
362,279.80

**Easting:**
245,586.40

**Tide (feet):**
5.10



## Hole: K153 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:25:00 | 35.11 | 30.01 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:25:00 | 35.43 | 30.33 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 0:25:00 | 35.76 | 30.66 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:01 | 36.09 | 30.99 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:01 | 36.42 | 31.32 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:25:01 | 36.75 | 31.65 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:25:01 | 37.07 | 31.97 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 0:25:02 | 37.40 | 32.30 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:25:02 | 37.73 | 32.63 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:25:02 | 38.06 | 32.96 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:03 | 38.39 | 33.29 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:03 | 38.71 | 33.61 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:03 | 39.04 | 33.94 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:04 | 39.37 | 34.27 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:25:04 | 39.70 | 34.60 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:25:04 | 40.03 | 34.93 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:05 | 40.35 | 35.25 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:05 | 40.68 | 35.58 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:05 | 41.01 | 35.91 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:05 | 41.34 | 36.24 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:25:06 | 41.67 | 36.57 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:07 | 41.99 | 36.89 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:07 | 42.32 | 37.22 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:25:07 | 42.65 | 37.55 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:25:07 | 42.98 | 37.88 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:08 | 43.31 | 38.21 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:25:08 | 43.64 | 38.54 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:25:08 | 43.96 | 38.86 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 0:25:09 | 44.29 | 39.19 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:09 | 44.62 | 39.52 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:09 | 44.95 | 39.85 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:25:10 | 45.28 | 40.18 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:25:10 | 45.60 | 40.50 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 0:25:10 | 45.93 | 40.83 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:11 | 46.26 | 41.16 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:11 | 46.59 | 41.49 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:11 | 46.92 | 41.82 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:12 | 47.24 | 42.14 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:12 | 47.57 | 42.47 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:12 | 47.90 | 42.80 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 0:25:12 | 48.23 | 43.13 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 0:25:13 | 48.56 | 43.46 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:25:13 | 48.88 | 43.78 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:25:13 | 49.21 | 44.11 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 0:25:14 | 49.54 | 44.44 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:14 | 49.87 | 44.77 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 0:25:14 | 50.20 | 45.10 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 0:25:24 | 50.53 | 45.43 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 0:25:25 | 50.85 | 45.75 | 160 | 1.14 | 0.29 | 8.7 |
| 4/30/2015 0:25:26 | 51.18 | 46.08 | 317 | 1.14 | 0.29 | 17.3 |
| 4/30/2015 0:25:27 | 51.51 | 46.41 | 317 | 1.14 | 0.29 | 17.3 |
| 4/30/2015 0:25:35 | 51.84 | 46.74 | 98 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 0:25:39 | 52.17 | 47.07 | 96 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 0:25:43 | 52.49 | 47.39 | 90 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 0:25:48 | 52.82 | 47.72 | 79 | 1.14 | 0.29 | 4.3 |
| 4/30/2015 0:25:52 | 53.15 | 48.05 | 73 | 1.14 | 0.29 | 4.0 |
| 4/30/2015 0:25:58 | 53.48 | 48.38 | 63 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 0:26:04 | 53.81 | 48.71 | 48 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 0:26:12 | 54.13 | 49.03 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 0:26:20 | 54.46 | 49.36 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 0:26:24 | 54.67 | 49.57 | 51 | 1.14 | 0.29 | 2.8 |

## K153 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:24:00

**End Date:**
4/30/2015 0:27:36

**Operator Note:**
'5.1 5.2 c Auto Complete'

**Northing:**
362,324.50

**Easting:**
245,646.60

**Tide (feet):**
5.10



## Hole: K155 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:35:03 | 36.42 | 30.32 | 1,210 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 9:35:03 | 36.75 | 30.65 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 9:35:03 | 37.07 | 30.97 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 9:35:03 | 37.40 | 31.30 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 9:35:04 | 37.73 | 31.63 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 9:35:04 | 38.06 | 31.96 | 1,203 | 0.30 | 0.38 | 65.8 |
| 4/30/2015 9:35:04 | 38.39 | 32.29 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 9:35:05 | 38.71 | 32.61 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 9:35:05 | 39.04 | 32.94 | 1,214 | 0.29 | 0.36 | 66.4 |
| 4/30/2015 9:35:06 | 39.37 | 33.27 | 1,214 | 0.29 | 0.36 | 66.4 |
| 4/30/2015 9:35:06 | 39.70 | 33.60 | 1,214 | 0.29 | 0.38 | 66.4 |
| 4/30/2015 9:35:06 | 40.03 | 33.93 | 1,214 | 0.29 | 0.38 | 66.4 |
| 4/30/2015 9:35:06 | 40.35 | 34.25 | 1,217 | 0.29 | 0.38 | 66.5 |
| 4/30/2015 9:35:07 | 40.68 | 34.58 | 1,217 | 0.29 | 0.38 | 66.5 |
| 4/30/2015 9:35:07 | 41.01 | 34.91 | 1,207 | 0.29 | 0.38 | 66.0 |
| 4/30/2015 9:35:07 | 41.34 | 35.24 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 9:35:08 | 41.67 | 35.57 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 9:35:08 | 41.99 | 35.89 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 9:35:08 | 42.32 | 36.22 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 9:35:08 | 42.65 | 36.55 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 9:35:09 | 42.98 | 36.88 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 9:35:09 | 43.31 | 37.21 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 9:35:09 | 43.64 | 37.54 | 1,224 | 0.29 | 0.39 | 67.0 |
| 4/30/2015 9:35:10 | 43.96 | 37.86 | 1,224 | 0.29 | 0.39 | 67.0 |
| 4/30/2015 9:35:10 | 44.29 | 38.19 | 1,186 | 0.29 | 0.37 | 64.9 |
| 4/30/2015 9:35:10 | 44.62 | 38.52 | 1,186 | 0.29 | 0.37 | 64.9 |
| 4/30/2015 9:35:10 | 44.95 | 38.85 | 1,186 | 0.29 | 0.37 | 64.9 |
| 4/30/2015 9:35:11 | 45.28 | 39.18 | 1,186 | 0.29 | 0.37 | 64.9 |
| 4/30/2015 9:35:11 | 45.60 | 39.50 | 1,201 | 0.29 | 0.40 | 65.7 |
| 4/30/2015 9:35:11 | 45.93 | 39.83 | 1,201 | 0.29 | 0.40 | 65.7 |
| 4/30/2015 9:35:11 | 46.26 | 40.16 | 1,214 | 0.29 | 0.38 | 66.4 |
| 4/30/2015 9:35:12 | 46.59 | 40.49 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 9:35:12 | 46.92 | 40.82 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 9:35:12 | 47.24 | 41.14 | 1,207 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 9:35:13 | 47.57 | 41.47 | 1,207 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 9:35:13 | 47.90 | 41.80 | 1,237 | 0.30 | 0.37 | 67.7 |
| 4/30/2015 9:35:13 | 48.23 | 42.13 | 1,237 | 0.30 | 0.37 | 67.7 |
| 4/30/2015 9:35:13 | 48.56 | 42.46 | 1,211 | 0.33 | 0.37 | 66.2 |
| 4/30/2015 9:35:14 | 48.88 | 42.78 | 1,206 | 0.32 | 0.38 | 65.9 |
| 4/30/2015 9:35:14 | 49.21 | 43.11 | 1,206 | 0.32 | 0.38 | 65.9 |
| 4/30/2015 9:35:14 | 49.54 | 43.44 | 1,200 | 0.32 | 0.38 | 65.6 |
| 4/30/2015 9:35:15 | 49.87 | 43.77 | 1,200 | 0.32 | 0.38 | 65.6 |
| 4/30/2015 9:35:15 | 50.20 | 44.10 | 1,197 | 0.31 | 0.38 | 65.5 |
| 4/30/2015 9:35:16 | 50.53 | 44.43 | 1,197 | 0.31 | 0.38 | 65.5 |
| 4/30/2015 9:35:16 | 50.85 | 44.75 | 1,195 | 0.27 | 0.38 | 65.3 |
| 4/30/2015 9:35:16 | 51.18 | 45.08 | 1,205 | 0.30 | 0.38 | 65.9 |
| 4/30/2015 9:35:17 | 51.51 | 45.41 | 1,205 | 0.30 | 0.38 | 65.9 |
| 4/30/2015 9:35:17 | 51.84 | 45.74 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:35:17 | 52.17 | 46.07 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:35:17 | 52.49 | 46.39 | 1,197 | 0.30 | 0.34 | 65.4 |
| 4/30/2015 9:35:18 | 52.82 | 46.72 | 1,197 | 0.30 | 0.34 | 65.4 |
| 4/30/2015 9:35:18 | 53.15 | 47.05 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:35:18 | 53.48 | 47.38 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:35:19 | 53.81 | 47.71 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:35:19 | 54.13 | 48.03 | 1,197 | 0.27 | 0.37 | 65.4 |
| 4/30/2015 9:35:19 | 54.46 | 48.36 | 1,197 | 0.27 | 0.37 | 65.4 |
| 4/30/2015 9:35:19 | 54.79 | 48.69 | 1,194 | 0.26 | 0.43 | 65.3 |
| 4/30/2015 9:35:28 | 55.12 | 49.02 | 74 | 4.86 | 0.48 | 4.0 |
| 4/30/2015 9:35:30 | 55.45 | 49.35 | 82 | 2.37 | 0.41 | 4.5 |
| 4/30/2015 9:35:32 | 55.77 | 49.67 | 174 | 3.91 | 0.44 | 9.5 |
| 4/30/2015 9:35:34 | 56.10 | 50.00 | 182 | 3.32 | 0.47 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:35:39 | 56.43 | 50.33 | 0 | 2.89 | 0.43 | 0.0 |
| 4/30/2015 | 9:35:40 | 56.76 | 50.66 | 123 | 3.33 | 0.47 | 6.8 |
| 4/30/2015 | 9:35:51 | 57.09 | 50.99 | 96 | 7.85 | 0.45 | 5.3 |
| 4/30/2015 | 9:37:03 | 57.41 | 51.31 | 0 | 3.69 | 0.43 | 0.0 |
| 4/30/2015 | 9:37:04 | 57.74 | 51.64 | 31 | 3.88 | 0.45 | 1.7 |
| 4/30/2015 | 9:37:06 | 58.07 | 51.97 | 172 | 4.39 | 0.46 | 9.4 |
| 4/30/2015 | 9:37:09 | 58.40 | 52.30 | 114 | 3.69 | 0.44 | 6.3 |
| 4/30/2015 | 9:37:13 | 58.73 | 52.63 | 105 | 3.30 | 0.46 | 5.7 |
| 4/30/2015 | 9:37:16 | 59.06 | 52.96 | 110 | 3.65 | 0.46 | 6.0 |
| 4/30/2015 | 9:37:26 | 59.38 | 53.28 | 35 | 2.91 | 0.47 | 1.9 |
| 4/30/2015 | 9:37:35 | 59.71 | 53.61 | 38 | 2.82 | 0.47 | 2.1 |
| 4/30/2015 | 9:37:45 | 60.04 | 53.94 | 33 | 2.69 | 0.47 | 1.8 |
| 4/30/2015 | 9:37:51 | 60.23 | 54.13 | 34 | 2.76 | 0.47 | 1.9 |

## K155 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:33:14

**End Date:**
4/30/2015 9:39:10

**Operator Note:**
'6.1 5.9 b Rock'

**Northing:**
361,227.30

**Easting:**
244,398.30

**Tide (feet):**
6.10



## Hole: K156 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:50:52 | 36.42 | 30.22 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 9:50:53 | 36.75 | 30.55 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 9:50:53 | 37.07 | 30.87 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 9:50:54 | 37.40 | 31.20 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 9:50:54 | 37.73 | 31.53 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 9:50:54 | 38.06 | 31.86 | 1,186 | 0.29 | 0.38 | 64.9 |
| 4/30/2015 9:50:55 | 38.39 | 32.19 | 1,186 | 0.29 | 0.38 | 64.9 |
| 4/30/2015 9:50:55 | 38.71 | 32.51 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:50:55 | 39.04 | 32.84 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:50:55 | 39.37 | 33.17 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:50:56 | 39.70 | 33.50 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:50:56 | 40.03 | 33.83 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:50:56 | 40.35 | 34.15 | 1,199 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 9:50:57 | 40.68 | 34.48 | 1,199 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 9:50:57 | 41.01 | 34.81 | 1,212 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 9:50:57 | 41.34 | 35.14 | 1,212 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 9:50:57 | 41.67 | 35.47 | 1,183 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 9:50:58 | 41.99 | 35.79 | 1,183 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 9:50:58 | 42.32 | 36.12 | 1,183 | 0.29 | 0.38 | 64.7 |
| 4/30/2015 9:50:58 | 42.65 | 36.45 | 1,195 | 0.29 | 0.36 | 65.4 |
| 4/30/2015 9:50:59 | 42.98 | 36.78 | 1,195 | 0.29 | 0.36 | 65.4 |
| 4/30/2015 9:50:59 | 43.31 | 37.11 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:50:59 | 43.64 | 37.44 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:50:59 | 43.96 | 37.76 | 1,202 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 9:51:00 | 44.29 | 38.09 | 1,202 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 9:51:00 | 44.62 | 38.42 | 1,199 | 0.28 | 0.37 | 65.6 |
| 4/30/2015 9:51:00 | 44.95 | 38.75 | 1,218 | 0.29 | 0.37 | 66.6 |
| 4/30/2015 9:51:01 | 45.28 | 39.08 | 1,218 | 0.29 | 0.37 | 66.6 |
| 4/30/2015 9:51:01 | 45.60 | 39.40 | 1,215 | 0.34 | 0.35 | 66.4 |
| 4/30/2015 9:51:01 | 45.93 | 39.73 | 1,215 | 0.34 | 0.35 | 66.4 |
| 4/30/2015 9:51:01 | 46.26 | 40.06 | 1,205 | 0.34 | 0.38 | 65.9 |
| 4/30/2015 9:51:02 | 46.59 | 40.39 | 1,205 | 0.34 | 0.38 | 65.9 |
| 4/30/2015 9:51:02 | 46.92 | 40.72 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:51:02 | 47.24 | 41.04 | 1,193 | 0.33 | 0.38 | 65.2 |
| 4/30/2015 9:51:03 | 47.57 | 41.37 | 1,193 | 0.33 | 0.38 | 65.2 |
| 4/30/2015 9:51:03 | 47.90 | 41.70 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:04 | 48.23 | 42.03 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:04 | 48.56 | 42.36 | 1,193 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 9:51:04 | 48.88 | 42.68 | 1,193 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 9:51:04 | 49.21 | 43.01 | 1,197 | 0.30 | 0.38 | 65.4 |
| 4/30/2015 9:51:05 | 49.54 | 43.34 | 1,200 | 0.33 | 0.38 | 65.6 |
| 4/30/2015 9:51:05 | 49.87 | 43.67 | 1,200 | 0.33 | 0.38 | 65.6 |
| 4/30/2015 9:51:05 | 50.20 | 44.00 | 1,207 | 0.32 | 0.37 | 66.0 |
| 4/30/2015 9:51:06 | 50.53 | 44.33 | 1,207 | 0.32 | 0.37 | 66.0 |
| 4/30/2015 9:51:06 | 50.85 | 44.65 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:51:06 | 51.18 | 44.98 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:51:06 | 51.51 | 45.31 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 9:51:07 | 51.84 | 45.64 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 9:51:07 | 52.17 | 45.97 | 1,200 | 0.29 | 0.37 | 65.6 |
| 4/30/2015 9:51:07 | 52.49 | 46.29 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:08 | 52.82 | 46.62 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:08 | 53.15 | 46.95 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:08 | 53.48 | 47.28 | 1,202 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 9:51:08 | 53.81 | 47.61 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 9:51:09 | 54.13 | 47.93 | 1,187 | 0.26 | 0.43 | 64.9 |
| 4/30/2015 9:51:17 | 54.46 | 48.26 | 0 | 2.51 | 0.42 | 0.0 |
| 4/30/2015 9:51:20 | 54.79 | 48.59 | 179 | 4.66 | 0.44 | 9.8 |
| 4/30/2015 9:51:30 | 55.12 | 48.92 | 55 | 7.61 | 0.46 | 3.0 |
| 4/30/2015 9:52:03 | 55.45 | 49.25 | 0 | 4.26 | 0.45 | 0.0 |
| 4/30/2015 9:52:08 | 55.77 | 49.57 | 32 | 4.00 | 0.47 | 1.8 |
| 4/30/2015 9:52:10 | 56.10 | 49.90 | 168 | 3.56 | 0.46 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:52:17 | 56.43 | 50.23 | 32 | 3.65 | 0.46 | 1.8 |
| 4/30/2015 | 9:52:20 | 56.76 | 50.56 | 133 | 3.37 | 0.46 | 7.3 |
| 4/30/2015 | 9:52:23 | 57.09 | 50.89 | 133 | 3.57 | 0.46 | 7.3 |
| 4/30/2015 | 9:52:25 | 57.41 | 51.21 | 162 | 3.67 | 0.47 | 8.8 |
| 4/30/2015 | 9:52:28 | 57.74 | 51.54 | 136 | 3.12 | 0.46 | 7.4 |
| 4/30/2015 | 9:52:31 | 58.07 | 51.87 | 103 | 3.68 | 0.46 | 5.7 |
| 4/30/2015 | 9:52:34 | 58.40 | 52.20 | 133 | 3.36 | 0.46 | 7.3 |
| 4/30/2015 | 9:52:37 | 58.73 | 52.53 | 110 | 3.49 | 0.46 | 6.0 |
| 4/30/2015 | 9:52:40 | 59.06 | 52.86 | 113 | 3.26 | 0.46 | 6.2 |
| 4/30/2015 | 9:52:42 | 59.38 | 53.18 | 142 | 3.65 | 0.46 | 7.8 |
| 4/30/2015 | 9:52:49 | 59.71 | 53.51 | 40 | 3.11 | 0.46 | 2.2 |
| 4/30/2015 | 9:52:52 | 60.04 | 53.84 | 121 | 3.39 | 0.46 | 6.6 |
| 4/30/2015 | 9:52:54 | 60.37 | 54.17 | 123 | 3.24 | 0.46 | 6.7 |
| 4/30/2015 | 9:52:58 | 60.70 | 54.50 | 103 | 3.58 | 0.46 | 5.6 |
| 4/30/2015 | 9:53:05 | 61.02 | 54.82 | 42 | 3.13 | 0.47 | 2.3 |
| 4/30/2015 | 9:53:06 | 61.08 | 54.88 | 45 | 3.03 | 0.47 | 2.5 |

## K156 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:49:06

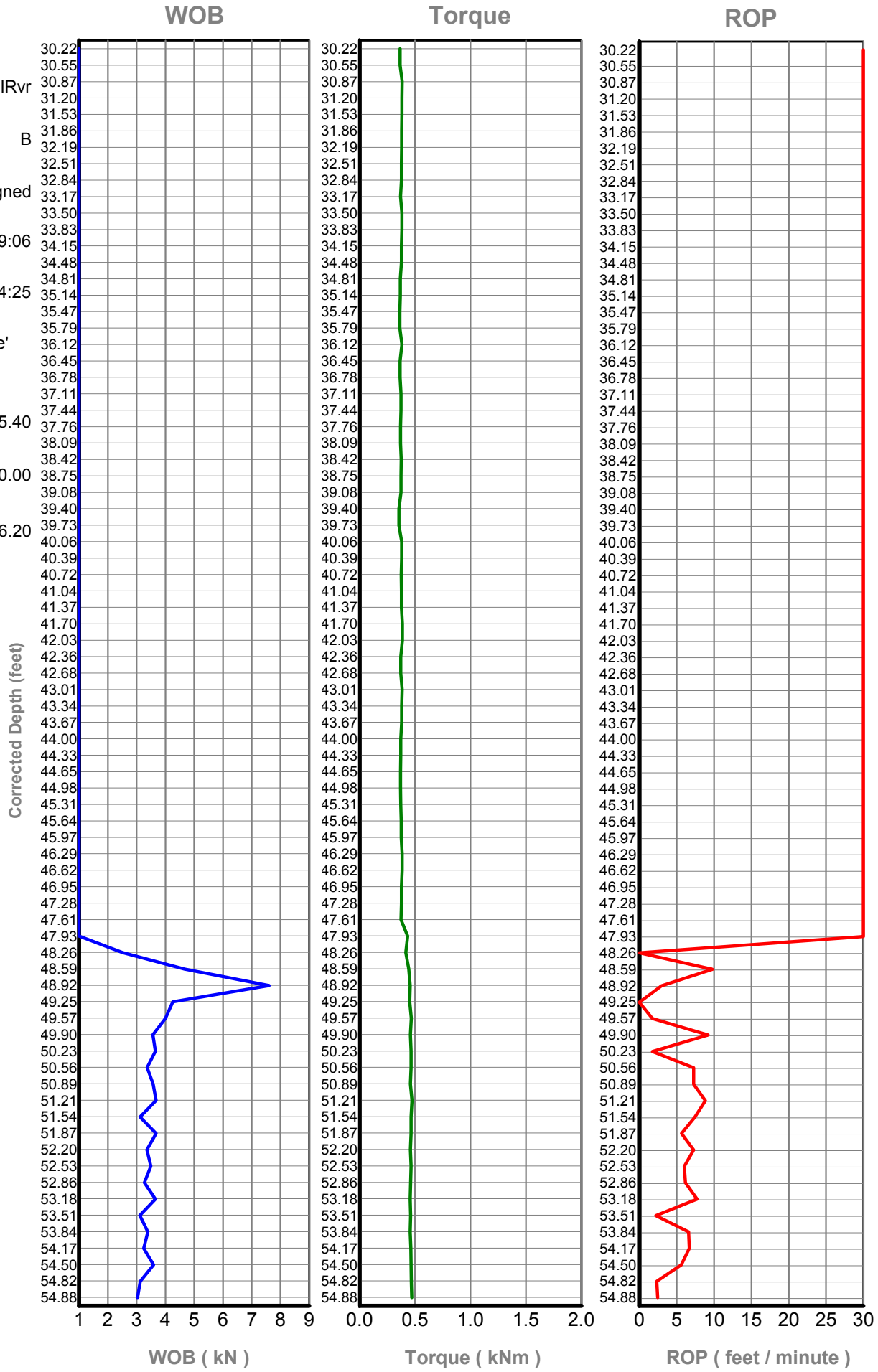
**End Date:**
4/30/2015 9:54:25

**Operator Note:**
'6.2 6.1 b Auto Complete'

**Northing:**
361,275.40

**Easting:**
244,460.00

**Tide (feet):**
6.20



## Hole: K157 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:19:11 | 36.09 | 30.29 | 901 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 12:19:11 | 36.42 | 30.62 | 916 | 1.12 | 0.15 | 50.1 |
| 4/30/2015 12:19:11 | 36.75 | 30.95 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 12:19:12 | 37.07 | 31.27 | 907 | 1.14 | 0.15 | 49.6 |
| 4/30/2015 12:19:12 | 37.40 | 31.60 | 907 | 1.14 | 0.15 | 49.6 |
| 4/30/2015 12:19:12 | 37.73 | 31.93 | 905 | 1.13 | 0.15 | 49.5 |
| 4/30/2015 12:19:13 | 38.06 | 32.26 | 908 | 1.14 | 0.15 | 49.6 |
| 4/30/2015 12:19:13 | 38.39 | 32.59 | 908 | 1.13 | 0.15 | 49.6 |
| 4/30/2015 12:19:14 | 38.71 | 32.91 | 908 | 1.13 | 0.15 | 49.6 |
| 4/30/2015 12:19:14 | 39.04 | 33.24 | 908 | 1.11 | 0.15 | 49.6 |
| 4/30/2015 12:19:15 | 39.37 | 33.57 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 12:19:15 | 39.70 | 33.90 | 908 | 1.14 | 0.15 | 49.6 |
| 4/30/2015 12:19:16 | 40.03 | 34.23 | 908 | 1.14 | 0.15 | 49.6 |
| 4/30/2015 12:19:16 | 40.35 | 34.55 | 908 | 1.13 | 0.16 | 49.6 |
| 4/30/2015 12:19:16 | 40.68 | 34.88 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 12:19:17 | 41.01 | 35.21 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 12:19:17 | 41.34 | 35.54 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 12:19:17 | 41.67 | 35.87 | 897 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 12:19:18 | 41.99 | 36.19 | 894 | 1.15 | 0.15 | 48.9 |
| 4/30/2015 12:19:18 | 42.32 | 36.52 | 896 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 12:19:19 | 42.65 | 36.85 | 896 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 12:19:19 | 42.98 | 37.18 | 894 | 1.14 | 0.15 | 48.9 |
| 4/30/2015 12:19:19 | 43.31 | 37.51 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 12:19:20 | 43.64 | 37.84 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 12:19:20 | 43.96 | 38.16 | 901 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 12:19:21 | 44.29 | 38.49 | 901 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 12:19:21 | 44.62 | 38.82 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 12:19:21 | 44.95 | 39.15 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 12:19:22 | 45.28 | 39.48 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 12:19:22 | 45.60 | 39.80 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 12:19:22 | 45.93 | 40.13 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 12:19:23 | 46.26 | 40.46 | 888 | 1.14 | 0.15 | 48.6 |
| 4/30/2015 12:19:23 | 46.59 | 40.79 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 12:19:24 | 46.92 | 41.12 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 12:19:24 | 47.24 | 41.44 | 890 | 1.14 | 0.15 | 48.7 |
| 4/30/2015 12:19:25 | 47.57 | 41.77 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 12:19:25 | 47.90 | 42.10 | 887 | 1.13 | 0.15 | 48.5 |
| 4/30/2015 12:19:26 | 48.23 | 42.43 | 895 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 12:19:26 | 48.56 | 42.76 | 895 | 1.13 | 0.15 | 49.0 |
| 4/30/2015 12:19:26 | 48.88 | 43.08 | 890 | 1.14 | 0.15 | 48.7 |
| 4/30/2015 12:19:27 | 49.21 | 43.41 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 12:19:27 | 49.54 | 43.74 | 890 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 12:19:28 | 49.87 | 44.07 | 890 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 12:19:28 | 50.20 | 44.40 | 893 | 1.15 | 0.15 | 48.8 |
| 4/30/2015 12:19:28 | 50.53 | 44.73 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 12:19:29 | 50.85 | 45.05 | 887 | 1.14 | 0.15 | 48.5 |
| 4/30/2015 12:19:29 | 51.18 | 45.38 | 882 | 1.11 | 0.15 | 48.2 |
| 4/30/2015 12:19:30 | 51.51 | 45.71 | 882 | 1.11 | 0.15 | 48.2 |
| 4/30/2015 12:19:30 | 51.84 | 46.04 | 882 | 1.14 | 0.15 | 48.2 |
| 4/30/2015 12:19:30 | 52.17 | 46.37 | 879 | 1.15 | 0.15 | 48.1 |
| 4/30/2015 12:19:31 | 52.49 | 46.69 | 866 | 1.22 | 0.15 | 47.4 |
| 4/30/2015 12:20:16 | 52.82 | 47.02 | 0 | 1.28 | 0.66 | 0.0 |
| 4/30/2015 12:20:18 | 53.15 | 47.35 | 132 | 1.16 | 0.81 | 7.2 |
| 4/30/2015 12:20:18 | 53.48 | 47.68 | 241 | 1.15 | 0.82 | 13.2 |
| 4/30/2015 12:20:19 | 53.81 | 48.01 | 350 | 1.14 | 0.66 | 19.1 |
| 4/30/2015 12:20:19 | 54.13 | 48.33 | 473 | 1.13 | 0.71 | 25.9 |
| 4/30/2015 12:20:20 | 54.46 | 48.66 | 561 | 1.14 | 0.76 | 30.7 |
| 4/30/2015 12:20:21 | 54.79 | 48.99 | 566 | 1.17 | 1.04 | 31.0 |
| 4/30/2015 12:20:22 | 55.12 | 49.32 | 321 | 1.09 | 1.32 | 17.6 |
| 4/30/2015 12:20:26 | 55.45 | 49.65 | 81 | 1.07 | 1.13 | 4.4 |
| 4/30/2015 12:20:28 | 55.77 | 49.97 | 215 | 2.04 | 1.19 | 11.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:20:30 | 56.10 | 50.30 | 213 | 1.11 | 1.13 | 11.7 |
| 4/30/2015 | 12:20:34 | 56.43 | 50.63 | 80 | 1.09 | 1.21 | 4.4 |
| 4/30/2015 | 12:20:38 | 56.76 | 50.96 | 107 | 1.02 | 1.17 | 5.8 |
| 4/30/2015 | 12:20:43 | 57.09 | 51.29 | 55 | 1.08 | 1.10 | 3.0 |
| 4/30/2015 | 12:20:50 | 57.41 | 51.61 | 52 | 1.06 | 1.27 | 2.8 |
| 4/30/2015 | 12:20:56 | 57.74 | 51.94 | 61 | 1.08 | 1.26 | 3.3 |
| 4/30/2015 | 12:20:59 | 58.07 | 52.27 | 104 | 1.04 | 1.43 | 5.7 |
| 4/30/2015 | 12:21:03 | 58.40 | 52.60 | 93 | 1.08 | 1.32 | 5.1 |
| 4/30/2015 | 12:21:05 | 58.73 | 52.93 | 126 | 1.04 | 1.37 | 6.9 |
| 4/30/2015 | 12:21:08 | 59.06 | 53.26 | 133 | 1.07 | 1.11 | 7.3 |
| 4/30/2015 | 12:21:13 | 59.38 | 53.58 | 43 | 1.06 | 0.96 | 2.4 |
| 4/30/2015 | 12:21:26 | 59.71 | 53.91 | 27 | 1.09 | 1.04 | 1.5 |
| 4/30/2015 | 12:21:38 | 60.04 | 54.24 | 29 | 1.06 | 1.00 | 1.6 |
| 4/30/2015 | 12:21:45 | 60.37 | 54.57 | 81 | 1.09 | 1.11 | 4.4 |
| 4/30/2015 | 12:21:55 | 60.70 | 54.90 | 32 | 1.07 | 1.12 | 1.7 |
| 4/30/2015 | 12:22:02 | 60.88 | 55.08 | 6 | 1.67 | 1.30 | 0.3 |

## K157 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:17:37

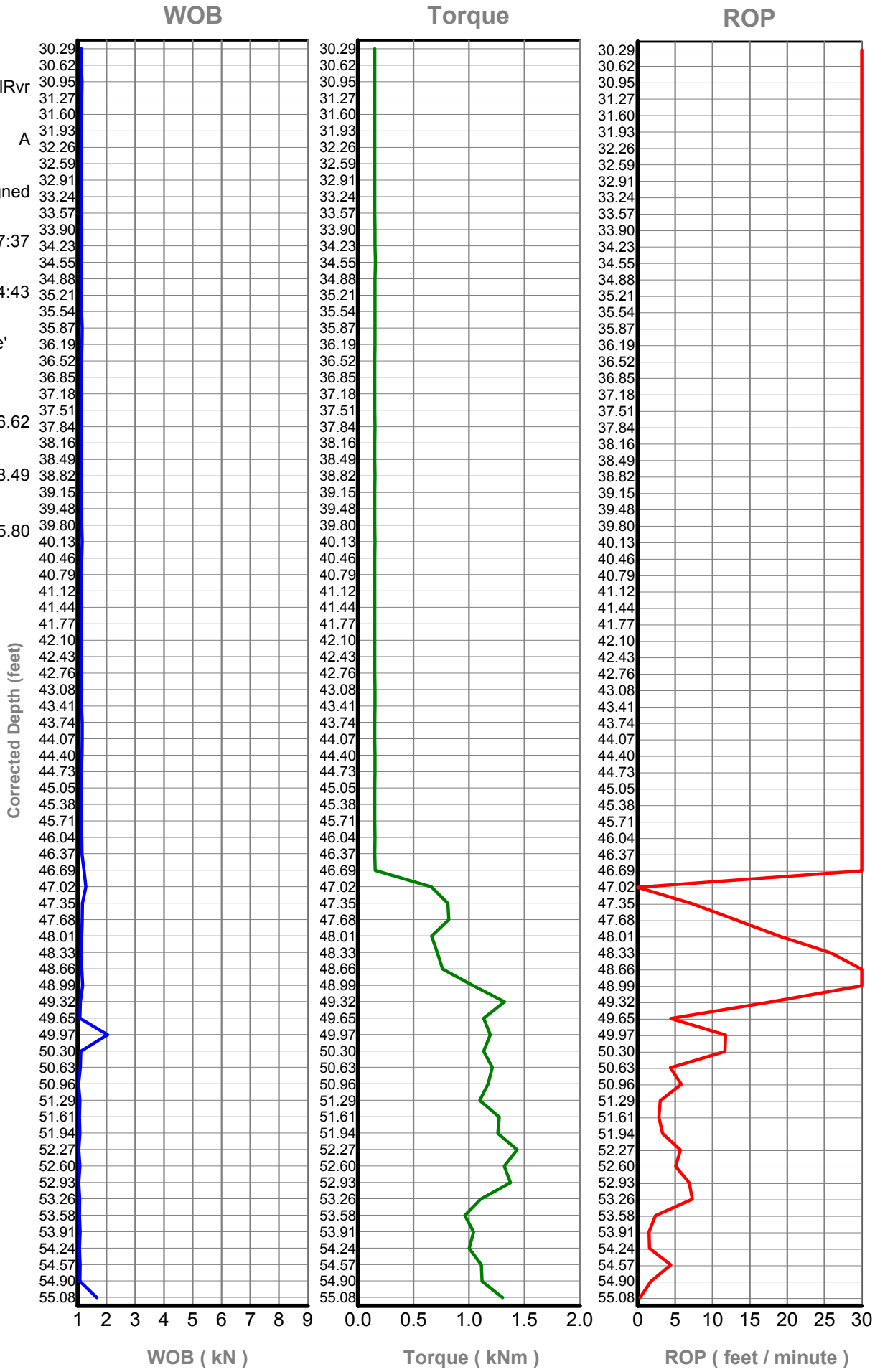
**End Date:**
4/30/2015 12:24:43

**Operator Note:**
'5.8 5.9 a Auto Complete'

**Northing:**
361,326.62

**Easting:**
244,528.49

**Tide (feet):**
5.80



## Hole: K158 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:18:27 | 36.09 | 30.29 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 12:18:27 | 36.42 | 30.62 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:18:27 | 36.75 | 30.95 | 1,195 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:18:27 | 37.07 | 31.27 | 1,185 | 0.16 | 0.37 | 64.8 |
| 4/30/2015 12:18:28 | 37.40 | 31.60 | 1,185 | 0.16 | 0.37 | 64.8 |
| 4/30/2015 12:18:28 | 37.73 | 31.93 | 1,184 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 12:18:28 | 38.06 | 32.26 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:18:29 | 38.39 | 32.59 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:18:29 | 38.71 | 32.91 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:18:29 | 39.04 | 33.24 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:18:29 | 39.37 | 33.57 | 1,197 | 0.29 | 0.35 | 65.5 |
| 4/30/2015 12:18:30 | 39.70 | 33.90 | 1,197 | 0.29 | 0.35 | 65.5 |
| 4/30/2015 12:18:30 | 40.03 | 34.23 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:18:30 | 40.35 | 34.55 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:18:31 | 40.68 | 34.88 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:18:31 | 41.01 | 35.21 | 1,168 | 0.29 | 0.38 | 63.9 |
| 4/30/2015 12:18:31 | 41.34 | 35.54 | 1,168 | 0.29 | 0.38 | 63.9 |
| 4/30/2015 12:18:31 | 41.67 | 35.87 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 12:18:32 | 41.99 | 36.19 | 1,186 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:18:32 | 42.32 | 36.52 | 1,186 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:18:32 | 42.65 | 36.85 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 12:18:33 | 42.98 | 37.18 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 12:18:33 | 43.31 | 37.51 | 1,183 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 12:18:33 | 43.64 | 37.84 | 1,183 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 12:18:33 | 43.96 | 38.16 | 1,193 | 0.29 | 0.36 | 65.3 |
| 4/30/2015 12:18:34 | 44.29 | 38.49 | 1,211 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:18:34 | 44.62 | 38.82 | 1,211 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:18:34 | 44.95 | 39.15 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:18:35 | 45.28 | 39.48 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:18:35 | 45.60 | 39.80 | 1,200 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 12:18:36 | 45.93 | 40.13 | 1,200 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 12:18:36 | 46.26 | 40.46 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 12:18:36 | 46.59 | 40.79 | 1,186 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 12:18:37 | 46.92 | 41.12 | 1,186 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 12:18:37 | 47.24 | 41.44 | 1,210 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:18:37 | 47.57 | 41.77 | 1,210 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:18:37 | 47.90 | 42.10 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:18:38 | 48.23 | 42.43 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:18:38 | 48.56 | 42.76 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 12:18:38 | 48.88 | 43.08 | 1,195 | 0.29 | 0.36 | 65.3 |
| 4/30/2015 12:18:39 | 49.21 | 43.41 | 1,195 | 0.29 | 0.36 | 65.3 |
| 4/30/2015 12:18:39 | 49.54 | 43.74 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:18:39 | 49.87 | 44.07 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:18:39 | 50.20 | 44.40 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/30/2015 12:18:40 | 50.53 | 44.73 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/30/2015 12:18:40 | 50.85 | 45.05 | 1,186 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:18:40 | 51.18 | 45.38 | 1,166 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 12:18:41 | 51.51 | 45.71 | 1,166 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 12:18:41 | 51.84 | 46.04 | 1,166 | 0.27 | 0.42 | 63.8 |
| 4/30/2015 12:18:49 | 52.17 | 46.37 | 0 | 2.26 | 0.39 | 0.0 |
| 4/30/2015 12:18:51 | 52.49 | 46.69 | 65 | 5.22 | 0.46 | 3.5 |
| 4/30/2015 12:18:52 | 52.82 | 47.02 | 138 | 3.78 | 0.44 | 7.5 |
| 4/30/2015 12:18:53 | 53.15 | 47.35 | 259 | 4.11 | 0.47 | 14.2 |
| 4/30/2015 12:18:57 | 53.48 | 47.68 | 123 | 4.07 | 0.46 | 6.7 |
| 4/30/2015 12:19:01 | 53.81 | 48.01 | 70 | 4.00 | 0.45 | 3.8 |
| 4/30/2015 12:19:06 | 54.13 | 48.33 | 47 | 3.71 | 0.46 | 2.6 |
| 4/30/2015 12:19:13 | 54.46 | 48.66 | 89 | 2.97 | 0.46 | 4.9 |
| 4/30/2015 12:19:18 | 54.79 | 48.99 | 81 | 3.44 | 0.47 | 4.4 |
| 4/30/2015 12:19:21 | 55.12 | 49.32 | 113 | 3.60 | 0.46 | 6.2 |
| 4/30/2015 12:19:29 | 55.45 | 49.65 | 52 | 3.04 | 0.46 | 2.8 |
| 4/30/2015 12:19:35 | 55.77 | 49.97 | 49 | 3.02 | 0.46 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:19:44 | 56.10 | 50.30 | 44 | 3.05 | 0.47 | 2.4 |
| 4/30/2015 | 12:19:46 | 56.22 | 50.42 | 43 | 2.86 | 0.46 | 2.4 |

## K158 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:16:42

**End Date:**
4/30/2015 12:20:48

**Operator Note:**
'5.8 5.9 b Rock'

**Northing:**
361,376.18

**Easting:**
244,584.78

**Tide (feet):**
5.80



## Hole: K159 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:18:16 | 36.09 | 30.29 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 12:18:17 | 36.42 | 30.62 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:18:18 | 36.75 | 30.95 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 12:18:18 | 37.07 | 31.27 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 12:18:18 | 37.40 | 31.60 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 12:18:19 | 37.73 | 31.93 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 12:18:19 | 38.06 | 32.26 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 12:18:19 | 38.39 | 32.59 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 12:18:19 | 38.71 | 32.91 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:18:20 | 39.04 | 33.24 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:18:20 | 39.37 | 33.57 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:18:20 | 39.70 | 33.90 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:18:21 | 40.03 | 34.23 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:18:21 | 40.35 | 34.55 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:18:21 | 40.68 | 34.88 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:18:22 | 41.01 | 35.21 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:18:22 | 41.34 | 35.54 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:18:22 | 41.67 | 35.87 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:23 | 41.99 | 36.19 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:23 | 42.32 | 36.52 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:18:23 | 42.65 | 36.85 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:18:24 | 42.98 | 37.18 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:18:24 | 43.31 | 37.51 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:18:24 | 43.64 | 37.84 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:18:25 | 43.96 | 38.16 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:18:25 | 44.29 | 38.49 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:18:25 | 44.62 | 38.82 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 12:18:25 | 44.95 | 39.15 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 12:18:26 | 45.28 | 39.48 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:26 | 45.60 | 39.80 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:26 | 45.93 | 40.13 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:18:27 | 46.26 | 40.46 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:27 | 46.59 | 40.79 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:18:27 | 46.92 | 41.12 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 12:18:28 | 47.24 | 41.44 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:18:28 | 47.57 | 41.77 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:18:28 | 47.90 | 42.10 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:18:29 | 48.23 | 42.43 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:18:29 | 48.56 | 42.76 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:18:30 | 48.88 | 43.08 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 12:18:30 | 49.21 | 43.41 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 12:18:30 | 49.54 | 43.74 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:18:44 | 49.87 | 44.07 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 12:18:45 | 50.20 | 44.40 | 176 | 1.14 | 0.29 | 9.6 |
| 4/30/2015 12:18:46 | 50.53 | 44.73 | 276 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 12:18:46 | 50.85 | 45.05 | 390 | 1.14 | 0.29 | 21.3 |
| 4/30/2015 12:18:47 | 51.18 | 45.38 | 525 | 1.14 | 0.29 | 28.7 |
| 4/30/2015 12:19:06 | 51.51 | 45.71 | 30 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 12:19:08 | 51.84 | 46.04 | 130 | 1.14 | 0.29 | 7.1 |
| 4/30/2015 12:19:14 | 52.17 | 46.37 | 68 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 12:19:20 | 52.49 | 46.69 | 62 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 12:19:25 | 52.82 | 47.02 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 12:19:32 | 53.15 | 47.35 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 12:19:39 | 53.48 | 47.68 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 12:19:44 | 53.77 | 47.97 | 63 | 1.14 | 0.29 | 3.4 |

## K159 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:17:12

**End Date:**
4/30/2015 12:21:16

**Operator Note:**
'5.8 5.9 c Auto Complete'

**Northing:**
361,425.73

**Easting:**
244,641.07

**Tide (feet):**
5.80



## Hole: K16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:51:24 | 33.79 | 30.19 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:51:25 | 34.12 | 30.52 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:51:25 | 34.45 | 30.85 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:51:25 | 34.78 | 31.18 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:51:26 | 35.11 | 31.51 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:51:26 | 35.43 | 31.83 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:51:26 | 35.76 | 32.16 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:27 | 36.09 | 32.49 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:27 | 36.42 | 32.82 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:51:27 | 36.75 | 33.15 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:51:28 | 37.07 | 33.47 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:51:28 | 37.40 | 33.80 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:28 | 37.73 | 34.13 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:28 | 38.06 | 34.46 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:51:29 | 38.39 | 34.79 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:29 | 38.71 | 35.11 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:29 | 39.04 | 35.44 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:51:30 | 39.37 | 35.77 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:51:30 | 39.70 | 36.10 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:51:30 | 40.03 | 36.43 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:51:40 | 40.35 | 36.75 | 65 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 1:51:41 | 40.68 | 37.08 | 185 | 1.14 | 0.29 | 10.1 |
| 4/30/2015 1:51:42 | 41.01 | 37.41 | 376 | 1.14 | 0.29 | 20.6 |
| 4/30/2015 1:51:53 | 41.34 | 37.74 | 20 | 1.14 | 0.29 | 1.1 |
| 4/30/2015 1:51:55 | 41.67 | 38.07 | 169 | 1.14 | 0.29 | 9.2 |
| 4/30/2015 1:51:56 | 41.99 | 38.39 | 271 | 1.14 | 0.29 | 14.8 |
| 4/30/2015 1:52:07 | 42.32 | 38.72 | 20 | 1.14 | 0.29 | 1.1 |
| 4/30/2015 1:52:09 | 42.65 | 39.05 | 177 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 1:52:11 | 42.98 | 39.38 | 209 | 1.14 | 0.29 | 11.4 |
| 4/30/2015 1:52:13 | 43.31 | 39.71 | 148 | 1.14 | 0.29 | 8.1 |
| 4/30/2015 1:52:19 | 43.64 | 40.04 | 34 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 1:52:20 | 43.96 | 40.36 | 176 | 1.14 | 0.29 | 9.6 |
| 4/30/2015 1:52:21 | 44.29 | 40.69 | 176 | 1.14 | 0.29 | 9.6 |
| 4/30/2015 1:52:25 | 44.62 | 41.02 | 224 | 1.14 | 0.29 | 12.2 |
| 4/30/2015 1:52:25 | 44.95 | 41.35 | 256 | 1.14 | 0.29 | 14.0 |
| 4/30/2015 1:52:26 | 45.28 | 41.68 | 400 | 1.14 | 0.29 | 21.9 |
| 4/30/2015 1:52:26 | 45.60 | 42.00 | 540 | 1.14 | 0.29 | 29.5 |
| 4/30/2015 1:52:27 | 45.93 | 42.33 | 643 | 1.14 | 0.29 | 35.1 |
| 4/30/2015 1:52:30 | 46.26 | 42.66 | 82 | 1.14 | 0.29 | 4.5 |
| 4/30/2015 1:52:31 | 46.59 | 42.99 | 180 | 1.14 | 0.29 | 9.8 |
| 4/30/2015 1:52:33 | 46.92 | 43.32 | 389 | 1.14 | 0.29 | 21.3 |
| 4/30/2015 1:52:35 | 47.24 | 43.64 | 110 | 1.14 | 0.29 | 6.0 |
| 4/30/2015 1:52:36 | 47.57 | 43.97 | 189 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 1:52:38 | 47.90 | 44.30 | 285 | 1.14 | 0.29 | 15.6 |
| 4/30/2015 1:53:18 | 48.23 | 44.63 | 59 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 1:54:05 | 48.56 | 44.96 | 9 | 1.14 | 0.29 | 0.5 |
| 4/30/2015 1:54:09 | 48.88 | 45.28 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 1:54:13 | 49.21 | 45.61 | 88 | 1.14 | 0.29 | 4.8 |
| 4/30/2015 1:55:34 | 49.54 | 45.94 | 113 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 1:55:35 | 49.87 | 46.27 | 217 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 1:55:41 | 50.20 | 46.60 | 23 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 1:57:00 | 50.53 | 46.93 | 107 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 1:57:06 | 50.85 | 47.25 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 1:57:11 | 51.18 | 47.58 | 74 | 1.14 | 0.29 | 4.0 |
| 4/30/2015 1:57:17 | 51.51 | 47.91 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 1:57:32 | 51.84 | 48.24 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 1:57:36 | 52.05 | 48.45 | 58 | 1.14 | 0.29 | 3.2 |

## K16 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:50:26

**End Date:**
4/30/2015 2:05:52

**Operator Note:**
'3.6 3.8 c Auto Complete'

**Northing:**
362,524.80

**Easting:**
245,187.80

**Tide (feet):**
3.60



## Hole: K160 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:31:28 | 32.81 | 30.31 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 14:31:28 | 33.14 | 30.64 | 1,206 | 0.26 | 0.35 | 65.9 |
| 4/29/2015 14:31:28 | 33.46 | 30.96 | 1,206 | 0.26 | 0.35 | 65.9 |
| 4/29/2015 14:31:28 | 33.79 | 31.29 | 1,206 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 14:31:29 | 34.12 | 31.62 | 1,206 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 14:31:29 | 34.45 | 31.95 | 1,217 | 0.25 | 0.37 | 66.6 |
| 4/29/2015 14:31:29 | 34.78 | 32.28 | 1,217 | 0.25 | 0.37 | 66.6 |
| 4/29/2015 14:31:29 | 35.11 | 32.61 | 1,267 | 0.25 | 0.36 | 69.3 |
| 4/29/2015 14:31:30 | 35.43 | 32.93 | 1,236 | 0.26 | 0.37 | 67.6 |
| 4/29/2015 14:31:31 | 35.76 | 33.26 | 1,236 | 0.26 | 0.37 | 67.6 |
| 4/29/2015 14:31:30 | 36.09 | 33.59 | 1,230 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 14:31:31 | 36.42 | 33.92 | 1,230 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 14:31:31 | 36.75 | 34.25 | 1,230 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 14:31:32 | 37.07 | 34.57 | 1,230 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 14:31:31 | 37.40 | 34.90 | 1,236 | 0.25 | 0.38 | 67.6 |
| 4/29/2015 14:31:32 | 37.73 | 35.23 | 1,236 | 0.25 | 0.38 | 67.6 |
| 4/29/2015 14:31:32 | 38.06 | 35.56 | 1,236 | 0.26 | 0.36 | 67.6 |
| 4/29/2015 14:31:33 | 38.39 | 35.89 | 1,240 | 0.26 | 0.37 | 67.8 |
| 4/29/2015 14:31:33 | 38.71 | 36.21 | 1,240 | 0.26 | 0.37 | 67.8 |
| 4/29/2015 14:31:33 | 39.04 | 36.54 | 1,217 | 0.28 | 0.35 | 66.5 |
| 4/29/2015 14:31:34 | 39.37 | 36.87 | 1,217 | 0.28 | 0.35 | 66.5 |
| 4/29/2015 14:31:34 | 39.70 | 37.20 | 1,245 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 14:31:34 | 40.03 | 37.53 | 1,245 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 14:31:34 | 40.35 | 37.85 | 1,262 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 14:31:35 | 40.68 | 38.18 | 1,262 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 14:31:35 | 41.01 | 38.51 | 1,234 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 14:31:35 | 41.34 | 38.84 | 1,234 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 14:31:35 | 41.67 | 39.17 | 1,234 | 0.26 | 0.37 | 67.5 |
| 4/29/2015 14:31:36 | 41.99 | 39.49 | 1,221 | 0.26 | 0.37 | 66.8 |
| 4/29/2015 14:31:36 | 42.32 | 39.82 | 1,221 | 0.26 | 0.37 | 66.8 |
| 4/29/2015 14:31:36 | 42.65 | 40.15 | 1,221 | 0.25 | 0.37 | 66.8 |
| 4/29/2015 14:31:37 | 42.98 | 40.48 | 1,221 | 0.25 | 0.37 | 66.8 |
| 4/29/2015 14:31:37 | 43.31 | 40.81 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 14:31:37 | 43.64 | 41.14 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 14:31:37 | 43.96 | 41.46 | 1,228 | 0.25 | 0.37 | 67.1 |
| 4/29/2015 14:31:38 | 44.29 | 41.79 | 1,228 | 0.25 | 0.37 | 67.1 |
| 4/29/2015 14:31:38 | 44.62 | 42.12 | 1,241 | 0.25 | 0.37 | 67.9 |
| 4/29/2015 14:31:38 | 44.95 | 42.45 | 1,265 | 0.25 | 0.36 | 69.2 |
| 4/29/2015 14:31:39 | 45.28 | 42.78 | 1,265 | 0.25 | 0.36 | 69.2 |
| 4/29/2015 14:31:39 | 45.60 | 43.10 | 1,276 | 0.26 | 0.37 | 69.8 |
| 4/29/2015 14:31:39 | 45.93 | 43.43 | 1,276 | 0.26 | 0.37 | 69.8 |
| 4/29/2015 14:31:39 | 46.26 | 43.76 | 1,255 | 0.26 | 0.35 | 68.6 |
| 4/29/2015 14:31:40 | 46.59 | 44.09 | 1,255 | 0.26 | 0.35 | 68.6 |
| 4/29/2015 14:31:40 | 46.92 | 44.42 | 1,265 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 14:31:40 | 47.24 | 44.74 | 1,265 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 14:31:54 | 47.57 | 45.07 | 50 | 3.70 | 0.46 | 2.7 |
| 4/29/2015 14:31:58 | 47.90 | 45.40 | 97 | 3.71 | 0.44 | 5.3 |
| 4/29/2015 14:31:58 | 48.23 | 45.73 | 139 | 3.28 | 0.44 | 7.6 |
| 4/29/2015 14:32:04 | 48.56 | 46.06 | 0 | 4.92 | 0.45 | 0.0 |
| 4/29/2015 14:32:05 | 48.88 | 46.38 | 195 | 4.22 | 0.47 | 10.7 |
| 4/29/2015 14:32:07 | 49.21 | 46.71 | 246 | 4.30 | 0.45 | 13.4 |
| 4/29/2015 14:32:17 | 49.54 | 47.04 | 51 | 3.33 | 0.45 | 2.8 |
| 4/29/2015 14:32:22 | 49.87 | 47.37 | 53 | 3.50 | 0.46 | 2.9 |
| 4/29/2015 14:32:23 | 50.20 | 47.70 | 131 | 3.20 | 0.45 | 7.1 |
| 4/29/2015 14:32:26 | 50.53 | 48.03 | 200 | 3.62 | 0.46 | 10.9 |
| 4/29/2015 14:32:28 | 50.85 | 48.35 | 163 | 3.45 | 0.45 | 8.9 |
| 4/29/2015 14:32:30 | 51.18 | 48.68 | 159 | 3.29 | 0.45 | 8.7 |
| 4/29/2015 14:32:32 | 51.51 | 49.01 | 162 | 3.51 | 0.46 | 8.9 |
| 4/29/2015 14:32:35 | 51.84 | 49.34 | 133 | 3.83 | 0.46 | 7.3 |
| 4/29/2015 14:32:44 | 52.17 | 49.67 | 64 | 3.06 | 0.46 | 3.5 |
| 4/29/2015 14:32:49 | 52.49 | 49.99 | 84 | 3.78 | 0.46 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 14:32:53 | 52.82 | 50.32 | 74 | 3.57 | 0.46 | 4.1 |
| 4/29/2015 | 14:32:59 | 53.15 | 50.65 | 43 | 3.14 | 0.46 | 2.4 |
| 4/29/2015 | 14:33:04 | 53.48 | 50.98 | 66 | 2.72 | 0.46 | 3.6 |
| 4/29/2015 | 14:33:10 | 53.81 | 51.31 | 72 | 3.27 | 0.46 | 3.9 |
| 4/29/2015 | 14:33:13 | 54.13 | 51.63 | 84 | 2.57 | 0.42 | 4.6 |
| 4/29/2015 | 14:33:20 | 54.46 | 51.96 | 0 | 3.11 | 0.42 | 0.0 |
| 4/29/2015 | 14:33:27 | 54.79 | 52.29 | 61 | 3.18 | 0.46 | 3.3 |
| 4/29/2015 | 14:33:33 | 55.12 | 52.62 | 58 | 2.99 | 0.47 | 3.2 |
| 4/29/2015 | 14:33:40 | 55.45 | 52.95 | 52 | 2.72 | 0.46 | 2.8 |
| 4/29/2015 | 14:33:47 | 55.77 | 53.27 | 55 | 2.82 | 0.47 | 3.0 |
| 4/29/2015 | 14:33:51 | 56.04 | 53.54 | 60 | 3.22 | 0.45 | 3.3 |

## K160 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 14:29:51

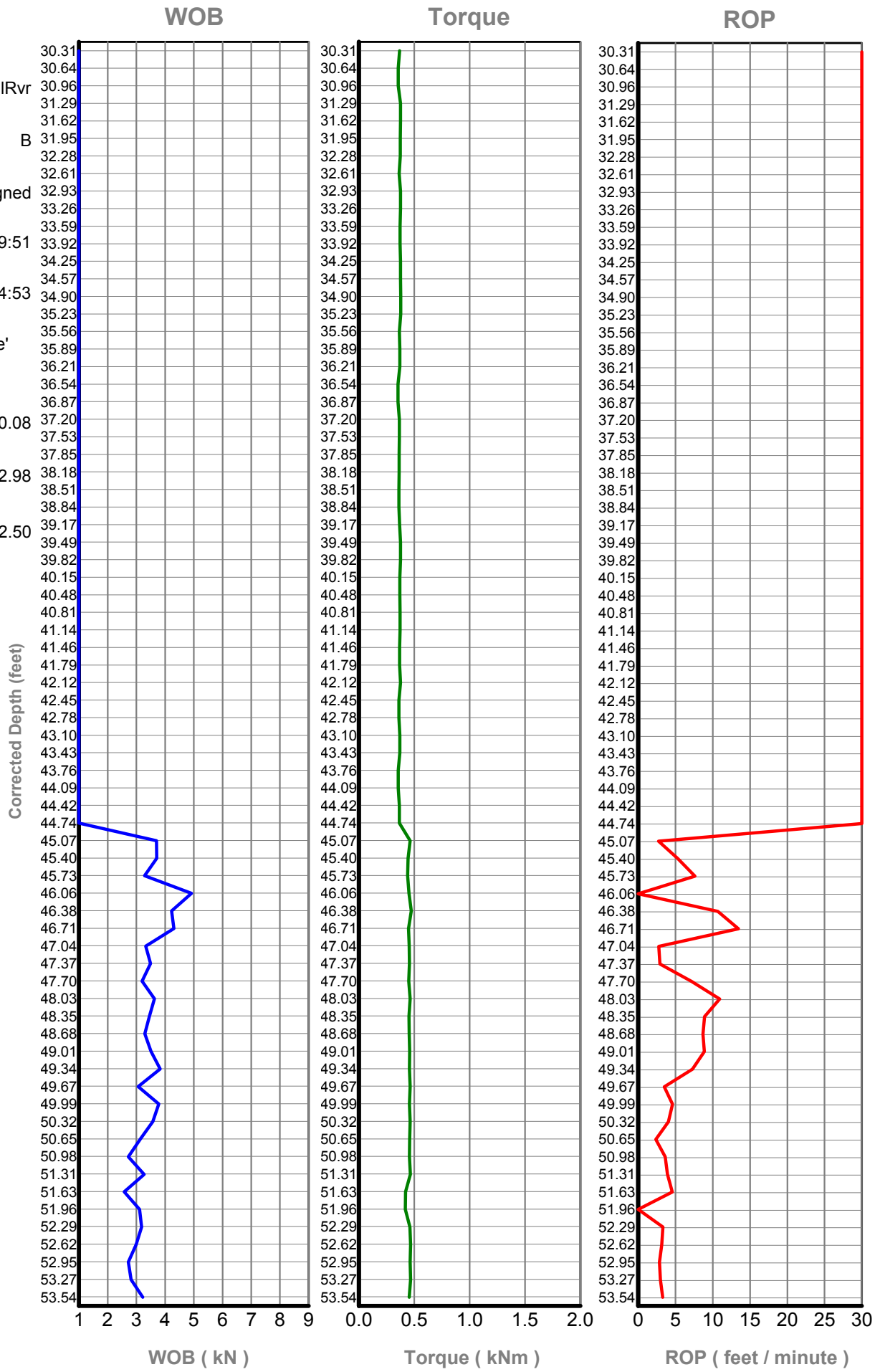
**End Date:**
4/29/2015 14:34:53

**Operator Note:**
'2.5 2.8 b Auto Complete'

**Northing:**
361,460.08

**Easting:**
244,722.98

**Tide (feet):**
2.50



## Hole: K161 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:18:57 | 32.81 | 30.21 | 1,246 | 0.25 | 0.38 | 68.1 |
| 4/29/2015 14:18:58 | 33.14 | 30.54 | 1,246 | 0.25 | 0.38 | 68.1 |
| 4/29/2015 14:18:58 | 33.46 | 30.86 | 1,239 | 0.21 | 0.37 | 67.7 |
| 4/29/2015 14:18:58 | 33.79 | 31.19 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 14:18:59 | 34.12 | 31.52 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 14:18:59 | 34.45 | 31.85 | 1,252 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 14:18:59 | 34.78 | 32.18 | 1,252 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 14:18:59 | 35.11 | 32.51 | 1,252 | 0.25 | 0.35 | 68.4 |
| 4/29/2015 14:19:00 | 35.43 | 32.83 | 1,252 | 0.25 | 0.35 | 68.4 |
| 4/29/2015 14:19:00 | 35.76 | 33.16 | 1,246 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 14:19:00 | 36.09 | 33.49 | 1,246 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 14:19:00 | 36.42 | 33.82 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 14:19:01 | 36.75 | 34.15 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 14:19:01 | 37.07 | 34.47 | 1,246 | 0.25 | 0.37 | 68.1 |
| 4/29/2015 14:19:02 | 37.40 | 34.80 | 1,243 | 0.26 | 0.36 | 68.0 |
| 4/29/2015 14:19:02 | 37.73 | 35.13 | 1,243 | 0.26 | 0.36 | 68.0 |
| 4/29/2015 14:19:02 | 38.06 | 35.46 | 1,226 | 0.25 | 0.35 | 67.0 |
| 4/29/2015 14:19:03 | 38.39 | 35.79 | 1,226 | 0.25 | 0.35 | 67.0 |
| 4/29/2015 14:19:03 | 38.71 | 36.11 | 1,253 | 0.26 | 0.36 | 68.5 |
| 4/29/2015 14:19:03 | 39.04 | 36.44 | 1,253 | 0.26 | 0.36 | 68.5 |
| 4/29/2015 14:19:03 | 39.37 | 36.77 | 1,253 | 0.25 | 0.35 | 68.5 |
| 4/29/2015 14:19:04 | 39.70 | 37.10 | 1,253 | 0.25 | 0.35 | 68.5 |
| 4/29/2015 14:19:04 | 40.03 | 37.43 | 1,253 | 0.25 | 0.38 | 68.5 |
| 4/29/2015 14:19:04 | 40.35 | 37.75 | 1,256 | 0.26 | 0.38 | 68.7 |
| 4/29/2015 14:19:05 | 40.68 | 38.08 | 1,256 | 0.26 | 0.38 | 68.7 |
| 4/29/2015 14:19:05 | 41.01 | 38.41 | 1,273 | 0.33 | 0.39 | 69.6 |
| 4/29/2015 14:19:05 | 41.34 | 38.74 | 1,273 | 0.33 | 0.39 | 69.6 |
| 4/29/2015 14:19:05 | 41.67 | 39.07 | 1,243 | 0.24 | 0.38 | 68.0 |
| 4/29/2015 14:19:06 | 41.99 | 39.39 | 1,243 | 0.24 | 0.38 | 68.0 |
| 4/29/2015 14:19:06 | 42.32 | 39.72 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/29/2015 14:19:06 | 42.65 | 40.05 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/29/2015 14:19:06 | 42.98 | 40.38 | 1,219 | 0.30 | 0.37 | 66.7 |
| 4/29/2015 14:19:07 | 43.31 | 40.71 | 1,219 | 0.30 | 0.37 | 66.7 |
| 4/29/2015 14:19:07 | 43.64 | 41.04 | 1,219 | 0.29 | 0.36 | 66.7 |
| 4/29/2015 14:19:07 | 43.96 | 41.36 | 1,226 | 0.26 | 0.37 | 67.0 |
| 4/29/2015 14:19:08 | 44.29 | 41.69 | 1,226 | 0.26 | 0.37 | 67.0 |
| 4/29/2015 14:19:08 | 44.62 | 42.02 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 14:19:08 | 44.95 | 42.35 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 14:19:08 | 45.28 | 42.68 | 1,238 | 0.26 | 0.36 | 67.7 |
| 4/29/2015 14:19:09 | 45.60 | 43.00 | 1,238 | 0.26 | 0.36 | 67.7 |
| 4/29/2015 14:19:09 | 45.93 | 43.33 | 1,251 | 0.24 | 0.36 | 68.4 |
| 4/29/2015 14:19:09 | 46.26 | 43.66 | 1,251 | 0.24 | 0.36 | 68.4 |
| 4/29/2015 14:19:09 | 46.59 | 43.99 | 1,262 | 0.24 | 0.36 | 69.0 |
| 4/29/2015 14:19:10 | 46.92 | 44.32 | 1,255 | 0.24 | 0.45 | 68.6 |
| 4/29/2015 14:19:15 | 47.24 | 44.64 | 0 | 5.97 | 0.46 | 0.0 |
| 4/29/2015 14:19:20 | 47.57 | 44.97 | 112 | 3.15 | 0.44 | 6.1 |
| 4/29/2015 14:19:25 | 47.90 | 45.30 | 70 | 4.54 | 0.46 | 3.8 |
| 4/29/2015 14:19:29 | 48.23 | 45.63 | 82 | 3.31 | 0.46 | 4.5 |
| 4/29/2015 14:19:35 | 48.56 | 45.96 | 70 | 3.39 | 0.47 | 3.8 |
| 4/29/2015 14:19:39 | 48.88 | 46.28 | 64 | 2.92 | 0.46 | 3.5 |
| 4/29/2015 14:19:47 | 49.21 | 46.61 | 43 | 2.77 | 0.46 | 2.4 |
| 4/29/2015 14:19:56 | 49.54 | 46.94 | 35 | 2.30 | 0.46 | 1.9 |
| 4/29/2015 14:20:05 | 49.87 | 47.27 | 44 | 2.57 | 0.46 | 2.4 |
| 4/29/2015 14:20:08 | 50.00 | 47.40 | 43 | 2.84 | 0.46 | 2.4 |

## K161 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 14:17:23

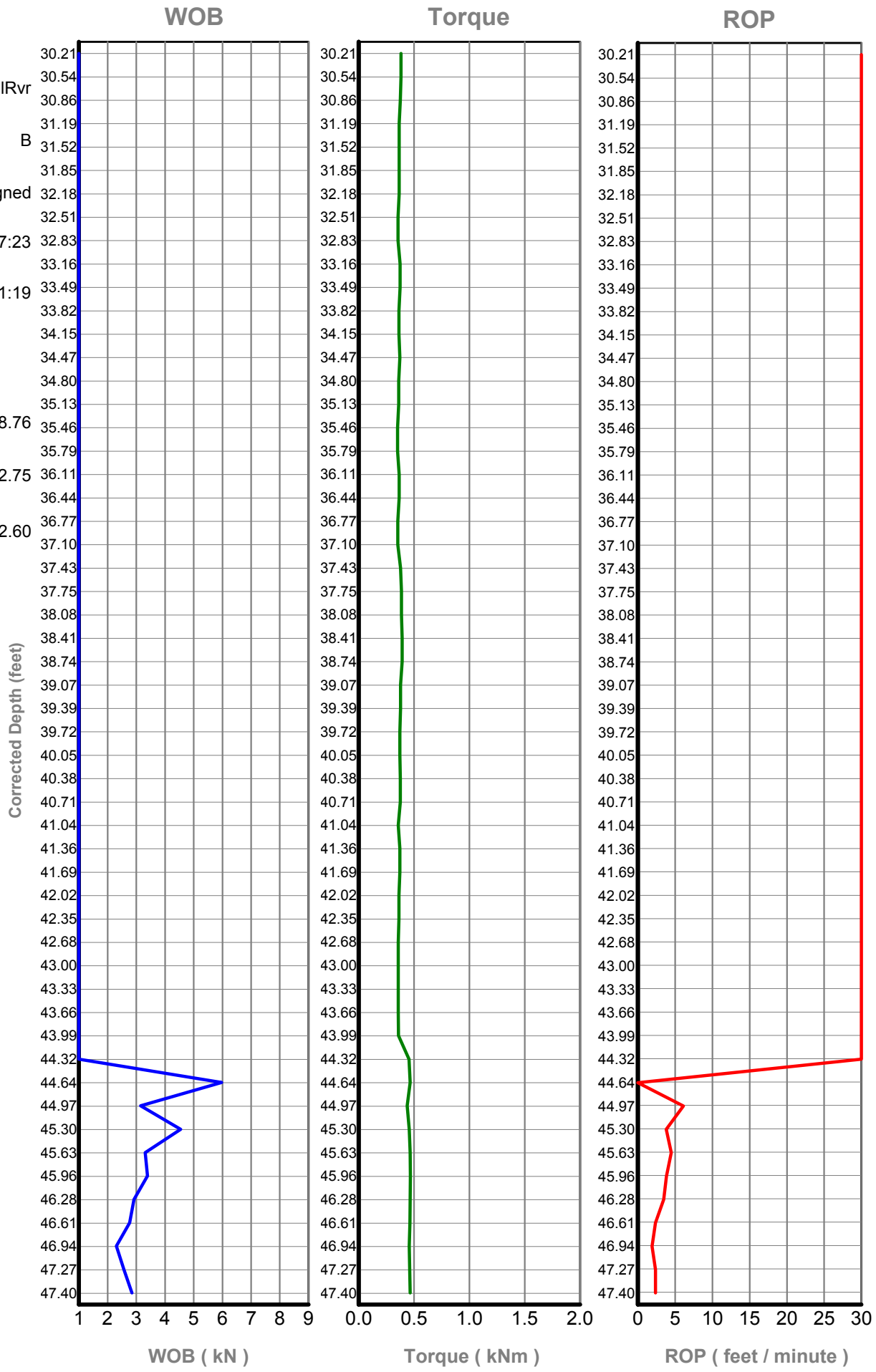
**End Date:**
4/29/2015 14:21:19

**Operator Note:**
'2.6 3.0 b Rock'

**Northing:**
361,518.76

**Easting:**
244,772.75

**Tide (feet):**
2.60



## Hole: K162 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:56:59 | 33.14 | 30.14 | 1,263 | 0.31 | 0.37 | 69.1 |
| 4/29/2015 13:56:59 | 33.46 | 30.46 | 1,269 | 0.26 | 0.37 | 69.4 |
| 4/29/2015 13:57:00 | 33.79 | 30.79 | 1,269 | 0.26 | 0.37 | 69.4 |
| 4/29/2015 13:57:00 | 34.12 | 31.12 | 1,283 | 0.25 | 0.33 | 70.1 |
| 4/29/2015 13:57:01 | 34.45 | 31.45 | 1,283 | 0.25 | 0.33 | 70.1 |
| 4/29/2015 13:57:01 | 34.78 | 31.78 | 1,275 | 0.25 | 0.36 | 69.7 |
| 4/29/2015 13:57:01 | 35.11 | 32.11 | 1,275 | 0.25 | 0.36 | 69.7 |
| 4/29/2015 13:57:01 | 35.43 | 32.43 | 1,278 | 0.25 | 0.35 | 69.9 |
| 4/29/2015 13:57:02 | 35.76 | 32.76 | 1,278 | 0.25 | 0.35 | 69.9 |
| 4/29/2015 13:57:02 | 36.09 | 33.09 | 1,278 | 0.25 | 0.37 | 69.9 |
| 4/29/2015 13:57:02 | 36.42 | 33.42 | 1,278 | 0.25 | 0.37 | 69.9 |
| 4/29/2015 13:57:02 | 36.75 | 33.75 | 1,281 | 0.25 | 0.36 | 70.0 |
| 4/29/2015 13:57:03 | 37.07 | 34.07 | 1,281 | 0.25 | 0.36 | 70.0 |
| 4/29/2015 13:57:03 | 37.40 | 34.40 | 1,270 | 0.26 | 0.35 | 69.4 |
| 4/29/2015 13:57:03 | 37.73 | 34.73 | 1,278 | 0.25 | 0.35 | 69.9 |
| 4/29/2015 13:57:04 | 38.06 | 35.06 | 1,278 | 0.25 | 0.35 | 69.9 |
| 4/29/2015 13:57:04 | 38.39 | 35.39 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:57:04 | 38.71 | 35.71 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:57:04 | 39.04 | 36.04 | 1,286 | 0.26 | 0.37 | 70.3 |
| 4/29/2015 13:57:05 | 39.37 | 36.37 | 1,286 | 0.26 | 0.37 | 70.3 |
| 4/29/2015 13:57:05 | 39.70 | 36.70 | 1,286 | 0.25 | 0.36 | 70.3 |
| 4/29/2015 13:57:05 | 40.03 | 37.03 | 1,286 | 0.25 | 0.36 | 70.3 |
| 4/29/2015 13:57:05 | 40.35 | 37.35 | 1,286 | 0.26 | 0.36 | 70.3 |
| 4/29/2015 13:57:06 | 40.68 | 37.68 | 1,286 | 0.26 | 0.36 | 70.3 |
| 4/29/2015 13:57:06 | 41.01 | 38.01 | 1,275 | 0.25 | 0.36 | 69.7 |
| 4/29/2015 13:57:06 | 41.34 | 38.34 | 1,275 | 0.25 | 0.36 | 69.7 |
| 4/29/2015 13:57:06 | 41.67 | 38.67 | 1,296 | 0.26 | 0.37 | 70.9 |
| 4/29/2015 13:57:07 | 41.99 | 38.99 | 1,296 | 0.26 | 0.37 | 70.9 |
| 4/29/2015 13:57:07 | 42.32 | 39.32 | 1,290 | 0.26 | 0.37 | 70.6 |
| 4/29/2015 13:57:07 | 42.65 | 39.65 | 1,287 | 0.26 | 0.36 | 70.4 |
| 4/29/2015 13:57:08 | 42.98 | 39.98 | 1,287 | 0.26 | 0.36 | 70.4 |
| 4/29/2015 13:57:08 | 43.31 | 40.31 | 1,287 | 0.26 | 0.35 | 70.4 |
| 4/29/2015 13:57:08 | 43.64 | 40.64 | 1,287 | 0.26 | 0.35 | 70.4 |
| 4/29/2015 13:57:08 | 43.96 | 40.96 | 1,305 | 0.24 | 0.36 | 71.4 |
| 4/29/2015 13:57:09 | 44.29 | 41.29 | 1,305 | 0.24 | 0.36 | 71.4 |
| 4/29/2015 13:57:09 | 44.62 | 41.62 | 1,284 | 0.26 | 0.36 | 70.2 |
| 4/29/2015 13:57:09 | 44.95 | 41.95 | 1,284 | 0.26 | 0.36 | 70.2 |
| 4/29/2015 13:57:09 | 45.28 | 42.28 | 1,287 | 0.25 | 0.36 | 70.4 |
| 4/29/2015 13:57:10 | 45.60 | 42.60 | 1,287 | 0.25 | 0.36 | 70.4 |
| 4/29/2015 13:57:10 | 45.93 | 42.93 | 1,287 | 0.26 | 0.37 | 70.4 |
| 4/29/2015 13:57:11 | 46.26 | 43.26 | 1,287 | 0.26 | 0.37 | 70.4 |
| 4/29/2015 13:57:11 | 46.59 | 43.59 | 1,289 | 0.26 | 0.34 | 70.5 |
| 4/29/2015 13:57:11 | 46.92 | 43.92 | 1,289 | 0.26 | 0.34 | 70.5 |
| 4/29/2015 13:57:11 | 47.24 | 44.24 | 1,289 | 0.26 | 0.36 | 70.5 |
| 4/29/2015 13:57:12 | 47.57 | 44.57 | 1,289 | 0.23 | 0.47 | 70.5 |
| 4/29/2015 13:57:19 | 47.90 | 44.90 | 17 | 4.53 | 0.47 | 1.0 |
| 4/29/2015 13:57:28 | 48.23 | 45.23 | 31 | 4.32 | 0.46 | 1.7 |
| 4/29/2015 13:57:34 | 48.56 | 45.56 | 46 | 3.22 | 0.46 | 2.5 |
| 4/29/2015 13:57:48 | 48.88 | 45.88 | 55 | 3.79 | 0.46 | 3.0 |
| 4/29/2015 13:57:53 | 49.21 | 46.21 | 55 | 2.70 | 0.47 | 3.0 |
| 4/29/2015 13:58:00 | 49.54 | 46.54 | 48 | 2.75 | 0.46 | 2.6 |
| 4/29/2015 13:58:09 | 49.87 | 46.87 | 37 | 2.50 | 0.45 | 2.0 |
| 4/29/2015 13:58:13 | 49.99 | 46.99 | 40 | 2.57 | 0.47 | 2.2 |

## K162 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:54:54

**End Date:**
4/29/2015 13:59:24

**Operator Note:**
'3 3.3 b Rock'

**Northing:**
361,572.61

**Easting:**
244,819.63

**Tide (feet):**
3.00



## Hole: K163 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:23:33 | 35.76 | 30.16 | 1,216 | 0.26 | 0.37 | 66.5 |
| 4/29/2015 11:23:34 | 36.09 | 30.49 | 1,216 | 0.26 | 0.37 | 66.5 |
| 4/29/2015 11:23:34 | 36.42 | 30.82 | 1,216 | 0.27 | 0.36 | 66.5 |
| 4/29/2015 11:23:35 | 36.75 | 31.15 | 1,216 | 0.27 | 0.36 | 66.5 |
| 4/29/2015 11:23:35 | 37.07 | 31.47 | 1,230 | 0.27 | 0.37 | 67.2 |
| 4/29/2015 11:23:35 | 37.40 | 31.80 | 1,230 | 0.27 | 0.37 | 67.2 |
| 4/29/2015 11:23:35 | 37.73 | 32.13 | 1,230 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 11:23:36 | 38.06 | 32.46 | 1,246 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 11:23:36 | 38.39 | 32.79 | 1,246 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 11:23:36 | 38.71 | 33.11 | 1,231 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 11:23:37 | 39.04 | 33.44 | 1,231 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 11:23:37 | 39.37 | 33.77 | 1,244 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 11:23:37 | 39.70 | 34.10 | 1,244 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 11:23:37 | 40.03 | 34.43 | 1,221 | 0.27 | 0.37 | 66.8 |
| 4/29/2015 11:23:38 | 40.35 | 34.75 | 1,221 | 0.27 | 0.37 | 66.8 |
| 4/29/2015 11:23:38 | 40.68 | 35.08 | 1,224 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 11:23:38 | 41.01 | 35.41 | 1,224 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 11:23:39 | 41.34 | 35.74 | 1,224 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 11:23:39 | 41.67 | 36.07 | 1,213 | 0.26 | 0.36 | 66.3 |
| 4/29/2015 11:23:39 | 41.99 | 36.39 | 1,213 | 0.26 | 0.36 | 66.3 |
| 4/29/2015 11:23:39 | 42.32 | 36.72 | 1,213 | 0.26 | 0.37 | 66.3 |
| 4/29/2015 11:23:40 | 42.65 | 37.05 | 1,213 | 0.26 | 0.37 | 66.3 |
| 4/29/2015 11:23:40 | 42.98 | 37.38 | 1,215 | 0.27 | 0.38 | 66.4 |
| 4/29/2015 11:23:40 | 43.31 | 37.71 | 1,215 | 0.27 | 0.38 | 66.4 |
| 4/29/2015 11:23:40 | 43.64 | 38.04 | 1,212 | 0.27 | 0.38 | 66.3 |
| 4/29/2015 11:23:41 | 43.96 | 38.36 | 1,212 | 0.27 | 0.38 | 66.3 |
| 4/29/2015 11:23:41 | 44.29 | 38.69 | 1,212 | 0.27 | 0.36 | 66.3 |
| 4/29/2015 11:23:41 | 44.62 | 39.02 | 1,241 | 0.27 | 0.37 | 67.8 |
| 4/29/2015 11:23:42 | 44.95 | 39.35 | 1,241 | 0.27 | 0.37 | 67.8 |
| 4/29/2015 11:23:42 | 45.28 | 39.68 | 1,232 | 0.27 | 0.36 | 67.3 |
| 4/29/2015 11:23:42 | 45.60 | 40.00 | 1,232 | 0.27 | 0.36 | 67.3 |
| 4/29/2015 11:23:42 | 45.93 | 40.33 | 1,243 | 0.27 | 0.38 | 67.9 |
| 4/29/2015 11:23:43 | 46.26 | 40.66 | 1,243 | 0.27 | 0.38 | 67.9 |
| 4/29/2015 11:23:43 | 46.59 | 40.99 | 1,243 | 0.27 | 0.38 | 67.9 |
| 4/29/2015 11:23:44 | 46.92 | 41.32 | 1,243 | 0.27 | 0.38 | 67.9 |
| 4/29/2015 11:23:43 | 47.24 | 41.64 | 1,245 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 11:23:44 | 47.57 | 41.97 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 11:23:45 | 47.90 | 42.30 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 11:23:45 | 48.23 | 42.63 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 11:23:45 | 48.56 | 42.96 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 11:23:45 | 48.88 | 43.28 | 1,248 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:23:46 | 49.21 | 43.61 | 1,248 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:23:46 | 49.54 | 43.94 | 1,268 | 0.27 | 0.36 | 69.3 |
| 4/29/2015 11:23:46 | 49.87 | 44.27 | 1,268 | 0.27 | 0.36 | 69.3 |
| 4/29/2015 11:23:46 | 50.20 | 44.60 | 1,263 | 0.24 | 0.43 | 69.1 |
| 4/29/2015 11:23:58 | 50.53 | 44.93 | 78 | 4.00 | 0.45 | 4.3 |
| 4/29/2015 11:23:59 | 50.85 | 45.25 | 177 | 3.26 | 0.45 | 9.7 |
| 4/29/2015 11:24:06 | 51.18 | 45.58 | 35 | 3.49 | 0.46 | 1.9 |
| 4/29/2015 11:24:10 | 51.51 | 45.91 | 86 | 3.05 | 0.45 | 4.7 |
| 4/29/2015 11:24:14 | 51.84 | 46.24 | 90 | 3.72 | 0.46 | 4.9 |
| 4/29/2015 11:24:18 | 52.17 | 46.57 | 75 | 3.48 | 0.47 | 4.1 |
| 4/29/2015 11:24:24 | 52.49 | 46.89 | 63 | 3.61 | 0.46 | 3.4 |
| 4/29/2015 11:24:29 | 52.82 | 47.22 | 72 | 3.57 | 0.46 | 3.9 |
| 4/29/2015 11:24:34 | 53.15 | 47.55 | 87 | 3.94 | 0.46 | 4.7 |
| 4/29/2015 11:24:37 | 53.48 | 47.88 | 128 | 3.22 | 0.45 | 7.0 |
| 4/29/2015 11:24:42 | 53.81 | 48.21 | 49 | 2.69 | 0.47 | 2.7 |
| 4/29/2015 11:24:49 | 54.13 | 48.53 | 43 | 2.61 | 0.47 | 2.4 |
| 4/29/2015 11:24:56 | 54.46 | 48.86 | 61 | 2.95 | 0.47 | 3.3 |
| 4/29/2015 11:25:03 | 54.79 | 49.19 | 58 | 3.38 | 0.47 | 3.2 |

## K163 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 11:22:20

**End Date:**
4/29/2015 11:26:05

**Operator Note:**
'5.6 5.7 b Rock"

**Northing:**
361,823.30

**Easting:**
245,138.50

**Tide (feet):**
5.60



## Hole: K164 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:37:08 | 35.76 | 30.26 | 1,260 | 0.26 | 0.37 | 68.9 |
| 4/29/2015 11:37:08 | 36.09 | 30.59 | 1,260 | 0.26 | 0.37 | 68.9 |
| 4/29/2015 11:37:08 | 36.42 | 30.92 | 1,254 | 0.28 | 0.36 | 68.6 |
| 4/29/2015 11:37:09 | 36.75 | 31.25 | 1,249 | 0.28 | 0.38 | 68.3 |
| 4/29/2015 11:37:09 | 37.07 | 31.57 | 1,249 | 0.28 | 0.38 | 68.3 |
| 4/29/2015 11:37:09 | 37.40 | 31.90 | 1,241 | 0.27 | 0.35 | 67.9 |
| 4/29/2015 11:37:10 | 37.73 | 32.23 | 1,241 | 0.27 | 0.35 | 67.9 |
| 4/29/2015 11:37:10 | 38.06 | 32.56 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 11:37:10 | 38.39 | 32.89 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 11:37:10 | 38.71 | 33.21 | 1,249 | 0.27 | 0.37 | 68.3 |
| 4/29/2015 11:37:11 | 39.04 | 33.54 | 1,249 | 0.27 | 0.37 | 68.3 |
| 4/29/2015 11:37:11 | 39.37 | 33.87 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 11:37:11 | 39.70 | 34.20 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 11:37:11 | 40.03 | 34.53 | 1,266 | 0.26 | 0.37 | 69.2 |
| 4/29/2015 11:37:12 | 40.35 | 34.85 | 1,277 | 0.29 | 0.38 | 69.8 |
| 4/29/2015 11:37:12 | 40.68 | 35.18 | 1,277 | 0.29 | 0.38 | 69.8 |
| 4/29/2015 11:37:12 | 41.01 | 35.51 | 1,243 | 0.26 | 0.35 | 68.0 |
| 4/29/2015 11:37:13 | 41.34 | 35.84 | 1,243 | 0.26 | 0.35 | 68.0 |
| 4/29/2015 11:37:13 | 41.67 | 36.17 | 1,254 | 0.26 | 0.36 | 68.5 |
| 4/29/2015 11:37:13 | 41.99 | 36.49 | 1,254 | 0.26 | 0.36 | 68.5 |
| 4/29/2015 11:37:13 | 42.32 | 36.82 | 1,254 | 0.27 | 0.38 | 68.5 |
| 4/29/2015 11:37:14 | 42.65 | 37.15 | 1,254 | 0.27 | 0.38 | 68.5 |
| 4/29/2015 11:37:14 | 42.98 | 37.48 | 1,250 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:37:14 | 43.31 | 37.81 | 1,250 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:37:14 | 43.64 | 38.14 | 1,250 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:37:15 | 43.96 | 38.46 | 1,250 | 0.27 | 0.36 | 68.3 |
| 4/29/2015 11:37:15 | 44.29 | 38.79 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 11:37:15 | 44.62 | 39.12 | 1,250 | 0.26 | 0.38 | 68.3 |
| 4/29/2015 11:37:16 | 44.95 | 39.45 | 1,250 | 0.26 | 0.38 | 68.3 |
| 4/29/2015 11:37:16 | 45.28 | 39.78 | 1,286 | 0.05 | 0.37 | 70.3 |
| 4/29/2015 11:37:17 | 45.60 | 40.10 | 1,286 | 0.05 | 0.37 | 70.3 |
| 4/29/2015 11:37:16 | 45.93 | 40.43 | 1,259 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 11:37:17 | 46.26 | 40.76 | 1,259 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 11:37:17 | 46.59 | 41.09 | 1,259 | 0.26 | 0.37 | 68.8 |
| 4/29/2015 11:37:18 | 46.92 | 41.42 | 1,259 | 0.26 | 0.37 | 68.8 |
| 4/29/2015 11:37:18 | 47.24 | 41.74 | 1,278 | 0.26 | 0.37 | 69.9 |
| 4/29/2015 11:37:18 | 47.57 | 42.07 | 1,278 | 0.26 | 0.37 | 69.9 |
| 4/29/2015 11:37:18 | 47.90 | 42.40 | 1,288 | 0.26 | 0.36 | 70.5 |
| 4/29/2015 11:37:19 | 48.23 | 42.73 | 1,250 | 0.26 | 0.37 | 68.3 |
| 4/29/2015 11:37:19 | 48.56 | 43.06 | 1,250 | 0.26 | 0.37 | 68.3 |
| 4/29/2015 11:37:19 | 48.88 | 43.38 | 1,250 | 0.24 | 0.38 | 68.3 |
| 4/29/2015 11:37:20 | 49.21 | 43.71 | 1,250 | 0.24 | 0.38 | 68.3 |
| 4/29/2015 11:37:28 | 49.54 | 44.04 | 14 | 2.76 | 0.43 | 0.8 |
| 4/29/2015 11:37:29 | 49.87 | 44.37 | 102 | 2.67 | 0.41 | 5.6 |
| 4/29/2015 11:37:41 | 50.20 | 44.70 | 0 | 4.88 | 0.47 | 0.0 |
| 4/29/2015 11:37:48 | 50.53 | 45.03 | 51 | 3.00 | 0.46 | 2.8 |
| 4/29/2015 11:37:54 | 50.85 | 45.35 | 57 | 2.99 | 0.47 | 3.1 |
| 4/29/2015 11:38:02 | 51.18 | 45.68 | 46 | 3.16 | 0.46 | 2.5 |
| 4/29/2015 11:38:09 | 51.51 | 46.01 | 46 | 2.72 | 0.47 | 2.5 |
| 4/29/2015 11:38:17 | 51.81 | 46.31 | 39 | 2.55 | 0.47 | 2.2 |

## K164 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:35:37

**End Date:**
4/29/2015 11:39:38

**Operator Note:**
'5.5 5.7 b Rock'

**Northing:**
361,878.16

**Easting:**
245,182.61

**Tide (feet):**
5.50



## Hole: K165 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:24:02 | 31.50 | 30.30 | 1,195 | 1.58 | 0.25 | 65.3 |
| 4/30/2015 4:24:03 | 31.82 | 30.62 | 1,191 | 1.46 | 0.25 | 65.1 |
| 4/30/2015 4:24:03 | 32.15 | 30.95 | 1,191 | 1.46 | 0.25 | 65.1 |
| 4/30/2015 4:24:03 | 32.48 | 31.28 | 1,128 | 1.41 | 0.25 | 61.7 |
| 4/30/2015 4:24:04 | 32.81 | 31.61 | 1,082 | 1.40 | 0.25 | 59.2 |
| 4/30/2015 4:24:04 | 33.14 | 31.94 | 1,015 | 1.37 | 0.25 | 55.5 |
| 4/30/2015 4:24:05 | 33.46 | 32.26 | 977 | 1.40 | 0.25 | 53.4 |
| 4/30/2015 4:24:05 | 33.79 | 32.59 | 977 | 1.40 | 0.25 | 53.4 |
| 4/30/2015 4:24:05 | 34.12 | 32.92 | 905 | 1.39 | 0.25 | 49.5 |
| 4/30/2015 4:24:06 | 34.45 | 33.25 | 890 | 1.40 | 0.25 | 48.7 |
| 4/30/2015 4:24:06 | 34.78 | 33.58 | 876 | 1.84 | 0.25 | 47.9 |
| 4/30/2015 4:24:13 | 35.11 | 33.91 | 0 | 1.09 | 0.22 | 0.0 |
| 4/30/2015 4:24:14 | 35.43 | 34.23 | 44 | 1.08 | 0.20 | 2.4 |
| 4/30/2015 4:24:14 | 35.76 | 34.56 | 183 | 1.12 | 0.21 | 10.0 |
| 4/30/2015 4:24:15 | 36.09 | 34.89 | 183 | 1.09 | 0.19 | 10.0 |
| 4/30/2015 4:24:15 | 36.42 | 35.22 | 341 | 1.08 | 0.19 | 18.7 |
| 4/30/2015 4:24:16 | 36.75 | 35.55 | 489 | 1.09 | 0.19 | 26.8 |
| 4/30/2015 4:24:16 | 37.07 | 35.87 | 638 | 1.09 | 0.19 | 34.9 |
| 4/30/2015 4:24:17 | 37.40 | 36.20 | 744 | 1.09 | 0.19 | 40.7 |
| 4/30/2015 4:24:18 | 37.73 | 36.53 | 583 | 1.68 | 0.24 | 31.9 |
| 4/30/2015 4:24:19 | 38.06 | 36.86 | 583 | 1.66 | 0.24 | 31.9 |
| 4/30/2015 4:24:19 | 38.39 | 37.19 | 583 | 1.66 | 0.24 | 31.9 |
| 4/30/2015 4:24:19 | 38.71 | 37.51 | 635 | 1.63 | 0.24 | 34.7 |
| 4/30/2015 4:24:20 | 39.04 | 37.84 | 635 | 1.63 | 0.24 | 34.7 |
| 4/30/2015 4:24:20 | 39.37 | 38.17 | 726 | 1.64 | 0.24 | 39.7 |
| 4/30/2015 4:24:20 | 39.70 | 38.50 | 812 | 1.65 | 0.24 | 44.4 |
| 4/30/2015 4:24:21 | 40.03 | 38.83 | 812 | 1.65 | 0.24 | 44.4 |
| 4/30/2015 4:24:21 | 40.35 | 39.15 | 901 | 1.64 | 0.24 | 49.3 |
| 4/30/2015 4:24:21 | 40.68 | 39.48 | 901 | 1.64 | 0.24 | 49.3 |
| 4/30/2015 4:24:22 | 41.01 | 39.81 | 1,134 | 1.66 | 0.23 | 62.0 |
| 4/30/2015 4:24:22 | 41.34 | 40.14 | 1,144 | 1.65 | 0.23 | 62.5 |
| 4/30/2015 4:24:23 | 41.67 | 40.47 | 1,144 | 1.65 | 0.23 | 62.5 |
| 4/30/2015 4:24:23 | 41.99 | 40.79 | 1,147 | 1.62 | 0.23 | 62.7 |
| 4/30/2015 4:24:23 | 42.32 | 41.12 | 1,147 | 1.62 | 0.23 | 62.7 |
| 4/30/2015 4:24:23 | 42.65 | 41.45 | 1,116 | 1.66 | 0.24 | 61.0 |
| 4/30/2015 4:24:24 | 42.98 | 41.78 | 1,116 | 1.64 | 0.24 | 61.0 |
| 4/30/2015 4:24:24 | 43.31 | 42.11 | 1,116 | 1.64 | 0.24 | 61.0 |
| 4/30/2015 4:24:24 | 43.64 | 42.44 | 1,130 | 1.64 | 0.24 | 61.8 |
| 4/30/2015 4:24:25 | 43.96 | 42.76 | 1,130 | 1.64 | 0.24 | 61.8 |
| 4/30/2015 4:24:25 | 44.29 | 43.09 | 1,133 | 1.62 | 0.23 | 61.9 |
| 4/30/2015 4:24:25 | 44.62 | 43.42 | 1,145 | 1.62 | 0.24 | 62.6 |
| 4/30/2015 4:24:26 | 44.95 | 43.75 | 1,145 | 1.62 | 0.24 | 62.6 |
| 4/30/2015 4:24:26 | 45.28 | 44.08 | 1,132 | 1.65 | 0.23 | 61.9 |
| 4/30/2015 4:24:26 | 45.60 | 44.40 | 1,132 | 1.65 | 0.23 | 61.9 |
| 4/30/2015 4:24:26 | 45.93 | 44.73 | 1,135 | 1.95 | 0.22 | 62.0 |
| 4/30/2015 4:24:32 | 46.26 | 45.06 | 59 | 1.00 | 1.63 | 3.2 |
| 4/30/2015 4:24:33 | 46.59 | 45.39 | 174 | 1.07 | 1.43 | 9.5 |
| 4/30/2015 4:24:34 | 46.92 | 45.72 | 257 | 1.17 | 1.72 | 14.1 |
| 4/30/2015 4:24:35 | 47.24 | 46.04 | 320 | 1.18 | 0.91 | 17.5 |
| 4/30/2015 4:24:36 | 47.57 | 46.37 | 336 | 1.12 | 1.17 | 18.4 |
| 4/30/2015 4:24:47 | 47.90 | 46.70 | 31 | 1.17 | 1.13 | 1.7 |
| 4/30/2015 4:24:54 | 48.23 | 47.03 | 43 | 1.06 | 1.16 | 2.4 |
| 4/30/2015 4:25:05 | 48.56 | 47.36 | 12 | 1.02 | 1.18 | 0.7 |
| 4/30/2015 4:25:10 | 48.88 | 47.68 | 83 | 1.12 | 1.00 | 4.5 |
| 4/30/2015 4:25:14 | 49.21 | 48.01 | 89 | 1.11 | 1.02 | 4.9 |
| 4/30/2015 4:25:18 | 49.54 | 48.34 | 88 | 1.07 | 1.04 | 4.8 |
| 4/30/2015 4:25:22 | 49.87 | 48.67 | 99 | 1.03 | 1.09 | 5.4 |
| 4/30/2015 4:25:26 | 50.20 | 49.00 | 81 | 1.13 | 1.20 | 4.4 |
| 4/30/2015 4:25:30 | 50.53 | 49.33 | 77 | 1.05 | 1.18 | 4.2 |
| 4/30/2015 4:25:36 | 50.85 | 49.65 | 68 | 1.08 | 1.01 | 3.7 |
| 4/30/2015 4:25:41 | 51.18 | 49.98 | 72 | 1.09 | 1.08 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:25:46 | 51.51 | 50.31 | 72 | 1.09 | 1.05 | 3.9 |
| 4/30/2015 | 4:25:52 | 51.84 | 50.64 | 68 | 1.13 | 1.05 | 3.7 |
| 4/30/2015 | 4:25:53 | 51.92 | 50.72 | 71 | 1.07 | 1.02 | 3.9 |

## K165 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:22:05

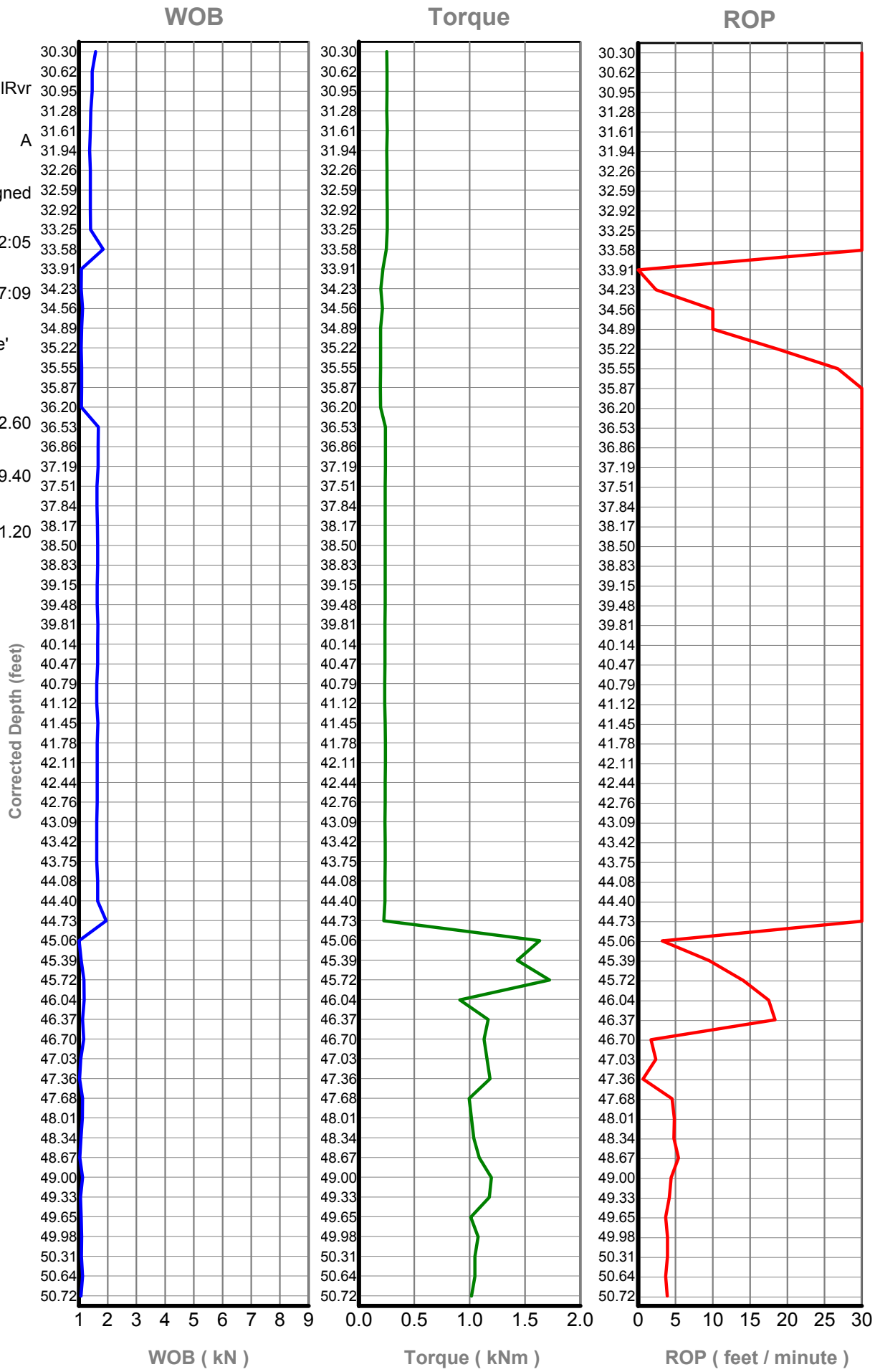
**End Date:**
4/30/2015 4:27:09

**Operator Note:**
'1.2 1.3 a Auto Complete'

**Northing:**
361,892.60

**Easting:**
245,229.40

**Tide (feet):**
1.20



## Hole: K166 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:24:41 | 31.50 | 30.30 | 1,107 | 0.32 | 0.39 | 60.5 |
| 4/30/2015 4:24:41 | 31.82 | 30.62 | 1,107 | 0.32 | 0.39 | 60.5 |
| 4/30/2015 4:24:41 | 32.15 | 30.95 | 1,104 | 0.32 | 0.38 | 60.4 |
| 4/30/2015 4:24:42 | 32.48 | 31.28 | 1,104 | 0.32 | 0.38 | 60.4 |
| 4/30/2015 4:24:42 | 32.81 | 31.61 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 4:24:42 | 33.14 | 31.94 | 1,114 | 0.33 | 0.39 | 60.9 |
| 4/30/2015 4:24:43 | 33.46 | 32.26 | 1,114 | 0.33 | 0.39 | 60.9 |
| 4/30/2015 4:24:43 | 33.79 | 32.59 | 1,107 | 0.33 | 0.39 | 60.5 |
| 4/30/2015 4:24:43 | 34.12 | 32.92 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 4:24:44 | 34.45 | 33.25 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 4:24:44 | 34.78 | 33.58 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 4:24:44 | 35.11 | 33.91 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 4:24:44 | 35.43 | 34.23 | 1,116 | 0.33 | 0.40 | 61.0 |
| 4/30/2015 4:24:45 | 35.76 | 34.56 | 1,113 | 0.33 | 0.39 | 60.9 |
| 4/30/2015 4:24:46 | 36.09 | 34.89 | 1,113 | 0.33 | 0.39 | 60.9 |
| 4/30/2015 4:24:46 | 36.42 | 35.22 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 4:24:46 | 36.75 | 35.55 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 4:24:46 | 37.07 | 35.87 | 1,110 | 0.33 | 0.39 | 60.7 |
| 4/30/2015 4:24:47 | 37.40 | 36.20 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 4:24:47 | 37.73 | 36.53 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 4:24:47 | 38.06 | 36.86 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 4:24:48 | 38.39 | 37.19 | 1,097 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 4:24:48 | 38.71 | 37.51 | 1,097 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 4:24:48 | 39.04 | 37.84 | 1,120 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 4:24:49 | 39.37 | 38.17 | 1,120 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 4:24:49 | 39.70 | 38.50 | 1,120 | 0.33 | 0.39 | 61.2 |
| 4/30/2015 4:24:49 | 40.03 | 38.83 | 1,114 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 4:24:50 | 40.35 | 39.15 | 1,114 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 4:24:50 | 40.68 | 39.48 | 1,117 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 4:24:50 | 41.01 | 39.81 | 1,117 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 4:24:50 | 41.34 | 40.14 | 1,129 | 0.34 | 0.38 | 61.7 |
| 4/30/2015 4:24:51 | 41.67 | 40.47 | 1,103 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 4:24:51 | 41.99 | 40.79 | 1,103 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 4:24:51 | 42.32 | 41.12 | 1,117 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 4:24:52 | 42.65 | 41.45 | 1,117 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 4:24:52 | 42.98 | 41.78 | 1,115 | 0.33 | 0.39 | 61.0 |
| 4/30/2015 4:24:52 | 43.31 | 42.11 | 1,125 | 0.33 | 0.39 | 61.5 |
| 4/30/2015 4:24:53 | 43.64 | 42.44 | 1,125 | 0.33 | 0.39 | 61.5 |
| 4/30/2015 4:24:53 | 43.96 | 42.76 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 4:24:53 | 44.29 | 43.09 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 4:24:54 | 44.62 | 43.42 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 4:24:54 | 44.95 | 43.75 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/30/2015 4:24:54 | 45.28 | 44.08 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/30/2015 4:24:54 | 45.60 | 44.40 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 4:24:55 | 45.93 | 44.73 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 4:24:56 | 46.26 | 45.06 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 4:24:56 | 46.59 | 45.39 | 1,116 | 0.31 | 0.40 | 61.1 |
| 4/30/2015 4:24:56 | 46.92 | 45.72 | 1,116 | 0.31 | 0.40 | 61.1 |
| 4/30/2015 4:25:00 | 47.24 | 46.04 | 74 | 5.08 | 0.46 | 4.1 |
| 4/30/2015 4:25:05 | 47.57 | 46.37 | 53 | 3.64 | 0.47 | 2.9 |
| 4/30/2015 4:25:15 | 47.90 | 46.70 | 15 | 5.16 | 0.46 | 0.8 |
| 4/30/2015 4:25:16 | 48.23 | 47.03 | 79 | 4.31 | 0.44 | 4.3 |
| 4/30/2015 4:25:17 | 48.56 | 47.36 | 147 | 4.44 | 0.45 | 8.1 |
| 4/30/2015 4:25:19 | 48.88 | 47.68 | 213 | 3.69 | 0.45 | 11.7 |
| 4/30/2015 4:25:20 | 49.21 | 48.01 | 213 | 3.69 | 0.45 | 11.7 |
| 4/30/2015 4:25:20 | 49.54 | 48.34 | 370 | 4.49 | 0.45 | 20.3 |
| 4/30/2015 4:25:21 | 49.87 | 48.67 | 341 | 3.62 | 0.44 | 18.6 |
| 4/30/2015 4:25:22 | 50.20 | 49.00 | 293 | 4.21 | 0.44 | 16.0 |
| 4/30/2015 4:25:23 | 50.53 | 49.33 | 326 | 3.56 | 0.44 | 17.8 |
| 4/30/2015 4:25:24 | 50.85 | 49.65 | 335 | 3.90 | 0.46 | 18.3 |
| 4/30/2015 4:25:26 | 51.18 | 49.98 | 194 | 3.42 | 0.47 | 10.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:25:33 | 51.51 | 50.31 | 35 | 2.76 | 0.48 | 1.9 |
| 4/30/2015 | 4:25:43 | 51.84 | 50.64 | 35 | 2.77 | 0.46 | 1.9 |
| 4/30/2015 | 4:25:52 | 52.17 | 50.97 | 47 | 3.62 | 0.47 | 2.6 |
| 4/30/2015 | 4:25:56 | 52.45 | 51.25 | 62 | 3.14 | 0.47 | 3.4 |

## K166 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:23:14

**End Date:**
4/30/2015 4:27:23

**Operator Note:**
'1.2 1.3b Auto Complete'

**Northing:**
361,940.60

**Easting:**
245,287.60

**Tide (feet):**
1.20



## Hole: K167 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:23:18 | 31.50 | 30.30 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 4:23:18 | 31.82 | 30.62 | 1,027 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 4:23:19 | 32.15 | 30.95 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:19 | 32.48 | 31.28 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:19 | 32.81 | 31.61 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:20 | 33.14 | 31.94 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:20 | 33.46 | 32.26 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:20 | 33.79 | 32.59 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 4:23:21 | 34.12 | 32.92 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:23:21 | 34.45 | 33.25 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:23:21 | 34.78 | 33.58 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 4:23:22 | 35.11 | 33.91 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:23:22 | 35.43 | 34.23 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:23:22 | 35.76 | 34.56 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:23 | 36.09 | 34.89 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 4:23:23 | 36.42 | 35.22 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 4:23:23 | 36.75 | 35.55 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 4:23:24 | 37.07 | 35.87 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 4:23:24 | 37.40 | 36.20 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 4:23:24 | 37.73 | 36.53 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 4:23:25 | 38.06 | 36.86 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 4:23:25 | 38.39 | 37.19 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 4:23:25 | 38.71 | 37.51 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:26 | 39.04 | 37.84 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:26 | 39.37 | 38.17 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 4:23:26 | 39.70 | 38.50 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:27 | 40.03 | 38.83 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:27 | 40.35 | 39.15 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 4:23:27 | 40.68 | 39.48 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 4:23:28 | 41.01 | 39.81 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 4:23:28 | 41.34 | 40.14 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:28 | 41.67 | 40.47 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:29 | 41.99 | 40.79 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:29 | 42.32 | 41.12 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 4:23:29 | 42.65 | 41.45 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:30 | 42.98 | 41.78 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:30 | 43.31 | 42.11 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:31 | 43.64 | 42.44 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 4:23:31 | 43.96 | 42.76 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 4:23:31 | 44.29 | 43.09 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 4:23:32 | 44.62 | 43.42 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 4:23:32 | 44.95 | 43.75 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 4:23:32 | 45.28 | 44.08 | 1,027 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 4:23:33 | 45.60 | 44.40 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:33 | 45.93 | 44.73 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 4:23:33 | 46.26 | 45.06 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 4:23:34 | 46.59 | 45.39 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 4:23:34 | 46.92 | 45.72 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 4:23:34 | 47.24 | 46.04 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 4:23:46 | 47.57 | 46.37 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:23:48 | 47.90 | 46.70 | 100 | 1.14 | 0.29 | 5.5 |
| 4/30/2015 4:23:49 | 48.23 | 47.03 | 116 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 4:23:50 | 48.56 | 47.36 | 267 | 1.14 | 0.29 | 14.6 |
| 4/30/2015 4:23:59 | 48.88 | 47.68 | 116 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 4:24:00 | 49.21 | 48.01 | 190 | 1.14 | 0.29 | 10.4 |
| 4/30/2015 4:24:07 | 49.54 | 48.34 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 4:24:08 | 49.87 | 48.67 | 146 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 4:24:08 | 50.20 | 49.00 | 251 | 1.14 | 0.29 | 13.8 |
| 4/30/2015 4:24:16 | 50.53 | 49.33 | 27 | 1.14 | 0.29 | 1.5 |
| 4/30/2015 4:24:17 | 50.85 | 49.65 | 139 | 1.14 | 0.29 | 7.6 |
| 4/30/2015 4:24:18 | 51.18 | 49.98 | 310 | 1.14 | 0.29 | 16.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:24:19 | 51.51 | 50.31 | 310 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 | 4:24:19 | 51.84 | 50.64 | 393 | 1.14 | 0.29 | 21.5 |
| 4/30/2015 | 4:24:20 | 52.17 | 50.97 | 421 | 1.14 | 0.29 | 23.0 |
| 4/30/2015 | 4:24:22 | 52.49 | 51.29 | 378 | 1.14 | 0.29 | 20.7 |
| 4/30/2015 | 4:24:45 | 52.82 | 51.62 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 4:24:45 | 53.15 | 51.95 | 121 | 1.14 | 0.29 | 6.6 |
| 4/30/2015 | 4:24:46 | 53.48 | 52.28 | 286 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 | 4:24:46 | 53.81 | 52.61 | 477 | 1.14 | 0.29 | 26.1 |
| 4/30/2015 | 4:24:47 | 54.13 | 52.93 | 477 | 1.14 | 0.29 | 26.1 |
| 4/30/2015 | 4:24:47 | 54.46 | 53.26 | 646 | 1.14 | 0.29 | 35.3 |
| 4/30/2015 | 4:24:47 | 54.79 | 53.59 | 775 | 1.14 | 0.29 | 42.4 |
| 4/30/2015 | 4:24:49 | 55.12 | 53.92 | 369 | 1.14 | 0.29 | 20.2 |
| 4/30/2015 | 4:24:55 | 55.45 | 54.25 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 4:25:00 | 55.77 | 54.57 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 | 4:25:07 | 56.10 | 54.90 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 | 4:25:11 | 56.43 | 55.23 | 85 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 | 4:25:12 | 56.57 | 55.37 | 107 | 1.14 | 0.29 | 5.9 |

## K167 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:22:19

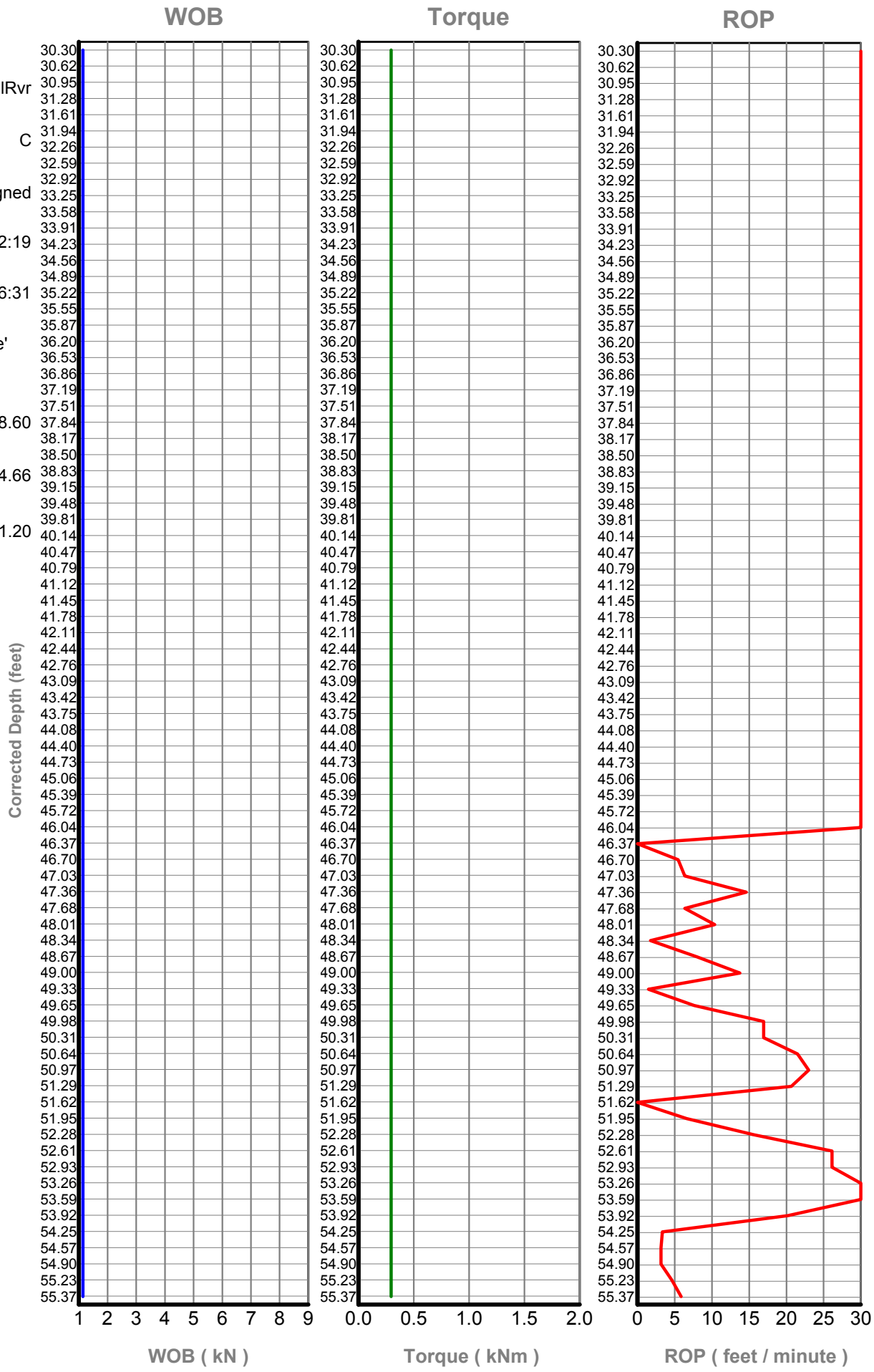
**End Date:**
4/30/2015 4:26:31

**Operator Note:**
'1.2 1.4 c Auto Complete'

**Northing:**
361,988.60

**Easting:**
245,344.66

**Tide (feet):**
1.20



## Hole: K168 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:21:56 | 32.48 | 30.28 | 1,365 | 1.83 | 0.22 | 74.7 |
| 4/30/2015 3:21:56 | 32.81 | 30.61 | 1,376 | 1.83 | 0.22 | 75.2 |
| 4/30/2015 3:21:56 | 33.14 | 30.94 | 1,376 | 1.83 | 0.22 | 75.2 |
| 4/30/2015 3:21:56 | 33.46 | 31.26 | 1,354 | 1.85 | 0.22 | 74.0 |
| 4/30/2015 3:21:57 | 33.79 | 31.59 | 1,354 | 1.85 | 0.22 | 74.0 |
| 4/30/2015 3:21:57 | 34.12 | 31.92 | 1,354 | 1.26 | 0.23 | 74.0 |
| 4/30/2015 3:21:58 | 34.45 | 32.25 | 1,329 | 1.32 | 0.23 | 72.7 |
| 4/30/2015 3:21:58 | 34.78 | 32.58 | 1,329 | 1.32 | 0.23 | 72.7 |
| 4/30/2015 3:21:58 | 35.11 | 32.91 | 1,250 | 1.30 | 0.23 | 68.3 |
| 4/30/2015 3:21:59 | 35.43 | 33.23 | 1,250 | 1.31 | 0.23 | 68.3 |
| 4/30/2015 3:21:59 | 35.76 | 33.56 | 1,185 | 1.30 | 0.23 | 64.8 |
| 4/30/2015 3:22:00 | 36.09 | 33.89 | 1,185 | 1.30 | 0.23 | 64.8 |
| 4/30/2015 3:22:00 | 36.42 | 34.22 | 1,057 | 1.31 | 0.23 | 57.8 |
| 4/30/2015 3:22:00 | 36.75 | 34.55 | 990 | 1.30 | 0.23 | 54.1 |
| 4/30/2015 3:22:01 | 37.07 | 34.87 | 990 | 1.32 | 0.23 | 54.1 |
| 4/30/2015 3:22:01 | 37.40 | 35.20 | 990 | 1.32 | 0.23 | 54.1 |
| 4/30/2015 3:22:01 | 37.73 | 35.53 | 917 | 1.32 | 0.23 | 50.2 |
| 4/30/2015 3:22:02 | 38.06 | 35.86 | 908 | 1.32 | 0.23 | 49.7 |
| 4/30/2015 3:22:02 | 38.39 | 36.19 | 904 | 1.32 | 0.23 | 49.4 |
| 4/30/2015 3:22:03 | 38.71 | 36.51 | 904 | 1.32 | 0.23 | 49.4 |
| 4/30/2015 3:22:03 | 39.04 | 36.84 | 904 | 1.32 | 0.23 | 49.4 |
| 4/30/2015 3:22:03 | 39.37 | 37.17 | 929 | 1.34 | 0.23 | 50.8 |
| 4/30/2015 3:22:04 | 39.70 | 37.50 | 929 | 1.52 | 0.21 | 50.8 |
| 4/30/2015 3:22:04 | 40.03 | 37.83 | 929 | 1.52 | 0.21 | 50.8 |
| 4/30/2015 3:22:05 | 40.35 | 38.15 | 955 | 1.30 | 0.23 | 52.2 |
| 4/30/2015 3:22:05 | 40.68 | 38.48 | 953 | 0.69 | 0.15 | 52.1 |
| 4/30/2015 3:22:06 | 41.01 | 38.81 | 794 | 1.09 | 0.18 | 43.4 |
| 4/30/2015 3:22:07 | 41.34 | 39.14 | 689 | 1.10 | 0.20 | 37.7 |
| 4/30/2015 3:22:07 | 41.67 | 39.47 | 689 | 1.10 | 0.20 | 37.7 |
| 4/30/2015 3:22:08 | 41.99 | 39.79 | 671 | 1.07 | 0.20 | 36.7 |
| 4/30/2015 3:22:08 | 42.32 | 40.12 | 621 | 1.05 | 0.18 | 34.0 |
| 4/30/2015 3:22:09 | 42.65 | 40.45 | 595 | 1.05 | 0.18 | 32.5 |
| 4/30/2015 3:22:09 | 42.98 | 40.78 | 728 | 1.04 | 0.18 | 39.8 |
| 4/30/2015 3:22:10 | 43.31 | 41.11 | 808 | 1.05 | 0.18 | 44.2 |
| 4/30/2015 3:22:10 | 43.64 | 41.44 | 808 | 1.05 | 0.18 | 44.2 |
| 4/30/2015 3:22:10 | 43.96 | 41.76 | 798 | 1.05 | 0.18 | 43.6 |
| 4/30/2015 3:22:11 | 44.29 | 42.09 | 807 | 1.05 | 0.17 | 44.1 |
| 4/30/2015 3:22:11 | 44.62 | 42.42 | 810 | 1.04 | 0.18 | 44.3 |
| 4/30/2015 3:22:12 | 44.95 | 42.75 | 805 | 1.03 | 0.18 | 44.0 |
| 4/30/2015 3:22:12 | 45.28 | 43.08 | 804 | 1.04 | 0.18 | 44.0 |
| 4/30/2015 3:22:13 | 45.60 | 43.40 | 804 | 1.04 | 0.18 | 44.0 |
| 4/30/2015 3:22:13 | 45.93 | 43.73 | 804 | 1.06 | 0.18 | 44.0 |
| 4/30/2015 3:22:13 | 46.26 | 44.06 | 799 | 1.05 | 0.18 | 43.7 |
| 4/30/2015 3:22:14 | 46.59 | 44.39 | 804 | 1.05 | 0.17 | 44.0 |
| 4/30/2015 3:22:14 | 46.92 | 44.72 | 806 | 1.05 | 0.17 | 44.1 |
| 4/30/2015 3:22:15 | 47.24 | 45.04 | 801 | 1.07 | 0.18 | 43.8 |
| 4/30/2015 3:22:23 | 47.57 | 45.37 | 56 | 1.08 | 1.25 | 3.1 |
| 4/30/2015 3:22:25 | 47.90 | 45.70 | 175 | 1.09 | 1.38 | 9.5 |
| 4/30/2015 3:22:29 | 48.23 | 46.03 | 73 | 1.11 | 0.96 | 4.0 |
| 4/30/2015 3:22:31 | 48.56 | 46.36 | 198 | 1.93 | 1.29 | 10.8 |
| 4/30/2015 3:22:32 | 48.88 | 46.68 | 230 | 1.77 | 1.90 | 12.6 |
| 4/30/2015 3:22:39 | 49.21 | 47.01 | 72 | 1.13 | 1.07 | 3.9 |
| 4/30/2015 3:22:46 | 49.54 | 47.34 | 26 | 1.62 | 1.92 | 1.4 |
| 4/30/2015 3:22:47 | 49.87 | 47.67 | 158 | 1.86 | 1.47 | 8.6 |
| 4/30/2015 3:22:54 | 50.20 | 48.00 | 71 | 0.99 | 1.24 | 3.9 |
| 4/30/2015 3:22:56 | 50.53 | 48.33 | 148 | 1.02 | 1.17 | 8.1 |
| 4/30/2015 3:23:01 | 50.85 | 48.65 | 72 | 1.08 | 1.00 | 3.9 |
| 4/30/2015 3:23:11 | 51.18 | 48.98 | 36 | 1.03 | 0.86 | 2.0 |
| 4/30/2015 3:23:21 | 51.51 | 49.31 | 34 | 1.05 | 0.85 | 1.8 |
| 4/30/2015 3:23:31 | 51.84 | 49.64 | 37 | 1.00 | 0.84 | 2.0 |
| 4/30/2015 3:23:32 | 51.90 | 49.70 | 35 | 1.03 | 1.08 | 1.9 |

## K168 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:20:46

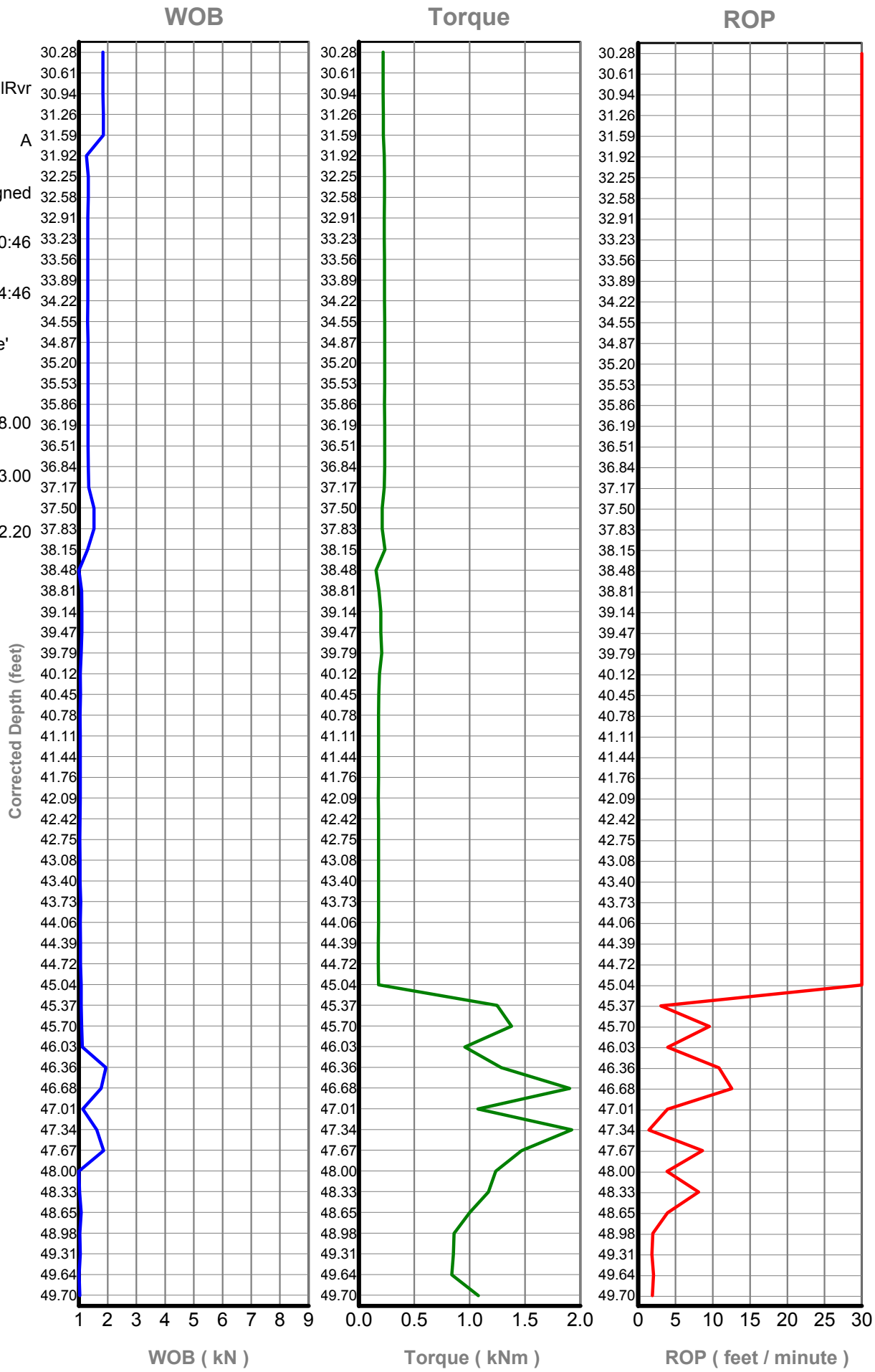
**End Date:**
4/30/2015 3:24:46

**Operator Note:**
'2.2 2.2 b Auto Complete'

**Northing:**
362,028.00

**Easting:**
245,403.00

**Tide (feet):**
2.20



## Hole: K169 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:22:04 | 32.48 | 30.28 | 1,175 | 0.30 | 0.38 | 64.2 |
| 4/30/2015 3:22:04 | 32.81 | 30.61 | 1,159 | 0.30 | 0.38 | 63.4 |
| 4/30/2015 3:22:05 | 33.14 | 30.94 | 1,159 | 0.30 | 0.38 | 63.4 |
| 4/30/2015 3:22:05 | 33.46 | 31.26 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 3:22:05 | 33.79 | 31.59 | 1,155 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 3:22:06 | 34.12 | 31.92 | 1,155 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 3:22:06 | 34.45 | 32.25 | 1,175 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:07 | 34.78 | 32.58 | 1,175 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:07 | 35.11 | 32.91 | 1,173 | 0.31 | 0.36 | 64.1 |
| 4/30/2015 3:22:07 | 35.43 | 33.23 | 1,175 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:22:08 | 35.76 | 33.56 | 1,175 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:22:08 | 36.09 | 33.89 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/30/2015 3:22:08 | 36.42 | 34.22 | 1,165 | 0.31 | 0.38 | 63.7 |
| 4/30/2015 3:22:08 | 36.75 | 34.55 | 1,182 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 3:22:09 | 37.07 | 34.87 | 1,155 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 3:22:09 | 37.40 | 35.20 | 1,155 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 3:22:09 | 37.73 | 35.53 | 1,163 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 3:22:10 | 38.06 | 35.86 | 1,163 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 3:22:10 | 38.39 | 36.19 | 1,163 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 3:22:10 | 38.71 | 36.51 | 1,163 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 3:22:10 | 39.04 | 36.84 | 1,166 | 0.30 | 0.38 | 63.8 |
| 4/30/2015 3:22:11 | 39.37 | 37.17 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 3:22:11 | 39.70 | 37.50 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 3:22:11 | 40.03 | 37.83 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 3:22:12 | 40.35 | 38.15 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 3:22:12 | 40.68 | 38.48 | 1,167 | 0.30 | 0.37 | 63.8 |
| 4/30/2015 3:22:12 | 41.01 | 38.81 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:13 | 41.34 | 39.14 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:13 | 41.67 | 39.47 | 1,177 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:22:13 | 41.99 | 39.79 | 1,177 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:22:13 | 42.32 | 40.12 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 3:22:14 | 42.65 | 40.45 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 3:22:14 | 42.98 | 40.78 | 1,174 | 0.31 | 0.38 | 64.2 |
| 4/30/2015 3:22:14 | 43.31 | 41.11 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:15 | 43.64 | 41.44 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:15 | 43.96 | 41.76 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 3:22:15 | 44.29 | 42.09 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 3:22:15 | 44.62 | 42.42 | 1,174 | 0.31 | 0.38 | 64.2 |
| 4/30/2015 3:22:16 | 44.95 | 42.75 | 1,170 | 0.30 | 0.37 | 64.0 |
| 4/30/2015 3:22:16 | 45.28 | 43.08 | 1,170 | 0.30 | 0.37 | 64.0 |
| 4/30/2015 3:22:17 | 45.60 | 43.40 | 1,182 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 3:22:17 | 45.93 | 43.73 | 1,182 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 3:22:17 | 46.26 | 44.06 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:18 | 46.59 | 44.39 | 1,177 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:22:18 | 46.92 | 44.72 | 1,177 | 0.31 | 0.38 | 64.3 |
| 4/30/2015 3:22:18 | 47.24 | 45.04 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 3:22:19 | 47.57 | 45.37 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 3:22:22 | 47.90 | 45.70 | 68 | 2.88 | 0.44 | 3.7 |
| 4/30/2015 3:22:24 | 48.23 | 46.03 | 133 | 3.64 | 0.46 | 7.3 |
| 4/30/2015 3:22:26 | 48.56 | 46.36 | 174 | 3.81 | 0.47 | 9.5 |
| 4/30/2015 3:22:30 | 48.88 | 46.68 | 77 | 2.99 | 0.44 | 4.2 |
| 4/30/2015 3:22:37 | 49.21 | 47.01 | 0 | 3.24 | 0.43 | 0.0 |
| 4/30/2015 3:22:38 | 49.54 | 47.34 | 148 | 3.90 | 0.44 | 8.1 |
| 4/30/2015 3:22:39 | 49.87 | 47.67 | 219 | 3.67 | 0.42 | 12.0 |
| 4/30/2015 3:22:40 | 50.20 | 48.00 | 417 | 3.22 | 0.42 | 22.8 |
| 4/30/2015 3:22:40 | 50.53 | 48.33 | 448 | 3.90 | 0.42 | 24.5 |
| 4/30/2015 3:22:41 | 50.85 | 48.65 | 492 | 3.07 | 0.42 | 26.9 |
| 4/30/2015 3:22:41 | 51.18 | 48.98 | 558 | 3.03 | 0.41 | 30.5 |
| 4/30/2015 3:22:49 | 51.51 | 49.31 | 58 | 3.63 | 0.42 | 3.2 |
| 4/30/2015 3:22:51 | 51.84 | 49.64 | 129 | 4.19 | 0.42 | 7.1 |
| 4/30/2015 3:22:52 | 52.17 | 49.97 | 207 | 4.85 | 0.44 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:22:53 | 52.49 | 50.29 | 322 | 3.58 | 0.43 | 17.6 |
| 4/30/2015 | 3:22:54 | 52.82 | 50.62 | 376 | 3.31 | 0.49 | 20.6 |
| 4/30/2015 | 3:22:55 | 53.15 | 50.95 | 370 | 3.52 | 0.43 | 20.2 |
| 4/30/2015 | 3:22:56 | 53.48 | 51.28 | 390 | 4.43 | 0.44 | 21.4 |
| 4/30/2015 | 3:22:57 | 53.81 | 51.61 | 399 | 4.11 | 0.44 | 21.8 |
| 4/30/2015 | 3:22:58 | 54.13 | 51.93 | 359 | 3.43 | 0.44 | 19.6 |
| 4/30/2015 | 3:22:59 | 54.46 | 52.26 | 321 | 3.12 | 0.44 | 17.6 |
| 4/30/2015 | 3:23:03 | 54.79 | 52.59 | 69 | 2.99 | 0.46 | 3.8 |
| 4/30/2015 | 3:23:11 | 55.12 | 52.92 | 46 | 3.00 | 0.47 | 2.5 |
| 4/30/2015 | 3:23:18 | 55.45 | 53.25 | 48 | 2.99 | 0.46 | 2.6 |
| 4/30/2015 | 3:23:25 | 55.76 | 53.56 | 43 | 2.98 | 0.46 | 2.4 |

## K169 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:20:38

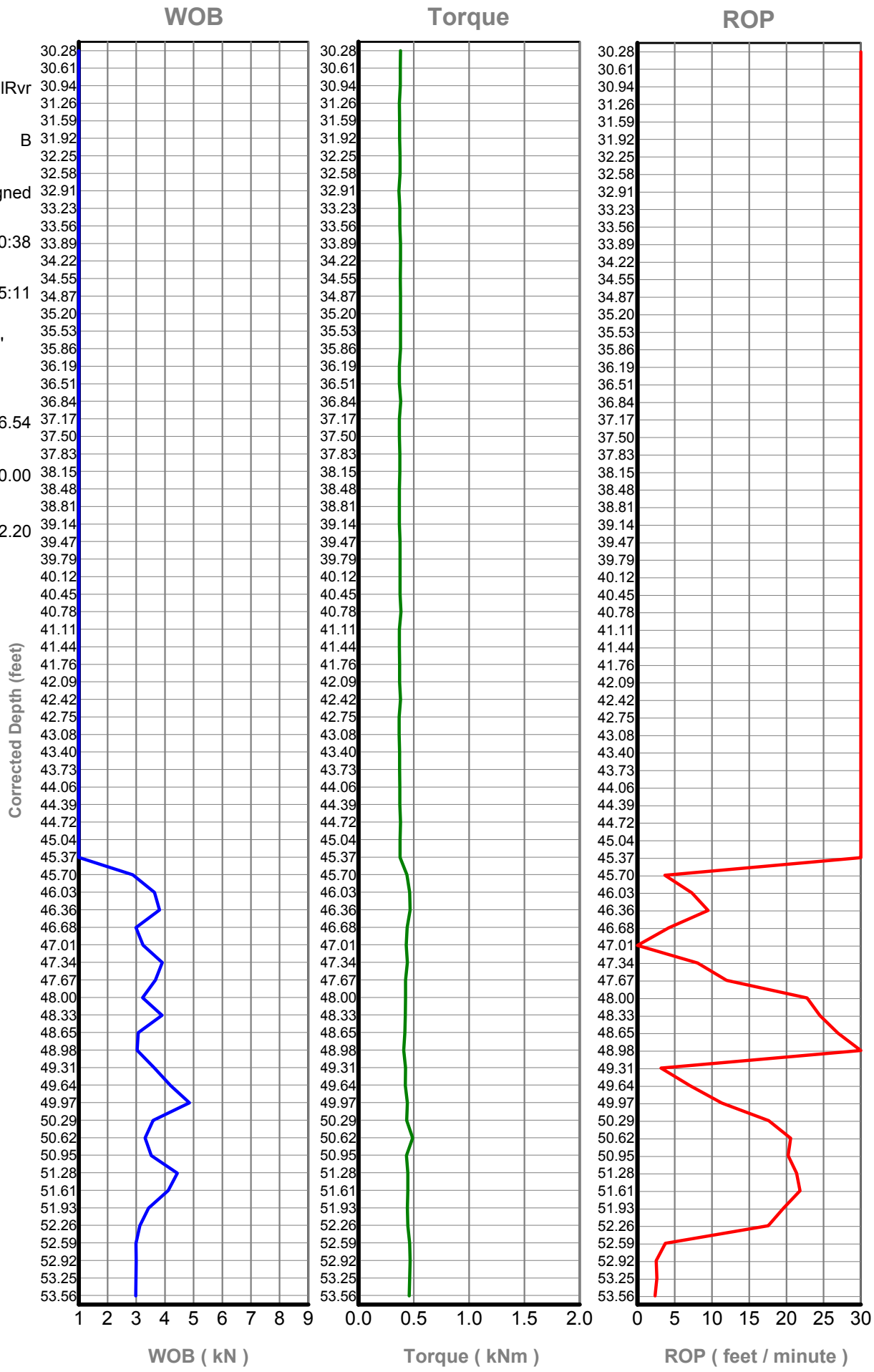
**End Date:**
4/30/2015 3:25:11

**Operator Note:**
'2.2 2.2b Auto Complete'

**Northing:**
362,076.54

**Easting:**
245,460.00

**Tide (feet):**
2.20



## Hole: K170 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:20:34 | 32.48 | 30.28 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 3:20:34 | 32.81 | 30.61 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:20:35 | 33.14 | 30.94 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:20:35 | 33.46 | 31.26 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:20:35 | 33.79 | 31.59 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:20:36 | 34.12 | 31.92 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:20:36 | 34.45 | 32.25 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:36 | 34.78 | 32.58 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:37 | 35.11 | 32.91 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:37 | 35.43 | 33.23 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:37 | 35.76 | 33.56 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:20:38 | 36.09 | 33.89 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:20:38 | 36.42 | 34.22 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:38 | 36.75 | 34.55 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:38 | 37.07 | 34.87 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:39 | 37.40 | 35.20 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:20:39 | 37.73 | 35.53 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 3:20:39 | 38.06 | 35.86 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 3:20:40 | 38.39 | 36.19 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 3:20:41 | 38.71 | 36.51 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 3:20:40 | 39.04 | 36.84 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:41 | 39.37 | 37.17 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 3:20:42 | 39.70 | 37.50 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 3:20:42 | 40.03 | 37.83 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:42 | 40.35 | 38.15 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:42 | 40.68 | 38.48 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:43 | 41.01 | 38.81 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 3:20:43 | 41.34 | 39.14 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 3:20:43 | 41.67 | 39.47 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:44 | 41.99 | 39.79 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:44 | 42.32 | 40.12 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:44 | 42.65 | 40.45 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:45 | 42.98 | 40.78 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:45 | 43.31 | 41.11 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 3:20:45 | 43.64 | 41.44 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:46 | 43.96 | 41.76 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 3:20:46 | 44.29 | 42.09 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 3:20:46 | 44.62 | 42.42 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 3:20:47 | 44.95 | 42.75 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 3:20:47 | 45.28 | 43.08 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:47 | 45.60 | 43.40 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:48 | 45.93 | 43.73 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:48 | 46.26 | 44.06 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:48 | 46.59 | 44.39 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:20:48 | 46.92 | 44.72 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:49 | 47.24 | 45.04 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 3:20:49 | 47.57 | 45.37 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 3:20:49 | 47.90 | 45.70 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 3:20:50 | 48.23 | 46.03 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 3:21:00 | 48.56 | 46.36 | 39 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 3:21:01 | 48.88 | 46.68 | 39 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 3:21:01 | 49.21 | 47.01 | 198 | 1.14 | 0.29 | 10.8 |
| 4/30/2015 3:21:02 | 49.54 | 47.34 | 344 | 1.14 | 0.29 | 18.8 |
| 4/30/2015 3:21:02 | 49.87 | 47.67 | 344 | 1.14 | 0.29 | 18.8 |
| 4/30/2015 3:21:22 | 50.20 | 48.00 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 3:21:22 | 50.53 | 48.33 | 53 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 3:21:23 | 50.85 | 48.65 | 227 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 3:21:30 | 51.18 | 48.98 | 53 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 3:21:32 | 51.51 | 49.31 | 189 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 3:21:33 | 51.84 | 49.64 | 241 | 1.14 | 0.29 | 13.2 |
| 4/30/2015 3:21:34 | 52.17 | 49.97 | 241 | 1.14 | 0.29 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:21:51 | 52.49 | 50.29 | 12 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 | 3:21:52 | 52.82 | 50.62 | 132 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 3:21:52 | 53.15 | 50.95 | 264 | 1.14 | 0.29 | 14.4 |
| 4/30/2015 | 3:21:53 | 53.48 | 51.28 | 405 | 1.14 | 0.29 | 22.2 |
| 4/30/2015 | 3:21:53 | 53.81 | 51.61 | 548 | 1.14 | 0.29 | 30.0 |
| 4/30/2015 | 3:22:16 | 54.13 | 51.93 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 3:22:16 | 54.46 | 52.26 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 3:22:17 | 54.79 | 52.59 | 166 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 | 3:22:18 | 55.12 | 52.92 | 260 | 1.14 | 0.29 | 14.2 |
| 4/30/2015 | 3:22:19 | 55.45 | 53.25 | 360 | 1.14 | 0.29 | 19.7 |
| 4/30/2015 | 3:22:21 | 55.77 | 53.57 | 89 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 | 3:22:23 | 56.10 | 53.90 | 173 | 1.14 | 0.29 | 9.4 |
| 4/30/2015 | 3:22:24 | 56.43 | 54.23 | 318 | 1.14 | 0.29 | 17.4 |
| 4/30/2015 | 3:22:26 | 56.76 | 54.56 | 287 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 | 3:22:27 | 57.09 | 54.89 | 248 | 1.14 | 0.29 | 13.6 |
| 4/30/2015 | 3:22:28 | 57.16 | 54.96 | 261 | 1.14 | 0.29 | 14.3 |

## K170 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:19:39

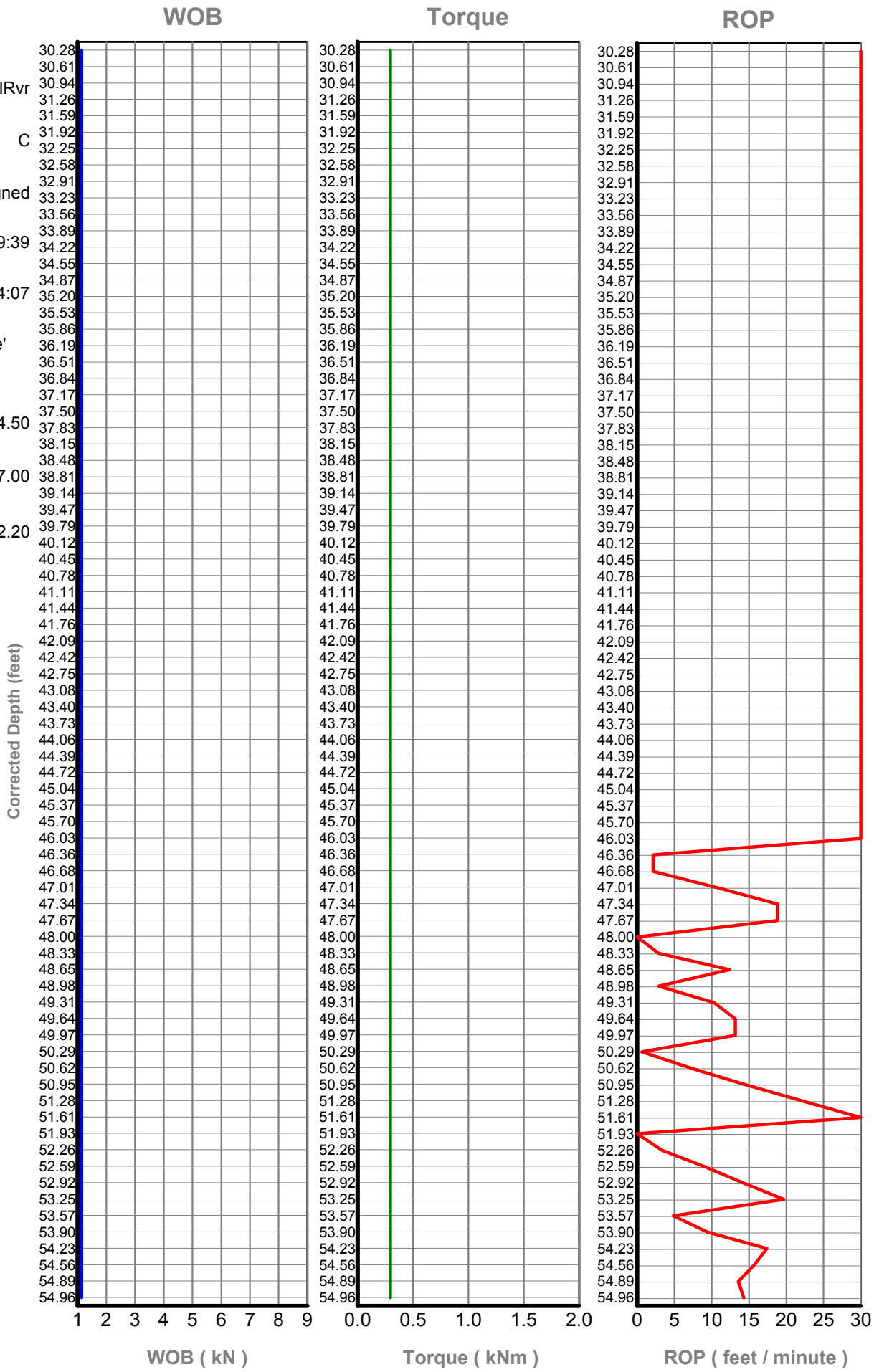
**End Date:**
4/30/2015 3:24:07

**Operator Note:**
'2.2 2.2 c Auto Complete'

**Northing:**
362,124.50

**Easting:**
245,517.00

**Tide (feet):**
2.20



## Hole: K171 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:03:41 | 35.76 | 30.26 | 827 | 1.09 | 0.33 | 45.2 |
| 4/30/2015 0:03:41 | 36.09 | 30.59 | 827 | 1.08 | 0.33 | 45.2 |
| 4/30/2015 0:03:42 | 36.42 | 30.92 | 839 | 1.10 | 0.33 | 45.9 |
| 4/30/2015 0:03:42 | 36.75 | 31.25 | 820 | 1.09 | 0.33 | 44.8 |
| 4/30/2015 0:03:43 | 37.07 | 31.57 | 820 | 1.07 | 0.33 | 44.8 |
| 4/30/2015 0:03:43 | 37.40 | 31.90 | 820 | 1.07 | 0.33 | 44.8 |
| 4/30/2015 0:03:43 | 37.73 | 32.23 | 837 | 1.08 | 0.33 | 45.8 |
| 4/30/2015 0:03:44 | 38.06 | 32.56 | 846 | 1.09 | 0.33 | 46.3 |
| 4/30/2015 0:03:44 | 38.39 | 32.89 | 827 | 1.09 | 0.33 | 45.2 |
| 4/30/2015 0:03:45 | 38.71 | 33.21 | 827 | 1.07 | 0.33 | 45.2 |
| 4/30/2015 0:03:46 | 39.04 | 33.54 | 817 | 1.07 | 0.33 | 44.7 |
| 4/30/2015 0:03:46 | 39.37 | 33.87 | 817 | 1.07 | 0.33 | 44.7 |
| 4/30/2015 0:03:46 | 39.70 | 34.20 | 837 | 1.08 | 0.33 | 45.8 |
| 4/30/2015 0:03:47 | 40.03 | 34.53 | 837 | 1.07 | 0.33 | 45.8 |
| 4/30/2015 0:03:47 | 40.35 | 34.85 | 847 | 1.08 | 0.33 | 46.3 |
| 4/30/2015 0:03:48 | 40.68 | 35.18 | 823 | 1.08 | 0.33 | 45.0 |
| 4/30/2015 0:03:48 | 41.01 | 35.51 | 822 | 1.09 | 0.33 | 45.0 |
| 4/30/2015 0:03:49 | 41.34 | 35.84 | 822 | 1.09 | 0.33 | 45.0 |
| 4/30/2015 0:03:49 | 41.67 | 36.17 | 822 | 1.07 | 0.33 | 45.0 |
| 4/30/2015 0:03:49 | 41.99 | 36.49 | 826 | 1.08 | 0.32 | 45.2 |
| 4/30/2015 0:03:50 | 42.32 | 36.82 | 826 | 1.09 | 0.33 | 45.2 |
| 4/30/2015 0:03:50 | 42.65 | 37.15 | 814 | 1.07 | 0.33 | 44.5 |
| 4/30/2015 0:03:51 | 42.98 | 37.48 | 814 | 1.07 | 0.33 | 44.5 |
| 4/30/2015 0:03:51 | 43.31 | 37.81 | 814 | 1.07 | 0.33 | 44.5 |
| 4/30/2015 0:03:51 | 43.64 | 38.14 | 815 | 1.09 | 0.33 | 44.6 |
| 4/30/2015 0:03:52 | 43.96 | 38.46 | 824 | 1.09 | 0.33 | 45.1 |
| 4/30/2015 0:03:52 | 44.29 | 38.79 | 824 | 1.06 | 0.32 | 45.1 |
| 4/30/2015 0:03:53 | 44.62 | 39.12 | 836 | 1.11 | 0.33 | 45.7 |
| 4/30/2015 0:03:53 | 44.95 | 39.45 | 836 | 1.11 | 0.33 | 45.7 |
| 4/30/2015 0:03:53 | 45.28 | 39.78 | 835 | 1.07 | 0.32 | 45.6 |
| 4/30/2015 0:03:54 | 45.60 | 40.10 | 806 | 1.09 | 0.33 | 44.1 |
| 4/30/2015 0:03:54 | 45.93 | 40.43 | 806 | 1.07 | 0.33 | 44.1 |
| 4/30/2015 0:03:55 | 46.26 | 40.76 | 829 | 1.08 | 0.33 | 45.3 |
| 4/30/2015 0:03:55 | 46.59 | 41.09 | 831 | 1.07 | 0.33 | 45.4 |
| 4/30/2015 0:03:56 | 46.92 | 41.42 | 809 | 1.10 | 0.33 | 44.2 |
| 4/30/2015 0:03:57 | 47.24 | 41.74 | 809 | 1.10 | 0.33 | 44.2 |
| 4/30/2015 0:03:57 | 47.57 | 42.07 | 809 | 1.09 | 0.33 | 44.2 |
| 4/30/2015 0:03:57 | 47.90 | 42.40 | 833 | 1.09 | 0.33 | 45.5 |
| 4/30/2015 0:03:58 | 48.23 | 42.73 | 818 | 1.09 | 0.33 | 44.7 |
| 4/30/2015 0:03:58 | 48.56 | 43.06 | 821 | 1.09 | 0.33 | 44.9 |
| 4/30/2015 0:03:59 | 48.88 | 43.38 | 821 | 1.07 | 0.33 | 44.9 |
| 4/30/2015 0:03:59 | 49.21 | 43.71 | 821 | 1.07 | 0.33 | 44.9 |
| 4/30/2015 0:03:59 | 49.54 | 44.04 | 824 | 1.07 | 0.33 | 45.1 |
| 4/30/2015 0:04:00 | 49.87 | 44.37 | 821 | 1.06 | 0.33 | 44.9 |
| 4/30/2015 0:04:00 | 50.20 | 44.70 | 821 | 1.09 | 0.33 | 44.9 |
| 4/30/2015 0:04:01 | 50.53 | 45.03 | 816 | 1.11 | 0.32 | 44.6 |
| 4/30/2015 0:04:01 | 50.85 | 45.35 | 803 | 1.15 | 0.32 | 43.9 |
| 4/30/2015 0:04:18 | 51.18 | 45.68 | 14 | 1.17 | 1.26 | 0.8 |
| 4/30/2015 0:04:26 | 51.51 | 46.01 | 80 | 1.11 | 1.70 | 4.4 |
| 4/30/2015 0:04:35 | 51.84 | 46.34 | 104 | 1.86 | 1.29 | 5.7 |
| 4/30/2015 0:04:35 | 52.17 | 46.67 | 195 | 1.91 | 1.56 | 10.7 |
| 4/30/2015 0:04:39 | 52.49 | 46.99 | 206 | 1.72 | 1.07 | 11.3 |
| 4/30/2015 0:04:41 | 52.82 | 47.32 | 131 | 1.97 | 1.22 | 7.1 |
| 4/30/2015 0:04:42 | 53.15 | 47.65 | 165 | 1.60 | 1.45 | 9.0 |
| 4/30/2015 0:04:43 | 53.48 | 47.98 | 282 | 2.02 | 1.67 | 15.4 |
| 4/30/2015 0:04:55 | 53.81 | 48.31 | 37 | 1.02 | 1.04 | 2.0 |
| 4/30/2015 0:04:56 | 54.13 | 48.63 | 180 | 0.98 | 1.16 | 9.9 |
| 4/30/2015 0:04:57 | 54.46 | 48.96 | 319 | 1.00 | 0.94 | 17.4 |
| 4/30/2015 0:04:57 | 54.79 | 49.29 | 370 | 0.97 | 0.83 | 20.2 |
| 4/30/2015 0:04:59 | 55.12 | 49.62 | 402 | 1.85 | 0.89 | 22.0 |
| 4/30/2015 0:06:13 | 55.45 | 49.95 | 0 | 1.76 | 0.82 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:06:14 | 55.77 | 50.27 | 161 | 1.61 | 0.86 | 8.8 |
| 4/30/2015 | 0:06:14 | 56.10 | 50.60 | 308 | 1.64 | 0.70 | 16.8 |
| 4/30/2015 | 0:06:15 | 56.43 | 50.93 | 308 | 1.64 | 0.70 | 16.8 |
| 4/30/2015 | 0:06:15 | 56.76 | 51.26 | 462 | 1.98 | 0.65 | 25.3 |
| 4/30/2015 | 0:06:27 | 57.09 | 51.59 | 0 | 1.04 | 0.67 | 0.0 |
| 4/30/2015 | 0:06:28 | 57.41 | 51.91 | 151 | 1.08 | 0.91 | 8.3 |
| 4/30/2015 | 0:06:41 | 57.74 | 52.24 | 9 | 1.07 | 0.86 | 0.5 |
| 4/30/2015 | 0:06:43 | 58.07 | 52.57 | 174 | 1.62 | 0.69 | 9.5 |
| 4/30/2015 | 0:06:43 | 58.40 | 52.90 | 174 | 1.62 | 0.69 | 9.5 |
| 4/30/2015 | 0:06:43 | 58.73 | 53.23 | 310 | 1.19 | 0.75 | 17.0 |
| 4/30/2015 | 0:06:44 | 59.06 | 53.56 | 465 | 1.75 | 0.71 | 25.4 |
| 4/30/2015 | 0:06:44 | 59.38 | 53.88 | 618 | 1.66 | 0.73 | 33.8 |
| 4/30/2015 | 0:06:45 | 59.71 | 54.21 | 732 | 1.05 | 0.77 | 40.0 |
| 4/30/2015 | 0:06:45 | 60.04 | 54.54 | 735 | 1.24 | 0.96 | 40.2 |
| 4/30/2015 | 0:06:48 | 60.37 | 54.87 | 127 | 1.10 | 1.15 | 7.0 |
| 4/30/2015 | 0:06:55 | 60.59 | 55.09 | 26 | 1.11 | 0.96 | 1.4 |

## K171 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:01:27

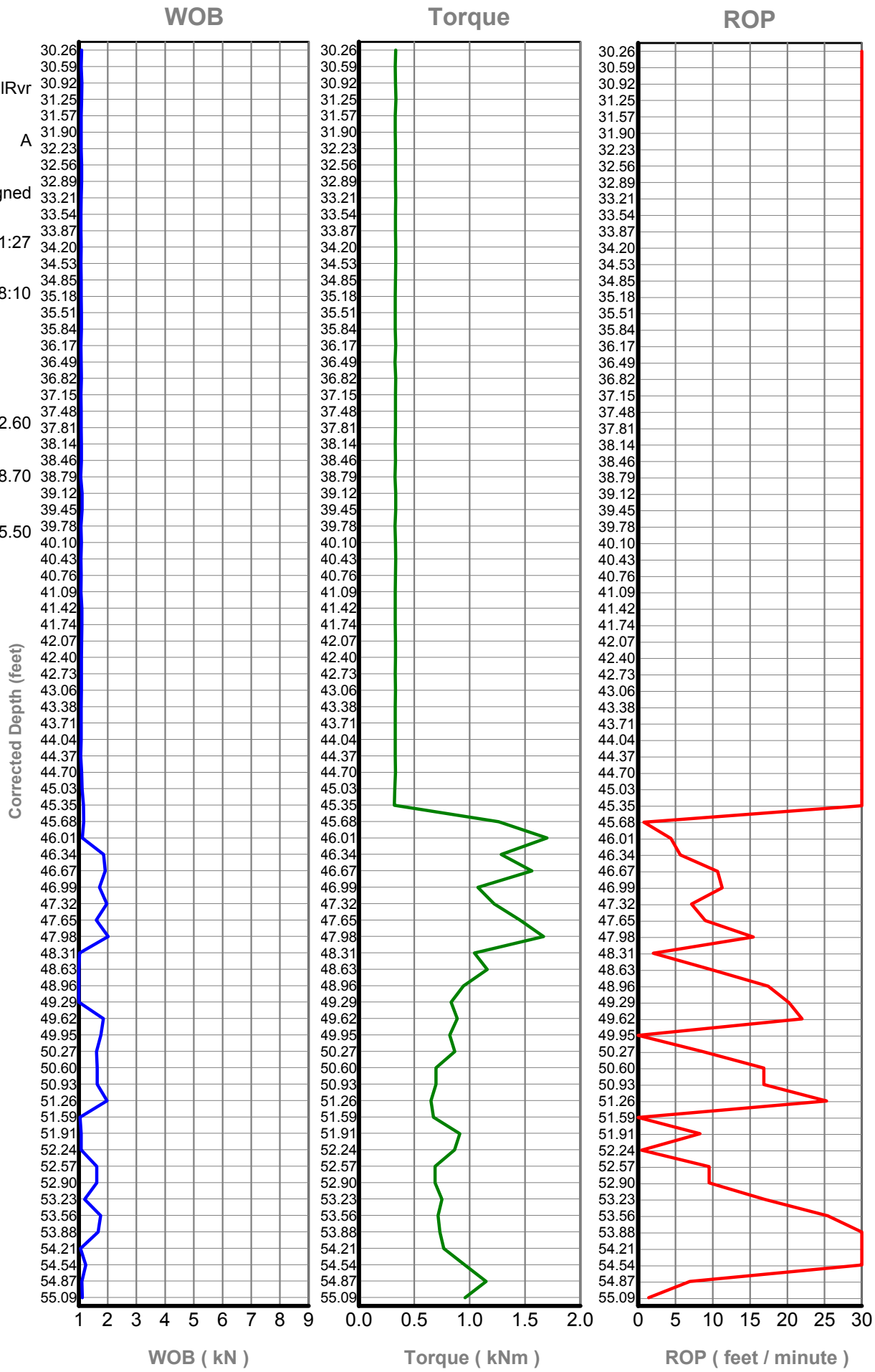
**End Date:**
4/30/2015 0:18:10

**Operator Note:**
'5.5 5.5 b Auto Complete'

**Northing:**
362,172.60

**Easting:**
245,578.70

**Tide (feet):**
5.50



## Hole: K172 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:04:29 | 35.76 | 30.26 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 0:04:29 | 36.09 | 30.59 | 1,105 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 0:04:29 | 36.42 | 30.92 | 1,102 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:30 | 36.75 | 31.25 | 1,102 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:30 | 37.07 | 31.57 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 0:04:30 | 37.40 | 31.90 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 0:04:30 | 37.73 | 32.23 | 1,090 | 0.33 | 0.37 | 59.6 |
| 4/30/2015 0:04:31 | 38.06 | 32.56 | 1,108 | 0.33 | 0.38 | 60.6 |
| 4/30/2015 0:04:31 | 38.39 | 32.89 | 1,108 | 0.33 | 0.38 | 60.6 |
| 4/30/2015 0:04:31 | 38.71 | 33.21 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 0:04:32 | 39.04 | 33.54 | 1,102 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 0:04:32 | 39.37 | 33.87 | 1,102 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 0:04:32 | 39.70 | 34.20 | 1,089 | 0.33 | 0.37 | 59.6 |
| 4/30/2015 0:04:33 | 40.03 | 34.53 | 1,089 | 0.33 | 0.37 | 59.6 |
| 4/30/2015 0:04:33 | 40.35 | 34.85 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 0:04:33 | 40.68 | 35.18 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 0:04:34 | 41.01 | 35.51 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 0:04:34 | 41.34 | 35.84 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 0:04:35 | 41.67 | 36.17 | 1,102 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:35 | 41.99 | 36.49 | 1,102 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:35 | 42.32 | 36.82 | 1,124 | 0.33 | 0.38 | 61.5 |
| 4/30/2015 0:04:36 | 42.65 | 37.15 | 1,124 | 0.33 | 0.38 | 61.5 |
| 4/30/2015 0:04:36 | 42.98 | 37.48 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 0:04:36 | 43.31 | 37.81 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/30/2015 0:04:37 | 43.64 | 38.14 | 1,104 | 0.33 | 0.37 | 60.4 |
| 4/30/2015 0:04:37 | 43.96 | 38.46 | 1,110 | 0.33 | 0.37 | 60.7 |
| 4/30/2015 0:04:37 | 44.29 | 38.79 | 1,110 | 0.33 | 0.37 | 60.7 |
| 4/30/2015 0:04:37 | 44.62 | 39.12 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 0:04:38 | 44.95 | 39.45 | 1,107 | 0.33 | 0.37 | 60.5 |
| 4/30/2015 0:04:38 | 45.28 | 39.78 | 1,107 | 0.33 | 0.37 | 60.5 |
| 4/30/2015 0:04:38 | 45.60 | 40.10 | 1,101 | 0.33 | 0.37 | 60.2 |
| 4/30/2015 0:04:39 | 45.93 | 40.43 | 1,104 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:39 | 46.26 | 40.76 | 1,104 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:39 | 46.59 | 41.09 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 0:04:40 | 46.92 | 41.42 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 0:04:40 | 47.24 | 41.74 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 0:04:40 | 47.57 | 42.07 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 0:04:41 | 47.90 | 42.40 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 0:04:41 | 48.23 | 42.73 | 1,097 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 0:04:41 | 48.56 | 43.06 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 0:04:42 | 48.88 | 43.38 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 0:04:42 | 49.21 | 43.71 | 1,103 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:42 | 49.54 | 44.04 | 1,103 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 0:04:42 | 49.87 | 44.37 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/30/2015 0:04:43 | 50.20 | 44.70 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 0:04:43 | 50.53 | 45.03 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 0:04:43 | 50.85 | 45.35 | 1,107 | 0.31 | 0.41 | 60.5 |
| 4/30/2015 0:04:48 | 51.18 | 45.68 | 50 | 4.21 | 0.47 | 2.7 |
| 4/30/2015 0:04:51 | 51.51 | 46.01 | 114 | 5.95 | 0.47 | 6.2 |
| 4/30/2015 0:04:53 | 51.84 | 46.34 | 132 | 3.83 | 0.45 | 7.2 |
| 4/30/2015 0:05:05 | 52.17 | 46.67 | 23 | 3.08 | 0.48 | 1.3 |
| 4/30/2015 0:05:07 | 52.49 | 46.99 | 120 | 3.54 | 0.43 | 6.6 |
| 4/30/2015 0:05:08 | 52.82 | 47.32 | 208 | 4.34 | 0.44 | 11.4 |
| 4/30/2015 0:05:13 | 53.15 | 47.65 | 104 | 3.31 | 0.42 | 5.7 |
| 4/30/2015 0:05:14 | 53.48 | 47.98 | 226 | 4.45 | 0.45 | 12.3 |
| 4/30/2015 0:05:20 | 53.81 | 48.31 | 35 | 7.63 | 0.48 | 1.9 |
| 4/30/2015 0:05:22 | 54.13 | 48.63 | 113 | 3.09 | 0.44 | 6.2 |
| 4/30/2015 0:05:26 | 54.46 | 48.96 | 104 | 6.03 | 0.48 | 5.7 |
| 4/30/2015 0:05:49 | 54.79 | 49.29 | 4 | 4.92 | 0.43 | 0.2 |
| 4/30/2015 0:05:50 | 55.12 | 49.62 | 116 | 3.84 | 0.43 | 6.3 |
| 4/30/2015 0:05:50 | 55.45 | 49.95 | 199 | 3.38 | 0.42 | 10.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:05:51 | 55.77 | 50.27 | 306 | 2.61 | 0.42 | 16.7 |
| 4/30/2015 | 0:06:00 | 56.10 | 50.60 | 73 | 2.67 | 0.46 | 4.0 |
| 4/30/2015 | 0:06:03 | 56.43 | 50.93 | 82 | 2.55 | 0.46 | 4.5 |
| 4/30/2015 | 0:06:04 | 56.76 | 51.26 | 137 | 2.37 | 0.43 | 7.5 |
| 4/30/2015 | 0:06:05 | 57.09 | 51.59 | 266 | 2.24 | 0.41 | 14.5 |
| 4/30/2015 | 0:06:06 | 57.41 | 51.91 | 373 | 2.44 | 0.42 | 20.4 |
| 4/30/2015 | 0:06:16 | 57.74 | 52.24 | 0 | 2.38 | 0.44 | 0.0 |
| 4/30/2015 | 0:06:21 | 58.07 | 52.57 | 51 | 2.49 | 0.44 | 2.8 |
| 4/30/2015 | 0:06:22 | 58.40 | 52.90 | 121 | 2.52 | 0.44 | 6.6 |
| 4/30/2015 | 0:06:24 | 58.73 | 53.23 | 197 | 2.69 | 0.46 | 10.8 |
| 4/30/2015 | 0:06:26 | 59.06 | 53.56 | 170 | 2.45 | 0.44 | 9.3 |
| 4/30/2015 | 0:06:27 | 59.38 | 53.88 | 214 | 2.36 | 0.44 | 11.7 |
| 4/30/2015 | 0:06:28 | 59.71 | 54.21 | 272 | 2.36 | 0.43 | 14.9 |
| 4/30/2015 | 0:06:30 | 60.04 | 54.54 | 263 | 2.56 | 0.47 | 14.4 |
| 4/30/2015 | 0:06:34 | 60.37 | 54.87 | 77 | 3.75 | 0.46 | 4.2 |
| 4/30/2015 | 0:06:36 | 60.48 | 54.98 | 101 | 3.28 | 0.42 | 5.5 |

## K172 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:02:47

**End Date:**
4/30/2015 0:08:03

**Operator Note:**
'5.5 5.5b Auto Complete'

**Northing:**
362,219.22

**Easting:**
245,637.11

**Tide (feet):**
5.50



## Hole: K173 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 0:02:42 | 35.76 | 30.26 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:42 | 36.09 | 30.59 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:42 | 36.42 | 30.92 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 0:02:43 | 36.75 | 31.25 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 0:02:43 | 37.07 | 31.57 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:43 | 37.40 | 31.90 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:44 | 37.73 | 32.23 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:44 | 38.06 | 32.56 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:44 | 38.39 | 32.89 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:44 | 38.71 | 33.21 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 0:02:45 | 39.04 | 33.54 | 1,143 | 1.14 | 0.29 | 62.5 |
| 4/30/2015 0:02:45 | 39.37 | 33.87 | 1,143 | 1.14 | 0.29 | 62.5 |
| 4/30/2015 0:02:45 | 39.70 | 34.20 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:46 | 40.03 | 34.53 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:46 | 40.35 | 34.85 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:46 | 40.68 | 35.18 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:47 | 41.01 | 35.51 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:47 | 41.34 | 35.84 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:47 | 41.67 | 36.17 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:48 | 41.99 | 36.49 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:48 | 42.32 | 36.82 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:48 | 42.65 | 37.15 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 0:02:48 | 42.98 | 37.48 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:49 | 43.31 | 37.81 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:49 | 43.64 | 38.14 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 0:02:49 | 43.96 | 38.46 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:50 | 44.29 | 38.79 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:50 | 44.62 | 39.12 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 0:02:51 | 44.95 | 39.45 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:02:51 | 45.28 | 39.78 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 0:02:51 | 45.60 | 40.10 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:02:52 | 45.93 | 40.43 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:02:52 | 46.26 | 40.76 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 0:02:52 | 46.59 | 41.09 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:53 | 46.92 | 41.42 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:53 | 47.24 | 41.74 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 0:02:53 | 47.57 | 42.07 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:54 | 47.90 | 42.40 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:54 | 48.23 | 42.73 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 0:02:54 | 48.56 | 43.06 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 0:02:54 | 48.88 | 43.38 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:55 | 49.21 | 43.71 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:02:55 | 49.54 | 44.04 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 0:02:55 | 49.87 | 44.37 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:56 | 50.20 | 44.70 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:56 | 50.53 | 45.03 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:56 | 50.85 | 45.35 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:02:57 | 51.18 | 45.68 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 0:03:05 | 51.51 | 46.01 | 6 | 1.14 | 0.29 | 0.3 |
| 4/30/2015 0:03:06 | 51.84 | 46.34 | 226 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 0:03:09 | 52.17 | 46.67 | 51 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 0:03:09 | 52.49 | 46.99 | 34 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 0:03:10 | 52.82 | 47.32 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 0:03:11 | 53.15 | 47.65 | 413 | 1.14 | 0.29 | 22.6 |
| 4/30/2015 0:03:25 | 53.48 | 47.98 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 0:03:26 | 53.81 | 48.31 | 145 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 0:03:27 | 54.13 | 48.63 | 228 | 1.14 | 0.29 | 12.5 |
| 4/30/2015 0:03:28 | 54.46 | 48.96 | 407 | 1.14 | 0.29 | 22.3 |
| 4/30/2015 0:03:28 | 54.79 | 49.29 | 445 | 1.14 | 0.29 | 24.3 |
| 4/30/2015 0:03:46 | 55.12 | 49.62 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 0:03:47 | 55.45 | 49.95 | 99 | 1.14 | 0.29 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 0:03:47 | 55.77 | 50.27 | 207 | 1.14 | 0.29 | 11.3 |
| 4/30/2015 | 0:03:48 | 56.10 | 50.60 | 334 | 1.14 | 0.29 | 18.2 |
| 4/30/2015 | 0:03:54 | 56.43 | 50.93 | 12 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 | 0:03:55 | 56.76 | 51.26 | 149 | 1.14 | 0.29 | 8.1 |
| 4/30/2015 | 0:03:55 | 57.09 | 51.59 | 246 | 1.14 | 0.29 | 13.4 |
| 4/30/2015 | 0:04:20 | 57.41 | 51.91 | 80 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 0:04:20 | 57.74 | 52.24 | 191 | 1.14 | 0.29 | 10.4 |
| 4/30/2015 | 0:04:21 | 58.07 | 52.57 | 326 | 1.14 | 0.29 | 17.8 |
| 4/30/2015 | 0:04:21 | 58.40 | 52.90 | 468 | 1.14 | 0.29 | 25.6 |
| 4/30/2015 | 0:04:22 | 58.73 | 53.23 | 610 | 1.14 | 0.29 | 33.4 |
| 4/30/2015 | 0:04:22 | 59.06 | 53.56 | 657 | 1.14 | 0.29 | 35.9 |
| 4/30/2015 | 0:04:27 | 59.38 | 53.88 | 51 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 | 0:04:27 | 59.71 | 54.21 | 184 | 1.14 | 0.29 | 10.0 |
| 4/30/2015 | 0:04:28 | 60.04 | 54.54 | 387 | 1.14 | 0.29 | 21.2 |
| 4/30/2015 | 0:04:30 | 60.37 | 54.87 | 178 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 | 0:04:32 | 60.55 | 55.05 | 183 | 1.14 | 0.29 | 10.0 |

## K173 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 0:01:44

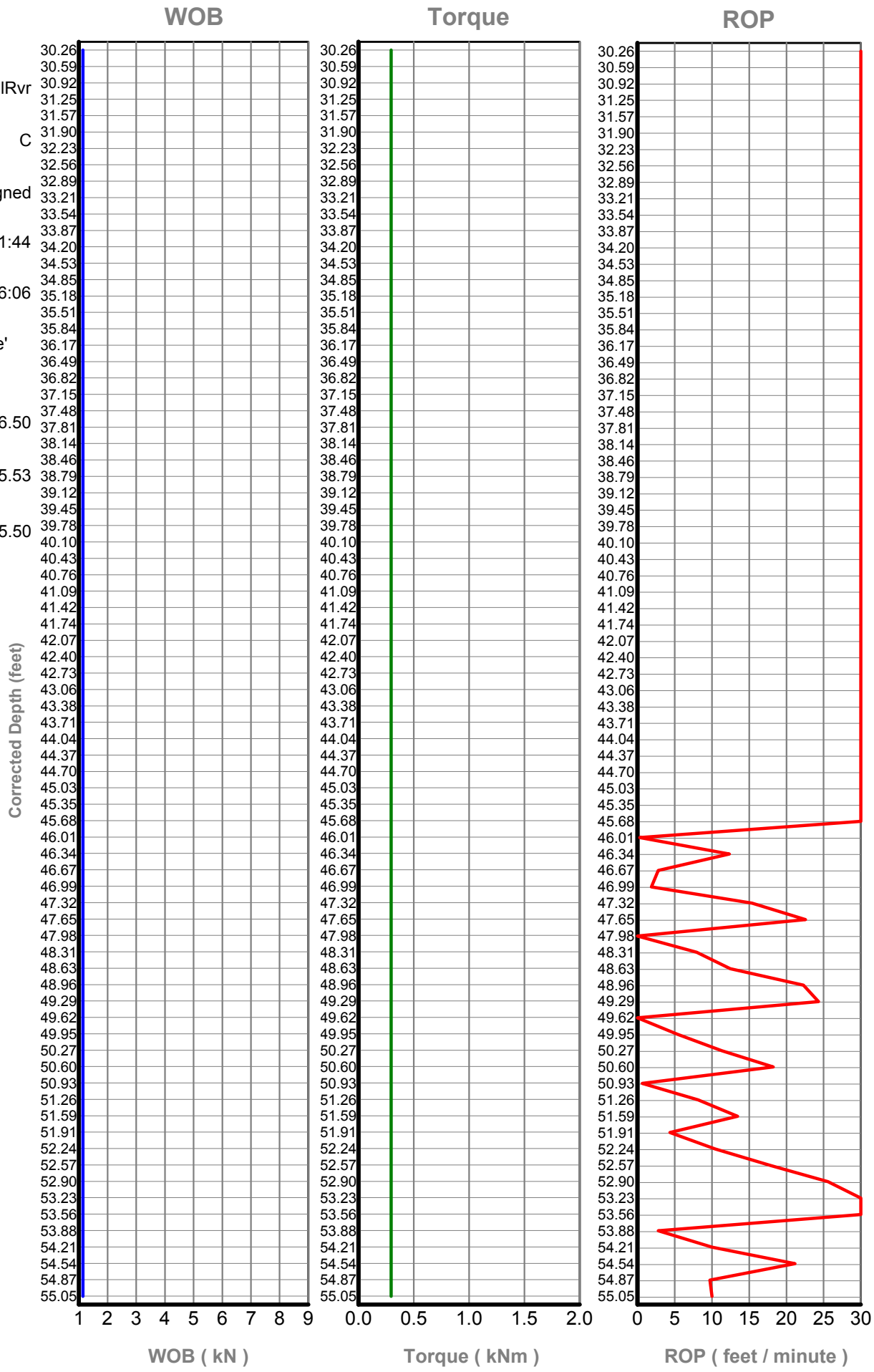
**End Date:**
4/30/2015 0:06:06

**Operator Note:**
'5.5 5.5 c Auto Complete'

**Northing:**
362,266.50

**Easting:**
245,695.53

**Tide (feet):**
5.50



## Hole: K175 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:34:57 | 36.42 | 30.32 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 9:34:58 | 36.75 | 30.65 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:34:58 | 37.07 | 30.97 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:34:58 | 37.40 | 31.30 | 1,045 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 9:34:59 | 37.73 | 31.63 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:34:59 | 38.06 | 31.96 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:34:59 | 38.39 | 32.29 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:35:00 | 38.71 | 32.61 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 9:35:00 | 39.04 | 32.94 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:35:00 | 39.37 | 33.27 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:35:01 | 39.70 | 33.60 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:35:01 | 40.03 | 33.93 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 9:35:01 | 40.35 | 34.25 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 9:35:02 | 40.68 | 34.58 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:35:03 | 41.01 | 34.91 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 9:35:03 | 41.34 | 35.24 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:35:03 | 41.67 | 35.57 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 9:35:03 | 41.99 | 35.89 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 9:35:04 | 42.32 | 36.22 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:04 | 42.65 | 36.55 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:04 | 42.98 | 36.88 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 9:35:05 | 43.31 | 37.21 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 9:35:05 | 43.64 | 37.54 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 9:35:05 | 43.96 | 37.86 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:06 | 44.29 | 38.19 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:06 | 44.62 | 38.52 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:06 | 44.95 | 38.85 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:07 | 45.28 | 39.18 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:07 | 45.60 | 39.50 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:07 | 45.93 | 39.83 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:08 | 46.26 | 40.16 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:08 | 46.59 | 40.49 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:08 | 46.92 | 40.82 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 9:35:09 | 47.24 | 41.14 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:09 | 47.57 | 41.47 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:09 | 47.90 | 41.80 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:10 | 48.23 | 42.13 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:10 | 48.56 | 42.46 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:10 | 48.88 | 42.78 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:11 | 49.21 | 43.11 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:11 | 49.54 | 43.44 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:11 | 49.87 | 43.77 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:12 | 50.20 | 44.10 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:35:12 | 50.53 | 44.43 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:12 | 50.85 | 44.75 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:13 | 51.18 | 45.08 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:13 | 51.51 | 45.41 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:14 | 51.84 | 45.74 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:14 | 52.17 | 46.07 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 9:35:14 | 52.49 | 46.39 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:15 | 52.82 | 46.72 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:15 | 53.15 | 47.05 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 9:35:16 | 53.48 | 47.38 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 9:35:16 | 53.81 | 47.71 | 751 | 1.14 | 0.29 | 41.1 |
| 4/30/2015 9:35:17 | 54.13 | 48.03 | 716 | 1.14 | 0.29 | 39.2 |
| 4/30/2015 9:35:17 | 54.46 | 48.36 | 714 | 1.14 | 0.29 | 39.0 |
| 4/30/2015 9:35:29 | 54.79 | 48.69 | 12 | 1.14 | 0.29 | 0.7 |
| 4/30/2015 9:35:30 | 55.12 | 49.02 | 112 | 1.14 | 0.29 | 6.1 |
| 4/30/2015 9:35:31 | 55.45 | 49.35 | 315 | 1.14 | 0.29 | 17.2 |
| 4/30/2015 9:35:31 | 55.77 | 49.67 | 427 | 1.14 | 0.29 | 23.4 |
| 4/30/2015 9:35:32 | 56.10 | 50.00 | 515 | 1.14 | 0.29 | 28.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:35:34 | 56.43 | 50.33 | 386 | 1.14 | 0.29 | 21.1 |
| 4/30/2015 | 9:36:02 | 56.76 | 50.66 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 9:36:04 | 57.09 | 50.99 | 131 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 9:36:40 | 57.41 | 51.31 | 12 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 | 9:36:42 | 57.74 | 51.64 | 187 | 1.14 | 0.29 | 10.2 |
| 4/30/2015 | 9:36:44 | 58.07 | 51.97 | 189 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 | 9:37:54 | 58.40 | 52.30 | 100 | 1.14 | 0.29 | 5.5 |
| 4/30/2015 | 9:38:05 | 58.73 | 52.63 | 101 | 1.14 | 0.29 | 5.5 |
| 4/30/2015 | 9:38:07 | 59.06 | 52.96 | 204 | 1.14 | 0.29 | 11.2 |
| 4/30/2015 | 9:38:20 | 59.38 | 53.28 | 76 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 | 9:38:35 | 59.71 | 53.61 | 67 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 | 9:38:42 | 60.04 | 53.94 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 9:38:48 | 60.37 | 54.27 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 9:39:06 | 60.70 | 54.60 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 | 9:39:12 | 60.90 | 54.80 | 29 | 1.14 | 0.29 | 1.6 |

## K175 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:33:30

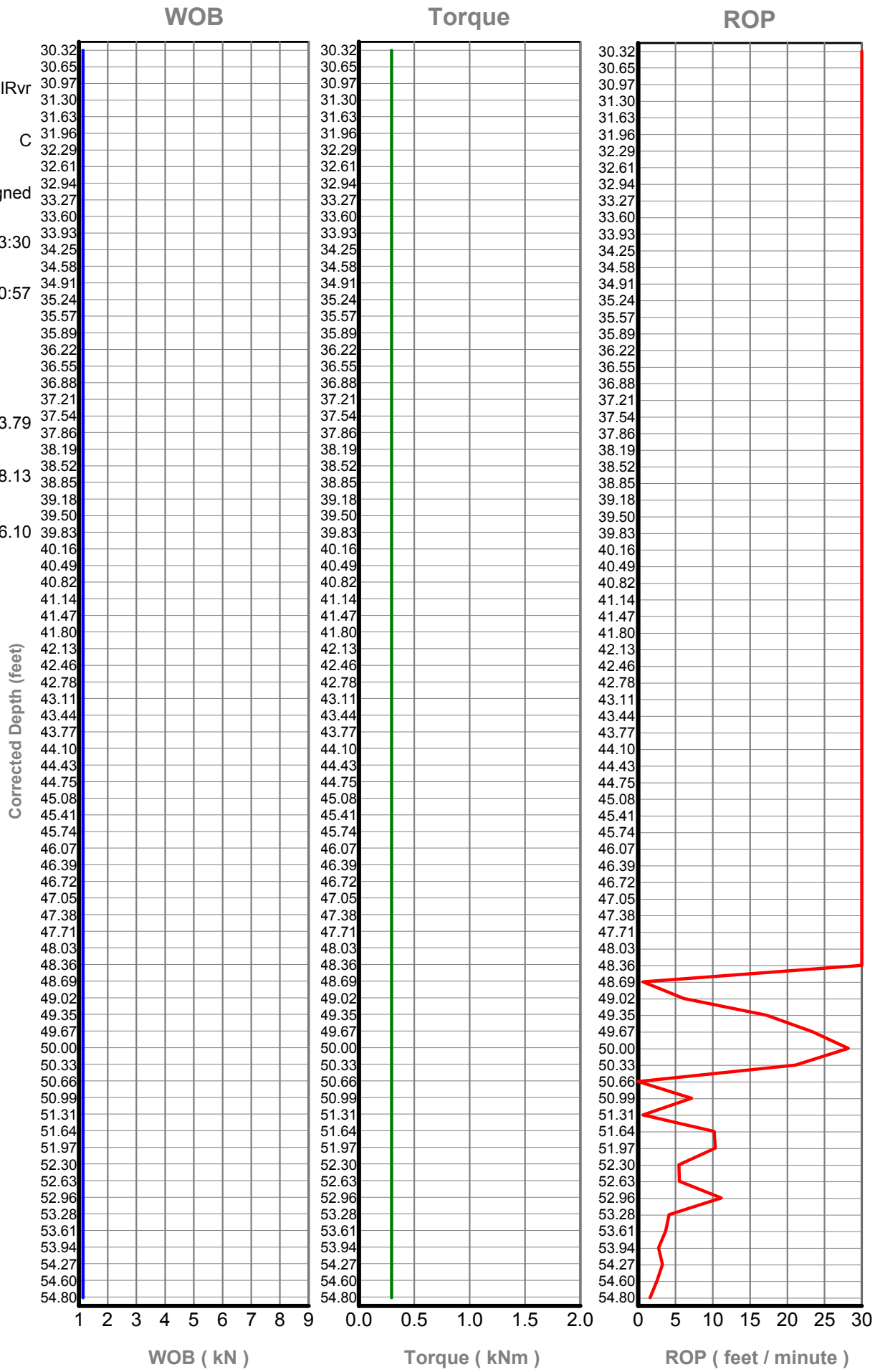
**End Date:**
4/30/2015 9:40:57

**Operator Note:**
'6.1 5.9 C Auto Complete'

**Northing:**
361,163.79

**Easting:**
244,438.13

**Tide (feet):**
6.10



## Hole: K176 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:50:14 | 36.42 | 30.22 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:50:15 | 36.75 | 30.55 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 9:50:15 | 37.07 | 30.87 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 9:50:15 | 37.40 | 31.20 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 9:50:15 | 37.73 | 31.53 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:16 | 38.06 | 31.86 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:16 | 38.39 | 32.19 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:16 | 38.71 | 32.51 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 9:50:17 | 39.04 | 32.84 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:17 | 39.37 | 33.17 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:17 | 39.70 | 33.50 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:18 | 40.03 | 33.83 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:18 | 40.35 | 34.15 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:18 | 40.68 | 34.48 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 9:50:19 | 41.01 | 34.81 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 9:50:19 | 41.34 | 35.14 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:19 | 41.67 | 35.47 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:20 | 41.99 | 35.79 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:20 | 42.32 | 36.12 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:20 | 42.65 | 36.45 | 1,080 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:21 | 42.98 | 36.78 | 1,080 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:21 | 43.31 | 37.11 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:21 | 43.64 | 37.44 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:22 | 43.96 | 37.76 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:22 | 44.29 | 38.09 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:23 | 44.62 | 38.42 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:23 | 44.95 | 38.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:23 | 45.28 | 39.08 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 9:50:24 | 45.60 | 39.40 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 9:50:24 | 45.93 | 39.73 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 9:50:24 | 46.26 | 40.06 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 9:50:25 | 46.59 | 40.39 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 9:50:25 | 46.92 | 40.72 | 1,080 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:25 | 47.24 | 41.04 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 9:50:26 | 47.57 | 41.37 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 9:50:26 | 47.90 | 41.70 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 9:50:26 | 48.23 | 42.03 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 9:50:27 | 48.56 | 42.36 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 9:50:27 | 48.88 | 42.68 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 9:50:27 | 49.21 | 43.01 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:50:28 | 49.54 | 43.34 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:50:28 | 49.87 | 43.67 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:50:28 | 50.20 | 44.00 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 9:50:28 | 50.53 | 44.33 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:29 | 50.85 | 44.65 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:29 | 51.18 | 44.98 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 9:50:29 | 51.51 | 45.31 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 9:50:30 | 51.84 | 45.64 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:30 | 52.17 | 45.97 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 9:50:30 | 52.49 | 46.29 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 9:50:31 | 52.82 | 46.62 | 1,058 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 9:50:31 | 53.15 | 46.95 | 1,058 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 9:50:42 | 53.48 | 47.28 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 9:50:43 | 53.81 | 47.61 | 74 | 1.14 | 0.29 | 4.1 |
| 4/30/2015 9:50:44 | 54.13 | 47.93 | 167 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 9:50:45 | 54.46 | 48.26 | 261 | 1.14 | 0.29 | 14.3 |
| 4/30/2015 9:50:48 | 54.79 | 48.59 | 295 | 1.14 | 0.29 | 16.1 |
| 4/30/2015 9:50:52 | 55.12 | 48.92 | 96 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 9:51:04 | 55.45 | 49.25 | 2 | 1.14 | 0.29 | 0.1 |
| 4/30/2015 9:51:10 | 55.77 | 49.57 | 72 | 1.14 | 0.29 | 3.9 |
| 4/30/2015 9:51:15 | 56.10 | 49.90 | 72 | 1.14 | 0.29 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:51:22 | 56.43 | 50.23 | 48 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 | 9:51:29 | 56.76 | 50.56 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 | 9:51:34 | 57.09 | 50.89 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 | 9:51:37 | 57.41 | 51.21 | 113 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 | 9:51:47 | 57.74 | 51.54 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 | 9:51:54 | 58.07 | 51.87 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 9:52:02 | 58.40 | 52.20 | 34 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 | 9:52:06 | 58.56 | 52.36 | 40 | 1.14 | 0.29 | 2.2 |

## K176 - Summary

**Pattern Number:**
AreaK_Lane16-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:49:08

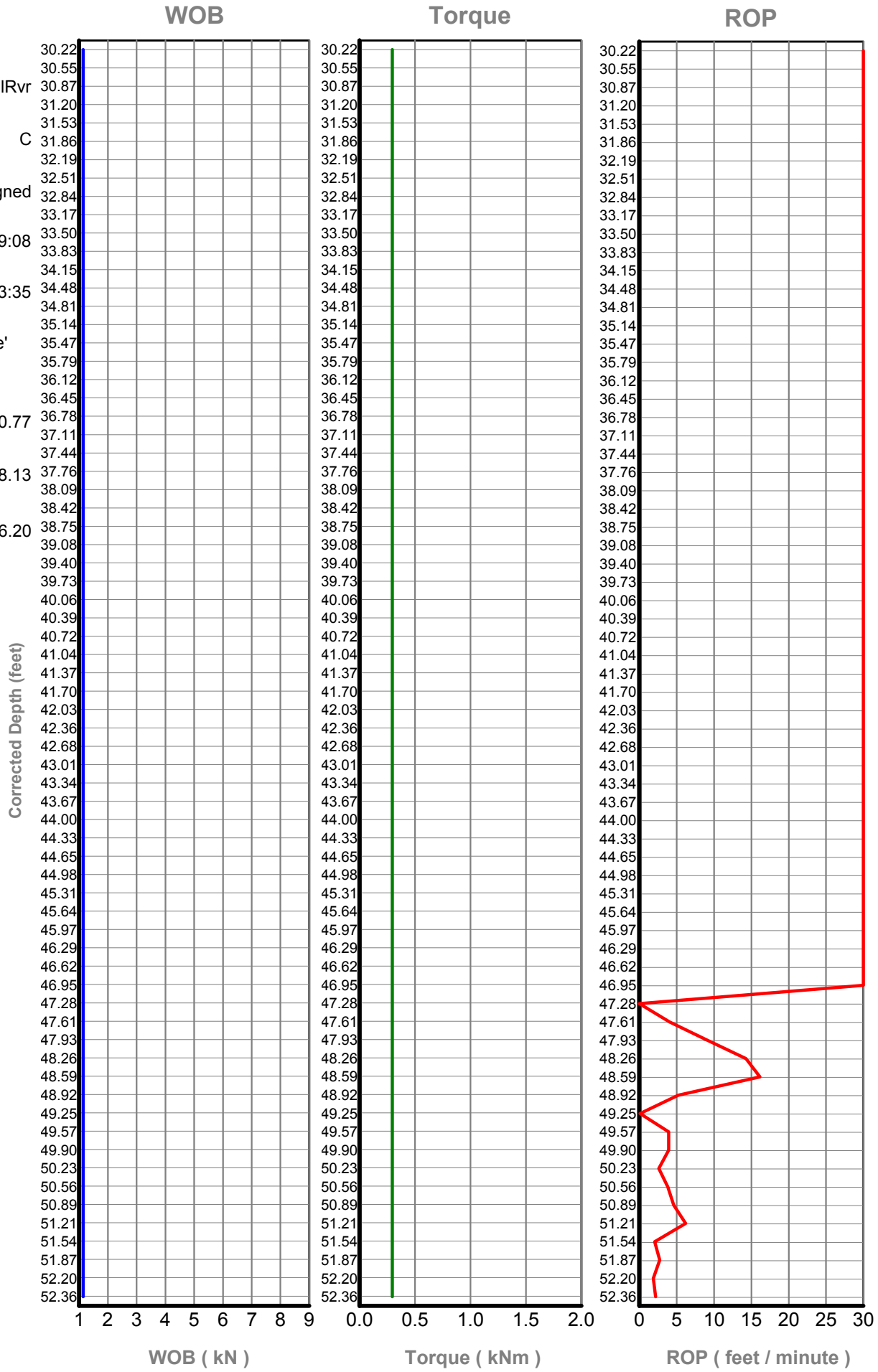
**End Date:**
4/30/2015 9:53:35

**Operator Note:**
'6.2 6.1 c Auto Complete'

**Northing:**
361,210.77

**Easting:**
244,498.13

**Tide (feet):**
6.20



## Hole: K177 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:07:09 | 36.09 | 30.19 | 899 | 1.15 | 0.16 | 49.2 |
| 4/30/2015 12:07:10 | 36.42 | 30.52 | 894 | 1.13 | 0.16 | 48.9 |
| 4/30/2015 12:07:10 | 36.75 | 30.85 | 894 | 1.13 | 0.16 | 48.9 |
| 4/30/2015 12:07:10 | 37.07 | 31.17 | 902 | 1.14 | 0.16 | 49.3 |
| 4/30/2015 12:07:11 | 37.40 | 31.50 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 12:07:11 | 37.73 | 31.83 | 899 | 1.15 | 0.16 | 49.2 |
| 4/30/2015 12:07:12 | 38.06 | 32.16 | 893 | 1.24 | 0.16 | 48.9 |
| 4/30/2015 12:07:12 | 38.39 | 32.49 | 893 | 1.24 | 0.16 | 48.9 |
| 4/30/2015 12:07:12 | 38.71 | 32.81 | 905 | 1.14 | 0.16 | 49.5 |
| 4/30/2015 12:07:13 | 39.04 | 33.14 | 902 | 1.13 | 0.16 | 49.3 |
| 4/30/2015 12:07:13 | 39.37 | 33.47 | 902 | 1.15 | 0.16 | 49.3 |
| 4/30/2015 12:07:14 | 39.70 | 33.80 | 902 | 1.15 | 0.16 | 49.3 |
| 4/30/2015 12:07:14 | 40.03 | 34.13 | 902 | 1.16 | 0.16 | 49.3 |
| 4/30/2015 12:07:14 | 40.35 | 34.45 | 907 | 1.15 | 0.16 | 49.6 |
| 4/30/2015 12:07:15 | 40.68 | 34.78 | 896 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 12:07:15 | 41.01 | 35.11 | 896 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 12:07:16 | 41.34 | 35.44 | 899 | 1.14 | 0.16 | 49.1 |
| 4/30/2015 12:07:16 | 41.67 | 35.77 | 883 | 1.15 | 0.16 | 48.3 |
| 4/30/2015 12:07:17 | 41.99 | 36.09 | 897 | 1.15 | 0.16 | 49.1 |
| 4/30/2015 12:07:17 | 42.32 | 36.42 | 897 | 1.15 | 0.16 | 49.1 |
| 4/30/2015 12:07:17 | 42.65 | 36.75 | 889 | 1.15 | 0.16 | 48.6 |
| 4/30/2015 12:07:18 | 42.98 | 37.08 | 895 | 1.15 | 0.16 | 48.9 |
| 4/30/2015 12:07:18 | 43.31 | 37.41 | 884 | 1.15 | 0.15 | 48.3 |
| 4/30/2015 12:07:19 | 43.64 | 37.74 | 908 | 1.16 | 0.16 | 49.7 |
| 4/30/2015 12:07:19 | 43.96 | 38.06 | 908 | 1.16 | 0.16 | 49.7 |
| 4/30/2015 12:07:19 | 44.29 | 38.39 | 891 | 1.15 | 0.16 | 48.7 |
| 4/30/2015 12:07:20 | 44.62 | 38.72 | 900 | 1.13 | 0.16 | 49.2 |
| 4/30/2015 12:07:20 | 44.95 | 39.05 | 891 | 1.17 | 0.16 | 48.7 |
| 4/30/2015 12:07:21 | 45.28 | 39.38 | 891 | 1.17 | 0.16 | 48.7 |
| 4/30/2015 12:07:21 | 45.60 | 39.70 | 899 | 1.15 | 0.16 | 49.2 |
| 4/30/2015 12:07:21 | 45.93 | 40.03 | 868 | 1.15 | 0.16 | 47.5 |
| 4/30/2015 12:07:22 | 46.26 | 40.36 | 868 | 1.15 | 0.16 | 47.5 |
| 4/30/2015 12:07:22 | 46.59 | 40.69 | 868 | 1.15 | 0.16 | 47.5 |
| 4/30/2015 12:07:22 | 46.92 | 41.02 | 873 | 1.16 | 0.15 | 47.8 |
| 4/30/2015 12:07:23 | 47.24 | 41.34 | 873 | 1.15 | 0.15 | 47.8 |
| 4/30/2015 12:07:23 | 47.57 | 41.67 | 872 | 1.13 | 0.16 | 47.7 |
| 4/30/2015 12:07:24 | 47.90 | 42.00 | 883 | 1.15 | 0.16 | 48.3 |
| 4/30/2015 12:07:24 | 48.23 | 42.33 | 883 | 1.15 | 0.16 | 48.3 |
| 4/30/2015 12:07:24 | 48.56 | 42.66 | 880 | 1.14 | 0.16 | 48.1 |
| 4/30/2015 12:07:25 | 48.88 | 42.98 | 897 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 12:07:25 | 49.21 | 43.31 | 900 | 1.16 | 0.16 | 49.2 |
| 4/30/2015 12:07:26 | 49.54 | 43.64 | 900 | 1.16 | 0.16 | 49.2 |
| 4/30/2015 12:07:26 | 49.87 | 43.97 | 893 | 1.15 | 0.16 | 48.8 |
| 4/30/2015 12:07:27 | 50.20 | 44.30 | 882 | 1.16 | 0.16 | 48.3 |
| 4/30/2015 12:07:27 | 50.53 | 44.63 | 890 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 12:07:28 | 50.85 | 44.95 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 12:07:28 | 51.18 | 45.28 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 12:07:28 | 51.51 | 45.61 | 882 | 1.16 | 0.15 | 48.2 |
| 4/30/2015 12:07:36 | 51.84 | 45.94 | 24 | 1.17 | 1.43 | 1.3 |
| 4/30/2015 12:07:37 | 52.17 | 46.27 | 161 | 1.15 | 0.83 | 8.8 |
| 4/30/2015 12:07:38 | 52.49 | 46.59 | 278 | 0.60 | 0.70 | 15.2 |
| 4/30/2015 12:07:41 | 52.82 | 46.92 | 109 | 1.15 | 0.85 | 5.9 |
| 4/30/2015 12:07:41 | 53.15 | 47.25 | 134 | 1.15 | 0.95 | 7.3 |
| 4/30/2015 12:07:44 | 53.48 | 47.58 | 189 | 1.17 | 1.48 | 10.3 |
| 4/30/2015 12:07:48 | 53.81 | 47.91 | 90 | 1.18 | 1.48 | 4.9 |
| 4/30/2015 12:07:52 | 54.13 | 48.23 | 116 | 1.91 | 1.21 | 6.4 |
| 4/30/2015 12:07:54 | 54.46 | 48.56 | 159 | 1.13 | 1.20 | 8.7 |
| 4/30/2015 12:07:56 | 54.79 | 48.89 | 155 | 1.11 | 1.08 | 8.5 |
| 4/30/2015 12:07:58 | 55.12 | 49.22 | 184 | 1.14 | 1.15 | 10.1 |
| 4/30/2015 12:08:03 | 55.45 | 49.55 | 73 | 1.19 | 1.23 | 4.0 |
| 4/30/2015 12:08:09 | 55.77 | 49.87 | 58 | 1.18 | 1.08 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:08:15 | 56.10 | 50.20 | 55 | 1.11 | 1.07 | 3.0 |
| 4/30/2015 | 12:08:22 | 56.43 | 50.53 | 55 | 1.09 | 1.20 | 3.0 |
| 4/30/2015 | 12:08:28 | 56.71 | 50.81 | 52 | 1.18 | 1.09 | 2.8 |

## K177 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:05:20

**End Date:**
4/30/2015 12:10:41

**Operator Note:**
'5.9 6.1 a Auto Complete'

**Northing:**
361,274.11

**Easting:**
244,577.00

**Tide (feet):**
5.90



## Hole: K178 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:06:23 | 36.09 | 30.09 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 12:06:24 | 36.42 | 30.42 | 1,217 | 0.31 | 0.37 | 66.5 |
| 4/30/2015 12:06:24 | 36.75 | 30.75 | 1,217 | 0.31 | 0.37 | 66.5 |
| 4/30/2015 12:06:24 | 37.07 | 31.07 | 1,199 | 0.35 | 0.38 | 65.6 |
| 4/30/2015 12:06:25 | 37.40 | 31.40 | 1,199 | 0.35 | 0.38 | 65.6 |
| 4/30/2015 12:06:25 | 37.73 | 31.73 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 12:06:25 | 38.06 | 32.06 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 12:06:26 | 38.39 | 32.39 | 1,184 | 0.26 | 0.37 | 64.7 |
| 4/30/2015 12:06:26 | 38.71 | 32.71 | 1,175 | 0.31 | 0.36 | 64.2 |
| 4/30/2015 12:06:26 | 39.04 | 33.04 | 1,175 | 0.31 | 0.36 | 64.2 |
| 4/30/2015 12:06:27 | 39.37 | 33.37 | 1,175 | 0.32 | 0.38 | 64.2 |
| 4/30/2015 12:06:27 | 39.70 | 33.70 | 1,175 | 0.32 | 0.38 | 64.2 |
| 4/30/2015 12:06:27 | 40.03 | 34.03 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 12:06:28 | 40.35 | 34.35 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 12:06:28 | 40.68 | 34.68 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 12:06:28 | 41.01 | 35.01 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 12:06:29 | 41.34 | 35.34 | 1,206 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 12:06:29 | 41.67 | 35.67 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 12:06:29 | 41.99 | 35.99 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 12:06:29 | 42.32 | 36.32 | 1,190 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 12:06:30 | 42.65 | 36.65 | 1,190 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 12:06:30 | 42.98 | 36.98 | 1,190 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:06:30 | 43.31 | 37.31 | 1,190 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 12:06:30 | 43.64 | 37.64 | 1,200 | 0.29 | 0.36 | 65.6 |
| 4/30/2015 12:06:31 | 43.96 | 37.96 | 1,190 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:06:31 | 44.29 | 38.29 | 1,190 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:06:31 | 44.62 | 38.62 | 1,198 | 0.29 | 0.36 | 65.5 |
| 4/30/2015 12:06:32 | 44.95 | 38.95 | 1,198 | 0.29 | 0.36 | 65.5 |
| 4/30/2015 12:06:32 | 45.28 | 39.28 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 12:06:32 | 45.60 | 39.60 | 1,201 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 12:06:32 | 45.93 | 39.93 | 1,237 | 0.29 | 0.38 | 67.7 |
| 4/30/2015 12:06:33 | 46.26 | 40.26 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 12:06:33 | 46.59 | 40.59 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 12:06:33 | 46.92 | 40.92 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 12:06:34 | 47.24 | 41.24 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 12:06:34 | 47.57 | 41.57 | 1,223 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 12:06:34 | 47.90 | 41.90 | 1,223 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 12:06:34 | 48.23 | 42.23 | 1,226 | 0.29 | 0.38 | 67.0 |
| 4/30/2015 12:06:35 | 48.56 | 42.56 | 1,226 | 0.29 | 0.38 | 67.0 |
| 4/30/2015 12:06:35 | 48.88 | 42.88 | 1,229 | 0.29 | 0.37 | 67.2 |
| 4/30/2015 12:06:35 | 49.21 | 43.21 | 1,219 | 0.29 | 0.36 | 66.6 |
| 4/30/2015 12:06:36 | 49.54 | 43.54 | 1,219 | 0.29 | 0.36 | 66.6 |
| 4/30/2015 12:06:36 | 49.87 | 43.87 | 1,231 | 0.29 | 0.37 | 67.3 |
| 4/30/2015 12:06:37 | 50.20 | 44.20 | 1,231 | 0.29 | 0.37 | 67.3 |
| 4/30/2015 12:06:37 | 50.53 | 44.53 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 12:06:37 | 50.85 | 44.85 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 12:06:37 | 51.18 | 45.18 | 1,212 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 12:06:38 | 51.51 | 45.51 | 1,198 | 0.27 | 0.43 | 65.5 |
| 4/30/2015 12:06:42 | 51.84 | 45.84 | 0 | 2.39 | 0.39 | 0.0 |
| 4/30/2015 12:06:45 | 52.17 | 46.17 | 96 | 3.88 | 0.45 | 5.2 |
| 4/30/2015 12:06:45 | 52.49 | 46.49 | 136 | 2.80 | 0.42 | 7.4 |
| 4/30/2015 12:06:47 | 52.82 | 46.82 | 338 | 2.29 | 0.42 | 18.5 |
| 4/30/2015 12:06:47 | 53.15 | 47.15 | 472 | 3.28 | 0.44 | 25.8 |
| 4/30/2015 12:06:51 | 53.48 | 47.48 | 59 | 7.24 | 0.44 | 3.2 |
| 4/30/2015 12:07:12 | 53.81 | 47.81 | 42 | 3.64 | 0.46 | 2.3 |
| 4/30/2015 12:07:17 | 54.13 | 48.13 | 63 | 3.26 | 0.46 | 3.4 |
| 4/30/2015 12:07:24 | 54.46 | 48.46 | 55 | 3.05 | 0.47 | 3.0 |
| 4/30/2015 12:07:30 | 54.79 | 48.79 | 61 | 2.87 | 0.46 | 3.3 |
| 4/30/2015 12:07:35 | 55.12 | 49.12 | 61 | 3.15 | 0.47 | 3.3 |
| 4/30/2015 12:07:39 | 55.32 | 49.32 | 66 | 2.98 | 0.47 | 3.6 |

## K178 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:00:28

**End Date:**
4/30/2015 12:09:21

**Operator Note:**
'6 6.1 b Rock'

**Northing:**
361,319.91

**Easting:**
244,636.39

**Tide (feet):**
6.00



## Hole: K179 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:06:28 | 36.09 | 30.19 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 12:06:28 | 36.42 | 30.52 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 12:06:29 | 36.75 | 30.85 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 12:06:29 | 37.07 | 31.17 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 12:06:30 | 37.40 | 31.50 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 12:06:30 | 37.73 | 31.83 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 12:06:30 | 38.06 | 32.16 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 12:06:31 | 38.39 | 32.49 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:06:31 | 38.71 | 32.81 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:06:31 | 39.04 | 33.14 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:06:32 | 39.37 | 33.47 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:06:32 | 39.70 | 33.80 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:06:32 | 40.03 | 34.13 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:06:33 | 40.35 | 34.45 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:06:33 | 40.68 | 34.78 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:33 | 41.01 | 35.11 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:33 | 41.34 | 35.44 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:34 | 41.67 | 35.77 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:34 | 41.99 | 36.09 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:34 | 42.32 | 36.42 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:06:35 | 42.65 | 36.75 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:35 | 42.98 | 37.08 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:35 | 43.31 | 37.41 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 12:06:36 | 43.64 | 37.74 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 12:06:36 | 43.96 | 38.06 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 12:06:36 | 44.29 | 38.39 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 12:06:37 | 44.62 | 38.72 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 12:06:37 | 44.95 | 39.05 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 12:06:37 | 45.28 | 39.38 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:38 | 45.60 | 39.70 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:38 | 45.93 | 40.03 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:38 | 46.26 | 40.36 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:38 | 46.59 | 40.69 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 12:06:39 | 46.92 | 41.02 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:06:39 | 47.24 | 41.34 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:06:39 | 47.57 | 41.67 | 1,107 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 12:06:40 | 47.90 | 42.00 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 12:06:40 | 48.23 | 42.33 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 12:06:40 | 48.56 | 42.66 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 12:06:41 | 48.88 | 42.98 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 12:06:42 | 49.21 | 43.31 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 12:06:42 | 49.54 | 43.64 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:06:58 | 49.87 | 43.97 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 12:06:59 | 50.20 | 44.30 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 12:06:59 | 50.53 | 44.63 | 235 | 1.14 | 0.29 | 12.9 |
| 4/30/2015 12:07:00 | 50.85 | 44.95 | 386 | 1.14 | 0.29 | 21.1 |
| 4/30/2015 12:07:02 | 51.18 | 45.28 | 287 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 12:07:32 | 51.51 | 45.61 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 12:08:12 | 51.84 | 45.94 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 12:08:19 | 52.17 | 46.27 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 12:08:26 | 52.49 | 46.59 | 57 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 12:08:32 | 52.82 | 46.92 | 54 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:08:38 | 53.15 | 47.25 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 12:08:44 | 53.48 | 47.58 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 12:08:46 | 53.62 | 47.72 | 67 | 1.14 | 0.29 | 3.7 |

## K179 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 12:05:00

**End Date:**
4/30/2015 12:10:15

**Operator Note:**
'5.9 6.1 C Auto Complete

**Northing:**
361,375.71

**Easting:**
244,695.78

**Tide (feet):**
5.90



## Hole: K18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:11:30 | 34.78 | 30.28 | 917 | 0.39 | 0.40 | 50.1 |
| 4/30/2015 8:11:30 | 35.11 | 30.61 | 934 | 0.39 | 0.40 | 51.1 |
| 4/30/2015 8:11:31 | 35.43 | 30.93 | 923 | 0.39 | 0.40 | 50.5 |
| 4/30/2015 8:11:31 | 35.76 | 31.26 | 937 | 0.39 | 0.41 | 51.2 |
| 4/30/2015 8:11:32 | 36.09 | 31.59 | 937 | 0.39 | 0.41 | 51.2 |
| 4/30/2015 8:11:32 | 36.42 | 31.92 | 909 | 0.39 | 0.41 | 49.7 |
| 4/30/2015 8:11:32 | 36.75 | 32.25 | 909 | 0.40 | 0.40 | 49.7 |
| 4/30/2015 8:11:33 | 37.07 | 32.57 | 906 | 0.39 | 0.42 | 49.5 |
| 4/30/2015 8:11:33 | 37.40 | 32.90 | 906 | 0.39 | 0.42 | 49.5 |
| 4/30/2015 8:11:33 | 37.73 | 33.23 | 906 | 0.40 | 0.40 | 49.5 |
| 4/30/2015 8:11:34 | 38.06 | 33.56 | 909 | 0.39 | 0.40 | 49.7 |
| 4/30/2015 8:11:34 | 38.39 | 33.89 | 920 | 0.40 | 0.41 | 50.3 |
| 4/30/2015 8:11:35 | 38.71 | 34.21 | 920 | 0.40 | 0.41 | 50.3 |
| 4/30/2015 8:11:35 | 39.04 | 34.54 | 923 | 0.39 | 0.40 | 50.5 |
| 4/30/2015 8:11:36 | 39.37 | 34.87 | 956 | 0.40 | 0.41 | 52.3 |
| 4/30/2015 8:11:36 | 39.70 | 35.20 | 956 | 0.40 | 0.41 | 52.3 |
| 4/30/2015 8:11:36 | 40.03 | 35.53 | 947 | 0.40 | 0.40 | 51.8 |
| 4/30/2015 8:11:37 | 40.35 | 35.85 | 947 | 0.39 | 0.40 | 51.8 |
| 4/30/2015 8:11:37 | 40.68 | 36.18 | 939 | 0.40 | 0.40 | 51.4 |
| 4/30/2015 8:11:38 | 41.01 | 36.51 | 939 | 0.40 | 0.40 | 51.4 |
| 4/30/2015 8:11:38 | 41.34 | 36.84 | 936 | 0.37 | 0.40 | 51.2 |
| 4/30/2015 8:11:38 | 41.67 | 37.17 | 928 | 0.39 | 0.40 | 50.7 |
| 4/30/2015 8:11:39 | 41.99 | 37.49 | 931 | 0.39 | 0.40 | 50.9 |
| 4/30/2015 8:11:39 | 42.32 | 37.82 | 931 | 0.39 | 0.40 | 50.9 |
| 4/30/2015 8:11:39 | 42.65 | 38.15 | 943 | 0.39 | 0.41 | 51.6 |
| 4/30/2015 8:11:40 | 42.98 | 38.48 | 937 | 0.39 | 0.41 | 51.2 |
| 4/30/2015 8:11:40 | 43.31 | 38.81 | 928 | 0.39 | 0.41 | 50.8 |
| 4/30/2015 8:11:41 | 43.64 | 39.14 | 928 | 0.39 | 0.41 | 50.8 |
| 4/30/2015 8:11:41 | 43.96 | 39.46 | 939 | 0.39 | 0.40 | 51.4 |
| 4/30/2015 8:11:41 | 44.29 | 39.79 | 937 | 0.39 | 0.40 | 51.2 |
| 4/30/2015 8:11:42 | 44.62 | 40.12 | 937 | 0.39 | 0.40 | 51.2 |
| 4/30/2015 8:11:42 | 44.95 | 40.45 | 940 | 0.39 | 0.40 | 51.4 |
| 4/30/2015 8:11:42 | 45.28 | 40.78 | 942 | 0.39 | 0.41 | 51.5 |
| 4/30/2015 8:11:43 | 45.60 | 41.10 | 948 | 0.39 | 0.41 | 51.8 |
| 4/30/2015 8:11:43 | 45.93 | 41.43 | 948 | 0.39 | 0.41 | 51.8 |
| 4/30/2015 8:11:43 | 46.26 | 41.76 | 942 | 0.39 | 0.40 | 51.5 |
| 4/30/2015 8:11:44 | 46.59 | 42.09 | 942 | 0.39 | 0.40 | 51.5 |
| 4/30/2015 8:11:44 | 46.92 | 42.42 | 940 | 0.39 | 0.40 | 51.4 |
| 4/30/2015 8:11:45 | 47.24 | 42.74 | 940 | 0.39 | 0.40 | 51.4 |
| 4/30/2015 8:11:45 | 47.57 | 43.07 | 945 | 0.39 | 0.41 | 51.7 |
| 4/30/2015 8:11:45 | 47.90 | 43.40 | 945 | 0.39 | 0.40 | 51.7 |
| 4/30/2015 8:11:46 | 48.23 | 43.73 | 945 | 0.39 | 0.40 | 51.7 |
| 4/30/2015 8:11:46 | 48.56 | 44.06 | 945 | 0.39 | 0.40 | 51.7 |
| 4/30/2015 8:11:47 | 48.88 | 44.38 | 948 | 0.39 | 0.40 | 51.8 |
| 4/30/2015 8:11:47 | 49.21 | 44.71 | 948 | 0.39 | 0.40 | 51.8 |
| 4/30/2015 8:11:48 | 49.54 | 45.04 | 948 | 0.39 | 0.40 | 51.8 |
| 4/30/2015 8:11:48 | 49.87 | 45.37 | 924 | 0.39 | 0.40 | 50.5 |
| 4/30/2015 8:11:48 | 50.20 | 45.70 | 924 | 0.39 | 0.41 | 50.5 |
| 4/30/2015 8:11:49 | 50.53 | 46.03 | 924 | 0.39 | 0.41 | 50.5 |
| 4/30/2015 8:11:49 | 50.85 | 46.35 | 933 | 0.39 | 0.40 | 51.0 |
| 4/30/2015 8:11:49 | 51.18 | 46.68 | 928 | 0.39 | 0.40 | 50.8 |
| 4/30/2015 8:11:50 | 51.51 | 47.01 | 920 | 0.39 | 0.40 | 50.3 |
| 4/30/2015 8:11:50 | 51.84 | 47.34 | 920 | 0.39 | 0.40 | 50.3 |
| 4/30/2015 8:11:50 | 52.17 | 47.67 | 920 | 0.39 | 0.40 | 50.3 |
| 4/30/2015 8:11:51 | 52.49 | 47.99 | 929 | 0.39 | 0.39 | 50.8 |
| 4/30/2015 8:11:51 | 52.82 | 48.32 | 939 | 0.39 | 0.40 | 51.3 |
| 4/30/2015 8:11:52 | 53.15 | 48.65 | 939 | 0.39 | 0.40 | 51.3 |
| 4/30/2015 8:11:52 | 53.48 | 48.98 | 939 | 0.39 | 0.42 | 51.3 |
| 4/30/2015 8:11:55 | 53.81 | 49.31 | 170 | 3.12 | 0.40 | 9.3 |
| 4/30/2015 8:11:58 | 54.13 | 49.63 | 127 | 3.54 | 0.43 | 7.0 |
| 4/30/2015 8:12:00 | 54.46 | 49.96 | 162 | 3.95 | 0.38 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 8:12:01 | 54.79 | 50.29 | 212 | 4.57 | 0.44 | 11.6 |
| 4/30/2015 | 8:12:03 | 55.12 | 50.62 | 175 | 3.09 | 0.38 | 9.5 |
| 4/30/2015 | 8:12:04 | 55.45 | 50.95 | 227 | 3.75 | 0.44 | 12.4 |
| 4/30/2015 | 8:12:58 | 55.77 | 51.27 | 3 | 4.19 | 0.46 | 0.2 |
| 4/30/2015 | 8:13:00 | 56.10 | 51.60 | 113 | 4.33 | 0.47 | 6.2 |
| 4/30/2015 | 8:13:02 | 56.43 | 51.93 | 189 | 3.71 | 0.46 | 10.3 |
| 4/30/2015 | 8:13:13 | 56.76 | 52.26 | 121 | 4.51 | 0.48 | 6.6 |
| 4/30/2015 | 8:13:15 | 57.09 | 52.59 | 151 | 4.71 | 0.47 | 8.2 |
| 4/30/2015 | 8:13:17 | 57.41 | 52.91 | 161 | 5.23 | 0.46 | 8.8 |
| 4/30/2015 | 8:13:28 | 57.74 | 53.24 | 112 | 4.85 | 0.47 | 6.1 |
| 4/30/2015 | 8:13:31 | 58.07 | 53.57 | 139 | 4.40 | 0.46 | 7.6 |
| 4/30/2015 | 8:13:34 | 58.40 | 53.90 | 92 | 3.42 | 0.47 | 5.0 |
| 4/30/2015 | 8:13:45 | 58.73 | 54.23 | 29 | 3.80 | 0.48 | 1.6 |
| 4/30/2015 | 8:13:53 | 59.00 | 54.50 | 37 | 3.73 | 0.47 | 2.0 |

## K18 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:09:37

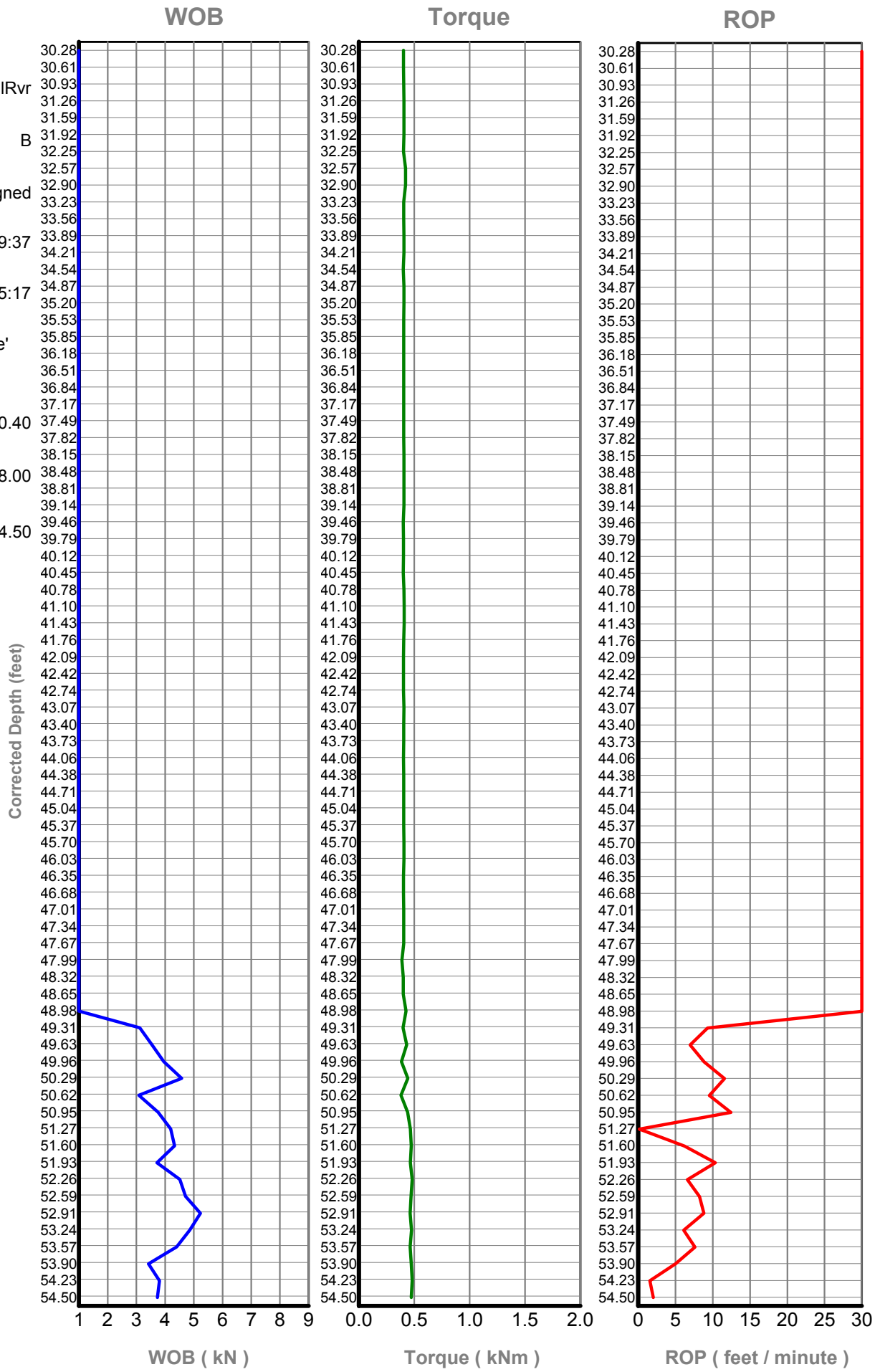
**End Date:**
4/30/2015 8:15:17

**Operator Note:**
'4.5 4.0 b Auto Complete'

**Northing:**
361,610.40

**Easting:**
244,158.00

**Tide (feet):**
4.50



## Hole: K180 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:31:42 | 32.81 | 30.31 | 918 | 1.01 | 0.12 | 50.2 |
| 4/29/2015 14:31:42 | 33.14 | 30.64 | 937 | 1.02 | 0.12 | 51.2 |
| 4/29/2015 14:31:42 | 33.46 | 30.96 | 937 | 1.02 | 0.12 | 51.2 |
| 4/29/2015 14:31:43 | 33.79 | 31.29 | 937 | 1.02 | 0.12 | 51.2 |
| 4/29/2015 14:31:43 | 34.12 | 31.62 | 940 | 1.03 | 0.12 | 51.4 |
| 4/29/2015 14:31:44 | 34.45 | 31.95 | 929 | 1.03 | 0.12 | 50.8 |
| 4/29/2015 14:31:44 | 34.78 | 32.28 | 920 | 1.00 | 0.12 | 50.3 |
| 4/29/2015 14:31:44 | 35.11 | 32.61 | 920 | 1.00 | 0.12 | 50.3 |
| 4/29/2015 14:31:45 | 35.43 | 32.93 | 920 | 1.00 | 0.12 | 50.3 |
| 4/29/2015 14:31:45 | 35.76 | 33.26 | 940 | 1.01 | 0.12 | 51.4 |
| 4/29/2015 14:31:46 | 36.09 | 33.59 | 940 | 1.03 | 0.12 | 51.4 |
| 4/29/2015 14:31:46 | 36.42 | 33.92 | 940 | 1.03 | 0.12 | 51.4 |
| 4/29/2015 14:31:46 | 36.75 | 34.25 | 944 | 1.01 | 0.12 | 51.6 |
| 4/29/2015 14:31:47 | 37.07 | 34.57 | 944 | 1.02 | 0.12 | 51.6 |
| 4/29/2015 14:31:47 | 37.40 | 34.90 | 944 | 1.02 | 0.12 | 51.6 |
| 4/29/2015 14:31:47 | 37.73 | 35.23 | 931 | 1.02 | 0.12 | 50.9 |
| 4/29/2015 14:31:48 | 38.06 | 35.56 | 931 | 1.02 | 0.12 | 50.9 |
| 4/29/2015 14:31:48 | 38.39 | 35.89 | 951 | 1.03 | 0.12 | 52.0 |
| 4/29/2015 14:31:49 | 38.71 | 36.21 | 951 | 1.03 | 0.12 | 52.0 |
| 4/29/2015 14:31:49 | 39.04 | 36.54 | 957 | 1.01 | 0.12 | 52.3 |
| 4/29/2015 14:31:49 | 39.37 | 36.87 | 954 | 1.03 | 0.12 | 52.2 |
| 4/29/2015 14:31:50 | 39.70 | 37.20 | 954 | 1.03 | 0.12 | 52.2 |
| 4/29/2015 14:31:50 | 40.03 | 37.53 | 961 | 1.01 | 0.12 | 52.6 |
| 4/29/2015 14:31:50 | 40.35 | 37.85 | 961 | 1.03 | 0.12 | 52.6 |
| 4/29/2015 14:31:51 | 40.68 | 38.18 | 948 | 1.01 | 0.12 | 51.8 |
| 4/29/2015 14:31:51 | 41.01 | 38.51 | 948 | 1.01 | 0.12 | 51.8 |
| 4/29/2015 14:31:51 | 41.34 | 38.84 | 937 | 1.02 | 0.12 | 51.2 |
| 4/29/2015 14:31:52 | 41.67 | 39.17 | 945 | 1.04 | 0.12 | 51.7 |
| 4/29/2015 14:31:52 | 41.99 | 39.49 | 940 | 1.02 | 0.12 | 51.4 |
| 4/29/2015 14:31:53 | 42.32 | 39.82 | 940 | 1.02 | 0.12 | 51.4 |
| 4/29/2015 14:31:53 | 42.65 | 40.15 | 937 | 1.03 | 0.12 | 51.2 |
| 4/29/2015 14:31:53 | 42.98 | 40.48 | 939 | 1.01 | 0.12 | 51.4 |
| 4/29/2015 14:31:54 | 43.31 | 40.81 | 942 | 1.03 | 0.12 | 51.5 |
| 4/29/2015 14:31:55 | 43.64 | 41.14 | 942 | 1.03 | 0.12 | 51.5 |
| 4/29/2015 14:31:55 | 43.96 | 41.46 | 916 | 1.02 | 0.12 | 50.1 |
| 4/29/2015 14:31:55 | 44.29 | 41.79 | 916 | 1.04 | 0.12 | 50.1 |
| 4/29/2015 14:31:56 | 44.62 | 42.12 | 916 | 1.04 | 0.12 | 50.1 |
| 4/29/2015 14:31:56 | 44.95 | 42.45 | 931 | 1.03 | 0.12 | 50.9 |
| 4/29/2015 14:31:56 | 45.28 | 42.78 | 928 | 1.00 | 0.12 | 50.7 |
| 4/29/2015 14:31:57 | 45.60 | 43.10 | 928 | 1.04 | 0.12 | 50.8 |
| 4/29/2015 14:31:57 | 45.93 | 43.43 | 928 | 1.04 | 0.12 | 50.8 |
| 4/29/2015 14:31:57 | 46.26 | 43.76 | 928 | 1.02 | 0.12 | 50.7 |
| 4/29/2015 14:31:58 | 46.59 | 44.09 | 945 | 1.08 | 0.12 | 51.7 |
| 4/29/2015 14:31:58 | 46.88 | 44.38 | 911 | 0.42 | 0.16 | 49.8 |

## K180 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 14:30:21

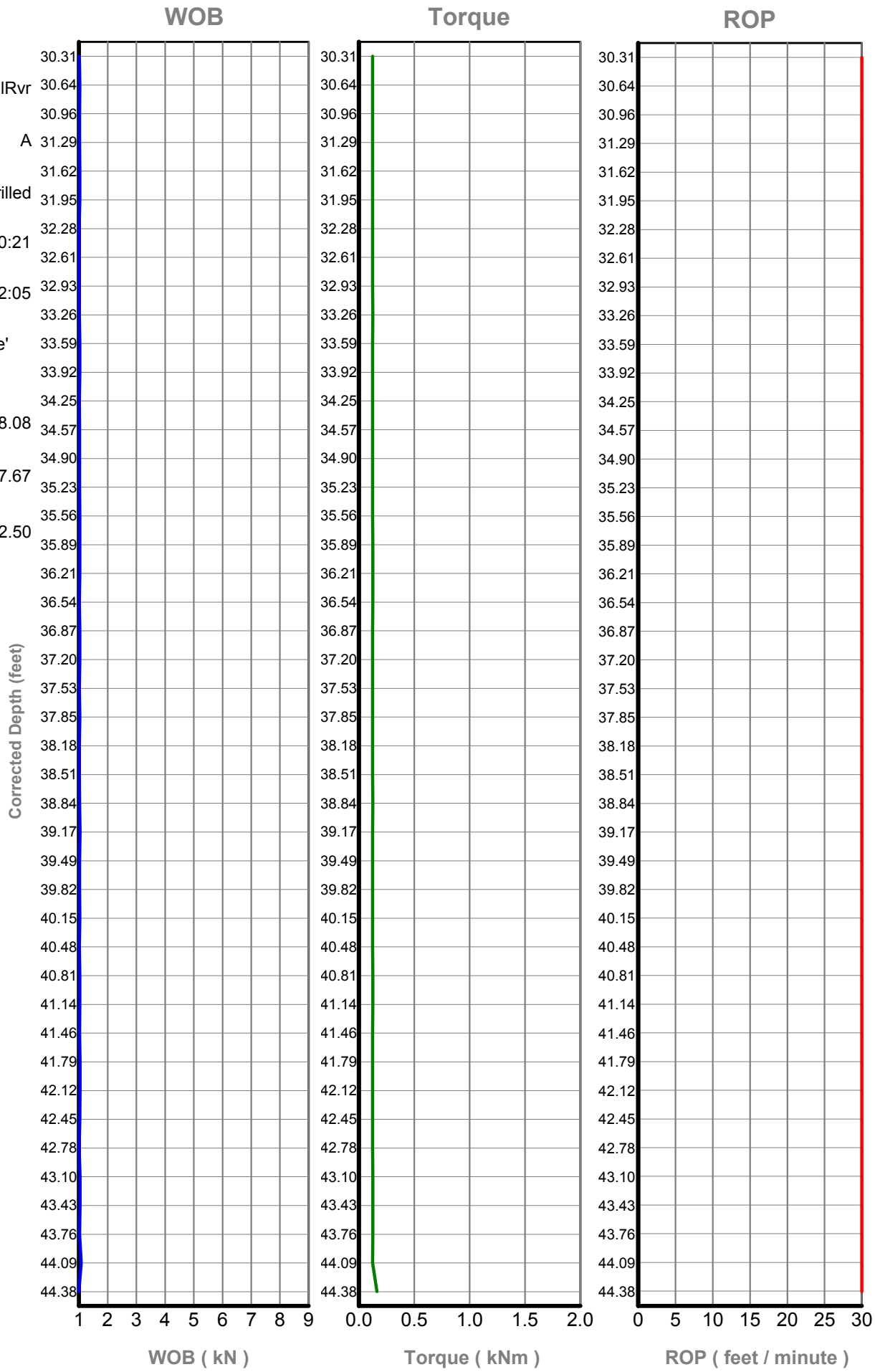
**End Date:**
4/29/2015 14:32:05

**Operator Note:**
'2.5 3.8 a Auto Complete'

**Northing:**
361,408.08

**Easting:**
244,777.67

**Tide (feet):**
2.50



## Hole: K181 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:20:29 | 32.81 | 30.21 | 1,012 | 1.07 | 0.12 | 55.3 |
| 4/29/2015 14:20:30 | 33.14 | 30.54 | 1,012 | 1.07 | 0.12 | 55.3 |
| 4/29/2015 14:20:30 | 33.46 | 30.86 | 1,012 | 1.07 | 0.12 | 55.3 |
| 4/29/2015 14:20:30 | 33.79 | 31.19 | 1,012 | 1.06 | 0.12 | 55.4 |
| 4/29/2015 14:20:31 | 34.12 | 31.52 | 1,012 | 1.05 | 0.12 | 55.4 |
| 4/29/2015 14:20:31 | 34.45 | 31.85 | 1,012 | 1.05 | 0.12 | 55.4 |
| 4/29/2015 14:20:31 | 34.78 | 32.18 | 1,015 | 1.07 | 0.12 | 55.5 |
| 4/29/2015 14:20:32 | 35.11 | 32.51 | 1,012 | 1.06 | 0.12 | 55.4 |
| 4/29/2015 14:20:32 | 35.43 | 32.83 | 1,012 | 1.06 | 0.12 | 55.4 |
| 4/29/2015 14:20:32 | 35.76 | 33.16 | 1,027 | 1.05 | 0.12 | 56.1 |
| 4/29/2015 14:20:33 | 36.09 | 33.49 | 1,006 | 1.05 | 0.12 | 55.0 |
| 4/29/2015 14:20:33 | 36.42 | 33.82 | 1,001 | 1.05 | 0.12 | 54.7 |
| 4/29/2015 14:20:34 | 36.75 | 34.15 | 1,001 | 1.05 | 0.12 | 54.7 |
| 4/29/2015 14:20:34 | 37.07 | 34.47 | 1,001 | 1.07 | 0.12 | 54.7 |
| 4/29/2015 14:20:34 | 37.40 | 34.80 | 1,004 | 1.06 | 0.12 | 54.9 |
| 4/29/2015 14:20:35 | 37.73 | 35.13 | 1,004 | 1.06 | 0.12 | 54.9 |
| 4/29/2015 14:20:35 | 38.06 | 35.46 | 1,004 | 1.05 | 0.12 | 54.9 |
| 4/29/2015 14:20:35 | 38.39 | 35.79 | 1,010 | 1.07 | 0.12 | 55.2 |
| 4/29/2015 14:20:36 | 38.71 | 36.11 | 1,010 | 1.07 | 0.12 | 55.2 |
| 4/29/2015 14:20:36 | 39.04 | 36.44 | 1,018 | 1.06 | 0.12 | 55.7 |
| 4/29/2015 14:20:36 | 39.37 | 36.77 | 1,027 | 1.07 | 0.13 | 56.2 |
| 4/29/2015 14:20:37 | 39.70 | 37.10 | 1,027 | 1.07 | 0.13 | 56.2 |
| 4/29/2015 14:20:37 | 40.03 | 37.43 | 1,015 | 1.07 | 0.12 | 55.5 |
| 4/29/2015 14:20:38 | 40.35 | 37.75 | 1,018 | 1.05 | 0.04 | 55.6 |
| 4/29/2015 14:20:38 | 40.68 | 38.08 | 1,018 | 1.05 | 0.04 | 55.6 |
| 4/29/2015 14:20:38 | 41.01 | 38.41 | 1,009 | 1.06 | 0.12 | 55.2 |
| 4/29/2015 14:20:39 | 41.34 | 38.74 | 1,009 | 1.07 | 0.12 | 55.2 |
| 4/29/2015 14:20:39 | 41.67 | 39.07 | 1,009 | 1.07 | 0.12 | 55.2 |
| 4/29/2015 14:20:39 | 41.99 | 39.39 | 1,000 | 1.07 | 0.12 | 54.7 |
| 4/29/2015 14:20:40 | 42.32 | 39.72 | 1,000 | 1.07 | 0.12 | 54.7 |
| 4/29/2015 14:20:40 | 42.65 | 40.05 | 1,000 | 1.07 | 0.12 | 54.7 |
| 4/29/2015 14:20:40 | 42.98 | 40.38 | 1,000 | 1.07 | 0.12 | 54.7 |
| 4/29/2015 14:20:41 | 43.31 | 40.71 | 994 | 1.09 | 0.12 | 54.4 |
| 4/29/2015 14:20:41 | 43.64 | 41.04 | 989 | 1.09 | 0.12 | 54.1 |
| 4/29/2015 14:20:42 | 43.96 | 41.36 | 989 | 1.09 | 0.12 | 54.1 |
| 4/29/2015 14:20:42 | 44.29 | 41.69 | 986 | 1.08 | 0.12 | 53.9 |
| 4/29/2015 14:20:42 | 44.62 | 42.02 | 983 | 1.08 | 0.12 | 53.8 |
| 4/29/2015 14:20:43 | 44.95 | 42.35 | 983 | 1.08 | 0.12 | 53.8 |
| 4/29/2015 14:20:43 | 45.28 | 42.68 | 971 | 1.07 | 0.12 | 53.1 |
| 4/29/2015 14:20:43 | 45.60 | 43.00 | 962 | 1.09 | 0.12 | 52.6 |
| 4/29/2015 14:20:44 | 45.93 | 43.33 | 962 | 1.09 | 0.12 | 52.6 |
| 4/29/2015 14:20:44 | 46.26 | 43.66 | 968 | 1.14 | 0.13 | 53.0 |
| 4/29/2015 14:20:55 | 46.59 | 43.99 | 9 | 1.89 | 1.14 | 0.5 |
| 4/29/2015 14:20:57 | 46.92 | 44.32 | 181 | 1.11 | 0.72 | 9.9 |
| 4/29/2015 14:20:59 | 47.24 | 44.64 | 179 | 1.09 | 0.91 | 9.8 |
| 4/29/2015 14:21:04 | 47.57 | 44.97 | 44 | 1.23 | 1.18 | 2.4 |
| 4/29/2015 14:21:05 | 47.90 | 45.30 | 121 | 0.96 | 1.28 | 6.6 |
| 4/29/2015 14:21:07 | 48.23 | 45.63 | 180 | 0.91 | 1.17 | 9.8 |
| 4/29/2015 14:21:09 | 48.56 | 45.96 | 197 | 1.81 | 1.52 | 10.8 |
| 4/29/2015 14:21:16 | 48.88 | 46.28 | 35 | 0.98 | 1.26 | 1.9 |
| 4/29/2015 14:21:19 | 49.21 | 46.61 | 113 | 1.04 | 1.17 | 6.2 |
| 4/29/2015 14:21:27 | 49.54 | 46.94 | 23 | 1.45 | 0.68 | 1.3 |
| 4/29/2015 14:21:35 | 49.87 | 47.27 | 47 | 1.84 | 1.11 | 2.6 |
| 4/29/2015 14:21:43 | 50.20 | 47.60 | 47 | 1.93 | 1.23 | 2.6 |
| 4/29/2015 14:21:52 | 50.53 | 47.93 | 41 | 1.92 | 1.06 | 2.2 |
| 4/29/2015 14:21:59 | 50.85 | 48.25 | 53 | 1.81 | 1.25 | 2.9 |
| 4/29/2015 14:22:06 | 51.18 | 48.58 | 40 | 1.88 | 1.01 | 2.2 |
| 4/29/2015 14:22:08 | 51.23 | 48.63 | 40 | 1.95 | 0.93 | 2.2 |

## K181 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 14:19:15

**End Date:**
4/29/2015 14:24:00

**Operator Note:**
'2.6 3.0 a Auto Complete'

**Northing:**
361,470.14

**Easting:**
244,829.75

**Tide (feet):**
2.60



## Hole: K182 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 14:00:21 | 33.14 | 30.24 | 968 | 1.06 | 0.13 | 53.0 |
| 4/29/2015 14:00:21 | 33.46 | 30.56 | 968 | 1.06 | 0.13 | 53.0 |
| 4/29/2015 14:00:21 | 33.79 | 30.89 | 974 | 1.07 | 0.13 | 53.3 |
| 4/29/2015 14:00:22 | 34.12 | 31.22 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:22 | 34.45 | 31.55 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:22 | 34.78 | 31.88 | 968 | 1.06 | 0.13 | 53.0 |
| 4/29/2015 14:00:23 | 35.11 | 32.21 | 955 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 14:00:23 | 35.43 | 32.53 | 967 | 1.08 | 0.13 | 52.9 |
| 4/29/2015 14:00:24 | 35.76 | 32.86 | 967 | 1.08 | 0.13 | 52.9 |
| 4/29/2015 14:00:24 | 36.09 | 33.19 | 967 | 1.07 | 0.13 | 52.9 |
| 4/29/2015 14:00:24 | 36.42 | 33.52 | 964 | 0.83 | 0.13 | 52.7 |
| 4/29/2015 14:00:25 | 36.75 | 33.85 | 964 | 0.83 | 0.13 | 52.7 |
| 4/29/2015 14:00:25 | 37.07 | 34.17 | 959 | 1.07 | 0.13 | 52.4 |
| 4/29/2015 14:00:25 | 37.40 | 34.50 | 980 | 1.07 | 0.13 | 53.6 |
| 4/29/2015 14:00:26 | 37.73 | 34.83 | 966 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:26 | 38.06 | 35.16 | 966 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:26 | 38.39 | 35.49 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 14:00:27 | 38.71 | 35.81 | 968 | 1.06 | 0.13 | 53.0 |
| 4/29/2015 14:00:27 | 39.04 | 36.14 | 968 | 1.06 | 0.13 | 53.0 |
| 4/29/2015 14:00:27 | 39.37 | 36.47 | 968 | 1.02 | 0.13 | 53.0 |
| 4/29/2015 14:00:28 | 39.70 | 36.80 | 960 | 1.07 | 0.14 | 52.5 |
| 4/29/2015 14:00:28 | 40.03 | 37.13 | 960 | 1.07 | 0.14 | 52.5 |
| 4/29/2015 14:00:28 | 40.35 | 37.45 | 968 | 1.07 | 0.13 | 53.0 |
| 4/29/2015 14:00:29 | 40.68 | 37.78 | 963 | 1.07 | 0.13 | 52.6 |
| 4/29/2015 14:00:30 | 41.01 | 38.11 | 963 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 14:00:30 | 41.34 | 38.44 | 963 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 14:00:30 | 41.67 | 38.77 | 960 | 1.06 | 0.13 | 52.5 |
| 4/29/2015 14:00:31 | 41.99 | 39.09 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:31 | 42.32 | 39.42 | 965 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 14:00:31 | 42.65 | 39.75 | 942 | 1.06 | 0.13 | 51.5 |
| 4/29/2015 14:00:32 | 42.98 | 40.08 | 942 | 1.06 | 0.13 | 51.5 |
| 4/29/2015 14:00:32 | 43.31 | 40.41 | 949 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 14:00:33 | 43.64 | 40.74 | 949 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 14:00:33 | 43.96 | 41.06 | 949 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 14:00:33 | 44.29 | 41.39 | 949 | 1.08 | 0.13 | 51.9 |
| 4/29/2015 14:00:34 | 44.62 | 41.72 | 949 | 1.08 | 0.13 | 51.9 |
| 4/29/2015 14:00:34 | 44.95 | 42.05 | 957 | 1.08 | 0.13 | 52.4 |
| 4/29/2015 14:00:34 | 45.28 | 42.38 | 949 | 1.04 | 0.13 | 51.9 |
| 4/29/2015 14:00:35 | 45.60 | 42.70 | 970 | 1.08 | 0.13 | 53.0 |
| 4/29/2015 14:00:35 | 45.93 | 43.03 | 970 | 1.08 | 0.13 | 53.0 |
| 4/29/2015 14:00:35 | 46.26 | 43.36 | 963 | 1.07 | 0.13 | 52.6 |
| 4/29/2015 14:00:36 | 46.59 | 43.69 | 957 | 1.07 | 0.13 | 52.3 |
| 4/29/2015 14:00:36 | 46.92 | 44.02 | 954 | 1.25 | 0.13 | 52.2 |
| 4/29/2015 14:00:44 | 47.24 | 44.34 | 6 | 1.08 | 1.66 | 0.3 |
| 4/29/2015 14:00:50 | 47.57 | 44.67 | 20 | 1.06 | 0.86 | 1.1 |
| 4/29/2015 14:00:53 | 47.90 | 45.00 | 164 | 1.05 | 1.17 | 9.0 |
| 4/29/2015 14:00:55 | 48.23 | 45.33 | 146 | 1.91 | 1.38 | 8.0 |
| 4/29/2015 14:00:57 | 48.56 | 45.66 | 126 | 1.08 | 0.94 | 6.9 |
| 4/29/2015 14:00:58 | 48.88 | 45.98 | 229 | 1.12 | 1.49 | 12.5 |
| 4/29/2015 14:01:01 | 49.21 | 46.31 | 187 | 1.02 | 1.80 | 10.2 |
| 4/29/2015 14:01:04 | 49.54 | 46.64 | 116 | 1.07 | 1.94 | 6.4 |
| 4/29/2015 14:01:07 | 49.87 | 46.97 | 136 | 0.48 | 1.72 | 7.4 |
| 4/29/2015 14:01:09 | 50.20 | 47.30 | 185 | 0.52 | 1.02 | 10.1 |
| 4/29/2015 14:01:10 | 50.53 | 47.63 | 252 | 1.02 | 1.47 | 13.8 |
| 4/29/2015 14:01:13 | 50.85 | 47.95 | 189 | 1.02 | 1.62 | 10.3 |
| 4/29/2015 14:01:15 | 51.18 | 48.28 | 159 | 1.12 | 1.36 | 8.7 |
| 4/29/2015 14:01:23 | 51.51 | 48.61 | 0 | 1.05 | 1.09 | 0.0 |
| 4/29/2015 14:01:24 | 51.84 | 48.94 | 139 | 0.41 | 1.02 | 7.6 |
| 4/29/2015 14:01:26 | 52.17 | 49.27 | 252 | 1.05 | 1.44 | 13.8 |
| 4/29/2015 14:01:27 | 52.49 | 49.59 | 221 | 1.06 | 1.28 | 12.1 |
| 4/29/2015 14:01:29 | 52.82 | 49.92 | 218 | 1.08 | 1.29 | 11.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 14:01:32 | 53.15 | 50.25 | 129 | 1.02 | 1.20 | 7.0 |
| 4/29/2015 | 14:01:33 | 53.48 | 50.58 | 178 | 1.09 | 1.05 | 9.7 |
| 4/29/2015 | 14:01:35 | 53.81 | 50.91 | 255 | 1.01 | 1.16 | 13.9 |
| 4/29/2015 | 14:01:38 | 54.13 | 51.23 | 115 | 1.09 | 1.20 | 6.3 |
| 4/29/2015 | 14:01:43 | 54.46 | 51.56 | 75 | 1.02 | 1.12 | 4.1 |
| 4/29/2015 | 14:01:48 | 54.79 | 51.89 | 66 | 1.00 | 1.20 | 3.6 |
| 4/29/2015 | 14:01:52 | 55.12 | 52.22 | 89 | 1.10 | 1.22 | 4.9 |
| 4/29/2015 | 14:01:57 | 55.45 | 52.55 | 63 | 1.05 | 1.17 | 3.5 |
| 4/29/2015 | 14:02:03 | 55.77 | 52.87 | 61 | 0.99 | 1.05 | 3.3 |
| 4/29/2015 | 14:02:09 | 56.10 | 53.20 | 61 | 0.98 | 1.27 | 3.3 |
| 4/29/2015 | 14:02:15 | 56.42 | 53.52 | 61 | 0.56 | 1.36 | 3.4 |

## K182 - Summary

**Pattern Number:**
AreaK_Lane12-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:58:51

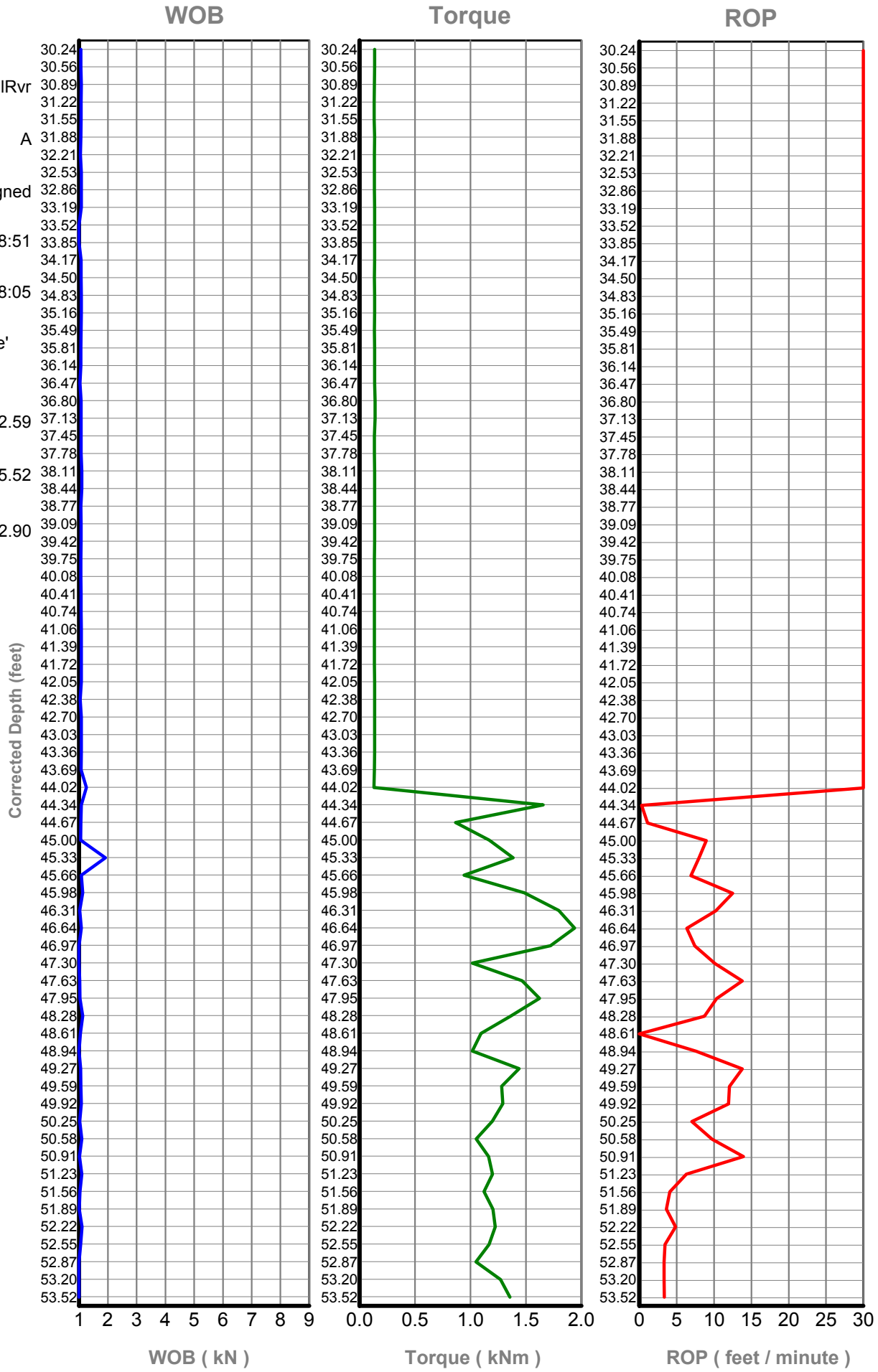
**End Date:**
4/29/2015 14:08:05

**Operator Note:**
'2.9 3.3 a Auto Complete'

**Northing:**
361,522.59

**Easting:**
244,875.52

**Tide (feet):**
2.90



## Hole: K183 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:20:20 | 35.76 | 30.16 | 1,145 | 1.52 | 0.26 | 62.6 |
| 4/29/2015 11:20:21 | 36.09 | 30.49 | 1,151 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:20:21 | 36.42 | 30.82 | 1,151 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:20:21 | 36.75 | 31.15 | 1,138 | 1.55 | 0.26 | 62.2 |
| 4/29/2015 11:20:22 | 37.07 | 31.47 | 1,138 | 1.55 | 0.26 | 62.2 |
| 4/29/2015 11:20:22 | 37.40 | 31.80 | 1,134 | 1.57 | 0.26 | 62.0 |
| 4/29/2015 11:20:22 | 37.73 | 32.13 | 1,118 | 1.58 | 0.27 | 61.1 |
| 4/29/2015 11:20:23 | 38.06 | 32.46 | 1,118 | 1.58 | 0.27 | 61.1 |
| 4/29/2015 11:20:23 | 38.39 | 32.79 | 1,089 | 1.57 | 0.26 | 59.6 |
| 4/29/2015 11:20:23 | 38.71 | 33.11 | 1,089 | 1.59 | 0.27 | 59.6 |
| 4/29/2015 11:20:24 | 39.04 | 33.44 | 1,089 | 1.59 | 0.27 | 59.6 |
| 4/29/2015 11:20:24 | 39.37 | 33.77 | 1,080 | 1.58 | 0.27 | 59.1 |
| 4/29/2015 11:20:24 | 39.70 | 34.10 | 1,080 | 1.58 | 0.27 | 59.1 |
| 4/29/2015 11:20:24 | 40.03 | 34.43 | 1,052 | 1.61 | 0.27 | 57.5 |
| 4/29/2015 11:20:25 | 40.35 | 34.75 | 1,052 | 1.59 | 0.27 | 57.5 |
| 4/29/2015 11:20:25 | 40.68 | 35.08 | 1,052 | 1.59 | 0.27 | 57.5 |
| 4/29/2015 11:20:25 | 41.01 | 35.41 | 1,055 | 1.58 | 0.27 | 57.7 |
| 4/29/2015 11:20:26 | 41.34 | 35.74 | 1,030 | 1.59 | 0.27 | 56.3 |
| 4/29/2015 11:20:26 | 41.67 | 36.07 | 1,030 | 1.59 | 0.27 | 56.3 |
| 4/29/2015 11:20:26 | 41.99 | 36.39 | 1,030 | 1.61 | 0.27 | 56.3 |
| 4/29/2015 11:20:27 | 42.32 | 36.72 | 1,048 | 1.59 | 0.27 | 57.3 |
| 4/29/2015 11:20:28 | 42.65 | 37.05 | 1,048 | 1.59 | 0.27 | 57.3 |
| 4/29/2015 11:20:28 | 42.98 | 37.38 | 1,036 | 1.60 | 0.27 | 56.7 |
| 4/29/2015 11:20:28 | 43.31 | 37.71 | 1,057 | 1.59 | 0.27 | 57.8 |
| 4/29/2015 11:20:29 | 43.64 | 38.04 | 1,057 | 1.59 | 0.27 | 57.8 |
| 4/29/2015 11:20:29 | 43.96 | 38.36 | 1,047 | 1.61 | 0.27 | 57.3 |
| 4/29/2015 11:20:29 | 44.29 | 38.69 | 1,056 | 1.60 | 0.27 | 57.7 |
| 4/29/2015 11:20:30 | 44.62 | 39.02 | 1,056 | 1.60 | 0.27 | 57.7 |
| 4/29/2015 11:20:30 | 44.95 | 39.35 | 1,049 | 1.61 | 0.27 | 57.4 |
| 4/29/2015 11:20:30 | 45.28 | 39.68 | 1,053 | 1.60 | 0.27 | 57.6 |
| 4/29/2015 11:20:31 | 45.60 | 40.00 | 1,053 | 1.60 | 0.27 | 57.6 |
| 4/29/2015 11:20:31 | 45.93 | 40.33 | 1,046 | 1.59 | 0.27 | 57.2 |
| 4/29/2015 11:20:31 | 46.26 | 40.66 | 1,040 | 1.53 | 0.26 | 56.9 |
| 4/29/2015 11:20:32 | 46.59 | 40.99 | 1,040 | 1.53 | 0.26 | 56.9 |
| 4/29/2015 11:20:32 | 46.92 | 41.32 | 1,064 | 1.55 | 0.27 | 58.2 |
| 4/29/2015 11:20:32 | 47.24 | 41.64 | 1,064 | 1.55 | 0.27 | 58.2 |
| 4/29/2015 11:20:32 | 47.57 | 41.97 | 1,073 | 1.53 | 0.27 | 58.7 |
| 4/29/2015 11:20:33 | 47.90 | 42.30 | 1,085 | 1.57 | 0.27 | 59.3 |
| 4/29/2015 11:20:33 | 48.23 | 42.63 | 1,085 | 1.57 | 0.27 | 59.3 |
| 4/29/2015 11:20:33 | 48.56 | 42.96 | 1,102 | 1.55 | 0.27 | 60.2 |
| 4/29/2015 11:20:34 | 48.88 | 43.28 | 1,102 | 1.55 | 0.27 | 60.2 |
| 4/29/2015 11:20:41 | 49.21 | 43.61 | 56 | 1.64 | 1.22 | 3.1 |
| 4/29/2015 11:20:42 | 49.54 | 43.94 | 187 | 1.64 | 1.01 | 10.2 |
| 4/29/2015 11:20:43 | 49.87 | 44.27 | 298 | 1.65 | 1.10 | 16.3 |
| 4/29/2015 11:20:43 | 50.20 | 44.60 | 419 | 1.62 | 1.15 | 22.9 |
| 4/29/2015 11:20:44 | 50.53 | 44.93 | 471 | 1.67 | 1.13 | 25.8 |
| 4/29/2015 11:20:44 | 50.85 | 45.25 | 540 | 1.66 | 1.15 | 29.5 |
| 4/29/2015 11:21:05 | 51.18 | 45.58 | 0 | 1.66 | 1.11 | 0.0 |
| 4/29/2015 11:21:07 | 51.51 | 45.91 | 91 | 1.61 | 1.29 | 5.0 |
| 4/29/2015 11:21:08 | 51.84 | 46.24 | 217 | 1.66 | 1.26 | 11.9 |
| 4/29/2015 11:21:44 | 52.17 | 46.57 | 37 | 1.66 | 1.13 | 2.0 |
| 4/29/2015 11:21:45 | 52.49 | 46.89 | 129 | 1.65 | 0.90 | 7.0 |
| 4/29/2015 11:21:46 | 52.82 | 47.22 | 349 | 1.65 | 1.11 | 19.1 |
| 4/29/2015 11:21:46 | 53.15 | 47.55 | 458 | 1.68 | 1.07 | 25.1 |
| 4/29/2015 11:22:27 | 53.48 | 47.88 | 83 | 1.63 | 0.84 | 4.5 |
| 4/29/2015 11:22:27 | 53.81 | 48.21 | 221 | 1.66 | 0.81 | 12.1 |
| 4/29/2015 11:22:28 | 54.13 | 48.53 | 350 | 1.65 | 0.84 | 19.1 |
| 4/29/2015 11:22:28 | 54.46 | 48.86 | 462 | 1.66 | 0.90 | 25.2 |
| 4/29/2015 11:22:29 | 54.79 | 49.19 | 562 | 1.68 | 0.86 | 30.7 |
| 4/29/2015 11:23:19 | 55.12 | 49.52 | 0 | 1.64 | 1.11 | 0.0 |
| 4/29/2015 11:23:20 | 55.45 | 49.85 | 89 | 1.66 | 1.09 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:23:20 | 55.77 | 50.17 | 194 | 1.65 | 1.00 | 10.6 |
| 4/29/2015 | 11:23:21 | 56.10 | 50.50 | 306 | 1.66 | 0.88 | 16.7 |
| 4/29/2015 | 11:23:21 | 56.43 | 50.83 | 423 | 1.71 | 0.88 | 23.1 |
| 4/29/2015 | 11:23:22 | 56.76 | 51.16 | 558 | 1.63 | 0.88 | 30.5 |
| 4/29/2015 | 11:23:22 | 57.09 | 51.49 | 606 | 1.64 | 0.93 | 33.1 |
| 4/29/2015 | 11:23:24 | 57.41 | 51.81 | 540 | 1.68 | 1.19 | 29.5 |
| 4/29/2015 | 11:25:02 | 57.74 | 52.14 | 52 | 1.68 | 1.20 | 2.9 |
| 4/29/2015 | 11:25:10 | 58.07 | 52.47 | 46 | 1.67 | 1.24 | 2.5 |
| 4/29/2015 | 11:25:17 | 58.40 | 52.80 | 49 | 1.66 | 1.15 | 2.7 |
| 4/29/2015 | 11:25:25 | 58.73 | 53.13 | 44 | 1.68 | 1.18 | 2.4 |
| 4/29/2015 | 11:25:27 | 58.85 | 53.25 | 43 | 1.68 | 1.20 | 2.4 |

## K183 - Summary

**Pattern Number:**
AreaK_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 11:19:13

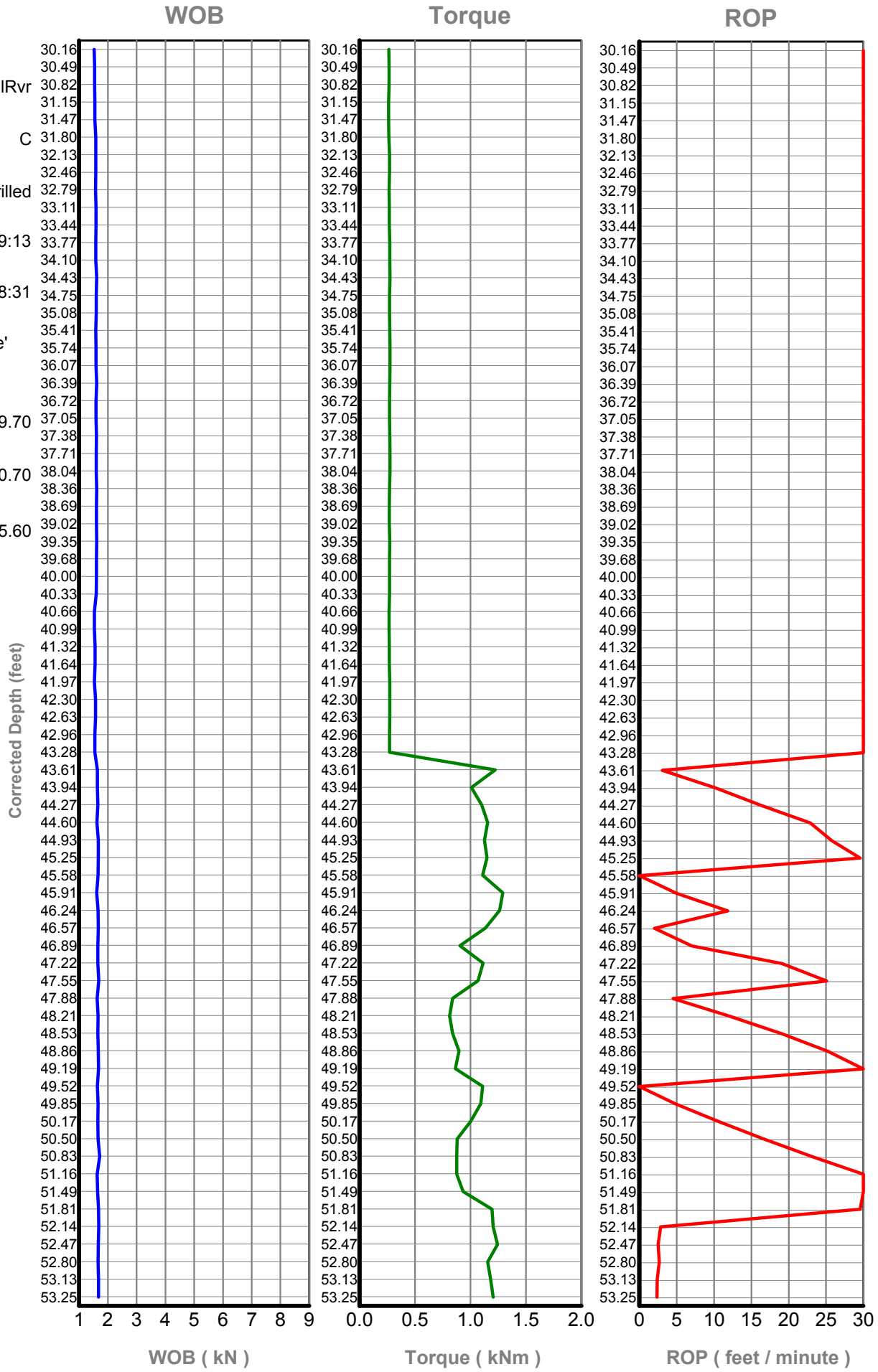
**End Date:**
4/29/2015 11:28:31

**Operator Note:**
'5.6 5.8 c Auto Complete'

**Northing:**
361,769.70

**Easting:**
245,190.70

**Tide (feet):**
5.60



## Hole: K184 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:39:37 | 35.76 | 30.26 | 1,165 | 1.54 | 0.25 | 63.7 |
| 4/29/2015 11:39:37 | 36.09 | 30.59 | 1,158 | 1.51 | 0.26 | 63.3 |
| 4/29/2015 11:39:38 | 36.42 | 30.92 | 1,158 | 1.51 | 0.26 | 63.3 |
| 4/29/2015 11:39:38 | 36.75 | 31.25 | 1,154 | 1.54 | 0.26 | 63.1 |
| 4/29/2015 11:39:38 | 37.07 | 31.57 | 1,154 | 1.54 | 0.26 | 63.1 |
| 4/29/2015 11:39:38 | 37.40 | 31.90 | 1,154 | 1.54 | 0.26 | 63.1 |
| 4/29/2015 11:39:39 | 37.73 | 32.23 | 1,172 | 1.53 | 0.25 | 64.1 |
| 4/29/2015 11:39:39 | 38.06 | 32.56 | 1,172 | 1.53 | 0.25 | 64.1 |
| 4/29/2015 11:39:39 | 38.39 | 32.89 | 1,159 | 1.54 | 0.25 | 63.4 |
| 4/29/2015 11:39:40 | 38.71 | 33.21 | 1,151 | 1.52 | 0.25 | 62.9 |
| 4/29/2015 11:39:40 | 39.04 | 33.54 | 1,151 | 1.52 | 0.25 | 62.9 |
| 4/29/2015 11:39:40 | 39.37 | 33.87 | 1,154 | 1.55 | 0.26 | 63.1 |
| 4/29/2015 11:39:41 | 39.70 | 34.20 | 1,154 | 1.55 | 0.26 | 63.1 |
| 4/29/2015 11:39:41 | 40.03 | 34.53 | 1,158 | 1.55 | 0.26 | 63.3 |
| 4/29/2015 11:39:41 | 40.35 | 34.85 | 1,158 | 1.55 | 0.26 | 63.3 |
| 4/29/2015 11:39:41 | 40.68 | 35.18 | 1,156 | 1.51 | 0.26 | 63.2 |
| 4/29/2015 11:39:42 | 41.01 | 35.51 | 1,149 | 1.49 | 0.26 | 62.8 |
| 4/29/2015 11:39:43 | 41.34 | 35.84 | 1,149 | 1.49 | 0.26 | 62.8 |
| 4/29/2015 11:39:43 | 41.67 | 36.17 | 1,156 | 1.53 | 0.26 | 63.2 |
| 4/29/2015 11:39:43 | 41.99 | 36.49 | 1,156 | 1.53 | 0.26 | 63.2 |
| 4/29/2015 11:39:43 | 42.32 | 36.82 | 1,150 | 1.55 | 0.26 | 62.9 |
| 4/29/2015 11:39:44 | 42.65 | 37.15 | 1,153 | 1.54 | 0.26 | 63.1 |
| 4/29/2015 11:39:44 | 42.98 | 37.48 | 1,153 | 1.54 | 0.26 | 63.1 |
| 4/29/2015 11:39:44 | 43.31 | 37.81 | 1,153 | 1.53 | 0.26 | 63.1 |
| 4/29/2015 11:39:45 | 43.64 | 38.14 | 1,153 | 1.53 | 0.26 | 63.1 |
| 4/29/2015 11:39:45 | 43.96 | 38.46 | 1,147 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 11:39:45 | 44.29 | 38.79 | 1,151 | 1.53 | 0.26 | 63.0 |
| 4/29/2015 11:39:46 | 44.62 | 39.12 | 1,151 | 1.53 | 0.26 | 63.0 |
| 4/29/2015 11:39:46 | 44.95 | 39.45 | 1,150 | 1.52 | 0.26 | 62.9 |
| 4/29/2015 11:39:46 | 45.28 | 39.78 | 1,150 | 1.52 | 0.26 | 62.9 |
| 4/29/2015 11:39:46 | 45.60 | 40.10 | 1,149 | 1.50 | 0.26 | 62.8 |
| 4/29/2015 11:39:47 | 45.93 | 40.43 | 1,150 | 1.51 | 0.26 | 62.9 |
| 4/29/2015 11:39:47 | 46.26 | 40.76 | 1,150 | 1.51 | 0.26 | 62.9 |
| 4/29/2015 11:39:47 | 46.59 | 41.09 | 1,147 | 1.51 | 0.26 | 62.7 |
| 4/29/2015 11:39:48 | 46.92 | 41.42 | 1,147 | 1.51 | 0.26 | 62.7 |
| 4/29/2015 11:39:48 | 47.24 | 41.74 | 1,147 | 1.51 | 0.26 | 62.7 |
| 4/29/2015 11:39:48 | 47.57 | 42.07 | 1,158 | 1.66 | 0.26 | 63.3 |
| 4/29/2015 11:40:04 | 47.90 | 42.40 | 6 | 1.66 | 0.99 | 0.3 |
| 4/29/2015 11:40:04 | 48.23 | 42.73 | 91 | 1.60 | 0.99 | 5.0 |
| 4/29/2015 11:40:05 | 48.56 | 43.06 | 230 | 1.63 | 0.97 | 12.6 |
| 4/29/2015 11:40:05 | 48.88 | 43.38 | 376 | 1.66 | 0.97 | 20.5 |
| 4/29/2015 11:40:06 | 49.21 | 43.71 | 523 | 1.68 | 1.04 | 28.6 |
| 4/29/2015 11:40:06 | 49.54 | 44.04 | 654 | 1.64 | 0.93 | 35.8 |
| 4/29/2015 11:40:07 | 49.87 | 44.37 | 717 | 1.62 | 0.96 | 39.2 |
| 4/29/2015 11:40:07 | 50.20 | 44.70 | 728 | 1.65 | 0.92 | 39.8 |
| 4/29/2015 11:41:34 | 50.53 | 45.03 | 67 | 1.66 | 1.36 | 3.7 |
| 4/29/2015 11:41:44 | 50.85 | 45.35 | 29 | 1.69 | 1.19 | 1.6 |
| 4/29/2015 11:41:57 | 51.18 | 45.68 | 32 | 1.66 | 1.11 | 1.7 |
| 4/29/2015 11:42:06 | 51.51 | 46.01 | 33 | 1.64 | 1.11 | 1.8 |
| 4/29/2015 11:42:15 | 51.84 | 46.34 | 41 | 1.66 | 1.17 | 2.2 |
| 4/29/2015 11:42:20 | 51.98 | 46.48 | 32 | 1.67 | 1.15 | 1.8 |

## K184 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 11:37:59

**End Date:**
4/29/2015 11:43:53

**Operator Note:**
'5.5 5.7 c Auto Complete'

**Northing:**
361,830.73

**Easting:**
245,240.71

**Tide (feet):**
5.50



## Hole: K185 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:11:17 | 31.50 | 30.20 | 1,115 | 1.68 | 0.24 | 61.0 |
| 4/30/2015 4:11:17 | 31.82 | 30.52 | 1,147 | 1.68 | 0.24 | 62.7 |
| 4/30/2015 4:11:18 | 32.15 | 30.85 | 1,147 | 1.68 | 0.24 | 62.7 |
| 4/30/2015 4:11:18 | 32.48 | 31.18 | 1,138 | 1.40 | 0.26 | 62.3 |
| 4/30/2015 4:11:18 | 32.81 | 31.51 | 1,087 | 1.42 | 0.26 | 59.5 |
| 4/30/2015 4:11:19 | 33.14 | 31.84 | 1,036 | 1.42 | 0.26 | 56.6 |
| 4/30/2015 4:11:19 | 33.46 | 32.16 | 1,036 | 1.42 | 0.26 | 56.6 |
| 4/30/2015 4:11:19 | 33.79 | 32.49 | 1,008 | 1.41 | 0.26 | 55.1 |
| 4/30/2015 4:11:20 | 34.12 | 32.82 | 925 | 1.43 | 0.26 | 50.6 |
| 4/30/2015 4:11:20 | 34.45 | 33.15 | 925 | 1.73 | 0.25 | 50.6 |
| 4/30/2015 4:11:21 | 34.78 | 33.48 | 925 | 1.73 | 0.25 | 50.6 |
| 4/30/2015 4:11:21 | 35.11 | 33.81 | 874 | 1.38 | 0.26 | 47.8 |
| 4/30/2015 4:11:22 | 35.43 | 34.13 | 874 | 0.59 | 0.22 | 47.8 |
| 4/30/2015 4:11:26 | 35.76 | 34.46 | 0 | 1.09 | 0.21 | 0.0 |
| 4/30/2015 4:11:26 | 36.09 | 34.79 | 121 | 1.11 | 0.20 | 6.6 |
| 4/30/2015 4:11:27 | 36.42 | 35.12 | 121 | 1.11 | 0.20 | 6.6 |
| 4/30/2015 4:11:27 | 36.75 | 35.45 | 273 | 1.11 | 0.20 | 15.0 |
| 4/30/2015 4:11:28 | 37.07 | 35.77 | 419 | 1.11 | 0.20 | 22.9 |
| 4/30/2015 4:11:28 | 37.40 | 36.10 | 569 | 1.13 | 0.20 | 31.1 |
| 4/30/2015 4:11:29 | 37.73 | 36.43 | 698 | 1.09 | 0.20 | 38.2 |
| 4/30/2015 4:11:29 | 38.06 | 36.76 | 698 | 1.11 | 0.20 | 38.2 |
| 4/30/2015 4:11:30 | 38.39 | 37.09 | 730 | 1.10 | 0.20 | 39.9 |
| 4/30/2015 4:11:30 | 38.71 | 37.41 | 723 | 1.09 | 0.20 | 39.6 |
| 4/30/2015 4:11:31 | 39.04 | 37.74 | 725 | 1.12 | 0.20 | 39.6 |
| 4/30/2015 4:11:31 | 39.37 | 38.07 | 715 | 1.09 | 0.20 | 39.1 |
| 4/30/2015 4:11:32 | 39.70 | 38.40 | 736 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 4:11:33 | 40.03 | 38.73 | 726 | 1.09 | 0.20 | 39.7 |
| 4/30/2015 4:11:33 | 40.35 | 39.05 | 711 | 1.09 | 0.20 | 38.9 |
| 4/30/2015 4:11:34 | 40.68 | 39.38 | 711 | 1.10 | 0.20 | 38.9 |
| 4/30/2015 4:11:34 | 41.01 | 39.71 | 707 | 1.09 | 0.19 | 38.7 |
| 4/30/2015 4:11:35 | 41.34 | 40.04 | 707 | 1.10 | 0.20 | 38.7 |
| 4/30/2015 4:11:35 | 41.67 | 40.37 | 707 | 1.09 | 0.20 | 38.7 |
| 4/30/2015 4:11:36 | 41.99 | 40.69 | 707 | 1.09 | 0.20 | 38.7 |
| 4/30/2015 4:11:36 | 42.32 | 41.02 | 706 | 1.11 | 0.20 | 38.6 |
| 4/30/2015 4:11:36 | 42.65 | 41.35 | 706 | 1.09 | 0.20 | 38.6 |
| 4/30/2015 4:11:37 | 42.98 | 41.68 | 703 | 1.09 | 0.20 | 38.4 |
| 4/30/2015 4:11:37 | 43.31 | 42.01 | 703 | 1.10 | 0.20 | 38.4 |
| 4/30/2015 4:11:38 | 43.64 | 42.34 | 721 | 1.09 | 0.20 | 39.4 |
| 4/30/2015 4:11:38 | 43.96 | 42.66 | 713 | 1.09 | 0.20 | 39.0 |
| 4/30/2015 4:11:39 | 44.29 | 42.99 | 713 | 1.10 | 0.20 | 39.0 |
| 4/30/2015 4:11:39 | 44.62 | 43.32 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 4:11:47 | 44.95 | 43.65 | 2 | 1.13 | 1.30 | 0.1 |
| 4/30/2015 4:11:48 | 45.28 | 43.98 | 74 | 1.81 | 1.21 | 4.0 |
| 4/30/2015 4:11:49 | 45.60 | 44.30 | 159 | 1.76 | 1.28 | 8.7 |
| 4/30/2015 4:11:49 | 45.93 | 44.63 | 247 | 1.69 | 1.70 | 13.5 |
| 4/30/2015 4:11:50 | 46.26 | 44.96 | 400 | 0.93 | 0.87 | 21.9 |
| 4/30/2015 4:11:58 | 46.59 | 45.29 | 38 | 1.13 | 1.33 | 2.1 |
| 4/30/2015 4:12:00 | 46.92 | 45.62 | 110 | 1.14 | 1.00 | 6.0 |
| 4/30/2015 4:12:01 | 47.24 | 45.94 | 211 | 1.21 | 1.37 | 11.6 |
| 4/30/2015 4:12:04 | 47.57 | 46.27 | 211 | 1.09 | 1.38 | 11.6 |
| 4/30/2015 4:12:20 | 47.90 | 46.60 | 0 | 1.02 | 1.32 | 0.0 |
| 4/30/2015 4:12:22 | 48.23 | 46.93 | 90 | 1.11 | 1.06 | 4.9 |
| 4/30/2015 4:12:23 | 48.56 | 47.26 | 209 | 1.11 | 0.96 | 11.4 |
| 4/30/2015 4:12:25 | 48.88 | 47.58 | 243 | 1.06 | 1.30 | 13.3 |
| 4/30/2015 4:12:27 | 49.21 | 47.91 | 146 | 1.08 | 1.68 | 8.0 |
| 4/30/2015 4:12:29 | 49.54 | 48.24 | 142 | 1.07 | 1.49 | 7.8 |
| 4/30/2015 4:12:31 | 49.87 | 48.57 | 209 | 1.04 | 1.54 | 11.4 |
| 4/30/2015 4:12:32 | 50.20 | 48.90 | 194 | 1.14 | 1.38 | 10.6 |
| 4/30/2015 4:14:11 | 50.53 | 49.23 | 34 | 1.15 | 1.01 | 1.9 |
| 4/30/2015 4:14:12 | 50.85 | 49.55 | 209 | 1.26 | 0.82 | 11.4 |
| 4/30/2015 4:14:18 | 51.18 | 49.88 | 35 | 1.81 | 0.76 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:14:18 | 51.51 | 50.21 | 35 | 1.81 | 0.76 | 1.9 |
| 4/30/2015 | 4:14:19 | 51.84 | 50.54 | 238 | 1.94 | 0.67 | 13.0 |
| 4/30/2015 | 4:14:19 | 52.17 | 50.87 | 438 | 2.05 | 1.08 | 24.0 |
| 4/30/2015 | 4:14:20 | 52.49 | 51.19 | 438 | 2.05 | 1.08 | 24.0 |
| 4/30/2015 | 4:14:20 | 52.82 | 51.52 | 610 | 1.19 | 0.93 | 33.3 |
| 4/30/2015 | 4:14:21 | 53.15 | 51.85 | 784 | 1.03 | 0.89 | 42.9 |
| 4/30/2015 | 4:14:22 | 53.48 | 52.18 | 566 | 1.14 | 0.90 | 31.0 |
| 4/30/2015 | 4:14:28 | 53.81 | 52.51 | 17 | 2.04 | 1.35 | 0.9 |
| 4/30/2015 | 4:14:30 | 54.13 | 52.83 | 208 | 1.08 | 1.09 | 11.4 |
| 4/30/2015 | 4:14:30 | 54.46 | 53.16 | 291 | 1.00 | 1.11 | 15.9 |
| 4/30/2015 | 4:14:31 | 54.79 | 53.49 | 419 | 1.07 | 1.17 | 22.9 |
| 4/30/2015 | 4:14:33 | 55.12 | 53.82 | 324 | 1.05 | 1.06 | 17.7 |
| 4/30/2015 | 4:14:34 | 55.45 | 54.15 | 295 | 1.09 | 0.94 | 16.1 |
| 4/30/2015 | 4:14:35 | 55.77 | 54.47 | 266 | 1.02 | 0.90 | 14.5 |
| 4/30/2015 | 4:14:37 | 56.10 | 54.80 | 229 | 1.06 | 1.21 | 12.5 |
| 4/30/2015 | 4:14:38 | 56.43 | 55.13 | 224 | 1.06 | 1.14 | 12.2 |
| 4/30/2015 | 4:14:39 | 56.62 | 55.32 | 231 | 1.21 | 1.12 | 12.6 |

## K185 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:09:25

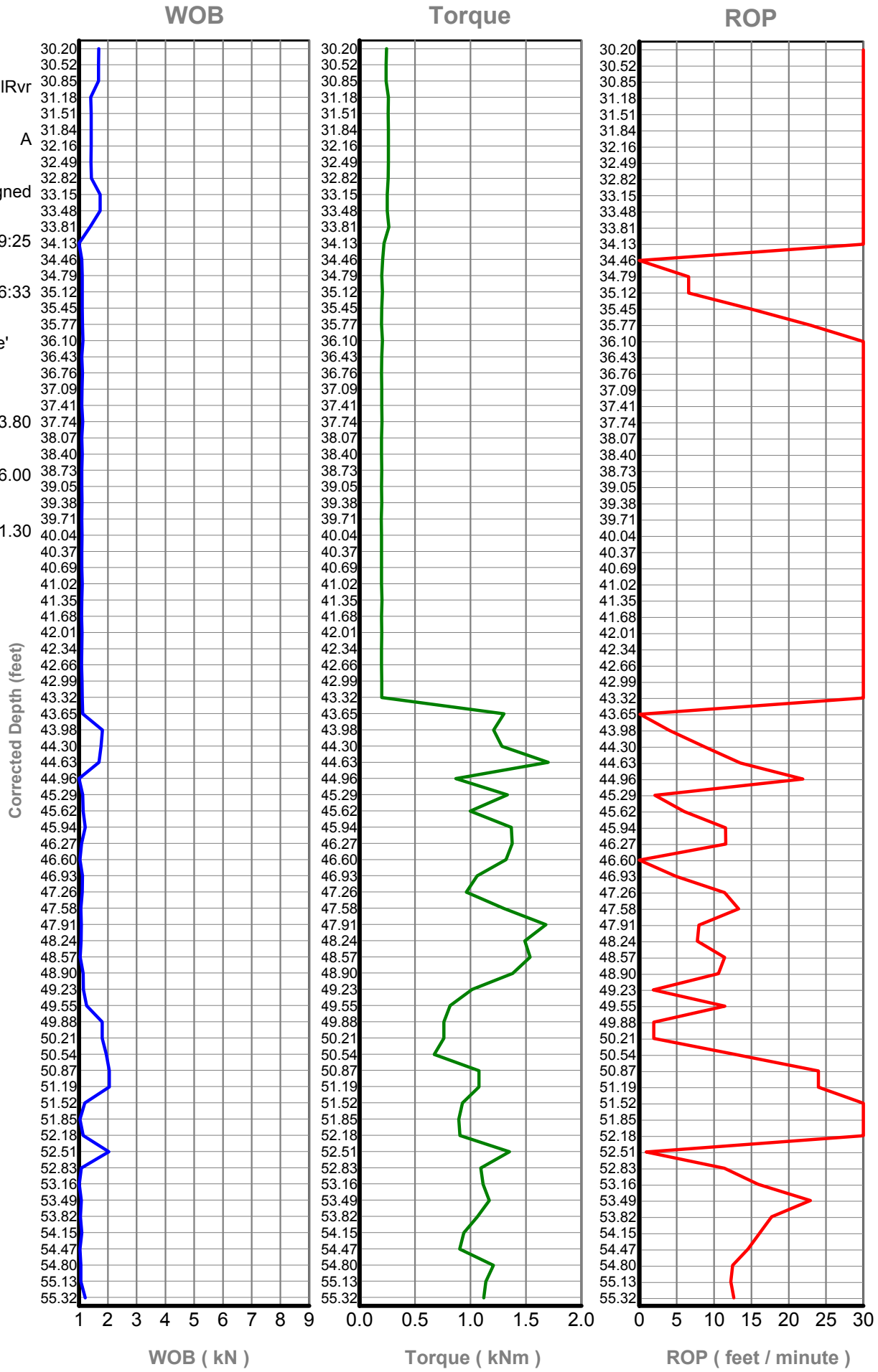
**End Date:**
4/30/2015 4:16:33

**Operator Note:**
'1.3 1.5 b Auto Complete'

**Northing:**
361,833.80

**Easting:**
245,276.00

**Tide (feet):**
1.30



## Hole: K186 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:12:12 | 31.50 | 30.20 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/30/2015 4:12:12 | 31.82 | 30.52 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/30/2015 4:12:12 | 32.15 | 30.85 | 1,058 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:13 | 32.48 | 31.18 | 1,058 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:13 | 32.81 | 31.51 | 1,058 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:13 | 33.14 | 31.84 | 1,060 | 0.33 | 0.38 | 58.0 |
| 4/30/2015 4:12:14 | 33.46 | 32.16 | 1,060 | 0.33 | 0.38 | 58.0 |
| 4/30/2015 4:12:14 | 33.79 | 32.49 | 1,056 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:14 | 34.12 | 32.82 | 1,056 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:15 | 34.45 | 33.15 | 1,056 | 0.33 | 0.39 | 57.8 |
| 4/30/2015 4:12:15 | 34.78 | 33.48 | 1,066 | 0.33 | 0.39 | 58.3 |
| 4/30/2015 4:12:16 | 35.11 | 33.81 | 1,057 | 0.33 | 0.38 | 57.8 |
| 4/30/2015 4:12:16 | 35.43 | 34.13 | 1,057 | 0.33 | 0.38 | 57.8 |
| 4/30/2015 4:12:16 | 35.76 | 34.46 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/30/2015 4:12:17 | 36.09 | 34.79 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/30/2015 4:12:17 | 36.42 | 35.12 | 1,067 | 0.33 | 0.39 | 58.3 |
| 4/30/2015 4:12:17 | 36.75 | 35.45 | 1,080 | 0.33 | 0.36 | 59.0 |
| 4/30/2015 4:12:18 | 37.07 | 35.77 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/30/2015 4:12:18 | 37.40 | 36.10 | 1,070 | 0.33 | 0.39 | 58.5 |
| 4/30/2015 4:12:18 | 37.73 | 36.43 | 1,075 | 0.34 | 0.39 | 58.8 |
| 4/30/2015 4:12:19 | 38.06 | 36.76 | 1,075 | 0.34 | 0.39 | 58.8 |
| 4/30/2015 4:12:19 | 38.39 | 37.09 | 1,073 | 0.33 | 0.39 | 58.6 |
| 4/30/2015 4:12:19 | 38.71 | 37.41 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/30/2015 4:12:20 | 39.04 | 37.74 | 1,078 | 0.33 | 0.38 | 59.0 |
| 4/30/2015 4:12:20 | 39.37 | 38.07 | 1,077 | 0.33 | 0.39 | 58.9 |
| 4/30/2015 4:12:20 | 39.70 | 38.40 | 1,087 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:12:21 | 40.03 | 38.73 | 1,087 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:12:21 | 40.35 | 39.05 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/30/2015 4:12:21 | 40.68 | 39.38 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/30/2015 4:12:21 | 41.01 | 39.71 | 1,084 | 0.34 | 0.38 | 59.3 |
| 4/30/2015 4:12:22 | 41.34 | 40.04 | 1,087 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:12:22 | 41.67 | 40.37 | 1,087 | 0.33 | 0.39 | 59.4 |
| 4/30/2015 4:12:22 | 41.99 | 40.69 | 1,094 | 0.34 | 0.38 | 59.8 |
| 4/30/2015 4:12:23 | 42.32 | 41.02 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 4:12:23 | 42.65 | 41.35 | 1,084 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 4:12:23 | 42.98 | 41.68 | 1,084 | 0.33 | 0.39 | 59.3 |
| 4/30/2015 4:12:24 | 43.31 | 42.01 | 1,077 | 0.34 | 0.38 | 58.9 |
| 4/30/2015 4:12:24 | 43.64 | 42.34 | 1,077 | 0.34 | 0.38 | 58.9 |
| 4/30/2015 4:12:24 | 43.96 | 42.66 | 1,083 | 0.33 | 0.38 | 59.2 |
| 4/30/2015 4:12:25 | 44.29 | 42.99 | 1,083 | 0.33 | 0.38 | 59.2 |
| 4/30/2015 4:12:25 | 44.62 | 43.32 | 1,080 | 0.33 | 0.38 | 59.1 |
| 4/30/2015 4:12:25 | 44.95 | 43.65 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/30/2015 4:12:26 | 45.28 | 43.98 | 1,090 | 0.33 | 0.39 | 59.6 |
| 4/30/2015 4:12:26 | 45.60 | 44.30 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/30/2015 4:12:27 | 45.93 | 44.63 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:12:27 | 46.26 | 44.96 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 4:12:27 | 46.59 | 45.29 | 1,096 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 4:12:28 | 46.92 | 45.62 | 1,096 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 4:12:28 | 47.24 | 45.94 | 1,067 | 0.31 | 0.45 | 58.4 |
| 4/30/2015 4:12:33 | 47.57 | 46.27 | 84 | 4.12 | 0.45 | 4.6 |
| 4/30/2015 4:12:36 | 47.90 | 46.60 | 134 | 4.96 | 0.45 | 7.3 |
| 4/30/2015 4:12:37 | 48.23 | 46.93 | 174 | 4.74 | 0.46 | 9.5 |
| 4/30/2015 4:12:38 | 48.56 | 47.26 | 268 | 3.12 | 0.43 | 14.6 |
| 4/30/2015 4:12:43 | 48.88 | 47.58 | 0 | 3.07 | 0.42 | 0.0 |
| 4/30/2015 4:12:45 | 49.21 | 47.91 | 157 | 5.83 | 0.45 | 8.6 |
| 4/30/2015 4:12:49 | 49.54 | 48.24 | 97 | 7.21 | 0.48 | 5.3 |
| 4/30/2015 4:12:53 | 49.87 | 48.57 | 77 | 4.30 | 0.43 | 4.2 |
| 4/30/2015 4:12:54 | 50.20 | 48.90 | 172 | 3.24 | 0.43 | 9.4 |
| 4/30/2015 4:12:54 | 50.53 | 49.23 | 280 | 3.02 | 0.43 | 15.3 |
| 4/30/2015 4:12:55 | 50.85 | 49.55 | 383 | 4.78 | 0.45 | 21.0 |
| 4/30/2015 4:12:56 | 51.18 | 49.88 | 459 | 5.12 | 0.46 | 25.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:12:57 | 51.51 | 50.21 | 416 | 2.69 | 0.43 | 22.8 |
| 4/30/2015 | 4:12:58 | 51.84 | 50.54 | 399 | 2.61 | 0.43 | 21.8 |
| 4/30/2015 | 4:13:01 | 52.17 | 50.87 | 112 | 3.12 | 0.48 | 6.1 |
| 4/30/2015 | 4:13:09 | 52.49 | 51.19 | 43 | 3.07 | 0.47 | 2.3 |
| 4/30/2015 | 4:13:17 | 52.82 | 51.52 | 45 | 3.28 | 0.47 | 2.4 |
| 4/30/2015 | 4:13:25 | 53.15 | 51.85 | 47 | 3.41 | 0.47 | 2.5 |
| 4/30/2015 | 4:13:29 | 53.32 | 52.02 | 40 | 3.41 | 0.48 | 2.2 |

## K186 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:10:41

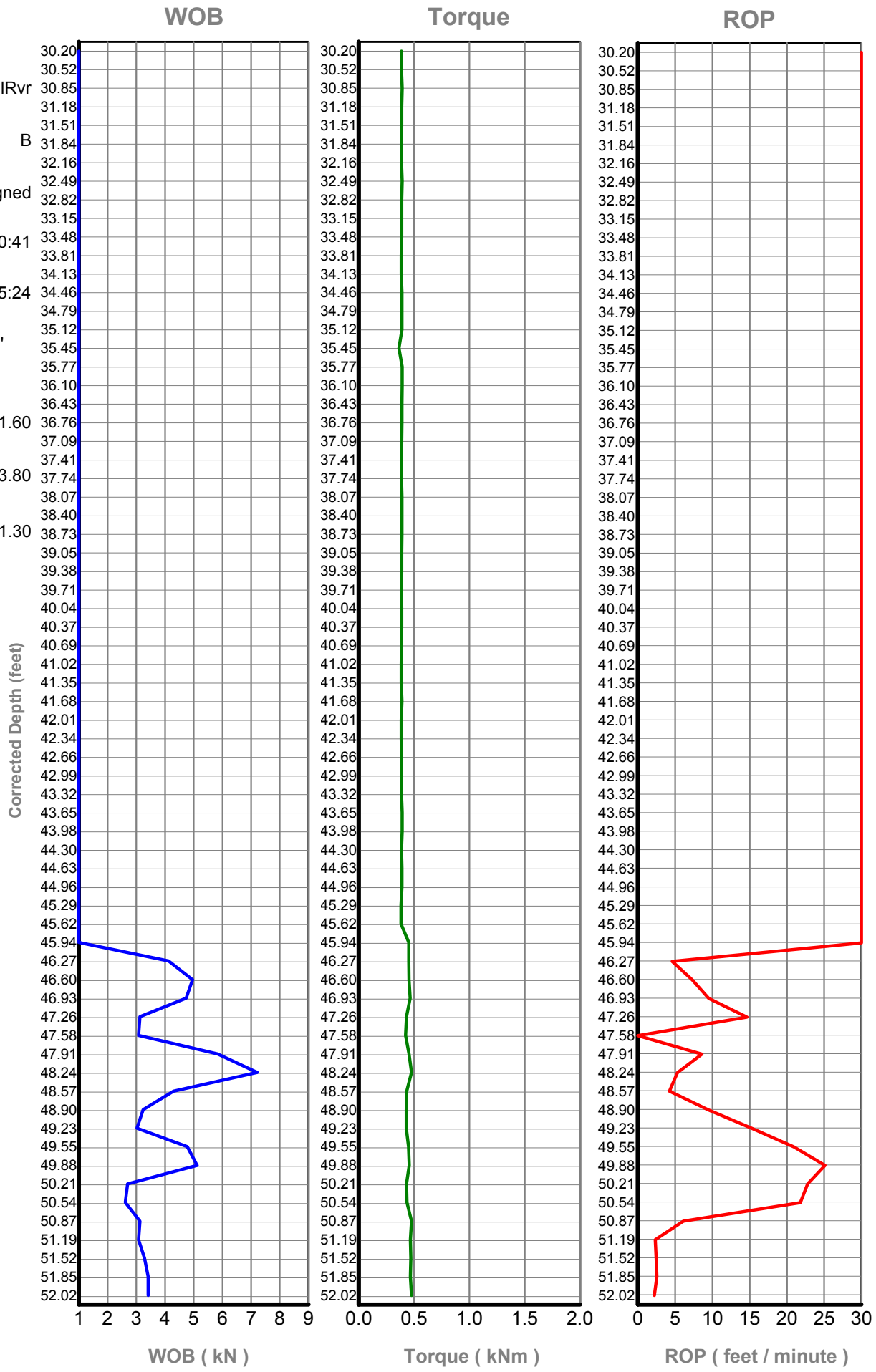
**End Date:**
4/30/2015 4:15:24

**Operator Note:**
'1.3 1.5b Auto Complete'

**Northing:**
361,881.60

**Easting:**
245,333.80

**Tide (feet):**
1.30



## Hole: K187 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:10:43 | 31.50 | 30.20 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 4:10:43 | 31.82 | 30.52 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 4:10:43 | 32.15 | 30.85 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 4:10:44 | 32.48 | 31.18 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:44 | 32.81 | 31.51 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:44 | 33.14 | 31.84 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:45 | 33.46 | 32.16 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:45 | 33.79 | 32.49 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:45 | 34.12 | 32.82 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:46 | 34.45 | 33.15 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:46 | 34.78 | 33.48 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:46 | 35.11 | 33.81 | 1,062 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:47 | 35.43 | 34.13 | 1,062 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:47 | 35.76 | 34.46 | 1,062 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:47 | 36.09 | 34.79 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:48 | 36.42 | 35.12 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 4:10:48 | 36.75 | 35.45 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:48 | 37.07 | 35.77 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:49 | 37.40 | 36.10 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:49 | 37.73 | 36.43 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:49 | 38.06 | 36.76 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:50 | 38.39 | 37.09 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:50 | 38.71 | 37.41 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 4:10:50 | 39.04 | 37.74 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 4:10:51 | 39.37 | 38.07 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 4:10:51 | 39.70 | 38.40 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 4:10:51 | 40.03 | 38.73 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:52 | 40.35 | 39.05 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:52 | 40.68 | 39.38 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:52 | 41.01 | 39.71 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:53 | 41.34 | 40.04 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:53 | 41.67 | 40.37 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:54 | 41.99 | 40.69 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:53 | 42.32 | 41.02 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:54 | 42.65 | 41.35 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:55 | 42.98 | 41.68 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:10:55 | 43.31 | 42.01 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 4:10:55 | 43.64 | 42.34 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:56 | 43.96 | 42.66 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:56 | 44.29 | 42.99 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:56 | 44.62 | 43.32 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 4:10:57 | 44.95 | 43.65 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 4:10:57 | 45.28 | 43.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 4:10:57 | 45.60 | 44.30 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 4:10:58 | 45.93 | 44.63 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 4:10:58 | 46.26 | 44.96 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:58 | 46.59 | 45.29 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:59 | 46.92 | 45.62 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:59 | 47.24 | 45.94 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 4:10:59 | 47.57 | 46.27 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:11:00 | 47.90 | 46.60 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 4:11:11 | 48.23 | 46.93 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 4:11:13 | 48.56 | 47.26 | 190 | 1.14 | 0.29 | 10.4 |
| 4/30/2015 4:11:14 | 48.88 | 47.58 | 223 | 1.14 | 0.29 | 12.2 |
| 4/30/2015 4:11:15 | 49.21 | 47.91 | 214 | 1.14 | 0.29 | 11.7 |
| 4/30/2015 4:11:15 | 49.54 | 48.24 | 320 | 1.14 | 0.29 | 17.5 |
| 4/30/2015 4:11:23 | 49.87 | 48.57 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:11:34 | 50.20 | 48.90 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 4:11:45 | 50.53 | 49.23 | 106 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 4:11:52 | 50.85 | 49.55 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 4:11:54 | 51.18 | 49.88 | 212 | 1.14 | 0.29 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 4:11:55 | 51.51 | 50.21 | 279 | 1.14 | 0.29 | 15.3 |
| 4/30/2015 | 4:12:10 | 51.84 | 50.54 | 51 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 | 4:12:11 | 52.17 | 50.87 | 163 | 1.14 | 0.29 | 8.9 |
| 4/30/2015 | 4:12:43 | 52.49 | 51.19 | 93 | 1.14 | 0.29 | 5.1 |
| 4/30/2015 | 4:12:44 | 52.82 | 51.52 | 261 | 1.14 | 0.29 | 14.3 |
| 4/30/2015 | 4:12:44 | 53.15 | 51.85 | 369 | 1.14 | 0.29 | 20.2 |
| 4/30/2015 | 4:12:45 | 53.48 | 52.18 | 464 | 1.14 | 0.29 | 25.4 |
| 4/30/2015 | 4:12:45 | 53.81 | 52.51 | 548 | 1.14 | 0.29 | 30.0 |
| 4/30/2015 | 4:12:48 | 54.13 | 52.83 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 | 4:12:49 | 54.46 | 53.16 | 168 | 1.14 | 0.29 | 9.2 |
| 4/30/2015 | 4:12:49 | 54.79 | 53.49 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 | 4:12:50 | 55.12 | 53.82 | 391 | 1.14 | 0.29 | 21.4 |
| 4/30/2015 | 4:12:50 | 55.45 | 54.15 | 506 | 1.14 | 0.29 | 27.7 |
| 4/30/2015 | 4:12:51 | 55.77 | 54.47 | 532 | 1.14 | 0.29 | 29.1 |
| 4/30/2015 | 4:12:53 | 56.10 | 54.80 | 483 | 1.14 | 0.29 | 26.4 |
| 4/30/2015 | 4:12:55 | 56.43 | 55.13 | 136 | 1.14 | 0.29 | 7.4 |
| 4/30/2015 | 4:12:55 | 56.54 | 55.24 | 136 | 1.14 | 0.29 | 7.4 |

## K187 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:09:41

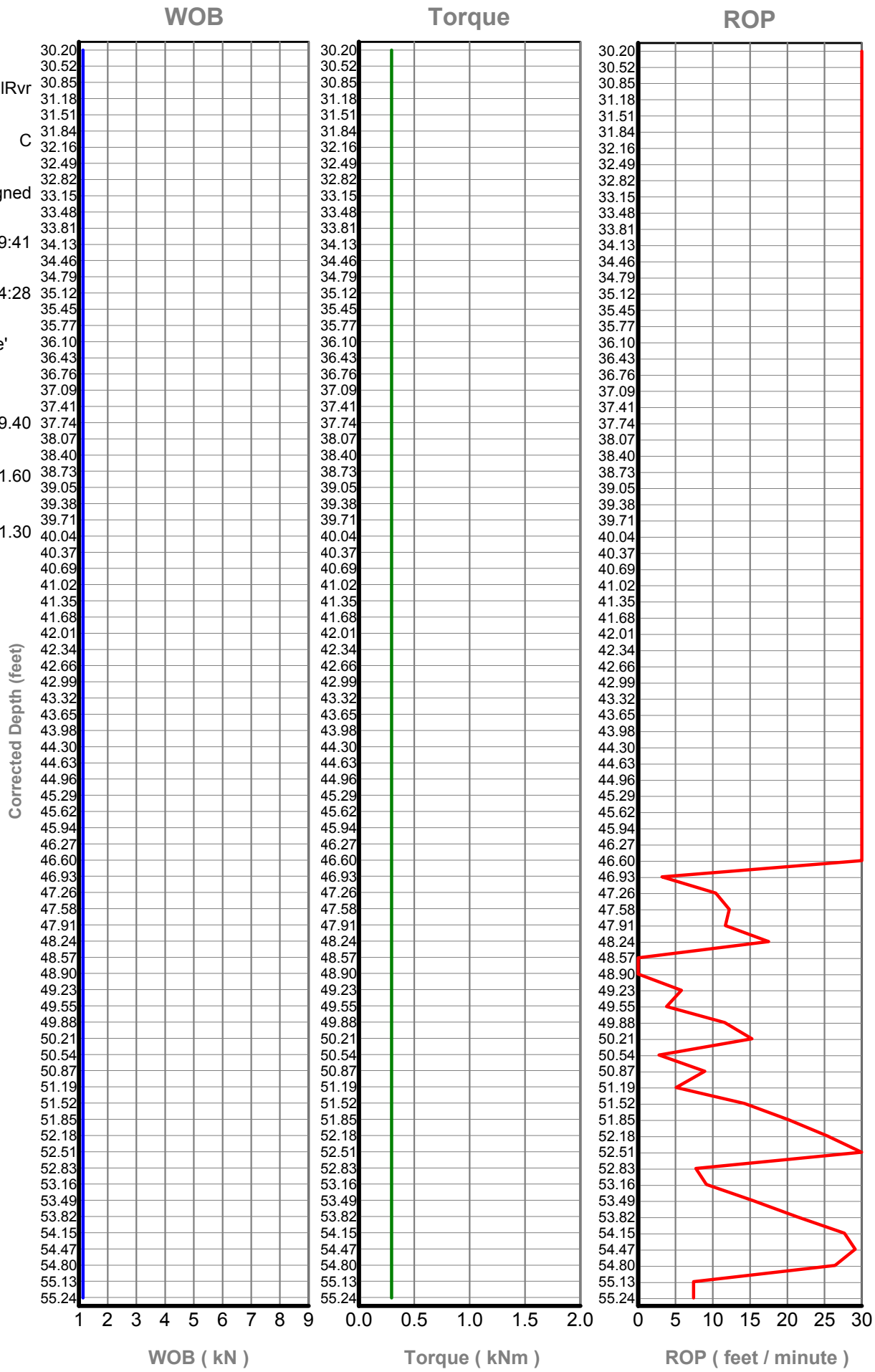
**End Date:**
4/30/2015 4:14:28

**Operator Note:**
'1.3 1.5 c Auto Complete'

**Northing:**
361,929.40

**Easting:**
245,391.60

**Tide (feet):**
1.30



## Hole: K188 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:31:35 | 32.15 | 30.25 | 1,217 | 1.32 | 0.80 | 66.6 |
| 4/30/2015 3:31:35 | 32.48 | 30.58 | 1,174 | 1.32 | 0.80 | 64.2 |
| 4/30/2015 3:31:36 | 32.81 | 30.91 | 1,116 | 1.33 | 0.81 | 61.0 |
| 4/30/2015 3:31:36 | 33.14 | 31.24 | 1,116 | 1.33 | 0.81 | 61.0 |
| 4/30/2015 3:31:36 | 33.46 | 31.56 | 1,052 | 1.31 | 0.80 | 57.5 |
| 4/30/2015 3:31:37 | 33.79 | 31.89 | 1,023 | 1.33 | 0.81 | 55.9 |
| 4/30/2015 3:31:38 | 34.12 | 32.22 | 948 | 1.32 | 0.81 | 51.8 |
| 4/30/2015 3:31:38 | 34.45 | 32.55 | 948 | 1.32 | 0.81 | 51.8 |
| 4/30/2015 3:31:38 | 34.78 | 32.88 | 916 | 1.34 | 0.81 | 50.1 |
| 4/30/2015 3:31:39 | 35.11 | 33.21 | 908 | 1.34 | 0.81 | 49.7 |
| 4/30/2015 3:31:39 | 35.43 | 33.53 | 913 | 1.34 | 0.82 | 50.0 |
| 4/30/2015 3:31:40 | 35.76 | 33.86 | 913 | 1.34 | 0.82 | 50.0 |
| 4/30/2015 3:31:40 | 36.09 | 34.19 | 908 | 1.34 | 0.81 | 49.6 |
| 4/30/2015 3:31:40 | 36.42 | 34.52 | 905 | 1.32 | 0.80 | 49.5 |
| 4/30/2015 3:31:41 | 36.75 | 34.85 | 885 | 1.87 | 0.80 | 48.4 |
| 4/30/2015 3:31:41 | 37.07 | 35.17 | 885 | 1.87 | 0.80 | 48.4 |
| 4/30/2015 3:31:41 | 37.40 | 35.50 | 885 | 1.68 | 0.80 | 48.4 |
| 4/30/2015 3:31:42 | 37.73 | 35.83 | 941 | 1.64 | 0.22 | 51.5 |
| 4/30/2015 3:31:42 | 38.06 | 36.16 | 941 | 1.64 | 0.22 | 51.5 |
| 4/30/2015 3:31:42 | 38.39 | 36.49 | 996 | 1.63 | 0.22 | 54.5 |
| 4/30/2015 3:31:43 | 38.71 | 36.81 | 996 | 1.63 | 0.22 | 54.5 |
| 4/30/2015 3:31:43 | 39.04 | 37.14 | 1,061 | 1.66 | 0.22 | 58.0 |
| 4/30/2015 3:31:43 | 39.37 | 37.47 | 1,061 | 1.66 | 0.22 | 58.0 |
| 4/30/2015 3:31:43 | 39.70 | 37.80 | 1,132 | 1.43 | 0.24 | 61.9 |
| 4/30/2015 3:31:44 | 40.03 | 38.13 | 1,164 | 1.70 | 0.23 | 63.6 |
| 4/30/2015 3:31:44 | 40.35 | 38.45 | 1,164 | 1.70 | 0.23 | 63.6 |
| 4/30/2015 3:31:44 | 40.68 | 38.78 | 1,157 | 1.66 | 0.22 | 63.2 |
| 4/30/2015 3:31:45 | 41.01 | 39.11 | 1,157 | 1.66 | 0.22 | 63.2 |
| 4/30/2015 3:31:45 | 41.34 | 39.44 | 1,144 | 1.66 | 0.22 | 62.6 |
| 4/30/2015 3:31:45 | 41.67 | 39.77 | 1,128 | 1.69 | 0.22 | 61.7 |
| 4/30/2015 3:31:46 | 41.99 | 40.09 | 1,128 | 1.69 | 0.22 | 61.7 |
| 4/30/2015 3:31:46 | 42.32 | 40.42 | 1,112 | 1.68 | 0.23 | 60.8 |
| 4/30/2015 3:31:46 | 42.65 | 40.75 | 1,112 | 1.68 | 0.23 | 60.8 |
| 4/30/2015 3:31:46 | 42.98 | 41.08 | 1,112 | 1.66 | 0.22 | 60.8 |
| 4/30/2015 3:31:47 | 43.31 | 41.41 | 1,112 | 1.66 | 0.22 | 60.8 |
| 4/30/2015 3:31:47 | 43.64 | 41.74 | 1,170 | 1.66 | 0.22 | 64.0 |
| 4/30/2015 3:31:47 | 43.96 | 42.06 | 1,190 | 1.66 | 0.22 | 65.1 |
| 4/30/2015 3:31:48 | 44.29 | 42.39 | 1,190 | 1.66 | 0.22 | 65.1 |
| 4/30/2015 3:31:48 | 44.62 | 42.72 | 1,207 | 1.66 | 0.22 | 66.0 |
| 4/30/2015 3:31:49 | 44.95 | 43.05 | 1,207 | 1.66 | 0.22 | 66.0 |
| 4/30/2015 3:31:49 | 45.28 | 43.38 | 1,204 | 1.66 | 0.22 | 65.9 |
| 4/30/2015 3:31:49 | 45.60 | 43.70 | 1,204 | 1.66 | 0.22 | 65.9 |
| 4/30/2015 3:31:49 | 45.93 | 44.03 | 1,204 | 1.66 | 0.22 | 65.9 |
| 4/30/2015 3:31:50 | 46.26 | 44.36 | 1,204 | 1.66 | 0.22 | 65.9 |
| 4/30/2015 3:31:50 | 46.59 | 44.69 | 1,221 | 1.68 | 0.22 | 66.8 |
| 4/30/2015 3:31:50 | 46.92 | 45.02 | 1,189 | 1.64 | 0.22 | 65.0 |
| 4/30/2015 3:31:51 | 47.24 | 45.34 | 1,189 | 1.64 | 0.22 | 65.0 |
| 4/30/2015 3:31:57 | 47.57 | 45.67 | 0 | 1.05 | 1.03 | 0.0 |
| 4/30/2015 3:32:01 | 47.90 | 46.00 | 65 | 1.05 | 1.35 | 3.5 |
| 4/30/2015 3:32:03 | 48.23 | 46.33 | 134 | 1.04 | 1.61 | 7.3 |
| 4/30/2015 3:32:04 | 48.56 | 46.66 | 174 | 1.11 | 1.25 | 9.5 |
| 4/30/2015 3:32:06 | 48.88 | 46.98 | 207 | 1.03 | 1.15 | 11.3 |
| 4/30/2015 3:32:08 | 49.21 | 47.31 | 209 | 0.45 | 1.38 | 11.4 |
| 4/30/2015 3:32:19 | 49.54 | 47.64 | 11 | 1.72 | 1.35 | 0.6 |
| 4/30/2015 3:32:20 | 49.87 | 47.97 | 126 | 1.93 | 1.55 | 6.9 |
| 4/30/2015 3:32:21 | 50.20 | 48.30 | 262 | 1.79 | 1.15 | 14.3 |
| 4/30/2015 3:32:26 | 50.53 | 48.63 | 0 | 1.48 | 1.18 | 0.0 |
| 4/30/2015 3:32:27 | 50.85 | 48.95 | 56 | 1.14 | 0.89 | 3.1 |
| 4/30/2015 3:32:28 | 51.18 | 49.28 | 174 | 1.36 | 0.67 | 9.5 |
| 4/30/2015 3:32:28 | 51.51 | 49.61 | 291 | 1.64 | 0.64 | 15.9 |
| 4/30/2015 3:32:29 | 51.84 | 49.94 | 291 | 1.64 | 0.64 | 15.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:32:29 | 52.17 | 50.27 | 291 | 1.31 | 0.68 | 15.9 |
| 4/30/2015 | 3:32:30 | 52.49 | 50.59 | 461 | 1.06 | 0.76 | 25.2 |
| 4/30/2015 | 3:32:31 | 52.82 | 50.92 | 620 | 1.06 | 0.74 | 33.9 |
| 4/30/2015 | 3:32:31 | 53.15 | 51.25 | 608 | 1.06 | 0.74 | 33.2 |
| 4/30/2015 | 3:32:32 | 53.48 | 51.58 | 512 | 1.07 | 0.76 | 28.0 |
| 4/30/2015 | 3:32:33 | 53.81 | 51.91 | 489 | 1.06 | 0.80 | 26.7 |
| 4/30/2015 | 3:32:34 | 54.13 | 52.23 | 448 | 1.05 | 0.85 | 24.5 |
| 4/30/2015 | 3:32:35 | 54.46 | 52.56 | 412 | 1.07 | 0.82 | 22.5 |
| 4/30/2015 | 3:32:36 | 54.79 | 52.89 | 387 | 1.07 | 1.15 | 21.1 |
| 4/30/2015 | 3:32:38 | 55.12 | 53.22 | 253 | 1.07 | 1.07 | 13.8 |
| 4/30/2015 | 3:32:41 | 55.45 | 53.55 | 125 | 1.08 | 0.95 | 6.8 |
| 4/30/2015 | 3:33:55 | 55.77 | 53.87 | 46 | 1.07 | 1.29 | 2.5 |
| 4/30/2015 | 3:33:57 | 56.10 | 54.20 | 155 | 1.04 | 1.27 | 8.5 |
| 4/30/2015 | 3:33:58 | 56.43 | 54.53 | 206 | 2.14 | 1.19 | 11.3 |
| 4/30/2015 | 3:34:00 | 56.76 | 54.86 | 244 | 1.10 | 1.22 | 13.3 |
| 4/30/2015 | 3:34:01 | 57.09 | 55.19 | 243 | 1.40 | 1.00 | 13.3 |
| 4/30/2015 | 3:34:02 | 57.41 | 55.51 | 302 | 1.11 | 0.92 | 16.5 |
| 4/30/2015 | 3:34:02 | 57.50 | 55.60 | 302 | 1.11 | 0.92 | 16.5 |

## K188 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:29:35

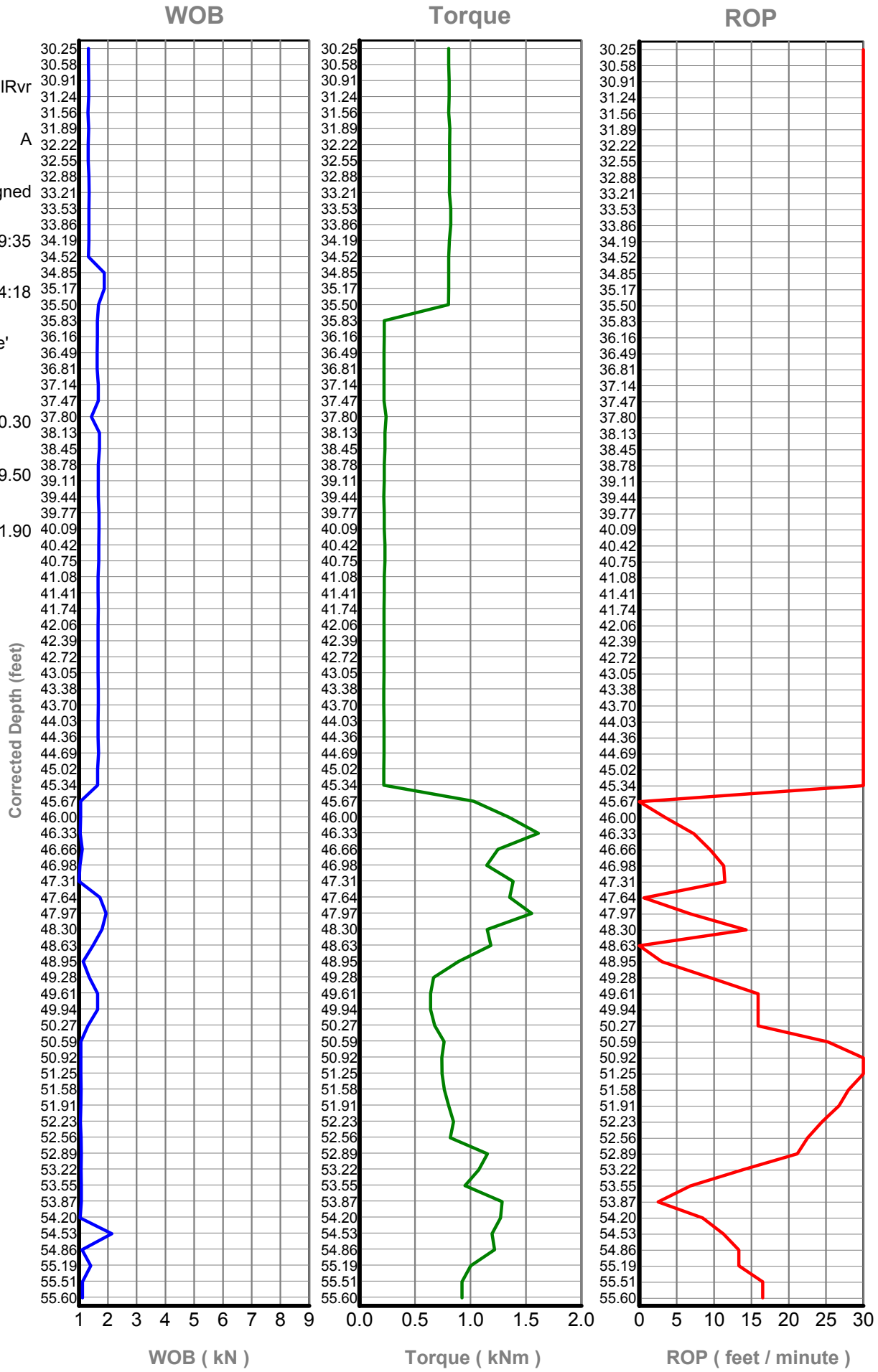
**End Date:**
4/30/2015 3:54:18

**Operator Note:**
'1.9 2.1 b Auto Complete'

**Northing:**
361,970.30

**Easting:**
245,449.50

**Tide (feet):**
1.90



## Hole: K189 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:32:01 | 32.15 | 30.25 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 3:32:01 | 32.48 | 30.58 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 3:32:01 | 32.81 | 30.91 | 1,161 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 3:32:02 | 33.14 | 31.24 | 1,161 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 3:32:02 | 33.46 | 31.56 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 3:32:02 | 33.79 | 31.89 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 3:32:03 | 34.12 | 32.22 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 3:32:03 | 34.45 | 32.55 | 1,176 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:32:03 | 34.78 | 32.88 | 1,176 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 3:32:03 | 35.11 | 33.21 | 1,169 | 0.30 | 0.37 | 63.9 |
| 4/30/2015 3:32:04 | 35.43 | 33.53 | 1,169 | 0.30 | 0.37 | 63.9 |
| 4/30/2015 3:32:04 | 35.76 | 33.86 | 1,149 | 0.30 | 0.39 | 62.8 |
| 4/30/2015 3:32:04 | 36.09 | 34.19 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 3:32:05 | 36.42 | 34.52 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 3:32:05 | 36.75 | 34.85 | 1,166 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 3:32:05 | 37.07 | 35.17 | 1,166 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 3:32:05 | 37.40 | 35.50 | 1,166 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 3:32:06 | 37.73 | 35.83 | 1,167 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 3:32:06 | 38.06 | 36.16 | 1,167 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 3:32:06 | 38.39 | 36.49 | 1,173 | 0.31 | 0.37 | 64.1 |
| 4/30/2015 3:32:07 | 38.71 | 36.81 | 1,173 | 0.31 | 0.37 | 64.1 |
| 4/30/2015 3:32:07 | 39.04 | 37.14 | 1,166 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 3:32:08 | 39.37 | 37.47 | 1,166 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 3:32:07 | 39.70 | 37.80 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 3:32:08 | 40.03 | 38.13 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 3:32:08 | 40.35 | 38.45 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 3:32:09 | 40.68 | 38.78 | 1,185 | 0.28 | 0.38 | 64.8 |
| 4/30/2015 3:32:09 | 41.01 | 39.11 | 1,185 | 0.28 | 0.38 | 64.8 |
| 4/30/2015 3:32:09 | 41.34 | 39.44 | 1,149 | 0.31 | 0.40 | 62.8 |
| 4/30/2015 3:32:10 | 41.67 | 39.77 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 3:32:10 | 41.99 | 40.09 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 3:32:10 | 42.32 | 40.42 | 1,143 | 0.31 | 0.37 | 62.5 |
| 4/30/2015 3:32:11 | 42.65 | 40.75 | 1,143 | 0.31 | 0.37 | 62.5 |
| 4/30/2015 3:32:11 | 42.98 | 41.08 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 3:32:11 | 43.31 | 41.41 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 3:32:11 | 43.64 | 41.74 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 3:32:12 | 43.96 | 42.06 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 3:32:12 | 44.29 | 42.39 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 3:32:12 | 44.62 | 42.72 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 3:32:13 | 44.95 | 43.05 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 3:32:13 | 45.28 | 43.38 | 1,188 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 3:32:13 | 45.60 | 43.70 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 3:32:14 | 45.93 | 44.03 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 3:32:14 | 46.26 | 44.36 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:32:14 | 46.59 | 44.69 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 3:32:14 | 46.92 | 45.02 | 1,169 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 3:32:15 | 47.24 | 45.34 | 1,169 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 3:32:18 | 47.57 | 45.67 | 268 | 6.47 | 0.47 | 14.7 |
| 4/30/2015 3:32:22 | 47.90 | 46.00 | 66 | 4.15 | 0.43 | 3.6 |
| 4/30/2015 3:32:23 | 48.23 | 46.33 | 107 | 2.84 | 0.42 | 5.8 |
| 4/30/2015 3:32:23 | 48.56 | 46.66 | 107 | 3.40 | 0.42 | 5.8 |
| 4/30/2015 3:32:24 | 48.88 | 46.98 | 266 | 3.53 | 0.42 | 14.6 |
| 4/30/2015 3:32:32 | 49.21 | 47.31 | 12 | 7.38 | 0.45 | 0.6 |
| 4/30/2015 3:32:33 | 49.54 | 47.64 | 133 | 3.71 | 0.43 | 7.3 |
| 4/30/2015 3:32:34 | 49.87 | 47.97 | 313 | 3.92 | 0.43 | 17.1 |
| 4/30/2015 3:32:35 | 50.20 | 48.30 | 416 | 3.06 | 0.41 | 22.7 |
| 4/30/2015 3:32:35 | 50.53 | 48.63 | 474 | 2.64 | 0.41 | 25.9 |
| 4/30/2015 3:32:36 | 50.85 | 48.95 | 527 | 2.67 | 0.41 | 28.8 |
| 4/30/2015 3:32:36 | 51.18 | 49.28 | 592 | 2.95 | 0.42 | 32.4 |
| 4/30/2015 3:32:37 | 51.51 | 49.61 | 619 | 3.15 | 0.44 | 33.8 |
| 4/30/2015 3:32:39 | 51.84 | 49.94 | 334 | 4.34 | 0.46 | 18.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:32:40 | 52.17 | 50.27 | 206 | 3.35 | 0.38 | 11.3 |
| 4/30/2015 | 3:32:43 | 52.49 | 50.59 | 149 | 4.62 | 0.45 | 8.2 |
| 4/30/2015 | 3:32:45 | 52.82 | 50.92 | 160 | 2.87 | 0.42 | 8.7 |
| 4/30/2015 | 3:32:46 | 53.15 | 51.25 | 209 | 3.83 | 0.45 | 11.5 |
| 4/30/2015 | 3:32:48 | 53.48 | 51.58 | 241 | 2.41 | 0.41 | 13.2 |
| 4/30/2015 | 3:32:49 | 53.81 | 51.91 | 265 | 2.55 | 0.41 | 14.5 |
| 4/30/2015 | 3:32:53 | 54.13 | 52.23 | 68 | 2.50 | 0.43 | 3.7 |
| 4/30/2015 | 3:32:54 | 54.46 | 52.56 | 86 | 2.37 | 0.42 | 4.7 |
| 4/30/2015 | 3:32:54 | 54.79 | 52.89 | 205 | 2.25 | 0.40 | 11.2 |
| 4/30/2015 | 3:32:55 | 55.12 | 53.22 | 205 | 3.35 | 0.42 | 11.2 |
| 4/30/2015 | 3:32:56 | 55.45 | 53.55 | 411 | 3.26 | 0.45 | 22.5 |
| 4/30/2015 | 3:32:58 | 55.77 | 53.87 | 196 | 3.31 | 0.41 | 10.7 |
| 4/30/2015 | 3:32:59 | 56.10 | 54.20 | 196 | 2.80 | 0.42 | 10.7 |
| 4/30/2015 | 3:33:00 | 56.43 | 54.53 | 233 | 2.99 | 0.44 | 12.7 |
| 4/30/2015 | 3:33:01 | 56.76 | 54.86 | 317 | 3.18 | 0.44 | 17.3 |
| 4/30/2015 | 3:33:03 | 57.06 | 55.16 | 202 | 3.24 | 0.44 | 11.1 |

## K189 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:30:37

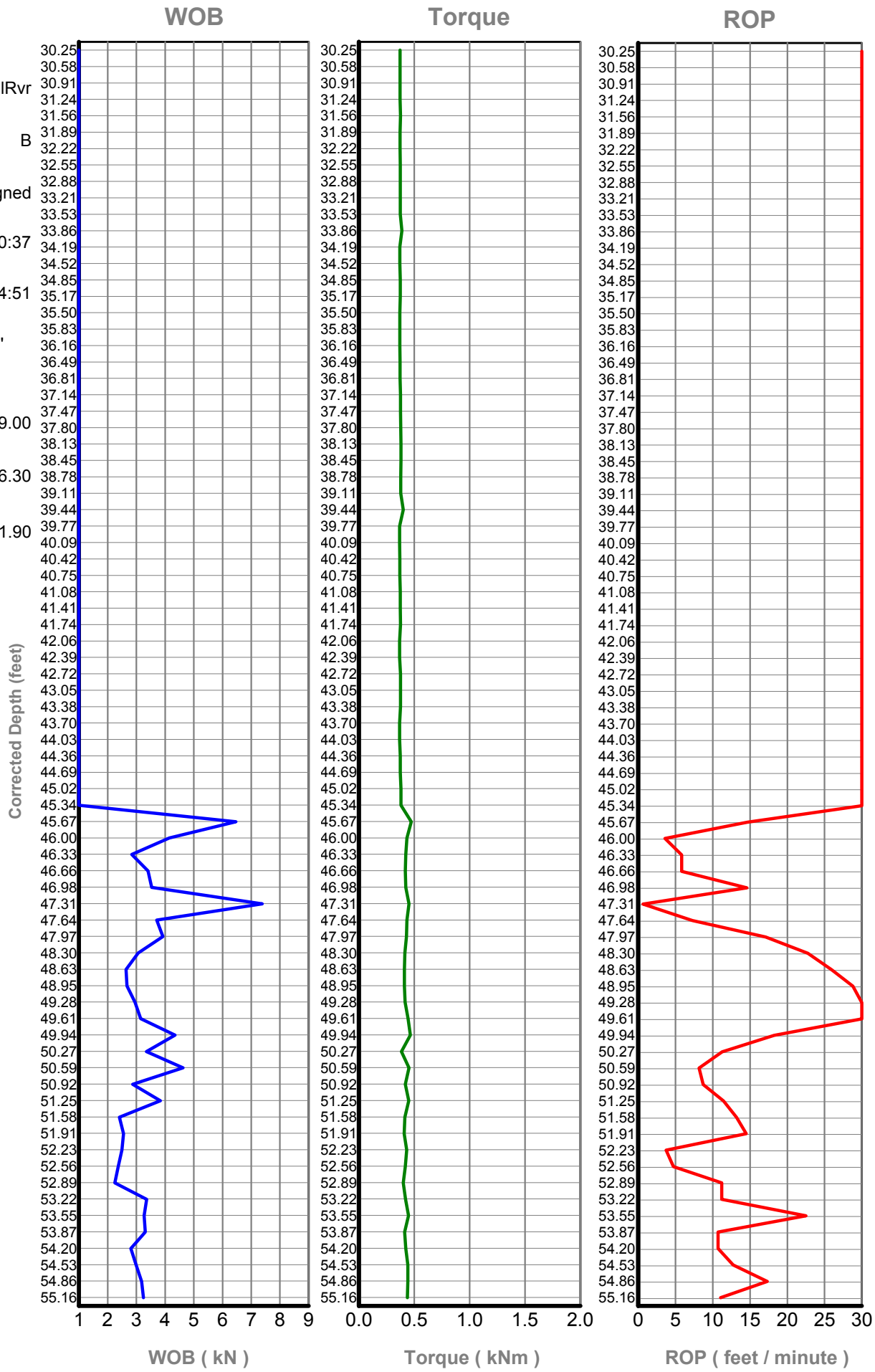
**End Date:**
4/30/2015 3:34:51

**Operator Note:**
'1.9 2.1b Auto Complete'

**Northing:**
362,019.00

**Easting:**
245,506.30

**Tide (feet):**
1.90



## Hole: K19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:33:07 | 34.78 | 30.08 | 1,093 | 0.30 | 0.38 | 59.8 |
| 4/30/2015 8:33:07 | 35.11 | 30.41 | 1,093 | 0.33 | 0.38 | 59.8 |
| 4/30/2015 8:33:08 | 35.43 | 30.73 | 1,093 | 0.33 | 0.39 | 59.8 |
| 4/30/2015 8:33:08 | 35.76 | 31.06 | 1,093 | 0.33 | 0.39 | 59.8 |
| 4/30/2015 8:33:08 | 36.09 | 31.39 | 1,093 | 0.33 | 0.38 | 59.8 |
| 4/30/2015 8:33:09 | 36.42 | 31.72 | 1,093 | 0.33 | 0.38 | 59.8 |
| 4/30/2015 8:33:09 | 36.75 | 32.05 | 1,096 | 0.32 | 0.38 | 59.9 |
| 4/30/2015 8:33:09 | 37.07 | 32.37 | 1,093 | 0.30 | 0.39 | 59.8 |
| 4/30/2015 8:33:10 | 37.40 | 32.70 | 1,093 | 0.30 | 0.39 | 59.8 |
| 4/30/2015 8:33:10 | 37.73 | 33.03 | 1,090 | 0.33 | 0.38 | 59.6 |
| 4/30/2015 8:33:10 | 38.06 | 33.36 | 1,086 | 0.32 | 0.38 | 59.4 |
| 4/30/2015 8:33:11 | 38.39 | 33.69 | 1,086 | 0.32 | 0.38 | 59.4 |
| 4/30/2015 8:33:11 | 38.71 | 34.01 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 8:33:11 | 39.04 | 34.34 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 8:33:11 | 39.37 | 34.67 | 1,107 | 0.33 | 0.38 | 60.6 |
| 4/30/2015 8:33:12 | 39.70 | 35.00 | 1,107 | 0.33 | 0.39 | 60.6 |
| 4/30/2015 8:33:12 | 40.03 | 35.33 | 1,107 | 0.33 | 0.39 | 60.6 |
| 4/30/2015 8:33:12 | 40.35 | 35.65 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:13 | 40.68 | 35.98 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:13 | 41.01 | 36.31 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 8:33:13 | 41.34 | 36.64 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:14 | 41.67 | 36.97 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:14 | 41.99 | 37.29 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:14 | 42.32 | 37.62 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:15 | 42.65 | 37.95 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:15 | 42.98 | 38.28 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/30/2015 8:33:15 | 43.31 | 38.61 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/30/2015 8:33:15 | 43.64 | 38.94 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:16 | 43.96 | 39.26 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 8:33:16 | 44.29 | 39.59 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 8:33:16 | 44.62 | 39.92 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:17 | 44.95 | 40.25 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:17 | 45.28 | 40.58 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 8:33:18 | 45.60 | 40.90 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:18 | 45.93 | 41.23 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:18 | 46.26 | 41.56 | 1,120 | 0.33 | 0.37 | 61.2 |
| 4/30/2015 8:33:19 | 46.59 | 41.89 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:19 | 46.92 | 42.22 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:19 | 47.24 | 42.54 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 8:33:20 | 47.57 | 42.87 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 8:33:20 | 47.90 | 43.20 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 8:33:20 | 48.23 | 43.53 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:21 | 48.56 | 43.86 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 8:33:21 | 48.88 | 44.18 | 1,109 | 0.33 | 0.38 | 60.6 |
| 4/30/2015 8:33:21 | 49.21 | 44.51 | 1,109 | 0.33 | 0.38 | 60.6 |
| 4/30/2015 8:33:21 | 49.54 | 44.84 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 8:33:22 | 49.87 | 45.17 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:22 | 50.20 | 45.50 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:22 | 50.53 | 45.83 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 8:33:23 | 50.85 | 46.15 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:23 | 51.18 | 46.48 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:23 | 51.51 | 46.81 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:24 | 51.84 | 47.14 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:24 | 52.17 | 47.47 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/30/2015 8:33:24 | 52.49 | 47.79 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:25 | 52.82 | 48.12 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 8:33:25 | 53.15 | 48.45 | 1,106 | 0.31 | 0.42 | 60.5 |
| 4/30/2015 8:33:40 | 53.48 | 48.78 | 57 | 3.79 | 0.45 | 3.1 |
| 4/30/2015 8:33:41 | 53.81 | 49.11 | 177 | 3.97 | 0.46 | 9.7 |
| 4/30/2015 8:33:43 | 54.13 | 49.43 | 147 | 3.07 | 0.42 | 8.1 |
| 4/30/2015 8:33:43 | 54.46 | 49.76 | 270 | 3.53 | 0.41 | 14.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 8:33:49 | 54.79 | 50.09 | 6 | 3.25 | 0.43 | 0.3 |
| 4/30/2015 | 8:33:50 | 55.12 | 50.42 | 123 | 3.31 | 0.42 | 6.7 |
| 4/30/2015 | 8:33:51 | 55.45 | 50.75 | 326 | 4.21 | 0.43 | 17.8 |
| 4/30/2015 | 8:33:52 | 55.77 | 51.07 | 466 | 4.33 | 0.42 | 25.5 |
| 4/30/2015 | 8:34:20 | 56.10 | 51.40 | 59 | 5.42 | 0.45 | 3.2 |
| 4/30/2015 | 8:34:23 | 56.43 | 51.73 | 98 | 4.10 | 0.46 | 5.4 |
| 4/30/2015 | 8:34:24 | 56.76 | 52.06 | 226 | 3.98 | 0.44 | 12.4 |
| 4/30/2015 | 8:34:25 | 57.09 | 52.39 | 313 | 3.64 | 0.45 | 17.1 |
| 4/30/2015 | 8:34:38 | 57.41 | 52.71 | 0 | 3.29 | 0.47 | 0.0 |
| 4/30/2015 | 8:34:43 | 57.74 | 53.04 | 66 | 3.74 | 0.47 | 3.6 |
| 4/30/2015 | 8:34:53 | 58.07 | 53.37 | 35 | 2.89 | 0.48 | 1.9 |
| 4/30/2015 | 8:35:02 | 58.40 | 53.70 | 41 | 3.01 | 0.47 | 2.2 |
| 4/30/2015 | 8:35:05 | 58.53 | 53.83 | 52 | 3.90 | 0.47 | 2.9 |

## K19 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:31:09

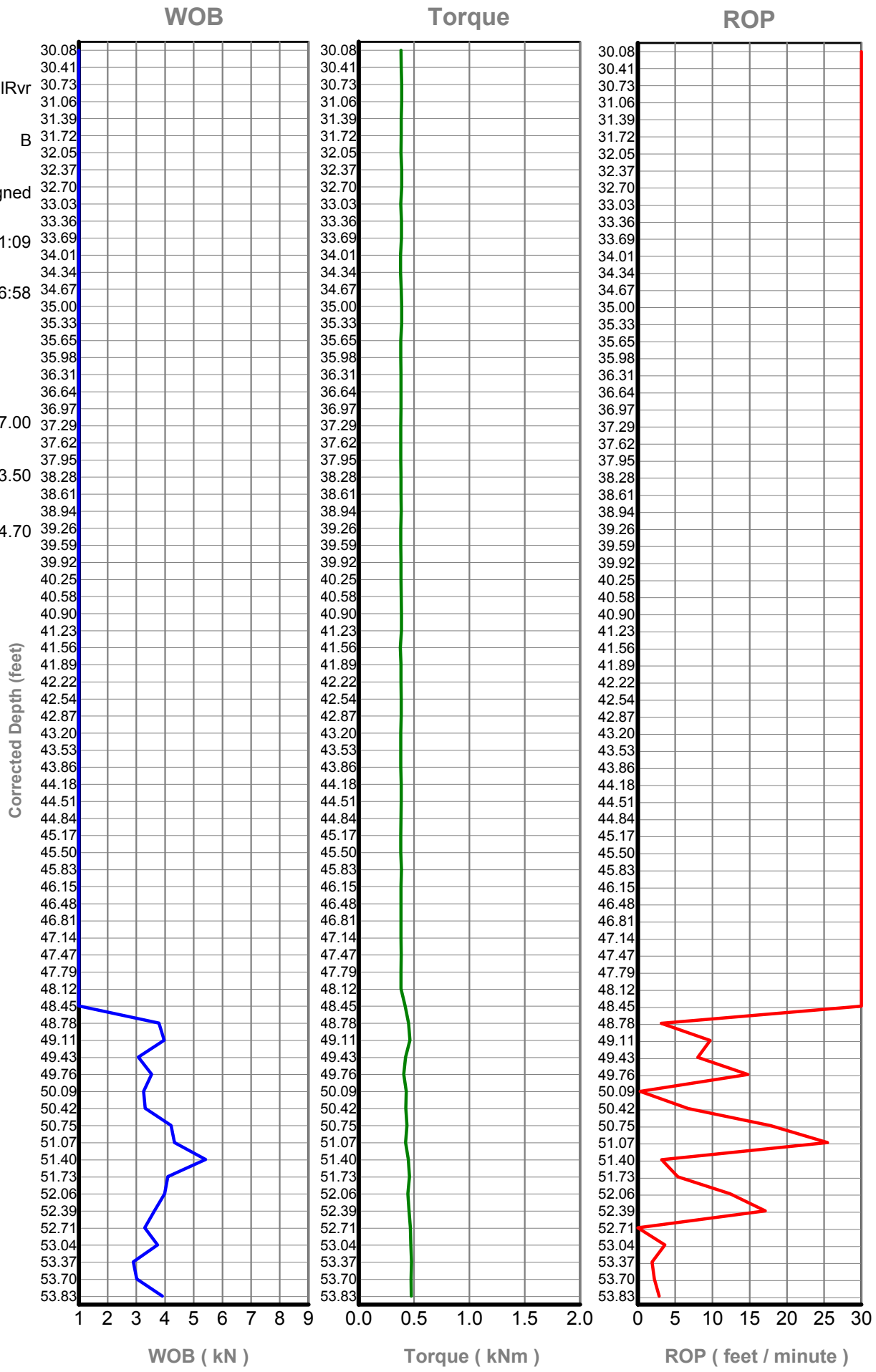
**End Date:**
4/30/2015 8:36:58

**Operator Note:**
'4.7 4.4 b Rock'

**Northing:**
361,657.00

**Easting:**
244,243.50

**Tide (feet):**
4.70



## Hole: K190 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:30:39 | 32.15 | 30.25 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:40 | 32.48 | 30.58 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:40 | 32.81 | 30.91 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 3:30:40 | 33.14 | 31.24 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 3:30:41 | 33.46 | 31.56 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 3:30:41 | 33.79 | 31.89 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 3:30:42 | 34.12 | 32.22 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 3:30:42 | 34.45 | 32.55 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 3:30:42 | 34.78 | 32.88 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 3:30:43 | 35.11 | 33.21 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 3:30:43 | 35.43 | 33.53 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:43 | 35.76 | 33.86 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:43 | 36.09 | 34.19 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 3:30:44 | 36.42 | 34.52 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:30:44 | 36.75 | 34.85 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:30:44 | 37.07 | 35.17 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:30:45 | 37.40 | 35.50 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 3:30:45 | 37.73 | 35.83 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 3:30:45 | 38.06 | 36.16 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 3:30:46 | 38.39 | 36.49 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 3:30:46 | 38.71 | 36.81 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 3:30:46 | 39.04 | 37.14 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 3:30:47 | 39.37 | 37.47 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 3:30:47 | 39.70 | 37.80 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 3:30:47 | 40.03 | 38.13 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 3:30:47 | 40.35 | 38.45 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 3:30:48 | 40.68 | 38.78 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 3:30:48 | 41.01 | 39.11 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 3:30:48 | 41.34 | 39.44 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:49 | 41.67 | 39.77 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:49 | 41.99 | 40.09 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 3:30:49 | 42.32 | 40.42 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:50 | 42.65 | 40.75 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:50 | 42.98 | 41.08 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:50 | 43.31 | 41.41 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:51 | 43.64 | 41.74 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:51 | 43.96 | 42.06 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:51 | 44.29 | 42.39 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 3:30:51 | 44.62 | 42.72 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:52 | 44.95 | 43.05 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 3:30:52 | 45.28 | 43.38 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 3:30:52 | 45.60 | 43.70 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:53 | 45.93 | 44.03 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:53 | 46.26 | 44.36 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:53 | 46.59 | 44.69 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:54 | 46.92 | 45.02 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:30:54 | 47.24 | 45.34 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 3:31:04 | 47.57 | 45.67 | 18 | 1.14 | 0.29 | 1.0 |
| 4/30/2015 3:31:18 | 47.90 | 46.00 | 47 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 3:31:19 | 48.23 | 46.33 | 233 | 1.14 | 0.29 | 12.7 |
| 4/30/2015 3:31:19 | 48.56 | 46.66 | 339 | 1.14 | 0.29 | 18.5 |
| 4/30/2015 3:31:20 | 48.88 | 46.98 | 453 | 1.14 | 0.29 | 24.8 |
| 4/30/2015 3:31:31 | 49.21 | 47.31 | 106 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 3:31:31 | 49.54 | 47.64 | 192 | 1.14 | 0.29 | 10.5 |
| 4/30/2015 3:31:32 | 49.87 | 47.97 | 346 | 1.14 | 0.29 | 18.9 |
| 4/30/2015 3:31:33 | 50.20 | 48.30 | 408 | 1.14 | 0.29 | 22.3 |
| 4/30/2015 3:31:34 | 50.53 | 48.63 | 428 | 1.14 | 0.29 | 23.4 |
| 4/30/2015 3:31:47 | 50.85 | 48.95 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 3:31:48 | 51.18 | 49.28 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 3:31:48 | 51.51 | 49.61 | 255 | 1.14 | 0.29 | 13.9 |
| 4/30/2015 3:31:49 | 51.84 | 49.94 | 428 | 1.14 | 0.29 | 23.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:31:50 | 52.17 | 50.27 | 456 | 1.14 | 0.29 | 24.9 |
| 4/30/2015 | 3:31:51 | 52.49 | 50.59 | 466 | 1.14 | 0.29 | 25.5 |
| 4/30/2015 | 3:32:16 | 52.82 | 50.92 | 24 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 | 3:32:17 | 53.15 | 51.25 | 206 | 1.14 | 0.29 | 11.3 |
| 4/30/2015 | 3:32:19 | 53.48 | 51.58 | 300 | 1.14 | 0.29 | 16.4 |
| 4/30/2015 | 3:32:20 | 53.81 | 51.91 | 217 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 | 3:32:21 | 54.13 | 52.23 | 277 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 | 3:32:22 | 54.46 | 52.56 | 302 | 1.14 | 0.29 | 16.5 |
| 4/30/2015 | 3:32:23 | 54.79 | 52.89 | 338 | 1.14 | 0.29 | 18.5 |
| 4/30/2015 | 3:32:24 | 55.12 | 53.22 | 368 | 1.14 | 0.29 | 20.1 |
| 4/30/2015 | 3:32:25 | 55.45 | 53.55 | 400 | 1.14 | 0.29 | 21.9 |
| 4/30/2015 | 3:32:25 | 55.77 | 53.87 | 469 | 1.14 | 0.29 | 25.6 |
| 4/30/2015 | 3:32:26 | 56.10 | 54.20 | 528 | 1.14 | 0.29 | 28.9 |
| 4/30/2015 | 3:32:54 | 56.43 | 54.53 | 12 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 | 3:32:54 | 56.76 | 54.86 | 86 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 | 3:32:55 | 57.09 | 55.19 | 263 | 1.14 | 0.29 | 14.4 |
| 4/30/2015 | 3:32:56 | 57.40 | 55.50 | 349 | 1.14 | 0.29 | 19.1 |

## K190 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:29:44

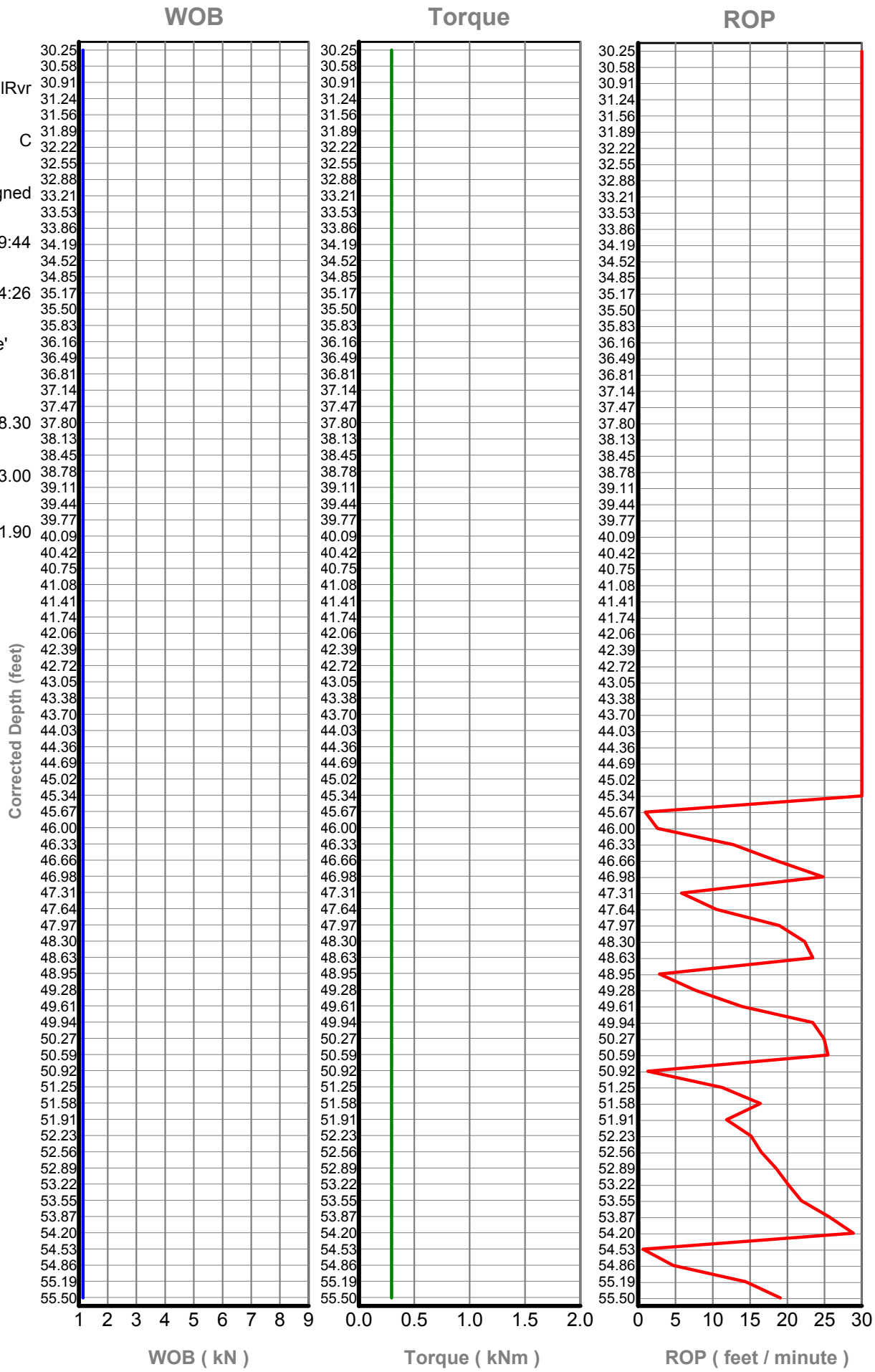
**End Date:**
4/30/2015 3:34:26

**Operator Note:**
'1.9 2.1 c Auto Complete'

**Northing:**
362,068.30

**Easting:**
245,563.00

**Tide (feet):**
1.90



## Hole: K191 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:50:50 | 35.76 | 30.16 | 731 | 1.11 | 0.20 | 40.0 |
| 4/29/2015 23:50:50 | 36.09 | 30.49 | 734 | 1.12 | 0.20 | 40.2 |
| 4/29/2015 23:50:51 | 36.42 | 30.82 | 734 | 1.13 | 0.20 | 40.2 |
| 4/29/2015 23:50:51 | 36.75 | 31.15 | 730 | 1.13 | 0.20 | 39.9 |
| 4/29/2015 23:50:52 | 37.07 | 31.47 | 730 | 1.13 | 0.20 | 39.9 |
| 4/29/2015 23:50:52 | 37.40 | 31.80 | 740 | 1.13 | 0.20 | 40.5 |
| 4/29/2015 23:50:52 | 37.73 | 32.13 | 737 | 1.15 | 0.21 | 40.3 |
| 4/29/2015 23:50:53 | 38.06 | 32.46 | 734 | 1.14 | 0.20 | 40.2 |
| 4/29/2015 23:50:53 | 38.39 | 32.79 | 740 | 1.13 | 0.20 | 40.5 |
| 4/29/2015 23:50:54 | 38.71 | 33.11 | 744 | 1.12 | 0.20 | 40.7 |
| 4/29/2015 23:50:54 | 39.04 | 33.44 | 737 | 1.11 | 0.20 | 40.3 |
| 4/29/2015 23:50:55 | 39.37 | 33.77 | 737 | 1.11 | 0.20 | 40.3 |
| 4/29/2015 23:50:56 | 39.70 | 34.10 | 736 | 1.12 | 0.20 | 40.2 |
| 4/29/2015 23:50:56 | 40.03 | 34.43 | 729 | 1.14 | 0.20 | 39.8 |
| 4/29/2015 23:50:57 | 40.35 | 34.75 | 729 | 1.13 | 0.20 | 39.8 |
| 4/29/2015 23:50:57 | 40.68 | 35.08 | 729 | 1.13 | 0.20 | 39.9 |
| 4/29/2015 23:50:58 | 41.01 | 35.41 | 727 | 1.13 | 0.20 | 39.7 |
| 4/29/2015 23:50:58 | 41.34 | 35.74 | 731 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:50:59 | 41.67 | 36.07 | 731 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:50:59 | 41.99 | 36.39 | 731 | 1.11 | 0.20 | 40.0 |
| 4/29/2015 23:50:59 | 42.32 | 36.72 | 736 | 1.13 | 0.20 | 40.3 |
| 4/29/2015 23:51:00 | 42.65 | 37.05 | 723 | 1.12 | 0.20 | 39.6 |
| 4/29/2015 23:51:00 | 42.98 | 37.38 | 735 | 1.12 | 0.20 | 40.2 |
| 4/29/2015 23:51:01 | 43.31 | 37.71 | 728 | 1.12 | 0.20 | 39.8 |
| 4/29/2015 23:51:01 | 43.64 | 38.04 | 732 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:51:02 | 43.96 | 38.36 | 728 | 1.14 | 0.20 | 39.8 |
| 4/29/2015 23:51:02 | 44.29 | 38.69 | 743 | 1.12 | 0.20 | 40.7 |
| 4/29/2015 23:51:03 | 44.62 | 39.02 | 727 | 1.12 | 0.21 | 39.8 |
| 4/29/2015 23:51:03 | 44.95 | 39.35 | 736 | 1.12 | 0.20 | 40.3 |
| 4/29/2015 23:51:04 | 45.28 | 39.68 | 732 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:51:04 | 45.60 | 40.00 | 732 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:51:05 | 45.93 | 40.33 | 729 | 1.13 | 0.20 | 39.9 |
| 4/29/2015 23:51:05 | 46.26 | 40.66 | 733 | 1.13 | 0.20 | 40.1 |
| 4/29/2015 23:51:06 | 46.59 | 40.99 | 716 | 1.12 | 0.20 | 39.2 |
| 4/29/2015 23:51:07 | 46.92 | 41.32 | 716 | 1.12 | 0.20 | 39.2 |
| 4/29/2015 23:51:07 | 47.24 | 41.64 | 716 | 1.12 | 0.20 | 39.2 |
| 4/29/2015 23:51:07 | 47.57 | 41.97 | 721 | 1.11 | 0.20 | 39.5 |
| 4/29/2015 23:51:08 | 47.90 | 42.30 | 729 | 1.13 | 0.20 | 39.8 |
| 4/29/2015 23:51:08 | 48.23 | 42.63 | 721 | 1.11 | 0.20 | 39.5 |
| 4/29/2015 23:51:09 | 48.56 | 42.96 | 724 | 1.12 | 0.20 | 39.6 |
| 4/29/2015 23:51:09 | 48.88 | 43.28 | 732 | 1.12 | 0.20 | 40.0 |
| 4/29/2015 23:51:10 | 49.21 | 43.61 | 731 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:51:10 | 49.54 | 43.94 | 724 | 1.12 | 0.20 | 39.6 |
| 4/29/2015 23:51:11 | 49.87 | 44.27 | 731 | 1.13 | 0.20 | 40.0 |
| 4/29/2015 23:51:11 | 50.20 | 44.60 | 729 | 1.12 | 0.20 | 39.8 |
| 4/29/2015 23:51:12 | 50.53 | 44.93 | 733 | 1.17 | 0.19 | 40.1 |
| 4/29/2015 23:51:24 | 50.85 | 45.25 | 71 | 1.17 | 1.49 | 3.9 |
| 4/29/2015 23:51:26 | 51.18 | 45.58 | 119 | 1.26 | 1.26 | 6.5 |
| 4/29/2015 23:51:29 | 51.51 | 45.91 | 123 | 1.21 | 1.19 | 6.7 |
| 4/29/2015 23:51:31 | 51.84 | 46.24 | 184 | 1.19 | 1.21 | 10.1 |
| 4/29/2015 23:51:33 | 52.17 | 46.57 | 190 | 1.21 | 1.05 | 10.4 |
| 4/29/2015 23:51:36 | 52.49 | 46.89 | 50 | 1.04 | 1.11 | 2.8 |
| 4/29/2015 23:51:36 | 52.82 | 47.22 | 141 | 1.13 | 0.81 | 7.7 |
| 4/29/2015 23:51:37 | 53.15 | 47.55 | 284 | 1.26 | 1.07 | 15.5 |
| 4/29/2015 23:51:55 | 53.48 | 47.88 | 0 | 1.64 | 1.24 | 0.0 |
| 4/29/2015 23:51:56 | 53.81 | 48.21 | 86 | 1.57 | 0.83 | 4.7 |
| 4/29/2015 23:51:56 | 54.13 | 48.53 | 240 | 1.65 | 0.89 | 13.1 |
| 4/29/2015 23:52:58 | 54.46 | 48.86 | 55 | 1.02 | 0.75 | 3.0 |
| 4/29/2015 23:52:58 | 54.79 | 49.19 | 117 | 1.24 | 0.81 | 6.4 |
| 4/29/2015 23:52:59 | 55.12 | 49.52 | 256 | 1.21 | 1.07 | 14.0 |
| 4/29/2015 23:53:00 | 55.45 | 49.85 | 403 | 1.21 | 1.02 | 22.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:53:02 | 55.77 | 50.17 | 348 | 1.17 | 1.25 | 19.0 |
| 4/29/2015 | 23:53:11 | 56.10 | 50.50 | 57 | 1.28 | 1.45 | 3.1 |
| 4/29/2015 | 23:53:12 | 56.43 | 50.83 | 212 | 1.74 | 1.09 | 11.6 |
| 4/29/2015 | 23:53:13 | 56.76 | 51.16 | 355 | 1.12 | 1.49 | 19.4 |
| 4/29/2015 | 23:53:14 | 57.09 | 51.49 | 412 | 1.74 | 1.01 | 22.5 |
| 4/29/2015 | 23:53:14 | 57.41 | 51.81 | 412 | 1.82 | 1.05 | 22.5 |
| 4/29/2015 | 23:53:26 | 57.74 | 52.14 | 9 | 1.06 | 1.05 | 0.5 |
| 4/29/2015 | 23:53:27 | 58.07 | 52.47 | 151 | 1.03 | 0.95 | 8.2 |
| 4/29/2015 | 23:53:27 | 58.40 | 52.80 | 245 | 1.19 | 0.84 | 13.4 |
| 4/29/2015 | 23:53:28 | 58.73 | 53.13 | 403 | 0.98 | 0.75 | 22.1 |
| 4/29/2015 | 23:53:29 | 59.06 | 53.46 | 403 | 1.12 | 0.77 | 22.1 |
| 4/29/2015 | 23:53:30 | 59.38 | 53.78 | 449 | 1.13 | 0.74 | 24.6 |
| 4/29/2015 | 23:53:30 | 59.71 | 54.11 | 447 | 1.13 | 0.82 | 24.4 |
| 4/29/2015 | 23:53:50 | 60.04 | 54.44 | 32 | 1.07 | 1.14 | 1.7 |
| 4/29/2015 | 23:53:51 | 60.37 | 54.77 | 141 | 1.11 | 1.02 | 7.7 |
| 4/29/2015 | 23:53:52 | 60.70 | 55.10 | 204 | 0.98 | 1.02 | 11.2 |
| 4/29/2015 | 23:53:53 | 60.92 | 55.32 | 321 | 0.56 | 1.37 | 17.5 |

## K191 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:47:43

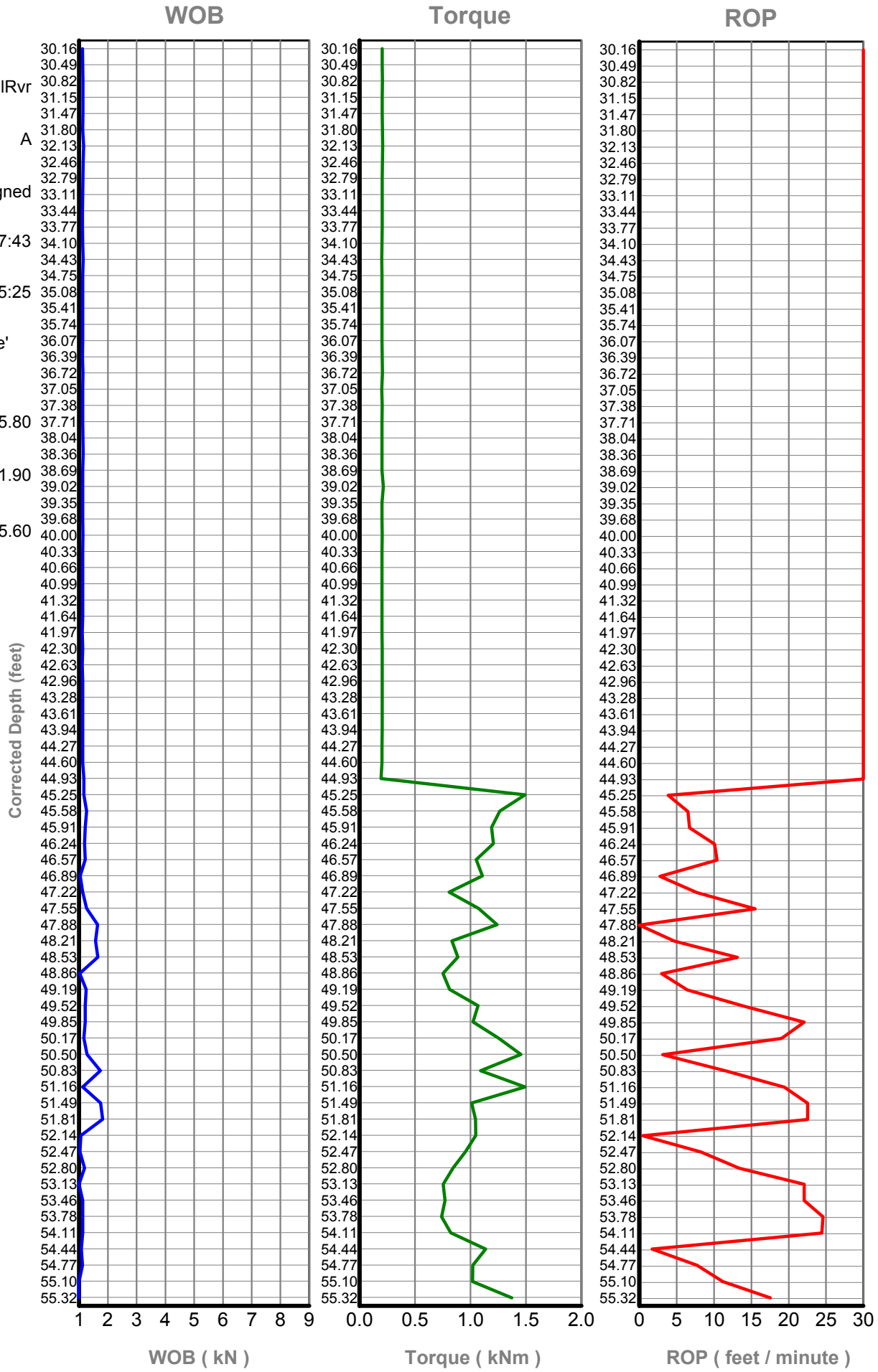
**End Date:**
4/29/2015 23:55:25

**Operator Note:**
'5.6 5.7 b Auto Complete'

**Northing:**
362,115.80

**Easting:**
245,621.90

**Tide (feet):**
5.60



## Hole: K192 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:52:32 | 35.76 | 30.16 | 1,010 | 0.37 | 0.40 | 55.2 |
| 4/29/2015 23:52:32 | 36.09 | 30.49 | 1,021 | 0.37 | 0.40 | 55.8 |
| 4/29/2015 23:52:33 | 36.42 | 30.82 | 1,012 | 0.36 | 0.40 | 55.3 |
| 4/29/2015 23:52:33 | 36.75 | 31.15 | 1,012 | 0.36 | 0.40 | 55.3 |
| 4/29/2015 23:52:33 | 37.07 | 31.47 | 1,006 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:34 | 37.40 | 31.80 | 1,000 | 0.37 | 0.39 | 54.7 |
| 4/29/2015 23:52:34 | 37.73 | 32.13 | 1,000 | 0.37 | 0.39 | 54.7 |
| 4/29/2015 23:52:34 | 38.06 | 32.46 | 1,012 | 0.37 | 0.39 | 55.3 |
| 4/29/2015 23:52:35 | 38.39 | 32.79 | 1,004 | 0.37 | 0.39 | 54.9 |
| 4/29/2015 23:52:35 | 38.71 | 33.11 | 1,004 | 0.37 | 0.39 | 54.9 |
| 4/29/2015 23:52:35 | 39.04 | 33.44 | 1,010 | 0.08 | 0.40 | 55.2 |
| 4/29/2015 23:52:36 | 39.37 | 33.77 | 1,013 | 0.37 | 0.40 | 55.4 |
| 4/29/2015 23:52:37 | 39.70 | 34.10 | 1,018 | 0.32 | 0.40 | 55.7 |
| 4/29/2015 23:52:37 | 40.03 | 34.43 | 1,018 | 0.32 | 0.40 | 55.7 |
| 4/29/2015 23:52:37 | 40.35 | 34.75 | 1,003 | 0.37 | 0.40 | 54.9 |
| 4/29/2015 23:52:38 | 40.68 | 35.08 | 1,022 | 0.37 | 0.40 | 55.9 |
| 4/29/2015 23:52:38 | 41.01 | 35.41 | 1,022 | 0.37 | 0.40 | 55.9 |
| 4/29/2015 23:52:38 | 41.34 | 35.74 | 1,006 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:39 | 41.67 | 36.07 | 1,018 | 0.36 | 0.39 | 55.7 |
| 4/29/2015 23:52:39 | 41.99 | 36.39 | 1,018 | 0.36 | 0.39 | 55.7 |
| 4/29/2015 23:52:39 | 42.32 | 36.72 | 1,015 | 0.37 | 0.40 | 55.5 |
| 4/29/2015 23:52:40 | 42.65 | 37.05 | 1,028 | 0.36 | 0.40 | 56.2 |
| 4/29/2015 23:52:40 | 42.98 | 37.38 | 1,028 | 0.36 | 0.40 | 56.2 |
| 4/29/2015 23:52:40 | 43.31 | 37.71 | 1,012 | 0.37 | 0.39 | 55.3 |
| 4/29/2015 23:52:41 | 43.64 | 38.04 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 23:52:41 | 43.96 | 38.36 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 23:52:41 | 44.29 | 38.69 | 1,015 | 0.37 | 0.40 | 55.5 |
| 4/29/2015 23:52:42 | 44.62 | 39.02 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/29/2015 23:52:42 | 44.95 | 39.35 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/29/2015 23:52:42 | 45.28 | 39.68 | 1,008 | 0.37 | 0.39 | 55.1 |
| 4/29/2015 23:52:43 | 45.60 | 40.00 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 23:52:43 | 45.93 | 40.33 | 1,018 | 0.37 | 0.39 | 55.6 |
| 4/29/2015 23:52:43 | 46.26 | 40.66 | 1,015 | 0.37 | 0.38 | 55.5 |
| 4/29/2015 23:52:44 | 46.59 | 40.99 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/29/2015 23:52:44 | 46.92 | 41.32 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/29/2015 23:52:44 | 47.24 | 41.64 | 1,015 | 0.37 | 0.40 | 55.5 |
| 4/29/2015 23:52:45 | 47.57 | 41.97 | 1,006 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:45 | 47.90 | 42.30 | 1,006 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:45 | 48.23 | 42.63 | 1,006 | 0.37 | 0.39 | 55.0 |
| 4/29/2015 23:52:46 | 48.56 | 42.96 | 1,010 | 0.37 | 0.39 | 55.2 |
| 4/29/2015 23:52:47 | 48.88 | 43.28 | 1,010 | 0.37 | 0.39 | 55.2 |
| 4/29/2015 23:52:47 | 49.21 | 43.61 | 1,015 | 0.37 | 0.40 | 55.5 |
| 4/29/2015 23:52:47 | 49.54 | 43.94 | 1,007 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:48 | 49.87 | 44.27 | 1,007 | 0.37 | 0.40 | 55.0 |
| 4/29/2015 23:52:48 | 50.20 | 44.60 | 1,013 | 0.37 | 0.39 | 55.4 |
| 4/29/2015 23:52:48 | 50.53 | 44.93 | 1,024 | 0.36 | 0.40 | 56.0 |
| 4/29/2015 23:52:49 | 50.85 | 45.25 | 1,012 | 0.35 | 0.41 | 55.3 |
| 4/29/2015 23:52:49 | 51.18 | 45.58 | 1,012 | 0.35 | 0.41 | 55.3 |
| 4/29/2015 23:52:55 | 51.51 | 45.91 | 40 | 4.15 | 0.47 | 2.2 |
| 4/29/2015 23:52:59 | 51.84 | 46.24 | 107 | 6.41 | 0.49 | 5.8 |
| 4/29/2015 23:53:05 | 52.17 | 46.57 | 91 | 4.28 | 0.47 | 5.0 |
| 4/29/2015 23:53:06 | 52.49 | 46.89 | 192 | 4.89 | 0.45 | 10.5 |
| 4/29/2015 23:53:08 | 52.82 | 47.22 | 298 | 4.26 | 0.45 | 16.3 |
| 4/29/2015 23:53:09 | 53.15 | 47.55 | 327 | 3.58 | 0.44 | 17.9 |
| 4/29/2015 23:53:10 | 53.48 | 47.88 | 381 | 3.43 | 0.42 | 20.8 |
| 4/29/2015 23:53:10 | 53.81 | 48.21 | 442 | 2.61 | 0.42 | 24.1 |
| 4/29/2015 23:53:11 | 54.13 | 48.53 | 517 | 2.91 | 0.43 | 28.3 |
| 4/29/2015 23:53:12 | 54.46 | 48.86 | 535 | 3.57 | 0.48 | 29.3 |
| 4/29/2015 23:53:22 | 54.79 | 49.19 | 9 | 3.64 | 0.45 | 0.5 |
| 4/29/2015 23:53:23 | 55.12 | 49.52 | 166 | 3.96 | 0.46 | 9.1 |
| 4/29/2015 23:53:24 | 55.45 | 49.85 | 307 | 4.68 | 0.46 | 16.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:53:25 | 55.77 | 50.17 | 315 | 3.49 | 0.44 | 17.2 |
| 4/29/2015 | 23:53:26 | 56.10 | 50.50 | 334 | 3.96 | 0.48 | 18.2 |
| 4/29/2015 | 23:53:29 | 56.43 | 50.83 | 157 | 6.77 | 0.48 | 8.6 |
| 4/29/2015 | 23:54:06 | 56.76 | 51.16 | 0 | 4.10 | 0.46 | 0.0 |
| 4/29/2015 | 23:54:08 | 57.09 | 51.49 | 180 | 4.66 | 0.46 | 9.8 |
| 4/29/2015 | 23:54:09 | 57.41 | 51.81 | 252 | 3.60 | 0.44 | 13.8 |
| 4/29/2015 | 23:54:10 | 57.74 | 52.14 | 306 | 3.98 | 0.43 | 16.7 |
| 4/29/2015 | 23:54:11 | 58.07 | 52.47 | 371 | 4.12 | 0.44 | 20.3 |
| 4/29/2015 | 23:54:11 | 58.40 | 52.80 | 402 | 3.07 | 0.43 | 22.0 |
| 4/29/2015 | 23:54:12 | 58.73 | 53.13 | 448 | 2.80 | 0.43 | 24.5 |
| 4/29/2015 | 23:54:13 | 59.06 | 53.46 | 542 | 2.57 | 0.43 | 29.6 |
| 4/29/2015 | 23:54:13 | 59.38 | 53.78 | 542 | 2.46 | 0.43 | 29.6 |
| 4/29/2015 | 23:54:16 | 59.71 | 54.11 | 258 | 3.64 | 0.44 | 14.1 |
| 4/29/2015 | 23:54:16 | 60.04 | 54.44 | 240 | 3.77 | 0.45 | 13.1 |
| 4/29/2015 | 23:54:18 | 60.37 | 54.77 | 267 | 3.01 | 0.45 | 14.6 |
| 4/29/2015 | 23:54:19 | 60.70 | 55.10 | 315 | 3.61 | 0.44 | 17.2 |
| 4/29/2015 | 23:54:19 | 60.77 | 55.17 | 298 | 5.06 | 0.45 | 16.3 |

## K192 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:50:54

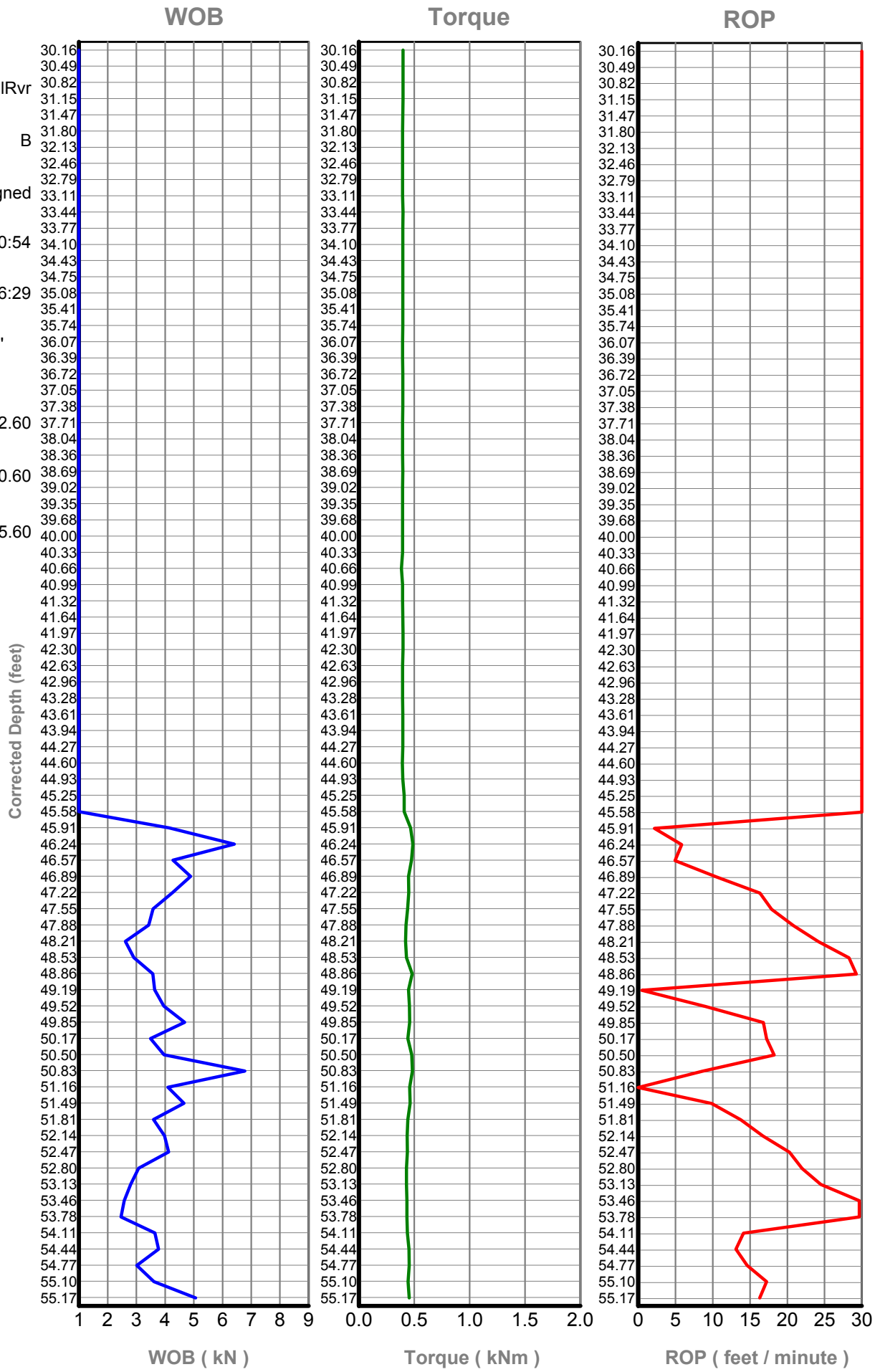
**End Date:**
4/29/2015 23:56:29

**Operator Note:**
'5.6 5.7b Auto Complete'

**Northing:**
362,162.60

**Easting:**
245,680.60

**Tide (feet):**
5.60



## Hole: K193 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 23:50:15 | 35.76 | 30.16 | 1,080 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:50:15 | 36.09 | 30.49 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 23:50:16 | 36.42 | 30.82 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:16 | 36.75 | 31.15 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:16 | 37.07 | 31.47 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:17 | 37.40 | 31.80 | 1,069 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:17 | 37.73 | 32.13 | 1,069 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:17 | 38.06 | 32.46 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:18 | 38.39 | 32.79 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:18 | 38.71 | 33.11 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 23:50:18 | 39.04 | 33.44 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:19 | 39.37 | 33.77 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:19 | 39.70 | 34.10 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:19 | 40.03 | 34.43 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:20 | 40.35 | 34.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:20 | 40.68 | 35.08 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:20 | 41.01 | 35.41 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:21 | 41.34 | 35.74 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:21 | 41.67 | 36.07 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 23:50:21 | 41.99 | 36.39 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:22 | 42.32 | 36.72 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:22 | 42.65 | 37.05 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:50:22 | 42.98 | 37.38 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:50:22 | 43.31 | 37.71 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:50:23 | 43.64 | 38.04 | 1,065 | 1.14 | 0.29 | 58.3 |
| 4/29/2015 23:50:23 | 43.96 | 38.36 | 1,065 | 1.14 | 0.29 | 58.3 |
| 4/29/2015 23:50:23 | 44.29 | 38.69 | 1,069 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:24 | 44.62 | 39.02 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:50:24 | 44.95 | 39.35 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/29/2015 23:50:24 | 45.28 | 39.68 | 1,069 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 23:50:25 | 45.60 | 40.00 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:50:26 | 45.93 | 40.33 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 23:50:25 | 46.26 | 40.66 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 23:50:26 | 46.59 | 40.99 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 23:50:27 | 46.92 | 41.32 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 23:50:26 | 47.24 | 41.64 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/29/2015 23:50:27 | 47.57 | 41.97 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:28 | 47.90 | 42.30 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:28 | 48.23 | 42.63 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 23:50:28 | 48.56 | 42.96 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/29/2015 23:50:28 | 48.88 | 43.28 | 1,058 | 1.14 | 0.29 | 57.8 |
| 4/29/2015 23:50:29 | 49.21 | 43.61 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:29 | 49.54 | 43.94 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 23:50:29 | 49.87 | 44.27 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:30 | 50.20 | 44.60 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:30 | 50.53 | 44.93 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:30 | 50.85 | 45.25 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 23:50:31 | 51.18 | 45.58 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/29/2015 23:50:31 | 51.51 | 45.91 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/29/2015 23:50:42 | 51.84 | 46.24 | 27 | 1.14 | 0.29 | 1.5 |
| 4/29/2015 23:50:43 | 52.17 | 46.57 | 129 | 1.14 | 0.29 | 7.1 |
| 4/29/2015 23:50:49 | 52.49 | 46.89 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 23:50:56 | 52.82 | 47.22 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 23:50:51 | 53.15 | 47.55 | 263 | 1.14 | 0.29 | 14.4 |
| 4/29/2015 23:50:52 | 53.48 | 47.88 | 411 | 1.14 | 0.29 | 22.5 |
| 4/29/2015 23:50:54 | 53.81 | 48.21 | 305 | 1.14 | 0.29 | 16.7 |
| 4/29/2015 23:50:55 | 54.13 | 48.53 | 271 | 1.14 | 0.29 | 14.8 |
| 4/29/2015 23:51:09 | 54.46 | 48.86 | 59 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 23:51:10 | 54.79 | 49.19 | 104 | 1.14 | 0.29 | 5.7 |
| 4/29/2015 23:51:10 | 55.12 | 49.52 | 210 | 1.14 | 0.29 | 11.5 |
| 4/29/2015 23:51:11 | 55.45 | 49.85 | 437 | 1.14 | 0.29 | 23.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 23:51:24 | 55.77 | 50.17 | 42 | 1.14 | 0.29 | 2.3 |
| 4/29/2015 | 23:51:25 | 56.10 | 50.50 | 209 | 1.14 | 0.29 | 11.4 |
| 4/29/2015 | 23:51:26 | 56.43 | 50.83 | 276 | 1.14 | 0.29 | 15.1 |
| 4/29/2015 | 23:51:27 | 56.76 | 51.16 | 333 | 1.14 | 0.29 | 18.2 |
| 4/29/2015 | 23:51:51 | 57.09 | 51.49 | 47 | 1.14 | 0.29 | 2.6 |
| 4/29/2015 | 23:51:51 | 57.41 | 51.81 | 136 | 1.14 | 0.29 | 7.4 |
| 4/29/2015 | 23:51:52 | 57.74 | 52.14 | 249 | 1.14 | 0.29 | 13.6 |
| 4/29/2015 | 23:51:52 | 58.07 | 52.47 | 360 | 1.14 | 0.29 | 19.7 |
| 4/29/2015 | 23:51:53 | 58.40 | 52.80 | 477 | 1.14 | 0.29 | 26.1 |
| 4/29/2015 | 23:52:03 | 58.73 | 53.13 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 | 23:52:04 | 59.06 | 53.46 | 57 | 1.14 | 0.29 | 3.1 |
| 4/29/2015 | 23:52:04 | 59.38 | 53.78 | 57 | 1.14 | 0.29 | 3.1 |
| 4/29/2015 | 23:52:06 | 59.71 | 54.11 | 226 | 1.14 | 0.29 | 12.4 |
| 4/29/2015 | 23:52:09 | 60.04 | 54.44 | 127 | 1.14 | 0.29 | 6.9 |
| 4/29/2015 | 23:52:12 | 60.37 | 54.77 | 122 | 1.14 | 0.29 | 6.7 |
| 4/29/2015 | 23:52:15 | 60.70 | 55.10 | 97 | 1.14 | 0.29 | 5.3 |
| 4/29/2015 | 23:52:15 | 60.78 | 55.18 | 97 | 1.14 | 0.29 | 5.3 |

## K193 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 23:49:04

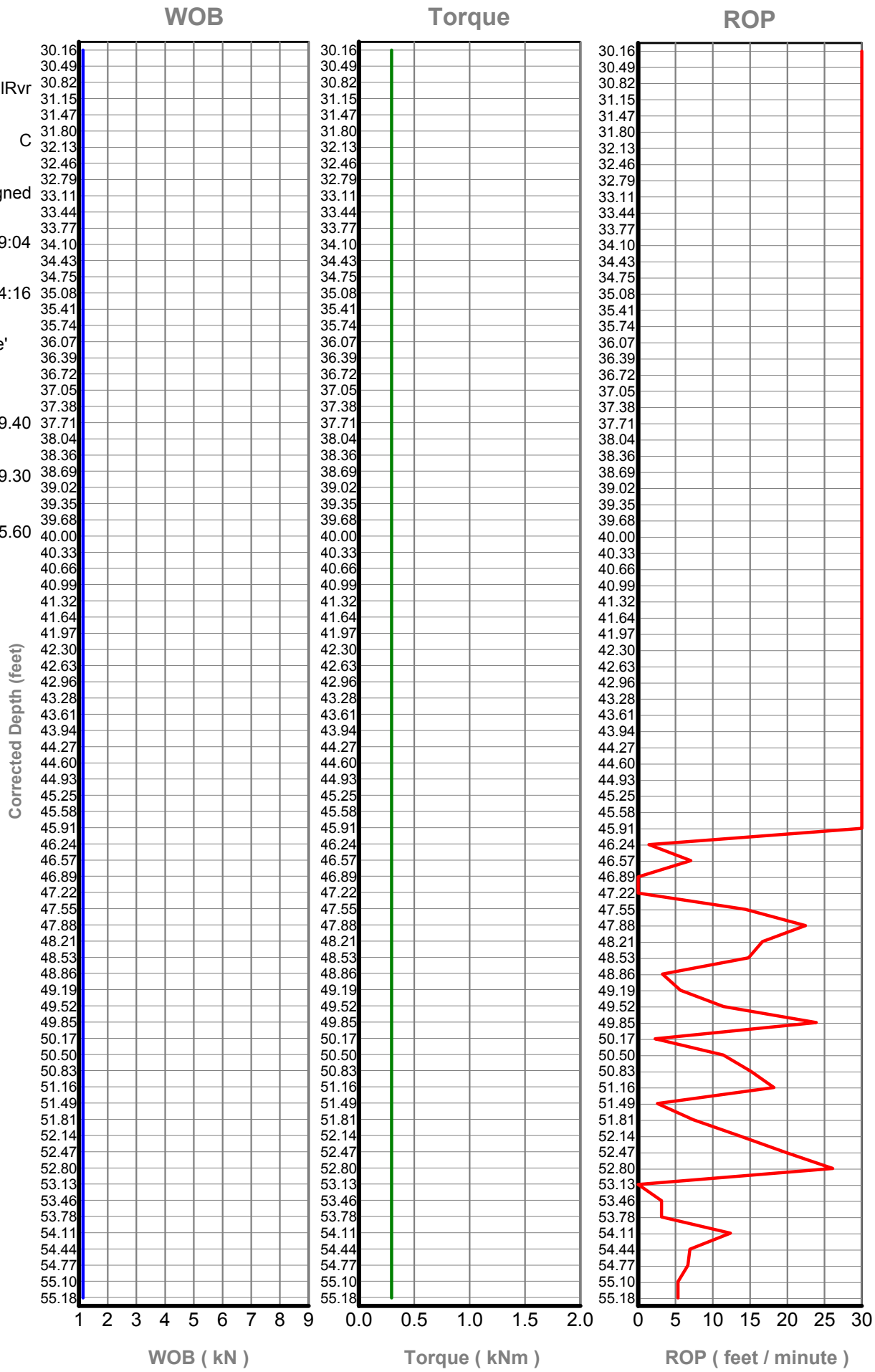
**End Date:**
4/29/2015 23:54:16

**Operator Note:**
'5.6 5.7 c Auto Complete'

**Northing:**
362,209.40

**Easting:**
245,739.30

**Tide (feet):**
5.60



## Hole: K195 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:11:49 | 36.42 | 30.02 | 893 | 1.16 | 0.15 | 48.8 |
| 4/30/2015 10:11:49 | 36.75 | 30.35 | 893 | 1.16 | 0.15 | 48.8 |
| 4/30/2015 10:11:49 | 37.07 | 30.67 | 890 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 10:11:50 | 37.40 | 31.00 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 10:11:50 | 37.73 | 31.33 | 890 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 10:11:51 | 38.06 | 31.66 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 10:11:51 | 38.39 | 31.99 | 896 | 1.15 | 0.15 | 49.0 |
| 4/30/2015 10:11:51 | 38.71 | 32.31 | 890 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 10:11:52 | 39.04 | 32.64 | 893 | 1.17 | 0.15 | 48.8 |
| 4/30/2015 10:11:52 | 39.37 | 32.97 | 886 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:11:53 | 39.70 | 33.30 | 886 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:11:53 | 40.03 | 33.63 | 897 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 10:11:54 | 40.35 | 33.95 | 894 | 1.15 | 0.15 | 48.9 |
| 4/30/2015 10:11:54 | 40.68 | 34.28 | 894 | 1.16 | 0.15 | 48.9 |
| 4/30/2015 10:11:55 | 41.01 | 34.61 | 894 | 1.16 | 0.15 | 48.9 |
| 4/30/2015 10:11:55 | 41.34 | 34.94 | 891 | 1.13 | 0.15 | 48.7 |
| 4/30/2015 10:11:55 | 41.67 | 35.27 | 896 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 10:11:56 | 41.99 | 35.59 | 887 | 1.14 | 0.15 | 48.5 |
| 4/30/2015 10:11:56 | 42.32 | 35.92 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:11:57 | 42.65 | 36.25 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:11:57 | 42.98 | 36.58 | 879 | 1.15 | 0.15 | 48.1 |
| 4/30/2015 10:11:57 | 43.31 | 36.91 | 887 | 1.16 | 0.15 | 48.5 |
| 4/30/2015 10:11:58 | 43.64 | 37.24 | 885 | 1.13 | 0.17 | 48.4 |
| 4/30/2015 10:11:58 | 43.96 | 37.56 | 885 | 1.13 | 0.17 | 48.4 |
| 4/30/2015 10:11:58 | 44.29 | 37.89 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:11:59 | 44.62 | 38.22 | 885 | 1.13 | 0.15 | 48.4 |
| 4/30/2015 10:11:59 | 44.95 | 38.55 | 893 | 1.15 | 0.15 | 48.8 |
| 4/30/2015 10:12:00 | 45.28 | 38.88 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:12:00 | 45.60 | 39.20 | 885 | 1.15 | 0.15 | 48.4 |
| 4/30/2015 10:12:00 | 45.93 | 39.53 | 882 | 1.15 | 0.15 | 48.2 |
| 4/30/2015 10:12:01 | 46.26 | 39.86 | 876 | 1.16 | 0.15 | 47.9 |
| 4/30/2015 10:12:01 | 46.59 | 40.19 | 885 | 1.13 | 0.16 | 48.4 |
| 4/30/2015 10:12:02 | 46.92 | 40.52 | 885 | 1.13 | 0.16 | 48.4 |
| 4/30/2015 10:12:02 | 47.24 | 40.84 | 869 | 1.14 | 0.15 | 47.5 |
| 4/30/2015 10:12:02 | 47.57 | 41.17 | 880 | 1.13 | 0.15 | 48.1 |
| 4/30/2015 10:12:03 | 47.90 | 41.50 | 880 | 1.15 | 0.15 | 48.1 |
| 4/30/2015 10:12:04 | 48.23 | 41.83 | 888 | 1.14 | 0.15 | 48.6 |
| 4/30/2015 10:12:04 | 48.56 | 42.16 | 888 | 1.14 | 0.15 | 48.6 |
| 4/30/2015 10:12:04 | 48.88 | 42.48 | 877 | 1.14 | 0.15 | 47.9 |
| 4/30/2015 10:12:05 | 49.21 | 42.81 | 890 | 1.14 | 0.15 | 48.7 |
| 4/30/2015 10:12:05 | 49.54 | 43.14 | 871 | 1.14 | 0.15 | 47.6 |
| 4/30/2015 10:12:06 | 49.87 | 43.47 | 871 | 1.14 | 0.15 | 47.6 |
| 4/30/2015 10:12:06 | 50.20 | 43.80 | 882 | 1.13 | 0.15 | 48.2 |
| 4/30/2015 10:12:06 | 50.53 | 44.13 | 876 | 1.13 | 0.15 | 47.9 |
| 4/30/2015 10:12:07 | 50.85 | 44.45 | 876 | 1.15 | 0.15 | 47.9 |
| 4/30/2015 10:12:07 | 51.18 | 44.78 | 871 | 1.15 | 0.15 | 47.6 |
| 4/30/2015 10:12:08 | 51.51 | 45.11 | 871 | 1.15 | 0.15 | 47.6 |
| 4/30/2015 10:12:08 | 51.84 | 45.44 | 881 | 1.15 | 0.15 | 48.2 |
| 4/30/2015 10:12:08 | 52.17 | 45.77 | 870 | 1.14 | 0.15 | 47.6 |
| 4/30/2015 10:12:09 | 52.49 | 46.09 | 870 | 1.15 | 0.15 | 47.6 |
| 4/30/2015 10:12:09 | 52.82 | 46.42 | 870 | 1.17 | 0.15 | 47.6 |
| 4/30/2015 10:12:10 | 53.15 | 46.75 | 870 | 1.17 | 0.15 | 47.6 |
| 4/30/2015 10:12:10 | 53.48 | 47.08 | 867 | 1.24 | 0.15 | 47.4 |
| 4/30/2015 10:12:21 | 53.81 | 47.41 | 14 | 1.14 | 0.73 | 0.8 |
| 4/30/2015 10:12:22 | 54.13 | 47.73 | 220 | 1.14 | 0.90 | 12.0 |
| 4/30/2015 10:12:22 | 54.46 | 48.06 | 308 | 1.19 | 0.91 | 16.9 |
| 4/30/2015 10:12:27 | 54.79 | 48.39 | 73 | 1.13 | 1.41 | 4.0 |
| 4/30/2015 10:12:31 | 55.12 | 48.72 | 69 | 1.13 | 1.44 | 3.8 |
| 4/30/2015 10:12:38 | 55.45 | 49.05 | 56 | 1.10 | 1.49 | 3.1 |
| 4/30/2015 10:12:45 | 55.77 | 49.37 | 46 | 1.13 | 1.30 | 2.5 |
| 4/30/2015 10:12:53 | 56.10 | 49.70 | 40 | 1.09 | 1.61 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:13:02 | 56.43 | 50.03 | 38 | 1.10 | 1.21 | 2.1 |
| 4/30/2015 | 10:13:07 | 56.59 | 50.19 | 35 | 0.65 | 1.30 | 1.9 |

## K195 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:10:04

**End Date:**
4/30/2015 10:15:01

**Operator Note:**
'6.4 6.3 a Auto Complete'

**Northing:**
361,100.34

**Easting:**
244,482.90

**Tide (feet):**
6.40



## Hole: K196 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:25:20 | 36.75 | 30.25 | 917 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:20 | 37.07 | 30.57 | 914 | 1.15 | 0.15 | 50.0 |
| 4/30/2015 10:25:21 | 37.40 | 30.90 | 914 | 1.14 | 0.15 | 50.0 |
| 4/30/2015 10:25:21 | 37.73 | 31.23 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 10:25:22 | 38.06 | 31.56 | 922 | 1.14 | 0.15 | 50.4 |
| 4/30/2015 10:25:22 | 38.39 | 31.89 | 919 | 1.13 | 0.15 | 50.3 |
| 4/30/2015 10:25:22 | 38.71 | 32.21 | 916 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:23 | 39.04 | 32.54 | 919 | 1.15 | 0.15 | 50.3 |
| 4/30/2015 10:25:23 | 39.37 | 32.87 | 919 | 1.15 | 0.15 | 50.3 |
| 4/30/2015 10:25:23 | 39.70 | 33.20 | 919 | 1.15 | 0.15 | 50.3 |
| 4/30/2015 10:25:24 | 40.03 | 33.53 | 914 | 1.16 | 0.15 | 50.0 |
| 4/30/2015 10:25:24 | 40.35 | 33.85 | 917 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:25 | 40.68 | 34.18 | 917 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:25 | 41.01 | 34.51 | 917 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:26 | 41.34 | 34.84 | 909 | 1.15 | 0.15 | 49.7 |
| 4/30/2015 10:25:26 | 41.67 | 35.17 | 914 | 1.13 | 0.15 | 50.0 |
| 4/30/2015 10:25:27 | 41.99 | 35.49 | 914 | 1.13 | 0.15 | 50.0 |
| 4/30/2015 10:25:27 | 42.32 | 35.82 | 911 | 1.14 | 0.15 | 49.8 |
| 4/30/2015 10:25:27 | 42.65 | 36.15 | 911 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 10:25:28 | 42.98 | 36.48 | 911 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 10:25:28 | 43.31 | 36.81 | 911 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 10:25:28 | 43.64 | 37.14 | 914 | 1.14 | 0.15 | 50.0 |
| 4/30/2015 10:25:29 | 43.96 | 37.46 | 911 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 10:25:29 | 44.29 | 37.79 | 916 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:30 | 44.62 | 38.12 | 916 | 1.15 | 0.15 | 50.1 |
| 4/30/2015 10:25:30 | 44.95 | 38.45 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:30 | 45.28 | 38.78 | 910 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 10:25:31 | 45.60 | 39.10 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:31 | 45.93 | 39.43 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:31 | 46.26 | 39.76 | 908 | 1.13 | 0.15 | 49.6 |
| 4/30/2015 10:25:32 | 46.59 | 40.09 | 900 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 10:25:32 | 46.92 | 40.42 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:33 | 47.24 | 40.74 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:33 | 47.57 | 41.07 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:33 | 47.90 | 41.40 | 905 | 1.14 | 0.15 | 49.5 |
| 4/30/2015 10:25:34 | 48.23 | 41.73 | 897 | 1.15 | 0.15 | 49.1 |
| 4/30/2015 10:25:34 | 48.56 | 42.06 | 897 | 1.15 | 0.15 | 49.1 |
| 4/30/2015 10:25:34 | 48.88 | 42.38 | 905 | 1.13 | 0.14 | 49.5 |
| 4/30/2015 10:25:35 | 49.21 | 42.71 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:36 | 49.54 | 43.04 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 10:25:36 | 49.87 | 43.37 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 10:25:36 | 50.20 | 43.70 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 10:25:37 | 50.53 | 44.03 | 908 | 1.15 | 0.14 | 49.6 |
| 4/30/2015 10:25:37 | 50.85 | 44.35 | 910 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 10:25:38 | 51.18 | 44.68 | 910 | 1.15 | 0.15 | 49.8 |
| 4/30/2015 10:25:38 | 51.51 | 45.01 | 902 | 1.14 | 0.15 | 49.3 |
| 4/30/2015 10:25:38 | 51.84 | 45.34 | 899 | 1.16 | 0.14 | 49.2 |
| 4/30/2015 10:25:39 | 52.17 | 45.67 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 10:25:39 | 52.49 | 45.99 | 875 | 1.15 | 0.14 | 47.8 |
| 4/30/2015 10:25:40 | 52.82 | 46.32 | 875 | 1.15 | 0.14 | 47.8 |
| 4/30/2015 10:25:40 | 53.15 | 46.65 | 875 | 1.14 | 0.14 | 47.8 |
| 4/30/2015 10:25:40 | 53.48 | 46.98 | 882 | 1.16 | 0.15 | 48.2 |
| 4/30/2015 10:25:41 | 53.81 | 47.31 | 887 | 1.15 | 0.14 | 48.5 |
| 4/30/2015 10:25:41 | 54.13 | 47.63 | 887 | 1.15 | 0.14 | 48.5 |
| 4/30/2015 10:25:46 | 54.46 | 47.96 | 0 | 1.19 | 1.11 | 0.0 |
| 4/30/2015 10:25:49 | 54.79 | 48.29 | 126 | 1.64 | 1.24 | 6.9 |
| 4/30/2015 10:25:51 | 55.12 | 48.62 | 157 | 1.14 | 1.10 | 8.6 |
| 4/30/2015 10:25:52 | 55.45 | 48.95 | 176 | 1.64 | 1.17 | 9.6 |
| 4/30/2015 10:25:54 | 55.77 | 49.27 | 263 | 1.10 | 1.20 | 14.4 |
| 4/30/2015 10:26:00 | 56.10 | 49.60 | 35 | 1.11 | 1.06 | 1.9 |
| 4/30/2015 10:26:10 | 56.43 | 49.93 | 38 | 1.10 | 0.90 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:26:20 | 56.76 | 50.26 | 34 | 1.11 | 0.91 | 1.9 |
| 4/30/2015 | 10:26:27 | 57.09 | 50.59 | 51 | 1.17 | 1.01 | 2.8 |
| 4/30/2015 | 10:26:34 | 57.34 | 50.84 | 47 | 0.75 | 0.96 | 2.5 |

## K196 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:23:40

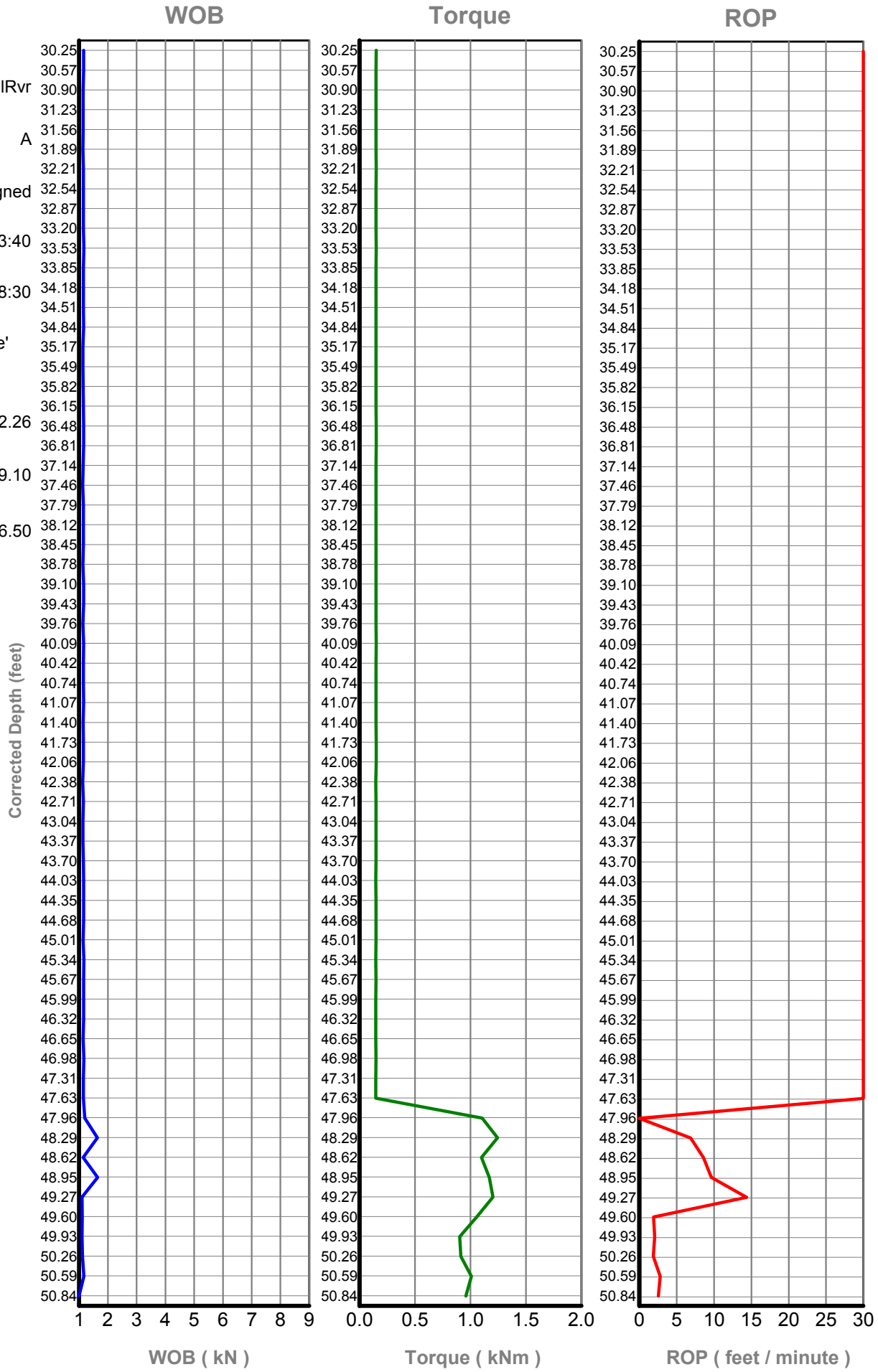
**End Date:**
4/30/2015 10:28:30

**Operator Note:**
'6.5 6.4 a Auto Complete'

**Northing:**
361,142.26

**Easting:**
244,539.10

**Tide (feet):**
6.50



## Hole: K197 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:37:51 | 36.75 | 30.25 | 905 | 1.12 | 0.15 | 49.5 |
| 4/30/2015 10:37:52 | 37.07 | 30.57 | 905 | 1.12 | 0.15 | 49.5 |
| 4/30/2015 10:37:52 | 37.40 | 30.90 | 914 | 1.12 | 0.12 | 50.0 |
| 4/30/2015 10:37:52 | 37.73 | 31.23 | 923 | 1.11 | 0.15 | 50.5 |
| 4/30/2015 10:37:53 | 38.06 | 31.56 | 923 | 1.11 | 0.15 | 50.5 |
| 4/30/2015 10:37:53 | 38.39 | 31.89 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 10:37:53 | 38.71 | 32.21 | 911 | 1.11 | 0.15 | 49.8 |
| 4/30/2015 10:37:54 | 39.04 | 32.54 | 919 | 1.11 | 0.15 | 50.3 |
| 4/30/2015 10:37:55 | 39.37 | 32.87 | 919 | 1.11 | 0.15 | 50.3 |
| 4/30/2015 10:37:54 | 39.70 | 33.20 | 911 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 10:37:55 | 40.03 | 33.53 | 916 | 1.12 | 0.15 | 50.1 |
| 4/30/2015 10:37:56 | 40.35 | 33.85 | 911 | 1.13 | 0.14 | 49.8 |
| 4/30/2015 10:37:56 | 40.68 | 34.18 | 919 | 1.11 | 0.15 | 50.3 |
| 4/30/2015 10:37:57 | 41.01 | 34.51 | 919 | 1.11 | 0.15 | 50.3 |
| 4/30/2015 10:37:57 | 41.34 | 34.84 | 911 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 10:37:57 | 41.67 | 35.17 | 903 | 1.11 | 0.15 | 49.4 |
| 4/30/2015 10:37:58 | 41.99 | 35.49 | 909 | 1.13 | 0.15 | 49.7 |
| 4/30/2015 10:37:58 | 42.32 | 35.82 | 909 | 1.13 | 0.15 | 49.7 |
| 4/30/2015 10:37:58 | 42.65 | 36.15 | 911 | 1.11 | 0.15 | 49.8 |
| 4/30/2015 10:37:59 | 42.98 | 36.48 | 903 | 1.12 | 0.15 | 49.4 |
| 4/30/2015 10:37:59 | 43.31 | 36.81 | 906 | 1.11 | 0.15 | 49.5 |
| 4/30/2015 10:38:00 | 43.64 | 37.14 | 906 | 1.11 | 0.15 | 49.5 |
| 4/30/2015 10:38:00 | 43.96 | 37.46 | 914 | 1.12 | 0.15 | 50.0 |
| 4/30/2015 10:38:00 | 44.29 | 37.79 | 908 | 1.12 | 0.15 | 49.6 |
| 4/30/2015 10:38:01 | 44.62 | 38.12 | 905 | 1.23 | 0.15 | 49.5 |
| 4/30/2015 10:38:01 | 44.95 | 38.45 | 905 | 1.23 | 0.15 | 49.5 |
| 4/30/2015 10:38:01 | 45.28 | 38.78 | 910 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 10:38:02 | 45.60 | 39.10 | 905 | 1.12 | 0.15 | 49.5 |
| 4/30/2015 10:38:02 | 45.93 | 39.43 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 10:38:03 | 46.26 | 39.76 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 10:38:03 | 46.59 | 40.09 | 893 | 1.14 | 0.15 | 48.8 |
| 4/30/2015 10:38:03 | 46.92 | 40.42 | 887 | 1.14 | 0.15 | 48.5 |
| 4/30/2015 10:38:04 | 47.24 | 40.74 | 873 | 1.13 | 0.15 | 47.8 |
| 4/30/2015 10:38:04 | 47.57 | 41.07 | 876 | 1.14 | 0.15 | 47.9 |
| 4/30/2015 10:38:05 | 47.90 | 41.40 | 876 | 1.14 | 0.15 | 47.9 |
| 4/30/2015 10:38:05 | 48.23 | 41.73 | 870 | 1.13 | 0.15 | 47.6 |
| 4/30/2015 10:38:06 | 48.56 | 42.06 | 870 | 1.13 | 0.14 | 47.6 |
| 4/30/2015 10:38:06 | 48.88 | 42.38 | 870 | 1.13 | 0.14 | 47.6 |
| 4/30/2015 10:38:07 | 49.21 | 42.71 | 870 | 1.14 | 0.15 | 47.6 |
| 4/30/2015 10:38:07 | 49.54 | 43.04 | 870 | 1.14 | 0.15 | 47.6 |
| 4/30/2015 10:38:07 | 49.87 | 43.37 | 872 | 1.14 | 0.15 | 47.7 |
| 4/30/2015 10:38:08 | 50.20 | 43.70 | 864 | 1.14 | 0.15 | 47.3 |
| 4/30/2015 10:38:08 | 50.53 | 44.03 | 861 | 1.15 | 0.15 | 47.1 |
| 4/30/2015 10:38:09 | 50.85 | 44.35 | 861 | 1.13 | 0.15 | 47.1 |
| 4/30/2015 10:38:09 | 51.18 | 44.68 | 861 | 1.13 | 0.15 | 47.1 |
| 4/30/2015 10:38:09 | 51.51 | 45.01 | 859 | 1.14 | 0.12 | 46.9 |
| 4/30/2015 10:38:10 | 51.84 | 45.34 | 856 | 1.12 | 0.16 | 46.8 |
| 4/30/2015 10:38:10 | 52.17 | 45.67 | 843 | 1.14 | 0.15 | 46.1 |
| 4/30/2015 10:38:11 | 52.49 | 45.99 | 851 | 1.14 | 0.15 | 46.5 |
| 4/30/2015 10:38:11 | 52.82 | 46.32 | 851 | 1.14 | 0.15 | 46.5 |
| 4/30/2015 10:38:11 | 53.15 | 46.65 | 835 | 1.18 | 0.15 | 45.7 |
| 4/30/2015 10:38:29 | 53.48 | 46.98 | 32 | 1.17 | 1.00 | 1.7 |
| 4/30/2015 10:38:41 | 53.81 | 47.31 | 28 | 1.04 | 0.91 | 1.5 |
| 4/30/2015 10:38:52 | 54.13 | 47.63 | 32 | 1.09 | 0.92 | 1.7 |
| 4/30/2015 10:39:03 | 54.46 | 47.96 | 32 | 1.08 | 0.90 | 1.7 |
| 4/30/2015 10:39:08 | 54.59 | 48.09 | 32 | 0.64 | 1.23 | 1.7 |

## K197 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:36:18

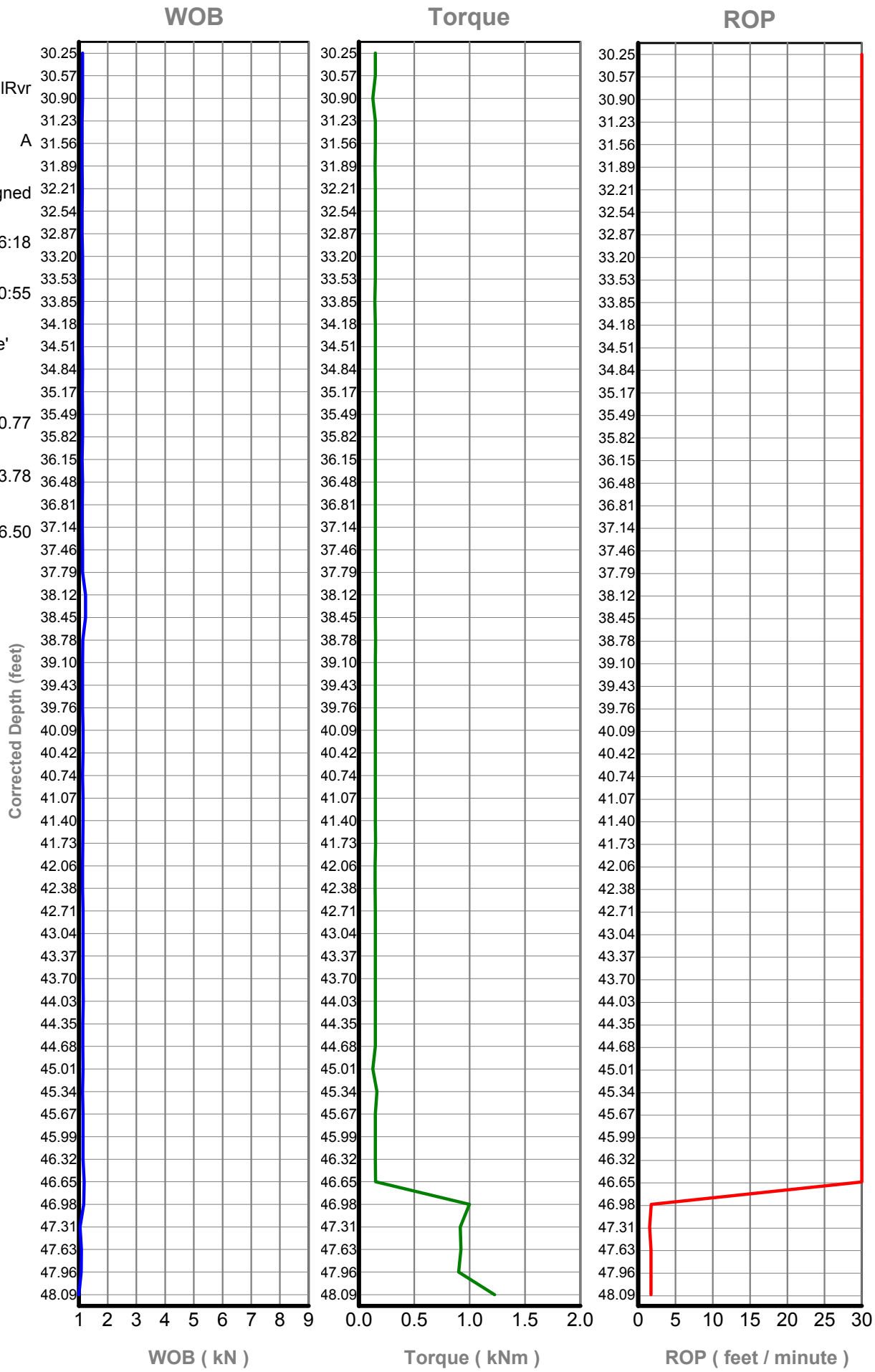
**End Date:**
4/30/2015 10:40:55

**Operator Note:**
'6.5 6.5 a Auto Complete'

**Northing:**
361,190.77

**Easting:**
244,603.78

**Tide (feet):**
6.50



## Hole: K198 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:53:50 | 36.42 | 30.32 | 899 | 1.19 | 0.15 | 49.2 |
| 4/30/2015 11:53:51 | 36.75 | 30.65 | 896 | 1.18 | 0.16 | 49.0 |
| 4/30/2015 11:53:51 | 37.07 | 30.97 | 896 | 1.18 | 0.16 | 49.0 |
| 4/30/2015 11:53:51 | 37.40 | 31.30 | 917 | 1.18 | 0.15 | 50.2 |
| 4/30/2015 11:53:52 | 37.73 | 31.63 | 927 | 1.18 | 0.15 | 50.7 |
| 4/30/2015 11:53:52 | 38.06 | 31.96 | 912 | 1.19 | 0.15 | 49.9 |
| 4/30/2015 11:53:53 | 38.39 | 32.29 | 912 | 1.19 | 0.15 | 49.9 |
| 4/30/2015 11:53:53 | 38.71 | 32.61 | 918 | 1.17 | 0.15 | 50.2 |
| 4/30/2015 11:53:53 | 39.04 | 32.94 | 918 | 1.19 | 0.15 | 50.2 |
| 4/30/2015 11:53:54 | 39.37 | 33.27 | 920 | 1.21 | 0.15 | 50.3 |
| 4/30/2015 11:53:55 | 39.70 | 33.60 | 920 | 1.21 | 0.15 | 50.3 |
| 4/30/2015 11:53:55 | 40.03 | 33.93 | 917 | 1.19 | 0.15 | 50.1 |
| 4/30/2015 11:53:55 | 40.35 | 34.25 | 891 | 1.19 | 0.15 | 48.7 |
| 4/30/2015 11:53:56 | 40.68 | 34.58 | 891 | 1.20 | 0.15 | 48.7 |
| 4/30/2015 11:53:56 | 41.01 | 34.91 | 891 | 1.20 | 0.15 | 48.7 |
| 4/30/2015 11:53:56 | 41.34 | 35.24 | 895 | 1.17 | 0.16 | 48.9 |
| 4/30/2015 11:53:57 | 41.67 | 35.57 | 895 | 1.18 | 0.16 | 48.9 |
| 4/30/2015 11:53:57 | 41.99 | 35.89 | 920 | 1.19 | 0.15 | 50.3 |
| 4/30/2015 11:53:58 | 42.32 | 36.22 | 920 | 1.19 | 0.15 | 50.3 |
| 4/30/2015 11:53:58 | 42.65 | 36.55 | 907 | 1.19 | 0.15 | 49.6 |
| 4/30/2015 11:53:58 | 42.98 | 36.88 | 904 | 1.19 | 0.16 | 49.4 |
| 4/30/2015 11:53:59 | 43.31 | 37.21 | 921 | 1.15 | 0.15 | 50.4 |
| 4/30/2015 11:53:59 | 43.64 | 37.54 | 921 | 1.15 | 0.15 | 50.4 |
| 4/30/2015 11:53:59 | 43.96 | 37.86 | 925 | 1.17 | 0.15 | 50.6 |
| 4/30/2015 11:54:00 | 44.29 | 38.19 | 911 | 1.19 | 0.15 | 49.8 |
| 4/30/2015 11:54:00 | 44.62 | 38.52 | 911 | 1.18 | 0.15 | 49.8 |
| 4/30/2015 11:54:01 | 44.95 | 38.85 | 911 | 1.18 | 0.15 | 49.8 |
| 4/30/2015 11:54:01 | 45.28 | 39.18 | 908 | 1.19 | 0.16 | 49.6 |
| 4/30/2015 11:54:01 | 45.60 | 39.50 | 908 | 1.19 | 0.15 | 49.6 |
| 4/30/2015 11:54:02 | 45.93 | 39.83 | 894 | 1.19 | 0.15 | 48.9 |
| 4/30/2015 11:54:02 | 46.26 | 40.16 | 894 | 1.19 | 0.15 | 48.9 |
| 4/30/2015 11:54:02 | 46.59 | 40.49 | 909 | 1.17 | 0.15 | 49.7 |
| 4/30/2015 11:54:03 | 46.92 | 40.82 | 906 | 1.19 | 0.15 | 49.5 |
| 4/30/2015 11:54:03 | 47.24 | 41.14 | 906 | 1.18 | 0.15 | 49.5 |
| 4/30/2015 11:54:04 | 47.57 | 41.47 | 903 | 1.19 | 0.15 | 49.4 |
| 4/30/2015 11:54:05 | 47.90 | 41.80 | 903 | 1.19 | 0.15 | 49.4 |
| 4/30/2015 11:54:05 | 48.23 | 42.13 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 11:54:05 | 48.56 | 42.46 | 902 | 1.19 | 0.16 | 49.3 |
| 4/30/2015 11:54:06 | 48.88 | 42.78 | 905 | 1.19 | 0.16 | 49.5 |
| 4/30/2015 11:54:06 | 49.21 | 43.11 | 905 | 1.19 | 0.16 | 49.5 |
| 4/30/2015 11:54:06 | 49.54 | 43.44 | 894 | 1.19 | 0.16 | 48.9 |
| 4/30/2015 11:54:07 | 49.87 | 43.77 | 912 | 1.18 | 0.15 | 49.8 |
| 4/30/2015 11:54:07 | 50.20 | 44.10 | 909 | 1.19 | 0.16 | 49.7 |
| 4/30/2015 11:54:08 | 50.53 | 44.43 | 909 | 1.19 | 0.16 | 49.7 |
| 4/30/2015 11:54:08 | 50.85 | 44.75 | 906 | 1.18 | 0.15 | 49.5 |
| 4/30/2015 11:54:08 | 51.18 | 45.08 | 903 | 1.19 | 0.16 | 49.4 |
| 4/30/2015 11:54:09 | 51.51 | 45.41 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 11:54:09 | 51.84 | 45.74 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 11:54:20 | 52.17 | 46.07 | 0 | 1.09 | 0.98 | 0.0 |
| 4/30/2015 11:54:20 | 52.49 | 46.39 | 68 | 1.15 | 0.89 | 3.7 |
| 4/30/2015 11:54:21 | 52.82 | 46.72 | 268 | 1.19 | 1.38 | 14.7 |
| 4/30/2015 11:54:23 | 53.15 | 47.05 | 335 | 1.19 | 0.88 | 18.3 |
| 4/30/2015 11:54:31 | 53.48 | 47.38 | 35 | 1.09 | 1.07 | 1.9 |
| 4/30/2015 11:54:40 | 53.81 | 47.71 | 38 | 1.07 | 1.09 | 2.1 |
| 4/30/2015 11:54:48 | 54.13 | 48.03 | 52 | 1.09 | 1.11 | 2.8 |
| 4/30/2015 11:54:57 | 54.46 | 48.36 | 38 | 1.11 | 0.98 | 2.1 |
| 4/30/2015 11:55:05 | 54.70 | 48.60 | 31 | 0.92 | 1.12 | 1.7 |

## K198 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:52:06

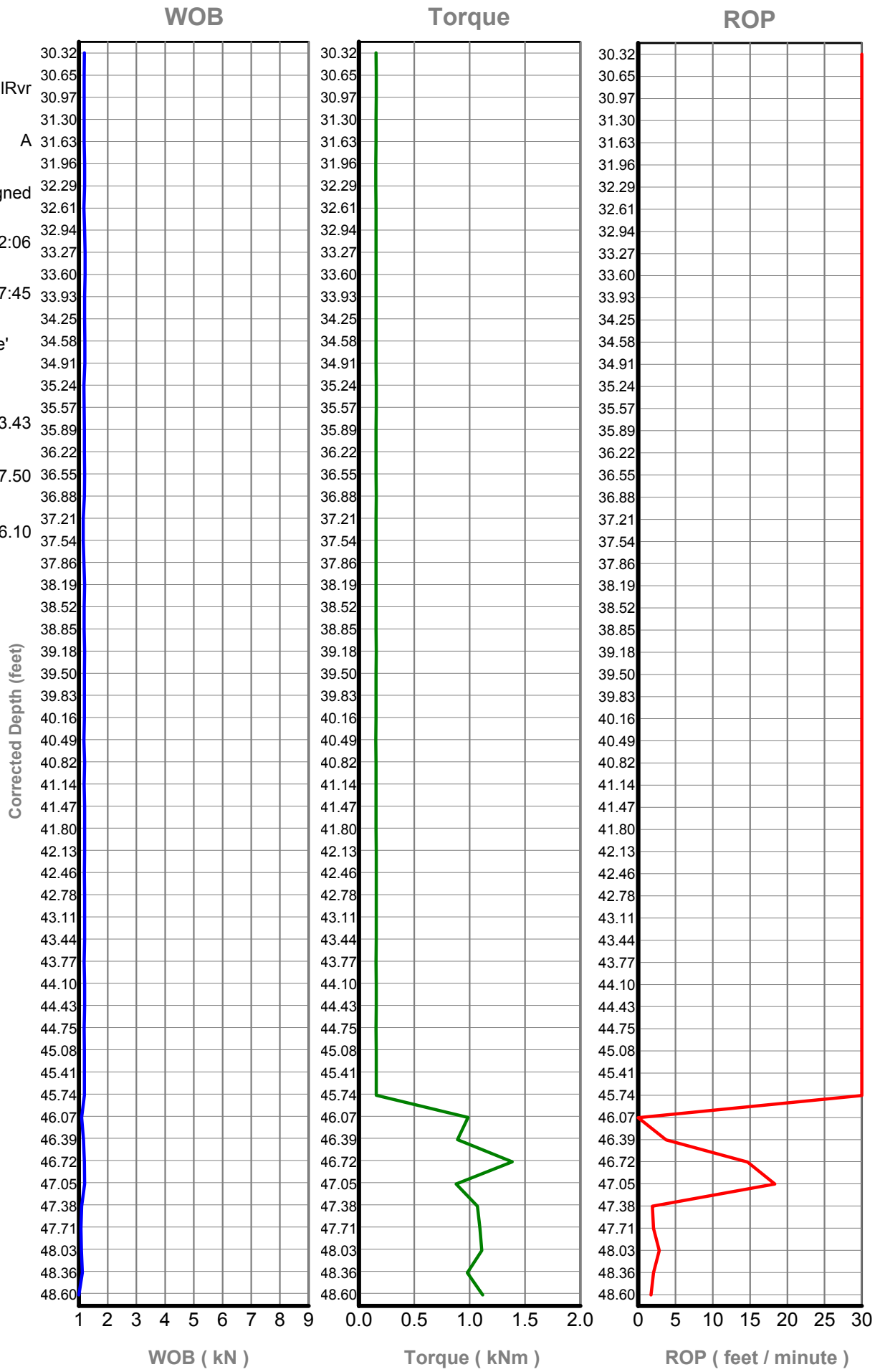
**End Date:**
4/30/2015 11:57:45

**Operator Note:**
'6.1 5.2 a Auto Complete'

**Northing:**
361,213.43

**Easting:**
244,627.50

**Tide (feet):**
6.10



## Hole: K199 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:53:00 | 36.42 | 30.32 | 1,159 | 0.28 | 0.38 | 63.4 |
| 4/30/2015 11:53:00 | 36.75 | 30.65 | 1,159 | 0.28 | 0.38 | 63.4 |
| 4/30/2015 11:53:00 | 37.07 | 30.97 | 1,151 | 0.28 | 0.38 | 62.9 |
| 4/30/2015 11:53:01 | 37.40 | 31.30 | 1,158 | 0.28 | 0.39 | 63.3 |
| 4/30/2015 11:53:01 | 37.73 | 31.63 | 1,158 | 0.28 | 0.39 | 63.3 |
| 4/30/2015 11:53:01 | 38.06 | 31.96 | 1,154 | 0.28 | 0.38 | 63.1 |
| 4/30/2015 11:53:02 | 38.39 | 32.29 | 1,154 | 0.28 | 0.38 | 63.1 |
| 4/30/2015 11:53:02 | 38.71 | 32.61 | 1,156 | 0.29 | 0.38 | 63.2 |
| 4/30/2015 11:53:02 | 39.04 | 32.94 | 1,153 | 0.28 | 0.38 | 63.1 |
| 4/30/2015 11:53:03 | 39.37 | 33.27 | 1,153 | 0.28 | 0.38 | 63.1 |
| 4/30/2015 11:53:03 | 39.70 | 33.60 | 1,159 | 0.29 | 0.38 | 63.4 |
| 4/30/2015 11:53:03 | 40.03 | 33.93 | 1,159 | 0.29 | 0.38 | 63.4 |
| 4/30/2015 11:53:03 | 40.35 | 34.25 | 1,148 | 0.29 | 0.38 | 62.8 |
| 4/30/2015 11:53:04 | 40.68 | 34.58 | 1,148 | 0.29 | 0.38 | 62.8 |
| 4/30/2015 11:53:04 | 41.01 | 34.91 | 1,166 | 0.29 | 0.37 | 63.7 |
| 4/30/2015 11:53:04 | 41.34 | 35.24 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/30/2015 11:53:05 | 41.67 | 35.57 | 1,163 | 0.29 | 0.36 | 63.6 |
| 4/30/2015 11:53:05 | 41.99 | 35.89 | 1,166 | 0.21 | 0.37 | 63.8 |
| 4/30/2015 11:53:06 | 42.32 | 36.22 | 1,166 | 0.21 | 0.37 | 63.8 |
| 4/30/2015 11:53:06 | 42.65 | 36.55 | 1,142 | 0.28 | 0.37 | 62.4 |
| 4/30/2015 11:53:06 | 42.98 | 36.88 | 1,142 | 0.29 | 0.38 | 62.4 |
| 4/30/2015 11:53:07 | 43.31 | 37.21 | 1,142 | 0.29 | 0.38 | 62.4 |
| 4/30/2015 11:53:07 | 43.64 | 37.54 | 1,152 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 11:53:07 | 43.96 | 37.86 | 1,152 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 11:53:07 | 44.29 | 38.19 | 1,152 | 0.29 | 0.37 | 63.0 |
| 4/30/2015 11:53:08 | 44.62 | 38.52 | 1,152 | 0.29 | 0.37 | 63.0 |
| 4/30/2015 11:53:08 | 44.95 | 38.85 | 1,152 | 0.29 | 0.37 | 63.0 |
| 4/30/2015 11:53:08 | 45.28 | 39.18 | 1,162 | 0.29 | 0.38 | 63.5 |
| 4/30/2015 11:53:09 | 45.60 | 39.50 | 1,162 | 0.29 | 0.38 | 63.5 |
| 4/30/2015 11:53:09 | 45.93 | 39.83 | 1,152 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 11:53:09 | 46.26 | 40.16 | 1,152 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 11:53:09 | 46.59 | 40.49 | 1,186 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 11:53:10 | 46.92 | 40.82 | 1,182 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 11:53:10 | 47.24 | 41.14 | 1,182 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 11:53:10 | 47.57 | 41.47 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 11:53:11 | 47.90 | 41.80 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 11:53:11 | 48.23 | 42.13 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 11:53:11 | 48.56 | 42.46 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 11:53:12 | 48.88 | 42.78 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 11:53:12 | 49.21 | 43.11 | 1,171 | 0.28 | 0.36 | 64.0 |
| 4/30/2015 11:53:12 | 49.54 | 43.44 | 1,171 | 0.28 | 0.36 | 64.0 |
| 4/30/2015 11:53:12 | 49.87 | 43.77 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 11:53:13 | 50.20 | 44.10 | 1,171 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 11:53:13 | 50.53 | 44.43 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 11:53:13 | 50.85 | 44.75 | 1,162 | 0.29 | 0.38 | 63.6 |
| 4/30/2015 11:53:14 | 51.18 | 45.08 | 1,162 | 0.29 | 0.38 | 63.6 |
| 4/30/2015 11:53:14 | 51.51 | 45.41 | 1,162 | 0.28 | 0.37 | 63.6 |
| 4/30/2015 11:53:14 | 51.84 | 45.74 | 1,162 | 0.28 | 0.37 | 63.6 |
| 4/30/2015 11:53:21 | 52.17 | 46.07 | 0 | 2.37 | 0.39 | 0.0 |
| 4/30/2015 11:53:22 | 52.49 | 46.39 | 74 | 3.26 | 0.42 | 4.1 |
| 4/30/2015 11:53:44 | 52.82 | 46.72 | 59 | 3.02 | 0.46 | 3.2 |
| 4/30/2015 11:53:50 | 53.15 | 47.05 | 70 | 3.88 | 0.47 | 3.8 |
| 4/30/2015 11:53:54 | 53.48 | 47.38 | 83 | 3.73 | 0.46 | 4.5 |
| 4/30/2015 11:53:57 | 53.81 | 47.71 | 125 | 3.56 | 0.46 | 6.8 |
| 4/30/2015 11:53:59 | 54.13 | 48.03 | 153 | 3.56 | 0.45 | 8.4 |
| 4/30/2015 11:54:00 | 54.46 | 48.36 | 152 | 3.43 | 0.43 | 8.3 |
| 4/30/2015 11:54:03 | 54.79 | 48.69 | 181 | 3.45 | 0.47 | 9.9 |
| 4/30/2015 11:54:08 | 55.12 | 49.02 | 75 | 3.34 | 0.47 | 4.1 |
| 4/30/2015 11:54:11 | 55.45 | 49.35 | 116 | 3.18 | 0.46 | 6.3 |
| 4/30/2015 11:54:18 | 55.77 | 49.67 | 55 | 3.56 | 0.47 | 3.0 |
| 4/30/2015 11:54:26 | 56.10 | 50.00 | 42 | 2.99 | 0.47 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:54:34 | 56.43 | 50.33 | 41 | 3.90 | 0.47 | 2.3 |
| 4/30/2015 | 11:54:38 | 56.60 | 50.50 | 40 | 3.07 | 0.46 | 2.2 |

## K199 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:51:20

**End Date:**
4/30/2015 11:55:42

**Operator Note:**
'6.1 6.2 b Rock'

**Northing:**
361,260.45

**Easting:**
244,685.93

**Tide (feet):**
6.10



## Hole: K2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:33:46 | 34.78 | 30.08 | 866 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 8:33:47 | 35.11 | 30.41 | 860 | 1.16 | 0.17 | 47.1 |
| 4/30/2015 8:33:47 | 35.43 | 30.73 | 878 | 1.19 | 0.17 | 48.0 |
| 4/30/2015 8:33:48 | 35.76 | 31.06 | 878 | 1.19 | 0.17 | 48.0 |
| 4/30/2015 8:33:48 | 36.09 | 31.39 | 852 | 1.21 | 0.17 | 46.6 |
| 4/30/2015 8:33:48 | 36.42 | 31.72 | 852 | 1.20 | 0.17 | 46.6 |
| 4/30/2015 8:33:49 | 36.75 | 32.05 | 853 | 1.19 | 0.17 | 46.7 |
| 4/30/2015 8:33:49 | 37.07 | 32.37 | 856 | 1.20 | 0.17 | 46.8 |
| 4/30/2015 8:33:50 | 37.40 | 32.70 | 856 | 1.20 | 0.17 | 46.8 |
| 4/30/2015 8:33:50 | 37.73 | 33.03 | 838 | 1.19 | 0.17 | 45.8 |
| 4/30/2015 8:33:50 | 38.06 | 33.36 | 838 | 1.19 | 0.17 | 45.8 |
| 4/30/2015 8:33:51 | 38.39 | 33.69 | 843 | 1.29 | 0.17 | 46.1 |
| 4/30/2015 8:34:05 | 38.71 | 34.01 | 0 | 1.28 | 0.98 | 0.0 |
| 4/30/2015 8:34:11 | 39.04 | 34.34 | 66 | 1.15 | 0.92 | 3.6 |
| 4/30/2015 8:34:21 | 39.37 | 34.67 | 58 | 1.17 | 1.27 | 3.2 |
| 4/30/2015 8:34:23 | 39.70 | 35.00 | 132 | 1.19 | 1.04 | 7.2 |
| 4/30/2015 8:34:26 | 40.03 | 35.33 | 96 | 1.13 | 1.13 | 5.2 |
| 4/30/2015 8:34:29 | 40.35 | 35.65 | 144 | 1.13 | 1.12 | 7.9 |
| 4/30/2015 8:34:30 | 40.68 | 35.98 | 211 | 1.14 | 1.05 | 11.5 |
| 4/30/2015 8:34:32 | 41.01 | 36.31 | 198 | 1.15 | 1.17 | 10.8 |
| 4/30/2015 8:34:37 | 41.34 | 36.64 | 43 | 1.12 | 1.31 | 2.4 |
| 4/30/2015 8:34:46 | 41.67 | 36.97 | 43 | 1.16 | 1.15 | 2.4 |
| 4/30/2015 8:34:51 | 41.99 | 37.29 | 130 | 0.53 | 1.25 | 7.1 |
| 4/30/2015 8:34:55 | 42.32 | 37.62 | 84 | 1.07 | 1.12 | 4.6 |
| 4/30/2015 8:34:57 | 42.65 | 37.95 | 101 | 1.15 | 0.94 | 5.5 |
| 4/30/2015 8:35:01 | 42.98 | 38.28 | 107 | 1.81 | 1.06 | 5.9 |
| 4/30/2015 8:35:08 | 43.31 | 38.61 | 61 | 1.11 | 1.04 | 3.3 |
| 4/30/2015 8:35:14 | 43.64 | 38.94 | 55 | 1.11 | 1.04 | 3.0 |
| 4/30/2015 8:35:21 | 43.96 | 39.26 | 46 | 1.13 | 1.01 | 2.5 |
| 4/30/2015 8:35:29 | 44.29 | 39.59 | 46 | 1.11 | 0.95 | 2.5 |
| 4/30/2015 8:35:37 | 44.62 | 39.92 | 45 | 1.10 | 1.05 | 2.5 |
| 4/30/2015 8:35:39 | 44.71 | 40.01 | 46 | 0.67 | 1.12 | 2.5 |

## K2 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:32:25

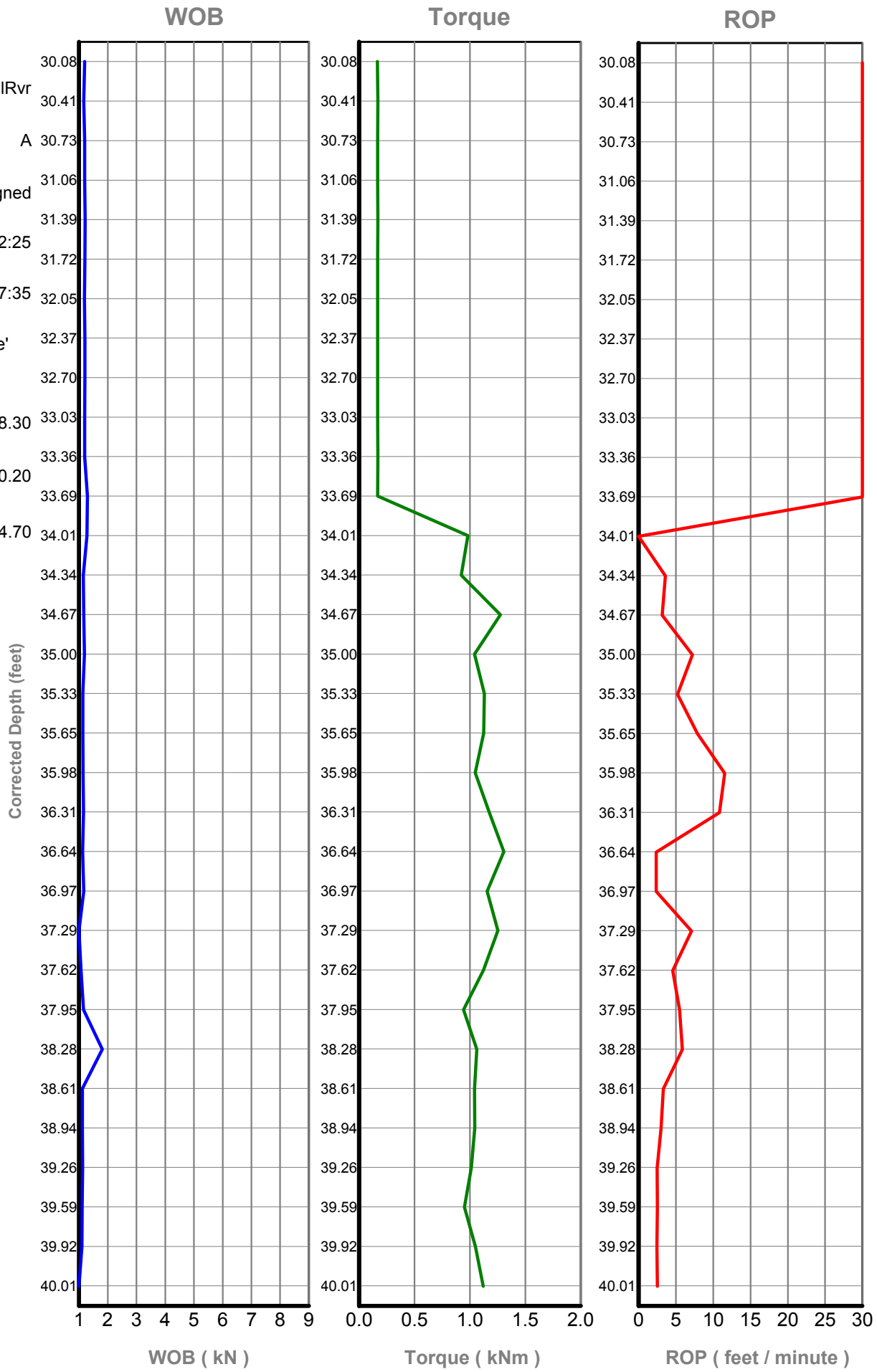
**End Date:**
4/30/2015 8:37:35

**Operator Note:**
'4.7 4.7 a Auto Complete'

**Northing:**
361,718.30

**Easting:**
244,180.20

**Tide (feet):**
4.70



## Hole: K20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:37:58 | 34.45 | 30.05 | 926 | 1.09 | 0.14 | 50.6 |
| 4/30/2015 13:37:59 | 34.78 | 30.38 | 931 | 1.09 | 0.14 | 50.9 |
| 4/30/2015 13:37:59 | 35.11 | 30.71 | 914 | 1.09 | 0.14 | 50.0 |
| 4/30/2015 13:38:00 | 35.43 | 31.03 | 914 | 1.09 | 0.14 | 50.0 |
| 4/30/2015 13:38:00 | 35.76 | 31.36 | 926 | 1.09 | 0.14 | 50.6 |
| 4/30/2015 13:38:00 | 36.09 | 31.69 | 923 | 1.09 | 0.14 | 50.5 |
| 4/30/2015 13:38:01 | 36.42 | 32.02 | 926 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:02 | 36.75 | 32.35 | 926 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:02 | 37.07 | 32.67 | 923 | 1.08 | 0.14 | 50.5 |
| 4/30/2015 13:38:02 | 37.40 | 33.00 | 936 | 1.10 | 0.14 | 51.2 |
| 4/30/2015 13:38:03 | 37.73 | 33.33 | 925 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:03 | 38.06 | 33.66 | 925 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:03 | 38.39 | 33.99 | 931 | 1.10 | 0.14 | 50.9 |
| 4/30/2015 13:38:04 | 38.71 | 34.31 | 925 | 1.07 | 0.14 | 50.6 |
| 4/30/2015 13:38:04 | 39.04 | 34.64 | 931 | 1.10 | 0.14 | 50.9 |
| 4/30/2015 13:38:05 | 39.37 | 34.97 | 931 | 1.10 | 0.14 | 50.9 |
| 4/30/2015 13:38:05 | 39.70 | 35.30 | 928 | 1.09 | 0.14 | 50.7 |
| 4/30/2015 13:38:05 | 40.03 | 35.63 | 925 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:06 | 40.35 | 35.95 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:06 | 40.68 | 36.28 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:06 | 41.01 | 36.61 | 925 | 1.11 | 0.14 | 50.6 |
| 4/30/2015 13:38:07 | 41.34 | 36.94 | 919 | 1.09 | 0.14 | 50.3 |
| 4/30/2015 13:38:07 | 41.67 | 37.27 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:08 | 41.99 | 37.59 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:08 | 42.32 | 37.92 | 919 | 1.09 | 0.14 | 50.3 |
| 4/30/2015 13:38:08 | 42.65 | 38.25 | 922 | 1.09 | 0.14 | 50.4 |
| 4/30/2015 13:38:09 | 42.98 | 38.58 | 922 | 1.09 | 0.14 | 50.4 |
| 4/30/2015 13:38:09 | 43.31 | 38.91 | 916 | 1.10 | 0.14 | 50.1 |
| 4/30/2015 13:38:09 | 43.64 | 39.24 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 13:38:10 | 43.96 | 39.56 | 914 | 1.10 | 0.14 | 50.0 |
| 4/30/2015 13:38:10 | 44.29 | 39.89 | 914 | 1.10 | 0.14 | 50.0 |
| 4/30/2015 13:38:10 | 44.62 | 40.22 | 919 | 1.11 | 0.22 | 50.3 |
| 4/30/2015 13:38:11 | 44.95 | 40.55 | 916 | 1.10 | 0.14 | 50.1 |
| 4/30/2015 13:38:12 | 45.28 | 40.88 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:12 | 45.60 | 41.20 | 916 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:38:12 | 45.93 | 41.53 | 904 | 1.09 | 0.14 | 49.4 |
| 4/30/2015 13:38:13 | 46.26 | 41.86 | 912 | 1.11 | 0.14 | 49.9 |
| 4/30/2015 13:38:13 | 46.59 | 42.19 | 915 | 1.09 | 0.14 | 50.0 |
| 4/30/2015 13:38:14 | 46.92 | 42.52 | 915 | 1.09 | 0.14 | 50.0 |
| 4/30/2015 13:38:14 | 47.24 | 42.84 | 915 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 13:38:14 | 47.57 | 43.17 | 909 | 1.09 | 0.14 | 49.7 |
| 4/30/2015 13:38:15 | 47.90 | 43.50 | 905 | 1.09 | 0.14 | 49.5 |
| 4/30/2015 13:38:15 | 48.23 | 43.83 | 905 | 1.09 | 0.14 | 49.5 |
| 4/30/2015 13:38:15 | 48.56 | 44.16 | 905 | 1.09 | 0.14 | 49.5 |
| 4/30/2015 13:38:16 | 48.88 | 44.48 | 911 | 1.08 | 0.14 | 49.8 |
| 4/30/2015 13:38:16 | 49.21 | 44.81 | 899 | 1.10 | 0.14 | 49.2 |
| 4/30/2015 13:38:17 | 49.54 | 45.14 | 899 | 1.10 | 0.14 | 49.2 |
| 4/30/2015 13:38:17 | 49.87 | 45.47 | 908 | 1.11 | 0.14 | 49.6 |
| 4/30/2015 13:38:17 | 50.20 | 45.80 | 886 | 1.09 | 0.14 | 48.5 |
| 4/30/2015 13:38:18 | 50.53 | 46.13 | 886 | 1.09 | 0.14 | 48.5 |
| 4/30/2015 13:38:18 | 50.85 | 46.45 | 911 | 1.12 | 0.14 | 49.8 |
| 4/30/2015 13:38:19 | 51.18 | 46.78 | 911 | 1.12 | 0.14 | 49.8 |
| 4/30/2015 13:38:33 | 51.51 | 47.11 | 0 | 1.07 | 0.70 | 0.0 |
| 4/30/2015 13:38:34 | 51.84 | 47.44 | 133 | 1.17 | 0.68 | 7.3 |
| 4/30/2015 13:38:35 | 52.17 | 47.77 | 169 | 1.15 | 0.68 | 9.3 |
| 4/30/2015 13:38:36 | 52.49 | 48.09 | 392 | 1.10 | 0.92 | 21.4 |
| 4/30/2015 13:38:36 | 52.82 | 48.42 | 418 | 1.14 | 1.11 | 22.9 |
| 4/30/2015 13:38:39 | 53.15 | 48.75 | 205 | 1.12 | 1.22 | 11.2 |
| 4/30/2015 13:38:42 | 53.48 | 49.08 | 64 | 1.05 | 0.79 | 3.5 |
| 4/30/2015 13:38:44 | 53.81 | 49.41 | 204 | 1.01 | 1.01 | 11.2 |
| 4/30/2015 13:38:45 | 54.13 | 49.73 | 255 | 1.09 | 1.00 | 13.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:38:46 | 54.46 | 50.06 | 300 | 1.07 | 1.27 | 16.4 |
| 4/30/2015 | 13:38:48 | 54.79 | 50.39 | 243 | 1.06 | 0.91 | 13.3 |
| 4/30/2015 | 13:38:49 | 55.12 | 50.72 | 246 | 1.10 | 1.11 | 13.4 |
| 4/30/2015 | 13:38:51 | 55.45 | 51.05 | 228 | 1.09 | 1.09 | 12.5 |
| 4/30/2015 | 13:38:52 | 55.77 | 51.37 | 208 | 1.11 | 1.02 | 11.4 |
| 4/30/2015 | 13:38:55 | 56.10 | 51.70 | 154 | 1.09 | 1.17 | 8.4 |
| 4/30/2015 | 13:38:56 | 56.43 | 52.03 | 208 | 0.98 | 1.00 | 11.4 |
| 4/30/2015 | 13:38:57 | 56.76 | 52.36 | 294 | 1.05 | 0.96 | 16.1 |
| 4/30/2015 | 13:38:58 | 57.09 | 52.69 | 309 | 1.11 | 1.02 | 16.9 |
| 4/30/2015 | 13:39:00 | 57.41 | 53.01 | 253 | 1.07 | 0.96 | 13.8 |
| 4/30/2015 | 13:39:04 | 57.74 | 53.34 | 75 | 1.01 | 0.91 | 4.1 |
| 4/30/2015 | 13:39:08 | 58.07 | 53.67 | 91 | 1.02 | 1.12 | 5.0 |
| 4/30/2015 | 13:39:11 | 58.40 | 54.00 | 103 | 1.07 | 1.08 | 5.6 |
| 4/30/2015 | 13:39:15 | 58.73 | 54.33 | 119 | 1.00 | 0.96 | 6.5 |
| 4/30/2015 | 13:39:17 | 59.06 | 54.66 | 139 | 1.05 | 0.83 | 7.6 |
| 4/30/2015 | 13:39:21 | 59.38 | 54.98 | 70 | 1.02 | 0.81 | 3.8 |
| 4/30/2015 | 13:39:26 | 59.71 | 55.31 | 69 | 1.02 | 1.25 | 3.8 |
| 4/30/2015 | 13:39:27 | 59.81 | 55.41 | 96 | 0.64 | 1.02 | 5.3 |

## K20 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:36:21

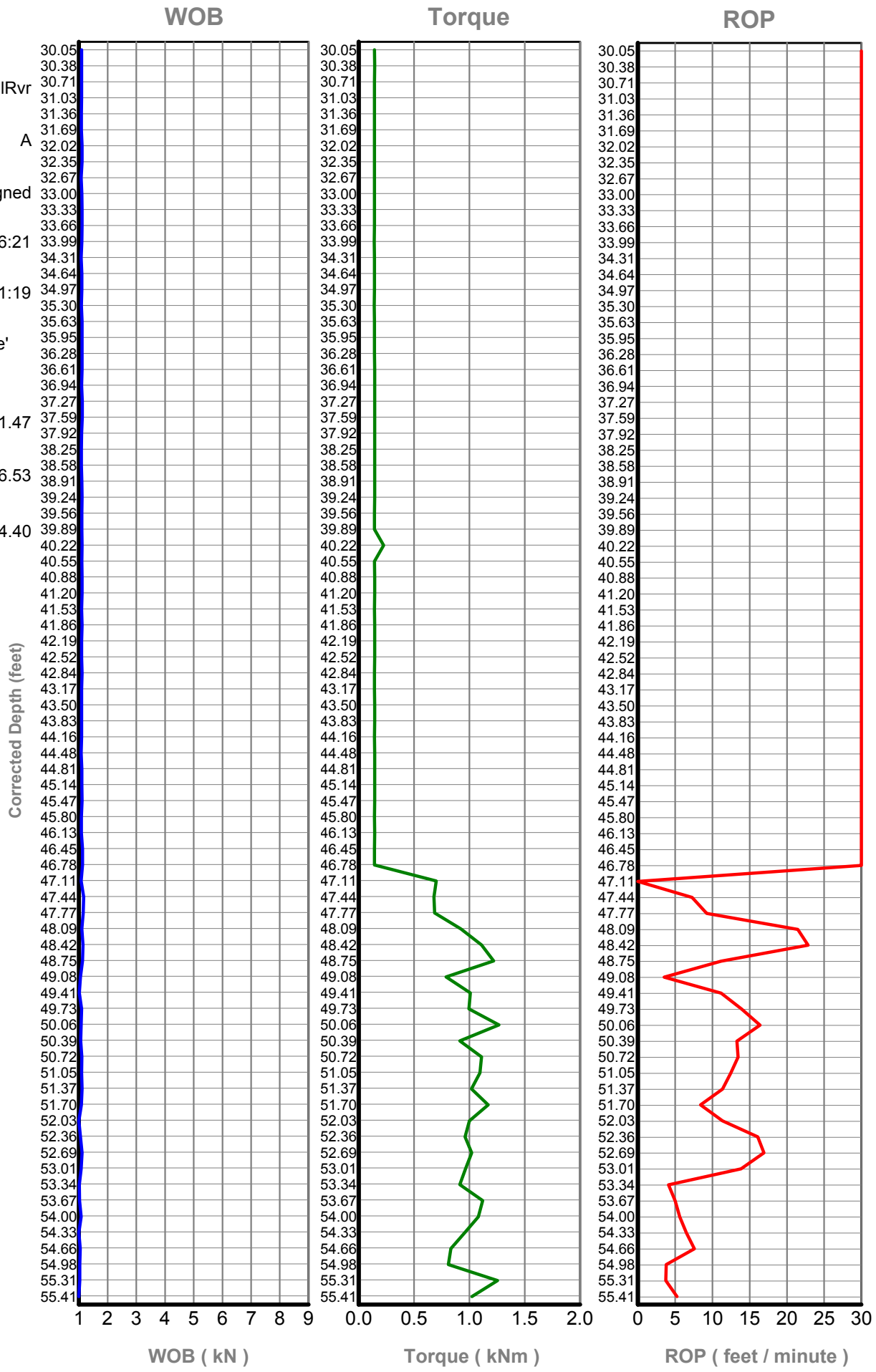
**End Date:**
4/30/2015 13:41:19

**Operator Note:**
'4.4 4.8 a Auto Complete'

**Northing:**
361,681.47

**Easting:**
244,246.53

**Tide (feet):**
4.40



## Hole: K200 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:53:20 | 36.42 | 30.32 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:53:20 | 36.75 | 30.65 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:53:21 | 37.07 | 30.97 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:21 | 37.40 | 31.30 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:21 | 37.73 | 31.63 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 11:53:22 | 38.06 | 31.96 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:22 | 38.39 | 32.29 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:22 | 38.71 | 32.61 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 11:53:23 | 39.04 | 32.94 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:23 | 39.37 | 33.27 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:23 | 39.70 | 33.60 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 11:53:24 | 40.03 | 33.93 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 11:53:24 | 40.35 | 34.25 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 11:53:24 | 40.68 | 34.58 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 11:53:25 | 41.01 | 34.91 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 11:53:25 | 41.34 | 35.24 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 11:53:25 | 41.67 | 35.57 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 11:53:26 | 41.99 | 35.89 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 11:53:26 | 42.32 | 36.22 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 11:53:26 | 42.65 | 36.55 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:27 | 42.98 | 36.88 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:27 | 43.31 | 37.21 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:27 | 43.64 | 37.54 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 11:53:27 | 43.96 | 37.86 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:28 | 44.29 | 38.19 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:28 | 44.62 | 38.52 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:28 | 44.95 | 38.85 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:29 | 45.28 | 39.18 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 11:53:30 | 45.60 | 39.50 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 11:53:29 | 45.93 | 39.83 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 11:53:30 | 46.26 | 40.16 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 11:53:31 | 46.59 | 40.49 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 11:53:31 | 46.92 | 40.82 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:53:31 | 47.24 | 41.14 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:53:32 | 47.57 | 41.47 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:53:32 | 47.90 | 41.80 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:53:32 | 48.23 | 42.13 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:53:32 | 48.56 | 42.46 | 1,063 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 11:53:33 | 48.88 | 42.78 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 11:53:33 | 49.21 | 43.11 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 11:53:33 | 49.54 | 43.44 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:53:34 | 49.87 | 43.77 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:34 | 50.20 | 44.10 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 11:53:34 | 50.53 | 44.43 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 11:53:35 | 50.85 | 44.75 | 1,071 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 11:53:35 | 51.18 | 45.08 | 1,071 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 11:53:35 | 51.51 | 45.41 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:53:36 | 51.84 | 45.74 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:53:48 | 52.17 | 46.07 | 15 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 11:53:51 | 52.49 | 46.39 | 48 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 11:53:52 | 52.82 | 46.72 | 155 | 1.14 | 0.29 | 8.5 |
| 4/30/2015 11:53:53 | 53.15 | 47.05 | 279 | 1.14 | 0.29 | 15.2 |
| 4/30/2015 11:53:54 | 53.48 | 47.38 | 401 | 1.14 | 0.29 | 21.9 |
| 4/30/2015 11:53:54 | 53.81 | 47.71 | 528 | 1.14 | 0.29 | 28.9 |
| 4/30/2015 11:54:35 | 54.13 | 48.03 | 24 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 11:54:38 | 54.46 | 48.36 | 128 | 1.14 | 0.29 | 7.0 |
| 4/30/2015 11:54:45 | 54.79 | 48.69 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 11:54:51 | 55.12 | 49.02 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 11:54:55 | 55.45 | 49.35 | 106 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 11:55:01 | 55.77 | 49.67 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 11:55:08 | 56.10 | 50.00 | 44 | 1.14 | 0.29 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:55:12 | 56.29 | 50.19 | 43 | 1.14 | 0.29 | 2.4 |

## K200 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:51:41

**End Date:**
4/30/2015 11:57:04

**Operator Note:**
'6.1 5.2 C Auto Complete'

**Northing:**
361,307.48

**Easting:**
244,743.84

**Tide (feet):**
6.10



## Hole: K201 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:25:05 | 33.46 | 30.06 | 1,089 | 1.54 | 0.26 | 59.5 |
| 4/29/2015 13:25:05 | 33.79 | 30.39 | 1,099 | 1.55 | 0.26 | 60.1 |
| 4/29/2015 13:25:06 | 34.12 | 30.72 | 1,099 | 1.55 | 0.26 | 60.1 |
| 4/29/2015 13:25:06 | 34.45 | 31.05 | 1,102 | 1.53 | 0.25 | 60.3 |
| 4/29/2015 13:25:06 | 34.78 | 31.38 | 1,102 | 1.53 | 0.25 | 60.3 |
| 4/29/2015 13:25:06 | 35.11 | 31.71 | 1,112 | 1.55 | 0.25 | 60.8 |
| 4/29/2015 13:25:07 | 35.43 | 32.03 | 1,105 | 1.54 | 0.25 | 60.4 |
| 4/29/2015 13:25:07 | 35.76 | 32.36 | 1,105 | 1.54 | 0.25 | 60.4 |
| 4/29/2015 13:25:07 | 36.09 | 32.69 | 1,123 | 1.52 | 0.26 | 61.4 |
| 4/29/2015 13:25:08 | 36.42 | 33.02 | 1,115 | 1.57 | 0.26 | 61.0 |
| 4/29/2015 13:25:08 | 36.75 | 33.35 | 1,115 | 1.57 | 0.26 | 61.0 |
| 4/29/2015 13:25:08 | 37.07 | 33.67 | 1,131 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 13:25:09 | 37.40 | 34.00 | 1,131 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 13:25:09 | 37.73 | 34.33 | 1,137 | 1.53 | 0.25 | 62.1 |
| 4/29/2015 13:25:09 | 38.06 | 34.66 | 1,139 | 1.54 | 0.26 | 62.3 |
| 4/29/2015 13:25:10 | 38.39 | 34.99 | 1,139 | 1.54 | 0.26 | 62.3 |
| 4/29/2015 13:25:10 | 38.71 | 35.31 | 1,132 | 1.53 | 0.26 | 61.9 |
| 4/29/2015 13:25:10 | 39.04 | 35.64 | 1,132 | 1.53 | 0.26 | 61.9 |
| 4/29/2015 13:25:10 | 39.37 | 35.97 | 1,146 | 1.55 | 0.26 | 62.7 |
| 4/29/2015 13:25:11 | 39.70 | 36.30 | 1,130 | 1.55 | 0.25 | 61.8 |
| 4/29/2015 13:25:11 | 40.03 | 36.63 | 1,130 | 1.55 | 0.25 | 61.8 |
| 4/29/2015 13:25:12 | 40.35 | 36.95 | 1,125 | 1.55 | 0.25 | 61.5 |
| 4/29/2015 13:25:12 | 40.68 | 37.28 | 1,125 | 1.55 | 0.25 | 61.5 |
| 4/29/2015 13:25:12 | 41.01 | 37.61 | 1,116 | 1.56 | 0.25 | 61.0 |
| 4/29/2015 13:25:13 | 41.34 | 37.94 | 1,119 | 1.55 | 0.25 | 61.2 |
| 4/29/2015 13:25:13 | 41.67 | 38.27 | 1,119 | 1.55 | 0.25 | 61.2 |
| 4/29/2015 13:25:13 | 41.99 | 38.59 | 1,110 | 1.55 | 0.25 | 60.7 |
| 4/29/2015 13:25:14 | 42.32 | 38.92 | 1,110 | 1.53 | 0.26 | 60.7 |
| 4/29/2015 13:25:14 | 42.65 | 39.25 | 1,110 | 1.53 | 0.26 | 60.7 |
| 4/29/2015 13:25:14 | 42.98 | 39.58 | 1,109 | 1.67 | 0.26 | 60.7 |
| 4/29/2015 13:25:15 | 43.31 | 39.91 | 1,109 | 1.67 | 0.26 | 60.7 |
| 4/29/2015 13:25:15 | 43.64 | 40.24 | 1,124 | 1.55 | 0.26 | 61.5 |
| 4/29/2015 13:25:15 | 43.96 | 40.56 | 1,124 | 1.55 | 0.26 | 61.5 |
| 4/29/2015 13:25:15 | 44.29 | 40.89 | 1,133 | 1.52 | 0.26 | 62.0 |
| 4/29/2015 13:25:16 | 44.62 | 41.22 | 1,151 | 1.53 | 0.26 | 62.9 |
| 4/29/2015 13:25:16 | 44.95 | 41.55 | 1,151 | 1.53 | 0.26 | 62.9 |
| 4/29/2015 13:25:16 | 45.28 | 41.88 | 1,162 | 1.51 | 0.26 | 63.6 |
| 4/29/2015 13:25:17 | 45.60 | 42.20 | 1,162 | 1.51 | 0.26 | 63.6 |
| 4/29/2015 13:25:17 | 45.93 | 42.53 | 1,171 | 1.53 | 0.26 | 64.0 |
| 4/29/2015 13:25:17 | 46.26 | 42.86 | 1,180 | 1.53 | 0.26 | 64.5 |
| 4/29/2015 13:25:18 | 46.59 | 43.19 | 1,180 | 1.53 | 0.26 | 64.5 |
| 4/29/2015 13:25:18 | 46.92 | 43.52 | 1,152 | 1.53 | 0.26 | 63.0 |
| 4/29/2015 13:25:18 | 47.24 | 43.84 | 1,152 | 1.53 | 0.26 | 63.0 |
| 4/29/2015 13:25:18 | 47.57 | 44.17 | 1,152 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 13:25:19 | 47.90 | 44.50 | 1,152 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 13:25:19 | 48.23 | 44.83 | 1,163 | 1.54 | 0.26 | 63.6 |
| 4/29/2015 13:25:19 | 48.56 | 45.16 | 1,161 | 1.54 | 0.26 | 63.5 |
| 4/29/2015 13:25:20 | 48.88 | 45.48 | 1,161 | 1.54 | 0.26 | 63.5 |
| 4/29/2015 13:25:20 | 49.21 | 45.81 | 1,165 | 1.52 | 0.26 | 63.7 |
| 4/29/2015 13:25:20 | 49.54 | 46.14 | 1,165 | 1.52 | 0.26 | 63.7 |
| 4/29/2015 13:25:20 | 49.87 | 46.47 | 1,152 | 1.70 | 0.26 | 63.0 |
| 4/29/2015 13:25:21 | 50.20 | 46.80 | 909 | 1.62 | 0.26 | 49.7 |
| 4/29/2015 13:25:54 | 50.53 | 47.13 | 0 | 1.62 | 0.97 | 0.0 |
| 4/29/2015 13:25:55 | 50.85 | 47.45 | 55 | 1.66 | 1.17 | 3.0 |
| 4/29/2015 13:25:56 | 51.18 | 47.78 | 226 | 1.64 | 0.91 | 12.4 |
| 4/29/2015 13:25:57 | 51.51 | 48.11 | 329 | 1.64 | 1.13 | 18.0 |
| 4/29/2015 13:25:58 | 51.84 | 48.44 | 463 | 1.64 | 0.97 | 25.3 |
| 4/29/2015 13:25:58 | 52.17 | 48.77 | 483 | 1.98 | 0.91 | 26.4 |
| 4/29/2015 13:26:31 | 52.49 | 49.09 | 109 | 1.64 | 0.89 | 5.9 |
| 4/29/2015 13:26:31 | 52.82 | 49.42 | 109 | 1.64 | 0.89 | 5.9 |
| 4/29/2015 13:26:31 | 53.15 | 49.75 | 269 | 1.62 | 0.86 | 14.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:26:32 | 53.48 | 50.08 | 432 | 1.63 | 0.94 | 23.6 |
| 4/29/2015 | 13:26:32 | 53.81 | 50.41 | 582 | 1.62 | 0.93 | 31.8 |
| 4/29/2015 | 13:26:33 | 54.13 | 50.73 | 667 | 1.65 | 0.95 | 36.5 |
| 4/29/2015 | 13:26:34 | 54.46 | 51.06 | 518 | 1.64 | 0.85 | 28.3 |
| 4/29/2015 | 13:26:35 | 54.79 | 51.39 | 498 | 1.66 | 0.82 | 27.2 |
| 4/29/2015 | 13:26:36 | 55.12 | 51.72 | 527 | 1.64 | 0.94 | 28.8 |
| 4/29/2015 | 13:26:36 | 55.45 | 52.05 | 556 | 1.64 | 1.10 | 30.4 |
| 4/29/2015 | 13:26:37 | 55.77 | 52.37 | 541 | 1.42 | 1.11 | 29.6 |
| 4/29/2015 | 13:26:44 | 56.10 | 52.70 | 129 | 1.68 | 1.38 | 7.0 |
| 4/29/2015 | 13:26:48 | 56.43 | 53.03 | 60 | 1.64 | 1.15 | 3.3 |
| 4/29/2015 | 13:26:49 | 56.76 | 53.36 | 205 | 1.64 | 1.25 | 11.2 |
| 4/29/2015 | 13:26:51 | 57.09 | 53.69 | 204 | 1.63 | 1.26 | 11.2 |
| 4/29/2015 | 13:27:02 | 57.41 | 54.01 | 75 | 1.66 | 1.17 | 4.1 |
| 4/29/2015 | 13:27:03 | 57.74 | 54.34 | 190 | 1.64 | 1.38 | 10.4 |
| 4/29/2015 | 13:27:22 | 58.07 | 54.67 | 17 | 1.65 | 1.48 | 0.9 |
| 4/29/2015 | 13:27:39 | 58.40 | 55.00 | 93 | 1.66 | 1.31 | 5.1 |
| 4/29/2015 | 13:27:42 | 58.73 | 55.33 | 149 | 1.62 | 1.15 | 8.2 |
| 4/29/2015 | 13:27:43 | 58.93 | 55.53 | 167 | 1.67 | 1.36 | 9.1 |

## K201 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:23:59

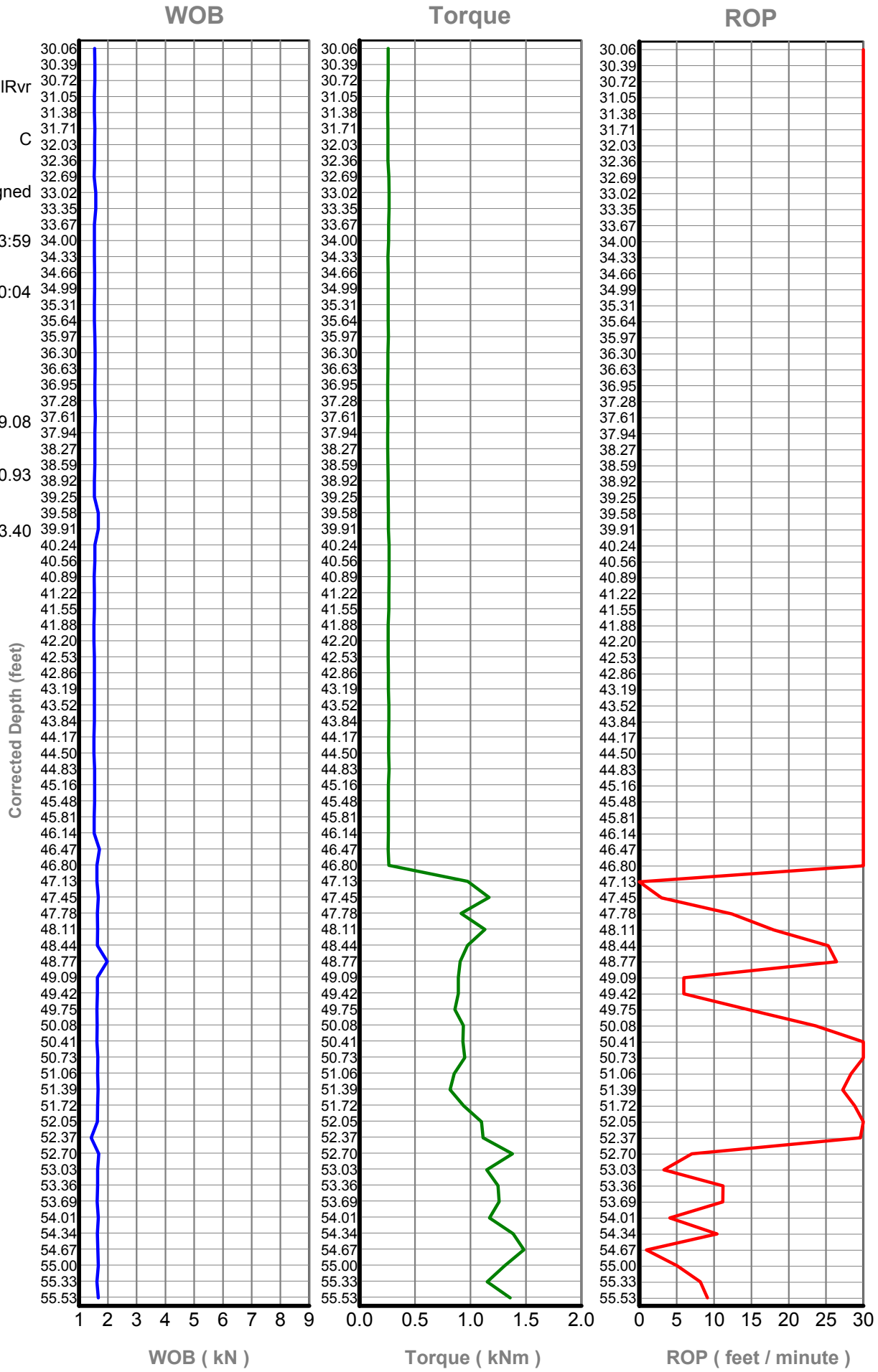
**End Date:**
4/29/2015 13:30:04

**Operator Note:**
'3.4 3.8 C Auto Complete'

**Northing:**
361,309.08

**Easting:**
244,780.93

**Tide (feet):**
3.40



## Hole: K202 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:12:45 | 33.79 | 30.19 | 1,165 | 1.51 | 0.26 | 63.7 |
| 4/29/2015 13:12:46 | 34.12 | 30.52 | 1,165 | 1.50 | 0.26 | 63.7 |
| 4/29/2015 13:12:46 | 34.45 | 30.85 | 1,165 | 1.50 | 0.26 | 63.7 |
| 4/29/2015 13:12:46 | 34.78 | 31.18 | 1,158 | 1.53 | 0.26 | 63.3 |
| 4/29/2015 13:12:47 | 35.11 | 31.51 | 1,158 | 1.53 | 0.26 | 63.3 |
| 4/29/2015 13:12:47 | 35.43 | 31.83 | 1,168 | 1.52 | 0.26 | 63.9 |
| 4/29/2015 13:12:47 | 35.76 | 32.16 | 1,165 | 1.52 | 0.27 | 63.7 |
| 4/29/2015 13:12:48 | 36.09 | 32.49 | 1,165 | 1.52 | 0.27 | 63.7 |
| 4/29/2015 13:12:48 | 36.42 | 32.82 | 1,168 | 1.53 | 0.27 | 63.9 |
| 4/29/2015 13:12:48 | 36.75 | 33.15 | 1,168 | 1.53 | 0.27 | 63.9 |
| 4/29/2015 13:12:48 | 37.07 | 33.47 | 1,168 | 1.53 | 0.26 | 63.9 |
| 4/29/2015 13:12:49 | 37.40 | 33.80 | 1,168 | 1.52 | 0.26 | 63.9 |
| 4/29/2015 13:12:49 | 37.73 | 34.13 | 1,168 | 1.52 | 0.26 | 63.9 |
| 4/29/2015 13:12:49 | 38.06 | 34.46 | 1,165 | 1.53 | 0.26 | 63.7 |
| 4/29/2015 13:12:50 | 38.39 | 34.79 | 1,165 | 1.53 | 0.26 | 63.7 |
| 4/29/2015 13:12:50 | 38.71 | 35.11 | 1,165 | 1.51 | 0.26 | 63.7 |
| 4/29/2015 13:12:50 | 39.04 | 35.44 | 1,165 | 1.51 | 0.26 | 63.7 |
| 4/29/2015 13:12:50 | 39.37 | 35.77 | 1,155 | 1.52 | 0.26 | 63.2 |
| 4/29/2015 13:12:51 | 39.70 | 36.10 | 1,165 | 1.53 | 0.26 | 63.7 |
| 4/29/2015 13:12:51 | 40.03 | 36.43 | 1,165 | 1.53 | 0.26 | 63.7 |
| 4/29/2015 13:12:51 | 40.35 | 36.75 | 1,162 | 1.55 | 0.26 | 63.5 |
| 4/29/2015 13:12:52 | 40.68 | 37.08 | 1,162 | 1.55 | 0.26 | 63.5 |
| 4/29/2015 13:12:52 | 41.01 | 37.41 | 1,162 | 1.57 | 0.26 | 63.5 |
| 4/29/2015 13:12:53 | 41.34 | 37.74 | 1,159 | 1.51 | 0.26 | 63.4 |
| 4/29/2015 13:12:53 | 41.67 | 38.07 | 1,159 | 1.51 | 0.26 | 63.4 |
| 4/29/2015 13:12:53 | 41.99 | 38.39 | 1,162 | 1.53 | 0.26 | 63.5 |
| 4/29/2015 13:12:54 | 42.32 | 38.72 | 1,162 | 1.53 | 0.26 | 63.5 |
| 4/29/2015 13:12:54 | 42.65 | 39.05 | 1,139 | 1.53 | 0.26 | 62.3 |
| 4/29/2015 13:12:54 | 42.98 | 39.38 | 1,139 | 1.59 | 0.26 | 62.3 |
| 4/29/2015 13:12:55 | 43.31 | 39.71 | 1,139 | 1.59 | 0.26 | 62.3 |
| 4/29/2015 13:12:55 | 43.64 | 40.04 | 1,137 | 1.66 | 0.26 | 62.2 |
| 4/29/2015 13:12:55 | 43.96 | 40.36 | 1,066 | 1.64 | 0.26 | 58.3 |
| 4/29/2015 13:12:56 | 44.29 | 40.69 | 977 | 1.65 | 0.26 | 53.4 |
| 4/29/2015 13:12:56 | 44.62 | 41.02 | 900 | 1.64 | 0.26 | 49.2 |
| 4/29/2015 13:12:57 | 44.95 | 41.35 | 832 | 1.68 | 0.26 | 45.5 |
| 4/29/2015 13:12:57 | 45.28 | 41.68 | 769 | 1.63 | 0.27 | 42.0 |
| 4/29/2015 13:12:58 | 45.60 | 42.00 | 769 | 1.63 | 0.27 | 42.0 |
| 4/29/2015 13:12:58 | 45.93 | 42.33 | 775 | 1.61 | 0.27 | 42.4 |
| 4/29/2015 13:12:58 | 46.26 | 42.66 | 805 | 1.65 | 0.26 | 44.0 |
| 4/29/2015 13:12:59 | 46.59 | 42.99 | 802 | 1.65 | 0.26 | 43.8 |
| 4/29/2015 13:12:59 | 46.92 | 43.32 | 794 | 1.64 | 0.26 | 43.4 |
| 4/29/2015 13:13:00 | 47.24 | 43.64 | 774 | 1.64 | 0.26 | 42.3 |
| 4/29/2015 13:13:00 | 47.57 | 43.97 | 734 | 1.65 | 0.26 | 40.1 |
| 4/29/2015 13:13:01 | 47.90 | 44.30 | 700 | 1.66 | 0.26 | 38.3 |
| 4/29/2015 13:13:01 | 48.23 | 44.63 | 685 | 1.67 | 0.26 | 37.5 |
| 4/29/2015 13:13:02 | 48.56 | 44.96 | 673 | 1.66 | 0.26 | 36.8 |
| 4/29/2015 13:13:03 | 48.88 | 45.28 | 604 | 1.62 | 0.27 | 33.0 |
| 4/29/2015 13:13:04 | 49.21 | 45.61 | 552 | 1.64 | 0.26 | 30.2 |
| 4/29/2015 13:13:21 | 49.54 | 45.94 | 17 | 1.61 | 1.31 | 0.9 |
| 4/29/2015 13:13:21 | 49.87 | 46.27 | 79 | 1.67 | 1.14 | 4.3 |
| 4/29/2015 13:13:22 | 50.20 | 46.60 | 196 | 1.63 | 1.23 | 10.7 |
| 4/29/2015 13:13:23 | 50.53 | 46.93 | 455 | 1.67 | 1.09 | 24.9 |
| 4/29/2015 13:13:24 | 50.85 | 47.25 | 552 | 1.63 | 1.21 | 30.2 |
| 4/29/2015 13:13:45 | 51.18 | 47.58 | 30 | 1.68 | 1.17 | 1.7 |
| 4/29/2015 13:13:53 | 51.51 | 47.91 | 43 | 1.66 | 1.08 | 2.4 |
| 4/29/2015 13:14:02 | 51.84 | 48.24 | 44 | 1.68 | 1.22 | 2.4 |
| 4/29/2015 13:14:09 | 52.17 | 48.57 | 48 | 1.66 | 1.15 | 2.6 |
| 4/29/2015 13:14:15 | 52.49 | 48.89 | 61 | 1.65 | 1.23 | 3.3 |
| 4/29/2015 13:14:18 | 52.66 | 49.06 | 55 | 1.68 | 1.32 | 3.0 |

## K202 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:11:45

**End Date:**
4/29/2015 13:15:38

**Operator Note:**
'3.6 Auto Complete'

**Northing:**
361,365.34

**Easting:**
244,832.97

**Tide (feet):**
3.60



## Hole: K203 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:00:15 | 34.12 | 30.12 | 1,156 | 1.53 | 0.26 | 63.2 |
| 4/29/2015 13:00:16 | 34.45 | 30.45 | 1,156 | 1.53 | 0.26 | 63.2 |
| 4/29/2015 13:00:16 | 34.78 | 30.78 | 1,144 | 1.55 | 0.26 | 62.6 |
| 4/29/2015 13:00:16 | 35.11 | 31.11 | 1,144 | 1.55 | 0.26 | 62.6 |
| 4/29/2015 13:00:16 | 35.43 | 31.43 | 1,153 | 1.52 | 0.26 | 63.1 |
| 4/29/2015 13:00:17 | 35.76 | 31.76 | 1,159 | 1.53 | 0.26 | 63.4 |
| 4/29/2015 13:00:17 | 36.09 | 32.09 | 1,159 | 1.53 | 0.26 | 63.4 |
| 4/29/2015 13:00:17 | 36.42 | 32.42 | 1,156 | 1.55 | 0.26 | 63.2 |
| 4/29/2015 13:00:18 | 36.75 | 32.75 | 1,156 | 1.55 | 0.26 | 63.2 |
| 4/29/2015 13:00:18 | 37.07 | 33.07 | 1,156 | 1.51 | 0.26 | 63.2 |
| 4/29/2015 13:00:18 | 37.40 | 33.40 | 1,156 | 1.54 | 0.26 | 63.2 |
| 4/29/2015 13:00:19 | 37.73 | 33.73 | 1,156 | 1.54 | 0.26 | 63.2 |
| 4/29/2015 13:00:19 | 38.06 | 34.06 | 1,156 | 1.51 | 0.26 | 63.2 |
| 4/29/2015 13:00:19 | 38.39 | 34.39 | 1,156 | 1.51 | 0.26 | 63.2 |
| 4/29/2015 13:00:19 | 38.71 | 34.71 | 1,151 | 1.55 | 0.26 | 62.9 |
| 4/29/2015 13:00:20 | 39.04 | 35.04 | 1,151 | 1.55 | 0.26 | 62.9 |
| 4/29/2015 13:00:20 | 39.37 | 35.37 | 1,151 | 1.54 | 0.26 | 62.9 |
| 4/29/2015 13:00:20 | 39.70 | 35.70 | 1,151 | 1.54 | 0.26 | 62.9 |
| 4/29/2015 13:00:21 | 40.03 | 36.03 | 1,151 | 1.54 | 0.26 | 62.9 |
| 4/29/2015 13:00:21 | 40.35 | 36.35 | 1,160 | 1.55 | 0.26 | 63.4 |
| 4/29/2015 13:00:21 | 40.68 | 36.68 | 1,160 | 1.55 | 0.26 | 63.4 |
| 4/29/2015 13:00:21 | 41.01 | 37.01 | 1,153 | 1.52 | 0.26 | 63.1 |
| 4/29/2015 13:00:22 | 41.34 | 37.34 | 1,160 | 1.54 | 0.26 | 63.4 |
| 4/29/2015 13:00:23 | 41.67 | 37.67 | 1,160 | 1.54 | 0.26 | 63.4 |
| 4/29/2015 13:00:23 | 41.99 | 37.99 | 1,147 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 13:00:23 | 42.32 | 38.32 | 1,147 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 13:00:23 | 42.65 | 38.65 | 1,147 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 13:00:24 | 42.98 | 38.98 | 1,119 | 1.51 | 0.26 | 61.2 |
| 4/29/2015 13:00:24 | 43.31 | 39.31 | 1,119 | 1.51 | 0.26 | 61.2 |
| 4/29/2015 13:00:24 | 43.64 | 39.64 | 1,119 | 1.52 | 0.26 | 61.2 |
| 4/29/2015 13:00:25 | 43.96 | 39.96 | 1,119 | 1.52 | 0.26 | 61.2 |
| 4/29/2015 13:00:25 | 44.29 | 40.29 | 1,121 | 1.54 | 0.26 | 61.3 |
| 4/29/2015 13:00:25 | 44.62 | 40.62 | 1,114 | 1.52 | 0.26 | 60.9 |
| 4/29/2015 13:00:26 | 44.95 | 40.95 | 1,114 | 1.52 | 0.26 | 60.9 |
| 4/29/2015 13:00:26 | 45.28 | 41.28 | 1,114 | 1.55 | 0.26 | 60.9 |
| 4/29/2015 13:00:26 | 45.60 | 41.60 | 1,114 | 1.55 | 0.26 | 60.9 |
| 4/29/2015 13:00:26 | 45.93 | 41.93 | 1,130 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 13:00:26 | 46.26 | 42.26 | 1,130 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 13:00:27 | 46.59 | 42.59 | 1,130 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 13:00:27 | 46.92 | 42.92 | 1,125 | 1.56 | 0.26 | 61.5 |
| 4/29/2015 13:00:28 | 47.24 | 43.24 | 1,125 | 1.56 | 0.26 | 61.5 |
| 4/29/2015 13:00:28 | 47.57 | 43.57 | 1,157 | 1.52 | 0.26 | 63.3 |
| 4/29/2015 13:00:28 | 47.90 | 43.90 | 1,157 | 1.53 | 0.26 | 63.3 |
| 4/29/2015 13:00:29 | 48.23 | 44.23 | 1,157 | 1.53 | 0.26 | 63.3 |
| 4/29/2015 13:00:29 | 48.56 | 44.56 | 1,153 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 13:00:29 | 48.88 | 44.88 | 1,153 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 13:00:29 | 49.21 | 45.21 | 1,153 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 13:00:30 | 49.54 | 45.54 | 1,149 | 1.61 | 0.26 | 62.9 |
| 4/29/2015 13:00:30 | 49.87 | 45.87 | 1,149 | 1.61 | 0.26 | 62.9 |
| 4/29/2015 13:00:51 | 50.20 | 46.20 | 61 | 1.67 | 1.23 | 3.4 |
| 4/29/2015 13:00:53 | 50.53 | 46.53 | 176 | 1.60 | 1.35 | 9.6 |
| 4/29/2015 13:00:54 | 50.85 | 46.85 | 266 | 1.60 | 1.13 | 14.5 |
| 4/29/2015 13:00:58 | 51.18 | 47.18 | 58 | 1.68 | 1.21 | 3.2 |
| 4/29/2015 13:01:03 | 51.51 | 47.51 | 72 | 1.66 | 1.31 | 4.0 |
| 4/29/2015 13:01:10 | 51.84 | 47.84 | 52 | 1.68 | 1.27 | 2.9 |
| 4/29/2015 13:01:18 | 52.17 | 48.17 | 46 | 1.66 | 1.30 | 2.5 |
| 4/29/2015 13:01:26 | 52.49 | 48.49 | 46 | 1.66 | 1.32 | 2.5 |
| 4/29/2015 13:01:30 | 52.67 | 48.67 | 38 | 1.65 | 1.23 | 2.1 |

## K203 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:59:04

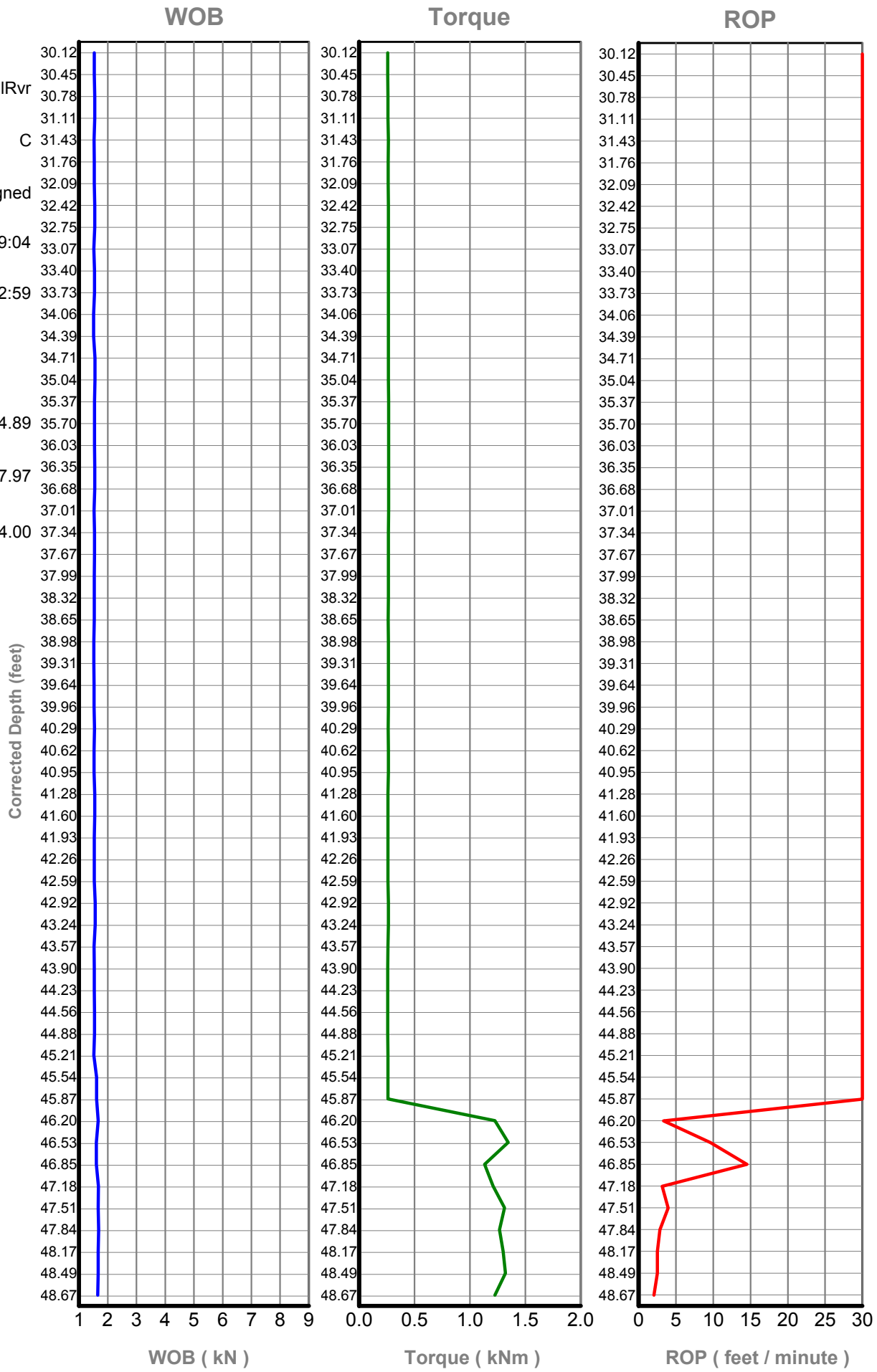
**End Date:**
4/29/2015 13:02:59

**Operator Note:**
'4 4.3 c Auto Complete'

**Northing:**
361,414.89

**Easting:**
244,877.97

**Tide (feet):**
4.00



## Hole: K204 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:43:53 | 34.45 | 30.25 | 1,119 | 1.54 | 0.26 | 61.2 |
| 4/29/2015 12:43:53 | 34.78 | 30.58 | 1,119 | 1.53 | 0.26 | 61.2 |
| 4/29/2015 12:43:54 | 35.11 | 30.91 | 1,119 | 1.53 | 0.26 | 61.2 |
| 4/29/2015 12:43:54 | 35.43 | 31.23 | 1,137 | 1.47 | 0.26 | 62.2 |
| 4/29/2015 12:43:54 | 35.76 | 31.56 | 1,137 | 1.52 | 0.25 | 62.2 |
| 4/29/2015 12:43:55 | 36.09 | 31.89 | 1,137 | 1.52 | 0.25 | 62.2 |
| 4/29/2015 12:43:55 | 36.42 | 32.22 | 1,141 | 1.54 | 0.25 | 62.4 |
| 4/29/2015 12:43:55 | 36.75 | 32.55 | 1,141 | 1.54 | 0.25 | 62.4 |
| 4/29/2015 12:43:55 | 37.07 | 32.87 | 1,137 | 1.53 | 0.26 | 62.2 |
| 4/29/2015 12:43:56 | 37.40 | 33.20 | 1,169 | 1.53 | 0.26 | 63.9 |
| 4/29/2015 12:43:56 | 37.73 | 33.53 | 1,169 | 1.53 | 0.26 | 63.9 |
| 4/29/2015 12:43:56 | 38.06 | 33.86 | 1,150 | 1.51 | 0.26 | 62.9 |
| 4/29/2015 12:43:57 | 38.39 | 34.19 | 1,150 | 1.51 | 0.26 | 62.9 |
| 4/29/2015 12:43:57 | 38.71 | 34.51 | 1,148 | 1.55 | 0.26 | 62.8 |
| 4/29/2015 12:43:57 | 39.04 | 34.84 | 1,143 | 1.51 | 0.26 | 62.5 |
| 4/29/2015 12:43:58 | 39.37 | 35.17 | 1,143 | 1.51 | 0.26 | 62.5 |
| 4/29/2015 12:43:58 | 39.70 | 35.50 | 1,150 | 1.54 | 0.26 | 62.9 |
| 4/29/2015 12:43:58 | 40.03 | 35.83 | 1,150 | 1.54 | 0.26 | 62.9 |
| 4/29/2015 12:43:58 | 40.35 | 36.15 | 1,148 | 1.51 | 0.26 | 62.8 |
| 4/29/2015 12:43:59 | 40.68 | 36.48 | 1,151 | 1.52 | 0.26 | 62.9 |
| 4/29/2015 12:43:59 | 41.01 | 36.81 | 1,151 | 1.52 | 0.26 | 62.9 |
| 4/29/2015 12:43:59 | 41.34 | 37.14 | 1,151 | 1.55 | 0.26 | 62.9 |
| 4/29/2015 12:44:00 | 41.67 | 37.47 | 1,151 | 1.55 | 0.26 | 62.9 |
| 4/29/2015 12:44:00 | 41.99 | 37.79 | 1,148 | 1.51 | 0.25 | 62.8 |
| 4/29/2015 12:44:00 | 42.32 | 38.12 | 1,145 | 1.53 | 0.25 | 62.6 |
| 4/29/2015 12:44:01 | 42.65 | 38.45 | 1,145 | 1.53 | 0.25 | 62.6 |
| 4/29/2015 12:44:01 | 42.98 | 38.78 | 1,138 | 1.55 | 0.25 | 62.2 |
| 4/29/2015 12:44:01 | 43.31 | 39.11 | 1,138 | 1.55 | 0.25 | 62.2 |
| 4/29/2015 12:44:01 | 43.64 | 39.44 | 1,136 | 1.55 | 0.25 | 62.1 |
| 4/29/2015 12:44:02 | 43.96 | 39.76 | 1,142 | 1.53 | 0.25 | 62.5 |
| 4/29/2015 12:44:02 | 44.29 | 40.09 | 1,142 | 1.53 | 0.25 | 62.5 |
| 4/29/2015 12:44:02 | 44.62 | 40.42 | 1,142 | 1.52 | 0.26 | 62.5 |
| 4/29/2015 12:44:03 | 44.95 | 40.75 | 1,142 | 1.52 | 0.26 | 62.5 |
| 4/29/2015 12:44:03 | 45.28 | 41.08 | 1,139 | 1.54 | 0.26 | 62.3 |
| 4/29/2015 12:44:04 | 45.60 | 41.40 | 1,149 | 1.55 | 0.26 | 62.8 |
| 4/29/2015 12:44:04 | 45.93 | 41.73 | 1,149 | 1.55 | 0.26 | 62.8 |
| 4/29/2015 12:44:04 | 46.26 | 42.06 | 1,142 | 1.51 | 0.26 | 62.4 |
| 4/29/2015 12:44:05 | 46.59 | 42.39 | 1,142 | 1.51 | 0.26 | 62.4 |
| 4/29/2015 12:44:05 | 46.92 | 42.72 | 1,142 | 1.55 | 0.26 | 62.4 |
| 4/29/2015 12:44:05 | 47.24 | 43.04 | 1,142 | 1.54 | 0.26 | 62.4 |
| 4/29/2015 12:44:06 | 47.57 | 43.37 | 1,142 | 1.54 | 0.26 | 62.4 |
| 4/29/2015 12:44:06 | 47.90 | 43.70 | 1,138 | 1.55 | 0.26 | 62.2 |
| 4/29/2015 12:44:06 | 48.23 | 44.03 | 1,138 | 1.55 | 0.26 | 62.2 |
| 4/29/2015 12:44:06 | 48.56 | 44.36 | 1,145 | 1.55 | 0.26 | 62.6 |
| 4/29/2015 12:44:07 | 48.88 | 44.68 | 1,142 | 1.51 | 0.26 | 62.4 |
| 4/29/2015 12:44:07 | 49.21 | 45.01 | 1,142 | 1.51 | 0.26 | 62.4 |
| 4/29/2015 12:44:29 | 49.54 | 45.34 | 11 | 1.63 | 1.17 | 0.6 |
| 4/29/2015 12:44:30 | 49.87 | 45.67 | 143 | 1.66 | 1.07 | 7.8 |
| 4/29/2015 12:44:30 | 50.20 | 46.00 | 235 | 1.61 | 0.97 | 12.8 |
| 4/29/2015 12:44:31 | 50.53 | 46.33 | 337 | 1.68 | 0.92 | 18.5 |
| 4/29/2015 12:44:31 | 50.85 | 46.65 | 468 | 1.66 | 1.02 | 25.6 |
| 4/29/2015 12:44:32 | 51.18 | 46.98 | 535 | 1.65 | 1.00 | 29.3 |
| 4/29/2015 12:44:32 | 51.51 | 47.31 | 601 | 1.62 | 0.91 | 32.9 |
| 4/29/2015 12:44:33 | 51.84 | 47.64 | 657 | 1.67 | 1.02 | 35.9 |
| 4/29/2015 12:44:33 | 52.17 | 47.97 | 691 | 1.66 | 0.95 | 37.8 |
| 4/29/2015 12:44:34 | 52.49 | 48.29 | 682 | 1.65 | 1.06 | 37.3 |
| 4/29/2015 12:45:01 | 52.82 | 48.62 | 62 | 1.68 | 0.98 | 3.4 |
| 4/29/2015 12:45:02 | 53.15 | 48.95 | 170 | 1.67 | 1.23 | 9.3 |
| 4/29/2015 12:45:02 | 53.48 | 49.28 | 267 | 1.65 | 1.16 | 14.6 |
| 4/29/2015 12:45:03 | 53.81 | 49.61 | 517 | 1.55 | 1.11 | 28.3 |
| 4/29/2015 12:45:04 | 54.13 | 49.93 | 599 | 1.64 | 0.96 | 32.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:45:04 | 54.46 | 50.26 | 599 | 1.64 | 0.96 | 32.8 |
| 4/29/2015 | 12:45:04 | 54.79 | 50.59 | 642 | 1.64 | 1.06 | 35.1 |
| 4/29/2015 | 12:45:05 | 55.12 | 50.92 | 675 | 1.66 | 1.06 | 36.9 |
| 4/29/2015 | 12:45:38 | 55.45 | 51.25 | 0 | 1.66 | 1.04 | 0.0 |
| 4/29/2015 | 12:45:39 | 55.77 | 51.57 | 127 | 1.62 | 1.12 | 6.9 |
| 4/29/2015 | 12:45:40 | 56.10 | 51.90 | 221 | 1.64 | 1.14 | 12.1 |
| 4/29/2015 | 12:45:41 | 56.43 | 52.23 | 404 | 1.62 | 1.12 | 22.1 |
| 4/29/2015 | 12:45:46 | 56.76 | 52.56 | 26 | 1.66 | 1.51 | 1.4 |
| 4/29/2015 | 12:45:47 | 57.09 | 52.89 | 96 | 1.66 | 1.17 | 5.3 |
| 4/29/2015 | 12:45:49 | 57.41 | 53.21 | 259 | 1.67 | 1.27 | 14.2 |
| 4/29/2015 | 12:45:50 | 57.74 | 53.54 | 328 | 1.64 | 1.22 | 17.9 |
| 4/29/2015 | 12:46:59 | 58.07 | 53.87 | 58 | 1.65 | 1.18 | 3.2 |
| 4/29/2015 | 12:47:05 | 58.40 | 54.20 | 61 | 1.66 | 1.21 | 3.4 |
| 4/29/2015 | 12:47:11 | 58.73 | 54.53 | 61 | 1.68 | 1.18 | 3.3 |
| 4/29/2015 | 12:47:16 | 59.05 | 54.85 | 61 | 1.66 | 1.24 | 3.3 |

## K204 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:42:40

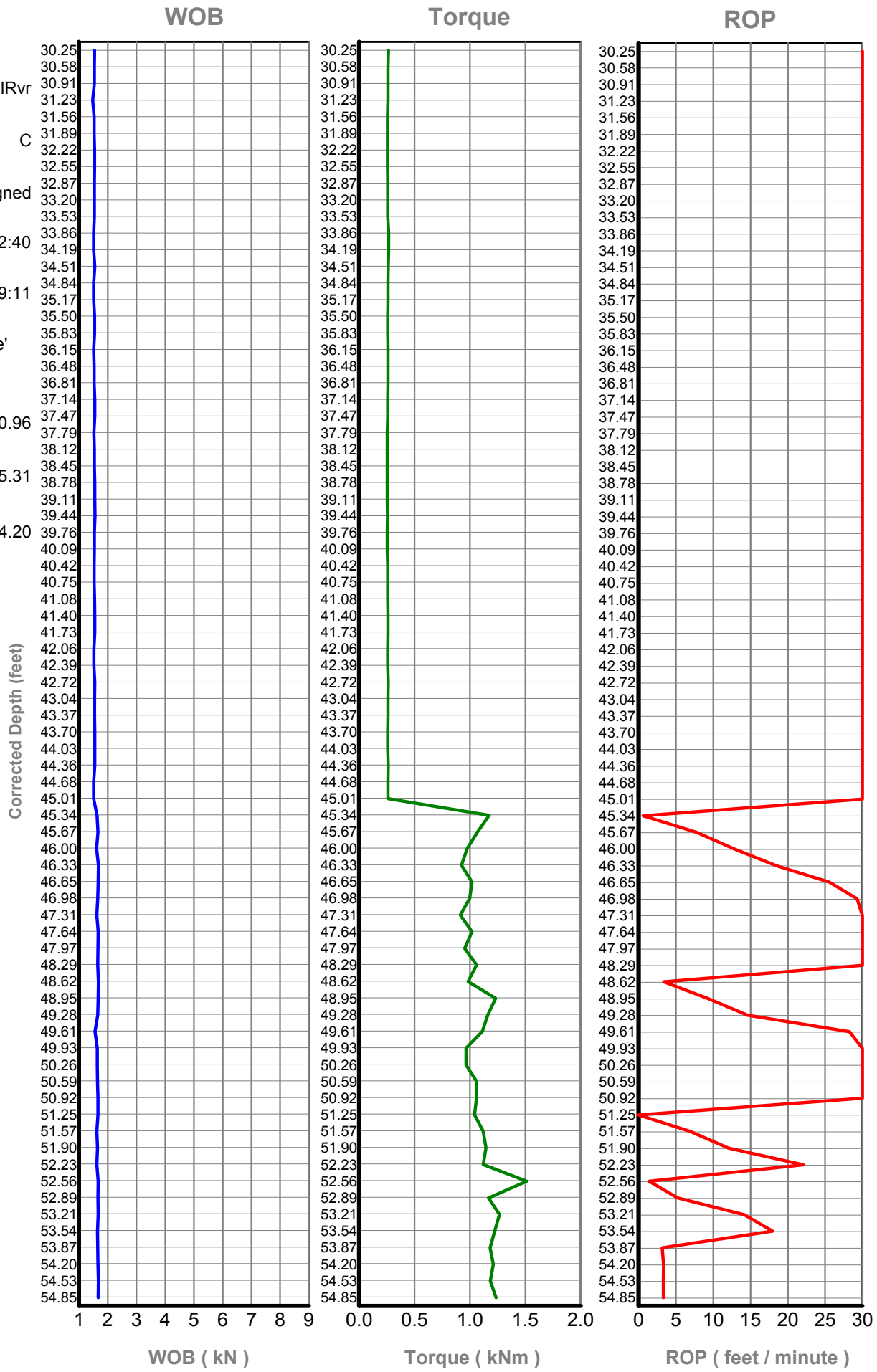
**End Date:**
4/29/2015 12:49:11

**Operator Note:**
'4.2 4.6 c Auto Complete'

**Northing:**
361,470.96

**Easting:**
244,935.31

**Tide (feet):**
4.20



## Hole: K205 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:54:59 | 35.11 | 30.01 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 11:54:59 | 35.43 | 30.33 | 954 | 1.08 | 0.13 | 52.2 |
| 4/29/2015 11:55:00 | 35.76 | 30.66 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:55:00 | 36.09 | 30.99 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:55:00 | 36.42 | 31.32 | 957 | 1.05 | 0.13 | 52.3 |
| 4/29/2015 11:55:01 | 36.75 | 31.65 | 957 | 1.04 | 0.13 | 52.3 |
| 4/29/2015 11:55:02 | 37.07 | 31.97 | 957 | 1.04 | 0.13 | 52.3 |
| 4/29/2015 11:55:02 | 37.40 | 32.30 | 957 | 1.06 | 0.13 | 52.3 |
| 4/29/2015 11:55:02 | 37.73 | 32.63 | 963 | 1.06 | 0.13 | 52.6 |
| 4/29/2015 11:55:03 | 38.06 | 32.96 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:55:03 | 38.39 | 33.29 | 960 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 11:55:03 | 38.71 | 33.61 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 11:55:04 | 39.04 | 33.94 | 943 | 1.06 | 0.13 | 51.6 |
| 4/29/2015 11:55:04 | 39.37 | 34.27 | 943 | 1.06 | 0.13 | 51.6 |
| 4/29/2015 11:55:04 | 39.70 | 34.60 | 943 | 1.10 | 0.13 | 51.6 |
| 4/29/2015 11:55:05 | 40.03 | 34.93 | 955 | 1.06 | 0.13 | 52.2 |
| 4/29/2015 11:55:05 | 40.35 | 35.25 | 952 | 1.05 | 0.13 | 52.1 |
| 4/29/2015 11:55:06 | 40.68 | 35.58 | 952 | 1.05 | 0.13 | 52.1 |
| 4/29/2015 11:55:06 | 41.01 | 35.91 | 946 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:55:06 | 41.34 | 36.24 | 947 | 1.06 | 0.13 | 51.8 |
| 4/29/2015 11:55:07 | 41.67 | 36.57 | 947 | 1.06 | 0.13 | 51.8 |
| 4/29/2015 11:55:07 | 41.99 | 36.89 | 963 | 1.06 | 0.13 | 52.6 |
| 4/29/2015 11:55:07 | 42.32 | 37.22 | 951 | 1.08 | 0.13 | 52.0 |
| 4/29/2015 11:55:08 | 42.65 | 37.55 | 945 | 1.06 | 0.13 | 51.7 |
| 4/29/2015 11:55:08 | 42.98 | 37.88 | 945 | 1.06 | 0.13 | 51.7 |
| 4/29/2015 11:55:08 | 43.31 | 38.21 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 11:55:09 | 43.64 | 38.54 | 951 | 1.06 | 0.13 | 52.0 |
| 4/29/2015 11:55:09 | 43.96 | 38.86 | 951 | 1.06 | 0.13 | 52.0 |
| 4/29/2015 11:55:09 | 44.29 | 39.19 | 951 | 1.06 | 0.13 | 52.0 |
| 4/29/2015 11:55:10 | 44.62 | 39.52 | 948 | 1.06 | 0.13 | 51.9 |
| 4/29/2015 11:55:10 | 44.95 | 39.85 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 11:55:11 | 45.28 | 40.18 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 11:55:11 | 45.60 | 40.50 | 948 | 1.07 | 0.13 | 51.8 |
| 4/29/2015 11:55:12 | 45.93 | 40.83 | 948 | 1.07 | 0.13 | 51.8 |
| 4/29/2015 11:55:12 | 46.26 | 41.16 | 940 | 1.06 | 0.13 | 51.4 |
| 4/29/2015 11:55:13 | 46.59 | 41.49 | 940 | 1.06 | 0.13 | 51.4 |
| 4/29/2015 11:55:13 | 46.92 | 41.82 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:55:13 | 47.24 | 42.14 | 945 | 1.08 | 0.13 | 51.7 |
| 4/29/2015 11:55:14 | 47.57 | 42.47 | 945 | 1.08 | 0.13 | 51.7 |
| 4/29/2015 11:55:14 | 47.90 | 42.80 | 942 | 1.06 | 0.13 | 51.5 |
| 4/29/2015 11:55:14 | 48.23 | 43.13 | 942 | 1.07 | 0.13 | 51.5 |
| 4/29/2015 11:55:15 | 48.56 | 43.46 | 919 | 1.06 | 0.13 | 50.3 |
| 4/29/2015 11:55:15 | 48.88 | 43.78 | 919 | 1.06 | 0.13 | 50.3 |
| 4/29/2015 11:55:15 | 49.21 | 44.11 | 919 | 1.07 | 0.13 | 50.3 |
| 4/29/2015 11:55:16 | 49.54 | 44.44 | 933 | 1.14 | 0.14 | 51.0 |
| 4/29/2015 11:55:21 | 49.87 | 44.77 | 3 | 1.02 | 0.81 | 0.2 |
| 4/29/2015 11:55:27 | 50.20 | 45.10 | 19 | 1.11 | 0.69 | 1.0 |
| 4/29/2015 11:55:27 | 50.53 | 45.43 | 127 | 1.11 | 1.06 | 7.0 |
| 4/29/2015 11:55:30 | 50.85 | 45.75 | 120 | 1.77 | 0.95 | 6.6 |
| 4/29/2015 11:55:32 | 51.18 | 46.08 | 212 | 1.00 | 0.63 | 11.6 |
| 4/29/2015 11:55:33 | 51.51 | 46.41 | 284 | 1.72 | 1.09 | 15.5 |
| 4/29/2015 11:55:34 | 51.84 | 46.74 | 284 | 1.72 | 1.09 | 15.5 |
| 4/29/2015 11:55:34 | 52.17 | 47.07 | 417 | 1.57 | 0.66 | 22.8 |
| 4/29/2015 11:55:35 | 52.49 | 47.39 | 462 | 1.66 | 1.06 | 25.3 |
| 4/29/2015 11:55:36 | 52.82 | 47.72 | 350 | 1.74 | 1.87 | 19.2 |
| 4/29/2015 11:55:38 | 53.15 | 48.05 | 160 | 1.93 | 1.61 | 8.8 |
| 4/29/2015 11:55:39 | 53.48 | 48.38 | 253 | 1.05 | 1.03 | 13.9 |
| 4/29/2015 11:55:40 | 53.81 | 48.71 | 318 | 1.05 | 1.35 | 17.4 |
| 4/29/2015 11:55:42 | 54.13 | 49.03 | 292 | 1.05 | 1.24 | 16.0 |
| 4/29/2015 11:55:44 | 54.46 | 49.36 | 266 | 1.08 | 1.18 | 14.6 |
| 4/29/2015 11:55:45 | 54.79 | 49.69 | 243 | 1.11 | 1.30 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:55:46 | 55.12 | 50.02 | 247 | 1.15 | 1.26 | 13.5 |
| 4/29/2015 | 11:55:47 | 55.45 | 50.35 | 279 | 1.02 | 0.79 | 15.2 |
| 4/29/2015 | 11:55:48 | 55.77 | 50.67 | 300 | 1.02 | 0.78 | 16.4 |
| 4/29/2015 | 11:55:49 | 56.10 | 51.00 | 383 | 1.05 | 0.76 | 21.0 |
| 4/29/2015 | 11:55:50 | 56.43 | 51.33 | 356 | 1.08 | 0.95 | 19.4 |
| 4/29/2015 | 11:55:52 | 56.76 | 51.66 | 310 | 0.94 | 1.58 | 16.9 |
| 4/29/2015 | 11:55:56 | 57.09 | 51.99 | 77 | 1.17 | 1.62 | 4.2 |
| 4/29/2015 | 11:56:04 | 57.41 | 52.31 | 72 | 1.07 | 1.42 | 3.9 |
| 4/29/2015 | 11:56:10 | 57.74 | 52.64 | 0 | 2.01 | 1.32 | 0.0 |
| 4/29/2015 | 11:56:13 | 58.07 | 52.97 | 160 | 0.99 | 1.50 | 8.8 |
| 4/29/2015 | 11:56:15 | 58.40 | 53.30 | 190 | 0.37 | 0.85 | 10.4 |
| 4/29/2015 | 11:56:16 | 58.73 | 53.63 | 201 | 0.41 | 0.76 | 11.0 |
| 4/29/2015 | 11:56:18 | 59.06 | 53.96 | 245 | 1.05 | 1.20 | 13.4 |
| 4/29/2015 | 11:56:20 | 59.38 | 54.28 | 182 | 1.22 | 1.48 | 9.9 |
| 4/29/2015 | 11:56:21 | 59.71 | 54.61 | 166 | 1.69 | 1.15 | 9.1 |
| 4/29/2015 | 11:56:22 | 60.04 | 54.94 | 231 | 1.09 | 1.48 | 12.6 |
| 4/29/2015 | 11:56:25 | 60.37 | 55.27 | 266 | 0.96 | 1.05 | 14.5 |
| 4/29/2015 | 11:56:26 | 60.68 | 55.58 | 224 | 0.41 | 1.29 | 12.3 |

## K205 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:53:38

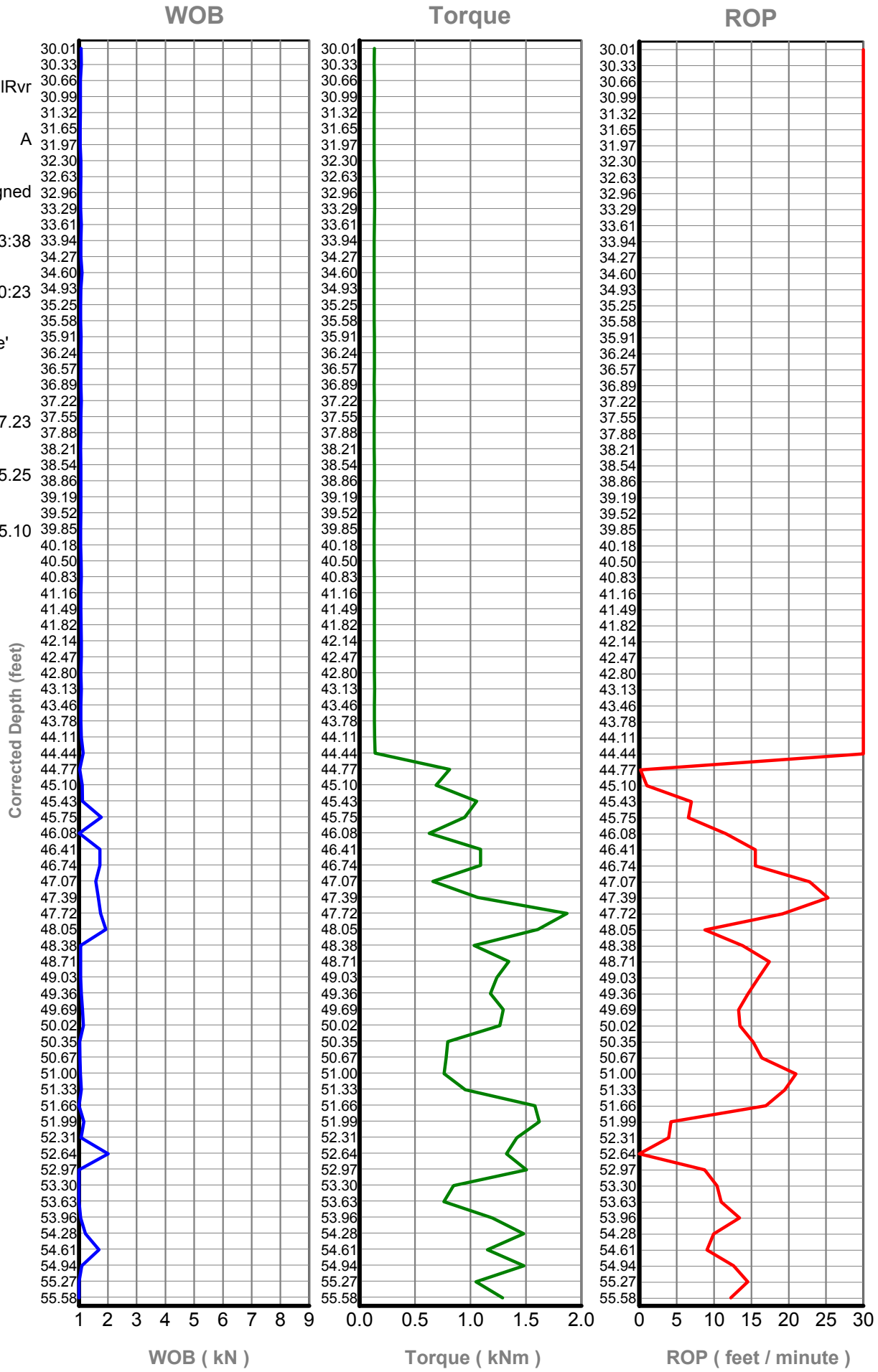
**End Date:**
4/29/2015 12:00:23

**Operator Note:**
'5.1 5.5 a Auto Complete'

**Northing:**
361,727.23

**Easting:**
245,245.25

**Tide (feet):**
5.10



## Hole: K206 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:10:10 | 35.11 | 30.21 | 929 | 1.07 | 0.13 | 50.8 |
| 4/29/2015 12:10:10 | 35.43 | 30.53 | 929 | 1.07 | 0.13 | 50.8 |
| 4/29/2015 12:10:10 | 35.76 | 30.86 | 929 | 1.07 | 0.13 | 50.8 |
| 4/29/2015 12:10:11 | 36.09 | 31.19 | 917 | 1.05 | 0.13 | 50.1 |
| 4/29/2015 12:10:11 | 36.42 | 31.52 | 919 | 1.05 | 0.13 | 50.3 |
| 4/29/2015 12:10:12 | 36.75 | 31.85 | 919 | 1.05 | 0.13 | 50.3 |
| 4/29/2015 12:10:12 | 37.07 | 32.17 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 12:10:12 | 37.40 | 32.50 | 921 | 1.05 | 0.13 | 50.4 |
| 4/29/2015 12:10:13 | 37.73 | 32.83 | 915 | 1.06 | 0.13 | 50.0 |
| 4/29/2015 12:10:13 | 38.06 | 33.16 | 915 | 1.06 | 0.13 | 50.0 |
| 4/29/2015 12:10:13 | 38.39 | 33.49 | 915 | 1.06 | 0.13 | 50.0 |
| 4/29/2015 12:10:14 | 38.71 | 33.81 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 12:10:14 | 39.04 | 34.14 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 12:10:14 | 39.37 | 34.47 | 933 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 12:10:15 | 39.70 | 34.80 | 943 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 12:10:15 | 40.03 | 35.13 | 922 | 1.07 | 0.13 | 50.4 |
| 4/29/2015 12:10:16 | 40.35 | 35.45 | 922 | 1.07 | 0.13 | 50.4 |
| 4/29/2015 12:10:16 | 40.68 | 35.78 | 936 | 1.07 | 0.13 | 51.2 |
| 4/29/2015 12:10:17 | 41.01 | 36.11 | 936 | 1.04 | 0.13 | 51.2 |
| 4/29/2015 12:10:17 | 41.34 | 36.44 | 928 | 1.05 | 0.13 | 50.8 |
| 4/29/2015 12:10:17 | 41.67 | 36.77 | 928 | 1.05 | 0.13 | 50.8 |
| 4/29/2015 12:10:18 | 41.99 | 37.09 | 928 | 1.06 | 0.13 | 50.8 |
| 4/29/2015 12:10:18 | 42.32 | 37.42 | 924 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 12:10:19 | 42.65 | 37.75 | 924 | 1.04 | 0.13 | 50.5 |
| 4/29/2015 12:10:19 | 42.98 | 38.08 | 924 | 1.04 | 0.13 | 50.5 |
| 4/29/2015 12:10:19 | 43.31 | 38.41 | 916 | 1.06 | 0.13 | 50.1 |
| 4/29/2015 12:10:20 | 43.64 | 38.74 | 924 | 1.05 | 0.13 | 50.5 |
| 4/29/2015 12:10:20 | 43.96 | 39.06 | 924 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 12:10:21 | 44.29 | 39.39 | 924 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 12:10:21 | 44.62 | 39.72 | 934 | 1.05 | 0.13 | 51.1 |
| 4/29/2015 12:10:21 | 44.95 | 40.05 | 942 | 1.05 | 0.13 | 51.5 |
| 4/29/2015 12:10:22 | 45.28 | 40.38 | 942 | 1.05 | 0.13 | 51.5 |
| 4/29/2015 12:10:22 | 45.60 | 40.70 | 941 | 1.06 | 0.13 | 51.4 |
| 4/29/2015 12:10:22 | 45.93 | 41.03 | 933 | 1.06 | 0.13 | 51.0 |
| 4/29/2015 12:10:23 | 46.26 | 41.36 | 938 | 1.05 | 0.13 | 51.3 |
| 4/29/2015 12:10:23 | 46.59 | 41.69 | 938 | 1.05 | 0.13 | 51.3 |
| 4/29/2015 12:10:23 | 46.92 | 42.02 | 922 | 1.05 | 0.13 | 50.4 |
| 4/29/2015 12:10:24 | 47.24 | 42.34 | 911 | 1.07 | 0.13 | 49.8 |
| 4/29/2015 12:10:24 | 47.57 | 42.67 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 12:10:25 | 47.90 | 43.00 | 923 | 1.06 | 0.13 | 50.5 |
| 4/29/2015 12:10:25 | 48.23 | 43.33 | 923 | 1.07 | 0.13 | 50.5 |
| 4/29/2015 12:10:25 | 48.56 | 43.66 | 920 | 1.05 | 0.13 | 50.3 |
| 4/29/2015 12:10:26 | 48.88 | 43.98 | 905 | 1.05 | 0.13 | 49.5 |
| 4/29/2015 12:10:26 | 49.21 | 44.31 | 905 | 1.05 | 0.13 | 49.5 |
| 4/29/2015 12:10:26 | 49.54 | 44.64 | 919 | 1.08 | 0.13 | 50.2 |
| 4/29/2015 12:10:37 | 49.87 | 44.97 | 6 | 1.07 | 1.07 | 0.3 |
| 4/29/2015 12:10:41 | 50.20 | 45.30 | 38 | 1.93 | 0.95 | 2.1 |
| 4/29/2015 12:10:42 | 50.53 | 45.63 | 170 | 1.05 | 0.72 | 9.3 |
| 4/29/2015 12:10:43 | 50.85 | 45.95 | 290 | 1.03 | 0.80 | 15.8 |
| 4/29/2015 12:10:44 | 51.18 | 46.28 | 322 | 1.85 | 0.87 | 17.6 |
| 4/29/2015 12:10:45 | 51.51 | 46.61 | 387 | 0.49 | 1.14 | 21.2 |
| 4/29/2015 12:10:46 | 51.84 | 46.94 | 282 | 2.01 | 1.59 | 15.4 |
| 4/29/2015 12:10:50 | 52.17 | 47.27 | 107 | 1.91 | 0.97 | 5.9 |
| 4/29/2015 12:10:52 | 52.49 | 47.59 | 114 | 1.02 | 1.13 | 6.2 |
| 4/29/2015 12:10:53 | 52.82 | 47.92 | 199 | 1.03 | 1.20 | 10.9 |
| 4/29/2015 12:10:54 | 53.15 | 48.25 | 250 | 0.98 | 1.36 | 13.7 |
| 4/29/2015 12:10:55 | 53.48 | 48.58 | 298 | 1.03 | 0.83 | 16.3 |
| 4/29/2015 12:10:56 | 53.81 | 48.91 | 319 | 0.96 | 0.96 | 17.4 |
| 4/29/2015 12:10:57 | 54.13 | 49.23 | 331 | 1.04 | 0.88 | 18.1 |
| 4/29/2015 12:10:58 | 54.46 | 49.56 | 379 | 1.09 | 0.76 | 20.7 |
| 4/29/2015 12:10:59 | 54.79 | 49.89 | 399 | 1.07 | 0.78 | 21.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:11:00 | 55.12 | 50.22 | 416 | 1.04 | 0.97 | 22.8 |
| 4/29/2015 | 12:11:02 | 55.45 | 50.55 | 327 | 1.09 | 0.94 | 17.9 |
| 4/29/2015 | 12:11:04 | 55.77 | 50.87 | 182 | 1.13 | 1.05 | 9.9 |
| 4/29/2015 | 12:11:07 | 56.10 | 51.20 | 139 | 1.00 | 0.76 | 7.6 |
| 4/29/2015 | 12:11:07 | 56.43 | 51.53 | 183 | 1.00 | 0.74 | 10.0 |
| 4/29/2015 | 12:11:08 | 56.76 | 51.86 | 275 | 1.00 | 0.76 | 15.0 |
| 4/29/2015 | 12:11:09 | 57.09 | 52.19 | 366 | 1.05 | 0.85 | 20.0 |
| 4/29/2015 | 12:11:10 | 57.41 | 52.51 | 408 | 1.02 | 0.79 | 22.3 |
| 4/29/2015 | 12:11:14 | 57.74 | 52.84 | 31 | 1.38 | 0.76 | 1.7 |
| 4/29/2015 | 12:11:15 | 58.07 | 53.17 | 57 | 1.09 | 0.99 | 3.1 |
| 4/29/2015 | 12:11:19 | 58.40 | 53.50 | 94 | 0.97 | 1.62 | 5.1 |
| 4/29/2015 | 12:11:21 | 58.73 | 53.83 | 190 | 1.09 | 1.18 | 10.4 |
| 4/29/2015 | 12:11:23 | 59.06 | 54.16 | 210 | 1.01 | 1.31 | 11.5 |
| 4/29/2015 | 12:11:24 | 59.38 | 54.48 | 211 | 0.98 | 1.56 | 11.5 |
| 4/29/2015 | 12:11:26 | 59.71 | 54.81 | 199 | 1.07 | 1.44 | 10.9 |
| 4/29/2015 | 12:11:28 | 60.04 | 55.14 | 208 | 1.05 | 1.08 | 11.4 |
| 4/29/2015 | 12:11:31 | 60.37 | 55.47 | 152 | 0.81 | 1.24 | 8.3 |
| 4/29/2015 | 12:11:31 | 60.43 | 55.53 | 152 | 0.81 | 1.24 | 8.3 |

## K206 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:08:38

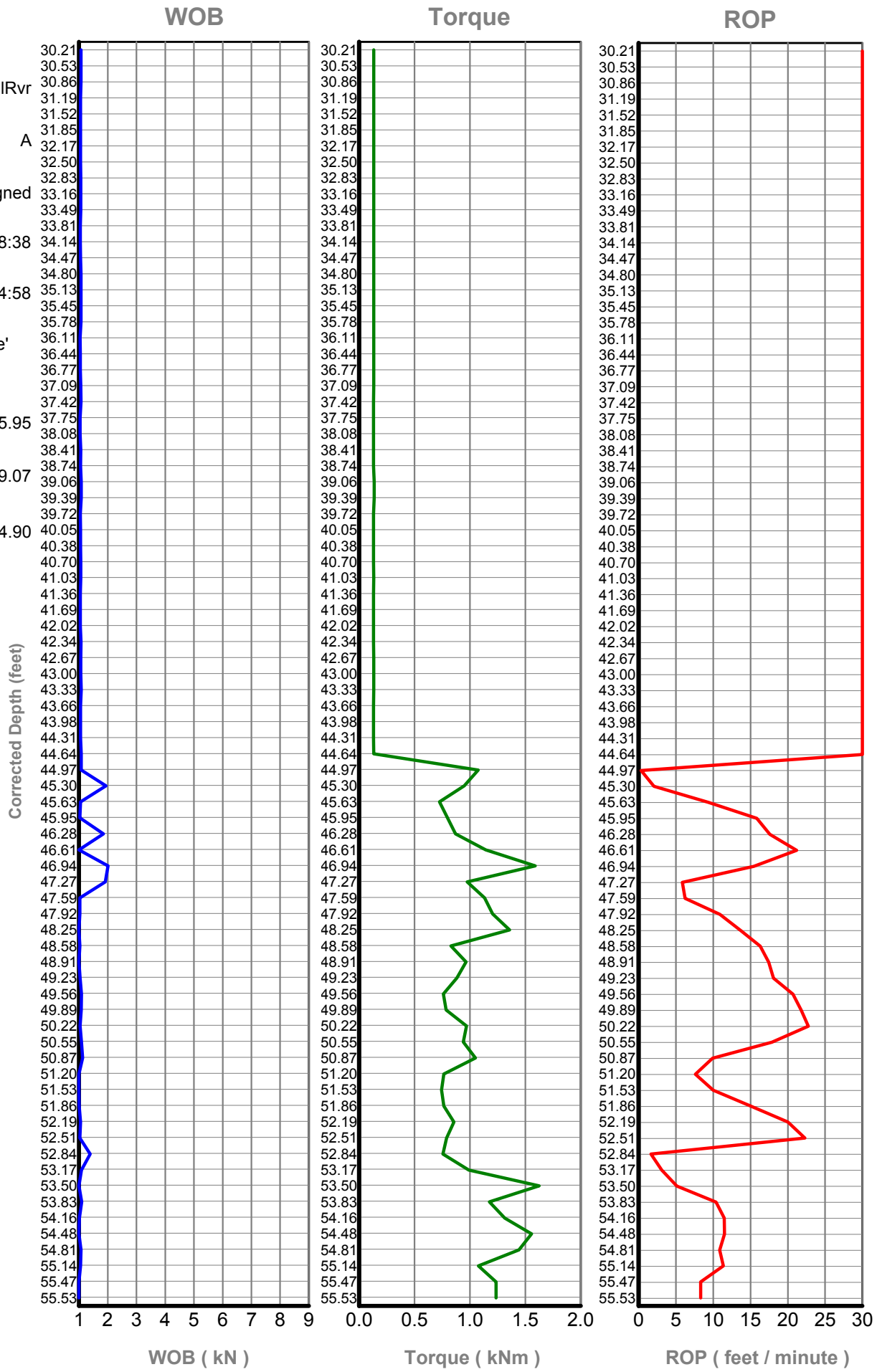
**End Date:**
4/29/2015 12:14:58

**Operator Note:**
'4.9 5.3 a Auto Complete'

**Northing:**
361,785.95

**Easting:**
245,299.07

**Tide (feet):**
4.90



## Hole: K207 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:57:22 | 31.82 | 30.12 | 1,203 | 1.43 | 0.81 | 65.8 |
| 4/30/2015 3:57:22 | 32.15 | 30.45 | 1,150 | 1.45 | 0.82 | 62.9 |
| 4/30/2015 3:57:23 | 32.48 | 30.78 | 1,082 | 1.43 | 0.79 | 59.2 |
| 4/30/2015 3:57:23 | 32.81 | 31.11 | 1,082 | 1.43 | 0.79 | 59.2 |
| 4/30/2015 3:57:23 | 33.14 | 31.44 | 1,021 | 1.43 | 0.79 | 55.8 |
| 4/30/2015 3:57:24 | 33.46 | 31.76 | 951 | 1.43 | 0.86 | 52.0 |
| 4/30/2015 3:57:24 | 33.79 | 32.09 | 867 | 1.44 | 0.83 | 47.4 |
| 4/30/2015 3:57:25 | 34.12 | 32.42 | 867 | 1.44 | 0.84 | 47.4 |
| 4/30/2015 3:57:25 | 34.45 | 32.75 | 867 | 1.44 | 0.84 | 47.4 |
| 4/30/2015 3:57:25 | 34.78 | 33.08 | 859 | 1.45 | 0.83 | 47.0 |
| 4/30/2015 3:57:26 | 35.11 | 33.41 | 858 | 1.44 | 0.79 | 46.9 |
| 4/30/2015 3:57:26 | 35.43 | 33.73 | 852 | 1.45 | 0.85 | 46.6 |
| 4/30/2015 3:57:27 | 35.76 | 34.06 | 845 | 1.44 | 0.82 | 46.2 |
| 4/30/2015 3:57:27 | 36.09 | 34.39 | 845 | 1.44 | 0.82 | 46.2 |
| 4/30/2015 3:57:27 | 36.42 | 34.72 | 862 | 1.45 | 0.80 | 47.2 |
| 4/30/2015 3:57:28 | 36.75 | 35.05 | 850 | 1.45 | 0.83 | 46.5 |
| 4/30/2015 3:57:28 | 37.07 | 35.37 | 855 | 1.46 | 0.82 | 46.8 |
| 4/30/2015 3:57:29 | 37.40 | 35.70 | 853 | 1.47 | 0.85 | 46.6 |
| 4/30/2015 3:57:30 | 37.73 | 36.03 | 853 | 1.47 | 0.85 | 46.6 |
| 4/30/2015 3:57:30 | 38.06 | 36.36 | 856 | 1.45 | 0.83 | 46.8 |
| 4/30/2015 3:57:30 | 38.39 | 36.69 | 855 | 1.49 | 0.82 | 46.8 |
| 4/30/2015 3:57:31 | 38.71 | 37.01 | 867 | 1.40 | 0.82 | 47.4 |
| 4/30/2015 3:57:31 | 39.04 | 37.34 | 879 | 0.82 | 0.79 | 48.1 |
| 4/30/2015 3:57:33 | 39.37 | 37.67 | 457 | 1.13 | 0.78 | 25.0 |
| 4/30/2015 3:57:33 | 39.70 | 38.00 | 408 | 1.12 | 0.78 | 22.3 |
| 4/30/2015 3:57:34 | 40.03 | 38.33 | 357 | 1.19 | 0.80 | 19.5 |
| 4/30/2015 3:57:34 | 40.35 | 38.65 | 424 | 1.14 | 0.77 | 23.2 |
| 4/30/2015 3:57:35 | 40.68 | 38.98 | 559 | 1.16 | 0.82 | 30.5 |
| 4/30/2015 3:57:35 | 41.01 | 39.31 | 668 | 1.13 | 0.81 | 36.5 |
| 4/30/2015 3:57:36 | 41.34 | 39.64 | 668 | 1.15 | 0.76 | 36.5 |
| 4/30/2015 3:57:36 | 41.67 | 39.97 | 677 | 1.14 | 0.76 | 37.0 |
| 4/30/2015 3:57:37 | 41.99 | 40.29 | 684 | 1.11 | 0.76 | 37.4 |
| 4/30/2015 3:57:37 | 42.32 | 40.62 | 683 | 1.11 | 0.74 | 37.3 |
| 4/30/2015 3:57:38 | 42.65 | 40.95 | 689 | 1.12 | 0.79 | 37.7 |
| 4/30/2015 3:57:38 | 42.98 | 41.28 | 703 | 1.13 | 0.80 | 38.4 |
| 4/30/2015 3:57:39 | 43.31 | 41.61 | 697 | 1.11 | 0.77 | 38.1 |
| 4/30/2015 3:57:40 | 43.64 | 41.94 | 689 | 1.12 | 0.77 | 37.7 |
| 4/30/2015 3:57:40 | 43.96 | 42.26 | 700 | 1.12 | 0.78 | 38.3 |
| 4/30/2015 3:57:41 | 44.29 | 42.59 | 697 | 1.12 | 0.20 | 38.1 |
| 4/30/2015 3:57:41 | 44.62 | 42.92 | 700 | 1.12 | 0.20 | 38.3 |
| 4/30/2015 3:57:42 | 44.95 | 43.25 | 703 | 1.13 | 0.20 | 38.4 |
| 4/30/2015 3:57:42 | 45.28 | 43.58 | 713 | 1.12 | 0.17 | 39.0 |
| 4/30/2015 3:57:43 | 45.60 | 43.90 | 711 | 1.13 | 0.20 | 38.9 |
| 4/30/2015 3:57:43 | 45.93 | 44.23 | 714 | 1.11 | 0.20 | 39.0 |
| 4/30/2015 3:57:44 | 46.26 | 44.56 | 699 | 1.13 | 0.20 | 38.2 |
| 4/30/2015 3:57:44 | 46.59 | 44.89 | 699 | 1.11 | 0.20 | 38.2 |
| 4/30/2015 3:57:45 | 46.92 | 45.22 | 699 | 1.11 | 0.20 | 38.2 |
| 4/30/2015 3:57:45 | 47.24 | 45.54 | 710 | 1.11 | 0.20 | 38.8 |
| 4/30/2015 3:57:45 | 47.57 | 45.87 | 711 | 1.11 | 0.20 | 38.9 |
| 4/30/2015 3:57:54 | 47.90 | 46.20 | 0 | 1.14 | 0.77 | 0.0 |
| 4/30/2015 3:57:59 | 48.23 | 46.53 | 9 | 1.12 | 1.14 | 0.5 |
| 4/30/2015 3:58:01 | 48.56 | 46.86 | 142 | 1.20 | 1.38 | 7.8 |
| 4/30/2015 3:58:03 | 48.88 | 47.18 | 206 | 1.17 | 1.51 | 11.3 |
| 4/30/2015 3:58:04 | 49.21 | 47.51 | 242 | 1.08 | 1.91 | 13.2 |
| 4/30/2015 3:58:06 | 49.54 | 47.84 | 230 | 1.09 | 1.62 | 12.6 |
| 4/30/2015 3:58:07 | 49.87 | 48.17 | 233 | 1.19 | 1.43 | 12.7 |
| 4/30/2015 3:58:09 | 50.20 | 48.50 | 160 | 1.17 | 1.68 | 8.7 |
| 4/30/2015 3:58:12 | 50.53 | 48.83 | 151 | 1.15 | 1.23 | 8.2 |
| 4/30/2015 3:58:14 | 50.85 | 49.15 | 127 | 1.16 | 1.73 | 7.0 |
| 4/30/2015 3:58:16 | 51.18 | 49.48 | 179 | 1.10 | 1.27 | 9.8 |
| 4/30/2015 3:58:18 | 51.51 | 49.81 | 201 | 1.59 | 1.26 | 11.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:58:18 | 51.84 | 50.14 | 230 | 1.15 | 1.07 | 12.6 |
| 4/30/2015 | 3:58:19 | 52.17 | 50.47 | 349 | 1.04 | 0.76 | 19.1 |
| 4/30/2015 | 3:58:20 | 52.49 | 50.79 | 400 | 1.07 | 0.81 | 21.9 |
| 4/30/2015 | 3:59:40 | 52.82 | 51.12 | 76 | 1.11 | 0.87 | 4.1 |
| 4/30/2015 | 3:59:41 | 53.15 | 51.45 | 205 | 1.11 | 0.83 | 11.2 |
| 4/30/2015 | 4:00:59 | 53.48 | 51.78 | 51 | 1.07 | 1.13 | 2.8 |
| 4/30/2015 | 4:01:01 | 53.81 | 52.11 | 114 | 1.06 | 1.57 | 6.2 |
| 4/30/2015 | 4:01:03 | 54.13 | 52.43 | 188 | 1.05 | 1.26 | 10.3 |
| 4/30/2015 | 4:01:04 | 54.46 | 52.76 | 202 | 0.98 | 0.97 | 11.0 |
| 4/30/2015 | 4:01:05 | 54.79 | 53.09 | 307 | 1.13 | 0.75 | 16.8 |
| 4/30/2015 | 4:01:05 | 55.12 | 53.42 | 364 | 1.14 | 0.81 | 19.9 |
| 4/30/2015 | 4:01:10 | 55.45 | 53.75 | 19 | 1.11 | 0.79 | 1.0 |
| 4/30/2015 | 4:01:11 | 55.77 | 54.07 | 94 | 1.09 | 0.99 | 5.1 |
| 4/30/2015 | 4:01:12 | 56.10 | 54.40 | 160 | 1.09 | 1.12 | 8.8 |
| 4/30/2015 | 4:01:13 | 56.43 | 54.73 | 312 | 1.19 | 1.09 | 17.1 |
| 4/30/2015 | 4:01:18 | 56.76 | 55.06 | 100 | 1.18 | 1.19 | 5.5 |
| 4/30/2015 | 4:01:18 | 56.85 | 55.15 | 100 | 1.18 | 1.19 | 5.5 |

## K207 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/30/2015 3:54:21

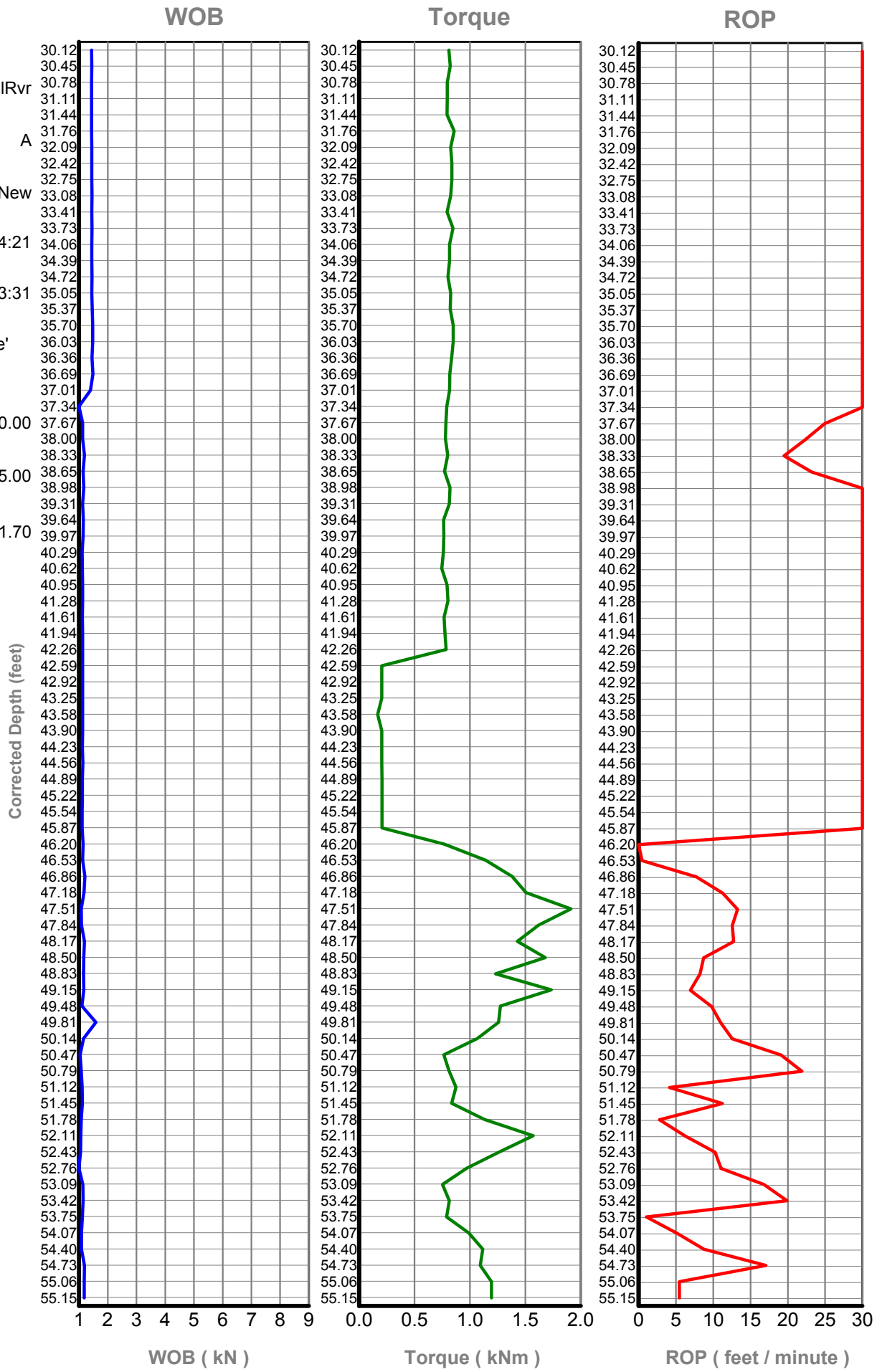
**End Date:**
4/30/2015 4:03:31

**Operator Note:**
'1.7 1.7 b Auto Complete'

**Northing:**
361,780.00

**Easting:**
245,325.00

**Tide (feet):**
1.70



## Hole: K208 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:55:52 | 31.82 | 30.12 | 1,041 | 0.37 | 0.38 | 56.9 |
| 4/30/2015 3:55:52 | 32.15 | 30.45 | 1,032 | 0.37 | 0.38 | 56.4 |
| 4/30/2015 3:55:53 | 32.48 | 30.78 | 1,038 | 0.37 | 0.39 | 56.8 |
| 4/30/2015 3:55:53 | 32.81 | 31.11 | 1,038 | 0.37 | 0.39 | 56.8 |
| 4/30/2015 3:55:53 | 33.14 | 31.44 | 1,038 | 0.37 | 0.38 | 56.8 |
| 4/30/2015 3:55:54 | 33.46 | 31.76 | 1,041 | 0.36 | 0.39 | 56.9 |
| 4/30/2015 3:55:55 | 33.79 | 32.09 | 1,041 | 0.36 | 0.39 | 56.9 |
| 4/30/2015 3:55:54 | 34.12 | 32.42 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 3:55:55 | 34.45 | 32.75 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 3:55:55 | 34.78 | 33.08 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 3:55:55 | 35.11 | 33.41 | 1,044 | 0.37 | 0.39 | 57.1 |
| 4/30/2015 3:55:56 | 35.43 | 33.73 | 1,041 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 3:55:57 | 35.76 | 34.06 | 1,041 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 3:55:57 | 36.09 | 34.39 | 1,032 | 0.35 | 0.39 | 56.5 |
| 4/30/2015 3:55:57 | 36.42 | 34.72 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/30/2015 3:55:58 | 36.75 | 35.05 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/30/2015 3:55:58 | 37.07 | 35.37 | 1,015 | 0.37 | 0.39 | 55.5 |
| 4/30/2015 3:55:58 | 37.40 | 35.70 | 1,046 | 0.37 | 0.38 | 57.2 |
| 4/30/2015 3:55:59 | 37.73 | 36.03 | 1,046 | 0.37 | 0.38 | 57.2 |
| 4/30/2015 3:55:59 | 38.06 | 36.36 | 1,031 | 0.37 | 0.38 | 56.4 |
| 4/30/2015 3:55:59 | 38.39 | 36.69 | 1,037 | 0.37 | 0.38 | 56.7 |
| 4/30/2015 3:56:00 | 38.71 | 37.01 | 1,037 | 0.37 | 0.38 | 56.7 |
| 4/30/2015 3:56:00 | 39.04 | 37.34 | 1,027 | 0.37 | 0.38 | 56.2 |
| 4/30/2015 3:56:00 | 39.37 | 37.67 | 1,027 | 0.37 | 0.38 | 56.2 |
| 4/30/2015 3:56:00 | 39.70 | 38.00 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 3:56:01 | 40.03 | 38.33 | 1,053 | 0.37 | 0.38 | 57.6 |
| 4/30/2015 3:56:01 | 40.35 | 38.65 | 1,053 | 0.37 | 0.38 | 57.6 |
| 4/30/2015 3:56:01 | 40.68 | 38.98 | 1,042 | 0.37 | 0.38 | 57.0 |
| 4/30/2015 3:56:02 | 41.01 | 39.31 | 1,048 | 0.37 | 0.39 | 57.3 |
| 4/30/2015 3:56:02 | 41.34 | 39.64 | 1,048 | 0.37 | 0.39 | 57.3 |
| 4/30/2015 3:56:02 | 41.67 | 39.97 | 1,027 | 0.36 | 0.38 | 56.2 |
| 4/30/2015 3:56:03 | 41.99 | 40.29 | 1,063 | 0.37 | 0.38 | 58.1 |
| 4/30/2015 3:56:03 | 42.32 | 40.62 | 1,063 | 0.37 | 0.38 | 58.1 |
| 4/30/2015 3:56:03 | 42.65 | 40.95 | 1,057 | 0.37 | 0.38 | 57.8 |
| 4/30/2015 3:56:04 | 42.98 | 41.28 | 1,057 | 0.36 | 0.39 | 57.8 |
| 4/30/2015 3:56:04 | 43.31 | 41.61 | 1,057 | 0.36 | 0.39 | 57.8 |
| 4/30/2015 3:56:04 | 43.64 | 41.94 | 1,059 | 0.37 | 0.38 | 57.9 |
| 4/30/2015 3:56:05 | 43.96 | 42.26 | 1,071 | 0.37 | 0.39 | 58.6 |
| 4/30/2015 3:56:05 | 44.29 | 42.59 | 1,071 | 0.37 | 0.39 | 58.6 |
| 4/30/2015 3:56:05 | 44.62 | 42.92 | 1,061 | 0.37 | 0.39 | 58.0 |
| 4/30/2015 3:56:06 | 44.95 | 43.25 | 1,061 | 0.37 | 0.38 | 58.0 |
| 4/30/2015 3:56:06 | 45.28 | 43.58 | 1,061 | 0.37 | 0.38 | 58.0 |
| 4/30/2015 3:56:06 | 45.60 | 43.90 | 1,061 | 0.37 | 0.39 | 58.0 |
| 4/30/2015 3:56:07 | 45.93 | 44.23 | 1,061 | 0.37 | 0.39 | 58.0 |
| 4/30/2015 3:56:07 | 46.26 | 44.56 | 1,054 | 0.37 | 0.38 | 57.7 |
| 4/30/2015 3:56:08 | 46.59 | 44.89 | 1,067 | 0.37 | 0.39 | 58.3 |
| 4/30/2015 3:56:08 | 46.92 | 45.22 | 1,067 | 0.37 | 0.39 | 58.3 |
| 4/30/2015 3:56:08 | 47.24 | 45.54 | 1,067 | 0.37 | 0.38 | 58.3 |
| 4/30/2015 3:56:09 | 47.57 | 45.87 | 1,067 | 0.37 | 0.38 | 58.3 |
| 4/30/2015 3:56:09 | 47.90 | 46.20 | 1,067 | 0.37 | 0.38 | 58.3 |
| 4/30/2015 3:56:09 | 48.23 | 46.53 | 1,061 | 0.34 | 0.42 | 58.0 |
| 4/30/2015 3:56:13 | 48.56 | 46.86 | 54 | 4.58 | 0.44 | 3.0 |
| 4/30/2015 3:56:15 | 48.88 | 47.18 | 169 | 3.94 | 0.44 | 9.3 |
| 4/30/2015 3:56:22 | 49.21 | 47.51 | 101 | 5.13 | 0.42 | 5.5 |
| 4/30/2015 3:56:22 | 49.54 | 47.84 | 190 | 3.37 | 0.45 | 10.4 |
| 4/30/2015 3:56:24 | 49.87 | 48.17 | 310 | 4.23 | 0.45 | 16.9 |
| 4/30/2015 3:56:28 | 50.20 | 48.50 | 29 | 2.92 | 0.41 | 1.6 |
| 4/30/2015 3:56:29 | 50.53 | 48.83 | 171 | 2.86 | 0.42 | 9.4 |
| 4/30/2015 3:56:29 | 50.85 | 49.15 | 316 | 2.98 | 0.42 | 17.3 |
| 4/30/2015 3:56:30 | 51.18 | 49.48 | 447 | 2.71 | 0.42 | 24.4 |
| 4/30/2015 3:56:30 | 51.51 | 49.81 | 581 | 3.20 | 0.42 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:56:31 | 51.84 | 50.14 | 679 | 3.29 | 0.42 | 37.1 |
| 4/30/2015 | 3:56:31 | 52.17 | 50.47 | 648 | 3.92 | 0.43 | 35.4 |
| 4/30/2015 | 3:56:40 | 52.49 | 50.79 | 63 | 4.20 | 0.46 | 3.4 |
| 4/30/2015 | 3:56:42 | 52.82 | 51.12 | 156 | 6.39 | 0.48 | 8.5 |
| 4/30/2015 | 3:57:04 | 53.15 | 51.45 | 74 | 7.02 | 0.45 | 4.1 |
| 4/30/2015 | 3:57:05 | 53.48 | 51.78 | 225 | 4.07 | 0.44 | 12.3 |
| 4/30/2015 | 3:57:05 | 53.81 | 52.11 | 317 | 4.93 | 0.44 | 17.3 |
| 4/30/2015 | 3:57:06 | 54.13 | 52.43 | 408 | 3.43 | 0.43 | 22.3 |
| 4/30/2015 | 3:57:06 | 54.46 | 52.76 | 457 | 3.56 | 0.42 | 25.0 |
| 4/30/2015 | 3:57:07 | 54.79 | 53.09 | 521 | 4.65 | 0.47 | 28.5 |
| 4/30/2015 | 3:57:09 | 55.12 | 53.42 | 329 | 4.80 | 0.44 | 18.0 |
| 4/30/2015 | 3:57:10 | 55.45 | 53.75 | 262 | 5.48 | 0.46 | 14.3 |
| 4/30/2015 | 3:57:11 | 55.77 | 54.07 | 302 | 4.38 | 0.44 | 16.5 |
| 4/30/2015 | 3:57:12 | 56.10 | 54.40 | 330 | 4.59 | 0.45 | 18.0 |
| 4/30/2015 | 3:57:15 | 56.43 | 54.73 | 252 | 5.03 | 0.49 | 13.8 |
| 4/30/2015 | 3:57:16 | 56.76 | 55.06 | 146 | 4.51 | 0.48 | 8.0 |

## K208 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:54:22

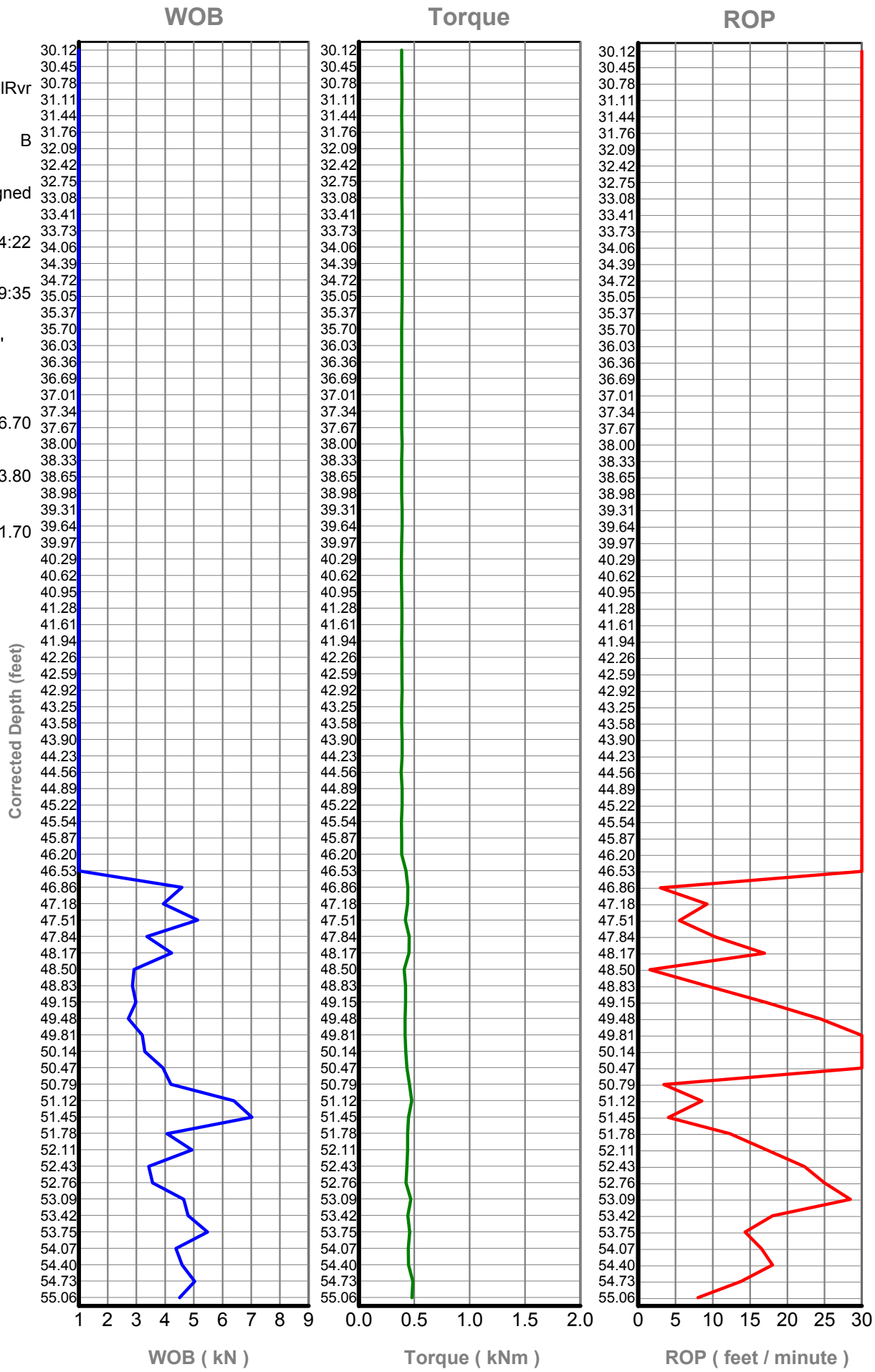
**End Date:**
4/30/2015 3:59:35

**Operator Note:**
'1.7 1.7b Auto Complete'

**Northing:**
361,826.70

**Easting:**
245,383.80

**Tide (feet):**
1.70



## Hole: K209 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 3:54:39 | 31.82 | 30.12 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 3:54:39 | 32.15 | 30.45 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 3:54:40 | 32.48 | 30.78 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 3:54:40 | 32.81 | 31.11 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 3:54:40 | 33.14 | 31.44 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 3:54:41 | 33.46 | 31.76 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 3:54:41 | 33.79 | 32.09 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 3:54:41 | 34.12 | 32.42 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 3:54:42 | 34.45 | 32.75 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 3:54:42 | 34.78 | 33.08 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 3:54:42 | 35.11 | 33.41 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 3:54:43 | 35.43 | 33.73 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 3:54:43 | 35.76 | 34.06 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 3:54:44 | 36.09 | 34.39 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 3:54:44 | 36.42 | 34.72 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 3:54:45 | 36.75 | 35.05 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 3:54:45 | 37.07 | 35.37 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:45 | 37.40 | 35.70 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:46 | 37.73 | 36.03 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:46 | 38.06 | 36.36 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:46 | 38.39 | 36.69 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:47 | 38.71 | 37.01 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 3:54:47 | 39.04 | 37.34 | 1,031 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 3:54:47 | 39.37 | 37.67 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 3:54:48 | 39.70 | 38.00 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 3:54:48 | 40.03 | 38.33 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 3:54:48 | 40.35 | 38.65 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 3:54:49 | 40.68 | 38.98 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 3:54:49 | 41.01 | 39.31 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 3:54:49 | 41.34 | 39.64 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 3:54:50 | 41.67 | 39.97 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 3:54:50 | 41.99 | 40.29 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 3:54:50 | 42.32 | 40.62 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 3:54:51 | 42.65 | 40.95 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 3:54:51 | 42.98 | 41.28 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 3:54:51 | 43.31 | 41.61 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 3:54:52 | 43.64 | 41.94 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 3:54:52 | 43.96 | 42.26 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 3:54:52 | 44.29 | 42.59 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 3:54:53 | 44.62 | 42.92 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 3:54:53 | 44.95 | 43.25 | 1,025 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 3:54:53 | 45.28 | 43.58 | 1,005 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 3:54:54 | 45.60 | 43.90 | 1,005 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 3:54:54 | 45.93 | 44.23 | 1,005 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 3:54:54 | 46.26 | 44.56 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 3:54:55 | 46.59 | 44.89 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 3:54:55 | 46.92 | 45.22 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 3:54:56 | 47.24 | 45.54 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 3:54:56 | 47.57 | 45.87 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 3:54:56 | 47.90 | 46.20 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 3:54:57 | 48.23 | 46.53 | 1,011 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 3:55:07 | 48.56 | 46.86 | 56 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 3:55:08 | 48.88 | 47.18 | 132 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 3:55:09 | 49.21 | 47.51 | 267 | 1.14 | 0.29 | 14.6 |
| 4/30/2015 3:55:14 | 49.54 | 47.84 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 3:55:16 | 49.87 | 48.17 | 131 | 1.14 | 0.29 | 7.1 |
| 4/30/2015 3:55:16 | 50.20 | 48.50 | 228 | 1.14 | 0.29 | 12.5 |
| 4/30/2015 3:55:17 | 50.53 | 48.83 | 322 | 1.14 | 0.29 | 17.6 |
| 4/30/2015 3:55:18 | 50.85 | 49.15 | 341 | 1.14 | 0.29 | 18.6 |
| 4/30/2015 3:55:18 | 51.18 | 49.48 | 426 | 1.14 | 0.29 | 23.3 |
| 4/30/2015 3:55:19 | 51.51 | 49.81 | 519 | 1.14 | 0.29 | 28.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 3:55:33 | 51.84 | 50.14 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 3:55:33 | 52.17 | 50.47 | 57 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 | 3:55:34 | 52.49 | 50.79 | 249 | 1.14 | 0.29 | 13.6 |
| 4/30/2015 | 3:55:36 | 52.82 | 51.12 | 363 | 1.14 | 0.29 | 19.8 |
| 4/30/2015 | 3:55:36 | 53.15 | 51.45 | 397 | 1.14 | 0.29 | 21.7 |
| 4/30/2015 | 3:55:38 | 53.48 | 51.78 | 351 | 1.14 | 0.29 | 19.2 |
| 4/30/2015 | 3:55:39 | 53.81 | 52.11 | 269 | 1.14 | 0.29 | 14.7 |
| 4/30/2015 | 3:55:41 | 54.13 | 52.43 | 218 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 | 3:55:42 | 54.46 | 52.76 | 218 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 | 3:55:44 | 54.79 | 53.09 | 283 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 | 3:55:45 | 55.12 | 53.42 | 288 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 | 3:56:27 | 55.45 | 53.75 | 9 | 1.14 | 0.29 | 0.5 |
| 4/30/2015 | 3:56:29 | 55.77 | 54.07 | 98 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 | 3:56:29 | 56.10 | 54.40 | 165 | 1.14 | 0.29 | 9.0 |
| 4/30/2015 | 3:56:30 | 56.43 | 54.73 | 309 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 | 3:56:32 | 56.76 | 55.06 | 359 | 1.14 | 0.29 | 19.6 |
| 4/30/2015 | 3:56:32 | 56.94 | 55.24 | 358 | 1.14 | 0.29 | 19.6 |

## K209 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 3:53:22

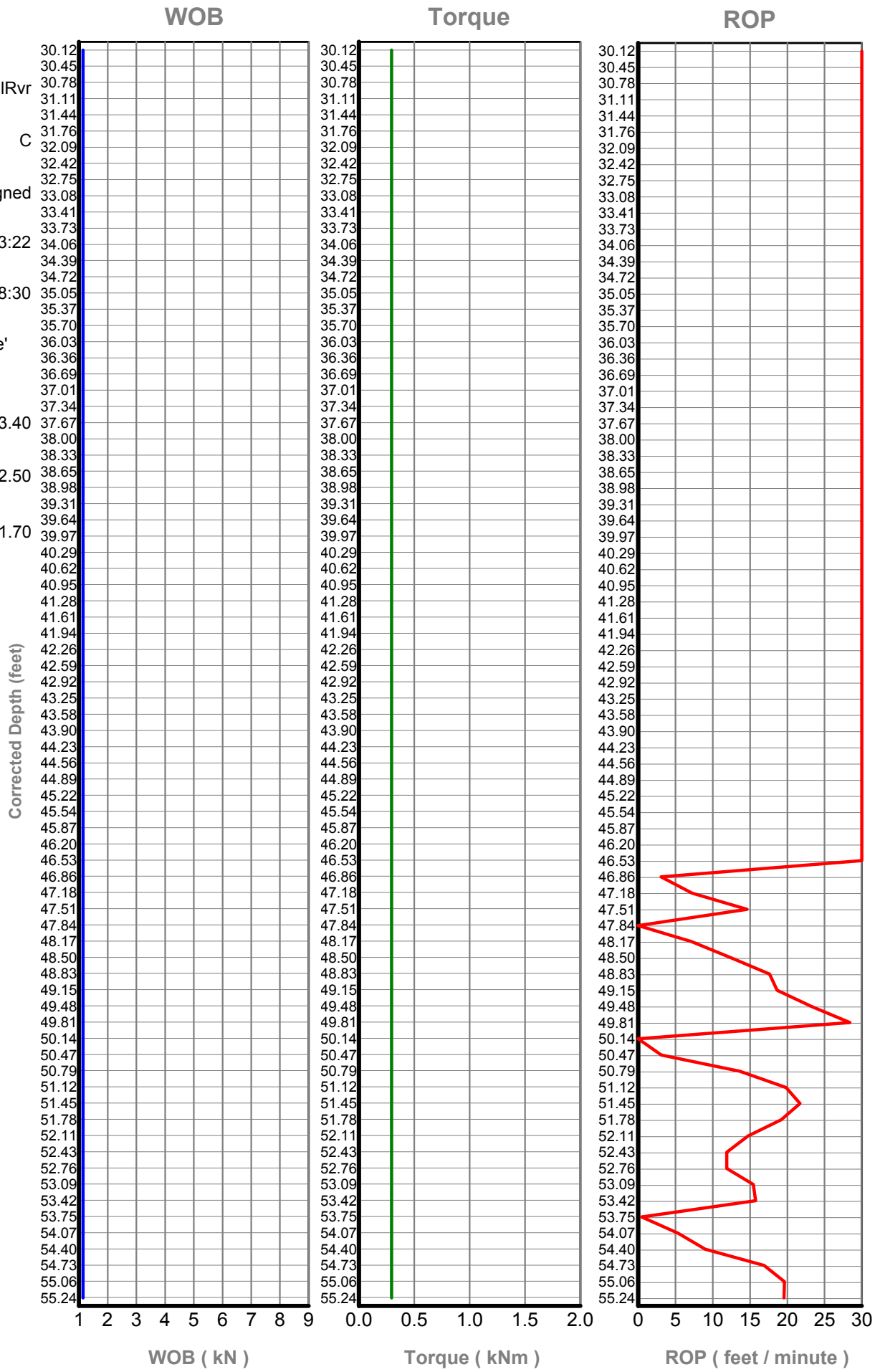
**End Date:**
4/30/2015 3:58:30

**Operator Note:**
'1.7 1.7 c Auto Complete'

**Northing:**
361,873.40

**Easting:**
245,442.50

**Tide (feet):**
1.70



## Hole: K21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:37:26 | 34.45 | 30.05 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 13:37:27 | 34.78 | 30.38 | 1,185 | 0.29 | 0.36 | 64.8 |
| 4/30/2015 13:37:27 | 35.11 | 30.71 | 1,185 | 0.29 | 0.36 | 64.8 |
| 4/30/2015 13:37:27 | 35.43 | 31.03 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 13:37:28 | 35.76 | 31.36 | 1,188 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 13:37:28 | 36.09 | 31.69 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 13:37:28 | 36.42 | 32.02 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 13:37:28 | 36.75 | 32.35 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 13:37:29 | 37.07 | 32.67 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 13:37:29 | 37.40 | 33.00 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 13:37:29 | 37.73 | 33.33 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 13:37:30 | 38.06 | 33.66 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 13:37:30 | 38.39 | 33.99 | 1,185 | 0.30 | 0.37 | 64.8 |
| 4/30/2015 13:37:30 | 38.71 | 34.31 | 1,179 | 0.29 | 0.39 | 64.5 |
| 4/30/2015 13:37:31 | 39.04 | 34.64 | 1,179 | 0.29 | 0.39 | 64.5 |
| 4/30/2015 13:37:31 | 39.37 | 34.97 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 13:37:31 | 39.70 | 35.30 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 13:37:31 | 40.03 | 35.63 | 1,175 | 0.32 | 0.37 | 64.3 |
| 4/30/2015 13:37:32 | 40.35 | 35.95 | 1,175 | 0.32 | 0.37 | 64.3 |
| 4/30/2015 13:37:32 | 40.68 | 36.28 | 1,182 | 0.31 | 0.36 | 64.6 |
| 4/30/2015 13:37:33 | 41.01 | 36.61 | 1,177 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 13:37:33 | 41.34 | 36.94 | 1,177 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 13:37:33 | 41.67 | 37.27 | 1,177 | 0.31 | 0.35 | 64.3 |
| 4/30/2015 13:37:34 | 41.99 | 37.59 | 1,177 | 0.31 | 0.35 | 64.3 |
| 4/30/2015 13:37:34 | 42.32 | 37.92 | 1,171 | 0.31 | 0.36 | 64.0 |
| 4/30/2015 13:37:34 | 42.65 | 38.25 | 1,164 | 0.28 | 0.36 | 63.7 |
| 4/30/2015 13:37:35 | 42.98 | 38.58 | 1,164 | 0.28 | 0.36 | 63.7 |
| 4/30/2015 13:37:35 | 43.31 | 38.91 | 1,172 | 0.36 | 0.39 | 64.1 |
| 4/30/2015 13:37:35 | 43.64 | 39.24 | 1,172 | 0.36 | 0.39 | 64.1 |
| 4/30/2015 13:37:35 | 43.96 | 39.56 | 1,172 | 0.39 | 0.39 | 64.1 |
| 4/30/2015 13:37:36 | 44.29 | 39.89 | 1,172 | 0.39 | 0.39 | 64.1 |
| 4/30/2015 13:37:36 | 44.62 | 40.22 | 1,168 | 0.25 | 0.38 | 63.9 |
| 4/30/2015 13:37:36 | 44.95 | 40.55 | 1,178 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 13:37:37 | 45.28 | 40.88 | 1,178 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 13:37:37 | 45.60 | 41.20 | 1,187 | 0.35 | 0.37 | 64.9 |
| 4/30/2015 13:37:37 | 45.93 | 41.53 | 1,187 | 0.35 | 0.37 | 64.9 |
| 4/30/2015 13:37:37 | 46.26 | 41.86 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 13:37:38 | 46.59 | 42.19 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 13:37:38 | 46.92 | 42.52 | 1,185 | 0.29 | 0.36 | 64.8 |
| 4/30/2015 13:37:38 | 47.24 | 42.84 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:39 | 47.57 | 43.17 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:39 | 47.90 | 43.50 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:39 | 48.23 | 43.83 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:39 | 48.56 | 44.16 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:40 | 48.88 | 44.48 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 13:37:40 | 49.21 | 44.81 | 1,186 | 0.29 | 0.36 | 64.9 |
| 4/30/2015 13:37:40 | 49.54 | 45.14 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 13:37:41 | 49.87 | 45.47 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 13:37:41 | 50.20 | 45.80 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 13:37:41 | 50.53 | 46.13 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 13:37:41 | 50.85 | 46.45 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 13:37:42 | 51.18 | 46.78 | 1,194 | 0.24 | 0.46 | 65.3 |
| 4/30/2015 13:37:46 | 51.51 | 47.11 | 0 | 3.22 | 0.42 | 0.0 |
| 4/30/2015 13:37:46 | 51.84 | 47.44 | 82 | 2.00 | 0.35 | 4.5 |
| 4/30/2015 13:37:54 | 52.17 | 47.77 | 0 | 1.93 | 0.37 | 0.0 |
| 4/30/2015 13:37:54 | 52.49 | 48.09 | 134 | 2.33 | 0.44 | 7.3 |
| 4/30/2015 13:37:56 | 52.82 | 48.42 | 306 | 2.42 | 0.40 | 16.7 |
| 4/30/2015 13:37:57 | 53.15 | 48.75 | 277 | 2.63 | 0.41 | 15.1 |
| 4/30/2015 13:38:05 | 53.48 | 49.08 | 21 | 3.86 | 0.46 | 1.1 |
| 4/30/2015 13:38:08 | 53.81 | 49.41 | 121 | 3.42 | 0.46 | 6.6 |
| 4/30/2015 13:38:12 | 54.13 | 49.73 | 90 | 3.22 | 0.47 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:38:18 | 54.46 | 50.06 | 58 | 3.23 | 0.46 | 3.2 |
| 4/30/2015 | 13:38:24 | 54.79 | 50.39 | 61 | 3.74 | 0.46 | 3.3 |
| 4/30/2015 | 13:38:31 | 55.12 | 50.72 | 49 | 3.54 | 0.46 | 2.7 |
| 4/30/2015 | 13:38:36 | 55.39 | 50.99 | 55 | 3.22 | 0.47 | 3.0 |

## K21 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:34:06

**End Date:**
4/30/2015 13:39:45

**Operator Note:**
'4.4 4.8 b Rock'

**Northing:**
361,728.09

**Easting:**
244,305.28

**Tide (feet):**
4.40



## Hole: K211 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:11:21 | 36.42 | 30.02 | 1,171 | 0.38 | 0.38 | 64.0 |
| 4/30/2015 10:11:22 | 36.75 | 30.35 | 1,171 | 0.38 | 0.38 | 64.0 |
| 4/30/2015 10:11:22 | 37.07 | 30.67 | 1,159 | 0.39 | 0.39 | 63.4 |
| 4/30/2015 10:11:22 | 37.40 | 31.00 | 1,153 | 0.41 | 0.39 | 63.1 |
| 4/30/2015 10:11:23 | 37.73 | 31.33 | 1,153 | 0.41 | 0.39 | 63.1 |
| 4/30/2015 10:11:23 | 38.06 | 31.66 | 1,146 | 0.39 | 0.41 | 62.7 |
| 4/30/2015 10:11:23 | 38.39 | 31.99 | 1,146 | 0.39 | 0.41 | 62.7 |
| 4/30/2015 10:11:23 | 38.71 | 32.31 | 1,155 | 0.39 | 0.40 | 63.2 |
| 4/30/2015 10:11:24 | 39.04 | 32.64 | 1,165 | 0.38 | 0.40 | 63.7 |
| 4/30/2015 10:11:24 | 39.37 | 32.97 | 1,165 | 0.38 | 0.40 | 63.7 |
| 4/30/2015 10:11:24 | 39.70 | 33.30 | 1,168 | 0.38 | 0.40 | 63.9 |
| 4/30/2015 10:11:25 | 40.03 | 33.63 | 1,168 | 0.38 | 0.40 | 63.9 |
| 4/30/2015 10:11:25 | 40.35 | 33.95 | 1,177 | 0.39 | 0.41 | 64.3 |
| 4/30/2015 10:11:25 | 40.68 | 34.28 | 1,182 | 0.39 | 0.40 | 64.6 |
| 4/30/2015 10:11:26 | 41.01 | 34.61 | 1,182 | 0.39 | 0.40 | 64.6 |
| 4/30/2015 10:11:26 | 41.34 | 34.94 | 1,183 | 0.39 | 0.40 | 64.7 |
| 4/30/2015 10:11:26 | 41.67 | 35.27 | 1,183 | 0.39 | 0.40 | 64.7 |
| 4/30/2015 10:11:26 | 41.99 | 35.59 | 1,176 | 0.39 | 0.40 | 64.3 |
| 4/30/2015 10:11:27 | 42.32 | 35.92 | 1,176 | 0.39 | 0.40 | 64.3 |
| 4/30/2015 10:11:27 | 42.65 | 36.25 | 1,172 | 0.39 | 0.41 | 64.1 |
| 4/30/2015 10:11:27 | 42.98 | 36.58 | 1,172 | 0.38 | 0.41 | 64.1 |
| 4/30/2015 10:11:28 | 43.31 | 36.91 | 1,172 | 0.38 | 0.41 | 64.1 |
| 4/30/2015 10:11:28 | 43.64 | 37.24 | 1,173 | 0.38 | 0.40 | 64.2 |
| 4/30/2015 10:11:28 | 43.96 | 37.56 | 1,173 | 0.38 | 0.40 | 64.2 |
| 4/30/2015 10:11:28 | 44.29 | 37.89 | 1,179 | 0.37 | 0.41 | 64.5 |
| 4/30/2015 10:11:29 | 44.62 | 38.22 | 1,179 | 0.37 | 0.41 | 64.5 |
| 4/30/2015 10:11:29 | 44.95 | 38.55 | 1,172 | 0.38 | 0.38 | 64.1 |
| 4/30/2015 10:11:29 | 45.28 | 38.88 | 1,183 | 0.37 | 0.39 | 64.7 |
| 4/30/2015 10:11:30 | 45.60 | 39.20 | 1,183 | 0.37 | 0.39 | 64.7 |
| 4/30/2015 10:11:30 | 45.93 | 39.53 | 1,189 | 0.38 | 0.41 | 65.0 |
| 4/30/2015 10:11:30 | 46.26 | 39.86 | 1,189 | 0.38 | 0.41 | 65.0 |
| 4/30/2015 10:11:30 | 46.59 | 40.19 | 1,193 | 0.38 | 0.39 | 65.2 |
| 4/30/2015 10:11:31 | 46.92 | 40.52 | 1,173 | 0.38 | 0.40 | 64.1 |
| 4/30/2015 10:11:31 | 47.24 | 40.84 | 1,173 | 0.38 | 0.40 | 64.1 |
| 4/30/2015 10:11:31 | 47.57 | 41.17 | 1,197 | 0.38 | 0.40 | 65.5 |
| 4/30/2015 10:11:32 | 47.90 | 41.50 | 1,197 | 0.38 | 0.40 | 65.5 |
| 4/30/2015 10:11:32 | 48.23 | 41.83 | 1,194 | 0.39 | 0.40 | 65.3 |
| 4/30/2015 10:11:33 | 48.56 | 42.16 | 1,194 | 0.39 | 0.40 | 65.3 |
| 4/30/2015 10:11:33 | 48.88 | 42.48 | 1,190 | 0.38 | 0.40 | 65.1 |
| 4/30/2015 10:11:33 | 49.21 | 42.81 | 1,183 | 0.39 | 0.39 | 64.7 |
| 4/30/2015 10:11:34 | 49.54 | 43.14 | 1,183 | 0.39 | 0.39 | 64.7 |
| 4/30/2015 10:11:34 | 49.87 | 43.47 | 1,176 | 0.38 | 0.41 | 64.3 |
| 4/30/2015 10:11:34 | 50.20 | 43.80 | 1,176 | 0.38 | 0.41 | 64.3 |
| 4/30/2015 10:11:34 | 50.53 | 44.13 | 1,176 | 0.38 | 0.39 | 64.3 |
| 4/30/2015 10:11:35 | 50.85 | 44.45 | 1,176 | 0.38 | 0.39 | 64.3 |
| 4/30/2015 10:11:35 | 51.18 | 44.78 | 1,177 | 0.38 | 0.40 | 64.4 |
| 4/30/2015 10:11:35 | 51.51 | 45.11 | 1,174 | 0.37 | 0.40 | 64.2 |
| 4/30/2015 10:11:36 | 51.84 | 45.44 | 1,174 | 0.37 | 0.40 | 64.2 |
| 4/30/2015 10:11:36 | 52.17 | 45.77 | 1,174 | 0.38 | 0.40 | 64.2 |
| 4/30/2015 10:11:36 | 52.49 | 46.09 | 1,174 | 0.38 | 0.40 | 64.2 |
| 4/30/2015 10:11:36 | 52.82 | 46.42 | 1,184 | 0.37 | 0.41 | 64.7 |
| 4/30/2015 10:11:37 | 53.15 | 46.75 | 1,201 | 0.37 | 0.39 | 65.7 |
| 4/30/2015 10:11:37 | 53.48 | 47.08 | 1,201 | 0.37 | 0.39 | 65.7 |
| 4/30/2015 10:11:37 | 53.81 | 47.41 | 1,179 | 0.32 | 0.33 | 64.5 |
| 4/30/2015 10:11:38 | 54.13 | 47.73 | 1,179 | 0.32 | 0.33 | 64.5 |
| 4/30/2015 10:11:38 | 54.46 | 48.06 | 1,185 | 0.29 | 0.39 | 64.8 |
| 4/30/2015 10:11:38 | 54.79 | 48.39 | 1,185 | 0.29 | 0.39 | 64.8 |
| 4/30/2015 10:11:38 | 55.12 | 48.72 | 1,182 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 10:11:39 | 55.45 | 49.05 | 1,179 | 0.29 | 0.38 | 64.5 |
| 4/30/2015 10:11:39 | 55.77 | 49.37 | 1,179 | 0.29 | 0.38 | 64.5 |
| 4/30/2015 10:11:39 | 56.10 | 49.70 | 1,182 | 0.28 | 0.41 | 64.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:11:48 | 56.43 | 50.03 | 0 | 1.95 | 0.38 | 0.0 |
| 4/30/2015 | 10:11:49 | 56.76 | 50.36 | 57 | 2.16 | 0.39 | 3.1 |
| 4/30/2015 | 10:11:49 | 57.09 | 50.69 | 243 | 2.84 | 0.43 | 13.3 |
| 4/30/2015 | 10:11:50 | 57.41 | 51.01 | 379 | 3.55 | 0.46 | 20.7 |
| 4/30/2015 | 10:11:56 | 57.74 | 51.34 | 68 | 3.48 | 0.46 | 3.7 |
| 4/30/2015 | 10:11:59 | 58.07 | 51.67 | 101 | 3.90 | 0.55 | 5.5 |
| 4/30/2015 | 10:12:07 | 58.40 | 52.00 | 29 | 2.77 | 0.47 | 1.6 |
| 4/30/2015 | 10:12:19 | 58.73 | 52.33 | 38 | 2.86 | 0.47 | 2.1 |
| 4/30/2015 | 10:12:31 | 59.06 | 52.66 | 27 | 2.75 | 0.48 | 1.5 |
| 4/30/2015 | 10:12:37 | 59.20 | 52.80 | 29 | 2.68 | 0.46 | 1.6 |

## K211 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:09:42

**End Date:**
4/30/2015 10:13:43

**Operator Note:**
'6.4 6.3 b Rock'

**Northing:**
361,035.47

**Easting:**
244,520.58

**Tide (feet):**
6.40



## Hole: K212 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:24:41 | 36.75 | 30.25 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 10:24:41 | 37.07 | 30.57 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 10:24:41 | 37.40 | 30.90 | 1,197 | 0.32 | 0.37 | 65.5 |
| 4/30/2015 10:24:42 | 37.73 | 31.23 | 1,197 | 0.32 | 0.37 | 65.5 |
| 4/30/2015 10:24:42 | 38.06 | 31.56 | 1,189 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 10:24:42 | 38.39 | 31.89 | 1,189 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 10:24:43 | 38.71 | 32.21 | 1,204 | 0.31 | 0.37 | 65.9 |
| 4/30/2015 10:24:43 | 39.04 | 32.54 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 10:24:43 | 39.37 | 32.87 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 10:24:44 | 39.70 | 33.20 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 10:24:44 | 40.03 | 33.53 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 10:24:44 | 40.35 | 33.85 | 1,211 | 0.31 | 0.37 | 66.2 |
| 4/30/2015 10:24:45 | 40.68 | 34.18 | 1,211 | 0.31 | 0.37 | 66.2 |
| 4/30/2015 10:24:45 | 41.01 | 34.51 | 1,205 | 0.32 | 0.38 | 65.9 |
| 4/30/2015 10:24:45 | 41.34 | 34.84 | 1,205 | 0.31 | 0.37 | 65.9 |
| 4/30/2015 10:24:46 | 41.67 | 35.17 | 1,205 | 0.31 | 0.37 | 65.9 |
| 4/30/2015 10:24:46 | 41.99 | 35.49 | 1,211 | 0.28 | 0.37 | 66.2 |
| 4/30/2015 10:24:46 | 42.32 | 35.82 | 1,211 | 0.28 | 0.37 | 66.2 |
| 4/30/2015 10:24:46 | 42.65 | 36.15 | 1,206 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 10:24:47 | 42.98 | 36.48 | 1,206 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 10:24:47 | 43.31 | 36.81 | 1,225 | 0.28 | 0.38 | 67.0 |
| 4/30/2015 10:24:47 | 43.64 | 37.14 | 1,225 | 0.28 | 0.38 | 67.0 |
| 4/30/2015 10:24:47 | 43.96 | 37.46 | 1,222 | 0.29 | 0.36 | 66.8 |
| 4/30/2015 10:24:48 | 44.29 | 37.79 | 1,235 | 0.28 | 0.37 | 67.5 |
| 4/30/2015 10:24:48 | 44.62 | 38.12 | 1,235 | 0.28 | 0.37 | 67.5 |
| 4/30/2015 10:24:48 | 44.95 | 38.45 | 1,226 | 0.27 | 0.37 | 67.0 |
| 4/30/2015 10:24:49 | 45.28 | 38.78 | 1,226 | 0.27 | 0.37 | 67.0 |
| 4/30/2015 10:24:49 | 45.60 | 39.10 | 1,229 | 0.27 | 0.36 | 67.2 |
| 4/30/2015 10:24:49 | 45.93 | 39.43 | 1,229 | 0.27 | 0.36 | 67.2 |
| 4/30/2015 10:24:49 | 46.26 | 39.76 | 1,231 | 0.28 | 0.37 | 67.3 |
| 4/30/2015 10:24:50 | 46.59 | 40.09 | 1,231 | 0.28 | 0.37 | 67.3 |
| 4/30/2015 10:24:50 | 46.92 | 40.42 | 1,234 | 0.29 | 0.38 | 67.5 |
| 4/30/2015 10:24:50 | 47.24 | 40.74 | 1,231 | 0.27 | 0.36 | 67.3 |
| 4/30/2015 10:24:51 | 47.57 | 41.07 | 1,231 | 0.27 | 0.36 | 67.3 |
| 4/30/2015 10:24:51 | 47.90 | 41.40 | 1,228 | 0.29 | 0.37 | 67.2 |
| 4/30/2015 10:24:51 | 48.23 | 41.73 | 1,228 | 0.29 | 0.37 | 67.2 |
| 4/30/2015 10:24:51 | 48.56 | 42.06 | 1,216 | 0.33 | 0.37 | 66.5 |
| 4/30/2015 10:24:52 | 48.88 | 42.38 | 1,216 | 0.33 | 0.37 | 66.5 |
| 4/30/2015 10:24:52 | 49.21 | 42.71 | 1,223 | 0.24 | 0.39 | 66.9 |
| 4/30/2015 10:24:52 | 49.54 | 43.04 | 1,214 | 0.28 | 0.36 | 66.4 |
| 4/30/2015 10:24:53 | 49.87 | 43.37 | 1,214 | 0.28 | 0.36 | 66.4 |
| 4/30/2015 10:24:53 | 50.20 | 43.70 | 1,211 | 0.30 | 0.37 | 66.2 |
| 4/30/2015 10:24:54 | 50.53 | 44.03 | 1,211 | 0.30 | 0.37 | 66.2 |
| 4/30/2015 10:24:54 | 50.85 | 44.35 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 10:24:54 | 51.18 | 44.68 | 1,198 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 10:24:54 | 51.51 | 45.01 | 1,222 | 0.26 | 0.38 | 66.8 |
| 4/30/2015 10:24:55 | 51.84 | 45.34 | 1,222 | 0.26 | 0.38 | 66.8 |
| 4/30/2015 10:24:55 | 52.17 | 45.67 | 1,219 | 0.28 | 0.38 | 66.7 |
| 4/30/2015 10:24:55 | 52.49 | 45.99 | 1,199 | 0.28 | 0.37 | 65.6 |
| 4/30/2015 10:24:56 | 52.82 | 46.32 | 1,199 | 0.28 | 0.37 | 65.6 |
| 4/30/2015 10:24:56 | 53.15 | 46.65 | 1,199 | 0.28 | 0.38 | 65.6 |
| 4/30/2015 10:24:56 | 53.48 | 46.98 | 1,199 | 0.28 | 0.38 | 65.6 |
| 4/30/2015 10:24:56 | 53.81 | 47.31 | 1,212 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 10:24:57 | 54.13 | 47.63 | 1,212 | 0.29 | 0.37 | 66.3 |
| 4/30/2015 10:24:57 | 54.46 | 47.96 | 1,225 | 0.28 | 0.37 | 67.0 |
| 4/30/2015 10:24:57 | 54.79 | 48.29 | 1,208 | 0.28 | 0.37 | 66.1 |
| 4/30/2015 10:24:58 | 55.12 | 48.62 | 1,208 | 0.28 | 0.37 | 66.1 |
| 4/30/2015 10:24:58 | 55.45 | 48.95 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 10:24:58 | 55.77 | 49.27 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 10:24:58 | 56.10 | 49.60 | 1,222 | 0.28 | 0.40 | 66.8 |
| 4/30/2015 10:25:07 | 56.43 | 49.93 | 0 | 2.84 | 0.40 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:25:08 | 56.76 | 50.26 | 147 | 7.02 | 0.47 | 8.0 |
| 4/30/2015 | 10:25:08 | 57.09 | 50.59 | 190 | 3.07 | 0.48 | 10.4 |
| 4/30/2015 | 10:25:09 | 57.41 | 50.91 | 327 | 2.44 | 0.41 | 17.9 |
| 4/30/2015 | 10:25:09 | 57.74 | 51.24 | 489 | 2.37 | 0.42 | 26.7 |
| 4/30/2015 | 10:25:10 | 58.07 | 51.57 | 553 | 3.44 | 0.46 | 30.3 |
| 4/30/2015 | 10:25:11 | 58.40 | 51.90 | 489 | 3.01 | 0.44 | 26.7 |
| 4/30/2015 | 10:25:12 | 58.73 | 52.23 | 387 | 2.35 | 0.44 | 21.1 |
| 4/30/2015 | 10:25:13 | 59.06 | 52.56 | 381 | 2.54 | 0.44 | 20.8 |
| 4/30/2015 | 10:25:14 | 59.38 | 52.88 | 441 | 2.33 | 0.43 | 24.1 |
| 4/30/2015 | 10:25:15 | 59.71 | 53.21 | 465 | 2.22 | 0.43 | 25.4 |
| 4/30/2015 | 10:25:15 | 60.04 | 53.54 | 465 | 2.08 | 0.41 | 25.4 |
| 4/30/2015 | 10:25:17 | 60.37 | 53.87 | 346 | 2.25 | 0.44 | 18.9 |
| 4/30/2015 | 10:25:24 | 60.70 | 54.20 | 51 | 3.24 | 0.47 | 2.8 |
| 4/30/2015 | 10:25:31 | 61.02 | 54.52 | 52 | 2.88 | 0.46 | 2.8 |
| 4/30/2015 | 10:25:38 | 61.35 | 54.85 | 52 | 3.33 | 0.46 | 2.8 |

## K212 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:23:06

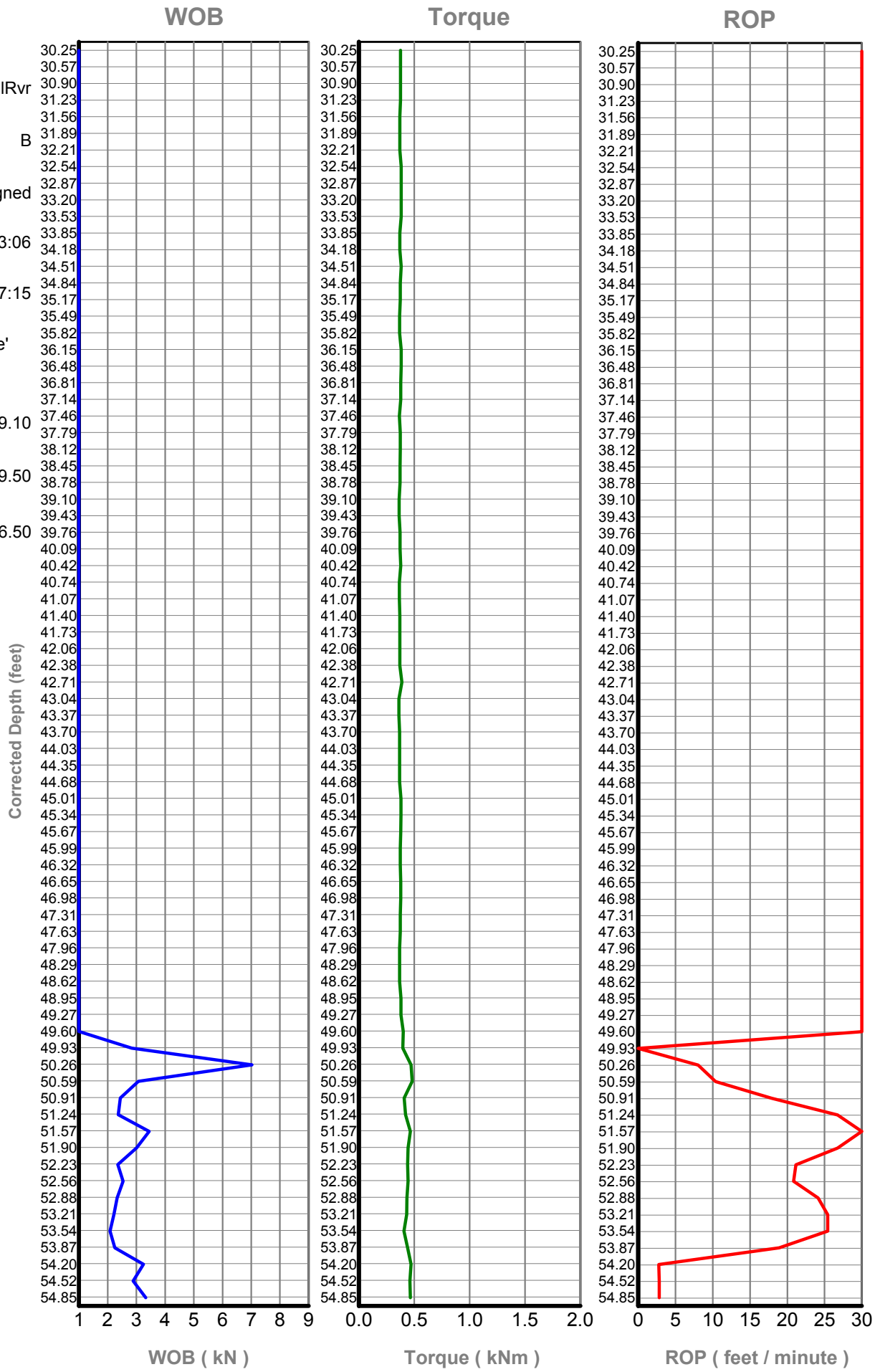
**End Date:**
4/30/2015 10:27:15

**Operator Note:**
'6.5 6.4 b Auto Complete'

**Northing:**
361,079.10

**Easting:**
244,579.50

**Tide (feet):**
6.50



## Hole: K213 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:37:24 | 36.75 | 30.25 | 1,153 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 10:37:24 | 37.07 | 30.57 | 1,153 | 0.28 | 0.37 | 63.0 |
| 4/30/2015 10:37:24 | 37.40 | 30.90 | 1,153 | 0.30 | 0.37 | 63.0 |
| 4/30/2015 10:37:25 | 37.73 | 31.23 | 1,153 | 0.30 | 0.37 | 63.0 |
| 4/30/2015 10:37:25 | 38.06 | 31.56 | 1,165 | 0.34 | 0.37 | 63.7 |
| 4/30/2015 10:37:25 | 38.39 | 31.89 | 1,175 | 0.36 | 0.38 | 64.2 |
| 4/30/2015 10:37:26 | 38.71 | 32.21 | 1,175 | 0.36 | 0.38 | 64.2 |
| 4/30/2015 10:37:26 | 39.04 | 32.54 | 1,194 | 0.38 | 0.39 | 65.3 |
| 4/30/2015 10:37:26 | 39.37 | 32.87 | 1,194 | 0.38 | 0.39 | 65.3 |
| 4/30/2015 10:37:26 | 39.70 | 33.20 | 1,183 | 0.39 | 0.40 | 64.7 |
| 4/30/2015 10:37:27 | 40.03 | 33.53 | 1,183 | 0.39 | 0.40 | 64.7 |
| 4/30/2015 10:37:27 | 40.35 | 33.85 | 1,207 | 0.38 | 0.38 | 66.0 |
| 4/30/2015 10:37:27 | 40.68 | 34.18 | 1,192 | 0.38 | 0.39 | 65.2 |
| 4/30/2015 10:37:28 | 41.01 | 34.51 | 1,192 | 0.38 | 0.39 | 65.2 |
| 4/30/2015 10:37:28 | 41.34 | 34.84 | 1,185 | 0.43 | 0.40 | 64.8 |
| 4/30/2015 10:37:28 | 41.67 | 35.17 | 1,185 | 0.43 | 0.40 | 64.8 |
| 4/30/2015 10:37:28 | 41.99 | 35.49 | 1,194 | 0.37 | 0.39 | 65.3 |
| 4/30/2015 10:37:29 | 42.32 | 35.82 | 1,185 | 0.37 | 0.40 | 64.8 |
| 4/30/2015 10:37:29 | 42.65 | 36.15 | 1,185 | 0.37 | 0.40 | 64.8 |
| 4/30/2015 10:37:29 | 42.98 | 36.48 | 1,185 | 0.37 | 0.40 | 64.8 |
| 4/30/2015 10:37:30 | 43.31 | 36.81 | 1,185 | 0.37 | 0.40 | 64.8 |
| 4/30/2015 10:37:30 | 43.64 | 37.14 | 1,181 | 0.37 | 0.39 | 64.6 |
| 4/30/2015 10:37:30 | 43.96 | 37.46 | 1,181 | 0.37 | 0.39 | 64.6 |
| 4/30/2015 10:37:30 | 44.29 | 37.79 | 1,194 | 0.37 | 0.40 | 65.3 |
| 4/30/2015 10:37:31 | 44.62 | 38.12 | 1,188 | 0.37 | 0.38 | 65.0 |
| 4/30/2015 10:37:31 | 44.95 | 38.45 | 1,188 | 0.37 | 0.38 | 65.0 |
| 4/30/2015 10:37:31 | 45.28 | 38.78 | 1,188 | 0.35 | 0.37 | 65.0 |
| 4/30/2015 10:37:32 | 45.60 | 39.10 | 1,188 | 0.35 | 0.37 | 65.0 |
| 4/30/2015 10:37:32 | 45.93 | 39.43 | 1,191 | 0.35 | 0.38 | 65.1 |
| 4/30/2015 10:37:32 | 46.26 | 39.76 | 1,191 | 0.35 | 0.38 | 65.1 |
| 4/30/2015 10:37:32 | 46.59 | 40.09 | 1,194 | 0.36 | 0.38 | 65.3 |
| 4/30/2015 10:37:33 | 46.92 | 40.42 | 1,185 | 0.36 | 0.37 | 64.8 |
| 4/30/2015 10:37:33 | 47.24 | 40.74 | 1,185 | 0.36 | 0.37 | 64.8 |
| 4/30/2015 10:37:33 | 47.57 | 41.07 | 1,185 | 0.29 | 0.35 | 64.8 |
| 4/30/2015 10:37:34 | 47.90 | 41.40 | 1,185 | 0.29 | 0.35 | 64.8 |
| 4/30/2015 10:37:34 | 48.23 | 41.73 | 1,186 | 0.28 | 0.37 | 64.9 |
| 4/30/2015 10:37:35 | 48.56 | 42.06 | 1,186 | 0.28 | 0.37 | 64.9 |
| 4/30/2015 10:37:35 | 48.88 | 42.38 | 1,197 | 0.26 | 0.37 | 65.4 |
| 4/30/2015 10:37:35 | 49.21 | 42.71 | 1,200 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 10:37:36 | 49.54 | 43.04 | 1,200 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 10:37:36 | 49.87 | 43.37 | 1,208 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 10:37:36 | 50.20 | 43.70 | 1,208 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 10:37:36 | 50.53 | 44.03 | 1,214 | 0.28 | 0.37 | 66.4 |
| 4/30/2015 10:37:37 | 50.85 | 44.35 | 1,214 | 0.28 | 0.37 | 66.4 |
| 4/30/2015 10:37:37 | 51.18 | 44.68 | 1,217 | 0.28 | 0.37 | 66.5 |
| 4/30/2015 10:37:37 | 51.51 | 45.01 | 1,217 | 0.28 | 0.38 | 66.5 |
| 4/30/2015 10:37:38 | 51.84 | 45.34 | 1,217 | 0.28 | 0.38 | 66.5 |
| 4/30/2015 10:37:38 | 52.17 | 45.67 | 1,214 | 0.28 | 0.38 | 66.4 |
| 4/30/2015 10:37:38 | 52.49 | 45.99 | 1,214 | 0.28 | 0.38 | 66.4 |
| 4/30/2015 10:37:38 | 52.82 | 46.32 | 1,204 | 0.27 | 0.37 | 65.8 |
| 4/30/2015 10:37:39 | 53.15 | 46.65 | 1,204 | 0.27 | 0.37 | 65.8 |
| 4/30/2015 10:37:39 | 53.48 | 46.98 | 1,211 | 0.27 | 0.37 | 66.2 |
| 4/30/2015 10:37:39 | 53.81 | 47.31 | 1,211 | 0.27 | 0.37 | 66.2 |
| 4/30/2015 10:37:39 | 54.13 | 47.63 | 1,206 | 0.27 | 0.36 | 65.9 |
| 4/30/2015 10:37:40 | 54.46 | 47.96 | 1,200 | 0.26 | 0.38 | 65.6 |
| 4/30/2015 10:37:40 | 54.79 | 48.29 | 1,200 | 0.26 | 0.38 | 65.6 |
| 4/30/2015 10:37:41 | 55.12 | 48.62 | 1,200 | 0.26 | 0.38 | 65.6 |
| 4/30/2015 10:37:42 | 55.45 | 48.95 | 420 | 0.27 | 0.39 | 23.0 |
| 4/30/2015 10:37:43 | 55.77 | 49.27 | 361 | 0.27 | 0.39 | 19.7 |
| 4/30/2015 10:37:43 | 56.10 | 49.60 | 361 | 0.27 | 0.39 | 19.7 |
| 4/30/2015 10:37:43 | 56.43 | 49.93 | 388 | 0.27 | 0.39 | 21.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:37:46 | 56.76 | 50.26 | 456 | 1.85 | 0.39 | 24.9 |
| 4/30/2015 | 10:37:46 | 57.09 | 50.59 | 331 | 1.91 | 0.38 | 18.1 |
| 4/30/2015 | 10:37:47 | 57.41 | 50.91 | 331 | 1.91 | 0.38 | 18.1 |
| 4/30/2015 | 10:37:47 | 57.74 | 51.24 | 331 | 1.94 | 0.40 | 18.1 |
| 4/30/2015 | 10:37:47 | 58.07 | 51.57 | 324 | 2.25 | 0.44 | 17.7 |
| 4/30/2015 | 10:37:48 | 58.40 | 51.90 | 437 | 2.27 | 0.44 | 23.9 |
| 4/30/2015 | 10:37:49 | 58.73 | 52.23 | 513 | 2.25 | 0.43 | 28.0 |
| 4/30/2015 | 10:37:50 | 59.06 | 52.56 | 414 | 2.22 | 0.43 | 22.6 |
| 4/30/2015 | 10:37:51 | 59.38 | 52.88 | 463 | 2.31 | 0.44 | 25.3 |
| 4/30/2015 | 10:37:51 | 59.71 | 53.21 | 488 | 2.30 | 0.43 | 26.7 |
| 4/30/2015 | 10:37:54 | 60.04 | 53.54 | 63 | 2.01 | 0.40 | 3.4 |
| 4/30/2015 | 10:37:55 | 60.37 | 53.87 | 100 | 2.02 | 0.41 | 5.5 |
| 4/30/2015 | 10:37:56 | 60.70 | 54.20 | 243 | 1.96 | 0.40 | 13.3 |
| 4/30/2015 | 10:37:56 | 61.02 | 54.52 | 405 | 1.99 | 0.40 | 22.1 |
| 4/30/2015 | 10:37:57 | 61.35 | 54.85 | 559 | 2.23 | 0.42 | 30.6 |
| 4/30/2015 | 10:37:57 | 61.68 | 55.18 | 679 | 3.11 | 0.45 | 37.1 |
| 4/30/2015 | 10:37:57 | 61.74 | 55.24 | 679 | 3.11 | 0.45 | 37.1 |

## K213 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:30:58

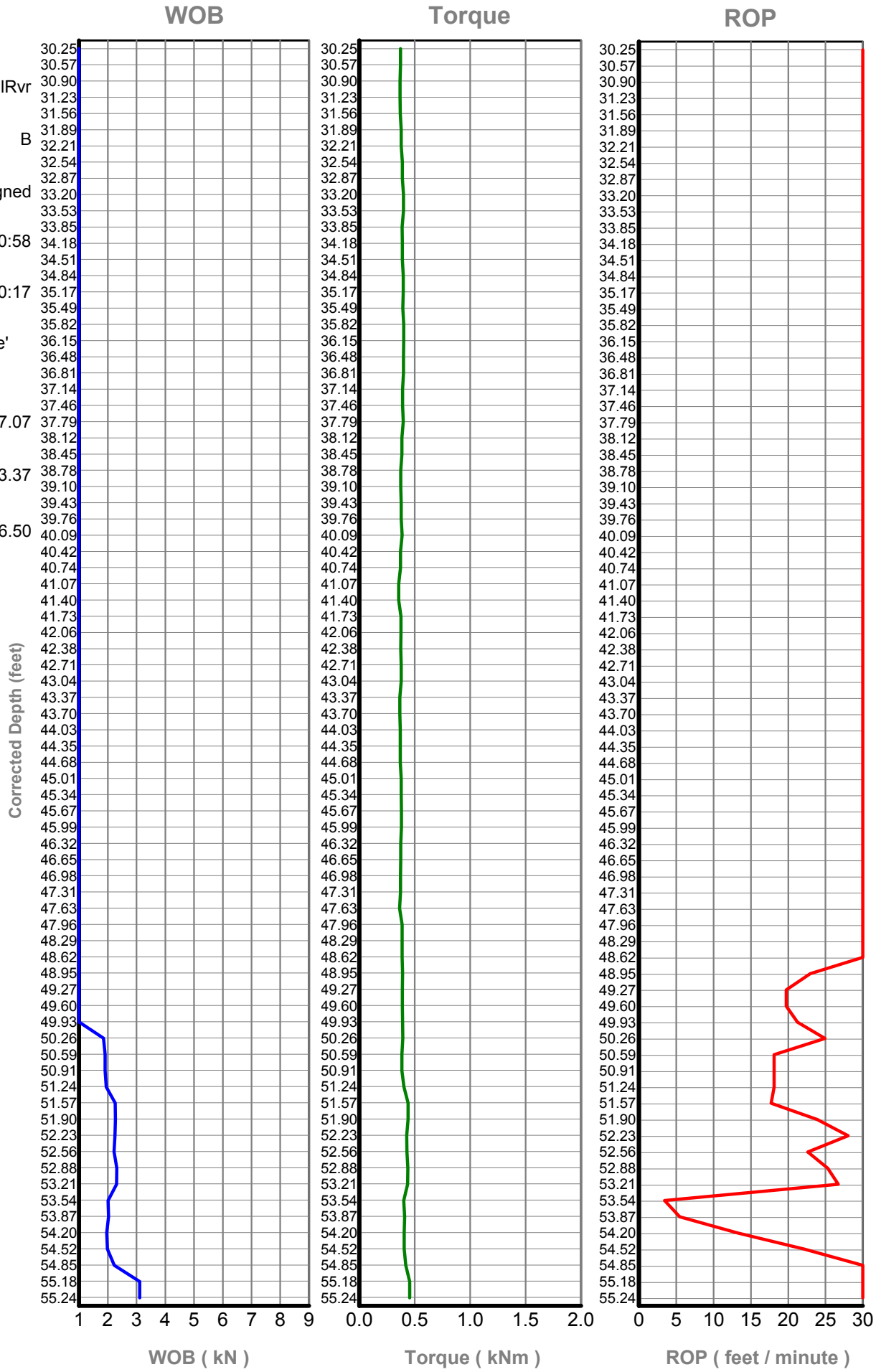
**End Date:**
4/30/2015 10:40:17

**Operator Note:**
'6.5 6.5 b Auto Complete'

**Northing:**
361,127.07

**Easting:**
244,643.37

**Tide (feet):**
6.50



## Hole: K214 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:41:55 | 36.42 | 30.22 | 868 | 1.18 | 0.16 | 47.5 |
| 4/30/2015 11:41:55 | 36.75 | 30.55 | 863 | 1.19 | 0.14 | 47.2 |
| 4/30/2015 11:41:56 | 37.07 | 30.87 | 868 | 1.19 | 0.16 | 47.5 |
| 4/30/2015 11:41:57 | 37.40 | 31.20 | 871 | 1.18 | 0.16 | 47.6 |
| 4/30/2015 11:41:57 | 37.73 | 31.53 | 871 | 1.18 | 0.16 | 47.6 |
| 4/30/2015 11:41:57 | 38.06 | 31.86 | 881 | 1.20 | 0.16 | 48.2 |
| 4/30/2015 11:41:58 | 38.39 | 32.19 | 870 | 1.19 | 0.16 | 47.6 |
| 4/30/2015 11:41:58 | 38.71 | 32.51 | 873 | 1.19 | 0.17 | 47.7 |
| 4/30/2015 11:41:59 | 39.04 | 32.84 | 873 | 1.17 | 0.16 | 47.7 |
| 4/30/2015 11:41:59 | 39.37 | 33.17 | 873 | 1.17 | 0.16 | 47.7 |
| 4/30/2015 11:41:59 | 39.70 | 33.50 | 870 | 1.19 | 0.17 | 47.6 |
| 4/30/2015 11:42:00 | 40.03 | 33.83 | 862 | 1.20 | 0.16 | 47.1 |
| 4/30/2015 11:42:00 | 40.35 | 34.15 | 870 | 1.21 | 0.16 | 47.6 |
| 4/30/2015 11:42:01 | 40.68 | 34.48 | 864 | 1.17 | 0.16 | 47.3 |
| 4/30/2015 11:42:01 | 41.01 | 34.81 | 864 | 1.17 | 0.16 | 47.3 |
| 4/30/2015 11:42:01 | 41.34 | 35.14 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:02 | 41.67 | 35.47 | 862 | 1.19 | 0.16 | 47.1 |
| 4/30/2015 11:42:02 | 41.99 | 35.79 | 864 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 11:42:03 | 42.32 | 36.12 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:03 | 42.65 | 36.45 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:03 | 42.98 | 36.78 | 861 | 1.19 | 0.16 | 47.1 |
| 4/30/2015 11:42:04 | 43.31 | 37.11 | 864 | 1.18 | 0.16 | 47.3 |
| 4/30/2015 11:42:04 | 43.64 | 37.44 | 864 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 11:42:05 | 43.96 | 37.76 | 861 | 1.19 | 0.16 | 47.1 |
| 4/30/2015 11:42:05 | 44.29 | 38.09 | 861 | 1.19 | 0.16 | 47.1 |
| 4/30/2015 11:42:05 | 44.62 | 38.42 | 867 | 1.20 | 0.16 | 47.4 |
| 4/30/2015 11:42:06 | 44.95 | 38.75 | 862 | 1.20 | 0.16 | 47.1 |
| 4/30/2015 11:42:07 | 45.28 | 39.08 | 867 | 1.21 | 0.16 | 47.4 |
| 4/30/2015 11:42:07 | 45.60 | 39.40 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:08 | 45.93 | 39.73 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:08 | 46.26 | 40.06 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:08 | 46.59 | 40.39 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:09 | 46.92 | 40.72 | 859 | 1.19 | 0.16 | 46.9 |
| 4/30/2015 11:42:09 | 47.24 | 41.04 | 850 | 1.19 | 0.16 | 46.5 |
| 4/30/2015 11:42:10 | 47.57 | 41.37 | 850 | 1.19 | 0.16 | 46.5 |
| 4/30/2015 11:42:10 | 47.90 | 41.70 | 859 | 1.20 | 0.16 | 46.9 |
| 4/30/2015 11:42:10 | 48.23 | 42.03 | 859 | 1.16 | 0.16 | 46.9 |
| 4/30/2015 11:42:11 | 48.56 | 42.36 | 862 | 1.19 | 0.16 | 47.1 |
| 4/30/2015 11:42:11 | 48.88 | 42.68 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:12 | 49.21 | 43.01 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:12 | 49.54 | 43.34 | 864 | 1.19 | 0.16 | 47.2 |
| 4/30/2015 11:42:12 | 49.87 | 43.67 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:13 | 50.20 | 44.00 | 859 | 1.19 | 0.16 | 46.9 |
| 4/30/2015 11:42:13 | 50.53 | 44.33 | 850 | 1.19 | 0.16 | 46.5 |
| 4/30/2015 11:42:14 | 50.85 | 44.65 | 850 | 1.19 | 0.16 | 46.5 |
| 4/30/2015 11:42:14 | 51.18 | 44.98 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 11:42:14 | 51.51 | 45.31 | 850 | 1.19 | 0.16 | 46.5 |
| 4/30/2015 11:42:15 | 51.84 | 45.64 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 11:42:15 | 52.17 | 45.97 | 853 | 1.18 | 0.16 | 46.6 |
| 4/30/2015 11:42:16 | 52.49 | 46.29 | 853 | 1.18 | 0.16 | 46.6 |
| 4/30/2015 11:42:16 | 52.82 | 46.62 | 858 | 1.19 | 0.16 | 46.9 |
| 4/30/2015 11:42:16 | 53.15 | 46.95 | 853 | 1.19 | 0.16 | 46.6 |
| 4/30/2015 11:42:17 | 53.48 | 47.28 | 853 | 1.38 | 0.16 | 46.6 |
| 4/30/2015 11:42:23 | 53.81 | 47.61 | 35 | 1.20 | 1.12 | 1.9 |
| 4/30/2015 11:42:26 | 54.13 | 47.93 | 165 | 1.15 | 0.92 | 9.0 |
| 4/30/2015 11:42:28 | 54.46 | 48.26 | 231 | 1.17 | 1.09 | 12.6 |
| 4/30/2015 11:42:29 | 54.79 | 48.59 | 301 | 1.19 | 0.95 | 16.4 |
| 4/30/2015 11:42:29 | 55.12 | 48.92 | 301 | 1.19 | 0.97 | 16.4 |
| 4/30/2015 11:42:30 | 55.45 | 49.25 | 410 | 1.17 | 1.21 | 22.4 |
| 4/30/2015 11:42:31 | 55.77 | 49.57 | 408 | 1.19 | 1.03 | 22.3 |
| 4/30/2015 11:42:32 | 56.10 | 49.90 | 397 | 1.19 | 1.00 | 21.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:42:33 | 56.43 | 50.23 | 387 | 1.17 | 0.83 | 21.2 |
| 4/30/2015 | 11:42:34 | 56.76 | 50.56 | 389 | 1.21 | 0.95 | 21.3 |
| 4/30/2015 | 11:42:35 | 57.09 | 50.89 | 311 | 1.19 | 1.05 | 17.0 |
| 4/30/2015 | 11:42:36 | 57.41 | 51.21 | 286 | 1.17 | 0.96 | 15.7 |
| 4/30/2015 | 11:42:37 | 57.74 | 51.54 | 305 | 1.17 | 0.91 | 16.7 |
| 4/30/2015 | 11:42:38 | 58.07 | 51.87 | 347 | 1.17 | 0.87 | 19.0 |
| 4/30/2015 | 11:42:39 | 58.40 | 52.20 | 379 | 1.18 | 0.91 | 20.7 |
| 4/30/2015 | 11:42:40 | 58.73 | 52.53 | 399 | 1.19 | 0.90 | 21.8 |
| 4/30/2015 | 11:42:41 | 59.06 | 52.86 | 419 | 1.18 | 0.87 | 22.9 |
| 4/30/2015 | 11:42:46 | 59.38 | 53.18 | 17 | 1.16 | 1.03 | 0.9 |
| 4/30/2015 | 11:42:53 | 59.71 | 53.51 | 53 | 1.15 | 1.07 | 2.9 |
| 4/30/2015 | 11:42:58 | 60.04 | 53.84 | 66 | 1.11 | 1.13 | 3.6 |
| 4/30/2015 | 11:43:02 | 60.37 | 54.17 | 116 | 1.21 | 1.09 | 6.3 |
| 4/30/2015 | 11:43:07 | 60.70 | 54.50 | 64 | 1.07 | 1.14 | 3.5 |
| 4/30/2015 | 11:43:13 | 61.02 | 54.82 | 59 | 1.19 | 1.08 | 3.2 |
| 4/30/2015 | 11:43:17 | 61.35 | 55.15 | 98 | 1.14 | 1.11 | 5.3 |
| 4/30/2015 | 11:43:20 | 61.46 | 55.26 | 69 | 0.69 | 1.14 | 3.8 |

## K214 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:39:54

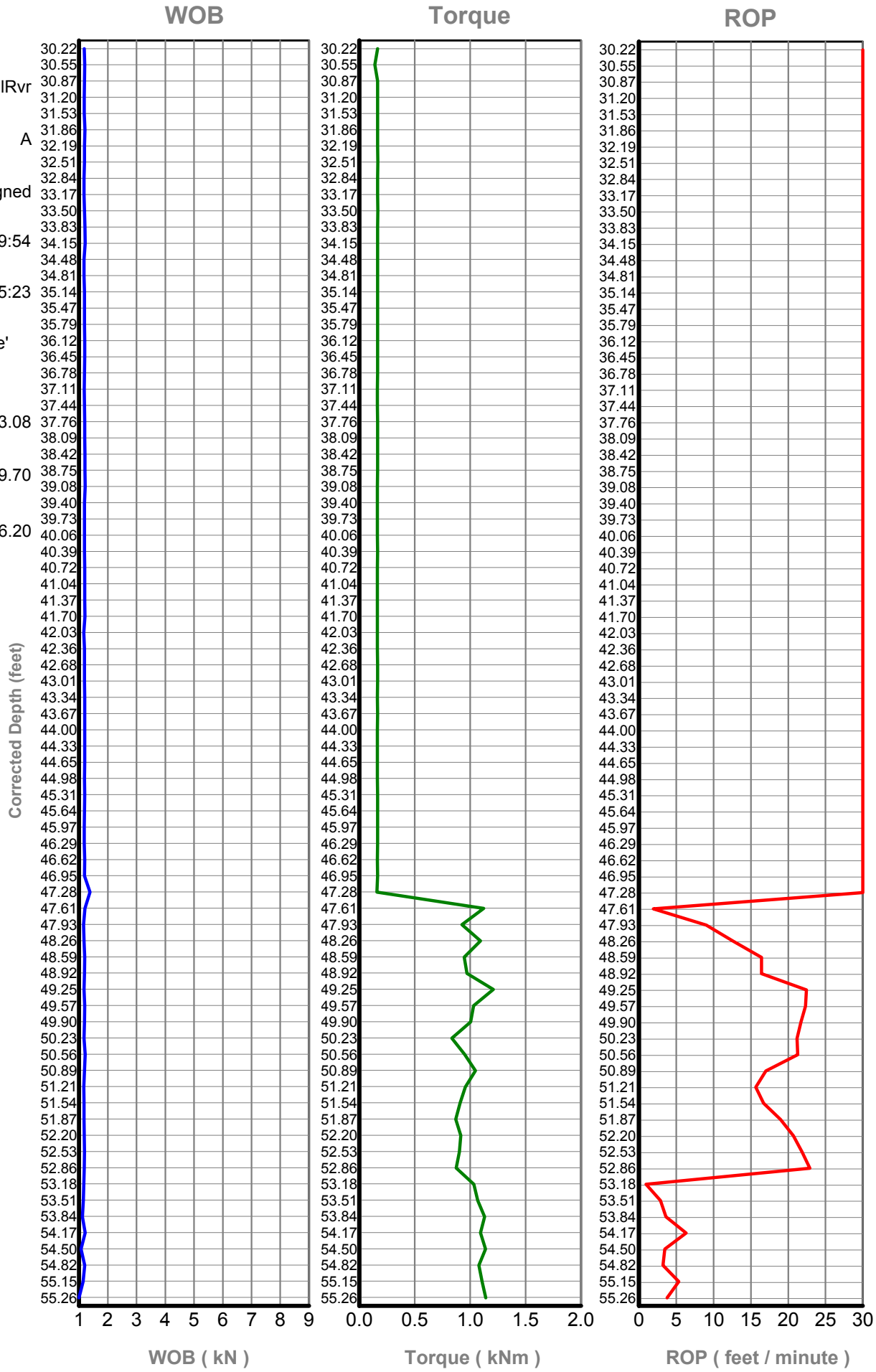
**End Date:**
4/30/2015 11:45:23

**Operator Note:**
'6.2 6.5 a Auto Complete'

**Northing:**
361,163.08

**Easting:**
244,679.70

**Tide (feet):**
6.20



## Hole: K215 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:40:40 | 36.42 | 30.02 | 1,130 | 0.33 | 0.37 | 61.8 |
| 4/30/2015 11:40:41 | 36.75 | 30.35 | 1,125 | 0.34 | 0.38 | 61.5 |
| 4/30/2015 11:40:41 | 37.07 | 30.67 | 1,125 | 0.34 | 0.38 | 61.5 |
| 4/30/2015 11:40:41 | 37.40 | 31.00 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 11:40:42 | 37.73 | 31.33 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 11:40:42 | 38.06 | 31.66 | 1,127 | 0.33 | 0.37 | 61.6 |
| 4/30/2015 11:40:42 | 38.39 | 31.99 | 1,130 | 0.33 | 0.38 | 61.8 |
| 4/30/2015 11:40:43 | 38.71 | 32.31 | 1,130 | 0.33 | 0.38 | 61.8 |
| 4/30/2015 11:40:43 | 39.04 | 32.64 | 1,127 | 0.34 | 0.37 | 61.6 |
| 4/30/2015 11:40:44 | 39.37 | 32.97 | 1,127 | 0.34 | 0.37 | 61.6 |
| 4/30/2015 11:40:43 | 39.70 | 33.30 | 1,109 | 0.29 | 0.37 | 60.7 |
| 4/30/2015 11:40:44 | 40.03 | 33.63 | 1,109 | 0.28 | 0.37 | 60.7 |
| 4/30/2015 11:40:44 | 40.35 | 33.95 | 1,109 | 0.28 | 0.37 | 60.7 |
| 4/30/2015 11:40:45 | 40.68 | 34.28 | 1,131 | 0.28 | 0.37 | 61.9 |
| 4/30/2015 11:40:45 | 41.01 | 34.61 | 1,131 | 0.28 | 0.37 | 61.9 |
| 4/30/2015 11:40:45 | 41.34 | 34.94 | 1,116 | 0.27 | 0.37 | 61.0 |
| 4/30/2015 11:40:46 | 41.67 | 35.27 | 1,129 | 0.31 | 0.37 | 61.7 |
| 4/30/2015 11:40:46 | 41.99 | 35.59 | 1,129 | 0.31 | 0.37 | 61.7 |
| 4/30/2015 11:40:46 | 42.32 | 35.92 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 11:40:47 | 42.65 | 36.25 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 11:40:47 | 42.98 | 36.58 | 1,198 | 0.33 | 0.37 | 65.5 |
| 4/30/2015 11:40:47 | 43.31 | 36.91 | 1,198 | 0.33 | 0.37 | 65.5 |
| 4/30/2015 11:40:47 | 43.64 | 37.24 | 1,184 | 0.28 | 0.36 | 64.8 |
| 4/30/2015 11:40:48 | 43.96 | 37.56 | 1,208 | 0.31 | 0.37 | 66.1 |
| 4/30/2015 11:40:48 | 44.29 | 37.89 | 1,208 | 0.31 | 0.37 | 66.1 |
| 4/30/2015 11:40:48 | 44.62 | 38.22 | 1,205 | 0.22 | 0.38 | 65.9 |
| 4/30/2015 11:40:49 | 44.95 | 38.55 | 1,205 | 0.22 | 0.38 | 65.9 |
| 4/30/2015 11:40:49 | 45.28 | 38.88 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 11:40:49 | 45.60 | 39.20 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 11:40:49 | 45.93 | 39.53 | 1,182 | 0.28 | 0.37 | 64.6 |
| 4/30/2015 11:40:50 | 46.26 | 39.86 | 1,184 | 0.27 | 0.38 | 64.7 |
| 4/30/2015 11:40:50 | 46.59 | 40.19 | 1,184 | 0.27 | 0.38 | 64.7 |
| 4/30/2015 11:40:50 | 46.92 | 40.52 | 1,177 | 0.25 | 0.36 | 64.4 |
| 4/30/2015 11:40:51 | 47.24 | 40.84 | 1,177 | 0.25 | 0.36 | 64.4 |
| 4/30/2015 11:40:51 | 47.57 | 41.17 | 1,198 | 0.27 | 0.36 | 65.5 |
| 4/30/2015 11:40:51 | 47.90 | 41.50 | 1,201 | 0.28 | 0.37 | 65.7 |
| 4/30/2015 11:40:52 | 48.23 | 41.83 | 1,201 | 0.28 | 0.37 | 65.7 |
| 4/30/2015 11:40:52 | 48.56 | 42.16 | 1,204 | 0.28 | 0.38 | 65.8 |
| 4/30/2015 11:40:52 | 48.88 | 42.48 | 1,204 | 0.28 | 0.38 | 65.8 |
| 4/30/2015 11:40:52 | 49.21 | 42.81 | 1,204 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 11:40:53 | 49.54 | 43.14 | 1,204 | 0.28 | 0.37 | 65.8 |
| 4/30/2015 11:40:53 | 49.87 | 43.47 | 1,223 | 0.27 | 0.38 | 66.9 |
| 4/30/2015 11:40:53 | 50.20 | 43.80 | 1,223 | 0.27 | 0.38 | 66.9 |
| 4/30/2015 11:40:53 | 50.53 | 44.13 | 1,205 | 0.27 | 0.36 | 65.9 |
| 4/30/2015 11:40:54 | 50.85 | 44.45 | 1,202 | 0.33 | 0.38 | 65.8 |
| 4/30/2015 11:40:54 | 51.18 | 44.78 | 1,202 | 0.33 | 0.38 | 65.8 |
| 4/30/2015 11:40:54 | 51.51 | 45.11 | 1,200 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 11:40:55 | 51.84 | 45.44 | 1,200 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 11:40:55 | 52.17 | 45.77 | 1,209 | 0.27 | 0.38 | 66.1 |
| 4/30/2015 11:40:56 | 52.49 | 46.09 | 1,209 | 0.27 | 0.38 | 66.1 |
| 4/30/2015 11:40:55 | 52.82 | 46.42 | 1,200 | 0.27 | 0.37 | 65.6 |
| 4/30/2015 11:40:56 | 53.15 | 46.75 | 1,198 | 0.27 | 0.38 | 65.5 |
| 4/30/2015 11:40:57 | 53.48 | 47.08 | 1,198 | 0.27 | 0.38 | 65.5 |
| 4/30/2015 11:40:57 | 53.81 | 47.41 | 1,157 | 0.27 | 0.39 | 63.3 |
| 4/30/2015 11:40:57 | 54.13 | 47.73 | 1,128 | 0.28 | 0.40 | 61.7 |
| 4/30/2015 11:40:58 | 54.46 | 48.06 | 1,128 | 0.28 | 0.40 | 61.7 |
| 4/30/2015 11:41:07 | 54.79 | 48.39 | 0 | 2.15 | 0.38 | 0.0 |
| 4/30/2015 11:41:07 | 55.12 | 48.72 | 174 | 2.17 | 0.39 | 9.5 |
| 4/30/2015 11:41:08 | 55.45 | 49.05 | 174 | 2.17 | 0.39 | 9.5 |
| 4/30/2015 11:41:08 | 55.77 | 49.37 | 392 | 2.20 | 0.39 | 21.4 |
| 4/30/2015 11:41:08 | 56.10 | 49.70 | 583 | 2.22 | 0.40 | 31.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:41:09 | 56.43 | 50.03 | 583 | 2.22 | 0.40 | 31.9 |
| 4/30/2015 | 11:41:09 | 56.76 | 50.36 | 781 | 2.24 | 0.39 | 42.7 |
| 4/30/2015 | 11:41:09 | 57.09 | 50.69 | 969 | 2.25 | 0.39 | 53.0 |
| 4/30/2015 | 11:41:10 | 57.41 | 51.01 | 969 | 2.25 | 0.39 | 53.0 |
| 4/30/2015 | 11:41:10 | 57.74 | 51.34 | 998 | 2.23 | 0.40 | 54.6 |
| 4/30/2015 | 11:41:10 | 58.07 | 51.67 | 977 | 2.55 | 0.40 | 53.4 |
| 4/30/2015 | 11:41:11 | 58.40 | 52.00 | 949 | 2.30 | 0.39 | 51.9 |
| 4/30/2015 | 11:41:11 | 58.73 | 52.33 | 949 | 2.30 | 0.39 | 51.9 |
| 4/30/2015 | 11:41:11 | 59.06 | 52.66 | 942 | 2.37 | 0.40 | 51.5 |
| 4/30/2015 | 11:41:12 | 59.38 | 52.98 | 945 | 2.31 | 0.39 | 51.7 |
| 4/30/2015 | 11:41:12 | 59.71 | 53.31 | 945 | 2.31 | 0.39 | 51.7 |
| 4/30/2015 | 11:41:12 | 60.04 | 53.64 | 926 | 2.15 | 0.38 | 50.6 |
| 4/30/2015 | 11:41:13 | 60.37 | 53.97 | 947 | 2.17 | 0.39 | 51.8 |
| 4/30/2015 | 11:41:13 | 60.70 | 54.30 | 981 | 2.23 | 0.39 | 53.7 |
| 4/30/2015 | 11:41:14 | 61.02 | 54.62 | 981 | 2.23 | 0.39 | 53.7 |
| 4/30/2015 | 11:41:14 | 61.35 | 54.95 | 982 | 2.40 | 0.40 | 53.7 |
| 4/30/2015 | 11:41:14 | 61.68 | 55.28 | 978 | 2.97 | 0.41 | 53.5 |
| 4/30/2015 | 11:41:14 | 61.76 | 55.36 | 978 | 2.97 | 0.41 | 53.5 |

## K215 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:38:41

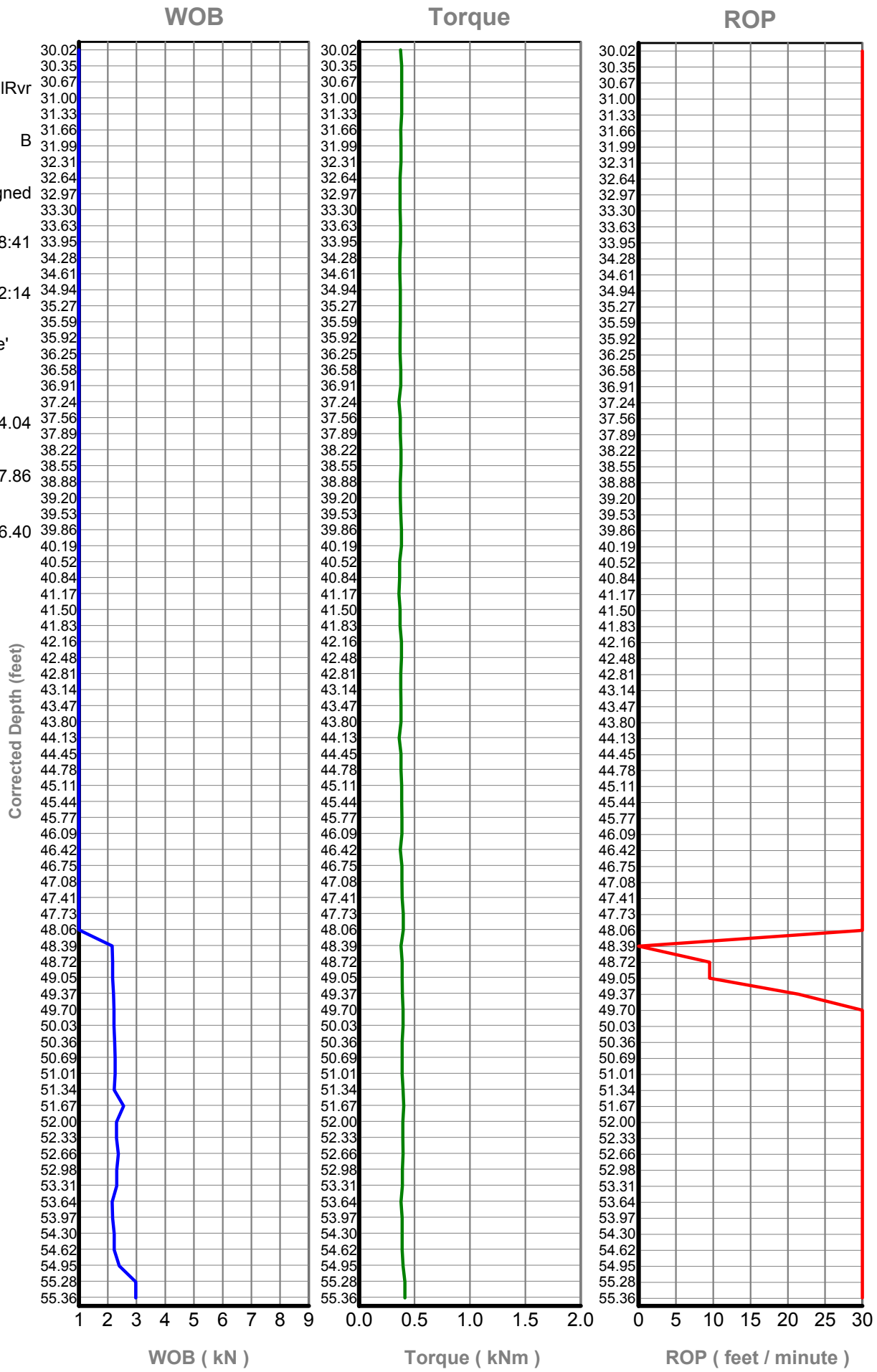
**End Date:**
4/30/2015 11:42:14

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
361,204.04

**Easting:**
244,737.86

**Tide (feet):**
6.40



## Hole: K216 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:40:43 | 36.42 | 30.02 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 11:40:43 | 36.75 | 30.35 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 11:40:43 | 37.07 | 30.67 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 11:40:44 | 37.40 | 31.00 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:44 | 37.73 | 31.33 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:44 | 38.06 | 31.66 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:45 | 38.39 | 31.99 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:45 | 38.71 | 32.31 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:45 | 39.04 | 32.64 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:46 | 39.37 | 32.97 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 11:40:46 | 39.70 | 33.30 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 11:40:46 | 40.03 | 33.63 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:47 | 40.35 | 33.95 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 11:40:47 | 40.68 | 34.28 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 11:40:47 | 41.01 | 34.61 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:48 | 41.34 | 34.94 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:48 | 41.67 | 35.27 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 11:40:48 | 41.99 | 35.59 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:49 | 42.32 | 35.92 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:49 | 42.65 | 36.25 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:49 | 42.98 | 36.58 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:40:50 | 43.31 | 36.91 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:40:50 | 43.64 | 37.24 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:40:50 | 43.96 | 37.56 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:51 | 44.29 | 37.89 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:51 | 44.62 | 38.22 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:40:51 | 44.95 | 38.55 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:52 | 45.28 | 38.88 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:52 | 45.60 | 39.20 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:40:52 | 45.93 | 39.53 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:40:53 | 46.26 | 39.86 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 11:40:53 | 46.59 | 40.19 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 11:40:53 | 46.92 | 40.52 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:54 | 47.24 | 40.84 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 11:40:54 | 47.57 | 41.17 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 11:40:55 | 47.90 | 41.50 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 11:40:55 | 48.23 | 41.83 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 11:40:55 | 48.56 | 42.16 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 11:40:56 | 48.88 | 42.48 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 11:40:56 | 49.21 | 42.81 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 11:40:56 | 49.54 | 43.14 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:57 | 49.87 | 43.47 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:57 | 50.20 | 43.80 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:40:57 | 50.53 | 44.13 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:58 | 50.85 | 44.45 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:40:58 | 51.18 | 44.78 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 11:40:58 | 51.51 | 45.11 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 11:40:59 | 51.84 | 45.44 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 11:40:59 | 52.17 | 45.77 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 11:40:59 | 52.49 | 46.09 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 11:41:00 | 52.82 | 46.42 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 11:41:00 | 53.15 | 46.75 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 11:41:00 | 53.48 | 47.08 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 11:41:01 | 53.81 | 47.41 | 988 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 11:41:01 | 54.13 | 47.73 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 11:41:02 | 54.46 | 48.06 | 879 | 1.14 | 0.29 | 48.1 |
| 4/30/2015 11:41:02 | 54.79 | 48.39 | 839 | 1.14 | 0.29 | 45.9 |
| 4/30/2015 11:41:03 | 55.12 | 48.72 | 839 | 1.14 | 0.29 | 45.9 |
| 4/30/2015 11:41:03 | 55.45 | 49.05 | 785 | 1.14 | 0.29 | 42.9 |
| 4/30/2015 11:41:23 | 55.77 | 49.37 | 17 | 1.14 | 0.29 | 0.9 |
| 4/30/2015 11:41:23 | 56.10 | 49.70 | 120 | 1.14 | 0.29 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:41:24 | 56.43 | 50.03 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 | 11:41:25 | 56.76 | 50.36 | 407 | 1.14 | 0.29 | 22.3 |
| 4/30/2015 | 11:41:26 | 57.09 | 50.69 | 392 | 1.14 | 0.29 | 21.5 |
| 4/30/2015 | 11:41:27 | 57.41 | 51.01 | 416 | 1.14 | 0.29 | 22.7 |
| 4/30/2015 | 11:41:27 | 57.74 | 51.34 | 454 | 1.14 | 0.29 | 24.8 |
| 4/30/2015 | 11:41:32 | 58.07 | 51.67 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 11:41:32 | 58.40 | 52.00 | 144 | 1.14 | 0.29 | 7.9 |
| 4/30/2015 | 11:41:33 | 58.73 | 52.33 | 370 | 1.14 | 0.29 | 20.3 |
| 4/30/2015 | 11:41:34 | 59.06 | 52.66 | 482 | 1.14 | 0.29 | 26.4 |
| 4/30/2015 | 11:41:34 | 59.38 | 52.98 | 558 | 1.14 | 0.29 | 30.5 |
| 4/30/2015 | 11:41:35 | 59.71 | 53.31 | 547 | 1.14 | 0.29 | 29.9 |
| 4/30/2015 | 11:41:40 | 60.04 | 53.64 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 11:41:40 | 60.37 | 53.97 | 103 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 | 11:41:50 | 60.70 | 54.30 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 11:41:52 | 61.02 | 54.62 | 124 | 1.14 | 0.29 | 6.8 |
| 4/30/2015 | 11:41:57 | 61.35 | 54.95 | 59 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 | 11:41:58 | 61.44 | 55.04 | 93 | 1.14 | 0.29 | 5.1 |

## K216 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:38:57

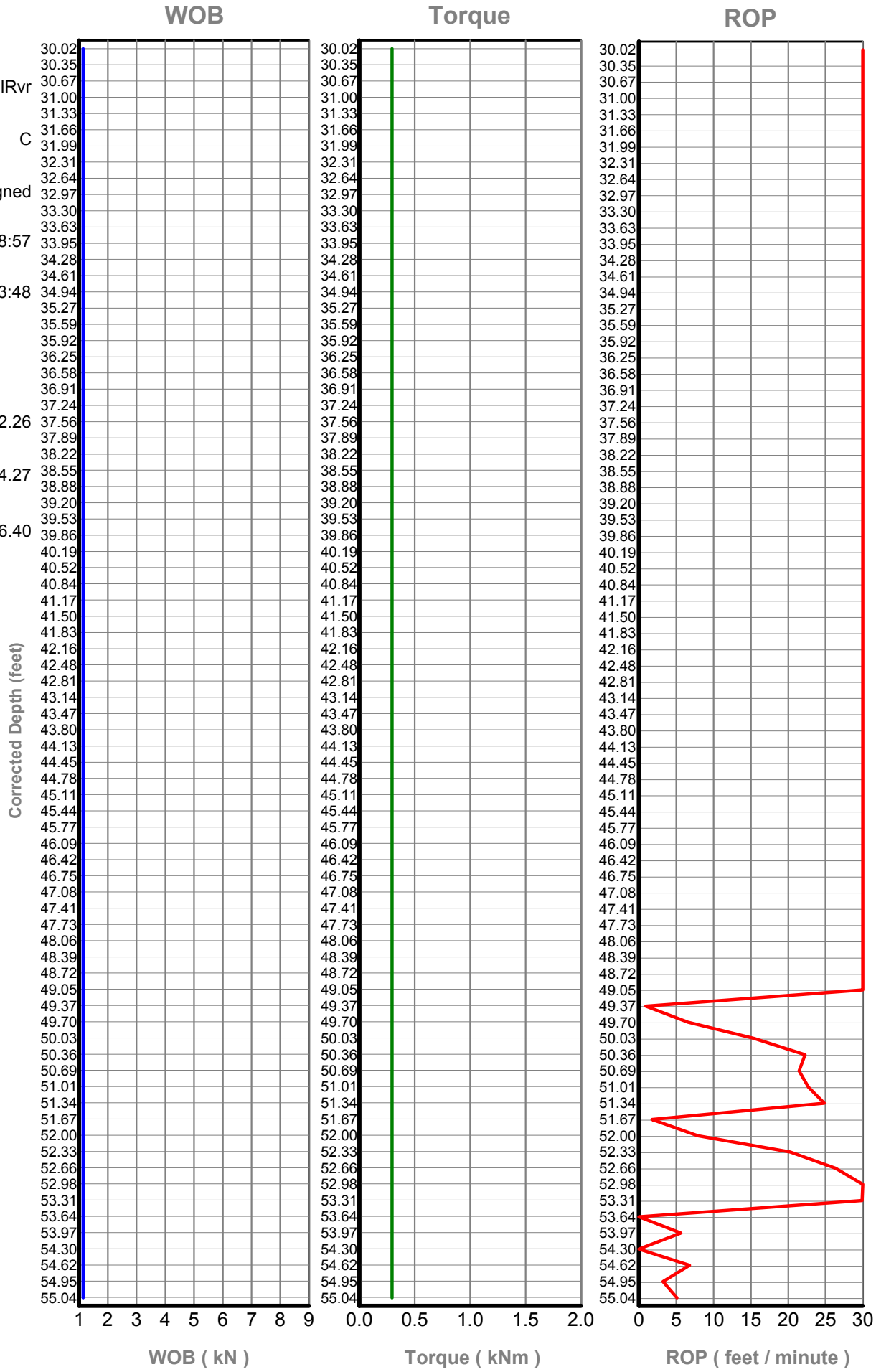
**End Date:**
4/30/2015 11:43:48

**Operator Note:**
'6.4 6.4 C Auto Complete'

**Northing:**
361,252.26

**Easting:**
244,794.27

**Tide (feet):**
6.40



## Hole: K217 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:25:39 | 33.46 | 30.06 | 1,230 | 0.29 | 0.36 | 67.3 |
| 4/29/2015 13:25:39 | 33.79 | 30.39 | 1,247 | 0.29 | 0.35 | 68.2 |
| 4/29/2015 13:25:39 | 34.12 | 30.72 | 1,247 | 0.29 | 0.35 | 68.2 |
| 4/29/2015 13:25:39 | 34.45 | 31.05 | 1,264 | 0.29 | 0.38 | 69.1 |
| 4/29/2015 13:25:40 | 34.78 | 31.38 | 1,257 | 0.29 | 0.36 | 68.7 |
| 4/29/2015 13:25:40 | 35.11 | 31.71 | 1,257 | 0.29 | 0.36 | 68.7 |
| 4/29/2015 13:25:40 | 35.43 | 32.03 | 1,252 | 0.29 | 0.38 | 68.5 |
| 4/29/2015 13:25:41 | 35.76 | 32.36 | 1,252 | 0.29 | 0.38 | 68.5 |
| 4/29/2015 13:25:41 | 36.09 | 32.69 | 1,258 | 0.29 | 0.36 | 68.8 |
| 4/29/2015 13:25:41 | 36.42 | 33.02 | 1,258 | 0.29 | 0.36 | 68.8 |
| 4/29/2015 13:25:41 | 36.75 | 33.35 | 1,218 | 0.29 | 0.34 | 66.6 |
| 4/29/2015 13:25:42 | 37.07 | 33.67 | 1,218 | 0.29 | 0.34 | 66.6 |
| 4/29/2015 13:25:42 | 37.40 | 34.00 | 1,218 | 0.27 | 0.36 | 66.6 |
| 4/29/2015 13:25:42 | 37.73 | 34.33 | 1,222 | 0.26 | 0.36 | 66.8 |
| 4/29/2015 13:25:43 | 38.06 | 34.66 | 1,222 | 0.26 | 0.36 | 66.8 |
| 4/29/2015 13:25:43 | 38.39 | 34.99 | 1,222 | 0.26 | 0.35 | 66.8 |
| 4/29/2015 13:25:43 | 38.71 | 35.31 | 1,222 | 0.26 | 0.35 | 66.8 |
| 4/29/2015 13:25:43 | 39.04 | 35.64 | 1,233 | 0.26 | 0.36 | 67.4 |
| 4/29/2015 13:25:44 | 39.37 | 35.97 | 1,233 | 0.26 | 0.36 | 67.4 |
| 4/29/2015 13:25:44 | 39.70 | 36.30 | 1,250 | 0.25 | 0.35 | 68.3 |
| 4/29/2015 13:25:44 | 40.03 | 36.63 | 1,250 | 0.25 | 0.35 | 68.3 |
| 4/29/2015 13:25:44 | 40.35 | 36.95 | 1,250 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 13:25:45 | 40.68 | 37.28 | 1,250 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 13:25:45 | 41.01 | 37.61 | 1,278 | 0.28 | 0.36 | 69.9 |
| 4/29/2015 13:25:45 | 41.34 | 37.94 | 1,278 | 0.28 | 0.36 | 69.9 |
| 4/29/2015 13:25:45 | 41.67 | 38.27 | 1,282 | 0.22 | 0.37 | 70.1 |
| 4/29/2015 13:25:46 | 41.99 | 38.59 | 1,260 | 0.26 | 0.36 | 68.9 |
| 4/29/2015 13:25:47 | 42.32 | 38.92 | 1,260 | 0.26 | 0.36 | 68.9 |
| 4/29/2015 13:25:47 | 42.65 | 39.25 | 1,250 | 0.29 | 0.36 | 68.3 |
| 4/29/2015 13:25:47 | 42.98 | 39.58 | 1,250 | 0.29 | 0.36 | 68.3 |
| 4/29/2015 13:25:47 | 43.31 | 39.91 | 1,258 | 0.27 | 0.36 | 68.8 |
| 4/29/2015 13:25:48 | 43.64 | 40.24 | 1,258 | 0.27 | 0.36 | 68.8 |
| 4/29/2015 13:25:48 | 43.96 | 40.56 | 1,258 | 0.26 | 0.34 | 68.8 |
| 4/29/2015 13:25:48 | 44.29 | 40.89 | 1,258 | 0.26 | 0.34 | 68.8 |
| 4/29/2015 13:25:48 | 44.62 | 41.22 | 1,260 | 0.28 | 0.36 | 68.9 |
| 4/29/2015 13:25:49 | 44.95 | 41.55 | 1,260 | 0.28 | 0.36 | 68.9 |
| 4/29/2015 13:25:49 | 45.28 | 41.88 | 1,269 | 0.25 | 0.33 | 69.4 |
| 4/29/2015 13:25:49 | 45.60 | 42.20 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:25:50 | 45.93 | 42.53 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:25:50 | 46.26 | 42.86 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:25:50 | 46.59 | 43.19 | 1,275 | 0.26 | 0.36 | 69.7 |
| 4/29/2015 13:25:50 | 46.92 | 43.52 | 1,275 | 0.26 | 0.32 | 69.7 |
| 4/29/2015 13:25:51 | 47.24 | 43.84 | 1,275 | 0.26 | 0.32 | 69.7 |
| 4/29/2015 13:25:51 | 47.57 | 44.17 | 1,276 | 0.31 | 0.36 | 69.8 |
| 4/29/2015 13:25:51 | 47.90 | 44.50 | 1,276 | 0.31 | 0.36 | 69.8 |
| 4/29/2015 13:25:51 | 48.23 | 44.83 | 1,289 | 0.26 | 0.36 | 70.5 |
| 4/29/2015 13:25:52 | 48.56 | 45.16 | 1,289 | 0.26 | 0.36 | 70.5 |
| 4/29/2015 13:25:52 | 48.88 | 45.48 | 1,286 | 0.26 | 0.35 | 70.3 |
| 4/29/2015 13:25:52 | 49.21 | 45.81 | 1,286 | 0.26 | 0.35 | 70.3 |
| 4/29/2015 13:25:52 | 49.54 | 46.14 | 1,289 | 0.25 | 0.36 | 70.5 |
| 4/29/2015 13:25:53 | 49.87 | 46.47 | 1,267 | 0.26 | 0.37 | 69.3 |
| 4/29/2015 13:25:53 | 50.20 | 46.80 | 1,267 | 0.26 | 0.37 | 69.3 |
| 4/29/2015 13:25:53 | 50.53 | 47.13 | 1,232 | 0.26 | 0.38 | 67.4 |
| 4/29/2015 13:25:54 | 50.85 | 47.45 | 1,232 | 0.26 | 0.38 | 67.4 |
| 4/29/2015 13:25:54 | 51.18 | 47.78 | 1,191 | 0.25 | 0.37 | 65.1 |
| 4/29/2015 13:26:02 | 51.51 | 48.11 | 34 | 1.87 | 0.37 | 1.9 |
| 4/29/2015 13:26:03 | 51.84 | 48.44 | 34 | 1.87 | 0.37 | 1.9 |
| 4/29/2015 13:26:03 | 52.17 | 48.77 | 246 | 5.21 | 0.45 | 13.5 |
| 4/29/2015 13:26:03 | 52.49 | 49.09 | 380 | 1.70 | 0.37 | 20.8 |
| 4/29/2015 13:26:04 | 52.82 | 49.42 | 580 | 1.61 | 0.39 | 31.7 |
| 4/29/2015 13:26:04 | 53.15 | 49.75 | 580 | 1.61 | 0.39 | 31.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:26:04 | 53.48 | 50.08 | 798 | 1.65 | 0.38 | 43.6 |
| 4/29/2015 | 13:26:05 | 53.81 | 50.41 | 798 | 1.65 | 0.38 | 43.6 |
| 4/29/2015 | 13:26:05 | 54.13 | 50.73 | 975 | 1.68 | 0.38 | 53.3 |
| 4/29/2015 | 13:26:05 | 54.46 | 51.06 | 972 | 1.71 | 0.38 | 53.1 |
| 4/29/2015 | 13:26:06 | 54.79 | 51.39 | 1,035 | 2.08 | 0.42 | 56.6 |
| 4/29/2015 | 13:26:07 | 55.12 | 51.72 | 1,035 | 2.08 | 0.42 | 56.6 |
| 4/29/2015 | 13:26:06 | 55.45 | 52.05 | 978 | 2.00 | 0.41 | 53.5 |
| 4/29/2015 | 13:26:08 | 55.77 | 52.37 | 804 | 1.93 | 0.42 | 44.0 |
| 4/29/2015 | 13:26:08 | 56.10 | 52.70 | 715 | 2.03 | 0.43 | 39.1 |
| 4/29/2015 | 13:26:09 | 56.43 | 53.03 | 636 | 2.00 | 0.42 | 34.8 |
| 4/29/2015 | 13:26:09 | 56.76 | 53.36 | 636 | 1.93 | 0.40 | 34.8 |
| 4/29/2015 | 13:26:10 | 57.09 | 53.69 | 649 | 1.87 | 0.38 | 35.5 |
| 4/29/2015 | 13:26:10 | 57.41 | 54.01 | 649 | 1.87 | 0.38 | 35.5 |
| 4/29/2015 | 13:26:10 | 57.74 | 54.34 | 741 | 1.79 | 0.39 | 40.5 |
| 4/29/2015 | 13:26:11 | 58.07 | 54.67 | 818 | 1.84 | 0.39 | 44.7 |
| 4/29/2015 | 13:26:11 | 58.40 | 55.00 | 818 | 1.84 | 0.39 | 44.7 |
| 4/29/2015 | 13:26:13 | 58.73 | 55.33 | 500 | 2.45 | 0.48 | 27.3 |
| 4/29/2015 | 13:26:13 | 58.84 | 55.44 | 343 | 3.67 | 0.37 | 18.7 |

## K217 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:24:06

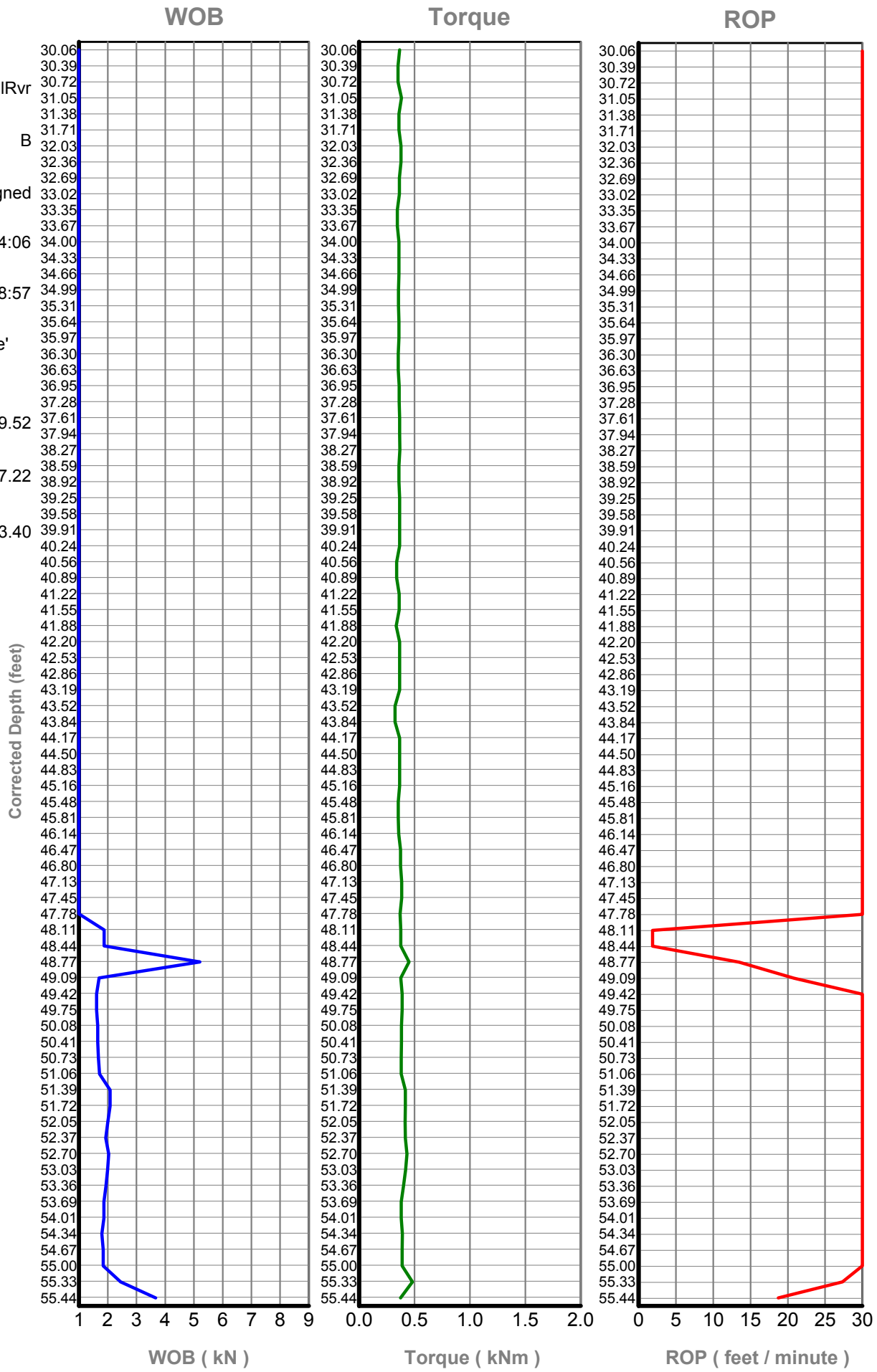
**End Date:**
4/29/2015 13:28:57

**Operator Note:**
'3.4 3.8 b Auto Complete'

**Northing:**
361,259.52

**Easting:**
244,837.22

**Tide (feet):**
3.40



## Hole: K218 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:13:53 | 33.79 | 30.19 | 1,250 | 0.33 | 0.37 | 68.3 |
| 4/29/2015 13:13:53 | 34.12 | 30.52 | 1,232 | 0.33 | 0.37 | 67.3 |
| 4/29/2015 13:13:54 | 34.45 | 30.85 | 1,232 | 0.33 | 0.37 | 67.3 |
| 4/29/2015 13:13:54 | 34.78 | 31.18 | 1,232 | 0.33 | 0.38 | 67.3 |
| 4/29/2015 13:13:54 | 35.11 | 31.51 | 1,232 | 0.33 | 0.38 | 67.3 |
| 4/29/2015 13:13:54 | 35.43 | 31.83 | 1,237 | 0.33 | 0.36 | 67.7 |
| 4/29/2015 13:13:55 | 35.76 | 32.16 | 1,237 | 0.33 | 0.36 | 67.7 |
| 4/29/2015 13:13:55 | 36.09 | 32.49 | 1,242 | 0.33 | 0.36 | 67.9 |
| 4/29/2015 13:13:55 | 36.42 | 32.82 | 1,242 | 0.33 | 0.36 | 67.9 |
| 4/29/2015 13:13:55 | 36.75 | 33.15 | 1,229 | 0.33 | 0.38 | 67.2 |
| 4/29/2015 13:13:56 | 37.07 | 33.47 | 1,236 | 0.32 | 0.36 | 67.6 |
| 4/29/2015 13:13:56 | 37.40 | 33.80 | 1,236 | 0.32 | 0.36 | 67.6 |
| 4/29/2015 13:13:56 | 37.73 | 34.13 | 1,221 | 0.31 | 0.38 | 66.8 |
| 4/29/2015 13:13:57 | 38.06 | 34.46 | 1,221 | 0.31 | 0.38 | 66.8 |
| 4/29/2015 13:13:57 | 38.39 | 34.79 | 1,232 | 0.31 | 0.37 | 67.4 |
| 4/29/2015 13:13:58 | 38.71 | 35.11 | 1,232 | 0.31 | 0.37 | 67.4 |
| 4/29/2015 13:13:58 | 39.04 | 35.44 | 1,227 | 0.27 | 0.36 | 67.1 |
| 4/29/2015 13:13:58 | 39.37 | 35.77 | 1,227 | 0.27 | 0.36 | 67.1 |
| 4/29/2015 13:13:58 | 39.70 | 36.10 | 1,247 | 0.26 | 0.36 | 68.2 |
| 4/29/2015 13:13:59 | 40.03 | 36.43 | 1,245 | 0.30 | 0.36 | 68.1 |
| 4/29/2015 13:13:59 | 40.35 | 36.75 | 1,245 | 0.30 | 0.36 | 68.1 |
| 4/29/2015 13:13:59 | 40.68 | 37.08 | 1,265 | 0.30 | 0.34 | 69.2 |
| 4/29/2015 13:14:00 | 41.01 | 37.41 | 1,265 | 0.30 | 0.34 | 69.2 |
| 4/29/2015 13:14:00 | 41.34 | 37.74 | 1,258 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 13:14:00 | 41.67 | 38.07 | 1,258 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 13:14:00 | 41.99 | 38.39 | 1,271 | 0.26 | 0.36 | 69.5 |
| 4/29/2015 13:14:01 | 42.32 | 38.72 | 1,271 | 0.26 | 0.36 | 69.5 |
| 4/29/2015 13:14:01 | 42.65 | 39.05 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 13:14:01 | 42.98 | 39.38 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 13:14:01 | 43.31 | 39.71 | 1,272 | 0.29 | 0.36 | 69.5 |
| 4/29/2015 13:14:02 | 43.64 | 40.04 | 1,272 | 0.29 | 0.36 | 69.5 |
| 4/29/2015 13:14:02 | 43.96 | 40.36 | 1,278 | 0.26 | 0.35 | 69.9 |
| 4/29/2015 13:14:02 | 44.29 | 40.69 | 1,281 | 0.26 | 0.35 | 70.0 |
| 4/29/2015 13:14:03 | 44.62 | 41.02 | 1,281 | 0.26 | 0.35 | 70.0 |
| 4/29/2015 13:14:03 | 44.95 | 41.35 | 1,271 | 0.26 | 0.33 | 69.5 |
| 4/29/2015 13:14:03 | 45.28 | 41.68 | 1,271 | 0.26 | 0.33 | 69.5 |
| 4/29/2015 13:14:03 | 45.60 | 42.00 | 1,290 | 0.26 | 0.37 | 70.5 |
| 4/29/2015 13:14:04 | 45.93 | 42.33 | 1,290 | 0.26 | 0.37 | 70.5 |
| 4/29/2015 13:14:04 | 46.26 | 42.66 | 1,284 | 0.27 | 0.36 | 70.2 |
| 4/29/2015 13:14:04 | 46.59 | 42.99 | 1,284 | 0.27 | 0.36 | 70.2 |
| 4/29/2015 13:14:04 | 46.92 | 43.32 | 1,287 | 0.27 | 0.37 | 70.4 |
| 4/29/2015 13:14:05 | 47.24 | 43.64 | 1,287 | 0.27 | 0.37 | 70.4 |
| 4/29/2015 13:14:05 | 47.57 | 43.97 | 1,290 | 0.28 | 0.37 | 70.5 |
| 4/29/2015 13:14:05 | 47.90 | 44.30 | 1,290 | 0.28 | 0.37 | 70.5 |
| 4/29/2015 13:14:05 | 48.23 | 44.63 | 1,294 | 0.24 | 0.34 | 70.8 |
| 4/29/2015 13:14:06 | 48.56 | 44.96 | 1,294 | 0.24 | 0.34 | 70.8 |
| 4/29/2015 13:14:06 | 48.88 | 45.28 | 1,284 | 0.26 | 0.36 | 70.2 |
| 4/29/2015 13:14:06 | 49.21 | 45.61 | 1,284 | 0.26 | 0.36 | 70.2 |
| 4/29/2015 13:14:06 | 49.54 | 45.94 | 1,286 | 0.26 | 0.35 | 70.3 |
| 4/29/2015 13:14:07 | 49.87 | 46.27 | 1,276 | 0.26 | 0.35 | 69.8 |
| 4/29/2015 13:14:07 | 50.20 | 46.60 | 1,276 | 0.26 | 0.35 | 69.8 |
| 4/29/2015 13:14:07 | 50.53 | 46.93 | 1,275 | 0.25 | 0.38 | 69.7 |
| 4/29/2015 13:14:08 | 50.85 | 47.25 | 1,275 | 0.25 | 0.38 | 69.7 |
| 4/29/2015 13:14:08 | 51.18 | 47.58 | 1,240 | 0.25 | 0.38 | 67.8 |
| 4/29/2015 13:14:09 | 51.51 | 47.91 | 1,202 | 0.25 | 0.38 | 65.7 |
| 4/29/2015 13:14:09 | 51.84 | 48.24 | 1,202 | 0.25 | 0.38 | 65.7 |
| 4/29/2015 13:14:09 | 52.17 | 48.57 | 1,154 | 0.25 | 0.38 | 63.1 |
| 4/29/2015 13:14:10 | 52.49 | 48.89 | 1,099 | 0.25 | 0.39 | 60.1 |
| 4/29/2015 13:14:10 | 52.82 | 49.22 | 1,099 | 0.25 | 0.39 | 60.1 |
| 4/29/2015 13:14:20 | 53.15 | 49.55 | 0 | 1.70 | 0.38 | 0.0 |
| 4/29/2015 13:14:20 | 53.48 | 49.88 | 161 | 1.72 | 0.38 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:14:21 | 53.81 | 50.21 | 161 | 1.72 | 0.38 | 8.8 |
| 4/29/2015 | 13:14:21 | 54.13 | 50.53 | 376 | 1.71 | 0.38 | 20.6 |
| 4/29/2015 | 13:14:21 | 54.46 | 50.86 | 576 | 1.81 | 0.40 | 31.5 |
| 4/29/2015 | 13:14:22 | 54.79 | 51.19 | 576 | 1.81 | 0.40 | 31.5 |
| 4/29/2015 | 13:14:22 | 55.12 | 51.52 | 758 | 2.04 | 0.42 | 41.5 |
| 4/29/2015 | 13:14:24 | 55.45 | 51.85 | 397 | 1.81 | 0.38 | 21.7 |
| 4/29/2015 | 13:14:26 | 55.77 | 52.17 | 108 | 2.50 | 0.43 | 5.9 |
| 4/29/2015 | 13:14:28 | 56.10 | 52.50 | 123 | 1.76 | 0.38 | 6.7 |
| 4/29/2015 | 13:14:29 | 56.43 | 52.83 | 226 | 1.93 | 0.42 | 12.4 |
| 4/29/2015 | 13:14:30 | 56.76 | 53.16 | 246 | 2.28 | 0.43 | 13.5 |
| 4/29/2015 | 13:14:35 | 57.09 | 53.49 | 43 | 5.30 | 0.46 | 2.3 |
| 4/29/2015 | 13:14:37 | 57.41 | 53.81 | 143 | 6.51 | 0.46 | 7.8 |
| 4/29/2015 | 13:14:40 | 57.74 | 54.14 | 63 | 4.44 | 0.54 | 3.5 |
| 4/29/2015 | 13:14:42 | 58.07 | 54.47 | 192 | 3.72 | 0.42 | 10.5 |
| 4/29/2015 | 13:14:43 | 58.40 | 54.80 | 272 | 3.18 | 0.43 | 14.9 |
| 4/29/2015 | 13:14:44 | 58.73 | 55.13 | 385 | 3.10 | 0.45 | 21.0 |
| 4/29/2015 | 13:14:46 | 59.06 | 55.46 | 202 | 3.12 | 0.46 | 11.0 |
| 4/29/2015 | 13:14:52 | 59.34 | 55.74 | 55 | 2.96 | 0.43 | 3.0 |

## K218 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:11:46

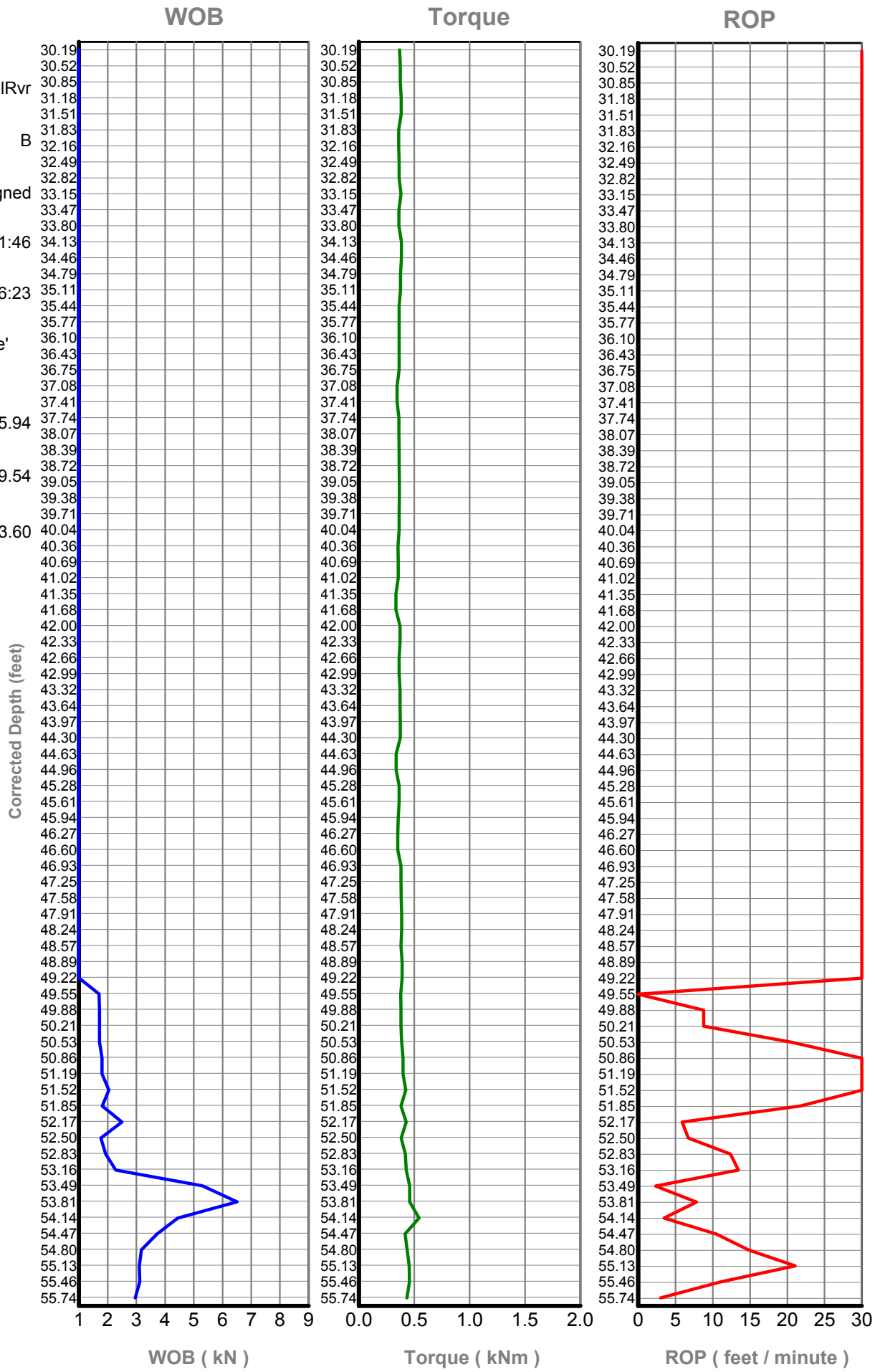
**End Date:**
4/29/2015 13:16:23

**Operator Note:**
'3.6 4.1 b Auto Complete'

**Northing:**
361,315.94

**Easting:**
244,889.54

**Tide (feet):**
3.60



## Hole: K219 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:00:32 | 34.12 | 30.12 | 1,222 | 0.24 | 0.37 | 66.8 |
| 4/29/2015 13:00:32 | 34.45 | 30.45 | 1,234 | 0.27 | 0.36 | 67.5 |
| 4/29/2015 13:00:32 | 34.78 | 30.78 | 1,234 | 0.27 | 0.36 | 67.5 |
| 4/29/2015 13:00:32 | 35.11 | 31.11 | 1,273 | 0.23 | 0.36 | 69.6 |
| 4/29/2015 13:00:33 | 35.43 | 31.43 | 1,268 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:33 | 35.76 | 31.76 | 1,268 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:33 | 36.09 | 32.09 | 1,267 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:34 | 36.42 | 32.42 | 1,267 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:34 | 36.75 | 32.75 | 1,273 | 0.26 | 0.37 | 69.6 |
| 4/29/2015 13:00:34 | 37.07 | 33.07 | 1,273 | 0.26 | 0.37 | 69.6 |
| 4/29/2015 13:00:34 | 37.40 | 33.40 | 1,262 | 0.26 | 0.37 | 69.0 |
| 4/29/2015 13:00:35 | 37.73 | 33.73 | 1,262 | 0.26 | 0.37 | 69.0 |
| 4/29/2015 13:00:35 | 38.06 | 34.06 | 1,256 | 0.26 | 0.35 | 68.7 |
| 4/29/2015 13:00:36 | 38.39 | 34.39 | 1,256 | 0.26 | 0.35 | 68.7 |
| 4/29/2015 13:00:36 | 38.71 | 34.71 | 1,262 | 0.26 | 0.37 | 69.0 |
| 4/29/2015 13:00:36 | 39.04 | 35.04 | 1,263 | 0.25 | 0.36 | 69.1 |
| 4/29/2015 13:00:37 | 39.37 | 35.37 | 1,263 | 0.25 | 0.36 | 69.1 |
| 4/29/2015 13:00:37 | 39.70 | 35.70 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 13:00:37 | 40.03 | 36.03 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 13:00:37 | 40.35 | 36.35 | 1,244 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 13:00:38 | 40.68 | 36.68 | 1,244 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 13:00:38 | 41.01 | 37.01 | 1,244 | 0.26 | 0.35 | 68.0 |
| 4/29/2015 13:00:38 | 41.34 | 37.34 | 1,244 | 0.26 | 0.35 | 68.0 |
| 4/29/2015 13:00:38 | 41.67 | 37.67 | 1,261 | 0.26 | 0.37 | 69.0 |
| 4/29/2015 13:00:39 | 41.99 | 37.99 | 1,261 | 0.26 | 0.37 | 69.0 |
| 4/29/2015 13:00:39 | 42.32 | 38.32 | 1,238 | 0.26 | 0.36 | 67.7 |
| 4/29/2015 13:00:39 | 42.65 | 38.65 | 1,238 | 0.26 | 0.36 | 67.7 |
| 4/29/2015 13:00:39 | 42.98 | 38.98 | 1,238 | 0.26 | 0.37 | 67.7 |
| 4/29/2015 13:00:40 | 43.31 | 39.31 | 1,259 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 13:00:40 | 43.64 | 39.64 | 1,259 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 13:00:40 | 43.96 | 39.96 | 1,249 | 0.26 | 0.37 | 68.3 |
| 4/29/2015 13:00:41 | 44.29 | 40.29 | 1,249 | 0.26 | 0.37 | 68.3 |
| 4/29/2015 13:00:41 | 44.62 | 40.62 | 1,267 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:41 | 44.95 | 40.95 | 1,267 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:41 | 45.28 | 41.28 | 1,242 | 0.26 | 0.36 | 67.9 |
| 4/29/2015 13:00:42 | 45.60 | 41.60 | 1,242 | 0.26 | 0.36 | 67.9 |
| 4/29/2015 13:00:42 | 45.93 | 41.93 | 1,242 | 0.26 | 0.34 | 67.9 |
| 4/29/2015 13:00:42 | 46.26 | 42.26 | 1,242 | 0.26 | 0.34 | 67.9 |
| 4/29/2015 13:00:42 | 46.59 | 42.59 | 1,273 | 0.26 | 0.36 | 69.6 |
| 4/29/2015 13:00:43 | 46.92 | 42.92 | 1,273 | 0.26 | 0.36 | 69.6 |
| 4/29/2015 13:00:43 | 47.24 | 43.24 | 1,267 | 0.38 | 0.40 | 69.3 |
| 4/29/2015 13:00:43 | 47.57 | 43.57 | 1,268 | 0.26 | 0.35 | 69.3 |
| 4/29/2015 13:00:44 | 47.90 | 43.90 | 1,268 | 0.26 | 0.35 | 69.3 |
| 4/29/2015 13:00:44 | 48.23 | 44.23 | 1,268 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:44 | 48.56 | 44.56 | 1,268 | 0.26 | 0.36 | 69.3 |
| 4/29/2015 13:00:44 | 48.88 | 44.88 | 1,261 | 0.30 | 0.36 | 68.9 |
| 4/29/2015 13:00:45 | 49.21 | 45.21 | 1,261 | 0.30 | 0.36 | 68.9 |
| 4/29/2015 13:00:45 | 49.54 | 45.54 | 1,275 | 0.28 | 0.36 | 69.7 |
| 4/29/2015 13:00:46 | 49.87 | 45.87 | 1,275 | 0.28 | 0.36 | 69.7 |
| 4/29/2015 13:00:45 | 50.20 | 46.20 | 1,251 | 0.27 | 0.37 | 68.4 |
| 4/29/2015 13:00:46 | 50.53 | 46.53 | 1,219 | 0.19 | 0.40 | 66.6 |
| 4/29/2015 13:00:47 | 50.85 | 46.85 | 1,219 | 0.19 | 0.40 | 66.6 |
| 4/29/2015 13:00:47 | 51.18 | 47.18 | 1,160 | 0.27 | 0.41 | 63.5 |
| 4/29/2015 13:00:47 | 51.51 | 47.51 | 1,062 | 0.26 | 0.42 | 58.1 |
| 4/29/2015 13:00:59 | 51.84 | 47.84 | 100 | 1.68 | 0.37 | 5.5 |
| 4/29/2015 13:01:00 | 52.17 | 48.17 | 100 | 1.68 | 0.37 | 5.5 |
| 4/29/2015 13:01:00 | 52.49 | 48.49 | 315 | 1.77 | 0.39 | 17.2 |
| 4/29/2015 13:01:00 | 52.82 | 48.82 | 515 | 1.80 | 0.38 | 28.1 |
| 4/29/2015 13:01:01 | 53.15 | 49.15 | 515 | 1.80 | 0.38 | 28.1 |
| 4/29/2015 13:01:01 | 53.48 | 49.48 | 723 | 1.84 | 0.39 | 39.6 |
| 4/29/2015 13:01:01 | 53.81 | 49.81 | 912 | 1.95 | 0.39 | 49.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:01:02 | 54.13 | 50.13 | 969 | 1.72 | 0.38 | 53.0 |
| 4/29/2015 | 13:01:02 | 54.46 | 50.46 | 969 | 1.72 | 0.38 | 53.0 |
| 4/29/2015 | 13:01:02 | 54.79 | 50.79 | 957 | 1.84 | 0.38 | 52.4 |
| 4/29/2015 | 13:01:03 | 55.12 | 51.12 | 931 | 1.71 | 0.38 | 50.9 |
| 4/29/2015 | 13:01:03 | 55.45 | 51.45 | 931 | 1.71 | 0.38 | 50.9 |
| 4/29/2015 | 13:01:03 | 55.77 | 51.77 | 931 | 2.07 | 0.41 | 50.9 |
| 4/29/2015 | 13:01:04 | 56.10 | 52.10 | 901 | 1.93 | 0.40 | 49.3 |
| 4/29/2015 | 13:01:04 | 56.43 | 52.43 | 863 | 2.10 | 0.39 | 47.2 |
| 4/29/2015 | 13:01:05 | 56.76 | 52.76 | 883 | 3.38 | 0.46 | 48.3 |
| 4/29/2015 | 13:01:07 | 57.09 | 53.09 | 599 | 5.00 | 0.48 | 32.8 |
| 4/29/2015 | 13:01:11 | 57.41 | 53.41 | 86 | 4.11 | 0.46 | 4.7 |
| 4/29/2015 | 13:01:14 | 57.74 | 53.74 | 98 | 4.74 | 0.49 | 5.3 |
| 4/29/2015 | 13:01:17 | 58.07 | 54.07 | 81 | 4.43 | 0.41 | 4.4 |
| 4/29/2015 | 13:01:19 | 58.40 | 54.40 | 150 | 2.14 | 0.45 | 8.2 |
| 4/29/2015 | 13:01:21 | 58.73 | 54.73 | 171 | 3.26 | 0.48 | 9.3 |
| 4/29/2015 | 13:01:24 | 59.06 | 55.06 | 99 | 3.86 | 0.42 | 5.4 |
| 4/29/2015 | 13:01:25 | 59.33 | 55.33 | 147 | 3.12 | 0.35 | 8.0 |

## K219 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:58:28

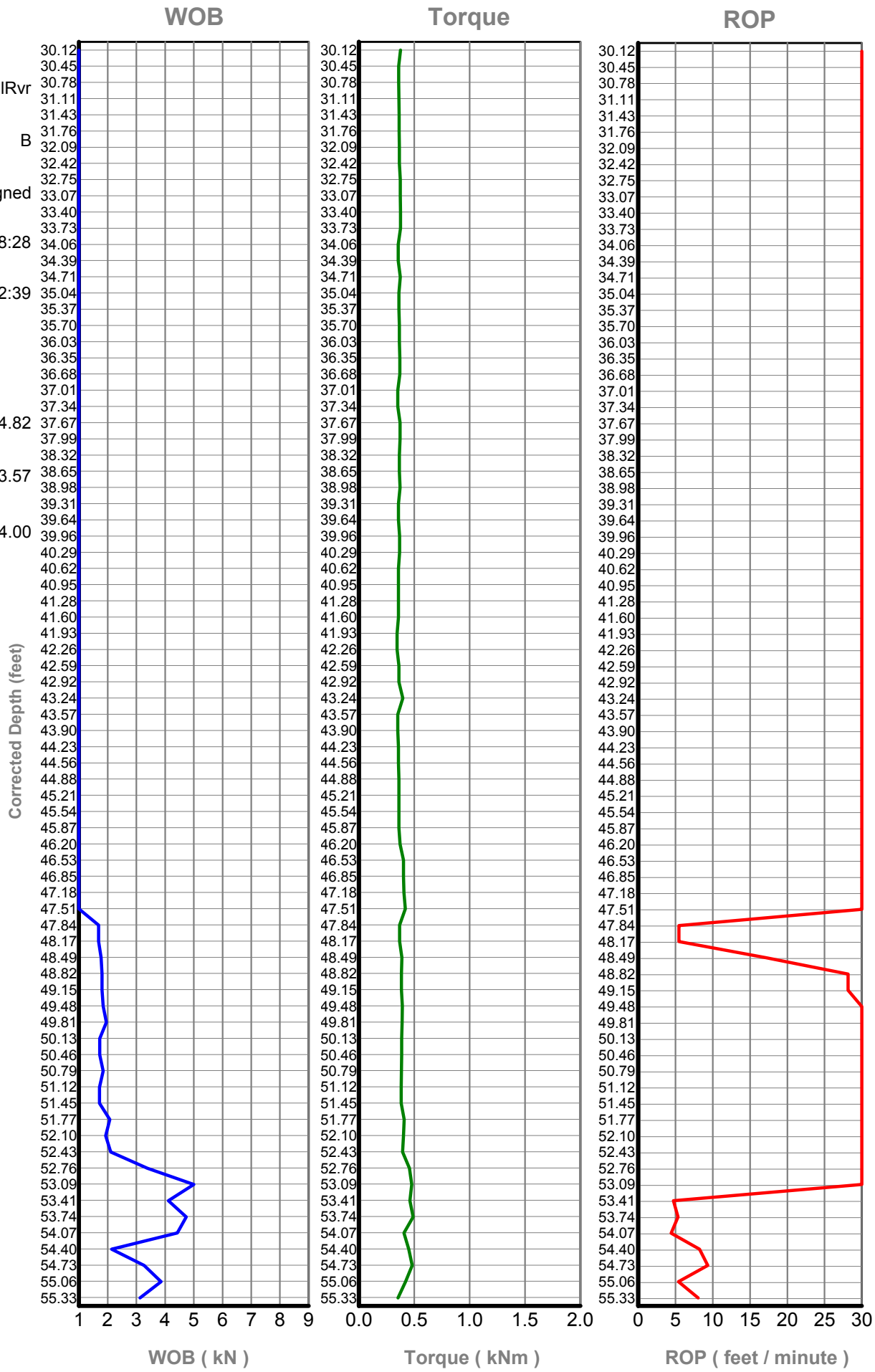
**End Date:**
4/29/2015 13:02:39

**Operator Note:**
'4 4.3 b Auto Complete'

**Northing:**
361,364.82

**Easting:**
244,933.57

**Tide (feet):**
4.00



## Hole: K22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:37:33 | 34.45 | 30.05 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:34 | 34.78 | 30.38 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:34 | 35.11 | 30.71 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 13:37:34 | 35.43 | 31.03 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 13:37:35 | 35.76 | 31.36 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 13:37:35 | 36.09 | 31.69 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 13:37:35 | 36.42 | 32.02 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:36 | 36.75 | 32.35 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:36 | 37.07 | 32.67 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:37 | 37.40 | 33.00 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:37 | 37.73 | 33.33 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:37 | 38.06 | 33.66 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 13:37:38 | 38.39 | 33.99 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 13:37:38 | 38.71 | 34.31 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 13:37:38 | 39.04 | 34.64 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 13:37:39 | 39.37 | 34.97 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 13:37:39 | 39.70 | 35.30 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 13:37:39 | 40.03 | 35.63 | 1,036 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 13:37:40 | 40.35 | 35.95 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 13:37:40 | 40.68 | 36.28 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 13:37:40 | 41.01 | 36.61 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 13:37:41 | 41.34 | 36.94 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 13:37:41 | 41.67 | 37.27 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 13:37:41 | 41.99 | 37.59 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 13:37:42 | 42.32 | 37.92 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 13:37:42 | 42.65 | 38.25 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 13:37:42 | 42.98 | 38.58 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 13:37:43 | 43.31 | 38.91 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 13:37:43 | 43.64 | 39.24 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 13:37:43 | 43.96 | 39.56 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 13:37:44 | 44.29 | 39.89 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 13:37:44 | 44.62 | 40.22 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:37:44 | 44.95 | 40.55 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 13:37:45 | 45.28 | 40.88 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 13:37:45 | 45.60 | 41.20 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 13:37:45 | 45.93 | 41.53 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:37:46 | 46.26 | 41.86 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:37:46 | 46.59 | 42.19 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:37:46 | 46.92 | 42.52 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:37:46 | 47.24 | 42.84 | 1,089 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:37:47 | 47.57 | 43.17 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 13:37:47 | 47.90 | 43.50 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 13:37:47 | 48.23 | 43.83 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:37:48 | 48.56 | 44.16 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:37:49 | 48.88 | 44.48 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:37:49 | 49.21 | 44.81 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:37:49 | 49.54 | 45.14 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 13:37:50 | 49.87 | 45.47 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 13:37:50 | 50.20 | 45.80 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 13:37:50 | 50.53 | 46.13 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 13:37:50 | 50.85 | 46.45 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 13:37:51 | 51.18 | 46.78 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 13:37:51 | 51.51 | 47.11 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 13:38:09 | 51.84 | 47.44 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 13:38:09 | 52.17 | 47.77 | 103 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 13:38:10 | 52.49 | 48.09 | 349 | 1.14 | 0.29 | 19.1 |
| 4/30/2015 13:38:12 | 52.82 | 48.42 | 488 | 1.14 | 0.29 | 26.7 |
| 4/30/2015 13:38:15 | 53.15 | 48.75 | 125 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 13:38:17 | 53.48 | 49.08 | 143 | 1.14 | 0.29 | 7.8 |
| 4/30/2015 13:38:20 | 53.81 | 49.41 | 136 | 1.14 | 0.29 | 7.5 |
| 4/30/2015 13:39:54 | 54.13 | 49.73 | 76 | 1.14 | 0.29 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:41:45 | 54.46 | 50.06 | 51 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 | 13:41:46 | 54.79 | 50.39 | 215 | 1.14 | 0.29 | 11.8 |
| 4/30/2015 | 13:41:55 | 55.12 | 50.72 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 | 13:42:38 | 55.45 | 51.05 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 13:42:40 | 55.77 | 51.37 | 174 | 1.14 | 0.29 | 9.5 |
| 4/30/2015 | 13:42:50 | 56.10 | 51.70 | 41 | 1.14 | 0.29 | 2.3 |
| 4/30/2015 | 13:42:54 | 56.43 | 52.03 | 86 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 | 13:44:08 | 56.76 | 52.36 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 13:44:53 | 57.09 | 52.69 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 | 13:45:00 | 57.41 | 53.01 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 | 13:45:05 | 57.74 | 53.34 | 70 | 1.14 | 0.29 | 3.8 |
| 4/30/2015 | 13:45:09 | 58.07 | 53.67 | 102 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 | 13:45:32 | 58.40 | 54.00 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 | 13:45:34 | 58.73 | 54.33 | 159 | 1.14 | 0.29 | 8.7 |
| 4/30/2015 | 13:45:45 | 59.06 | 54.66 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 | 13:46:05 | 59.38 | 54.98 | 6 | 1.14 | 0.29 | 0.3 |
| 4/30/2015 | 13:46:18 | 59.71 | 55.31 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 | 13:46:21 | 59.83 | 55.43 | 41 | 1.14 | 0.29 | 2.2 |

## K22 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:36:26

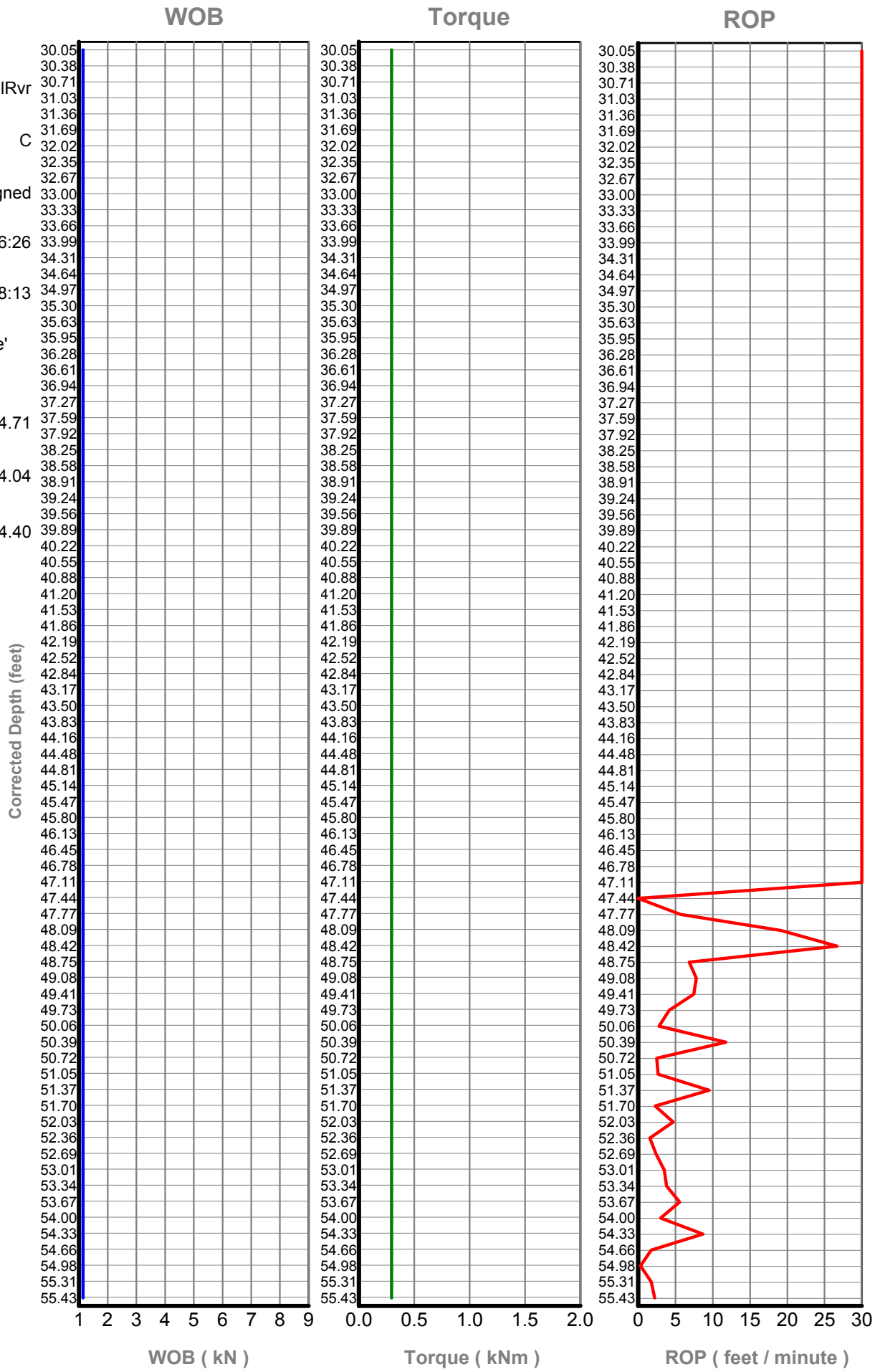
**End Date:**
4/30/2015 13:48:13

**Operator Note:**
'4.4 4.8 c Auto Complete'

**Northing:**
361,774.71

**Easting:**
244,364.04

**Tide (feet):**
4.40



## Hole: K220 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:43:45 | 34.45 | 30.25 | 1,220 | 0.27 | 0.37 | 66.7 |
| 4/29/2015 12:43:46 | 34.78 | 30.58 | 1,230 | 0.25 | 0.38 | 67.3 |
| 4/29/2015 12:43:46 | 35.11 | 30.91 | 1,230 | 0.25 | 0.38 | 67.3 |
| 4/29/2015 12:43:46 | 35.43 | 31.23 | 1,219 | 0.26 | 0.37 | 66.6 |
| 4/29/2015 12:43:47 | 35.76 | 31.56 | 1,232 | 0.26 | 0.35 | 67.4 |
| 4/29/2015 12:43:47 | 36.09 | 31.89 | 1,232 | 0.26 | 0.35 | 67.4 |
| 4/29/2015 12:43:47 | 36.42 | 32.22 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 12:43:48 | 36.75 | 32.55 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 12:43:48 | 37.07 | 32.87 | 1,229 | 0.27 | 0.38 | 67.2 |
| 4/29/2015 12:43:48 | 37.40 | 33.20 | 1,229 | 0.27 | 0.38 | 67.2 |
| 4/29/2015 12:43:48 | 37.73 | 33.53 | 1,227 | 0.26 | 0.35 | 67.1 |
| 4/29/2015 12:43:49 | 38.06 | 33.86 | 1,227 | 0.26 | 0.35 | 67.1 |
| 4/29/2015 12:43:49 | 38.39 | 34.19 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 12:43:49 | 38.71 | 34.51 | 1,231 | 0.27 | 0.37 | 67.3 |
| 4/29/2015 12:43:50 | 39.04 | 34.84 | 1,231 | 0.27 | 0.37 | 67.3 |
| 4/29/2015 12:43:50 | 39.37 | 35.17 | 1,240 | 0.26 | 0.36 | 67.8 |
| 4/29/2015 12:43:50 | 39.70 | 35.50 | 1,240 | 0.26 | 0.36 | 67.8 |
| 4/29/2015 12:43:50 | 40.03 | 35.83 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 12:43:51 | 40.35 | 36.15 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 12:43:51 | 40.68 | 36.48 | 1,232 | 0.26 | 0.37 | 67.4 |
| 4/29/2015 12:43:51 | 41.01 | 36.81 | 1,232 | 0.26 | 0.37 | 67.4 |
| 4/29/2015 12:43:51 | 41.34 | 37.14 | 1,232 | 0.26 | 0.35 | 67.4 |
| 4/29/2015 12:43:52 | 41.67 | 37.47 | 1,232 | 0.26 | 0.35 | 67.4 |
| 4/29/2015 12:43:52 | 41.99 | 37.79 | 1,239 | 0.26 | 0.36 | 67.8 |
| 4/29/2015 12:43:52 | 42.32 | 38.12 | 1,241 | 0.26 | 0.37 | 67.9 |
| 4/29/2015 12:43:53 | 42.65 | 38.45 | 1,241 | 0.26 | 0.37 | 67.9 |
| 4/29/2015 12:43:53 | 42.98 | 38.78 | 1,245 | 0.26 | 0.36 | 68.1 |
| 4/29/2015 12:43:53 | 43.31 | 39.11 | 1,245 | 0.26 | 0.36 | 68.1 |
| 4/29/2015 12:43:53 | 43.64 | 39.44 | 1,247 | 0.26 | 0.37 | 68.2 |
| 4/29/2015 12:43:54 | 43.96 | 39.76 | 1,247 | 0.26 | 0.37 | 68.2 |
| 4/29/2015 12:43:54 | 44.29 | 40.09 | 1,269 | 0.25 | 0.37 | 69.4 |
| 4/29/2015 12:43:54 | 44.62 | 40.42 | 1,269 | 0.25 | 0.37 | 69.4 |
| 4/29/2015 12:43:54 | 44.95 | 40.75 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 12:43:55 | 45.28 | 41.08 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 12:43:55 | 45.60 | 41.40 | 1,271 | 0.26 | 0.36 | 69.5 |
| 4/29/2015 12:43:55 | 45.93 | 41.73 | 1,260 | 0.26 | 0.37 | 68.9 |
| 4/29/2015 12:43:56 | 46.26 | 42.06 | 1,260 | 0.26 | 0.37 | 68.9 |
| 4/29/2015 12:43:56 | 46.59 | 42.39 | 1,265 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 12:43:57 | 46.92 | 42.72 | 1,265 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 12:43:57 | 47.24 | 43.04 | 1,253 | 0.26 | 0.35 | 68.5 |
| 4/29/2015 12:43:57 | 47.57 | 43.37 | 1,253 | 0.26 | 0.35 | 68.5 |
| 4/29/2015 12:43:57 | 47.90 | 43.70 | 1,269 | 0.26 | 0.37 | 69.4 |
| 4/29/2015 12:43:58 | 48.23 | 44.03 | 1,269 | 0.26 | 0.37 | 69.4 |
| 4/29/2015 12:43:58 | 48.56 | 44.36 | 1,253 | 0.26 | 0.37 | 68.5 |
| 4/29/2015 12:43:58 | 48.88 | 44.68 | 1,253 | 0.26 | 0.37 | 68.5 |
| 4/29/2015 12:43:58 | 49.21 | 45.01 | 1,261 | 0.25 | 0.36 | 68.9 |
| 4/29/2015 12:43:59 | 49.54 | 45.34 | 1,256 | 0.26 | 0.37 | 68.7 |
| 4/29/2015 12:43:59 | 49.87 | 45.67 | 1,256 | 0.26 | 0.37 | 68.7 |
| 4/29/2015 12:43:59 | 50.20 | 46.00 | 1,271 | 0.26 | 0.37 | 69.5 |
| 4/29/2015 12:44:00 | 50.53 | 46.33 | 1,271 | 0.26 | 0.37 | 69.5 |
| 4/29/2015 12:44:00 | 50.85 | 46.65 | 1,255 | 0.25 | 0.38 | 68.6 |
| 4/29/2015 12:44:00 | 51.18 | 46.98 | 1,255 | 0.25 | 0.38 | 68.6 |
| 4/29/2015 12:44:09 | 51.51 | 47.31 | 37 | 1.85 | 0.37 | 2.0 |
| 4/29/2015 12:44:10 | 51.84 | 47.64 | 37 | 1.85 | 0.37 | 2.0 |
| 4/29/2015 12:44:10 | 52.17 | 47.97 | 251 | 1.89 | 0.38 | 13.7 |
| 4/29/2015 12:44:10 | 52.49 | 48.29 | 458 | 1.93 | 0.39 | 25.0 |
| 4/29/2015 12:44:11 | 52.82 | 48.62 | 458 | 1.93 | 0.39 | 25.0 |
| 4/29/2015 12:44:11 | 53.15 | 48.95 | 652 | 1.81 | 0.37 | 35.6 |
| 4/29/2015 12:44:11 | 53.48 | 49.28 | 860 | 2.48 | 0.43 | 47.0 |
| 4/29/2015 12:44:12 | 53.81 | 49.61 | 935 | 3.03 | 0.44 | 51.2 |
| 4/29/2015 12:44:13 | 54.13 | 49.93 | 616 | 2.54 | 0.41 | 33.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:44:14 | 54.46 | 50.26 | 527 | 2.35 | 0.41 | 28.8 |
| 4/29/2015 | 12:44:14 | 54.79 | 50.59 | 463 | 2.40 | 0.42 | 25.3 |
| 4/29/2015 | 12:44:15 | 55.12 | 50.92 | 463 | 3.27 | 0.45 | 25.3 |
| 4/29/2015 | 12:44:16 | 55.45 | 51.25 | 484 | 3.09 | 0.43 | 26.5 |
| 4/29/2015 | 12:44:18 | 55.77 | 51.57 | 443 | 3.81 | 0.45 | 24.2 |
| 4/29/2015 | 12:44:50 | 56.10 | 51.90 | 0 | 4.02 | 0.46 | 0.0 |
| 4/29/2015 | 12:44:52 | 56.43 | 52.23 | 157 | 3.30 | 0.40 | 8.6 |
| 4/29/2015 | 12:45:02 | 56.76 | 52.56 | 60 | 3.35 | 0.44 | 3.3 |
| 4/29/2015 | 12:45:03 | 57.09 | 52.89 | 182 | 3.41 | 0.44 | 9.9 |
| 4/29/2015 | 12:45:08 | 57.41 | 53.21 | 71 | 4.02 | 0.44 | 3.9 |
| 4/29/2015 | 12:45:08 | 57.74 | 53.54 | 154 | 2.81 | 0.43 | 8.4 |
| 4/29/2015 | 12:45:10 | 58.07 | 53.87 | 299 | 4.29 | 0.43 | 16.4 |
| 4/29/2015 | 12:45:16 | 58.40 | 54.20 | 55 | 2.61 | 0.42 | 3.0 |
| 4/29/2015 | 12:45:16 | 58.73 | 54.53 | 141 | 3.44 | 0.43 | 7.7 |
| 4/29/2015 | 12:45:17 | 59.06 | 54.86 | 251 | 2.84 | 0.42 | 13.7 |
| 4/29/2015 | 12:45:18 | 59.38 | 55.18 | 374 | 2.63 | 0.42 | 20.5 |
| 4/29/2015 | 12:45:18 | 59.71 | 55.51 | 470 | 2.49 | 0.46 | 25.7 |
| 4/29/2015 | 12:45:19 | 59.81 | 55.61 | 499 | 3.39 | 0.48 | 27.3 |

## K220 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:42:03

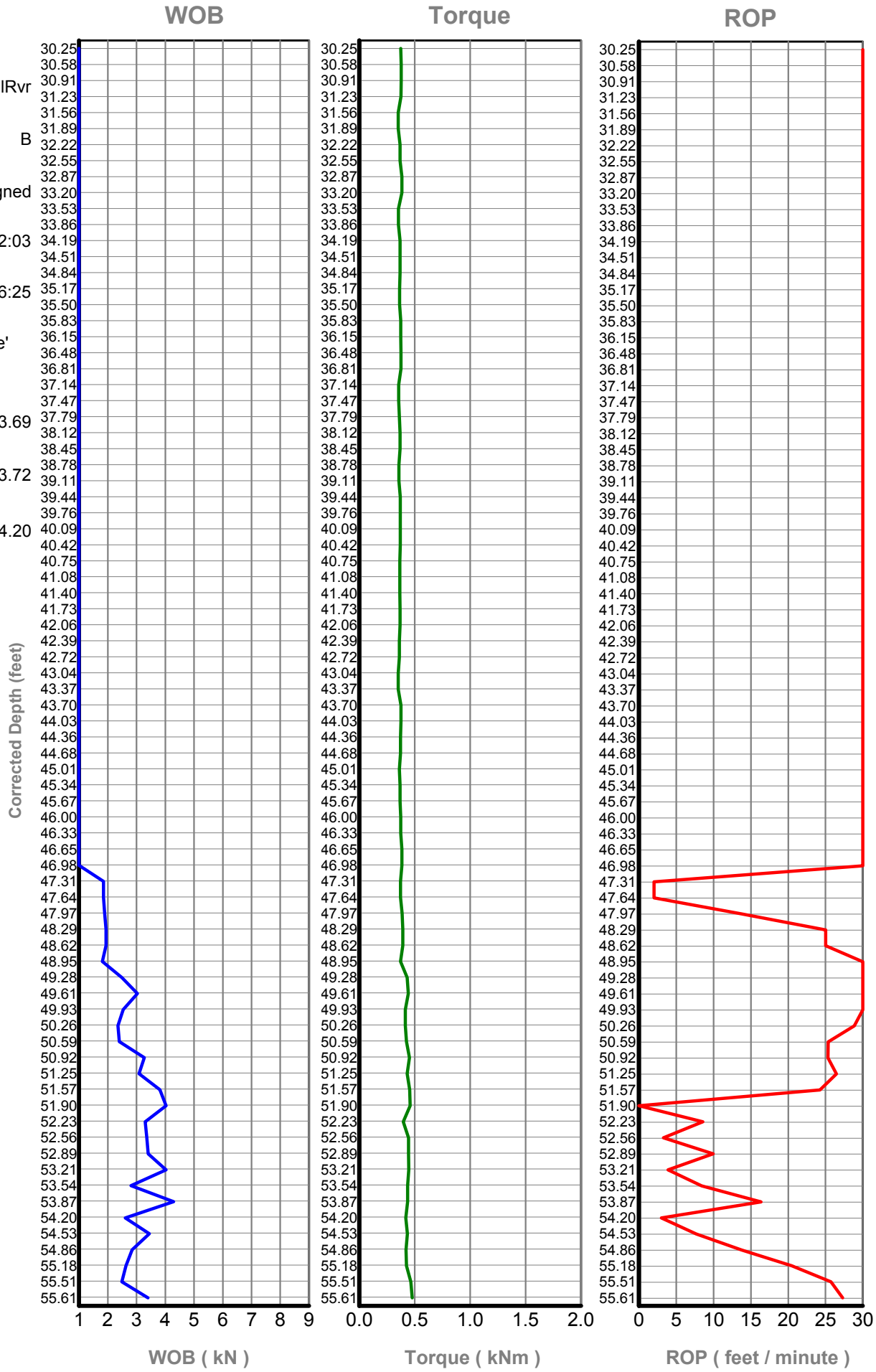
**End Date:**
4/29/2015 12:46:25

**Operator Note:**
'4.2 4.6 b Auto Complete'

**Northing:**
361,423.69

**Easting:**
244,993.72

**Tide (feet):**
4.20



## Hole: K221 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:54:35 | 35.11 | 30.01 | 1,239 | 0.37 | 0.39 | 67.7 |
| 4/29/2015 11:54:35 | 35.43 | 30.33 | 1,239 | 0.37 | 0.39 | 67.7 |
| 4/29/2015 11:54:35 | 35.76 | 30.66 | 1,231 | 0.37 | 0.41 | 67.3 |
| 4/29/2015 11:54:36 | 36.09 | 30.99 | 1,231 | 0.37 | 0.41 | 67.3 |
| 4/29/2015 11:54:36 | 36.42 | 31.32 | 1,223 | 0.37 | 0.40 | 66.9 |
| 4/29/2015 11:54:36 | 36.75 | 31.65 | 1,220 | 0.36 | 0.39 | 66.7 |
| 4/29/2015 11:54:37 | 37.07 | 31.97 | 1,220 | 0.36 | 0.39 | 66.7 |
| 4/29/2015 11:54:37 | 37.40 | 32.30 | 1,227 | 0.37 | 0.41 | 67.1 |
| 4/29/2015 11:54:38 | 37.73 | 32.63 | 1,227 | 0.37 | 0.41 | 67.1 |
| 4/29/2015 11:54:38 | 38.06 | 32.96 | 1,220 | 0.36 | 0.39 | 66.7 |
| 4/29/2015 11:54:38 | 38.39 | 33.29 | 1,220 | 0.36 | 0.39 | 66.7 |
| 4/29/2015 11:54:38 | 38.71 | 33.61 | 1,217 | 0.36 | 0.39 | 66.6 |
| 4/29/2015 11:54:39 | 39.04 | 33.94 | 1,216 | 0.36 | 0.40 | 66.5 |
| 4/29/2015 11:54:39 | 39.37 | 34.27 | 1,216 | 0.36 | 0.40 | 66.5 |
| 4/29/2015 11:54:39 | 39.70 | 34.60 | 1,227 | 0.36 | 0.41 | 67.1 |
| 4/29/2015 11:54:40 | 40.03 | 34.93 | 1,227 | 0.36 | 0.41 | 67.1 |
| 4/29/2015 11:54:40 | 40.35 | 35.25 | 1,206 | 0.38 | 0.40 | 66.0 |
| 4/29/2015 11:54:40 | 40.68 | 35.58 | 1,206 | 0.38 | 0.40 | 66.0 |
| 4/29/2015 11:54:40 | 41.01 | 35.91 | 1,206 | 0.36 | 0.40 | 66.0 |
| 4/29/2015 11:54:41 | 41.34 | 36.24 | 1,206 | 0.36 | 0.40 | 66.0 |
| 4/29/2015 11:54:41 | 41.67 | 36.57 | 1,221 | 0.35 | 0.39 | 66.8 |
| 4/29/2015 11:54:41 | 41.99 | 36.89 | 1,237 | 0.36 | 0.40 | 67.6 |
| 4/29/2015 11:54:42 | 42.32 | 37.22 | 1,237 | 0.36 | 0.40 | 67.6 |
| 4/29/2015 11:54:42 | 42.65 | 37.55 | 1,234 | 0.35 | 0.41 | 67.5 |
| 4/29/2015 11:54:42 | 42.98 | 37.88 | 1,234 | 0.35 | 0.41 | 67.5 |
| 4/29/2015 11:54:42 | 43.31 | 38.21 | 1,236 | 0.36 | 0.40 | 67.6 |
| 4/29/2015 11:54:43 | 43.64 | 38.54 | 1,236 | 0.36 | 0.40 | 67.6 |
| 4/29/2015 11:54:43 | 43.96 | 38.86 | 1,239 | 0.35 | 0.41 | 67.7 |
| 4/29/2015 11:54:43 | 44.29 | 39.19 | 1,239 | 0.35 | 0.41 | 67.7 |
| 4/29/2015 11:54:43 | 44.62 | 39.52 | 1,242 | 0.35 | 0.39 | 67.9 |
| 4/29/2015 11:54:44 | 44.95 | 39.85 | 1,236 | 0.29 | 0.36 | 67.6 |
| 4/29/2015 11:54:44 | 45.28 | 40.18 | 1,236 | 0.29 | 0.36 | 67.6 |
| 4/29/2015 11:54:44 | 45.60 | 40.50 | 1,239 | 0.29 | 0.37 | 67.7 |
| 4/29/2015 11:54:45 | 45.93 | 40.83 | 1,239 | 0.29 | 0.37 | 67.7 |
| 4/29/2015 11:54:45 | 46.26 | 41.16 | 1,235 | 0.32 | 0.37 | 67.5 |
| 4/29/2015 11:54:45 | 46.59 | 41.49 | 1,235 | 0.32 | 0.37 | 67.5 |
| 4/29/2015 11:54:45 | 46.92 | 41.82 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 11:54:46 | 47.24 | 42.14 | 1,249 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 11:54:46 | 47.57 | 42.47 | 1,231 | 0.26 | 0.36 | 67.3 |
| 4/29/2015 11:54:46 | 47.90 | 42.80 | 1,237 | 0.26 | 0.37 | 67.7 |
| 4/29/2015 11:54:47 | 48.23 | 43.13 | 1,237 | 0.26 | 0.37 | 67.7 |
| 4/29/2015 11:54:47 | 48.56 | 43.46 | 1,234 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 11:54:47 | 48.88 | 43.78 | 1,234 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 11:54:47 | 49.21 | 44.11 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/29/2015 11:54:48 | 49.54 | 44.44 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/29/2015 11:54:48 | 49.87 | 44.77 | 1,235 | 0.29 | 0.36 | 67.6 |
| 4/29/2015 11:54:49 | 50.20 | 45.10 | 1,235 | 0.29 | 0.36 | 67.6 |
| 4/29/2015 11:54:49 | 50.53 | 45.43 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 11:54:49 | 50.85 | 45.75 | 1,243 | 0.26 | 0.37 | 68.0 |
| 4/29/2015 11:54:49 | 51.18 | 46.08 | 1,230 | 0.26 | 0.36 | 67.3 |
| 4/29/2015 11:54:50 | 51.51 | 46.41 | 1,246 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 11:54:50 | 51.84 | 46.74 | 1,246 | 0.27 | 0.36 | 68.1 |
| 4/29/2015 11:54:50 | 52.17 | 47.07 | 1,243 | 0.26 | 0.36 | 68.0 |
| 4/29/2015 11:54:51 | 52.49 | 47.39 | 1,243 | 0.26 | 0.36 | 68.0 |
| 4/29/2015 11:54:51 | 52.82 | 47.72 | 1,251 | 0.27 | 0.37 | 68.4 |
| 4/29/2015 11:54:51 | 53.15 | 48.05 | 1,251 | 0.27 | 0.37 | 68.4 |
| 4/29/2015 11:54:51 | 53.48 | 48.38 | 1,246 | 0.25 | 0.43 | 68.1 |
| 4/29/2015 11:54:59 | 53.81 | 48.71 | 0 | 2.89 | 0.40 | 0.0 |
| 4/29/2015 11:55:00 | 54.13 | 49.03 | 165 | 3.09 | 0.42 | 9.0 |
| 4/29/2015 11:55:01 | 54.46 | 49.36 | 294 | 2.14 | 0.36 | 16.1 |
| 4/29/2015 11:55:02 | 54.79 | 49.69 | 477 | 3.64 | 0.46 | 26.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:55:03 | 55.12 | 50.02 | 329 | 3.17 | 0.44 | 18.0 |
| 4/29/2015 | 11:55:05 | 55.45 | 50.35 | 211 | 3.39 | 0.45 | 11.5 |
| 4/29/2015 | 11:55:07 | 55.77 | 50.67 | 171 | 3.54 | 0.47 | 9.3 |
| 4/29/2015 | 11:55:11 | 56.10 | 51.00 | 75 | 4.65 | 0.43 | 4.1 |
| 4/29/2015 | 11:55:16 | 56.43 | 51.33 | 0 | 4.23 | 0.41 | 0.0 |
| 4/29/2015 | 11:55:19 | 56.76 | 51.66 | 63 | 2.75 | 0.42 | 3.5 |
| 4/29/2015 | 11:55:19 | 57.09 | 51.99 | 163 | 2.78 | 0.43 | 8.9 |
| 4/29/2015 | 11:55:23 | 57.41 | 52.31 | 122 | 2.63 | 0.43 | 6.7 |
| 4/29/2015 | 11:55:24 | 57.74 | 52.64 | 93 | 2.10 | 0.41 | 5.1 |
| 4/29/2015 | 11:55:25 | 58.07 | 52.97 | 213 | 4.04 | 0.45 | 11.7 |
| 4/29/2015 | 11:55:25 | 58.40 | 53.30 | 302 | 2.19 | 0.43 | 16.5 |
| 4/29/2015 | 11:55:26 | 58.73 | 53.63 | 399 | 1.79 | 0.40 | 21.8 |
| 4/29/2015 | 11:55:27 | 59.06 | 53.96 | 399 | 1.79 | 0.40 | 21.8 |
| 4/29/2015 | 11:55:27 | 59.38 | 54.28 | 516 | 2.33 | 0.41 | 28.2 |
| 4/29/2015 | 11:55:27 | 59.71 | 54.61 | 618 | 3.13 | 0.42 | 33.8 |
| 4/29/2015 | 11:55:29 | 60.04 | 54.94 | 547 | 2.05 | 0.43 | 29.9 |
| 4/29/2015 | 11:55:32 | 60.37 | 55.27 | 121 | 3.20 | 0.41 | 6.6 |
| 4/29/2015 | 11:55:32 | 60.70 | 55.60 | 221 | 4.27 | 0.43 | 12.1 |
| 4/29/2015 | 11:55:32 | 60.83 | 55.73 | 221 | 4.27 | 0.43 | 12.1 |

## K221 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:52:59

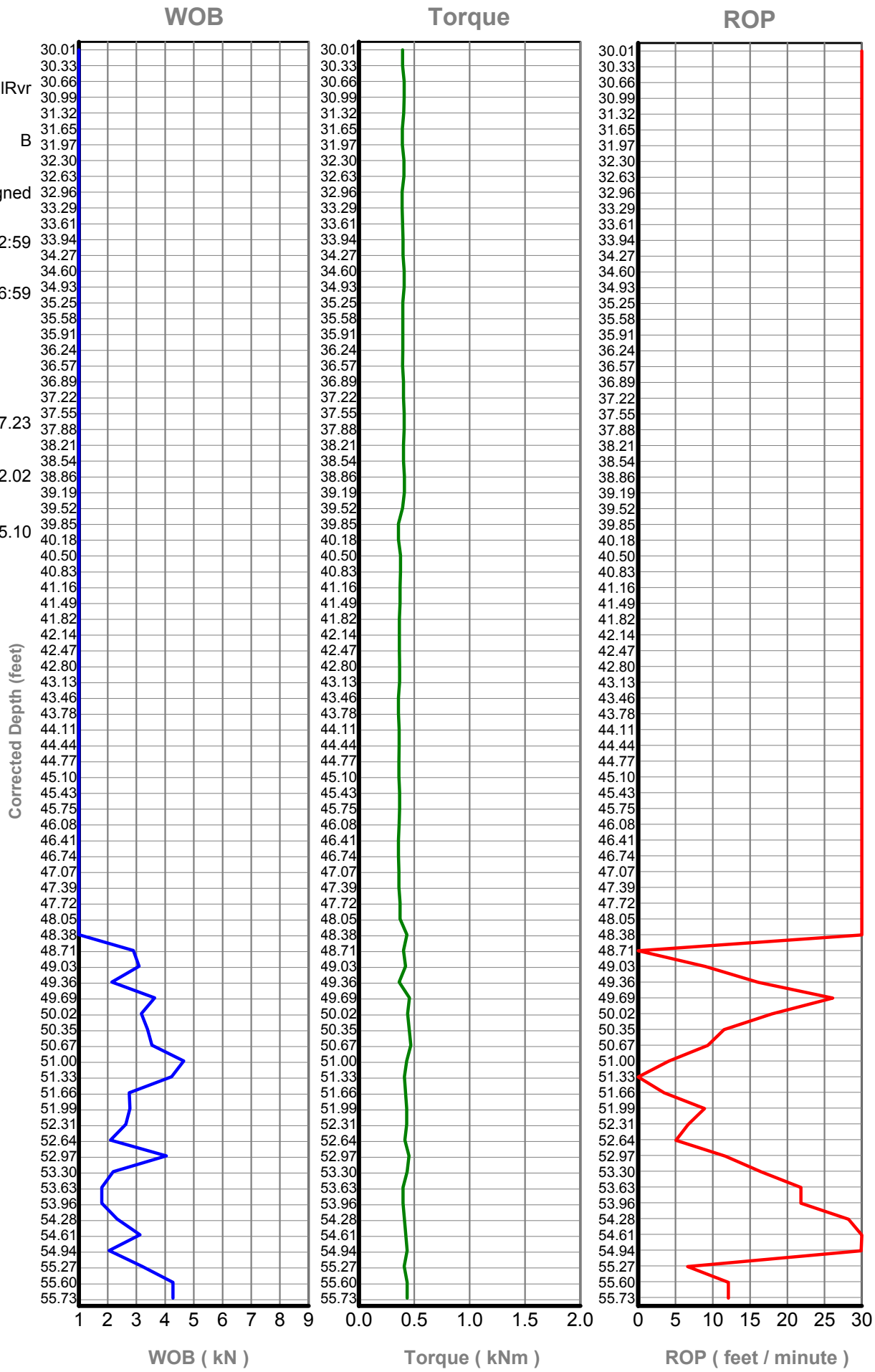
**End Date:**
4/29/2015 11:56:59

**Operator Note:**
'5.1 5.5 b No rock'

**Northing:**
361,677.23

**Easting:**
245,302.02

**Tide (feet):**
5.10



## Hole: K222 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:09:45 | 35.11 | 30.21 | 1,226 | 0.29 | 0.36 | 67.0 |
| 4/29/2015 12:09:46 | 35.43 | 30.53 | 1,226 | 0.29 | 0.36 | 67.0 |
| 4/29/2015 12:09:46 | 35.76 | 30.86 | 1,229 | 0.22 | 0.37 | 67.2 |
| 4/29/2015 12:09:46 | 36.09 | 31.19 | 1,246 | 0.26 | 0.38 | 68.1 |
| 4/29/2015 12:09:47 | 36.42 | 31.52 | 1,246 | 0.26 | 0.38 | 68.1 |
| 4/29/2015 12:09:47 | 36.75 | 31.85 | 1,235 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 12:09:47 | 37.07 | 32.17 | 1,235 | 0.26 | 0.36 | 67.5 |
| 4/29/2015 12:09:47 | 37.40 | 32.50 | 1,227 | 0.26 | 0.38 | 67.1 |
| 4/29/2015 12:09:48 | 37.73 | 32.83 | 1,227 | 0.26 | 0.38 | 67.1 |
| 4/29/2015 12:09:48 | 38.06 | 33.16 | 1,223 | 0.26 | 0.38 | 66.9 |
| 4/29/2015 12:09:48 | 38.39 | 33.49 | 1,223 | 0.26 | 0.38 | 66.9 |
| 4/29/2015 12:09:48 | 38.71 | 33.81 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/29/2015 12:09:49 | 39.04 | 34.14 | 1,233 | 0.28 | 0.38 | 67.4 |
| 4/29/2015 12:09:49 | 39.37 | 34.47 | 1,233 | 0.28 | 0.38 | 67.4 |
| 4/29/2015 12:09:49 | 39.70 | 34.80 | 1,232 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 12:09:50 | 40.03 | 35.13 | 1,232 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 12:09:50 | 40.35 | 35.45 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 12:09:50 | 40.68 | 35.78 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 12:09:50 | 41.01 | 36.11 | 1,218 | 0.26 | 0.37 | 66.6 |
| 4/29/2015 12:09:51 | 41.34 | 36.44 | 1,218 | 0.26 | 0.37 | 66.6 |
| 4/29/2015 12:09:51 | 41.67 | 36.77 | 1,237 | 0.26 | 0.37 | 67.7 |
| 4/29/2015 12:09:51 | 41.99 | 37.09 | 1,227 | 0.26 | 0.37 | 67.1 |
| 4/29/2015 12:09:52 | 42.32 | 37.42 | 1,227 | 0.26 | 0.37 | 67.1 |
| 4/29/2015 12:09:52 | 42.65 | 37.75 | 1,202 | 0.26 | 0.36 | 65.7 |
| 4/29/2015 12:09:52 | 42.98 | 38.08 | 1,202 | 0.26 | 0.36 | 65.7 |
| 4/29/2015 12:09:52 | 43.31 | 38.41 | 1,202 | 0.27 | 0.37 | 65.7 |
| 4/29/2015 12:09:53 | 43.64 | 38.74 | 1,202 | 0.27 | 0.37 | 65.7 |
| 4/29/2015 12:09:53 | 43.96 | 39.06 | 1,227 | 0.26 | 0.38 | 67.1 |
| 4/29/2015 12:09:53 | 44.29 | 39.39 | 1,227 | 0.26 | 0.38 | 67.1 |
| 4/29/2015 12:09:53 | 44.62 | 39.72 | 1,230 | 0.27 | 0.37 | 67.2 |
| 4/29/2015 12:09:54 | 44.95 | 40.05 | 1,211 | 0.27 | 0.37 | 66.2 |
| 4/29/2015 12:09:55 | 45.28 | 40.38 | 1,211 | 0.27 | 0.37 | 66.2 |
| 4/29/2015 12:09:55 | 45.60 | 40.70 | 1,218 | 0.27 | 0.37 | 66.6 |
| 4/29/2015 12:09:55 | 45.93 | 41.03 | 1,218 | 0.27 | 0.37 | 66.6 |
| 4/29/2015 12:09:55 | 46.26 | 41.36 | 1,243 | 0.26 | 0.38 | 68.0 |
| 4/29/2015 12:09:56 | 46.59 | 41.69 | 1,243 | 0.26 | 0.38 | 68.0 |
| 4/29/2015 12:09:56 | 46.92 | 42.02 | 1,226 | 0.27 | 0.36 | 67.0 |
| 4/29/2015 12:09:56 | 47.24 | 42.34 | 1,226 | 0.27 | 0.36 | 67.0 |
| 4/29/2015 12:09:56 | 47.57 | 42.67 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 12:09:57 | 47.90 | 43.00 | 1,228 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 12:09:57 | 48.23 | 43.33 | 1,228 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 12:09:57 | 48.56 | 43.66 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 12:09:58 | 48.88 | 43.98 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 12:09:58 | 49.21 | 44.31 | 1,213 | 0.26 | 0.37 | 66.3 |
| 4/29/2015 12:09:58 | 49.54 | 44.64 | 1,213 | 0.26 | 0.37 | 66.3 |
| 4/29/2015 12:09:58 | 49.87 | 44.97 | 1,224 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 12:09:59 | 50.20 | 45.30 | 1,221 | 0.26 | 0.38 | 66.8 |
| 4/29/2015 12:09:59 | 50.53 | 45.63 | 1,221 | 0.26 | 0.38 | 66.8 |
| 4/29/2015 12:09:59 | 50.85 | 45.95 | 1,221 | 0.26 | 0.37 | 66.8 |
| 4/29/2015 12:10:00 | 51.18 | 46.28 | 1,221 | 0.26 | 0.37 | 66.8 |
| 4/29/2015 12:10:10 | 51.51 | 46.61 | 0 | 1.69 | 0.36 | 0.0 |
| 4/29/2015 12:10:11 | 51.84 | 46.94 | 109 | 3.60 | 0.42 | 5.9 |
| 4/29/2015 12:10:11 | 52.17 | 47.27 | 277 | 3.45 | 0.42 | 15.1 |
| 4/29/2015 12:10:12 | 52.49 | 47.59 | 409 | 2.03 | 0.40 | 22.4 |
| 4/29/2015 12:10:12 | 52.82 | 47.92 | 583 | 4.03 | 0.44 | 31.9 |
| 4/29/2015 12:10:13 | 53.15 | 48.25 | 689 | 1.91 | 0.42 | 37.7 |
| 4/29/2015 12:10:13 | 53.48 | 48.58 | 712 | 2.04 | 0.43 | 39.0 |
| 4/29/2015 12:10:19 | 53.81 | 48.91 | 104 | 3.16 | 0.46 | 5.7 |
| 4/29/2015 12:10:24 | 54.13 | 49.23 | 48 | 5.10 | 0.43 | 2.6 |
| 4/29/2015 12:10:29 | 54.46 | 49.56 | 81 | 4.29 | 0.44 | 4.4 |
| 4/29/2015 12:10:31 | 54.79 | 49.89 | 75 | 2.76 | 0.42 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:10:32 | 55.12 | 50.22 | 201 | 2.38 | 0.41 | 11.0 |
| 4/29/2015 | 12:10:56 | 55.45 | 50.55 | 38 | 4.43 | 0.47 | 2.1 |
| 4/29/2015 | 12:10:58 | 55.77 | 50.87 | 132 | 2.48 | 0.42 | 7.2 |
| 4/29/2015 | 12:11:03 | 56.10 | 51.20 | 28 | 3.00 | 0.44 | 1.5 |
| 4/29/2015 | 12:11:05 | 56.43 | 51.53 | 163 | 2.54 | 0.42 | 8.9 |
| 4/29/2015 | 12:11:05 | 56.76 | 51.86 | 275 | 3.77 | 0.44 | 15.0 |
| 4/29/2015 | 12:11:06 | 57.09 | 52.19 | 358 | 2.38 | 0.42 | 19.6 |
| 4/29/2015 | 12:11:12 | 57.41 | 52.51 | 118 | 2.99 | 0.45 | 6.4 |
| 4/29/2015 | 12:11:18 | 57.74 | 52.84 | 65 | 3.90 | 0.46 | 3.5 |
| 4/29/2015 | 12:11:20 | 58.07 | 53.17 | 181 | 2.77 | 0.44 | 9.9 |
| 4/29/2015 | 12:11:27 | 58.40 | 53.50 | 46 | 3.92 | 0.44 | 2.5 |
| 4/29/2015 | 12:11:27 | 58.73 | 53.83 | 140 | 2.23 | 0.42 | 7.7 |
| 4/29/2015 | 12:11:28 | 59.06 | 54.16 | 278 | 2.02 | 0.42 | 15.2 |
| 4/29/2015 | 12:11:30 | 59.38 | 54.48 | 416 | 3.31 | 0.45 | 22.7 |
| 4/29/2015 | 12:11:31 | 59.71 | 54.81 | 147 | 2.91 | 0.42 | 8.0 |
| 4/29/2015 | 12:11:33 | 60.04 | 55.14 | 241 | 4.06 | 0.47 | 13.2 |
| 4/29/2015 | 12:11:34 | 60.23 | 55.33 | 124 | 3.52 | 0.46 | 6.8 |

## K222 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:07:56

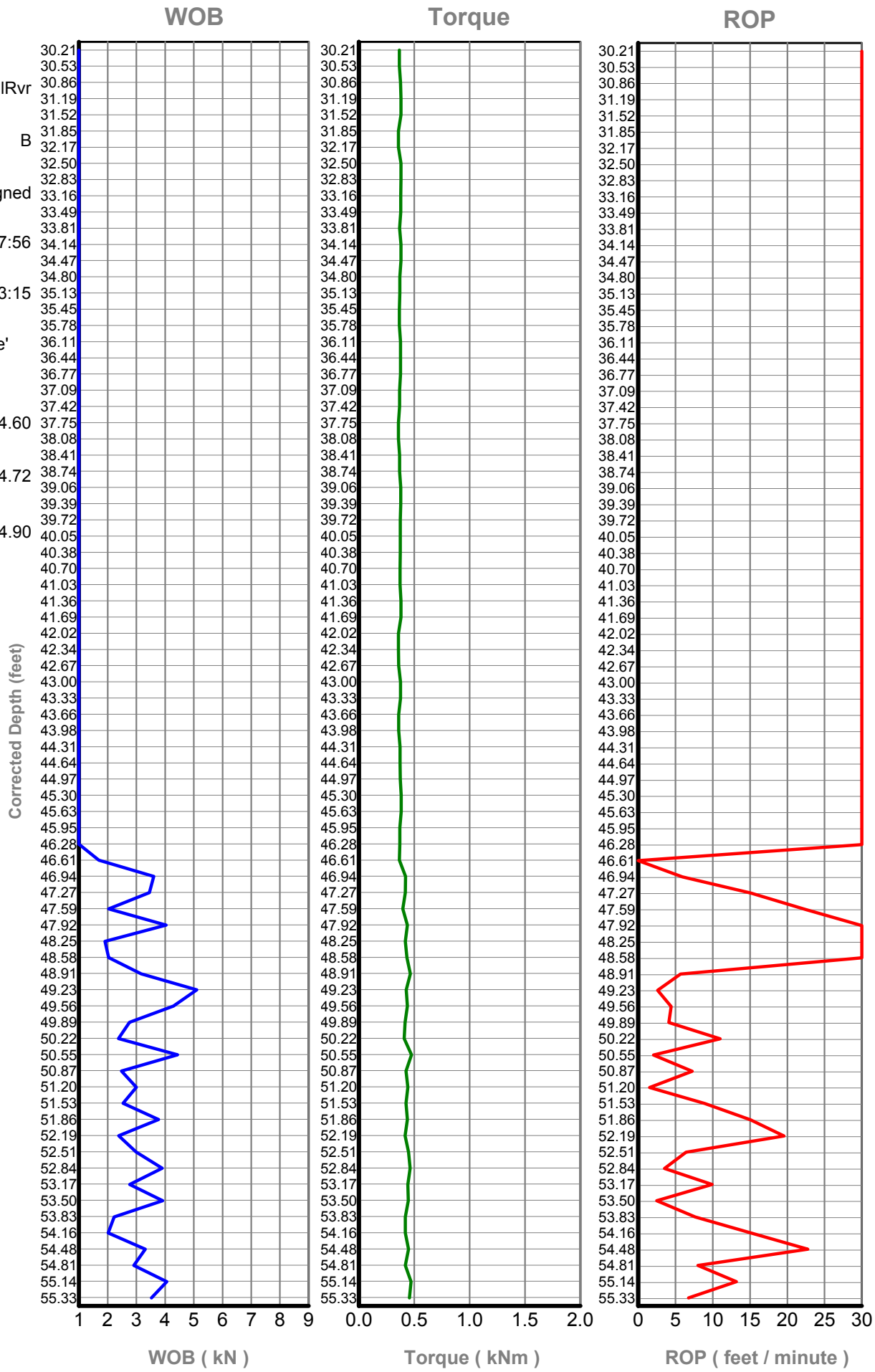
**End Date:**
4/29/2015 12:13:15

**Operator Note:**
'4.9 5.2 b Auto Complete'

**Northing:**
361,734.60

**Easting:**
245,354.72

**Tide (feet):**
4.90



## Hole: K223 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:11:06 | 36.42 | 30.02 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:07 | 36.75 | 30.35 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:07 | 37.07 | 30.67 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:07 | 37.40 | 31.00 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 10:11:08 | 37.73 | 31.33 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 10:11:08 | 38.06 | 31.66 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:08 | 38.39 | 31.99 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:09 | 38.71 | 32.31 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 10:11:09 | 39.04 | 32.64 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:11:09 | 39.37 | 32.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:11:10 | 39.70 | 33.30 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:11:10 | 40.03 | 33.63 | 1,021 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:10 | 40.35 | 33.95 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 10:11:11 | 40.68 | 34.28 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 10:11:11 | 41.01 | 34.61 | 1,021 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:11 | 41.34 | 34.94 | 1,021 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:12 | 41.67 | 35.27 | 1,021 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:12 | 41.99 | 35.59 | 1,027 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 10:11:12 | 42.32 | 35.92 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 10:11:13 | 42.65 | 36.25 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:11:13 | 42.98 | 36.58 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:11:13 | 43.31 | 36.91 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 10:11:14 | 43.64 | 37.24 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 10:11:15 | 43.96 | 37.56 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 10:11:14 | 44.29 | 37.89 | 1,003 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 10:11:15 | 44.62 | 38.22 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 10:11:16 | 44.95 | 38.55 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 10:11:16 | 45.28 | 38.88 | 1,003 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 10:11:16 | 45.60 | 39.20 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 10:11:17 | 45.93 | 39.53 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 10:11:17 | 46.26 | 39.86 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 10:11:17 | 46.59 | 40.19 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 10:11:18 | 46.92 | 40.52 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 10:11:18 | 47.24 | 40.84 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 10:11:18 | 47.57 | 41.17 | 998 | 1.14 | 0.29 | 54.6 |
| 4/30/2015 10:11:19 | 47.90 | 41.50 | 998 | 1.14 | 0.29 | 54.6 |
| 4/30/2015 10:11:19 | 48.23 | 41.83 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 10:11:19 | 48.56 | 42.16 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 10:11:20 | 48.88 | 42.48 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 10:11:20 | 49.21 | 42.81 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 10:11:20 | 49.54 | 43.14 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 10:11:21 | 49.87 | 43.47 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 10:11:21 | 50.20 | 43.80 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 10:11:21 | 50.53 | 44.13 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:11:22 | 50.85 | 44.45 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:11:22 | 51.18 | 44.78 | 1,031 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 10:11:22 | 51.51 | 45.11 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:23 | 51.84 | 45.44 | 1,023 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 10:11:23 | 52.17 | 45.77 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 10:11:23 | 52.49 | 46.09 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 10:11:24 | 52.82 | 46.42 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 10:11:24 | 53.15 | 46.75 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:11:24 | 53.48 | 47.08 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:11:25 | 53.81 | 47.41 | 968 | 1.14 | 0.29 | 52.9 |
| 4/30/2015 10:11:25 | 54.13 | 47.73 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 10:11:26 | 54.46 | 48.06 | 821 | 1.14 | 0.29 | 44.9 |
| 4/30/2015 10:11:55 | 54.79 | 48.39 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 10:11:56 | 55.12 | 48.72 | 40 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 10:11:58 | 55.45 | 49.05 | 189 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 10:11:58 | 55.77 | 49.37 | 307 | 1.14 | 0.29 | 16.8 |
| 4/30/2015 10:11:59 | 56.10 | 49.70 | 392 | 1.14 | 0.29 | 21.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:11:59 | 56.43 | 50.03 | 429 | 1.14 | 0.29 | 23.4 |
| 4/30/2015 | 10:12:00 | 56.76 | 50.36 | 557 | 1.14 | 0.29 | 30.5 |
| 4/30/2015 | 10:12:00 | 57.09 | 50.69 | 628 | 1.14 | 0.29 | 34.3 |
| 4/30/2015 | 10:12:01 | 57.41 | 51.01 | 634 | 1.14 | 0.29 | 34.7 |
| 4/30/2015 | 10:12:03 | 57.74 | 51.34 | 314 | 1.14 | 0.29 | 17.2 |
| 4/30/2015 | 10:12:04 | 58.07 | 51.67 | 285 | 1.14 | 0.29 | 15.6 |
| 4/30/2015 | 10:12:05 | 58.40 | 52.00 | 345 | 1.14 | 0.29 | 18.8 |
| 4/30/2015 | 10:12:06 | 58.73 | 52.33 | 425 | 1.14 | 0.29 | 23.2 |
| 4/30/2015 | 10:12:06 | 59.06 | 52.66 | 405 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 | 10:12:08 | 59.38 | 52.98 | 274 | 1.14 | 0.29 | 15.0 |
| 4/30/2015 | 10:12:09 | 59.71 | 53.31 | 308 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 | 10:12:09 | 60.04 | 53.64 | 338 | 1.14 | 0.29 | 18.5 |
| 4/30/2015 | 10:12:10 | 60.37 | 53.97 | 373 | 1.14 | 0.29 | 20.4 |
| 4/30/2015 | 10:12:11 | 60.70 | 54.30 | 570 | 1.14 | 0.29 | 31.2 |
| 4/30/2015 | 10:12:12 | 61.02 | 54.62 | 306 | 1.14 | 0.29 | 16.7 |
| 4/30/2015 | 10:12:13 | 61.35 | 54.95 | 213 | 1.14 | 0.29 | 11.6 |
| 4/30/2015 | 10:12:15 | 61.65 | 55.25 | 309 | 1.14 | 0.29 | 16.9 |

## K223 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:09:45

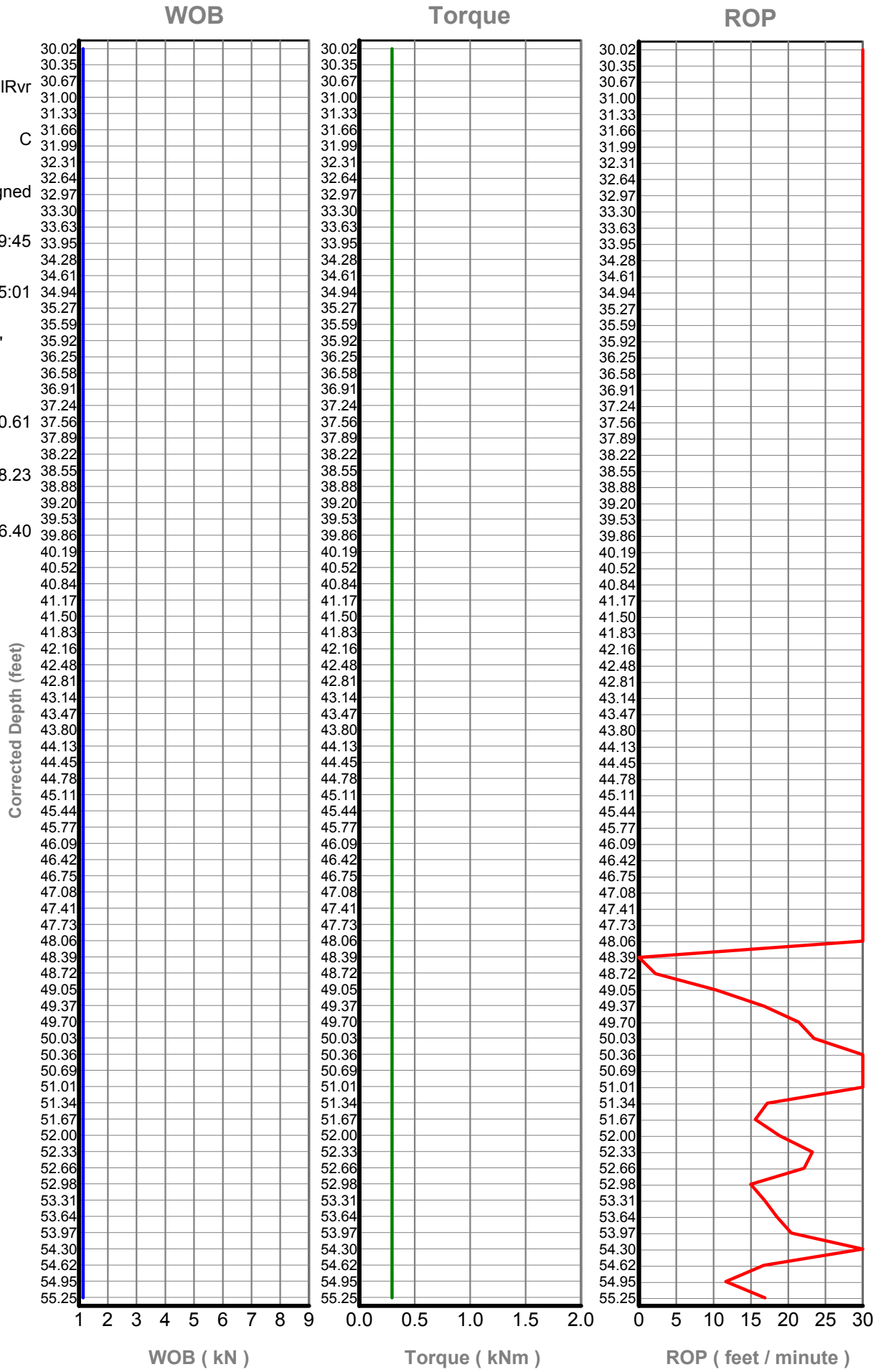
**End Date:**
4/30/2015 10:15:01

**Operator Note:**
'6.4 6.3c Auto Complete'

**Northing:**
360,970.61

**Easting:**
244,558.23

**Tide (feet):**
6.40



## Hole: K224 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:23:54 | 36.75 | 30.25 | 994 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 10:23:54 | 37.07 | 30.57 | 982 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 10:23:55 | 37.40 | 30.90 | 982 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 10:23:55 | 37.73 | 31.23 | 998 | 1.14 | 0.29 | 54.6 |
| 4/30/2015 10:23:55 | 38.06 | 31.56 | 998 | 1.14 | 0.29 | 54.6 |
| 4/30/2015 10:23:56 | 38.39 | 31.89 | 998 | 1.14 | 0.29 | 54.6 |
| 4/30/2015 10:23:56 | 38.71 | 32.21 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 10:23:56 | 39.04 | 32.54 | 1,014 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:23:57 | 39.37 | 32.87 | 1,014 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 10:23:57 | 39.70 | 33.20 | 1,011 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 10:23:57 | 40.03 | 33.53 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 10:23:58 | 40.35 | 33.85 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 10:23:58 | 40.68 | 34.18 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:23:58 | 41.01 | 34.51 | 992 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 10:23:59 | 41.34 | 34.84 | 992 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 10:23:59 | 41.67 | 35.17 | 992 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 10:23:59 | 41.99 | 35.49 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:00 | 42.32 | 35.82 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:00 | 42.65 | 36.15 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:00 | 42.98 | 36.48 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 10:24:01 | 43.31 | 36.81 | 1,003 | 1.14 | 0.29 | 54.8 |
| 4/30/2015 10:24:02 | 43.64 | 37.14 | 1,003 | 1.14 | 0.29 | 54.8 |
| 4/30/2015 10:24:01 | 43.96 | 37.46 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:02 | 44.29 | 37.79 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:03 | 44.62 | 38.12 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 10:24:03 | 44.95 | 38.45 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:24:03 | 45.28 | 38.78 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:24:03 | 45.60 | 39.10 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 10:24:04 | 45.93 | 39.43 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 10:24:04 | 46.26 | 39.76 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 10:24:04 | 46.59 | 40.09 | 1,038 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 10:24:05 | 46.92 | 40.42 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 10:24:05 | 47.24 | 40.74 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 10:24:05 | 47.57 | 41.07 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:24:06 | 47.90 | 41.40 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 10:24:06 | 48.23 | 41.73 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 10:24:06 | 48.56 | 42.06 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 10:24:07 | 48.88 | 42.38 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:24:07 | 49.21 | 42.71 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:24:07 | 49.54 | 43.04 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:24:08 | 49.87 | 43.37 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:24:08 | 50.20 | 43.70 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:24:08 | 50.53 | 44.03 | 1,056 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 10:24:09 | 50.85 | 44.35 | 1,056 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 10:24:09 | 51.18 | 44.68 | 1,056 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 10:24:09 | 51.51 | 45.01 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 10:24:10 | 51.84 | 45.34 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 10:24:10 | 52.17 | 45.67 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:24:10 | 52.49 | 45.99 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:24:11 | 52.82 | 46.32 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:24:11 | 53.15 | 46.65 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:24:11 | 53.48 | 46.98 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:24:12 | 53.81 | 47.31 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:24:22 | 54.13 | 47.63 | 97 | 1.14 | 0.29 | 5.3 |
| 4/30/2015 10:24:22 | 54.46 | 47.96 | 251 | 1.14 | 0.29 | 13.7 |
| 4/30/2015 10:24:23 | 54.79 | 48.29 | 251 | 1.14 | 0.29 | 13.7 |
| 4/30/2015 10:24:23 | 55.12 | 48.62 | 422 | 1.14 | 0.29 | 23.1 |
| 4/30/2015 10:24:23 | 55.45 | 48.95 | 589 | 1.14 | 0.29 | 32.2 |
| 4/30/2015 10:24:24 | 55.77 | 49.27 | 755 | 1.14 | 0.29 | 41.3 |
| 4/30/2015 10:24:28 | 56.10 | 49.60 | 6 | 1.14 | 0.29 | 0.3 |
| 4/30/2015 10:24:29 | 56.43 | 49.93 | 160 | 1.14 | 0.29 | 8.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:24:29 | 56.76 | 50.26 | 246 | 1.14 | 0.29 | 13.4 |
| 4/30/2015 | 10:24:30 | 57.09 | 50.59 | 388 | 1.14 | 0.29 | 21.2 |
| 4/30/2015 | 10:24:35 | 57.41 | 50.91 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 10:24:39 | 57.74 | 51.24 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 10:24:36 | 58.07 | 51.57 | 236 | 1.14 | 0.29 | 12.9 |
| 4/30/2015 | 10:24:37 | 58.40 | 51.90 | 404 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 | 10:24:37 | 58.73 | 52.23 | 498 | 1.14 | 0.29 | 27.2 |
| 4/30/2015 | 10:24:39 | 59.06 | 52.56 | 404 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 | 10:24:41 | 59.38 | 52.88 | 264 | 1.14 | 0.29 | 14.4 |
| 4/30/2015 | 10:24:43 | 59.71 | 53.21 | 67 | 1.14 | 0.29 | 3.6 |
| 4/30/2015 | 10:24:44 | 60.04 | 53.54 | 176 | 1.14 | 0.29 | 9.6 |
| 4/30/2015 | 10:24:45 | 60.37 | 53.87 | 300 | 1.14 | 0.29 | 16.4 |
| 4/30/2015 | 10:24:52 | 60.70 | 54.20 | 88 | 1.14 | 0.29 | 4.8 |
| 4/30/2015 | 10:24:52 | 61.02 | 54.52 | 197 | 1.14 | 0.29 | 10.8 |
| 4/30/2015 | 10:24:53 | 61.35 | 54.85 | 403 | 1.14 | 0.29 | 22.0 |

## K224 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:22:46

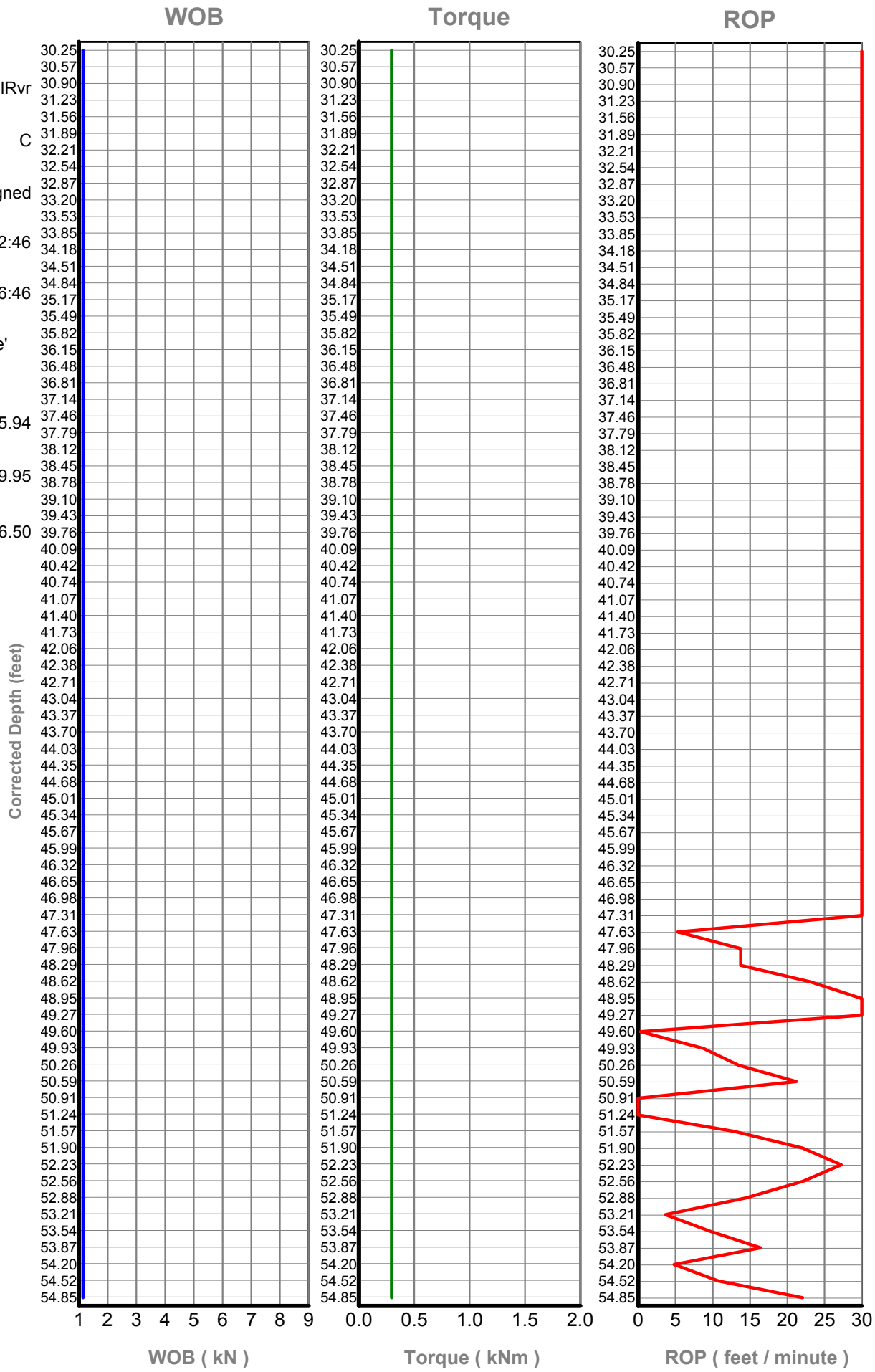
**End Date:**
4/30/2015 10:26:46

**Operator Note:**
'6.5 6.4 c Auto Complete'

**Northing:**
361,015.94

**Easting:**
244,619.95

**Tide (feet):**
6.50



## Hole: K225 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 10:36:52 | 36.75 | 30.25 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 10:36:52 | 37.07 | 30.57 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 10:36:52 | 37.40 | 30.90 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 10:36:53 | 37.73 | 31.23 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:36:53 | 38.06 | 31.56 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:36:53 | 38.39 | 31.89 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 10:36:54 | 38.71 | 32.21 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 10:36:54 | 39.04 | 32.54 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 10:36:54 | 39.37 | 32.87 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:36:55 | 39.70 | 33.20 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:36:55 | 40.03 | 33.53 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:36:55 | 40.35 | 33.85 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 10:36:56 | 40.68 | 34.18 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 10:36:56 | 41.01 | 34.51 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:36:56 | 41.34 | 34.84 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 10:36:57 | 41.67 | 35.17 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 10:36:57 | 41.99 | 35.49 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:36:57 | 42.32 | 35.82 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:36:58 | 42.65 | 36.15 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:36:58 | 42.98 | 36.48 | 1,071 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:36:58 | 43.31 | 36.81 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 10:36:59 | 43.64 | 37.14 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 10:36:59 | 43.96 | 37.46 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:36:59 | 44.29 | 37.79 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:37:00 | 44.62 | 38.12 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:37:00 | 44.95 | 38.45 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 10:37:00 | 45.28 | 38.78 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 10:37:01 | 45.60 | 39.10 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 10:37:01 | 45.93 | 39.43 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 10:37:01 | 46.26 | 39.76 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 10:37:02 | 46.59 | 40.09 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:37:02 | 46.92 | 40.42 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:03 | 47.24 | 40.74 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:03 | 47.57 | 41.07 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 10:37:03 | 47.90 | 41.40 | 1,071 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:37:04 | 48.23 | 41.73 | 1,071 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:37:04 | 48.56 | 42.06 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 10:37:04 | 48.88 | 42.38 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:05 | 49.21 | 42.71 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:05 | 49.54 | 43.04 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:37:05 | 49.87 | 43.37 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:37:06 | 50.20 | 43.70 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 10:37:06 | 50.53 | 44.03 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 10:37:06 | 50.85 | 44.35 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 10:37:06 | 51.18 | 44.68 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 10:37:07 | 51.51 | 45.01 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:07 | 51.84 | 45.34 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:07 | 52.17 | 45.67 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 10:37:08 | 52.49 | 45.99 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 10:37:08 | 52.82 | 46.32 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 10:37:08 | 53.15 | 46.65 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 10:37:09 | 53.48 | 46.98 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:37:09 | 53.81 | 47.31 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:37:09 | 54.13 | 47.63 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:37:10 | 54.46 | 47.96 | 1,046 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 10:37:19 | 54.79 | 48.29 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 10:37:19 | 55.12 | 48.62 | 91 | 1.14 | 0.29 | 5.0 |
| 4/30/2015 10:37:20 | 55.45 | 48.95 | 265 | 1.14 | 0.29 | 14.5 |
| 4/30/2015 10:37:20 | 55.77 | 49.27 | 434 | 1.14 | 0.29 | 23.7 |
| 4/30/2015 10:37:21 | 56.10 | 49.60 | 434 | 1.14 | 0.29 | 23.7 |
| 4/30/2015 10:37:21 | 56.43 | 49.93 | 582 | 1.14 | 0.29 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 10:37:21 | 56.76 | 50.26 | 749 | 1.14 | 0.29 | 40.9 |
| 4/30/2015 | 10:37:22 | 57.09 | 50.59 | 812 | 1.14 | 0.29 | 44.4 |
| 4/30/2015 | 10:37:22 | 57.41 | 50.91 | 787 | 1.14 | 0.29 | 43.0 |
| 4/30/2015 | 10:37:23 | 57.74 | 51.24 | 787 | 1.14 | 0.29 | 43.0 |
| 4/30/2015 | 10:37:23 | 58.07 | 51.57 | 743 | 1.14 | 0.29 | 40.7 |
| 4/30/2015 | 10:37:27 | 58.40 | 51.90 | 126 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 | 10:37:28 | 58.73 | 52.23 | 170 | 1.14 | 0.29 | 9.3 |
| 4/30/2015 | 10:37:28 | 59.06 | 52.56 | 256 | 1.14 | 0.29 | 14.0 |
| 4/30/2015 | 10:37:29 | 59.38 | 52.88 | 423 | 1.14 | 0.29 | 23.2 |
| 4/30/2015 | 10:37:30 | 59.71 | 53.21 | 453 | 1.14 | 0.29 | 24.8 |
| 4/30/2015 | 10:37:30 | 60.04 | 53.54 | 461 | 1.14 | 0.29 | 25.2 |
| 4/30/2015 | 10:37:31 | 60.37 | 53.87 | 491 | 1.14 | 0.29 | 26.9 |
| 4/30/2015 | 10:37:33 | 60.70 | 54.20 | 306 | 1.14 | 0.29 | 16.7 |
| 4/30/2015 | 10:37:33 | 61.02 | 54.52 | 265 | 1.14 | 0.29 | 14.5 |
| 4/30/2015 | 10:37:35 | 61.35 | 54.85 | 178 | 1.14 | 0.29 | 9.8 |
| 4/30/2015 | 10:37:35 | 61.47 | 54.97 | 290 | 1.14 | 0.29 | 15.8 |

## K225 - Summary

**Pattern Number:**
AreaK_Lane15-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 10:35:45

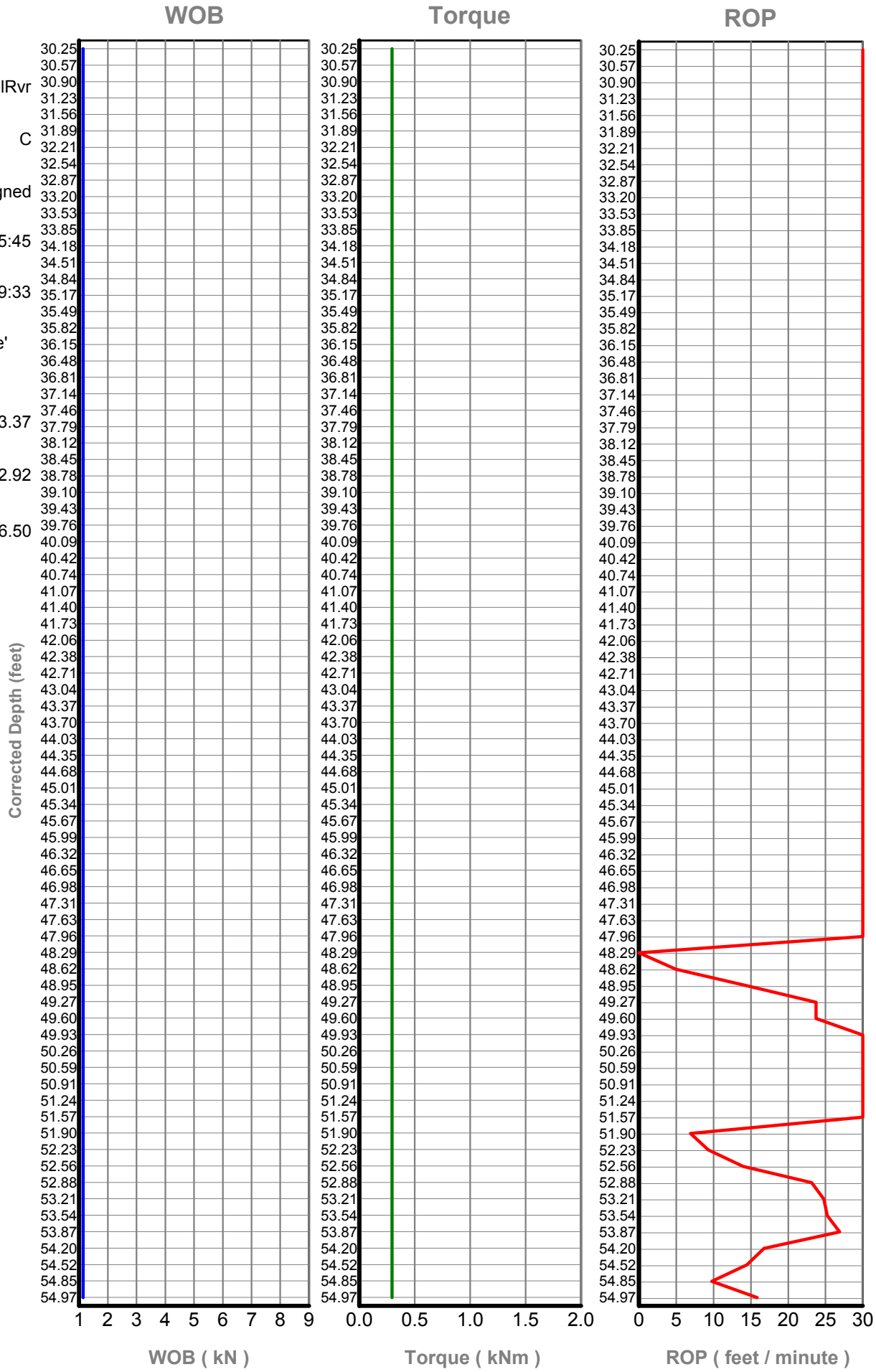
**End Date:**
4/30/2015 10:39:33

**Operator Note:**
'6.5 6.5 c Auto Complete'

**Northing:**
361,063.37

**Easting:**
244,682.92

**Tide (feet):**
6.50



## Hole: K226 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:08:37 | 36.75 | 30.25 | 887 | 1.18 | 0.40 | 48.5 |
| 4/30/2015 11:08:38 | 37.07 | 30.57 | 887 | 1.18 | 0.40 | 48.5 |
| 4/30/2015 11:08:38 | 37.40 | 30.90 | 887 | 1.19 | 0.41 | 48.5 |
| 4/30/2015 11:08:38 | 37.73 | 31.23 | 898 | 1.18 | 0.42 | 49.1 |
| 4/30/2015 11:08:39 | 38.06 | 31.56 | 890 | 1.21 | 0.41 | 48.7 |
| 4/30/2015 11:08:39 | 38.39 | 31.89 | 893 | 1.19 | 0.44 | 48.8 |
| 4/30/2015 11:08:40 | 38.71 | 32.21 | 893 | 1.19 | 0.44 | 48.8 |
| 4/30/2015 11:08:40 | 39.04 | 32.54 | 891 | 1.19 | 0.41 | 48.7 |
| 4/30/2015 11:08:40 | 39.37 | 32.87 | 896 | 1.17 | 0.41 | 49.0 |
| 4/30/2015 11:08:41 | 39.70 | 33.20 | 893 | 1.19 | 0.41 | 48.8 |
| 4/30/2015 11:08:41 | 40.03 | 33.53 | 893 | 1.19 | 0.41 | 48.8 |
| 4/30/2015 11:08:41 | 40.35 | 33.85 | 893 | 1.18 | 0.44 | 48.8 |
| 4/30/2015 11:08:42 | 40.68 | 34.18 | 890 | 1.19 | 0.42 | 48.7 |
| 4/30/2015 11:08:42 | 41.01 | 34.51 | 893 | 1.17 | 0.40 | 48.8 |
| 4/30/2015 11:08:43 | 41.34 | 34.84 | 893 | 1.17 | 0.40 | 48.8 |
| 4/30/2015 11:08:43 | 41.67 | 35.17 | 885 | 1.19 | 0.42 | 48.4 |
| 4/30/2015 11:08:43 | 41.99 | 35.49 | 885 | 1.17 | 0.45 | 48.4 |
| 4/30/2015 11:08:44 | 42.32 | 35.82 | 879 | 1.19 | 0.42 | 48.1 |
| 4/30/2015 11:08:44 | 42.65 | 36.15 | 888 | 1.16 | 0.15 | 48.6 |
| 4/30/2015 11:08:45 | 42.98 | 36.48 | 888 | 1.16 | 0.15 | 48.6 |
| 4/30/2015 11:08:45 | 43.31 | 36.81 | 882 | 1.20 | 0.16 | 48.3 |
| 4/30/2015 11:08:45 | 43.64 | 37.14 | 882 | 1.19 | 0.16 | 48.3 |
| 4/30/2015 11:08:46 | 43.96 | 37.46 | 872 | 1.18 | 0.16 | 47.7 |
| 4/30/2015 11:08:46 | 44.29 | 37.79 | 872 | 1.18 | 0.16 | 47.7 |
| 4/30/2015 11:08:46 | 44.62 | 38.12 | 872 | 1.20 | 0.16 | 47.7 |
| 4/30/2015 11:08:47 | 44.95 | 38.45 | 887 | 1.17 | 0.16 | 48.5 |
| 4/30/2015 11:08:48 | 45.28 | 38.78 | 884 | 1.18 | 0.16 | 48.3 |
| 4/30/2015 11:08:48 | 45.60 | 39.10 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 11:08:49 | 45.93 | 39.43 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 11:08:49 | 46.26 | 39.76 | 884 | 1.19 | 0.16 | 48.3 |
| 4/30/2015 11:08:49 | 46.59 | 40.09 | 892 | 1.17 | 0.16 | 48.8 |
| 4/30/2015 11:08:50 | 46.92 | 40.42 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:50 | 47.24 | 40.74 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:50 | 47.57 | 41.07 | 877 | 1.17 | 0.16 | 47.9 |
| 4/30/2015 11:08:51 | 47.90 | 41.40 | 890 | 1.18 | 0.16 | 48.7 |
| 4/30/2015 11:08:51 | 48.23 | 41.73 | 885 | 1.19 | 0.16 | 48.4 |
| 4/30/2015 11:08:52 | 48.56 | 42.06 | 885 | 1.17 | 0.16 | 48.4 |
| 4/30/2015 11:08:52 | 48.88 | 42.38 | 885 | 1.17 | 0.16 | 48.4 |
| 4/30/2015 11:08:52 | 49.21 | 42.71 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:53 | 49.54 | 43.04 | 885 | 1.19 | 0.16 | 48.4 |
| 4/30/2015 11:08:53 | 49.87 | 43.37 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:54 | 50.20 | 43.70 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:54 | 50.53 | 44.03 | 879 | 1.18 | 0.12 | 48.1 |
| 4/30/2015 11:08:54 | 50.85 | 44.35 | 873 | 1.19 | 0.16 | 47.8 |
| 4/30/2015 11:08:55 | 51.18 | 44.68 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 11:08:55 | 51.51 | 45.01 | 876 | 1.18 | 0.16 | 47.9 |
| 4/30/2015 11:08:56 | 51.84 | 45.34 | 876 | 1.18 | 0.16 | 47.9 |
| 4/30/2015 11:08:56 | 52.17 | 45.67 | 873 | 1.19 | 0.16 | 47.7 |
| 4/30/2015 11:08:56 | 52.49 | 45.99 | 868 | 1.18 | 0.16 | 47.5 |
| 4/30/2015 11:08:57 | 52.82 | 46.32 | 870 | 1.19 | 0.16 | 47.6 |
| 4/30/2015 11:08:58 | 53.15 | 46.65 | 870 | 1.19 | 0.16 | 47.6 |
| 4/30/2015 11:08:58 | 53.48 | 46.98 | 857 | 1.20 | 0.15 | 46.9 |
| 4/30/2015 11:08:58 | 53.81 | 47.31 | 857 | 1.20 | 0.15 | 46.9 |
| 4/30/2015 11:08:59 | 54.13 | 47.63 | 851 | 1.22 | 0.16 | 46.5 |
| 4/30/2015 11:08:59 | 54.46 | 47.96 | 820 | 1.21 | 0.15 | 44.8 |
| 4/30/2015 11:09:00 | 54.79 | 48.29 | 798 | 1.23 | 0.16 | 43.6 |
| 4/30/2015 11:09:01 | 55.12 | 48.62 | 619 | 1.19 | 0.15 | 33.8 |
| 4/30/2015 11:09:01 | 55.45 | 48.95 | 578 | 1.21 | 0.16 | 31.6 |
| 4/30/2015 11:09:02 | 55.77 | 49.27 | 548 | 1.22 | 0.16 | 30.0 |
| 4/30/2015 11:09:02 | 56.10 | 49.60 | 522 | 1.23 | 0.16 | 28.5 |
| 4/30/2015 11:09:03 | 56.43 | 49.93 | 590 | 1.21 | 0.16 | 32.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:09:04 | 56.76 | 50.26 | 575 | 1.23 | 0.15 | 31.4 |
| 4/30/2015 | 11:09:04 | 57.09 | 50.59 | 570 | 1.27 | 0.15 | 31.2 |
| 4/30/2015 | 11:09:27 | 57.41 | 50.91 | 75 | 1.18 | 0.77 | 4.1 |
| 4/30/2015 | 11:09:30 | 57.74 | 51.24 | 181 | 1.11 | 0.82 | 9.9 |
| 4/30/2015 | 11:09:32 | 58.07 | 51.57 | 192 | 1.09 | 0.80 | 10.5 |
| 4/30/2015 | 11:09:33 | 58.40 | 51.90 | 220 | 1.11 | 0.77 | 12.0 |
| 4/30/2015 | 11:09:33 | 58.73 | 52.23 | 302 | 1.09 | 0.76 | 16.5 |
| 4/30/2015 | 11:09:35 | 59.06 | 52.56 | 336 | 1.15 | 0.79 | 18.4 |
| 4/30/2015 | 11:09:36 | 59.38 | 52.88 | 233 | 1.11 | 0.73 | 12.7 |
| 4/30/2015 | 11:09:38 | 59.71 | 53.21 | 193 | 1.13 | 0.75 | 10.5 |
| 4/30/2015 | 11:09:39 | 60.04 | 53.54 | 273 | 1.11 | 0.78 | 14.9 |
| 4/30/2015 | 11:09:40 | 60.37 | 53.87 | 325 | 1.19 | 0.76 | 17.8 |
| 4/30/2015 | 11:09:42 | 60.70 | 54.20 | 185 | 1.18 | 0.78 | 10.1 |
| 4/30/2015 | 11:09:43 | 61.02 | 54.52 | 149 | 1.11 | 0.78 | 8.2 |
| 4/30/2015 | 11:09:44 | 61.35 | 54.85 | 282 | 1.11 | 1.12 | 15.4 |
| 4/30/2015 | 11:09:48 | 61.55 | 55.05 | 94 | 0.56 | 0.97 | 5.2 |

## K226 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:06:03

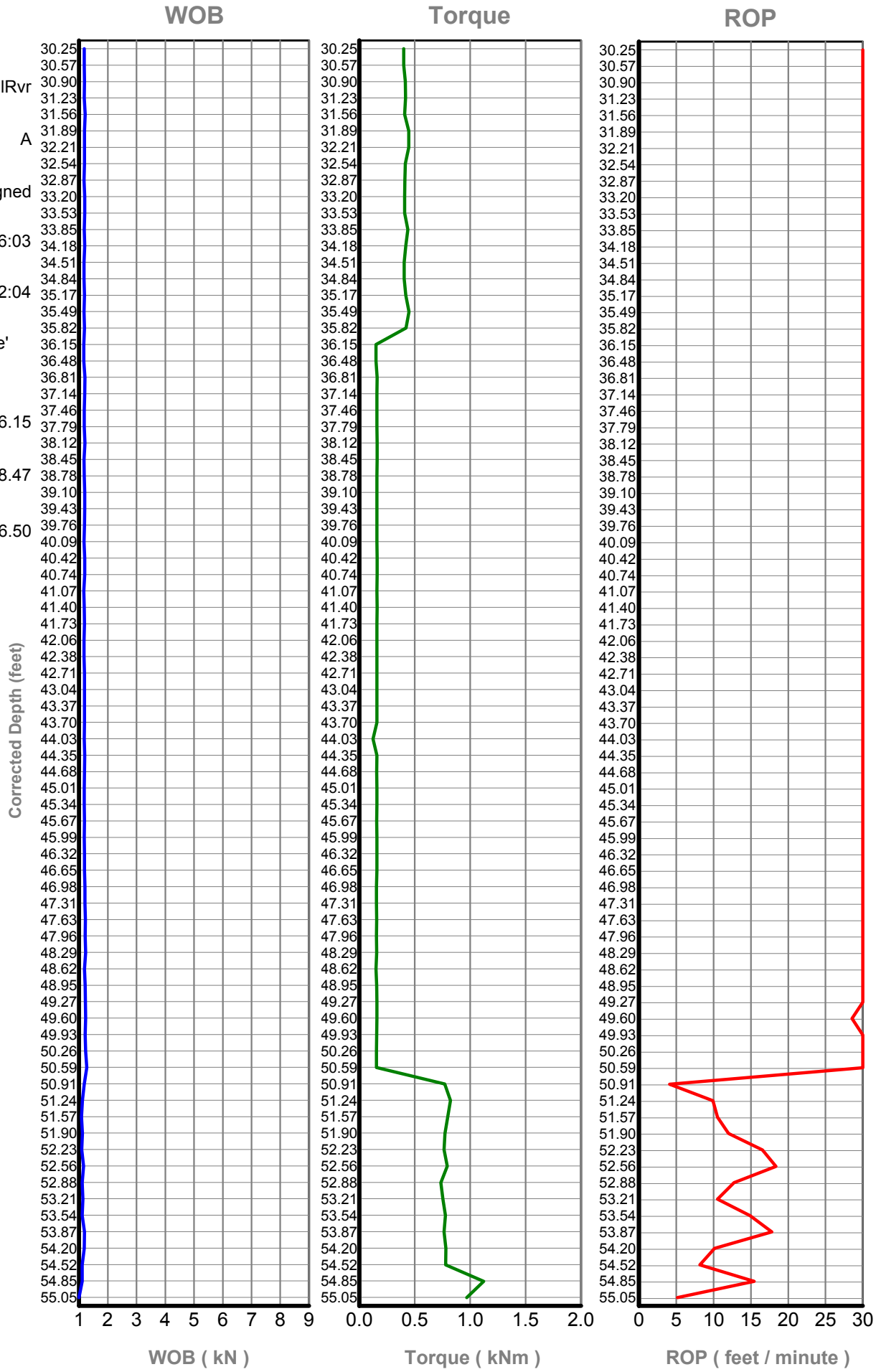
**End Date:**
4/30/2015 11:12:04

**Operator Note:**
'6.5 6.5 a Auto Complete'

**Northing:**
361,106.15

**Easting:**
244,718.47

**Tide (feet):**
6.50



## Hole: K227 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:08:21 | 36.75 | 30.25 | 0 | 0.32 | 0.24 | 0.0 |
| 4/30/2015 11:09:52 | 37.07 | 30.57 | 73 | 0.27 | 0.39 | 4.0 |
| 4/30/2015 11:09:53 | 37.40 | 30.90 | 73 | 0.27 | 0.39 | 4.0 |
| 4/30/2015 11:09:53 | 37.73 | 31.23 | 258 | 0.26 | 0.38 | 14.1 |
| 4/30/2015 11:09:53 | 38.06 | 31.56 | 444 | 0.27 | 0.38 | 24.3 |
| 4/30/2015 11:09:54 | 38.39 | 31.89 | 444 | 0.27 | 0.38 | 24.3 |
| 4/30/2015 11:09:54 | 38.71 | 32.21 | 650 | 0.26 | 0.38 | 35.5 |
| 4/30/2015 11:09:54 | 39.04 | 32.54 | 650 | 0.28 | 0.37 | 35.5 |
| 4/30/2015 11:09:55 | 39.37 | 32.87 | 650 | 0.28 | 0.37 | 35.5 |
| 4/30/2015 11:09:55 | 39.70 | 33.20 | 877 | 0.27 | 0.37 | 47.9 |
| 4/30/2015 11:09:55 | 40.03 | 33.53 | 877 | 0.27 | 0.37 | 47.9 |
| 4/30/2015 11:09:56 | 40.35 | 33.85 | 877 | 0.27 | 0.37 | 47.9 |
| 4/30/2015 11:09:56 | 40.68 | 34.18 | 1,025 | 0.27 | 0.37 | 56.0 |
| 4/30/2015 11:09:56 | 41.01 | 34.51 | 1,025 | 0.27 | 0.37 | 56.0 |
| 4/30/2015 11:09:56 | 41.34 | 34.84 | 1,064 | 0.27 | 0.38 | 58.2 |
| 4/30/2015 11:09:57 | 41.67 | 35.17 | 1,092 | 0.27 | 0.37 | 59.7 |
| 4/30/2015 11:09:57 | 41.99 | 35.49 | 1,092 | 0.27 | 0.37 | 59.7 |
| 4/30/2015 11:09:57 | 42.32 | 35.82 | 1,116 | 0.27 | 0.36 | 61.0 |
| 4/30/2015 11:09:58 | 42.65 | 36.15 | 1,116 | 0.27 | 0.36 | 61.0 |
| 4/30/2015 11:09:58 | 42.98 | 36.48 | 1,116 | 0.28 | 0.38 | 61.0 |
| 4/30/2015 11:09:58 | 43.31 | 36.81 | 1,112 | 0.28 | 0.36 | 60.8 |
| 4/30/2015 11:09:59 | 43.64 | 37.14 | 1,112 | 0.28 | 0.36 | 60.8 |
| 4/30/2015 11:09:59 | 43.96 | 37.46 | 1,133 | 0.27 | 0.36 | 62.0 |
| 4/30/2015 11:09:59 | 44.29 | 37.79 | 1,133 | 0.27 | 0.36 | 62.0 |
| 4/30/2015 11:09:59 | 44.62 | 38.12 | 1,122 | 0.28 | 0.37 | 61.4 |
| 4/30/2015 11:10:00 | 44.95 | 38.45 | 1,144 | 0.28 | 0.38 | 62.6 |
| 4/30/2015 11:10:01 | 45.28 | 38.78 | 1,144 | 0.28 | 0.38 | 62.6 |
| 4/30/2015 11:10:01 | 45.60 | 39.10 | 1,134 | 0.27 | 0.37 | 62.0 |
| 4/30/2015 11:10:01 | 45.93 | 39.43 | 1,134 | 0.27 | 0.37 | 62.0 |
| 4/30/2015 11:10:01 | 46.26 | 39.76 | 1,151 | 0.27 | 0.37 | 62.9 |
| 4/30/2015 11:10:02 | 46.59 | 40.09 | 1,146 | 0.27 | 0.37 | 62.7 |
| 4/30/2015 11:10:02 | 46.92 | 40.42 | 1,146 | 0.27 | 0.37 | 62.7 |
| 4/30/2015 11:10:02 | 47.24 | 40.74 | 1,146 | 0.27 | 0.35 | 62.7 |
| 4/30/2015 11:10:03 | 47.57 | 41.07 | 1,146 | 0.27 | 0.35 | 62.7 |
| 4/30/2015 11:10:03 | 47.90 | 41.40 | 1,174 | 0.27 | 0.37 | 64.2 |
| 4/30/2015 11:10:03 | 48.23 | 41.73 | 1,167 | 0.27 | 0.36 | 63.8 |
| 4/30/2015 11:10:04 | 48.56 | 42.06 | 1,167 | 0.27 | 0.36 | 63.8 |
| 4/30/2015 11:10:04 | 48.88 | 42.38 | 1,174 | 0.28 | 0.36 | 64.2 |
| 4/30/2015 11:10:04 | 49.21 | 42.71 | 1,174 | 0.28 | 0.36 | 64.2 |
| 4/30/2015 11:10:04 | 49.54 | 43.04 | 1,172 | 0.27 | 0.37 | 64.1 |
| 4/30/2015 11:10:05 | 49.87 | 43.37 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:05 | 50.20 | 43.70 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:05 | 50.53 | 44.03 | 1,156 | 0.28 | 0.37 | 63.2 |
| 4/30/2015 11:10:06 | 50.85 | 44.35 | 1,156 | 0.28 | 0.37 | 63.2 |
| 4/30/2015 11:10:06 | 51.18 | 44.68 | 1,156 | 0.28 | 0.36 | 63.2 |
| 4/30/2015 11:10:06 | 51.51 | 45.01 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:07 | 51.84 | 45.34 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:07 | 52.17 | 45.67 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:07 | 52.49 | 45.99 | 1,165 | 0.28 | 0.37 | 63.7 |
| 4/30/2015 11:10:07 | 52.82 | 46.32 | 1,175 | 0.28 | 0.37 | 64.2 |
| 4/30/2015 11:10:08 | 53.15 | 46.65 | 1,175 | 0.28 | 0.37 | 64.2 |
| 4/30/2015 11:10:08 | 53.48 | 46.98 | 1,162 | 0.28 | 0.36 | 63.5 |
| 4/30/2015 11:10:08 | 53.81 | 47.31 | 1,171 | 0.27 | 0.37 | 64.0 |
| 4/30/2015 11:10:09 | 54.13 | 47.63 | 1,171 | 0.27 | 0.37 | 64.0 |
| 4/30/2015 11:10:16 | 54.46 | 47.96 | 0 | 2.06 | 0.37 | 0.0 |
| 4/30/2015 11:10:17 | 54.79 | 48.29 | 86 | 2.32 | 0.40 | 4.7 |
| 4/30/2015 11:10:17 | 55.12 | 48.62 | 277 | 2.36 | 0.40 | 15.1 |
| 4/30/2015 11:10:18 | 55.45 | 48.95 | 451 | 2.70 | 0.40 | 24.7 |
| 4/30/2015 11:10:18 | 55.77 | 49.27 | 617 | 2.70 | 0.41 | 33.7 |
| 4/30/2015 11:10:19 | 56.10 | 49.60 | 617 | 2.70 | 0.41 | 33.7 |
| 4/30/2015 11:10:19 | 56.43 | 49.93 | 784 | 2.69 | 0.40 | 42.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:10:19 | 56.76 | 50.26 | 856 | 2.30 | 0.41 | 46.8 |
| 4/30/2015 | 11:10:20 | 57.09 | 50.59 | 827 | 2.47 | 0.40 | 45.2 |
| 4/30/2015 | 11:10:20 | 57.41 | 50.91 | 815 | 2.46 | 0.40 | 44.6 |
| 4/30/2015 | 11:10:21 | 57.74 | 51.24 | 821 | 2.21 | 0.40 | 44.9 |
| 4/30/2015 | 11:10:21 | 58.07 | 51.57 | 821 | 2.21 | 0.40 | 44.9 |
| 4/30/2015 | 11:10:21 | 58.40 | 51.90 | 830 | 2.24 | 0.40 | 45.4 |
| 4/30/2015 | 11:10:22 | 58.73 | 52.23 | 832 | 2.31 | 0.42 | 45.5 |
| 4/30/2015 | 11:10:23 | 59.06 | 52.56 | 807 | 2.68 | 0.44 | 44.1 |
| 4/30/2015 | 11:10:24 | 59.38 | 52.88 | 617 | 2.57 | 0.44 | 33.7 |
| 4/30/2015 | 11:10:25 | 59.71 | 53.21 | 543 | 2.36 | 0.41 | 29.7 |
| 4/30/2015 | 11:10:26 | 60.04 | 53.54 | 200 | 2.38 | 0.40 | 11.0 |
| 4/30/2015 | 11:10:27 | 60.37 | 53.87 | 259 | 2.19 | 0.41 | 14.1 |
| 4/30/2015 | 11:10:28 | 60.70 | 54.20 | 278 | 2.68 | 0.43 | 15.2 |
| 4/30/2015 | 11:10:29 | 61.02 | 54.52 | 339 | 2.08 | 0.40 | 18.6 |
| 4/30/2015 | 11:10:31 | 61.35 | 54.85 | 187 | 2.36 | 0.40 | 10.2 |
| 4/30/2015 | 11:10:31 | 61.64 | 55.14 | 216 | 3.38 | 0.50 | 11.8 |

## K227 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:06:00

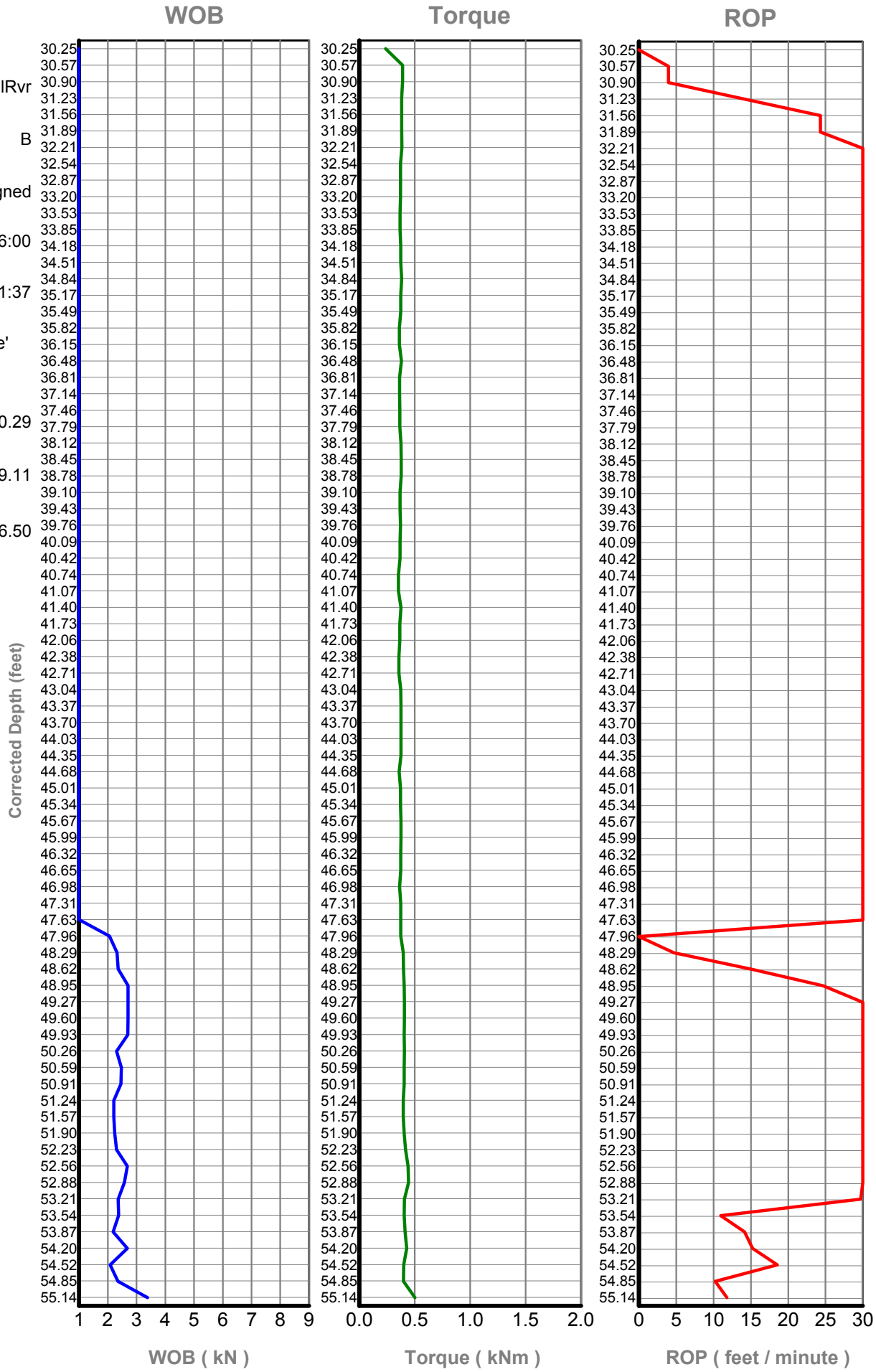
**End Date:**
4/30/2015 11:11:37

**Operator Note:**
'6.5 6.5 b Auto Complete'

**Northing:**
361,150.29

**Easting:**
244,779.11

**Tide (feet):**
6.50



## Hole: K228 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 11:07:29 | 36.75 | 30.25 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 11:07:30 | 37.07 | 30.57 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 11:07:30 | 37.40 | 30.90 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 11:07:30 | 37.73 | 31.23 | 967 | 1.14 | 0.29 | 52.9 |
| 4/30/2015 11:07:31 | 38.06 | 31.56 | 979 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 11:07:31 | 38.39 | 31.89 | 972 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 11:07:32 | 38.71 | 32.21 | 972 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 11:07:32 | 39.04 | 32.54 | 994 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 11:07:32 | 39.37 | 32.87 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 11:07:33 | 39.70 | 33.20 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 11:07:33 | 40.03 | 33.53 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 11:07:33 | 40.35 | 33.85 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 11:07:34 | 40.68 | 34.18 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 11:07:34 | 41.01 | 34.51 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:34 | 41.34 | 34.84 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 11:07:35 | 41.67 | 35.17 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 11:07:35 | 41.99 | 35.49 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 11:07:36 | 42.32 | 35.82 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 11:07:36 | 42.65 | 36.15 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 11:07:36 | 42.98 | 36.48 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 11:07:37 | 43.31 | 36.81 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 11:07:37 | 43.64 | 37.14 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:37 | 43.96 | 37.46 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:38 | 44.29 | 37.79 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:38 | 44.62 | 38.12 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:38 | 44.95 | 38.45 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:39 | 45.28 | 38.78 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:39 | 45.60 | 39.10 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:39 | 45.93 | 39.43 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:07:40 | 46.26 | 39.76 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 11:07:40 | 46.59 | 40.09 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:40 | 46.92 | 40.42 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:41 | 47.24 | 40.74 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:41 | 47.57 | 41.07 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:07:41 | 47.90 | 41.40 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:42 | 48.23 | 41.73 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 11:07:42 | 48.56 | 42.06 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:07:42 | 48.88 | 42.38 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:43 | 49.21 | 42.71 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 11:07:43 | 49.54 | 43.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:07:43 | 49.87 | 43.37 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:07:44 | 50.20 | 43.70 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 11:07:44 | 50.53 | 44.03 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:07:44 | 50.85 | 44.35 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:07:45 | 51.18 | 44.68 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:07:45 | 51.51 | 45.01 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 11:07:45 | 51.84 | 45.34 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 11:07:46 | 52.17 | 45.67 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 11:07:46 | 52.49 | 45.99 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 11:07:46 | 52.82 | 46.32 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 11:07:47 | 53.15 | 46.65 | 992 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 11:07:59 | 53.48 | 46.98 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 11:08:00 | 53.81 | 47.31 | 138 | 1.14 | 0.29 | 7.6 |
| 4/30/2015 11:08:00 | 54.13 | 47.63 | 278 | 1.14 | 0.29 | 15.2 |
| 4/30/2015 11:08:01 | 54.46 | 47.96 | 434 | 1.14 | 0.29 | 23.7 |
| 4/30/2015 11:08:01 | 54.79 | 48.29 | 583 | 1.14 | 0.29 | 31.9 |
| 4/30/2015 11:08:02 | 55.12 | 48.62 | 736 | 1.14 | 0.29 | 40.2 |
| 4/30/2015 11:08:04 | 55.45 | 48.95 | 303 | 1.14 | 0.29 | 16.6 |
| 4/30/2015 11:08:04 | 55.77 | 49.27 | 303 | 1.14 | 0.29 | 16.6 |
| 4/30/2015 11:08:05 | 56.10 | 49.60 | 276 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 11:08:05 | 56.43 | 49.93 | 260 | 1.14 | 0.29 | 14.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 11:08:06 | 56.76 | 50.26 | 396 | 1.14 | 0.29 | 21.6 |
| 4/30/2015 | 11:08:06 | 57.09 | 50.59 | 528 | 1.14 | 0.29 | 28.9 |
| 4/30/2015 | 11:08:12 | 57.41 | 50.91 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 11:08:13 | 57.74 | 51.24 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 | 11:08:13 | 58.07 | 51.57 | 244 | 1.14 | 0.29 | 13.4 |
| 4/30/2015 | 11:08:14 | 58.40 | 51.90 | 359 | 1.14 | 0.29 | 19.6 |
| 4/30/2015 | 11:08:14 | 58.73 | 52.23 | 497 | 1.14 | 0.29 | 27.2 |
| 4/30/2015 | 11:08:15 | 59.06 | 52.56 | 579 | 1.14 | 0.29 | 31.7 |
| 4/30/2015 | 11:08:20 | 59.38 | 52.88 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 11:08:20 | 59.71 | 53.21 | 135 | 1.14 | 0.29 | 7.4 |
| 4/30/2015 | 11:08:21 | 60.04 | 53.54 | 246 | 1.14 | 0.29 | 13.4 |
| 4/30/2015 | 11:08:26 | 60.37 | 53.87 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 11:08:30 | 60.70 | 54.20 | 9 | 1.14 | 0.29 | 0.5 |
| 4/30/2015 | 11:08:39 | 61.02 | 54.52 | 28 | 1.14 | 0.29 | 1.5 |
| 4/30/2015 | 11:08:39 | 61.35 | 54.85 | 97 | 1.14 | 0.29 | 5.3 |
| 4/30/2015 | 11:08:40 | 61.68 | 55.18 | 199 | 1.14 | 0.29 | 10.9 |

## K228 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 11:05:42

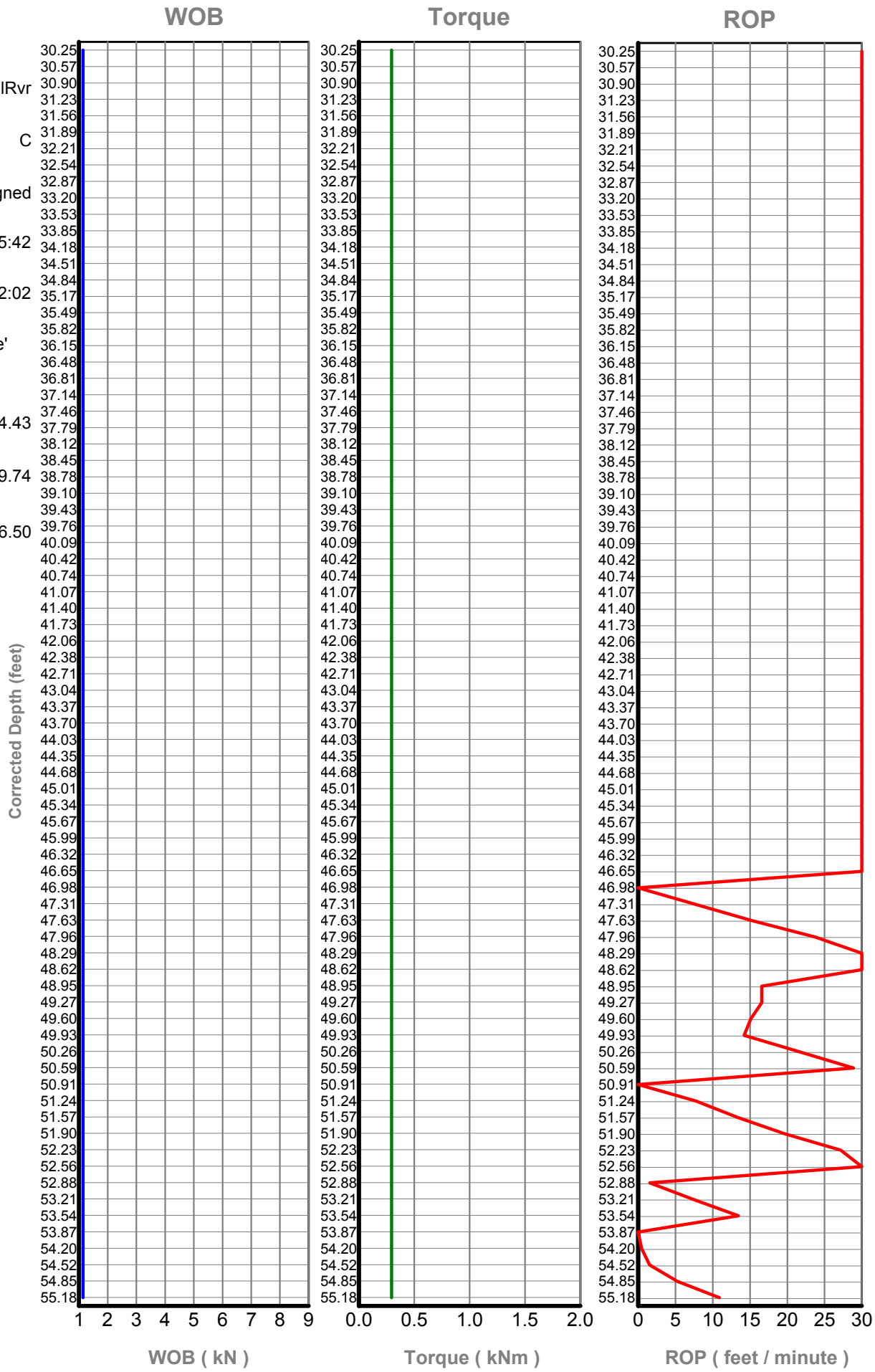
**End Date:**
4/30/2015 11:12:02

**Operator Note:**
'6.5 6.5 c Auto Complete'

**Northing:**
361,194.43

**Easting:**
244,839.74

**Tide (feet):**
6.50



## Hole: K229 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:26:29 | 33.46 | 30.06 | 981 | 1.06 | 0.13 | 53.6 |
| 4/29/2015 13:26:29 | 33.79 | 30.39 | 968 | 1.07 | 0.13 | 52.9 |
| 4/29/2015 13:26:30 | 34.12 | 30.72 | 968 | 1.07 | 0.13 | 52.9 |
| 4/29/2015 13:26:30 | 34.45 | 31.05 | 992 | 1.04 | 0.13 | 54.2 |
| 4/29/2015 13:26:30 | 34.78 | 31.38 | 980 | 1.07 | 0.13 | 53.6 |
| 4/29/2015 13:26:31 | 35.11 | 31.71 | 980 | 1.07 | 0.13 | 53.6 |
| 4/29/2015 13:26:31 | 35.43 | 32.03 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 13:26:31 | 35.76 | 32.36 | 966 | 1.07 | 0.13 | 52.8 |
| 4/29/2015 13:26:32 | 36.09 | 32.69 | 981 | 1.06 | 0.13 | 53.7 |
| 4/29/2015 13:26:32 | 36.42 | 33.02 | 981 | 1.06 | 0.13 | 53.7 |
| 4/29/2015 13:26:32 | 36.75 | 33.35 | 978 | 1.05 | 0.13 | 53.5 |
| 4/29/2015 13:26:33 | 37.07 | 33.67 | 978 | 1.08 | 0.13 | 53.5 |
| 4/29/2015 13:26:33 | 37.40 | 34.00 | 978 | 1.08 | 0.13 | 53.5 |
| 4/29/2015 13:26:33 | 37.73 | 34.33 | 973 | 1.07 | 0.13 | 53.2 |
| 4/29/2015 13:26:34 | 38.06 | 34.66 | 992 | 1.05 | 0.13 | 54.2 |
| 4/29/2015 13:26:34 | 38.39 | 34.99 | 992 | 1.05 | 0.13 | 54.2 |
| 4/29/2015 13:26:34 | 38.71 | 35.31 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 13:26:35 | 39.04 | 35.64 | 980 | 1.10 | 0.13 | 53.6 |
| 4/29/2015 13:26:35 | 39.37 | 35.97 | 980 | 1.05 | 0.13 | 53.6 |
| 4/29/2015 13:26:36 | 39.70 | 36.30 | 980 | 1.05 | 0.13 | 53.6 |
| 4/29/2015 13:26:36 | 40.03 | 36.63 | 983 | 1.05 | 0.13 | 53.7 |
| 4/29/2015 13:26:36 | 40.35 | 36.95 | 977 | 1.07 | 0.13 | 53.4 |
| 4/29/2015 13:26:37 | 40.68 | 37.28 | 977 | 1.07 | 0.13 | 53.4 |
| 4/29/2015 13:26:37 | 41.01 | 37.61 | 977 | 1.05 | 0.13 | 53.4 |
| 4/29/2015 13:26:38 | 41.34 | 37.94 | 969 | 1.05 | 0.13 | 53.0 |
| 4/29/2015 13:26:38 | 41.67 | 38.27 | 952 | 1.03 | 0.13 | 52.1 |
| 4/29/2015 13:26:38 | 41.99 | 38.59 | 952 | 1.03 | 0.13 | 52.1 |
| 4/29/2015 13:26:39 | 42.32 | 38.92 | 952 | 1.05 | 0.13 | 52.1 |
| 4/29/2015 13:26:39 | 42.65 | 39.25 | 952 | 1.07 | 0.13 | 52.1 |
| 4/29/2015 13:26:39 | 42.98 | 39.58 | 952 | 1.07 | 0.13 | 52.1 |
| 4/29/2015 13:26:40 | 43.31 | 39.91 | 952 | 1.08 | 0.12 | 52.1 |
| 4/29/2015 13:26:40 | 43.64 | 40.24 | 962 | 1.05 | 0.13 | 52.6 |
| 4/29/2015 13:26:41 | 43.96 | 40.56 | 962 | 1.05 | 0.13 | 52.6 |
| 4/29/2015 13:26:41 | 44.29 | 40.89 | 962 | 1.05 | 0.13 | 52.6 |
| 4/29/2015 13:26:41 | 44.62 | 41.22 | 962 | 1.05 | 0.13 | 52.6 |
| 4/29/2015 13:26:42 | 44.95 | 41.55 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 13:26:42 | 45.28 | 41.88 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 13:26:42 | 45.60 | 42.20 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 13:26:43 | 45.93 | 42.53 | 973 | 1.06 | 0.13 | 53.2 |
| 4/29/2015 13:26:43 | 46.26 | 42.86 | 973 | 1.06 | 0.13 | 53.2 |
| 4/29/2015 13:26:43 | 46.59 | 43.19 | 955 | 1.07 | 0.13 | 52.2 |
| 4/29/2015 13:26:44 | 46.92 | 43.52 | 944 | 1.05 | 0.13 | 51.6 |
| 4/29/2015 13:26:44 | 47.24 | 43.84 | 944 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 13:26:45 | 47.57 | 44.17 | 944 | 1.07 | 0.13 | 51.6 |
| 4/29/2015 13:26:45 | 47.90 | 44.50 | 953 | 1.06 | 0.13 | 52.1 |
| 4/29/2015 13:26:45 | 48.23 | 44.83 | 971 | 1.08 | 0.13 | 53.1 |
| 4/29/2015 13:26:46 | 48.56 | 45.16 | 971 | 1.08 | 0.13 | 53.1 |
| 4/29/2015 13:26:46 | 48.88 | 45.48 | 949 | 1.05 | 0.13 | 51.9 |
| 4/29/2015 13:26:46 | 49.21 | 45.81 | 961 | 1.07 | 0.13 | 52.6 |
| 4/29/2015 13:26:47 | 49.54 | 46.14 | 975 | 1.06 | 0.13 | 53.3 |
| 4/29/2015 13:26:47 | 49.87 | 46.47 | 975 | 1.06 | 0.13 | 53.3 |
| 4/29/2015 13:26:47 | 50.20 | 46.80 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 13:26:48 | 50.53 | 47.13 | 961 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 13:26:48 | 50.85 | 47.45 | 961 | 1.05 | 0.13 | 52.5 |
| 4/29/2015 13:26:48 | 51.18 | 47.78 | 972 | 1.07 | 0.13 | 53.1 |
| 4/29/2015 13:26:49 | 51.51 | 48.11 | 960 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 13:26:50 | 51.84 | 48.44 | 951 | 1.19 | 0.13 | 52.0 |
| 4/29/2015 13:26:50 | 52.17 | 48.77 | 911 | 1.09 | 0.11 | 49.8 |
| 4/29/2015 13:27:01 | 52.49 | 49.09 | 115 | 1.14 | 0.96 | 6.3 |
| 4/29/2015 13:27:06 | 52.82 | 49.42 | 60 | 1.03 | 1.64 | 3.3 |
| 4/29/2015 13:27:08 | 53.15 | 49.75 | 139 | 1.01 | 1.03 | 7.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:27:09 | 53.48 | 50.08 | 249 | 0.98 | 1.08 | 13.6 |
| 4/29/2015 | 13:27:11 | 53.81 | 50.41 | 284 | 1.15 | 1.29 | 15.5 |
| 4/29/2015 | 13:27:12 | 54.13 | 50.73 | 297 | 1.05 | 1.20 | 16.2 |
| 4/29/2015 | 13:27:13 | 54.46 | 51.06 | 320 | 1.08 | 1.31 | 17.5 |
| 4/29/2015 | 13:27:14 | 54.79 | 51.39 | 321 | 1.02 | 1.23 | 17.5 |
| 4/29/2015 | 13:27:15 | 55.12 | 51.72 | 284 | 1.10 | 1.02 | 15.5 |
| 4/29/2015 | 13:27:16 | 55.45 | 52.05 | 286 | 1.22 | 1.18 | 15.7 |
| 4/29/2015 | 13:27:18 | 55.77 | 52.37 | 233 | 1.07 | 0.99 | 12.8 |
| 4/29/2015 | 13:27:21 | 56.10 | 52.70 | 158 | 1.09 | 1.49 | 8.6 |
| 4/29/2015 | 13:27:24 | 56.43 | 53.03 | 106 | 0.99 | 1.08 | 5.8 |
| 4/29/2015 | 13:27:35 | 56.76 | 53.36 | 37 | 1.01 | 0.86 | 2.0 |
| 4/29/2015 | 13:27:44 | 57.09 | 53.69 | 38 | 1.08 | 0.94 | 2.1 |
| 4/29/2015 | 13:27:54 | 57.41 | 54.01 | 43 | 1.03 | 0.89 | 2.4 |
| 4/29/2015 | 13:28:02 | 57.74 | 54.34 | 46 | 1.09 | 1.06 | 2.5 |

## K229 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:25:01

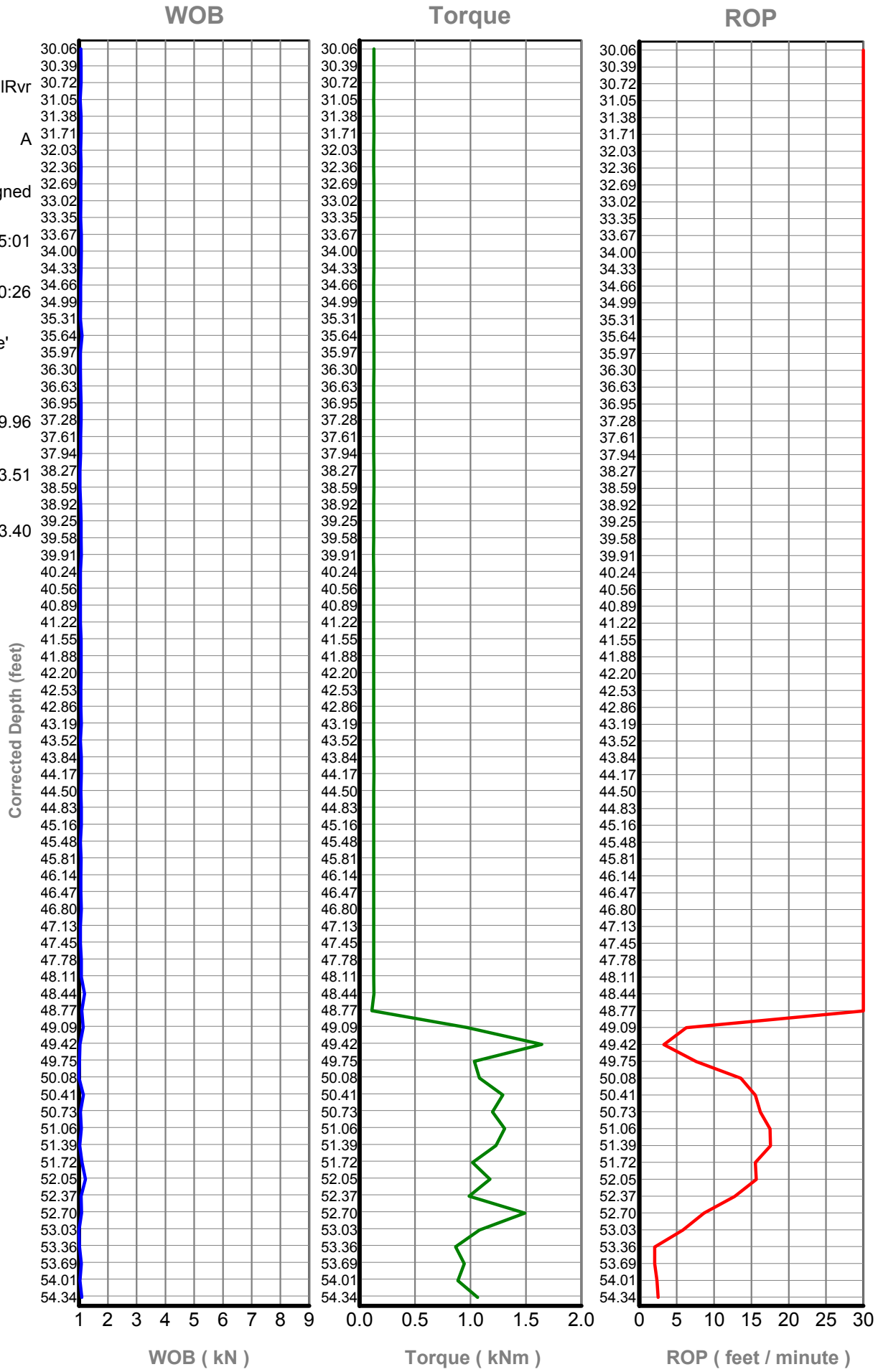
**End Date:**
4/29/2015 13:30:26

**Operator Note:**
'3.4 3.9 a Auto Complete'

**Northing:**
361,209.96

**Easting:**
244,893.51

**Tide (feet):**
3.40



## Hole: K23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 16:53:18 | 30.84 | 30.14 | 1,241 | 0.24 | 0.36 | 67.8 |
| 4/29/2015 16:53:18 | 31.17 | 30.47 | 1,241 | 0.24 | 0.36 | 67.8 |
| 4/29/2015 16:53:18 | 31.50 | 30.80 | 1,241 | 0.24 | 0.36 | 67.8 |
| 4/29/2015 16:53:19 | 31.82 | 31.12 | 1,241 | 0.24 | 0.36 | 67.8 |
| 4/29/2015 16:53:19 | 32.15 | 31.45 | 1,234 | 0.25 | 0.36 | 67.5 |
| 4/29/2015 16:53:19 | 32.48 | 31.78 | 1,234 | 0.25 | 0.36 | 67.5 |
| 4/29/2015 16:53:19 | 32.81 | 32.11 | 1,235 | 0.24 | 0.38 | 67.5 |
| 4/29/2015 16:53:20 | 33.14 | 32.44 | 1,248 | 0.24 | 0.37 | 68.2 |
| 4/29/2015 16:53:20 | 33.46 | 32.76 | 1,248 | 0.24 | 0.37 | 68.2 |
| 4/29/2015 16:53:20 | 33.79 | 33.09 | 1,224 | 0.25 | 0.36 | 67.0 |
| 4/29/2015 16:53:21 | 34.12 | 33.42 | 1,224 | 0.25 | 0.36 | 67.0 |
| 4/29/2015 16:53:21 | 34.45 | 33.75 | 1,237 | 0.25 | 0.35 | 67.7 |
| 4/29/2015 16:53:21 | 34.78 | 34.08 | 1,237 | 0.25 | 0.35 | 67.7 |
| 4/29/2015 16:53:21 | 35.11 | 34.41 | 1,234 | 0.24 | 0.36 | 67.5 |
| 4/29/2015 16:53:22 | 35.43 | 34.73 | 1,234 | 0.24 | 0.36 | 67.5 |
| 4/29/2015 16:53:22 | 35.76 | 35.06 | 1,232 | 0.25 | 0.35 | 67.3 |
| 4/29/2015 16:53:22 | 36.09 | 35.39 | 1,227 | 0.24 | 0.36 | 67.1 |
| 4/29/2015 16:53:23 | 36.42 | 35.72 | 1,227 | 0.24 | 0.36 | 67.1 |
| 4/29/2015 16:53:23 | 36.75 | 36.05 | 1,245 | 0.25 | 0.37 | 68.1 |
| 4/29/2015 16:53:24 | 37.07 | 36.37 | 1,245 | 0.25 | 0.37 | 68.1 |
| 4/29/2015 16:53:23 | 37.40 | 36.70 | 1,232 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:53:24 | 37.73 | 37.03 | 1,232 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:53:24 | 38.06 | 37.36 | 1,240 | 0.25 | 0.37 | 67.8 |
| 4/29/2015 16:53:25 | 38.39 | 37.69 | 1,240 | 0.25 | 0.37 | 67.8 |
| 4/29/2015 16:53:25 | 38.71 | 38.01 | 1,229 | 0.25 | 0.38 | 67.2 |
| 4/29/2015 16:53:25 | 39.04 | 38.34 | 1,249 | 0.26 | 0.34 | 68.3 |
| 4/29/2015 16:53:26 | 39.37 | 38.67 | 1,249 | 0.26 | 0.34 | 68.3 |
| 4/29/2015 16:53:26 | 39.70 | 39.00 | 1,233 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:53:26 | 40.03 | 39.33 | 1,233 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:53:26 | 40.35 | 39.65 | 1,243 | 0.24 | 0.37 | 68.0 |
| 4/29/2015 16:53:27 | 40.68 | 39.98 | 1,243 | 0.24 | 0.37 | 68.0 |
| 4/29/2015 16:53:27 | 41.01 | 40.31 | 1,236 | 0.25 | 0.36 | 67.6 |
| 4/29/2015 16:53:27 | 41.34 | 40.64 | 1,236 | 0.25 | 0.36 | 67.6 |
| 4/29/2015 16:53:27 | 41.67 | 40.97 | 1,253 | 0.24 | 0.37 | 68.5 |
| 4/29/2015 16:53:28 | 41.99 | 41.29 | 1,253 | 0.24 | 0.37 | 68.5 |
| 4/29/2015 16:53:28 | 42.32 | 41.62 | 1,246 | 0.24 | 0.37 | 68.1 |
| 4/29/2015 16:53:28 | 42.65 | 41.95 | 1,250 | 0.24 | 0.36 | 68.4 |
| 4/29/2015 16:53:29 | 42.98 | 42.28 | 1,250 | 0.24 | 0.36 | 68.4 |
| 4/29/2015 16:53:29 | 43.31 | 42.61 | 1,246 | 0.24 | 0.35 | 68.1 |
| 4/29/2015 16:53:29 | 43.64 | 42.94 | 1,246 | 0.24 | 0.35 | 68.1 |
| 4/29/2015 16:53:29 | 43.96 | 43.26 | 1,252 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 16:53:30 | 44.29 | 43.59 | 1,252 | 0.25 | 0.36 | 68.4 |
| 4/29/2015 16:53:30 | 44.62 | 43.92 | 1,249 | 0.24 | 0.36 | 68.3 |
| 4/29/2015 16:53:30 | 44.95 | 44.25 | 1,249 | 0.24 | 0.36 | 68.3 |
| 4/29/2015 16:53:30 | 45.28 | 44.58 | 1,246 | 0.29 | 0.45 | 68.1 |
| 4/29/2015 16:53:48 | 45.60 | 44.90 | 50 | 2.36 | 0.38 | 2.7 |
| 4/29/2015 16:53:49 | 45.93 | 45.23 | 235 | 3.57 | 0.43 | 12.9 |
| 4/29/2015 16:53:52 | 46.26 | 45.56 | 32 | 3.79 | 0.45 | 1.7 |
| 4/29/2015 16:54:06 | 46.59 | 45.89 | 23 | 5.93 | 0.46 | 1.2 |
| 4/29/2015 16:54:28 | 46.92 | 46.22 | 76 | 4.00 | 0.45 | 4.1 |
| 4/29/2015 16:54:29 | 47.24 | 46.54 | 231 | 3.75 | 0.45 | 12.6 |
| 4/29/2015 16:54:30 | 47.57 | 46.87 | 278 | 3.37 | 0.44 | 15.2 |
| 4/29/2015 16:54:31 | 47.90 | 47.20 | 324 | 2.97 | 0.43 | 17.7 |
| 4/29/2015 16:54:32 | 48.23 | 47.53 | 370 | 3.01 | 0.44 | 20.3 |
| 4/29/2015 16:54:40 | 48.56 | 47.86 | 17 | 3.31 | 0.47 | 1.0 |
| 4/29/2015 16:54:48 | 48.88 | 48.18 | 58 | 2.73 | 0.47 | 3.2 |
| 4/29/2015 16:54:57 | 49.21 | 48.51 | 40 | 2.71 | 0.47 | 2.2 |
| 4/29/2015 16:55:06 | 49.54 | 48.84 | 43 | 2.46 | 0.46 | 2.4 |
| 4/29/2015 16:55:15 | 49.87 | 49.17 | 30 | 2.56 | 0.45 | 1.7 |
| 4/29/2015 16:55:22 | 50.15 | 49.45 | 40 | 3.83 | 0.45 | 2.2 |

## K23 - Summary

**Pattern Number:**
AreaK_Lane14-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 16:51:47

**End Date:**
4/29/2015 16:57:41

**Operator Note:**
'0.7 0.8 b Rock'

**Northing:**
361,819.14

**Easting:**
244,430.03

**Tide (feet):**
0.70



## Hole: K230 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:14:09 | 33.79 | 30.19 | 945 | 1.08 | 0.13 | 51.7 |
| 4/29/2015 13:14:10 | 34.12 | 30.52 | 945 | 1.09 | 0.13 | 51.7 |
| 4/29/2015 13:14:10 | 34.45 | 30.85 | 945 | 1.08 | 0.14 | 51.7 |
| 4/29/2015 13:14:11 | 34.78 | 31.18 | 945 | 1.08 | 0.14 | 51.7 |
| 4/29/2015 13:14:11 | 35.11 | 31.51 | 940 | 1.07 | 0.13 | 51.4 |
| 4/29/2015 13:14:11 | 35.43 | 31.83 | 940 | 1.07 | 0.14 | 51.4 |
| 4/29/2015 13:14:12 | 35.76 | 32.16 | 940 | 1.07 | 0.14 | 51.4 |
| 4/29/2015 13:14:12 | 36.09 | 32.49 | 934 | 1.07 | 0.14 | 51.1 |
| 4/29/2015 13:14:12 | 36.42 | 32.82 | 939 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:14:13 | 36.75 | 33.15 | 939 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:14:13 | 37.07 | 33.47 | 939 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:14:13 | 37.40 | 33.80 | 939 | 1.08 | 0.14 | 51.4 |
| 4/29/2015 13:14:14 | 37.73 | 34.13 | 939 | 1.05 | 0.14 | 51.4 |
| 4/29/2015 13:14:14 | 38.06 | 34.46 | 948 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 13:14:15 | 38.39 | 34.79 | 948 | 1.07 | 0.13 | 51.9 |
| 4/29/2015 13:14:15 | 38.71 | 35.11 | 942 | 1.07 | 0.14 | 51.5 |
| 4/29/2015 13:14:15 | 39.04 | 35.44 | 942 | 1.08 | 0.13 | 51.5 |
| 4/29/2015 13:14:16 | 39.37 | 35.77 | 942 | 1.08 | 0.13 | 51.5 |
| 4/29/2015 13:14:16 | 39.70 | 36.10 | 942 | 1.06 | 0.14 | 51.5 |
| 4/29/2015 13:14:16 | 40.03 | 36.43 | 945 | 1.07 | 0.14 | 51.7 |
| 4/29/2015 13:14:17 | 40.35 | 36.75 | 942 | 1.06 | 0.14 | 51.5 |
| 4/29/2015 13:14:17 | 40.68 | 37.08 | 942 | 1.06 | 0.14 | 51.5 |
| 4/29/2015 13:14:17 | 41.01 | 37.41 | 940 | 1.07 | 0.14 | 51.4 |
| 4/29/2015 13:14:18 | 41.34 | 37.74 | 940 | 1.07 | 0.13 | 51.4 |
| 4/29/2015 13:14:18 | 41.67 | 38.07 | 940 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:14:19 | 41.99 | 38.39 | 940 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:14:19 | 42.32 | 38.72 | 937 | 1.08 | 0.14 | 51.2 |
| 4/29/2015 13:14:20 | 42.65 | 39.05 | 934 | 1.08 | 0.14 | 51.1 |
| 4/29/2015 13:14:20 | 42.98 | 39.38 | 937 | 1.07 | 0.13 | 51.2 |
| 4/29/2015 13:14:21 | 43.31 | 39.71 | 937 | 1.07 | 0.13 | 51.2 |
| 4/29/2015 13:14:21 | 43.64 | 40.04 | 937 | 1.07 | 0.14 | 51.2 |
| 4/29/2015 13:14:21 | 43.96 | 40.36 | 931 | 1.07 | 0.14 | 50.9 |
| 4/29/2015 13:14:22 | 44.29 | 40.69 | 931 | 1.07 | 0.14 | 50.9 |
| 4/29/2015 13:14:22 | 44.62 | 41.02 | 934 | 1.09 | 0.14 | 51.1 |
| 4/29/2015 13:14:22 | 44.95 | 41.35 | 931 | 1.09 | 0.13 | 50.9 |
| 4/29/2015 13:14:23 | 45.28 | 41.68 | 937 | 1.08 | 0.13 | 51.2 |
| 4/29/2015 13:14:23 | 45.60 | 42.00 | 937 | 1.08 | 0.13 | 51.2 |
| 4/29/2015 13:14:23 | 45.93 | 42.33 | 934 | 1.09 | 0.14 | 51.1 |
| 4/29/2015 13:14:24 | 46.26 | 42.66 | 936 | 1.09 | 0.13 | 51.2 |
| 4/29/2015 13:14:24 | 46.59 | 42.99 | 921 | 1.08 | 0.13 | 50.4 |
| 4/29/2015 13:14:25 | 46.92 | 43.32 | 921 | 1.08 | 0.13 | 50.4 |
| 4/29/2015 13:14:25 | 47.24 | 43.64 | 932 | 1.05 | 0.13 | 51.0 |
| 4/29/2015 13:14:25 | 47.57 | 43.97 | 929 | 1.10 | 0.13 | 50.8 |
| 4/29/2015 13:14:26 | 47.90 | 44.30 | 929 | 1.08 | 0.13 | 50.8 |
| 4/29/2015 13:14:26 | 48.23 | 44.63 | 929 | 1.08 | 0.13 | 50.8 |
| 4/29/2015 13:14:38 | 48.56 | 44.96 | 0 | 1.13 | 0.77 | 0.0 |
| 4/29/2015 13:14:39 | 48.88 | 45.28 | 87 | 1.12 | 0.83 | 4.8 |
| 4/29/2015 13:14:42 | 49.21 | 45.61 | 141 | 1.11 | 0.73 | 7.7 |
| 4/29/2015 13:14:43 | 49.54 | 45.94 | 227 | 1.12 | 0.68 | 12.4 |
| 4/29/2015 13:14:44 | 49.87 | 46.27 | 315 | 1.11 | 0.70 | 17.2 |
| 4/29/2015 13:14:45 | 50.20 | 46.60 | 316 | 1.11 | 0.72 | 17.3 |
| 4/29/2015 13:14:46 | 50.53 | 46.93 | 310 | 1.10 | 0.67 | 16.9 |
| 4/29/2015 13:14:47 | 50.85 | 47.25 | 309 | 1.08 | 0.68 | 16.9 |
| 4/29/2015 13:14:48 | 51.18 | 47.58 | 339 | 1.08 | 0.67 | 18.5 |
| 4/29/2015 13:14:49 | 51.51 | 47.91 | 376 | 1.27 | 0.67 | 20.6 |
| 4/29/2015 13:14:50 | 51.84 | 48.24 | 376 | 1.09 | 0.66 | 20.6 |
| 4/29/2015 13:14:50 | 52.17 | 48.57 | 453 | 1.08 | 0.68 | 24.8 |
| 4/29/2015 13:14:51 | 52.49 | 48.89 | 453 | 1.09 | 0.66 | 24.8 |
| 4/29/2015 13:14:52 | 52.82 | 49.22 | 497 | 1.09 | 0.67 | 27.2 |
| 4/29/2015 13:14:53 | 53.15 | 49.55 | 494 | 1.11 | 0.91 | 27.0 |
| 4/29/2015 13:14:58 | 53.48 | 49.88 | 22 | 1.16 | 1.75 | 1.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:15:00 | 53.81 | 50.21 | 95 | 0.43 | 1.05 | 5.2 |
| 4/29/2015 | 13:15:02 | 54.13 | 50.53 | 153 | 1.56 | 1.02 | 8.4 |
| 4/29/2015 | 13:15:02 | 54.46 | 50.86 | 153 | 1.70 | 1.00 | 8.4 |
| 4/29/2015 | 13:15:03 | 54.79 | 51.19 | 309 | 0.40 | 0.99 | 16.9 |
| 4/29/2015 | 13:15:04 | 55.12 | 51.52 | 415 | 0.79 | 0.82 | 22.7 |
| 4/29/2015 | 13:15:05 | 55.45 | 51.85 | 372 | 1.00 | 1.26 | 20.3 |
| 4/29/2015 | 13:15:07 | 55.77 | 52.17 | 338 | 1.14 | 0.98 | 18.5 |
| 4/29/2015 | 13:15:08 | 56.10 | 52.50 | 305 | 1.03 | 0.99 | 16.7 |
| 4/29/2015 | 13:15:09 | 56.43 | 52.83 | 284 | 1.05 | 1.12 | 15.5 |
| 4/29/2015 | 13:15:10 | 56.76 | 53.16 | 295 | 1.01 | 1.07 | 16.2 |
| 4/29/2015 | 13:15:12 | 57.09 | 53.49 | 232 | 1.06 | 1.16 | 12.7 |
| 4/29/2015 | 13:15:13 | 57.41 | 53.81 | 238 | 0.96 | 0.96 | 13.0 |
| 4/29/2015 | 13:15:15 | 57.74 | 54.14 | 263 | 1.02 | 1.18 | 14.4 |
| 4/29/2015 | 13:15:16 | 58.07 | 54.47 | 257 | 1.07 | 1.00 | 14.1 |
| 4/29/2015 | 13:15:17 | 58.40 | 54.80 | 269 | 1.17 | 1.45 | 14.7 |
| 4/29/2015 | 13:15:19 | 58.73 | 55.13 | 232 | 1.05 | 0.87 | 12.7 |
| 4/29/2015 | 13:15:20 | 59.06 | 55.46 | 214 | 1.01 | 0.96 | 11.7 |
| 4/29/2015 | 13:15:22 | 59.11 | 55.51 | 154 | 0.45 | 0.95 | 8.4 |

## K230 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 13:12:40

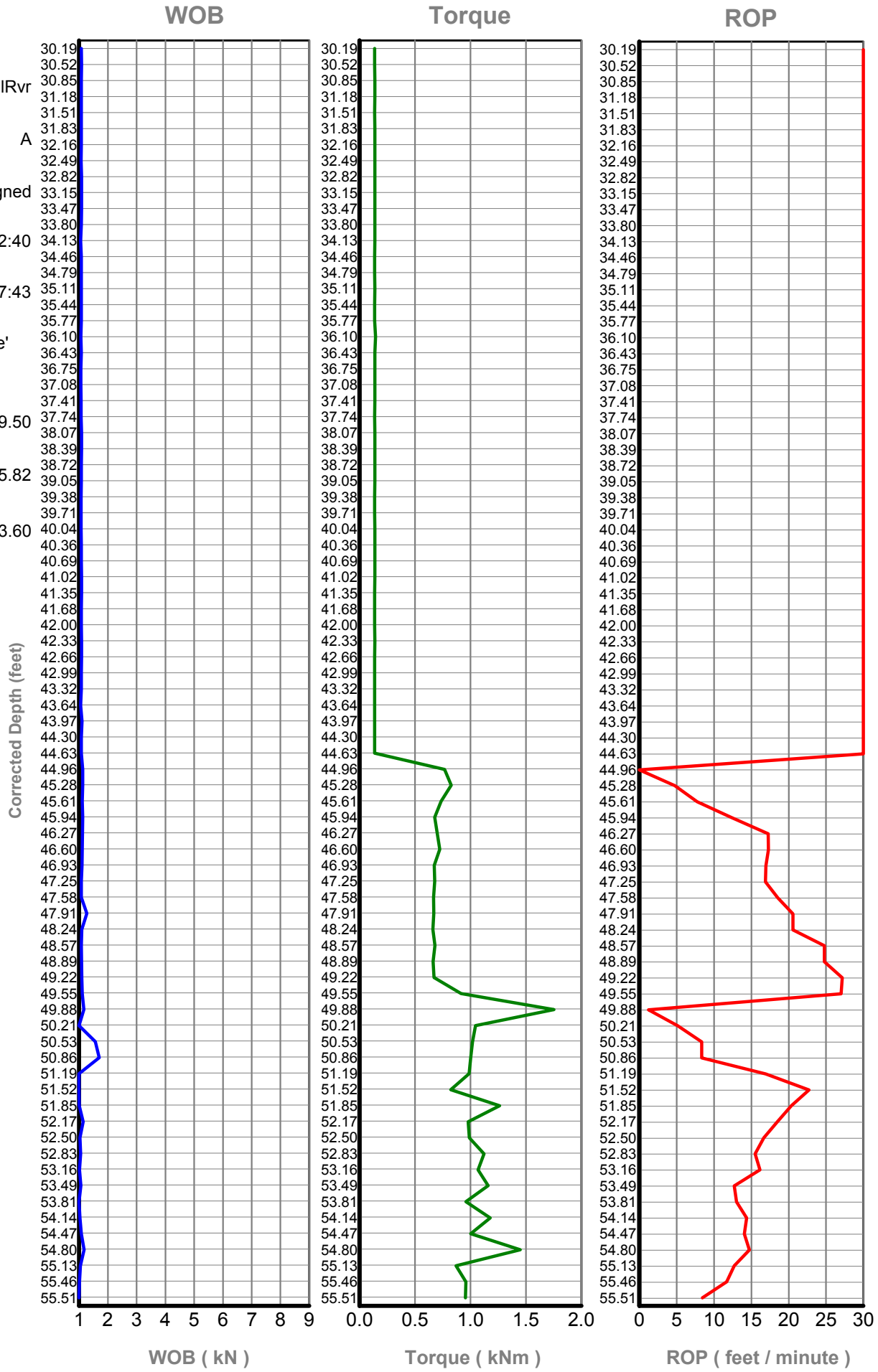
**End Date:**
4/29/2015 13:17:43

**Operator Note:**
'3.6 4.1 a Auto Complete'

**Northing:**
361,269.50

**Easting:**
244,945.82

**Tide (feet):**
3.60



## Hole: K231 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 13:01:33 | 34.12 | 30.12 | 954 | 1.09 | 0.14 | 52.2 |
| 4/29/2015 13:01:33 | 34.45 | 30.45 | 945 | 1.07 | 0.14 | 51.7 |
| 4/29/2015 13:01:34 | 34.78 | 30.78 | 957 | 1.06 | 0.14 | 52.3 |
| 4/29/2015 13:01:34 | 35.11 | 31.11 | 957 | 1.06 | 0.14 | 52.3 |
| 4/29/2015 13:01:34 | 35.43 | 31.43 | 936 | 1.07 | 0.14 | 51.2 |
| 4/29/2015 13:01:35 | 35.76 | 31.76 | 936 | 1.07 | 0.14 | 51.2 |
| 4/29/2015 13:01:35 | 36.09 | 32.09 | 942 | 1.07 | 0.14 | 51.5 |
| 4/29/2015 13:01:36 | 36.42 | 32.42 | 942 | 1.07 | 0.14 | 51.5 |
| 4/29/2015 13:01:36 | 36.75 | 32.75 | 945 | 1.05 | 0.14 | 51.7 |
| 4/29/2015 13:01:36 | 37.07 | 33.07 | 953 | 1.08 | 0.14 | 52.1 |
| 4/29/2015 13:01:37 | 37.40 | 33.40 | 953 | 1.08 | 0.14 | 52.1 |
| 4/29/2015 13:01:37 | 37.73 | 33.73 | 942 | 1.05 | 0.14 | 51.5 |
| 4/29/2015 13:01:37 | 38.06 | 34.06 | 960 | 1.07 | 0.14 | 52.5 |
| 4/29/2015 13:01:38 | 38.39 | 34.39 | 957 | 1.07 | 0.14 | 52.3 |
| 4/29/2015 13:01:38 | 38.71 | 34.71 | 957 | 1.07 | 0.14 | 52.3 |
| 4/29/2015 13:01:38 | 39.04 | 35.04 | 954 | 1.08 | 0.14 | 52.2 |
| 4/29/2015 13:01:39 | 39.37 | 35.37 | 954 | 1.06 | 0.14 | 52.2 |
| 4/29/2015 13:01:40 | 39.70 | 35.70 | 954 | 1.07 | 0.14 | 52.2 |
| 4/29/2015 13:01:40 | 40.03 | 36.03 | 954 | 1.07 | 0.14 | 52.2 |
| 4/29/2015 13:01:40 | 40.35 | 36.35 | 954 | 1.08 | 0.14 | 52.2 |
| 4/29/2015 13:01:41 | 40.68 | 36.68 | 951 | 1.07 | 0.14 | 52.0 |
| 4/29/2015 13:01:41 | 41.01 | 37.01 | 951 | 1.07 | 0.14 | 52.0 |
| 4/29/2015 13:01:41 | 41.34 | 37.34 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:42 | 41.67 | 37.67 | 943 | 1.08 | 0.14 | 51.6 |
| 4/29/2015 13:01:42 | 41.99 | 37.99 | 951 | 1.07 | 0.14 | 52.0 |
| 4/29/2015 13:01:43 | 42.32 | 38.32 | 951 | 1.07 | 0.14 | 52.0 |
| 4/29/2015 13:01:43 | 42.65 | 38.65 | 948 | 1.05 | 0.14 | 51.9 |
| 4/29/2015 13:01:43 | 42.98 | 38.98 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:44 | 43.31 | 39.31 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:44 | 43.64 | 39.64 | 948 | 1.06 | 0.14 | 51.9 |
| 4/29/2015 13:01:44 | 43.96 | 39.96 | 948 | 1.05 | 0.14 | 51.9 |
| 4/29/2015 13:01:45 | 44.29 | 40.29 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:45 | 44.62 | 40.62 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:45 | 44.95 | 40.95 | 948 | 1.07 | 0.14 | 51.9 |
| 4/29/2015 13:01:46 | 45.28 | 41.28 | 940 | 1.07 | 0.14 | 51.4 |
| 4/29/2015 13:01:46 | 45.60 | 41.60 | 948 | 1.08 | 0.14 | 51.9 |
| 4/29/2015 13:01:47 | 45.93 | 41.93 | 948 | 1.08 | 0.14 | 51.9 |
| 4/29/2015 13:01:47 | 46.26 | 42.26 | 942 | 1.08 | 0.14 | 51.5 |
| 4/29/2015 13:01:47 | 46.59 | 42.59 | 940 | 1.08 | 0.14 | 51.4 |
| 4/29/2015 13:01:48 | 46.92 | 42.92 | 940 | 1.08 | 0.14 | 51.4 |
| 4/29/2015 13:01:48 | 47.24 | 43.24 | 940 | 1.09 | 0.14 | 51.4 |
| 4/29/2015 13:01:48 | 47.57 | 43.57 | 940 | 1.07 | 0.14 | 51.4 |
| 4/29/2015 13:01:49 | 47.90 | 43.90 | 937 | 1.07 | 0.14 | 51.2 |
| 4/29/2015 13:01:50 | 48.23 | 44.23 | 937 | 1.07 | 0.14 | 51.2 |
| 4/29/2015 13:01:50 | 48.56 | 44.56 | 937 | 1.17 | 0.14 | 51.2 |
| 4/29/2015 13:02:02 | 48.88 | 44.88 | 32 | 1.11 | 0.67 | 1.8 |
| 4/29/2015 13:02:03 | 49.21 | 45.21 | 149 | 1.09 | 0.75 | 8.2 |
| 4/29/2015 13:02:05 | 49.54 | 45.54 | 293 | 1.13 | 0.68 | 16.0 |
| 4/29/2015 13:02:06 | 49.87 | 45.87 | 295 | 1.10 | 0.68 | 16.1 |
| 4/29/2015 13:02:07 | 50.20 | 46.20 | 329 | 1.09 | 0.70 | 18.0 |
| 4/29/2015 13:02:07 | 50.53 | 46.53 | 329 | 1.09 | 0.71 | 18.0 |
| 4/29/2015 13:02:08 | 50.85 | 46.85 | 358 | 1.09 | 0.71 | 19.6 |
| 4/29/2015 13:02:09 | 51.18 | 47.18 | 382 | 1.09 | 0.70 | 20.9 |
| 4/29/2015 13:02:10 | 51.51 | 47.51 | 443 | 1.09 | 0.82 | 24.2 |
| 4/29/2015 13:02:11 | 51.84 | 47.84 | 455 | 1.09 | 0.76 | 24.9 |
| 4/29/2015 13:02:12 | 52.17 | 48.17 | 448 | 1.11 | 0.82 | 24.5 |
| 4/29/2015 13:02:13 | 52.49 | 48.49 | 434 | 1.11 | 0.84 | 23.7 |
| 4/29/2015 13:02:13 | 52.82 | 48.82 | 436 | 1.11 | 0.85 | 23.9 |
| 4/29/2015 13:02:14 | 53.15 | 49.15 | 423 | 1.11 | 1.19 | 23.2 |
| 4/29/2015 13:02:16 | 53.48 | 49.48 | 320 | 1.14 | 1.09 | 17.5 |
| 4/29/2015 13:02:21 | 53.81 | 49.81 | 92 | 1.00 | 1.53 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 13:02:22 | 54.13 | 50.13 | 180 | 1.07 | 1.22 | 9.8 |
| 4/29/2015 | 13:02:24 | 54.46 | 50.46 | 146 | 1.07 | 1.12 | 8.0 |
| 4/29/2015 | 13:02:26 | 54.79 | 50.79 | 153 | 1.07 | 0.94 | 8.4 |
| 4/29/2015 | 13:02:27 | 55.12 | 51.12 | 227 | 1.14 | 0.97 | 12.4 |
| 4/29/2015 | 13:02:29 | 55.45 | 51.45 | 236 | 1.10 | 0.81 | 12.9 |
| 4/29/2015 | 13:02:31 | 55.77 | 51.77 | 246 | 1.09 | 0.88 | 13.5 |
| 4/29/2015 | 13:02:32 | 56.10 | 52.10 | 249 | 1.09 | 1.08 | 13.6 |
| 4/29/2015 | 13:02:34 | 56.43 | 52.43 | 236 | 1.13 | 1.27 | 12.9 |
| 4/29/2015 | 13:02:35 | 56.76 | 52.76 | 230 | 1.13 | 1.13 | 12.6 |
| 4/29/2015 | 13:02:37 | 57.09 | 53.09 | 234 | 1.06 | 1.10 | 12.8 |
| 4/29/2015 | 13:02:38 | 57.41 | 53.41 | 230 | 1.09 | 1.21 | 12.6 |
| 4/29/2015 | 13:02:39 | 57.74 | 53.74 | 233 | 1.05 | 0.94 | 12.7 |
| 4/29/2015 | 13:02:41 | 58.07 | 54.07 | 225 | 1.05 | 0.92 | 12.3 |
| 4/29/2015 | 13:02:42 | 58.40 | 54.40 | 273 | 1.07 | 0.91 | 14.9 |
| 4/29/2015 | 13:02:43 | 58.73 | 54.73 | 268 | 1.06 | 0.89 | 14.6 |
| 4/29/2015 | 13:02:45 | 59.06 | 55.06 | 259 | 1.11 | 1.36 | 14.2 |
| 4/29/2015 | 13:02:46 | 59.38 | 55.38 | 213 | 1.08 | 0.83 | 11.7 |
| 4/29/2015 | 13:02:47 | 59.43 | 55.43 | 216 | 0.46 | 0.77 | 11.8 |

## K231 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:59:35

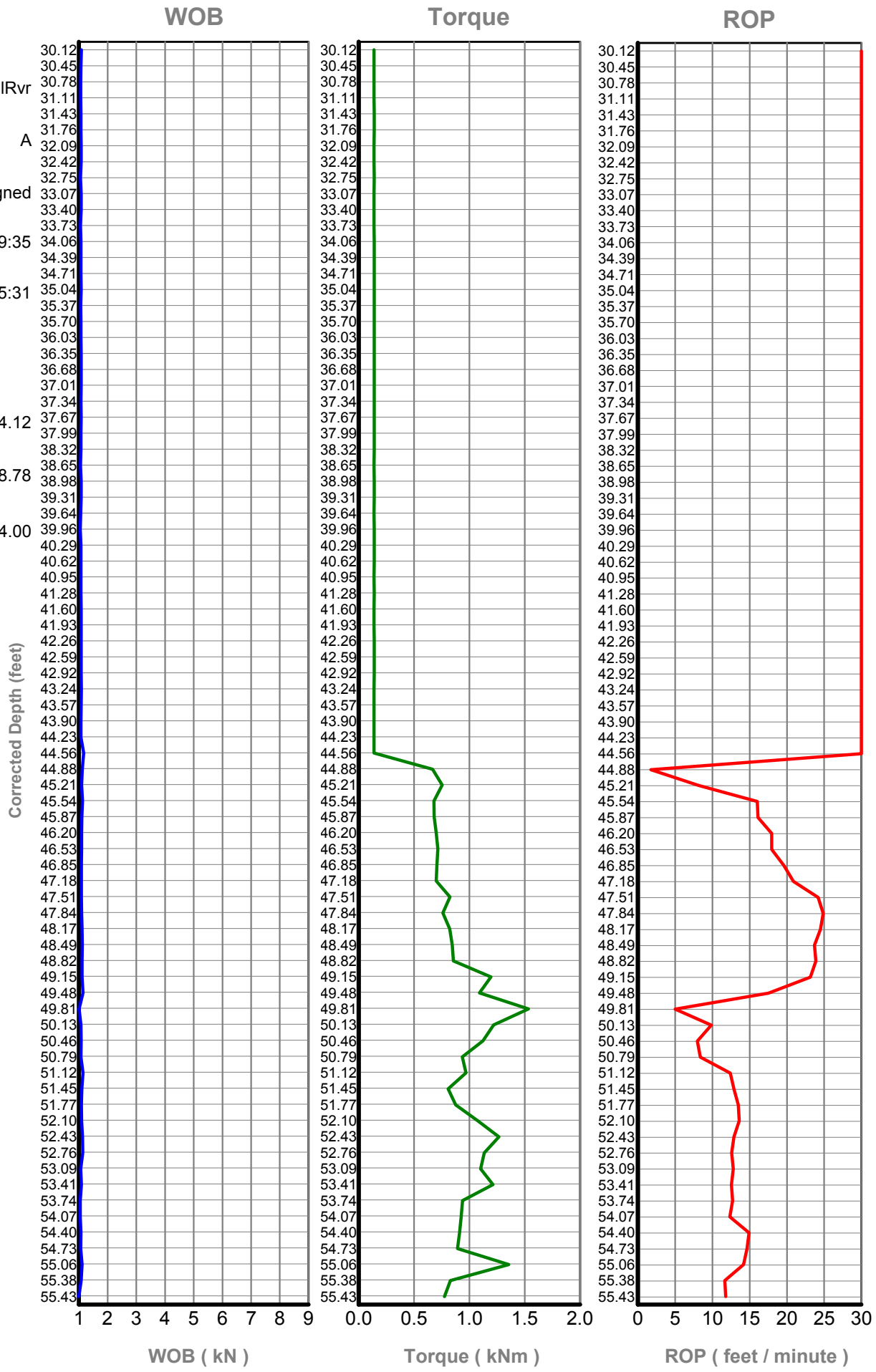
**End Date:**
4/29/2015 13:05:31

**Operator Note:**
'4 4.3 a Auto Complete'

**Northing:**
361,314.12

**Easting:**
244,988.78

**Tide (feet):**
4.00



## Hole: K232 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:46:07 | 34.45 | 30.25 | 963 | 1.10 | 0.14 | 52.7 |
| 4/29/2015 12:46:08 | 34.78 | 30.58 | 963 | 1.10 | 0.14 | 52.7 |
| 4/29/2015 12:46:08 | 35.11 | 30.91 | 939 | 1.10 | 0.14 | 51.4 |
| 4/29/2015 12:46:08 | 35.43 | 31.23 | 944 | 1.09 | 0.13 | 51.6 |
| 4/29/2015 12:46:09 | 35.76 | 31.56 | 953 | 1.11 | 0.14 | 52.1 |
| 4/29/2015 12:46:09 | 36.09 | 31.89 | 953 | 1.11 | 0.14 | 52.1 |
| 4/29/2015 12:46:09 | 36.42 | 32.22 | 947 | 1.10 | 0.14 | 51.8 |
| 4/29/2015 12:46:10 | 36.75 | 32.55 | 940 | 1.11 | 0.13 | 51.4 |
| 4/29/2015 12:46:10 | 37.07 | 32.87 | 940 | 1.11 | 0.13 | 51.4 |
| 4/29/2015 12:46:10 | 37.40 | 33.20 | 962 | 1.11 | 0.14 | 52.6 |
| 4/29/2015 12:46:11 | 37.73 | 33.53 | 976 | 1.09 | 0.14 | 53.4 |
| 4/29/2015 12:46:11 | 38.06 | 33.86 | 976 | 1.10 | 0.13 | 53.4 |
| 4/29/2015 12:46:12 | 38.39 | 34.19 | 976 | 1.10 | 0.13 | 53.4 |
| 4/29/2015 12:46:12 | 38.71 | 34.51 | 998 | 1.11 | 0.13 | 54.6 |
| 4/29/2015 12:46:13 | 39.04 | 34.84 | 963 | 1.10 | 0.13 | 52.6 |
| 4/29/2015 12:46:13 | 39.37 | 35.17 | 963 | 1.10 | 0.13 | 52.6 |
| 4/29/2015 12:46:13 | 39.70 | 35.50 | 965 | 1.10 | 0.14 | 52.8 |
| 4/29/2015 12:46:14 | 40.03 | 35.83 | 965 | 1.12 | 0.14 | 52.8 |
| 4/29/2015 12:46:14 | 40.35 | 36.15 | 959 | 1.11 | 0.14 | 52.5 |
| 4/29/2015 12:46:15 | 40.68 | 36.48 | 959 | 1.11 | 0.14 | 52.5 |
| 4/29/2015 12:46:15 | 41.01 | 36.81 | 959 | 1.11 | 0.14 | 52.5 |
| 4/29/2015 12:46:15 | 41.34 | 37.14 | 956 | 1.11 | 0.14 | 52.3 |
| 4/29/2015 12:46:16 | 41.67 | 37.47 | 956 | 1.11 | 0.14 | 52.3 |
| 4/29/2015 12:46:16 | 41.99 | 37.79 | 956 | 1.10 | 0.14 | 52.3 |
| 4/29/2015 12:46:16 | 42.32 | 38.12 | 963 | 1.11 | 0.14 | 52.6 |
| 4/29/2015 12:46:17 | 42.65 | 38.45 | 957 | 1.10 | 0.13 | 52.3 |
| 4/29/2015 12:46:17 | 42.98 | 38.78 | 957 | 1.10 | 0.13 | 52.3 |
| 4/29/2015 12:46:17 | 43.31 | 39.11 | 957 | 1.11 | 0.14 | 52.3 |
| 4/29/2015 12:46:18 | 43.64 | 39.44 | 971 | 1.12 | 0.14 | 53.1 |
| 4/29/2015 12:46:18 | 43.96 | 39.76 | 971 | 1.12 | 0.14 | 53.1 |
| 4/29/2015 12:46:18 | 44.29 | 40.09 | 939 | 1.11 | 0.14 | 51.4 |
| 4/29/2015 12:46:19 | 44.62 | 40.42 | 939 | 1.11 | 0.14 | 51.4 |
| 4/29/2015 12:46:19 | 44.95 | 40.75 | 939 | 1.13 | 0.14 | 51.4 |
| 4/29/2015 12:46:20 | 45.28 | 41.08 | 939 | 1.13 | 0.14 | 51.4 |
| 4/29/2015 12:46:20 | 45.60 | 41.40 | 957 | 1.14 | 0.14 | 52.3 |
| 4/29/2015 12:46:20 | 45.93 | 41.73 | 954 | 1.14 | 0.14 | 52.2 |
| 4/29/2015 12:46:21 | 46.26 | 42.06 | 923 | 1.16 | 0.14 | 50.5 |
| 4/29/2015 12:46:21 | 46.59 | 42.39 | 923 | 1.16 | 0.14 | 50.5 |
| 4/29/2015 12:46:21 | 46.92 | 42.72 | 914 | 1.14 | 0.14 | 50.0 |
| 4/29/2015 12:46:22 | 47.24 | 43.04 | 876 | 1.15 | 0.14 | 47.9 |
| 4/29/2015 12:46:23 | 47.57 | 43.37 | 828 | 1.15 | 0.14 | 45.3 |
| 4/29/2015 12:46:23 | 47.90 | 43.70 | 797 | 1.19 | 0.14 | 43.6 |
| 4/29/2015 12:46:43 | 48.23 | 44.03 | 0 | 1.11 | 0.66 | 0.0 |
| 4/29/2015 12:46:46 | 48.56 | 44.36 | 142 | 1.13 | 0.70 | 7.7 |
| 4/29/2015 12:46:47 | 48.88 | 44.68 | 154 | 1.14 | 0.73 | 8.4 |
| 4/29/2015 12:46:48 | 49.21 | 45.01 | 302 | 1.11 | 0.78 | 16.5 |
| 4/29/2015 12:46:48 | 49.54 | 45.34 | 393 | 1.11 | 0.99 | 21.5 |
| 4/29/2015 12:46:49 | 49.87 | 45.67 | 452 | 1.11 | 1.09 | 24.7 |
| 4/29/2015 12:46:50 | 50.20 | 46.00 | 465 | 1.11 | 0.78 | 25.5 |
| 4/29/2015 12:46:51 | 50.53 | 46.33 | 468 | 1.11 | 0.75 | 25.6 |
| 4/29/2015 12:46:52 | 50.85 | 46.65 | 338 | 1.19 | 0.76 | 18.5 |
| 4/29/2015 12:46:53 | 51.18 | 46.98 | 328 | 1.11 | 0.72 | 17.9 |
| 4/29/2015 12:46:54 | 51.51 | 47.31 | 336 | 1.11 | 0.76 | 18.4 |
| 4/29/2015 12:46:55 | 51.84 | 47.64 | 425 | 1.11 | 0.74 | 23.2 |
| 4/29/2015 12:46:56 | 52.17 | 47.97 | 448 | 1.11 | 0.88 | 24.5 |
| 4/29/2015 12:47:03 | 52.49 | 48.29 | 6 | 1.48 | 0.86 | 0.3 |
| 4/29/2015 12:47:10 | 52.82 | 48.62 | 88 | 0.35 | 0.94 | 4.8 |
| 4/29/2015 12:47:12 | 53.15 | 48.95 | 221 | 1.53 | 0.57 | 12.1 |
| 4/29/2015 12:47:12 | 53.48 | 49.28 | 259 | 1.11 | 1.11 | 14.2 |
| 4/29/2015 12:47:14 | 53.81 | 49.61 | 245 | 2.02 | 0.89 | 13.4 |
| 4/29/2015 12:47:15 | 54.13 | 49.93 | 324 | 1.24 | 0.71 | 17.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:47:16 | 54.46 | 50.26 | 256 | 2.08 | 1.35 | 14.0 |
| 4/29/2015 | 12:47:18 | 54.79 | 50.59 | 259 | 1.91 | 1.19 | 14.2 |
| 4/29/2015 | 12:47:20 | 55.12 | 50.92 | 183 | 1.83 | 1.11 | 10.0 |
| 4/29/2015 | 12:47:21 | 55.45 | 51.25 | 259 | 1.87 | 1.41 | 14.2 |
| 4/29/2015 | 12:47:22 | 55.77 | 51.57 | 335 | 1.85 | 1.61 | 18.3 |
| 4/29/2015 | 12:47:23 | 56.10 | 51.90 | 353 | 1.93 | 1.38 | 19.3 |
| 4/29/2015 | 12:47:25 | 56.43 | 52.23 | 224 | 0.53 | 1.17 | 12.3 |
| 4/29/2015 | 12:47:27 | 56.76 | 52.56 | 207 | 1.15 | 1.39 | 11.3 |
| 4/29/2015 | 12:47:29 | 57.09 | 52.89 | 182 | 1.04 | 1.48 | 9.9 |
| 4/29/2015 | 12:47:31 | 57.41 | 53.21 | 163 | 1.05 | 1.35 | 8.9 |
| 4/29/2015 | 12:47:32 | 57.74 | 53.54 | 220 | 1.09 | 0.78 | 12.0 |
| 4/29/2015 | 12:47:33 | 58.07 | 53.87 | 267 | 1.09 | 0.83 | 14.6 |
| 4/29/2015 | 12:47:34 | 58.40 | 54.20 | 390 | 1.12 | 1.12 | 21.3 |
| 4/29/2015 | 12:47:35 | 58.73 | 54.53 | 323 | 1.05 | 1.24 | 17.7 |
| 4/29/2015 | 12:47:37 | 59.06 | 54.86 | 209 | 1.13 | 1.38 | 11.4 |
| 4/29/2015 | 12:47:40 | 59.38 | 55.18 | 164 | 1.09 | 1.24 | 9.0 |
| 4/29/2015 | 12:47:42 | 59.66 | 55.46 | 121 | 0.48 | 0.86 | 6.6 |

## K232 - Summary

**Pattern Number:**
AreaK_Lane11-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:44:25

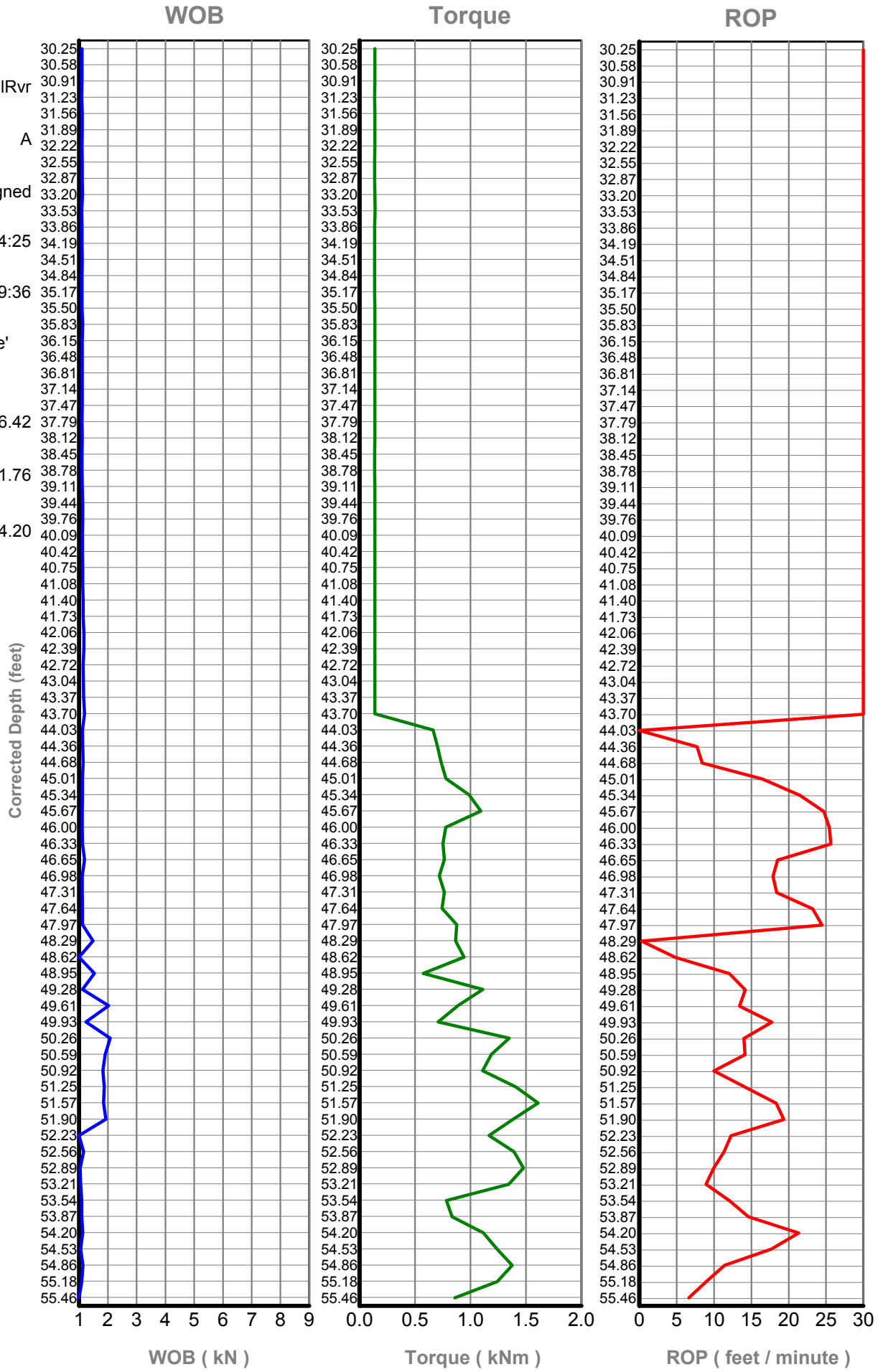
**End Date:**
4/29/2015 12:49:36

**Operator Note:**
'4.2 4.6 a Auto Complete'

**Northing:**
361,376.42

**Easting:**
245,051.76

**Tide (feet):**
4.20



## Hole: K233 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:54:16 | 35.11 | 30.01 | 1,138 | 1.55 | 0.26 | 62.2 |
| 4/29/2015 11:54:16 | 35.43 | 30.33 | 1,120 | 1.55 | 0.26 | 61.2 |
| 4/29/2015 11:54:17 | 35.76 | 30.66 | 1,126 | 1.51 | 0.27 | 61.6 |
| 4/29/2015 11:54:17 | 36.09 | 30.99 | 1,126 | 1.51 | 0.27 | 61.6 |
| 4/29/2015 11:54:17 | 36.42 | 31.32 | 1,143 | 1.56 | 0.26 | 62.5 |
| 4/29/2015 11:54:18 | 36.75 | 31.65 | 1,143 | 1.56 | 0.26 | 62.5 |
| 4/29/2015 11:54:18 | 37.07 | 31.97 | 1,151 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 11:54:18 | 37.40 | 32.30 | 1,149 | 1.53 | 0.26 | 62.8 |
| 4/29/2015 11:54:19 | 37.73 | 32.63 | 1,149 | 1.53 | 0.26 | 62.8 |
| 4/29/2015 11:54:19 | 38.06 | 32.96 | 1,140 | 1.59 | 0.26 | 62.3 |
| 4/29/2015 11:54:19 | 38.39 | 33.29 | 1,140 | 1.59 | 0.26 | 62.3 |
| 4/29/2015 11:54:19 | 38.71 | 33.61 | 1,140 | 1.52 | 0.26 | 62.3 |
| 4/29/2015 11:54:20 | 39.04 | 33.94 | 1,152 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:54:20 | 39.37 | 34.27 | 1,152 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:54:20 | 39.70 | 34.60 | 1,144 | 1.56 | 0.26 | 62.6 |
| 4/29/2015 11:54:21 | 40.03 | 34.93 | 1,144 | 1.56 | 0.26 | 62.6 |
| 4/29/2015 11:54:21 | 40.35 | 35.25 | 1,132 | 1.52 | 0.26 | 61.9 |
| 4/29/2015 11:54:21 | 40.68 | 35.58 | 1,113 | 1.54 | 0.26 | 60.9 |
| 4/29/2015 11:54:22 | 41.01 | 35.91 | 1,113 | 1.54 | 0.26 | 60.9 |
| 4/29/2015 11:54:22 | 41.34 | 36.24 | 1,146 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 11:54:22 | 41.67 | 36.57 | 1,146 | 1.53 | 0.26 | 62.7 |
| 4/29/2015 11:54:22 | 41.99 | 36.89 | 1,110 | 1.52 | 0.26 | 60.7 |
| 4/29/2015 11:54:23 | 42.32 | 37.22 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:23 | 42.65 | 37.55 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:23 | 42.98 | 37.88 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:24 | 43.31 | 38.21 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:24 | 43.64 | 38.54 | 1,135 | 1.53 | 0.26 | 62.1 |
| 4/29/2015 11:54:24 | 43.96 | 38.86 | 1,160 | 1.51 | 0.26 | 63.5 |
| 4/29/2015 11:54:25 | 44.29 | 39.19 | 1,160 | 1.51 | 0.26 | 63.5 |
| 4/29/2015 11:54:25 | 44.62 | 39.52 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:25 | 44.95 | 39.85 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:25 | 45.28 | 40.18 | 1,117 | 1.53 | 0.26 | 61.1 |
| 4/29/2015 11:54:26 | 45.60 | 40.50 | 1,160 | 1.53 | 0.26 | 63.4 |
| 4/29/2015 11:54:26 | 45.93 | 40.83 | 1,160 | 1.53 | 0.26 | 63.4 |
| 4/29/2015 11:54:27 | 46.26 | 41.16 | 1,153 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:54:27 | 46.59 | 41.49 | 1,153 | 1.54 | 0.26 | 63.0 |
| 4/29/2015 11:54:27 | 46.92 | 41.82 | 1,132 | 1.54 | 0.26 | 61.9 |
| 4/29/2015 11:54:28 | 47.24 | 42.14 | 1,104 | 1.55 | 0.26 | 60.4 |
| 4/29/2015 11:54:28 | 47.57 | 42.47 | 1,104 | 1.55 | 0.26 | 60.4 |
| 4/29/2015 11:54:28 | 47.90 | 42.80 | 1,104 | 1.53 | 0.26 | 60.4 |
| 4/29/2015 11:54:29 | 48.23 | 43.13 | 1,104 | 1.53 | 0.26 | 60.4 |
| 4/29/2015 11:54:29 | 48.56 | 43.46 | 1,147 | 1.54 | 0.26 | 62.7 |
| 4/29/2015 11:54:29 | 48.88 | 43.78 | 1,124 | 1.59 | 0.26 | 61.5 |
| 4/29/2015 11:54:30 | 49.21 | 44.11 | 1,124 | 1.59 | 0.26 | 61.5 |
| 4/29/2015 11:54:30 | 49.54 | 44.44 | 1,089 | 1.60 | 0.26 | 59.5 |
| 4/29/2015 11:54:30 | 49.87 | 44.77 | 1,030 | 1.62 | 0.26 | 56.3 |
| 4/29/2015 11:54:31 | 50.20 | 45.10 | 1,030 | 1.66 | 0.26 | 56.3 |
| 4/29/2015 11:54:31 | 50.53 | 45.43 | 993 | 1.64 | 0.26 | 54.3 |
| 4/29/2015 11:54:32 | 50.85 | 45.75 | 872 | 1.65 | 0.26 | 47.7 |
| 4/29/2015 11:54:32 | 51.18 | 46.08 | 872 | 1.64 | 0.26 | 47.7 |
| 4/29/2015 11:54:33 | 51.51 | 46.41 | 872 | 1.64 | 0.26 | 47.7 |
| 4/29/2015 11:54:33 | 51.84 | 46.74 | 722 | 1.66 | 0.26 | 39.5 |
| 4/29/2015 11:54:34 | 52.17 | 47.07 | 667 | 1.65 | 0.25 | 36.5 |
| 4/29/2015 11:54:34 | 52.49 | 47.39 | 608 | 1.66 | 0.26 | 33.3 |
| 4/29/2015 11:54:53 | 52.82 | 47.72 | 15 | 1.66 | 1.30 | 0.8 |
| 4/29/2015 11:54:55 | 53.15 | 48.05 | 92 | 1.66 | 0.97 | 5.0 |
| 4/29/2015 11:54:55 | 53.48 | 48.38 | 199 | 1.66 | 1.11 | 10.9 |
| 4/29/2015 11:54:56 | 53.81 | 48.71 | 321 | 1.64 | 0.98 | 17.5 |
| 4/29/2015 11:54:56 | 54.13 | 49.03 | 321 | 1.66 | 0.88 | 17.5 |
| 4/29/2015 11:54:57 | 54.46 | 49.36 | 452 | 1.66 | 1.08 | 24.7 |
| 4/29/2015 11:54:58 | 54.79 | 49.69 | 500 | 1.67 | 1.09 | 27.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:54:58 | 55.12 | 50.02 | 600 | 1.66 | 1.20 | 32.8 |
| 4/29/2015 | 11:54:59 | 55.45 | 50.35 | 600 | 1.65 | 1.16 | 32.8 |
| 4/29/2015 | 11:55:00 | 55.77 | 50.67 | 602 | 1.67 | 1.24 | 32.9 |
| 4/29/2015 | 11:55:32 | 56.10 | 51.00 | 0 | 1.55 | 1.12 | 0.0 |
| 4/29/2015 | 11:55:33 | 56.43 | 51.33 | 142 | 1.66 | 1.11 | 7.8 |
| 4/29/2015 | 11:55:34 | 56.76 | 51.66 | 319 | 1.57 | 1.22 | 17.5 |
| 4/29/2015 | 11:55:34 | 57.09 | 51.99 | 319 | 1.55 | 1.21 | 17.5 |
| 4/29/2015 | 11:55:35 | 57.41 | 52.31 | 439 | 1.61 | 1.25 | 24.0 |
| 4/29/2015 | 11:55:36 | 57.74 | 52.64 | 392 | 1.64 | 1.47 | 21.5 |
| 4/29/2015 | 11:55:45 | 58.07 | 52.97 | 78 | 1.66 | 1.24 | 4.3 |
| 4/29/2015 | 11:56:28 | 58.40 | 53.30 | 0 | 1.62 | 1.14 | 0.0 |
| 4/29/2015 | 11:56:35 | 58.73 | 53.63 | 49 | 1.69 | 1.19 | 2.7 |
| 4/29/2015 | 11:56:42 | 59.06 | 53.96 | 51 | 1.66 | 1.15 | 2.8 |
| 4/29/2015 | 11:56:48 | 59.38 | 54.28 | 57 | 1.64 | 1.17 | 3.1 |
| 4/29/2015 | 11:56:53 | 59.71 | 54.61 | 66 | 1.66 | 1.17 | 3.6 |
| 4/29/2015 | 11:56:55 | 59.84 | 54.74 | 71 | 1.64 | 1.23 | 3.9 |

## K233 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 11:52:53

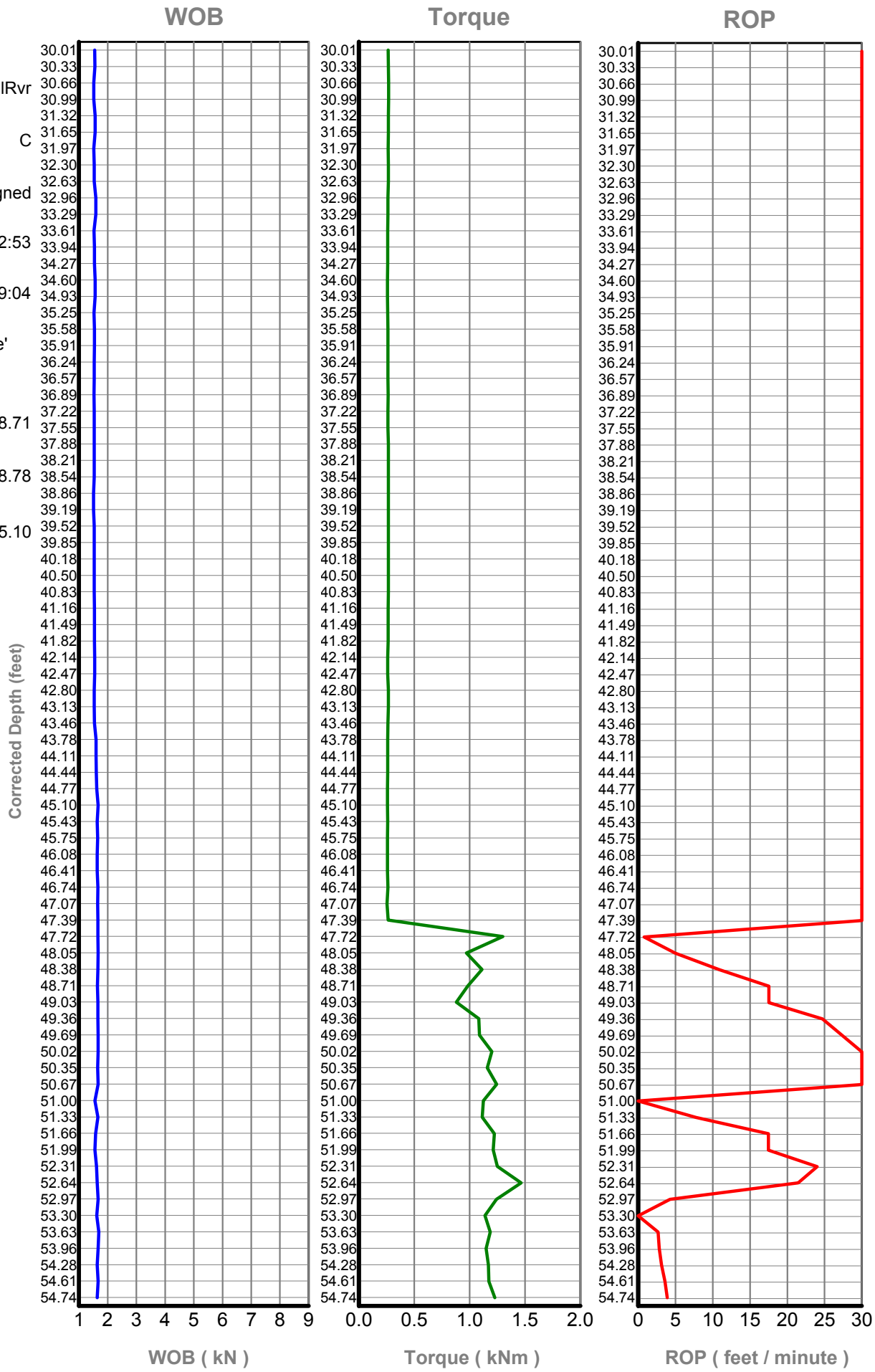
**End Date:**
4/29/2015 11:59:04

**Operator Note:**
'5.1 5.5 c Auto Complete'

**Northing:**
361,628.71

**Easting:**
245,358.78

**Tide (feet):**
5.10



## Hole: K234 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 12:09:17 | 35.11 | 30.21 | 1,108 | 1.59 | 0.27 | 60.6 |
| 4/29/2015 12:09:18 | 35.43 | 30.53 | 1,108 | 1.59 | 0.27 | 60.6 |
| 4/29/2015 12:09:18 | 35.76 | 30.86 | 1,111 | 1.55 | 0.26 | 60.7 |
| 4/29/2015 12:09:18 | 36.09 | 31.19 | 1,115 | 1.57 | 0.26 | 61.0 |
| 4/29/2015 12:09:19 | 36.42 | 31.52 | 1,115 | 1.57 | 0.26 | 61.0 |
| 4/29/2015 12:09:19 | 36.75 | 31.85 | 1,130 | 1.55 | 0.26 | 61.8 |
| 4/29/2015 12:09:19 | 37.07 | 32.17 | 1,130 | 1.55 | 0.26 | 61.8 |
| 4/29/2015 12:09:19 | 37.40 | 32.50 | 1,148 | 1.53 | 0.26 | 62.8 |
| 4/29/2015 12:09:20 | 37.73 | 32.83 | 1,137 | 1.54 | 0.27 | 62.2 |
| 4/29/2015 12:09:20 | 38.06 | 33.16 | 1,137 | 1.54 | 0.27 | 62.2 |
| 4/29/2015 12:09:20 | 38.39 | 33.49 | 1,144 | 1.53 | 0.26 | 62.6 |
| 4/29/2015 12:09:21 | 38.71 | 33.81 | 1,144 | 1.53 | 0.26 | 62.6 |
| 4/29/2015 12:09:21 | 39.04 | 34.14 | 1,162 | 1.55 | 0.26 | 63.5 |
| 4/29/2015 12:09:22 | 39.37 | 34.47 | 1,149 | 1.53 | 0.26 | 62.8 |
| 4/29/2015 12:09:22 | 39.70 | 34.80 | 1,149 | 1.53 | 0.26 | 62.8 |
| 4/29/2015 12:09:22 | 40.03 | 35.13 | 1,131 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 12:09:23 | 40.35 | 35.45 | 1,131 | 1.53 | 0.26 | 61.8 |
| 4/29/2015 12:09:23 | 40.68 | 35.78 | 1,139 | 1.49 | 0.26 | 62.3 |
| 4/29/2015 12:09:23 | 41.01 | 36.11 | 1,143 | 1.53 | 0.26 | 62.5 |
| 4/29/2015 12:09:24 | 41.34 | 36.44 | 1,143 | 1.53 | 0.26 | 62.5 |
| 4/29/2015 12:09:24 | 41.67 | 36.77 | 1,104 | 1.54 | 0.26 | 60.4 |
| 4/29/2015 12:09:24 | 41.99 | 37.09 | 1,104 | 1.54 | 0.26 | 60.4 |
| 4/29/2015 12:09:24 | 42.32 | 37.42 | 1,118 | 1.54 | 0.26 | 61.2 |
| 4/29/2015 12:09:25 | 42.65 | 37.75 | 1,118 | 1.55 | 0.26 | 61.2 |
| 4/29/2015 12:09:25 | 42.98 | 38.08 | 1,118 | 1.55 | 0.26 | 61.2 |
| 4/29/2015 12:09:25 | 43.31 | 38.41 | 1,156 | 1.52 | 0.26 | 63.2 |
| 4/29/2015 12:09:26 | 43.64 | 38.74 | 1,156 | 1.52 | 0.26 | 63.2 |
| 4/29/2015 12:09:26 | 43.96 | 39.06 | 1,160 | 1.52 | 0.26 | 63.5 |
| 4/29/2015 12:09:26 | 44.29 | 39.39 | 1,152 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 12:09:27 | 44.62 | 39.72 | 1,152 | 1.51 | 0.26 | 63.0 |
| 4/29/2015 12:09:27 | 44.95 | 40.05 | 1,173 | 1.53 | 0.26 | 64.1 |
| 4/29/2015 12:09:27 | 45.28 | 40.38 | 1,173 | 1.53 | 0.26 | 64.1 |
| 4/29/2015 12:09:27 | 45.60 | 40.70 | 1,159 | 1.54 | 0.26 | 63.4 |
| 4/29/2015 12:09:28 | 45.93 | 41.03 | 1,147 | 1.53 | 0.25 | 62.7 |
| 4/29/2015 12:09:29 | 46.26 | 41.36 | 1,147 | 1.53 | 0.25 | 62.7 |
| 4/29/2015 12:09:28 | 46.59 | 41.69 | 1,111 | 1.54 | 0.26 | 60.7 |
| 4/29/2015 12:09:29 | 46.92 | 42.02 | 1,111 | 1.54 | 0.26 | 60.7 |
| 4/29/2015 12:09:29 | 47.24 | 42.34 | 1,111 | 1.52 | 0.26 | 60.7 |
| 4/29/2015 12:09:29 | 47.57 | 42.67 | 1,114 | 1.59 | 0.25 | 60.9 |
| 4/29/2015 12:09:30 | 47.90 | 43.00 | 1,114 | 1.59 | 0.25 | 60.9 |
| 4/29/2015 12:09:30 | 48.23 | 43.33 | 1,114 | 1.62 | 0.25 | 60.9 |
| 4/29/2015 12:09:30 | 48.56 | 43.66 | 1,092 | 1.62 | 0.26 | 59.7 |
| 4/29/2015 12:09:31 | 48.88 | 43.98 | 1,092 | 1.62 | 0.26 | 59.7 |
| 4/29/2015 12:09:31 | 49.21 | 44.31 | 1,092 | 1.60 | 0.26 | 59.7 |
| 4/29/2015 12:09:31 | 49.54 | 44.64 | 1,057 | 1.62 | 0.26 | 57.8 |
| 4/29/2015 12:09:32 | 49.87 | 44.97 | 1,001 | 1.61 | 0.26 | 54.8 |
| 4/29/2015 12:09:33 | 50.20 | 45.30 | 1,001 | 1.61 | 0.26 | 54.8 |
| 4/29/2015 12:09:33 | 50.53 | 45.63 | 976 | 1.64 | 0.26 | 53.4 |
| 4/29/2015 12:09:33 | 50.85 | 45.95 | 920 | 1.64 | 0.26 | 50.3 |
| 4/29/2015 12:09:34 | 51.18 | 46.28 | 876 | 1.64 | 0.26 | 47.9 |
| 4/29/2015 12:09:34 | 51.51 | 46.61 | 826 | 1.64 | 0.26 | 45.2 |
| 4/29/2015 12:09:35 | 51.84 | 46.94 | 801 | 1.65 | 0.26 | 43.8 |
| 4/29/2015 12:09:35 | 52.17 | 47.27 | 778 | 1.64 | 0.26 | 42.6 |
| 4/29/2015 12:09:36 | 52.49 | 47.59 | 745 | 1.64 | 0.26 | 40.7 |
| 4/29/2015 12:10:00 | 52.82 | 47.92 | 57 | 1.59 | 1.02 | 3.1 |
| 4/29/2015 12:10:01 | 53.15 | 48.25 | 188 | 1.66 | 1.04 | 10.3 |
| 4/29/2015 12:10:02 | 53.48 | 48.58 | 299 | 1.62 | 1.07 | 16.4 |
| 4/29/2015 12:10:03 | 53.81 | 48.91 | 409 | 1.66 | 1.18 | 22.4 |
| 4/29/2015 12:10:03 | 54.13 | 49.23 | 461 | 1.66 | 1.11 | 25.2 |
| 4/29/2015 12:10:04 | 54.46 | 49.56 | 461 | 1.66 | 0.97 | 25.2 |
| 4/29/2015 12:10:04 | 54.79 | 49.89 | 547 | 1.65 | 0.84 | 29.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 12:10:05 | 55.12 | 50.22 | 622 | 1.64 | 0.83 | 34.0 |
| 4/29/2015 | 12:10:05 | 55.45 | 50.55 | 649 | 1.67 | 0.84 | 35.5 |
| 4/29/2015 | 12:10:06 | 55.77 | 50.87 | 661 | 1.67 | 0.80 | 36.1 |
| 4/29/2015 | 12:10:42 | 56.10 | 51.20 | 0 | 1.59 | 0.78 | 0.0 |
| 4/29/2015 | 12:10:43 | 56.43 | 51.53 | 103 | 1.66 | 0.83 | 5.6 |
| 4/29/2015 | 12:10:43 | 56.76 | 51.86 | 103 | 1.64 | 0.92 | 5.6 |
| 4/29/2015 | 12:10:44 | 57.09 | 52.19 | 336 | 1.62 | 1.10 | 18.4 |
| 4/29/2015 | 12:10:46 | 57.41 | 52.51 | 361 | 1.60 | 1.09 | 19.7 |
| 4/29/2015 | 12:10:50 | 57.74 | 52.84 | 89 | 1.67 | 1.16 | 4.9 |
| 4/29/2015 | 12:10:51 | 58.07 | 53.17 | 225 | 1.64 | 1.23 | 12.3 |
| 4/29/2015 | 12:10:59 | 58.40 | 53.50 | 55 | 1.66 | 1.35 | 3.0 |
| 4/29/2015 | 12:11:02 | 58.73 | 53.83 | 137 | 1.64 | 1.32 | 7.5 |
| 4/29/2015 | 12:11:02 | 59.06 | 54.16 | 215 | 1.64 | 1.09 | 11.8 |
| 4/29/2015 | 12:11:03 | 59.38 | 54.48 | 274 | 1.65 | 1.07 | 15.0 |
| 4/29/2015 | 12:11:04 | 59.71 | 54.81 | 429 | 1.62 | 1.34 | 23.4 |
| 4/29/2015 | 12:11:08 | 60.04 | 55.14 | 85 | 1.59 | 1.14 | 4.7 |
| 4/29/2015 | 12:11:08 | 60.30 | 55.40 | 80 | 1.71 | 1.33 | 4.4 |

## K234 - Summary

**Pattern Number:**
AreaK_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 12:08:15

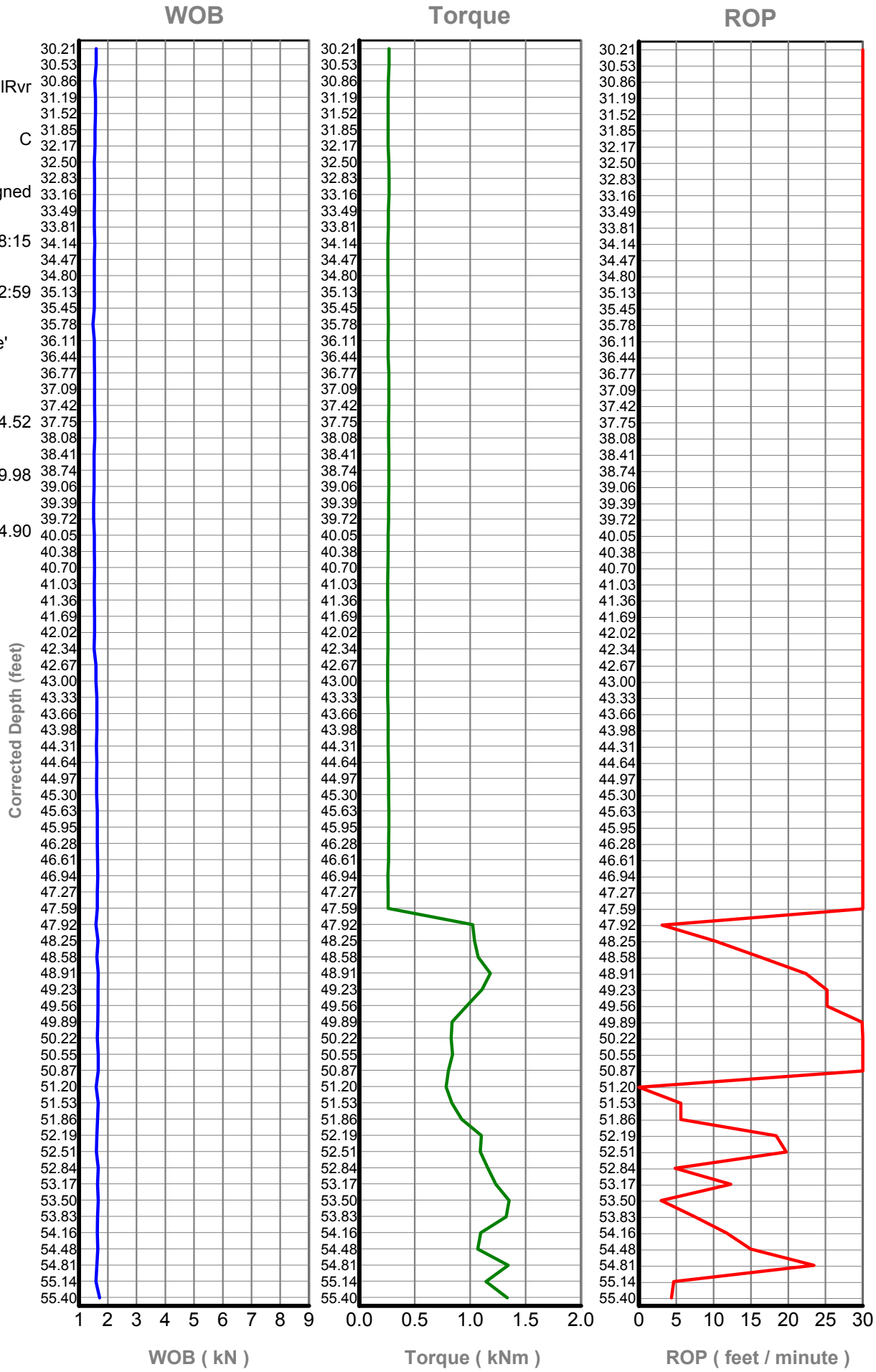
**End Date:**
4/29/2015 12:12:59

**Operator Note:**
'4.9 5.2 c Auto Complete'

**Northing:**
361,684.52

**Easting:**
245,409.98

**Tide (feet):**
4.90



## Hole: K24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 16:12:44 | 31.17 | 30.17 | 1,218 | 0.25 | 0.37 | 66.6 |
| 4/29/2015 16:12:44 | 31.50 | 30.50 | 1,218 | 0.25 | 0.36 | 66.6 |
| 4/29/2015 16:12:45 | 31.82 | 30.82 | 1,242 | 0.25 | 0.37 | 67.9 |
| 4/29/2015 16:12:46 | 32.15 | 31.15 | 1,242 | 0.25 | 0.37 | 67.9 |
| 4/29/2015 16:12:46 | 32.48 | 31.48 | 1,223 | 0.25 | 0.38 | 66.9 |
| 4/29/2015 16:12:46 | 32.81 | 31.81 | 1,223 | 0.25 | 0.38 | 66.9 |
| 4/29/2015 16:12:46 | 33.14 | 32.14 | 1,228 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:47 | 33.46 | 32.46 | 1,228 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:47 | 33.79 | 32.79 | 1,228 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:47 | 34.12 | 33.12 | 1,228 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:47 | 34.45 | 33.45 | 1,223 | 0.25 | 0.36 | 66.9 |
| 4/29/2015 16:12:48 | 34.78 | 33.78 | 1,219 | 0.16 | 0.37 | 66.6 |
| 4/29/2015 16:12:48 | 35.11 | 34.11 | 1,219 | 0.16 | 0.37 | 66.6 |
| 4/29/2015 16:12:48 | 35.43 | 34.43 | 1,217 | 0.25 | 0.36 | 66.6 |
| 4/29/2015 16:12:49 | 35.76 | 34.76 | 1,217 | 0.25 | 0.36 | 66.6 |
| 4/29/2015 16:12:49 | 36.09 | 35.09 | 1,223 | 0.26 | 0.38 | 66.9 |
| 4/29/2015 16:12:49 | 36.42 | 35.42 | 1,223 | 0.26 | 0.38 | 66.9 |
| 4/29/2015 16:12:49 | 36.75 | 35.75 | 1,215 | 0.25 | 0.36 | 66.4 |
| 4/29/2015 16:12:50 | 37.07 | 36.07 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 16:12:50 | 37.40 | 36.40 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 16:12:50 | 37.73 | 36.73 | 1,223 | 0.25 | 0.37 | 66.9 |
| 4/29/2015 16:12:51 | 38.06 | 37.06 | 1,223 | 0.25 | 0.37 | 66.9 |
| 4/29/2015 16:12:51 | 38.39 | 37.39 | 1,232 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:12:51 | 38.71 | 37.71 | 1,232 | 0.25 | 0.37 | 67.4 |
| 4/29/2015 16:12:51 | 39.04 | 38.04 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 16:12:52 | 39.37 | 38.37 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 16:12:52 | 39.70 | 38.70 | 1,221 | 0.25 | 0.36 | 66.8 |
| 4/29/2015 16:12:52 | 40.03 | 39.03 | 1,231 | 0.25 | 0.37 | 67.3 |
| 4/29/2015 16:12:53 | 40.35 | 39.35 | 1,231 | 0.25 | 0.37 | 67.3 |
| 4/29/2015 16:12:53 | 40.68 | 39.68 | 1,226 | 0.25 | 0.36 | 67.0 |
| 4/29/2015 16:12:53 | 41.01 | 40.01 | 1,226 | 0.25 | 0.36 | 67.0 |
| 4/29/2015 16:12:53 | 41.34 | 40.34 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:54 | 41.67 | 40.67 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:54 | 41.99 | 40.99 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:54 | 42.32 | 41.32 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:54 | 42.65 | 41.65 | 1,231 | 0.25 | 0.36 | 67.3 |
| 4/29/2015 16:12:55 | 42.98 | 41.98 | 1,231 | 0.25 | 0.38 | 67.3 |
| 4/29/2015 16:12:55 | 43.31 | 42.31 | 1,231 | 0.25 | 0.38 | 67.3 |
| 4/29/2015 16:12:55 | 43.64 | 42.64 | 1,237 | 0.25 | 0.36 | 67.7 |
| 4/29/2015 16:12:56 | 43.96 | 42.96 | 1,237 | 0.25 | 0.36 | 67.7 |
| 4/29/2015 16:12:56 | 44.29 | 43.29 | 1,230 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:57 | 44.62 | 43.62 | 1,230 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 16:12:57 | 44.95 | 43.95 | 1,198 | 0.26 | 0.37 | 65.5 |
| 4/29/2015 16:12:57 | 45.28 | 44.28 | 1,198 | 0.26 | 0.37 | 65.5 |
| 4/29/2015 16:12:57 | 45.60 | 44.60 | 1,198 | 0.25 | 0.37 | 65.5 |
| 4/29/2015 16:12:58 | 45.93 | 44.93 | 1,228 | 0.22 | 0.48 | 67.1 |
| 4/29/2015 16:13:20 | 46.26 | 45.26 | 52 | 2.97 | 0.46 | 2.8 |
| 4/29/2015 16:13:24 | 46.59 | 45.59 | 95 | 3.45 | 0.46 | 5.2 |
| 4/29/2015 16:13:29 | 46.92 | 45.92 | 66 | 3.08 | 0.46 | 3.6 |
| 4/29/2015 16:13:33 | 47.24 | 46.24 | 90 | 3.41 | 0.46 | 4.9 |
| 4/29/2015 16:13:41 | 47.57 | 46.57 | 43 | 3.42 | 0.45 | 2.4 |
| 4/29/2015 16:13:49 | 47.90 | 46.90 | 43 | 3.09 | 0.47 | 2.4 |
| 4/29/2015 16:13:57 | 48.23 | 47.23 | 40 | 2.68 | 0.46 | 2.2 |
| 4/29/2015 16:13:59 | 48.31 | 47.31 | 46 | 3.09 | 0.47 | 2.5 |

## K24 - Summary

**Pattern Number:**
AreaK_Lane14-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 16:10:44

**End Date:**
4/29/2015 16:16:41

**Operator Note:**
'1 1.2 b Rock'

**Northing:**
361,874.14

**Easting:**
244,480.12

**Tide (feet):**
1.00



## Hole: K25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 9:46:17 | 36.42 | 30.02 | 1,197 | 0.26 | 0.37 | 65.4 |
| 4/29/2015 9:46:17 | 36.75 | 30.35 | 1,203 | 0.26 | 0.37 | 65.8 |
| 4/29/2015 9:46:17 | 37.07 | 30.67 | 1,203 | 0.26 | 0.37 | 65.8 |
| 4/29/2015 9:46:17 | 37.40 | 31.00 | 1,206 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:46:18 | 37.73 | 31.33 | 1,206 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:46:18 | 38.06 | 31.66 | 1,211 | 0.26 | 0.38 | 66.2 |
| 4/29/2015 9:46:18 | 38.39 | 31.99 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:46:19 | 38.71 | 32.31 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:46:19 | 39.04 | 32.64 | 1,220 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 9:46:19 | 39.37 | 32.97 | 1,220 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 9:46:19 | 39.70 | 33.30 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 9:46:20 | 40.03 | 33.63 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 9:46:20 | 40.35 | 33.95 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 9:46:20 | 40.68 | 34.28 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 9:46:20 | 41.01 | 34.61 | 1,223 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 9:46:21 | 41.34 | 34.94 | 1,229 | 0.26 | 0.38 | 67.2 |
| 4/29/2015 9:46:22 | 41.67 | 35.27 | 1,229 | 0.26 | 0.38 | 67.2 |
| 4/29/2015 9:46:22 | 41.99 | 35.59 | 1,211 | 0.26 | 0.37 | 66.2 |
| 4/29/2015 9:46:22 | 42.32 | 35.92 | 1,211 | 0.26 | 0.37 | 66.2 |
| 4/29/2015 9:46:22 | 42.65 | 36.25 | 1,220 | 0.26 | 0.36 | 66.7 |
| 4/29/2015 9:46:23 | 42.98 | 36.58 | 1,220 | 0.26 | 0.36 | 66.7 |
| 4/29/2015 9:46:23 | 43.31 | 36.91 | 1,213 | 0.26 | 0.37 | 66.4 |
| 4/29/2015 9:46:23 | 43.64 | 37.24 | 1,213 | 0.26 | 0.37 | 66.4 |
| 4/29/2015 9:46:23 | 43.96 | 37.56 | 1,226 | 0.26 | 0.37 | 67.1 |
| 4/29/2015 9:46:24 | 44.29 | 37.89 | 1,221 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 9:46:24 | 44.62 | 38.22 | 1,221 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 9:46:24 | 44.95 | 38.55 | 1,232 | 0.26 | 0.36 | 67.4 |
| 4/29/2015 9:46:25 | 45.28 | 38.88 | 1,232 | 0.26 | 0.36 | 67.4 |
| 4/29/2015 9:46:25 | 45.60 | 39.20 | 1,226 | 0.26 | 0.38 | 67.0 |
| 4/29/2015 9:46:25 | 45.93 | 39.53 | 1,226 | 0.26 | 0.38 | 67.0 |
| 4/29/2015 9:46:25 | 46.26 | 39.86 | 1,231 | 0.26 | 0.36 | 67.3 |
| 4/29/2015 9:46:26 | 46.59 | 40.19 | 1,212 | 0.26 | 0.36 | 66.2 |
| 4/29/2015 9:46:26 | 46.92 | 40.52 | 1,212 | 0.26 | 0.36 | 66.2 |
| 4/29/2015 9:46:26 | 47.24 | 40.84 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 9:46:27 | 47.57 | 41.17 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 9:46:27 | 47.90 | 41.50 | 1,228 | 0.26 | 0.36 | 67.1 |
| 4/29/2015 9:46:27 | 48.23 | 41.83 | 1,228 | 0.26 | 0.36 | 67.1 |
| 4/29/2015 9:46:27 | 48.56 | 42.16 | 1,232 | 0.26 | 0.37 | 67.4 |
| 4/29/2015 9:46:28 | 48.88 | 42.48 | 1,232 | 0.26 | 0.37 | 67.4 |
| 4/29/2015 9:46:28 | 49.21 | 42.81 | 1,230 | 0.26 | 0.38 | 67.2 |
| 4/29/2015 9:46:28 | 49.54 | 43.14 | 1,246 | 0.26 | 0.37 | 68.2 |
| 4/29/2015 9:46:29 | 49.87 | 43.47 | 1,246 | 0.26 | 0.37 | 68.2 |
| 4/29/2015 9:46:29 | 50.20 | 43.80 | 1,231 | 0.26 | 0.38 | 67.3 |
| 4/29/2015 9:46:30 | 50.53 | 44.13 | 1,231 | 0.26 | 0.38 | 67.3 |
| 4/29/2015 9:46:29 | 50.85 | 44.45 | 1,203 | 0.26 | 0.36 | 65.8 |
| 4/29/2015 9:46:30 | 51.18 | 44.78 | 1,203 | 0.26 | 0.36 | 65.8 |
| 4/29/2015 9:46:30 | 51.51 | 45.11 | 1,203 | 0.26 | 0.37 | 65.8 |
| 4/29/2015 9:46:30 | 51.84 | 45.44 | 1,203 | 0.26 | 0.37 | 65.8 |
| 4/29/2015 9:46:30 | 52.17 | 45.77 | 1,217 | 0.26 | 0.37 | 66.6 |
| 4/29/2015 9:46:31 | 52.49 | 46.09 | 1,200 | 0.24 | 0.47 | 65.6 |
| 4/29/2015 9:46:54 | 52.82 | 46.42 | 86 | 3.22 | 0.46 | 4.7 |
| 4/29/2015 9:47:00 | 53.15 | 46.75 | 52 | 3.13 | 0.46 | 2.8 |
| 4/29/2015 9:47:07 | 53.48 | 47.08 | 46 | 2.98 | 0.46 | 2.5 |
| 4/29/2015 9:47:16 | 53.81 | 47.41 | 41 | 2.80 | 0.47 | 2.2 |

## K25 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:44:23

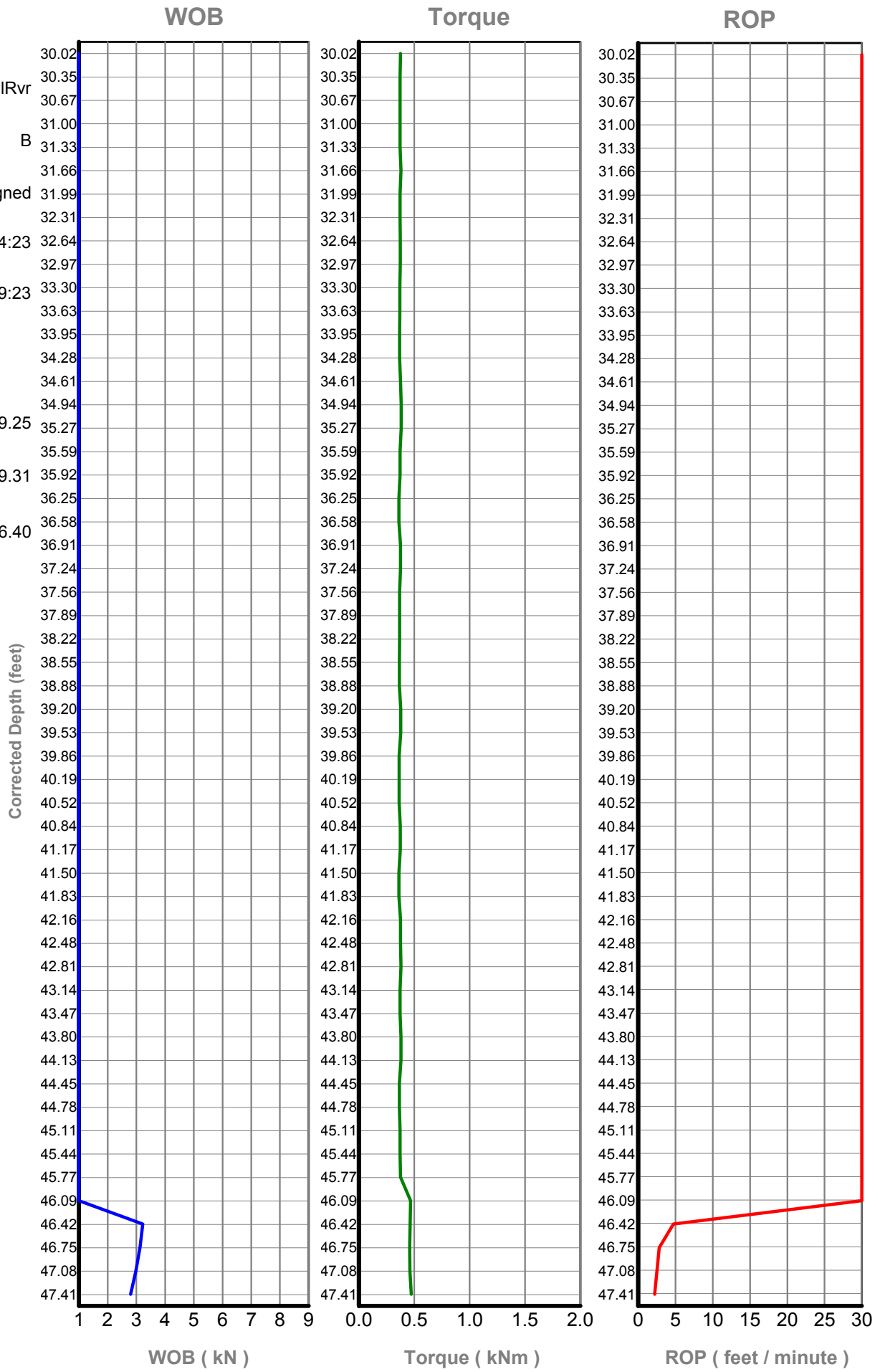
**End Date:**
4/29/2015 9:49:23

**Operator Note:**
'6.4 6.3 b Rock'

**Northing:**
362,129.25

**Easting:**
244,789.31

**Tide (feet):**
6.40



## Hole: K26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 9:58:54 | 36.42 | 30.02 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:58:55 | 36.75 | 30.35 | 1,204 | 0.26 | 0.37 | 65.9 |
| 4/29/2015 9:58:55 | 37.07 | 30.67 | 1,197 | 0.26 | 0.35 | 65.5 |
| 4/29/2015 9:58:55 | 37.40 | 31.00 | 1,197 | 0.26 | 0.35 | 65.5 |
| 4/29/2015 9:58:55 | 37.73 | 31.33 | 1,200 | 0.31 | 0.38 | 65.6 |
| 4/29/2015 9:58:56 | 38.06 | 31.66 | 1,200 | 0.31 | 0.38 | 65.6 |
| 4/29/2015 9:58:56 | 38.39 | 31.99 | 1,221 | 0.27 | 0.38 | 66.8 |
| 4/29/2015 9:58:56 | 38.71 | 32.31 | 1,221 | 0.27 | 0.38 | 66.8 |
| 4/29/2015 9:58:56 | 39.04 | 32.64 | 1,208 | 0.41 | 0.37 | 66.1 |
| 4/29/2015 9:58:57 | 39.37 | 32.97 | 1,209 | 0.26 | 0.37 | 66.1 |
| 4/29/2015 9:58:57 | 39.70 | 33.30 | 1,209 | 0.26 | 0.37 | 66.1 |
| 4/29/2015 9:58:57 | 40.03 | 33.63 | 1,220 | 0.28 | 0.38 | 66.7 |
| 4/29/2015 9:58:58 | 40.35 | 33.95 | 1,220 | 0.28 | 0.38 | 66.7 |
| 4/29/2015 9:58:58 | 40.68 | 34.28 | 1,192 | 0.27 | 0.36 | 65.2 |
| 4/29/2015 9:58:58 | 41.01 | 34.61 | 1,192 | 0.27 | 0.36 | 65.2 |
| 4/29/2015 9:58:58 | 41.34 | 34.94 | 1,192 | 0.27 | 0.37 | 65.2 |
| 4/29/2015 9:58:59 | 41.67 | 35.27 | 1,200 | 0.28 | 0.37 | 65.6 |
| 4/29/2015 9:58:59 | 41.99 | 35.59 | 1,200 | 0.28 | 0.37 | 65.6 |
| 4/29/2015 9:58:59 | 42.32 | 35.92 | 1,215 | 0.27 | 0.36 | 66.4 |
| 4/29/2015 9:59:00 | 42.65 | 36.25 | 1,215 | 0.27 | 0.36 | 66.4 |
| 4/29/2015 9:59:00 | 42.98 | 36.58 | 1,220 | 0.27 | 0.36 | 66.7 |
| 4/29/2015 9:59:01 | 43.31 | 36.91 | 1,220 | 0.27 | 0.36 | 66.7 |
| 4/29/2015 9:59:00 | 43.64 | 37.24 | 1,198 | 0.28 | 0.37 | 65.5 |
| 4/29/2015 9:59:01 | 43.96 | 37.56 | 1,198 | 0.28 | 0.37 | 65.5 |
| 4/29/2015 9:59:01 | 44.29 | 37.89 | 1,224 | 0.28 | 0.37 | 66.9 |
| 4/29/2015 9:59:01 | 44.62 | 38.22 | 1,232 | 0.29 | 0.36 | 67.4 |
| 4/29/2015 9:59:02 | 44.95 | 38.55 | 1,232 | 0.29 | 0.36 | 67.4 |
| 4/29/2015 9:59:02 | 45.28 | 38.88 | 1,228 | 0.27 | 0.37 | 67.1 |
| 4/29/2015 9:59:03 | 45.60 | 39.20 | 1,228 | 0.27 | 0.37 | 67.1 |
| 4/29/2015 9:59:03 | 45.93 | 39.53 | 1,228 | 0.27 | 0.34 | 67.1 |
| 4/29/2015 9:59:03 | 46.26 | 39.86 | 1,228 | 0.27 | 0.34 | 67.1 |
| 4/29/2015 9:59:03 | 46.59 | 40.19 | 1,241 | 0.27 | 0.37 | 67.9 |
| 4/29/2015 9:59:04 | 46.92 | 40.52 | 1,241 | 0.27 | 0.37 | 67.9 |
| 4/29/2015 9:59:04 | 47.24 | 40.84 | 1,257 | 0.31 | 0.37 | 68.7 |
| 4/29/2015 9:59:04 | 47.57 | 41.17 | 1,211 | 0.29 | 0.36 | 66.2 |
| 4/29/2015 9:59:05 | 47.90 | 41.50 | 1,211 | 0.29 | 0.36 | 66.2 |
| 4/29/2015 9:59:05 | 48.23 | 41.83 | 1,208 | 0.27 | 0.37 | 66.1 |
| 4/29/2015 9:59:05 | 48.56 | 42.16 | 1,208 | 0.27 | 0.37 | 66.1 |
| 4/29/2015 9:59:05 | 48.88 | 42.48 | 1,208 | 0.27 | 0.37 | 66.0 |
| 4/29/2015 9:59:06 | 49.21 | 42.81 | 1,208 | 0.27 | 0.37 | 66.0 |
| 4/29/2015 9:59:06 | 49.54 | 43.14 | 1,208 | 0.27 | 0.38 | 66.0 |
| 4/29/2015 9:59:06 | 49.87 | 43.47 | 1,208 | 0.28 | 0.38 | 66.0 |
| 4/29/2015 9:59:07 | 50.20 | 43.80 | 1,208 | 0.28 | 0.38 | 66.0 |
| 4/29/2015 9:59:07 | 50.53 | 44.13 | 1,199 | 0.28 | 0.37 | 65.6 |
| 4/29/2015 9:59:07 | 50.85 | 44.45 | 1,199 | 0.28 | 0.37 | 65.6 |
| 4/29/2015 9:59:07 | 51.18 | 44.78 | 1,235 | 0.27 | 0.38 | 67.5 |
| 4/29/2015 9:59:08 | 51.51 | 45.11 | 1,235 | 0.27 | 0.38 | 67.5 |
| 4/29/2015 9:59:17 | 51.84 | 45.44 | 0 | 2.02 | 0.37 | 0.0 |
| 4/29/2015 9:59:18 | 52.17 | 45.77 | 121 | 5.59 | 0.47 | 6.6 |
| 4/29/2015 9:59:20 | 52.49 | 46.09 | 257 | 3.67 | 0.46 | 14.0 |
| 4/29/2015 9:59:29 | 52.82 | 46.42 | 81 | 3.70 | 0.45 | 4.4 |
| 4/29/2015 9:59:35 | 53.15 | 46.75 | 46 | 3.05 | 0.46 | 2.5 |
| 4/29/2015 9:59:41 | 53.48 | 47.08 | 60 | 3.48 | 0.46 | 3.3 |
| 4/29/2015 9:59:50 | 53.81 | 47.41 | 43 | 2.74 | 0.45 | 2.4 |
| 4/29/2015 9:59:56 | 54.08 | 47.68 | 49 | 3.08 | 0.46 | 2.7 |

## K26 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:55:49

**End Date:**
4/29/2015 10:01:15

**Operator Note:**
'6.4 6.4 b Rock'

**Northing:**
362,183.16

**Easting:**
244,839.03

**Tide (feet):**
6.40



## Hole: K27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:12:25 | 36.42 | 30.02 | 1,223 | 0.24 | 0.37 | 66.9 |
| 4/29/2015 10:12:25 | 36.75 | 30.35 | 1,220 | 0.27 | 0.36 | 66.7 |
| 4/29/2015 10:12:25 | 37.07 | 30.67 | 1,220 | 0.27 | 0.36 | 66.7 |
| 4/29/2015 10:12:25 | 37.40 | 31.00 | 1,228 | 0.28 | 0.38 | 67.2 |
| 4/29/2015 10:12:26 | 37.73 | 31.33 | 1,228 | 0.28 | 0.38 | 67.2 |
| 4/29/2015 10:12:26 | 38.06 | 31.66 | 1,219 | 0.27 | 0.38 | 66.6 |
| 4/29/2015 10:12:26 | 38.39 | 31.99 | 1,219 | 0.29 | 0.37 | 66.6 |
| 4/29/2015 10:12:27 | 38.71 | 32.31 | 1,219 | 0.29 | 0.37 | 66.6 |
| 4/29/2015 10:12:27 | 39.04 | 32.64 | 1,230 | 0.24 | 0.37 | 67.3 |
| 4/29/2015 10:12:27 | 39.37 | 32.97 | 1,230 | 0.24 | 0.37 | 67.3 |
| 4/29/2015 10:12:27 | 39.70 | 33.30 | 1,244 | 0.27 | 0.37 | 68.0 |
| 4/29/2015 10:12:28 | 40.03 | 33.63 | 1,244 | 0.27 | 0.37 | 68.0 |
| 4/29/2015 10:12:28 | 40.35 | 33.95 | 1,245 | 0.24 | 0.37 | 68.1 |
| 4/29/2015 10:12:28 | 40.68 | 34.28 | 1,245 | 0.24 | 0.37 | 68.1 |
| 4/29/2015 10:12:28 | 41.01 | 34.61 | 1,247 | 0.31 | 0.36 | 68.2 |
| 4/29/2015 10:12:29 | 41.34 | 34.94 | 1,247 | 0.31 | 0.36 | 68.2 |
| 4/29/2015 10:12:29 | 41.67 | 35.27 | 1,269 | 0.27 | 0.38 | 69.4 |
| 4/29/2015 10:12:29 | 41.99 | 35.59 | 1,271 | 0.27 | 0.36 | 69.5 |
| 4/29/2015 10:12:30 | 42.32 | 35.92 | 1,271 | 0.27 | 0.36 | 69.5 |
| 4/29/2015 10:12:30 | 42.65 | 36.25 | 1,255 | 0.27 | 0.36 | 68.6 |
| 4/29/2015 10:12:30 | 42.98 | 36.58 | 1,255 | 0.27 | 0.36 | 68.6 |
| 4/29/2015 10:12:30 | 43.31 | 36.91 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:12:31 | 43.64 | 37.24 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:12:31 | 43.96 | 37.56 | 1,265 | 0.27 | 0.36 | 69.2 |
| 4/29/2015 10:12:31 | 44.29 | 37.89 | 1,265 | 0.27 | 0.36 | 69.2 |
| 4/29/2015 10:12:31 | 44.62 | 38.22 | 1,258 | 0.27 | 0.35 | 68.8 |
| 4/29/2015 10:12:32 | 44.95 | 38.55 | 1,258 | 0.27 | 0.35 | 68.8 |
| 4/29/2015 10:12:32 | 45.28 | 38.88 | 1,250 | 0.28 | 0.36 | 68.3 |
| 4/29/2015 10:12:32 | 45.60 | 39.20 | 1,269 | -0.01 | 0.36 | 69.4 |
| 4/29/2015 10:12:33 | 45.93 | 39.53 | 1,269 | -0.01 | 0.36 | 69.4 |
| 4/29/2015 10:12:33 | 46.26 | 39.86 | 1,269 | 0.29 | 0.37 | 69.4 |
| 4/29/2015 10:12:33 | 46.59 | 40.19 | 1,269 | 0.29 | 0.37 | 69.4 |
| 4/29/2015 10:12:33 | 46.92 | 40.52 | 1,269 | 0.27 | 0.36 | 69.4 |
| 4/29/2015 10:12:34 | 47.24 | 40.84 | 1,269 | 0.27 | 0.36 | 69.4 |
| 4/29/2015 10:12:34 | 47.57 | 41.17 | 1,275 | 0.31 | 0.36 | 69.7 |
| 4/29/2015 10:12:35 | 47.90 | 41.50 | 1,275 | 0.31 | 0.36 | 69.7 |
| 4/29/2015 10:12:35 | 48.23 | 41.83 | 1,278 | 0.27 | 0.38 | 69.9 |
| 4/29/2015 10:12:35 | 48.56 | 42.16 | 1,278 | 0.27 | 0.38 | 69.9 |
| 4/29/2015 10:12:35 | 48.88 | 42.48 | 1,272 | 0.27 | 0.35 | 69.5 |
| 4/29/2015 10:12:36 | 49.21 | 42.81 | 1,272 | 0.27 | 0.35 | 69.5 |
| 4/29/2015 10:12:36 | 49.54 | 43.14 | 1,269 | 0.27 | 0.36 | 69.4 |
| 4/29/2015 10:12:36 | 49.87 | 43.47 | 1,264 | 0.27 | 0.38 | 69.1 |
| 4/29/2015 10:12:37 | 50.20 | 43.80 | 1,264 | 0.27 | 0.38 | 69.1 |
| 4/29/2015 10:12:37 | 50.53 | 44.13 | 1,269 | 0.28 | 0.36 | 69.4 |
| 4/29/2015 10:12:37 | 50.85 | 44.45 | 1,269 | 0.28 | 0.36 | 69.4 |
| 4/29/2015 10:12:37 | 51.18 | 44.78 | 1,263 | 0.27 | 0.38 | 69.1 |
| 4/29/2015 10:12:38 | 51.51 | 45.11 | 1,263 | 0.27 | 0.38 | 69.1 |
| 4/29/2015 10:12:48 | 51.84 | 45.44 | 0 | 1.93 | 0.36 | 0.0 |
| 4/29/2015 10:12:49 | 52.17 | 45.77 | 69 | 1.96 | 0.42 | 3.8 |
| 4/29/2015 10:12:51 | 52.49 | 46.09 | 260 | 3.45 | 0.46 | 14.2 |
| 4/29/2015 10:12:55 | 52.82 | 46.42 | 0 | 2.04 | 0.38 | 0.0 |
| 4/29/2015 10:12:57 | 53.15 | 46.75 | 109 | 3.59 | 0.44 | 5.9 |
| 4/29/2015 10:13:03 | 53.48 | 47.08 | 50 | 3.07 | 0.44 | 2.7 |
| 4/29/2015 10:13:05 | 53.81 | 47.41 | 103 | 3.45 | 0.46 | 5.6 |
| 4/29/2015 10:13:13 | 54.13 | 47.73 | 0 | 3.14 | 0.47 | 0.0 |
| 4/29/2015 10:13:21 | 54.46 | 48.06 | 47 | 2.85 | 0.47 | 2.5 |
| 4/29/2015 10:13:28 | 54.79 | 48.39 | 48 | 3.18 | 0.46 | 2.6 |
| 4/29/2015 10:13:33 | 55.03 | 48.63 | 47 | 2.89 | 0.47 | 2.6 |

## K27 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:10:42

**End Date:**
4/29/2015 10:15:00

**Operator Note:**
'6.4 6.4 b Rock'

**Northing:**
362,232.59

**Easting:**
244,891.45

**Tide (feet):**
6.40



## Hole: K28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:33:10 | 30.84 | 30.24 | 766 | 1.11 | 0.20 | 41.9 |
| 4/30/2015 5:33:11 | 31.17 | 30.57 | 760 | 1.08 | 0.20 | 41.6 |
| 4/30/2015 5:33:11 | 31.50 | 30.90 | 758 | 1.09 | 0.20 | 41.4 |
| 4/30/2015 5:33:12 | 31.82 | 31.22 | 758 | 1.09 | 0.20 | 41.4 |
| 4/30/2015 5:33:12 | 32.15 | 31.55 | 755 | 1.10 | 0.20 | 41.3 |
| 4/30/2015 5:33:12 | 32.48 | 31.88 | 757 | 1.11 | 0.20 | 41.4 |
| 4/30/2015 5:33:13 | 32.81 | 32.21 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:33:13 | 33.14 | 32.54 | 757 | 1.11 | 0.20 | 41.4 |
| 4/30/2015 5:33:14 | 33.46 | 32.86 | 757 | 1.09 | 0.20 | 41.4 |
| 4/30/2015 5:33:14 | 33.79 | 33.19 | 753 | 1.10 | 0.20 | 41.2 |
| 4/30/2015 5:33:15 | 34.12 | 33.52 | 757 | 1.11 | 0.20 | 41.4 |
| 4/30/2015 5:33:16 | 34.45 | 33.85 | 755 | 1.09 | 0.20 | 41.3 |
| 4/30/2015 5:33:16 | 34.78 | 34.18 | 755 | 1.10 | 0.19 | 41.3 |
| 4/30/2015 5:33:17 | 35.11 | 34.51 | 755 | 1.09 | 0.20 | 41.3 |
| 4/30/2015 5:33:17 | 35.43 | 34.83 | 755 | 1.09 | 0.20 | 41.3 |
| 4/30/2015 5:33:17 | 35.76 | 35.16 | 742 | 1.08 | 0.19 | 40.6 |
| 4/30/2015 5:33:18 | 36.09 | 35.49 | 742 | 1.09 | 0.20 | 40.6 |
| 4/30/2015 5:33:18 | 36.42 | 35.82 | 749 | 1.09 | 0.20 | 40.9 |
| 4/30/2015 5:33:19 | 36.75 | 36.15 | 749 | 1.09 | 0.19 | 40.9 |
| 4/30/2015 5:33:19 | 37.07 | 36.47 | 747 | 1.10 | 0.20 | 40.8 |
| 4/30/2015 5:33:20 | 37.40 | 36.80 | 747 | 1.08 | 0.18 | 40.8 |
| 4/30/2015 5:33:20 | 37.73 | 37.13 | 752 | 1.10 | 0.20 | 41.1 |
| 4/30/2015 5:33:21 | 38.06 | 37.46 | 752 | 1.09 | 0.20 | 41.1 |
| 4/30/2015 5:33:21 | 38.39 | 37.79 | 750 | 1.10 | 0.19 | 41.0 |
| 4/30/2015 5:33:22 | 38.71 | 38.11 | 750 | 1.10 | 0.19 | 41.0 |
| 4/30/2015 5:33:22 | 39.04 | 38.44 | 749 | 1.10 | 0.20 | 41.0 |
| 4/30/2015 5:33:22 | 39.37 | 38.77 | 751 | 1.09 | 0.20 | 41.1 |
| 4/30/2015 5:33:23 | 39.70 | 39.10 | 747 | 1.11 | 0.20 | 40.8 |
| 4/30/2015 5:33:23 | 40.03 | 39.43 | 762 | 1.09 | 0.20 | 41.7 |
| 4/30/2015 5:33:24 | 40.35 | 39.75 | 752 | 1.10 | 0.20 | 41.1 |
| 4/30/2015 5:33:24 | 40.68 | 40.08 | 752 | 1.09 | 0.20 | 41.1 |
| 4/30/2015 5:33:25 | 41.01 | 40.41 | 747 | 1.09 | 0.20 | 40.9 |
| 4/30/2015 5:33:26 | 41.34 | 40.74 | 756 | 1.11 | 0.19 | 41.3 |
| 4/30/2015 5:33:26 | 41.67 | 41.07 | 746 | 1.10 | 0.20 | 40.8 |
| 4/30/2015 5:33:27 | 41.99 | 41.39 | 749 | 1.10 | 0.19 | 40.9 |
| 4/30/2015 5:33:27 | 42.32 | 41.72 | 749 | 1.08 | 0.20 | 40.9 |
| 4/30/2015 5:33:28 | 42.65 | 42.05 | 749 | 1.08 | 0.20 | 40.9 |
| 4/30/2015 5:33:28 | 42.98 | 42.38 | 749 | 1.08 | 0.19 | 40.9 |
| 4/30/2015 5:33:28 | 43.31 | 42.71 | 749 | 1.10 | 0.20 | 40.9 |
| 4/30/2015 5:33:29 | 43.64 | 43.04 | 752 | 1.11 | 0.20 | 41.1 |
| 4/30/2015 5:33:29 | 43.96 | 43.36 | 747 | 1.10 | 0.20 | 40.8 |
| 4/30/2015 5:33:30 | 44.29 | 43.69 | 752 | 1.09 | 0.19 | 41.1 |
| 4/30/2015 5:33:30 | 44.62 | 44.02 | 752 | 1.09 | 0.20 | 41.1 |
| 4/30/2015 5:33:31 | 44.95 | 44.35 | 749 | 1.09 | 0.20 | 40.9 |
| 4/30/2015 5:33:31 | 45.28 | 44.68 | 749 | 1.09 | 0.19 | 40.9 |
| 4/30/2015 5:33:32 | 45.60 | 45.00 | 749 | 1.10 | 0.19 | 40.9 |
| 4/30/2015 5:33:32 | 45.93 | 45.33 | 746 | 1.09 | 0.20 | 40.8 |
| 4/30/2015 5:33:33 | 46.26 | 45.66 | 746 | 1.11 | 0.20 | 40.8 |
| 4/30/2015 5:33:33 | 46.59 | 45.99 | 746 | 1.11 | 0.20 | 40.8 |
| 4/30/2015 5:33:33 | 46.92 | 46.32 | 741 | 1.09 | 0.20 | 40.5 |
| 4/30/2015 5:33:34 | 47.24 | 46.64 | 749 | 1.10 | 0.17 | 40.9 |
| 4/30/2015 5:33:34 | 47.57 | 46.97 | 746 | 1.10 | 0.20 | 40.8 |
| 4/30/2015 5:34:15 | 47.90 | 47.30 | 111 | 1.17 | 1.00 | 6.1 |
| 4/30/2015 5:34:23 | 48.23 | 47.63 | 37 | 1.02 | 1.08 | 2.0 |
| 4/30/2015 5:34:25 | 48.56 | 47.96 | 162 | 1.07 | 1.19 | 8.8 |
| 4/30/2015 5:34:30 | 48.88 | 48.28 | 64 | 1.09 | 1.09 | 3.5 |
| 4/30/2015 5:34:39 | 49.21 | 48.61 | 39 | 1.06 | 1.09 | 2.1 |
| 4/30/2015 5:34:50 | 49.54 | 48.94 | 31 | 1.01 | 0.97 | 1.7 |
| 4/30/2015 5:34:59 | 49.81 | 49.21 | 30 | 1.06 | 0.84 | 1.7 |

## K28 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:31:24

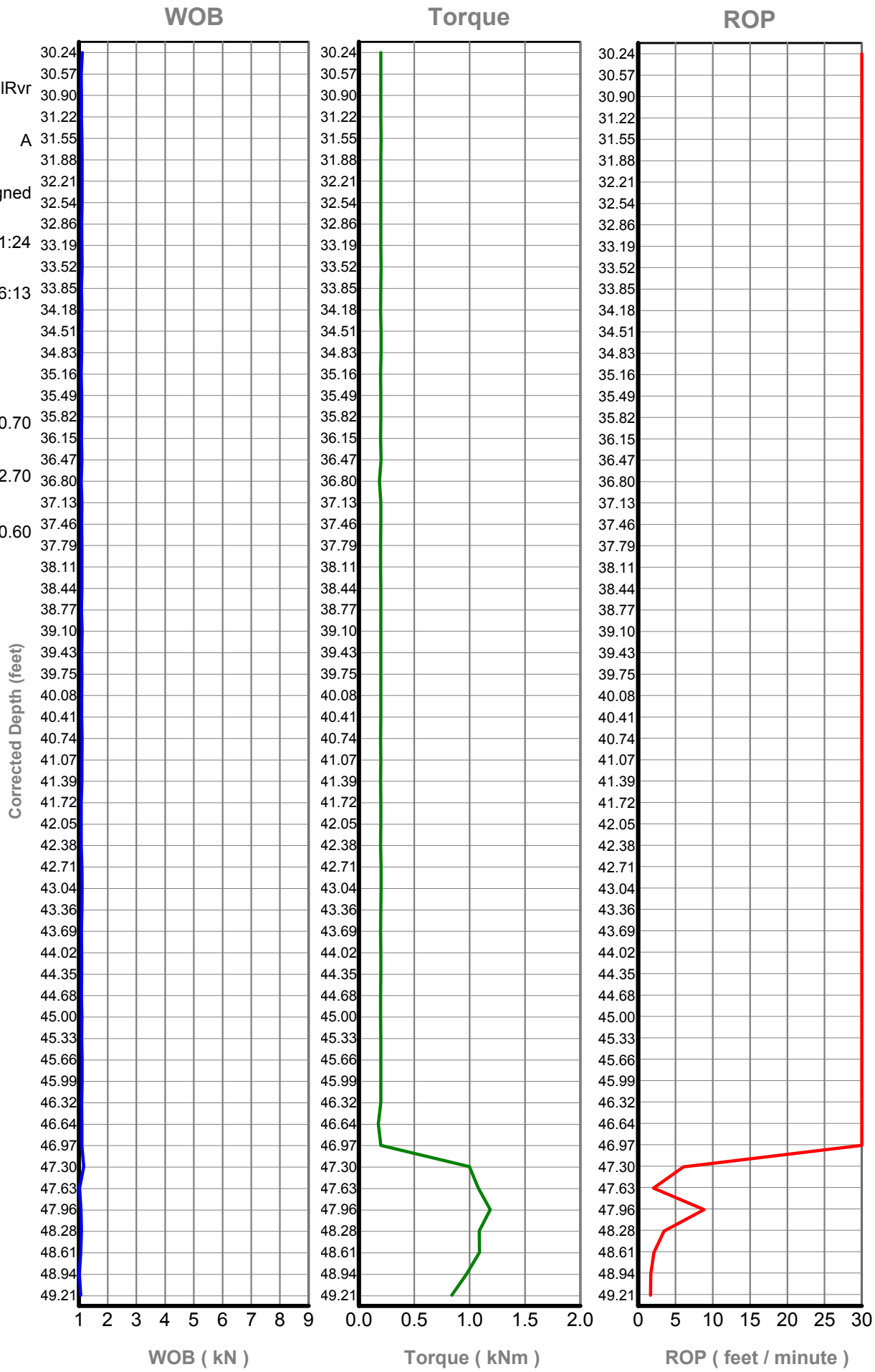
**End Date:**
4/30/2015 5:36:13

**Operator Note:**
'0.6 .7 a Auto Complete'

**Northing:**
362,250.70

**Easting:**
244,952.70

**Tide (feet):**
0.60



## Hole: K29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:33:41 | 30.84 | 30.24 | 1,035 | 0.37 | 0.39 | 56.6 |
| 4/30/2015 5:33:41 | 31.17 | 30.57 | 1,038 | 0.37 | 0.40 | 56.7 |
| 4/30/2015 5:33:42 | 31.50 | 30.90 | 1,029 | 0.37 | 0.39 | 56.3 |
| 4/30/2015 5:33:42 | 31.82 | 31.22 | 1,029 | 0.37 | 0.39 | 56.3 |
| 4/30/2015 5:33:42 | 32.15 | 31.55 | 1,021 | 0.35 | 0.39 | 55.8 |
| 4/30/2015 5:33:43 | 32.48 | 31.88 | 1,009 | 0.37 | 0.39 | 55.2 |
| 4/30/2015 5:33:43 | 32.81 | 32.21 | 1,009 | 0.37 | 0.39 | 55.2 |
| 4/30/2015 5:33:43 | 33.14 | 32.54 | 1,011 | 0.36 | 0.39 | 55.3 |
| 4/30/2015 5:33:44 | 33.46 | 32.86 | 1,018 | 0.37 | 0.39 | 55.7 |
| 4/30/2015 5:33:44 | 33.79 | 33.19 | 1,018 | 0.37 | 0.39 | 55.7 |
| 4/30/2015 5:33:44 | 34.12 | 33.52 | 1,018 | 0.37 | 0.40 | 55.7 |
| 4/30/2015 5:33:45 | 34.45 | 33.85 | 1,024 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 5:33:45 | 34.78 | 34.18 | 1,024 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 5:33:45 | 35.11 | 34.51 | 1,035 | 0.36 | 0.39 | 56.6 |
| 4/30/2015 5:33:46 | 35.43 | 34.83 | 1,035 | 0.36 | 0.39 | 56.6 |
| 4/30/2015 5:33:46 | 35.76 | 35.16 | 1,035 | 0.37 | 0.39 | 56.6 |
| 4/30/2015 5:33:46 | 36.09 | 35.49 | 1,049 | 0.37 | 0.39 | 57.4 |
| 4/30/2015 5:33:47 | 36.42 | 35.82 | 1,059 | 0.37 | 0.39 | 57.9 |
| 4/30/2015 5:33:47 | 36.75 | 36.15 | 1,059 | 0.37 | 0.39 | 57.9 |
| 4/30/2015 5:33:47 | 37.07 | 36.47 | 1,046 | 0.37 | 0.39 | 57.2 |
| 4/30/2015 5:33:48 | 37.40 | 36.80 | 1,046 | 0.37 | 0.39 | 57.2 |
| 4/30/2015 5:33:48 | 37.73 | 37.13 | 1,046 | 0.36 | 0.40 | 57.2 |
| 4/30/2015 5:33:48 | 38.06 | 37.46 | 1,040 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 5:33:49 | 38.39 | 37.79 | 1,040 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 5:33:49 | 38.71 | 38.11 | 1,048 | 0.37 | 0.39 | 57.3 |
| 4/30/2015 5:33:50 | 39.04 | 38.44 | 1,024 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 5:33:50 | 39.37 | 38.77 | 1,024 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 5:33:50 | 39.70 | 39.10 | 1,024 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 5:33:51 | 40.03 | 39.43 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 5:33:51 | 40.35 | 39.75 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 5:33:51 | 40.68 | 40.08 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 5:33:52 | 41.01 | 40.41 | 1,038 | 0.37 | 0.39 | 56.8 |
| 4/30/2015 5:33:52 | 41.34 | 40.74 | 1,038 | 0.37 | 0.39 | 56.8 |
| 4/30/2015 5:33:52 | 41.67 | 41.07 | 1,050 | 0.37 | 0.39 | 57.4 |
| 4/30/2015 5:33:53 | 41.99 | 41.39 | 1,050 | 0.35 | 0.39 | 57.4 |
| 4/30/2015 5:33:53 | 42.32 | 41.72 | 1,050 | 0.35 | 0.39 | 57.4 |
| 4/30/2015 5:33:53 | 42.65 | 42.05 | 1,073 | 0.37 | 0.39 | 58.7 |
| 4/30/2015 5:33:54 | 42.98 | 42.38 | 1,054 | 0.37 | 0.39 | 57.6 |
| 4/30/2015 5:33:54 | 43.31 | 42.71 | 1,054 | 0.37 | 0.39 | 57.6 |
| 4/30/2015 5:33:54 | 43.64 | 43.04 | 1,054 | 0.37 | 0.39 | 57.6 |
| 4/30/2015 5:33:55 | 43.96 | 43.36 | 1,055 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:33:55 | 44.29 | 43.69 | 1,055 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:33:55 | 44.62 | 44.02 | 1,040 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 5:33:56 | 44.95 | 44.35 | 1,040 | 0.37 | 0.39 | 56.9 |
| 4/30/2015 5:33:56 | 45.28 | 44.68 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 5:33:56 | 45.60 | 45.00 | 1,024 | 0.37 | 0.37 | 56.0 |
| 4/30/2015 5:33:57 | 45.93 | 45.33 | 1,024 | 0.37 | 0.37 | 56.0 |
| 4/30/2015 5:33:57 | 46.26 | 45.66 | 1,057 | 0.37 | 0.39 | 57.8 |
| 4/30/2015 5:33:57 | 46.59 | 45.99 | 1,060 | 0.37 | 0.39 | 58.0 |
| 4/30/2015 5:33:58 | 46.92 | 46.32 | 1,060 | 0.37 | 0.39 | 58.0 |
| 4/30/2015 5:34:02 | 47.24 | 46.64 | 17 | 3.52 | 0.47 | 0.9 |
| 4/30/2015 5:34:13 | 47.57 | 46.97 | 46 | 3.95 | 0.47 | 2.5 |
| 4/30/2015 5:34:17 | 47.90 | 47.30 | 76 | 4.86 | 0.47 | 4.2 |
| 4/30/2015 5:34:19 | 48.23 | 47.63 | 144 | 5.46 | 0.46 | 7.9 |
| 4/30/2015 5:34:22 | 48.56 | 47.96 | 155 | 4.36 | 0.46 | 8.5 |
| 4/30/2015 5:34:24 | 48.88 | 48.28 | 169 | 4.74 | 0.47 | 9.2 |
| 4/30/2015 5:34:28 | 49.21 | 48.61 | 89 | 3.50 | 0.48 | 4.9 |
| 4/30/2015 5:34:32 | 49.54 | 48.94 | 89 | 4.44 | 0.47 | 4.9 |
| 4/30/2015 5:34:55 | 49.87 | 49.27 | 46 | 4.77 | 0.48 | 2.5 |
| 4/30/2015 5:34:58 | 50.20 | 49.60 | 116 | 4.57 | 0.47 | 6.3 |
| 4/30/2015 5:35:04 | 50.53 | 49.93 | 45 | 3.31 | 0.48 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 5:35:10 | 50.85 | 50.25 | 72 | 3.86 | 0.47 | 3.9 |
| 4/30/2015 | 5:35:18 | 51.18 | 50.58 | 35 | 3.21 | 0.48 | 1.9 |
| 4/30/2015 | 5:35:26 | 51.51 | 50.91 | 50 | 3.75 | 0.47 | 2.7 |
| 4/30/2015 | 5:35:27 | 51.55 | 50.95 | 50 | 4.00 | 0.47 | 2.8 |

## K29 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:32:09

**End Date:**
4/30/2015 5:37:07

**Operator Note:**
'0.6 0.7b Auto Complete'

**Northing:**
362,296.60

**Easting:**
245,011.30

**Tide (feet):**
0.60



## Hole: K3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:59:26 | 34.12 | 30.22 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:59:27 | 34.45 | 30.55 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:59:27 | 34.78 | 30.88 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:59:28 | 35.11 | 31.21 | 859 | 0.58 | 0.09 | 47.0 |
| 4/30/2015 13:59:47 | 35.43 | 31.53 | 12 | 1.79 | 1.43 | 0.6 |
| 4/30/2015 13:59:50 | 35.76 | 31.86 | 136 | 0.43 | 0.96 | 7.5 |
| 4/30/2015 13:59:52 | 36.09 | 32.19 | 151 | 1.15 | 1.25 | 8.3 |
| 4/30/2015 13:59:54 | 36.42 | 32.52 | 187 | 1.13 | 1.20 | 10.2 |
| 4/30/2015 13:59:55 | 36.75 | 32.85 | 273 | 1.13 | 1.24 | 14.9 |
| 4/30/2015 13:59:56 | 37.07 | 33.17 | 295 | 1.15 | 1.13 | 16.2 |
| 4/30/2015 13:59:58 | 37.40 | 33.50 | 291 | 1.07 | 1.26 | 15.9 |
| 4/30/2015 14:00:00 | 37.73 | 33.83 | 247 | 1.10 | 1.30 | 13.5 |
| 4/30/2015 14:00:01 | 38.06 | 34.16 | 170 | 1.13 | 1.41 | 9.3 |
| 4/30/2015 14:00:04 | 38.39 | 34.49 | 164 | 1.02 | 1.44 | 9.0 |
| 4/30/2015 14:00:06 | 38.71 | 34.81 | 137 | 1.14 | 1.36 | 7.5 |
| 4/30/2015 14:00:09 | 39.04 | 35.14 | 148 | 1.76 | 1.91 | 8.1 |
| 4/30/2015 14:00:13 | 39.37 | 35.47 | 73 | 1.13 | 1.46 | 4.0 |
| 4/30/2015 14:00:17 | 39.70 | 35.80 | 92 | 1.05 | 1.35 | 5.1 |
| 4/30/2015 14:00:21 | 40.03 | 36.13 | 104 | 1.15 | 1.58 | 5.7 |
| 4/30/2015 14:00:27 | 40.35 | 36.45 | 55 | 1.17 | 1.38 | 3.0 |
| 4/30/2015 14:00:32 | 40.68 | 36.78 | 67 | 1.47 | 1.00 | 3.7 |
| 4/30/2015 14:00:38 | 41.01 | 37.11 | 52 | 1.04 | 1.09 | 2.8 |
| 4/30/2015 14:00:44 | 41.34 | 37.44 | 61 | 1.02 | 1.16 | 3.3 |
| 4/30/2015 14:00:50 | 41.67 | 37.77 | 49 | 1.02 | 1.02 | 2.7 |
| 4/30/2015 14:00:58 | 41.99 | 38.09 | 55 | 1.00 | 1.11 | 3.0 |
| 4/30/2015 14:01:02 | 42.32 | 38.42 | 83 | 1.03 | 1.15 | 4.5 |
| 4/30/2015 14:01:08 | 42.55 | 38.65 | 26 | 1.21 | 0.96 | 1.4 |

## K3 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:57:15

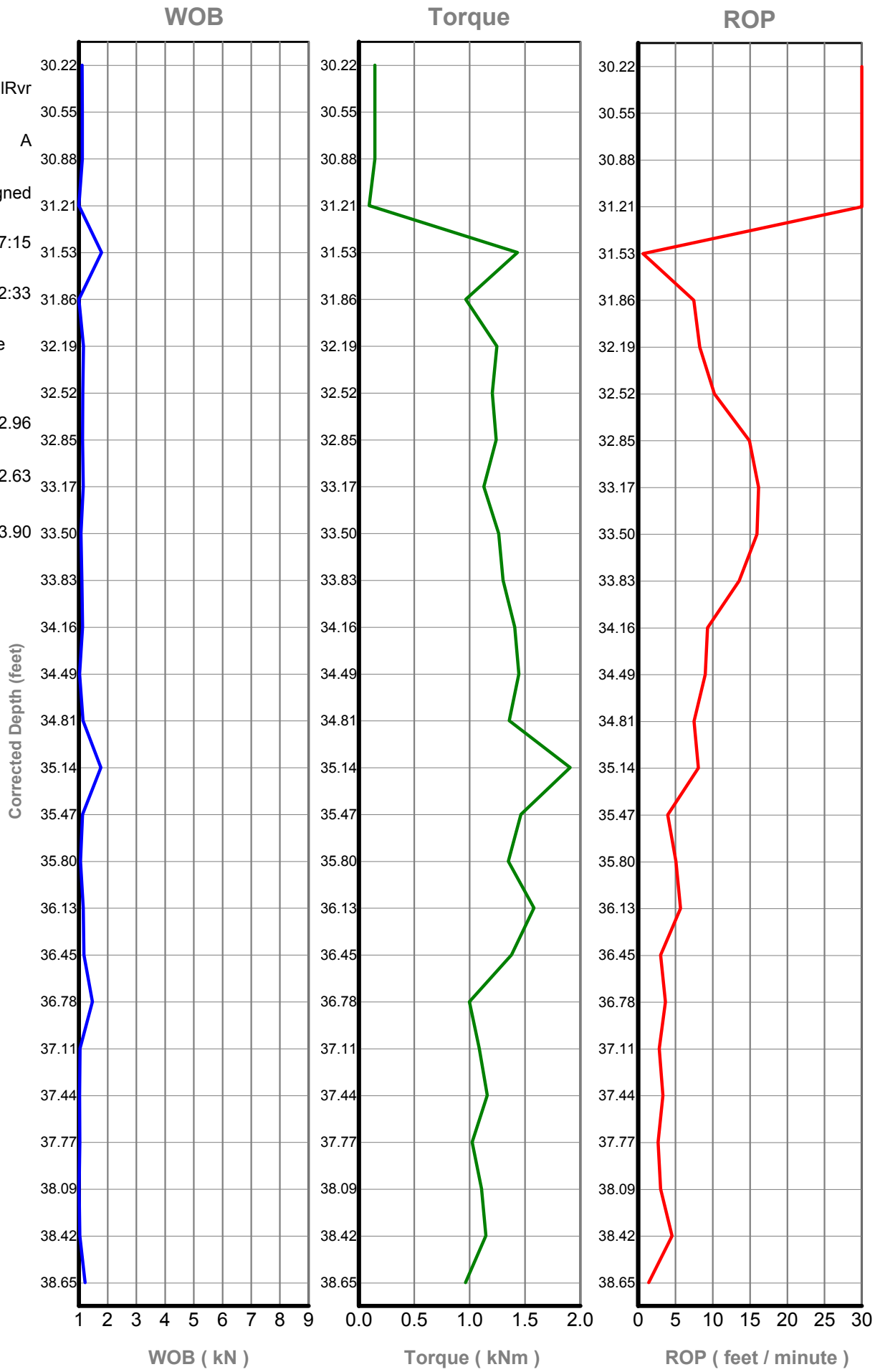
**End Date:**
4/30/2015 14:02:33

**Operator Note:**
'3.9 0.7 b Auto Complete
0.7 b Auto Complete4.4

**Northing:**
361,742.96

**Easting:**
244,202.63

**Tide (feet):**
3.90



## Hole: K30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:32:26 | 30.84 | 30.24 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:32:26 | 31.17 | 30.57 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:32:26 | 31.50 | 30.90 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:32:27 | 31.82 | 31.22 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:27 | 32.15 | 31.55 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:27 | 32.48 | 31.88 | 1,089 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:32:28 | 32.81 | 32.21 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:28 | 33.14 | 32.54 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:28 | 33.46 | 32.86 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:29 | 33.79 | 33.19 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:29 | 34.12 | 33.52 | 1,107 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 5:32:29 | 34.45 | 33.85 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:32:30 | 34.78 | 34.18 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:32:30 | 35.11 | 34.51 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:32:30 | 35.43 | 34.83 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:32:31 | 35.76 | 35.16 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:32:31 | 36.09 | 35.49 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:31 | 36.42 | 35.82 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:32:32 | 36.75 | 36.15 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:32:32 | 37.07 | 36.47 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:32 | 37.40 | 36.80 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:32 | 37.73 | 37.13 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:33 | 38.06 | 37.46 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:33 | 38.39 | 37.79 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:33 | 38.71 | 38.11 | 1,085 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 5:32:34 | 39.04 | 38.44 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 5:32:34 | 39.37 | 38.77 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 5:32:34 | 39.70 | 39.10 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:32:35 | 40.03 | 39.43 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:35 | 40.35 | 39.75 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:35 | 40.68 | 40.08 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:36 | 41.01 | 40.41 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:36 | 41.34 | 40.74 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:32:37 | 41.67 | 41.07 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:37 | 41.99 | 41.39 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:37 | 42.32 | 41.72 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 5:32:38 | 42.65 | 42.05 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:32:38 | 42.98 | 42.38 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:32:38 | 43.31 | 42.71 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:39 | 43.64 | 43.04 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:32:39 | 43.96 | 43.36 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:32:39 | 44.29 | 43.69 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:40 | 44.62 | 44.02 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:32:40 | 44.95 | 44.35 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:32:40 | 45.28 | 44.68 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:32:41 | 45.60 | 45.00 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:32:41 | 45.93 | 45.33 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:32:41 | 46.26 | 45.66 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 5:32:51 | 46.59 | 45.99 | 9 | 1.14 | 0.29 | 0.5 |
| 4/30/2015 5:32:53 | 46.92 | 46.32 | 137 | 1.14 | 0.29 | 7.5 |
| 4/30/2015 5:33:02 | 47.24 | 46.64 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 5:33:14 | 47.57 | 46.97 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 5:33:27 | 47.90 | 47.30 | 25 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 5:33:33 | 48.14 | 47.54 | 37 | 1.14 | 0.29 | 2.0 |

## K30 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:31:30

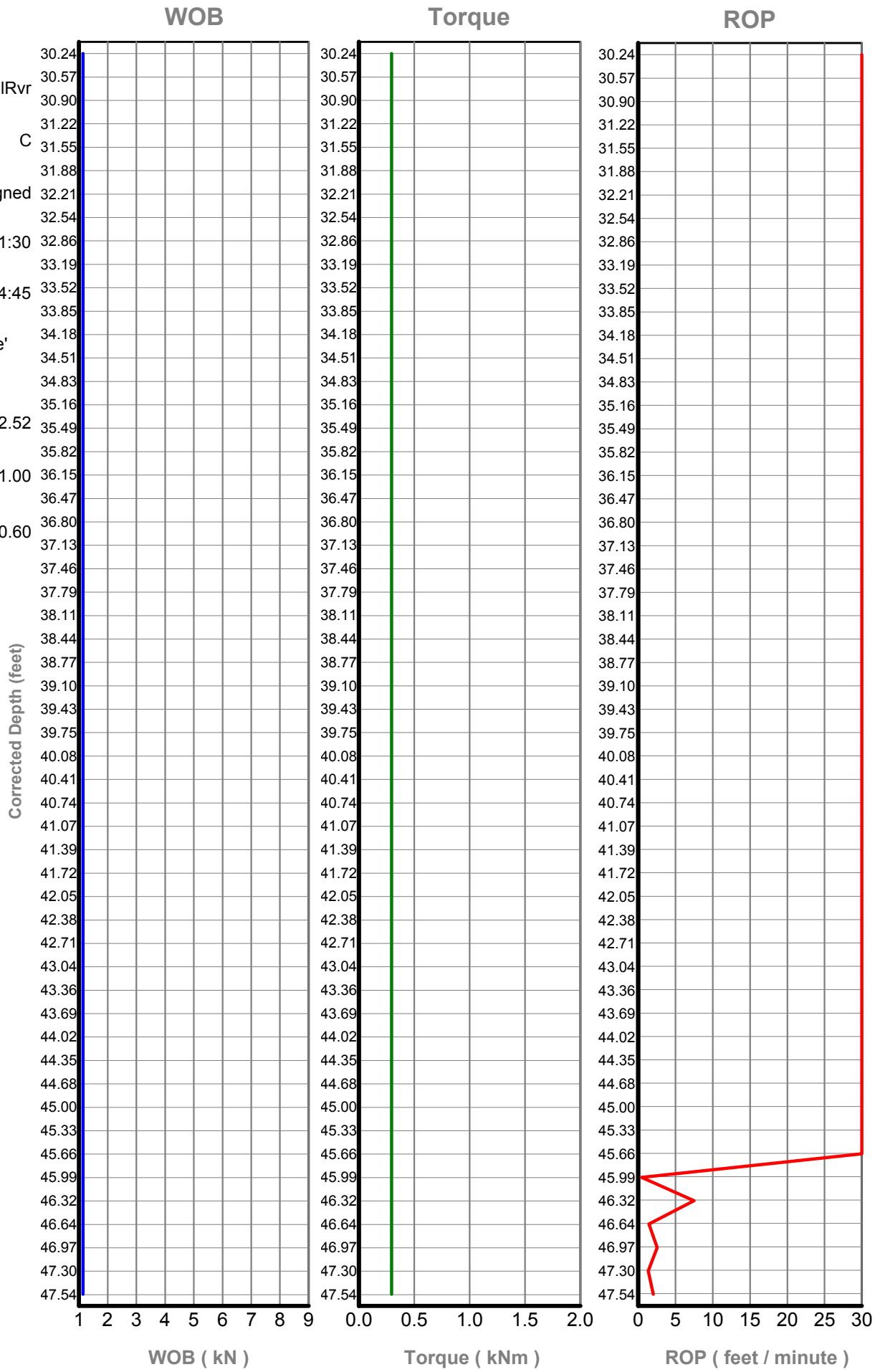
**End Date:**
4/30/2015 5:34:45

**Operator Note:**
'0.6 0.7 c Auto Complete'

**Northing:**
362,342.52

**Easting:**
245,071.00

**Tide (feet):**
0.60



## Hole: K31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:16:48 | 33.14 | 30.04 | 1,250 | 1.76 | 0.24 | 68.4 |
| 4/30/2015 2:16:49 | 33.46 | 30.36 | 1,250 | 1.76 | 0.24 | 68.4 |
| 4/30/2015 2:16:49 | 33.79 | 30.69 | 1,243 | 1.76 | 0.24 | 68.0 |
| 4/30/2015 2:16:49 | 34.12 | 31.02 | 1,243 | 1.76 | 0.24 | 68.0 |
| 4/30/2015 2:16:49 | 34.45 | 31.35 | 1,249 | 1.75 | 0.24 | 68.3 |
| 4/30/2015 2:16:50 | 34.78 | 31.68 | 1,249 | 1.75 | 0.24 | 68.3 |
| 4/30/2015 2:16:50 | 35.11 | 32.01 | 1,243 | 1.76 | 0.24 | 68.0 |
| 4/30/2015 2:16:51 | 35.43 | 32.33 | 1,234 | 1.39 | 0.25 | 67.5 |
| 4/30/2015 2:16:51 | 35.76 | 32.66 | 1,234 | 1.39 | 0.25 | 67.5 |
| 4/30/2015 2:16:51 | 36.09 | 32.99 | 1,156 | 1.41 | 0.25 | 63.2 |
| 4/30/2015 2:16:52 | 36.42 | 33.32 | 1,092 | 1.39 | 0.25 | 59.7 |
| 4/30/2015 2:16:52 | 36.75 | 33.65 | 1,009 | 1.37 | 0.25 | 55.2 |
| 4/30/2015 2:16:53 | 37.07 | 33.97 | 1,009 | 1.37 | 0.25 | 55.2 |
| 4/30/2015 2:16:53 | 37.40 | 34.30 | 946 | 1.39 | 0.25 | 51.7 |
| 4/30/2015 2:16:53 | 37.73 | 34.63 | 873 | 1.40 | 0.25 | 47.7 |
| 4/30/2015 2:16:54 | 38.06 | 34.96 | 873 | 1.39 | 0.25 | 47.7 |
| 4/30/2015 2:16:54 | 38.39 | 35.29 | 870 | 1.38 | 0.26 | 47.6 |
| 4/30/2015 2:16:55 | 38.71 | 35.61 | 870 | 1.38 | 0.26 | 47.6 |
| 4/30/2015 2:16:55 | 39.04 | 35.94 | 873 | 1.42 | 0.26 | 47.7 |
| 4/30/2015 2:16:55 | 39.37 | 36.27 | 865 | 1.38 | 0.25 | 47.3 |
| 4/30/2015 2:16:56 | 39.70 | 36.60 | 870 | 1.40 | 0.25 | 47.6 |
| 4/30/2015 2:16:56 | 40.03 | 36.93 | 867 | 1.38 | 0.25 | 47.4 |
| 4/30/2015 2:16:57 | 40.35 | 37.25 | 867 | 1.38 | 0.25 | 47.4 |
| 4/30/2015 2:16:57 | 40.68 | 37.58 | 864 | 1.39 | 0.25 | 47.3 |
| 4/30/2015 2:16:57 | 41.01 | 37.91 | 861 | 1.40 | 0.25 | 47.1 |
| 4/30/2015 2:16:58 | 41.34 | 38.24 | 861 | 1.38 | 0.25 | 47.1 |
| 4/30/2015 2:16:58 | 41.67 | 38.57 | 858 | 1.41 | 0.25 | 46.9 |
| 4/30/2015 2:16:59 | 41.99 | 38.89 | 858 | 1.41 | 0.25 | 46.9 |
| 4/30/2015 2:16:59 | 42.32 | 39.22 | 856 | 1.43 | 0.25 | 46.8 |
| 4/30/2015 2:16:59 | 42.65 | 39.55 | 842 | 1.53 | 0.22 | 46.1 |
| 4/30/2015 2:17:00 | 42.98 | 39.88 | 844 | 1.74 | 0.25 | 46.2 |
| 4/30/2015 2:17:00 | 43.31 | 40.21 | 870 | 1.37 | 0.26 | 47.6 |
| 4/30/2015 2:17:01 | 43.64 | 40.54 | 870 | 1.37 | 0.26 | 47.6 |
| 4/30/2015 2:17:01 | 43.96 | 40.86 | 862 | 1.41 | 0.28 | 47.1 |
| 4/30/2015 2:17:04 | 44.29 | 41.19 | 198 | 1.03 | 0.19 | 10.9 |
| 4/30/2015 2:17:04 | 44.62 | 41.52 | 178 | 1.09 | 0.20 | 9.7 |
| 4/30/2015 2:17:05 | 44.95 | 41.85 | 318 | 1.10 | 0.20 | 17.4 |
| 4/30/2015 2:17:05 | 45.28 | 42.18 | 462 | 1.08 | 0.19 | 25.3 |
| 4/30/2015 2:17:06 | 45.60 | 42.50 | 605 | 1.07 | 0.19 | 33.1 |
| 4/30/2015 2:17:06 | 45.93 | 42.83 | 720 | 1.08 | 0.19 | 39.4 |
| 4/30/2015 2:17:07 | 46.26 | 43.16 | 720 | 1.08 | 0.19 | 39.4 |
| 4/30/2015 2:17:07 | 46.59 | 43.49 | 716 | 1.08 | 0.19 | 39.2 |
| 4/30/2015 2:17:08 | 46.92 | 43.82 | 716 | 1.08 | 0.19 | 39.2 |
| 4/30/2015 2:17:08 | 47.24 | 44.14 | 719 | 1.07 | 0.19 | 39.3 |
| 4/30/2015 2:17:08 | 47.57 | 44.47 | 725 | 1.09 | 0.19 | 39.6 |
| 4/30/2015 2:17:09 | 47.90 | 44.80 | 697 | 1.15 | 0.19 | 38.1 |
| 4/30/2015 2:17:24 | 48.23 | 45.13 | 39 | 1.24 | 1.00 | 2.2 |
| 4/30/2015 2:17:26 | 48.56 | 45.46 | 161 | 1.15 | 1.31 | 8.8 |
| 4/30/2015 2:17:33 | 48.88 | 45.78 | 34 | 1.03 | 0.88 | 1.9 |
| 4/30/2015 2:17:39 | 49.21 | 46.11 | 58 | 1.15 | 1.16 | 3.2 |
| 4/30/2015 2:17:46 | 49.54 | 46.44 | 49 | 1.02 | 1.06 | 2.7 |
| 4/30/2015 2:17:54 | 49.87 | 46.77 | 47 | 1.11 | 0.97 | 2.6 |
| 4/30/2015 2:17:59 | 50.06 | 46.96 | 49 | 0.62 | 1.13 | 2.7 |

## K31 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:14:57

**End Date:**
4/30/2015 2:19:17

**Operator Note:**
'3.1 3.2 b Auto Complete'

**Northing:**
362,378.00

**Easting:**
245,121.00

**Tide (feet):**
3.10



## Hole: K32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:18:37 | 33.14 | 30.14 | 1,124 | 0.31 | 0.38 | 61.5 |
| 4/30/2015 2:18:38 | 33.46 | 30.46 | 1,127 | 0.31 | 0.39 | 61.6 |
| 4/30/2015 2:18:38 | 33.79 | 30.79 | 1,127 | 0.31 | 0.39 | 61.6 |
| 4/30/2015 2:18:38 | 34.12 | 31.12 | 1,127 | 0.31 | 0.38 | 61.6 |
| 4/30/2015 2:18:39 | 34.45 | 31.45 | 1,127 | 0.31 | 0.38 | 61.6 |
| 4/30/2015 2:18:39 | 34.78 | 31.78 | 1,118 | 0.30 | 0.37 | 61.1 |
| 4/30/2015 2:18:39 | 35.11 | 32.11 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 2:18:40 | 35.43 | 32.43 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 2:18:40 | 35.76 | 32.76 | 1,125 | 0.31 | 0.39 | 61.5 |
| 4/30/2015 2:18:40 | 36.09 | 33.09 | 1,125 | 0.31 | 0.39 | 61.5 |
| 4/30/2015 2:18:40 | 36.42 | 33.42 | 1,122 | 0.31 | 0.38 | 61.3 |
| 4/30/2015 2:18:41 | 36.75 | 33.75 | 1,119 | 0.30 | 0.38 | 61.2 |
| 4/30/2015 2:18:41 | 37.07 | 34.07 | 1,119 | 0.30 | 0.38 | 61.2 |
| 4/30/2015 2:18:41 | 37.40 | 34.40 | 1,132 | 0.33 | 0.38 | 61.9 |
| 4/30/2015 2:18:42 | 37.73 | 34.73 | 1,119 | 0.31 | 0.38 | 61.2 |
| 4/30/2015 2:18:42 | 38.06 | 35.06 | 1,119 | 0.31 | 0.38 | 61.2 |
| 4/30/2015 2:18:42 | 38.39 | 35.39 | 1,129 | 0.31 | 0.38 | 61.7 |
| 4/30/2015 2:18:43 | 38.71 | 35.71 | 1,129 | 0.31 | 0.38 | 61.7 |
| 4/30/2015 2:18:43 | 39.04 | 36.04 | 1,127 | 0.31 | 0.38 | 61.7 |
| 4/30/2015 2:18:43 | 39.37 | 36.37 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 2:18:44 | 39.70 | 36.70 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 2:18:44 | 40.03 | 37.03 | 1,123 | 0.31 | 0.38 | 61.4 |
| 4/30/2015 2:18:44 | 40.35 | 37.35 | 1,123 | 0.31 | 0.38 | 61.4 |
| 4/30/2015 2:18:44 | 40.68 | 37.68 | 1,133 | 0.31 | 0.38 | 62.0 |
| 4/30/2015 2:18:45 | 41.01 | 38.01 | 1,129 | 0.30 | 0.37 | 61.7 |
| 4/30/2015 2:18:46 | 41.34 | 38.34 | 1,129 | 0.30 | 0.37 | 61.7 |
| 4/30/2015 2:18:46 | 41.67 | 38.67 | 1,139 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:18:46 | 41.99 | 38.99 | 1,139 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:18:46 | 42.32 | 39.32 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 2:18:47 | 42.65 | 39.65 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/30/2015 2:18:47 | 42.98 | 39.98 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/30/2015 2:18:47 | 43.31 | 40.31 | 1,136 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 2:18:48 | 43.64 | 40.64 | 1,136 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 2:18:48 | 43.96 | 40.96 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 2:18:48 | 44.29 | 41.29 | 1,136 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 2:18:49 | 44.62 | 41.62 | 1,136 | 0.30 | 0.38 | 62.1 |
| 4/30/2015 2:18:49 | 44.95 | 41.95 | 1,142 | 0.31 | 0.39 | 62.4 |
| 4/30/2015 2:18:49 | 45.28 | 42.28 | 1,142 | 0.31 | 0.39 | 62.4 |
| 4/30/2015 2:18:49 | 45.60 | 42.60 | 1,129 | 0.31 | 0.38 | 61.7 |
| 4/30/2015 2:18:50 | 45.93 | 42.93 | 1,145 | 0.31 | 0.38 | 62.6 |
| 4/30/2015 2:18:50 | 46.26 | 43.26 | 1,145 | 0.31 | 0.38 | 62.6 |
| 4/30/2015 2:18:50 | 46.59 | 43.59 | 1,140 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:18:51 | 46.92 | 43.92 | 1,140 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:18:51 | 47.24 | 44.24 | 1,146 | 0.27 | 0.43 | 62.6 |
| 4/30/2015 2:18:55 | 47.57 | 44.57 | 73 | 3.81 | 0.41 | 4.0 |
| 4/30/2015 2:19:08 | 47.90 | 44.90 | 51 | 3.53 | 0.47 | 2.8 |
| 4/30/2015 2:19:13 | 48.23 | 45.23 | 61 | 3.40 | 0.46 | 3.3 |
| 4/30/2015 2:19:21 | 48.56 | 45.56 | 43 | 3.02 | 0.47 | 2.4 |
| 4/30/2015 2:19:29 | 48.88 | 45.88 | 48 | 3.05 | 0.47 | 2.6 |
| 4/30/2015 2:19:31 | 49.00 | 46.00 | 58 | 3.26 | 0.48 | 3.2 |

## K32 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:16:12

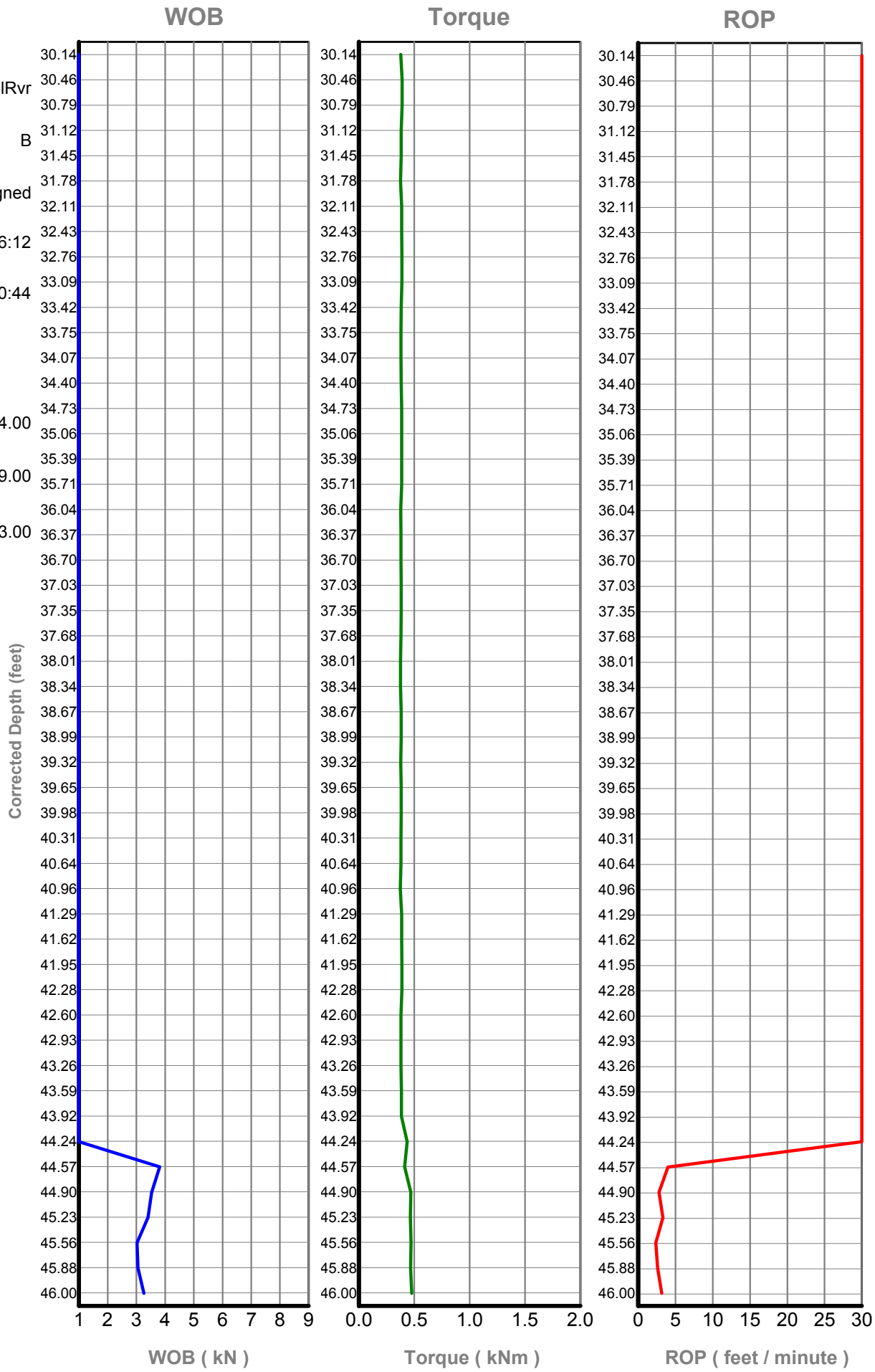
**End Date:**
4/30/2015 2:20:44

**Operator Note:**
'3 3.2b Auto Complete'

**Northing:**
362,424.00

**Easting:**
245,179.00

**Tide (feet):**
3.00



## Hole: K33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:16:24 | 33.14 | 30.14 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:16:24 | 33.46 | 30.46 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:16:25 | 33.79 | 30.79 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:16:25 | 34.12 | 31.12 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:16:25 | 34.45 | 31.45 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:16:25 | 34.78 | 31.78 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:16:26 | 35.11 | 32.11 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:16:26 | 35.43 | 32.43 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:16:26 | 35.76 | 32.76 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 2:16:27 | 36.09 | 33.09 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 2:16:27 | 36.42 | 33.42 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:16:27 | 36.75 | 33.75 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 2:16:28 | 37.07 | 34.07 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 2:16:28 | 37.40 | 34.40 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:16:28 | 37.73 | 34.73 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:16:28 | 38.06 | 35.06 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 2:16:29 | 38.39 | 35.39 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:16:29 | 38.71 | 35.71 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:16:29 | 39.04 | 36.04 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 2:16:30 | 39.37 | 36.37 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:16:30 | 39.70 | 36.70 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:16:30 | 40.03 | 37.03 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:16:31 | 40.35 | 37.35 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 2:16:31 | 40.68 | 37.68 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:16:31 | 41.01 | 38.01 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:16:32 | 41.34 | 38.34 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:16:32 | 41.67 | 38.67 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:16:33 | 41.99 | 38.99 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:16:33 | 42.32 | 39.32 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:16:33 | 42.65 | 39.65 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:16:34 | 42.98 | 39.98 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:16:34 | 43.31 | 40.31 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:16:34 | 43.64 | 40.64 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:16:35 | 43.96 | 40.96 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:16:35 | 44.29 | 41.29 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:35 | 44.62 | 41.62 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:35 | 44.95 | 41.95 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:16:36 | 45.28 | 42.28 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:36 | 45.60 | 42.60 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:36 | 45.93 | 42.93 | 1,116 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:37 | 46.26 | 43.26 | 1,116 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:37 | 46.59 | 43.59 | 1,104 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:16:37 | 46.92 | 43.92 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:38 | 47.24 | 44.24 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:38 | 47.57 | 44.57 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 2:16:38 | 47.90 | 44.90 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:39 | 48.23 | 45.23 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:39 | 48.56 | 45.56 | 1,115 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:39 | 48.88 | 45.88 | 1,115 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:16:39 | 49.21 | 46.21 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:16:54 | 49.54 | 46.54 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 2:17:04 | 49.87 | 46.87 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 2:17:06 | 50.20 | 47.20 | 136 | 1.14 | 0.29 | 7.4 |
| 4/30/2015 2:17:14 | 50.53 | 47.53 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 2:17:15 | 50.85 | 47.85 | 159 | 1.14 | 0.29 | 8.7 |
| 4/30/2015 2:17:16 | 51.18 | 48.18 | 280 | 1.14 | 0.29 | 15.3 |
| 4/30/2015 2:17:20 | 51.51 | 48.51 | 116 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 2:17:23 | 51.84 | 48.84 | 119 | 1.14 | 0.29 | 6.5 |
| 4/30/2015 2:17:26 | 52.17 | 49.17 | 110 | 1.14 | 0.29 | 6.0 |
| 4/30/2015 2:17:29 | 52.49 | 49.49 | 102 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 2:17:57 | 52.82 | 49.82 | 37 | 1.14 | 0.29 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 2:18:00 | 53.15 | 50.15 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 | 2:18:03 | 53.48 | 50.48 | 85 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 | 2:18:11 | 53.81 | 50.81 | 47 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 | 2:18:18 | 54.13 | 51.13 | 47 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 | 2:18:26 | 54.46 | 51.46 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 | 2:18:34 | 54.79 | 51.79 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 2:18:37 | 54.93 | 51.93 | 41 | 1.14 | 0.29 | 2.2 |

## K33 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:15:20

**End Date:**
4/30/2015 2:19:47

**Operator Note:**
'3 3.2 c Auto Complete'

**Northing:**
362,471.00

**Easting:**
245,238.50

**Tide (feet):**
3.00



## Hole: K35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:11:32 | 34.78 | 30.28 | 906 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:32 | 35.11 | 30.61 | 906 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:32 | 35.43 | 30.93 | 908 | 1.14 | 0.29 | 49.7 |
| 4/30/2015 8:11:33 | 35.76 | 31.26 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:33 | 36.09 | 31.59 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:33 | 36.42 | 31.92 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:34 | 36.75 | 32.25 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:34 | 37.07 | 32.57 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:35 | 37.40 | 32.90 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:35 | 37.73 | 33.23 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:35 | 38.06 | 33.56 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:36 | 38.39 | 33.89 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:36 | 38.71 | 34.21 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:36 | 39.04 | 34.54 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:37 | 39.37 | 34.87 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:37 | 39.70 | 35.20 | 914 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 8:11:38 | 40.03 | 35.53 | 914 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 8:11:38 | 40.35 | 35.85 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:38 | 40.68 | 36.18 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:39 | 41.01 | 36.51 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:39 | 41.34 | 36.84 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:39 | 41.67 | 37.17 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:40 | 41.99 | 37.49 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 8:11:41 | 42.32 | 37.82 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 8:11:41 | 42.65 | 38.15 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 8:11:41 | 42.98 | 38.48 | 902 | 1.14 | 0.29 | 49.3 |
| 4/30/2015 8:11:42 | 43.31 | 38.81 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:42 | 43.64 | 39.14 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:43 | 43.96 | 39.46 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:43 | 44.29 | 39.79 | 905 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:43 | 44.62 | 40.12 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 8:11:44 | 44.95 | 40.45 | 921 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:44 | 45.28 | 40.78 | 921 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 8:11:44 | 45.60 | 41.10 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:45 | 45.93 | 41.43 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:45 | 46.26 | 41.76 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:46 | 46.59 | 42.09 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:46 | 46.92 | 42.42 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:46 | 47.24 | 42.74 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:47 | 47.57 | 43.07 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 8:11:47 | 47.90 | 43.40 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:48 | 48.23 | 43.73 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:48 | 48.56 | 44.06 | 910 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 8:11:48 | 48.88 | 44.38 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 8:11:49 | 49.21 | 44.71 | 905 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:49 | 49.54 | 45.04 | 905 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:49 | 49.87 | 45.37 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 8:11:50 | 50.20 | 45.70 | 902 | 1.14 | 0.29 | 49.3 |
| 4/30/2015 8:11:50 | 50.53 | 46.03 | 904 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:51 | 50.85 | 46.35 | 904 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 8:11:51 | 51.18 | 46.68 | 904 | 1.14 | 0.29 | 49.4 |
| 4/30/2015 8:11:51 | 51.51 | 47.01 | 902 | 1.14 | 0.29 | 49.3 |
| 4/30/2015 8:11:52 | 51.84 | 47.34 | 901 | 1.14 | 0.29 | 49.3 |
| 4/30/2015 8:11:53 | 52.17 | 47.67 | 901 | 1.14 | 0.29 | 49.3 |
| 4/30/2015 8:11:53 | 52.49 | 47.99 | 904 | 1.14 | 0.29 | 49.4 |
| 4/30/2015 8:11:53 | 52.82 | 48.32 | 899 | 1.14 | 0.29 | 49.2 |
| 4/30/2015 8:12:16 | 53.15 | 48.65 | 3 | 1.14 | 0.29 | 0.1 |
| 4/30/2015 8:12:17 | 53.48 | 48.98 | 126 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 8:12:17 | 53.81 | 49.31 | 240 | 1.14 | 0.29 | 13.1 |
| 4/30/2015 8:12:18 | 54.13 | 49.63 | 352 | 1.14 | 0.29 | 19.2 |
| 4/30/2015 8:12:19 | 54.46 | 49.96 | 532 | 1.14 | 0.29 | 29.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 8:12:19 | 54.79 | 50.29 | 532 | 1.14 | 0.29 | 29.1 |
| 4/30/2015 | 8:12:21 | 55.12 | 50.62 | 429 | 1.14 | 0.29 | 23.5 |
| 4/30/2015 | 8:12:52 | 55.45 | 50.95 | 78 | 1.14 | 0.29 | 4.3 |
| 4/30/2015 | 8:13:35 | 55.77 | 51.27 | 76 | 1.14 | 0.29 | 4.1 |
| 4/30/2015 | 8:13:36 | 56.10 | 51.60 | 222 | 1.14 | 0.29 | 12.1 |
| 4/30/2015 | 8:13:37 | 56.43 | 51.93 | 279 | 1.14 | 0.29 | 15.2 |
| 4/30/2015 | 8:13:38 | 56.76 | 52.26 | 343 | 1.14 | 0.29 | 18.7 |
| 4/30/2015 | 8:14:19 | 57.09 | 52.59 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 8:14:20 | 57.41 | 52.91 | 127 | 1.14 | 0.29 | 7.0 |
| 4/30/2015 | 8:14:20 | 57.74 | 53.24 | 227 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 | 8:16:41 | 58.07 | 53.57 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 | 8:16:42 | 58.40 | 53.90 | 155 | 1.14 | 0.29 | 8.5 |
| 4/30/2015 | 8:16:43 | 58.73 | 54.23 | 300 | 1.14 | 0.29 | 16.4 |
| 4/30/2015 | 8:16:44 | 59.06 | 54.56 | 364 | 1.14 | 0.29 | 19.9 |
| 4/30/2015 | 8:16:44 | 59.16 | 54.66 | 364 | 1.14 | 0.29 | 19.9 |

## K35 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/30/2015 8:10:17

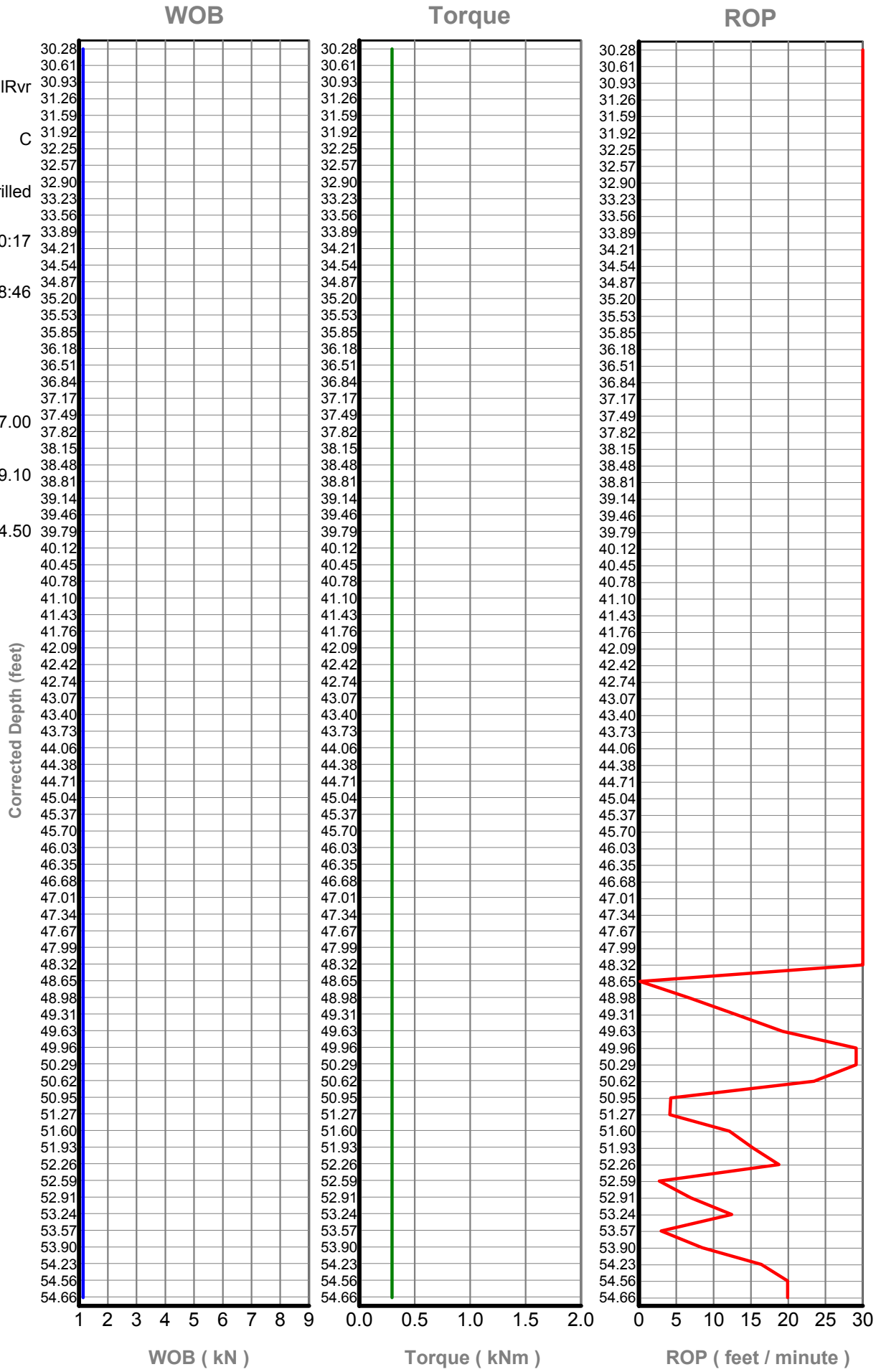
**End Date:**
4/30/2015 8:18:46

**Operator Note:**
'4.5 4.0 C Auto Complete'

**Northing:**
361,547.00

**Easting:**
244,199.10

**Tide (feet):**
4.50



## Hole: K36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 8:33:03 | 34.78 | 30.08 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:03 | 35.11 | 30.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:04 | 35.43 | 30.73 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:04 | 35.76 | 31.06 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:04 | 36.09 | 31.39 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:05 | 36.42 | 31.72 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:05 | 36.75 | 32.05 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 8:33:05 | 37.07 | 32.37 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:06 | 37.40 | 32.70 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:06 | 37.73 | 33.03 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 8:33:06 | 38.06 | 33.36 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 8:33:07 | 38.39 | 33.69 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 8:33:07 | 38.71 | 34.01 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 8:33:07 | 39.04 | 34.34 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:08 | 39.37 | 34.67 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:08 | 39.70 | 35.00 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 8:33:09 | 40.03 | 35.33 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:09 | 40.35 | 35.65 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 8:33:09 | 40.68 | 35.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 8:33:10 | 41.01 | 36.31 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 8:33:10 | 41.34 | 36.64 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 8:33:10 | 41.67 | 36.97 | 1,041 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 8:33:11 | 41.99 | 37.29 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:11 | 42.32 | 37.62 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:11 | 42.65 | 37.95 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 8:33:12 | 42.98 | 38.28 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:12 | 43.31 | 38.61 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:12 | 43.64 | 38.94 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:13 | 43.96 | 39.26 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 8:33:13 | 44.29 | 39.59 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 8:33:13 | 44.62 | 39.92 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 8:33:14 | 44.95 | 40.25 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 8:33:14 | 45.28 | 40.58 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 8:33:14 | 45.60 | 40.90 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 8:33:15 | 45.93 | 41.23 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:15 | 46.26 | 41.56 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:15 | 46.59 | 41.89 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:16 | 46.92 | 42.22 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:16 | 47.24 | 42.54 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 8:33:16 | 47.57 | 42.87 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:17 | 47.90 | 43.20 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:17 | 48.23 | 43.53 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:17 | 48.56 | 43.86 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:18 | 48.88 | 44.18 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 8:33:18 | 49.21 | 44.51 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 8:33:18 | 49.54 | 44.84 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 8:33:19 | 49.87 | 45.17 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 8:33:19 | 50.20 | 45.50 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 8:33:20 | 50.53 | 45.83 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 8:33:20 | 50.85 | 46.15 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 8:33:32 | 51.18 | 46.48 | 13 | 1.14 | 0.29 | 0.7 |
| 4/30/2015 8:33:33 | 51.51 | 46.81 | 175 | 1.14 | 0.29 | 9.6 |
| 4/30/2015 8:33:39 | 51.84 | 47.14 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 8:33:46 | 52.17 | 47.47 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 8:33:56 | 52.49 | 47.79 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 8:34:12 | 52.82 | 48.12 | 17 | 1.14 | 0.29 | 1.0 |
| 4/30/2015 8:34:22 | 53.14 | 48.44 | 23 | 1.14 | 0.29 | 1.3 |

## K36 - Summary

**Pattern Number:**
AreaK_Lane18-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:31:56

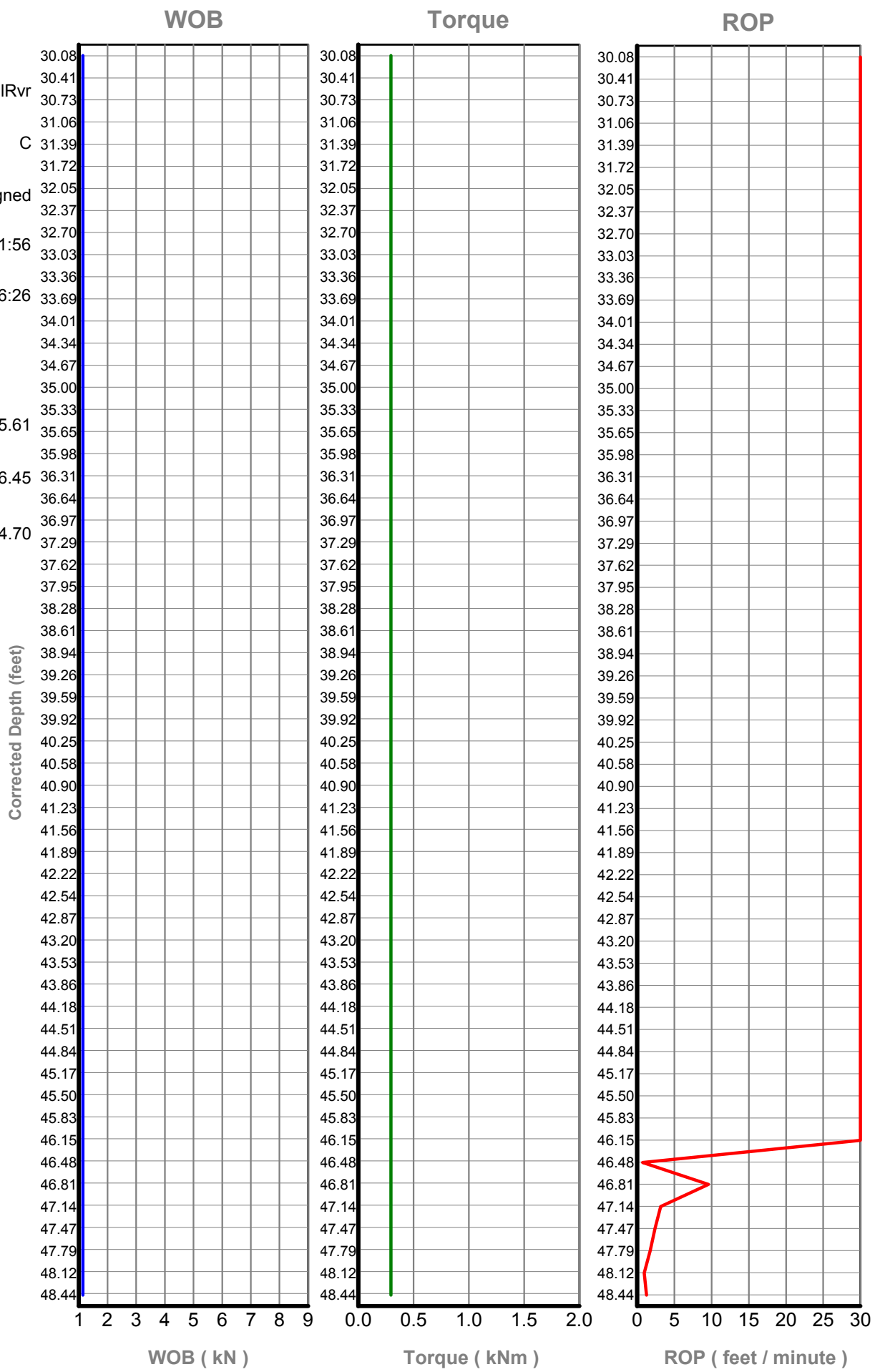
**End Date:**
4/30/2015 8:36:26

**Operator Note:**
'4.7 4.7 C Auto Complete'

**Northing:**
361,595.61

**Easting:**
244,266.45

**Tide (feet):**
4.70



## Hole: K37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:25:02 | 34.78 | 30.18 | 913 | 1.12 | 0.15 | 49.9 |
| 4/30/2015 13:25:02 | 35.11 | 30.51 | 913 | 1.12 | 0.15 | 49.9 |
| 4/30/2015 13:25:02 | 35.43 | 30.83 | 908 | 1.11 | 0.15 | 49.6 |
| 4/30/2015 13:25:03 | 35.76 | 31.16 | 916 | 1.13 | 0.15 | 50.1 |
| 4/30/2015 13:25:03 | 36.09 | 31.49 | 916 | 1.13 | 0.15 | 50.1 |
| 4/30/2015 13:25:03 | 36.42 | 31.82 | 911 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 13:25:04 | 36.75 | 32.15 | 911 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 13:25:04 | 37.07 | 32.47 | 911 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 13:25:05 | 37.40 | 32.80 | 911 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 13:25:05 | 37.73 | 33.13 | 919 | 1.12 | 0.15 | 50.3 |
| 4/30/2015 13:25:05 | 38.06 | 33.46 | 911 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 13:25:06 | 38.39 | 33.79 | 919 | 1.13 | 0.15 | 50.3 |
| 4/30/2015 13:25:06 | 38.71 | 34.11 | 919 | 1.13 | 0.15 | 50.3 |
| 4/30/2015 13:25:06 | 39.04 | 34.44 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 13:25:07 | 39.37 | 34.77 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 13:25:07 | 39.70 | 35.10 | 912 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 13:25:08 | 40.03 | 35.43 | 912 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 13:25:08 | 40.35 | 35.75 | 903 | 1.13 | 0.15 | 49.4 |
| 4/30/2015 13:25:08 | 40.68 | 36.08 | 893 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 13:25:09 | 41.01 | 36.41 | 883 | 1.12 | 0.15 | 48.3 |
| 4/30/2015 13:25:09 | 41.34 | 36.74 | 883 | 1.13 | 0.15 | 48.3 |
| 4/30/2015 13:25:10 | 41.67 | 37.07 | 883 | 1.13 | 0.15 | 48.3 |
| 4/30/2015 13:25:10 | 41.99 | 37.39 | 910 | 1.13 | 0.15 | 49.8 |
| 4/30/2015 13:25:10 | 42.32 | 37.72 | 889 | 1.11 | 0.15 | 48.6 |
| 4/30/2015 13:25:11 | 42.65 | 38.05 | 897 | 1.11 | 0.15 | 49.1 |
| 4/30/2015 13:25:12 | 42.98 | 38.38 | 897 | 1.11 | 0.15 | 49.1 |
| 4/30/2015 13:25:12 | 43.31 | 38.71 | 910 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 13:25:12 | 43.64 | 39.04 | 913 | 1.11 | 0.15 | 49.9 |
| 4/30/2015 13:25:13 | 43.96 | 39.36 | 895 | 1.12 | 0.15 | 48.9 |
| 4/30/2015 13:25:13 | 44.29 | 39.69 | 895 | 1.12 | 0.15 | 48.9 |
| 4/30/2015 13:25:13 | 44.62 | 40.02 | 914 | 1.11 | 0.15 | 50.0 |
| 4/30/2015 13:25:14 | 44.95 | 40.35 | 905 | 1.13 | 0.15 | 49.5 |
| 4/30/2015 13:25:14 | 45.28 | 40.68 | 905 | 1.13 | 0.15 | 49.5 |
| 4/30/2015 13:25:15 | 45.60 | 41.00 | 905 | 1.13 | 0.15 | 49.5 |
| 4/30/2015 13:25:15 | 45.93 | 41.33 | 905 | 1.11 | 0.15 | 49.5 |
| 4/30/2015 13:25:15 | 46.26 | 41.66 | 910 | 1.12 | 0.15 | 49.8 |
| 4/30/2015 13:25:16 | 46.59 | 41.99 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 13:25:16 | 46.92 | 42.32 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 13:25:16 | 47.24 | 42.64 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 13:25:17 | 47.57 | 42.97 | 893 | 1.11 | 0.15 | 48.9 |
| 4/30/2015 13:25:17 | 47.90 | 43.30 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 13:25:18 | 48.23 | 43.63 | 902 | 1.13 | 0.15 | 49.3 |
| 4/30/2015 13:25:18 | 48.56 | 43.96 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 13:25:18 | 48.88 | 44.28 | 888 | 1.13 | 0.15 | 48.6 |
| 4/30/2015 13:25:19 | 49.21 | 44.61 | 900 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 13:25:19 | 49.54 | 44.94 | 900 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 13:25:19 | 49.87 | 45.27 | 903 | 1.11 | 0.15 | 49.4 |
| 4/30/2015 13:25:20 | 50.20 | 45.60 | 900 | 1.11 | 0.15 | 49.2 |
| 4/30/2015 13:25:20 | 50.53 | 45.93 | 900 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 13:25:21 | 50.85 | 46.25 | 905 | 1.12 | 0.15 | 49.5 |
| 4/30/2015 13:25:22 | 51.18 | 46.58 | 905 | 1.12 | 0.15 | 49.5 |
| 4/30/2015 13:25:22 | 51.51 | 46.91 | 899 | 1.12 | 0.15 | 49.2 |
| 4/30/2015 13:25:22 | 51.84 | 47.24 | 896 | 1.11 | 0.15 | 49.0 |
| 4/30/2015 13:25:23 | 52.17 | 47.57 | 893 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 13:25:23 | 52.49 | 47.89 | 893 | 1.12 | 0.15 | 48.8 |
| 4/30/2015 13:25:23 | 52.82 | 48.22 | 893 | 1.13 | 0.15 | 48.8 |
| 4/30/2015 13:25:28 | 53.15 | 48.55 | 0 | 1.05 | 0.77 | 0.0 |
| 4/30/2015 13:25:45 | 53.48 | 48.88 | 21 | 1.15 | 1.18 | 1.1 |
| 4/30/2015 13:25:56 | 53.81 | 49.21 | 57 | 1.11 | 1.21 | 3.1 |
| 4/30/2015 13:25:58 | 54.13 | 49.53 | 208 | 1.10 | 1.18 | 11.4 |
| 4/30/2015 13:26:03 | 54.46 | 49.86 | 63 | 1.06 | 1.07 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:26:12 | 54.79 | 50.19 | 32 | 1.12 | 1.00 | 1.7 |
| 4/30/2015 | 13:26:18 | 55.12 | 50.52 | 69 | 1.17 | 1.23 | 3.8 |
| 4/30/2015 | 13:26:21 | 55.45 | 50.85 | 131 | 1.04 | 1.25 | 7.2 |
| 4/30/2015 | 13:26:25 | 55.77 | 51.17 | 95 | 1.07 | 1.15 | 5.2 |
| 4/30/2015 | 13:26:27 | 56.10 | 51.50 | 162 | 1.10 | 1.35 | 8.9 |
| 4/30/2015 | 13:26:32 | 56.43 | 51.83 | 40 | 1.07 | 0.97 | 2.2 |
| 4/30/2015 | 13:26:42 | 56.76 | 52.16 | 35 | 1.12 | 0.96 | 1.9 |
| 4/30/2015 | 13:26:53 | 57.09 | 52.49 | 31 | 1.08 | 0.91 | 1.7 |
| 4/30/2015 | 13:26:59 | 57.23 | 52.63 | 29 | 1.16 | 1.11 | 1.6 |

## K37 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:23:35

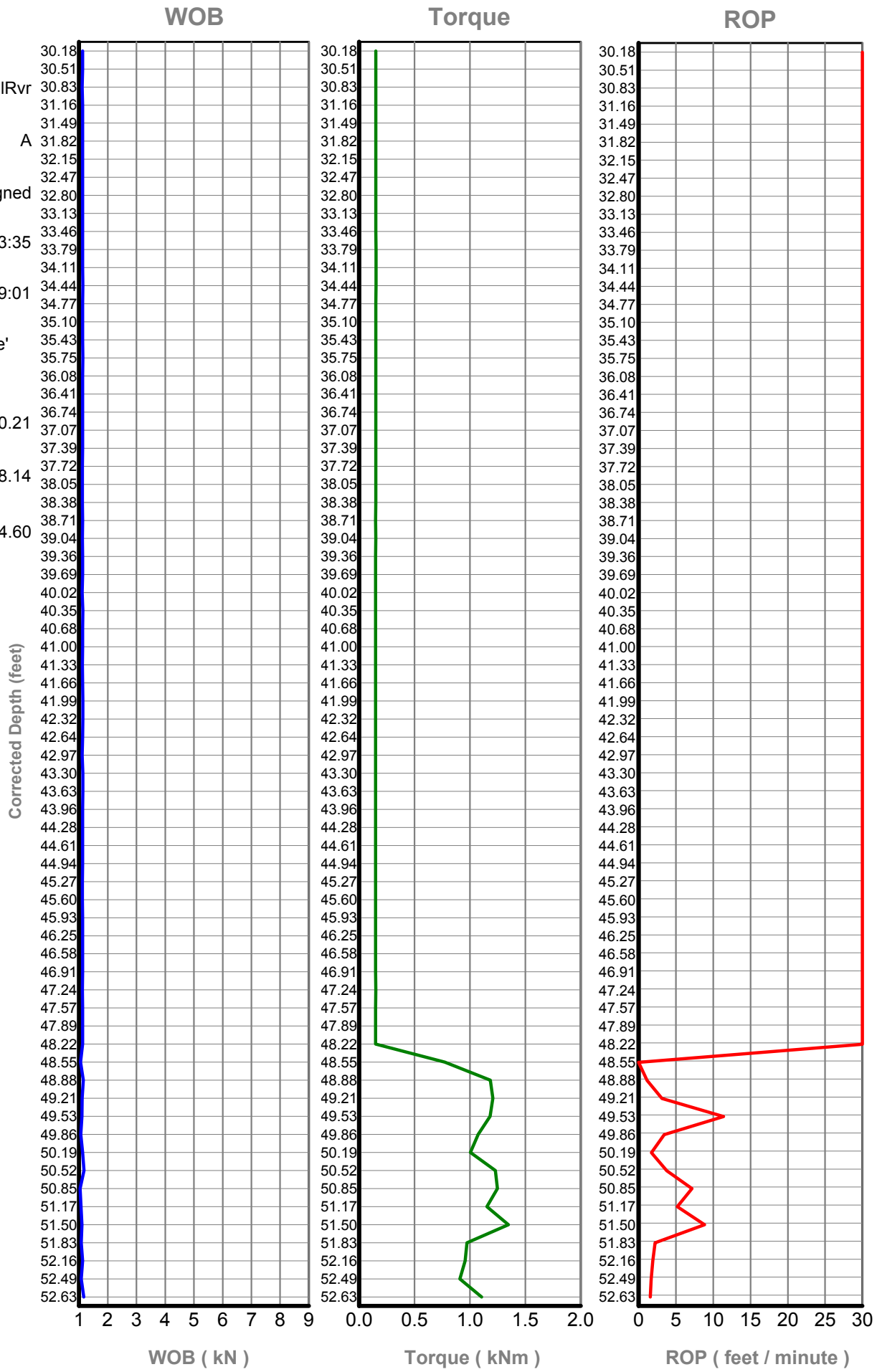
**End Date:**
4/30/2015 13:29:01

**Operator Note:**
'4.6 5.0 a Auto Complete'

**Northing:**
361,620.21

**Easting:**
244,298.14

**Tide (feet):**
4.60



## Hole: K38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:24:22 | 34.78 | 30.18 | 1,202 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 13:24:22 | 35.11 | 30.51 | 1,202 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 13:24:23 | 35.43 | 30.83 | 1,202 | 0.29 | 0.37 | 65.7 |
| 4/30/2015 13:24:23 | 35.76 | 31.16 | 1,199 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 13:24:23 | 36.09 | 31.49 | 1,199 | 0.27 | 0.38 | 65.6 |
| 4/30/2015 13:24:23 | 36.42 | 31.82 | 1,199 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 13:24:24 | 36.75 | 32.15 | 1,199 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 13:24:24 | 37.07 | 32.47 | 1,221 | 0.29 | 0.38 | 66.8 |
| 4/30/2015 13:24:24 | 37.40 | 32.80 | 1,221 | 0.29 | 0.38 | 66.8 |
| 4/30/2015 13:24:24 | 37.73 | 33.13 | 1,211 | 0.31 | 0.37 | 66.2 |
| 4/30/2015 13:24:25 | 38.06 | 33.46 | 1,204 | 0.37 | 0.40 | 65.8 |
| 4/30/2015 13:24:25 | 38.39 | 33.79 | 1,204 | 0.37 | 0.40 | 65.8 |
| 4/30/2015 13:24:25 | 38.71 | 34.11 | 1,204 | 0.30 | 0.38 | 65.8 |
| 4/30/2015 13:24:26 | 39.04 | 34.44 | 1,204 | 0.30 | 0.38 | 65.8 |
| 4/30/2015 13:24:26 | 39.37 | 34.77 | 1,218 | 0.31 | 0.38 | 66.6 |
| 4/30/2015 13:24:26 | 39.70 | 35.10 | 1,218 | 0.31 | 0.38 | 66.6 |
| 4/30/2015 13:24:26 | 40.03 | 35.43 | 1,210 | 0.34 | 0.37 | 66.1 |
| 4/30/2015 13:24:27 | 40.35 | 35.75 | 1,191 | 0.28 | 0.37 | 65.1 |
| 4/30/2015 13:24:27 | 40.68 | 36.08 | 1,191 | 0.28 | 0.37 | 65.1 |
| 4/30/2015 13:24:27 | 41.01 | 36.41 | 1,188 | 0.39 | 0.39 | 65.0 |
| 4/30/2015 13:24:28 | 41.34 | 36.74 | 1,188 | 0.39 | 0.39 | 65.0 |
| 4/30/2015 13:24:28 | 41.67 | 37.07 | 1,188 | 0.33 | 0.37 | 65.0 |
| 4/30/2015 13:24:28 | 41.99 | 37.39 | 1,188 | 0.33 | 0.37 | 65.0 |
| 4/30/2015 13:24:28 | 42.32 | 37.72 | 1,186 | 0.33 | 0.38 | 64.8 |
| 4/30/2015 13:24:29 | 42.65 | 38.05 | 1,177 | 0.33 | 0.38 | 64.4 |
| 4/30/2015 13:24:29 | 42.98 | 38.38 | 1,177 | 0.33 | 0.38 | 64.4 |
| 4/30/2015 13:24:29 | 43.31 | 38.71 | 1,177 | 0.33 | 0.37 | 64.4 |
| 4/30/2015 13:24:30 | 43.64 | 39.04 | 1,177 | 0.33 | 0.37 | 64.4 |
| 4/30/2015 13:24:30 | 43.96 | 39.36 | 1,182 | 0.30 | 0.38 | 64.6 |
| 4/30/2015 13:24:30 | 44.29 | 39.69 | 1,182 | 0.30 | 0.38 | 64.6 |
| 4/30/2015 13:24:30 | 44.62 | 40.02 | 1,182 | 0.29 | 0.38 | 64.6 |
| 4/30/2015 13:24:31 | 44.95 | 40.35 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/30/2015 13:24:32 | 45.28 | 40.68 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/30/2015 13:24:32 | 45.60 | 41.00 | 1,185 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 13:24:32 | 45.93 | 41.33 | 1,185 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 13:24:32 | 46.26 | 41.66 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 13:24:33 | 46.59 | 41.99 | 1,172 | 0.37 | 0.21 | 64.1 |
| 4/30/2015 13:25:20 | 46.92 | 42.32 | 0 | 0.30 | 0.36 | 0.0 |
| 4/30/2015 13:25:20 | 47.24 | 42.64 | 223 | 0.29 | 0.37 | 12.2 |
| 4/30/2015 13:25:21 | 47.57 | 42.97 | 223 | 0.29 | 0.37 | 12.2 |
| 4/30/2015 13:25:21 | 47.90 | 43.30 | 465 | 0.29 | 0.36 | 25.4 |
| 4/30/2015 13:25:22 | 48.23 | 43.63 | 465 | 0.29 | 0.36 | 25.4 |
| 4/30/2015 13:25:21 | 48.56 | 43.96 | 680 | 0.29 | 0.36 | 37.2 |
| 4/30/2015 13:25:22 | 48.88 | 44.28 | 680 | 0.29 | 0.36 | 37.2 |
| 4/30/2015 13:25:22 | 49.21 | 44.61 | 935 | 0.29 | 0.37 | 51.1 |
| 4/30/2015 13:25:22 | 49.54 | 44.94 | 935 | 0.29 | 0.36 | 51.1 |
| 4/30/2015 13:25:23 | 49.87 | 45.27 | 935 | 0.29 | 0.36 | 51.1 |
| 4/30/2015 13:25:23 | 50.20 | 45.60 | 1,190 | 0.29 | 0.36 | 65.1 |
| 4/30/2015 13:25:24 | 50.53 | 45.93 | 1,190 | 0.29 | 0.36 | 65.1 |
| 4/30/2015 13:25:24 | 50.85 | 46.25 | 1,210 | 0.30 | 0.37 | 66.1 |
| 4/30/2015 13:25:24 | 51.18 | 46.58 | 1,210 | 0.30 | 0.37 | 66.1 |
| 4/30/2015 13:25:24 | 51.51 | 46.91 | 1,188 | 0.29 | 0.38 | 64.9 |
| 4/30/2015 13:25:25 | 51.84 | 47.24 | 1,188 | 0.29 | 0.38 | 64.9 |
| 4/30/2015 13:25:25 | 52.17 | 47.57 | 1,220 | 0.29 | 0.37 | 66.7 |
| 4/30/2015 13:25:25 | 52.49 | 47.89 | 1,220 | 0.29 | 0.36 | 66.7 |
| 4/30/2015 13:25:26 | 52.82 | 48.22 | 1,220 | 0.29 | 0.36 | 66.7 |
| 4/30/2015 13:25:26 | 53.15 | 48.55 | 1,189 | 0.26 | 0.47 | 65.0 |
| 4/30/2015 13:26:26 | 53.48 | 48.88 | 26 | 3.11 | 0.45 | 1.4 |
| 4/30/2015 13:26:38 | 53.81 | 49.21 | 42 | 3.11 | 0.46 | 2.3 |
| 4/30/2015 13:26:40 | 54.13 | 49.53 | 142 | 8.10 | 0.47 | 7.8 |
| 4/30/2015 13:26:48 | 54.46 | 49.86 | 99 | 4.50 | 0.47 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:26:50 | 54.79 | 50.19 | 125 | 3.28 | 0.45 | 6.8 |
| 4/30/2015 | 13:26:54 | 55.12 | 50.52 | 88 | 3.50 | 0.46 | 4.8 |
| 4/30/2015 | 13:26:57 | 55.45 | 50.85 | 126 | 3.76 | 0.46 | 6.9 |
| 4/30/2015 | 13:27:01 | 55.77 | 51.17 | 99 | 3.23 | 0.46 | 5.4 |
| 4/30/2015 | 13:27:04 | 56.10 | 51.50 | 101 | 2.60 | 0.47 | 5.5 |
| 4/30/2015 | 13:27:16 | 56.43 | 51.83 | 29 | 2.50 | 0.47 | 1.6 |
| 4/30/2015 | 13:27:28 | 56.76 | 52.16 | 29 | 2.69 | 0.47 | 1.6 |
| 4/30/2015 | 13:27:35 | 56.97 | 52.37 | 35 | 2.73 | 0.47 | 1.9 |

## K38 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:22:44

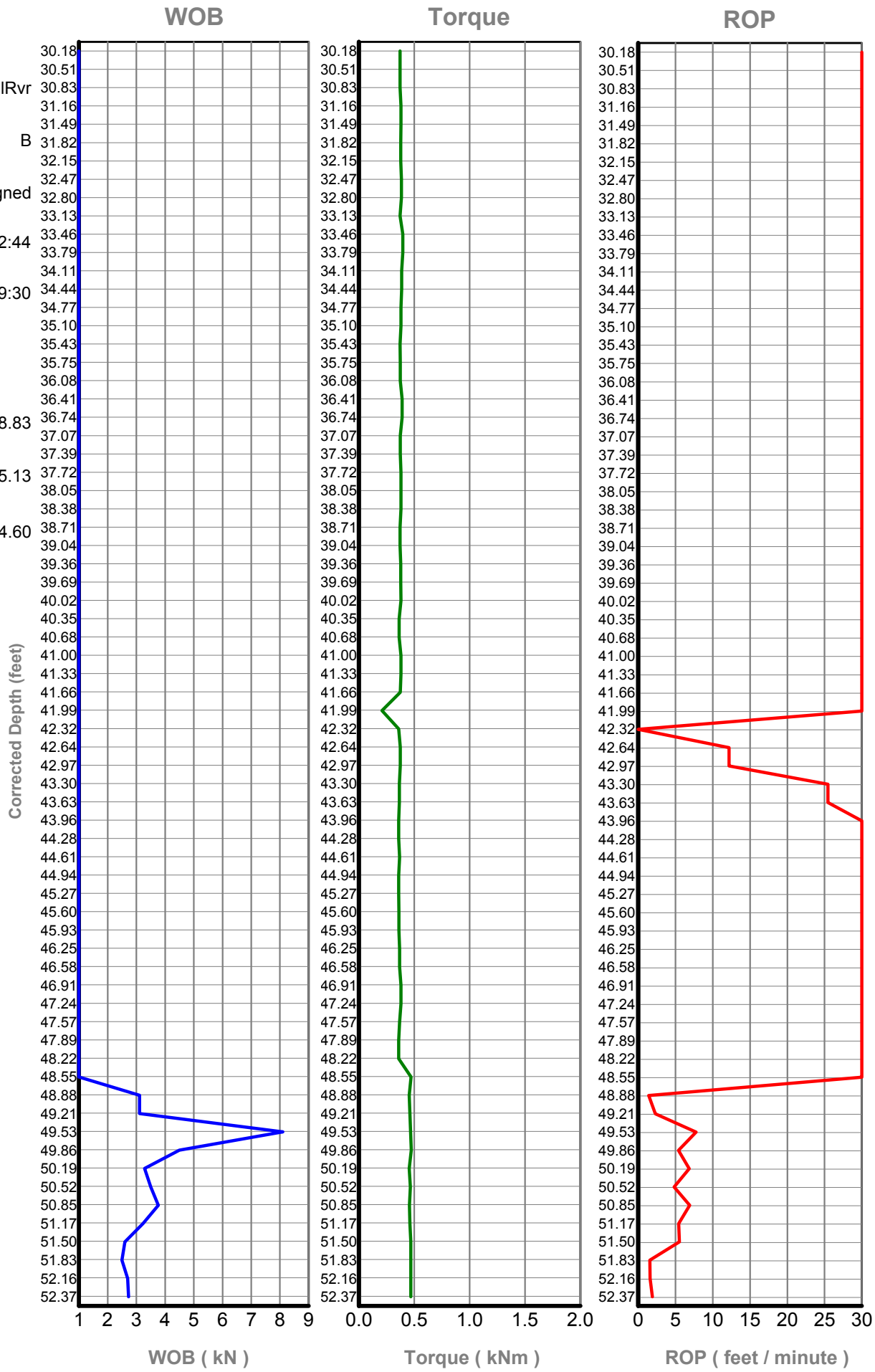
**End Date:**
4/30/2015 13:29:30

**Operator Note:**
'4.6 5.0 b Rock'

**Northing:**
361,668.83

**Easting:**
244,355.13

**Tide (feet):**
4.60



## Hole: K39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:23:55 | 34.78 | 30.18 | 1,142 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 13:23:55 | 35.11 | 30.51 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:56 | 35.43 | 30.83 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:56 | 35.76 | 31.16 | 1,149 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:56 | 36.09 | 31.49 | 1,149 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:56 | 36.42 | 31.82 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:23:57 | 36.75 | 32.15 | 1,152 | 1.14 | 0.29 | 63.0 |
| 4/30/2015 13:23:57 | 37.07 | 32.47 | 1,152 | 1.14 | 0.29 | 63.0 |
| 4/30/2015 13:23:57 | 37.40 | 32.80 | 1,155 | 1.14 | 0.29 | 63.2 |
| 4/30/2015 13:23:58 | 37.73 | 33.13 | 1,155 | 1.14 | 0.29 | 63.2 |
| 4/30/2015 13:23:58 | 38.06 | 33.46 | 1,146 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 13:23:58 | 38.39 | 33.79 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:59 | 38.71 | 34.11 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:23:59 | 39.04 | 34.44 | 1,146 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 13:23:59 | 39.37 | 34.77 | 1,146 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 13:23:59 | 39.70 | 35.10 | 1,143 | 1.14 | 0.29 | 62.5 |
| 4/30/2015 13:24:00 | 40.03 | 35.43 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:24:00 | 40.35 | 35.75 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:24:00 | 40.68 | 36.08 | 1,149 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:24:01 | 41.01 | 36.41 | 1,149 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 13:24:01 | 41.34 | 36.74 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:24:01 | 41.67 | 37.07 | 1,146 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 13:24:02 | 41.99 | 37.39 | 1,146 | 1.14 | 0.29 | 62.7 |
| 4/30/2015 13:24:02 | 42.32 | 37.72 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:03 | 42.65 | 38.05 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:03 | 42.98 | 38.38 | 1,140 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 13:24:03 | 43.31 | 38.71 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 13:24:04 | 43.64 | 39.04 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 13:24:04 | 43.96 | 39.36 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:04 | 44.29 | 39.69 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:04 | 44.62 | 40.02 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 13:24:05 | 44.95 | 40.35 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:05 | 45.28 | 40.68 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:05 | 45.60 | 41.00 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 13:24:06 | 45.93 | 41.33 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:06 | 46.26 | 41.66 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:06 | 46.59 | 41.99 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 13:24:07 | 46.92 | 42.32 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 13:24:07 | 47.24 | 42.64 | 1,144 | 1.14 | 0.29 | 62.5 |
| 4/30/2015 13:24:07 | 47.57 | 42.97 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:08 | 47.90 | 43.30 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:08 | 48.23 | 43.63 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:08 | 48.56 | 43.96 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:24:08 | 48.88 | 44.28 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 13:24:09 | 49.21 | 44.61 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 13:24:09 | 49.54 | 44.94 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 13:24:27 | 49.87 | 45.27 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 13:24:28 | 50.20 | 45.60 | 118 | 1.14 | 0.29 | 6.5 |
| 4/30/2015 13:24:30 | 50.53 | 45.93 | 266 | 1.14 | 0.29 | 14.5 |
| 4/30/2015 13:24:52 | 50.85 | 46.25 | 111 | 1.14 | 0.29 | 6.1 |
| 4/30/2015 13:24:55 | 51.18 | 46.58 | 117 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 13:24:58 | 51.51 | 46.91 | 118 | 1.14 | 0.29 | 6.5 |
| 4/30/2015 13:25:37 | 51.84 | 47.24 | 15 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 13:25:39 | 52.17 | 47.57 | 146 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 13:25:50 | 52.49 | 47.89 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 13:25:58 | 52.82 | 48.22 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 13:26:08 | 53.15 | 48.55 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 13:26:18 | 53.48 | 48.88 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 13:26:24 | 53.67 | 49.07 | 35 | 1.14 | 0.29 | 1.9 |

## K39 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:22:43

**End Date:**
4/30/2015 13:27:47

**Operator Note:**
'4.6 5.0 c Auto Complete'

**Northing:**
361,717.45

**Easting:**
244,412.36

**Tide (feet):**
4.60



## Hole: K4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:59:18 | 34.12 | 30.12 | 1,241 | 0.29 | 0.37 | 67.9 |
| 4/30/2015 13:59:18 | 34.45 | 30.45 | 1,232 | 0.27 | 0.36 | 67.4 |
| 4/30/2015 13:59:19 | 34.78 | 30.78 | 1,232 | 0.27 | 0.36 | 67.4 |
| 4/30/2015 13:59:19 | 35.11 | 31.11 | 1,242 | 0.28 | 0.38 | 67.9 |
| 4/30/2015 13:59:19 | 35.43 | 31.43 | 1,242 | 0.28 | 0.38 | 67.9 |
| 4/30/2015 13:59:19 | 35.76 | 31.76 | 1,230 | 0.26 | 0.41 | 67.3 |
| 4/30/2015 13:59:28 | 36.09 | 32.09 | 0 | 3.18 | 0.43 | 0.0 |
| 4/30/2015 13:59:30 | 36.42 | 32.42 | 123 | 5.23 | 0.46 | 6.7 |
| 4/30/2015 13:59:31 | 36.75 | 32.75 | 202 | 3.85 | 0.46 | 11.1 |
| 4/30/2015 13:59:37 | 37.07 | 33.07 | 57 | 4.69 | 0.45 | 3.1 |
| 4/30/2015 13:59:37 | 37.40 | 33.40 | 95 | 3.39 | 0.43 | 5.2 |
| 4/30/2015 13:59:43 | 37.73 | 33.73 | 0 | 4.30 | 0.35 | 0.0 |
| 4/30/2015 13:59:45 | 38.06 | 34.06 | 94 | 3.45 | 0.43 | 5.1 |
| 4/30/2015 13:59:48 | 38.39 | 34.39 | 0 | 2.29 | 0.38 | 0.0 |
| 4/30/2015 13:59:49 | 38.71 | 34.71 | 42 | 3.96 | 0.47 | 2.3 |
| 4/30/2015 13:59:51 | 39.04 | 35.04 | 198 | 2.92 | 0.45 | 10.8 |
| 4/30/2015 13:59:53 | 39.37 | 35.37 | 155 | 2.95 | 0.45 | 8.5 |
| 4/30/2015 13:59:54 | 39.70 | 35.70 | 151 | 2.47 | 0.42 | 8.3 |
| 4/30/2015 13:59:55 | 40.03 | 36.03 | 220 | 3.46 | 0.43 | 12.0 |
| 4/30/2015 13:59:59 | 40.35 | 36.35 | 20 | 3.73 | 0.42 | 1.1 |
| 4/30/2015 14:00:04 | 40.68 | 36.68 | 40 | 4.17 | 0.44 | 2.2 |
| 4/30/2015 14:00:05 | 41.01 | 37.01 | 136 | 3.90 | 0.44 | 7.4 |
| 4/30/2015 14:00:11 | 41.34 | 37.34 | 17 | 3.90 | 0.45 | 0.9 |
| 4/30/2015 14:01:26 | 41.67 | 37.67 | 11 | 2.53 | 0.47 | 0.6 |
| 4/30/2015 14:01:36 | 41.99 | 37.99 | 34 | 2.67 | 0.46 | 1.9 |
| 4/30/2015 14:01:43 | 42.32 | 38.32 | 61 | 2.80 | 0.47 | 3.4 |
| 4/30/2015 14:01:49 | 42.65 | 38.65 | 29 | 2.40 | 0.48 | 1.6 |
| 4/30/2015 14:02:01 | 42.98 | 38.98 | 34 | 2.41 | 0.46 | 1.9 |
| 4/30/2015 14:02:11 | 43.31 | 39.31 | 64 | 2.79 | 0.48 | 3.5 |
| 4/30/2015 14:02:19 | 43.56 | 39.56 | 32 | 2.63 | 0.47 | 1.7 |

## K4 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
4/30/2015 13:56:56

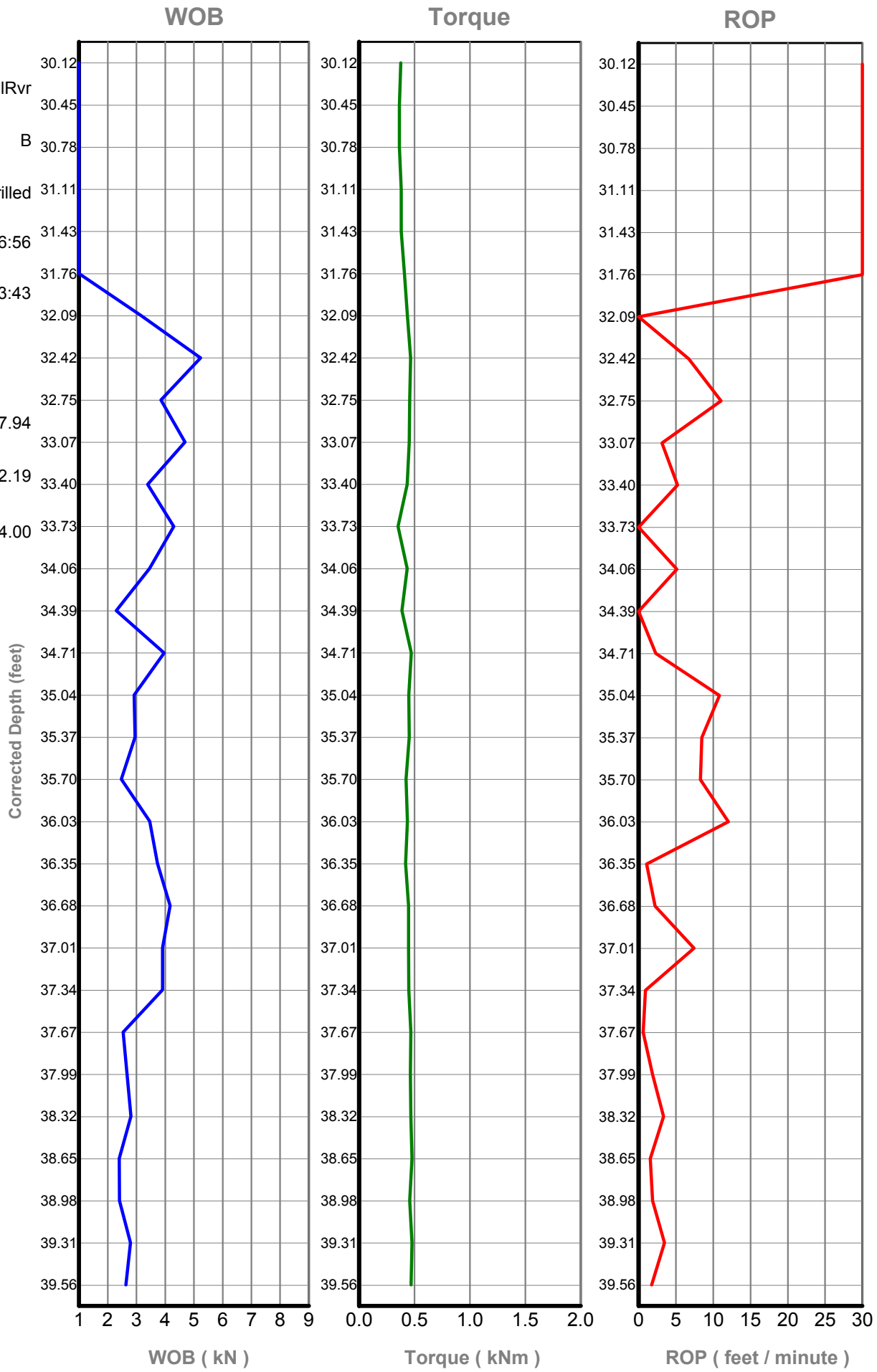
**End Date:**
4/30/2015 14:03:43

**Operator Note:**
'4 4.4 b Auto Complete'

**Northing:**
361,787.94

**Easting:**
244,262.19

**Tide (feet):**
4.00



## Hole: K40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 16:54:14 | 30.84 | 30.14 | 957 | 1.02 | 0.13 | 52.3 |
| 4/29/2015 16:54:14 | 31.17 | 30.47 | 954 | 1.04 | 0.13 | 52.2 |
| 4/29/2015 16:54:15 | 31.50 | 30.80 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 16:54:15 | 31.82 | 31.12 | 957 | 1.05 | 0.13 | 52.3 |
| 4/29/2015 16:54:16 | 32.15 | 31.45 | 957 | 1.05 | 0.13 | 52.3 |
| 4/29/2015 16:54:16 | 32.48 | 31.78 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 16:54:16 | 32.81 | 32.11 | 951 | 1.03 | 0.13 | 52.0 |
| 4/29/2015 16:54:17 | 33.14 | 32.44 | 951 | 1.03 | 0.13 | 52.0 |
| 4/29/2015 16:54:17 | 33.46 | 32.76 | 948 | 1.03 | 0.13 | 51.9 |
| 4/29/2015 16:54:17 | 33.79 | 33.09 | 954 | 1.05 | 0.13 | 52.2 |
| 4/29/2015 16:54:18 | 34.12 | 33.42 | 951 | 1.03 | 0.13 | 52.0 |
| 4/29/2015 16:54:18 | 34.45 | 33.75 | 951 | 1.03 | 0.13 | 52.0 |
| 4/29/2015 16:54:18 | 34.78 | 34.08 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 16:54:19 | 35.11 | 34.41 | 948 | 1.05 | 0.13 | 51.8 |
| 4/29/2015 16:54:19 | 35.43 | 34.73 | 951 | 1.02 | 0.13 | 52.0 |
| 4/29/2015 16:54:20 | 35.76 | 35.06 | 951 | 1.02 | 0.13 | 52.0 |
| 4/29/2015 16:54:20 | 36.09 | 35.39 | 948 | 1.04 | 0.13 | 51.8 |
| 4/29/2015 16:54:20 | 36.42 | 35.72 | 928 | 1.05 | 0.13 | 50.7 |
| 4/29/2015 16:54:21 | 36.75 | 36.05 | 928 | 1.05 | 0.13 | 50.7 |
| 4/29/2015 16:54:21 | 37.07 | 36.37 | 928 | 1.03 | 0.13 | 50.7 |
| 4/29/2015 16:54:21 | 37.40 | 36.70 | 937 | 1.01 | 0.13 | 51.2 |
| 4/29/2015 16:54:22 | 37.73 | 37.03 | 943 | 1.02 | 0.13 | 51.6 |
| 4/29/2015 16:54:23 | 38.06 | 37.36 | 943 | 1.02 | 0.13 | 51.6 |
| 4/29/2015 16:54:23 | 38.39 | 37.69 | 946 | 1.05 | 0.13 | 51.7 |
| 4/29/2015 16:54:23 | 38.71 | 38.01 | 943 | 0.82 | 0.13 | 51.6 |
| 4/29/2015 16:54:24 | 39.04 | 38.34 | 943 | 0.82 | 0.13 | 51.6 |
| 4/29/2015 16:54:24 | 39.37 | 38.67 | 963 | 1.05 | 0.13 | 52.7 |
| 4/29/2015 16:54:24 | 39.70 | 39.00 | 957 | 1.04 | 0.13 | 52.3 |
| 4/29/2015 16:54:25 | 40.03 | 39.33 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 16:54:25 | 40.35 | 39.65 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 16:54:25 | 40.68 | 39.98 | 942 | 1.03 | 0.13 | 51.5 |
| 4/29/2015 16:54:26 | 41.01 | 40.31 | 951 | 1.05 | 0.13 | 52.0 |
| 4/29/2015 16:54:26 | 41.34 | 40.64 | 948 | 1.05 | 0.13 | 51.9 |
| 4/29/2015 16:54:27 | 41.67 | 40.97 | 948 | 1.05 | 0.13 | 51.9 |
| 4/29/2015 16:54:27 | 41.99 | 41.29 | 945 | 1.04 | 0.13 | 51.7 |
| 4/29/2015 16:54:27 | 42.32 | 41.62 | 945 | 1.05 | 0.13 | 51.7 |
| 4/29/2015 16:54:28 | 42.65 | 41.95 | 945 | 1.05 | 0.13 | 51.7 |
| 4/29/2015 16:54:28 | 42.98 | 42.28 | 948 | 1.02 | 0.12 | 51.9 |
| 4/29/2015 16:54:28 | 43.31 | 42.61 | 942 | 1.05 | 0.19 | 51.5 |
| 4/29/2015 16:54:29 | 43.64 | 42.94 | 945 | 1.04 | 0.12 | 51.7 |
| 4/29/2015 16:54:29 | 43.96 | 43.26 | 945 | 1.04 | 0.12 | 51.7 |
| 4/29/2015 16:54:35 | 44.29 | 43.59 | 3 | 1.40 | 0.72 | 0.2 |
| 4/29/2015 16:54:36 | 44.62 | 43.92 | 76 | 1.10 | 0.85 | 4.1 |
| 4/29/2015 16:54:39 | 44.95 | 44.25 | 197 | 1.11 | 1.01 | 10.8 |
| 4/29/2015 16:54:46 | 45.28 | 44.58 | 50 | 1.13 | 1.31 | 2.7 |
| 4/29/2015 16:54:53 | 45.60 | 44.90 | 64 | 1.11 | 1.06 | 3.5 |
| 4/29/2015 16:54:58 | 45.93 | 45.23 | 71 | 1.08 | 1.18 | 3.9 |
| 4/29/2015 16:55:04 | 46.26 | 45.56 | 58 | 1.12 | 1.02 | 3.2 |
| 4/29/2015 16:55:10 | 46.59 | 45.89 | 55 | 1.01 | 1.12 | 3.0 |
| 4/29/2015 16:55:17 | 46.92 | 46.22 | 61 | 1.07 | 1.37 | 3.3 |
| 4/29/2015 16:55:20 | 47.24 | 46.54 | 103 | 1.02 | 1.25 | 5.6 |
| 4/29/2015 16:55:21 | 47.39 | 46.69 | 148 | 0.66 | 1.22 | 8.1 |

## K40 - Summary

**Pattern Number:**
AreaK_Lane14-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 16:52:58

**End Date:**
4/29/2015 16:57:09

**Operator Note:**
'0.7 0.8 a Auto Complete'

**Northing:**
361,767.82

**Easting:**
244,484.72

**Tide (feet):**
0.70



## Hole: K41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:48:30 | 31.50 | 30.10 | 958 | 1.01 | 0.12 | 52.4 |
| 4/29/2015 15:48:30 | 31.82 | 30.42 | 958 | 1.01 | 0.12 | 52.4 |
| 4/29/2015 15:48:30 | 32.15 | 30.75 | 946 | 1.00 | 0.12 | 51.7 |
| 4/29/2015 15:48:31 | 32.48 | 31.08 | 946 | 1.01 | 0.12 | 51.7 |
| 4/29/2015 15:48:31 | 32.81 | 31.41 | 946 | 1.00 | 0.12 | 51.7 |
| 4/29/2015 15:48:32 | 33.14 | 31.74 | 946 | 1.00 | 0.12 | 51.7 |
| 4/29/2015 15:48:32 | 33.46 | 32.06 | 934 | 1.00 | 0.12 | 51.1 |
| 4/29/2015 15:48:32 | 33.79 | 32.39 | 934 | 1.01 | 0.12 | 51.1 |
| 4/29/2015 15:48:33 | 34.12 | 32.72 | 961 | 1.00 | 0.12 | 52.5 |
| 4/29/2015 15:48:33 | 34.45 | 33.05 | 961 | 1.00 | 0.12 | 52.5 |
| 4/29/2015 15:48:33 | 34.78 | 33.38 | 961 | 1.02 | 0.12 | 52.5 |
| 4/29/2015 15:48:34 | 35.11 | 33.71 | 961 | 1.06 | 0.12 | 52.5 |
| 4/29/2015 15:48:34 | 35.43 | 34.03 | 961 | 1.06 | 0.12 | 52.5 |
| 4/29/2015 15:48:34 | 35.76 | 34.36 | 943 | 1.06 | 0.12 | 51.5 |
| 4/29/2015 15:48:35 | 36.09 | 34.69 | 905 | 1.03 | 0.12 | 49.5 |
| 4/29/2015 15:48:35 | 36.42 | 35.02 | 858 | 1.00 | 0.12 | 46.9 |
| 4/29/2015 15:48:36 | 36.75 | 35.35 | 841 | 1.00 | 0.12 | 46.0 |
| 4/29/2015 15:48:37 | 37.07 | 35.67 | 844 | 1.01 | 0.12 | 46.1 |
| 4/29/2015 15:48:37 | 37.40 | 36.00 | 844 | 1.01 | 0.12 | 46.1 |
| 4/29/2015 15:48:37 | 37.73 | 36.33 | 834 | 1.01 | 0.12 | 45.6 |
| 4/29/2015 15:48:38 | 38.06 | 36.66 | 864 | 1.01 | 0.12 | 47.2 |
| 4/29/2015 15:48:38 | 38.39 | 36.99 | 864 | 1.00 | 0.12 | 47.2 |
| 4/29/2015 15:48:39 | 38.71 | 37.31 | 864 | 1.00 | 0.12 | 47.2 |
| 4/29/2015 15:48:39 | 39.04 | 37.64 | 907 | 1.01 | 0.12 | 49.6 |
| 4/29/2015 15:48:39 | 39.37 | 37.97 | 918 | 0.99 | 0.12 | 50.2 |
| 4/29/2015 15:48:40 | 39.70 | 38.30 | 903 | 1.01 | 0.12 | 49.4 |
| 4/29/2015 15:48:40 | 40.03 | 38.63 | 903 | 1.01 | 0.12 | 49.4 |
| 4/29/2015 15:48:40 | 40.35 | 38.95 | 922 | 1.00 | 0.12 | 50.4 |
| 4/29/2015 15:48:41 | 40.68 | 39.28 | 933 | 1.01 | 0.12 | 51.0 |
| 4/29/2015 15:48:41 | 41.01 | 39.61 | 933 | 1.01 | 0.12 | 51.0 |
| 4/29/2015 15:48:41 | 41.34 | 39.94 | 930 | 1.03 | 0.12 | 50.9 |
| 4/29/2015 15:48:42 | 41.67 | 40.27 | 927 | 1.01 | 0.12 | 50.7 |
| 4/29/2015 15:48:42 | 41.99 | 40.59 | 942 | 1.01 | 0.12 | 51.5 |
| 4/29/2015 15:48:43 | 42.32 | 40.92 | 942 | 1.01 | 0.12 | 51.5 |
| 4/29/2015 15:48:43 | 42.65 | 41.25 | 939 | 1.02 | 0.12 | 51.4 |
| 4/29/2015 15:48:43 | 42.98 | 41.58 | 933 | 1.01 | 0.12 | 51.0 |
| 4/29/2015 15:48:44 | 43.31 | 41.91 | 922 | 1.01 | 0.12 | 50.4 |
| 4/29/2015 15:48:44 | 43.64 | 42.24 | 922 | 1.01 | 0.12 | 50.4 |
| 4/29/2015 15:48:44 | 43.96 | 42.56 | 920 | 1.02 | 0.12 | 50.3 |
| 4/29/2015 15:48:45 | 44.29 | 42.89 | 928 | 1.00 | 0.12 | 50.7 |
| 4/29/2015 15:48:45 | 44.62 | 43.22 | 915 | 1.02 | 0.12 | 50.0 |
| 4/29/2015 15:48:46 | 44.95 | 43.55 | 915 | 1.02 | 0.12 | 50.0 |
| 4/29/2015 15:48:46 | 45.28 | 43.88 | 915 | 1.02 | 0.12 | 50.0 |
| 4/29/2015 15:48:47 | 45.60 | 44.20 | 919 | 1.11 | 0.12 | 50.3 |
| 4/29/2015 15:49:05 | 45.93 | 44.53 | 40 | 0.42 | 0.79 | 2.2 |
| 4/29/2015 15:49:11 | 46.26 | 44.86 | 66 | 1.83 | 1.53 | 3.6 |
| 4/29/2015 15:49:15 | 46.59 | 45.19 | 76 | 1.91 | 1.47 | 4.2 |
| 4/29/2015 15:49:20 | 46.92 | 45.52 | 80 | 1.88 | 1.39 | 4.4 |
| 4/29/2015 15:49:23 | 47.24 | 45.84 | 107 | 1.87 | 1.36 | 5.8 |
| 4/29/2015 15:49:26 | 47.57 | 46.17 | 106 | 1.85 | 1.26 | 5.8 |
| 4/29/2015 15:49:29 | 47.90 | 46.50 | 171 | 1.91 | 1.20 | 9.3 |
| 4/29/2015 15:49:32 | 48.23 | 46.83 | 78 | 2.00 | 1.17 | 4.3 |
| 4/29/2015 15:49:37 | 48.56 | 47.16 | 61 | 1.93 | 1.27 | 3.3 |
| 4/29/2015 15:49:43 | 48.88 | 47.48 | 61 | 1.84 | 1.20 | 3.3 |
| 4/29/2015 15:49:48 | 49.21 | 47.81 | 58 | 1.81 | 1.62 | 3.2 |
| 4/29/2015 15:49:55 | 49.54 | 48.14 | 49 | 1.92 | 1.29 | 2.7 |

## K41 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:47:16

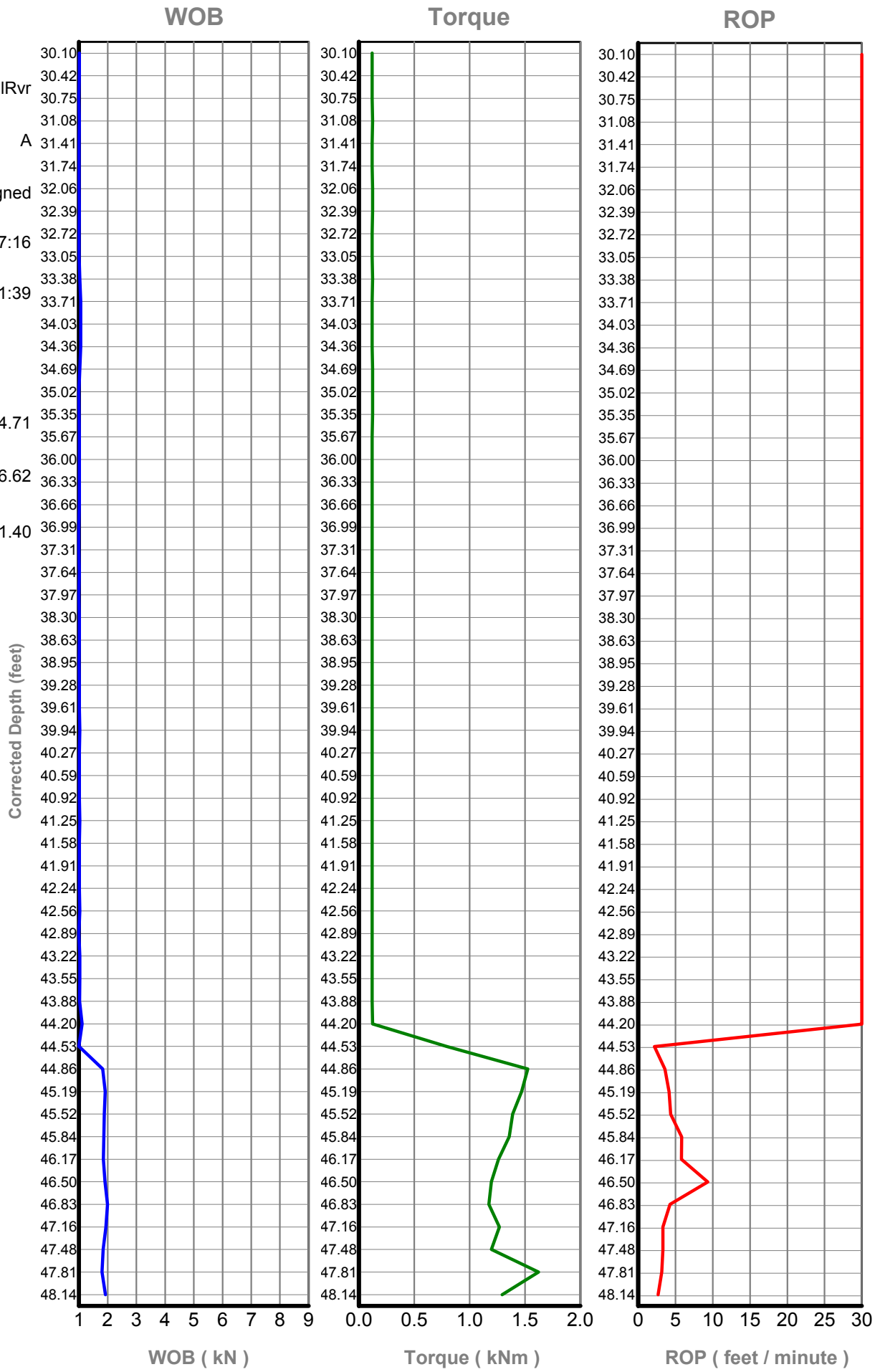
**End Date:**
4/29/2015 15:51:39

**Operator Note:**
'1.4 '1 1.6 a Auto Complete'

**Northing:**
361,824.71

**Easting:**
244,536.62

**Tide (feet):**
1.40



## Hole: K42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 9:45:18 | 36.42 | 30.02 | 1,106 | 1.57 | 0.27 | 60.5 |
| 4/29/2015 9:45:18 | 36.75 | 30.35 | 1,116 | 1.56 | 0.28 | 61.0 |
| 4/29/2015 9:45:19 | 37.07 | 30.67 | 1,116 | 1.58 | 0.28 | 61.0 |
| 4/29/2015 9:45:19 | 37.40 | 31.00 | 1,116 | 1.58 | 0.28 | 61.0 |
| 4/29/2015 9:45:19 | 37.73 | 31.33 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:20 | 38.06 | 31.66 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:20 | 38.39 | 31.99 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:20 | 38.71 | 32.31 | 1,116 | 1.56 | 0.27 | 61.0 |
| 4/29/2015 9:45:21 | 39.04 | 32.64 | 1,116 | 1.56 | 0.27 | 61.0 |
| 4/29/2015 9:45:21 | 39.37 | 32.97 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:22 | 39.70 | 33.30 | 1,113 | 1.57 | 0.27 | 60.9 |
| 4/29/2015 9:45:22 | 40.03 | 33.63 | 1,113 | 1.57 | 0.27 | 60.9 |
| 4/29/2015 9:45:22 | 40.35 | 33.95 | 1,107 | 1.56 | 0.26 | 60.5 |
| 4/29/2015 9:45:23 | 40.68 | 34.28 | 1,107 | 1.56 | 0.26 | 60.5 |
| 4/29/2015 9:45:23 | 41.01 | 34.61 | 1,116 | 1.56 | 0.27 | 61.0 |
| 4/29/2015 9:45:23 | 41.34 | 34.94 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:24 | 41.67 | 35.27 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 9:45:24 | 41.99 | 35.59 | 1,110 | 1.57 | 0.27 | 60.7 |
| 4/29/2015 9:45:24 | 42.32 | 35.92 | 1,106 | 1.56 | 0.27 | 60.5 |
| 4/29/2015 9:45:25 | 42.65 | 36.25 | 1,106 | 1.56 | 0.27 | 60.5 |
| 4/29/2015 9:45:25 | 42.98 | 36.58 | 1,113 | 1.57 | 0.26 | 60.9 |
| 4/29/2015 9:45:25 | 43.31 | 36.91 | 1,113 | 1.57 | 0.26 | 60.9 |
| 4/29/2015 9:45:25 | 43.64 | 37.24 | 1,110 | 1.55 | 0.27 | 60.7 |
| 4/29/2015 9:45:26 | 43.96 | 37.56 | 1,108 | 1.56 | 0.27 | 60.6 |
| 4/29/2015 9:45:26 | 44.29 | 37.89 | 1,108 | 1.56 | 0.27 | 60.6 |
| 4/29/2015 9:45:26 | 44.62 | 38.22 | 1,101 | 1.59 | 0.26 | 60.2 |
| 4/29/2015 9:45:27 | 44.95 | 38.55 | 1,101 | 1.59 | 0.26 | 60.2 |
| 4/29/2015 9:45:27 | 45.28 | 38.88 | 1,114 | 1.57 | 0.26 | 60.9 |
| 4/29/2015 9:45:27 | 45.60 | 39.20 | 1,104 | 1.57 | 0.27 | 60.4 |
| 4/29/2015 9:45:28 | 45.93 | 39.53 | 1,104 | 1.57 | 0.27 | 60.4 |
| 4/29/2015 9:45:28 | 46.26 | 39.86 | 1,101 | 1.57 | 0.26 | 60.2 |
| 4/29/2015 9:45:28 | 46.59 | 40.19 | 1,104 | 1.55 | 0.27 | 60.4 |
| 4/29/2015 9:45:29 | 46.92 | 40.52 | 1,104 | 1.55 | 0.27 | 60.4 |
| 4/29/2015 9:45:29 | 47.24 | 40.84 | 1,114 | 1.57 | 0.26 | 60.9 |
| 4/29/2015 9:45:29 | 47.57 | 41.17 | 1,114 | 1.57 | 0.26 | 60.9 |
| 4/29/2015 9:45:29 | 47.90 | 41.50 | 1,104 | 1.55 | 0.27 | 60.4 |
| 4/29/2015 9:45:30 | 48.23 | 41.83 | 1,104 | 1.57 | 0.27 | 60.4 |
| 4/29/2015 9:45:30 | 48.56 | 42.16 | 1,104 | 1.57 | 0.27 | 60.4 |
| 4/29/2015 9:45:30 | 48.88 | 42.48 | 1,101 | 1.51 | 0.27 | 60.2 |
| 4/29/2015 9:45:31 | 49.21 | 42.81 | 1,101 | 1.61 | 0.27 | 60.2 |
| 4/29/2015 9:45:31 | 49.54 | 43.14 | 1,101 | 1.61 | 0.27 | 60.2 |
| 4/29/2015 9:45:31 | 49.87 | 43.47 | 1,098 | 1.57 | 0.27 | 60.1 |
| 4/29/2015 9:45:32 | 50.20 | 43.80 | 1,098 | 1.57 | 0.27 | 60.1 |
| 4/29/2015 9:45:32 | 50.53 | 44.13 | 1,098 | 1.66 | 0.27 | 60.1 |
| 4/29/2015 9:45:51 | 50.85 | 44.45 | 15 | 1.66 | 1.33 | 0.8 |
| 4/29/2015 9:45:52 | 51.18 | 44.78 | 135 | 1.60 | 1.17 | 7.4 |
| 4/29/2015 9:45:59 | 51.51 | 45.11 | 32 | 1.69 | 1.24 | 1.7 |
| 4/29/2015 9:46:41 | 51.84 | 45.44 | 35 | 1.69 | 1.15 | 1.9 |
| 4/29/2015 9:46:53 | 52.17 | 45.77 | 32 | 1.65 | 1.08 | 1.7 |
| 4/29/2015 9:47:04 | 52.49 | 46.09 | 38 | 1.68 | 1.17 | 2.1 |
| 4/29/2015 9:47:14 | 52.82 | 46.42 | 38 | 1.67 | 1.19 | 2.1 |
| 4/29/2015 9:47:19 | 52.99 | 46.59 | 32 | 1.67 | 1.17 | 1.7 |

## K42 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:43:56

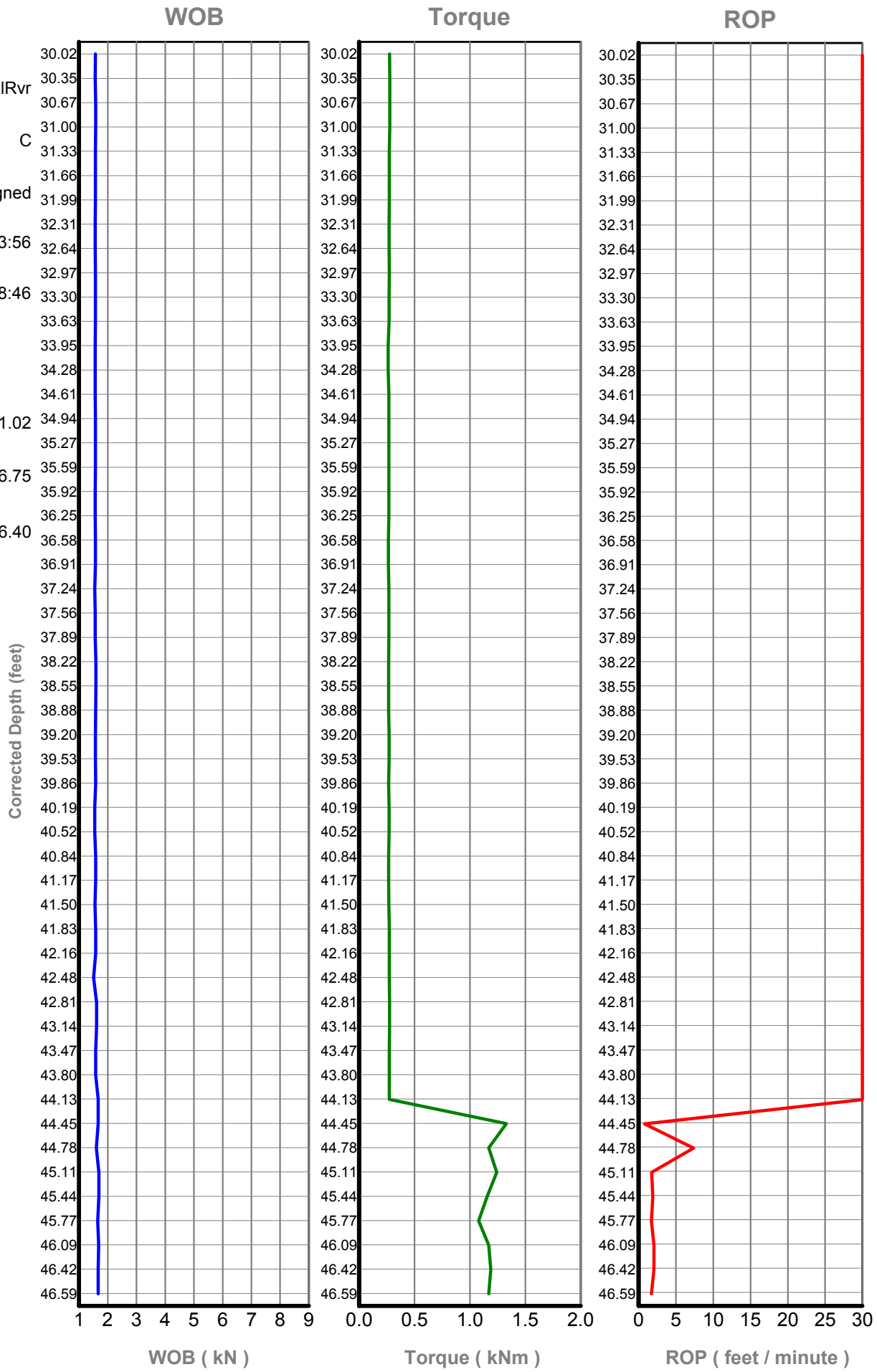
**End Date:**
4/29/2015 9:48:46

**Operator Note:**
'6.4 6.3 C Auto Complete'

**Northing:**
362,081.02

**Easting:**
244,846.75

**Tide (feet):**
6.40



## Hole: K43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 9:59:05 | 36.42 | 30.02 | 1,104 | 1.56 | 0.28 | 60.4 |
| 4/29/2015 9:59:05 | 36.75 | 30.35 | 1,104 | 1.57 | 0.28 | 60.4 |
| 4/29/2015 9:59:06 | 37.07 | 30.67 | 1,104 | 1.57 | 0.28 | 60.4 |
| 4/29/2015 9:59:06 | 37.40 | 31.00 | 1,103 | 1.55 | 0.28 | 60.3 |
| 4/29/2015 9:59:06 | 37.73 | 31.33 | 1,110 | 1.55 | 0.27 | 60.7 |
| 4/29/2015 9:59:07 | 38.06 | 31.66 | 1,110 | 1.55 | 0.27 | 60.7 |
| 4/29/2015 9:59:07 | 38.39 | 31.99 | 1,107 | 1.55 | 0.28 | 60.5 |
| 4/29/2015 9:59:07 | 38.71 | 32.31 | 1,107 | 1.56 | 0.28 | 60.5 |
| 4/29/2015 9:59:08 | 39.04 | 32.64 | 1,107 | 1.56 | 0.28 | 60.5 |
| 4/29/2015 9:59:08 | 39.37 | 32.97 | 1,107 | 1.56 | 0.28 | 60.5 |
| 4/29/2015 9:59:08 | 39.70 | 33.30 | 1,107 | 1.56 | 0.28 | 60.5 |
| 4/29/2015 9:59:08 | 40.03 | 33.63 | 1,117 | 1.57 | 0.29 | 61.1 |
| 4/29/2015 9:59:09 | 40.35 | 33.95 | 1,110 | 1.56 | 0.28 | 60.7 |
| 4/29/2015 9:59:09 | 40.68 | 34.28 | 1,110 | 1.56 | 0.28 | 60.7 |
| 4/29/2015 9:59:09 | 41.01 | 34.61 | 1,117 | 1.57 | 0.28 | 61.1 |
| 4/29/2015 9:59:10 | 41.34 | 34.94 | 1,117 | 1.57 | 0.28 | 61.1 |
| 4/29/2015 9:59:10 | 41.67 | 35.27 | 1,107 | 1.57 | 0.28 | 60.5 |
| 4/29/2015 9:59:10 | 41.99 | 35.59 | 1,104 | 1.57 | 0.28 | 60.4 |
| 4/29/2015 9:59:11 | 42.32 | 35.92 | 1,104 | 1.57 | 0.28 | 60.4 |
| 4/29/2015 9:59:11 | 42.65 | 36.25 | 1,105 | 1.58 | 0.28 | 60.4 |
| 4/29/2015 9:59:11 | 42.98 | 36.58 | 1,102 | 1.57 | 0.27 | 60.3 |
| 4/29/2015 9:59:12 | 43.31 | 36.91 | 1,102 | 1.57 | 0.27 | 60.3 |
| 4/29/2015 9:59:12 | 43.64 | 37.24 | 1,083 | 1.59 | 0.28 | 59.2 |
| 4/29/2015 9:59:12 | 43.96 | 37.56 | 1,083 | 1.59 | 0.28 | 59.2 |
| 4/29/2015 9:59:12 | 44.29 | 37.89 | 1,083 | 1.57 | 0.27 | 59.2 |
| 4/29/2015 9:59:13 | 44.62 | 38.22 | 1,095 | 1.57 | 0.27 | 59.9 |
| 4/29/2015 9:59:13 | 44.95 | 38.55 | 1,095 | 1.57 | 0.27 | 59.9 |
| 4/29/2015 9:59:13 | 45.28 | 38.88 | 1,105 | 1.56 | 0.28 | 60.4 |
| 4/29/2015 9:59:14 | 45.60 | 39.20 | 1,091 | 1.56 | 0.27 | 59.7 |
| 4/29/2015 9:59:15 | 45.93 | 39.53 | 1,091 | 1.56 | 0.27 | 59.7 |
| 4/29/2015 9:59:14 | 46.26 | 39.86 | 1,097 | 1.57 | 0.27 | 60.0 |
| 4/29/2015 9:59:15 | 46.59 | 40.19 | 1,097 | 1.57 | 0.27 | 60.0 |
| 4/29/2015 9:59:15 | 46.92 | 40.52 | 1,116 | 1.58 | 0.27 | 61.0 |
| 4/29/2015 9:59:16 | 47.24 | 40.84 | 1,104 | 1.58 | 0.27 | 60.4 |
| 4/29/2015 9:59:16 | 47.57 | 41.17 | 1,104 | 1.58 | 0.27 | 60.4 |
| 4/29/2015 9:59:16 | 47.90 | 41.50 | 1,095 | 1.57 | 0.28 | 59.9 |
| 4/29/2015 9:59:17 | 48.23 | 41.83 | 1,104 | 1.59 | 0.27 | 60.4 |
| 4/29/2015 9:59:17 | 48.56 | 42.16 | 1,104 | 1.59 | 0.27 | 60.4 |
| 4/29/2015 9:59:17 | 48.88 | 42.48 | 1,099 | 1.57 | 0.28 | 60.1 |
| 4/29/2015 9:59:18 | 49.21 | 42.81 | 1,099 | 1.57 | 0.28 | 60.1 |
| 4/29/2015 9:59:18 | 49.54 | 43.14 | 1,096 | 1.57 | 0.28 | 59.9 |
| 4/29/2015 9:59:18 | 49.87 | 43.47 | 1,078 | 1.56 | 0.28 | 58.9 |
| 4/29/2015 9:59:19 | 50.20 | 43.80 | 1,078 | 1.56 | 0.28 | 58.9 |
| 4/29/2015 9:59:19 | 50.53 | 44.13 | 1,090 | 1.53 | 0.28 | 59.6 |
| 4/29/2015 9:59:19 | 50.85 | 44.45 | 1,090 | 1.57 | 0.28 | 59.6 |
| 4/29/2015 9:59:20 | 51.18 | 44.78 | 1,090 | 1.57 | 0.28 | 59.6 |
| 4/29/2015 9:59:20 | 51.51 | 45.11 | 1,088 | 1.58 | 0.28 | 59.5 |
| 4/29/2015 9:59:20 | 51.84 | 45.44 | 1,088 | 1.58 | 0.28 | 59.5 |
| 4/29/2015 9:59:42 | 52.17 | 45.77 | 21 | 1.63 | 1.07 | 1.1 |
| 4/29/2015 9:59:42 | 52.49 | 46.09 | 141 | 1.66 | 1.04 | 7.7 |
| 4/29/2015 9:59:43 | 52.82 | 46.42 | 260 | 1.64 | 1.24 | 14.2 |
| 4/29/2015 9:59:45 | 53.15 | 46.75 | 372 | 1.68 | 1.17 | 20.3 |
| 4/29/2015 10:00:01 | 53.48 | 47.08 | 63 | 1.66 | 1.19 | 3.4 |
| 4/29/2015 10:00:10 | 53.81 | 47.41 | 49 | 1.68 | 1.25 | 2.7 |
| 4/29/2015 10:00:15 | 54.13 | 47.73 | 61 | 1.68 | 1.13 | 3.3 |
| 4/29/2015 10:00:23 | 54.46 | 48.06 | 45 | 1.66 | 1.09 | 2.5 |
| 4/29/2015 10:00:29 | 54.79 | 48.39 | 65 | 1.68 | 1.25 | 3.6 |
| 4/29/2015 10:00:32 | 54.94 | 48.54 | 48 | 1.69 | 1.18 | 2.6 |

## K43 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:57:49

**End Date:**
4/29/2015 10:02:14

**Operator Note:**
'6.4 6.4 C Auto Complete'

**Northing:**
362,132.06

**Easting:**
244,893.93

**Tide (feet):**
6.40



## Hole: K44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:11:50 | 36.42 | 30.02 | 1,061 | 1.57 | 0.27 | 58.0 |
| 4/29/2015 10:11:50 | 36.75 | 30.35 | 1,057 | 1.55 | 0.28 | 57.8 |
| 4/29/2015 10:11:51 | 37.07 | 30.67 | 1,057 | 1.55 | 0.28 | 57.8 |
| 4/29/2015 10:11:51 | 37.40 | 31.00 | 1,033 | 1.55 | 0.28 | 56.5 |
| 4/29/2015 10:11:51 | 37.73 | 31.33 | 1,033 | 1.57 | 0.28 | 56.5 |
| 4/29/2015 10:11:52 | 38.06 | 31.66 | 1,033 | 1.57 | 0.28 | 56.5 |
| 4/29/2015 10:11:52 | 38.39 | 31.99 | 1,050 | 1.55 | 0.27 | 57.4 |
| 4/29/2015 10:11:52 | 38.71 | 32.31 | 1,046 | 1.61 | 0.27 | 57.2 |
| 4/29/2015 10:11:53 | 39.04 | 32.64 | 1,046 | 1.61 | 0.27 | 57.2 |
| 4/29/2015 10:11:53 | 39.37 | 32.97 | 1,059 | 1.54 | 0.27 | 57.9 |
| 4/29/2015 10:11:53 | 39.70 | 33.30 | 1,067 | 1.57 | 0.27 | 58.4 |
| 4/29/2015 10:11:54 | 40.03 | 33.63 | 1,067 | 1.57 | 0.27 | 58.4 |
| 4/29/2015 10:11:54 | 40.35 | 33.95 | 1,100 | 1.58 | 0.27 | 60.1 |
| 4/29/2015 10:11:55 | 40.68 | 34.28 | 1,100 | 1.58 | 0.27 | 60.1 |
| 4/29/2015 10:11:55 | 41.01 | 34.61 | 1,086 | 1.55 | 0.27 | 59.4 |
| 4/29/2015 10:11:55 | 41.34 | 34.94 | 1,092 | 1.55 | 0.28 | 59.7 |
| 4/29/2015 10:11:56 | 41.67 | 35.27 | 1,092 | 1.55 | 0.28 | 59.7 |
| 4/29/2015 10:11:56 | 41.99 | 35.59 | 1,098 | 1.57 | 0.26 | 60.0 |
| 4/29/2015 10:11:56 | 42.32 | 35.92 | 1,096 | 1.58 | 0.27 | 59.9 |
| 4/29/2015 10:11:57 | 42.65 | 36.25 | 1,096 | 1.58 | 0.27 | 59.9 |
| 4/29/2015 10:11:57 | 42.98 | 36.58 | 1,084 | 1.56 | 0.28 | 59.3 |
| 4/29/2015 10:11:57 | 43.31 | 36.91 | 1,084 | 1.56 | 0.28 | 59.3 |
| 4/29/2015 10:11:57 | 43.64 | 37.24 | 1,084 | 1.55 | 0.27 | 59.3 |
| 4/29/2015 10:11:58 | 43.96 | 37.56 | 1,095 | 1.55 | 0.27 | 59.9 |
| 4/29/2015 10:11:58 | 44.29 | 37.89 | 1,095 | 1.55 | 0.27 | 59.9 |
| 4/29/2015 10:11:58 | 44.62 | 38.22 | 1,101 | 1.56 | 0.28 | 60.2 |
| 4/29/2015 10:11:59 | 44.95 | 38.55 | 1,094 | 1.55 | 0.28 | 59.8 |
| 4/29/2015 10:11:59 | 45.28 | 38.88 | 1,094 | 1.55 | 0.28 | 59.8 |
| 4/29/2015 10:11:59 | 45.60 | 39.20 | 1,106 | 1.55 | 0.28 | 60.5 |
| 4/29/2015 10:12:00 | 45.93 | 39.53 | 1,106 | 1.55 | 0.28 | 60.5 |
| 4/29/2015 10:12:00 | 46.26 | 39.86 | 1,124 | 1.57 | 0.27 | 61.5 |
| 4/29/2015 10:12:00 | 46.59 | 40.19 | 1,122 | 1.55 | 0.27 | 61.4 |
| 4/29/2015 10:12:01 | 46.92 | 40.52 | 1,122 | 1.55 | 0.27 | 61.4 |
| 4/29/2015 10:12:01 | 47.24 | 40.84 | 1,119 | 1.56 | 0.27 | 61.2 |
| 4/29/2015 10:12:01 | 47.57 | 41.17 | 1,119 | 1.56 | 0.27 | 61.2 |
| 4/29/2015 10:12:01 | 47.90 | 41.50 | 1,128 | 1.59 | 0.27 | 61.7 |
| 4/29/2015 10:12:02 | 48.23 | 41.83 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 10:12:03 | 48.56 | 42.16 | 1,116 | 1.57 | 0.27 | 61.0 |
| 4/29/2015 10:12:02 | 48.88 | 42.48 | 1,080 | 1.55 | 0.27 | 59.1 |
| 4/29/2015 10:12:03 | 49.21 | 42.81 | 1,080 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 10:12:03 | 49.54 | 43.14 | 1,080 | 1.57 | 0.28 | 59.1 |
| 4/29/2015 10:12:03 | 49.87 | 43.47 | 1,089 | 1.57 | 0.28 | 59.5 |
| 4/29/2015 10:12:04 | 50.20 | 43.80 | 1,089 | 1.57 | 0.28 | 59.5 |
| 4/29/2015 10:12:04 | 50.53 | 44.13 | 1,089 | 1.56 | 0.27 | 59.5 |
| 4/29/2015 10:12:05 | 50.85 | 44.45 | 1,101 | 1.57 | 0.27 | 60.2 |
| 4/29/2015 10:12:05 | 51.18 | 44.78 | 1,101 | 1.57 | 0.27 | 60.2 |
| 4/29/2015 10:12:05 | 51.51 | 45.11 | 1,079 | 1.57 | 0.27 | 59.0 |
| 4/29/2015 10:12:05 | 51.84 | 45.44 | 1,079 | 1.57 | 0.27 | 59.0 |
| 4/29/2015 10:12:23 | 52.17 | 45.77 | 18 | 1.61 | 1.27 | 1.0 |
| 4/29/2015 10:12:24 | 52.49 | 46.09 | 203 | 1.67 | 1.11 | 11.1 |
| 4/29/2015 10:12:25 | 52.82 | 46.42 | 338 | 1.66 | 1.15 | 18.5 |
| 4/29/2015 10:12:31 | 53.15 | 46.75 | 66 | 1.66 | 1.21 | 3.6 |
| 4/29/2015 10:12:52 | 53.48 | 47.08 | 70 | 1.68 | 1.21 | 3.8 |
| 4/29/2015 10:12:57 | 53.81 | 47.41 | 75 | 1.67 | 1.21 | 4.1 |
| 4/29/2015 10:13:03 | 54.13 | 47.73 | 58 | 1.67 | 1.19 | 3.2 |
| 4/29/2015 10:13:10 | 54.46 | 48.06 | 63 | 1.67 | 1.17 | 3.4 |
| 4/29/2015 10:13:19 | 54.79 | 48.39 | 36 | 1.69 | 1.13 | 2.0 |
| 4/29/2015 10:13:20 | 54.83 | 48.43 | 39 | 1.68 | 1.13 | 2.1 |

## K44 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:10:43

**End Date:**
4/29/2015 10:15:02

**Operator Note:**
'6.4 6.4 C Auto Complete'

**Northing:**
362,181.87

**Easting:**
244,946.71

**Tide (feet):**
6.40



## Hole: K45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:21:17 | 30.84 | 30.14 | 768 | 1.11 | 0.20 | 42.0 |
| 4/30/2015 5:21:17 | 31.17 | 30.47 | 768 | 1.11 | 0.20 | 42.0 |
| 4/30/2015 5:21:17 | 31.50 | 30.80 | 763 | 1.11 | 0.20 | 41.7 |
| 4/30/2015 5:21:18 | 31.82 | 31.12 | 752 | 1.12 | 0.20 | 41.1 |
| 4/30/2015 5:21:18 | 32.15 | 31.45 | 752 | 1.11 | 0.20 | 41.1 |
| 4/30/2015 5:21:19 | 32.48 | 31.78 | 759 | 1.11 | 0.20 | 41.5 |
| 4/30/2015 5:21:19 | 32.81 | 32.11 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:20 | 33.14 | 32.44 | 756 | 1.11 | 0.20 | 41.3 |
| 4/30/2015 5:21:20 | 33.46 | 32.76 | 753 | 1.11 | 0.20 | 41.2 |
| 4/30/2015 5:21:21 | 33.79 | 33.09 | 772 | 1.11 | 0.20 | 42.2 |
| 4/30/2015 5:21:21 | 34.12 | 33.42 | 760 | 1.12 | 0.19 | 41.6 |
| 4/30/2015 5:21:22 | 34.45 | 33.75 | 760 | 1.12 | 0.19 | 41.6 |
| 4/30/2015 5:21:22 | 34.78 | 34.08 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:22 | 35.11 | 34.41 | 760 | 1.11 | 0.19 | 41.6 |
| 4/30/2015 5:21:23 | 35.43 | 34.73 | 763 | 1.12 | 0.20 | 41.7 |
| 4/30/2015 5:21:23 | 35.76 | 35.06 | 757 | 1.12 | 0.20 | 41.4 |
| 4/30/2015 5:21:24 | 36.09 | 35.39 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:24 | 36.42 | 35.72 | 756 | 1.11 | 0.20 | 41.3 |
| 4/30/2015 5:21:25 | 36.75 | 36.05 | 763 | 1.11 | 0.19 | 41.7 |
| 4/30/2015 5:21:25 | 37.07 | 36.37 | 763 | 1.10 | 0.20 | 41.7 |
| 4/30/2015 5:21:26 | 37.40 | 36.70 | 763 | 1.11 | 0.20 | 41.7 |
| 4/30/2015 5:21:26 | 37.73 | 37.03 | 763 | 1.11 | 0.20 | 41.7 |
| 4/30/2015 5:21:26 | 38.06 | 37.36 | 763 | 1.11 | 0.20 | 41.7 |
| 4/30/2015 5:21:27 | 38.39 | 37.69 | 766 | 1.11 | 0.20 | 41.9 |
| 4/30/2015 5:21:28 | 38.71 | 38.01 | 763 | 1.12 | 0.20 | 41.7 |
| 4/30/2015 5:21:28 | 39.04 | 38.34 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:29 | 39.37 | 38.67 | 759 | 1.11 | 0.20 | 41.5 |
| 4/30/2015 5:21:29 | 39.70 | 39.00 | 763 | 1.12 | 0.19 | 41.7 |
| 4/30/2015 5:21:30 | 40.03 | 39.33 | 760 | 1.13 | 0.20 | 41.6 |
| 4/30/2015 5:21:30 | 40.35 | 39.65 | 760 | 1.10 | 0.20 | 41.6 |
| 4/30/2015 5:21:31 | 40.68 | 39.98 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:31 | 41.01 | 40.31 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:31 | 41.34 | 40.64 | 760 | 1.11 | 0.20 | 41.6 |
| 4/30/2015 5:21:32 | 41.67 | 40.97 | 757 | 1.11 | 0.20 | 41.4 |
| 4/30/2015 5:21:32 | 41.99 | 41.29 | 757 | 1.11 | 0.20 | 41.4 |
| 4/30/2015 5:21:33 | 42.32 | 41.62 | 750 | 1.09 | 0.20 | 41.0 |
| 4/30/2015 5:21:33 | 42.65 | 41.95 | 757 | 1.10 | 0.20 | 41.4 |
| 4/30/2015 5:21:34 | 42.98 | 42.28 | 757 | 1.09 | 0.19 | 41.4 |
| 4/30/2015 5:21:34 | 43.31 | 42.61 | 757 | 1.12 | 0.20 | 41.4 |
| 4/30/2015 5:21:35 | 43.64 | 42.94 | 757 | 1.28 | 0.20 | 41.4 |
| 4/30/2015 5:21:35 | 43.96 | 43.26 | 760 | 1.10 | 0.20 | 41.6 |
| 4/30/2015 5:21:36 | 44.29 | 43.59 | 757 | 1.13 | 0.19 | 41.4 |
| 4/30/2015 5:21:37 | 44.62 | 43.92 | 757 | 1.13 | 0.19 | 41.4 |
| 4/30/2015 5:21:36 | 44.95 | 44.25 | 742 | 1.11 | 0.20 | 40.6 |
| 4/30/2015 5:21:37 | 45.28 | 44.58 | 742 | 1.12 | 0.20 | 40.6 |
| 4/30/2015 5:22:14 | 45.60 | 44.90 | 25 | 1.17 | 1.23 | 1.4 |
| 4/30/2015 5:22:17 | 45.93 | 45.23 | 54 | 1.09 | 1.03 | 3.0 |
| 4/30/2015 5:22:18 | 46.26 | 45.56 | 235 | 1.11 | 1.86 | 12.8 |
| 4/30/2015 5:22:20 | 46.59 | 45.89 | 351 | 1.23 | 1.08 | 19.2 |
| 4/30/2015 5:22:30 | 46.92 | 46.22 | 0 | 1.37 | 1.91 | 0.0 |
| 4/30/2015 5:22:33 | 47.24 | 46.54 | 141 | 1.15 | 1.36 | 7.7 |
| 4/30/2015 5:22:37 | 47.57 | 46.87 | 119 | 1.05 | 1.15 | 6.5 |
| 4/30/2015 5:22:39 | 47.90 | 47.20 | 165 | 1.09 | 1.04 | 9.0 |
| 4/30/2015 5:22:42 | 48.23 | 47.53 | 129 | 1.09 | 1.01 | 7.1 |
| 4/30/2015 5:22:44 | 48.56 | 47.86 | 132 | 1.03 | 0.97 | 7.2 |
| 4/30/2015 5:22:49 | 48.88 | 48.18 | 78 | 1.07 | 1.02 | 4.3 |
| 4/30/2015 5:22:55 | 49.21 | 48.51 | 64 | 1.08 | 0.95 | 3.5 |
| 4/30/2015 5:23:02 | 49.54 | 48.84 | 54 | 1.05 | 1.19 | 2.9 |
| 4/30/2015 5:23:07 | 49.87 | 49.17 | 72 | 1.16 | 1.12 | 3.9 |
| 4/30/2015 5:23:08 | 49.91 | 49.21 | 72 | 1.13 | 1.25 | 3.9 |

## K45 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:18:37

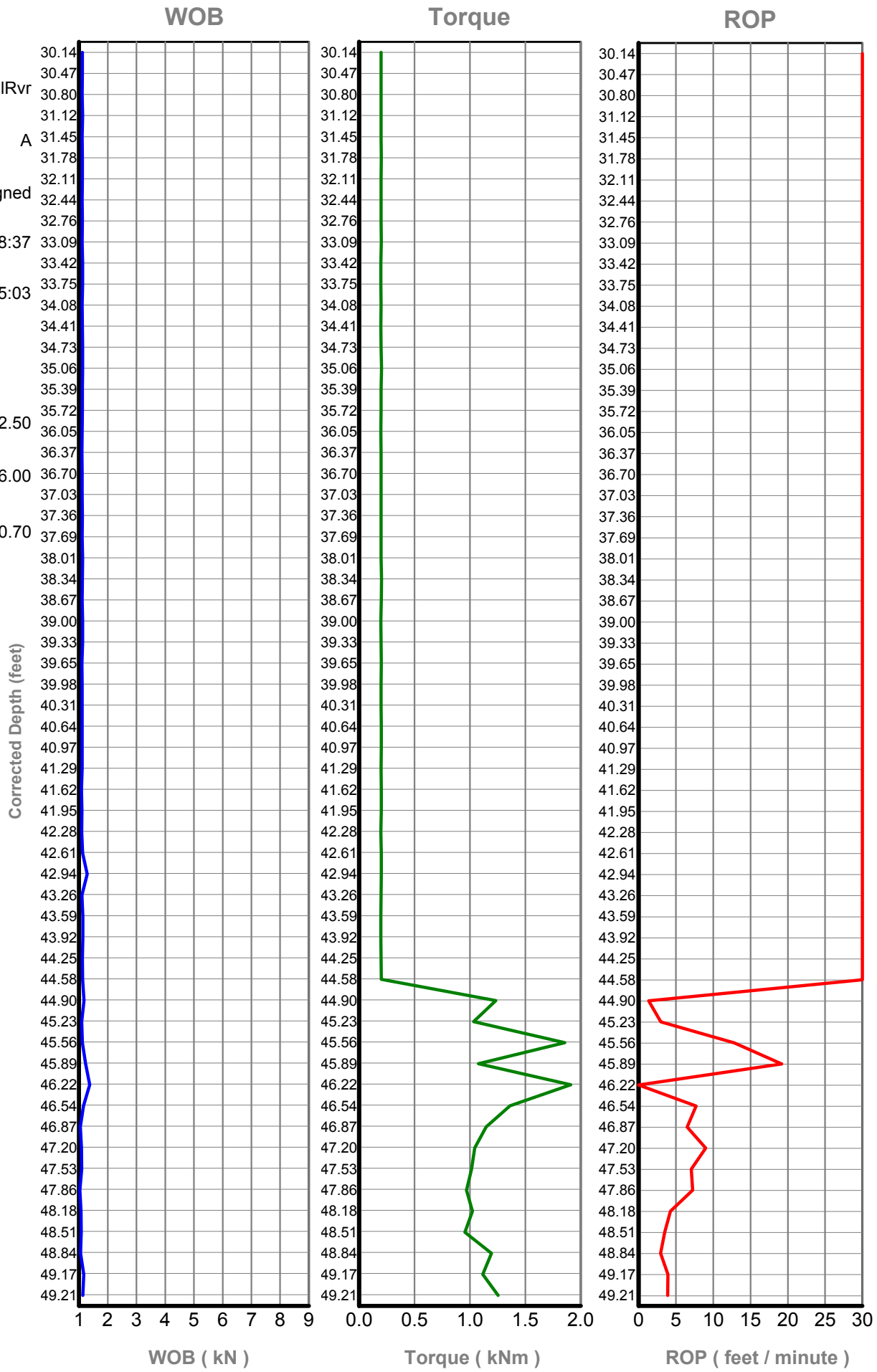
**End Date:**
4/30/2015 5:25:03

**Operator Note:**
'0.7 .7 a Auto Complete'

**Northing:**
362,192.50

**Easting:**
244,996.00

**Tide (feet):**
0.70



## Hole: K46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:21:33 | 30.84 | 30.14 | 1,052 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 5:21:33 | 31.17 | 30.47 | 1,052 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 5:21:33 | 31.50 | 30.80 | 1,060 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 5:21:34 | 31.82 | 31.12 | 1,070 | 0.36 | 0.39 | 58.5 |
| 4/30/2015 5:21:34 | 32.15 | 31.45 | 1,070 | 0.36 | 0.39 | 58.5 |
| 4/30/2015 5:21:34 | 32.48 | 31.78 | 1,042 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 5:21:35 | 32.81 | 32.11 | 1,042 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 5:21:35 | 33.14 | 32.44 | 1,080 | 0.35 | 0.39 | 59.1 |
| 4/30/2015 5:21:35 | 33.46 | 32.76 | 1,083 | 0.35 | 0.39 | 59.2 |
| 4/30/2015 5:21:36 | 33.79 | 33.09 | 1,083 | 0.35 | 0.39 | 59.2 |
| 4/30/2015 5:21:36 | 34.12 | 33.42 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:21:36 | 34.45 | 33.75 | 1,056 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:21:37 | 34.78 | 34.08 | 1,056 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:21:37 | 35.11 | 34.41 | 1,056 | 0.35 | 0.39 | 57.7 |
| 4/30/2015 5:21:37 | 35.43 | 34.73 | 1,067 | 0.36 | 0.39 | 58.4 |
| 4/30/2015 5:21:38 | 35.76 | 35.06 | 1,067 | 0.36 | 0.39 | 58.4 |
| 4/30/2015 5:21:38 | 36.09 | 35.39 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 5:21:38 | 36.42 | 35.72 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 5:21:38 | 36.75 | 36.05 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/30/2015 5:21:39 | 37.07 | 36.37 | 1,055 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:21:39 | 37.40 | 36.70 | 1,055 | 0.36 | 0.39 | 57.7 |
| 4/30/2015 5:21:39 | 37.73 | 37.03 | 1,071 | 0.35 | 0.39 | 58.6 |
| 4/30/2015 5:21:40 | 38.06 | 37.36 | 1,069 | 0.36 | 0.39 | 58.4 |
| 4/30/2015 5:21:40 | 38.39 | 37.69 | 1,069 | 0.36 | 0.39 | 58.4 |
| 4/30/2015 5:21:41 | 38.71 | 38.01 | 1,069 | 0.36 | 0.39 | 58.4 |
| 4/30/2015 5:21:41 | 39.04 | 38.34 | 1,078 | 0.36 | 0.38 | 59.0 |
| 4/30/2015 5:21:42 | 39.37 | 38.67 | 1,078 | 0.36 | 0.38 | 59.0 |
| 4/30/2015 5:21:42 | 39.70 | 39.00 | 1,078 | 0.36 | 0.39 | 58.9 |
| 4/30/2015 5:21:42 | 40.03 | 39.33 | 1,078 | 0.36 | 0.39 | 58.9 |
| 4/30/2015 5:21:42 | 40.35 | 39.65 | 1,081 | 0.36 | 0.39 | 59.1 |
| 4/30/2015 5:21:43 | 40.68 | 39.98 | 1,061 | 0.41 | 0.39 | 58.0 |
| 4/30/2015 5:21:43 | 41.01 | 40.31 | 1,061 | 0.41 | 0.39 | 58.0 |
| 4/30/2015 5:21:43 | 41.34 | 40.64 | 1,089 | 0.36 | 0.39 | 59.5 |
| 4/30/2015 5:21:44 | 41.67 | 40.97 | 1,060 | 0.36 | 0.39 | 58.0 |
| 4/30/2015 5:21:44 | 41.99 | 41.29 | 1,060 | 0.36 | 0.39 | 58.0 |
| 4/30/2015 5:21:44 | 42.32 | 41.62 | 1,060 | 0.36 | 0.39 | 58.0 |
| 4/30/2015 5:21:45 | 42.65 | 41.95 | 1,073 | 0.36 | 0.39 | 58.7 |
| 4/30/2015 5:21:45 | 42.98 | 42.28 | 1,073 | 0.36 | 0.39 | 58.7 |
| 4/30/2015 5:21:45 | 43.31 | 42.61 | 1,073 | 0.36 | 0.39 | 58.7 |
| 4/30/2015 5:21:46 | 43.64 | 42.94 | 1,073 | 0.36 | 0.39 | 58.7 |
| 4/30/2015 5:21:46 | 43.96 | 43.26 | 1,076 | 0.35 | 0.39 | 58.9 |
| 4/30/2015 5:21:46 | 44.29 | 43.59 | 1,080 | 0.36 | 0.38 | 59.0 |
| 4/30/2015 5:21:47 | 44.62 | 43.92 | 1,080 | 0.36 | 0.38 | 59.0 |
| 4/30/2015 5:21:47 | 44.95 | 44.25 | 1,057 | 0.41 | 0.39 | 57.8 |
| 4/30/2015 5:21:47 | 45.28 | 44.58 | 1,057 | 0.36 | 0.38 | 57.8 |
| 4/30/2015 5:21:48 | 45.60 | 44.90 | 1,057 | 0.36 | 0.38 | 57.8 |
| 4/30/2015 5:21:51 | 45.93 | 45.23 | 249 | 5.23 | 0.49 | 13.6 |
| 4/30/2015 5:21:54 | 46.26 | 45.56 | 64 | 4.32 | 0.44 | 3.5 |
| 4/30/2015 5:21:55 | 46.59 | 45.89 | 171 | 4.39 | 0.46 | 9.3 |
| 4/30/2015 5:22:00 | 46.92 | 46.22 | 63 | 3.52 | 0.48 | 3.5 |
| 4/30/2015 5:22:07 | 47.24 | 46.54 | 45 | 3.47 | 0.48 | 2.5 |
| 4/30/2015 5:22:15 | 47.57 | 46.87 | 38 | 2.74 | 0.48 | 2.1 |
| 4/30/2015 5:22:19 | 47.90 | 47.20 | 81 | 3.50 | 0.47 | 4.4 |
| 4/30/2015 5:22:25 | 48.23 | 47.53 | 60 | 3.80 | 0.47 | 3.3 |
| 4/30/2015 5:22:31 | 48.56 | 47.86 | 43 | 3.53 | 0.48 | 2.4 |
| 4/30/2015 5:22:40 | 48.88 | 48.18 | 40 | 3.15 | 0.48 | 2.2 |
| 4/30/2015 5:22:40 | 48.94 | 48.24 | 43 | 3.37 | 0.47 | 2.4 |

## K46 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:19:52

**End Date:**
4/30/2015 5:24:04

**Operator Note:**
'0.7 0.7b Auto Complete'

**Northing:**
362,239.94

**Easting:**
245,055.10

**Tide (feet):**
0.70



## Hole: K47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:19:50 | 30.84 | 30.14 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:19:50 | 31.17 | 30.47 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:19:50 | 31.50 | 30.80 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:19:51 | 31.82 | 31.12 | 1,066 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:51 | 32.15 | 31.45 | 1,066 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:51 | 32.48 | 31.78 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 5:19:52 | 32.81 | 32.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 5:19:52 | 33.14 | 32.44 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 5:19:52 | 33.46 | 32.76 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:19:53 | 33.79 | 33.09 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:19:53 | 34.12 | 33.42 | 1,071 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 5:19:53 | 34.45 | 33.75 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 5:19:54 | 34.78 | 34.08 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 5:19:54 | 35.11 | 34.41 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 5:19:54 | 35.43 | 34.73 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 5:19:55 | 35.76 | 35.06 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 5:19:55 | 36.09 | 35.39 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 5:19:55 | 36.42 | 35.72 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:56 | 36.75 | 36.05 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:56 | 37.07 | 36.37 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 5:19:56 | 37.40 | 36.70 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:57 | 37.73 | 37.03 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:57 | 38.06 | 37.36 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:19:57 | 38.39 | 37.69 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:58 | 38.71 | 38.01 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 5:19:58 | 39.04 | 38.34 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 5:19:58 | 39.37 | 38.67 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:19:59 | 39.70 | 39.00 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:19:59 | 40.03 | 39.33 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:19:59 | 40.35 | 39.65 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:19:59 | 40.68 | 39.98 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:00 | 41.01 | 40.31 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:01 | 41.34 | 40.64 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:01 | 41.67 | 40.97 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:01 | 41.99 | 41.29 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:02 | 42.32 | 41.62 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:02 | 42.65 | 41.95 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:02 | 42.98 | 42.28 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:03 | 43.31 | 42.61 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 5:20:03 | 43.64 | 42.94 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 5:20:03 | 43.96 | 43.26 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:04 | 44.29 | 43.59 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:04 | 44.62 | 43.92 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:04 | 44.95 | 44.25 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 5:20:05 | 45.28 | 44.58 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 5:20:05 | 45.60 | 44.90 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:05 | 45.93 | 45.23 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 5:20:06 | 46.26 | 45.56 | 1,063 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 5:20:06 | 46.59 | 45.89 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:06 | 46.92 | 46.22 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 5:20:17 | 47.24 | 46.54 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 5:20:25 | 47.57 | 46.87 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 5:20:33 | 47.90 | 47.20 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 5:20:40 | 48.23 | 47.53 | 50 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 5:20:46 | 48.56 | 47.86 | 57 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 5:20:47 | 48.60 | 47.90 | 63 | 1.14 | 0.29 | 3.5 |

## K47 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:18:57

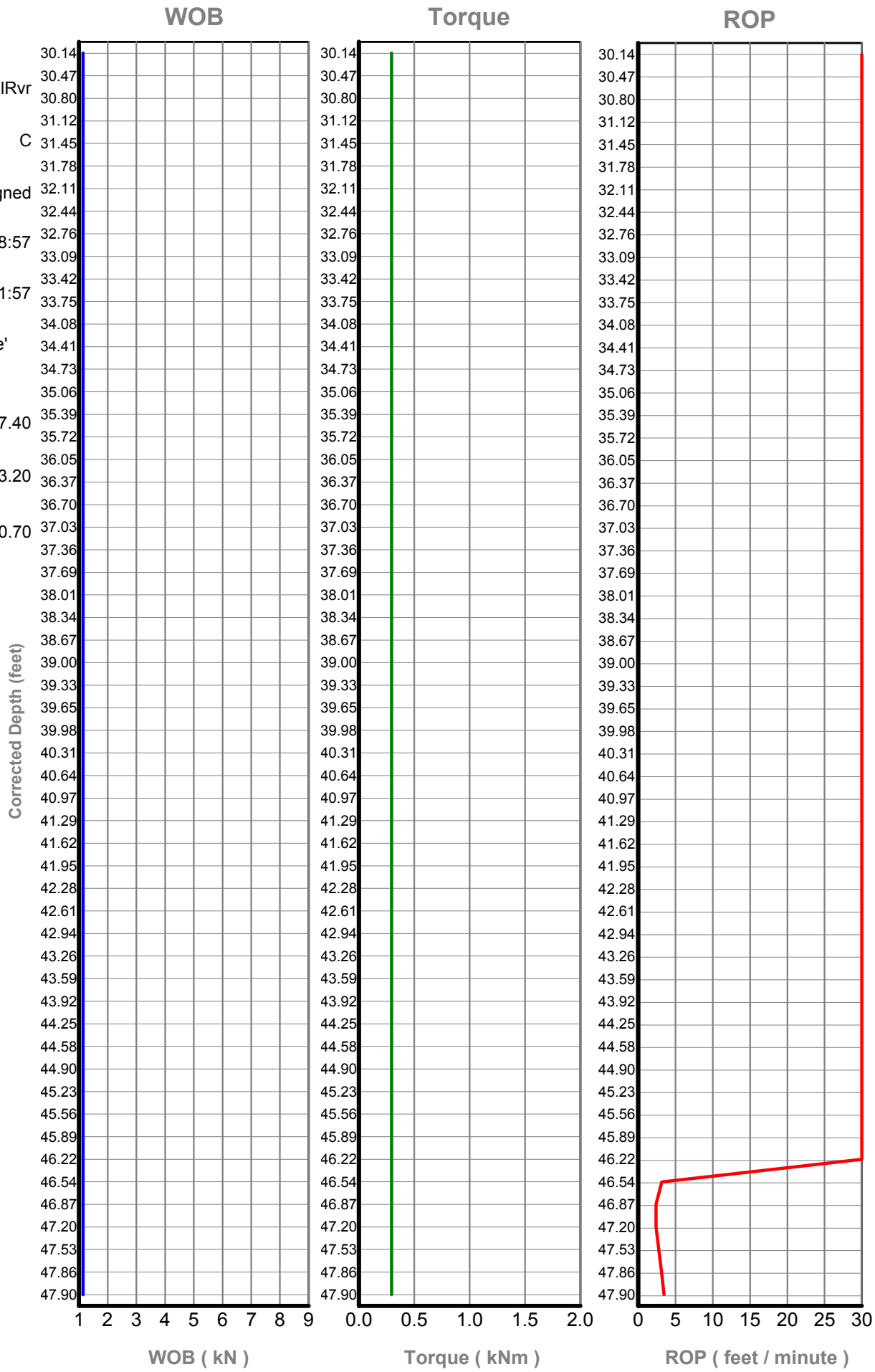
**End Date:**
4/30/2015 5:21:57

**Operator Note:**
'0.7 0.7 c Auto Complete'

**Northing:**
362,287.40

**Easting:**
245,113.20

**Tide (feet):**
0.70



## Hole: K48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:29:36 | 33.14 | 30.14 | 1,312 | 1.82 | 0.23 | 71.8 |
| 4/30/2015 2:29:37 | 33.46 | 30.46 | 1,312 | 1.82 | 0.23 | 71.8 |
| 4/30/2015 2:29:37 | 33.79 | 30.79 | 1,307 | 1.83 | 0.23 | 71.5 |
| 4/30/2015 2:29:37 | 34.12 | 31.12 | 1,307 | 1.83 | 0.23 | 71.5 |
| 4/30/2015 2:29:37 | 34.45 | 31.45 | 1,307 | 1.81 | 0.23 | 71.5 |
| 4/30/2015 2:29:38 | 34.78 | 31.78 | 1,307 | 1.81 | 0.23 | 71.5 |
| 4/30/2015 2:29:38 | 35.11 | 32.11 | 1,307 | 1.84 | 0.23 | 71.5 |
| 4/30/2015 2:29:38 | 35.43 | 32.43 | 1,307 | 1.84 | 0.23 | 71.5 |
| 4/30/2015 2:29:38 | 35.76 | 32.76 | 1,318 | 1.80 | 0.23 | 72.1 |
| 4/30/2015 2:29:39 | 36.09 | 33.09 | 1,318 | 1.80 | 0.23 | 72.1 |
| 4/30/2015 2:29:39 | 36.42 | 33.42 | 1,307 | 1.82 | 0.23 | 71.5 |
| 4/30/2015 2:29:39 | 36.75 | 33.75 | 1,307 | 1.82 | 0.23 | 71.5 |
| 4/30/2015 2:29:39 | 37.07 | 34.07 | 1,307 | 1.83 | 0.23 | 71.5 |
| 4/30/2015 2:29:40 | 37.40 | 34.40 | 1,307 | 1.83 | 0.23 | 71.5 |
| 4/30/2015 2:29:40 | 37.73 | 34.73 | 1,310 | 1.83 | 0.23 | 71.6 |
| 4/30/2015 2:29:40 | 38.06 | 35.06 | 1,310 | 1.83 | 0.23 | 71.6 |
| 4/30/2015 2:29:40 | 38.39 | 35.39 | 1,315 | 1.85 | 0.23 | 71.9 |
| 4/30/2015 2:29:41 | 38.71 | 35.71 | 1,309 | 1.82 | 0.23 | 71.6 |
| 4/30/2015 2:29:42 | 39.04 | 36.04 | 1,309 | 1.82 | 0.23 | 71.6 |
| 4/30/2015 2:29:42 | 39.37 | 36.37 | 1,309 | 1.85 | 0.23 | 71.6 |
| 4/30/2015 2:29:42 | 39.70 | 36.70 | 1,309 | 1.85 | 0.23 | 71.6 |
| 4/30/2015 2:29:42 | 40.03 | 37.03 | 1,312 | 1.81 | 0.23 | 71.8 |
| 4/30/2015 2:29:43 | 40.35 | 37.35 | 1,312 | 1.81 | 0.23 | 71.8 |
| 4/30/2015 2:29:43 | 40.68 | 37.68 | 1,312 | 1.83 | 0.23 | 71.8 |
| 4/30/2015 2:29:43 | 41.01 | 38.01 | 1,312 | 1.83 | 0.23 | 71.8 |
| 4/30/2015 2:29:43 | 41.34 | 38.34 | 1,304 | 1.85 | 0.23 | 71.3 |
| 4/30/2015 2:29:44 | 41.67 | 38.67 | 1,304 | 1.85 | 0.23 | 71.3 |
| 4/30/2015 2:29:44 | 41.99 | 38.99 | 1,304 | 1.83 | 0.23 | 71.3 |
| 4/30/2015 2:29:44 | 42.32 | 39.32 | 1,304 | 1.83 | 0.23 | 71.3 |
| 4/30/2015 2:29:44 | 42.65 | 39.65 | 1,304 | 1.83 | 0.23 | 71.3 |
| 4/30/2015 2:29:45 | 42.98 | 39.98 | 1,304 | 1.83 | 0.23 | 71.3 |
| 4/30/2015 2:29:45 | 43.31 | 40.31 | 1,296 | 1.83 | 0.23 | 70.9 |
| 4/30/2015 2:29:45 | 43.64 | 40.64 | 1,296 | 1.83 | 0.23 | 70.9 |
| 4/30/2015 2:29:45 | 43.96 | 40.96 | 1,302 | 1.80 | 0.23 | 71.2 |
| 4/30/2015 2:29:46 | 44.29 | 41.29 | 1,302 | 1.80 | 0.23 | 71.2 |
| 4/30/2015 2:29:46 | 44.62 | 41.62 | 1,305 | 1.85 | 0.23 | 71.3 |
| 4/30/2015 2:29:46 | 44.95 | 41.95 | 1,297 | 1.85 | 0.23 | 70.9 |
| 4/30/2015 2:29:47 | 45.28 | 42.28 | 1,297 | 1.85 | 0.23 | 70.9 |
| 4/30/2015 2:29:47 | 45.60 | 42.60 | 1,307 | 1.82 | 0.23 | 71.5 |
| 4/30/2015 2:29:47 | 45.93 | 42.93 | 1,307 | 1.82 | 0.23 | 71.5 |
| 4/30/2015 2:29:47 | 46.26 | 43.26 | 1,309 | 1.85 | 0.23 | 71.6 |
| 4/30/2015 2:29:48 | 46.59 | 43.59 | 1,309 | 1.85 | 0.23 | 71.6 |
| 4/30/2015 2:29:48 | 46.92 | 43.92 | 1,301 | 1.83 | 0.23 | 71.1 |
| 4/30/2015 2:29:48 | 47.24 | 44.24 | 1,301 | 1.83 | 0.23 | 71.1 |
| 4/30/2015 2:29:48 | 47.57 | 44.57 | 1,277 | 1.11 | 0.18 | 69.9 |
| 4/30/2015 2:30:04 | 47.90 | 44.90 | 61 | 1.00 | 0.92 | 3.4 |
| 4/30/2015 2:30:05 | 48.23 | 45.23 | 170 | 1.00 | 0.98 | 9.3 |
| 4/30/2015 2:30:13 | 48.56 | 45.56 | 29 | 1.07 | 1.29 | 1.6 |
| 4/30/2015 2:30:15 | 48.88 | 45.88 | 167 | 1.11 | 1.15 | 9.1 |
| 4/30/2015 2:30:18 | 49.21 | 46.21 | 121 | 1.08 | 1.05 | 6.6 |
| 4/30/2015 2:30:21 | 49.54 | 46.54 | 87 | 1.07 | 0.98 | 4.7 |
| 4/30/2015 2:30:26 | 49.87 | 46.87 | 81 | 1.11 | 1.08 | 4.4 |
| 4/30/2015 2:30:31 | 50.20 | 47.20 | 64 | 1.13 | 0.94 | 3.5 |
| 4/30/2015 2:30:40 | 50.53 | 47.53 | 38 | 1.06 | 0.86 | 2.1 |
| 4/30/2015 2:30:48 | 50.85 | 47.85 | 46 | 1.13 | 0.97 | 2.5 |
| 4/30/2015 2:30:55 | 51.11 | 48.11 | 43 | 0.61 | 1.04 | 2.4 |

## K48 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:27:39

**End Date:**
4/30/2015 2:32:21

**Operator Note:**
'3 3 b Auto Complete'

**Northing:**
362,322.60

**Easting:**
245,167.90

**Tide (feet):**
3.00



## Hole: K49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:28:24 | 33.14 | 30.14 | 1,151 | 0.30 | 0.37 | 62.9 |
| 4/30/2015 2:28:24 | 33.46 | 30.46 | 1,151 | 0.29 | 0.38 | 62.9 |
| 4/30/2015 2:28:24 | 33.79 | 30.79 | 1,151 | 0.29 | 0.38 | 62.9 |
| 4/30/2015 2:28:24 | 34.12 | 31.12 | 1,140 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:28:25 | 34.45 | 31.45 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 2:28:25 | 34.78 | 31.78 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 2:28:25 | 35.11 | 32.11 | 1,153 | 0.30 | 0.37 | 63.0 |
| 4/30/2015 2:28:26 | 35.43 | 32.43 | 1,153 | 0.30 | 0.37 | 63.0 |
| 4/30/2015 2:28:26 | 35.76 | 32.76 | 1,149 | 0.30 | 0.37 | 62.8 |
| 4/30/2015 2:28:26 | 36.09 | 33.09 | 1,137 | 0.30 | 0.37 | 62.2 |
| 4/30/2015 2:28:27 | 36.42 | 33.42 | 1,137 | 0.30 | 0.37 | 62.2 |
| 4/30/2015 2:28:27 | 36.75 | 33.75 | 1,137 | 0.30 | 0.38 | 62.2 |
| 4/30/2015 2:28:27 | 37.07 | 34.07 | 1,137 | 0.30 | 0.38 | 62.2 |
| 4/30/2015 2:28:28 | 37.40 | 34.40 | 1,169 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 2:28:28 | 37.73 | 34.73 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 2:28:29 | 38.06 | 35.06 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 2:28:29 | 38.39 | 35.39 | 1,140 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:28:29 | 38.71 | 35.71 | 1,140 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 2:28:29 | 39.04 | 36.04 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 2:28:30 | 39.37 | 36.37 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 2:28:30 | 39.70 | 36.70 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 2:28:30 | 40.03 | 37.03 | 1,164 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 2:28:31 | 40.35 | 37.35 | 1,164 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 2:28:31 | 40.68 | 37.68 | 1,164 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 2:28:31 | 41.01 | 38.01 | 1,164 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 2:28:31 | 41.34 | 38.34 | 1,156 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 2:28:32 | 41.67 | 38.67 | 1,187 | 0.31 | 0.38 | 64.9 |
| 4/30/2015 2:28:32 | 41.99 | 38.99 | 1,187 | 0.31 | 0.38 | 64.9 |
| 4/30/2015 2:28:32 | 42.32 | 39.32 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:28:33 | 42.65 | 39.65 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:28:33 | 42.98 | 39.98 | 1,180 | 0.34 | 0.38 | 64.5 |
| 4/30/2015 2:28:33 | 43.31 | 40.31 | 1,180 | 0.34 | 0.38 | 64.5 |
| 4/30/2015 2:28:33 | 43.64 | 40.64 | 1,177 | 0.31 | 0.36 | 64.4 |
| 4/30/2015 2:28:34 | 43.96 | 40.96 | 1,164 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 2:28:34 | 44.29 | 41.29 | 1,164 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 2:28:34 | 44.62 | 41.62 | 1,164 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 2:28:35 | 44.95 | 41.95 | 1,164 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 2:28:35 | 45.28 | 42.28 | 1,165 | 0.30 | 0.37 | 63.7 |
| 4/30/2015 2:28:35 | 45.60 | 42.60 | 1,158 | 0.30 | 0.38 | 63.3 |
| 4/30/2015 2:28:36 | 45.93 | 42.93 | 1,158 | 0.30 | 0.38 | 63.3 |
| 4/30/2015 2:28:36 | 46.26 | 43.26 | 1,180 | 0.29 | 0.39 | 64.6 |
| 4/30/2015 2:28:37 | 46.59 | 43.59 | 1,180 | 0.29 | 0.39 | 64.6 |
| 4/30/2015 2:28:36 | 46.92 | 43.92 | 1,153 | 0.30 | 0.38 | 63.1 |
| 4/30/2015 2:28:37 | 47.24 | 44.24 | 1,153 | 0.30 | 0.38 | 63.1 |
| 4/30/2015 2:28:37 | 47.57 | 44.57 | 1,153 | 0.30 | 0.37 | 63.1 |
| 4/30/2015 2:28:37 | 47.90 | 44.90 | 1,177 | 0.31 | 0.38 | 64.4 |
| 4/30/2015 2:28:38 | 48.23 | 45.23 | 1,177 | 0.31 | 0.38 | 64.4 |
| 4/30/2015 2:28:38 | 48.56 | 45.56 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 2:28:38 | 48.88 | 45.88 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 2:28:39 | 49.21 | 46.21 | 1,173 | 0.29 | 0.40 | 64.1 |
| 4/30/2015 2:28:41 | 49.54 | 46.54 | 393 | 2.45 | 0.39 | 21.5 |
| 4/30/2015 2:28:42 | 49.87 | 46.87 | 273 | 2.25 | 0.37 | 14.9 |
| 4/30/2015 2:28:42 | 50.20 | 47.20 | 273 | 2.97 | 0.43 | 14.9 |
| 4/30/2015 2:28:43 | 50.53 | 47.53 | 281 | 4.66 | 0.45 | 15.4 |
| 4/30/2015 2:28:45 | 50.85 | 47.85 | 293 | 3.98 | 0.46 | 16.0 |
| 4/30/2015 2:28:47 | 51.18 | 48.18 | 151 | 4.32 | 0.45 | 8.3 |
| 4/30/2015 2:28:50 | 51.51 | 48.51 | 178 | 4.01 | 0.44 | 9.8 |
| 4/30/2015 2:28:52 | 51.84 | 48.84 | 171 | 3.91 | 0.46 | 9.3 |
| 4/30/2015 2:28:54 | 52.17 | 49.17 | 149 | 3.63 | 0.45 | 8.2 |
| 4/30/2015 2:28:56 | 52.49 | 49.49 | 191 | 3.26 | 0.44 | 10.4 |
| 4/30/2015 2:28:57 | 52.82 | 49.82 | 234 | 3.60 | 0.45 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 2:29:00 | 53.15 | 50.15 | 150 | 3.58 | 0.46 | 8.2 |
| 4/30/2015 | 2:29:03 | 53.48 | 50.48 | 96 | 3.42 | 0.45 | 5.2 |
| 4/30/2015 | 2:29:07 | 53.81 | 50.81 | 101 | 3.72 | 0.48 | 5.5 |
| 4/30/2015 | 2:29:12 | 54.13 | 51.13 | 81 | 3.64 | 0.46 | 4.4 |
| 4/30/2015 | 2:29:17 | 54.46 | 51.46 | 66 | 3.48 | 0.47 | 3.6 |
| 4/30/2015 | 2:29:21 | 54.79 | 51.79 | 84 | 3.75 | 0.46 | 4.6 |
| 4/30/2015 | 2:29:24 | 55.12 | 52.12 | 119 | 3.26 | 0.47 | 6.5 |
| 4/30/2015 | 2:29:31 | 55.45 | 52.45 | 48 | 3.16 | 0.47 | 2.6 |
| 4/30/2015 | 2:29:37 | 55.77 | 52.77 | 52 | 3.16 | 0.47 | 2.9 |
| 4/30/2015 | 2:29:43 | 56.10 | 53.10 | 76 | 3.71 | 0.47 | 4.2 |
| 4/30/2015 | 2:29:48 | 56.43 | 53.43 | 55 | 3.26 | 0.48 | 3.0 |
| 4/30/2015 | 2:29:56 | 56.76 | 53.76 | 49 | 3.14 | 0.46 | 2.7 |
| 4/30/2015 | 2:30:02 | 57.09 | 54.09 | 64 | 3.60 | 0.47 | 3.5 |
| 4/30/2015 | 2:30:07 | 57.39 | 54.39 | 64 | 3.34 | 0.46 | 3.5 |

## K49 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:26:50

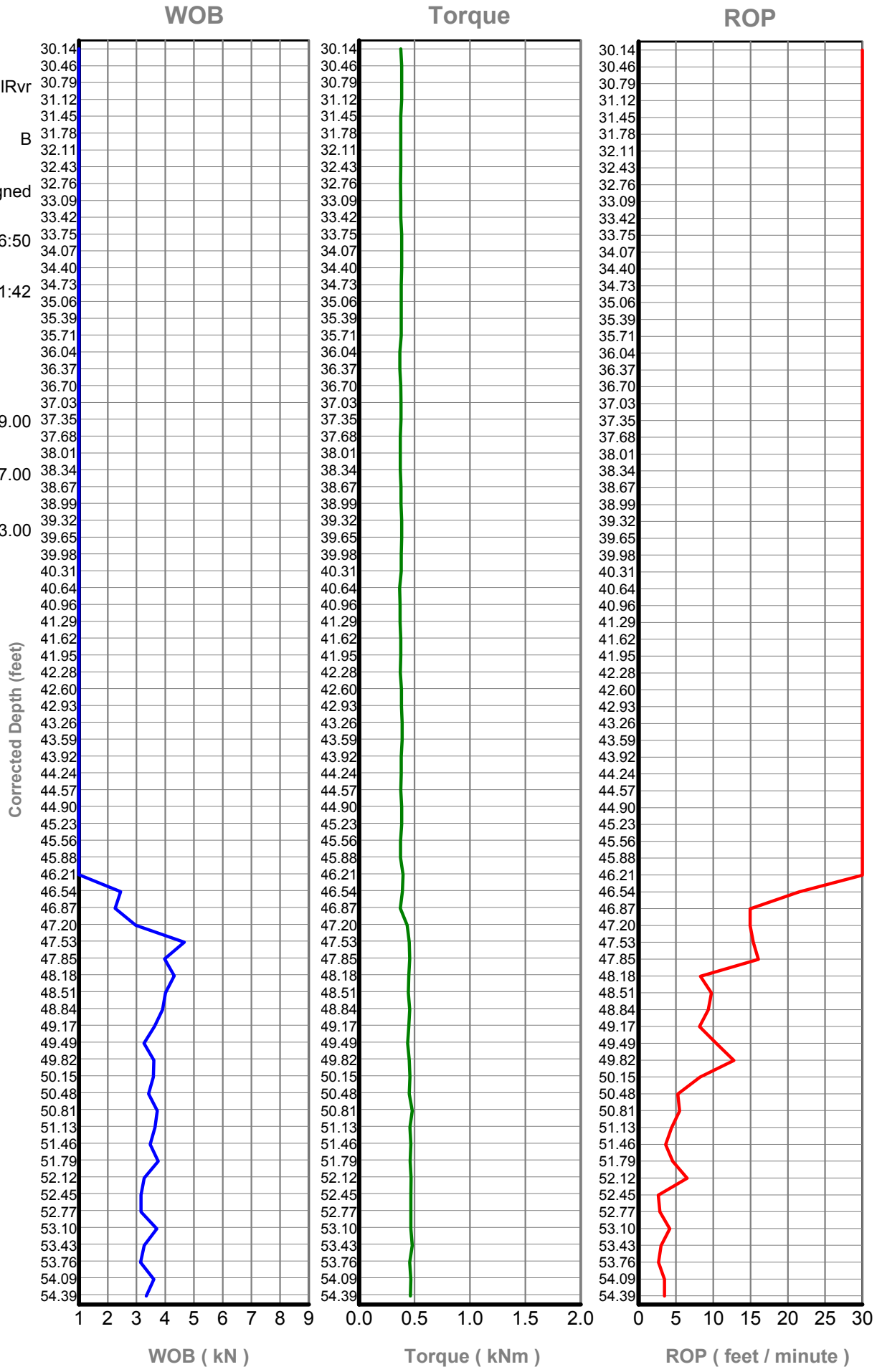
**End Date:**
4/30/2015 2:31:42

**Operator Note:**
'3 3.0b Auto Complete'

**Northing:**
362,369.00

**Easting:**
245,227.00

**Tide (feet):**
3.00



## Hole: K5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:59:00 | 34.12 | 30.22 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:00 | 34.45 | 30.55 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:01 | 34.78 | 30.88 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:01 | 35.11 | 31.21 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:59:01 | 35.43 | 31.53 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:59:01 | 35.76 | 31.86 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:02 | 36.09 | 32.19 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:03 | 36.42 | 32.52 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/30/2015 13:59:02 | 36.75 | 32.85 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 13:59:32 | 37.07 | 33.17 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 13:59:35 | 37.40 | 33.50 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 13:59:36 | 37.73 | 33.83 | 133 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 13:59:41 | 38.06 | 34.16 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 13:59:52 | 38.39 | 34.49 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 14:00:06 | 38.71 | 34.81 | 23 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 14:00:19 | 39.04 | 35.14 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 14:01:37 | 39.37 | 35.47 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 14:01:47 | 39.70 | 35.80 | 47 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 14:01:55 | 40.03 | 36.13 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 14:02:02 | 40.21 | 36.31 | 32 | 1.14 | 0.29 | 1.7 |

## K5 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:57:52

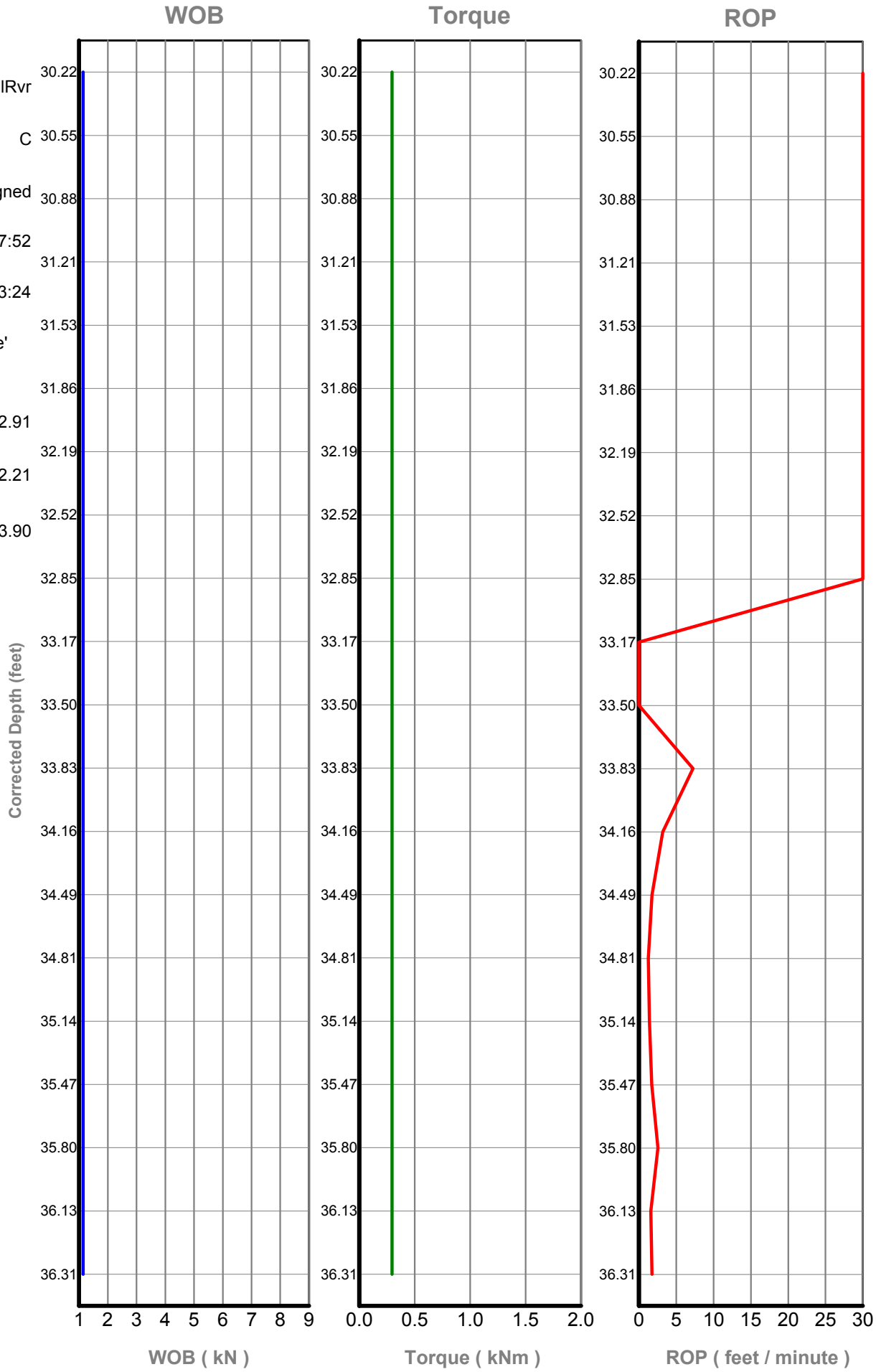
**End Date:**
4/30/2015 14:03:24

**Operator Note:**
'3.9 4.3 c Auto Complete'

**Northing:**
361,832.91

**Easting:**
244,322.21

**Tide (feet):**
3.90



## Hole: K50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:26:53 | 33.14 | 30.14 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 2:26:53 | 33.46 | 30.46 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 2:26:53 | 33.79 | 30.79 | 1,148 | 1.14 | 0.29 | 62.8 |
| 4/30/2015 2:26:54 | 34.12 | 31.12 | 1,140 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 2:26:54 | 34.45 | 31.45 | 1,140 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 2:26:54 | 34.78 | 31.78 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:26:55 | 35.11 | 32.11 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:26:55 | 35.43 | 32.43 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:26:55 | 35.76 | 32.76 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:26:56 | 36.09 | 33.09 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:26:56 | 36.42 | 33.42 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:26:56 | 36.75 | 33.75 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:26:57 | 37.07 | 34.07 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 2:26:57 | 37.40 | 34.40 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:26:58 | 37.73 | 34.73 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 2:26:57 | 38.06 | 35.06 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 2:26:58 | 38.39 | 35.39 | 1,135 | 1.14 | 0.29 | 62.1 |
| 4/30/2015 2:26:59 | 38.71 | 35.71 | 1,135 | 1.14 | 0.29 | 62.1 |
| 4/30/2015 2:26:59 | 39.04 | 36.04 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:26:59 | 39.37 | 36.37 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 2:26:59 | 39.70 | 36.70 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:00 | 40.03 | 37.03 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:27:00 | 40.35 | 37.35 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:27:00 | 40.68 | 37.68 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:27:01 | 41.01 | 38.01 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:27:01 | 41.34 | 38.34 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:27:01 | 41.67 | 38.67 | 1,136 | 1.14 | 0.29 | 62.1 |
| 4/30/2015 2:27:02 | 41.99 | 38.99 | 1,136 | 1.14 | 0.29 | 62.1 |
| 4/30/2015 2:27:02 | 42.32 | 39.32 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 2:27:02 | 42.65 | 39.65 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:27:03 | 42.98 | 39.98 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 2:27:03 | 43.31 | 40.31 | 1,133 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:27:03 | 43.64 | 40.64 | 1,133 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 2:27:03 | 43.96 | 40.96 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:04 | 44.29 | 41.29 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:04 | 44.62 | 41.62 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:04 | 44.95 | 41.95 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:05 | 45.28 | 42.28 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:27:05 | 45.60 | 42.60 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:27:05 | 45.93 | 42.93 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:27:06 | 46.26 | 43.26 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:27:06 | 46.59 | 43.59 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 2:27:06 | 46.92 | 43.92 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:07 | 47.24 | 44.24 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 2:27:07 | 47.57 | 44.57 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:27:07 | 47.90 | 44.90 | 1,109 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:27:17 | 48.23 | 45.23 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 2:27:28 | 48.56 | 45.56 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 2:27:34 | 48.88 | 45.88 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 2:27:41 | 49.21 | 46.21 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 2:27:48 | 49.54 | 46.54 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 2:27:51 | 49.70 | 46.70 | 47 | 1.14 | 0.29 | 2.6 |

## K50 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:25:57

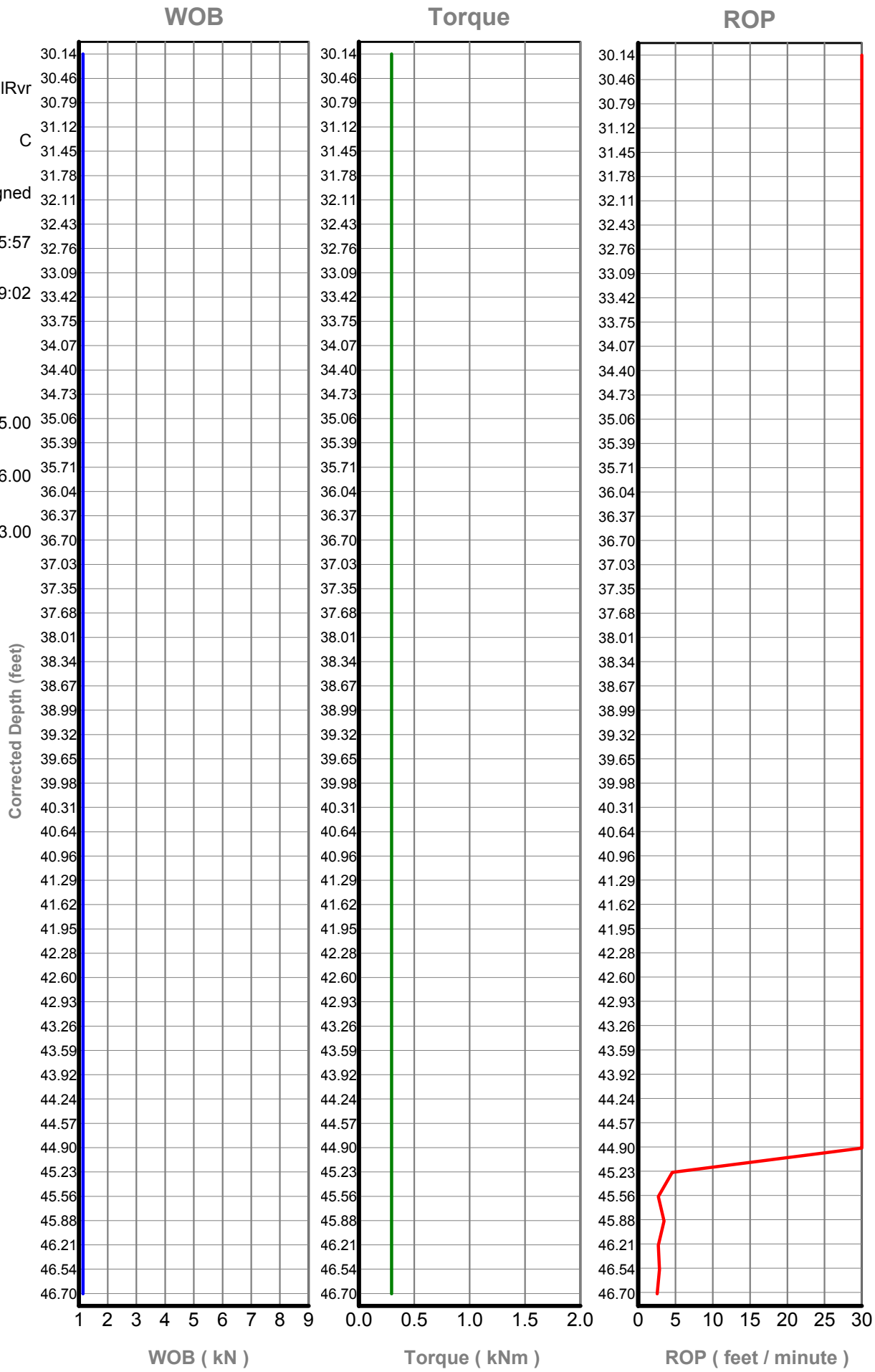
**End Date:**
4/30/2015 2:29:02

**Operator Note:**
'3 3.0 c Auto Complete'

**Northing:**
362,415.00

**Easting:**
245,286.00

**Tide (feet):**
3.00



## Hole: K51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:26:16 | 34.12 | 30.22 | 743 | 1.07 | 0.19 | 40.6 |
| 4/30/2015 1:26:16 | 34.45 | 30.55 | 742 | 1.07 | 0.19 | 40.6 |
| 4/30/2015 1:26:17 | 34.78 | 30.88 | 742 | 1.09 | 0.19 | 40.6 |
| 4/30/2015 1:26:17 | 35.11 | 31.21 | 761 | 1.07 | 0.19 | 41.6 |
| 4/30/2015 1:26:18 | 35.43 | 31.53 | 753 | 1.07 | 0.19 | 41.2 |
| 4/30/2015 1:26:18 | 35.76 | 31.86 | 762 | 1.07 | 0.19 | 41.7 |
| 4/30/2015 1:26:19 | 36.09 | 32.19 | 762 | 1.07 | 0.19 | 41.7 |
| 4/30/2015 1:26:19 | 36.42 | 32.52 | 758 | 1.07 | 0.19 | 41.5 |
| 4/30/2015 1:26:20 | 36.75 | 32.85 | 747 | 1.06 | 0.19 | 40.9 |
| 4/30/2015 1:26:20 | 37.07 | 33.17 | 752 | 1.06 | 0.19 | 41.1 |
| 4/30/2015 1:26:21 | 37.40 | 33.50 | 752 | 1.06 | 0.19 | 41.1 |
| 4/30/2015 1:26:21 | 37.73 | 33.83 | 747 | 1.05 | 0.19 | 40.9 |
| 4/30/2015 1:26:22 | 38.06 | 34.16 | 749 | 1.07 | 0.19 | 40.9 |
| 4/30/2015 1:26:22 | 38.39 | 34.49 | 752 | 1.08 | 0.19 | 41.1 |
| 4/30/2015 1:26:23 | 38.71 | 34.81 | 756 | 1.07 | 0.19 | 41.3 |
| 4/30/2015 1:26:23 | 39.04 | 35.14 | 756 | 1.06 | 0.19 | 41.3 |
| 4/30/2015 1:26:24 | 39.37 | 35.47 | 756 | 1.06 | 0.19 | 41.3 |
| 4/30/2015 1:26:24 | 39.70 | 35.80 | 757 | 1.08 | 0.19 | 41.4 |
| 4/30/2015 1:26:25 | 40.03 | 36.13 | 754 | 1.06 | 0.19 | 41.3 |
| 4/30/2015 1:26:25 | 40.35 | 36.45 | 754 | 1.06 | 0.19 | 41.3 |
| 4/30/2015 1:26:26 | 40.68 | 36.78 | 750 | 1.05 | 0.19 | 41.0 |
| 4/30/2015 1:26:26 | 41.01 | 37.11 | 750 | 1.05 | 0.19 | 41.0 |
| 4/30/2015 1:26:26 | 41.34 | 37.44 | 757 | 1.07 | 0.19 | 41.4 |
| 4/30/2015 1:26:27 | 41.67 | 37.77 | 747 | 1.07 | 0.19 | 40.9 |
| 4/30/2015 1:26:27 | 41.99 | 38.09 | 752 | 1.06 | 0.19 | 41.1 |
| 4/30/2015 1:26:28 | 42.32 | 38.42 | 749 | 1.07 | 0.19 | 41.0 |
| 4/30/2015 1:26:28 | 42.65 | 38.75 | 749 | 1.06 | 0.19 | 41.0 |
| 4/30/2015 1:26:29 | 42.98 | 39.08 | 746 | 1.08 | 0.19 | 40.8 |
| 4/30/2015 1:26:29 | 43.31 | 39.41 | 754 | 1.07 | 0.19 | 41.2 |
| 4/30/2015 1:26:30 | 43.64 | 39.74 | 744 | 1.06 | 0.19 | 40.7 |
| 4/30/2015 1:26:30 | 43.96 | 40.06 | 752 | 1.07 | 0.19 | 41.1 |
| 4/30/2015 1:26:31 | 44.29 | 40.39 | 752 | 1.07 | 0.19 | 41.1 |
| 4/30/2015 1:26:32 | 44.62 | 40.72 | 749 | 1.05 | 0.19 | 40.9 |
| 4/30/2015 1:26:32 | 44.95 | 41.05 | 749 | 1.05 | 0.19 | 40.9 |
| 4/30/2015 1:26:32 | 45.28 | 41.38 | 749 | 1.07 | 0.19 | 40.9 |
| 4/30/2015 1:26:33 | 45.60 | 41.70 | 751 | 1.06 | 0.19 | 41.1 |
| 4/30/2015 1:26:33 | 45.93 | 42.03 | 749 | 1.07 | 0.19 | 40.9 |
| 4/30/2015 1:26:34 | 46.26 | 42.36 | 746 | 1.06 | 0.19 | 40.8 |
| 4/30/2015 1:26:34 | 46.59 | 42.69 | 741 | 1.06 | 0.19 | 40.5 |
| 4/30/2015 1:26:35 | 46.92 | 43.02 | 746 | 1.06 | 0.19 | 40.8 |
| 4/30/2015 1:26:35 | 47.24 | 43.34 | 740 | 1.07 | 0.19 | 40.5 |
| 4/30/2015 1:26:36 | 47.57 | 43.67 | 726 | 1.07 | 0.19 | 39.7 |
| 4/30/2015 1:26:36 | 47.90 | 44.00 | 726 | 1.07 | 0.19 | 39.7 |
| 4/30/2015 1:26:37 | 48.23 | 44.33 | 724 | 1.21 | 0.19 | 39.6 |
| 4/30/2015 1:26:37 | 48.56 | 44.66 | 724 | 1.07 | 0.19 | 39.6 |
| 4/30/2015 1:26:38 | 48.88 | 44.98 | 724 | 1.07 | 0.19 | 39.6 |
| 4/30/2015 1:26:38 | 49.21 | 45.31 | 740 | 1.06 | 0.19 | 40.5 |
| 4/30/2015 1:26:49 | 49.54 | 45.64 | 0 | 1.86 | 0.72 | 0.0 |
| 4/30/2015 1:26:51 | 49.87 | 45.97 | 91 | 1.14 | 1.22 | 5.0 |
| 4/30/2015 1:26:56 | 50.20 | 46.30 | 69 | 1.13 | 1.53 | 3.8 |
| 4/30/2015 1:27:01 | 50.53 | 46.63 | 69 | 1.15 | 1.36 | 3.8 |
| 4/30/2015 1:27:08 | 50.85 | 46.95 | 75 | 1.11 | 1.24 | 4.1 |
| 4/30/2015 1:27:10 | 51.18 | 47.28 | 154 | 1.15 | 1.07 | 8.4 |
| 4/30/2015 1:27:19 | 51.51 | 47.61 | 43 | 1.07 | 1.08 | 2.4 |
| 4/30/2015 1:27:27 | 51.84 | 47.94 | 46 | 1.07 | 0.96 | 2.5 |
| 4/30/2015 1:27:35 | 52.17 | 48.27 | 46 | 1.08 | 1.05 | 2.5 |
| 4/30/2015 1:27:39 | 52.39 | 48.49 | 52 | 0.58 | 1.04 | 2.8 |

## K51 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:24:06

**End Date:**
4/30/2015 1:30:02

**Operator Note:**
'3.9 4.1 b Auto Complete'

**Northing:**
362,454.60

**Easting:**
245,334.00

**Tide (feet):**
3.90



## Hole: K52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:26:57 | 34.12 | 30.22 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 1:26:57 | 34.45 | 30.55 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 1:26:57 | 34.78 | 30.88 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 1:26:58 | 35.11 | 31.21 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:26:58 | 35.43 | 31.53 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:26:58 | 35.76 | 31.86 | 1,195 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 1:26:59 | 36.09 | 32.19 | 1,195 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 1:26:59 | 36.42 | 32.52 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 1:26:59 | 36.75 | 32.85 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:00 | 37.07 | 33.17 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:00 | 37.40 | 33.50 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:00 | 37.73 | 33.83 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:00 | 38.06 | 34.16 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 1:27:01 | 38.39 | 34.49 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:02 | 38.71 | 34.81 | 1,168 | 0.29 | 0.37 | 63.9 |
| 4/30/2015 1:27:02 | 39.04 | 35.14 | 1,164 | 0.29 | 0.36 | 63.7 |
| 4/30/2015 1:27:02 | 39.37 | 35.47 | 1,164 | 0.29 | 0.36 | 63.7 |
| 4/30/2015 1:27:02 | 39.70 | 35.80 | 1,170 | 0.29 | 0.38 | 64.0 |
| 4/30/2015 1:27:03 | 40.03 | 36.13 | 1,170 | 0.29 | 0.38 | 64.0 |
| 4/30/2015 1:27:03 | 40.35 | 36.45 | 1,183 | 0.29 | 0.38 | 64.7 |
| 4/30/2015 1:27:03 | 40.68 | 36.78 | 1,177 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 1:27:04 | 41.01 | 37.11 | 1,177 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 1:27:04 | 41.34 | 37.44 | 1,177 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 1:27:04 | 41.67 | 37.77 | 1,177 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 1:27:04 | 41.99 | 38.09 | 1,186 | 0.29 | 0.36 | 64.9 |
| 4/30/2015 1:27:05 | 42.32 | 38.42 | 1,186 | 0.29 | 0.36 | 64.9 |
| 4/30/2015 1:27:05 | 42.65 | 38.75 | 1,180 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:27:05 | 42.98 | 39.08 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 1:27:06 | 43.31 | 39.41 | 1,174 | 0.29 | 0.37 | 64.2 |
| 4/30/2015 1:27:06 | 43.64 | 39.74 | 1,176 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 1:27:06 | 43.96 | 40.06 | 1,176 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 1:27:06 | 44.29 | 40.39 | 1,172 | 0.29 | 0.37 | 64.1 |
| 4/30/2015 1:27:07 | 44.62 | 40.72 | 1,179 | 0.29 | 0.37 | 64.5 |
| 4/30/2015 1:27:07 | 44.95 | 41.05 | 1,179 | 0.29 | 0.37 | 64.5 |
| 4/30/2015 1:27:07 | 45.28 | 41.38 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:27:08 | 45.60 | 41.70 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:27:08 | 45.93 | 42.03 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:27:08 | 46.26 | 42.36 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:27:08 | 46.59 | 42.69 | 1,182 | 0.28 | 0.38 | 64.6 |
| 4/30/2015 1:27:09 | 46.92 | 43.02 | 1,175 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 1:27:09 | 47.24 | 43.34 | 1,175 | 0.29 | 0.36 | 64.3 |
| 4/30/2015 1:27:18 | 47.57 | 43.67 | 9 | 3.35 | 0.46 | 0.5 |
| 4/30/2015 1:27:20 | 47.90 | 44.00 | 146 | 3.26 | 0.46 | 8.0 |
| 4/30/2015 1:27:26 | 48.23 | 44.33 | 60 | 3.14 | 0.46 | 3.3 |
| 4/30/2015 1:27:34 | 48.56 | 44.66 | 46 | 2.88 | 0.46 | 2.5 |
| 4/30/2015 1:27:40 | 48.88 | 44.98 | 52 | 3.12 | 0.45 | 2.8 |
| 4/30/2015 1:27:46 | 49.21 | 45.31 | 75 | 3.51 | 0.45 | 4.1 |

## K52 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:25:12

**End Date:**
4/30/2015 1:29:34

**Operator Note:**
'3.9 4.1b Auto Complete'

**Northing:**
362,503.40

**Easting:**
245,391.28

**Tide (feet):**
3.90



## Hole: K53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:25:09 | 34.12 | 30.22 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 1:25:08 | 34.45 | 30.55 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:09 | 34.78 | 30.88 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:09 | 35.11 | 31.21 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:10 | 35.43 | 31.53 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:25:10 | 35.76 | 31.86 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/30/2015 1:25:10 | 36.09 | 32.19 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 1:25:11 | 36.42 | 32.52 | 1,124 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 1:25:11 | 36.75 | 32.85 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 1:25:11 | 37.07 | 33.17 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:12 | 37.40 | 33.50 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:12 | 37.73 | 33.83 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 1:25:12 | 38.06 | 34.16 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 1:25:12 | 38.39 | 34.49 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/30/2015 1:25:13 | 38.71 | 34.81 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 1:25:13 | 39.04 | 35.14 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 1:25:13 | 39.37 | 35.47 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:25:14 | 39.70 | 35.80 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:25:14 | 40.03 | 36.13 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/30/2015 1:25:14 | 40.35 | 36.45 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:15 | 40.68 | 36.78 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:15 | 41.01 | 37.11 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/30/2015 1:25:15 | 41.34 | 37.44 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:16 | 41.67 | 37.77 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:16 | 41.99 | 38.09 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:16 | 42.32 | 38.42 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:16 | 42.65 | 38.75 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:17 | 42.98 | 39.08 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:17 | 43.31 | 39.41 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:25:17 | 43.64 | 39.74 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:18 | 43.96 | 40.06 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:25:18 | 44.29 | 40.39 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:18 | 44.62 | 40.72 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:19 | 44.95 | 41.05 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:19 | 45.28 | 41.38 | 1,122 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:19 | 45.60 | 41.70 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:25:20 | 45.93 | 42.03 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:25:20 | 46.26 | 42.36 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:25:21 | 46.59 | 42.69 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:25:21 | 46.92 | 43.02 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:25:21 | 47.24 | 43.34 | 1,104 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 1:25:22 | 47.57 | 43.67 | 1,104 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 1:25:22 | 47.90 | 44.00 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 1:25:22 | 48.23 | 44.33 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 1:25:22 | 48.56 | 44.66 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 1:25:23 | 48.88 | 44.98 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:25:23 | 49.21 | 45.31 | 1,118 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:25:23 | 49.54 | 45.64 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 1:25:24 | 49.87 | 45.97 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:24 | 50.20 | 46.30 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:25:24 | 50.53 | 46.63 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:25:35 | 50.85 | 46.95 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:25:36 | 51.18 | 47.28 | 40 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 1:25:37 | 51.51 | 47.61 | 148 | 1.14 | 0.29 | 8.1 |
| 4/30/2015 1:25:37 | 51.84 | 47.94 | 298 | 1.14 | 0.29 | 16.3 |
| 4/30/2015 1:25:45 | 52.17 | 48.27 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:25:46 | 52.49 | 48.59 | 121 | 1.14 | 0.29 | 6.6 |
| 4/30/2015 1:25:47 | 52.82 | 48.92 | 248 | 1.14 | 0.29 | 13.6 |
| 4/30/2015 1:25:48 | 53.15 | 49.25 | 372 | 1.14 | 0.29 | 20.3 |
| 4/30/2015 1:25:58 | 53.48 | 49.58 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:26:00 | 53.81 | 49.91 | 109 | 1.14 | 0.29 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 1:26:01 | 54.13 | 50.23 | 214 | 1.14 | 0.29 | 11.7 |
| 4/30/2015 | 1:26:02 | 54.46 | 50.56 | 302 | 1.14 | 0.29 | 16.5 |
| 4/30/2015 | 1:26:03 | 54.79 | 50.89 | 277 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 | 1:26:04 | 55.12 | 51.22 | 283 | 1.14 | 0.29 | 15.5 |
| 4/30/2015 | 1:26:24 | 55.45 | 51.55 | 65 | 1.14 | 0.29 | 3.6 |
| 4/30/2015 | 1:26:27 | 55.77 | 51.87 | 129 | 1.14 | 0.29 | 7.1 |
| 4/30/2015 | 1:26:30 | 56.10 | 52.20 | 128 | 1.14 | 0.29 | 7.0 |
| 4/30/2015 | 1:26:37 | 56.43 | 52.53 | 55 | 1.14 | 0.29 | 3.0 |
| 4/30/2015 | 1:26:39 | 56.76 | 52.86 | 158 | 1.14 | 0.29 | 8.6 |
| 4/30/2015 | 1:26:48 | 57.09 | 53.19 | 73 | 1.14 | 0.29 | 4.0 |
| 4/30/2015 | 1:26:54 | 57.41 | 53.51 | 81 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 1:26:56 | 57.74 | 53.84 | 157 | 1.14 | 0.29 | 8.6 |
| 4/30/2015 | 1:27:00 | 58.07 | 54.17 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 | 1:27:02 | 58.40 | 54.50 | 165 | 1.14 | 0.29 | 9.0 |
| 4/30/2015 | 1:27:05 | 58.73 | 54.83 | 67 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 | 1:27:09 | 59.06 | 55.16 | 118 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 | 1:27:09 | 59.15 | 55.25 | 113 | 1.14 | 0.29 | 6.2 |

## K53 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:24:15

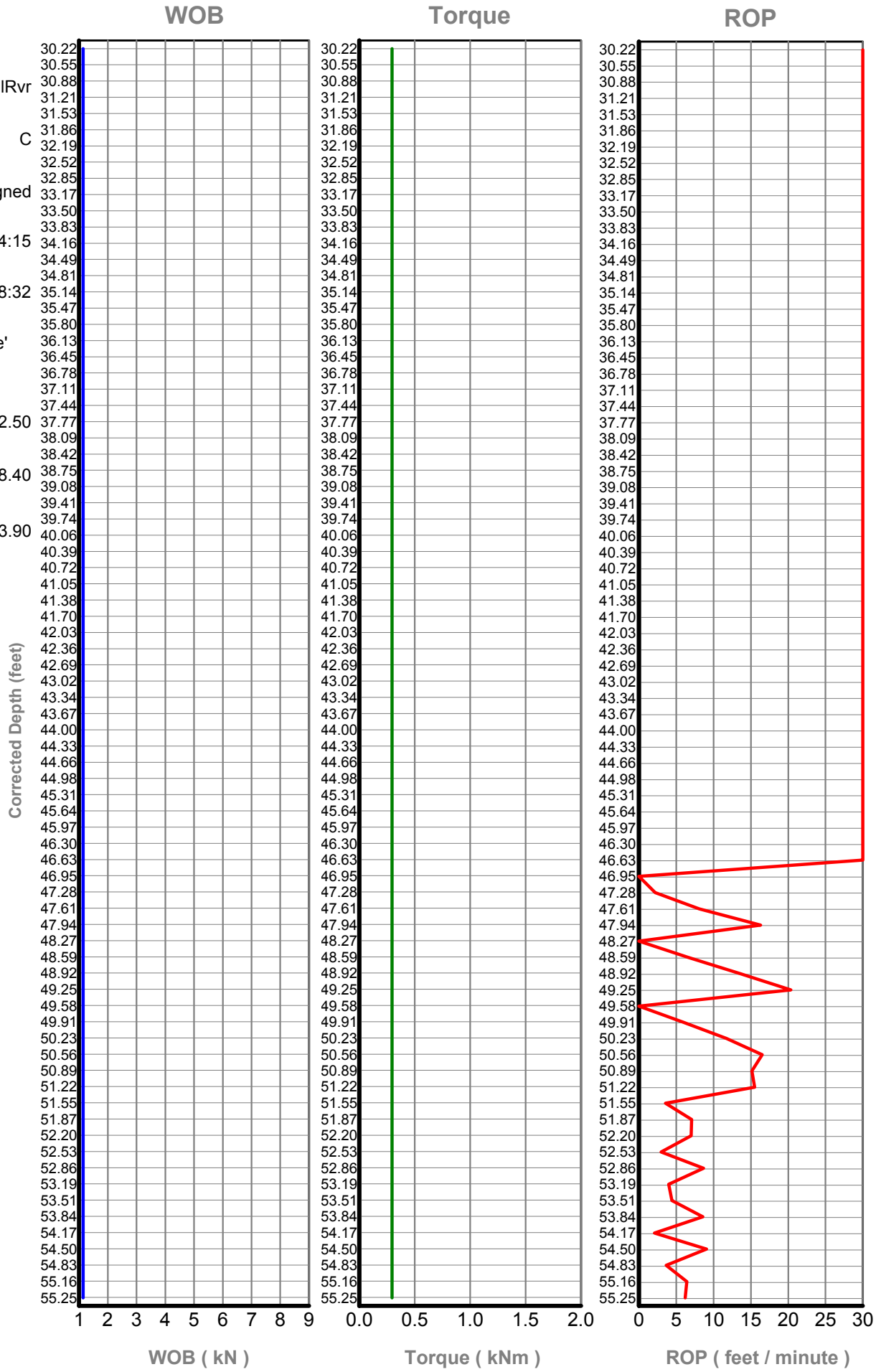
**End Date:**
4/30/2015 1:28:32

**Operator Note:**
'3.9 4.1 c Auto Complete'

**Northing:**
362,552.50

**Easting:**
245,448.40

**Tide (feet):**
3.90



## Hole: K54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:46:12 | 36.42 | 30.02 | 803 | 1.09 | 0.19 | 43.9 |
| 4/29/2015 22:46:12 | 36.75 | 30.35 | 805 | 1.10 | 0.19 | 44.0 |
| 4/29/2015 22:46:13 | 37.07 | 30.67 | 795 | 1.08 | 0.19 | 43.5 |
| 4/29/2015 22:46:14 | 37.40 | 31.00 | 798 | 1.08 | 0.19 | 43.6 |
| 4/29/2015 22:46:14 | 37.73 | 31.33 | 795 | 1.09 | 0.19 | 43.5 |
| 4/29/2015 22:46:15 | 38.06 | 31.66 | 798 | 1.06 | 0.19 | 43.6 |
| 4/29/2015 22:46:15 | 38.39 | 31.99 | 798 | 1.06 | 0.19 | 43.6 |
| 4/29/2015 22:46:15 | 38.71 | 32.31 | 796 | 1.07 | 0.19 | 43.5 |
| 4/29/2015 22:46:16 | 39.04 | 32.64 | 804 | 1.09 | 0.19 | 43.9 |
| 4/29/2015 22:46:16 | 39.37 | 32.97 | 804 | 1.10 | 0.19 | 43.9 |
| 4/29/2015 22:46:17 | 39.70 | 33.30 | 804 | 1.08 | 0.19 | 43.9 |
| 4/29/2015 22:46:17 | 40.03 | 33.63 | 801 | 1.09 | 0.19 | 43.8 |
| 4/29/2015 22:46:18 | 40.35 | 33.95 | 799 | 1.09 | 0.19 | 43.7 |
| 4/29/2015 22:46:18 | 40.68 | 34.28 | 799 | 1.09 | 0.19 | 43.7 |
| 4/29/2015 22:46:18 | 41.01 | 34.61 | 801 | 1.09 | 0.19 | 43.8 |
| 4/29/2015 22:46:19 | 41.34 | 34.94 | 798 | 1.09 | 0.19 | 43.7 |
| 4/29/2015 22:46:19 | 41.67 | 35.27 | 793 | 1.10 | 0.19 | 43.4 |
| 4/29/2015 22:46:20 | 41.99 | 35.59 | 798 | 1.09 | 0.19 | 43.7 |
| 4/29/2015 22:46:20 | 42.32 | 35.92 | 784 | 1.09 | 0.19 | 42.9 |
| 4/29/2015 22:46:21 | 42.65 | 36.25 | 784 | 1.09 | 0.19 | 42.9 |
| 4/29/2015 22:46:21 | 42.98 | 36.58 | 784 | 1.09 | 0.19 | 42.9 |
| 4/29/2015 22:46:21 | 43.31 | 36.91 | 786 | 1.08 | 0.19 | 43.0 |
| 4/29/2015 22:46:22 | 43.64 | 37.24 | 786 | 1.10 | 0.20 | 43.0 |
| 4/29/2015 22:46:22 | 43.96 | 37.56 | 788 | 1.09 | 0.19 | 43.1 |
| 4/29/2015 22:46:23 | 44.29 | 37.89 | 783 | 1.09 | 0.19 | 42.8 |
| 4/29/2015 22:46:24 | 44.62 | 38.22 | 800 | 1.10 | 0.19 | 43.7 |
| 4/29/2015 22:46:24 | 44.95 | 38.55 | 792 | 1.10 | 0.19 | 43.3 |
| 4/29/2015 22:46:25 | 45.28 | 38.88 | 792 | 1.08 | 0.19 | 43.3 |
| 4/29/2015 22:46:25 | 45.60 | 39.20 | 792 | 1.08 | 0.19 | 43.3 |
| 4/29/2015 22:46:25 | 45.93 | 39.53 | 792 | 1.11 | 0.19 | 43.3 |
| 4/29/2015 22:46:26 | 46.26 | 39.86 | 792 | 1.09 | 0.19 | 43.3 |
| 4/29/2015 22:46:26 | 46.59 | 40.19 | 779 | 1.10 | 0.19 | 42.6 |
| 4/29/2015 22:46:27 | 46.92 | 40.52 | 779 | 1.09 | 0.19 | 42.6 |
| 4/29/2015 22:46:27 | 47.24 | 40.84 | 783 | 1.08 | 0.19 | 42.8 |
| 4/29/2015 22:46:28 | 47.57 | 41.17 | 785 | 1.09 | 0.19 | 42.9 |
| 4/29/2015 22:46:28 | 47.90 | 41.50 | 783 | 1.09 | 0.19 | 42.8 |
| 4/29/2015 22:46:29 | 48.23 | 41.83 | 783 | 1.09 | 0.19 | 42.8 |
| 4/29/2015 22:46:29 | 48.56 | 42.16 | 780 | 1.10 | 0.19 | 42.7 |
| 4/29/2015 22:46:29 | 48.88 | 42.48 | 794 | 1.09 | 0.19 | 43.4 |
| 4/29/2015 22:46:30 | 49.21 | 42.81 | 786 | 1.04 | 0.19 | 43.0 |
| 4/29/2015 22:46:30 | 49.54 | 43.14 | 789 | 1.09 | 0.19 | 43.2 |
| 4/29/2015 22:46:31 | 49.87 | 43.47 | 789 | 1.09 | 0.19 | 43.2 |
| 4/29/2015 22:46:31 | 50.20 | 43.80 | 789 | 1.07 | 0.19 | 43.2 |
| 4/29/2015 22:46:32 | 50.53 | 44.13 | 789 | 1.07 | 0.19 | 43.2 |
| 4/29/2015 22:46:32 | 50.85 | 44.45 | 785 | 1.09 | 0.19 | 42.9 |
| 4/29/2015 22:46:32 | 51.18 | 44.78 | 789 | 1.08 | 0.19 | 43.2 |
| 4/29/2015 22:46:33 | 51.51 | 45.11 | 783 | 1.08 | 0.19 | 42.8 |
| 4/29/2015 22:46:34 | 51.84 | 45.44 | 780 | 1.09 | 0.19 | 42.7 |
| 4/29/2015 22:46:34 | 52.17 | 45.77 | 780 | 1.07 | 0.19 | 42.7 |
| 4/29/2015 22:46:35 | 52.49 | 46.09 | 788 | 1.07 | 0.19 | 43.1 |
| 4/29/2015 22:46:35 | 52.82 | 46.42 | 778 | 1.11 | 0.19 | 42.5 |
| 4/29/2015 22:46:36 | 53.15 | 46.75 | 772 | 1.13 | 0.18 | 42.2 |
| 4/29/2015 22:46:53 | 53.48 | 47.08 | 0 | 1.97 | 1.13 | 0.0 |
| 4/29/2015 22:46:55 | 53.81 | 47.41 | 96 | 1.11 | 1.49 | 5.2 |
| 4/29/2015 22:46:56 | 54.13 | 47.73 | 182 | 1.13 | 0.88 | 9.9 |
| 4/29/2015 22:47:20 | 54.46 | 48.06 | 23 | 1.06 | 1.17 | 1.3 |
| 4/29/2015 22:47:24 | 54.79 | 48.39 | 83 | 1.05 | 1.34 | 4.6 |
| 4/29/2015 22:47:30 | 55.12 | 48.72 | 49 | 0.98 | 0.98 | 2.7 |
| 4/29/2015 22:47:39 | 55.45 | 49.05 | 41 | 1.02 | 0.97 | 2.2 |
| 4/29/2015 22:47:42 | 55.77 | 49.37 | 114 | 1.01 | 0.95 | 6.2 |
| 4/29/2015 22:47:48 | 56.10 | 49.70 | 40 | 1.09 | 0.93 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:47:56 | 56.43 | 50.03 | 52 | 1.02 | 0.92 | 2.8 |
| 4/29/2015 | 22:48:03 | 56.76 | 50.36 | 52 | 1.06 | 0.87 | 2.8 |
| 4/29/2015 | 22:48:11 | 57.09 | 50.69 | 52 | 1.05 | 0.94 | 2.8 |
| 4/29/2015 | 22:48:17 | 57.37 | 50.97 | 52 | 1.09 | 1.10 | 2.9 |

## K54 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:44:05

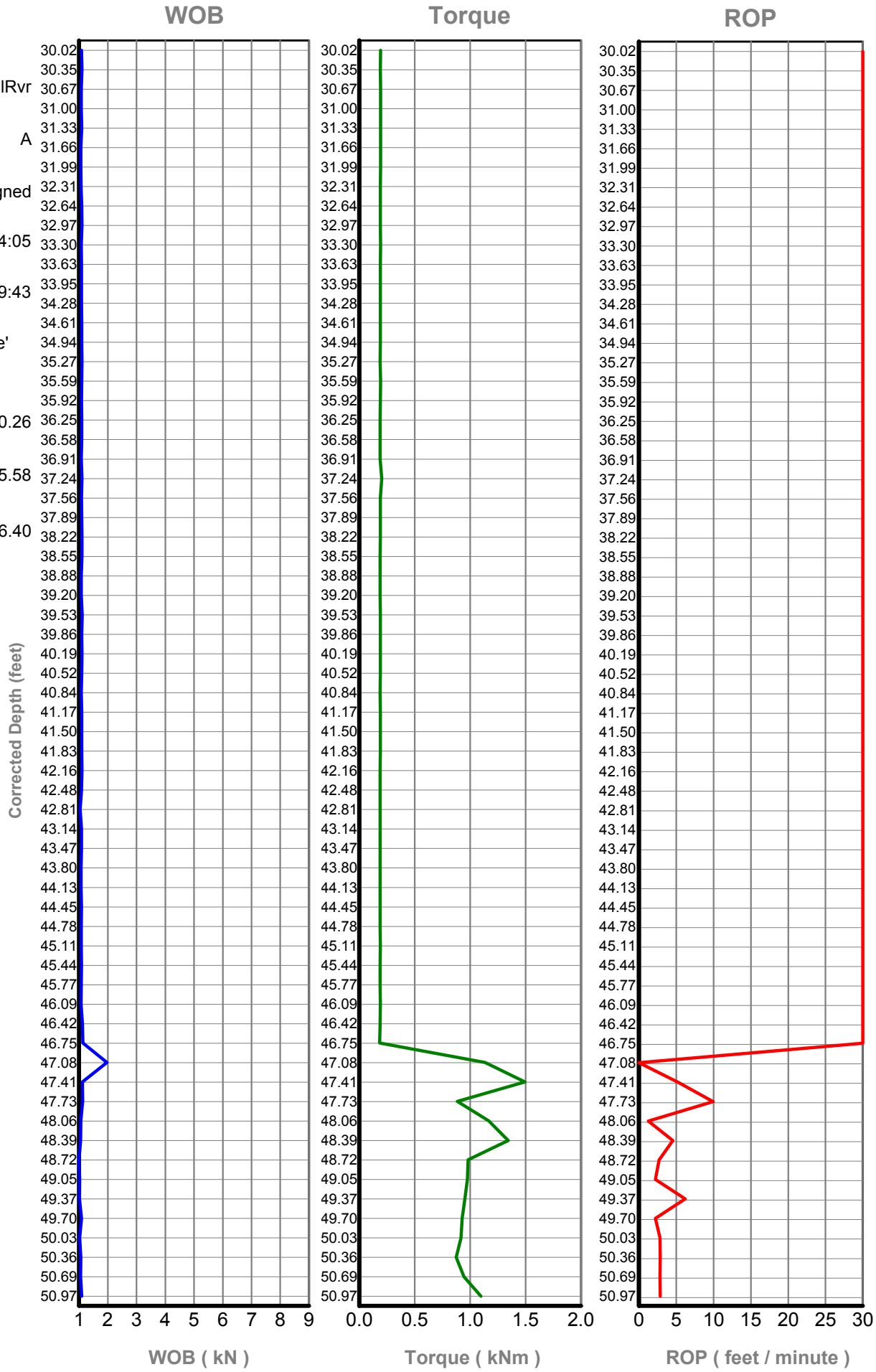
**End Date:**
4/29/2015 22:49:43

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
362,610.26

**Easting:**
245,515.58

**Tide (feet):**
6.40



## Hole: K55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:45:19 | 36.42 | 30.02 | 1,081 | 0.35 | 0.38 | 59.1 |
| 4/29/2015 22:45:19 | 36.75 | 30.35 | 1,087 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 22:45:20 | 37.07 | 30.67 | 1,078 | 0.35 | 0.39 | 59.0 |
| 4/29/2015 22:45:20 | 37.40 | 31.00 | 1,078 | 0.35 | 0.39 | 59.0 |
| 4/29/2015 22:45:20 | 37.73 | 31.33 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/29/2015 22:45:21 | 38.06 | 31.66 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/29/2015 22:45:21 | 38.39 | 31.99 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/29/2015 22:45:21 | 38.71 | 32.31 | 1,087 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 22:45:22 | 39.04 | 32.64 | 1,087 | 0.35 | 0.39 | 59.4 |
| 4/29/2015 22:45:22 | 39.37 | 32.97 | 1,061 | 0.34 | 0.39 | 58.0 |
| 4/29/2015 22:45:22 | 39.70 | 33.30 | 1,061 | 0.35 | 0.38 | 58.0 |
| 4/29/2015 22:45:23 | 40.03 | 33.63 | 1,061 | 0.35 | 0.38 | 58.0 |
| 4/29/2015 22:45:23 | 40.35 | 33.95 | 1,074 | 0.35 | 0.38 | 58.7 |
| 4/29/2015 22:45:23 | 40.68 | 34.28 | 1,079 | 0.35 | 0.38 | 59.0 |
| 4/29/2015 22:45:24 | 41.01 | 34.61 | 1,079 | 0.35 | 0.38 | 59.0 |
| 4/29/2015 22:45:24 | 41.34 | 34.94 | 1,076 | 0.35 | 0.39 | 58.9 |
| 4/29/2015 22:45:24 | 41.67 | 35.27 | 1,077 | 0.35 | 0.38 | 58.9 |
| 4/29/2015 22:45:25 | 41.99 | 35.59 | 1,077 | 0.35 | 0.38 | 58.9 |
| 4/29/2015 22:45:25 | 42.32 | 35.92 | 1,099 | 0.35 | 0.38 | 60.1 |
| 4/29/2015 22:45:25 | 42.65 | 36.25 | 1,099 | 0.35 | 0.38 | 60.1 |
| 4/29/2015 22:45:26 | 42.98 | 36.58 | 1,096 | 0.35 | 0.38 | 60.0 |
| 4/29/2015 22:45:26 | 43.31 | 36.91 | 1,085 | 0.35 | 0.38 | 59.3 |
| 4/29/2015 22:45:27 | 43.64 | 37.24 | 1,085 | 0.35 | 0.38 | 59.3 |
| 4/29/2015 22:45:27 | 43.96 | 37.56 | 1,104 | 0.39 | 0.38 | 60.4 |
| 4/29/2015 22:45:27 | 44.29 | 37.89 | 1,094 | 0.35 | 0.38 | 59.8 |
| 4/29/2015 22:45:28 | 44.62 | 38.22 | 1,094 | 0.35 | 0.38 | 59.8 |
| 4/29/2015 22:45:28 | 44.95 | 38.55 | 1,103 | 0.35 | 0.38 | 60.3 |
| 4/29/2015 22:45:28 | 45.28 | 38.88 | 1,103 | 0.35 | 0.38 | 60.3 |
| 4/29/2015 22:45:28 | 45.60 | 39.20 | 1,091 | 0.35 | 0.38 | 59.6 |
| 4/29/2015 22:45:29 | 45.93 | 39.53 | 1,096 | 0.35 | 0.38 | 60.0 |
| 4/29/2015 22:45:29 | 46.26 | 39.86 | 1,096 | 0.35 | 0.38 | 60.0 |
| 4/29/2015 22:45:29 | 46.59 | 40.19 | 1,083 | 0.35 | 0.39 | 59.2 |
| 4/29/2015 22:45:30 | 46.92 | 40.52 | 1,093 | 0.35 | 0.39 | 59.8 |
| 4/29/2015 22:45:30 | 47.24 | 40.84 | 1,093 | 0.35 | 0.39 | 59.8 |
| 4/29/2015 22:45:30 | 47.57 | 41.17 | 1,083 | 0.35 | 0.39 | 59.2 |
| 4/29/2015 22:45:31 | 47.90 | 41.50 | 1,083 | 0.35 | 0.39 | 59.2 |
| 4/29/2015 22:45:31 | 48.23 | 41.83 | 1,090 | 0.35 | 0.38 | 59.6 |
| 4/29/2015 22:45:31 | 48.56 | 42.16 | 1,087 | 0.35 | 0.38 | 59.4 |
| 4/29/2015 22:45:32 | 48.88 | 42.48 | 1,087 | 0.35 | 0.38 | 59.4 |
| 4/29/2015 22:45:32 | 49.21 | 42.81 | 1,100 | 0.35 | 0.39 | 60.1 |
| 4/29/2015 22:45:32 | 49.54 | 43.14 | 1,084 | 0.35 | 0.39 | 59.3 |
| 4/29/2015 22:45:33 | 49.87 | 43.47 | 1,084 | 0.35 | 0.39 | 59.3 |
| 4/29/2015 22:45:33 | 50.20 | 43.80 | 1,084 | 0.35 | 0.38 | 59.3 |
| 4/29/2015 22:45:33 | 50.53 | 44.13 | 1,087 | 0.35 | 0.38 | 59.5 |
| 4/29/2015 22:45:34 | 50.85 | 44.45 | 1,087 | 0.35 | 0.38 | 59.5 |
| 4/29/2015 22:45:34 | 51.18 | 44.78 | 1,093 | 0.35 | 0.38 | 59.8 |
| 4/29/2015 22:45:34 | 51.51 | 45.11 | 1,093 | 0.35 | 0.38 | 59.8 |
| 4/29/2015 22:45:34 | 51.84 | 45.44 | 1,080 | 0.35 | 0.38 | 59.1 |
| 4/29/2015 22:45:35 | 52.17 | 45.77 | 1,093 | 0.34 | 0.39 | 59.8 |
| 4/29/2015 22:45:36 | 52.49 | 46.09 | 1,093 | 0.34 | 0.39 | 59.8 |
| 4/29/2015 22:45:40 | 52.82 | 46.42 | 80 | 3.49 | 0.46 | 4.4 |
| 4/29/2015 22:45:42 | 53.15 | 46.75 | 156 | 3.20 | 0.46 | 8.5 |
| 4/29/2015 22:45:45 | 53.48 | 47.08 | 125 | 3.20 | 0.46 | 6.9 |
| 4/29/2015 22:45:49 | 53.81 | 47.41 | 98 | 3.71 | 0.47 | 5.4 |
| 4/29/2015 22:45:52 | 54.13 | 47.73 | 89 | 3.86 | 0.47 | 4.9 |
| 4/29/2015 22:45:56 | 54.46 | 48.06 | 91 | 4.21 | 0.46 | 5.0 |
| 4/29/2015 22:46:01 | 54.79 | 48.39 | 74 | 3.82 | 0.47 | 4.1 |
| 4/29/2015 22:46:06 | 55.12 | 48.72 | 67 | 3.67 | 0.47 | 3.6 |
| 4/29/2015 22:46:12 | 55.45 | 49.05 | 64 | 3.58 | 0.48 | 3.5 |
| 4/29/2015 22:46:17 | 55.77 | 49.37 | 64 | 3.42 | 0.47 | 3.5 |
| 4/29/2015 22:46:20 | 55.91 | 49.51 | 60 | 3.52 | 0.47 | 3.3 |

## K55 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:43:42

**End Date:**
4/29/2015 22:47:24

**Operator Note:**
'6.4 6.4b Auto Complete'

**Northing:**
362,652.87

**Easting:**
245,577.33

**Tide (feet):**
6.40



## Hole: K56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:43:30 | 36.42 | 30.02 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 22:43:31 | 36.75 | 30.35 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 22:43:31 | 37.07 | 30.67 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:31 | 37.40 | 31.00 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:31 | 37.73 | 31.33 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 22:43:32 | 38.06 | 31.66 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:32 | 38.39 | 31.99 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:32 | 38.71 | 32.31 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:43:33 | 39.04 | 32.64 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:33 | 39.37 | 32.97 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:43:33 | 39.70 | 33.30 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/29/2015 22:43:34 | 40.03 | 33.63 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/29/2015 22:43:34 | 40.35 | 33.95 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/29/2015 22:43:34 | 40.68 | 34.28 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:35 | 41.01 | 34.61 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:35 | 41.34 | 34.94 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:35 | 41.67 | 35.27 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:36 | 41.99 | 35.59 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:36 | 42.32 | 35.92 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:36 | 42.65 | 36.25 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:36 | 42.98 | 36.58 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:43:37 | 43.31 | 36.91 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:43:37 | 43.64 | 37.24 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:43:37 | 43.96 | 37.56 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/29/2015 22:43:38 | 44.29 | 37.89 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:38 | 44.62 | 38.22 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:38 | 44.95 | 38.55 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:39 | 45.28 | 38.88 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 22:43:40 | 45.60 | 39.20 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 22:43:40 | 45.93 | 39.53 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 22:43:40 | 46.26 | 39.86 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 22:43:40 | 46.59 | 40.19 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:41 | 46.92 | 40.52 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:41 | 47.24 | 40.84 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:43:41 | 47.57 | 41.17 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:43:42 | 47.90 | 41.50 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:43:42 | 48.23 | 41.83 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:43:42 | 48.56 | 42.16 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:43:43 | 48.88 | 42.48 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:43:43 | 49.21 | 42.81 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:43:43 | 49.54 | 43.14 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 22:43:44 | 49.87 | 43.47 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 22:43:44 | 50.20 | 43.80 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:43:44 | 50.53 | 44.13 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:43:45 | 50.85 | 44.45 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:43:45 | 51.18 | 44.78 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:43:45 | 51.51 | 45.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:43:46 | 51.84 | 45.44 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:43:46 | 52.17 | 45.77 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:43:58 | 52.49 | 46.09 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 22:44:04 | 52.82 | 46.42 | 67 | 1.14 | 0.29 | 3.7 |
| 4/29/2015 22:44:11 | 53.15 | 46.75 | 31 | 1.14 | 0.29 | 1.7 |
| 4/29/2015 22:44:23 | 53.48 | 47.08 | 31 | 1.14 | 0.29 | 1.7 |
| 4/29/2015 22:44:27 | 53.81 | 47.41 | 99 | 1.14 | 0.29 | 5.4 |
| 4/29/2015 22:44:29 | 54.13 | 47.73 | 159 | 1.14 | 0.29 | 8.7 |
| 4/29/2015 22:44:34 | 54.46 | 48.06 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 22:44:39 | 54.79 | 48.39 | 88 | 1.14 | 0.29 | 4.8 |
| 4/29/2015 22:44:42 | 55.12 | 48.72 | 115 | 1.14 | 0.29 | 6.3 |

## K56 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:42:33

**End Date:**
4/29/2015 22:46:10

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
362,695.47

**Easting:**
245,639.16

**Tide (feet):**
6.40



## Hole: K57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:28:27 | 36.42 | 30.02 | 1,114 | 1.53 | 0.22 | 60.9 |
| 4/29/2015 22:28:28 | 36.75 | 30.35 | 1,114 | 1.53 | 0.22 | 60.9 |
| 4/29/2015 22:28:28 | 37.07 | 30.67 | 1,110 | 1.52 | 0.22 | 60.7 |
| 4/29/2015 22:28:28 | 37.40 | 31.00 | 1,110 | 1.53 | 0.22 | 60.7 |
| 4/29/2015 22:28:29 | 37.73 | 31.33 | 1,110 | 1.53 | 0.22 | 60.7 |
| 4/29/2015 22:28:29 | 38.06 | 31.66 | 1,107 | 1.53 | 0.22 | 60.5 |
| 4/29/2015 22:28:29 | 38.39 | 31.99 | 1,107 | 1.53 | 0.22 | 60.5 |
| 4/29/2015 22:28:29 | 38.71 | 32.31 | 1,107 | 1.53 | 0.22 | 60.5 |
| 4/29/2015 22:28:30 | 39.04 | 32.64 | 1,103 | 1.51 | 0.22 | 60.3 |
| 4/29/2015 22:28:31 | 39.37 | 32.97 | 1,103 | 1.51 | 0.22 | 60.3 |
| 4/29/2015 22:28:30 | 39.70 | 33.30 | 1,106 | 1.54 | 0.22 | 60.5 |
| 4/29/2015 22:28:31 | 40.03 | 33.63 | 1,106 | 1.54 | 0.22 | 60.5 |
| 4/29/2015 22:28:31 | 40.35 | 33.95 | 1,113 | 1.51 | 0.22 | 60.9 |
| 4/29/2015 22:28:32 | 40.68 | 34.28 | 1,110 | 1.53 | 0.22 | 60.7 |
| 4/29/2015 22:28:32 | 41.01 | 34.61 | 1,110 | 1.53 | 0.22 | 60.7 |
| 4/29/2015 22:28:32 | 41.34 | 34.94 | 1,110 | 1.52 | 0.22 | 60.7 |
| 4/29/2015 22:28:33 | 41.67 | 35.27 | 1,110 | 1.52 | 0.22 | 60.7 |
| 4/29/2015 22:28:33 | 41.99 | 35.59 | 1,110 | 1.52 | 0.22 | 60.7 |
| 4/29/2015 22:28:33 | 42.32 | 35.92 | 1,111 | 1.51 | 0.22 | 60.8 |
| 4/29/2015 22:28:34 | 42.65 | 36.25 | 1,111 | 1.51 | 0.22 | 60.8 |
| 4/29/2015 22:28:34 | 42.98 | 36.58 | 1,101 | 1.51 | 0.22 | 60.2 |
| 4/29/2015 22:28:34 | 43.31 | 36.91 | 1,095 | 1.51 | 0.22 | 59.9 |
| 4/29/2015 22:28:35 | 43.64 | 37.24 | 1,095 | 1.51 | 0.22 | 59.9 |
| 4/29/2015 22:28:35 | 43.96 | 37.56 | 1,097 | 1.51 | 0.22 | 60.0 |
| 4/29/2015 22:28:35 | 44.29 | 37.89 | 1,104 | 1.53 | 0.22 | 60.4 |
| 4/29/2015 22:28:36 | 44.62 | 38.22 | 1,104 | 1.53 | 0.22 | 60.4 |
| 4/29/2015 22:28:36 | 44.95 | 38.55 | 1,101 | 1.47 | 0.22 | 60.2 |
| 4/29/2015 22:28:36 | 45.28 | 38.88 | 1,101 | 1.47 | 0.22 | 60.2 |
| 4/29/2015 22:28:36 | 45.60 | 39.20 | 1,101 | 1.51 | 0.22 | 60.2 |
| 4/29/2015 22:28:37 | 45.93 | 39.53 | 1,104 | 1.53 | 0.22 | 60.4 |
| 4/29/2015 22:28:37 | 46.26 | 39.86 | 1,104 | 1.53 | 0.22 | 60.4 |
| 4/29/2015 22:28:37 | 46.59 | 40.19 | 1,108 | 1.51 | 0.22 | 60.6 |
| 4/29/2015 22:28:38 | 46.92 | 40.52 | 1,098 | 1.50 | 0.22 | 60.1 |
| 4/29/2015 22:28:38 | 47.24 | 40.84 | 1,098 | 1.50 | 0.22 | 60.1 |
| 4/29/2015 22:28:38 | 47.57 | 41.17 | 1,095 | 1.53 | 0.22 | 59.9 |
| 4/29/2015 22:28:39 | 47.90 | 41.50 | 1,095 | 1.53 | 0.22 | 59.9 |
| 4/29/2015 22:28:39 | 48.23 | 41.83 | 1,104 | 1.46 | 0.23 | 60.4 |
| 4/29/2015 22:28:39 | 48.56 | 42.16 | 1,087 | 1.36 | 0.82 | 59.4 |
| 4/29/2015 22:28:40 | 48.88 | 42.48 | 1,087 | 1.36 | 0.82 | 59.4 |
| 4/29/2015 22:28:40 | 49.21 | 42.81 | 958 | 1.40 | 0.84 | 52.4 |
| 4/29/2015 22:28:46 | 49.54 | 43.14 | 82 | 1.11 | 1.18 | 4.5 |
| 4/29/2015 22:29:04 | 49.87 | 43.47 | 65 | 0.92 | 1.43 | 3.6 |
| 4/29/2015 22:29:06 | 50.20 | 43.80 | 142 | 1.06 | 1.31 | 7.8 |
| 4/29/2015 22:29:15 | 50.53 | 44.13 | 72 | 1.00 | 1.19 | 4.0 |
| 4/29/2015 22:29:18 | 50.85 | 44.45 | 113 | 1.08 | 1.12 | 6.2 |
| 4/29/2015 22:29:21 | 51.18 | 44.78 | 130 | 1.11 | 1.16 | 7.1 |
| 4/29/2015 22:29:25 | 51.51 | 45.11 | 80 | 1.08 | 1.12 | 4.4 |
| 4/29/2015 22:29:30 | 51.84 | 45.44 | 69 | 1.09 | 1.00 | 3.8 |
| 4/29/2015 22:29:35 | 52.17 | 45.77 | 77 | 1.08 | 0.98 | 4.2 |
| 4/29/2015 22:29:39 | 52.49 | 46.09 | 84 | 1.12 | 1.16 | 4.6 |
| 4/29/2015 22:29:42 | 52.82 | 46.42 | 105 | 1.07 | 0.97 | 5.7 |
| 4/29/2015 22:29:51 | 53.15 | 46.75 | 62 | 1.01 | 0.99 | 3.4 |
| 4/29/2015 22:29:56 | 53.48 | 47.08 | 86 | 1.05 | 0.93 | 4.7 |
| 4/29/2015 22:30:00 | 53.81 | 47.41 | 74 | 0.98 | 1.02 | 4.0 |
| 4/29/2015 22:30:04 | 54.13 | 47.73 | 82 | 1.12 | 1.04 | 4.5 |
| 4/29/2015 22:30:07 | 54.46 | 48.06 | 148 | 1.01 | 0.75 | 8.1 |
| 4/29/2015 22:30:20 | 54.79 | 48.39 | 47 | 1.01 | 0.83 | 2.6 |
| 4/29/2015 22:30:28 | 55.12 | 48.72 | 51 | 1.00 | 0.80 | 2.8 |
| 4/29/2015 22:30:37 | 55.45 | 49.05 | 43 | 1.02 | 0.82 | 2.4 |
| 4/29/2015 22:30:45 | 55.77 | 49.37 | 46 | 1.08 | 0.91 | 2.5 |
| 4/29/2015 22:30:46 | 55.83 | 49.43 | 49 | 1.09 | 0.77 | 2.7 |

## K57 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:26:29

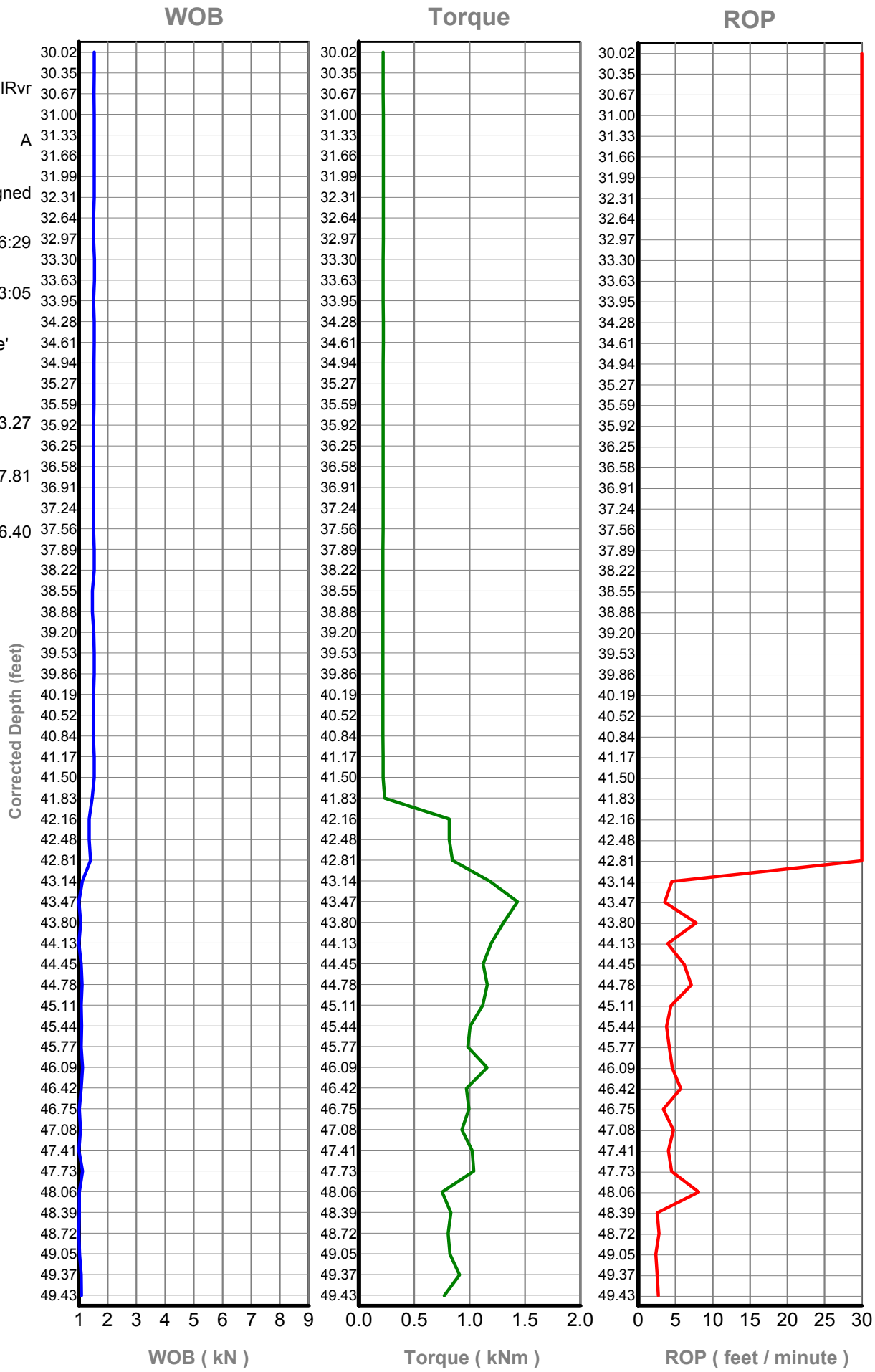
**End Date:**
4/29/2015 22:43:05

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
362,753.27

**Easting:**
245,697.81

**Tide (feet):**
6.40



## Hole: K58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:29:40 | 36.42 | 30.02 | 1,098 | 0.33 | 0.38 | 60.0 |
| 4/29/2015 22:29:40 | 36.75 | 30.35 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 22:29:41 | 37.07 | 30.67 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 22:29:41 | 37.40 | 31.00 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 22:29:41 | 37.73 | 31.33 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 22:29:41 | 38.06 | 31.66 | 1,101 | 0.33 | 0.38 | 60.2 |
| 4/29/2015 22:29:42 | 38.39 | 31.99 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 22:29:42 | 38.71 | 32.31 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 22:29:42 | 39.04 | 32.64 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 22:29:43 | 39.37 | 32.97 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/29/2015 22:29:43 | 39.70 | 33.30 | 1,110 | 0.34 | 0.39 | 60.7 |
| 4/29/2015 22:29:43 | 40.03 | 33.63 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 22:29:44 | 40.35 | 33.95 | 1,107 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 22:29:44 | 40.68 | 34.28 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 22:29:44 | 41.01 | 34.61 | 1,097 | 0.33 | 0.39 | 60.0 |
| 4/29/2015 22:29:45 | 41.34 | 34.94 | 1,097 | 0.33 | 0.39 | 60.0 |
| 4/29/2015 22:29:45 | 41.67 | 35.27 | 1,108 | 0.33 | 0.38 | 60.6 |
| 4/29/2015 22:29:45 | 41.99 | 35.59 | 1,108 | 0.33 | 0.38 | 60.6 |
| 4/29/2015 22:29:45 | 42.32 | 35.92 | 1,108 | 0.33 | 0.39 | 60.6 |
| 4/29/2015 22:29:46 | 42.65 | 36.25 | 1,102 | 0.33 | 0.38 | 60.2 |
| 4/29/2015 22:29:46 | 42.98 | 36.58 | 1,102 | 0.33 | 0.38 | 60.2 |
| 4/29/2015 22:29:46 | 43.31 | 36.91 | 1,121 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:29:47 | 43.64 | 37.24 | 1,121 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:29:47 | 43.96 | 37.56 | 1,131 | 0.33 | 0.38 | 61.9 |
| 4/29/2015 22:29:47 | 44.29 | 37.89 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/29/2015 22:29:48 | 44.62 | 38.22 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/29/2015 22:29:48 | 44.95 | 38.55 | 1,114 | 0.33 | 0.37 | 60.9 |
| 4/29/2015 22:29:49 | 45.28 | 38.88 | 1,135 | 0.33 | 0.38 | 62.1 |
| 4/29/2015 22:29:49 | 45.60 | 39.20 | 1,135 | 0.33 | 0.38 | 62.1 |
| 4/29/2015 22:29:49 | 45.93 | 39.53 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 22:29:50 | 46.26 | 39.86 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 22:29:50 | 46.59 | 40.19 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 22:29:50 | 46.92 | 40.52 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:29:51 | 47.24 | 40.84 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:29:51 | 47.57 | 41.17 | 1,128 | 0.33 | 0.38 | 61.7 |
| 4/29/2015 22:29:51 | 47.90 | 41.50 | 1,128 | 0.33 | 0.38 | 61.7 |
| 4/29/2015 22:29:51 | 48.23 | 41.83 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 22:29:52 | 48.56 | 42.16 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 22:29:52 | 48.88 | 42.48 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/29/2015 22:29:52 | 49.21 | 42.81 | 1,106 | 0.33 | 0.38 | 60.5 |
| 4/29/2015 22:29:53 | 49.54 | 43.14 | 1,120 | 0.33 | 0.41 | 61.2 |
| 4/29/2015 22:29:53 | 49.87 | 43.47 | 1,120 | 0.33 | 0.41 | 61.2 |
| 4/29/2015 22:29:57 | 50.20 | 43.80 | 88 | 3.28 | 0.46 | 4.8 |
| 4/29/2015 22:30:02 | 50.53 | 44.13 | 26 | 3.47 | 0.45 | 1.4 |
| 4/29/2015 22:30:08 | 50.85 | 44.45 | 44 | 3.75 | 0.46 | 2.4 |
| 4/29/2015 22:30:10 | 51.18 | 44.78 | 174 | 3.94 | 0.46 | 9.5 |
| 4/29/2015 22:30:12 | 51.51 | 45.11 | 173 | 3.75 | 0.46 | 9.5 |
| 4/29/2015 22:30:14 | 51.84 | 45.44 | 157 | 3.33 | 0.46 | 8.6 |
| 4/29/2015 22:30:17 | 52.17 | 45.77 | 148 | 3.94 | 0.46 | 8.1 |
| 4/29/2015 22:30:20 | 52.49 | 46.09 | 147 | 4.10 | 0.46 | 8.0 |
| 4/29/2015 22:30:22 | 52.82 | 46.42 | 130 | 4.32 | 0.46 | 7.1 |
| 4/29/2015 22:30:26 | 53.15 | 46.75 | 102 | 4.00 | 0.47 | 5.6 |
| 4/29/2015 22:30:29 | 53.48 | 47.08 | 105 | 3.67 | 0.46 | 5.7 |
| 4/29/2015 22:30:33 | 53.81 | 47.41 | 100 | 4.26 | 0.47 | 5.5 |
| 4/29/2015 22:30:36 | 54.13 | 47.73 | 113 | 3.89 | 0.47 | 6.2 |
| 4/29/2015 22:30:39 | 54.46 | 48.06 | 113 | 3.69 | 0.47 | 6.2 |
| 4/29/2015 22:30:46 | 54.79 | 48.39 | 59 | 3.79 | 0.48 | 3.2 |
| 4/29/2015 22:30:53 | 55.12 | 48.72 | 48 | 3.66 | 0.47 | 2.6 |
| 4/29/2015 22:30:56 | 55.45 | 49.05 | 89 | 3.58 | 0.46 | 4.8 |
| 4/29/2015 22:31:01 | 55.77 | 49.37 | 79 | 3.09 | 0.48 | 4.3 |
| 4/29/2015 22:31:09 | 56.10 | 49.70 | 47 | 2.86 | 0.46 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:31:16 | 56.43 | 50.03 | 56 | 3.98 | 0.46 | 3.0 |
| 4/29/2015 | 22:31:23 | 56.76 | 50.36 | 40 | 3.74 | 0.46 | 2.2 |

## K58 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:27:57

**End Date:**
4/29/2015 22:32:53

**Operator Note:**
'6.4 6.4b Auto Complete'

**Northing:**
362,799.74

**Easting:**
245,756.68

**Tide (feet):**
6.40



## Hole: K59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:27:53 | 36.42 | 30.02 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 22:27:53 | 36.75 | 30.35 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:53 | 37.07 | 30.67 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:53 | 37.40 | 31.00 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 22:27:54 | 37.73 | 31.33 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:55 | 38.06 | 31.66 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:55 | 38.39 | 31.99 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 22:27:55 | 38.71 | 32.31 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 22:27:55 | 39.04 | 32.64 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/29/2015 22:27:56 | 39.37 | 32.97 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:27:56 | 39.70 | 33.30 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:27:56 | 40.03 | 33.63 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:57 | 40.35 | 33.95 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:57 | 40.68 | 34.28 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:57 | 41.01 | 34.61 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:58 | 41.34 | 34.94 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:58 | 41.67 | 35.27 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/29/2015 22:27:58 | 41.99 | 35.59 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 22:27:59 | 42.32 | 35.92 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 22:27:59 | 42.65 | 36.25 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:27:59 | 42.98 | 36.58 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:28:00 | 43.31 | 36.91 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:28:00 | 43.64 | 37.24 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:00 | 43.96 | 37.56 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:00 | 44.29 | 37.89 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:01 | 44.62 | 38.22 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:01 | 44.95 | 38.55 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:01 | 45.28 | 38.88 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:28:02 | 45.60 | 39.20 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 22:28:02 | 45.93 | 39.53 | 1,102 | 1.14 | 0.29 | 60.2 |
| 4/29/2015 22:28:02 | 46.26 | 39.86 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:28:03 | 46.59 | 40.19 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:28:03 | 46.92 | 40.52 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:03 | 47.24 | 40.84 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:04 | 47.57 | 41.17 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/29/2015 22:28:04 | 47.90 | 41.50 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/29/2015 22:28:04 | 48.23 | 41.83 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:28:05 | 48.56 | 42.16 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/29/2015 22:28:05 | 48.88 | 42.48 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/29/2015 22:28:05 | 49.21 | 42.81 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:28:06 | 49.54 | 43.14 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/29/2015 22:28:06 | 49.87 | 43.47 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:28:07 | 50.20 | 43.80 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:28:07 | 50.53 | 44.13 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 22:28:23 | 50.85 | 44.45 | 9 | 1.14 | 0.29 | 0.5 |
| 4/29/2015 22:28:23 | 51.18 | 44.78 | 137 | 1.14 | 0.29 | 7.5 |
| 4/29/2015 22:28:24 | 51.51 | 45.11 | 237 | 1.14 | 0.29 | 13.0 |
| 4/29/2015 22:28:24 | 51.84 | 45.44 | 360 | 1.14 | 0.29 | 19.7 |
| 4/29/2015 22:28:30 | 52.17 | 45.77 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 22:28:31 | 52.49 | 46.09 | 210 | 1.14 | 0.29 | 11.5 |
| 4/29/2015 22:28:32 | 52.82 | 46.42 | 310 | 1.14 | 0.29 | 16.9 |
| 4/29/2015 22:28:37 | 53.15 | 46.75 | 35 | 1.14 | 0.29 | 1.9 |
| 4/29/2015 22:28:38 | 53.48 | 47.08 | 223 | 1.14 | 0.29 | 12.2 |
| 4/29/2015 22:28:38 | 53.81 | 47.41 | 312 | 1.14 | 0.29 | 17.0 |
| 4/29/2015 22:28:45 | 54.13 | 47.73 | 64 | 1.14 | 0.29 | 3.5 |
| 4/29/2015 22:28:45 | 54.46 | 48.06 | 170 | 1.14 | 0.29 | 9.3 |
| 4/29/2015 22:28:46 | 54.79 | 48.39 | 373 | 1.14 | 0.29 | 20.4 |
| 4/29/2015 22:28:47 | 55.12 | 48.72 | 439 | 1.14 | 0.29 | 24.0 |
| 4/29/2015 22:29:11 | 55.45 | 49.05 | 27 | 1.14 | 0.29 | 1.5 |
| 4/29/2015 22:29:14 | 55.77 | 49.37 | 99 | 1.14 | 0.29 | 5.4 |
| 4/29/2015 22:29:18 | 56.10 | 49.70 | 103 | 1.14 | 0.29 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:29:21 | 56.43 | 50.03 | 107 | 1.14 | 0.29 | 5.8 |
| 4/29/2015 | 22:29:24 | 56.76 | 50.36 | 119 | 1.14 | 0.29 | 6.5 |
| 4/29/2015 | 22:29:28 | 57.09 | 50.69 | 106 | 1.14 | 0.29 | 5.8 |
| 4/29/2015 | 22:29:31 | 57.41 | 51.01 | 102 | 1.14 | 0.29 | 5.6 |
| 4/29/2015 | 22:29:36 | 57.74 | 51.34 | 76 | 1.14 | 0.29 | 4.2 |
| 4/29/2015 | 22:29:41 | 58.07 | 51.67 | 76 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 | 22:29:45 | 58.40 | 52.00 | 88 | 1.14 | 0.29 | 4.8 |
| 4/29/2015 | 22:29:47 | 58.73 | 52.33 | 155 | 1.14 | 0.29 | 8.5 |
| 4/29/2015 | 22:29:49 | 59.06 | 52.66 | 138 | 1.14 | 0.29 | 7.6 |
| 4/29/2015 | 22:29:53 | 59.38 | 52.98 | 104 | 1.14 | 0.29 | 5.7 |
| 4/29/2015 | 22:30:04 | 59.65 | 53.25 | 15 | 1.14 | 0.29 | 0.8 |

## K59 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:26:56

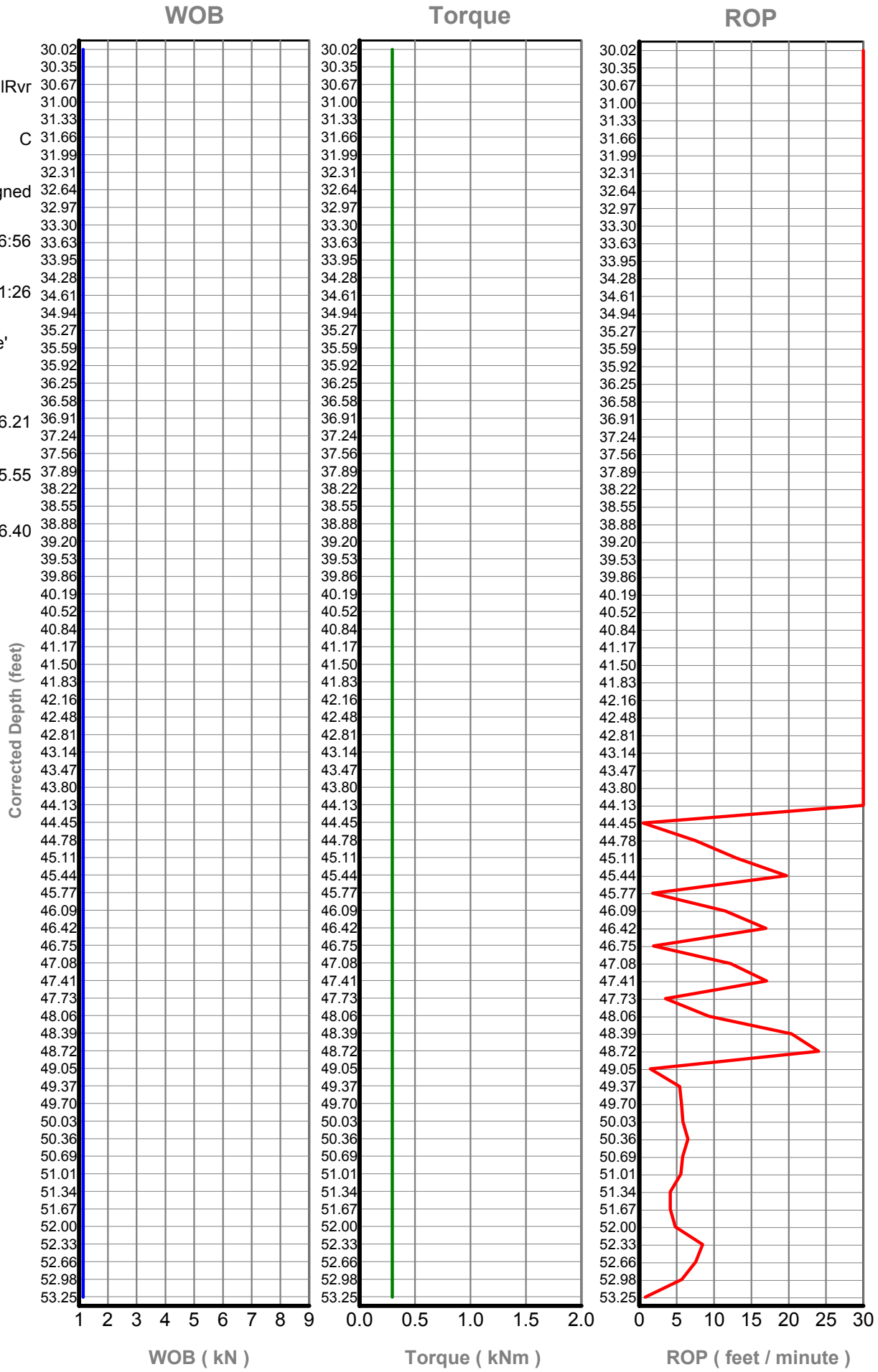
**End Date:**
4/29/2015 22:31:26

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
362,846.21

**Easting:**
245,815.55

**Tide (feet):**
6.40



## Hole: K6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 16:53:44 | 30.84 | 30.14 | 1,218 | 1.14 | 0.29 | 66.6 |
| 4/29/2015 16:53:44 | 31.17 | 30.47 | 1,228 | 1.14 | 0.29 | 67.2 |
| 4/29/2015 16:53:45 | 31.50 | 30.80 | 1,228 | 1.14 | 0.29 | 67.2 |
| 4/29/2015 16:53:45 | 31.82 | 31.12 | 1,245 | 1.14 | 0.29 | 68.1 |
| 4/29/2015 16:53:45 | 32.15 | 31.45 | 1,245 | 1.14 | 0.29 | 68.1 |
| 4/29/2015 16:53:45 | 32.48 | 31.78 | 1,230 | 1.14 | 0.29 | 67.3 |
| 4/29/2015 16:53:46 | 32.81 | 32.11 | 1,230 | 1.14 | 0.29 | 67.3 |
| 4/29/2015 16:53:46 | 33.14 | 32.44 | 1,227 | 1.14 | 0.29 | 67.1 |
| 4/29/2015 16:53:46 | 33.46 | 32.76 | 1,225 | 1.14 | 0.29 | 67.0 |
| 4/29/2015 16:53:47 | 33.79 | 33.09 | 1,225 | 1.14 | 0.29 | 67.0 |
| 4/29/2015 16:53:47 | 34.12 | 33.42 | 1,214 | 1.14 | 0.29 | 66.4 |
| 4/29/2015 16:53:48 | 34.45 | 33.75 | 1,214 | 1.14 | 0.29 | 66.4 |
| 4/29/2015 16:53:47 | 34.78 | 34.08 | 1,205 | 1.14 | 0.29 | 65.9 |
| 4/29/2015 16:54:25 | 35.11 | 34.41 | 117 | 1.14 | 0.29 | 6.4 |
| 4/29/2015 16:54:26 | 35.43 | 34.73 | 241 | 1.14 | 0.29 | 13.2 |
| 4/29/2015 16:54:27 | 35.76 | 35.06 | 356 | 1.14 | 0.29 | 19.5 |
| 4/29/2015 16:54:27 | 36.09 | 35.39 | 371 | 1.14 | 0.29 | 20.3 |
| 4/29/2015 16:54:29 | 36.42 | 35.72 | 431 | 1.14 | 0.29 | 23.6 |
| 4/29/2015 16:54:29 | 36.75 | 36.05 | 386 | 1.14 | 0.29 | 21.1 |
| 4/29/2015 16:54:31 | 37.07 | 36.37 | 304 | 1.14 | 0.29 | 16.6 |
| 4/29/2015 16:56:33 | 37.40 | 36.70 | 8 | 1.14 | 0.29 | 0.4 |
| 4/29/2015 16:56:36 | 37.73 | 37.03 | 188 | 1.14 | 0.29 | 10.3 |
| 4/29/2015 16:59:57 | 38.06 | 37.36 | 47 | 1.14 | 0.29 | 2.6 |
| 4/29/2015 17:00:32 | 38.39 | 37.69 | 60 | 1.14 | 0.29 | 3.3 |
| 4/29/2015 17:00:38 | 38.71 | 38.01 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 17:00:48 | 39.04 | 38.34 | 35 | 1.14 | 0.29 | 1.9 |
| 4/29/2015 17:00:59 | 39.37 | 38.67 | 36 | 1.14 | 0.29 | 2.0 |
| 4/29/2015 17:01:09 | 39.70 | 39.00 | 38 | 1.14 | 0.29 | 2.1 |
| 4/29/2015 17:01:15 | 39.91 | 39.21 | 35 | 1.14 | 0.29 | 1.9 |

## K6 - Summary

**Pattern Number:**
AreaK_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 16:52:40

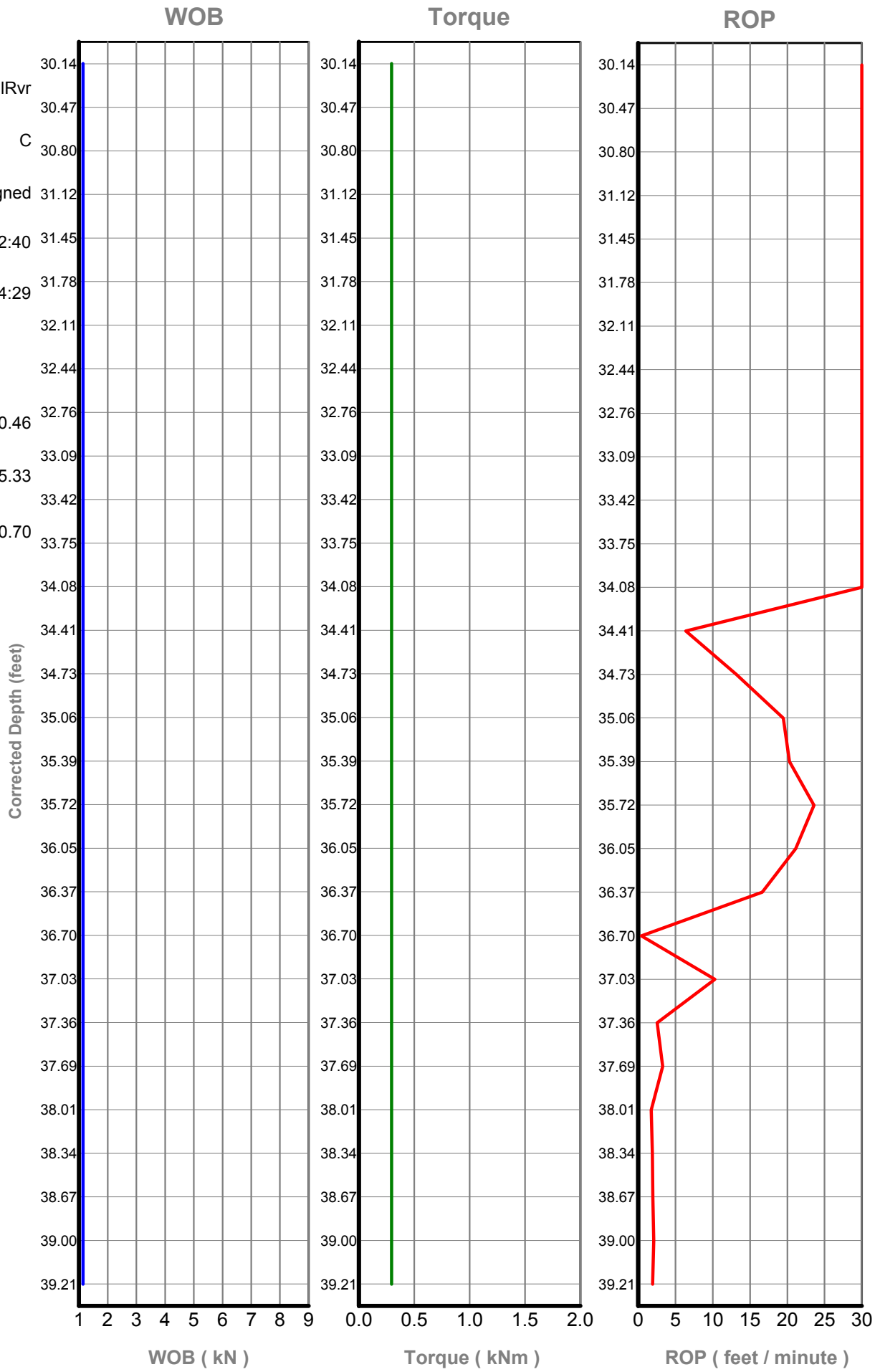
**End Date:**
4/29/2015 17:04:29

**Operator Note:**
'0.7 0.8 C Auto Complete'

**Northing:**
361,870.46

**Easting:**
244,375.33

**Tide (feet):**
0.70



## Hole: K60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:00:55 | 35.76 | 30.26 | 633 | 1.10 | 0.17 | 34.6 |
| 4/30/2015 9:00:56 | 36.09 | 30.59 | 637 | 1.11 | 0.17 | 34.9 |
| 4/30/2015 9:00:57 | 36.42 | 30.92 | 628 | 1.11 | 0.17 | 34.3 |
| 4/30/2015 9:00:58 | 36.75 | 31.25 | 638 | 1.10 | 0.17 | 34.9 |
| 4/30/2015 9:00:58 | 37.07 | 31.57 | 634 | 1.12 | 0.15 | 34.7 |
| 4/30/2015 9:00:59 | 37.40 | 31.90 | 631 | 1.11 | 0.17 | 34.5 |
| 4/30/2015 9:00:59 | 37.73 | 32.23 | 641 | 0.29 | 0.13 | 35.0 |
| 4/30/2015 9:01:12 | 38.06 | 32.56 | 29 | 1.17 | 0.16 | 1.6 |
| 4/30/2015 9:01:12 | 38.39 | 32.89 | 202 | 1.18 | 0.15 | 11.1 |
| 4/30/2015 9:01:13 | 38.71 | 33.21 | 202 | 1.18 | 0.15 | 11.1 |
| 4/30/2015 9:01:13 | 39.04 | 33.54 | 357 | 1.19 | 0.16 | 19.5 |
| 4/30/2015 9:01:13 | 39.37 | 33.87 | 357 | 1.20 | 0.16 | 19.5 |
| 4/30/2015 9:01:14 | 39.70 | 34.20 | 532 | 1.19 | 0.16 | 29.1 |
| 4/30/2015 9:01:14 | 40.03 | 34.53 | 709 | 1.20 | 0.16 | 38.8 |
| 4/30/2015 9:01:15 | 40.35 | 34.85 | 709 | 1.20 | 0.16 | 38.8 |
| 4/30/2015 9:01:15 | 40.68 | 35.18 | 854 | 1.17 | 0.16 | 46.7 |
| 4/30/2015 9:01:15 | 41.01 | 35.51 | 832 | 1.20 | 0.17 | 45.5 |
| 4/30/2015 9:01:16 | 41.34 | 35.84 | 832 | 1.22 | 0.16 | 45.5 |
| 4/30/2015 9:01:17 | 41.67 | 36.17 | 861 | 1.21 | 0.17 | 47.1 |
| 4/30/2015 9:01:17 | 41.99 | 36.49 | 861 | 1.21 | 0.17 | 47.1 |
| 4/30/2015 9:01:17 | 42.32 | 36.82 | 845 | 1.19 | 0.16 | 46.2 |
| 4/30/2015 9:01:18 | 42.65 | 37.15 | 845 | 1.19 | 0.16 | 46.2 |
| 4/30/2015 9:01:18 | 42.98 | 37.48 | 845 | 1.21 | 0.16 | 46.2 |
| 4/30/2015 9:01:19 | 43.31 | 37.81 | 835 | 1.19 | 0.16 | 45.7 |
| 4/30/2015 9:01:19 | 43.64 | 38.14 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 9:01:20 | 43.96 | 38.46 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 9:01:20 | 44.29 | 38.79 | 827 | 1.19 | 0.16 | 45.2 |
| 4/30/2015 9:01:20 | 44.62 | 39.12 | 847 | 1.20 | 0.08 | 46.3 |
| 4/30/2015 9:01:21 | 44.95 | 39.45 | 847 | 1.18 | 0.16 | 46.3 |
| 4/30/2015 9:01:21 | 45.28 | 39.78 | 847 | 1.20 | 0.16 | 46.3 |
| 4/30/2015 9:01:22 | 45.60 | 40.10 | 847 | 1.20 | 0.16 | 46.3 |
| 4/30/2015 9:01:22 | 45.93 | 40.43 | 845 | 1.21 | 0.17 | 46.2 |
| 4/30/2015 9:01:22 | 46.26 | 40.76 | 847 | 1.20 | 0.16 | 46.3 |
| 4/30/2015 9:01:23 | 46.59 | 41.09 | 842 | 1.19 | 0.17 | 46.0 |
| 4/30/2015 9:01:23 | 46.92 | 41.42 | 842 | 1.19 | 0.17 | 46.0 |
| 4/30/2015 9:01:24 | 47.24 | 41.74 | 842 | 1.19 | 0.17 | 46.0 |
| 4/30/2015 9:01:24 | 47.57 | 42.07 | 836 | 1.20 | 0.16 | 45.7 |
| 4/30/2015 9:01:24 | 47.90 | 42.40 | 830 | 1.19 | 0.16 | 45.4 |
| 4/30/2015 9:01:25 | 48.23 | 42.73 | 833 | 1.20 | 0.16 | 45.6 |
| 4/30/2015 9:01:25 | 48.56 | 43.06 | 833 | 1.17 | 0.16 | 45.6 |
| 4/30/2015 9:01:26 | 48.88 | 43.38 | 833 | 1.17 | 0.16 | 45.6 |
| 4/30/2015 9:01:26 | 49.21 | 43.71 | 838 | 1.19 | 0.16 | 45.8 |
| 4/30/2015 9:01:26 | 49.54 | 44.04 | 847 | 1.19 | 0.16 | 46.3 |
| 4/30/2015 9:01:27 | 49.87 | 44.37 | 853 | 1.20 | 0.16 | 46.6 |
| 4/30/2015 9:01:28 | 50.20 | 44.70 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 9:01:28 | 50.53 | 45.03 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 9:01:28 | 50.85 | 45.35 | 858 | 1.18 | 0.16 | 46.9 |
| 4/30/2015 9:01:29 | 51.18 | 45.68 | 843 | 1.19 | 0.16 | 46.1 |
| 4/30/2015 9:01:29 | 51.51 | 46.01 | 857 | 1.19 | 0.17 | 46.9 |
| 4/30/2015 9:01:30 | 51.84 | 46.34 | 844 | 1.20 | 0.16 | 46.2 |
| 4/30/2015 9:01:30 | 52.17 | 46.67 | 841 | 1.19 | 0.16 | 46.0 |
| 4/30/2015 9:01:31 | 52.49 | 46.99 | 841 | 1.19 | 0.16 | 46.0 |
| 4/30/2015 9:01:31 | 52.82 | 47.32 | 841 | 1.21 | 0.17 | 46.0 |
| 4/30/2015 9:01:31 | 53.15 | 47.65 | 844 | 1.19 | 0.16 | 46.2 |
| 4/30/2015 9:01:32 | 53.48 | 47.98 | 841 | 1.19 | 0.16 | 46.0 |
| 4/30/2015 9:01:32 | 53.81 | 48.31 | 838 | 1.19 | 0.16 | 45.8 |
| 4/30/2015 9:01:33 | 54.13 | 48.63 | 838 | 1.19 | 0.16 | 45.8 |
| 4/30/2015 9:01:43 | 54.46 | 48.96 | 12 | 1.21 | 0.84 | 0.6 |
| 4/30/2015 9:01:45 | 54.79 | 49.29 | 105 | 0.66 | 1.04 | 5.7 |
| 4/30/2015 9:01:49 | 55.12 | 49.62 | 85 | 1.23 | 1.12 | 4.7 |
| 4/30/2015 9:01:56 | 55.45 | 49.95 | 43 | 1.26 | 1.19 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:02:01 | 55.77 | 50.27 | 83 | 1.15 | 1.51 | 4.5 |
| 4/30/2015 | 9:02:04 | 56.10 | 50.60 | 131 | 1.13 | 1.33 | 7.2 |
| 4/30/2015 | 9:02:08 | 56.43 | 50.93 | 71 | 1.23 | 1.24 | 3.9 |
| 4/30/2015 | 9:02:14 | 56.76 | 51.26 | 64 | 1.23 | 1.19 | 3.5 |
| 4/30/2015 | 9:02:18 | 57.09 | 51.59 | 84 | 1.15 | 1.35 | 4.6 |
| 4/30/2015 | 9:02:23 | 57.41 | 51.91 | 84 | 1.11 | 1.12 | 4.6 |
| 4/30/2015 | 9:02:30 | 57.74 | 52.24 | 40 | 1.17 | 0.96 | 2.2 |
| 4/30/2015 | 9:02:41 | 58.07 | 52.57 | 29 | 1.18 | 0.93 | 1.6 |
| 4/30/2015 | 9:02:52 | 58.40 | 52.90 | 38 | 1.14 | 0.94 | 2.1 |
| 4/30/2015 | 9:02:57 | 58.60 | 53.10 | 38 | 1.25 | 1.05 | 2.1 |

## K60 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:59:21

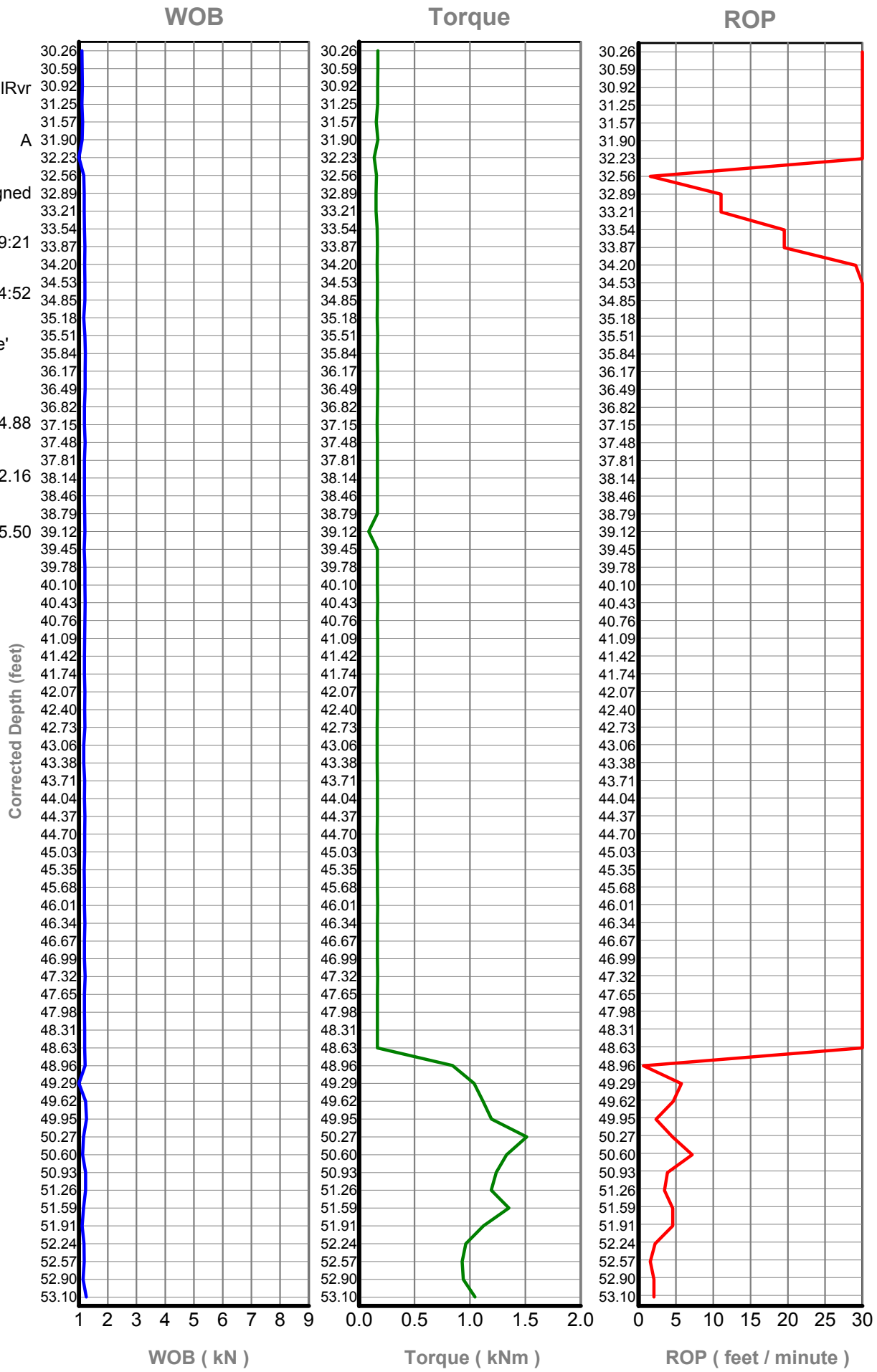
**End Date:**
4/30/2015 9:04:52

**Operator Note:**
'5.5 5.3 a Auto Complete'

**Northing:**
361,474.88

**Easting:**
244,242.16

**Tide (feet):**
5.50



## Hole: K61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:14:23 | 35.76 | 30.16 | 900 | 1.16 | 0.16 | 49.2 |
| 4/30/2015 9:14:23 | 36.09 | 30.49 | 897 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 9:14:23 | 36.42 | 30.82 | 897 | 1.14 | 0.16 | 49.0 |
| 4/30/2015 9:14:24 | 36.75 | 31.15 | 892 | 1.13 | 0.16 | 48.8 |
| 4/30/2015 9:14:24 | 37.07 | 31.47 | 902 | 1.14 | 0.15 | 49.4 |
| 4/30/2015 9:14:25 | 37.40 | 31.80 | 902 | 1.14 | 0.15 | 49.4 |
| 4/30/2015 9:14:25 | 37.73 | 32.13 | 905 | 1.15 | 0.16 | 49.5 |
| 4/30/2015 9:14:25 | 38.06 | 32.46 | 899 | 1.13 | 0.15 | 49.2 |
| 4/30/2015 9:14:26 | 38.39 | 32.79 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:14:26 | 38.71 | 33.11 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:14:26 | 39.04 | 33.44 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:14:27 | 39.37 | 33.77 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 9:14:27 | 39.70 | 34.10 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:14:28 | 40.03 | 34.43 | 899 | 1.14 | 0.15 | 49.2 |
| 4/30/2015 9:14:28 | 40.35 | 34.75 | 893 | 1.14 | 0.15 | 48.9 |
| 4/30/2015 9:14:29 | 40.68 | 35.08 | 902 | 1.15 | 0.15 | 49.3 |
| 4/30/2015 9:14:29 | 41.01 | 35.41 | 896 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 9:14:30 | 41.34 | 35.74 | 896 | 1.15 | 0.16 | 49.0 |
| 4/30/2015 9:14:30 | 41.67 | 36.07 | 896 | 1.14 | 0.15 | 49.0 |
| 4/30/2015 9:14:30 | 41.99 | 36.39 | 891 | 1.15 | 0.15 | 48.7 |
| 4/30/2015 9:14:31 | 42.32 | 36.72 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:14:31 | 42.65 | 37.05 | 905 | 1.15 | 0.15 | 49.5 |
| 4/30/2015 9:14:31 | 42.98 | 37.38 | 894 | 1.16 | 0.15 | 48.9 |
| 4/30/2015 9:14:32 | 43.31 | 37.71 | 902 | 1.16 | 0.15 | 49.3 |
| 4/30/2015 9:14:32 | 43.64 | 38.04 | 889 | 1.16 | 0.15 | 48.6 |
| 4/30/2015 9:14:33 | 43.96 | 38.36 | 897 | 1.15 | 0.15 | 49.1 |
| 4/30/2015 9:14:33 | 44.29 | 38.69 | 897 | 1.15 | 0.15 | 49.1 |
| 4/30/2015 9:14:33 | 44.62 | 39.02 | 891 | 1.14 | 0.15 | 48.7 |
| 4/30/2015 9:14:34 | 44.95 | 39.35 | 891 | 1.14 | 0.15 | 48.7 |
| 4/30/2015 9:14:34 | 45.28 | 39.68 | 886 | 1.16 | 0.15 | 48.4 |
| 4/30/2015 9:14:35 | 45.60 | 40.00 | 886 | 1.16 | 0.15 | 48.4 |
| 4/30/2015 9:14:35 | 45.93 | 40.33 | 899 | 1.15 | 0.15 | 49.2 |
| 4/30/2015 9:14:35 | 46.26 | 40.66 | 888 | 1.16 | 0.15 | 48.6 |
| 4/30/2015 9:14:36 | 46.59 | 40.99 | 888 | 1.14 | 0.15 | 48.6 |
| 4/30/2015 9:14:36 | 46.92 | 41.32 | 881 | 1.15 | 0.16 | 48.2 |
| 4/30/2015 9:14:37 | 47.24 | 41.64 | 881 | 1.15 | 0.16 | 48.2 |
| 4/30/2015 9:14:37 | 47.57 | 41.97 | 889 | 1.13 | 0.15 | 48.6 |
| 4/30/2015 9:14:37 | 47.90 | 42.30 | 886 | 1.15 | 0.15 | 48.5 |
| 4/30/2015 9:14:38 | 48.23 | 42.63 | 891 | 1.16 | 0.15 | 48.7 |
| 4/30/2015 9:14:39 | 48.56 | 42.96 | 891 | 1.16 | 0.15 | 48.7 |
| 4/30/2015 9:14:39 | 48.88 | 43.28 | 875 | 1.15 | 0.15 | 47.9 |
| 4/30/2015 9:14:39 | 49.21 | 43.61 | 887 | 1.16 | 0.15 | 48.5 |
| 4/30/2015 9:14:40 | 49.54 | 43.94 | 867 | 1.20 | 0.15 | 47.4 |
| 4/30/2015 9:14:40 | 49.87 | 44.27 | 832 | 1.20 | 0.15 | 45.5 |
| 4/30/2015 9:14:41 | 50.20 | 44.60 | 780 | 1.20 | 0.15 | 42.6 |
| 4/30/2015 9:14:41 | 50.53 | 44.93 | 743 | 1.19 | 0.15 | 40.6 |
| 4/30/2015 9:14:42 | 50.85 | 45.25 | 686 | 1.20 | 0.15 | 37.5 |
| 4/30/2015 9:14:42 | 51.18 | 45.58 | 651 | 1.19 | 0.15 | 35.6 |
| 4/30/2015 9:14:43 | 51.51 | 45.91 | 627 | 1.19 | 0.15 | 34.3 |
| 4/30/2015 9:14:43 | 51.84 | 46.24 | 634 | 1.19 | 0.15 | 34.7 |
| 4/30/2015 9:14:44 | 52.17 | 46.57 | 623 | 1.20 | 0.16 | 34.0 |
| 4/30/2015 9:14:57 | 52.49 | 46.89 | 0 | 1.46 | 0.69 | 0.0 |
| 4/30/2015 9:14:59 | 52.82 | 47.22 | 126 | 1.17 | 1.03 | 6.9 |
| 4/30/2015 9:15:00 | 53.15 | 47.55 | 230 | 1.17 | 1.36 | 12.6 |
| 4/30/2015 9:15:02 | 53.48 | 47.88 | 246 | 1.17 | 1.03 | 13.5 |
| 4/30/2015 9:15:03 | 53.81 | 48.21 | 297 | 1.18 | 1.19 | 16.2 |
| 4/30/2015 9:15:08 | 54.13 | 48.53 | 3 | 2.20 | 1.63 | 0.2 |
| 4/30/2015 9:15:13 | 54.46 | 48.86 | 47 | 1.12 | 0.94 | 2.6 |
| 4/30/2015 9:15:27 | 54.79 | 49.19 | 25 | 1.09 | 0.86 | 1.4 |
| 4/30/2015 9:15:40 | 55.12 | 49.52 | 26 | 1.08 | 0.81 | 1.4 |
| 4/30/2015 9:15:54 | 55.45 | 49.85 | 26 | 1.09 | 0.80 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:16:01 | 55.61 | 50.01 | 26 | 0.86 | 1.00 | 1.4 |

## K61 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:12:43

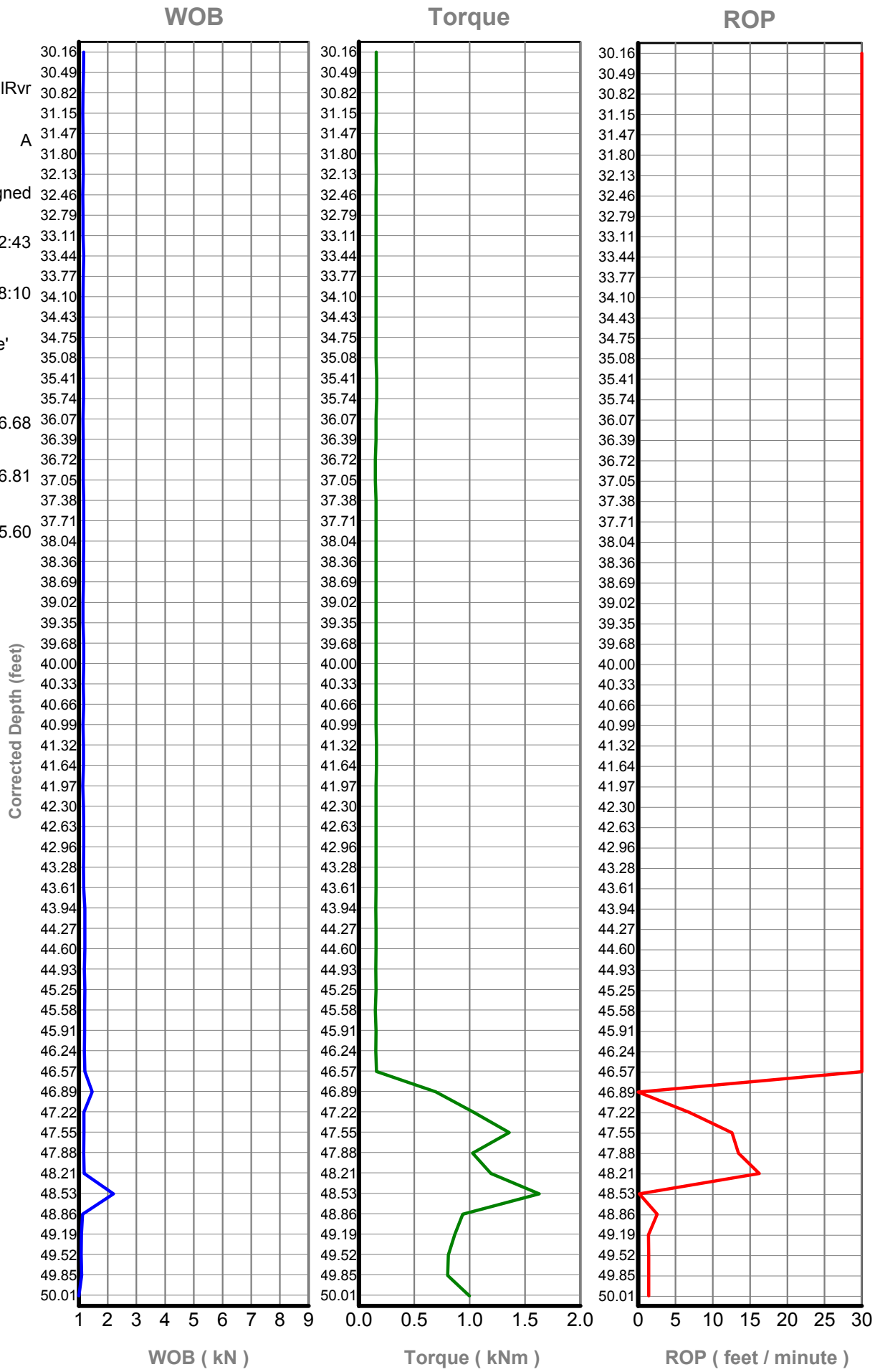
**End Date:**
4/30/2015 9:18:10

**Operator Note:**
'5.6 5.5 a Auto Complete'

**Northing:**
361,526.68

**Easting:**
244,306.81

**Tide (feet):**
5.60



## Hole: K62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:09:15 | 35.11 | 30.11 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:09:16 | 35.43 | 30.43 | 917 | 1.11 | 0.14 | 50.1 |
| 4/30/2015 13:09:16 | 35.76 | 30.76 | 922 | 1.11 | 0.14 | 50.4 |
| 4/30/2015 13:09:16 | 36.09 | 31.09 | 919 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 13:09:17 | 36.42 | 31.42 | 912 | 1.11 | 0.14 | 49.9 |
| 4/30/2015 13:09:17 | 36.75 | 31.75 | 912 | 1.11 | 0.14 | 49.9 |
| 4/30/2015 13:09:17 | 37.07 | 32.07 | 923 | 1.10 | 0.14 | 50.5 |
| 4/30/2015 13:09:18 | 37.40 | 32.40 | 929 | 1.10 | 0.14 | 50.8 |
| 4/30/2015 13:09:18 | 37.73 | 32.73 | 921 | 1.09 | 0.14 | 50.3 |
| 4/30/2015 13:09:19 | 38.06 | 33.06 | 921 | 1.09 | 0.14 | 50.3 |
| 4/30/2015 13:09:19 | 38.39 | 33.39 | 913 | 1.11 | 0.14 | 49.9 |
| 4/30/2015 13:09:19 | 38.71 | 33.71 | 938 | 1.09 | 0.14 | 51.3 |
| 4/30/2015 13:09:20 | 39.04 | 34.04 | 923 | 1.11 | 0.14 | 50.5 |
| 4/30/2015 13:09:20 | 39.37 | 34.37 | 923 | 1.11 | 0.14 | 50.5 |
| 4/30/2015 13:09:20 | 39.70 | 34.70 | 923 | 1.09 | 0.14 | 50.5 |
| 4/30/2015 13:09:21 | 40.03 | 35.03 | 918 | 1.09 | 0.14 | 50.2 |
| 4/30/2015 13:09:21 | 40.35 | 35.35 | 934 | 1.09 | 0.14 | 51.1 |
| 4/30/2015 13:09:22 | 40.68 | 35.68 | 934 | 1.09 | 0.14 | 51.1 |
| 4/30/2015 13:09:22 | 41.01 | 36.01 | 903 | 1.09 | 0.14 | 49.4 |
| 4/30/2015 13:09:22 | 41.34 | 36.34 | 903 | 1.10 | 0.14 | 49.4 |
| 4/30/2015 13:09:23 | 41.67 | 36.67 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 13:09:24 | 41.99 | 36.99 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 13:09:24 | 42.32 | 37.32 | 914 | 1.11 | 0.14 | 50.0 |
| 4/30/2015 13:09:24 | 42.65 | 37.65 | 922 | 1.09 | 0.14 | 50.4 |
| 4/30/2015 13:09:25 | 42.98 | 37.98 | 888 | 1.11 | 0.14 | 48.6 |
| 4/30/2015 13:09:25 | 43.31 | 38.31 | 888 | 1.11 | 0.14 | 48.6 |
| 4/30/2015 13:09:25 | 43.64 | 38.64 | 888 | 1.10 | 0.14 | 48.6 |
| 4/30/2015 13:09:26 | 43.96 | 38.96 | 920 | 1.11 | 0.14 | 50.3 |
| 4/30/2015 13:09:26 | 44.29 | 39.29 | 912 | 1.09 | 0.14 | 49.9 |
| 4/30/2015 13:09:27 | 44.62 | 39.62 | 912 | 1.09 | 0.14 | 49.9 |
| 4/30/2015 13:09:27 | 44.95 | 39.95 | 898 | 1.10 | 0.14 | 49.1 |
| 4/30/2015 13:09:27 | 45.28 | 40.28 | 901 | 1.09 | 0.14 | 49.3 |
| 4/30/2015 13:09:28 | 45.60 | 40.60 | 922 | 1.11 | 0.14 | 50.4 |
| 4/30/2015 13:09:28 | 45.93 | 40.93 | 922 | 1.11 | 0.14 | 50.4 |
| 4/30/2015 13:09:28 | 46.26 | 41.26 | 908 | 1.10 | 0.14 | 49.6 |
| 4/30/2015 13:09:29 | 46.59 | 41.59 | 908 | 1.10 | 0.14 | 49.6 |
| 4/30/2015 13:09:29 | 46.92 | 41.92 | 908 | 1.11 | 0.14 | 49.6 |
| 4/30/2015 13:09:30 | 47.24 | 42.24 | 908 | 1.11 | 0.14 | 49.6 |
| 4/30/2015 13:09:30 | 47.57 | 42.57 | 911 | 1.09 | 0.14 | 49.8 |
| 4/30/2015 13:09:30 | 47.90 | 42.90 | 905 | 1.11 | 0.14 | 49.5 |
| 4/30/2015 13:09:31 | 48.23 | 43.23 | 905 | 1.11 | 0.14 | 49.5 |
| 4/30/2015 13:09:31 | 48.56 | 43.56 | 905 | 1.11 | 0.14 | 49.5 |
| 4/30/2015 13:09:31 | 48.88 | 43.88 | 905 | 1.09 | 0.14 | 49.5 |
| 4/30/2015 13:09:32 | 49.21 | 44.21 | 911 | 1.09 | 0.14 | 49.8 |
| 4/30/2015 13:09:32 | 49.54 | 44.54 | 908 | 1.11 | 0.14 | 49.6 |
| 4/30/2015 13:09:33 | 49.87 | 44.87 | 908 | 1.11 | 0.14 | 49.6 |
| 4/30/2015 13:09:33 | 50.20 | 45.20 | 908 | 1.09 | 0.14 | 49.6 |
| 4/30/2015 13:09:33 | 50.53 | 45.53 | 902 | 1.11 | 0.14 | 49.3 |
| 4/30/2015 13:09:34 | 50.85 | 45.85 | 911 | 1.11 | 0.14 | 49.8 |
| 4/30/2015 13:09:35 | 51.18 | 46.18 | 900 | 1.11 | 0.14 | 49.2 |
| 4/30/2015 13:09:35 | 51.51 | 46.51 | 900 | 1.11 | 0.14 | 49.2 |
| 4/30/2015 13:09:35 | 51.84 | 46.84 | 900 | 1.20 | 0.14 | 49.2 |
| 4/30/2015 13:10:13 | 52.17 | 47.17 | 0 | 1.07 | 0.91 | 0.0 |
| 4/30/2015 13:10:18 | 52.49 | 47.49 | 27 | 0.47 | 1.26 | 1.5 |
| 4/30/2015 13:10:19 | 52.82 | 47.82 | 171 | 0.42 | 1.07 | 9.3 |
| 4/30/2015 13:10:21 | 53.15 | 48.15 | 271 | 0.45 | 1.51 | 14.8 |
| 4/30/2015 13:10:26 | 53.48 | 48.48 | 75 | 1.02 | 1.02 | 4.1 |
| 4/30/2015 13:10:28 | 53.81 | 48.81 | 128 | 1.17 | 1.03 | 7.0 |
| 4/30/2015 13:10:36 | 54.13 | 49.13 | 40 | 1.09 | 0.99 | 2.2 |
| 4/30/2015 13:10:45 | 54.46 | 49.46 | 44 | 1.04 | 1.09 | 2.4 |
| 4/30/2015 13:10:53 | 54.79 | 49.79 | 46 | 1.18 | 1.03 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:11:00 | 55.12 | 50.12 | 55 | 1.10 | 1.05 | 3.0 |
| 4/30/2015 | 13:11:02 | 55.22 | 50.22 | 58 | 1.21 | 1.20 | 3.2 |

## K62 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:07:46

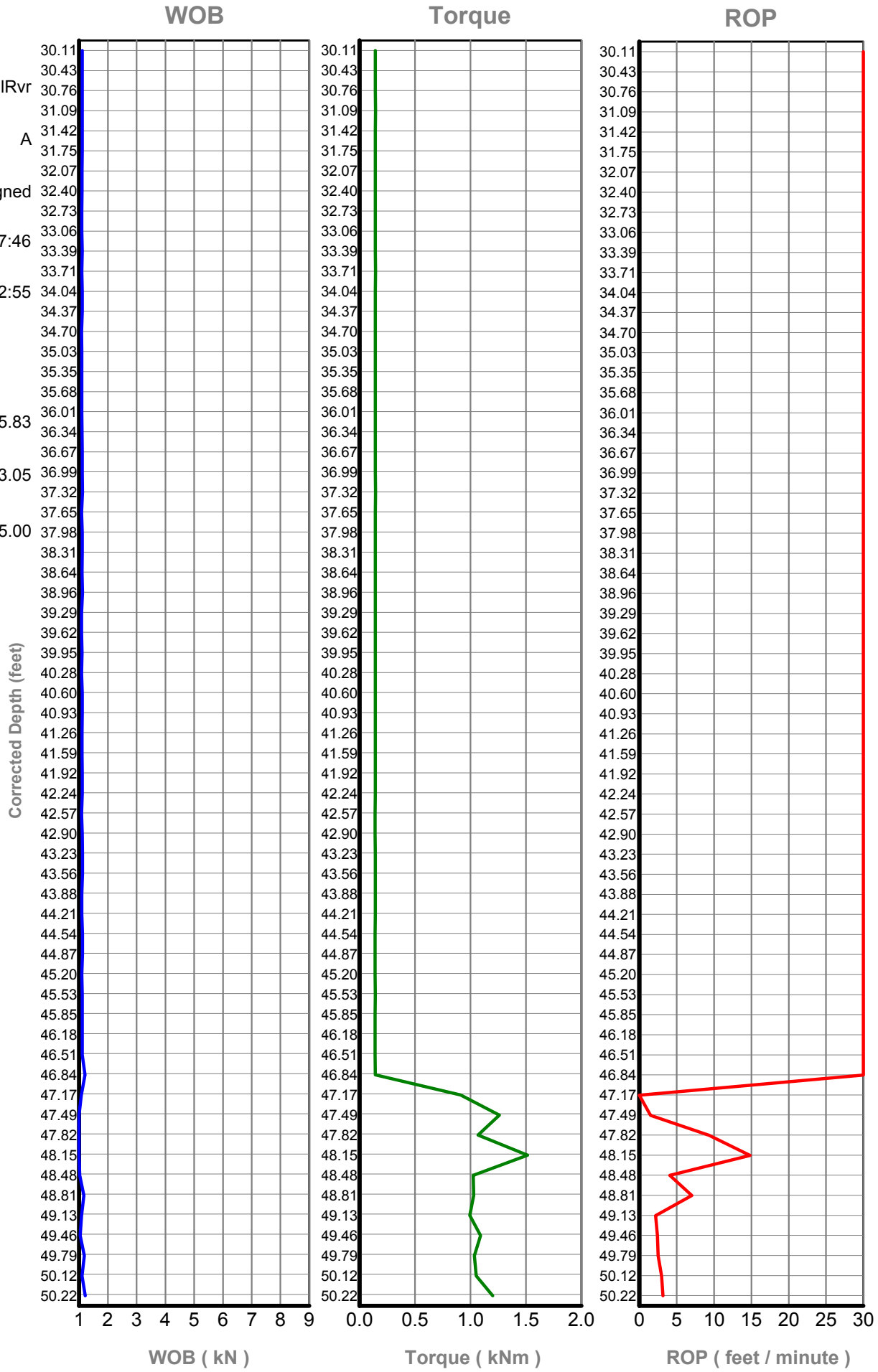
**End Date:**
4/30/2015 13:12:55

**Operator Note:**
'5 5.1 a Auto Complete'

**Northing:**
361,565.83

**Easting:**
244,343.05

**Tide (feet):**
5.00



## Hole: K63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:08:53 | 35.11 | 30.11 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 13:08:53 | 35.43 | 30.43 | 1,216 | 0.29 | 0.38 | 66.5 |
| 4/30/2015 13:08:53 | 35.76 | 30.76 | 1,207 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 13:08:54 | 36.09 | 31.09 | 1,207 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 13:08:54 | 36.42 | 31.42 | 1,206 | 0.38 | 0.38 | 65.9 |
| 4/30/2015 13:08:55 | 36.75 | 31.75 | 1,206 | 0.38 | 0.38 | 65.9 |
| 4/30/2015 13:08:55 | 37.07 | 32.07 | 1,191 | 0.30 | 0.36 | 65.1 |
| 4/30/2015 13:08:55 | 37.40 | 32.40 | 1,191 | 0.30 | 0.36 | 65.1 |
| 4/30/2015 13:08:55 | 37.73 | 32.73 | 1,191 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 13:08:56 | 38.06 | 33.06 | 1,184 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 13:08:56 | 38.39 | 33.39 | 1,184 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 13:08:56 | 38.71 | 33.71 | 1,191 | 0.32 | 0.37 | 65.1 |
| 4/30/2015 13:08:57 | 39.04 | 34.04 | 1,191 | 0.32 | 0.37 | 65.1 |
| 4/30/2015 13:08:57 | 39.37 | 34.37 | 1,197 | 0.32 | 0.37 | 65.4 |
| 4/30/2015 13:08:57 | 39.70 | 34.70 | 1,197 | 0.32 | 0.37 | 65.4 |
| 4/30/2015 13:08:57 | 40.03 | 35.03 | 1,202 | 0.31 | 0.37 | 65.8 |
| 4/30/2015 13:08:58 | 40.35 | 35.35 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 13:08:58 | 40.68 | 35.68 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 13:08:58 | 41.01 | 36.01 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 13:08:59 | 41.34 | 36.34 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 13:08:59 | 41.67 | 36.67 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 13:08:59 | 41.99 | 36.99 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 13:08:59 | 42.32 | 37.32 | 1,204 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 13:09:00 | 42.65 | 37.65 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 13:09:00 | 42.98 | 37.98 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 13:09:00 | 43.31 | 38.31 | 1,224 | 0.30 | 0.37 | 66.9 |
| 4/30/2015 13:09:01 | 43.64 | 38.64 | 1,224 | 0.30 | 0.37 | 66.9 |
| 4/30/2015 13:09:01 | 43.96 | 38.96 | 1,216 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 13:09:01 | 44.29 | 39.29 | 1,216 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 13:09:01 | 44.62 | 39.62 | 1,211 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 13:09:02 | 44.95 | 39.95 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 13:09:02 | 45.28 | 40.28 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 13:09:02 | 45.60 | 40.60 | 1,217 | 0.30 | 0.37 | 66.5 |
| 4/30/2015 13:09:03 | 45.93 | 40.93 | 1,217 | 0.30 | 0.37 | 66.5 |
| 4/30/2015 13:09:03 | 46.26 | 41.26 | 1,217 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 13:09:04 | 46.59 | 41.59 | 1,217 | 0.29 | 0.37 | 66.5 |
| 4/30/2015 13:09:03 | 46.92 | 41.92 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 13:09:04 | 47.24 | 42.24 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 13:09:04 | 47.57 | 42.57 | 1,184 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 13:09:05 | 47.90 | 42.90 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 13:09:05 | 48.23 | 43.23 | 1,203 | 0.29 | 0.38 | 65.8 |
| 4/30/2015 13:09:05 | 48.56 | 43.56 | 1,206 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 13:09:06 | 48.88 | 43.88 | 1,206 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 13:09:06 | 49.21 | 44.21 | 1,208 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 13:09:06 | 49.54 | 44.54 | 1,208 | 0.29 | 0.37 | 66.0 |
| 4/30/2015 13:09:06 | 49.87 | 44.87 | 1,200 | 0.29 | 0.38 | 65.6 |
| 4/30/2015 13:09:07 | 50.20 | 45.20 | 1,239 | 0.29 | 0.37 | 67.8 |
| 4/30/2015 13:09:07 | 50.53 | 45.53 | 1,239 | 0.29 | 0.37 | 67.8 |
| 4/30/2015 13:09:07 | 50.85 | 45.85 | 1,217 | 0.30 | 0.37 | 66.5 |
| 4/30/2015 13:09:08 | 51.18 | 46.18 | 1,217 | 0.30 | 0.37 | 66.5 |
| 4/30/2015 13:09:08 | 51.51 | 46.51 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 13:09:08 | 51.84 | 46.84 | 1,214 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 13:09:08 | 52.17 | 47.17 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 13:09:09 | 52.49 | 47.49 | 1,209 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 13:09:13 | 52.82 | 47.82 | 0 | 1.93 | 0.39 | 0.0 |
| 4/30/2015 13:09:13 | 53.15 | 48.15 | 121 | 4.47 | 0.43 | 6.6 |
| 4/30/2015 13:09:17 | 53.48 | 48.48 | 46 | 4.12 | 0.43 | 2.5 |
| 4/30/2015 13:09:20 | 53.81 | 48.81 | 47 | 5.84 | 0.44 | 2.6 |
| 4/30/2015 13:09:26 | 54.13 | 49.13 | 0 | 3.86 | 0.43 | 0.0 |
| 4/30/2015 13:09:27 | 54.46 | 49.46 | 104 | 5.24 | 0.44 | 5.7 |
| 4/30/2015 13:09:28 | 54.79 | 49.79 | 220 | 3.93 | 0.43 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:09:44 | 55.12 | 50.12 | 122 | 4.08 | 0.45 | 6.7 |
| 4/30/2015 | 13:09:47 | 55.45 | 50.45 | 232 | 3.48 | 0.44 | 12.7 |
| 4/30/2015 | 13:09:47 | 55.77 | 50.77 | 229 | 2.92 | 0.44 | 12.5 |
| 4/30/2015 | 13:09:49 | 56.10 | 51.10 | 255 | 3.54 | 0.46 | 13.9 |
| 4/30/2015 | 13:09:50 | 56.43 | 51.43 | 238 | 4.22 | 0.46 | 13.0 |
| 4/30/2015 | 13:09:53 | 56.76 | 51.76 | 165 | 4.16 | 0.46 | 9.0 |
| 4/30/2015 | 13:09:54 | 57.09 | 52.09 | 187 | 4.25 | 0.46 | 10.2 |
| 4/30/2015 | 13:09:56 | 57.41 | 52.41 | 214 | 4.12 | 0.46 | 11.7 |
| 4/30/2015 | 13:09:58 | 57.74 | 52.74 | 217 | 3.56 | 0.46 | 11.9 |
| 4/30/2015 | 13:10:00 | 58.07 | 53.07 | 209 | 3.69 | 0.46 | 11.4 |
| 4/30/2015 | 13:10:01 | 58.40 | 53.40 | 214 | 3.01 | 0.45 | 11.7 |
| 4/30/2015 | 13:10:05 | 58.73 | 53.73 | 93 | 2.95 | 0.46 | 5.1 |
| 4/30/2015 | 13:10:12 | 59.06 | 54.06 | 49 | 3.01 | 0.46 | 2.7 |
| 4/30/2015 | 13:10:18 | 59.38 | 54.38 | 53 | 3.16 | 0.46 | 2.9 |
| 4/30/2015 | 13:10:40 | 59.71 | 54.71 | 25 | 2.65 | 0.47 | 1.3 |
| 4/30/2015 | 13:10:50 | 59.99 | 54.99 | 32 | 3.24 | 0.47 | 1.8 |

## K63 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:07:13

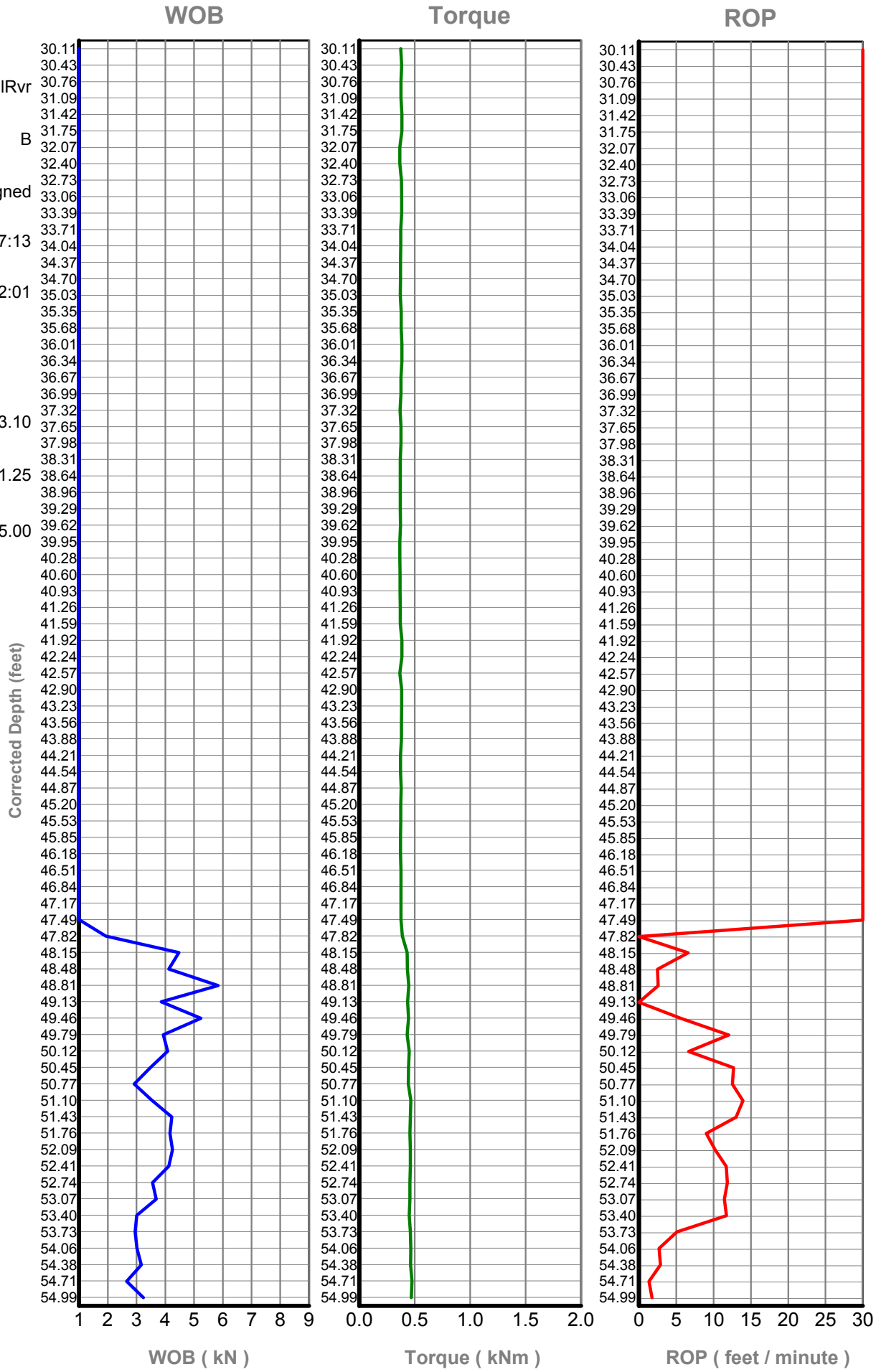
**End Date:**
4/30/2015 13:12:01

**Operator Note:**
'5 5.0 b Auto Complete'

**Northing:**
361,613.10

**Easting:**
244,401.25

**Tide (feet):**
5.00



## Hole: K64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 13:08:31 | 35.11 | 30.11 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 13:08:31 | 35.43 | 30.43 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:32 | 35.76 | 30.76 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:32 | 36.09 | 31.09 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:32 | 36.42 | 31.42 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:33 | 36.75 | 31.75 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 13:08:33 | 37.07 | 32.07 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 13:08:33 | 37.40 | 32.40 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:34 | 37.73 | 32.73 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 13:08:34 | 38.06 | 33.06 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:34 | 38.39 | 33.39 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:35 | 38.71 | 33.71 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:35 | 39.04 | 34.04 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:35 | 39.37 | 34.37 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 13:08:36 | 39.70 | 34.70 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 13:08:36 | 40.03 | 35.03 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:36 | 40.35 | 35.35 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:36 | 40.68 | 35.68 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 13:08:37 | 41.01 | 36.01 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 13:08:37 | 41.34 | 36.34 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 13:08:37 | 41.67 | 36.67 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:38 | 41.99 | 36.99 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:38 | 42.32 | 37.32 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:38 | 42.65 | 37.65 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 13:08:39 | 42.98 | 37.98 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 13:08:39 | 43.31 | 38.31 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 13:08:39 | 43.64 | 38.64 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:40 | 43.96 | 38.96 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:40 | 44.29 | 39.29 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 13:08:40 | 44.62 | 39.62 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 13:08:41 | 44.95 | 39.95 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 13:08:41 | 45.28 | 40.28 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 13:08:42 | 45.60 | 40.60 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:42 | 45.93 | 40.93 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:42 | 46.26 | 41.26 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:43 | 46.59 | 41.59 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:43 | 46.92 | 41.92 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 13:08:43 | 47.24 | 42.24 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:44 | 47.57 | 42.57 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 13:08:44 | 47.90 | 42.90 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 13:08:44 | 48.23 | 43.23 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:08:45 | 48.56 | 43.56 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:08:45 | 48.88 | 43.88 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 13:08:58 | 49.21 | 44.21 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 13:09:00 | 49.54 | 44.54 | 108 | 1.14 | 0.29 | 5.9 |
| 4/30/2015 13:09:01 | 49.87 | 44.87 | 217 | 1.14 | 0.29 | 11.9 |
| 4/30/2015 13:09:01 | 50.20 | 45.20 | 233 | 1.14 | 0.29 | 12.7 |
| 4/30/2015 13:09:02 | 50.53 | 45.53 | 355 | 1.14 | 0.29 | 19.4 |
| 4/30/2015 13:09:03 | 50.85 | 45.85 | 359 | 1.14 | 0.29 | 19.7 |
| 4/30/2015 13:09:32 | 51.18 | 46.18 | 24 | 1.14 | 0.29 | 1.3 |
| 4/30/2015 13:09:34 | 51.51 | 46.51 | 167 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 13:09:35 | 51.84 | 46.84 | 241 | 1.14 | 0.29 | 13.2 |
| 4/30/2015 13:09:36 | 52.17 | 47.17 | 268 | 1.14 | 0.29 | 14.6 |
| 4/30/2015 13:09:37 | 52.49 | 47.49 | 306 | 1.14 | 0.29 | 16.7 |
| 4/30/2015 13:09:44 | 52.82 | 47.82 | 57 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 13:10:35 | 53.15 | 48.15 | 58 | 1.14 | 0.29 | 3.2 |
| 4/30/2015 13:13:25 | 53.48 | 48.48 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 13:13:41 | 53.81 | 48.81 | 34 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 13:13:53 | 54.13 | 49.13 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 13:14:04 | 54.46 | 49.46 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 13:14:15 | 54.79 | 49.79 | 38 | 1.14 | 0.29 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 13:14:16 | 54.83 | 49.83 | 35 | 1.14 | 0.29 | 1.9 |

## K64 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 13:07:26

**End Date:**
4/30/2015 13:17:25

**Operator Note:**
'5 5.1 c Auto Complete'

**Northing:**
361,660.37

**Easting:**
244,460.08

**Tide (feet):**
5.00



## Hole: K65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:47:10 | 31.50 | 30.10 | 1,178 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 15:47:11 | 31.82 | 30.42 | 1,178 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 15:47:11 | 32.15 | 30.75 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 15:47:11 | 32.48 | 31.08 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 15:47:11 | 32.81 | 31.41 | 1,178 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 15:47:12 | 33.14 | 31.74 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:47:12 | 33.46 | 32.06 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:47:12 | 33.79 | 32.39 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:47:13 | 34.12 | 32.72 | 1,171 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:47:13 | 34.45 | 33.05 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 15:47:13 | 34.78 | 33.38 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 15:47:14 | 35.11 | 33.71 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 15:47:14 | 35.43 | 34.03 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:14 | 35.76 | 34.36 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:14 | 36.09 | 34.69 | 1,179 | 1.14 | 0.29 | 64.5 |
| 4/29/2015 15:47:15 | 36.42 | 35.02 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:15 | 36.75 | 35.35 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:15 | 37.07 | 35.67 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:16 | 37.40 | 36.00 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:16 | 37.73 | 36.33 | 1,175 | 1.14 | 0.29 | 64.2 |
| 4/29/2015 15:47:16 | 38.06 | 36.66 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:17 | 38.39 | 36.99 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:17 | 38.71 | 37.31 | 1,162 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 15:47:17 | 39.04 | 37.64 | 1,162 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 15:47:17 | 39.37 | 37.97 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:18 | 39.70 | 38.30 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:18 | 40.03 | 38.63 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:18 | 40.35 | 38.95 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 15:47:19 | 40.68 | 39.28 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 15:47:19 | 41.01 | 39.61 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:20 | 41.34 | 39.94 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:47:19 | 41.67 | 40.27 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:47:20 | 41.99 | 40.59 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 15:47:21 | 42.32 | 40.92 | 1,166 | 1.14 | 0.29 | 63.8 |
| 4/29/2015 15:47:21 | 42.65 | 41.25 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 15:47:21 | 42.98 | 41.58 | 1,156 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 15:47:21 | 43.31 | 41.91 | 1,163 | 1.14 | 0.29 | 63.6 |
| 4/29/2015 15:47:22 | 43.64 | 42.24 | 1,153 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:47:22 | 43.96 | 42.56 | 1,153 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:47:22 | 44.29 | 42.89 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 15:47:23 | 44.62 | 43.22 | 1,161 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 15:47:23 | 44.95 | 43.55 | 1,158 | 1.14 | 0.29 | 63.3 |
| 4/29/2015 15:47:23 | 45.28 | 43.88 | 1,152 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 15:47:33 | 45.60 | 44.20 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 15:47:34 | 45.93 | 44.53 | 79 | 1.14 | 0.29 | 4.3 |
| 4/29/2015 15:47:34 | 46.26 | 44.86 | 218 | 1.14 | 0.29 | 11.9 |
| 4/29/2015 15:47:35 | 46.59 | 45.19 | 452 | 1.14 | 0.29 | 24.7 |
| 4/29/2015 15:47:38 | 46.92 | 45.52 | 96 | 1.14 | 0.29 | 5.3 |
| 4/29/2015 15:47:43 | 47.24 | 45.84 | 79 | 1.14 | 0.29 | 4.3 |
| 4/29/2015 15:47:49 | 47.57 | 46.17 | 55 | 1.14 | 0.29 | 3.0 |
| 4/29/2015 15:47:56 | 47.90 | 46.50 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 15:48:02 | 48.23 | 46.83 | 64 | 1.14 | 0.29 | 3.5 |
| 4/29/2015 15:48:06 | 48.56 | 47.16 | 64 | 1.14 | 0.29 | 3.5 |
| 4/29/2015 15:48:16 | 48.88 | 47.48 | 35 | 1.14 | 0.29 | 1.9 |
| 4/29/2015 15:48:24 | 49.15 | 47.75 | 35 | 1.14 | 0.29 | 1.9 |

## K65 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:46:09

**End Date:**
4/29/2015 15:49:55

**Operator Note:**
'1.4 1.6 c Auto Complete'

**Northing:**
361,660.92

**Easting:**
244,491.72

**Tide (feet):**
1.40



## Hole: K66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:35:37 | 31.82 | 30.32 | 1,170 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:35:37 | 32.15 | 30.65 | 1,183 | 1.14 | 0.29 | 64.7 |
| 4/29/2015 15:35:38 | 32.48 | 30.98 | 1,183 | 1.14 | 0.29 | 64.7 |
| 4/29/2015 15:35:38 | 32.81 | 31.31 | 1,168 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:38 | 33.14 | 31.64 | 1,168 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:39 | 33.46 | 31.96 | 1,168 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:39 | 33.79 | 32.29 | 1,175 | 1.14 | 0.29 | 64.2 |
| 4/29/2015 15:35:39 | 34.12 | 32.62 | 1,175 | 1.14 | 0.29 | 64.2 |
| 4/29/2015 15:35:39 | 34.45 | 32.95 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 15:35:40 | 34.78 | 33.28 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:40 | 35.11 | 33.61 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:40 | 35.43 | 33.93 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 15:35:41 | 35.76 | 34.26 | 1,176 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 15:35:41 | 36.09 | 34.59 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:41 | 36.42 | 34.92 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:41 | 36.75 | 35.25 | 1,169 | 1.14 | 0.29 | 63.9 |
| 4/29/2015 15:35:42 | 37.07 | 35.57 | 1,155 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 15:35:42 | 37.40 | 35.90 | 1,155 | 1.14 | 0.29 | 63.2 |
| 4/29/2015 15:35:42 | 37.73 | 36.23 | 1,170 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:35:43 | 38.06 | 36.56 | 1,170 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:35:43 | 38.39 | 36.89 | 1,170 | 1.14 | 0.29 | 64.0 |
| 4/29/2015 15:35:44 | 38.71 | 37.21 | 1,154 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:35:44 | 39.04 | 37.54 | 1,154 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:35:44 | 39.37 | 37.87 | 1,154 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:35:45 | 39.70 | 38.20 | 1,154 | 1.14 | 0.29 | 63.1 |
| 4/29/2015 15:35:45 | 40.03 | 38.53 | 1,153 | 1.14 | 0.29 | 63.0 |
| 4/29/2015 15:35:46 | 40.35 | 38.85 | 912 | 1.14 | 0.29 | 49.9 |
| 4/29/2015 15:35:46 | 40.68 | 39.18 | 820 | 1.14 | 0.29 | 44.8 |
| 4/29/2015 15:35:47 | 41.01 | 39.51 | 820 | 1.14 | 0.29 | 44.8 |
| 4/29/2015 15:35:47 | 41.34 | 39.84 | 792 | 1.14 | 0.29 | 43.3 |
| 4/29/2015 15:35:47 | 41.67 | 40.17 | 738 | 1.14 | 0.29 | 40.4 |
| 4/29/2015 15:35:48 | 41.99 | 40.49 | 699 | 1.14 | 0.29 | 38.2 |
| 4/29/2015 15:35:48 | 42.32 | 40.82 | 845 | 1.14 | 0.29 | 46.2 |
| 4/29/2015 15:35:49 | 42.65 | 41.15 | 831 | 1.14 | 0.29 | 45.4 |
| 4/29/2015 15:35:49 | 42.98 | 41.48 | 754 | 1.14 | 0.29 | 41.2 |
| 4/29/2015 15:35:50 | 43.31 | 41.81 | 683 | 1.14 | 0.29 | 37.4 |
| 4/29/2015 15:35:50 | 43.64 | 42.14 | 627 | 1.14 | 0.29 | 34.3 |
| 4/29/2015 15:35:51 | 43.96 | 42.46 | 552 | 1.14 | 0.29 | 30.2 |
| 4/29/2015 15:35:52 | 44.29 | 42.79 | 556 | 1.14 | 0.29 | 30.4 |
| 4/29/2015 15:35:52 | 44.62 | 43.12 | 559 | 1.14 | 0.29 | 30.5 |
| 4/29/2015 15:35:53 | 44.95 | 43.45 | 556 | 1.14 | 0.29 | 30.4 |
| 4/29/2015 15:35:54 | 45.28 | 43.78 | 556 | 1.14 | 0.29 | 30.4 |
| 4/29/2015 15:36:11 | 45.60 | 44.10 | 17 | 1.14 | 0.29 | 1.0 |
| 4/29/2015 15:36:14 | 45.93 | 44.43 | 179 | 1.14 | 0.29 | 9.8 |
| 4/29/2015 15:36:19 | 46.26 | 44.76 | 73 | 1.14 | 0.29 | 4.0 |
| 4/29/2015 15:36:23 | 46.59 | 45.09 | 105 | 1.14 | 0.29 | 5.7 |
| 4/29/2015 15:36:33 | 46.92 | 45.42 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 15:36:42 | 47.24 | 45.74 | 38 | 1.14 | 0.29 | 2.1 |
| 4/29/2015 15:36:50 | 47.57 | 46.07 | 52 | 1.14 | 0.29 | 2.9 |
| 4/29/2015 15:36:54 | 47.90 | 46.40 | 99 | 1.14 | 0.29 | 5.4 |
| 4/29/2015 15:36:58 | 48.02 | 46.52 | 9 | 1.14 | 0.29 | 0.5 |

## K66 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:34:33

**End Date:**
4/29/2015 15:39:30

**Operator Note:**
'1.5 1.8 C Auto Complete'

**Northing:**
361,718.67

**Easting:**
244,544.75

**Tide (feet):**
1.50



## Hole: K67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:19:07 | 31.82 | 30.02 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/29/2015 15:19:07 | 32.15 | 30.35 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/29/2015 15:19:07 | 32.48 | 30.68 | 1,140 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 15:19:08 | 32.81 | 31.01 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:08 | 33.14 | 31.34 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:08 | 33.46 | 31.66 | 1,133 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:09 | 33.79 | 31.99 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 15:19:10 | 34.12 | 32.32 | 1,139 | 1.14 | 0.29 | 62.3 |
| 4/29/2015 15:19:09 | 34.45 | 32.65 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:10 | 34.78 | 32.98 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:10 | 35.11 | 33.31 | 1,136 | 1.14 | 0.29 | 62.1 |
| 4/29/2015 15:19:11 | 35.43 | 33.63 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 15:19:11 | 35.76 | 33.96 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 15:19:11 | 36.09 | 34.29 | 1,133 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:12 | 36.42 | 34.62 | 1,133 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:12 | 36.75 | 34.95 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:12 | 37.07 | 35.27 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:13 | 37.40 | 35.60 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:13 | 37.73 | 35.93 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 15:19:13 | 38.06 | 36.26 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 15:19:13 | 38.39 | 36.59 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:14 | 38.71 | 36.91 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:14 | 39.04 | 37.24 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 15:19:14 | 39.37 | 37.57 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:15 | 39.70 | 37.90 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:15 | 40.03 | 38.23 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 15:19:15 | 40.35 | 38.55 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/29/2015 15:19:16 | 40.68 | 38.88 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/29/2015 15:19:16 | 41.01 | 39.21 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 15:19:16 | 41.34 | 39.54 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:17 | 41.67 | 39.87 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:17 | 41.99 | 40.19 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/29/2015 15:19:17 | 42.32 | 40.52 | 1,122 | 1.14 | 0.29 | 61.3 |
| 4/29/2015 15:19:17 | 42.65 | 40.85 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 15:19:18 | 42.98 | 41.18 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:18 | 43.31 | 41.51 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 15:19:18 | 43.64 | 41.84 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 15:19:19 | 43.96 | 42.16 | 1,126 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 15:19:19 | 44.29 | 42.49 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 15:19:19 | 44.62 | 42.82 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 15:19:20 | 44.95 | 43.15 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 15:19:35 | 45.28 | 43.48 | 47 | 1.14 | 0.29 | 2.5 |
| 4/29/2015 15:19:42 | 45.60 | 43.80 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 15:19:51 | 45.93 | 44.13 | 46 | 1.14 | 0.29 | 2.5 |
| 4/29/2015 15:19:58 | 46.26 | 44.46 | 52 | 1.14 | 0.29 | 2.8 |
| 4/29/2015 15:20:04 | 46.59 | 44.79 | 52 | 1.14 | 0.29 | 2.9 |
| 4/29/2015 15:20:12 | 46.92 | 45.12 | 41 | 1.14 | 0.29 | 2.2 |
| 4/29/2015 15:20:13 | 46.96 | 45.16 | 44 | 1.14 | 0.29 | 2.4 |

## K67 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:17:59

**End Date:**
4/29/2015 15:21:49

**Operator Note:**
'1.8 2.0 C Auto Complete'

**Northing:**
361,774.91

**Easting:**
244,588.21

**Tide (feet):**
1.80



## Hole: K68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:44:26 | 36.42 | 30.22 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:27 | 36.75 | 30.55 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:27 | 37.07 | 30.87 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:27 | 37.40 | 31.20 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:28 | 37.73 | 31.53 | 954 | 1.14 | 0.14 | 52.2 |
| 4/29/2015 10:44:28 | 38.06 | 31.86 | 954 | 1.14 | 0.14 | 52.2 |
| 4/29/2015 10:44:28 | 38.39 | 32.19 | 954 | 1.13 | 0.14 | 52.2 |
| 4/29/2015 10:44:29 | 38.71 | 32.51 | 949 | 1.13 | 0.14 | 51.9 |
| 4/29/2015 10:44:29 | 39.04 | 32.84 | 949 | 1.13 | 0.14 | 51.9 |
| 4/29/2015 10:44:29 | 39.37 | 33.17 | 957 | 1.14 | 0.14 | 52.4 |
| 4/29/2015 10:44:30 | 39.70 | 33.50 | 960 | 1.15 | 0.14 | 52.5 |
| 4/29/2015 10:44:30 | 40.03 | 33.83 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:31 | 40.35 | 34.15 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:31 | 40.68 | 34.48 | 948 | 1.15 | 0.14 | 51.9 |
| 4/29/2015 10:44:31 | 41.01 | 34.81 | 954 | 1.13 | 0.14 | 52.2 |
| 4/29/2015 10:44:32 | 41.34 | 35.14 | 954 | 1.13 | 0.14 | 52.2 |
| 4/29/2015 10:44:32 | 41.67 | 35.47 | 948 | 1.13 | 0.14 | 51.8 |
| 4/29/2015 10:44:32 | 41.99 | 35.79 | 945 | 1.13 | 0.14 | 51.7 |
| 4/29/2015 10:44:33 | 42.32 | 36.12 | 943 | 1.13 | 0.14 | 51.5 |
| 4/29/2015 10:44:33 | 42.65 | 36.45 | 943 | 1.13 | 0.14 | 51.5 |
| 4/29/2015 10:44:33 | 42.98 | 36.78 | 951 | 1.13 | 0.14 | 52.0 |
| 4/29/2015 10:44:34 | 43.31 | 37.11 | 945 | 1.13 | 0.14 | 51.7 |
| 4/29/2015 10:44:35 | 43.64 | 37.44 | 945 | 1.14 | 0.14 | 51.7 |
| 4/29/2015 10:44:35 | 43.96 | 37.76 | 945 | 1.14 | 0.14 | 51.7 |
| 4/29/2015 10:44:35 | 44.29 | 38.09 | 948 | 1.13 | 0.14 | 51.8 |
| 4/29/2015 10:44:36 | 44.62 | 38.42 | 948 | 1.13 | 0.14 | 51.8 |
| 4/29/2015 10:44:36 | 44.95 | 38.75 | 948 | 1.13 | 0.14 | 51.8 |
| 4/29/2015 10:44:36 | 45.28 | 39.08 | 945 | 1.15 | 0.14 | 51.7 |
| 4/29/2015 10:44:37 | 45.60 | 39.40 | 945 | 1.14 | 0.14 | 51.7 |
| 4/29/2015 10:44:37 | 45.93 | 39.73 | 945 | 1.13 | 0.14 | 51.7 |
| 4/29/2015 10:44:38 | 46.26 | 40.06 | 945 | 1.13 | 0.14 | 51.7 |
| 4/29/2015 10:44:38 | 46.59 | 40.39 | 945 | 1.13 | 0.14 | 51.7 |
| 4/29/2015 10:44:38 | 46.92 | 40.72 | 939 | 1.14 | 0.14 | 51.4 |
| 4/29/2015 10:44:39 | 47.24 | 41.04 | 939 | 1.13 | 0.14 | 51.4 |
| 4/29/2015 10:44:39 | 47.57 | 41.37 | 939 | 1.13 | 0.14 | 51.4 |
| 4/29/2015 10:44:39 | 47.90 | 41.70 | 939 | 1.13 | 0.14 | 51.4 |
| 4/29/2015 10:44:40 | 48.23 | 42.03 | 937 | 1.13 | 0.14 | 51.2 |
| 4/29/2015 10:44:40 | 48.56 | 42.36 | 937 | 1.13 | 0.14 | 51.2 |
| 4/29/2015 10:44:40 | 48.88 | 42.68 | 939 | 1.14 | 0.14 | 51.4 |
| 4/29/2015 10:44:41 | 49.21 | 43.01 | 948 | 1.13 | 0.14 | 51.8 |
| 4/29/2015 10:44:41 | 49.54 | 43.34 | 934 | 1.12 | 0.14 | 51.1 |
| 4/29/2015 10:44:42 | 49.87 | 43.67 | 934 | 1.12 | 0.14 | 51.1 |
| 4/29/2015 10:44:42 | 50.20 | 44.00 | 943 | 1.13 | 0.14 | 51.6 |
| 4/29/2015 10:44:42 | 50.53 | 44.33 | 937 | 1.28 | 0.14 | 51.2 |
| 4/29/2015 10:45:00 | 50.85 | 44.65 | 20 | 1.11 | 1.29 | 1.1 |
| 4/29/2015 10:45:05 | 51.18 | 44.98 | 32 | 1.06 | 1.07 | 1.8 |
| 4/29/2015 10:45:08 | 51.51 | 45.31 | 160 | 1.14 | 0.96 | 8.7 |
| 4/29/2015 10:45:17 | 51.84 | 45.64 | 35 | 1.08 | 0.89 | 1.9 |
| 4/29/2015 10:45:28 | 52.17 | 45.97 | 32 | 1.09 | 0.83 | 1.8 |
| 4/29/2015 10:45:38 | 52.49 | 46.29 | 41 | 1.11 | 0.97 | 2.2 |
| 4/29/2015 10:45:45 | 52.82 | 46.62 | 40 | 1.01 | 0.92 | 2.2 |
| 4/29/2015 10:45:54 | 53.09 | 46.89 | 37 | 1.11 | 0.97 | 2.0 |

## K68 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
4/29/2015 10:41:02

**End Date:**
4/29/2015 10:47:51

**Operator Note:**
'6.2 6.3 a Auto Complete'

**Northing:**
362,019.90

**Easting:**
244,903.50

**Tide (feet):**
6.20



## Hole: k69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 11:00:20 | 30.51 | 30.31 | 969 | 1.09 | 0.13 | 53.0 |
| 4/29/2015 11:00:21 | 30.84 | 30.64 | 977 | 1.09 | 0.13 | 53.4 |
| 4/29/2015 11:00:21 | 31.17 | 30.97 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:00:22 | 31.50 | 31.30 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:00:22 | 31.82 | 31.62 | 951 | 1.07 | 0.13 | 52.0 |
| 4/29/2015 11:00:23 | 32.15 | 31.95 | 960 | 1.08 | 0.13 | 52.5 |
| 4/29/2015 11:00:23 | 32.48 | 32.28 | 960 | 1.08 | 0.13 | 52.5 |
| 4/29/2015 11:00:23 | 32.81 | 32.61 | 960 | 1.09 | 0.13 | 52.5 |
| 4/29/2015 11:00:24 | 33.14 | 32.94 | 953 | 1.13 | 0.13 | 52.1 |
| 4/29/2015 11:00:24 | 33.46 | 33.26 | 953 | 1.13 | 0.13 | 52.1 |
| 4/29/2015 11:00:24 | 33.79 | 33.59 | 953 | 1.07 | 0.13 | 52.1 |
| 4/29/2015 11:00:25 | 34.12 | 33.92 | 953 | 1.06 | 0.13 | 52.1 |
| 4/29/2015 11:00:25 | 34.45 | 34.25 | 961 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 11:00:26 | 34.78 | 34.58 | 961 | 1.07 | 0.13 | 52.5 |
| 4/29/2015 11:00:26 | 35.11 | 34.91 | 984 | 1.07 | 0.13 | 53.8 |
| 4/29/2015 11:00:26 | 35.43 | 35.23 | 975 | 1.06 | 0.13 | 53.3 |
| 4/29/2015 11:00:27 | 35.76 | 35.56 | 975 | 1.06 | 0.13 | 53.3 |
| 4/29/2015 11:00:27 | 36.09 | 35.89 | 966 | 1.08 | 0.13 | 52.8 |
| 4/29/2015 11:00:27 | 36.42 | 36.22 | 981 | 1.09 | 0.13 | 53.6 |
| 4/29/2015 11:00:28 | 36.75 | 36.55 | 970 | 1.08 | 0.13 | 53.0 |
| 4/29/2015 11:00:28 | 37.07 | 36.87 | 970 | 1.08 | 0.13 | 53.0 |
| 4/29/2015 11:00:28 | 37.40 | 37.20 | 973 | 1.08 | 0.13 | 53.2 |
| 4/29/2015 11:00:29 | 37.73 | 37.53 | 952 | 1.08 | 0.14 | 52.1 |
| 4/29/2015 11:00:29 | 38.06 | 37.86 | 952 | 1.08 | 0.14 | 52.1 |
| 4/29/2015 11:00:29 | 38.39 | 38.19 | 978 | 1.07 | 0.13 | 53.5 |
| 4/29/2015 11:00:30 | 38.71 | 38.51 | 978 | 1.06 | 0.13 | 53.5 |
| 4/29/2015 11:00:30 | 39.04 | 38.84 | 962 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 11:00:31 | 39.37 | 39.17 | 962 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 11:00:31 | 39.70 | 39.50 | 962 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 11:00:32 | 40.03 | 39.83 | 940 | 1.07 | 0.13 | 51.4 |
| 4/29/2015 11:00:32 | 40.35 | 40.15 | 940 | 1.07 | 0.13 | 51.4 |
| 4/29/2015 11:00:32 | 40.68 | 40.48 | 940 | 1.09 | 0.13 | 51.4 |
| 4/29/2015 11:00:33 | 41.01 | 40.81 | 981 | 0.89 | 0.13 | 53.6 |
| 4/29/2015 11:00:33 | 41.34 | 41.14 | 981 | 0.89 | 0.13 | 53.6 |
| 4/29/2015 11:00:33 | 41.67 | 41.47 | 956 | 1.09 | 0.13 | 52.3 |
| 4/29/2015 11:00:34 | 41.99 | 41.79 | 969 | 1.09 | 0.13 | 53.0 |
| 4/29/2015 11:00:34 | 42.32 | 42.12 | 945 | 1.09 | 0.13 | 51.7 |
| 4/29/2015 11:00:35 | 42.65 | 42.45 | 945 | 1.09 | 0.13 | 51.7 |
| 4/29/2015 11:00:35 | 42.98 | 42.78 | 972 | 1.08 | 0.13 | 53.2 |
| 4/29/2015 11:00:35 | 43.31 | 43.11 | 961 | 1.08 | 0.13 | 52.5 |
| 4/29/2015 11:00:36 | 43.64 | 43.44 | 961 | 1.08 | 0.13 | 52.5 |
| 4/29/2015 11:00:36 | 43.96 | 43.76 | 977 | 1.08 | 0.13 | 53.4 |
| 4/29/2015 11:00:36 | 44.29 | 44.09 | 963 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 11:00:37 | 44.62 | 44.42 | 967 | 1.09 | 0.13 | 52.9 |
| 4/29/2015 11:00:37 | 44.95 | 44.75 | 967 | 1.09 | 0.13 | 52.9 |
| 4/29/2015 11:00:37 | 45.28 | 45.08 | 967 | 1.09 | 0.13 | 52.9 |
| 4/29/2015 11:00:38 | 45.60 | 45.40 | 963 | 1.09 | 0.13 | 52.6 |
| 4/29/2015 11:00:38 | 45.93 | 45.73 | 954 | 1.09 | 0.13 | 52.2 |
| 4/29/2015 11:00:39 | 46.26 | 46.06 | 954 | 1.09 | 0.13 | 52.2 |
| 4/29/2015 11:00:39 | 46.59 | 46.39 | 945 | 1.09 | 0.13 | 51.7 |
| 4/29/2015 11:00:39 | 46.92 | 46.72 | 942 | 1.09 | 0.13 | 51.5 |
| 4/29/2015 11:00:40 | 47.24 | 47.04 | 942 | 1.09 | 0.13 | 51.5 |
| 4/29/2015 11:00:40 | 47.57 | 47.37 | 961 | 1.08 | 0.13 | 52.6 |
| 4/29/2015 11:00:40 | 47.90 | 47.70 | 951 | 1.10 | 0.13 | 52.0 |
| 4/29/2015 11:00:41 | 48.23 | 48.03 | 951 | 1.09 | 0.13 | 52.0 |
| 4/29/2015 11:00:41 | 48.56 | 48.36 | 951 | 1.09 | 0.13 | 52.0 |
| 4/29/2015 11:00:41 | 48.88 | 48.68 | 951 | 1.10 | 0.13 | 52.0 |
| 4/29/2015 11:00:42 | 49.21 | 49.01 | 957 | 1.09 | 0.13 | 52.3 |
| 4/29/2015 11:00:43 | 49.54 | 49.34 | 957 | 1.09 | 0.13 | 52.3 |
| 4/29/2015 11:00:43 | 49.87 | 49.67 | 945 | 1.07 | 0.13 | 51.7 |
| 4/29/2015 11:00:43 | 50.20 | 50.00 | 951 | 1.10 | 0.13 | 52.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 11:00:44 | 50.53 | 50.33 | 940 | 1.08 | 0.13 | 51.4 |
| 4/29/2015 | 11:00:44 | 50.85 | 50.65 | 940 | 1.08 | 0.13 | 51.4 |
| 4/29/2015 | 11:01:03 | 51.18 | 50.98 | 56 | 0.33 | 1.02 | 3.1 |
| 4/29/2015 | 11:01:05 | 51.51 | 51.31 | 204 | 0.98 | 0.90 | 11.1 |
| 4/29/2015 | 11:01:07 | 51.84 | 51.64 | 175 | 1.05 | 1.14 | 9.6 |
| 4/29/2015 | 11:01:10 | 52.17 | 51.97 | 103 | 1.13 | 1.12 | 5.6 |
| 4/29/2015 | 11:01:14 | 52.49 | 52.29 | 102 | 1.02 | 1.12 | 5.6 |
| 4/29/2015 | 11:01:18 | 52.82 | 52.62 | 93 | 1.07 | 1.12 | 5.1 |
| 4/29/2015 | 11:01:22 | 53.15 | 52.95 | 76 | 1.15 | 1.14 | 4.1 |
| 4/29/2015 | 11:01:28 | 53.48 | 53.28 | 62 | 1.05 | 1.06 | 3.4 |
| 4/29/2015 | 11:01:33 | 53.81 | 53.61 | 66 | 1.01 | 1.18 | 3.6 |
| 4/29/2015 | 11:01:38 | 54.13 | 53.93 | 80 | 1.00 | 1.17 | 4.4 |
| 4/29/2015 | 11:01:41 | 54.46 | 54.26 | 126 | 1.01 | 0.96 | 6.9 |
| 4/29/2015 | 11:01:48 | 54.79 | 54.59 | 58 | 1.07 | 0.97 | 3.2 |
| 4/29/2015 | 11:01:55 | 55.12 | 54.92 | 53 | 0.98 | 1.03 | 2.9 |
| 4/29/2015 | 11:02:04 | 55.45 | 55.25 | 38 | 1.05 | 0.83 | 2.1 |
| 4/29/2015 | 11:02:10 | 55.68 | 55.48 | 42 | 1.04 | 0.85 | 2.3 |

## k69 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/29/2015 10:58:00

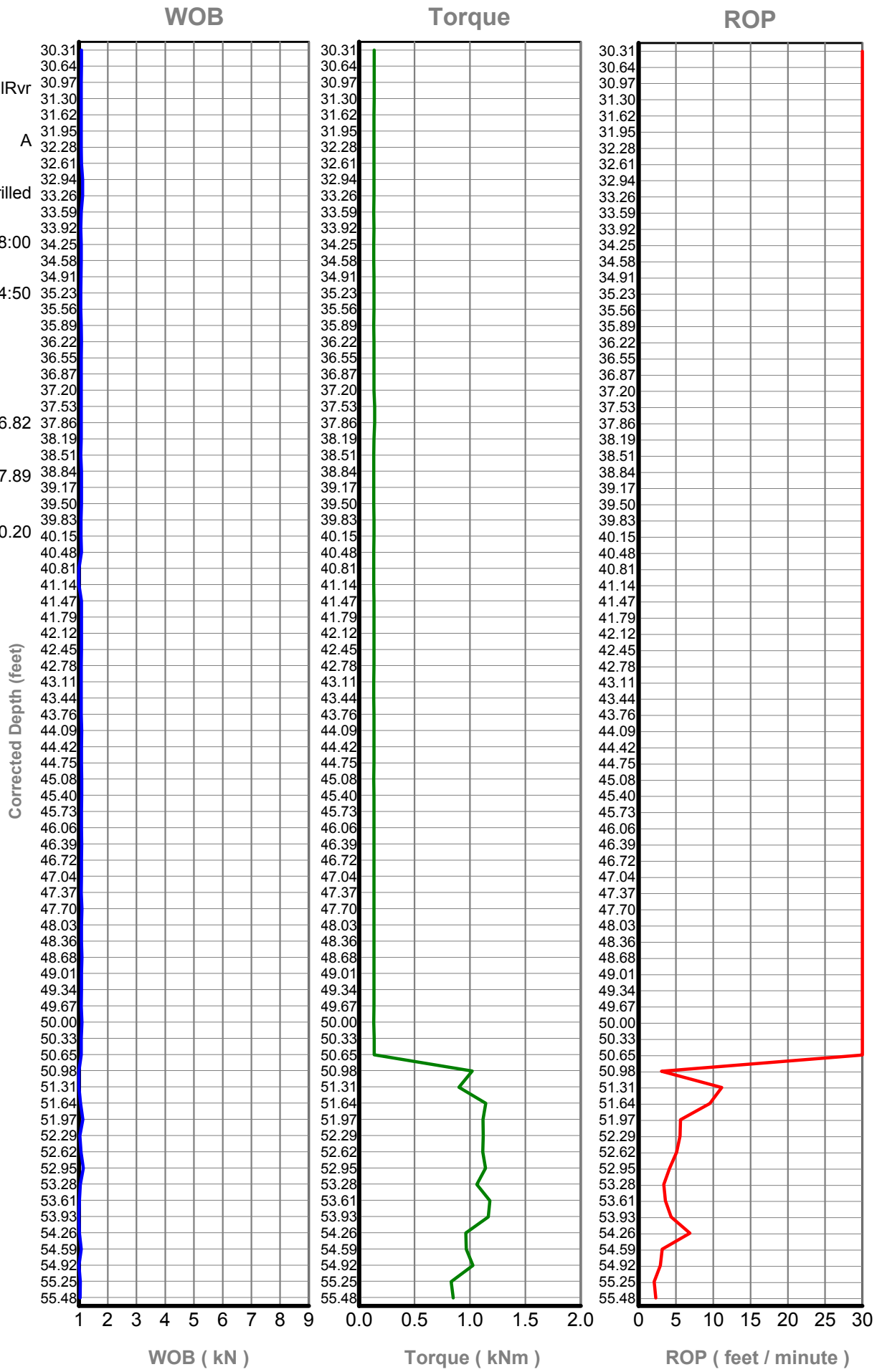
**End Date:**
4/29/2015 11:04:50

**Operator Note:**
6.2 a Auto Complete

**Northing:**
362,286.82

**Easting:**
244,837.89

**Tide (feet):**
0.20



## Hole: K7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 16:10:42 | 31.17 | 30.17 | 1,177 | 1.14 | 0.29 | 64.4 |
| 4/29/2015 16:10:42 | 31.50 | 30.50 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:43 | 31.82 | 30.82 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:43 | 32.15 | 31.15 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:43 | 32.48 | 31.48 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:43 | 32.81 | 31.81 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:44 | 33.14 | 32.14 | 1,175 | 1.14 | 0.29 | 64.3 |
| 4/29/2015 16:10:44 | 33.46 | 32.46 | 1,165 | 1.14 | 0.29 | 63.7 |
| 4/29/2015 16:10:44 | 33.79 | 32.79 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 16:10:45 | 34.12 | 33.12 | 1,172 | 1.14 | 0.29 | 64.1 |
| 4/29/2015 16:10:45 | 34.45 | 33.45 | 1,162 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 16:10:45 | 34.78 | 33.78 | 1,162 | 1.14 | 0.29 | 63.5 |
| 4/29/2015 16:11:11 | 35.11 | 34.11 | 58 | 1.14 | 0.29 | 3.2 |
| 4/29/2015 16:11:13 | 35.43 | 34.43 | 184 | 1.14 | 0.29 | 10.1 |
| 4/29/2015 16:11:13 | 35.76 | 34.76 | 269 | 1.14 | 0.29 | 14.7 |
| 4/29/2015 16:11:14 | 36.09 | 35.09 | 352 | 1.14 | 0.29 | 19.2 |
| 4/29/2015 16:11:14 | 36.42 | 35.42 | 433 | 1.14 | 0.29 | 23.7 |
| 4/29/2015 16:11:15 | 36.75 | 35.75 | 511 | 1.14 | 0.29 | 28.0 |
| 4/29/2015 16:11:15 | 37.07 | 36.07 | 587 | 1.14 | 0.29 | 32.1 |
| 4/29/2015 16:11:16 | 37.40 | 36.40 | 623 | 1.14 | 0.29 | 34.0 |
| 4/29/2015 16:11:42 | 37.73 | 36.73 | 76 | 1.14 | 0.29 | 4.2 |
| 4/29/2015 16:16:25 | 38.06 | 37.06 | 127 | 1.14 | 0.29 | 6.9 |
| 4/29/2015 16:16:26 | 38.39 | 37.39 | 245 | 1.14 | 0.29 | 13.4 |
| 4/29/2015 16:17:24 | 38.71 | 37.71 | 53 | 1.14 | 0.29 | 2.9 |
| 4/29/2015 16:18:09 | 39.04 | 38.04 | 119 | 1.14 | 0.29 | 6.5 |
| 4/29/2015 16:19:09 | 39.37 | 38.37 | 12 | 1.14 | 0.29 | 0.6 |
| 4/29/2015 16:19:11 | 39.70 | 38.70 | 142 | 1.14 | 0.29 | 7.8 |
| 4/29/2015 16:22:48 | 40.03 | 39.03 | 50 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 16:23:01 | 40.35 | 39.35 | 75 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 16:36:02 | 40.68 | 39.68 | 78 | 1.14 | 0.29 | 4.3 |
| 4/29/2015 16:36:03 | 41.01 | 40.01 | 215 | 1.14 | 0.29 | 11.8 |
| 4/29/2015 16:36:04 | 41.34 | 40.34 | 241 | 1.14 | 0.29 | 13.2 |
| 4/29/2015 16:36:56 | 41.67 | 40.67 | 45 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 16:36:57 | 41.99 | 40.99 | 155 | 1.14 | 0.29 | 8.5 |
| 4/29/2015 16:36:58 | 42.32 | 41.32 | 337 | 1.14 | 0.29 | 18.4 |
| 4/29/2015 16:36:59 | 42.65 | 41.65 | 369 | 1.14 | 0.29 | 20.2 |
| 4/29/2015 16:37:00 | 42.98 | 41.98 | 361 | 1.14 | 0.29 | 19.7 |
| 4/29/2015 16:37:01 | 43.31 | 42.31 | 311 | 1.14 | 0.29 | 17.0 |
| 4/29/2015 16:37:02 | 43.64 | 42.64 | 313 | 1.14 | 0.29 | 17.1 |
| 4/29/2015 16:37:16 | 43.96 | 42.96 | 29 | 1.14 | 0.29 | 1.6 |
| 4/29/2015 16:40:27 | 44.29 | 43.29 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 16:40:52 | 44.62 | 43.62 | 43 | 1.14 | 0.29 | 2.4 |
| 4/29/2015 16:40:59 | 44.95 | 43.95 | 46 | 1.14 | 0.29 | 2.5 |
| 4/29/2015 16:41:09 | 45.28 | 44.28 | 32 | 1.14 | 0.29 | 1.8 |
| 4/29/2015 16:41:21 | 45.60 | 44.60 | 29 | 1.14 | 0.29 | 1.6 |
| 4/29/2015 16:41:25 | 45.76 | 44.76 | 34 | 1.14 | 0.29 | 1.9 |

## K7 - Summary

**Pattern Number:**
AreaK_Lane14-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 16:09:10

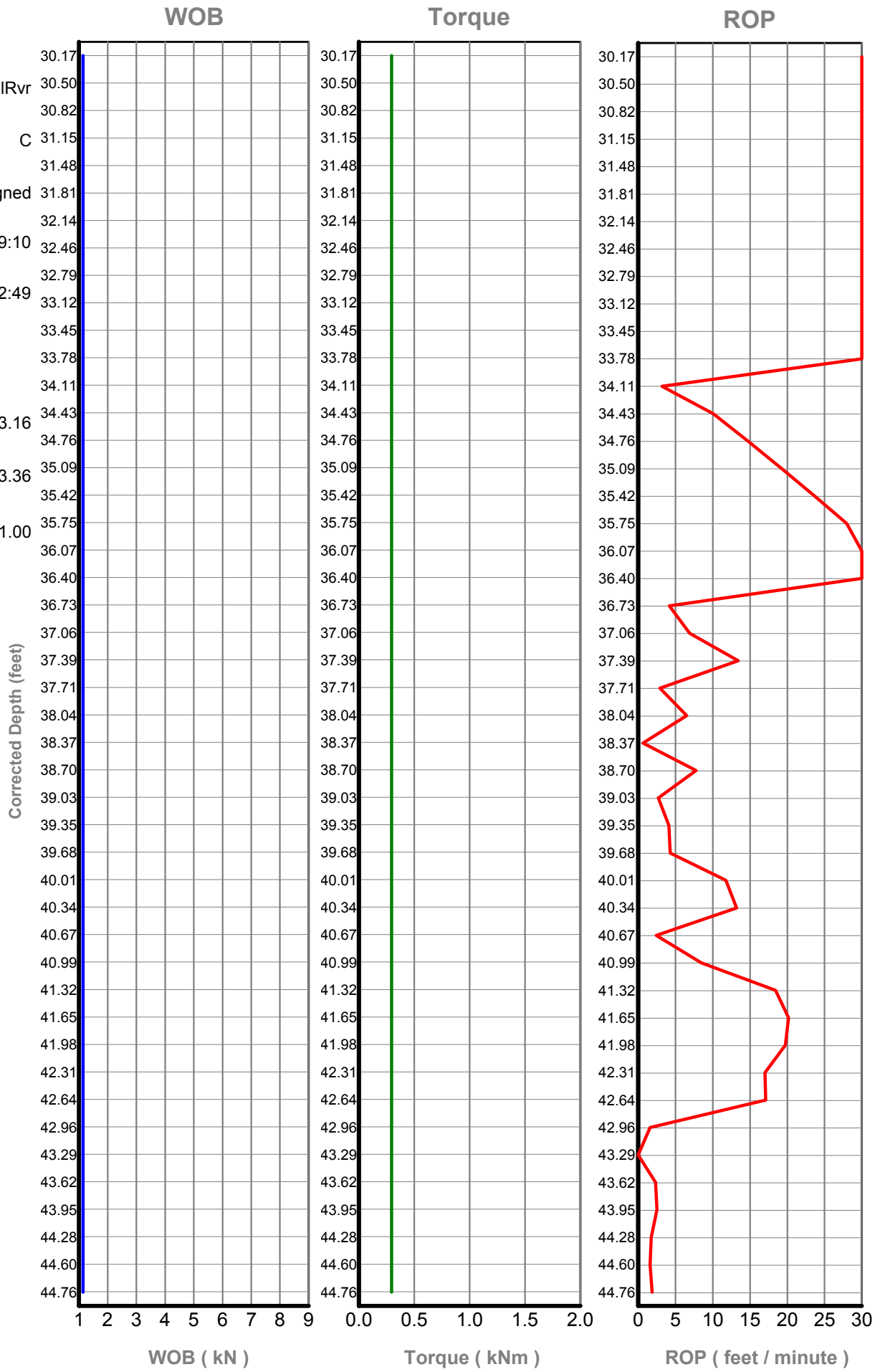
**End Date:**
4/29/2015 16:42:49

**Operator Note:**
'1 1.2 C Auto Complete'

**Northing:**
361,923.16

**Easting:**
244,423.36

**Tide (feet):**
1.00



## Hole: K70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:08:54 | 30.84 | 30.14 | 1,137 | 1.79 | 0.24 | 62.2 |
| 4/30/2015 5:08:54 | 31.17 | 30.47 | 1,133 | 1.77 | 0.24 | 62.0 |
| 4/30/2015 5:08:55 | 31.50 | 30.80 | 1,133 | 1.77 | 0.24 | 62.0 |
| 4/30/2015 5:08:55 | 31.82 | 31.12 | 1,138 | 1.79 | 0.24 | 62.2 |
| 4/30/2015 5:08:55 | 32.15 | 31.45 | 1,138 | 1.79 | 0.24 | 62.2 |
| 4/30/2015 5:08:55 | 32.48 | 31.78 | 1,183 | 1.79 | 0.24 | 64.7 |
| 4/30/2015 5:08:56 | 32.81 | 32.11 | 1,171 | 1.79 | 0.24 | 64.0 |
| 4/30/2015 5:08:57 | 33.14 | 32.44 | 1,171 | 1.79 | 0.24 | 64.0 |
| 4/30/2015 5:08:56 | 33.46 | 32.76 | 1,154 | 1.76 | 0.24 | 63.1 |
| 4/30/2015 5:08:57 | 33.79 | 33.09 | 1,154 | 1.76 | 0.24 | 63.1 |
| 4/30/2015 5:08:57 | 34.12 | 33.42 | 1,178 | 1.92 | 0.24 | 64.4 |
| 4/30/2015 5:08:58 | 34.45 | 33.75 | 1,172 | 1.76 | 0.24 | 64.1 |
| 4/30/2015 5:08:58 | 34.78 | 34.08 | 1,172 | 1.76 | 0.24 | 64.1 |
| 4/30/2015 5:08:58 | 35.11 | 34.41 | 1,172 | 1.76 | 0.24 | 64.1 |
| 4/30/2015 5:08:59 | 35.43 | 34.73 | 1,172 | 1.76 | 0.24 | 64.1 |
| 4/30/2015 5:08:59 | 35.76 | 35.06 | 1,172 | 1.76 | 0.24 | 64.1 |
| 4/30/2015 5:08:59 | 36.09 | 35.39 | 1,181 | 1.70 | 0.26 | 64.6 |
| 4/30/2015 5:09:00 | 36.42 | 35.72 | 1,181 | 1.70 | 0.26 | 64.6 |
| 4/30/2015 5:09:00 | 36.75 | 36.05 | 1,162 | 1.79 | 0.24 | 63.5 |
| 4/30/2015 5:09:00 | 37.07 | 36.37 | 1,162 | 1.79 | 0.24 | 63.5 |
| 4/30/2015 5:09:00 | 37.40 | 36.70 | 1,162 | 1.74 | 0.24 | 63.5 |
| 4/30/2015 5:09:01 | 37.73 | 37.03 | 1,152 | 1.76 | 0.24 | 63.0 |
| 4/30/2015 5:09:01 | 38.06 | 37.36 | 1,152 | 1.76 | 0.24 | 63.0 |
| 4/30/2015 5:09:01 | 38.39 | 37.69 | 1,149 | 1.85 | 0.24 | 62.8 |
| 4/30/2015 5:09:02 | 38.71 | 38.01 | 1,149 | 1.85 | 0.24 | 62.8 |
| 4/30/2015 5:09:02 | 39.04 | 38.34 | 1,145 | 1.77 | 0.24 | 62.6 |
| 4/30/2015 5:09:02 | 39.37 | 38.67 | 1,145 | 1.77 | 0.24 | 62.6 |
| 4/30/2015 5:09:02 | 39.70 | 39.00 | 1,150 | 1.77 | 0.24 | 62.9 |
| 4/30/2015 5:09:03 | 40.03 | 39.33 | 1,153 | 1.79 | 0.24 | 63.1 |
| 4/30/2015 5:09:03 | 40.35 | 39.65 | 1,153 | 1.79 | 0.24 | 63.1 |
| 4/30/2015 5:09:03 | 40.68 | 39.98 | 1,156 | 1.74 | 0.24 | 63.2 |
| 4/30/2015 5:09:04 | 41.01 | 40.31 | 1,156 | 1.74 | 0.24 | 63.2 |
| 4/30/2015 5:09:04 | 41.34 | 40.64 | 1,166 | 1.74 | 0.24 | 63.8 |
| 4/30/2015 5:09:04 | 41.67 | 40.97 | 1,157 | 1.40 | 0.25 | 63.2 |
| 4/30/2015 5:09:05 | 41.99 | 41.29 | 1,157 | 1.40 | 0.25 | 63.2 |
| 4/30/2015 5:09:05 | 42.32 | 41.62 | 1,089 | 1.39 | 0.25 | 59.6 |
| 4/30/2015 5:09:05 | 42.65 | 41.95 | 1,035 | 1.46 | 0.24 | 56.6 |
| 4/30/2015 5:09:09 | 42.98 | 42.28 | 64 | 1.08 | 0.20 | 3.5 |
| 4/30/2015 5:09:10 | 43.31 | 42.61 | 204 | 1.13 | 0.22 | 11.2 |
| 4/30/2015 5:09:10 | 43.64 | 42.94 | 204 | 1.13 | 0.20 | 11.2 |
| 4/30/2015 5:09:11 | 43.96 | 43.26 | 357 | 1.11 | 0.20 | 19.5 |
| 4/30/2015 5:09:11 | 44.29 | 43.59 | 499 | 1.11 | 0.20 | 27.3 |
| 4/30/2015 5:09:12 | 44.62 | 43.92 | 657 | 1.13 | 0.20 | 35.9 |
| 4/30/2015 5:09:12 | 44.95 | 44.25 | 736 | 1.12 | 0.20 | 40.2 |
| 4/30/2015 5:09:13 | 45.28 | 44.58 | 736 | 1.12 | 0.20 | 40.2 |
| 4/30/2015 5:09:19 | 45.60 | 44.90 | 3 | 1.15 | 0.19 | 0.2 |
| 4/30/2015 5:09:27 | 45.93 | 45.23 | 127 | 1.22 | 1.18 | 6.9 |
| 4/30/2015 5:09:30 | 46.26 | 45.56 | 101 | 1.02 | 1.28 | 5.5 |
| 4/30/2015 5:09:32 | 46.59 | 45.89 | 179 | 1.09 | 1.23 | 9.8 |
| 4/30/2015 5:09:33 | 46.92 | 46.22 | 237 | 1.12 | 1.26 | 13.0 |
| 4/30/2015 5:09:35 | 47.24 | 46.54 | 168 | 1.08 | 1.12 | 9.2 |
| 4/30/2015 5:09:41 | 47.57 | 46.87 | 73 | 1.11 | 1.14 | 4.0 |
| 4/30/2015 5:09:45 | 47.90 | 47.20 | 88 | 1.11 | 0.90 | 4.8 |
| 4/30/2015 5:09:55 | 48.23 | 47.53 | 32 | 1.13 | 0.96 | 1.7 |
| 4/30/2015 5:10:06 | 48.56 | 47.86 | 34 | 1.05 | 1.03 | 1.9 |
| 4/30/2015 5:10:16 | 48.88 | 48.18 | 37 | 1.02 | 0.95 | 2.0 |
| 4/30/2015 5:10:17 | 48.93 | 48.23 | 38 | 1.06 | 0.90 | 2.1 |

## K70 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:07:01

**End Date:**
4/30/2015 5:12:21

**Operator Note:**
'0.7 .8 a Auto Complete'

**Northing:**
362,130.50

**Easting:**
245,044.80

**Tide (feet):**
0.70



## Hole: K71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:09:48 | 30.84 | 30.14 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:48 | 31.17 | 30.47 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:48 | 31.50 | 30.80 | 1,069 | 0.35 | 0.39 | 58.5 |
| 4/30/2015 5:09:49 | 31.82 | 31.12 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/30/2015 5:09:49 | 32.15 | 31.45 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/30/2015 5:09:49 | 32.48 | 31.78 | 1,063 | 0.35 | 0.39 | 58.1 |
| 4/30/2015 5:09:50 | 32.81 | 32.11 | 1,063 | 0.35 | 0.39 | 58.1 |
| 4/30/2015 5:09:50 | 33.14 | 32.44 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:50 | 33.46 | 32.76 | 1,070 | 0.35 | 0.39 | 58.5 |
| 4/30/2015 5:09:51 | 33.79 | 33.09 | 1,070 | 0.35 | 0.39 | 58.5 |
| 4/30/2015 5:09:51 | 34.12 | 33.42 | 1,070 | 0.35 | 0.40 | 58.5 |
| 4/30/2015 5:09:51 | 34.45 | 33.75 | 1,073 | 0.35 | 0.38 | 58.7 |
| 4/30/2015 5:09:52 | 34.78 | 34.08 | 1,073 | 0.35 | 0.38 | 58.7 |
| 4/30/2015 5:09:52 | 35.11 | 34.41 | 1,078 | 0.35 | 0.39 | 59.0 |
| 4/30/2015 5:09:52 | 35.43 | 34.73 | 1,060 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 5:09:53 | 35.76 | 35.06 | 1,060 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 5:09:53 | 36.09 | 35.39 | 1,060 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 5:09:54 | 36.42 | 35.72 | 1,060 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 5:09:54 | 36.75 | 36.05 | 1,065 | 0.35 | 0.39 | 58.2 |
| 4/30/2015 5:09:54 | 37.07 | 36.37 | 1,071 | 0.35 | 0.39 | 58.6 |
| 4/30/2015 5:09:55 | 37.40 | 36.70 | 1,071 | 0.35 | 0.39 | 58.6 |
| 4/30/2015 5:09:55 | 37.73 | 37.03 | 1,070 | 0.35 | 0.39 | 58.5 |
| 4/30/2015 5:09:55 | 38.06 | 37.36 | 1,072 | 0.34 | 0.39 | 58.6 |
| 4/30/2015 5:09:56 | 38.39 | 37.69 | 1,072 | 0.34 | 0.39 | 58.6 |
| 4/30/2015 5:09:56 | 38.71 | 38.01 | 1,077 | 0.35 | 0.39 | 58.9 |
| 4/30/2015 5:09:56 | 39.04 | 38.34 | 1,085 | 0.35 | 0.39 | 59.3 |
| 4/30/2015 5:09:57 | 39.37 | 38.67 | 1,085 | 0.35 | 0.39 | 59.3 |
| 4/30/2015 5:09:57 | 39.70 | 39.00 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:57 | 40.03 | 39.33 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:57 | 40.35 | 39.65 | 1,082 | 0.35 | 0.39 | 59.2 |
| 4/30/2015 5:09:58 | 40.68 | 39.98 | 1,075 | 0.34 | 0.39 | 58.8 |
| 4/30/2015 5:09:58 | 41.01 | 40.31 | 1,075 | 0.34 | 0.39 | 58.8 |
| 4/30/2015 5:09:58 | 41.34 | 40.64 | 1,081 | 0.35 | 0.39 | 59.1 |
| 4/30/2015 5:09:59 | 41.67 | 40.97 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:59 | 41.99 | 41.29 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:09:59 | 42.32 | 41.62 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:10:00 | 42.65 | 41.95 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/30/2015 5:10:00 | 42.98 | 42.28 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/30/2015 5:10:00 | 43.31 | 42.61 | 1,081 | 0.35 | 0.38 | 59.1 |
| 4/30/2015 5:10:01 | 43.64 | 42.94 | 1,081 | 0.35 | 0.38 | 59.1 |
| 4/30/2015 5:10:01 | 43.96 | 43.26 | 1,075 | 0.35 | 0.38 | 58.8 |
| 4/30/2015 5:10:01 | 44.29 | 43.59 | 1,069 | 0.35 | 0.38 | 58.4 |
| 4/30/2015 5:10:02 | 44.62 | 43.92 | 1,069 | 0.35 | 0.38 | 58.4 |
| 4/30/2015 5:10:02 | 44.95 | 44.25 | 1,075 | 0.35 | 0.39 | 58.8 |
| 4/30/2015 5:10:02 | 45.28 | 44.58 | 1,078 | 0.35 | 0.38 | 59.0 |
| 4/30/2015 5:10:03 | 45.60 | 44.90 | 1,078 | 0.35 | 0.38 | 59.0 |
| 4/30/2015 5:10:03 | 45.93 | 45.23 | 1,072 | 0.34 | 0.39 | 58.6 |
| 4/30/2015 5:10:04 | 46.26 | 45.56 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/30/2015 5:10:04 | 46.59 | 45.89 | 1,072 | 0.35 | 0.38 | 58.6 |
| 4/30/2015 5:10:04 | 46.92 | 46.22 | 1,072 | 0.31 | 0.45 | 58.6 |
| 4/30/2015 5:10:09 | 47.24 | 46.54 | 109 | 4.58 | 0.47 | 6.0 |
| 4/30/2015 5:10:16 | 47.57 | 46.87 | 30 | 2.89 | 0.47 | 1.7 |
| 4/30/2015 5:10:25 | 47.90 | 47.20 | 56 | 3.28 | 0.48 | 3.1 |
| 4/30/2015 5:10:35 | 48.23 | 47.53 | 37 | 3.16 | 0.47 | 2.0 |
| 4/30/2015 5:10:42 | 48.54 | 47.84 | 44 | 3.30 | 0.48 | 2.4 |

## K71 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:08:24

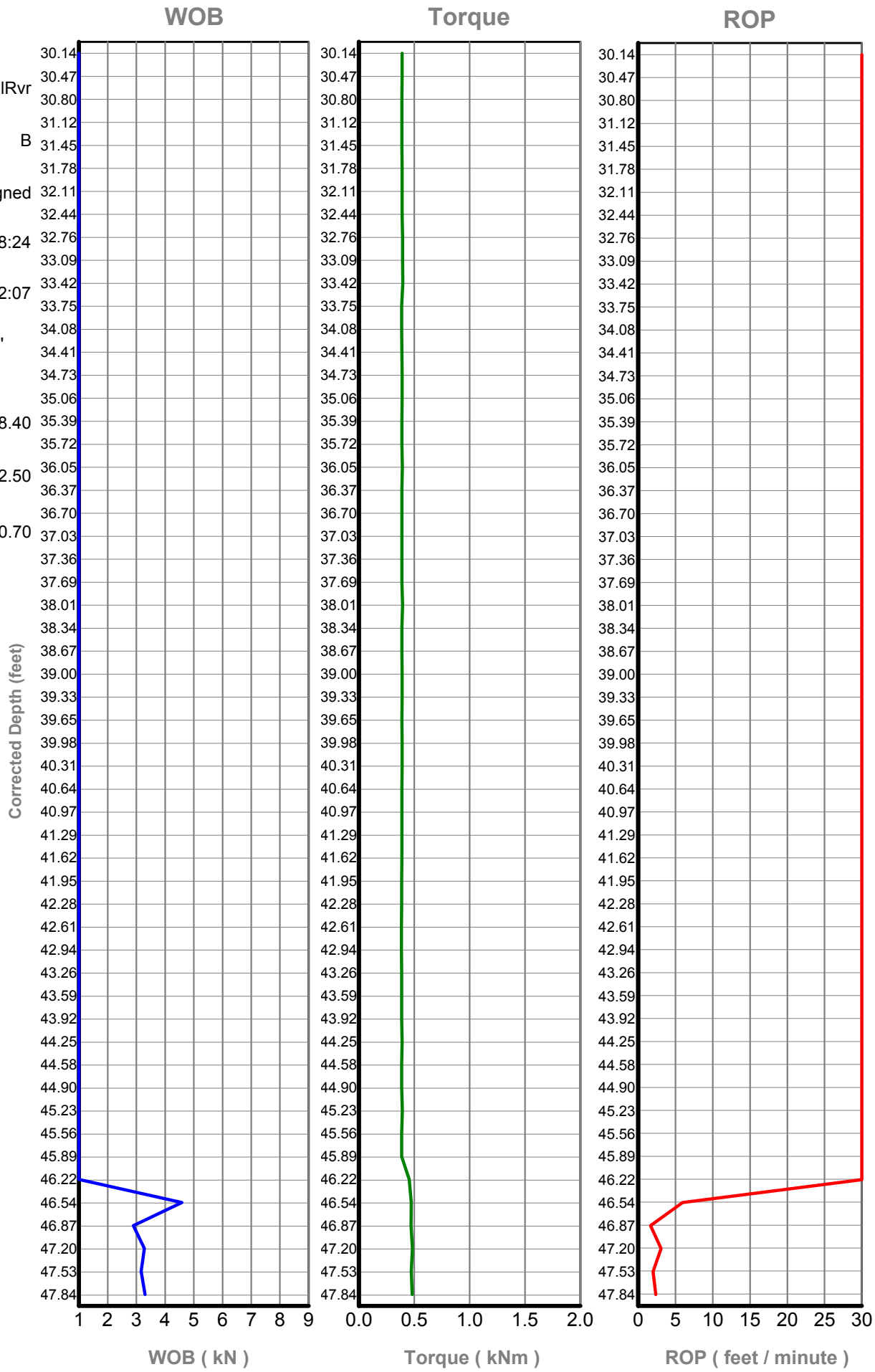
**End Date:**
4/30/2015 5:12:07

**Operator Note:**
'0.7 0.8b Auto Complete'

**Northing:**
362,178.40

**Easting:**
245,102.50

**Tide (feet):**
0.70



## Hole: K72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 5:08:17 | 30.84 | 30.14 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 5:08:17 | 31.17 | 30.47 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:08:17 | 31.50 | 30.80 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:18 | 31.82 | 31.12 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:18 | 32.15 | 31.45 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 5:08:18 | 32.48 | 31.78 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:19 | 32.81 | 32.11 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:19 | 33.14 | 32.44 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:19 | 33.46 | 32.76 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:19 | 33.79 | 33.09 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 5:08:20 | 34.12 | 33.42 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:08:20 | 34.45 | 33.75 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:08:20 | 34.78 | 34.08 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:08:21 | 35.11 | 34.41 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:08:21 | 35.43 | 34.73 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 5:08:21 | 35.76 | 35.06 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:22 | 36.09 | 35.39 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:22 | 36.42 | 35.72 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:08:22 | 36.75 | 36.05 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:23 | 37.07 | 36.37 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:23 | 37.40 | 36.70 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:24 | 37.73 | 37.03 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:24 | 38.06 | 37.36 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:24 | 38.39 | 37.69 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 5:08:25 | 38.71 | 38.01 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:25 | 39.04 | 38.34 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 5:08:25 | 39.37 | 38.67 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:08:26 | 39.70 | 39.00 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:08:26 | 40.03 | 39.33 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:26 | 40.35 | 39.65 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:27 | 40.68 | 39.98 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:27 | 41.01 | 40.31 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:27 | 41.34 | 40.64 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:28 | 41.67 | 40.97 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:28 | 41.99 | 41.29 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:08:28 | 42.32 | 41.62 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:08:29 | 42.65 | 41.95 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 5:08:29 | 42.98 | 42.28 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:29 | 43.31 | 42.61 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:29 | 43.64 | 42.94 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:30 | 43.96 | 43.26 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:30 | 44.29 | 43.59 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:30 | 44.62 | 43.92 | 1,082 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 5:08:31 | 44.95 | 44.25 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:31 | 45.28 | 44.58 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 5:08:31 | 45.60 | 44.90 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:32 | 45.93 | 45.23 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:08:32 | 46.26 | 45.56 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:08:32 | 46.59 | 45.89 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 5:08:33 | 46.92 | 46.22 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:33 | 47.24 | 46.54 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:33 | 47.57 | 46.87 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 5:08:42 | 47.90 | 47.20 | 15 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 5:08:42 | 48.23 | 47.53 | 47 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 5:08:46 | 48.56 | 47.86 | 84 | 1.14 | 0.29 | 4.6 |
| 4/30/2015 5:08:53 | 48.88 | 48.18 | 47 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 5:09:02 | 49.21 | 48.51 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 5:09:09 | 49.54 | 48.84 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 5:09:14 | 49.78 | 49.08 | 47 | 1.14 | 0.29 | 2.6 |

## K72 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 5:07:20

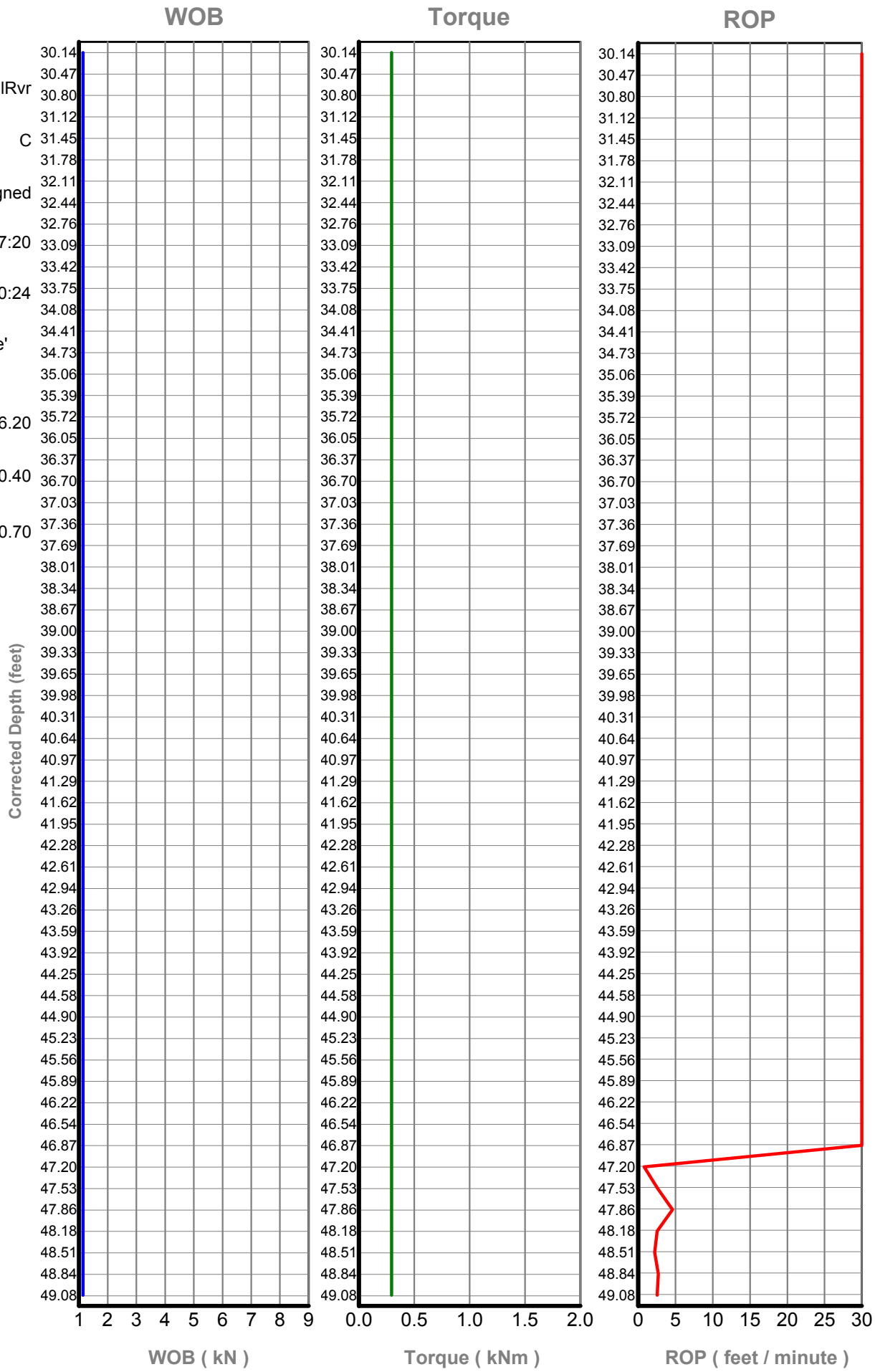
**End Date:**
4/30/2015 5:10:24

**Operator Note:**
'0.7 0.8 c Auto Complete'

**Northing:**
362,226.20

**Easting:**
245,160.40

**Tide (feet):**
0.70



## Hole: K73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:38:44 | 32.81 | 30.01 | 1,215 | 1.63 | 0.23 | 66.5 |
| 4/30/2015 2:38:45 | 33.14 | 30.34 | 1,215 | 1.63 | 0.23 | 66.5 |
| 4/30/2015 2:38:45 | 33.46 | 30.66 | 1,225 | 1.37 | 0.24 | 67.0 |
| 4/30/2015 2:38:45 | 33.79 | 30.99 | 1,173 | 1.38 | 0.24 | 64.2 |
| 4/30/2015 2:38:46 | 34.12 | 31.32 | 1,173 | 1.38 | 0.24 | 64.2 |
| 4/30/2015 2:38:46 | 34.45 | 31.65 | 1,173 | 1.38 | 0.24 | 64.2 |
| 4/30/2015 2:38:46 | 34.78 | 31.98 | 1,114 | 1.39 | 0.25 | 60.9 |
| 4/30/2015 2:38:47 | 35.11 | 32.31 | 1,045 | 1.38 | 0.24 | 57.2 |
| 4/30/2015 2:38:47 | 35.43 | 32.63 | 1,045 | 1.38 | 0.24 | 57.2 |
| 4/30/2015 2:38:48 | 35.76 | 32.96 | 1,045 | 1.38 | 0.24 | 57.2 |
| 4/30/2015 2:38:48 | 36.09 | 33.29 | 964 | 1.38 | 0.24 | 52.7 |
| 4/30/2015 2:38:48 | 36.42 | 33.62 | 917 | 1.38 | 0.25 | 50.1 |
| 4/30/2015 2:38:49 | 36.75 | 33.95 | 909 | 1.40 | 0.25 | 49.7 |
| 4/30/2015 2:38:49 | 37.07 | 34.27 | 909 | 1.40 | 0.25 | 49.7 |
| 4/30/2015 2:38:49 | 37.40 | 34.60 | 909 | 1.40 | 0.25 | 49.7 |
| 4/30/2015 2:38:50 | 37.73 | 34.93 | 914 | 1.34 | 0.24 | 50.0 |
| 4/30/2015 2:38:50 | 38.06 | 35.26 | 896 | 1.38 | 0.25 | 49.0 |
| 4/30/2015 2:38:51 | 38.39 | 35.59 | 896 | 1.38 | 0.25 | 49.0 |
| 4/30/2015 2:38:51 | 38.71 | 35.91 | 910 | 1.40 | 0.25 | 49.8 |
| 4/30/2015 2:38:52 | 39.04 | 36.24 | 913 | 1.38 | 0.25 | 49.9 |
| 4/30/2015 2:38:52 | 39.37 | 36.57 | 883 | 1.38 | 0.24 | 48.3 |
| 4/30/2015 2:38:53 | 39.70 | 36.90 | 883 | 1.39 | 0.25 | 48.3 |
| 4/30/2015 2:38:53 | 40.03 | 37.23 | 883 | 1.39 | 0.25 | 48.3 |
| 4/30/2015 2:38:53 | 40.35 | 37.55 | 874 | 1.38 | 0.25 | 47.8 |
| 4/30/2015 2:38:54 | 40.68 | 37.88 | 874 | 1.40 | 0.24 | 47.8 |
| 4/30/2015 2:38:54 | 41.01 | 38.21 | 899 | 1.38 | 0.24 | 49.2 |
| 4/30/2015 2:38:55 | 41.34 | 38.54 | 899 | 1.38 | 0.24 | 49.2 |
| 4/30/2015 2:38:55 | 41.67 | 38.87 | 870 | 1.40 | 0.26 | 47.6 |
| 4/30/2015 2:38:55 | 41.99 | 39.19 | 873 | 1.72 | 0.23 | 47.7 |
| 4/30/2015 2:38:56 | 42.32 | 39.52 | 873 | 1.72 | 0.23 | 47.7 |
| 4/30/2015 2:38:56 | 42.65 | 39.85 | 930 | 1.75 | 0.23 | 50.9 |
| 4/30/2015 2:38:56 | 42.98 | 40.18 | 930 | 1.48 | 0.24 | 50.9 |
| 4/30/2015 2:38:57 | 43.31 | 40.51 | 930 | 1.48 | 0.24 | 50.9 |
| 4/30/2015 2:38:57 | 43.64 | 40.84 | 980 | 1.77 | 0.24 | 53.6 |
| 4/30/2015 2:38:57 | 43.96 | 41.16 | 980 | 1.77 | 0.24 | 53.6 |
| 4/30/2015 2:38:57 | 44.29 | 41.49 | 980 | 1.73 | 0.23 | 53.6 |
| 4/30/2015 2:38:58 | 44.62 | 41.82 | 1,020 | 1.72 | 0.23 | 55.8 |
| 4/30/2015 2:38:58 | 44.95 | 42.15 | 1,020 | 1.72 | 0.23 | 55.8 |
| 4/30/2015 2:38:58 | 45.28 | 42.48 | 1,092 | 1.74 | 0.23 | 59.7 |
| 4/30/2015 2:38:59 | 45.60 | 42.80 | 1,092 | 1.74 | 0.23 | 59.7 |
| 4/30/2015 2:38:59 | 45.93 | 43.13 | 1,141 | 1.73 | 0.23 | 62.4 |
| 4/30/2015 2:38:59 | 46.26 | 43.46 | 1,175 | 1.72 | 0.23 | 64.2 |
| 4/30/2015 2:39:00 | 46.59 | 43.79 | 1,175 | 1.72 | 0.23 | 64.2 |
| 4/30/2015 2:39:00 | 46.92 | 44.12 | 1,175 | 1.74 | 0.23 | 64.2 |
| 4/30/2015 2:39:00 | 47.24 | 44.44 | 1,175 | 1.74 | 0.23 | 64.2 |
| 4/30/2015 2:39:00 | 47.57 | 44.77 | 1,199 | 1.73 | 0.23 | 65.5 |
| 4/30/2015 2:39:01 | 47.90 | 45.10 | 1,199 | 1.73 | 0.23 | 65.5 |
| 4/30/2015 2:39:01 | 48.23 | 45.43 | 1,200 | 1.71 | 0.23 | 65.6 |
| 4/30/2015 2:39:01 | 48.56 | 45.76 | 1,210 | 1.73 | 0.23 | 66.2 |
| 4/30/2015 2:39:02 | 48.88 | 46.08 | 1,210 | 1.73 | 0.23 | 66.2 |
| 4/30/2015 2:39:11 | 49.21 | 46.41 | 0 | 2.06 | 1.59 | 0.0 |
| 4/30/2015 2:39:14 | 49.54 | 46.74 | 141 | 1.06 | 0.96 | 7.7 |
| 4/30/2015 2:39:17 | 49.87 | 47.07 | 116 | 1.19 | 1.21 | 6.3 |
| 4/30/2015 2:39:20 | 50.20 | 47.40 | 95 | 1.13 | 1.11 | 5.2 |
| 4/30/2015 2:39:26 | 50.53 | 47.73 | 57 | 1.06 | 0.95 | 3.1 |
| 4/30/2015 2:39:32 | 50.85 | 48.05 | 56 | 1.05 | 0.92 | 3.1 |
| 4/30/2015 2:39:39 | 51.18 | 48.38 | 54 | 1.06 | 0.92 | 2.9 |
| 4/30/2015 2:39:44 | 51.42 | 48.62 | 43 | 1.22 | 1.14 | 2.4 |

## K73 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:37:09

**End Date:**
4/30/2015 2:41:04

**Operator Note:**
'2.8 2.8 b Auto Complete'

**Northing:**
362,264.77

**Easting:**
245,213.60

**Tide (feet):**
2.80



## Hole: K74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:39:40 | 32.81 | 30.01 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 2:39:41 | 33.14 | 30.34 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 2:39:41 | 33.46 | 30.66 | 1,177 | 0.30 | 0.38 | 64.4 |
| 4/30/2015 2:39:41 | 33.79 | 30.99 | 1,177 | 0.30 | 0.38 | 64.4 |
| 4/30/2015 2:39:41 | 34.12 | 31.32 | 1,184 | 0.30 | 0.37 | 64.8 |
| 4/30/2015 2:39:42 | 34.45 | 31.65 | 1,184 | 0.30 | 0.37 | 64.8 |
| 4/30/2015 2:39:42 | 34.78 | 31.98 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 2:39:42 | 35.11 | 32.31 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 2:39:43 | 35.43 | 32.63 | 1,183 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 2:39:43 | 35.76 | 32.96 | 1,186 | 0.30 | 0.37 | 64.8 |
| 4/30/2015 2:39:43 | 36.09 | 33.29 | 1,186 | 0.30 | 0.37 | 64.8 |
| 4/30/2015 2:39:43 | 36.42 | 33.62 | 1,190 | 0.30 | 0.37 | 65.1 |
| 4/30/2015 2:39:44 | 36.75 | 33.95 | 1,190 | 0.30 | 0.37 | 65.1 |
| 4/30/2015 2:39:44 | 37.07 | 34.27 | 1,190 | 0.30 | 0.37 | 65.1 |
| 4/30/2015 2:39:44 | 37.40 | 34.60 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 2:39:45 | 37.73 | 34.93 | 1,179 | 0.30 | 0.37 | 64.5 |
| 4/30/2015 2:39:45 | 38.06 | 35.26 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:39:46 | 38.39 | 35.59 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:39:46 | 38.71 | 35.91 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:39:46 | 39.04 | 36.24 | 1,194 | 0.31 | 0.36 | 65.3 |
| 4/30/2015 2:39:47 | 39.37 | 36.57 | 1,194 | 0.31 | 0.36 | 65.3 |
| 4/30/2015 2:39:47 | 39.70 | 36.90 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 2:39:47 | 40.03 | 37.23 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 2:39:47 | 40.35 | 37.55 | 1,191 | 0.13 | 0.38 | 65.1 |
| 4/30/2015 2:39:48 | 40.68 | 37.88 | 1,191 | 0.13 | 0.38 | 65.1 |
| 4/30/2015 2:39:48 | 41.01 | 38.21 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:39:48 | 41.34 | 38.54 | 1,188 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:39:49 | 41.67 | 38.87 | 1,188 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:39:49 | 41.99 | 39.19 | 1,182 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 2:39:49 | 42.32 | 39.52 | 1,182 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 2:39:49 | 42.65 | 39.85 | 1,182 | 0.31 | 0.38 | 64.6 |
| 4/30/2015 2:39:50 | 42.98 | 40.18 | 1,172 | 0.30 | 0.38 | 64.1 |
| 4/30/2015 2:39:50 | 43.31 | 40.51 | 1,172 | 0.30 | 0.38 | 64.1 |
| 4/30/2015 2:39:50 | 43.64 | 40.84 | 1,188 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 2:39:51 | 43.96 | 41.16 | 1,188 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 2:39:51 | 44.29 | 41.49 | 1,196 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 2:39:51 | 44.62 | 41.82 | 1,196 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 2:39:51 | 44.95 | 42.15 | 1,196 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 2:39:52 | 45.28 | 42.48 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:39:52 | 45.60 | 42.80 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 2:39:52 | 45.93 | 43.13 | 1,215 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 2:39:53 | 46.26 | 43.46 | 1,215 | 0.29 | 0.37 | 66.4 |
| 4/30/2015 2:39:53 | 46.59 | 43.79 | 1,201 | 0.30 | 0.38 | 65.7 |
| 4/30/2015 2:39:53 | 46.92 | 44.12 | 1,201 | 0.30 | 0.38 | 65.7 |
| 4/30/2015 2:39:53 | 47.24 | 44.44 | 1,191 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:39:54 | 47.57 | 44.77 | 1,197 | 0.26 | 0.38 | 65.4 |
| 4/30/2015 2:39:54 | 47.90 | 45.10 | 1,197 | 0.26 | 0.38 | 65.4 |
| 4/30/2015 2:39:54 | 48.23 | 45.43 | 1,210 | 0.30 | 0.38 | 66.2 |
| 4/30/2015 2:39:55 | 48.56 | 45.76 | 1,210 | 0.30 | 0.38 | 66.2 |
| 4/30/2015 2:39:55 | 48.88 | 46.08 | 1,197 | 0.29 | 0.41 | 65.4 |
| 4/30/2015 2:39:59 | 49.21 | 46.41 | 0 | 3.24 | 0.45 | 0.0 |
| 4/30/2015 2:40:01 | 49.54 | 46.74 | 133 | 3.90 | 0.44 | 7.3 |
| 4/30/2015 2:40:02 | 49.87 | 47.07 | 281 | 3.81 | 0.44 | 15.4 |
| 4/30/2015 2:40:02 | 50.20 | 47.40 | 312 | 4.15 | 0.43 | 17.1 |
| 4/30/2015 2:40:03 | 50.53 | 47.73 | 371 | 5.86 | 0.43 | 20.3 |
| 4/30/2015 2:40:04 | 50.85 | 48.05 | 339 | 4.63 | 0.44 | 18.5 |
| 4/30/2015 2:40:10 | 51.18 | 48.38 | 87 | 3.35 | 0.45 | 4.7 |
| 4/30/2015 2:40:13 | 51.51 | 48.71 | 104 | 3.51 | 0.46 | 5.7 |
| 4/30/2015 2:40:20 | 51.84 | 49.04 | 38 | 3.14 | 0.47 | 2.1 |
| 4/30/2015 2:40:28 | 52.17 | 49.37 | 49 | 2.95 | 0.46 | 2.7 |
| 4/30/2015 2:40:36 | 52.49 | 49.69 | 40 | 2.83 | 0.47 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 2:40:41 | 52.70 | 49.90 | 46 | 2.83 | 0.47 | 2.5 |

## K74 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:38:06

**End Date:**
4/30/2015 2:42:14

**Operator Note:**
'2.8 2.8b Auto Complete'

**Northing:**
362,311.80

**Easting:**
245,272.00

**Tide (feet):**
2.80



## Hole: K75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:38:03 | 32.81 | 30.01 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:03 | 33.14 | 30.34 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:04 | 33.46 | 30.66 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:04 | 33.79 | 30.99 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:04 | 34.12 | 31.32 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:04 | 34.45 | 31.65 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 2:38:05 | 34.78 | 31.98 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:38:05 | 35.11 | 32.31 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 2:38:05 | 35.43 | 32.63 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:06 | 35.76 | 32.96 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:06 | 36.09 | 33.29 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:06 | 36.42 | 33.62 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 2:38:07 | 36.75 | 33.95 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:07 | 37.07 | 34.27 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:07 | 37.40 | 34.60 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 2:38:08 | 37.73 | 34.93 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 2:38:08 | 38.06 | 35.26 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:08 | 38.39 | 35.59 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 2:38:09 | 38.71 | 35.91 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 2:38:09 | 39.04 | 36.24 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:09 | 39.37 | 36.57 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:10 | 39.70 | 36.90 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 2:38:10 | 40.03 | 37.23 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:10 | 40.35 | 37.55 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:10 | 40.68 | 37.88 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:11 | 41.01 | 38.21 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 2:38:12 | 41.34 | 38.54 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 2:38:12 | 41.67 | 38.87 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:12 | 41.99 | 39.19 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 2:38:13 | 42.32 | 39.52 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 2:38:13 | 42.65 | 39.85 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:13 | 42.98 | 40.18 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:13 | 43.31 | 40.51 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 2:38:14 | 43.64 | 40.84 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 2:38:14 | 43.96 | 41.16 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 2:38:14 | 44.29 | 41.49 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 2:38:15 | 44.62 | 41.82 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:15 | 44.95 | 42.15 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:15 | 45.28 | 42.48 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 2:38:16 | 45.60 | 42.80 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 2:38:16 | 45.93 | 43.13 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 2:38:16 | 46.26 | 43.46 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:17 | 46.59 | 43.79 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:17 | 46.92 | 44.12 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 2:38:17 | 47.24 | 44.44 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:18 | 47.57 | 44.77 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:18 | 47.90 | 45.10 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 2:38:18 | 48.23 | 45.43 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:19 | 48.56 | 45.76 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:19 | 48.88 | 46.08 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 2:38:37 | 49.21 | 46.41 | 126 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 2:38:38 | 49.54 | 46.74 | 200 | 1.14 | 0.29 | 10.9 |
| 4/30/2015 2:38:49 | 49.87 | 47.07 | 86 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 2:38:56 | 50.20 | 47.40 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 2:39:16 | 50.53 | 47.73 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 2:39:27 | 50.85 | 48.05 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 2:39:37 | 51.18 | 48.38 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 2:39:47 | 51.51 | 48.71 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 2:39:53 | 51.72 | 48.92 | 38 | 1.14 | 0.29 | 2.1 |

## K75 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:37:09

**End Date:**
4/30/2015 2:41:06

**Operator Note:**
'2.8 2.8 c Auto Complete'

**Northing:**
362,359.13

**Easting:**
245,330.60

**Tide (feet):**
2.80



## Hole: K76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:04:05 | 34.78 | 30.28 | 1,004 | 1.34 | 0.23 | 54.9 |
| 4/30/2015 1:04:05 | 35.11 | 30.61 | 979 | 1.34 | 0.23 | 53.5 |
| 4/30/2015 1:04:06 | 35.43 | 30.93 | 952 | 1.36 | 0.23 | 52.1 |
| 4/30/2015 1:04:06 | 35.76 | 31.26 | 952 | 1.36 | 0.23 | 52.1 |
| 4/30/2015 1:04:06 | 36.09 | 31.59 | 938 | 1.34 | 0.23 | 51.3 |
| 4/30/2015 1:04:07 | 36.42 | 31.92 | 912 | 1.36 | 0.23 | 49.8 |
| 4/30/2015 1:04:07 | 36.75 | 32.25 | 912 | 1.34 | 0.23 | 49.8 |
| 4/30/2015 1:04:08 | 37.07 | 32.57 | 912 | 1.34 | 0.23 | 49.8 |
| 4/30/2015 1:04:08 | 37.40 | 32.90 | 924 | 1.36 | 0.24 | 50.6 |
| 4/30/2015 1:04:08 | 37.73 | 33.23 | 933 | 1.36 | 0.23 | 51.0 |
| 4/30/2015 1:04:09 | 38.06 | 33.56 | 936 | 1.37 | 0.23 | 51.2 |
| 4/30/2015 1:04:10 | 38.39 | 33.89 | 936 | 1.37 | 0.23 | 51.2 |
| 4/30/2015 1:04:10 | 38.71 | 34.21 | 907 | 1.49 | 0.22 | 49.6 |
| 4/30/2015 1:04:10 | 39.04 | 34.54 | 907 | 1.34 | 0.23 | 49.6 |
| 4/30/2015 1:04:11 | 39.37 | 34.87 | 907 | 1.34 | 0.23 | 49.6 |
| 4/30/2015 1:04:11 | 39.70 | 35.20 | 951 | 1.36 | 0.24 | 52.0 |
| 4/30/2015 1:04:11 | 40.03 | 35.53 | 922 | 1.36 | 0.23 | 50.4 |
| 4/30/2015 1:04:12 | 40.35 | 35.85 | 922 | 1.53 | 0.21 | 50.4 |
| 4/30/2015 1:04:12 | 40.68 | 36.18 | 922 | 1.53 | 0.21 | 50.4 |
| 4/30/2015 1:04:12 | 41.01 | 36.51 | 924 | 1.48 | 0.22 | 50.5 |
| 4/30/2015 1:04:13 | 41.34 | 36.84 | 956 | 1.51 | 0.22 | 52.3 |
| 4/30/2015 1:04:13 | 41.67 | 37.17 | 956 | 1.51 | 0.22 | 52.3 |
| 4/30/2015 1:04:13 | 41.99 | 37.49 | 1,009 | 1.51 | 0.22 | 55.2 |
| 4/30/2015 1:04:14 | 42.32 | 37.82 | 1,009 | 1.43 | 0.23 | 55.2 |
| 4/30/2015 1:04:14 | 42.65 | 38.15 | 1,009 | 1.43 | 0.23 | 55.2 |
| 4/30/2015 1:04:14 | 42.98 | 38.48 | 1,041 | 1.59 | 0.23 | 56.9 |
| 4/30/2015 1:04:15 | 43.31 | 38.81 | 1,041 | 1.43 | 0.23 | 56.9 |
| 4/30/2015 1:04:15 | 43.64 | 39.14 | 1,041 | 1.43 | 0.23 | 56.9 |
| 4/30/2015 1:04:15 | 43.96 | 39.46 | 1,054 | 1.45 | 0.23 | 57.7 |
| 4/30/2015 1:04:16 | 44.29 | 39.79 | 1,037 | 1.49 | 0.22 | 56.7 |
| 4/30/2015 1:04:16 | 44.62 | 40.12 | 1,037 | 1.49 | 0.22 | 56.7 |
| 4/30/2015 1:04:16 | 44.95 | 40.45 | 1,021 | 1.49 | 0.22 | 55.8 |
| 4/30/2015 1:04:17 | 45.28 | 40.78 | 1,021 | 1.50 | 0.22 | 55.8 |
| 4/30/2015 1:04:17 | 45.60 | 41.10 | 1,021 | 1.50 | 0.22 | 55.8 |
| 4/30/2015 1:04:17 | 45.93 | 41.43 | 1,047 | 1.50 | 0.22 | 57.3 |
| 4/30/2015 1:04:18 | 46.26 | 41.76 | 1,047 | 1.50 | 0.22 | 57.3 |
| 4/30/2015 1:04:18 | 46.59 | 42.09 | 1,043 | 1.48 | 0.22 | 57.1 |
| 4/30/2015 1:04:18 | 46.92 | 42.42 | 1,049 | 1.50 | 0.22 | 57.3 |
| 4/30/2015 1:04:19 | 47.24 | 42.74 | 1,049 | 1.50 | 0.22 | 57.3 |
| 4/30/2015 1:04:19 | 47.57 | 43.07 | 1,061 | 1.49 | 0.22 | 58.0 |
| 4/30/2015 1:04:20 | 47.90 | 43.40 | 1,058 | 1.50 | 0.22 | 57.9 |
| 4/30/2015 1:04:20 | 48.23 | 43.73 | 1,058 | 1.50 | 0.22 | 57.9 |
| 4/30/2015 1:04:20 | 48.56 | 44.06 | 1,058 | 1.51 | 0.22 | 57.9 |
| 4/30/2015 1:04:21 | 48.88 | 44.38 | 1,058 | 1.47 | 0.22 | 57.9 |
| 4/30/2015 1:04:21 | 49.21 | 44.71 | 1,058 | 1.47 | 0.22 | 57.9 |
| 4/30/2015 1:04:21 | 49.54 | 45.04 | 1,061 | 1.52 | 0.22 | 58.0 |
| 4/30/2015 1:04:30 | 49.87 | 45.37 | 0 | 1.66 | 1.21 | 0.0 |
| 4/30/2015 1:04:34 | 50.20 | 45.70 | 27 | 1.11 | 1.20 | 1.5 |
| 4/30/2015 1:04:42 | 50.53 | 46.03 | 35 | 1.02 | 1.02 | 1.9 |
| 4/30/2015 1:04:51 | 50.85 | 46.35 | 46 | 1.09 | 0.97 | 2.5 |
| 4/30/2015 1:04:58 | 51.18 | 46.68 | 46 | 1.04 | 0.90 | 2.5 |
| 4/30/2015 1:05:03 | 51.44 | 46.94 | 53 | 1.10 | 0.96 | 2.9 |

## K76 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:02:26

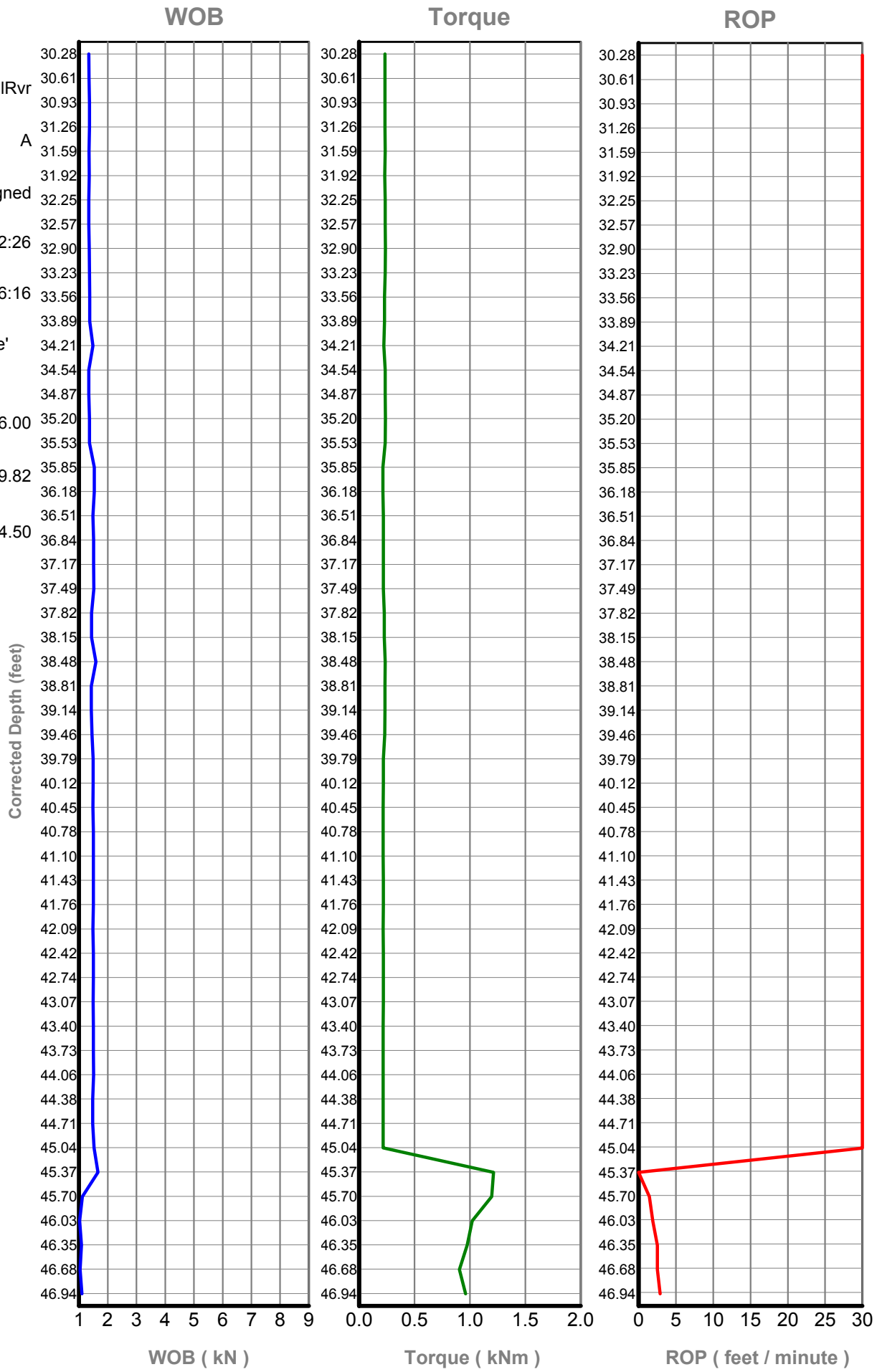
**End Date:**
4/30/2015 1:06:16

**Operator Note:**
'4.5 4.5 b Auto Complete'

**Northing:**
362,406.00

**Easting:**
245,389.82

**Tide (feet):**
4.50



## Hole: K77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:05:39 | 34.78 | 30.28 | 1,153 | 0.30 | 0.36 | 63.1 |
| 4/30/2015 1:05:40 | 35.11 | 30.61 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 1:05:41 | 35.43 | 30.93 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 1:05:41 | 35.76 | 31.26 | 1,161 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 1:05:41 | 36.09 | 31.59 | 1,161 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 1:05:41 | 36.42 | 31.92 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 1:05:42 | 36.75 | 32.25 | 1,181 | 0.30 | 0.37 | 64.6 |
| 4/30/2015 1:05:42 | 37.07 | 32.57 | 1,168 | 0.29 | 0.39 | 63.9 |
| 4/30/2015 1:05:42 | 37.40 | 32.90 | 1,158 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 1:05:43 | 37.73 | 33.23 | 1,158 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 1:05:43 | 38.06 | 33.56 | 1,185 | 0.30 | 0.36 | 64.8 |
| 4/30/2015 1:05:43 | 38.39 | 33.89 | 1,185 | 0.30 | 0.36 | 64.8 |
| 4/30/2015 1:05:43 | 38.71 | 34.21 | 1,177 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 1:05:44 | 39.04 | 34.54 | 1,166 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 1:05:44 | 39.37 | 34.87 | 1,166 | 0.29 | 0.37 | 63.8 |
| 4/30/2015 1:05:44 | 39.70 | 35.20 | 1,182 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 1:05:45 | 40.03 | 35.53 | 1,182 | 0.29 | 0.36 | 64.7 |
| 4/30/2015 1:05:45 | 40.35 | 35.85 | 1,182 | 0.31 | 0.36 | 64.7 |
| 4/30/2015 1:05:45 | 40.68 | 36.18 | 1,182 | 0.31 | 0.36 | 64.7 |
| 4/30/2015 1:05:45 | 41.01 | 36.51 | 1,176 | 0.29 | 0.37 | 64.3 |
| 4/30/2015 1:05:46 | 41.34 | 36.84 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 1:05:46 | 41.67 | 37.17 | 1,180 | 0.31 | 0.37 | 64.5 |
| 4/30/2015 1:05:46 | 41.99 | 37.49 | 1,183 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 1:05:47 | 42.32 | 37.82 | 1,183 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 1:05:47 | 42.65 | 38.15 | 1,170 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 1:05:47 | 42.98 | 38.48 | 1,170 | 0.29 | 0.37 | 64.0 |
| 4/30/2015 1:05:47 | 43.31 | 38.81 | 1,180 | 0.29 | 0.37 | 64.5 |
| 4/30/2015 1:05:48 | 43.64 | 39.14 | 1,187 | 0.29 | 0.36 | 64.9 |
| 4/30/2015 1:05:48 | 43.96 | 39.46 | 1,187 | 0.29 | 0.36 | 64.9 |
| 4/30/2015 1:05:48 | 44.29 | 39.79 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 1:05:49 | 44.62 | 40.12 | 1,182 | 0.29 | 0.37 | 64.7 |
| 4/30/2015 1:05:49 | 44.95 | 40.45 | 1,179 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:05:49 | 45.28 | 40.78 | 1,193 | 0.29 | 0.37 | 65.2 |
| 4/30/2015 1:05:50 | 45.60 | 41.10 | 1,193 | 0.29 | 0.37 | 65.2 |
| 4/30/2015 1:05:50 | 45.93 | 41.43 | 1,182 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 1:05:50 | 46.26 | 41.76 | 1,182 | 0.30 | 0.37 | 64.7 |
| 4/30/2015 1:05:50 | 46.59 | 42.09 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/30/2015 1:05:51 | 46.92 | 42.42 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/30/2015 1:05:51 | 47.24 | 42.74 | 1,180 | 0.29 | 0.36 | 64.5 |
| 4/30/2015 1:05:52 | 47.57 | 43.07 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 1:05:52 | 47.90 | 43.40 | 1,188 | 0.29 | 0.36 | 65.0 |
| 4/30/2015 1:05:52 | 48.23 | 43.73 | 1,182 | 0.26 | 0.43 | 64.6 |
| 4/30/2015 1:05:57 | 48.56 | 44.06 | 81 | 4.01 | 0.46 | 4.4 |
| 4/30/2015 1:06:00 | 48.88 | 44.38 | 104 | 3.45 | 0.46 | 5.7 |
| 4/30/2015 1:06:03 | 49.21 | 44.71 | 156 | 3.74 | 0.45 | 8.5 |
| 4/30/2015 1:06:06 | 49.54 | 45.04 | 118 | 3.66 | 0.45 | 6.4 |
| 4/30/2015 1:06:09 | 49.87 | 45.37 | 107 | 3.79 | 0.46 | 5.8 |
| 4/30/2015 1:06:13 | 50.20 | 45.70 | 99 | 3.39 | 0.45 | 5.4 |
| 4/30/2015 1:06:17 | 50.53 | 46.03 | 89 | 2.93 | 0.46 | 4.9 |
| 4/30/2015 1:06:23 | 50.85 | 46.35 | 64 | 3.33 | 0.46 | 3.5 |
| 4/30/2015 1:06:29 | 51.18 | 46.68 | 58 | 3.31 | 0.46 | 3.1 |
| 4/30/2015 1:06:35 | 51.51 | 47.01 | 72 | 3.59 | 0.46 | 4.0 |
| 4/30/2015 1:06:36 | 51.66 | 47.16 | 75 | 3.17 | 0.45 | 4.1 |

## K77 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:03:35

**End Date:**
4/30/2015 1:07:54

**Operator Note:**
'4.5 4.5b Auto Complete'

**Northing:**
362,453.00

**Easting:**
245,448.00

**Tide (feet):**
4.50



## Hole: K78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 1:03:34 | 34.78 | 30.28 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:03:34 | 35.11 | 30.61 | 1,142 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 1:03:35 | 35.43 | 30.93 | 1,142 | 1.14 | 0.29 | 62.4 |
| 4/30/2015 1:03:35 | 35.76 | 31.26 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:35 | 36.09 | 31.59 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:35 | 36.42 | 31.92 | 1,129 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:36 | 36.75 | 32.25 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:03:36 | 37.07 | 32.57 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:03:36 | 37.40 | 32.90 | 1,138 | 1.14 | 0.29 | 62.2 |
| 4/30/2015 1:03:37 | 37.73 | 33.23 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:03:37 | 38.06 | 33.56 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:03:37 | 38.39 | 33.89 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:38 | 38.71 | 34.21 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:38 | 39.04 | 34.54 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/30/2015 1:03:38 | 39.37 | 34.87 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:03:39 | 39.70 | 35.20 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:03:39 | 40.03 | 35.53 | 1,124 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:03:39 | 40.35 | 35.85 | 1,124 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:03:39 | 40.68 | 36.18 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:03:40 | 41.01 | 36.51 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:03:40 | 41.34 | 36.84 | 1,121 | 1.14 | 0.29 | 61.3 |
| 4/30/2015 1:03:40 | 41.67 | 37.17 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/30/2015 1:03:41 | 41.99 | 37.49 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:42 | 42.32 | 37.82 | 1,130 | 1.14 | 0.29 | 61.8 |
| 4/30/2015 1:03:42 | 42.65 | 38.15 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:03:42 | 42.98 | 38.48 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:03:42 | 43.31 | 38.81 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:03:43 | 43.64 | 39.14 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:03:43 | 43.96 | 39.46 | 1,120 | 1.14 | 0.29 | 61.2 |
| 4/30/2015 1:03:43 | 44.29 | 39.79 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 1:03:44 | 44.62 | 40.12 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 1:03:44 | 44.95 | 40.45 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:03:44 | 45.28 | 40.78 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 1:03:45 | 45.60 | 41.10 | 1,110 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 1:03:45 | 45.93 | 41.43 | 1,117 | 1.14 | 0.29 | 61.1 |
| 4/30/2015 1:03:45 | 46.26 | 41.76 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:46 | 46.59 | 42.09 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:46 | 46.92 | 42.42 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:46 | 47.24 | 42.74 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:46 | 47.57 | 43.07 | 1,116 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 1:03:47 | 47.90 | 43.40 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:47 | 48.23 | 43.73 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:47 | 48.56 | 44.06 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 1:03:48 | 48.88 | 44.38 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 1:03:48 | 49.21 | 44.71 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 1:03:48 | 49.54 | 45.04 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 1:03:49 | 49.87 | 45.37 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 1:03:49 | 50.20 | 45.70 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 1:03:49 | 50.53 | 46.03 | 1,104 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 1:04:01 | 50.85 | 46.35 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:04:13 | 51.18 | 46.68 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:04:03 | 51.51 | 47.01 | 273 | 1.14 | 0.29 | 14.9 |
| 4/30/2015 1:04:04 | 51.84 | 47.34 | 466 | 1.14 | 0.29 | 25.5 |
| 4/30/2015 1:04:04 | 52.17 | 47.67 | 466 | 1.14 | 0.29 | 25.5 |
| 4/30/2015 1:04:04 | 52.49 | 47.99 | 413 | 1.14 | 0.29 | 22.6 |
| 4/30/2015 1:04:12 | 52.82 | 48.32 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 1:04:13 | 53.15 | 48.65 | 56 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 1:04:14 | 53.48 | 48.98 | 277 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 1:04:15 | 53.81 | 49.31 | 417 | 1.14 | 0.29 | 22.8 |
| 4/30/2015 1:04:47 | 54.13 | 49.63 | 68 | 1.14 | 0.29 | 3.7 |
| 4/30/2015 1:04:50 | 54.46 | 49.96 | 110 | 1.14 | 0.29 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 1:05:24 | 54.79 | 50.29 | 40 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 | 1:05:27 | 55.12 | 50.62 | 131 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 1:05:30 | 55.45 | 50.95 | 134 | 1.14 | 0.29 | 7.3 |
| 4/30/2015 | 1:05:31 | 55.77 | 51.27 | 180 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 | 1:05:32 | 56.10 | 51.60 | 250 | 1.14 | 0.29 | 13.7 |
| 4/30/2015 | 1:05:48 | 56.43 | 51.93 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 | 1:05:54 | 56.76 | 52.26 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 1:05:55 | 57.09 | 52.59 | 157 | 1.14 | 0.29 | 8.6 |
| 4/30/2015 | 1:05:57 | 57.41 | 52.91 | 230 | 1.14 | 0.29 | 12.6 |
| 4/30/2015 | 1:06:20 | 57.74 | 53.24 | 47 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 | 1:06:25 | 58.07 | 53.57 | 73 | 1.14 | 0.29 | 4.0 |
| 4/30/2015 | 1:06:31 | 58.40 | 53.90 | 61 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 | 1:06:36 | 58.73 | 54.23 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 | 1:06:41 | 59.06 | 54.56 | 81 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 1:06:45 | 59.38 | 54.88 | 99 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 | 1:06:47 | 59.48 | 54.98 | 67 | 1.14 | 0.29 | 3.7 |

## K78 - Summary

**Pattern Number:**
AreaK_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 1:02:33

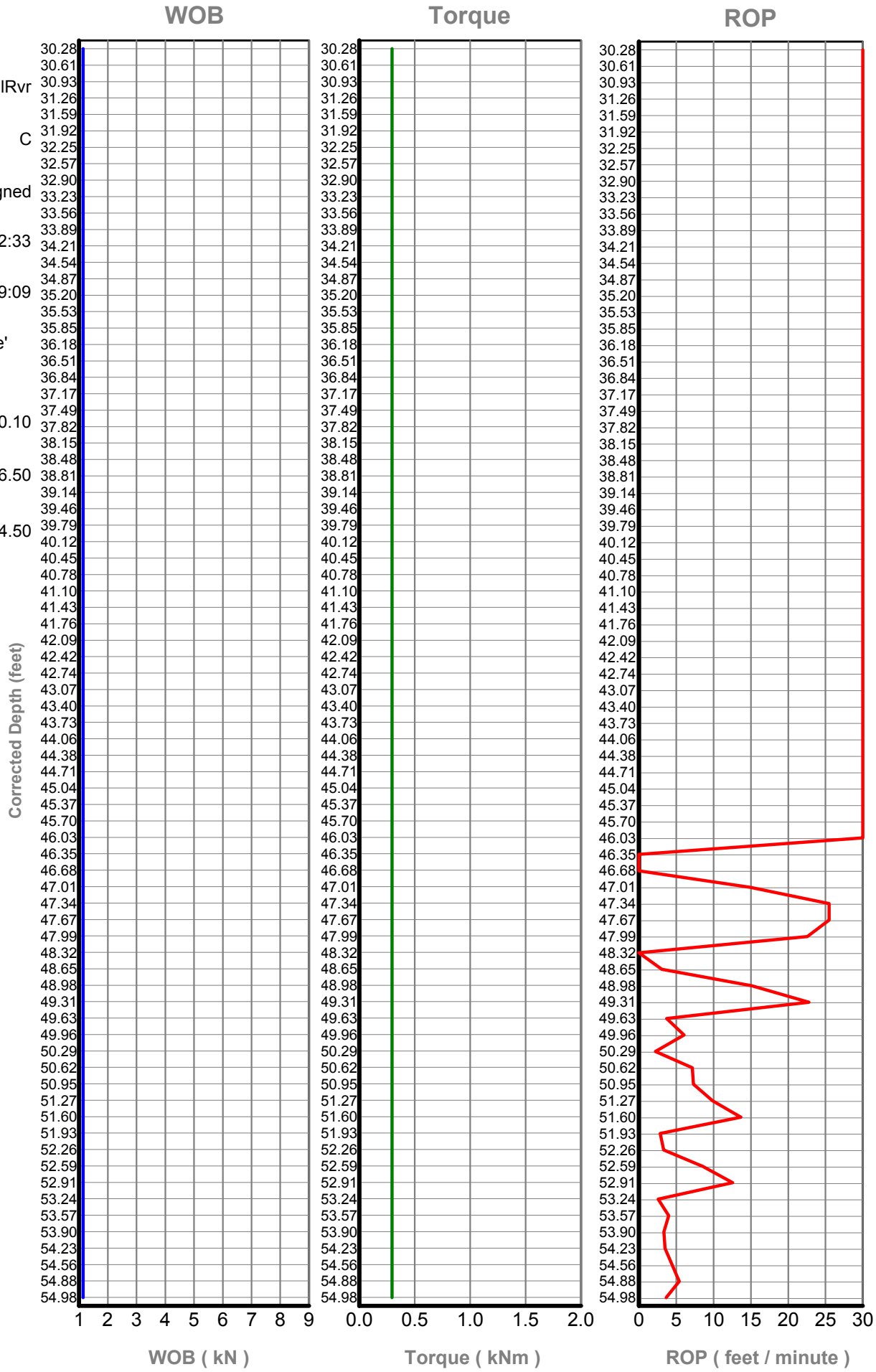
**End Date:**
4/30/2015 1:09:09

**Operator Note:**
'4.5 4.5 c Auto Complete'

**Northing:**
362,500.10

**Easting:**
245,506.50

**Tide (feet):**
4.50



## Hole: K79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:57:44 | 36.42 | 30.12 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 22:57:44 | 36.75 | 30.45 | 795 | 1.05 | 0.18 | 43.5 |
| 4/29/2015 22:57:44 | 37.07 | 30.77 | 802 | 1.07 | 0.18 | 43.8 |
| 4/29/2015 22:57:45 | 37.40 | 31.10 | 807 | 1.05 | 0.18 | 44.1 |
| 4/29/2015 22:57:45 | 37.73 | 31.43 | 812 | 1.04 | 0.18 | 44.4 |
| 4/29/2015 22:57:46 | 38.06 | 31.76 | 812 | 1.07 | 0.18 | 44.4 |
| 4/29/2015 22:57:46 | 38.39 | 32.09 | 815 | 1.07 | 0.19 | 44.6 |
| 4/29/2015 22:57:47 | 38.71 | 32.41 | 815 | 1.07 | 0.19 | 44.6 |
| 4/29/2015 22:57:47 | 39.04 | 32.74 | 818 | 1.07 | 0.19 | 44.7 |
| 4/29/2015 22:57:47 | 39.37 | 33.07 | 817 | 1.09 | 0.19 | 44.7 |
| 4/29/2015 22:57:48 | 39.70 | 33.40 | 806 | 1.08 | 0.19 | 44.1 |
| 4/29/2015 22:57:48 | 40.03 | 33.73 | 796 | 1.06 | 0.19 | 43.5 |
| 4/29/2015 22:57:49 | 40.35 | 34.05 | 785 | 1.05 | 0.18 | 43.0 |
| 4/29/2015 22:57:49 | 40.68 | 34.38 | 790 | 1.07 | 0.18 | 43.2 |
| 4/29/2015 22:57:50 | 41.01 | 34.71 | 790 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 22:57:51 | 41.34 | 35.04 | 790 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 22:57:51 | 41.67 | 35.37 | 793 | 1.05 | 0.18 | 43.3 |
| 4/29/2015 22:57:51 | 41.99 | 35.69 | 803 | 1.04 | 0.18 | 43.9 |
| 4/29/2015 22:57:52 | 42.32 | 36.02 | 808 | 1.06 | 0.18 | 44.2 |
| 4/29/2015 22:57:52 | 42.65 | 36.35 | 806 | 1.05 | 0.18 | 44.1 |
| 4/29/2015 22:57:53 | 42.98 | 36.68 | 796 | 1.03 | 0.18 | 43.5 |
| 4/29/2015 22:57:53 | 43.31 | 37.01 | 804 | 1.05 | 0.18 | 44.0 |
| 4/29/2015 22:57:54 | 43.64 | 37.34 | 804 | 1.05 | 0.18 | 44.0 |
| 4/29/2015 22:57:54 | 43.96 | 37.66 | 799 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 22:57:54 | 44.29 | 37.99 | 804 | 1.03 | 0.18 | 44.0 |
| 4/29/2015 22:57:55 | 44.62 | 38.32 | 799 | 1.06 | 0.18 | 43.7 |
| 4/29/2015 22:57:55 | 44.95 | 38.65 | 802 | 1.06 | 0.18 | 43.8 |
| 4/29/2015 22:57:56 | 45.28 | 38.98 | 804 | 1.09 | 0.18 | 44.0 |
| 4/29/2015 22:57:56 | 45.60 | 39.30 | 804 | 1.09 | 0.18 | 44.0 |
| 4/29/2015 22:57:56 | 45.93 | 39.63 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 22:57:57 | 46.26 | 39.96 | 796 | 1.06 | 0.18 | 43.5 |
| 4/29/2015 22:57:57 | 46.59 | 40.29 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 22:57:58 | 46.92 | 40.62 | 803 | 1.05 | 0.18 | 43.9 |
| 4/29/2015 22:57:58 | 47.24 | 40.94 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 22:57:59 | 47.57 | 41.27 | 798 | 1.06 | 0.18 | 43.6 |
| 4/29/2015 22:58:00 | 47.90 | 41.60 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 22:58:00 | 48.23 | 41.93 | 801 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 22:58:00 | 48.56 | 42.26 | 778 | 1.05 | 0.18 | 42.5 |
| 4/29/2015 22:58:01 | 48.88 | 42.58 | 778 | 1.09 | 0.20 | 42.5 |
| 4/29/2015 22:58:01 | 49.21 | 42.91 | 788 | 1.08 | 0.18 | 43.1 |
| 4/29/2015 22:58:02 | 49.54 | 43.24 | 788 | 1.07 | 0.18 | 43.1 |
| 4/29/2015 22:58:02 | 49.87 | 43.57 | 768 | 1.07 | 0.17 | 42.0 |
| 4/29/2015 22:58:03 | 50.20 | 43.90 | 768 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 22:58:03 | 50.53 | 44.23 | 768 | 1.05 | 0.18 | 42.0 |
| 4/29/2015 22:58:03 | 50.85 | 44.55 | 778 | 1.05 | 0.18 | 42.5 |
| 4/29/2015 22:58:04 | 51.18 | 44.88 | 798 | 1.05 | 0.18 | 43.6 |
| 4/29/2015 22:58:04 | 51.51 | 45.21 | 785 | 1.04 | 0.18 | 42.9 |
| 4/29/2015 22:58:05 | 51.84 | 45.54 | 786 | 1.07 | 0.18 | 43.0 |
| 4/29/2015 22:58:05 | 52.17 | 45.87 | 802 | 1.05 | 0.18 | 43.8 |
| 4/29/2015 22:58:06 | 52.49 | 46.19 | 789 | 1.05 | 0.18 | 43.2 |
| 4/29/2015 22:58:06 | 52.82 | 46.52 | 786 | 1.09 | 0.18 | 43.0 |
| 4/29/2015 22:58:22 | 53.15 | 46.85 | 0 | 1.33 | 0.68 | 0.0 |
| 4/29/2015 22:58:23 | 53.48 | 47.18 | 69 | 1.11 | 1.09 | 3.8 |
| 4/29/2015 22:58:34 | 53.81 | 47.51 | 23 | 0.99 | 1.06 | 1.2 |
| 4/29/2015 22:58:35 | 54.13 | 47.83 | 207 | 1.07 | 0.89 | 11.3 |
| 4/29/2015 22:58:37 | 54.46 | 48.16 | 217 | 1.09 | 1.05 | 11.8 |
| 4/29/2015 22:58:39 | 54.79 | 48.49 | 152 | 1.12 | 1.17 | 8.3 |
| 4/29/2015 22:58:44 | 55.12 | 48.82 | 83 | 1.10 | 1.15 | 4.5 |
| 4/29/2015 22:58:53 | 55.45 | 49.15 | 63 | 1.11 | 1.09 | 3.5 |
| 4/29/2015 22:58:58 | 55.77 | 49.47 | 89 | 1.08 | 1.14 | 4.9 |
| 4/29/2015 22:59:00 | 56.10 | 49.80 | 145 | 0.96 | 0.93 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:59:06 | 56.43 | 50.13 | 57 | 1.01 | 0.89 | 3.1 |
| 4/29/2015 | 22:59:14 | 56.76 | 50.46 | 52 | 1.07 | 0.77 | 2.8 |
| 4/29/2015 | 22:59:22 | 57.09 | 50.79 | 43 | 1.09 | 0.82 | 2.4 |
| 4/29/2015 | 22:59:25 | 57.23 | 50.93 | 43 | 1.30 | 0.84 | 2.4 |

## K79 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:55:30

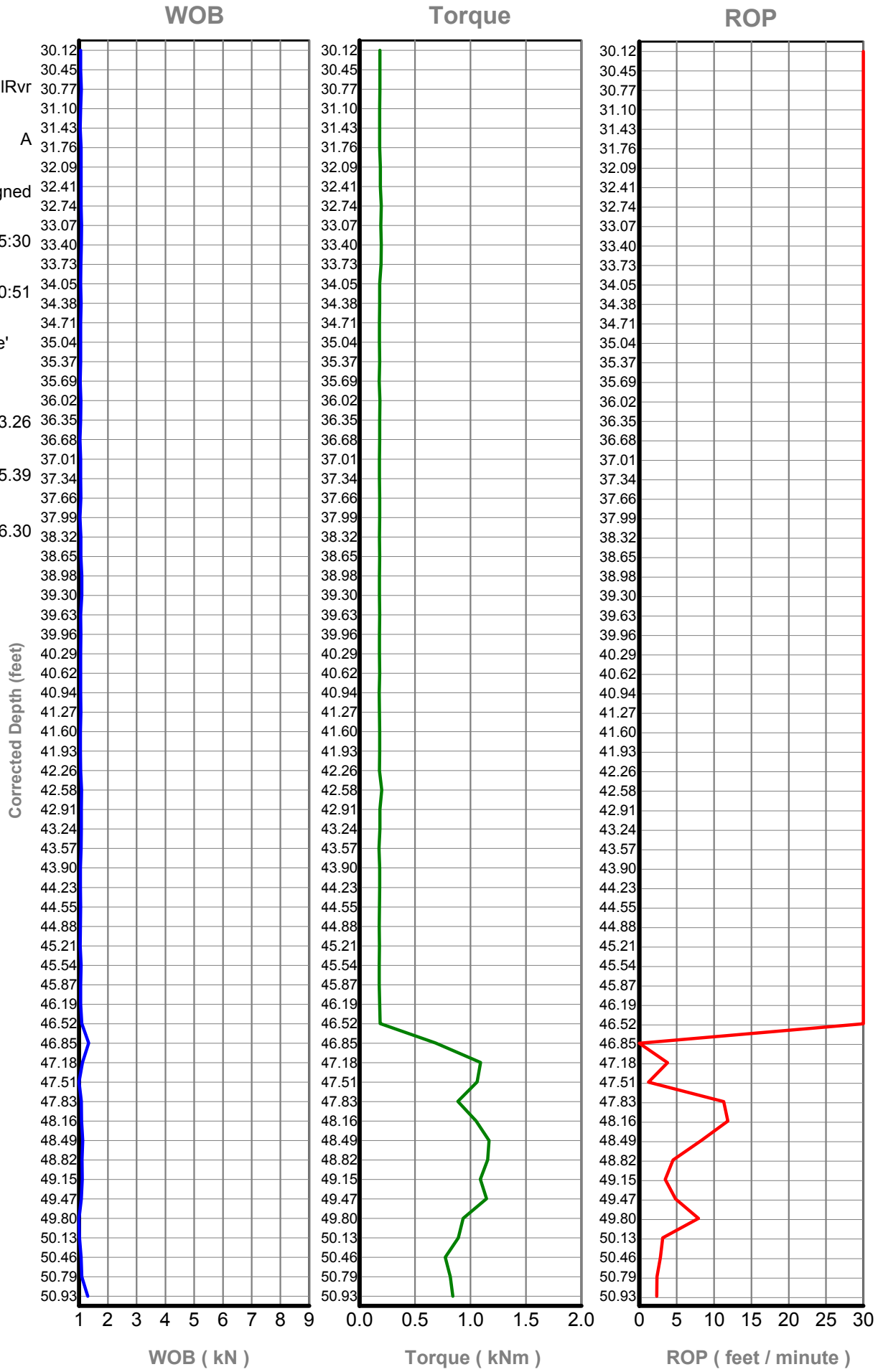
**End Date:**
4/29/2015 23:00:51

**Operator Note:**
'6.3 6.4 b Auto Complete'

**Northing:**
362,553.26

**Easting:**
245,565.39

**Tide (feet):**
6.30



## Hole: K8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 9:46:59 | 36.42 | 30.02 | 899 | 1.16 | 0.40 | 49.2 |
| 4/29/2015 9:46:59 | 36.75 | 30.35 | 896 | 1.15 | 0.37 | 49.0 |
| 4/29/2015 9:47:00 | 37.07 | 30.67 | 896 | 1.15 | 0.37 | 49.0 |
| 4/29/2015 9:47:00 | 37.40 | 31.00 | 896 | 1.15 | 0.40 | 49.0 |
| 4/29/2015 9:47:00 | 37.73 | 31.33 | 889 | 1.15 | 0.40 | 48.6 |
| 4/29/2015 9:47:01 | 38.06 | 31.66 | 903 | 1.13 | 0.40 | 49.4 |
| 4/29/2015 9:47:01 | 38.39 | 31.99 | 909 | 1.15 | 0.40 | 49.7 |
| 4/29/2015 9:47:02 | 38.71 | 32.31 | 909 | 1.15 | 0.40 | 49.7 |
| 4/29/2015 9:47:02 | 39.04 | 32.64 | 903 | 1.15 | 0.41 | 49.4 |
| 4/29/2015 9:47:02 | 39.37 | 32.97 | 898 | 1.34 | 0.33 | 49.1 |
| 4/29/2015 9:47:20 | 39.70 | 33.30 | 0 | 0.52 | 0.85 | 0.0 |
| 4/29/2015 9:47:23 | 40.03 | 33.63 | 121 | 1.04 | 0.79 | 6.6 |
| 4/29/2015 9:47:24 | 40.35 | 33.95 | 163 | 1.05 | 0.81 | 8.9 |
| 4/29/2015 9:47:25 | 40.68 | 34.28 | 227 | 1.08 | 0.96 | 12.4 |
| 4/29/2015 9:47:26 | 41.01 | 34.61 | 291 | 1.06 | 1.09 | 15.9 |
| 4/29/2015 9:47:29 | 41.34 | 34.94 | 124 | 1.09 | 1.05 | 6.8 |
| 4/29/2015 9:47:31 | 41.67 | 35.27 | 141 | 1.07 | 1.14 | 7.7 |
| 4/29/2015 9:47:34 | 41.99 | 35.59 | 78 | 1.05 | 0.94 | 4.3 |
| 4/29/2015 9:47:36 | 42.32 | 35.92 | 243 | 1.09 | 0.91 | 13.3 |
| 4/29/2015 9:47:38 | 42.65 | 36.25 | 190 | 1.04 | 1.04 | 10.4 |
| 4/29/2015 9:47:42 | 42.98 | 36.58 | 71 | 1.06 | 1.03 | 3.9 |
| 4/29/2015 9:47:45 | 43.31 | 36.91 | 101 | 1.08 | 1.02 | 5.5 |
| 4/29/2015 9:47:48 | 43.64 | 37.24 | 115 | 1.05 | 1.17 | 6.3 |
| 4/29/2015 9:47:51 | 43.96 | 37.56 | 130 | 1.05 | 1.24 | 7.1 |
| 4/29/2015 9:47:58 | 44.29 | 37.89 | 37 | 1.05 | 1.26 | 2.0 |
| 4/29/2015 9:48:04 | 44.62 | 38.22 | 72 | 1.10 | 0.94 | 4.0 |
| 4/29/2015 9:48:08 | 44.95 | 38.55 | 108 | 1.05 | 1.02 | 5.9 |
| 4/29/2015 9:48:10 | 45.28 | 38.88 | 174 | 0.93 | 0.91 | 9.5 |
| 4/29/2015 9:48:12 | 45.60 | 39.20 | 160 | 0.94 | 0.99 | 8.7 |
| 4/29/2015 9:48:14 | 45.93 | 39.53 | 160 | 1.00 | 0.98 | 8.8 |
| 4/29/2015 9:48:18 | 46.26 | 39.86 | 81 | 1.00 | 0.91 | 4.5 |
| 4/29/2015 9:48:24 | 46.59 | 40.19 | 61 | 0.97 | 1.08 | 3.3 |
| 4/29/2015 9:48:32 | 46.92 | 40.52 | 38 | 1.00 | 0.98 | 2.1 |
| 4/29/2015 9:48:39 | 47.24 | 40.84 | 61 | 1.04 | 1.07 | 3.3 |
| 4/29/2015 9:48:45 | 47.57 | 41.17 | 66 | 1.03 | 1.10 | 3.6 |
| 4/29/2015 9:48:51 | 47.84 | 41.44 | 40 | 0.52 | 0.98 | 2.2 |

## K8 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:45:27

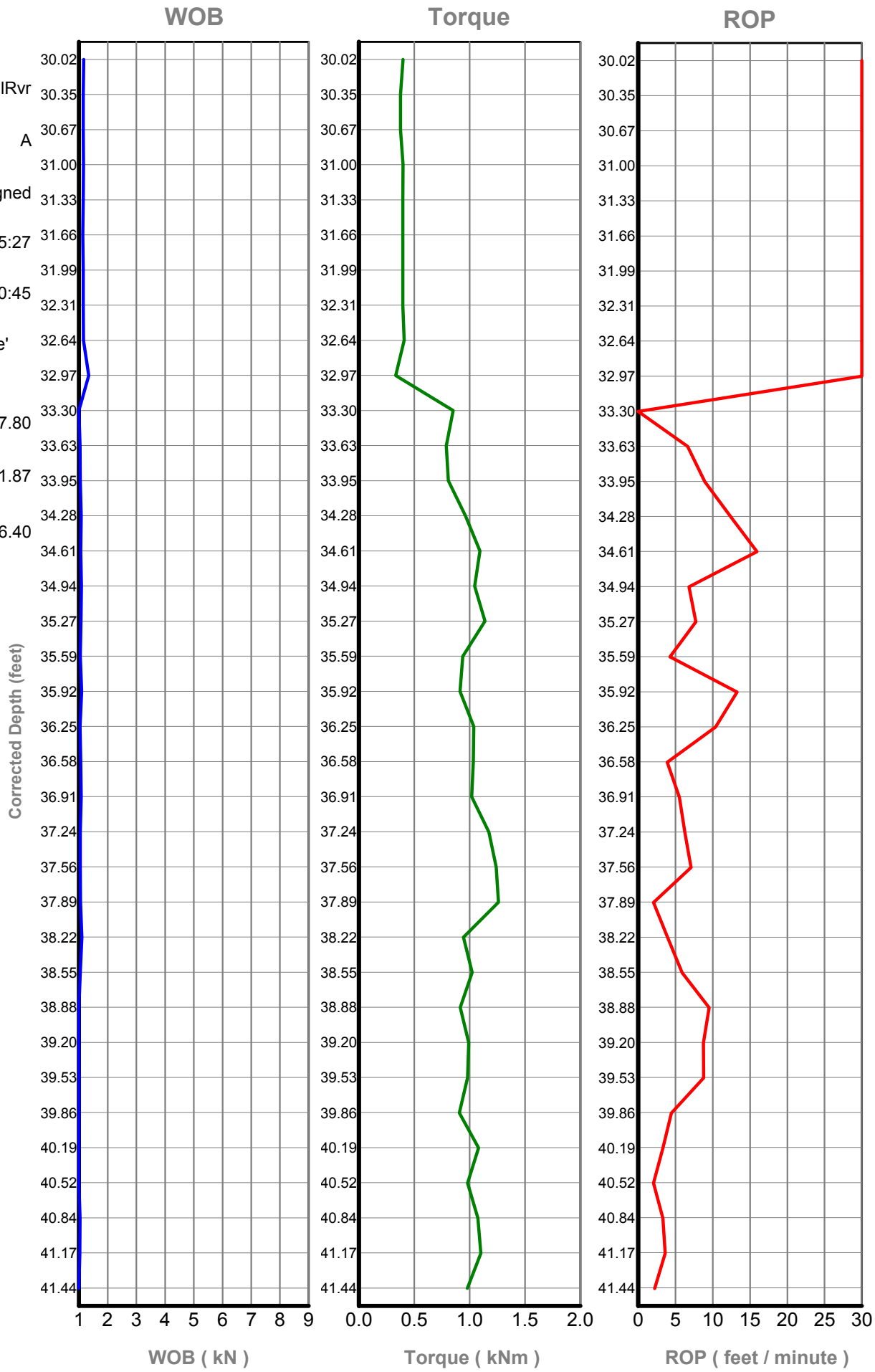
**End Date:**
4/29/2015 9:50:45

**Operator Note:**
'6.4 6.3 a Auto Complete'

**Northing:**
362,177.80

**Easting:**
244,731.87

**Tide (feet):**
6.40



## Hole: K80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:58:24 | 36.42 | 30.12 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/29/2015 22:58:24 | 36.75 | 30.45 | 1,067 | 0.35 | 0.39 | 58.3 |
| 4/29/2015 22:58:24 | 37.07 | 30.77 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/29/2015 22:58:25 | 37.40 | 31.10 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:25 | 37.73 | 31.43 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:25 | 38.06 | 31.76 | 1,046 | 0.35 | 0.37 | 57.2 |
| 4/29/2015 22:58:26 | 38.39 | 32.09 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/29/2015 22:58:27 | 38.71 | 32.41 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/29/2015 22:58:26 | 39.04 | 32.74 | 1,035 | 0.35 | 0.38 | 56.6 |
| 4/29/2015 22:58:27 | 39.37 | 33.07 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/29/2015 22:58:28 | 39.70 | 33.40 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/29/2015 22:58:28 | 40.03 | 33.73 | 1,059 | 0.35 | 0.39 | 57.9 |
| 4/29/2015 22:58:28 | 40.35 | 34.05 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:29 | 40.68 | 34.38 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:29 | 41.01 | 34.71 | 1,036 | 0.35 | 0.38 | 56.6 |
| 4/29/2015 22:58:29 | 41.34 | 35.04 | 1,036 | 0.35 | 0.38 | 56.6 |
| 4/29/2015 22:58:29 | 41.67 | 35.37 | 1,064 | 0.35 | 0.38 | 58.2 |
| 4/29/2015 22:58:30 | 41.99 | 35.69 | 1,055 | 0.35 | 0.39 | 57.7 |
| 4/29/2015 22:58:30 | 42.32 | 36.02 | 1,055 | 0.35 | 0.39 | 57.7 |
| 4/29/2015 22:58:30 | 42.65 | 36.35 | 1,036 | 0.35 | 0.38 | 56.7 |
| 4/29/2015 22:58:31 | 42.98 | 36.68 | 1,036 | 0.35 | 0.39 | 56.7 |
| 4/29/2015 22:58:31 | 43.31 | 37.01 | 1,036 | 0.35 | 0.39 | 56.7 |
| 4/29/2015 22:58:31 | 43.64 | 37.34 | 1,071 | 0.35 | 0.38 | 58.6 |
| 4/29/2015 22:58:32 | 43.96 | 37.66 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:32 | 44.29 | 37.99 | 1,046 | 0.35 | 0.38 | 57.2 |
| 4/29/2015 22:58:32 | 44.62 | 38.32 | 1,046 | 0.35 | 0.39 | 57.2 |
| 4/29/2015 22:58:33 | 44.95 | 38.65 | 1,032 | 0.35 | 0.38 | 56.4 |
| 4/29/2015 22:58:33 | 45.28 | 38.98 | 1,032 | 0.35 | 0.38 | 56.4 |
| 4/29/2015 22:58:33 | 45.60 | 39.30 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/29/2015 22:58:34 | 45.93 | 39.63 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/29/2015 22:58:34 | 46.26 | 39.96 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/29/2015 22:58:34 | 46.59 | 40.29 | 1,053 | 0.35 | 0.39 | 57.6 |
| 4/29/2015 22:58:35 | 46.92 | 40.62 | 1,048 | 0.35 | 0.39 | 57.3 |
| 4/29/2015 22:58:35 | 47.24 | 40.94 | 1,048 | 0.35 | 0.39 | 57.3 |
| 4/29/2015 22:58:35 | 47.57 | 41.27 | 1,076 | 0.35 | 0.39 | 58.8 |
| 4/29/2015 22:58:36 | 47.90 | 41.60 | 1,076 | 0.35 | 0.39 | 58.8 |
| 4/29/2015 22:58:36 | 48.23 | 41.93 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/29/2015 22:58:36 | 48.56 | 42.26 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/29/2015 22:58:37 | 48.88 | 42.58 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/29/2015 22:58:37 | 49.21 | 42.91 | 1,049 | 0.35 | 0.39 | 57.4 |
| 4/29/2015 22:58:38 | 49.54 | 43.24 | 1,058 | 0.35 | 0.38 | 57.9 |
| 4/29/2015 22:58:38 | 49.87 | 43.57 | 1,058 | 0.35 | 0.38 | 57.9 |
| 4/29/2015 22:58:38 | 50.20 | 43.90 | 1,051 | 0.35 | 0.39 | 57.5 |
| 4/29/2015 22:58:39 | 50.53 | 44.23 | 1,036 | 0.35 | 0.39 | 56.7 |
| 4/29/2015 22:58:39 | 50.85 | 44.55 | 1,036 | 0.35 | 0.39 | 56.7 |
| 4/29/2015 22:58:39 | 51.18 | 44.88 | 1,066 | 0.35 | 0.38 | 58.3 |
| 4/29/2015 22:58:40 | 51.51 | 45.21 | 1,069 | 0.33 | 0.41 | 58.5 |
| 4/29/2015 22:58:40 | 51.84 | 45.54 | 1,069 | 0.33 | 0.41 | 58.5 |
| 4/29/2015 22:58:45 | 52.17 | 45.87 | 87 | 3.86 | 0.46 | 4.8 |
| 4/29/2015 22:58:47 | 52.49 | 46.19 | 150 | 3.45 | 0.46 | 8.2 |
| 4/29/2015 22:58:50 | 52.82 | 46.52 | 156 | 3.81 | 0.46 | 8.5 |
| 4/29/2015 22:58:52 | 53.15 | 46.85 | 133 | 4.10 | 0.47 | 7.3 |
| 4/29/2015 22:58:55 | 53.48 | 47.18 | 107 | 4.16 | 0.46 | 5.8 |
| 4/29/2015 22:58:59 | 53.81 | 47.51 | 104 | 3.87 | 0.47 | 5.7 |
| 4/29/2015 22:59:03 | 54.13 | 47.83 | 81 | 3.30 | 0.47 | 4.4 |
| 4/29/2015 22:59:07 | 54.46 | 48.16 | 91 | 3.84 | 0.47 | 5.0 |
| 4/29/2015 22:59:11 | 54.79 | 48.49 | 108 | 3.68 | 0.47 | 5.9 |
| 4/29/2015 22:59:14 | 55.12 | 48.82 | 97 | 3.67 | 0.48 | 5.3 |
| 4/29/2015 22:59:18 | 55.45 | 49.15 | 96 | 3.87 | 0.47 | 5.2 |
| 4/29/2015 22:59:21 | 55.77 | 49.47 | 115 | 3.85 | 0.47 | 6.3 |
| 4/29/2015 22:59:25 | 56.10 | 49.80 | 91 | 3.48 | 0.47 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:59:28 | 56.43 | 50.13 | 90 | 3.91 | 0.47 | 4.9 |
| 4/29/2015 | 22:59:33 | 56.76 | 50.46 | 84 | 4.00 | 0.47 | 4.6 |
| 4/29/2015 | 22:59:37 | 57.09 | 50.79 | 93 | 3.86 | 0.47 | 5.1 |
| 4/29/2015 | 22:59:42 | 57.41 | 51.11 | 79 | 4.02 | 0.47 | 4.3 |
| 4/29/2015 | 22:59:46 | 57.74 | 51.44 | 81 | 3.76 | 0.47 | 4.4 |
| 4/29/2015 | 22:59:50 | 58.07 | 51.77 | 79 | 3.86 | 0.47 | 4.3 |
| 4/29/2015 | 22:59:55 | 58.40 | 52.10 | 72 | 3.32 | 0.47 | 4.0 |
| 4/29/2015 | 23:00:00 | 58.73 | 52.43 | 69 | 3.40 | 0.47 | 3.8 |
| 4/29/2015 | 23:00:04 | 59.06 | 52.76 | 110 | 4.28 | 0.47 | 6.0 |
| 4/29/2015 | 23:00:07 | 59.38 | 53.08 | 112 | 3.50 | 0.46 | 6.1 |
| 4/29/2015 | 23:00:11 | 59.71 | 53.41 | 96 | 4.05 | 0.47 | 5.3 |
| 4/29/2015 | 23:00:14 | 60.04 | 53.74 | 106 | 4.07 | 0.47 | 5.8 |
| 4/29/2015 | 23:00:18 | 60.37 | 54.07 | 96 | 4.02 | 0.47 | 5.3 |
| 4/29/2015 | 23:00:22 | 60.70 | 54.40 | 95 | 3.70 | 0.47 | 5.2 |
| 4/29/2015 | 23:00:24 | 61.02 | 54.72 | 163 | 2.99 | 0.44 | 8.9 |
| 4/29/2015 | 23:00:24 | 61.35 | 55.05 | 231 | 2.96 | 0.45 | 12.6 |
| 4/29/2015 | 23:00:25 | 61.50 | 55.20 | 265 | 3.05 | 0.47 | 14.5 |

## K80 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:56:47

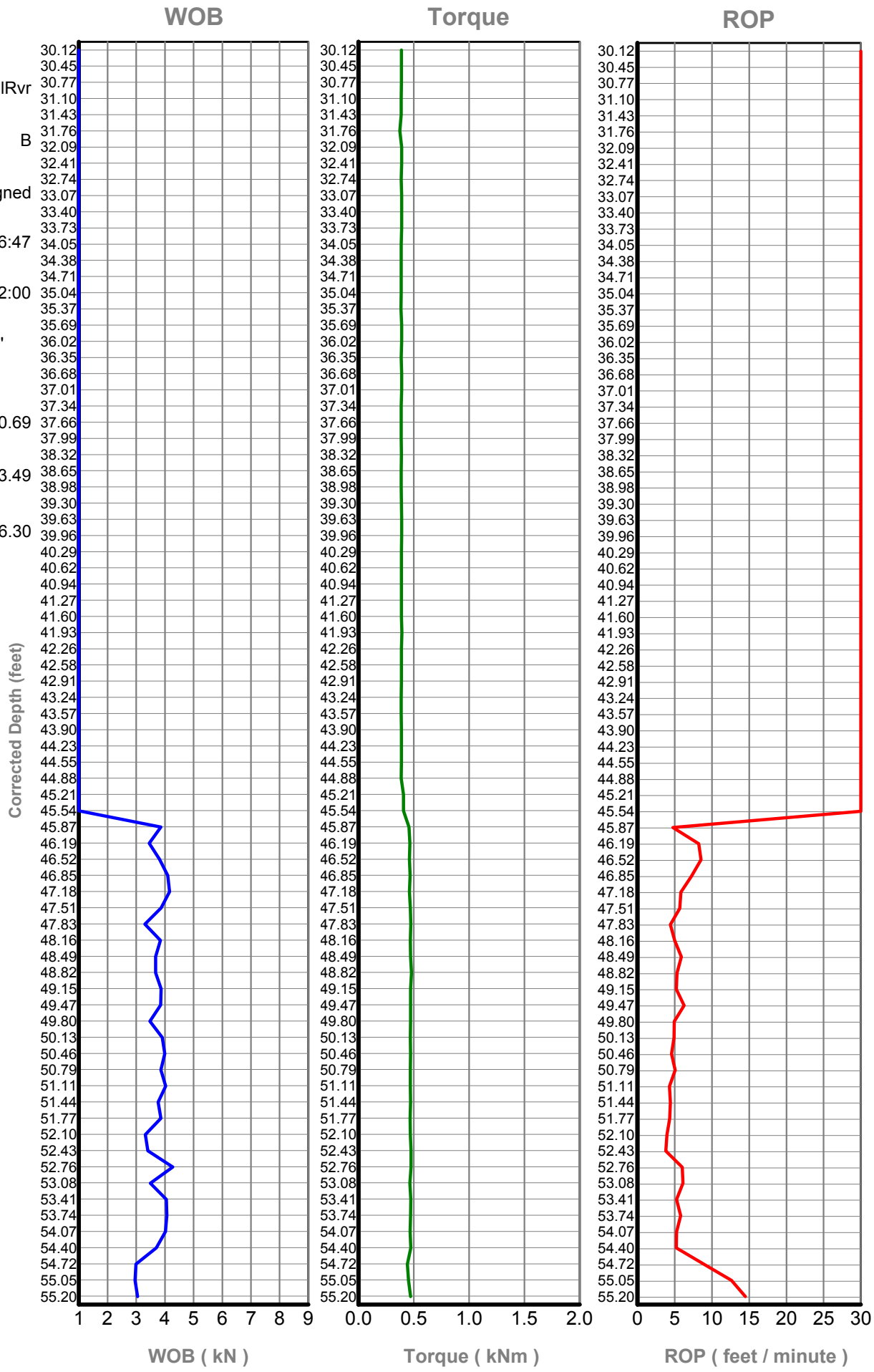
**End Date:**
4/29/2015 23:02:00

**Operator Note:**
'6.3 6.3b Auto Complete'

**Northing:**
362,600.69

**Easting:**
245,623.49

**Tide (feet):**
6.30



## Hole: K81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:56:58 | 36.42 | 30.12 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:56:58 | 36.75 | 30.45 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:56:58 | 37.07 | 30.77 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:56:59 | 37.40 | 31.10 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:56:59 | 37.73 | 31.43 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/29/2015 22:56:59 | 38.06 | 31.76 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:00 | 38.39 | 32.09 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:00 | 38.71 | 32.41 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:00 | 39.04 | 32.74 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 22:57:01 | 39.37 | 33.07 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/29/2015 22:57:01 | 39.70 | 33.40 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:01 | 40.03 | 33.73 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:57:02 | 40.35 | 34.05 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:57:02 | 40.68 | 34.38 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/29/2015 22:57:02 | 41.01 | 34.71 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:57:03 | 41.34 | 35.04 | 1,095 | 1.14 | 0.29 | 59.9 |
| 4/29/2015 22:57:03 | 41.67 | 35.37 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:03 | 41.99 | 35.69 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:04 | 42.32 | 36.02 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:04 | 42.65 | 36.35 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:05 | 42.98 | 36.68 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/29/2015 22:57:05 | 43.31 | 37.01 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/29/2015 22:57:05 | 43.64 | 37.34 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:57:06 | 43.96 | 37.66 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:57:06 | 44.29 | 37.99 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:06 | 44.62 | 38.32 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:07 | 44.95 | 38.65 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:07 | 45.28 | 38.98 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:07 | 45.60 | 39.30 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 22:57:08 | 45.93 | 39.63 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/29/2015 22:57:08 | 46.26 | 39.96 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 22:57:08 | 46.59 | 40.29 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/29/2015 22:57:08 | 46.92 | 40.62 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:09 | 47.24 | 40.94 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:09 | 47.57 | 41.27 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:09 | 47.90 | 41.60 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/29/2015 22:57:10 | 48.23 | 41.93 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:57:10 | 48.56 | 42.26 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:57:10 | 48.88 | 42.58 | 1,076 | 1.14 | 0.29 | 58.9 |
| 4/29/2015 22:57:11 | 49.21 | 42.91 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:57:11 | 49.54 | 43.24 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/29/2015 22:57:11 | 49.87 | 43.57 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:57:12 | 50.20 | 43.90 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/29/2015 22:57:12 | 50.53 | 44.23 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/29/2015 22:57:12 | 50.85 | 44.55 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 22:57:13 | 51.18 | 44.88 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 22:57:13 | 51.51 | 45.21 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/29/2015 22:57:28 | 51.84 | 45.54 | 73 | 1.14 | 0.29 | 4.0 |
| 4/29/2015 22:57:34 | 52.17 | 45.87 | 49 | 1.14 | 0.29 | 2.7 |
| 4/29/2015 22:57:42 | 52.49 | 46.19 | 52 | 1.14 | 0.29 | 2.9 |
| 4/29/2015 22:57:47 | 52.82 | 46.52 | 63 | 1.14 | 0.29 | 3.5 |
| 4/29/2015 22:57:53 | 53.15 | 46.85 | 79 | 1.14 | 0.29 | 4.3 |
| 4/29/2015 22:57:54 | 53.30 | 47.00 | 102 | 1.14 | 0.29 | 5.6 |

## K81 - Summary

**Pattern Number:**
AreaK_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:55:58

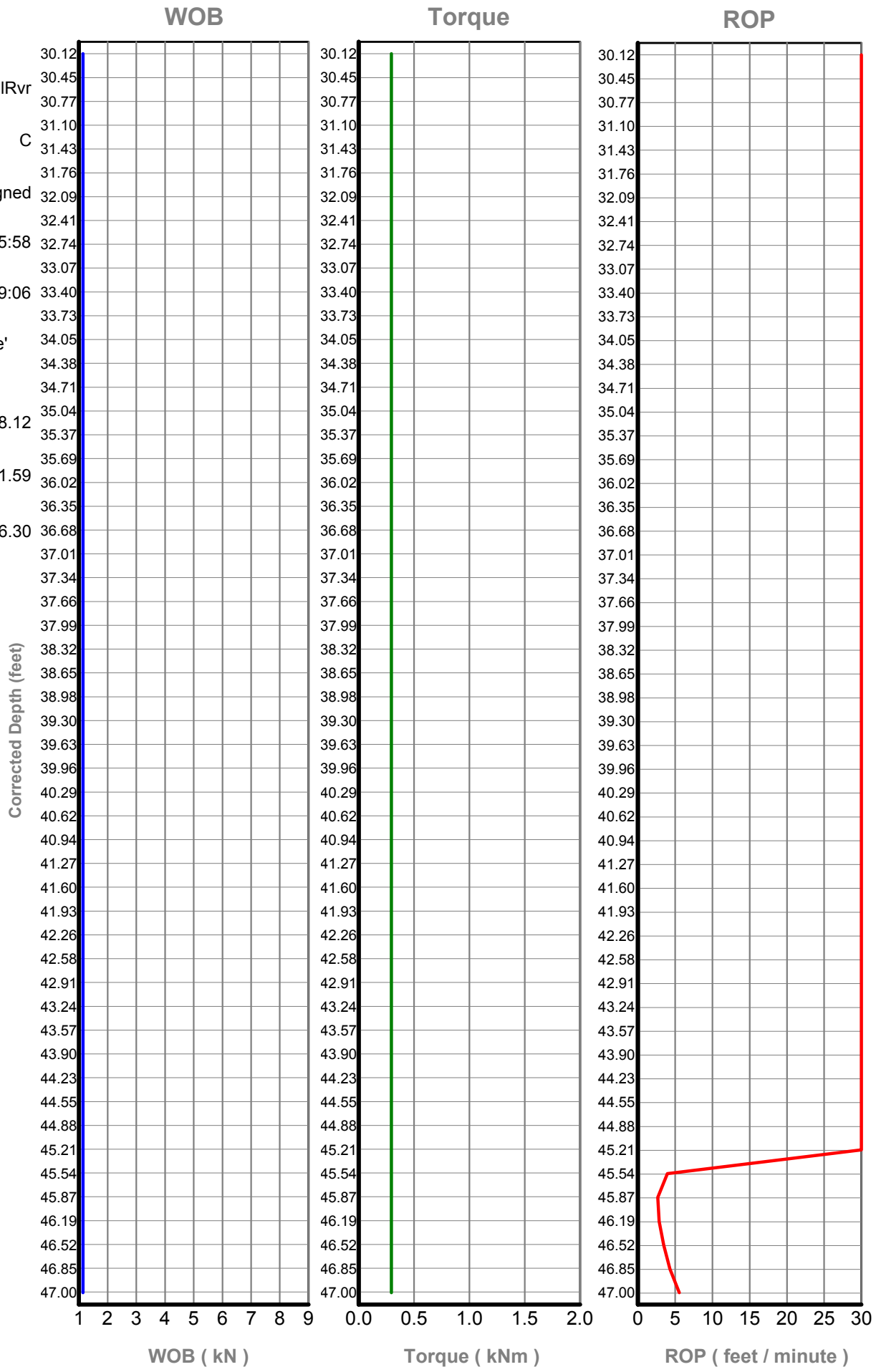
**End Date:**
4/29/2015 22:59:06

**Operator Note:**
'6.3 6.3 c Auto Complete'

**Northing:**
362,648.12

**Easting:**
245,681.59

**Tide (feet):**
6.30



## Hole: K82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:15:30 | 36.42 | 30.02 | 755 | 1.09 | 0.19 | 41.3 |
| 4/29/2015 22:15:31 | 36.75 | 30.35 | 755 | 1.07 | 0.19 | 41.3 |
| 4/29/2015 22:15:31 | 37.07 | 30.67 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 22:15:32 | 37.40 | 31.00 | 754 | 1.08 | 0.19 | 41.3 |
| 4/29/2015 22:15:32 | 37.73 | 31.33 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 22:15:33 | 38.06 | 31.66 | 757 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 22:15:33 | 38.39 | 31.99 | 753 | 1.08 | 0.19 | 41.2 |
| 4/29/2015 22:15:33 | 38.71 | 32.31 | 760 | 1.09 | 0.19 | 41.6 |
| 4/29/2015 22:15:34 | 39.04 | 32.64 | 748 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 22:15:34 | 39.37 | 32.97 | 748 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 22:15:35 | 39.70 | 33.30 | 746 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 22:15:35 | 40.03 | 33.63 | 755 | 1.08 | 0.19 | 41.3 |
| 4/29/2015 22:15:36 | 40.35 | 33.95 | 768 | 1.09 | 0.19 | 42.0 |
| 4/29/2015 22:15:36 | 40.68 | 34.28 | 745 | 1.08 | 0.19 | 40.8 |
| 4/29/2015 22:15:37 | 41.01 | 34.61 | 764 | 1.07 | 0.19 | 41.8 |
| 4/29/2015 22:15:37 | 41.34 | 34.94 | 774 | 1.09 | 0.19 | 42.3 |
| 4/29/2015 22:15:38 | 41.67 | 35.27 | 774 | 1.09 | 0.19 | 42.3 |
| 4/29/2015 22:15:38 | 41.99 | 35.59 | 762 | 1.08 | 0.19 | 41.6 |
| 4/29/2015 22:15:38 | 42.32 | 35.92 | 754 | 1.08 | 0.19 | 41.2 |
| 4/29/2015 22:15:39 | 42.65 | 36.25 | 769 | 1.08 | 0.19 | 42.0 |
| 4/29/2015 22:15:40 | 42.98 | 36.58 | 751 | 1.09 | 0.19 | 41.1 |
| 4/29/2015 22:15:40 | 43.31 | 36.91 | 734 | 1.07 | 0.19 | 40.2 |
| 4/29/2015 22:15:41 | 43.64 | 37.24 | 739 | 1.07 | 0.20 | 40.4 |
| 4/29/2015 22:15:41 | 43.96 | 37.56 | 739 | 1.09 | 0.19 | 40.4 |
| 4/29/2015 22:15:42 | 44.29 | 37.89 | 751 | 1.07 | 0.19 | 41.1 |
| 4/29/2015 22:15:42 | 44.62 | 38.22 | 749 | 1.09 | 0.19 | 40.9 |
| 4/29/2015 22:15:43 | 44.95 | 38.55 | 749 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 22:15:43 | 45.28 | 38.88 | 749 | 1.08 | 0.19 | 40.9 |
| 4/29/2015 22:15:43 | 45.60 | 39.20 | 756 | 1.09 | 0.19 | 41.3 |
| 4/29/2015 22:15:44 | 45.93 | 39.53 | 761 | 1.07 | 0.19 | 41.6 |
| 4/29/2015 22:15:44 | 46.26 | 39.86 | 744 | 1.07 | 0.19 | 40.7 |
| 4/29/2015 22:15:45 | 46.59 | 40.19 | 744 | 1.07 | 0.19 | 40.7 |
| 4/29/2015 22:15:45 | 46.92 | 40.52 | 737 | 1.07 | 0.19 | 40.3 |
| 4/29/2015 22:15:46 | 47.24 | 40.84 | 758 | 1.09 | 0.19 | 41.4 |
| 4/29/2015 22:15:46 | 47.57 | 41.17 | 740 | 1.09 | 0.19 | 40.5 |
| 4/29/2015 22:15:47 | 47.90 | 41.50 | 740 | 1.08 | 0.19 | 40.5 |
| 4/29/2015 22:15:47 | 48.23 | 41.83 | 737 | 1.09 | 0.19 | 40.3 |
| 4/29/2015 22:15:48 | 48.56 | 42.16 | 753 | 1.08 | 0.19 | 41.2 |
| 4/29/2015 22:15:48 | 48.88 | 42.48 | 748 | 1.07 | 0.19 | 40.9 |
| 4/29/2015 22:15:49 | 49.21 | 42.81 | 732 | 1.13 | 0.18 | 40.0 |
| 4/29/2015 22:16:11 | 49.54 | 43.14 | 50 | 1.03 | 0.96 | 2.8 |
| 4/29/2015 22:16:14 | 49.87 | 43.47 | 100 | 1.03 | 1.16 | 5.5 |
| 4/29/2015 22:16:21 | 50.20 | 43.80 | 54 | 1.07 | 1.08 | 3.0 |
| 4/29/2015 22:16:25 | 50.53 | 44.13 | 89 | 1.09 | 1.17 | 4.8 |
| 4/29/2015 22:16:28 | 50.85 | 44.45 | 115 | 1.06 | 1.15 | 6.3 |
| 4/29/2015 22:16:30 | 51.18 | 44.78 | 135 | 1.11 | 1.18 | 7.4 |
| 4/29/2015 22:16:34 | 51.51 | 45.11 | 106 | 1.08 | 1.01 | 5.8 |
| 4/29/2015 22:16:38 | 51.84 | 45.44 | 81 | 1.05 | 1.03 | 4.4 |
| 4/29/2015 22:16:42 | 52.17 | 45.77 | 69 | 1.05 | 1.00 | 3.8 |
| 4/29/2015 22:16:50 | 52.49 | 46.09 | 53 | 1.01 | 1.03 | 2.9 |
| 4/29/2015 22:16:54 | 52.82 | 46.42 | 84 | 1.01 | 1.41 | 4.6 |
| 4/29/2015 22:16:56 | 53.15 | 46.75 | 182 | 1.00 | 1.18 | 10.0 |
| 4/29/2015 22:16:58 | 53.48 | 47.08 | 138 | 1.04 | 1.18 | 7.5 |
| 4/29/2015 22:17:01 | 53.81 | 47.41 | 122 | 1.02 | 1.11 | 6.7 |
| 4/29/2015 22:17:04 | 54.13 | 47.73 | 114 | 1.11 | 1.13 | 6.2 |
| 4/29/2015 22:17:18 | 54.46 | 48.06 | 26 | 0.97 | 1.06 | 1.4 |
| 4/29/2015 22:17:24 | 54.79 | 48.39 | 56 | 1.05 | 1.07 | 3.1 |
| 4/29/2015 22:17:30 | 55.12 | 48.72 | 59 | 1.03 | 0.99 | 3.2 |
| 4/29/2015 22:17:33 | 55.45 | 49.05 | 82 | 0.97 | 1.02 | 4.5 |
| 4/29/2015 22:17:37 | 55.77 | 49.37 | 113 | 1.02 | 0.92 | 6.2 |
| 4/29/2015 22:17:44 | 56.10 | 49.70 | 46 | 1.09 | 0.97 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:17:49 | 56.43 | 50.03 | 63 | 1.02 | 0.94 | 3.4 |
| 4/29/2015 | 22:17:54 | 56.76 | 50.36 | 90 | 1.01 | 1.05 | 4.9 |
| 4/29/2015 | 22:17:57 | 57.09 | 50.69 | 121 | 0.96 | 1.11 | 6.6 |
| 4/29/2015 | 22:18:02 | 57.41 | 51.01 | 57 | 1.03 | 0.92 | 3.1 |
| 4/29/2015 | 22:18:09 | 57.74 | 51.34 | 55 | 0.96 | 1.01 | 3.0 |
| 4/29/2015 | 22:18:14 | 58.07 | 51.67 | 62 | 1.04 | 1.13 | 3.4 |
| 4/29/2015 | 22:18:21 | 58.40 | 52.00 | 38 | 1.05 | 0.77 | 2.1 |
| 4/29/2015 | 22:18:31 | 58.73 | 52.33 | 33 | 1.02 | 0.79 | 1.8 |
| 4/29/2015 | 22:18:42 | 59.06 | 52.66 | 35 | 1.09 | 1.04 | 1.9 |
| 4/29/2015 | 22:18:53 | 59.09 | 52.69 | 0 | 1.86 | 0.69 | 0.0 |

## K82 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:12:49

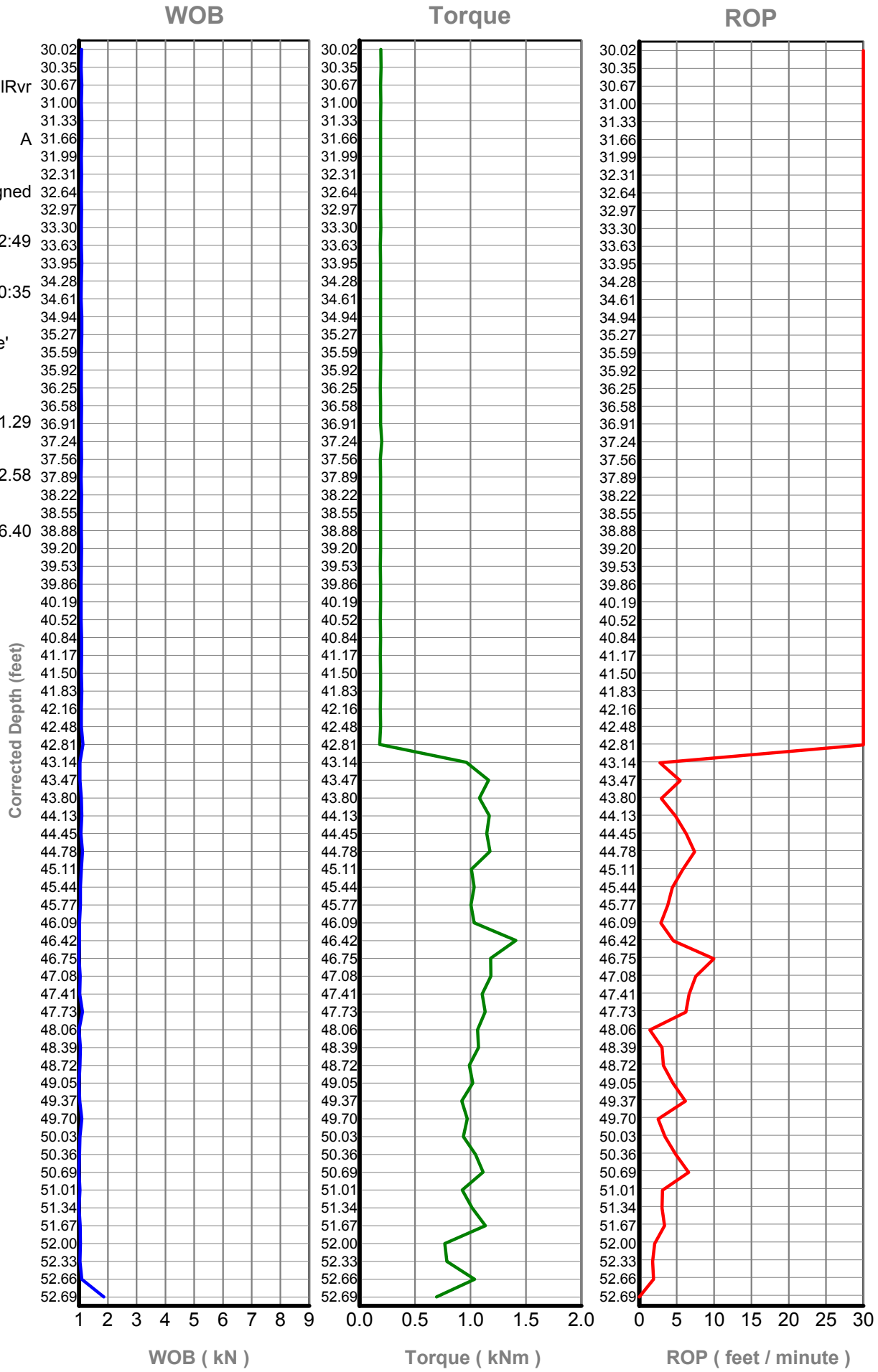
**End Date:**
4/29/2015 22:20:35

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
362,691.29

**Easting:**
245,742.58

**Tide (feet):**
6.40



## Hole: K83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:15:41 | 36.42 | 30.02 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/29/2015 22:15:41 | 36.75 | 30.35 | 1,107 | 0.34 | 0.38 | 60.5 |
| 4/29/2015 22:15:42 | 37.07 | 30.67 | 1,107 | 0.34 | 0.38 | 60.5 |
| 4/29/2015 22:15:42 | 37.40 | 31.00 | 1,113 | 0.34 | 0.39 | 60.9 |
| 4/29/2015 22:15:42 | 37.73 | 31.33 | 1,113 | 0.34 | 0.39 | 60.9 |
| 4/29/2015 22:15:42 | 38.06 | 31.66 | 1,113 | 0.33 | 0.39 | 60.9 |
| 4/29/2015 22:15:43 | 38.39 | 31.99 | 1,119 | 0.34 | 0.38 | 61.2 |
| 4/29/2015 22:15:43 | 38.71 | 32.31 | 1,119 | 0.34 | 0.38 | 61.2 |
| 4/29/2015 22:15:43 | 39.04 | 32.64 | 1,112 | 0.34 | 0.39 | 60.8 |
| 4/29/2015 22:15:44 | 39.37 | 32.97 | 1,112 | 0.34 | 0.39 | 60.8 |
| 4/29/2015 22:15:44 | 39.70 | 33.30 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:15:44 | 40.03 | 33.63 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:15:45 | 40.35 | 33.95 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/29/2015 22:15:45 | 40.68 | 34.28 | 1,122 | 0.34 | 0.38 | 61.3 |
| 4/29/2015 22:15:46 | 41.01 | 34.61 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 22:15:46 | 41.34 | 34.94 | 1,104 | 0.33 | 0.38 | 60.4 |
| 4/29/2015 22:15:46 | 41.67 | 35.27 | 1,104 | 0.34 | 0.38 | 60.4 |
| 4/29/2015 22:15:47 | 41.99 | 35.59 | 1,104 | 0.34 | 0.38 | 60.4 |
| 4/29/2015 22:15:47 | 42.32 | 35.92 | 1,117 | 0.34 | 0.38 | 61.1 |
| 4/29/2015 22:15:47 | 42.65 | 36.25 | 1,107 | 0.33 | 0.38 | 60.6 |
| 4/29/2015 22:15:48 | 42.98 | 36.58 | 1,107 | 0.33 | 0.38 | 60.6 |
| 4/29/2015 22:15:48 | 43.31 | 36.91 | 1,104 | 0.36 | 0.37 | 60.4 |
| 4/29/2015 22:15:48 | 43.64 | 37.24 | 1,104 | 0.36 | 0.37 | 60.4 |
| 4/29/2015 22:15:48 | 43.96 | 37.56 | 1,111 | 0.37 | 0.39 | 60.7 |
| 4/29/2015 22:15:49 | 44.29 | 37.89 | 1,125 | 0.37 | 0.38 | 61.5 |
| 4/29/2015 22:15:49 | 44.62 | 38.22 | 1,125 | 0.37 | 0.38 | 61.5 |
| 4/29/2015 22:15:49 | 44.95 | 38.55 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/29/2015 22:15:50 | 45.28 | 38.88 | 1,116 | 0.33 | 0.29 | 61.0 |
| 4/29/2015 22:15:50 | 45.60 | 39.20 | 1,116 | 0.33 | 0.29 | 61.0 |
| 4/29/2015 22:15:50 | 45.93 | 39.53 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/29/2015 22:15:51 | 46.26 | 39.86 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/29/2015 22:15:51 | 46.59 | 40.19 | 1,096 | 0.34 | 0.39 | 59.9 |
| 4/29/2015 22:15:51 | 46.92 | 40.52 | 1,098 | 0.34 | 0.38 | 60.0 |
| 4/29/2015 22:15:52 | 47.24 | 40.84 | 1,098 | 0.34 | 0.38 | 60.0 |
| 4/29/2015 22:15:52 | 47.57 | 41.17 | 1,112 | 0.34 | 0.39 | 60.8 |
| 4/29/2015 22:15:52 | 47.90 | 41.50 | 1,112 | 0.34 | 0.39 | 60.8 |
| 4/29/2015 22:15:52 | 48.23 | 41.83 | 1,111 | 0.33 | 0.38 | 60.8 |
| 4/29/2015 22:15:53 | 48.56 | 42.16 | 1,114 | 0.34 | 0.39 | 60.9 |
| 4/29/2015 22:15:53 | 48.88 | 42.48 | 1,114 | 0.34 | 0.39 | 60.9 |
| 4/29/2015 22:15:53 | 49.21 | 42.81 | 1,132 | 0.34 | 0.38 | 61.9 |
| 4/29/2015 22:15:54 | 49.54 | 43.14 | 1,111 | 0.34 | 0.38 | 60.7 |
| 4/29/2015 22:15:54 | 49.87 | 43.47 | 1,111 | 0.34 | 0.38 | 60.7 |
| 4/29/2015 22:15:55 | 50.20 | 43.80 | 1,114 | 0.34 | 0.38 | 60.9 |
| 4/29/2015 22:15:55 | 50.53 | 44.13 | 1,114 | 0.34 | 0.38 | 60.9 |
| 4/29/2015 22:15:55 | 50.85 | 44.45 | 1,085 | 0.33 | 0.39 | 59.3 |
| 4/29/2015 22:15:59 | 51.18 | 44.78 | 135 | 3.52 | 0.41 | 7.4 |
| 4/29/2015 22:16:00 | 51.51 | 45.11 | 118 | 4.33 | 0.47 | 6.4 |
| 4/29/2015 22:16:01 | 51.84 | 45.44 | 268 | 3.52 | 0.44 | 14.7 |
| 4/29/2015 22:16:02 | 52.17 | 45.77 | 413 | 3.51 | 0.46 | 22.6 |
| 4/29/2015 22:16:03 | 52.49 | 46.09 | 282 | 4.94 | 0.47 | 15.4 |
| 4/29/2015 22:16:09 | 52.82 | 46.42 | 58 | 4.26 | 0.47 | 3.2 |
| 4/29/2015 22:16:20 | 53.15 | 46.75 | 57 | 4.70 | 0.47 | 3.1 |
| 4/29/2015 22:16:28 | 53.48 | 47.08 | 98 | 4.01 | 0.47 | 5.4 |
| 4/29/2015 22:16:34 | 53.81 | 47.41 | 59 | 3.75 | 0.47 | 3.2 |
| 4/29/2015 22:16:40 | 54.13 | 47.73 | 55 | 3.12 | 0.47 | 3.0 |
| 4/29/2015 22:16:46 | 54.46 | 48.06 | 60 | 3.65 | 0.47 | 3.3 |
| 4/29/2015 22:16:59 | 54.79 | 48.39 | 51 | 3.56 | 0.46 | 2.8 |
| 4/29/2015 22:17:01 | 54.94 | 48.54 | 61 | 3.62 | 0.47 | 3.3 |

## K83 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:14:08

**End Date:**
4/29/2015 22:18:34

**Operator Note:**
'6.4 6.4b Auto Complete'

**Northing:**
362,737.63

**Easting:**
245,802.15

**Tide (feet):**
6.40



## Hole: K84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 22:15:17 | 36.42 | 30.02 | 1,127 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:17 | 36.75 | 30.35 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/29/2015 22:15:18 | 37.07 | 30.67 | 1,141 | 1.14 | 0.29 | 62.4 |
| 4/29/2015 22:15:18 | 37.40 | 31.00 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:18 | 37.73 | 31.33 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:18 | 38.06 | 31.66 | 1,144 | 1.14 | 0.29 | 62.5 |
| 4/29/2015 22:15:19 | 38.39 | 31.99 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/29/2015 22:15:20 | 38.71 | 32.31 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/29/2015 22:15:20 | 39.04 | 32.64 | 1,147 | 1.14 | 0.29 | 62.7 |
| 4/29/2015 22:15:20 | 39.37 | 32.97 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:21 | 39.70 | 33.30 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:21 | 40.03 | 33.63 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 22:15:21 | 40.35 | 33.95 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 22:15:21 | 40.68 | 34.28 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 22:15:22 | 41.01 | 34.61 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 22:15:22 | 41.34 | 34.94 | 1,134 | 1.14 | 0.29 | 62.0 |
| 4/29/2015 22:15:22 | 41.67 | 35.27 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:23 | 41.99 | 35.59 | 1,137 | 1.14 | 0.29 | 62.2 |
| 4/29/2015 22:15:23 | 42.32 | 35.92 | 1,127 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 22:15:23 | 42.65 | 36.25 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 22:15:24 | 42.98 | 36.58 | 1,131 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 22:15:24 | 43.31 | 36.91 | 1,118 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 22:15:24 | 43.64 | 37.24 | 1,118 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 22:15:24 | 43.96 | 37.56 | 1,129 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 22:15:25 | 44.29 | 37.89 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:25 | 44.62 | 38.22 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:25 | 44.95 | 38.55 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:26 | 45.28 | 38.88 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:26 | 45.60 | 39.20 | 1,126 | 1.14 | 0.29 | 61.6 |
| 4/29/2015 22:15:26 | 45.93 | 39.53 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 22:15:27 | 46.26 | 39.86 | 1,132 | 1.14 | 0.29 | 61.9 |
| 4/29/2015 22:15:27 | 46.59 | 40.19 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 22:15:27 | 46.92 | 40.52 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 22:15:28 | 47.24 | 40.84 | 1,128 | 1.14 | 0.29 | 61.7 |
| 4/29/2015 22:15:28 | 47.57 | 41.17 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 22:15:28 | 47.90 | 41.50 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 22:15:28 | 48.23 | 41.83 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 22:15:29 | 48.56 | 42.16 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 22:15:29 | 48.88 | 42.48 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/29/2015 22:15:29 | 49.21 | 42.81 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 22:15:30 | 49.54 | 43.14 | 1,125 | 1.14 | 0.29 | 61.5 |
| 4/29/2015 22:15:30 | 49.87 | 43.47 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 22:15:30 | 50.20 | 43.80 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 22:15:31 | 50.53 | 44.13 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/29/2015 22:15:31 | 50.85 | 44.45 | 1,119 | 1.14 | 0.29 | 61.2 |
| 4/29/2015 22:15:32 | 51.18 | 44.78 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 22:15:32 | 51.51 | 45.11 | 1,131 | 1.14 | 0.29 | 61.8 |
| 4/29/2015 22:15:32 | 51.84 | 45.44 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 22:15:33 | 52.17 | 45.77 | 1,123 | 1.14 | 0.29 | 61.4 |
| 4/29/2015 22:15:46 | 52.49 | 46.09 | 0 | 1.14 | 0.29 | 0.0 |
| 4/29/2015 22:15:49 | 52.82 | 46.42 | 89 | 1.14 | 0.29 | 4.9 |
| 4/29/2015 22:15:50 | 53.15 | 46.75 | 109 | 1.14 | 0.29 | 6.0 |
| 4/29/2015 22:15:50 | 53.48 | 47.08 | 252 | 1.14 | 0.29 | 13.8 |
| 4/29/2015 22:16:03 | 53.81 | 47.41 | 70 | 1.14 | 0.29 | 3.8 |
| 4/29/2015 22:16:03 | 54.13 | 47.73 | 202 | 1.14 | 0.29 | 11.1 |
| 4/29/2015 22:16:04 | 54.46 | 48.06 | 336 | 1.14 | 0.29 | 18.4 |
| 4/29/2015 22:16:04 | 54.79 | 48.39 | 472 | 1.14 | 0.29 | 25.8 |
| 4/29/2015 22:16:35 | 55.12 | 48.72 | 106 | 1.14 | 0.29 | 5.8 |
| 4/29/2015 22:16:36 | 55.45 | 49.05 | 187 | 1.14 | 0.29 | 10.2 |
| 4/29/2015 22:16:39 | 55.77 | 49.37 | 131 | 1.14 | 0.29 | 7.2 |
| 4/29/2015 22:16:43 | 56.10 | 49.70 | 99 | 1.14 | 0.29 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 22:16:46 | 56.43 | 50.03 | 99 | 1.14 | 0.29 | 5.4 |
| 4/29/2015 | 22:16:51 | 56.76 | 50.36 | 85 | 1.14 | 0.29 | 4.7 |
| 4/29/2015 | 22:16:56 | 57.09 | 50.69 | 76 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 | 22:17:01 | 57.41 | 51.01 | 56 | 1.14 | 0.29 | 3.1 |
| 4/29/2015 | 22:17:07 | 57.74 | 51.34 | 61 | 1.14 | 0.29 | 3.3 |
| 4/29/2015 | 22:17:11 | 58.07 | 51.67 | 93 | 1.14 | 0.29 | 5.1 |
| 4/29/2015 | 22:17:16 | 58.40 | 52.00 | 47 | 1.14 | 0.29 | 2.6 |
| 4/29/2015 | 22:17:21 | 58.73 | 52.33 | 66 | 1.14 | 0.29 | 3.6 |
| 4/29/2015 | 22:17:26 | 59.06 | 52.66 | 78 | 1.14 | 0.29 | 4.3 |
| 4/29/2015 | 22:17:31 | 59.38 | 52.98 | 70 | 1.14 | 0.29 | 3.8 |
| 4/29/2015 | 22:17:36 | 59.71 | 53.31 | 76 | 1.14 | 0.29 | 4.1 |
| 4/29/2015 | 22:17:39 | 60.04 | 53.64 | 102 | 1.14 | 0.29 | 5.6 |
| 4/29/2015 | 22:17:43 | 60.37 | 53.97 | 99 | 1.14 | 0.29 | 5.4 |
| 4/29/2015 | 22:17:46 | 60.70 | 54.30 | 102 | 1.14 | 0.29 | 5.6 |
| 4/29/2015 | 22:17:50 | 61.02 | 54.62 | 81 | 1.14 | 0.29 | 4.5 |
| 4/29/2015 | 22:17:57 | 61.35 | 54.95 | 73 | 1.14 | 0.29 | 4.0 |
| 4/29/2015 | 22:17:58 | 61.48 | 55.08 | 70 | 1.14 | 0.29 | 3.8 |

## K84 - Summary

**Pattern Number:**
AreaK_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/29/2015 22:14:03

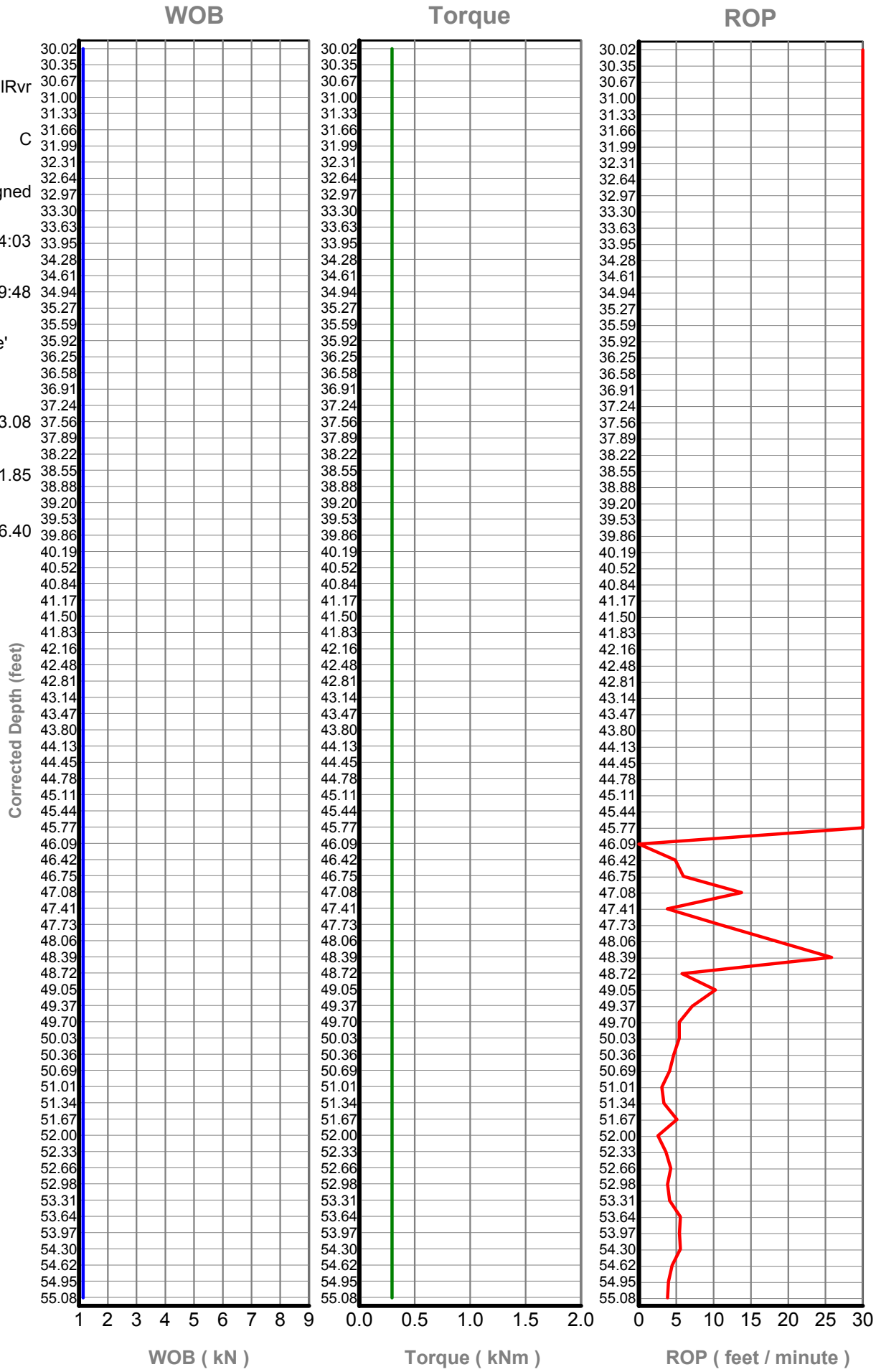
**End Date:**
4/29/2015 22:19:48

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
362,783.08

**Easting:**
245,861.85

**Tide (feet):**
6.40



## Hole: K85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:00:44 | 35.76 | 30.26 | 1,122 | 0.30 | 0.38 | 61.3 |
| 4/30/2015 9:00:44 | 36.09 | 30.59 | 1,134 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 9:00:45 | 36.42 | 30.92 | 1,125 | 0.30 | 0.37 | 61.5 |
| 4/30/2015 9:00:45 | 36.75 | 31.25 | 1,125 | 0.30 | 0.37 | 61.5 |
| 4/30/2015 9:00:45 | 37.07 | 31.57 | 1,122 | 0.29 | 0.38 | 61.3 |
| 4/30/2015 9:00:46 | 37.40 | 31.90 | 1,122 | 0.29 | 0.38 | 61.3 |
| 4/30/2015 9:00:46 | 37.73 | 32.23 | 1,116 | 0.30 | 0.38 | 61.0 |
| 4/30/2015 9:00:46 | 38.06 | 32.56 | 1,118 | 0.25 | 0.37 | 61.1 |
| 4/30/2015 9:00:47 | 38.39 | 32.89 | 1,118 | 0.25 | 0.37 | 61.1 |
| 4/30/2015 9:00:47 | 38.71 | 33.21 | 1,118 | 0.29 | 0.38 | 61.1 |
| 4/30/2015 9:00:47 | 39.04 | 33.54 | 1,118 | 0.29 | 0.38 | 61.1 |
| 4/30/2015 9:00:47 | 39.37 | 33.87 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/30/2015 9:00:48 | 39.70 | 34.20 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/30/2015 9:00:48 | 40.03 | 34.53 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/30/2015 9:00:48 | 40.35 | 34.85 | 1,131 | 0.30 | 0.37 | 61.8 |
| 4/30/2015 9:00:49 | 40.68 | 35.18 | 1,131 | 0.30 | 0.37 | 61.8 |
| 4/30/2015 9:00:49 | 41.01 | 35.51 | 1,138 | 0.29 | 0.37 | 62.2 |
| 4/30/2015 9:00:49 | 41.34 | 35.84 | 1,129 | 0.29 | 0.37 | 61.7 |
| 4/30/2015 9:00:50 | 41.67 | 36.17 | 1,129 | 0.29 | 0.37 | 61.7 |
| 4/30/2015 9:00:50 | 41.99 | 36.49 | 1,129 | 0.29 | 0.38 | 61.7 |
| 4/30/2015 9:00:50 | 42.32 | 36.82 | 1,129 | 0.29 | 0.38 | 61.7 |
| 4/30/2015 9:00:50 | 42.65 | 37.15 | 1,132 | 0.30 | 0.37 | 61.9 |
| 4/30/2015 9:00:51 | 42.98 | 37.48 | 1,141 | 0.29 | 0.37 | 62.4 |
| 4/30/2015 9:00:51 | 43.31 | 37.81 | 1,141 | 0.29 | 0.37 | 62.4 |
| 4/30/2015 9:00:51 | 43.64 | 38.14 | 1,129 | 0.29 | 0.38 | 61.7 |
| 4/30/2015 9:00:52 | 43.96 | 38.46 | 1,129 | 0.29 | 0.38 | 61.7 |
| 4/30/2015 9:00:52 | 44.29 | 38.79 | 1,132 | 0.30 | 0.37 | 61.9 |
| 4/30/2015 9:00:52 | 44.62 | 39.12 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/30/2015 9:00:53 | 44.95 | 39.45 | 1,156 | 0.29 | 0.37 | 63.2 |
| 4/30/2015 9:00:53 | 45.28 | 39.78 | 1,145 | 0.29 | 0.37 | 62.6 |
| 4/30/2015 9:00:54 | 45.60 | 40.10 | 1,145 | 0.29 | 0.37 | 62.6 |
| 4/30/2015 9:00:54 | 45.93 | 40.43 | 1,142 | 0.28 | 0.38 | 62.4 |
| 4/30/2015 9:00:54 | 46.26 | 40.76 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:00:55 | 46.59 | 41.09 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:00:55 | 46.92 | 41.42 | 1,148 | 0.30 | 0.38 | 62.8 |
| 4/30/2015 9:00:55 | 47.24 | 41.74 | 1,148 | 0.30 | 0.38 | 62.8 |
| 4/30/2015 9:00:55 | 47.57 | 42.07 | 1,145 | 0.30 | 0.37 | 62.6 |
| 4/30/2015 9:00:56 | 47.90 | 42.40 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:00:56 | 48.23 | 42.73 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:00:56 | 48.56 | 43.06 | 1,138 | 0.30 | 0.38 | 62.2 |
| 4/30/2015 9:00:57 | 48.88 | 43.38 | 1,138 | 0.30 | 0.38 | 62.2 |
| 4/30/2015 9:00:57 | 49.21 | 43.71 | 1,148 | 0.30 | 0.38 | 62.8 |
| 4/30/2015 9:00:57 | 49.54 | 44.04 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 9:00:58 | 49.87 | 44.37 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 9:00:58 | 50.20 | 44.70 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 9:00:58 | 50.53 | 45.03 | 1,139 | 0.30 | 0.37 | 62.3 |
| 4/30/2015 9:00:58 | 50.85 | 45.35 | 1,142 | 0.30 | 0.38 | 62.4 |
| 4/30/2015 9:00:59 | 51.18 | 45.68 | 1,145 | 0.30 | 0.38 | 62.6 |
| 4/30/2015 9:00:59 | 51.51 | 46.01 | 1,145 | 0.30 | 0.38 | 62.6 |
| 4/30/2015 9:00:59 | 51.84 | 46.34 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:01:00 | 52.17 | 46.67 | 1,142 | 0.30 | 0.37 | 62.4 |
| 4/30/2015 9:01:00 | 52.49 | 46.99 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 9:01:00 | 52.82 | 47.32 | 1,136 | 0.30 | 0.37 | 62.1 |
| 4/30/2015 9:01:01 | 53.15 | 47.65 | 1,136 | 0.30 | 0.37 | 62.1 |
| 4/30/2015 9:01:01 | 53.48 | 47.98 | 1,139 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 9:01:01 | 53.81 | 48.31 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 9:01:02 | 54.13 | 48.63 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 9:01:02 | 54.46 | 48.96 | 1,131 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 9:01:02 | 54.79 | 49.29 | 1,131 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 9:01:02 | 55.12 | 49.62 | 1,124 | 0.28 | 0.42 | 61.4 |
| 4/30/2015 9:01:11 | 55.45 | 49.95 | 40 | 4.23 | 0.43 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:01:11 | 55.77 | 50.27 | 137 | 3.52 | 0.44 | 7.5 |
| 4/30/2015 | 9:01:25 | 56.10 | 50.60 | 32 | 3.82 | 0.46 | 1.7 |
| 4/30/2015 | 9:01:29 | 56.43 | 50.93 | 100 | 4.73 | 0.46 | 5.5 |
| 4/30/2015 | 9:01:32 | 56.76 | 51.26 | 110 | 4.07 | 0.46 | 6.0 |
| 4/30/2015 | 9:01:35 | 57.09 | 51.59 | 130 | 4.62 | 0.46 | 7.1 |
| 4/30/2015 | 9:01:38 | 57.41 | 51.91 | 136 | 4.28 | 0.45 | 7.4 |
| 4/30/2015 | 9:01:49 | 57.74 | 52.24 | 95 | 3.62 | 0.46 | 5.2 |
| 4/30/2015 | 9:01:52 | 58.07 | 52.57 | 139 | 3.49 | 0.46 | 7.6 |
| 4/30/2015 | 9:01:54 | 58.40 | 52.90 | 131 | 3.74 | 0.46 | 7.2 |
| 4/30/2015 | 9:01:59 | 58.73 | 53.23 | 103 | 3.50 | 0.46 | 5.6 |
| 4/30/2015 | 9:02:10 | 59.06 | 53.56 | 19 | 3.37 | 0.47 | 1.0 |
| 4/30/2015 | 9:02:15 | 59.38 | 53.88 | 70 | 3.38 | 0.46 | 3.8 |
| 4/30/2015 | 9:02:19 | 59.71 | 54.21 | 90 | 3.49 | 0.46 | 4.9 |
| 4/30/2015 | 9:02:23 | 60.04 | 54.54 | 107 | 3.94 | 0.47 | 5.8 |
| 4/30/2015 | 9:02:25 | 60.33 | 54.83 | 135 | 3.94 | 0.45 | 7.4 |

## K85 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 8:59:00

**End Date:**
4/30/2015 9:04:07

**Operator Note:**
'5.5 5.3 b Auto Complete'

**Northing:**
361,412.30

**Easting:**
244,283.24

**Tide (feet):**
5.50



## Hole: K86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 9:13:31 | 35.76 | 30.16 | 1,124 | 0.33 | 0.38 | 61.5 |
| 4/30/2015 9:13:31 | 36.09 | 30.49 | 1,151 | 0.29 | 0.37 | 62.9 |
| 4/30/2015 9:13:31 | 36.42 | 30.82 | 1,147 | 0.33 | 0.39 | 62.7 |
| 4/30/2015 9:13:32 | 36.75 | 31.15 | 1,147 | 0.33 | 0.39 | 62.7 |
| 4/30/2015 9:13:32 | 37.07 | 31.47 | 1,147 | 0.20 | 0.37 | 62.7 |
| 4/30/2015 9:13:32 | 37.40 | 31.80 | 1,147 | 0.20 | 0.37 | 62.7 |
| 4/30/2015 9:13:32 | 37.73 | 32.13 | 1,147 | 0.30 | 0.37 | 62.7 |
| 4/30/2015 9:13:33 | 38.06 | 32.46 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 9:13:34 | 38.39 | 32.79 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 9:13:34 | 38.71 | 33.11 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 9:13:34 | 39.04 | 33.44 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 9:13:34 | 39.37 | 33.77 | 1,171 | 0.30 | 0.38 | 64.0 |
| 4/30/2015 9:13:35 | 39.70 | 34.10 | 1,171 | 0.30 | 0.38 | 64.0 |
| 4/30/2015 9:13:35 | 40.03 | 34.43 | 1,190 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 9:13:35 | 40.35 | 34.75 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 9:13:36 | 40.68 | 35.08 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 9:13:36 | 41.01 | 35.41 | 1,188 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 9:13:36 | 41.34 | 35.74 | 1,188 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 9:13:36 | 41.67 | 36.07 | 1,188 | 0.30 | 0.37 | 65.0 |
| 4/30/2015 9:13:37 | 41.99 | 36.39 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 9:13:37 | 42.32 | 36.72 | 1,191 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 9:13:37 | 42.65 | 37.05 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 9:13:38 | 42.98 | 37.38 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 9:13:38 | 43.31 | 37.71 | 1,181 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 9:13:38 | 43.64 | 38.04 | 1,181 | 0.29 | 0.37 | 64.6 |
| 4/30/2015 9:13:38 | 43.96 | 38.36 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:13:39 | 44.29 | 38.69 | 1,197 | 0.31 | 0.38 | 65.4 |
| 4/30/2015 9:13:39 | 44.62 | 39.02 | 1,197 | 0.31 | 0.38 | 65.4 |
| 4/30/2015 9:13:39 | 44.95 | 39.35 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:13:40 | 45.28 | 39.68 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 9:13:40 | 45.60 | 40.00 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 9:13:40 | 45.93 | 40.33 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 9:13:40 | 46.26 | 40.66 | 1,204 | 0.29 | 0.39 | 65.8 |
| 4/30/2015 9:13:41 | 46.59 | 40.99 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 9:13:41 | 46.92 | 41.32 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 9:13:41 | 47.24 | 41.64 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:42 | 47.57 | 41.97 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:42 | 47.90 | 42.30 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 9:13:42 | 48.23 | 42.63 | 1,197 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 9:13:42 | 48.56 | 42.96 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:43 | 48.88 | 43.28 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 9:13:43 | 49.21 | 43.61 | 1,189 | 0.30 | 0.38 | 65.0 |
| 4/30/2015 9:13:43 | 49.54 | 43.94 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:44 | 49.87 | 44.27 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:44 | 50.20 | 44.60 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:13:45 | 50.53 | 44.93 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 9:13:45 | 50.85 | 45.25 | 1,197 | 0.30 | 0.38 | 65.4 |
| 4/30/2015 9:13:45 | 51.18 | 45.58 | 1,194 | 0.30 | 0.38 | 65.3 |
| 4/30/2015 9:13:46 | 51.51 | 45.91 | 1,194 | 0.30 | 0.38 | 65.3 |
| 4/30/2015 9:13:46 | 51.84 | 46.24 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:46 | 52.17 | 46.57 | 1,200 | 0.30 | 0.37 | 65.6 |
| 4/30/2015 9:13:46 | 52.49 | 46.89 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 9:13:47 | 52.82 | 47.22 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 9:13:47 | 53.15 | 47.55 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/30/2015 9:13:47 | 53.48 | 47.88 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 9:13:48 | 53.81 | 48.21 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 9:13:48 | 54.13 | 48.53 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/30/2015 9:13:48 | 54.46 | 48.86 | 1,194 | 0.30 | 0.37 | 65.3 |
| 4/30/2015 9:13:55 | 54.79 | 49.19 | 0 | 3.69 | 0.45 | 0.0 |
| 4/30/2015 9:13:59 | 55.12 | 49.52 | 3 | 2.62 | 0.41 | 0.2 |
| 4/30/2015 9:13:59 | 55.45 | 49.85 | 112 | 2.66 | 0.29 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 9:14:06 | 55.77 | 50.17 | 91 | 3.78 | 0.47 | 5.0 |
| 4/30/2015 | 9:14:07 | 56.10 | 50.50 | 209 | 3.04 | 0.43 | 11.4 |
| 4/30/2015 | 9:14:19 | 56.43 | 50.83 | 35 | 3.03 | 0.46 | 1.9 |
| 4/30/2015 | 9:14:29 | 56.76 | 51.16 | 34 | 2.87 | 0.46 | 1.9 |
| 4/30/2015 | 9:14:39 | 57.09 | 51.49 | 40 | 3.31 | 0.48 | 2.2 |
| 4/30/2015 | 9:14:46 | 57.39 | 51.79 | 49 | 3.26 | 0.47 | 2.7 |

## K86 - Summary

**Pattern Number:**
AreaK_Lane17-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 9:11:53

**End Date:**
4/30/2015 9:16:04

**Operator Note:**
'5.6 5.5 b Rock'

**Northing:**
361,463.45

**Easting:**
244,347.34

**Tide (feet):**
5.60



## Hole: K87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:57:44 | 35.43 | 30.13 | 924 | 1.12 | 0.23 | 50.5 |
| 4/30/2015 12:57:44 | 35.76 | 30.46 | 918 | 1.11 | 0.23 | 50.2 |
| 4/30/2015 12:57:45 | 36.09 | 30.79 | 921 | 1.11 | 0.23 | 50.3 |
| 4/30/2015 12:57:46 | 36.42 | 31.12 | 933 | 1.11 | 0.23 | 51.0 |
| 4/30/2015 12:57:46 | 36.75 | 31.45 | 933 | 1.11 | 0.23 | 51.0 |
| 4/30/2015 12:57:46 | 37.07 | 31.77 | 922 | 1.11 | 0.23 | 50.4 |
| 4/30/2015 12:57:47 | 37.40 | 32.10 | 917 | 1.12 | 0.23 | 50.1 |
| 4/30/2015 12:57:47 | 37.73 | 32.43 | 928 | 1.11 | 0.23 | 50.8 |
| 4/30/2015 12:57:48 | 38.06 | 32.76 | 928 | 1.11 | 0.23 | 50.8 |
| 4/30/2015 12:57:48 | 38.39 | 33.09 | 918 | 1.12 | 0.23 | 50.2 |
| 4/30/2015 12:57:48 | 38.71 | 33.41 | 926 | 1.12 | 0.23 | 50.6 |
| 4/30/2015 12:57:49 | 39.04 | 33.74 | 926 | 1.12 | 0.23 | 50.6 |
| 4/30/2015 12:57:49 | 39.37 | 34.07 | 926 | 1.11 | 0.24 | 50.6 |
| 4/30/2015 12:57:49 | 39.70 | 34.40 | 928 | 1.13 | 0.23 | 50.8 |
| 4/30/2015 12:57:50 | 40.03 | 34.73 | 914 | 1.12 | 0.23 | 50.0 |
| 4/30/2015 12:57:50 | 40.35 | 35.05 | 914 | 1.12 | 0.23 | 50.0 |
| 4/30/2015 12:57:50 | 40.68 | 35.38 | 927 | 1.13 | 0.23 | 50.7 |
| 4/30/2015 12:57:51 | 41.01 | 35.71 | 916 | 1.13 | 0.23 | 50.1 |
| 4/30/2015 12:57:51 | 41.34 | 36.04 | 919 | 1.12 | 0.23 | 50.2 |
| 4/30/2015 12:57:52 | 41.67 | 36.37 | 919 | 1.12 | 0.23 | 50.2 |
| 4/30/2015 12:57:52 | 41.99 | 36.69 | 913 | 1.10 | 0.23 | 50.0 |
| 4/30/2015 12:57:52 | 42.32 | 37.02 | 916 | 1.12 | 0.23 | 50.1 |
| 4/30/2015 12:57:53 | 42.65 | 37.35 | 908 | 1.13 | 0.23 | 49.7 |
| 4/30/2015 12:57:53 | 42.98 | 37.68 | 908 | 1.13 | 0.23 | 49.7 |
| 4/30/2015 12:57:53 | 43.31 | 38.01 | 913 | 1.11 | 0.23 | 49.9 |
| 4/30/2015 12:57:54 | 43.64 | 38.34 | 908 | 1.09 | 0.23 | 49.7 |
| 4/30/2015 12:57:54 | 43.96 | 38.66 | 916 | 1.12 | 0.23 | 50.1 |
| 4/30/2015 12:57:55 | 44.29 | 38.99 | 916 | 1.12 | 0.23 | 50.1 |
| 4/30/2015 12:57:55 | 44.62 | 39.32 | 913 | 1.13 | 0.23 | 50.0 |
| 4/30/2015 12:57:55 | 44.95 | 39.65 | 919 | 1.11 | 0.23 | 50.2 |
| 4/30/2015 12:57:56 | 45.28 | 39.98 | 913 | 1.13 | 0.23 | 50.0 |
| 4/30/2015 12:57:57 | 45.60 | 40.30 | 913 | 1.13 | 0.23 | 50.0 |
| 4/30/2015 12:57:57 | 45.93 | 40.63 | 916 | 1.11 | 0.23 | 50.1 |
| 4/30/2015 12:57:57 | 46.26 | 40.96 | 910 | 1.11 | 0.23 | 49.8 |
| 4/30/2015 12:57:58 | 46.59 | 41.29 | 910 | 1.10 | 0.23 | 49.8 |
| 4/30/2015 12:57:58 | 46.92 | 41.62 | 905 | 1.13 | 0.23 | 49.5 |
| 4/30/2015 12:57:59 | 47.24 | 41.94 | 905 | 1.13 | 0.23 | 49.5 |
| 4/30/2015 12:57:59 | 47.57 | 42.27 | 910 | 1.11 | 0.23 | 49.8 |
| 4/30/2015 12:57:59 | 47.90 | 42.60 | 908 | 1.11 | 0.23 | 49.6 |
| 4/30/2015 12:58:00 | 48.23 | 42.93 | 902 | 1.11 | 0.23 | 49.3 |
| 4/30/2015 12:58:00 | 48.56 | 43.26 | 902 | 1.11 | 0.23 | 49.3 |
| 4/30/2015 12:58:00 | 48.88 | 43.58 | 908 | 1.13 | 0.23 | 49.6 |
| 4/30/2015 12:58:01 | 49.21 | 43.91 | 911 | 1.12 | 0.23 | 49.8 |
| 4/30/2015 12:58:01 | 49.54 | 44.24 | 911 | 1.12 | 0.23 | 49.8 |
| 4/30/2015 12:58:02 | 49.87 | 44.57 | 911 | 1.12 | 0.23 | 49.8 |
| 4/30/2015 12:58:02 | 50.20 | 44.90 | 908 | 1.12 | 0.23 | 49.6 |
| 4/30/2015 12:58:02 | 50.53 | 45.23 | 908 | 1.12 | 0.23 | 49.6 |
| 4/30/2015 12:58:03 | 50.85 | 45.55 | 911 | 1.11 | 0.23 | 49.8 |
| 4/30/2015 12:58:03 | 51.18 | 45.88 | 911 | 1.11 | 0.23 | 49.8 |
| 4/30/2015 12:58:03 | 51.51 | 46.21 | 905 | 1.14 | 0.23 | 49.5 |
| 4/30/2015 12:58:04 | 51.84 | 46.54 | 902 | 1.12 | 0.23 | 49.3 |
| 4/30/2015 12:58:04 | 52.17 | 46.87 | 902 | 1.10 | 0.23 | 49.3 |
| 4/30/2015 12:58:05 | 52.49 | 47.19 | 902 | 1.10 | 0.23 | 49.3 |
| 4/30/2015 12:58:05 | 52.82 | 47.52 | 905 | 1.16 | 0.23 | 49.5 |
| 4/30/2015 12:58:05 | 53.15 | 47.85 | 899 | 1.13 | 0.23 | 49.2 |
| 4/30/2015 12:58:06 | 53.48 | 48.18 | 899 | 1.11 | 0.23 | 49.2 |
| 4/30/2015 12:58:07 | 53.81 | 48.51 | 899 | 1.11 | 0.23 | 49.2 |
| 4/30/2015 12:58:11 | 54.13 | 48.83 | 9 | 1.09 | 0.74 | 0.5 |
| 4/30/2015 12:58:13 | 54.46 | 49.16 | 152 | 1.15 | 0.93 | 8.3 |
| 4/30/2015 12:58:19 | 54.79 | 49.49 | 3 | 1.72 | 0.88 | 0.2 |
| 4/30/2015 12:58:21 | 55.12 | 49.82 | 111 | 1.76 | 1.27 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:58:22 | 55.45 | 50.15 | 205 | 2.02 | 0.87 | 11.2 |
| 4/30/2015 | 12:58:23 | 55.77 | 50.47 | 226 | 1.07 | 1.10 | 12.4 |
| 4/30/2015 | 12:58:27 | 56.10 | 50.80 | 69 | 1.19 | 1.37 | 3.8 |
| 4/30/2015 | 12:58:29 | 56.43 | 51.13 | 123 | 1.06 | 1.00 | 6.7 |
| 4/30/2015 | 12:58:38 | 56.76 | 51.46 | 44 | 1.02 | 1.15 | 2.4 |
| 4/30/2015 | 12:58:45 | 57.09 | 51.79 | 55 | 1.14 | 1.02 | 3.0 |
| 4/30/2015 | 12:58:50 | 57.41 | 52.11 | 72 | 1.03 | 1.06 | 4.0 |
| 4/30/2015 | 12:58:53 | 57.74 | 52.44 | 96 | 1.01 | 1.17 | 5.3 |
| 4/30/2015 | 12:58:56 | 58.07 | 52.77 | 118 | 1.05 | 1.09 | 6.5 |
| 4/30/2015 | 12:58:58 | 58.40 | 53.10 | 149 | 2.10 | 1.31 | 8.1 |
| 4/30/2015 | 12:59:00 | 58.73 | 53.43 | 196 | 0.33 | 1.06 | 10.7 |
| 4/30/2015 | 12:59:02 | 59.06 | 53.76 | 215 | 1.02 | 1.02 | 11.8 |
| 4/30/2015 | 12:59:02 | 59.38 | 54.08 | 243 | 1.09 | 1.13 | 13.3 |
| 4/30/2015 | 12:59:03 | 59.71 | 54.41 | 286 | 1.15 | 1.94 | 15.6 |
| 4/30/2015 | 12:59:04 | 60.04 | 54.74 | 378 | 0.26 | 1.47 | 20.7 |
| 4/30/2015 | 12:59:06 | 60.37 | 55.07 | 287 | 1.15 | 0.91 | 15.7 |
| 4/30/2015 | 12:59:06 | 60.49 | 55.19 | 287 | 0.70 | 0.94 | 15.7 |

## K87 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:56:11

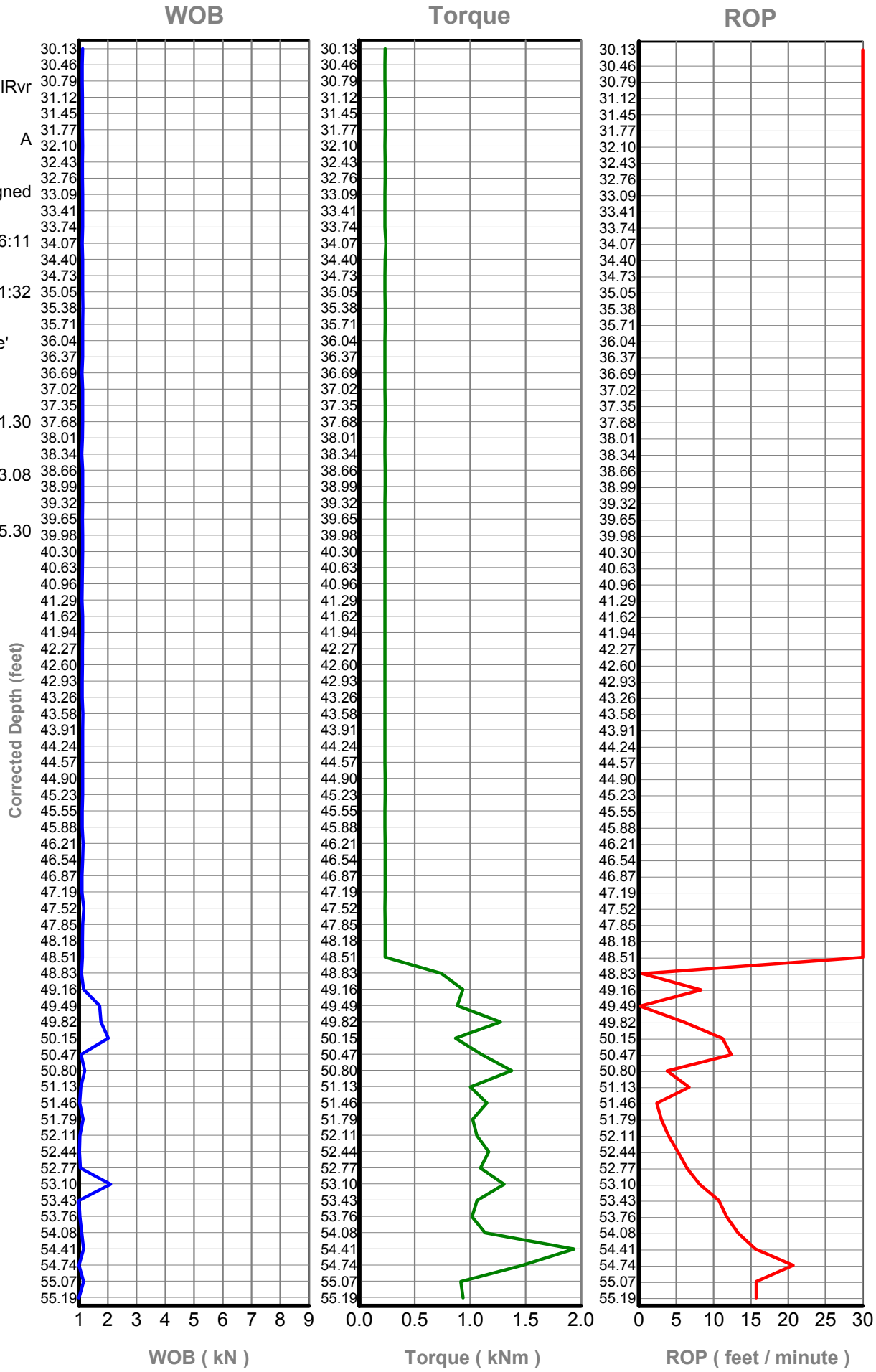
**End Date:**
4/30/2015 13:01:32

**Operator Note:**
'5.3 5.3 a Auto Complete'

**Northing:**
361,501.30

**Easting:**
244,393.08

**Tide (feet):**
5.30



## Hole: K88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:57:13 | 35.43 | 30.13 | 1,194 | 0.29 | 0.37 | 65.3 |
| 4/30/2015 12:57:13 | 35.76 | 30.46 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:57:14 | 36.09 | 30.79 | 1,194 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 12:57:13 | 36.42 | 31.12 | 1,157 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 12:57:14 | 36.75 | 31.45 | 1,157 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 12:57:14 | 37.07 | 31.77 | 1,157 | 0.29 | 0.37 | 63.3 |
| 4/30/2015 12:57:14 | 37.40 | 32.10 | 1,178 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 12:57:15 | 37.73 | 32.43 | 1,178 | 0.29 | 0.38 | 64.4 |
| 4/30/2015 12:57:15 | 38.06 | 32.76 | 1,185 | 0.29 | 0.38 | 64.8 |
| 4/30/2015 12:57:15 | 38.39 | 33.09 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:57:16 | 38.71 | 33.41 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:57:16 | 39.04 | 33.74 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:57:17 | 39.37 | 34.07 | 1,178 | 0.29 | 0.37 | 64.4 |
| 4/30/2015 12:57:17 | 39.70 | 34.40 | 1,224 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 12:57:17 | 40.03 | 34.73 | 1,224 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 12:57:17 | 40.35 | 35.05 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:18 | 40.68 | 35.38 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:18 | 41.01 | 35.71 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:18 | 41.34 | 36.04 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:19 | 41.67 | 36.37 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:19 | 41.99 | 36.69 | 1,211 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:57:19 | 42.32 | 37.02 | 1,211 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:57:19 | 42.65 | 37.35 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:20 | 42.98 | 37.68 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:20 | 43.31 | 38.01 | 1,202 | 0.36 | 0.38 | 65.8 |
| 4/30/2015 12:57:20 | 43.64 | 38.34 | 1,192 | 0.33 | 0.38 | 65.2 |
| 4/30/2015 12:57:21 | 43.96 | 38.66 | 1,192 | 0.33 | 0.38 | 65.2 |
| 4/30/2015 12:57:21 | 44.29 | 38.99 | 1,189 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 12:57:21 | 44.62 | 39.32 | 1,189 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 12:57:21 | 44.95 | 39.65 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 12:57:22 | 45.28 | 39.98 | 1,188 | 0.26 | 0.37 | 65.0 |
| 4/30/2015 12:57:22 | 45.60 | 40.30 | 1,188 | 0.26 | 0.37 | 65.0 |
| 4/30/2015 12:57:22 | 45.93 | 40.63 | 1,188 | 0.32 | 0.38 | 65.0 |
| 4/30/2015 12:57:23 | 46.26 | 40.96 | 1,188 | 0.32 | 0.38 | 65.0 |
| 4/30/2015 12:57:23 | 46.59 | 41.29 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 12:57:23 | 46.92 | 41.62 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 12:57:23 | 47.24 | 41.94 | 1,191 | 0.32 | 0.37 | 65.1 |
| 4/30/2015 12:57:24 | 47.57 | 42.27 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:57:24 | 47.90 | 42.60 | 1,191 | 0.29 | 0.37 | 65.1 |
| 4/30/2015 12:57:24 | 48.23 | 42.93 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 12:57:25 | 48.56 | 43.26 | 1,189 | 0.29 | 0.37 | 65.0 |
| 4/30/2015 12:57:25 | 48.88 | 43.58 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:57:25 | 49.21 | 43.91 | 1,198 | 0.29 | 0.38 | 65.5 |
| 4/30/2015 12:57:25 | 49.54 | 44.24 | 1,205 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 12:57:26 | 49.87 | 44.57 | 1,195 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 12:57:27 | 50.20 | 44.90 | 1,195 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 12:57:27 | 50.53 | 45.23 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 12:57:27 | 50.85 | 45.55 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 12:57:27 | 51.18 | 45.88 | 1,210 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:57:28 | 51.51 | 46.21 | 1,210 | 0.29 | 0.37 | 66.2 |
| 4/30/2015 12:57:28 | 51.84 | 46.54 | 1,203 | 0.29 | 0.36 | 65.8 |
| 4/30/2015 12:57:28 | 52.17 | 46.87 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:29 | 52.49 | 47.19 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:29 | 52.82 | 47.52 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:29 | 53.15 | 47.85 | 1,203 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:29 | 53.48 | 48.18 | 1,205 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 12:57:30 | 53.81 | 48.51 | 1,205 | 0.29 | 0.38 | 65.9 |
| 4/30/2015 12:57:30 | 54.13 | 48.83 | 1,202 | 0.29 | 0.37 | 65.8 |
| 4/30/2015 12:57:30 | 54.46 | 49.16 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:57:31 | 54.79 | 49.49 | 1,197 | 0.29 | 0.37 | 65.4 |
| 4/30/2015 12:57:36 | 55.12 | 49.82 | 0 | 2.13 | 0.39 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 12:57:42 | 55.45 | 50.15 | 9 | 2.74 | 0.44 | 0.5 |
| 4/30/2015 | 12:57:42 | 55.77 | 50.47 | 80 | 2.65 | 0.42 | 4.4 |
| 4/30/2015 | 12:57:43 | 56.10 | 50.80 | 215 | 3.49 | 0.42 | 11.8 |
| 4/30/2015 | 12:57:43 | 56.43 | 51.13 | 347 | 2.67 | 0.43 | 19.0 |
| 4/30/2015 | 12:57:44 | 56.76 | 51.46 | 457 | 3.45 | 0.43 | 25.0 |
| 4/30/2015 | 12:57:45 | 57.09 | 51.79 | 570 | 4.81 | 0.48 | 31.2 |
| 4/30/2015 | 12:58:24 | 57.41 | 52.11 | 35 | 4.74 | 0.44 | 1.9 |
| 4/30/2015 | 12:58:25 | 57.74 | 52.44 | 235 | 2.86 | 0.42 | 12.9 |
| 4/30/2015 | 12:58:26 | 58.07 | 52.77 | 350 | 3.10 | 0.42 | 19.1 |
| 4/30/2015 | 12:58:26 | 58.40 | 53.10 | 470 | 3.39 | 0.44 | 25.7 |
| 4/30/2015 | 12:58:31 | 58.73 | 53.43 | 35 | 6.99 | 0.43 | 1.9 |
| 4/30/2015 | 12:58:32 | 59.06 | 53.76 | 127 | 4.98 | 0.42 | 6.9 |
| 4/30/2015 | 12:58:32 | 59.38 | 54.08 | 250 | 3.37 | 0.42 | 13.7 |
| 4/30/2015 | 12:58:36 | 59.71 | 54.41 | 0 | 2.77 | 0.44 | 0.0 |
| 4/30/2015 | 12:58:38 | 60.04 | 54.74 | 132 | 4.98 | 0.47 | 7.2 |
| 4/30/2015 | 12:58:41 | 60.35 | 55.05 | 121 | 3.97 | 0.47 | 6.6 |

## K88 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:55:33

**End Date:**
4/30/2015 13:00:08

**Operator Note:**
'5.3 5.3 b Auto Complete'

**Northing:**
361,550.70

**Easting:**
244,450.48

**Tide (feet):**
5.30



## Hole: K89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 12:56:43 | 35.43 | 30.13 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:43 | 35.76 | 30.46 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:56:44 | 36.09 | 30.79 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:56:44 | 36.42 | 31.12 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:56:44 | 36.75 | 31.45 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:44 | 37.07 | 31.77 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:45 | 37.40 | 32.10 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:45 | 37.73 | 32.43 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:46 | 38.06 | 32.76 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:46 | 38.39 | 33.09 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:46 | 38.71 | 33.41 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:56:47 | 39.04 | 33.74 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 12:56:47 | 39.37 | 34.07 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 12:56:47 | 39.70 | 34.40 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:56:48 | 40.03 | 34.73 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 12:56:48 | 40.35 | 35.05 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:56:48 | 40.68 | 35.38 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:56:48 | 41.01 | 35.71 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 12:56:49 | 41.34 | 36.04 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:49 | 41.67 | 36.37 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:49 | 41.99 | 36.69 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:56:50 | 42.32 | 37.02 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:50 | 42.65 | 37.35 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 12:56:50 | 42.98 | 37.68 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 12:56:51 | 43.31 | 38.01 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:56:51 | 43.64 | 38.34 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:56:51 | 43.96 | 38.66 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:56:52 | 44.29 | 38.99 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 12:56:52 | 44.62 | 39.32 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:53 | 44.95 | 39.65 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:53 | 45.28 | 39.98 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:53 | 45.60 | 40.30 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:54 | 45.93 | 40.63 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 12:56:54 | 46.26 | 40.96 | 1,078 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 12:56:54 | 46.59 | 41.29 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:55 | 46.92 | 41.62 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:55 | 47.24 | 41.94 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 12:56:55 | 47.57 | 42.27 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:56:56 | 47.90 | 42.60 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:56:56 | 48.23 | 42.93 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 12:56:56 | 48.56 | 43.26 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:56:57 | 48.88 | 43.58 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 12:56:57 | 49.21 | 43.91 | 1,085 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 12:56:57 | 49.54 | 44.24 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 12:57:10 | 49.87 | 44.57 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 12:57:15 | 50.20 | 44.90 | 99 | 1.14 | 0.29 | 5.4 |
| 4/30/2015 12:57:18 | 50.53 | 45.23 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 12:57:20 | 50.85 | 45.55 | 159 | 1.14 | 0.29 | 8.7 |
| 4/30/2015 12:57:26 | 51.18 | 45.88 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 12:57:34 | 51.51 | 46.21 | 53 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 12:57:44 | 51.84 | 46.54 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 12:57:56 | 52.17 | 46.87 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 12:57:58 | 52.25 | 46.95 | 38 | 1.14 | 0.29 | 2.1 |

## K89 - Summary

**Pattern Number:**
AreaK_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 12:55:34

**End Date:**
4/30/2015 12:59:29

**Operator Note:**
'5.3 5.3 c Auto Complete'

**Northing:**
361,600.10

**Easting:**
244,506.92

**Tide (feet):**
5.30



## Hole: K9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:00:13 | 36.42 | 30.02 | 781 | 1.01 | 0.14 | 42.7 |
| 4/29/2015 10:00:14 | 36.75 | 30.35 | 779 | 1.00 | 0.14 | 42.6 |
| 4/29/2015 10:00:14 | 37.07 | 30.67 | 779 | 1.00 | 0.14 | 42.6 |
| 4/29/2015 10:00:14 | 37.40 | 31.00 | 787 | 1.00 | 0.14 | 43.0 |
| 4/29/2015 10:00:15 | 37.73 | 31.33 | 784 | 1.02 | 0.14 | 42.9 |
| 4/29/2015 10:00:15 | 38.06 | 31.66 | 787 | 1.01 | 0.14 | 43.0 |
| 4/29/2015 10:00:16 | 38.39 | 31.99 | 779 | 1.09 | 0.14 | 42.6 |
| 4/29/2015 10:00:29 | 38.71 | 32.31 | 40 | 1.07 | 0.68 | 2.2 |
| 4/29/2015 10:00:31 | 39.04 | 32.64 | 142 | 1.05 | 0.81 | 7.8 |
| 4/29/2015 10:00:32 | 39.37 | 32.97 | 212 | 1.05 | 0.77 | 11.6 |
| 4/29/2015 10:00:33 | 39.70 | 33.30 | 259 | 1.05 | 0.92 | 14.2 |
| 4/29/2015 10:00:35 | 40.03 | 33.63 | 238 | 1.06 | 0.91 | 13.0 |
| 4/29/2015 10:00:36 | 40.35 | 33.95 | 246 | 1.05 | 0.83 | 13.4 |
| 4/29/2015 10:00:38 | 40.68 | 34.28 | 252 | 1.04 | 0.99 | 13.8 |
| 4/29/2015 10:00:40 | 41.01 | 34.61 | 241 | 1.07 | 1.00 | 13.2 |
| 4/29/2015 10:00:41 | 41.34 | 34.94 | 223 | 1.05 | 1.09 | 12.2 |
| 4/29/2015 10:00:43 | 41.67 | 35.27 | 191 | 1.05 | 1.14 | 10.5 |
| 4/29/2015 10:00:49 | 41.99 | 35.59 | 37 | 1.06 | 1.33 | 2.0 |
| 4/29/2015 10:00:54 | 42.32 | 35.92 | 69 | 0.99 | 0.97 | 3.8 |
| 4/29/2015 10:00:59 | 42.65 | 36.25 | 76 | 1.02 | 1.06 | 4.2 |
| 4/29/2015 10:01:03 | 42.98 | 36.58 | 72 | 1.05 | 0.89 | 3.9 |
| 4/29/2015 10:01:05 | 43.31 | 36.91 | 131 | 0.96 | 1.06 | 7.2 |
| 4/29/2015 10:01:08 | 43.64 | 37.24 | 116 | 0.96 | 1.10 | 6.3 |
| 4/29/2015 10:01:12 | 43.96 | 37.56 | 102 | 1.03 | 1.03 | 5.6 |
| 4/29/2015 10:01:17 | 44.29 | 37.89 | 87 | 0.93 | 1.12 | 4.7 |
| 4/29/2015 10:01:23 | 44.62 | 38.22 | 67 | 1.00 | 1.05 | 3.6 |
| 4/29/2015 10:01:30 | 44.95 | 38.55 | 55 | 0.97 | 0.93 | 3.0 |
| 4/29/2015 10:01:39 | 45.28 | 38.88 | 41 | 0.98 | 0.90 | 2.2 |
| 4/29/2015 10:01:48 | 45.60 | 39.20 | 39 | 0.96 | 0.90 | 2.2 |
| 4/29/2015 10:01:56 | 45.93 | 39.53 | 32 | 0.47 | 1.06 | 1.7 |

## K9 - Summary

**Pattern Number:**
AreaK_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/29/2015 9:58:43

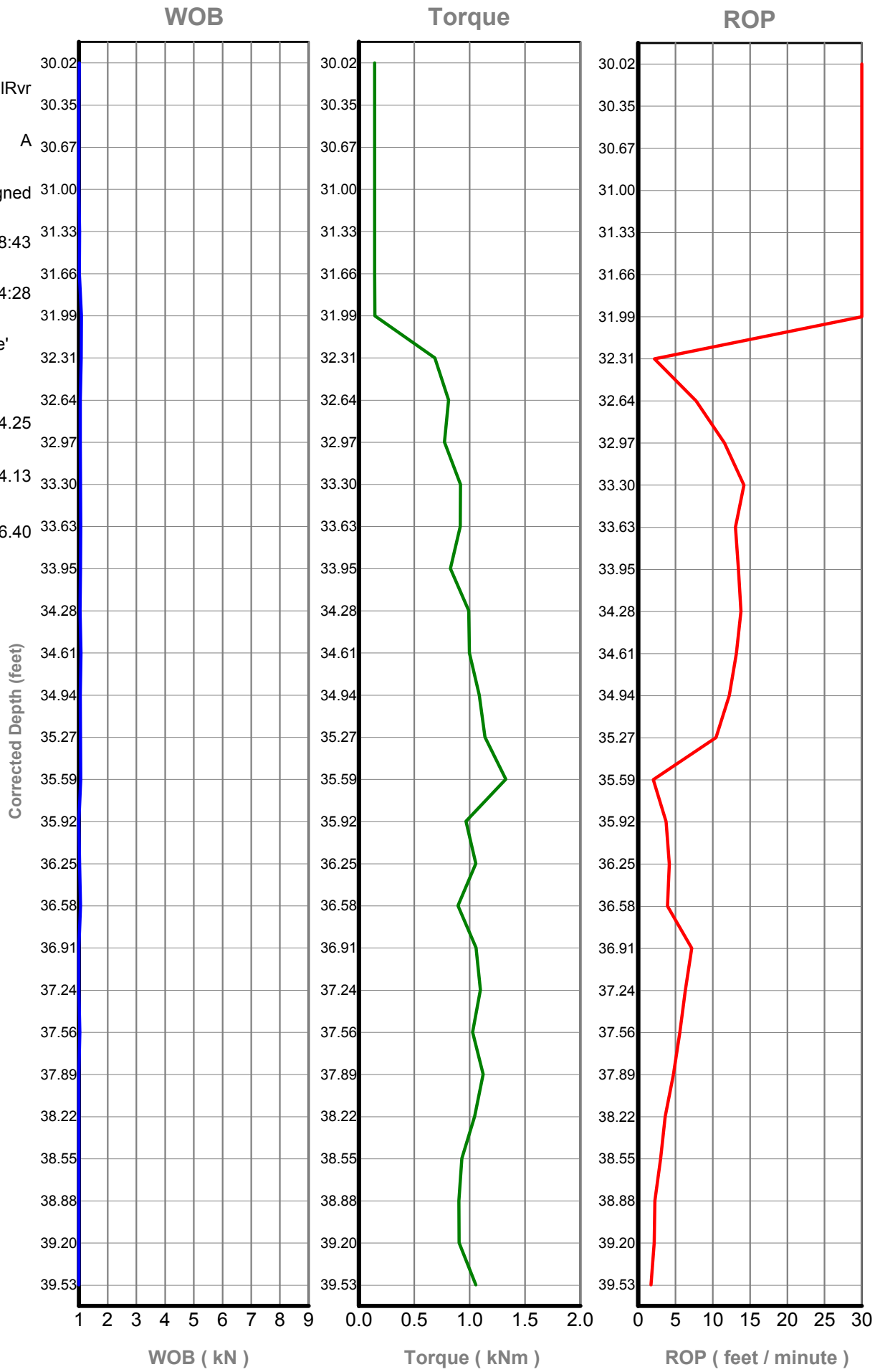
**End Date:**
4/29/2015 10:04:28

**Operator Note:**
'6.4 6.4 a Auto Complete'

**Northing:**
362,234.25

**Easting:**
244,784.13

**Tide (feet):**
6.40



## Hole: K90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:48:02 | 31.50 | 30.10 | 1,232 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 15:48:02 | 31.82 | 30.42 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:02 | 32.15 | 30.75 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:02 | 32.48 | 31.08 | 1,215 | 0.26 | 0.36 | 66.5 |
| 4/29/2015 15:48:03 | 32.81 | 31.41 | 1,215 | 0.26 | 0.36 | 66.5 |
| 4/29/2015 15:48:03 | 33.14 | 31.74 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 15:48:03 | 33.46 | 32.06 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 15:48:03 | 33.79 | 32.39 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 15:48:04 | 34.12 | 32.72 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 15:48:04 | 34.45 | 33.05 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 15:48:04 | 34.78 | 33.38 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 15:48:05 | 35.11 | 33.71 | 1,229 | 0.26 | 0.36 | 67.2 |
| 4/29/2015 15:48:05 | 35.43 | 34.03 | 1,234 | 0.26 | 0.38 | 67.5 |
| 4/29/2015 15:48:05 | 35.76 | 34.36 | 1,234 | 0.26 | 0.38 | 67.5 |
| 4/29/2015 15:48:05 | 36.09 | 34.69 | 1,228 | 0.26 | 0.38 | 67.2 |
| 4/29/2015 15:48:06 | 36.42 | 35.02 | 1,223 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 15:48:07 | 36.75 | 35.35 | 1,223 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 15:48:07 | 37.07 | 35.67 | 1,216 | 0.26 | 0.36 | 66.5 |
| 4/29/2015 15:48:07 | 37.40 | 36.00 | 1,216 | 0.26 | 0.36 | 66.5 |
| 4/29/2015 15:48:07 | 37.73 | 36.33 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:08 | 38.06 | 36.66 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:08 | 38.39 | 36.99 | 1,220 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 15:48:08 | 38.71 | 37.31 | 1,220 | 0.26 | 0.37 | 66.7 |
| 4/29/2015 15:48:08 | 39.04 | 37.64 | 1,220 | 0.26 | 0.36 | 66.7 |
| 4/29/2015 15:48:09 | 39.37 | 37.97 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 15:48:09 | 39.70 | 38.30 | 1,229 | 0.25 | 0.37 | 67.2 |
| 4/29/2015 15:48:09 | 40.03 | 38.63 | 1,234 | 0.26 | 0.38 | 67.5 |
| 4/29/2015 15:48:10 | 40.35 | 38.95 | 1,234 | 0.26 | 0.38 | 67.5 |
| 4/29/2015 15:48:10 | 40.68 | 39.28 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 15:48:10 | 41.01 | 39.61 | 1,226 | 0.26 | 0.36 | 67.0 |
| 4/29/2015 15:48:10 | 41.34 | 39.94 | 1,231 | 0.26 | 0.35 | 67.3 |
| 4/29/2015 15:48:11 | 41.67 | 40.27 | 1,231 | 0.26 | 0.35 | 67.3 |
| 4/29/2015 15:48:11 | 41.99 | 40.59 | 1,224 | 0.26 | 0.37 | 66.9 |
| 4/29/2015 15:48:11 | 42.32 | 40.92 | 1,231 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 15:48:12 | 42.65 | 41.25 | 1,231 | 0.26 | 0.37 | 67.3 |
| 4/29/2015 15:48:12 | 42.98 | 41.58 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:12 | 43.31 | 41.91 | 1,229 | 0.26 | 0.37 | 67.2 |
| 4/29/2015 15:48:12 | 43.64 | 42.24 | 1,234 | 0.26 | 0.37 | 67.5 |
| 4/29/2015 15:48:13 | 43.96 | 42.56 | 1,234 | 0.26 | 0.37 | 67.5 |
| 4/29/2015 15:48:13 | 44.29 | 42.89 | 1,234 | 0.26 | 0.35 | 67.5 |
| 4/29/2015 15:48:13 | 44.62 | 43.22 | 1,234 | 0.26 | 0.35 | 67.5 |
| 4/29/2015 15:48:13 | 44.95 | 43.55 | 1,247 | 0.26 | 0.35 | 68.2 |
| 4/29/2015 15:48:14 | 45.28 | 43.88 | 1,240 | 0.26 | 0.36 | 67.8 |
| 4/29/2015 15:48:14 | 45.60 | 44.20 | 1,240 | 0.26 | 0.36 | 67.8 |
| 4/29/2015 15:48:14 | 45.93 | 44.53 | 1,240 | 0.24 | 0.40 | 67.8 |
| 4/29/2015 15:48:15 | 46.26 | 44.86 | 1,240 | 0.24 | 0.40 | 67.8 |
| 4/29/2015 15:48:29 | 46.59 | 45.19 | 84 | 3.43 | 0.46 | 4.6 |
| 4/29/2015 15:48:31 | 46.92 | 45.52 | 122 | 7.34 | 0.45 | 6.7 |
| 4/29/2015 15:48:33 | 47.24 | 45.84 | 209 | 2.69 | 0.46 | 11.4 |
| 4/29/2015 15:48:39 | 47.57 | 46.17 | 60 | 3.24 | 0.46 | 3.3 |
| 4/29/2015 15:48:43 | 47.90 | 46.50 | 78 | 3.45 | 0.45 | 4.3 |
| 4/29/2015 15:48:47 | 48.23 | 46.83 | 81 | 3.41 | 0.46 | 4.4 |
| 4/29/2015 15:48:52 | 48.56 | 47.16 | 81 | 3.45 | 0.46 | 4.4 |
| 4/29/2015 15:48:56 | 48.88 | 47.48 | 98 | 3.37 | 0.46 | 5.4 |
| 4/29/2015 15:49:00 | 49.21 | 47.81 | 105 | 3.50 | 0.46 | 5.8 |
| 4/29/2015 15:49:02 | 49.54 | 48.14 | 125 | 3.86 | 0.46 | 6.8 |
| 4/29/2015 15:49:04 | 49.87 | 48.47 | 176 | 3.66 | 0.45 | 9.6 |
| 4/29/2015 15:49:11 | 50.20 | 48.80 | 41 | 2.67 | 0.46 | 2.2 |
| 4/29/2015 15:49:16 | 50.53 | 49.13 | 69 | 2.54 | 0.46 | 3.8 |
| 4/29/2015 15:49:25 | 50.85 | 49.45 | 40 | 2.56 | 0.46 | 2.2 |
| 4/29/2015 15:49:32 | 51.18 | 49.78 | 39 | 2.69 | 0.47 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 15:49:38 | 51.38 | 49.98 | 38 | 2.88 | 0.46 | 2.1 |

## K90 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:44:42

**End Date:**
4/29/2015 15:50:37

**Operator Note:**
'1.4 1.6 b Rock'

**Northing:**
361,612.69

**Easting:**
244,549.16

**Tide (feet):**
1.40



## Hole: K91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:37:03 | 31.82 | 30.32 | 1,223 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 15:37:03 | 32.15 | 30.65 | 1,214 | 0.25 | 0.37 | 66.4 |
| 4/29/2015 15:37:03 | 32.48 | 30.98 | 1,214 | 0.25 | 0.37 | 66.4 |
| 4/29/2015 15:37:03 | 32.81 | 31.31 | 1,220 | 0.26 | 0.36 | 66.7 |
| 4/29/2015 15:37:04 | 33.14 | 31.64 | 1,220 | 0.26 | 0.36 | 66.7 |
| 4/29/2015 15:37:04 | 33.46 | 31.96 | 1,213 | 0.26 | 0.37 | 66.3 |
| 4/29/2015 15:37:04 | 33.79 | 32.29 | 1,223 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 15:37:05 | 34.12 | 32.62 | 1,223 | 0.26 | 0.36 | 66.9 |
| 4/29/2015 15:37:05 | 34.45 | 32.95 | 1,210 | 0.26 | 0.38 | 66.2 |
| 4/29/2015 15:37:05 | 34.78 | 33.28 | 1,210 | 0.26 | 0.38 | 66.2 |
| 4/29/2015 15:37:05 | 35.11 | 33.61 | 1,210 | 0.26 | 0.37 | 66.2 |
| 4/29/2015 15:37:06 | 35.43 | 33.93 | 1,210 | 0.26 | 0.37 | 66.2 |
| 4/29/2015 15:37:06 | 35.76 | 34.26 | 1,220 | 0.33 | 0.38 | 66.7 |
| 4/29/2015 15:37:06 | 36.09 | 34.59 | 1,199 | 0.35 | 0.40 | 65.5 |
| 4/29/2015 15:37:07 | 36.42 | 34.92 | 1,199 | 0.35 | 0.40 | 65.5 |
| 4/29/2015 15:37:07 | 36.75 | 35.25 | 1,199 | 0.30 | 0.40 | 65.5 |
| 4/29/2015 15:37:07 | 37.07 | 35.57 | 1,199 | 0.30 | 0.40 | 65.5 |
| 4/29/2015 15:37:07 | 37.40 | 35.90 | 1,205 | 0.25 | 0.38 | 65.9 |
| 4/29/2015 15:37:08 | 37.73 | 36.23 | 1,205 | 0.25 | 0.38 | 65.9 |
| 4/29/2015 15:37:08 | 38.06 | 36.56 | 1,173 | 0.27 | 0.37 | 64.1 |
| 4/29/2015 15:37:09 | 38.39 | 36.89 | 1,173 | 0.27 | 0.37 | 64.1 |
| 4/29/2015 15:37:08 | 38.71 | 37.21 | 1,187 | 0.26 | 0.37 | 64.9 |
| 4/29/2015 15:37:09 | 39.04 | 37.54 | 1,187 | 0.26 | 0.36 | 64.9 |
| 4/29/2015 15:37:09 | 39.37 | 37.87 | 1,187 | 0.26 | 0.36 | 64.9 |
| 4/29/2015 15:37:10 | 39.70 | 38.20 | 1,204 | 0.25 | 0.37 | 65.8 |
| 4/29/2015 15:37:10 | 40.03 | 38.53 | 1,204 | 0.25 | 0.37 | 65.8 |
| 4/29/2015 15:37:10 | 40.35 | 38.85 | 1,181 | 0.40 | 0.40 | 64.6 |
| 4/29/2015 15:37:11 | 40.68 | 39.18 | 1,181 | 0.40 | 0.40 | 64.6 |
| 4/29/2015 15:37:11 | 41.01 | 39.51 | 1,181 | 0.31 | 0.41 | 64.6 |
| 4/29/2015 15:37:11 | 41.34 | 39.84 | 1,181 | 0.31 | 0.41 | 64.6 |
| 4/29/2015 15:37:11 | 41.67 | 40.17 | 1,203 | 0.33 | 0.39 | 65.8 |
| 4/29/2015 15:37:12 | 41.99 | 40.49 | 1,231 | 0.30 | 0.40 | 67.3 |
| 4/29/2015 15:37:12 | 42.32 | 40.82 | 1,231 | 0.30 | 0.40 | 67.3 |
| 4/29/2015 15:37:12 | 42.65 | 41.15 | 1,238 | 0.35 | 0.41 | 67.7 |
| 4/29/2015 15:37:13 | 42.98 | 41.48 | 1,238 | 0.35 | 0.41 | 67.7 |
| 4/29/2015 15:37:13 | 43.31 | 41.81 | 1,215 | 0.27 | 0.36 | 66.5 |
| 4/29/2015 15:37:13 | 43.64 | 42.14 | 1,215 | 0.27 | 0.36 | 66.5 |
| 4/29/2015 15:37:13 | 43.96 | 42.46 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 15:37:14 | 44.29 | 42.79 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 15:37:14 | 44.62 | 43.12 | 1,216 | 0.26 | 0.36 | 66.5 |
| 4/29/2015 15:37:14 | 44.95 | 43.45 | 1,219 | 0.26 | 0.36 | 66.6 |
| 4/29/2015 15:37:15 | 45.28 | 43.78 | 1,219 | 0.26 | 0.36 | 66.6 |
| 4/29/2015 15:37:15 | 45.60 | 44.10 | 1,217 | 0.26 | 0.36 | 66.6 |
| 4/29/2015 15:37:15 | 45.93 | 44.43 | 1,217 | 0.26 | 0.36 | 66.6 |
| 4/29/2015 15:37:15 | 46.26 | 44.76 | 1,217 | 0.25 | 0.37 | 66.6 |
| 4/29/2015 15:37:16 | 46.59 | 45.09 | 1,217 | 0.25 | 0.37 | 66.6 |
| 4/29/2015 15:37:16 | 46.92 | 45.42 | 1,233 | 0.26 | 0.43 | 67.4 |
| 4/29/2015 15:37:25 | 47.24 | 45.74 | 102 | 3.09 | 0.44 | 5.6 |
| 4/29/2015 15:37:27 | 47.57 | 46.07 | 183 | 3.55 | 0.45 | 10.0 |
| 4/29/2015 15:37:30 | 47.90 | 46.40 | 150 | 3.88 | 0.45 | 8.2 |
| 4/29/2015 15:37:33 | 48.23 | 46.73 | 110 | 3.41 | 0.46 | 6.0 |
| 4/29/2015 15:37:37 | 48.56 | 47.06 | 103 | 3.48 | 0.45 | 5.7 |
| 4/29/2015 15:37:40 | 48.88 | 47.38 | 118 | 3.21 | 0.45 | 6.5 |
| 4/29/2015 15:37:44 | 49.21 | 47.71 | 47 | 2.58 | 0.46 | 2.5 |
| 4/29/2015 15:37:53 | 49.54 | 48.04 | 38 | 2.79 | 0.47 | 2.1 |
| 4/29/2015 15:38:01 | 49.87 | 48.37 | 43 | 2.38 | 0.47 | 2.4 |
| 4/29/2015 15:38:09 | 50.18 | 48.68 | 35 | 2.37 | 0.46 | 1.9 |

## K91 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:35:24

**End Date:**
4/29/2015 15:39:17

**Operator Note:**
'1.5 1.8 b Rock'

**Northing:**
361,665.41

**Easting:**
244,597.95

**Tide (feet):**
1.50



## Hole: K92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 15:20:16 | 31.82 | 30.02 | 1,194 | 0.25 | 0.37 | 65.3 |
| 4/29/2015 15:20:16 | 32.15 | 30.35 | 1,194 | 0.27 | 0.38 | 65.3 |
| 4/29/2015 15:20:17 | 32.48 | 30.68 | 1,202 | 0.25 | 0.35 | 65.8 |
| 4/29/2015 15:20:17 | 32.81 | 31.01 | 1,202 | 0.25 | 0.35 | 65.8 |
| 4/29/2015 15:20:17 | 33.14 | 31.34 | 1,200 | 0.25 | 0.38 | 65.6 |
| 4/29/2015 15:20:18 | 33.46 | 31.66 | 1,200 | 0.25 | 0.38 | 65.6 |
| 4/29/2015 15:20:18 | 33.79 | 31.99 | 1,200 | 0.25 | 0.37 | 65.6 |
| 4/29/2015 15:20:18 | 34.12 | 32.32 | 1,200 | 0.25 | 0.37 | 65.6 |
| 4/29/2015 15:20:18 | 34.45 | 32.65 | 1,202 | 0.25 | 0.35 | 65.8 |
| 4/29/2015 15:20:19 | 34.78 | 32.98 | 1,208 | 0.24 | 0.37 | 66.1 |
| 4/29/2015 15:20:20 | 35.11 | 33.31 | 1,208 | 0.24 | 0.37 | 66.1 |
| 4/29/2015 15:20:20 | 35.43 | 33.63 | 1,200 | 0.25 | 0.38 | 65.6 |
| 4/29/2015 15:20:20 | 35.76 | 33.96 | 1,200 | 0.25 | 0.38 | 65.6 |
| 4/29/2015 15:20:20 | 36.09 | 34.29 | 1,204 | 0.25 | 0.38 | 65.8 |
| 4/29/2015 15:20:21 | 36.42 | 34.62 | 1,204 | 0.25 | 0.38 | 65.8 |
| 4/29/2015 15:20:21 | 36.75 | 34.95 | 1,200 | 0.25 | 0.36 | 65.6 |
| 4/29/2015 15:20:21 | 37.07 | 35.27 | 1,203 | 0.25 | 0.36 | 65.8 |
| 4/29/2015 15:20:22 | 37.40 | 35.60 | 1,203 | 0.25 | 0.36 | 65.8 |
| 4/29/2015 15:20:22 | 37.73 | 35.93 | 1,194 | 0.25 | 0.35 | 65.3 |
| 4/29/2015 15:20:22 | 38.06 | 36.26 | 1,194 | 0.25 | 0.35 | 65.3 |
| 4/29/2015 15:20:22 | 38.39 | 36.59 | 1,199 | 0.25 | 0.37 | 65.6 |
| 4/29/2015 15:20:23 | 38.71 | 36.91 | 1,199 | 0.25 | 0.37 | 65.6 |
| 4/29/2015 15:20:23 | 39.04 | 37.24 | 1,198 | 0.25 | 0.38 | 65.5 |
| 4/29/2015 15:20:23 | 39.37 | 37.57 | 1,201 | 0.24 | 0.37 | 65.7 |
| 4/29/2015 15:20:24 | 39.70 | 37.90 | 1,201 | 0.24 | 0.37 | 65.7 |
| 4/29/2015 15:20:24 | 40.03 | 38.23 | 1,191 | 0.25 | 0.38 | 65.2 |
| 4/29/2015 15:20:24 | 40.35 | 38.55 | 1,191 | 0.25 | 0.38 | 65.2 |
| 4/29/2015 15:20:24 | 40.68 | 38.88 | 1,191 | 0.25 | 0.38 | 65.2 |
| 4/29/2015 15:20:25 | 41.01 | 39.21 | 1,191 | 0.25 | 0.38 | 65.2 |
| 4/29/2015 15:20:25 | 41.34 | 39.54 | 1,188 | 0.25 | 0.34 | 65.0 |
| 4/29/2015 15:20:25 | 41.67 | 39.87 | 1,204 | 0.03 | 0.38 | 65.8 |
| 4/29/2015 15:20:26 | 41.99 | 40.19 | 1,204 | 0.03 | 0.38 | 65.8 |
| 4/29/2015 15:20:26 | 42.32 | 40.52 | 1,216 | 0.25 | 0.37 | 66.5 |
| 4/29/2015 15:20:26 | 42.65 | 40.85 | 1,216 | 0.25 | 0.37 | 66.5 |
| 4/29/2015 15:20:26 | 42.98 | 41.18 | 1,190 | 0.25 | 0.36 | 65.1 |
| 4/29/2015 15:20:27 | 43.31 | 41.51 | 1,190 | 0.25 | 0.36 | 65.1 |
| 4/29/2015 15:20:27 | 43.64 | 41.84 | 1,204 | 0.25 | 0.37 | 65.8 |
| 4/29/2015 15:20:27 | 43.96 | 42.16 | 1,204 | 0.19 | 0.37 | 65.8 |
| 4/29/2015 15:20:28 | 44.29 | 42.49 | 1,204 | 0.19 | 0.37 | 65.8 |
| 4/29/2015 15:20:28 | 44.62 | 42.82 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 15:20:29 | 44.95 | 43.15 | 1,220 | 0.25 | 0.36 | 66.7 |
| 4/29/2015 15:20:28 | 45.28 | 43.48 | 1,186 | 0.25 | 0.36 | 64.8 |
| 4/29/2015 15:20:29 | 45.60 | 43.80 | 1,186 | 0.25 | 0.36 | 64.8 |
| 4/29/2015 15:20:29 | 45.93 | 44.13 | 1,186 | 0.25 | 0.36 | 64.8 |
| 4/29/2015 15:20:29 | 46.26 | 44.46 | 1,186 | 0.25 | 0.36 | 64.8 |
| 4/29/2015 15:20:29 | 46.59 | 44.79 | 1,187 | 0.23 | 0.42 | 64.9 |
| 4/29/2015 15:20:52 | 46.92 | 45.12 | 79 | 4.55 | 0.45 | 4.3 |
| 4/29/2015 15:20:52 | 47.24 | 45.44 | 194 | 3.03 | 0.46 | 10.6 |
| 4/29/2015 15:21:00 | 47.57 | 45.77 | 13 | 2.76 | 0.42 | 0.7 |
| 4/29/2015 15:21:21 | 47.90 | 46.10 | 44 | 2.51 | 0.46 | 2.4 |
| 4/29/2015 15:21:30 | 48.23 | 46.43 | 38 | 2.80 | 0.47 | 2.1 |
| 4/29/2015 15:21:38 | 48.56 | 46.76 | 43 | 2.67 | 0.47 | 2.4 |
| 4/29/2015 15:21:42 | 48.72 | 46.92 | 52 | 3.07 | 0.46 | 2.8 |

## K92 - Summary

**Pattern Number:**
AreaK_Lane13-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 15:17:55

**End Date:**
4/29/2015 15:22:47

**Operator Note:**
'1.8 2.0 b Auto Complete'

**Northing:**
361,724.06

**Easting:**
244,642.41

**Tide (feet):**
1.80



## Hole: K93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:41:54 | 36.42 | 30.22 | 1,250 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 10:41:54 | 36.75 | 30.55 | 1,264 | 0.27 | 0.36 | 69.1 |
| 4/29/2015 10:41:55 | 37.07 | 30.87 | 1,247 | 0.26 | 0.38 | 68.2 |
| 4/29/2015 10:41:55 | 37.40 | 31.20 | 1,247 | 0.26 | 0.38 | 68.2 |
| 4/29/2015 10:41:55 | 37.73 | 31.53 | 1,258 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 10:41:56 | 38.06 | 31.86 | 1,258 | 0.26 | 0.36 | 68.8 |
| 4/29/2015 10:41:56 | 38.39 | 32.19 | 1,255 | 0.26 | 0.37 | 68.6 |
| 4/29/2015 10:41:56 | 38.71 | 32.51 | 1,255 | 0.26 | 0.37 | 68.6 |
| 4/29/2015 10:41:56 | 39.04 | 32.84 | 1,261 | 0.26 | 0.38 | 68.9 |
| 4/29/2015 10:41:57 | 39.37 | 33.17 | 1,261 | 0.26 | 0.38 | 68.9 |
| 4/29/2015 10:41:57 | 39.70 | 33.50 | 1,264 | 0.26 | 0.37 | 69.1 |
| 4/29/2015 10:41:57 | 40.03 | 33.83 | 1,264 | 0.26 | 0.37 | 69.1 |
| 4/29/2015 10:41:57 | 40.35 | 34.15 | 1,274 | 0.26 | 0.35 | 69.7 |
| 4/29/2015 10:41:58 | 40.68 | 34.48 | 1,274 | 0.26 | 0.35 | 69.7 |
| 4/29/2015 10:41:58 | 41.01 | 34.81 | 1,273 | 0.26 | 0.36 | 69.6 |
| 4/29/2015 10:41:58 | 41.34 | 35.14 | 1,266 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 10:41:59 | 41.67 | 35.47 | 1,266 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 10:41:59 | 41.99 | 35.79 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 10:41:59 | 42.32 | 36.12 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 10:41:59 | 42.65 | 36.45 | 1,266 | 0.26 | 0.38 | 69.2 |
| 4/29/2015 10:42:00 | 42.98 | 36.78 | 1,266 | 0.26 | 0.38 | 69.2 |
| 4/29/2015 10:42:00 | 43.31 | 37.11 | 1,263 | 0.26 | 0.37 | 69.1 |
| 4/29/2015 10:42:00 | 43.64 | 37.44 | 1,263 | 0.26 | 0.37 | 69.1 |
| 4/29/2015 10:42:00 | 43.96 | 37.76 | 1,253 | 0.27 | 0.38 | 68.5 |
| 4/29/2015 10:42:01 | 44.29 | 38.09 | 1,253 | 0.27 | 0.38 | 68.5 |
| 4/29/2015 10:42:01 | 44.62 | 38.42 | 1,253 | 0.27 | 0.36 | 68.5 |
| 4/29/2015 10:42:01 | 44.95 | 38.75 | 1,266 | 0.26 | 0.37 | 69.2 |
| 4/29/2015 10:42:02 | 45.28 | 39.08 | 1,266 | 0.26 | 0.37 | 69.2 |
| 4/29/2015 10:42:02 | 45.60 | 39.40 | 1,266 | 0.27 | 0.36 | 69.2 |
| 4/29/2015 10:42:02 | 45.93 | 39.73 | 1,266 | 0.27 | 0.36 | 69.2 |
| 4/29/2015 10:42:02 | 46.26 | 40.06 | 1,266 | 0.27 | 0.37 | 69.2 |
| 4/29/2015 10:42:03 | 46.59 | 40.39 | 1,266 | 0.27 | 0.37 | 69.2 |
| 4/29/2015 10:42:03 | 46.92 | 40.72 | 1,269 | 0.27 | 0.36 | 69.4 |
| 4/29/2015 10:42:03 | 47.24 | 41.04 | 1,269 | 0.27 | 0.36 | 69.4 |
| 4/29/2015 10:42:03 | 47.57 | 41.37 | 1,282 | 0.26 | 0.38 | 70.1 |
| 4/29/2015 10:42:04 | 47.90 | 41.70 | 1,282 | 0.26 | 0.38 | 70.1 |
| 4/29/2015 10:42:04 | 48.23 | 42.03 | 1,262 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 10:42:05 | 48.56 | 42.36 | 1,262 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 10:42:04 | 48.88 | 42.68 | 1,252 | 0.26 | 0.36 | 68.4 |
| 4/29/2015 10:42:05 | 49.21 | 43.01 | 1,267 | 0.27 | 0.37 | 69.3 |
| 4/29/2015 10:42:06 | 49.54 | 43.34 | 1,267 | 0.27 | 0.37 | 69.3 |
| 4/29/2015 10:42:06 | 49.87 | 43.67 | 1,267 | 0.27 | 0.37 | 69.3 |
| 4/29/2015 10:42:06 | 50.20 | 44.00 | 1,267 | 0.27 | 0.37 | 69.3 |
| 4/29/2015 10:42:06 | 50.53 | 44.33 | 1,261 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 10:42:07 | 50.85 | 44.65 | 1,261 | 0.26 | 0.36 | 69.0 |
| 4/29/2015 10:42:07 | 51.18 | 44.98 | 1,268 | 0.24 | 0.45 | 69.4 |
| 4/29/2015 10:42:18 | 51.51 | 45.31 | 53 | 4.57 | 0.46 | 2.9 |
| 4/29/2015 10:42:22 | 51.84 | 45.64 | 33 | 3.43 | 0.45 | 1.8 |
| 4/29/2015 10:42:24 | 52.17 | 45.97 | 152 | 3.76 | 0.46 | 8.3 |
| 4/29/2015 10:42:30 | 52.49 | 46.29 | 0 | 3.85 | 0.45 | 0.0 |
| 4/29/2015 10:42:37 | 52.82 | 46.62 | 0 | 1.79 | 0.38 | 0.0 |
| 4/29/2015 10:42:45 | 53.15 | 46.95 | 75 | 3.67 | 0.47 | 4.1 |
| 4/29/2015 10:42:50 | 53.48 | 47.28 | 71 | 3.01 | 0.46 | 3.9 |
| 4/29/2015 10:42:55 | 53.81 | 47.61 | 66 | 2.90 | 0.45 | 3.6 |
| 4/29/2015 10:43:11 | 54.13 | 47.93 | 63 | 3.44 | 0.46 | 3.5 |
| 4/29/2015 10:43:15 | 54.46 | 48.26 | 87 | 3.17 | 0.46 | 4.8 |
| 4/29/2015 10:43:21 | 54.79 | 48.59 | 64 | 4.02 | 0.46 | 3.5 |
| 4/29/2015 10:43:32 | 55.12 | 48.92 | 32 | 2.86 | 0.47 | 1.8 |
| 4/29/2015 10:43:43 | 55.45 | 49.25 | 26 | 2.69 | 0.47 | 1.4 |
| 4/29/2015 10:43:45 | 55.48 | 49.28 | 29 | 2.83 | 0.47 | 1.6 |

## K93 - Summary

**Pattern Number:**
AreaK_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:40:20

**End Date:**
4/29/2015 10:44:48

**Operator Note:**
'6.2 6.3 b Rock'

**Northing:**
361,971.70

**Easting:**
244,961.00

**Tide (feet):**
6.20



## Hole: K94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/29/2015 10:55:36 | 36.09 | 30.09 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 10:55:37 | 36.42 | 30.42 | 1,245 | 0.26 | 0.37 | 68.1 |
| 4/29/2015 10:55:37 | 36.75 | 30.75 | 1,242 | 0.26 | 0.36 | 67.9 |
| 4/29/2015 10:55:37 | 37.07 | 31.07 | 1,242 | 0.26 | 0.36 | 67.9 |
| 4/29/2015 10:55:38 | 37.40 | 31.40 | 1,250 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 10:55:38 | 37.73 | 31.73 | 1,250 | 0.26 | 0.36 | 68.3 |
| 4/29/2015 10:55:38 | 38.06 | 32.06 | 1,279 | 0.27 | 0.37 | 69.9 |
| 4/29/2015 10:55:39 | 38.39 | 32.39 | 1,279 | 0.27 | 0.37 | 69.9 |
| 4/29/2015 10:55:39 | 38.71 | 32.71 | 1,268 | 0.27 | 0.36 | 69.3 |
| 4/29/2015 10:55:39 | 39.04 | 33.04 | 1,268 | 0.27 | 0.36 | 69.3 |
| 4/29/2015 10:55:39 | 39.37 | 33.37 | 1,263 | 0.26 | 0.38 | 69.1 |
| 4/29/2015 10:55:40 | 39.70 | 33.70 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 10:55:40 | 40.03 | 34.03 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 10:55:40 | 40.35 | 34.35 | 1,253 | 0.26 | 0.38 | 68.5 |
| 4/29/2015 10:55:41 | 40.68 | 34.68 | 1,253 | 0.26 | 0.38 | 68.5 |
| 4/29/2015 10:55:41 | 41.01 | 35.01 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:55:41 | 41.34 | 35.34 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:55:41 | 41.67 | 35.67 | 1,256 | 0.27 | 0.36 | 68.7 |
| 4/29/2015 10:55:42 | 41.99 | 35.99 | 1,256 | 0.27 | 0.36 | 68.7 |
| 4/29/2015 10:55:42 | 42.32 | 36.32 | 1,263 | 0.27 | 0.37 | 69.1 |
| 4/29/2015 10:55:42 | 42.65 | 36.65 | 1,263 | 0.27 | 0.37 | 69.1 |
| 4/29/2015 10:55:42 | 42.98 | 36.98 | 1,263 | 0.26 | 0.36 | 69.1 |
| 4/29/2015 10:55:43 | 43.31 | 37.31 | 1,266 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 10:55:43 | 43.64 | 37.64 | 1,266 | 0.26 | 0.36 | 69.2 |
| 4/29/2015 10:55:43 | 43.96 | 37.96 | 1,268 | 0.27 | 0.38 | 69.3 |
| 4/29/2015 10:55:44 | 44.29 | 38.29 | 1,268 | 0.27 | 0.38 | 69.3 |
| 4/29/2015 10:55:44 | 44.62 | 38.62 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 10:55:44 | 44.95 | 38.95 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 10:55:44 | 45.28 | 39.28 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 10:55:45 | 45.60 | 39.60 | 1,246 | 0.27 | 0.37 | 68.1 |
| 4/29/2015 10:55:45 | 45.93 | 39.93 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 10:55:45 | 46.26 | 40.26 | 1,255 | 0.26 | 0.36 | 68.6 |
| 4/29/2015 10:55:45 | 46.59 | 40.59 | 1,262 | 0.27 | 0.38 | 69.0 |
| 4/29/2015 10:55:46 | 46.92 | 40.92 | 1,262 | 0.27 | 0.38 | 69.0 |
| 4/29/2015 10:55:46 | 47.24 | 41.24 | 1,263 | 0.27 | 0.36 | 69.0 |
| 4/29/2015 10:55:46 | 47.57 | 41.57 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:55:47 | 47.90 | 41.90 | 1,258 | 0.27 | 0.37 | 68.8 |
| 4/29/2015 10:55:47 | 48.23 | 42.23 | 1,279 | 0.27 | 0.37 | 69.9 |
| 4/29/2015 10:55:47 | 48.56 | 42.56 | 1,279 | 0.27 | 0.37 | 69.9 |
| 4/29/2015 10:55:47 | 48.88 | 42.88 | 1,263 | 0.27 | 0.36 | 69.1 |
| 4/29/2015 10:55:48 | 49.21 | 43.21 | 1,263 | 0.27 | 0.36 | 69.1 |
| 4/29/2015 10:55:48 | 49.54 | 43.54 | 1,266 | 0.27 | 0.37 | 69.2 |
| 4/29/2015 10:55:49 | 49.87 | 43.87 | 1,266 | 0.27 | 0.37 | 69.2 |
| 4/29/2015 10:55:49 | 50.20 | 44.20 | 1,263 | 0.27 | 0.37 | 69.1 |
| 4/29/2015 10:55:49 | 50.53 | 44.53 | 1,263 | 0.27 | 0.37 | 69.1 |
| 4/29/2015 10:55:49 | 50.85 | 44.85 | 1,260 | 0.27 | 0.36 | 68.9 |
| 4/29/2015 10:55:50 | 51.18 | 45.18 | 1,260 | 0.27 | 0.38 | 68.9 |
| 4/29/2015 10:55:50 | 51.51 | 45.51 | 1,260 | 0.27 | 0.38 | 68.9 |
| 4/29/2015 10:55:50 | 51.84 | 45.84 | 1,260 | 0.27 | 0.36 | 68.9 |
| 4/29/2015 10:55:51 | 52.17 | 46.17 | 1,260 | 0.27 | 0.36 | 68.9 |
| 4/29/2015 10:56:07 | 52.49 | 46.49 | 0 | 2.88 | 0.46 | 0.0 |
| 4/29/2015 10:56:13 | 52.82 | 46.82 | 67 | 3.41 | 0.46 | 3.6 |
| 4/29/2015 10:56:17 | 53.15 | 47.15 | 81 | 4.32 | 0.47 | 4.4 |
| 4/29/2015 10:56:23 | 53.48 | 47.48 | 64 | 3.35 | 0.46 | 3.5 |
| 4/29/2015 10:56:28 | 53.81 | 47.81 | 58 | 3.06 | 0.46 | 3.2 |
| 4/29/2015 10:56:32 | 54.13 | 48.13 | 82 | 4.02 | 0.45 | 4.5 |
| 4/29/2015 10:56:37 | 54.46 | 48.46 | 12 | 4.81 | 0.47 | 0.6 |
| 4/29/2015 10:56:41 | 54.79 | 48.79 | 102 | 3.56 | 0.46 | 5.6 |
| 4/29/2015 10:56:47 | 55.12 | 49.12 | 37 | 3.41 | 0.47 | 2.0 |
| 4/29/2015 10:56:58 | 55.45 | 49.45 | 35 | 2.46 | 0.47 | 1.9 |
| 4/29/2015 10:57:07 | 55.77 | 49.77 | 41 | 2.81 | 0.46 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/29/2015 | 10:57:13 | 56.10 | 50.10 | 72 | 3.14 | 0.47 | 3.9 |
| 4/29/2015 | 10:57:17 | 56.43 | 50.43 | 52 | 2.99 | 0.47 | 2.8 |
| 4/29/2015 | 10:57:23 | 56.68 | 50.68 | 43 | 3.12 | 0.47 | 2.4 |

## K94 - Summary

**Pattern Number:**
AreaK_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/29/2015 10:53:55

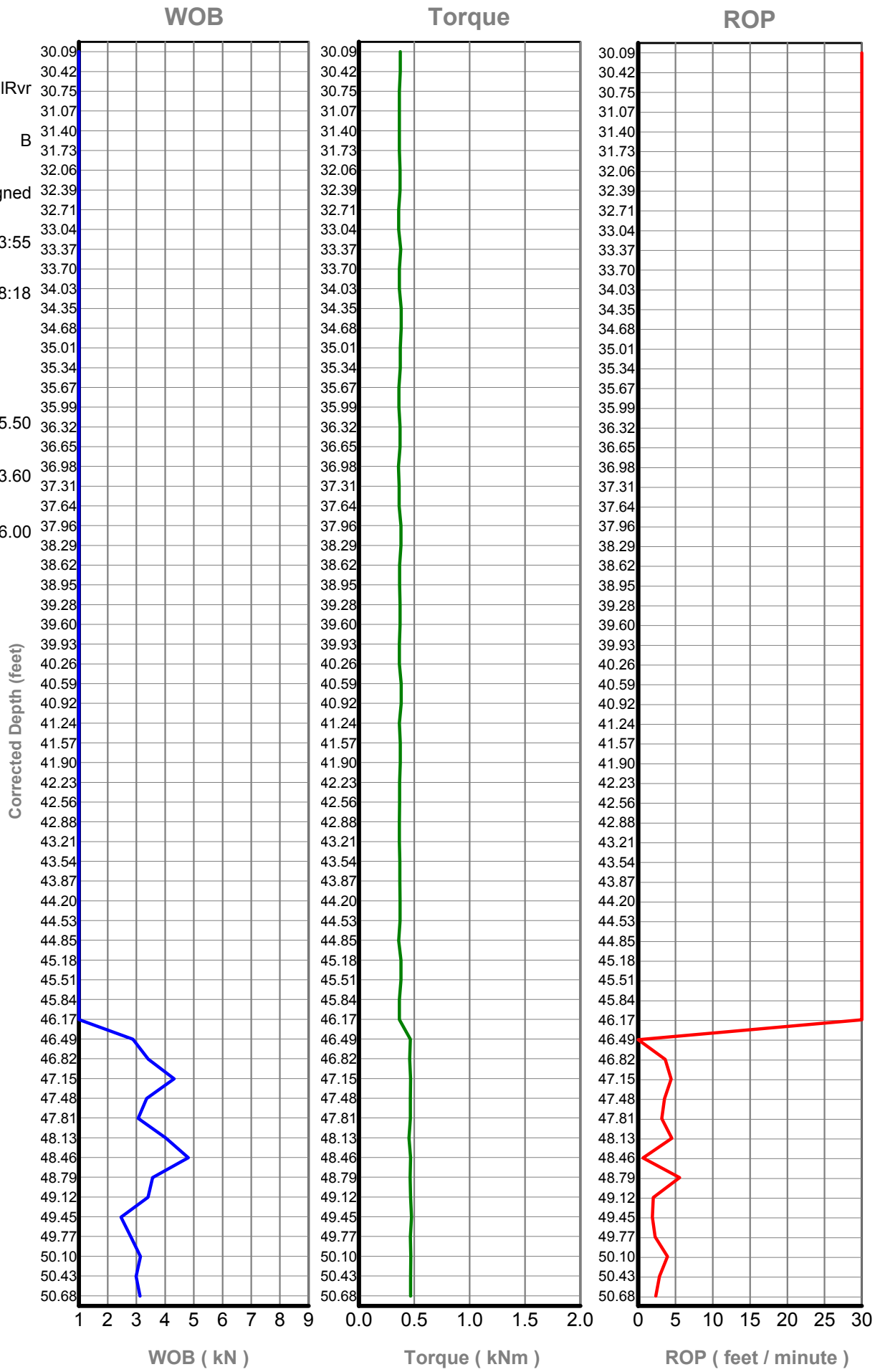
**End Date:**
4/29/2015 10:58:18

**Operator Note:**
'6 6.1 b Auto Complete'

**Northing:**
362,035.50

**Easting:**
245,013.60

**Tide (feet):**
6.00



## Hole: K95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:59:16 | 30.84 | 30.04 | 1,150 | 1.87 | 0.24 | 62.9 |
| 4/30/2015 4:59:17 | 31.17 | 30.37 | 1,156 | 1.87 | 0.23 | 63.2 |
| 4/30/2015 4:59:17 | 31.50 | 30.70 | 1,156 | 1.87 | 0.23 | 63.2 |
| 4/30/2015 4:59:17 | 31.82 | 31.02 | 1,146 | 1.81 | 0.24 | 62.7 |
| 4/30/2015 4:59:18 | 32.15 | 31.35 | 1,146 | 1.81 | 0.24 | 62.7 |
| 4/30/2015 4:59:18 | 32.48 | 31.68 | 1,141 | 1.87 | 0.24 | 62.4 |
| 4/30/2015 4:59:18 | 32.81 | 32.01 | 1,138 | 1.86 | 0.24 | 62.2 |
| 4/30/2015 4:59:19 | 33.14 | 32.34 | 1,138 | 1.86 | 0.24 | 62.2 |
| 4/30/2015 4:59:19 | 33.46 | 32.66 | 1,138 | 1.86 | 0.24 | 62.2 |
| 4/30/2015 4:59:19 | 33.79 | 32.99 | 1,138 | 1.86 | 0.24 | 62.2 |
| 4/30/2015 4:59:19 | 34.12 | 33.32 | 1,147 | 1.89 | 0.24 | 62.7 |
| 4/30/2015 4:59:20 | 34.45 | 33.65 | 1,122 | 1.88 | 0.24 | 61.4 |
| 4/30/2015 4:59:20 | 34.78 | 33.98 | 1,122 | 1.88 | 0.24 | 61.4 |
| 4/30/2015 4:59:20 | 35.11 | 34.31 | 1,119 | 1.87 | 0.24 | 61.2 |
| 4/30/2015 4:59:21 | 35.43 | 34.63 | 1,119 | 1.87 | 0.24 | 61.2 |
| 4/30/2015 4:59:21 | 35.76 | 34.96 | 1,119 | 1.87 | 0.24 | 61.2 |
| 4/30/2015 4:59:21 | 36.09 | 35.29 | 1,144 | 1.86 | 0.24 | 62.6 |
| 4/30/2015 4:59:22 | 36.42 | 35.62 | 1,144 | 1.86 | 0.24 | 62.6 |
| 4/30/2015 4:59:22 | 36.75 | 35.95 | 1,130 | 1.89 | 0.24 | 61.8 |
| 4/30/2015 4:59:22 | 37.07 | 36.27 | 1,130 | 1.89 | 0.24 | 61.8 |
| 4/30/2015 4:59:22 | 37.40 | 36.60 | 1,130 | 1.85 | 0.24 | 61.8 |
| 4/30/2015 4:59:23 | 37.73 | 36.93 | 1,135 | 1.85 | 0.24 | 62.1 |
| 4/30/2015 4:59:24 | 38.06 | 37.26 | 1,135 | 1.85 | 0.24 | 62.1 |
| 4/30/2015 4:59:23 | 38.39 | 37.59 | 1,132 | 1.86 | 0.24 | 61.9 |
| 4/30/2015 4:59:24 | 38.71 | 37.91 | 1,132 | 1.86 | 0.24 | 61.9 |
| 4/30/2015 4:59:24 | 39.04 | 38.24 | 1,132 | 1.86 | 0.25 | 61.9 |
| 4/30/2015 4:59:25 | 39.37 | 38.57 | 1,151 | 1.87 | 0.24 | 63.0 |
| 4/30/2015 4:59:25 | 39.70 | 38.90 | 1,151 | 1.87 | 0.24 | 63.0 |
| 4/30/2015 4:59:25 | 40.03 | 39.23 | 1,143 | 1.86 | 0.24 | 62.5 |
| 4/30/2015 4:59:26 | 40.35 | 39.55 | 1,143 | 1.86 | 0.24 | 62.5 |
| 4/30/2015 4:59:26 | 40.68 | 39.88 | 1,140 | 1.89 | 0.24 | 62.3 |
| 4/30/2015 4:59:26 | 41.01 | 40.21 | 1,140 | 1.88 | 0.24 | 62.3 |
| 4/30/2015 4:59:27 | 41.34 | 40.54 | 1,140 | 1.88 | 0.24 | 62.3 |
| 4/30/2015 4:59:27 | 41.67 | 40.87 | 1,131 | 1.86 | 0.24 | 61.8 |
| 4/30/2015 4:59:27 | 41.99 | 41.19 | 1,131 | 1.86 | 0.24 | 61.8 |
| 4/30/2015 4:59:27 | 42.32 | 41.52 | 1,146 | 1.86 | 0.24 | 62.7 |
| 4/30/2015 4:59:28 | 42.65 | 41.85 | 1,136 | 1.88 | 0.24 | 62.1 |
| 4/30/2015 4:59:28 | 42.98 | 42.18 | 1,136 | 1.88 | 0.24 | 62.1 |
| 4/30/2015 4:59:28 | 43.31 | 42.51 | 1,140 | 1.88 | 0.24 | 62.4 |
| 4/30/2015 4:59:29 | 43.64 | 42.84 | 1,140 | 1.88 | 0.24 | 62.4 |
| 4/30/2015 4:59:29 | 43.96 | 43.16 | 1,151 | 1.88 | 0.24 | 62.9 |
| 4/30/2015 4:59:29 | 44.29 | 43.49 | 1,142 | 1.89 | 0.24 | 62.4 |
| 4/30/2015 4:59:30 | 44.62 | 43.82 | 1,142 | 1.89 | 0.24 | 62.4 |
| 4/30/2015 4:59:30 | 44.95 | 44.15 | 1,145 | 1.88 | 0.24 | 62.6 |
| 4/30/2015 4:59:30 | 45.28 | 44.48 | 1,145 | 1.88 | 0.24 | 62.6 |
| 4/30/2015 4:59:30 | 45.60 | 44.80 | 1,139 | 1.87 | 0.24 | 62.3 |
| 4/30/2015 4:59:38 | 45.93 | 45.13 | 5 | 1.13 | 1.00 | 0.3 |
| 4/30/2015 4:59:42 | 46.26 | 45.46 | 62 | 1.02 | 1.15 | 3.4 |
| 4/30/2015 4:59:46 | 46.59 | 45.79 | 104 | 1.11 | 1.13 | 5.7 |
| 4/30/2015 4:59:49 | 46.92 | 46.12 | 101 | 1.18 | 1.26 | 5.5 |
| 4/30/2015 4:59:54 | 47.24 | 46.44 | 64 | 1.07 | 1.21 | 3.5 |
| 4/30/2015 5:00:01 | 47.57 | 46.77 | 46 | 1.09 | 1.02 | 2.5 |
| 4/30/2015 5:00:12 | 47.90 | 47.10 | 32 | 1.07 | 0.97 | 1.7 |
| 4/30/2015 5:00:17 | 48.04 | 47.24 | 28 | 0.69 | 1.03 | 1.5 |

## K95 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:57:36

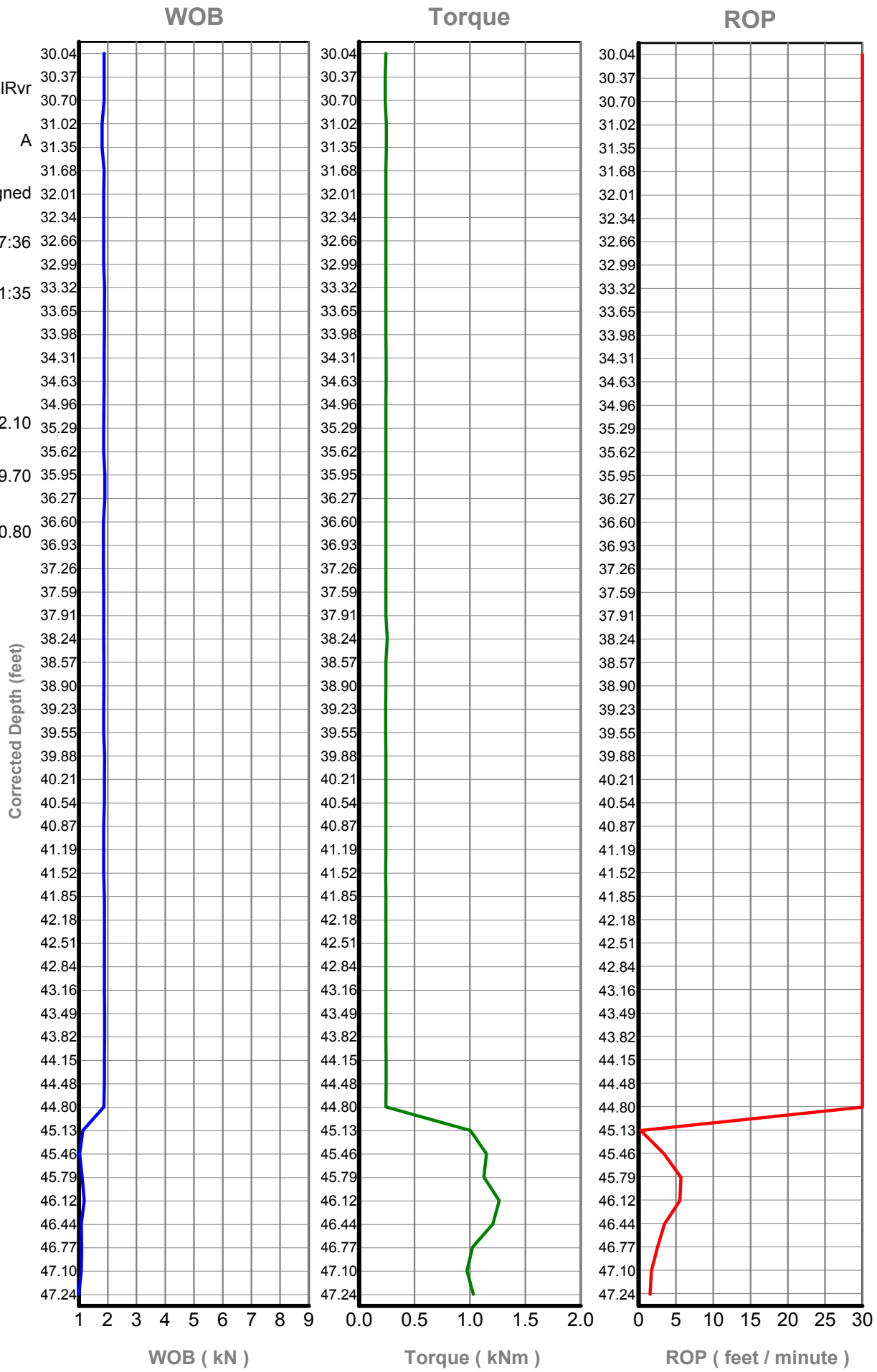
**End Date:**
4/30/2015 5:01:35

**Operator Note:**
'0.8 .9 a Auto Complete'

**Northing:**
362,072.10

**Easting:**
245,089.70

**Tide (feet):**
0.80



## Hole: K96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:59:45 | 30.84 | 30.04 | 1,153 | 0.32 | 0.39 | 63.1 |
| 4/30/2015 4:59:46 | 31.17 | 30.37 | 1,153 | 0.34 | 0.38 | 63.1 |
| 4/30/2015 4:59:46 | 31.50 | 30.70 | 1,153 | 0.34 | 0.38 | 63.1 |
| 4/30/2015 4:59:46 | 31.82 | 31.02 | 1,141 | 0.32 | 0.38 | 62.4 |
| 4/30/2015 4:59:47 | 32.15 | 31.35 | 1,141 | 0.32 | 0.38 | 62.4 |
| 4/30/2015 4:59:47 | 32.48 | 31.68 | 1,148 | 0.33 | 0.39 | 62.8 |
| 4/30/2015 4:59:47 | 32.81 | 32.01 | 1,148 | 0.33 | 0.38 | 62.8 |
| 4/30/2015 4:59:48 | 33.14 | 32.34 | 1,148 | 0.33 | 0.38 | 62.8 |
| 4/30/2015 4:59:48 | 33.46 | 32.66 | 1,148 | 0.33 | 0.38 | 62.8 |
| 4/30/2015 4:59:48 | 33.79 | 32.99 | 1,148 | 0.33 | 0.38 | 62.8 |
| 4/30/2015 4:59:48 | 34.12 | 33.32 | 1,148 | 0.32 | 0.38 | 62.8 |
| 4/30/2015 4:59:49 | 34.45 | 33.65 | 1,156 | 0.32 | 0.38 | 63.2 |
| 4/30/2015 4:59:50 | 34.78 | 33.98 | 1,156 | 0.32 | 0.38 | 63.2 |
| 4/30/2015 4:59:50 | 35.11 | 34.31 | 1,156 | 0.33 | 0.37 | 63.2 |
| 4/30/2015 4:59:50 | 35.43 | 34.63 | 1,156 | 0.33 | 0.37 | 63.2 |
| 4/30/2015 4:59:50 | 35.76 | 34.96 | 1,156 | 0.32 | 0.38 | 63.2 |
| 4/30/2015 4:59:51 | 36.09 | 35.29 | 1,137 | 0.33 | 0.38 | 62.2 |
| 4/30/2015 4:59:51 | 36.42 | 35.62 | 1,137 | 0.33 | 0.38 | 62.2 |
| 4/30/2015 4:59:51 | 36.75 | 35.95 | 1,147 | 0.33 | 0.38 | 62.7 |
| 4/30/2015 4:59:52 | 37.07 | 36.27 | 1,147 | 0.33 | 0.38 | 62.7 |
| 4/30/2015 4:59:52 | 37.40 | 36.60 | 1,144 | 0.32 | 0.37 | 62.6 |
| 4/30/2015 4:59:52 | 37.73 | 36.93 | 1,119 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 4:59:53 | 38.06 | 37.26 | 1,119 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 4:59:53 | 38.39 | 37.59 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 4:59:53 | 38.71 | 37.91 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 4:59:53 | 39.04 | 38.24 | 1,144 | 0.32 | 0.38 | 62.6 |
| 4/30/2015 4:59:54 | 39.37 | 38.57 | 1,144 | 0.33 | 0.39 | 62.6 |
| 4/30/2015 4:59:54 | 39.70 | 38.90 | 1,144 | 0.33 | 0.39 | 62.6 |
| 4/30/2015 4:59:54 | 40.03 | 39.23 | 1,152 | 0.32 | 0.38 | 63.0 |
| 4/30/2015 4:59:55 | 40.35 | 39.55 | 1,152 | 0.32 | 0.38 | 63.0 |
| 4/30/2015 4:59:55 | 40.68 | 39.88 | 1,152 | 0.33 | 0.38 | 63.0 |
| 4/30/2015 4:59:55 | 41.01 | 40.21 | 1,183 | 0.33 | 0.38 | 64.7 |
| 4/30/2015 4:59:56 | 41.34 | 40.54 | 1,183 | 0.33 | 0.38 | 64.7 |
| 4/30/2015 4:59:56 | 41.67 | 40.87 | 1,155 | 0.33 | 0.39 | 63.2 |
| 4/30/2015 4:59:56 | 41.99 | 41.19 | 1,155 | 0.33 | 0.39 | 63.2 |
| 4/30/2015 4:59:56 | 42.32 | 41.52 | 1,155 | 0.33 | 0.38 | 63.2 |
| 4/30/2015 4:59:57 | 42.65 | 41.85 | 1,155 | 0.33 | 0.38 | 63.2 |
| 4/30/2015 4:59:57 | 42.98 | 42.18 | 1,153 | 0.33 | 0.39 | 63.0 |
| 4/30/2015 4:59:57 | 43.31 | 42.51 | 1,128 | 0.33 | 0.38 | 61.7 |
| 4/30/2015 4:59:58 | 43.64 | 42.84 | 1,128 | 0.33 | 0.38 | 61.7 |
| 4/30/2015 4:59:58 | 43.96 | 43.16 | 1,142 | 0.32 | 0.37 | 62.5 |
| 4/30/2015 4:59:59 | 44.29 | 43.49 | 1,142 | 0.32 | 0.37 | 62.5 |
| 4/30/2015 4:59:59 | 44.62 | 43.82 | 1,129 | 0.34 | 0.37 | 61.8 |
| 4/30/2015 4:59:59 | 44.95 | 44.15 | 1,171 | 0.33 | 0.38 | 64.0 |
| 4/30/2015 5:00:00 | 45.28 | 44.48 | 1,171 | 0.33 | 0.38 | 64.0 |
| 4/30/2015 5:00:00 | 45.60 | 44.80 | 1,184 | 0.33 | 0.38 | 64.8 |
| 4/30/2015 5:00:00 | 45.93 | 45.13 | 1,184 | 0.33 | 0.38 | 64.8 |
| 4/30/2015 5:00:00 | 46.26 | 45.46 | 1,182 | 0.31 | 0.40 | 64.6 |
| 4/30/2015 5:00:08 | 46.59 | 45.79 | 32 | 4.48 | 0.46 | 1.8 |
| 4/30/2015 5:00:09 | 46.92 | 46.12 | 105 | 4.40 | 0.45 | 5.8 |
| 4/30/2015 5:00:11 | 47.24 | 46.44 | 291 | 3.67 | 0.45 | 15.9 |
| 4/30/2015 5:00:14 | 47.57 | 46.77 | 144 | 3.67 | 0.47 | 7.9 |
| 4/30/2015 5:00:19 | 47.90 | 47.10 | 69 | 3.87 | 0.47 | 3.8 |
| 4/30/2015 5:00:23 | 48.23 | 47.43 | 92 | 4.15 | 0.47 | 5.0 |
| 4/30/2015 5:00:26 | 48.56 | 47.76 | 109 | 3.90 | 0.47 | 6.0 |
| 4/30/2015 5:00:28 | 48.88 | 48.08 | 138 | 4.47 | 0.46 | 7.5 |
| 4/30/2015 5:00:33 | 49.21 | 48.41 | 81 | 3.41 | 0.47 | 4.4 |
| 4/30/2015 5:00:38 | 49.54 | 48.74 | 55 | 3.68 | 0.47 | 3.0 |
| 4/30/2015 5:00:49 | 49.87 | 49.07 | 27 | 3.08 | 0.48 | 1.5 |
| 4/30/2015 5:01:00 | 50.20 | 49.40 | 34 | 3.10 | 0.47 | 1.9 |
| 4/30/2015 5:01:03 | 50.28 | 49.48 | 32 | 2.95 | 0.47 | 1.7 |

## K96 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:58:21

**End Date:**
4/30/2015 5:02:31

**Operator Note:**
'0.8 0.9b Auto Complete'

**Northing:**
362,120.40

**Easting:**
245,147.60

**Tide (feet):**
0.80



## Hole: K97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 4:58:21 | 30.84 | 30.04 | 1,112 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 4:58:21 | 31.17 | 30.37 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 4:58:21 | 31.50 | 30.70 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 4:58:21 | 31.82 | 31.02 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 4:58:22 | 32.15 | 31.35 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 4:58:22 | 32.48 | 31.68 | 1,113 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 4:58:22 | 32.81 | 32.01 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 4:58:23 | 33.14 | 32.34 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:23 | 33.46 | 32.66 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:23 | 33.79 | 32.99 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:24 | 34.12 | 33.32 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:24 | 34.45 | 33.65 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:24 | 34.78 | 33.98 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:25 | 35.11 | 34.31 | 1,098 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:25 | 35.43 | 34.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:25 | 35.76 | 34.96 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:26 | 36.09 | 35.29 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:26 | 36.42 | 35.62 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:26 | 36.75 | 35.95 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:26 | 37.07 | 36.27 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 4:58:27 | 37.40 | 36.60 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:27 | 37.73 | 36.93 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:27 | 38.06 | 37.26 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:28 | 38.39 | 37.59 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:28 | 38.71 | 37.91 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 4:58:28 | 39.04 | 38.24 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 4:58:29 | 39.37 | 38.57 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 4:58:29 | 39.70 | 38.90 | 1,103 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 4:58:29 | 40.03 | 39.23 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:30 | 40.35 | 39.55 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:30 | 40.68 | 39.88 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:30 | 41.01 | 40.21 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:31 | 41.34 | 40.54 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:31 | 41.67 | 40.87 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:58:31 | 41.99 | 41.19 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 4:58:31 | 42.32 | 41.52 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:32 | 42.65 | 41.85 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:33 | 42.98 | 42.18 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 4:58:33 | 43.31 | 42.51 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 4:58:33 | 43.64 | 42.84 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:34 | 43.96 | 43.16 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:34 | 44.29 | 43.49 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:34 | 44.62 | 43.82 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:58:35 | 44.95 | 44.15 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 4:58:35 | 45.28 | 44.48 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:35 | 45.60 | 44.80 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 4:58:46 | 45.93 | 45.13 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 4:58:48 | 46.26 | 45.46 | 192 | 1.14 | 0.29 | 10.5 |
| 4/30/2015 4:58:50 | 46.59 | 45.79 | 220 | 1.14 | 0.29 | 12.0 |
| 4/30/2015 4:58:52 | 46.92 | 46.12 | 151 | 1.14 | 0.29 | 8.2 |
| 4/30/2015 4:58:56 | 47.24 | 46.44 | 105 | 1.14 | 0.29 | 5.7 |
| 4/30/2015 4:58:59 | 47.57 | 46.77 | 111 | 1.14 | 0.29 | 6.1 |
| 4/30/2015 4:59:02 | 47.90 | 47.10 | 134 | 1.14 | 0.29 | 7.3 |
| 4/30/2015 4:59:04 | 48.23 | 47.43 | 151 | 1.14 | 0.29 | 8.3 |
| 4/30/2015 4:59:10 | 48.56 | 47.76 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 4:59:17 | 48.88 | 48.08 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 4:59:24 | 49.21 | 48.41 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 4:59:29 | 49.43 | 48.63 | 41 | 1.14 | 0.29 | 2.2 |

## K97 - Summary

**Pattern Number:**
AreaK_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 4:57:28

**End Date:**
4/30/2015 5:00:39

**Operator Note:**
'0.8 0.9 c Auto Complete'

**Northing:**
362,168.20

**Easting:**
245,204.43

**Tide (feet):**
0.80



## Hole: K98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:50:28 | 32.81 | 30.31 | 1,382 | 1.88 | 0.23 | 75.6 |
| 4/30/2015 2:50:28 | 33.14 | 30.64 | 1,385 | 1.91 | 0.23 | 75.7 |
| 4/30/2015 2:50:28 | 33.46 | 30.96 | 1,385 | 1.91 | 0.23 | 75.7 |
| 4/30/2015 2:50:29 | 33.79 | 31.29 | 1,379 | 1.87 | 0.23 | 75.4 |
| 4/30/2015 2:50:29 | 34.12 | 31.62 | 1,379 | 1.87 | 0.23 | 75.4 |
| 4/30/2015 2:50:29 | 34.45 | 31.95 | 1,379 | 1.90 | 0.21 | 75.4 |
| 4/30/2015 2:50:29 | 34.78 | 32.28 | 1,379 | 1.90 | 0.21 | 75.4 |
| 4/30/2015 2:50:30 | 35.11 | 32.61 | 1,370 | 1.88 | 0.23 | 74.9 |
| 4/30/2015 2:50:30 | 35.43 | 32.93 | 1,370 | 1.88 | 0.23 | 74.9 |
| 4/30/2015 2:50:31 | 35.76 | 33.26 | 1,385 | 1.47 | 0.28 | 75.7 |
| 4/30/2015 2:50:31 | 36.09 | 33.59 | 1,348 | 1.34 | 0.24 | 73.7 |
| 4/30/2015 2:50:32 | 36.42 | 33.92 | 1,348 | 1.34 | 0.24 | 73.7 |
| 4/30/2015 2:50:32 | 36.75 | 34.25 | 1,250 | 1.36 | 0.24 | 68.4 |
| 4/30/2015 2:50:32 | 37.07 | 34.57 | 1,156 | 1.36 | 0.24 | 63.2 |
| 4/30/2015 2:50:33 | 37.40 | 34.90 | 1,065 | 1.36 | 0.24 | 58.2 |
| 4/30/2015 2:50:33 | 37.73 | 35.23 | 1,065 | 1.36 | 0.24 | 58.2 |
| 4/30/2015 2:50:33 | 38.06 | 35.56 | 959 | 1.36 | 0.24 | 52.4 |
| 4/30/2015 2:50:34 | 38.39 | 35.89 | 893 | 1.36 | 0.24 | 48.8 |
| 4/30/2015 2:50:34 | 38.71 | 36.21 | 888 | 1.42 | 0.23 | 48.5 |
| 4/30/2015 2:50:35 | 39.04 | 36.54 | 888 | 1.42 | 0.23 | 48.5 |
| 4/30/2015 2:50:35 | 39.37 | 36.87 | 908 | 1.90 | 0.23 | 49.6 |
| 4/30/2015 2:50:35 | 39.70 | 37.20 | 908 | 1.90 | 0.23 | 49.6 |
| 4/30/2015 2:50:35 | 40.03 | 37.53 | 985 | 1.88 | 0.23 | 53.9 |
| 4/30/2015 2:50:35 | 40.35 | 37.85 | 985 | 1.88 | 0.23 | 53.9 |
| 4/30/2015 2:50:36 | 40.68 | 38.18 | 1,085 | 1.92 | 0.22 | 59.3 |
| 4/30/2015 2:50:36 | 41.01 | 38.51 | 1,085 | 1.92 | 0.22 | 59.3 |
| 4/30/2015 2:50:36 | 41.34 | 38.84 | 1,182 | 1.57 | 0.24 | 64.6 |
| 4/30/2015 2:50:37 | 41.67 | 39.17 | 1,262 | 1.54 | 0.24 | 69.0 |
| 4/30/2015 2:50:37 | 41.99 | 39.49 | 1,262 | 1.54 | 0.24 | 69.0 |
| 4/30/2015 2:50:37 | 42.32 | 39.82 | 1,321 | 1.92 | 0.23 | 72.2 |
| 4/30/2015 2:50:38 | 42.65 | 40.15 | 1,321 | 1.92 | 0.23 | 72.2 |
| 4/30/2015 2:50:38 | 42.98 | 40.48 | 1,330 | 1.93 | 0.23 | 72.7 |
| 4/30/2015 2:50:38 | 43.31 | 40.81 | 1,330 | 1.93 | 0.23 | 72.7 |
| 4/30/2015 2:50:38 | 43.64 | 41.14 | 1,319 | 1.93 | 0.23 | 72.1 |
| 4/30/2015 2:50:38 | 43.96 | 41.46 | 1,319 | 1.93 | 0.23 | 72.1 |
| 4/30/2015 2:50:39 | 44.29 | 41.79 | 1,330 | 1.91 | 0.23 | 72.7 |
| 4/30/2015 2:50:39 | 44.62 | 42.12 | 1,330 | 1.91 | 0.23 | 72.7 |
| 4/30/2015 2:50:39 | 44.95 | 42.45 | 1,344 | 1.90 | 0.22 | 73.5 |
| 4/30/2015 2:50:40 | 45.28 | 42.78 | 1,344 | 1.90 | 0.22 | 73.5 |
| 4/30/2015 2:50:40 | 45.60 | 43.10 | 1,364 | 1.90 | 0.23 | 74.6 |
| 4/30/2015 2:50:41 | 45.93 | 43.43 | 1,364 | 1.90 | 0.23 | 74.6 |
| 4/30/2015 2:50:41 | 46.26 | 43.76 | 1,359 | 2.11 | 0.23 | 74.3 |
| 4/30/2015 2:50:41 | 46.59 | 44.09 | 1,359 | 2.11 | 0.23 | 74.3 |
| 4/30/2015 2:50:56 | 46.92 | 44.42 | 18 | 0.93 | 0.89 | 1.0 |
| 4/30/2015 2:51:04 | 47.24 | 44.74 | 0 | 1.02 | 1.46 | 0.0 |
| 4/30/2015 2:51:07 | 47.57 | 45.07 | 101 | 1.09 | 1.05 | 5.5 |
| 4/30/2015 2:51:10 | 47.90 | 45.40 | 128 | 1.01 | 1.14 | 7.0 |
| 4/30/2015 2:51:12 | 48.23 | 45.73 | 163 | 0.98 | 1.11 | 8.9 |
| 4/30/2015 2:51:14 | 48.56 | 46.06 | 197 | 1.09 | 1.18 | 10.8 |
| 4/30/2015 2:51:17 | 48.88 | 46.38 | 97 | 1.07 | 1.03 | 5.3 |
| 4/30/2015 2:51:25 | 49.21 | 46.71 | 77 | 1.13 | 0.94 | 4.2 |
| 4/30/2015 2:51:30 | 49.54 | 47.04 | 69 | 1.06 | 0.94 | 3.8 |
| 4/30/2015 2:51:37 | 49.87 | 47.37 | 53 | 1.00 | 1.05 | 2.9 |
| 4/30/2015 2:51:41 | 50.20 | 47.70 | 78 | 1.09 | 1.06 | 4.3 |
| 4/30/2015 2:51:44 | 50.53 | 48.03 | 113 | 1.07 | 0.90 | 6.2 |
| 4/30/2015 2:51:46 | 50.85 | 48.35 | 187 | 1.07 | 0.97 | 10.2 |
| 4/30/2015 2:51:50 | 51.18 | 48.68 | 45 | 1.09 | 0.92 | 2.5 |
| 4/30/2015 2:52:00 | 51.51 | 49.01 | 37 | 1.09 | 0.84 | 2.0 |
| 4/30/2015 2:52:10 | 51.84 | 49.34 | 35 | 1.05 | 0.83 | 1.9 |
| 4/30/2015 2:52:12 | 51.92 | 49.42 | 36 | 1.11 | 1.01 | 2.0 |

## K98 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:48:08

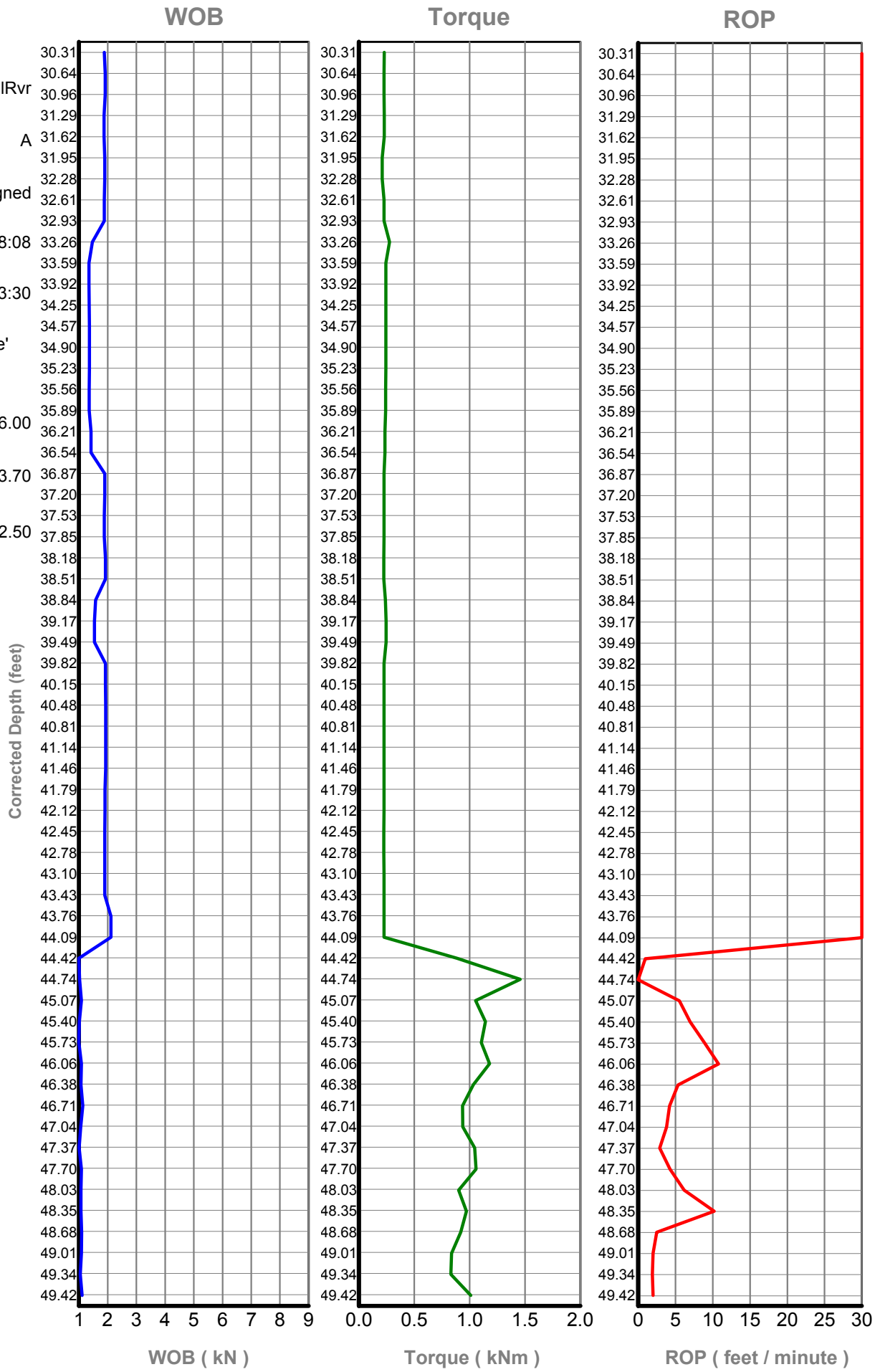
**End Date:**
4/30/2015 2:53:30

**Operator Note:**
'2.5 2.6 b Auto Complete'

**Northing:**
362,206.00

**Easting:**
245,263.70

**Tide (feet):**
2.50



## Hole: K99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 2:49:15 | 32.81 | 30.31 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 2:49:15 | 33.14 | 30.64 | 1,174 | 0.29 | 0.38 | 64.2 |
| 4/30/2015 2:49:16 | 33.46 | 30.96 | 1,174 | 0.29 | 0.38 | 64.2 |
| 4/30/2015 2:49:16 | 33.79 | 31.29 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 2:49:16 | 34.12 | 31.62 | 1,182 | 0.31 | 0.38 | 64.6 |
| 4/30/2015 2:49:17 | 34.45 | 31.95 | 1,182 | 0.31 | 0.38 | 64.6 |
| 4/30/2015 2:49:17 | 34.78 | 32.28 | 1,166 | 0.32 | 0.38 | 63.8 |
| 4/30/2015 2:49:17 | 35.11 | 32.61 | 1,166 | 0.32 | 0.38 | 63.8 |
| 4/30/2015 2:49:17 | 35.43 | 32.93 | 1,184 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 2:49:18 | 35.76 | 33.26 | 1,184 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 2:49:18 | 36.09 | 33.59 | 1,181 | 0.31 | 0.38 | 64.6 |
| 4/30/2015 2:49:19 | 36.42 | 33.92 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:49:19 | 36.75 | 34.25 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 2:49:19 | 37.07 | 34.57 | 1,175 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 2:49:20 | 37.40 | 34.90 | 1,175 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 2:49:20 | 37.73 | 35.23 | 1,190 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:49:20 | 38.06 | 35.56 | 1,163 | 0.33 | 0.37 | 63.6 |
| 4/30/2015 2:49:21 | 38.39 | 35.89 | 1,163 | 0.33 | 0.37 | 63.6 |
| 4/30/2015 2:49:21 | 38.71 | 36.21 | 1,177 | 0.30 | 0.38 | 64.4 |
| 4/30/2015 2:49:21 | 39.04 | 36.54 | 1,177 | 0.30 | 0.38 | 64.4 |
| 4/30/2015 2:49:21 | 39.37 | 36.87 | 1,167 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 2:49:22 | 39.70 | 37.20 | 1,167 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 2:49:22 | 40.03 | 37.53 | 1,190 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 2:49:22 | 40.35 | 37.85 | 1,187 | 0.31 | 0.38 | 64.9 |
| 4/30/2015 2:49:23 | 40.68 | 38.18 | 1,187 | 0.31 | 0.38 | 64.9 |
| 4/30/2015 2:49:23 | 41.01 | 38.51 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 2:49:23 | 41.34 | 38.84 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 2:49:23 | 41.67 | 39.17 | 1,190 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:49:24 | 41.99 | 39.49 | 1,190 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:49:24 | 42.32 | 39.82 | 1,193 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 2:49:24 | 42.65 | 40.15 | 1,184 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 2:49:25 | 42.98 | 40.48 | 1,184 | 0.31 | 0.38 | 64.7 |
| 4/30/2015 2:49:25 | 43.31 | 40.81 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 2:49:25 | 43.64 | 41.14 | 1,184 | 0.30 | 0.38 | 64.7 |
| 4/30/2015 2:49:25 | 43.96 | 41.46 | 1,196 | 0.30 | 0.37 | 65.4 |
| 4/30/2015 2:49:26 | 44.29 | 41.79 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 2:49:26 | 44.62 | 42.12 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 2:49:26 | 44.95 | 42.45 | 1,195 | 0.31 | 0.37 | 65.4 |
| 4/30/2015 2:49:27 | 45.28 | 42.78 | 1,195 | 0.31 | 0.37 | 65.4 |
| 4/30/2015 2:49:27 | 45.60 | 43.10 | 1,191 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 2:49:27 | 45.93 | 43.43 | 1,191 | 0.30 | 0.38 | 65.1 |
| 4/30/2015 2:49:27 | 46.26 | 43.76 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 2:49:28 | 46.59 | 44.09 | 1,191 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:49:29 | 46.92 | 44.42 | 1,191 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 2:49:29 | 47.24 | 44.74 | 1,185 | 0.27 | 0.45 | 64.8 |
| 4/30/2015 2:49:36 | 47.57 | 45.07 | 23 | 3.65 | 0.44 | 1.3 |
| 4/30/2015 2:49:41 | 47.90 | 45.40 | 61 | 3.42 | 0.47 | 3.3 |
| 4/30/2015 2:49:46 | 48.23 | 45.73 | 68 | 3.50 | 0.46 | 3.7 |
| 4/30/2015 2:49:51 | 48.56 | 46.06 | 74 | 3.56 | 0.46 | 4.0 |
| 4/30/2015 2:49:53 | 48.88 | 46.38 | 121 | 4.03 | 0.46 | 6.6 |
| 4/30/2015 2:49:58 | 49.21 | 46.71 | 78 | 3.41 | 0.47 | 4.3 |
| 4/30/2015 2:50:02 | 49.54 | 47.04 | 87 | 3.61 | 0.46 | 4.7 |
| 4/30/2015 2:50:07 | 49.87 | 47.37 | 69 | 3.27 | 0.46 | 3.8 |
| 4/30/2015 2:50:13 | 50.20 | 47.70 | 57 | 3.30 | 0.47 | 3.1 |
| 4/30/2015 2:50:21 | 50.53 | 48.03 | 45 | 3.35 | 0.47 | 2.5 |
| 4/30/2015 2:50:25 | 50.80 | 48.30 | 65 | 3.71 | 0.46 | 3.6 |

## K99 - Summary

**Pattern Number:**
AreaK_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 2:47:47

**End Date:**
4/30/2015 2:51:50

**Operator Note:**
'2.5 2.7b Auto Complete'

**Northing:**
362,253.40

**Easting:**
245,322.20

**Tide (feet):**
2.50



## Hole: KCB-294-1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:45:35 | 35.11 | 30.11 | 856 | 2.13 | 0.88 | 46.8 |
| 4/14/2015 10:45:35 | 35.43 | 30.43 | 856 | 2.13 | 0.88 | 46.8 |
| 4/14/2015 10:45:35 | 35.76 | 30.76 | 859 | 2.13 | 0.89 | 47.0 |
| 4/14/2015 10:45:36 | 36.09 | 31.09 | 864 | 2.14 | 0.96 | 47.2 |
| 4/14/2015 10:45:36 | 36.42 | 31.42 | 859 | 2.13 | 0.96 | 47.0 |
| 4/14/2015 10:45:37 | 36.75 | 31.75 | 853 | 2.13 | 0.95 | 46.6 |
| 4/14/2015 10:45:37 | 37.07 | 32.07 | 853 | 2.12 | 0.95 | 46.6 |
| 4/14/2015 10:45:38 | 37.40 | 32.40 | 853 | 2.12 | 0.95 | 46.6 |
| 4/14/2015 10:45:38 | 37.73 | 32.73 | 845 | 2.06 | 0.95 | 46.2 |
| 4/14/2015 10:45:38 | 38.06 | 33.06 | 856 | 2.14 | 0.95 | 46.8 |
| 4/14/2015 10:45:39 | 38.39 | 33.39 | 844 | 2.30 | 0.95 | 46.1 |
| 4/14/2015 10:45:39 | 38.71 | 33.71 | 844 | 2.12 | 0.96 | 46.1 |
| 4/14/2015 10:45:40 | 39.04 | 34.04 | 844 | 2.12 | 0.96 | 46.1 |
| 4/14/2015 10:45:40 | 39.37 | 34.37 | 849 | 2.15 | 0.95 | 46.4 |
| 4/14/2015 10:45:40 | 39.70 | 34.70 | 857 | 2.14 | 0.96 | 46.9 |
| 4/14/2015 10:45:41 | 40.03 | 35.03 | 854 | 2.12 | 0.96 | 46.7 |
| 4/14/2015 10:45:41 | 40.35 | 35.35 | 849 | 2.12 | 0.95 | 46.4 |
| 4/14/2015 10:45:42 | 40.68 | 35.68 | 849 | 2.12 | 0.95 | 46.4 |
| 4/14/2015 10:45:42 | 41.01 | 36.01 | 858 | 2.12 | 0.95 | 46.9 |
| 4/14/2015 10:45:42 | 41.34 | 36.34 | 850 | 2.14 | 0.95 | 46.5 |
| 4/14/2015 10:45:43 | 41.67 | 36.67 | 839 | 2.12 | 0.95 | 45.9 |
| 4/14/2015 10:45:43 | 41.99 | 36.99 | 844 | 2.12 | 0.95 | 46.2 |
| 4/14/2015 10:45:44 | 42.32 | 37.32 | 844 | 2.12 | 0.95 | 46.2 |
| 4/14/2015 10:45:44 | 42.65 | 37.65 | 836 | 2.13 | 0.95 | 45.7 |
| 4/14/2015 10:45:44 | 42.98 | 37.98 | 841 | 2.13 | 0.95 | 46.0 |
| 4/14/2015 10:45:45 | 43.31 | 38.31 | 838 | 2.13 | 0.95 | 45.8 |
| 4/14/2015 10:45:46 | 43.64 | 38.64 | 835 | 2.11 | 0.95 | 45.7 |
| 4/14/2015 10:45:46 | 43.96 | 38.96 | 831 | 2.10 | 0.95 | 45.4 |
| 4/14/2015 10:45:47 | 44.29 | 39.29 | 831 | 2.10 | 0.95 | 45.4 |
| 4/14/2015 10:45:47 | 44.62 | 39.62 | 835 | 2.12 | 0.95 | 45.7 |
| 4/14/2015 10:45:47 | 44.95 | 39.95 | 835 | 2.12 | 0.94 | 45.7 |
| 4/14/2015 10:45:48 | 45.28 | 40.28 | 833 | 2.14 | 0.94 | 45.5 |
| 4/14/2015 10:45:48 | 45.60 | 40.60 | 833 | 2.12 | 0.94 | 45.5 |
| 4/14/2015 10:45:49 | 45.93 | 40.93 | 833 | 2.12 | 0.94 | 45.5 |
| 4/14/2015 10:45:49 | 46.26 | 41.26 | 837 | 2.09 | 0.93 | 45.8 |
| 4/14/2015 10:45:49 | 46.59 | 41.59 | 827 | 2.12 | 0.93 | 45.2 |
| 4/14/2015 10:45:50 | 46.92 | 41.92 | 827 | 2.12 | 0.92 | 45.2 |
| 4/14/2015 10:45:50 | 47.24 | 42.24 | 827 | 2.17 | 0.92 | 45.2 |
| 4/14/2015 10:45:51 | 47.57 | 42.57 | 830 | 2.12 | 0.92 | 45.4 |
| 4/14/2015 10:45:51 | 47.90 | 42.90 | 830 | 2.12 | 0.92 | 45.4 |
| 4/14/2015 10:45:51 | 48.23 | 43.23 | 830 | 2.12 | 0.92 | 45.4 |
| 4/14/2015 10:45:52 | 48.56 | 43.56 | 828 | 2.12 | 0.91 | 45.3 |
| 4/14/2015 10:45:52 | 48.88 | 43.88 | 828 | 2.12 | 0.92 | 45.3 |
| 4/14/2015 10:45:53 | 49.21 | 44.21 | 836 | 2.11 | 0.92 | 45.7 |
| 4/14/2015 10:45:53 | 49.54 | 44.54 | 825 | 2.13 | 0.95 | 45.1 |
| 4/14/2015 10:45:54 | 49.87 | 44.87 | 825 | 2.13 | 0.95 | 45.1 |
| 4/14/2015 10:45:54 | 50.20 | 45.20 | 828 | 2.17 | 1.10 | 45.3 |
| 4/14/2015 10:45:56 | 50.53 | 45.53 | 572 | 2.37 | 1.46 | 31.3 |
| 4/14/2015 10:46:08 | 50.85 | 45.85 | 63 | 2.38 | 1.39 | 3.4 |
| 4/14/2015 10:46:14 | 50.98 | 45.98 | 0 | 2.36 | 1.32 | 0.0 |

## KCB-294-1 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:43:49

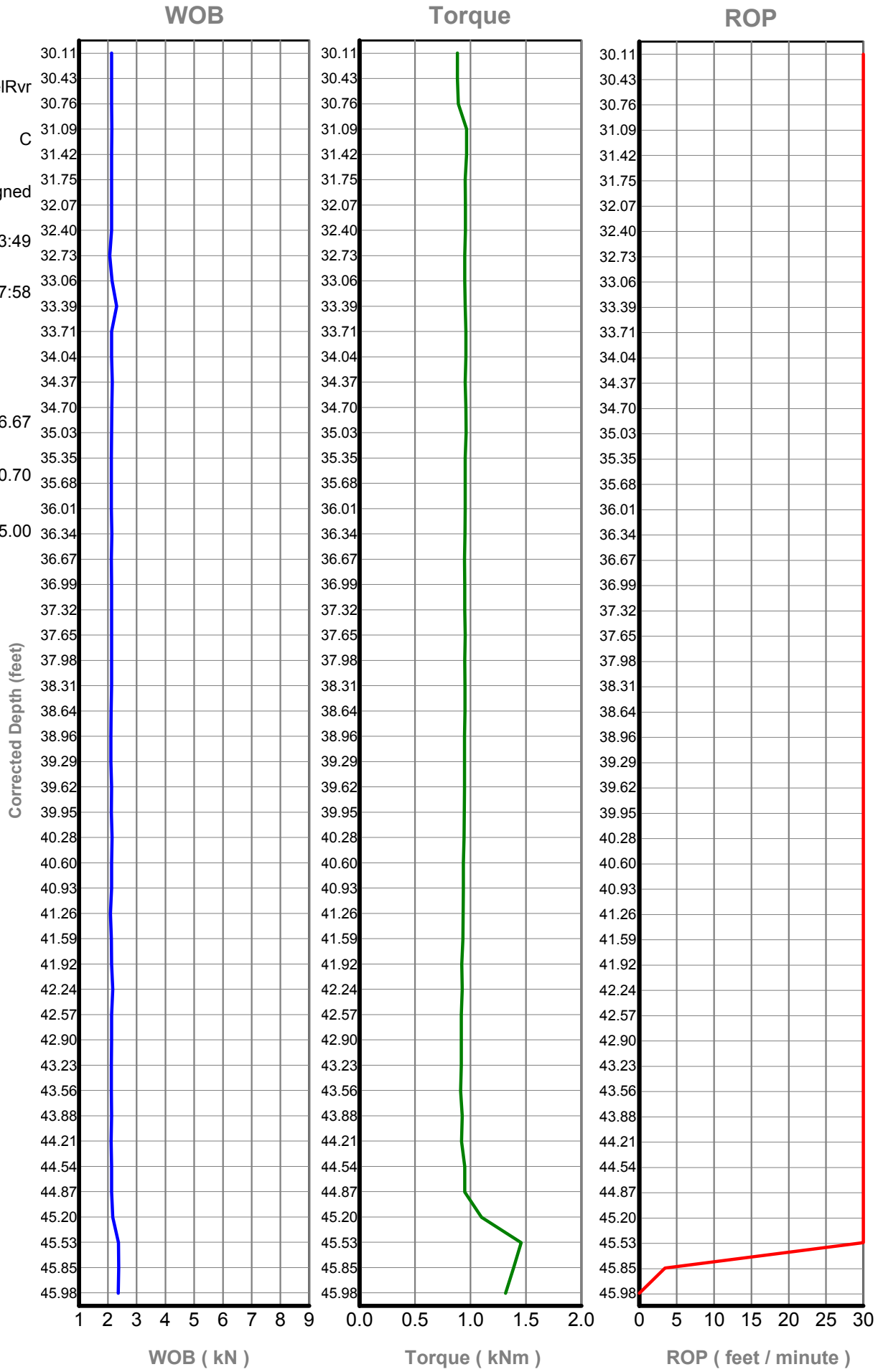
**End Date:**
4/14/2015 10:47:58

**Operator Note:**
'5 5.1 c Auto Complete'

**Northing:**
361,626.67

**Easting:**
244,650.70

**Tide (feet):**
5.00



## Hole: KCB-294-10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:54:21 | 33.79 | 30.09 | 804 | 2.12 | 0.74 | 43.9 |
| 4/13/2015 17:54:22 | 34.12 | 30.42 | 804 | 2.12 | 0.74 | 43.9 |
| 4/13/2015 17:54:22 | 34.45 | 30.75 | 801 | 2.12 | 0.74 | 43.8 |
| 4/13/2015 17:54:22 | 34.78 | 31.08 | 807 | 2.12 | 0.74 | 44.1 |
| 4/13/2015 17:54:23 | 35.11 | 31.41 | 804 | 2.12 | 0.74 | 43.9 |
| 4/13/2015 17:54:23 | 35.43 | 31.73 | 804 | 2.14 | 0.74 | 43.9 |
| 4/13/2015 17:54:24 | 35.76 | 32.06 | 799 | 2.12 | 0.74 | 43.7 |
| 4/13/2015 17:54:24 | 36.09 | 32.39 | 806 | 2.12 | 0.74 | 44.1 |
| 4/13/2015 17:54:25 | 36.42 | 32.72 | 806 | 2.12 | 0.74 | 44.1 |
| 4/13/2015 17:54:25 | 36.75 | 33.05 | 798 | 2.12 | 0.74 | 43.6 |
| 4/13/2015 17:54:25 | 37.07 | 33.37 | 798 | 2.13 | 0.74 | 43.6 |
| 4/13/2015 17:54:26 | 37.40 | 33.70 | 798 | 2.12 | 0.74 | 43.6 |
| 4/13/2015 17:54:26 | 37.73 | 34.03 | 803 | 2.12 | 0.74 | 43.9 |
| 4/13/2015 17:54:27 | 38.06 | 34.36 | 798 | 2.12 | 0.74 | 43.6 |
| 4/13/2015 17:54:27 | 38.39 | 34.69 | 801 | 2.13 | 0.74 | 43.8 |
| 4/13/2015 17:54:28 | 38.71 | 35.01 | 801 | 2.13 | 0.74 | 43.8 |
| 4/13/2015 17:54:28 | 39.04 | 35.34 | 790 | 2.12 | 0.74 | 43.2 |
| 4/13/2015 17:54:28 | 39.37 | 35.67 | 790 | 2.14 | 0.74 | 43.2 |
| 4/13/2015 17:54:29 | 39.70 | 36.00 | 801 | 2.11 | 0.74 | 43.8 |
| 4/13/2015 17:54:30 | 40.03 | 36.33 | 793 | 2.12 | 0.74 | 43.4 |
| 4/13/2015 17:54:30 | 40.35 | 36.65 | 785 | 2.14 | 0.74 | 42.9 |
| 4/13/2015 17:54:31 | 40.68 | 36.98 | 795 | 2.12 | 0.74 | 43.5 |
| 4/13/2015 17:54:31 | 41.01 | 37.31 | 795 | 2.12 | 0.74 | 43.5 |
| 4/13/2015 17:54:31 | 41.34 | 37.64 | 811 | 2.11 | 0.74 | 44.3 |
| 4/13/2015 17:54:32 | 41.67 | 37.97 | 800 | 2.13 | 0.74 | 43.7 |
| 4/13/2015 17:54:32 | 41.99 | 38.29 | 805 | 2.12 | 0.74 | 44.0 |
| 4/13/2015 17:54:33 | 42.32 | 38.62 | 809 | 2.12 | 0.74 | 44.2 |
| 4/13/2015 17:54:33 | 42.65 | 38.95 | 803 | 2.12 | 0.74 | 43.9 |
| 4/13/2015 17:54:34 | 42.98 | 39.28 | 798 | 2.19 | 0.74 | 43.6 |
| 4/13/2015 17:54:34 | 43.31 | 39.61 | 781 | 2.28 | 0.74 | 42.7 |
| 4/13/2015 17:54:35 | 43.64 | 39.94 | 707 | 2.31 | 0.74 | 38.7 |
| 4/13/2015 17:54:36 | 43.96 | 40.26 | 530 | 2.31 | 0.74 | 29.0 |
| 4/13/2015 17:54:37 | 44.29 | 40.59 | 359 | 2.33 | 0.74 | 19.6 |
| 4/13/2015 17:54:49 | 44.62 | 40.92 | 18 | 2.20 | 0.73 | 1.0 |
| 4/13/2015 17:54:53 | 44.95 | 41.25 | 57 | 2.16 | 0.73 | 3.1 |
| 4/13/2015 17:54:53 | 45.28 | 41.58 | 129 | 2.35 | 0.73 | 7.0 |
| 4/13/2015 17:54:55 | 45.60 | 41.90 | 277 | 2.19 | 0.73 | 15.2 |
| 4/13/2015 17:54:55 | 45.93 | 42.23 | 382 | 2.20 | 0.73 | 20.9 |
| 4/13/2015 17:54:56 | 46.26 | 42.56 | 383 | 2.17 | 0.73 | 21.0 |
| 4/13/2015 17:54:56 | 46.59 | 42.89 | 412 | 2.15 | 0.73 | 22.5 |
| 4/13/2015 17:54:57 | 46.92 | 43.22 | 550 | 2.15 | 0.73 | 30.1 |
| 4/13/2015 17:54:57 | 47.24 | 43.54 | 639 | 2.15 | 0.79 | 34.9 |
| 4/13/2015 17:55:06 | 47.57 | 43.87 | 0 | 2.41 | 0.97 | 0.0 |
| 4/13/2015 17:55:06 | 47.65 | 43.95 | 0 | 2.41 | 0.97 | 0.0 |

## KCB-294-10 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:52:28

**End Date:**
4/13/2015 17:57:06

**Operator Note:**
'3.7 3.3c Auto Complete'

**Northing:**
361,637.02

**Easting:**
244,671.85

**Tide (feet):**
3.70



## Hole: KCB-294-11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:17:43 | 35.43 | 30.13 | 844 | 2.14 | 0.95 | 46.2 |
| 4/14/2015 10:17:43 | 35.76 | 30.46 | 844 | 2.14 | 0.95 | 46.2 |
| 4/14/2015 10:17:43 | 36.09 | 30.79 | 841 | 2.14 | 0.95 | 46.0 |
| 4/14/2015 10:17:44 | 36.42 | 31.12 | 838 | 2.14 | 0.95 | 45.8 |
| 4/14/2015 10:17:44 | 36.75 | 31.45 | 833 | 2.13 | 0.95 | 45.6 |
| 4/14/2015 10:17:45 | 37.07 | 31.77 | 839 | 2.13 | 0.94 | 45.9 |
| 4/14/2015 10:17:45 | 37.40 | 32.10 | 839 | 2.13 | 0.94 | 45.9 |
| 4/14/2015 10:17:45 | 37.73 | 32.43 | 836 | 2.13 | 0.94 | 45.7 |
| 4/14/2015 10:17:46 | 38.06 | 32.76 | 839 | 2.13 | 0.94 | 45.9 |
| 4/14/2015 10:17:46 | 38.39 | 33.09 | 842 | 2.14 | 0.95 | 46.0 |
| 4/14/2015 10:17:47 | 38.71 | 33.41 | 850 | 2.13 | 0.94 | 46.5 |
| 4/14/2015 10:17:47 | 39.04 | 33.74 | 841 | 2.14 | 0.94 | 46.0 |
| 4/14/2015 10:17:48 | 39.37 | 34.07 | 841 | 2.14 | 0.94 | 46.0 |
| 4/14/2015 10:17:48 | 39.70 | 34.40 | 838 | 2.14 | 0.94 | 45.8 |
| 4/14/2015 10:17:48 | 40.03 | 34.73 | 833 | 2.18 | 0.94 | 45.6 |
| 4/14/2015 10:17:49 | 40.35 | 35.05 | 841 | 2.14 | 0.94 | 46.0 |
| 4/14/2015 10:17:49 | 40.68 | 35.38 | 838 | 2.12 | 0.94 | 45.8 |
| 4/14/2015 10:17:50 | 41.01 | 35.71 | 838 | 2.12 | 0.94 | 45.8 |
| 4/14/2015 10:17:50 | 41.34 | 36.04 | 835 | 2.13 | 0.94 | 45.7 |
| 4/14/2015 10:17:51 | 41.67 | 36.37 | 838 | 2.13 | 0.94 | 45.8 |
| 4/14/2015 10:17:51 | 41.99 | 36.69 | 841 | 2.13 | 0.94 | 46.0 |
| 4/14/2015 10:17:52 | 42.32 | 37.02 | 835 | 2.12 | 0.93 | 45.7 |
| 4/14/2015 10:17:52 | 42.65 | 37.35 | 832 | 2.12 | 0.93 | 45.5 |
| 4/14/2015 10:17:53 | 42.98 | 37.68 | 832 | 2.12 | 0.93 | 45.5 |
| 4/14/2015 10:17:53 | 43.31 | 38.01 | 830 | 2.13 | 0.93 | 45.4 |
| 4/14/2015 10:17:53 | 43.64 | 38.34 | 835 | 2.13 | 0.92 | 45.7 |
| 4/14/2015 10:17:54 | 43.96 | 38.66 | 830 | 2.12 | 0.92 | 45.4 |
| 4/14/2015 10:17:54 | 44.29 | 38.99 | 833 | 2.13 | 0.92 | 45.5 |
| 4/14/2015 10:17:55 | 44.62 | 39.32 | 833 | 2.14 | 0.92 | 45.5 |
| 4/14/2015 10:17:55 | 44.95 | 39.65 | 833 | 2.14 | 0.92 | 45.5 |
| 4/14/2015 10:17:55 | 45.28 | 39.98 | 833 | 2.14 | 0.92 | 45.5 |
| 4/14/2015 10:17:56 | 45.60 | 40.30 | 827 | 2.13 | 0.92 | 45.2 |
| 4/14/2015 10:17:56 | 45.93 | 40.63 | 827 | 2.12 | 0.92 | 45.2 |
| 4/14/2015 10:17:57 | 46.26 | 40.96 | 819 | 2.12 | 0.92 | 44.8 |
| 4/14/2015 10:17:57 | 46.59 | 41.29 | 819 | 2.12 | 0.92 | 44.8 |
| 4/14/2015 10:17:57 | 46.92 | 41.62 | 827 | 2.14 | 0.91 | 45.2 |
| 4/14/2015 10:17:58 | 47.24 | 41.94 | 824 | 2.13 | 0.91 | 45.1 |
| 4/14/2015 10:17:58 | 47.57 | 42.27 | 827 | 2.12 | 0.91 | 45.2 |
| 4/14/2015 10:17:59 | 47.90 | 42.60 | 827 | 2.37 | 1.32 | 45.2 |

## KCB-294-11 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:15:49

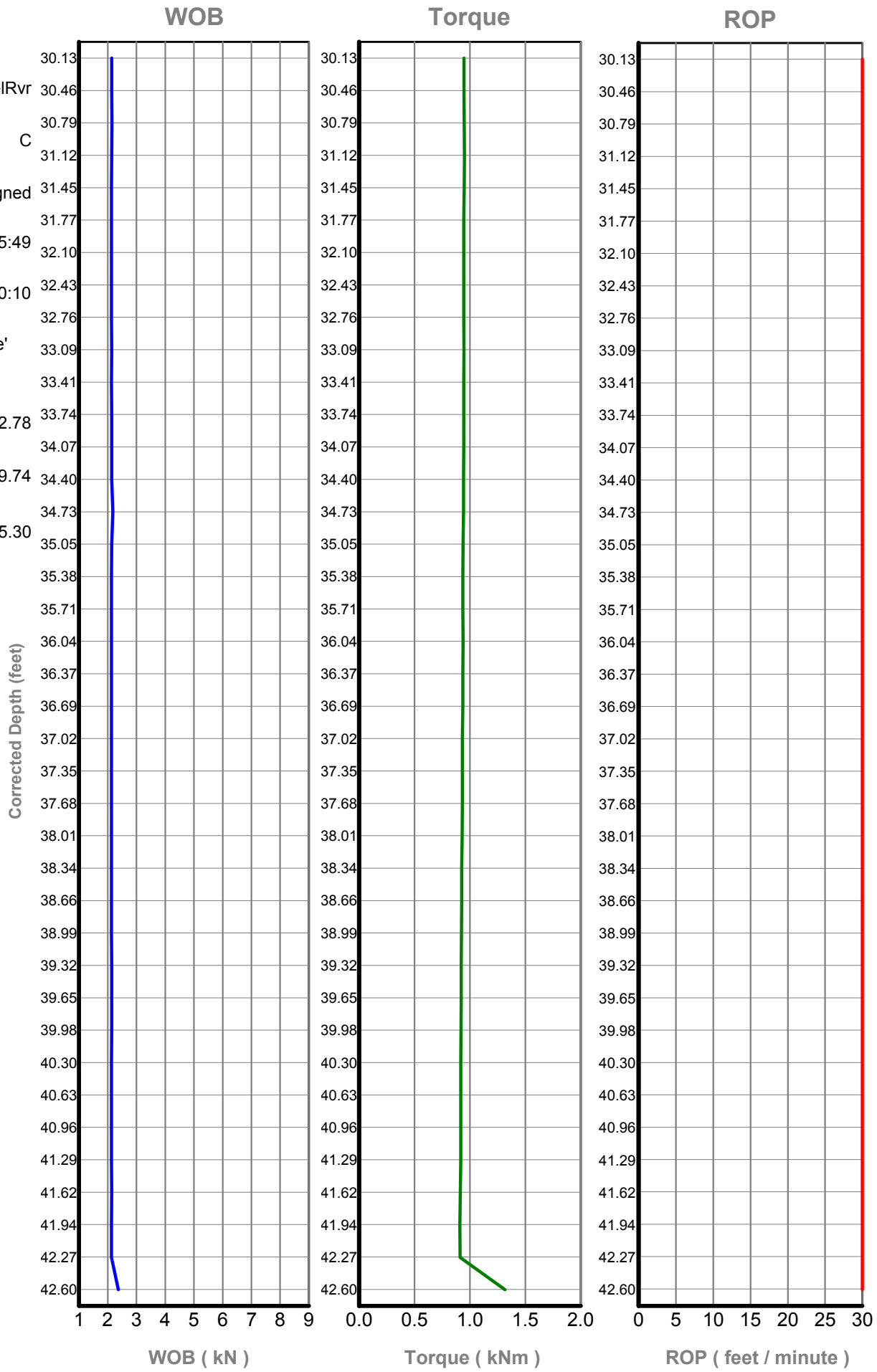
**End Date:**
4/14/2015 10:20:10

**Operator Note:**
'5.3 5.5 c Auto Complete'

**Northing:**
361,642.78

**Easting:**
244,669.74

**Tide (feet):**
5.30



## Hole: KCB-294-12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 18:01:33 | 34.12 | 30.32 | 873 | 2.10 | 0.93 | 47.7 |
| 4/13/2015 18:01:33 | 34.45 | 30.65 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:34 | 34.78 | 30.98 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:34 | 35.11 | 31.31 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:34 | 35.43 | 31.63 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:35 | 35.76 | 31.96 | 876 | 2.12 | 0.93 | 47.9 |
| 4/13/2015 18:01:35 | 36.09 | 32.29 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:36 | 36.42 | 32.62 | 873 | 2.11 | 0.93 | 47.7 |
| 4/13/2015 18:01:36 | 36.75 | 32.95 | 867 | 2.13 | 0.93 | 47.4 |
| 4/13/2015 18:01:36 | 37.07 | 33.27 | 862 | 2.12 | 0.93 | 47.1 |
| 4/13/2015 18:01:37 | 37.40 | 33.60 | 867 | 2.11 | 0.93 | 47.4 |
| 4/13/2015 18:01:38 | 37.73 | 33.93 | 867 | 2.12 | 0.93 | 47.4 |
| 4/13/2015 18:01:38 | 38.06 | 34.26 | 867 | 2.12 | 0.93 | 47.4 |
| 4/13/2015 18:01:38 | 38.39 | 34.59 | 867 | 2.12 | 0.93 | 47.4 |
| 4/13/2015 18:01:39 | 38.71 | 34.91 | 865 | 2.10 | 0.93 | 47.3 |
| 4/13/2015 18:01:39 | 39.04 | 35.24 | 879 | 2.11 | 0.93 | 48.1 |
| 4/13/2015 18:01:40 | 39.37 | 35.57 | 879 | 2.11 | 0.93 | 48.1 |
| 4/13/2015 18:01:40 | 39.70 | 35.90 | 874 | 2.10 | 0.93 | 47.8 |
| 4/13/2015 18:01:40 | 40.03 | 36.23 | 871 | 2.10 | 0.93 | 47.6 |
| 4/13/2015 18:01:41 | 40.35 | 36.55 | 852 | 2.12 | 0.92 | 46.6 |
| 4/13/2015 18:01:41 | 40.68 | 36.88 | 852 | 2.11 | 0.93 | 46.6 |
| 4/13/2015 18:01:42 | 41.01 | 37.21 | 852 | 2.11 | 0.93 | 46.6 |
| 4/13/2015 18:01:42 | 41.34 | 37.54 | 872 | 2.10 | 0.93 | 47.7 |
| 4/13/2015 18:01:42 | 41.67 | 37.87 | 858 | 2.11 | 0.93 | 46.9 |
| 4/13/2015 18:01:43 | 41.99 | 38.19 | 858 | 2.10 | 0.93 | 46.9 |
| 4/13/2015 18:01:43 | 42.32 | 38.52 | 866 | 2.11 | 0.93 | 47.4 |
| 4/13/2015 18:01:44 | 42.65 | 38.85 | 866 | 2.11 | 0.93 | 47.4 |
| 4/13/2015 18:01:44 | 42.98 | 39.18 | 880 | 2.12 | 0.92 | 48.1 |
| 4/13/2015 18:01:44 | 43.31 | 39.51 | 867 | 2.12 | 0.92 | 47.4 |
| 4/13/2015 18:01:45 | 43.64 | 39.84 | 867 | 2.10 | 0.92 | 47.4 |
| 4/13/2015 18:01:45 | 43.96 | 40.16 | 867 | 2.10 | 0.92 | 47.4 |
| 4/13/2015 18:01:45 | 44.29 | 40.49 | 867 | 2.11 | 0.92 | 47.4 |
| 4/13/2015 18:01:46 | 44.62 | 40.82 | 864 | 2.12 | 0.92 | 47.3 |
| 4/13/2015 18:01:46 | 44.95 | 41.15 | 861 | 2.11 | 0.92 | 47.1 |
| 4/13/2015 18:01:47 | 45.28 | 41.48 | 857 | 2.12 | 0.92 | 46.8 |
| 4/13/2015 18:01:48 | 45.60 | 41.80 | 857 | 2.12 | 0.92 | 46.8 |
| 4/13/2015 18:01:48 | 45.93 | 42.13 | 854 | 2.11 | 0.92 | 46.7 |
| 4/13/2015 18:01:48 | 46.26 | 42.46 | 859 | 2.10 | 0.92 | 47.0 |
| 4/13/2015 18:01:49 | 46.59 | 42.79 | 856 | 2.12 | 0.92 | 46.8 |
| 4/13/2015 18:01:49 | 46.92 | 43.12 | 856 | 2.12 | 0.92 | 46.8 |
| 4/13/2015 18:01:50 | 47.24 | 43.44 | 856 | 2.12 | 0.92 | 46.8 |
| 4/13/2015 18:01:54 | 47.57 | 43.77 | 0 | 2.33 | 1.45 | 0.0 |
| 4/13/2015 18:02:04 | 47.63 | 43.83 | 0 | 2.35 | 0.27 | 0.0 |

## KCB-294-12 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 18:00:01

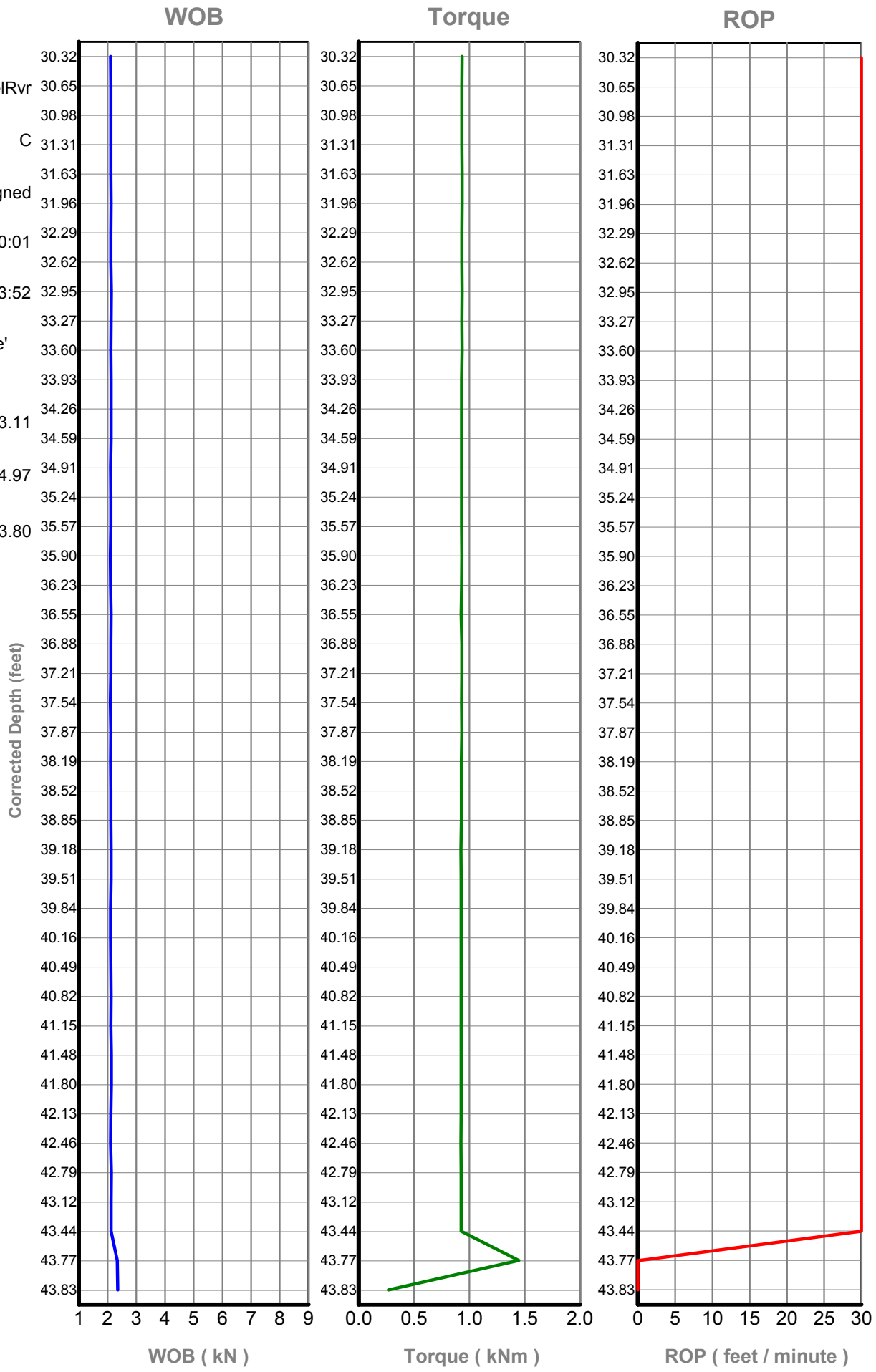
**End Date:**
4/13/2015 18:03:52

**Operator Note:**
'3.8 3.5 c Auto Complete'

**Northing:**
361,633.11

**Easting:**
244,674.97

**Tide (feet):**
3.80



## Hole: KCB-294-13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:11:56 | 35.43 | 30.03 | 853 | 2.14 | 0.98 | 46.6 |
| 4/14/2015 10:11:57 | 35.76 | 30.36 | 858 | 2.14 | 0.97 | 46.9 |
| 4/14/2015 10:11:57 | 36.09 | 30.69 | 850 | 2.14 | 0.98 | 46.5 |
| 4/14/2015 10:11:58 | 36.42 | 31.02 | 850 | 2.12 | 0.98 | 46.5 |
| 4/14/2015 10:11:58 | 36.75 | 31.35 | 850 | 2.12 | 0.98 | 46.5 |
| 4/14/2015 10:11:58 | 37.07 | 31.67 | 835 | 2.14 | 0.98 | 45.7 |
| 4/14/2015 10:11:59 | 37.40 | 32.00 | 835 | 2.13 | 0.97 | 45.7 |
| 4/14/2015 10:11:59 | 37.73 | 32.33 | 843 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:00 | 38.06 | 32.66 | 843 | 2.13 | 0.97 | 46.1 |
| 4/14/2015 10:12:00 | 38.39 | 32.99 | 843 | 2.13 | 0.97 | 46.1 |
| 4/14/2015 10:12:00 | 38.71 | 33.31 | 846 | 2.13 | 0.97 | 46.3 |
| 4/14/2015 10:12:01 | 39.04 | 33.64 | 851 | 2.12 | 0.97 | 46.5 |
| 4/14/2015 10:12:01 | 39.37 | 33.97 | 861 | 2.13 | 0.97 | 47.1 |
| 4/14/2015 10:12:02 | 39.70 | 34.30 | 844 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:02 | 40.03 | 34.63 | 844 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:02 | 40.35 | 34.95 | 844 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:03 | 40.68 | 35.28 | 846 | 2.13 | 0.97 | 46.3 |
| 4/14/2015 10:12:03 | 41.01 | 35.61 | 848 | 2.13 | 0.97 | 46.4 |
| 4/14/2015 10:12:04 | 41.34 | 35.94 | 843 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:04 | 41.67 | 36.27 | 843 | 2.12 | 0.97 | 46.1 |
| 4/14/2015 10:12:04 | 41.99 | 36.59 | 843 | 2.13 | 0.96 | 46.1 |
| 4/14/2015 10:12:05 | 42.32 | 36.92 | 858 | 2.13 | 0.96 | 46.9 |
| 4/14/2015 10:12:05 | 42.65 | 37.25 | 847 | 2.12 | 0.96 | 46.3 |
| 4/14/2015 10:12:06 | 42.98 | 37.58 | 847 | 2.14 | 0.96 | 46.3 |
| 4/14/2015 10:12:07 | 43.31 | 37.91 | 847 | 2.14 | 0.96 | 46.3 |
| 4/14/2015 10:12:07 | 43.64 | 38.24 | 844 | 2.13 | 0.96 | 46.2 |
| 4/14/2015 10:12:07 | 43.96 | 38.56 | 844 | 2.13 | 0.95 | 46.2 |
| 4/14/2015 10:12:08 | 44.29 | 38.89 | 841 | 2.12 | 0.95 | 46.0 |
| 4/14/2015 10:12:08 | 44.62 | 39.22 | 841 | 2.14 | 0.95 | 46.0 |
| 4/14/2015 10:12:09 | 44.95 | 39.55 | 836 | 2.13 | 0.95 | 45.7 |
| 4/14/2015 10:12:09 | 45.28 | 39.88 | 836 | 2.13 | 0.95 | 45.7 |
| 4/14/2015 10:12:09 | 45.60 | 40.20 | 839 | 2.13 | 0.95 | 45.9 |
| 4/14/2015 10:12:10 | 45.93 | 40.53 | 838 | 2.12 | 0.95 | 45.8 |
| 4/14/2015 10:12:10 | 46.26 | 40.86 | 838 | 2.12 | 0.95 | 45.8 |
| 4/14/2015 10:12:11 | 46.59 | 41.19 | 829 | 2.13 | 0.94 | 45.3 |
| 4/14/2015 10:12:11 | 46.92 | 41.52 | 829 | 2.13 | 0.94 | 45.3 |
| 4/14/2015 10:12:11 | 47.24 | 41.84 | 842 | 2.13 | 0.94 | 46.1 |
| 4/14/2015 10:12:12 | 47.57 | 42.17 | 845 | 2.13 | 0.94 | 46.2 |
| 4/14/2015 10:12:12 | 47.90 | 42.50 | 840 | 2.13 | 0.94 | 45.9 |
| 4/14/2015 10:12:13 | 48.23 | 42.83 | 825 | 2.13 | 0.93 | 45.1 |
| 4/14/2015 10:12:13 | 48.56 | 43.16 | 825 | 2.14 | 0.94 | 45.1 |
| 4/14/2015 10:12:14 | 48.88 | 43.48 | 825 | 2.14 | 0.94 | 45.1 |
| 4/14/2015 10:12:14 | 49.21 | 43.81 | 842 | 2.20 | 1.13 | 46.1 |
| 4/14/2015 10:12:21 | 49.43 | 44.03 | 44 | 2.36 | 1.31 | 2.4 |

## KCB-294-13 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:10:25

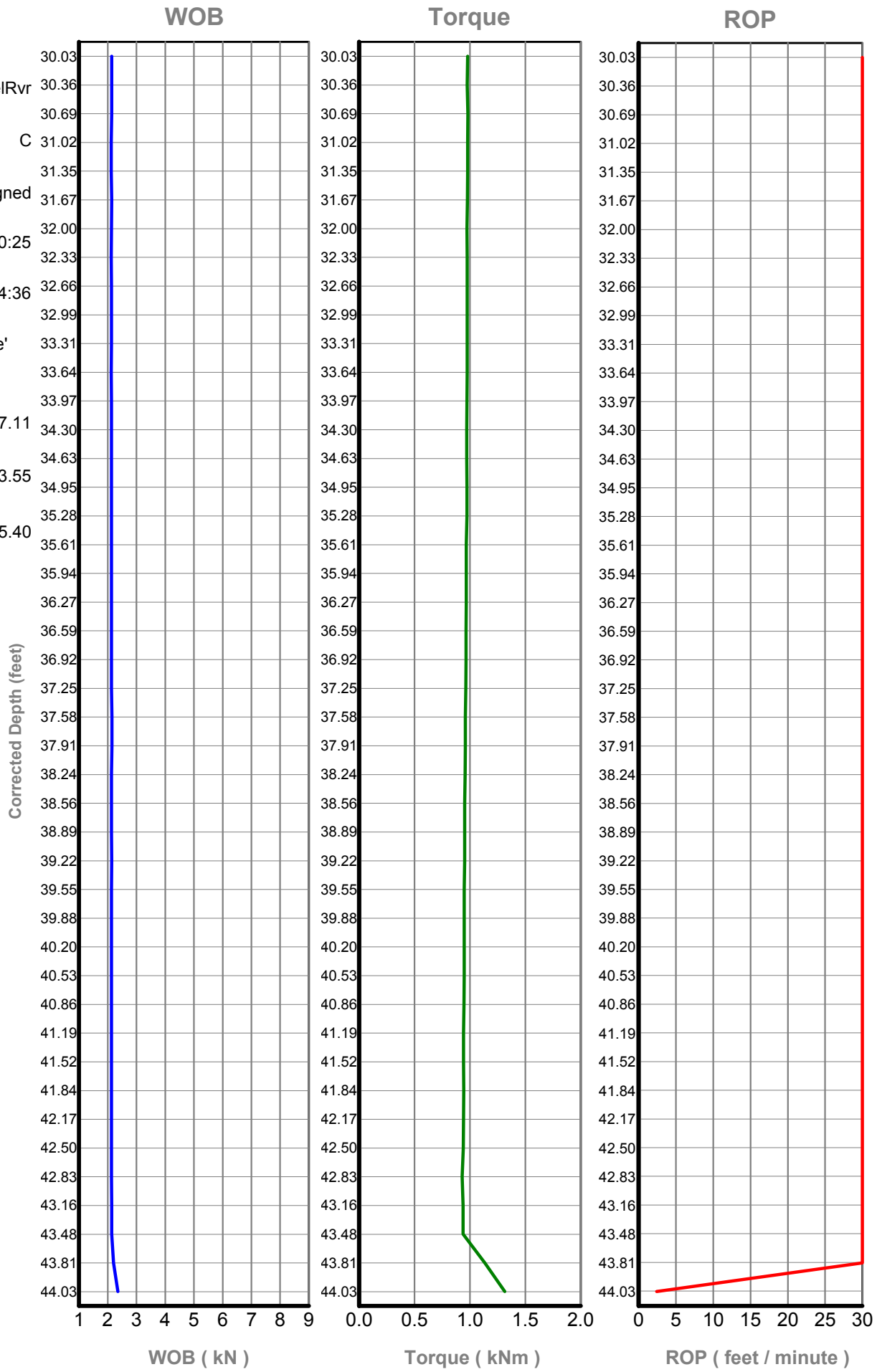
**End Date:**
4/14/2015 10:14:36

**Operator Note:**
'5.4 5.6 c Auto Complete'

**Northing:**
361,647.11

**Easting:**
244,673.55

**Tide (feet):**
5.40



## Hole: KCB-294-14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 18:07:26 | 34.12 | 30.12 | 860 | 2.10 | 0.76 | 47.1 |
| 4/13/2015 18:07:27 | 34.45 | 30.45 | 863 | 2.11 | 0.76 | 47.2 |
| 4/13/2015 18:07:27 | 34.78 | 30.78 | 882 | 2.10 | 0.76 | 48.2 |
| 4/13/2015 18:07:28 | 35.11 | 31.11 | 882 | 2.10 | 0.76 | 48.2 |
| 4/13/2015 18:07:28 | 35.43 | 31.43 | 873 | 2.10 | 0.76 | 47.7 |
| 4/13/2015 18:07:28 | 35.76 | 31.76 | 873 | 2.10 | 0.76 | 47.7 |
| 4/13/2015 18:07:29 | 36.09 | 32.09 | 873 | 2.10 | 0.76 | 47.7 |
| 4/13/2015 18:07:29 | 36.42 | 32.42 | 873 | 2.10 | 0.76 | 47.7 |
| 4/13/2015 18:07:30 | 36.75 | 32.75 | 873 | 2.10 | 0.76 | 47.7 |
| 4/13/2015 18:07:30 | 37.07 | 33.07 | 870 | 2.12 | 0.75 | 47.6 |
| 4/13/2015 18:07:31 | 37.40 | 33.40 | 864 | 2.10 | 0.76 | 47.3 |
| 4/13/2015 18:07:31 | 37.73 | 33.73 | 859 | 2.12 | 0.75 | 47.0 |
| 4/13/2015 18:07:32 | 38.06 | 34.06 | 859 | 2.12 | 0.75 | 47.0 |
| 4/13/2015 18:07:32 | 38.39 | 34.39 | 867 | 2.11 | 0.75 | 47.4 |
| 4/13/2015 18:07:32 | 38.71 | 34.71 | 864 | 2.10 | 0.75 | 47.3 |
| 4/13/2015 18:07:33 | 39.04 | 35.04 | 867 | 2.10 | 0.75 | 47.4 |
| 4/13/2015 18:07:33 | 39.37 | 35.37 | 873 | 2.12 | 0.75 | 47.7 |
| 4/13/2015 18:07:34 | 39.70 | 35.70 | 873 | 2.12 | 0.75 | 47.7 |
| 4/13/2015 18:07:34 | 40.03 | 36.03 | 881 | 2.10 | 0.75 | 48.2 |
| 4/13/2015 18:07:34 | 40.35 | 36.35 | 870 | 2.10 | 0.75 | 47.6 |
| 4/13/2015 18:07:35 | 40.68 | 36.68 | 870 | 2.10 | 0.75 | 47.6 |
| 4/13/2015 18:07:35 | 41.01 | 37.01 | 873 | 2.12 | 0.75 | 47.7 |
| 4/13/2015 18:07:36 | 41.34 | 37.34 | 873 | 2.12 | 0.75 | 47.7 |
| 4/13/2015 18:07:36 | 41.67 | 37.67 | 873 | 2.11 | 0.75 | 47.7 |
| 4/13/2015 18:07:36 | 41.99 | 37.99 | 862 | 2.12 | 0.75 | 47.2 |
| 4/13/2015 18:07:37 | 42.32 | 38.32 | 870 | 2.12 | 0.75 | 47.6 |
| 4/13/2015 18:07:37 | 42.65 | 38.65 | 870 | 2.10 | 0.75 | 47.6 |
| 4/13/2015 18:07:38 | 42.98 | 38.98 | 870 | 2.10 | 0.75 | 47.6 |
| 4/13/2015 18:07:38 | 43.31 | 39.31 | 870 | 2.10 | 0.74 | 47.6 |
| 4/13/2015 18:07:38 | 43.64 | 39.64 | 864 | 2.11 | 0.74 | 47.3 |
| 4/13/2015 18:07:39 | 43.96 | 39.96 | 872 | 2.10 | 0.74 | 47.7 |
| 4/13/2015 18:07:39 | 44.29 | 40.29 | 864 | 2.11 | 0.74 | 47.3 |
| 4/13/2015 18:07:40 | 44.62 | 40.62 | 864 | 2.11 | 0.74 | 47.3 |
| 4/13/2015 18:07:40 | 44.95 | 40.95 | 858 | 2.10 | 0.74 | 46.9 |
| 4/13/2015 18:07:40 | 45.28 | 41.28 | 858 | 2.11 | 0.74 | 46.9 |
| 4/13/2015 18:07:41 | 45.60 | 41.60 | 853 | 2.10 | 0.74 | 46.7 |
| 4/13/2015 18:07:42 | 45.93 | 41.93 | 853 | 2.10 | 0.74 | 46.7 |
| 4/13/2015 18:07:42 | 46.26 | 42.26 | 858 | 1.99 | 0.75 | 46.9 |
| 4/13/2015 18:07:42 | 46.59 | 42.59 | 858 | 2.12 | 0.74 | 46.9 |
| 4/13/2015 18:07:43 | 46.92 | 42.92 | 856 | 2.12 | 0.75 | 46.8 |
| 4/13/2015 18:07:43 | 47.24 | 43.24 | 860 | 2.12 | 0.76 | 47.0 |
| 4/13/2015 18:07:44 | 47.57 | 43.57 | 860 | 2.12 | 0.76 | 47.0 |
| 4/13/2015 18:07:44 | 47.90 | 43.90 | 853 | 2.12 | 0.76 | 46.6 |
| 4/13/2015 18:07:44 | 48.23 | 44.23 | 856 | 2.12 | 0.76 | 46.8 |
| 4/13/2015 18:07:45 | 48.56 | 44.56 | 853 | 2.13 | 0.96 | 46.6 |
| 4/13/2015 18:07:49 | 48.88 | 44.88 | 18 | 2.34 | 1.26 | 1.0 |

## KCB-294-14 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 18:05:54

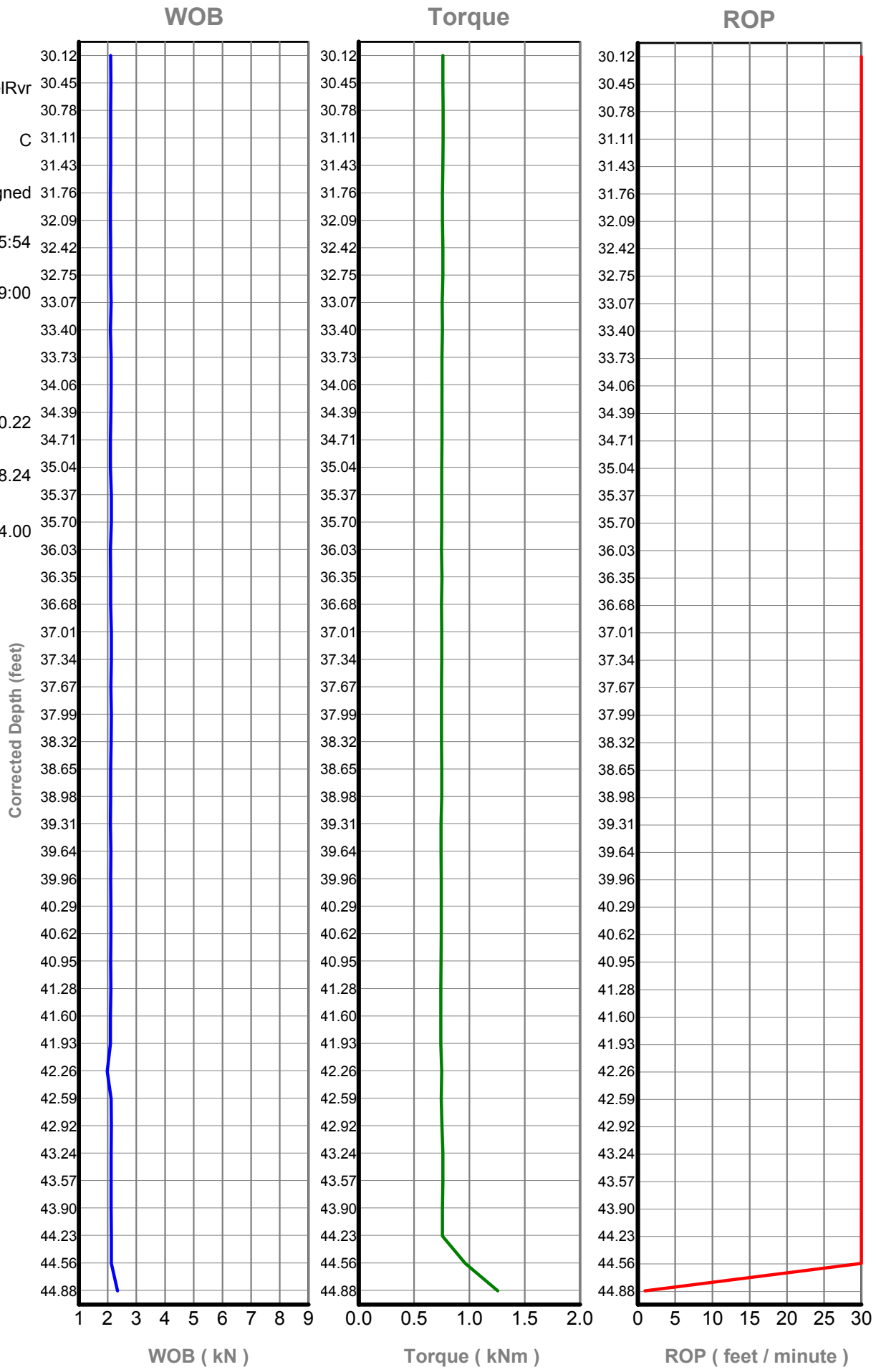
**End Date:**
4/13/2015 18:09:00

**Operator Note:**
'4 3.7 c Auto Complete'

**Northing:**
361,630.22

**Easting:**
244,678.24

**Tide (feet):**
4.00



## Hole: KCB-294-15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:05:49 | 35.76 | 30.16 | 821 | 2.14 | 1.02 | 44.9 |
| 4/14/2015 10:05:50 | 36.09 | 30.49 | 821 | 2.14 | 1.02 | 44.9 |
| 4/14/2015 10:05:50 | 36.42 | 30.82 | 845 | 2.12 | 1.03 | 46.2 |
| 4/14/2015 10:05:51 | 36.75 | 31.15 | 848 | 2.14 | 1.02 | 46.4 |
| 4/14/2015 10:05:52 | 37.07 | 31.47 | 848 | 2.14 | 1.02 | 46.4 |
| 4/14/2015 10:05:52 | 37.40 | 31.80 | 834 | 2.14 | 1.02 | 45.6 |
| 4/14/2015 10:05:52 | 37.73 | 32.13 | 826 | 2.14 | 1.02 | 45.2 |
| 4/14/2015 10:05:53 | 38.06 | 32.46 | 851 | 2.14 | 1.02 | 46.5 |
| 4/14/2015 10:05:53 | 38.39 | 32.79 | 852 | 2.14 | 1.02 | 46.6 |
| 4/14/2015 10:05:54 | 38.71 | 33.11 | 835 | 1.86 | 1.02 | 45.6 |
| 4/14/2015 10:05:54 | 39.04 | 33.44 | 835 | 1.86 | 1.02 | 45.6 |
| 4/14/2015 10:05:54 | 39.37 | 33.77 | 835 | 2.12 | 1.02 | 45.6 |
| 4/14/2015 10:05:55 | 39.70 | 34.10 | 854 | 2.12 | 1.01 | 46.7 |
| 4/14/2015 10:05:55 | 40.03 | 34.43 | 833 | 2.12 | 1.01 | 45.6 |
| 4/14/2015 10:05:56 | 40.35 | 34.75 | 833 | 2.14 | 1.01 | 45.6 |
| 4/14/2015 10:05:56 | 40.68 | 35.08 | 833 | 2.14 | 1.01 | 45.6 |
| 4/14/2015 10:05:56 | 41.01 | 35.41 | 844 | 2.14 | 1.01 | 46.1 |
| 4/14/2015 10:05:57 | 41.34 | 35.74 | 823 | 2.14 | 1.01 | 45.0 |
| 4/14/2015 10:05:57 | 41.67 | 36.07 | 849 | 2.13 | 1.01 | 46.4 |
| 4/14/2015 10:05:58 | 41.99 | 36.39 | 835 | 2.12 | 1.01 | 45.7 |
| 4/14/2015 10:05:58 | 42.32 | 36.72 | 835 | 2.12 | 1.01 | 45.7 |
| 4/14/2015 10:05:58 | 42.65 | 37.05 | 835 | 2.13 | 1.00 | 45.7 |
| 4/14/2015 10:05:59 | 42.98 | 37.38 | 859 | 2.14 | 1.00 | 47.0 |
| 4/14/2015 10:05:59 | 43.31 | 37.71 | 836 | 2.14 | 1.00 | 45.7 |
| 4/14/2015 10:06:00 | 43.64 | 38.04 | 856 | 2.16 | 1.00 | 46.8 |
| 4/14/2015 10:06:00 | 43.96 | 38.36 | 824 | 2.14 | 0.99 | 45.0 |
| 4/14/2015 10:06:01 | 44.29 | 38.69 | 824 | 2.14 | 0.99 | 45.0 |
| 4/14/2015 10:06:01 | 44.62 | 39.02 | 824 | 2.14 | 1.00 | 45.0 |
| 4/14/2015 10:06:01 | 44.95 | 39.35 | 840 | 2.14 | 0.99 | 45.9 |
| 4/14/2015 10:06:02 | 45.28 | 39.68 | 830 | 2.14 | 0.99 | 45.4 |
| 4/14/2015 10:06:03 | 45.60 | 40.00 | 827 | 2.13 | 0.98 | 45.2 |
| 4/14/2015 10:06:03 | 45.93 | 40.33 | 827 | 2.13 | 0.98 | 45.2 |
| 4/14/2015 10:06:03 | 46.26 | 40.66 | 824 | 2.14 | 0.96 | 45.1 |
| 4/14/2015 10:06:04 | 46.59 | 40.99 | 843 | 2.13 | 0.98 | 46.1 |
| 4/14/2015 10:06:04 | 46.92 | 41.32 | 833 | 2.14 | 0.98 | 45.5 |
| 4/14/2015 10:06:05 | 47.24 | 41.64 | 836 | 2.14 | 0.98 | 45.7 |
| 4/14/2015 10:06:05 | 47.57 | 41.97 | 840 | 2.14 | 0.97 | 46.0 |
| 4/14/2015 10:06:06 | 47.90 | 42.30 | 840 | 2.14 | 0.97 | 46.0 |
| 4/14/2015 10:06:06 | 48.23 | 42.63 | 838 | 2.14 | 0.98 | 45.8 |
| 4/14/2015 10:06:06 | 48.56 | 42.96 | 835 | 2.13 | 0.97 | 45.7 |
| 4/14/2015 10:06:07 | 48.88 | 43.28 | 838 | 2.15 | 0.97 | 45.8 |
| 4/14/2015 10:06:07 | 49.21 | 43.61 | 835 | 2.14 | 0.97 | 45.7 |
| 4/14/2015 10:06:08 | 49.54 | 43.94 | 835 | 2.14 | 0.97 | 45.7 |
| 4/14/2015 10:06:08 | 49.87 | 44.27 | 841 | 2.13 | 0.97 | 46.0 |
| 4/14/2015 10:06:08 | 50.20 | 44.60 | 835 | 2.16 | 1.13 | 45.7 |
| 4/14/2015 10:06:18 | 50.53 | 44.93 | 66 | 2.31 | 1.27 | 3.6 |
| 4/14/2015 10:06:28 | 50.70 | 45.10 | 23 | 2.35 | 1.37 | 1.3 |

## KCB-294-15 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:04:10

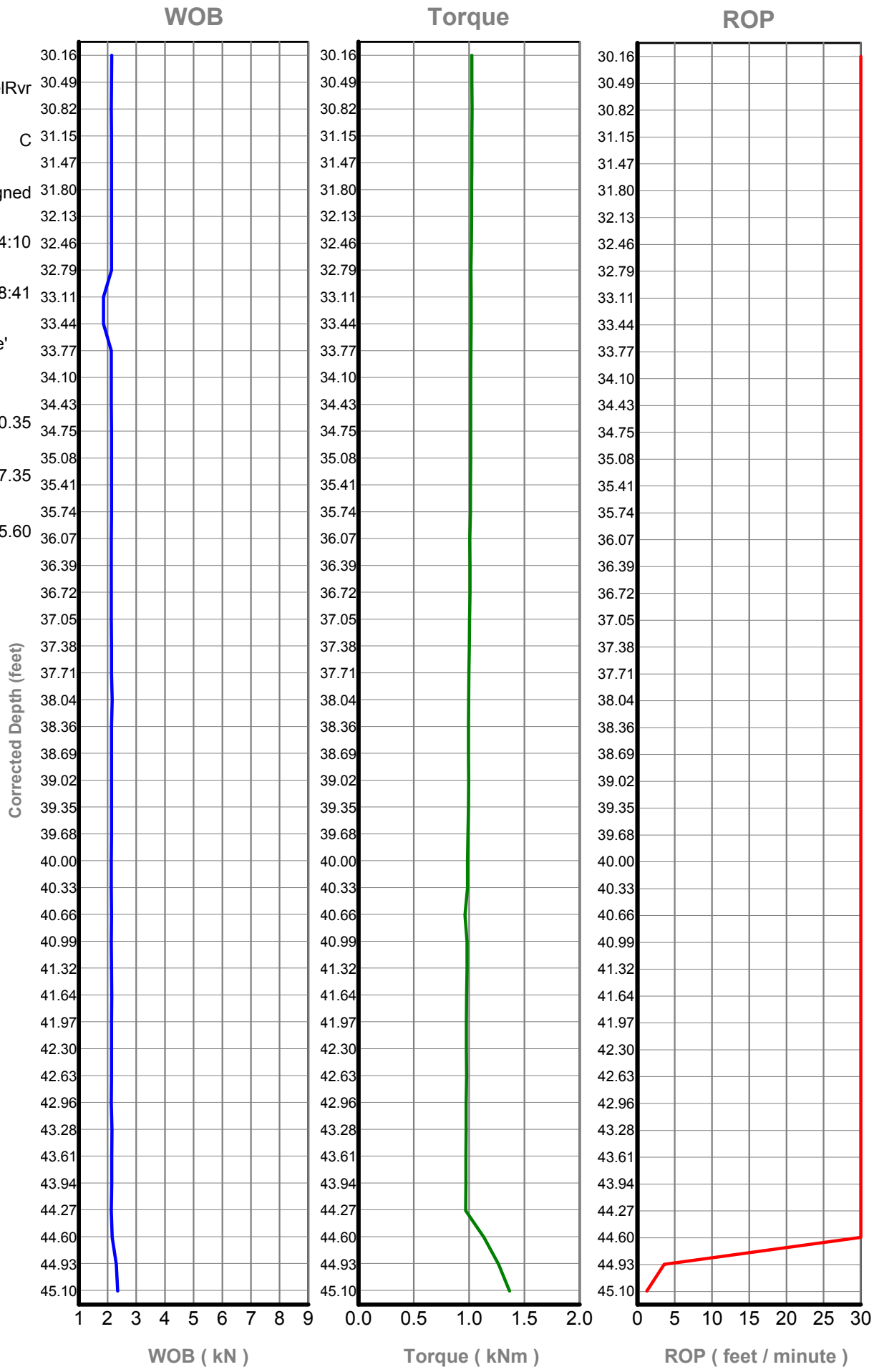
**End Date:**
4/14/2015 10:08:41

**Operator Note:**
'5.6 5.9 c Auto Complete'

**Northing:**
361,650.35

**Easting:**
244,677.35

**Tide (feet):**
5.60



## Hole: KCB-294-16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 18:12:05 | 34.12 | 30.12 | 861 | 2.10 | 0.77 | 47.1 |
| 4/13/2015 18:12:06 | 34.45 | 30.45 | 861 | 2.09 | 0.77 | 47.1 |
| 4/13/2015 18:12:06 | 34.78 | 30.78 | 864 | 2.11 | 0.76 | 47.2 |
| 4/13/2015 18:12:07 | 35.11 | 31.11 | 869 | 2.08 | 0.76 | 47.5 |
| 4/13/2015 18:12:07 | 35.43 | 31.43 | 869 | 2.08 | 0.76 | 47.5 |
| 4/13/2015 18:12:07 | 35.76 | 31.76 | 883 | 2.10 | 0.76 | 48.3 |
| 4/13/2015 18:12:08 | 36.09 | 32.09 | 858 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 18:12:08 | 36.42 | 32.42 | 892 | 2.10 | 0.76 | 48.8 |
| 4/13/2015 18:12:09 | 36.75 | 32.75 | 892 | 2.10 | 0.76 | 48.8 |
| 4/13/2015 18:12:09 | 37.07 | 33.07 | 858 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 18:12:09 | 37.40 | 33.40 | 853 | 2.10 | 0.76 | 46.6 |
| 4/13/2015 18:12:10 | 37.73 | 33.73 | 853 | 2.11 | 0.76 | 46.6 |
| 4/13/2015 18:12:11 | 38.06 | 34.06 | 852 | 2.09 | 0.76 | 46.6 |
| 4/13/2015 18:12:11 | 38.39 | 34.39 | 852 | 2.09 | 0.76 | 46.6 |
| 4/13/2015 18:12:11 | 38.71 | 34.71 | 852 | 2.10 | 0.76 | 46.6 |
| 4/13/2015 18:12:12 | 39.04 | 35.04 | 886 | 2.09 | 0.76 | 48.4 |
| 4/13/2015 18:12:12 | 39.37 | 35.37 | 857 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 18:12:13 | 39.70 | 35.70 | 857 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 18:12:13 | 40.03 | 36.03 | 857 | 2.09 | 0.75 | 46.9 |
| 4/13/2015 18:12:13 | 40.35 | 36.35 | 869 | 2.10 | 0.75 | 47.5 |
| 4/13/2015 18:12:14 | 40.68 | 36.68 | 869 | 2.09 | 0.75 | 47.5 |
| 4/13/2015 18:12:14 | 41.01 | 37.01 | 889 | 2.10 | 0.75 | 48.6 |
| 4/13/2015 18:12:15 | 41.34 | 37.34 | 889 | 2.10 | 0.75 | 48.6 |
| 4/13/2015 18:12:15 | 41.67 | 37.67 | 872 | 2.12 | 0.75 | 47.7 |
| 4/13/2015 18:12:15 | 41.99 | 37.99 | 872 | 2.10 | 0.75 | 47.7 |
| 4/13/2015 18:12:16 | 42.32 | 38.32 | 864 | 2.10 | 0.75 | 47.3 |
| 4/13/2015 18:12:16 | 42.65 | 38.65 | 864 | 2.10 | 0.75 | 47.3 |
| 4/13/2015 18:12:16 | 42.98 | 38.98 | 868 | 2.10 | 0.75 | 47.5 |
| 4/13/2015 18:12:17 | 43.31 | 39.31 | 869 | 2.10 | 0.75 | 47.5 |
| 4/13/2015 18:12:17 | 43.64 | 39.64 | 869 | 2.11 | 0.75 | 47.5 |
| 4/13/2015 18:12:18 | 43.96 | 39.96 | 863 | 2.10 | 0.74 | 47.2 |
| 4/13/2015 18:12:18 | 44.29 | 40.29 | 863 | 2.10 | 0.74 | 47.2 |
| 4/13/2015 18:12:18 | 44.62 | 40.62 | 881 | 2.11 | 0.75 | 48.2 |
| 4/13/2015 18:12:19 | 44.95 | 40.95 | 868 | 2.11 | 0.74 | 47.5 |
| 4/13/2015 18:12:19 | 45.28 | 41.28 | 885 | 2.11 | 0.74 | 48.4 |
| 4/13/2015 18:12:20 | 45.60 | 41.60 | 885 | 2.11 | 0.74 | 48.4 |
| 4/13/2015 18:12:20 | 45.93 | 41.93 | 875 | 2.11 | 0.74 | 47.8 |
| 4/13/2015 18:12:20 | 46.26 | 42.26 | 863 | 2.11 | 0.74 | 47.2 |
| 4/13/2015 18:12:21 | 46.59 | 42.59 | 861 | 2.10 | 0.74 | 47.1 |
| 4/13/2015 18:12:22 | 46.92 | 42.92 | 861 | 2.09 | 0.74 | 47.1 |
| 4/13/2015 18:12:22 | 47.24 | 43.24 | 861 | 2.09 | 0.74 | 47.1 |
| 4/13/2015 18:12:22 | 47.57 | 43.57 | 851 | 2.11 | 0.74 | 46.6 |
| 4/13/2015 18:12:23 | 47.90 | 43.90 | 851 | 2.10 | 0.74 | 46.6 |
| 4/13/2015 18:12:23 | 48.23 | 44.23 | 861 | 2.13 | 0.84 | 47.1 |
| 4/13/2015 18:12:26 | 48.56 | 44.56 | 343 | 2.27 | 0.95 | 18.7 |

## KCB-294-16 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 18:10:45

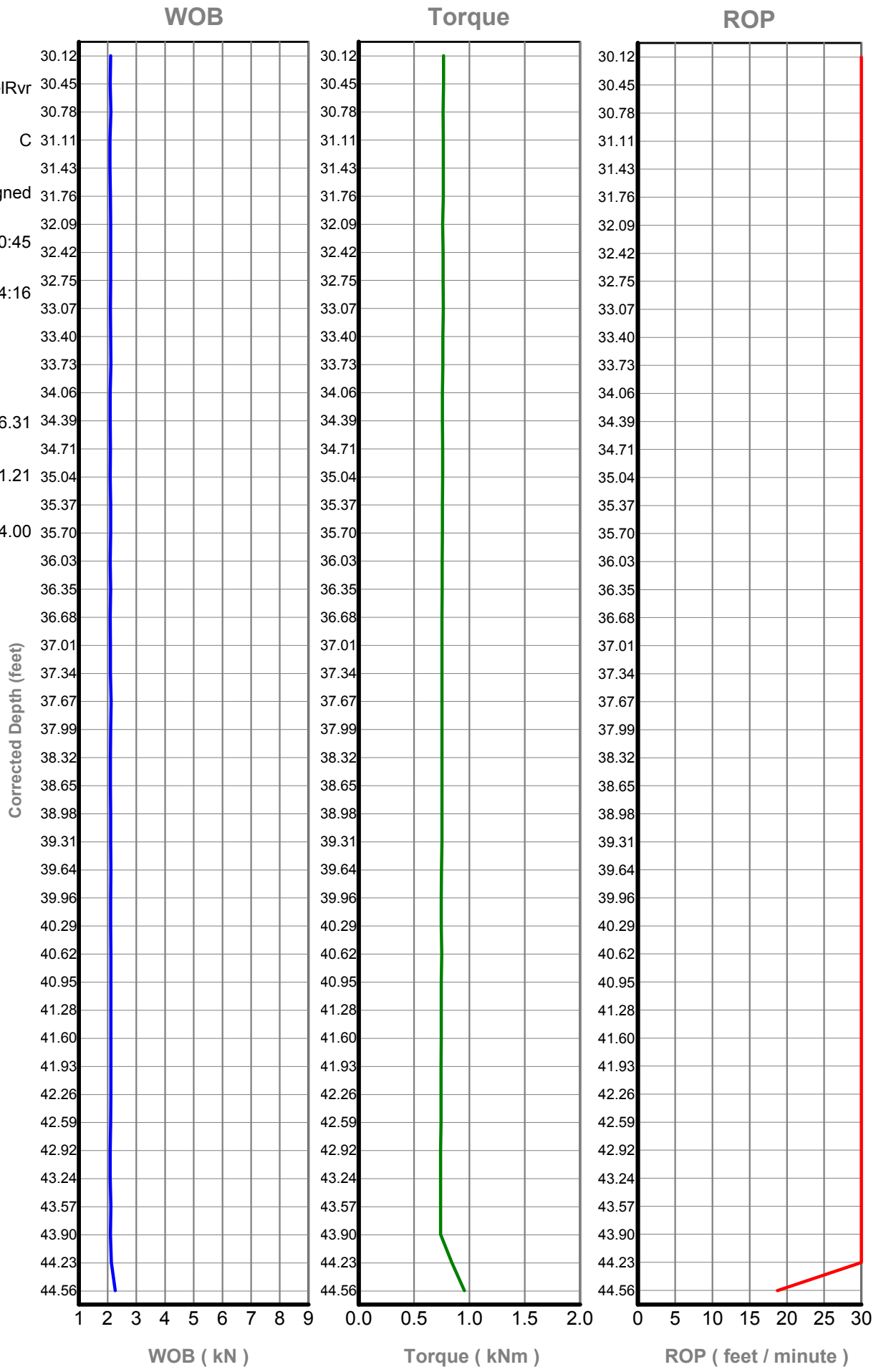
**End Date:**
4/13/2015 18:14:16

**Operator Note:**
'4 3.7 c Auto Complete'

**Northing:**
361,626.31

**Easting:**
244,681.21

**Tide (feet):**
4.00



## Hole: KCB-294-17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 9:59:48 | 35.76 | 30.06 | 838 | 2.17 | 1.10 | 45.8 |
| 4/14/2015 9:59:48 | 36.09 | 30.39 | 833 | 2.18 | 1.10 | 45.5 |
| 4/14/2015 9:59:49 | 36.42 | 30.72 | 835 | 2.14 | 1.10 | 45.7 |
| 4/14/2015 9:59:49 | 36.75 | 31.05 | 835 | 2.14 | 1.10 | 45.7 |
| 4/14/2015 9:59:49 | 37.07 | 31.37 | 827 | 2.16 | 1.10 | 45.2 |
| 4/14/2015 9:59:50 | 37.40 | 31.70 | 835 | 2.15 | 1.10 | 45.7 |
| 4/14/2015 9:59:50 | 37.73 | 32.03 | 833 | 2.16 | 1.10 | 45.5 |
| 4/14/2015 9:59:51 | 38.06 | 32.36 | 836 | 2.16 | 1.10 | 45.7 |
| 4/14/2015 9:59:51 | 38.39 | 32.69 | 836 | 2.16 | 1.10 | 45.7 |
| 4/14/2015 9:59:52 | 38.71 | 33.01 | 836 | 2.16 | 1.10 | 45.7 |
| 4/14/2015 9:59:52 | 39.04 | 33.34 | 838 | 2.15 | 1.10 | 45.8 |
| 4/14/2015 9:59:52 | 39.37 | 33.67 | 838 | 2.16 | 1.10 | 45.8 |
| 4/14/2015 9:59:53 | 39.70 | 34.00 | 835 | 2.15 | 1.09 | 45.7 |
| 4/14/2015 9:59:53 | 40.03 | 34.33 | 833 | 2.15 | 1.10 | 45.6 |
| 4/14/2015 9:59:54 | 40.35 | 34.65 | 833 | 2.15 | 1.10 | 45.6 |
| 4/14/2015 9:59:54 | 40.68 | 34.98 | 826 | 2.14 | 1.10 | 45.2 |
| 4/14/2015 9:59:54 | 41.01 | 35.31 | 831 | 2.16 | 1.10 | 45.4 |
| 4/14/2015 9:59:55 | 41.34 | 35.64 | 839 | 2.15 | 1.09 | 45.9 |
| 4/14/2015 9:59:55 | 41.67 | 35.97 | 829 | 2.14 | 1.09 | 45.3 |
| 4/14/2015 9:59:56 | 41.99 | 36.29 | 829 | 2.14 | 1.09 | 45.3 |
| 4/14/2015 9:59:56 | 42.32 | 36.62 | 844 | 2.15 | 1.09 | 46.2 |
| 4/14/2015 9:59:56 | 42.65 | 36.95 | 843 | 2.17 | 1.09 | 46.1 |
| 4/14/2015 9:59:57 | 42.98 | 37.28 | 838 | 2.15 | 1.09 | 45.8 |
| 4/14/2015 9:59:57 | 43.31 | 37.61 | 829 | 2.15 | 1.09 | 45.3 |
| 4/14/2015 9:59:58 | 43.64 | 37.94 | 835 | 2.16 | 1.06 | 45.7 |
| 4/14/2015 9:59:59 | 43.96 | 38.26 | 835 | 2.16 | 1.06 | 45.7 |
| 4/14/2015 9:59:59 | 44.29 | 38.59 | 830 | 2.15 | 1.08 | 45.4 |
| 4/14/2015 9:59:59 | 44.62 | 38.92 | 806 | 2.16 | 1.07 | 44.1 |
| 4/14/2015 10:00:00 | 44.95 | 39.25 | 806 | 2.14 | 1.07 | 44.1 |
| 4/14/2015 10:00:00 | 45.28 | 39.58 | 816 | 2.16 | 1.08 | 44.6 |
| 4/14/2015 10:00:01 | 45.60 | 39.90 | 818 | 2.16 | 1.07 | 44.7 |
| 4/14/2015 10:00:01 | 45.93 | 40.23 | 818 | 2.16 | 1.07 | 44.7 |
| 4/14/2015 10:00:01 | 46.26 | 40.56 | 801 | 2.15 | 1.06 | 43.8 |
| 4/14/2015 10:00:02 | 46.59 | 40.89 | 801 | 2.15 | 1.06 | 43.8 |
| 4/14/2015 10:00:02 | 46.92 | 41.22 | 805 | 2.14 | 1.06 | 44.0 |
| 4/14/2015 10:00:03 | 47.24 | 41.54 | 815 | 2.16 | 1.06 | 44.6 |
| 4/14/2015 10:00:03 | 47.57 | 41.87 | 815 | 2.15 | 1.05 | 44.6 |
| 4/14/2015 10:00:04 | 47.90 | 42.20 | 815 | 2.15 | 1.05 | 44.6 |
| 4/14/2015 10:00:04 | 48.23 | 42.53 | 811 | 2.16 | 1.06 | 44.3 |
| 4/14/2015 10:00:04 | 48.56 | 42.86 | 816 | 2.15 | 1.05 | 44.6 |
| 4/14/2015 10:00:05 | 48.88 | 43.18 | 807 | 2.15 | 1.05 | 44.1 |
| 4/14/2015 10:00:05 | 49.21 | 43.51 | 807 | 2.15 | 1.05 | 44.1 |
| 4/14/2015 10:00:06 | 49.54 | 43.84 | 801 | 2.15 | 1.05 | 43.8 |
| 4/14/2015 10:00:06 | 49.87 | 44.17 | 801 | 2.15 | 1.05 | 43.8 |
| 4/14/2015 10:00:06 | 50.20 | 44.50 | 801 | 2.17 | 1.08 | 43.8 |
| 4/14/2015 10:00:13 | 50.48 | 44.78 | 0 | 2.31 | 1.47 | 0.0 |

## KCB-294-17 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/14/2015 9:58:19

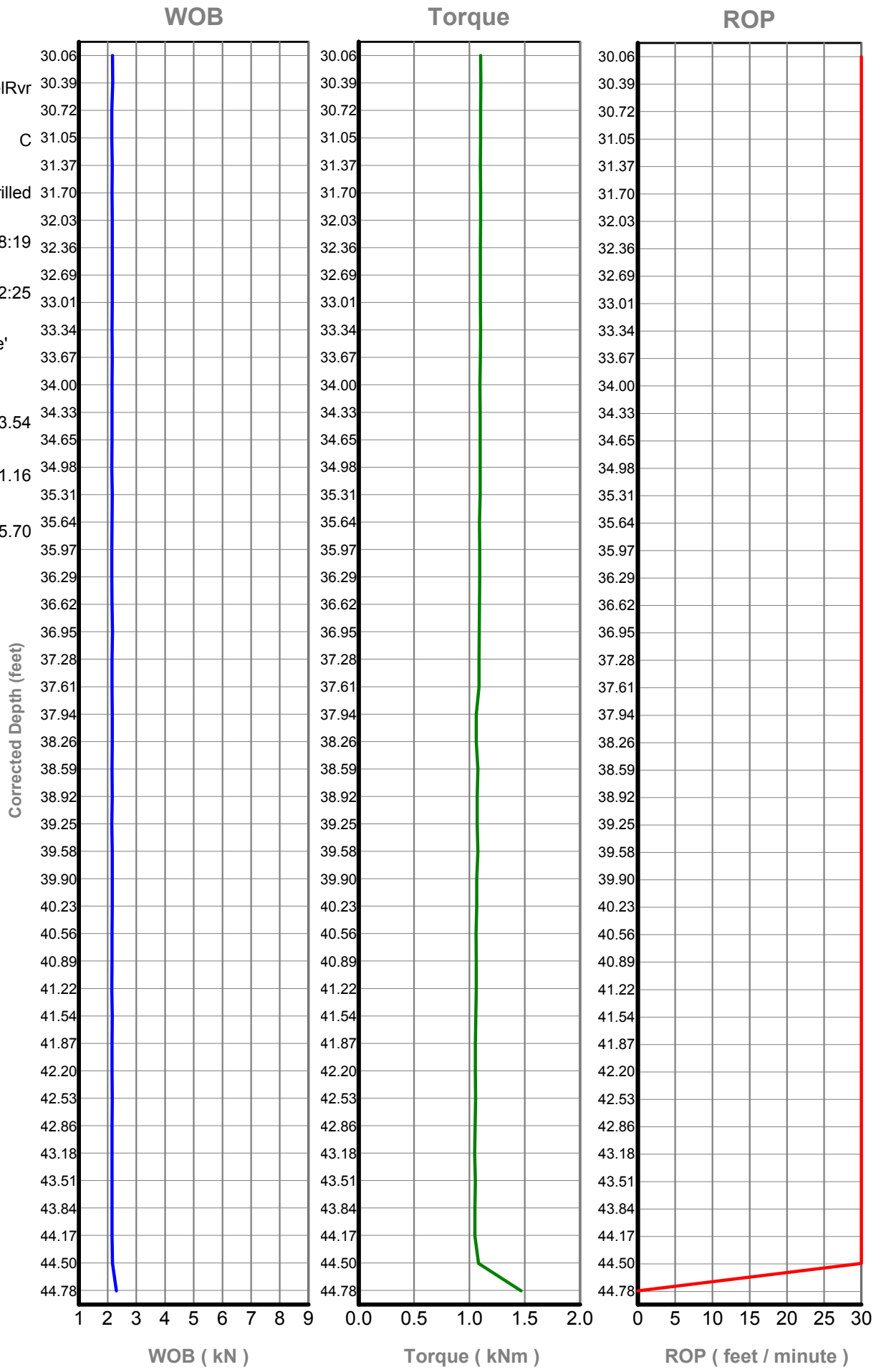
**End Date:**
4/14/2015 10:02:25

**Operator Note:**
'5.7 5.9 c Auto Complete'

**Northing:**
361,653.54

**Easting:**
244,681.16

**Tide (feet):**
5.70



## Hole: KCB-294-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:07:01 | 32.81 | 30.31 | 856 | 2.10 | 0.88 | 46.8 |
| 4/13/2015 17:07:01 | 33.14 | 30.64 | 877 | 2.10 | 0.88 | 47.9 |
| 4/13/2015 17:07:02 | 33.46 | 30.96 | 885 | 2.12 | 0.96 | 48.4 |
| 4/13/2015 17:07:02 | 33.79 | 31.29 | 885 | 2.12 | 0.96 | 48.4 |
| 4/13/2015 17:07:02 | 34.12 | 31.62 | 885 | 2.12 | 0.88 | 48.4 |
| 4/13/2015 17:07:03 | 34.45 | 31.95 | 869 | 2.12 | 0.87 | 47.5 |
| 4/13/2015 17:07:03 | 34.78 | 32.28 | 887 | 2.11 | 0.87 | 48.5 |
| 4/13/2015 17:07:04 | 35.11 | 32.61 | 873 | 2.12 | 0.85 | 47.7 |
| 4/13/2015 17:07:04 | 35.43 | 32.93 | 873 | 2.12 | 0.85 | 47.7 |
| 4/13/2015 17:07:04 | 35.76 | 33.26 | 873 | 2.12 | 0.86 | 47.7 |
| 4/13/2015 17:07:05 | 36.09 | 33.59 | 870 | 2.12 | 0.86 | 47.6 |
| 4/13/2015 17:07:05 | 36.42 | 33.92 | 865 | 2.12 | 0.86 | 47.3 |
| 4/13/2015 17:07:06 | 36.75 | 34.25 | 865 | 2.12 | 0.86 | 47.3 |
| 4/13/2015 17:07:06 | 37.07 | 34.57 | 876 | 2.12 | 0.86 | 47.9 |
| 4/13/2015 17:07:06 | 37.40 | 34.90 | 879 | 2.13 | 0.85 | 48.1 |
| 4/13/2015 17:07:07 | 37.73 | 35.23 | 876 | 2.12 | 0.85 | 47.9 |
| 4/13/2015 17:07:08 | 38.06 | 35.56 | 876 | 2.12 | 0.85 | 47.9 |
| 4/13/2015 17:07:08 | 38.39 | 35.89 | 876 | 2.12 | 0.85 | 47.9 |
| 4/13/2015 17:07:08 | 38.71 | 36.21 | 879 | 2.12 | 0.85 | 48.1 |
| 4/13/2015 17:07:09 | 39.04 | 36.54 | 870 | 2.11 | 0.84 | 47.6 |
| 4/13/2015 17:07:09 | 39.37 | 36.87 | 873 | 2.12 | 0.84 | 47.7 |
| 4/13/2015 17:07:10 | 39.70 | 37.20 | 873 | 2.12 | 0.84 | 47.7 |
| 4/13/2015 17:07:10 | 40.03 | 37.53 | 870 | 2.10 | 0.84 | 47.6 |
| 4/13/2015 17:07:10 | 40.35 | 37.85 | 879 | 2.11 | 0.84 | 48.1 |
| 4/13/2015 17:07:11 | 40.68 | 38.18 | 876 | 2.11 | 0.84 | 47.9 |
| 4/13/2015 17:07:11 | 41.01 | 38.51 | 881 | 2.14 | 0.84 | 48.2 |
| 4/13/2015 17:07:12 | 41.34 | 38.84 | 881 | 2.14 | 0.84 | 48.2 |
| 4/13/2015 17:07:12 | 41.67 | 39.17 | 879 | 2.12 | 0.83 | 48.1 |
| 4/13/2015 17:07:12 | 41.99 | 39.49 | 871 | 2.12 | 0.83 | 47.6 |
| 4/13/2015 17:07:13 | 42.32 | 39.82 | 877 | 2.12 | 0.83 | 47.9 |
| 4/13/2015 17:07:13 | 42.65 | 40.15 | 879 | 2.12 | 0.82 | 48.1 |
| 4/13/2015 17:07:14 | 42.98 | 40.48 | 879 | 2.12 | 0.82 | 48.1 |
| 4/13/2015 17:07:14 | 43.31 | 40.81 | 869 | 2.12 | 0.82 | 47.5 |
| 4/13/2015 17:07:14 | 43.64 | 41.14 | 874 | 2.11 | 0.82 | 47.8 |
| 4/13/2015 17:07:15 | 43.96 | 41.46 | 879 | 2.12 | 0.82 | 48.1 |
| 4/13/2015 17:07:15 | 44.29 | 41.79 | 879 | 2.12 | 0.82 | 48.1 |
| 4/13/2015 17:07:15 | 44.62 | 42.12 | 870 | 2.12 | 0.81 | 47.6 |
| 4/13/2015 17:07:16 | 44.95 | 42.45 | 851 | 2.12 | 0.81 | 46.6 |
| 4/13/2015 17:07:16 | 45.28 | 42.78 | 851 | 2.12 | 0.81 | 46.6 |
| 4/13/2015 17:07:17 | 45.60 | 43.10 | 864 | 2.12 | 0.81 | 47.3 |
| 4/13/2015 17:07:18 | 45.93 | 43.43 | 864 | 2.12 | 0.81 | 47.3 |
| 4/13/2015 17:07:18 | 46.26 | 43.76 | 856 | 2.13 | 0.82 | 46.8 |
| 4/13/2015 17:07:30 | 46.59 | 44.09 | 0 | 2.15 | 0.98 | 0.0 |
| 4/13/2015 17:07:37 | 46.81 | 44.31 | 0 | 2.33 | 1.34 | 0.0 |

## KCB-294-2 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:04:37

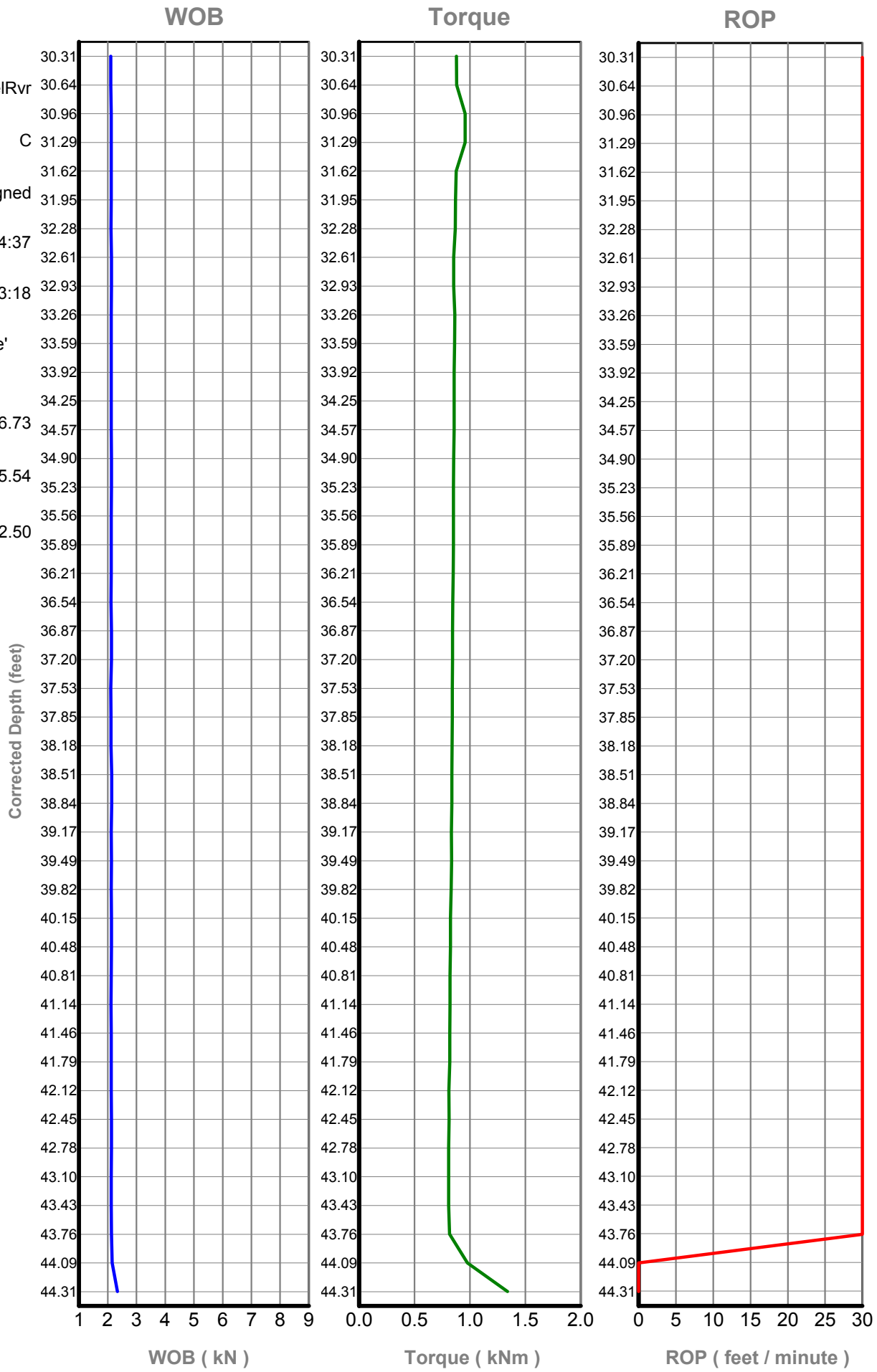
**End Date:**
4/13/2015 17:13:18

**Operator Note:**
'2.5 2.2 c Auto Complete'

**Northing:**
361,656.73

**Easting:**
244,655.54

**Tide (feet):**
2.50



## Hole: KCB-294-3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:35:41 | 35.11 | 30.11 | 876 | 2.11 | 0.93 | 47.9 |
| 4/14/2015 10:35:41 | 35.43 | 30.43 | 857 | 2.12 | 0.94 | 46.8 |
| 4/14/2015 10:35:41 | 35.76 | 30.76 | 862 | 2.12 | 0.93 | 47.1 |
| 4/14/2015 10:35:42 | 36.09 | 31.09 | 864 | 2.11 | 0.93 | 47.2 |
| 4/14/2015 10:35:43 | 36.42 | 31.42 | 864 | 2.11 | 0.93 | 47.2 |
| 4/14/2015 10:35:43 | 36.75 | 31.75 | 877 | 2.12 | 0.92 | 48.0 |
| 4/14/2015 10:35:43 | 37.07 | 32.07 | 869 | 2.12 | 0.92 | 47.5 |
| 4/14/2015 10:35:44 | 37.40 | 32.40 | 886 | 2.12 | 0.92 | 48.4 |
| 4/14/2015 10:35:44 | 37.73 | 32.73 | 878 | 2.10 | 0.92 | 48.0 |
| 4/14/2015 10:35:45 | 38.06 | 33.06 | 878 | 2.10 | 0.92 | 48.0 |
| 4/14/2015 10:35:45 | 38.39 | 33.39 | 873 | 2.10 | 0.92 | 47.7 |
| 4/14/2015 10:35:45 | 38.71 | 33.71 | 870 | 2.11 | 0.92 | 47.6 |
| 4/14/2015 10:35:46 | 39.04 | 34.04 | 870 | 2.12 | 0.92 | 47.6 |
| 4/14/2015 10:35:46 | 39.37 | 34.37 | 865 | 2.13 | 0.92 | 47.3 |
| 4/14/2015 10:35:47 | 39.70 | 34.70 | 865 | 2.13 | 0.92 | 47.3 |
| 4/14/2015 10:35:47 | 40.03 | 35.03 | 873 | 2.10 | 0.92 | 47.7 |
| 4/14/2015 10:35:47 | 40.35 | 35.35 | 870 | 2.12 | 0.91 | 47.6 |
| 4/14/2015 10:35:48 | 40.68 | 35.68 | 870 | 2.10 | 0.92 | 47.6 |
| 4/14/2015 10:35:48 | 41.01 | 36.01 | 870 | 2.12 | 0.91 | 47.6 |
| 4/14/2015 10:35:49 | 41.34 | 36.34 | 870 | 2.12 | 0.91 | 47.6 |
| 4/14/2015 10:35:49 | 41.67 | 36.67 | 878 | 2.10 | 0.91 | 48.0 |
| 4/14/2015 10:35:49 | 41.99 | 36.99 | 870 | 2.11 | 0.91 | 47.6 |
| 4/14/2015 10:35:50 | 42.32 | 37.32 | 867 | 2.12 | 0.91 | 47.4 |
| 4/14/2015 10:35:50 | 42.65 | 37.65 | 867 | 2.12 | 0.91 | 47.4 |
| 4/14/2015 10:35:50 | 42.98 | 37.98 | 859 | 2.10 | 0.91 | 47.0 |
| 4/14/2015 10:35:51 | 43.31 | 38.31 | 867 | 2.11 | 0.91 | 47.4 |
| 4/14/2015 10:35:51 | 43.64 | 38.64 | 856 | 2.12 | 0.91 | 46.8 |
| 4/14/2015 10:35:52 | 43.96 | 38.96 | 859 | 2.12 | 0.91 | 47.0 |
| 4/14/2015 10:35:53 | 44.29 | 39.29 | 859 | 2.12 | 0.91 | 47.0 |
| 4/14/2015 10:35:53 | 44.62 | 39.62 | 852 | 2.11 | 0.90 | 46.6 |
| 4/14/2015 10:35:53 | 44.95 | 39.95 | 852 | 2.11 | 0.91 | 46.6 |
| 4/14/2015 10:35:54 | 45.28 | 40.28 | 861 | 2.11 | 0.90 | 47.1 |
| 4/14/2015 10:35:54 | 45.60 | 40.60 | 853 | 2.12 | 0.90 | 46.6 |
| 4/14/2015 10:35:55 | 45.93 | 40.93 | 853 | 2.12 | 0.90 | 46.6 |
| 4/14/2015 10:35:55 | 46.26 | 41.26 | 852 | 2.11 | 0.90 | 46.6 |
| 4/14/2015 10:35:55 | 46.59 | 41.59 | 850 | 2.10 | 0.90 | 46.5 |
| 4/14/2015 10:35:56 | 46.92 | 41.92 | 857 | 2.11 | 0.90 | 46.9 |
| 4/14/2015 10:35:56 | 47.24 | 42.24 | 853 | 2.11 | 0.90 | 46.6 |
| 4/14/2015 10:35:57 | 47.57 | 42.57 | 853 | 2.11 | 0.90 | 46.6 |
| 4/14/2015 10:35:57 | 47.90 | 42.90 | 850 | 2.11 | 0.89 | 46.5 |
| 4/14/2015 10:35:57 | 48.23 | 43.23 | 861 | 2.11 | 0.89 | 47.1 |
| 4/14/2015 10:35:58 | 48.56 | 43.56 | 859 | 2.11 | 0.89 | 47.0 |
| 4/14/2015 10:35:58 | 48.88 | 43.88 | 864 | 2.11 | 0.90 | 47.2 |
| 4/14/2015 10:35:59 | 49.21 | 44.21 | 864 | 2.11 | 0.90 | 47.2 |
| 4/14/2015 10:35:59 | 49.54 | 44.54 | 856 | 2.11 | 0.89 | 46.8 |
| 4/14/2015 10:35:59 | 49.87 | 44.87 | 859 | 2.14 | 1.01 | 47.0 |
| 4/14/2015 10:36:01 | 50.20 | 45.20 | 408 | 2.37 | 1.29 | 22.3 |
| 4/14/2015 10:36:12 | 50.53 | 45.53 | 63 | 2.21 | 1.26 | 3.4 |
| 4/14/2015 10:37:15 | 50.85 | 45.85 | 38 | 2.12 | 0.84 | 2.1 |
| 4/14/2015 10:37:15 | 51.18 | 46.18 | 207 | 2.12 | 0.84 | 11.3 |
| 4/14/2015 10:37:16 | 51.51 | 46.51 | 207 | 2.12 | 0.84 | 11.3 |
| 4/14/2015 10:37:16 | 51.84 | 46.84 | 383 | 2.12 | 0.88 | 21.0 |
| 4/14/2015 10:37:17 | 52.17 | 47.17 | 546 | 2.19 | 1.13 | 29.9 |
| 4/14/2015 10:37:29 | 52.49 | 47.49 | 41 | 2.36 | 1.42 | 2.3 |
| 4/14/2015 10:37:31 | 52.66 | 47.66 | 74 | 2.29 | 1.35 | 4.1 |

## KCB-294-3 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:34:06

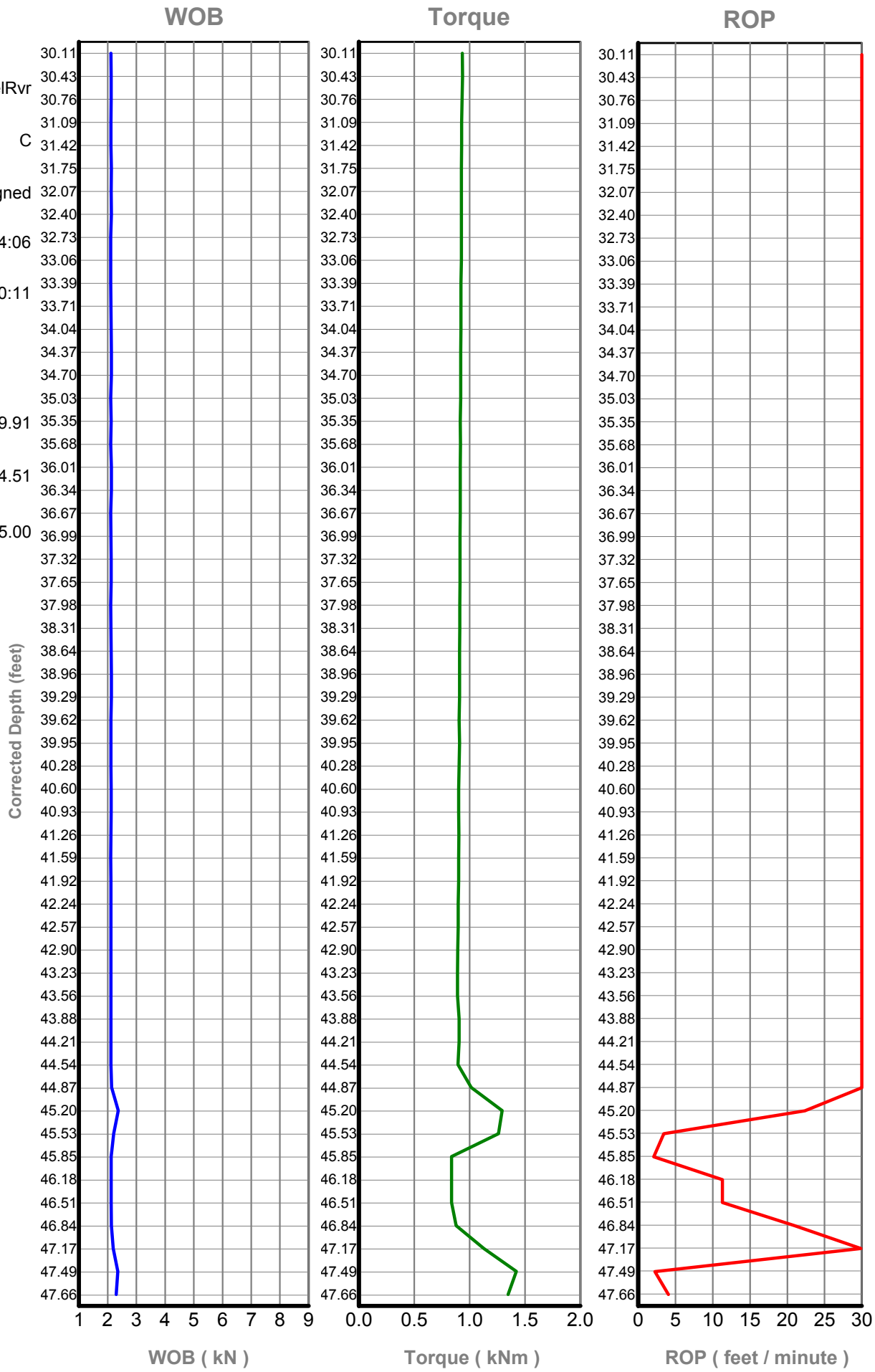
**End Date:**
4/14/2015 10:40:11

**Operator Note:**
'5 5.2 c Auto Complete'

**Northing:**
361,629.91

**Easting:**
244,654.51

**Tide (feet):**
5.00



## Hole: KCB-294-4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:19:21 | 32.81 | 30.01 | 847 | 2.11 | 0.77 | 46.3 |
| 4/13/2015 17:19:21 | 33.14 | 30.34 | 853 | 2.11 | 0.77 | 46.6 |
| 4/13/2015 17:19:22 | 33.46 | 30.66 | 850 | 2.14 | 0.77 | 46.5 |
| 4/13/2015 17:19:22 | 33.79 | 30.99 | 850 | 2.12 | 0.77 | 46.5 |
| 4/13/2015 17:19:23 | 34.12 | 31.32 | 850 | 2.12 | 0.77 | 46.5 |
| 4/13/2015 17:19:23 | 34.45 | 31.65 | 845 | 2.12 | 0.77 | 46.2 |
| 4/13/2015 17:19:23 | 34.78 | 31.98 | 853 | 2.11 | 0.77 | 46.6 |
| 4/13/2015 17:19:24 | 35.11 | 32.31 | 850 | 2.12 | 0.77 | 46.5 |
| 4/13/2015 17:19:24 | 35.43 | 32.63 | 853 | 2.13 | 0.77 | 46.6 |
| 4/13/2015 17:19:25 | 35.76 | 32.96 | 853 | 2.13 | 0.77 | 46.6 |
| 4/13/2015 17:19:25 | 36.09 | 33.29 | 850 | 2.11 | 0.77 | 46.5 |
| 4/13/2015 17:19:25 | 36.42 | 33.62 | 853 | 2.10 | 0.77 | 46.6 |
| 4/13/2015 17:19:26 | 36.75 | 33.95 | 847 | 2.12 | 0.76 | 46.3 |
| 4/13/2015 17:19:27 | 37.07 | 34.27 | 847 | 2.10 | 0.77 | 46.3 |
| 4/13/2015 17:19:27 | 37.40 | 34.60 | 847 | 2.10 | 0.77 | 46.3 |
| 4/13/2015 17:19:27 | 37.73 | 34.93 | 842 | 2.11 | 0.77 | 46.0 |
| 4/13/2015 17:19:28 | 38.06 | 35.26 | 848 | 2.11 | 0.76 | 46.4 |
| 4/13/2015 17:19:28 | 38.39 | 35.59 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:19:29 | 38.71 | 35.91 | 859 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 17:19:29 | 39.04 | 36.24 | 859 | 2.10 | 0.76 | 46.9 |
| 4/13/2015 17:19:29 | 39.37 | 36.57 | 851 | 2.11 | 0.77 | 46.5 |
| 4/13/2015 17:19:30 | 39.70 | 36.90 | 859 | 2.10 | 0.77 | 47.0 |
| 4/13/2015 17:19:30 | 40.03 | 37.23 | 864 | 2.12 | 0.78 | 47.2 |
| 4/13/2015 17:19:31 | 40.35 | 37.55 | 856 | 2.10 | 0.76 | 46.8 |
| 4/13/2015 17:19:31 | 40.68 | 37.88 | 856 | 2.10 | 0.76 | 46.8 |
| 4/13/2015 17:19:31 | 41.01 | 38.21 | 851 | 2.10 | 0.77 | 46.6 |
| 4/13/2015 17:19:32 | 41.34 | 38.54 | 867 | 2.11 | 0.76 | 47.4 |
| 4/13/2015 17:19:32 | 41.67 | 38.87 | 859 | 2.12 | 0.77 | 47.0 |
| 4/13/2015 17:19:33 | 41.99 | 39.19 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:19:33 | 42.32 | 39.52 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:19:33 | 42.65 | 39.85 | 856 | 2.12 | 0.76 | 46.8 |
| 4/13/2015 17:19:34 | 42.98 | 40.18 | 864 | 2.12 | 0.77 | 47.2 |
| 4/13/2015 17:19:34 | 43.31 | 40.51 | 853 | 2.12 | 0.77 | 46.6 |
| 4/13/2015 17:19:35 | 43.64 | 40.84 | 853 | 2.12 | 0.76 | 46.6 |
| 4/13/2015 17:19:35 | 43.96 | 41.16 | 853 | 2.12 | 0.76 | 46.6 |
| 4/13/2015 17:19:35 | 44.29 | 41.49 | 840 | 2.12 | 0.76 | 45.9 |
| 4/13/2015 17:19:36 | 44.62 | 41.82 | 854 | 2.12 | 0.76 | 46.7 |
| 4/13/2015 17:19:36 | 44.95 | 42.15 | 843 | 2.12 | 0.77 | 46.1 |
| 4/13/2015 17:19:37 | 45.28 | 42.48 | 848 | 2.12 | 0.76 | 46.4 |
| 4/13/2015 17:19:38 | 45.60 | 42.80 | 848 | 2.12 | 0.76 | 46.4 |
| 4/13/2015 17:19:38 | 45.93 | 43.13 | 845 | 2.12 | 0.76 | 46.2 |
| 4/13/2015 17:19:38 | 46.26 | 43.46 | 858 | 2.11 | 0.76 | 46.9 |
| 4/13/2015 17:19:39 | 46.59 | 43.79 | 841 | 2.12 | 0.76 | 46.0 |
| 4/13/2015 17:19:39 | 46.92 | 44.12 | 846 | 2.12 | 0.77 | 46.3 |
| 4/13/2015 17:19:40 | 47.24 | 44.44 | 841 | 2.14 | 0.87 | 46.0 |
| 4/13/2015 17:19:40 | 47.57 | 44.77 | 841 | 2.14 | 0.87 | 46.0 |
| 4/13/2015 17:20:05 | 47.90 | 45.10 | 0 | 2.25 | 1.33 | 0.0 |
| 4/13/2015 17:20:05 | 48.04 | 45.24 | 0 | 2.25 | 1.33 | 0.0 |

## KCB-294-4 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:17:08

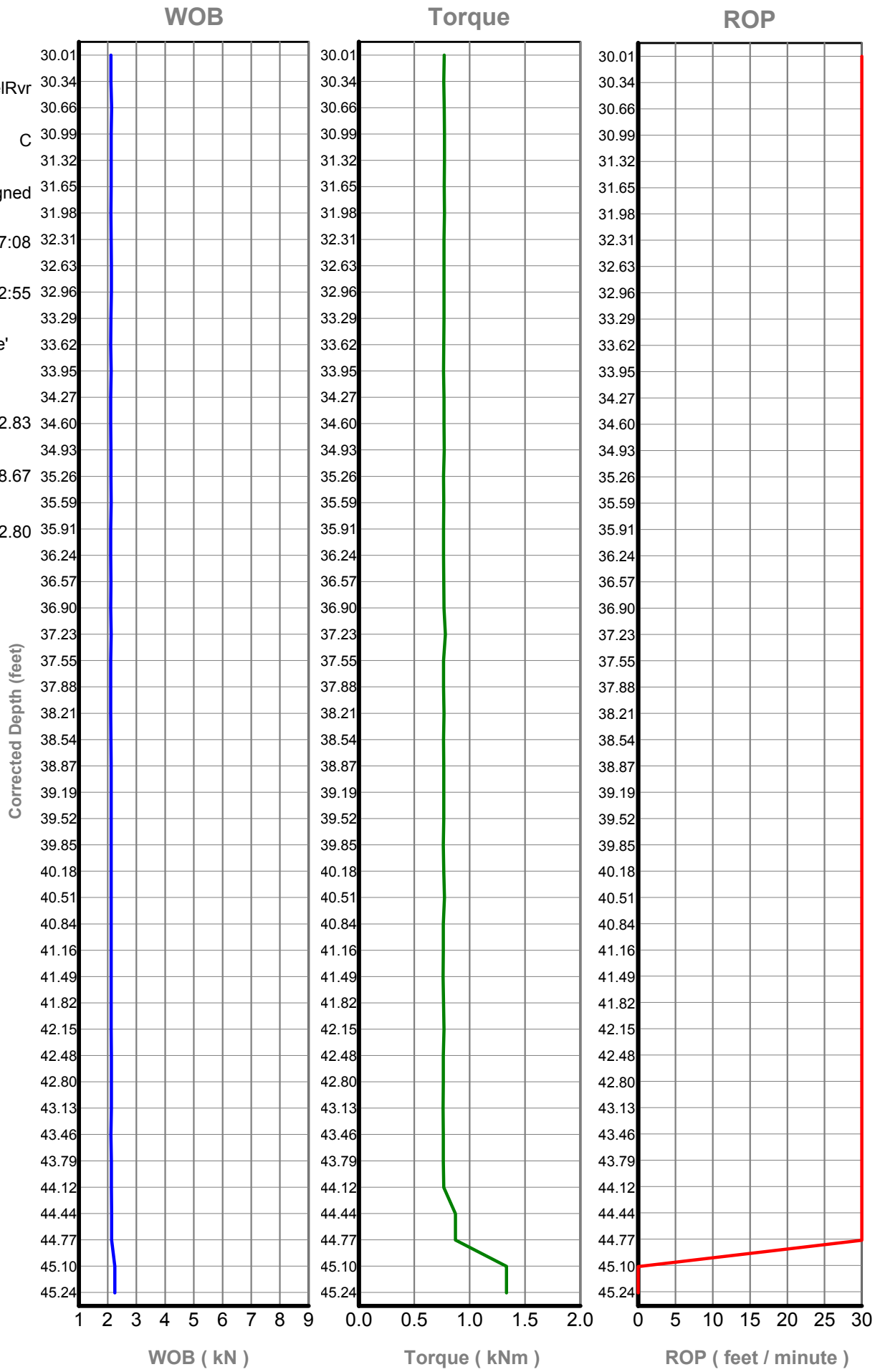
**End Date:**
4/13/2015 17:22:55

**Operator Note:**
'2.8 2`5 c Auto Complete'

**Northing:**
361,652.83

**Easting:**
244,658.67

**Tide (feet):**
2.80



## Hole: KCB-294-5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:29:37 | 35.11 | 30.01 | 884 | 2.12 | 0.94 | 48.4 |
| 4/14/2015 10:29:38 | 35.43 | 30.33 | 873 | 2.13 | 0.93 | 47.7 |
| 4/14/2015 10:29:38 | 35.76 | 30.66 | 870 | 2.12 | 0.94 | 47.6 |
| 4/14/2015 10:29:39 | 36.09 | 30.99 | 870 | 2.12 | 0.94 | 47.6 |
| 4/14/2015 10:29:39 | 36.42 | 31.32 | 862 | 2.12 | 0.94 | 47.1 |
| 4/14/2015 10:29:39 | 36.75 | 31.65 | 870 | 2.12 | 0.93 | 47.6 |
| 4/14/2015 10:29:40 | 37.07 | 31.97 | 867 | 2.12 | 0.93 | 47.4 |
| 4/14/2015 10:29:40 | 37.40 | 32.30 | 867 | 2.12 | 0.92 | 47.4 |
| 4/14/2015 10:29:41 | 37.73 | 32.63 | 867 | 2.12 | 0.92 | 47.4 |
| 4/14/2015 10:29:41 | 38.06 | 32.96 | 870 | 2.12 | 0.92 | 47.6 |
| 4/14/2015 10:29:41 | 38.39 | 33.29 | 881 | 2.14 | 0.92 | 48.2 |
| 4/14/2015 10:29:42 | 38.71 | 33.61 | 870 | 2.12 | 0.92 | 47.6 |
| 4/14/2015 10:29:42 | 39.04 | 33.94 | 875 | 2.12 | 0.92 | 47.9 |
| 4/14/2015 10:29:43 | 39.37 | 34.27 | 875 | 2.12 | 0.92 | 47.9 |
| 4/14/2015 10:29:43 | 39.70 | 34.60 | 870 | 2.11 | 0.92 | 47.6 |
| 4/14/2015 10:29:43 | 40.03 | 34.93 | 876 | 2.12 | 0.92 | 47.9 |
| 4/14/2015 10:29:44 | 40.35 | 35.25 | 873 | 2.12 | 0.91 | 47.7 |
| 4/14/2015 10:29:44 | 40.68 | 35.58 | 873 | 2.12 | 0.91 | 47.7 |
| 4/14/2015 10:29:44 | 41.01 | 35.91 | 870 | 2.12 | 0.91 | 47.6 |
| 4/14/2015 10:29:45 | 41.34 | 36.24 | 868 | 2.12 | 0.91 | 47.4 |
| 4/14/2015 10:29:45 | 41.67 | 36.57 | 876 | 2.12 | 0.91 | 47.9 |
| 4/14/2015 10:29:46 | 41.99 | 36.89 | 867 | 2.12 | 0.91 | 47.4 |
| 4/14/2015 10:29:46 | 42.32 | 37.22 | 867 | 2.12 | 0.91 | 47.4 |
| 4/14/2015 10:29:46 | 42.65 | 37.55 | 867 | 2.11 | 0.91 | 47.4 |
| 4/14/2015 10:29:47 | 42.98 | 37.88 | 867 | 2.13 | 0.91 | 47.4 |
| 4/14/2015 10:29:47 | 43.31 | 38.21 | 864 | 2.12 | 0.91 | 47.3 |
| 4/14/2015 10:29:48 | 43.64 | 38.54 | 862 | 2.12 | 0.91 | 47.1 |
| 4/14/2015 10:29:49 | 43.96 | 38.86 | 862 | 2.12 | 0.91 | 47.1 |
| 4/14/2015 10:29:49 | 44.29 | 39.19 | 862 | 2.12 | 0.91 | 47.1 |
| 4/14/2015 10:29:49 | 44.62 | 39.52 | 856 | 2.12 | 0.91 | 46.8 |
| 4/14/2015 10:29:50 | 44.95 | 39.85 | 864 | 2.12 | 0.91 | 47.3 |
| 4/14/2015 10:29:50 | 45.28 | 40.18 | 862 | 2.12 | 0.90 | 47.1 |
| 4/14/2015 10:29:51 | 45.60 | 40.50 | 862 | 2.12 | 0.90 | 47.1 |
| 4/14/2015 10:29:51 | 45.93 | 40.83 | 850 | 2.12 | 0.90 | 46.5 |
| 4/14/2015 10:29:51 | 46.26 | 41.16 | 856 | 2.12 | 0.90 | 46.8 |
| 4/14/2015 10:29:52 | 46.59 | 41.49 | 856 | 2.12 | 0.90 | 46.8 |
| 4/14/2015 10:29:52 | 46.92 | 41.82 | 853 | 2.12 | 0.90 | 46.6 |
| 4/14/2015 10:29:53 | 47.24 | 42.14 | 853 | 2.12 | 0.90 | 46.6 |
| 4/14/2015 10:29:53 | 47.57 | 42.47 | 853 | 2.13 | 0.90 | 46.6 |
| 4/14/2015 10:29:53 | 47.90 | 42.80 | 846 | 2.12 | 0.89 | 46.3 |
| 4/14/2015 10:29:54 | 48.23 | 43.13 | 846 | 2.12 | 0.90 | 46.3 |
| 4/14/2015 10:29:54 | 48.56 | 43.46 | 852 | 2.19 | 1.11 | 46.6 |
| 4/14/2015 10:29:59 | 48.81 | 43.71 | 15 | 1.83 | 1.18 | 0.8 |

## KCB-294-5 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:28:08

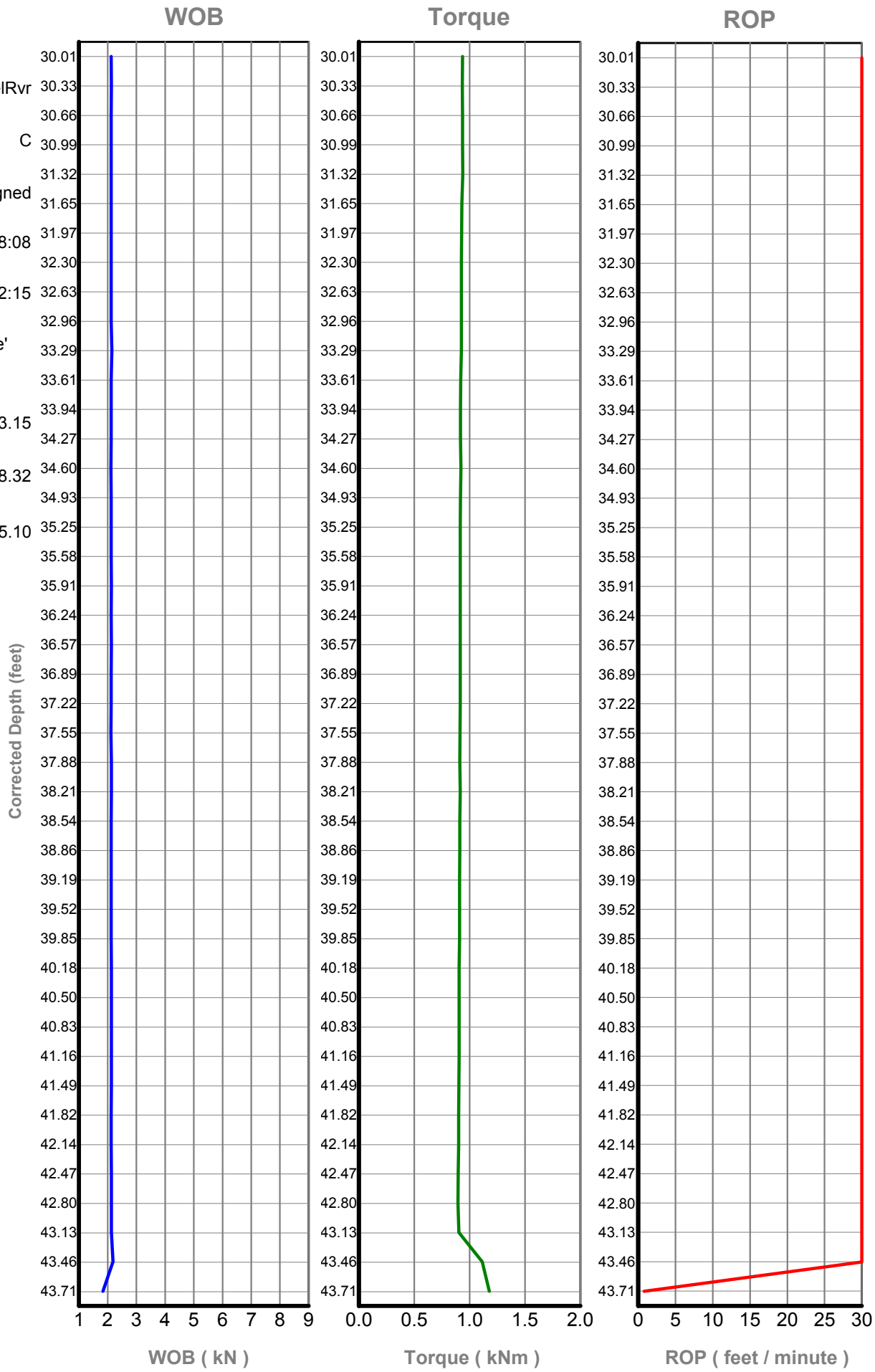
**End Date:**
4/14/2015 10:32:15

**Operator Note:**
'5.1 5.3 c Auto Complete'

**Northing:**
361,633.15

**Easting:**
244,658.32

**Tide (feet):**
5.10



## Hole: KCB-294-6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:28:59 | 32.81 | 30.01 | 859 | 2.12 | 0.77 | 47.0 |
| 4/13/2015 17:28:59 | 33.14 | 30.34 | 867 | 2.10 | 0.77 | 47.4 |
| 4/13/2015 17:29:00 | 33.46 | 30.66 | 864 | 2.11 | 0.77 | 47.3 |
| 4/13/2015 17:29:00 | 33.79 | 30.99 | 864 | 2.12 | 0.77 | 47.3 |
| 4/13/2015 17:29:01 | 34.12 | 31.32 | 855 | 2.12 | 0.76 | 46.7 |
| 4/13/2015 17:29:01 | 34.45 | 31.65 | 855 | 2.12 | 0.76 | 46.7 |
| 4/13/2015 17:29:01 | 34.78 | 31.98 | 866 | 2.12 | 0.77 | 47.3 |
| 4/13/2015 17:29:02 | 35.11 | 32.31 | 860 | 2.11 | 0.77 | 47.0 |
| 4/13/2015 17:29:02 | 35.43 | 32.63 | 863 | 2.10 | 0.77 | 47.2 |
| 4/13/2015 17:29:03 | 35.76 | 32.96 | 857 | 2.11 | 0.77 | 46.9 |
| 4/13/2015 17:29:03 | 36.09 | 33.29 | 857 | 2.11 | 0.77 | 46.9 |
| 4/13/2015 17:29:03 | 36.42 | 33.62 | 870 | 2.10 | 0.77 | 47.6 |
| 4/13/2015 17:29:04 | 36.75 | 33.95 | 864 | 2.11 | 0.77 | 47.2 |
| 4/13/2015 17:29:04 | 37.07 | 34.27 | 859 | 2.12 | 0.77 | 47.0 |
| 4/13/2015 17:29:05 | 37.40 | 34.60 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:29:05 | 37.73 | 34.93 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:29:05 | 38.06 | 35.26 | 864 | 2.10 | 0.77 | 47.2 |
| 4/13/2015 17:29:06 | 38.39 | 35.59 | 861 | 2.10 | 0.77 | 47.1 |
| 4/13/2015 17:29:06 | 38.71 | 35.91 | 862 | 2.12 | 0.77 | 47.1 |
| 4/13/2015 17:29:07 | 39.04 | 36.24 | 862 | 2.12 | 0.77 | 47.1 |
| 4/13/2015 17:29:07 | 39.37 | 36.57 | 862 | 2.12 | 0.77 | 47.1 |
| 4/13/2015 17:29:07 | 39.70 | 36.90 | 864 | 2.12 | 0.77 | 47.3 |
| 4/13/2015 17:29:08 | 40.03 | 37.23 | 859 | 2.10 | 0.77 | 46.9 |
| 4/13/2015 17:29:08 | 40.35 | 37.55 | 861 | 2.10 | 0.76 | 47.1 |
| 4/13/2015 17:29:09 | 40.68 | 37.88 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:29:09 | 41.01 | 38.21 | 856 | 2.12 | 0.77 | 46.8 |
| 4/13/2015 17:29:09 | 41.34 | 38.54 | 864 | 2.11 | 0.76 | 47.3 |
| 4/13/2015 17:29:10 | 41.67 | 38.87 | 861 | 2.12 | 0.76 | 47.1 |
| 4/13/2015 17:29:11 | 41.99 | 39.19 | 861 | 2.12 | 0.76 | 47.1 |
| 4/13/2015 17:29:11 | 42.32 | 39.52 | 861 | 2.12 | 0.76 | 47.1 |
| 4/13/2015 17:29:11 | 42.65 | 39.85 | 861 | 2.10 | 0.76 | 47.1 |
| 4/13/2015 17:29:12 | 42.98 | 40.18 | 861 | 2.11 | 0.76 | 47.1 |
| 4/13/2015 17:29:12 | 43.31 | 40.51 | 858 | 2.11 | 0.76 | 46.9 |
| 4/13/2015 17:29:13 | 43.64 | 40.84 | 858 | 2.12 | 0.77 | 46.9 |
| 4/13/2015 17:29:13 | 43.96 | 41.16 | 858 | 2.12 | 0.77 | 46.9 |
| 4/13/2015 17:29:13 | 44.29 | 41.49 | 849 | 2.12 | 0.76 | 46.4 |
| 4/13/2015 17:29:14 | 44.62 | 41.82 | 854 | 2.12 | 0.76 | 46.7 |
| 4/13/2015 17:29:14 | 44.95 | 42.15 | 856 | 2.11 | 0.76 | 46.8 |
| 4/13/2015 17:29:15 | 45.28 | 42.48 | 856 | 2.12 | 0.76 | 46.8 |
| 4/13/2015 17:29:15 | 45.60 | 42.80 | 853 | 2.11 | 0.76 | 46.7 |
| 4/13/2015 17:29:16 | 45.93 | 43.13 | 853 | 2.11 | 0.76 | 46.7 |
| 4/13/2015 17:29:16 | 46.26 | 43.46 | 858 | 2.11 | 0.76 | 46.9 |
| 4/13/2015 17:29:16 | 46.59 | 43.79 | 852 | 2.11 | 0.76 | 46.6 |
| 4/13/2015 17:29:17 | 46.92 | 44.12 | 847 | 2.12 | 0.76 | 46.3 |
| 4/13/2015 17:29:17 | 47.24 | 44.44 | 839 | 2.12 | 0.76 | 45.9 |
| 4/13/2015 17:29:18 | 47.57 | 44.77 | 839 | 2.12 | 0.76 | 45.9 |
| 4/13/2015 17:29:19 | 47.74 | 44.94 | 385 | 1.85 | 1.22 | 21.0 |

## KCB-294-6 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:26:22

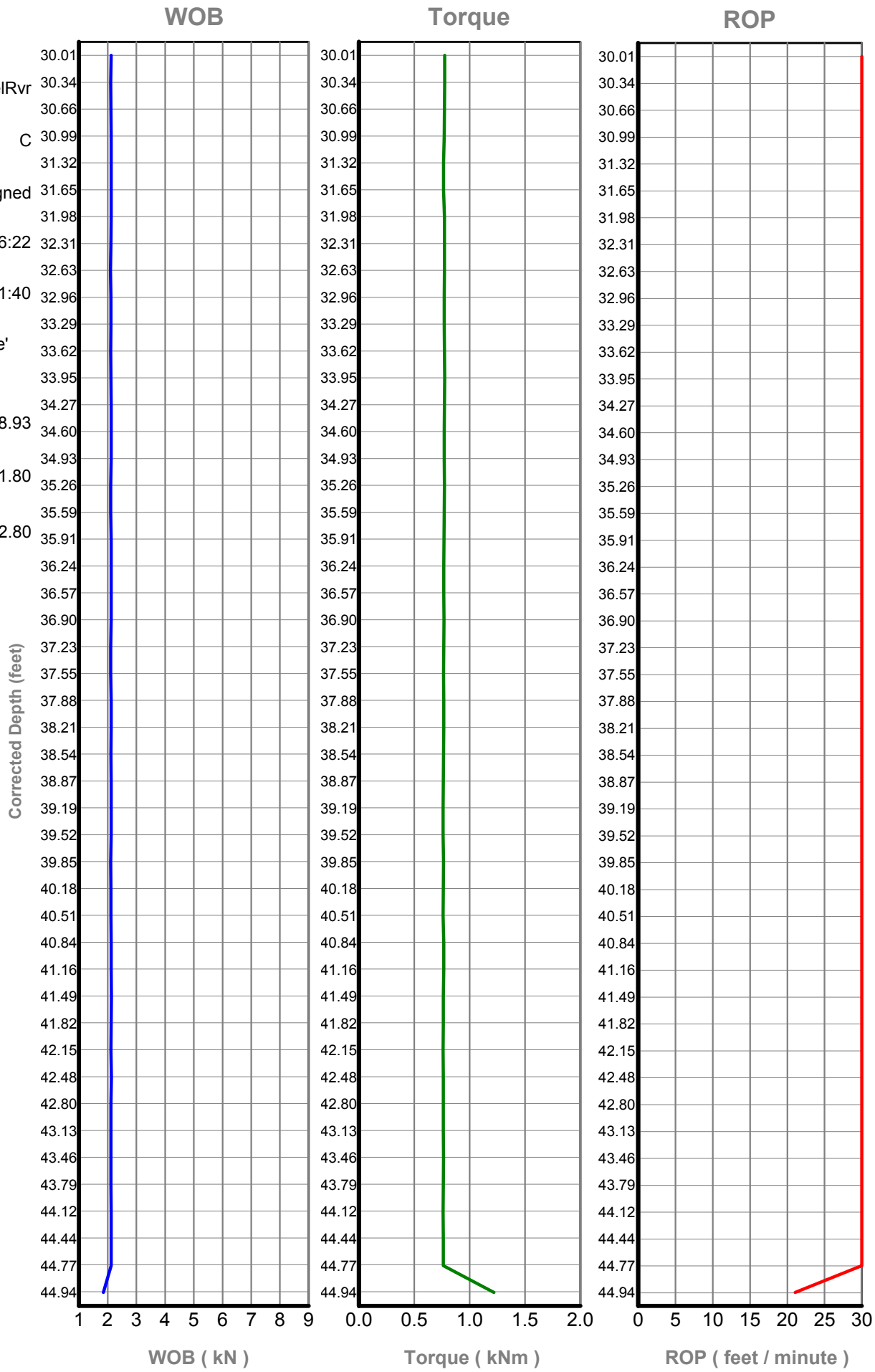
**End Date:**
4/13/2015 17:31:40

**Operator Note:**
'2.8 2`8 c Auto Complete'

**Northing:**
361,648.93

**Easting:**
244,661.80

**Tide (feet):**
2.80



## Hole: KCB-294-7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 10:23:25 | 35.43 | 30.23 | 853 | 2.12 | 0.93 | 46.6 |
| 4/14/2015 10:23:25 | 35.76 | 30.56 | 858 | 2.12 | 0.93 | 46.9 |
| 4/14/2015 10:23:26 | 36.09 | 30.89 | 850 | 2.13 | 0.93 | 46.5 |
| 4/14/2015 10:23:26 | 36.42 | 31.22 | 850 | 2.13 | 0.93 | 46.5 |
| 4/14/2015 10:23:26 | 36.75 | 31.55 | 850 | 2.12 | 0.92 | 46.5 |
| 4/14/2015 10:23:27 | 37.07 | 31.87 | 843 | 2.14 | 0.92 | 46.1 |
| 4/14/2015 10:23:27 | 37.40 | 32.20 | 845 | 2.13 | 0.93 | 46.2 |
| 4/14/2015 10:23:28 | 37.73 | 32.53 | 842 | 2.12 | 0.92 | 46.1 |
| 4/14/2015 10:23:28 | 38.06 | 32.86 | 842 | 2.12 | 0.92 | 46.1 |
| 4/14/2015 10:23:28 | 38.39 | 33.19 | 855 | 2.14 | 0.92 | 46.8 |
| 4/14/2015 10:23:29 | 38.71 | 33.51 | 845 | 2.13 | 0.92 | 46.2 |
| 4/14/2015 10:23:29 | 39.04 | 33.84 | 861 | 2.12 | 0.92 | 47.1 |
| 4/14/2015 10:23:30 | 39.37 | 34.17 | 856 | 2.12 | 0.92 | 46.8 |
| 4/14/2015 10:23:30 | 39.70 | 34.50 | 856 | 2.12 | 0.92 | 46.8 |
| 4/14/2015 10:23:30 | 40.03 | 34.83 | 858 | 2.13 | 0.92 | 46.9 |
| 4/14/2015 10:23:31 | 40.35 | 35.15 | 844 | 2.11 | 0.91 | 46.2 |
| 4/14/2015 10:23:31 | 40.68 | 35.48 | 863 | 2.12 | 0.92 | 47.2 |
| 4/14/2015 10:23:32 | 41.01 | 35.81 | 851 | 2.12 | 0.91 | 46.5 |
| 4/14/2015 10:23:32 | 41.34 | 36.14 | 854 | 2.12 | 0.91 | 46.7 |
| 4/14/2015 10:23:33 | 41.67 | 36.47 | 854 | 2.12 | 0.91 | 46.7 |
| 4/14/2015 10:23:33 | 41.99 | 36.79 | 849 | 2.13 | 0.91 | 46.4 |
| 4/14/2015 10:23:34 | 42.32 | 37.12 | 858 | 2.12 | 0.91 | 46.9 |
| 4/14/2015 10:23:34 | 42.65 | 37.45 | 847 | 2.13 | 0.91 | 46.3 |
| 4/14/2015 10:23:35 | 42.98 | 37.78 | 850 | 2.13 | 0.90 | 46.5 |
| 4/14/2015 10:23:35 | 43.31 | 38.11 | 850 | 2.13 | 0.90 | 46.5 |
| 4/14/2015 10:23:35 | 43.64 | 38.44 | 847 | 2.12 | 0.90 | 46.3 |
| 4/14/2015 10:23:36 | 43.96 | 38.76 | 847 | 2.12 | 0.90 | 46.3 |
| 4/14/2015 10:23:36 | 44.29 | 39.09 | 849 | 2.13 | 0.90 | 46.4 |
| 4/14/2015 10:23:37 | 44.62 | 39.42 | 844 | 2.12 | 0.90 | 46.2 |
| 4/14/2015 10:23:37 | 44.95 | 39.75 | 844 | 2.12 | 0.90 | 46.2 |
| 4/14/2015 10:23:37 | 45.28 | 40.08 | 836 | 2.12 | 0.90 | 45.7 |
| 4/14/2015 10:23:38 | 45.60 | 40.40 | 844 | 2.14 | 0.90 | 46.2 |
| 4/14/2015 10:23:38 | 45.93 | 40.73 | 818 | 2.14 | 0.89 | 44.7 |
| 4/14/2015 10:23:39 | 46.26 | 41.06 | 818 | 2.14 | 0.89 | 44.7 |
| 4/14/2015 10:23:39 | 46.59 | 41.39 | 825 | 2.14 | 0.89 | 45.1 |
| 4/14/2015 10:23:40 | 46.92 | 41.72 | 825 | 2.14 | 0.89 | 45.1 |
| 4/14/2015 10:23:40 | 47.24 | 42.04 | 828 | 2.12 | 0.89 | 45.3 |
| 4/14/2015 10:23:40 | 47.57 | 42.37 | 836 | 2.13 | 0.89 | 45.7 |
| 4/14/2015 10:23:41 | 47.90 | 42.70 | 828 | 2.13 | 0.89 | 45.3 |
| 4/14/2015 10:23:41 | 48.23 | 43.03 | 852 | 2.13 | 0.89 | 46.6 |
| 4/14/2015 10:23:42 | 48.56 | 43.36 | 852 | 2.13 | 0.89 | 46.6 |
| 4/14/2015 10:23:42 | 48.88 | 43.68 | 842 | 2.12 | 0.89 | 46.0 |
| 4/14/2015 10:23:42 | 49.21 | 44.01 | 844 | 2.12 | 0.90 | 46.2 |
| 4/14/2015 10:23:48 | 49.45 | 44.25 | 9 | 1.80 | 1.51 | 0.5 |

## KCB-294-7 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/14/2015 10:21:45

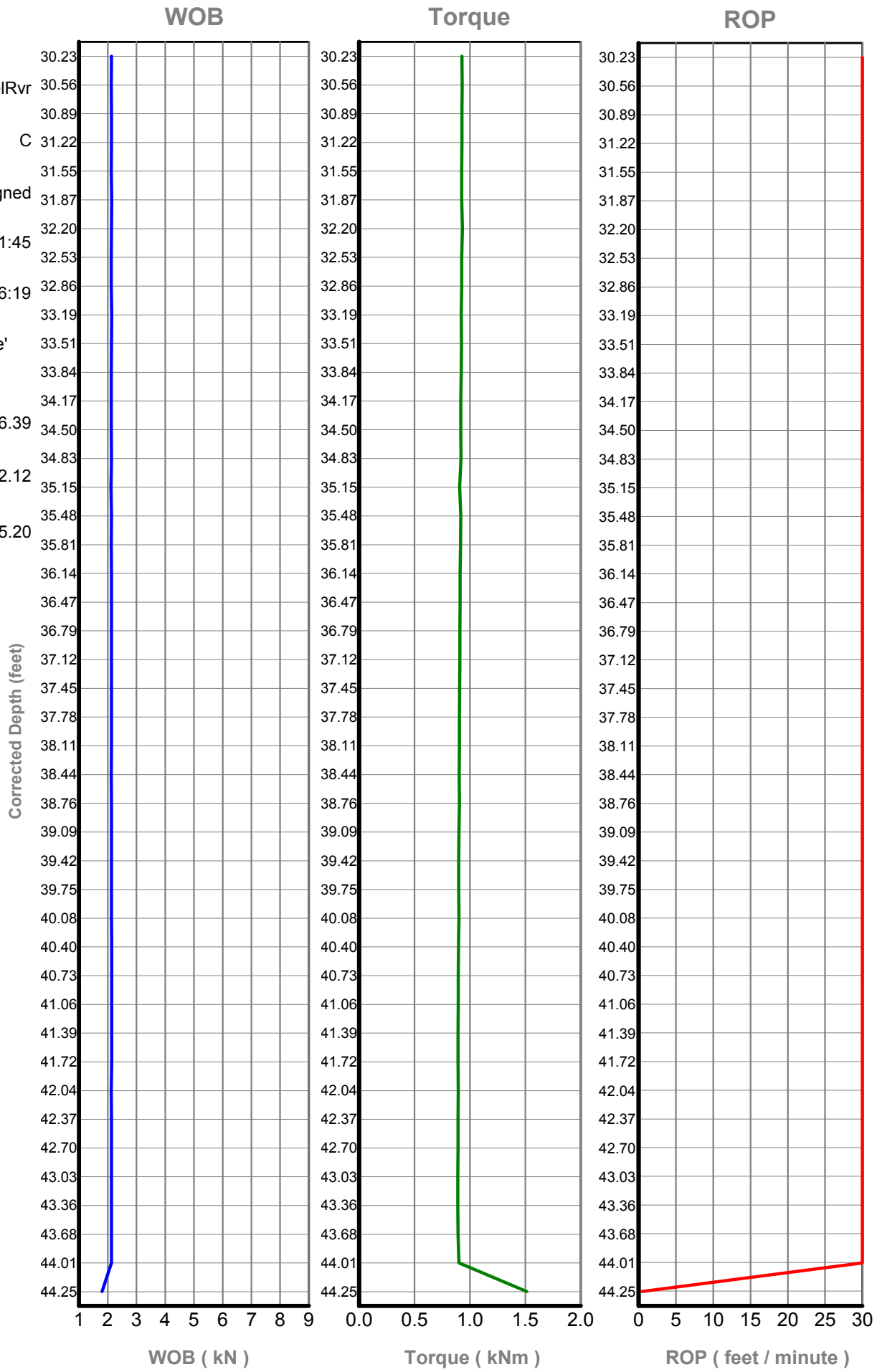
**End Date:**
4/14/2015 10:26:19

**Operator Note:**
'5.2 5.4 c Auto Complete'

**Northing:**
361,636.39

**Easting:**
244,662.12

**Tide (feet):**
5.20



## Hole: KCB-294-8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:36:25 | 33.14 | 30.04 | 867 | 2.10 | 0.74 | 47.4 |
| 4/13/2015 17:36:26 | 33.46 | 30.36 | 867 | 2.12 | 0.74 | 47.4 |
| 4/13/2015 17:36:27 | 33.79 | 30.69 | 863 | 2.11 | 0.74 | 47.2 |
| 4/13/2015 17:36:27 | 34.12 | 31.02 | 863 | 2.11 | 0.74 | 47.2 |
| 4/13/2015 17:36:27 | 34.45 | 31.35 | 851 | 2.10 | 0.74 | 46.5 |
| 4/13/2015 17:36:28 | 34.78 | 31.68 | 854 | 2.10 | 0.74 | 46.7 |
| 4/13/2015 17:36:28 | 35.11 | 32.01 | 854 | 2.12 | 0.74 | 46.7 |
| 4/13/2015 17:36:29 | 35.43 | 32.33 | 854 | 2.12 | 0.74 | 46.7 |
| 4/13/2015 17:36:29 | 35.76 | 32.66 | 857 | 2.11 | 0.75 | 46.8 |
| 4/13/2015 17:36:29 | 36.09 | 32.99 | 855 | 2.12 | 0.75 | 46.8 |
| 4/13/2015 17:36:30 | 36.42 | 33.32 | 855 | 2.10 | 0.75 | 46.8 |
| 4/13/2015 17:36:30 | 36.75 | 33.65 | 860 | 2.12 | 0.75 | 47.0 |
| 4/13/2015 17:36:31 | 37.07 | 33.97 | 860 | 2.12 | 0.75 | 47.0 |
| 4/13/2015 17:36:31 | 37.40 | 34.30 | 858 | 2.10 | 0.74 | 46.9 |
| 4/13/2015 17:36:31 | 37.73 | 34.63 | 858 | 2.11 | 0.75 | 46.9 |
| 4/13/2015 17:36:32 | 38.06 | 34.96 | 871 | 2.10 | 0.75 | 47.6 |
| 4/13/2015 17:36:32 | 38.39 | 35.29 | 852 | 2.10 | 0.67 | 46.6 |
| 4/13/2015 17:36:33 | 38.71 | 35.61 | 852 | 2.10 | 0.67 | 46.6 |
| 4/13/2015 17:36:33 | 39.04 | 35.94 | 889 | 2.11 | 0.75 | 48.6 |
| 4/13/2015 17:36:33 | 39.37 | 36.27 | 860 | 2.10 | 0.75 | 47.0 |
| 4/13/2015 17:36:34 | 39.70 | 36.60 | 860 | 2.11 | 0.75 | 47.0 |
| 4/13/2015 17:36:34 | 40.03 | 36.93 | 860 | 2.11 | 0.75 | 47.0 |
| 4/13/2015 17:36:34 | 40.35 | 37.25 | 878 | 2.11 | 0.75 | 48.0 |
| 4/13/2015 17:36:35 | 40.68 | 37.58 | 878 | 2.10 | 0.74 | 48.0 |
| 4/13/2015 17:36:35 | 41.01 | 37.91 | 871 | 2.12 | 0.75 | 47.6 |
| 4/13/2015 17:36:36 | 41.34 | 38.24 | 878 | 2.12 | 0.75 | 48.0 |
| 4/13/2015 17:36:37 | 41.67 | 38.57 | 878 | 2.12 | 0.75 | 48.0 |
| 4/13/2015 17:36:36 | 41.99 | 38.89 | 853 | 2.10 | 0.75 | 46.6 |
| 4/13/2015 17:36:37 | 42.32 | 39.22 | 872 | 2.10 | 0.74 | 47.7 |
| 4/13/2015 17:36:38 | 42.65 | 39.55 | 872 | 2.10 | 0.75 | 47.7 |
| 4/13/2015 17:36:38 | 42.98 | 39.88 | 866 | 2.12 | 0.75 | 47.4 |
| 4/13/2015 17:36:39 | 43.31 | 40.21 | 866 | 2.12 | 0.75 | 47.4 |
| 4/13/2015 17:36:39 | 43.64 | 40.54 | 866 | 2.10 | 0.75 | 47.4 |
| 4/13/2015 17:36:39 | 43.96 | 40.86 | 870 | 2.11 | 0.75 | 47.6 |
| 4/13/2015 17:36:40 | 44.29 | 41.19 | 873 | 2.11 | 0.74 | 47.7 |
| 4/13/2015 17:36:40 | 44.62 | 41.52 | 873 | 2.11 | 0.74 | 47.7 |
| 4/13/2015 17:36:40 | 44.95 | 41.85 | 887 | 2.12 | 0.74 | 48.5 |
| 4/13/2015 17:36:41 | 45.28 | 42.18 | 857 | 2.16 | 0.75 | 46.9 |
| 4/13/2015 17:36:41 | 45.60 | 42.50 | 857 | 2.11 | 0.74 | 46.9 |
| 4/13/2015 17:36:42 | 45.93 | 42.83 | 877 | 2.10 | 0.75 | 48.0 |
| 4/13/2015 17:36:42 | 46.26 | 43.16 | 877 | 2.10 | 0.75 | 48.0 |
| 4/13/2015 17:36:42 | 46.59 | 43.49 | 841 | 2.12 | 0.74 | 46.0 |
| 4/13/2015 17:36:43 | 46.92 | 43.82 | 841 | 2.11 | 0.75 | 46.0 |
| 4/13/2015 17:36:43 | 47.24 | 44.14 | 841 | 2.11 | 0.75 | 46.0 |
| 4/13/2015 17:36:44 | 47.57 | 44.47 | 834 | 2.13 | 0.90 | 45.6 |
| 4/13/2015 17:36:44 | 47.90 | 44.80 | 834 | 2.34 | 1.10 | 45.6 |
| 4/13/2015 17:36:47 | 48.11 | 45.01 | 469 | 1.89 | 0.94 | 25.7 |

## KCB-294-8 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:34:03

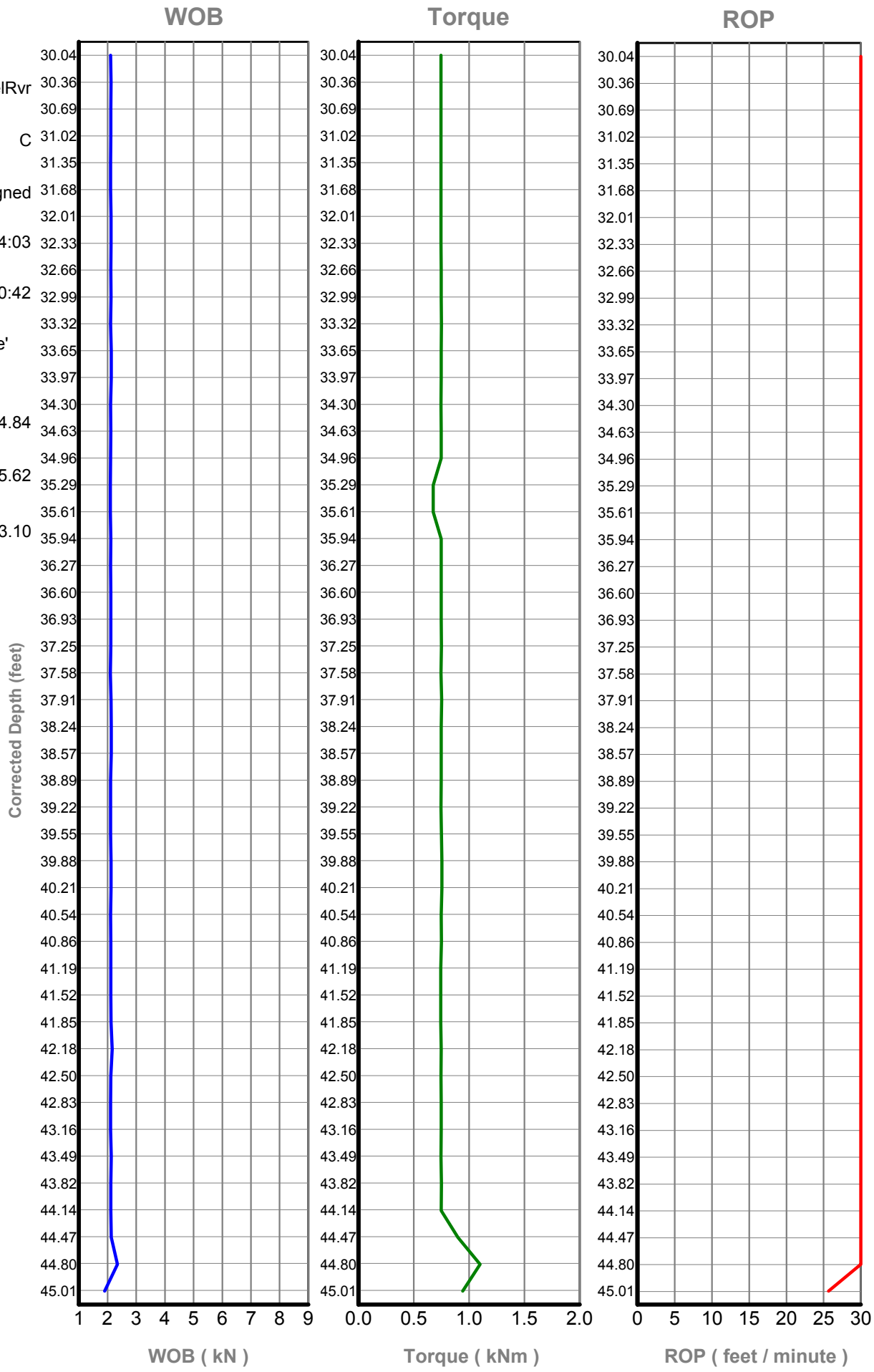
**End Date:**
4/13/2015 17:40:42

**Operator Note:**
'3.1 3`0 c Auto Complete'

**Northing:**
361,644.84

**Easting:**
244,665.62

**Tide (feet):**
3.10



## Hole: KCB-294-9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 17:47:31 | 33.46 | 30.06 | 841 | 2.12 | 0.73 | 46.0 |
| 4/13/2015 17:47:31 | 33.79 | 30.39 | 844 | 2.11 | 0.74 | 46.2 |
| 4/13/2015 17:47:32 | 34.12 | 30.72 | 841 | 2.12 | 0.73 | 46.0 |
| 4/13/2015 17:47:32 | 34.45 | 31.05 | 841 | 2.12 | 0.73 | 46.0 |
| 4/13/2015 17:47:32 | 34.78 | 31.38 | 847 | 2.12 | 0.73 | 46.3 |
| 4/13/2015 17:47:33 | 35.11 | 31.71 | 844 | 2.12 | 0.74 | 46.2 |
| 4/13/2015 17:47:34 | 35.43 | 32.03 | 844 | 2.11 | 0.73 | 46.2 |
| 4/13/2015 17:47:34 | 35.76 | 32.36 | 836 | 2.12 | 0.73 | 45.7 |
| 4/13/2015 17:47:35 | 36.09 | 32.69 | 844 | 2.12 | 0.81 | 46.2 |
| 4/13/2015 17:47:35 | 36.42 | 33.02 | 844 | 2.12 | 0.81 | 46.2 |
| 4/13/2015 17:47:35 | 36.75 | 33.35 | 838 | 2.12 | 0.73 | 45.8 |
| 4/13/2015 17:47:36 | 37.07 | 33.67 | 835 | 2.12 | 0.73 | 45.7 |
| 4/13/2015 17:47:36 | 37.40 | 34.00 | 835 | 2.11 | 0.73 | 45.7 |
| 4/13/2015 17:47:37 | 37.73 | 34.33 | 838 | 2.12 | 0.73 | 45.8 |
| 4/13/2015 17:47:37 | 38.06 | 34.66 | 838 | 2.12 | 0.73 | 45.8 |
| 4/13/2015 17:47:37 | 38.39 | 34.99 | 838 | 2.12 | 0.73 | 45.8 |
| 4/13/2015 17:47:38 | 38.71 | 35.31 | 841 | 2.12 | 0.73 | 46.0 |
| 4/13/2015 17:47:38 | 39.04 | 35.64 | 842 | 2.12 | 0.73 | 46.1 |
| 4/13/2015 17:47:39 | 39.37 | 35.97 | 847 | 2.12 | 0.73 | 46.3 |
| 4/13/2015 17:47:39 | 39.70 | 36.30 | 844 | 2.11 | 0.73 | 46.2 |
| 4/13/2015 17:47:40 | 40.03 | 36.63 | 844 | 2.11 | 0.73 | 46.2 |
| 4/13/2015 17:47:40 | 40.35 | 36.95 | 841 | 2.12 | 0.73 | 46.0 |
| 4/13/2015 17:47:40 | 40.68 | 37.28 | 841 | 2.11 | 0.73 | 46.0 |
| 4/13/2015 17:47:41 | 41.01 | 37.61 | 844 | 2.10 | 0.73 | 46.2 |
| 4/13/2015 17:47:41 | 41.34 | 37.94 | 844 | 2.10 | 0.73 | 46.2 |
| 4/13/2015 17:47:42 | 41.67 | 38.27 | 844 | 2.10 | 0.73 | 46.2 |
| 4/13/2015 17:47:42 | 41.99 | 38.59 | 841 | 2.11 | 0.73 | 46.0 |
| 4/13/2015 17:47:42 | 42.32 | 38.92 | 841 | 2.11 | 0.73 | 46.0 |
| 4/13/2015 17:47:43 | 42.65 | 39.25 | 844 | 2.12 | 0.73 | 46.2 |
| 4/13/2015 17:47:43 | 42.98 | 39.58 | 843 | 2.12 | 0.73 | 46.1 |
| 4/13/2015 17:47:44 | 43.31 | 39.91 | 838 | 2.11 | 0.73 | 45.8 |
| 4/13/2015 17:47:45 | 43.64 | 40.24 | 838 | 2.11 | 0.73 | 45.8 |
| 4/13/2015 17:47:45 | 43.96 | 40.56 | 841 | 2.12 | 0.72 | 46.0 |
| 4/13/2015 17:47:45 | 44.29 | 40.89 | 836 | 2.12 | 0.73 | 45.7 |
| 4/13/2015 17:47:46 | 44.62 | 41.22 | 835 | 2.10 | 0.73 | 45.7 |
| 4/13/2015 17:47:46 | 44.95 | 41.55 | 829 | 2.12 | 0.73 | 45.4 |
| 4/13/2015 17:47:47 | 45.28 | 41.88 | 824 | 2.13 | 0.72 | 45.0 |
| 4/13/2015 17:47:47 | 45.60 | 42.20 | 824 | 2.13 | 0.72 | 45.0 |
| 4/13/2015 17:47:47 | 45.93 | 42.53 | 812 | 2.17 | 0.73 | 44.4 |
| 4/13/2015 17:47:48 | 46.26 | 42.86 | 703 | 2.28 | 0.73 | 38.4 |
| 4/13/2015 17:47:49 | 46.59 | 43.19 | 624 | 2.27 | 0.73 | 34.1 |
| 4/13/2015 17:47:50 | 46.92 | 43.52 | 489 | 2.27 | 0.73 | 26.8 |
| 4/13/2015 17:47:51 | 47.24 | 43.84 | 442 | 2.27 | 0.73 | 24.2 |
| 4/13/2015 17:47:51 | 47.57 | 44.17 | 448 | 2.27 | 0.74 | 24.5 |
| 4/13/2015 17:48:06 | 47.90 | 44.50 | 0 | 1.97 | 0.74 | 0.0 |
| 4/13/2015 17:48:08 | 48.11 | 44.71 | 87 | 2.30 | 0.78 | 4.8 |

## KCB-294-9 - Summary

**Pattern Number:**
AreaK_CB294-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 17:44:29

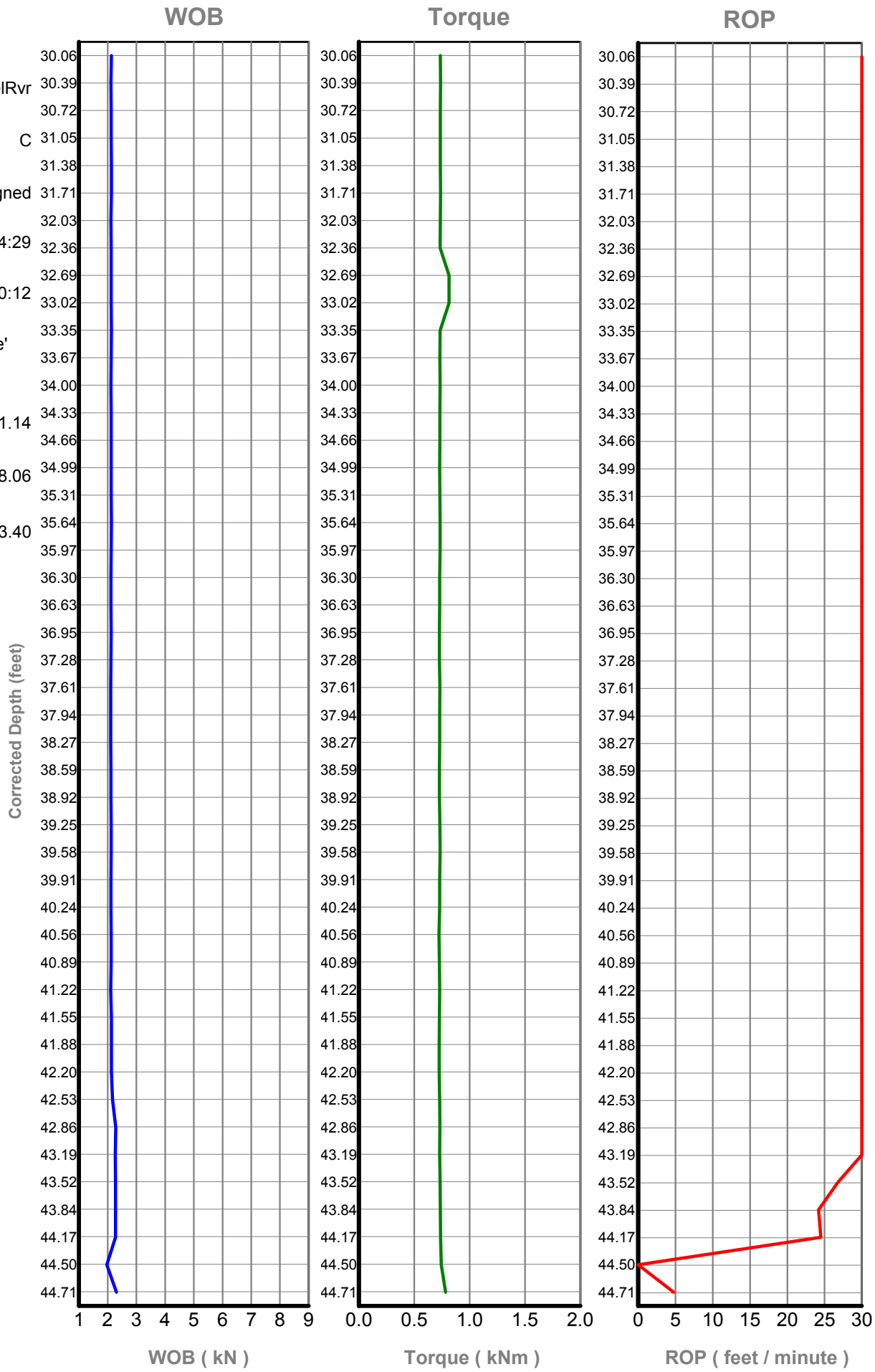
**End Date:**
4/13/2015 17:50:12

**Operator Note:**
'3.4 3.3 c Auto Complete'

**Northing:**
361,641.14

**Easting:**
244,668.06

**Tide (feet):**
3.40



## Hole: KCB-324-1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:24:23 | 30.51 | 30.21 | 890 | 2.12 | 0.25 | 48.7 |
| 4/13/2015 15:24:24 | 30.84 | 30.54 | 882 | 2.12 | 0.25 | 48.2 |
| 4/13/2015 15:24:25 | 31.17 | 30.87 | 874 | 2.10 | 0.25 | 47.8 |
| 4/13/2015 15:24:25 | 31.50 | 31.20 | 874 | 2.10 | 0.25 | 47.8 |
| 4/13/2015 15:24:25 | 31.82 | 31.52 | 876 | 2.12 | 0.25 | 47.9 |
| 4/13/2015 15:24:26 | 32.15 | 31.85 | 876 | 2.10 | 0.25 | 47.9 |
| 4/13/2015 15:24:26 | 32.48 | 32.18 | 870 | 2.14 | 0.25 | 47.6 |
| 4/13/2015 15:24:27 | 32.81 | 32.51 | 870 | 2.12 | 0.25 | 47.6 |
| 4/13/2015 15:24:27 | 33.14 | 32.84 | 870 | 2.12 | 0.25 | 47.6 |
| 4/13/2015 15:24:27 | 33.46 | 33.16 | 865 | 2.13 | 0.26 | 47.3 |
| 4/13/2015 15:24:28 | 33.79 | 33.49 | 874 | 2.11 | 0.25 | 47.8 |
| 4/13/2015 15:24:28 | 34.12 | 33.82 | 871 | 2.11 | 0.25 | 47.6 |
| 4/13/2015 15:24:29 | 34.45 | 34.15 | 871 | 2.12 | 0.25 | 47.6 |
| 4/13/2015 15:24:29 | 34.78 | 34.48 | 871 | 2.12 | 0.25 | 47.6 |
| 4/13/2015 15:24:29 | 35.11 | 34.81 | 871 | 2.11 | 0.26 | 47.6 |
| 4/13/2015 15:24:30 | 35.43 | 35.13 | 876 | 2.10 | 0.25 | 47.9 |
| 4/13/2015 15:24:30 | 35.76 | 35.46 | 870 | 2.11 | 0.83 | 47.6 |
| 4/13/2015 15:24:31 | 36.09 | 35.79 | 867 | 2.11 | 0.88 | 47.4 |
| 4/13/2015 15:24:31 | 36.42 | 36.12 | 867 | 2.11 | 0.88 | 47.4 |
| 4/13/2015 15:24:31 | 36.75 | 36.45 | 860 | 2.12 | 0.90 | 47.0 |
| 4/13/2015 15:24:32 | 37.07 | 36.77 | 868 | 2.12 | 0.91 | 47.4 |
| 4/13/2015 15:24:32 | 37.40 | 37.10 | 870 | 2.12 | 0.90 | 47.6 |
| 4/13/2015 15:24:33 | 37.73 | 37.43 | 870 | 2.12 | 0.90 | 47.6 |
| 4/13/2015 15:24:33 | 38.06 | 37.76 | 867 | 2.12 | 0.90 | 47.4 |
| 4/13/2015 15:24:33 | 38.39 | 38.09 | 873 | 2.10 | 0.90 | 47.7 |
| 4/13/2015 15:24:34 | 38.71 | 38.41 | 881 | 2.11 | 0.90 | 48.2 |
| 4/13/2015 15:24:35 | 39.04 | 38.74 | 873 | 2.12 | 0.90 | 47.7 |
| 4/13/2015 15:24:35 | 39.37 | 39.07 | 873 | 2.12 | 0.90 | 47.7 |
| 4/13/2015 15:24:35 | 39.70 | 39.40 | 870 | 2.11 | 0.91 | 47.6 |
| 4/13/2015 15:24:36 | 40.03 | 39.73 | 868 | 2.11 | 0.90 | 47.5 |
| 4/13/2015 15:24:36 | 40.35 | 40.05 | 873 | 2.12 | 0.90 | 47.7 |
| 4/13/2015 15:24:37 | 40.68 | 40.38 | 868 | 2.11 | 0.90 | 47.5 |
| 4/13/2015 15:24:37 | 41.01 | 40.71 | 868 | 2.11 | 0.90 | 47.5 |
| 4/13/2015 15:24:37 | 41.34 | 41.04 | 870 | 2.10 | 0.91 | 47.6 |
| 4/13/2015 15:24:38 | 41.67 | 41.37 | 873 | 2.13 | 0.90 | 47.7 |
| 4/13/2015 15:24:38 | 41.99 | 41.69 | 873 | 2.11 | 0.91 | 47.7 |
| 4/13/2015 15:24:39 | 42.32 | 42.02 | 873 | 2.11 | 0.91 | 47.7 |
| 4/13/2015 15:24:39 | 42.65 | 42.35 | 867 | 2.10 | 0.90 | 47.4 |
| 4/13/2015 15:24:39 | 42.98 | 42.68 | 872 | 2.12 | 0.89 | 47.7 |
| 4/13/2015 15:24:40 | 43.31 | 43.01 | 870 | 2.10 | 0.89 | 47.6 |
| 4/13/2015 15:24:40 | 43.64 | 43.34 | 870 | 2.12 | 0.90 | 47.6 |
| 4/13/2015 15:24:41 | 43.96 | 43.66 | 870 | 2.12 | 0.90 | 47.6 |
| 4/13/2015 15:24:41 | 44.29 | 43.99 | 864 | 2.12 | 0.89 | 47.3 |
| 4/13/2015 15:24:41 | 44.62 | 44.32 | 864 | 2.12 | 0.89 | 47.3 |
| 4/13/2015 15:24:42 | 44.95 | 44.65 | 854 | 2.11 | 0.88 | 46.7 |
| 4/13/2015 15:24:42 | 45.28 | 44.98 | 859 | 2.10 | 0.89 | 47.0 |
| 4/13/2015 15:24:43 | 45.60 | 45.30 | 859 | 2.10 | 0.89 | 47.0 |
| 4/13/2015 15:24:43 | 45.93 | 45.63 | 856 | 2.14 | 0.88 | 46.8 |
| 4/13/2015 15:24:43 | 46.26 | 45.96 | 858 | 2.11 | 0.88 | 46.9 |
| 4/13/2015 15:24:44 | 46.59 | 46.29 | 856 | 2.11 | 0.88 | 46.8 |
| 4/13/2015 15:24:45 | 46.92 | 46.62 | 861 | 2.14 | 0.88 | 47.1 |
| 4/13/2015 15:24:45 | 47.24 | 46.94 | 861 | 2.14 | 0.88 | 47.1 |
| 4/13/2015 15:24:53 | 47.57 | 47.27 | 46 | 2.26 | 1.26 | 2.5 |
| 4/13/2015 15:25:01 | 47.90 | 47.60 | 0 | 2.15 | 0.98 | 0.0 |
| 4/13/2015 15:25:02 | 48.23 | 47.93 | 166 | 2.17 | 1.11 | 9.1 |
| 4/13/2015 15:25:02 | 48.56 | 48.26 | 307 | 2.21 | 1.24 | 16.8 |
| 4/13/2015 15:25:03 | 48.88 | 48.58 | 495 | 2.24 | 1.23 | 27.1 |
| 4/13/2015 15:25:06 | 49.16 | 48.86 | 129 | 2.34 | 1.07 | 7.1 |

## KCB-324-1 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 15:19:18

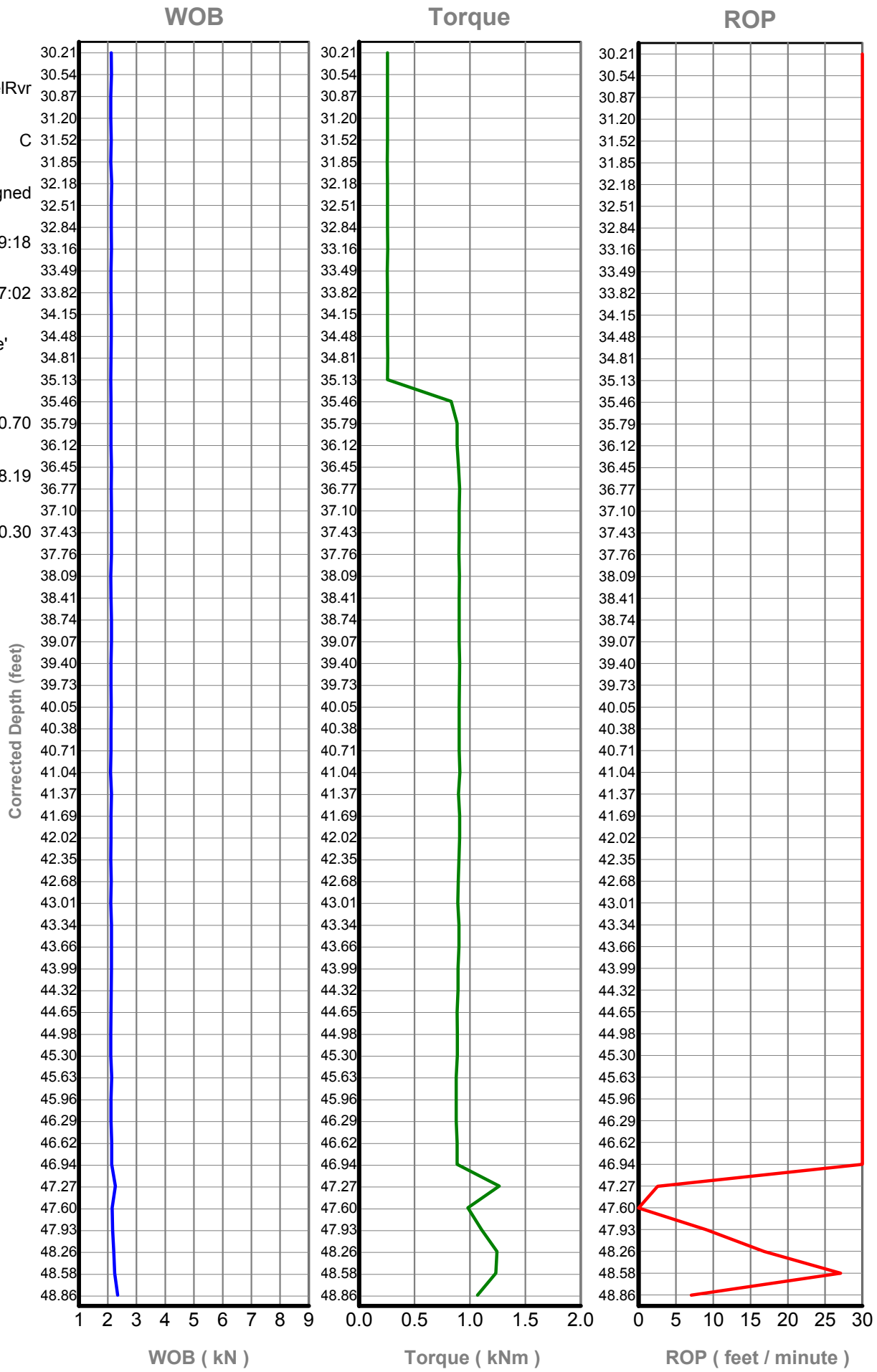
**End Date:**
4/13/2015 15:27:02

**Operator Note:**
'0.3 0.4 c Auto Complete'

**Northing:**
361,620.70

**Easting:**
244,458.19

**Tide (feet):**
0.30



## Hole: KCB-324-10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 13:10:30 | 31.82 | 30.02 | 862 | 2.14 | 0.86 | 47.1 |
| 4/13/2015 13:10:30 | 32.15 | 30.35 | 862 | 2.14 | 0.86 | 47.1 |
| 4/13/2015 13:10:31 | 32.48 | 30.68 | 862 | 2.14 | 0.86 | 47.1 |
| 4/13/2015 13:10:31 | 32.81 | 31.01 | 889 | 2.14 | 0.86 | 48.6 |
| 4/13/2015 13:10:32 | 33.14 | 31.34 | 878 | 2.14 | 0.85 | 48.0 |
| 4/13/2015 13:10:32 | 33.46 | 31.66 | 883 | 2.14 | 0.85 | 48.3 |
| 4/13/2015 13:10:33 | 33.79 | 31.99 | 883 | 2.14 | 0.85 | 48.3 |
| 4/13/2015 13:10:33 | 34.12 | 32.32 | 872 | 2.14 | 0.85 | 47.7 |
| 4/13/2015 13:10:33 | 34.45 | 32.65 | 892 | 2.15 | 0.84 | 48.8 |
| 4/13/2015 13:10:34 | 34.78 | 32.98 | 884 | 2.14 | 0.84 | 48.4 |
| 4/13/2015 13:10:34 | 35.11 | 33.31 | 884 | 2.14 | 0.84 | 48.3 |
| 4/13/2015 13:10:35 | 35.43 | 33.63 | 884 | 2.14 | 0.84 | 48.3 |
| 4/13/2015 13:10:35 | 35.76 | 33.96 | 881 | 2.14 | 0.84 | 48.2 |
| 4/13/2015 13:10:35 | 36.09 | 34.29 | 881 | 2.15 | 0.83 | 48.2 |
| 4/13/2015 13:10:36 | 36.42 | 34.62 | 884 | 2.14 | 0.83 | 48.3 |
| 4/13/2015 13:10:36 | 36.75 | 34.95 | 884 | 2.14 | 0.83 | 48.3 |
| 4/13/2015 13:10:36 | 37.07 | 35.27 | 879 | 2.19 | 0.82 | 48.1 |
| 4/13/2015 13:10:37 | 37.40 | 35.60 | 882 | 2.15 | 0.82 | 48.2 |
| 4/13/2015 13:10:37 | 37.73 | 35.93 | 890 | 2.14 | 0.82 | 48.7 |
| 4/13/2015 13:10:38 | 38.06 | 36.26 | 890 | 2.14 | 0.82 | 48.7 |
| 4/13/2015 13:10:38 | 38.39 | 36.59 | 890 | 2.14 | 0.82 | 48.7 |
| 4/13/2015 13:10:38 | 38.71 | 36.91 | 887 | 2.14 | 0.82 | 48.5 |
| 4/13/2015 13:10:39 | 39.04 | 37.24 | 887 | 2.14 | 0.82 | 48.5 |
| 4/13/2015 13:10:39 | 39.37 | 37.57 | 887 | 2.15 | 0.82 | 48.5 |
| 4/13/2015 13:10:40 | 39.70 | 37.90 | 887 | 2.15 | 0.82 | 48.5 |
| 4/13/2015 13:10:40 | 40.03 | 38.23 | 885 | 2.14 | 0.82 | 48.4 |
| 4/13/2015 13:10:40 | 40.35 | 38.55 | 866 | 2.14 | 0.81 | 47.4 |
| 4/13/2015 13:10:41 | 40.68 | 38.88 | 866 | 2.15 | 0.81 | 47.4 |
| 4/13/2015 13:10:42 | 41.01 | 39.21 | 866 | 2.15 | 0.81 | 47.4 |
| 4/13/2015 13:10:42 | 41.34 | 39.54 | 878 | 2.14 | 0.81 | 48.0 |
| 4/13/2015 13:10:42 | 41.67 | 39.87 | 878 | 2.14 | 0.81 | 48.0 |
| 4/13/2015 13:10:43 | 41.99 | 40.19 | 858 | 2.14 | 0.81 | 46.9 |
| 4/13/2015 13:10:43 | 42.32 | 40.52 | 858 | 2.15 | 0.81 | 46.9 |
| 4/13/2015 13:10:44 | 42.65 | 40.85 | 858 | 2.15 | 0.81 | 46.9 |
| 4/13/2015 13:10:44 | 42.98 | 41.18 | 865 | 2.17 | 0.81 | 47.3 |
| 4/13/2015 13:10:44 | 43.31 | 41.51 | 879 | 2.15 | 0.81 | 48.0 |
| 4/13/2015 13:10:45 | 43.64 | 41.84 | 864 | 2.15 | 0.80 | 47.3 |
| 4/13/2015 13:10:45 | 43.96 | 42.16 | 855 | 2.15 | 0.80 | 46.7 |
| 4/13/2015 13:10:46 | 44.29 | 42.49 | 855 | 2.15 | 0.80 | 46.7 |
| 4/13/2015 13:10:46 | 44.62 | 42.82 | 855 | 2.14 | 0.80 | 46.7 |
| 4/13/2015 13:10:46 | 44.95 | 43.15 | 879 | 2.14 | 0.82 | 48.1 |
| 4/13/2015 13:10:47 | 45.28 | 43.48 | 856 | 2.16 | 0.81 | 46.8 |
| 4/13/2015 13:10:47 | 45.60 | 43.80 | 856 | 2.16 | 0.81 | 46.8 |
| 4/13/2015 13:10:47 | 45.93 | 44.13 | 872 | 2.14 | 0.80 | 47.7 |
| 4/13/2015 13:10:59 | 46.26 | 44.46 | 0 | 2.17 | 1.14 | 0.0 |
| 4/13/2015 13:11:39 | 46.59 | 44.79 | 3 | 2.31 | 1.07 | 0.2 |
| 4/13/2015 13:11:39 | 46.74 | 44.94 | 79 | 2.22 | 1.19 | 4.3 |

## KCB-324-10 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 13:07:42

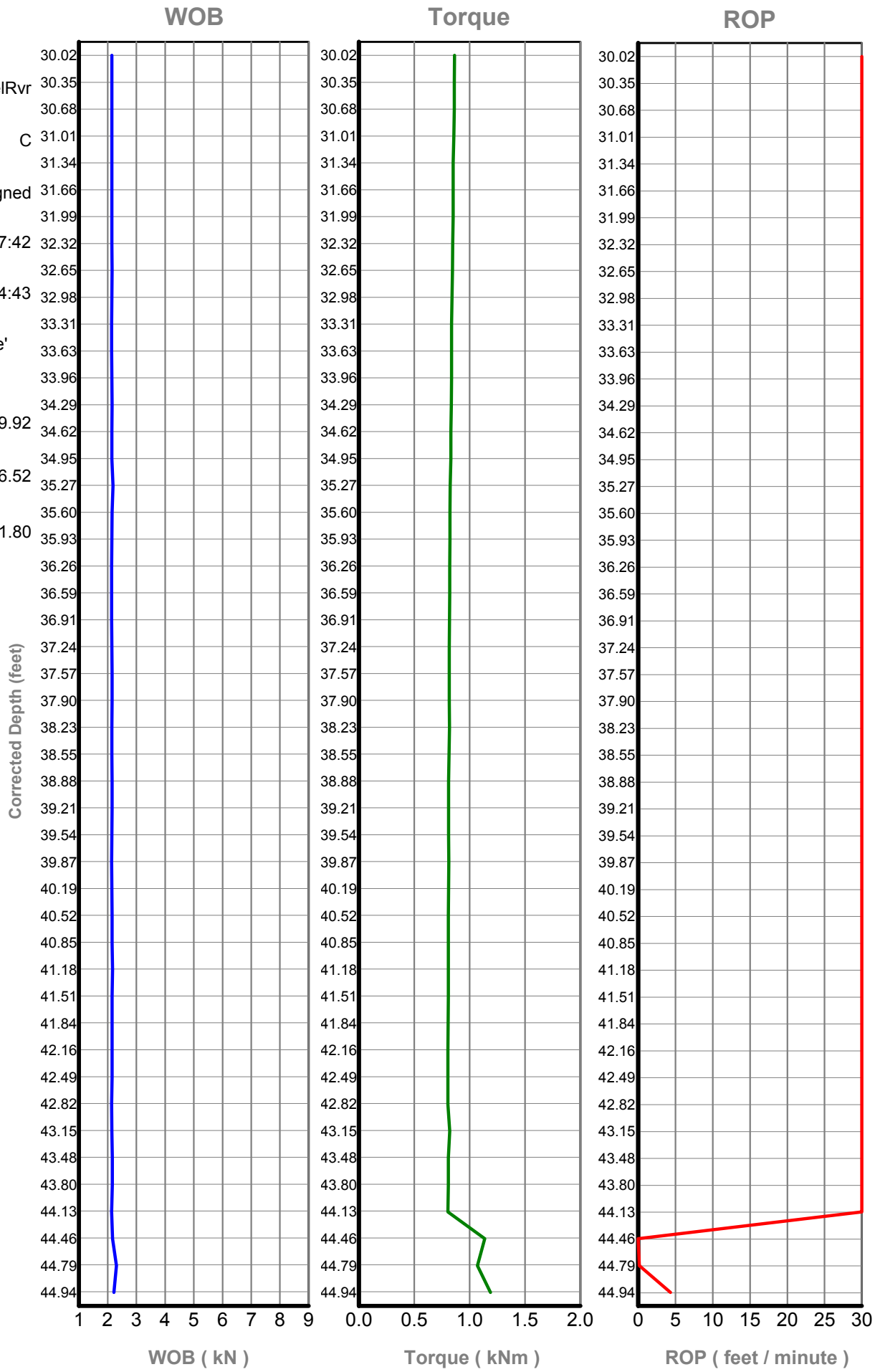
**End Date:**
4/13/2015 13:14:43

**Operator Note:**
'1.8 1.7 c Auto Complete'

**Northing:**
361,629.92

**Easting:**
244,476.52

**Tide (feet):**
1.80



## Hole: KCB-324-11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:52:54 | 30.84 | 30.24 | 890 | 2.12 | 0.65 | 48.7 |
| 4/13/2015 15:52:55 | 31.17 | 30.57 | 850 | 2.12 | 0.73 | 46.5 |
| 4/13/2015 15:52:55 | 31.50 | 30.90 | 850 | 2.11 | 0.73 | 46.5 |
| 4/13/2015 15:52:56 | 31.82 | 31.22 | 850 | 2.11 | 0.73 | 46.5 |
| 4/13/2015 15:52:56 | 32.15 | 31.55 | 861 | 2.10 | 0.73 | 47.1 |
| 4/13/2015 15:52:56 | 32.48 | 31.88 | 858 | 2.10 | 0.73 | 46.9 |
| 4/13/2015 15:52:57 | 32.81 | 32.21 | 849 | 2.12 | 0.73 | 46.4 |
| 4/13/2015 15:52:57 | 33.14 | 32.54 | 849 | 2.11 | 0.72 | 46.4 |
| 4/13/2015 15:52:58 | 33.46 | 32.86 | 849 | 2.11 | 0.72 | 46.4 |
| 4/13/2015 15:52:58 | 33.79 | 33.19 | 875 | 2.11 | 0.72 | 47.9 |
| 4/13/2015 15:52:58 | 34.12 | 33.52 | 859 | 2.12 | 0.72 | 47.0 |
| 4/13/2015 15:52:59 | 34.45 | 33.85 | 856 | 2.11 | 0.72 | 46.8 |
| 4/13/2015 15:52:59 | 34.78 | 34.18 | 856 | 2.11 | 0.72 | 46.8 |
| 4/13/2015 15:52:59 | 35.11 | 34.51 | 864 | 2.12 | 0.72 | 47.3 |
| 4/13/2015 15:53:00 | 35.43 | 34.83 | 864 | 2.11 | 0.72 | 47.3 |
| 4/13/2015 15:53:00 | 35.76 | 35.16 | 861 | 2.12 | 0.71 | 47.1 |
| 4/13/2015 15:53:01 | 36.09 | 35.49 | 861 | 2.12 | 0.71 | 47.1 |
| 4/13/2015 15:53:02 | 36.42 | 35.82 | 861 | 2.12 | 0.71 | 47.1 |
| 4/13/2015 15:53:01 | 36.75 | 36.15 | 859 | 2.09 | 0.71 | 46.9 |
| 4/13/2015 15:53:02 | 37.07 | 36.47 | 856 | 2.10 | 0.71 | 46.8 |
| 4/13/2015 15:53:03 | 37.40 | 36.80 | 856 | 2.10 | 0.71 | 46.8 |
| 4/13/2015 15:53:03 | 37.73 | 37.13 | 850 | 2.10 | 0.71 | 46.5 |
| 4/13/2015 15:53:04 | 38.06 | 37.46 | 850 | 2.10 | 0.71 | 46.5 |
| 4/13/2015 15:53:04 | 38.39 | 37.79 | 861 | 2.11 | 0.71 | 47.1 |
| 4/13/2015 15:53:04 | 38.71 | 38.11 | 864 | 2.12 | 0.70 | 47.3 |
| 4/13/2015 15:53:05 | 39.04 | 38.44 | 864 | 2.10 | 0.71 | 47.3 |
| 4/13/2015 15:53:05 | 39.37 | 38.77 | 857 | 2.11 | 0.71 | 46.9 |
| 4/13/2015 15:53:06 | 39.70 | 39.10 | 857 | 2.11 | 0.71 | 46.9 |
| 4/13/2015 15:53:06 | 40.03 | 39.43 | 870 | 2.12 | 0.71 | 47.6 |
| 4/13/2015 15:53:06 | 40.35 | 39.75 | 859 | 2.11 | 0.70 | 47.0 |
| 4/13/2015 15:53:07 | 40.68 | 40.08 | 859 | 2.11 | 0.70 | 47.0 |
| 4/13/2015 15:53:07 | 41.01 | 40.41 | 854 | 2.11 | 0.70 | 46.7 |
| 4/13/2015 15:53:08 | 41.34 | 40.74 | 854 | 2.11 | 0.70 | 46.7 |
| 4/13/2015 15:53:08 | 41.67 | 41.07 | 867 | 2.11 | 0.70 | 47.4 |
| 4/13/2015 15:53:08 | 41.99 | 41.39 | 862 | 2.10 | 0.71 | 47.1 |
| 4/13/2015 15:53:09 | 42.32 | 41.72 | 862 | 2.11 | 0.70 | 47.1 |
| 4/13/2015 15:53:09 | 42.65 | 42.05 | 859 | 2.12 | 0.70 | 47.0 |
| 4/13/2015 15:53:10 | 42.98 | 42.38 | 859 | 2.12 | 0.70 | 47.0 |
| 4/13/2015 15:53:10 | 43.31 | 42.71 | 866 | 2.12 | 0.70 | 47.4 |
| 4/13/2015 15:53:10 | 43.64 | 43.04 | 859 | 2.11 | 0.70 | 47.0 |
| 4/13/2015 15:53:11 | 43.96 | 43.36 | 850 | 2.12 | 0.70 | 46.5 |
| 4/13/2015 15:53:11 | 44.29 | 43.69 | 856 | 2.13 | 0.70 | 46.8 |
| 4/13/2015 15:53:12 | 44.62 | 44.02 | 856 | 2.13 | 0.70 | 46.8 |
| 4/13/2015 15:53:12 | 44.95 | 44.35 | 859 | 2.11 | 0.70 | 46.9 |
| 4/13/2015 15:53:13 | 45.28 | 44.68 | 856 | 2.21 | 1.30 | 46.8 |
| 4/13/2015 15:53:15 | 45.60 | 45.00 | 157 | 2.10 | 0.76 | 8.6 |
| 4/13/2015 15:53:16 | 45.93 | 45.33 | 133 | 2.14 | 0.82 | 7.3 |
| 4/13/2015 15:53:22 | 46.26 | 45.66 | 29 | 2.18 | 1.17 | 1.6 |
| 4/13/2015 15:53:24 | 46.39 | 45.79 | 105 | 2.31 | 1.15 | 5.7 |

## KCB-324-11 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 15:50:11

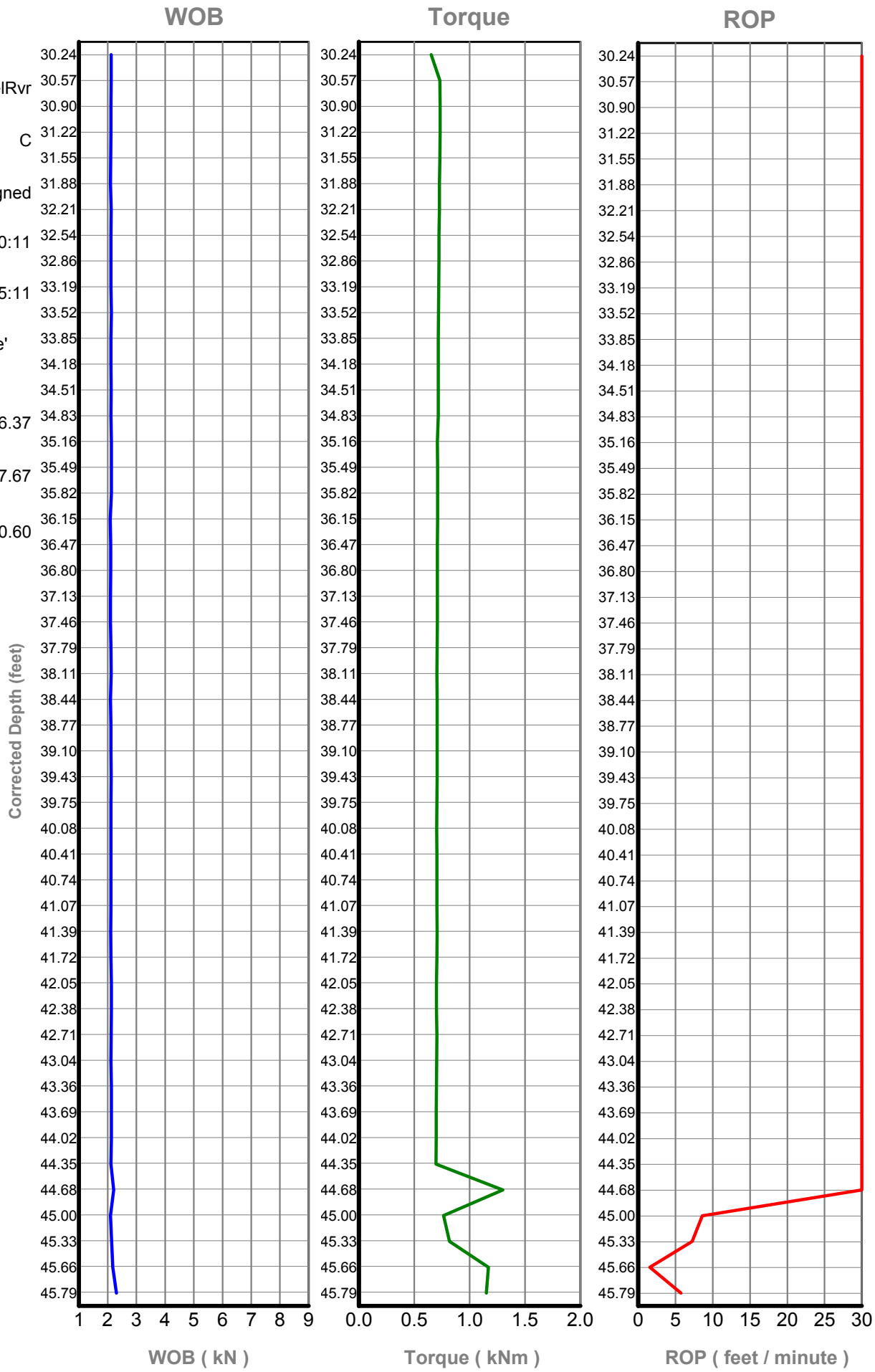
**End Date:**
4/13/2015 15:55:11

**Operator Note:**
'0.6 0.4 c Auto Complete'

**Northing:**
361,636.37

**Easting:**
244,477.67

**Tide (feet):**
0.60



## Hole: KCB-324-12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 13:19:16 | 31.82 | 30.32 | 914 | 2.13 | 0.82 | 50.0 |
| 4/13/2015 13:19:16 | 32.15 | 30.65 | 912 | 2.14 | 0.82 | 49.8 |
| 4/13/2015 13:19:16 | 32.48 | 30.98 | 920 | 2.12 | 0.82 | 50.3 |
| 4/13/2015 13:19:17 | 32.81 | 31.31 | 928 | 2.14 | 0.81 | 50.7 |
| 4/13/2015 13:19:17 | 33.14 | 31.64 | 928 | 2.14 | 0.81 | 50.7 |
| 4/13/2015 13:19:17 | 33.46 | 31.96 | 919 | 2.14 | 0.81 | 50.3 |
| 4/13/2015 13:19:18 | 33.79 | 32.29 | 914 | 2.12 | 0.81 | 50.0 |
| 4/13/2015 13:19:18 | 34.12 | 32.62 | 925 | 2.14 | 0.81 | 50.6 |
| 4/13/2015 13:19:19 | 34.45 | 32.95 | 925 | 2.14 | 0.81 | 50.6 |
| 4/13/2015 13:19:19 | 34.78 | 33.28 | 919 | 2.13 | 0.81 | 50.3 |
| 4/13/2015 13:19:19 | 35.11 | 33.61 | 916 | 2.14 | 0.81 | 50.1 |
| 4/13/2015 13:19:20 | 35.43 | 33.93 | 911 | 2.12 | 0.81 | 49.8 |
| 4/13/2015 13:19:20 | 35.76 | 34.26 | 911 | 2.12 | 0.81 | 49.8 |
| 4/13/2015 13:19:20 | 36.09 | 34.59 | 908 | 2.12 | 0.80 | 49.7 |
| 4/13/2015 13:19:21 | 36.42 | 34.92 | 911 | 2.13 | 0.82 | 49.8 |
| 4/13/2015 13:19:21 | 36.75 | 35.25 | 911 | 2.14 | 0.80 | 49.8 |
| 4/13/2015 13:19:22 | 37.07 | 35.57 | 911 | 2.14 | 0.80 | 49.8 |
| 4/13/2015 13:19:22 | 37.40 | 35.90 | 911 | 2.13 | 0.80 | 49.8 |
| 4/13/2015 13:19:23 | 37.73 | 36.23 | 923 | 2.14 | 0.80 | 50.5 |
| 4/13/2015 13:19:23 | 38.06 | 36.56 | 925 | 2.14 | 0.80 | 50.6 |
| 4/13/2015 13:19:24 | 38.39 | 36.89 | 925 | 2.14 | 0.80 | 50.6 |
| 4/13/2015 13:19:24 | 38.71 | 37.21 | 919 | 2.12 | 0.80 | 50.3 |
| 4/13/2015 13:19:24 | 39.04 | 37.54 | 919 | 2.13 | 0.79 | 50.3 |
| 4/13/2015 13:19:25 | 39.37 | 37.87 | 919 | 2.14 | 0.79 | 50.3 |
| 4/13/2015 13:19:25 | 39.70 | 38.20 | 919 | 2.14 | 0.79 | 50.3 |
| 4/13/2015 13:19:25 | 40.03 | 38.53 | 919 | 2.14 | 0.79 | 50.3 |
| 4/13/2015 13:19:26 | 40.35 | 38.85 | 919 | 2.13 | 0.79 | 50.3 |
| 4/13/2015 13:19:26 | 40.68 | 39.18 | 919 | 2.13 | 0.79 | 50.3 |
| 4/13/2015 13:19:26 | 41.01 | 39.51 | 917 | 2.14 | 0.79 | 50.1 |
| 4/13/2015 13:19:27 | 41.34 | 39.84 | 922 | 2.12 | 0.79 | 50.4 |
| 4/13/2015 13:19:27 | 41.67 | 40.17 | 922 | 2.13 | 0.79 | 50.4 |
| 4/13/2015 13:19:28 | 41.99 | 40.49 | 922 | 2.13 | 0.79 | 50.4 |
| 4/13/2015 13:19:28 | 42.32 | 40.82 | 916 | 2.14 | 0.79 | 50.1 |
| 4/13/2015 13:19:28 | 42.65 | 41.15 | 906 | 2.13 | 0.79 | 49.5 |
| 4/13/2015 13:19:29 | 42.98 | 41.48 | 918 | 2.13 | 0.79 | 50.2 |
| 4/13/2015 13:19:29 | 43.31 | 41.81 | 918 | 2.13 | 0.79 | 50.2 |
| 4/13/2015 13:19:29 | 43.64 | 42.14 | 915 | 2.13 | 0.79 | 50.0 |
| 4/13/2015 13:19:30 | 43.96 | 42.46 | 912 | 2.14 | 0.79 | 49.9 |
| 4/13/2015 13:19:30 | 44.29 | 42.79 | 906 | 2.14 | 0.78 | 49.6 |
| 4/13/2015 13:19:31 | 44.62 | 43.12 | 906 | 2.14 | 0.78 | 49.6 |
| 4/13/2015 13:19:31 | 44.95 | 43.45 | 925 | 2.14 | 0.78 | 50.6 |
| 4/13/2015 13:19:31 | 45.28 | 43.78 | 905 | 2.14 | 0.78 | 49.5 |
| 4/13/2015 13:19:32 | 45.60 | 44.10 | 902 | 2.14 | 0.78 | 49.3 |
| 4/13/2015 13:19:33 | 45.93 | 44.43 | 902 | 2.31 | 1.25 | 49.3 |
| 4/13/2015 13:19:56 | 46.19 | 44.69 | 0 | 2.21 | 1.10 | 0.0 |

## KCB-324-12 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 13:16:51

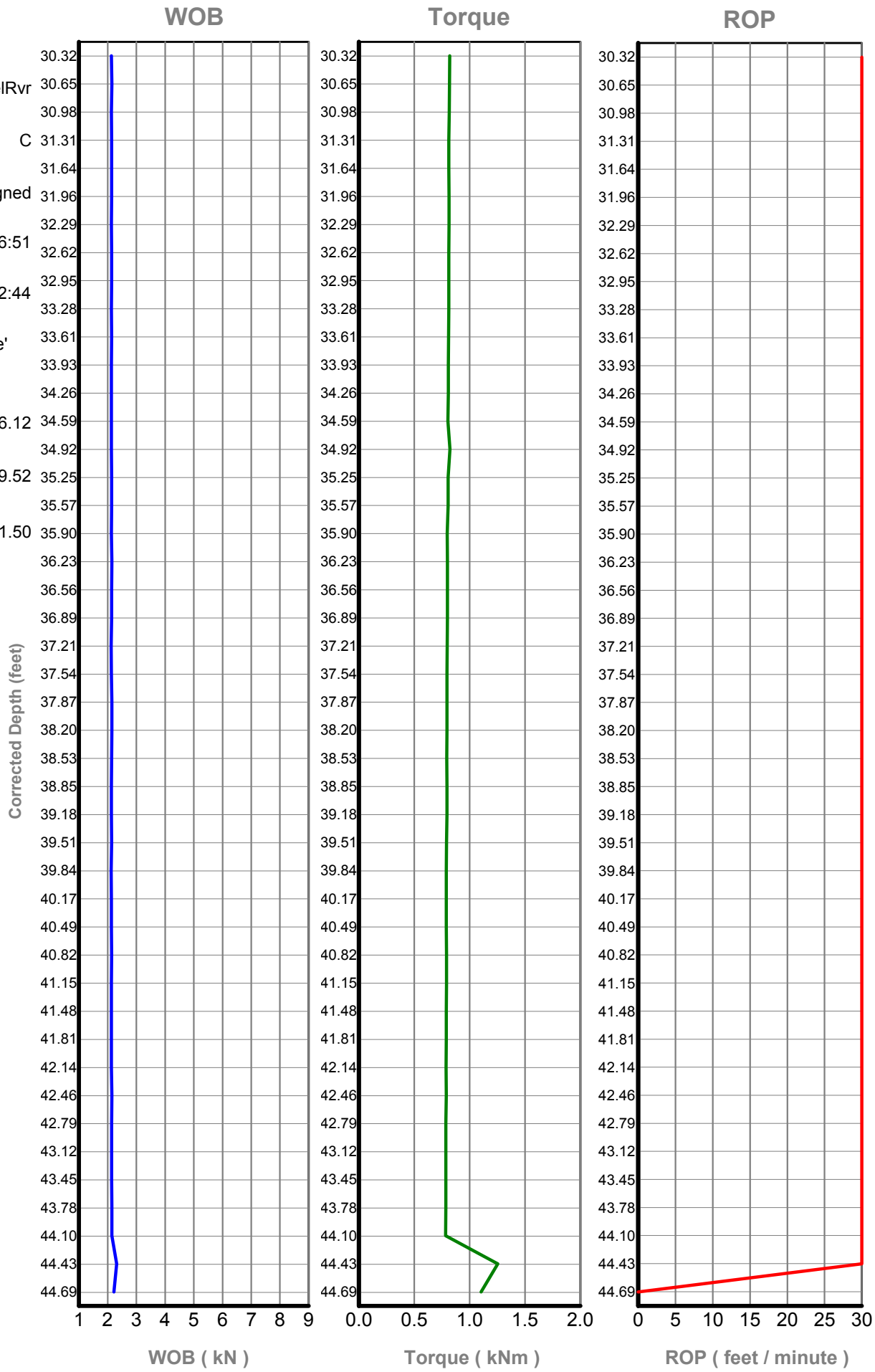
**End Date:**
4/13/2015 13:22:44

**Operator Note:**
'1.5 1.5 c Auto Complete'

**Northing:**
361,626.12

**Easting:**
244,479.52

**Tide (feet):**
1.50



## Hole: KCB-324-13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:59:52 | 30.84 | 30.14 | 861 | 2.12 | 0.80 | 47.1 |
| 4/13/2015 15:59:52 | 31.17 | 30.47 | 867 | 2.10 | 0.79 | 47.4 |
| 4/13/2015 15:59:53 | 31.50 | 30.80 | 852 | 2.10 | 0.80 | 46.6 |
| 4/13/2015 15:59:53 | 31.82 | 31.12 | 833 | 2.10 | 0.80 | 45.5 |
| 4/13/2015 15:59:54 | 32.15 | 31.45 | 835 | 2.10 | 0.80 | 45.6 |
| 4/13/2015 15:59:54 | 32.48 | 31.78 | 835 | 2.10 | 0.80 | 45.6 |
| 4/13/2015 15:59:54 | 32.81 | 32.11 | 835 | 2.11 | 0.80 | 45.6 |
| 4/13/2015 15:59:55 | 33.14 | 32.44 | 830 | 2.10 | 0.78 | 45.4 |
| 4/13/2015 15:59:55 | 33.46 | 32.76 | 830 | 2.11 | 0.80 | 45.4 |
| 4/13/2015 15:59:56 | 33.79 | 33.09 | 837 | 2.10 | 0.80 | 45.8 |
| 4/13/2015 15:59:56 | 34.12 | 33.42 | 837 | 2.10 | 0.80 | 45.8 |
| 4/13/2015 15:59:56 | 34.45 | 33.75 | 837 | 2.10 | 0.80 | 45.8 |
| 4/13/2015 15:59:57 | 34.78 | 34.08 | 849 | 2.38 | 0.79 | 46.4 |
| 4/13/2015 15:59:57 | 35.11 | 34.41 | 871 | 2.12 | 0.80 | 47.6 |
| 4/13/2015 15:59:58 | 35.43 | 34.73 | 881 | 2.10 | 0.80 | 48.2 |
| 4/13/2015 15:59:59 | 35.76 | 35.06 | 881 | 2.10 | 0.80 | 48.2 |
| 4/13/2015 15:59:59 | 36.09 | 35.39 | 869 | 2.12 | 0.80 | 47.5 |
| 4/13/2015 15:59:59 | 36.42 | 35.72 | 862 | 2.12 | 0.80 | 47.1 |
| 4/13/2015 16:00:00 | 36.75 | 36.05 | 861 | 2.10 | 0.80 | 47.1 |
| 4/13/2015 16:00:00 | 37.07 | 36.37 | 850 | 2.12 | 0.80 | 46.5 |
| 4/13/2015 16:00:01 | 37.40 | 36.70 | 850 | 2.12 | 0.80 | 46.5 |
| 4/13/2015 16:00:01 | 37.73 | 37.03 | 853 | 2.10 | 0.80 | 46.6 |
| 4/13/2015 16:00:01 | 38.06 | 37.36 | 862 | 2.11 | 0.80 | 47.1 |
| 4/13/2015 16:00:02 | 38.39 | 37.69 | 864 | 2.11 | 0.80 | 47.3 |
| 4/13/2015 16:00:02 | 38.71 | 38.01 | 861 | 2.06 | 0.80 | 47.1 |
| 4/13/2015 16:00:03 | 39.04 | 38.34 | 861 | 2.06 | 0.80 | 47.1 |
| 4/13/2015 16:00:03 | 39.37 | 38.67 | 861 | 2.11 | 0.80 | 47.1 |
| 4/13/2015 16:00:03 | 39.70 | 39.00 | 856 | 2.11 | 0.80 | 46.8 |
| 4/13/2015 16:00:04 | 40.03 | 39.33 | 861 | 2.10 | 0.80 | 47.1 |
| 4/13/2015 16:00:04 | 40.35 | 39.65 | 861 | 2.09 | 0.80 | 47.1 |
| 4/13/2015 16:00:05 | 40.68 | 39.98 | 861 | 2.09 | 0.80 | 47.1 |
| 4/13/2015 16:00:05 | 41.01 | 40.31 | 861 | 2.22 | 0.80 | 47.1 |
| 4/13/2015 16:00:05 | 41.34 | 40.64 | 861 | 2.10 | 0.80 | 47.1 |
| 4/13/2015 16:00:06 | 41.67 | 40.97 | 861 | 2.10 | 0.80 | 47.1 |
| 4/13/2015 16:00:06 | 41.99 | 41.29 | 861 | 2.11 | 0.80 | 47.1 |
| 4/13/2015 16:00:07 | 42.32 | 41.62 | 861 | 2.11 | 0.80 | 47.1 |
| 4/13/2015 16:00:07 | 42.65 | 41.95 | 859 | 2.12 | 0.80 | 46.9 |
| 4/13/2015 16:00:07 | 42.98 | 42.28 | 853 | 2.12 | 0.80 | 46.7 |
| 4/13/2015 16:00:08 | 43.31 | 42.61 | 861 | 2.12 | 0.80 | 47.1 |
| 4/13/2015 16:00:09 | 43.64 | 42.94 | 859 | 2.12 | 0.80 | 47.0 |
| 4/13/2015 16:00:09 | 43.96 | 43.26 | 859 | 2.12 | 0.80 | 47.0 |
| 4/13/2015 16:00:09 | 44.29 | 43.59 | 833 | 2.07 | 0.80 | 45.5 |
| 4/13/2015 16:00:10 | 44.62 | 43.92 | 833 | 2.11 | 0.80 | 45.5 |
| 4/13/2015 16:00:10 | 44.95 | 44.25 | 845 | 2.12 | 0.79 | 46.2 |
| 4/13/2015 16:00:11 | 45.28 | 44.58 | 843 | 2.25 | 1.00 | 46.1 |
| 4/13/2015 16:00:13 | 45.60 | 44.90 | 136 | 2.35 | 1.31 | 7.4 |
| 4/13/2015 16:00:20 | 45.77 | 45.07 | 35 | 2.33 | 1.13 | 1.9 |

## KCB-324-13 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 15:58:11

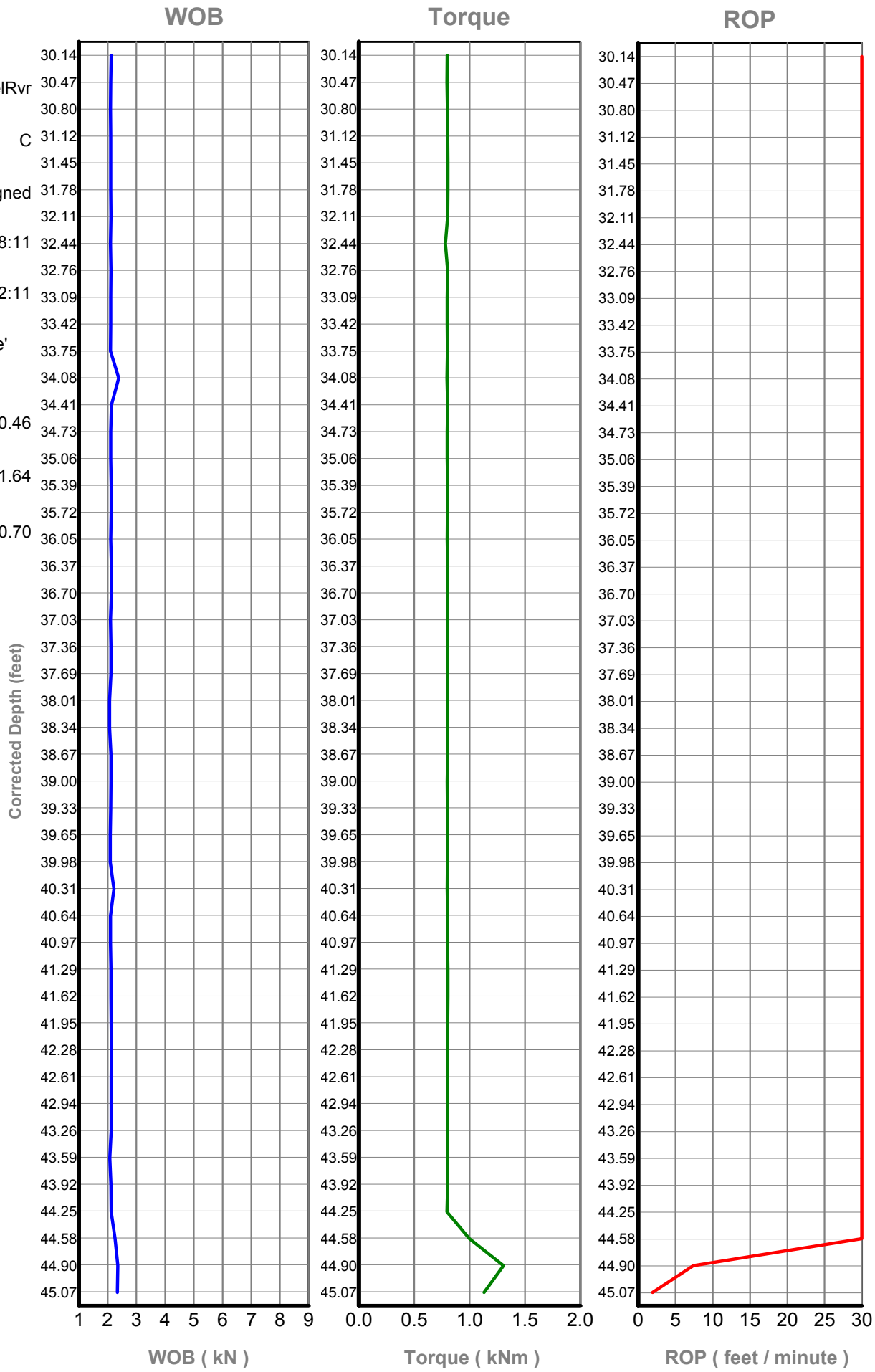
**End Date:**
4/13/2015 16:02:11

**Operator Note:**
'0.7 0.5 c Auto Complete'

**Northing:**
361,640.46

**Easting:**
244,481.64

**Tide (feet):**
0.70



## Hole: KCB-324-14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 13:28:22 | 31.50 | 30.10 | 931 | 2.12 | 0.28 | 50.9 |
| 4/13/2015 13:28:22 | 31.82 | 30.42 | 931 | 2.14 | 0.28 | 50.9 |
| 4/13/2015 13:28:23 | 32.15 | 30.75 | 931 | 2.12 | 0.26 | 50.9 |
| 4/13/2015 13:28:24 | 32.48 | 31.08 | 931 | 2.12 | 0.26 | 50.9 |
| 4/13/2015 13:28:24 | 32.81 | 31.41 | 920 | 2.14 | 0.28 | 50.3 |
| 4/13/2015 13:28:24 | 33.14 | 31.74 | 931 | 2.14 | 0.29 | 50.9 |
| 4/13/2015 13:28:25 | 33.46 | 32.06 | 934 | 2.12 | 0.28 | 51.1 |
| 4/13/2015 13:28:25 | 33.79 | 32.39 | 934 | 2.12 | 0.28 | 51.1 |
| 4/13/2015 13:28:25 | 34.12 | 32.72 | 931 | 2.12 | 0.28 | 50.9 |
| 4/13/2015 13:28:26 | 34.45 | 33.05 | 926 | 2.12 | 0.28 | 50.6 |
| 4/13/2015 13:28:26 | 34.78 | 33.38 | 937 | 2.14 | 0.28 | 51.2 |
| 4/13/2015 13:28:27 | 35.11 | 33.71 | 937 | 2.14 | 0.28 | 51.2 |
| 4/13/2015 13:28:27 | 35.43 | 34.03 | 931 | 2.13 | 0.28 | 50.9 |
| 4/13/2015 13:28:27 | 35.76 | 34.36 | 928 | 2.12 | 0.28 | 50.8 |
| 4/13/2015 13:28:28 | 36.09 | 34.69 | 928 | 2.12 | 0.28 | 50.8 |
| 4/13/2015 13:28:28 | 36.42 | 35.02 | 928 | 2.12 | 0.28 | 50.8 |
| 4/13/2015 13:28:28 | 36.75 | 35.35 | 934 | 2.14 | 0.28 | 51.0 |
| 4/13/2015 13:28:29 | 37.07 | 35.67 | 931 | 2.10 | 0.28 | 50.9 |
| 4/13/2015 13:28:29 | 37.40 | 36.00 | 931 | 2.10 | 0.28 | 50.9 |
| 4/13/2015 13:28:29 | 37.73 | 36.33 | 928 | 2.13 | 0.28 | 50.7 |
| 4/13/2015 13:28:30 | 38.06 | 36.66 | 934 | 2.13 | 0.27 | 51.1 |
| 4/13/2015 13:28:30 | 38.39 | 36.99 | 928 | 2.13 | 0.28 | 50.7 |
| 4/13/2015 13:28:31 | 38.71 | 37.31 | 928 | 2.13 | 0.28 | 50.7 |
| 4/13/2015 13:28:31 | 39.04 | 37.64 | 937 | 2.13 | 0.28 | 51.2 |
| 4/13/2015 13:28:31 | 39.37 | 37.97 | 937 | 2.14 | 0.28 | 51.2 |
| 4/13/2015 13:28:32 | 39.70 | 38.30 | 942 | 2.14 | 0.28 | 51.5 |
| 4/13/2015 13:28:32 | 40.03 | 38.63 | 942 | 2.14 | 0.28 | 51.5 |
| 4/13/2015 13:28:32 | 40.35 | 38.95 | 937 | 2.14 | 0.28 | 51.2 |
| 4/13/2015 13:28:33 | 40.68 | 39.28 | 940 | 2.14 | 0.28 | 51.4 |
| 4/13/2015 13:28:33 | 41.01 | 39.61 | 937 | 2.12 | 0.81 | 51.2 |
| 4/13/2015 13:28:34 | 41.34 | 39.94 | 937 | 2.12 | 0.81 | 51.2 |
| 4/13/2015 13:28:34 | 41.67 | 40.27 | 937 | 2.14 | 0.84 | 51.2 |
| 4/13/2015 13:28:35 | 41.99 | 40.59 | 928 | 2.14 | 0.84 | 50.7 |
| 4/13/2015 13:28:35 | 42.32 | 40.92 | 928 | 2.14 | 0.84 | 50.7 |
| 4/13/2015 13:28:35 | 42.65 | 41.25 | 937 | 2.14 | 0.84 | 51.2 |
| 4/13/2015 13:28:36 | 42.98 | 41.58 | 937 | 2.14 | 0.85 | 51.2 |
| 4/13/2015 13:28:36 | 43.31 | 41.91 | 934 | 2.14 | 0.85 | 51.1 |
| 4/13/2015 13:28:37 | 43.64 | 42.24 | 934 | 2.14 | 0.85 | 51.1 |
| 4/13/2015 13:28:37 | 43.96 | 42.56 | 931 | 2.12 | 0.86 | 50.9 |
| 4/13/2015 13:28:37 | 44.29 | 42.89 | 939 | 2.14 | 0.86 | 51.4 |
| 4/13/2015 13:28:38 | 44.62 | 43.22 | 931 | 2.13 | 0.86 | 50.9 |
| 4/13/2015 13:28:38 | 44.95 | 43.55 | 931 | 2.13 | 0.86 | 50.9 |
| 4/13/2015 13:28:38 | 45.28 | 43.88 | 906 | 2.14 | 0.86 | 49.6 |
| 4/13/2015 13:28:39 | 45.60 | 44.20 | 906 | 2.12 | 0.87 | 49.6 |
| 4/13/2015 13:28:39 | 45.93 | 44.53 | 906 | 2.12 | 0.88 | 49.6 |
| 4/13/2015 13:28:40 | 46.26 | 44.86 | 906 | 2.12 | 0.88 | 49.6 |
| 4/13/2015 13:28:40 | 46.59 | 45.19 | 901 | 2.14 | 0.87 | 49.3 |
| 4/13/2015 13:28:40 | 46.92 | 45.52 | 901 | 2.33 | 1.26 | 49.3 |
| 4/13/2015 13:29:42 | 47.24 | 45.84 | 6 | 2.33 | 1.37 | 0.3 |
| 4/13/2015 13:30:31 | 47.57 | 46.17 | 15 | 2.36 | 1.30 | 0.8 |
| 4/13/2015 13:32:22 | 47.87 | 46.47 | 0 | 2.33 | 1.19 | 0.0 |

## KCB-324-14 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 13:25:47

**End Date:**
4/13/2015 13:35:02

**Operator Note:**
'1.4 1.5 c Auto Complete'

**Northing:**
361,622.32

**Easting:**
244,483.67

**Tide (feet):**
1.40



## Hole: KCB-324-15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 16:05:25 | 30.84 | 30.04 | 891 | 2.10 | 0.73 | 48.7 |
| 4/13/2015 16:05:25 | 31.17 | 30.37 | 896 | 2.10 | 0.73 | 49.0 |
| 4/13/2015 16:05:26 | 31.50 | 30.70 | 890 | 2.10 | 0.73 | 48.7 |
| 4/13/2015 16:05:26 | 31.82 | 31.02 | 890 | 2.10 | 0.73 | 48.7 |
| 4/13/2015 16:05:26 | 32.15 | 31.35 | 888 | 2.10 | 0.73 | 48.5 |
| 4/13/2015 16:05:27 | 32.48 | 31.68 | 888 | 2.09 | 0.73 | 48.5 |
| 4/13/2015 16:05:27 | 32.81 | 32.01 | 896 | 2.10 | 0.72 | 49.0 |
| 4/13/2015 16:05:28 | 33.14 | 32.34 | 885 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 16:05:28 | 33.46 | 32.66 | 885 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 16:05:28 | 33.79 | 32.99 | 887 | 2.10 | 0.72 | 48.5 |
| 4/13/2015 16:05:29 | 34.12 | 33.32 | 882 | 2.10 | 0.72 | 48.2 |
| 4/13/2015 16:05:29 | 34.45 | 33.65 | 888 | 2.10 | 0.72 | 48.5 |
| 4/13/2015 16:05:30 | 34.78 | 33.98 | 888 | 2.10 | 0.72 | 48.5 |
| 4/13/2015 16:05:30 | 35.11 | 34.31 | 885 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 16:05:30 | 35.43 | 34.63 | 887 | 2.11 | 0.72 | 48.5 |
| 4/13/2015 16:05:31 | 35.76 | 34.96 | 884 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 16:05:32 | 36.09 | 35.29 | 884 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 16:05:32 | 36.42 | 35.62 | 887 | 2.11 | 0.72 | 48.5 |
| 4/13/2015 16:05:32 | 36.75 | 35.95 | 887 | 2.10 | 0.72 | 48.5 |
| 4/13/2015 16:05:33 | 37.07 | 36.27 | 890 | 2.10 | 0.72 | 48.6 |
| 4/13/2015 16:05:33 | 37.40 | 36.60 | 882 | 2.10 | 0.72 | 48.3 |
| 4/13/2015 16:05:34 | 37.73 | 36.93 | 882 | 2.10 | 0.72 | 48.3 |
| 4/13/2015 16:05:34 | 38.06 | 37.26 | 894 | 2.10 | 0.73 | 48.9 |
| 4/13/2015 16:05:34 | 38.39 | 37.59 | 891 | 2.11 | 0.71 | 48.7 |
| 4/13/2015 16:05:35 | 38.71 | 37.91 | 888 | 2.10 | 0.71 | 48.6 |
| 4/13/2015 16:05:35 | 39.04 | 38.24 | 888 | 2.10 | 0.71 | 48.6 |
| 4/13/2015 16:05:35 | 39.37 | 38.57 | 883 | 2.10 | 0.73 | 48.3 |
| 4/13/2015 16:05:36 | 39.70 | 38.90 | 896 | 2.10 | 0.73 | 49.0 |
| 4/13/2015 16:05:36 | 40.03 | 39.23 | 885 | 2.10 | 0.73 | 48.4 |
| 4/13/2015 16:05:37 | 40.35 | 39.55 | 887 | 2.10 | 0.73 | 48.5 |
| 4/13/2015 16:05:37 | 40.68 | 39.88 | 887 | 2.10 | 0.73 | 48.5 |
| 4/13/2015 16:05:37 | 41.01 | 40.21 | 887 | 2.10 | 0.73 | 48.5 |
| 4/13/2015 16:05:38 | 41.34 | 40.54 | 885 | 2.10 | 0.74 | 48.4 |
| 4/13/2015 16:05:38 | 41.67 | 40.87 | 876 | 2.11 | 0.72 | 47.9 |
| 4/13/2015 16:05:39 | 41.99 | 41.19 | 876 | 2.11 | 0.72 | 47.9 |
| 4/13/2015 16:05:39 | 42.32 | 41.52 | 882 | 2.12 | 0.74 | 48.2 |
| 4/13/2015 16:05:39 | 42.65 | 41.85 | 876 | 2.10 | 0.74 | 47.9 |
| 4/13/2015 16:05:40 | 42.98 | 42.18 | 879 | 2.10 | 0.73 | 48.1 |
| 4/13/2015 16:05:40 | 43.31 | 42.51 | 879 | 2.14 | 0.96 | 48.1 |
| 4/13/2015 16:05:41 | 43.64 | 42.84 | 879 | 2.14 | 0.96 | 48.1 |
| 4/13/2015 16:05:41 | 43.96 | 43.16 | 872 | 2.14 | 0.82 | 47.7 |
| 4/13/2015 16:05:52 | 44.29 | 43.49 | 63 | 2.33 | 1.36 | 3.4 |
| 4/13/2015 16:06:08 | 44.58 | 43.78 | 48 | 2.31 | 1.30 | 2.6 |

## KCB-324-15 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 16:03:57

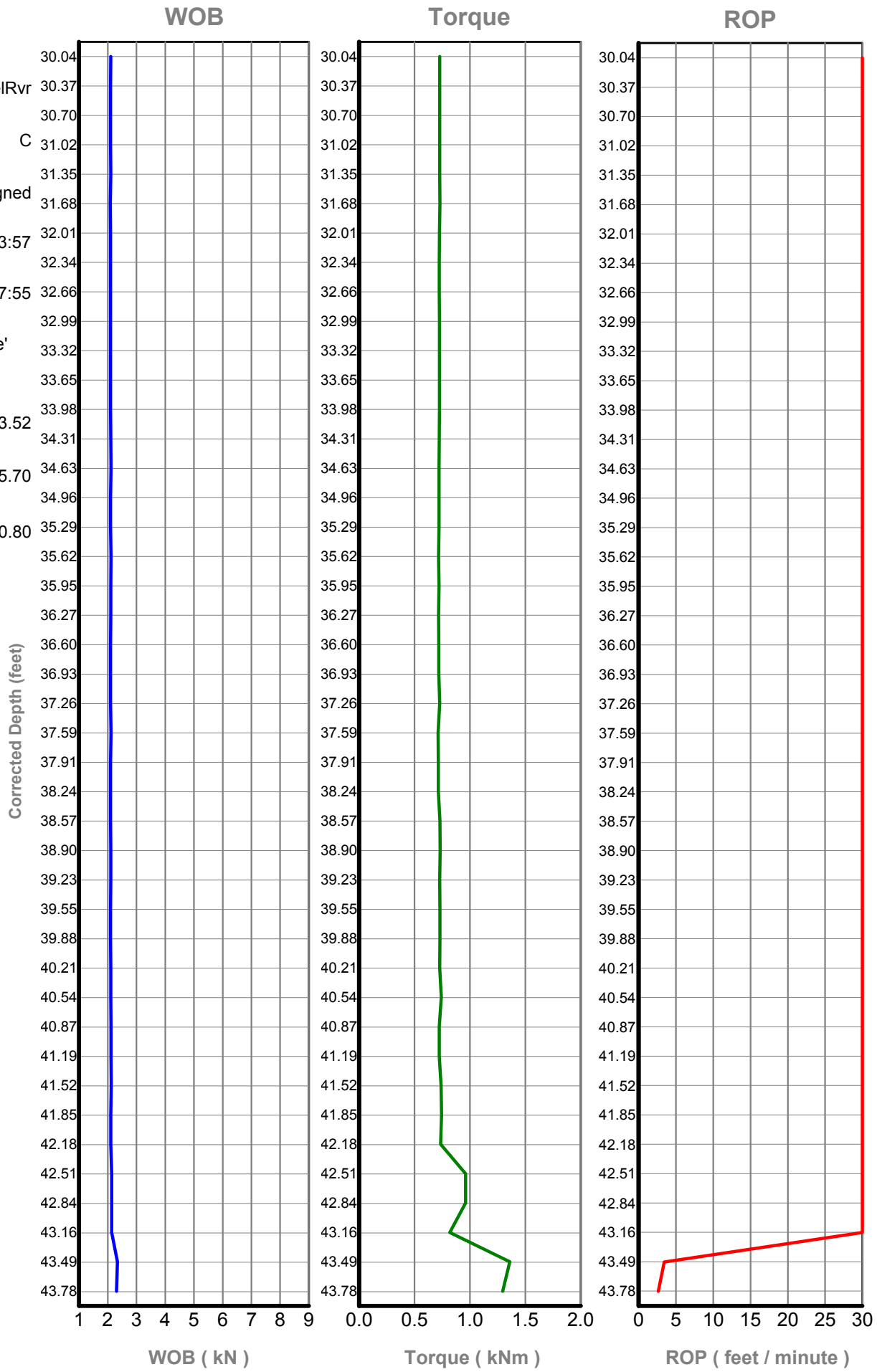
**End Date:**
4/13/2015 16:07:55

**Operator Note:**
'0.8 0,7 c Auto Complete'

**Northing:**
361,643.52

**Easting:**
244,485.70

**Tide (feet):**
0.80



## Hole: KCB-324-16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 13:41:59 | 31.50 | 30.20 | 913 | 2.12 | 0.27 | 49.9 |
| 4/13/2015 13:42:00 | 31.82 | 30.52 | 913 | 2.11 | 0.40 | 49.9 |
| 4/13/2015 13:42:00 | 32.15 | 30.85 | 913 | 2.11 | 0.40 | 49.9 |
| 4/13/2015 13:42:00 | 32.48 | 31.18 | 913 | 2.11 | 0.80 | 49.9 |
| 4/13/2015 13:42:01 | 32.81 | 31.51 | 913 | 2.12 | 0.82 | 49.9 |
| 4/13/2015 13:42:01 | 33.14 | 31.84 | 908 | 2.12 | 0.83 | 49.7 |
| 4/13/2015 13:42:02 | 33.46 | 32.16 | 908 | 2.12 | 0.83 | 49.7 |
| 4/13/2015 13:42:02 | 33.79 | 32.49 | 916 | 2.12 | 0.83 | 50.1 |
| 4/13/2015 13:42:02 | 34.12 | 32.82 | 913 | 2.14 | 0.83 | 50.0 |
| 4/13/2015 13:42:03 | 34.45 | 33.15 | 913 | 2.13 | 0.83 | 50.0 |
| 4/13/2015 13:42:03 | 34.78 | 33.48 | 913 | 2.13 | 0.83 | 50.0 |
| 4/13/2015 13:42:03 | 35.11 | 33.81 | 911 | 2.13 | 0.84 | 49.8 |
| 4/13/2015 13:42:04 | 35.43 | 34.13 | 911 | 2.12 | 0.84 | 49.8 |
| 4/13/2015 13:42:04 | 35.76 | 34.46 | 905 | 2.12 | 0.84 | 49.5 |
| 4/13/2015 13:42:05 | 36.09 | 34.79 | 905 | 2.12 | 0.84 | 49.5 |
| 4/13/2015 13:42:05 | 36.42 | 35.12 | 905 | 2.12 | 0.85 | 49.5 |
| 4/13/2015 13:42:05 | 36.75 | 35.45 | 902 | 2.09 | 0.85 | 49.3 |
| 4/13/2015 13:42:06 | 37.07 | 35.77 | 913 | 2.12 | 0.85 | 49.9 |
| 4/13/2015 13:42:07 | 37.40 | 36.10 | 913 | 2.12 | 0.85 | 49.9 |
| 4/13/2015 13:42:07 | 37.73 | 36.43 | 913 | 2.12 | 0.84 | 49.9 |
| 4/13/2015 13:42:07 | 38.06 | 36.76 | 911 | 2.17 | 0.85 | 49.8 |
| 4/13/2015 13:42:08 | 38.39 | 37.09 | 913 | 2.14 | 0.85 | 49.9 |
| 4/13/2015 13:42:08 | 38.71 | 37.41 | 913 | 2.14 | 0.85 | 49.9 |
| 4/13/2015 13:42:08 | 39.04 | 37.74 | 922 | 2.12 | 0.84 | 50.4 |
| 4/13/2015 13:42:09 | 39.37 | 38.07 | 914 | 2.12 | 0.84 | 50.0 |
| 4/13/2015 13:42:09 | 39.70 | 38.40 | 914 | 2.11 | 0.84 | 50.0 |
| 4/13/2015 13:42:10 | 40.03 | 38.73 | 914 | 2.11 | 0.84 | 50.0 |
| 4/13/2015 13:42:10 | 40.35 | 39.05 | 914 | 2.11 | 0.84 | 50.0 |
| 4/13/2015 13:42:10 | 40.68 | 39.38 | 922 | 2.11 | 0.84 | 50.4 |
| 4/13/2015 13:42:11 | 41.01 | 39.71 | 911 | 2.12 | 0.83 | 49.8 |
| 4/13/2015 13:42:11 | 41.34 | 40.04 | 911 | 2.12 | 0.83 | 49.8 |
| 4/13/2015 13:42:11 | 41.67 | 40.37 | 916 | 2.12 | 0.83 | 50.1 |
| 4/13/2015 13:42:12 | 41.99 | 40.69 | 916 | 2.12 | 0.83 | 50.1 |
| 4/13/2015 13:42:12 | 42.32 | 41.02 | 925 | 2.12 | 0.83 | 50.6 |
| 4/13/2015 13:42:13 | 42.65 | 41.35 | 925 | 2.12 | 0.83 | 50.6 |
| 4/13/2015 13:42:13 | 42.98 | 41.68 | 911 | 2.11 | 0.83 | 49.8 |
| 4/13/2015 13:42:13 | 43.31 | 42.01 | 911 | 2.11 | 0.82 | 49.8 |
| 4/13/2015 13:42:14 | 43.64 | 42.34 | 905 | 2.12 | 0.82 | 49.5 |
| 4/13/2015 13:42:14 | 43.96 | 42.66 | 905 | 2.12 | 0.82 | 49.5 |
| 4/13/2015 13:42:14 | 44.29 | 42.99 | 911 | 2.11 | 0.82 | 49.8 |
| 4/13/2015 13:42:15 | 44.62 | 43.32 | 892 | 2.11 | 0.82 | 48.8 |
| 4/13/2015 13:42:15 | 44.95 | 43.65 | 892 | 2.11 | 0.82 | 48.8 |
| 4/13/2015 13:42:16 | 45.28 | 43.98 | 899 | 2.12 | 0.82 | 49.2 |
| 4/13/2015 13:42:16 | 45.60 | 44.30 | 899 | 2.12 | 0.82 | 49.2 |
| 4/13/2015 13:42:17 | 45.93 | 44.63 | 904 | 2.11 | 0.82 | 49.4 |
| 4/13/2015 13:42:17 | 46.26 | 44.96 | 905 | 2.12 | 0.82 | 49.5 |
| 4/13/2015 13:42:18 | 46.59 | 45.29 | 889 | 2.14 | 0.86 | 48.6 |
| 4/13/2015 13:42:18 | 46.92 | 45.62 | 889 | 2.14 | 0.86 | 48.6 |
| 4/13/2015 13:42:18 | 47.24 | 45.94 | 889 | 2.16 | 1.04 | 48.6 |
| 4/13/2015 13:42:55 | 47.55 | 46.25 | 0 | 2.19 | 1.19 | 0.0 |

## KCB-324-16 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 13:40:11

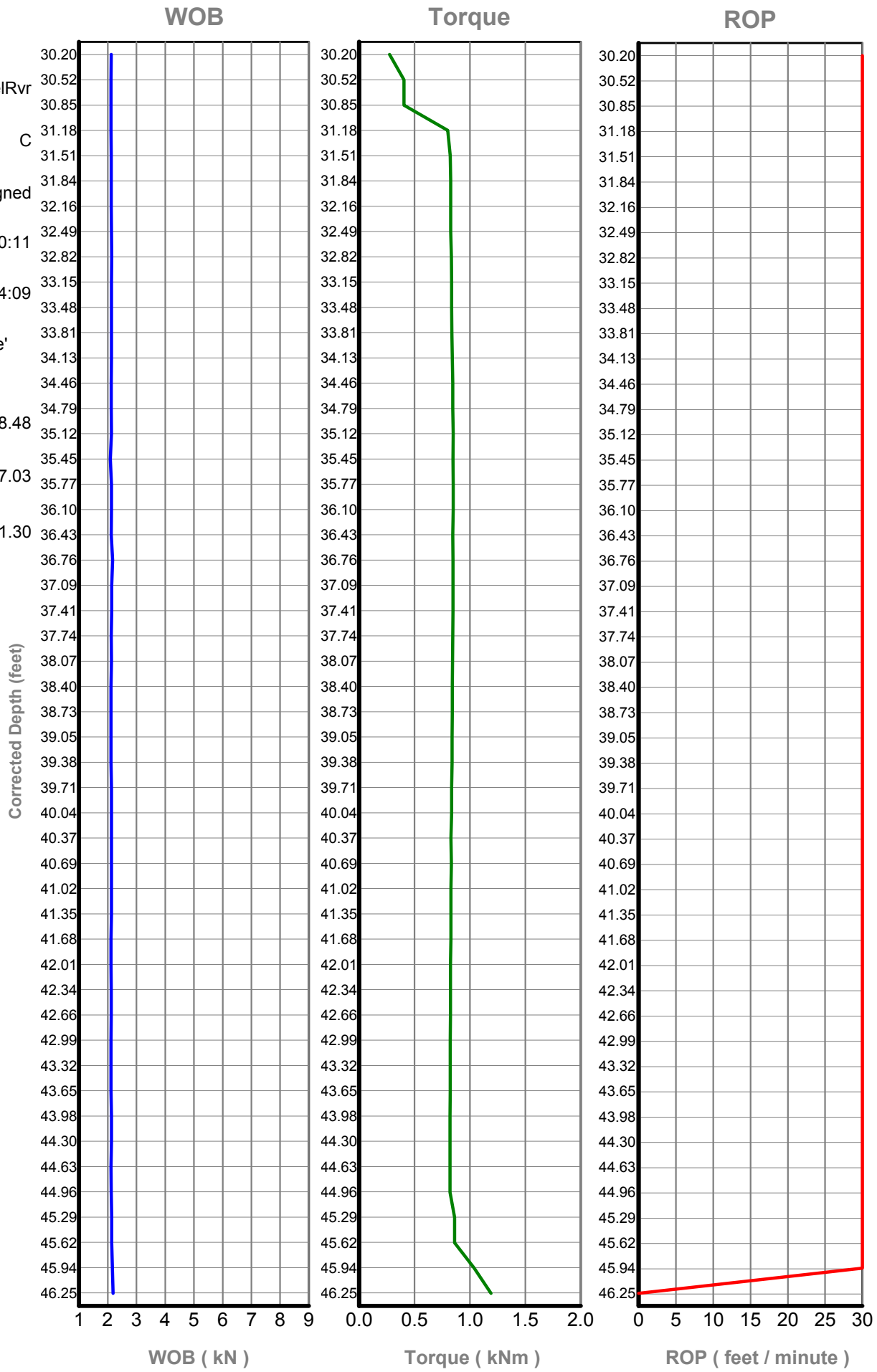
**End Date:**
4/13/2015 13:44:09

**Operator Note:**
'1.3 1.3 c Auto Complete'

**Northing:**
361,618.48

**Easting:**
244,487.03

**Tide (feet):**
1.30



## Hole: KCB-324-17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 16:17:51 | 31.17 | 30.07 | 892 | 2.09 | 0.74 | 48.8 |
| 4/13/2015 16:17:51 | 31.50 | 30.40 | 895 | 2.11 | 0.74 | 48.9 |
| 4/13/2015 16:17:52 | 31.82 | 30.72 | 908 | 2.10 | 0.74 | 49.6 |
| 4/13/2015 16:17:52 | 32.15 | 31.05 | 908 | 2.12 | 0.73 | 49.6 |
| 4/13/2015 16:17:53 | 32.48 | 31.38 | 908 | 2.12 | 0.73 | 49.6 |
| 4/13/2015 16:17:53 | 32.81 | 31.71 | 910 | 2.10 | 0.73 | 49.8 |
| 4/13/2015 16:17:53 | 33.14 | 32.04 | 910 | 2.10 | 0.73 | 49.8 |
| 4/13/2015 16:17:54 | 33.46 | 32.36 | 897 | 2.11 | 0.73 | 49.1 |
| 4/13/2015 16:17:54 | 33.79 | 32.69 | 897 | 2.11 | 0.73 | 49.1 |
| 4/13/2015 16:17:54 | 34.12 | 33.02 | 894 | 2.12 | 0.73 | 48.9 |
| 4/13/2015 16:17:55 | 34.45 | 33.35 | 894 | 2.10 | 0.73 | 48.9 |
| 4/13/2015 16:17:55 | 34.78 | 33.68 | 899 | 2.10 | 0.73 | 49.2 |
| 4/13/2015 16:17:56 | 35.11 | 34.01 | 899 | 2.10 | 0.73 | 49.2 |
| 4/13/2015 16:17:56 | 35.43 | 34.33 | 905 | 2.12 | 0.73 | 49.5 |
| 4/13/2015 16:17:56 | 35.76 | 34.66 | 880 | 2.10 | 0.73 | 48.1 |
| 4/13/2015 16:17:57 | 36.09 | 34.99 | 895 | 2.11 | 0.73 | 48.9 |
| 4/13/2015 16:17:57 | 36.42 | 35.32 | 898 | 2.10 | 0.73 | 49.1 |
| 4/13/2015 16:17:58 | 36.75 | 35.65 | 898 | 2.10 | 0.73 | 49.1 |
| 4/13/2015 16:17:58 | 37.07 | 35.97 | 890 | 2.12 | 0.73 | 48.7 |
| 4/13/2015 16:17:58 | 37.40 | 36.30 | 874 | 2.10 | 0.73 | 47.8 |
| 4/13/2015 16:17:59 | 37.73 | 36.63 | 889 | 2.10 | 0.73 | 48.6 |
| 4/13/2015 16:17:59 | 38.06 | 36.96 | 889 | 2.10 | 0.73 | 48.6 |
| 4/13/2015 16:17:59 | 38.39 | 37.29 | 889 | 2.10 | 0.73 | 48.6 |
| 4/13/2015 16:18:00 | 38.71 | 37.61 | 901 | 2.10 | 0.73 | 49.2 |
| 4/13/2015 16:18:01 | 39.04 | 37.94 | 873 | 2.10 | 0.73 | 47.7 |
| 4/13/2015 16:18:01 | 39.37 | 38.27 | 873 | 2.10 | 0.73 | 47.7 |
| 4/13/2015 16:18:01 | 39.70 | 38.60 | 873 | 2.11 | 0.73 | 47.7 |
| 4/13/2015 16:18:02 | 40.03 | 38.93 | 879 | 2.12 | 0.73 | 48.0 |
| 4/13/2015 16:18:02 | 40.35 | 39.25 | 900 | 2.11 | 0.73 | 49.2 |
| 4/13/2015 16:18:03 | 40.68 | 39.58 | 900 | 2.11 | 0.73 | 49.2 |
| 4/13/2015 16:18:03 | 41.01 | 39.91 | 902 | 2.10 | 0.73 | 49.3 |
| 4/13/2015 16:18:03 | 41.34 | 40.24 | 880 | 2.12 | 0.73 | 48.1 |
| 4/13/2015 16:18:04 | 41.67 | 40.57 | 908 | 2.10 | 0.73 | 49.6 |
| 4/13/2015 16:18:04 | 41.99 | 40.89 | 867 | 2.11 | 0.73 | 47.4 |
| 4/13/2015 16:18:05 | 42.32 | 41.22 | 867 | 2.11 | 0.73 | 47.4 |
| 4/13/2015 16:18:05 | 42.65 | 41.55 | 867 | 2.11 | 0.73 | 47.4 |
| 4/13/2015 16:18:05 | 42.98 | 41.88 | 883 | 2.12 | 0.75 | 48.3 |
| 4/13/2015 16:18:06 | 43.31 | 42.21 | 875 | 2.10 | 0.74 | 47.9 |
| 4/13/2015 16:18:06 | 43.64 | 42.54 | 875 | 2.10 | 0.74 | 47.9 |
| 4/13/2015 16:18:06 | 43.96 | 42.86 | 851 | 2.12 | 0.75 | 46.5 |
| 4/13/2015 16:18:07 | 44.29 | 43.19 | 851 | 2.14 | 0.74 | 46.5 |
| 4/13/2015 16:18:08 | 44.62 | 43.52 | 769 | 2.31 | 0.75 | 42.1 |
| 4/13/2015 16:18:08 | 44.95 | 43.85 | 645 | 2.31 | 0.78 | 35.2 |
| 4/13/2015 16:18:10 | 45.28 | 44.18 | 451 | 2.18 | 1.24 | 24.7 |
| 4/13/2015 16:18:37 | 45.35 | 44.25 | 0 | 2.15 | 0.78 | 0.0 |

## KCB-324-17 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/13/2015 16:14:48

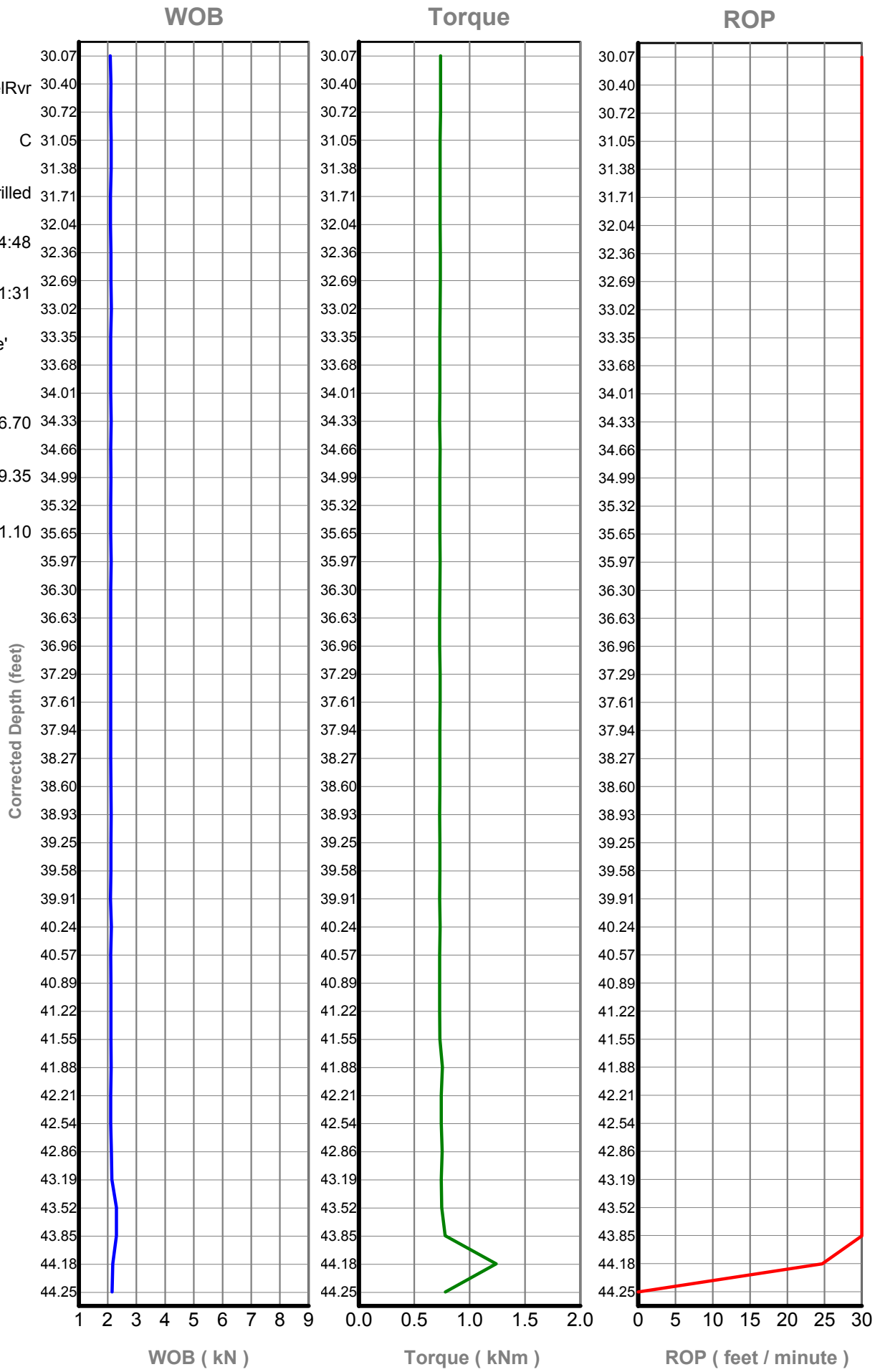
**End Date:**
4/13/2015 16:21:31

**Operator Note:**
'1.1 0.8 c Auto Complete'

**Northing:**
361,646.70

**Easting:**
244,489.35

**Tide (feet):**
1.10



## Hole: KCB-324-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 11:36:09 | 33.46 | 30.16 | 607 | 2.02 | 0.28 | 33.2 |
| 4/13/2015 11:36:09 | 33.79 | 30.49 | 610 | 2.03 | 0.28 | 33.4 |
| 4/13/2015 11:36:10 | 34.12 | 30.82 | 604 | 2.03 | 0.28 | 33.0 |
| 4/13/2015 11:36:10 | 34.45 | 31.15 | 611 | 2.02 | 0.28 | 33.4 |
| 4/13/2015 11:36:11 | 34.78 | 31.48 | 604 | 2.03 | 0.28 | 33.0 |
| 4/13/2015 11:36:11 | 35.11 | 31.81 | 610 | 2.03 | 0.28 | 33.4 |
| 4/13/2015 11:36:12 | 35.43 | 32.13 | 608 | 2.03 | 0.28 | 33.2 |
| 4/13/2015 11:36:13 | 35.76 | 32.46 | 606 | 2.02 | 0.28 | 33.2 |
| 4/13/2015 11:36:13 | 36.09 | 32.79 | 616 | 2.02 | 0.28 | 33.7 |
| 4/13/2015 11:36:14 | 36.42 | 33.12 | 613 | 2.02 | 0.28 | 33.5 |
| 4/13/2015 11:36:14 | 36.75 | 33.45 | 613 | 2.03 | 0.28 | 33.5 |
| 4/13/2015 11:36:15 | 37.07 | 33.77 | 609 | 2.02 | 0.28 | 33.3 |
| 4/13/2015 11:36:15 | 37.40 | 34.10 | 616 | 2.02 | 0.28 | 33.7 |
| 4/13/2015 11:36:16 | 37.73 | 34.43 | 607 | 2.03 | 0.28 | 33.2 |
| 4/13/2015 11:36:16 | 38.06 | 34.76 | 611 | 2.03 | 0.28 | 33.4 |
| 4/13/2015 11:36:17 | 38.39 | 35.09 | 617 | 2.03 | 0.29 | 33.8 |
| 4/13/2015 11:36:18 | 38.71 | 35.41 | 613 | 2.03 | 0.28 | 33.5 |
| 4/13/2015 11:36:19 | 39.04 | 35.74 | 616 | 2.03 | 0.28 | 33.7 |
| 4/13/2015 11:36:19 | 39.37 | 36.07 | 613 | 2.03 | 0.28 | 33.5 |
| 4/13/2015 11:36:20 | 39.70 | 36.40 | 616 | 2.03 | 0.28 | 33.7 |
| 4/13/2015 11:36:20 | 40.03 | 36.73 | 612 | 2.02 | 0.28 | 33.5 |
| 4/13/2015 11:36:21 | 40.35 | 37.05 | 613 | 2.03 | 0.28 | 33.5 |
| 4/13/2015 11:36:21 | 40.68 | 37.38 | 613 | 2.03 | 0.28 | 33.5 |
| 4/13/2015 11:36:22 | 41.01 | 37.71 | 617 | 2.03 | 0.28 | 33.7 |
| 4/13/2015 11:36:23 | 41.34 | 38.04 | 614 | 2.03 | 0.28 | 33.6 |
| 4/13/2015 11:36:23 | 41.67 | 38.37 | 610 | 2.02 | 0.29 | 33.3 |
| 4/13/2015 11:36:24 | 41.99 | 38.69 | 610 | 2.02 | 0.28 | 33.3 |
| 4/13/2015 11:36:24 | 42.32 | 39.02 | 610 | 2.04 | 0.28 | 33.3 |
| 4/13/2015 11:36:25 | 42.65 | 39.35 | 607 | 2.02 | 0.28 | 33.2 |
| 4/13/2015 11:36:25 | 42.98 | 39.68 | 604 | 2.03 | 0.28 | 33.0 |
| 4/13/2015 11:36:26 | 43.31 | 40.01 | 604 | 2.04 | 0.28 | 33.0 |
| 4/13/2015 11:36:27 | 43.64 | 40.34 | 585 | 2.03 | 0.28 | 32.0 |
| 4/13/2015 11:36:27 | 43.96 | 40.66 | 585 | 2.04 | 0.28 | 32.0 |
| 4/13/2015 11:36:28 | 44.29 | 40.99 | 593 | 2.04 | 0.28 | 32.4 |
| 4/13/2015 11:36:29 | 44.62 | 41.32 | 597 | 2.03 | 0.28 | 32.6 |
| 4/13/2015 11:36:29 | 44.95 | 41.65 | 590 | 2.03 | 0.28 | 32.3 |
| 4/13/2015 11:36:30 | 45.28 | 41.98 | 590 | 2.02 | 0.28 | 32.3 |
| 4/13/2015 11:36:30 | 45.60 | 42.30 | 609 | 2.02 | 0.27 | 33.3 |
| 4/13/2015 11:36:31 | 45.93 | 42.63 | 601 | 2.00 | 0.28 | 32.9 |
| 4/13/2015 11:36:32 | 46.26 | 42.96 | 597 | 2.03 | 0.28 | 32.7 |
| 4/13/2015 11:36:32 | 46.59 | 43.29 | 608 | 2.03 | 0.28 | 33.2 |
| 4/13/2015 11:36:33 | 46.92 | 43.62 | 608 | 2.03 | 0.28 | 33.2 |
| 4/13/2015 11:36:33 | 47.24 | 43.94 | 608 | 2.03 | 0.28 | 33.2 |
| 4/13/2015 11:36:34 | 47.57 | 44.27 | 607 | 2.04 | 0.28 | 33.2 |
| 4/13/2015 11:36:52 | 47.90 | 44.60 | 20 | 2.23 | 1.22 | 1.1 |
| 4/13/2015 11:40:09 | 48.23 | 44.93 | 61 | 2.23 | 1.29 | 3.3 |
| 4/13/2015 11:40:16 | 48.56 | 45.26 | 46 | 2.25 | 1.36 | 2.5 |
| 4/13/2015 11:41:01 | 48.88 | 45.58 | 24 | 2.07 | 1.15 | 1.3 |
| 4/13/2015 11:41:04 | 49.21 | 45.91 | 87 | 2.00 | 1.22 | 4.8 |
| 4/13/2015 11:41:08 | 49.54 | 46.24 | 115 | 1.97 | 1.18 | 6.3 |
| 4/13/2015 11:41:16 | 49.87 | 46.57 | 40 | 1.97 | 1.10 | 2.2 |
| 4/13/2015 11:41:25 | 50.20 | 46.90 | 37 | 2.00 | 1.23 | 2.0 |
| 4/13/2015 11:41:33 | 50.53 | 47.23 | 61 | 1.96 | 1.18 | 3.3 |
| 4/13/2015 11:41:40 | 50.85 | 47.55 | 49 | 1.98 | 1.26 | 2.7 |
| 4/13/2015 11:41:50 | 51.18 | 47.88 | 29 | 1.98 | 1.13 | 1.6 |
| 4/13/2015 11:41:59 | 51.51 | 48.21 | 46 | 1.99 | 1.14 | 2.5 |
| 4/13/2015 11:42:07 | 51.84 | 48.54 | 43 | 2.00 | 1.09 | 2.4 |
| 4/13/2015 11:42:16 | 52.17 | 48.87 | 43 | 2.00 | 1.15 | 2.4 |
| 4/13/2015 11:42:25 | 52.49 | 49.19 | 38 | 1.99 | 1.11 | 2.1 |
| 4/13/2015 11:42:59 | 52.82 | 49.52 | 43 | 1.95 | 1.17 | 2.4 |
| 4/13/2015 11:43:09 | 53.15 | 49.85 | 38 | 1.98 | 1.17 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/13/2015 | 11:43:19 | 53.48 | 50.18 | 37 | 1.98 | 1.21 | 2.0 |
| 4/13/2015 | 11:43:36 | 53.81 | 50.51 | 9 | 1.96 | 0.93 | 0.5 |
| 4/13/2015 | 11:43:45 | 54.13 | 50.83 | 29 | 1.98 | 1.03 | 1.6 |
| 4/13/2015 | 11:43:54 | 54.46 | 51.16 | 41 | 1.97 | 1.11 | 2.2 |
| 4/13/2015 | 11:44:03 | 54.79 | 51.49 | 37 | 1.96 | 1.06 | 2.0 |
| 4/13/2015 | 11:44:14 | 55.12 | 51.82 | 35 | 1.94 | 1.07 | 1.9 |
| 4/13/2015 | 11:44:21 | 55.45 | 52.15 | 57 | 1.95 | 1.08 | 3.1 |
| 4/13/2015 | 11:44:27 | 55.77 | 52.47 | 52 | 1.94 | 1.09 | 2.8 |
| 4/13/2015 | 11:44:36 | 56.10 | 52.80 | 34 | 1.93 | 1.07 | 1.9 |
| 4/13/2015 | 11:44:47 | 56.43 | 53.13 | 31 | 1.93 | 1.01 | 1.7 |
| 4/13/2015 | 11:44:58 | 56.76 | 53.46 | 32 | 1.94 | 1.14 | 1.8 |
| 4/13/2015 | 11:45:10 | 57.09 | 53.79 | 35 | 1.97 | 1.10 | 1.9 |
| 4/13/2015 | 11:46:21 | 57.29 | 53.99 | 41 | 2.40 | 1.19 | 2.3 |

## KCB-324-2 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 11:25:47

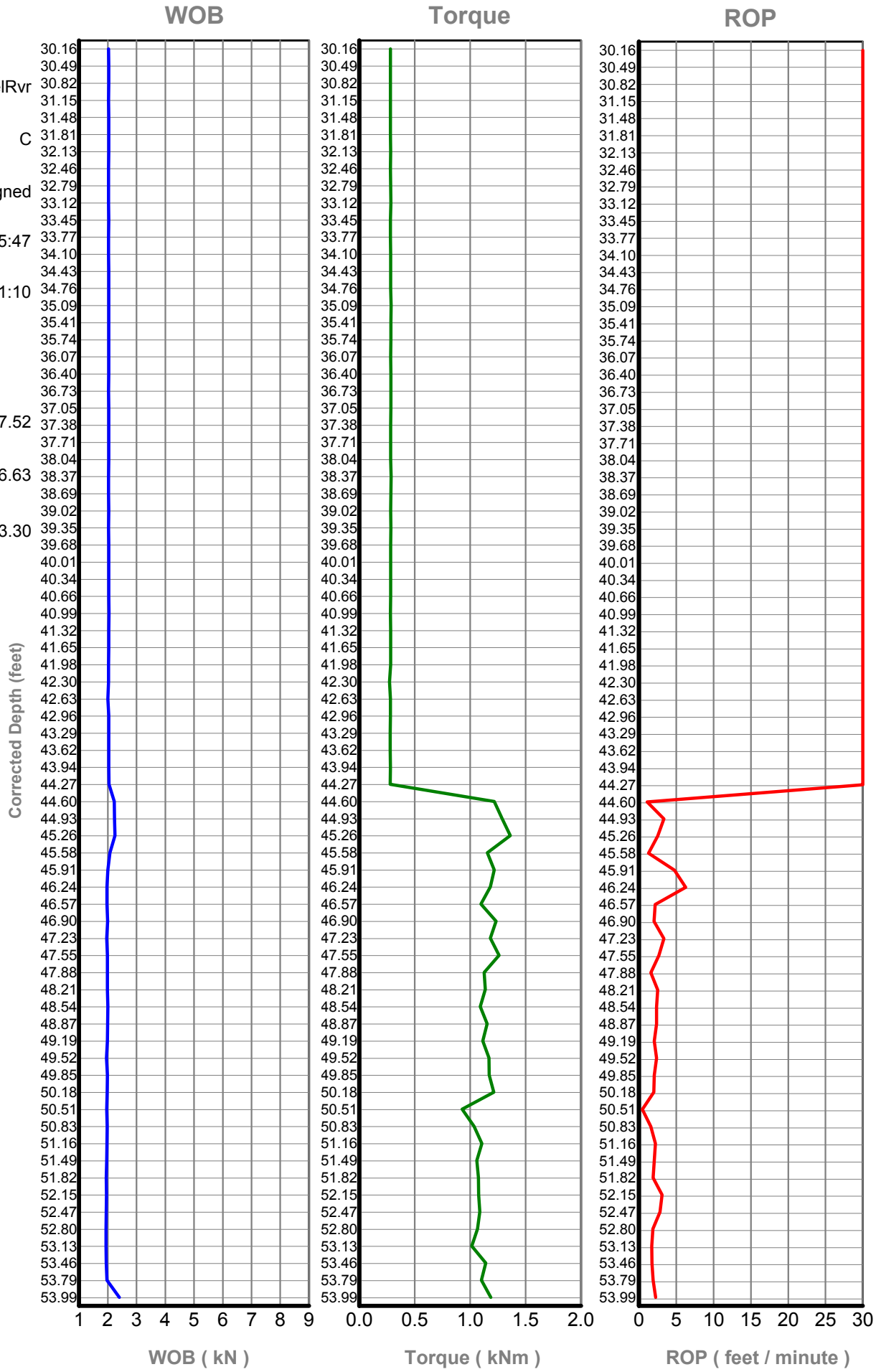
**End Date:**
4/13/2015 11:51:10

**Operator Note:**
'3.3 3.1 C Auto Complete'

**Northing:**
359,037.52

**Easting:**
243,116.63

**Tide (feet):**
3.30



## Hole: KCB-324-3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:31:44 | 30.51 | 30.11 | 896 | 2.12 | 0.26 | 49.0 |
| 4/13/2015 15:31:45 | 30.84 | 30.44 | 893 | 2.08 | 0.25 | 48.8 |
| 4/13/2015 15:31:45 | 31.17 | 30.77 | 887 | 2.10 | 0.25 | 48.5 |
| 4/13/2015 15:31:46 | 31.50 | 31.10 | 870 | 2.11 | 0.26 | 47.6 |
| 4/13/2015 15:31:46 | 31.82 | 31.42 | 870 | 2.11 | 0.26 | 47.6 |
| 4/13/2015 15:31:46 | 32.15 | 31.75 | 870 | 2.10 | 0.26 | 47.6 |
| 4/13/2015 15:31:47 | 32.48 | 32.08 | 880 | 2.11 | 0.26 | 48.1 |
| 4/13/2015 15:31:47 | 32.81 | 32.41 | 872 | 2.10 | 0.25 | 47.7 |
| 4/13/2015 15:31:48 | 33.14 | 32.74 | 872 | 2.10 | 0.25 | 47.7 |
| 4/13/2015 15:31:48 | 33.46 | 33.06 | 871 | 2.10 | 0.25 | 47.7 |
| 4/13/2015 15:31:48 | 33.79 | 33.39 | 875 | 2.10 | 0.26 | 47.8 |
| 4/13/2015 15:31:49 | 34.12 | 33.72 | 889 | 2.11 | 0.25 | 48.6 |
| 4/13/2015 15:31:49 | 34.45 | 34.05 | 882 | 2.11 | 0.25 | 48.2 |
| 4/13/2015 15:31:50 | 34.78 | 34.38 | 882 | 2.11 | 0.25 | 48.2 |
| 4/13/2015 15:31:50 | 35.11 | 34.71 | 882 | 2.11 | 0.25 | 48.2 |
| 4/13/2015 15:31:50 | 35.43 | 35.03 | 882 | 2.12 | 0.76 | 48.2 |
| 4/13/2015 15:31:51 | 35.76 | 35.36 | 879 | 2.10 | 0.77 | 48.1 |
| 4/13/2015 15:31:52 | 36.09 | 35.69 | 879 | 2.10 | 0.77 | 48.1 |
| 4/13/2015 15:31:52 | 36.42 | 36.02 | 876 | 2.10 | 0.78 | 47.9 |
| 4/13/2015 15:31:52 | 36.75 | 36.35 | 873 | 2.10 | 0.78 | 47.7 |
| 4/13/2015 15:31:53 | 37.07 | 36.67 | 876 | 2.10 | 0.78 | 47.9 |
| 4/13/2015 15:31:53 | 37.40 | 37.00 | 881 | 2.10 | 0.78 | 48.2 |
| 4/13/2015 15:31:54 | 37.73 | 37.33 | 881 | 2.10 | 0.78 | 48.2 |
| 4/13/2015 15:31:54 | 38.06 | 37.66 | 879 | 2.11 | 0.78 | 48.1 |
| 4/13/2015 15:31:54 | 38.39 | 37.99 | 882 | 2.12 | 0.78 | 48.2 |
| 4/13/2015 15:31:55 | 38.71 | 38.31 | 877 | 2.10 | 0.78 | 48.0 |
| 4/13/2015 15:31:55 | 39.04 | 38.64 | 877 | 2.10 | 0.78 | 48.0 |
| 4/13/2015 15:31:55 | 39.37 | 38.97 | 882 | 2.10 | 0.78 | 48.2 |
| 4/13/2015 15:31:56 | 39.70 | 39.30 | 877 | 2.10 | 0.78 | 47.9 |
| 4/13/2015 15:31:56 | 40.03 | 39.63 | 882 | 2.11 | 0.78 | 48.2 |
| 4/13/2015 15:31:57 | 40.35 | 39.95 | 882 | 2.10 | 0.78 | 48.2 |
| 4/13/2015 15:31:57 | 40.68 | 40.28 | 882 | 2.10 | 0.78 | 48.2 |
| 4/13/2015 15:31:57 | 41.01 | 40.61 | 884 | 2.08 | 0.78 | 48.3 |
| 4/13/2015 15:31:58 | 41.34 | 40.94 | 882 | 2.11 | 0.78 | 48.2 |
| 4/13/2015 15:31:58 | 41.67 | 41.27 | 879 | 2.10 | 0.78 | 48.1 |
| 4/13/2015 15:31:59 | 41.99 | 41.59 | 879 | 2.10 | 0.78 | 48.1 |
| 4/13/2015 15:31:59 | 42.32 | 41.92 | 871 | 2.10 | 0.77 | 47.6 |
| 4/13/2015 15:31:59 | 42.65 | 42.25 | 879 | 2.12 | 0.77 | 48.1 |
| 4/13/2015 15:32:00 | 42.98 | 42.58 | 885 | 2.10 | 0.77 | 48.4 |
| 4/13/2015 15:32:00 | 43.31 | 42.91 | 876 | 2.10 | 0.77 | 47.9 |
| 4/13/2015 15:32:01 | 43.64 | 43.24 | 876 | 2.10 | 0.77 | 47.9 |
| 4/13/2015 15:32:01 | 43.96 | 43.56 | 882 | 2.12 | 0.77 | 48.2 |
| 4/13/2015 15:32:01 | 44.29 | 43.89 | 868 | 2.10 | 0.77 | 47.4 |
| 4/13/2015 15:32:02 | 44.62 | 44.22 | 868 | 2.11 | 0.77 | 47.4 |
| 4/13/2015 15:32:03 | 44.95 | 44.55 | 868 | 2.09 | 0.77 | 47.4 |
| 4/13/2015 15:32:03 | 45.28 | 44.88 | 868 | 2.09 | 0.77 | 47.4 |
| 4/13/2015 15:32:03 | 45.60 | 45.20 | 868 | 2.11 | 0.77 | 47.4 |
| 4/13/2015 15:32:04 | 45.93 | 45.53 | 862 | 2.11 | 0.79 | 47.1 |
| 4/13/2015 15:32:04 | 46.26 | 45.86 | 861 | 2.12 | 0.78 | 47.1 |
| 4/13/2015 15:32:05 | 46.59 | 46.19 | 872 | 2.10 | 0.77 | 47.7 |
| 4/13/2015 15:32:05 | 46.92 | 46.52 | 872 | 2.10 | 0.77 | 47.7 |
| 4/13/2015 15:32:11 | 47.17 | 46.77 | 6 | 2.34 | 1.11 | 0.3 |

## KCB-324-3 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 15:28:50

**End Date:**
4/13/2015 15:33:42

**Operator Note:**
'0.4 0.4 Auto Complete'

**Northing:**
361,623.84

**Easting:**
244,462.08

**Tide (feet):**
0.40



## Hole: KCB-324-4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 12:17:46 | 32.81 | 30.11 | 865 | 2.14 | 0.29 | 47.3 |
| 4/13/2015 12:17:46 | 33.14 | 30.44 | 865 | 2.13 | 0.29 | 47.3 |
| 4/13/2015 12:17:47 | 33.46 | 30.76 | 903 | 2.14 | 0.29 | 49.4 |
| 4/13/2015 12:17:48 | 33.79 | 31.09 | 903 | 2.14 | 0.29 | 49.4 |
| 4/13/2015 12:17:48 | 34.12 | 31.42 | 900 | 2.14 | 0.28 | 49.2 |
| 4/13/2015 12:17:48 | 34.45 | 31.75 | 900 | 2.13 | 0.29 | 49.2 |
| 4/13/2015 12:17:49 | 34.78 | 32.08 | 889 | 2.14 | 0.28 | 48.6 |
| 4/13/2015 12:17:49 | 35.11 | 32.41 | 889 | 2.14 | 0.28 | 48.6 |
| 4/13/2015 12:17:49 | 35.43 | 32.73 | 916 | 2.12 | 0.29 | 50.1 |
| 4/13/2015 12:17:50 | 35.76 | 33.06 | 899 | 2.14 | 0.28 | 49.2 |
| 4/13/2015 12:17:50 | 36.09 | 33.39 | 896 | 2.14 | 0.28 | 49.0 |
| 4/13/2015 12:17:51 | 36.42 | 33.72 | 896 | 2.14 | 0.28 | 49.0 |
| 4/13/2015 12:17:51 | 36.75 | 34.05 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:17:51 | 37.07 | 34.37 | 899 | 2.12 | 0.28 | 49.2 |
| 4/13/2015 12:17:52 | 37.40 | 34.70 | 902 | 2.16 | 0.28 | 49.3 |
| 4/13/2015 12:17:52 | 37.73 | 35.03 | 902 | 2.16 | 0.28 | 49.3 |
| 4/13/2015 12:17:52 | 38.06 | 35.36 | 902 | 2.14 | 0.28 | 49.3 |
| 4/13/2015 12:17:53 | 38.39 | 35.69 | 905 | 2.14 | 0.28 | 49.5 |
| 4/13/2015 12:17:53 | 38.71 | 36.01 | 905 | 2.14 | 0.28 | 49.5 |
| 4/13/2015 12:17:54 | 39.04 | 36.34 | 905 | 2.14 | 0.28 | 49.5 |
| 4/13/2015 12:17:54 | 39.37 | 36.67 | 902 | 2.14 | 0.28 | 49.3 |
| 4/13/2015 12:17:54 | 39.70 | 37.00 | 902 | 2.14 | 0.28 | 49.3 |
| 4/13/2015 12:17:55 | 40.03 | 37.33 | 896 | 2.14 | 0.28 | 49.0 |
| 4/13/2015 12:17:55 | 40.35 | 37.65 | 896 | 2.14 | 0.28 | 49.0 |
| 4/13/2015 12:17:55 | 40.68 | 37.98 | 905 | 2.10 | 0.28 | 49.5 |
| 4/13/2015 12:17:56 | 41.01 | 38.31 | 902 | 2.14 | 0.28 | 49.3 |
| 4/13/2015 12:17:56 | 41.34 | 38.64 | 899 | 2.14 | 0.28 | 49.2 |
| 4/13/2015 12:17:57 | 41.67 | 38.97 | 899 | 2.14 | 0.28 | 49.2 |
| 4/13/2015 12:17:58 | 41.99 | 39.29 | 899 | 2.14 | 0.28 | 49.2 |
| 4/13/2015 12:17:58 | 42.32 | 39.62 | 902 | 2.14 | 0.28 | 49.3 |
| 4/13/2015 12:17:58 | 42.65 | 39.95 | 899 | 2.16 | 0.28 | 49.2 |
| 4/13/2015 12:17:59 | 42.98 | 40.28 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:17:59 | 43.31 | 40.61 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:17:59 | 43.64 | 40.94 | 895 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:18:00 | 43.96 | 41.26 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:18:00 | 44.29 | 41.59 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:18:01 | 44.62 | 41.92 | 894 | 2.14 | 0.28 | 48.9 |
| 4/13/2015 12:18:01 | 44.95 | 42.25 | 886 | 2.14 | 0.28 | 48.4 |
| 4/13/2015 12:18:01 | 45.28 | 42.58 | 887 | 2.14 | 0.28 | 48.5 |
| 4/13/2015 12:18:02 | 45.60 | 42.90 | 890 | 2.14 | 0.28 | 48.7 |
| 4/13/2015 12:18:02 | 45.93 | 43.23 | 890 | 2.15 | 0.28 | 48.7 |
| 4/13/2015 12:18:03 | 46.26 | 43.56 | 890 | 2.15 | 0.28 | 48.7 |
| 4/13/2015 12:18:03 | 46.59 | 43.89 | 878 | 2.15 | 0.28 | 48.0 |
| 4/13/2015 12:18:03 | 46.92 | 44.22 | 889 | 2.14 | 0.28 | 48.6 |
| 4/13/2015 12:18:04 | 47.24 | 44.54 | 894 | 2.23 | 0.28 | 48.9 |
| 4/13/2015 12:18:14 | 47.53 | 44.83 | 12 | 2.40 | 1.48 | 0.6 |

## KCB-324-4 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 11:52:02

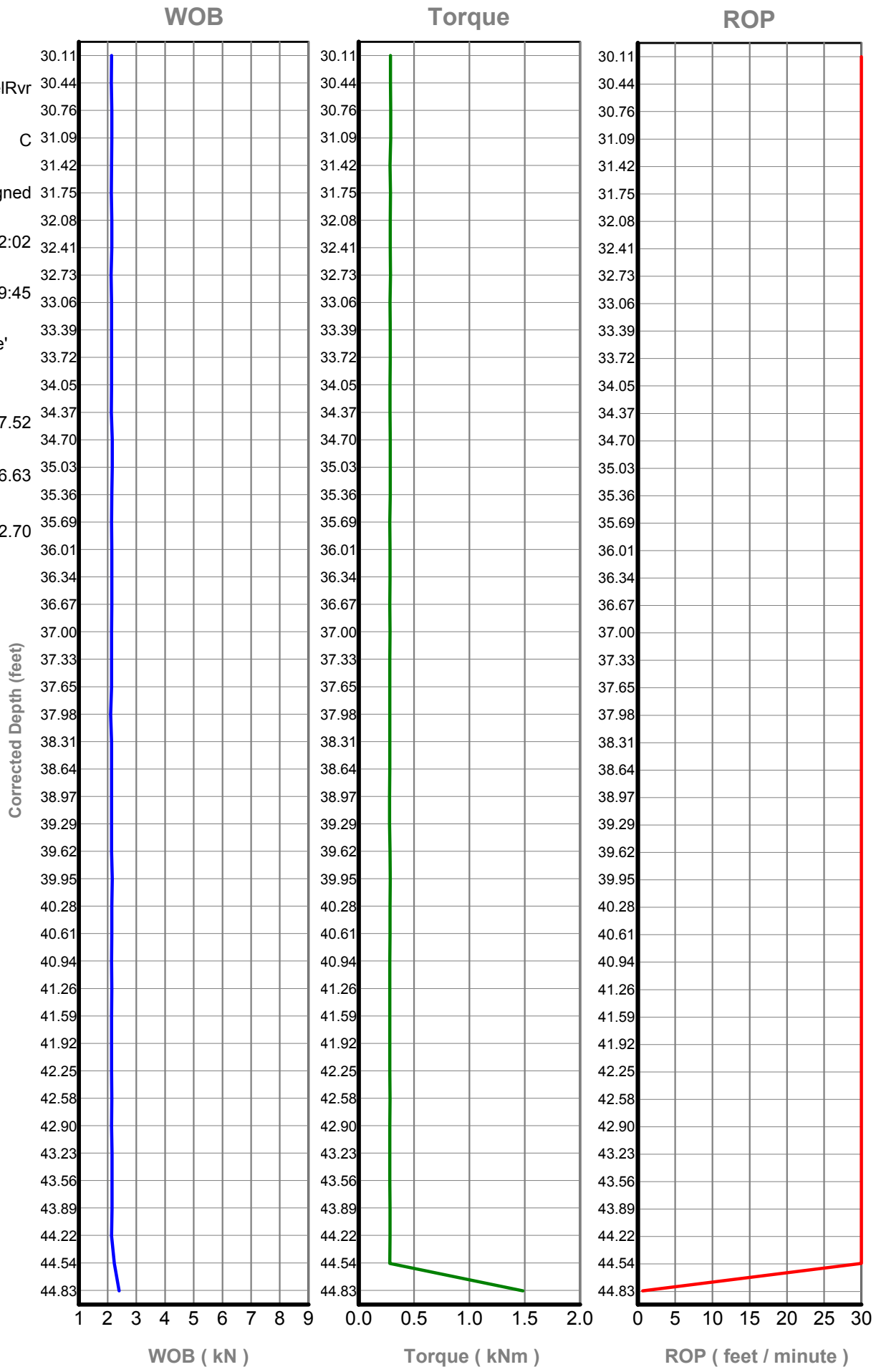
**End Date:**
4/13/2015 12:19:45

**Operator Note:**
'2.7 2.6 c Auto Complete'

**Northing:**
359,037.52

**Easting:**
243,116.63

**Tide (feet):**
2.70



## Hole: KCB-324-5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:39:50 | 30.51 | 30.11 | 893 | 2.11 | 0.77 | 48.8 |
| 4/13/2015 15:39:51 | 30.84 | 30.44 | 871 | 2.11 | 0.77 | 47.6 |
| 4/13/2015 15:39:51 | 31.17 | 30.77 | 871 | 2.10 | 0.77 | 47.6 |
| 4/13/2015 15:39:52 | 31.50 | 31.10 | 880 | 2.10 | 0.77 | 48.1 |
| 4/13/2015 15:39:52 | 31.82 | 31.42 | 880 | 2.10 | 0.77 | 48.1 |
| 4/13/2015 15:39:52 | 32.15 | 31.75 | 872 | 2.10 | 0.77 | 47.7 |
| 4/13/2015 15:39:53 | 32.48 | 32.08 | 877 | 2.12 | 0.76 | 48.0 |
| 4/13/2015 15:39:53 | 32.81 | 32.41 | 868 | 2.12 | 0.76 | 47.5 |
| 4/13/2015 15:39:54 | 33.14 | 32.74 | 868 | 2.12 | 0.76 | 47.5 |
| 4/13/2015 15:39:54 | 33.46 | 33.06 | 896 | 2.09 | 0.76 | 49.0 |
| 4/13/2015 15:39:54 | 33.79 | 33.39 | 877 | 2.11 | 0.77 | 47.9 |
| 4/13/2015 15:39:55 | 34.12 | 33.72 | 879 | 2.12 | 0.77 | 48.0 |
| 4/13/2015 15:39:55 | 34.45 | 34.05 | 873 | 2.03 | 0.76 | 47.7 |
| 4/13/2015 15:39:56 | 34.78 | 34.38 | 873 | 2.03 | 0.76 | 47.7 |
| 4/13/2015 15:39:56 | 35.11 | 34.71 | 879 | 2.12 | 0.76 | 48.1 |
| 4/13/2015 15:39:56 | 35.43 | 35.03 | 876 | 2.11 | 0.77 | 47.9 |
| 4/13/2015 15:39:57 | 35.76 | 35.36 | 873 | 2.13 | 0.76 | 47.7 |
| 4/13/2015 15:39:57 | 36.09 | 35.69 | 873 | 2.12 | 0.76 | 47.7 |
| 4/13/2015 15:39:58 | 36.42 | 36.02 | 873 | 2.12 | 0.76 | 47.7 |
| 4/13/2015 15:39:58 | 36.75 | 36.35 | 873 | 2.11 | 0.77 | 47.7 |
| 4/13/2015 15:39:58 | 37.07 | 36.67 | 864 | 2.10 | 0.76 | 47.3 |
| 4/13/2015 15:39:59 | 37.40 | 37.00 | 870 | 2.08 | 0.76 | 47.6 |
| 4/13/2015 15:39:59 | 37.73 | 37.33 | 870 | 2.08 | 0.76 | 47.6 |
| 4/13/2015 15:39:59 | 38.06 | 37.66 | 873 | 2.10 | 0.76 | 47.8 |
| 4/13/2015 15:40:00 | 38.39 | 37.99 | 879 | 2.11 | 0.77 | 48.1 |
| 4/13/2015 15:40:00 | 38.71 | 38.31 | 876 | 2.11 | 0.76 | 47.9 |
| 4/13/2015 15:40:01 | 39.04 | 38.64 | 879 | 2.11 | 0.76 | 48.1 |
| 4/13/2015 15:40:02 | 39.37 | 38.97 | 879 | 2.11 | 0.76 | 48.1 |
| 4/13/2015 15:40:02 | 39.70 | 39.30 | 863 | 2.17 | 0.76 | 47.2 |
| 4/13/2015 15:40:02 | 40.03 | 39.63 | 880 | 2.10 | 0.76 | 48.1 |
| 4/13/2015 15:40:03 | 40.35 | 39.95 | 877 | 2.12 | 0.75 | 47.9 |
| 4/13/2015 15:40:03 | 40.68 | 40.28 | 877 | 2.12 | 0.75 | 47.9 |
| 4/13/2015 15:40:03 | 41.01 | 40.61 | 877 | 2.12 | 0.75 | 47.9 |
| 4/13/2015 15:40:04 | 41.34 | 40.94 | 877 | 2.10 | 0.75 | 47.9 |
| 4/13/2015 15:40:04 | 41.67 | 41.27 | 884 | 2.11 | 0.75 | 48.4 |
| 4/13/2015 15:40:05 | 41.99 | 41.59 | 876 | 2.10 | 0.74 | 47.9 |
| 4/13/2015 15:40:05 | 42.32 | 41.92 | 876 | 2.10 | 0.74 | 47.9 |
| 4/13/2015 15:40:05 | 42.65 | 42.25 | 873 | 2.11 | 0.74 | 47.7 |
| 4/13/2015 15:40:06 | 42.98 | 42.58 | 868 | 2.08 | 0.74 | 47.4 |
| 4/13/2015 15:40:06 | 43.31 | 42.91 | 876 | 2.11 | 0.74 | 47.9 |
| 4/13/2015 15:40:07 | 43.64 | 43.24 | 876 | 2.11 | 0.74 | 47.9 |
| 4/13/2015 15:40:07 | 43.96 | 43.56 | 876 | 2.11 | 0.74 | 47.9 |
| 4/13/2015 15:40:07 | 44.29 | 43.89 | 873 | 2.11 | 0.74 | 47.7 |
| 4/13/2015 15:40:08 | 44.62 | 44.22 | 873 | 2.10 | 0.73 | 47.7 |
| 4/13/2015 15:40:08 | 44.95 | 44.55 | 876 | 2.12 | 0.73 | 47.9 |
| 4/13/2015 15:40:09 | 45.28 | 44.88 | 876 | 2.12 | 0.73 | 47.9 |
| 4/13/2015 15:40:09 | 45.60 | 45.20 | 856 | 2.13 | 0.73 | 46.8 |
| 4/13/2015 15:40:09 | 45.93 | 45.53 | 855 | 2.11 | 0.73 | 46.8 |
| 4/13/2015 15:40:10 | 46.26 | 45.86 | 857 | 2.10 | 0.73 | 46.9 |
| 4/13/2015 15:40:10 | 46.59 | 46.19 | 865 | 2.11 | 0.73 | 47.3 |
| 4/13/2015 15:40:11 | 46.92 | 46.52 | 865 | 2.11 | 0.73 | 47.3 |
| 4/13/2015 15:40:14 | 47.24 | 46.84 | 123 | 2.20 | 0.96 | 6.7 |
| 4/13/2015 15:40:19 | 47.33 | 46.93 | 0 | 2.34 | 1.25 | 0.0 |

## KCB-324-5 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/13/2015 15:38:29

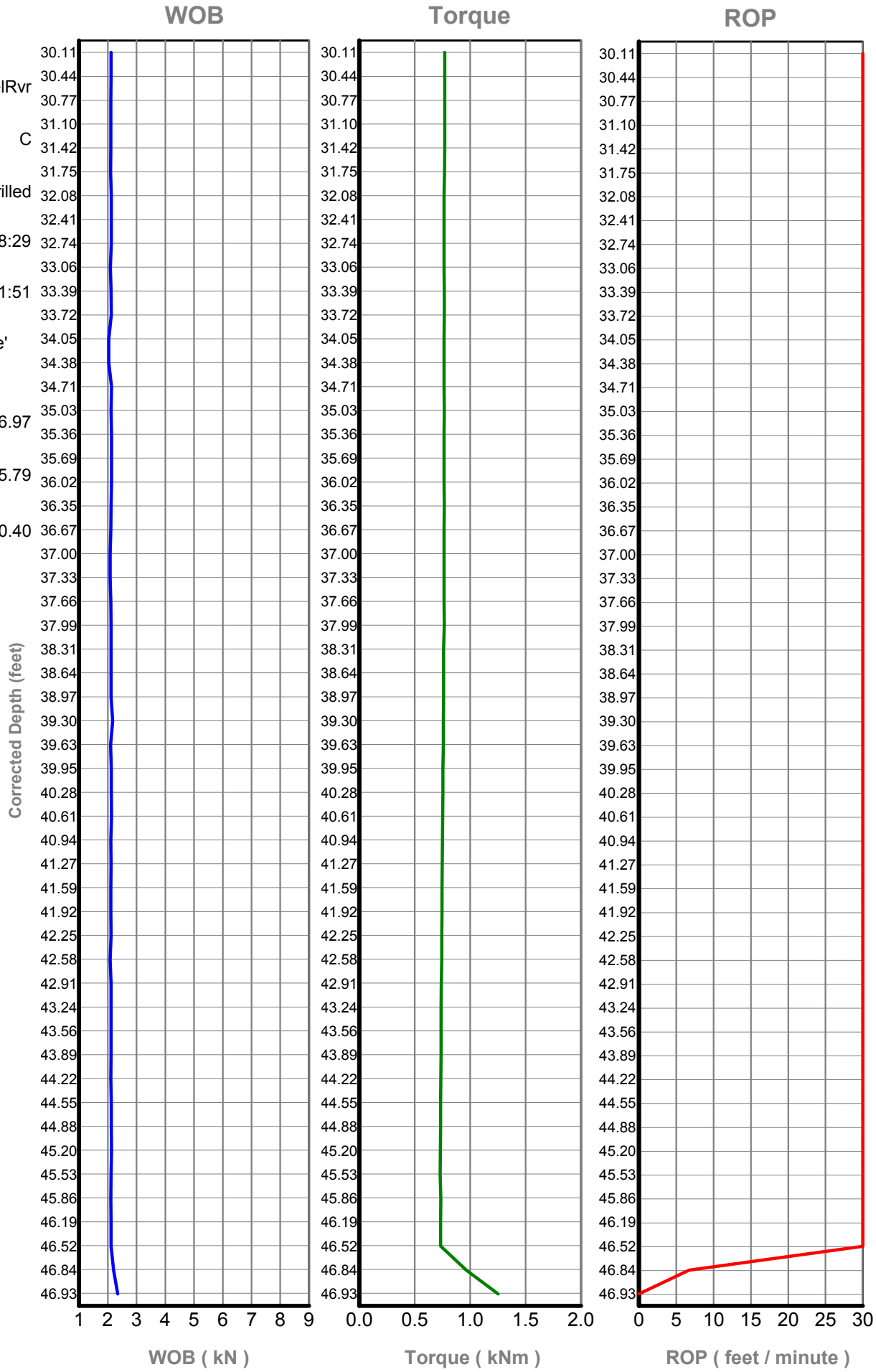
**End Date:**
4/13/2015 15:41:51

**Operator Note:**
'0.4 0.3 c Auto Complete'

**Northing:**
361,626.97

**Easting:**
244,465.79

**Tide (feet):**
0.40



## Hole: KCB-324-6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 12:27:13 | 32.48 | 30.18 | 886 | 2.14 | 0.99 | 48.5 |
| 4/13/2015 12:27:14 | 32.81 | 30.51 | 908 | 2.14 | 0.99 | 49.7 |
| 4/13/2015 12:27:14 | 33.14 | 30.84 | 897 | 2.13 | 0.99 | 49.0 |
| 4/13/2015 12:27:15 | 33.46 | 31.16 | 897 | 2.13 | 0.99 | 49.0 |
| 4/13/2015 12:27:15 | 33.79 | 31.49 | 900 | 2.15 | 0.98 | 49.2 |
| 4/13/2015 12:27:15 | 34.12 | 31.82 | 897 | 2.14 | 0.98 | 49.1 |
| 4/13/2015 12:27:16 | 34.45 | 32.15 | 908 | 2.14 | 0.98 | 49.6 |
| 4/13/2015 12:27:16 | 34.78 | 32.48 | 908 | 2.14 | 0.98 | 49.6 |
| 4/13/2015 12:27:16 | 35.11 | 32.81 | 899 | 2.12 | 0.98 | 49.2 |
| 4/13/2015 12:27:17 | 35.43 | 33.13 | 899 | 2.14 | 0.98 | 49.2 |
| 4/13/2015 12:27:17 | 35.76 | 33.46 | 893 | 2.14 | 0.98 | 48.9 |
| 4/13/2015 12:27:18 | 36.09 | 33.79 | 893 | 2.14 | 0.98 | 48.9 |
| 4/13/2015 12:27:18 | 36.42 | 34.12 | 902 | 2.14 | 0.97 | 49.3 |
| 4/13/2015 12:27:18 | 36.75 | 34.45 | 896 | 2.14 | 0.97 | 49.0 |
| 4/13/2015 12:27:19 | 37.07 | 34.77 | 896 | 2.12 | 0.97 | 49.0 |
| 4/13/2015 12:27:20 | 37.40 | 35.10 | 896 | 2.13 | 0.97 | 49.0 |
| 4/13/2015 12:27:20 | 37.73 | 35.43 | 896 | 2.13 | 0.97 | 49.0 |
| 4/13/2015 12:27:20 | 38.06 | 35.76 | 899 | 2.14 | 0.96 | 49.2 |
| 4/13/2015 12:27:21 | 38.39 | 36.09 | 893 | 2.14 | 0.96 | 48.8 |
| 4/13/2015 12:27:21 | 38.71 | 36.41 | 892 | 2.14 | 0.96 | 48.8 |
| 4/13/2015 12:27:22 | 39.04 | 36.74 | 892 | 2.14 | 0.96 | 48.8 |
| 4/13/2015 12:27:22 | 39.37 | 37.07 | 888 | 2.14 | 0.96 | 48.6 |
| 4/13/2015 12:27:22 | 39.70 | 37.40 | 886 | 2.13 | 0.95 | 48.4 |
| 4/13/2015 12:27:23 | 40.03 | 37.73 | 886 | 2.14 | 0.95 | 48.4 |
| 4/13/2015 12:27:23 | 40.35 | 38.05 | 886 | 2.14 | 0.95 | 48.4 |
| 4/13/2015 12:27:23 | 40.68 | 38.38 | 883 | 2.14 | 0.94 | 48.3 |
| 4/13/2015 12:27:24 | 41.01 | 38.71 | 887 | 2.18 | 0.98 | 48.5 |
| 4/13/2015 12:27:24 | 41.34 | 39.04 | 870 | 2.29 | 1.19 | 47.6 |
| 4/13/2015 12:27:42 | 41.56 | 39.26 | 9 | 2.38 | 1.16 | 0.5 |

## KCB-324-6 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 12:22:52

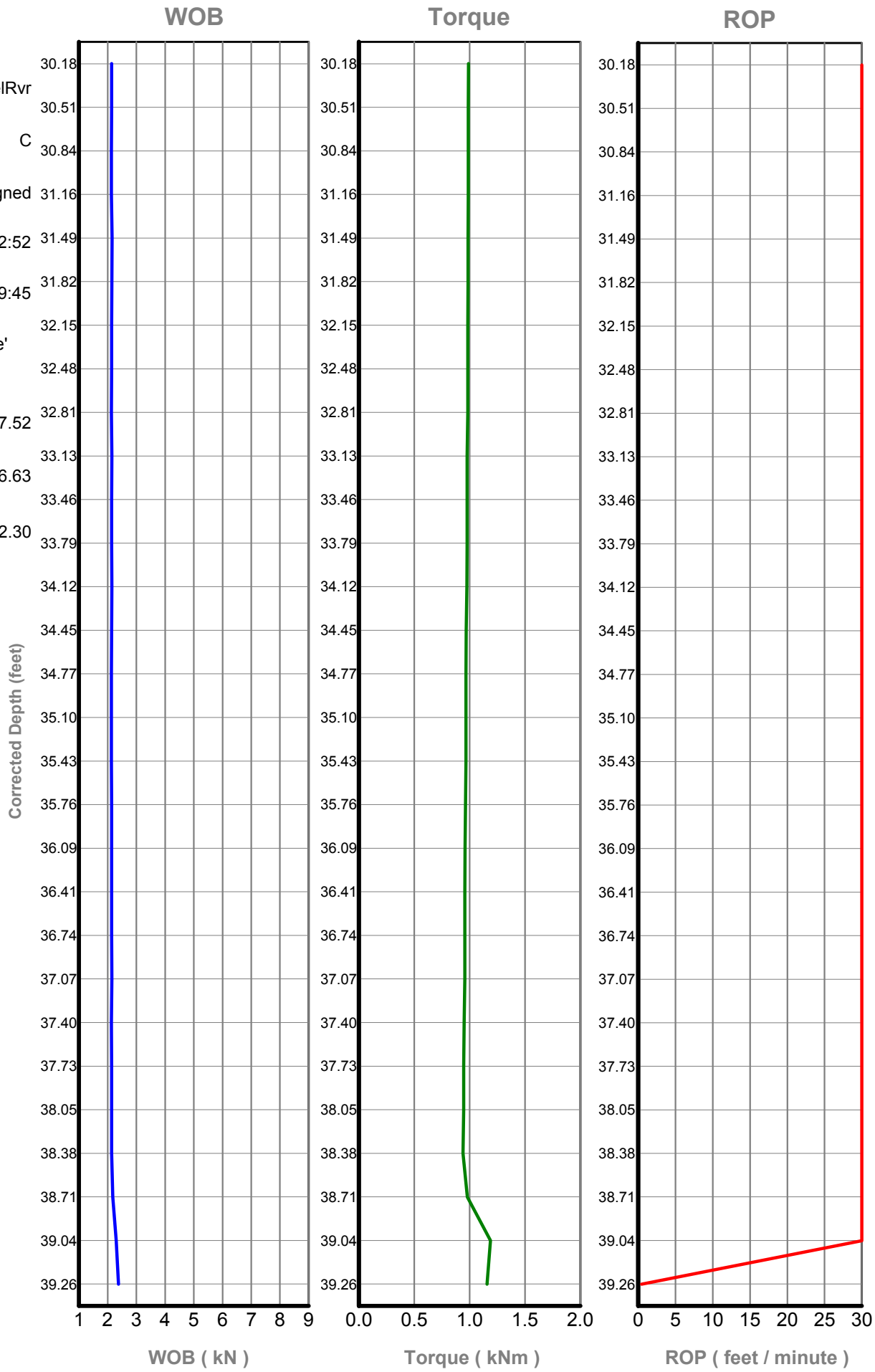
**End Date:**
4/13/2015 12:29:45

**Operator Note:**
'2.3 2.3 c Auto Complete'

**Northing:**
359,037.52

**Easting:**
243,116.63

**Tide (feet):**
2.30



## Hole: KCB-324-6a - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 12:34:40 | 32.15 | 30.05 | 908 | 2.14 | 0.29 | 49.6 |
| 4/13/2015 12:34:40 | 32.48 | 30.38 | 905 | 2.13 | 0.29 | 49.5 |
| 4/13/2015 12:34:41 | 32.81 | 30.71 | 910 | 2.12 | 0.29 | 49.8 |
| 4/13/2015 12:34:41 | 33.14 | 31.04 | 908 | 2.14 | 0.29 | 49.6 |
| 4/13/2015 12:34:42 | 33.46 | 31.36 | 908 | 2.14 | 0.29 | 49.6 |
| 4/13/2015 12:34:42 | 33.79 | 31.69 | 911 | 2.14 | 0.29 | 49.8 |
| 4/13/2015 12:34:42 | 34.12 | 32.02 | 911 | 2.14 | 0.85 | 49.8 |
| 4/13/2015 12:34:43 | 34.45 | 32.35 | 913 | 2.14 | 0.87 | 49.9 |
| 4/13/2015 12:34:43 | 34.78 | 32.68 | 913 | 2.14 | 0.87 | 49.9 |
| 4/13/2015 12:34:43 | 35.11 | 33.01 | 908 | 2.14 | 0.88 | 49.6 |
| 4/13/2015 12:34:44 | 35.43 | 33.33 | 905 | 2.13 | 0.88 | 49.5 |
| 4/13/2015 12:34:44 | 35.76 | 33.66 | 899 | 2.14 | 0.88 | 49.2 |
| 4/13/2015 12:34:45 | 36.09 | 33.99 | 899 | 2.14 | 0.88 | 49.2 |
| 4/13/2015 12:34:45 | 36.42 | 34.32 | 899 | 2.14 | 0.89 | 49.2 |
| 4/13/2015 12:34:45 | 36.75 | 34.65 | 905 | 2.14 | 0.88 | 49.5 |
| 4/13/2015 12:34:46 | 37.07 | 34.97 | 911 | 2.14 | 0.89 | 49.8 |
| 4/13/2015 12:34:47 | 37.40 | 35.30 | 911 | 2.14 | 0.89 | 49.8 |
| 4/13/2015 12:34:47 | 37.73 | 35.63 | 913 | 2.13 | 0.89 | 50.0 |
| 4/13/2015 12:34:47 | 38.06 | 35.96 | 911 | 2.14 | 0.89 | 49.8 |
| 4/13/2015 12:34:48 | 38.39 | 36.29 | 919 | 2.23 | 0.89 | 50.3 |
| 4/13/2015 12:34:48 | 38.71 | 36.61 | 919 | 2.23 | 0.89 | 50.3 |
| 4/13/2015 12:34:48 | 39.04 | 36.94 | 911 | 2.13 | 0.89 | 49.8 |
| 4/13/2015 12:34:49 | 39.37 | 37.27 | 909 | 2.15 | 0.89 | 49.7 |
| 4/13/2015 12:34:49 | 39.70 | 37.60 | 892 | 2.12 | 0.89 | 48.8 |
| 4/13/2015 12:34:50 | 40.03 | 37.93 | 892 | 2.12 | 0.89 | 48.8 |
| 4/13/2015 12:34:50 | 40.35 | 38.25 | 892 | 2.14 | 0.89 | 48.8 |
| 4/13/2015 12:34:50 | 40.68 | 38.58 | 912 | 2.14 | 0.89 | 49.9 |
| 4/13/2015 12:34:51 | 41.01 | 38.91 | 904 | 2.13 | 0.89 | 49.4 |
| 4/13/2015 12:34:51 | 41.34 | 39.24 | 904 | 2.13 | 0.89 | 49.4 |
| 4/13/2015 12:34:51 | 41.67 | 39.57 | 907 | 2.14 | 0.88 | 49.6 |
| 4/13/2015 12:34:52 | 41.99 | 39.89 | 906 | 2.14 | 0.88 | 49.5 |
| 4/13/2015 12:34:52 | 42.32 | 40.22 | 923 | 2.14 | 0.88 | 50.4 |
| 4/13/2015 12:34:53 | 42.65 | 40.55 | 923 | 2.14 | 0.88 | 50.4 |
| 4/13/2015 12:34:53 | 42.98 | 40.88 | 905 | 2.14 | 0.88 | 49.5 |
| 4/13/2015 12:34:53 | 43.31 | 41.21 | 913 | 2.14 | 0.88 | 49.9 |
| 4/13/2015 12:34:54 | 43.64 | 41.54 | 908 | 2.14 | 0.88 | 49.6 |
| 4/13/2015 12:34:54 | 43.96 | 41.86 | 908 | 2.14 | 0.88 | 49.6 |
| 4/13/2015 12:34:54 | 44.29 | 42.19 | 908 | 2.13 | 0.88 | 49.6 |
| 4/13/2015 12:34:55 | 44.62 | 42.52 | 900 | 2.14 | 0.87 | 49.2 |
| 4/13/2015 12:34:55 | 44.95 | 42.85 | 902 | 2.13 | 0.87 | 49.3 |
| 4/13/2015 12:34:56 | 45.28 | 43.18 | 902 | 2.13 | 0.87 | 49.3 |
| 4/13/2015 12:34:56 | 45.60 | 43.50 | 896 | 2.14 | 0.87 | 49.0 |
| 4/13/2015 12:34:56 | 45.93 | 43.83 | 899 | 2.12 | 0.87 | 49.2 |
| 4/13/2015 12:34:57 | 46.26 | 44.16 | 897 | 2.13 | 0.87 | 49.0 |
| 4/13/2015 12:34:58 | 46.59 | 44.49 | 904 | 2.38 | 1.29 | 49.5 |
| 4/13/2015 12:35:02 | 46.71 | 44.61 | 18 | 2.38 | 1.18 | 1.0 |

## KCB-324-6a - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/13/2015 12:33:06

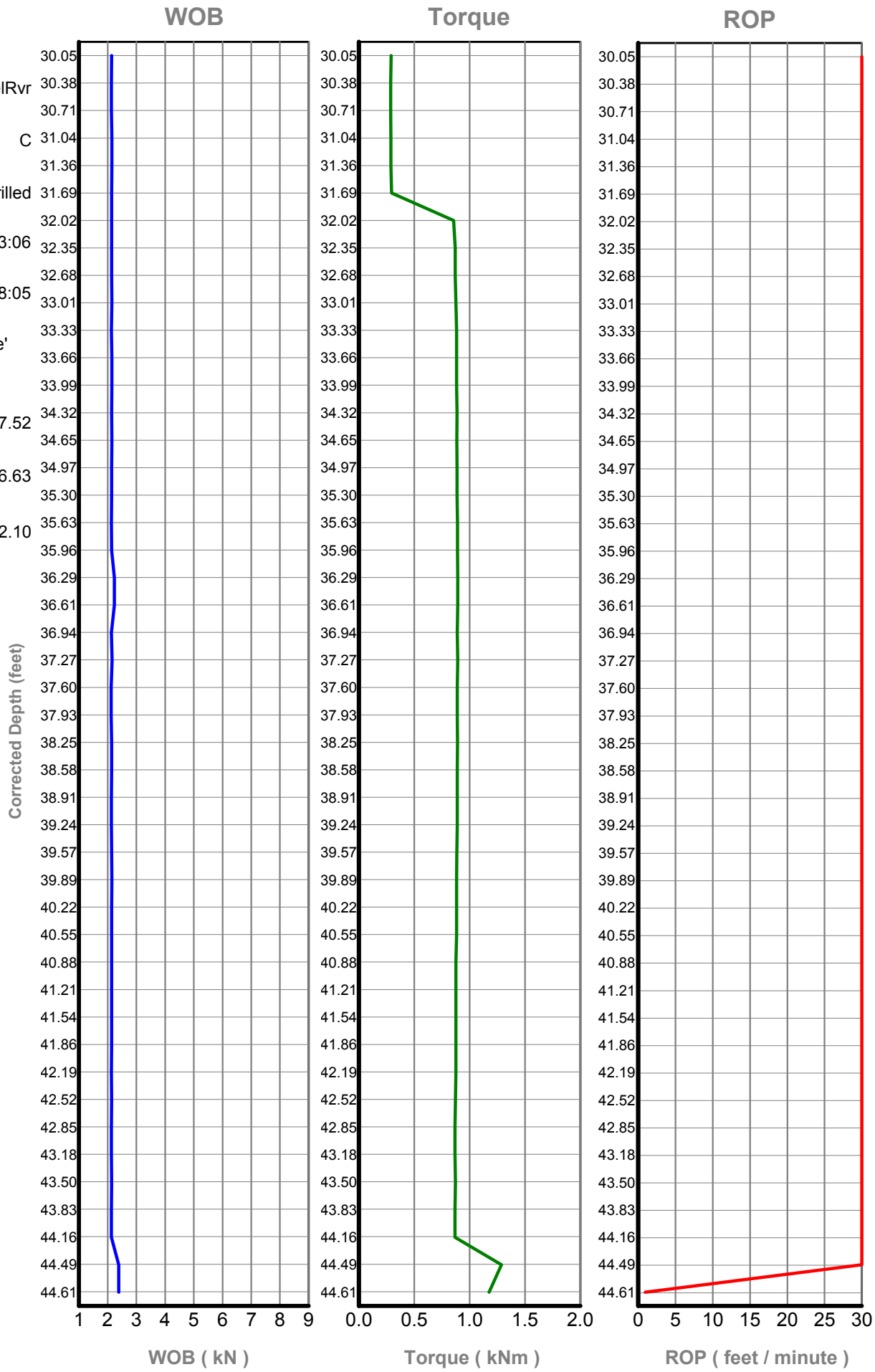
**End Date:**
4/13/2015 12:38:05

**Operator Note:**
'2.1 2.2 c Auto Complete'

**Northing:**
359,037.52

**Easting:**
243,116.63

**Tide (feet):**
2.10



## Hole: KCB-324-7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 15:46:24 | 30.51 | 30.01 | 871 | 2.11 | 0.74 | 47.6 |
| 4/13/2015 15:46:24 | 30.84 | 30.34 | 887 | 2.10 | 0.74 | 48.5 |
| 4/13/2015 15:46:25 | 31.17 | 30.67 | 869 | 2.11 | 0.74 | 47.5 |
| 4/13/2015 15:46:26 | 31.50 | 31.00 | 869 | 2.11 | 0.74 | 47.5 |
| 4/13/2015 15:46:26 | 31.82 | 31.32 | 861 | 2.10 | 0.74 | 47.1 |
| 4/13/2015 15:46:26 | 32.15 | 31.65 | 861 | 2.09 | 0.74 | 47.1 |
| 4/13/2015 15:46:27 | 32.48 | 31.98 | 905 | 2.12 | 0.74 | 49.5 |
| 4/13/2015 15:46:27 | 32.81 | 32.31 | 905 | 2.12 | 0.74 | 49.5 |
| 4/13/2015 15:46:27 | 33.14 | 32.64 | 911 | 2.10 | 0.74 | 49.8 |
| 4/13/2015 15:46:28 | 33.46 | 32.96 | 883 | 2.10 | 0.74 | 48.3 |
| 4/13/2015 15:46:28 | 33.79 | 33.29 | 902 | 2.11 | 0.74 | 49.3 |
| 4/13/2015 15:46:29 | 34.12 | 33.62 | 902 | 2.11 | 0.74 | 49.3 |
| 4/13/2015 15:46:29 | 34.45 | 33.95 | 900 | 2.10 | 0.74 | 49.2 |
| 4/13/2015 15:46:29 | 34.78 | 34.28 | 881 | 2.10 | 0.73 | 48.2 |
| 4/13/2015 15:46:30 | 35.11 | 34.61 | 870 | 2.09 | 0.73 | 47.6 |
| 4/13/2015 15:46:30 | 35.43 | 34.93 | 870 | 2.09 | 0.73 | 47.6 |
| 4/13/2015 15:46:30 | 35.76 | 35.26 | 879 | 2.08 | 0.73 | 48.1 |
| 4/13/2015 15:46:31 | 36.09 | 35.59 | 879 | 2.10 | 0.73 | 48.1 |
| 4/13/2015 15:46:31 | 36.42 | 35.92 | 884 | 2.11 | 0.73 | 48.4 |
| 4/13/2015 15:46:32 | 36.75 | 36.25 | 884 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 15:46:32 | 37.07 | 36.57 | 884 | 2.10 | 0.72 | 48.4 |
| 4/13/2015 15:46:32 | 37.40 | 36.90 | 898 | 2.12 | 0.73 | 49.1 |
| 4/13/2015 15:46:33 | 37.73 | 37.23 | 898 | 2.11 | 0.72 | 49.1 |
| 4/13/2015 15:46:33 | 38.06 | 37.56 | 899 | 2.11 | 0.72 | 49.2 |
| 4/13/2015 15:46:34 | 38.39 | 37.89 | 899 | 2.11 | 0.72 | 49.2 |
| 4/13/2015 15:46:34 | 38.71 | 38.21 | 900 | 2.11 | 0.72 | 49.2 |
| 4/13/2015 15:46:34 | 39.04 | 38.54 | 900 | 2.10 | 0.72 | 49.2 |
| 4/13/2015 15:46:35 | 39.37 | 38.87 | 909 | 2.11 | 0.72 | 49.7 |
| 4/13/2015 15:46:36 | 39.70 | 39.20 | 909 | 2.11 | 0.72 | 49.7 |
| 4/13/2015 15:46:35 | 40.03 | 39.53 | 899 | 2.10 | 0.72 | 49.2 |
| 4/13/2015 15:46:36 | 40.35 | 39.85 | 897 | 2.11 | 0.71 | 49.1 |
| 4/13/2015 15:46:37 | 40.68 | 40.18 | 884 | 2.11 | 0.71 | 48.3 |
| 4/13/2015 15:46:37 | 41.01 | 40.51 | 884 | 2.11 | 0.71 | 48.3 |
| 4/13/2015 15:46:37 | 41.34 | 40.84 | 897 | 2.10 | 0.71 | 49.0 |
| 4/13/2015 15:46:38 | 41.67 | 41.17 | 897 | 2.10 | 0.71 | 49.0 |
| 4/13/2015 15:46:38 | 41.99 | 41.49 | 894 | 2.11 | 0.71 | 48.9 |
| 4/13/2015 15:46:39 | 42.32 | 41.82 | 886 | 2.12 | 0.71 | 48.4 |
| 4/13/2015 15:46:39 | 42.65 | 42.15 | 886 | 2.12 | 0.71 | 48.4 |
| 4/13/2015 15:46:39 | 42.98 | 42.48 | 892 | 2.11 | 0.71 | 48.8 |
| 4/13/2015 15:46:40 | 43.31 | 42.81 | 904 | 2.11 | 0.71 | 49.4 |
| 4/13/2015 15:46:40 | 43.64 | 43.14 | 890 | 2.33 | 1.11 | 48.7 |
| 4/13/2015 15:46:47 | 43.70 | 43.20 | 0 | 2.34 | 1.14 | 0.0 |

## KCB-324-7 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 15:43:43

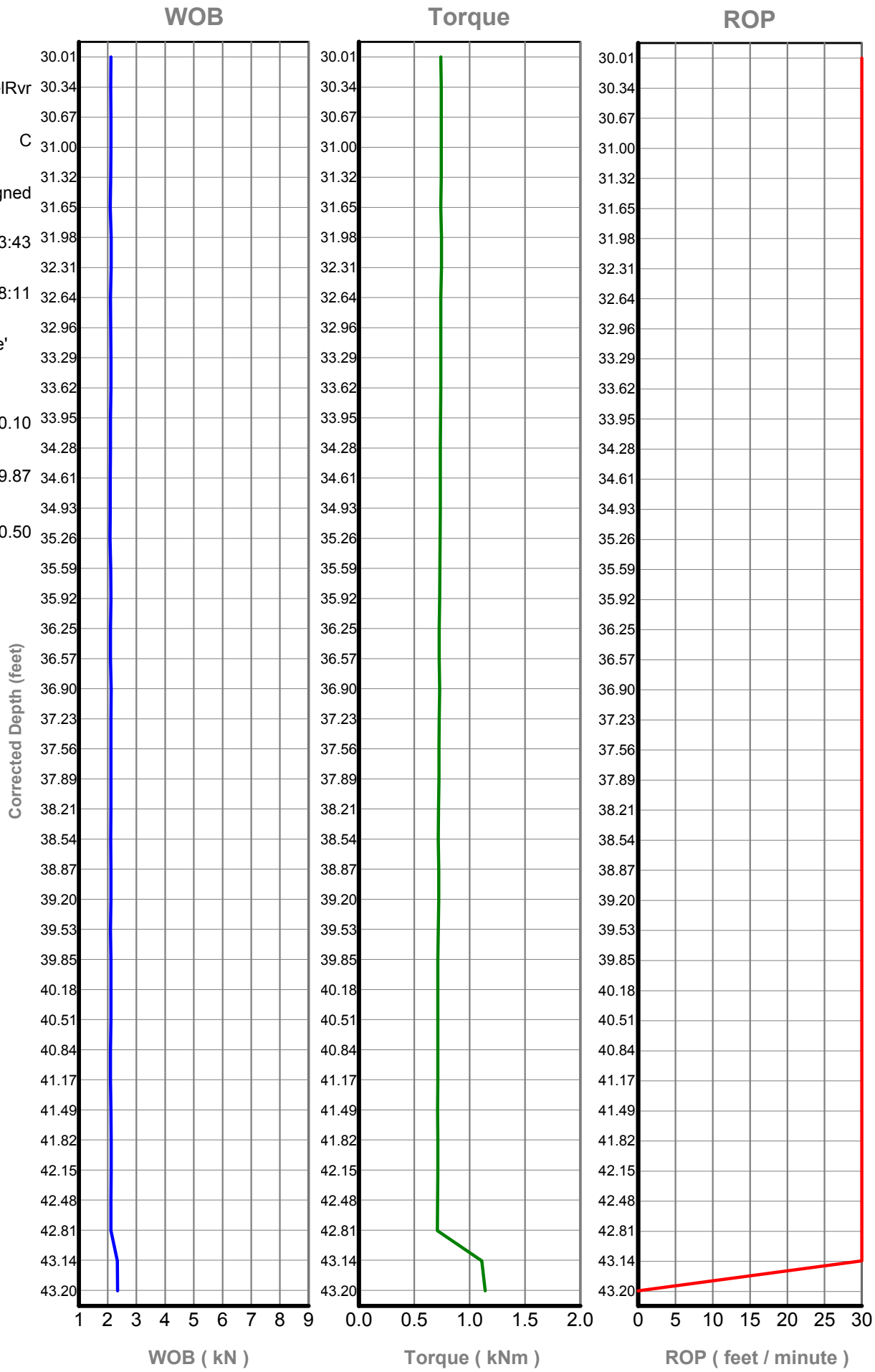
**End Date:**
4/13/2015 15:48:11

**Operator Note:**
'0.5 0.4 c Auto Complete'

**Northing:**
361,630.10

**Easting:**
244,469.87

**Tide (feet):**
0.50



## Hole: KCB-324-8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 12:45:15 | 32.15 | 30.15 | 858 | 2.14 | 0.87 | 46.9 |
| 4/13/2015 12:45:16 | 32.48 | 30.48 | 858 | 2.16 | 0.86 | 46.9 |
| 4/13/2015 12:45:16 | 32.81 | 30.81 | 865 | 2.14 | 0.86 | 47.3 |
| 4/13/2015 12:45:17 | 33.14 | 31.14 | 865 | 2.14 | 0.86 | 47.3 |
| 4/13/2015 12:45:17 | 33.46 | 31.46 | 864 | 2.14 | 0.86 | 47.3 |
| 4/13/2015 12:45:17 | 33.79 | 31.79 | 864 | 2.16 | 0.86 | 47.3 |
| 4/13/2015 12:45:18 | 34.12 | 32.12 | 861 | 2.14 | 0.86 | 47.1 |
| 4/13/2015 12:45:18 | 34.45 | 32.45 | 861 | 2.15 | 0.85 | 47.1 |
| 4/13/2015 12:45:19 | 34.78 | 32.78 | 861 | 2.15 | 0.85 | 47.1 |
| 4/13/2015 12:45:19 | 35.11 | 33.11 | 870 | 2.14 | 0.84 | 47.6 |
| 4/13/2015 12:45:19 | 35.43 | 33.43 | 870 | 2.14 | 0.85 | 47.6 |
| 4/13/2015 12:45:20 | 35.76 | 33.76 | 884 | 2.14 | 0.85 | 48.3 |
| 4/13/2015 12:45:20 | 36.09 | 34.09 | 884 | 2.14 | 0.85 | 48.3 |
| 4/13/2015 12:45:20 | 36.42 | 34.42 | 884 | 2.14 | 0.84 | 48.3 |
| 4/13/2015 12:45:21 | 36.75 | 34.75 | 886 | 2.14 | 0.84 | 48.4 |
| 4/13/2015 12:45:22 | 37.07 | 35.07 | 878 | 2.14 | 0.83 | 48.0 |
| 4/13/2015 12:45:22 | 37.40 | 35.40 | 885 | 2.14 | 0.83 | 48.4 |
| 4/13/2015 12:45:23 | 37.73 | 35.73 | 885 | 2.14 | 0.83 | 48.4 |
| 4/13/2015 12:45:23 | 38.06 | 36.06 | 876 | 2.15 | 0.83 | 47.9 |
| 4/13/2015 12:45:23 | 38.39 | 36.39 | 876 | 2.13 | 0.83 | 47.9 |
| 4/13/2015 12:45:24 | 38.71 | 36.71 | 890 | 2.14 | 0.83 | 48.6 |
| 4/13/2015 12:45:24 | 39.04 | 37.04 | 890 | 2.14 | 0.83 | 48.6 |
| 4/13/2015 12:45:24 | 39.37 | 37.37 | 867 | 2.14 | 0.82 | 47.4 |
| 4/13/2015 12:45:25 | 39.70 | 37.70 | 867 | 2.14 | 0.83 | 47.4 |
| 4/13/2015 12:45:25 | 40.03 | 38.03 | 880 | 2.14 | 0.82 | 48.1 |
| 4/13/2015 12:45:26 | 40.35 | 38.35 | 884 | 2.15 | 0.82 | 48.3 |
| 4/13/2015 12:45:26 | 40.68 | 38.68 | 884 | 2.15 | 0.82 | 48.3 |
| 4/13/2015 12:45:26 | 41.01 | 39.01 | 891 | 2.12 | 0.81 | 48.7 |
| 4/13/2015 12:45:27 | 41.34 | 39.34 | 884 | 2.14 | 0.82 | 48.4 |
| 4/13/2015 12:45:27 | 41.67 | 39.67 | 898 | 2.14 | 0.82 | 49.1 |
| 4/13/2015 12:45:28 | 41.99 | 39.99 | 898 | 2.14 | 0.82 | 49.1 |
| 4/13/2015 12:45:28 | 42.32 | 40.32 | 890 | 2.16 | 0.82 | 48.7 |
| 4/13/2015 12:45:28 | 42.65 | 40.65 | 884 | 2.14 | 0.81 | 48.4 |
| 4/13/2015 12:45:29 | 42.98 | 40.98 | 882 | 2.14 | 0.81 | 48.2 |
| 4/13/2015 12:45:29 | 43.31 | 41.31 | 876 | 2.14 | 0.81 | 47.9 |
| 4/13/2015 12:45:30 | 43.64 | 41.64 | 876 | 2.14 | 0.81 | 47.9 |
| 4/13/2015 12:45:30 | 43.96 | 41.96 | 882 | 2.16 | 0.81 | 48.2 |
| 4/13/2015 12:45:30 | 44.29 | 42.29 | 879 | 2.14 | 0.81 | 48.1 |
| 4/13/2015 12:45:31 | 44.62 | 42.62 | 879 | 2.14 | 0.80 | 48.1 |
| 4/13/2015 12:45:31 | 44.95 | 42.95 | 879 | 2.14 | 0.80 | 48.1 |
| 4/13/2015 12:45:31 | 45.28 | 43.28 | 876 | 2.14 | 0.81 | 47.9 |
| 4/13/2015 12:45:32 | 45.60 | 43.60 | 878 | 2.16 | 0.80 | 48.0 |
| 4/13/2015 12:45:33 | 45.93 | 43.93 | 873 | 2.14 | 0.80 | 47.7 |
| 4/13/2015 12:45:33 | 46.26 | 44.26 | 870 | 2.27 | 1.14 | 47.6 |
| 4/13/2015 12:45:33 | 46.51 | 44.51 | 870 | 2.27 | 1.14 | 47.6 |

## KCB-324-8 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 12:42:19

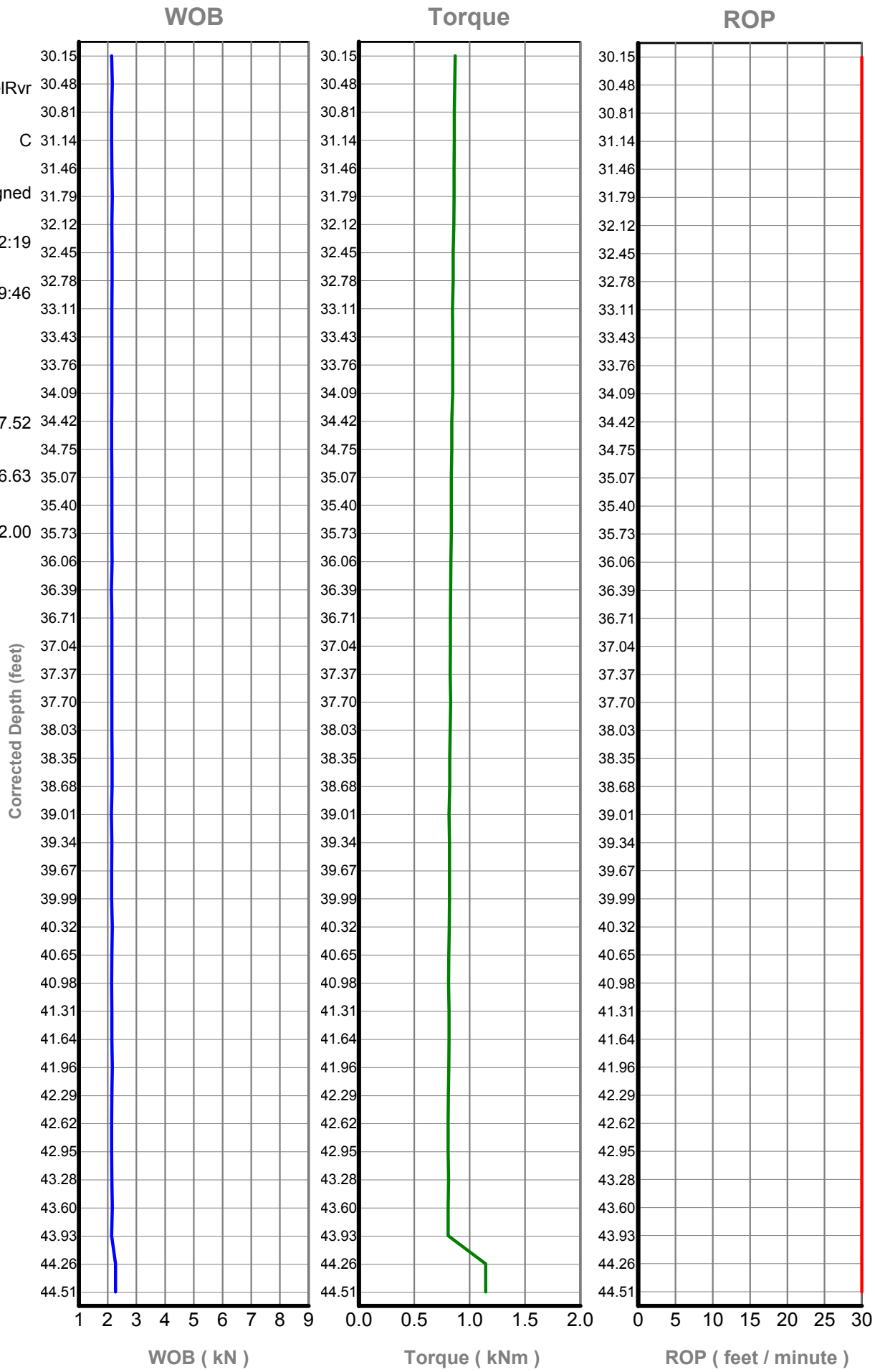
**End Date:**
4/13/2015 12:49:46

**Operator Note:**
'2 2.1 c Auto Complete'

**Northing:**
359,037.52

**Easting:**
243,116.63

**Tide (feet):**
2.00



## Hole: KCB-324-9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/13/2015 12:56:05 | 32.15 | 30.25 | 908 | 2.12 | 0.85 | 49.6 |
| 4/13/2015 12:56:05 | 32.48 | 30.58 | 911 | 2.13 | 0.85 | 49.8 |
| 4/13/2015 12:56:05 | 32.81 | 30.91 | 905 | 2.14 | 0.85 | 49.5 |
| 4/13/2015 12:56:06 | 33.14 | 31.24 | 916 | 2.12 | 0.85 | 50.1 |
| 4/13/2015 12:56:06 | 33.46 | 31.56 | 916 | 2.12 | 0.85 | 50.1 |
| 4/13/2015 12:56:06 | 33.79 | 31.89 | 913 | 2.13 | 0.85 | 50.0 |
| 4/13/2015 12:56:07 | 34.12 | 32.22 | 913 | 2.14 | 0.84 | 50.0 |
| 4/13/2015 12:56:08 | 34.45 | 32.55 | 916 | 2.13 | 0.84 | 50.1 |
| 4/13/2015 12:56:08 | 34.78 | 32.88 | 916 | 2.13 | 0.84 | 50.1 |
| 4/13/2015 12:56:08 | 35.11 | 33.21 | 916 | 2.12 | 0.84 | 50.1 |
| 4/13/2015 12:56:09 | 35.43 | 33.53 | 908 | 2.14 | 0.84 | 49.6 |
| 4/13/2015 12:56:09 | 35.76 | 33.86 | 908 | 2.14 | 0.84 | 49.6 |
| 4/13/2015 12:56:10 | 36.09 | 34.19 | 908 | 2.14 | 0.84 | 49.6 |
| 4/13/2015 12:56:10 | 36.42 | 34.52 | 902 | 2.14 | 0.83 | 49.3 |
| 4/13/2015 12:56:10 | 36.75 | 34.85 | 908 | 2.14 | 0.83 | 49.6 |
| 4/13/2015 12:56:11 | 37.07 | 35.17 | 902 | 2.13 | 0.83 | 49.3 |
| 4/13/2015 12:56:11 | 37.40 | 35.50 | 902 | 2.13 | 0.83 | 49.3 |
| 4/13/2015 12:56:12 | 37.73 | 35.83 | 902 | 2.13 | 0.83 | 49.3 |
| 4/13/2015 12:56:12 | 38.06 | 36.16 | 910 | 2.15 | 0.82 | 49.8 |
| 4/13/2015 12:56:12 | 38.39 | 36.49 | 910 | 2.14 | 0.82 | 49.7 |
| 4/13/2015 12:56:13 | 38.71 | 36.81 | 910 | 2.14 | 0.82 | 49.7 |
| 4/13/2015 12:56:13 | 39.04 | 37.14 | 916 | 2.15 | 0.82 | 50.1 |
| 4/13/2015 12:56:13 | 39.37 | 37.47 | 910 | 2.13 | 0.82 | 49.8 |
| 4/13/2015 12:56:14 | 39.70 | 37.80 | 915 | 2.12 | 0.82 | 50.0 |
| 4/13/2015 12:56:14 | 40.03 | 38.13 | 915 | 2.12 | 0.82 | 50.0 |
| 4/13/2015 12:56:14 | 40.35 | 38.45 | 916 | 2.14 | 0.81 | 50.1 |
| 4/13/2015 12:56:15 | 40.68 | 38.78 | 922 | 2.13 | 0.81 | 50.4 |
| 4/13/2015 12:56:15 | 41.01 | 39.11 | 916 | 2.15 | 0.81 | 50.1 |
| 4/13/2015 12:56:16 | 41.34 | 39.44 | 916 | 2.15 | 0.81 | 50.1 |
| 4/13/2015 12:56:16 | 41.67 | 39.77 | 914 | 2.14 | 0.81 | 50.0 |
| 4/13/2015 12:56:16 | 41.99 | 40.09 | 922 | 2.13 | 0.81 | 50.4 |
| 4/13/2015 12:56:17 | 42.32 | 40.42 | 913 | 2.14 | 0.81 | 50.0 |
| 4/13/2015 12:56:17 | 42.65 | 40.75 | 913 | 2.14 | 0.81 | 50.0 |
| 4/13/2015 12:56:18 | 42.98 | 41.08 | 913 | 2.14 | 0.80 | 50.0 |
| 4/13/2015 12:56:18 | 43.31 | 41.41 | 905 | 2.14 | 0.80 | 49.5 |
| 4/13/2015 12:56:19 | 43.64 | 41.74 | 898 | 2.14 | 0.81 | 49.1 |
| 4/13/2015 12:56:19 | 43.96 | 42.06 | 898 | 2.14 | 0.81 | 49.1 |
| 4/13/2015 12:56:19 | 44.29 | 42.39 | 898 | 2.14 | 0.80 | 49.1 |
| 4/13/2015 12:56:20 | 44.62 | 42.72 | 898 | 2.15 | 0.80 | 49.1 |
| 4/13/2015 12:56:20 | 44.95 | 43.05 | 890 | 2.13 | 0.80 | 48.7 |
| 4/13/2015 12:56:21 | 45.28 | 43.38 | 890 | 2.13 | 0.80 | 48.7 |
| 4/13/2015 12:56:21 | 45.60 | 43.70 | 893 | 2.14 | 0.80 | 48.8 |
| 4/13/2015 12:56:21 | 45.93 | 44.03 | 898 | 2.19 | 0.90 | 49.1 |
| 4/13/2015 12:56:21 | 46.05 | 44.15 | 898 | 2.19 | 0.90 | 49.1 |

## KCB-324-9 - Summary

**Pattern Number:**
AreaK_CB324-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/13/2015 12:53:51

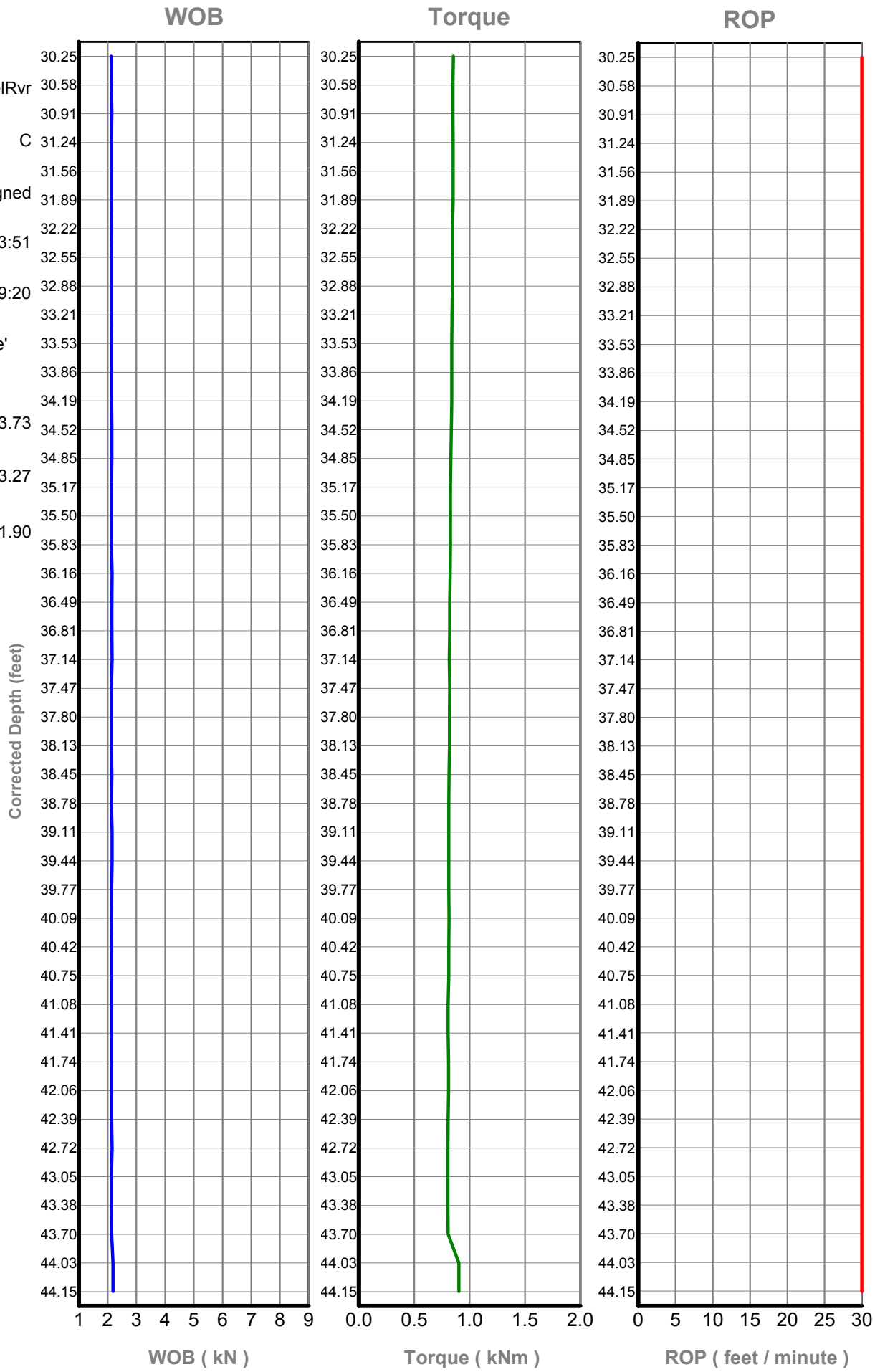
**End Date:**
4/13/2015 12:59:20

**Operator Note:**
'1.9 1.9 c Auto Complete'

**Northing:**
361,633.73

**Easting:**
244,473.27

**Tide (feet):**
1.90



## Hole: KCB-325-1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:09:46 | 36.09 | 30.19 | 468 | 1.89 | 0.99 | 25.6 |
| 4/15/2015 10:09:46 | 36.42 | 30.52 | 471 | 1.85 | 0.98 | 25.8 |
| 4/15/2015 10:09:47 | 36.75 | 30.85 | 474 | 1.85 | 0.99 | 25.9 |
| 4/15/2015 10:09:48 | 37.07 | 31.17 | 477 | 2.10 | 0.98 | 26.1 |
| 4/15/2015 10:09:48 | 37.40 | 31.50 | 474 | 2.06 | 0.98 | 25.9 |
| 4/15/2015 10:09:49 | 37.73 | 31.83 | 466 | 2.02 | 0.97 | 25.5 |
| 4/15/2015 10:09:50 | 38.06 | 32.16 | 472 | 1.98 | 0.97 | 25.8 |
| 4/15/2015 10:09:51 | 38.39 | 32.49 | 467 | 1.83 | 0.97 | 25.5 |
| 4/15/2015 10:09:51 | 38.71 | 32.81 | 475 | 2.11 | 0.97 | 26.0 |
| 4/15/2015 10:09:52 | 39.04 | 33.14 | 481 | 1.85 | 0.96 | 26.3 |
| 4/15/2015 10:09:53 | 39.37 | 33.47 | 478 | 2.06 | 0.96 | 26.1 |
| 4/15/2015 10:09:53 | 39.70 | 33.80 | 486 | 1.93 | 0.95 | 26.6 |
| 4/15/2015 10:09:54 | 40.03 | 34.13 | 480 | 1.84 | 0.95 | 26.2 |
| 4/15/2015 10:09:55 | 40.35 | 34.45 | 480 | 2.11 | 0.96 | 26.2 |
| 4/15/2015 10:09:56 | 40.68 | 34.78 | 477 | 2.08 | 0.95 | 26.1 |
| 4/15/2015 10:09:57 | 41.01 | 35.11 | 477 | 2.05 | 0.95 | 26.1 |
| 4/15/2015 10:09:58 | 41.34 | 35.44 | 480 | 1.86 | 0.95 | 26.3 |
| 4/15/2015 10:09:58 | 41.67 | 35.77 | 480 | 2.08 | 0.95 | 26.3 |
| 4/15/2015 10:09:59 | 41.99 | 36.09 | 480 | 2.10 | 0.95 | 26.3 |
| 4/15/2015 10:10:00 | 42.32 | 36.42 | 483 | 2.06 | 0.95 | 26.4 |
| 4/15/2015 10:10:00 | 42.65 | 36.75 | 477 | 1.98 | 0.95 | 26.1 |
| 4/15/2015 10:10:01 | 42.98 | 37.08 | 471 | 1.85 | 0.94 | 25.8 |
| 4/15/2015 10:10:02 | 43.31 | 37.41 | 477 | 2.08 | 0.94 | 26.1 |
| 4/15/2015 10:10:03 | 43.64 | 37.74 | 474 | 1.91 | 0.95 | 25.9 |
| 4/15/2015 10:10:03 | 43.96 | 38.06 | 474 | 1.96 | 0.95 | 25.9 |
| 4/15/2015 10:10:04 | 44.29 | 38.39 | 474 | 1.85 | 1.03 | 25.9 |
| 4/15/2015 10:10:05 | 44.62 | 38.72 | 474 | 1.86 | 0.94 | 25.9 |
| 4/15/2015 10:10:06 | 44.95 | 39.05 | 474 | 2.07 | 0.94 | 25.9 |
| 4/15/2015 10:10:07 | 45.28 | 39.38 | 471 | 1.92 | 0.94 | 25.8 |
| 4/15/2015 10:10:07 | 45.60 | 39.70 | 477 | 1.84 | 0.94 | 26.1 |
| 4/15/2015 10:10:08 | 45.93 | 40.03 | 477 | 1.85 | 0.94 | 26.1 |
| 4/15/2015 10:10:09 | 46.26 | 40.36 | 475 | 2.00 | 0.94 | 25.9 |
| 4/15/2015 10:10:10 | 46.59 | 40.69 | 472 | 2.10 | 0.94 | 25.8 |
| 4/15/2015 10:10:10 | 46.92 | 41.02 | 472 | 1.85 | 0.94 | 25.8 |
| 4/15/2015 10:10:11 | 47.24 | 41.34 | 472 | 1.86 | 0.94 | 25.8 |
| 4/15/2015 10:10:12 | 47.57 | 41.67 | 469 | 2.09 | 0.94 | 25.7 |
| 4/15/2015 10:10:12 | 47.90 | 42.00 | 466 | 1.85 | 0.93 | 25.5 |
| 4/15/2015 10:10:13 | 48.23 | 42.33 | 461 | 1.90 | 0.94 | 25.2 |
| 4/15/2015 10:10:14 | 48.56 | 42.66 | 470 | 2.08 | 0.93 | 25.7 |
| 4/15/2015 10:10:15 | 48.88 | 42.98 | 458 | 2.06 | 0.93 | 25.1 |
| 4/15/2015 10:10:16 | 49.21 | 43.31 | 458 | 1.89 | 0.93 | 25.1 |
| 4/15/2015 10:10:17 | 49.54 | 43.64 | 464 | 1.85 | 0.93 | 25.4 |
| 4/15/2015 10:10:17 | 49.87 | 43.97 | 464 | 2.05 | 0.93 | 25.4 |
| 4/15/2015 10:10:18 | 50.20 | 44.30 | 461 | 2.09 | 0.93 | 25.2 |
| 4/15/2015 10:10:19 | 50.53 | 44.63 | 477 | 1.85 | 0.94 | 26.1 |
| 4/15/2015 10:10:20 | 50.85 | 44.95 | 463 | 2.19 | 1.15 | 25.3 |
| 4/15/2015 10:10:46 | 51.18 | 45.28 | 62 | 2.07 | 1.17 | 3.4 |
| 4/15/2015 10:10:48 | 51.51 | 45.61 | 137 | 1.95 | 1.20 | 7.5 |
| 4/15/2015 10:11:02 | 51.84 | 45.94 | 63 | 1.93 | 1.21 | 3.4 |
| 4/15/2015 10:11:03 | 52.17 | 46.27 | 136 | 2.17 | 1.11 | 7.5 |
| 4/15/2015 10:11:37 | 52.49 | 46.59 | 0 | 1.95 | 1.49 | 0.0 |
| 4/15/2015 10:11:38 | 52.82 | 46.92 | 128 | 2.04 | 1.24 | 7.0 |
| 4/15/2015 10:12:05 | 53.15 | 47.25 | 14 | 2.13 | 1.19 | 0.8 |
| 4/15/2015 10:12:06 | 53.48 | 47.58 | 150 | 2.11 | 1.11 | 8.2 |
| 4/15/2015 10:12:07 | 53.81 | 47.91 | 295 | 1.88 | 1.09 | 16.1 |
| 4/15/2015 10:13:15 | 54.13 | 48.23 | 0 | 1.95 | 1.31 | 0.0 |
| 4/15/2015 10:13:16 | 54.46 | 48.56 | 146 | 2.10 | 1.17 | 8.0 |
| 4/15/2015 10:13:29 | 54.79 | 48.89 | 37 | 2.12 | 1.25 | 2.0 |
| 4/15/2015 10:13:31 | 55.12 | 49.22 | 146 | 2.06 | 1.12 | 8.0 |
| 4/15/2015 10:13:32 | 55.45 | 49.55 | 224 | 2.05 | 1.10 | 12.2 |
| 4/15/2015 10:13:33 | 55.77 | 49.87 | 352 | 2.04 | 1.17 | 19.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:13:34 | 56.10 | 50.20 | 405 | 2.04 | 1.13 | 22.2 |
| 4/15/2015 | 10:22:12 | 56.43 | 50.53 | 76 | 2.06 | 1.19 | 4.1 |
| 4/15/2015 | 10:22:40 | 56.76 | 50.86 | 0 | 2.00 | 1.06 | 0.0 |
| 4/15/2015 | 10:22:41 | 57.09 | 51.19 | 27 | 2.01 | 1.20 | 1.5 |
| 4/15/2015 | 10:22:42 | 57.41 | 51.51 | 99 | 2.03 | 1.19 | 5.4 |
| 4/15/2015 | 10:22:43 | 57.74 | 51.84 | 200 | 2.05 | 1.08 | 10.9 |
| 4/15/2015 | 10:22:44 | 58.07 | 52.17 | 279 | 2.06 | 1.06 | 15.3 |
| 4/15/2015 | 10:22:49 | 58.40 | 52.50 | 22 | 2.15 | 1.10 | 1.2 |
| 4/15/2015 | 10:22:50 | 58.73 | 52.83 | 48 | 1.93 | 1.11 | 2.6 |
| 4/15/2015 | 10:22:51 | 59.06 | 53.16 | 228 | 1.91 | 0.94 | 12.4 |
| 4/15/2015 | 10:22:51 | 59.38 | 53.48 | 305 | 1.89 | 1.05 | 16.7 |
| 4/15/2015 | 10:23:53 | 59.71 | 53.81 | 49 | 2.02 | 1.24 | 2.7 |
| 4/15/2015 | 10:23:54 | 60.04 | 54.14 | 208 | 2.08 | 1.29 | 11.4 |
| 4/15/2015 | 10:23:55 | 60.37 | 54.47 | 325 | 2.05 | 1.10 | 17.7 |
| 4/15/2015 | 10:23:55 | 60.70 | 54.80 | 367 | 2.09 | 1.17 | 20.1 |
| 4/15/2015 | 10:23:57 | 61.02 | 55.12 | 370 | 2.02 | 1.13 | 20.3 |
| 4/15/2015 | 10:23:58 | 61.35 | 55.45 | 405 | 2.04 | 1.01 | 22.1 |
| 4/15/2015 | 10:23:58 | 61.60 | 55.70 | 405 | 2.05 | 1.21 | 22.1 |

## KCB-325-1 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:05:35

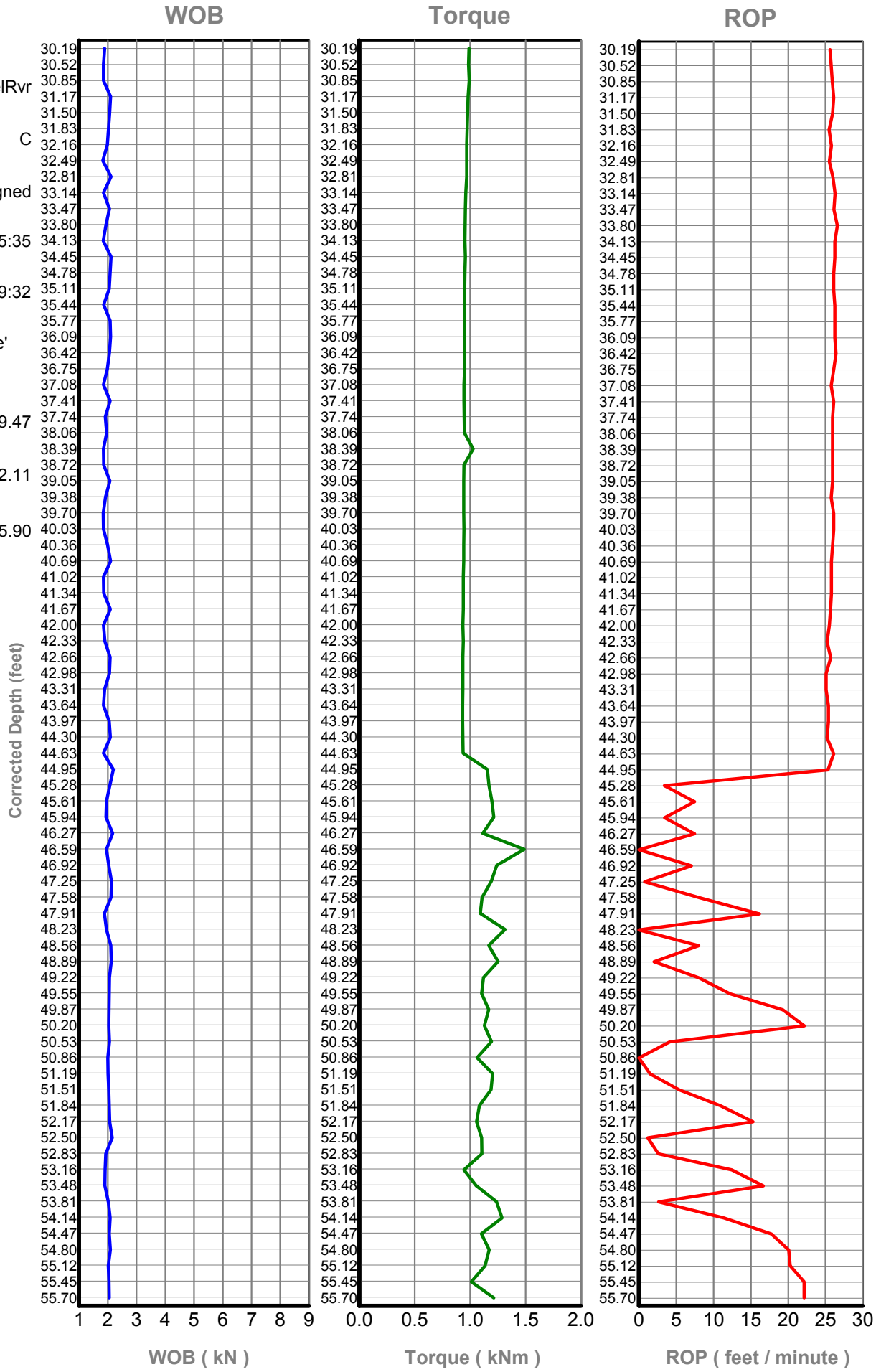
**End Date:**
4/15/2015 10:29:32

**Operator Note:**
'5.9 5.9 c Auto Complete'

**Northing:**
362,079.47

**Easting:**
245,602.11

**Tide (feet):**
5.90



## Hole: KCB-325-10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 12:35:37 | 34.12 | 30.22 | 797 | 2.36 | 0.38 | 43.6 |
| 4/15/2015 12:35:37 | 34.45 | 30.55 | 797 | 2.33 | 0.38 | 43.6 |
| 4/15/2015 12:35:37 | 34.78 | 30.88 | 811 | 2.33 | 0.38 | 44.4 |
| 4/15/2015 12:35:38 | 35.11 | 31.21 | 811 | 2.33 | 0.38 | 44.4 |
| 4/15/2015 12:35:38 | 35.43 | 31.53 | 798 | 2.33 | 0.39 | 43.6 |
| 4/15/2015 12:35:39 | 35.76 | 31.86 | 805 | 2.31 | 0.39 | 44.0 |
| 4/15/2015 12:35:39 | 36.09 | 32.19 | 812 | 2.30 | 0.38 | 44.4 |
| 4/15/2015 12:35:40 | 36.42 | 32.52 | 812 | 2.30 | 0.38 | 44.4 |
| 4/15/2015 12:35:40 | 36.75 | 32.85 | 795 | 2.30 | 0.38 | 43.5 |
| 4/15/2015 12:35:40 | 37.07 | 33.17 | 790 | 2.30 | 0.38 | 43.2 |
| 4/15/2015 12:35:41 | 37.40 | 33.50 | 795 | 2.30 | 0.38 | 43.5 |
| 4/15/2015 12:35:42 | 37.73 | 33.83 | 792 | 2.29 | 0.38 | 43.3 |
| 4/15/2015 12:35:52 | 38.06 | 34.16 | 43 | 2.29 | 0.39 | 2.3 |
| 4/15/2015 12:35:53 | 38.39 | 34.49 | 43 | 2.29 | 0.39 | 2.3 |
| 4/15/2015 12:35:53 | 38.71 | 34.81 | 197 | 2.26 | 0.38 | 10.8 |
| 4/15/2015 12:35:53 | 39.04 | 35.14 | 354 | 2.25 | 0.39 | 19.4 |
| 4/15/2015 12:35:54 | 39.37 | 35.47 | 513 | 2.25 | 0.39 | 28.1 |
| 4/15/2015 12:35:54 | 39.70 | 35.80 | 664 | 2.25 | 0.39 | 36.3 |
| 4/15/2015 12:35:55 | 40.03 | 36.13 | 778 | 2.26 | 0.38 | 42.5 |
| 4/15/2015 12:35:55 | 40.35 | 36.45 | 783 | 2.25 | 0.38 | 42.8 |
| 4/15/2015 12:35:56 | 40.68 | 36.78 | 789 | 2.28 | 0.38 | 43.1 |
| 4/15/2015 12:35:56 | 41.01 | 37.11 | 789 | 2.28 | 0.38 | 43.1 |
| 4/15/2015 12:35:56 | 41.34 | 37.44 | 789 | 2.24 | 0.38 | 43.1 |
| 4/15/2015 12:35:57 | 41.67 | 37.77 | 787 | 2.24 | 0.38 | 43.1 |
| 4/15/2015 12:35:57 | 41.99 | 38.09 | 776 | 2.31 | 0.38 | 42.4 |
| 4/15/2015 12:35:58 | 42.32 | 38.42 | 776 | 2.27 | 0.38 | 42.4 |
| 4/15/2015 12:35:58 | 42.65 | 38.75 | 784 | 2.22 | 0.38 | 42.9 |
| 4/15/2015 12:35:59 | 42.98 | 39.08 | 776 | 2.31 | 0.38 | 42.4 |
| 4/15/2015 12:35:59 | 43.31 | 39.41 | 768 | 2.22 | 0.36 | 42.0 |
| 4/15/2015 12:36:03 | 43.64 | 39.74 | 85 | 2.46 | 0.39 | 4.7 |
| 4/15/2015 12:36:03 | 43.96 | 40.06 | 237 | 2.31 | 0.38 | 12.9 |
| 4/15/2015 12:36:04 | 44.29 | 40.39 | 237 | 2.31 | 0.38 | 12.9 |
| 4/15/2015 12:36:04 | 44.62 | 40.72 | 402 | 2.43 | 0.38 | 22.0 |
| 4/15/2015 12:36:04 | 44.95 | 41.05 | 573 | 2.17 | 0.39 | 31.3 |
| 4/15/2015 12:36:05 | 45.28 | 41.38 | 727 | 2.25 | 0.38 | 39.8 |
| 4/15/2015 12:36:05 | 45.60 | 41.70 | 804 | 2.29 | 0.38 | 44.0 |
| 4/15/2015 12:36:06 | 45.93 | 42.03 | 808 | 2.27 | 0.37 | 44.2 |
| 4/15/2015 12:36:06 | 46.26 | 42.36 | 808 | 2.27 | 0.37 | 44.2 |
| 4/15/2015 12:36:06 | 46.59 | 42.69 | 819 | 2.22 | 0.37 | 44.8 |
| 4/15/2015 12:36:07 | 46.92 | 43.02 | 822 | 2.26 | 0.38 | 44.9 |
| 4/15/2015 12:36:07 | 47.24 | 43.34 | 827 | 2.70 | 0.40 | 45.2 |
| 4/15/2015 12:36:08 | 47.57 | 43.67 | 814 | 2.93 | 0.41 | 44.5 |
| 4/15/2015 12:36:11 | 47.90 | 44.00 | 78 | 3.51 | 0.44 | 4.3 |
| 4/15/2015 12:36:14 | 48.23 | 44.33 | 67 | 4.78 | 0.40 | 3.7 |
| 4/15/2015 12:36:20 | 48.56 | 44.66 | 29 | 3.70 | 0.40 | 1.6 |
| 4/15/2015 12:36:34 | 48.88 | 44.98 | 6 | 2.99 | 0.42 | 0.3 |
| 4/15/2015 12:36:45 | 49.21 | 45.31 | 31 | 2.82 | 0.40 | 1.7 |
| 4/15/2015 12:36:50 | 49.54 | 45.64 | 83 | 3.50 | 0.43 | 4.6 |
| 4/15/2015 12:37:01 | 49.87 | 45.97 | 62 | 4.91 | 0.47 | 3.4 |
| 4/15/2015 12:38:43 | 50.20 | 46.30 | 9 | 4.08 | 0.40 | 0.5 |
| 4/15/2015 12:40:40 | 50.53 | 46.63 | 17 | 3.79 | 0.44 | 1.0 |
| 4/15/2015 12:40:51 | 50.85 | 46.95 | 0 | 3.33 | 0.42 | 0.0 |
| 4/15/2015 12:40:55 | 51.18 | 47.28 | 76 | 3.14 | 0.44 | 4.1 |
| 4/15/2015 12:40:58 | 51.51 | 47.61 | 111 | 2.80 | 0.42 | 6.0 |
| 4/15/2015 12:42:15 | 51.84 | 47.94 | 5 | 2.97 | 0.42 | 0.3 |
| 4/15/2015 12:42:25 | 52.17 | 48.27 | 3 | 8.11 | 0.41 | 0.2 |
| 4/15/2015 12:43:26 | 52.49 | 48.59 | 43 | 3.52 | 0.42 | 2.4 |
| 4/15/2015 12:43:27 | 52.82 | 48.92 | 171 | 3.31 | 0.42 | 9.3 |
| 4/15/2015 12:45:41 | 53.15 | 49.25 | 0 | 2.67 | 0.43 | 0.0 |
| 4/15/2015 12:45:49 | 53.48 | 49.58 | 85 | 3.61 | 0.31 | 4.7 |
| 4/15/2015 12:45:57 | 53.81 | 49.91 | 0 | 3.41 | 0.42 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 12:45:58 | 54.13 | 50.23 | 102 | 3.35 | 0.43 | 5.6 |
| 4/15/2015 | 12:45:59 | 54.46 | 50.56 | 270 | 3.98 | 0.37 | 14.8 |
| 4/15/2015 | 12:46:00 | 54.79 | 50.89 | 296 | 3.12 | 0.40 | 16.2 |
| 4/15/2015 | 12:46:01 | 55.12 | 51.22 | 342 | 3.26 | 0.41 | 18.7 |
| 4/15/2015 | 12:46:08 | 55.45 | 51.55 | 0 | 2.65 | 0.41 | 0.0 |
| 4/15/2015 | 12:46:09 | 55.77 | 51.87 | 76 | 3.10 | 0.42 | 4.2 |
| 4/15/2015 | 12:46:10 | 56.10 | 52.20 | 245 | 3.05 | 0.40 | 13.4 |
| 4/15/2015 | 12:46:10 | 56.43 | 52.53 | 327 | 3.03 | 0.39 | 17.9 |
| 4/15/2015 | 12:46:23 | 56.76 | 52.86 | 0 | 2.82 | 0.42 | 0.0 |
| 4/15/2015 | 12:46:24 | 57.09 | 53.19 | 49 | 3.38 | 0.42 | 2.7 |
| 4/15/2015 | 12:46:50 | 57.41 | 53.51 | 58 | 2.97 | 0.40 | 3.2 |
| 4/15/2015 | 12:46:51 | 57.74 | 53.84 | 89 | 3.09 | 0.43 | 4.9 |
| 4/15/2015 | 12:46:52 | 58.07 | 54.17 | 200 | 2.97 | 0.42 | 10.9 |
| 4/15/2015 | 13:05:15 | 58.40 | 54.50 | 3 | 2.96 | 0.42 | 0.2 |
| 4/15/2015 | 13:05:25 | 58.73 | 54.83 | 0 | 3.01 | 0.42 | 0.0 |
| 4/15/2015 | 13:05:26 | 59.06 | 55.16 | 128 | 3.15 | 0.42 | 7.0 |
| 4/15/2015 | 13:05:27 | 59.36 | 55.46 | 253 | 3.19 | 0.44 | 13.9 |

## KCB-325-10 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 12:31:42

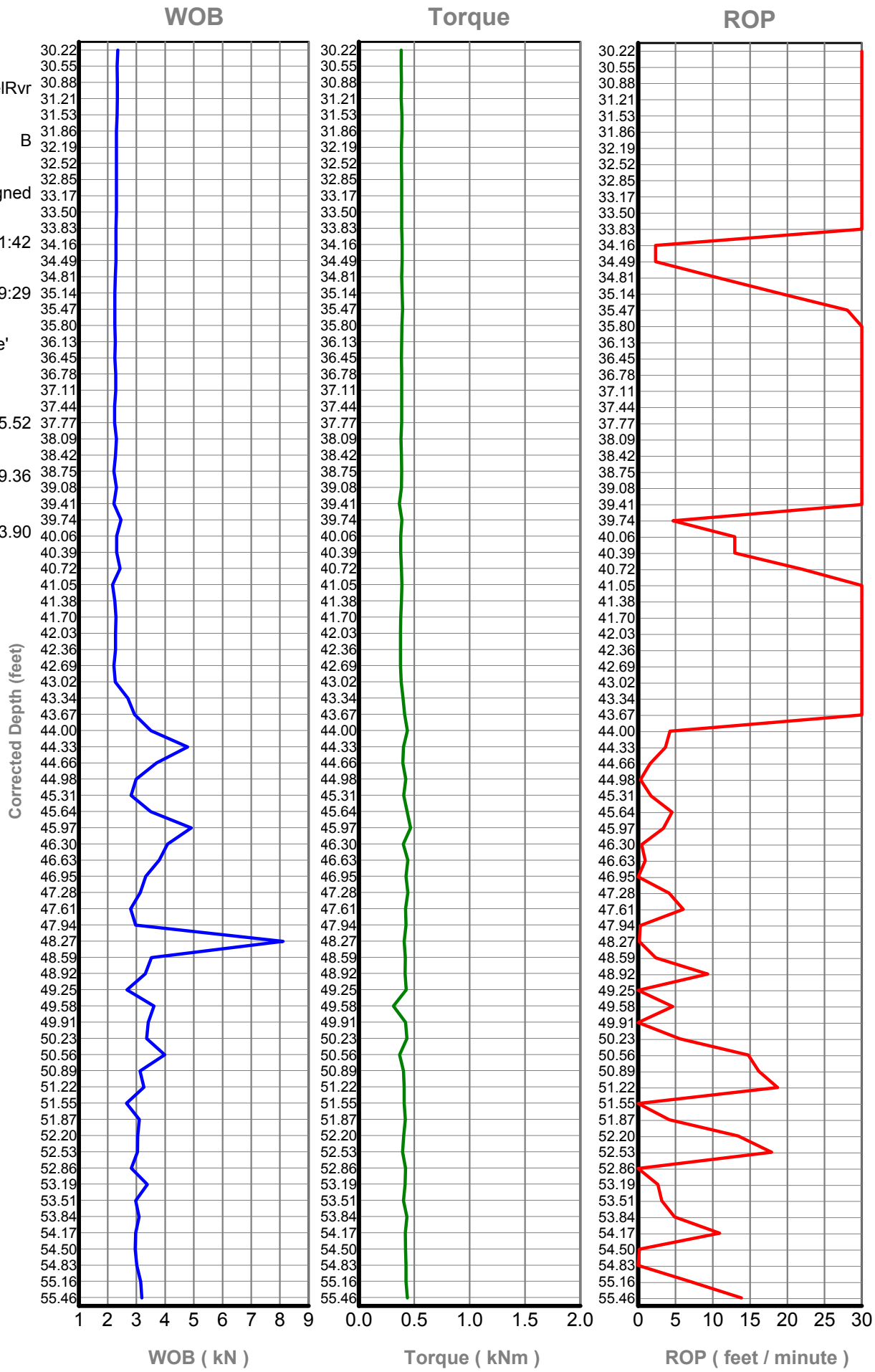
**End Date:**
4/15/2015 13:09:29

**Operator Note:**
'3.9 4.3 b Auto Complete'

**Northing:**
362,085.52

**Easting:**
245,619.36

**Tide (feet):**
3.90



## Hole: KCB-325-11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:02:47 | 36.09 | 30.19 | 82 | 2.50 | 0.40 | 4.5 |
| 4/15/2015 10:02:47 | 36.42 | 30.52 | 200 | 2.50 | 0.40 | 10.9 |
| 4/15/2015 10:02:48 | 36.75 | 30.85 | 329 | 2.50 | 0.40 | 18.0 |
| 4/15/2015 10:02:48 | 37.07 | 31.17 | 454 | 2.50 | 0.39 | 24.8 |
| 4/15/2015 10:02:49 | 37.40 | 31.50 | 590 | 2.50 | 0.39 | 32.3 |
| 4/15/2015 10:02:50 | 37.73 | 31.83 | 647 | 2.48 | 0.39 | 35.4 |
| 4/15/2015 10:02:50 | 38.06 | 32.16 | 671 | 2.52 | 0.39 | 36.7 |
| 4/15/2015 10:02:51 | 38.39 | 32.49 | 671 | 2.52 | 0.39 | 36.7 |
| 4/15/2015 10:02:51 | 38.71 | 32.81 | 679 | 2.53 | 0.40 | 37.1 |
| 4/15/2015 10:02:52 | 39.04 | 33.14 | 686 | 2.55 | 0.40 | 37.5 |
| 4/15/2015 10:02:52 | 39.37 | 33.47 | 676 | 2.54 | 0.40 | 37.0 |
| 4/15/2015 10:02:53 | 39.70 | 33.80 | 668 | 2.55 | 0.40 | 36.5 |
| 4/15/2015 10:02:53 | 40.03 | 34.13 | 662 | 2.54 | 0.40 | 36.2 |
| 4/15/2015 10:02:54 | 40.35 | 34.45 | 653 | 2.55 | 0.40 | 35.7 |
| 4/15/2015 10:02:54 | 40.68 | 34.78 | 647 | 2.55 | 0.40 | 35.4 |
| 4/15/2015 10:02:55 | 41.01 | 35.11 | 647 | 2.53 | 0.40 | 35.4 |
| 4/15/2015 10:02:55 | 41.34 | 35.44 | 639 | 2.52 | 0.39 | 34.9 |
| 4/15/2015 10:02:56 | 41.67 | 35.77 | 639 | 2.51 | 0.39 | 34.9 |
| 4/15/2015 10:02:56 | 41.99 | 36.09 | 636 | 2.52 | 0.39 | 34.8 |
| 4/15/2015 10:03:11 | 42.32 | 36.42 | 11 | 2.47 | 0.40 | 0.6 |
| 4/15/2015 10:03:11 | 42.65 | 36.75 | 144 | 2.47 | 0.40 | 7.9 |
| 4/15/2015 10:03:12 | 42.98 | 37.08 | 275 | 2.46 | 0.39 | 15.0 |
| 4/15/2015 10:03:12 | 43.31 | 37.41 | 409 | 2.46 | 0.39 | 22.4 |
| 4/15/2015 10:03:13 | 43.64 | 37.74 | 557 | 2.46 | 0.39 | 30.4 |
| 4/15/2015 10:03:13 | 43.96 | 38.06 | 695 | 2.46 | 0.39 | 38.0 |
| 4/15/2015 10:03:14 | 44.29 | 38.39 | 708 | 2.44 | 0.39 | 38.7 |
| 4/15/2015 10:03:14 | 44.62 | 38.72 | 723 | 2.46 | 0.39 | 39.5 |
| 4/15/2015 10:03:15 | 44.95 | 39.05 | 733 | 2.44 | 0.39 | 40.1 |
| 4/15/2015 10:03:15 | 45.28 | 39.38 | 726 | 2.45 | 0.39 | 39.7 |
| 4/15/2015 10:03:16 | 45.60 | 39.70 | 724 | 2.43 | 0.38 | 39.6 |
| 4/15/2015 10:03:16 | 45.93 | 40.03 | 724 | 2.43 | 0.38 | 39.6 |
| 4/15/2015 10:03:16 | 46.26 | 40.36 | 734 | 2.44 | 0.39 | 40.2 |
| 4/15/2015 10:03:17 | 46.59 | 40.69 | 726 | 2.44 | 0.39 | 39.7 |
| 4/15/2015 10:03:17 | 46.92 | 41.02 | 726 | 2.45 | 0.39 | 39.7 |
| 4/15/2015 10:03:18 | 47.24 | 41.34 | 731 | 2.44 | 0.39 | 40.0 |
| 4/15/2015 10:03:18 | 47.57 | 41.67 | 740 | 2.44 | 0.39 | 40.5 |
| 4/15/2015 10:03:19 | 47.90 | 42.00 | 744 | 2.43 | 0.38 | 40.7 |
| 4/15/2015 10:03:19 | 48.23 | 42.33 | 740 | 2.44 | 0.39 | 40.5 |
| 4/15/2015 10:03:20 | 48.56 | 42.66 | 745 | 2.54 | 0.39 | 40.7 |
| 4/15/2015 10:03:21 | 48.88 | 42.98 | 746 | 2.58 | 0.40 | 40.8 |
| 4/15/2015 10:03:21 | 49.21 | 43.31 | 729 | 2.88 | 0.42 | 39.8 |
| 4/15/2015 10:03:23 | 49.54 | 43.64 | 283 | 3.37 | 0.34 | 15.5 |
| 4/15/2015 10:03:35 | 49.87 | 43.97 | 23 | 4.43 | 0.45 | 1.2 |
| 4/15/2015 10:03:38 | 50.20 | 44.30 | 131 | 3.85 | 0.42 | 7.2 |
| 4/15/2015 10:04:05 | 50.53 | 44.63 | 6 | 3.37 | 0.44 | 0.3 |
| 4/15/2015 10:04:13 | 50.85 | 44.95 | 3 | 3.24 | 0.44 | 0.2 |
| 4/15/2015 10:04:14 | 51.18 | 45.28 | 131 | 3.99 | 0.45 | 7.2 |
| 4/15/2015 10:04:40 | 51.51 | 45.61 | 20 | 3.90 | 0.42 | 1.1 |
| 4/15/2015 10:04:50 | 51.84 | 45.94 | 55 | 3.75 | 0.43 | 3.0 |
| 4/15/2015 10:04:51 | 52.17 | 46.27 | 175 | 3.55 | 0.42 | 9.6 |
| 4/15/2015 10:05:22 | 52.49 | 46.59 | 0 | 4.82 | 0.44 | 0.0 |
| 4/15/2015 10:05:27 | 52.82 | 46.92 | 44 | 3.48 | 0.43 | 2.4 |
| 4/15/2015 10:05:45 | 53.15 | 47.25 | 46 | 3.21 | 0.39 | 2.5 |
| 4/15/2015 10:05:59 | 53.48 | 47.58 | 0 | 3.70 | 0.42 | 0.0 |
| 4/15/2015 10:06:05 | 53.81 | 47.91 | 30 | 5.48 | 0.44 | 1.7 |
| 4/15/2015 10:06:07 | 54.13 | 48.23 | 114 | 3.40 | 0.41 | 6.2 |
| 4/15/2015 10:06:08 | 54.46 | 48.56 | 184 | 2.88 | 0.42 | 10.1 |
| 4/15/2015 10:06:43 | 54.79 | 48.89 | 57 | 3.50 | 0.40 | 3.1 |
| 4/15/2015 10:06:45 | 55.12 | 49.22 | 185 | 3.90 | 0.42 | 10.1 |
| 4/15/2015 10:06:45 | 55.45 | 49.55 | 203 | 3.52 | 0.43 | 11.1 |
| 4/15/2015 10:06:46 | 55.77 | 49.87 | 283 | 3.20 | 0.41 | 15.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:07:31 | 56.10 | 50.20 | 15 | 4.45 | 0.44 | 0.8 |
| 4/15/2015 | 10:07:52 | 56.43 | 50.53 | 37 | 3.07 | 0.41 | 2.0 |
| 4/15/2015 | 10:08:37 | 56.76 | 50.86 | 9 | 3.58 | 0.40 | 0.5 |
| 4/15/2015 | 10:08:38 | 57.09 | 51.19 | 89 | 3.77 | 0.43 | 4.9 |
| 4/15/2015 | 10:08:40 | 57.41 | 51.51 | 210 | 3.71 | 0.44 | 11.5 |
| 4/15/2015 | 10:08:48 | 57.74 | 51.84 | 48 | 3.62 | 0.44 | 2.6 |
| 4/15/2015 | 10:09:39 | 58.07 | 52.17 | 85 | 3.81 | 0.43 | 4.6 |
| 4/15/2015 | 10:09:48 | 58.40 | 52.50 | 80 | 3.14 | 0.44 | 4.4 |
| 4/15/2015 | 10:09:56 | 58.73 | 52.83 | 78 | 3.26 | 0.42 | 4.3 |
| 4/15/2015 | 10:10:38 | 59.06 | 53.16 | 14 | 3.54 | 0.43 | 0.7 |
| 4/15/2015 | 10:10:43 | 59.38 | 53.48 | 75 | 4.17 | 0.46 | 4.1 |
| 4/15/2015 | 10:10:49 | 59.71 | 53.81 | 136 | 3.60 | 0.43 | 7.4 |
| 4/15/2015 | 10:10:52 | 60.04 | 54.14 | 98 | 3.07 | 0.38 | 5.4 |
| 4/15/2015 | 10:10:59 | 60.37 | 54.47 | 114 | 3.69 | 0.42 | 6.2 |
| 4/15/2015 | 10:11:04 | 60.70 | 54.80 | 66 | 4.67 | 0.45 | 3.6 |
| 4/15/2015 | 10:11:06 | 61.02 | 55.12 | 163 | 2.55 | 0.43 | 8.9 |
| 4/15/2015 | 10:11:11 | 61.35 | 55.45 | 84 | 3.51 | 0.44 | 4.6 |
| 4/15/2015 | 10:11:14 | 61.40 | 55.50 | 3 | 2.57 | 0.37 | 0.2 |

## KCB-325-11 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 9:57:56

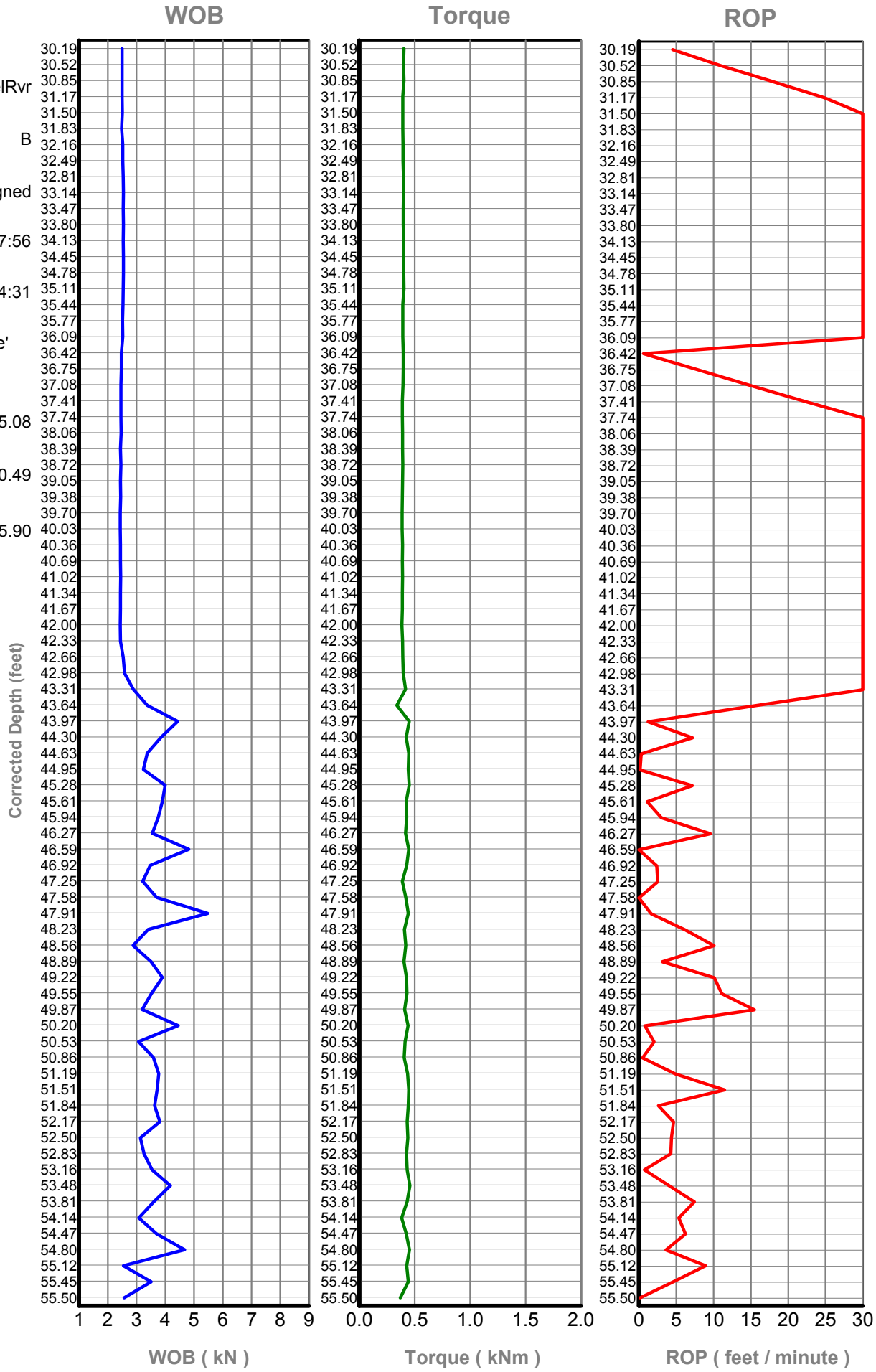
**End Date:**
4/15/2015 10:14:31

**Operator Note:**
'5.9 5.9 b Auto Complete'

**Northing:**
362,095.08

**Easting:**
245,620.49

**Tide (feet):**
5.90



## Hole: KCB-325-12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:14:58 | 33.46 | 30.26 | 908 | 1.74 | 0.37 | 49.6 |
| 4/15/2015 13:14:58 | 33.79 | 30.59 | 913 | 1.75 | 0.37 | 49.9 |
| 4/15/2015 13:14:58 | 34.12 | 30.92 | 913 | 1.74 | 0.37 | 49.9 |
| 4/15/2015 13:14:59 | 34.45 | 31.25 | 905 | 1.74 | 0.37 | 49.5 |
| 4/15/2015 13:14:59 | 34.78 | 31.58 | 905 | 1.74 | 0.37 | 49.5 |
| 4/15/2015 13:14:59 | 35.11 | 31.91 | 889 | 1.75 | 0.38 | 48.6 |
| 4/15/2015 13:15:00 | 35.43 | 32.23 | 891 | 1.76 | 0.37 | 48.7 |
| 4/15/2015 13:15:00 | 35.76 | 32.56 | 867 | 1.75 | 0.37 | 47.4 |
| 4/15/2015 13:15:01 | 36.09 | 32.89 | 867 | 1.75 | 0.37 | 47.4 |
| 4/15/2015 13:15:01 | 36.42 | 33.22 | 867 | 1.74 | 0.37 | 47.4 |
| 4/15/2015 13:15:01 | 36.75 | 33.55 | 855 | 1.74 | 0.37 | 46.8 |
| 4/15/2015 13:15:02 | 37.07 | 33.87 | 845 | 1.74 | 0.38 | 46.2 |
| 4/15/2015 13:15:02 | 37.40 | 34.20 | 845 | 1.74 | 0.37 | 46.2 |
| 4/15/2015 13:15:03 | 37.73 | 34.53 | 845 | 1.74 | 0.37 | 46.2 |
| 4/15/2015 13:15:03 | 38.06 | 34.86 | 848 | 1.74 | 0.37 | 46.4 |
| 4/15/2015 13:15:03 | 38.39 | 35.19 | 848 | 1.73 | 0.37 | 46.4 |
| 4/15/2015 13:15:04 | 38.71 | 35.51 | 854 | 1.74 | 0.37 | 46.7 |
| 4/15/2015 13:15:05 | 39.04 | 35.84 | 860 | 1.73 | 0.37 | 47.0 |
| 4/15/2015 13:15:05 | 39.37 | 36.17 | 860 | 1.73 | 0.37 | 47.0 |
| 4/15/2015 13:15:05 | 39.70 | 36.50 | 868 | 1.74 | 0.38 | 47.5 |
| 4/15/2015 13:15:06 | 40.03 | 36.83 | 884 | 1.74 | 0.37 | 48.3 |
| 4/15/2015 13:15:06 | 40.35 | 37.15 | 879 | 1.74 | 0.38 | 48.1 |
| 4/15/2015 13:15:07 | 40.68 | 37.48 | 879 | 1.74 | 0.38 | 48.1 |
| 4/15/2015 13:15:07 | 41.01 | 37.81 | 863 | 1.74 | 0.38 | 47.2 |
| 4/15/2015 13:15:07 | 41.34 | 38.14 | 877 | 1.74 | 0.37 | 48.0 |
| 4/15/2015 13:15:08 | 41.67 | 38.47 | 875 | 1.74 | 0.37 | 47.8 |
| 4/15/2015 13:15:08 | 41.99 | 38.79 | 856 | 1.74 | 0.37 | 46.8 |
| 4/15/2015 13:15:09 | 42.32 | 39.12 | 856 | 1.74 | 0.37 | 46.8 |
| 4/15/2015 13:15:09 | 42.65 | 39.45 | 868 | 1.75 | 0.37 | 47.5 |
| 4/15/2015 13:15:09 | 42.98 | 39.78 | 868 | 1.75 | 0.38 | 47.5 |
| 4/15/2015 13:15:10 | 43.31 | 40.11 | 863 | 1.74 | 0.37 | 47.2 |
| 4/15/2015 13:15:10 | 43.64 | 40.44 | 863 | 1.74 | 0.37 | 47.2 |
| 4/15/2015 13:15:11 | 43.96 | 40.76 | 863 | 1.74 | 0.37 | 47.2 |
| 4/15/2015 13:15:11 | 44.29 | 41.09 | 877 | 1.76 | 0.37 | 48.0 |
| 4/15/2015 13:15:11 | 44.62 | 41.42 | 890 | 1.74 | 0.38 | 48.7 |
| 4/15/2015 13:15:12 | 44.95 | 41.75 | 885 | 1.74 | 0.37 | 48.4 |
| 4/15/2015 13:15:12 | 45.28 | 42.08 | 885 | 1.74 | 0.37 | 48.4 |
| 4/15/2015 13:15:12 | 45.60 | 42.40 | 893 | 2.02 | 0.37 | 48.8 |
| 4/15/2015 13:15:13 | 45.93 | 42.73 | 883 | 1.76 | 0.39 | 48.3 |
| 4/15/2015 13:15:13 | 46.26 | 43.06 | 883 | 1.77 | 0.36 | 48.3 |
| 4/15/2015 13:15:14 | 46.59 | 43.39 | 874 | 1.73 | 0.37 | 47.8 |
| 4/15/2015 13:15:15 | 46.92 | 43.72 | 874 | 1.73 | 0.37 | 47.8 |
| 4/15/2015 13:15:14 | 47.24 | 44.04 | 869 | 2.23 | 0.38 | 47.5 |
| 4/15/2015 13:15:15 | 47.57 | 44.37 | 869 | 3.84 | 0.39 | 47.5 |
| 4/15/2015 13:15:24 | 47.90 | 44.70 | 25 | 2.35 | 0.40 | 1.4 |
| 4/15/2015 13:15:25 | 48.23 | 45.03 | 109 | 3.33 | 0.43 | 6.0 |
| 4/15/2015 13:15:26 | 48.56 | 45.36 | 171 | 2.91 | 0.39 | 9.4 |
| 4/15/2015 13:15:27 | 48.88 | 45.68 | 224 | 5.21 | 0.44 | 12.2 |
| 4/15/2015 13:15:28 | 49.21 | 46.01 | 328 | 4.24 | 0.45 | 18.0 |
| 4/15/2015 13:15:29 | 49.54 | 46.34 | 309 | 3.03 | 0.41 | 16.9 |
| 4/15/2015 13:15:30 | 49.87 | 46.67 | 327 | 4.37 | 0.40 | 17.9 |
| 4/15/2015 13:15:31 | 50.20 | 47.00 | 309 | 4.14 | 0.41 | 16.9 |
| 4/15/2015 13:15:43 | 50.53 | 47.33 | 109 | 2.73 | 0.43 | 5.9 |
| 4/15/2015 13:15:43 | 50.85 | 47.65 | 200 | 2.82 | 0.42 | 10.9 |
| 4/15/2015 13:15:50 | 51.18 | 47.98 | 70 | 3.15 | 0.42 | 3.8 |
| 4/15/2015 13:15:51 | 51.51 | 48.31 | 136 | 2.93 | 0.41 | 7.5 |
| 4/15/2015 13:15:52 | 51.84 | 48.64 | 136 | 3.28 | 0.41 | 7.5 |
| 4/15/2015 13:15:57 | 52.17 | 48.97 | 0 | 4.72 | 0.44 | 0.0 |
| 4/15/2015 13:15:59 | 52.49 | 49.29 | 103 | 3.84 | 0.45 | 5.7 |
| 4/15/2015 13:16:14 | 52.82 | 49.62 | 85 | 3.06 | 0.41 | 4.7 |
| 4/15/2015 13:16:17 | 53.15 | 49.95 | 126 | 3.39 | 0.41 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 13:16:20 | 53.48 | 50.28 | 100 | 3.85 | 0.40 | 5.5 |
| 4/15/2015 | 13:16:21 | 53.81 | 50.61 | 182 | 2.50 | 0.39 | 9.9 |
| 4/15/2015 | 13:16:22 | 54.13 | 50.93 | 242 | 3.44 | 0.40 | 13.2 |
| 4/15/2015 | 13:16:23 | 54.46 | 51.26 | 378 | 3.05 | 0.41 | 20.7 |
| 4/15/2015 | 13:16:24 | 54.79 | 51.59 | 387 | 3.34 | 0.42 | 21.1 |
| 4/15/2015 | 13:16:25 | 55.12 | 51.92 | 376 | 2.97 | 0.42 | 20.5 |
| 4/15/2015 | 13:17:06 | 55.45 | 52.25 | 57 | 2.55 | 0.43 | 3.1 |
| 4/15/2015 | 13:17:09 | 55.77 | 52.57 | 140 | 3.70 | 0.42 | 7.7 |
| 4/15/2015 | 13:17:16 | 56.10 | 52.90 | 37 | 4.06 | 0.42 | 2.0 |
| 4/15/2015 | 13:17:18 | 56.43 | 53.23 | 190 | 3.28 | 0.39 | 10.4 |
| 4/15/2015 | 13:17:19 | 56.76 | 53.56 | 237 | 2.86 | 0.43 | 13.0 |
| 4/15/2015 | 13:17:21 | 57.09 | 53.89 | 246 | 3.41 | 0.40 | 13.4 |
| 4/15/2015 | 13:17:22 | 57.41 | 54.21 | 264 | 3.16 | 0.41 | 14.4 |
| 4/15/2015 | 13:17:23 | 57.74 | 54.54 | 286 | 3.64 | 0.41 | 15.6 |
| 4/15/2015 | 13:17:25 | 58.07 | 54.87 | 286 | 3.23 | 0.42 | 15.7 |
| 4/15/2015 | 13:17:28 | 58.37 | 55.17 | 63 | 3.58 | 0.44 | 3.5 |

## KCB-325-12 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:10:22

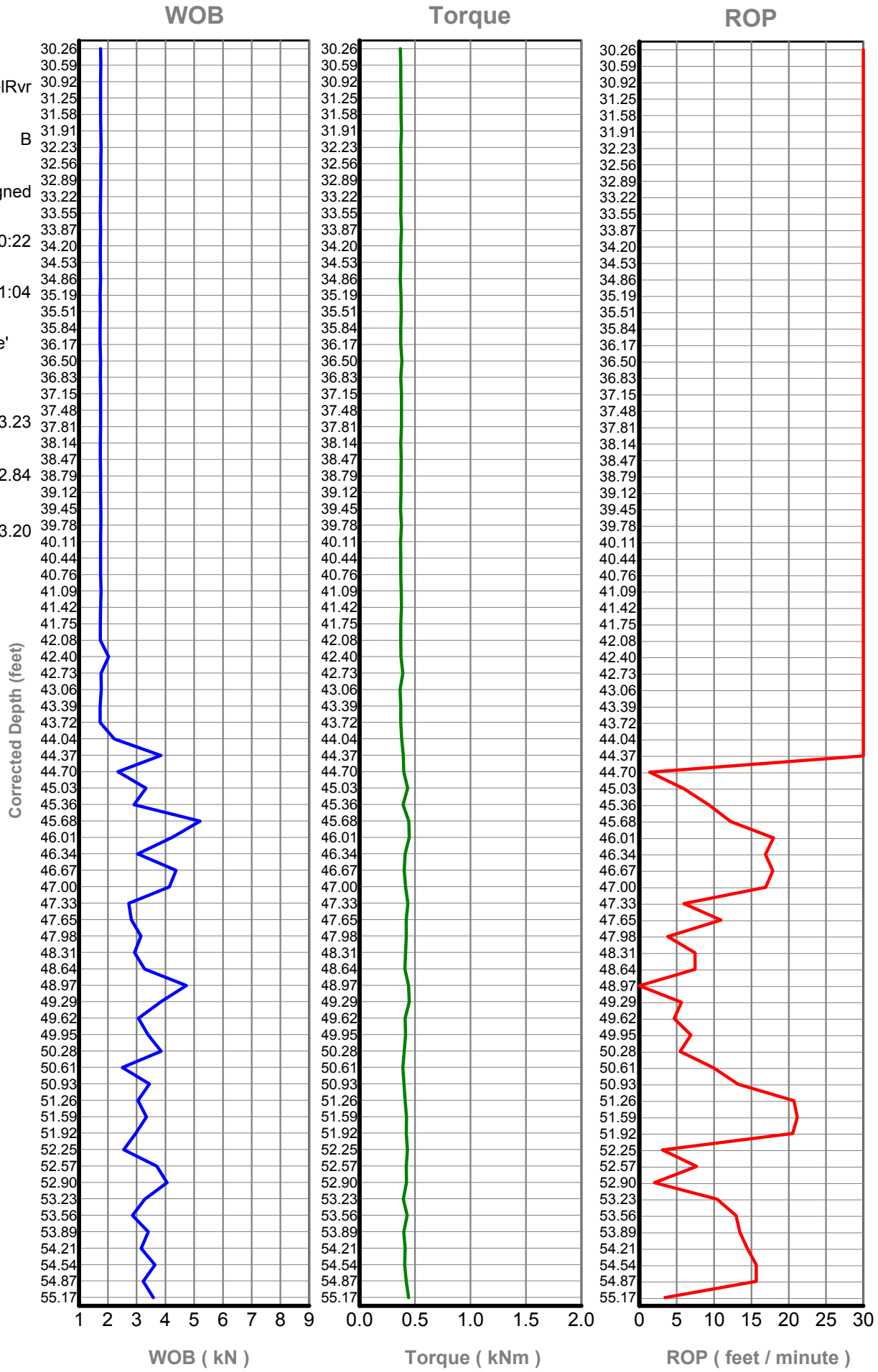
**End Date:**
4/15/2015 13:21:04

**Operator Note:**
'3.2 3.4 b Auto Complete'

**Northing:**
362,083.23

**Easting:**
245,622.84

**Tide (feet):**
3.20



## Hole: KCB-325-13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:22:39 | 36.09 | 30.19 | 792 | 2.33 | 0.38 | 43.3 |
| 4/15/2015 10:22:40 | 36.42 | 30.52 | 815 | 2.33 | 0.38 | 44.6 |
| 4/15/2015 10:22:40 | 36.75 | 30.85 | 791 | 2.31 | 0.38 | 43.3 |
| 4/15/2015 10:22:41 | 37.07 | 31.17 | 791 | 2.31 | 0.38 | 43.3 |
| 4/15/2015 10:22:41 | 37.40 | 31.50 | 791 | 2.31 | 0.37 | 43.3 |
| 4/15/2015 10:22:41 | 37.73 | 31.83 | 790 | 2.31 | 0.37 | 43.2 |
| 4/15/2015 10:22:42 | 38.06 | 32.16 | 802 | 2.31 | 0.38 | 43.9 |
| 4/15/2015 10:22:42 | 38.39 | 32.49 | 831 | 2.31 | 0.38 | 45.5 |
| 4/15/2015 10:22:43 | 38.71 | 32.81 | 819 | 2.30 | 0.38 | 44.8 |
| 4/15/2015 10:22:43 | 39.04 | 33.14 | 819 | 2.30 | 0.38 | 44.8 |
| 4/15/2015 10:22:43 | 39.37 | 33.47 | 814 | 2.31 | 0.38 | 44.5 |
| 4/15/2015 10:22:44 | 39.70 | 33.80 | 814 | 2.31 | 0.38 | 44.5 |
| 4/15/2015 10:22:44 | 40.03 | 34.13 | 816 | 2.31 | 0.38 | 44.6 |
| 4/15/2015 10:22:45 | 40.35 | 34.45 | 803 | 2.47 | 0.38 | 43.9 |
| 4/15/2015 10:22:45 | 40.68 | 34.78 | 777 | 2.30 | 0.38 | 42.5 |
| 4/15/2015 10:22:46 | 41.01 | 35.11 | 772 | 2.32 | 0.38 | 42.2 |
| 4/15/2015 10:22:46 | 41.34 | 35.44 | 772 | 2.32 | 0.38 | 42.2 |
| 4/15/2015 10:22:47 | 41.67 | 35.77 | 803 | 2.30 | 0.38 | 43.9 |
| 4/15/2015 10:22:47 | 41.99 | 36.09 | 785 | 2.04 | 0.38 | 43.0 |
| 4/15/2015 10:22:48 | 42.32 | 36.42 | 778 | 2.33 | 0.38 | 42.5 |
| 4/15/2015 10:22:48 | 42.65 | 36.75 | 800 | 2.31 | 0.38 | 43.7 |
| 4/15/2015 10:22:49 | 42.98 | 37.08 | 776 | 2.33 | 0.38 | 42.4 |
| 4/15/2015 10:22:49 | 43.31 | 37.41 | 776 | 2.31 | 0.38 | 42.4 |
| 4/15/2015 10:22:50 | 43.64 | 37.74 | 772 | 2.35 | 0.37 | 42.2 |
| 4/15/2015 10:22:50 | 43.96 | 38.06 | 772 | 2.35 | 0.37 | 42.2 |
| 4/15/2015 10:22:50 | 44.29 | 38.39 | 772 | 2.33 | 0.38 | 42.2 |
| 4/15/2015 10:22:51 | 44.62 | 38.72 | 791 | 2.08 | 0.38 | 43.3 |
| 4/15/2015 10:22:51 | 44.95 | 39.05 | 787 | 2.44 | 0.38 | 43.0 |
| 4/15/2015 10:22:52 | 45.28 | 39.38 | 785 | 2.42 | 0.38 | 42.9 |
| 4/15/2015 10:22:52 | 45.60 | 39.70 | 785 | 2.42 | 0.38 | 42.9 |
| 4/15/2015 10:22:52 | 45.93 | 40.03 | 785 | 2.44 | 0.38 | 42.9 |
| 4/15/2015 10:22:53 | 46.26 | 40.36 | 811 | 2.41 | 0.38 | 44.3 |
| 4/15/2015 10:22:53 | 46.59 | 40.69 | 811 | 2.40 | 0.38 | 44.3 |
| 4/15/2015 10:22:54 | 46.92 | 41.02 | 814 | 2.40 | 0.38 | 44.5 |
| 4/15/2015 10:22:54 | 47.24 | 41.34 | 782 | 2.35 | 0.39 | 42.8 |
| 4/15/2015 10:22:55 | 47.57 | 41.67 | 782 | 2.40 | 0.37 | 42.8 |
| 4/15/2015 10:22:56 | 47.90 | 42.00 | 782 | 2.40 | 0.37 | 42.8 |
| 4/15/2015 10:22:55 | 48.23 | 42.33 | 798 | 2.36 | 0.38 | 43.6 |
| 4/15/2015 10:22:56 | 48.56 | 42.66 | 798 | 2.40 | 0.38 | 43.6 |
| 4/15/2015 10:22:57 | 48.88 | 42.98 | 800 | 2.40 | 0.38 | 43.7 |
| 4/15/2015 10:22:57 | 49.21 | 43.31 | 800 | 2.38 | 0.37 | 43.7 |
| 4/15/2015 10:22:58 | 49.54 | 43.64 | 807 | 2.31 | 0.38 | 44.1 |
| 4/15/2015 10:22:58 | 49.87 | 43.97 | 789 | 2.42 | 0.38 | 43.2 |
| 4/15/2015 10:22:59 | 50.20 | 44.30 | 789 | 2.42 | 0.38 | 43.2 |
| 4/15/2015 10:22:59 | 50.53 | 44.63 | 789 | 2.90 | 0.40 | 43.2 |
| 4/15/2015 10:23:01 | 50.85 | 44.95 | 407 | 3.69 | 0.42 | 22.3 |
| 4/15/2015 10:23:04 | 51.18 | 45.28 | 126 | 4.21 | 0.45 | 6.9 |
| 4/15/2015 10:23:08 | 51.51 | 45.61 | 64 | 3.39 | 0.44 | 3.5 |
| 4/15/2015 10:23:10 | 51.84 | 45.94 | 151 | 4.97 | 0.45 | 8.3 |
| 4/15/2015 10:23:17 | 52.17 | 46.27 | 82 | 5.04 | 0.44 | 4.5 |
| 4/15/2015 10:23:50 | 52.49 | 46.59 | 6 | 6.17 | 0.42 | 0.3 |
| 4/15/2015 10:24:08 | 52.82 | 46.92 | 14 | 4.03 | 0.41 | 0.8 |
| 4/15/2015 10:24:15 | 53.15 | 47.25 | 12 | 5.96 | 0.41 | 0.6 |
| 4/15/2015 10:24:32 | 53.48 | 47.58 | 6 | 3.24 | 0.43 | 0.3 |
| 4/15/2015 10:24:44 | 53.81 | 47.91 | 37 | 2.75 | 0.40 | 2.0 |
| 4/15/2015 10:24:51 | 54.13 | 48.23 | 19 | 3.16 | 0.43 | 1.1 |
| 4/15/2015 10:25:01 | 54.46 | 48.56 | 52 | 3.35 | 0.42 | 2.8 |
| 4/15/2015 10:25:18 | 54.79 | 48.89 | 51 | 5.41 | 0.44 | 2.8 |
| 4/15/2015 10:25:25 | 55.12 | 49.22 | 74 | 3.88 | 0.49 | 4.1 |
| 4/15/2015 10:25:26 | 55.45 | 49.55 | 196 | 3.22 | 0.43 | 10.7 |
| 4/15/2015 10:25:28 | 55.77 | 49.87 | 246 | 3.14 | 0.44 | 13.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:26:03 | 56.10 | 50.20 | 21 | 4.11 | 0.42 | 1.1 |
| 4/15/2015 | 10:26:05 | 56.43 | 50.53 | 155 | 3.62 | 0.41 | 8.5 |
| 4/15/2015 | 10:26:31 | 56.76 | 50.86 | 23 | 3.54 | 0.45 | 1.3 |
| 4/15/2015 | 10:26:32 | 57.09 | 51.19 | 80 | 3.64 | 0.40 | 4.4 |
| 4/15/2015 | 10:26:50 | 57.41 | 51.51 | 24 | 2.51 | 0.38 | 1.3 |
| 4/15/2015 | 10:27:43 | 57.74 | 51.84 | 67 | 3.19 | 0.41 | 3.6 |
| 4/15/2015 | 10:27:44 | 58.07 | 52.17 | 189 | 2.63 | 0.42 | 10.3 |
| 4/15/2015 | 10:28:04 | 58.40 | 52.50 | 78 | 2.82 | 0.41 | 4.3 |
| 4/15/2015 | 10:28:05 | 58.73 | 52.83 | 147 | 2.64 | 0.41 | 8.0 |
| 4/15/2015 | 10:28:12 | 59.06 | 53.16 | 14 | 3.05 | 0.43 | 0.8 |
| 4/15/2015 | 10:28:21 | 59.38 | 53.48 | 38 | 3.79 | 0.41 | 2.1 |
| 4/15/2015 | 10:28:23 | 59.71 | 53.81 | 94 | 3.44 | 0.41 | 5.2 |
| 4/15/2015 | 10:28:24 | 60.04 | 54.14 | 174 | 3.88 | 0.43 | 9.5 |
| 4/15/2015 | 10:29:37 | 60.37 | 54.47 | 54 | 5.38 | 0.46 | 3.0 |
| 4/15/2015 | 10:29:41 | 60.70 | 54.80 | 75 | 4.40 | 0.49 | 4.1 |
| 4/15/2015 | 10:29:45 | 61.02 | 55.12 | 77 | 2.95 | 0.42 | 4.2 |
| 4/15/2015 | 10:29:47 | 61.35 | 55.45 | 125 | 3.64 | 0.41 | 6.8 |
| 4/15/2015 | 10:29:47 | 61.40 | 55.50 | 146 | 3.09 | 0.38 | 8.0 |

## KCB-325-13 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:18:47

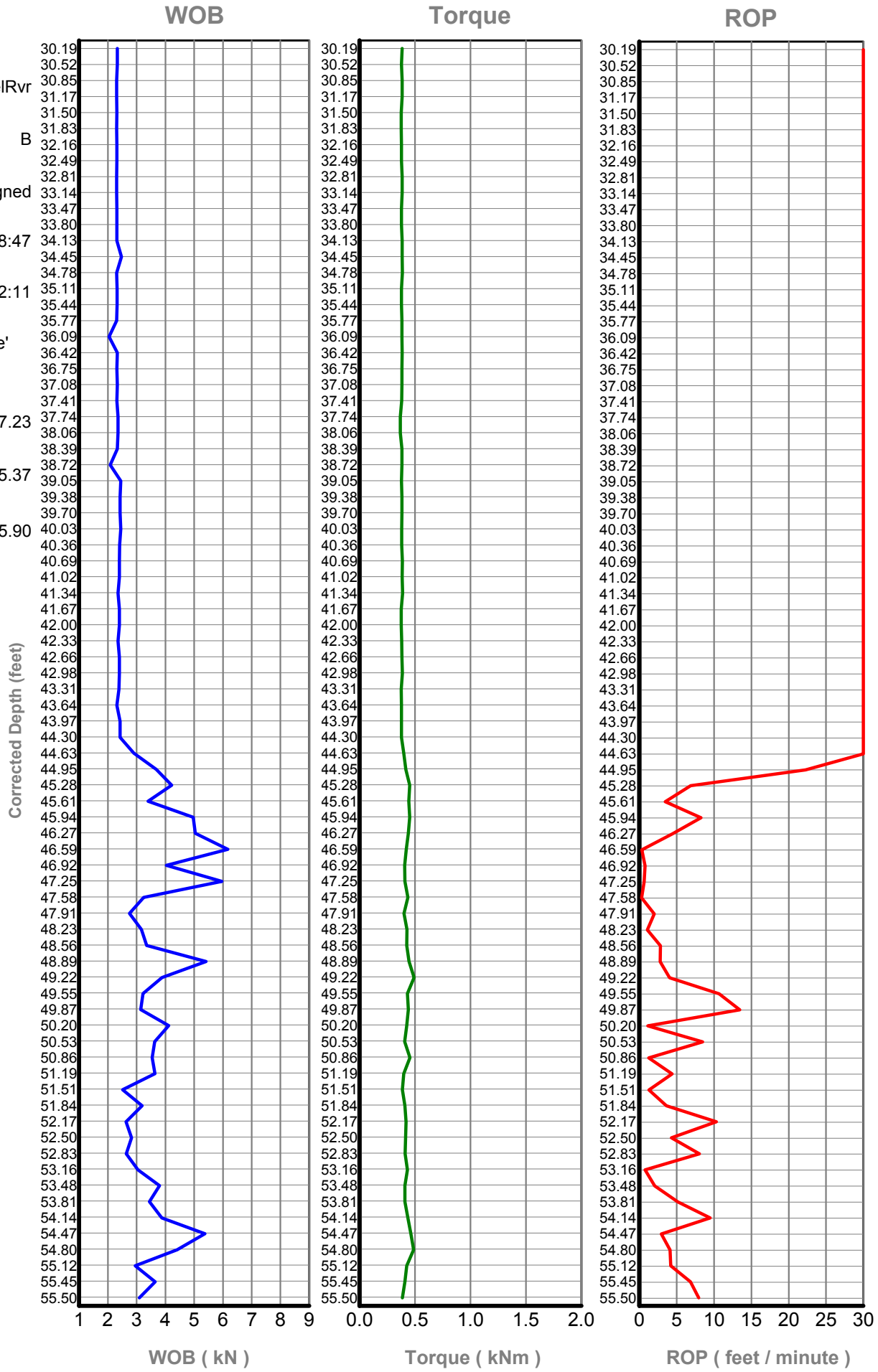
**End Date:**
4/15/2015 10:32:11

**Operator Note:**
'5.9 5.9 b Auto Complete'

**Northing:**
362,097.23

**Easting:**
245,625.37

**Tide (feet):**
5.90



## Hole: KCB-325-14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:26:39 | 33.14 | 30.24 | 937 | 0.31 | 0.37 | 51.2 |
| 4/15/2015 13:26:39 | 33.46 | 30.56 | 942 | 0.30 | 0.37 | 51.5 |
| 4/15/2015 13:26:40 | 33.79 | 30.89 | 937 | 0.30 | 0.36 | 51.2 |
| 4/15/2015 13:26:40 | 34.12 | 31.22 | 942 | 0.30 | 0.37 | 51.5 |
| 4/15/2015 13:26:41 | 34.45 | 31.55 | 942 | 0.30 | 0.37 | 51.5 |
| 4/15/2015 13:26:41 | 34.78 | 31.88 | 926 | 0.30 | 0.37 | 50.6 |
| 4/15/2015 13:26:41 | 35.11 | 32.21 | 925 | 0.30 | 0.38 | 50.6 |
| 4/15/2015 13:26:42 | 35.43 | 32.53 | 925 | 0.30 | 0.37 | 50.6 |
| 4/15/2015 13:26:42 | 35.76 | 32.86 | 925 | 0.30 | 0.37 | 50.6 |
| 4/15/2015 13:26:42 | 36.09 | 33.19 | 917 | 0.30 | 0.37 | 50.1 |
| 4/15/2015 13:26:43 | 36.42 | 33.52 | 908 | 0.30 | 0.37 | 49.7 |
| 4/15/2015 13:26:44 | 36.75 | 33.85 | 911 | 0.29 | 0.37 | 49.8 |
| 4/15/2015 13:26:44 | 37.07 | 34.17 | 902 | 0.29 | 0.37 | 49.3 |
| 4/15/2015 13:26:45 | 37.40 | 34.50 | 902 | 0.29 | 0.37 | 49.3 |
| 4/15/2015 13:26:45 | 37.73 | 34.83 | 905 | 0.30 | 0.37 | 49.5 |
| 4/15/2015 13:26:45 | 38.06 | 35.16 | 910 | 0.30 | 0.37 | 49.8 |
| 4/15/2015 13:26:46 | 38.39 | 35.49 | 910 | 0.30 | 0.37 | 49.8 |
| 4/15/2015 13:26:46 | 38.71 | 35.81 | 905 | 0.29 | 0.37 | 49.5 |
| 4/15/2015 13:26:46 | 39.04 | 36.14 | 901 | 0.30 | 0.37 | 49.3 |
| 4/15/2015 13:26:47 | 39.37 | 36.47 | 905 | 0.30 | 0.37 | 49.5 |
| 4/15/2015 13:26:47 | 39.70 | 36.80 | 899 | 0.30 | 0.37 | 49.2 |
| 4/15/2015 13:26:48 | 40.03 | 37.13 | 899 | 0.30 | 0.37 | 49.2 |
| 4/15/2015 13:26:48 | 40.35 | 37.45 | 911 | 0.30 | 0.37 | 49.8 |
| 4/15/2015 13:26:48 | 40.68 | 37.78 | 908 | 0.29 | 0.38 | 49.6 |
| 4/15/2015 13:26:49 | 41.01 | 38.11 | 902 | 0.30 | 0.37 | 49.3 |
| 4/15/2015 13:26:49 | 41.34 | 38.44 | 902 | 0.30 | 0.37 | 49.3 |
| 4/15/2015 13:26:49 | 41.67 | 38.77 | 899 | 0.30 | 0.37 | 49.2 |
| 4/15/2015 13:26:50 | 41.99 | 39.09 | 902 | 0.29 | 0.37 | 49.3 |
| 4/15/2015 13:26:50 | 42.32 | 39.42 | 893 | 0.30 | 0.37 | 48.8 |
| 4/15/2015 13:26:51 | 42.65 | 39.75 | 893 | 0.30 | 0.37 | 48.8 |
| 4/15/2015 13:26:51 | 42.98 | 40.08 | 893 | 0.26 | 0.37 | 48.8 |
| 4/15/2015 13:27:07 | 43.31 | 40.41 | 0 | 2.27 | 0.37 | 0.0 |
| 4/15/2015 13:27:08 | 43.64 | 40.74 | 118 | 1.95 | 0.37 | 6.4 |
| 4/15/2015 13:27:08 | 43.96 | 41.06 | 269 | 1.75 | 0.37 | 14.7 |
| 4/15/2015 13:27:09 | 44.29 | 41.39 | 463 | 1.87 | 0.37 | 25.3 |
| 4/15/2015 13:27:09 | 44.62 | 41.72 | 463 | 1.87 | 0.37 | 25.3 |
| 4/15/2015 13:27:10 | 44.95 | 42.05 | 463 | 1.87 | 0.37 | 25.3 |
| 4/15/2015 13:27:10 | 45.28 | 42.38 | 642 | 1.90 | 0.37 | 35.1 |
| 4/15/2015 13:27:10 | 45.60 | 42.70 | 814 | 2.08 | 0.36 | 44.5 |
| 4/15/2015 13:27:11 | 45.93 | 43.03 | 814 | 1.77 | 0.37 | 44.5 |
| 4/15/2015 13:27:11 | 46.26 | 43.36 | 814 | 1.77 | 0.37 | 44.5 |
| 4/15/2015 13:27:11 | 46.59 | 43.69 | 889 | 2.38 | 0.38 | 48.6 |
| 4/15/2015 13:27:12 | 46.92 | 44.02 | 911 | 1.88 | 0.37 | 49.8 |
| 4/15/2015 13:27:12 | 47.24 | 44.34 | 894 | 3.54 | 0.40 | 48.9 |
| 4/15/2015 13:27:13 | 47.57 | 44.67 | 865 | 3.04 | 0.44 | 47.3 |
| 4/15/2015 13:27:15 | 47.90 | 45.00 | 415 | 3.96 | 0.45 | 22.7 |
| 4/15/2015 13:27:16 | 48.23 | 45.33 | 225 | 2.25 | 0.42 | 12.3 |
| 4/15/2015 13:27:18 | 48.56 | 45.66 | 243 | 3.10 | 0.45 | 13.3 |
| 4/15/2015 13:27:19 | 48.88 | 45.98 | 166 | 2.99 | 0.41 | 9.1 |
| 4/15/2015 13:27:20 | 49.21 | 46.31 | 257 | 2.65 | 0.38 | 14.1 |
| 4/15/2015 13:27:21 | 49.54 | 46.64 | 387 | 2.70 | 0.41 | 21.2 |
| 4/15/2015 13:27:22 | 49.87 | 46.97 | 393 | 3.03 | 0.40 | 21.5 |
| 4/15/2015 13:27:23 | 50.20 | 47.30 | 454 | 2.33 | 0.40 | 24.8 |
| 4/15/2015 13:27:23 | 50.53 | 47.63 | 474 | 2.27 | 0.40 | 25.9 |
| 4/15/2015 13:27:24 | 50.85 | 47.95 | 497 | 2.60 | 0.41 | 27.2 |
| 4/15/2015 13:27:25 | 51.18 | 48.28 | 490 | 2.35 | 0.40 | 26.8 |
| 4/15/2015 13:27:26 | 51.51 | 48.61 | 499 | 3.33 | 0.41 | 27.3 |
| 4/15/2015 13:27:32 | 51.84 | 48.94 | 0 | 2.79 | 0.40 | 0.0 |
| 4/15/2015 13:27:33 | 52.17 | 49.27 | 88 | 2.80 | 0.40 | 4.8 |
| 4/15/2015 13:27:34 | 52.49 | 49.59 | 257 | 2.31 | 0.40 | 14.0 |
| 4/15/2015 13:27:34 | 52.82 | 49.92 | 362 | 3.38 | 0.40 | 19.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 13:27:36 | 53.15 | 50.25 | 427 | 2.97 | 0.44 | 23.3 |
| 4/15/2015 | 13:27:37 | 53.48 | 50.58 | 416 | 3.24 | 0.42 | 22.8 |
| 4/15/2015 | 13:27:38 | 53.81 | 50.91 | 376 | 3.43 | 0.42 | 20.5 |
| 4/15/2015 | 13:27:42 | 54.13 | 51.23 | 0 | 3.36 | 0.41 | 0.0 |
| 4/15/2015 | 13:27:43 | 54.46 | 51.56 | 105 | 2.90 | 0.40 | 5.7 |
| 4/15/2015 | 13:27:44 | 54.79 | 51.89 | 250 | 3.37 | 0.40 | 13.7 |
| 4/15/2015 | 13:27:46 | 55.12 | 52.22 | 315 | 4.08 | 0.39 | 17.2 |
| 4/15/2015 | 13:27:47 | 55.45 | 52.55 | 308 | 3.33 | 0.40 | 16.9 |
| 4/15/2015 | 13:27:51 | 55.77 | 52.87 | 57 | 3.79 | 0.36 | 3.1 |
| 4/15/2015 | 13:27:52 | 56.10 | 53.20 | 117 | 2.91 | 0.44 | 6.4 |
| 4/15/2015 | 13:27:53 | 56.43 | 53.53 | 279 | 2.94 | 0.41 | 15.2 |
| 4/15/2015 | 13:27:55 | 56.76 | 53.86 | 263 | 3.26 | 0.40 | 14.4 |
| 4/15/2015 | 13:27:56 | 57.09 | 54.19 | 266 | 3.68 | 0.44 | 14.5 |
| 4/15/2015 | 13:27:58 | 57.41 | 54.51 | 267 | 2.88 | 0.43 | 14.6 |
| 4/15/2015 | 13:28:01 | 57.74 | 54.84 | 99 | 2.97 | 0.42 | 5.4 |
| 4/15/2015 | 13:28:02 | 58.07 | 55.17 | 184 | 3.11 | 0.42 | 10.1 |
| 4/15/2015 | 13:28:07 | 58.39 | 55.49 | 29 | 3.35 | 0.44 | 1.6 |

## KCB-325-14 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:22:05

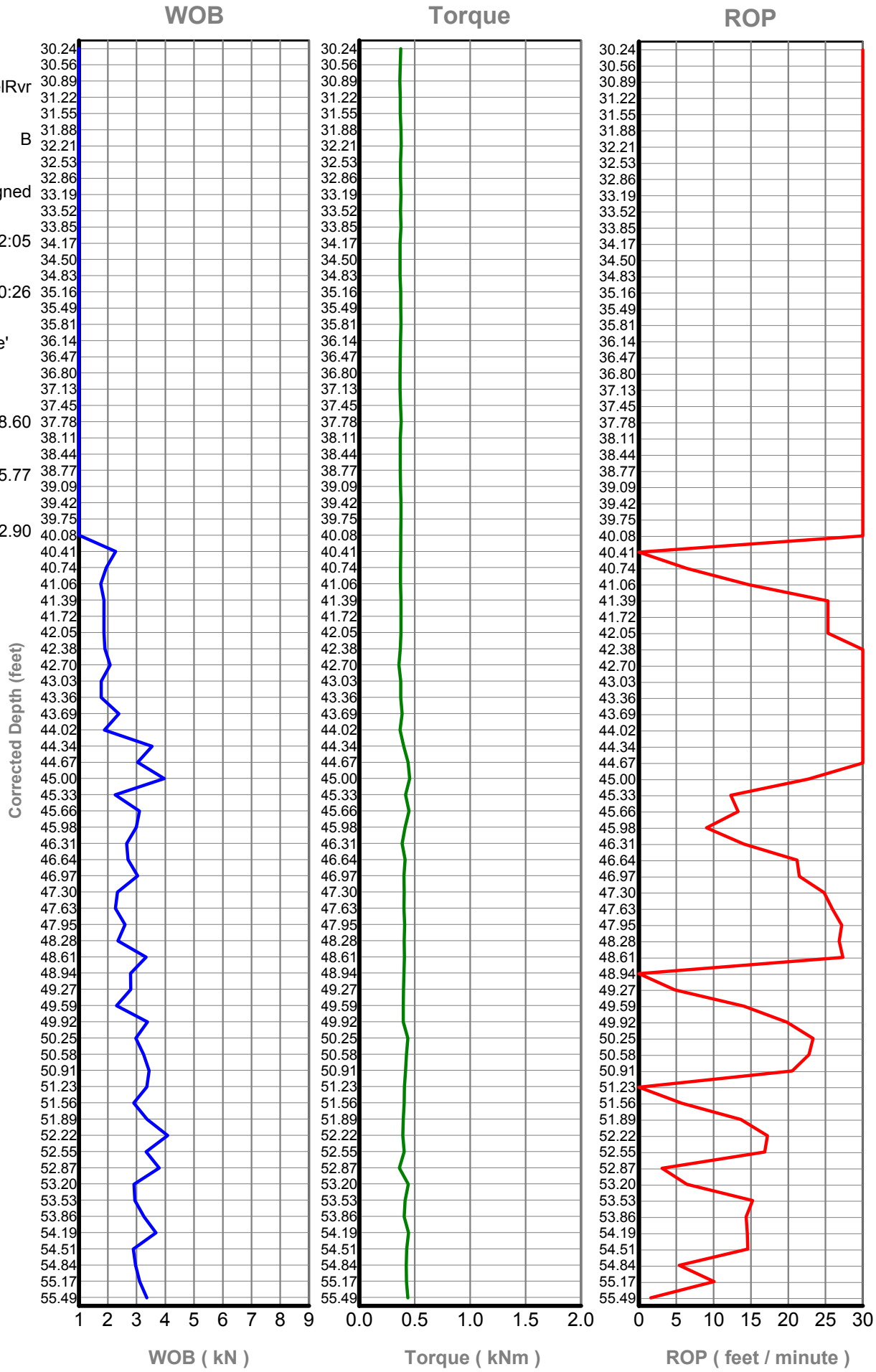
**End Date:**
4/15/2015 13:30:26

**Operator Note:**
'2.9 3.2 b Auto Complete'

**Northing:**
362,078.60

**Easting:**
245,625.77

**Tide (feet):**
2.90



## Hole: KCB-325-15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:36:43 | 36.09 | 30.29 | 823 | 0.33 | 0.38 | 45.0 |
| 4/15/2015 10:36:44 | 36.42 | 30.62 | 823 | 0.33 | 0.38 | 45.0 |
| 4/15/2015 10:36:44 | 36.75 | 30.95 | 823 | 0.32 | 0.38 | 45.0 |
| 4/15/2015 10:36:44 | 37.07 | 31.27 | 827 | 0.33 | 0.37 | 45.2 |
| 4/15/2015 10:36:45 | 37.40 | 31.60 | 819 | 0.33 | 0.37 | 44.8 |
| 4/15/2015 10:36:45 | 37.73 | 31.93 | 837 | 0.32 | 0.38 | 45.8 |
| 4/15/2015 10:36:46 | 38.06 | 32.26 | 842 | 0.33 | 0.37 | 46.1 |
| 4/15/2015 10:36:46 | 38.39 | 32.59 | 842 | 0.33 | 0.37 | 46.1 |
| 4/15/2015 10:36:46 | 38.71 | 32.91 | 846 | 0.37 | 0.37 | 46.3 |
| 4/15/2015 10:36:47 | 39.04 | 33.24 | 836 | 0.32 | 0.37 | 45.7 |
| 4/15/2015 10:36:47 | 39.37 | 33.57 | 834 | 0.33 | 0.37 | 45.6 |
| 4/15/2015 10:36:48 | 39.70 | 33.90 | 840 | 0.33 | 0.38 | 45.9 |
| 4/15/2015 10:36:48 | 40.03 | 34.23 | 840 | 0.33 | 0.38 | 45.9 |
| 4/15/2015 10:36:48 | 40.35 | 34.55 | 842 | 0.33 | 0.38 | 46.0 |
| 4/15/2015 10:36:49 | 40.68 | 34.88 | 826 | 0.33 | 0.38 | 45.2 |
| 4/15/2015 10:36:50 | 41.01 | 35.21 | 819 | 0.32 | 0.37 | 44.8 |
| 4/15/2015 10:36:50 | 41.34 | 35.54 | 812 | 0.33 | 0.37 | 44.4 |
| 4/15/2015 10:36:51 | 41.67 | 35.87 | 812 | 0.33 | 0.37 | 44.4 |
| 4/15/2015 10:36:51 | 41.99 | 36.19 | 807 | 0.26 | 0.34 | 44.1 |
| 4/15/2015 10:36:55 | 42.32 | 36.52 | 0 | 2.03 | 0.37 | 0.0 |
| 4/15/2015 10:36:55 | 42.65 | 36.85 | 146 | 2.04 | 0.38 | 8.0 |
| 4/15/2015 10:36:56 | 42.98 | 37.18 | 286 | 2.06 | 0.37 | 15.7 |
| 4/15/2015 10:36:56 | 43.31 | 37.51 | 286 | 2.06 | 0.37 | 15.7 |
| 4/15/2015 10:36:56 | 43.64 | 37.84 | 286 | 2.04 | 0.37 | 15.7 |
| 4/15/2015 10:36:57 | 43.96 | 38.16 | 477 | 2.05 | 0.37 | 26.1 |
| 4/15/2015 10:36:57 | 44.29 | 38.49 | 654 | 2.05 | 0.37 | 35.8 |
| 4/15/2015 10:36:58 | 44.62 | 38.82 | 654 | 2.05 | 0.37 | 35.8 |
| 4/15/2015 10:36:58 | 44.95 | 39.15 | 822 | 2.06 | 0.37 | 45.0 |
| 4/15/2015 10:36:58 | 45.28 | 39.48 | 838 | 2.07 | 0.37 | 45.8 |
| 4/15/2015 10:36:59 | 45.60 | 39.80 | 880 | 2.06 | 0.37 | 48.1 |
| 4/15/2015 10:36:59 | 45.93 | 40.13 | 868 | 2.24 | 0.37 | 47.5 |
| 4/15/2015 10:37:00 | 46.26 | 40.46 | 868 | 2.24 | 0.37 | 47.5 |
| 4/15/2015 10:37:00 | 46.59 | 40.79 | 865 | 2.06 | 0.37 | 47.3 |
| 4/15/2015 10:37:01 | 46.92 | 41.12 | 858 | 2.06 | 0.37 | 46.9 |
| 4/15/2015 10:37:01 | 47.24 | 41.44 | 883 | 2.05 | 0.37 | 48.3 |
| 4/15/2015 10:37:02 | 47.57 | 41.77 | 882 | 2.04 | 0.37 | 48.2 |
| 4/15/2015 10:37:02 | 47.90 | 42.10 | 882 | 2.04 | 0.37 | 48.2 |
| 4/15/2015 10:37:02 | 48.23 | 42.43 | 872 | 2.05 | 0.37 | 47.7 |
| 4/15/2015 10:37:03 | 48.56 | 42.76 | 867 | 2.04 | 0.38 | 47.4 |
| 4/15/2015 10:37:03 | 48.88 | 43.08 | 887 | 2.03 | 0.37 | 48.5 |
| 4/15/2015 10:37:04 | 49.21 | 43.41 | 887 | 2.03 | 0.37 | 48.5 |
| 4/15/2015 10:37:04 | 49.54 | 43.74 | 850 | 2.02 | 0.37 | 46.5 |
| 4/15/2015 10:37:04 | 49.87 | 44.07 | 853 | 2.05 | 0.37 | 46.6 |
| 4/15/2015 10:37:05 | 50.20 | 44.40 | 853 | 3.19 | 0.41 | 46.6 |
| 4/15/2015 10:37:08 | 50.53 | 44.73 | 94 | 3.69 | 0.44 | 5.2 |
| 4/15/2015 10:37:09 | 50.85 | 45.05 | 126 | 3.65 | 0.42 | 6.9 |
| 4/15/2015 10:37:10 | 51.18 | 45.38 | 252 | 2.49 | 0.40 | 13.8 |
| 4/15/2015 10:37:12 | 51.51 | 45.71 | 363 | 4.36 | 0.41 | 19.8 |
| 4/15/2015 10:37:19 | 51.84 | 46.04 | 13 | 3.49 | 0.45 | 0.7 |
| 4/15/2015 10:37:21 | 52.17 | 46.37 | 109 | 3.32 | 0.43 | 6.0 |
| 4/15/2015 10:37:22 | 52.49 | 46.69 | 201 | 3.29 | 0.42 | 11.0 |
| 4/15/2015 10:37:25 | 52.82 | 47.02 | 168 | 3.20 | 0.43 | 9.2 |
| 4/15/2015 10:37:30 | 53.15 | 47.35 | 65 | 5.36 | 0.45 | 3.6 |
| 4/15/2015 10:39:00 | 53.48 | 47.68 | 3 | 6.71 | 0.44 | 0.2 |
| 4/15/2015 10:39:01 | 53.81 | 48.01 | 46 | 2.97 | 0.41 | 2.5 |
| 4/15/2015 10:39:02 | 54.13 | 48.33 | 141 | 2.48 | 0.40 | 7.7 |
| 4/15/2015 10:39:27 | 54.46 | 48.66 | 0 | 2.19 | 0.39 | 0.0 |
| 4/15/2015 10:39:29 | 54.79 | 48.99 | 143 | 4.05 | 0.45 | 7.8 |
| 4/15/2015 10:39:40 | 55.12 | 49.32 | 0 | 3.55 | 0.45 | 0.0 |
| 4/15/2015 10:39:42 | 55.45 | 49.65 | 160 | 4.20 | 0.41 | 8.8 |
| 4/15/2015 10:39:42 | 55.77 | 49.97 | 211 | 3.08 | 0.41 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:39:57 | 56.10 | 50.30 | 0 | 2.61 | 0.40 | 0.0 |
| 4/15/2015 | 10:40:00 | 56.43 | 50.63 | 101 | 4.41 | 0.43 | 5.5 |
| 4/15/2015 | 10:40:03 | 56.76 | 50.96 | 117 | 4.68 | 0.43 | 6.4 |
| 4/15/2015 | 10:40:07 | 57.09 | 51.29 | 106 | 3.16 | 0.43 | 5.8 |
| 4/15/2015 | 10:40:10 | 57.41 | 51.61 | 121 | 3.81 | 0.44 | 6.6 |
| 4/15/2015 | 10:40:13 | 57.74 | 51.94 | 83 | 2.76 | 0.44 | 4.5 |
| 4/15/2015 | 10:40:16 | 58.07 | 52.27 | 135 | 2.65 | 0.42 | 7.4 |
| 4/15/2015 | 10:40:17 | 58.40 | 52.60 | 226 | 2.69 | 0.43 | 12.4 |
| 4/15/2015 | 10:40:21 | 58.73 | 52.93 | 107 | 2.85 | 0.41 | 5.8 |
| 4/15/2015 | 10:40:31 | 59.06 | 53.26 | 82 | 5.21 | 0.45 | 4.5 |
| 4/15/2015 | 10:40:36 | 59.38 | 53.58 | 69 | 4.71 | 0.45 | 3.8 |
| 4/15/2015 | 10:40:48 | 59.71 | 53.91 | 9 | 3.36 | 0.45 | 0.5 |
| 4/15/2015 | 10:41:06 | 60.04 | 54.24 | 31 | 3.73 | 0.44 | 1.7 |
| 4/15/2015 | 10:41:08 | 60.37 | 54.57 | 81 | 2.97 | 0.41 | 4.4 |
| 4/15/2015 | 10:41:14 | 60.70 | 54.90 | 86 | 2.00 | 0.42 | 4.7 |
| 4/15/2015 | 10:41:16 | 60.91 | 55.11 | 88 | 1.91 | 0.36 | 4.8 |

## KCB-325-15 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:34:47

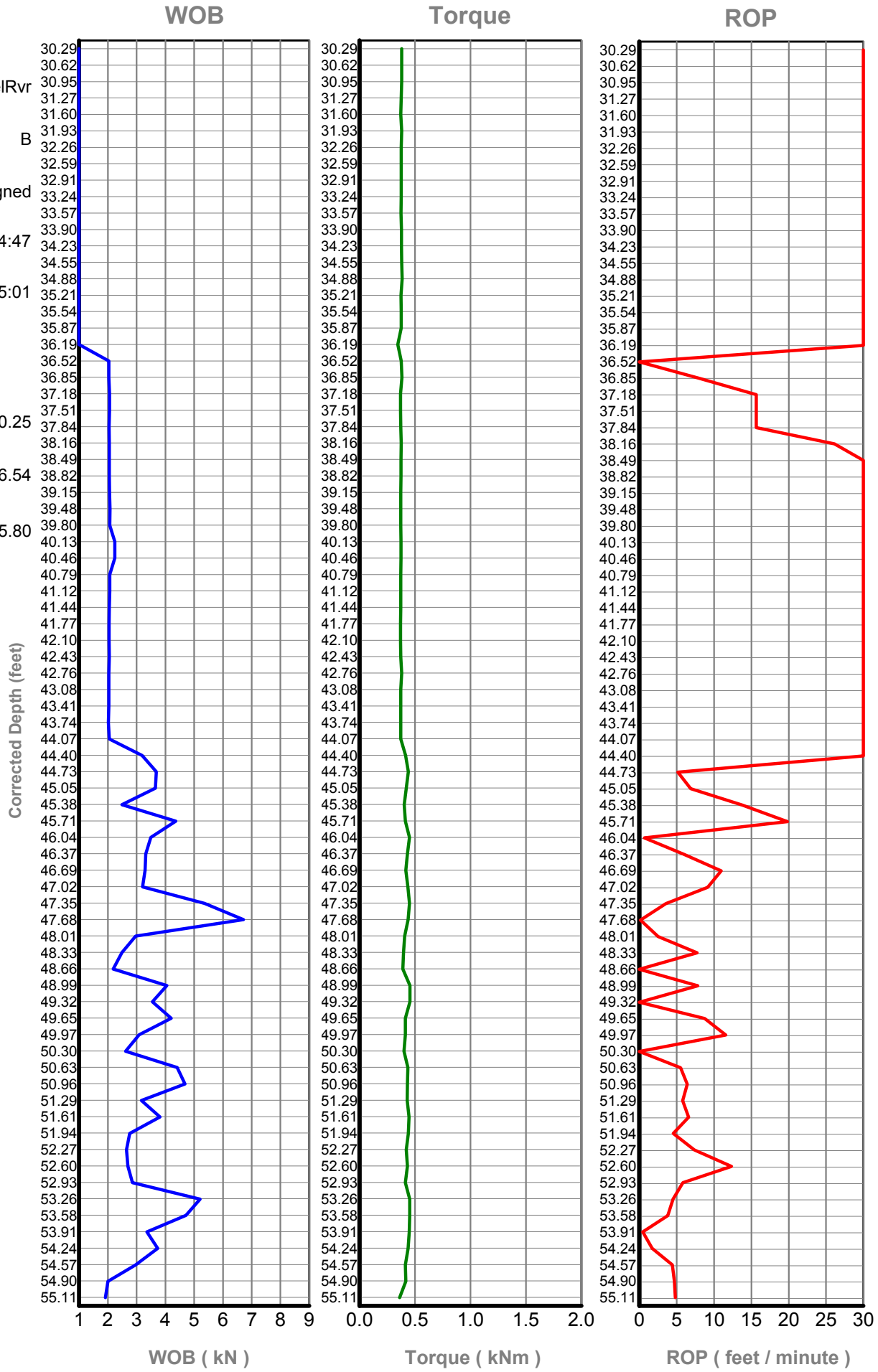
**End Date:**
4/15/2015 10:45:01

**Operator Note:**
'5.8 Tide changed 5.8'

**Northing:**
362,100.25

**Easting:**
245,606.54

**Tide (feet):**
5.80



## Hole: KCB-325-16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 13:33:43 | 33.14 | 30.24 | 939 | 0.31 | 0.37 | 51.3 |
| 4/15/2015 13:33:43 | 33.46 | 30.56 | 950 | 0.29 | 0.36 | 52.0 |
| 4/15/2015 13:33:43 | 33.79 | 30.89 | 936 | 0.29 | 0.36 | 51.2 |
| 4/15/2015 13:33:44 | 34.12 | 31.22 | 936 | 0.29 | 0.36 | 51.2 |
| 4/15/2015 13:33:44 | 34.45 | 31.55 | 945 | 0.29 | 0.36 | 51.7 |
| 4/15/2015 13:33:44 | 34.78 | 31.88 | 950 | 0.29 | 0.37 | 52.0 |
| 4/15/2015 13:33:45 | 35.11 | 32.21 | 977 | 0.29 | 0.37 | 53.4 |
| 4/15/2015 13:33:45 | 35.43 | 32.53 | 977 | 0.29 | 0.37 | 53.4 |
| 4/15/2015 13:33:45 | 35.76 | 32.86 | 945 | 0.29 | 0.37 | 51.7 |
| 4/15/2015 13:33:46 | 36.09 | 33.19 | 954 | 0.29 | 0.37 | 52.2 |
| 4/15/2015 13:33:46 | 36.42 | 33.52 | 951 | 2.14 | 0.37 | 52.0 |
| 4/15/2015 13:33:47 | 36.75 | 33.85 | 951 | 2.14 | 0.37 | 52.0 |
| 4/15/2015 13:33:47 | 37.07 | 34.17 | 948 | 1.73 | 0.37 | 51.9 |
| 4/15/2015 13:33:47 | 37.40 | 34.50 | 934 | 1.74 | 0.36 | 51.1 |
| 4/15/2015 13:33:48 | 37.73 | 34.83 | 934 | 1.74 | 0.36 | 51.1 |
| 4/15/2015 13:33:48 | 38.06 | 35.16 | 948 | 1.75 | 0.37 | 51.9 |
| 4/15/2015 13:33:48 | 38.39 | 35.49 | 951 | 1.78 | 0.36 | 52.0 |
| 4/15/2015 13:33:49 | 38.71 | 35.81 | 948 | 1.77 | 0.37 | 51.8 |
| 4/15/2015 13:33:49 | 39.04 | 36.14 | 948 | 1.77 | 0.37 | 51.8 |
| 4/15/2015 13:33:49 | 39.37 | 36.47 | 942 | 1.75 | 0.38 | 51.5 |
| 4/15/2015 13:33:50 | 39.70 | 36.80 | 948 | 1.75 | 0.36 | 51.8 |
| 4/15/2015 13:33:51 | 40.03 | 37.13 | 948 | 1.75 | 0.36 | 51.8 |
| 4/15/2015 13:33:51 | 40.35 | 37.45 | 954 | 1.75 | 0.37 | 52.2 |
| 4/15/2015 13:33:51 | 40.68 | 37.78 | 954 | 1.74 | 0.37 | 52.2 |
| 4/15/2015 13:33:52 | 41.01 | 38.11 | 948 | 1.75 | 0.37 | 51.9 |
| 4/15/2015 13:33:52 | 41.34 | 38.44 | 948 | 1.75 | 0.37 | 51.9 |
| 4/15/2015 13:33:52 | 41.67 | 38.77 | 916 | 1.74 | 0.37 | 50.1 |
| 4/15/2015 13:33:53 | 41.99 | 39.09 | 916 | 1.74 | 0.37 | 50.1 |
| 4/15/2015 13:33:53 | 42.32 | 39.42 | 944 | 1.74 | 0.37 | 51.6 |
| 4/15/2015 13:33:54 | 42.65 | 39.75 | 944 | 1.74 | 0.37 | 51.6 |
| 4/15/2015 13:33:54 | 42.98 | 40.08 | 930 | 1.76 | 0.37 | 50.8 |
| 4/15/2015 13:33:54 | 43.31 | 40.41 | 918 | 1.74 | 0.37 | 50.2 |
| 4/15/2015 13:33:55 | 43.64 | 40.74 | 912 | 1.74 | 0.37 | 49.9 |
| 4/15/2015 13:33:55 | 43.96 | 41.06 | 912 | 1.74 | 0.37 | 49.9 |
| 4/15/2015 13:33:55 | 44.29 | 41.39 | 953 | 1.74 | 0.37 | 52.1 |
| 4/15/2015 13:33:56 | 44.62 | 41.72 | 920 | 1.74 | 0.37 | 50.3 |
| 4/15/2015 13:33:56 | 44.95 | 42.05 | 920 | 1.74 | 0.37 | 50.3 |
| 4/15/2015 13:33:56 | 45.28 | 42.38 | 920 | 1.74 | 0.37 | 50.3 |
| 4/15/2015 13:33:57 | 45.60 | 42.70 | 932 | 1.74 | 0.37 | 51.0 |
| 4/15/2015 13:33:57 | 45.93 | 43.03 | 940 | 1.87 | 0.37 | 51.4 |
| 4/15/2015 13:33:58 | 46.26 | 43.36 | 940 | 1.87 | 0.37 | 51.4 |
| 4/15/2015 13:33:58 | 46.59 | 43.69 | 936 | 2.53 | 0.39 | 51.2 |
| 4/15/2015 13:33:58 | 46.92 | 44.02 | 936 | 2.31 | 0.39 | 51.2 |
| 4/15/2015 13:33:59 | 47.24 | 44.34 | 899 | 1.72 | 0.37 | 49.1 |
| 4/15/2015 13:33:59 | 47.57 | 44.67 | 894 | 1.85 | 0.37 | 48.9 |
| 4/15/2015 13:34:00 | 47.90 | 45.00 | 894 | 1.85 | 0.37 | 48.9 |
| 4/15/2015 13:34:01 | 48.23 | 45.33 | 800 | 4.85 | 0.46 | 43.7 |
| 4/15/2015 13:34:05 | 48.56 | 45.66 | 40 | 3.01 | 0.43 | 2.2 |
| 4/15/2015 13:34:06 | 48.88 | 45.98 | 185 | 3.03 | 0.42 | 10.1 |
| 4/15/2015 13:34:07 | 49.21 | 46.31 | 324 | 2.99 | 0.41 | 17.7 |
| 4/15/2015 13:34:08 | 49.54 | 46.64 | 352 | 2.45 | 0.39 | 19.2 |
| 4/15/2015 13:34:08 | 49.87 | 46.97 | 365 | 2.44 | 0.40 | 20.0 |
| 4/15/2015 13:34:09 | 50.20 | 47.30 | 365 | 2.19 | 0.40 | 20.0 |
| 4/15/2015 13:34:14 | 50.53 | 47.63 | 102 | 2.10 | 0.41 | 5.6 |
| 4/15/2015 13:34:15 | 50.85 | 47.95 | 185 | 2.29 | 0.41 | 10.1 |
| 4/15/2015 13:34:15 | 51.18 | 48.28 | 300 | 2.19 | 0.44 | 16.4 |
| 4/15/2015 13:34:16 | 51.51 | 48.61 | 378 | 2.94 | 0.41 | 20.7 |
| 4/15/2015 13:34:17 | 51.84 | 48.94 | 452 | 2.10 | 0.40 | 24.7 |
| 4/15/2015 13:34:17 | 52.17 | 49.27 | 479 | 2.84 | 0.41 | 26.2 |
| 4/15/2015 13:34:18 | 52.49 | 49.59 | 504 | 2.55 | 0.40 | 27.6 |
| 4/15/2015 13:34:19 | 52.82 | 49.92 | 494 | 3.67 | 0.42 | 27.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 13:34:24 | 53.15 | 50.25 | 74 | 2.86 | 0.41 | 4.1 |
| 4/15/2015 | 13:34:25 | 53.48 | 50.58 | 207 | 2.63 | 0.42 | 11.3 |
| 4/15/2015 | 13:34:25 | 53.81 | 50.91 | 207 | 2.42 | 0.42 | 11.3 |
| 4/15/2015 | 13:34:26 | 54.13 | 51.23 | 369 | 3.39 | 0.41 | 20.2 |
| 4/15/2015 | 13:34:27 | 54.46 | 51.56 | 392 | 3.42 | 0.43 | 21.4 |
| 4/15/2015 | 13:34:32 | 54.79 | 51.89 | 0 | 2.78 | 0.43 | 0.0 |
| 4/15/2015 | 13:34:33 | 55.12 | 52.22 | 92 | 3.34 | 0.43 | 5.1 |
| 4/15/2015 | 13:34:35 | 55.45 | 52.55 | 218 | 3.28 | 0.44 | 11.9 |
| 4/15/2015 | 13:34:38 | 55.77 | 52.87 | 125 | 3.18 | 0.44 | 6.8 |
| 4/15/2015 | 13:34:39 | 56.10 | 53.20 | 88 | 2.69 | 0.41 | 4.8 |
| 4/15/2015 | 13:34:41 | 56.43 | 53.53 | 225 | 3.29 | 0.44 | 12.3 |
| 4/15/2015 | 13:34:42 | 56.76 | 53.86 | 288 | 2.73 | 0.42 | 15.7 |
| 4/15/2015 | 13:34:51 | 57.09 | 54.19 | 116 | 3.08 | 0.43 | 6.4 |
| 4/15/2015 | 13:34:53 | 57.41 | 54.51 | 225 | 3.13 | 0.44 | 12.3 |
| 4/15/2015 | 13:34:59 | 57.74 | 54.84 | 40 | 3.17 | 0.42 | 2.2 |
| 4/15/2015 | 13:35:00 | 58.07 | 55.17 | 150 | 3.11 | 0.44 | 8.2 |
| 4/15/2015 | 13:35:00 | 58.11 | 55.21 | 207 | 4.83 | 0.45 | 11.3 |

## KCB-325-16 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 13:31:43

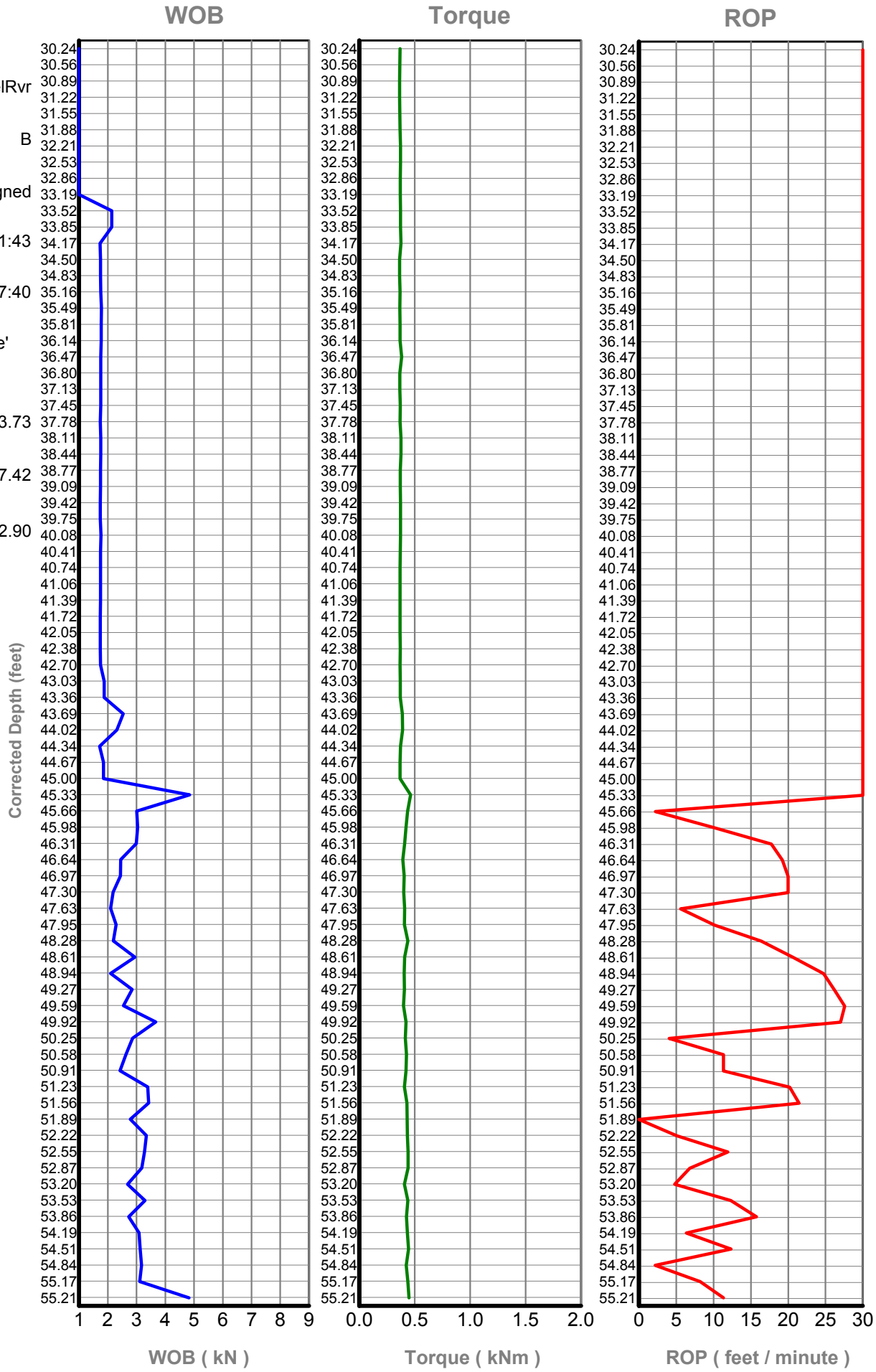
**End Date:**
4/15/2015 13:37:40

**Operator Note:**
'2.9 3.0 b Auto Complete'

**Northing:**
362,083.73

**Easting:**
245,627.42

**Tide (feet):**
2.90



## Hole: KCB-325-17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:48:08 | 35.76 | 30.06 | 846 | 0.32 | 0.37 | 46.3 |
| 4/15/2015 10:48:09 | 36.09 | 30.39 | 849 | 0.32 | 0.37 | 46.4 |
| 4/15/2015 10:48:09 | 36.42 | 30.72 | 849 | 0.32 | 0.37 | 46.4 |
| 4/15/2015 10:48:10 | 36.75 | 31.05 | 843 | 0.32 | 0.38 | 46.1 |
| 4/15/2015 10:48:10 | 37.07 | 31.37 | 843 | 0.32 | 0.38 | 46.1 |
| 4/15/2015 10:48:10 | 37.40 | 31.70 | 843 | 0.32 | 0.37 | 46.1 |
| 4/15/2015 10:48:11 | 37.73 | 32.03 | 874 | 0.32 | 0.38 | 47.8 |
| 4/15/2015 10:48:11 | 38.06 | 32.36 | 873 | 0.35 | 0.37 | 47.7 |
| 4/15/2015 10:48:12 | 38.39 | 32.69 | 873 | 0.35 | 0.37 | 47.7 |
| 4/15/2015 10:48:12 | 38.71 | 33.01 | 873 | 0.32 | 0.38 | 47.8 |
| 4/15/2015 10:48:12 | 39.04 | 33.34 | 859 | 0.33 | 0.37 | 46.9 |
| 4/15/2015 10:48:13 | 39.37 | 33.67 | 864 | 0.32 | 0.37 | 47.3 |
| 4/15/2015 10:48:13 | 39.70 | 34.00 | 864 | 0.31 | 0.37 | 47.3 |
| 4/15/2015 10:48:14 | 40.03 | 34.33 | 864 | 0.31 | 0.37 | 47.3 |
| 4/15/2015 10:48:14 | 40.35 | 34.65 | 856 | 0.32 | 0.38 | 46.8 |
| 4/15/2015 10:48:14 | 40.68 | 34.98 | 856 | 1.66 | 0.37 | 46.8 |
| 4/15/2015 10:48:15 | 41.01 | 35.31 | 856 | 2.00 | 0.37 | 46.8 |
| 4/15/2015 10:48:15 | 41.34 | 35.64 | 861 | 2.01 | 0.37 | 47.1 |
| 4/15/2015 10:48:16 | 41.67 | 35.97 | 861 | 2.01 | 0.37 | 47.1 |
| 4/15/2015 10:48:16 | 41.99 | 36.29 | 864 | 2.01 | 0.37 | 47.3 |
| 4/15/2015 10:48:16 | 42.32 | 36.62 | 876 | 2.01 | 0.37 | 47.9 |
| 4/15/2015 10:48:17 | 42.65 | 36.95 | 877 | 2.00 | 0.37 | 47.9 |
| 4/15/2015 10:48:18 | 42.98 | 37.28 | 893 | 2.01 | 0.36 | 48.8 |
| 4/15/2015 10:48:18 | 43.31 | 37.61 | 893 | 2.01 | 0.36 | 48.8 |
| 4/15/2015 10:48:30 | 43.64 | 37.94 | 18 | 1.98 | 0.37 | 1.0 |
| 4/15/2015 10:48:31 | 43.96 | 38.26 | 18 | 1.98 | 0.37 | 1.0 |
| 4/15/2015 10:48:31 | 44.29 | 38.59 | 18 | 1.98 | 0.37 | 1.0 |
| 4/15/2015 10:48:31 | 44.62 | 38.92 | 211 | 1.98 | 0.37 | 11.5 |
| 4/15/2015 10:48:32 | 44.95 | 39.25 | 382 | 1.96 | 0.37 | 20.9 |
| 4/15/2015 10:48:32 | 45.28 | 39.58 | 570 | 1.97 | 0.37 | 31.2 |
| 4/15/2015 10:48:33 | 45.60 | 39.90 | 570 | 1.97 | 0.37 | 31.2 |
| 4/15/2015 10:48:33 | 45.93 | 40.23 | 750 | 1.95 | 0.37 | 41.0 |
| 4/15/2015 10:48:33 | 46.26 | 40.56 | 918 | 1.95 | 0.37 | 50.2 |
| 4/15/2015 10:48:34 | 46.59 | 40.89 | 905 | 1.95 | 0.37 | 49.5 |
| 4/15/2015 10:48:34 | 46.92 | 41.22 | 905 | 1.95 | 0.37 | 49.5 |
| 4/15/2015 10:48:34 | 47.24 | 41.54 | 908 | 1.93 | 0.37 | 49.6 |
| 4/15/2015 10:48:35 | 47.57 | 41.87 | 911 | 1.96 | 0.36 | 49.8 |
| 4/15/2015 10:48:35 | 47.90 | 42.20 | 911 | 1.95 | 0.37 | 49.8 |
| 4/15/2015 10:48:36 | 48.23 | 42.53 | 895 | 2.10 | 0.38 | 48.9 |
| 4/15/2015 10:48:36 | 48.56 | 42.86 | 895 | 2.10 | 0.38 | 48.9 |
| 4/15/2015 10:48:36 | 48.88 | 43.18 | 897 | 2.44 | 0.39 | 49.0 |
| 4/15/2015 10:48:37 | 49.21 | 43.51 | 737 | 3.09 | 0.43 | 40.3 |
| 4/15/2015 10:48:39 | 49.54 | 43.84 | 361 | 3.03 | 0.42 | 19.7 |
| 4/15/2015 10:48:41 | 49.87 | 44.17 | 164 | 4.54 | 0.44 | 9.0 |
| 4/15/2015 10:48:44 | 50.20 | 44.50 | 129 | 3.62 | 0.42 | 7.0 |
| 4/15/2015 10:48:50 | 50.53 | 44.83 | 63 | 3.20 | 0.43 | 3.5 |
| 4/15/2015 10:48:54 | 50.85 | 45.15 | 0 | 2.29 | 0.39 | 0.0 |
| 4/15/2015 10:49:00 | 51.18 | 45.48 | 64 | 3.51 | 0.41 | 3.5 |
| 4/15/2015 10:49:05 | 51.51 | 45.81 | 46 | 2.04 | 0.37 | 2.5 |
| 4/15/2015 10:49:06 | 51.84 | 46.14 | 149 | 4.51 | 0.45 | 8.1 |
| 4/15/2015 10:49:21 | 52.17 | 46.47 | 5 | 4.19 | 0.45 | 0.3 |
| 4/15/2015 10:49:34 | 52.49 | 46.79 | 14 | 3.16 | 0.39 | 0.8 |
| 4/15/2015 10:49:43 | 52.82 | 47.12 | 18 | 4.18 | 0.45 | 1.0 |
| 4/15/2015 10:49:56 | 53.15 | 47.45 | 45 | 7.52 | 0.44 | 2.4 |
| 4/15/2015 10:50:01 | 53.48 | 47.78 | 56 | 5.97 | 0.46 | 3.1 |
| 4/15/2015 10:50:02 | 53.81 | 48.11 | 97 | 4.01 | 0.45 | 5.3 |
| 4/15/2015 10:50:22 | 54.13 | 48.43 | 108 | 2.89 | 0.40 | 5.9 |
| 4/15/2015 10:52:24 | 54.46 | 48.76 | 82 | 5.29 | 0.46 | 4.5 |
| 4/15/2015 10:52:26 | 54.79 | 49.09 | 190 | 3.94 | 0.46 | 10.4 |
| 4/15/2015 10:52:27 | 55.12 | 49.42 | 248 | 2.95 | 0.41 | 13.6 |
| 4/15/2015 10:52:30 | 55.45 | 49.75 | 200 | 4.27 | 0.44 | 10.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:52:49 | 55.77 | 50.07 | 58 | 3.49 | 0.45 | 3.2 |
| 4/15/2015 | 10:52:50 | 56.10 | 50.40 | 170 | 3.14 | 0.43 | 9.3 |
| 4/15/2015 | 10:52:51 | 56.43 | 50.73 | 238 | 3.39 | 0.42 | 13.0 |
| 4/15/2015 | 10:53:23 | 56.76 | 51.06 | 0 | 3.90 | 0.42 | 0.0 |
| 4/15/2015 | 10:53:35 | 57.09 | 51.39 | 33 | 3.15 | 0.42 | 1.8 |
| 4/15/2015 | 10:53:35 | 57.41 | 51.71 | 102 | 3.51 | 0.42 | 5.6 |
| 4/15/2015 | 10:54:05 | 57.74 | 52.04 | 56 | 3.39 | 0.44 | 3.1 |
| 4/15/2015 | 10:54:06 | 58.07 | 52.37 | 139 | 3.12 | 0.39 | 7.6 |
| 4/15/2015 | 10:54:30 | 58.40 | 52.70 | 0 | 2.82 | 0.41 | 0.0 |
| 4/15/2015 | 10:54:54 | 58.73 | 53.03 | 17 | 3.22 | 0.44 | 1.0 |
| 4/15/2015 | 10:56:04 | 59.06 | 53.36 | 3 | 3.84 | 0.44 | 0.2 |
| 4/15/2015 | 10:56:13 | 59.38 | 53.68 | 0 | 2.95 | 0.37 | 0.0 |
| 4/15/2015 | 10:56:40 | 59.71 | 54.01 | 71 | 2.82 | 0.41 | 3.9 |
| 4/15/2015 | 10:56:52 | 60.04 | 54.34 | 20 | 3.52 | 0.46 | 1.1 |
| 4/15/2015 | 10:56:56 | 60.37 | 54.67 | 29 | 3.20 | 0.42 | 1.6 |
| 4/15/2015 | 10:57:01 | 60.70 | 55.00 | 11 | 3.34 | 0.36 | 0.6 |
| 4/15/2015 | 10:57:02 | 60.84 | 55.14 | 29 | 1.91 | 0.40 | 1.6 |

## KCB-325-17 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:46:39

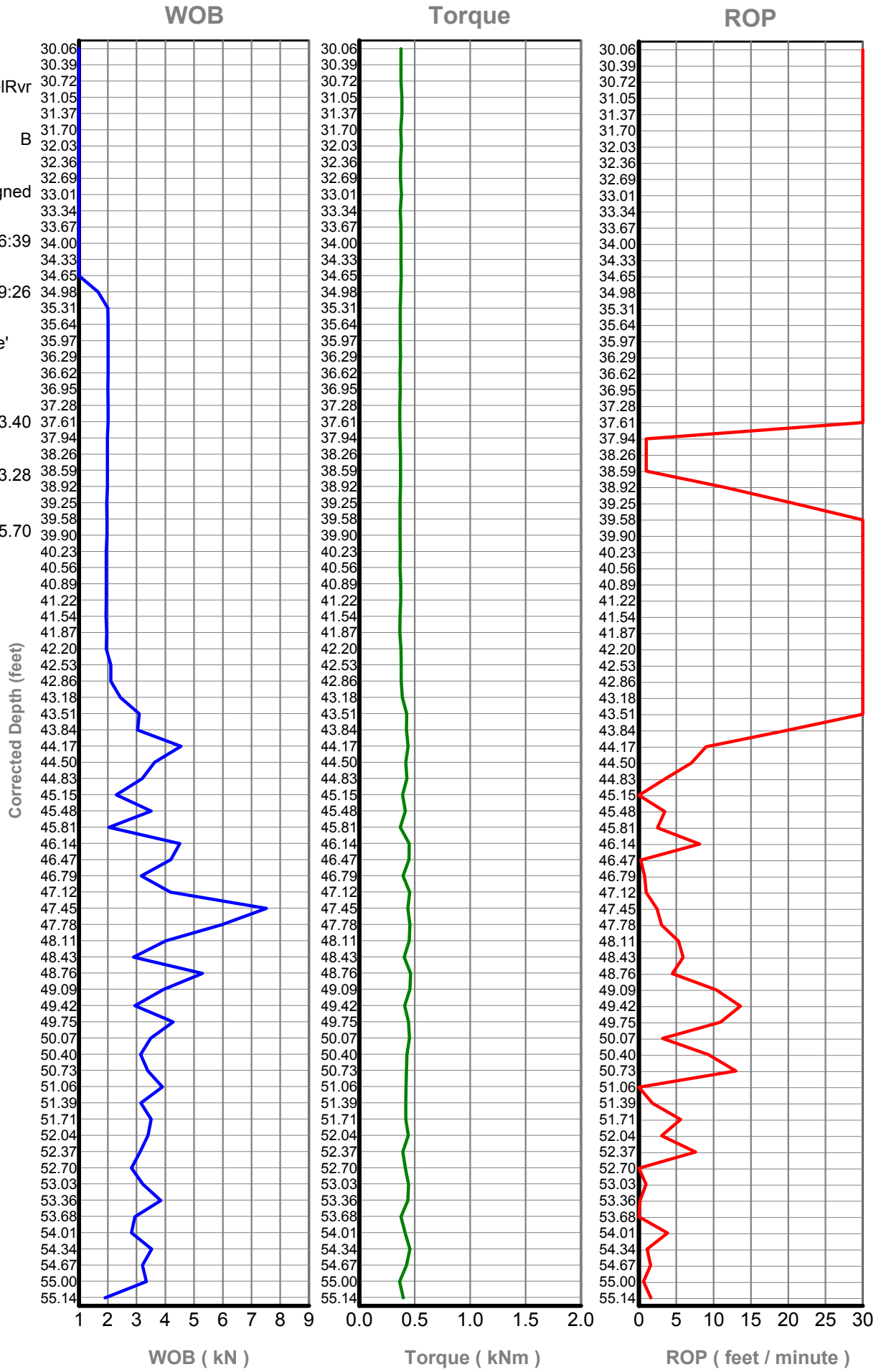
**End Date:**
4/15/2015 10:59:26

**Operator Note:**
'5.7 5.8 b Auto Complete'

**Northing:**
362,103.40

**Easting:**
245,633.28

**Tide (feet):**
5.70



## Hole: KCB-325-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 12:40:54 | 32.81 | 30.21 | 1,078 | 0.81 | 0.41 | 59.0 |
| 4/14/2015 12:40:55 | 33.14 | 30.54 | 1,078 | 0.81 | 0.41 | 59.0 |
| 4/14/2015 12:40:55 | 33.46 | 30.86 | 1,073 | 0.81 | 0.41 | 58.7 |
| 4/14/2015 12:40:55 | 33.79 | 31.19 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:40:56 | 34.12 | 31.52 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:40:56 | 34.45 | 31.85 | 1,072 | 0.81 | 0.41 | 58.6 |
| 4/14/2015 12:40:56 | 34.78 | 32.18 | 1,078 | 0.81 | 0.40 | 59.0 |
| 4/14/2015 12:40:57 | 35.11 | 32.51 | 1,078 | 0.81 | 0.40 | 59.0 |
| 4/14/2015 12:40:57 | 35.43 | 32.83 | 1,081 | 0.81 | 0.41 | 59.1 |
| 4/14/2015 12:40:57 | 35.76 | 33.16 | 1,087 | 0.80 | 0.41 | 59.4 |
| 4/14/2015 12:40:58 | 36.09 | 33.49 | 1,087 | 0.80 | 0.41 | 59.4 |
| 4/14/2015 12:40:58 | 36.42 | 33.82 | 1,084 | 0.83 | 0.41 | 59.3 |
| 4/14/2015 12:40:58 | 36.75 | 34.15 | 1,084 | 0.83 | 0.41 | 59.3 |
| 4/14/2015 12:40:58 | 37.07 | 34.47 | 1,090 | 0.80 | 0.41 | 59.6 |
| 4/14/2015 12:40:59 | 37.40 | 34.80 | 1,084 | 0.81 | 0.41 | 59.3 |
| 4/14/2015 12:41:00 | 37.73 | 35.13 | 1,084 | 0.81 | 0.41 | 59.3 |
| 4/14/2015 12:41:00 | 38.06 | 35.46 | 1,096 | 0.81 | 0.41 | 59.9 |
| 4/14/2015 12:41:00 | 38.39 | 35.79 | 1,077 | 0.81 | 0.41 | 58.9 |
| 4/14/2015 12:41:01 | 38.71 | 36.11 | 1,077 | 0.81 | 0.41 | 58.9 |
| 4/14/2015 12:41:01 | 39.04 | 36.44 | 1,077 | 0.80 | 0.41 | 58.9 |
| 4/14/2015 12:41:01 | 39.37 | 36.77 | 1,077 | 0.80 | 0.41 | 58.9 |
| 4/14/2015 12:41:01 | 39.70 | 37.10 | 1,091 | 0.80 | 0.41 | 59.6 |
| 4/14/2015 12:41:02 | 40.03 | 37.43 | 1,093 | 0.80 | 0.41 | 59.8 |
| 4/14/2015 12:41:02 | 40.35 | 37.75 | 1,093 | 0.80 | 0.41 | 59.8 |
| 4/14/2015 12:41:02 | 40.68 | 38.08 | 1,088 | 0.81 | 0.41 | 59.5 |
| 4/14/2015 12:41:03 | 41.01 | 38.41 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:41:03 | 41.34 | 38.74 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:41:03 | 41.67 | 39.07 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:41:04 | 41.99 | 39.39 | 1,075 | 0.81 | 0.41 | 58.8 |
| 4/14/2015 12:41:04 | 42.32 | 39.72 | 1,093 | 0.80 | 0.38 | 59.8 |
| 4/14/2015 12:41:04 | 42.65 | 40.05 | 1,086 | 0.80 | 0.40 | 59.4 |
| 4/14/2015 12:41:05 | 42.98 | 40.38 | 1,086 | 0.80 | 0.40 | 59.4 |
| 4/14/2015 12:41:05 | 43.31 | 40.71 | 1,057 | 0.81 | 0.41 | 57.8 |
| 4/14/2015 12:41:05 | 43.64 | 41.04 | 1,057 | 0.80 | 0.41 | 57.8 |
| 4/14/2015 12:41:06 | 43.96 | 41.36 | 1,057 | 0.80 | 0.41 | 57.8 |
| 4/14/2015 12:41:06 | 44.29 | 41.69 | 1,082 | 0.80 | 0.41 | 59.2 |
| 4/14/2015 12:41:06 | 44.62 | 42.02 | 1,057 | 0.80 | 0.41 | 57.8 |
| 4/14/2015 12:41:07 | 44.95 | 42.35 | 1,057 | 0.80 | 0.41 | 57.8 |
| 4/14/2015 12:41:07 | 45.28 | 42.68 | 1,056 | 0.79 | 0.42 | 57.7 |
| 4/14/2015 12:41:07 | 45.60 | 43.00 | 1,056 | 0.79 | 0.42 | 57.7 |
| 4/14/2015 12:41:07 | 45.93 | 43.33 | 1,056 | 0.79 | 0.41 | 57.7 |
| 4/14/2015 12:41:08 | 46.26 | 43.66 | 1,043 | 0.80 | 0.41 | 57.1 |
| 4/14/2015 12:41:08 | 46.59 | 43.99 | 1,043 | 0.80 | 0.41 | 57.1 |
| 4/14/2015 12:41:08 | 46.92 | 44.32 | 1,043 | 0.80 | 0.42 | 57.1 |
| 4/14/2015 12:41:09 | 47.24 | 44.64 | 1,069 | 0.80 | 0.42 | 58.4 |
| 4/14/2015 12:41:10 | 47.57 | 44.97 | 1,069 | 0.80 | 0.42 | 58.4 |
| 4/14/2015 12:41:09 | 47.90 | 45.30 | 1,032 | 0.80 | 0.42 | 56.5 |
| 4/14/2015 12:41:10 | 48.23 | 45.63 | 1,056 | 0.79 | 0.42 | 57.7 |
| 4/14/2015 12:41:11 | 48.56 | 45.96 | 1,020 | 0.80 | 0.56 | 55.8 |
| 4/14/2015 12:42:55 | 48.88 | 46.28 | 21 | 4.67 | 0.40 | 1.2 |
| 4/14/2015 12:42:56 | 49.21 | 46.61 | 143 | 4.04 | 0.36 | 7.8 |
| 4/14/2015 12:43:18 | 49.54 | 46.94 | 0 | 4.28 | 0.43 | 0.0 |
| 4/14/2015 12:43:19 | 49.87 | 47.27 | 124 | 3.89 | 0.44 | 6.8 |
| 4/14/2015 12:43:20 | 50.20 | 47.60 | 244 | 3.75 | 0.42 | 13.4 |
| 4/14/2015 12:43:21 | 50.53 | 47.93 | 300 | 4.93 | 0.50 | 16.4 |
| 4/14/2015 12:43:51 | 50.85 | 48.25 | 48 | 4.98 | 0.46 | 2.7 |
| 4/14/2015 12:44:21 | 51.18 | 48.58 | 6 | 4.83 | 0.44 | 0.3 |
| 4/14/2015 12:44:23 | 51.51 | 48.91 | 105 | 5.33 | 0.46 | 5.7 |
| 4/14/2015 12:44:24 | 51.84 | 49.24 | 227 | 5.69 | 0.51 | 12.4 |
| 4/14/2015 12:44:56 | 52.17 | 49.57 | 24 | 3.46 | 0.41 | 1.3 |
| 4/14/2015 12:44:56 | 52.49 | 49.89 | 24 | 2.99 | 0.41 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 12:45:01 | 52.82 | 50.22 | 9 | 4.77 | 0.47 | 0.5 |
| 4/14/2015 | 12:45:02 | 53.15 | 50.55 | 83 | 4.93 | 0.53 | 4.5 |
| 4/14/2015 | 12:45:03 | 53.48 | 50.88 | 129 | 3.68 | 0.48 | 7.0 |
| 4/14/2015 | 12:45:05 | 53.81 | 51.21 | 242 | 3.18 | 0.41 | 13.2 |
| 4/14/2015 | 12:45:05 | 54.13 | 51.53 | 294 | 3.50 | 0.45 | 16.1 |
| 4/14/2015 | 12:45:06 | 54.46 | 51.86 | 330 | 3.11 | 0.44 | 18.0 |
| 4/14/2015 | 12:45:07 | 54.79 | 52.19 | 376 | 4.07 | 0.48 | 20.5 |
| 4/14/2015 | 12:45:48 | 55.12 | 52.52 | 0 | 4.53 | 0.42 | 0.0 |
| 4/14/2015 | 12:49:06 | 55.45 | 52.85 | 0 | 3.90 | 0.35 | 0.0 |
| 4/14/2015 | 12:50:24 | 55.77 | 53.17 | 6 | 3.39 | 0.46 | 0.3 |
| 4/14/2015 | 12:50:31 | 56.10 | 53.50 | 12 | 4.45 | 0.54 | 0.6 |
| 4/14/2015 | 12:50:53 | 56.43 | 53.83 | 65 | 4.28 | 0.50 | 3.5 |
| 4/14/2015 | 12:50:55 | 56.76 | 54.16 | 140 | 3.81 | 0.50 | 7.7 |
| 4/14/2015 | 12:51:00 | 57.09 | 54.49 | 0 | 2.89 | 0.52 | 0.0 |
| 4/14/2015 | 12:51:01 | 57.41 | 54.81 | 98 | 2.69 | 0.52 | 5.3 |
| 4/14/2015 | 12:51:03 | 57.74 | 55.14 | 191 | 2.84 | 0.49 | 10.5 |
| 4/14/2015 | 12:51:04 | 58.07 | 55.47 | 242 | 2.88 | 0.50 | 13.3 |
| 4/14/2015 | 12:51:07 | 58.40 | 55.80 | 100 | 4.54 | 0.53 | 5.5 |
| 4/14/2015 | 12:51:17 | 58.73 | 56.13 | 25 | 5.50 | 0.54 | 1.4 |
| 4/14/2015 | 12:51:22 | 59.06 | 56.46 | 83 | 4.49 | 0.48 | 4.5 |
| 4/14/2015 | 12:51:24 | 59.38 | 56.78 | 225 | 4.36 | 0.49 | 12.3 |
| 4/14/2015 | 12:51:29 | 59.71 | 57.11 | 61 | 3.98 | 0.56 | 3.3 |
| 4/14/2015 | 12:51:32 | 59.84 | 57.24 | 41 | 3.57 | 0.54 | 2.2 |

## KCB-325-2 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 12:34:21

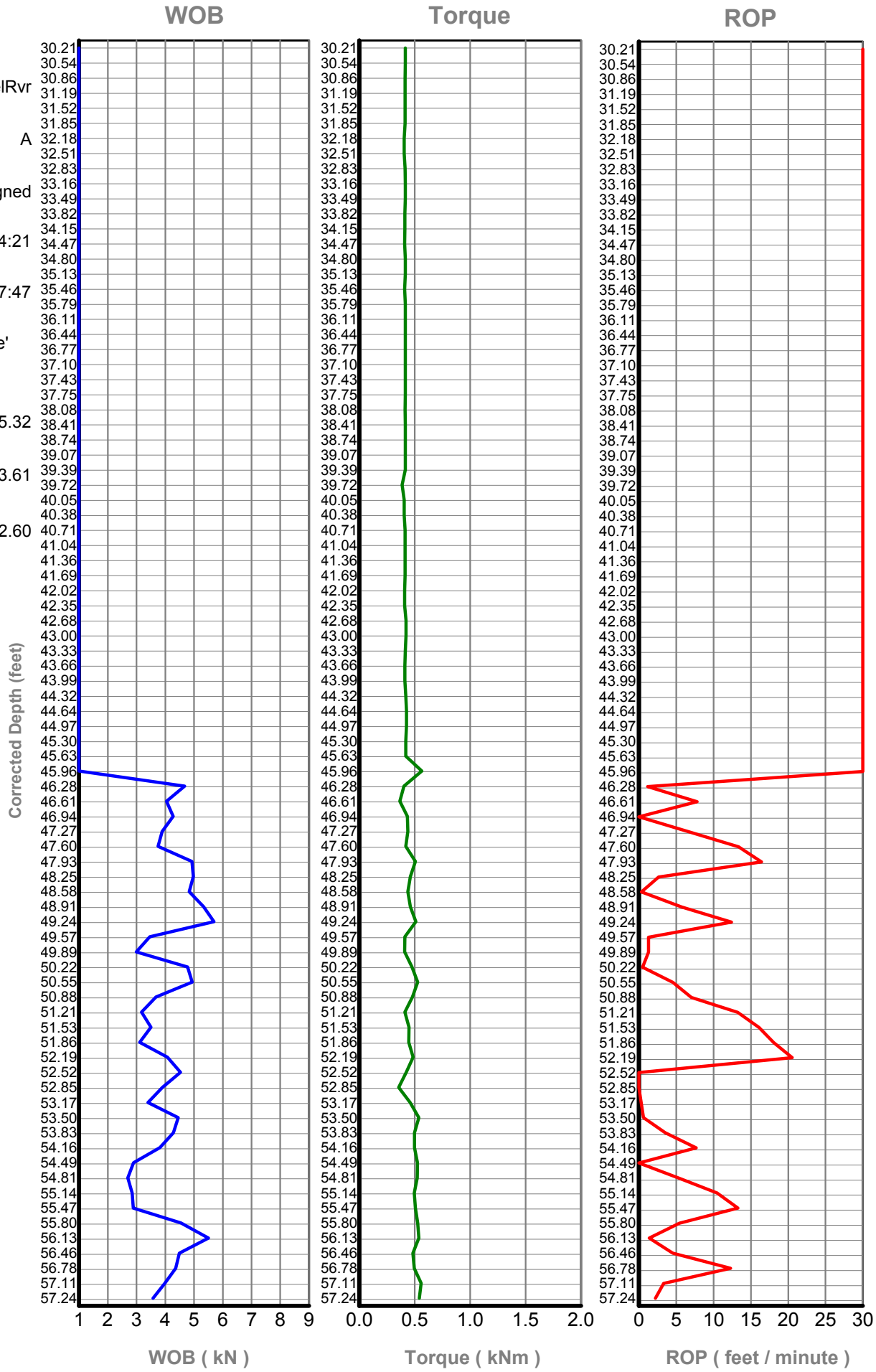
**End Date:**
4/14/2015 12:57:47

**Operator Note:**
'2.6 4.3 a Auto Complete'

**Northing:**
362,105.32

**Easting:**
245,603.61

**Tide (feet):**
2.60



## Hole: KCB-325-2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 13:02:31 | 32.81 | 30.21 | 1,149 | 0.69 | 0.37 | 62.8 |
| 4/14/2015 13:02:31 | 33.14 | 30.54 | 1,137 | 0.69 | 0.37 | 62.2 |
| 4/14/2015 13:02:32 | 33.46 | 30.86 | 1,137 | 0.69 | 0.37 | 62.2 |
| 4/14/2015 13:02:32 | 33.79 | 31.19 | 1,151 | 0.70 | 0.37 | 62.9 |
| 4/14/2015 13:02:32 | 34.12 | 31.52 | 1,152 | 0.69 | 0.37 | 63.0 |
| 4/14/2015 13:02:33 | 34.45 | 31.85 | 1,152 | 0.69 | 0.37 | 63.0 |
| 4/14/2015 13:02:33 | 34.78 | 32.18 | 1,135 | 0.69 | 0.37 | 62.1 |
| 4/14/2015 13:02:33 | 35.11 | 32.51 | 1,135 | 0.69 | 0.37 | 62.1 |
| 4/14/2015 13:02:33 | 35.43 | 32.83 | 1,135 | 0.69 | 0.37 | 62.1 |
| 4/14/2015 13:02:34 | 35.76 | 33.16 | 1,152 | 0.69 | 0.38 | 63.0 |
| 4/14/2015 13:02:34 | 36.09 | 33.49 | 1,152 | 0.69 | 0.38 | 63.0 |
| 4/14/2015 13:02:34 | 36.42 | 33.82 | 1,162 | 0.69 | 0.36 | 63.5 |
| 4/14/2015 13:02:35 | 36.75 | 34.15 | 1,162 | 0.69 | 0.36 | 63.5 |
| 4/14/2015 13:02:35 | 37.07 | 34.47 | 1,145 | 0.69 | 0.37 | 62.6 |
| 4/14/2015 13:02:35 | 37.40 | 34.80 | 1,163 | 0.69 | 0.36 | 63.6 |
| 4/14/2015 13:02:36 | 37.73 | 35.13 | 1,163 | 0.69 | 0.36 | 63.6 |
| 4/14/2015 13:02:36 | 38.06 | 35.46 | 1,178 | 0.69 | 0.35 | 64.4 |
| 4/14/2015 13:02:36 | 38.39 | 35.79 | 1,178 | 0.69 | 0.35 | 64.4 |
| 4/14/2015 13:02:36 | 38.71 | 36.11 | 1,138 | 0.69 | 0.37 | 62.2 |
| 4/14/2015 13:02:37 | 39.04 | 36.44 | 1,138 | 0.69 | 0.37 | 62.2 |
| 4/14/2015 13:02:37 | 39.37 | 36.77 | 1,138 | 0.69 | 0.37 | 62.2 |
| 4/14/2015 13:02:37 | 39.70 | 37.10 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:38 | 40.03 | 37.43 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:38 | 40.35 | 37.75 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:39 | 40.68 | 38.08 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:38 | 41.01 | 38.41 | 1,148 | 0.69 | 0.37 | 62.8 |
| 4/14/2015 13:02:39 | 41.34 | 38.74 | 1,148 | 0.62 | 0.36 | 62.8 |
| 4/14/2015 13:02:39 | 41.67 | 39.07 | 1,148 | 0.62 | 0.36 | 62.8 |
| 4/14/2015 13:02:49 | 41.99 | 39.39 | 91 | 0.69 | 0.37 | 5.0 |
| 4/14/2015 13:02:50 | 42.32 | 39.72 | 91 | 0.69 | 0.37 | 5.0 |
| 4/14/2015 13:02:50 | 42.65 | 40.05 | 331 | 0.69 | 0.37 | 18.1 |
| 4/14/2015 13:02:50 | 42.98 | 40.38 | 331 | 0.69 | 0.37 | 18.1 |
| 4/14/2015 13:02:50 | 43.31 | 40.71 | 331 | 0.69 | 0.37 | 18.1 |
| 4/14/2015 13:02:51 | 43.64 | 41.04 | 575 | 0.69 | 0.37 | 31.5 |
| 4/14/2015 13:02:52 | 43.96 | 41.36 | 575 | 0.69 | 0.37 | 31.5 |
| 4/14/2015 13:02:52 | 44.29 | 41.69 | 805 | 0.69 | 0.37 | 44.0 |
| 4/14/2015 13:02:52 | 44.62 | 42.02 | 805 | 0.69 | 0.37 | 44.0 |
| 4/14/2015 13:02:52 | 44.95 | 42.35 | 1,007 | 0.62 | 0.37 | 55.0 |
| 4/14/2015 13:02:53 | 45.28 | 42.68 | 1,007 | 0.69 | 0.37 | 55.0 |
| 4/14/2015 13:02:53 | 45.60 | 43.00 | 1,007 | 0.69 | 0.37 | 55.0 |
| 4/14/2015 13:02:53 | 45.93 | 43.33 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:54 | 46.26 | 43.66 | 1,146 | 0.69 | 0.37 | 62.7 |
| 4/14/2015 13:02:54 | 46.59 | 43.99 | 1,132 | 0.69 | 0.38 | 61.9 |
| 4/14/2015 13:02:54 | 46.92 | 44.32 | 1,109 | 0.67 | 0.42 | 60.6 |
| 4/14/2015 13:03:01 | 47.24 | 44.64 | 0 | 3.12 | 0.39 | 0.0 |
| 4/14/2015 13:03:02 | 47.57 | 44.97 | 97 | 4.33 | 0.41 | 5.3 |
| 4/14/2015 13:03:04 | 47.90 | 45.30 | 325 | 6.38 | 0.44 | 17.8 |
| 4/14/2015 13:04:18 | 48.23 | 45.63 | 0 | 6.45 | 0.40 | 0.0 |
| 4/14/2015 13:05:03 | 48.56 | 45.96 | 37 | 4.33 | 0.40 | 2.0 |
| 4/14/2015 13:05:04 | 48.88 | 46.28 | 175 | 3.79 | 0.44 | 9.5 |
| 4/14/2015 13:05:05 | 49.21 | 46.61 | 263 | 4.15 | 0.42 | 14.4 |
| 4/14/2015 13:05:06 | 49.54 | 46.94 | 333 | 5.48 | 0.50 | 18.2 |
| 4/14/2015 13:06:38 | 49.87 | 47.27 | 116 | 4.64 | 0.38 | 6.3 |
| 4/14/2015 13:06:39 | 50.20 | 47.60 | 185 | 4.37 | 0.41 | 10.1 |
| 4/14/2015 13:07:10 | 50.53 | 47.93 | 73 | 4.19 | 0.35 | 4.0 |
| 4/14/2015 13:07:11 | 50.85 | 48.25 | 195 | 3.75 | 0.39 | 10.7 |
| 4/14/2015 13:07:12 | 51.18 | 48.58 | 294 | 3.92 | 0.32 | 16.1 |
| 4/14/2015 13:07:13 | 51.51 | 48.91 | 386 | 3.18 | 0.34 | 21.1 |
| 4/14/2015 13:07:14 | 51.84 | 49.24 | 424 | 3.31 | 0.33 | 23.2 |
| 4/14/2015 13:07:14 | 52.17 | 49.57 | 474 | 3.58 | 0.35 | 25.9 |
| 4/14/2015 13:07:15 | 52.49 | 49.89 | 560 | 3.53 | 0.34 | 30.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 13:07:15 | 52.82 | 50.22 | 589 | 3.67 | 0.35 | 32.2 |
| 4/14/2015 | 13:07:16 | 53.15 | 50.55 | 560 | 3.89 | 0.36 | 30.6 |
| 4/14/2015 | 13:07:17 | 53.48 | 50.88 | 543 | 3.09 | 0.36 | 29.7 |
| 4/14/2015 | 13:08:57 | 53.81 | 51.21 | 0 | 3.62 | 0.40 | 0.0 |
| 4/14/2015 | 13:08:58 | 54.13 | 51.53 | 60 | 3.58 | 0.44 | 3.3 |
| 4/14/2015 | 13:09:41 | 54.46 | 51.86 | 18 | 4.39 | 0.39 | 1.0 |
| 4/14/2015 | 13:09:43 | 54.79 | 52.19 | 142 | 3.73 | 0.37 | 7.8 |
| 4/14/2015 | 13:09:44 | 55.12 | 52.52 | 214 | 3.00 | 0.40 | 11.7 |
| 4/14/2015 | 13:09:45 | 55.45 | 52.85 | 282 | 2.71 | 0.39 | 15.4 |
| 4/14/2015 | 13:09:45 | 55.77 | 53.17 | 262 | 2.82 | 0.37 | 14.3 |
| 4/14/2015 | 13:09:46 | 56.10 | 53.50 | 363 | 2.54 | 0.38 | 19.9 |
| 4/14/2015 | 13:09:48 | 56.43 | 53.83 | 317 | 2.55 | 0.42 | 17.3 |
| 4/14/2015 | 13:09:50 | 56.76 | 54.16 | 296 | 2.62 | 0.43 | 16.2 |
| 4/14/2015 | 13:09:51 | 57.09 | 54.49 | 223 | 3.63 | 0.42 | 12.2 |
| 4/14/2015 | 13:09:56 | 57.41 | 54.81 | 55 | 2.21 | 0.17 | 3.0 |
| 4/14/2015 | 13:10:01 | 57.74 | 55.14 | 20 | 3.52 | 0.38 | 1.1 |
| 4/14/2015 | 13:10:01 | 58.07 | 55.47 | 123 | 4.05 | 0.30 | 6.7 |
| 4/14/2015 | 13:10:02 | 58.40 | 55.80 | 206 | 3.61 | 0.32 | 11.3 |
| 4/14/2015 | 13:10:03 | 58.73 | 56.13 | 406 | 4.64 | 0.29 | 22.2 |
| 4/14/2015 | 13:10:03 | 59.06 | 56.46 | 472 | 4.51 | 0.40 | 25.8 |
| 4/14/2015 | 13:10:05 | 59.26 | 56.66 | 344 | 3.37 | 0.15 | 18.8 |

## KCB-325-2 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/14/2015 13:00:15

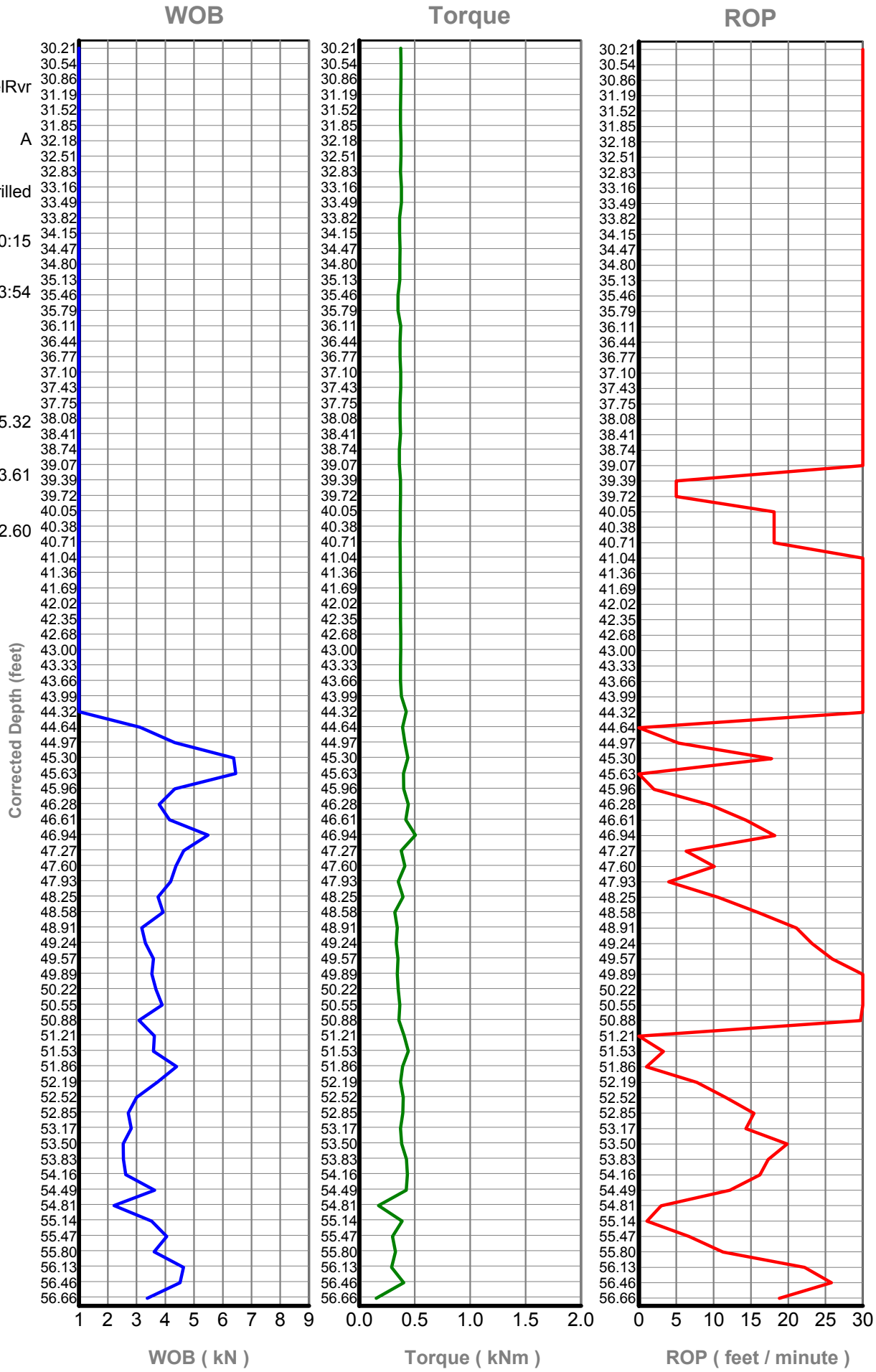
**End Date:**
4/14/2015 13:13:54

**Operator Note:**
'2.6 3.5 a Redrill first wrong'

**Northing:**
362,105.32

**Easting:**
245,603.61

**Tide (feet):**
2.60



## Hole: KCB-325-3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:34:20 | 36.09 | 30.29 | 494 | 2.08 | 0.16 | 27.0 |
| 4/15/2015 10:34:21 | 36.42 | 30.62 | 497 | 1.82 | 0.15 | 27.2 |
| 4/15/2015 10:34:22 | 36.75 | 30.95 | 497 | 1.96 | 0.15 | 27.2 |
| 4/15/2015 10:34:23 | 37.07 | 31.27 | 500 | 1.81 | 0.15 | 27.3 |
| 4/15/2015 10:34:24 | 37.40 | 31.60 | 492 | 2.07 | 0.16 | 26.9 |
| 4/15/2015 10:34:24 | 37.73 | 31.93 | 492 | 1.81 | 0.15 | 26.9 |
| 4/15/2015 10:34:25 | 38.06 | 32.26 | 495 | 2.06 | 0.16 | 27.1 |
| 4/15/2015 10:34:26 | 38.39 | 32.59 | 492 | 1.93 | 0.15 | 26.9 |
| 4/15/2015 10:34:26 | 38.71 | 32.91 | 495 | 2.12 | 0.15 | 27.1 |
| 4/15/2015 10:34:27 | 39.04 | 33.24 | 494 | 2.06 | 0.25 | 27.0 |
| 4/15/2015 10:34:28 | 39.37 | 33.57 | 497 | 1.90 | 0.28 | 27.2 |
| 4/15/2015 10:34:28 | 39.70 | 33.90 | 500 | 2.04 | 0.34 | 27.4 |
| 4/15/2015 10:34:29 | 40.03 | 34.23 | 485 | 2.10 | 0.32 | 26.5 |
| 4/15/2015 10:34:30 | 40.35 | 34.55 | 485 | 1.83 | 0.33 | 26.5 |
| 4/15/2015 10:34:31 | 40.68 | 34.88 | 486 | 1.89 | 0.32 | 26.6 |
| 4/15/2015 10:34:31 | 41.01 | 35.21 | 481 | 2.06 | 0.32 | 26.3 |
| 4/15/2015 10:34:32 | 41.34 | 35.54 | 483 | 1.82 | 0.32 | 26.4 |
| 4/15/2015 10:34:33 | 41.67 | 35.87 | 489 | 1.90 | 0.32 | 26.7 |
| 4/15/2015 10:34:34 | 41.99 | 36.19 | 486 | 2.06 | 0.32 | 26.6 |
| 4/15/2015 10:34:35 | 42.32 | 36.52 | 483 | 2.10 | 0.32 | 26.4 |
| 4/15/2015 10:34:35 | 42.65 | 36.85 | 480 | 2.08 | 0.32 | 26.2 |
| 4/15/2015 10:34:36 | 42.98 | 37.18 | 477 | 1.89 | 0.32 | 26.1 |
| 4/15/2015 10:34:37 | 43.31 | 37.51 | 483 | 2.06 | 0.32 | 26.4 |
| 4/15/2015 10:34:37 | 43.64 | 37.84 | 483 | 2.12 | 0.32 | 26.4 |
| 4/15/2015 10:34:38 | 43.96 | 38.16 | 473 | 2.03 | 0.32 | 25.8 |
| 4/15/2015 10:34:39 | 44.29 | 38.49 | 473 | 2.04 | 0.32 | 25.8 |
| 4/15/2015 10:34:39 | 44.62 | 38.82 | 478 | 2.05 | 0.31 | 26.1 |
| 4/15/2015 10:34:40 | 44.95 | 39.15 | 480 | 2.10 | 0.31 | 26.3 |
| 4/15/2015 10:34:41 | 45.28 | 39.48 | 488 | 1.82 | 0.31 | 26.7 |
| 4/15/2015 10:34:42 | 45.60 | 39.80 | 489 | 2.01 | 0.31 | 26.7 |
| 4/15/2015 10:34:42 | 45.93 | 40.13 | 483 | 2.00 | 0.31 | 26.4 |
| 4/15/2015 10:34:44 | 46.26 | 40.46 | 483 | 1.83 | 0.30 | 26.4 |
| 4/15/2015 10:34:44 | 46.59 | 40.79 | 483 | 2.09 | 0.31 | 26.4 |
| 4/15/2015 10:34:45 | 46.92 | 41.12 | 486 | 1.83 | 0.31 | 26.6 |
| 4/15/2015 10:34:46 | 47.24 | 41.44 | 489 | 2.08 | 0.31 | 26.7 |
| 4/15/2015 10:34:46 | 47.57 | 41.77 | 483 | 1.85 | 0.31 | 26.4 |
| 4/15/2015 10:34:47 | 47.90 | 42.10 | 483 | 2.06 | 0.31 | 26.4 |
| 4/15/2015 10:34:48 | 48.23 | 42.43 | 480 | 2.05 | 0.31 | 26.2 |
| 4/15/2015 10:34:48 | 48.56 | 42.76 | 486 | 1.82 | 0.31 | 26.6 |
| 4/15/2015 10:34:49 | 48.88 | 43.08 | 486 | 1.83 | 0.31 | 26.6 |
| 4/15/2015 10:34:50 | 49.21 | 43.41 | 486 | 1.83 | 0.31 | 26.6 |
| 4/15/2015 10:34:51 | 49.54 | 43.74 | 483 | 1.83 | 0.31 | 26.4 |
| 4/15/2015 10:34:51 | 49.87 | 44.07 | 480 | 2.07 | 0.31 | 26.2 |
| 4/15/2015 10:34:52 | 50.20 | 44.40 | 474 | 1.84 | 0.31 | 25.9 |
| 4/15/2015 10:34:53 | 50.53 | 44.73 | 474 | 2.07 | 0.30 | 25.9 |
| 4/15/2015 10:34:54 | 50.85 | 45.05 | 474 | 1.85 | 0.30 | 25.9 |
| 4/15/2015 10:34:58 | 51.18 | 45.38 | 42 | 2.08 | 1.41 | 2.3 |
| 4/15/2015 10:35:03 | 51.51 | 45.71 | 103 | 2.02 | 1.21 | 5.6 |
| 4/15/2015 10:35:28 | 51.84 | 46.04 | 0 | 2.12 | 1.15 | 0.0 |
| 4/15/2015 10:35:41 | 52.17 | 46.37 | 56 | 1.91 | 1.55 | 3.1 |
| 4/15/2015 10:35:44 | 52.49 | 46.69 | 142 | 1.87 | 1.12 | 7.8 |
| 4/15/2015 10:35:45 | 52.82 | 47.02 | 161 | 2.19 | 1.10 | 8.8 |
| 4/15/2015 10:35:47 | 53.15 | 47.35 | 224 | 2.05 | 0.85 | 12.2 |
| 4/15/2015 10:35:48 | 53.48 | 47.68 | 205 | 1.88 | 1.10 | 11.2 |
| 4/15/2015 10:35:49 | 53.81 | 48.01 | 234 | 1.93 | 1.20 | 12.8 |
| 4/15/2015 10:36:05 | 54.13 | 48.33 | 0 | 2.09 | 1.43 | 0.0 |
| 4/15/2015 10:36:06 | 54.46 | 48.66 | 159 | 1.99 | 1.14 | 8.7 |
| 4/15/2015 10:36:07 | 54.79 | 48.99 | 256 | 1.98 | 1.12 | 14.0 |
| 4/15/2015 10:36:29 | 55.12 | 49.32 | 0 | 2.06 | 1.35 | 0.0 |
| 4/15/2015 10:36:30 | 55.45 | 49.65 | 99 | 2.04 | 1.15 | 5.4 |
| 4/15/2015 10:36:31 | 55.77 | 49.97 | 233 | 2.07 | 1.36 | 12.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 10:36:32 | 56.10 | 50.30 | 284 | 2.04 | 1.11 | 15.6 |
| 4/15/2015 | 10:43:56 | 56.43 | 50.63 | 0 | 2.04 | 1.06 | 0.0 |
| 4/15/2015 | 10:43:57 | 56.76 | 50.96 | 80 | 2.01 | 1.05 | 4.4 |
| 4/15/2015 | 10:43:58 | 57.09 | 51.29 | 251 | 2.02 | 1.04 | 13.7 |
| 4/15/2015 | 10:43:59 | 57.41 | 51.61 | 411 | 2.08 | 1.17 | 22.5 |
| 4/15/2015 | 10:44:08 | 57.74 | 51.94 | 85 | 2.09 | 1.41 | 4.6 |
| 4/15/2015 | 10:44:11 | 58.07 | 52.27 | 135 | 2.00 | 1.12 | 7.4 |
| 4/15/2015 | 10:44:12 | 58.40 | 52.60 | 208 | 2.02 | 1.01 | 11.4 |
| 4/15/2015 | 10:44:13 | 58.73 | 52.93 | 322 | 2.01 | 0.96 | 17.6 |
| 4/15/2015 | 10:44:13 | 59.06 | 53.26 | 393 | 1.99 | 1.16 | 21.5 |
| 4/15/2015 | 10:44:14 | 59.38 | 53.58 | 413 | 1.98 | 1.02 | 22.6 |
| 4/15/2015 | 10:44:15 | 59.71 | 53.91 | 385 | 2.03 | 1.14 | 21.1 |
| 4/15/2015 | 10:44:17 | 60.04 | 54.24 | 353 | 2.08 | 1.42 | 19.3 |
| 4/15/2015 | 10:44:18 | 60.37 | 54.57 | 301 | 2.03 | 1.12 | 16.5 |
| 4/15/2015 | 10:44:20 | 60.70 | 54.90 | 263 | 2.06 | 1.47 | 14.4 |
| 4/15/2015 | 10:44:26 | 60.93 | 55.13 | 81 | 2.08 | 1.12 | 4.4 |

## KCB-325-3 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:31:00

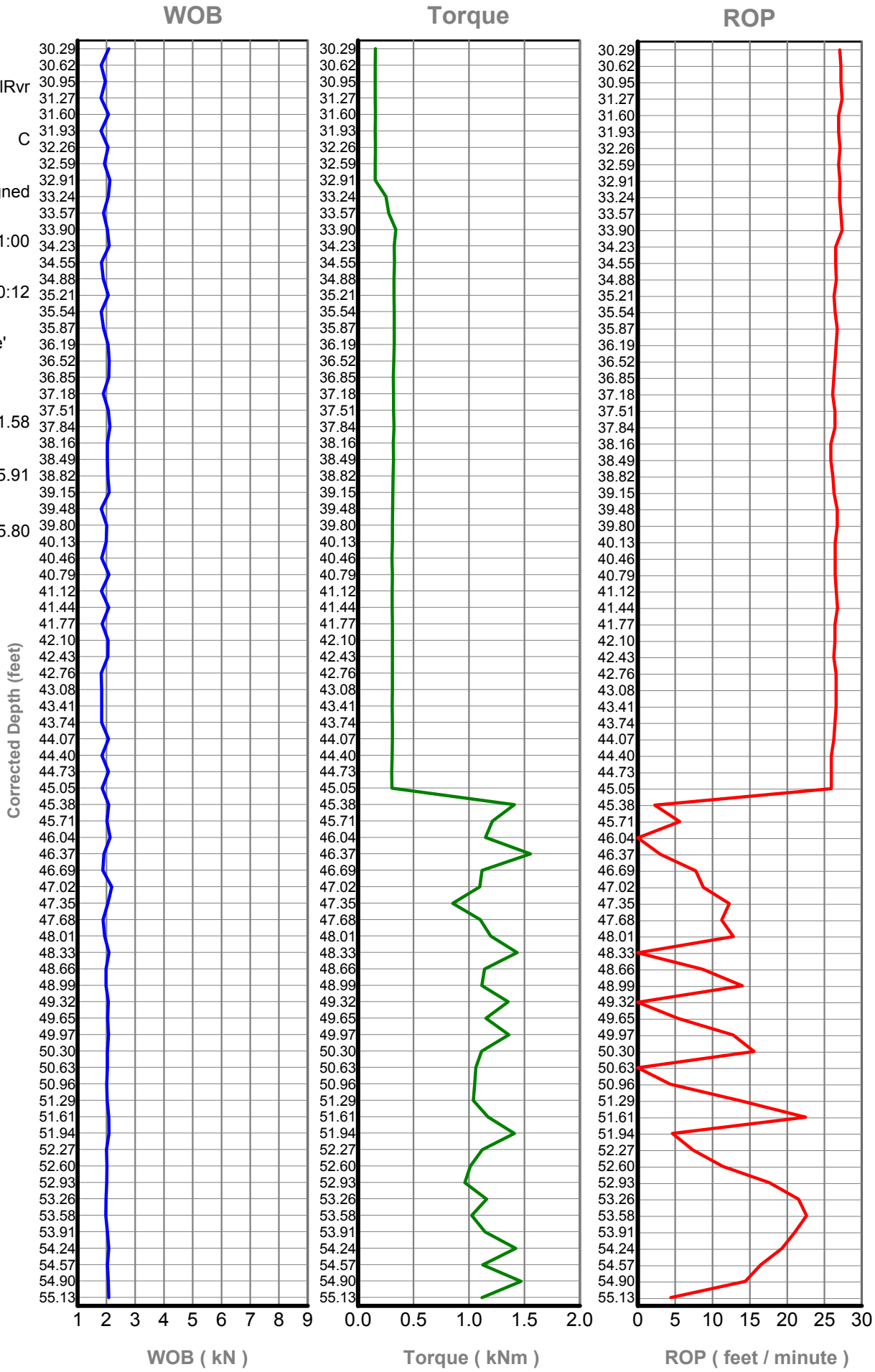
**End Date:**
4/15/2015 10:50:12

**Operator Note:**
'5.8 5.9 c Auto Complete'

**Northing:**
362,081.58

**Easting:**
245,605.91

**Tide (feet):**
5.80



## Hole: KCB-325-4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 13:19:20 | 32.48 | 30.08 | 1,165 | 2.29 | 0.37 | 63.7 |
| 4/14/2015 13:19:21 | 32.81 | 30.41 | 1,165 | 2.29 | 0.37 | 63.7 |
| 4/14/2015 13:19:21 | 33.14 | 30.74 | 1,166 | 2.31 | 0.37 | 63.8 |
| 4/14/2015 13:19:21 | 33.46 | 31.06 | 1,196 | 2.31 | 0.36 | 65.4 |
| 4/14/2015 13:19:22 | 33.79 | 31.39 | 1,196 | 2.31 | 0.36 | 65.4 |
| 4/14/2015 13:19:22 | 34.12 | 31.72 | 1,167 | 2.33 | 0.36 | 63.8 |
| 4/14/2015 13:19:22 | 34.45 | 32.05 | 1,167 | 2.33 | 0.36 | 63.8 |
| 4/14/2015 13:19:22 | 34.78 | 32.38 | 1,179 | 2.31 | 0.36 | 64.5 |
| 4/14/2015 13:19:23 | 35.11 | 32.71 | 1,179 | 2.29 | 0.36 | 64.5 |
| 4/14/2015 13:19:23 | 35.43 | 33.03 | 1,179 | 2.29 | 0.36 | 64.5 |
| 4/14/2015 13:19:23 | 35.76 | 33.36 | 1,182 | 2.36 | 0.36 | 64.7 |
| 4/14/2015 13:19:24 | 36.09 | 33.69 | 1,182 | 2.36 | 0.36 | 64.7 |
| 4/14/2015 13:19:24 | 36.42 | 34.02 | 1,185 | 2.34 | 0.36 | 64.8 |
| 4/14/2015 13:19:24 | 36.75 | 34.35 | 1,185 | 2.34 | 0.36 | 64.8 |
| 4/14/2015 13:19:24 | 37.07 | 34.67 | 1,188 | 2.32 | 0.37 | 65.0 |
| 4/14/2015 13:19:25 | 37.40 | 35.00 | 1,188 | 2.32 | 0.36 | 65.0 |
| 4/14/2015 13:19:25 | 37.73 | 35.33 | 1,188 | 2.32 | 0.36 | 65.0 |
| 4/14/2015 13:19:25 | 38.06 | 35.66 | 1,188 | 2.32 | 0.36 | 65.0 |
| 4/14/2015 13:19:26 | 38.39 | 35.99 | 1,188 | 2.32 | 0.36 | 65.0 |
| 4/14/2015 13:19:26 | 38.71 | 36.31 | 1,181 | 2.31 | 0.37 | 64.6 |
| 4/14/2015 13:19:26 | 39.04 | 36.64 | 1,181 | 2.31 | 0.37 | 64.6 |
| 4/14/2015 13:19:26 | 39.37 | 36.97 | 1,188 | 2.30 | 0.37 | 65.0 |
| 4/14/2015 13:19:27 | 39.70 | 37.30 | 1,182 | 2.31 | 0.36 | 64.7 |
| 4/14/2015 13:19:27 | 40.03 | 37.63 | 1,182 | 2.31 | 0.36 | 64.7 |
| 4/14/2015 13:19:27 | 40.35 | 37.95 | 1,179 | 2.30 | 0.36 | 64.5 |
| 4/14/2015 13:19:28 | 40.68 | 38.28 | 1,179 | 2.30 | 0.36 | 64.5 |
| 4/14/2015 13:19:28 | 41.01 | 38.61 | 1,174 | 2.31 | 0.36 | 64.2 |
| 4/14/2015 13:19:28 | 41.34 | 38.94 | 1,171 | 2.32 | 0.36 | 64.0 |
| 4/14/2015 13:19:29 | 41.67 | 39.27 | 1,171 | 2.32 | 0.36 | 64.0 |
| 4/14/2015 13:19:29 | 41.99 | 39.59 | 1,158 | 2.29 | 0.36 | 63.3 |
| 4/14/2015 13:19:29 | 42.32 | 39.92 | 1,158 | 2.29 | 0.36 | 63.3 |
| 4/14/2015 13:19:29 | 42.65 | 40.25 | 1,168 | 2.30 | 0.36 | 63.9 |
| 4/14/2015 13:19:30 | 42.98 | 40.58 | 1,164 | 2.31 | 0.36 | 63.6 |
| 4/14/2015 13:19:30 | 43.31 | 40.91 | 1,164 | 2.31 | 0.36 | 63.6 |
| 4/14/2015 13:19:31 | 43.64 | 41.24 | 1,174 | 2.32 | 0.37 | 64.2 |
| 4/14/2015 13:19:31 | 43.96 | 41.56 | 1,174 | 2.32 | 0.37 | 64.2 |
| 4/14/2015 13:19:31 | 44.29 | 41.89 | 1,171 | 2.33 | 0.35 | 64.0 |
| 4/14/2015 13:19:32 | 44.62 | 42.22 | 1,171 | 2.33 | 0.35 | 64.0 |
| 4/14/2015 13:19:32 | 44.95 | 42.55 | 1,170 | 2.31 | 0.36 | 64.0 |
| 4/14/2015 13:19:32 | 45.28 | 42.88 | 1,174 | 2.32 | 0.36 | 64.2 |
| 4/14/2015 13:19:33 | 45.60 | 43.20 | 1,174 | 2.32 | 0.36 | 64.2 |
| 4/14/2015 13:19:33 | 45.93 | 43.53 | 1,172 | 2.30 | 0.37 | 64.1 |
| 4/14/2015 13:19:33 | 46.26 | 43.86 | 1,172 | 2.30 | 0.37 | 64.1 |
| 4/14/2015 13:19:33 | 46.59 | 44.19 | 1,169 | 2.59 | 0.36 | 63.9 |
| 4/14/2015 13:19:34 | 46.92 | 44.52 | 1,163 | 2.31 | 0.35 | 63.6 |
| 4/14/2015 13:19:34 | 47.24 | 44.84 | 1,163 | 2.31 | 0.35 | 63.6 |
| 4/14/2015 13:19:34 | 47.57 | 45.17 | 1,164 | 3.16 | 0.37 | 63.6 |
| 4/14/2015 13:19:35 | 47.90 | 45.50 | 1,164 | 3.16 | 0.37 | 63.6 |
| 4/14/2015 13:19:35 | 48.23 | 45.83 | 1,127 | 3.97 | 0.40 | 61.6 |
| 4/14/2015 13:19:43 | 48.56 | 46.16 | 28 | 6.34 | 0.44 | 1.5 |
| 4/14/2015 13:19:50 | 48.88 | 46.48 | 117 | 5.02 | 0.45 | 6.4 |
| 4/14/2015 13:19:53 | 49.21 | 46.81 | 124 | 3.46 | 0.43 | 6.8 |
| 4/14/2015 13:19:55 | 49.54 | 47.14 | 98 | 3.32 | 0.39 | 5.3 |
| 4/14/2015 13:19:57 | 49.87 | 47.47 | 140 | 5.13 | 0.47 | 7.7 |
| 4/14/2015 13:20:00 | 50.20 | 47.80 | 59 | 3.88 | 0.32 | 3.2 |
| 4/14/2015 13:20:01 | 50.53 | 48.13 | 233 | 3.93 | 0.37 | 12.7 |
| 4/14/2015 13:20:01 | 50.85 | 48.45 | 338 | 2.66 | 0.40 | 18.5 |
| 4/14/2015 13:20:02 | 51.18 | 48.78 | 478 | 2.90 | 0.30 | 26.2 |
| 4/14/2015 13:20:03 | 51.51 | 49.11 | 585 | 3.67 | 0.35 | 32.0 |
| 4/14/2015 13:20:04 | 51.84 | 49.44 | 570 | 4.21 | 0.40 | 31.2 |
| 4/14/2015 13:20:05 | 52.17 | 49.77 | 453 | 4.09 | 0.40 | 24.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 13:20:06 | 52.49 | 50.09 | 333 | 4.36 | 0.41 | 18.2 |
| 4/14/2015 | 13:20:07 | 52.82 | 50.42 | 266 | 4.31 | 0.42 | 14.5 |
| 4/14/2015 | 13:20:08 | 53.15 | 50.75 | 315 | 3.37 | 0.35 | 17.2 |
| 4/14/2015 | 13:20:09 | 53.48 | 51.08 | 353 | 4.47 | 0.42 | 19.3 |
| 4/14/2015 | 13:20:10 | 53.81 | 51.41 | 330 | 4.07 | 0.40 | 18.0 |
| 4/14/2015 | 13:20:13 | 54.13 | 51.73 | 240 | 3.97 | 0.46 | 13.1 |
| 4/14/2015 | 13:20:15 | 54.46 | 52.06 | 154 | 3.98 | 0.42 | 8.4 |
| 4/14/2015 | 13:20:16 | 54.79 | 52.39 | 230 | 3.68 | 0.38 | 12.6 |
| 4/14/2015 | 13:20:17 | 55.12 | 52.72 | 301 | 3.14 | 0.43 | 16.5 |
| 4/14/2015 | 13:20:18 | 55.45 | 53.05 | 373 | 3.36 | 0.43 | 20.4 |
| 4/14/2015 | 13:20:19 | 55.77 | 53.37 | 286 | 3.26 | 0.43 | 15.6 |
| 4/14/2015 | 13:20:21 | 56.10 | 53.70 | 229 | 2.81 | 0.42 | 12.5 |
| 4/14/2015 | 13:20:22 | 56.43 | 54.03 | 272 | 2.87 | 0.41 | 14.9 |
| 4/14/2015 | 13:20:23 | 56.76 | 54.36 | 317 | 2.74 | 0.39 | 17.3 |
| 4/14/2015 | 13:20:24 | 57.09 | 54.69 | 346 | 4.40 | 0.43 | 18.9 |
| 4/14/2015 | 13:20:26 | 57.41 | 55.01 | 302 | 3.88 | 0.45 | 16.5 |
| 4/14/2015 | 13:20:28 | 57.74 | 55.34 | 145 | 4.57 | 0.43 | 7.9 |
| 4/14/2015 | 13:20:31 | 58.07 | 55.67 | 143 | 4.17 | 0.43 | 7.8 |
| 4/14/2015 | 13:20:35 | 58.35 | 55.95 | 81 | 2.76 | 0.17 | 4.4 |

## KCB-325-4 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 13:14:32

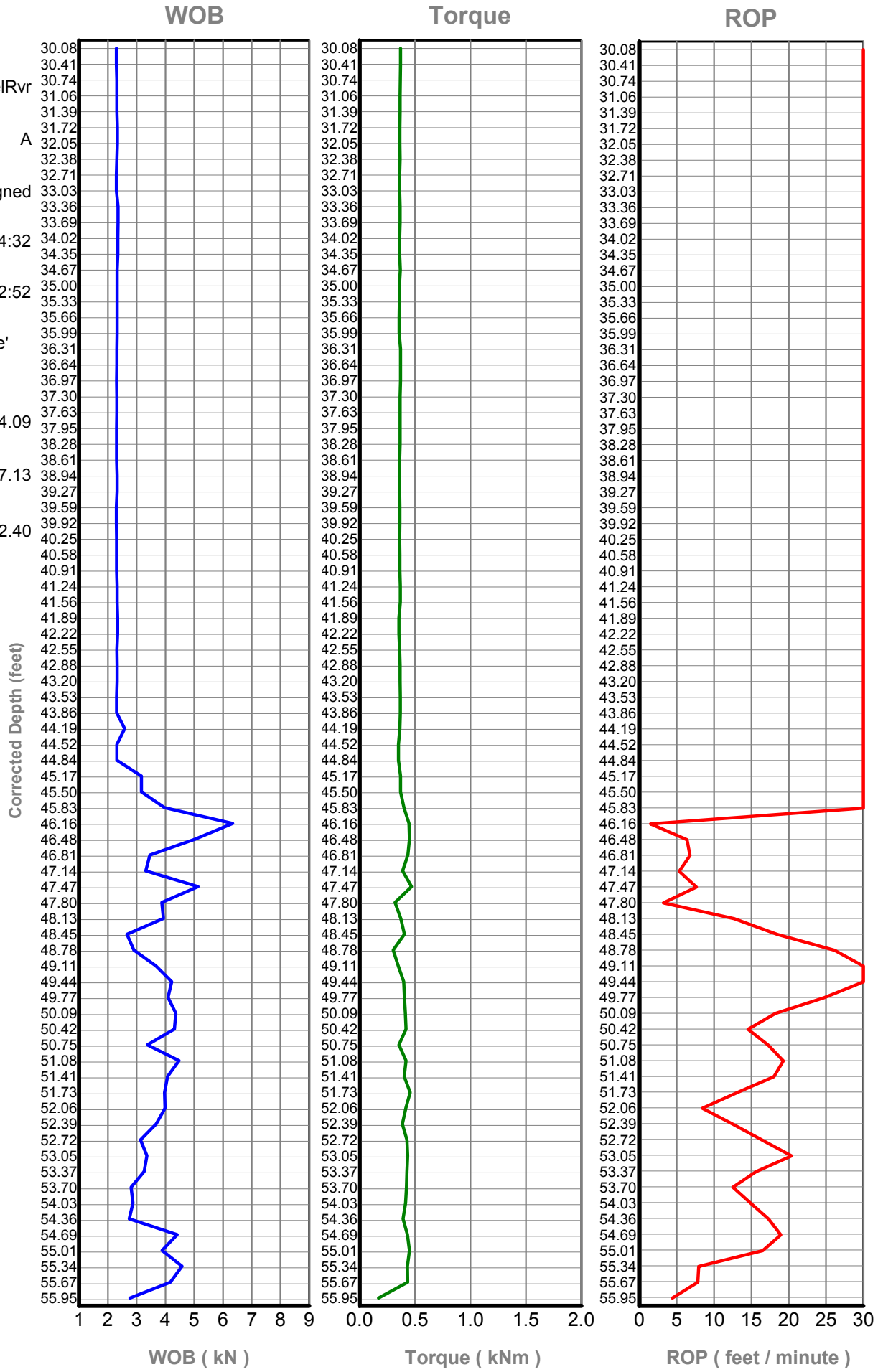
**End Date:**
4/14/2015 13:22:52

**Operator Note:**
'2.4 3.3 a Auto Complete'

**Northing:**
362,104.09

**Easting:**
245,607.13

**Tide (feet):**
2.40



## Hole: KCB-325-5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 10:56:03 | 35.76 | 30.16 | 256 | 1.81 | 0.83 | 14.0 |
| 4/15/2015 10:56:09 | 36.09 | 30.49 | 0 | 2.04 | 0.81 | 0.0 |
| 4/15/2015 10:56:10 | 36.42 | 30.82 | 151 | 2.00 | 0.81 | 8.3 |
| 4/15/2015 10:56:11 | 36.75 | 31.15 | 246 | 1.82 | 0.81 | 13.4 |
| 4/15/2015 10:56:12 | 37.07 | 31.47 | 431 | 2.00 | 0.81 | 23.6 |
| 4/15/2015 10:56:12 | 37.40 | 31.80 | 474 | 1.88 | 0.81 | 25.9 |
| 4/15/2015 10:56:13 | 37.73 | 32.13 | 468 | 2.04 | 0.80 | 25.6 |
| 4/15/2015 10:56:14 | 38.06 | 32.46 | 471 | 2.08 | 0.80 | 25.8 |
| 4/15/2015 10:56:15 | 38.39 | 32.79 | 471 | 2.04 | 0.80 | 25.8 |
| 4/15/2015 10:56:16 | 38.71 | 33.11 | 463 | 2.08 | 0.80 | 25.3 |
| 4/15/2015 10:56:16 | 39.04 | 33.44 | 463 | 2.02 | 0.80 | 25.3 |
| 4/15/2015 10:56:17 | 39.37 | 33.77 | 469 | 1.81 | 0.80 | 25.6 |
| 4/15/2015 10:56:18 | 39.70 | 34.10 | 469 | 2.12 | 0.80 | 25.6 |
| 4/15/2015 10:56:19 | 40.03 | 34.43 | 475 | 1.79 | 0.80 | 26.0 |
| 4/15/2015 10:56:19 | 40.35 | 34.75 | 472 | 1.78 | 0.80 | 25.8 |
| 4/15/2015 10:56:20 | 40.68 | 35.08 | 469 | 1.83 | 0.80 | 25.7 |
| 4/15/2015 10:56:21 | 41.01 | 35.41 | 477 | 1.77 | 0.80 | 26.1 |
| 4/15/2015 10:56:22 | 41.34 | 35.74 | 464 | 2.04 | 0.80 | 25.4 |
| 4/15/2015 10:56:22 | 41.67 | 36.07 | 463 | 1.79 | 0.80 | 25.3 |
| 4/15/2015 10:56:23 | 41.99 | 36.39 | 455 | 1.87 | 0.80 | 24.9 |
| 4/15/2015 10:56:24 | 42.32 | 36.72 | 464 | 1.72 | 0.78 | 25.4 |
| 4/15/2015 10:56:25 | 42.65 | 37.05 | 461 | 1.94 | 0.79 | 25.2 |
| 4/15/2015 10:56:26 | 42.98 | 37.38 | 464 | 2.05 | 0.80 | 25.4 |
| 4/15/2015 10:56:26 | 43.31 | 37.71 | 471 | 2.04 | 0.79 | 25.8 |
| 4/15/2015 10:56:27 | 43.64 | 38.04 | 468 | 1.94 | 0.79 | 25.6 |
| 4/15/2015 10:56:28 | 43.96 | 38.36 | 468 | 1.82 | 0.80 | 25.6 |
| 4/15/2015 10:56:29 | 44.29 | 38.69 | 468 | 1.79 | 0.79 | 25.6 |
| 4/15/2015 10:56:29 | 44.62 | 39.02 | 468 | 1.72 | 0.79 | 25.6 |
| 4/15/2015 10:56:30 | 44.95 | 39.35 | 471 | 1.82 | 0.79 | 25.8 |
| 4/15/2015 10:56:31 | 45.28 | 39.68 | 469 | 1.88 | 0.79 | 25.6 |
| 4/15/2015 10:56:32 | 45.60 | 40.00 | 468 | 2.04 | 0.79 | 25.6 |
| 4/15/2015 10:56:32 | 45.93 | 40.33 | 468 | 2.05 | 0.79 | 25.6 |
| 4/15/2015 10:56:33 | 46.26 | 40.66 | 465 | 2.04 | 0.79 | 25.5 |
| 4/15/2015 10:56:34 | 46.59 | 40.99 | 461 | 1.73 | 0.79 | 25.2 |
| 4/15/2015 10:56:34 | 46.92 | 41.32 | 467 | 1.83 | 0.79 | 25.5 |
| 4/15/2015 10:56:36 | 47.24 | 41.64 | 464 | 2.05 | 0.79 | 25.4 |
| 4/15/2015 10:56:36 | 47.57 | 41.97 | 464 | 2.03 | 0.79 | 25.4 |
| 4/15/2015 10:56:37 | 47.90 | 42.30 | 465 | 2.09 | 0.79 | 25.4 |
| 4/15/2015 10:56:38 | 48.23 | 42.63 | 468 | 1.83 | 0.79 | 25.6 |
| 4/15/2015 10:56:39 | 48.56 | 42.96 | 471 | 1.88 | 0.79 | 25.8 |
| 4/15/2015 10:56:39 | 48.88 | 43.28 | 468 | 1.76 | 0.78 | 25.6 |
| 4/15/2015 10:56:40 | 49.21 | 43.61 | 465 | 2.08 | 0.79 | 25.5 |
| 4/15/2015 10:56:41 | 49.54 | 43.94 | 463 | 1.99 | 0.79 | 25.3 |
| 4/15/2015 10:56:42 | 49.87 | 44.27 | 471 | 1.82 | 0.86 | 25.8 |
| 4/15/2015 10:56:43 | 50.20 | 44.60 | 465 | 1.93 | 1.49 | 25.5 |
| 4/15/2015 10:57:15 | 50.53 | 44.93 | 29 | 1.99 | 1.43 | 1.6 |
| 4/15/2015 10:57:38 | 50.85 | 45.25 | 11 | 1.95 | 0.99 | 0.6 |
| 4/15/2015 10:58:04 | 51.18 | 45.58 | 9 | 2.08 | 1.07 | 0.5 |
| 4/15/2015 10:58:46 | 51.51 | 45.91 | 0 | 2.04 | 1.47 | 0.0 |
| 4/15/2015 10:59:08 | 51.84 | 46.24 | 15 | 1.90 | 1.34 | 0.8 |
| 4/15/2015 10:59:36 | 52.17 | 46.57 | 43 | 1.98 | 1.19 | 2.3 |
| 4/15/2015 11:02:21 | 52.49 | 46.89 | 0 | 2.00 | 1.13 | 0.0 |
| 4/15/2015 11:02:31 | 52.82 | 47.22 | 0 | 1.92 | 1.09 | 0.0 |
| 4/15/2015 11:12:30 | 53.15 | 47.55 | 97 | 2.06 | 1.10 | 5.3 |
| 4/15/2015 11:12:32 | 53.48 | 47.88 | 260 | 2.07 | 1.20 | 14.2 |
| 4/15/2015 11:12:33 | 53.81 | 48.21 | 297 | 2.02 | 1.11 | 16.3 |
| 4/15/2015 11:13:16 | 54.13 | 48.53 | 0 | 1.85 | 0.91 | 0.0 |
| 4/15/2015 11:13:18 | 54.46 | 48.86 | 97 | 1.93 | 1.29 | 5.3 |
| 4/15/2015 11:13:19 | 54.79 | 49.19 | 237 | 1.92 | 1.08 | 13.0 |
| 4/15/2015 11:13:20 | 55.12 | 49.52 | 326 | 1.92 | 1.09 | 17.8 |
| 4/15/2015 11:13:20 | 55.45 | 49.85 | 379 | 2.14 | 1.20 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 11:13:21 | 55.77 | 50.17 | 402 | 1.89 | 1.12 | 22.0 |
| 4/15/2015 | 11:13:22 | 56.10 | 50.50 | 410 | 1.94 | 1.09 | 22.4 |
| 4/15/2015 | 11:13:23 | 56.43 | 50.83 | 417 | 1.93 | 1.10 | 22.8 |
| 4/15/2015 | 11:13:24 | 56.76 | 51.16 | 416 | 2.12 | 1.10 | 22.8 |
| 4/15/2015 | 11:13:25 | 57.09 | 51.49 | 419 | 1.90 | 1.09 | 22.9 |
| 4/15/2015 | 11:13:26 | 57.41 | 51.81 | 419 | 2.17 | 1.11 | 22.9 |
| 4/15/2015 | 11:13:27 | 57.74 | 52.14 | 422 | 2.10 | 1.05 | 23.1 |
| 4/15/2015 | 11:13:28 | 58.07 | 52.47 | 416 | 2.00 | 0.95 | 22.8 |
| 4/15/2015 | 11:13:28 | 58.40 | 52.80 | 428 | 2.06 | 1.05 | 23.4 |
| 4/15/2015 | 11:13:29 | 58.73 | 53.13 | 428 | 2.03 | 1.11 | 23.4 |
| 4/15/2015 | 11:13:30 | 59.06 | 53.46 | 423 | 1.91 | 1.17 | 23.1 |
| 4/15/2015 | 11:13:31 | 59.38 | 53.78 | 407 | 1.98 | 1.14 | 22.3 |
| 4/15/2015 | 11:13:32 | 59.71 | 54.11 | 409 | 2.03 | 1.18 | 22.4 |
| 4/15/2015 | 11:13:33 | 60.04 | 54.44 | 383 | 2.06 | 1.31 | 20.9 |
| 4/15/2015 | 11:13:34 | 60.37 | 54.77 | 358 | 2.02 | 1.12 | 19.6 |
| 4/15/2015 | 11:13:35 | 60.70 | 55.10 | 336 | 2.04 | 1.20 | 18.4 |
| 4/15/2015 | 11:13:36 | 61.02 | 55.42 | 341 | 2.08 | 1.47 | 18.6 |
| 4/15/2015 | 11:13:37 | 61.15 | 55.55 | 317 | 2.12 | 1.45 | 17.4 |

## KCB-325-5 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/15/2015 10:52:01

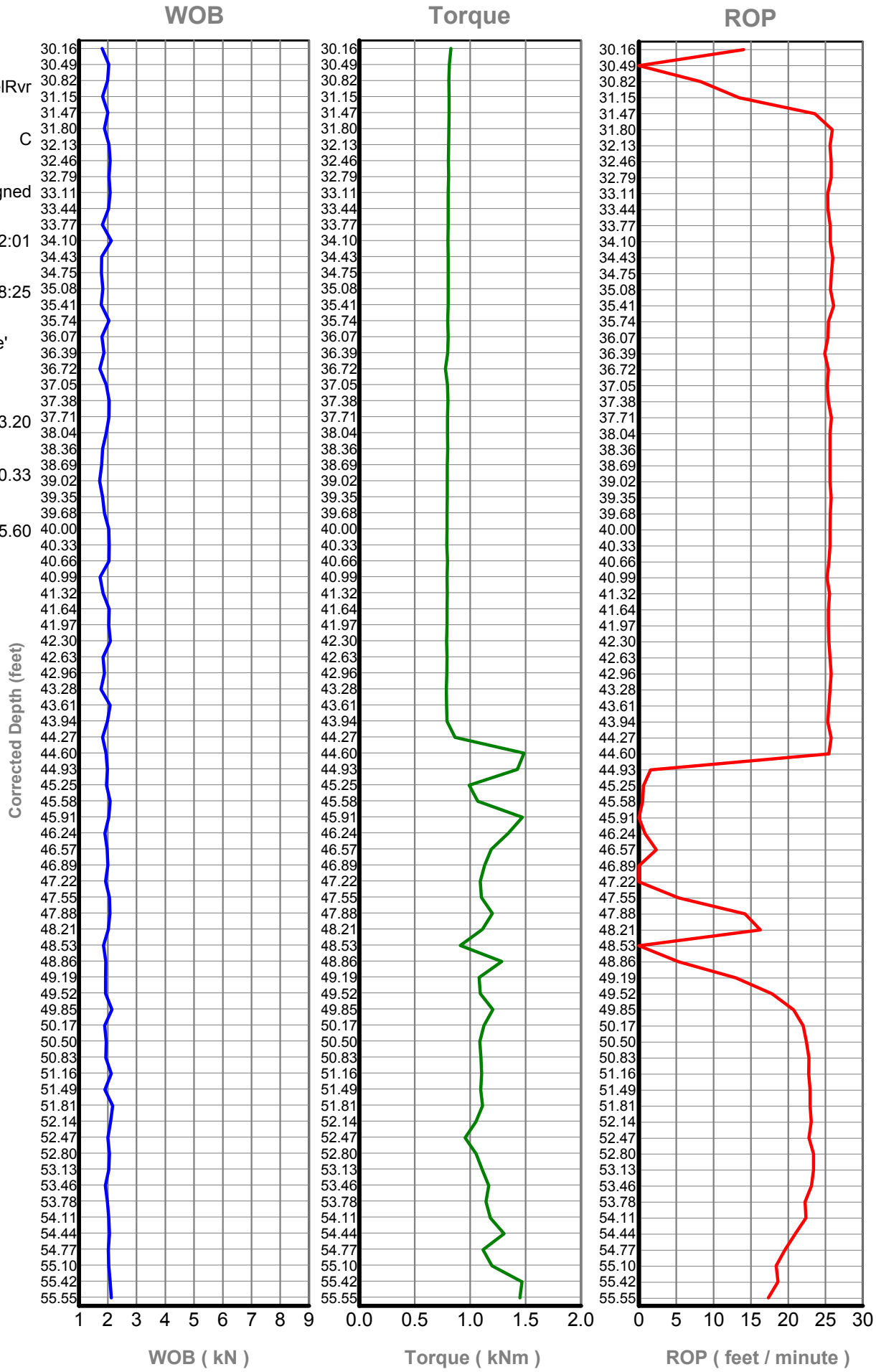
**End Date:**
4/15/2015 11:18:25

**Operator Note:**
'5.6 5.7 c Auto Complete'

**Northing:**
362,083.20

**Easting:**
245,610.33

**Tide (feet):**
5.60



## Hole: KCB-325-6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 13:28:07 | 32.48 | 30.18 | 993 | 1.67 | 0.32 | 54.3 |
| 4/14/2015 13:28:07 | 32.81 | 30.51 | 1,008 | 2.01 | 0.37 | 55.1 |
| 4/14/2015 13:28:08 | 33.14 | 30.84 | 1,008 | 2.01 | 0.37 | 55.1 |
| 4/14/2015 13:28:08 | 33.46 | 31.16 | 1,032 | 2.38 | 0.36 | 56.5 |
| 4/14/2015 13:28:08 | 33.79 | 31.49 | 1,050 | 2.33 | 0.37 | 57.4 |
| 4/14/2015 13:28:09 | 34.12 | 31.82 | 1,050 | 2.33 | 0.37 | 57.4 |
| 4/14/2015 13:28:09 | 34.45 | 32.15 | 1,050 | 2.36 | 0.37 | 57.4 |
| 4/14/2015 13:28:09 | 34.78 | 32.48 | 1,050 | 2.36 | 0.37 | 57.4 |
| 4/14/2015 13:28:09 | 35.11 | 32.81 | 1,118 | 2.39 | 0.37 | 61.2 |
| 4/14/2015 13:28:10 | 35.43 | 33.13 | 1,118 | 2.39 | 0.37 | 61.2 |
| 4/14/2015 13:28:10 | 35.76 | 33.46 | 1,159 | 2.38 | 0.38 | 63.4 |
| 4/14/2015 13:28:11 | 36.09 | 33.79 | 1,178 | 2.38 | 0.37 | 64.4 |
| 4/14/2015 13:28:11 | 36.42 | 34.12 | 1,178 | 2.38 | 0.37 | 64.4 |
| 4/14/2015 13:28:11 | 36.75 | 34.45 | 1,206 | 2.37 | 0.37 | 66.0 |
| 4/14/2015 13:28:12 | 37.07 | 34.77 | 1,206 | 2.37 | 0.37 | 66.0 |
| 4/14/2015 13:28:12 | 37.40 | 35.10 | 1,223 | 2.38 | 0.37 | 66.9 |
| 4/14/2015 13:28:12 | 37.73 | 35.43 | 1,223 | 2.38 | 0.37 | 66.9 |
| 4/14/2015 13:28:12 | 38.06 | 35.76 | 1,209 | 2.37 | 0.37 | 66.1 |
| 4/14/2015 13:28:13 | 38.39 | 36.09 | 1,200 | 2.36 | 0.36 | 65.6 |
| 4/14/2015 13:28:13 | 38.71 | 36.41 | 1,200 | 2.36 | 0.36 | 65.6 |
| 4/14/2015 13:28:13 | 39.04 | 36.74 | 1,222 | 2.35 | 0.36 | 66.8 |
| 4/14/2015 13:28:14 | 39.37 | 37.07 | 1,222 | 2.35 | 0.36 | 66.8 |
| 4/14/2015 13:28:14 | 39.70 | 37.40 | 1,209 | 2.33 | 0.37 | 66.1 |
| 4/14/2015 13:28:14 | 40.03 | 37.73 | 1,209 | 2.33 | 0.37 | 66.1 |
| 4/14/2015 13:28:14 | 40.35 | 38.05 | 1,209 | 2.36 | 0.38 | 66.1 |
| 4/14/2015 13:28:15 | 40.68 | 38.38 | 1,199 | 2.33 | 0.37 | 65.6 |
| 4/14/2015 13:28:15 | 41.01 | 38.71 | 1,199 | 2.33 | 0.37 | 65.6 |
| 4/14/2015 13:28:15 | 41.34 | 39.04 | 1,215 | 2.34 | 0.36 | 66.5 |
| 4/14/2015 13:28:16 | 41.67 | 39.37 | 1,215 | 2.34 | 0.36 | 66.5 |
| 4/14/2015 13:28:16 | 41.99 | 39.69 | 1,182 | 2.33 | 0.37 | 64.6 |
| 4/14/2015 13:28:16 | 42.32 | 40.02 | 1,182 | 2.33 | 0.37 | 64.6 |
| 4/14/2015 13:28:16 | 42.65 | 40.35 | 1,197 | 2.33 | 0.37 | 65.4 |
| 4/14/2015 13:28:17 | 42.98 | 40.68 | 1,195 | 2.33 | 0.37 | 65.3 |
| 4/14/2015 13:28:17 | 43.31 | 41.01 | 1,195 | 2.33 | 0.37 | 65.3 |
| 4/14/2015 13:28:17 | 43.64 | 41.34 | 1,202 | 2.37 | 0.37 | 65.7 |
| 4/14/2015 13:28:18 | 43.96 | 41.66 | 1,202 | 2.37 | 0.37 | 65.7 |
| 4/14/2015 13:28:18 | 44.29 | 41.99 | 1,184 | 2.35 | 0.36 | 64.8 |
| 4/14/2015 13:28:18 | 44.62 | 42.32 | 1,184 | 2.35 | 0.36 | 64.8 |
| 4/14/2015 13:28:18 | 44.95 | 42.65 | 1,215 | 2.35 | 0.37 | 66.4 |
| 4/14/2015 13:28:19 | 45.28 | 42.98 | 1,197 | 2.34 | 0.37 | 65.5 |
| 4/14/2015 13:28:19 | 45.60 | 43.30 | 1,197 | 2.34 | 0.37 | 65.5 |
| 4/14/2015 13:28:19 | 45.93 | 43.63 | 1,199 | 2.34 | 0.37 | 65.6 |
| 4/14/2015 13:28:20 | 46.26 | 43.96 | 1,199 | 2.34 | 0.37 | 65.6 |
| 4/14/2015 13:28:20 | 46.59 | 44.29 | 1,199 | 2.33 | 0.37 | 65.6 |
| 4/14/2015 13:28:20 | 46.92 | 44.62 | 1,199 | 2.33 | 0.37 | 65.6 |
| 4/14/2015 13:28:20 | 47.24 | 44.94 | 1,203 | 2.31 | 0.36 | 65.8 |
| 4/14/2015 13:28:21 | 47.57 | 45.27 | 1,185 | 4.18 | 0.44 | 64.8 |
| 4/14/2015 13:28:29 | 47.90 | 45.60 | 6 | 2.77 | 0.30 | 0.3 |
| 4/14/2015 13:28:30 | 48.23 | 45.93 | 143 | 3.73 | 0.32 | 7.8 |
| 4/14/2015 13:28:31 | 48.56 | 46.26 | 229 | 3.90 | 0.32 | 12.5 |
| 4/14/2015 13:28:32 | 48.88 | 46.58 | 432 | 4.19 | 0.44 | 23.6 |
| 4/14/2015 13:28:34 | 49.21 | 46.91 | 324 | 5.44 | 0.42 | 17.7 |
| 4/14/2015 13:28:35 | 49.54 | 47.24 | 228 | 4.26 | 0.42 | 12.5 |
| 4/14/2015 13:28:37 | 49.87 | 47.57 | 247 | 4.24 | 0.44 | 13.5 |
| 4/14/2015 13:28:39 | 50.20 | 47.90 | 150 | 3.60 | 0.35 | 8.2 |
| 4/14/2015 13:28:40 | 50.53 | 48.23 | 220 | 4.13 | 0.42 | 12.0 |
| 4/14/2015 13:28:41 | 50.85 | 48.55 | 295 | 3.24 | 0.39 | 16.1 |
| 4/14/2015 13:28:42 | 51.18 | 48.88 | 309 | 2.99 | 0.31 | 16.9 |
| 4/14/2015 13:28:43 | 51.51 | 49.21 | 359 | 3.02 | 0.39 | 19.6 |
| 4/14/2015 13:28:44 | 51.84 | 49.54 | 465 | 4.15 | 0.40 | 25.4 |
| 4/14/2015 13:28:44 | 52.17 | 49.87 | 556 | 4.47 | 0.44 | 30.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 13:28:46 | 52.49 | 50.19 | 286 | 4.47 | 0.44 | 15.6 |
| 4/14/2015 | 13:28:48 | 52.82 | 50.52 | 224 | 3.35 | 0.36 | 12.2 |
| 4/14/2015 | 13:28:49 | 53.15 | 50.85 | 303 | 4.15 | 0.39 | 16.6 |
| 4/14/2015 | 13:28:52 | 53.48 | 51.18 | 86 | 4.34 | 0.37 | 4.7 |
| 4/14/2015 | 13:28:53 | 53.81 | 51.51 | 94 | 3.84 | 0.40 | 5.1 |
| 4/14/2015 | 13:28:53 | 54.13 | 51.83 | 140 | 3.96 | 0.31 | 7.7 |
| 4/14/2015 | 13:28:54 | 54.46 | 52.16 | 249 | 3.51 | 0.39 | 13.6 |
| 4/14/2015 | 13:28:55 | 54.79 | 52.49 | 349 | 3.81 | 0.42 | 19.1 |
| 4/14/2015 | 13:28:56 | 55.12 | 52.82 | 459 | 3.20 | 0.40 | 25.1 |
| 4/14/2015 | 13:28:56 | 55.45 | 53.15 | 475 | 3.55 | 0.41 | 26.0 |
| 4/14/2015 | 13:28:58 | 55.77 | 53.47 | 280 | 3.10 | 0.44 | 15.3 |
| 4/14/2015 | 13:29:00 | 56.10 | 53.80 | 158 | 2.90 | 0.43 | 8.6 |
| 4/14/2015 | 13:29:02 | 56.43 | 54.13 | 180 | 2.84 | 0.40 | 9.8 |
| 4/14/2015 | 13:29:02 | 56.76 | 54.46 | 226 | 3.07 | 0.41 | 12.4 |
| 4/14/2015 | 13:29:05 | 57.09 | 54.79 | 252 | 3.96 | 0.44 | 13.8 |
| 4/14/2015 | 13:29:07 | 57.41 | 55.11 | 187 | 4.19 | 0.41 | 10.2 |
| 4/14/2015 | 13:29:08 | 57.74 | 55.44 | 204 | 4.32 | 0.44 | 11.1 |
| 4/14/2015 | 13:29:14 | 58.07 | 55.77 | 47 | 5.03 | 0.47 | 2.6 |
| 4/14/2015 | 13:29:20 | 58.20 | 55.90 | 23 | 5.21 | 0.43 | 1.3 |

## KCB-325-6 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 13:23:55

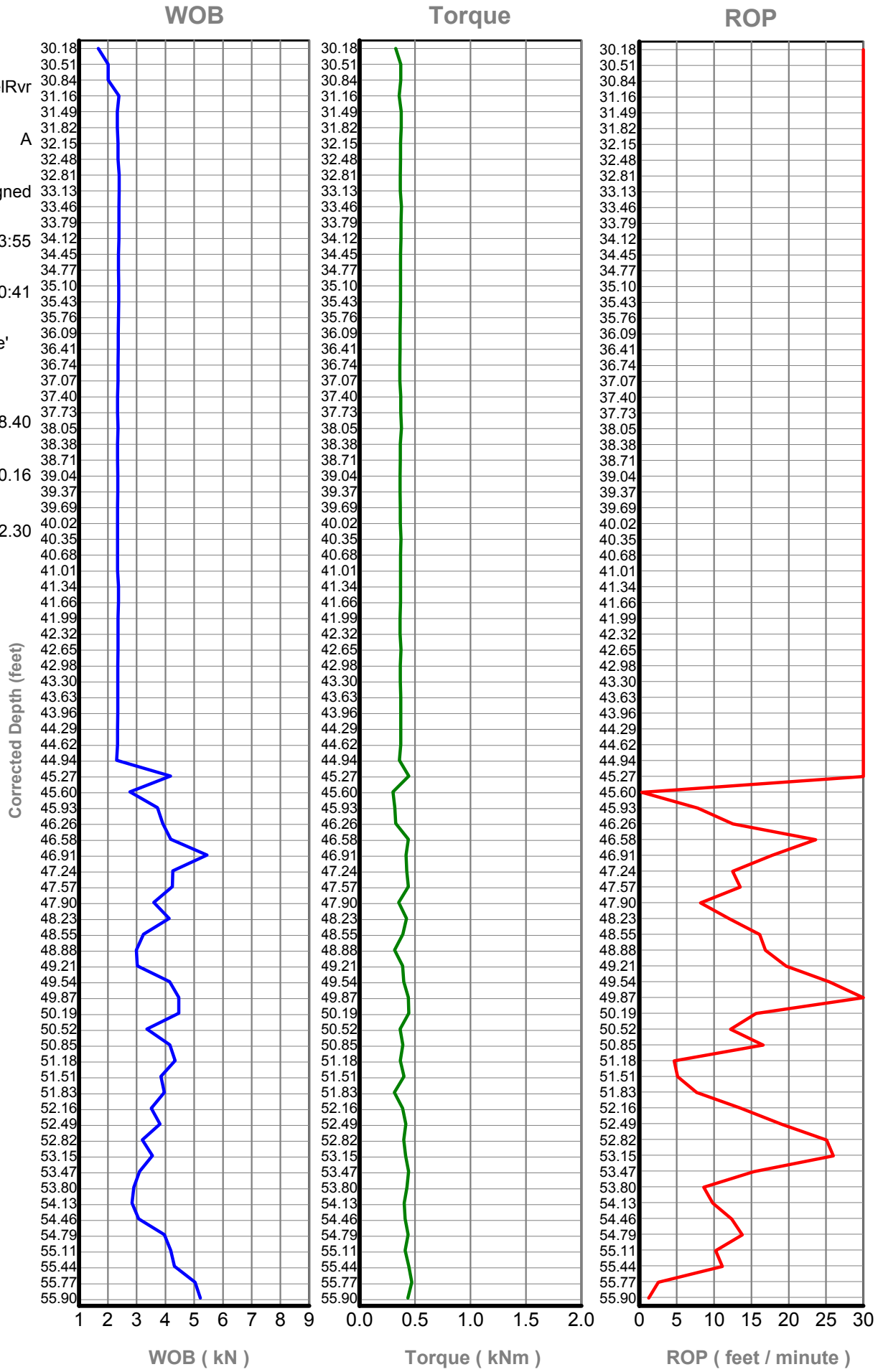
**End Date:**
4/14/2015 13:30:41

**Operator Note:**
'2.3 3.2 a Auto Complete'

**Northing:**
362,098.40

**Easting:**
245,610.16

**Tide (feet):**
2.30



## Hole: KCB-325-7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 11:24:00 | 35.43 | 30.23 | 511 | 1.93 | 0.14 | 27.9 |
| 4/15/2015 11:24:01 | 35.76 | 30.56 | 511 | 1.91 | 0.14 | 27.9 |
| 4/15/2015 11:24:02 | 36.09 | 30.89 | 499 | 1.92 | 0.13 | 27.3 |
| 4/15/2015 11:24:02 | 36.42 | 31.22 | 511 | 1.93 | 0.13 | 28.0 |
| 4/15/2015 11:24:03 | 36.75 | 31.55 | 511 | 1.93 | 0.13 | 28.0 |
| 4/15/2015 11:24:04 | 37.07 | 31.87 | 527 | 1.91 | 0.13 | 28.8 |
| 4/15/2015 11:24:04 | 37.40 | 32.20 | 526 | 1.93 | 0.15 | 28.8 |
| 4/15/2015 11:24:05 | 37.73 | 32.53 | 520 | 1.93 | 0.20 | 28.4 |
| 4/15/2015 11:24:06 | 38.06 | 32.86 | 511 | 1.92 | 0.28 | 27.9 |
| 4/15/2015 11:24:06 | 38.39 | 33.19 | 511 | 1.92 | 0.29 | 27.9 |
| 4/15/2015 11:24:07 | 38.71 | 33.51 | 507 | 1.93 | 0.29 | 27.7 |
| 4/15/2015 11:24:08 | 39.04 | 33.84 | 502 | 1.93 | 0.29 | 27.4 |
| 4/15/2015 11:24:08 | 39.37 | 34.17 | 502 | 1.92 | 0.29 | 27.4 |
| 4/15/2015 11:24:09 | 39.70 | 34.50 | 513 | 1.95 | 0.29 | 28.1 |
| 4/15/2015 11:24:10 | 40.03 | 34.83 | 525 | 1.93 | 0.29 | 28.7 |
| 4/15/2015 11:24:11 | 40.35 | 35.15 | 503 | 1.93 | 0.29 | 27.5 |
| 4/15/2015 11:24:11 | 40.68 | 35.48 | 503 | 1.93 | 0.29 | 27.5 |
| 4/15/2015 11:24:12 | 41.01 | 35.81 | 500 | 1.93 | 0.29 | 27.3 |
| 4/15/2015 11:24:13 | 41.34 | 36.14 | 500 | 1.93 | 0.29 | 27.3 |
| 4/15/2015 11:24:13 | 41.67 | 36.47 | 500 | 1.93 | 0.29 | 27.4 |
| 4/15/2015 11:24:14 | 41.99 | 36.79 | 519 | 1.92 | 0.29 | 28.4 |
| 4/15/2015 11:24:15 | 42.32 | 37.12 | 502 | 1.93 | 0.29 | 27.5 |
| 4/15/2015 11:24:16 | 42.65 | 37.45 | 512 | 1.93 | 0.29 | 28.0 |
| 4/15/2015 11:24:16 | 42.98 | 37.78 | 505 | 1.93 | 0.29 | 27.6 |
| 4/15/2015 11:24:17 | 43.31 | 38.11 | 505 | 1.92 | 0.29 | 27.6 |
| 4/15/2015 11:24:18 | 43.64 | 38.44 | 496 | 1.94 | 0.29 | 27.1 |
| 4/15/2015 11:24:18 | 43.96 | 38.76 | 504 | 1.93 | 0.29 | 27.6 |
| 4/15/2015 11:24:19 | 44.29 | 39.09 | 504 | 1.93 | 0.29 | 27.6 |
| 4/15/2015 11:24:20 | 44.62 | 39.42 | 509 | 1.93 | 0.29 | 27.8 |
| 4/15/2015 11:24:21 | 44.95 | 39.75 | 515 | 1.93 | 0.29 | 28.1 |
| 4/15/2015 11:24:21 | 45.28 | 40.08 | 517 | 1.93 | 0.29 | 28.3 |
| 4/15/2015 11:24:22 | 45.60 | 40.40 | 520 | 1.93 | 0.29 | 28.4 |
| 4/15/2015 11:24:23 | 45.93 | 40.73 | 517 | 1.93 | 0.29 | 28.3 |
| 4/15/2015 11:24:23 | 46.26 | 41.06 | 512 | 1.93 | 0.29 | 28.0 |
| 4/15/2015 11:24:41 | 46.59 | 41.39 | 82 | 1.82 | 0.30 | 4.5 |
| 4/15/2015 11:24:42 | 46.92 | 41.72 | 177 | 1.91 | 0.30 | 9.7 |
| 4/15/2015 11:24:43 | 47.24 | 42.04 | 258 | 1.84 | 0.30 | 14.1 |
| 4/15/2015 11:24:43 | 47.57 | 42.37 | 354 | 2.06 | 0.30 | 19.3 |
| 4/15/2015 11:24:44 | 47.90 | 42.70 | 455 | 2.01 | 0.95 | 24.9 |
| 4/15/2015 11:24:45 | 48.23 | 43.03 | 442 | 1.93 | 1.22 | 24.2 |
| 4/15/2015 11:24:46 | 48.56 | 43.36 | 442 | 2.04 | 1.30 | 24.2 |
| 4/15/2015 11:24:48 | 48.88 | 43.68 | 212 | 2.08 | 1.45 | 11.6 |
| 4/15/2015 11:24:55 | 49.21 | 44.01 | 102 | 2.04 | 1.35 | 5.6 |
| 4/15/2015 11:24:56 | 49.54 | 44.34 | 186 | 2.02 | 1.15 | 10.2 |
| 4/15/2015 11:24:57 | 49.87 | 44.67 | 234 | 2.04 | 1.25 | 12.8 |
| 4/15/2015 11:24:58 | 50.20 | 45.00 | 339 | 2.03 | 1.24 | 18.5 |
| 4/15/2015 11:24:59 | 50.53 | 45.33 | 374 | 2.03 | 1.16 | 20.5 |
| 4/15/2015 11:25:00 | 50.85 | 45.65 | 387 | 2.02 | 1.17 | 21.2 |
| 4/15/2015 11:25:11 | 51.18 | 45.98 | 26 | 2.06 | 1.17 | 1.4 |
| 4/15/2015 11:25:12 | 51.51 | 46.31 | 185 | 1.95 | 1.11 | 10.1 |
| 4/15/2015 11:25:14 | 51.84 | 46.64 | 350 | 2.12 | 1.19 | 19.2 |
| 4/15/2015 11:25:14 | 52.17 | 46.97 | 408 | 2.03 | 1.03 | 22.3 |
| 4/15/2015 11:25:15 | 52.49 | 47.29 | 425 | 2.08 | 0.94 | 23.3 |
| 4/15/2015 11:25:16 | 52.82 | 47.62 | 437 | 1.89 | 1.15 | 23.9 |
| 4/15/2015 11:25:17 | 53.15 | 47.95 | 451 | 2.13 | 1.10 | 24.7 |
| 4/15/2015 11:25:17 | 53.48 | 48.28 | 445 | 2.17 | 1.05 | 24.3 |
| 4/15/2015 11:25:18 | 53.81 | 48.61 | 442 | 2.01 | 1.07 | 24.2 |
| 4/15/2015 11:25:20 | 54.13 | 48.93 | 337 | 2.08 | 1.51 | 18.4 |
| 4/15/2015 11:25:44 | 54.46 | 49.26 | 69 | 2.02 | 1.24 | 3.8 |
| 4/15/2015 11:25:45 | 54.79 | 49.59 | 205 | 2.12 | 1.05 | 11.2 |
| 4/15/2015 11:25:46 | 55.12 | 49.92 | 361 | 2.14 | 1.06 | 19.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 11:25:47 | 55.45 | 50.25 | 382 | 1.95 | 1.42 | 20.9 |
| 4/15/2015 | 11:25:54 | 55.77 | 50.57 | 6 | 2.06 | 1.28 | 0.3 |
| 4/15/2015 | 11:25:56 | 56.10 | 50.90 | 143 | 2.03 | 1.20 | 7.8 |
| 4/15/2015 | 11:25:57 | 56.43 | 51.23 | 297 | 2.04 | 1.21 | 16.2 |
| 4/15/2015 | 11:25:58 | 56.76 | 51.56 | 391 | 2.00 | 1.22 | 21.4 |
| 4/15/2015 | 11:25:58 | 57.09 | 51.89 | 408 | 2.03 | 1.31 | 22.3 |
| 4/15/2015 | 11:25:59 | 57.41 | 52.21 | 424 | 2.01 | 1.30 | 23.2 |
| 4/15/2015 | 11:26:00 | 57.74 | 52.54 | 425 | 2.02 | 1.18 | 23.2 |
| 4/15/2015 | 11:26:01 | 58.07 | 52.87 | 422 | 2.02 | 1.16 | 23.1 |
| 4/15/2015 | 11:26:02 | 58.40 | 53.20 | 403 | 2.04 | 1.40 | 22.0 |
| 4/15/2015 | 11:26:03 | 58.73 | 53.53 | 399 | 2.03 | 1.17 | 21.8 |
| 4/15/2015 | 11:26:03 | 59.06 | 53.86 | 400 | 2.02 | 1.13 | 21.9 |
| 4/15/2015 | 11:26:04 | 59.38 | 54.18 | 407 | 2.07 | 1.29 | 22.3 |
| 4/15/2015 | 11:26:06 | 59.71 | 54.51 | 384 | 2.06 | 1.45 | 21.0 |
| 4/15/2015 | 11:26:07 | 60.04 | 54.84 | 318 | 2.09 | 1.29 | 17.4 |
| 4/15/2015 | 11:26:08 | 60.37 | 55.17 | 298 | 2.08 | 1.36 | 16.3 |
| 4/15/2015 | 11:26:09 | 60.59 | 55.39 | 277 | 2.09 | 1.41 | 15.1 |

## KCB-325-7 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
4/15/2015 11:22:16

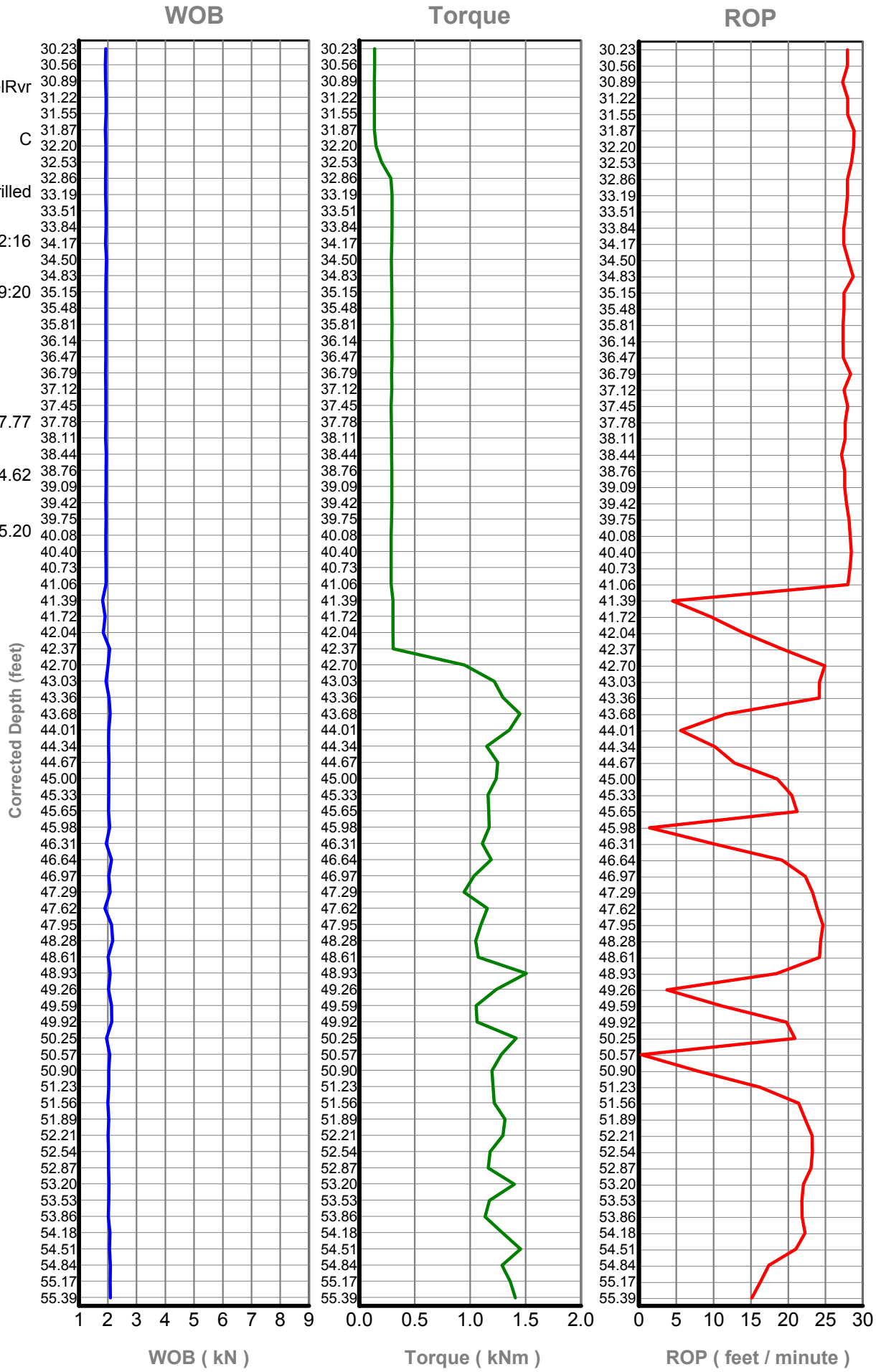
**End Date:**
4/15/2015 11:29:20

**Operator Note:**
'5.2 Auto Complete'

**Northing:**
362,087.77

**Easting:**
245,614.62

**Tide (feet):**
5.20



## Hole: KCB-325-8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/14/2015 13:35:44 | 32.48 | 30.28 | 1,182 | 2.32 | 0.37 | 64.6 |
| 4/14/2015 13:35:45 | 32.81 | 30.61 | 1,182 | 2.32 | 0.37 | 64.6 |
| 4/14/2015 13:35:45 | 33.14 | 30.94 | 1,176 | 2.31 | 0.36 | 64.3 |
| 4/14/2015 13:35:45 | 33.46 | 31.26 | 1,176 | 2.31 | 0.36 | 64.3 |
| 4/14/2015 13:35:45 | 33.79 | 31.59 | 1,185 | 2.33 | 0.37 | 64.8 |
| 4/14/2015 13:35:46 | 34.12 | 31.92 | 1,185 | 2.33 | 0.37 | 64.8 |
| 4/14/2015 13:35:46 | 34.45 | 32.25 | 1,175 | 2.32 | 0.37 | 64.2 |
| 4/14/2015 13:35:46 | 34.78 | 32.58 | 1,177 | 2.31 | 0.37 | 64.4 |
| 4/14/2015 13:35:47 | 35.11 | 32.91 | 1,177 | 2.31 | 0.37 | 64.4 |
| 4/14/2015 13:35:47 | 35.43 | 33.23 | 1,186 | 2.36 | 0.36 | 64.9 |
| 4/14/2015 13:35:47 | 35.76 | 33.56 | 1,186 | 2.36 | 0.36 | 64.9 |
| 4/14/2015 13:35:47 | 36.09 | 33.89 | 1,203 | 2.34 | 0.37 | 65.8 |
| 4/14/2015 13:35:48 | 36.42 | 34.22 | 1,191 | 2.33 | 0.36 | 65.1 |
| 4/14/2015 13:35:49 | 36.75 | 34.55 | 1,191 | 2.33 | 0.36 | 65.1 |
| 4/14/2015 13:35:48 | 37.07 | 34.87 | 1,184 | 2.34 | 0.37 | 64.8 |
| 4/14/2015 13:35:49 | 37.40 | 35.20 | 1,184 | 2.34 | 0.37 | 64.8 |
| 4/14/2015 13:35:49 | 37.73 | 35.53 | 1,200 | 2.36 | 0.36 | 65.6 |
| 4/14/2015 13:35:50 | 38.06 | 35.86 | 1,200 | 2.36 | 0.36 | 65.6 |
| 4/14/2015 13:35:50 | 38.39 | 36.19 | 1,193 | 2.33 | 0.36 | 65.2 |
| 4/14/2015 13:35:50 | 38.71 | 36.51 | 1,201 | 2.33 | 0.37 | 65.7 |
| 4/14/2015 13:35:51 | 39.04 | 36.84 | 1,201 | 2.33 | 0.37 | 65.7 |
| 4/14/2015 13:35:51 | 39.37 | 37.17 | 1,201 | 2.31 | 0.37 | 65.7 |
| 4/14/2015 13:35:51 | 39.70 | 37.50 | 1,201 | 2.31 | 0.37 | 65.7 |
| 4/14/2015 13:35:51 | 40.03 | 37.83 | 1,206 | 2.32 | 0.36 | 66.0 |
| 4/14/2015 13:35:52 | 40.35 | 38.15 | 1,206 | 2.32 | 0.36 | 66.0 |
| 4/14/2015 13:35:52 | 40.68 | 38.48 | 1,203 | 2.31 | 0.37 | 65.8 |
| 4/14/2015 13:35:52 | 41.01 | 38.81 | 1,205 | 2.33 | 0.37 | 65.9 |
| 4/14/2015 13:35:53 | 41.34 | 39.14 | 1,205 | 2.33 | 0.37 | 65.9 |
| 4/14/2015 13:35:53 | 41.67 | 39.47 | 1,187 | 2.31 | 0.36 | 64.9 |
| 4/14/2015 13:35:53 | 41.99 | 39.79 | 1,187 | 2.31 | 0.36 | 64.9 |
| 4/14/2015 13:35:53 | 42.32 | 40.12 | 1,191 | 2.29 | 0.37 | 65.1 |
| 4/14/2015 13:35:54 | 42.65 | 40.45 | 1,191 | 2.29 | 0.37 | 65.1 |
| 4/14/2015 13:35:54 | 42.98 | 40.78 | 1,185 | 2.30 | 0.36 | 64.8 |
| 4/14/2015 13:35:54 | 43.31 | 41.11 | 1,185 | 2.29 | 0.34 | 64.8 |
| 4/14/2015 13:35:55 | 43.64 | 41.44 | 1,185 | 2.29 | 0.34 | 64.8 |
| 4/14/2015 13:35:55 | 43.96 | 41.76 | 1,188 | 2.30 | 0.37 | 65.0 |
| 4/14/2015 13:35:55 | 44.29 | 42.09 | 1,188 | 2.30 | 0.37 | 65.0 |
| 4/14/2015 13:35:55 | 44.62 | 42.42 | 1,191 | 2.33 | 0.36 | 65.1 |
| 4/14/2015 13:35:56 | 44.95 | 42.75 | 1,191 | 2.33 | 0.36 | 65.1 |
| 4/14/2015 13:35:56 | 45.28 | 43.08 | 1,191 | 2.31 | 0.37 | 65.1 |
| 4/14/2015 13:35:56 | 45.60 | 43.40 | 1,194 | 2.34 | 0.36 | 65.3 |
| 4/14/2015 13:35:57 | 45.93 | 43.73 | 1,194 | 2.34 | 0.36 | 65.3 |
| 4/14/2015 13:35:57 | 46.26 | 44.06 | 1,181 | 2.32 | 0.36 | 64.6 |
| 4/14/2015 13:35:57 | 46.59 | 44.39 | 1,181 | 2.32 | 0.36 | 64.6 |
| 4/14/2015 13:35:57 | 46.92 | 44.72 | 1,191 | 2.25 | 0.37 | 65.1 |
| 4/14/2015 13:35:58 | 47.24 | 45.04 | 1,182 | 2.31 | 0.37 | 64.7 |
| 4/14/2015 13:35:58 | 47.57 | 45.37 | 1,182 | 2.31 | 0.37 | 64.7 |
| 4/14/2015 13:36:00 | 47.90 | 45.70 | 750 | 3.01 | 0.53 | 41.0 |
| 4/14/2015 13:36:03 | 48.23 | 46.03 | 115 | 3.50 | 0.50 | 6.3 |
| 4/14/2015 13:36:07 | 48.56 | 46.36 | 64 | 4.05 | 0.39 | 3.5 |
| 4/14/2015 13:36:07 | 48.88 | 46.68 | 161 | 4.66 | 0.41 | 8.8 |
| 4/14/2015 13:36:09 | 49.21 | 47.01 | 322 | 3.41 | 0.46 | 17.6 |
| 4/14/2015 13:36:10 | 49.54 | 47.34 | 314 | 3.55 | 0.44 | 17.2 |
| 4/14/2015 13:36:11 | 49.87 | 47.67 | 314 | 4.70 | 0.43 | 17.2 |
| 4/14/2015 13:36:12 | 50.20 | 48.00 | 334 | 3.08 | 0.42 | 18.3 |
| 4/14/2015 13:36:13 | 50.53 | 48.33 | 381 | 3.73 | 0.40 | 20.8 |
| 4/14/2015 13:36:13 | 50.85 | 48.65 | 422 | 3.18 | 0.43 | 23.1 |
| 4/14/2015 13:36:14 | 51.18 | 48.98 | 493 | 3.73 | 0.40 | 26.9 |
| 4/14/2015 13:36:15 | 51.51 | 49.31 | 506 | 3.71 | 0.41 | 27.7 |
| 4/14/2015 13:36:16 | 51.84 | 49.64 | 468 | 3.62 | 0.45 | 25.6 |
| 4/14/2015 13:36:17 | 52.17 | 49.97 | 426 | 3.35 | 0.44 | 23.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/14/2015 | 13:36:18 | 52.49 | 50.29 | 324 | 3.91 | 0.44 | 17.7 |
| 4/14/2015 | 13:36:45 | 52.82 | 50.62 | 85 | 3.88 | 0.39 | 4.7 |
| 4/14/2015 | 13:37:11 | 53.15 | 50.95 | 0 | 3.36 | 0.37 | 0.0 |
| 4/14/2015 | 13:37:13 | 53.48 | 51.28 | 142 | 4.29 | 0.39 | 7.7 |
| 4/14/2015 | 13:37:14 | 53.81 | 51.61 | 224 | 3.56 | 0.43 | 12.3 |
| 4/14/2015 | 13:37:15 | 54.13 | 51.93 | 301 | 4.23 | 0.40 | 16.5 |
| 4/14/2015 | 13:37:16 | 54.46 | 52.26 | 388 | 3.90 | 0.40 | 21.2 |
| 4/14/2015 | 13:37:17 | 54.79 | 52.59 | 299 | 5.06 | 0.41 | 16.3 |
| 4/14/2015 | 13:37:23 | 55.12 | 52.92 | 0 | 3.65 | 0.40 | 0.0 |
| 4/14/2015 | 13:37:25 | 55.45 | 53.25 | 126 | 4.49 | 0.40 | 6.9 |
| 4/14/2015 | 13:37:26 | 55.77 | 53.57 | 215 | 3.92 | 0.28 | 11.7 |
| 4/14/2015 | 13:37:26 | 56.10 | 53.90 | 266 | 3.31 | 0.31 | 14.5 |
| 4/14/2015 | 13:37:27 | 56.43 | 54.23 | 381 | 2.97 | 0.40 | 20.8 |
| 4/14/2015 | 13:37:29 | 56.76 | 54.56 | 350 | 4.54 | 0.45 | 19.2 |
| 4/14/2015 | 13:37:35 | 57.09 | 54.89 | 83 | 4.80 | 0.39 | 4.6 |
| 4/14/2015 | 13:37:41 | 57.41 | 55.21 | 103 | 3.69 | 0.41 | 5.6 |
| 4/14/2015 | 13:37:43 | 57.74 | 55.54 | 254 | 4.95 | 0.38 | 13.9 |
| 4/14/2015 | 13:37:46 | 57.95 | 55.75 | 79 | 6.30 | 0.38 | 4.3 |

## KCB-325-8 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/14/2015 13:31:29

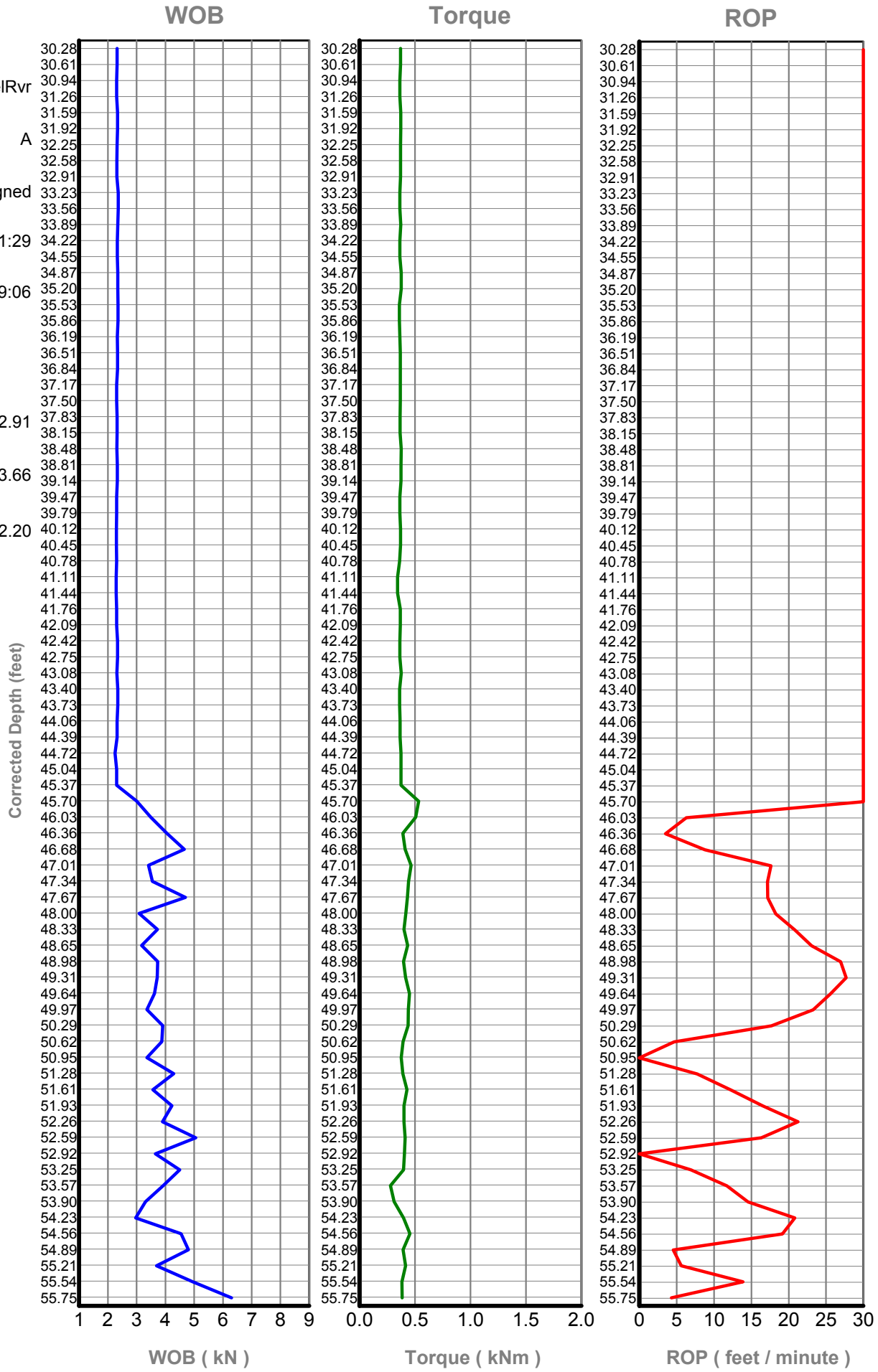
**End Date:**
4/14/2015 13:39:06

**Operator Note:**
'2.2 3 a Auto Complete'

**Northing:**
362,102.91

**Easting:**
245,613.66

**Tide (feet):**
2.20



## Hole: KCB-325-9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/15/2015 11:32:48 | 35.11 | 30.11 | 454 | 1.93 | 0.29 | 24.8 |
| 4/15/2015 11:32:49 | 35.43 | 30.43 | 454 | 1.93 | 0.29 | 24.8 |
| 4/15/2015 11:32:50 | 35.76 | 30.76 | 457 | 1.93 | 0.30 | 25.0 |
| 4/15/2015 11:32:50 | 36.09 | 31.09 | 454 | 1.94 | 0.30 | 24.8 |
| 4/15/2015 11:32:52 | 36.42 | 31.42 | 454 | 1.94 | 0.29 | 24.8 |
| 4/15/2015 11:32:52 | 36.75 | 31.75 | 457 | 1.95 | 0.29 | 25.0 |
| 4/15/2015 11:32:53 | 37.07 | 32.07 | 440 | 1.95 | 0.33 | 24.0 |
| 4/15/2015 11:32:54 | 37.40 | 32.40 | 448 | 1.95 | 0.29 | 24.5 |
| 4/15/2015 11:32:55 | 37.73 | 32.73 | 451 | 1.95 | 0.29 | 24.7 |
| 4/15/2015 11:32:55 | 38.06 | 33.06 | 448 | 1.95 | 0.30 | 24.5 |
| 4/15/2015 11:32:56 | 38.39 | 33.39 | 457 | 1.94 | 0.29 | 25.0 |
| 4/15/2015 11:32:57 | 38.71 | 33.71 | 442 | 1.95 | 0.29 | 24.2 |
| 4/15/2015 11:32:58 | 39.04 | 34.04 | 451 | 1.94 | 0.29 | 24.6 |
| 4/15/2015 11:33:20 | 39.37 | 34.37 | 44 | 1.74 | 0.30 | 2.4 |
| 4/15/2015 11:33:20 | 39.70 | 34.70 | 136 | 2.12 | 0.30 | 7.4 |
| 4/15/2015 11:33:22 | 40.03 | 35.03 | 321 | 2.12 | 0.30 | 17.6 |
| 4/15/2015 11:33:22 | 40.35 | 35.35 | 410 | 2.12 | 0.82 | 22.4 |
| 4/15/2015 11:33:23 | 40.68 | 35.68 | 410 | 1.82 | 0.84 | 22.4 |
| 4/15/2015 11:33:24 | 41.01 | 36.01 | 469 | 2.00 | 0.85 | 25.6 |
| 4/15/2015 11:33:24 | 41.34 | 36.34 | 469 | 2.10 | 0.85 | 25.6 |
| 4/15/2015 11:33:25 | 41.67 | 36.67 | 477 | 2.06 | 0.85 | 26.1 |
| 4/15/2015 11:33:26 | 41.99 | 36.99 | 471 | 2.14 | 0.85 | 25.8 |
| 4/15/2015 11:33:27 | 42.32 | 37.32 | 468 | 2.10 | 0.85 | 25.6 |
| 4/15/2015 11:33:27 | 42.65 | 37.65 | 471 | 2.09 | 0.85 | 25.8 |
| 4/15/2015 11:33:28 | 42.98 | 37.98 | 471 | 1.80 | 0.85 | 25.8 |
| 4/15/2015 11:33:29 | 43.31 | 38.31 | 474 | 2.05 | 0.85 | 25.9 |
| 4/15/2015 11:33:30 | 43.64 | 38.64 | 471 | 1.70 | 0.85 | 25.8 |
| 4/15/2015 11:33:30 | 43.96 | 38.96 | 471 | 1.98 | 0.85 | 25.8 |
| 4/15/2015 11:33:31 | 44.29 | 39.29 | 471 | 1.86 | 0.85 | 25.8 |
| 4/15/2015 11:33:32 | 44.62 | 39.62 | 466 | 2.06 | 0.87 | 25.5 |
| 4/15/2015 11:33:32 | 44.95 | 39.95 | 466 | 2.01 | 0.87 | 25.5 |
| 4/15/2015 11:33:34 | 45.28 | 40.28 | 469 | 2.11 | 0.85 | 25.6 |
| 4/15/2015 11:33:34 | 45.60 | 40.60 | 472 | 2.00 | 0.86 | 25.8 |
| 4/15/2015 11:33:35 | 45.93 | 40.93 | 477 | 1.97 | 0.85 | 26.1 |
| 4/15/2015 11:33:36 | 46.26 | 41.26 | 469 | 1.85 | 0.86 | 25.6 |
| 4/15/2015 11:33:37 | 46.59 | 41.59 | 468 | 2.11 | 0.85 | 25.6 |
| 4/15/2015 11:33:37 | 46.92 | 41.92 | 465 | 1.85 | 0.91 | 25.5 |
| 4/15/2015 11:33:38 | 47.24 | 42.24 | 469 | 2.04 | 0.85 | 25.6 |
| 4/15/2015 11:33:39 | 47.57 | 42.57 | 466 | 1.81 | 0.90 | 25.5 |
| 4/15/2015 11:33:40 | 47.90 | 42.90 | 460 | 1.83 | 0.98 | 25.2 |
| 4/15/2015 11:33:40 | 48.23 | 43.23 | 466 | 1.91 | 1.04 | 25.5 |
| 4/15/2015 11:33:41 | 48.56 | 43.56 | 425 | 1.99 | 1.22 | 23.2 |
| 4/15/2015 11:33:48 | 48.88 | 43.88 | 28 | 2.02 | 1.16 | 1.5 |
| 4/15/2015 11:33:51 | 49.21 | 44.21 | 69 | 2.03 | 1.21 | 3.8 |
| 4/15/2015 11:33:52 | 49.54 | 44.54 | 217 | 2.03 | 1.11 | 11.8 |
| 4/15/2015 11:33:53 | 49.87 | 44.87 | 297 | 2.03 | 1.20 | 16.2 |
| 4/15/2015 11:33:54 | 50.20 | 45.20 | 387 | 2.01 | 1.19 | 21.2 |
| 4/15/2015 11:34:12 | 50.53 | 45.53 | 17 | 1.89 | 1.42 | 0.9 |
| 4/15/2015 11:34:13 | 50.85 | 45.85 | 228 | 2.04 | 1.37 | 12.5 |
| 4/15/2015 11:34:15 | 51.18 | 46.18 | 350 | 1.99 | 1.21 | 19.1 |
| 4/15/2015 11:34:15 | 51.51 | 46.51 | 356 | 2.00 | 1.08 | 19.5 |
| 4/15/2015 11:34:16 | 51.84 | 46.84 | 379 | 1.98 | 1.01 | 20.7 |
| 4/15/2015 11:34:40 | 52.17 | 47.17 | 0 | 1.79 | 0.90 | 0.0 |
| 4/15/2015 11:34:40 | 52.49 | 47.49 | 85 | 1.98 | 1.13 | 4.7 |
| 4/15/2015 11:34:42 | 52.82 | 47.82 | 285 | 2.06 | 1.37 | 15.6 |
| 4/15/2015 11:34:43 | 53.15 | 48.15 | 220 | 2.08 | 1.16 | 12.0 |
| 4/15/2015 11:34:47 | 53.48 | 48.48 | 34 | 1.97 | 1.16 | 1.8 |
| 4/15/2015 11:34:48 | 53.81 | 48.81 | 187 | 2.07 | 1.10 | 10.2 |
| 4/15/2015 11:34:49 | 54.13 | 49.13 | 321 | 1.92 | 1.07 | 17.6 |
| 4/15/2015 11:34:50 | 54.46 | 49.46 | 376 | 2.18 | 1.18 | 20.6 |
| 4/15/2015 11:34:51 | 54.79 | 49.79 | 385 | 1.95 | 1.10 | 21.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/15/2015 | 11:34:52 | 55.12 | 50.12 | 419 | 1.96 | 1.38 | 22.9 |
| 4/15/2015 | 11:34:52 | 55.45 | 50.45 | 411 | 2.17 | 1.09 | 22.5 |
| 4/15/2015 | 11:34:53 | 55.77 | 50.77 | 408 | 1.90 | 1.08 | 22.3 |
| 4/15/2015 | 11:34:54 | 56.10 | 51.10 | 416 | 1.87 | 1.08 | 22.8 |
| 4/15/2015 | 11:34:55 | 56.43 | 51.43 | 428 | 1.87 | 1.09 | 23.4 |
| 4/15/2015 | 11:34:56 | 56.76 | 51.76 | 436 | 1.93 | 1.26 | 23.9 |
| 4/15/2015 | 11:34:57 | 57.09 | 52.09 | 428 | 2.08 | 1.14 | 23.4 |
| 4/15/2015 | 11:34:58 | 57.41 | 52.41 | 419 | 2.14 | 1.12 | 22.9 |
| 4/15/2015 | 11:34:59 | 57.74 | 52.74 | 408 | 2.04 | 1.16 | 22.3 |
| 4/15/2015 | 11:34:59 | 58.07 | 53.07 | 414 | 1.92 | 1.05 | 22.6 |
| 4/15/2015 | 11:35:00 | 58.40 | 53.40 | 413 | 2.00 | 1.20 | 22.6 |
| 4/15/2015 | 11:35:01 | 58.73 | 53.73 | 413 | 1.98 | 1.12 | 22.6 |
| 4/15/2015 | 11:35:02 | 59.06 | 54.06 | 399 | 2.12 | 1.16 | 21.8 |
| 4/15/2015 | 11:35:03 | 59.38 | 54.38 | 394 | 2.16 | 1.18 | 21.5 |
| 4/15/2015 | 11:35:04 | 59.71 | 54.71 | 383 | 2.08 | 1.23 | 20.9 |
| 4/15/2015 | 11:35:05 | 60.04 | 55.04 | 373 | 2.06 | 1.31 | 20.4 |
| 4/15/2015 | 11:35:06 | 60.37 | 55.37 | 356 | 2.11 | 1.12 | 19.5 |
| 4/15/2015 | 11:35:08 | 60.48 | 55.48 | 286 | 2.11 | 1.06 | 15.6 |

## KCB-325-9 - Summary

**Pattern Number:**
AreaK_CB325-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/15/2015 11:30:19

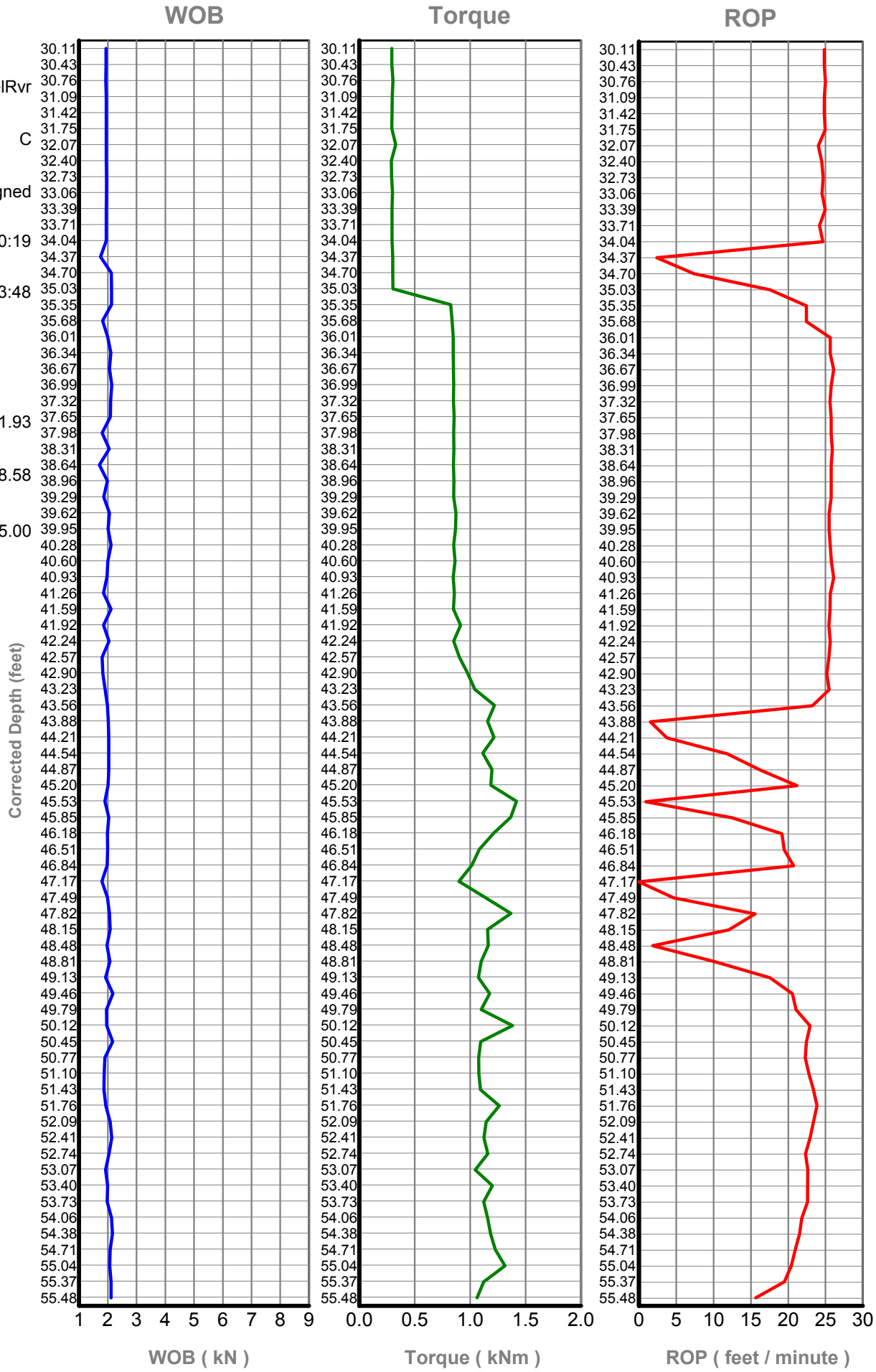
**End Date:**
4/15/2015 11:43:48

**Operator Note:**
'5 5.4 c Auto Complete'

**Northing:**
362,091.93

**Easting:**
245,618.58

**Tide (feet):**
5.00



## Hole: L1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:29:24 | 35.43 | 30.23 | 865 | 1.20 | 0.17 | 47.3 |
| 5/1/2015 13:29:24 | 35.76 | 30.56 | 873 | 1.19 | 0.17 | 47.7 |
| 5/1/2015 13:29:25 | 36.09 | 30.89 | 870 | 0.97 | 0.17 | 47.6 |
| 5/1/2015 13:29:25 | 36.42 | 31.22 | 870 | 0.97 | 0.17 | 47.6 |
| 5/1/2015 13:29:25 | 36.75 | 31.55 | 870 | 1.21 | 0.17 | 47.6 |
| 5/1/2015 13:29:26 | 37.07 | 31.87 | 865 | 1.20 | 0.17 | 47.3 |
| 5/1/2015 13:29:26 | 37.40 | 32.20 | 873 | 1.24 | 0.17 | 47.8 |
| 5/1/2015 13:29:27 | 37.73 | 32.53 | 873 | 1.21 | 0.18 | 47.8 |
| 5/1/2015 13:29:27 | 38.06 | 32.86 | 873 | 1.21 | 0.18 | 47.8 |
| 5/1/2015 13:29:27 | 38.39 | 33.19 | 864 | 1.20 | 0.17 | 47.2 |
| 5/1/2015 13:29:28 | 38.71 | 33.51 | 872 | 1.19 | 0.17 | 47.7 |
| 5/1/2015 13:29:28 | 39.04 | 33.84 | 886 | 1.20 | 0.17 | 48.4 |
| 5/1/2015 13:29:29 | 39.37 | 34.17 | 877 | 1.21 | 0.17 | 48.0 |
| 5/1/2015 13:29:29 | 39.70 | 34.50 | 877 | 1.21 | 0.17 | 48.0 |
| 5/1/2015 13:29:29 | 40.03 | 34.83 | 874 | 1.21 | 0.17 | 47.8 |
| 5/1/2015 13:29:30 | 40.35 | 35.15 | 884 | 1.21 | 0.17 | 48.3 |
| 5/1/2015 13:29:30 | 40.68 | 35.48 | 875 | 1.19 | 0.17 | 47.9 |
| 5/1/2015 13:29:31 | 41.01 | 35.81 | 875 | 1.19 | 0.17 | 47.9 |
| 5/1/2015 13:29:31 | 41.34 | 36.14 | 867 | 1.19 | 0.17 | 47.4 |
| 5/1/2015 13:29:31 | 41.67 | 36.47 | 869 | 1.21 | 0.17 | 47.5 |
| 5/1/2015 13:29:32 | 41.99 | 36.79 | 864 | 1.19 | 0.17 | 47.3 |
| 5/1/2015 13:29:33 | 42.32 | 37.12 | 867 | 1.22 | 0.17 | 47.4 |
| 5/1/2015 13:29:33 | 42.65 | 37.45 | 867 | 1.22 | 0.17 | 47.4 |
| 5/1/2015 13:29:33 | 42.98 | 37.78 | 862 | 1.19 | 0.17 | 47.1 |
| 5/1/2015 13:29:34 | 43.31 | 38.11 | 864 | 1.21 | 0.17 | 47.3 |
| 5/1/2015 13:29:34 | 43.64 | 38.44 | 862 | 1.20 | 0.17 | 47.1 |
| 5/1/2015 13:29:35 | 43.96 | 38.76 | 870 | 1.21 | 0.17 | 47.6 |
| 5/1/2015 13:29:35 | 44.29 | 39.09 | 870 | 1.21 | 0.17 | 47.6 |
| 5/1/2015 13:29:35 | 44.62 | 39.42 | 867 | 1.20 | 0.17 | 47.4 |
| 5/1/2015 13:29:36 | 44.95 | 39.75 | 864 | 1.21 | 0.17 | 47.3 |
| 5/1/2015 13:29:36 | 45.28 | 40.08 | 867 | 1.21 | 0.17 | 47.4 |
| 5/1/2015 13:29:37 | 45.60 | 40.40 | 867 | 1.21 | 0.17 | 47.4 |
| 5/1/2015 13:29:37 | 45.93 | 40.73 | 867 | 1.21 | 0.17 | 47.4 |
| 5/1/2015 13:29:37 | 46.26 | 41.06 | 859 | 1.20 | 0.17 | 47.0 |
| 5/1/2015 13:29:38 | 46.59 | 41.39 | 861 | 1.20 | 0.17 | 47.1 |
| 5/1/2015 13:29:38 | 46.92 | 41.72 | 842 | 1.21 | 0.17 | 46.1 |
| 5/1/2015 13:29:39 | 47.24 | 42.04 | 842 | 1.21 | 0.16 | 46.1 |
| 5/1/2015 13:29:39 | 47.57 | 42.37 | 842 | 1.21 | 0.16 | 46.1 |
| 5/1/2015 13:29:39 | 47.90 | 42.70 | 852 | 1.20 | 0.17 | 46.6 |
| 5/1/2015 13:29:40 | 48.23 | 43.03 | 849 | 1.21 | 0.17 | 46.4 |
| 5/1/2015 13:29:40 | 48.56 | 43.36 | 855 | 1.20 | 0.17 | 46.7 |
| 5/1/2015 13:29:41 | 48.88 | 43.68 | 855 | 1.20 | 0.17 | 46.7 |
| 5/1/2015 13:29:41 | 49.21 | 44.01 | 855 | 1.20 | 0.17 | 46.7 |
| 5/1/2015 13:29:41 | 49.54 | 44.34 | 879 | 1.20 | 0.17 | 48.1 |
| 5/1/2015 13:29:42 | 49.87 | 44.67 | 861 | 1.21 | 0.17 | 47.1 |
| 5/1/2015 13:29:42 | 50.20 | 45.00 | 864 | 1.21 | 0.17 | 47.3 |
| 5/1/2015 13:29:43 | 50.53 | 45.33 | 856 | 1.26 | 0.17 | 46.8 |
| 5/1/2015 13:29:44 | 50.85 | 45.65 | 856 | 1.26 | 0.17 | 46.8 |
| 5/1/2015 13:29:44 | 51.18 | 45.98 | 859 | 1.21 | 0.17 | 46.9 |
| 5/1/2015 13:29:44 | 51.51 | 46.31 | 856 | 1.23 | 0.17 | 46.8 |
| 5/1/2015 13:29:45 | 51.84 | 46.64 | 853 | 1.23 | 0.17 | 46.6 |
| 5/1/2015 13:29:45 | 52.17 | 46.97 | 843 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 13:29:46 | 52.49 | 47.29 | 843 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 13:29:46 | 52.82 | 47.62 | 844 | 1.22 | 0.17 | 46.1 |
| 5/1/2015 13:29:46 | 53.15 | 47.95 | 827 | 1.24 | 0.17 | 45.2 |
| 5/1/2015 13:29:47 | 53.48 | 48.28 | 816 | 1.29 | 0.17 | 44.6 |
| 5/1/2015 13:29:57 | 53.81 | 48.61 | 9 | 1.13 | 1.36 | 0.5 |
| 5/1/2015 13:29:58 | 54.13 | 48.93 | 101 | 1.07 | 1.31 | 5.5 |
| 5/1/2015 13:30:00 | 54.46 | 49.26 | 257 | 0.49 | 1.07 | 14.0 |
| 5/1/2015 13:30:06 | 54.79 | 49.59 | 3 | 1.08 | 1.68 | 0.2 |
| 5/1/2015 13:30:08 | 55.12 | 49.92 | 156 | 1.66 | 0.78 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:30:10 | 55.45 | 50.25 | 136 | 1.13 | 1.34 | 7.4 |
| 5/1/2015 | 13:30:12 | 55.77 | 50.57 | 141 | 1.16 | 1.43 | 7.7 |
| 5/1/2015 | 13:30:14 | 56.10 | 50.90 | 165 | 1.19 | 1.16 | 9.0 |
| 5/1/2015 | 13:30:16 | 56.43 | 51.23 | 206 | 1.19 | 1.12 | 11.3 |
| 5/1/2015 | 13:30:18 | 56.76 | 51.56 | 168 | 1.02 | 1.69 | 9.2 |
| 5/1/2015 | 13:30:19 | 57.09 | 51.89 | 207 | 1.13 | 1.06 | 11.3 |
| 5/1/2015 | 13:30:21 | 57.41 | 52.21 | 216 | 1.27 | 1.05 | 11.8 |
| 5/1/2015 | 13:30:23 | 57.74 | 52.54 | 201 | 1.21 | 1.18 | 11.0 |
| 5/1/2015 | 13:30:24 | 58.07 | 52.87 | 234 | 0.46 | 0.84 | 12.8 |
| 5/1/2015 | 13:30:26 | 58.40 | 53.20 | 178 | 1.93 | 0.96 | 9.8 |
| 5/1/2015 | 13:30:27 | 58.73 | 53.53 | 272 | 1.07 | 1.10 | 14.9 |
| 5/1/2015 | 13:30:30 | 59.06 | 53.86 | 140 | 1.15 | 0.93 | 7.6 |
| 5/1/2015 | 13:30:30 | 59.38 | 54.18 | 148 | 1.22 | 0.93 | 8.1 |
| 5/1/2015 | 13:30:32 | 59.71 | 54.51 | 295 | 1.91 | 1.01 | 16.1 |
| 5/1/2015 | 13:30:32 | 60.04 | 54.84 | 409 | 1.50 | 0.82 | 22.4 |
| 5/1/2015 | 13:30:33 | 60.37 | 55.17 | 323 | 1.77 | 0.98 | 17.7 |
| 5/1/2015 | 13:30:34 | 60.52 | 55.32 | 343 | 0.35 | 1.02 | 18.8 |

## L1 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:27:44

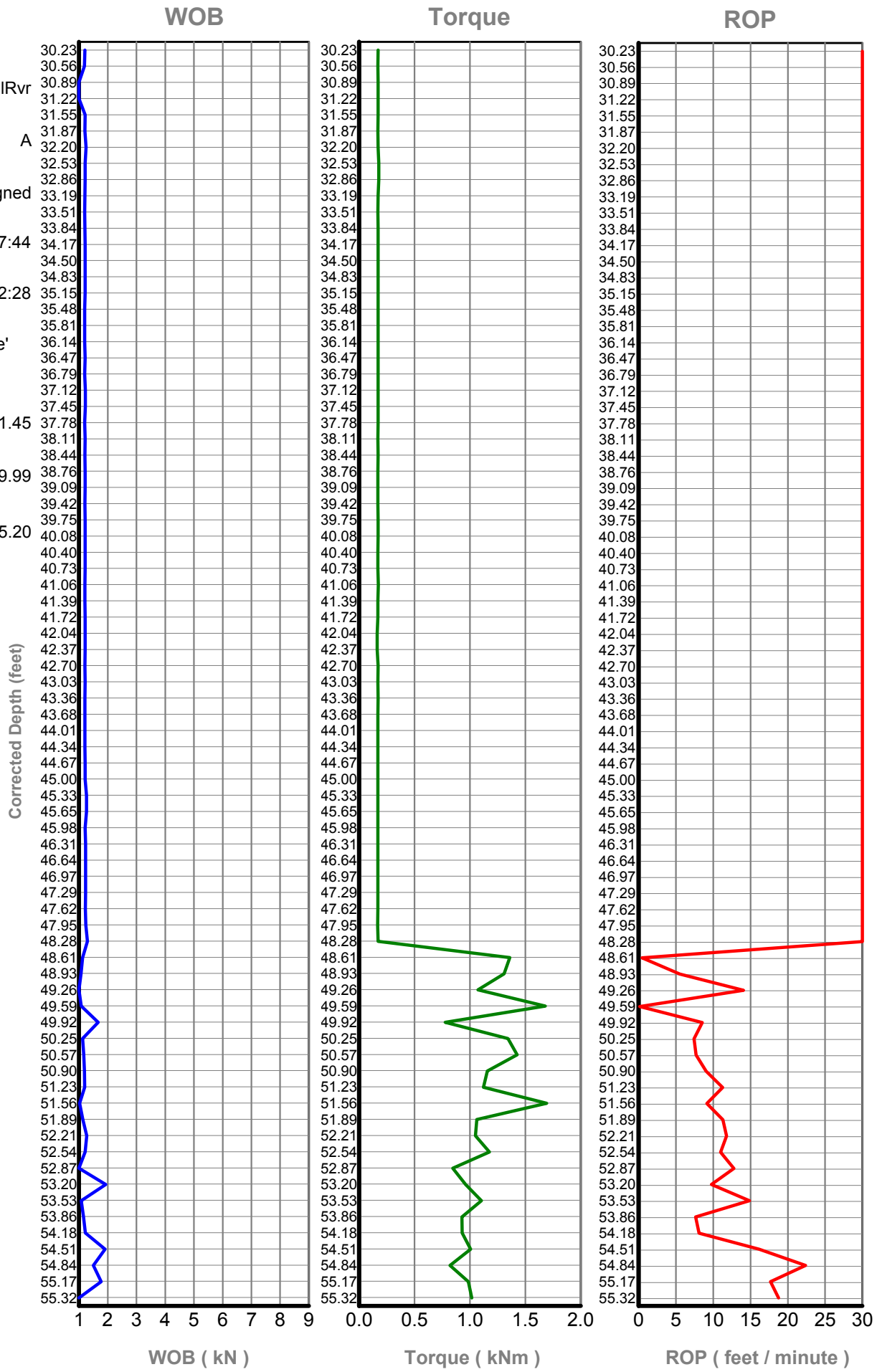
**End Date:**
5/1/2015 13:32:28

**Operator Note:**
'5.2 5.4 a Auto Complete'

**Northing:**
360,001.45

**Easting:**
241,869.99

**Tide (feet):**
5.20



## Hole: L10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:10:31 | 34.45 | 30.15 | 1,122 | 1.69 | 0.24 | 61.3 |
| 5/1/2015 2:10:31 | 34.78 | 30.48 | 1,125 | 1.67 | 0.24 | 61.5 |
| 5/1/2015 2:10:31 | 35.11 | 30.81 | 1,125 | 1.66 | 0.23 | 61.5 |
| 5/1/2015 2:10:32 | 35.43 | 31.13 | 1,125 | 1.66 | 0.23 | 61.5 |
| 5/1/2015 2:10:32 | 35.76 | 31.46 | 1,139 | 1.68 | 0.23 | 62.3 |
| 5/1/2015 2:10:32 | 36.09 | 31.79 | 1,139 | 1.68 | 0.23 | 62.3 |
| 5/1/2015 2:10:32 | 36.42 | 32.12 | 1,151 | 1.66 | 0.24 | 62.9 |
| 5/1/2015 2:10:33 | 36.75 | 32.45 | 1,139 | 1.68 | 0.24 | 62.3 |
| 5/1/2015 2:10:33 | 37.07 | 32.77 | 1,139 | 1.68 | 0.24 | 62.3 |
| 5/1/2015 2:10:33 | 37.40 | 33.10 | 1,155 | 1.68 | 0.22 | 63.2 |
| 5/1/2015 2:10:34 | 37.73 | 33.43 | 1,155 | 1.68 | 0.22 | 63.2 |
| 5/1/2015 2:10:34 | 38.06 | 33.76 | 1,155 | 1.68 | 0.24 | 63.2 |
| 5/1/2015 2:10:34 | 38.39 | 34.09 | 1,141 | 1.66 | 0.24 | 62.4 |
| 5/1/2015 2:10:35 | 38.71 | 34.41 | 1,141 | 1.66 | 0.24 | 62.4 |
| 5/1/2015 2:10:35 | 39.04 | 34.74 | 1,160 | 1.68 | 0.24 | 63.4 |
| 5/1/2015 2:10:35 | 39.37 | 35.07 | 1,160 | 1.68 | 0.24 | 63.4 |
| 5/1/2015 2:10:35 | 39.70 | 35.40 | 1,160 | 1.68 | 0.24 | 63.4 |
| 5/1/2015 2:10:36 | 40.03 | 35.73 | 1,160 | 1.68 | 0.24 | 63.4 |
| 5/1/2015 2:10:36 | 40.35 | 36.05 | 1,154 | 1.66 | 0.23 | 63.1 |
| 5/1/2015 2:10:36 | 40.68 | 36.38 | 1,147 | 1.68 | 0.23 | 62.7 |
| 5/1/2015 2:10:37 | 41.01 | 36.71 | 1,147 | 1.68 | 0.23 | 62.7 |
| 5/1/2015 2:10:37 | 41.34 | 37.04 | 1,144 | 1.68 | 0.24 | 62.6 |
| 5/1/2015 2:10:38 | 41.67 | 37.37 | 1,144 | 1.68 | 0.24 | 62.6 |
| 5/1/2015 2:10:38 | 41.99 | 37.69 | 1,151 | 1.68 | 0.23 | 62.9 |
| 5/1/2015 2:10:38 | 42.32 | 38.02 | 1,138 | 1.67 | 0.24 | 62.2 |
| 5/1/2015 2:10:39 | 42.65 | 38.35 | 1,138 | 1.67 | 0.24 | 62.2 |
| 5/1/2015 2:10:39 | 42.98 | 38.68 | 1,125 | 1.69 | 0.23 | 61.5 |
| 5/1/2015 2:10:39 | 43.31 | 39.01 | 1,125 | 1.69 | 0.23 | 61.5 |
| 5/1/2015 2:10:39 | 43.64 | 39.34 | 1,143 | 1.66 | 0.23 | 62.5 |
| 5/1/2015 2:10:40 | 43.96 | 39.66 | 1,143 | 1.68 | 0.24 | 62.5 |
| 5/1/2015 2:10:40 | 44.29 | 39.99 | 1,143 | 1.68 | 0.24 | 62.5 |
| 5/1/2015 2:10:40 | 44.62 | 40.32 | 1,143 | 1.68 | 0.23 | 62.5 |
| 5/1/2015 2:10:41 | 44.95 | 40.65 | 1,122 | 1.68 | 0.23 | 61.4 |
| 5/1/2015 2:10:41 | 45.28 | 40.98 | 1,122 | 1.68 | 0.23 | 61.4 |
| 5/1/2015 2:10:41 | 45.60 | 41.30 | 1,122 | 1.67 | 0.30 | 61.4 |
| 5/1/2015 2:10:42 | 45.93 | 41.63 | 1,122 | 1.67 | 0.30 | 61.4 |
| 5/1/2015 2:10:42 | 46.26 | 41.96 | 1,147 | 1.66 | 0.23 | 62.7 |
| 5/1/2015 2:10:42 | 46.59 | 42.29 | 1,127 | 1.66 | 0.23 | 61.6 |
| 5/1/2015 2:10:43 | 46.92 | 42.62 | 1,127 | 1.66 | 0.23 | 61.6 |
| 5/1/2015 2:10:43 | 47.24 | 42.94 | 1,127 | 1.68 | 0.23 | 61.6 |
| 5/1/2015 2:10:43 | 47.57 | 43.27 | 1,127 | 1.68 | 0.23 | 61.6 |
| 5/1/2015 2:10:43 | 47.90 | 43.60 | 1,127 | 1.66 | 0.23 | 61.6 |
| 5/1/2015 2:10:44 | 48.23 | 43.93 | 1,145 | 1.68 | 0.23 | 62.6 |
| 5/1/2015 2:10:44 | 48.56 | 44.26 | 1,145 | 1.68 | 0.23 | 62.6 |
| 5/1/2015 2:10:44 | 48.88 | 44.58 | 1,123 | 1.68 | 0.23 | 61.4 |
| 5/1/2015 2:10:45 | 49.21 | 44.91 | 1,123 | 1.68 | 0.23 | 61.4 |
| 5/1/2015 2:10:45 | 49.54 | 45.24 | 1,137 | 1.66 | 0.23 | 62.2 |
| 5/1/2015 2:10:45 | 49.87 | 45.57 | 1,140 | 1.67 | 0.23 | 62.3 |
| 5/1/2015 2:10:46 | 50.20 | 45.90 | 1,140 | 1.67 | 0.23 | 62.3 |
| 5/1/2015 2:10:46 | 50.53 | 46.23 | 1,137 | 1.66 | 0.23 | 62.2 |
| 5/1/2015 2:10:46 | 50.85 | 46.55 | 1,137 | 1.66 | 0.23 | 62.2 |
| 5/1/2015 2:11:10 | 51.18 | 46.88 | 20 | 1.11 | 1.11 | 1.1 |
| 5/1/2015 2:11:16 | 51.51 | 47.21 | 61 | 1.07 | 1.03 | 3.3 |
| 5/1/2015 2:11:18 | 51.84 | 47.54 | 155 | 0.99 | 0.80 | 8.5 |
| 5/1/2015 2:11:19 | 52.17 | 47.87 | 269 | 1.16 | 1.05 | 14.7 |
| 5/1/2015 2:11:31 | 52.49 | 48.19 | 8 | 1.83 | 1.59 | 0.4 |
| 5/1/2015 2:11:33 | 52.82 | 48.52 | 132 | 1.09 | 1.55 | 7.2 |
| 5/1/2015 2:11:37 | 53.15 | 48.85 | 78 | 1.07 | 1.25 | 4.3 |
| 5/1/2015 2:11:39 | 53.48 | 49.18 | 183 | 1.13 | 1.20 | 10.0 |
| 5/1/2015 2:11:42 | 53.81 | 49.51 | 147 | 1.05 | 1.32 | 8.0 |
| 5/1/2015 2:11:45 | 54.13 | 49.83 | 76 | 1.14 | 1.10 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:11:52 | 54.46 | 50.16 | 61 | 1.12 | 0.93 | 3.3 |
| 5/1/2015 | 2:11:59 | 54.79 | 50.49 | 48 | 1.09 | 0.99 | 2.6 |
| 5/1/2015 | 2:12:05 | 55.12 | 50.82 | 58 | 1.11 | 1.02 | 3.2 |
| 5/1/2015 | 2:12:10 | 55.35 | 51.05 | 41 | 1.07 | 1.02 | 2.3 |

## L10 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:08:39

**End Date:**
5/1/2015 2:29:58

**Operator Note:**
'4.3 4.6 a Auto Complete'

**Northing:**
360,355.74

**Easting:**
242,436.37

**Tide (feet):**
4.30



## Hole: L100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:04:10 | 31.17 | 30.07 | 1,128 | 1.74 | 0.24 | 61.7 |
| 5/1/2015 6:04:11 | 31.50 | 30.40 | 1,128 | 1.74 | 0.24 | 61.7 |
| 5/1/2015 6:04:11 | 31.82 | 30.72 | 1,126 | 1.75 | 0.24 | 61.5 |
| 5/1/2015 6:04:11 | 32.15 | 31.05 | 1,126 | 1.75 | 0.24 | 61.5 |
| 5/1/2015 6:04:11 | 32.48 | 31.38 | 1,142 | 1.76 | 0.24 | 62.4 |
| 5/1/2015 6:04:12 | 32.81 | 31.71 | 1,125 | 1.75 | 0.24 | 61.5 |
| 5/1/2015 6:04:12 | 33.14 | 32.04 | 1,125 | 1.75 | 0.24 | 61.5 |
| 5/1/2015 6:04:12 | 33.46 | 32.36 | 1,125 | 1.73 | 0.24 | 61.5 |
| 5/1/2015 6:04:13 | 33.79 | 32.69 | 1,125 | 1.73 | 0.24 | 61.5 |
| 5/1/2015 6:04:13 | 34.12 | 33.02 | 1,118 | 1.74 | 0.24 | 61.1 |
| 5/1/2015 6:04:13 | 34.45 | 33.35 | 1,130 | 1.73 | 0.24 | 61.8 |
| 5/1/2015 6:04:14 | 34.78 | 33.68 | 1,130 | 1.73 | 0.24 | 61.8 |
| 5/1/2015 6:04:14 | 35.11 | 34.01 | 1,118 | 1.75 | 0.24 | 61.1 |
| 5/1/2015 6:04:14 | 35.43 | 34.33 | 1,118 | 1.75 | 0.24 | 61.1 |
| 5/1/2015 6:04:14 | 35.76 | 34.66 | 1,125 | 1.72 | 0.24 | 61.5 |
| 5/1/2015 6:04:15 | 36.09 | 34.99 | 1,125 | 1.74 | 0.24 | 61.5 |
| 5/1/2015 6:04:15 | 36.42 | 35.32 | 1,125 | 1.74 | 0.24 | 61.5 |
| 5/1/2015 6:04:15 | 36.75 | 35.65 | 1,127 | 1.75 | 0.18 | 61.7 |
| 5/1/2015 6:04:16 | 37.07 | 35.97 | 1,122 | 1.73 | 0.24 | 61.3 |
| 5/1/2015 6:04:16 | 37.40 | 36.30 | 1,122 | 1.73 | 0.24 | 61.3 |
| 5/1/2015 6:04:16 | 37.73 | 36.63 | 1,131 | 1.74 | 0.24 | 61.9 |
| 5/1/2015 6:04:17 | 38.06 | 36.96 | 1,131 | 1.74 | 0.24 | 61.9 |
| 5/1/2015 6:04:17 | 38.39 | 37.29 | 1,118 | 1.74 | 0.24 | 61.2 |
| 5/1/2015 6:04:17 | 38.71 | 37.61 | 1,131 | 1.75 | 0.24 | 61.8 |
| 5/1/2015 6:04:18 | 39.04 | 37.94 | 1,131 | 1.75 | 0.24 | 61.8 |
| 5/1/2015 6:04:18 | 39.37 | 38.27 | 1,125 | 1.72 | 0.24 | 61.5 |
| 5/1/2015 6:04:18 | 39.70 | 38.60 | 1,125 | 1.72 | 0.24 | 61.5 |
| 5/1/2015 6:04:18 | 40.03 | 38.93 | 1,128 | 1.73 | 0.24 | 61.7 |
| 5/1/2015 6:04:19 | 40.35 | 39.25 | 1,118 | 1.74 | 0.24 | 61.1 |
| 5/1/2015 6:04:20 | 40.68 | 39.58 | 1,118 | 1.74 | 0.24 | 61.1 |
| 5/1/2015 6:04:20 | 41.01 | 39.91 | 1,112 | 1.74 | 0.24 | 60.8 |
| 5/1/2015 6:04:20 | 41.34 | 40.24 | 1,112 | 1.74 | 0.24 | 60.8 |
| 5/1/2015 6:04:20 | 41.67 | 40.57 | 1,112 | 1.76 | 0.24 | 60.8 |
| 5/1/2015 6:04:21 | 41.99 | 40.89 | 1,114 | 1.76 | 0.24 | 60.9 |
| 5/1/2015 6:04:21 | 42.32 | 41.22 | 1,114 | 1.76 | 0.24 | 60.9 |
| 5/1/2015 6:04:21 | 42.65 | 41.55 | 1,110 | 1.75 | 0.24 | 60.7 |
| 5/1/2015 6:04:22 | 42.98 | 41.88 | 1,110 | 1.75 | 0.24 | 60.7 |
| 5/1/2015 6:04:22 | 43.31 | 42.21 | 1,110 | 1.72 | 0.24 | 60.7 |
| 5/1/2015 6:04:22 | 43.64 | 42.54 | 1,113 | 1.72 | 0.24 | 60.9 |
| 5/1/2015 6:04:23 | 43.96 | 42.86 | 1,113 | 1.72 | 0.24 | 60.9 |
| 5/1/2015 6:04:23 | 44.29 | 43.19 | 1,129 | 1.74 | 0.24 | 61.7 |
| 5/1/2015 6:04:23 | 44.62 | 43.52 | 1,115 | 1.75 | 0.24 | 61.0 |
| 5/1/2015 6:04:24 | 44.95 | 43.85 | 1,115 | 1.75 | 0.24 | 61.0 |
| 5/1/2015 6:04:24 | 45.28 | 44.18 | 1,128 | 1.75 | 0.24 | 61.7 |
| 5/1/2015 6:04:24 | 45.60 | 44.50 | 1,128 | 1.75 | 0.24 | 61.7 |
| 5/1/2015 6:04:24 | 45.93 | 44.83 | 1,119 | 1.74 | 0.24 | 61.2 |
| 5/1/2015 6:04:25 | 46.26 | 45.16 | 1,122 | 1.76 | 0.24 | 61.4 |
| 5/1/2015 6:04:25 | 46.59 | 45.49 | 1,122 | 1.76 | 0.24 | 61.4 |
| 5/1/2015 6:04:25 | 46.92 | 45.82 | 1,116 | 1.73 | 0.24 | 61.0 |
| 5/1/2015 6:04:26 | 47.24 | 46.14 | 1,116 | 1.73 | 0.24 | 61.0 |
| 5/1/2015 6:04:26 | 47.57 | 46.47 | 1,119 | 1.74 | 0.24 | 61.2 |
| 5/1/2015 6:04:26 | 47.90 | 46.80 | 1,116 | 1.74 | 0.24 | 61.0 |
| 5/1/2015 6:04:27 | 48.23 | 47.13 | 1,116 | 1.74 | 0.24 | 61.0 |
| 5/1/2015 6:04:27 | 48.56 | 47.46 | 1,116 | 1.76 | 0.24 | 61.0 |
| 5/1/2015 6:04:27 | 48.88 | 47.78 | 1,109 | 1.98 | 0.24 | 60.7 |
| 5/1/2015 6:04:28 | 49.21 | 48.11 | 1,109 | 1.98 | 0.24 | 60.7 |
| 5/1/2015 6:04:46 | 49.54 | 48.44 | 71 | 1.15 | 1.22 | 3.9 |
| 5/1/2015 6:04:51 | 49.87 | 48.77 | 71 | 1.66 | 1.43 | 3.9 |
| 5/1/2015 6:04:51 | 50.20 | 49.10 | 127 | 1.35 | 1.12 | 7.0 |
| 5/1/2015 6:04:52 | 50.53 | 49.43 | 256 | 1.42 | 0.87 | 14.0 |
| 5/1/2015 6:04:52 | 50.85 | 49.75 | 379 | 1.51 | 0.86 | 20.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:04:53 | 51.18 | 50.08 | 492 | 1.53 | 0.83 | 26.9 |
| 5/1/2015 | 6:04:53 | 51.51 | 50.41 | 617 | 1.46 | 0.84 | 33.7 |
| 5/1/2015 | 6:04:54 | 51.84 | 50.74 | 688 | 1.30 | 0.85 | 37.6 |
| 5/1/2015 | 6:04:54 | 52.17 | 51.07 | 674 | 1.44 | 0.87 | 36.8 |
| 5/1/2015 | 6:04:55 | 52.49 | 51.39 | 649 | 1.36 | 0.83 | 35.5 |
| 5/1/2015 | 6:04:56 | 52.82 | 51.72 | 625 | 1.47 | 0.88 | 34.2 |
| 5/1/2015 | 6:04:56 | 53.15 | 52.05 | 604 | 1.31 | 0.88 | 33.0 |
| 5/1/2015 | 6:04:57 | 53.48 | 52.38 | 587 | 1.38 | 0.87 | 32.1 |
| 5/1/2015 | 6:04:58 | 53.81 | 52.71 | 552 | 1.45 | 0.91 | 30.2 |
| 5/1/2015 | 6:04:58 | 54.13 | 53.03 | 532 | 1.41 | 0.95 | 29.1 |
| 5/1/2015 | 6:04:59 | 54.46 | 53.36 | 495 | 1.32 | 0.98 | 27.1 |
| 5/1/2015 | 6:05:00 | 54.79 | 53.69 | 486 | 1.43 | 1.03 | 26.6 |
| 5/1/2015 | 6:05:01 | 55.12 | 54.02 | 492 | 1.46 | 1.00 | 26.9 |
| 5/1/2015 | 6:05:01 | 55.45 | 54.35 | 509 | 1.40 | 1.04 | 27.8 |
| 5/1/2015 | 6:05:02 | 55.77 | 54.67 | 532 | 1.52 | 0.99 | 29.1 |
| 5/1/2015 | 6:05:02 | 56.10 | 55.00 | 567 | 1.77 | 1.16 | 31.0 |
| 5/1/2015 | 6:05:07 | 56.36 | 55.26 | 67 | 1.02 | 1.13 | 3.7 |

## L100 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:01:42

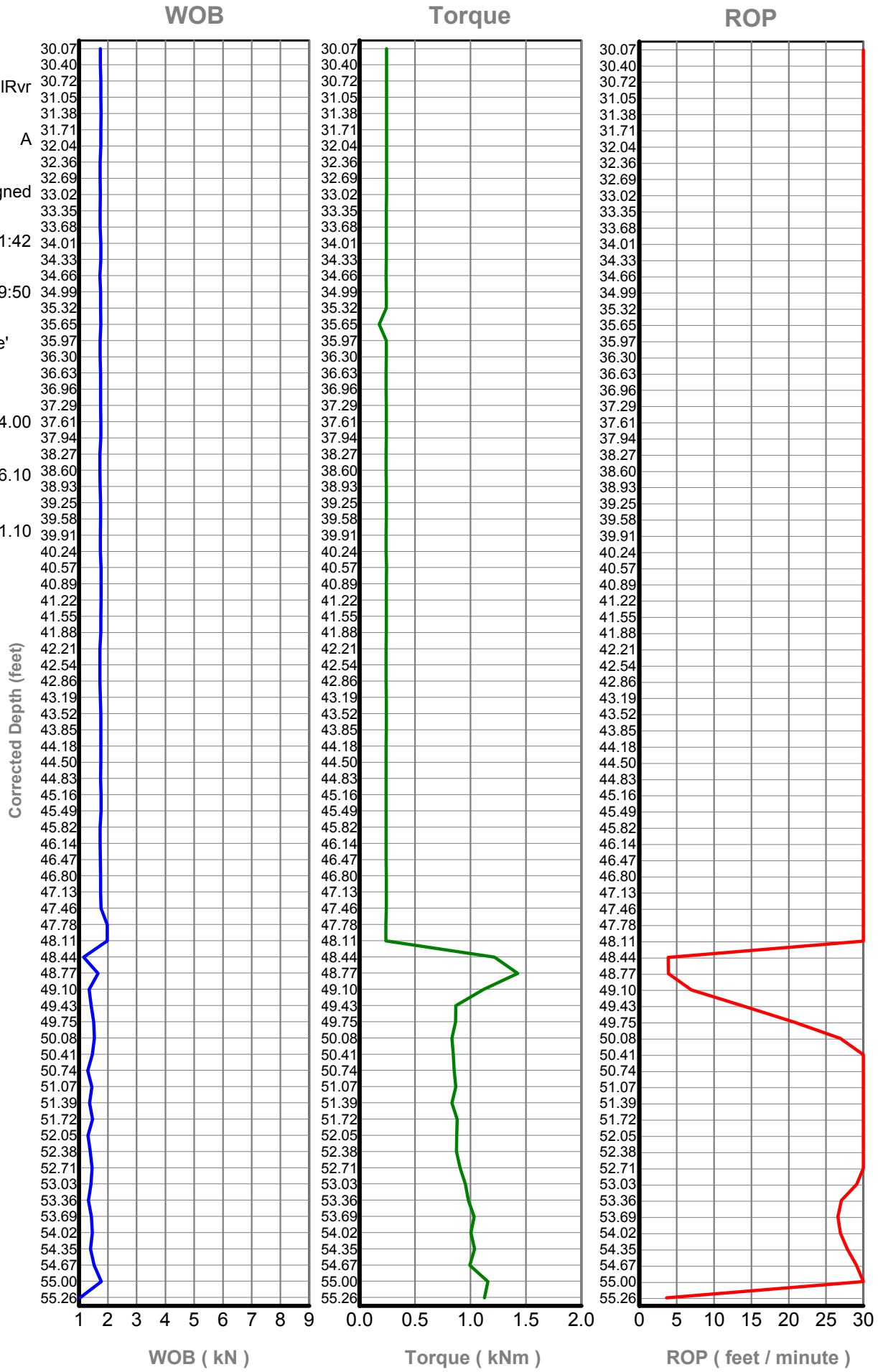
**End Date:**
5/1/2015 6:09:50

**Operator Note:**
'1.1 1.2 a Auto Complete'

**Northing:**
359,804.00

**Easting:**
242,256.10

**Tide (feet):**
1.10



## Hole: I1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:02:57 | 30.84 | 30.24 | 839 | 1.21 | 0.17 | 45.9 |
| 5/1/2015 13:02:58 | 31.17 | 30.57 | 839 | 1.21 | 0.17 | 45.9 |
| 5/1/2015 13:02:58 | 31.50 | 30.90 | 847 | 1.23 | 0.17 | 46.3 |
| 5/1/2015 13:02:59 | 31.82 | 31.22 | 849 | 1.19 | 0.17 | 46.4 |
| 5/1/2015 13:03:00 | 32.15 | 31.55 | 849 | 1.19 | 0.17 | 46.4 |
| 5/1/2015 13:02:59 | 32.48 | 31.88 | 847 | 1.22 | 0.17 | 46.3 |
| 5/1/2015 13:03:00 | 32.81 | 32.21 | 865 | 1.22 | 0.17 | 47.3 |
| 5/1/2015 13:03:01 | 33.14 | 32.54 | 861 | 1.23 | 0.17 | 47.1 |
| 5/1/2015 13:03:01 | 33.46 | 32.86 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 13:03:02 | 33.79 | 33.19 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 13:03:02 | 34.12 | 33.52 | 853 | 1.22 | 0.17 | 46.6 |
| 5/1/2015 13:03:02 | 34.45 | 33.85 | 853 | 1.23 | 0.17 | 46.6 |
| 5/1/2015 13:03:03 | 34.78 | 34.18 | 848 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 13:03:03 | 35.11 | 34.51 | 850 | 1.23 | 0.17 | 46.5 |
| 5/1/2015 13:03:04 | 35.43 | 34.83 | 850 | 1.23 | 0.17 | 46.5 |
| 5/1/2015 13:03:04 | 35.76 | 35.16 | 850 | 1.20 | 0.17 | 46.5 |
| 5/1/2015 13:03:04 | 36.09 | 35.49 | 847 | 1.23 | 0.17 | 46.3 |
| 5/1/2015 13:03:05 | 36.42 | 35.82 | 850 | 1.23 | 0.17 | 46.5 |
| 5/1/2015 13:03:05 | 36.75 | 36.15 | 850 | 1.20 | 0.17 | 46.5 |
| 5/1/2015 13:03:06 | 37.07 | 36.47 | 853 | 1.20 | 0.17 | 46.6 |
| 5/1/2015 13:03:06 | 37.40 | 36.80 | 853 | 1.20 | 0.17 | 46.6 |
| 5/1/2015 13:03:06 | 37.73 | 37.13 | 856 | 1.21 | 0.17 | 46.8 |
| 5/1/2015 13:03:07 | 38.06 | 37.46 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 13:03:07 | 38.39 | 37.79 | 856 | 1.22 | 0.17 | 46.8 |
| 5/1/2015 13:03:08 | 38.71 | 38.11 | 856 | 1.22 | 0.17 | 46.8 |
| 5/1/2015 13:03:08 | 39.04 | 38.44 | 856 | 1.22 | 0.17 | 46.8 |
| 5/1/2015 13:03:08 | 39.37 | 38.77 | 853 | 1.22 | 0.17 | 46.7 |
| 5/1/2015 13:03:09 | 39.70 | 39.10 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 13:03:09 | 40.03 | 39.43 | 858 | 1.27 | 0.17 | 46.9 |
| 5/1/2015 13:03:10 | 40.35 | 39.75 | 853 | 1.23 | 0.17 | 46.6 |
| 5/1/2015 13:03:11 | 40.68 | 40.08 | 853 | 1.23 | 0.17 | 46.6 |
| 5/1/2015 13:03:11 | 41.01 | 40.41 | 853 | 1.20 | 0.17 | 46.6 |
| 5/1/2015 13:03:11 | 41.34 | 40.74 | 852 | 1.24 | 0.17 | 46.6 |
| 5/1/2015 13:03:12 | 41.67 | 41.07 | 847 | 1.20 | 0.17 | 46.3 |
| 5/1/2015 13:03:12 | 41.99 | 41.39 | 842 | 1.22 | 0.17 | 46.0 |
| 5/1/2015 13:03:13 | 42.32 | 41.72 | 842 | 1.22 | 0.17 | 46.0 |
| 5/1/2015 13:03:13 | 42.65 | 42.05 | 847 | 1.20 | 0.17 | 46.3 |
| 5/1/2015 13:03:13 | 42.98 | 42.38 | 844 | 1.22 | 0.17 | 46.2 |
| 5/1/2015 13:03:14 | 43.31 | 42.71 | 847 | 1.22 | 0.17 | 46.3 |
| 5/1/2015 13:03:14 | 43.64 | 43.04 | 850 | 1.21 | 0.17 | 46.5 |
| 5/1/2015 13:03:15 | 43.96 | 43.36 | 850 | 1.21 | 0.17 | 46.5 |
| 5/1/2015 13:03:15 | 44.29 | 43.69 | 850 | 1.22 | 0.17 | 46.5 |
| 5/1/2015 13:03:15 | 44.62 | 44.02 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 13:03:16 | 44.95 | 44.35 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 13:03:16 | 45.28 | 44.68 | 842 | 1.22 | 0.17 | 46.0 |
| 5/1/2015 13:03:17 | 45.60 | 45.00 | 842 | 1.22 | 0.17 | 46.0 |
| 5/1/2015 13:03:17 | 45.93 | 45.33 | 847 | 1.23 | 0.17 | 46.3 |
| 5/1/2015 13:03:17 | 46.26 | 45.66 | 844 | 1.21 | 0.17 | 46.2 |
| 5/1/2015 13:03:18 | 46.59 | 45.99 | 844 | 1.23 | 0.17 | 46.2 |
| 5/1/2015 13:03:18 | 46.92 | 46.32 | 844 | 1.20 | 0.17 | 46.2 |
| 5/1/2015 13:03:19 | 47.24 | 46.64 | 844 | 1.21 | 0.17 | 46.2 |
| 5/1/2015 13:03:19 | 47.57 | 46.97 | 844 | 1.21 | 0.17 | 46.2 |
| 5/1/2015 13:03:19 | 47.90 | 47.30 | 841 | 1.21 | 0.17 | 46.0 |
| 5/1/2015 13:03:20 | 48.23 | 47.63 | 838 | 1.21 | 0.17 | 45.8 |
| 5/1/2015 13:03:21 | 48.56 | 47.96 | 836 | 1.20 | 0.17 | 45.7 |
| 5/1/2015 13:03:21 | 48.88 | 48.28 | 818 | 1.19 | 0.17 | 44.7 |
| 5/1/2015 13:03:21 | 49.21 | 48.61 | 818 | 1.19 | 0.17 | 44.7 |
| 5/1/2015 13:03:22 | 49.54 | 48.94 | 818 | 1.21 | 0.17 | 44.7 |
| 5/1/2015 13:03:22 | 49.87 | 49.27 | 828 | 1.23 | 0.17 | 45.3 |
| 5/1/2015 13:03:23 | 50.20 | 49.60 | 823 | 1.24 | 0.17 | 45.0 |
| 5/1/2015 13:03:23 | 50.53 | 49.93 | 836 | 1.21 | 0.17 | 45.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:03:24 | 50.85 | 50.25 | 838 | 1.23 | 0.17 | 45.8 |
| 5/1/2015 | 13:03:24 | 51.18 | 50.58 | 838 | 1.23 | 0.17 | 45.8 |
| 5/1/2015 | 13:03:24 | 51.51 | 50.91 | 859 | 1.23 | 0.17 | 47.0 |
| 5/1/2015 | 13:03:25 | 51.84 | 51.24 | 841 | 1.23 | 0.17 | 46.0 |
| 5/1/2015 | 13:03:25 | 52.17 | 51.57 | 843 | 1.24 | 0.17 | 46.1 |
| 5/1/2015 | 13:03:26 | 52.49 | 51.89 | 827 | 1.23 | 0.17 | 45.2 |
| 5/1/2015 | 13:03:26 | 52.82 | 52.22 | 818 | 1.26 | 0.17 | 44.7 |
| 5/1/2015 | 13:03:27 | 53.15 | 52.55 | 818 | 1.26 | 0.17 | 44.7 |
| 5/1/2015 | 13:03:39 | 53.48 | 52.88 | 8 | 1.18 | 0.80 | 0.5 |
| 5/1/2015 | 13:03:41 | 53.81 | 53.21 | 174 | 1.31 | 1.36 | 9.5 |
| 5/1/2015 | 13:03:49 | 54.13 | 53.53 | 0 | 1.24 | 1.26 | 0.0 |
| 5/1/2015 | 13:03:51 | 54.46 | 53.86 | 68 | 1.80 | 0.95 | 3.7 |
| 5/1/2015 | 13:03:53 | 54.79 | 54.19 | 141 | 1.36 | 1.13 | 7.7 |
| 5/1/2015 | 13:03:55 | 55.12 | 54.52 | 228 | 1.06 | 1.19 | 12.5 |
| 5/1/2015 | 13:03:56 | 55.45 | 54.85 | 235 | 1.19 | 1.08 | 12.9 |
| 5/1/2015 | 13:03:58 | 55.77 | 55.17 | 233 | 1.12 | 1.20 | 12.7 |
| 5/1/2015 | 13:04:00 | 56.10 | 55.50 | 194 | 1.13 | 1.22 | 10.6 |
| 5/1/2015 | 13:04:01 | 56.43 | 55.83 | 214 | 1.14 | 1.11 | 11.7 |
| 5/1/2015 | 13:04:03 | 56.76 | 56.16 | 221 | 1.17 | 1.09 | 12.1 |
| 5/1/2015 | 13:04:06 | 57.09 | 56.49 | 145 | 1.11 | 1.26 | 8.0 |
| 5/1/2015 | 13:04:10 | 57.41 | 56.81 | 87 | 1.17 | 1.14 | 4.7 |
| 5/1/2015 | 13:04:15 | 57.74 | 57.14 | 84 | 1.13 | 1.27 | 4.6 |
| 5/1/2015 | 13:04:19 | 58.07 | 57.47 | 72 | 1.15 | 1.00 | 4.0 |
| 5/1/2015 | 13:04:25 | 58.40 | 57.80 | 67 | 1.09 | 1.12 | 3.6 |
| 5/1/2015 | 13:04:30 | 58.73 | 58.13 | 68 | 1.14 | 0.99 | 3.7 |
| 5/1/2015 | 13:04:37 | 59.06 | 58.46 | 58 | 1.13 | 1.41 | 3.2 |
| 5/1/2015 | 13:04:39 | 59.16 | 58.56 | 54 | 0.75 | 1.14 | 3.0 |

## I1000 - Summary

**Pattern Number:**
Areal_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 13:00:56

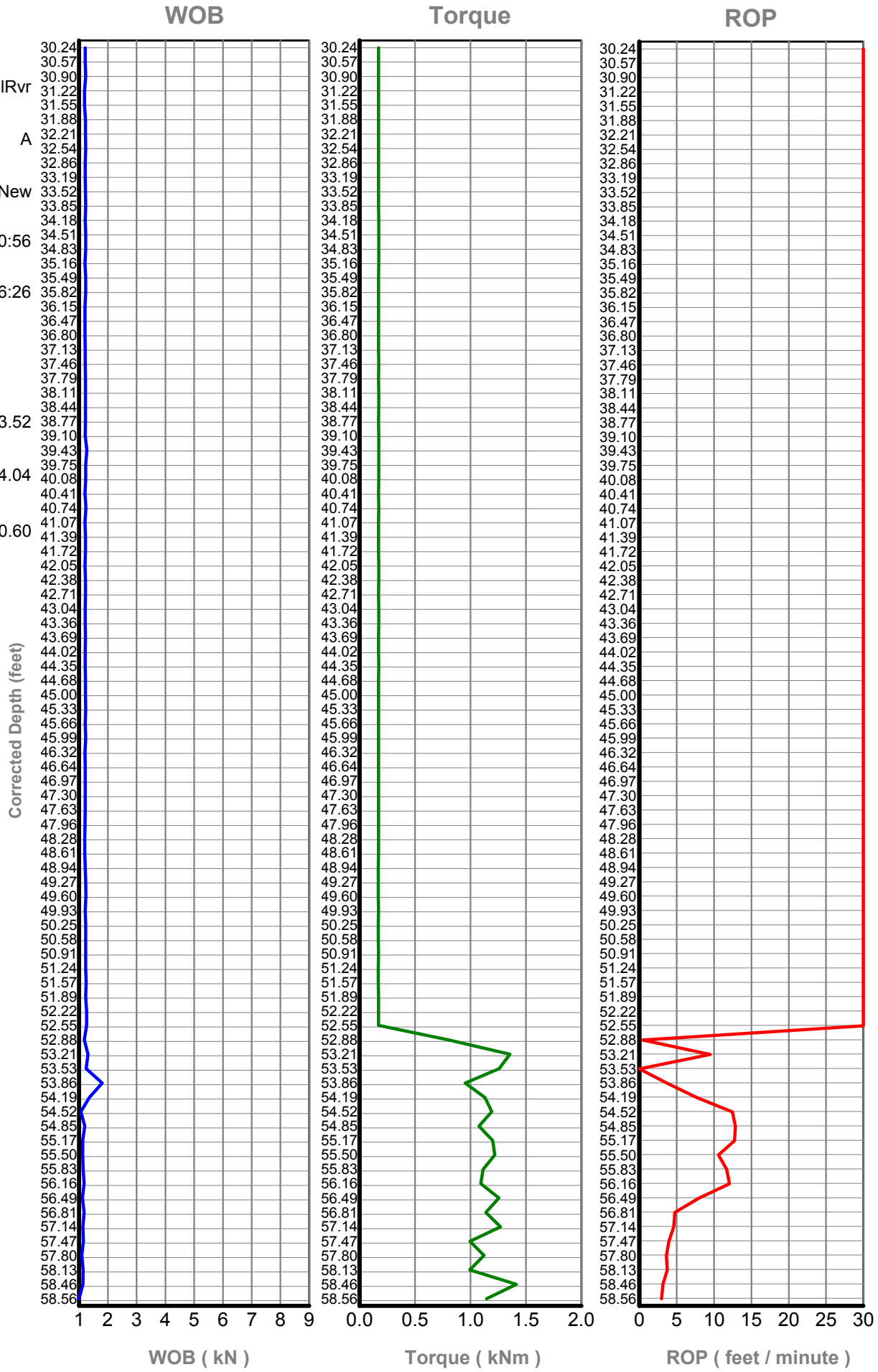
**End Date:**
5/1/2015 13:06:26

**Operator Note:**
5.6 a Auto Complete

**Northing:**
354,453.52

**Easting:**
232,964.04

**Tide (feet):**
0.60



## Hole: L1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:02:14 | 36.09 | 30.19 | 1,119 | 0.36 | 0.39 | 61.2 |
| 5/1/2015 13:02:14 | 36.42 | 30.52 | 1,119 | 0.36 | 0.39 | 61.2 |
| 5/1/2015 13:02:14 | 36.75 | 30.85 | 1,129 | 0.37 | 0.39 | 61.7 |
| 5/1/2015 13:02:15 | 37.07 | 31.17 | 1,129 | 0.37 | 0.39 | 61.7 |
| 5/1/2015 13:02:15 | 37.40 | 31.50 | 1,127 | 0.37 | 0.40 | 61.6 |
| 5/1/2015 13:02:15 | 37.73 | 31.83 | 1,148 | 0.36 | 0.39 | 62.8 |
| 5/1/2015 13:02:16 | 38.06 | 32.16 | 1,148 | 0.36 | 0.39 | 62.8 |
| 5/1/2015 13:02:16 | 38.39 | 32.49 | 1,134 | 0.37 | 0.40 | 62.0 |
| 5/1/2015 13:02:17 | 38.71 | 32.81 | 1,134 | 0.37 | 0.40 | 62.0 |
| 5/1/2015 13:02:16 | 39.04 | 33.14 | 1,146 | 0.37 | 0.39 | 62.7 |
| 5/1/2015 13:02:17 | 39.37 | 33.47 | 1,139 | 0.37 | 0.39 | 62.3 |
| 5/1/2015 13:02:18 | 39.70 | 33.80 | 1,139 | 0.37 | 0.39 | 62.3 |
| 5/1/2015 13:02:18 | 40.03 | 34.13 | 1,142 | 0.37 | 0.40 | 62.4 |
| 5/1/2015 13:02:18 | 40.35 | 34.45 | 1,142 | 0.37 | 0.40 | 62.4 |
| 5/1/2015 13:02:18 | 40.68 | 34.78 | 1,155 | 0.30 | 0.35 | 63.1 |
| 5/1/2015 13:02:19 | 41.01 | 35.11 | 1,159 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 13:02:19 | 41.34 | 35.44 | 1,159 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 13:02:19 | 41.67 | 35.77 | 1,172 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 13:02:20 | 41.99 | 36.09 | 1,172 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 13:02:20 | 42.32 | 36.42 | 1,174 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 13:02:20 | 42.65 | 36.75 | 1,174 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 13:02:20 | 42.98 | 37.08 | 1,185 | 0.28 | 0.36 | 64.8 |
| 5/1/2015 13:02:21 | 43.31 | 37.41 | 1,194 | 0.28 | 0.36 | 65.3 |
| 5/1/2015 13:02:21 | 43.64 | 37.74 | 1,194 | 0.28 | 0.36 | 65.3 |
| 5/1/2015 13:02:21 | 43.96 | 38.06 | 1,194 | 0.27 | 0.36 | 65.3 |
| 5/1/2015 13:02:22 | 44.29 | 38.39 | 1,194 | 0.27 | 0.36 | 65.3 |
| 5/1/2015 13:02:22 | 44.62 | 38.72 | 1,197 | 0.27 | 0.36 | 65.4 |
| 5/1/2015 13:02:22 | 44.95 | 39.05 | 1,197 | 0.27 | 0.36 | 65.4 |
| 5/1/2015 13:02:22 | 45.28 | 39.38 | 1,200 | 0.29 | 0.38 | 65.6 |
| 5/1/2015 13:02:23 | 45.60 | 39.70 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 13:02:23 | 45.93 | 40.03 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 13:02:23 | 46.26 | 40.36 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 13:02:24 | 46.59 | 40.69 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 13:02:24 | 46.92 | 41.02 | 1,194 | 0.27 | 0.37 | 65.3 |
| 5/1/2015 13:02:24 | 47.24 | 41.34 | 1,184 | 0.27 | 0.36 | 64.7 |
| 5/1/2015 13:02:25 | 47.57 | 41.67 | 1,184 | 0.27 | 0.36 | 64.7 |
| 5/1/2015 13:02:25 | 47.90 | 42.00 | 1,197 | 0.29 | 0.36 | 65.4 |
| 5/1/2015 13:02:25 | 48.23 | 42.33 | 1,197 | 0.29 | 0.36 | 65.4 |
| 5/1/2015 13:02:25 | 48.56 | 42.66 | 1,197 | 0.27 | 0.36 | 65.4 |
| 5/1/2015 13:02:26 | 48.88 | 42.98 | 1,197 | 0.27 | 0.36 | 65.4 |
| 5/1/2015 13:02:26 | 49.21 | 43.31 | 1,203 | 0.27 | 0.36 | 65.8 |
| 5/1/2015 13:02:26 | 49.54 | 43.64 | 1,203 | 0.27 | 0.36 | 65.8 |
| 5/1/2015 13:02:26 | 49.87 | 43.97 | 1,203 | 0.27 | 0.37 | 65.8 |
| 5/1/2015 13:02:27 | 50.20 | 44.30 | 1,211 | 0.27 | 0.37 | 66.2 |
| 5/1/2015 13:02:28 | 50.53 | 44.63 | 1,211 | 0.27 | 0.37 | 66.2 |
| 5/1/2015 13:02:28 | 50.85 | 44.95 | 1,205 | 0.26 | 0.37 | 65.9 |
| 5/1/2015 13:02:28 | 51.18 | 45.28 | 1,205 | 0.26 | 0.37 | 65.9 |
| 5/1/2015 13:02:28 | 51.51 | 45.61 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 13:02:29 | 51.84 | 45.94 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 13:02:29 | 52.17 | 46.27 | 1,198 | 0.27 | 0.36 | 65.5 |
| 5/1/2015 13:02:29 | 52.49 | 46.59 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 13:02:30 | 52.82 | 46.92 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 13:02:30 | 53.15 | 47.25 | 1,206 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 13:02:30 | 53.48 | 47.58 | 1,206 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 13:02:30 | 53.81 | 47.91 | 1,200 | 0.28 | 0.37 | 65.6 |
| 5/1/2015 13:02:31 | 54.13 | 48.23 | 1,200 | 0.28 | 0.37 | 65.6 |
| 5/1/2015 13:02:31 | 54.46 | 48.56 | 1,169 | 0.28 | 0.37 | 63.9 |
| 5/1/2015 13:02:31 | 54.79 | 48.89 | 1,169 | 0.20 | 0.37 | 63.9 |
| 5/1/2015 13:02:32 | 55.12 | 49.22 | 1,169 | 0.20 | 0.37 | 63.9 |
| 5/1/2015 13:02:32 | 55.45 | 49.55 | 1,181 | 0.28 | 0.37 | 64.6 |
| 5/1/2015 13:02:32 | 55.77 | 49.87 | 1,143 | 0.26 | 0.48 | 62.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:02:47 | 56.10 | 50.20 | 32 | 3.79 | 0.44 | 1.7 |
| 5/1/2015 | 13:02:48 | 56.43 | 50.53 | 143 | 4.82 | 0.43 | 7.8 |
| 5/1/2015 | 13:02:55 | 56.76 | 50.86 | 97 | 3.34 | 0.45 | 5.3 |
| 5/1/2015 | 13:03:11 | 57.09 | 51.19 | 69 | 3.50 | 0.45 | 3.8 |
| 5/1/2015 | 13:03:18 | 57.41 | 51.51 | 3 | 4.83 | 0.44 | 0.2 |
| 5/1/2015 | 13:03:21 | 57.74 | 51.84 | 150 | 5.36 | 0.44 | 8.2 |
| 5/1/2015 | 13:03:23 | 58.07 | 52.17 | 158 | 3.69 | 0.46 | 8.7 |
| 5/1/2015 | 13:03:25 | 58.40 | 52.50 | 157 | 7.82 | 0.45 | 8.6 |
| 5/1/2015 | 13:03:36 | 58.73 | 52.83 | 66 | 3.73 | 0.45 | 3.6 |
| 5/1/2015 | 13:03:37 | 59.06 | 53.16 | 183 | 5.71 | 0.44 | 10.0 |
| 5/1/2015 | 13:03:47 | 59.38 | 53.48 | 52 | 4.43 | 0.43 | 2.8 |
| 5/1/2015 | 13:03:49 | 59.71 | 53.81 | 171 | 3.04 | 0.44 | 9.4 |
| 5/1/2015 | 13:03:50 | 60.04 | 54.14 | 311 | 5.35 | 0.45 | 17.0 |
| 5/1/2015 | 13:03:53 | 60.37 | 54.47 | 115 | 4.83 | 0.43 | 6.3 |
| 5/1/2015 | 13:03:58 | 60.59 | 54.69 | 18 | 4.21 | 0.47 | 1.0 |

## L1001 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 12:27:07

**End Date:**
5/1/2015 13:06:25

**Operator Note:**
'5.9 '5.7 5.6 b Auto Complete'

**Northing:**
360,461.29

**Easting:**
242,466.44

**Tide (feet):**
5.90



## Hole: L1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:02:20 | 35.76 | 30.06 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:20 | 36.09 | 30.39 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 13:02:21 | 36.42 | 30.72 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 13:02:21 | 36.75 | 31.05 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:21 | 37.07 | 31.37 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:22 | 37.40 | 31.70 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:22 | 37.73 | 32.03 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:22 | 38.06 | 32.36 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:02:23 | 38.39 | 32.69 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:02:23 | 38.71 | 33.01 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:02:24 | 39.04 | 33.34 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:24 | 39.37 | 33.67 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:24 | 39.70 | 34.00 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:25 | 40.03 | 34.33 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:25 | 40.35 | 34.65 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:25 | 40.68 | 34.98 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:02:26 | 41.01 | 35.31 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 13:02:26 | 41.34 | 35.64 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 13:02:26 | 41.67 | 35.97 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 13:02:27 | 41.99 | 36.29 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 13:02:27 | 42.32 | 36.62 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 13:02:27 | 42.65 | 36.95 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:02:28 | 42.98 | 37.28 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 13:02:28 | 43.31 | 37.61 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 13:02:28 | 43.64 | 37.94 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 13:02:29 | 43.96 | 38.26 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:29 | 44.29 | 38.59 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:29 | 44.62 | 38.92 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:30 | 44.95 | 39.25 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:30 | 45.28 | 39.58 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:30 | 45.60 | 39.90 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 13:02:31 | 45.93 | 40.23 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 13:02:31 | 46.26 | 40.56 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 13:02:31 | 46.59 | 40.89 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 13:02:32 | 46.92 | 41.22 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:32 | 47.24 | 41.54 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:32 | 47.57 | 41.87 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 13:02:33 | 47.90 | 42.20 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:33 | 48.23 | 42.53 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:33 | 48.56 | 42.86 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:02:34 | 48.88 | 43.18 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 13:02:35 | 49.21 | 43.51 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 13:02:34 | 49.54 | 43.84 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 13:02:35 | 49.87 | 44.17 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 13:02:36 | 50.20 | 44.50 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 13:02:36 | 50.53 | 44.83 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 13:02:36 | 50.85 | 45.15 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 13:02:37 | 51.18 | 45.48 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 13:02:37 | 51.51 | 45.81 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 13:02:37 | 51.84 | 46.14 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:38 | 52.17 | 46.47 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 13:02:38 | 52.49 | 46.79 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 13:02:38 | 52.82 | 47.12 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 13:02:51 | 53.15 | 47.45 | 41 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 13:02:52 | 53.48 | 47.78 | 165 | 1.14 | 0.29 | 9.0 |
| 5/1/2015 13:02:52 | 53.81 | 48.11 | 283 | 1.14 | 0.29 | 15.5 |
| 5/1/2015 13:02:53 | 54.13 | 48.43 | 402 | 1.14 | 0.29 | 22.0 |
| 5/1/2015 13:02:53 | 54.46 | 48.76 | 473 | 1.14 | 0.29 | 25.9 |
| 5/1/2015 13:02:54 | 54.79 | 49.09 | 556 | 1.14 | 0.29 | 30.4 |
| 5/1/2015 13:02:55 | 55.12 | 49.42 | 570 | 1.14 | 0.29 | 31.2 |
| 5/1/2015 13:03:19 | 55.45 | 49.75 | 94 | 1.14 | 0.29 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:03:20 | 55.77 | 50.07 | 213 | 1.14 | 0.29 | 11.6 |
| 5/1/2015 | 13:03:56 | 56.10 | 50.40 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 | 13:03:59 | 56.43 | 50.73 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 | 13:04:02 | 56.76 | 51.06 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 13:04:52 | 57.09 | 51.39 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 13:04:58 | 57.41 | 51.71 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 13:06:38 | 57.74 | 52.04 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 13:06:42 | 58.07 | 52.37 | 97 | 1.14 | 0.29 | 5.3 |
| 5/1/2015 | 13:07:57 | 58.40 | 52.70 | 55 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 | 13:08:01 | 58.73 | 53.03 | 99 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 | 13:08:14 | 59.06 | 53.36 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 13:08:20 | 59.21 | 53.51 | 29 | 1.14 | 0.29 | 1.6 |

## L1002 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 13:01:07

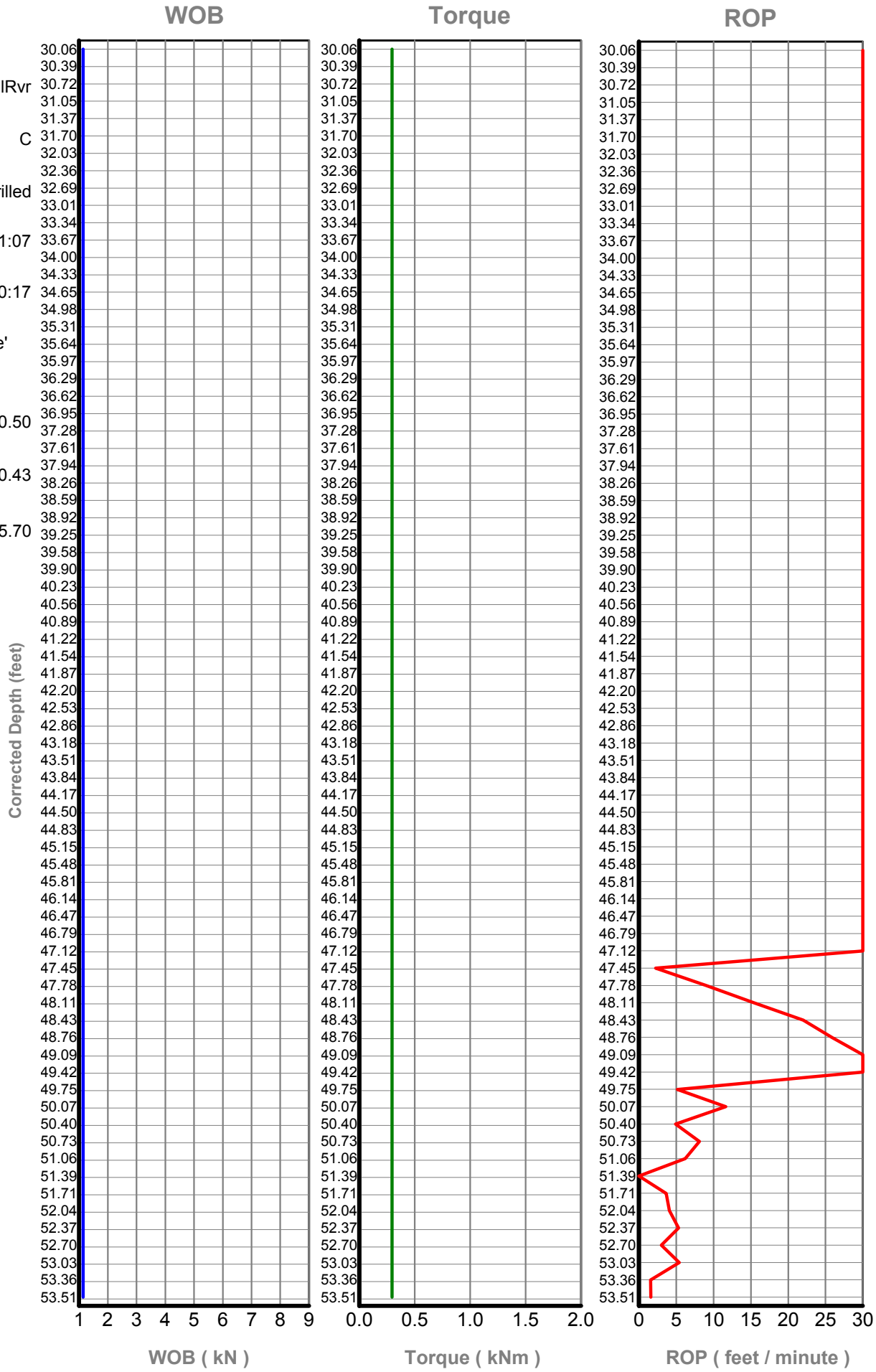
**End Date:**
5/1/2015 13:10:17

**Operator Note:**
'5.7 5.6 c Auto Complete'

**Northing:**
360,500.50

**Easting:**
242,530.43

**Tide (feet):**
5.70



## Hole: L1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 17:39:51 | 31.82 | 30.32 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 17:39:51 | 32.15 | 30.65 | 902 | 1.18 | 0.16 | 49.3 |
| 5/1/2015 17:39:51 | 32.48 | 30.98 | 899 | 1.18 | 0.16 | 49.2 |
| 5/1/2015 17:39:52 | 32.81 | 31.31 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:52 | 33.14 | 31.64 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:52 | 33.46 | 31.96 | 908 | 1.19 | 0.16 | 49.6 |
| 5/1/2015 17:39:53 | 33.79 | 32.29 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:53 | 34.12 | 32.62 | 905 | 1.18 | 0.17 | 49.5 |
| 5/1/2015 17:39:54 | 34.45 | 32.95 | 905 | 1.18 | 0.17 | 49.5 |
| 5/1/2015 17:39:54 | 34.78 | 33.28 | 897 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 17:39:54 | 35.11 | 33.61 | 902 | 1.17 | 0.16 | 49.3 |
| 5/1/2015 17:39:55 | 35.43 | 33.93 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:56 | 35.76 | 34.26 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:55 | 36.09 | 34.59 | 897 | 1.16 | 0.16 | 49.1 |
| 5/1/2015 17:39:56 | 36.42 | 34.92 | 901 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:39:57 | 36.75 | 35.25 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 17:39:57 | 37.07 | 35.57 | 897 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 17:39:58 | 37.40 | 35.90 | 897 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 17:39:58 | 37.73 | 36.23 | 892 | 1.16 | 0.16 | 48.8 |
| 5/1/2015 17:39:58 | 38.06 | 36.56 | 902 | 1.18 | 0.16 | 49.3 |
| 5/1/2015 17:39:59 | 38.39 | 36.89 | 888 | 1.17 | 0.16 | 48.6 |
| 5/1/2015 17:39:59 | 38.71 | 37.21 | 888 | 1.17 | 0.16 | 48.6 |
| 5/1/2015 17:39:59 | 39.04 | 37.54 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 17:40:00 | 39.37 | 37.87 | 903 | 1.18 | 0.16 | 49.4 |
| 5/1/2015 17:40:00 | 39.70 | 38.20 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 17:40:01 | 40.03 | 38.53 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 17:40:01 | 40.35 | 38.85 | 900 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 17:40:01 | 40.68 | 39.18 | 911 | 1.15 | 0.16 | 49.8 |
| 5/1/2015 17:40:02 | 41.01 | 39.51 | 893 | 1.19 | 0.16 | 48.9 |
| 5/1/2015 17:40:02 | 41.34 | 39.84 | 893 | 1.19 | 0.16 | 48.9 |
| 5/1/2015 17:40:02 | 41.67 | 40.17 | 893 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 17:40:03 | 41.99 | 40.49 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 17:40:03 | 42.32 | 40.82 | 890 | 1.16 | 0.16 | 48.7 |
| 5/1/2015 17:40:04 | 42.65 | 41.15 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 17:40:04 | 42.98 | 41.48 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 17:40:04 | 43.31 | 41.81 | 893 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 17:40:05 | 43.64 | 42.14 | 893 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 17:40:05 | 43.96 | 42.46 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 17:40:06 | 44.29 | 42.79 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 17:40:06 | 44.62 | 43.12 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 17:40:07 | 44.95 | 43.45 | 896 | 1.18 | 0.16 | 49.0 |
| 5/1/2015 17:40:07 | 45.28 | 43.78 | 890 | 1.18 | 0.16 | 48.7 |
| 5/1/2015 17:40:08 | 45.60 | 44.10 | 890 | 1.18 | 0.16 | 48.7 |
| 5/1/2015 17:40:08 | 45.93 | 44.43 | 887 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 17:40:08 | 46.26 | 44.76 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 17:40:09 | 46.59 | 45.09 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 17:40:09 | 46.92 | 45.42 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 17:40:10 | 47.24 | 45.74 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 17:40:10 | 47.57 | 46.07 | 876 | 1.19 | 0.16 | 47.9 |
| 5/1/2015 17:40:10 | 47.90 | 46.40 | 861 | 1.19 | 0.16 | 47.1 |
| 5/1/2015 17:40:11 | 48.23 | 46.73 | 861 | 1.19 | 0.16 | 47.1 |
| 5/1/2015 17:40:11 | 48.56 | 47.06 | 855 | 1.58 | 0.16 | 46.8 |
| 5/1/2015 17:40:31 | 48.88 | 47.38 | 72 | 1.17 | 1.30 | 4.0 |
| 5/1/2015 17:40:33 | 49.21 | 47.71 | 168 | 1.16 | 1.23 | 9.2 |
| 5/1/2015 17:40:34 | 49.54 | 48.04 | 185 | 1.26 | 1.27 | 10.1 |
| 5/1/2015 17:40:36 | 49.87 | 48.37 | 228 | 1.09 | 1.53 | 12.5 |
| 5/1/2015 17:40:38 | 50.20 | 48.70 | 207 | 1.11 | 1.42 | 11.3 |
| 5/1/2015 17:40:40 | 50.53 | 49.03 | 193 | 1.18 | 1.39 | 10.5 |
| 5/1/2015 17:40:43 | 50.85 | 49.35 | 130 | 1.11 | 1.23 | 7.1 |
| 5/1/2015 17:40:46 | 51.18 | 49.68 | 103 | 1.07 | 1.11 | 5.7 |
| 5/1/2015 17:40:50 | 51.51 | 50.01 | 107 | 1.15 | 1.33 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 17:40:52 | 51.84 | 50.34 | 136 | 1.06 | 1.55 | 7.4 |
| 5/1/2015 | 17:40:54 | 52.17 | 50.67 | 176 | 1.14 | 1.48 | 9.6 |
| 5/1/2015 | 17:40:55 | 52.49 | 50.99 | 244 | 1.11 | 1.13 | 13.3 |
| 5/1/2015 | 17:40:57 | 52.82 | 51.32 | 176 | 1.07 | 1.32 | 9.6 |
| 5/1/2015 | 17:41:00 | 53.15 | 51.65 | 161 | 1.07 | 1.48 | 8.8 |
| 5/1/2015 | 17:41:01 | 53.48 | 51.98 | 205 | 1.11 | 1.26 | 11.2 |
| 5/1/2015 | 17:41:02 | 53.81 | 52.31 | 280 | 1.13 | 1.04 | 15.3 |
| 5/1/2015 | 17:41:03 | 54.13 | 52.63 | 275 | 1.13 | 1.29 | 15.0 |
| 5/1/2015 | 17:41:04 | 54.46 | 52.96 | 305 | 1.05 | 0.82 | 16.7 |
| 5/1/2015 | 17:41:05 | 54.79 | 53.29 | 326 | 1.13 | 0.85 | 17.8 |
| 5/1/2015 | 17:41:06 | 55.12 | 53.62 | 419 | 1.02 | 0.88 | 22.9 |
| 5/1/2015 | 17:41:07 | 55.45 | 53.95 | 428 | 1.17 | 0.88 | 23.4 |
| 5/1/2015 | 17:41:08 | 55.77 | 54.27 | 354 | 1.98 | 1.02 | 19.3 |
| 5/1/2015 | 17:41:09 | 56.10 | 54.60 | 378 | 0.62 | 0.92 | 20.7 |

## L1003 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 17:38:19

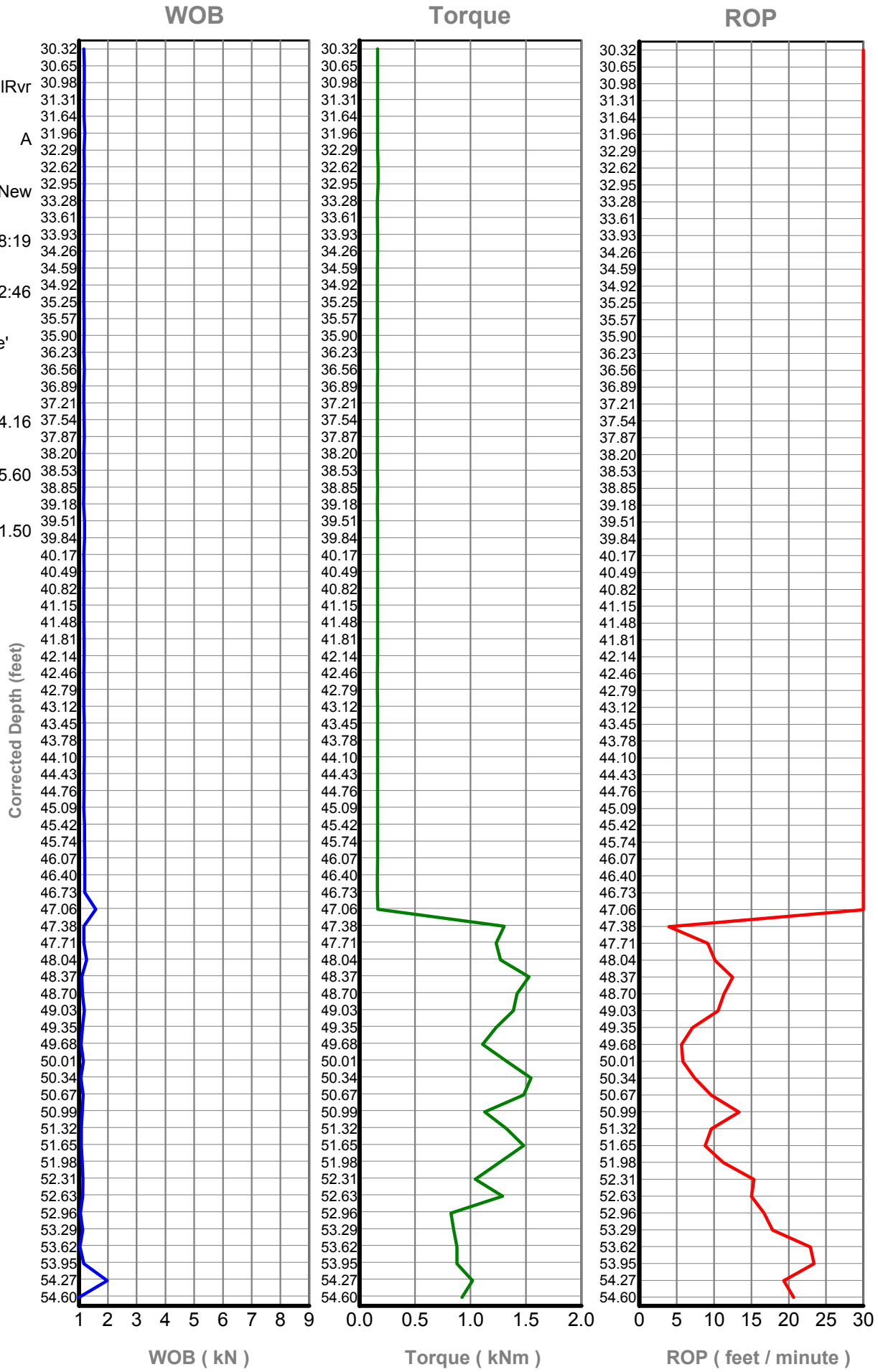
**End Date:**
5/1/2015 17:42:46

**Operator Note:**
'1.5 1.0 a Auto Complete'

**Northing:**
360,064.16

**Easting:**
241,825.60

**Tide (feet):**
1.50



## Hole: L1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 17:39:54 | 31.82 | 30.32 | 1,167 | 0.27 | 0.37 | 63.8 |
| 5/1/2015 17:39:54 | 32.15 | 30.65 | 1,174 | 0.27 | 0.38 | 64.2 |
| 5/1/2015 17:39:55 | 32.48 | 30.98 | 1,174 | 0.27 | 0.38 | 64.2 |
| 5/1/2015 17:39:55 | 32.81 | 31.31 | 1,171 | 0.27 | 0.36 | 64.0 |
| 5/1/2015 17:39:55 | 33.14 | 31.64 | 1,171 | 0.27 | 0.36 | 64.0 |
| 5/1/2015 17:39:55 | 33.46 | 31.96 | 1,177 | 0.27 | 0.38 | 64.3 |
| 5/1/2015 17:39:56 | 33.79 | 32.29 | 1,177 | 0.27 | 0.38 | 64.3 |
| 5/1/2015 17:39:56 | 34.12 | 32.62 | 1,182 | 0.26 | 0.37 | 64.7 |
| 5/1/2015 17:39:56 | 34.45 | 32.95 | 1,185 | 0.27 | 0.36 | 64.8 |
| 5/1/2015 17:39:57 | 34.78 | 33.28 | 1,185 | 0.27 | 0.36 | 64.8 |
| 5/1/2015 17:39:57 | 35.11 | 33.61 | 1,182 | 0.28 | 0.37 | 64.6 |
| 5/1/2015 17:39:57 | 35.43 | 33.93 | 1,182 | 0.28 | 0.37 | 64.6 |
| 5/1/2015 17:39:57 | 35.76 | 34.26 | 1,175 | 0.27 | 0.38 | 64.3 |
| 5/1/2015 17:39:58 | 36.09 | 34.59 | 1,169 | 0.26 | 0.38 | 64.0 |
| 5/1/2015 17:39:58 | 36.42 | 34.92 | 1,169 | 0.26 | 0.38 | 64.0 |
| 5/1/2015 17:39:58 | 36.75 | 35.25 | 1,177 | 0.27 | 0.36 | 64.4 |
| 5/1/2015 17:39:59 | 37.07 | 35.57 | 1,177 | 0.27 | 0.36 | 64.4 |
| 5/1/2015 17:39:59 | 37.40 | 35.90 | 1,177 | 0.28 | 0.38 | 64.4 |
| 5/1/2015 17:39:59 | 37.73 | 36.23 | 1,177 | 0.28 | 0.38 | 64.4 |
| 5/1/2015 17:39:59 | 38.06 | 36.56 | 1,180 | 0.27 | 0.36 | 64.5 |
| 5/1/2015 17:40:00 | 38.39 | 36.89 | 1,184 | 0.27 | 0.38 | 64.7 |
| 5/1/2015 17:40:01 | 38.71 | 37.21 | 1,184 | 0.27 | 0.38 | 64.7 |
| 5/1/2015 17:40:01 | 39.04 | 37.54 | 1,188 | 0.27 | 0.37 | 65.0 |
| 5/1/2015 17:40:01 | 39.37 | 37.87 | 1,188 | 0.27 | 0.37 | 65.0 |
| 5/1/2015 17:40:01 | 39.70 | 38.20 | 1,191 | 0.34 | 0.38 | 65.1 |
| 5/1/2015 17:40:02 | 40.03 | 38.53 | 1,189 | 0.27 | 0.36 | 65.0 |
| 5/1/2015 17:40:02 | 40.35 | 38.85 | 1,189 | 0.27 | 0.36 | 65.0 |
| 5/1/2015 17:40:02 | 40.68 | 39.18 | 1,179 | 0.28 | 0.36 | 64.5 |
| 5/1/2015 17:40:03 | 41.01 | 39.51 | 1,179 | 0.28 | 0.36 | 64.5 |
| 5/1/2015 17:40:03 | 41.34 | 39.84 | 1,191 | 0.28 | 0.37 | 65.1 |
| 5/1/2015 17:40:03 | 41.67 | 40.17 | 1,191 | 0.28 | 0.37 | 65.1 |
| 5/1/2015 17:40:03 | 41.99 | 40.49 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 17:40:04 | 42.32 | 40.82 | 1,183 | 0.30 | 0.37 | 64.7 |
| 5/1/2015 17:40:04 | 42.65 | 41.15 | 1,183 | 0.30 | 0.37 | 64.7 |
| 5/1/2015 17:40:04 | 42.98 | 41.48 | 1,185 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 17:40:05 | 43.31 | 41.81 | 1,185 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 17:40:05 | 43.64 | 42.14 | 1,200 | 0.48 | 0.37 | 65.6 |
| 5/1/2015 17:40:05 | 43.96 | 42.46 | 1,200 | 0.48 | 0.37 | 65.6 |
| 5/1/2015 17:40:05 | 44.29 | 42.79 | 1,192 | 0.29 | 0.38 | 65.2 |
| 5/1/2015 17:40:06 | 44.62 | 43.12 | 1,200 | 0.28 | 0.45 | 65.6 |
| 5/1/2015 17:40:21 | 44.95 | 43.45 | 6 | 3.88 | 0.45 | 0.3 |
| 5/1/2015 17:40:27 | 45.28 | 43.78 | 0 | 4.40 | 0.48 | 0.0 |
| 5/1/2015 17:40:31 | 45.60 | 44.10 | 98 | 3.22 | 0.46 | 5.4 |
| 5/1/2015 17:40:37 | 45.93 | 44.43 | 66 | 4.53 | 0.43 | 3.6 |
| 5/1/2015 17:40:38 | 46.26 | 44.76 | 169 | 4.13 | 0.41 | 9.2 |
| 5/1/2015 17:40:38 | 46.59 | 45.09 | 304 | 2.14 | 0.39 | 16.6 |
| 5/1/2015 17:40:39 | 46.92 | 45.42 | 304 | 2.14 | 0.39 | 16.6 |
| 5/1/2015 17:40:39 | 47.24 | 45.74 | 498 | 1.85 | 0.36 | 27.3 |
| 5/1/2015 17:41:17 | 47.57 | 46.07 | 0 | 2.39 | 0.41 | 0.0 |
| 5/1/2015 17:41:20 | 47.90 | 46.40 | 122 | 3.33 | 0.46 | 6.7 |
| 5/1/2015 17:41:22 | 48.23 | 46.73 | 161 | 3.27 | 0.45 | 8.8 |
| 5/1/2015 17:41:25 | 48.56 | 47.06 | 142 | 3.24 | 0.45 | 7.7 |
| 5/1/2015 17:41:27 | 48.88 | 47.38 | 162 | 3.06 | 0.45 | 8.9 |
| 5/1/2015 17:41:30 | 49.21 | 47.71 | 89 | 3.41 | 0.46 | 4.8 |
| 5/1/2015 17:41:35 | 49.54 | 48.04 | 82 | 3.56 | 0.46 | 4.5 |
| 5/1/2015 17:42:09 | 49.87 | 48.37 | 0 | 4.17 | 0.46 | 0.0 |
| 5/1/2015 17:42:12 | 50.20 | 48.70 | 99 | 3.58 | 0.46 | 5.4 |
| 5/1/2015 17:42:15 | 50.53 | 49.03 | 108 | 3.64 | 0.46 | 5.9 |
| 5/1/2015 17:42:19 | 50.85 | 49.35 | 110 | 3.63 | 0.45 | 6.0 |
| 5/1/2015 17:42:22 | 51.18 | 49.68 | 128 | 3.34 | 0.45 | 7.0 |
| 5/1/2015 17:42:25 | 51.51 | 50.01 | 113 | 4.04 | 0.45 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 17:42:27 | 51.84 | 50.34 | 162 | 2.98 | 0.45 | 8.9 |
| 5/1/2015 | 17:42:31 | 52.17 | 50.67 | 67 | 3.52 | 0.46 | 3.6 |
| 5/1/2015 | 17:42:35 | 52.49 | 50.99 | 99 | 3.08 | 0.46 | 5.4 |
| 5/1/2015 | 17:42:38 | 52.82 | 51.32 | 101 | 3.25 | 0.45 | 5.5 |
| 5/1/2015 | 17:42:41 | 53.15 | 51.65 | 153 | 3.21 | 0.46 | 8.4 |
| 5/1/2015 | 17:42:44 | 53.48 | 51.98 | 90 | 3.31 | 0.46 | 4.9 |
| 5/1/2015 | 17:42:48 | 53.81 | 52.31 | 104 | 3.41 | 0.44 | 5.7 |
| 5/1/2015 | 17:42:50 | 54.13 | 52.63 | 144 | 2.66 | 0.46 | 7.9 |
| 5/1/2015 | 17:42:55 | 54.46 | 52.96 | 0 | 2.77 | 0.46 | 0.0 |
| 5/1/2015 | 17:43:01 | 54.79 | 53.29 | 61 | 2.89 | 0.46 | 3.3 |
| 5/1/2015 | 17:43:09 | 55.12 | 53.62 | 75 | 3.51 | 0.46 | 4.1 |
| 5/1/2015 | 17:43:13 | 55.45 | 53.95 | 84 | 3.24 | 0.46 | 4.6 |
| 5/1/2015 | 17:43:17 | 55.77 | 54.27 | 93 | 3.73 | 0.46 | 5.1 |
| 5/1/2015 | 17:43:21 | 56.10 | 54.60 | 90 | 3.52 | 0.47 | 4.9 |
| 5/1/2015 | 17:43:24 | 56.43 | 54.93 | 114 | 3.86 | 0.46 | 6.2 |
| 5/1/2015 | 17:43:25 | 56.53 | 55.03 | 108 | 3.60 | 0.46 | 5.9 |

## L1004 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 17:38:06

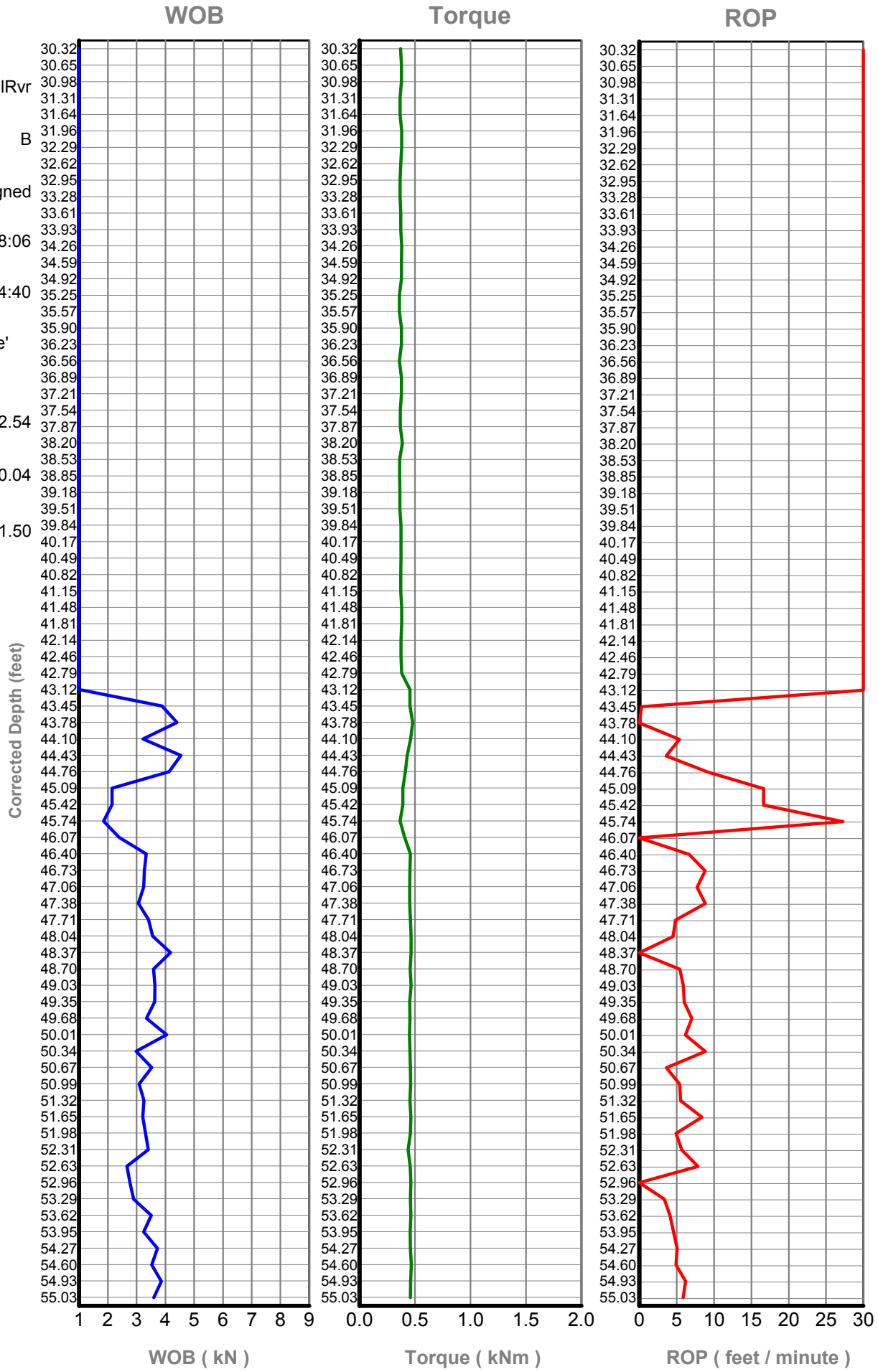
**End Date:**
5/1/2015 17:44:40

**Operator Note:**
'1.5 1.5 b Auto Complete'

**Northing:**
360,102.54

**Easting:**
241,890.04

**Tide (feet):**
1.50



## Hole: L1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 17:40:11 | 31.82 | 30.32 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:11 | 32.15 | 30.65 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:12 | 32.48 | 30.98 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:12 | 32.81 | 31.31 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:12 | 33.14 | 31.64 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:13 | 33.46 | 31.96 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:14 | 33.79 | 32.29 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:40:13 | 34.12 | 32.62 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 17:40:14 | 34.45 | 32.95 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:40:14 | 34.78 | 33.28 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:40:15 | 35.11 | 33.61 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:40:15 | 35.43 | 33.93 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:40:15 | 35.76 | 34.26 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:16 | 36.09 | 34.59 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:16 | 36.42 | 34.92 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:16 | 36.75 | 35.25 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 17:40:17 | 37.07 | 35.57 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:40:17 | 37.40 | 35.90 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:40:17 | 37.73 | 36.23 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:18 | 38.06 | 36.56 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:40:18 | 38.39 | 36.89 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:40:18 | 38.71 | 37.21 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:19 | 39.04 | 37.54 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:19 | 39.37 | 37.87 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:19 | 39.70 | 38.20 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:20 | 40.03 | 38.53 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:20 | 40.35 | 38.85 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:20 | 40.68 | 39.18 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:21 | 41.01 | 39.51 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:21 | 41.34 | 39.84 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 17:40:21 | 41.67 | 40.17 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:22 | 41.99 | 40.49 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:40:22 | 42.32 | 40.82 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:22 | 42.65 | 41.15 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:23 | 42.98 | 41.48 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:40:23 | 43.31 | 41.81 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 17:40:23 | 43.64 | 42.14 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 17:40:23 | 43.96 | 42.46 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:40:24 | 44.29 | 42.79 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:40:24 | 44.62 | 43.12 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:40:24 | 44.95 | 43.45 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:40:25 | 45.28 | 43.78 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 17:40:25 | 45.60 | 44.10 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 17:40:25 | 45.93 | 44.43 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 17:40:26 | 46.26 | 44.76 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 17:40:42 | 46.59 | 45.09 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 17:40:44 | 46.92 | 45.42 | 246 | 1.14 | 0.29 | 13.4 |
| 5/1/2015 17:40:45 | 47.24 | 45.74 | 279 | 1.14 | 0.29 | 15.3 |
| 5/1/2015 17:40:48 | 47.57 | 46.07 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 17:40:51 | 47.90 | 46.40 | 101 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 17:40:55 | 48.23 | 46.73 | 100 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 17:40:58 | 48.56 | 47.06 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 17:41:02 | 48.88 | 47.38 | 87 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 17:41:05 | 49.21 | 47.71 | 111 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 17:41:09 | 49.54 | 48.04 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 17:41:12 | 49.87 | 48.37 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 17:41:16 | 50.20 | 48.70 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 17:41:20 | 50.53 | 49.03 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 17:41:24 | 50.85 | 49.35 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 17:41:28 | 51.18 | 49.68 | 94 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 17:41:31 | 51.51 | 50.01 | 94 | 1.14 | 0.29 | 5.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 17:41:55 | 51.84 | 50.34 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 17:41:59 | 52.17 | 50.67 | 81 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 17:42:04 | 52.49 | 50.99 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 17:42:09 | 52.82 | 51.32 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 17:42:13 | 53.15 | 51.65 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 17:42:14 | 53.24 | 51.74 | 84 | 1.14 | 0.29 | 4.6 |

## L1005 - Summary

**Pattern Number:**
AREA L LANE7A

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/1/2015 17:38:14

**End Date:**
5/1/2015 17:43:25

**Operator Note:**
'1.5 1.0 c Auto Complete'

**Northing:**
360,140.91

**Easting:**
241,954.47

**Tide (feet):**
1.50



## Hole: L1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 17:00:44 | 32.15 | 30.15 | 902 | 1.16 | 0.16 | 49.4 |
| 5/1/2015 17:00:45 | 32.48 | 30.48 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 17:00:45 | 32.81 | 30.81 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:46 | 33.14 | 31.14 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:46 | 33.46 | 31.46 | 913 | 1.14 | 0.16 | 49.9 |
| 5/1/2015 17:00:46 | 33.79 | 31.79 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:47 | 34.12 | 32.12 | 910 | 1.15 | 0.16 | 49.8 |
| 5/1/2015 17:00:47 | 34.45 | 32.45 | 910 | 1.15 | 0.16 | 49.8 |
| 5/1/2015 17:00:47 | 34.78 | 32.78 | 908 | 1.13 | 0.16 | 49.6 |
| 5/1/2015 17:00:48 | 35.11 | 33.11 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:48 | 35.43 | 33.43 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 17:00:49 | 35.76 | 33.76 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 17:00:49 | 36.09 | 34.09 | 902 | 1.16 | 0.16 | 49.3 |
| 5/1/2015 17:00:49 | 36.42 | 34.42 | 900 | 1.14 | 0.16 | 49.2 |
| 5/1/2015 17:00:50 | 36.75 | 34.75 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 17:00:50 | 37.07 | 35.07 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 17:00:50 | 37.40 | 35.40 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 17:00:51 | 37.73 | 35.73 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 17:00:51 | 38.06 | 36.06 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:52 | 38.39 | 36.39 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:52 | 38.71 | 36.71 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:52 | 39.04 | 37.04 | 908 | 1.15 | 0.16 | 49.6 |
| 5/1/2015 17:00:53 | 39.37 | 37.37 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:54 | 39.70 | 37.70 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 17:00:53 | 40.03 | 38.03 | 897 | 0.90 | 0.16 | 49.1 |
| 5/1/2015 17:00:54 | 40.35 | 38.35 | 908 | 1.17 | 0.16 | 49.7 |
| 5/1/2015 17:00:55 | 40.68 | 38.68 | 906 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 17:00:55 | 41.01 | 39.01 | 900 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 17:00:56 | 41.34 | 39.34 | 900 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 17:00:56 | 41.67 | 39.67 | 890 | 1.15 | 0.20 | 48.7 |
| 5/1/2015 17:00:56 | 41.99 | 39.99 | 906 | 1.15 | 0.16 | 49.6 |
| 5/1/2015 17:00:57 | 42.32 | 40.32 | 897 | 1.15 | 0.16 | 49.1 |
| 5/1/2015 17:00:57 | 42.65 | 40.65 | 897 | 1.15 | 0.16 | 49.1 |
| 5/1/2015 17:00:57 | 42.98 | 40.98 | 897 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 17:00:58 | 43.31 | 41.31 | 895 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 17:00:58 | 43.64 | 41.64 | 913 | 1.15 | 0.16 | 49.9 |
| 5/1/2015 17:00:59 | 43.96 | 41.96 | 913 | 1.15 | 0.16 | 49.9 |
| 5/1/2015 17:00:59 | 44.29 | 42.29 | 899 | 1.15 | 0.16 | 49.2 |
| 5/1/2015 17:00:59 | 44.62 | 42.62 | 899 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 17:01:00 | 44.95 | 42.95 | 899 | 1.15 | 0.16 | 49.2 |
| 5/1/2015 17:01:00 | 45.28 | 43.28 | 899 | 1.15 | 0.16 | 49.2 |
| 5/1/2015 17:01:00 | 45.60 | 43.60 | 899 | 1.16 | 0.17 | 49.2 |
| 5/1/2015 17:01:01 | 45.93 | 43.93 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 17:01:01 | 46.26 | 44.26 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 17:01:02 | 46.59 | 44.59 | 888 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 17:01:02 | 46.92 | 44.92 | 888 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 17:01:03 | 47.24 | 45.24 | 888 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 17:01:03 | 47.57 | 45.57 | 892 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 17:01:03 | 47.90 | 45.90 | 892 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 17:01:04 | 48.23 | 46.23 | 892 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 17:01:04 | 48.56 | 46.56 | 886 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 17:01:05 | 48.88 | 46.88 | 892 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 17:01:05 | 49.21 | 47.21 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 17:01:06 | 49.54 | 47.54 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 17:01:06 | 49.87 | 47.87 | 888 | 1.17 | 0.16 | 48.6 |
| 5/1/2015 17:01:06 | 50.20 | 48.20 | 884 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 17:01:07 | 50.53 | 48.53 | 879 | 1.30 | 0.15 | 48.0 |
| 5/1/2015 17:01:22 | 50.85 | 48.85 | 0 | 1.14 | 0.86 | 0.0 |
| 5/1/2015 17:01:27 | 51.18 | 49.18 | 6 | 1.19 | 0.84 | 0.3 |
| 5/1/2015 17:01:29 | 51.51 | 49.51 | 180 | 1.09 | 1.19 | 9.8 |
| 5/1/2015 17:01:36 | 51.84 | 49.84 | 79 | 1.02 | 1.53 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 17:01:38 | 52.17 | 50.17 | 142 | 1.17 | 1.02 | 7.8 |
| 5/1/2015 | 17:01:42 | 52.49 | 50.49 | 89 | 1.07 | 1.17 | 4.9 |
| 5/1/2015 | 17:01:45 | 52.82 | 50.82 | 114 | 1.09 | 1.25 | 6.2 |
| 5/1/2015 | 17:01:48 | 53.15 | 51.15 | 111 | 1.09 | 1.28 | 6.1 |
| 5/1/2015 | 17:01:51 | 53.48 | 51.48 | 128 | 1.04 | 1.29 | 7.0 |
| 5/1/2015 | 17:02:00 | 53.81 | 51.81 | 23 | 1.11 | 1.04 | 1.3 |
| 5/1/2015 | 17:02:14 | 54.13 | 52.13 | 23 | 1.07 | 1.00 | 1.2 |
| 5/1/2015 | 17:02:29 | 54.46 | 52.46 | 26 | 1.03 | 1.09 | 1.4 |
| 5/1/2015 | 17:02:34 | 54.79 | 52.79 | 84 | 1.03 | 1.37 | 4.6 |
| 5/1/2015 | 17:02:34 | 54.86 | 52.86 | 92 | 1.17 | 1.29 | 5.0 |

## L1006 - Summary

**Pattern Number:**
AreaK_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 16:52:03

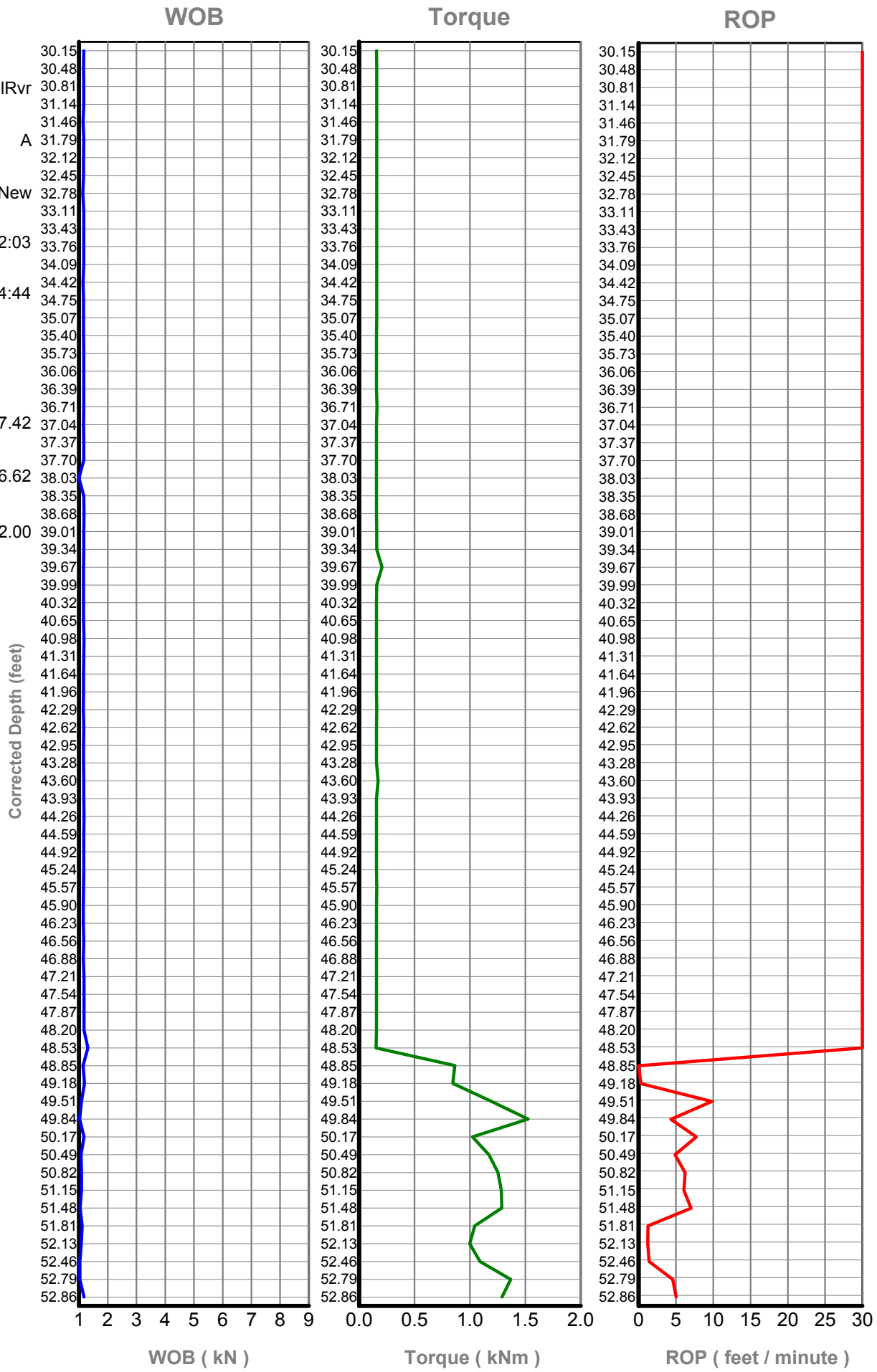
**End Date:**
5/1/2015 17:04:44

**Operator Note:**
'2 2.0 a Auto Complete'

**Northing:**
359,747.42

**Easting:**
241,756.62

**Tide (feet):**
2.00



## Hole: L1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:59:58 | 32.15 | 30.25 | 1,173 | 0.27 | 0.37 | 64.2 |
| 5/1/2015 16:59:58 | 32.48 | 30.58 | 1,183 | 0.28 | 0.37 | 64.7 |
| 5/1/2015 16:59:58 | 32.81 | 30.91 | 1,176 | 0.27 | 0.37 | 64.3 |
| 5/1/2015 16:59:59 | 33.14 | 31.24 | 1,176 | 0.27 | 0.37 | 64.3 |
| 5/1/2015 16:59:59 | 33.46 | 31.56 | 1,200 | 0.27 | 0.36 | 65.6 |
| 5/1/2015 16:59:59 | 33.79 | 31.89 | 1,200 | 0.27 | 0.36 | 65.6 |
| 5/1/2015 16:59:59 | 34.12 | 32.22 | 1,188 | 0.27 | 0.38 | 65.0 |
| 5/1/2015 17:00:00 | 34.45 | 32.55 | 1,191 | 0.27 | 0.36 | 65.1 |
| 5/1/2015 17:00:00 | 34.78 | 32.88 | 1,191 | 0.27 | 0.36 | 65.1 |
| 5/1/2015 17:00:00 | 35.11 | 33.21 | 1,191 | 0.27 | 0.38 | 65.1 |
| 5/1/2015 17:00:01 | 35.43 | 33.53 | 1,191 | 0.27 | 0.38 | 65.1 |
| 5/1/2015 17:00:01 | 35.76 | 33.86 | 1,188 | 0.26 | 0.38 | 65.0 |
| 5/1/2015 17:00:01 | 36.09 | 34.19 | 1,188 | 0.26 | 0.38 | 65.0 |
| 5/1/2015 17:00:01 | 36.42 | 34.52 | 1,178 | 0.27 | 0.37 | 64.4 |
| 5/1/2015 17:00:02 | 36.75 | 34.85 | 1,188 | 0.27 | 0.36 | 65.0 |
| 5/1/2015 17:00:02 | 37.07 | 35.17 | 1,188 | 0.27 | 0.36 | 65.0 |
| 5/1/2015 17:00:02 | 37.40 | 35.50 | 1,188 | 0.27 | 0.37 | 65.0 |
| 5/1/2015 17:00:03 | 37.73 | 35.83 | 1,188 | 0.27 | 0.37 | 65.0 |
| 5/1/2015 17:00:03 | 38.06 | 36.16 | 1,185 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 17:00:03 | 38.39 | 36.49 | 1,185 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 17:00:03 | 38.71 | 36.81 | 1,188 | 0.27 | 0.37 | 65.0 |
| 5/1/2015 17:00:04 | 39.04 | 37.14 | 1,174 | 0.29 | 0.36 | 64.2 |
| 5/1/2015 17:00:05 | 39.37 | 37.47 | 1,174 | 0.29 | 0.36 | 64.2 |
| 5/1/2015 17:00:04 | 39.70 | 37.80 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 17:00:05 | 40.03 | 38.13 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 17:00:05 | 40.35 | 38.45 | 1,171 | 0.28 | 0.36 | 64.0 |
| 5/1/2015 17:00:06 | 40.68 | 38.78 | 1,171 | 0.28 | 0.36 | 64.0 |
| 5/1/2015 17:00:06 | 41.01 | 39.11 | 1,183 | 0.28 | 0.36 | 64.7 |
| 5/1/2015 17:00:06 | 41.34 | 39.44 | 1,189 | 0.31 | 0.37 | 65.0 |
| 5/1/2015 17:00:07 | 41.67 | 39.77 | 1,189 | 0.31 | 0.37 | 65.0 |
| 5/1/2015 17:00:07 | 41.99 | 40.09 | 1,192 | 0.27 | 0.38 | 65.2 |
| 5/1/2015 17:00:07 | 42.32 | 40.42 | 1,192 | 0.27 | 0.38 | 65.2 |
| 5/1/2015 17:00:07 | 42.65 | 40.75 | 1,219 | 0.27 | 0.37 | 66.6 |
| 5/1/2015 17:00:08 | 42.98 | 41.08 | 1,219 | 0.27 | 0.37 | 66.6 |
| 5/1/2015 17:00:08 | 43.31 | 41.41 | 1,215 | 0.28 | 0.37 | 66.4 |
| 5/1/2015 17:00:08 | 43.64 | 41.74 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 17:00:09 | 43.96 | 42.06 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 17:00:09 | 44.29 | 42.39 | 1,195 | 0.27 | 0.37 | 65.4 |
| 5/1/2015 17:00:09 | 44.62 | 42.72 | 1,195 | 0.27 | 0.37 | 65.4 |
| 5/1/2015 17:00:09 | 44.95 | 43.05 | 1,200 | 0.25 | 0.40 | 65.6 |
| 5/1/2015 17:00:10 | 45.28 | 43.38 | 1,149 | 0.28 | 0.36 | 62.9 |
| 5/1/2015 17:00:10 | 45.60 | 43.70 | 1,149 | 0.28 | 0.36 | 62.9 |
| 5/1/2015 17:00:10 | 45.93 | 44.03 | 1,151 | 0.27 | 0.37 | 62.9 |
| 5/1/2015 17:00:11 | 46.26 | 44.36 | 1,151 | 0.27 | 0.37 | 62.9 |
| 5/1/2015 17:00:11 | 46.59 | 44.69 | 1,134 | 0.26 | 0.35 | 62.0 |
| 5/1/2015 17:00:11 | 46.92 | 45.02 | 1,122 | 0.28 | 0.35 | 61.4 |
| 5/1/2015 17:00:12 | 47.24 | 45.34 | 1,122 | 0.28 | 0.35 | 61.4 |
| 5/1/2015 17:00:12 | 47.57 | 45.67 | 1,125 | 0.27 | 0.37 | 61.5 |
| 5/1/2015 17:00:12 | 47.90 | 46.00 | 1,125 | 0.27 | 0.37 | 61.5 |
| 5/1/2015 17:00:12 | 48.23 | 46.33 | 1,174 | 0.27 | 0.36 | 64.2 |
| 5/1/2015 17:00:13 | 48.56 | 46.66 | 1,174 | 0.27 | 0.36 | 64.2 |
| 5/1/2015 17:00:13 | 48.88 | 46.98 | 1,183 | 0.27 | 0.38 | 64.7 |
| 5/1/2015 17:00:13 | 49.21 | 47.31 | 1,197 | 0.27 | 0.37 | 65.5 |
| 5/1/2015 17:00:14 | 49.54 | 47.64 | 1,197 | 0.27 | 0.37 | 65.5 |
| 5/1/2015 17:00:14 | 49.87 | 47.97 | 1,216 | 0.28 | 0.37 | 66.5 |
| 5/1/2015 17:00:14 | 50.20 | 48.30 | 1,216 | 0.28 | 0.37 | 66.5 |
| 5/1/2015 17:00:14 | 50.53 | 48.63 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 17:00:15 | 50.85 | 48.95 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 17:00:15 | 51.18 | 49.28 | 1,213 | 0.29 | 0.39 | 66.3 |
| 5/1/2015 17:00:25 | 51.51 | 49.61 | 15 | 3.05 | 0.44 | 0.8 |
| 5/1/2015 17:00:31 | 51.84 | 49.94 | 52 | 2.75 | 0.42 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 17:00:31 | 52.17 | 50.27 | 129 | 3.50 | 0.42 | 7.1 |
| 5/1/2015 | 17:00:32 | 52.49 | 50.59 | 226 | 2.66 | 0.42 | 12.4 |
| 5/1/2015 | 17:00:38 | 52.82 | 50.92 | 74 | 5.38 | 0.45 | 4.0 |
| 5/1/2015 | 17:00:41 | 53.15 | 51.25 | 88 | 3.03 | 0.42 | 4.8 |
| 5/1/2015 | 17:00:41 | 53.48 | 51.58 | 205 | 3.39 | 0.41 | 11.2 |
| 5/1/2015 | 17:00:42 | 53.81 | 51.91 | 307 | 3.24 | 0.42 | 16.8 |
| 5/1/2015 | 17:00:46 | 54.13 | 52.23 | 0 | 2.03 | 0.39 | 0.0 |
| 5/1/2015 | 17:00:46 | 54.46 | 52.56 | 153 | 2.42 | 0.41 | 8.4 |
| 5/1/2015 | 17:00:49 | 54.79 | 52.89 | 365 | 3.45 | 0.45 | 20.0 |
| 5/1/2015 | 17:00:55 | 55.12 | 53.22 | 50 | 3.04 | 0.46 | 2.7 |
| 5/1/2015 | 17:01:04 | 55.45 | 53.55 | 40 | 2.71 | 0.46 | 2.2 |
| 5/1/2015 | 17:01:12 | 55.77 | 53.87 | 43 | 2.64 | 0.46 | 2.4 |
| 5/1/2015 | 17:01:17 | 56.10 | 54.20 | 67 | 2.94 | 0.46 | 3.7 |
| 5/1/2015 | 17:01:23 | 56.43 | 54.53 | 59 | 3.39 | 0.46 | 3.2 |
| 5/1/2015 | 17:01:30 | 56.76 | 54.86 | 57 | 3.14 | 0.46 | 3.1 |
| 5/1/2015 | 17:01:31 | 56.88 | 54.98 | 63 | 3.08 | 0.46 | 3.4 |

## L1007 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:58:37

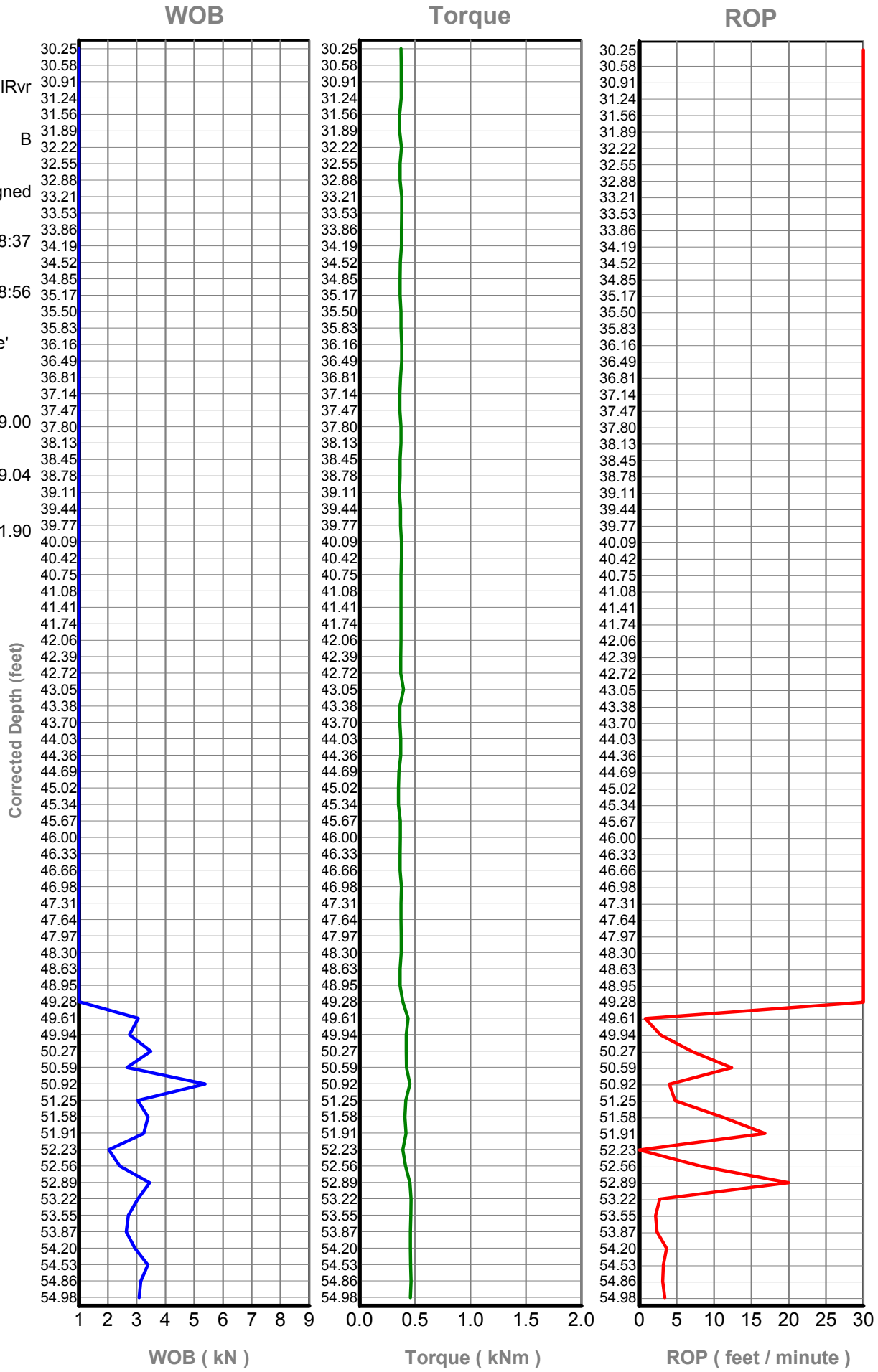
**End Date:**
5/1/2015 17:18:56

**Operator Note:**
'1.9 2.0 b Auto Complete'

**Northing:**
359,789.00

**Easting:**
241,819.04

**Tide (feet):**
1.90



## Hole: L1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 17:01:10 | 32.15 | 30.25 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 17:01:11 | 32.48 | 30.58 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 17:01:11 | 32.81 | 30.91 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 17:01:12 | 33.14 | 31.24 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 17:01:12 | 33.46 | 31.56 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 17:01:12 | 33.79 | 31.89 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 17:01:13 | 34.12 | 32.22 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 17:01:13 | 34.45 | 32.55 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 17:01:13 | 34.78 | 32.88 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:01:14 | 35.11 | 33.21 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:01:14 | 35.43 | 33.53 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:01:14 | 35.76 | 33.86 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 17:01:15 | 36.09 | 34.19 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:15 | 36.42 | 34.52 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:15 | 36.75 | 34.85 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 17:01:16 | 37.07 | 35.17 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 17:01:16 | 37.40 | 35.50 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:16 | 37.73 | 35.83 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:17 | 38.06 | 36.16 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:17 | 38.39 | 36.49 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:17 | 38.71 | 36.81 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:18 | 39.04 | 37.14 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:18 | 39.37 | 37.47 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:18 | 39.70 | 37.80 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:19 | 40.03 | 38.13 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:19 | 40.35 | 38.45 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:19 | 40.68 | 38.78 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:19 | 41.01 | 39.11 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:01:20 | 41.34 | 39.44 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:01:20 | 41.67 | 39.77 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 17:01:20 | 41.99 | 40.09 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:21 | 42.32 | 40.42 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:21 | 42.65 | 40.75 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:21 | 42.98 | 41.08 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:22 | 43.31 | 41.41 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:22 | 43.64 | 41.74 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:22 | 43.96 | 42.06 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:23 | 44.29 | 42.39 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:23 | 44.62 | 42.72 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:24 | 44.95 | 43.05 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:24 | 45.28 | 43.38 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:24 | 45.60 | 43.70 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:25 | 45.93 | 44.03 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:25 | 46.26 | 44.36 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 17:01:25 | 46.59 | 44.69 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:01:26 | 46.92 | 45.02 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:26 | 47.24 | 45.34 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 17:01:26 | 47.57 | 45.67 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:01:27 | 47.90 | 46.00 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 17:01:27 | 48.23 | 46.33 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 17:01:27 | 48.56 | 46.66 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:28 | 48.88 | 46.98 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 17:01:28 | 49.21 | 47.31 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:01:28 | 49.54 | 47.64 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 17:01:29 | 49.87 | 47.97 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 17:01:43 | 50.20 | 48.30 | 126 | 1.14 | 0.29 | 6.9 |
| 5/1/2015 17:01:44 | 50.53 | 48.63 | 259 | 1.14 | 0.29 | 14.2 |
| 5/1/2015 17:01:45 | 50.85 | 48.95 | 251 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 17:01:45 | 51.18 | 49.28 | 301 | 1.14 | 0.29 | 16.5 |
| 5/1/2015 17:01:47 | 51.51 | 49.61 | 443 | 1.14 | 0.29 | 24.2 |
| 5/1/2015 17:01:47 | 51.84 | 49.94 | 504 | 1.14 | 0.29 | 27.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 17:01:48 | 52.17 | 50.27 | 553 | 1.14 | 0.29 | 30.2 |
| 5/1/2015 17:01:48 | 52.49 | 50.59 | 564 | 1.14 | 0.29 | 30.9 |
| 5/1/2015 17:01:49 | 52.82 | 50.92 | 561 | 1.14 | 0.29 | 30.7 |
| 5/1/2015 17:01:50 | 53.15 | 51.25 | 561 | 1.14 | 0.29 | 30.7 |
| 5/1/2015 17:01:53 | 53.48 | 51.58 | 40 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 17:01:54 | 53.81 | 51.91 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 17:01:55 | 54.13 | 52.23 | 271 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 17:01:56 | 54.46 | 52.56 | 411 | 1.14 | 0.29 | 22.5 |
| 5/1/2015 17:01:57 | 54.79 | 52.89 | 358 | 1.14 | 0.29 | 19.6 |
| 5/1/2015 17:01:59 | 55.12 | 53.22 | 293 | 1.14 | 0.29 | 16.0 |
| 5/1/2015 17:02:02 | 55.45 | 53.55 | 110 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 17:02:09 | 55.77 | 53.87 | 99 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 17:02:12 | 56.10 | 54.20 | 99 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 17:02:16 | 56.43 | 54.53 | 111 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 17:02:18 | 56.76 | 54.86 | 143 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 17:02:20 | 57.03 | 55.13 | 110 | 1.14 | 0.29 | 6.0 |

## L1008 - Summary

**Pattern Number:**
Area L LANE8A

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 17:00:04

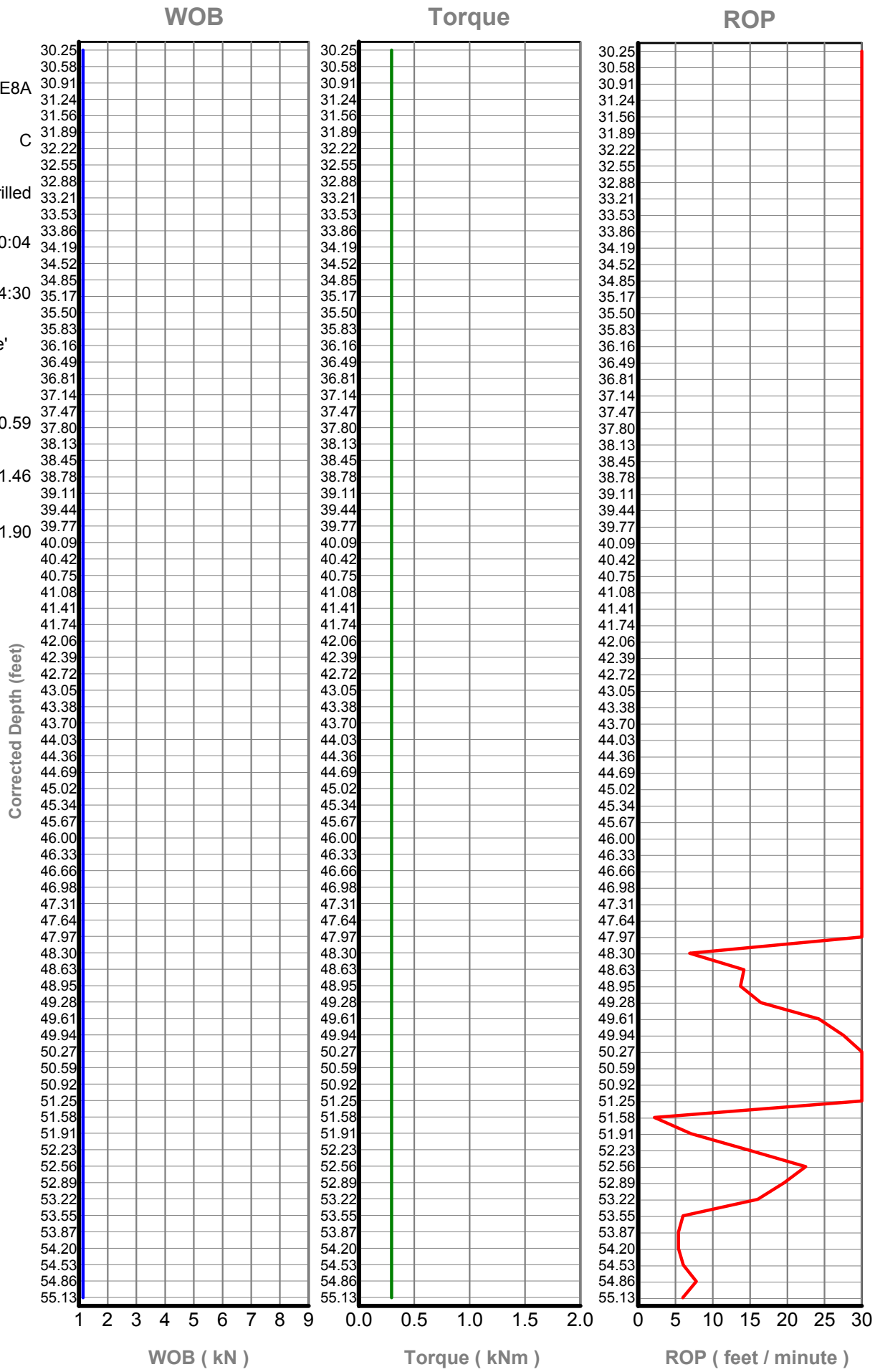
**End Date:**
5/1/2015 17:04:30

**Operator Note:**
'1.9 2.0 x Auto Complete'

**Northing:**
359,830.59

**Easting:**
241,881.46

**Tide (feet):**
1.90



## Hole: L1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:16:41 | 31.17 | 30.07 | 914 | 1.16 | 0.15 | 50.0 |
| 5/1/2015 18:16:41 | 31.50 | 30.40 | 907 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 18:16:42 | 31.82 | 30.72 | 907 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 18:16:42 | 32.15 | 31.05 | 926 | 1.17 | 0.16 | 50.6 |
| 5/1/2015 18:16:42 | 32.48 | 31.38 | 918 | 1.15 | 0.16 | 50.2 |
| 5/1/2015 18:16:43 | 32.81 | 31.71 | 918 | 1.16 | 0.16 | 50.2 |
| 5/1/2015 18:16:44 | 33.14 | 32.04 | 918 | 1.16 | 0.16 | 50.2 |
| 5/1/2015 18:16:44 | 33.46 | 32.36 | 943 | 1.17 | 0.16 | 51.6 |
| 5/1/2015 18:16:44 | 33.79 | 32.69 | 940 | 1.15 | 0.16 | 51.4 |
| 5/1/2015 18:16:45 | 34.12 | 33.02 | 945 | 1.18 | 0.16 | 51.7 |
| 5/1/2015 18:16:45 | 34.45 | 33.35 | 945 | 1.18 | 0.16 | 51.7 |
| 5/1/2015 18:16:45 | 34.78 | 33.68 | 936 | 1.17 | 0.16 | 51.2 |
| 5/1/2015 18:16:46 | 35.11 | 34.01 | 934 | 1.14 | 0.16 | 51.0 |
| 5/1/2015 18:16:46 | 35.43 | 34.33 | 920 | 1.16 | 0.16 | 50.3 |
| 5/1/2015 18:16:47 | 35.76 | 34.66 | 920 | 1.16 | 0.16 | 50.3 |
| 5/1/2015 18:16:47 | 36.09 | 34.99 | 923 | 1.17 | 0.16 | 50.5 |
| 5/1/2015 18:16:47 | 36.42 | 35.32 | 917 | 1.17 | 0.16 | 50.1 |
| 5/1/2015 18:16:48 | 36.75 | 35.65 | 926 | 1.15 | 0.16 | 50.6 |
| 5/1/2015 18:16:48 | 37.07 | 35.97 | 926 | 1.15 | 0.16 | 50.6 |
| 5/1/2015 18:16:48 | 37.40 | 36.30 | 923 | 1.17 | 0.16 | 50.5 |
| 5/1/2015 18:16:49 | 37.73 | 36.63 | 933 | 1.16 | 0.16 | 51.0 |
| 5/1/2015 18:16:49 | 38.06 | 36.96 | 925 | 1.16 | 0.16 | 50.6 |
| 5/1/2015 18:16:50 | 38.39 | 37.29 | 925 | 1.16 | 0.16 | 50.6 |
| 5/1/2015 18:16:50 | 38.71 | 37.61 | 928 | 1.16 | 0.16 | 50.7 |
| 5/1/2015 18:16:50 | 39.04 | 37.94 | 925 | 1.16 | 0.16 | 50.6 |
| 5/1/2015 18:16:51 | 39.37 | 38.27 | 928 | 1.16 | 0.16 | 50.7 |
| 5/1/2015 18:16:51 | 39.70 | 38.60 | 928 | 1.16 | 0.16 | 50.7 |
| 5/1/2015 18:16:51 | 40.03 | 38.93 | 920 | 1.11 | 0.16 | 50.3 |
| 5/1/2015 18:16:52 | 40.35 | 39.25 | 928 | 1.17 | 0.16 | 50.7 |
| 5/1/2015 18:16:52 | 40.68 | 39.58 | 922 | 1.17 | 0.16 | 50.4 |
| 5/1/2015 18:16:53 | 41.01 | 39.91 | 922 | 1.17 | 0.16 | 50.4 |
| 5/1/2015 18:16:53 | 41.34 | 40.24 | 919 | 1.16 | 0.16 | 50.3 |
| 5/1/2015 18:16:54 | 41.67 | 40.57 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 18:16:54 | 41.99 | 40.89 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 18:16:54 | 42.32 | 41.22 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 18:16:55 | 42.65 | 41.55 | 914 | 1.15 | 0.16 | 50.0 |
| 5/1/2015 18:16:55 | 42.98 | 41.88 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 18:16:56 | 43.31 | 42.21 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 18:16:56 | 43.64 | 42.54 | 906 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 18:16:56 | 43.96 | 42.86 | 909 | 1.16 | 0.16 | 49.7 |
| 5/1/2015 18:16:57 | 44.29 | 43.19 | 927 | 1.11 | 0.16 | 50.7 |
| 5/1/2015 18:16:57 | 44.62 | 43.52 | 927 | 1.11 | 0.16 | 50.7 |
| 5/1/2015 18:16:57 | 44.95 | 43.85 | 916 | 1.15 | 0.16 | 50.1 |
| 5/1/2015 18:16:58 | 45.28 | 44.18 | 916 | 1.18 | 0.16 | 50.1 |
| 5/1/2015 18:16:58 | 45.60 | 44.50 | 916 | 1.16 | 0.16 | 50.1 |
| 5/1/2015 18:16:59 | 45.93 | 44.83 | 916 | 1.16 | 0.16 | 50.1 |
| 5/1/2015 18:16:59 | 46.26 | 45.16 | 913 | 1.17 | 0.16 | 49.9 |
| 5/1/2015 18:16:59 | 46.59 | 45.49 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 18:17:00 | 46.92 | 45.82 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 18:17:00 | 47.24 | 46.14 | 913 | 1.17 | 0.16 | 50.0 |
| 5/1/2015 18:17:01 | 47.57 | 46.47 | 913 | 1.17 | 0.16 | 50.0 |
| 5/1/2015 18:17:01 | 47.90 | 46.80 | 908 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 18:17:01 | 48.23 | 47.13 | 908 | 1.17 | 0.16 | 49.6 |
| 5/1/2015 18:17:02 | 48.56 | 47.46 | 911 | 1.19 | 0.16 | 49.8 |
| 5/1/2015 18:17:02 | 48.88 | 47.78 | 911 | 1.19 | 0.16 | 49.8 |
| 5/1/2015 18:17:02 | 49.21 | 48.11 | 916 | 1.25 | 0.16 | 50.1 |
| 5/1/2015 18:17:08 | 49.54 | 48.44 | 17 | 1.17 | 0.96 | 0.9 |
| 5/1/2015 18:17:20 | 49.87 | 48.77 | 64 | 1.19 | 1.01 | 3.5 |
| 5/1/2015 18:17:21 | 50.20 | 49.10 | 180 | 1.18 | 0.93 | 9.8 |
| 5/1/2015 18:17:23 | 50.53 | 49.43 | 230 | 1.15 | 0.95 | 12.6 |
| 5/1/2015 18:17:25 | 50.85 | 49.75 | 188 | 1.18 | 0.98 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 18:17:27 | 51.18 | 50.08 | 182 | 1.19 | 0.99 | 10.0 |
| 5/1/2015 | 18:17:30 | 51.51 | 50.41 | 151 | 1.19 | 0.94 | 8.3 |
| 5/1/2015 | 18:17:32 | 51.84 | 50.74 | 144 | 1.13 | 0.94 | 7.9 |
| 5/1/2015 | 18:17:34 | 52.17 | 51.07 | 165 | 1.19 | 0.95 | 9.0 |
| 5/1/2015 | 18:17:37 | 52.49 | 51.39 | 153 | 1.18 | 0.98 | 8.4 |
| 5/1/2015 | 18:17:39 | 52.82 | 51.72 | 179 | 1.18 | 0.93 | 9.8 |
| 5/1/2015 | 18:17:41 | 53.15 | 52.05 | 182 | 1.19 | 0.96 | 10.0 |
| 5/1/2015 | 18:17:43 | 53.48 | 52.38 | 159 | 1.19 | 0.98 | 8.7 |
| 5/1/2015 | 18:17:46 | 53.81 | 52.71 | 147 | 1.18 | 0.96 | 8.1 |
| 5/1/2015 | 18:17:48 | 54.13 | 53.03 | 147 | 1.19 | 0.93 | 8.1 |
| 5/1/2015 | 18:17:50 | 54.46 | 53.36 | 137 | 1.18 | 0.91 | 7.5 |
| 5/1/2015 | 18:17:52 | 54.79 | 53.69 | 148 | 1.17 | 0.94 | 8.1 |
| 5/1/2015 | 18:17:55 | 55.12 | 54.02 | 145 | 1.18 | 0.91 | 7.9 |
| 5/1/2015 | 18:17:58 | 55.45 | 54.35 | 130 | 1.17 | 0.91 | 7.1 |
| 5/1/2015 | 18:18:00 | 55.77 | 54.67 | 136 | 1.18 | 0.92 | 7.4 |
| 5/1/2015 | 18:18:03 | 56.10 | 55.00 | 125 | 1.17 | 0.91 | 6.8 |
| 5/1/2015 | 18:18:04 | 56.19 | 55.09 | 114 | 0.62 | 0.86 | 6.3 |

## L1009 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 18:15:00

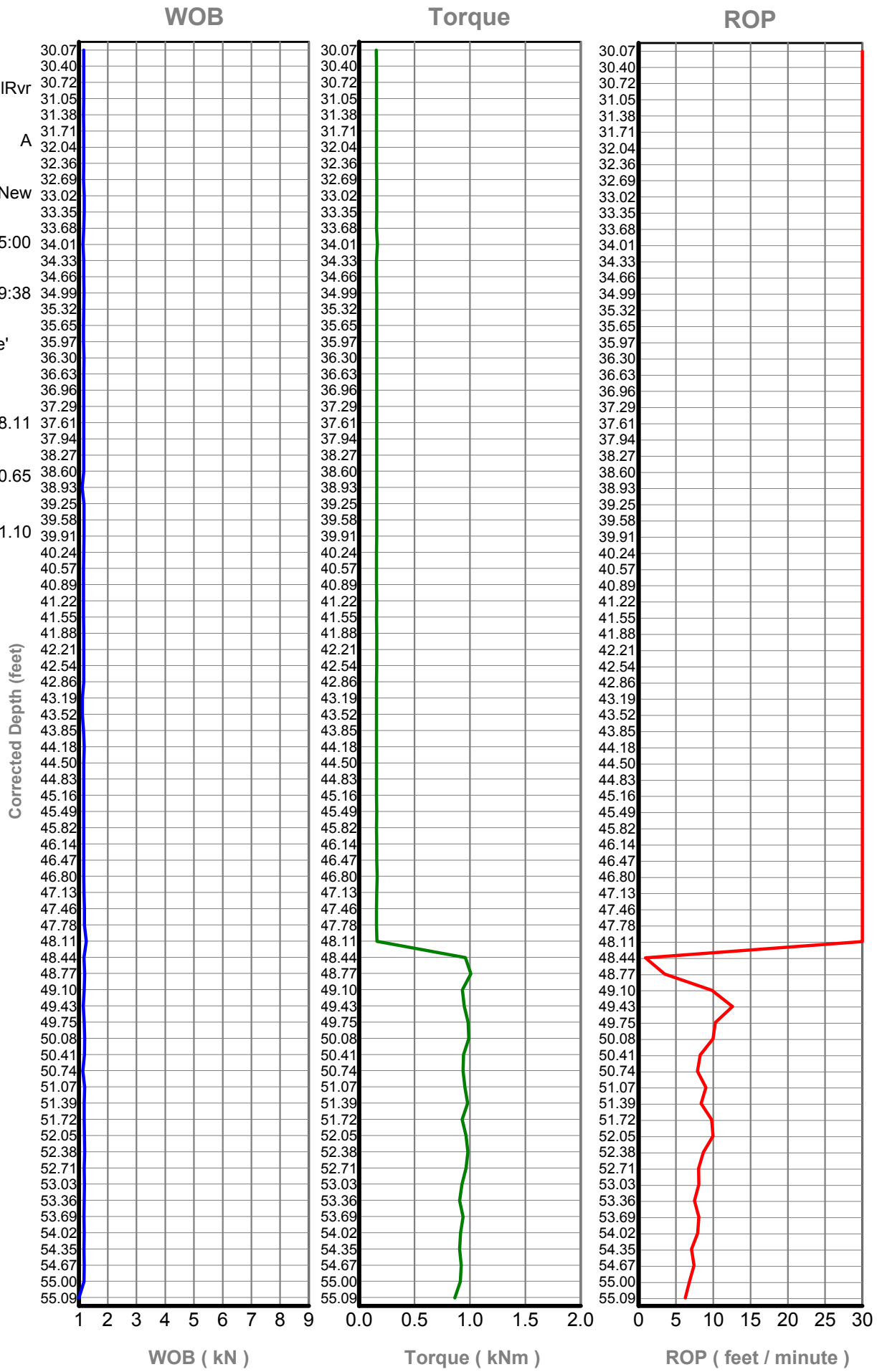
**End Date:**
5/1/2015 18:19:38

**Operator Note:**
'1.1 1.1 a Auto Complete'

**Northing:**
359,638.11

**Easting:**
241,570.65

**Tide (feet):**
1.10



## Hole: L101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:03:57 | 31.17 | 30.07 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 6:03:58 | 31.50 | 30.40 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 6:03:58 | 31.82 | 30.72 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 6:03:58 | 32.15 | 31.05 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 6:03:59 | 32.48 | 31.38 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 6:03:59 | 32.81 | 31.71 | 1,138 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 6:03:59 | 33.14 | 32.04 | 1,138 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 6:03:59 | 33.46 | 32.36 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 6:04:00 | 33.79 | 32.69 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 6:04:00 | 34.12 | 33.02 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 6:04:00 | 34.45 | 33.35 | 1,139 | 0.34 | 0.37 | 62.3 |
| 5/1/2015 6:04:01 | 34.78 | 33.68 | 1,139 | 0.34 | 0.37 | 62.3 |
| 5/1/2015 6:04:01 | 35.11 | 34.01 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:04:02 | 35.43 | 34.33 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 6:04:02 | 35.76 | 34.66 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 6:04:02 | 36.09 | 34.99 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:04:03 | 36.42 | 35.32 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:04:03 | 36.75 | 35.65 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 6:04:03 | 37.07 | 35.97 | 1,127 | 0.32 | 0.37 | 61.6 |
| 5/1/2015 6:04:04 | 37.40 | 36.30 | 1,127 | 0.32 | 0.37 | 61.6 |
| 5/1/2015 6:04:04 | 37.73 | 36.63 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 6:04:04 | 38.06 | 36.96 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 6:04:04 | 38.39 | 37.29 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 6:04:05 | 38.71 | 37.61 | 1,136 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 6:04:05 | 39.04 | 37.94 | 1,136 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 6:04:05 | 39.37 | 38.27 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 6:04:06 | 39.70 | 38.60 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 6:04:06 | 40.03 | 38.93 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:04:06 | 40.35 | 39.25 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 6:04:07 | 40.68 | 39.58 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 6:04:07 | 41.01 | 39.91 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 6:04:07 | 41.34 | 40.24 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 6:04:07 | 41.67 | 40.57 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:04:08 | 41.99 | 40.89 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:04:08 | 42.32 | 41.22 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:04:08 | 42.65 | 41.55 | 1,132 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 6:04:09 | 42.98 | 41.88 | 1,132 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 6:04:09 | 43.31 | 42.21 | 1,145 | 0.05 | 0.37 | 62.6 |
| 5/1/2015 6:04:09 | 43.64 | 42.54 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 6:04:10 | 43.96 | 42.86 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 6:04:10 | 44.29 | 43.19 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/1/2015 6:04:10 | 44.62 | 43.52 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/1/2015 6:04:10 | 44.95 | 43.85 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/1/2015 6:04:11 | 45.28 | 44.18 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 6:04:11 | 45.60 | 44.50 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 6:04:12 | 45.93 | 44.83 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/1/2015 6:04:12 | 46.26 | 45.16 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/1/2015 6:04:12 | 46.59 | 45.49 | 1,141 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 6:04:13 | 46.92 | 45.82 | 1,131 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 6:04:13 | 47.24 | 46.14 | 1,131 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 6:04:13 | 47.57 | 46.47 | 1,131 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 6:04:14 | 47.90 | 46.80 | 1,131 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 6:04:14 | 48.23 | 47.13 | 1,141 | 0.33 | 0.38 | 62.4 |
| 5/1/2015 6:04:14 | 48.56 | 47.46 | 1,143 | 0.30 | 0.45 | 62.5 |
| 5/1/2015 6:04:18 | 48.88 | 47.78 | 1 | 3.77 | 0.44 | 0.1 |
| 5/1/2015 6:04:19 | 49.21 | 48.11 | 155 | 3.20 | 0.44 | 8.5 |
| 5/1/2015 6:04:24 | 49.54 | 48.44 | 106 | 3.60 | 0.46 | 5.8 |
| 5/1/2015 6:04:26 | 49.87 | 48.77 | 159 | 3.41 | 0.44 | 8.7 |
| 5/1/2015 6:04:28 | 50.20 | 49.10 | 182 | 3.27 | 0.46 | 10.0 |
| 5/1/2015 6:04:29 | 50.53 | 49.43 | 187 | 3.77 | 0.46 | 10.2 |
| 5/1/2015 6:04:31 | 50.85 | 49.75 | 197 | 3.67 | 0.45 | 10.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:04:33 | 51.18 | 50.08 | 190 | 3.54 | 0.45 | 10.4 |
| 5/1/2015 | 6:04:35 | 51.51 | 50.41 | 186 | 3.62 | 0.46 | 10.2 |
| 5/1/2015 | 6:04:37 | 51.84 | 50.74 | 173 | 3.23 | 0.45 | 9.5 |
| 5/1/2015 | 6:04:39 | 52.17 | 51.07 | 194 | 3.38 | 0.45 | 10.6 |
| 5/1/2015 | 6:04:41 | 52.49 | 51.39 | 191 | 3.18 | 0.45 | 10.4 |
| 5/1/2015 | 6:04:46 | 52.82 | 51.72 | 37 | 3.03 | 0.45 | 2.0 |
| 5/1/2015 | 6:04:48 | 53.15 | 52.05 | 200 | 3.23 | 0.44 | 10.9 |
| 5/1/2015 | 6:04:50 | 53.48 | 52.38 | 182 | 3.06 | 0.45 | 9.9 |
| 5/1/2015 | 6:04:52 | 53.81 | 52.71 | 159 | 3.13 | 0.45 | 8.7 |
| 5/1/2015 | 6:04:54 | 54.13 | 53.03 | 176 | 3.39 | 0.45 | 9.6 |
| 5/1/2015 | 6:04:56 | 54.46 | 53.36 | 202 | 3.41 | 0.45 | 11.1 |
| 5/1/2015 | 6:04:57 | 54.79 | 53.69 | 198 | 3.25 | 0.42 | 10.8 |
| 5/1/2015 | 6:04:58 | 55.12 | 54.02 | 288 | 3.11 | 0.44 | 15.8 |
| 5/1/2015 | 6:05:00 | 55.45 | 54.35 | 330 | 3.13 | 0.45 | 18.1 |
| 5/1/2015 | 6:05:01 | 55.77 | 54.67 | 266 | 3.44 | 0.45 | 14.5 |
| 5/1/2015 | 6:05:04 | 56.10 | 55.00 | 126 | 3.09 | 0.44 | 6.9 |
| 5/1/2015 | 6:05:05 | 56.31 | 55.21 | 165 | 3.24 | 0.46 | 9.0 |

## L101 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:02:31

**End Date:**
5/1/2015 6:06:38

**Operator Note:**
'1.1 1.2b Auto Complete'

**Northing:**
359,843.30

**Easting:**
242,320.00

**Tide (feet):**
1.10



## Hole: L1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:17:02 | 31.17 | 30.07 | 1,172 | 0.26 | 0.36 | 64.1 |
| 5/1/2015 18:17:02 | 31.50 | 30.40 | 1,169 | 0.28 | 0.38 | 63.9 |
| 5/1/2015 18:17:03 | 31.82 | 30.72 | 1,169 | 0.28 | 0.38 | 63.9 |
| 5/1/2015 18:17:03 | 32.15 | 31.05 | 1,172 | 0.28 | 0.37 | 64.1 |
| 5/1/2015 18:17:03 | 32.48 | 31.38 | 1,174 | 0.28 | 0.36 | 64.2 |
| 5/1/2015 18:17:04 | 32.81 | 31.71 | 1,174 | 0.28 | 0.36 | 64.2 |
| 5/1/2015 18:17:04 | 33.14 | 32.04 | 1,184 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 18:17:04 | 33.46 | 32.36 | 1,184 | 0.28 | 0.38 | 64.8 |
| 5/1/2015 18:17:04 | 33.79 | 32.69 | 1,177 | 0.28 | 0.37 | 64.3 |
| 5/1/2015 18:17:05 | 34.12 | 33.02 | 1,182 | 0.28 | 0.38 | 64.7 |
| 5/1/2015 18:17:05 | 34.45 | 33.35 | 1,182 | 0.28 | 0.38 | 64.7 |
| 5/1/2015 18:17:05 | 34.78 | 33.68 | 1,179 | 0.28 | 0.37 | 64.5 |
| 5/1/2015 18:17:06 | 35.11 | 34.01 | 1,179 | 0.28 | 0.37 | 64.5 |
| 5/1/2015 18:17:06 | 35.43 | 34.33 | 1,179 | 0.28 | 0.37 | 64.5 |
| 5/1/2015 18:17:06 | 35.76 | 34.66 | 1,179 | 0.28 | 0.37 | 64.5 |
| 5/1/2015 18:17:06 | 36.09 | 34.99 | 1,166 | 0.29 | 0.37 | 63.8 |
| 5/1/2015 18:17:07 | 36.42 | 35.32 | 1,174 | 0.28 | 0.36 | 64.2 |
| 5/1/2015 18:17:07 | 36.75 | 35.65 | 1,174 | 0.28 | 0.36 | 64.2 |
| 5/1/2015 18:17:07 | 37.07 | 35.97 | 1,174 | 0.28 | 0.38 | 64.2 |
| 5/1/2015 18:17:08 | 37.40 | 36.30 | 1,174 | 0.28 | 0.38 | 64.2 |
| 5/1/2015 18:17:08 | 37.73 | 36.63 | 1,174 | 0.28 | 0.36 | 64.2 |
| 5/1/2015 18:17:08 | 38.06 | 36.96 | 1,170 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 18:17:09 | 38.39 | 37.29 | 1,170 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 18:17:09 | 38.71 | 37.61 | 1,186 | 0.29 | 0.37 | 64.8 |
| 5/1/2015 18:17:10 | 39.04 | 37.94 | 1,186 | 0.29 | 0.37 | 64.8 |
| 5/1/2015 18:17:10 | 39.37 | 38.27 | 1,183 | 0.29 | 0.37 | 64.7 |
| 5/1/2015 18:17:10 | 39.70 | 38.60 | 1,183 | 0.29 | 0.37 | 64.7 |
| 5/1/2015 18:17:10 | 40.03 | 38.93 | 1,183 | 0.28 | 0.38 | 64.7 |
| 5/1/2015 18:17:11 | 40.35 | 39.25 | 1,178 | 0.28 | 0.36 | 64.4 |
| 5/1/2015 18:17:11 | 40.68 | 39.58 | 1,178 | 0.28 | 0.36 | 64.4 |
| 5/1/2015 18:17:11 | 41.01 | 39.91 | 1,191 | 0.28 | 0.36 | 65.1 |
| 5/1/2015 18:17:12 | 41.34 | 40.24 | 1,191 | 0.28 | 0.36 | 65.1 |
| 5/1/2015 18:17:12 | 41.67 | 40.57 | 1,188 | 0.29 | 0.38 | 65.0 |
| 5/1/2015 18:17:12 | 41.99 | 40.89 | 1,188 | 0.29 | 0.38 | 65.0 |
| 5/1/2015 18:17:12 | 42.32 | 41.22 | 1,191 | 0.28 | 0.37 | 65.1 |
| 5/1/2015 18:17:13 | 42.65 | 41.55 | 1,172 | 0.28 | 0.36 | 64.1 |
| 5/1/2015 18:17:13 | 42.98 | 41.88 | 1,172 | 0.28 | 0.36 | 64.1 |
| 5/1/2015 18:17:13 | 43.31 | 42.21 | 1,172 | 0.28 | 0.36 | 64.1 |
| 5/1/2015 18:17:14 | 43.64 | 42.54 | 1,172 | 0.28 | 0.36 | 64.1 |
| 5/1/2015 18:17:14 | 43.96 | 42.86 | 1,191 | 0.28 | 0.38 | 65.1 |
| 5/1/2015 18:17:14 | 44.29 | 43.19 | 1,191 | 0.28 | 0.38 | 65.1 |
| 5/1/2015 18:17:14 | 44.62 | 43.52 | 1,185 | 0.35 | 0.37 | 64.8 |
| 5/1/2015 18:17:15 | 44.95 | 43.85 | 1,176 | 0.36 | 0.38 | 64.3 |
| 5/1/2015 18:17:15 | 45.28 | 44.18 | 1,176 | 0.36 | 0.38 | 64.3 |
| 5/1/2015 18:17:15 | 45.60 | 44.50 | 1,159 | 0.37 | 0.39 | 63.4 |
| 5/1/2015 18:17:16 | 45.93 | 44.83 | 1,159 | 0.37 | 0.39 | 63.4 |
| 5/1/2015 18:17:16 | 46.26 | 45.16 | 1,189 | 0.37 | 0.39 | 65.0 |
| 5/1/2015 18:17:16 | 46.59 | 45.49 | 1,174 | 0.37 | 0.38 | 64.2 |
| 5/1/2015 18:17:17 | 46.92 | 45.82 | 1,174 | 0.37 | 0.38 | 64.2 |
| 5/1/2015 18:17:17 | 47.24 | 46.14 | 1,172 | 0.38 | 0.38 | 64.1 |
| 5/1/2015 18:17:17 | 47.57 | 46.47 | 1,172 | 0.38 | 0.38 | 64.1 |
| 5/1/2015 18:17:17 | 47.90 | 46.80 | 1,174 | 0.38 | 0.39 | 64.2 |
| 5/1/2015 18:17:18 | 48.23 | 47.13 | 1,185 | 0.38 | 0.38 | 64.8 |
| 5/1/2015 18:17:18 | 48.56 | 47.46 | 1,185 | 0.38 | 0.38 | 64.8 |
| 5/1/2015 18:17:18 | 48.88 | 47.78 | 1,171 | 0.38 | 0.39 | 64.0 |
| 5/1/2015 18:17:19 | 49.21 | 48.11 | 1,171 | 0.38 | 0.39 | 64.0 |
| 5/1/2015 18:17:19 | 49.54 | 48.44 | 1,158 | 0.38 | 0.40 | 63.3 |
| 5/1/2015 18:17:20 | 49.87 | 48.77 | 1,158 | 0.38 | 0.40 | 63.3 |
| 5/1/2015 18:17:20 | 50.20 | 49.10 | 1,156 | 0.38 | 0.39 | 63.2 |
| 5/1/2015 18:17:20 | 50.53 | 49.43 | 1,139 | 0.38 | 0.40 | 62.3 |
| 5/1/2015 18:17:21 | 50.85 | 49.75 | 1,098 | 0.36 | 0.44 | 60.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 18:17:21 | 51.18 | 50.08 | 961 | 0.36 | 0.45 | 52.5 |
| 5/1/2015 | 18:17:44 | 51.51 | 50.41 | 101 | 3.18 | 0.44 | 5.5 |
| 5/1/2015 | 18:17:46 | 51.84 | 50.74 | 199 | 7.72 | 0.46 | 10.9 |
| 5/1/2015 | 18:17:50 | 52.17 | 51.07 | 90 | 3.91 | 0.42 | 4.9 |
| 5/1/2015 | 18:17:58 | 52.49 | 51.39 | 11 | 3.96 | 0.45 | 0.6 |
| 5/1/2015 | 18:18:03 | 52.82 | 51.72 | 80 | 3.64 | 0.44 | 4.4 |
| 5/1/2015 | 18:18:07 | 53.15 | 52.05 | 75 | 5.49 | 0.44 | 4.1 |
| 5/1/2015 | 18:18:08 | 53.48 | 52.38 | 226 | 3.07 | 0.44 | 12.4 |
| 5/1/2015 | 18:18:20 | 53.81 | 52.71 | 69 | 2.88 | 0.46 | 3.7 |
| 5/1/2015 | 18:18:27 | 54.13 | 53.03 | 46 | 2.82 | 0.46 | 2.5 |
| 5/1/2015 | 18:18:35 | 54.46 | 53.36 | 56 | 2.75 | 0.46 | 3.1 |
| 5/1/2015 | 18:18:39 | 54.79 | 53.69 | 75 | 3.35 | 0.45 | 4.1 |
| 5/1/2015 | 18:18:43 | 55.12 | 54.02 | 106 | 3.12 | 0.46 | 5.8 |
| 5/1/2015 | 18:18:49 | 55.45 | 54.35 | 55 | 2.90 | 0.46 | 3.0 |
| 5/1/2015 | 18:18:58 | 55.77 | 54.67 | 37 | 2.75 | 0.46 | 2.0 |
| 5/1/2015 | 18:19:06 | 56.10 | 55.00 | 49 | 3.02 | 0.47 | 2.7 |
| 5/1/2015 | 18:19:07 | 56.16 | 55.06 | 49 | 3.28 | 0.45 | 2.7 |

## L1010 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 18:14:58

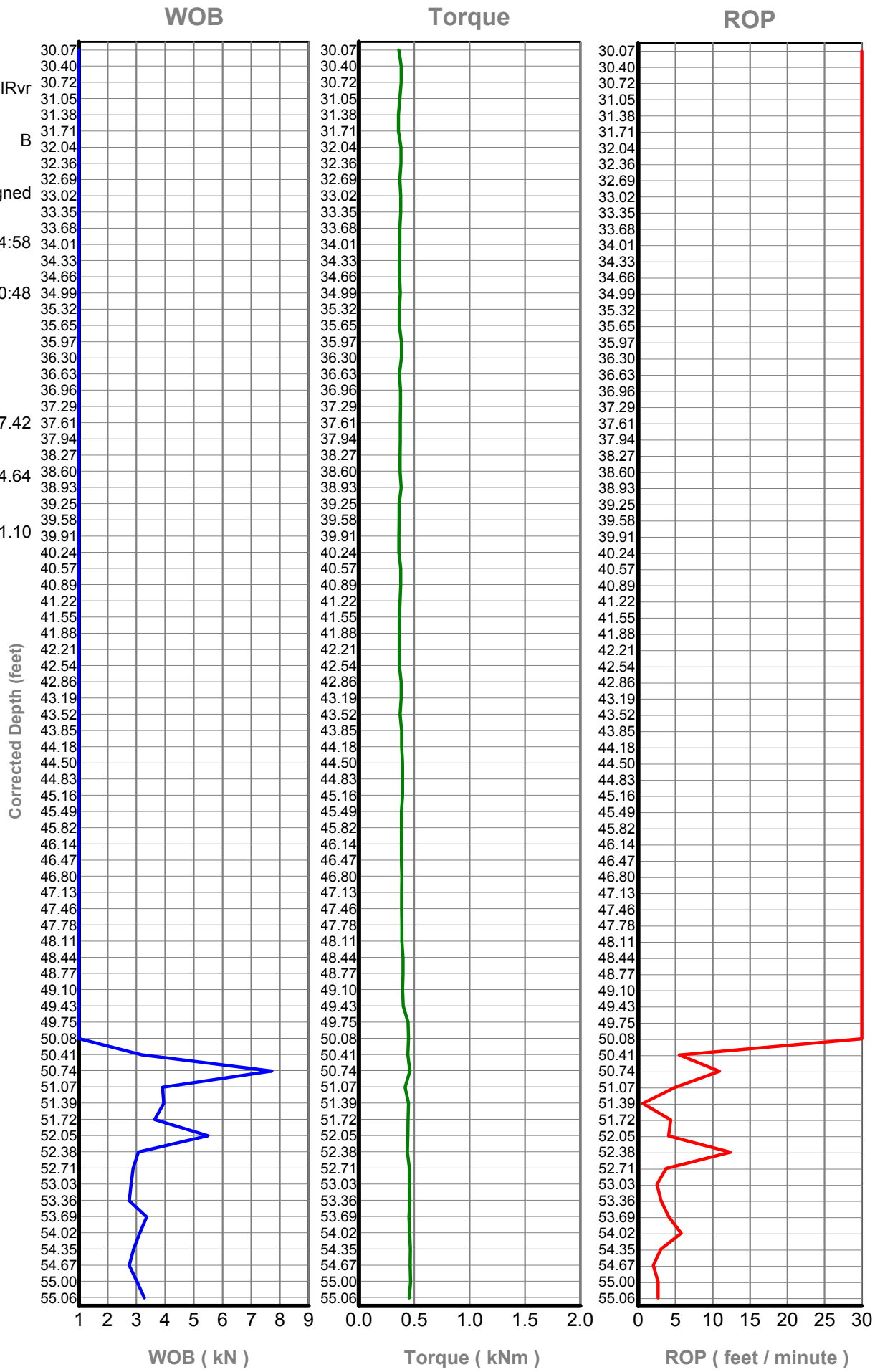
**End Date:**
5/1/2015 18:20:48

**Operator Note:**
'1.1 1.1 b Rock @ 55"

**Northing:**
359,677.42

**Easting:**
241,634.64

**Tide (feet):**
1.10



## Hole: L1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:28:46 | 31.17 | 30.07 | 1,133 | 1.14 | 0.29 | 61.9 |
| 5/1/2015 18:28:46 | 31.50 | 30.40 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:47 | 31.82 | 30.72 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:47 | 32.15 | 31.05 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/1/2015 18:28:47 | 32.48 | 31.38 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/1/2015 18:28:47 | 32.81 | 31.71 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/1/2015 18:28:48 | 33.14 | 32.04 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/1/2015 18:28:48 | 33.46 | 32.36 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/1/2015 18:28:48 | 33.79 | 32.69 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/1/2015 18:28:49 | 34.12 | 33.02 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/1/2015 18:28:49 | 34.45 | 33.35 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/1/2015 18:28:49 | 34.78 | 33.68 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:50 | 35.11 | 34.01 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:50 | 35.43 | 34.33 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:50 | 35.76 | 34.66 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:51 | 36.09 | 34.99 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:51 | 36.42 | 35.32 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:51 | 36.75 | 35.65 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:51 | 37.07 | 35.97 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:52 | 37.40 | 36.30 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:52 | 37.73 | 36.63 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 18:28:52 | 38.06 | 36.96 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/1/2015 18:28:53 | 38.39 | 37.29 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/1/2015 18:28:53 | 38.71 | 37.61 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 18:28:53 | 39.04 | 37.94 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 18:28:54 | 39.37 | 38.27 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 18:28:54 | 39.70 | 38.60 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/1/2015 18:28:54 | 40.03 | 38.93 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 18:28:55 | 40.35 | 39.25 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 18:28:55 | 40.68 | 39.58 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 18:28:56 | 41.01 | 39.91 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 18:28:56 | 41.34 | 40.24 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:28:56 | 41.67 | 40.57 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:57 | 41.99 | 40.89 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 18:28:57 | 42.32 | 41.22 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 18:28:57 | 42.65 | 41.55 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:28:58 | 42.98 | 41.88 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:28:58 | 43.31 | 42.21 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 18:28:58 | 43.64 | 42.54 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 18:28:58 | 43.96 | 42.86 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:28:59 | 44.29 | 43.19 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 18:28:59 | 44.62 | 43.52 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 18:28:59 | 44.95 | 43.85 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:29:00 | 45.28 | 44.18 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 18:29:00 | 45.60 | 44.50 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 18:29:00 | 45.93 | 44.83 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:29:01 | 46.26 | 45.16 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:29:01 | 46.59 | 45.49 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 18:29:01 | 46.92 | 45.82 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 18:29:02 | 47.24 | 46.14 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 18:29:02 | 47.57 | 46.47 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 18:29:02 | 47.90 | 46.80 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 18:29:03 | 48.23 | 47.13 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 18:29:28 | 48.56 | 47.46 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 18:29:28 | 48.88 | 47.78 | 91 | 1.14 | 0.29 | 5.0 |
| 5/1/2015 18:29:30 | 49.21 | 48.11 | 272 | 1.14 | 0.29 | 14.9 |
| 5/1/2015 18:29:44 | 49.54 | 48.44 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 18:29:55 | 49.87 | 48.77 | 33 | 1.14 | 0.29 | 1.8 |
| 5/1/2015 18:30:09 | 50.20 | 49.10 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 18:30:19 | 50.53 | 49.43 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 18:30:28 | 50.85 | 49.75 | 35 | 1.14 | 0.29 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 18:30:37 | 51.18 | 50.08 | 37 | 1.14 | 0.29 | 2.0 |
| 5/1/2015 | 18:30:41 | 51.32 | 50.22 | 37 | 1.14 | 0.29 | 2.0 |

## L1011 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 18:27:45

**End Date:**
5/1/2015 18:32:22

**Operator Note:**
'1.1 Auto Complete'

**Northing:**
359,716.34

**Easting:**
241,698.63

**Tide (feet):**
1.10



## Hole: L1012 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:14:40 | 33.79 | 30.09 | 714 | 1.18 | 0.22 | 39.0 |
| 5/1/2015 20:14:41 | 34.12 | 30.42 | 714 | 1.18 | 0.22 | 39.0 |
| 5/1/2015 20:14:41 | 34.45 | 30.75 | 717 | 1.17 | 0.22 | 39.2 |
| 5/1/2015 20:14:42 | 34.78 | 31.08 | 721 | 1.19 | 0.22 | 39.4 |
| 5/1/2015 20:14:42 | 35.11 | 31.41 | 714 | 1.17 | 0.22 | 39.0 |
| 5/1/2015 20:14:43 | 35.43 | 31.73 | 717 | 1.15 | 0.22 | 39.2 |
| 5/1/2015 20:14:43 | 35.76 | 32.06 | 713 | 1.16 | 0.22 | 39.0 |
| 5/1/2015 20:14:44 | 36.09 | 32.39 | 717 | 1.20 | 0.22 | 39.2 |
| 5/1/2015 20:14:44 | 36.42 | 32.72 | 710 | 1.17 | 0.22 | 38.8 |
| 5/1/2015 20:14:45 | 36.75 | 33.05 | 710 | 1.17 | 0.22 | 38.8 |
| 5/1/2015 20:14:45 | 37.07 | 33.37 | 717 | 1.17 | 0.22 | 39.2 |
| 5/1/2015 20:14:45 | 37.40 | 33.70 | 714 | 1.17 | 0.22 | 39.0 |
| 5/1/2015 20:14:46 | 37.73 | 34.03 | 721 | 1.18 | 0.22 | 39.4 |
| 5/1/2015 20:14:46 | 38.06 | 34.36 | 717 | 1.18 | 0.22 | 39.2 |
| 5/1/2015 20:14:47 | 38.39 | 34.69 | 721 | 1.19 | 0.22 | 39.4 |
| 5/1/2015 20:14:47 | 38.71 | 35.01 | 717 | 1.17 | 0.22 | 39.2 |
| 5/1/2015 20:14:48 | 39.04 | 35.34 | 720 | 1.17 | 0.22 | 39.4 |
| 5/1/2015 20:14:49 | 39.37 | 35.67 | 720 | 1.18 | 0.22 | 39.4 |
| 5/1/2015 20:14:49 | 39.70 | 36.00 | 717 | 1.17 | 0.22 | 39.2 |
| 5/1/2015 20:14:50 | 40.03 | 36.33 | 713 | 1.17 | 0.22 | 39.0 |
| 5/1/2015 20:14:50 | 40.35 | 36.65 | 717 | 1.17 | 0.22 | 39.2 |
| 5/1/2015 20:14:51 | 40.68 | 36.98 | 714 | 1.18 | 0.22 | 39.0 |
| 5/1/2015 20:14:51 | 41.01 | 37.31 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:52 | 41.34 | 37.64 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:14:52 | 41.67 | 37.97 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:53 | 41.99 | 38.29 | 708 | 1.18 | 0.22 | 38.7 |
| 5/1/2015 20:14:53 | 42.32 | 38.62 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:14:54 | 42.65 | 38.95 | 704 | 1.17 | 0.22 | 38.5 |
| 5/1/2015 20:14:54 | 42.98 | 39.28 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:55 | 43.31 | 39.61 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:55 | 43.64 | 39.94 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:56 | 43.96 | 40.26 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:56 | 44.29 | 40.59 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:57 | 44.62 | 40.92 | 711 | 1.17 | 0.22 | 38.9 |
| 5/1/2015 20:14:57 | 44.95 | 41.25 | 708 | 1.18 | 0.22 | 38.7 |
| 5/1/2015 20:14:58 | 45.28 | 41.58 | 708 | 1.18 | 0.22 | 38.7 |
| 5/1/2015 20:14:58 | 45.60 | 41.90 | 704 | 1.18 | 0.22 | 38.5 |
| 5/1/2015 20:14:58 | 45.93 | 42.23 | 708 | 1.17 | 0.23 | 38.7 |
| 5/1/2015 20:14:59 | 46.26 | 42.56 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:15:00 | 46.59 | 42.89 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:15:00 | 46.92 | 43.22 | 705 | 1.17 | 0.22 | 38.6 |
| 5/1/2015 20:15:01 | 47.24 | 43.54 | 708 | 1.16 | 0.22 | 38.7 |
| 5/1/2015 20:15:01 | 47.57 | 43.87 | 705 | 1.17 | 0.22 | 38.6 |
| 5/1/2015 20:15:02 | 47.90 | 44.20 | 705 | 1.17 | 0.22 | 38.6 |
| 5/1/2015 20:15:02 | 48.23 | 44.53 | 701 | 1.17 | 0.22 | 38.3 |
| 5/1/2015 20:15:03 | 48.56 | 44.86 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:15:03 | 48.88 | 45.18 | 705 | 1.19 | 0.22 | 38.6 |
| 5/1/2015 20:15:04 | 49.21 | 45.51 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:15:04 | 49.54 | 45.84 | 708 | 1.18 | 0.22 | 38.7 |
| 5/1/2015 20:15:05 | 49.87 | 46.17 | 708 | 1.17 | 0.22 | 38.7 |
| 5/1/2015 20:15:05 | 50.20 | 46.50 | 700 | 1.17 | 0.22 | 38.3 |
| 5/1/2015 20:15:06 | 50.53 | 46.83 | 709 | 1.17 | 0.22 | 38.8 |
| 5/1/2015 20:15:06 | 50.85 | 47.15 | 702 | 1.18 | 0.22 | 38.4 |
| 5/1/2015 20:15:07 | 51.18 | 47.48 | 706 | 1.17 | 0.22 | 38.6 |
| 5/1/2015 20:15:07 | 51.51 | 47.81 | 706 | 1.19 | 0.22 | 38.6 |
| 5/1/2015 20:15:08 | 51.84 | 48.14 | 711 | 1.19 | 0.22 | 38.9 |
| 5/1/2015 20:15:08 | 52.17 | 48.47 | 694 | 1.18 | 0.22 | 37.9 |
| 5/1/2015 20:15:09 | 52.49 | 48.79 | 698 | 1.17 | 0.22 | 38.2 |
| 5/1/2015 20:15:10 | 52.82 | 49.12 | 685 | 1.18 | 0.22 | 37.5 |
| 5/1/2015 20:15:10 | 53.15 | 49.45 | 677 | 1.18 | 0.22 | 37.0 |
| 5/1/2015 20:15:11 | 53.48 | 49.78 | 664 | 1.18 | 0.22 | 36.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 20:15:11 | 53.81 | 50.11 | 668 | 1.17 | 0.22 | 36.5 |
| 5/1/2015 | 20:15:12 | 54.13 | 50.43 | 656 | 1.17 | 0.22 | 35.9 |
| 5/1/2015 | 20:15:12 | 54.46 | 50.76 | 640 | 1.19 | 0.22 | 35.0 |
| 5/1/2015 | 20:15:13 | 54.79 | 51.09 | 640 | 1.17 | 0.22 | 35.0 |
| 5/1/2015 | 20:15:14 | 55.12 | 51.42 | 621 | 1.19 | 0.22 | 33.9 |
| 5/1/2015 | 20:15:14 | 55.45 | 51.75 | 603 | 1.19 | 0.21 | 33.0 |
| 5/1/2015 | 20:15:43 | 55.77 | 52.07 | 0 | 1.18 | 0.84 | 0.0 |
| 5/1/2015 | 20:15:44 | 56.10 | 52.40 | 159 | 1.18 | 0.87 | 8.7 |
| 5/1/2015 | 20:15:45 | 56.43 | 52.73 | 309 | 1.21 | 1.01 | 16.9 |
| 5/1/2015 | 20:15:49 | 56.76 | 53.06 | 52 | 1.39 | 1.02 | 2.8 |
| 5/1/2015 | 20:15:52 | 57.09 | 53.39 | 141 | 1.17 | 0.92 | 7.7 |
| 5/1/2015 | 20:15:55 | 57.41 | 53.71 | 142 | 1.15 | 0.92 | 7.8 |
| 5/1/2015 | 20:15:58 | 57.74 | 54.04 | 103 | 1.16 | 0.92 | 5.7 |
| 5/1/2015 | 20:16:02 | 58.07 | 54.37 | 107 | 1.13 | 0.91 | 5.9 |
| 5/1/2015 | 20:16:05 | 58.40 | 54.70 | 116 | 1.22 | 1.02 | 6.4 |

## L1012 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 20:12:10

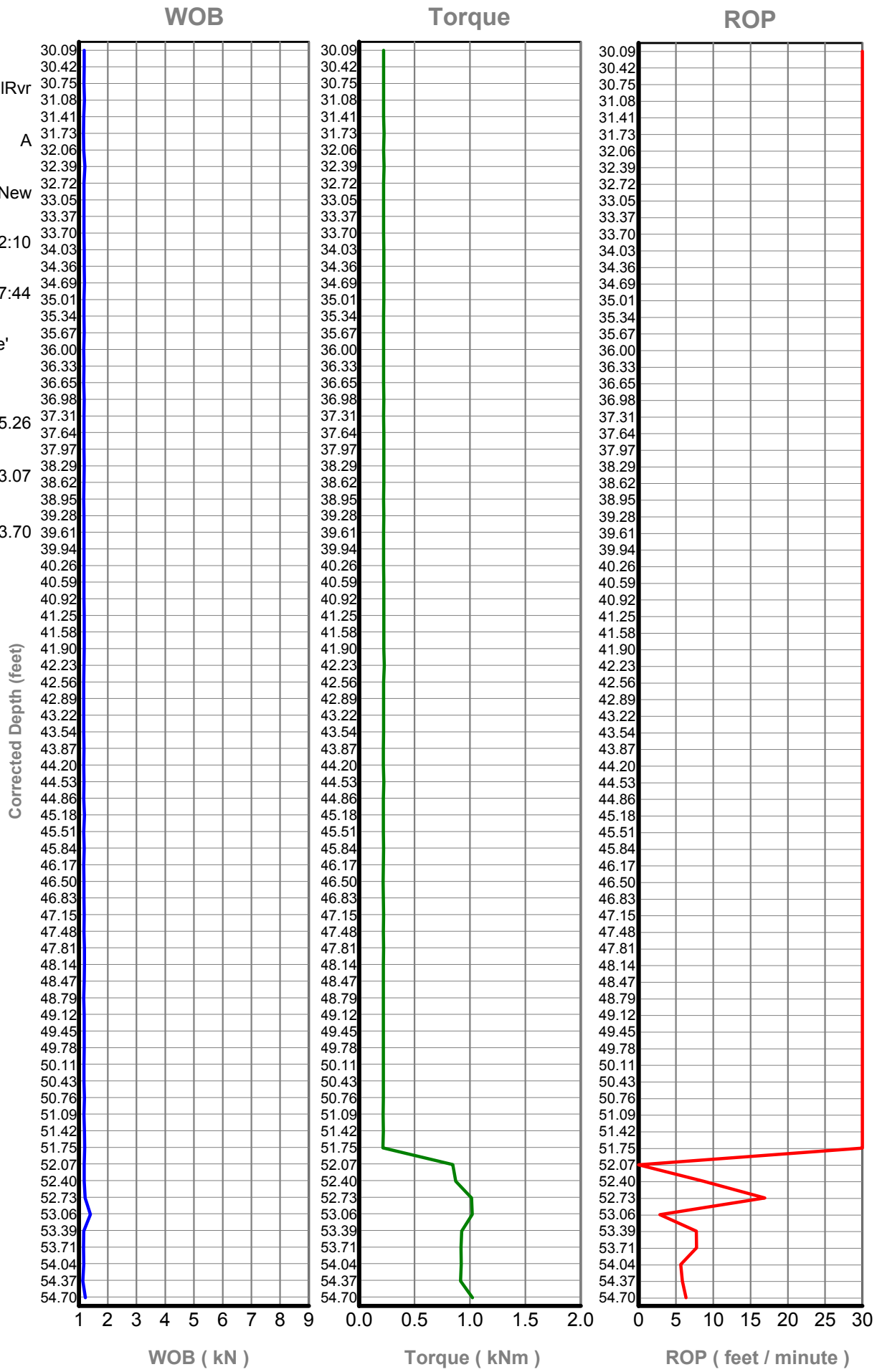
**End Date:**
5/1/2015 20:17:44

**Operator Note:**
'3.7 3.4 a Auto Complete'

**Northing:**
359,705.26

**Easting:**
241,533.07

**Tide (feet):**
3.70



## Hole: L1013 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:14:06 | 33.79 | 30.09 | 1,033 | 0.35 | 0.39 | 56.5 |
| 5/1/2015 20:14:06 | 34.12 | 30.42 | 1,039 | 0.35 | 0.39 | 56.8 |
| 5/1/2015 20:14:07 | 34.45 | 30.75 | 1,039 | 0.35 | 0.39 | 56.8 |
| 5/1/2015 20:14:07 | 34.78 | 31.08 | 1,033 | 0.36 | 0.39 | 56.5 |
| 5/1/2015 20:14:08 | 35.11 | 31.41 | 1,033 | 0.35 | 0.39 | 56.5 |
| 5/1/2015 20:14:08 | 35.43 | 31.73 | 1,033 | 0.35 | 0.39 | 56.5 |
| 5/1/2015 20:14:08 | 35.76 | 32.06 | 1,010 | 0.35 | 0.39 | 55.2 |
| 5/1/2015 20:14:08 | 36.09 | 32.39 | 1,010 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 20:14:09 | 36.42 | 32.72 | 1,010 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 20:14:09 | 36.75 | 33.05 | 1,030 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 20:14:10 | 37.07 | 33.37 | 1,006 | 0.36 | 0.39 | 55.0 |
| 5/1/2015 20:14:10 | 37.40 | 33.70 | 1,006 | 0.36 | 0.39 | 55.0 |
| 5/1/2015 20:14:10 | 37.73 | 34.03 | 1,015 | 0.37 | 0.39 | 55.5 |
| 5/1/2015 20:14:11 | 38.06 | 34.36 | 1,029 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 20:14:11 | 38.39 | 34.69 | 1,029 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 20:14:11 | 38.71 | 35.01 | 1,044 | 0.36 | 0.39 | 57.1 |
| 5/1/2015 20:14:12 | 39.04 | 35.34 | 1,030 | 0.36 | 0.38 | 56.3 |
| 5/1/2015 20:14:12 | 39.37 | 35.67 | 1,030 | 0.36 | 0.38 | 56.3 |
| 5/1/2015 20:14:12 | 39.70 | 36.00 | 1,047 | 0.36 | 0.39 | 57.3 |
| 5/1/2015 20:14:13 | 40.03 | 36.33 | 1,041 | 0.36 | 0.39 | 56.9 |
| 5/1/2015 20:14:13 | 40.35 | 36.65 | 1,041 | 0.36 | 0.39 | 56.9 |
| 5/1/2015 20:14:13 | 40.68 | 36.98 | 1,044 | 0.36 | 0.39 | 57.1 |
| 5/1/2015 20:14:14 | 41.01 | 37.31 | 1,026 | 0.36 | 0.39 | 56.1 |
| 5/1/2015 20:14:14 | 41.34 | 37.64 | 1,026 | 0.36 | 0.39 | 56.1 |
| 5/1/2015 20:14:14 | 41.67 | 37.97 | 1,029 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 20:14:15 | 41.99 | 38.29 | 1,021 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:15 | 42.32 | 38.62 | 1,021 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:15 | 42.65 | 38.95 | 1,021 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:16 | 42.98 | 39.28 | 1,025 | 0.38 | 0.39 | 56.1 |
| 5/1/2015 20:14:16 | 43.31 | 39.61 | 1,025 | 0.38 | 0.39 | 56.1 |
| 5/1/2015 20:14:16 | 43.64 | 39.94 | 1,019 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 20:14:17 | 43.96 | 40.26 | 1,046 | 0.35 | 0.40 | 57.2 |
| 5/1/2015 20:14:17 | 44.29 | 40.59 | 1,046 | 0.35 | 0.40 | 57.2 |
| 5/1/2015 20:14:17 | 44.62 | 40.92 | 1,047 | 0.36 | 0.38 | 57.2 |
| 5/1/2015 20:14:18 | 44.95 | 41.25 | 1,050 | 0.36 | 0.39 | 57.4 |
| 5/1/2015 20:14:19 | 45.28 | 41.58 | 1,050 | 0.36 | 0.39 | 57.4 |
| 5/1/2015 20:14:18 | 45.60 | 41.90 | 1,020 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:19 | 45.93 | 42.23 | 1,020 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:19 | 46.26 | 42.56 | 1,020 | 0.36 | 0.39 | 55.8 |
| 5/1/2015 20:14:20 | 46.59 | 42.89 | 1,031 | 0.37 | 0.39 | 56.4 |
| 5/1/2015 20:14:20 | 46.92 | 43.22 | 1,031 | 0.37 | 0.39 | 56.4 |
| 5/1/2015 20:14:20 | 47.24 | 43.54 | 1,024 | 0.36 | 0.39 | 56.0 |
| 5/1/2015 20:14:21 | 47.57 | 43.87 | 1,014 | 0.36 | 0.39 | 55.5 |
| 5/1/2015 20:14:21 | 47.90 | 44.20 | 1,014 | 0.36 | 0.39 | 55.5 |
| 5/1/2015 20:14:21 | 48.23 | 44.53 | 1,014 | 0.36 | 0.39 | 55.5 |
| 5/1/2015 20:14:22 | 48.56 | 44.86 | 1,032 | 0.36 | 0.39 | 56.4 |
| 5/1/2015 20:14:22 | 48.88 | 45.18 | 1,032 | 0.36 | 0.39 | 56.4 |
| 5/1/2015 20:14:22 | 49.21 | 45.51 | 1,054 | 0.36 | 0.39 | 57.6 |
| 5/1/2015 20:14:23 | 49.54 | 45.84 | 1,052 | 0.36 | 0.39 | 57.5 |
| 5/1/2015 20:14:23 | 49.87 | 46.17 | 1,052 | 0.36 | 0.39 | 57.5 |
| 5/1/2015 20:14:23 | 50.20 | 46.50 | 1,052 | 0.36 | 0.39 | 57.5 |
| 5/1/2015 20:14:24 | 50.53 | 46.83 | 1,058 | 0.36 | 0.39 | 57.8 |
| 5/1/2015 20:14:24 | 50.85 | 47.15 | 1,058 | 0.36 | 0.39 | 57.8 |
| 5/1/2015 20:14:24 | 51.18 | 47.48 | 1,031 | 0.35 | 0.39 | 56.4 |
| 5/1/2015 20:14:25 | 51.51 | 47.81 | 1,023 | 0.35 | 0.40 | 56.0 |
| 5/1/2015 20:14:25 | 51.84 | 48.14 | 989 | 0.35 | 0.40 | 54.1 |
| 5/1/2015 20:14:26 | 52.17 | 48.47 | 989 | 0.35 | 0.40 | 54.1 |
| 5/1/2015 20:14:26 | 52.49 | 48.79 | 859 | 0.35 | 0.41 | 47.0 |
| 5/1/2015 20:14:27 | 52.82 | 49.12 | 797 | 0.33 | 0.46 | 43.6 |
| 5/1/2015 20:14:35 | 53.15 | 49.45 | 1 | 4.94 | 0.46 | 0.1 |
| 5/1/2015 20:14:38 | 53.48 | 49.78 | 46 | 4.22 | 0.46 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 20:14:40 | 53.81 | 50.11 | 225 | 3.96 | 0.46 | 12.3 |
| 5/1/2015 | 20:14:44 | 54.13 | 50.43 | 84 | 4.21 | 0.47 | 4.6 |
| 5/1/2015 | 20:14:53 | 54.46 | 50.76 | 58 | 3.91 | 0.47 | 3.2 |
| 5/1/2015 | 20:15:02 | 54.79 | 51.09 | 0 | 3.37 | 0.47 | 0.0 |
| 5/1/2015 | 20:15:09 | 55.12 | 51.42 | 41 | 3.57 | 0.47 | 2.2 |
| 5/1/2015 | 20:15:12 | 55.45 | 51.75 | 91 | 3.56 | 0.46 | 5.0 |
| 5/1/2015 | 20:15:14 | 55.77 | 52.07 | 151 | 3.86 | 0.48 | 8.2 |
| 5/1/2015 | 20:15:17 | 56.10 | 52.40 | 135 | 3.60 | 0.46 | 7.4 |
| 5/1/2015 | 20:15:18 | 56.43 | 52.73 | 169 | 3.19 | 0.45 | 9.3 |
| 5/1/2015 | 20:15:19 | 56.76 | 53.06 | 225 | 3.14 | 0.46 | 12.3 |
| 5/1/2015 | 20:15:33 | 57.09 | 53.39 | 13 | 3.56 | 0.47 | 0.7 |
| 5/1/2015 | 20:15:37 | 57.41 | 53.71 | 97 | 3.60 | 0.47 | 5.3 |
| 5/1/2015 | 20:15:45 | 57.74 | 54.04 | 81 | 3.64 | 0.46 | 4.4 |
| 5/1/2015 | 20:15:50 | 58.07 | 54.37 | 99 | 3.33 | 0.47 | 5.4 |
| 5/1/2015 | 20:15:54 | 58.39 | 54.69 | 69 | 3.43 | 0.47 | 3.8 |

## L1013 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 20:12:20

**End Date:**
5/1/2015 20:18:20

**Operator Note:**
'3.7 3.4b Auto Complete'

**Northing:**
359,744.38

**Easting:**
241,597.06

**Tide (feet):**
3.70



## Hole: L1014 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:26:33 | 34.12 | 30.22 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 20:26:33 | 34.45 | 30.55 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 20:26:33 | 34.78 | 30.88 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 20:26:34 | 35.11 | 31.21 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 20:26:34 | 35.43 | 31.53 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 20:26:34 | 35.76 | 31.86 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:35 | 36.09 | 32.19 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:35 | 36.42 | 32.52 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 20:26:36 | 36.75 | 32.85 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 20:26:36 | 37.07 | 33.17 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:36 | 37.40 | 33.50 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:37 | 37.73 | 33.83 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:37 | 38.06 | 34.16 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:37 | 38.39 | 34.49 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 20:26:38 | 38.71 | 34.81 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 20:26:38 | 39.04 | 35.14 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 20:26:38 | 39.37 | 35.47 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:39 | 39.70 | 35.80 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:39 | 40.03 | 36.13 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 20:26:40 | 40.35 | 36.45 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:40 | 40.68 | 36.78 | 988 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:41 | 41.01 | 37.11 | 988 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:41 | 41.34 | 37.44 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 20:26:41 | 41.67 | 37.77 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:42 | 41.99 | 38.09 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:42 | 42.32 | 38.42 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:42 | 42.65 | 38.75 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:43 | 42.98 | 39.08 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 20:26:43 | 43.31 | 39.41 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:43 | 43.64 | 39.74 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:44 | 43.96 | 40.06 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:44 | 44.29 | 40.39 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:44 | 44.62 | 40.72 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:45 | 44.95 | 41.05 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:45 | 45.28 | 41.38 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:45 | 45.60 | 41.70 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:46 | 45.93 | 42.03 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:46 | 46.26 | 42.36 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 20:26:46 | 46.59 | 42.69 | 975 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:47 | 46.92 | 43.02 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:47 | 47.24 | 43.34 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:48 | 47.57 | 43.67 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:48 | 47.90 | 44.00 | 972 | 1.14 | 0.29 | 53.2 |
| 5/1/2015 20:26:48 | 48.23 | 44.33 | 972 | 1.14 | 0.29 | 53.2 |
| 5/1/2015 20:26:49 | 48.56 | 44.66 | 972 | 1.14 | 0.29 | 53.2 |
| 5/1/2015 20:26:49 | 48.88 | 44.98 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 20:26:49 | 49.21 | 45.31 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:50 | 49.54 | 45.64 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:50 | 49.87 | 45.97 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:51 | 50.20 | 46.30 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 20:26:51 | 50.53 | 46.63 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:51 | 50.85 | 46.95 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:52 | 51.18 | 47.28 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:26:52 | 51.51 | 47.61 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 20:27:03 | 51.84 | 47.94 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 20:27:06 | 52.17 | 48.27 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 20:27:06 | 52.49 | 48.59 | 201 | 1.14 | 0.29 | 11.0 |
| 5/1/2015 20:27:10 | 52.82 | 48.92 | 110 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 20:27:15 | 53.15 | 49.25 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 20:27:15 | 53.48 | 49.58 | 167 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 20:27:16 | 53.81 | 49.91 | 270 | 1.14 | 0.29 | 14.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 20:27:17 | 54.13 | 50.23 | 488 | 1.14 | 0.29 | 26.7 |
| 5/1/2015 | 20:27:26 | 54.46 | 50.56 | 6 | 1.14 | 0.29 | 0.3 |
| 5/1/2015 | 20:27:29 | 54.79 | 50.89 | 151 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 | 20:27:31 | 55.12 | 51.22 | 160 | 1.14 | 0.29 | 8.8 |
| 5/1/2015 | 20:27:34 | 55.45 | 51.55 | 80 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 | 20:27:36 | 55.77 | 51.87 | 170 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 | 20:27:39 | 56.10 | 52.20 | 196 | 1.14 | 0.29 | 10.7 |
| 5/1/2015 | 20:27:40 | 56.43 | 52.53 | 221 | 1.14 | 0.29 | 12.1 |
| 5/1/2015 | 20:27:42 | 56.76 | 52.86 | 215 | 1.14 | 0.29 | 11.8 |
| 5/1/2015 | 20:27:45 | 57.09 | 53.19 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 20:27:52 | 57.41 | 53.51 | 52 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 | 20:27:57 | 57.74 | 53.84 | 72 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 | 20:28:05 | 58.07 | 54.17 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 20:28:12 | 58.40 | 54.50 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 20:28:20 | 58.73 | 54.83 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 20:28:21 | 58.82 | 54.92 | 63 | 1.14 | 0.29 | 3.4 |

## L1014 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 20:25:03

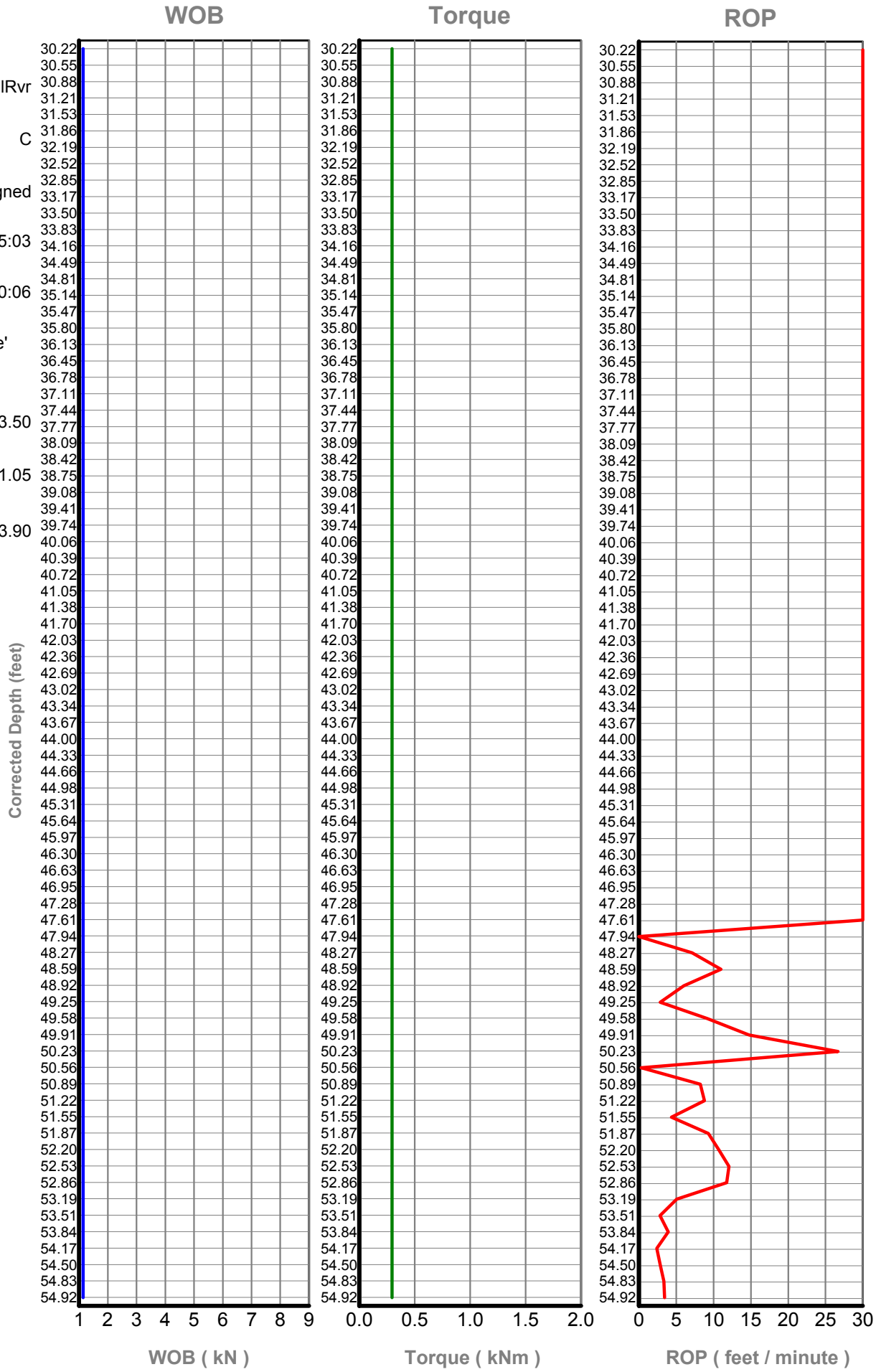
**End Date:**
5/1/2015 20:30:06

**Operator Note:**
'3.9 3.8 c Auto Complete'

**Northing:**
359,783.50

**Easting:**
241,661.05

**Tide (feet):**
3.90



## Hole: L102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:02:19 | 31.17 | 30.07 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:02:19 | 31.50 | 30.40 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:02:19 | 31.82 | 30.72 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:02:19 | 32.15 | 31.05 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:02:20 | 32.48 | 31.38 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:02:21 | 32.81 | 31.71 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:02:21 | 33.14 | 32.04 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:02:21 | 33.46 | 32.36 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:02:22 | 33.79 | 32.69 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:02:22 | 34.12 | 33.02 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:22 | 34.45 | 33.35 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:02:23 | 34.78 | 33.68 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:02:23 | 35.11 | 34.01 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 6:02:23 | 35.43 | 34.33 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:24 | 35.76 | 34.66 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:24 | 36.09 | 34.99 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:02:24 | 36.42 | 35.32 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:02:25 | 36.75 | 35.65 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:02:25 | 37.07 | 35.97 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:25 | 37.40 | 36.30 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:26 | 37.73 | 36.63 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:26 | 38.06 | 36.96 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 6:02:26 | 38.39 | 37.29 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:02:27 | 38.71 | 37.61 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:02:27 | 39.04 | 37.94 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:27 | 39.37 | 38.27 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:27 | 39.70 | 38.60 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:02:28 | 40.03 | 38.93 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:02:28 | 40.35 | 39.25 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:02:28 | 40.68 | 39.58 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:29 | 41.01 | 39.91 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:29 | 41.34 | 40.24 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:29 | 41.67 | 40.57 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:30 | 41.99 | 40.89 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:30 | 42.32 | 41.22 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:02:30 | 42.65 | 41.55 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:02:31 | 42.98 | 41.88 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:02:32 | 43.31 | 42.21 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:02:32 | 43.64 | 42.54 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:02:32 | 43.96 | 42.86 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 6:02:33 | 44.29 | 43.19 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 6:02:33 | 44.62 | 43.52 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:33 | 44.95 | 43.85 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 6:02:34 | 45.28 | 44.18 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 6:02:34 | 45.60 | 44.50 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 6:02:34 | 45.93 | 44.83 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:35 | 46.26 | 45.16 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:35 | 46.59 | 45.49 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:02:35 | 46.92 | 45.82 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:36 | 47.24 | 46.14 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:36 | 47.57 | 46.47 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:02:36 | 47.90 | 46.80 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:02:37 | 48.23 | 47.13 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:02:51 | 48.56 | 47.46 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 6:02:53 | 48.88 | 47.78 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 6:02:54 | 49.21 | 48.11 | 217 | 1.14 | 0.29 | 11.9 |
| 5/1/2015 6:02:59 | 49.54 | 48.44 | 114 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 6:03:04 | 49.87 | 48.77 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 6:03:05 | 50.20 | 49.10 | 103 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 6:03:10 | 50.53 | 49.43 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 6:03:12 | 50.85 | 49.75 | 151 | 1.14 | 0.29 | 8.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:03:17 | 51.18 | 50.08 | 68 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 6:03:20 | 51.51 | 50.41 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 6:03:23 | 51.84 | 50.74 | 118 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 6:03:25 | 52.17 | 51.07 | 143 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 | 6:03:29 | 52.49 | 51.39 | 112 | 1.14 | 0.29 | 6.1 |
| 5/1/2015 | 6:03:34 | 52.82 | 51.72 | 66 | 1.14 | 0.29 | 3.6 |
| 5/1/2015 | 6:03:41 | 53.15 | 52.05 | 63 | 1.14 | 0.29 | 3.4 |
| 5/1/2015 | 6:03:45 | 53.48 | 52.38 | 86 | 1.14 | 0.29 | 4.7 |
| 5/1/2015 | 6:03:48 | 53.81 | 52.71 | 101 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 | 6:03:52 | 54.13 | 53.03 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 6:03:58 | 54.46 | 53.36 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 6:04:04 | 54.79 | 53.69 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 6:04:12 | 55.12 | 54.02 | 41 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 | 6:04:20 | 55.45 | 54.35 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 6:04:22 | 55.56 | 54.46 | 58 | 1.14 | 0.29 | 3.1 |

## L102 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:01:32

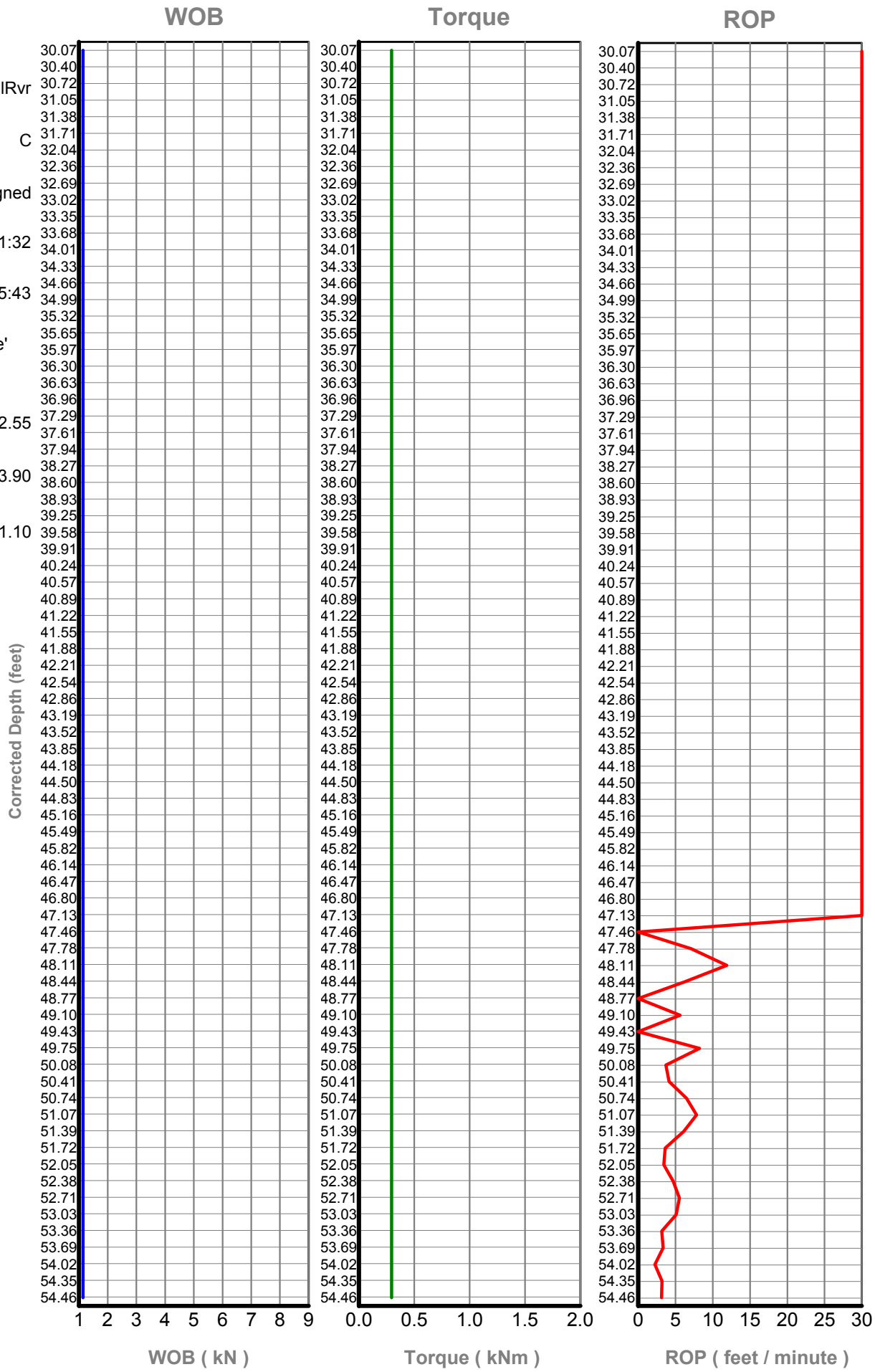
**End Date:**
5/1/2015 6:05:43

**Operator Note:**
'1.1 1.2 c Auto Complete'

**Northing:**
359,882.55

**Easting:**
242,383.90

**Tide (feet):**
1.10



## Hole: L103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:57:04 | 32.81 | 30.21 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:05 | 33.14 | 30.54 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:05 | 33.46 | 30.86 | 1,136 | 1.70 | 0.80 | 62.1 |
| 5/1/2015 3:57:05 | 33.79 | 31.19 | 1,136 | 1.70 | 0.80 | 62.1 |
| 5/1/2015 3:57:05 | 34.12 | 31.52 | 1,136 | 1.68 | 0.80 | 62.1 |
| 5/1/2015 3:57:06 | 34.45 | 31.85 | 1,151 | 1.68 | 0.79 | 63.0 |
| 5/1/2015 3:57:06 | 34.78 | 32.18 | 1,151 | 1.68 | 0.79 | 63.0 |
| 5/1/2015 3:57:06 | 35.11 | 32.51 | 1,125 | 1.68 | 0.80 | 61.5 |
| 5/1/2015 3:57:07 | 35.43 | 32.83 | 1,125 | 1.68 | 0.80 | 61.5 |
| 5/1/2015 3:57:07 | 35.76 | 33.16 | 1,152 | 1.71 | 0.76 | 63.0 |
| 5/1/2015 3:57:07 | 36.09 | 33.49 | 1,152 | 1.71 | 0.76 | 63.0 |
| 5/1/2015 3:57:08 | 36.42 | 33.82 | 1,142 | 1.70 | 0.79 | 62.5 |
| 5/1/2015 3:57:08 | 36.75 | 34.15 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:08 | 37.07 | 34.47 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:08 | 37.40 | 34.80 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:09 | 37.73 | 35.13 | 1,141 | 1.68 | 0.80 | 62.4 |
| 5/1/2015 3:57:09 | 38.06 | 35.46 | 1,156 | 1.71 | 0.80 | 63.2 |
| 5/1/2015 3:57:10 | 38.39 | 35.79 | 1,162 | 1.68 | 0.71 | 63.6 |
| 5/1/2015 3:57:10 | 38.71 | 36.11 | 1,162 | 1.68 | 0.71 | 63.6 |
| 5/1/2015 3:57:10 | 39.04 | 36.44 | 1,165 | 1.66 | 0.78 | 63.7 |
| 5/1/2015 3:57:11 | 39.37 | 36.77 | 1,165 | 1.66 | 0.78 | 63.7 |
| 5/1/2015 3:57:11 | 39.70 | 37.10 | 1,161 | 1.70 | 0.79 | 63.5 |
| 5/1/2015 3:57:11 | 40.03 | 37.43 | 1,167 | 1.70 | 0.77 | 63.8 |
| 5/1/2015 3:57:12 | 40.35 | 37.75 | 1,167 | 1.70 | 0.77 | 63.8 |
| 5/1/2015 3:57:12 | 40.68 | 38.08 | 1,167 | 1.69 | 0.81 | 63.8 |
| 5/1/2015 3:57:12 | 41.01 | 38.41 | 1,167 | 1.69 | 0.81 | 63.8 |
| 5/1/2015 3:57:12 | 41.34 | 38.74 | 1,134 | 1.68 | 0.79 | 62.0 |
| 5/1/2015 3:57:12 | 41.67 | 39.07 | 1,134 | 1.68 | 0.79 | 62.0 |
| 5/1/2015 3:57:13 | 41.99 | 39.39 | 1,134 | 1.68 | 0.79 | 62.0 |
| 5/1/2015 3:57:13 | 42.32 | 39.72 | 1,148 | 1.68 | 0.79 | 62.8 |
| 5/1/2015 3:57:14 | 42.65 | 40.05 | 1,148 | 1.68 | 0.79 | 62.8 |
| 5/1/2015 3:57:14 | 42.98 | 40.38 | 1,121 | 1.70 | 0.79 | 61.3 |
| 5/1/2015 3:57:14 | 43.31 | 40.71 | 1,121 | 1.68 | 0.74 | 61.3 |
| 5/1/2015 3:57:15 | 43.64 | 41.04 | 1,121 | 1.68 | 0.74 | 61.3 |
| 5/1/2015 3:57:15 | 43.96 | 41.36 | 1,137 | 1.69 | 0.77 | 62.2 |
| 5/1/2015 3:57:15 | 44.29 | 41.69 | 1,137 | 1.69 | 0.77 | 62.2 |
| 5/1/2015 3:57:15 | 44.62 | 42.02 | 1,130 | 1.70 | 0.79 | 61.8 |
| 5/1/2015 3:57:16 | 44.95 | 42.35 | 1,130 | 1.70 | 0.79 | 61.8 |
| 5/1/2015 3:57:16 | 45.28 | 42.68 | 1,130 | 1.68 | 0.80 | 61.8 |
| 5/1/2015 3:57:16 | 45.60 | 43.00 | 1,134 | 1.71 | 0.80 | 62.0 |
| 5/1/2015 3:57:17 | 45.93 | 43.33 | 1,134 | 1.71 | 0.80 | 62.0 |
| 5/1/2015 3:57:17 | 46.26 | 43.66 | 1,134 | 1.70 | 0.77 | 62.0 |
| 5/1/2015 3:57:18 | 46.59 | 43.99 | 1,134 | 1.70 | 0.77 | 62.0 |
| 5/1/2015 3:57:18 | 46.92 | 44.32 | 1,119 | 1.69 | 0.79 | 61.2 |
| 5/1/2015 3:57:18 | 47.24 | 44.64 | 1,134 | 1.68 | 0.79 | 62.0 |
| 5/1/2015 3:57:18 | 47.57 | 44.97 | 1,134 | 1.68 | 0.79 | 62.0 |
| 5/1/2015 3:57:18 | 47.90 | 45.30 | 1,134 | 1.76 | 0.79 | 62.0 |
| 5/1/2015 3:57:34 | 48.23 | 45.63 | 0 | 1.13 | 1.34 | 0.0 |
| 5/1/2015 3:57:41 | 48.56 | 45.96 | 39 | 1.09 | 1.16 | 2.1 |
| 5/1/2015 3:57:48 | 48.88 | 46.28 | 49 | 1.12 | 1.01 | 2.7 |
| 5/1/2015 3:57:55 | 49.21 | 46.61 | 50 | 1.11 | 1.04 | 2.7 |
| 5/1/2015 3:58:02 | 49.54 | 46.94 | 54 | 1.05 | 1.08 | 3.0 |
| 5/1/2015 3:58:08 | 49.87 | 47.27 | 60 | 1.09 | 1.05 | 3.3 |
| 5/1/2015 3:58:10 | 49.92 | 47.32 | 47 | 0.50 | 1.15 | 2.6 |

## L103 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:54:50

**End Date:**
5/1/2015 3:59:33

**Operator Note:**
'2.6 2.8 a Auto Complete'

**Northing:**
359,918.90

**Easting:**
242,443.53

**Tide (feet):**
2.60



## Hole: L104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:57:22 | 32.81 | 30.21 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 3:57:23 | 33.14 | 30.54 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 3:57:23 | 33.46 | 30.86 | 1,142 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 3:57:23 | 33.79 | 31.19 | 1,142 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 3:57:23 | 34.12 | 31.52 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 3:57:24 | 34.45 | 31.85 | 1,153 | 0.32 | 0.38 | 63.1 |
| 5/1/2015 3:57:24 | 34.78 | 32.18 | 1,153 | 0.32 | 0.38 | 63.1 |
| 5/1/2015 3:57:24 | 35.11 | 32.51 | 1,148 | 0.31 | 0.39 | 62.8 |
| 5/1/2015 3:57:25 | 35.43 | 32.83 | 1,148 | 0.31 | 0.39 | 62.8 |
| 5/1/2015 3:57:25 | 35.76 | 33.16 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:57:25 | 36.09 | 33.49 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:57:26 | 36.42 | 33.82 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:57:26 | 36.75 | 34.15 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:57:26 | 37.07 | 34.47 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:57:26 | 37.40 | 34.80 | 1,142 | 0.29 | 0.38 | 62.4 |
| 5/1/2015 3:57:27 | 37.73 | 35.13 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:57:27 | 38.06 | 35.46 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:57:27 | 38.39 | 35.79 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 3:57:28 | 38.71 | 36.11 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 3:57:28 | 39.04 | 36.44 | 1,151 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 3:57:28 | 39.37 | 36.77 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 3:57:29 | 39.70 | 37.10 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 3:57:29 | 40.03 | 37.43 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:57:29 | 40.35 | 37.75 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:57:29 | 40.68 | 38.08 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 3:57:30 | 41.01 | 38.41 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:31 | 41.34 | 38.74 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:31 | 41.67 | 39.07 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/1/2015 3:57:31 | 41.99 | 39.39 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/1/2015 3:57:31 | 42.32 | 39.72 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 3:57:32 | 42.65 | 40.05 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 3:57:32 | 42.98 | 40.38 | 1,156 | 0.32 | 0.38 | 63.2 |
| 5/1/2015 3:57:32 | 43.31 | 40.71 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:33 | 43.64 | 41.04 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:33 | 43.96 | 41.36 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 3:57:33 | 44.29 | 41.69 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 3:57:33 | 44.62 | 42.02 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/1/2015 3:57:34 | 44.95 | 42.35 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:34 | 45.28 | 42.68 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:34 | 45.60 | 43.00 | 1,169 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 3:57:35 | 45.93 | 43.33 | 1,169 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 3:57:35 | 46.26 | 43.66 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 3:57:35 | 46.59 | 43.99 | 1,166 | 0.32 | 0.37 | 63.8 |
| 5/1/2015 3:57:36 | 46.92 | 44.32 | 1,166 | 0.32 | 0.37 | 63.8 |
| 5/1/2015 3:57:36 | 47.24 | 44.64 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:36 | 47.57 | 44.97 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 3:57:36 | 47.90 | 45.30 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/1/2015 3:57:37 | 48.23 | 45.63 | 1,155 | 0.29 | 0.42 | 63.2 |
| 5/1/2015 3:57:37 | 48.56 | 45.96 | 1,155 | 0.29 | 0.42 | 63.2 |
| 5/1/2015 3:57:42 | 48.88 | 46.28 | 122 | 4.38 | 0.47 | 6.7 |
| 5/1/2015 3:57:45 | 49.21 | 46.61 | 107 | 6.35 | 0.47 | 5.8 |
| 5/1/2015 3:57:51 | 49.54 | 46.94 | 58 | 6.28 | 0.47 | 3.2 |
| 5/1/2015 3:57:57 | 49.87 | 47.27 | 49 | 3.95 | 0.47 | 2.7 |
| 5/1/2015 3:58:02 | 50.20 | 47.60 | 81 | 4.02 | 0.46 | 4.4 |
| 5/1/2015 3:58:05 | 50.53 | 47.93 | 97 | 4.24 | 0.47 | 5.3 |
| 5/1/2015 3:58:09 | 50.85 | 48.25 | 90 | 5.36 | 0.47 | 4.9 |
| 5/1/2015 3:58:14 | 51.18 | 48.58 | 74 | 3.98 | 0.46 | 4.0 |
| 5/1/2015 3:58:18 | 51.51 | 48.91 | 72 | 4.26 | 0.46 | 4.0 |
| 5/1/2015 3:58:25 | 51.84 | 49.24 | 58 | 3.47 | 0.47 | 3.2 |
| 5/1/2015 3:58:31 | 52.17 | 49.57 | 58 | 3.05 | 0.46 | 3.2 |
| 5/1/2015 3:58:36 | 52.49 | 49.89 | 75 | 3.73 | 0.46 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:58:45 | 52.82 | 50.22 | 49 | 3.44 | 0.47 | 2.7 |
| 5/1/2015 | 3:58:54 | 53.15 | 50.55 | 41 | 3.41 | 0.47 | 2.2 |
| 5/1/2015 | 3:59:00 | 53.48 | 50.88 | 57 | 3.65 | 0.47 | 3.1 |
| 5/1/2015 | 3:59:09 | 53.81 | 51.21 | 35 | 2.91 | 0.48 | 1.9 |
| 5/1/2015 | 3:59:19 | 54.13 | 51.53 | 37 | 3.35 | 0.47 | 2.0 |
| 5/1/2015 | 3:59:30 | 54.46 | 51.86 | 35 | 3.16 | 0.47 | 1.9 |
| 5/1/2015 | 3:59:36 | 54.69 | 52.09 | 38 | 3.12 | 0.48 | 2.1 |

## L104 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:55:53

**End Date:**
5/1/2015 4:01:40

**Operator Note:**
'2.6 2.8b Auto Complete'

**Northing:**
359,958.99

**Easting:**
242,506.98

**Tide (feet):**
2.60



## Hole: L105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:55:41 | 32.81 | 30.21 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:55:41 | 33.14 | 30.54 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:55:41 | 33.46 | 30.86 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:42 | 33.79 | 31.19 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 3:55:42 | 34.12 | 31.52 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 3:55:42 | 34.45 | 31.85 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 3:55:43 | 34.78 | 32.18 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:43 | 35.11 | 32.51 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:43 | 35.43 | 32.83 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:55:44 | 35.76 | 33.16 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:44 | 36.09 | 33.49 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:44 | 36.42 | 33.82 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:45 | 36.75 | 34.15 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 3:55:45 | 37.07 | 34.47 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 3:55:45 | 37.40 | 34.80 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:46 | 37.73 | 35.13 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:46 | 38.06 | 35.46 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:46 | 38.39 | 35.79 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:47 | 38.71 | 36.11 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:47 | 39.04 | 36.44 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 3:55:47 | 39.37 | 36.77 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:48 | 39.70 | 37.10 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:48 | 40.03 | 37.43 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:48 | 40.35 | 37.75 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 3:55:49 | 40.68 | 38.08 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 3:55:49 | 41.01 | 38.41 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:55:49 | 41.34 | 38.74 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 3:55:50 | 41.67 | 39.07 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 3:55:50 | 41.99 | 39.39 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:50 | 42.32 | 39.72 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:51 | 42.65 | 40.05 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:55:51 | 42.98 | 40.38 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 3:55:51 | 43.31 | 40.71 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:55:52 | 43.64 | 41.04 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:55:52 | 43.96 | 41.36 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:55:53 | 44.29 | 41.69 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:55:53 | 44.62 | 42.02 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:55:53 | 44.95 | 42.35 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 3:55:54 | 45.28 | 42.68 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:55:54 | 45.60 | 43.00 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:55:54 | 45.93 | 43.33 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:55:55 | 46.26 | 43.66 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 3:55:55 | 46.59 | 43.99 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 3:55:55 | 46.92 | 44.32 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:55:56 | 47.24 | 44.64 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:55:56 | 47.57 | 44.97 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:55:56 | 47.90 | 45.30 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:55:57 | 48.23 | 45.63 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:55:57 | 48.56 | 45.96 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:56:16 | 48.88 | 46.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 3:56:19 | 49.21 | 46.61 | 15 | 1.14 | 0.29 | 0.8 |
| 5/1/2015 3:56:20 | 49.54 | 46.94 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 3:56:25 | 49.87 | 47.27 | 20 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 3:56:26 | 50.20 | 47.60 | 87 | 1.14 | 0.29 | 4.7 |
| 5/1/2015 3:56:28 | 50.53 | 47.93 | 268 | 1.14 | 0.29 | 14.7 |
| 5/1/2015 3:56:29 | 50.85 | 48.25 | 259 | 1.14 | 0.29 | 14.2 |
| 5/1/2015 3:56:30 | 51.18 | 48.58 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 3:56:49 | 51.51 | 48.91 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 3:56:50 | 51.84 | 49.24 | 115 | 1.14 | 0.29 | 6.3 |
| 5/1/2015 3:56:51 | 52.17 | 49.57 | 344 | 1.14 | 0.29 | 18.8 |
| 5/1/2015 3:57:11 | 52.49 | 49.89 | 62 | 1.14 | 0.29 | 3.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:57:12 | 52.82 | 50.22 | 265 | 1.14 | 0.29 | 14.5 |
| 5/1/2015 | 3:57:12 | 53.15 | 50.55 | 379 | 1.14 | 0.29 | 20.7 |
| 5/1/2015 | 3:57:13 | 53.48 | 50.88 | 503 | 1.14 | 0.29 | 27.5 |
| 5/1/2015 | 3:57:13 | 53.81 | 51.21 | 564 | 1.14 | 0.29 | 30.8 |
| 5/1/2015 | 3:57:42 | 54.13 | 51.53 | 77 | 1.14 | 0.29 | 4.2 |
| 5/1/2015 | 3:57:48 | 54.46 | 51.86 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 3:57:59 | 54.79 | 52.19 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 3:58:12 | 55.12 | 52.52 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 3:58:21 | 55.45 | 52.85 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 3:58:23 | 55.55 | 52.95 | 44 | 1.14 | 0.29 | 2.4 |

## L105 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:54:49

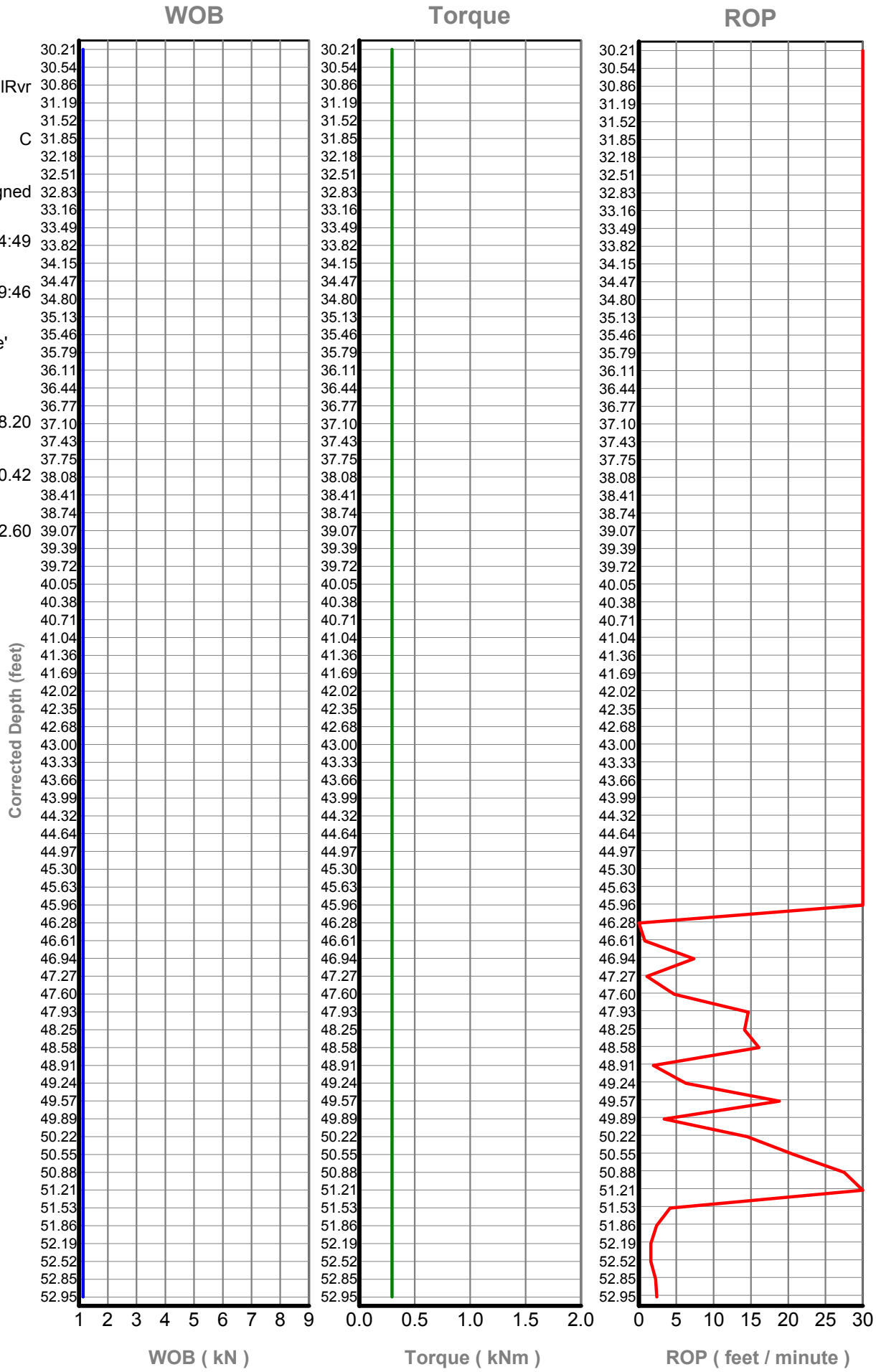
**End Date:**
5/1/2015 3:59:46

**Operator Note:**
'2.6 2.8 c Auto Complete'

**Northing:**
359,998.20

**Easting:**
242,570.42

**Tide (feet):**
2.60



## Hole: L106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:10:48 | 35.76 | 30.26 | 1,252 | 1.79 | 0.23 | 68.4 |
| 5/1/2015 1:10:48 | 36.09 | 30.59 | 1,252 | 1.79 | 0.23 | 68.4 |
| 5/1/2015 1:10:48 | 36.42 | 30.92 | 1,243 | 1.79 | 0.24 | 68.0 |
| 5/1/2015 1:10:49 | 36.75 | 31.25 | 1,243 | 1.79 | 0.24 | 68.0 |
| 5/1/2015 1:10:49 | 37.07 | 31.57 | 1,243 | 1.82 | 0.24 | 68.0 |
| 5/1/2015 1:10:49 | 37.40 | 31.90 | 1,246 | 1.81 | 0.24 | 68.1 |
| 5/1/2015 1:10:50 | 37.73 | 32.23 | 1,246 | 1.81 | 0.24 | 68.1 |
| 5/1/2015 1:10:50 | 38.06 | 32.56 | 1,252 | 1.81 | 0.24 | 68.4 |
| 5/1/2015 1:10:50 | 38.39 | 32.89 | 1,252 | 1.81 | 0.24 | 68.4 |
| 5/1/2015 1:10:50 | 38.71 | 33.21 | 1,246 | 1.79 | 0.24 | 68.1 |
| 5/1/2015 1:10:51 | 39.04 | 33.54 | 1,246 | 1.79 | 0.24 | 68.1 |
| 5/1/2015 1:10:51 | 39.37 | 33.87 | 1,249 | 1.80 | 0.24 | 68.3 |
| 5/1/2015 1:10:51 | 39.70 | 34.20 | 1,249 | 1.80 | 0.24 | 68.3 |
| 5/1/2015 1:10:51 | 40.03 | 34.53 | 1,242 | 1.80 | 0.23 | 67.9 |
| 5/1/2015 1:10:52 | 40.35 | 34.85 | 1,242 | 1.80 | 0.23 | 67.9 |
| 5/1/2015 1:10:52 | 40.68 | 35.18 | 1,252 | 1.80 | 0.24 | 68.4 |
| 5/1/2015 1:10:52 | 41.01 | 35.51 | 1,243 | 1.79 | 0.23 | 68.0 |
| 5/1/2015 1:10:53 | 41.34 | 35.84 | 1,243 | 1.79 | 0.23 | 68.0 |
| 5/1/2015 1:10:53 | 41.67 | 36.17 | 1,243 | 1.80 | 0.24 | 68.0 |
| 5/1/2015 1:10:53 | 41.99 | 36.49 | 1,243 | 1.80 | 0.24 | 68.0 |
| 5/1/2015 1:10:53 | 42.32 | 36.82 | 1,240 | 1.79 | 0.24 | 67.8 |
| 5/1/2015 1:10:54 | 42.65 | 37.15 | 1,240 | 1.79 | 0.24 | 67.8 |
| 5/1/2015 1:10:54 | 42.98 | 37.48 | 1,246 | 1.81 | 0.24 | 68.1 |
| 5/1/2015 1:10:54 | 43.31 | 37.81 | 1,246 | 1.81 | 0.24 | 68.1 |
| 5/1/2015 1:10:54 | 43.64 | 38.14 | 1,240 | 1.79 | 0.23 | 67.8 |
| 5/1/2015 1:10:55 | 43.96 | 38.46 | 1,243 | 1.81 | 0.24 | 68.0 |
| 5/1/2015 1:10:55 | 44.29 | 38.79 | 1,243 | 1.81 | 0.24 | 68.0 |
| 5/1/2015 1:10:55 | 44.62 | 39.12 | 1,236 | 1.79 | 0.24 | 67.6 |
| 5/1/2015 1:10:56 | 44.95 | 39.45 | 1,236 | 1.79 | 0.24 | 67.6 |
| 5/1/2015 1:10:56 | 45.28 | 39.78 | 1,246 | 1.82 | 0.23 | 68.1 |
| 5/1/2015 1:10:57 | 45.60 | 40.10 | 1,246 | 1.82 | 0.23 | 68.1 |
| 5/1/2015 1:10:56 | 45.93 | 40.43 | 1,240 | 1.79 | 0.23 | 67.8 |
| 5/1/2015 1:10:57 | 46.26 | 40.76 | 1,240 | 1.79 | 0.23 | 67.8 |
| 5/1/2015 1:10:57 | 46.59 | 41.09 | 1,240 | 1.81 | 0.23 | 67.8 |
| 5/1/2015 1:10:58 | 46.92 | 41.42 | 1,230 | 1.79 | 0.23 | 67.3 |
| 5/1/2015 1:10:58 | 47.24 | 41.74 | 1,230 | 1.79 | 0.23 | 67.3 |
| 5/1/2015 1:10:58 | 47.57 | 42.07 | 1,210 | 1.81 | 0.23 | 66.2 |
| 5/1/2015 1:10:59 | 47.90 | 42.40 | 1,210 | 1.81 | 0.23 | 66.2 |
| 5/1/2015 1:10:59 | 48.23 | 42.73 | 1,210 | 1.81 | 0.23 | 66.2 |
| 5/1/2015 1:10:59 | 48.56 | 43.06 | 1,210 | 1.81 | 0.23 | 66.2 |
| 5/1/2015 1:10:59 | 48.88 | 43.38 | 1,219 | 1.52 | 0.23 | 66.7 |
| 5/1/2015 1:11:00 | 49.21 | 43.71 | 1,219 | 1.52 | 0.23 | 66.7 |
| 5/1/2015 1:11:00 | 49.54 | 44.04 | 1,213 | 1.81 | 0.24 | 66.3 |
| 5/1/2015 1:11:00 | 49.87 | 44.37 | 1,203 | 1.81 | 0.23 | 65.8 |
| 5/1/2015 1:11:01 | 50.20 | 44.70 | 1,203 | 1.81 | 0.23 | 65.8 |
| 5/1/2015 1:11:01 | 50.53 | 45.03 | 1,218 | 1.81 | 0.24 | 66.6 |
| 5/1/2015 1:11:01 | 50.85 | 45.35 | 1,218 | 1.81 | 0.24 | 66.6 |
| 5/1/2015 1:11:23 | 51.18 | 45.68 | 22 | 1.92 | 0.96 | 1.2 |
| 5/1/2015 1:11:24 | 51.51 | 46.01 | 130 | 1.05 | 1.39 | 7.1 |
| 5/1/2015 1:11:30 | 51.84 | 46.34 | 60 | 1.07 | 1.04 | 3.3 |
| 5/1/2015 1:11:35 | 52.17 | 46.67 | 59 | 1.06 | 1.16 | 3.2 |
| 5/1/2015 1:11:42 | 52.49 | 46.99 | 52 | 1.07 | 1.09 | 2.8 |
| 5/1/2015 1:11:48 | 52.82 | 47.32 | 54 | 1.07 | 1.08 | 2.9 |
| 5/1/2015 1:11:51 | 52.95 | 47.45 | 54 | 1.30 | 0.95 | 3.0 |

## L106 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:08:05

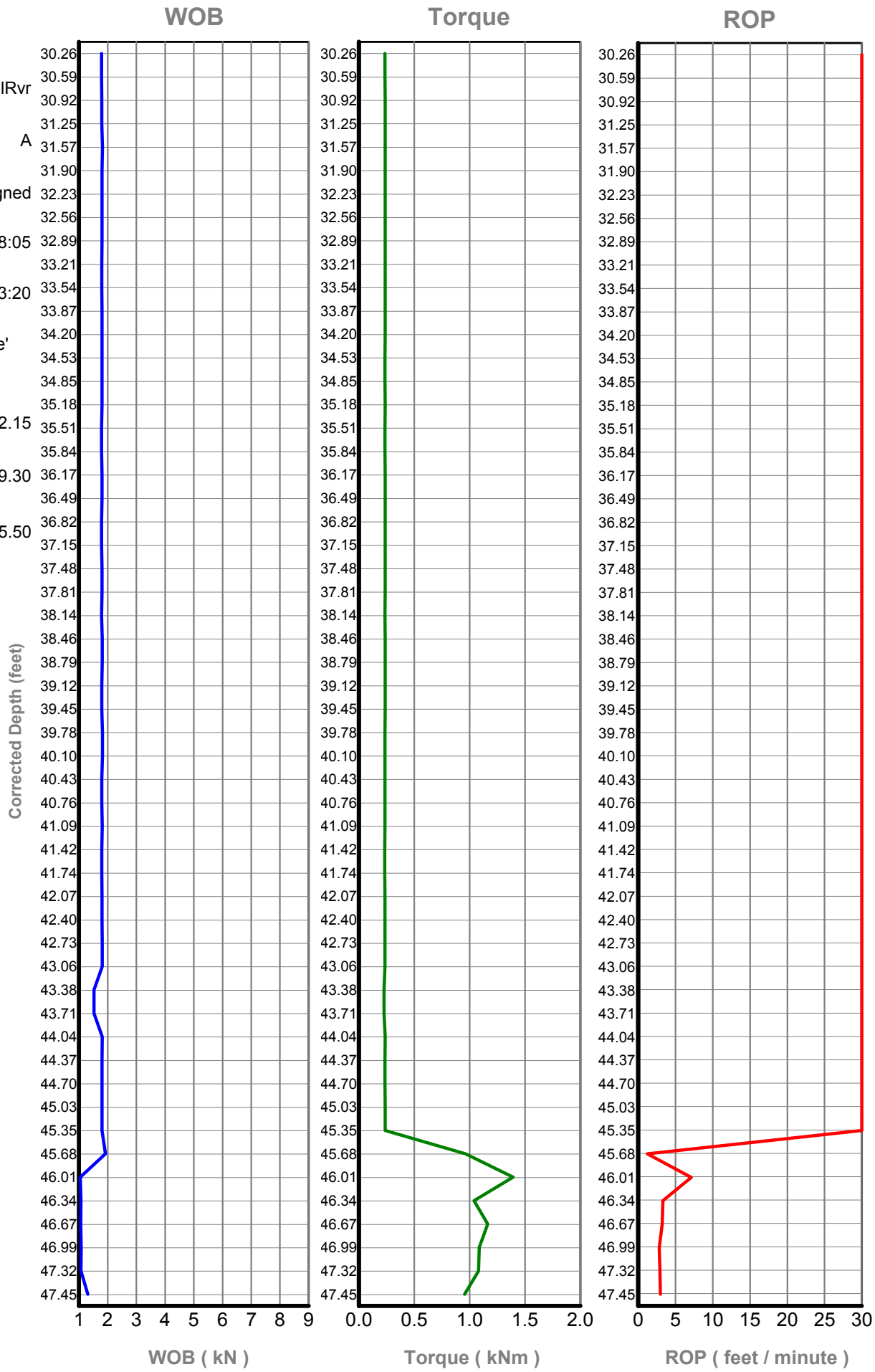
**End Date:**
5/1/2015 1:13:20

**Operator Note:**
'5.5 5.7 a Auto Complete'

**Northing:**
360,042.15

**Easting:**
242,639.30

**Tide (feet):**
5.50



## Hole: L107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:11:00 | 35.43 | 30.13 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:11:00 | 35.76 | 30.46 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:11:01 | 36.09 | 30.79 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:11:01 | 36.42 | 31.12 | 1,151 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 1:11:01 | 36.75 | 31.45 | 1,140 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 1:11:02 | 37.07 | 31.77 | 1,140 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 1:11:02 | 37.40 | 32.10 | 1,143 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:11:02 | 37.73 | 32.43 | 1,143 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:11:02 | 38.06 | 32.76 | 1,143 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:11:03 | 38.39 | 33.09 | 1,143 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:11:03 | 38.71 | 33.41 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:03 | 39.04 | 33.74 | 1,129 | 0.31 | 0.38 | 61.8 |
| 5/1/2015 1:11:04 | 39.37 | 34.07 | 1,129 | 0.31 | 0.38 | 61.8 |
| 5/1/2015 1:11:04 | 39.70 | 34.40 | 1,129 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 1:11:05 | 40.03 | 34.73 | 1,129 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 1:11:04 | 40.35 | 35.05 | 1,128 | 0.30 | 0.37 | 61.7 |
| 5/1/2015 1:11:05 | 40.68 | 35.38 | 1,128 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:11:06 | 41.01 | 35.71 | 1,128 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:11:06 | 41.34 | 36.04 | 1,144 | 0.24 | 0.29 | 62.5 |
| 5/1/2015 1:11:06 | 41.67 | 36.37 | 1,144 | 0.24 | 0.29 | 62.5 |
| 5/1/2015 1:11:06 | 41.99 | 36.69 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:11:07 | 42.32 | 37.02 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:11:07 | 42.65 | 37.35 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:11:07 | 42.98 | 37.68 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 1:11:08 | 43.31 | 38.01 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 1:11:08 | 43.64 | 38.34 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:11:08 | 43.96 | 38.66 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:11:08 | 44.29 | 38.99 | 1,175 | 0.31 | 0.37 | 64.2 |
| 5/1/2015 1:11:09 | 44.62 | 39.32 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:09 | 44.95 | 39.65 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:09 | 45.28 | 39.98 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:10 | 45.60 | 40.30 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:10 | 45.93 | 40.63 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 1:11:10 | 46.26 | 40.96 | 1,167 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:11:11 | 46.59 | 41.29 | 1,167 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:11:11 | 46.92 | 41.62 | 1,181 | 0.31 | 0.37 | 64.6 |
| 5/1/2015 1:11:11 | 47.24 | 41.94 | 1,181 | 0.31 | 0.37 | 64.6 |
| 5/1/2015 1:11:11 | 47.57 | 42.27 | 1,160 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 1:11:12 | 47.90 | 42.60 | 1,160 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 1:11:12 | 48.23 | 42.93 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/1/2015 1:11:12 | 48.56 | 43.26 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/1/2015 1:11:13 | 48.88 | 43.58 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/1/2015 1:11:13 | 49.21 | 43.91 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/1/2015 1:11:13 | 49.54 | 44.24 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/1/2015 1:11:13 | 49.87 | 44.57 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/1/2015 1:11:14 | 50.20 | 44.90 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 1:11:14 | 50.53 | 45.23 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/1/2015 1:11:14 | 50.85 | 45.55 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/1/2015 1:11:15 | 51.18 | 45.88 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/1/2015 1:11:15 | 51.51 | 46.21 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:11:16 | 51.84 | 46.54 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:16 | 52.17 | 46.87 | 1,157 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:11:16 | 52.49 | 47.19 | 1,187 | 0.29 | 0.41 | 64.9 |
| 5/1/2015 1:11:20 | 52.82 | 47.52 | 0 | 3.94 | 0.44 | 0.0 |
| 5/1/2015 1:11:21 | 53.15 | 47.85 | 141 | 4.66 | 0.47 | 7.7 |
| 5/1/2015 1:11:24 | 53.48 | 48.18 | 116 | 3.62 | 0.42 | 6.4 |
| 5/1/2015 1:11:24 | 53.81 | 48.51 | 191 | 3.31 | 0.42 | 10.4 |
| 5/1/2015 1:11:26 | 54.13 | 48.83 | 373 | 2.76 | 0.41 | 20.4 |
| 5/1/2015 1:11:26 | 54.46 | 49.16 | 476 | 3.33 | 0.41 | 26.0 |
| 5/1/2015 1:11:27 | 54.79 | 49.49 | 530 | 3.63 | 0.42 | 29.0 |
| 5/1/2015 1:11:27 | 55.12 | 49.82 | 542 | 3.71 | 0.44 | 29.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:11:29 | 55.45 | 50.15 | 505 | 4.85 | 0.43 | 27.6 |
| 5/1/2015 | 1:11:29 | 55.77 | 50.47 | 462 | 3.94 | 0.42 | 25.2 |
| 5/1/2015 | 1:11:30 | 56.10 | 50.80 | 428 | 5.65 | 0.43 | 23.4 |
| 5/1/2015 | 1:11:31 | 56.43 | 51.13 | 463 | 3.18 | 0.43 | 25.3 |
| 5/1/2015 | 1:11:32 | 56.76 | 51.46 | 463 | 2.97 | 0.46 | 25.3 |
| 5/1/2015 | 1:11:33 | 57.09 | 51.79 | 387 | 3.45 | 0.46 | 21.1 |
| 5/1/2015 | 1:11:37 | 57.41 | 52.11 | 54 | 4.12 | 0.46 | 3.0 |
| 5/1/2015 | 1:11:43 | 57.74 | 52.44 | 48 | 3.03 | 0.46 | 2.6 |
| 5/1/2015 | 1:11:47 | 58.07 | 52.77 | 95 | 3.02 | 0.46 | 5.2 |
| 5/1/2015 | 1:11:55 | 58.40 | 53.10 | 48 | 3.12 | 0.46 | 2.7 |
| 5/1/2015 | 1:12:04 | 58.73 | 53.43 | 35 | 2.77 | 0.47 | 1.9 |
| 5/1/2015 | 1:12:14 | 59.06 | 53.76 | 35 | 2.56 | 0.47 | 1.9 |
| 5/1/2015 | 1:12:15 | 59.11 | 53.81 | 37 | 2.92 | 0.46 | 2.0 |

## L107 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:09:28

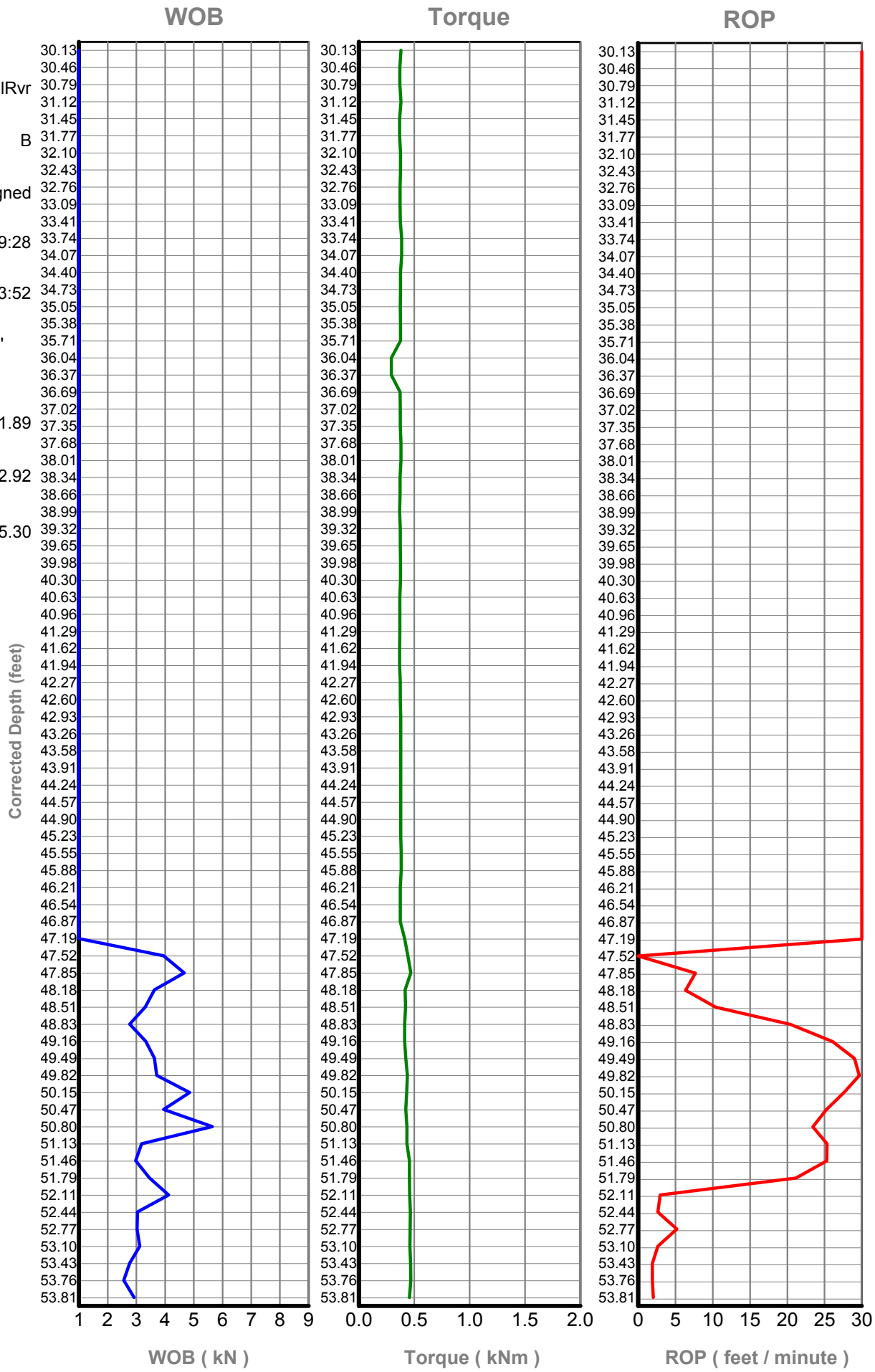
**End Date:**
5/1/2015 1:13:52

**Operator Note:**
'5.3 5.7b Auto Complete'

**Northing:**
360,081.89

**Easting:**
242,702.92

**Tide (feet):**
5.30



## Hole: L108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:09:30 | 35.76 | 30.26 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:09:30 | 36.09 | 30.59 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:31 | 36.42 | 30.92 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:09:31 | 36.75 | 31.25 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:09:31 | 37.07 | 31.57 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:32 | 37.40 | 31.90 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:32 | 37.73 | 32.23 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:32 | 38.06 | 32.56 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:09:33 | 38.39 | 32.89 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:09:33 | 38.71 | 33.21 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:33 | 39.04 | 33.54 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:09:34 | 39.37 | 33.87 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:09:34 | 39.70 | 34.20 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 1:09:34 | 40.03 | 34.53 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:35 | 40.35 | 34.85 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:35 | 40.68 | 35.18 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:35 | 41.01 | 35.51 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:36 | 41.34 | 35.84 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:36 | 41.67 | 36.17 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:36 | 41.99 | 36.49 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:09:37 | 42.32 | 36.82 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:09:37 | 42.65 | 37.15 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:37 | 42.98 | 37.48 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:37 | 43.31 | 37.81 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:09:38 | 43.64 | 38.14 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:38 | 43.96 | 38.46 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:38 | 44.29 | 38.79 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:39 | 44.62 | 39.12 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:40 | 44.95 | 39.45 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:09:40 | 45.28 | 39.78 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 1:09:40 | 45.60 | 40.10 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 1:09:41 | 45.93 | 40.43 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 1:09:41 | 46.26 | 40.76 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 1:09:41 | 46.59 | 41.09 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:09:42 | 46.92 | 41.42 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:09:42 | 47.24 | 41.74 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 1:09:42 | 47.57 | 42.07 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 1:09:43 | 47.90 | 42.40 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 1:09:43 | 48.23 | 42.73 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:43 | 48.56 | 43.06 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:43 | 48.88 | 43.38 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:44 | 49.21 | 43.71 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:44 | 49.54 | 44.04 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:44 | 49.87 | 44.37 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:09:45 | 50.20 | 44.70 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:45 | 50.53 | 45.03 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:09:45 | 50.85 | 45.35 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:09:46 | 51.18 | 45.68 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 1:09:46 | 51.51 | 46.01 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 1:09:46 | 51.84 | 46.34 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:09:47 | 52.17 | 46.67 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:09:47 | 52.49 | 46.99 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:09:47 | 52.82 | 47.32 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:09:48 | 53.15 | 47.65 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 1:09:48 | 53.48 | 47.98 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 1:09:56 | 53.81 | 48.31 | 103 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 1:09:57 | 54.13 | 48.63 | 212 | 1.14 | 0.29 | 11.6 |
| 5/1/2015 1:09:57 | 54.46 | 48.96 | 312 | 1.14 | 0.29 | 17.0 |
| 5/1/2015 1:09:58 | 54.79 | 49.29 | 429 | 1.14 | 0.29 | 23.4 |
| 5/1/2015 1:09:58 | 55.12 | 49.62 | 520 | 1.14 | 0.29 | 28.4 |
| 5/1/2015 1:10:08 | 55.45 | 49.95 | 80 | 1.14 | 0.29 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:10:09 | 55.77 | 50.27 | 177 | 1.14 | 0.29 | 9.7 |
| 5/1/2015 | 1:10:10 | 56.10 | 50.60 | 360 | 1.14 | 0.29 | 19.7 |
| 5/1/2015 | 1:10:11 | 56.43 | 50.93 | 430 | 1.14 | 0.29 | 23.5 |
| 5/1/2015 | 1:10:11 | 56.76 | 51.26 | 410 | 1.14 | 0.29 | 22.4 |
| 5/1/2015 | 1:10:12 | 57.09 | 51.59 | 436 | 1.14 | 0.29 | 23.9 |
| 5/1/2015 | 1:10:24 | 57.41 | 51.91 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 1:10:25 | 57.74 | 52.24 | 150 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 | 1:10:27 | 58.07 | 52.57 | 313 | 1.14 | 0.29 | 17.1 |
| 5/1/2015 | 1:10:27 | 58.40 | 52.90 | 395 | 1.14 | 0.29 | 21.6 |
| 5/1/2015 | 1:10:28 | 58.73 | 53.23 | 442 | 1.14 | 0.29 | 24.2 |
| 5/1/2015 | 1:10:28 | 59.06 | 53.56 | 462 | 1.14 | 0.29 | 25.3 |
| 5/1/2015 | 1:10:29 | 59.38 | 53.88 | 518 | 1.14 | 0.29 | 28.3 |
| 5/1/2015 | 1:10:30 | 59.71 | 54.21 | 556 | 1.14 | 0.29 | 30.4 |
| 5/1/2015 | 1:10:31 | 60.04 | 54.54 | 455 | 1.14 | 0.29 | 24.9 |
| 5/1/2015 | 1:10:32 | 60.37 | 54.87 | 327 | 1.14 | 0.29 | 17.9 |
| 5/1/2015 | 1:10:34 | 60.70 | 55.20 | 223 | 1.14 | 0.29 | 12.2 |
| 5/1/2015 | 1:10:34 | 60.75 | 55.25 | 223 | 1.14 | 0.29 | 12.2 |

## L108 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:08:30

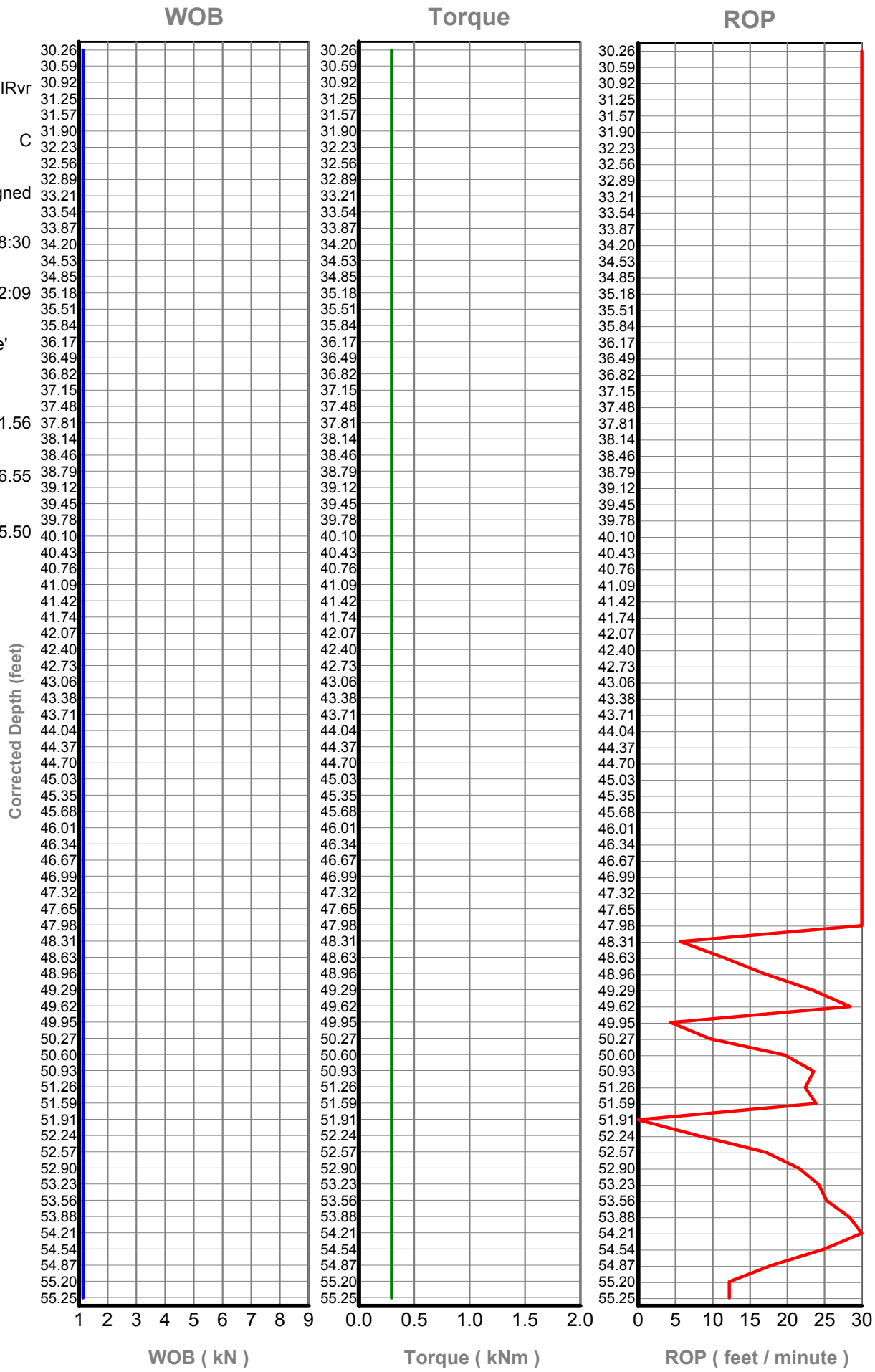
**End Date:**
5/1/2015 1:12:09

**Operator Note:**
'5.5 5.7 c Auto Complete'

**Northing:**
360,121.56

**Easting:**
242,766.55

**Tide (feet):**
5.50



## Hole: L109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:04:52 | 36.75 | 30.05 | 854 | 1.42 | 0.26 | 46.7 |
| 4/30/2015 23:04:53 | 37.07 | 30.37 | 854 | 1.41 | 0.25 | 46.7 |
| 4/30/2015 23:04:53 | 37.40 | 30.70 | 859 | 1.41 | 0.26 | 47.0 |
| 4/30/2015 23:04:54 | 37.73 | 31.03 | 859 | 1.41 | 0.26 | 47.0 |
| 4/30/2015 23:04:54 | 38.06 | 31.36 | 859 | 1.40 | 0.25 | 47.0 |
| 4/30/2015 23:04:54 | 38.39 | 31.69 | 859 | 1.40 | 0.26 | 47.0 |
| 4/30/2015 23:04:55 | 38.71 | 32.01 | 863 | 1.39 | 0.26 | 47.2 |
| 4/30/2015 23:04:55 | 39.04 | 32.34 | 867 | 1.40 | 0.26 | 47.4 |
| 4/30/2015 23:04:56 | 39.37 | 32.67 | 867 | 1.40 | 0.26 | 47.4 |
| 4/30/2015 23:04:56 | 39.70 | 33.00 | 859 | 1.40 | 0.25 | 47.0 |
| 4/30/2015 23:04:56 | 40.03 | 33.33 | 864 | 1.43 | 0.26 | 47.2 |
| 4/30/2015 23:04:57 | 40.35 | 33.65 | 851 | 1.44 | 0.26 | 46.5 |
| 4/30/2015 23:04:57 | 40.68 | 33.98 | 859 | 1.44 | 0.26 | 47.0 |
| 4/30/2015 23:04:58 | 41.01 | 34.31 | 859 | 1.44 | 0.26 | 47.0 |
| 4/30/2015 23:04:58 | 41.34 | 34.64 | 856 | 1.40 | 0.25 | 46.8 |
| 4/30/2015 23:04:58 | 41.67 | 34.97 | 853 | 1.46 | 0.26 | 46.7 |
| 4/30/2015 23:04:59 | 41.99 | 35.29 | 845 | 1.39 | 0.25 | 46.2 |
| 4/30/2015 23:05:00 | 42.32 | 35.62 | 861 | 1.40 | 0.25 | 47.1 |
| 4/30/2015 23:05:00 | 42.65 | 35.95 | 861 | 1.40 | 0.25 | 47.1 |
| 4/30/2015 23:05:00 | 42.98 | 36.28 | 850 | 1.41 | 0.25 | 46.5 |
| 4/30/2015 23:05:01 | 43.31 | 36.61 | 850 | 1.41 | 0.26 | 46.5 |
| 4/30/2015 23:05:01 | 43.64 | 36.94 | 845 | 1.39 | 0.25 | 46.2 |
| 4/30/2015 23:05:02 | 43.96 | 37.26 | 853 | 1.40 | 0.26 | 46.7 |
| 4/30/2015 23:05:02 | 44.29 | 37.59 | 847 | 1.40 | 0.25 | 46.3 |
| 4/30/2015 23:05:03 | 44.62 | 37.92 | 847 | 1.40 | 0.25 | 46.3 |
| 4/30/2015 23:05:03 | 44.95 | 38.25 | 850 | 1.82 | 0.25 | 46.5 |
| 4/30/2015 23:05:03 | 45.28 | 38.58 | 856 | 1.80 | 0.24 | 46.8 |
| 4/30/2015 23:05:04 | 45.60 | 38.90 | 856 | 1.80 | 0.24 | 46.8 |
| 4/30/2015 23:05:04 | 45.93 | 39.23 | 937 | 1.82 | 0.24 | 51.2 |
| 4/30/2015 23:05:04 | 46.26 | 39.56 | 937 | 1.82 | 0.24 | 51.2 |
| 4/30/2015 23:05:04 | 46.59 | 39.89 | 992 | 1.80 | 0.24 | 54.2 |
| 4/30/2015 23:05:05 | 46.92 | 40.22 | 1,062 | 1.78 | 0.24 | 58.1 |
| 4/30/2015 23:05:05 | 47.24 | 40.54 | 1,062 | 1.78 | 0.24 | 58.1 |
| 4/30/2015 23:05:05 | 47.57 | 40.87 | 1,125 | 1.45 | 0.24 | 61.5 |
| 4/30/2015 23:05:06 | 47.90 | 41.20 | 1,134 | 1.79 | 0.24 | 62.0 |
| 4/30/2015 23:05:06 | 48.23 | 41.53 | 1,134 | 1.79 | 0.24 | 62.0 |
| 4/30/2015 23:05:06 | 48.56 | 41.86 | 1,118 | 1.76 | 0.23 | 61.1 |
| 4/30/2015 23:05:07 | 48.88 | 42.18 | 1,118 | 1.76 | 0.23 | 61.1 |
| 4/30/2015 23:05:07 | 49.21 | 42.51 | 1,116 | 1.85 | 0.24 | 61.0 |
| 4/30/2015 23:05:07 | 49.54 | 42.84 | 1,103 | 1.83 | 0.24 | 60.3 |
| 4/30/2015 23:05:08 | 49.87 | 43.17 | 1,103 | 1.83 | 0.24 | 60.3 |
| 4/30/2015 23:05:08 | 50.20 | 43.50 | 1,116 | 1.83 | 0.24 | 61.0 |
| 4/30/2015 23:05:08 | 50.53 | 43.83 | 1,116 | 1.83 | 0.24 | 61.0 |
| 4/30/2015 23:05:08 | 50.85 | 44.15 | 1,162 | 1.83 | 0.24 | 63.5 |
| 4/30/2015 23:05:09 | 51.18 | 44.48 | 1,162 | 1.83 | 0.24 | 63.5 |
| 4/30/2015 23:05:09 | 51.51 | 44.81 | 1,178 | 1.74 | 0.23 | 64.4 |
| 4/30/2015 23:05:09 | 51.84 | 45.14 | 1,160 | 1.79 | 0.23 | 63.4 |
| 4/30/2015 23:05:10 | 52.17 | 45.47 | 1,160 | 1.79 | 0.23 | 63.4 |
| 4/30/2015 23:05:10 | 52.49 | 45.79 | 1,151 | 1.83 | 0.24 | 62.9 |
| 4/30/2015 23:05:11 | 52.82 | 46.12 | 1,148 | 1.81 | 0.24 | 62.8 |
| 4/30/2015 23:05:11 | 53.15 | 46.45 | 1,148 | 1.81 | 0.24 | 62.8 |
| 4/30/2015 23:05:11 | 53.48 | 46.78 | 1,148 | 1.13 | 0.19 | 62.8 |
| 4/30/2015 23:05:33 | 53.81 | 47.11 | 91 | 1.11 | 1.29 | 5.0 |
| 4/30/2015 23:05:34 | 54.13 | 47.43 | 198 | 1.12 | 1.23 | 10.8 |
| 4/30/2015 23:05:35 | 54.46 | 47.76 | 323 | 1.15 | 1.04 | 17.7 |
| 4/30/2015 23:05:37 | 54.79 | 48.09 | 333 | 1.21 | 1.13 | 18.2 |
| 4/30/2015 23:05:38 | 55.12 | 48.42 | 289 | 1.26 | 1.09 | 15.8 |
| 4/30/2015 23:05:59 | 55.45 | 48.75 | 43 | 1.97 | 1.13 | 2.3 |
| 4/30/2015 23:06:00 | 55.77 | 49.07 | 164 | 1.01 | 1.41 | 9.0 |
| 4/30/2015 23:06:01 | 56.10 | 49.40 | 275 | 1.06 | 1.09 | 15.0 |
| 4/30/2015 23:06:03 | 56.43 | 49.73 | 286 | 1.10 | 1.05 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:06:04 | 56.76 | 50.06 | 264 | 1.14 | 1.24 | 14.4 |
| 4/30/2015 | 23:06:06 | 57.09 | 50.39 | 246 | 1.05 | 1.21 | 13.4 |
| 4/30/2015 | 23:06:07 | 57.41 | 50.71 | 242 | 1.01 | 1.07 | 13.2 |
| 4/30/2015 | 23:06:08 | 57.74 | 51.04 | 275 | 1.00 | 1.00 | 15.1 |
| 4/30/2015 | 23:06:09 | 58.07 | 51.37 | 315 | 0.96 | 1.32 | 17.2 |
| 4/30/2015 | 23:07:01 | 58.40 | 51.70 | 0 | 1.71 | 1.77 | 0.0 |
| 4/30/2015 | 23:07:02 | 58.73 | 52.03 | 99 | 1.05 | 1.13 | 5.4 |
| 4/30/2015 | 23:07:04 | 59.06 | 52.36 | 283 | 1.03 | 0.99 | 15.5 |
| 4/30/2015 | 23:07:05 | 59.38 | 52.68 | 318 | 0.93 | 0.76 | 17.4 |
| 4/30/2015 | 23:07:06 | 59.71 | 53.01 | 302 | 1.00 | 0.98 | 16.5 |
| 4/30/2015 | 23:07:15 | 60.04 | 53.34 | 51 | 1.07 | 1.07 | 2.8 |
| 4/30/2015 | 23:07:18 | 60.37 | 53.67 | 146 | 1.01 | 1.09 | 8.0 |
| 4/30/2015 | 23:07:27 | 60.70 | 54.00 | 43 | 1.10 | 0.94 | 2.3 |
| 4/30/2015 | 23:07:42 | 61.02 | 54.32 | 33 | 1.11 | 1.01 | 1.8 |
| 4/30/2015 | 23:07:52 | 61.35 | 54.65 | 35 | 1.06 | 0.83 | 1.9 |
| 4/30/2015 | 23:08:06 | 61.67 | 54.97 | 6 | 1.08 | 1.05 | 0.3 |

## L109 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:02:56

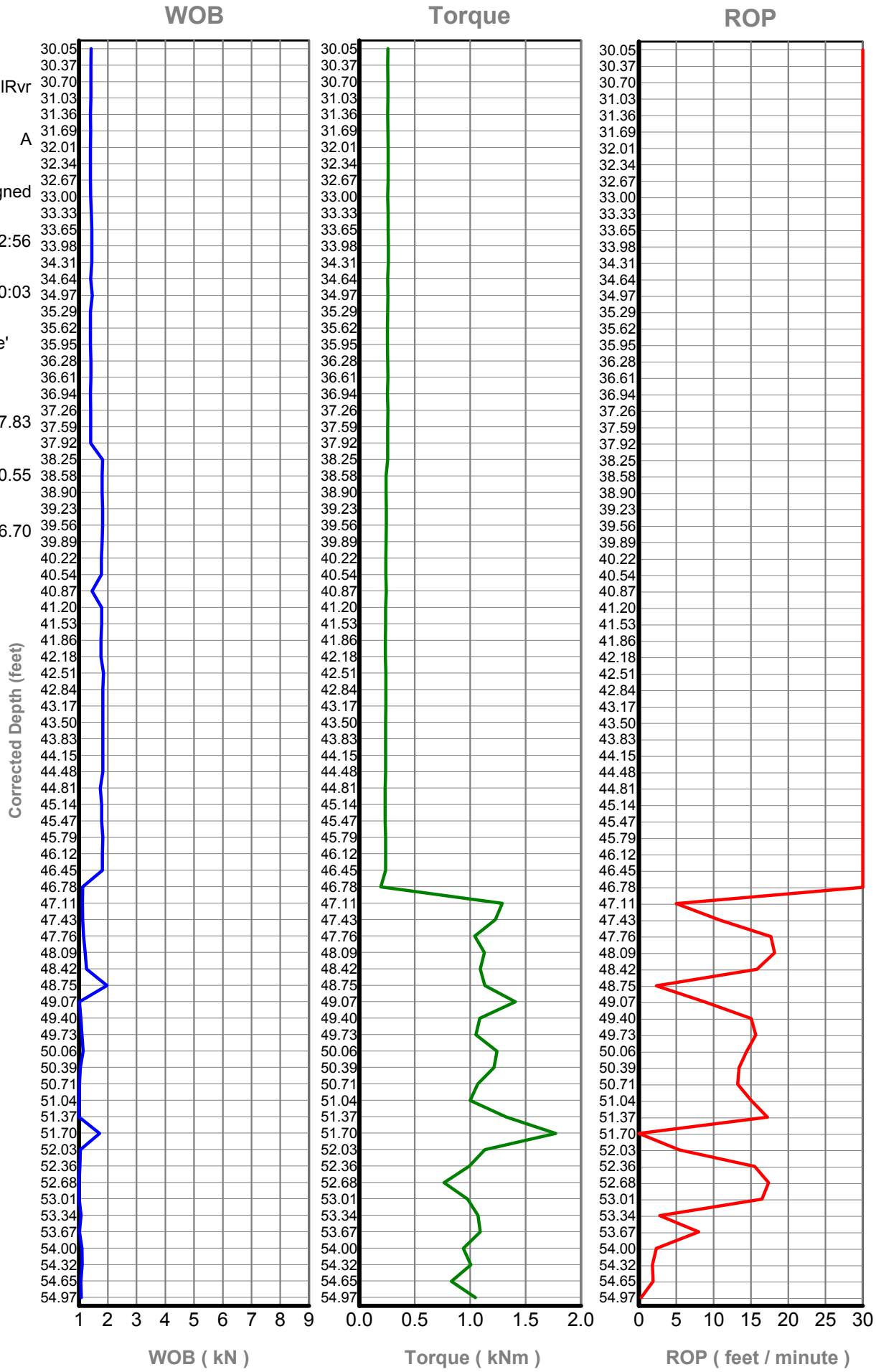
**End Date:**
4/30/2015 23:10:03

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
360,157.83

**Easting:**
242,830.55

**Tide (feet):**
6.70



## Hole: L11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:10:35 | 34.12 | 30.02 | 1,166 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:36 | 34.45 | 30.35 | 1,166 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:36 | 34.78 | 30.68 | 1,166 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:36 | 35.11 | 31.01 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 2:10:37 | 35.43 | 31.33 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 2:10:37 | 35.76 | 31.66 | 1,176 | 0.31 | 0.36 | 64.3 |
| 5/1/2015 2:10:37 | 36.09 | 31.99 | 1,176 | 0.31 | 0.36 | 64.3 |
| 5/1/2015 2:10:37 | 36.42 | 32.32 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/1/2015 2:10:38 | 36.75 | 32.65 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:38 | 37.07 | 32.97 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:38 | 37.40 | 33.30 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:39 | 37.73 | 33.63 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 2:10:39 | 38.06 | 33.96 | 1,188 | 0.31 | 0.37 | 65.0 |
| 5/1/2015 2:10:39 | 38.39 | 34.29 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 2:10:40 | 38.71 | 34.61 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 2:10:40 | 39.04 | 34.94 | 1,202 | 0.31 | 0.36 | 65.7 |
| 5/1/2015 2:10:40 | 39.37 | 35.27 | 1,202 | 0.31 | 0.36 | 65.7 |
| 5/1/2015 2:10:40 | 39.70 | 35.60 | 1,202 | 0.30 | 0.37 | 65.7 |
| 5/1/2015 2:10:41 | 40.03 | 35.93 | 1,202 | 0.30 | 0.37 | 65.7 |
| 5/1/2015 2:10:41 | 40.35 | 36.25 | 1,204 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 2:10:41 | 40.68 | 36.58 | 1,201 | 0.31 | 0.37 | 65.7 |
| 5/1/2015 2:10:42 | 41.01 | 36.91 | 1,201 | 0.31 | 0.37 | 65.7 |
| 5/1/2015 2:10:42 | 41.34 | 37.24 | 1,191 | 0.31 | 0.37 | 65.1 |
| 5/1/2015 2:10:42 | 41.67 | 37.57 | 1,191 | 0.31 | 0.37 | 65.1 |
| 5/1/2015 2:10:42 | 41.99 | 37.89 | 1,178 | 0.31 | 0.38 | 64.4 |
| 5/1/2015 2:10:43 | 42.32 | 38.22 | 1,178 | 0.31 | 0.38 | 64.4 |
| 5/1/2015 2:10:43 | 42.65 | 38.55 | 1,198 | 0.30 | 0.37 | 65.5 |
| 5/1/2015 2:10:43 | 42.98 | 38.88 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 2:10:44 | 43.31 | 39.21 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 2:10:44 | 43.64 | 39.54 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 2:10:44 | 43.96 | 39.86 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 2:10:44 | 44.29 | 40.19 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 2:10:45 | 44.62 | 40.52 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 2:10:45 | 44.95 | 40.85 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 2:10:45 | 45.28 | 41.18 | 1,198 | 0.31 | 0.37 | 65.5 |
| 5/1/2015 2:10:46 | 45.60 | 41.50 | 1,198 | 0.31 | 0.37 | 65.5 |
| 5/1/2015 2:10:46 | 45.93 | 41.83 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/1/2015 2:10:47 | 46.26 | 42.16 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/1/2015 2:10:47 | 46.59 | 42.49 | 1,203 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 2:10:47 | 46.92 | 42.82 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/1/2015 2:10:48 | 47.24 | 43.14 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/1/2015 2:10:48 | 47.57 | 43.47 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/1/2015 2:10:48 | 47.90 | 43.80 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/1/2015 2:10:48 | 48.23 | 44.13 | 1,197 | 0.31 | 0.37 | 65.4 |
| 5/1/2015 2:10:49 | 48.56 | 44.46 | 1,197 | 0.31 | 0.37 | 65.4 |
| 5/1/2015 2:10:49 | 48.88 | 44.78 | 1,187 | 0.31 | 0.38 | 64.9 |
| 5/1/2015 2:10:49 | 49.21 | 45.11 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/1/2015 2:10:50 | 49.54 | 45.44 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/1/2015 2:10:50 | 49.87 | 45.77 | 1,200 | 0.31 | 0.37 | 65.6 |
| 5/1/2015 2:10:50 | 50.20 | 46.10 | 1,200 | 0.31 | 0.37 | 65.6 |
| 5/1/2015 2:10:50 | 50.53 | 46.43 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 2:10:51 | 50.85 | 46.75 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 2:10:51 | 51.18 | 47.08 | 1,197 | 0.31 | 0.37 | 65.4 |
| 5/1/2015 2:10:51 | 51.51 | 47.41 | 1,210 | 0.30 | 0.37 | 66.2 |
| 5/1/2015 2:10:52 | 51.84 | 47.74 | 1,210 | 0.30 | 0.37 | 66.2 |
| 5/1/2015 2:10:52 | 52.17 | 48.07 | 1,204 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 2:10:52 | 52.49 | 48.39 | 1,204 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 2:10:52 | 52.82 | 48.72 | 1,194 | 0.30 | 0.40 | 65.3 |
| 5/1/2015 2:10:53 | 53.15 | 49.05 | 1,150 | 0.27 | 0.46 | 62.9 |
| 5/1/2015 2:10:56 | 53.48 | 49.38 | 0 | 2.40 | 0.39 | 0.0 |
| 5/1/2015 2:10:57 | 53.81 | 49.71 | 225 | 3.02 | 0.45 | 12.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:11:02 | 54.13 | 50.03 | 0 | 3.97 | 0.44 | 0.0 |
| 5/1/2015 | 2:11:02 | 54.46 | 50.36 | 73 | 3.10 | 0.42 | 4.0 |
| 5/1/2015 | 2:11:03 | 54.79 | 50.69 | 287 | 3.89 | 0.42 | 15.7 |
| 5/1/2015 | 2:11:04 | 55.12 | 51.02 | 384 | 3.54 | 0.43 | 21.0 |
| 5/1/2015 | 2:11:04 | 55.45 | 51.35 | 473 | 3.69 | 0.42 | 25.8 |
| 5/1/2015 | 2:11:05 | 55.77 | 51.67 | 503 | 3.60 | 0.43 | 27.5 |
| 5/1/2015 | 2:11:06 | 56.10 | 52.00 | 495 | 3.59 | 0.44 | 27.0 |
| 5/1/2015 | 2:11:07 | 56.43 | 52.33 | 491 | 3.49 | 0.44 | 26.8 |
| 5/1/2015 | 2:11:09 | 56.76 | 52.66 | 368 | 3.98 | 0.44 | 20.1 |
| 5/1/2015 | 2:11:11 | 57.09 | 52.99 | 160 | 4.04 | 0.46 | 8.7 |
| 5/1/2015 | 2:11:14 | 57.41 | 53.31 | 84 | 3.48 | 0.46 | 4.6 |
| 5/1/2015 | 2:11:19 | 57.74 | 53.64 | 90 | 3.52 | 0.46 | 4.9 |
| 5/1/2015 | 2:11:29 | 58.07 | 53.97 | 30 | 2.95 | 0.47 | 1.7 |
| 5/1/2015 | 2:11:40 | 58.40 | 54.30 | 32 | 3.05 | 0.46 | 1.7 |
| 5/1/2015 | 2:11:52 | 58.73 | 54.63 | 26 | 3.16 | 0.47 | 1.4 |
| 5/1/2015 | 2:11:54 | 58.82 | 54.72 | 32 | 3.28 | 0.46 | 1.8 |

## L11 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:09:08

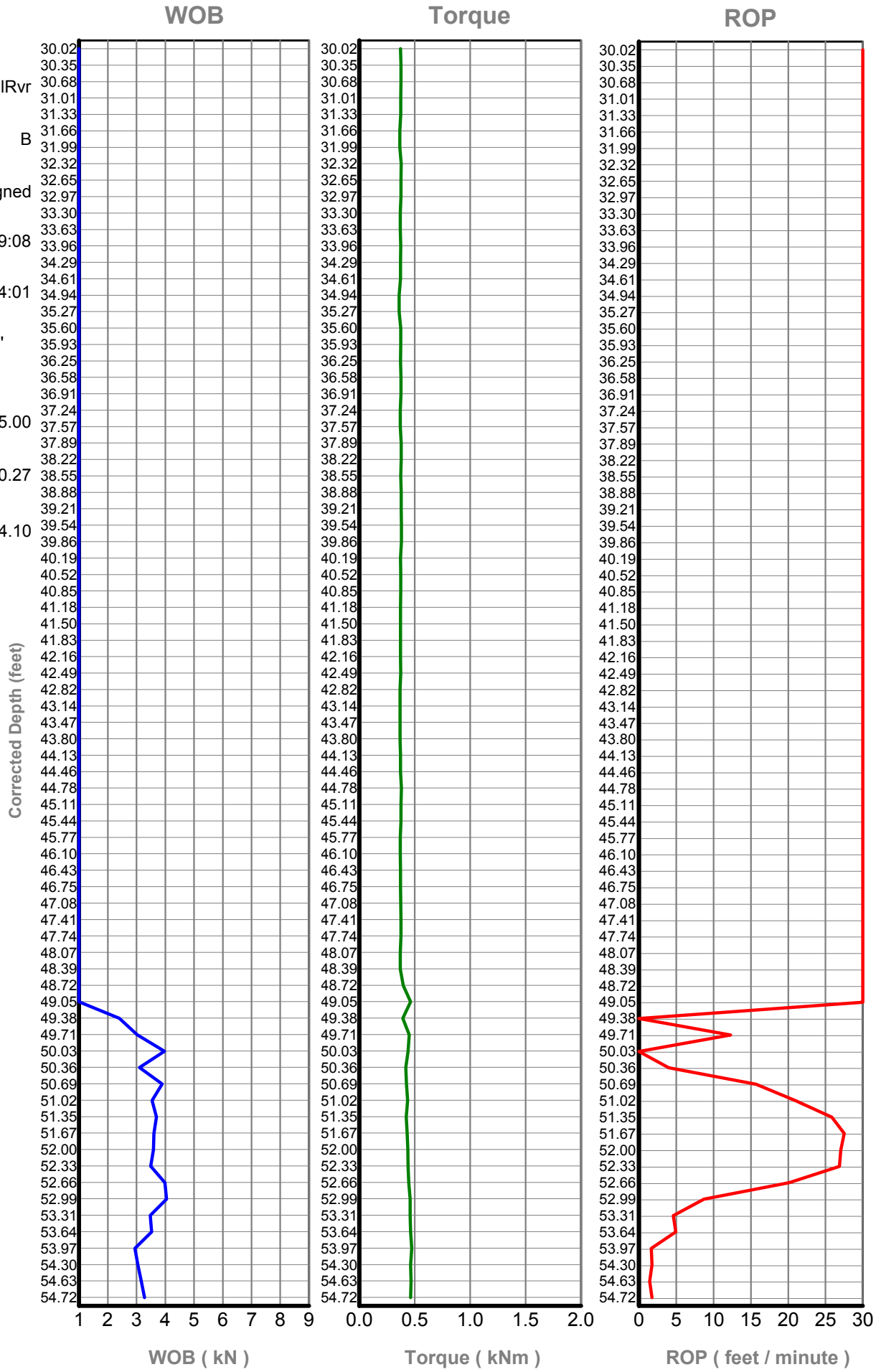
**End Date:**
5/1/2015 2:14:01

**Operator Note:**
'4.1 4.6b Auto Complete'

**Northing:**
360,395.00

**Easting:**
242,500.27

**Tide (feet):**
4.10



## Hole: L110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:05:34 | 36.75 | 30.05 | 1,171 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 23:05:35 | 37.07 | 30.37 | 1,171 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 23:05:35 | 37.40 | 30.70 | 1,171 | 0.31 | 0.38 | 64.1 |
| 4/30/2015 23:05:35 | 37.73 | 31.03 | 1,171 | 0.31 | 0.38 | 64.1 |
| 4/30/2015 23:05:35 | 38.06 | 31.36 | 1,170 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:36 | 38.39 | 31.69 | 1,170 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:36 | 38.71 | 32.01 | 1,177 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 23:05:36 | 39.04 | 32.34 | 1,179 | 0.31 | 0.38 | 64.5 |
| 4/30/2015 23:05:37 | 39.37 | 32.67 | 1,179 | 0.31 | 0.38 | 64.5 |
| 4/30/2015 23:05:37 | 39.70 | 33.00 | 1,182 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 23:05:37 | 40.03 | 33.33 | 1,182 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 23:05:38 | 40.35 | 33.65 | 1,205 | 0.31 | 0.37 | 65.9 |
| 4/30/2015 23:05:38 | 40.68 | 33.98 | 1,205 | 0.31 | 0.37 | 65.9 |
| 4/30/2015 23:05:38 | 41.01 | 34.31 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 23:05:39 | 41.34 | 34.64 | 1,200 | 0.32 | 0.37 | 65.6 |
| 4/30/2015 23:05:39 | 41.67 | 34.97 | 1,200 | 0.32 | 0.37 | 65.6 |
| 4/30/2015 23:05:39 | 41.99 | 35.29 | 1,191 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 23:05:40 | 42.32 | 35.62 | 1,191 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 23:05:40 | 42.65 | 35.95 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 23:05:40 | 42.98 | 36.28 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 23:05:40 | 43.31 | 36.61 | 1,194 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 23:05:41 | 43.64 | 36.94 | 1,197 | 0.31 | 0.36 | 65.4 |
| 4/30/2015 23:05:41 | 43.96 | 37.26 | 1,197 | 0.31 | 0.36 | 65.4 |
| 4/30/2015 23:05:41 | 44.29 | 37.59 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:42 | 44.62 | 37.92 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:42 | 44.95 | 38.25 | 1,200 | 0.31 | 0.37 | 65.6 |
| 4/30/2015 23:05:42 | 45.28 | 38.58 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:43 | 45.60 | 38.90 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:43 | 45.93 | 39.23 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:43 | 46.26 | 39.56 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 23:05:43 | 46.59 | 39.89 | 1,186 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 23:05:44 | 46.92 | 40.22 | 1,186 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 23:05:44 | 47.24 | 40.54 | 1,189 | 0.31 | 0.38 | 65.0 |
| 4/30/2015 23:05:44 | 47.57 | 40.87 | 1,183 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 23:05:45 | 47.90 | 41.20 | 1,183 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 23:05:45 | 48.23 | 41.53 | 1,185 | 0.33 | 0.37 | 64.8 |
| 4/30/2015 23:05:45 | 48.56 | 41.86 | 1,185 | 0.33 | 0.37 | 64.8 |
| 4/30/2015 23:05:45 | 48.88 | 42.18 | 1,198 | 0.30 | 0.37 | 65.5 |
| 4/30/2015 23:05:46 | 49.21 | 42.51 | 1,198 | 0.30 | 0.37 | 65.5 |
| 4/30/2015 23:05:46 | 49.54 | 42.84 | 1,198 | 0.31 | 0.38 | 65.5 |
| 4/30/2015 23:05:46 | 49.87 | 43.17 | 1,191 | 0.22 | 0.38 | 65.1 |
| 4/30/2015 23:05:47 | 50.20 | 43.50 | 1,191 | 0.22 | 0.38 | 65.1 |
| 4/30/2015 23:05:47 | 50.53 | 43.83 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 23:05:47 | 50.85 | 44.15 | 1,201 | 0.31 | 0.37 | 65.7 |
| 4/30/2015 23:05:47 | 51.18 | 44.48 | 1,195 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 23:05:48 | 51.51 | 44.81 | 1,195 | 0.31 | 0.38 | 65.3 |
| 4/30/2015 23:05:48 | 51.84 | 45.14 | 1,212 | 0.31 | 0.38 | 66.3 |
| 4/30/2015 23:05:49 | 52.17 | 45.47 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:49 | 52.49 | 45.79 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:49 | 52.82 | 46.12 | 1,200 | 0.31 | 0.36 | 65.6 |
| 4/30/2015 23:05:50 | 53.15 | 46.45 | 1,200 | 0.31 | 0.36 | 65.6 |
| 4/30/2015 23:05:50 | 53.48 | 46.78 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:50 | 53.81 | 47.11 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:05:50 | 54.13 | 47.43 | 1,188 | 0.30 | 0.43 | 65.0 |
| 4/30/2015 23:05:55 | 54.46 | 47.76 | 69 | 4.96 | 0.48 | 3.8 |
| 4/30/2015 23:06:04 | 54.79 | 48.09 | 0 | 3.61 | 0.41 | 0.0 |
| 4/30/2015 23:06:05 | 55.12 | 48.42 | 173 | 3.20 | 0.41 | 9.5 |
| 4/30/2015 23:06:05 | 55.45 | 48.75 | 293 | 3.46 | 0.42 | 16.0 |
| 4/30/2015 23:06:06 | 55.77 | 49.07 | 410 | 4.07 | 0.43 | 22.4 |
| 4/30/2015 23:06:06 | 56.10 | 49.40 | 519 | 2.63 | 0.41 | 28.4 |
| 4/30/2015 23:06:07 | 56.43 | 49.73 | 609 | 2.24 | 0.39 | 33.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:06:07 | 56.76 | 50.06 | 692 | 2.14 | 0.39 | 37.8 |
| 4/30/2015 | 23:06:08 | 57.09 | 50.39 | 620 | 2.14 | 0.39 | 33.9 |
| 4/30/2015 | 23:06:14 | 57.41 | 50.71 | 0 | 2.21 | 0.40 | 0.0 |
| 4/30/2015 | 23:06:14 | 57.74 | 51.04 | 162 | 2.82 | 0.42 | 8.8 |
| 4/30/2015 | 23:06:15 | 58.07 | 51.37 | 299 | 3.38 | 0.43 | 16.3 |
| 4/30/2015 | 23:06:16 | 58.40 | 51.70 | 516 | 2.94 | 0.44 | 28.2 |
| 4/30/2015 | 23:06:20 | 58.73 | 52.03 | 46 | 4.01 | 0.46 | 2.5 |
| 4/30/2015 | 23:06:38 | 59.06 | 52.36 | 75 | 3.17 | 0.47 | 4.1 |
| 4/30/2015 | 23:06:44 | 59.38 | 52.68 | 54 | 3.10 | 0.46 | 2.9 |
| 4/30/2015 | 23:06:52 | 59.71 | 53.01 | 49 | 2.93 | 0.47 | 2.7 |
| 4/30/2015 | 23:06:57 | 60.04 | 53.34 | 75 | 3.44 | 0.46 | 4.1 |
| 4/30/2015 | 23:07:05 | 60.37 | 53.67 | 34 | 3.12 | 0.47 | 1.9 |
| 4/30/2015 | 23:07:15 | 60.70 | 54.00 | 35 | 2.93 | 0.45 | 1.9 |
| 4/30/2015 | 23:07:25 | 61.02 | 54.32 | 32 | 3.11 | 0.46 | 1.7 |
| 4/30/2015 | 23:07:28 | 61.06 | 54.36 | 6 | 3.72 | 0.45 | 0.3 |

## L110 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:04:04

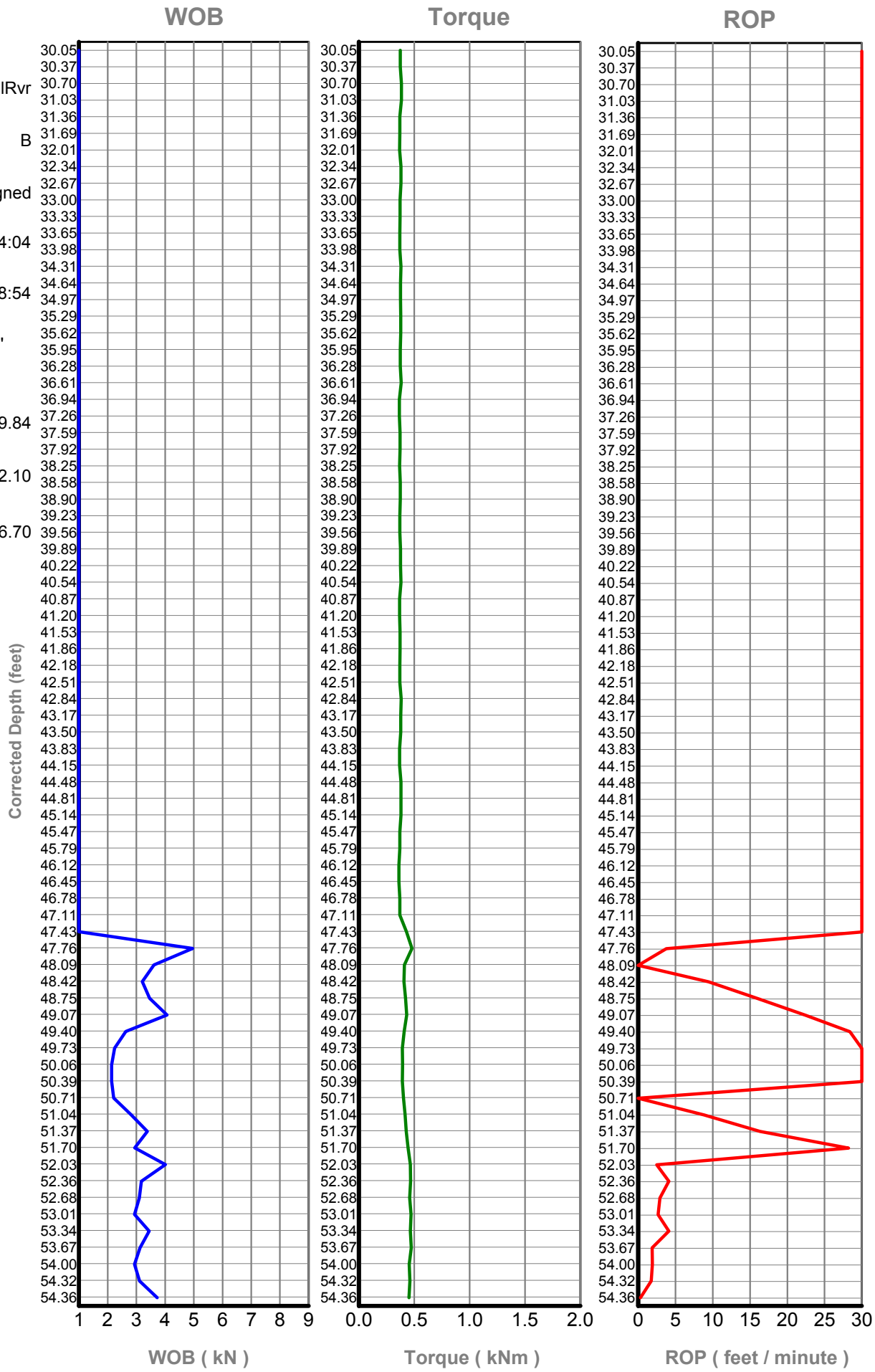
**End Date:**
4/30/2015 23:08:54

**Operator Note:**
'6.7 6.7b Auto Complete'

**Northing:**
360,199.84

**Easting:**
242,892.10

**Tide (feet):**
6.70



## Hole: L111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:04:04 | 36.75 | 30.05 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:05 | 37.07 | 30.37 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:05 | 37.40 | 30.70 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:05 | 37.73 | 31.03 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:06 | 38.06 | 31.36 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:06 | 38.39 | 31.69 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:06 | 38.71 | 32.01 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:04:07 | 39.04 | 32.34 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:07 | 39.37 | 32.67 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:07 | 39.70 | 33.00 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:08 | 40.03 | 33.33 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:08 | 40.35 | 33.65 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:08 | 40.68 | 33.98 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:09 | 41.01 | 34.31 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:09 | 41.34 | 34.64 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:10 | 41.67 | 34.97 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:10 | 41.99 | 35.29 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:10 | 42.32 | 35.62 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:04:11 | 42.65 | 35.95 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:11 | 42.98 | 36.28 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:11 | 43.31 | 36.61 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:12 | 43.64 | 36.94 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:12 | 43.96 | 37.26 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:04:12 | 44.29 | 37.59 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:13 | 44.62 | 37.92 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:13 | 44.95 | 38.25 | 1,052 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:13 | 45.28 | 38.58 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:14 | 45.60 | 38.90 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:04:14 | 45.93 | 39.23 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:04:14 | 46.26 | 39.56 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:04:15 | 46.59 | 39.89 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:04:15 | 46.92 | 40.22 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:04:15 | 47.24 | 40.54 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:04:16 | 47.57 | 40.87 | 1,045 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 23:04:16 | 47.90 | 41.20 | 1,045 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 23:04:16 | 48.23 | 41.53 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:04:17 | 48.56 | 41.86 | 1,060 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:17 | 48.88 | 42.18 | 1,060 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:04:17 | 49.21 | 42.51 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:04:18 | 49.54 | 42.84 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:04:18 | 49.87 | 43.17 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:04:18 | 50.20 | 43.50 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 23:04:19 | 50.53 | 43.83 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:04:19 | 50.85 | 44.15 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:04:19 | 51.18 | 44.48 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:04:20 | 51.51 | 44.81 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:20 | 51.84 | 45.14 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:04:20 | 52.17 | 45.47 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:04:21 | 52.49 | 45.79 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:04:21 | 52.82 | 46.12 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:04:22 | 53.15 | 46.45 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 23:04:34 | 53.48 | 46.78 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 23:04:34 | 53.81 | 47.11 | 83 | 1.14 | 0.29 | 4.5 |
| 4/30/2015 23:04:35 | 54.13 | 47.43 | 246 | 1.14 | 0.29 | 13.5 |
| 4/30/2015 23:04:37 | 54.46 | 47.76 | 329 | 1.14 | 0.29 | 18.0 |
| 4/30/2015 23:04:38 | 54.79 | 48.09 | 252 | 1.14 | 0.29 | 13.8 |
| 4/30/2015 23:04:40 | 55.12 | 48.42 | 226 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 23:04:42 | 55.45 | 48.75 | 195 | 1.14 | 0.29 | 10.7 |
| 4/30/2015 23:04:43 | 55.77 | 49.07 | 178 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 23:04:46 | 56.10 | 49.40 | 193 | 1.14 | 0.29 | 10.6 |
| 4/30/2015 23:04:48 | 56.43 | 49.73 | 169 | 1.14 | 0.29 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:04:50 | 56.76 | 50.06 | 151 | 1.14 | 0.29 | 8.3 |
| 4/30/2015 | 23:04:53 | 57.09 | 50.39 | 157 | 1.14 | 0.29 | 8.6 |
| 4/30/2015 | 23:04:54 | 57.41 | 50.71 | 172 | 1.14 | 0.29 | 9.4 |
| 4/30/2015 | 23:04:55 | 57.74 | 51.04 | 207 | 1.14 | 0.29 | 11.3 |
| 4/30/2015 | 23:04:58 | 58.07 | 51.37 | 238 | 1.14 | 0.29 | 13.0 |
| 4/30/2015 | 23:05:00 | 58.40 | 51.70 | 182 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 | 23:05:03 | 58.73 | 52.03 | 72 | 1.14 | 0.29 | 3.9 |
| 4/30/2015 | 23:05:13 | 59.06 | 52.36 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 23:05:24 | 59.38 | 52.68 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 23:05:35 | 59.71 | 53.01 | 34 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 23:05:45 | 60.04 | 53.34 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 | 23:05:51 | 60.25 | 53.55 | 32 | 1.14 | 0.29 | 1.7 |

## L111 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:02:58

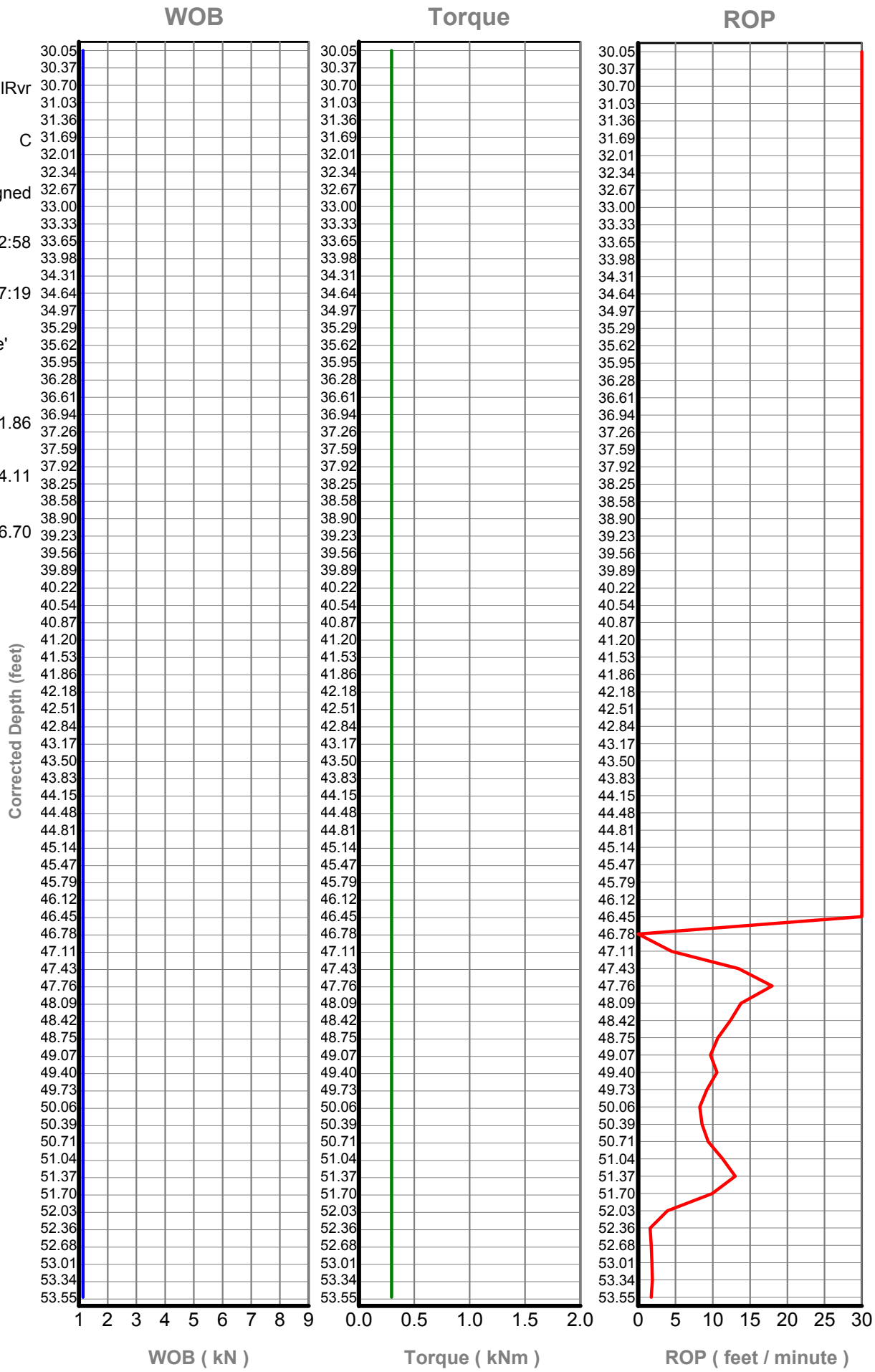
**End Date:**
4/30/2015 23:07:19

**Operator Note:**
'6.7 6.7 c Auto Complete'

**Northing:**
360,241.86

**Easting:**
242,954.11

**Tide (feet):**
6.70



## Hole: L112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:27:58 | 36.09 | 30.19 | 740 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 21:27:59 | 36.42 | 30.52 | 736 | 1.13 | 0.20 | 40.2 |
| 4/30/2015 21:27:59 | 36.75 | 30.85 | 735 | 1.13 | 0.20 | 40.2 |
| 4/30/2015 21:28:00 | 37.07 | 31.17 | 735 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 21:28:00 | 37.40 | 31.50 | 735 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 21:28:00 | 37.73 | 31.83 | 738 | 1.12 | 0.20 | 40.4 |
| 4/30/2015 21:28:01 | 38.06 | 32.16 | 738 | 1.13 | 0.20 | 40.4 |
| 4/30/2015 21:28:01 | 38.39 | 32.49 | 736 | 1.12 | 0.21 | 40.3 |
| 4/30/2015 21:28:02 | 38.71 | 32.81 | 744 | 1.13 | 0.20 | 40.7 |
| 4/30/2015 21:28:03 | 39.04 | 33.14 | 749 | 1.12 | 0.20 | 41.0 |
| 4/30/2015 21:28:03 | 39.37 | 33.47 | 741 | 1.13 | 0.20 | 40.5 |
| 4/30/2015 21:28:04 | 39.70 | 33.80 | 749 | 1.12 | 0.20 | 40.9 |
| 4/30/2015 21:28:04 | 40.03 | 34.13 | 746 | 1.13 | 0.20 | 40.8 |
| 4/30/2015 21:28:05 | 40.35 | 34.45 | 743 | 1.11 | 0.21 | 40.6 |
| 4/30/2015 21:28:05 | 40.68 | 34.78 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 21:28:06 | 41.01 | 35.11 | 740 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 21:28:06 | 41.34 | 35.44 | 737 | 1.11 | 0.20 | 40.3 |
| 4/30/2015 21:28:07 | 41.67 | 35.77 | 737 | 1.11 | 0.20 | 40.3 |
| 4/30/2015 21:28:07 | 41.99 | 36.09 | 740 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 21:28:07 | 42.32 | 36.42 | 735 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 21:28:08 | 42.65 | 36.75 | 746 | 1.11 | 0.20 | 40.8 |
| 4/30/2015 21:28:08 | 42.98 | 37.08 | 743 | 1.11 | 0.20 | 40.6 |
| 4/30/2015 21:28:09 | 43.31 | 37.41 | 743 | 1.11 | 0.20 | 40.6 |
| 4/30/2015 21:28:09 | 43.64 | 37.74 | 740 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 21:28:10 | 43.96 | 38.06 | 741 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 21:28:10 | 44.29 | 38.39 | 743 | 1.12 | 0.20 | 40.6 |
| 4/30/2015 21:28:11 | 44.62 | 38.72 | 743 | 1.12 | 0.20 | 40.6 |
| 4/30/2015 21:28:11 | 44.95 | 39.05 | 739 | 1.10 | 0.21 | 40.4 |
| 4/30/2015 21:28:12 | 45.28 | 39.38 | 746 | 1.11 | 0.20 | 40.8 |
| 4/30/2015 21:28:13 | 45.60 | 39.70 | 745 | 1.11 | 0.21 | 40.7 |
| 4/30/2015 21:28:13 | 45.93 | 40.03 | 745 | 1.11 | 0.21 | 40.7 |
| 4/30/2015 21:28:13 | 46.26 | 40.36 | 737 | 1.12 | 0.20 | 40.3 |
| 4/30/2015 21:28:16 | 46.59 | 40.69 | 100 | 1.31 | 0.26 | 5.5 |
| 4/30/2015 21:28:17 | 46.92 | 41.02 | 54 | 1.11 | 0.20 | 3.0 |
| 4/30/2015 21:28:17 | 47.24 | 41.34 | 198 | 1.11 | 0.20 | 10.8 |
| 4/30/2015 21:28:18 | 47.57 | 41.67 | 341 | 1.11 | 0.20 | 18.7 |
| 4/30/2015 21:28:18 | 47.90 | 42.00 | 491 | 1.09 | 0.20 | 26.9 |
| 4/30/2015 21:28:19 | 48.23 | 42.33 | 634 | 1.09 | 0.20 | 34.7 |
| 4/30/2015 21:28:19 | 48.56 | 42.66 | 723 | 1.09 | 0.20 | 39.5 |
| 4/30/2015 21:28:20 | 48.88 | 42.98 | 721 | 1.10 | 0.20 | 39.5 |
| 4/30/2015 21:28:20 | 49.21 | 43.31 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 21:28:21 | 49.54 | 43.64 | 719 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 21:28:21 | 49.87 | 43.97 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:28:22 | 50.20 | 44.30 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:28:22 | 50.53 | 44.63 | 730 | 1.10 | 0.20 | 39.9 |
| 4/30/2015 21:28:23 | 50.85 | 44.95 | 727 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:28:24 | 51.18 | 45.28 | 727 | 1.10 | 0.20 | 39.7 |
| 4/30/2015 21:28:24 | 51.51 | 45.61 | 727 | 1.10 | 0.20 | 39.7 |
| 4/30/2015 21:28:57 | 51.84 | 45.94 | 23 | 1.13 | 1.43 | 1.3 |
| 4/30/2015 21:29:05 | 52.17 | 46.27 | 94 | 1.08 | 1.30 | 5.2 |
| 4/30/2015 21:29:06 | 52.49 | 46.59 | 197 | 1.09 | 1.31 | 10.8 |
| 4/30/2015 21:29:16 | 52.82 | 46.92 | 38 | 1.95 | 1.93 | 2.1 |
| 4/30/2015 21:29:21 | 53.15 | 47.25 | 64 | 1.09 | 1.44 | 3.5 |
| 4/30/2015 21:29:23 | 53.48 | 47.58 | 191 | 1.02 | 1.48 | 10.4 |
| 4/30/2015 21:29:27 | 53.81 | 47.91 | 98 | 1.08 | 1.13 | 5.4 |
| 4/30/2015 21:29:31 | 54.13 | 48.23 | 79 | 1.25 | 1.10 | 4.3 |
| 4/30/2015 21:29:43 | 54.46 | 48.56 | 79 | 1.08 | 1.05 | 4.3 |
| 4/30/2015 21:29:48 | 54.79 | 48.89 | 85 | 1.13 | 1.21 | 4.6 |
| 4/30/2015 21:29:52 | 55.12 | 49.22 | 82 | 1.14 | 1.20 | 4.5 |
| 4/30/2015 21:29:58 | 55.45 | 49.55 | 64 | 1.14 | 1.05 | 3.5 |
| 4/30/2015 21:30:03 | 55.77 | 49.87 | 59 | 1.12 | 1.01 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:30:09 | 56.10 | 50.20 | 62 | 1.07 | 1.08 | 3.4 |
| 4/30/2015 | 21:30:15 | 56.43 | 50.53 | 62 | 1.07 | 1.13 | 3.4 |
| 4/30/2015 | 21:30:21 | 56.76 | 50.86 | 58 | 1.17 | 1.03 | 3.2 |
| 4/30/2015 | 21:30:23 | 56.92 | 51.02 | 66 | 1.16 | 1.13 | 3.6 |

## L112 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:25:46

**End Date:**
4/30/2015 21:32:04

**Operator Note:**
'5.9 5.7 b Auto Complete'

**Northing:**
360,279.08

**Easting:**
243,023.17

**Tide (feet):**
5.90



## Hole: L113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:28:12 | 36.09 | 30.19 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 21:28:12 | 36.42 | 30.52 | 1,119 | 0.33 | 0.46 | 61.2 |
| 4/30/2015 21:28:13 | 36.75 | 30.85 | 1,119 | 0.33 | 0.46 | 61.2 |
| 4/30/2015 21:28:13 | 37.07 | 31.17 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 21:28:13 | 37.40 | 31.50 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 21:28:13 | 37.73 | 31.83 | 1,110 | 0.33 | 0.38 | 60.7 |
| 4/30/2015 21:28:14 | 38.06 | 32.16 | 1,106 | 0.33 | 0.39 | 60.5 |
| 4/30/2015 21:28:14 | 38.39 | 32.49 | 1,106 | 0.33 | 0.39 | 60.5 |
| 4/30/2015 21:28:14 | 38.71 | 32.81 | 1,119 | 0.37 | 0.38 | 61.2 |
| 4/30/2015 21:28:15 | 39.04 | 33.14 | 1,119 | 0.37 | 0.38 | 61.2 |
| 4/30/2015 21:28:15 | 39.37 | 33.47 | 1,113 | 0.44 | 0.39 | 60.9 |
| 4/30/2015 21:28:15 | 39.70 | 33.80 | 1,107 | 0.35 | 0.38 | 60.5 |
| 4/30/2015 21:28:16 | 40.03 | 34.13 | 1,107 | 0.35 | 0.38 | 60.5 |
| 4/30/2015 21:28:16 | 40.35 | 34.45 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:28:17 | 40.68 | 34.78 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:28:17 | 41.01 | 35.11 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:28:17 | 41.34 | 35.44 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 21:28:18 | 41.67 | 35.77 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 21:28:18 | 41.99 | 36.09 | 1,118 | 0.35 | 0.37 | 61.2 |
| 4/30/2015 21:28:18 | 42.32 | 36.42 | 1,124 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 21:28:19 | 42.65 | 36.75 | 1,124 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 21:28:19 | 42.98 | 37.08 | 1,133 | 0.35 | 0.38 | 62.0 |
| 4/30/2015 21:28:19 | 43.31 | 37.41 | 1,133 | 0.35 | 0.38 | 62.0 |
| 4/30/2015 21:28:19 | 43.64 | 37.74 | 1,128 | 0.33 | 0.38 | 61.7 |
| 4/30/2015 21:28:20 | 43.96 | 38.06 | 1,130 | 0.37 | 0.38 | 61.8 |
| 4/30/2015 21:28:20 | 44.29 | 38.39 | 1,130 | 0.37 | 0.38 | 61.8 |
| 4/30/2015 21:28:20 | 44.62 | 38.72 | 1,130 | 0.34 | 0.37 | 61.8 |
| 4/30/2015 21:28:21 | 44.95 | 39.05 | 1,130 | 0.34 | 0.37 | 61.8 |
| 4/30/2015 21:28:21 | 45.28 | 39.38 | 1,130 | 0.41 | 0.39 | 61.8 |
| 4/30/2015 21:28:21 | 45.60 | 39.70 | 1,119 | 0.34 | 0.38 | 61.2 |
| 4/30/2015 21:28:22 | 45.93 | 40.03 | 1,119 | 0.34 | 0.38 | 61.2 |
| 4/30/2015 21:28:22 | 46.26 | 40.36 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 21:28:22 | 46.59 | 40.69 | 1,122 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 21:28:22 | 46.92 | 41.02 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 21:28:23 | 47.24 | 41.34 | 1,127 | 0.32 | 0.38 | 61.6 |
| 4/30/2015 21:28:23 | 47.57 | 41.67 | 1,127 | 0.32 | 0.38 | 61.6 |
| 4/30/2015 21:28:23 | 47.90 | 42.00 | 1,127 | 0.33 | 0.37 | 61.6 |
| 4/30/2015 21:28:24 | 48.23 | 42.33 | 1,127 | 0.33 | 0.37 | 61.6 |
| 4/30/2015 21:28:24 | 48.56 | 42.66 | 1,120 | 0.33 | 0.38 | 61.3 |
| 4/30/2015 21:28:24 | 48.88 | 42.98 | 1,137 | 0.33 | 0.38 | 62.2 |
| 4/30/2015 21:28:25 | 49.21 | 43.31 | 1,137 | 0.33 | 0.38 | 62.2 |
| 4/30/2015 21:28:25 | 49.54 | 43.64 | 1,149 | 0.33 | 0.37 | 62.9 |
| 4/30/2015 21:28:25 | 49.87 | 43.97 | 1,149 | 0.33 | 0.37 | 62.9 |
| 4/30/2015 21:28:25 | 50.20 | 44.30 | 1,140 | 0.33 | 0.38 | 62.3 |
| 4/30/2015 21:28:26 | 50.53 | 44.63 | 1,146 | 0.33 | 0.38 | 62.7 |
| 4/30/2015 21:28:27 | 50.85 | 44.95 | 1,146 | 0.33 | 0.38 | 62.7 |
| 4/30/2015 21:28:27 | 51.18 | 45.28 | 1,149 | 0.33 | 0.38 | 62.8 |
| 4/30/2015 21:28:27 | 51.51 | 45.61 | 1,142 | 0.33 | 0.38 | 62.5 |
| 4/30/2015 21:28:28 | 51.84 | 45.94 | 1,142 | 0.33 | 0.38 | 62.5 |
| 4/30/2015 21:28:28 | 52.17 | 46.27 | 1,136 | 0.33 | 0.38 | 62.1 |
| 4/30/2015 21:28:28 | 52.49 | 46.59 | 1,136 | 0.33 | 0.38 | 62.1 |
| 4/30/2015 21:28:28 | 52.82 | 46.92 | 1,133 | 0.33 | 0.38 | 62.0 |
| 4/30/2015 21:28:29 | 53.15 | 47.25 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/30/2015 21:28:29 | 53.48 | 47.58 | 1,127 | 0.33 | 0.38 | 61.6 |
| 4/30/2015 21:28:29 | 53.81 | 47.91 | 1,140 | 0.32 | 0.38 | 62.3 |
| 4/30/2015 21:28:30 | 54.13 | 48.23 | 1,140 | 0.32 | 0.38 | 62.3 |
| 4/30/2015 21:28:30 | 54.46 | 48.56 | 1,130 | 0.35 | 0.40 | 61.8 |
| 4/30/2015 21:28:34 | 54.79 | 48.89 | 63 | 4.23 | 0.47 | 3.4 |
| 4/30/2015 21:28:37 | 55.12 | 49.22 | 161 | 3.87 | 0.45 | 8.8 |
| 4/30/2015 21:28:39 | 55.45 | 49.55 | 201 | 4.24 | 0.43 | 11.0 |
| 4/30/2015 21:28:42 | 55.77 | 49.87 | 104 | 4.46 | 0.48 | 5.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/30/2015 21:28:56 | 56.10 | 50.20 | 116 | 4.17 | 0.45 | 6.3 |
| 4/30/2015 21:29:00 | 56.43 | 50.53 | 118 | 5.14 | 0.46 | 6.4 |
| 4/30/2015 21:29:15 | 56.76 | 50.86 | 74 | 3.15 | 0.47 | 4.0 |
| 4/30/2015 21:29:19 | 57.09 | 51.19 | 89 | 3.63 | 0.47 | 4.8 |
| 4/30/2015 21:29:24 | 57.41 | 51.51 | 69 | 3.52 | 0.46 | 3.8 |
| 4/30/2015 21:29:28 | 57.74 | 51.84 | 72 | 3.74 | 0.46 | 4.0 |
| 4/30/2015 21:29:34 | 58.07 | 52.17 | 62 | 3.58 | 0.47 | 3.4 |
| 4/30/2015 21:29:40 | 58.40 | 52.50 | 66 | 3.46 | 0.47 | 3.6 |
| 4/30/2015 21:29:41 | 58.46 | 52.56 | 64 | 3.41 | 0.47 | 3.5 |

## L113 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:26:41

**End Date:**
4/30/2015 21:31:16

**Operator Note:**
'5.9 5.6b Auto Complete'

**Northing:**
360,318.35

**Easting:**
243,087.07

**Tide (feet):**
5.90



## Hole: L114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:26:33 | 36.09 | 30.19 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:34 | 36.42 | 30.52 | 978 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:34 | 36.75 | 30.85 | 978 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:34 | 37.07 | 31.17 | 978 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:35 | 37.40 | 31.50 | 988 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 21:26:35 | 37.73 | 31.83 | 988 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 21:26:35 | 38.06 | 32.16 | 988 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 21:26:36 | 38.39 | 32.49 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 21:26:36 | 38.71 | 32.81 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 21:26:36 | 39.04 | 33.14 | 985 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 21:26:37 | 39.37 | 33.47 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 21:26:37 | 39.70 | 33.80 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:38 | 40.03 | 34.13 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:38 | 40.35 | 34.45 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:39 | 40.68 | 34.78 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:39 | 41.01 | 35.11 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:39 | 41.34 | 35.44 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:40 | 41.67 | 35.77 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:40 | 41.99 | 36.09 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:40 | 42.32 | 36.42 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:41 | 42.65 | 36.75 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:41 | 42.98 | 37.08 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:42 | 43.31 | 37.41 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:42 | 43.64 | 37.74 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:42 | 43.96 | 38.06 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:43 | 44.29 | 38.39 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:43 | 44.62 | 38.72 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 21:26:43 | 44.95 | 39.05 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:44 | 45.28 | 39.38 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:44 | 45.60 | 39.70 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:44 | 45.93 | 40.03 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:45 | 46.26 | 40.36 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 21:26:45 | 46.59 | 40.69 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:45 | 46.92 | 41.02 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:46 | 47.24 | 41.34 | 978 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:46 | 47.57 | 41.67 | 978 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:46 | 47.90 | 42.00 | 972 | 1.14 | 0.29 | 53.1 |
| 4/30/2015 21:26:47 | 48.23 | 42.33 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 21:26:47 | 48.56 | 42.66 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 21:26:47 | 48.88 | 42.98 | 976 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 21:26:48 | 49.21 | 43.31 | 976 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 21:26:48 | 49.54 | 43.64 | 976 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 21:26:48 | 49.87 | 43.97 | 982 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 21:26:49 | 50.20 | 44.30 | 982 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 21:26:50 | 50.53 | 44.63 | 979 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:50 | 50.85 | 44.95 | 979 | 1.14 | 0.29 | 53.5 |
| 4/30/2015 21:26:50 | 51.18 | 45.28 | 973 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 21:26:51 | 51.51 | 45.61 | 973 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 21:26:51 | 51.84 | 45.94 | 973 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 21:26:51 | 52.17 | 46.27 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 21:26:52 | 52.49 | 46.59 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 21:26:52 | 52.82 | 46.92 | 984 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 21:26:52 | 53.15 | 47.25 | 1,001 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 21:26:53 | 53.48 | 47.58 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:26:53 | 53.81 | 47.91 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:54 | 54.13 | 48.23 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:54 | 54.46 | 48.56 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 21:26:54 | 54.79 | 48.89 | 993 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 21:26:55 | 55.12 | 49.22 | 993 | 1.14 | 0.29 | 54.3 |
| 4/30/2015 21:26:55 | 55.45 | 49.55 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 21:27:08 | 55.77 | 49.87 | 103 | 1.14 | 0.29 | 5.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/30/2015 21:27:09 | 56.10 | 50.20 | 230 | 1.14 | 0.29 | 12.6 |
| 4/30/2015 21:27:10 | 56.43 | 50.53 | 377 | 1.14 | 0.29 | 20.6 |
| 4/30/2015 21:27:10 | 56.76 | 50.86 | 363 | 1.14 | 0.29 | 19.8 |
| 4/30/2015 21:27:11 | 57.09 | 51.19 | 415 | 1.14 | 0.29 | 22.7 |
| 4/30/2015 21:27:16 | 57.41 | 51.51 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 21:27:18 | 57.74 | 51.84 | 244 | 1.14 | 0.29 | 13.3 |
| 4/30/2015 21:27:18 | 58.07 | 52.17 | 356 | 1.14 | 0.29 | 19.5 |
| 4/30/2015 21:27:19 | 58.40 | 52.50 | 357 | 1.14 | 0.29 | 19.5 |
| 4/30/2015 21:27:20 | 58.73 | 52.83 | 422 | 1.14 | 0.29 | 23.1 |
| 4/30/2015 21:27:21 | 59.06 | 53.16 | 402 | 1.14 | 0.29 | 22.0 |
| 4/30/2015 21:27:42 | 59.38 | 53.48 | 56 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 21:27:43 | 59.71 | 53.81 | 236 | 1.14 | 0.29 | 12.9 |
| 4/30/2015 21:27:43 | 60.04 | 54.14 | 333 | 1.14 | 0.29 | 18.2 |
| 4/30/2015 21:27:44 | 60.37 | 54.47 | 453 | 1.14 | 0.29 | 24.7 |
| 4/30/2015 21:27:44 | 60.70 | 54.80 | 547 | 1.14 | 0.29 | 29.9 |
| 4/30/2015 21:27:45 | 61.02 | 55.12 | 603 | 1.14 | 0.29 | 33.0 |
| 4/30/2015 21:27:45 | 61.25 | 55.35 | 603 | 1.14 | 0.29 | 33.0 |

## L114 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:25:24

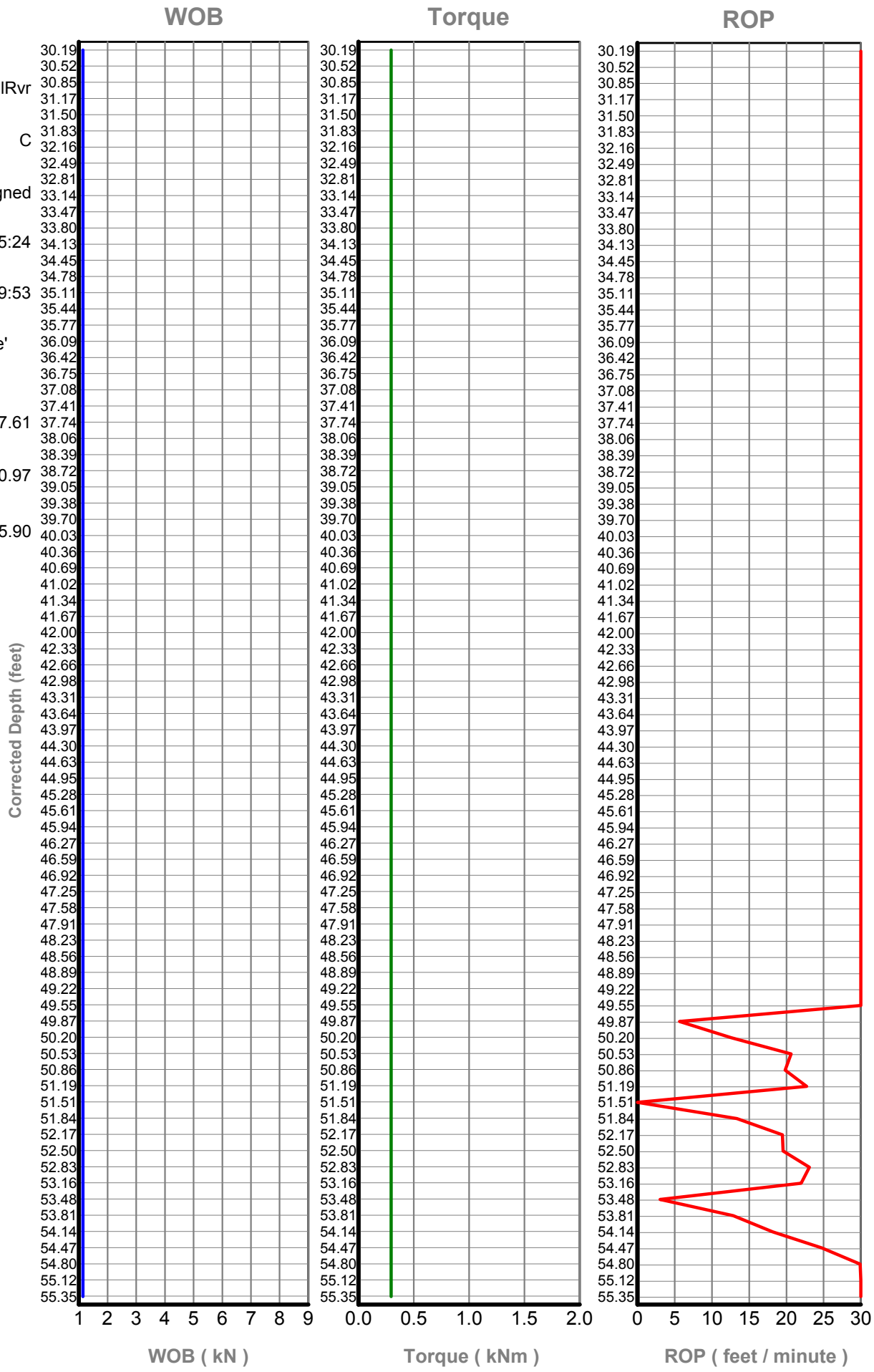
**End Date:**
4/30/2015 21:29:53

**Operator Note:**
'5.9 5.6 c Auto Complete'

**Northing:**
360,357.61

**Easting:**
243,150.97

**Tide (feet):**
5.90



## Hole: L115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:49:50 | 31.17 | 30.17 | 0 | 1.19 | 0.16 | 0.0 |
| 4/30/2015 17:49:51 | 31.50 | 30.50 | 94 | 1.17 | 0.16 | 5.1 |
| 4/30/2015 17:49:52 | 31.82 | 30.82 | 257 | 1.18 | 0.16 | 14.0 |
| 4/30/2015 17:49:52 | 32.15 | 31.15 | 442 | 1.19 | 0.16 | 24.2 |
| 4/30/2015 17:49:53 | 32.48 | 31.48 | 442 | 1.19 | 0.16 | 24.2 |
| 4/30/2015 17:49:53 | 32.81 | 31.81 | 442 | 1.19 | 0.16 | 24.2 |
| 4/30/2015 17:49:53 | 33.14 | 32.14 | 626 | 1.19 | 0.16 | 34.2 |
| 4/30/2015 17:49:54 | 33.46 | 32.46 | 806 | 1.17 | 0.16 | 44.0 |
| 4/30/2015 17:49:54 | 33.79 | 32.79 | 806 | 1.17 | 0.16 | 44.0 |
| 4/30/2015 17:49:54 | 34.12 | 33.12 | 881 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 17:49:55 | 34.45 | 33.45 | 883 | 1.17 | 0.16 | 48.3 |
| 4/30/2015 17:49:55 | 34.78 | 33.78 | 883 | 1.16 | 0.16 | 48.3 |
| 4/30/2015 17:49:56 | 35.11 | 34.11 | 889 | 1.18 | 0.16 | 48.6 |
| 4/30/2015 17:49:56 | 35.43 | 34.43 | 889 | 1.18 | 0.16 | 48.6 |
| 4/30/2015 17:49:56 | 35.76 | 34.76 | 884 | 1.18 | 0.16 | 48.3 |
| 4/30/2015 17:49:57 | 36.09 | 35.09 | 879 | 1.17 | 0.16 | 48.1 |
| 4/30/2015 17:49:57 | 36.42 | 35.42 | 884 | 1.19 | 0.16 | 48.3 |
| 4/30/2015 17:49:58 | 36.75 | 35.75 | 884 | 1.19 | 0.16 | 48.3 |
| 4/30/2015 17:49:58 | 37.07 | 36.07 | 901 | 1.17 | 0.16 | 49.3 |
| 4/30/2015 17:49:58 | 37.40 | 36.40 | 887 | 1.19 | 0.16 | 48.5 |
| 4/30/2015 17:49:59 | 37.73 | 36.73 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 17:49:59 | 38.06 | 37.06 | 890 | 1.19 | 0.16 | 48.7 |
| 4/30/2015 17:50:00 | 38.39 | 37.39 | 890 | 1.19 | 0.16 | 48.7 |
| 4/30/2015 17:50:00 | 38.71 | 37.71 | 893 | 1.18 | 0.16 | 48.8 |
| 4/30/2015 17:50:00 | 39.04 | 38.04 | 893 | 1.18 | 0.16 | 48.8 |
| 4/30/2015 17:50:01 | 39.37 | 38.37 | 890 | 1.19 | 0.16 | 48.7 |
| 4/30/2015 17:50:02 | 39.70 | 38.70 | 890 | 1.19 | 0.16 | 48.7 |
| 4/30/2015 17:50:02 | 40.03 | 39.03 | 890 | 1.17 | 0.16 | 48.7 |
| 4/30/2015 17:50:02 | 40.35 | 39.35 | 885 | 1.18 | 0.16 | 48.4 |
| 4/30/2015 17:50:03 | 40.68 | 39.68 | 887 | 1.19 | 0.16 | 48.5 |
| 4/30/2015 17:50:03 | 41.01 | 40.01 | 887 | 1.19 | 0.16 | 48.5 |
| 4/30/2015 17:50:03 | 41.34 | 40.34 | 885 | 1.16 | 0.16 | 48.4 |
| 4/30/2015 17:50:04 | 41.67 | 40.67 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 17:50:04 | 41.99 | 40.99 | 885 | 1.18 | 0.16 | 48.4 |
| 4/30/2015 17:50:05 | 42.32 | 41.32 | 887 | 1.17 | 0.16 | 48.5 |
| 4/30/2015 17:50:05 | 42.65 | 41.65 | 887 | 1.17 | 0.16 | 48.5 |
| 4/30/2015 17:50:05 | 42.98 | 41.98 | 882 | 1.19 | 0.16 | 48.2 |
| 4/30/2015 17:50:06 | 43.31 | 42.31 | 876 | 1.18 | 0.16 | 47.9 |
| 4/30/2015 17:50:06 | 43.64 | 42.64 | 887 | 1.19 | 0.16 | 48.5 |
| 4/30/2015 17:50:07 | 43.96 | 42.96 | 887 | 1.19 | 0.16 | 48.5 |
| 4/30/2015 17:50:07 | 44.29 | 43.29 | 875 | 1.17 | 0.16 | 47.9 |
| 4/30/2015 17:50:07 | 44.62 | 43.62 | 875 | 1.19 | 0.16 | 47.9 |
| 4/30/2015 17:50:08 | 44.95 | 43.95 | 876 | 1.21 | 0.16 | 47.9 |
| 4/30/2015 17:50:08 | 45.28 | 44.28 | 884 | 1.19 | 0.16 | 48.4 |
| 4/30/2015 17:50:09 | 45.60 | 44.60 | 884 | 1.19 | 0.16 | 48.4 |
| 4/30/2015 17:50:09 | 45.93 | 44.93 | 882 | 1.19 | 0.17 | 48.2 |
| 4/30/2015 17:50:09 | 46.26 | 45.26 | 870 | 1.19 | 0.16 | 47.6 |
| 4/30/2015 17:50:10 | 46.59 | 45.59 | 880 | 1.14 | 0.16 | 48.1 |
| 4/30/2015 17:50:10 | 46.92 | 45.92 | 880 | 1.14 | 0.16 | 48.1 |
| 4/30/2015 17:50:10 | 47.24 | 46.24 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 17:50:11 | 47.57 | 46.57 | 876 | 1.16 | 0.16 | 47.9 |
| 4/30/2015 17:50:11 | 47.90 | 46.90 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 17:50:12 | 48.23 | 47.23 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 17:50:13 | 48.56 | 47.56 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 17:50:13 | 48.88 | 47.88 | 887 | 1.17 | 0.17 | 48.5 |
| 4/30/2015 17:50:13 | 49.21 | 48.21 | 876 | 1.32 | 0.16 | 47.9 |
| 4/30/2015 17:50:21 | 49.54 | 48.54 | 45 | 1.19 | 0.88 | 2.4 |
| 4/30/2015 17:50:21 | 49.87 | 48.87 | 45 | 1.19 | 1.06 | 2.4 |
| 4/30/2015 17:50:22 | 50.20 | 49.20 | 160 | 1.16 | 0.81 | 8.8 |
| 4/30/2015 17:50:23 | 50.53 | 49.53 | 381 | 1.19 | 0.97 | 20.8 |
| 4/30/2015 17:50:24 | 50.85 | 49.85 | 475 | 1.17 | 1.07 | 26.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:50:25 | 51.18 | 50.18 | 449 | 1.18 | 1.11 | 24.5 |
| 4/30/2015 | 17:50:26 | 51.51 | 50.51 | 370 | 1.16 | 1.03 | 20.2 |
| 4/30/2015 | 17:50:28 | 51.84 | 50.84 | 285 | 1.18 | 1.45 | 15.6 |
| 4/30/2015 | 17:50:30 | 52.17 | 51.17 | 171 | 1.21 | 1.02 | 9.4 |
| 4/30/2015 | 17:50:31 | 52.49 | 51.49 | 225 | 1.16 | 0.84 | 12.3 |
| 4/30/2015 | 17:50:32 | 52.82 | 51.82 | 314 | 1.17 | 0.87 | 17.2 |
| 4/30/2015 | 17:50:33 | 53.15 | 52.15 | 372 | 1.42 | 0.82 | 20.3 |
| 4/30/2015 | 17:50:35 | 53.48 | 52.48 | 251 | 1.17 | 0.84 | 13.7 |
| 4/30/2015 | 17:50:36 | 53.81 | 52.81 | 239 | 1.18 | 0.83 | 13.0 |
| 4/30/2015 | 17:50:37 | 54.13 | 53.13 | 273 | 1.18 | 0.87 | 14.9 |
| 4/30/2015 | 17:50:39 | 54.46 | 53.46 | 216 | 1.18 | 0.85 | 11.8 |
| 4/30/2015 | 17:50:41 | 54.79 | 53.79 | 220 | 1.17 | 0.82 | 12.0 |
| 4/30/2015 | 17:50:42 | 55.12 | 54.12 | 245 | 1.17 | 0.81 | 13.4 |
| 4/30/2015 | 17:50:43 | 55.45 | 54.45 | 268 | 1.16 | 0.79 | 14.7 |
| 4/30/2015 | 17:50:44 | 55.77 | 54.77 | 320 | 1.16 | 0.81 | 17.5 |
| 4/30/2015 | 17:50:45 | 56.10 | 55.10 | 349 | 1.15 | 0.80 | 19.1 |
| 4/30/2015 | 17:50:45 | 56.20 | 55.20 | 349 | 1.15 | 0.80 | 19.1 |

## L115 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:48:27

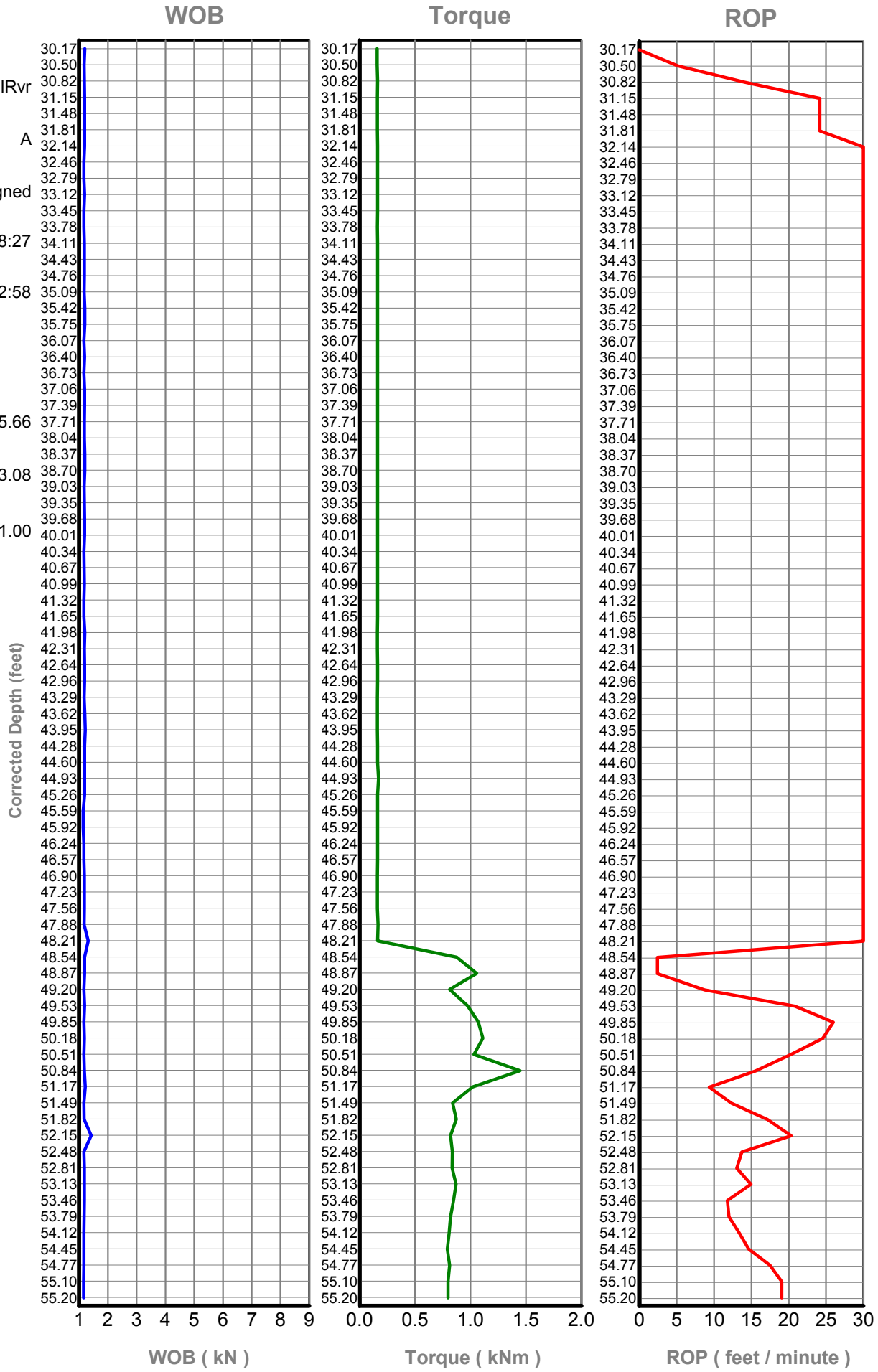
**End Date:**
4/30/2015 17:52:58

**Operator Note:**
'1 1.1 a Auto Complete'

**Northing:**
360,395.66

**Easting:**
243,213.08

**Tide (feet):**
1.00



## Hole: L116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:49:37 | 31.17 | 30.17 | 1,258 | 0.28 | 0.37 | 68.8 |
| 4/30/2015 17:49:37 | 31.50 | 30.50 | 1,258 | 0.28 | 0.37 | 68.8 |
| 4/30/2015 17:49:37 | 31.82 | 30.82 | 1,255 | 0.29 | 0.37 | 68.6 |
| 4/30/2015 17:49:38 | 32.15 | 31.15 | 1,255 | 0.29 | 0.37 | 68.6 |
| 4/30/2015 17:49:38 | 32.48 | 31.48 | 1,242 | 0.29 | 0.36 | 67.9 |
| 4/30/2015 17:49:38 | 32.81 | 31.81 | 1,250 | 0.28 | 0.37 | 68.4 |
| 4/30/2015 17:49:39 | 33.14 | 32.14 | 1,250 | 0.28 | 0.37 | 68.4 |
| 4/30/2015 17:49:39 | 33.46 | 32.46 | 1,244 | 0.29 | 0.36 | 68.0 |
| 4/30/2015 17:49:39 | 33.79 | 32.79 | 1,244 | 0.29 | 0.36 | 68.0 |
| 4/30/2015 17:49:39 | 34.12 | 33.12 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:40 | 34.45 | 33.45 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:40 | 34.78 | 33.78 | 1,257 | 0.29 | 0.37 | 68.8 |
| 4/30/2015 17:49:40 | 35.11 | 34.11 | 1,257 | 0.29 | 0.37 | 68.8 |
| 4/30/2015 17:49:40 | 35.43 | 34.43 | 1,270 | 0.29 | 0.37 | 69.5 |
| 4/30/2015 17:49:41 | 35.76 | 34.76 | 1,270 | 0.29 | 0.37 | 69.5 |
| 4/30/2015 17:49:41 | 36.09 | 35.09 | 1,259 | 0.28 | 0.36 | 68.8 |
| 4/30/2015 17:49:41 | 36.42 | 35.42 | 1,259 | 0.29 | 0.36 | 68.9 |
| 4/30/2015 17:49:42 | 36.75 | 35.75 | 1,259 | 0.29 | 0.36 | 68.9 |
| 4/30/2015 17:49:42 | 37.07 | 36.07 | 1,245 | 0.29 | 0.36 | 68.1 |
| 4/30/2015 17:49:42 | 37.40 | 36.40 | 1,245 | 0.29 | 0.36 | 68.1 |
| 4/30/2015 17:49:42 | 37.73 | 36.73 | 1,245 | 0.29 | 0.37 | 68.1 |
| 4/30/2015 17:49:43 | 38.06 | 37.06 | 1,245 | 0.29 | 0.37 | 68.1 |
| 4/30/2015 17:49:43 | 38.39 | 37.39 | 1,247 | 0.29 | 0.37 | 68.2 |
| 4/30/2015 17:49:43 | 38.71 | 37.71 | 1,247 | 0.29 | 0.37 | 68.2 |
| 4/30/2015 17:49:43 | 39.04 | 38.04 | 1,255 | 0.29 | 0.37 | 68.6 |
| 4/30/2015 17:49:44 | 39.37 | 38.37 | 1,243 | 0.29 | 0.37 | 68.0 |
| 4/30/2015 17:49:44 | 39.70 | 38.70 | 1,243 | 0.29 | 0.37 | 68.0 |
| 4/30/2015 17:49:44 | 40.03 | 39.03 | 1,272 | 0.29 | 0.36 | 69.5 |
| 4/30/2015 17:49:45 | 40.35 | 39.35 | 1,272 | 0.29 | 0.36 | 69.5 |
| 4/30/2015 17:49:45 | 40.68 | 39.68 | 1,267 | 0.29 | 0.36 | 69.3 |
| 4/30/2015 17:49:46 | 41.01 | 40.01 | 1,267 | 0.29 | 0.36 | 69.3 |
| 4/30/2015 17:49:46 | 41.34 | 40.34 | 1,261 | 0.29 | 0.37 | 69.0 |
| 4/30/2015 17:49:46 | 41.67 | 40.67 | 1,261 | 0.29 | 0.37 | 69.0 |
| 4/30/2015 17:49:46 | 41.99 | 40.99 | 1,253 | 0.29 | 0.37 | 68.5 |
| 4/30/2015 17:49:47 | 42.32 | 41.32 | 1,253 | 0.29 | 0.37 | 68.5 |
| 4/30/2015 17:49:47 | 42.65 | 41.65 | 1,263 | 0.30 | 0.36 | 69.1 |
| 4/30/2015 17:49:47 | 42.98 | 41.98 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:48 | 43.31 | 42.31 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:48 | 43.64 | 42.64 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:48 | 43.96 | 42.96 | 1,252 | 0.29 | 0.36 | 68.4 |
| 4/30/2015 17:49:48 | 44.29 | 43.29 | 1,244 | 0.28 | 0.36 | 68.1 |
| 4/30/2015 17:49:49 | 44.62 | 43.62 | 1,244 | 0.28 | 0.36 | 68.1 |
| 4/30/2015 17:49:49 | 44.95 | 43.95 | 1,260 | 0.29 | 0.37 | 68.9 |
| 4/30/2015 17:49:49 | 45.28 | 44.28 | 1,260 | 0.29 | 0.37 | 68.9 |
| 4/30/2015 17:49:49 | 45.60 | 44.60 | 1,255 | 0.29 | 0.36 | 68.6 |
| 4/30/2015 17:49:50 | 45.93 | 44.93 | 1,255 | 0.29 | 0.36 | 68.6 |
| 4/30/2015 17:49:50 | 46.26 | 45.26 | 1,252 | 0.28 | 0.37 | 68.4 |
| 4/30/2015 17:49:50 | 46.59 | 45.59 | 1,255 | 0.28 | 0.36 | 68.6 |
| 4/30/2015 17:49:51 | 46.92 | 45.92 | 1,255 | 0.28 | 0.36 | 68.6 |
| 4/30/2015 17:49:51 | 47.24 | 46.24 | 1,255 | 0.28 | 0.36 | 68.6 |
| 4/30/2015 17:49:51 | 47.57 | 46.57 | 1,255 | 0.28 | 0.36 | 68.6 |
| 4/30/2015 17:49:51 | 47.90 | 46.90 | 1,249 | 0.28 | 0.36 | 68.3 |
| 4/30/2015 17:49:52 | 48.23 | 47.23 | 1,249 | 0.28 | 0.36 | 68.3 |
| 4/30/2015 17:49:52 | 48.56 | 47.56 | 1,249 | 0.28 | 0.37 | 68.3 |
| 4/30/2015 17:49:52 | 48.88 | 47.88 | 1,249 | 0.28 | 0.37 | 68.3 |
| 4/30/2015 17:49:52 | 49.21 | 48.21 | 1,242 | 0.26 | 0.41 | 67.9 |
| 4/30/2015 17:50:00 | 49.54 | 48.54 | 29 | 4.14 | 0.46 | 1.6 |
| 4/30/2015 17:50:02 | 49.87 | 48.87 | 205 | 3.13 | 0.45 | 11.2 |
| 4/30/2015 17:50:03 | 50.20 | 49.20 | 230 | 4.11 | 0.46 | 12.6 |
| 4/30/2015 17:50:05 | 50.53 | 49.53 | 212 | 4.49 | 0.44 | 11.6 |
| 4/30/2015 17:50:07 | 50.85 | 49.85 | 252 | 3.79 | 0.44 | 13.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:50:08 | 51.18 | 50.18 | 278 | 3.42 | 0.44 | 15.2 |
| 4/30/2015 | 17:50:09 | 51.51 | 50.51 | 308 | 3.84 | 0.45 | 16.9 |
| 4/30/2015 | 17:50:10 | 51.84 | 50.84 | 335 | 3.18 | 0.44 | 18.3 |
| 4/30/2015 | 17:50:11 | 52.17 | 51.17 | 359 | 2.79 | 0.43 | 19.6 |
| 4/30/2015 | 17:50:13 | 52.49 | 51.49 | 215 | 7.37 | 0.47 | 11.8 |
| 4/30/2015 | 17:50:54 | 52.82 | 51.82 | 31 | 5.12 | 0.48 | 1.7 |
| 4/30/2015 | 17:50:55 | 53.15 | 52.15 | 147 | 3.83 | 0.43 | 8.0 |
| 4/30/2015 | 17:50:56 | 53.48 | 52.48 | 239 | 3.29 | 0.43 | 13.0 |
| 4/30/2015 | 17:50:56 | 53.81 | 52.81 | 330 | 2.51 | 0.42 | 18.0 |
| 4/30/2015 | 17:50:57 | 54.13 | 53.13 | 427 | 2.58 | 0.41 | 23.3 |
| 4/30/2015 | 17:50:58 | 54.46 | 53.46 | 540 | 3.64 | 0.43 | 29.5 |
| 4/30/2015 | 17:50:59 | 54.79 | 53.79 | 543 | 4.28 | 0.43 | 29.7 |
| 4/30/2015 | 17:50:59 | 55.12 | 54.12 | 560 | 2.05 | 0.40 | 30.6 |
| 4/30/2015 | 17:51:00 | 55.45 | 54.45 | 589 | 1.81 | 0.38 | 32.2 |
| 4/30/2015 | 17:51:00 | 55.77 | 54.77 | 655 | 2.08 | 0.38 | 35.8 |
| 4/30/2015 | 17:51:01 | 56.10 | 55.10 | 655 | 2.08 | 0.38 | 35.8 |
| 4/30/2015 | 17:51:01 | 56.43 | 55.43 | 737 | 1.95 | 0.38 | 40.3 |
| 4/30/2015 | 17:51:01 | 56.58 | 55.58 | 737 | 1.95 | 0.38 | 40.3 |

## L116 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:48:07

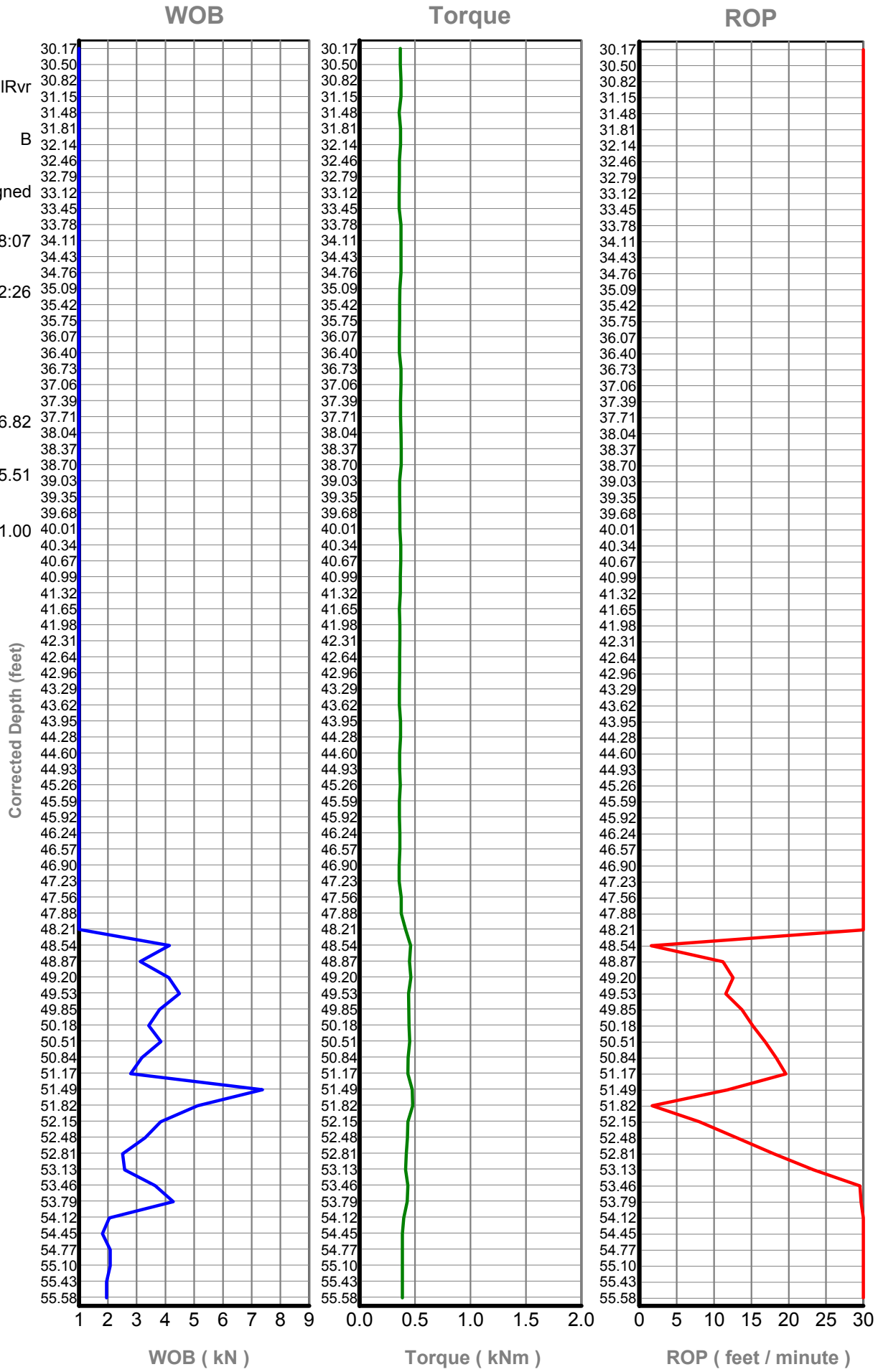
**End Date:**
4/30/2015 17:52:26

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
360,436.82

**Easting:**
243,275.51

**Tide (feet):**
1.00



## Hole: L117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:49:02 | 31.17 | 30.17 | 1,114 | 1.14 | 0.29 | 60.9 |
| 4/30/2015 17:49:03 | 31.50 | 30.50 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 17:49:03 | 31.82 | 30.82 | 1,111 | 1.14 | 0.29 | 60.7 |
| 4/30/2015 17:49:03 | 32.15 | 31.15 | 1,111 | 1.14 | 0.29 | 60.8 |
| 4/30/2015 17:49:04 | 32.48 | 31.48 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 17:49:04 | 32.81 | 31.81 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 17:49:04 | 33.14 | 32.14 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:05 | 33.46 | 32.46 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:05 | 33.79 | 32.79 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 17:49:05 | 34.12 | 33.12 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 17:49:06 | 34.45 | 33.45 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 17:49:06 | 34.78 | 33.78 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 17:49:06 | 35.11 | 34.11 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 17:49:07 | 35.43 | 34.43 | 1,106 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 17:49:07 | 35.76 | 34.76 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:08 | 36.09 | 35.09 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:07 | 36.42 | 35.42 | 1,115 | 1.14 | 0.29 | 61.0 |
| 4/30/2015 17:49:08 | 36.75 | 35.75 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:09 | 37.07 | 36.07 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:09 | 37.40 | 36.40 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 17:49:09 | 37.73 | 36.73 | 1,101 | 1.14 | 0.29 | 60.2 |
| 4/30/2015 17:49:09 | 38.06 | 37.06 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 17:49:10 | 38.39 | 37.39 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:10 | 38.71 | 37.71 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:10 | 39.04 | 38.04 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:11 | 39.37 | 38.37 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:11 | 39.70 | 38.70 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:11 | 40.03 | 39.03 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:12 | 40.35 | 39.35 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:12 | 40.68 | 39.68 | 1,105 | 1.14 | 0.29 | 60.4 |
| 4/30/2015 17:49:12 | 41.01 | 40.01 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 17:49:13 | 41.34 | 40.34 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 17:49:13 | 41.67 | 40.67 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 17:49:13 | 41.99 | 40.99 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 17:49:14 | 42.32 | 41.32 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 17:49:14 | 42.65 | 41.65 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 17:49:14 | 42.98 | 41.98 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 17:49:15 | 43.31 | 42.31 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 17:49:15 | 43.64 | 42.64 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 17:49:15 | 43.96 | 42.96 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 17:49:15 | 44.29 | 43.29 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 17:49:16 | 44.62 | 43.62 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 17:49:16 | 44.95 | 43.95 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 17:49:16 | 45.28 | 44.28 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 17:49:17 | 45.60 | 44.60 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 17:49:17 | 45.93 | 44.93 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 17:49:17 | 46.26 | 45.26 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 17:49:18 | 46.59 | 45.59 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 17:49:18 | 46.92 | 45.92 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 17:49:18 | 47.24 | 46.24 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 17:49:19 | 47.57 | 46.57 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 17:49:33 | 47.90 | 46.90 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 17:49:34 | 48.23 | 47.23 | 124 | 1.14 | 0.29 | 6.8 |
| 4/30/2015 17:49:35 | 48.56 | 47.56 | 274 | 1.14 | 0.29 | 15.0 |
| 4/30/2015 17:49:36 | 48.88 | 47.88 | 365 | 1.14 | 0.29 | 20.0 |
| 4/30/2015 17:49:36 | 49.21 | 48.21 | 385 | 1.14 | 0.29 | 21.1 |
| 4/30/2015 17:49:37 | 49.54 | 48.54 | 509 | 1.14 | 0.29 | 27.8 |
| 4/30/2015 17:49:38 | 49.87 | 48.87 | 515 | 1.14 | 0.29 | 28.2 |
| 4/30/2015 17:49:38 | 50.20 | 49.20 | 512 | 1.14 | 0.29 | 28.0 |
| 4/30/2015 17:49:46 | 50.53 | 49.53 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 17:50:12 | 50.85 | 49.85 | 77 | 1.14 | 0.29 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:50:13 | 51.18 | 50.18 | 254 | 1.14 | 0.29 | 13.9 |
| 4/30/2015 | 17:50:14 | 51.51 | 50.51 | 402 | 1.14 | 0.29 | 22.0 |
| 4/30/2015 | 17:50:14 | 51.84 | 50.84 | 421 | 1.14 | 0.29 | 23.0 |
| 4/30/2015 | 17:51:25 | 52.17 | 51.17 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 17:51:26 | 52.49 | 51.49 | 147 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 | 17:51:26 | 52.82 | 51.82 | 264 | 1.14 | 0.29 | 14.5 |
| 4/30/2015 | 17:51:27 | 53.15 | 52.15 | 376 | 1.14 | 0.29 | 20.5 |
| 4/30/2015 | 17:51:27 | 53.48 | 52.48 | 543 | 1.14 | 0.29 | 29.7 |
| 4/30/2015 | 17:51:28 | 53.81 | 52.81 | 543 | 1.14 | 0.29 | 29.7 |
| 4/30/2015 | 17:51:32 | 54.13 | 53.13 | 118 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 | 17:51:33 | 54.46 | 53.46 | 118 | 1.14 | 0.29 | 6.4 |
| 4/30/2015 | 17:51:33 | 54.79 | 53.79 | 404 | 1.14 | 0.29 | 22.1 |
| 4/30/2015 | 17:51:34 | 55.12 | 54.12 | 518 | 1.14 | 0.29 | 28.3 |
| 4/30/2015 | 17:51:35 | 55.45 | 54.45 | 566 | 1.14 | 0.29 | 30.9 |
| 4/30/2015 | 17:51:59 | 55.77 | 54.77 | 14 | 1.14 | 0.29 | 0.8 |
| 4/30/2015 | 17:52:10 | 56.10 | 55.10 | 41 | 1.14 | 0.29 | 2.2 |

## L117 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:47:58

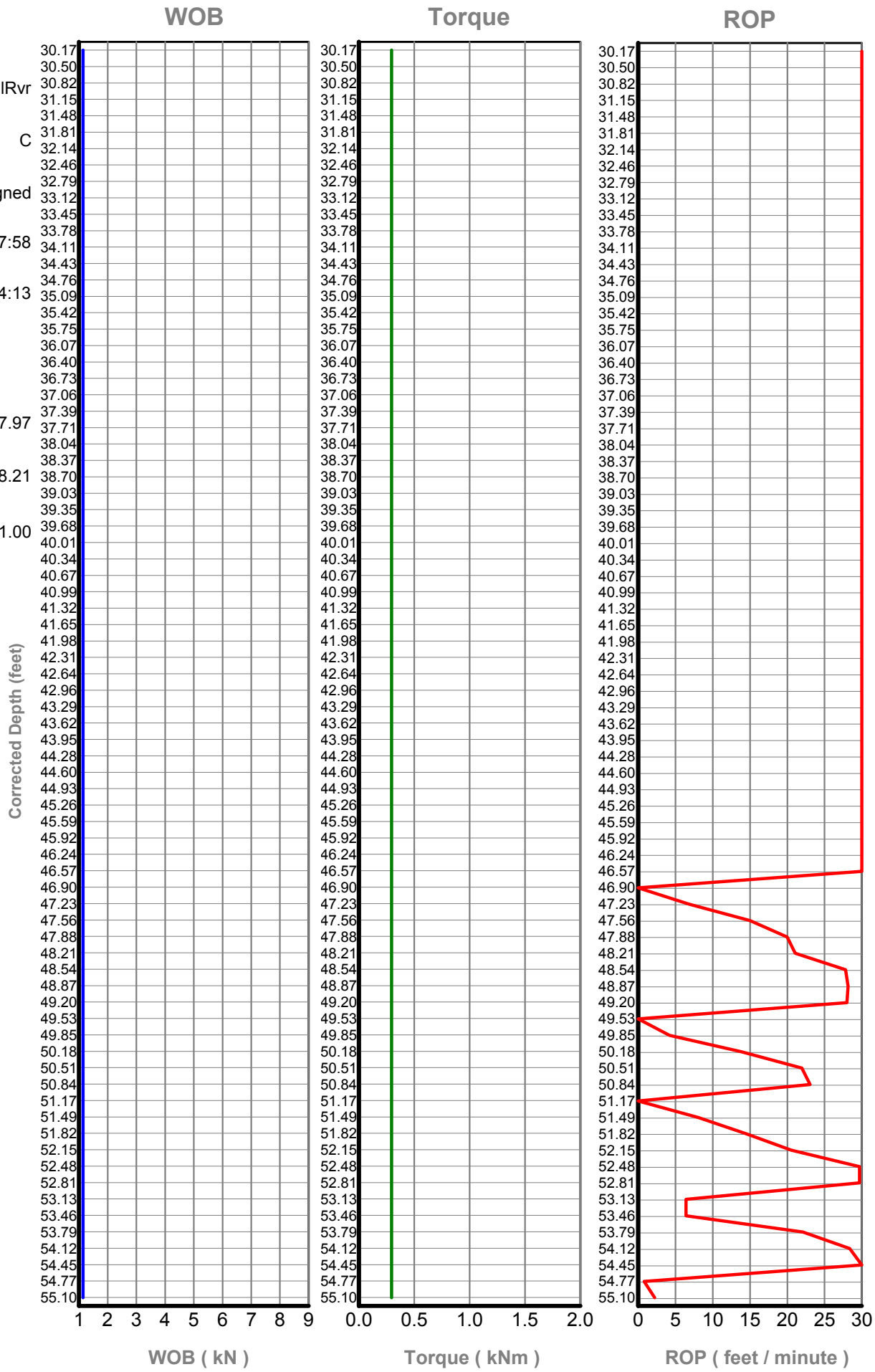
**End Date:**
4/30/2015 17:54:13

**Operator Note:**
'1 1.1 c Auto Complete'

**Northing:**
360,477.97

**Easting:**
243,338.21

**Tide (feet):**
1.00



## Hole: L118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:36:09 | 35.76 | 30.06 | 675 | 1.26 | 0.81 | 36.9 |
| 5/1/2015 21:36:10 | 36.09 | 30.39 | 680 | 1.24 | 0.83 | 37.2 |
| 5/1/2015 21:36:11 | 36.42 | 30.72 | 683 | 1.25 | 0.84 | 37.3 |
| 5/1/2015 21:36:11 | 36.75 | 31.05 | 696 | 1.26 | 0.81 | 38.1 |
| 5/1/2015 21:36:12 | 37.07 | 31.37 | 696 | 1.26 | 0.83 | 38.1 |
| 5/1/2015 21:36:12 | 37.40 | 31.70 | 707 | 1.26 | 0.83 | 38.7 |
| 5/1/2015 21:36:13 | 37.73 | 32.03 | 706 | 1.26 | 0.82 | 38.6 |
| 5/1/2015 21:36:13 | 38.06 | 32.36 | 685 | 1.25 | 0.80 | 37.5 |
| 5/1/2015 21:36:14 | 38.39 | 32.69 | 685 | 1.12 | 0.81 | 37.5 |
| 5/1/2015 21:36:14 | 38.71 | 33.01 | 685 | 1.12 | 0.81 | 37.5 |
| 5/1/2015 21:36:14 | 39.04 | 33.34 | 691 | 1.15 | 0.79 | 37.8 |
| 5/1/2015 21:36:15 | 39.37 | 33.67 | 690 | 1.13 | 0.76 | 37.7 |
| 5/1/2015 21:36:15 | 39.70 | 34.00 | 691 | 1.15 | 0.76 | 37.8 |
| 5/1/2015 21:36:16 | 40.03 | 34.33 | 695 | 1.16 | 0.23 | 38.0 |
| 5/1/2015 21:36:16 | 40.35 | 34.65 | 727 | 1.15 | 0.21 | 39.8 |
| 5/1/2015 21:36:17 | 40.68 | 34.98 | 727 | 1.13 | 0.21 | 39.8 |
| 5/1/2015 21:36:17 | 41.01 | 35.31 | 737 | 1.38 | 0.23 | 40.3 |
| 5/1/2015 21:36:18 | 41.34 | 35.64 | 747 | 1.18 | 0.24 | 40.9 |
| 5/1/2015 21:36:18 | 41.67 | 35.97 | 731 | 1.15 | 0.21 | 40.0 |
| 5/1/2015 21:36:19 | 41.99 | 36.29 | 731 | 1.15 | 0.21 | 40.0 |
| 5/1/2015 21:36:20 | 42.32 | 36.62 | 745 | 1.15 | 0.21 | 40.8 |
| 5/1/2015 21:36:20 | 42.65 | 36.95 | 718 | 1.14 | 0.21 | 39.2 |
| 5/1/2015 21:36:21 | 42.98 | 37.28 | 706 | 1.13 | 0.21 | 38.6 |
| 5/1/2015 21:36:21 | 43.31 | 37.61 | 706 | 1.13 | 0.21 | 38.6 |
| 5/1/2015 21:36:21 | 43.64 | 37.94 | 706 | 1.13 | 0.21 | 38.6 |
| 5/1/2015 21:36:22 | 43.96 | 38.26 | 713 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 21:36:22 | 44.29 | 38.59 | 721 | 1.14 | 0.21 | 39.4 |
| 5/1/2015 21:36:23 | 44.62 | 38.92 | 721 | 1.15 | 0.21 | 39.4 |
| 5/1/2015 21:36:23 | 44.95 | 39.25 | 716 | 1.13 | 0.21 | 39.2 |
| 5/1/2015 21:36:24 | 45.28 | 39.58 | 741 | 1.13 | 0.21 | 40.5 |
| 5/1/2015 21:36:24 | 45.60 | 39.90 | 740 | 1.14 | 0.21 | 40.5 |
| 5/1/2015 21:36:25 | 45.93 | 40.23 | 725 | 1.14 | 0.21 | 39.7 |
| 5/1/2015 21:36:25 | 46.26 | 40.56 | 739 | 1.14 | 0.21 | 40.4 |
| 5/1/2015 21:36:26 | 46.59 | 40.89 | 732 | 1.14 | 0.21 | 40.0 |
| 5/1/2015 21:36:26 | 46.92 | 41.22 | 732 | 1.14 | 0.21 | 40.0 |
| 5/1/2015 21:36:27 | 47.24 | 41.54 | 724 | 1.13 | 0.21 | 39.6 |
| 5/1/2015 21:36:27 | 47.57 | 41.87 | 718 | 1.15 | 0.21 | 39.3 |
| 5/1/2015 21:36:28 | 47.90 | 42.20 | 720 | 1.13 | 0.21 | 39.4 |
| 5/1/2015 21:36:28 | 48.23 | 42.53 | 720 | 1.13 | 0.21 | 39.4 |
| 5/1/2015 21:36:29 | 48.56 | 42.86 | 720 | 1.13 | 0.21 | 39.4 |
| 5/1/2015 21:36:29 | 48.88 | 43.18 | 726 | 1.13 | 0.21 | 39.7 |
| 5/1/2015 21:36:29 | 49.21 | 43.51 | 724 | 1.15 | 0.21 | 39.6 |
| 5/1/2015 21:36:30 | 49.54 | 43.84 | 718 | 1.13 | 0.21 | 39.2 |
| 5/1/2015 21:36:30 | 49.87 | 44.17 | 718 | 1.13 | 0.21 | 39.2 |
| 5/1/2015 21:36:31 | 50.20 | 44.50 | 736 | 1.13 | 0.21 | 40.2 |
| 5/1/2015 21:36:32 | 50.53 | 44.83 | 740 | 1.13 | 0.21 | 40.5 |
| 5/1/2015 21:36:32 | 50.85 | 45.15 | 718 | 1.14 | 0.21 | 39.3 |
| 5/1/2015 21:36:33 | 51.18 | 45.48 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 21:36:33 | 51.51 | 45.81 | 707 | 1.14 | 0.21 | 38.7 |
| 5/1/2015 21:36:34 | 51.84 | 46.14 | 729 | 1.13 | 0.21 | 39.9 |
| 5/1/2015 21:36:34 | 52.17 | 46.47 | 707 | 1.14 | 0.22 | 38.7 |
| 5/1/2015 21:36:35 | 52.49 | 46.79 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 21:36:35 | 52.82 | 47.12 | 711 | 1.16 | 0.21 | 38.9 |
| 5/1/2015 21:36:36 | 53.15 | 47.45 | 712 | 1.15 | 0.20 | 39.0 |
| 5/1/2015 21:36:36 | 53.48 | 47.78 | 688 | 1.17 | 0.21 | 37.6 |
| 5/1/2015 21:36:37 | 53.81 | 48.11 | 643 | 1.19 | 0.20 | 35.2 |
| 5/1/2015 21:36:38 | 54.13 | 48.43 | 543 | 0.43 | 0.18 | 29.7 |
| 5/1/2015 21:36:41 | 54.46 | 48.76 | 112 | 1.14 | 0.21 | 6.1 |
| 5/1/2015 21:37:17 | 54.79 | 49.09 | 0 | 1.13 | 0.21 | 0.0 |
| 5/1/2015 21:37:17 | 55.12 | 49.42 | 64 | 1.15 | 0.21 | 3.5 |
| 5/1/2015 21:37:18 | 55.45 | 49.75 | 164 | 1.14 | 0.21 | 9.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:37:18 | 55.77 | 50.07 | 267 | 1.15 | 0.21 | 14.6 |
| 5/1/2015 21:37:19 | 56.10 | 50.40 | 367 | 1.13 | 0.21 | 20.1 |
| 5/1/2015 21:37:20 | 56.43 | 50.73 | 367 | 1.15 | 0.21 | 20.1 |
| 5/1/2015 21:37:21 | 56.76 | 51.06 | 470 | 1.14 | 0.20 | 25.7 |
| 5/1/2015 21:37:22 | 57.09 | 51.39 | 464 | 1.15 | 0.20 | 25.4 |
| 5/1/2015 21:37:22 | 57.41 | 51.71 | 441 | 1.15 | 0.21 | 24.1 |
| 5/1/2015 21:37:24 | 57.74 | 52.04 | 419 | 1.17 | 0.20 | 22.9 |
| 5/1/2015 21:37:25 | 58.07 | 52.37 | 372 | 1.06 | 0.20 | 20.4 |
| 5/1/2015 21:37:26 | 58.40 | 52.70 | 332 | 1.15 | 0.21 | 18.1 |
| 5/1/2015 21:37:29 | 58.73 | 53.03 | 167 | 1.17 | 0.20 | 9.1 |
| 5/1/2015 21:37:35 | 59.06 | 53.36 | 57 | 1.15 | 0.21 | 3.1 |
| 5/1/2015 21:37:36 | 59.38 | 53.68 | 150 | 1.13 | 0.89 | 8.2 |
| 5/1/2015 21:37:37 | 59.71 | 54.01 | 258 | 1.10 | 0.85 | 14.1 |
| 5/1/2015 21:37:38 | 60.04 | 54.34 | 323 | 1.11 | 0.83 | 17.7 |
| 5/1/2015 21:37:39 | 60.37 | 54.67 | 364 | 1.18 | 0.22 | 19.9 |
| 5/1/2015 21:37:40 | 60.52 | 54.82 | 330 | 1.17 | 0.21 | 18.1 |

## L118 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 21:33:46

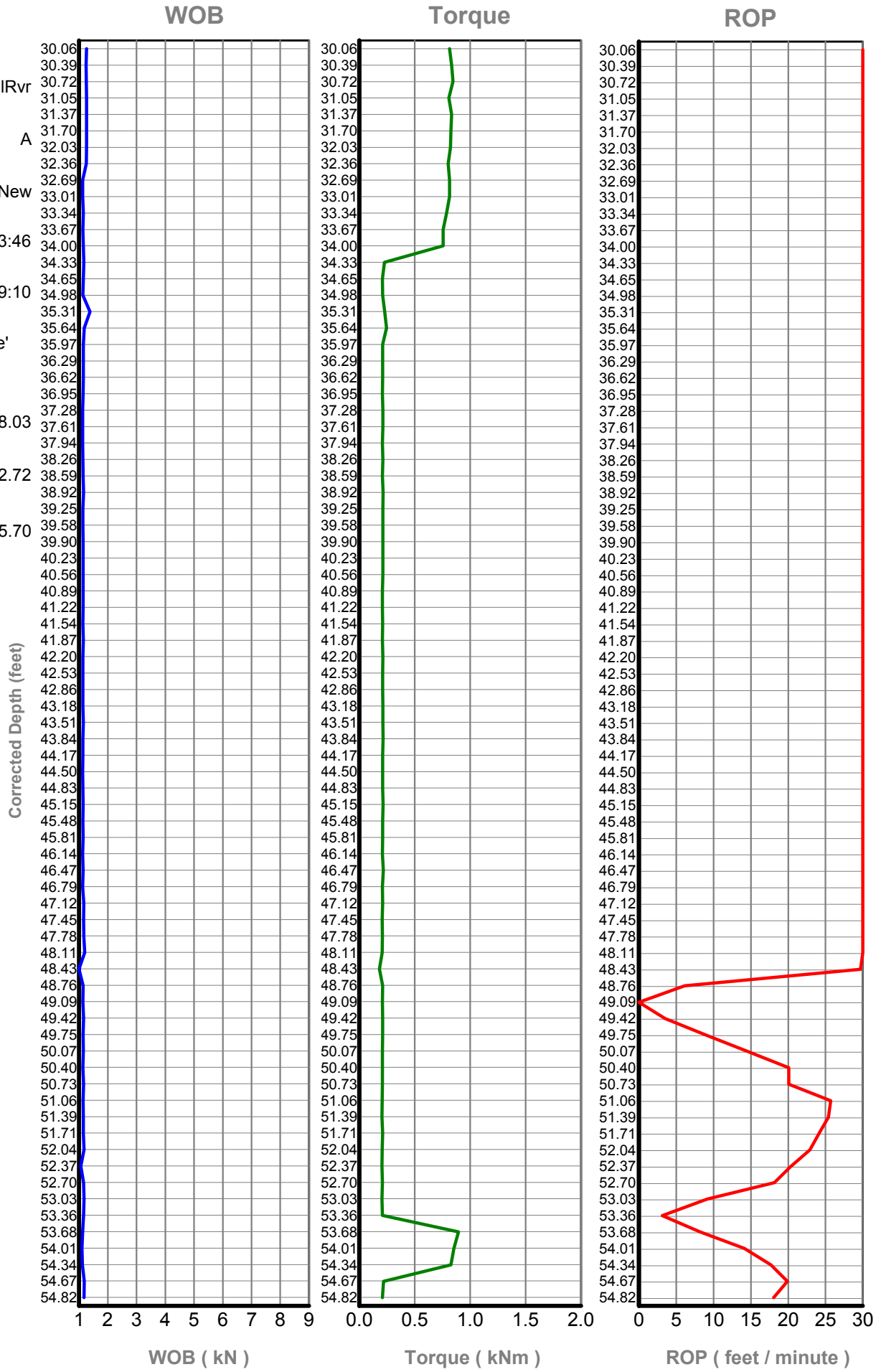
**End Date:**
5/1/2015 21:39:10

**Operator Note:**
'5.7 5.4 a Auto Complete'

**Northing:**
359,378.03

**Easting:**
241,732.72

**Tide (feet):**
5.70



## Hole: L119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:37:56 | 35.76 | 30.06 | 946 | 0.40 | 0.40 | 51.7 |
| 5/1/2015 21:37:57 | 36.09 | 30.39 | 946 | 0.40 | 0.40 | 51.7 |
| 5/1/2015 21:37:57 | 36.42 | 30.72 | 922 | 0.41 | 0.40 | 50.4 |
| 5/1/2015 21:37:57 | 36.75 | 31.05 | 919 | 0.40 | 0.40 | 50.3 |
| 5/1/2015 21:37:58 | 37.07 | 31.37 | 919 | 0.40 | 0.40 | 50.3 |
| 5/1/2015 21:37:58 | 37.40 | 31.70 | 919 | 0.41 | 0.40 | 50.3 |
| 5/1/2015 21:37:59 | 37.73 | 32.03 | 928 | 0.41 | 0.40 | 50.7 |
| 5/1/2015 21:37:59 | 38.06 | 32.36 | 936 | 0.41 | 0.40 | 51.2 |
| 5/1/2015 21:38:00 | 38.39 | 32.69 | 936 | 0.41 | 0.40 | 51.2 |
| 5/1/2015 21:38:00 | 38.71 | 33.01 | 920 | 0.41 | 0.40 | 50.3 |
| 5/1/2015 21:38:00 | 39.04 | 33.34 | 920 | 0.40 | 0.40 | 50.3 |
| 5/1/2015 21:38:01 | 39.37 | 33.67 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:01 | 39.70 | 34.00 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:01 | 40.03 | 34.33 | 957 | 0.41 | 0.40 | 52.3 |
| 5/1/2015 21:38:02 | 40.35 | 34.65 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:02 | 40.68 | 34.98 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:02 | 41.01 | 35.31 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:03 | 41.34 | 35.64 | 964 | 0.41 | 0.40 | 52.7 |
| 5/1/2015 21:38:03 | 41.67 | 35.97 | 943 | 0.41 | 0.40 | 51.6 |
| 5/1/2015 21:38:04 | 41.99 | 36.29 | 943 | 0.41 | 0.40 | 51.6 |
| 5/1/2015 21:38:04 | 42.32 | 36.62 | 943 | 0.41 | 0.40 | 51.6 |
| 5/1/2015 21:38:04 | 42.65 | 36.95 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:05 | 42.98 | 37.28 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:05 | 43.31 | 37.61 | 939 | 0.33 | 0.40 | 51.4 |
| 5/1/2015 21:38:05 | 43.64 | 37.94 | 945 | 0.41 | 0.40 | 51.6 |
| 5/1/2015 21:38:06 | 43.96 | 38.26 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:06 | 44.29 | 38.59 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:06 | 44.62 | 38.92 | 962 | 0.41 | 0.40 | 52.6 |
| 5/1/2015 21:38:07 | 44.95 | 39.25 | 942 | 0.41 | 0.39 | 51.5 |
| 5/1/2015 21:38:07 | 45.28 | 39.58 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:08 | 45.60 | 39.90 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:08 | 45.93 | 40.23 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:08 | 46.26 | 40.56 | 943 | 0.41 | 0.39 | 51.5 |
| 5/1/2015 21:38:09 | 46.59 | 40.89 | 943 | 0.41 | 0.39 | 51.5 |
| 5/1/2015 21:38:09 | 46.92 | 41.22 | 943 | 0.41 | 0.40 | 51.5 |
| 5/1/2015 21:38:10 | 47.24 | 41.54 | 948 | 0.41 | 0.39 | 51.9 |
| 5/1/2015 21:38:10 | 47.57 | 41.87 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:11 | 47.90 | 42.20 | 945 | 0.41 | 0.40 | 51.7 |
| 5/1/2015 21:38:11 | 48.23 | 42.53 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:11 | 48.56 | 42.86 | 942 | 0.41 | 0.40 | 51.5 |
| 5/1/2015 21:38:12 | 48.88 | 43.18 | 942 | 0.41 | 0.40 | 51.5 |
| 5/1/2015 21:38:12 | 49.21 | 43.51 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:12 | 49.54 | 43.84 | 948 | 0.41 | 0.40 | 51.9 |
| 5/1/2015 21:38:13 | 49.87 | 44.17 | 948 | 0.41 | 0.40 | 51.9 |
| 5/1/2015 21:38:13 | 50.20 | 44.50 | 948 | 0.41 | 0.40 | 51.9 |
| 5/1/2015 21:38:13 | 50.53 | 44.83 | 948 | 0.41 | 0.40 | 51.9 |
| 5/1/2015 21:38:14 | 50.85 | 45.15 | 954 | 0.41 | 0.40 | 52.2 |
| 5/1/2015 21:38:14 | 51.18 | 45.48 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:15 | 51.51 | 45.81 | 948 | 0.41 | 0.40 | 51.8 |
| 5/1/2015 21:38:15 | 51.84 | 46.14 | 951 | 0.41 | 0.40 | 52.0 |
| 5/1/2015 21:38:15 | 52.17 | 46.47 | 939 | 0.41 | 0.40 | 51.4 |
| 5/1/2015 21:38:16 | 52.49 | 46.79 | 939 | 0.41 | 0.40 | 51.4 |
| 5/1/2015 21:38:16 | 52.82 | 47.12 | 948 | 0.41 | 0.46 | 51.8 |
| 5/1/2015 21:38:16 | 53.15 | 47.45 | 942 | 0.41 | 0.40 | 51.5 |
| 5/1/2015 21:38:17 | 53.48 | 47.78 | 937 | 0.39 | 0.41 | 51.2 |
| 5/1/2015 21:38:17 | 53.81 | 48.11 | 937 | 0.39 | 0.41 | 51.2 |
| 5/1/2015 21:38:22 | 54.13 | 48.43 | 0 | 3.61 | 0.42 | 0.0 |
| 5/1/2015 21:38:23 | 54.46 | 48.76 | 171 | 4.43 | 0.44 | 9.3 |
| 5/1/2015 21:38:24 | 54.79 | 49.09 | 313 | 5.32 | 0.46 | 17.1 |
| 5/1/2015 21:38:26 | 55.12 | 49.42 | 142 | 5.19 | 0.46 | 7.7 |
| 5/1/2015 21:38:28 | 55.45 | 49.75 | 144 | 3.70 | 0.43 | 7.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:38:29 | 55.77 | 50.07 | 215 | 3.56 | 0.42 | 11.7 |
| 5/1/2015 21:38:30 | 56.10 | 50.40 | 352 | 3.78 | 0.45 | 19.2 |
| 5/1/2015 21:38:34 | 56.43 | 50.73 | 3 | 4.22 | 0.44 | 0.2 |
| 5/1/2015 21:38:35 | 56.76 | 51.06 | 70 | 3.24 | 0.46 | 3.8 |
| 5/1/2015 21:38:36 | 57.09 | 51.39 | 139 | 3.01 | 0.45 | 7.6 |
| 5/1/2015 21:38:37 | 57.41 | 51.71 | 267 | 3.25 | 0.46 | 14.6 |
| 5/1/2015 21:38:38 | 57.74 | 52.04 | 293 | 3.16 | 0.47 | 16.0 |
| 5/1/2015 21:38:41 | 58.07 | 52.37 | 199 | 2.97 | 0.46 | 10.9 |
| 5/1/2015 21:38:43 | 58.40 | 52.70 | 155 | 3.10 | 0.47 | 8.5 |
| 5/1/2015 21:38:44 | 58.73 | 53.03 | 153 | 2.99 | 0.44 | 8.4 |
| 5/1/2015 21:38:46 | 59.06 | 53.36 | 266 | 3.18 | 0.48 | 14.6 |
| 5/1/2015 21:38:51 | 59.38 | 53.68 | 83 | 3.10 | 0.43 | 4.5 |
| 5/1/2015 21:38:52 | 59.71 | 54.01 | 186 | 3.45 | 0.45 | 10.2 |
| 5/1/2015 21:38:54 | 60.04 | 54.34 | 250 | 3.22 | 0.44 | 13.7 |
| 5/1/2015 21:38:58 | 60.37 | 54.67 | 0 | 4.23 | 0.46 | 0.0 |
| 5/1/2015 21:38:58 | 60.52 | 54.82 | 43 | 3.79 | 0.43 | 2.3 |

## L119 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 21:36:19

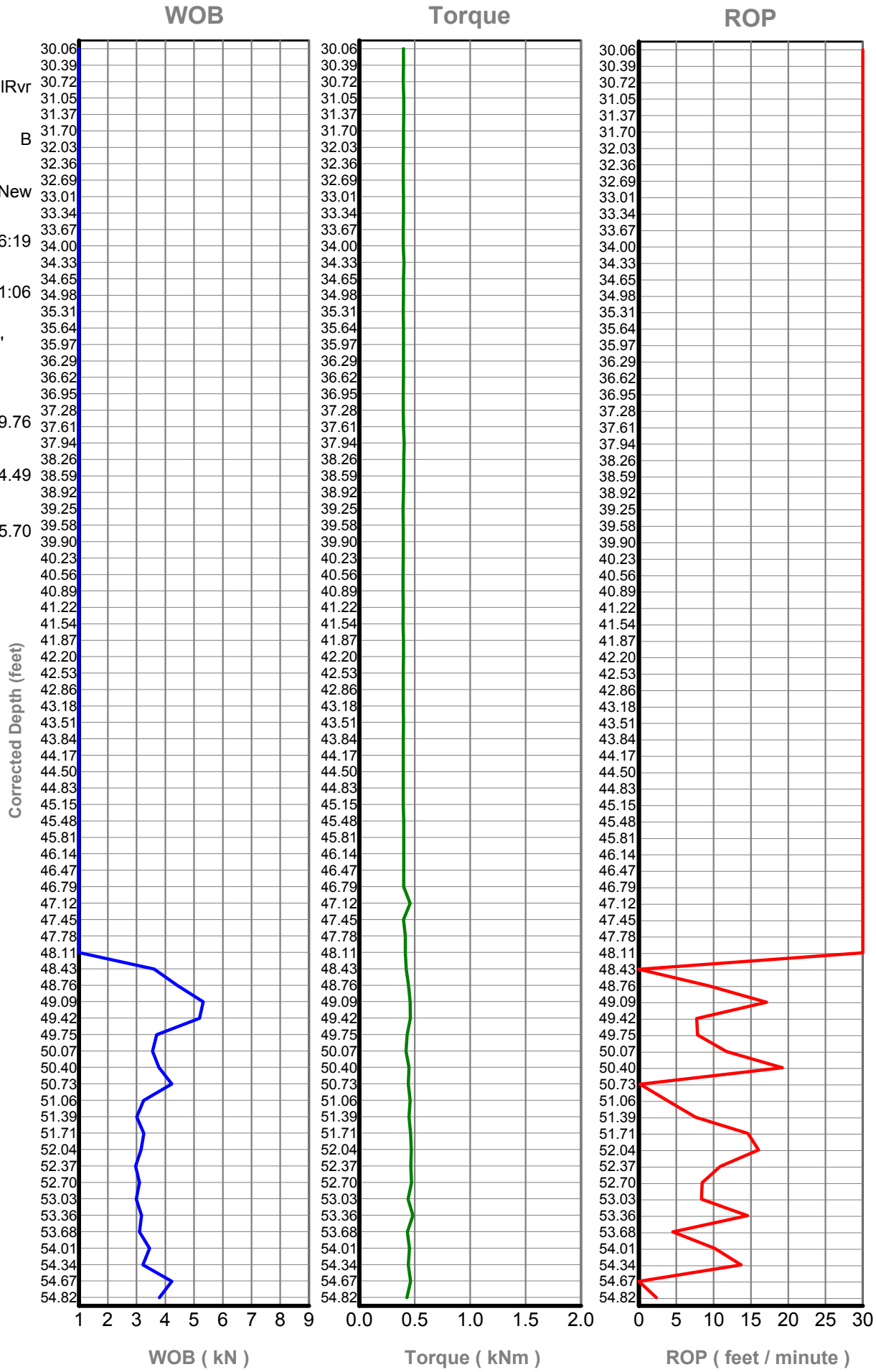
**End Date:**
5/1/2015 21:41:06

**Operator Note:**
'5.7 5.4b Auto Complete'

**Northing:**
359,419.76

**Easting:**
241,794.49

**Tide (feet):**
5.70



## Hole: L12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:08:51 | 34.45 | 30.15 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 2:08:52 | 34.78 | 30.48 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 2:08:52 | 35.11 | 30.81 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 2:08:52 | 35.43 | 31.13 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 2:08:52 | 35.76 | 31.46 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 2:08:53 | 36.09 | 31.79 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:08:53 | 36.42 | 32.12 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:08:54 | 36.75 | 32.45 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 2:08:54 | 37.07 | 32.77 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 2:08:55 | 37.40 | 33.10 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 2:08:55 | 37.73 | 33.43 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 2:08:55 | 38.06 | 33.76 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 2:08:56 | 38.39 | 34.09 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 2:08:56 | 38.71 | 34.41 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 2:08:56 | 39.04 | 34.74 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:08:57 | 39.37 | 35.07 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:08:57 | 39.70 | 35.40 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:08:57 | 40.03 | 35.73 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 2:08:58 | 40.35 | 36.05 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 2:08:58 | 40.68 | 36.38 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:08:58 | 41.01 | 36.71 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:08:58 | 41.34 | 37.04 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:08:59 | 41.67 | 37.37 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 2:08:59 | 41.99 | 37.69 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 2:08:59 | 42.32 | 38.02 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 2:09:00 | 42.65 | 38.35 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:00 | 42.98 | 38.68 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:00 | 43.31 | 39.01 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 2:09:01 | 43.64 | 39.34 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:09:01 | 43.96 | 39.66 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:09:01 | 44.29 | 39.99 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 2:09:02 | 44.62 | 40.32 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 2:09:02 | 44.95 | 40.65 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 2:09:02 | 45.28 | 40.98 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 2:09:03 | 45.60 | 41.30 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 2:09:03 | 45.93 | 41.63 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 2:09:03 | 46.26 | 41.96 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:04 | 46.59 | 42.29 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:04 | 46.92 | 42.62 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:04 | 47.24 | 42.94 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:05 | 47.57 | 43.27 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:05 | 47.90 | 43.60 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:06 | 48.23 | 43.93 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:06 | 48.56 | 44.26 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:06 | 48.88 | 44.58 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 2:09:07 | 49.21 | 44.91 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:07 | 49.54 | 45.24 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 2:09:07 | 49.87 | 45.57 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 2:09:08 | 50.20 | 45.90 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 2:09:08 | 50.53 | 46.23 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 2:09:08 | 50.85 | 46.55 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 2:09:09 | 51.18 | 46.88 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 2:09:09 | 51.51 | 47.21 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 2:09:09 | 51.84 | 47.54 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 2:09:10 | 52.17 | 47.87 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 2:09:10 | 52.49 | 48.19 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 2:09:10 | 52.82 | 48.52 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 2:09:11 | 53.15 | 48.85 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 2:09:26 | 53.48 | 49.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 2:09:27 | 53.81 | 49.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 2:09:32 | 54.13 | 49.83 | 12 | 1.14 | 0.29 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:09:33 | 54.46 | 50.16 | 119 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 2:09:46 | 54.79 | 50.49 | 20 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 | 2:10:00 | 55.12 | 50.82 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 | 2:10:11 | 55.45 | 51.15 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 2:10:18 | 55.61 | 51.31 | 26 | 1.14 | 0.29 | 1.4 |

## L12 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:07:59

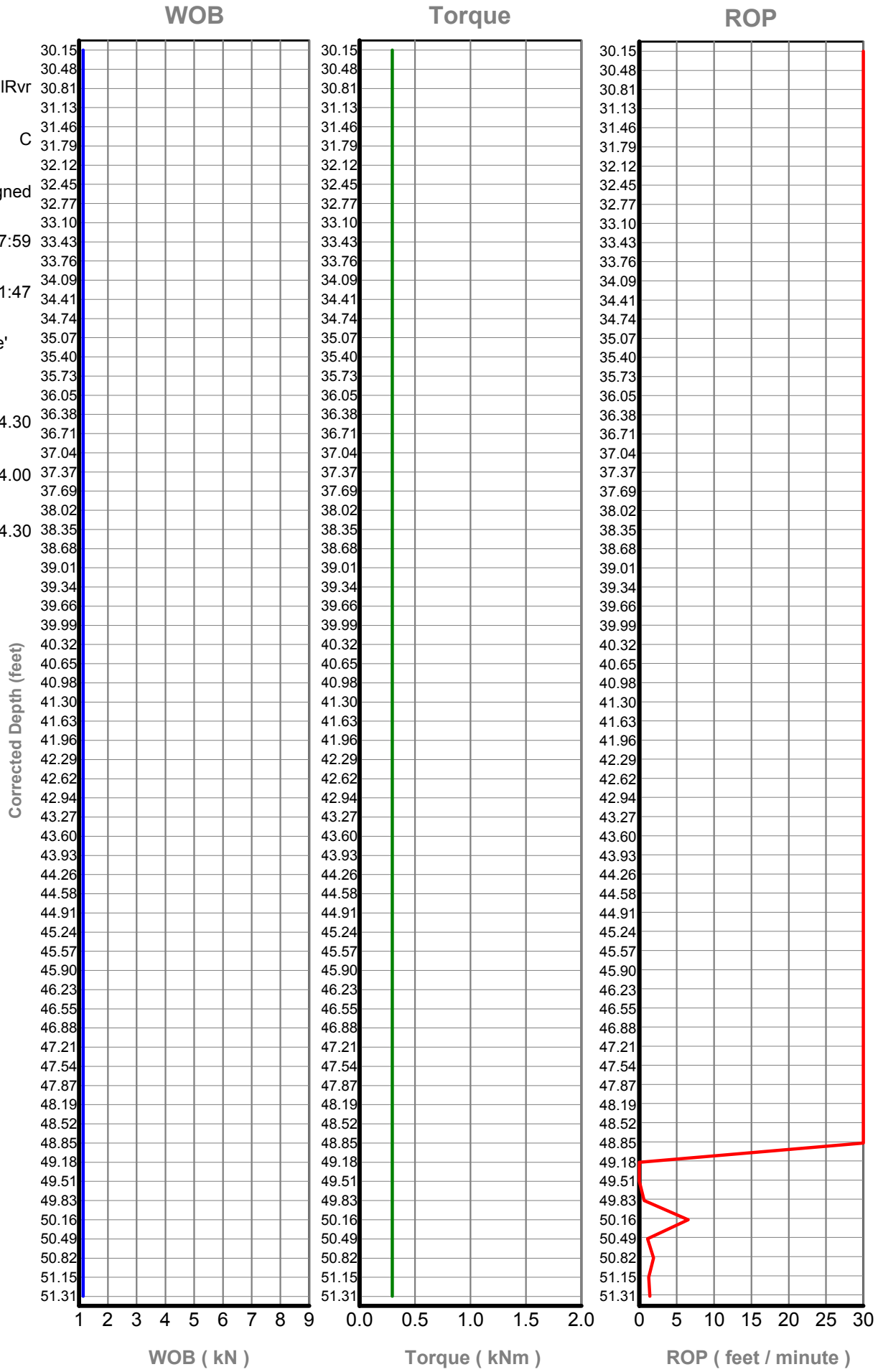
**End Date:**
5/1/2015 2:11:47

**Operator Note:**
'4.3 4.6 c Auto Complete'

**Northing:**
360,434.30

**Easting:**
242,564.00

**Tide (feet):**
4.30



## Hole: L120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:36:17 | 35.76 | 30.06 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:17 | 36.09 | 30.39 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:17 | 36.42 | 30.72 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:18 | 36.75 | 31.05 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:18 | 37.07 | 31.37 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:36:19 | 37.40 | 31.70 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:36:19 | 37.73 | 32.03 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 21:36:19 | 38.06 | 32.36 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:36:20 | 38.39 | 32.69 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:36:20 | 38.71 | 33.01 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:36:20 | 39.04 | 33.34 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:21 | 39.37 | 33.67 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:21 | 39.70 | 34.00 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:36:21 | 40.03 | 34.33 | 979 | 1.14 | 0.29 | 53.5 |
| 5/1/2015 21:36:22 | 40.35 | 34.65 | 979 | 1.14 | 0.29 | 53.5 |
| 5/1/2015 21:36:22 | 40.68 | 34.98 | 979 | 1.14 | 0.29 | 53.5 |
| 5/1/2015 21:36:22 | 41.01 | 35.31 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 21:36:23 | 41.34 | 35.64 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 21:36:23 | 41.67 | 35.97 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:36:23 | 41.99 | 36.29 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:24 | 42.32 | 36.62 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:24 | 42.65 | 36.95 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:24 | 42.98 | 37.28 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:36:25 | 43.31 | 37.61 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:25 | 43.64 | 37.94 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:25 | 43.96 | 38.26 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:26 | 44.29 | 38.59 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:26 | 44.62 | 38.92 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:27 | 44.95 | 39.25 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:27 | 45.28 | 39.58 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:28 | 45.60 | 39.90 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 21:36:28 | 45.93 | 40.23 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:36:28 | 46.26 | 40.56 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 21:36:29 | 46.59 | 40.89 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 21:36:29 | 46.92 | 41.22 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 21:36:29 | 47.24 | 41.54 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:36:30 | 47.57 | 41.87 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 21:36:30 | 47.90 | 42.20 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 21:36:30 | 48.23 | 42.53 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:36:31 | 48.56 | 42.86 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:31 | 48.88 | 43.18 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 21:36:31 | 49.21 | 43.51 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:36:32 | 49.54 | 43.84 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:36:32 | 49.87 | 44.17 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:36:32 | 50.20 | 44.50 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:36:33 | 50.53 | 44.83 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:33 | 50.85 | 45.15 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:33 | 51.18 | 45.48 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:34 | 51.51 | 45.81 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 21:36:34 | 51.84 | 46.14 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 21:36:35 | 52.17 | 46.47 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 21:36:35 | 52.49 | 46.79 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 21:36:35 | 52.82 | 47.12 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 21:36:36 | 53.15 | 47.45 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 21:36:36 | 53.48 | 47.78 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 21:36:36 | 53.81 | 48.11 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 21:36:37 | 54.13 | 48.43 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 21:36:37 | 54.46 | 48.76 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:36:37 | 54.79 | 49.09 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 21:36:38 | 55.12 | 49.42 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 21:36:39 | 55.45 | 49.75 | 992 | 1.14 | 0.29 | 54.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:36:39 | 55.77 | 50.07 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 21:36:39 | 56.10 | 50.40 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 21:36:40 | 56.43 | 50.73 | 943 | 1.14 | 0.29 | 51.6 |
| 5/1/2015 21:36:57 | 56.76 | 51.06 | 17 | 1.14 | 0.29 | 0.9 |
| 5/1/2015 21:36:58 | 57.09 | 51.39 | 151 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 21:37:02 | 57.41 | 51.71 | 4 | 1.14 | 0.29 | 0.2 |
| 5/1/2015 21:37:02 | 57.74 | 52.04 | 4 | 1.14 | 0.29 | 0.2 |
| 5/1/2015 21:37:08 | 58.07 | 52.37 | 124 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 21:37:14 | 58.40 | 52.70 | 42 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 21:37:19 | 58.73 | 53.03 | 3 | 1.14 | 0.29 | 0.2 |
| 5/1/2015 21:37:22 | 59.06 | 53.36 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 21:37:27 | 59.38 | 53.68 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 21:37:27 | 59.71 | 54.01 | 68 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 21:37:31 | 60.04 | 54.34 | 21 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 21:37:33 | 60.37 | 54.67 | 201 | 1.14 | 0.29 | 11.0 |
| 5/1/2015 21:37:33 | 60.41 | 54.71 | 201 | 1.14 | 0.29 | 11.0 |

## L120 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/1/2015 21:35:07

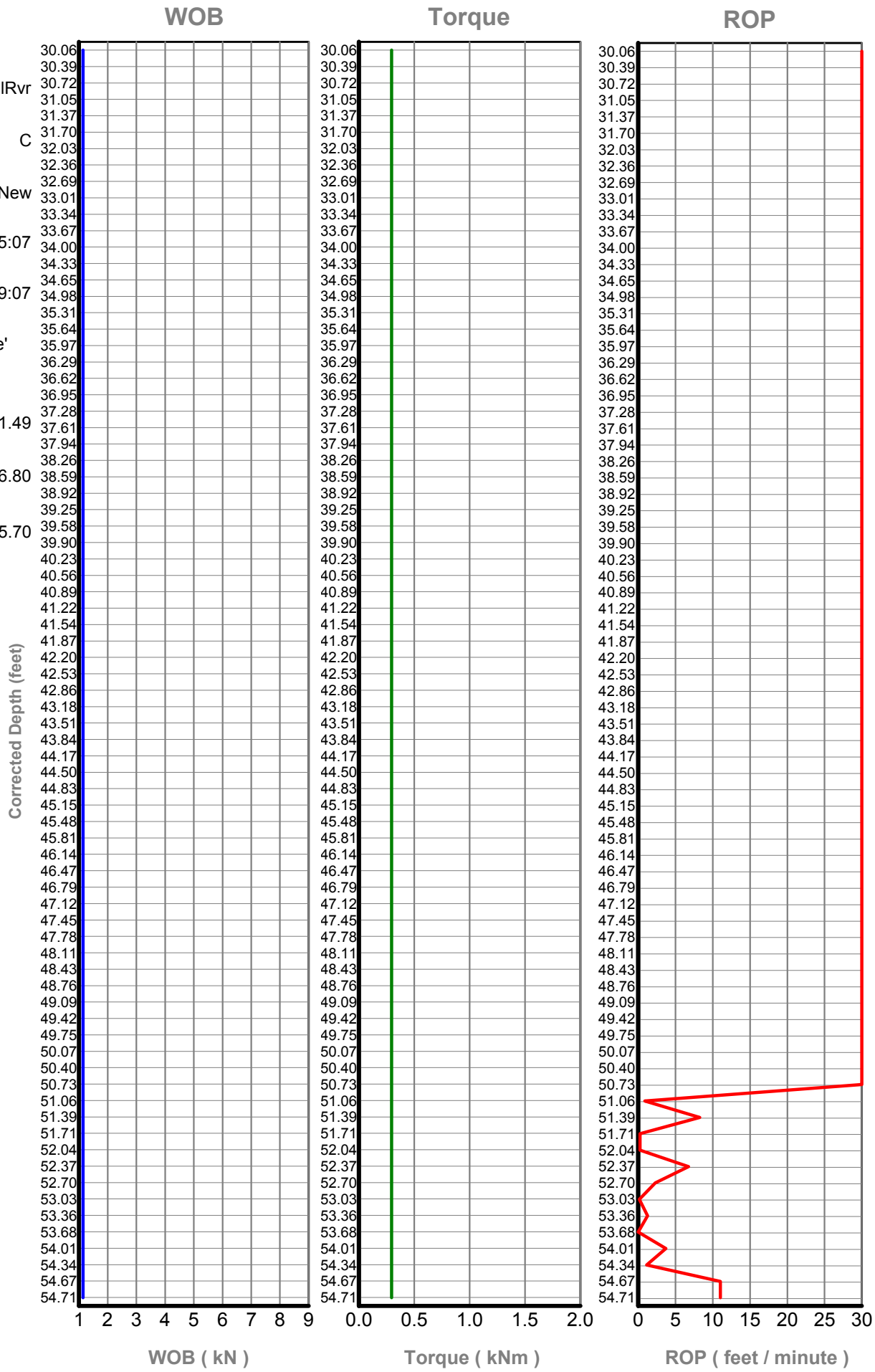
**End Date:**
5/1/2015 21:39:07

**Operator Note:**
'5.7 5.4 c Auto Complete'

**Northing:**
359,461.49

**Easting:**
241,856.80

**Tide (feet):**
5.70



## Hole: L121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:47:34 | 33.14 | 30.24 | 900 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:47:34 | 33.46 | 30.56 | 890 | 1.15 | 0.15 | 48.7 |
| 5/1/2015 15:47:35 | 33.79 | 30.89 | 904 | 1.16 | 0.15 | 49.4 |
| 5/1/2015 15:47:35 | 34.12 | 31.22 | 904 | 1.16 | 0.15 | 49.4 |
| 5/1/2015 15:47:35 | 34.45 | 31.55 | 893 | 1.15 | 0.15 | 48.8 |
| 5/1/2015 15:47:36 | 34.78 | 31.88 | 893 | 1.15 | 0.15 | 48.8 |
| 5/1/2015 15:47:36 | 35.11 | 32.21 | 917 | 1.16 | 0.15 | 50.1 |
| 5/1/2015 15:47:37 | 35.43 | 32.53 | 917 | 1.16 | 0.15 | 50.1 |
| 5/1/2015 15:47:37 | 35.76 | 32.86 | 879 | 1.14 | 0.16 | 48.1 |
| 5/1/2015 15:47:37 | 36.09 | 33.19 | 879 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 15:47:38 | 36.42 | 33.52 | 897 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 15:47:38 | 36.75 | 33.85 | 897 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 15:47:38 | 37.07 | 34.17 | 891 | 1.13 | 0.15 | 48.7 |
| 5/1/2015 15:47:39 | 37.40 | 34.50 | 914 | 1.15 | 0.15 | 50.0 |
| 5/1/2015 15:47:40 | 37.73 | 34.83 | 905 | 1.16 | 0.15 | 49.5 |
| 5/1/2015 15:47:40 | 38.06 | 35.16 | 905 | 1.16 | 0.15 | 49.5 |
| 5/1/2015 15:47:40 | 38.39 | 35.49 | 923 | 1.17 | 0.16 | 50.5 |
| 5/1/2015 15:47:41 | 38.71 | 35.81 | 903 | 1.14 | 0.15 | 49.4 |
| 5/1/2015 15:47:41 | 39.04 | 36.14 | 898 | 1.15 | 0.15 | 49.1 |
| 5/1/2015 15:47:42 | 39.37 | 36.47 | 898 | 1.15 | 0.15 | 49.1 |
| 5/1/2015 15:47:42 | 39.70 | 36.80 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 15:47:42 | 40.03 | 37.13 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 15:47:43 | 40.35 | 37.45 | 894 | 1.15 | 0.15 | 48.9 |
| 5/1/2015 15:47:43 | 40.68 | 37.78 | 900 | 1.17 | 0.15 | 49.2 |
| 5/1/2015 15:47:44 | 41.01 | 38.11 | 900 | 1.17 | 0.15 | 49.2 |
| 5/1/2015 15:47:44 | 41.34 | 38.44 | 907 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 15:47:44 | 41.67 | 38.77 | 887 | 1.15 | 0.16 | 48.5 |
| 5/1/2015 15:47:45 | 41.99 | 39.09 | 887 | 1.17 | 0.15 | 48.5 |
| 5/1/2015 15:47:45 | 42.32 | 39.42 | 887 | 1.17 | 0.15 | 48.5 |
| 5/1/2015 15:47:45 | 42.65 | 39.75 | 896 | 1.15 | 0.14 | 49.0 |
| 5/1/2015 15:47:46 | 42.98 | 40.08 | 896 | 1.16 | 0.15 | 49.0 |
| 5/1/2015 15:47:46 | 43.31 | 40.41 | 892 | 1.12 | 0.15 | 48.8 |
| 5/1/2015 15:47:47 | 43.64 | 40.74 | 892 | 1.12 | 0.15 | 48.8 |
| 5/1/2015 15:47:47 | 43.96 | 41.06 | 867 | 1.17 | 0.15 | 47.4 |
| 5/1/2015 15:47:47 | 44.29 | 41.39 | 867 | 1.15 | 0.15 | 47.4 |
| 5/1/2015 15:47:48 | 44.62 | 41.72 | 880 | 1.15 | 0.15 | 48.1 |
| 5/1/2015 15:47:48 | 44.95 | 42.05 | 880 | 1.15 | 0.15 | 48.1 |
| 5/1/2015 15:47:48 | 45.28 | 42.38 | 900 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:47:49 | 45.60 | 42.70 | 881 | 1.16 | 0.15 | 48.2 |
| 5/1/2015 15:47:49 | 45.93 | 43.03 | 875 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 15:47:50 | 46.26 | 43.36 | 875 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 15:47:50 | 46.59 | 43.69 | 875 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 15:47:51 | 46.92 | 44.02 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 15:47:51 | 47.24 | 44.34 | 876 | 1.16 | 0.16 | 47.9 |
| 5/1/2015 15:47:52 | 47.57 | 44.67 | 885 | 1.16 | 0.16 | 48.4 |
| 5/1/2015 15:47:52 | 47.90 | 45.00 | 885 | 1.16 | 0.16 | 48.4 |
| 5/1/2015 15:47:52 | 48.23 | 45.33 | 882 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 15:47:53 | 48.56 | 45.66 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 15:47:53 | 48.88 | 45.98 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 15:47:54 | 49.21 | 46.31 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 15:47:54 | 49.54 | 46.64 | 887 | 1.15 | 0.16 | 48.5 |
| 5/1/2015 15:47:54 | 49.87 | 46.97 | 887 | 1.15 | 0.15 | 48.5 |
| 5/1/2015 15:47:55 | 50.20 | 47.30 | 887 | 1.14 | 0.16 | 48.5 |
| 5/1/2015 15:47:55 | 50.53 | 47.63 | 887 | 1.14 | 0.16 | 48.5 |
| 5/1/2015 15:47:55 | 50.85 | 47.95 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 15:47:56 | 51.18 | 48.28 | 899 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 15:47:56 | 51.51 | 48.61 | 880 | 1.17 | 0.15 | 48.1 |
| 5/1/2015 15:47:57 | 51.84 | 48.94 | 851 | 1.17 | 0.16 | 46.5 |
| 5/1/2015 15:47:57 | 52.17 | 49.27 | 851 | 1.17 | 0.16 | 46.5 |
| 5/1/2015 15:48:13 | 52.49 | 49.59 | 24 | 1.18 | 0.82 | 1.3 |
| 5/1/2015 15:48:19 | 52.82 | 49.92 | 55 | 1.18 | 1.23 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:48:20 | 53.15 | 50.25 | 142 | 1.07 | 1.11 | 7.7 |
| 5/1/2015 | 15:48:22 | 53.48 | 50.58 | 228 | 1.81 | 1.08 | 12.4 |
| 5/1/2015 | 15:48:25 | 53.81 | 50.91 | 142 | 1.21 | 1.05 | 7.8 |
| 5/1/2015 | 15:48:28 | 54.13 | 51.23 | 119 | 1.08 | 1.36 | 6.5 |
| 5/1/2015 | 15:48:31 | 54.46 | 51.56 | 105 | 1.19 | 1.22 | 5.8 |
| 5/1/2015 | 15:48:36 | 54.79 | 51.89 | 79 | 1.07 | 1.12 | 4.3 |
| 5/1/2015 | 15:48:41 | 55.12 | 52.22 | 70 | 1.08 | 1.19 | 3.9 |
| 5/1/2015 | 15:48:45 | 55.45 | 52.55 | 81 | 1.10 | 1.25 | 4.5 |
| 5/1/2015 | 15:48:50 | 55.77 | 52.87 | 67 | 1.19 | 1.13 | 3.6 |
| 5/1/2015 | 15:48:55 | 56.10 | 53.20 | 88 | 1.09 | 1.14 | 4.8 |
| 5/1/2015 | 15:49:00 | 56.43 | 53.53 | 57 | 1.18 | 0.99 | 3.1 |
| 5/1/2015 | 15:49:08 | 56.76 | 53.86 | 53 | 1.09 | 1.05 | 2.9 |
| 5/1/2015 | 15:49:15 | 57.09 | 54.19 | 53 | 1.17 | 1.09 | 2.9 |
| 5/1/2015 | 15:49:21 | 57.41 | 54.51 | 49 | 0.71 | 1.28 | 2.7 |

## L121 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:45:46

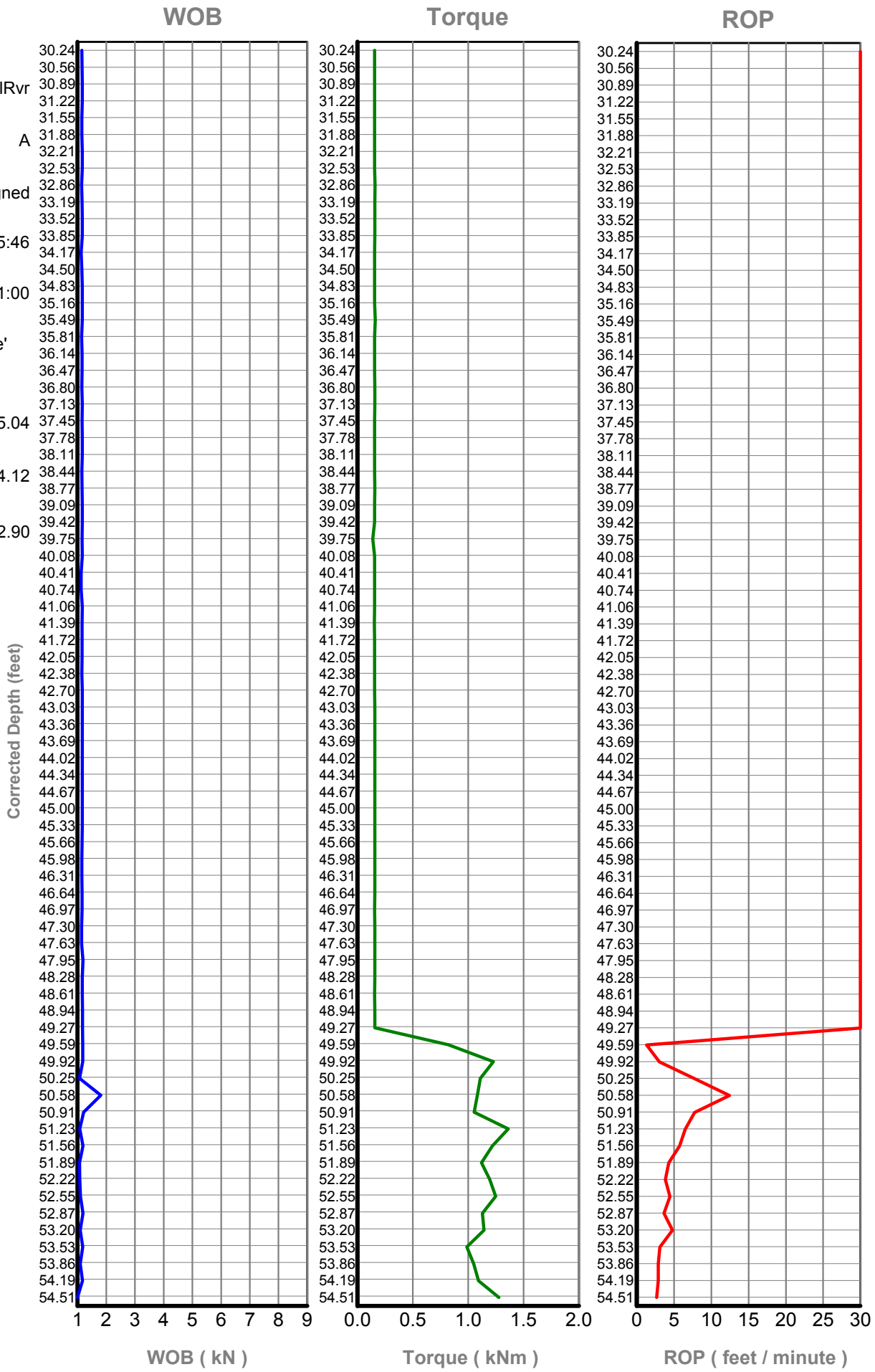
**End Date:**
5/1/2015 15:51:00

**Operator Note:**
'2.9 3.1 a Auto Complete'

**Northing:**
359,495.04

**Easting:**
241,914.12

**Tide (feet):**
2.90



## Hole: L122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:47:00 | 33.14 | 30.24 | 1,227 | 0.30 | 0.38 | 67.1 |
| 5/1/2015 15:47:01 | 33.46 | 30.56 | 1,261 | 0.30 | 0.36 | 68.9 |
| 5/1/2015 15:47:01 | 33.79 | 30.89 | 1,261 | 0.30 | 0.36 | 68.9 |
| 5/1/2015 15:47:01 | 34.12 | 31.22 | 1,240 | 0.29 | 0.36 | 67.8 |
| 5/1/2015 15:47:02 | 34.45 | 31.55 | 1,240 | 0.29 | 0.36 | 67.8 |
| 5/1/2015 15:47:02 | 34.78 | 31.88 | 1,246 | 0.29 | 0.37 | 68.1 |
| 5/1/2015 15:47:02 | 35.11 | 32.21 | 1,251 | 0.30 | 0.37 | 68.4 |
| 5/1/2015 15:47:03 | 35.43 | 32.53 | 1,251 | 0.30 | 0.37 | 68.4 |
| 5/1/2015 15:47:03 | 35.76 | 32.86 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 15:47:03 | 36.09 | 33.19 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 15:47:03 | 36.42 | 33.52 | 1,223 | 0.30 | 0.36 | 66.9 |
| 5/1/2015 15:47:04 | 36.75 | 33.85 | 1,223 | 0.30 | 0.36 | 66.9 |
| 5/1/2015 15:47:04 | 37.07 | 34.17 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/1/2015 15:47:04 | 37.40 | 34.50 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/1/2015 15:47:04 | 37.73 | 34.83 | 1,232 | 0.29 | 0.37 | 67.4 |
| 5/1/2015 15:47:05 | 38.06 | 35.16 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 15:47:05 | 38.39 | 35.49 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 15:47:05 | 38.71 | 35.81 | 1,222 | 0.30 | 0.37 | 66.8 |
| 5/1/2015 15:47:06 | 39.04 | 36.14 | 1,222 | 0.30 | 0.37 | 66.8 |
| 5/1/2015 15:47:06 | 39.37 | 36.47 | 1,255 | 0.29 | 0.36 | 68.6 |
| 5/1/2015 15:47:06 | 39.70 | 36.80 | 1,255 | 0.29 | 0.36 | 68.6 |
| 5/1/2015 15:47:06 | 40.03 | 37.13 | 1,252 | 0.10 | 0.37 | 68.5 |
| 5/1/2015 15:47:07 | 40.35 | 37.45 | 1,252 | 0.10 | 0.37 | 68.5 |
| 5/1/2015 15:47:07 | 40.68 | 37.78 | 1,249 | 0.29 | 0.37 | 68.3 |
| 5/1/2015 15:47:07 | 41.01 | 38.11 | 1,249 | 0.29 | 0.37 | 68.3 |
| 5/1/2015 15:47:07 | 41.34 | 38.44 | 1,245 | 0.29 | 0.36 | 68.1 |
| 5/1/2015 15:47:08 | 41.67 | 38.77 | 1,268 | 0.30 | 0.37 | 69.4 |
| 5/1/2015 15:47:08 | 41.99 | 39.09 | 1,268 | 0.30 | 0.37 | 69.4 |
| 5/1/2015 15:47:08 | 42.32 | 39.42 | 1,255 | 0.29 | 0.37 | 68.6 |
| 5/1/2015 15:47:09 | 42.65 | 39.75 | 1,255 | 0.29 | 0.37 | 68.6 |
| 5/1/2015 15:47:09 | 42.98 | 40.08 | 1,255 | 0.30 | 0.37 | 68.6 |
| 5/1/2015 15:47:09 | 43.31 | 40.41 | 1,255 | 0.30 | 0.37 | 68.6 |
| 5/1/2015 15:47:09 | 43.64 | 40.74 | 1,258 | 0.29 | 0.37 | 68.8 |
| 5/1/2015 15:47:10 | 43.96 | 41.06 | 1,258 | 0.29 | 0.37 | 68.8 |
| 5/1/2015 15:47:10 | 44.29 | 41.39 | 1,263 | 0.29 | 0.36 | 69.1 |
| 5/1/2015 15:47:10 | 44.62 | 41.72 | 1,263 | 0.29 | 0.36 | 69.1 |
| 5/1/2015 15:47:10 | 44.95 | 42.05 | 1,255 | 0.29 | 0.37 | 68.6 |
| 5/1/2015 15:47:11 | 45.28 | 42.38 | 1,257 | 0.29 | 0.37 | 68.8 |
| 5/1/2015 15:47:12 | 45.60 | 42.70 | 1,257 | 0.29 | 0.37 | 68.8 |
| 5/1/2015 15:47:12 | 45.93 | 43.03 | 1,247 | 0.30 | 0.36 | 68.2 |
| 5/1/2015 15:47:12 | 46.26 | 43.36 | 1,247 | 0.30 | 0.36 | 68.2 |
| 5/1/2015 15:47:12 | 46.59 | 43.69 | 1,257 | 0.30 | 0.37 | 68.8 |
| 5/1/2015 15:47:13 | 46.92 | 44.02 | 1,257 | 0.30 | 0.37 | 68.8 |
| 5/1/2015 15:47:13 | 47.24 | 44.34 | 1,237 | 0.29 | 0.36 | 67.6 |
| 5/1/2015 15:47:13 | 47.57 | 44.67 | 1,237 | 0.29 | 0.36 | 67.6 |
| 5/1/2015 15:47:13 | 47.90 | 45.00 | 1,237 | 0.29 | 0.37 | 67.6 |
| 5/1/2015 15:47:14 | 48.23 | 45.33 | 1,237 | 0.29 | 0.37 | 67.6 |
| 5/1/2015 15:47:14 | 48.56 | 45.66 | 1,242 | 0.30 | 0.35 | 67.9 |
| 5/1/2015 15:47:14 | 48.88 | 45.98 | 1,238 | 0.29 | 0.37 | 67.7 |
| 5/1/2015 15:47:15 | 49.21 | 46.31 | 1,238 | 0.29 | 0.37 | 67.7 |
| 5/1/2015 15:47:15 | 49.54 | 46.64 | 1,238 | 0.28 | 0.40 | 67.7 |
| 5/1/2015 15:47:15 | 49.87 | 46.97 | 1,238 | 0.28 | 0.40 | 67.7 |
| 5/1/2015 15:47:28 | 50.20 | 47.30 | 0 | 2.15 | 0.40 | 0.0 |
| 5/1/2015 15:47:28 | 50.53 | 47.63 | 134 | 2.18 | 0.40 | 7.3 |
| 5/1/2015 15:47:34 | 50.85 | 47.95 | 31 | 2.40 | 0.40 | 1.7 |
| 5/1/2015 15:47:35 | 51.18 | 48.28 | 31 | 2.40 | 0.40 | 1.7 |
| 5/1/2015 15:47:35 | 51.51 | 48.61 | 229 | 3.32 | 0.42 | 12.5 |
| 5/1/2015 15:47:35 | 51.84 | 48.94 | 373 | 3.18 | 0.41 | 20.4 |
| 5/1/2015 15:47:36 | 52.17 | 49.27 | 604 | 5.42 | 0.46 | 33.0 |
| 5/1/2015 15:48:03 | 52.49 | 49.59 | 52 | 4.76 | 0.43 | 2.8 |
| 5/1/2015 15:48:14 | 52.82 | 49.92 | 0 | 4.01 | 0.46 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:48:21 | 53.15 | 50.25 | 83 | 3.66 | 0.46 | 4.5 |
| 5/1/2015 | 15:48:27 | 53.48 | 50.58 | 56 | 3.15 | 0.46 | 3.1 |
| 5/1/2015 | 15:48:32 | 53.81 | 50.91 | 73 | 3.25 | 0.46 | 4.0 |
| 5/1/2015 | 15:48:36 | 54.13 | 51.23 | 93 | 3.04 | 0.45 | 5.1 |
| 5/1/2015 | 15:48:39 | 54.46 | 51.56 | 124 | 5.30 | 0.45 | 6.8 |
| 5/1/2015 | 15:48:45 | 54.79 | 51.89 | 0 | 2.88 | 0.40 | 0.0 |
| 5/1/2015 | 15:48:49 | 55.12 | 52.22 | 55 | 3.29 | 0.46 | 3.0 |
| 5/1/2015 | 15:48:57 | 55.45 | 52.55 | 50 | 3.13 | 0.47 | 2.7 |
| 5/1/2015 | 15:49:05 | 55.77 | 52.87 | 35 | 2.58 | 0.47 | 1.9 |
| 5/1/2015 | 15:49:12 | 55.98 | 53.08 | 29 | 2.54 | 0.47 | 1.6 |

## L122 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:45:12

**End Date:**
5/1/2015 15:50:18

**Operator Note:**
'2.9 3.1 b Auto Complete'

**Northing:**
359,534.16

**Easting:**
241,977.91

**Tide (feet):**
2.90



## Hole: L123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:46:07 | 33.14 | 30.24 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 15:46:08 | 33.46 | 30.56 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:08 | 33.79 | 30.89 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:08 | 34.12 | 31.22 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 15:46:09 | 34.45 | 31.55 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:10 | 34.78 | 31.88 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:10 | 35.11 | 32.21 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:10 | 35.43 | 32.53 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:10 | 35.76 | 32.86 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:11 | 36.09 | 33.19 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:46:11 | 36.42 | 33.52 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:46:11 | 36.75 | 33.85 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 15:46:12 | 37.07 | 34.17 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:12 | 37.40 | 34.50 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:12 | 37.73 | 34.83 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:13 | 38.06 | 35.16 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 15:46:13 | 38.39 | 35.49 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:46:13 | 38.71 | 35.81 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 15:46:14 | 39.04 | 36.14 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 15:46:14 | 39.37 | 36.47 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 15:46:14 | 39.70 | 36.80 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:15 | 40.03 | 37.13 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:15 | 40.35 | 37.45 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:15 | 40.68 | 37.78 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:15 | 41.01 | 38.11 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:16 | 41.34 | 38.44 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:16 | 41.67 | 38.77 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:46:16 | 41.99 | 39.09 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:46:17 | 42.32 | 39.42 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:46:17 | 42.65 | 39.75 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:46:17 | 42.98 | 40.08 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:18 | 43.31 | 40.41 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:18 | 43.64 | 40.74 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 15:46:18 | 43.96 | 41.06 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:19 | 44.29 | 41.39 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:19 | 44.62 | 41.72 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:46:19 | 44.95 | 42.05 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 15:46:20 | 45.28 | 42.38 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 15:46:20 | 45.60 | 42.70 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:20 | 45.93 | 43.03 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:46:21 | 46.26 | 43.36 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:46:21 | 46.59 | 43.69 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:46:22 | 46.92 | 44.02 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:46:22 | 47.24 | 44.34 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:46:22 | 47.57 | 44.67 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:23 | 47.90 | 45.00 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:23 | 48.23 | 45.33 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:46:23 | 48.56 | 45.66 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 15:46:24 | 48.88 | 45.98 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 15:46:24 | 49.21 | 46.31 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:46:40 | 49.54 | 46.64 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 15:46:41 | 49.87 | 46.97 | 198 | 1.14 | 0.29 | 10.8 |
| 5/1/2015 15:46:43 | 50.20 | 47.30 | 297 | 1.14 | 0.29 | 16.2 |
| 5/1/2015 15:46:44 | 50.53 | 47.63 | 268 | 1.14 | 0.29 | 14.6 |
| 5/1/2015 15:46:45 | 50.85 | 47.95 | 309 | 1.14 | 0.29 | 16.9 |
| 5/1/2015 15:46:45 | 51.18 | 48.28 | 363 | 1.14 | 0.29 | 19.8 |
| 5/1/2015 15:46:46 | 51.51 | 48.61 | 437 | 1.14 | 0.29 | 23.9 |
| 5/1/2015 15:46:47 | 51.84 | 48.94 | 509 | 1.14 | 0.29 | 27.9 |
| 5/1/2015 15:46:47 | 52.17 | 49.27 | 531 | 1.14 | 0.29 | 29.0 |
| 5/1/2015 15:46:48 | 52.49 | 49.59 | 517 | 1.14 | 0.29 | 28.3 |
| 5/1/2015 15:47:17 | 52.82 | 49.92 | 37 | 1.14 | 0.29 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:47:18 | 53.15 | 50.25 | 225 | 1.14 | 0.29 | 12.3 |
| 5/1/2015 | 15:47:19 | 53.48 | 50.58 | 319 | 1.14 | 0.29 | 17.5 |
| 5/1/2015 | 15:47:21 | 53.81 | 50.91 | 372 | 1.14 | 0.29 | 20.3 |
| 5/1/2015 | 15:47:59 | 54.13 | 51.23 | 107 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 15:48:00 | 54.46 | 51.56 | 226 | 1.14 | 0.29 | 12.4 |
| 5/1/2015 | 15:48:01 | 54.79 | 51.89 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 | 15:48:02 | 55.12 | 52.22 | 341 | 1.14 | 0.29 | 18.7 |
| 5/1/2015 | 15:48:10 | 55.45 | 52.55 | 53 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 15:48:14 | 55.77 | 52.87 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 15:48:23 | 56.10 | 53.20 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 15:48:31 | 56.43 | 53.53 | 38 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 | 15:48:37 | 56.65 | 53.75 | 44 | 1.14 | 0.29 | 2.4 |

## L123 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:45:04

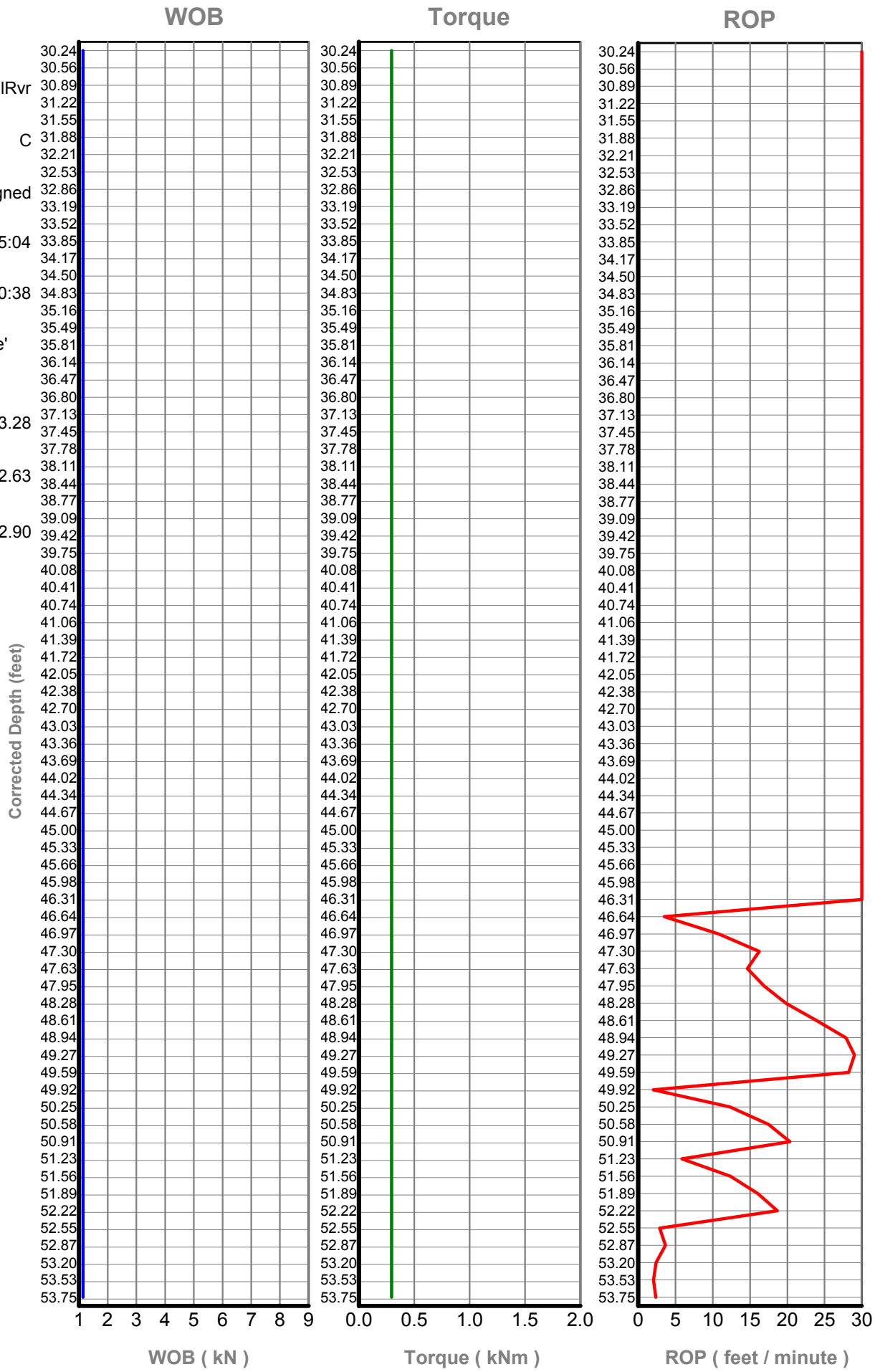
**End Date:**
5/1/2015 15:50:38

**Operator Note:**
'2.9 3.1 c Auto Complete'

**Northing:**
359,573.28

**Easting:**
242,042.63

**Tide (feet):**
2.90



## Hole: L124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:55:28 | 33.79 | 30.09 | 889 | 1.15 | 0.41 | 48.6 |
| 5/1/2015 14:55:28 | 34.12 | 30.42 | 906 | 1.13 | 0.40 | 49.6 |
| 5/1/2015 14:55:29 | 34.45 | 30.75 | 906 | 1.13 | 0.40 | 49.6 |
| 5/1/2015 14:55:29 | 34.78 | 31.08 | 880 | 1.11 | 0.42 | 48.1 |
| 5/1/2015 14:55:29 | 35.11 | 31.41 | 880 | 1.15 | 0.37 | 48.1 |
| 5/1/2015 14:55:30 | 35.43 | 31.73 | 907 | 1.14 | 0.41 | 49.6 |
| 5/1/2015 14:55:30 | 35.76 | 32.06 | 907 | 1.14 | 0.41 | 49.6 |
| 5/1/2015 14:55:30 | 36.09 | 32.39 | 907 | 1.15 | 0.41 | 49.6 |
| 5/1/2015 14:55:31 | 36.42 | 32.72 | 898 | 1.14 | 0.42 | 49.1 |
| 5/1/2015 14:55:31 | 36.75 | 33.05 | 879 | 1.13 | 0.43 | 48.1 |
| 5/1/2015 14:55:32 | 37.07 | 33.37 | 879 | 1.13 | 0.43 | 48.1 |
| 5/1/2015 14:55:32 | 37.40 | 33.70 | 879 | 1.13 | 0.40 | 48.1 |
| 5/1/2015 14:55:32 | 37.73 | 34.03 | 879 | 1.13 | 0.41 | 48.1 |
| 5/1/2015 14:55:33 | 38.06 | 34.36 | 879 | 1.13 | 0.40 | 48.1 |
| 5/1/2015 14:55:33 | 38.39 | 34.69 | 879 | 1.13 | 0.40 | 48.1 |
| 5/1/2015 14:55:33 | 38.71 | 35.01 | 902 | 1.14 | 0.41 | 49.3 |
| 5/1/2015 14:55:34 | 39.04 | 35.34 | 902 | 1.13 | 0.40 | 49.3 |
| 5/1/2015 14:55:34 | 39.37 | 35.67 | 899 | 1.13 | 0.40 | 49.2 |
| 5/1/2015 14:55:35 | 39.70 | 36.00 | 899 | 1.13 | 0.40 | 49.2 |
| 5/1/2015 14:55:35 | 40.03 | 36.33 | 899 | 1.15 | 0.44 | 49.2 |
| 5/1/2015 14:55:36 | 40.35 | 36.65 | 901 | 1.13 | 0.39 | 49.3 |
| 5/1/2015 14:55:36 | 40.68 | 36.98 | 903 | 1.15 | 0.40 | 49.4 |
| 5/1/2015 14:55:37 | 41.01 | 37.31 | 903 | 1.15 | 0.40 | 49.4 |
| 5/1/2015 14:55:37 | 41.34 | 37.64 | 906 | 1.14 | 0.40 | 49.5 |
| 5/1/2015 14:55:37 | 41.67 | 37.97 | 887 | 1.13 | 0.40 | 48.5 |
| 5/1/2015 14:55:38 | 41.99 | 38.29 | 895 | 1.14 | 0.43 | 48.9 |
| 5/1/2015 14:55:38 | 42.32 | 38.62 | 895 | 1.14 | 0.43 | 48.9 |
| 5/1/2015 14:55:38 | 42.65 | 38.95 | 889 | 1.12 | 0.41 | 48.6 |
| 5/1/2015 14:55:39 | 42.98 | 39.28 | 889 | 1.13 | 0.42 | 48.6 |
| 5/1/2015 14:55:39 | 43.31 | 39.61 | 907 | 1.13 | 0.40 | 49.6 |
| 5/1/2015 14:55:40 | 43.64 | 39.94 | 907 | 1.13 | 0.40 | 49.6 |
| 5/1/2015 14:55:40 | 43.96 | 40.26 | 907 | 1.13 | 0.41 | 49.6 |
| 5/1/2015 14:55:40 | 44.29 | 40.59 | 894 | 1.12 | 0.41 | 48.9 |
| 5/1/2015 14:55:41 | 44.62 | 40.92 | 894 | 1.14 | 0.40 | 48.9 |
| 5/1/2015 14:55:41 | 44.95 | 41.25 | 894 | 1.14 | 0.40 | 48.9 |
| 5/1/2015 14:55:41 | 45.28 | 41.58 | 908 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 14:55:42 | 45.60 | 41.90 | 905 | 1.15 | 0.15 | 49.5 |
| 5/1/2015 14:55:42 | 45.93 | 42.23 | 905 | 1.14 | 0.15 | 49.5 |
| 5/1/2015 14:55:43 | 46.26 | 42.56 | 907 | 1.14 | 0.15 | 49.6 |
| 5/1/2015 14:55:43 | 46.59 | 42.89 | 907 | 1.14 | 0.15 | 49.6 |
| 5/1/2015 14:55:43 | 46.92 | 43.22 | 900 | 1.12 | 0.15 | 49.2 |
| 5/1/2015 14:55:44 | 47.24 | 43.54 | 900 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 14:55:44 | 47.57 | 43.87 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 14:55:45 | 47.90 | 44.20 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 14:55:45 | 48.23 | 44.53 | 899 | 1.13 | 0.15 | 49.2 |
| 5/1/2015 14:55:45 | 48.56 | 44.86 | 902 | 1.14 | 0.15 | 49.3 |
| 5/1/2015 14:55:46 | 48.88 | 45.18 | 902 | 1.13 | 0.15 | 49.3 |
| 5/1/2015 14:55:47 | 49.21 | 45.51 | 902 | 1.13 | 0.15 | 49.3 |
| 5/1/2015 14:55:47 | 49.54 | 45.84 | 894 | 1.15 | 0.15 | 48.9 |
| 5/1/2015 14:55:47 | 49.87 | 46.17 | 892 | 1.18 | 0.15 | 48.8 |
| 5/1/2015 14:55:59 | 50.20 | 46.50 | 3 | 1.13 | 0.75 | 0.2 |
| 5/1/2015 14:56:00 | 50.53 | 46.83 | 3 | 1.15 | 0.86 | 0.2 |
| 5/1/2015 14:56:00 | 50.85 | 47.15 | 111 | 1.15 | 0.80 | 6.1 |
| 5/1/2015 14:56:01 | 51.18 | 47.48 | 197 | 1.19 | 1.06 | 10.8 |
| 5/1/2015 14:56:08 | 51.51 | 47.81 | 19 | 1.14 | 1.16 | 1.0 |
| 5/1/2015 14:56:11 | 51.84 | 48.14 | 104 | 1.13 | 1.29 | 5.7 |
| 5/1/2015 14:56:15 | 52.17 | 48.47 | 66 | 1.07 | 1.21 | 3.6 |
| 5/1/2015 14:56:22 | 52.49 | 48.79 | 60 | 1.05 | 1.00 | 3.3 |
| 5/1/2015 14:56:27 | 52.82 | 49.12 | 58 | 1.03 | 1.12 | 3.2 |
| 5/1/2015 14:56:31 | 53.15 | 49.45 | 81 | 1.10 | 1.20 | 4.4 |
| 5/1/2015 14:56:34 | 53.48 | 49.78 | 109 | 1.11 | 1.17 | 5.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:56:38 | 53.81 | 50.11 | 113 | 1.13 | 1.24 | 6.2 |
| 5/1/2015 | 14:56:42 | 54.13 | 50.43 | 75 | 1.15 | 1.18 | 4.1 |
| 5/1/2015 | 14:56:47 | 54.46 | 50.76 | 76 | 1.07 | 1.19 | 4.1 |
| 5/1/2015 | 14:56:52 | 54.79 | 51.09 | 74 | 1.12 | 1.34 | 4.0 |
| 5/1/2015 | 14:56:56 | 55.12 | 51.42 | 82 | 1.13 | 1.23 | 4.5 |
| 5/1/2015 | 14:57:03 | 55.45 | 51.75 | 57 | 1.12 | 1.19 | 3.1 |
| 5/1/2015 | 14:57:07 | 55.77 | 52.07 | 67 | 1.12 | 1.35 | 3.7 |
| 5/1/2015 | 14:57:13 | 56.10 | 52.40 | 74 | 1.10 | 1.06 | 4.0 |
| 5/1/2015 | 14:57:16 | 56.43 | 52.73 | 92 | 1.10 | 1.12 | 5.1 |
| 5/1/2015 | 14:57:20 | 56.76 | 53.06 | 110 | 1.14 | 1.07 | 6.0 |
| 5/1/2015 | 14:57:24 | 57.09 | 53.39 | 82 | 1.05 | 1.39 | 4.5 |
| 5/1/2015 | 14:57:28 | 57.41 | 53.71 | 77 | 1.02 | 1.11 | 4.2 |
| 5/1/2015 | 14:57:32 | 57.74 | 54.04 | 100 | 1.11 | 1.10 | 5.5 |
| 5/1/2015 | 14:57:35 | 58.07 | 54.37 | 106 | 1.01 | 1.14 | 5.8 |
| 5/1/2015 | 14:57:42 | 58.40 | 54.70 | 51 | 1.09 | 1.03 | 2.8 |
| 5/1/2015 | 14:57:50 | 58.73 | 55.03 | 39 | 1.03 | 1.05 | 2.1 |
| 5/1/2015 | 14:57:56 | 58.87 | 55.17 | 21 | 1.30 | 1.04 | 1.1 |

## L124 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:54:06

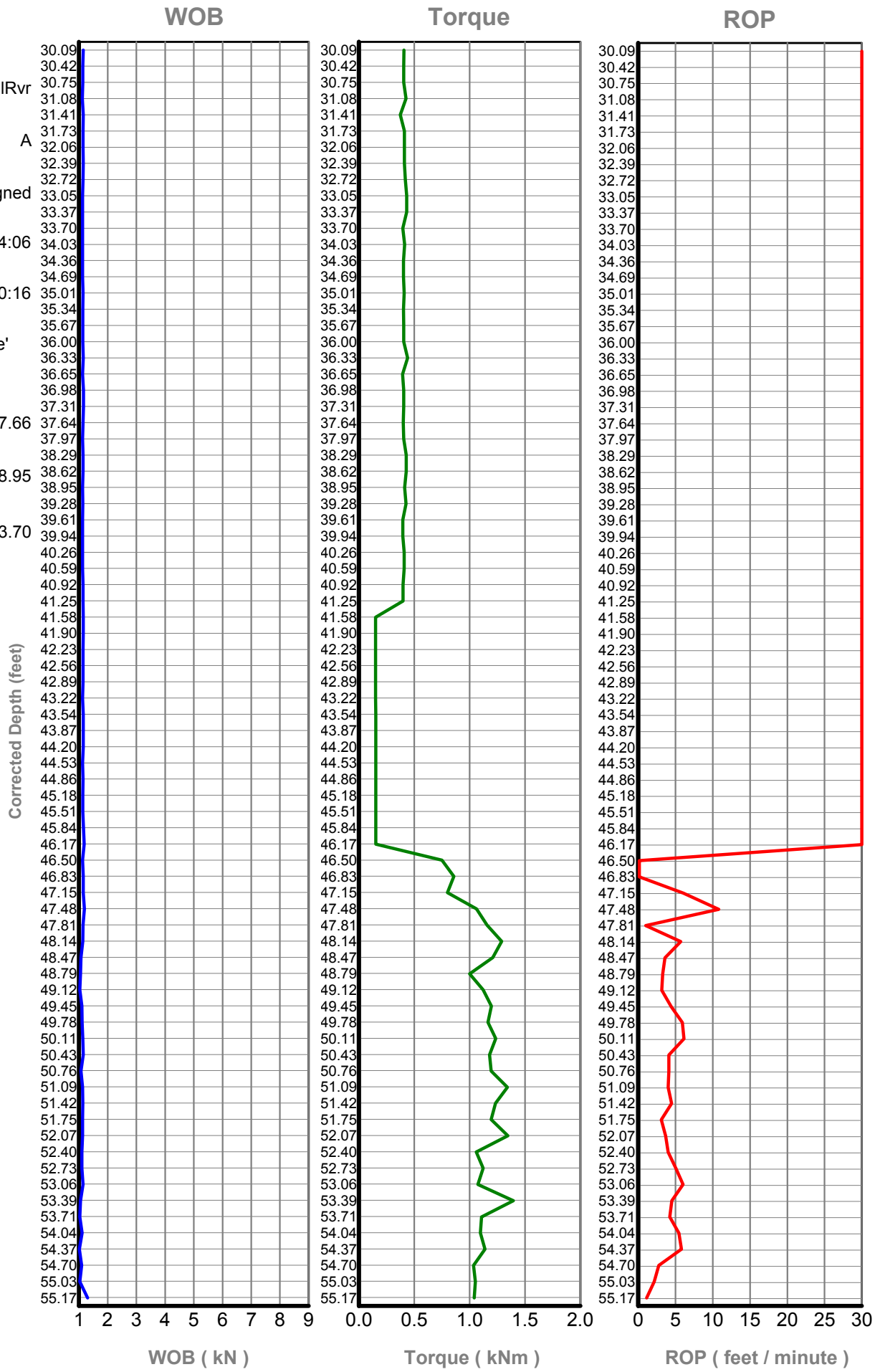
**End Date:**
5/1/2015 15:00:16

**Operator Note:**
'3.7 3.9 a Auto Complete'

**Northing:**
359,617.66

**Easting:**
242,108.95

**Tide (feet):**
3.70



## Hole: L125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:55:25 | 33.79 | 30.09 | 1,208 | 0.30 | 0.37 | 66.0 |
| 5/1/2015 14:55:25 | 34.12 | 30.42 | 1,193 | 0.29 | 0.36 | 65.2 |
| 5/1/2015 14:55:26 | 34.45 | 30.75 | 1,193 | 0.29 | 0.36 | 65.2 |
| 5/1/2015 14:55:26 | 34.78 | 31.08 | 1,187 | 0.29 | 0.37 | 64.9 |
| 5/1/2015 14:55:27 | 35.11 | 31.41 | 1,187 | 0.29 | 0.37 | 64.9 |
| 5/1/2015 14:55:26 | 35.43 | 31.73 | 1,214 | 0.30 | 0.37 | 66.4 |
| 5/1/2015 14:55:27 | 35.76 | 32.06 | 1,204 | 0.30 | 0.38 | 65.8 |
| 5/1/2015 14:55:28 | 36.09 | 32.39 | 1,204 | 0.30 | 0.38 | 65.8 |
| 5/1/2015 14:55:28 | 36.42 | 32.72 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/1/2015 14:55:28 | 36.75 | 33.05 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/1/2015 14:55:28 | 37.07 | 33.37 | 1,192 | 0.30 | 0.37 | 65.2 |
| 5/1/2015 14:55:29 | 37.40 | 33.70 | 1,192 | 0.30 | 0.37 | 65.2 |
| 5/1/2015 14:55:29 | 37.73 | 34.03 | 1,182 | 0.33 | 0.38 | 64.6 |
| 5/1/2015 14:55:29 | 38.06 | 34.36 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 14:55:30 | 38.39 | 34.69 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 14:55:30 | 38.71 | 35.01 | 1,184 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 14:55:30 | 39.04 | 35.34 | 1,184 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 14:55:30 | 39.37 | 35.67 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/1/2015 14:55:31 | 39.70 | 36.00 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/1/2015 14:55:31 | 40.03 | 36.33 | 1,193 | 0.29 | 0.38 | 65.2 |
| 5/1/2015 14:55:31 | 40.35 | 36.65 | 1,209 | 0.29 | 0.36 | 66.1 |
| 5/1/2015 14:55:32 | 40.68 | 36.98 | 1,209 | 0.29 | 0.36 | 66.1 |
| 5/1/2015 14:55:32 | 41.01 | 37.31 | 1,194 | 0.30 | 0.38 | 65.3 |
| 5/1/2015 14:55:32 | 41.34 | 37.64 | 1,194 | 0.30 | 0.38 | 65.3 |
| 5/1/2015 14:55:32 | 41.67 | 37.97 | 1,197 | 0.30 | 0.38 | 65.4 |
| 5/1/2015 14:55:33 | 41.99 | 38.29 | 1,197 | 0.30 | 0.38 | 65.4 |
| 5/1/2015 14:55:33 | 42.32 | 38.62 | 1,200 | 0.29 | 0.38 | 65.6 |
| 5/1/2015 14:55:33 | 42.65 | 38.95 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:55:34 | 42.98 | 39.28 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:55:34 | 43.31 | 39.61 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 14:55:34 | 43.64 | 39.94 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 14:55:34 | 43.96 | 40.26 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:55:35 | 44.29 | 40.59 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:55:35 | 44.62 | 40.92 | 1,205 | 0.30 | 0.38 | 65.9 |
| 5/1/2015 14:55:36 | 44.95 | 41.25 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:55:36 | 45.28 | 41.58 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:55:36 | 45.60 | 41.90 | 1,172 | 0.29 | 0.36 | 64.1 |
| 5/1/2015 14:55:36 | 45.93 | 42.23 | 1,172 | 0.29 | 0.36 | 64.1 |
| 5/1/2015 14:55:37 | 46.26 | 42.56 | 1,172 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 14:55:37 | 46.59 | 42.89 | 1,172 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 14:55:37 | 46.92 | 43.22 | 1,181 | 0.29 | 0.37 | 64.6 |
| 5/1/2015 14:55:38 | 47.24 | 43.54 | 1,188 | 0.29 | 0.36 | 65.0 |
| 5/1/2015 14:55:38 | 47.57 | 43.87 | 1,188 | 0.29 | 0.36 | 65.0 |
| 5/1/2015 14:55:38 | 47.90 | 44.20 | 1,178 | 0.29 | 0.37 | 64.4 |
| 5/1/2015 14:55:39 | 48.23 | 44.53 | 1,178 | 0.29 | 0.37 | 64.4 |
| 5/1/2015 14:55:39 | 48.56 | 44.86 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 14:55:39 | 48.88 | 45.18 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 14:55:39 | 49.21 | 45.51 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/1/2015 14:55:40 | 49.54 | 45.84 | 1,202 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 14:55:40 | 49.87 | 46.17 | 1,202 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 14:55:40 | 50.20 | 46.50 | 1,202 | 0.30 | 0.37 | 65.8 |
| 5/1/2015 14:55:41 | 50.53 | 46.83 | 1,202 | 0.30 | 0.37 | 65.8 |
| 5/1/2015 14:55:41 | 50.85 | 47.15 | 1,193 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 14:55:41 | 51.18 | 47.48 | 1,193 | 0.29 | 0.37 | 65.3 |
| 5/1/2015 14:55:41 | 51.51 | 47.81 | 1,193 | 0.27 | 0.41 | 65.3 |
| 5/1/2015 14:55:48 | 51.84 | 48.14 | 84 | 3.34 | 0.44 | 4.6 |
| 5/1/2015 14:55:51 | 52.17 | 48.47 | 112 | 3.54 | 0.48 | 6.1 |
| 5/1/2015 14:55:54 | 52.49 | 48.79 | 136 | 3.01 | 0.44 | 7.4 |
| 5/1/2015 14:55:55 | 52.82 | 49.12 | 177 | 3.73 | 0.43 | 9.7 |
| 5/1/2015 14:56:00 | 53.15 | 49.45 | 30 | 4.01 | 0.45 | 1.7 |
| 5/1/2015 14:56:02 | 53.48 | 49.78 | 186 | 3.94 | 0.45 | 10.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 14:56:05 | 53.81 | 50.11 | 145 | 3.60 | 0.46 | 7.9 |
| 5/1/2015 14:56:08 | 54.13 | 50.43 | 110 | 3.31 | 0.45 | 6.0 |
| 5/1/2015 14:56:12 | 54.46 | 50.76 | 100 | 3.41 | 0.46 | 5.4 |
| 5/1/2015 14:56:17 | 54.79 | 51.09 | 66 | 3.12 | 0.46 | 3.6 |
| 5/1/2015 14:56:23 | 55.12 | 51.42 | 66 | 3.83 | 0.46 | 3.6 |
| 5/1/2015 14:56:26 | 55.45 | 51.75 | 99 | 3.66 | 0.45 | 5.4 |
| 5/1/2015 14:56:29 | 55.77 | 52.07 | 127 | 3.71 | 0.46 | 6.9 |
| 5/1/2015 14:56:32 | 56.10 | 52.40 | 108 | 3.64 | 0.45 | 5.9 |
| 5/1/2015 14:56:36 | 56.43 | 52.73 | 99 | 3.63 | 0.47 | 5.4 |
| 5/1/2015 14:56:49 | 56.76 | 53.06 | 72 | 3.26 | 0.46 | 3.9 |
| 5/1/2015 14:56:52 | 57.09 | 53.39 | 128 | 3.52 | 0.46 | 7.0 |
| 5/1/2015 14:56:55 | 57.41 | 53.71 | 101 | 3.44 | 0.46 | 5.5 |
| 5/1/2015 14:56:59 | 57.74 | 54.04 | 90 | 3.35 | 0.46 | 4.9 |
| 5/1/2015 14:57:04 | 58.07 | 54.37 | 89 | 3.32 | 0.45 | 4.9 |
| 5/1/2015 14:57:07 | 58.40 | 54.70 | 107 | 3.38 | 0.45 | 5.9 |
| 5/1/2015 14:57:10 | 58.73 | 55.03 | 111 | 3.26 | 0.46 | 6.1 |
| 5/1/2015 14:57:13 | 58.96 | 55.26 | 85 | 4.05 | 0.46 | 4.6 |

## L125 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:53:40

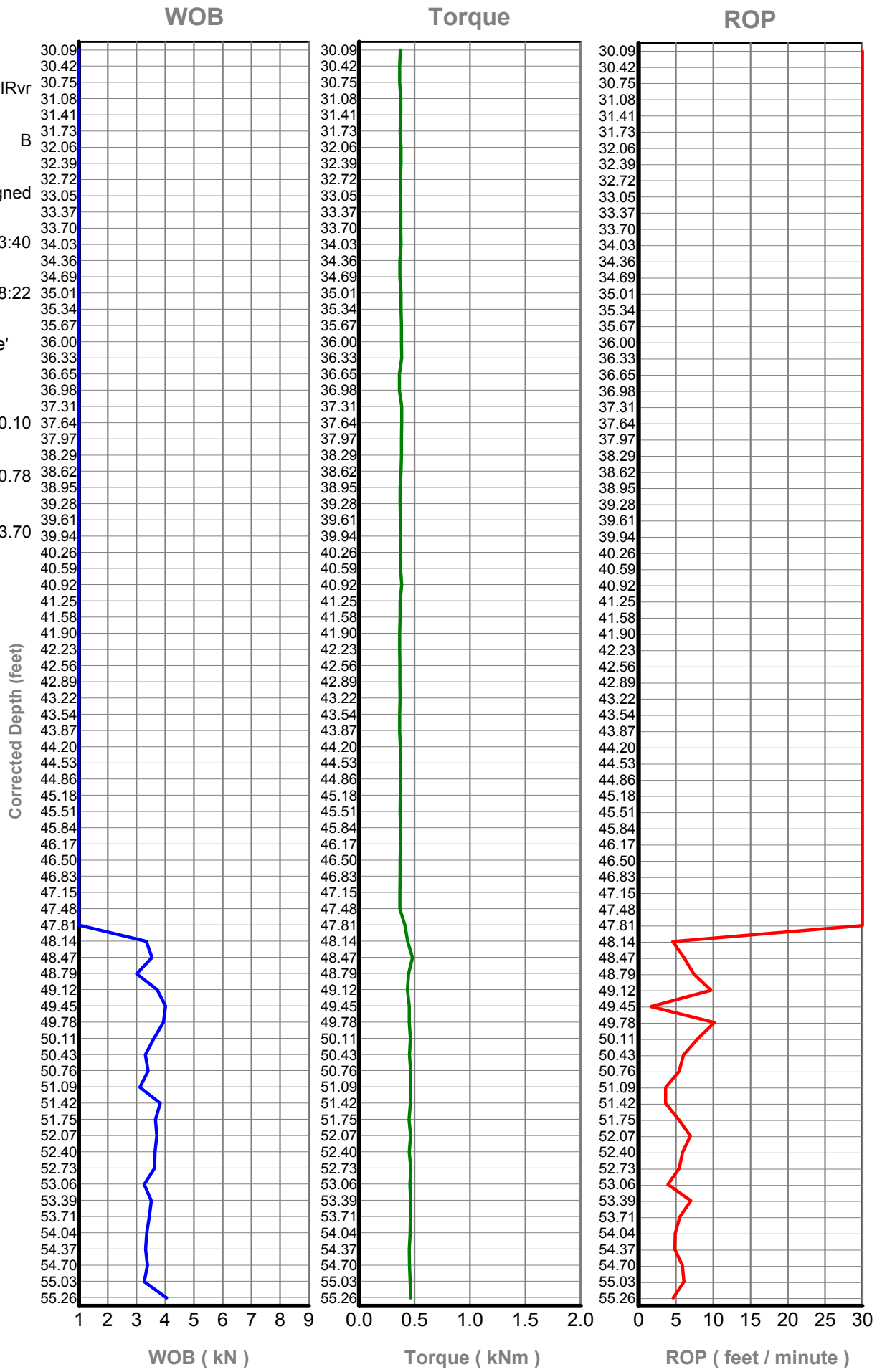
**End Date:**
5/1/2015 14:58:22

**Operator Note:**
'3.7 3.9 b Auto Complete'

**Northing:**
359,660.10

**Easting:**
242,170.78

**Tide (feet):**
3.70



## Hole: L126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:55:04 | 33.79 | 30.09 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:55:04 | 34.12 | 30.42 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:55:05 | 34.45 | 30.75 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:55:05 | 34.78 | 31.08 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:55:05 | 35.11 | 31.41 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:06 | 35.43 | 31.73 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:06 | 35.76 | 32.06 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:06 | 36.09 | 32.39 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:07 | 36.42 | 32.72 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:07 | 36.75 | 33.05 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:07 | 37.07 | 33.37 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:08 | 37.40 | 33.70 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:08 | 37.73 | 34.03 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:55:08 | 38.06 | 34.36 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:55:08 | 38.39 | 34.69 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:55:09 | 38.71 | 35.01 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:09 | 39.04 | 35.34 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:09 | 39.37 | 35.67 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:55:10 | 39.70 | 36.00 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:55:11 | 40.03 | 36.33 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:55:11 | 40.35 | 36.65 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:55:11 | 40.68 | 36.98 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:55:11 | 41.01 | 37.31 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:55:11 | 41.34 | 37.64 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:55:12 | 41.67 | 37.97 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:55:12 | 41.99 | 38.29 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:55:13 | 42.32 | 38.62 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:55:13 | 42.65 | 38.95 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:55:13 | 42.98 | 39.28 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:55:14 | 43.31 | 39.61 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:55:14 | 43.64 | 39.94 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:55:14 | 43.96 | 40.26 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:55:14 | 44.29 | 40.59 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:55:15 | 44.62 | 40.92 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:55:15 | 44.95 | 41.25 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:55:16 | 45.28 | 41.58 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:55:16 | 45.60 | 41.90 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:55:16 | 45.93 | 42.23 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:55:17 | 46.26 | 42.56 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:17 | 46.59 | 42.89 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:55:17 | 46.92 | 43.22 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:55:18 | 47.24 | 43.54 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:55:18 | 47.57 | 43.87 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:55:18 | 47.90 | 44.20 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:55:19 | 48.23 | 44.53 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:55:19 | 48.56 | 44.86 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:55:19 | 48.88 | 45.18 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:55:20 | 49.21 | 45.51 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:55:33 | 49.54 | 45.84 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 14:55:34 | 49.87 | 46.17 | 249 | 1.14 | 0.29 | 13.6 |
| 5/1/2015 14:55:34 | 50.20 | 46.50 | 376 | 1.14 | 0.29 | 20.6 |
| 5/1/2015 14:55:36 | 50.53 | 46.83 | 509 | 1.14 | 0.29 | 27.8 |
| 5/1/2015 14:55:36 | 50.85 | 47.15 | 451 | 1.14 | 0.29 | 24.7 |
| 5/1/2015 14:55:37 | 51.18 | 47.48 | 432 | 1.14 | 0.29 | 23.6 |
| 5/1/2015 14:55:38 | 51.51 | 47.81 | 480 | 1.14 | 0.29 | 26.3 |
| 5/1/2015 14:55:38 | 51.84 | 48.14 | 533 | 1.14 | 0.29 | 29.1 |
| 5/1/2015 14:55:39 | 52.17 | 48.47 | 576 | 1.14 | 0.29 | 31.5 |
| 5/1/2015 14:55:39 | 52.49 | 48.79 | 573 | 1.14 | 0.29 | 31.3 |
| 5/1/2015 14:55:40 | 52.82 | 49.12 | 553 | 1.14 | 0.29 | 30.2 |
| 5/1/2015 14:57:06 | 53.15 | 49.45 | 56 | 1.14 | 0.29 | 3.1 |
| 5/1/2015 14:57:07 | 53.48 | 49.78 | 212 | 1.14 | 0.29 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:57:08 | 53.81 | 50.11 | 363 | 1.14 | 0.29 | 19.9 |
| 5/1/2015 | 14:57:09 | 54.13 | 50.43 | 381 | 1.14 | 0.29 | 20.8 |
| 5/1/2015 | 14:57:50 | 54.46 | 50.76 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 14:57:51 | 54.79 | 51.09 | 159 | 1.14 | 0.29 | 8.7 |
| 5/1/2015 | 14:57:52 | 55.12 | 51.42 | 299 | 1.14 | 0.29 | 16.3 |
| 5/1/2015 | 14:57:53 | 55.45 | 51.75 | 306 | 1.14 | 0.29 | 16.7 |
| 5/1/2015 | 14:58:11 | 55.77 | 52.07 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 | 14:58:14 | 56.10 | 52.40 | 138 | 1.14 | 0.29 | 7.5 |
| 5/1/2015 | 14:58:16 | 56.43 | 52.73 | 155 | 1.14 | 0.29 | 8.5 |
| 5/1/2015 | 14:58:34 | 56.76 | 53.06 | 30 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 14:59:22 | 57.09 | 53.39 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 14:59:26 | 57.41 | 53.71 | 85 | 1.14 | 0.29 | 4.7 |
| 5/1/2015 | 15:00:11 | 57.74 | 54.04 | 3 | 1.14 | 0.29 | 0.2 |
| 5/1/2015 | 15:00:26 | 58.07 | 54.37 | 11 | 1.14 | 0.29 | 0.6 |
| 5/1/2015 | 15:00:36 | 58.40 | 54.70 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 15:02:18 | 58.73 | 55.03 | 38 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 | 15:02:22 | 58.90 | 55.20 | 38 | 1.14 | 0.29 | 2.1 |

## L126 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:53:30

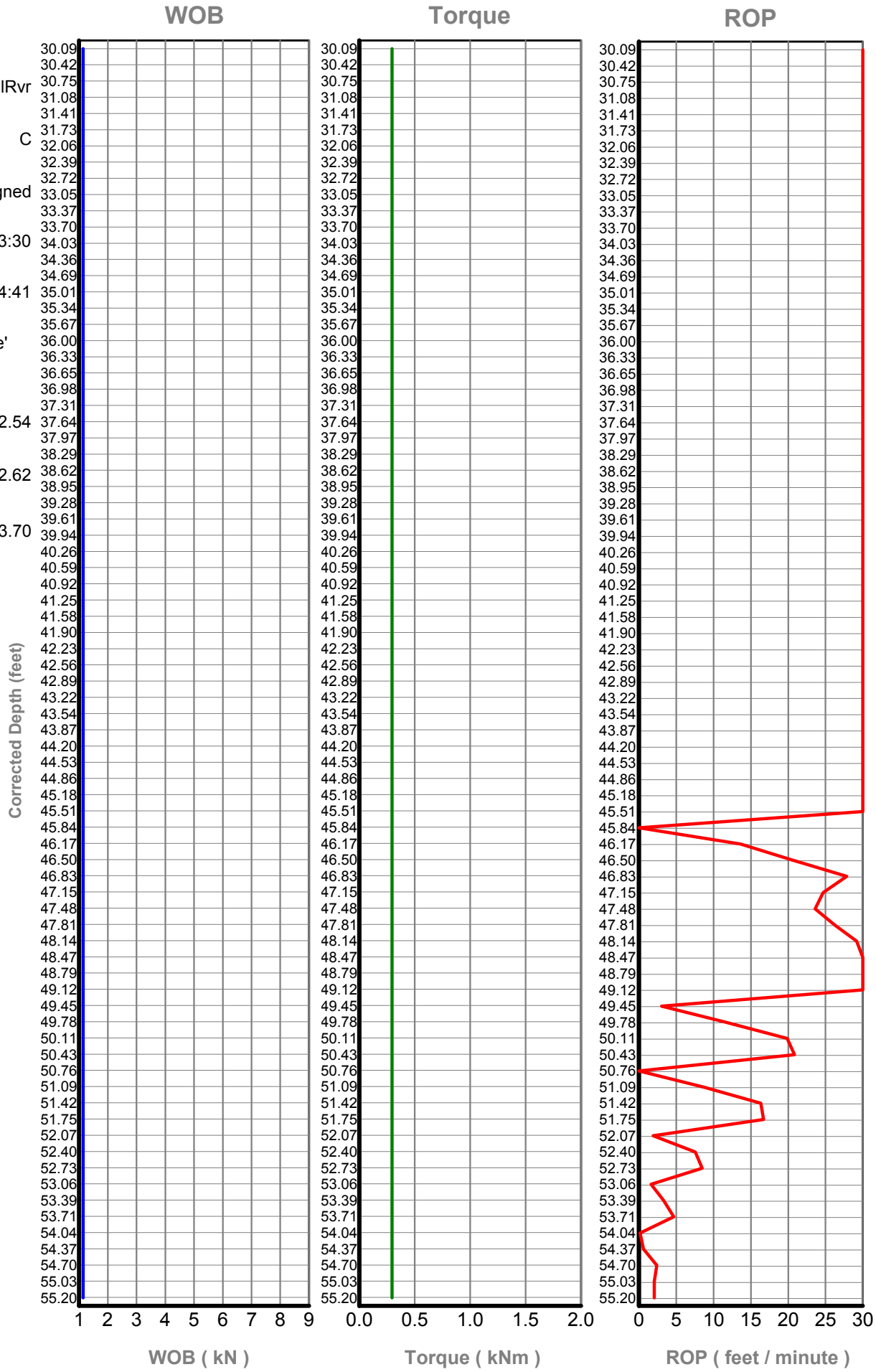
**End Date:**
5/1/2015 15:04:41

**Operator Note:**
'3.7 3.9 c Auto Complete'

**Northing:**
359,702.54

**Easting:**
242,232.62

**Tide (feet):**
3.70



## Hole: L127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:51:32 | 31.17 | 30.07 | 1,248 | 1.83 | 0.24 | 68.2 |
| 5/1/2015 5:51:32 | 31.50 | 30.40 | 1,237 | 1.85 | 0.24 | 67.7 |
| 5/1/2015 5:51:33 | 31.82 | 30.72 | 1,237 | 1.85 | 0.24 | 67.7 |
| 5/1/2015 5:51:33 | 32.15 | 31.05 | 1,227 | 1.84 | 0.24 | 67.1 |
| 5/1/2015 5:51:33 | 32.48 | 31.38 | 1,227 | 1.84 | 0.24 | 67.1 |
| 5/1/2015 5:51:33 | 32.81 | 31.71 | 1,240 | 1.84 | 0.24 | 67.8 |
| 5/1/2015 5:51:34 | 33.14 | 32.04 | 1,240 | 1.84 | 0.24 | 67.8 |
| 5/1/2015 5:51:34 | 33.46 | 32.36 | 1,234 | 1.85 | 0.24 | 67.5 |
| 5/1/2015 5:51:34 | 33.79 | 32.69 | 1,234 | 1.85 | 0.24 | 67.5 |
| 5/1/2015 5:51:34 | 34.12 | 33.02 | 1,237 | 1.84 | 0.24 | 67.7 |
| 5/1/2015 5:51:35 | 34.45 | 33.35 | 1,237 | 1.85 | 0.24 | 67.7 |
| 5/1/2015 5:51:35 | 34.78 | 33.68 | 1,237 | 1.85 | 0.24 | 67.7 |
| 5/1/2015 5:51:35 | 35.11 | 34.01 | 1,240 | 1.83 | 0.24 | 67.8 |
| 5/1/2015 5:51:36 | 35.43 | 34.33 | 1,240 | 1.83 | 0.24 | 67.8 |
| 5/1/2015 5:51:36 | 35.76 | 34.66 | 1,234 | 1.83 | 0.24 | 67.5 |
| 5/1/2015 5:51:36 | 36.09 | 34.99 | 1,234 | 1.83 | 0.24 | 67.5 |
| 5/1/2015 5:51:36 | 36.42 | 35.32 | 1,234 | 1.82 | 0.24 | 67.5 |
| 5/1/2015 5:51:37 | 36.75 | 35.65 | 1,234 | 1.82 | 0.24 | 67.5 |
| 5/1/2015 5:51:37 | 37.07 | 35.97 | 1,227 | 1.84 | 0.24 | 67.1 |
| 5/1/2015 5:51:37 | 37.40 | 36.30 | 1,237 | 1.83 | 0.24 | 67.7 |
| 5/1/2015 5:51:38 | 37.73 | 36.63 | 1,237 | 1.83 | 0.24 | 67.7 |
| 5/1/2015 5:51:38 | 38.06 | 36.96 | 1,234 | 1.82 | 0.24 | 67.5 |
| 5/1/2015 5:51:38 | 38.39 | 37.29 | 1,234 | 1.82 | 0.24 | 67.5 |
| 5/1/2015 5:51:38 | 38.71 | 37.61 | 1,227 | 1.81 | 0.24 | 67.1 |
| 5/1/2015 5:51:39 | 39.04 | 37.94 | 1,227 | 1.81 | 0.24 | 67.1 |
| 5/1/2015 5:51:39 | 39.37 | 38.27 | 1,234 | 1.85 | 0.24 | 67.5 |
| 5/1/2015 5:51:40 | 39.70 | 38.60 | 1,234 | 1.85 | 0.24 | 67.5 |
| 5/1/2015 5:51:40 | 40.03 | 38.93 | 1,197 | 1.41 | 0.26 | 65.5 |
| 5/1/2015 5:51:40 | 40.35 | 39.25 | 1,197 | 1.41 | 0.26 | 65.5 |
| 5/1/2015 5:51:41 | 40.68 | 39.58 | 1,145 | 1.40 | 0.25 | 62.6 |
| 5/1/2015 5:51:41 | 41.01 | 39.91 | 1,047 | 1.47 | 0.25 | 57.2 |
| 5/1/2015 5:51:42 | 41.34 | 40.24 | 1,047 | 1.47 | 0.26 | 57.2 |
| 5/1/2015 5:51:42 | 41.67 | 40.57 | 905 | 1.45 | 0.26 | 49.5 |
| 5/1/2015 5:51:43 | 41.99 | 40.89 | 623 | 1.48 | 0.26 | 34.1 |
| 5/1/2015 5:51:44 | 42.32 | 41.22 | 506 | 0.86 | 0.24 | 27.7 |
| 5/1/2015 5:51:50 | 42.65 | 41.55 | 0 | 1.10 | 0.20 | 0.0 |
| 5/1/2015 5:51:50 | 42.98 | 41.88 | 96 | 1.13 | 0.20 | 5.2 |
| 5/1/2015 5:51:51 | 43.31 | 42.21 | 96 | 1.13 | 0.20 | 5.2 |
| 5/1/2015 5:51:51 | 43.64 | 42.54 | 238 | 1.12 | 0.20 | 13.0 |
| 5/1/2015 5:51:52 | 43.96 | 42.86 | 377 | 1.12 | 0.20 | 20.6 |
| 5/1/2015 5:51:52 | 44.29 | 43.19 | 517 | 1.10 | 0.12 | 28.3 |
| 5/1/2015 5:51:53 | 44.62 | 43.52 | 517 | 1.10 | 0.20 | 28.3 |
| 5/1/2015 5:51:53 | 44.95 | 43.85 | 677 | 1.11 | 0.20 | 37.0 |
| 5/1/2015 5:51:54 | 45.28 | 44.18 | 710 | 1.10 | 0.20 | 38.8 |
| 5/1/2015 5:51:54 | 45.60 | 44.50 | 710 | 1.11 | 0.20 | 38.8 |
| 5/1/2015 5:51:55 | 45.93 | 44.83 | 719 | 1.11 | 0.20 | 39.3 |
| 5/1/2015 5:51:55 | 46.26 | 45.16 | 721 | 1.10 | 0.20 | 39.4 |
| 5/1/2015 5:51:56 | 46.59 | 45.49 | 713 | 1.13 | 0.19 | 39.0 |
| 5/1/2015 5:51:56 | 46.92 | 45.82 | 665 | 1.15 | 0.19 | 36.4 |
| 5/1/2015 5:53:05 | 47.24 | 46.14 | 41 | 1.15 | 1.13 | 2.3 |
| 5/1/2015 5:53:06 | 47.57 | 46.47 | 171 | 1.15 | 0.97 | 9.3 |
| 5/1/2015 5:53:07 | 47.90 | 46.80 | 261 | 1.19 | 1.25 | 14.3 |
| 5/1/2015 5:53:09 | 48.23 | 47.13 | 291 | 1.13 | 1.15 | 15.9 |
| 5/1/2015 5:53:10 | 48.56 | 47.46 | 259 | 1.23 | 1.08 | 14.2 |
| 5/1/2015 5:53:11 | 48.88 | 47.78 | 262 | 1.24 | 1.29 | 14.3 |
| 5/1/2015 5:53:12 | 49.21 | 48.11 | 298 | 1.24 | 1.06 | 16.3 |
| 5/1/2015 5:53:14 | 49.54 | 48.44 | 266 | 1.21 | 0.88 | 14.6 |
| 5/1/2015 5:53:16 | 49.87 | 48.77 | 211 | 1.17 | 0.84 | 11.5 |
| 5/1/2015 5:53:18 | 50.20 | 49.10 | 162 | 1.17 | 0.87 | 8.9 |
| 5/1/2015 5:53:21 | 50.53 | 49.43 | 153 | 1.18 | 0.90 | 8.4 |
| 5/1/2015 5:53:24 | 50.85 | 49.75 | 130 | 1.66 | 0.89 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:53:24 | 51.18 | 50.08 | 161 | 1.59 | 0.89 | 8.8 |
| 5/1/2015 | 5:53:25 | 51.51 | 50.41 | 333 | 1.59 | 0.90 | 18.2 |
| 5/1/2015 | 5:53:26 | 51.84 | 50.74 | 415 | 1.68 | 0.96 | 22.7 |
| 5/1/2015 | 5:53:26 | 52.17 | 51.07 | 492 | 1.63 | 0.89 | 26.9 |
| 5/1/2015 | 5:53:28 | 52.49 | 51.39 | 391 | 1.13 | 0.94 | 21.4 |
| 5/1/2015 | 5:53:40 | 52.82 | 51.72 | 79 | 1.03 | 0.93 | 4.3 |
| 5/1/2015 | 5:53:42 | 53.15 | 52.05 | 143 | 1.07 | 0.96 | 7.8 |
| 5/1/2015 | 5:53:45 | 53.48 | 52.38 | 153 | 1.14 | 0.99 | 8.4 |
| 5/1/2015 | 5:53:48 | 53.81 | 52.71 | 130 | 1.08 | 1.14 | 7.1 |
| 5/1/2015 | 5:53:51 | 54.13 | 53.03 | 105 | 1.17 | 1.45 | 5.7 |
| 5/1/2015 | 5:54:16 | 54.46 | 53.36 | 69 | 1.11 | 0.93 | 3.8 |
| 5/1/2015 | 5:54:19 | 54.79 | 53.69 | 135 | 1.15 | 0.96 | 7.4 |
| 5/1/2015 | 5:54:21 | 55.12 | 54.02 | 142 | 1.13 | 0.94 | 7.7 |
| 5/1/2015 | 5:54:23 | 55.45 | 54.35 | 159 | 1.07 | 0.81 | 8.7 |
| 5/1/2015 | 5:54:25 | 55.77 | 54.67 | 187 | 1.09 | 0.89 | 10.2 |
| 5/1/2015 | 5:54:27 | 56.10 | 55.00 | 173 | 1.14 | 0.86 | 9.5 |
| 5/1/2015 | 5:54:28 | 56.24 | 55.14 | 153 | 1.10 | 0.93 | 8.4 |

## L127 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:49:30

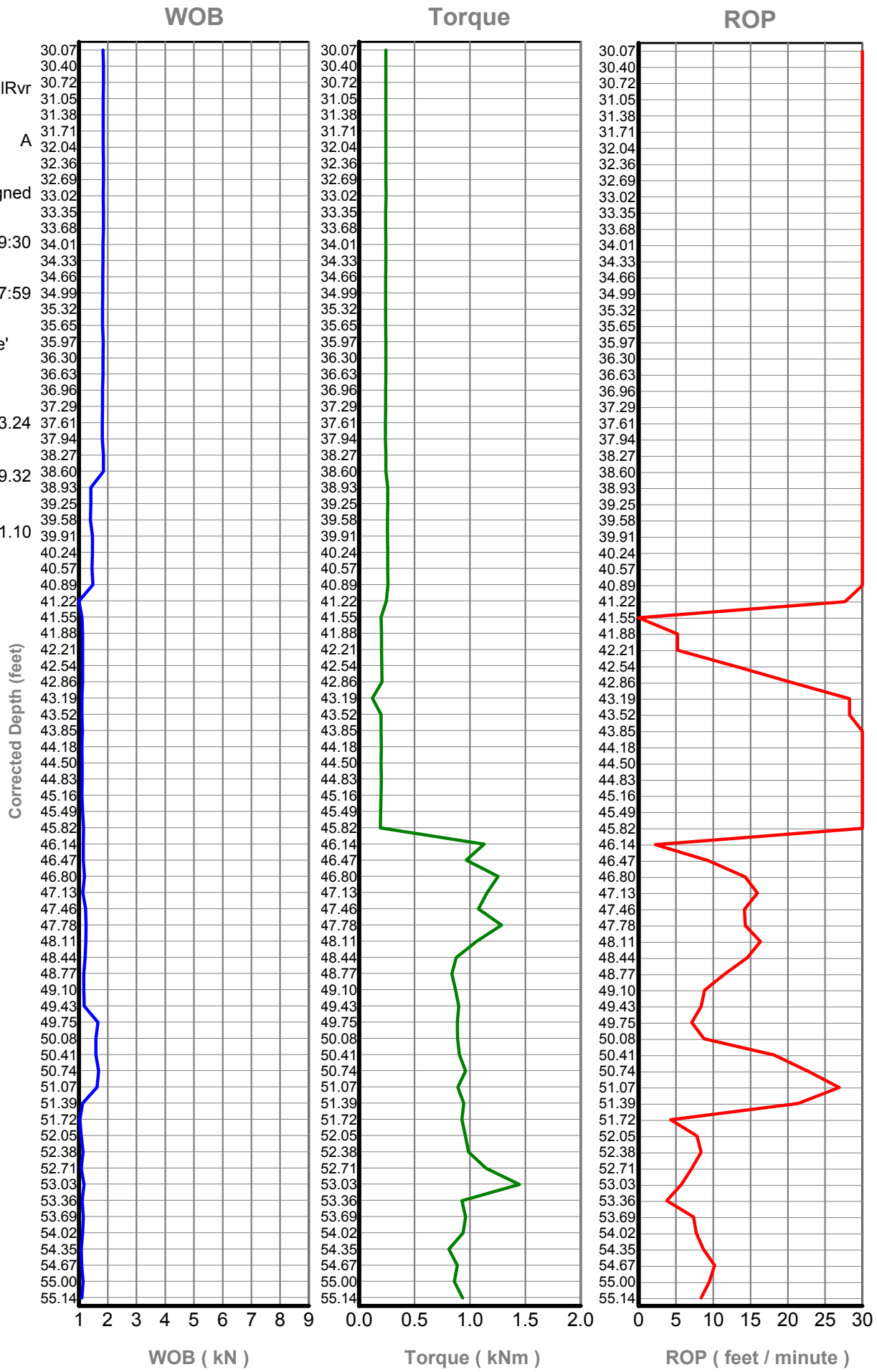
**End Date:**
5/1/2015 5:57:59

**Operator Note:**
'1.1 1.2 a Auto Complete'

**Northing:**
359,743.24

**Easting:**
242,299.32

**Tide (feet):**
1.10



## Hole: L128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:52:02 | 31.17 | 30.07 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 5:52:02 | 31.50 | 30.40 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 5:52:02 | 31.82 | 30.72 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 5:52:03 | 32.15 | 31.05 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 5:52:03 | 32.48 | 31.38 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/1/2015 5:52:04 | 32.81 | 31.71 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 5:52:04 | 33.14 | 32.04 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 5:52:04 | 33.46 | 32.36 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 5:52:04 | 33.79 | 32.69 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 5:52:05 | 34.12 | 33.02 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 5:52:05 | 34.45 | 33.35 | 1,108 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 5:52:06 | 34.78 | 33.68 | 1,108 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 5:52:06 | 35.11 | 34.01 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 5:52:06 | 35.43 | 34.33 | 1,120 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 5:52:07 | 35.76 | 34.66 | 1,120 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 5:52:07 | 36.09 | 34.99 | 1,114 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 5:52:07 | 36.42 | 35.32 | 1,114 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 5:52:07 | 36.75 | 35.65 | 1,085 | 0.33 | 0.38 | 59.3 |
| 5/1/2015 5:52:08 | 37.07 | 35.97 | 1,097 | 0.33 | 0.38 | 60.0 |
| 5/1/2015 5:52:08 | 37.40 | 36.30 | 1,097 | 0.33 | 0.38 | 60.0 |
| 5/1/2015 5:52:08 | 37.73 | 36.63 | 1,097 | 0.33 | 0.38 | 60.0 |
| 5/1/2015 5:52:09 | 38.06 | 36.96 | 1,097 | 0.33 | 0.38 | 60.0 |
| 5/1/2015 5:52:09 | 38.39 | 37.29 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 5:52:09 | 38.71 | 37.61 | 1,076 | 0.33 | 0.38 | 58.9 |
| 5/1/2015 5:52:10 | 39.04 | 37.94 | 1,076 | 0.33 | 0.38 | 58.9 |
| 5/1/2015 5:52:10 | 39.37 | 38.27 | 1,076 | 0.33 | 0.38 | 58.9 |
| 5/1/2015 5:52:10 | 39.70 | 38.60 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 5:52:11 | 40.03 | 38.93 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 5:52:11 | 40.35 | 39.25 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:11 | 40.68 | 39.58 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:11 | 41.01 | 39.91 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/1/2015 5:52:12 | 41.34 | 40.24 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/1/2015 5:52:12 | 41.67 | 40.57 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/1/2015 5:52:12 | 41.99 | 40.89 | 1,132 | 0.32 | 0.39 | 61.9 |
| 5/1/2015 5:52:13 | 42.32 | 41.22 | 1,132 | 0.32 | 0.39 | 61.9 |
| 5/1/2015 5:52:13 | 42.65 | 41.55 | 1,116 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 5:52:14 | 42.98 | 41.88 | 1,122 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 5:52:14 | 43.31 | 42.21 | 1,122 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 5:52:14 | 43.64 | 42.54 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 5:52:15 | 43.96 | 42.86 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:15 | 44.29 | 43.19 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:15 | 44.62 | 43.52 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:16 | 44.95 | 43.85 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:16 | 45.28 | 44.18 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:16 | 45.60 | 44.50 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:17 | 45.93 | 44.83 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 5:52:17 | 46.26 | 45.16 | 1,131 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 5:52:17 | 46.59 | 45.49 | 1,131 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 5:52:22 | 46.92 | 45.82 | 0 | 3.07 | 0.40 | 0.0 |
| 5/1/2015 5:52:25 | 47.24 | 46.14 | 94 | 5.37 | 0.44 | 5.2 |
| 5/1/2015 5:52:29 | 47.57 | 46.47 | 0 | 3.92 | 0.44 | 0.0 |
| 5/1/2015 5:52:29 | 47.90 | 46.80 | 79 | 6.26 | 0.46 | 4.3 |
| 5/1/2015 5:52:30 | 48.23 | 47.13 | 163 | 3.95 | 0.42 | 8.9 |
| 5/1/2015 5:52:30 | 48.56 | 47.46 | 287 | 2.97 | 0.41 | 15.7 |
| 5/1/2015 5:52:31 | 48.88 | 47.78 | 545 | 2.84 | 0.42 | 29.8 |
| 5/1/2015 5:52:32 | 49.21 | 48.11 | 597 | 2.84 | 0.42 | 32.6 |
| 5/1/2015 5:52:32 | 49.54 | 48.44 | 636 | 3.07 | 0.50 | 34.8 |
| 5/1/2015 5:52:33 | 49.87 | 48.77 | 529 | 3.58 | 0.46 | 28.9 |
| 5/1/2015 5:52:35 | 50.20 | 49.10 | 410 | 3.10 | 0.43 | 22.4 |
| 5/1/2015 5:52:35 | 50.53 | 49.43 | 404 | 3.12 | 0.44 | 22.1 |
| 5/1/2015 5:52:36 | 50.85 | 49.75 | 402 | 3.03 | 0.43 | 22.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:52:37 | 51.18 | 50.08 | 494 | 3.08 | 0.44 | 27.0 |
| 5/1/2015 | 5:52:38 | 51.51 | 50.41 | 353 | 3.51 | 0.46 | 19.3 |
| 5/1/2015 | 5:52:40 | 51.84 | 50.74 | 221 | 3.58 | 0.46 | 12.1 |
| 5/1/2015 | 5:52:42 | 52.17 | 51.07 | 139 | 3.69 | 0.46 | 7.6 |
| 5/1/2015 | 5:52:59 | 52.49 | 51.39 | 0 | 2.60 | 0.42 | 0.0 |
| 5/1/2015 | 5:53:02 | 52.82 | 51.72 | 122 | 3.28 | 0.46 | 6.7 |
| 5/1/2015 | 5:53:06 | 53.15 | 52.05 | 95 | 3.32 | 0.47 | 5.2 |
| 5/1/2015 | 5:53:12 | 53.48 | 52.38 | 23 | 3.05 | 0.43 | 1.3 |
| 5/1/2015 | 5:53:14 | 53.81 | 52.71 | 155 | 2.87 | 0.44 | 8.5 |
| 5/1/2015 | 5:53:15 | 54.13 | 53.03 | 180 | 2.74 | 0.44 | 9.8 |
| 5/1/2015 | 5:53:17 | 54.46 | 53.36 | 304 | 2.90 | 0.44 | 16.6 |
| 5/1/2015 | 5:53:20 | 54.79 | 53.69 | 92 | 2.84 | 0.44 | 5.0 |
| 5/1/2015 | 5:53:21 | 55.12 | 54.02 | 223 | 3.19 | 0.45 | 12.2 |
| 5/1/2015 | 5:53:24 | 55.45 | 54.35 | 200 | 3.20 | 0.43 | 10.9 |
| 5/1/2015 | 5:53:25 | 55.77 | 54.67 | 191 | 2.88 | 0.44 | 10.4 |
| 5/1/2015 | 5:53:27 | 56.10 | 55.00 | 185 | 3.08 | 0.45 | 10.1 |
| 5/1/2015 | 5:53:28 | 56.27 | 55.17 | 227 | 3.44 | 0.46 | 12.4 |

## L128 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:50:27

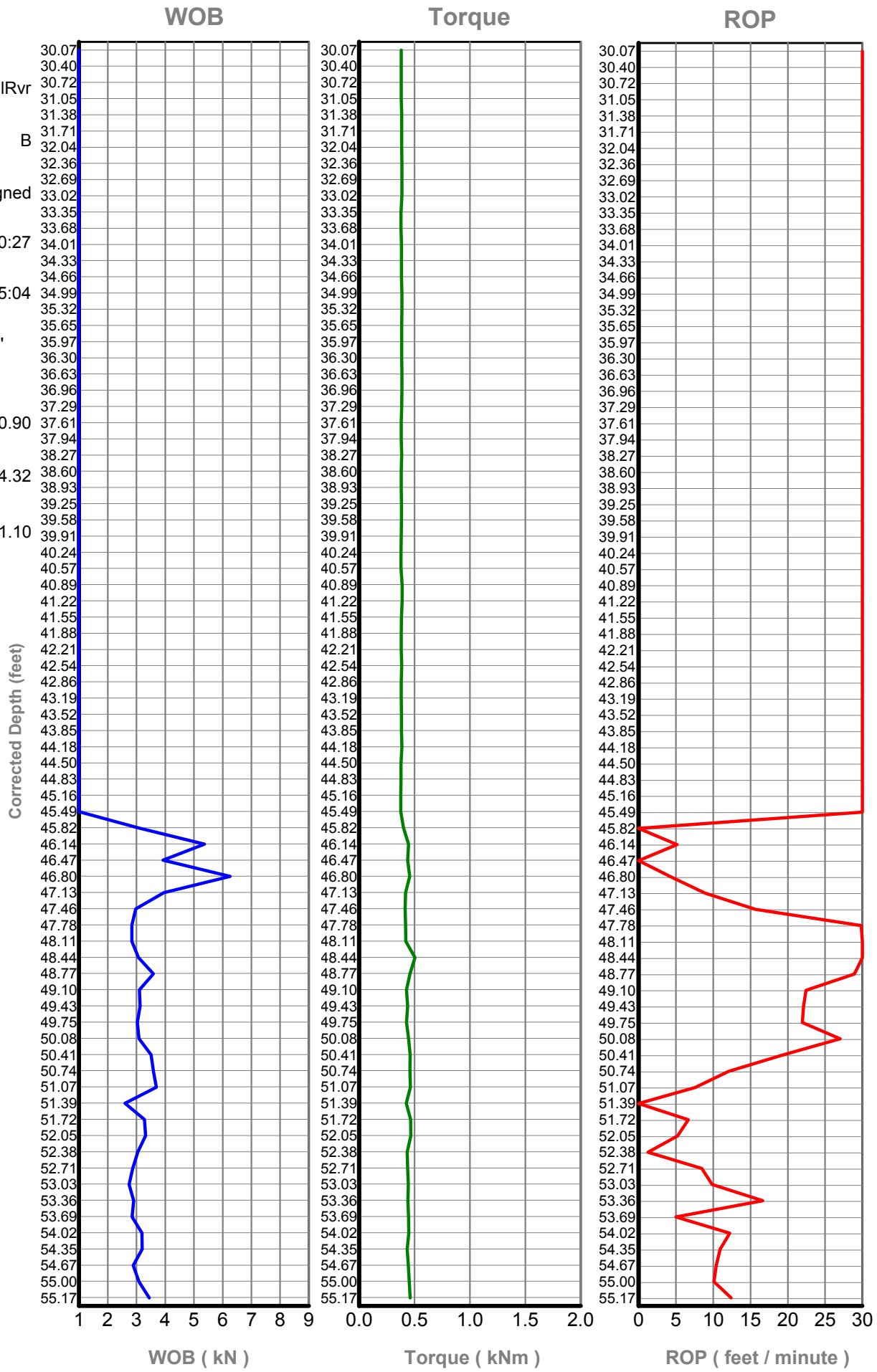
**End Date:**
5/1/2015 5:55:04

**Operator Note:**
'1.1 1.2b Auto Complete'

**Northing:**
359,780.90

**Easting:**
242,364.32

**Tide (feet):**
1.10



## Hole: L129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:50:25 | 31.17 | 30.07 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 5:50:26 | 31.50 | 30.40 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 5:50:26 | 31.82 | 30.72 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 5:50:26 | 32.15 | 31.05 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 5:50:27 | 32.48 | 31.38 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 5:50:27 | 32.81 | 31.71 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 5:50:27 | 33.14 | 32.04 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 5:50:28 | 33.46 | 32.36 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 5:50:28 | 33.79 | 32.69 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 5:50:28 | 34.12 | 33.02 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:29 | 34.45 | 33.35 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:29 | 34.78 | 33.68 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 5:50:30 | 35.11 | 34.01 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 5:50:30 | 35.43 | 34.33 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 5:50:30 | 35.76 | 34.66 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 5:50:30 | 36.09 | 34.99 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 5:50:31 | 36.42 | 35.32 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 5:50:31 | 36.75 | 35.65 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 5:50:32 | 37.07 | 35.97 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 5:50:32 | 37.40 | 36.30 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 5:50:32 | 37.73 | 36.63 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 5:50:33 | 38.06 | 36.96 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 5:50:33 | 38.39 | 37.29 | 1,069 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 5:50:33 | 38.71 | 37.61 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 5:50:34 | 39.04 | 37.94 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 5:50:34 | 39.37 | 38.27 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 5:50:34 | 39.70 | 38.60 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 5:50:35 | 40.03 | 38.93 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 5:50:35 | 40.35 | 39.25 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 5:50:35 | 40.68 | 39.58 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 5:50:35 | 41.01 | 39.91 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:36 | 41.34 | 40.24 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 5:50:36 | 41.67 | 40.57 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 5:50:36 | 41.99 | 40.89 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:37 | 42.32 | 41.22 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:37 | 42.65 | 41.55 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:37 | 42.98 | 41.88 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:38 | 43.31 | 42.21 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:38 | 43.64 | 42.54 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:38 | 43.96 | 42.86 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 5:50:39 | 44.29 | 43.19 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:39 | 44.62 | 43.52 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 5:50:39 | 44.95 | 43.85 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 5:50:40 | 45.28 | 44.18 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 5:50:40 | 45.60 | 44.50 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 5:50:40 | 45.93 | 44.83 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 5:50:41 | 46.26 | 45.16 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 5:50:41 | 46.59 | 45.49 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 5:50:41 | 46.92 | 45.82 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 5:50:59 | 47.24 | 46.14 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 5:51:00 | 47.57 | 46.47 | 124 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 5:51:00 | 47.90 | 46.80 | 221 | 1.14 | 0.29 | 12.1 |
| 5/1/2015 5:51:13 | 48.23 | 47.13 | 32 | 1.14 | 0.29 | 1.8 |
| 5/1/2015 5:51:28 | 48.56 | 47.46 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 5:51:42 | 48.88 | 47.78 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 5:51:54 | 49.21 | 48.11 | 35 | 1.14 | 0.29 | 1.9 |

## L129 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:49:20

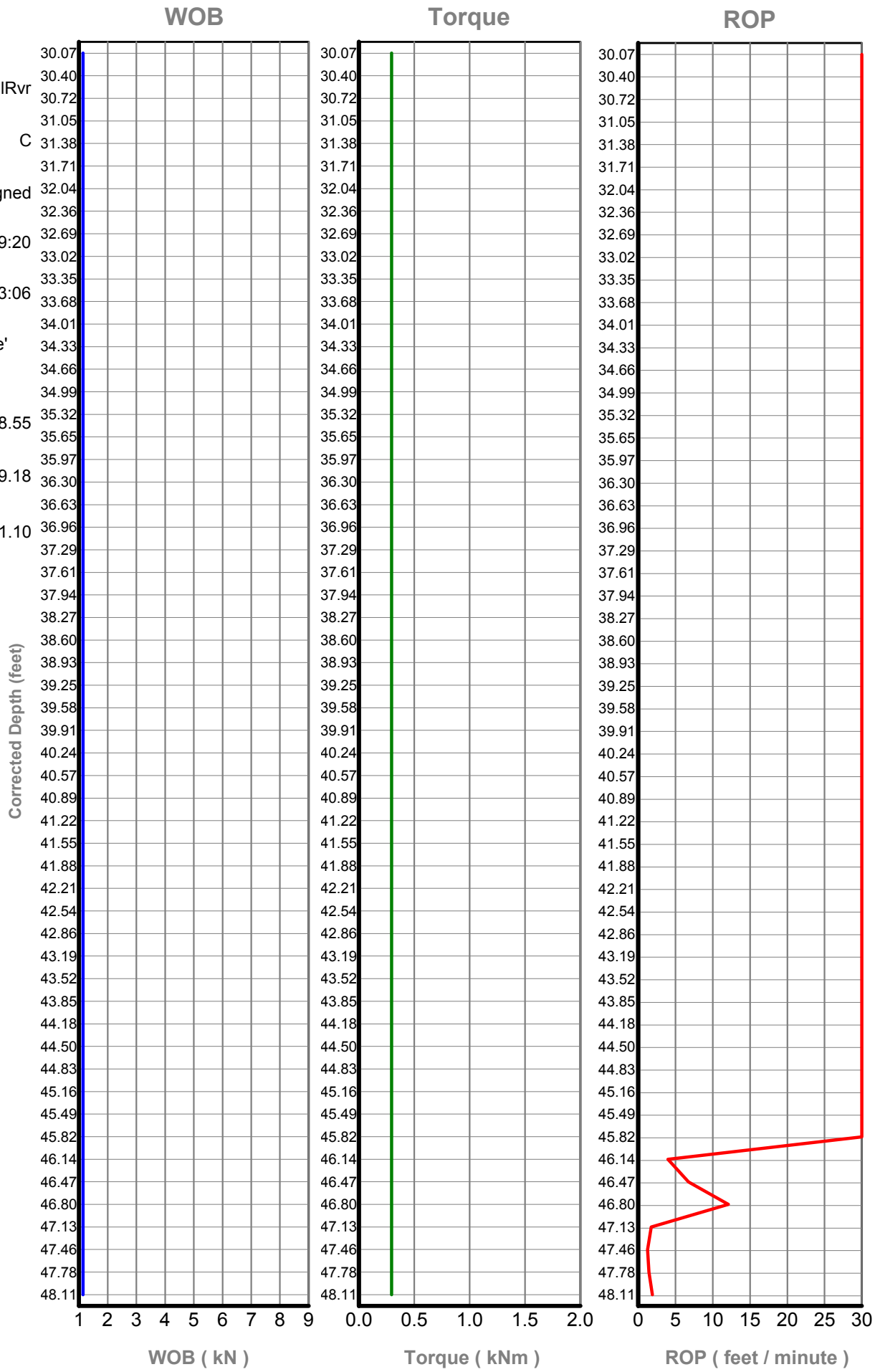
**End Date:**
5/1/2015 5:53:06

**Operator Note:**
'1.1 1.2 c Auto Complete'

**Northing:**
359,818.55

**Easting:**
242,429.18

**Tide (feet):**
1.10



## Hole: L13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:45:03 | 35.11 | 30.01 | 880 | 1.18 | 0.16 | 48.1 |
| 5/1/2015 13:45:03 | 35.43 | 30.33 | 883 | 1.18 | 0.16 | 48.3 |
| 5/1/2015 13:45:04 | 35.76 | 30.66 | 874 | 1.16 | 0.16 | 47.8 |
| 5/1/2015 13:45:04 | 36.09 | 30.99 | 874 | 1.18 | 0.16 | 47.8 |
| 5/1/2015 13:45:05 | 36.42 | 31.32 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 13:45:05 | 36.75 | 31.65 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 13:45:05 | 37.07 | 31.97 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 13:45:06 | 37.40 | 32.30 | 887 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 13:45:06 | 37.73 | 32.63 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 13:45:07 | 38.06 | 32.96 | 882 | 1.15 | 0.16 | 48.2 |
| 5/1/2015 13:45:07 | 38.39 | 33.29 | 887 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 13:45:07 | 38.71 | 33.61 | 891 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 13:45:08 | 39.04 | 33.94 | 891 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 13:45:08 | 39.37 | 34.27 | 891 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 13:45:08 | 39.70 | 34.60 | 891 | 1.16 | 0.16 | 48.7 |
| 5/1/2015 13:45:09 | 40.03 | 34.93 | 883 | 1.17 | 0.16 | 48.3 |
| 5/1/2015 13:45:09 | 40.35 | 35.25 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 13:45:10 | 40.68 | 35.58 | 888 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 13:45:11 | 41.01 | 35.91 | 888 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 13:45:11 | 41.34 | 36.24 | 885 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 13:45:11 | 41.67 | 36.57 | 880 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 13:45:12 | 41.99 | 36.89 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 13:45:12 | 42.32 | 37.22 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 13:45:12 | 42.65 | 37.55 | 882 | 1.17 | 0.17 | 48.2 |
| 5/1/2015 13:45:13 | 42.98 | 37.88 | 885 | 1.15 | 0.16 | 48.4 |
| 5/1/2015 13:45:13 | 43.31 | 38.21 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 13:45:14 | 43.64 | 38.54 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 13:45:14 | 43.96 | 38.86 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 13:45:15 | 44.29 | 39.19 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 13:45:15 | 44.62 | 39.52 | 882 | 1.18 | 0.16 | 48.2 |
| 5/1/2015 13:45:15 | 44.95 | 39.85 | 879 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 13:45:16 | 45.28 | 40.18 | 879 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 13:45:16 | 45.60 | 40.50 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 13:45:16 | 45.93 | 40.83 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 13:45:17 | 46.26 | 41.16 | 881 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 13:45:17 | 46.59 | 41.49 | 879 | 1.19 | 0.16 | 48.1 |
| 5/1/2015 13:45:18 | 46.92 | 41.82 | 879 | 1.19 | 0.16 | 48.1 |
| 5/1/2015 13:45:18 | 47.24 | 42.14 | 882 | 1.18 | 0.16 | 48.2 |
| 5/1/2015 13:45:18 | 47.57 | 42.47 | 879 | 1.19 | 0.16 | 48.1 |
| 5/1/2015 13:45:19 | 47.90 | 42.80 | 876 | 1.18 | 0.16 | 47.9 |
| 5/1/2015 13:45:19 | 48.23 | 43.13 | 876 | 1.18 | 0.16 | 47.9 |
| 5/1/2015 13:45:19 | 48.56 | 43.46 | 873 | 1.19 | 0.16 | 47.8 |
| 5/1/2015 13:45:20 | 48.88 | 43.78 | 879 | 1.18 | 0.16 | 48.1 |
| 5/1/2015 13:45:21 | 49.21 | 44.11 | 879 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 13:45:21 | 49.54 | 44.44 | 876 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 13:45:22 | 49.87 | 44.77 | 876 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 13:45:22 | 50.20 | 45.10 | 879 | 1.18 | 0.16 | 48.1 |
| 5/1/2015 13:45:22 | 50.53 | 45.43 | 879 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 13:45:23 | 50.85 | 45.75 | 879 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 13:45:23 | 51.18 | 46.08 | 879 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 13:45:23 | 51.51 | 46.41 | 876 | 1.19 | 0.16 | 47.9 |
| 5/1/2015 13:45:24 | 51.84 | 46.74 | 857 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 13:45:24 | 52.17 | 47.07 | 857 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 13:45:25 | 52.49 | 47.39 | 853 | 1.19 | 0.16 | 46.6 |
| 5/1/2015 13:45:25 | 52.82 | 47.72 | 853 | 1.19 | 0.16 | 46.6 |
| 5/1/2015 13:45:25 | 53.15 | 48.05 | 861 | 1.18 | 0.16 | 47.1 |
| 5/1/2015 13:45:26 | 53.48 | 48.38 | 858 | 1.25 | 0.16 | 46.9 |
| 5/1/2015 13:45:26 | 53.81 | 48.71 | 858 | 1.21 | 0.16 | 46.9 |
| 5/1/2015 13:45:27 | 54.13 | 49.03 | 845 | 1.30 | 0.16 | 46.2 |
| 5/1/2015 13:45:27 | 54.46 | 49.36 | 845 | 0.17 | 0.10 | 46.2 |
| 5/1/2015 13:45:40 | 54.79 | 49.69 | 71 | 1.17 | 0.83 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:45:41 | 55.12 | 50.02 | 256 | 1.18 | 0.93 | 14.0 |
| 5/1/2015 | 13:45:42 | 55.45 | 50.35 | 339 | 1.15 | 1.16 | 18.5 |
| 5/1/2015 | 13:45:43 | 55.77 | 50.67 | 402 | 1.19 | 1.00 | 22.0 |
| 5/1/2015 | 13:45:44 | 56.10 | 51.00 | 375 | 1.16 | 0.90 | 20.5 |
| 5/1/2015 | 13:45:45 | 56.43 | 51.33 | 368 | 1.17 | 0.88 | 20.1 |
| 5/1/2015 | 13:45:45 | 56.76 | 51.66 | 403 | 1.17 | 0.89 | 22.0 |
| 5/1/2015 | 13:45:47 | 57.09 | 51.99 | 355 | 1.17 | 1.53 | 19.4 |
| 5/1/2015 | 13:45:50 | 57.41 | 52.31 | 110 | 1.17 | 1.25 | 6.0 |
| 5/1/2015 | 13:45:53 | 57.74 | 52.64 | 103 | 1.19 | 1.31 | 5.7 |
| 5/1/2015 | 13:45:58 | 58.07 | 52.97 | 109 | 1.12 | 1.41 | 6.0 |
| 5/1/2015 | 13:46:00 | 58.40 | 53.30 | 139 | 1.15 | 1.24 | 7.6 |
| 5/1/2015 | 13:46:03 | 58.73 | 53.63 | 161 | 1.17 | 1.24 | 8.8 |
| 5/1/2015 | 13:46:07 | 59.06 | 53.96 | 92 | 1.20 | 1.38 | 5.0 |
| 5/1/2015 | 13:46:13 | 59.38 | 54.28 | 81 | 1.06 | 1.14 | 4.4 |
| 5/1/2015 | 13:46:16 | 59.71 | 54.61 | 109 | 1.15 | 1.18 | 6.0 |
| 5/1/2015 | 13:46:19 | 60.04 | 54.94 | 92 | 1.05 | 1.26 | 5.0 |
| 5/1/2015 | 13:46:23 | 60.21 | 55.11 | 51 | 0.60 | 1.06 | 2.8 |

## L13 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:43:26

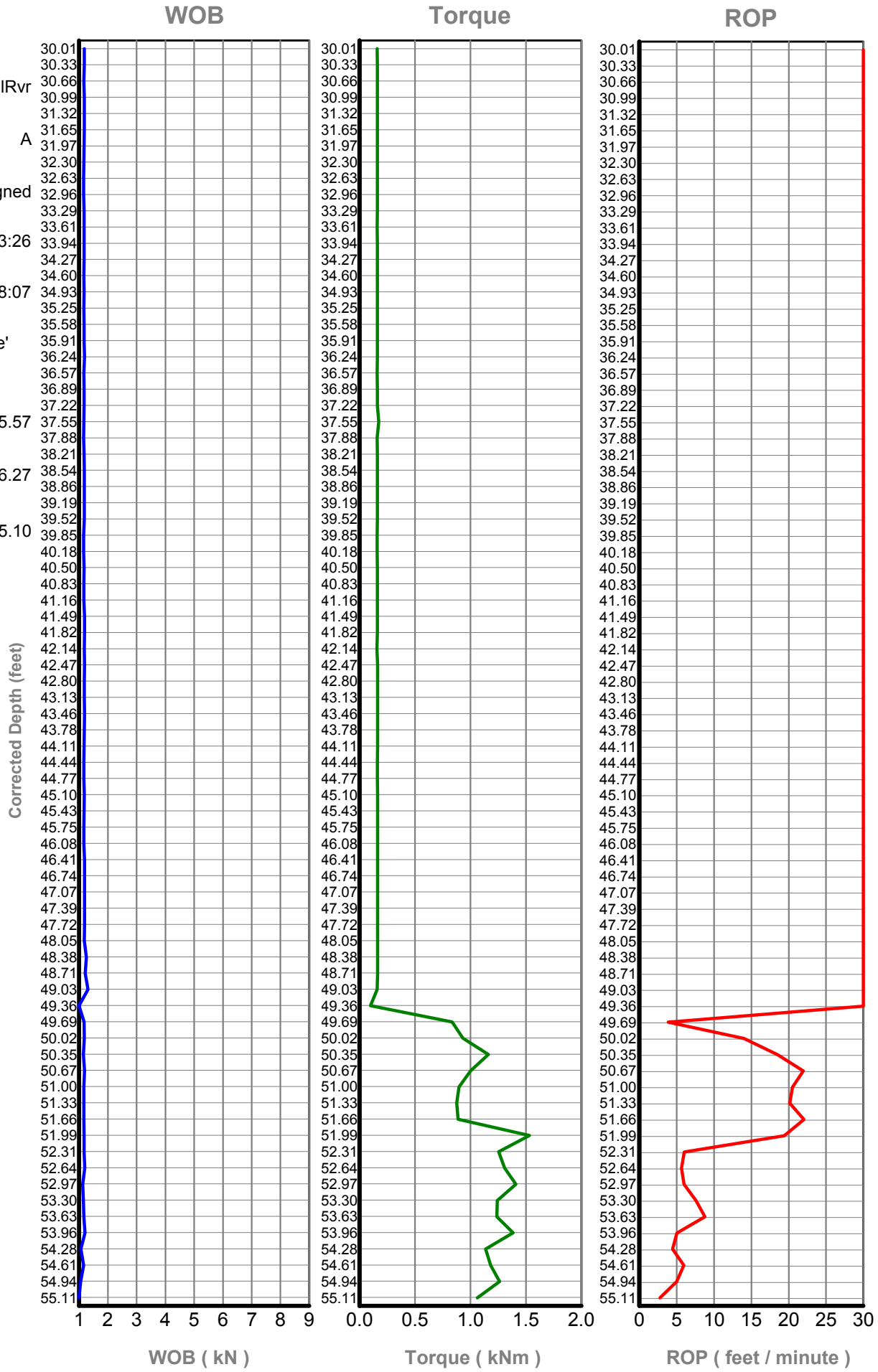
**End Date:**
5/1/2015 13:48:07

**Operator Note:**
'5.1 5.2 a Auto Complete'

**Northing:**
359,935.57

**Easting:**
241,906.27

**Tide (feet):**
5.10



## Hole: L130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:09:34 | 32.48 | 30.08 | 1,194 | 1.80 | 0.24 | 65.3 |
| 5/1/2015 4:09:34 | 32.81 | 30.41 | 1,194 | 1.80 | 0.24 | 65.3 |
| 5/1/2015 4:09:34 | 33.14 | 30.74 | 1,213 | 1.78 | 0.24 | 66.3 |
| 5/1/2015 4:09:35 | 33.46 | 31.06 | 1,203 | 1.78 | 0.24 | 65.8 |
| 5/1/2015 4:09:35 | 33.79 | 31.39 | 1,203 | 1.78 | 0.24 | 65.8 |
| 5/1/2015 4:09:35 | 34.12 | 31.72 | 1,205 | 1.77 | 0.24 | 65.9 |
| 5/1/2015 4:09:36 | 34.45 | 32.05 | 1,205 | 1.77 | 0.24 | 65.9 |
| 5/1/2015 4:09:36 | 34.78 | 32.38 | 1,216 | 1.79 | 0.24 | 66.5 |
| 5/1/2015 4:09:37 | 35.11 | 32.71 | 1,216 | 1.79 | 0.24 | 66.5 |
| 5/1/2015 4:09:36 | 35.43 | 33.03 | 1,175 | 1.78 | 0.24 | 64.3 |
| 5/1/2015 4:09:37 | 35.76 | 33.36 | 1,175 | 1.80 | 0.24 | 64.3 |
| 5/1/2015 4:09:37 | 36.09 | 33.69 | 1,175 | 1.80 | 0.24 | 64.3 |
| 5/1/2015 4:09:37 | 36.42 | 34.02 | 1,197 | 1.81 | 0.24 | 65.4 |
| 5/1/2015 4:09:38 | 36.75 | 34.35 | 1,197 | 1.81 | 0.24 | 65.4 |
| 5/1/2015 4:09:38 | 37.07 | 34.67 | 1,192 | 1.77 | 0.24 | 65.2 |
| 5/1/2015 4:09:39 | 37.40 | 35.00 | 1,192 | 1.77 | 0.24 | 65.2 |
| 5/1/2015 4:09:39 | 37.73 | 35.33 | 1,189 | 1.82 | 0.24 | 65.0 |
| 5/1/2015 4:09:39 | 38.06 | 35.66 | 1,186 | 1.80 | 0.24 | 64.8 |
| 5/1/2015 4:09:40 | 38.39 | 35.99 | 1,186 | 1.80 | 0.24 | 64.8 |
| 5/1/2015 4:09:40 | 38.71 | 36.31 | 1,217 | 1.78 | 0.24 | 66.5 |
| 5/1/2015 4:09:40 | 39.04 | 36.64 | 1,217 | 1.78 | 0.24 | 66.5 |
| 5/1/2015 4:09:40 | 39.37 | 36.97 | 1,205 | 1.79 | 0.24 | 65.9 |
| 5/1/2015 4:09:41 | 39.70 | 37.30 | 1,205 | 1.79 | 0.24 | 65.9 |
| 5/1/2015 4:09:41 | 40.03 | 37.63 | 1,203 | 1.78 | 0.24 | 65.8 |
| 5/1/2015 4:09:41 | 40.35 | 37.95 | 1,210 | 1.78 | 0.24 | 66.2 |
| 5/1/2015 4:09:42 | 40.68 | 38.28 | 1,210 | 1.78 | 0.24 | 66.2 |
| 5/1/2015 4:09:42 | 41.01 | 38.61 | 1,203 | 1.83 | 0.24 | 65.8 |
| 5/1/2015 4:09:42 | 41.34 | 38.94 | 1,203 | 1.83 | 0.24 | 65.8 |
| 5/1/2015 4:09:42 | 41.67 | 39.27 | 1,203 | 1.79 | 0.24 | 65.8 |
| 5/1/2015 4:09:43 | 41.99 | 39.59 | 1,203 | 1.79 | 0.24 | 65.8 |
| 5/1/2015 4:09:43 | 42.32 | 39.92 | 1,197 | 1.80 | 0.24 | 65.4 |
| 5/1/2015 4:09:43 | 42.65 | 40.25 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 4:09:44 | 42.98 | 40.58 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 4:09:44 | 43.31 | 40.91 | 1,187 | 1.76 | 0.24 | 64.9 |
| 5/1/2015 4:09:44 | 43.64 | 41.24 | 1,187 | 1.76 | 0.24 | 64.9 |
| 5/1/2015 4:09:44 | 43.96 | 41.56 | 1,197 | 1.76 | 0.25 | 65.4 |
| 5/1/2015 4:09:45 | 44.29 | 41.89 | 1,197 | 1.76 | 0.25 | 65.4 |
| 5/1/2015 4:09:45 | 44.62 | 42.22 | 1,194 | 1.79 | 0.24 | 65.3 |
| 5/1/2015 4:09:45 | 44.95 | 42.55 | 1,197 | 1.81 | 0.24 | 65.4 |
| 5/1/2015 4:09:46 | 45.28 | 42.88 | 1,197 | 1.81 | 0.24 | 65.4 |
| 5/1/2015 4:09:46 | 45.60 | 43.20 | 1,197 | 1.77 | 0.24 | 65.4 |
| 5/1/2015 4:09:46 | 45.93 | 43.53 | 1,197 | 1.77 | 0.24 | 65.4 |
| 5/1/2015 4:09:46 | 46.26 | 43.86 | 1,200 | 1.76 | 0.24 | 65.6 |
| 5/1/2015 4:09:47 | 46.59 | 44.19 | 1,200 | 1.76 | 0.24 | 65.6 |
| 5/1/2015 4:09:47 | 46.92 | 44.52 | 1,194 | 1.79 | 0.24 | 65.3 |
| 5/1/2015 4:09:47 | 47.24 | 44.84 | 1,187 | 1.78 | 0.24 | 64.9 |
| 5/1/2015 4:09:48 | 47.57 | 45.17 | 1,187 | 1.78 | 0.24 | 64.9 |
| 5/1/2015 4:09:48 | 47.90 | 45.50 | 1,184 | 2.04 | 0.24 | 64.7 |
| 5/1/2015 4:10:06 | 48.23 | 45.83 | 24 | 1.17 | 1.05 | 1.3 |
| 5/1/2015 4:10:08 | 48.56 | 46.16 | 142 | 1.09 | 1.74 | 7.8 |
| 5/1/2015 4:10:11 | 48.88 | 46.48 | 162 | 1.17 | 1.32 | 8.9 |
| 5/1/2015 4:10:18 | 49.21 | 46.81 | 40 | 1.15 | 1.02 | 2.2 |
| 5/1/2015 4:10:28 | 49.54 | 47.14 | 29 | 1.05 | 0.92 | 1.6 |
| 5/1/2015 4:10:38 | 49.87 | 47.47 | 37 | 1.01 | 0.98 | 2.0 |
| 5/1/2015 4:10:46 | 50.18 | 47.78 | 44 | 1.10 | 0.93 | 2.4 |

## L130 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:06:31

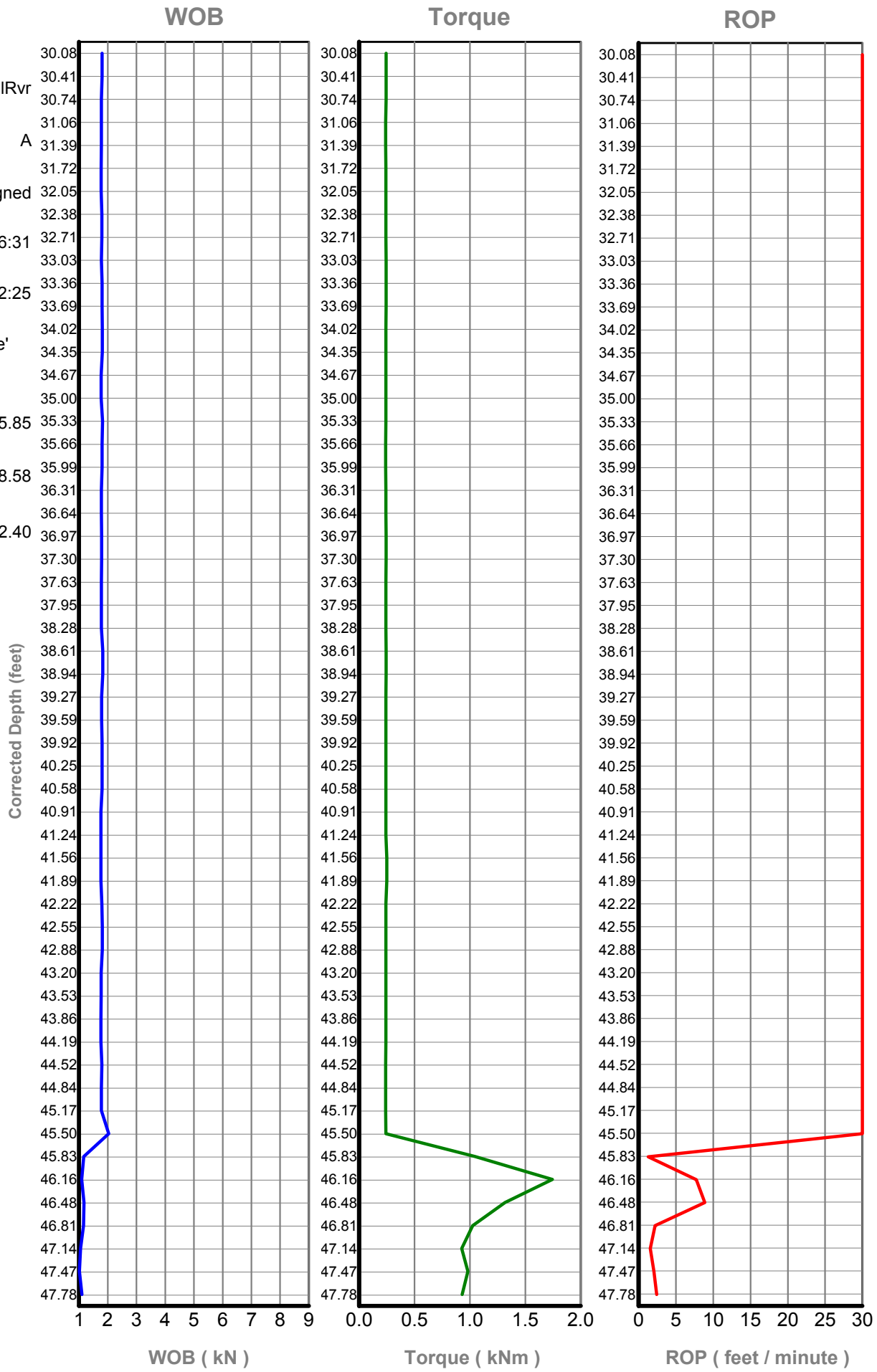
**End Date:**
5/1/2015 4:12:25

**Operator Note:**
'2.4 2.6 a Auto Complete'

**Northing:**
359,855.85

**Easting:**
242,488.58

**Tide (feet):**
2.40



## Hole: L131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:09:16 | 32.48 | 30.08 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 4:09:17 | 32.81 | 30.41 | 1,127 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 4:09:17 | 33.14 | 30.74 | 1,127 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 4:09:17 | 33.46 | 31.06 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:09:18 | 33.79 | 31.39 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:09:18 | 34.12 | 31.72 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 4:09:19 | 34.45 | 32.05 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 4:09:19 | 34.78 | 32.38 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 4:09:19 | 35.11 | 32.71 | 1,133 | 0.33 | 0.35 | 62.0 |
| 5/1/2015 4:09:20 | 35.43 | 33.03 | 1,133 | 0.33 | 0.35 | 62.0 |
| 5/1/2015 4:09:20 | 35.76 | 33.36 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 4:09:20 | 36.09 | 33.69 | 1,133 | 0.31 | 0.39 | 62.0 |
| 5/1/2015 4:09:21 | 36.42 | 34.02 | 1,133 | 0.31 | 0.39 | 62.0 |
| 5/1/2015 4:09:21 | 36.75 | 34.35 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:09:21 | 37.07 | 34.67 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 4:09:22 | 37.40 | 35.00 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 4:09:22 | 37.73 | 35.33 | 1,108 | 0.32 | 0.38 | 60.6 |
| 5/1/2015 4:09:22 | 38.06 | 35.66 | 1,108 | 0.32 | 0.38 | 60.6 |
| 5/1/2015 4:09:22 | 38.39 | 35.99 | 1,108 | 0.32 | 0.38 | 60.6 |
| 5/1/2015 4:09:23 | 38.71 | 36.31 | 1,107 | 0.32 | 0.38 | 60.5 |
| 5/1/2015 4:09:23 | 39.04 | 36.64 | 1,107 | 0.32 | 0.38 | 60.5 |
| 5/1/2015 4:09:23 | 39.37 | 36.97 | 1,110 | 0.32 | 0.37 | 60.7 |
| 5/1/2015 4:09:24 | 39.70 | 37.30 | 1,110 | 0.32 | 0.37 | 60.7 |
| 5/1/2015 4:09:24 | 40.03 | 37.63 | 1,110 | 0.32 | 0.38 | 60.7 |
| 5/1/2015 4:09:24 | 40.35 | 37.95 | 1,117 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 4:09:25 | 40.68 | 38.28 | 1,117 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 4:09:25 | 41.01 | 38.61 | 1,117 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 4:09:25 | 41.34 | 38.94 | 1,117 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 4:09:25 | 41.67 | 39.27 | 1,117 | 0.32 | 0.39 | 61.1 |
| 5/1/2015 4:09:26 | 41.99 | 39.59 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 4:09:26 | 42.32 | 39.92 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 4:09:26 | 42.65 | 40.25 | 1,132 | 0.32 | 0.37 | 61.9 |
| 5/1/2015 4:09:27 | 42.98 | 40.58 | 1,132 | 0.32 | 0.37 | 61.9 |
| 5/1/2015 4:09:27 | 43.31 | 40.91 | 1,132 | 0.32 | 0.38 | 61.9 |
| 5/1/2015 4:09:27 | 43.64 | 41.24 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 4:09:28 | 43.96 | 41.56 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 4:09:28 | 44.29 | 41.89 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 4:09:28 | 44.62 | 42.22 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 4:09:29 | 44.95 | 42.55 | 1,153 | 0.33 | 0.38 | 63.1 |
| 5/1/2015 4:09:29 | 45.28 | 42.88 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:09:29 | 45.60 | 43.20 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:09:30 | 45.93 | 43.53 | 1,133 | 0.32 | 0.39 | 62.0 |
| 5/1/2015 4:09:30 | 46.26 | 43.86 | 1,133 | 0.32 | 0.39 | 62.0 |
| 5/1/2015 4:09:30 | 46.59 | 44.19 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/1/2015 4:09:31 | 46.92 | 44.52 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 4:09:31 | 47.24 | 44.84 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 4:09:31 | 47.57 | 45.17 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/1/2015 4:09:32 | 47.90 | 45.50 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/1/2015 4:09:32 | 48.23 | 45.83 | 1,120 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 4:09:32 | 48.56 | 46.16 | 1,120 | 0.24 | 0.43 | 61.3 |
| 5/1/2015 4:09:36 | 48.88 | 46.48 | 180 | 3.68 | 0.47 | 9.9 |
| 5/1/2015 4:09:45 | 49.21 | 46.81 | 94 | 3.12 | 0.41 | 5.1 |
| 5/1/2015 4:09:48 | 49.54 | 47.14 | 0 | 3.74 | 0.45 | 0.0 |
| 5/1/2015 4:09:50 | 49.87 | 47.47 | 123 | 5.63 | 0.45 | 6.7 |
| 5/1/2015 4:09:53 | 50.20 | 47.80 | 155 | 4.81 | 0.54 | 8.5 |
| 5/1/2015 4:10:10 | 50.53 | 48.13 | 22 | 4.43 | 0.48 | 1.2 |
| 5/1/2015 4:10:13 | 50.85 | 48.45 | 92 | 3.94 | 0.44 | 5.0 |
| 5/1/2015 4:10:15 | 51.18 | 48.78 | 189 | 4.29 | 0.45 | 10.3 |
| 5/1/2015 4:10:16 | 51.51 | 49.11 | 246 | 3.91 | 0.46 | 13.4 |
| 5/1/2015 4:10:19 | 51.84 | 49.44 | 153 | 3.73 | 0.47 | 8.4 |
| 5/1/2015 4:10:27 | 52.17 | 49.77 | 33 | 2.67 | 0.45 | 1.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:10:38 | 52.49 | 50.09 | 34 | 2.96 | 0.47 | 1.9 |
| 5/1/2015 | 4:10:50 | 52.82 | 50.42 | 36 | 2.76 | 0.47 | 2.0 |
| 5/1/2015 | 4:10:54 | 52.97 | 50.57 | 38 | 2.69 | 0.47 | 2.1 |

## L131 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:07:37

**End Date:**
5/1/2015 4:12:21

**Operator Note:**
'2.4 2.7b Auto Complete'

**Northing:**
359,893.92

**Easting:**
242,533.20

**Tide (feet):**
2.40



## Hole: L132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:07:27 | 32.48 | 30.08 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 4:07:27 | 32.81 | 30.41 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:28 | 33.14 | 30.74 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:28 | 33.46 | 31.06 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:29 | 33.79 | 31.39 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:29 | 34.12 | 31.72 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:29 | 34.45 | 32.05 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 4:07:30 | 34.78 | 32.38 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:30 | 35.11 | 32.71 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:30 | 35.43 | 33.03 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:07:31 | 35.76 | 33.36 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:31 | 36.09 | 33.69 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:31 | 36.42 | 34.02 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:07:32 | 36.75 | 34.35 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:32 | 37.07 | 34.67 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:32 | 37.40 | 35.00 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:33 | 37.73 | 35.33 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:07:33 | 38.06 | 35.66 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:07:33 | 38.39 | 35.99 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:34 | 38.71 | 36.31 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:34 | 39.04 | 36.64 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 4:07:34 | 39.37 | 36.97 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:35 | 39.70 | 37.30 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:35 | 40.03 | 37.63 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:35 | 40.35 | 37.95 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:36 | 40.68 | 38.28 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:36 | 41.01 | 38.61 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:07:36 | 41.34 | 38.94 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:37 | 41.67 | 39.27 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:37 | 41.99 | 39.59 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:37 | 42.32 | 39.92 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:07:38 | 42.65 | 40.25 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:07:38 | 42.98 | 40.58 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:07:38 | 43.31 | 40.91 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:07:38 | 43.64 | 41.24 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 4:07:39 | 43.96 | 41.56 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:07:40 | 44.29 | 41.89 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:07:39 | 44.62 | 42.22 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:07:40 | 44.95 | 42.55 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:07:41 | 45.28 | 42.88 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:07:41 | 45.60 | 43.20 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 4:07:41 | 45.93 | 43.53 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 4:07:42 | 46.26 | 43.86 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 4:07:42 | 46.59 | 44.19 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:42 | 46.92 | 44.52 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:43 | 47.24 | 44.84 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:07:43 | 47.57 | 45.17 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 4:07:43 | 47.90 | 45.50 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:44 | 48.23 | 45.83 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:07:52 | 48.56 | 46.16 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 4:07:58 | 48.88 | 46.48 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 4:08:02 | 49.21 | 46.81 | 110 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 4:08:07 | 49.54 | 47.14 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 4:08:12 | 49.87 | 47.47 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 4:08:17 | 50.20 | 47.80 | 84 | 1.14 | 0.29 | 4.6 |
| 5/1/2015 4:08:22 | 50.53 | 48.13 | 71 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 4:08:28 | 50.85 | 48.45 | 57 | 1.14 | 0.29 | 3.1 |
| 5/1/2015 4:08:34 | 51.18 | 48.78 | 60 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 4:08:41 | 51.51 | 49.11 | 51 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 4:08:46 | 51.83 | 49.43 | 67 | 1.14 | 0.29 | 3.7 |

## L132 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:06:25

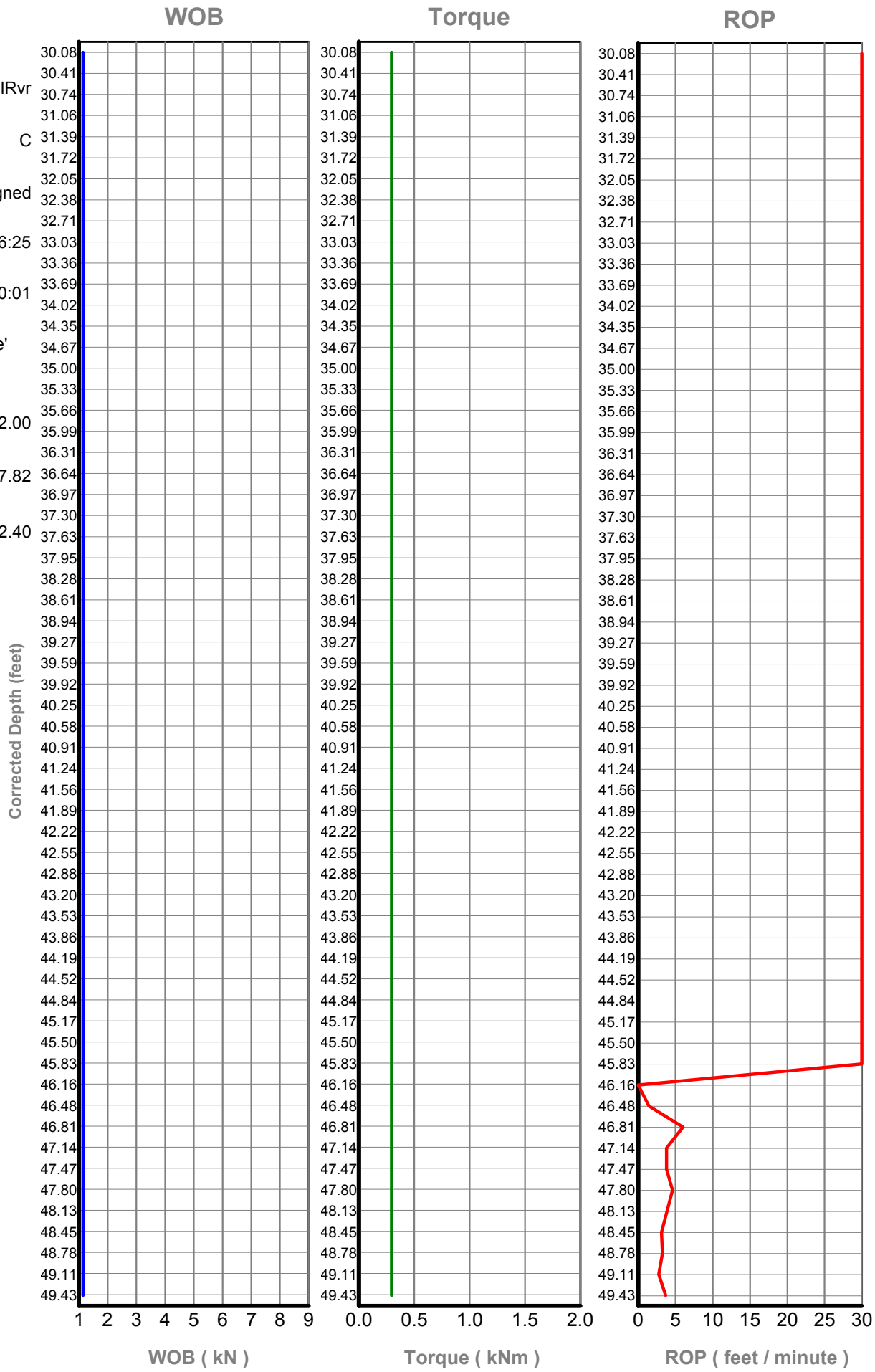
**End Date:**
5/1/2015 4:10:01

**Operator Note:**
'2.4 2.7 c Auto Complete'

**Northing:**
359,932.00

**Easting:**
242,617.82

**Tide (feet):**
2.40



## Hole: L133 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:57:41 | 35.76 | 30.06 | 756 | 1.10 | 0.20 | 41.4 |
| 5/1/2015 0:57:42 | 36.09 | 30.39 | 759 | 1.10 | 0.20 | 41.5 |
| 5/1/2015 0:57:42 | 36.42 | 30.72 | 772 | 1.11 | 0.20 | 42.2 |
| 5/1/2015 0:57:43 | 36.75 | 31.05 | 772 | 1.11 | 0.20 | 42.2 |
| 5/1/2015 0:57:43 | 37.07 | 31.37 | 767 | 1.10 | 0.20 | 42.0 |
| 5/1/2015 0:57:43 | 37.40 | 31.70 | 764 | 1.09 | 0.20 | 41.8 |
| 5/1/2015 0:57:44 | 37.73 | 32.03 | 754 | 1.09 | 0.20 | 41.3 |
| 5/1/2015 0:57:44 | 38.06 | 32.36 | 754 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 0:57:45 | 38.39 | 32.69 | 753 | 1.11 | 0.20 | 41.2 |
| 5/1/2015 0:57:46 | 38.71 | 33.01 | 746 | 1.10 | 0.20 | 40.8 |
| 5/1/2015 0:57:46 | 39.04 | 33.34 | 742 | 1.09 | 0.20 | 40.6 |
| 5/1/2015 0:57:47 | 39.37 | 33.67 | 745 | 1.07 | 0.20 | 40.7 |
| 5/1/2015 0:57:47 | 39.70 | 34.00 | 766 | 1.11 | 0.20 | 41.9 |
| 5/1/2015 0:57:48 | 40.03 | 34.33 | 743 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 0:57:48 | 40.35 | 34.65 | 743 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 0:57:48 | 40.68 | 34.98 | 756 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 0:57:49 | 41.01 | 35.31 | 748 | 1.09 | 0.20 | 40.9 |
| 5/1/2015 0:57:49 | 41.34 | 35.64 | 748 | 1.11 | 0.20 | 40.9 |
| 5/1/2015 0:57:50 | 41.67 | 35.97 | 745 | 1.12 | 0.20 | 40.8 |
| 5/1/2015 0:57:50 | 41.99 | 36.29 | 732 | 1.11 | 0.20 | 40.0 |
| 5/1/2015 0:57:51 | 42.32 | 36.62 | 744 | 1.10 | 0.20 | 40.7 |
| 5/1/2015 0:57:51 | 42.65 | 36.95 | 727 | 1.10 | 0.20 | 39.8 |
| 5/1/2015 0:57:52 | 42.98 | 37.28 | 727 | 1.10 | 0.20 | 39.8 |
| 5/1/2015 0:57:52 | 43.31 | 37.61 | 752 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 0:57:53 | 43.64 | 37.94 | 741 | 1.10 | 0.20 | 40.5 |
| 5/1/2015 0:57:53 | 43.96 | 38.26 | 737 | 1.11 | 0.20 | 40.3 |
| 5/1/2015 0:57:54 | 44.29 | 38.59 | 737 | 1.11 | 0.20 | 40.3 |
| 5/1/2015 0:57:54 | 44.62 | 38.92 | 737 | 1.09 | 0.20 | 40.3 |
| 5/1/2015 0:57:55 | 44.95 | 39.25 | 750 | 1.11 | 0.20 | 41.0 |
| 5/1/2015 0:57:55 | 45.28 | 39.58 | 738 | 1.09 | 0.20 | 40.4 |
| 5/1/2015 0:57:56 | 45.60 | 39.90 | 732 | 1.11 | 0.20 | 40.0 |
| 5/1/2015 0:57:56 | 45.93 | 40.23 | 739 | 1.11 | 0.20 | 40.4 |
| 5/1/2015 0:57:57 | 46.26 | 40.56 | 743 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 0:57:57 | 46.59 | 40.89 | 731 | 1.11 | 0.20 | 40.0 |
| 5/1/2015 0:57:58 | 46.92 | 41.22 | 731 | 1.09 | 0.20 | 40.0 |
| 5/1/2015 0:57:58 | 47.24 | 41.54 | 752 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 0:57:59 | 47.57 | 41.87 | 752 | 1.10 | 0.20 | 41.1 |
| 5/1/2015 0:57:59 | 47.90 | 42.20 | 754 | 1.11 | 0.20 | 41.2 |
| 5/1/2015 0:58:00 | 48.23 | 42.53 | 754 | 1.11 | 0.20 | 41.2 |
| 5/1/2015 0:58:00 | 48.56 | 42.86 | 741 | 1.11 | 0.20 | 40.5 |
| 5/1/2015 0:58:00 | 48.88 | 43.18 | 741 | 1.09 | 0.20 | 40.5 |
| 5/1/2015 0:58:01 | 49.21 | 43.51 | 750 | 1.09 | 0.20 | 41.0 |
| 5/1/2015 0:58:01 | 49.54 | 43.84 | 746 | 1.11 | 0.20 | 40.8 |
| 5/1/2015 0:58:02 | 49.87 | 44.17 | 744 | 1.11 | 0.20 | 40.7 |
| 5/1/2015 0:58:02 | 50.20 | 44.50 | 737 | 1.11 | 0.20 | 40.3 |
| 5/1/2015 0:58:03 | 50.53 | 44.83 | 755 | 1.12 | 0.20 | 41.3 |
| 5/1/2015 0:58:03 | 50.85 | 45.15 | 739 | 1.11 | 0.20 | 40.4 |
| 5/1/2015 0:58:04 | 51.18 | 45.48 | 730 | 1.08 | 0.20 | 39.9 |
| 5/1/2015 0:58:04 | 51.51 | 45.81 | 730 | 1.10 | 0.20 | 39.9 |
| 5/1/2015 0:58:05 | 51.84 | 46.14 | 732 | 1.11 | 0.20 | 40.0 |
| 5/1/2015 0:58:06 | 52.17 | 46.47 | 717 | 1.11 | 0.20 | 39.2 |
| 5/1/2015 0:58:06 | 52.49 | 46.79 | 717 | 1.11 | 0.20 | 39.2 |
| 5/1/2015 0:58:06 | 52.82 | 47.12 | 720 | 1.11 | 0.20 | 39.4 |
| 5/1/2015 0:58:07 | 53.15 | 47.45 | 706 | 1.17 | 0.19 | 38.6 |
| 5/1/2015 0:58:26 | 53.48 | 47.78 | 10 | 1.82 | 1.31 | 0.5 |
| 5/1/2015 0:58:26 | 53.81 | 48.11 | 136 | 1.42 | 0.95 | 7.4 |
| 5/1/2015 0:58:27 | 54.13 | 48.43 | 136 | 1.42 | 0.95 | 7.4 |
| 5/1/2015 0:58:28 | 54.46 | 48.76 | 426 | 1.15 | 1.35 | 23.3 |
| 5/1/2015 0:58:39 | 54.79 | 49.09 | 69 | 1.21 | 1.54 | 3.7 |
| 5/1/2015 0:58:43 | 55.12 | 49.42 | 80 | 1.94 | 1.06 | 4.4 |
| 5/1/2015 0:58:44 | 55.45 | 49.75 | 127 | 1.08 | 1.11 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:58:45 | 55.77 | 50.07 | 207 | 1.06 | 1.38 | 11.3 |
| 5/1/2015 | 0:58:48 | 56.10 | 50.40 | 220 | 1.09 | 1.10 | 12.0 |
| 5/1/2015 | 0:58:59 | 56.43 | 50.73 | 68 | 1.09 | 1.08 | 3.7 |
| 5/1/2015 | 0:59:03 | 56.76 | 51.06 | 86 | 1.07 | 1.18 | 4.7 |
| 5/1/2015 | 0:59:06 | 57.09 | 51.39 | 116 | 1.13 | 1.10 | 6.3 |
| 5/1/2015 | 0:59:10 | 57.41 | 51.71 | 111 | 1.06 | 1.13 | 6.1 |
| 5/1/2015 | 0:59:15 | 57.74 | 52.04 | 52 | 1.04 | 1.00 | 2.9 |
| 5/1/2015 | 0:59:22 | 58.07 | 52.37 | 60 | 1.11 | 1.07 | 3.3 |
| 5/1/2015 | 0:59:27 | 58.40 | 52.70 | 60 | 1.09 | 1.12 | 3.3 |
| 5/1/2015 | 0:59:29 | 58.73 | 53.03 | 141 | 1.11 | 0.87 | 7.7 |
| 5/1/2015 | 0:59:41 | 59.06 | 53.36 | 15 | 1.05 | 1.06 | 0.8 |
| 5/1/2015 | 0:59:48 | 59.38 | 53.68 | 47 | 1.03 | 0.92 | 2.6 |
| 5/1/2015 | 0:59:56 | 59.71 | 54.01 | 46 | 1.04 | 0.84 | 2.5 |
| 5/1/2015 | 1:00:04 | 60.04 | 54.34 | 43 | 1.02 | 1.01 | 2.3 |
| 5/1/2015 | 1:00:12 | 60.37 | 54.67 | 48 | 1.04 | 0.92 | 2.6 |
| 5/1/2015 | 1:00:13 | 60.41 | 54.71 | 49 | 1.02 | 1.04 | 2.7 |

## L133 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:55:21

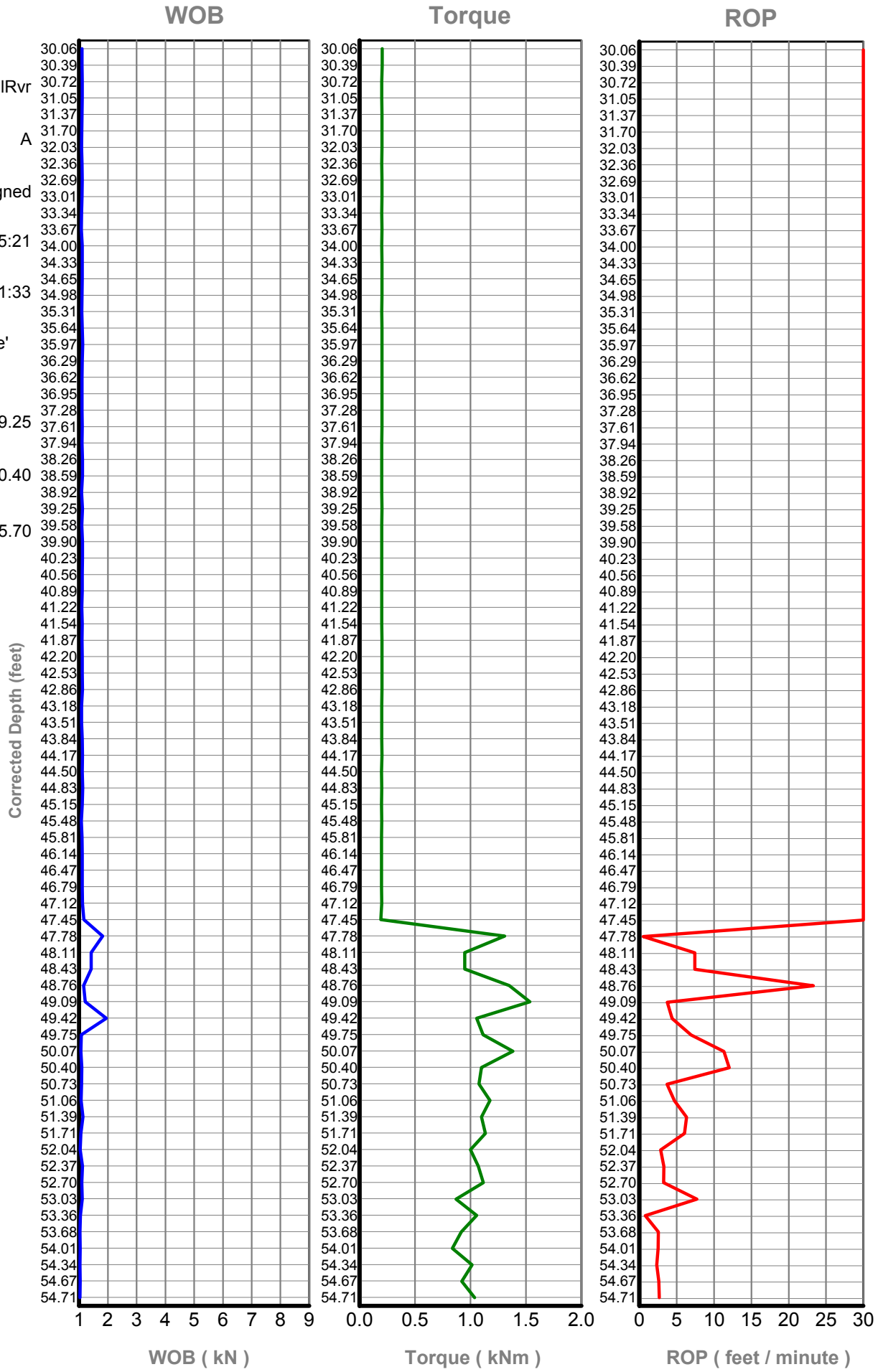
**End Date:**
5/1/2015 1:01:33

**Operator Note:**
'5.7 5.9 a Auto Complete'

**Northing:**
359,979.25

**Easting:**
242,680.40

**Tide (feet):**
5.70



## Hole: L134 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:58:25 | 35.76 | 30.06 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/1/2015 0:58:26 | 36.09 | 30.39 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 0:58:26 | 36.42 | 30.72 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 0:58:26 | 36.75 | 31.05 | 1,150 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 0:58:27 | 37.07 | 31.37 | 1,150 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 0:58:27 | 37.40 | 31.70 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 0:58:27 | 37.73 | 32.03 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 0:58:28 | 38.06 | 32.36 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 0:58:28 | 38.39 | 32.69 | 1,151 | 0.31 | 0.37 | 62.9 |
| 5/1/2015 0:58:28 | 38.71 | 33.01 | 1,151 | 0.31 | 0.37 | 62.9 |
| 5/1/2015 0:58:28 | 39.04 | 33.34 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 0:58:29 | 39.37 | 33.67 | 1,151 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 0:58:29 | 39.70 | 34.00 | 1,151 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 0:58:29 | 40.03 | 34.33 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 0:58:30 | 40.35 | 34.65 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 0:58:30 | 40.68 | 34.98 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/1/2015 0:58:30 | 41.01 | 35.31 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/1/2015 0:58:30 | 41.34 | 35.64 | 1,143 | 0.36 | 0.38 | 62.5 |
| 5/1/2015 0:58:31 | 41.67 | 35.97 | 1,157 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 0:58:31 | 41.99 | 36.29 | 1,157 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 0:58:31 | 42.32 | 36.62 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/1/2015 0:58:32 | 42.65 | 36.95 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/1/2015 0:58:32 | 42.98 | 37.28 | 1,167 | 0.30 | 0.37 | 63.8 |
| 5/1/2015 0:58:32 | 43.31 | 37.61 | 1,154 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 0:58:33 | 43.64 | 37.94 | 1,154 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 0:58:33 | 43.96 | 38.26 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 0:58:33 | 44.29 | 38.59 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 0:58:33 | 44.62 | 38.92 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/1/2015 0:58:34 | 44.95 | 39.25 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/1/2015 0:58:34 | 45.28 | 39.58 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/1/2015 0:58:34 | 45.60 | 39.90 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 0:58:35 | 45.93 | 40.23 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 0:58:35 | 46.26 | 40.56 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 0:58:36 | 46.59 | 40.89 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/1/2015 0:58:36 | 46.92 | 41.22 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/1/2015 0:58:36 | 47.24 | 41.54 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/1/2015 0:58:37 | 47.57 | 41.87 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/1/2015 0:58:37 | 47.90 | 42.20 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 0:58:37 | 48.23 | 42.53 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 0:58:37 | 48.56 | 42.86 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 0:58:38 | 48.88 | 43.18 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 0:58:38 | 49.21 | 43.51 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 0:58:38 | 49.54 | 43.84 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/1/2015 0:58:39 | 49.87 | 44.17 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/1/2015 0:58:39 | 50.20 | 44.50 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/1/2015 0:58:39 | 50.53 | 44.83 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 0:58:40 | 50.85 | 45.15 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 0:58:40 | 51.18 | 45.48 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 0:58:40 | 51.51 | 45.81 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 0:58:40 | 51.84 | 46.14 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/1/2015 0:58:41 | 52.17 | 46.47 | 1,159 | 0.30 | 0.44 | 63.4 |
| 5/1/2015 0:58:49 | 52.49 | 46.79 | 26 | 4.30 | 0.47 | 1.4 |
| 5/1/2015 0:58:52 | 52.82 | 47.12 | 55 | 3.60 | 0.47 | 3.0 |
| 5/1/2015 0:59:03 | 53.15 | 47.45 | 26 | 3.15 | 0.47 | 1.4 |
| 5/1/2015 0:59:15 | 53.48 | 47.78 | 29 | 2.95 | 0.46 | 1.6 |
| 5/1/2015 0:59:26 | 53.81 | 48.11 | 32 | 3.22 | 0.47 | 1.7 |
| 5/1/2015 0:59:30 | 53.92 | 48.22 | 32 | 3.03 | 0.45 | 1.7 |

## L134 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:56:57

**End Date:**
5/1/2015 1:01:01

**Operator Note:**
'5.7 5.9b Auto Complete'

**Northing:**
360,015.98

**Easting:**
242,745.60

**Tide (feet):**
5.70



## Hole: L135 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:57:09 | 35.76 | 30.06 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:09 | 36.09 | 30.39 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:57:10 | 36.42 | 30.72 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:57:10 | 36.75 | 31.05 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 0:57:10 | 37.07 | 31.37 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:11 | 37.40 | 31.70 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:11 | 37.73 | 32.03 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:11 | 38.06 | 32.36 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:12 | 38.39 | 32.69 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:12 | 38.71 | 33.01 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 0:57:12 | 39.04 | 33.34 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 0:57:13 | 39.37 | 33.67 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 0:57:13 | 39.70 | 34.00 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:13 | 40.03 | 34.33 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:14 | 40.35 | 34.65 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:14 | 40.68 | 34.98 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:15 | 41.01 | 35.31 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:15 | 41.34 | 35.64 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:15 | 41.67 | 35.97 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:16 | 41.99 | 36.29 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:16 | 42.32 | 36.62 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 0:57:16 | 42.65 | 36.95 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:17 | 42.98 | 37.28 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:17 | 43.31 | 37.61 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:17 | 43.64 | 37.94 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:18 | 43.96 | 38.26 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 0:57:18 | 44.29 | 38.59 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:18 | 44.62 | 38.92 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:19 | 44.95 | 39.25 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:19 | 45.28 | 39.58 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:57:19 | 45.60 | 39.90 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:57:20 | 45.93 | 40.23 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:57:20 | 46.26 | 40.56 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 0:57:20 | 46.59 | 40.89 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:57:21 | 46.92 | 41.22 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:57:21 | 47.24 | 41.54 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:57:21 | 47.57 | 41.87 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:57:22 | 47.90 | 42.20 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:57:22 | 48.23 | 42.53 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:22 | 48.56 | 42.86 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 0:57:22 | 48.88 | 43.18 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 0:57:23 | 49.21 | 43.51 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 0:57:23 | 49.54 | 43.84 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 0:57:23 | 49.87 | 44.17 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 0:57:24 | 50.20 | 44.50 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:57:24 | 50.53 | 44.83 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:57:24 | 50.85 | 45.15 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:57:25 | 51.18 | 45.48 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:57:25 | 51.51 | 45.81 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:57:35 | 51.84 | 46.14 | 83 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 0:57:36 | 52.17 | 46.47 | 155 | 1.14 | 0.29 | 8.5 |
| 5/1/2015 0:57:42 | 52.49 | 46.79 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 0:57:44 | 52.82 | 47.12 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 0:57:47 | 53.15 | 47.45 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 0:57:51 | 53.48 | 47.78 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 0:57:55 | 53.81 | 48.11 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 0:57:59 | 54.13 | 48.43 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 0:58:01 | 54.46 | 48.76 | 128 | 1.14 | 0.29 | 7.0 |
| 5/1/2015 0:58:05 | 54.79 | 49.09 | 105 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 0:58:09 | 55.12 | 49.42 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 0:58:13 | 55.45 | 49.75 | 90 | 1.14 | 0.29 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:58:17 | 55.77 | 50.07 | 81 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 0:58:21 | 56.10 | 50.40 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 | 0:58:26 | 56.43 | 50.73 | 81 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 0:58:29 | 56.76 | 51.06 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 0:58:32 | 57.09 | 51.39 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 0:58:35 | 57.41 | 51.71 | 123 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 | 0:58:42 | 57.74 | 52.04 | 80 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 | 0:58:47 | 58.07 | 52.37 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 0:58:53 | 58.40 | 52.70 | 62 | 1.14 | 0.29 | 3.4 |
| 5/1/2015 | 0:58:59 | 58.73 | 53.03 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 0:59:06 | 59.06 | 53.36 | 61 | 1.14 | 0.29 | 3.3 |

## L135 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:56:00

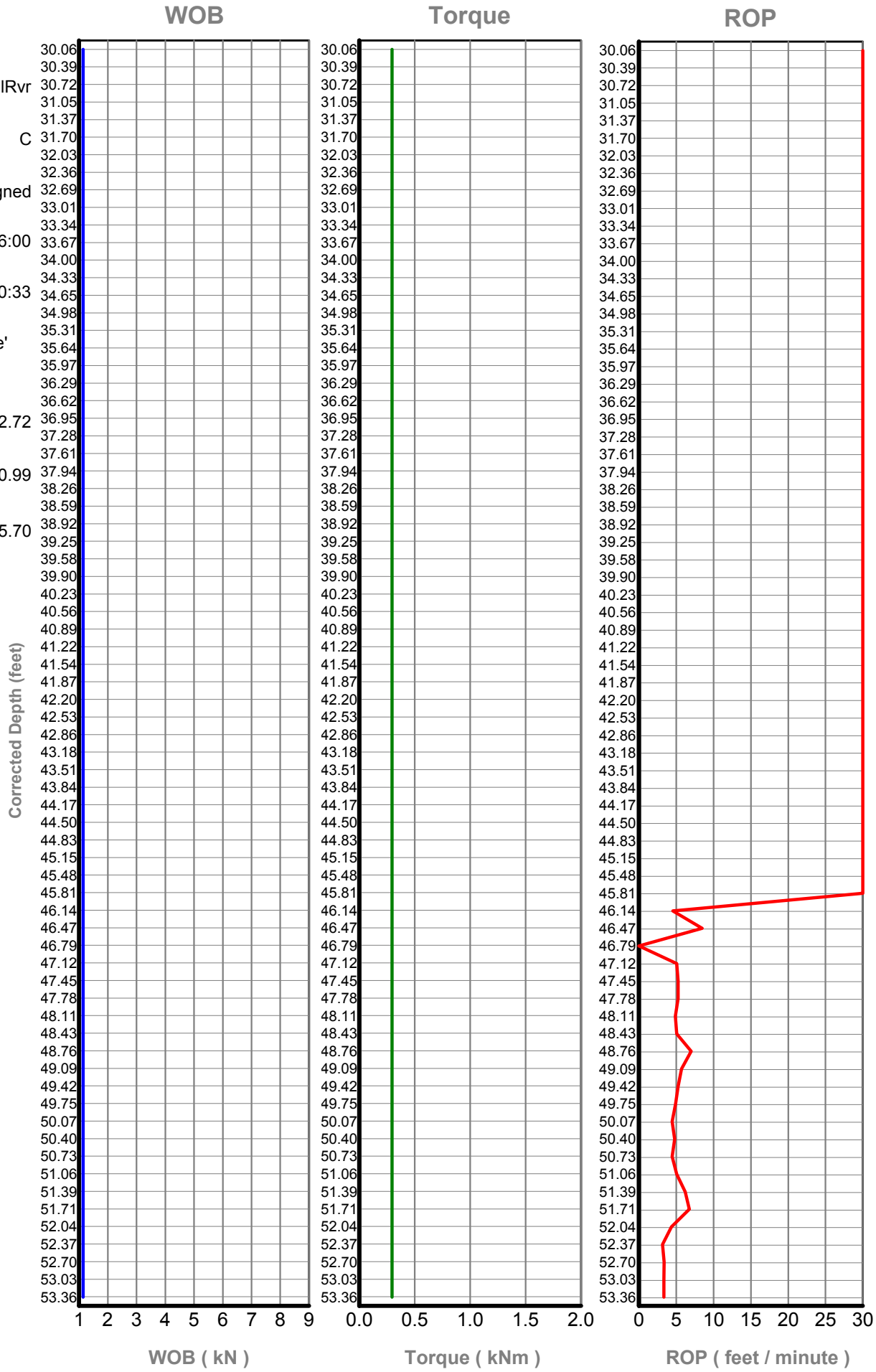
**End Date:**
5/1/2015 1:00:33

**Operator Note:**
'5.7 5.9 c Auto Complete'

**Northing:**
360,052.72

**Easting:**
242,810.99

**Tide (feet):**
5.70



## Hole: L136 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:20:20 | 36.75 | 30.05 | 1,353 | 1.89 | 0.79 | 74.0 |
| 4/30/2015 23:20:20 | 37.07 | 30.37 | 1,353 | 1.89 | 0.79 | 74.0 |
| 4/30/2015 23:20:20 | 37.40 | 30.70 | 1,350 | 1.88 | 0.80 | 73.8 |
| 4/30/2015 23:20:21 | 37.73 | 31.03 | 1,350 | 1.88 | 0.80 | 73.8 |
| 4/30/2015 23:20:21 | 38.06 | 31.36 | 1,350 | 1.88 | 0.77 | 73.8 |
| 4/30/2015 23:20:21 | 38.39 | 31.69 | 1,350 | 1.88 | 0.77 | 73.8 |
| 4/30/2015 23:20:21 | 38.71 | 32.01 | 1,350 | 1.89 | 0.79 | 73.8 |
| 4/30/2015 23:20:22 | 39.04 | 32.34 | 1,350 | 1.89 | 0.79 | 73.8 |
| 4/30/2015 23:20:22 | 39.37 | 32.67 | 1,353 | 1.87 | 0.78 | 74.0 |
| 4/30/2015 23:20:22 | 39.70 | 33.00 | 1,353 | 1.87 | 0.78 | 74.0 |
| 4/30/2015 23:20:22 | 40.03 | 33.33 | 1,347 | 1.91 | 0.78 | 73.7 |
| 4/30/2015 23:20:23 | 40.35 | 33.65 | 1,347 | 1.91 | 0.78 | 73.7 |
| 4/30/2015 23:20:23 | 40.68 | 33.98 | 1,337 | 1.90 | 0.81 | 73.1 |
| 4/30/2015 23:20:23 | 41.01 | 34.31 | 1,337 | 1.90 | 0.81 | 73.1 |
| 4/30/2015 23:20:23 | 41.34 | 34.64 | 1,337 | 1.85 | 0.80 | 73.1 |
| 4/30/2015 23:20:24 | 41.67 | 34.97 | 1,337 | 1.85 | 0.80 | 73.1 |
| 4/30/2015 23:20:24 | 41.99 | 35.29 | 1,345 | 1.89 | 0.79 | 73.5 |
| 4/30/2015 23:20:24 | 42.32 | 35.62 | 1,345 | 1.89 | 0.79 | 73.5 |
| 4/30/2015 23:20:24 | 42.65 | 35.95 | 1,350 | 1.87 | 0.77 | 73.8 |
| 4/30/2015 23:20:25 | 42.98 | 36.28 | 1,350 | 1.87 | 0.77 | 73.8 |
| 4/30/2015 23:20:25 | 43.31 | 36.61 | 1,339 | 1.88 | 0.23 | 73.2 |
| 4/30/2015 23:20:25 | 43.64 | 36.94 | 1,349 | 1.87 | 0.23 | 73.8 |
| 4/30/2015 23:20:26 | 43.96 | 37.26 | 1,349 | 1.87 | 0.23 | 73.8 |
| 4/30/2015 23:20:26 | 44.29 | 37.59 | 1,344 | 1.87 | 0.23 | 73.5 |
| 4/30/2015 23:20:27 | 44.62 | 37.92 | 1,344 | 1.87 | 0.23 | 73.5 |
| 4/30/2015 23:20:27 | 44.95 | 38.25 | 1,344 | 1.89 | 0.23 | 73.5 |
| 4/30/2015 23:20:27 | 45.28 | 38.58 | 1,344 | 1.89 | 0.23 | 73.5 |
| 4/30/2015 23:20:27 | 45.60 | 38.90 | 1,333 | 1.87 | 0.23 | 72.9 |
| 4/30/2015 23:20:28 | 45.93 | 39.23 | 1,333 | 1.87 | 0.23 | 72.9 |
| 4/30/2015 23:20:28 | 46.26 | 39.56 | 1,341 | 1.87 | 0.23 | 73.3 |
| 4/30/2015 23:20:28 | 46.59 | 39.89 | 1,341 | 1.87 | 0.23 | 73.3 |
| 4/30/2015 23:20:28 | 46.92 | 40.22 | 1,344 | 1.90 | 0.23 | 73.5 |
| 4/30/2015 23:20:29 | 47.24 | 40.54 | 1,344 | 1.90 | 0.23 | 73.5 |
| 4/30/2015 23:20:29 | 47.57 | 40.87 | 1,347 | 1.87 | 0.23 | 73.6 |
| 4/30/2015 23:20:29 | 47.90 | 41.20 | 1,347 | 1.87 | 0.23 | 73.6 |
| 4/30/2015 23:20:29 | 48.23 | 41.53 | 1,335 | 1.87 | 0.23 | 73.0 |
| 4/30/2015 23:20:30 | 48.56 | 41.86 | 1,335 | 1.87 | 0.23 | 73.0 |
| 4/30/2015 23:20:30 | 48.88 | 42.18 | 1,338 | 1.91 | 0.23 | 73.2 |
| 4/30/2015 23:20:30 | 49.21 | 42.51 | 1,338 | 1.91 | 0.23 | 73.2 |
| 4/30/2015 23:20:30 | 49.54 | 42.84 | 1,341 | 1.89 | 0.23 | 73.3 |
| 4/30/2015 23:20:31 | 49.87 | 43.17 | 1,341 | 1.89 | 0.23 | 73.3 |
| 4/30/2015 23:20:31 | 50.20 | 43.50 | 1,338 | 1.88 | 0.23 | 73.2 |
| 4/30/2015 23:20:31 | 50.53 | 43.83 | 1,338 | 1.88 | 0.23 | 73.2 |
| 4/30/2015 23:20:31 | 50.85 | 44.15 | 1,338 | 1.88 | 0.23 | 73.2 |
| 4/30/2015 23:20:32 | 51.18 | 44.48 | 1,338 | 1.88 | 0.23 | 73.2 |
| 4/30/2015 23:20:32 | 51.51 | 44.81 | 1,338 | 1.89 | 0.23 | 73.2 |
| 4/30/2015 23:20:32 | 51.84 | 45.14 | 1,338 | 1.89 | 0.23 | 73.2 |
| 4/30/2015 23:20:32 | 52.17 | 45.47 | 1,338 | 1.91 | 0.23 | 73.2 |
| 4/30/2015 23:20:33 | 52.49 | 45.79 | 1,338 | 1.91 | 0.23 | 73.2 |
| 4/30/2015 23:20:33 | 52.82 | 46.12 | 1,324 | 1.90 | 0.23 | 72.4 |
| 4/30/2015 23:20:33 | 53.15 | 46.45 | 1,324 | 1.90 | 0.23 | 72.4 |
| 4/30/2015 23:21:01 | 53.48 | 46.78 | 23 | 1.07 | 1.30 | 1.3 |
| 4/30/2015 23:21:02 | 53.81 | 47.11 | 136 | 1.17 | 1.09 | 7.4 |
| 4/30/2015 23:21:04 | 54.13 | 47.43 | 196 | 1.07 | 1.20 | 10.7 |
| 4/30/2015 23:21:08 | 54.46 | 47.76 | 96 | 1.09 | 1.10 | 5.2 |
| 4/30/2015 23:21:12 | 54.79 | 48.09 | 86 | 1.05 | 1.13 | 4.7 |
| 4/30/2015 23:21:21 | 55.12 | 48.42 | 58 | 1.09 | 1.04 | 3.2 |
| 4/30/2015 23:21:29 | 55.45 | 48.75 | 44 | 1.05 | 0.91 | 2.4 |
| 4/30/2015 23:21:36 | 55.77 | 49.07 | 52 | 1.02 | 0.95 | 2.8 |
| 4/30/2015 23:21:42 | 56.10 | 49.40 | 44 | 1.02 | 0.96 | 2.4 |
| 4/30/2015 23:21:49 | 56.43 | 49.73 | 61 | 1.05 | 1.12 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:21:56 | 56.76 | 50.06 | 51 | 1.05 | 1.05 | 2.8 |
| 4/30/2015 | 23:22:04 | 57.09 | 50.39 | 40 | 1.00 | 0.93 | 2.2 |
| 4/30/2015 | 23:22:08 | 57.21 | 50.51 | 35 | 0.67 | 0.92 | 1.9 |

## L136 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
4/30/2015 23:18:40

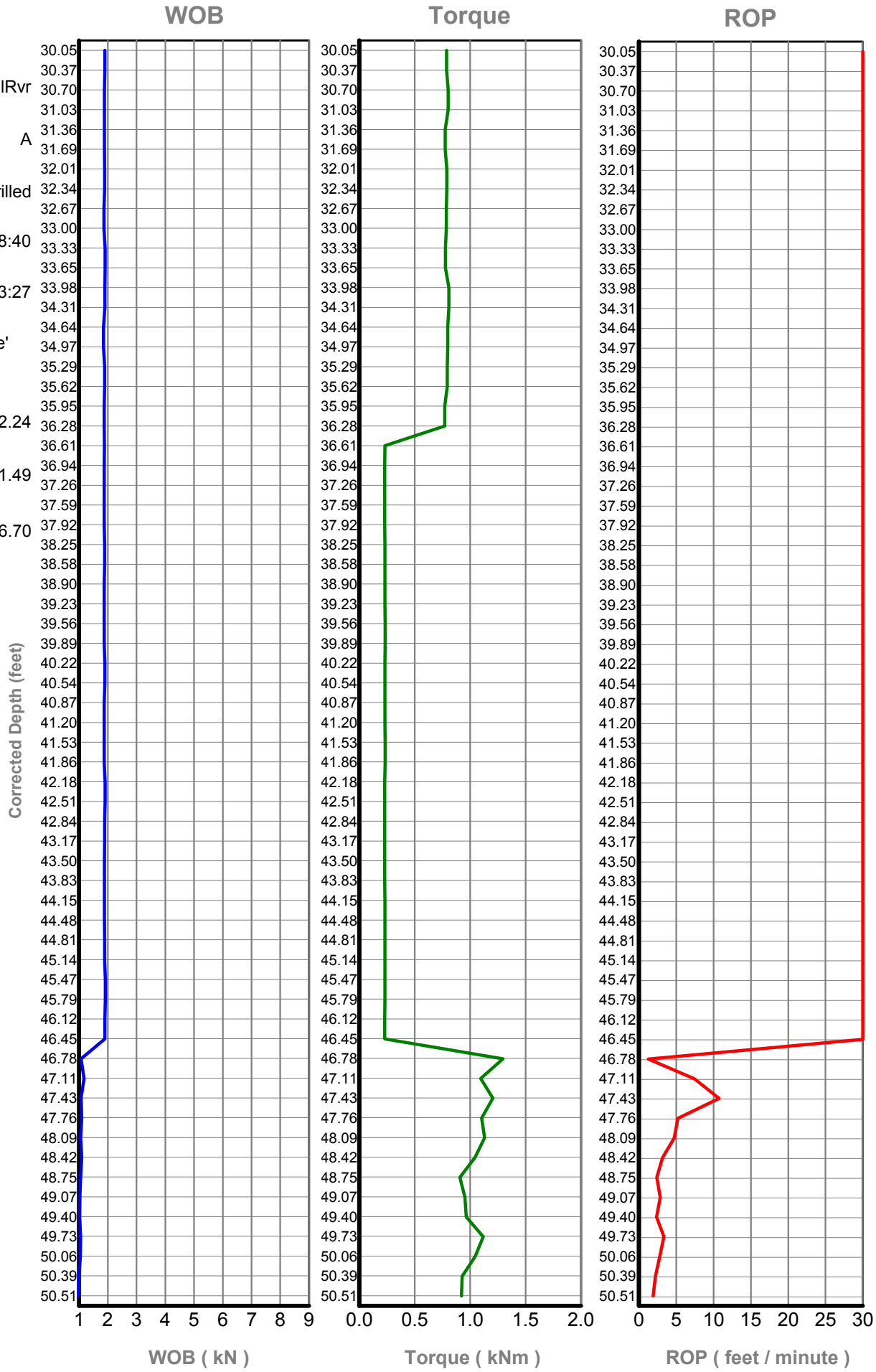
**End Date:**
4/30/2015 23:23:27

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
360,092.24

**Easting:**
242,871.49

**Tide (feet):**
6.70



## Hole: L137 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:18:41 | 36.75 | 30.05 | 1,114 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 23:18:41 | 37.07 | 30.37 | 1,114 | 0.30 | 0.38 | 60.9 |
| 4/30/2015 23:18:41 | 37.40 | 30.70 | 1,128 | 0.30 | 0.38 | 61.7 |
| 4/30/2015 23:18:42 | 37.73 | 31.03 | 1,128 | 0.30 | 0.38 | 61.7 |
| 4/30/2015 23:18:42 | 38.06 | 31.36 | 1,132 | 0.31 | 0.37 | 61.9 |
| 4/30/2015 23:18:42 | 38.39 | 31.69 | 1,132 | 0.31 | 0.37 | 61.9 |
| 4/30/2015 23:18:42 | 38.71 | 32.01 | 1,128 | 0.30 | 0.37 | 61.7 |
| 4/30/2015 23:18:43 | 39.04 | 32.34 | 1,134 | 0.37 | 0.38 | 62.0 |
| 4/30/2015 23:18:43 | 39.37 | 32.67 | 1,134 | 0.37 | 0.38 | 62.0 |
| 4/30/2015 23:18:43 | 39.70 | 33.00 | 1,162 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 23:18:44 | 40.03 | 33.33 | 1,162 | 0.30 | 0.37 | 63.5 |
| 4/30/2015 23:18:44 | 40.35 | 33.65 | 1,150 | 0.31 | 0.38 | 62.9 |
| 4/30/2015 23:18:44 | 40.68 | 33.98 | 1,147 | 0.30 | 0.38 | 62.7 |
| 4/30/2015 23:18:45 | 41.01 | 34.31 | 1,147 | 0.30 | 0.38 | 62.7 |
| 4/30/2015 23:18:45 | 41.34 | 34.64 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 23:18:45 | 41.67 | 34.97 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 23:18:45 | 41.99 | 35.29 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 23:18:46 | 42.32 | 35.62 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 23:18:46 | 42.65 | 35.95 | 1,150 | 0.30 | 0.38 | 62.9 |
| 4/30/2015 23:18:46 | 42.98 | 36.28 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 23:18:47 | 43.31 | 36.61 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 23:18:47 | 43.64 | 36.94 | 1,148 | 0.32 | 0.37 | 62.8 |
| 4/30/2015 23:18:48 | 43.96 | 37.26 | 1,143 | 0.30 | 0.37 | 62.5 |
| 4/30/2015 23:18:48 | 44.29 | 37.59 | 1,143 | 0.30 | 0.37 | 62.5 |
| 4/30/2015 23:18:48 | 44.62 | 37.92 | 1,153 | 0.30 | 0.38 | 63.1 |
| 4/30/2015 23:18:49 | 44.95 | 38.25 | 1,153 | 0.30 | 0.38 | 63.1 |
| 4/30/2015 23:18:49 | 45.28 | 38.58 | 1,144 | 0.30 | 0.38 | 62.6 |
| 4/30/2015 23:18:49 | 45.60 | 38.90 | 1,123 | 0.31 | 0.38 | 61.4 |
| 4/30/2015 23:18:50 | 45.93 | 39.23 | 1,123 | 0.31 | 0.38 | 61.4 |
| 4/30/2015 23:18:50 | 46.26 | 39.56 | 1,123 | 0.30 | 0.37 | 61.4 |
| 4/30/2015 23:18:50 | 46.59 | 39.89 | 1,123 | 0.30 | 0.37 | 61.4 |
| 4/30/2015 23:18:50 | 46.92 | 40.22 | 1,139 | 0.30 | 0.38 | 62.3 |
| 4/30/2015 23:18:51 | 47.24 | 40.54 | 1,146 | 0.30 | 0.37 | 62.7 |
| 4/30/2015 23:18:51 | 47.57 | 40.87 | 1,146 | 0.30 | 0.37 | 62.7 |
| 4/30/2015 23:18:51 | 47.90 | 41.20 | 1,146 | 0.30 | 0.38 | 62.7 |
| 4/30/2015 23:18:52 | 48.23 | 41.53 | 1,146 | 0.30 | 0.38 | 62.7 |
| 4/30/2015 23:18:52 | 48.56 | 41.86 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 23:18:52 | 48.88 | 42.18 | 1,170 | 0.30 | 0.38 | 64.0 |
| 4/30/2015 23:18:53 | 49.21 | 42.51 | 1,170 | 0.30 | 0.38 | 64.0 |
| 4/30/2015 23:18:53 | 49.54 | 42.84 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 23:18:53 | 49.87 | 43.17 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 23:18:53 | 50.20 | 43.50 | 1,153 | 0.30 | 0.38 | 63.1 |
| 4/30/2015 23:18:54 | 50.53 | 43.83 | 1,150 | 0.37 | 0.37 | 62.9 |
| 4/30/2015 23:18:54 | 50.85 | 44.15 | 1,150 | 0.37 | 0.37 | 62.9 |
| 4/30/2015 23:18:54 | 51.18 | 44.48 | 1,148 | 0.30 | 0.38 | 62.8 |
| 4/30/2015 23:18:55 | 51.51 | 44.81 | 1,148 | 0.30 | 0.38 | 62.8 |
| 4/30/2015 23:18:55 | 51.84 | 45.14 | 1,141 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 23:18:55 | 52.17 | 45.47 | 1,141 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 23:18:55 | 52.49 | 45.79 | 1,144 | 0.33 | 0.38 | 62.6 |
| 4/30/2015 23:18:56 | 52.82 | 46.12 | 1,151 | 0.31 | 0.44 | 63.0 |
| 4/30/2015 23:18:56 | 53.15 | 46.45 | 1,151 | 0.31 | 0.44 | 63.0 |
| 4/30/2015 23:18:30 | 53.19 | 46.49 | 651 | 1.37 | 0.19 | 35.6 |
| 4/30/2015 23:18:56 | 53.48 | 46.78 | 1,148 | 0.29 | 0.39 | 62.8 |
| 4/30/2015 23:18:57 | 53.81 | 47.11 | 1,131 | 0.27 | 0.48 | 61.9 |
| 4/30/2015 23:19:03 | 54.13 | 47.43 | 94 | 6.45 | 0.47 | 5.1 |
| 4/30/2015 23:19:07 | 54.36 | 47.66 | 34 | 4.80 | 0.47 | 1.9 |

## L137 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:17:10

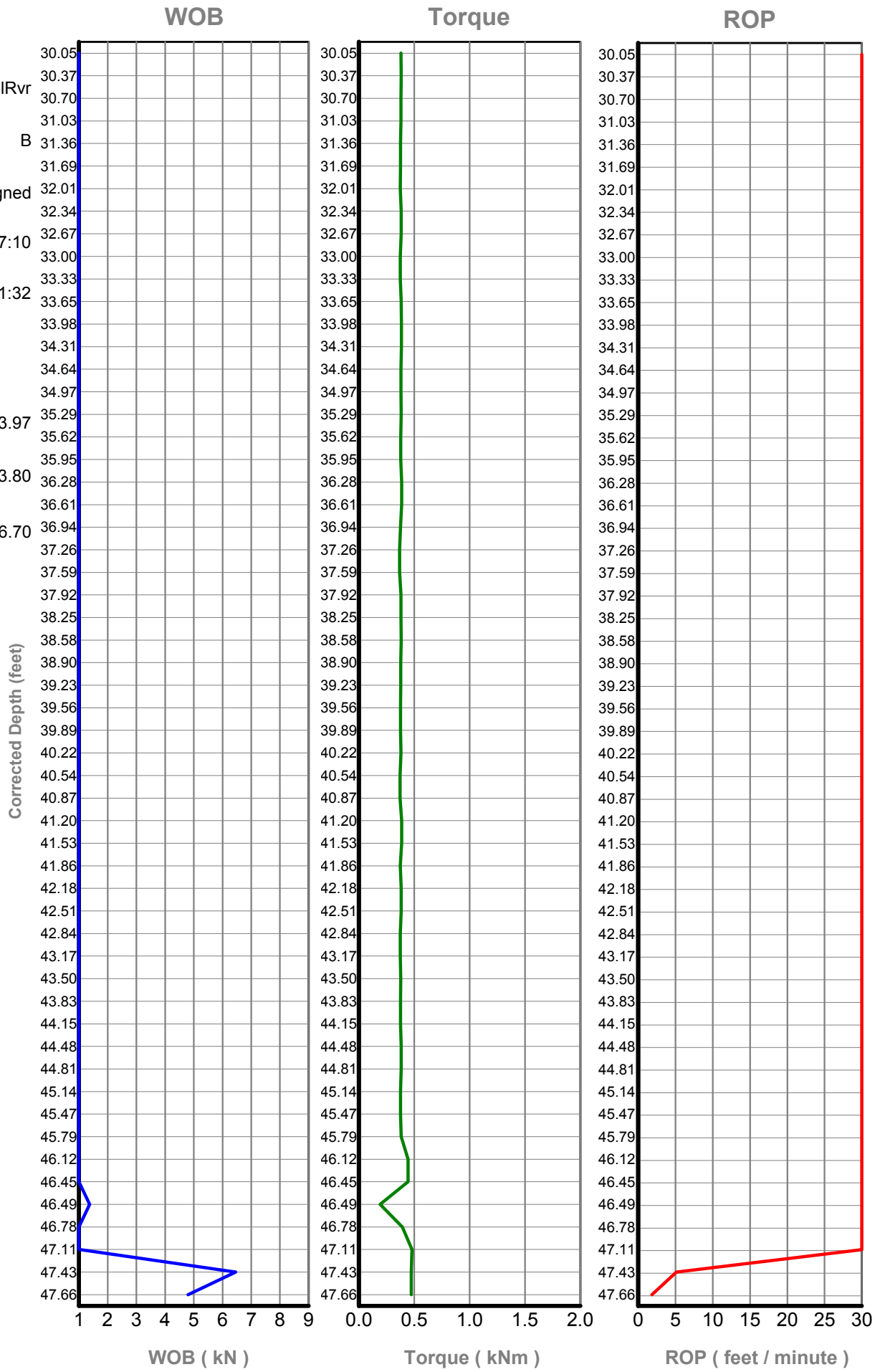
**End Date:**
4/30/2015 23:21:32

**Operator Note:**
'6.7 '5.5 6.7b Auto Complete'

**Northing:**
360,133.97

**Easting:**
242,933.80

**Tide (feet):**
6.70



## Hole: L138 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:22:14 | 36.75 | 30.05 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 23:22:14 | 37.07 | 30.37 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 23:22:15 | 37.40 | 30.70 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 23:22:15 | 37.73 | 31.03 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 23:22:16 | 38.06 | 31.36 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 23:22:16 | 38.39 | 31.69 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 23:22:16 | 38.71 | 32.01 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 23:22:17 | 39.04 | 32.34 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:22:17 | 39.37 | 32.67 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:22:17 | 39.70 | 33.00 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:22:18 | 40.03 | 33.33 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:22:18 | 40.35 | 33.65 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:22:18 | 40.68 | 33.98 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:22:19 | 41.01 | 34.31 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:22:19 | 41.34 | 34.64 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:22:19 | 41.67 | 34.97 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:22:20 | 41.99 | 35.29 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:22:20 | 42.32 | 35.62 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:22:20 | 42.65 | 35.95 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:22:21 | 42.98 | 36.28 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:22:21 | 43.31 | 36.61 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:22:21 | 43.64 | 36.94 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:22:22 | 43.96 | 37.26 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:22:22 | 44.29 | 37.59 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:22:22 | 44.62 | 37.92 | 1,057 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 23:22:23 | 44.95 | 38.25 | 1,057 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 23:22:23 | 45.28 | 38.58 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:22:23 | 45.60 | 38.90 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:22:23 | 45.93 | 39.23 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:22:24 | 46.26 | 39.56 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:22:24 | 46.59 | 39.89 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:22:24 | 46.92 | 40.22 | 1,060 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:22:25 | 47.24 | 40.54 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:22:26 | 47.57 | 40.87 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:22:25 | 47.90 | 41.20 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:22:26 | 48.23 | 41.53 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:22:27 | 48.56 | 41.86 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:22:27 | 48.88 | 42.18 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:22:27 | 49.21 | 42.51 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 23:22:28 | 49.54 | 42.84 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 23:22:28 | 49.87 | 43.17 | 1,069 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:22:28 | 50.20 | 43.50 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 23:22:29 | 50.53 | 43.83 | 1,078 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 23:22:29 | 50.85 | 44.15 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 23:22:29 | 51.18 | 44.48 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 23:22:29 | 51.51 | 44.81 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 23:22:30 | 51.84 | 45.14 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:22:30 | 52.17 | 45.47 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:22:30 | 52.49 | 45.79 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 23:22:31 | 52.82 | 46.12 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:22:31 | 53.15 | 46.45 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:22:31 | 53.48 | 46.78 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:22:32 | 53.81 | 47.11 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:22:32 | 54.13 | 47.43 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:22:32 | 54.46 | 47.76 | 1,051 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:22:33 | 54.79 | 48.09 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:22:33 | 55.12 | 48.42 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:22:33 | 55.45 | 48.75 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:22:34 | 55.77 | 49.07 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:22:34 | 56.10 | 49.40 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:22:34 | 56.43 | 49.73 | 1,062 | 1.14 | 0.29 | 58.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:22:35 | 56.76 | 50.06 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 | 23:22:35 | 57.09 | 50.39 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 | 23:22:35 | 57.41 | 50.71 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 | 23:22:54 | 57.74 | 51.04 | 66 | 1.14 | 0.29 | 3.6 |
| 4/30/2015 | 23:22:55 | 58.07 | 51.37 | 188 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 | 23:23:02 | 58.40 | 51.70 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 | 23:23:03 | 58.73 | 52.03 | 214 | 1.14 | 0.29 | 11.7 |
| 4/30/2015 | 23:23:04 | 59.06 | 52.36 | 340 | 1.14 | 0.29 | 18.6 |
| 4/30/2015 | 23:23:05 | 59.38 | 52.68 | 385 | 1.14 | 0.29 | 21.1 |
| 4/30/2015 | 23:23:08 | 59.71 | 53.01 | 131 | 1.14 | 0.29 | 7.2 |
| 4/30/2015 | 23:23:10 | 60.04 | 53.34 | 175 | 1.14 | 0.29 | 9.5 |
| 4/30/2015 | 23:23:11 | 60.37 | 53.67 | 202 | 1.14 | 0.29 | 11.1 |
| 4/30/2015 | 23:23:14 | 60.70 | 54.00 | 160 | 1.14 | 0.29 | 8.7 |
| 4/30/2015 | 23:23:16 | 61.02 | 54.32 | 156 | 1.14 | 0.29 | 8.5 |
| 4/30/2015 | 23:23:18 | 61.35 | 54.65 | 180 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 | 23:23:20 | 61.68 | 54.98 | 212 | 1.14 | 0.29 | 11.6 |
| 4/30/2015 | 23:23:20 | 61.77 | 55.07 | 212 | 1.14 | 0.29 | 11.6 |

## L138 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:21:19

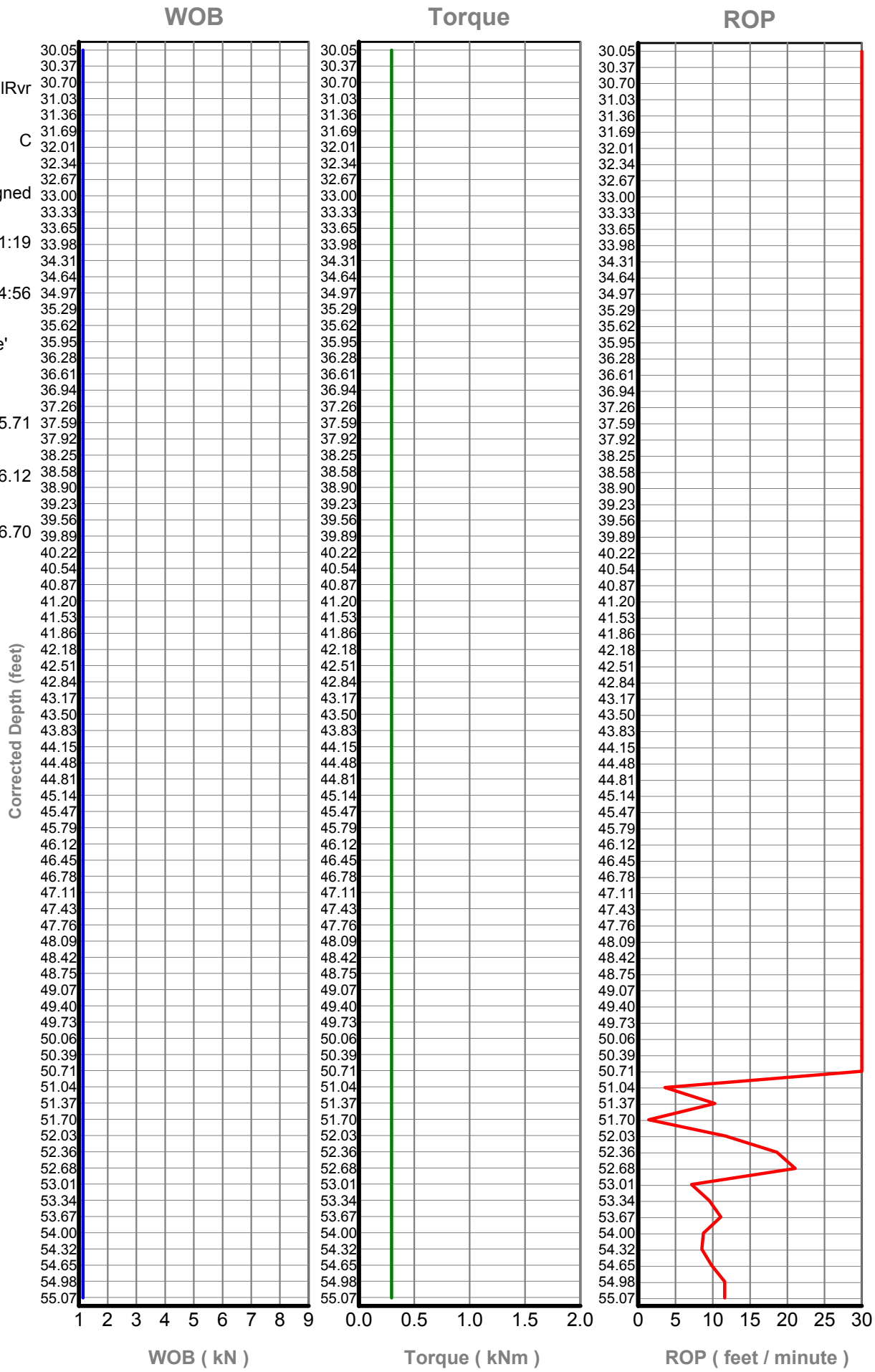
**End Date:**
4/30/2015 23:24:56

**Operator Note:**
'6.7 6.7 c Auto Complete'

**Northing:**
360,175.71

**Easting:**
242,996.12

**Tide (feet):**
6.70



## Hole: L139 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:13:40 | 35.76 | 30.06 | 728 | 1.10 | 0.76 | 39.8 |
| 4/30/2015 21:13:40 | 36.09 | 30.39 | 731 | 1.10 | 0.77 | 40.0 |
| 4/30/2015 21:13:41 | 36.42 | 30.72 | 724 | 1.11 | 0.74 | 39.6 |
| 4/30/2015 21:13:41 | 36.75 | 31.05 | 729 | 1.10 | 0.77 | 39.9 |
| 4/30/2015 21:13:42 | 37.07 | 31.37 | 729 | 1.10 | 0.74 | 39.9 |
| 4/30/2015 21:13:42 | 37.40 | 31.70 | 717 | 1.10 | 0.77 | 39.2 |
| 4/30/2015 21:13:43 | 37.73 | 32.03 | 717 | 1.11 | 0.77 | 39.2 |
| 4/30/2015 21:13:43 | 38.06 | 32.36 | 721 | 1.11 | 0.76 | 39.4 |
| 4/30/2015 21:13:44 | 38.39 | 32.69 | 724 | 1.11 | 0.77 | 39.6 |
| 4/30/2015 21:13:44 | 38.71 | 33.01 | 722 | 1.10 | 0.75 | 39.5 |
| 4/30/2015 21:13:45 | 39.04 | 33.34 | 715 | 1.10 | 0.76 | 39.1 |
| 4/30/2015 21:13:45 | 39.37 | 33.67 | 715 | 1.11 | 0.75 | 39.1 |
| 4/30/2015 21:13:46 | 39.70 | 34.00 | 731 | 1.09 | 0.76 | 40.0 |
| 4/30/2015 21:13:46 | 40.03 | 34.33 | 727 | 1.11 | 0.77 | 39.8 |
| 4/30/2015 21:13:47 | 40.35 | 34.65 | 726 | 1.10 | 0.76 | 39.7 |
| 4/30/2015 21:13:47 | 40.68 | 34.98 | 723 | 1.12 | 0.77 | 39.5 |
| 4/30/2015 21:13:48 | 41.01 | 35.31 | 731 | 1.11 | 0.76 | 40.0 |
| 4/30/2015 21:13:49 | 41.34 | 35.64 | 731 | 1.11 | 0.76 | 40.0 |
| 4/30/2015 21:13:49 | 41.67 | 35.97 | 726 | 1.11 | 0.74 | 39.7 |
| 4/30/2015 21:13:49 | 41.99 | 36.29 | 720 | 1.10 | 0.76 | 39.4 |
| 4/30/2015 21:13:50 | 42.32 | 36.62 | 711 | 1.11 | 0.75 | 38.9 |
| 4/30/2015 21:13:50 | 42.65 | 36.95 | 711 | 1.06 | 0.76 | 38.9 |
| 4/30/2015 21:13:51 | 42.98 | 37.28 | 717 | 1.11 | 0.77 | 39.2 |
| 4/30/2015 21:13:51 | 43.31 | 37.61 | 714 | 1.09 | 0.74 | 39.1 |
| 4/30/2015 21:13:52 | 43.64 | 37.94 | 716 | 1.11 | 0.76 | 39.1 |
| 4/30/2015 21:13:52 | 43.96 | 38.26 | 717 | 1.13 | 0.72 | 39.2 |
| 4/30/2015 21:13:53 | 44.29 | 38.59 | 725 | 1.10 | 0.20 | 39.6 |
| 4/30/2015 21:13:53 | 44.62 | 38.92 | 722 | 1.09 | 0.20 | 39.5 |
| 4/30/2015 21:13:54 | 44.95 | 39.25 | 732 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:13:54 | 45.28 | 39.58 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 21:13:55 | 45.60 | 39.90 | 738 | 1.11 | 0.20 | 40.3 |
| 4/30/2015 21:13:55 | 45.93 | 40.23 | 742 | 1.21 | 0.26 | 40.6 |
| 4/30/2015 21:13:56 | 46.26 | 40.56 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:13:56 | 46.59 | 40.89 | 723 | 1.13 | 0.20 | 39.5 |
| 4/30/2015 21:13:57 | 46.92 | 41.22 | 723 | 1.13 | 0.20 | 39.5 |
| 4/30/2015 21:13:57 | 47.24 | 41.54 | 723 | 1.32 | 0.20 | 39.5 |
| 4/30/2015 21:13:57 | 47.57 | 41.87 | 724 | 1.11 | 0.20 | 39.6 |
| 4/30/2015 21:13:58 | 47.90 | 42.20 | 711 | 1.18 | 0.25 | 38.9 |
| 4/30/2015 21:13:58 | 48.23 | 42.53 | 711 | 1.12 | 0.20 | 38.9 |
| 4/30/2015 21:13:59 | 48.56 | 42.86 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 21:14:00 | 48.88 | 43.18 | 723 | 1.12 | 0.20 | 39.5 |
| 4/30/2015 21:14:00 | 49.21 | 43.51 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:14:01 | 49.54 | 43.84 | 726 | 1.10 | 0.20 | 39.7 |
| 4/30/2015 21:14:01 | 49.87 | 44.17 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 21:14:02 | 50.20 | 44.50 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:14:02 | 50.53 | 44.83 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:14:03 | 50.85 | 45.15 | 719 | 1.09 | 0.20 | 39.3 |
| 4/30/2015 21:14:03 | 51.18 | 45.48 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:14:04 | 51.51 | 45.81 | 719 | 1.09 | 0.20 | 39.3 |
| 4/30/2015 21:14:04 | 51.84 | 46.14 | 723 | 1.12 | 0.20 | 39.5 |
| 4/30/2015 21:14:05 | 52.17 | 46.47 | 719 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 21:14:05 | 52.49 | 46.79 | 723 | 1.12 | 0.20 | 39.5 |
| 4/30/2015 21:14:06 | 52.82 | 47.12 | 720 | 1.10 | 0.20 | 39.4 |
| 4/30/2015 21:14:06 | 53.15 | 47.45 | 724 | 1.10 | 0.20 | 39.6 |
| 4/30/2015 21:14:07 | 53.48 | 47.78 | 724 | 1.10 | 0.20 | 39.6 |
| 4/30/2015 21:14:07 | 53.81 | 48.11 | 716 | 1.11 | 0.20 | 39.1 |
| 4/30/2015 21:14:07 | 54.13 | 48.43 | 724 | 1.11 | 0.20 | 39.6 |
| 4/30/2015 21:14:28 | 54.46 | 48.76 | 0 | 1.11 | 1.03 | 0.0 |
| 4/30/2015 21:14:29 | 54.79 | 49.09 | 131 | 1.11 | 1.30 | 7.2 |
| 4/30/2015 21:14:31 | 55.12 | 49.42 | 250 | 1.11 | 1.22 | 13.7 |
| 4/30/2015 21:14:32 | 55.45 | 49.75 | 236 | 1.13 | 0.98 | 12.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:14:34 | 55.77 | 50.07 | 270 | 1.08 | 1.37 | 14.8 |
| 4/30/2015 | 21:14:35 | 56.10 | 50.40 | 360 | 1.13 | 1.09 | 19.7 |
| 4/30/2015 | 21:14:39 | 56.43 | 50.73 | 52 | 1.20 | 1.49 | 2.9 |
| 4/30/2015 | 21:15:29 | 56.76 | 51.06 | 0 | 1.05 | 1.93 | 0.0 |
| 4/30/2015 | 21:15:33 | 57.09 | 51.39 | 111 | 1.01 | 0.91 | 6.1 |
| 4/30/2015 | 21:15:45 | 57.41 | 51.71 | 25 | 1.09 | 1.03 | 1.3 |
| 4/30/2015 | 21:16:01 | 57.74 | 52.04 | 26 | 1.12 | 0.98 | 1.4 |
| 4/30/2015 | 21:16:15 | 58.07 | 52.37 | 29 | 1.05 | 1.06 | 1.6 |
| 4/30/2015 | 21:16:19 | 58.19 | 52.49 | 32 | 0.80 | 1.20 | 1.7 |

## L139 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:11:17

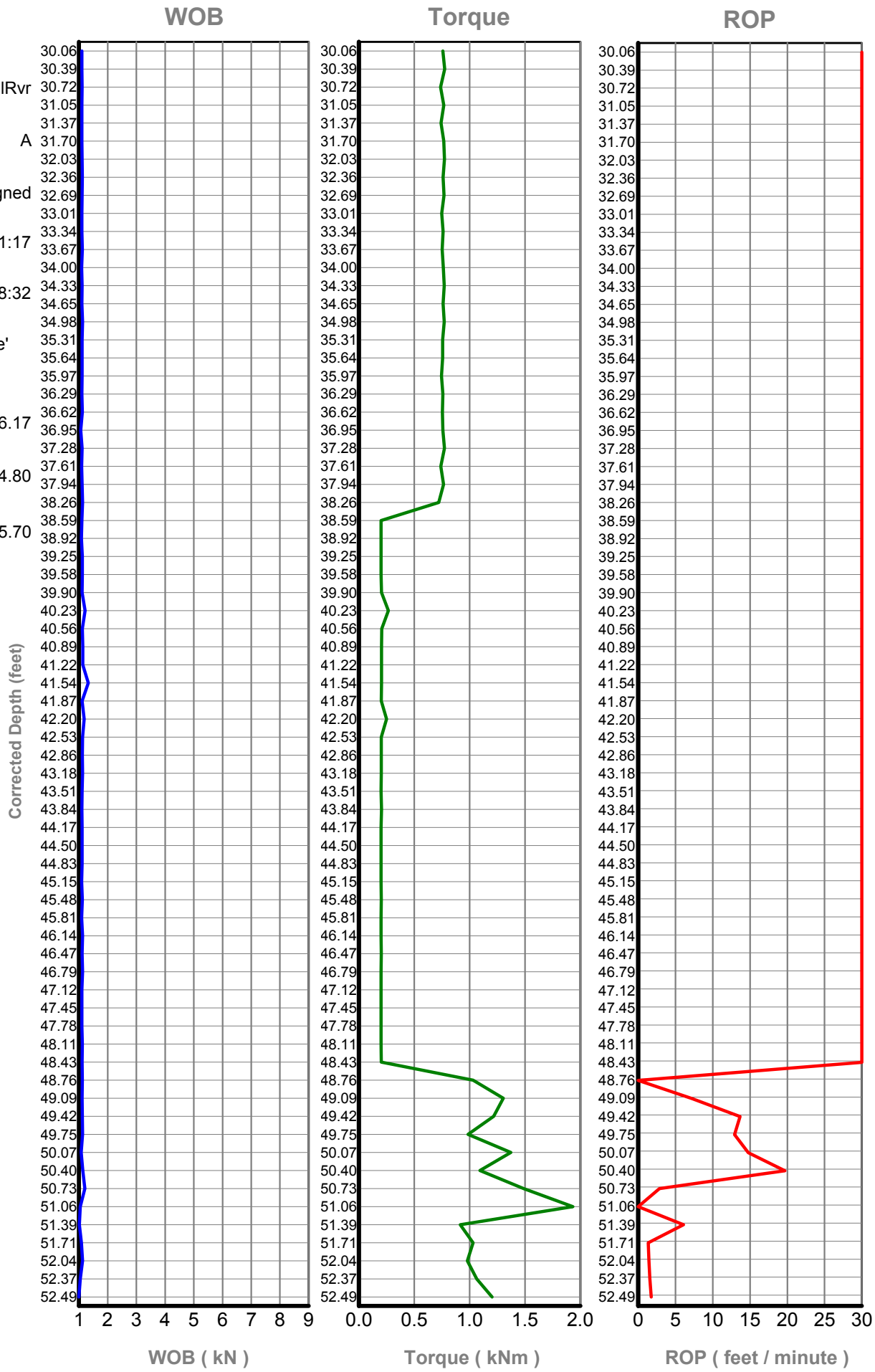
**End Date:**
4/30/2015 21:18:32

**Operator Note:**
'5.7 5.3 a Auto Complete'

**Northing:**
360,216.17

**Easting:**
243,064.80

**Tide (feet):**
5.70



## Hole: L14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:44:57 | 35.11 | 30.01 | 1,166 | 0.29 | 0.38 | 63.8 |
| 5/1/2015 13:44:57 | 35.43 | 30.33 | 1,166 | 0.29 | 0.38 | 63.8 |
| 5/1/2015 13:44:57 | 35.76 | 30.66 | 1,172 | 0.28 | 0.37 | 64.1 |
| 5/1/2015 13:44:58 | 36.09 | 30.99 | 1,172 | 0.28 | 0.37 | 64.1 |
| 5/1/2015 13:44:58 | 36.42 | 31.32 | 1,171 | 0.29 | 0.36 | 64.0 |
| 5/1/2015 13:44:58 | 36.75 | 31.65 | 1,171 | 0.29 | 0.36 | 64.0 |
| 5/1/2015 13:44:58 | 37.07 | 31.97 | 1,171 | 0.28 | 0.37 | 64.0 |
| 5/1/2015 13:44:59 | 37.40 | 32.30 | 1,194 | 0.28 | 0.36 | 65.3 |
| 5/1/2015 13:45:00 | 37.73 | 32.63 | 1,194 | 0.28 | 0.36 | 65.3 |
| 5/1/2015 13:45:00 | 38.06 | 32.96 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/1/2015 13:45:00 | 38.39 | 33.29 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/1/2015 13:45:00 | 38.71 | 33.61 | 1,203 | 0.29 | 0.38 | 65.8 |
| 5/1/2015 13:45:01 | 39.04 | 33.94 | 1,203 | 0.29 | 0.38 | 65.8 |
| 5/1/2015 13:45:01 | 39.37 | 34.27 | 1,199 | 0.29 | 0.36 | 65.6 |
| 5/1/2015 13:45:01 | 39.70 | 34.60 | 1,218 | 0.29 | 0.38 | 66.6 |
| 5/1/2015 13:45:02 | 40.03 | 34.93 | 1,218 | 0.29 | 0.38 | 66.6 |
| 5/1/2015 13:45:02 | 40.35 | 35.25 | 1,223 | 0.29 | 0.38 | 66.9 |
| 5/1/2015 13:45:02 | 40.68 | 35.58 | 1,223 | 0.29 | 0.38 | 66.9 |
| 5/1/2015 13:45:02 | 41.01 | 35.91 | 1,217 | 0.35 | 0.37 | 66.6 |
| 5/1/2015 13:45:03 | 41.34 | 36.24 | 1,217 | 0.35 | 0.37 | 66.6 |
| 5/1/2015 13:45:03 | 41.67 | 36.57 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 13:45:03 | 41.99 | 36.89 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 13:45:03 | 42.32 | 37.22 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 13:45:04 | 42.65 | 37.55 | 1,224 | 0.28 | 0.36 | 66.9 |
| 5/1/2015 13:45:04 | 42.98 | 37.88 | 1,224 | 0.28 | 0.36 | 66.9 |
| 5/1/2015 13:45:04 | 43.31 | 38.21 | 1,218 | 0.28 | 0.38 | 66.6 |
| 5/1/2015 13:45:05 | 43.64 | 38.54 | 1,218 | 0.28 | 0.38 | 66.6 |
| 5/1/2015 13:45:05 | 43.96 | 38.86 | 1,224 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 13:45:05 | 44.29 | 39.19 | 1,224 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 13:45:05 | 44.62 | 39.52 | 1,231 | 0.28 | 0.36 | 67.3 |
| 5/1/2015 13:45:06 | 44.95 | 39.85 | 1,244 | 0.29 | 0.38 | 68.0 |
| 5/1/2015 13:45:06 | 45.28 | 40.18 | 1,244 | 0.29 | 0.38 | 68.0 |
| 5/1/2015 13:45:06 | 45.60 | 40.50 | 1,223 | 0.28 | 0.37 | 66.9 |
| 5/1/2015 13:45:07 | 45.93 | 40.83 | 1,223 | 0.28 | 0.37 | 66.9 |
| 5/1/2015 13:45:07 | 46.26 | 41.16 | 1,226 | 0.28 | 0.38 | 67.0 |
| 5/1/2015 13:45:07 | 46.59 | 41.49 | 1,226 | 0.28 | 0.38 | 67.0 |
| 5/1/2015 13:45:07 | 46.92 | 41.82 | 1,226 | 0.28 | 0.36 | 67.0 |
| 5/1/2015 13:45:08 | 47.24 | 42.14 | 1,226 | 0.28 | 0.36 | 67.0 |
| 5/1/2015 13:45:08 | 47.57 | 42.47 | 1,215 | 0.29 | 0.37 | 66.4 |
| 5/1/2015 13:45:08 | 47.90 | 42.80 | 1,215 | 0.29 | 0.36 | 66.4 |
| 5/1/2015 13:45:09 | 48.23 | 43.13 | 1,215 | 0.29 | 0.36 | 66.4 |
| 5/1/2015 13:45:09 | 48.56 | 43.46 | 1,215 | 0.29 | 0.36 | 66.4 |
| 5/1/2015 13:45:10 | 48.88 | 43.78 | 1,215 | 0.29 | 0.36 | 66.4 |
| 5/1/2015 13:45:10 | 49.21 | 44.11 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 13:45:10 | 49.54 | 44.44 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 13:45:10 | 49.87 | 44.77 | 1,220 | 0.29 | 0.35 | 66.7 |
| 5/1/2015 13:45:11 | 50.20 | 45.10 | 1,220 | 0.29 | 0.35 | 66.7 |
| 5/1/2015 13:45:11 | 50.53 | 45.43 | 1,220 | 0.29 | 0.38 | 66.7 |
| 5/1/2015 13:45:11 | 50.85 | 45.75 | 1,241 | 0.29 | 0.37 | 67.9 |
| 5/1/2015 13:45:12 | 51.18 | 46.08 | 1,241 | 0.29 | 0.37 | 67.9 |
| 5/1/2015 13:45:12 | 51.51 | 46.41 | 1,229 | 0.26 | 0.37 | 67.2 |
| 5/1/2015 13:45:12 | 51.84 | 46.74 | 1,229 | 0.26 | 0.37 | 67.2 |
| 5/1/2015 13:45:12 | 52.17 | 47.07 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 13:45:13 | 52.49 | 47.39 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 13:45:13 | 52.82 | 47.72 | 1,228 | 0.29 | 0.38 | 67.2 |
| 5/1/2015 13:45:13 | 53.15 | 48.05 | 1,226 | 0.27 | 0.42 | 67.0 |
| 5/1/2015 13:45:14 | 53.48 | 48.38 | 1,226 | 0.27 | 0.42 | 67.0 |
| 5/1/2015 13:45:35 | 53.81 | 48.71 | 0 | 2.29 | 0.40 | 0.0 |
| 5/1/2015 13:45:36 | 54.13 | 49.03 | 162 | 3.35 | 0.46 | 8.8 |
| 5/1/2015 13:45:46 | 54.46 | 49.36 | 13 | 3.71 | 0.46 | 0.7 |
| 5/1/2015 13:45:49 | 54.79 | 49.69 | 119 | 3.83 | 0.45 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:45:51 | 55.12 | 50.02 | 136 | 3.58 | 0.45 | 7.4 |
| 5/1/2015 | 13:45:53 | 55.45 | 50.35 | 176 | 3.56 | 0.46 | 9.6 |
| 5/1/2015 | 13:45:55 | 55.77 | 50.67 | 223 | 3.58 | 0.45 | 12.2 |
| 5/1/2015 | 13:45:56 | 56.10 | 51.00 | 261 | 3.49 | 0.44 | 14.3 |
| 5/1/2015 | 13:45:57 | 56.43 | 51.33 | 276 | 3.47 | 0.44 | 15.1 |
| 5/1/2015 | 13:45:58 | 56.76 | 51.66 | 305 | 3.73 | 0.44 | 16.7 |
| 5/1/2015 | 13:45:59 | 57.09 | 51.99 | 332 | 3.02 | 0.42 | 18.2 |
| 5/1/2015 | 13:45:59 | 57.41 | 52.31 | 375 | 3.35 | 0.42 | 20.5 |
| 5/1/2015 | 13:46:00 | 57.74 | 52.64 | 471 | 3.39 | 0.44 | 25.7 |
| 5/1/2015 | 13:46:01 | 58.07 | 52.97 | 497 | 3.16 | 0.43 | 27.2 |
| 5/1/2015 | 13:46:02 | 58.40 | 53.30 | 494 | 3.41 | 0.44 | 27.0 |
| 5/1/2015 | 13:46:04 | 58.73 | 53.63 | 411 | 6.62 | 0.44 | 22.5 |
| 5/1/2015 | 13:46:09 | 59.06 | 53.96 | 3 | 4.53 | 0.47 | 0.2 |
| 5/1/2015 | 13:46:11 | 59.38 | 54.28 | 125 | 4.68 | 0.45 | 6.8 |
| 5/1/2015 | 13:46:17 | 59.71 | 54.61 | 37 | 4.36 | 0.45 | 2.0 |
| 5/1/2015 | 13:46:19 | 60.04 | 54.94 | 149 | 7.89 | 0.45 | 8.1 |
| 5/1/2015 | 13:46:22 | 60.30 | 55.20 | 124 | 4.74 | 0.39 | 6.8 |

## L14 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:38:34

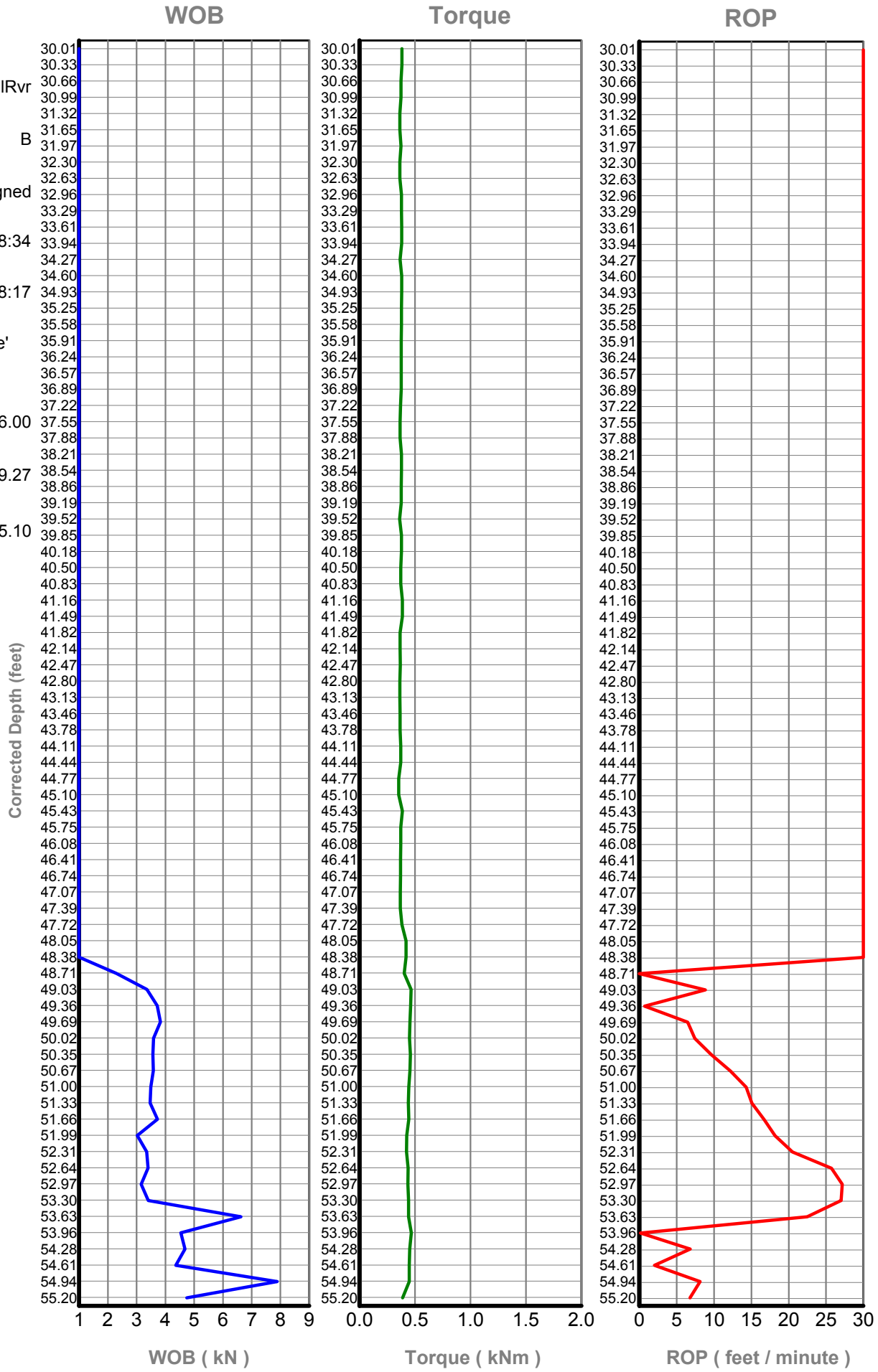
**End Date:**
5/1/2015 13:48:17

**Operator Note:**
'5.1 5.2 b Auto Complete'

**Northing:**
359,976.00

**Easting:**
241,969.27

**Tide (feet):**
5.10



## Hole: L140 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:14:02 | 35.76 | 30.06 | 1,113 | 0.34 | 0.38 | 60.8 |
| 4/30/2015 21:14:02 | 36.09 | 30.39 | 1,086 | 0.34 | 0.38 | 59.4 |
| 4/30/2015 21:14:03 | 36.42 | 30.72 | 1,087 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 21:14:03 | 36.75 | 31.05 | 1,087 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 21:14:03 | 37.07 | 31.37 | 1,103 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 21:14:04 | 37.40 | 31.70 | 1,102 | 0.33 | 0.38 | 60.2 |
| 4/30/2015 21:14:04 | 37.73 | 32.03 | 1,102 | 0.33 | 0.38 | 60.2 |
| 4/30/2015 21:14:04 | 38.06 | 32.36 | 1,080 | 0.33 | 0.38 | 59.1 |
| 4/30/2015 21:14:05 | 38.39 | 32.69 | 1,080 | 0.33 | 0.38 | 59.1 |
| 4/30/2015 21:14:05 | 38.71 | 33.01 | 1,100 | 0.33 | 0.38 | 60.2 |
| 4/30/2015 21:14:05 | 39.04 | 33.34 | 1,103 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 21:14:06 | 39.37 | 33.67 | 1,103 | 0.34 | 0.38 | 60.3 |
| 4/30/2015 21:14:06 | 39.70 | 34.00 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 21:14:06 | 40.03 | 34.33 | 1,086 | 0.33 | 0.38 | 59.4 |
| 4/30/2015 21:14:06 | 40.35 | 34.65 | 1,086 | 0.34 | 0.38 | 59.4 |
| 4/30/2015 21:14:07 | 40.68 | 34.98 | 1,095 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 21:14:07 | 41.01 | 35.31 | 1,095 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 21:14:07 | 41.34 | 35.64 | 1,096 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 21:14:08 | 41.67 | 35.97 | 1,092 | 0.34 | 0.38 | 59.7 |
| 4/30/2015 21:14:08 | 41.99 | 36.29 | 1,092 | 0.34 | 0.38 | 59.7 |
| 4/30/2015 21:14:08 | 42.32 | 36.62 | 1,089 | 0.33 | 0.38 | 59.6 |
| 4/30/2015 21:14:09 | 42.65 | 36.95 | 1,089 | 0.33 | 0.38 | 59.6 |
| 4/30/2015 21:14:09 | 42.98 | 37.28 | 1,089 | 0.33 | 0.38 | 59.6 |
| 4/30/2015 21:14:09 | 43.31 | 37.61 | 1,108 | 0.33 | 0.39 | 60.6 |
| 4/30/2015 21:14:10 | 43.64 | 37.94 | 1,108 | 0.33 | 0.39 | 60.6 |
| 4/30/2015 21:14:10 | 43.96 | 38.26 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 21:14:10 | 44.29 | 38.59 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 21:14:10 | 44.62 | 38.92 | 1,085 | 0.33 | 0.38 | 59.3 |
| 4/30/2015 21:14:11 | 44.95 | 39.25 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 21:14:11 | 45.28 | 39.58 | 1,092 | 0.33 | 0.38 | 59.7 |
| 4/30/2015 21:14:11 | 45.60 | 39.90 | 1,102 | 0.33 | 0.38 | 60.3 |
| 4/30/2015 21:14:12 | 45.93 | 40.23 | 1,102 | 0.33 | 0.39 | 60.3 |
| 4/30/2015 21:14:13 | 46.26 | 40.56 | 1,102 | 0.33 | 0.39 | 60.3 |
| 4/30/2015 21:14:13 | 46.59 | 40.89 | 1,103 | 0.30 | 0.38 | 60.3 |
| 4/30/2015 21:14:13 | 46.92 | 41.22 | 1,098 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 21:14:14 | 47.24 | 41.54 | 1,098 | 0.33 | 0.38 | 60.0 |
| 4/30/2015 21:14:14 | 47.57 | 41.87 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 21:14:14 | 47.90 | 42.20 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 21:14:14 | 48.23 | 42.53 | 1,104 | 0.34 | 0.38 | 60.4 |
| 4/30/2015 21:14:15 | 48.56 | 42.86 | 1,104 | 0.33 | 0.39 | 60.4 |
| 4/30/2015 21:14:15 | 48.88 | 43.18 | 1,104 | 0.33 | 0.39 | 60.4 |
| 4/30/2015 21:14:15 | 49.21 | 43.51 | 1,118 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:14:16 | 49.54 | 43.84 | 1,118 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:14:16 | 49.87 | 44.17 | 1,117 | 0.34 | 0.40 | 61.1 |
| 4/30/2015 21:14:16 | 50.20 | 44.50 | 1,087 | 0.36 | 0.38 | 59.5 |
| 4/30/2015 21:14:17 | 50.53 | 44.83 | 1,087 | 0.36 | 0.38 | 59.5 |
| 4/30/2015 21:14:17 | 50.85 | 45.15 | 1,087 | 0.33 | 0.39 | 59.5 |
| 4/30/2015 21:14:17 | 51.18 | 45.48 | 1,095 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 21:14:18 | 51.51 | 45.81 | 1,095 | 0.33 | 0.38 | 59.9 |
| 4/30/2015 21:14:18 | 51.84 | 46.14 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 21:14:18 | 52.17 | 46.47 | 1,095 | 0.33 | 0.39 | 59.9 |
| 4/30/2015 21:14:18 | 52.49 | 46.79 | 1,077 | 0.31 | 0.39 | 58.9 |
| 4/30/2015 21:14:19 | 52.82 | 47.12 | 1,077 | 0.34 | 0.39 | 58.9 |
| 4/30/2015 21:14:19 | 53.15 | 47.45 | 1,077 | 0.34 | 0.39 | 58.9 |
| 4/30/2015 21:14:19 | 53.48 | 47.78 | 1,072 | 0.34 | 0.39 | 58.6 |
| 4/30/2015 21:14:20 | 53.81 | 48.11 | 1,106 | 0.31 | 0.42 | 60.5 |
| 4/30/2015 21:14:24 | 54.13 | 48.43 | 75 | 3.75 | 0.46 | 4.1 |
| 4/30/2015 21:14:27 | 54.46 | 48.76 | 114 | 3.81 | 0.48 | 6.2 |
| 4/30/2015 21:14:31 | 54.79 | 49.09 | 12 | 4.46 | 0.44 | 0.6 |
| 4/30/2015 21:14:32 | 55.12 | 49.42 | 98 | 4.35 | 0.44 | 5.4 |
| 4/30/2015 21:14:36 | 55.45 | 49.75 | 8 | 4.59 | 0.43 | 0.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:14:37 | 55.77 | 50.07 | 67 | 3.90 | 0.45 | 3.7 |
| 4/30/2015 | 21:14:39 | 56.10 | 50.40 | 157 | 4.41 | 0.48 | 8.6 |
| 4/30/2015 | 21:14:40 | 56.43 | 50.73 | 281 | 3.62 | 0.43 | 15.3 |
| 4/30/2015 | 21:14:41 | 56.76 | 51.06 | 310 | 3.66 | 0.45 | 17.0 |
| 4/30/2015 | 21:14:43 | 57.09 | 51.39 | 226 | 5.04 | 0.47 | 12.4 |
| 4/30/2015 | 21:14:45 | 57.41 | 51.71 | 145 | 3.21 | 0.43 | 7.9 |
| 4/30/2015 | 21:14:46 | 57.74 | 52.04 | 289 | 4.57 | 0.47 | 15.8 |
| 4/30/2015 | 21:14:47 | 58.07 | 52.37 | 273 | 3.58 | 0.43 | 14.9 |
| 4/30/2015 | 21:14:48 | 58.40 | 52.70 | 259 | 3.71 | 0.45 | 14.2 |
| 4/30/2015 | 21:14:50 | 58.73 | 53.03 | 352 | 4.65 | 0.46 | 19.2 |
| 4/30/2015 | 21:14:52 | 59.06 | 53.36 | 191 | 4.30 | 0.47 | 10.4 |
| 4/30/2015 | 21:14:53 | 59.38 | 53.68 | 175 | 4.05 | 0.45 | 9.6 |
| 4/30/2015 | 21:14:56 | 59.71 | 54.01 | 205 | 4.11 | 0.47 | 11.2 |
| 4/30/2015 | 21:14:57 | 60.04 | 54.34 | 217 | 3.88 | 0.46 | 11.9 |
| 4/30/2015 | 21:14:59 | 60.33 | 54.63 | 165 | 4.71 | 0.48 | 9.0 |

## L140 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:12:27

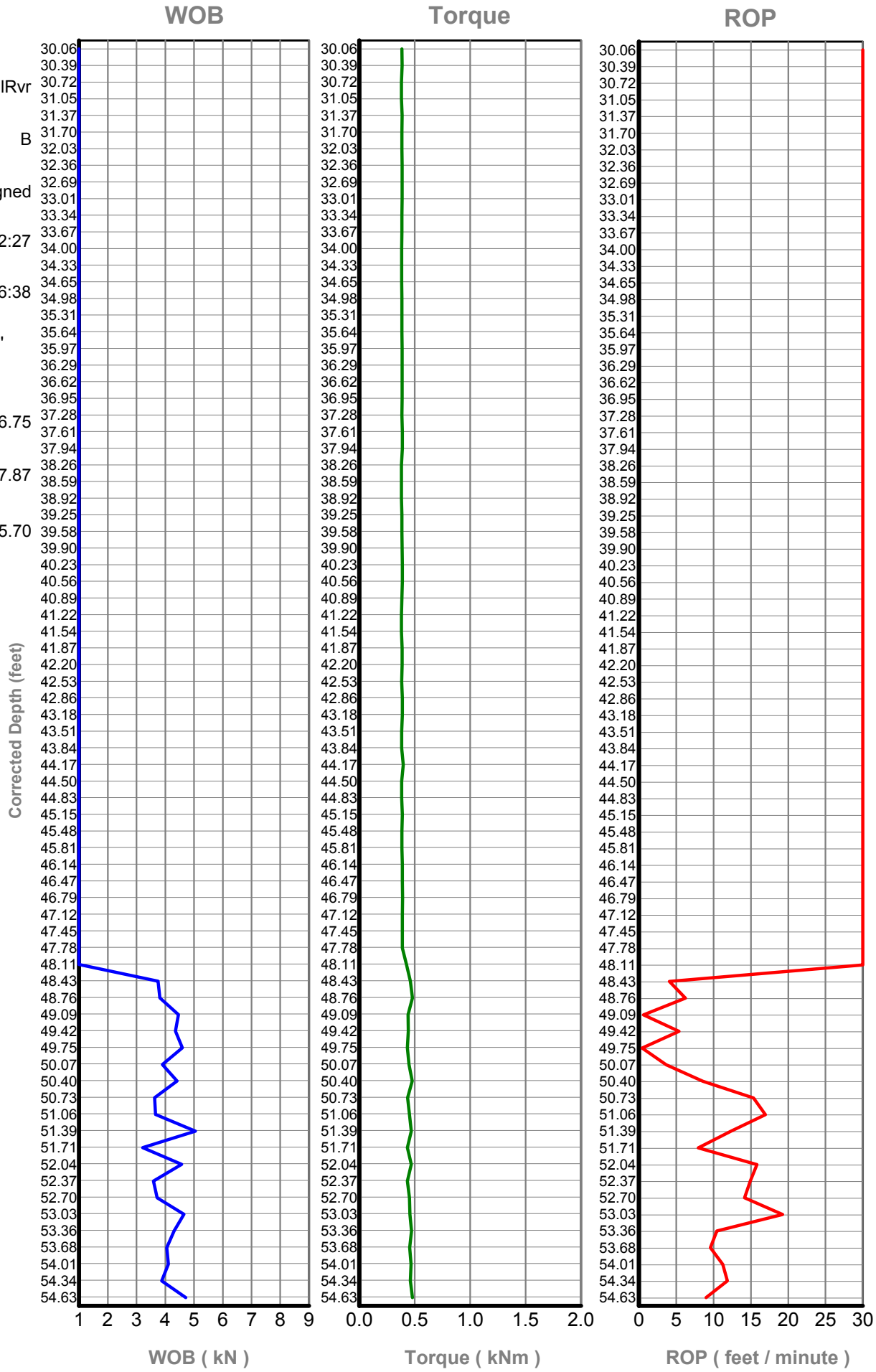
**End Date:**
4/30/2015 21:16:38

**Operator Note:**
'5.7 5.3b Auto Complete'

**Northing:**
360,256.75

**Easting:**
243,127.87

**Tide (feet):**
5.70



## Hole: L141 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:12:22 | 35.76 | 30.06 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 21:12:22 | 36.09 | 30.39 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:23 | 36.42 | 30.72 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:23 | 36.75 | 31.05 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:23 | 37.07 | 31.37 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:24 | 37.40 | 31.70 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:24 | 37.73 | 32.03 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:24 | 38.06 | 32.36 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:25 | 38.39 | 32.69 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:25 | 38.71 | 33.01 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:25 | 39.04 | 33.34 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 21:12:26 | 39.37 | 33.67 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 21:12:26 | 39.70 | 34.00 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:26 | 40.03 | 34.33 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:27 | 40.35 | 34.65 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:27 | 40.68 | 34.98 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:28 | 41.01 | 35.31 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:28 | 41.34 | 35.64 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:28 | 41.67 | 35.97 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:29 | 41.99 | 36.29 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:29 | 42.32 | 36.62 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:29 | 42.65 | 36.95 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 21:12:30 | 42.98 | 37.28 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:30 | 43.31 | 37.61 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:30 | 43.64 | 37.94 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 21:12:31 | 43.96 | 38.26 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:31 | 44.29 | 38.59 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:31 | 44.62 | 38.92 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:32 | 44.95 | 39.25 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 21:12:32 | 45.28 | 39.58 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 21:12:32 | 45.60 | 39.90 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 21:12:33 | 45.93 | 40.23 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 21:12:33 | 46.26 | 40.56 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 21:12:33 | 46.59 | 40.89 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 21:12:34 | 46.92 | 41.22 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:12:34 | 47.24 | 41.54 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:12:34 | 47.57 | 41.87 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:35 | 47.90 | 42.20 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:35 | 48.23 | 42.53 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:35 | 48.56 | 42.86 | 1,006 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 21:12:36 | 48.88 | 43.18 | 1,022 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 21:12:36 | 49.21 | 43.51 | 1,022 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 21:12:36 | 49.54 | 43.84 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:37 | 49.87 | 44.17 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:37 | 50.20 | 44.50 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:37 | 50.53 | 44.83 | 1,019 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:38 | 50.85 | 45.15 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 21:12:38 | 51.18 | 45.48 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:39 | 51.51 | 45.81 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:12:39 | 51.84 | 46.14 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:12:40 | 52.17 | 46.47 | 1,001 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 21:12:40 | 52.49 | 46.79 | 1,001 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 21:12:40 | 52.82 | 47.12 | 1,001 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 21:12:41 | 53.15 | 47.45 | 1,005 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 21:12:41 | 53.48 | 47.78 | 1,005 | 1.14 | 0.29 | 55.0 |
| 4/30/2015 21:12:41 | 53.81 | 48.11 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:12:42 | 54.13 | 48.43 | 1,002 | 1.14 | 0.29 | 54.8 |
| 4/30/2015 21:12:42 | 54.46 | 48.76 | 1,002 | 1.14 | 0.29 | 54.8 |
| 4/30/2015 21:12:55 | 54.79 | 49.09 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 21:12:56 | 55.12 | 49.42 | 181 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 21:12:57 | 55.45 | 49.75 | 361 | 1.14 | 0.29 | 19.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/30/2015 21:13:04 | 55.77 | 50.07 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 21:13:09 | 56.10 | 50.40 | 82 | 1.14 | 0.29 | 4.5 |
| 4/30/2015 21:13:16 | 56.43 | 50.73 | 46 | 1.14 | 0.29 | 2.5 |
| 4/30/2015 21:13:24 | 56.76 | 51.06 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 21:13:32 | 57.09 | 51.39 | 52 | 1.14 | 0.29 | 2.9 |
| 4/30/2015 21:13:35 | 57.32 | 51.62 | 76 | 1.14 | 0.29 | 4.1 |

## L141 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:11:18

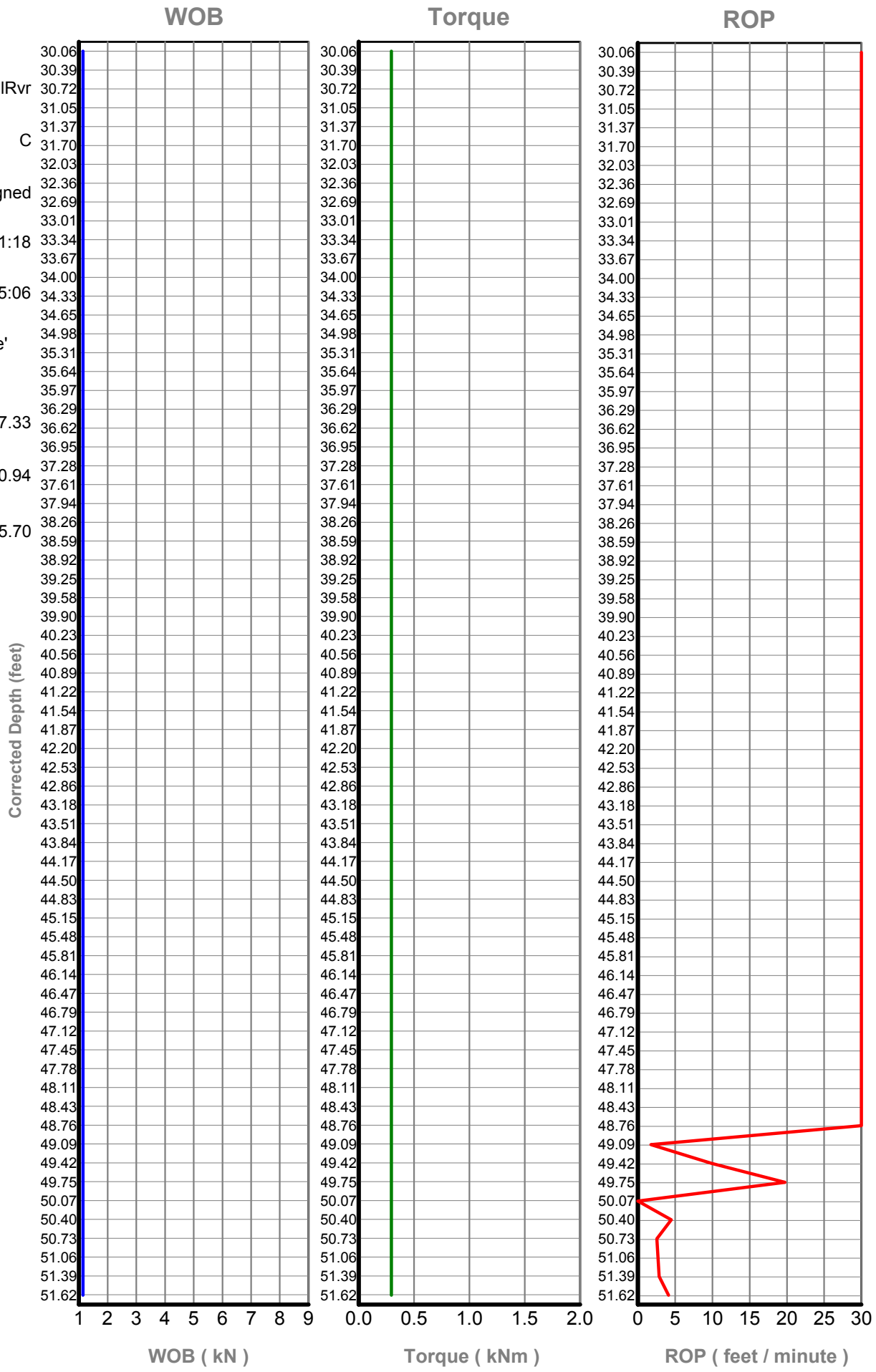
**End Date:**
4/30/2015 21:15:06

**Operator Note:**
'5.7 5.3 c Auto Complete'

**Northing:**
360,297.33

**Easting:**
243,190.94

**Tide (feet):**
5.70



## Hole: L142 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:03:40 | 31.17 | 30.07 | 913 | 1.19 | 0.16 | 49.9 |
| 4/30/2015 18:03:41 | 31.50 | 30.40 | 913 | 1.19 | 0.16 | 49.9 |
| 4/30/2015 18:03:41 | 31.82 | 30.72 | 908 | 1.19 | 0.16 | 49.7 |
| 4/30/2015 18:03:41 | 32.15 | 31.05 | 916 | 1.17 | 0.16 | 50.1 |
| 4/30/2015 18:03:42 | 32.48 | 31.38 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 18:03:42 | 32.81 | 31.71 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 18:03:42 | 33.14 | 32.04 | 916 | 1.20 | 0.16 | 50.1 |
| 4/30/2015 18:03:43 | 33.46 | 32.36 | 913 | 1.19 | 0.16 | 50.0 |
| 4/30/2015 18:03:43 | 33.79 | 32.69 | 916 | 1.19 | 0.16 | 50.1 |
| 4/30/2015 18:03:44 | 34.12 | 33.02 | 916 | 1.19 | 0.16 | 50.1 |
| 4/30/2015 18:03:44 | 34.45 | 33.35 | 913 | 1.20 | 0.16 | 49.9 |
| 4/30/2015 18:03:45 | 34.78 | 33.68 | 913 | 1.19 | 0.16 | 49.9 |
| 4/30/2015 18:03:45 | 35.11 | 34.01 | 900 | 1.19 | 0.16 | 49.2 |
| 4/30/2015 18:03:46 | 35.43 | 34.33 | 900 | 1.19 | 0.16 | 49.2 |
| 4/30/2015 18:03:46 | 35.76 | 34.66 | 914 | 1.19 | 0.16 | 50.0 |
| 4/30/2015 18:03:46 | 36.09 | 34.99 | 911 | 1.19 | 0.16 | 49.8 |
| 4/30/2015 18:03:47 | 36.42 | 35.32 | 909 | 1.20 | 0.16 | 49.7 |
| 4/30/2015 18:03:47 | 36.75 | 35.65 | 909 | 1.20 | 0.16 | 49.7 |
| 4/30/2015 18:03:47 | 37.07 | 35.97 | 906 | 1.20 | 0.16 | 49.5 |
| 4/30/2015 18:03:48 | 37.40 | 36.30 | 914 | 1.20 | 0.16 | 50.0 |
| 4/30/2015 18:03:48 | 37.73 | 36.63 | 908 | 1.07 | 0.16 | 49.6 |
| 4/30/2015 18:03:49 | 38.06 | 36.96 | 899 | 1.19 | 0.16 | 49.2 |
| 4/30/2015 18:03:49 | 38.39 | 37.29 | 899 | 1.19 | 0.16 | 49.2 |
| 4/30/2015 18:03:49 | 38.71 | 37.61 | 896 | 1.19 | 0.16 | 49.0 |
| 4/30/2015 18:03:50 | 39.04 | 37.94 | 908 | 1.20 | 0.16 | 49.6 |
| 4/30/2015 18:03:50 | 39.37 | 38.27 | 908 | 1.20 | 0.16 | 49.6 |
| 4/30/2015 18:03:51 | 39.70 | 38.60 | 908 | 1.20 | 0.16 | 49.6 |
| 4/30/2015 18:03:51 | 40.03 | 38.93 | 905 | 1.21 | 0.16 | 49.5 |
| 4/30/2015 18:03:51 | 40.35 | 39.25 | 888 | 1.12 | 0.16 | 48.6 |
| 4/30/2015 18:03:52 | 40.68 | 39.58 | 885 | 1.15 | 0.16 | 48.4 |
| 4/30/2015 18:03:52 | 41.01 | 39.91 | 879 | 1.20 | 0.16 | 48.1 |
| 4/30/2015 18:03:53 | 41.34 | 40.24 | 879 | 1.20 | 0.16 | 48.1 |
| 4/30/2015 18:03:53 | 41.67 | 40.57 | 860 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 18:03:53 | 41.99 | 40.89 | 859 | 1.19 | 0.15 | 47.0 |
| 4/30/2015 18:03:54 | 42.32 | 41.22 | 867 | 1.20 | 0.16 | 47.4 |
| 4/30/2015 18:03:55 | 42.65 | 41.55 | 867 | 1.20 | 0.16 | 47.4 |
| 4/30/2015 18:03:55 | 42.98 | 41.88 | 870 | 1.19 | 0.16 | 47.6 |
| 4/30/2015 18:03:55 | 43.31 | 42.21 | 873 | 1.19 | 0.16 | 47.8 |
| 4/30/2015 18:03:56 | 43.64 | 42.54 | 870 | 1.18 | 0.16 | 47.6 |
| 4/30/2015 18:03:56 | 43.96 | 42.86 | 873 | 1.20 | 0.16 | 47.8 |
| 4/30/2015 18:03:57 | 44.29 | 43.19 | 873 | 1.20 | 0.16 | 47.8 |
| 4/30/2015 18:03:57 | 44.62 | 43.52 | 868 | 1.21 | 0.16 | 47.4 |
| 4/30/2015 18:03:57 | 44.95 | 43.85 | 865 | 1.21 | 0.16 | 47.3 |
| 4/30/2015 18:03:58 | 45.28 | 44.18 | 859 | 1.21 | 0.16 | 47.0 |
| 4/30/2015 18:03:58 | 45.60 | 44.50 | 867 | 1.19 | 0.16 | 47.4 |
| 4/30/2015 18:03:59 | 45.93 | 44.83 | 867 | 1.19 | 0.16 | 47.4 |
| 4/30/2015 18:03:59 | 46.26 | 45.16 | 856 | 1.17 | 0.16 | 46.8 |
| 4/30/2015 18:03:59 | 46.59 | 45.49 | 856 | 1.21 | 0.17 | 46.8 |
| 4/30/2015 18:04:00 | 46.92 | 45.82 | 853 | 1.21 | 0.16 | 46.6 |
| 4/30/2015 18:04:00 | 47.24 | 46.14 | 850 | 1.20 | 0.16 | 46.5 |
| 4/30/2015 18:04:01 | 47.57 | 46.47 | 850 | 1.20 | 0.16 | 46.5 |
| 4/30/2015 18:04:01 | 47.90 | 46.80 | 847 | 1.20 | 0.16 | 46.3 |
| 4/30/2015 18:04:01 | 48.23 | 47.13 | 849 | 1.21 | 0.16 | 46.4 |
| 4/30/2015 18:04:02 | 48.56 | 47.46 | 838 | 1.19 | 0.16 | 45.8 |
| 4/30/2015 18:04:02 | 48.88 | 47.78 | 841 | 1.21 | 0.16 | 46.0 |
| 4/30/2015 18:04:03 | 49.21 | 48.11 | 841 | 1.20 | 0.16 | 46.0 |
| 4/30/2015 18:04:03 | 49.54 | 48.44 | 841 | 1.20 | 0.16 | 46.0 |
| 4/30/2015 18:04:03 | 49.87 | 48.77 | 830 | 1.21 | 0.16 | 45.4 |
| 4/30/2015 18:04:04 | 50.20 | 49.10 | 822 | 1.26 | 0.16 | 44.9 |
| 4/30/2015 18:04:10 | 50.53 | 49.43 | 15 | 1.19 | 1.12 | 0.8 |
| 4/30/2015 18:04:15 | 50.85 | 49.75 | 23 | 1.18 | 1.11 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:04:18 | 51.18 | 50.08 | 115 | 1.18 | 1.34 | 6.3 |
| 4/30/2015 | 18:04:22 | 51.51 | 50.41 | 85 | 1.21 | 1.08 | 4.6 |
| 4/30/2015 | 18:04:25 | 51.84 | 50.74 | 122 | 1.11 | 1.18 | 6.7 |
| 4/30/2015 | 18:04:26 | 52.17 | 51.07 | 211 | 1.13 | 1.19 | 11.6 |
| 4/30/2015 | 18:04:27 | 52.49 | 51.39 | 273 | 1.17 | 1.04 | 14.9 |
| 4/30/2015 | 18:04:28 | 52.82 | 51.72 | 372 | 1.15 | 1.30 | 20.3 |
| 4/30/2015 | 18:04:29 | 53.15 | 52.05 | 330 | 1.14 | 1.03 | 18.1 |
| 4/30/2015 | 18:04:30 | 53.48 | 52.38 | 318 | 1.14 | 1.45 | 17.4 |
| 4/30/2015 | 18:04:31 | 53.81 | 52.71 | 348 | 1.20 | 1.11 | 19.0 |
| 4/30/2015 | 18:04:33 | 54.13 | 53.03 | 247 | 1.18 | 1.30 | 13.5 |
| 4/30/2015 | 18:04:34 | 54.46 | 53.36 | 200 | 1.22 | 1.36 | 11.0 |
| 4/30/2015 | 18:04:35 | 54.79 | 53.69 | 259 | 1.11 | 0.83 | 14.1 |
| 4/30/2015 | 18:04:37 | 55.12 | 54.02 | 347 | 1.11 | 0.74 | 19.0 |
| 4/30/2015 | 18:04:37 | 55.45 | 54.35 | 403 | 1.13 | 0.74 | 22.0 |
| 4/30/2015 | 18:04:38 | 55.77 | 54.67 | 454 | 1.12 | 0.73 | 24.8 |
| 4/30/2015 | 18:04:38 | 56.10 | 55.00 | 503 | 1.12 | 0.73 | 27.5 |
| 4/30/2015 | 18:04:39 | 56.26 | 55.16 | 507 | 0.73 | 0.82 | 27.7 |

## L142 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:02:04

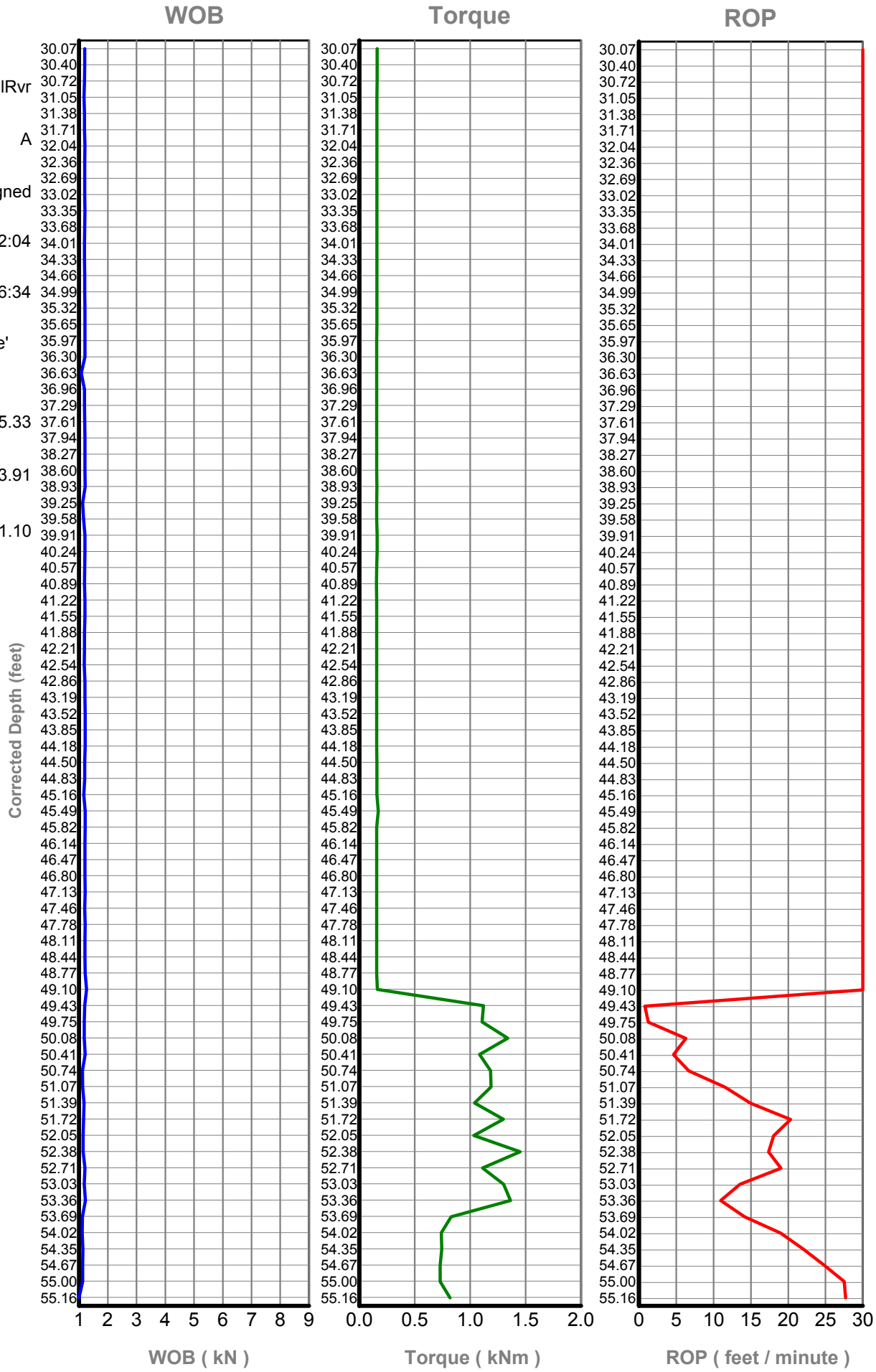
**End Date:**
4/30/2015 18:06:34

**Operator Note:**
'1.1 1.0 a Auto Complete'

**Northing:**
360,335.33

**Easting:**
243,253.91

**Tide (feet):**
1.10



## Hole: L143 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:03:37 | 31.17 | 30.07 | 1,197 | 0.29 | 0.38 | 65.4 |
| 4/30/2015 18:03:37 | 31.50 | 30.40 | 1,189 | 0.29 | 0.38 | 65.0 |
| 4/30/2015 18:03:38 | 31.82 | 30.72 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 18:03:38 | 32.15 | 31.05 | 1,185 | 0.29 | 0.37 | 64.8 |
| 4/30/2015 18:03:38 | 32.48 | 31.38 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 18:03:38 | 32.81 | 31.71 | 1,172 | 0.30 | 0.37 | 64.1 |
| 4/30/2015 18:03:39 | 33.14 | 32.04 | 1,172 | 0.30 | 0.38 | 64.1 |
| 4/30/2015 18:03:39 | 33.46 | 32.36 | 1,172 | 0.30 | 0.38 | 64.1 |
| 4/30/2015 18:03:39 | 33.79 | 32.69 | 1,178 | 0.29 | 0.36 | 64.4 |
| 4/30/2015 18:03:40 | 34.12 | 33.02 | 1,171 | 0.29 | 0.37 | 64.1 |
| 4/30/2015 18:03:40 | 34.45 | 33.35 | 1,171 | 0.29 | 0.37 | 64.1 |
| 4/30/2015 18:03:40 | 34.78 | 33.68 | 1,188 | 0.29 | 0.38 | 65.0 |
| 4/30/2015 18:03:41 | 35.11 | 34.01 | 1,188 | 0.29 | 0.38 | 65.0 |
| 4/30/2015 18:03:41 | 35.43 | 34.33 | 1,189 | 0.29 | 0.38 | 65.0 |
| 4/30/2015 18:03:41 | 35.76 | 34.66 | 1,189 | 0.29 | 0.38 | 65.0 |
| 4/30/2015 18:03:41 | 36.09 | 34.99 | 1,204 | 0.39 | 0.39 | 65.9 |
| 4/30/2015 18:03:42 | 36.42 | 35.32 | 1,177 | 0.41 | 0.40 | 64.3 |
| 4/30/2015 18:03:42 | 36.75 | 35.65 | 1,177 | 0.41 | 0.40 | 64.3 |
| 4/30/2015 18:03:42 | 37.07 | 35.97 | 1,177 | 0.41 | 0.41 | 64.3 |
| 4/30/2015 18:03:43 | 37.40 | 36.30 | 1,177 | 0.41 | 0.41 | 64.3 |
| 4/30/2015 18:03:43 | 37.73 | 36.63 | 1,155 | 0.41 | 0.40 | 63.2 |
| 4/30/2015 18:03:43 | 38.06 | 36.96 | 1,148 | 0.40 | 0.41 | 62.8 |
| 4/30/2015 18:03:44 | 38.39 | 37.29 | 1,148 | 0.40 | 0.41 | 62.8 |
| 4/30/2015 18:03:44 | 38.71 | 37.61 | 1,143 | 0.40 | 0.41 | 62.5 |
| 4/30/2015 18:03:44 | 39.04 | 37.94 | 1,143 | 0.40 | 0.41 | 62.5 |
| 4/30/2015 18:03:44 | 39.37 | 38.27 | 1,162 | 0.41 | 0.41 | 63.5 |
| 4/30/2015 18:03:45 | 39.70 | 38.60 | 1,156 | 0.41 | 0.40 | 63.2 |
| 4/30/2015 18:03:45 | 40.03 | 38.93 | 1,156 | 0.41 | 0.40 | 63.2 |
| 4/30/2015 18:03:45 | 40.35 | 39.25 | 1,163 | 0.40 | 0.41 | 63.6 |
| 4/30/2015 18:03:46 | 40.68 | 39.58 | 1,163 | 0.40 | 0.41 | 63.6 |
| 4/30/2015 18:03:46 | 41.01 | 39.91 | 1,162 | 0.39 | 0.41 | 63.6 |
| 4/30/2015 18:03:46 | 41.34 | 40.24 | 1,169 | 0.39 | 0.40 | 63.9 |
| 4/30/2015 18:03:47 | 41.67 | 40.57 | 1,169 | 0.39 | 0.40 | 63.9 |
| 4/30/2015 18:03:47 | 41.99 | 40.89 | 1,156 | 0.39 | 0.40 | 63.2 |
| 4/30/2015 18:03:47 | 42.32 | 41.22 | 1,156 | 0.39 | 0.40 | 63.2 |
| 4/30/2015 18:03:47 | 42.65 | 41.55 | 1,159 | 0.39 | 0.31 | 63.4 |
| 4/30/2015 18:03:51 | 42.98 | 41.88 | 63 | 0.30 | 0.38 | 3.4 |
| 4/30/2015 18:03:52 | 43.31 | 42.21 | 63 | 0.30 | 0.38 | 3.4 |
| 4/30/2015 18:03:52 | 43.64 | 42.54 | 304 | 0.26 | 0.37 | 16.6 |
| 4/30/2015 18:03:52 | 43.96 | 42.86 | 304 | 0.26 | 0.37 | 16.6 |
| 4/30/2015 18:03:52 | 44.29 | 43.19 | 539 | 0.29 | 0.37 | 29.5 |
| 4/30/2015 18:03:53 | 44.62 | 43.52 | 778 | 0.29 | 0.36 | 42.6 |
| 4/30/2015 18:03:53 | 44.95 | 43.85 | 778 | 0.29 | 0.36 | 42.6 |
| 4/30/2015 18:03:53 | 45.28 | 44.18 | 1,015 | 0.29 | 0.37 | 55.5 |
| 4/30/2015 18:03:54 | 45.60 | 44.50 | 1,015 | 0.29 | 0.37 | 55.5 |
| 4/30/2015 18:03:54 | 45.93 | 44.83 | 1,194 | 0.28 | 0.36 | 65.3 |
| 4/30/2015 18:03:54 | 46.26 | 45.16 | 1,194 | 0.28 | 0.36 | 65.3 |
| 4/30/2015 18:03:54 | 46.59 | 45.49 | 1,192 | 0.29 | 0.36 | 65.2 |
| 4/30/2015 18:03:55 | 46.92 | 45.82 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 18:03:55 | 47.24 | 46.14 | 1,208 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 18:03:55 | 47.57 | 46.47 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 18:03:56 | 47.90 | 46.80 | 1,205 | 0.29 | 0.37 | 65.9 |
| 4/30/2015 18:03:56 | 48.23 | 47.13 | 1,199 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 18:03:56 | 48.56 | 47.46 | 1,199 | 0.29 | 0.37 | 65.5 |
| 4/30/2015 18:03:56 | 48.88 | 47.78 | 1,209 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 18:03:57 | 49.21 | 48.11 | 1,209 | 0.29 | 0.36 | 66.1 |
| 4/30/2015 18:03:57 | 49.54 | 48.44 | 1,209 | 0.28 | 0.38 | 66.1 |
| 4/30/2015 18:03:57 | 49.87 | 48.77 | 1,189 | 0.19 | 0.31 | 65.0 |
| 4/30/2015 18:04:15 | 50.20 | 49.10 | 65 | 2.19 | 0.39 | 3.5 |
| 4/30/2015 18:04:15 | 50.53 | 49.43 | 65 | 2.19 | 0.39 | 3.5 |
| 4/30/2015 18:04:15 | 50.85 | 49.75 | 256 | 2.12 | 0.39 | 14.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:04:16 | 51.18 | 50.08 | 450 | 2.13 | 0.39 | 24.6 |
| 4/30/2015 | 18:04:16 | 51.51 | 50.41 | 645 | 2.14 | 0.39 | 35.2 |
| 4/30/2015 | 18:04:17 | 51.84 | 50.74 | 645 | 2.14 | 0.39 | 35.2 |
| 4/30/2015 | 18:04:17 | 52.17 | 51.07 | 830 | 2.15 | 0.47 | 45.4 |
| 4/30/2015 | 18:04:17 | 52.49 | 51.39 | 951 | 2.20 | 0.40 | 52.0 |
| 4/30/2015 | 18:04:18 | 52.82 | 51.72 | 945 | 2.31 | 0.42 | 51.7 |
| 4/30/2015 | 18:04:18 | 53.15 | 52.05 | 871 | 2.35 | 0.44 | 47.6 |
| 4/30/2015 | 18:04:27 | 53.48 | 52.38 | 12 | 3.22 | 0.42 | 0.6 |
| 4/30/2015 | 18:04:28 | 53.81 | 52.71 | 69 | 4.57 | 0.44 | 3.8 |
| 4/30/2015 | 18:04:36 | 54.13 | 53.03 | 83 | 4.64 | 0.42 | 4.5 |
| 4/30/2015 | 18:04:37 | 54.46 | 53.36 | 134 | 4.16 | 0.42 | 7.3 |
| 4/30/2015 | 18:05:13 | 54.79 | 53.69 | 18 | 5.69 | 0.43 | 1.0 |
| 4/30/2015 | 18:05:17 | 55.12 | 54.02 | 0 | 1.87 | 0.38 | 0.0 |
| 4/30/2015 | 18:05:18 | 55.45 | 54.35 | 65 | 1.98 | 0.38 | 3.5 |
| 4/30/2015 | 18:05:18 | 55.77 | 54.67 | 248 | 2.03 | 0.40 | 13.5 |
| 4/30/2015 | 18:05:19 | 56.10 | 55.00 | 419 | 2.23 | 0.41 | 22.9 |
| 4/30/2015 | 18:05:19 | 56.43 | 55.33 | 419 | 2.23 | 0.41 | 22.9 |
| 4/30/2015 | 18:05:20 | 56.76 | 55.66 | 666 | 2.35 | 0.40 | 36.4 |
| 4/30/2015 | 18:05:20 | 57.09 | 55.99 | 718 | 4.39 | 0.41 | 39.2 |
| 4/30/2015 | 18:05:21 | 57.41 | 56.31 | 523 | 2.94 | 0.40 | 28.6 |
| 4/30/2015 | 18:05:22 | 57.74 | 56.64 | 495 | 3.44 | 0.45 | 27.1 |
| 4/30/2015 | 18:05:22 | 57.81 | 56.71 | 495 | 3.44 | 0.45 | 27.1 |

## L143 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:01:30

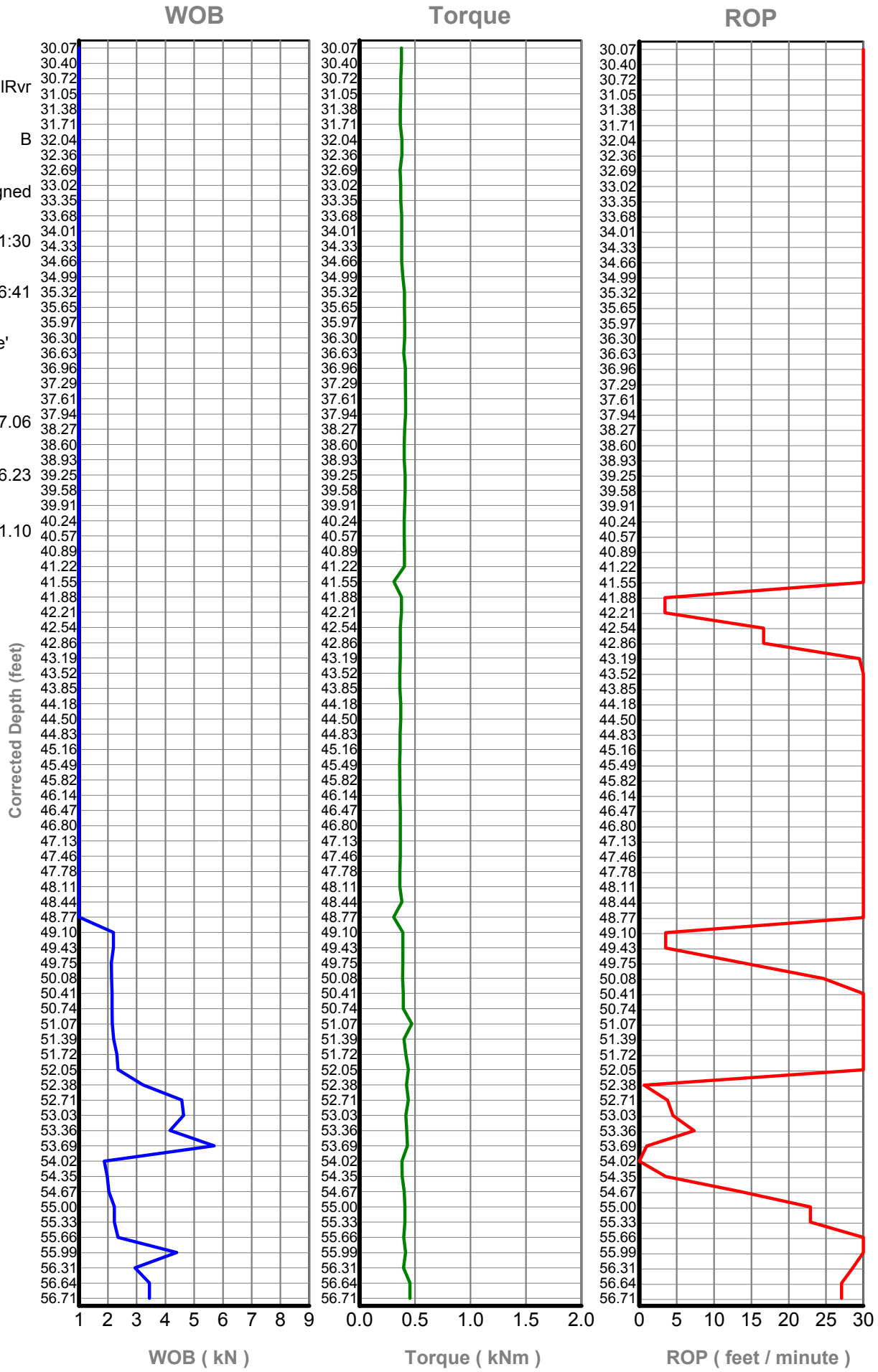
**End Date:**
4/30/2015 18:06:41

**Operator Note:**
'1.1 1.0 b Auto Complete'

**Northing:**
360,377.06

**Easting:**
243,316.23

**Tide (feet):**
1.10



## Hole: L144 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:02:33 | 31.17 | 30.07 | 1,091 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 18:02:33 | 31.50 | 30.40 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:02:34 | 31.82 | 30.72 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:02:34 | 32.15 | 31.05 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 18:02:34 | 32.48 | 31.38 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 18:02:35 | 32.81 | 31.71 | 1,102 | 1.14 | 0.29 | 60.3 |
| 4/30/2015 18:02:35 | 33.14 | 32.04 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:02:35 | 33.46 | 32.36 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:36 | 33.79 | 32.69 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:36 | 34.12 | 33.02 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:36 | 34.45 | 33.35 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:36 | 34.78 | 33.68 | 1,093 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:02:37 | 35.11 | 34.01 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 18:02:37 | 35.43 | 34.33 | 1,087 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 18:02:37 | 35.76 | 34.66 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:38 | 36.09 | 34.99 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:38 | 36.42 | 35.32 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:38 | 36.75 | 35.65 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:39 | 37.07 | 35.97 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:39 | 37.40 | 36.30 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:39 | 37.73 | 36.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:02:40 | 38.06 | 36.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:02:40 | 38.39 | 37.29 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:40 | 38.71 | 37.61 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 18:02:41 | 39.04 | 37.94 | 1,093 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 18:02:41 | 39.37 | 38.27 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:41 | 39.70 | 38.60 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:41 | 40.03 | 38.93 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:02:42 | 40.35 | 39.25 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:43 | 40.68 | 39.58 | 1,096 | 1.14 | 0.29 | 59.9 |
| 4/30/2015 18:02:43 | 41.01 | 39.91 | 1,096 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:02:43 | 41.34 | 40.24 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:02:44 | 41.67 | 40.57 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:02:44 | 41.99 | 40.89 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:02:44 | 42.32 | 41.22 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:02:45 | 42.65 | 41.55 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:02:45 | 42.98 | 41.88 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:45 | 43.31 | 42.21 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:45 | 43.64 | 42.54 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:02:46 | 43.96 | 42.86 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:46 | 44.29 | 43.19 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:46 | 44.62 | 43.52 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:47 | 44.95 | 43.85 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:47 | 45.28 | 44.18 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:47 | 45.60 | 44.50 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:48 | 45.93 | 44.83 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:48 | 46.26 | 45.16 | 1,087 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:48 | 46.59 | 45.49 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:49 | 46.92 | 45.82 | 1,088 | 1.14 | 0.29 | 59.5 |
| 4/30/2015 18:02:49 | 47.24 | 46.14 | 1,081 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:02:49 | 47.57 | 46.47 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 18:02:50 | 47.90 | 46.80 | 1,091 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 18:03:03 | 48.23 | 47.13 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 18:03:05 | 48.56 | 47.46 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 18:03:06 | 48.88 | 47.78 | 235 | 1.14 | 0.29 | 12.9 |
| 4/30/2015 18:03:07 | 49.21 | 48.11 | 392 | 1.14 | 0.29 | 21.4 |
| 4/30/2015 18:03:08 | 49.54 | 48.44 | 303 | 1.14 | 0.29 | 16.6 |
| 4/30/2015 18:03:09 | 49.87 | 48.77 | 323 | 1.14 | 0.29 | 17.7 |
| 4/30/2015 18:03:09 | 50.20 | 49.10 | 340 | 1.14 | 0.29 | 18.6 |
| 4/30/2015 18:03:23 | 50.53 | 49.43 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 18:03:24 | 50.85 | 49.75 | 188 | 1.14 | 0.29 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:03:25 | 51.18 | 50.08 | 277 | 1.14 | 0.29 | 15.1 |
| 4/30/2015 | 18:03:25 | 51.51 | 50.41 | 406 | 1.14 | 0.29 | 22.2 |
| 4/30/2015 | 18:03:38 | 51.84 | 50.74 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 18:03:39 | 52.17 | 51.07 | 61 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 18:03:43 | 52.49 | 51.39 | 116 | 1.14 | 0.29 | 6.3 |
| 4/30/2015 | 18:03:52 | 52.82 | 51.72 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 | 18:04:01 | 53.15 | 52.05 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 | 18:04:09 | 53.48 | 52.38 | 49 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 18:04:16 | 53.81 | 52.71 | 47 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 | 18:04:24 | 54.13 | 53.03 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 | 18:04:28 | 54.30 | 53.20 | 47 | 1.14 | 0.29 | 2.5 |

## L144 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:01:34

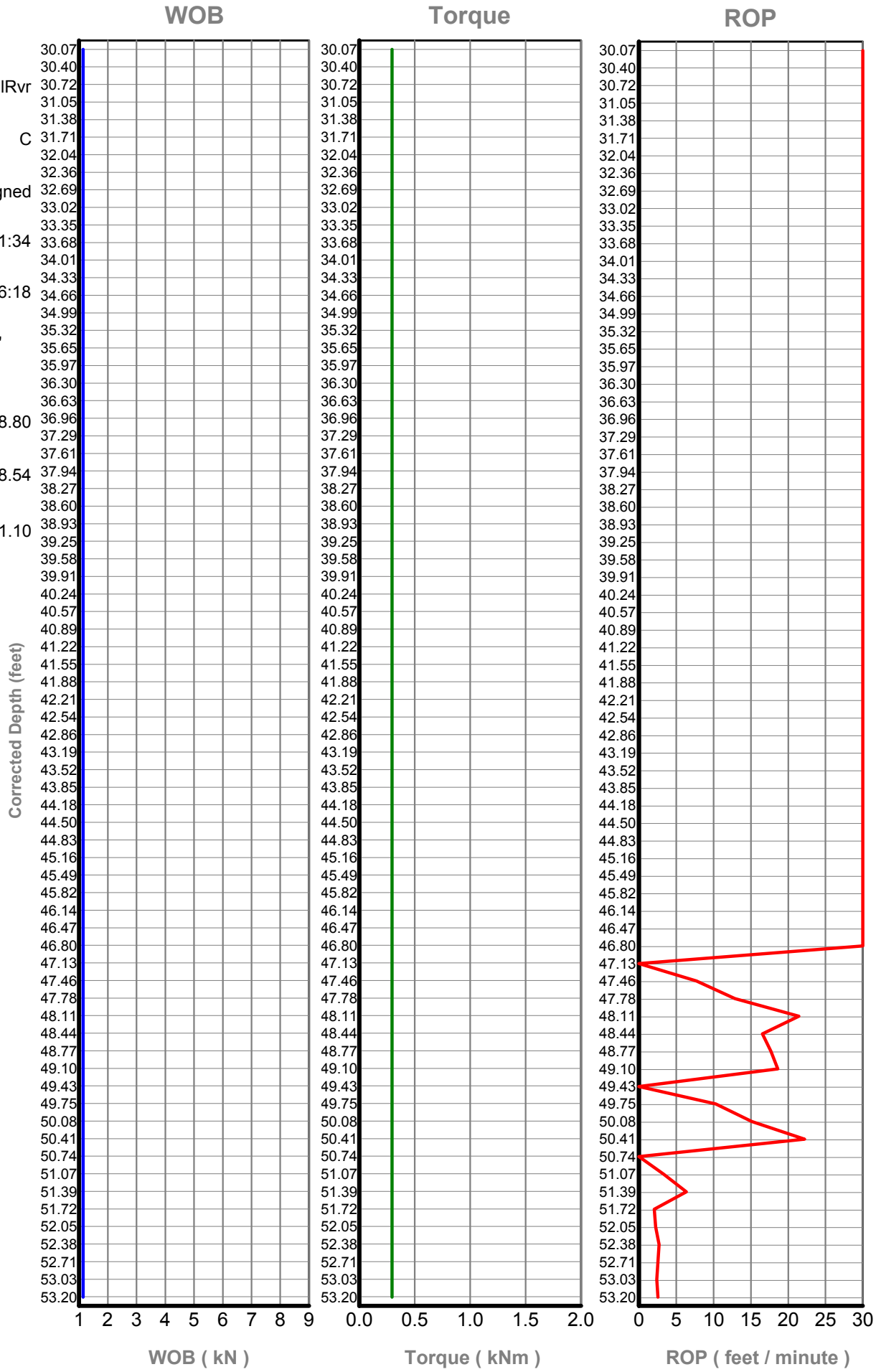
**End Date:**
4/30/2015 18:06:18

**Operator Note:**
'1.1 1. C Auto Complete'

**Northing:**
360,418.80

**Easting:**
243,378.54

**Tide (feet):**
1.10



## Hole: L145 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:48:22 | 36.09 | 30.19 | 1,208 | 1.85 | 0.25 | 66.1 |
| 5/1/2015 21:48:23 | 36.42 | 30.52 | 1,208 | 1.85 | 0.25 | 66.1 |
| 5/1/2015 21:48:23 | 36.75 | 30.85 | 1,213 | 1.82 | 0.25 | 66.3 |
| 5/1/2015 21:48:23 | 37.07 | 31.17 | 1,206 | 1.59 | 0.27 | 65.9 |
| 5/1/2015 21:48:24 | 37.40 | 31.50 | 1,206 | 1.59 | 0.27 | 65.9 |
| 5/1/2015 21:48:24 | 37.73 | 31.83 | 1,188 | 1.44 | 0.27 | 65.0 |
| 5/1/2015 21:48:24 | 38.06 | 32.16 | 1,115 | 1.43 | 0.27 | 61.0 |
| 5/1/2015 21:48:25 | 38.39 | 32.49 | 1,055 | 1.44 | 0.27 | 57.7 |
| 5/1/2015 21:48:25 | 38.71 | 32.81 | 1,055 | 1.44 | 0.27 | 57.7 |
| 5/1/2015 21:48:25 | 39.04 | 33.14 | 985 | 1.45 | 0.27 | 53.9 |
| 5/1/2015 21:48:26 | 39.37 | 33.47 | 924 | 1.45 | 0.27 | 50.5 |
| 5/1/2015 21:48:26 | 39.70 | 33.80 | 876 | 1.46 | 0.27 | 47.9 |
| 5/1/2015 21:48:27 | 40.03 | 34.13 | 876 | 1.46 | 0.27 | 47.9 |
| 5/1/2015 21:48:27 | 40.35 | 34.45 | 875 | 1.45 | 0.27 | 47.9 |
| 5/1/2015 21:48:27 | 40.68 | 34.78 | 867 | 1.45 | 0.27 | 47.4 |
| 5/1/2015 21:48:28 | 41.01 | 35.11 | 864 | 1.47 | 0.27 | 47.3 |
| 5/1/2015 21:48:28 | 41.34 | 35.44 | 846 | 1.49 | 0.27 | 46.3 |
| 5/1/2015 21:48:29 | 41.67 | 35.77 | 820 | 1.57 | 0.27 | 44.9 |
| 5/1/2015 21:48:31 | 41.99 | 36.09 | 453 | 1.24 | 0.26 | 24.8 |
| 5/1/2015 21:48:31 | 42.32 | 36.42 | 383 | 1.25 | 0.27 | 20.9 |
| 5/1/2015 21:48:32 | 42.65 | 36.75 | 372 | 1.24 | 0.27 | 20.3 |
| 5/1/2015 21:48:33 | 42.98 | 37.08 | 451 | 1.24 | 0.27 | 24.7 |
| 5/1/2015 21:48:33 | 43.31 | 37.41 | 471 | 1.24 | 0.27 | 25.8 |
| 5/1/2015 21:48:34 | 43.64 | 37.74 | 503 | 1.26 | 0.27 | 27.5 |
| 5/1/2015 21:48:35 | 43.96 | 38.06 | 514 | 1.24 | 0.27 | 28.1 |
| 5/1/2015 21:48:35 | 44.29 | 38.39 | 520 | 1.24 | 0.27 | 28.5 |
| 5/1/2015 21:48:36 | 44.62 | 38.72 | 529 | 1.23 | 0.26 | 28.9 |
| 5/1/2015 21:48:37 | 44.95 | 39.05 | 529 | 1.24 | 0.27 | 28.9 |
| 5/1/2015 21:48:37 | 45.28 | 39.38 | 529 | 1.24 | 0.26 | 28.9 |
| 5/1/2015 21:48:38 | 45.60 | 39.70 | 532 | 1.19 | 0.22 | 29.1 |
| 5/1/2015 21:48:39 | 45.93 | 40.03 | 532 | 1.17 | 0.22 | 29.1 |
| 5/1/2015 21:48:39 | 46.26 | 40.36 | 541 | 1.19 | 0.23 | 29.6 |
| 5/1/2015 21:48:40 | 46.59 | 40.69 | 546 | 1.15 | 0.21 | 29.9 |
| 5/1/2015 21:48:41 | 46.92 | 41.02 | 561 | 1.13 | 0.20 | 30.7 |
| 5/1/2015 21:48:42 | 47.24 | 41.34 | 567 | 1.17 | 0.23 | 31.0 |
| 5/1/2015 21:48:42 | 47.57 | 41.67 | 564 | 1.15 | 0.22 | 30.8 |
| 5/1/2015 21:48:43 | 47.90 | 42.00 | 567 | 1.16 | 0.22 | 31.0 |
| 5/1/2015 21:48:43 | 48.23 | 42.33 | 564 | 1.17 | 0.22 | 30.8 |
| 5/1/2015 21:48:44 | 48.56 | 42.66 | 557 | 1.15 | 0.22 | 30.5 |
| 5/1/2015 21:48:45 | 48.88 | 42.98 | 561 | 1.15 | 0.21 | 30.7 |
| 5/1/2015 21:48:45 | 49.21 | 43.31 | 561 | 1.15 | 0.20 | 30.7 |
| 5/1/2015 21:48:46 | 49.54 | 43.64 | 564 | 1.13 | 0.20 | 30.8 |
| 5/1/2015 21:48:46 | 49.87 | 43.97 | 570 | 1.16 | 0.21 | 31.1 |
| 5/1/2015 21:48:47 | 50.20 | 44.30 | 575 | 1.14 | 0.21 | 31.5 |
| 5/1/2015 21:48:48 | 50.53 | 44.63 | 575 | 1.18 | 0.24 | 31.5 |
| 5/1/2015 21:48:48 | 50.85 | 44.95 | 569 | 1.14 | 0.20 | 31.1 |
| 5/1/2015 21:48:49 | 51.18 | 45.28 | 575 | 1.17 | 0.23 | 31.5 |
| 5/1/2015 21:48:49 | 51.51 | 45.61 | 570 | 1.15 | 0.22 | 31.2 |
| 5/1/2015 21:48:51 | 51.84 | 45.94 | 570 | 1.15 | 0.21 | 31.1 |
| 5/1/2015 21:48:51 | 52.17 | 46.27 | 572 | 1.17 | 0.23 | 31.3 |
| 5/1/2015 21:48:52 | 52.49 | 46.59 | 567 | 1.14 | 0.20 | 31.0 |
| 5/1/2015 21:48:52 | 52.82 | 46.92 | 569 | 1.15 | 0.20 | 31.1 |
| 5/1/2015 21:48:53 | 53.15 | 47.25 | 549 | 1.15 | 0.20 | 30.0 |
| 5/1/2015 21:48:54 | 53.48 | 47.58 | 529 | 1.13 | 0.20 | 28.9 |
| 5/1/2015 21:48:55 | 53.81 | 47.91 | 479 | 1.24 | 0.26 | 26.2 |
| 5/1/2015 21:48:55 | 54.13 | 48.23 | 451 | 1.24 | 0.26 | 24.7 |
| 5/1/2015 21:48:56 | 54.46 | 48.56 | 457 | 1.25 | 0.26 | 25.0 |
| 5/1/2015 21:48:57 | 54.79 | 48.89 | 466 | 1.25 | 0.27 | 25.5 |
| 5/1/2015 21:48:57 | 55.12 | 49.22 | 466 | 1.15 | 0.19 | 25.5 |
| 5/1/2015 21:48:58 | 55.45 | 49.55 | 447 | 1.13 | 0.20 | 24.5 |
| 5/1/2015 21:49:00 | 55.77 | 49.87 | 432 | 1.15 | 0.20 | 23.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:49:01 | 56.10 | 50.20 | 413 | 1.15 | 0.20 | 22.6 |
| 5/1/2015 21:49:51 | 56.43 | 50.53 | 0 | 1.15 | 0.86 | 0.0 |
| 5/1/2015 21:49:51 | 56.76 | 50.86 | 109 | 1.14 | 0.85 | 5.9 |
| 5/1/2015 21:49:52 | 57.09 | 51.19 | 223 | 1.13 | 0.85 | 12.2 |
| 5/1/2015 21:49:52 | 57.41 | 51.51 | 332 | 1.14 | 0.87 | 18.1 |
| 5/1/2015 21:49:54 | 57.74 | 51.84 | 552 | 1.14 | 0.87 | 30.2 |
| 5/1/2015 21:49:54 | 58.07 | 52.17 | 552 | 1.14 | 0.86 | 30.2 |
| 5/1/2015 21:49:55 | 58.40 | 52.50 | 549 | 1.14 | 0.86 | 30.0 |
| 5/1/2015 21:49:55 | 58.73 | 52.83 | 550 | 1.19 | 0.86 | 30.1 |
| 5/1/2015 21:49:56 | 59.06 | 53.16 | 549 | 1.15 | 0.86 | 30.0 |
| 5/1/2015 21:49:57 | 59.38 | 53.48 | 538 | 1.17 | 0.88 | 29.4 |
| 5/1/2015 21:49:58 | 59.71 | 53.81 | 491 | 1.19 | 0.96 | 26.9 |
| 5/1/2015 21:50:00 | 60.04 | 54.14 | 207 | 1.20 | 0.82 | 11.3 |
| 5/1/2015 21:50:01 | 60.37 | 54.47 | 182 | 1.15 | 1.16 | 10.0 |
| 5/1/2015 21:50:03 | 60.70 | 54.80 | 249 | 1.16 | 0.91 | 13.6 |
| 5/1/2015 21:50:04 | 60.97 | 55.07 | 278 | 1.18 | 0.98 | 15.2 |

## L145 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 21:46:19

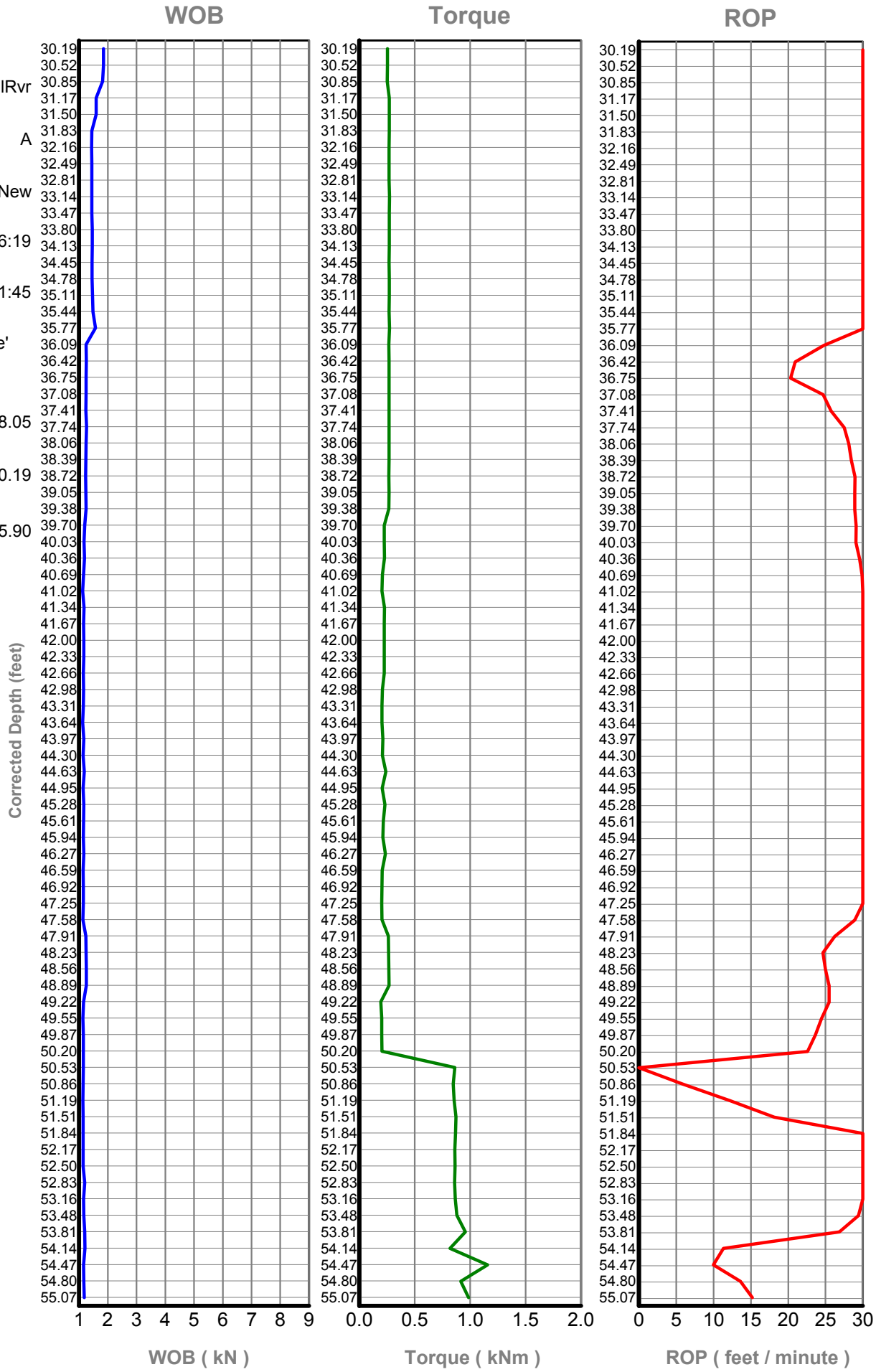
**End Date:**
5/1/2015 21:51:45

**Operator Note:**
'5.9 5.7 a Auto Complete'

**Northing:**
359,318.05

**Easting:**
241,770.19

**Tide (feet):**
5.90



## Hole: L146 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:49:14 | 36.09 | 30.19 | 1,006 | 0.37 | 0.40 | 55.0 |
| 5/1/2015 21:49:15 | 36.42 | 30.52 | 994 | 0.37 | 0.37 | 54.4 |
| 5/1/2015 21:49:15 | 36.75 | 30.85 | 994 | 0.37 | 0.37 | 54.4 |
| 5/1/2015 21:49:16 | 37.07 | 31.17 | 1,016 | 0.37 | 0.39 | 55.5 |
| 5/1/2015 21:49:16 | 37.40 | 31.50 | 1,007 | 0.36 | 0.39 | 55.1 |
| 5/1/2015 21:49:17 | 37.73 | 31.83 | 1,007 | 0.36 | 0.39 | 55.1 |
| 5/1/2015 21:49:17 | 38.06 | 32.16 | 1,013 | 0.37 | 0.39 | 55.4 |
| 5/1/2015 21:49:17 | 38.39 | 32.49 | 1,007 | 0.37 | 0.39 | 55.1 |
| 5/1/2015 21:49:18 | 38.71 | 32.81 | 1,007 | 0.37 | 0.39 | 55.1 |
| 5/1/2015 21:49:18 | 39.04 | 33.14 | 997 | 0.37 | 0.39 | 54.5 |
| 5/1/2015 21:49:18 | 39.37 | 33.47 | 997 | 0.36 | 0.39 | 54.5 |
| 5/1/2015 21:49:19 | 39.70 | 33.80 | 997 | 0.36 | 0.39 | 54.5 |
| 5/1/2015 21:49:19 | 40.03 | 34.13 | 993 | 0.36 | 0.39 | 54.3 |
| 5/1/2015 21:49:19 | 40.35 | 34.45 | 1,006 | 0.37 | 0.39 | 55.0 |
| 5/1/2015 21:49:20 | 40.68 | 34.78 | 1,006 | 0.37 | 0.39 | 55.0 |
| 5/1/2015 21:49:20 | 41.01 | 35.11 | 1,009 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 21:49:20 | 41.34 | 35.44 | 1,018 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 21:49:21 | 41.67 | 35.77 | 1,030 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 21:49:21 | 41.99 | 36.09 | 1,030 | 0.36 | 0.39 | 56.3 |
| 5/1/2015 21:49:21 | 42.32 | 36.42 | 1,034 | 0.38 | 0.39 | 56.5 |
| 5/1/2015 21:49:22 | 42.65 | 36.75 | 1,006 | 0.36 | 0.47 | 55.0 |
| 5/1/2015 21:49:22 | 42.98 | 37.08 | 1,006 | 0.36 | 0.47 | 55.0 |
| 5/1/2015 21:49:22 | 43.31 | 37.41 | 1,006 | 0.36 | 0.39 | 55.0 |
| 5/1/2015 21:49:23 | 43.64 | 37.74 | 1,014 | 0.36 | 0.39 | 55.4 |
| 5/1/2015 21:49:23 | 43.96 | 38.06 | 1,014 | 0.36 | 0.39 | 55.4 |
| 5/1/2015 21:49:23 | 44.29 | 38.39 | 997 | 0.36 | 0.39 | 54.5 |
| 5/1/2015 21:49:24 | 44.62 | 38.72 | 997 | 0.36 | 0.39 | 54.5 |
| 5/1/2015 21:49:25 | 44.95 | 39.05 | 997 | 0.36 | 0.39 | 54.5 |
| 5/1/2015 21:49:24 | 45.28 | 39.38 | 1,004 | 0.36 | 0.39 | 54.9 |
| 5/1/2015 21:49:25 | 45.60 | 39.70 | 1,004 | 0.36 | 0.39 | 54.9 |
| 5/1/2015 21:49:26 | 45.93 | 40.03 | 1,004 | 0.36 | 0.39 | 54.9 |
| 5/1/2015 21:49:26 | 46.26 | 40.36 | 1,002 | 0.36 | 0.39 | 54.8 |
| 5/1/2015 21:49:26 | 46.59 | 40.69 | 1,010 | 0.36 | 0.38 | 55.2 |
| 5/1/2015 21:49:27 | 46.92 | 41.02 | 1,010 | 0.36 | 0.38 | 55.2 |
| 5/1/2015 21:49:27 | 47.24 | 41.34 | 999 | 0.37 | 0.39 | 54.6 |
| 5/1/2015 21:49:27 | 47.57 | 41.67 | 1,001 | 0.36 | 0.39 | 54.7 |
| 5/1/2015 21:49:28 | 47.90 | 42.00 | 1,001 | 0.36 | 0.39 | 54.7 |
| 5/1/2015 21:49:28 | 48.23 | 42.33 | 1,001 | 0.37 | 0.39 | 54.7 |
| 5/1/2015 21:49:28 | 48.56 | 42.66 | 1,019 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 21:49:29 | 48.88 | 42.98 | 1,019 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 21:49:29 | 49.21 | 43.31 | 1,017 | 0.36 | 0.39 | 55.6 |
| 5/1/2015 21:49:29 | 49.54 | 43.64 | 1,009 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 21:49:30 | 49.87 | 43.97 | 1,009 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 21:49:30 | 50.20 | 44.30 | 1,009 | 0.36 | 0.39 | 55.2 |
| 5/1/2015 21:49:30 | 50.53 | 44.63 | 1,017 | 0.38 | 0.39 | 55.6 |
| 5/1/2015 21:49:31 | 50.85 | 44.95 | 1,017 | 0.38 | 0.39 | 55.6 |
| 5/1/2015 21:49:31 | 51.18 | 45.28 | 1,034 | 0.36 | 0.39 | 56.5 |
| 5/1/2015 21:49:31 | 51.51 | 45.61 | 1,007 | 0.35 | 0.39 | 55.1 |
| 5/1/2015 21:49:32 | 51.84 | 45.94 | 1,007 | 0.35 | 0.39 | 55.1 |
| 5/1/2015 21:49:32 | 52.17 | 46.27 | 1,013 | 0.37 | 0.39 | 55.4 |
| 5/1/2015 21:49:32 | 52.49 | 46.59 | 1,018 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 21:49:33 | 52.82 | 46.92 | 1,018 | 0.36 | 0.39 | 55.7 |
| 5/1/2015 21:49:33 | 53.15 | 47.25 | 1,005 | 0.36 | 0.39 | 54.9 |
| 5/1/2015 21:49:33 | 53.48 | 47.58 | 1,002 | 0.36 | 0.39 | 54.8 |
| 5/1/2015 21:49:34 | 53.81 | 47.91 | 1,002 | 0.36 | 0.39 | 54.8 |
| 5/1/2015 21:49:40 | 54.13 | 48.23 | 0 | 2.95 | 0.41 | 0.0 |
| 5/1/2015 21:49:40 | 54.46 | 48.56 | 26 | 2.61 | 0.40 | 1.4 |
| 5/1/2015 21:49:41 | 54.79 | 48.89 | 194 | 2.68 | 0.40 | 10.6 |
| 5/1/2015 21:49:41 | 55.12 | 49.22 | 194 | 2.61 | 0.40 | 10.6 |
| 5/1/2015 21:49:42 | 55.45 | 49.55 | 194 | 2.61 | 0.40 | 10.6 |
| 5/1/2015 21:49:42 | 55.77 | 49.87 | 382 | 2.61 | 0.40 | 20.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:49:42 | 56.10 | 50.20 | 576 | 2.61 | 0.40 | 31.5 |
| 5/1/2015 21:49:43 | 56.43 | 50.53 | 756 | 2.62 | 0.40 | 41.3 |
| 5/1/2015 21:49:43 | 56.76 | 50.86 | 898 | 2.63 | 0.41 | 49.1 |
| 5/1/2015 21:49:44 | 57.09 | 51.19 | 898 | 2.63 | 0.41 | 49.1 |
| 5/1/2015 21:49:44 | 57.41 | 51.51 | 904 | 2.63 | 0.40 | 49.4 |
| 5/1/2015 21:49:44 | 57.74 | 51.84 | 890 | 2.61 | 0.40 | 48.7 |
| 5/1/2015 21:49:45 | 58.07 | 52.17 | 870 | 2.63 | 0.41 | 47.6 |
| 5/1/2015 21:49:45 | 58.40 | 52.50 | 853 | 2.63 | 0.41 | 46.6 |
| 5/1/2015 21:49:46 | 58.73 | 52.83 | 853 | 2.63 | 0.41 | 46.6 |
| 5/1/2015 21:49:46 | 59.06 | 53.16 | 841 | 2.67 | 0.41 | 46.0 |
| 5/1/2015 21:49:47 | 59.38 | 53.48 | 830 | 2.68 | 0.41 | 45.4 |
| 5/1/2015 21:49:47 | 59.71 | 53.81 | 810 | 2.69 | 0.41 | 44.3 |
| 5/1/2015 21:49:48 | 60.04 | 54.14 | 792 | 2.65 | 0.41 | 43.3 |
| 5/1/2015 21:49:48 | 60.37 | 54.47 | 775 | 2.78 | 0.42 | 42.4 |
| 5/1/2015 21:49:49 | 60.70 | 54.80 | 756 | 2.88 | 0.43 | 41.3 |
| 5/1/2015 21:49:49 | 60.79 | 54.89 | 756 | 2.88 | 0.43 | 41.3 |

## L146 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 21:47:40

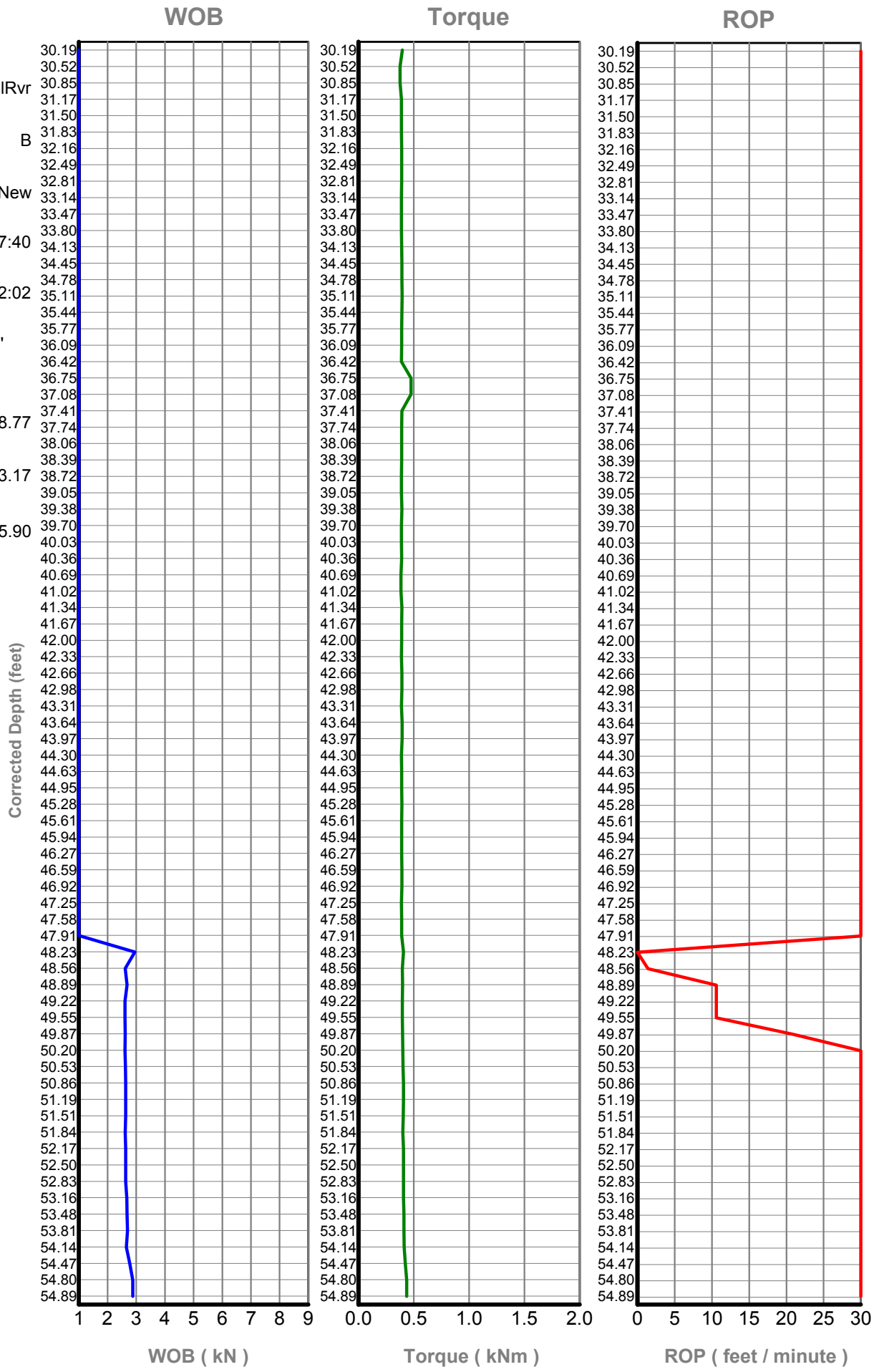
**End Date:**
5/1/2015 21:52:02

**Operator Note:**
'5.9 5.7b Auto Complete'

**Northing:**
359,358.77

**Easting:**
241,833.17

**Tide (feet):**
5.90



## Hole: L147 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:47:54 | 36.09 | 30.19 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 21:47:54 | 36.42 | 30.52 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 21:47:54 | 36.75 | 30.85 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 21:47:55 | 37.07 | 31.17 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:47:55 | 37.40 | 31.50 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:47:55 | 37.73 | 31.83 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:47:56 | 38.06 | 32.16 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 21:47:56 | 38.39 | 32.49 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 21:47:56 | 38.71 | 32.81 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:47:57 | 39.04 | 33.14 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:47:57 | 39.37 | 33.47 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:47:57 | 39.70 | 33.80 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:47:58 | 40.03 | 34.13 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:47:58 | 40.35 | 34.45 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:47:58 | 40.68 | 34.78 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:47:59 | 41.01 | 35.11 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:47:59 | 41.34 | 35.44 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:47:59 | 41.67 | 35.77 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:48:00 | 41.99 | 36.09 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:48:00 | 42.32 | 36.42 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:48:00 | 42.65 | 36.75 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:01 | 42.98 | 37.08 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 21:48:01 | 43.31 | 37.41 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 21:48:01 | 43.64 | 37.74 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:48:02 | 43.96 | 38.06 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:02 | 44.29 | 38.39 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:02 | 44.62 | 38.72 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:03 | 44.95 | 39.05 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:04 | 45.28 | 39.38 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:04 | 45.60 | 39.70 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:48:04 | 45.93 | 40.03 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:48:05 | 46.26 | 40.36 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:48:05 | 46.59 | 40.69 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:48:05 | 46.92 | 41.02 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:48:06 | 47.24 | 41.34 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:48:06 | 47.57 | 41.67 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:48:06 | 47.90 | 42.00 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:07 | 48.23 | 42.33 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:07 | 48.56 | 42.66 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:07 | 48.88 | 42.98 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:08 | 49.21 | 43.31 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:08 | 49.54 | 43.64 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:08 | 49.87 | 43.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:48:09 | 50.20 | 44.30 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:09 | 50.53 | 44.63 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:09 | 50.85 | 44.95 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:48:10 | 51.18 | 45.28 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:10 | 51.51 | 45.61 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:48:10 | 51.84 | 45.94 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:48:11 | 52.17 | 46.27 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:11 | 52.49 | 46.59 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:48:11 | 52.82 | 46.92 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:48:12 | 53.15 | 47.25 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:48:12 | 53.48 | 47.58 | 960 | 1.14 | 0.29 | 52.5 |
| 5/1/2015 21:48:31 | 53.81 | 47.91 | 71 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 21:48:32 | 54.13 | 48.23 | 157 | 1.14 | 0.29 | 8.6 |
| 5/1/2015 21:48:32 | 54.46 | 48.56 | 287 | 1.14 | 0.29 | 15.7 |
| 5/1/2015 21:48:33 | 54.79 | 48.89 | 435 | 1.14 | 0.29 | 23.8 |
| 5/1/2015 21:48:34 | 55.12 | 49.22 | 492 | 1.14 | 0.29 | 26.9 |
| 5/1/2015 21:48:35 | 55.45 | 49.55 | 513 | 1.14 | 0.29 | 28.0 |
| 5/1/2015 21:48:43 | 55.77 | 49.87 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 21:48:44 | 56.10 | 50.20 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 21:48:44 | 56.43 | 50.53 | 198 | 1.14 | 0.29 | 10.8 |
| 5/1/2015 21:48:45 | 56.76 | 50.86 | 345 | 1.14 | 0.29 | 18.9 |
| 5/1/2015 21:48:47 | 57.09 | 51.19 | 238 | 1.14 | 0.29 | 13.0 |
| 5/1/2015 21:48:47 | 57.41 | 51.51 | 235 | 1.14 | 0.29 | 12.9 |
| 5/1/2015 21:48:51 | 57.74 | 51.84 | 99 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 21:48:51 | 58.07 | 52.17 | 188 | 1.14 | 0.29 | 10.3 |
| 5/1/2015 21:48:54 | 58.40 | 52.50 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 21:48:55 | 58.73 | 52.83 | 140 | 1.14 | 0.29 | 7.7 |
| 5/1/2015 21:48:58 | 59.06 | 53.16 | 15 | 1.14 | 0.29 | 0.8 |
| 5/1/2015 21:49:06 | 59.38 | 53.48 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 21:49:10 | 59.71 | 53.81 | 57 | 1.14 | 0.29 | 3.1 |
| 5/1/2015 21:49:11 | 60.04 | 54.14 | 57 | 1.14 | 0.29 | 3.1 |
| 5/1/2015 21:49:20 | 60.37 | 54.47 | 53 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 21:49:22 | 60.70 | 54.80 | 104 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 21:49:23 | 60.75 | 54.85 | 118 | 1.14 | 0.29 | 6.5 |

## L147 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/1/2015 21:46:38

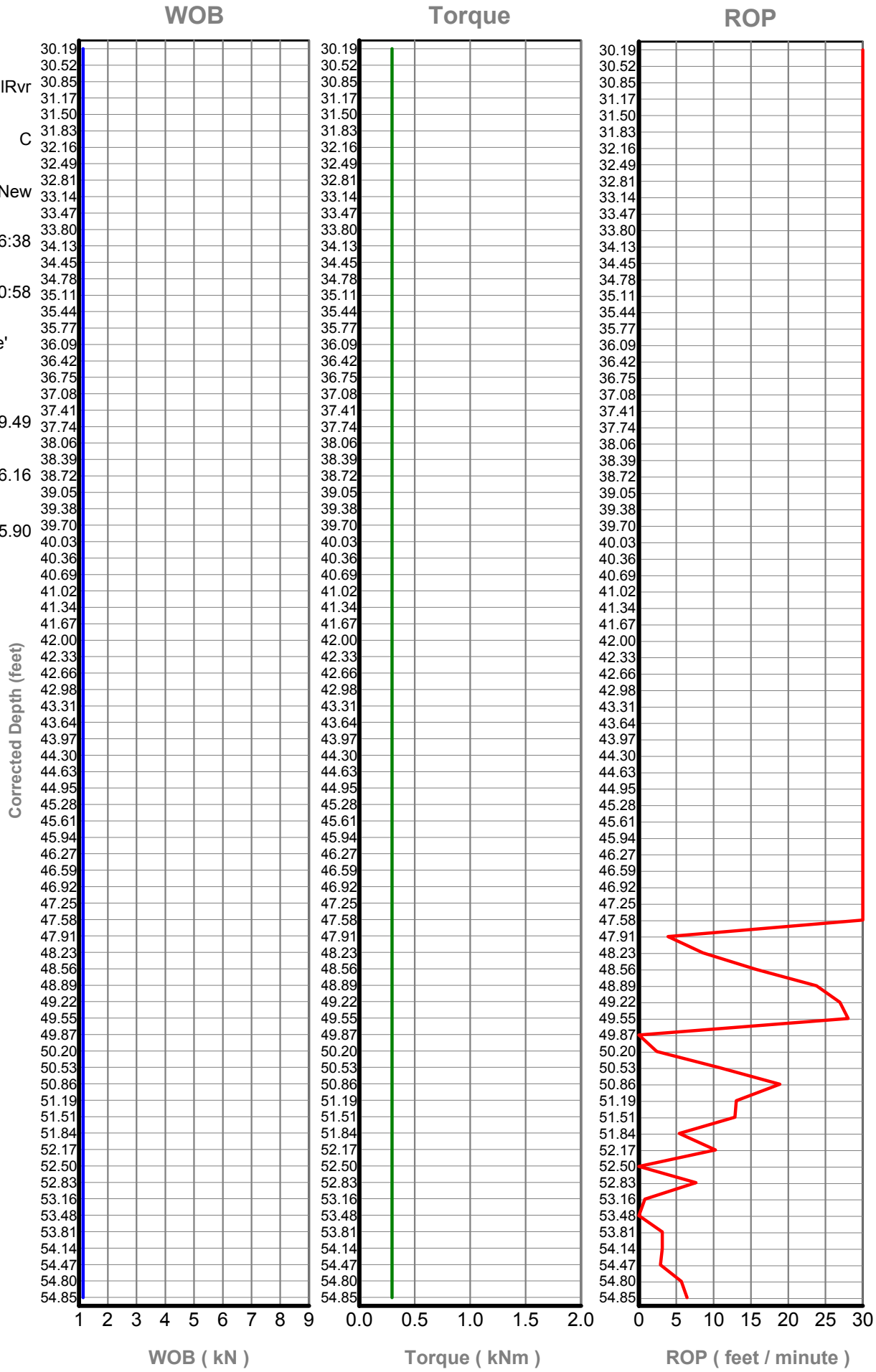
**End Date:**
5/1/2015 21:50:58

**Operator Note:**
'5.9 5.7 c Auto Complete'

**Northing:**
359,399.49

**Easting:**
241,896.16

**Tide (feet):**
5.90



## Hole: L148 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:32:46 | 33.46 | 30.26 | 914 | 1.14 | 0.15 | 50.0 |
| 5/1/2015 15:32:46 | 33.79 | 30.59 | 914 | 1.16 | 0.15 | 50.0 |
| 5/1/2015 15:32:47 | 34.12 | 30.92 | 914 | 1.16 | 0.15 | 50.0 |
| 5/1/2015 15:32:47 | 34.45 | 31.25 | 911 | 1.16 | 0.16 | 49.8 |
| 5/1/2015 15:32:47 | 34.78 | 31.58 | 911 | 1.15 | 0.16 | 49.8 |
| 5/1/2015 15:32:48 | 35.11 | 31.91 | 890 | 1.14 | 0.15 | 48.7 |
| 5/1/2015 15:32:48 | 35.43 | 32.23 | 890 | 1.14 | 0.15 | 48.7 |
| 5/1/2015 15:32:48 | 35.76 | 32.56 | 890 | 1.15 | 0.15 | 48.7 |
| 5/1/2015 15:32:49 | 36.09 | 32.89 | 896 | 1.14 | 0.15 | 49.0 |
| 5/1/2015 15:32:49 | 36.42 | 33.22 | 901 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:50 | 36.75 | 33.55 | 901 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:50 | 37.07 | 33.87 | 886 | 1.15 | 0.16 | 48.4 |
| 5/1/2015 15:32:50 | 37.40 | 34.20 | 889 | 1.15 | 0.16 | 48.6 |
| 5/1/2015 15:32:51 | 37.73 | 34.53 | 889 | 1.16 | 0.15 | 48.6 |
| 5/1/2015 15:32:51 | 38.06 | 34.86 | 889 | 1.16 | 0.15 | 48.6 |
| 5/1/2015 15:32:51 | 38.39 | 35.19 | 921 | 1.15 | 0.16 | 50.4 |
| 5/1/2015 15:32:52 | 38.71 | 35.51 | 916 | 1.15 | 0.16 | 50.1 |
| 5/1/2015 15:32:52 | 39.04 | 35.84 | 913 | 1.17 | 0.17 | 49.9 |
| 5/1/2015 15:32:53 | 39.37 | 36.17 | 913 | 1.17 | 0.17 | 49.9 |
| 5/1/2015 15:32:53 | 39.70 | 36.50 | 901 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:53 | 40.03 | 36.83 | 901 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:54 | 40.35 | 37.15 | 908 | 1.17 | 0.16 | 49.7 |
| 5/1/2015 15:32:55 | 40.68 | 37.48 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:55 | 41.01 | 37.81 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:55 | 41.34 | 38.14 | 899 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 15:32:56 | 41.67 | 38.47 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 15:32:56 | 41.99 | 38.79 | 915 | 1.21 | 0.16 | 50.0 |
| 5/1/2015 15:32:57 | 42.32 | 39.12 | 915 | 1.21 | 0.16 | 50.0 |
| 5/1/2015 15:32:57 | 42.65 | 39.45 | 911 | 1.13 | 0.16 | 49.8 |
| 5/1/2015 15:32:57 | 42.98 | 39.78 | 902 | 1.07 | 0.16 | 49.3 |
| 5/1/2015 15:32:58 | 43.31 | 40.11 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 15:32:58 | 43.64 | 40.44 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 15:32:58 | 43.96 | 40.76 | 892 | 1.16 | 0.16 | 48.8 |
| 5/1/2015 15:32:59 | 44.29 | 41.09 | 911 | 1.15 | 0.16 | 49.8 |
| 5/1/2015 15:32:59 | 44.62 | 41.42 | 896 | 1.15 | 0.16 | 49.0 |
| 5/1/2015 15:33:00 | 44.95 | 41.75 | 896 | 1.15 | 0.16 | 49.0 |
| 5/1/2015 15:33:00 | 45.28 | 42.08 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 15:33:00 | 45.60 | 42.40 | 887 | 1.17 | 0.16 | 48.5 |
| 5/1/2015 15:33:01 | 45.93 | 42.73 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 15:33:01 | 46.26 | 43.06 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 15:33:01 | 46.59 | 43.39 | 896 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 15:33:02 | 46.92 | 43.72 | 909 | 1.16 | 0.16 | 49.7 |
| 5/1/2015 15:33:02 | 47.24 | 44.04 | 890 | 1.15 | 0.16 | 48.6 |
| 5/1/2015 15:33:03 | 47.57 | 44.37 | 890 | 1.15 | 0.16 | 48.6 |
| 5/1/2015 15:33:03 | 47.90 | 44.70 | 890 | 1.16 | 0.16 | 48.7 |
| 5/1/2015 15:33:03 | 48.23 | 45.03 | 893 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 15:33:04 | 48.56 | 45.36 | 893 | 1.16 | 0.16 | 48.8 |
| 5/1/2015 15:33:05 | 48.88 | 45.68 | 893 | 1.14 | 0.17 | 48.8 |
| 5/1/2015 15:33:05 | 49.21 | 46.01 | 893 | 1.14 | 0.17 | 48.8 |
| 5/1/2015 15:33:05 | 49.54 | 46.34 | 887 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 15:33:06 | 49.87 | 46.67 | 903 | 1.15 | 0.16 | 49.4 |
| 5/1/2015 15:33:06 | 50.20 | 47.00 | 907 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 15:33:07 | 50.53 | 47.33 | 907 | 1.16 | 0.16 | 49.6 |
| 5/1/2015 15:33:07 | 50.85 | 47.65 | 902 | 1.17 | 0.16 | 49.3 |
| 5/1/2015 15:33:07 | 51.18 | 47.98 | 900 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 15:33:08 | 51.51 | 48.31 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 15:33:08 | 51.84 | 48.64 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 15:33:08 | 52.17 | 48.97 | 885 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 15:33:19 | 52.49 | 49.29 | 97 | 1.17 | 0.75 | 5.3 |
| 5/1/2015 15:33:19 | 52.82 | 49.62 | 200 | 1.16 | 0.74 | 10.9 |
| 5/1/2015 15:33:20 | 53.15 | 49.95 | 292 | 1.16 | 0.74 | 16.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:33:21 | 53.48 | 50.28 | 408 | 1.16 | 0.75 | 22.3 |
| 5/1/2015 | 15:33:21 | 53.81 | 50.61 | 510 | 1.16 | 0.76 | 27.9 |
| 5/1/2015 | 15:33:22 | 54.13 | 50.93 | 510 | 1.15 | 0.75 | 27.9 |
| 5/1/2015 | 15:33:22 | 54.46 | 51.26 | 523 | 1.17 | 0.75 | 28.6 |
| 5/1/2015 | 15:33:23 | 54.79 | 51.59 | 549 | 1.15 | 0.77 | 30.0 |
| 5/1/2015 | 15:33:24 | 55.12 | 51.92 | 534 | 1.17 | 0.77 | 29.2 |
| 5/1/2015 | 15:33:24 | 55.45 | 52.25 | 534 | 1.15 | 0.78 | 29.2 |
| 5/1/2015 | 15:33:25 | 55.77 | 52.57 | 528 | 1.17 | 0.78 | 28.9 |
| 5/1/2015 | 15:33:26 | 56.10 | 52.90 | 525 | 1.16 | 0.79 | 28.7 |
| 5/1/2015 | 15:33:27 | 56.43 | 53.23 | 515 | 1.17 | 0.82 | 28.2 |
| 5/1/2015 | 15:33:29 | 56.76 | 53.56 | 394 | 1.19 | 0.95 | 21.5 |
| 5/1/2015 | 15:33:30 | 57.09 | 53.89 | 212 | 1.18 | 0.99 | 11.6 |
| 5/1/2015 | 15:33:32 | 57.41 | 54.21 | 215 | 1.18 | 0.91 | 11.7 |
| 5/1/2015 | 15:33:33 | 57.74 | 54.54 | 235 | 1.20 | 0.91 | 12.8 |
| 5/1/2015 | 15:33:35 | 58.07 | 54.87 | 233 | 1.19 | 0.97 | 12.7 |
| 5/1/2015 | 15:33:38 | 58.40 | 55.20 | 138 | 1.21 | 0.92 | 7.5 |
| 5/1/2015 | 15:33:39 | 58.53 | 55.33 | 143 | 0.57 | 0.85 | 7.8 |

## L148 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:31:12

**End Date:**
5/1/2015 15:35:30

**Operator Note:**
'3.2 3.3 a Auto Complete'

**Northing:**
359,430.00

**Easting:**
241,953.00

**Tide (feet):**
3.20



## Hole: L149 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:33:55 | 33.46 | 30.26 | 1,112 | 0.37 | 0.37 | 60.8 |
| 5/1/2015 15:33:55 | 33.79 | 30.59 | 1,112 | 0.37 | 0.37 | 60.8 |
| 5/1/2015 15:33:55 | 34.12 | 30.92 | 1,125 | 0.37 | 0.38 | 61.5 |
| 5/1/2015 15:33:56 | 34.45 | 31.25 | 1,128 | 0.37 | 0.38 | 61.7 |
| 5/1/2015 15:33:56 | 34.78 | 31.58 | 1,128 | 0.37 | 0.38 | 61.7 |
| 5/1/2015 15:33:56 | 35.11 | 31.91 | 1,111 | 0.39 | 0.38 | 60.7 |
| 5/1/2015 15:33:57 | 35.43 | 32.23 | 1,111 | 0.39 | 0.38 | 60.7 |
| 5/1/2015 15:33:57 | 35.76 | 32.56 | 1,111 | 0.38 | 0.38 | 60.7 |
| 5/1/2015 15:33:57 | 36.09 | 32.89 | 1,109 | 0.39 | 0.39 | 60.7 |
| 5/1/2015 15:33:58 | 36.42 | 33.22 | 1,109 | 0.39 | 0.39 | 60.7 |
| 5/1/2015 15:33:58 | 36.75 | 33.55 | 1,109 | 0.39 | 0.38 | 60.7 |
| 5/1/2015 15:33:59 | 37.07 | 33.87 | 1,109 | 0.39 | 0.38 | 60.7 |
| 5/1/2015 15:33:59 | 37.40 | 34.20 | 1,111 | 0.38 | 0.38 | 60.7 |
| 5/1/2015 15:33:59 | 37.73 | 34.53 | 1,100 | 0.39 | 0.38 | 60.2 |
| 5/1/2015 15:33:59 | 38.06 | 34.86 | 1,100 | 0.39 | 0.38 | 60.2 |
| 5/1/2015 15:34:00 | 38.39 | 35.19 | 1,100 | 0.38 | 0.38 | 60.2 |
| 5/1/2015 15:34:00 | 38.71 | 35.51 | 1,097 | 0.39 | 0.38 | 60.0 |
| 5/1/2015 15:34:01 | 39.04 | 35.84 | 1,097 | 0.39 | 0.38 | 60.0 |
| 5/1/2015 15:34:01 | 39.37 | 36.17 | 1,097 | 0.39 | 0.38 | 60.0 |
| 5/1/2015 15:34:01 | 39.70 | 36.50 | 1,097 | 0.39 | 0.38 | 60.0 |
| 5/1/2015 15:34:01 | 40.03 | 36.83 | 1,136 | 0.38 | 0.38 | 62.1 |
| 5/1/2015 15:34:02 | 40.35 | 37.15 | 1,134 | 0.39 | 0.38 | 62.0 |
| 5/1/2015 15:34:02 | 40.68 | 37.48 | 1,134 | 0.39 | 0.38 | 62.0 |
| 5/1/2015 15:34:02 | 41.01 | 37.81 | 1,108 | 0.41 | 0.38 | 60.6 |
| 5/1/2015 15:34:03 | 41.34 | 38.14 | 1,108 | 0.41 | 0.38 | 60.6 |
| 5/1/2015 15:34:03 | 41.67 | 38.47 | 1,117 | 0.39 | 0.39 | 61.1 |
| 5/1/2015 15:34:03 | 41.99 | 38.79 | 1,117 | 0.38 | 0.38 | 61.1 |
| 5/1/2015 15:34:04 | 42.32 | 39.12 | 1,117 | 0.38 | 0.38 | 61.1 |
| 5/1/2015 15:34:04 | 42.65 | 39.45 | 1,137 | 0.38 | 0.38 | 62.2 |
| 5/1/2015 15:34:04 | 42.98 | 39.78 | 1,137 | 0.38 | 0.38 | 62.2 |
| 5/1/2015 15:34:04 | 43.31 | 40.11 | 1,109 | 0.37 | 0.38 | 60.7 |
| 5/1/2015 15:34:05 | 43.64 | 40.44 | 1,094 | 0.37 | 0.37 | 59.8 |
| 5/1/2015 15:34:05 | 43.96 | 40.76 | 1,094 | 0.37 | 0.37 | 59.8 |
| 5/1/2015 15:34:05 | 44.29 | 41.09 | 1,094 | 0.37 | 0.38 | 59.8 |
| 5/1/2015 15:34:06 | 44.62 | 41.42 | 1,130 | 0.37 | 0.38 | 61.8 |
| 5/1/2015 15:34:06 | 44.95 | 41.75 | 1,130 | 0.37 | 0.38 | 61.8 |
| 5/1/2015 15:34:06 | 45.28 | 42.08 | 1,108 | 0.37 | 0.39 | 60.6 |
| 5/1/2015 15:34:07 | 45.60 | 42.40 | 1,108 | 0.37 | 0.39 | 60.6 |
| 5/1/2015 15:34:07 | 45.93 | 42.73 | 1,108 | 0.29 | 0.36 | 60.6 |
| 5/1/2015 15:34:07 | 46.26 | 43.06 | 1,109 | 0.30 | 0.38 | 60.7 |
| 5/1/2015 15:34:08 | 46.59 | 43.39 | 1,109 | 0.30 | 0.38 | 60.7 |
| 5/1/2015 15:34:08 | 46.92 | 43.72 | 1,109 | 0.29 | 0.38 | 60.6 |
| 5/1/2015 15:34:09 | 47.24 | 44.04 | 1,109 | 0.29 | 0.38 | 60.6 |
| 5/1/2015 15:34:08 | 47.57 | 44.37 | 1,122 | 0.29 | 0.38 | 61.4 |
| 5/1/2015 15:34:09 | 47.90 | 44.70 | 1,122 | 0.29 | 0.38 | 61.4 |
| 5/1/2015 15:34:09 | 48.23 | 45.03 | 1,122 | 0.28 | 0.37 | 61.4 |
| 5/1/2015 15:34:10 | 48.56 | 45.36 | 1,134 | 0.29 | 0.37 | 62.0 |
| 5/1/2015 15:34:10 | 48.88 | 45.68 | 1,134 | 0.29 | 0.37 | 62.0 |
| 5/1/2015 15:34:10 | 49.21 | 46.01 | 1,142 | 0.29 | 0.36 | 62.4 |
| 5/1/2015 15:34:10 | 49.54 | 46.34 | 1,142 | 0.29 | 0.36 | 62.4 |
| 5/1/2015 15:34:11 | 49.87 | 46.67 | 1,142 | 0.29 | 0.37 | 62.4 |
| 5/1/2015 15:34:11 | 50.20 | 47.00 | 1,140 | 0.28 | 0.38 | 62.3 |
| 5/1/2015 15:34:12 | 50.53 | 47.33 | 1,140 | 0.28 | 0.38 | 62.3 |
| 5/1/2015 15:34:12 | 50.85 | 47.65 | 1,164 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 15:34:12 | 51.18 | 47.98 | 1,164 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 15:34:12 | 51.51 | 48.31 | 1,164 | 0.28 | 0.37 | 63.7 |
| 5/1/2015 15:34:13 | 51.84 | 48.64 | 1,164 | 0.26 | 0.41 | 63.7 |
| 5/1/2015 15:34:13 | 52.17 | 48.97 | 1,164 | 0.26 | 0.41 | 63.7 |
| 5/1/2015 15:34:24 | 52.49 | 49.29 | 61 | 2.52 | 0.42 | 3.3 |
| 5/1/2015 15:34:25 | 52.82 | 49.62 | 178 | 3.45 | 0.43 | 9.7 |
| 5/1/2015 15:34:27 | 53.15 | 49.95 | 324 | 2.25 | 0.41 | 17.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:34:27 | 53.48 | 50.28 | 324 | 2.27 | 0.41 | 17.7 |
| 5/1/2015 | 15:34:28 | 53.81 | 50.61 | 324 | 2.27 | 0.41 | 17.7 |
| 5/1/2015 | 15:34:28 | 54.13 | 50.93 | 404 | 2.57 | 0.41 | 22.1 |
| 5/1/2015 | 15:34:28 | 54.46 | 51.26 | 432 | 2.39 | 0.41 | 23.6 |
| 5/1/2015 | 15:34:29 | 54.79 | 51.59 | 527 | 3.03 | 0.40 | 28.8 |
| 5/1/2015 | 15:34:30 | 55.12 | 51.92 | 527 | 2.86 | 0.41 | 28.8 |
| 5/1/2015 | 15:34:30 | 55.45 | 52.25 | 633 | 2.21 | 0.40 | 34.6 |
| 5/1/2015 | 15:34:31 | 55.77 | 52.57 | 720 | 5.10 | 0.42 | 39.4 |
| 5/1/2015 | 15:34:32 | 56.10 | 52.90 | 690 | 7.83 | 0.48 | 37.7 |
| 5/1/2015 | 15:34:35 | 56.43 | 53.23 | 95 | 2.69 | 0.42 | 5.2 |
| 5/1/2015 | 15:34:36 | 56.76 | 53.56 | 95 | 2.21 | 0.41 | 5.2 |
| 5/1/2015 | 15:34:36 | 57.09 | 53.89 | 227 | 2.06 | 0.41 | 12.4 |
| 5/1/2015 | 15:34:37 | 57.41 | 54.21 | 227 | 2.10 | 0.40 | 12.4 |
| 5/1/2015 | 15:34:37 | 57.74 | 54.54 | 227 | 2.10 | 0.40 | 12.4 |
| 5/1/2015 | 15:34:37 | 58.07 | 54.87 | 391 | 2.07 | 0.40 | 21.4 |
| 5/1/2015 | 15:34:38 | 58.37 | 55.17 | 552 | 2.26 | 0.41 | 30.2 |

## L149 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:22:10

**End Date:**
5/1/2015 15:36:41

**Operator Note:**
'3.2 3.3 b Auto Complete'

**Northing:**
359,468.80

**Easting:**
242,016.83

**Tide (feet):**
3.20



## Hole: L15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:45:33 | 35.11 | 30.01 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:45:34 | 35.43 | 30.33 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:45:34 | 35.76 | 30.66 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:34 | 36.09 | 30.99 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:35 | 36.42 | 31.32 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:35 | 36.75 | 31.65 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 13:45:35 | 37.07 | 31.97 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 13:45:35 | 37.40 | 32.30 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 13:45:36 | 37.73 | 32.63 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:36 | 38.06 | 32.96 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:36 | 38.39 | 33.29 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 13:45:37 | 38.71 | 33.61 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 13:45:37 | 39.04 | 33.94 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 13:45:37 | 39.37 | 34.27 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:38 | 39.70 | 34.60 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 13:45:38 | 40.03 | 34.93 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 13:45:38 | 40.35 | 35.25 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:39 | 40.68 | 35.58 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:39 | 41.01 | 35.91 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:39 | 41.34 | 36.24 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 13:45:40 | 41.67 | 36.57 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 13:45:40 | 41.99 | 36.89 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 13:45:40 | 42.32 | 37.22 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:41 | 42.65 | 37.55 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:41 | 42.98 | 37.88 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 13:45:41 | 43.31 | 38.21 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:42 | 43.64 | 38.54 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:42 | 43.96 | 38.86 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:42 | 44.29 | 39.19 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:43 | 44.62 | 39.52 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 13:45:43 | 44.95 | 39.85 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 13:45:44 | 45.28 | 40.18 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 13:45:44 | 45.60 | 40.50 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:45:44 | 45.93 | 40.83 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:45 | 46.26 | 41.16 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:45 | 46.59 | 41.49 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:45 | 46.92 | 41.82 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:46 | 47.24 | 42.14 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:46 | 47.57 | 42.47 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:46 | 47.90 | 42.80 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 13:45:47 | 48.23 | 43.13 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 13:45:47 | 48.56 | 43.46 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 13:45:47 | 48.88 | 43.78 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:48 | 49.21 | 44.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:48 | 49.54 | 44.44 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:45:48 | 49.87 | 44.77 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:49 | 50.20 | 45.10 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 13:45:49 | 50.53 | 45.43 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:49 | 50.85 | 45.75 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:49 | 51.18 | 46.08 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 13:45:50 | 51.51 | 46.41 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 13:46:04 | 51.84 | 46.74 | 51 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 13:46:05 | 52.17 | 47.07 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 13:46:05 | 52.49 | 47.39 | 271 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 13:46:06 | 52.82 | 47.72 | 392 | 1.14 | 0.29 | 21.4 |
| 5/1/2015 13:46:07 | 53.15 | 48.05 | 578 | 1.14 | 0.29 | 31.6 |
| 5/1/2015 13:46:08 | 53.48 | 48.38 | 602 | 1.14 | 0.29 | 32.9 |
| 5/1/2015 13:46:29 | 53.81 | 48.71 | 6 | 1.14 | 0.29 | 0.3 |
| 5/1/2015 13:46:31 | 54.13 | 49.03 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 13:47:03 | 54.46 | 49.36 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 13:47:08 | 54.79 | 49.69 | 93 | 1.14 | 0.29 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:47:10 | 55.12 | 50.02 | 116 | 1.14 | 0.29 | 6.4 |
| 5/1/2015 | 13:47:13 | 55.45 | 50.35 | 151 | 1.14 | 0.29 | 8.3 |
| 5/1/2015 | 13:47:15 | 55.77 | 50.67 | 166 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 | 13:47:54 | 56.10 | 51.00 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 13:49:01 | 56.43 | 51.33 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 13:49:07 | 56.76 | 51.66 | 68 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 13:49:11 | 57.09 | 51.99 | 89 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 | 13:49:13 | 57.41 | 52.31 | 121 | 1.14 | 0.29 | 6.6 |
| 5/1/2015 | 13:49:15 | 57.74 | 52.64 | 159 | 1.14 | 0.29 | 8.7 |
| 5/1/2015 | 13:49:46 | 58.07 | 52.97 | 42 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 | 13:49:50 | 58.40 | 53.30 | 83 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 13:49:54 | 58.73 | 53.63 | 91 | 1.14 | 0.29 | 5.0 |
| 5/1/2015 | 13:49:58 | 59.06 | 53.96 | 82 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 13:50:02 | 59.38 | 54.28 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 13:50:06 | 59.71 | 54.61 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 13:50:12 | 60.04 | 54.94 | 36 | 1.14 | 0.29 | 2.0 |
| 5/1/2015 | 13:50:15 | 60.34 | 55.24 | 105 | 1.14 | 0.29 | 5.7 |

## L15 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:44:28

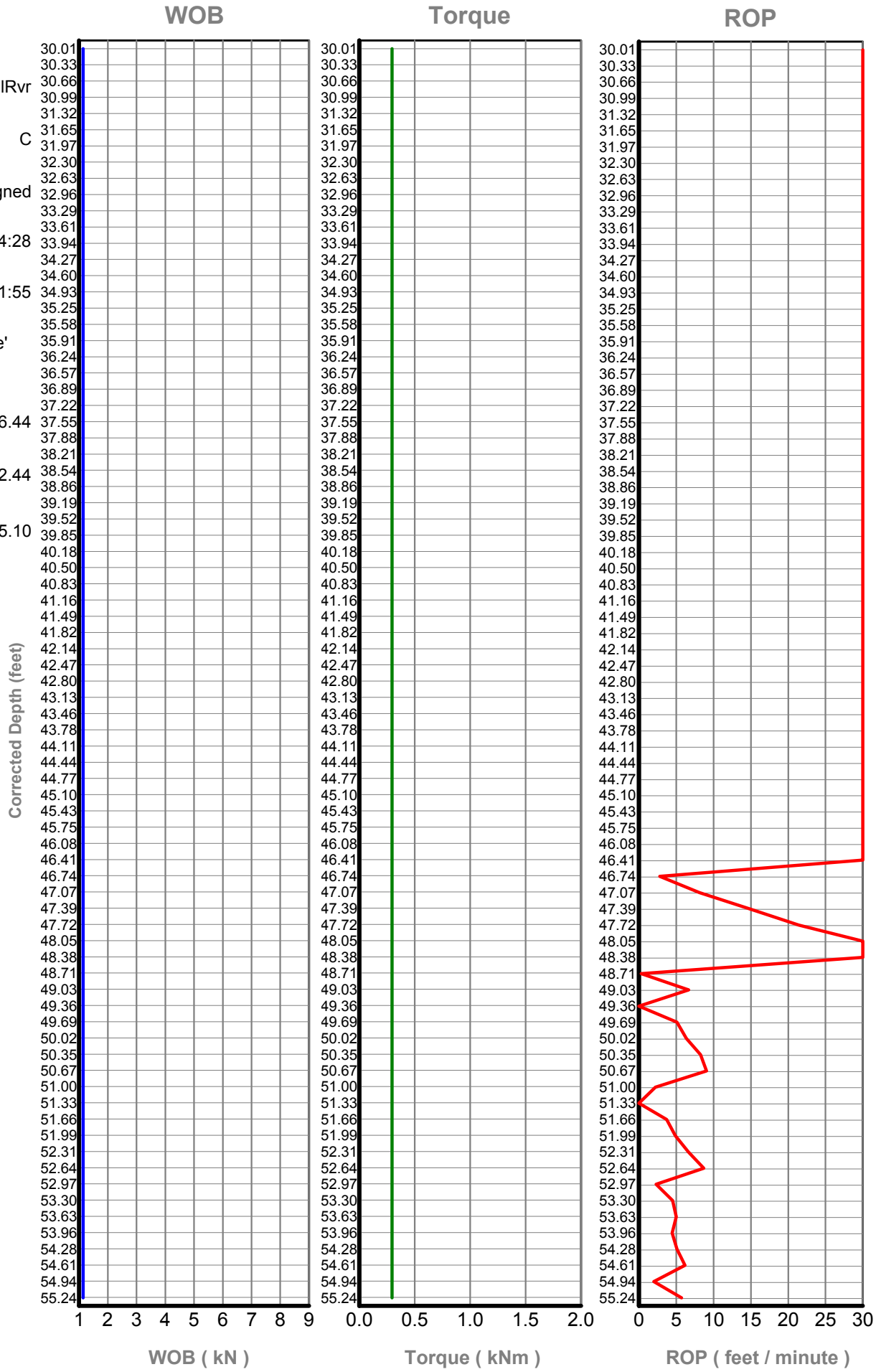
**End Date:**
5/1/2015 13:51:55

**Operator Note:**
'5.1 5.2 c Auto Complete'

**Northing:**
360,016.44

**Easting:**
242,032.44

**Tide (feet):**
5.10



## Hole: L150 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:32:09 | 33.46 | 30.26 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 15:32:10 | 33.79 | 30.59 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 15:32:10 | 34.12 | 30.92 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 15:32:11 | 34.45 | 31.25 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 15:32:11 | 34.78 | 31.58 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 15:32:11 | 35.11 | 31.91 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 15:32:12 | 35.43 | 32.23 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 15:32:12 | 35.76 | 32.56 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 15:32:12 | 36.09 | 32.89 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 15:32:13 | 36.42 | 33.22 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 15:32:13 | 36.75 | 33.55 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 15:32:13 | 37.07 | 33.87 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 15:32:14 | 37.40 | 34.20 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 15:32:14 | 37.73 | 34.53 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 15:32:14 | 38.06 | 34.86 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 15:32:15 | 38.39 | 35.19 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 15:32:15 | 38.71 | 35.51 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 15:32:15 | 39.04 | 35.84 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 15:32:16 | 39.37 | 36.17 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 15:32:16 | 39.70 | 36.50 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:16 | 40.03 | 36.83 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:17 | 40.35 | 37.15 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:17 | 40.68 | 37.48 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:17 | 41.01 | 37.81 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:32:18 | 41.34 | 38.14 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:32:18 | 41.67 | 38.47 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:32:18 | 41.99 | 38.79 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:32:18 | 42.32 | 39.12 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:32:19 | 42.65 | 39.45 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:32:19 | 42.98 | 39.78 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:32:19 | 43.31 | 40.11 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:32:20 | 43.64 | 40.44 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 15:32:20 | 43.96 | 40.76 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 15:32:20 | 44.29 | 41.09 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:32:21 | 44.62 | 41.42 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:21 | 44.95 | 41.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:21 | 45.28 | 42.08 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:32:22 | 45.60 | 42.40 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:23 | 45.93 | 42.73 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:23 | 46.26 | 43.06 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:32:23 | 46.59 | 43.39 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:32:23 | 46.92 | 43.72 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:24 | 47.24 | 44.04 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:24 | 47.57 | 44.37 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:24 | 47.90 | 44.70 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:32:25 | 48.23 | 45.03 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:25 | 48.56 | 45.36 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:25 | 48.88 | 45.68 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:32:26 | 49.21 | 46.01 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:32:26 | 49.54 | 46.34 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:32:26 | 49.87 | 46.67 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 15:32:27 | 50.20 | 47.00 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:27 | 50.53 | 47.33 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:32:27 | 50.85 | 47.65 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 15:32:28 | 51.18 | 47.98 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 15:32:28 | 51.51 | 48.31 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 15:32:28 | 51.84 | 48.64 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 15:32:29 | 52.17 | 48.97 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 15:32:47 | 52.49 | 49.29 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 15:32:47 | 52.82 | 49.62 | 149 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 15:32:48 | 53.15 | 49.95 | 308 | 1.14 | 0.29 | 16.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:32:48 | 53.48 | 50.28 | 308 | 1.14 | 0.29 | 16.9 |
| 5/1/2015 | 15:32:48 | 53.81 | 50.61 | 467 | 1.14 | 0.29 | 25.6 |
| 5/1/2015 | 15:32:49 | 54.13 | 50.93 | 614 | 1.14 | 0.29 | 33.6 |
| 5/1/2015 | 15:32:50 | 54.46 | 51.26 | 720 | 1.14 | 0.29 | 39.4 |
| 5/1/2015 | 15:32:50 | 54.79 | 51.59 | 678 | 1.14 | 0.29 | 37.1 |
| 5/1/2015 | 15:32:51 | 55.12 | 51.92 | 539 | 1.14 | 0.29 | 29.5 |
| 5/1/2015 | 15:32:52 | 55.45 | 52.25 | 492 | 1.14 | 0.29 | 26.9 |
| 5/1/2015 | 15:32:53 | 55.77 | 52.57 | 483 | 1.14 | 0.29 | 26.4 |
| 5/1/2015 | 15:32:53 | 56.10 | 52.90 | 506 | 1.14 | 0.29 | 27.7 |
| 5/1/2015 | 15:32:54 | 56.43 | 53.23 | 555 | 1.14 | 0.29 | 30.4 |
| 5/1/2015 | 15:32:54 | 56.76 | 53.56 | 582 | 1.14 | 0.29 | 31.8 |
| 5/1/2015 | 15:32:55 | 57.09 | 53.89 | 611 | 1.14 | 0.29 | 33.4 |
| 5/1/2015 | 15:32:55 | 57.41 | 54.21 | 629 | 1.14 | 0.29 | 34.4 |
| 5/1/2015 | 15:32:56 | 57.74 | 54.54 | 640 | 1.14 | 0.29 | 35.0 |
| 5/1/2015 | 15:32:56 | 58.07 | 54.87 | 643 | 1.14 | 0.29 | 35.2 |
| 5/1/2015 | 15:32:57 | 58.40 | 55.20 | 590 | 1.14 | 0.29 | 32.3 |
| 5/1/2015 | 15:32:57 | 58.48 | 55.28 | 590 | 1.14 | 0.29 | 32.3 |

## L150 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:30:54

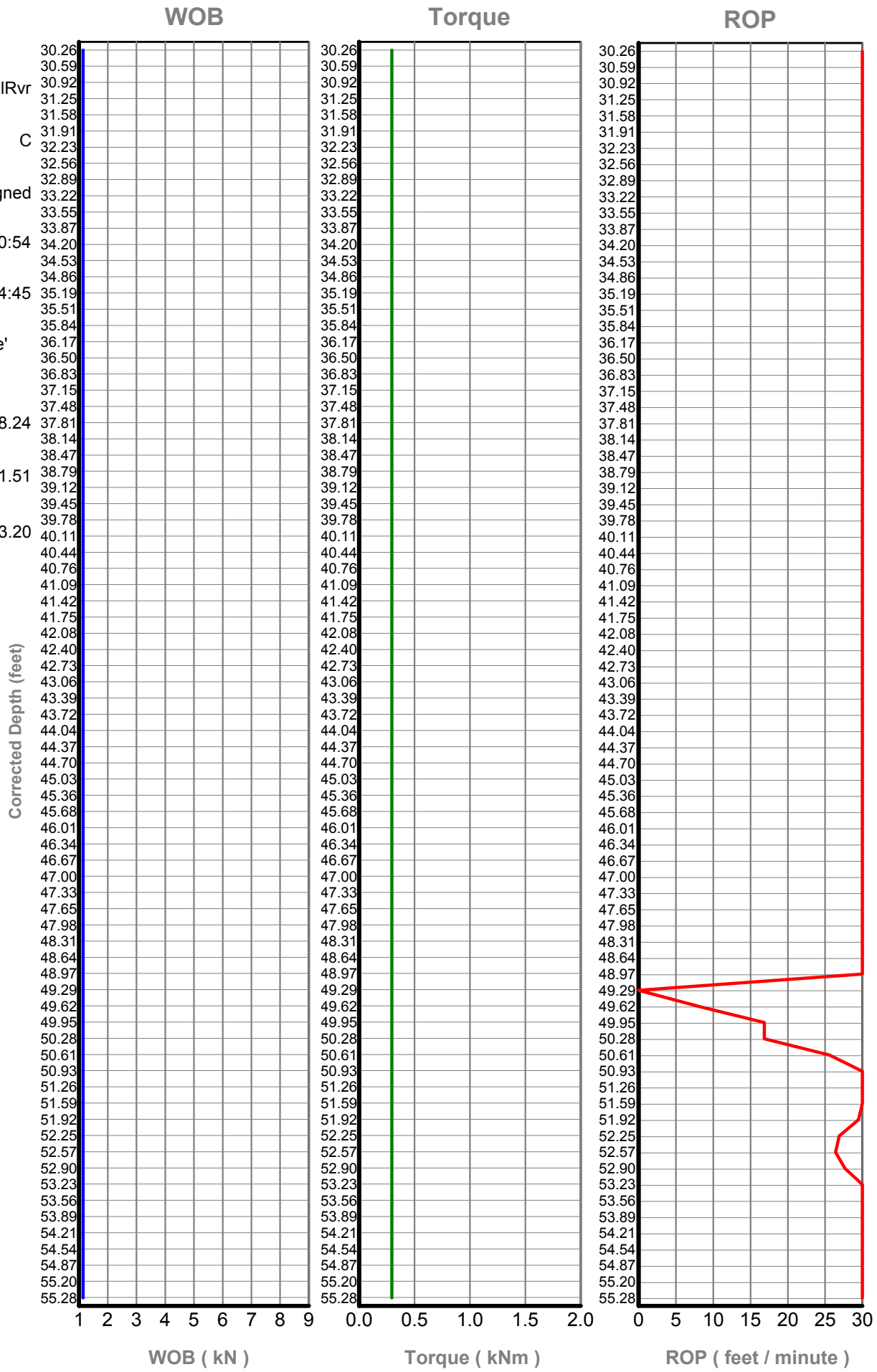
**End Date:**
5/1/2015 15:34:45

**Operator Note:**
'3.2 3.3 c Auto Complete'

**Northing:**
359,508.24

**Easting:**
242,081.51

**Tide (feet):**
3.20



## Hole: L151 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:15:27 | 33.79 | 30.29 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 15:15:28 | 34.12 | 30.62 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 15:15:28 | 34.45 | 30.95 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 15:15:28 | 34.78 | 31.28 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 15:15:29 | 35.11 | 31.61 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 15:15:29 | 35.43 | 31.93 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 15:15:29 | 35.76 | 32.26 | 916 | 1.13 | 0.15 | 50.1 |
| 5/1/2015 15:15:30 | 36.09 | 32.59 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 15:15:30 | 36.42 | 32.92 | 919 | 1.14 | 0.15 | 50.3 |
| 5/1/2015 15:15:31 | 36.75 | 33.25 | 919 | 1.14 | 0.15 | 50.3 |
| 5/1/2015 15:15:31 | 37.07 | 33.57 | 922 | 1.14 | 0.15 | 50.4 |
| 5/1/2015 15:15:31 | 37.40 | 33.90 | 922 | 1.14 | 0.15 | 50.4 |
| 5/1/2015 15:15:32 | 37.73 | 34.23 | 914 | 1.15 | 0.15 | 50.0 |
| 5/1/2015 15:15:32 | 38.06 | 34.56 | 914 | 1.15 | 0.15 | 50.0 |
| 5/1/2015 15:15:32 | 38.39 | 34.89 | 917 | 1.13 | 0.15 | 50.1 |
| 5/1/2015 15:15:33 | 38.71 | 35.21 | 911 | 1.13 | 0.15 | 49.8 |
| 5/1/2015 15:15:34 | 39.04 | 35.54 | 920 | 1.15 | 0.15 | 50.3 |
| 5/1/2015 15:15:34 | 39.37 | 35.87 | 920 | 1.15 | 0.15 | 50.3 |
| 5/1/2015 15:15:34 | 39.70 | 36.20 | 915 | 1.15 | 0.15 | 50.0 |
| 5/1/2015 15:15:35 | 40.03 | 36.53 | 925 | 1.14 | 0.15 | 50.6 |
| 5/1/2015 15:15:35 | 40.35 | 36.85 | 922 | 1.13 | 0.15 | 50.4 |
| 5/1/2015 15:15:36 | 40.68 | 37.18 | 922 | 1.13 | 0.15 | 50.4 |
| 5/1/2015 15:15:36 | 41.01 | 37.51 | 925 | 1.15 | 0.15 | 50.6 |
| 5/1/2015 15:15:36 | 41.34 | 37.84 | 903 | 1.14 | 0.15 | 49.4 |
| 5/1/2015 15:15:37 | 41.67 | 38.17 | 911 | 1.14 | 0.15 | 49.8 |
| 5/1/2015 15:15:37 | 41.99 | 38.49 | 911 | 1.14 | 0.15 | 49.8 |
| 5/1/2015 15:15:37 | 42.32 | 38.82 | 908 | 1.15 | 0.15 | 49.7 |
| 5/1/2015 15:15:38 | 42.65 | 39.15 | 905 | 1.15 | 0.15 | 49.5 |
| 5/1/2015 15:15:38 | 42.98 | 39.48 | 903 | 1.13 | 0.15 | 49.4 |
| 5/1/2015 15:15:39 | 43.31 | 39.81 | 903 | 1.13 | 0.15 | 49.4 |
| 5/1/2015 15:15:39 | 43.64 | 40.14 | 919 | 1.13 | 0.15 | 50.3 |
| 5/1/2015 15:15:39 | 43.96 | 40.46 | 911 | 1.14 | 0.15 | 49.8 |
| 5/1/2015 15:15:40 | 44.29 | 40.79 | 908 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 15:15:40 | 44.62 | 41.12 | 908 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 15:15:40 | 44.95 | 41.45 | 911 | 1.14 | 0.15 | 49.8 |
| 5/1/2015 15:15:41 | 45.28 | 41.78 | 911 | 1.16 | 0.15 | 49.8 |
| 5/1/2015 15:15:41 | 45.60 | 42.10 | 908 | 1.13 | 0.15 | 49.6 |
| 5/1/2015 15:15:42 | 45.93 | 42.43 | 908 | 1.13 | 0.15 | 49.6 |
| 5/1/2015 15:15:42 | 46.26 | 42.76 | 905 | 1.15 | 0.15 | 49.5 |
| 5/1/2015 15:15:42 | 46.59 | 43.09 | 900 | 1.13 | 0.15 | 49.2 |
| 5/1/2015 15:15:43 | 46.92 | 43.42 | 905 | 1.14 | 0.15 | 49.5 |
| 5/1/2015 15:15:44 | 47.24 | 43.74 | 905 | 1.14 | 0.15 | 49.5 |
| 5/1/2015 15:15:43 | 47.57 | 44.07 | 902 | 1.14 | 0.15 | 49.3 |
| 5/1/2015 15:15:44 | 47.90 | 44.40 | 899 | 1.13 | 0.15 | 49.2 |
| 5/1/2015 15:15:45 | 48.23 | 44.73 | 902 | 1.15 | 0.15 | 49.3 |
| 5/1/2015 15:15:45 | 48.56 | 45.06 | 902 | 1.15 | 0.15 | 49.3 |
| 5/1/2015 15:15:45 | 48.88 | 45.38 | 905 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 15:15:46 | 49.21 | 45.71 | 905 | 1.20 | 0.15 | 49.5 |
| 5/1/2015 15:15:46 | 49.54 | 46.04 | 905 | 1.14 | 0.16 | 49.5 |
| 5/1/2015 15:15:47 | 49.87 | 46.37 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:15:47 | 50.20 | 46.70 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:15:47 | 50.53 | 47.03 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 15:15:48 | 50.85 | 47.35 | 902 | 1.15 | 0.15 | 49.3 |
| 5/1/2015 15:15:48 | 51.18 | 47.68 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:15:49 | 51.51 | 48.01 | 899 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 15:15:49 | 51.84 | 48.34 | 899 | 1.20 | 0.16 | 49.2 |
| 5/1/2015 15:15:49 | 52.17 | 48.67 | 868 | 1.22 | 0.15 | 47.4 |
| 5/1/2015 15:15:50 | 52.49 | 48.99 | 723 | 0.29 | 0.10 | 39.5 |
| 5/1/2015 15:16:12 | 52.82 | 49.32 | 36 | 1.17 | 0.73 | 2.0 |
| 5/1/2015 15:16:13 | 53.15 | 49.65 | 131 | 1.15 | 0.75 | 7.1 |
| 5/1/2015 15:16:13 | 53.48 | 49.98 | 243 | 1.16 | 0.71 | 13.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:16:14 | 53.81 | 50.31 | 346 | 1.16 | 0.83 | 18.9 |
| 5/1/2015 | 15:16:16 | 54.13 | 50.63 | 254 | 1.15 | 0.76 | 13.9 |
| 5/1/2015 | 15:16:17 | 54.46 | 50.96 | 195 | 1.15 | 0.76 | 10.6 |
| 5/1/2015 | 15:16:19 | 54.79 | 51.29 | 330 | 1.18 | 0.86 | 18.0 |
| 5/1/2015 | 15:16:21 | 55.12 | 51.62 | 170 | 1.78 | 0.88 | 9.3 |
| 5/1/2015 | 15:16:22 | 55.45 | 51.95 | 190 | 1.11 | 0.79 | 10.4 |
| 5/1/2015 | 15:16:23 | 55.77 | 52.27 | 257 | 1.79 | 0.81 | 14.0 |
| 5/1/2015 | 15:16:24 | 56.10 | 52.60 | 351 | 1.79 | 0.80 | 19.2 |
| 5/1/2015 | 15:16:25 | 56.43 | 52.93 | 391 | 1.80 | 0.80 | 21.4 |
| 5/1/2015 | 15:16:26 | 56.76 | 53.26 | 426 | 1.86 | 0.82 | 23.3 |
| 5/1/2015 | 15:16:27 | 57.09 | 53.59 | 383 | 1.15 | 0.75 | 20.9 |
| 5/1/2015 | 15:16:28 | 57.41 | 53.91 | 356 | 1.07 | 0.77 | 19.5 |
| 5/1/2015 | 15:16:29 | 57.74 | 54.24 | 327 | 1.05 | 0.82 | 17.9 |
| 5/1/2015 | 15:16:30 | 58.07 | 54.57 | 384 | 1.11 | 0.87 | 21.0 |
| 5/1/2015 | 15:16:31 | 58.40 | 54.90 | 428 | 1.12 | 0.92 | 23.4 |
| 5/1/2015 | 15:16:32 | 58.73 | 55.23 | 419 | 1.07 | 0.98 | 22.9 |
| 5/1/2015 | 15:16:32 | 58.95 | 55.45 | 393 | 1.21 | 1.02 | 21.5 |

## L151 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:13:37

**End Date:**
5/1/2015 15:18:18

**Operator Note:**
'3.5 3.6 a Auto Complete'

**Northing:**
359,548.75

**Easting:**
242,147.32

**Tide (feet):**
3.50



## Hole: L152 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:17:35 | 33.79 | 30.29 | 1,133 | 0.39 | 0.38 | 62.0 |
| 5/1/2015 15:17:35 | 34.12 | 30.62 | 1,130 | 0.39 | 0.39 | 61.8 |
| 5/1/2015 15:17:36 | 34.45 | 30.95 | 1,130 | 0.39 | 0.39 | 61.8 |
| 5/1/2015 15:17:36 | 34.78 | 31.28 | 1,133 | 0.39 | 0.38 | 62.0 |
| 5/1/2015 15:17:36 | 35.11 | 31.61 | 1,133 | 0.39 | 0.38 | 62.0 |
| 5/1/2015 15:17:36 | 35.43 | 31.93 | 1,124 | 0.38 | 0.39 | 61.4 |
| 5/1/2015 15:17:37 | 35.76 | 32.26 | 1,124 | 0.39 | 0.39 | 61.4 |
| 5/1/2015 15:17:37 | 36.09 | 32.59 | 1,124 | 0.39 | 0.39 | 61.4 |
| 5/1/2015 15:17:37 | 36.42 | 32.92 | 1,132 | 0.38 | 0.38 | 61.9 |
| 5/1/2015 15:17:38 | 36.75 | 33.25 | 1,132 | 0.38 | 0.38 | 61.9 |
| 5/1/2015 15:17:38 | 37.07 | 33.57 | 1,126 | 0.34 | 0.38 | 61.6 |
| 5/1/2015 15:17:38 | 37.40 | 33.90 | 1,126 | 0.29 | 0.38 | 61.6 |
| 5/1/2015 15:17:39 | 37.73 | 34.23 | 1,126 | 0.29 | 0.38 | 61.6 |
| 5/1/2015 15:17:39 | 38.06 | 34.56 | 1,141 | 0.30 | 0.37 | 62.4 |
| 5/1/2015 15:17:39 | 38.39 | 34.89 | 1,141 | 0.30 | 0.37 | 62.4 |
| 5/1/2015 15:17:39 | 38.71 | 35.21 | 1,166 | 0.21 | 0.36 | 63.7 |
| 5/1/2015 15:17:40 | 39.04 | 35.54 | 1,166 | 0.29 | 0.37 | 63.8 |
| 5/1/2015 15:17:41 | 39.37 | 35.87 | 1,166 | 0.29 | 0.37 | 63.8 |
| 5/1/2015 15:17:41 | 39.70 | 36.20 | 1,174 | 0.29 | 0.38 | 64.2 |
| 5/1/2015 15:17:41 | 40.03 | 36.53 | 1,174 | 0.29 | 0.38 | 64.2 |
| 5/1/2015 15:17:41 | 40.35 | 36.85 | 1,192 | 0.29 | 0.37 | 65.2 |
| 5/1/2015 15:17:42 | 40.68 | 37.18 | 1,192 | 0.29 | 0.37 | 65.2 |
| 5/1/2015 15:17:42 | 41.01 | 37.51 | 1,182 | 0.29 | 0.37 | 64.7 |
| 5/1/2015 15:17:42 | 41.34 | 37.84 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 15:17:43 | 41.67 | 38.17 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 15:17:43 | 41.99 | 38.49 | 1,184 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 15:17:43 | 42.32 | 38.82 | 1,184 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 15:17:43 | 42.65 | 39.15 | 1,189 | 0.34 | 0.38 | 65.0 |
| 5/1/2015 15:17:44 | 42.98 | 39.48 | 1,180 | 0.26 | 0.37 | 64.5 |
| 5/1/2015 15:17:44 | 43.31 | 39.81 | 1,180 | 0.26 | 0.37 | 64.5 |
| 5/1/2015 15:17:44 | 43.64 | 40.14 | 1,163 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 15:17:45 | 43.96 | 40.46 | 1,163 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 15:17:45 | 44.29 | 40.79 | 1,152 | 0.32 | 0.38 | 63.0 |
| 5/1/2015 15:17:45 | 44.62 | 41.12 | 1,152 | 0.32 | 0.38 | 63.0 |
| 5/1/2015 15:17:45 | 44.95 | 41.45 | 1,152 | 0.33 | 0.37 | 63.0 |
| 5/1/2015 15:17:46 | 45.28 | 41.78 | 1,186 | 0.38 | 0.40 | 64.9 |
| 5/1/2015 15:17:46 | 45.60 | 42.10 | 1,186 | 0.38 | 0.40 | 64.9 |
| 5/1/2015 15:17:46 | 45.93 | 42.43 | 1,180 | 0.31 | 0.36 | 64.5 |
| 5/1/2015 15:17:47 | 46.26 | 42.76 | 1,180 | 0.31 | 0.36 | 64.5 |
| 5/1/2015 15:17:47 | 46.59 | 43.09 | 1,179 | 0.29 | 0.37 | 64.5 |
| 5/1/2015 15:17:47 | 46.92 | 43.42 | 1,179 | 0.29 | 0.37 | 64.5 |
| 5/1/2015 15:17:47 | 47.24 | 43.74 | 1,207 | 0.33 | 0.37 | 66.0 |
| 5/1/2015 15:17:48 | 47.57 | 44.07 | 1,186 | 0.33 | 0.38 | 64.9 |
| 5/1/2015 15:17:48 | 47.90 | 44.40 | 1,186 | 0.33 | 0.38 | 64.9 |
| 5/1/2015 15:17:48 | 48.23 | 44.73 | 1,173 | 0.33 | 0.38 | 64.2 |
| 5/1/2015 15:17:49 | 48.56 | 45.06 | 1,173 | 0.33 | 0.38 | 64.2 |
| 5/1/2015 15:17:49 | 48.88 | 45.38 | 1,173 | 0.32 | 0.37 | 64.2 |
| 5/1/2015 15:17:49 | 49.21 | 45.71 | 1,173 | 0.32 | 0.37 | 64.2 |
| 5/1/2015 15:17:50 | 49.54 | 46.04 | 1,190 | 0.31 | 0.36 | 65.1 |
| 5/1/2015 15:17:50 | 49.87 | 46.37 | 1,173 | 0.30 | 0.36 | 64.2 |
| 5/1/2015 15:17:50 | 50.20 | 46.70 | 1,173 | 0.30 | 0.36 | 64.2 |
| 5/1/2015 15:17:51 | 50.53 | 47.03 | 1,173 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 15:17:51 | 50.85 | 47.35 | 1,173 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 15:17:51 | 51.18 | 47.68 | 1,173 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 15:17:52 | 51.51 | 48.01 | 1,173 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 15:17:52 | 51.84 | 48.34 | 1,173 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 15:17:52 | 52.17 | 48.67 | 1,216 | 0.29 | 0.39 | 66.5 |
| 5/1/2015 15:17:53 | 52.49 | 48.99 | 1,216 | 0.29 | 0.39 | 66.5 |
| 5/1/2015 15:18:03 | 52.82 | 49.32 | 0 | 2.98 | 0.43 | 0.0 |
| 5/1/2015 15:18:04 | 53.15 | 49.65 | 0 | 3.07 | 0.45 | 0.0 |
| 5/1/2015 15:18:08 | 53.48 | 49.98 | 76 | 4.21 | 0.43 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 15:18:09 | 53.81 | 50.31 | 98 | 4.21 | 0.43 | 5.4 |
| 5/1/2015 | 15:18:09 | 54.13 | 50.63 | 194 | 3.58 | 0.43 | 10.6 |
| 5/1/2015 | 15:18:11 | 54.46 | 50.96 | 268 | 3.69 | 0.44 | 14.6 |
| 5/1/2015 | 15:18:25 | 54.79 | 51.29 | 20 | 2.95 | 0.47 | 1.1 |
| 5/1/2015 | 15:18:29 | 55.12 | 51.62 | 109 | 2.28 | 0.42 | 5.9 |
| 5/1/2015 | 15:18:30 | 55.45 | 51.95 | 231 | 2.42 | 0.42 | 12.6 |
| 5/1/2015 | 15:18:35 | 55.77 | 52.27 | 0 | 3.03 | 0.43 | 0.0 |
| 5/1/2015 | 15:18:36 | 56.10 | 52.60 | 178 | 2.80 | 0.44 | 9.8 |
| 5/1/2015 | 15:18:37 | 56.43 | 52.93 | 214 | 2.23 | 0.42 | 11.7 |
| 5/1/2015 | 15:18:38 | 56.76 | 53.26 | 365 | 2.18 | 0.41 | 20.0 |
| 5/1/2015 | 15:18:38 | 57.09 | 53.59 | 456 | 2.10 | 0.42 | 25.0 |
| 5/1/2015 | 15:18:39 | 57.41 | 53.91 | 556 | 2.44 | 0.42 | 30.4 |
| 5/1/2015 | 15:18:39 | 57.74 | 54.24 | 650 | 2.41 | 0.42 | 35.5 |
| 5/1/2015 | 15:18:40 | 58.07 | 54.57 | 659 | 2.42 | 0.42 | 36.0 |
| 5/1/2015 | 15:18:40 | 58.40 | 54.90 | 645 | 2.45 | 0.43 | 35.3 |
| 5/1/2015 | 15:18:40 | 58.54 | 55.04 | 645 | 2.45 | 0.43 | 35.3 |

## L152 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:15:45

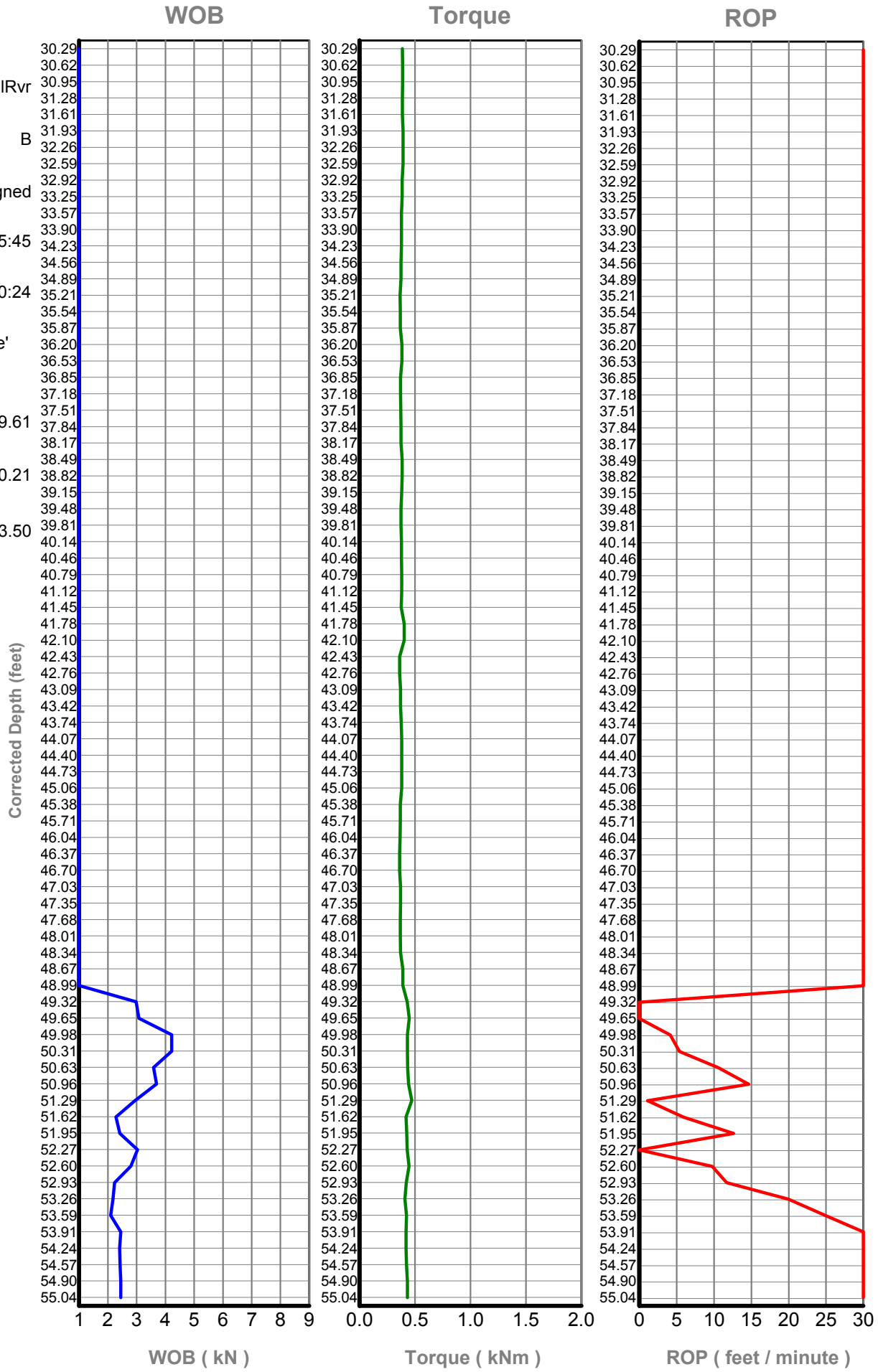
**End Date:**
5/1/2015 15:20:24

**Operator Note:**
'3.5 3.5 b Auto Complete'

**Northing:**
359,589.61

**Easting:**
242,210.21

**Tide (feet):**
3.50



## Hole: L153 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:15:01 | 33.79 | 30.29 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:15:02 | 34.12 | 30.62 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 15:15:02 | 34.45 | 30.95 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:15:03 | 34.78 | 31.28 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 15:15:02 | 35.11 | 31.61 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 15:15:03 | 35.43 | 31.93 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 15:15:04 | 35.76 | 32.26 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 15:15:04 | 36.09 | 32.59 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:15:04 | 36.42 | 32.92 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:15:05 | 36.75 | 33.25 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 15:15:05 | 37.07 | 33.57 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:05 | 37.40 | 33.90 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:05 | 37.73 | 34.23 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 15:15:06 | 38.06 | 34.56 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:15:06 | 38.39 | 34.89 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:15:06 | 38.71 | 35.21 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:15:07 | 39.04 | 35.54 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:15:07 | 39.37 | 35.87 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 15:15:07 | 39.70 | 36.20 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:08 | 40.03 | 36.53 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:08 | 40.35 | 36.85 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:08 | 40.68 | 37.18 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 15:15:09 | 41.01 | 37.51 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 15:15:09 | 41.34 | 37.84 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 15:15:09 | 41.67 | 38.17 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:15:10 | 41.99 | 38.49 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:15:10 | 42.32 | 38.82 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:15:10 | 42.65 | 39.15 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:15:11 | 42.98 | 39.48 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:15:11 | 43.31 | 39.81 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:11 | 43.64 | 40.14 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 15:15:12 | 43.96 | 40.46 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 15:15:12 | 44.29 | 40.79 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 15:15:12 | 44.62 | 41.12 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 15:15:12 | 44.95 | 41.45 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 15:15:13 | 45.28 | 41.78 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 15:15:13 | 45.60 | 42.10 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 15:15:13 | 45.93 | 42.43 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:14 | 46.26 | 42.76 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:15:15 | 46.59 | 43.09 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 15:15:15 | 46.92 | 43.42 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:15 | 47.24 | 43.74 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:15 | 47.57 | 44.07 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 15:15:16 | 47.90 | 44.40 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 15:15:16 | 48.23 | 44.73 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 15:15:16 | 48.56 | 45.06 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:17 | 48.88 | 45.38 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:17 | 49.21 | 45.71 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 15:15:17 | 49.54 | 46.04 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 15:15:18 | 49.87 | 46.37 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:15:18 | 50.20 | 46.70 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:15:18 | 50.53 | 47.03 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 15:15:19 | 50.85 | 47.35 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 15:15:19 | 51.18 | 47.68 | 914 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 15:15:20 | 51.51 | 48.01 | 914 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 15:15:20 | 51.84 | 48.34 | 838 | 1.14 | 0.29 | 45.8 |
| 5/1/2015 15:15:21 | 52.17 | 48.67 | 737 | 1.14 | 0.29 | 40.3 |
| 5/1/2015 15:15:44 | 52.49 | 48.99 | 74 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 15:15:44 | 52.82 | 49.32 | 206 | 1.14 | 0.29 | 11.3 |
| 5/1/2015 15:15:45 | 53.15 | 49.65 | 300 | 1.14 | 0.29 | 16.4 |
| 5/1/2015 15:15:46 | 53.48 | 49.98 | 486 | 1.14 | 0.29 | 26.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 15:15:46 | 53.81 | 50.31 | 475 | 1.14 | 0.29 | 26.0 |
| 5/1/2015 15:15:48 | 54.13 | 50.63 | 365 | 1.14 | 0.29 | 20.0 |
| 5/1/2015 15:15:49 | 54.46 | 50.96 | 351 | 1.14 | 0.29 | 19.2 |
| 5/1/2015 15:15:49 | 54.79 | 51.29 | 337 | 1.14 | 0.29 | 18.4 |
| 5/1/2015 15:15:51 | 55.12 | 51.62 | 370 | 1.14 | 0.29 | 20.2 |
| 5/1/2015 15:15:52 | 55.45 | 51.95 | 405 | 1.14 | 0.29 | 22.1 |
| 5/1/2015 15:15:53 | 55.77 | 52.27 | 387 | 1.14 | 0.29 | 21.2 |
| 5/1/2015 15:15:54 | 56.10 | 52.60 | 387 | 1.14 | 0.29 | 21.2 |
| 5/1/2015 15:15:54 | 56.43 | 52.93 | 393 | 1.14 | 0.29 | 21.5 |
| 5/1/2015 15:15:55 | 56.76 | 53.26 | 438 | 1.14 | 0.29 | 24.0 |
| 5/1/2015 15:15:55 | 57.09 | 53.59 | 438 | 1.14 | 0.29 | 24.0 |
| 5/1/2015 15:15:57 | 57.41 | 53.91 | 283 | 1.14 | 0.29 | 15.5 |
| 5/1/2015 15:15:59 | 57.74 | 54.24 | 198 | 1.14 | 0.29 | 10.8 |
| 5/1/2015 15:16:07 | 58.07 | 54.57 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 15:16:08 | 58.40 | 54.90 | 157 | 1.14 | 0.29 | 8.6 |
| 5/1/2015 15:16:11 | 58.64 | 55.14 | 220 | 1.14 | 0.29 | 12.0 |

## L153 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:13:50

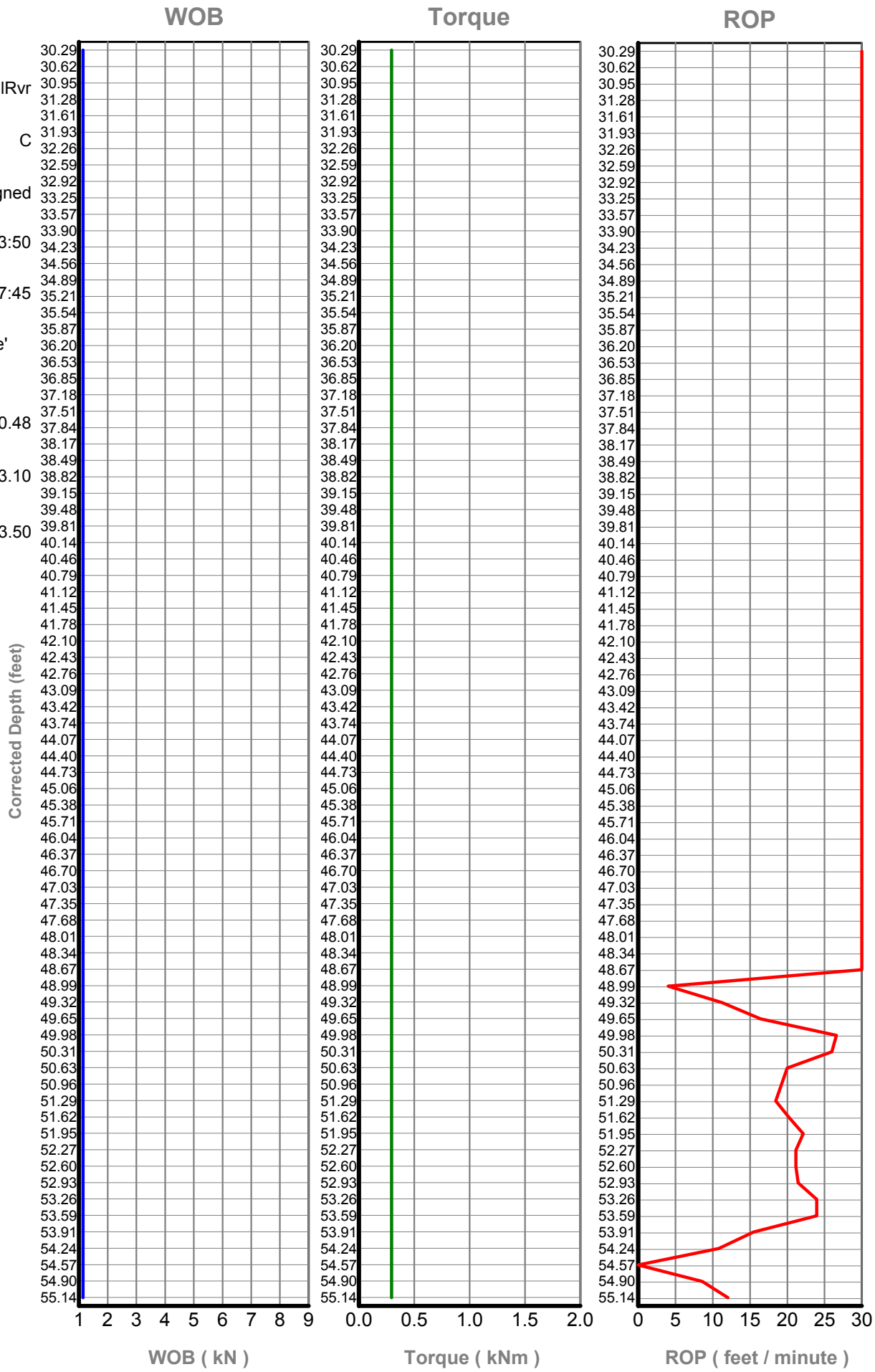
**End Date:**
5/1/2015 15:17:45

**Operator Note:**
'3.5 3.6 c Auto Complete'

**Northing:**
359,630.48

**Easting:**
242,273.10

**Tide (feet):**
3.50



## Hole: L154 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:40:52 | 31.17 | 30.07 | 755 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:40:53 | 31.50 | 30.40 | 764 | 1.11 | 0.20 | 41.8 |
| 5/1/2015 5:40:53 | 31.82 | 30.72 | 764 | 1.10 | 0.20 | 41.8 |
| 5/1/2015 5:40:54 | 32.15 | 31.05 | 753 | 1.10 | 0.20 | 41.2 |
| 5/1/2015 5:40:54 | 32.48 | 31.38 | 753 | 1.10 | 0.20 | 41.2 |
| 5/1/2015 5:40:55 | 32.81 | 31.71 | 758 | 1.10 | 0.20 | 41.5 |
| 5/1/2015 5:40:55 | 33.14 | 32.04 | 774 | 1.10 | 0.20 | 42.3 |
| 5/1/2015 5:40:56 | 33.46 | 32.36 | 764 | 1.10 | 0.20 | 41.8 |
| 5/1/2015 5:40:56 | 33.79 | 32.69 | 761 | 1.13 | 0.20 | 41.6 |
| 5/1/2015 5:40:57 | 34.12 | 33.02 | 768 | 1.10 | 0.20 | 42.0 |
| 5/1/2015 5:40:57 | 34.45 | 33.35 | 763 | 1.11 | 0.20 | 41.7 |
| 5/1/2015 5:40:58 | 34.78 | 33.68 | 760 | 1.10 | 0.20 | 41.6 |
| 5/1/2015 5:40:58 | 35.11 | 34.01 | 760 | 1.11 | 0.20 | 41.6 |
| 5/1/2015 5:40:59 | 35.43 | 34.33 | 756 | 1.11 | 0.20 | 41.3 |
| 5/1/2015 5:40:59 | 35.76 | 34.66 | 756 | 1.11 | 0.20 | 41.3 |
| 5/1/2015 5:40:59 | 36.09 | 34.99 | 762 | 1.10 | 0.19 | 41.7 |
| 5/1/2015 5:41:00 | 36.42 | 35.32 | 754 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:00 | 36.75 | 35.65 | 754 | 1.11 | 0.20 | 41.3 |
| 5/1/2015 5:41:01 | 37.07 | 35.97 | 752 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 5:41:01 | 37.40 | 36.30 | 759 | 1.07 | 0.20 | 41.5 |
| 5/1/2015 5:41:02 | 37.73 | 36.63 | 755 | 1.09 | 0.20 | 41.3 |
| 5/1/2015 5:41:02 | 38.06 | 36.96 | 757 | 1.10 | 0.20 | 41.4 |
| 5/1/2015 5:41:03 | 38.39 | 37.29 | 756 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:03 | 38.71 | 37.61 | 759 | 1.10 | 0.20 | 41.5 |
| 5/1/2015 5:41:04 | 39.04 | 37.94 | 759 | 1.10 | 0.20 | 41.5 |
| 5/1/2015 5:41:04 | 39.37 | 38.27 | 756 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:04 | 39.70 | 38.60 | 760 | 1.11 | 0.20 | 41.6 |
| 5/1/2015 5:41:05 | 40.03 | 38.93 | 760 | 1.11 | 0.20 | 41.6 |
| 5/1/2015 5:41:06 | 40.35 | 39.25 | 762 | 1.10 | 0.20 | 41.6 |
| 5/1/2015 5:41:06 | 40.68 | 39.58 | 759 | 1.10 | 0.20 | 41.5 |
| 5/1/2015 5:41:07 | 41.01 | 39.91 | 754 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:07 | 41.34 | 40.24 | 754 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:08 | 41.67 | 40.57 | 754 | 1.09 | 0.20 | 41.3 |
| 5/1/2015 5:41:08 | 41.99 | 40.89 | 751 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 5:41:09 | 42.32 | 41.22 | 751 | 1.09 | 0.20 | 41.1 |
| 5/1/2015 5:41:09 | 42.65 | 41.55 | 751 | 1.10 | 0.20 | 41.1 |
| 5/1/2015 5:41:10 | 42.98 | 41.88 | 751 | 1.10 | 0.20 | 41.1 |
| 5/1/2015 5:41:10 | 43.31 | 42.21 | 754 | 1.10 | 0.20 | 41.3 |
| 5/1/2015 5:41:10 | 43.64 | 42.54 | 749 | 1.12 | 0.20 | 40.9 |
| 5/1/2015 5:41:11 | 43.96 | 42.86 | 743 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 5:41:11 | 44.29 | 43.19 | 752 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 5:41:12 | 44.62 | 43.52 | 752 | 1.09 | 0.20 | 41.1 |
| 5/1/2015 5:41:12 | 44.95 | 43.85 | 749 | 1.11 | 0.20 | 41.0 |
| 5/1/2015 5:41:13 | 45.28 | 44.18 | 752 | 1.11 | 0.20 | 41.1 |
| 5/1/2015 5:41:13 | 45.60 | 44.50 | 754 | 1.11 | 0.20 | 41.2 |
| 5/1/2015 5:41:14 | 45.93 | 44.83 | 752 | 1.10 | 0.20 | 41.1 |
| 5/1/2015 5:41:14 | 46.26 | 45.16 | 749 | 1.10 | 0.20 | 40.9 |
| 5/1/2015 5:41:15 | 46.59 | 45.49 | 749 | 1.10 | 0.20 | 40.9 |
| 5/1/2015 5:41:15 | 46.92 | 45.82 | 749 | 1.11 | 0.20 | 40.9 |
| 5/1/2015 5:41:16 | 47.24 | 46.14 | 738 | 1.09 | 0.20 | 40.4 |
| 5/1/2015 5:41:16 | 47.57 | 46.47 | 753 | 1.09 | 0.20 | 41.2 |
| 5/1/2015 5:41:17 | 47.90 | 46.80 | 731 | 1.10 | 0.20 | 40.0 |
| 5/1/2015 5:41:17 | 48.23 | 47.13 | 731 | 1.11 | 0.20 | 40.0 |
| 5/1/2015 5:41:18 | 48.56 | 47.46 | 742 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 5:41:18 | 48.88 | 47.78 | 742 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 5:41:19 | 49.21 | 48.11 | 750 | 1.10 | 0.20 | 41.0 |
| 5/1/2015 5:41:19 | 49.54 | 48.44 | 742 | 1.11 | 0.20 | 40.6 |
| 5/1/2015 5:41:20 | 49.87 | 48.77 | 756 | 1.09 | 0.20 | 41.4 |
| 5/1/2015 5:41:20 | 50.20 | 49.10 | 749 | 1.09 | 0.20 | 40.9 |
| 5/1/2015 5:41:21 | 50.53 | 49.43 | 746 | 1.11 | 0.20 | 40.8 |
| 5/1/2015 5:41:21 | 50.85 | 49.75 | 746 | 1.11 | 0.20 | 40.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:41:21 | 51.18 | 50.08 | 746 | 1.09 | 0.20 | 40.8 |
| 5/1/2015 | 5:41:22 | 51.51 | 50.41 | 741 | 1.10 | 0.19 | 40.5 |
| 5/1/2015 | 5:41:30 | 51.84 | 50.74 | 21 | 1.62 | 0.24 | 1.1 |
| 5/1/2015 | 5:41:31 | 52.17 | 51.07 | 229 | 1.57 | 0.24 | 12.5 |
| 5/1/2015 | 5:41:31 | 52.49 | 51.39 | 229 | 1.57 | 0.24 | 12.5 |
| 5/1/2015 | 5:41:31 | 52.82 | 51.72 | 438 | 1.59 | 0.24 | 23.9 |
| 5/1/2015 | 5:41:32 | 53.15 | 52.05 | 647 | 1.64 | 0.24 | 35.4 |
| 5/1/2015 | 5:41:32 | 53.48 | 52.38 | 647 | 1.64 | 0.24 | 35.4 |
| 5/1/2015 | 5:41:32 | 53.81 | 52.71 | 844 | 1.66 | 0.24 | 46.1 |
| 5/1/2015 | 5:41:33 | 54.13 | 53.03 | 1,005 | 1.79 | 0.24 | 55.0 |
| 5/1/2015 | 5:41:34 | 54.46 | 53.36 | 719 | 1.12 | 1.02 | 39.3 |
| 5/1/2015 | 5:41:44 | 54.79 | 53.69 | 0 | 1.11 | 1.29 | 0.0 |
| 5/1/2015 | 5:41:46 | 55.12 | 54.02 | 115 | 1.15 | 1.23 | 6.3 |
| 5/1/2015 | 5:41:47 | 55.45 | 54.35 | 177 | 1.13 | 0.84 | 9.7 |
| 5/1/2015 | 5:41:48 | 55.77 | 54.67 | 342 | 1.15 | 0.95 | 18.7 |
| 5/1/2015 | 5:41:49 | 56.10 | 55.00 | 418 | 1.22 | 1.16 | 22.9 |
| 5/1/2015 | 5:41:50 | 56.43 | 55.33 | 293 | 1.15 | 1.22 | 16.0 |
| 5/1/2015 | 5:41:51 | 56.76 | 55.66 | 261 | 1.11 | 1.01 | 14.3 |
| 5/1/2015 | 5:41:52 | 57.09 | 55.99 | 288 | 1.15 | 1.04 | 15.8 |
| 5/1/2015 | 5:41:54 | 57.41 | 56.31 | 207 | 1.20 | 1.11 | 11.3 |
| 5/1/2015 | 5:41:57 | 57.74 | 56.64 | 137 | 1.19 | 1.02 | 7.5 |
| 5/1/2015 | 5:42:00 | 58.07 | 56.97 | 129 | 1.17 | 1.06 | 7.1 |
| 5/1/2015 | 5:42:00 | 58.11 | 57.01 | 129 | 1.17 | 1.06 | 7.1 |

## L154 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 5:39:14

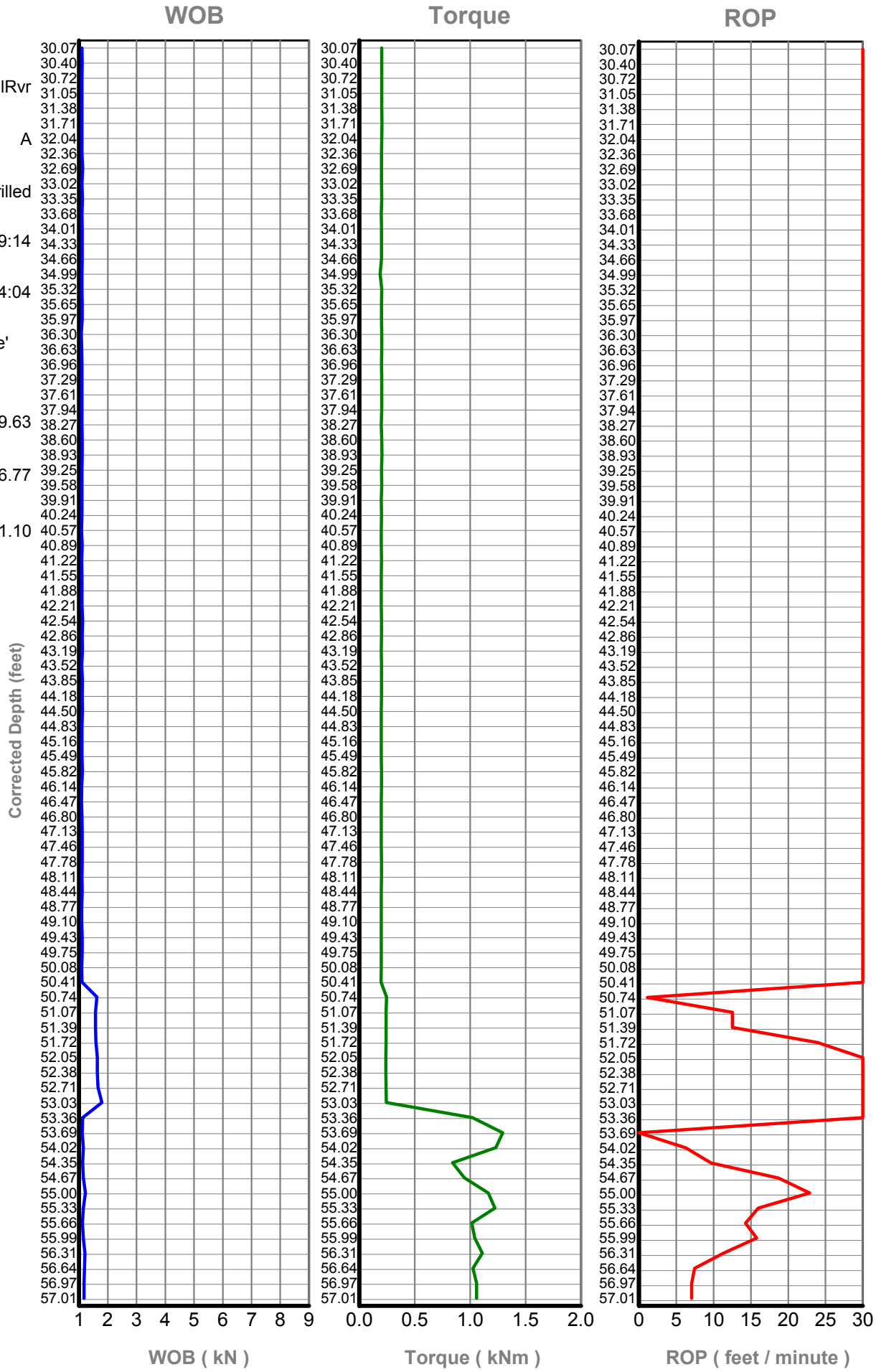
**End Date:**
5/1/2015 5:44:04

**Operator Note:**
'1.1 1.4 a Auto Complete'

**Northing:**
359,679.63

**Easting:**
242,336.77

**Tide (feet):**
1.10



## Hole: L155 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:35:58 | 31.50 | 30.30 | 1,079 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 5:35:58 | 31.82 | 30.62 | 1,079 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 5:35:58 | 32.15 | 30.95 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:35:59 | 32.48 | 31.28 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:35:59 | 32.81 | 31.61 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:35:59 | 33.14 | 31.94 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 5:36:00 | 33.46 | 32.26 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 5:36:00 | 33.79 | 32.59 | 1,074 | 0.35 | 0.38 | 58.7 |
| 5/1/2015 5:36:00 | 34.12 | 32.92 | 1,090 | 0.35 | 0.39 | 59.6 |
| 5/1/2015 5:36:01 | 34.45 | 33.25 | 1,090 | 0.35 | 0.39 | 59.6 |
| 5/1/2015 5:36:01 | 34.78 | 33.58 | 1,059 | 0.35 | 0.38 | 57.9 |
| 5/1/2015 5:36:01 | 35.11 | 33.91 | 1,059 | 0.35 | 0.38 | 57.9 |
| 5/1/2015 5:36:02 | 35.43 | 34.23 | 1,059 | 0.35 | 0.38 | 57.9 |
| 5/1/2015 5:36:02 | 35.76 | 34.56 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/1/2015 5:36:02 | 36.09 | 34.89 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/1/2015 5:36:02 | 36.42 | 35.22 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 5:36:03 | 36.75 | 35.55 | 1,064 | 0.35 | 0.39 | 58.2 |
| 5/1/2015 5:36:03 | 37.07 | 35.87 | 1,064 | 0.35 | 0.39 | 58.2 |
| 5/1/2015 5:36:03 | 37.40 | 36.20 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 5:36:04 | 37.73 | 36.53 | 1,096 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 5:36:04 | 38.06 | 36.86 | 1,096 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 5:36:05 | 38.39 | 37.19 | 1,082 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 5:36:05 | 38.71 | 37.51 | 1,064 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 5:36:06 | 39.04 | 37.84 | 1,064 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 5:36:06 | 39.37 | 38.17 | 1,089 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 5:36:06 | 39.70 | 38.50 | 1,089 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 5:36:06 | 40.03 | 38.83 | 1,102 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 5:36:07 | 40.35 | 39.15 | 1,096 | 0.35 | 0.38 | 59.9 |
| 5/1/2015 5:36:07 | 40.68 | 39.48 | 1,096 | 0.35 | 0.38 | 59.9 |
| 5/1/2015 5:36:07 | 41.01 | 39.81 | 1,099 | 0.35 | 0.38 | 60.1 |
| 5/1/2015 5:36:08 | 41.34 | 40.14 | 1,116 | 0.35 | 0.38 | 61.0 |
| 5/1/2015 5:36:08 | 41.67 | 40.47 | 1,116 | 0.35 | 0.38 | 61.0 |
| 5/1/2015 5:36:08 | 41.99 | 40.79 | 1,096 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 5:36:09 | 42.32 | 41.12 | 1,096 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 5:36:09 | 42.65 | 41.45 | 1,074 | 0.35 | 0.38 | 58.7 |
| 5/1/2015 5:36:09 | 42.98 | 41.78 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:36:10 | 43.31 | 42.11 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:36:10 | 43.64 | 42.44 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 5:36:10 | 43.96 | 42.76 | 1,080 | 0.35 | 0.38 | 59.0 |
| 5/1/2015 5:36:11 | 44.29 | 43.09 | 1,080 | 0.35 | 0.38 | 59.0 |
| 5/1/2015 5:36:11 | 44.62 | 43.42 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 5:36:11 | 44.95 | 43.75 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 5:36:11 | 45.28 | 44.08 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 5:36:12 | 45.60 | 44.40 | 1,081 | 0.35 | 0.37 | 59.1 |
| 5/1/2015 5:36:12 | 45.93 | 44.73 | 1,081 | 0.35 | 0.37 | 59.1 |
| 5/1/2015 5:36:12 | 46.26 | 45.06 | 1,081 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 5:36:13 | 46.59 | 45.39 | 1,103 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 5:36:13 | 46.92 | 45.72 | 1,103 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 5:36:13 | 47.24 | 46.04 | 1,091 | 0.35 | 0.38 | 59.7 |
| 5/1/2015 5:36:14 | 47.57 | 46.37 | 1,091 | 0.35 | 0.38 | 59.7 |
| 5/1/2015 5:36:14 | 47.90 | 46.70 | 1,112 | 0.35 | 0.38 | 60.8 |
| 5/1/2015 5:36:14 | 48.23 | 47.03 | 1,102 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 5:36:15 | 48.56 | 47.36 | 1,102 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 5:36:15 | 48.88 | 47.68 | 1,115 | 0.35 | 0.38 | 61.0 |
| 5/1/2015 5:36:16 | 49.21 | 48.01 | 1,079 | 0.33 | 0.40 | 59.0 |
| 5/1/2015 5:36:16 | 49.54 | 48.34 | 1,079 | 0.33 | 0.40 | 59.0 |
| 5/1/2015 5:36:25 | 49.87 | 48.67 | 0 | 3.39 | 0.43 | 0.0 |
| 5/1/2015 5:36:27 | 50.20 | 49.00 | 107 | 7.34 | 0.48 | 5.8 |
| 5/1/2015 5:36:31 | 50.53 | 49.33 | 69 | 3.98 | 0.44 | 3.8 |
| 5/1/2015 5:36:31 | 50.85 | 49.65 | 113 | 3.58 | 0.43 | 6.2 |
| 5/1/2015 5:36:32 | 51.18 | 49.98 | 113 | 2.93 | 0.40 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:36:32 | 51.51 | 50.31 | 261 | 2.95 | 0.40 | 14.3 |
| 5/1/2015 | 5:36:33 | 51.84 | 50.64 | 427 | 3.34 | 0.42 | 23.3 |
| 5/1/2015 | 5:36:33 | 52.17 | 50.97 | 567 | 4.15 | 0.44 | 31.0 |
| 5/1/2015 | 5:36:36 | 52.49 | 51.29 | 328 | 5.29 | 0.48 | 17.9 |
| 5/1/2015 | 5:36:38 | 52.82 | 51.62 | 142 | 4.17 | 0.46 | 7.8 |
| 5/1/2015 | 5:36:39 | 53.15 | 51.95 | 160 | 4.00 | 0.44 | 8.8 |
| 5/1/2015 | 5:36:40 | 53.48 | 52.28 | 237 | 3.62 | 0.46 | 13.0 |
| 5/1/2015 | 5:36:42 | 53.81 | 52.61 | 291 | 4.53 | 0.46 | 15.9 |
| 5/1/2015 | 5:37:00 | 54.13 | 52.93 | 21 | 4.17 | 0.47 | 1.1 |
| 5/1/2015 | 5:37:04 | 54.46 | 53.26 | 64 | 4.21 | 0.44 | 3.5 |
| 5/1/2015 | 5:37:05 | 54.79 | 53.59 | 241 | 3.94 | 0.44 | 13.2 |
| 5/1/2015 | 5:37:05 | 55.12 | 53.92 | 320 | 3.45 | 0.44 | 17.5 |
| 5/1/2015 | 5:37:07 | 55.45 | 54.25 | 373 | 3.33 | 0.44 | 20.4 |
| 5/1/2015 | 5:37:08 | 55.77 | 54.57 | 327 | 2.77 | 0.44 | 17.9 |
| 5/1/2015 | 5:37:10 | 56.10 | 54.90 | 296 | 3.26 | 0.45 | 16.2 |
| 5/1/2015 | 5:37:10 | 56.43 | 55.23 | 299 | 2.95 | 0.44 | 16.3 |
| 5/1/2015 | 5:37:10 | 56.49 | 55.29 | 299 | 2.95 | 0.44 | 16.3 |

## L155 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:34:16

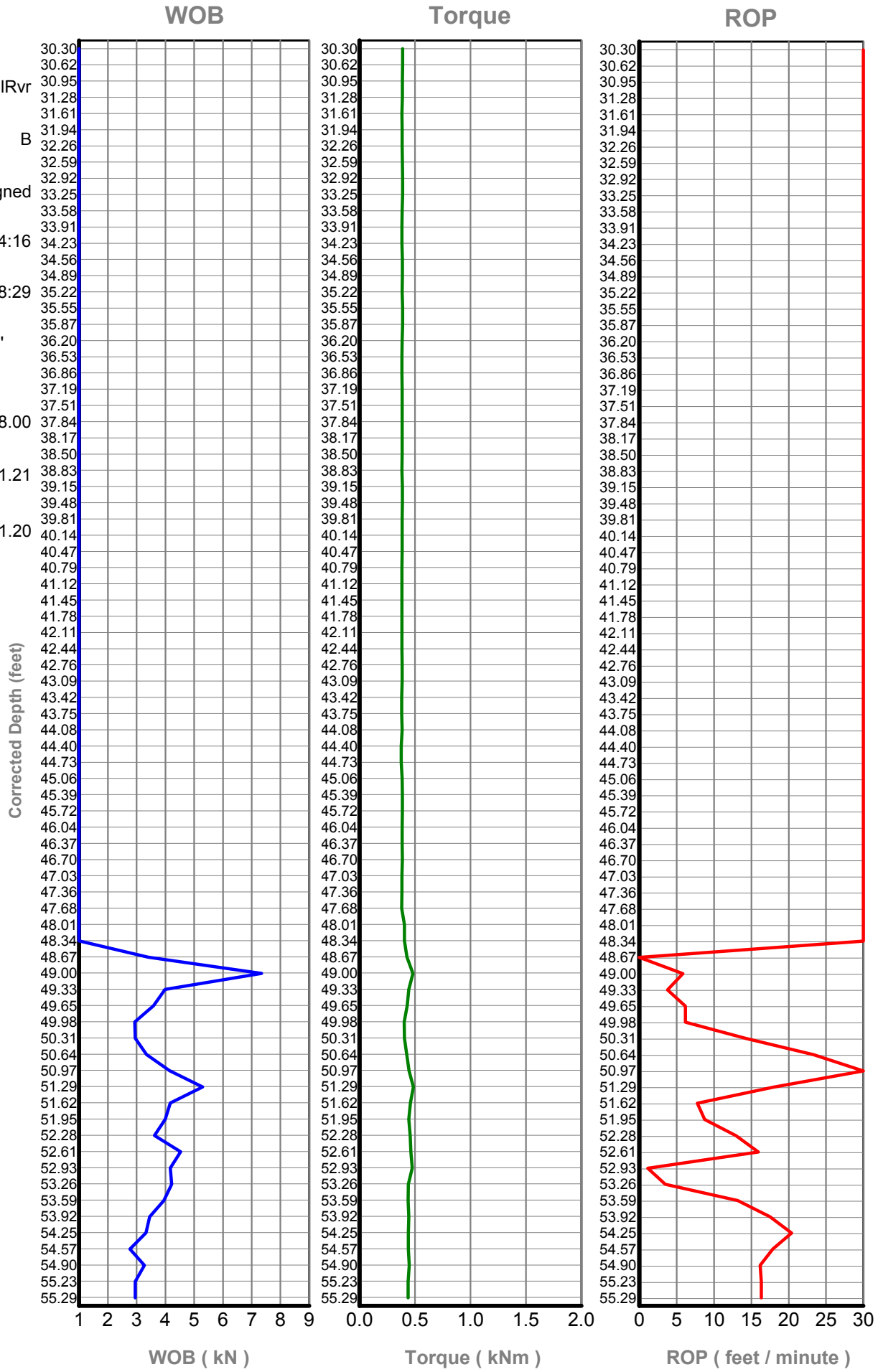
**End Date:**
5/1/2015 5:38:29

**Operator Note:**
'1.2 1.4b Auto Complete'

**Northing:**
359,718.00

**Easting:**
242,401.21

**Tide (feet):**
1.20



## Hole: L156 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:34:32 | 31.50 | 30.20 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 5:34:33 | 31.82 | 30.52 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 5:34:33 | 32.15 | 30.85 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 5:34:34 | 32.48 | 31.18 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:34 | 32.81 | 31.51 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:34 | 33.14 | 31.84 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 5:34:35 | 33.46 | 32.16 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 5:34:35 | 33.79 | 32.49 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 5:34:35 | 34.12 | 32.82 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 5:34:36 | 34.45 | 33.15 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 5:34:36 | 34.78 | 33.48 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 5:34:36 | 35.11 | 33.81 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 5:34:37 | 35.43 | 34.13 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:37 | 35.76 | 34.46 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:37 | 36.09 | 34.79 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:38 | 36.42 | 35.12 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:38 | 36.75 | 35.45 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:38 | 37.07 | 35.77 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:39 | 37.40 | 36.10 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 5:34:39 | 37.73 | 36.43 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 5:34:39 | 38.06 | 36.76 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 5:34:40 | 38.39 | 37.09 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 5:34:40 | 38.71 | 37.41 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:40 | 39.04 | 37.74 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:41 | 39.37 | 38.07 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 5:34:41 | 39.70 | 38.40 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:41 | 40.03 | 38.73 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 5:34:42 | 40.35 | 39.05 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 5:34:42 | 40.68 | 39.38 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:42 | 41.01 | 39.71 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:43 | 41.34 | 40.04 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:43 | 41.67 | 40.37 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 5:34:43 | 41.99 | 40.69 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:44 | 42.32 | 41.02 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:44 | 42.65 | 41.35 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 5:34:44 | 42.98 | 41.68 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 5:34:45 | 43.31 | 42.01 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 5:34:45 | 43.64 | 42.34 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 5:34:46 | 43.96 | 42.66 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:46 | 44.29 | 42.99 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:46 | 44.62 | 43.32 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:47 | 44.95 | 43.65 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:47 | 45.28 | 43.98 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:47 | 45.60 | 44.30 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:48 | 45.93 | 44.63 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:48 | 46.26 | 44.96 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:48 | 46.59 | 45.29 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 5:34:49 | 46.92 | 45.62 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:49 | 47.24 | 45.94 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:49 | 47.57 | 46.27 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 5:34:50 | 47.90 | 46.60 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 5:34:50 | 48.23 | 46.93 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 5:34:50 | 48.56 | 47.26 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 5:34:51 | 48.88 | 47.58 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:51 | 49.21 | 47.91 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 5:34:51 | 49.54 | 48.24 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 5:34:52 | 49.87 | 48.57 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 5:34:52 | 50.20 | 48.90 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:35:05 | 50.53 | 49.23 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 5:35:06 | 50.85 | 49.55 | 140 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 5:35:06 | 51.18 | 49.88 | 287 | 1.14 | 0.29 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:35:07 | 51.51 | 50.21 | 479 | 1.14 | 0.29 | 26.2 |
| 5/1/2015 | 5:35:12 | 51.84 | 50.54 | 99 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 | 5:35:13 | 52.17 | 50.87 | 187 | 1.14 | 0.29 | 10.2 |
| 5/1/2015 | 5:35:14 | 52.49 | 51.19 | 335 | 1.14 | 0.29 | 18.3 |
| 5/1/2015 | 5:35:24 | 52.82 | 51.52 | 78 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 5:35:25 | 53.15 | 51.85 | 160 | 1.14 | 0.29 | 8.8 |
| 5/1/2015 | 5:35:27 | 53.48 | 52.18 | 263 | 1.14 | 0.29 | 14.4 |
| 5/1/2015 | 5:35:34 | 53.81 | 52.51 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 5:35:48 | 54.13 | 52.83 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 5:36:01 | 54.46 | 53.16 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 | 5:36:10 | 54.72 | 53.42 | 31 | 1.14 | 0.29 | 1.7 |

## L156 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:33:25

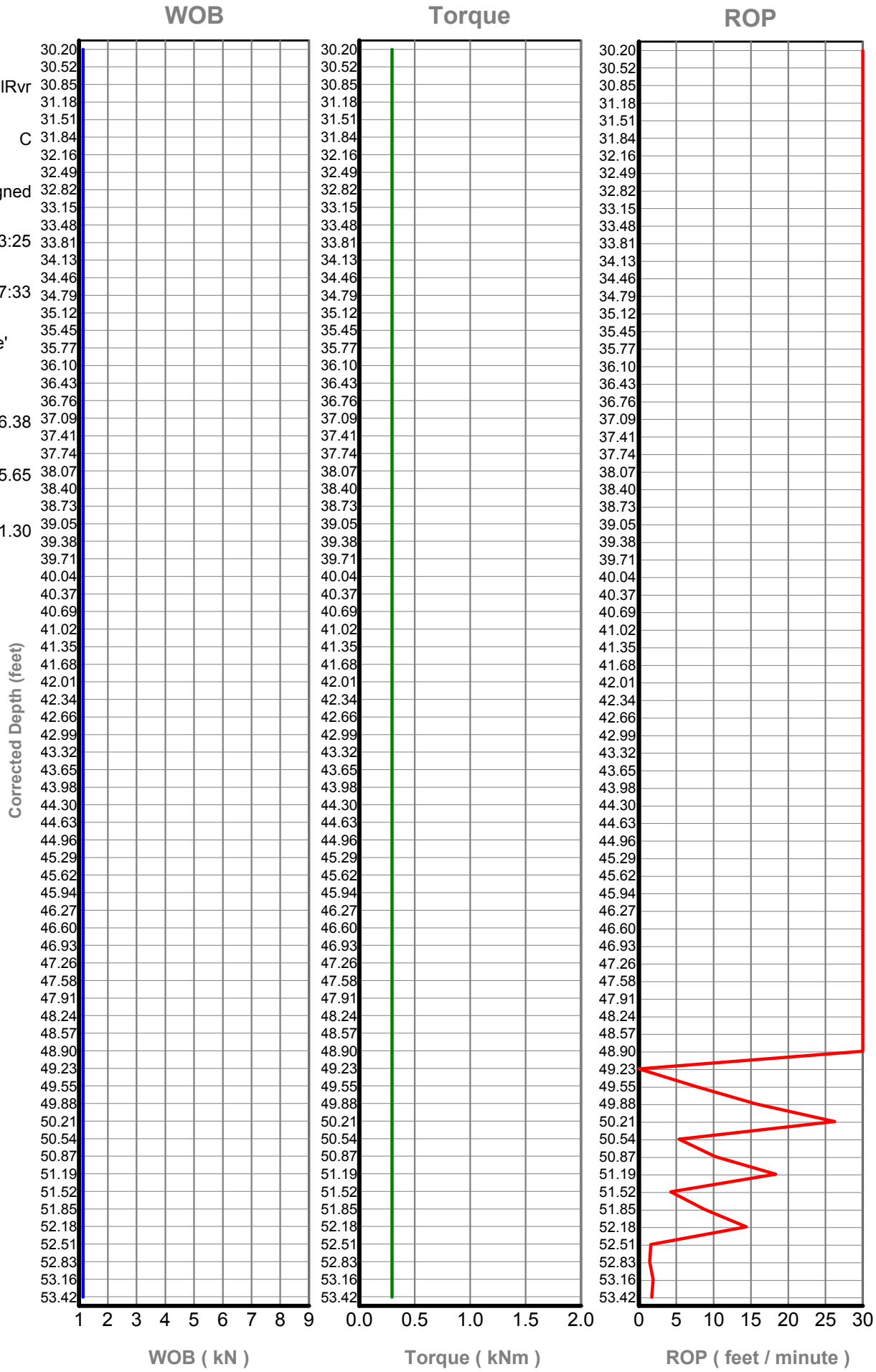
**End Date:**
5/1/2015 5:37:33

**Operator Note:**
'1.3 1.4 c Auto Complete'

**Northing:**
359,756.38

**Easting:**
242,465.65

**Tide (feet):**
1.30



## Hole: L157 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:22:02 | 32.48 | 30.28 | 1,037 | 1.58 | 0.24 | 56.7 |
| 5/1/2015 4:22:02 | 32.81 | 30.61 | 1,023 | 1.60 | 0.24 | 56.0 |
| 5/1/2015 4:22:02 | 33.14 | 30.94 | 1,020 | 1.59 | 0.24 | 55.8 |
| 5/1/2015 4:22:03 | 33.46 | 31.26 | 1,020 | 1.59 | 0.24 | 55.8 |
| 5/1/2015 4:22:03 | 33.79 | 31.59 | 1,020 | 1.59 | 0.24 | 55.8 |
| 5/1/2015 4:22:03 | 34.12 | 31.92 | 1,023 | 1.59 | 0.24 | 56.0 |
| 5/1/2015 4:22:04 | 34.45 | 32.25 | 1,023 | 1.59 | 0.24 | 56.0 |
| 5/1/2015 4:22:04 | 34.78 | 32.58 | 1,030 | 1.59 | 0.24 | 56.3 |
| 5/1/2015 4:22:04 | 35.11 | 32.91 | 1,015 | 1.58 | 0.24 | 55.5 |
| 5/1/2015 4:22:05 | 35.43 | 33.23 | 1,015 | 1.58 | 0.24 | 55.5 |
| 5/1/2015 4:22:05 | 35.76 | 33.56 | 1,018 | 1.59 | 0.24 | 55.7 |
| 5/1/2015 4:22:05 | 36.09 | 33.89 | 1,003 | 1.61 | 0.24 | 54.9 |
| 5/1/2015 4:22:06 | 36.42 | 34.22 | 1,003 | 1.61 | 0.24 | 54.9 |
| 5/1/2015 4:22:06 | 36.75 | 34.55 | 1,003 | 1.60 | 0.24 | 54.9 |
| 5/1/2015 4:22:06 | 37.07 | 34.87 | 1,011 | 1.62 | 0.24 | 55.3 |
| 5/1/2015 4:22:07 | 37.40 | 35.20 | 1,011 | 1.62 | 0.24 | 55.3 |
| 5/1/2015 4:22:07 | 37.73 | 35.53 | 1,008 | 1.60 | 0.24 | 55.1 |
| 5/1/2015 4:22:07 | 38.06 | 35.86 | 1,017 | 1.59 | 0.24 | 55.6 |
| 5/1/2015 4:22:08 | 38.39 | 36.19 | 1,017 | 1.59 | 0.24 | 55.6 |
| 5/1/2015 4:22:08 | 38.71 | 36.51 | 1,020 | 1.61 | 0.24 | 55.8 |
| 5/1/2015 4:22:09 | 39.04 | 36.84 | 1,020 | 1.61 | 0.24 | 55.8 |
| 5/1/2015 4:22:09 | 39.37 | 37.17 | 1,020 | 1.61 | 0.24 | 55.8 |
| 5/1/2015 4:22:09 | 39.70 | 37.50 | 1,033 | 1.59 | 0.24 | 56.5 |
| 5/1/2015 4:22:10 | 40.03 | 37.83 | 1,016 | 1.60 | 0.24 | 55.6 |
| 5/1/2015 4:22:10 | 40.35 | 38.15 | 1,016 | 1.60 | 0.24 | 55.6 |
| 5/1/2015 4:22:10 | 40.68 | 38.48 | 1,019 | 1.60 | 0.24 | 55.7 |
| 5/1/2015 4:22:11 | 41.01 | 38.81 | 1,023 | 1.59 | 0.24 | 55.9 |
| 5/1/2015 4:22:11 | 41.34 | 39.14 | 1,013 | 1.58 | 0.24 | 55.4 |
| 5/1/2015 4:22:12 | 41.67 | 39.47 | 1,013 | 1.58 | 0.24 | 55.4 |
| 5/1/2015 4:22:12 | 41.99 | 39.79 | 1,009 | 1.59 | 0.24 | 55.2 |
| 5/1/2015 4:22:12 | 42.32 | 40.12 | 1,024 | 1.59 | 0.24 | 56.0 |
| 5/1/2015 4:22:13 | 42.65 | 40.45 | 1,024 | 1.59 | 0.24 | 56.0 |
| 5/1/2015 4:22:13 | 42.98 | 40.78 | 1,015 | 1.59 | 0.24 | 55.5 |
| 5/1/2015 4:22:13 | 43.31 | 41.11 | 1,012 | 1.61 | 0.24 | 55.3 |
| 5/1/2015 4:22:14 | 43.64 | 41.44 | 1,012 | 1.61 | 0.24 | 55.3 |
| 5/1/2015 4:22:14 | 43.96 | 41.76 | 1,012 | 1.60 | 0.24 | 55.3 |
| 5/1/2015 4:22:14 | 44.29 | 42.09 | 1,017 | 1.60 | 0.24 | 55.6 |
| 5/1/2015 4:22:15 | 44.62 | 42.42 | 1,017 | 1.60 | 0.24 | 55.6 |
| 5/1/2015 4:22:15 | 44.95 | 42.75 | 1,012 | 1.59 | 0.24 | 55.3 |
| 5/1/2015 4:22:15 | 45.28 | 43.08 | 1,012 | 1.59 | 0.24 | 55.3 |
| 5/1/2015 4:22:16 | 45.60 | 43.40 | 1,012 | 1.59 | 0.24 | 55.3 |
| 5/1/2015 4:22:16 | 45.93 | 43.73 | 1,008 | 1.57 | 0.24 | 55.1 |
| 5/1/2015 4:22:16 | 46.26 | 44.06 | 1,017 | 1.61 | 0.24 | 55.6 |
| 5/1/2015 4:22:17 | 46.59 | 44.39 | 1,017 | 1.61 | 0.24 | 55.6 |
| 5/1/2015 4:22:17 | 46.92 | 44.72 | 1,009 | 1.59 | 0.24 | 55.2 |
| 5/1/2015 4:22:17 | 47.24 | 45.04 | 1,012 | 1.87 | 0.23 | 55.3 |
| 5/1/2015 4:22:26 | 47.57 | 45.37 | 23 | 1.19 | 1.27 | 1.2 |
| 5/1/2015 4:22:31 | 47.90 | 45.70 | 111 | 1.62 | 0.82 | 6.1 |
| 5/1/2015 4:22:32 | 48.23 | 46.03 | 111 | 1.62 | 0.82 | 6.1 |
| 5/1/2015 4:22:32 | 48.56 | 46.36 | 286 | 1.56 | 0.80 | 15.6 |
| 5/1/2015 4:22:32 | 48.88 | 46.68 | 444 | 1.84 | 1.19 | 24.3 |
| 5/1/2015 4:22:45 | 49.21 | 47.01 | 4 | 1.17 | 1.08 | 0.2 |
| 5/1/2015 4:23:11 | 49.54 | 47.34 | 3 | 1.05 | 0.90 | 0.2 |
| 5/1/2015 4:23:12 | 49.87 | 47.67 | 91 | 1.02 | 0.82 | 5.0 |
| 5/1/2015 4:23:13 | 50.20 | 48.00 | 276 | 1.15 | 0.80 | 15.1 |
| 5/1/2015 4:23:13 | 50.53 | 48.33 | 376 | 1.09 | 0.82 | 20.6 |
| 5/1/2015 4:23:14 | 50.85 | 48.65 | 483 | 1.05 | 1.00 | 26.4 |
| 5/1/2015 4:23:15 | 51.18 | 48.98 | 477 | 1.02 | 1.07 | 26.1 |
| 5/1/2015 4:23:16 | 51.51 | 49.31 | 442 | 1.03 | 1.42 | 24.2 |
| 5/1/2015 4:23:17 | 51.84 | 49.64 | 381 | 1.12 | 1.00 | 20.9 |
| 5/1/2015 4:23:31 | 52.17 | 49.97 | 36 | 1.07 | 0.99 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:23:42 | 52.49 | 50.29 | 32 | 1.05 | 0.97 | 1.7 |
| 5/1/2015 | 4:24:36 | 52.82 | 50.62 | 30 | 1.12 | 0.95 | 1.7 |
| 5/1/2015 | 4:24:41 | 53.15 | 50.95 | 72 | 1.02 | 1.12 | 4.0 |
| 5/1/2015 | 4:24:46 | 53.48 | 51.28 | 76 | 1.07 | 0.94 | 4.1 |
| 5/1/2015 | 4:24:58 | 53.81 | 51.61 | 30 | 1.11 | 0.96 | 1.6 |
| 5/1/2015 | 4:25:09 | 54.13 | 51.93 | 31 | 1.07 | 0.88 | 1.7 |
| 5/1/2015 | 4:25:19 | 54.46 | 52.26 | 40 | 1.13 | 0.96 | 2.2 |
| 5/1/2015 | 4:25:21 | 54.53 | 52.33 | 42 | 1.07 | 1.00 | 2.3 |

## L157 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:19:40

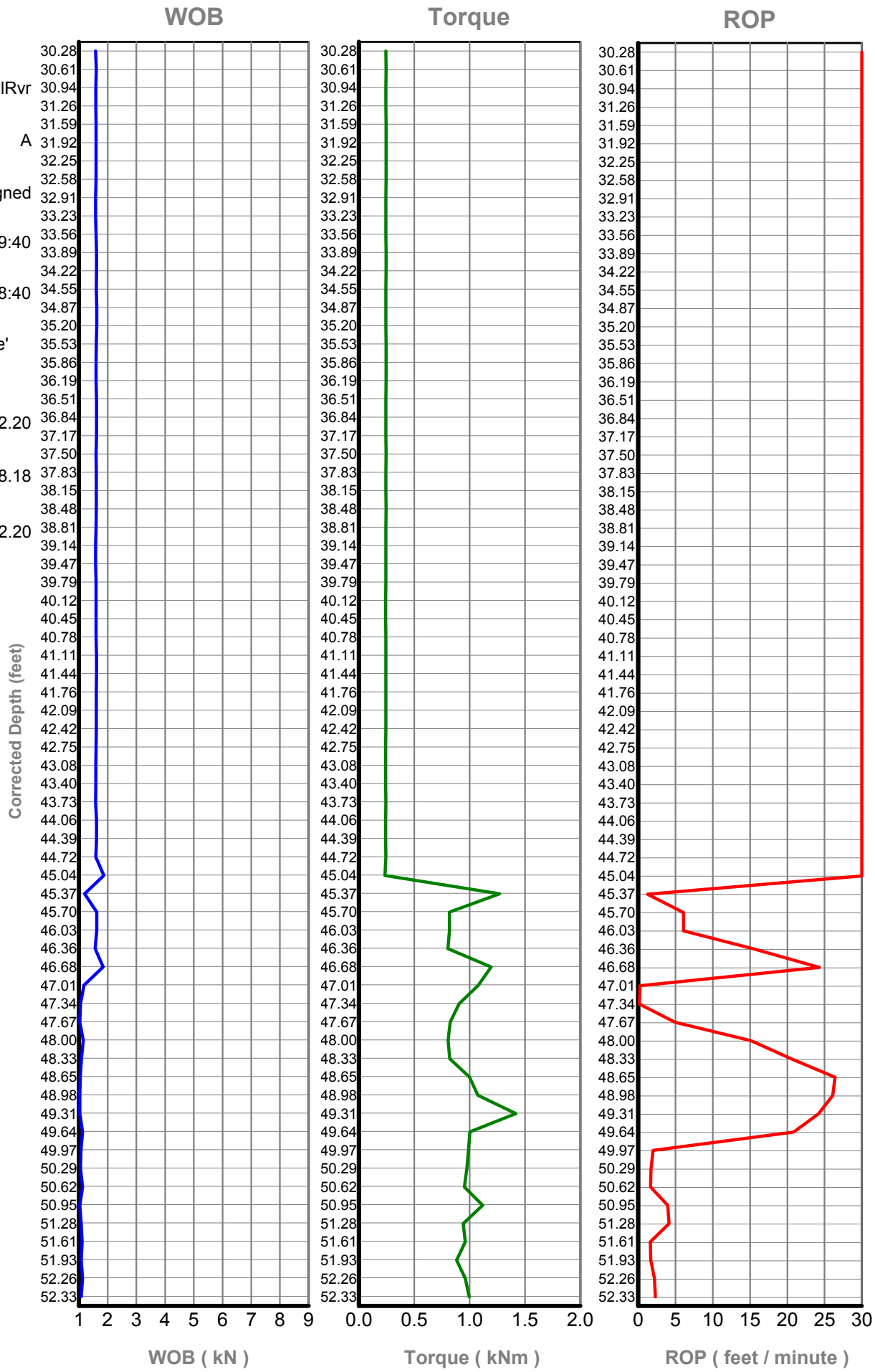
**End Date:**
5/1/2015 4:28:40

**Operator Note:**
'2.2 2.4 a Auto Complete'

**Northing:**
359,792.20

**Easting:**
242,528.18

**Tide (feet):**
2.20



## Hole: L158 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:22:20 | 32.48 | 30.28 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 4:22:20 | 32.81 | 30.61 | 1,145 | 0.39 | 0.38 | 62.6 |
| 5/1/2015 4:22:21 | 33.14 | 30.94 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:21 | 33.46 | 31.26 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:21 | 33.79 | 31.59 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 4:22:22 | 34.12 | 31.92 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 4:22:22 | 34.45 | 32.25 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/1/2015 4:22:22 | 34.78 | 32.58 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:23 | 35.11 | 32.91 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:23 | 35.43 | 33.23 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/1/2015 4:22:23 | 35.76 | 33.56 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/1/2015 4:22:23 | 36.09 | 33.89 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/1/2015 4:22:24 | 36.42 | 34.22 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 4:22:24 | 36.75 | 34.55 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 4:22:24 | 37.07 | 34.87 | 1,135 | 0.31 | 0.38 | 62.1 |
| 5/1/2015 4:22:25 | 37.40 | 35.20 | 1,135 | 0.31 | 0.38 | 62.1 |
| 5/1/2015 4:22:25 | 37.73 | 35.53 | 1,118 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:22:25 | 38.06 | 35.86 | 1,133 | 0.31 | 0.37 | 61.9 |
| 5/1/2015 4:22:26 | 38.39 | 36.19 | 1,133 | 0.31 | 0.37 | 61.9 |
| 5/1/2015 4:22:26 | 38.71 | 36.51 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/1/2015 4:22:26 | 39.04 | 36.84 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/1/2015 4:22:26 | 39.37 | 37.17 | 1,143 | 0.32 | 0.37 | 62.5 |
| 5/1/2015 4:22:27 | 39.70 | 37.50 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:22:27 | 40.03 | 37.83 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:22:27 | 40.35 | 38.15 | 1,126 | 0.31 | 0.38 | 61.6 |
| 5/1/2015 4:22:28 | 40.68 | 38.48 | 1,126 | 0.31 | 0.38 | 61.6 |
| 5/1/2015 4:22:28 | 41.01 | 38.81 | 1,142 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 4:22:28 | 41.34 | 39.14 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 4:22:29 | 41.67 | 39.47 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 4:22:29 | 41.99 | 39.79 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:30 | 42.32 | 40.12 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:22:30 | 42.65 | 40.45 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 4:22:30 | 42.98 | 40.78 | 1,155 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 4:22:31 | 43.31 | 41.11 | 1,155 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 4:22:31 | 43.64 | 41.44 | 1,116 | 0.31 | 0.36 | 61.0 |
| 5/1/2015 4:22:31 | 43.96 | 41.76 | 1,116 | 0.31 | 0.36 | 61.0 |
| 5/1/2015 4:22:31 | 44.29 | 42.09 | 1,116 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 4:22:32 | 44.62 | 42.42 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:22:32 | 44.95 | 42.75 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:22:32 | 45.28 | 43.08 | 1,132 | 0.31 | 0.38 | 61.9 |
| 5/1/2015 4:22:33 | 45.60 | 43.40 | 1,132 | 0.31 | 0.38 | 61.9 |
| 5/1/2015 4:22:33 | 45.93 | 43.73 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 4:22:33 | 46.26 | 44.06 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 4:22:34 | 46.59 | 44.39 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 4:22:34 | 46.92 | 44.72 | 1,162 | 0.29 | 0.42 | 63.6 |
| 5/1/2015 4:22:38 | 47.24 | 45.04 | 11 | 3.05 | 0.42 | 0.6 |
| 5/1/2015 4:22:42 | 47.57 | 45.37 | 58 | 3.99 | 0.46 | 3.2 |
| 5/1/2015 4:22:47 | 47.90 | 45.70 | 64 | 3.94 | 0.45 | 3.5 |
| 5/1/2015 4:22:50 | 48.23 | 46.03 | 106 | 3.12 | 0.43 | 5.8 |
| 5/1/2015 4:22:51 | 48.56 | 46.36 | 200 | 3.71 | 0.45 | 11.0 |
| 5/1/2015 4:22:58 | 48.88 | 46.68 | 17 | 4.37 | 0.47 | 0.9 |
| 5/1/2015 4:23:07 | 49.21 | 47.01 | 67 | 4.24 | 0.47 | 3.6 |
| 5/1/2015 4:23:10 | 49.54 | 47.34 | 131 | 3.88 | 0.46 | 7.2 |
| 5/1/2015 4:23:12 | 49.87 | 47.67 | 141 | 4.03 | 0.45 | 7.7 |
| 5/1/2015 4:23:14 | 50.20 | 48.00 | 181 | 3.59 | 0.45 | 9.9 |
| 5/1/2015 4:23:15 | 50.53 | 48.33 | 266 | 3.87 | 0.47 | 14.6 |
| 5/1/2015 4:23:20 | 50.85 | 48.65 | 59 | 3.01 | 0.46 | 3.2 |
| 5/1/2015 4:23:28 | 51.18 | 48.98 | 46 | 2.84 | 0.47 | 2.5 |
| 5/1/2015 4:23:37 | 51.51 | 49.31 | 40 | 3.01 | 0.47 | 2.2 |
| 5/1/2015 4:23:41 | 51.71 | 49.51 | 40 | 3.05 | 0.47 | 2.2 |

## L158 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:20:50

**End Date:**
5/1/2015 4:25:08

**Operator Note:**
'2.2 2.4b Auto Complete'

**Northing:**
359,832.90

**Easting:**
242,591.44

**Tide (feet):**
2.20



## Hole: L159 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:20:34 | 32.48 | 30.28 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:34 | 32.81 | 30.61 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 4:20:35 | 33.14 | 30.94 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 4:20:35 | 33.46 | 31.26 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 4:20:35 | 33.79 | 31.59 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:36 | 34.12 | 31.92 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:36 | 34.45 | 32.25 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:36 | 34.78 | 32.58 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:37 | 35.11 | 32.91 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:37 | 35.43 | 33.23 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 4:20:37 | 35.76 | 33.56 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:38 | 36.09 | 33.89 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:38 | 36.42 | 34.22 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 4:20:38 | 36.75 | 34.55 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 4:20:38 | 37.07 | 34.87 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:39 | 37.40 | 35.20 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:39 | 37.73 | 35.53 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:39 | 38.06 | 35.86 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:40 | 38.39 | 36.19 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:41 | 38.71 | 36.51 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:41 | 39.04 | 36.84 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:41 | 39.37 | 37.17 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:41 | 39.70 | 37.50 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 4:20:42 | 40.03 | 37.83 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:20:42 | 40.35 | 38.15 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:20:42 | 40.68 | 38.48 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 4:20:43 | 41.01 | 38.81 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:43 | 41.34 | 39.14 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:43 | 41.67 | 39.47 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:20:44 | 41.99 | 39.79 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:44 | 42.32 | 40.12 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:44 | 42.65 | 40.45 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:45 | 42.98 | 40.78 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 4:20:45 | 43.31 | 41.11 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:20:45 | 43.64 | 41.44 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:46 | 43.96 | 41.76 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:20:46 | 44.29 | 42.09 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 4:20:46 | 44.62 | 42.42 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 4:20:47 | 44.95 | 42.75 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 4:20:47 | 45.28 | 43.08 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:20:47 | 45.60 | 43.40 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:20:48 | 45.93 | 43.73 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:20:48 | 46.26 | 44.06 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:20:48 | 46.59 | 44.39 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:20:49 | 46.92 | 44.72 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:20:54 | 47.24 | 45.04 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 4:21:08 | 47.57 | 45.37 | 94 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 4:21:08 | 47.90 | 45.70 | 94 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 4:21:08 | 48.23 | 46.03 | 251 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 4:21:11 | 48.56 | 46.36 | 165 | 1.14 | 0.29 | 9.0 |
| 5/1/2015 4:21:12 | 48.88 | 46.68 | 153 | 1.14 | 0.29 | 8.4 |
| 5/1/2015 4:21:12 | 49.21 | 47.01 | 327 | 1.14 | 0.29 | 17.9 |
| 5/1/2015 4:21:13 | 49.54 | 47.34 | 327 | 1.14 | 0.29 | 17.9 |
| 5/1/2015 4:21:13 | 49.87 | 47.67 | 507 | 1.14 | 0.29 | 27.7 |
| 5/1/2015 4:21:13 | 50.20 | 48.00 | 666 | 1.14 | 0.29 | 36.4 |
| 5/1/2015 4:21:14 | 50.53 | 48.33 | 666 | 1.14 | 0.29 | 36.4 |
| 5/1/2015 4:21:14 | 50.85 | 48.65 | 842 | 1.14 | 0.29 | 46.1 |
| 5/1/2015 4:21:15 | 51.18 | 48.98 | 820 | 1.14 | 0.29 | 44.9 |
| 5/1/2015 4:21:16 | 51.51 | 49.31 | 795 | 1.14 | 0.29 | 43.5 |
| 5/1/2015 4:21:16 | 51.84 | 49.64 | 795 | 1.14 | 0.29 | 43.5 |
| 5/1/2015 4:21:16 | 52.17 | 49.97 | 776 | 1.14 | 0.29 | 42.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:21:17 | 52.49 | 50.29 | 768 | 1.14 | 0.29 | 42.0 |
| 5/1/2015 | 4:21:18 | 52.82 | 50.62 | 704 | 1.14 | 0.29 | 38.5 |
| 5/1/2015 | 4:21:18 | 53.15 | 50.95 | 704 | 1.14 | 0.29 | 38.5 |
| 5/1/2015 | 4:21:19 | 53.48 | 51.28 | 704 | 1.14 | 0.29 | 38.5 |
| 5/1/2015 | 4:21:24 | 53.81 | 51.61 | 3 | 1.14 | 0.29 | 0.1 |
| 5/1/2015 | 4:21:25 | 54.13 | 51.93 | 126 | 1.14 | 0.29 | 6.9 |
| 5/1/2015 | 4:21:26 | 54.46 | 52.26 | 304 | 1.14 | 0.29 | 16.6 |
| 5/1/2015 | 4:21:28 | 54.79 | 52.59 | 282 | 1.14 | 0.29 | 15.4 |
| 5/1/2015 | 4:21:29 | 55.12 | 52.92 | 261 | 1.14 | 0.29 | 14.3 |
| 5/1/2015 | 4:21:31 | 55.45 | 53.25 | 238 | 1.14 | 0.29 | 13.0 |
| 5/1/2015 | 4:21:34 | 55.77 | 53.57 | 128 | 1.14 | 0.29 | 7.0 |
| 5/1/2015 | 4:22:06 | 56.10 | 53.90 | 9 | 1.14 | 0.29 | 0.5 |
| 5/1/2015 | 4:22:10 | 56.43 | 54.23 | 83 | 1.14 | 0.29 | 4.6 |
| 5/1/2015 | 4:22:16 | 56.76 | 54.56 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 4:22:21 | 57.09 | 54.89 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 4:22:27 | 57.39 | 55.19 | 40 | 1.14 | 0.29 | 2.2 |

## L159 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:19:34

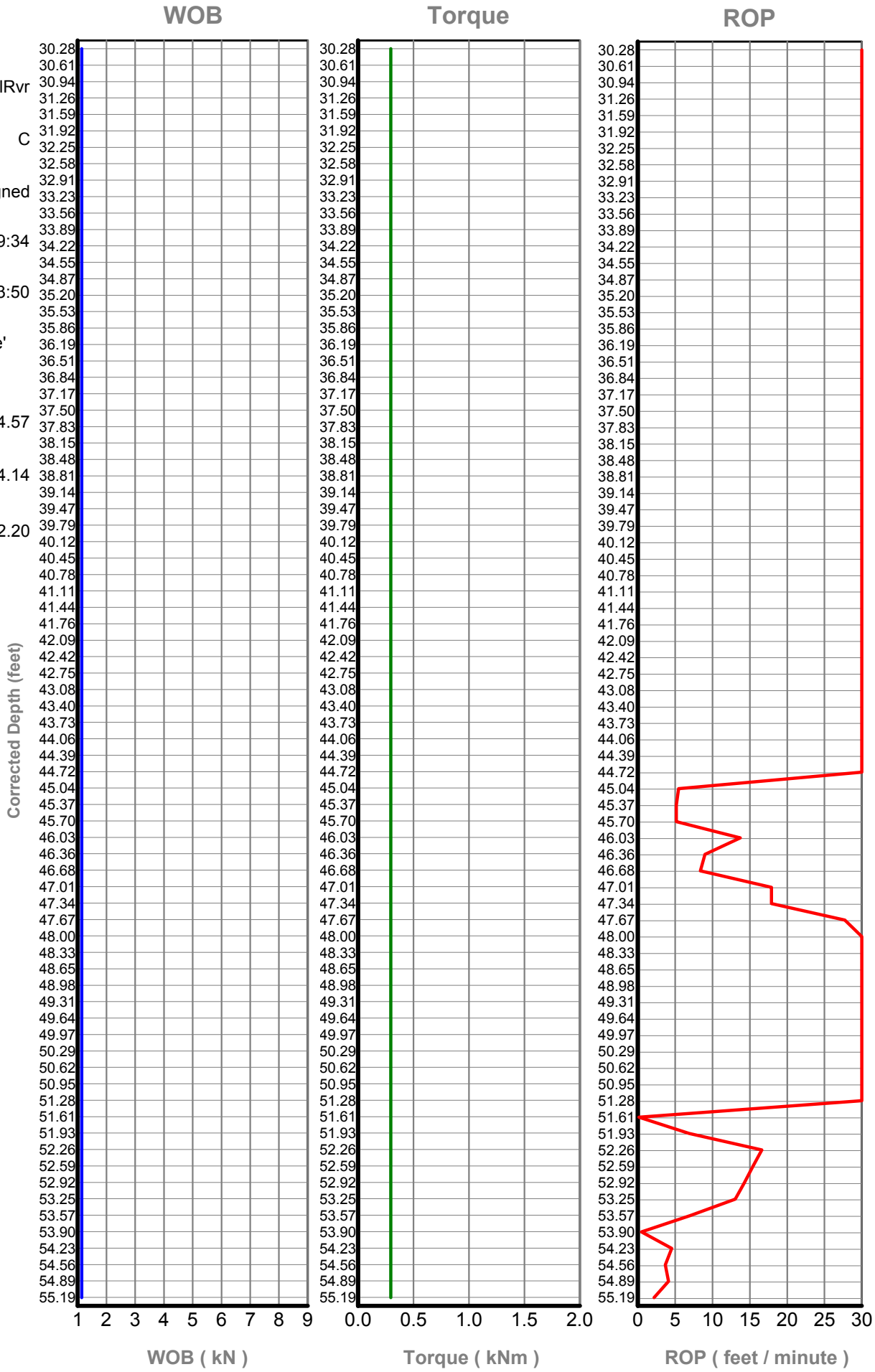
**End Date:**
5/1/2015 4:23:50

**Operator Note:**
'2.2 2.4 c Auto Complete'

**Northing:**
359,874.57

**Easting:**
242,654.14

**Tide (feet):**
2.20



## Hole: L16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:15:50 | 33.79 | 30.29 | 829 | 1.26 | 0.18 | 45.3 |
| 5/1/2015 8:15:51 | 34.12 | 30.62 | 829 | 1.26 | 0.18 | 45.3 |
| 5/1/2015 8:15:51 | 34.45 | 30.95 | 839 | 1.26 | 0.17 | 45.9 |
| 5/1/2015 8:15:51 | 34.78 | 31.28 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:15:52 | 35.11 | 31.61 | 827 | 1.24 | 0.18 | 45.2 |
| 5/1/2015 8:15:52 | 35.43 | 31.93 | 833 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:15:53 | 35.76 | 32.26 | 833 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:15:53 | 36.09 | 32.59 | 847 | 1.24 | 0.18 | 46.3 |
| 5/1/2015 8:15:53 | 36.42 | 32.92 | 842 | 1.26 | 0.18 | 46.1 |
| 5/1/2015 8:15:54 | 36.75 | 33.25 | 837 | 1.26 | 0.18 | 45.8 |
| 5/1/2015 8:15:54 | 37.07 | 33.57 | 843 | 1.26 | 0.18 | 46.1 |
| 5/1/2015 8:15:55 | 37.40 | 33.90 | 838 | 1.24 | 0.18 | 45.8 |
| 5/1/2015 8:15:55 | 37.73 | 34.23 | 838 | 1.24 | 0.18 | 45.8 |
| 5/1/2015 8:15:55 | 38.06 | 34.56 | 838 | 1.24 | 0.18 | 45.8 |
| 5/1/2015 8:15:56 | 38.39 | 34.89 | 838 | 1.24 | 0.18 | 45.8 |
| 5/1/2015 8:15:56 | 38.71 | 35.21 | 833 | 1.25 | 0.18 | 45.6 |
| 5/1/2015 8:15:57 | 39.04 | 35.54 | 844 | 1.24 | 0.18 | 46.2 |
| 5/1/2015 8:15:57 | 39.37 | 35.87 | 844 | 1.24 | 0.18 | 46.2 |
| 5/1/2015 8:15:57 | 39.70 | 36.20 | 838 | 1.26 | 0.18 | 45.8 |
| 5/1/2015 8:15:58 | 40.03 | 36.53 | 838 | 1.26 | 0.18 | 45.8 |
| 5/1/2015 8:15:58 | 40.35 | 36.85 | 836 | 1.26 | 0.18 | 45.7 |
| 5/1/2015 8:15:59 | 40.68 | 37.18 | 834 | 1.25 | 0.18 | 45.6 |
| 5/1/2015 8:15:59 | 41.01 | 37.51 | 833 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:16:00 | 41.34 | 37.84 | 833 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:16:00 | 41.67 | 38.17 | 833 | 1.27 | 0.18 | 45.5 |
| 5/1/2015 8:16:01 | 41.99 | 38.49 | 825 | 1.24 | 0.18 | 45.1 |
| 5/1/2015 8:16:01 | 42.32 | 38.82 | 831 | 1.25 | 0.18 | 45.4 |
| 5/1/2015 8:16:02 | 42.65 | 39.15 | 835 | 1.26 | 0.18 | 45.6 |
| 5/1/2015 8:16:02 | 42.98 | 39.48 | 830 | 1.26 | 0.18 | 45.4 |
| 5/1/2015 8:16:03 | 43.31 | 39.81 | 830 | 1.26 | 0.18 | 45.4 |
| 5/1/2015 8:16:03 | 43.64 | 40.14 | 832 | 1.25 | 0.18 | 45.5 |
| 5/1/2015 8:16:03 | 43.96 | 40.46 | 835 | 1.25 | 0.18 | 45.7 |
| 5/1/2015 8:16:04 | 44.29 | 40.79 | 834 | 1.26 | 0.18 | 45.6 |
| 5/1/2015 8:16:04 | 44.62 | 41.12 | 832 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:16:05 | 44.95 | 41.45 | 832 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:16:05 | 45.28 | 41.78 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:05 | 45.60 | 42.10 | 832 | 1.26 | 0.18 | 45.5 |
| 5/1/2015 8:16:06 | 45.93 | 42.43 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:06 | 46.26 | 42.76 | 827 | 1.25 | 0.18 | 45.2 |
| 5/1/2015 8:16:07 | 46.59 | 43.09 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:07 | 46.92 | 43.42 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:07 | 47.24 | 43.74 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:08 | 47.57 | 44.07 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:08 | 47.90 | 44.40 | 824 | 1.25 | 0.18 | 45.1 |
| 5/1/2015 8:16:09 | 48.23 | 44.73 | 822 | 1.27 | 0.18 | 44.9 |
| 5/1/2015 8:16:09 | 48.56 | 45.06 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:10 | 48.88 | 45.38 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:10 | 49.21 | 45.71 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:10 | 49.54 | 46.04 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:11 | 49.87 | 46.37 | 827 | 1.26 | 0.18 | 45.2 |
| 5/1/2015 8:16:12 | 50.20 | 46.70 | 824 | 1.27 | 0.18 | 45.1 |
| 5/1/2015 8:16:12 | 50.53 | 47.03 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:13 | 50.85 | 47.35 | 824 | 1.26 | 0.18 | 45.1 |
| 5/1/2015 8:16:13 | 51.18 | 47.68 | 800 | 1.26 | 0.18 | 43.8 |
| 5/1/2015 8:16:13 | 51.51 | 48.01 | 800 | 1.25 | 0.18 | 43.8 |
| 5/1/2015 8:16:14 | 51.84 | 48.34 | 810 | 1.26 | 0.18 | 44.3 |
| 5/1/2015 8:16:14 | 52.17 | 48.67 | 810 | 1.32 | 0.18 | 44.3 |
| 5/1/2015 8:16:30 | 52.49 | 48.99 | 38 | 1.60 | 1.06 | 2.1 |
| 5/1/2015 8:16:31 | 52.82 | 49.32 | 112 | 2.13 | 1.48 | 6.1 |
| 5/1/2015 8:16:32 | 53.15 | 49.65 | 222 | 1.21 | 1.15 | 12.1 |
| 5/1/2015 8:16:33 | 53.48 | 49.98 | 373 | 1.18 | 1.23 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:16:34 | 53.81 | 50.31 | 359 | 1.18 | 1.09 | 19.6 |
| 5/1/2015 | 8:16:35 | 54.13 | 50.63 | 334 | 1.15 | 1.03 | 18.2 |
| 5/1/2015 | 8:16:37 | 54.46 | 50.96 | 210 | 1.17 | 1.07 | 11.5 |
| 5/1/2015 | 8:16:38 | 54.79 | 51.29 | 228 | 1.19 | 1.08 | 12.4 |
| 5/1/2015 | 8:16:39 | 55.12 | 51.62 | 298 | 1.15 | 0.98 | 16.3 |
| 5/1/2015 | 8:16:40 | 55.45 | 51.95 | 376 | 1.21 | 1.13 | 20.6 |
| 5/1/2015 | 8:16:41 | 55.77 | 52.27 | 370 | 1.21 | 1.11 | 20.2 |
| 5/1/2015 | 8:16:44 | 56.10 | 52.60 | 188 | 1.18 | 1.21 | 10.3 |
| 5/1/2015 | 8:16:47 | 56.43 | 52.93 | 109 | 1.15 | 1.34 | 6.0 |
| 5/1/2015 | 8:16:51 | 56.76 | 53.26 | 81 | 1.12 | 1.38 | 4.4 |
| 5/1/2015 | 8:16:55 | 57.09 | 53.59 | 91 | 1.22 | 1.28 | 5.0 |
| 5/1/2015 | 8:16:58 | 57.41 | 53.91 | 133 | 1.17 | 1.23 | 7.3 |
| 5/1/2015 | 8:17:00 | 57.74 | 54.24 | 179 | 1.24 | 1.18 | 9.8 |
| 5/1/2015 | 8:17:03 | 58.06 | 54.56 | 116 | 0.72 | 1.19 | 6.3 |

## L16 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:14:17

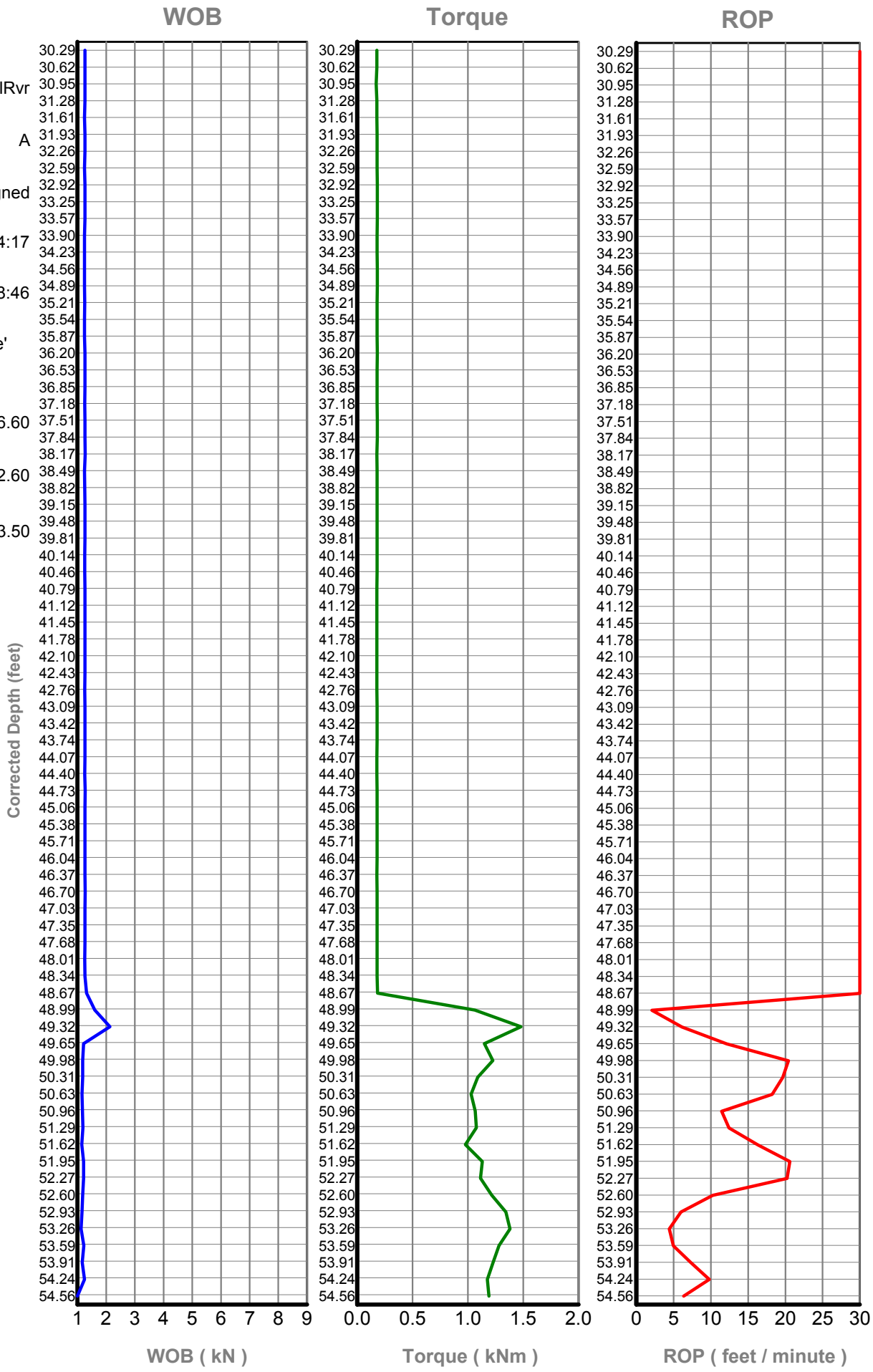
**End Date:**
5/1/2015 8:18:46

**Operator Note:**
'3.5 3.0 a Auto Complete'

**Northing:**
360,056.60

**Easting:**
242,102.60

**Tide (feet):**
3.50



## Hole: L160 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:45:30 | 36.09 | 30.29 | 1,153 | 1.83 | 0.80 | 63.1 |
| 5/1/2015 0:45:31 | 36.42 | 30.62 | 1,153 | 1.83 | 0.80 | 63.1 |
| 5/1/2015 0:45:31 | 36.75 | 30.95 | 1,135 | 1.83 | 0.82 | 62.1 |
| 5/1/2015 0:45:31 | 37.07 | 31.27 | 1,135 | 1.83 | 0.82 | 62.1 |
| 5/1/2015 0:45:32 | 37.40 | 31.60 | 1,135 | 1.83 | 0.82 | 62.1 |
| 5/1/2015 0:45:32 | 37.73 | 31.93 | 1,153 | 1.83 | 0.82 | 63.1 |
| 5/1/2015 0:45:32 | 38.06 | 32.26 | 1,153 | 1.83 | 0.82 | 63.1 |
| 5/1/2015 0:45:32 | 38.39 | 32.59 | 1,144 | 1.84 | 0.81 | 62.6 |
| 5/1/2015 0:45:33 | 38.71 | 32.91 | 1,134 | 1.81 | 0.80 | 62.0 |
| 5/1/2015 0:45:33 | 39.04 | 33.24 | 1,134 | 1.81 | 0.80 | 62.0 |
| 5/1/2015 0:45:33 | 39.37 | 33.57 | 1,130 | 1.84 | 0.81 | 61.8 |
| 5/1/2015 0:45:34 | 39.70 | 33.90 | 1,130 | 1.84 | 0.81 | 61.8 |
| 5/1/2015 0:45:34 | 40.03 | 34.23 | 1,142 | 1.83 | 0.81 | 62.4 |
| 5/1/2015 0:45:34 | 40.35 | 34.55 | 1,142 | 1.83 | 0.80 | 62.4 |
| 5/1/2015 0:45:35 | 40.68 | 34.88 | 1,142 | 1.83 | 0.80 | 62.4 |
| 5/1/2015 0:45:35 | 41.01 | 35.21 | 1,143 | 1.83 | 0.79 | 62.5 |
| 5/1/2015 0:45:35 | 41.34 | 35.54 | 1,143 | 1.83 | 0.79 | 62.5 |
| 5/1/2015 0:45:35 | 41.67 | 35.87 | 1,149 | 1.79 | 0.79 | 62.8 |
| 5/1/2015 0:45:36 | 41.99 | 36.19 | 1,149 | 1.79 | 0.79 | 62.8 |
| 5/1/2015 0:45:36 | 42.32 | 36.52 | 1,138 | 1.83 | 0.79 | 62.2 |
| 5/1/2015 0:45:36 | 42.65 | 36.85 | 1,138 | 1.82 | 0.81 | 62.2 |
| 5/1/2015 0:45:37 | 42.98 | 37.18 | 1,138 | 1.82 | 0.81 | 62.2 |
| 5/1/2015 0:45:37 | 43.31 | 37.51 | 1,150 | 1.81 | 0.82 | 62.9 |
| 5/1/2015 0:45:38 | 43.64 | 37.84 | 1,150 | 1.81 | 0.82 | 62.9 |
| 5/1/2015 0:45:38 | 43.96 | 38.16 | 1,146 | 1.82 | 0.82 | 62.7 |
| 5/1/2015 0:45:38 | 44.29 | 38.49 | 1,141 | 1.83 | 0.83 | 62.4 |
| 5/1/2015 0:45:39 | 44.62 | 38.82 | 1,141 | 1.83 | 0.83 | 62.4 |
| 5/1/2015 0:45:39 | 44.95 | 39.15 | 1,121 | 1.81 | 0.80 | 61.3 |
| 5/1/2015 0:45:39 | 45.28 | 39.48 | 1,121 | 1.81 | 0.80 | 61.3 |
| 5/1/2015 0:45:39 | 45.60 | 39.80 | 1,152 | 1.81 | 0.80 | 63.0 |
| 5/1/2015 0:45:40 | 45.93 | 40.13 | 1,152 | 1.81 | 0.81 | 63.0 |
| 5/1/2015 0:45:40 | 46.26 | 40.46 | 1,152 | 1.81 | 0.81 | 63.0 |
| 5/1/2015 0:45:40 | 46.59 | 40.79 | 1,152 | 1.84 | 0.81 | 63.0 |
| 5/1/2015 0:45:41 | 46.92 | 41.12 | 1,152 | 1.84 | 0.81 | 63.0 |
| 5/1/2015 0:45:41 | 47.24 | 41.44 | 1,153 | 1.82 | 0.78 | 63.0 |
| 5/1/2015 0:45:41 | 47.57 | 41.77 | 1,153 | 1.83 | 0.79 | 63.0 |
| 5/1/2015 0:45:42 | 47.90 | 42.10 | 1,153 | 1.83 | 0.79 | 63.0 |
| 5/1/2015 0:45:42 | 48.23 | 42.43 | 1,156 | 1.81 | 0.79 | 63.2 |
| 5/1/2015 0:45:42 | 48.56 | 42.76 | 1,156 | 1.81 | 0.79 | 63.2 |
| 5/1/2015 0:45:42 | 48.88 | 43.08 | 1,156 | 1.81 | 0.79 | 63.2 |
| 5/1/2015 0:45:43 | 49.21 | 43.41 | 1,151 | 1.82 | 0.82 | 62.9 |
| 5/1/2015 0:45:43 | 49.54 | 43.74 | 1,151 | 1.82 | 0.82 | 62.9 |
| 5/1/2015 0:45:43 | 49.87 | 44.07 | 1,140 | 1.82 | 0.82 | 62.4 |
| 5/1/2015 0:45:44 | 50.20 | 44.40 | 1,140 | 1.82 | 0.82 | 62.4 |
| 5/1/2015 0:45:44 | 50.53 | 44.73 | 1,146 | 1.80 | 0.82 | 62.7 |
| 5/1/2015 0:45:44 | 50.85 | 45.05 | 1,139 | 1.83 | 0.82 | 62.3 |
| 5/1/2015 0:45:45 | 51.18 | 45.38 | 1,139 | 1.83 | 0.82 | 62.3 |
| 5/1/2015 0:45:45 | 51.51 | 45.71 | 1,139 | 1.81 | 0.80 | 62.3 |
| 5/1/2015 0:45:45 | 51.84 | 46.04 | 1,139 | 1.81 | 0.80 | 62.3 |
| 5/1/2015 0:45:45 | 52.17 | 46.37 | 1,152 | 1.83 | 0.79 | 63.0 |
| 5/1/2015 0:45:46 | 52.49 | 46.69 | 1,151 | 1.81 | 0.80 | 62.9 |
| 5/1/2015 0:45:46 | 52.82 | 47.02 | 1,151 | 1.81 | 0.80 | 62.9 |
| 5/1/2015 0:45:47 | 53.15 | 47.35 | 1,161 | 1.81 | 0.80 | 63.5 |
| 5/1/2015 0:45:47 | 53.48 | 47.68 | 1,161 | 1.81 | 0.80 | 63.5 |
| 5/1/2015 0:45:47 | 53.81 | 48.01 | 1,133 | 1.80 | 0.79 | 62.0 |
| 5/1/2015 0:45:47 | 54.13 | 48.33 | 1,133 | 1.84 | 0.78 | 62.0 |
| 5/1/2015 0:45:48 | 54.46 | 48.66 | 1,133 | 1.84 | 0.78 | 62.0 |
| 5/1/2015 0:45:48 | 54.79 | 48.99 | 1,149 | 1.86 | 0.79 | 62.9 |
| 5/1/2015 0:45:49 | 55.12 | 49.32 | 1,149 | 1.86 | 0.79 | 62.9 |
| 5/1/2015 0:45:49 | 55.45 | 49.65 | 1,134 | 1.88 | 0.25 | 62.0 |
| 5/1/2015 0:45:49 | 55.77 | 49.97 | 1,120 | 1.91 | 0.25 | 61.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:45:50 | 56.10 | 50.30 | 1,120 | 1.91 | 0.25 | 61.3 |
| 5/1/2015 | 0:46:05 | 56.43 | 50.63 | 40 | 1.25 | 1.51 | 2.2 |
| 5/1/2015 | 0:46:06 | 56.76 | 50.96 | 68 | 1.18 | 1.20 | 3.7 |
| 5/1/2015 | 0:46:07 | 57.09 | 51.29 | 181 | 1.44 | 1.39 | 9.9 |
| 5/1/2015 | 0:46:08 | 57.41 | 51.61 | 270 | 1.13 | 1.42 | 14.8 |
| 5/1/2015 | 0:46:09 | 57.74 | 51.94 | 326 | 1.98 | 1.47 | 17.8 |
| 5/1/2015 | 0:46:12 | 58.07 | 52.27 | 50 | 1.89 | 1.50 | 2.7 |
| 5/1/2015 | 0:46:13 | 58.40 | 52.60 | 183 | 1.22 | 1.42 | 10.0 |
| 5/1/2015 | 0:46:38 | 58.73 | 52.93 | 0 | 2.00 | 1.51 | 0.0 |
| 5/1/2015 | 0:46:40 | 59.06 | 53.26 | 99 | 1.86 | 1.55 | 5.4 |
| 5/1/2015 | 0:46:40 | 59.38 | 53.58 | 160 | 1.70 | 1.42 | 8.8 |
| 5/1/2015 | 0:46:43 | 59.71 | 53.91 | 244 | 1.11 | 0.95 | 13.4 |
| 5/1/2015 | 0:46:56 | 60.04 | 54.24 | 26 | 1.11 | 0.88 | 1.4 |
| 5/1/2015 | 0:47:07 | 60.37 | 54.57 | 33 | 1.09 | 0.95 | 1.8 |
| 5/1/2015 | 0:47:17 | 60.70 | 54.90 | 31 | 1.15 | 0.98 | 1.7 |
| 5/1/2015 | 0:47:29 | 61.02 | 55.22 | 38 | 1.16 | 0.93 | 2.1 |
| 5/1/2015 | 0:47:37 | 61.26 | 55.46 | 33 | 1.17 | 1.10 | 1.8 |

## L160 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:42:44

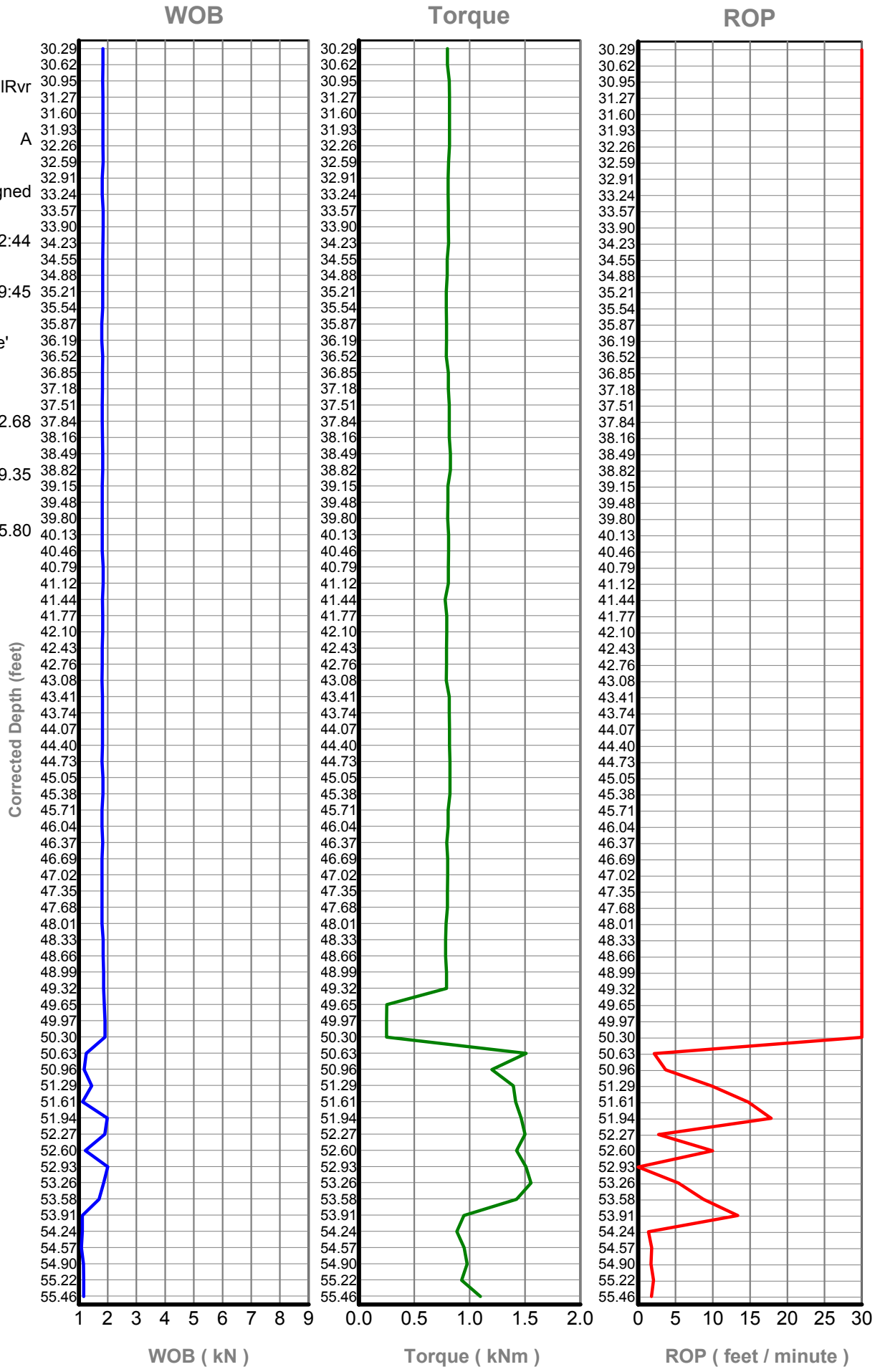
**End Date:**
5/1/2015 0:49:45

**Operator Note:**
'5.8 6.3 a Auto Complete'

**Northing:**
359,912.68

**Easting:**
242,719.35

**Tide (feet):**
5.80



## Hole: L161 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:46:29 | 36.09 | 30.29 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 0:46:29 | 36.42 | 30.62 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 0:46:29 | 36.75 | 30.95 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 0:46:29 | 37.07 | 31.27 | 1,124 | 0.32 | 0.39 | 61.5 |
| 5/1/2015 0:46:30 | 37.40 | 31.60 | 1,119 | 0.32 | 0.39 | 61.2 |
| 5/1/2015 0:46:30 | 37.73 | 31.93 | 1,119 | 0.32 | 0.39 | 61.2 |
| 5/1/2015 0:46:30 | 38.06 | 32.26 | 1,122 | 0.32 | 0.39 | 61.3 |
| 5/1/2015 0:46:31 | 38.39 | 32.59 | 1,122 | 0.32 | 0.39 | 61.3 |
| 5/1/2015 0:46:31 | 38.71 | 32.91 | 1,127 | 0.32 | 0.39 | 61.6 |
| 5/1/2015 0:46:31 | 39.04 | 33.24 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:32 | 39.37 | 33.57 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:32 | 39.70 | 33.90 | 1,130 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 0:46:32 | 40.03 | 34.23 | 1,130 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 0:46:32 | 40.35 | 34.55 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 0:46:33 | 40.68 | 34.88 | 1,129 | 0.32 | 0.38 | 61.7 |
| 5/1/2015 0:46:34 | 41.01 | 35.21 | 1,129 | 0.32 | 0.38 | 61.7 |
| 5/1/2015 0:46:33 | 41.34 | 35.54 | 1,105 | 0.32 | 0.38 | 60.4 |
| 5/1/2015 0:46:34 | 41.67 | 35.87 | 1,105 | 0.32 | 0.38 | 60.4 |
| 5/1/2015 0:46:34 | 41.99 | 36.19 | 1,105 | 0.32 | 0.38 | 60.4 |
| 5/1/2015 0:46:34 | 42.32 | 36.52 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 0:46:35 | 42.65 | 36.85 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 0:46:35 | 42.98 | 37.18 | 1,106 | 0.36 | 0.38 | 60.5 |
| 5/1/2015 0:46:35 | 43.31 | 37.51 | 1,106 | 0.36 | 0.38 | 60.5 |
| 5/1/2015 0:46:35 | 43.64 | 37.84 | 1,120 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 0:46:36 | 43.96 | 38.16 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:37 | 44.29 | 38.49 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:37 | 44.62 | 38.82 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 0:46:37 | 44.95 | 39.15 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 0:46:37 | 45.28 | 39.48 | 1,131 | 0.32 | 0.39 | 61.8 |
| 5/1/2015 0:46:38 | 45.60 | 39.80 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 0:46:38 | 45.93 | 40.13 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 0:46:38 | 46.26 | 40.46 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 0:46:39 | 46.59 | 40.79 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 0:46:39 | 46.92 | 41.12 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 0:46:39 | 47.24 | 41.44 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 0:46:40 | 47.57 | 41.77 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 0:46:40 | 47.90 | 42.10 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 0:46:40 | 48.23 | 42.43 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 0:46:40 | 48.56 | 42.76 | 1,144 | 0.32 | 0.38 | 62.5 |
| 5/1/2015 0:46:41 | 48.88 | 43.08 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 0:46:41 | 49.21 | 43.41 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 0:46:41 | 49.54 | 43.74 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 0:46:42 | 49.87 | 44.07 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 0:46:42 | 50.20 | 44.40 | 1,156 | 0.32 | 0.39 | 63.2 |
| 5/1/2015 0:46:42 | 50.53 | 44.73 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 0:46:43 | 50.85 | 45.05 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 0:46:43 | 51.18 | 45.38 | 1,136 | 0.32 | 0.39 | 62.1 |
| 5/1/2015 0:46:43 | 51.51 | 45.71 | 1,129 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:44 | 51.84 | 46.04 | 1,129 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 0:46:44 | 52.17 | 46.37 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 0:46:44 | 52.49 | 46.69 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 0:46:44 | 52.82 | 47.02 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 0:46:45 | 53.15 | 47.35 | 1,140 | 0.27 | 0.39 | 62.3 |
| 5/1/2015 0:46:46 | 53.48 | 47.68 | 1,140 | 0.27 | 0.39 | 62.3 |
| 5/1/2015 0:46:45 | 53.81 | 48.01 | 1,120 | 0.32 | 0.39 | 61.3 |
| 5/1/2015 0:46:46 | 54.13 | 48.33 | 1,120 | 0.32 | 0.39 | 61.3 |
| 5/1/2015 0:46:46 | 54.46 | 48.66 | 1,135 | 0.32 | 0.39 | 62.0 |
| 5/1/2015 0:46:46 | 54.79 | 48.99 | 1,126 | 0.30 | 0.42 | 61.6 |
| 5/1/2015 0:46:47 | 55.12 | 49.32 | 1,050 | 0.29 | 0.48 | 57.4 |
| 5/1/2015 0:46:52 | 55.45 | 49.65 | 91 | 4.25 | 0.46 | 5.0 |
| 5/1/2015 0:46:55 | 55.77 | 49.97 | 100 | 4.66 | 0.46 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:46:57 | 56.10 | 50.30 | 112 | 4.76 | 0.46 | 6.2 |
| 5/1/2015 | 0:46:59 | 56.43 | 50.63 | 199 | 3.69 | 0.46 | 10.9 |
| 5/1/2015 | 0:47:01 | 56.76 | 50.96 | 176 | 4.02 | 0.46 | 9.6 |
| 5/1/2015 | 0:47:04 | 57.09 | 51.29 | 98 | 3.54 | 0.47 | 5.3 |
| 5/1/2015 | 0:47:09 | 57.41 | 51.61 | 99 | 3.64 | 0.46 | 5.4 |
| 5/1/2015 | 0:47:13 | 57.74 | 51.94 | 74 | 3.62 | 0.47 | 4.1 |
| 5/1/2015 | 0:47:17 | 58.07 | 52.27 | 81 | 3.53 | 0.47 | 4.4 |
| 5/1/2015 | 0:47:24 | 58.40 | 52.60 | 60 | 3.25 | 0.47 | 3.3 |
| 5/1/2015 | 0:47:29 | 58.73 | 52.93 | 81 | 3.69 | 0.47 | 4.4 |
| 5/1/2015 | 0:47:35 | 59.06 | 53.26 | 49 | 3.46 | 0.47 | 2.7 |
| 5/1/2015 | 0:47:40 | 59.38 | 53.58 | 72 | 3.82 | 0.47 | 4.0 |
| 5/1/2015 | 0:47:45 | 59.71 | 53.91 | 68 | 3.45 | 0.47 | 3.7 |
| 5/1/2015 | 0:47:51 | 60.04 | 54.24 | 60 | 3.80 | 0.47 | 3.3 |
| 5/1/2015 | 0:47:56 | 60.37 | 54.57 | 72 | 3.35 | 0.47 | 4.0 |
| 5/1/2015 | 0:48:01 | 60.70 | 54.90 | 86 | 3.70 | 0.47 | 4.7 |
| 5/1/2015 | 0:48:02 | 60.77 | 54.97 | 84 | 3.41 | 0.47 | 4.6 |

## L161 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:44:23

**End Date:**
5/1/2015 0:49:46

**Operator Note:**
'5.8 6.3b Auto Complete'

**Northing:**
359,951.50

**Easting:**
242,784.05

**Tide (feet):**
5.80



## Hole: L162 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:44:29 | 36.09 | 30.29 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:44:30 | 36.42 | 30.62 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:44:30 | 36.75 | 30.95 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:30 | 37.07 | 31.27 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:44:31 | 37.40 | 31.60 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:44:31 | 37.73 | 31.93 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 0:44:31 | 38.06 | 32.26 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:32 | 38.39 | 32.59 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:32 | 38.71 | 32.91 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:32 | 39.04 | 33.24 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:33 | 39.37 | 33.57 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:33 | 39.70 | 33.90 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 0:44:33 | 40.03 | 34.23 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:34 | 40.35 | 34.55 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:34 | 40.68 | 34.88 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:34 | 41.01 | 35.21 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 0:44:35 | 41.34 | 35.54 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 0:44:35 | 41.67 | 35.87 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:35 | 41.99 | 36.19 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:36 | 42.32 | 36.52 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:36 | 42.65 | 36.85 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 0:44:36 | 42.98 | 37.18 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 0:44:37 | 43.31 | 37.51 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 0:44:37 | 43.64 | 37.84 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 0:44:37 | 43.96 | 38.16 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:38 | 44.29 | 38.49 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:38 | 44.62 | 38.82 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 0:44:39 | 44.95 | 39.15 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:39 | 45.28 | 39.48 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:39 | 45.60 | 39.80 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:40 | 45.93 | 40.13 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:40 | 46.26 | 40.46 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:40 | 46.59 | 40.79 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:41 | 46.92 | 41.12 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:41 | 47.24 | 41.44 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:44:41 | 47.57 | 41.77 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:42 | 47.90 | 42.10 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:42 | 48.23 | 42.43 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:42 | 48.56 | 42.76 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:43 | 48.88 | 43.08 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:43 | 49.21 | 43.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:43 | 49.54 | 43.74 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:44 | 49.87 | 44.07 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:44 | 50.20 | 44.40 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:44:44 | 50.53 | 44.73 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:44:45 | 50.85 | 45.05 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:45 | 51.18 | 45.38 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:45 | 51.51 | 45.71 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:46 | 51.84 | 46.04 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:46 | 52.17 | 46.37 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:46 | 52.49 | 46.69 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:47 | 52.82 | 47.02 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:47 | 53.15 | 47.35 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:44:47 | 53.48 | 47.68 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:48 | 53.81 | 48.01 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:48 | 54.13 | 48.33 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:48 | 54.46 | 48.66 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:49 | 54.79 | 48.99 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:49 | 55.12 | 49.32 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:44:58 | 55.45 | 49.65 | 82 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 0:45:03 | 55.77 | 49.97 | 58 | 1.14 | 0.29 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:45:06 | 56.10 | 50.30 | 96 | 1.14 | 0.29 | 5.3 |
| 5/1/2015 | 0:45:10 | 56.43 | 50.63 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 | 0:45:15 | 56.76 | 50.96 | 72 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 | 0:45:21 | 57.09 | 51.29 | 63 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 | 0:45:26 | 57.41 | 51.61 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 0:45:31 | 57.74 | 51.94 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 0:45:38 | 58.07 | 52.27 | 56 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 | 0:45:45 | 58.40 | 52.60 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 0:45:52 | 58.73 | 52.93 | 53 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 0:45:59 | 59.06 | 53.26 | 43 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 0:46:05 | 59.31 | 53.51 | 49 | 1.14 | 0.29 | 2.7 |

## L162 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:43:18

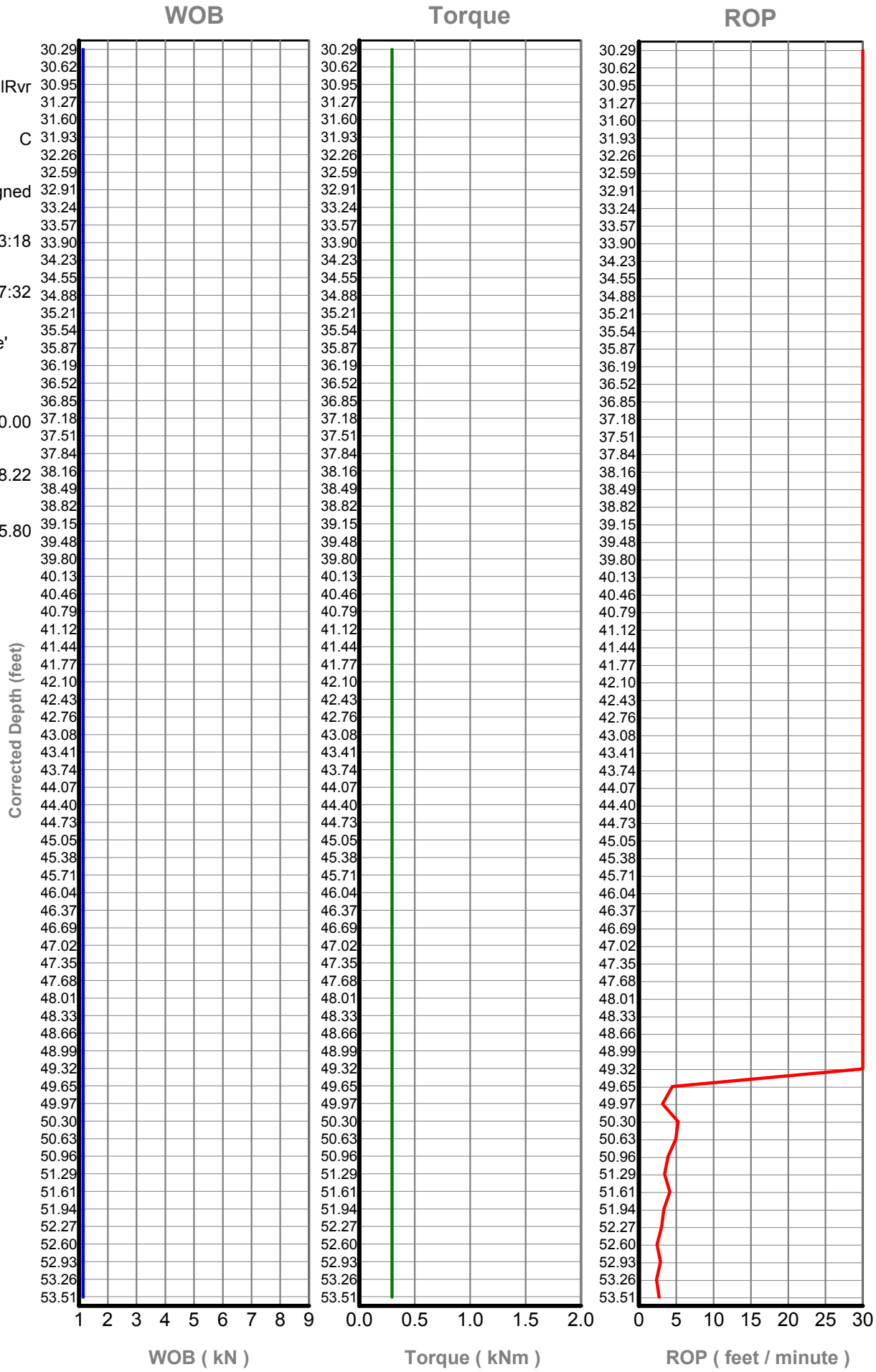
**End Date:**
5/1/2015 0:47:32

**Operator Note:**
'5.8 6.3 c Auto Complete'

**Northing:**
359,990.00

**Easting:**
242,848.22

**Tide (feet):**
5.80



## Hole: L163 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:34:52 | 36.75 | 30.05 | 871 | 1.41 | 0.26 | 47.6 |
| 4/30/2015 23:34:52 | 37.07 | 30.37 | 867 | 1.24 | 0.26 | 47.4 |
| 4/30/2015 23:34:53 | 37.40 | 30.70 | 861 | 1.41 | 0.26 | 47.1 |
| 4/30/2015 23:34:53 | 37.73 | 31.03 | 861 | 1.41 | 0.26 | 47.1 |
| 4/30/2015 23:34:53 | 38.06 | 31.36 | 871 | 1.43 | 0.26 | 47.6 |
| 4/30/2015 23:34:54 | 38.39 | 31.69 | 867 | 1.40 | 0.26 | 47.4 |
| 4/30/2015 23:34:54 | 38.71 | 32.01 | 859 | 1.38 | 0.25 | 47.0 |
| 4/30/2015 23:34:55 | 39.04 | 32.34 | 803 | 1.21 | 0.26 | 43.9 |
| 4/30/2015 23:34:55 | 39.37 | 32.67 | 734 | 1.20 | 0.26 | 40.2 |
| 4/30/2015 23:34:56 | 39.70 | 33.00 | 696 | 1.21 | 0.26 | 38.0 |
| 4/30/2015 23:34:56 | 40.03 | 33.33 | 647 | 1.20 | 0.26 | 35.4 |
| 4/30/2015 23:34:57 | 40.35 | 33.65 | 611 | 1.19 | 0.26 | 33.4 |
| 4/30/2015 23:34:57 | 40.68 | 33.98 | 622 | 1.21 | 0.26 | 34.0 |
| 4/30/2015 23:34:58 | 41.01 | 34.31 | 642 | 1.21 | 0.25 | 35.1 |
| 4/30/2015 23:34:59 | 41.34 | 34.64 | 642 | 1.19 | 0.26 | 35.1 |
| 4/30/2015 23:34:59 | 41.67 | 34.97 | 635 | 1.21 | 0.26 | 34.7 |
| 4/30/2015 23:35:00 | 41.99 | 35.29 | 642 | 1.20 | 0.25 | 35.1 |
| 4/30/2015 23:35:01 | 42.32 | 35.62 | 642 | 1.20 | 0.25 | 35.1 |
| 4/30/2015 23:35:02 | 42.65 | 35.95 | 642 | 1.20 | 0.23 | 35.1 |
| 4/30/2015 23:35:03 | 42.98 | 36.28 | 642 | 1.20 | 0.23 | 35.1 |
| 4/30/2015 23:35:02 | 43.31 | 36.61 | 645 | 1.19 | 0.26 | 35.3 |
| 4/30/2015 23:35:03 | 43.64 | 36.94 | 648 | 1.19 | 0.25 | 35.4 |
| 4/30/2015 23:35:03 | 43.96 | 37.26 | 645 | 1.19 | 0.26 | 35.3 |
| 4/30/2015 23:35:04 | 44.29 | 37.59 | 645 | 1.06 | 0.20 | 35.3 |
| 4/30/2015 23:35:04 | 44.62 | 37.92 | 650 | 1.15 | 0.19 | 35.5 |
| 4/30/2015 23:35:05 | 44.95 | 38.25 | 662 | 1.10 | 0.20 | 36.2 |
| 4/30/2015 23:35:05 | 45.28 | 38.58 | 671 | 1.09 | 0.20 | 36.7 |
| 4/30/2015 23:35:06 | 45.60 | 38.90 | 671 | 1.09 | 0.20 | 36.7 |
| 4/30/2015 23:35:06 | 45.93 | 39.23 | 682 | 1.09 | 0.20 | 37.3 |
| 4/30/2015 23:35:07 | 46.26 | 39.56 | 693 | 1.09 | 0.20 | 37.9 |
| 4/30/2015 23:35:07 | 46.59 | 39.89 | 696 | 1.09 | 0.20 | 38.1 |
| 4/30/2015 23:35:08 | 46.92 | 40.22 | 699 | 1.09 | 0.20 | 38.2 |
| 4/30/2015 23:35:08 | 47.24 | 40.54 | 702 | 1.08 | 0.20 | 38.4 |
| 4/30/2015 23:35:09 | 47.57 | 40.87 | 702 | 1.10 | 0.20 | 38.4 |
| 4/30/2015 23:35:09 | 47.90 | 41.20 | 700 | 1.04 | 0.20 | 38.3 |
| 4/30/2015 23:35:10 | 48.23 | 41.53 | 702 | 1.09 | 0.20 | 38.4 |
| 4/30/2015 23:35:10 | 48.56 | 41.86 | 702 | 1.10 | 0.20 | 38.4 |
| 4/30/2015 23:35:11 | 48.88 | 42.18 | 700 | 1.09 | 0.20 | 38.3 |
| 4/30/2015 23:35:12 | 49.21 | 42.51 | 702 | 1.09 | 0.20 | 38.4 |
| 4/30/2015 23:35:12 | 49.54 | 42.84 | 702 | 1.08 | 0.20 | 38.4 |
| 4/30/2015 23:35:13 | 49.87 | 43.17 | 705 | 1.09 | 0.20 | 38.6 |
| 4/30/2015 23:35:13 | 50.20 | 43.50 | 702 | 1.09 | 0.20 | 38.4 |
| 4/30/2015 23:35:14 | 50.53 | 43.83 | 702 | 1.10 | 0.20 | 38.4 |
| 4/30/2015 23:35:14 | 50.85 | 44.15 | 688 | 1.08 | 0.20 | 37.6 |
| 4/30/2015 23:35:15 | 51.18 | 44.48 | 688 | 1.09 | 0.20 | 37.6 |
| 4/30/2015 23:35:15 | 51.51 | 44.81 | 696 | 1.09 | 0.20 | 38.0 |
| 4/30/2015 23:35:16 | 51.84 | 45.14 | 694 | 1.09 | 0.20 | 37.9 |
| 4/30/2015 23:35:16 | 52.17 | 45.47 | 690 | 1.08 | 0.20 | 37.7 |
| 4/30/2015 23:35:17 | 52.49 | 45.79 | 693 | 1.10 | 0.20 | 37.9 |
| 4/30/2015 23:35:17 | 52.82 | 46.12 | 701 | 1.09 | 0.20 | 38.4 |
| 4/30/2015 23:35:18 | 53.15 | 46.45 | 694 | 1.09 | 0.20 | 37.9 |
| 4/30/2015 23:35:18 | 53.48 | 46.78 | 693 | 1.09 | 0.20 | 37.9 |
| 4/30/2015 23:35:19 | 53.81 | 47.11 | 697 | 1.11 | 0.19 | 38.1 |
| 4/30/2015 23:35:19 | 54.13 | 47.43 | 679 | 1.17 | 0.19 | 37.2 |
| 4/30/2015 23:35:27 | 54.46 | 47.76 | 55 | 1.11 | 0.77 | 3.0 |
| 4/30/2015 23:35:28 | 54.79 | 48.09 | 173 | 1.13 | 0.96 | 9.5 |
| 4/30/2015 23:35:29 | 55.12 | 48.42 | 258 | 1.13 | 1.21 | 14.1 |
| 4/30/2015 23:35:30 | 55.45 | 48.75 | 282 | 1.19 | 1.19 | 15.4 |
| 4/30/2015 23:35:33 | 55.77 | 49.07 | 141 | 1.17 | 1.17 | 7.7 |
| 4/30/2015 23:35:37 | 56.10 | 49.40 | 120 | 1.16 | 1.17 | 6.5 |
| 4/30/2015 23:35:39 | 56.43 | 49.73 | 168 | 1.11 | 1.19 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:35:41 | 56.76 | 50.06 | 177 | 1.05 | 1.01 | 9.7 |
| 4/30/2015 | 23:35:42 | 57.09 | 50.39 | 179 | 1.10 | 0.94 | 9.8 |
| 4/30/2015 | 23:35:45 | 57.41 | 50.71 | 177 | 1.11 | 1.09 | 9.7 |
| 4/30/2015 | 23:35:48 | 57.74 | 51.04 | 118 | 1.11 | 1.19 | 6.5 |
| 4/30/2015 | 23:35:51 | 58.07 | 51.37 | 112 | 1.11 | 1.09 | 6.1 |
| 4/30/2015 | 23:35:56 | 58.40 | 51.70 | 115 | 1.02 | 0.97 | 6.3 |
| 4/30/2015 | 23:36:07 | 58.73 | 52.03 | 35 | 1.13 | 0.89 | 1.9 |
| 4/30/2015 | 23:36:14 | 59.06 | 52.36 | 78 | 1.09 | 1.20 | 4.3 |
| 4/30/2015 | 23:36:21 | 59.38 | 52.68 | 37 | 1.09 | 1.03 | 2.0 |
| 4/30/2015 | 23:36:32 | 59.71 | 53.01 | 34 | 1.02 | 1.06 | 1.9 |
| 4/30/2015 | 23:36:43 | 60.04 | 53.34 | 32 | 1.02 | 0.92 | 1.7 |
| 4/30/2015 | 23:36:50 | 60.19 | 53.49 | 13 | 1.19 | 0.88 | 0.7 |

## L163 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:32:31

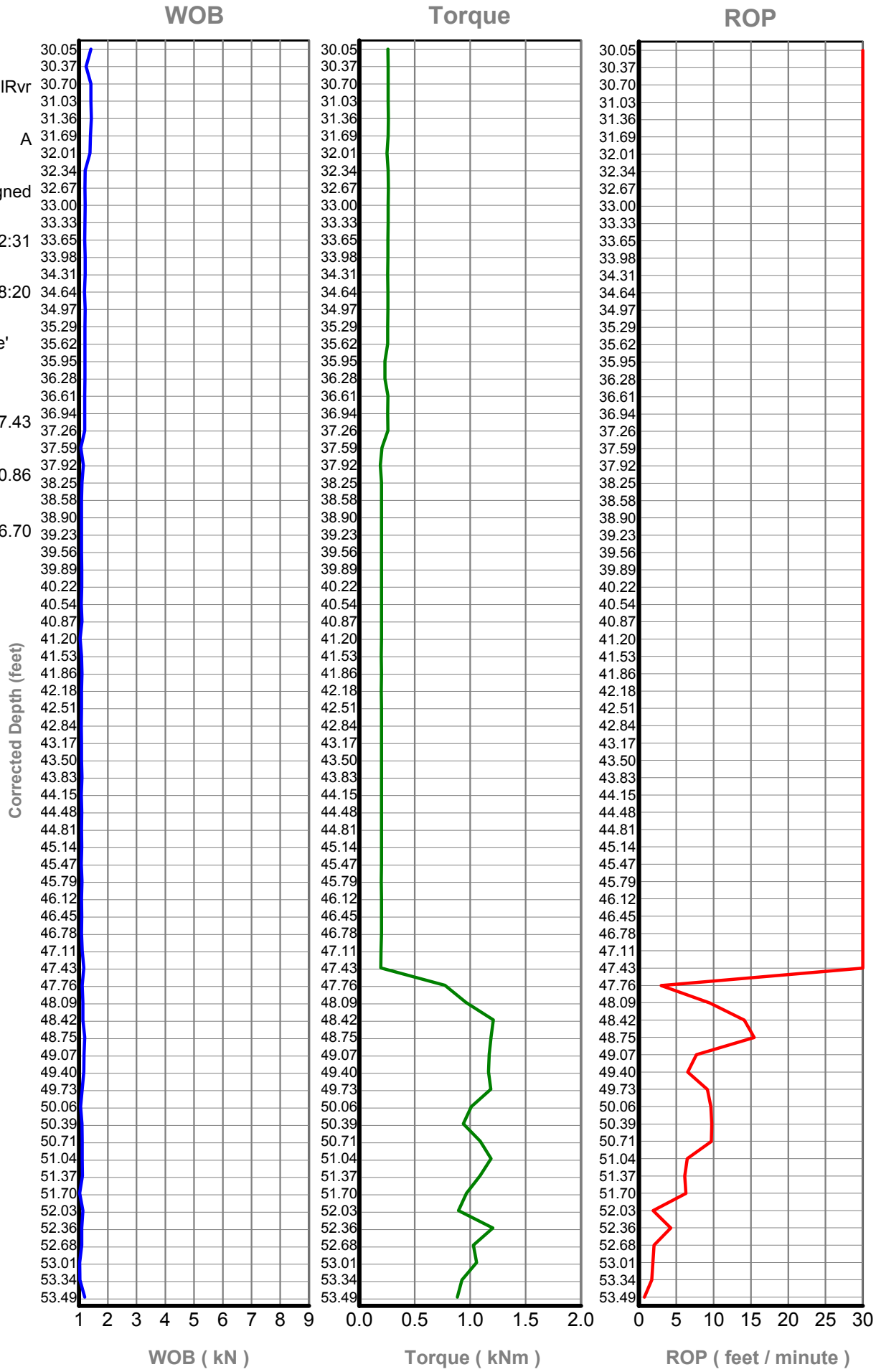
**End Date:**
4/30/2015 23:38:20

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
360,027.43

**Easting:**
242,910.86

**Tide (feet):**
6.70



## Hole: L164 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:22:56 | 36.75 | 30.05 | 1,186 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 23:22:56 | 37.07 | 30.37 | 1,186 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 23:22:56 | 37.40 | 30.70 | 1,170 | 0.31 | 0.38 | 64.0 |
| 4/30/2015 23:22:57 | 37.73 | 31.03 | 1,177 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 23:22:57 | 38.06 | 31.36 | 1,177 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 23:22:58 | 38.39 | 31.69 | 1,180 | 0.31 | 0.38 | 64.5 |
| 4/30/2015 23:22:58 | 38.71 | 32.01 | 1,180 | 0.31 | 0.38 | 64.5 |
| 4/30/2015 23:22:58 | 39.04 | 32.34 | 1,186 | 0.31 | 0.38 | 64.8 |
| 4/30/2015 23:22:59 | 39.37 | 32.67 | 1,186 | 0.31 | 0.38 | 64.8 |
| 4/30/2015 23:22:59 | 39.70 | 33.00 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 23:22:59 | 40.03 | 33.33 | 1,195 | 0.31 | 0.37 | 65.4 |
| 4/30/2015 23:23:00 | 40.35 | 33.65 | 1,195 | 0.31 | 0.37 | 65.4 |
| 4/30/2015 23:23:00 | 40.68 | 33.98 | 1,188 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 23:23:00 | 41.01 | 34.31 | 1,188 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 23:23:00 | 41.34 | 34.64 | 1,188 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 23:23:01 | 41.67 | 34.97 | 1,182 | 0.08 | 0.37 | 64.7 |
| 4/30/2015 23:23:01 | 41.99 | 35.29 | 1,182 | 0.08 | 0.37 | 64.7 |
| 4/30/2015 23:23:01 | 42.32 | 35.62 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:02 | 42.65 | 35.95 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:02 | 42.98 | 36.28 | 1,188 | 0.31 | 0.38 | 65.0 |
| 4/30/2015 23:23:02 | 43.31 | 36.61 | 1,188 | 0.31 | 0.38 | 65.0 |
| 4/30/2015 23:23:02 | 43.64 | 36.94 | 1,188 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 23:23:03 | 43.96 | 37.26 | 1,184 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 23:23:03 | 44.29 | 37.59 | 1,184 | 0.31 | 0.37 | 64.7 |
| 4/30/2015 23:23:03 | 44.62 | 37.92 | 1,200 | 0.31 | 0.37 | 65.6 |
| 4/30/2015 23:23:04 | 44.95 | 38.25 | 1,200 | 0.31 | 0.37 | 65.6 |
| 4/30/2015 23:23:04 | 45.28 | 38.58 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:04 | 45.60 | 38.90 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:04 | 45.93 | 39.23 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:05 | 46.26 | 39.56 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 23:23:05 | 46.59 | 39.89 | 1,187 | 0.31 | 0.37 | 64.9 |
| 4/30/2015 23:23:05 | 46.92 | 40.22 | 1,197 | 0.31 | 0.38 | 65.5 |
| 4/30/2015 23:23:06 | 47.24 | 40.54 | 1,197 | 0.31 | 0.38 | 65.5 |
| 4/30/2015 23:23:06 | 47.57 | 40.87 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:06 | 47.90 | 41.20 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:06 | 48.23 | 41.53 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:07 | 48.56 | 41.86 | 1,190 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 23:23:07 | 48.88 | 42.18 | 1,190 | 0.31 | 0.38 | 65.1 |
| 4/30/2015 23:23:07 | 49.21 | 42.51 | 1,207 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 23:23:08 | 49.54 | 42.84 | 1,207 | 0.31 | 0.37 | 66.0 |
| 4/30/2015 23:23:08 | 49.87 | 43.17 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:09 | 50.20 | 43.50 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:09 | 50.53 | 43.83 | 1,194 | 0.31 | 0.37 | 65.3 |
| 4/30/2015 23:23:09 | 50.85 | 44.15 | 1,188 | 0.59 | 0.38 | 65.0 |
| 4/30/2015 23:23:10 | 51.18 | 44.48 | 1,188 | 0.59 | 0.38 | 65.0 |
| 4/30/2015 23:23:10 | 51.51 | 44.81 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:10 | 51.84 | 45.14 | 1,191 | 0.31 | 0.37 | 65.1 |
| 4/30/2015 23:23:10 | 52.17 | 45.47 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 23:23:11 | 52.49 | 45.79 | 1,185 | 0.31 | 0.37 | 64.8 |
| 4/30/2015 23:23:11 | 52.82 | 46.12 | 1,169 | 0.33 | 0.38 | 63.9 |
| 4/30/2015 23:23:11 | 53.15 | 46.45 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:23:12 | 53.48 | 46.78 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:23:12 | 53.81 | 47.11 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 23:23:12 | 54.13 | 47.43 | 1,176 | 0.31 | 0.37 | 64.3 |
| 4/30/2015 23:23:25 | 54.46 | 47.76 | 35 | 3.87 | 0.46 | 1.9 |
| 4/30/2015 23:23:27 | 54.79 | 48.09 | 147 | 3.54 | 0.45 | 8.1 |
| 4/30/2015 23:23:30 | 55.12 | 48.42 | 147 | 3.39 | 0.46 | 8.1 |
| 4/30/2015 23:23:34 | 55.45 | 48.75 | 87 | 2.93 | 0.46 | 4.7 |
| 4/30/2015 23:23:40 | 55.77 | 49.07 | 64 | 3.62 | 0.47 | 3.5 |
| 4/30/2015 23:23:45 | 56.10 | 49.40 | 69 | 4.76 | 0.46 | 3.8 |
| 4/30/2015 23:23:48 | 56.43 | 49.73 | 104 | 3.86 | 0.46 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:23:52 | 56.76 | 50.06 | 122 | 3.05 | 0.47 | 6.7 |
| 4/30/2015 | 23:23:59 | 57.09 | 50.39 | 38 | 3.31 | 0.46 | 2.1 |
| 4/30/2015 | 23:24:07 | 57.41 | 50.71 | 44 | 2.82 | 0.46 | 2.4 |
| 4/30/2015 | 23:24:12 | 57.74 | 51.04 | 76 | 3.24 | 0.46 | 4.2 |
| 4/30/2015 | 23:24:20 | 58.07 | 51.37 | 43 | 3.41 | 0.47 | 2.3 |
| 4/30/2015 | 23:24:26 | 58.40 | 51.70 | 69 | 3.37 | 0.46 | 3.8 |
| 4/30/2015 | 23:24:30 | 58.73 | 52.03 | 81 | 3.43 | 0.46 | 4.4 |
| 4/30/2015 | 23:24:32 | 59.06 | 52.36 | 137 | 3.69 | 0.46 | 7.5 |
| 4/30/2015 | 23:24:39 | 59.38 | 52.68 | 46 | 2.99 | 0.46 | 2.5 |
| 4/30/2015 | 23:24:48 | 59.71 | 53.01 | 31 | 2.90 | 0.47 | 1.7 |
| 4/30/2015 | 23:24:58 | 60.04 | 53.34 | 49 | 3.57 | 0.46 | 2.7 |
| 4/30/2015 | 23:25:04 | 60.29 | 53.59 | 40 | 3.37 | 0.46 | 2.2 |

## L164 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:21:38

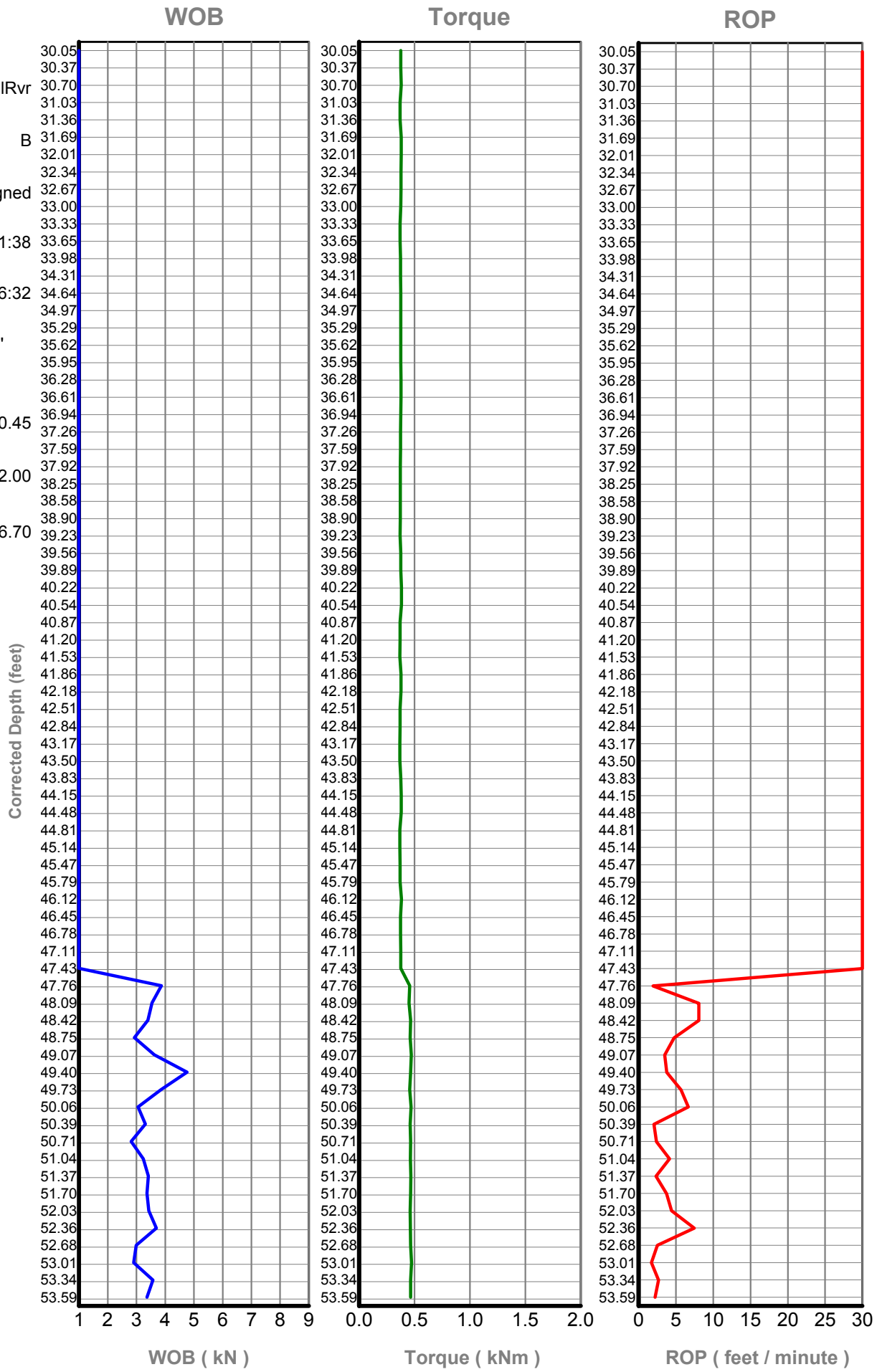
**End Date:**
4/30/2015 23:26:32

**Operator Note:**
'6.7 6.7b Auto Complete'

**Northing:**
360,070.45

**Easting:**
242,972.00

**Tide (feet):**
6.70



## Hole: L165 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:32:46 | 36.75 | 30.05 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 23:32:46 | 37.07 | 30.37 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 23:32:46 | 37.40 | 30.70 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 23:32:47 | 37.73 | 31.03 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 23:32:47 | 38.06 | 31.36 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 23:32:47 | 38.39 | 31.69 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 23:32:48 | 38.71 | 32.01 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:32:48 | 39.04 | 32.34 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:32:48 | 39.37 | 32.67 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:32:49 | 39.70 | 33.00 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:32:49 | 40.03 | 33.33 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:32:49 | 40.35 | 33.65 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 23:32:50 | 40.68 | 33.98 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:32:50 | 41.01 | 34.31 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:32:50 | 41.34 | 34.64 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 23:32:51 | 41.67 | 34.97 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 23:32:51 | 41.99 | 35.29 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 23:32:51 | 42.32 | 35.62 | 1,021 | 1.14 | 0.29 | 55.9 |
| 4/30/2015 23:32:52 | 42.65 | 35.95 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:32:52 | 42.98 | 36.28 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:32:52 | 43.31 | 36.61 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:32:53 | 43.64 | 36.94 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:32:53 | 43.96 | 37.26 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:32:53 | 44.29 | 37.59 | 1,034 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 23:32:54 | 44.62 | 37.92 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:32:54 | 44.95 | 38.25 | 1,020 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:32:54 | 45.28 | 38.58 | 1,034 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 23:32:55 | 45.60 | 38.90 | 1,034 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 23:32:55 | 45.93 | 39.23 | 1,034 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 23:32:55 | 46.26 | 39.56 | 1,040 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 23:32:56 | 46.59 | 39.89 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 23:32:56 | 46.92 | 40.22 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 23:32:56 | 47.24 | 40.54 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:32:57 | 47.57 | 40.87 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 23:32:58 | 47.90 | 41.20 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 23:32:58 | 48.23 | 41.53 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 23:32:58 | 48.56 | 41.86 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:32:59 | 48.88 | 42.18 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:32:59 | 49.21 | 42.51 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 23:32:59 | 49.54 | 42.84 | 1,031 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:33:00 | 49.87 | 43.17 | 1,031 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:33:00 | 50.20 | 43.50 | 1,025 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:33:00 | 50.53 | 43.83 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:33:01 | 50.85 | 44.15 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 23:33:01 | 51.18 | 44.48 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 23:33:01 | 51.51 | 44.81 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 23:33:01 | 51.84 | 45.14 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:33:02 | 52.17 | 45.47 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:33:02 | 52.49 | 45.79 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:33:02 | 52.82 | 46.12 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 23:33:03 | 53.15 | 46.45 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:33:03 | 53.48 | 46.78 | 1,042 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 23:33:03 | 53.81 | 47.11 | 1,039 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 23:33:04 | 54.13 | 47.43 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:04 | 54.46 | 47.76 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:04 | 54.79 | 48.09 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:05 | 55.12 | 48.42 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:05 | 55.45 | 48.75 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:05 | 55.77 | 49.07 | 1,036 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 23:33:06 | 56.10 | 49.40 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 23:33:06 | 56.43 | 49.73 | 1,014 | 1.14 | 0.29 | 55.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:33:07 | 56.76 | 50.06 | 1,014 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 | 23:33:17 | 57.09 | 50.39 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 23:33:18 | 57.41 | 50.71 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 | 23:33:19 | 57.74 | 51.04 | 266 | 1.14 | 0.29 | 14.5 |
| 4/30/2015 | 23:33:19 | 58.07 | 51.37 | 385 | 1.14 | 0.29 | 21.1 |
| 4/30/2015 | 23:33:22 | 58.40 | 51.70 | 289 | 1.14 | 0.29 | 15.8 |
| 4/30/2015 | 23:33:25 | 58.73 | 52.03 | 111 | 1.14 | 0.29 | 6.0 |
| 4/30/2015 | 23:33:28 | 59.06 | 52.36 | 113 | 1.14 | 0.29 | 6.2 |
| 4/30/2015 | 23:33:31 | 59.38 | 52.68 | 86 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 | 23:33:36 | 59.71 | 53.01 | 97 | 1.14 | 0.29 | 5.3 |
| 4/30/2015 | 23:33:40 | 60.04 | 53.34 | 58 | 1.14 | 0.29 | 3.1 |
| 4/30/2015 | 23:33:45 | 60.37 | 53.67 | 89 | 1.14 | 0.29 | 4.9 |
| 4/30/2015 | 23:33:49 | 60.70 | 54.00 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 | 23:33:51 | 61.02 | 54.32 | 133 | 1.14 | 0.29 | 7.3 |
| 4/30/2015 | 23:33:54 | 61.35 | 54.65 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 | 23:33:58 | 61.68 | 54.98 | 122 | 1.14 | 0.29 | 6.7 |

## L165 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:31:40

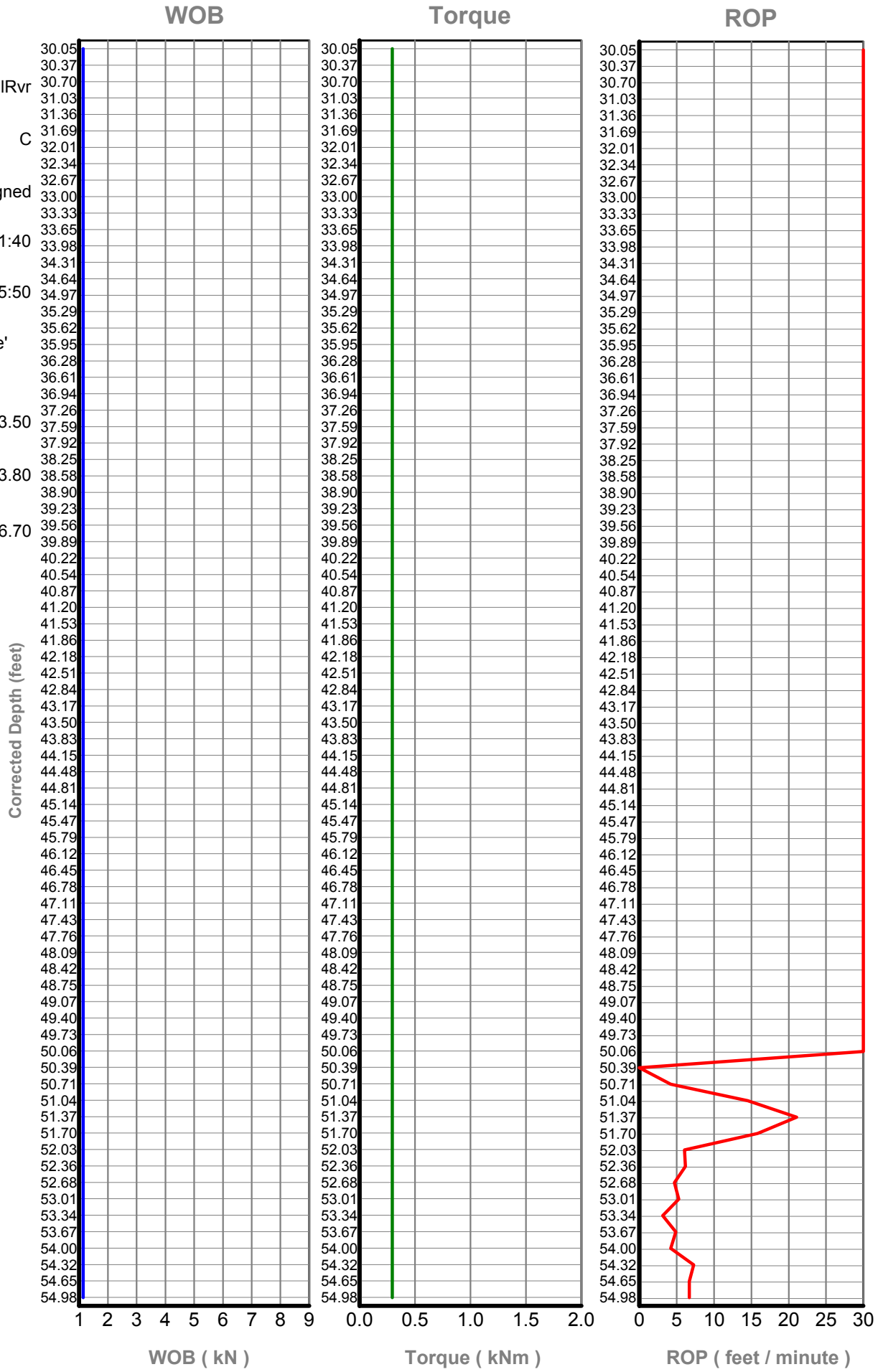
**End Date:**
4/30/2015 23:35:50

**Operator Note:**
'6.7 6.7 c Auto Complete'

**Northing:**
360,113.50

**Easting:**
243,033.80

**Tide (feet):**
6.70



## Hole: L166 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:01:22 | 35.76 | 30.26 | 731 | 1.13 | 0.21 | 40.0 |
| 4/30/2015 21:01:23 | 36.09 | 30.59 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:01:23 | 36.42 | 30.92 | 724 | 1.13 | 0.20 | 39.6 |
| 4/30/2015 21:01:24 | 36.75 | 31.25 | 734 | 1.13 | 0.20 | 40.2 |
| 4/30/2015 21:01:24 | 37.07 | 31.57 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:01:25 | 37.40 | 31.90 | 731 | 1.12 | 0.20 | 40.0 |
| 4/30/2015 21:01:25 | 37.73 | 32.23 | 731 | 1.13 | 0.20 | 40.0 |
| 4/30/2015 21:01:26 | 38.06 | 32.56 | 742 | 1.13 | 0.21 | 40.5 |
| 4/30/2015 21:01:26 | 38.39 | 32.89 | 742 | 1.13 | 0.21 | 40.5 |
| 4/30/2015 21:01:26 | 38.71 | 33.21 | 731 | 1.14 | 0.20 | 40.0 |
| 4/30/2015 21:01:27 | 39.04 | 33.54 | 734 | 1.12 | 0.21 | 40.2 |
| 4/30/2015 21:01:27 | 39.37 | 33.87 | 727 | 1.12 | 0.20 | 39.8 |
| 4/30/2015 21:01:28 | 39.70 | 34.20 | 737 | 1.12 | 0.20 | 40.3 |
| 4/30/2015 21:01:28 | 40.03 | 34.53 | 727 | 1.12 | 0.20 | 39.8 |
| 4/30/2015 21:01:29 | 40.35 | 34.85 | 731 | 1.12 | 0.20 | 40.0 |
| 4/30/2015 21:01:29 | 40.68 | 35.18 | 731 | 1.14 | 0.20 | 40.0 |
| 4/30/2015 21:01:30 | 41.01 | 35.51 | 738 | 1.11 | 0.20 | 40.4 |
| 4/30/2015 21:01:31 | 41.34 | 35.84 | 728 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:31 | 41.67 | 36.17 | 733 | 1.11 | 0.20 | 40.1 |
| 4/30/2015 21:01:32 | 41.99 | 36.49 | 728 | 1.12 | 0.20 | 39.8 |
| 4/30/2015 21:01:32 | 42.32 | 36.82 | 731 | 1.14 | 0.20 | 40.0 |
| 4/30/2015 21:01:33 | 42.65 | 37.15 | 728 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:33 | 42.98 | 37.48 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:01:34 | 43.31 | 37.81 | 727 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:34 | 43.64 | 38.14 | 734 | 1.13 | 0.20 | 40.1 |
| 4/30/2015 21:01:35 | 43.96 | 38.46 | 734 | 1.13 | 0.20 | 40.1 |
| 4/30/2015 21:01:35 | 44.29 | 38.79 | 728 | 1.05 | 0.20 | 39.8 |
| 4/30/2015 21:01:35 | 44.62 | 39.12 | 728 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:36 | 44.95 | 39.45 | 727 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:36 | 45.28 | 39.78 | 732 | 1.12 | 0.22 | 40.0 |
| 4/30/2015 21:01:37 | 45.60 | 40.10 | 729 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:37 | 45.93 | 40.43 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 21:01:38 | 46.26 | 40.76 | 725 | 1.13 | 0.20 | 39.7 |
| 4/30/2015 21:01:38 | 46.59 | 41.09 | 734 | 1.13 | 0.20 | 40.1 |
| 4/30/2015 21:01:39 | 46.92 | 41.42 | 727 | 1.12 | 0.20 | 39.7 |
| 4/30/2015 21:01:39 | 47.24 | 41.74 | 727 | 1.13 | 0.20 | 39.7 |
| 4/30/2015 21:01:40 | 47.57 | 42.07 | 734 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 21:01:40 | 47.90 | 42.40 | 728 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:01:41 | 48.23 | 42.73 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:01:42 | 48.56 | 43.06 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:01:42 | 48.88 | 43.38 | 716 | 1.12 | 0.20 | 39.2 |
| 4/30/2015 21:01:43 | 49.21 | 43.71 | 716 | 1.13 | 0.20 | 39.2 |
| 4/30/2015 21:01:43 | 49.54 | 44.04 | 716 | 1.13 | 0.20 | 39.2 |
| 4/30/2015 21:01:43 | 49.87 | 44.37 | 724 | 1.12 | 0.20 | 39.6 |
| 4/30/2015 21:01:44 | 50.20 | 44.70 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:01:44 | 50.53 | 45.03 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 21:01:45 | 50.85 | 45.35 | 719 | 1.12 | 0.20 | 39.3 |
| 4/30/2015 21:01:45 | 51.18 | 45.68 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:01:46 | 51.51 | 46.01 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:01:46 | 51.84 | 46.34 | 718 | 1.13 | 0.20 | 39.3 |
| 4/30/2015 21:01:47 | 52.17 | 46.67 | 718 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 21:01:47 | 52.49 | 46.99 | 723 | 1.12 | 0.20 | 39.5 |
| 4/30/2015 21:01:48 | 52.82 | 47.32 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:01:48 | 53.15 | 47.65 | 720 | 1.13 | 0.20 | 39.4 |
| 4/30/2015 21:01:49 | 53.48 | 47.98 | 723 | 1.13 | 0.20 | 39.5 |
| 4/30/2015 21:01:49 | 53.81 | 48.31 | 724 | 1.13 | 0.22 | 39.6 |
| 4/30/2015 21:01:50 | 54.13 | 48.63 | 720 | 1.13 | 0.20 | 39.4 |
| 4/30/2015 21:01:50 | 54.46 | 48.96 | 711 | 1.12 | 0.20 | 38.9 |
| 4/30/2015 21:01:51 | 54.79 | 49.29 | 723 | 1.16 | 0.20 | 39.5 |
| 4/30/2015 21:02:33 | 55.12 | 49.62 | 0 | 1.13 | 1.02 | 0.0 |
| 4/30/2015 21:02:35 | 55.45 | 49.95 | 139 | 1.19 | 1.18 | 7.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/30/2015 21:02:42 | 55.77 | 50.27 | 60 | 1.17 | 0.98 | 3.3 |
| 4/30/2015 21:03:02 | 56.10 | 50.60 | 21 | 1.03 | 1.01 | 1.2 |
| 4/30/2015 21:03:09 | 56.43 | 50.93 | 51 | 1.11 | 1.12 | 2.8 |
| 4/30/2015 21:03:12 | 56.76 | 51.26 | 112 | 1.07 | 1.17 | 6.1 |
| 4/30/2015 21:03:13 | 57.09 | 51.59 | 153 | 1.12 | 1.11 | 8.3 |
| 4/30/2015 21:03:17 | 57.41 | 51.91 | 81 | 1.11 | 1.04 | 4.5 |
| 4/30/2015 21:03:23 | 57.74 | 52.24 | 59 | 1.11 | 1.14 | 3.2 |
| 4/30/2015 21:03:43 | 58.07 | 52.57 | 41 | 1.05 | 1.11 | 2.2 |
| 4/30/2015 21:03:49 | 58.40 | 52.90 | 61 | 1.19 | 0.98 | 3.3 |
| 4/30/2015 21:03:57 | 58.73 | 53.23 | 46 | 1.04 | 1.03 | 2.5 |
| 4/30/2015 21:04:03 | 59.06 | 53.56 | 55 | 1.07 | 0.94 | 3.0 |
| 4/30/2015 21:04:14 | 59.38 | 53.88 | 50 | 1.07 | 1.00 | 2.7 |
| 4/30/2015 21:04:21 | 59.70 | 54.20 | 54 | 1.07 | 0.98 | 2.9 |

## L166 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:58:31

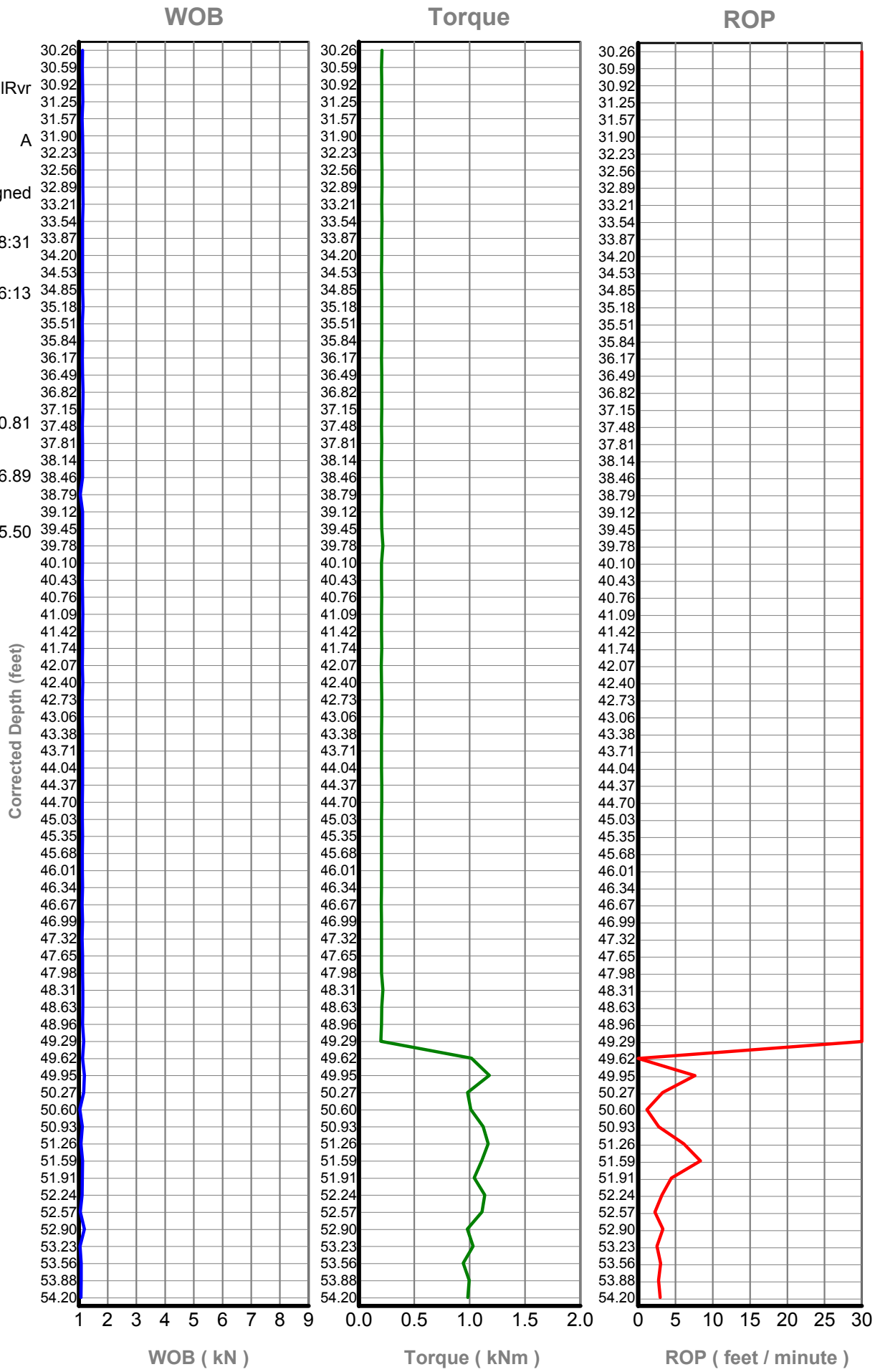
**End Date:**
4/30/2015 21:06:13

**Operator Note:**
'5.5 5 a Auto Complete'

**Northing:**
360,160.81

**Easting:**
243,096.89

**Tide (feet):**
5.50



## Hole: L167 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:01:11 | 35.76 | 30.26 | 1,038 | 0.35 | 0.39 | 56.8 |
| 4/30/2015 21:01:11 | 36.09 | 30.59 | 1,018 | 0.36 | 0.39 | 55.6 |
| 4/30/2015 21:01:12 | 36.42 | 30.92 | 1,024 | 0.36 | 0.40 | 56.0 |
| 4/30/2015 21:01:12 | 36.75 | 31.25 | 1,024 | 0.36 | 0.40 | 56.0 |
| 4/30/2015 21:01:12 | 37.07 | 31.57 | 1,027 | 0.36 | 0.39 | 56.2 |
| 4/30/2015 21:01:13 | 37.40 | 31.90 | 1,048 | 0.36 | 0.39 | 57.3 |
| 4/30/2015 21:01:13 | 37.73 | 32.23 | 1,048 | 0.36 | 0.39 | 57.3 |
| 4/30/2015 21:01:13 | 38.06 | 32.56 | 1,028 | 0.36 | 0.39 | 56.2 |
| 4/30/2015 21:01:14 | 38.39 | 32.89 | 1,028 | 0.36 | 0.39 | 56.2 |
| 4/30/2015 21:01:14 | 38.71 | 33.21 | 1,028 | 0.36 | 0.39 | 56.2 |
| 4/30/2015 21:01:14 | 39.04 | 33.54 | 1,058 | 0.36 | 0.39 | 57.8 |
| 4/30/2015 21:01:15 | 39.37 | 33.87 | 1,058 | 0.36 | 0.39 | 57.8 |
| 4/30/2015 21:01:15 | 39.70 | 34.20 | 1,043 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 21:01:15 | 40.03 | 34.53 | 1,043 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 21:01:16 | 40.35 | 34.85 | 1,043 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 21:01:16 | 40.68 | 35.18 | 1,043 | 0.36 | 0.39 | 57.0 |
| 4/30/2015 21:01:16 | 41.01 | 35.51 | 1,022 | 0.35 | 0.39 | 55.9 |
| 4/30/2015 21:01:17 | 41.34 | 35.84 | 1,022 | 0.35 | 0.39 | 55.9 |
| 4/30/2015 21:01:17 | 41.67 | 36.17 | 1,055 | 0.36 | 0.40 | 57.7 |
| 4/30/2015 21:01:17 | 41.99 | 36.49 | 1,026 | 0.36 | 0.39 | 56.1 |
| 4/30/2015 21:01:18 | 42.32 | 36.82 | 1,026 | 0.36 | 0.39 | 56.1 |
| 4/30/2015 21:01:18 | 42.65 | 37.15 | 1,031 | 0.35 | 0.39 | 56.4 |
| 4/30/2015 21:01:18 | 42.98 | 37.48 | 1,031 | 0.36 | 0.39 | 56.4 |
| 4/30/2015 21:01:19 | 43.31 | 37.81 | 1,031 | 0.36 | 0.39 | 56.4 |
| 4/30/2015 21:01:19 | 43.64 | 38.14 | 1,034 | 0.36 | 0.39 | 56.5 |
| 4/30/2015 21:01:19 | 43.96 | 38.46 | 1,034 | 0.36 | 0.39 | 56.5 |
| 4/30/2015 21:01:20 | 44.29 | 38.79 | 1,034 | 0.36 | 0.39 | 56.5 |
| 4/30/2015 21:01:20 | 44.62 | 39.12 | 1,041 | 0.36 | 0.39 | 56.9 |
| 4/30/2015 21:01:20 | 44.95 | 39.45 | 1,046 | 0.36 | 0.39 | 57.2 |
| 4/30/2015 21:01:21 | 45.28 | 39.78 | 1,046 | 0.36 | 0.39 | 57.2 |
| 4/30/2015 21:01:21 | 45.60 | 40.10 | 1,059 | 0.36 | 0.39 | 57.9 |
| 4/30/2015 21:01:21 | 45.93 | 40.43 | 1,052 | 0.36 | 0.39 | 57.5 |
| 4/30/2015 21:01:22 | 46.26 | 40.76 | 1,052 | 0.36 | 0.39 | 57.5 |
| 4/30/2015 21:01:22 | 46.59 | 41.09 | 1,064 | 0.37 | 0.39 | 58.2 |
| 4/30/2015 21:01:23 | 46.92 | 41.42 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/30/2015 21:01:23 | 47.24 | 41.74 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/30/2015 21:01:23 | 47.57 | 42.07 | 1,058 | 0.35 | 0.39 | 57.9 |
| 4/30/2015 21:01:24 | 47.90 | 42.40 | 1,049 | 0.36 | 0.39 | 57.4 |
| 4/30/2015 21:01:24 | 48.23 | 42.73 | 1,049 | 0.36 | 0.39 | 57.4 |
| 4/30/2015 21:01:24 | 48.56 | 43.06 | 1,049 | 0.36 | 0.39 | 57.4 |
| 4/30/2015 21:01:25 | 48.88 | 43.38 | 1,049 | 0.36 | 0.39 | 57.4 |
| 4/30/2015 21:01:25 | 49.21 | 43.71 | 1,049 | 0.36 | 0.39 | 57.4 |
| 4/30/2015 21:01:25 | 49.54 | 44.04 | 1,049 | 0.37 | 0.39 | 57.4 |
| 4/30/2015 21:01:26 | 49.87 | 44.37 | 1,049 | 0.37 | 0.39 | 57.4 |
| 4/30/2015 21:01:26 | 50.20 | 44.70 | 1,043 | 0.35 | 0.40 | 57.1 |
| 4/30/2015 21:01:26 | 50.53 | 45.03 | 1,043 | 0.36 | 0.39 | 57.1 |
| 4/30/2015 21:01:27 | 50.85 | 45.35 | 1,043 | 0.36 | 0.39 | 57.1 |
| 4/30/2015 21:01:27 | 51.18 | 45.68 | 1,038 | 0.36 | 0.39 | 56.7 |
| 4/30/2015 21:01:27 | 51.51 | 46.01 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/30/2015 21:01:28 | 51.84 | 46.34 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/30/2015 21:01:28 | 52.17 | 46.67 | 1,041 | 0.35 | 0.39 | 56.9 |
| 4/30/2015 21:01:28 | 52.49 | 46.99 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/30/2015 21:01:29 | 52.82 | 47.32 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/30/2015 21:01:29 | 53.15 | 47.65 | 1,044 | 0.35 | 0.39 | 57.1 |
| 4/30/2015 21:01:29 | 53.48 | 47.98 | 1,046 | 0.36 | 0.39 | 57.2 |
| 4/30/2015 21:01:30 | 53.81 | 48.31 | 1,046 | 0.36 | 0.39 | 57.2 |
| 4/30/2015 21:01:30 | 54.13 | 48.63 | 1,043 | 0.35 | 0.43 | 57.1 |
| 4/30/2015 21:01:34 | 54.46 | 48.96 | 97 | 6.65 | 0.46 | 5.3 |
| 4/30/2015 21:01:35 | 54.79 | 49.29 | 191 | 4.26 | 0.46 | 10.4 |
| 4/30/2015 21:01:37 | 55.12 | 49.62 | 260 | 4.86 | 0.48 | 14.2 |
| 4/30/2015 21:01:51 | 55.45 | 49.95 | 9 | 4.45 | 0.46 | 0.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/30/2015 21:01:52 | 55.77 | 50.27 | 102 | 4.04 | 0.45 | 5.6 |
| 4/30/2015 21:01:53 | 56.10 | 50.60 | 179 | 3.58 | 0.45 | 9.8 |
| 4/30/2015 21:01:54 | 56.43 | 50.93 | 322 | 4.27 | 0.44 | 17.6 |
| 4/30/2015 21:01:56 | 56.76 | 51.26 | 306 | 4.26 | 0.46 | 16.7 |
| 4/30/2015 21:01:57 | 57.09 | 51.59 | 240 | 4.68 | 0.47 | 13.1 |
| 4/30/2015 21:01:58 | 57.41 | 51.91 | 238 | 3.96 | 0.45 | 13.0 |
| 4/30/2015 21:02:00 | 57.74 | 52.24 | 246 | 4.13 | 0.46 | 13.5 |
| 4/30/2015 21:02:01 | 58.07 | 52.57 | 249 | 4.95 | 0.47 | 13.6 |
| 4/30/2015 21:02:03 | 58.40 | 52.90 | 190 | 3.87 | 0.47 | 10.4 |
| 4/30/2015 21:02:09 | 58.73 | 53.23 | 57 | 4.05 | 0.48 | 3.1 |
| 4/30/2015 21:02:13 | 59.06 | 53.56 | 101 | 4.60 | 0.47 | 5.5 |
| 4/30/2015 21:02:16 | 59.38 | 53.88 | 147 | 4.51 | 0.47 | 8.1 |
| 4/30/2015 21:02:21 | 59.71 | 54.21 | 58 | 4.28 | 0.47 | 3.2 |
| 4/30/2015 21:02:26 | 60.04 | 54.54 | 78 | 4.11 | 0.47 | 4.2 |
| 4/30/2015 21:02:26 | 60.10 | 54.60 | 78 | 3.87 | 0.47 | 4.3 |

## L167 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:59:35

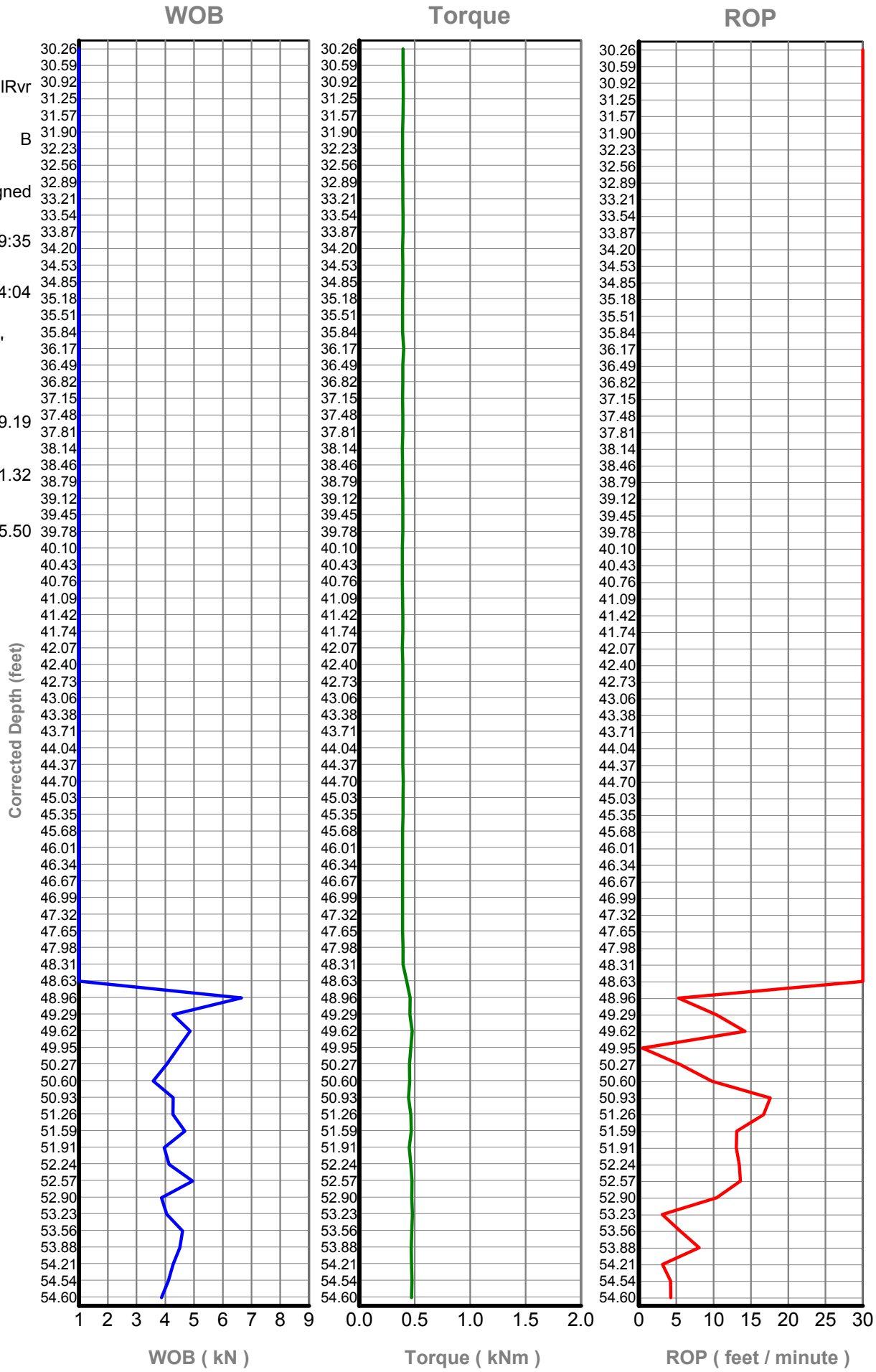
**End Date:**
4/30/2015 21:04:04

**Operator Note:**
'5.5 5.1b Auto Complete'

**Northing:**
360,199.19

**Easting:**
243,161.32

**Tide (feet):**
5.50



## Hole: L168 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 20:59:34 | 35.76 | 30.26 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:35 | 36.09 | 30.59 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 20:59:35 | 36.42 | 30.92 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 20:59:35 | 36.75 | 31.25 | 1,004 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 20:59:36 | 37.07 | 31.57 | 1,004 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 20:59:36 | 37.40 | 31.90 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:37 | 37.73 | 32.23 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:37 | 38.06 | 32.56 | 987 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 20:59:37 | 38.39 | 32.89 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:38 | 38.71 | 33.21 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:38 | 39.04 | 33.54 | 996 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:38 | 39.37 | 33.87 | 987 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 20:59:39 | 39.70 | 34.20 | 987 | 1.14 | 0.29 | 54.0 |
| 4/30/2015 20:59:39 | 40.03 | 34.53 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:40 | 40.35 | 34.85 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:40 | 40.68 | 35.18 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:41 | 41.01 | 35.51 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:41 | 41.34 | 35.84 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:41 | 41.67 | 36.17 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:42 | 41.99 | 36.49 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:42 | 42.32 | 36.82 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:42 | 42.65 | 37.15 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:43 | 42.98 | 37.48 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:43 | 43.31 | 37.81 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 20:59:43 | 43.64 | 38.14 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 20:59:44 | 43.96 | 38.46 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:44 | 44.29 | 38.79 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:44 | 44.62 | 39.12 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:45 | 44.95 | 39.45 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:45 | 45.28 | 39.78 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:45 | 45.60 | 40.10 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:46 | 45.93 | 40.43 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:46 | 46.26 | 40.76 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:46 | 46.59 | 41.09 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:47 | 46.92 | 41.42 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:47 | 47.24 | 41.74 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:48 | 47.57 | 42.07 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:48 | 47.90 | 42.40 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:48 | 48.23 | 42.73 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:49 | 48.56 | 43.06 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:49 | 48.88 | 43.38 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 20:59:49 | 49.21 | 43.71 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 20:59:50 | 49.54 | 44.04 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 20:59:50 | 49.87 | 44.37 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:50 | 50.20 | 44.70 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:51 | 50.53 | 45.03 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:51 | 50.85 | 45.35 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:52 | 51.18 | 45.68 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:52 | 51.51 | 46.01 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 20:59:53 | 51.84 | 46.34 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 20:59:53 | 52.17 | 46.67 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:53 | 52.49 | 46.99 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 20:59:54 | 52.82 | 47.32 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 20:59:54 | 53.15 | 47.65 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:54 | 53.48 | 47.98 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:55 | 53.81 | 48.31 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:55 | 54.13 | 48.63 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 20:59:55 | 54.46 | 48.96 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 20:59:56 | 54.79 | 49.29 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:56 | 55.12 | 49.62 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 20:59:56 | 55.45 | 49.95 | 983 | 1.14 | 0.29 | 53.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:00:14 | 55.77 | 50.27 | 104 | 1.14 | 0.29 | 5.7 |
| 4/30/2015 | 21:00:14 | 56.10 | 50.60 | 178 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 | 21:00:16 | 56.43 | 50.93 | 340 | 1.14 | 0.29 | 18.6 |
| 4/30/2015 | 21:00:17 | 56.76 | 51.26 | 358 | 1.14 | 0.29 | 19.6 |
| 4/30/2015 | 21:00:18 | 57.09 | 51.59 | 354 | 1.14 | 0.29 | 19.4 |
| 4/30/2015 | 21:00:30 | 57.41 | 51.91 | 96 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 | 21:00:32 | 57.74 | 52.24 | 145 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 | 21:00:34 | 58.07 | 52.57 | 151 | 1.14 | 0.29 | 8.3 |
| 4/30/2015 | 21:00:37 | 58.40 | 52.90 | 137 | 1.14 | 0.29 | 7.5 |
| 4/30/2015 | 21:00:42 | 58.73 | 53.23 | 76 | 1.14 | 0.29 | 4.1 |
| 4/30/2015 | 21:00:48 | 59.06 | 53.56 | 44 | 1.14 | 0.29 | 2.4 |
| 4/30/2015 | 21:00:58 | 59.38 | 53.88 | 38 | 1.14 | 0.29 | 2.1 |
| 4/30/2015 | 21:01:08 | 59.71 | 54.21 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 21:01:17 | 60.04 | 54.54 | 41 | 1.14 | 0.29 | 2.2 |
| 4/30/2015 | 21:01:19 | 60.11 | 54.61 | 44 | 1.14 | 0.29 | 2.4 |

## L168 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:58:32

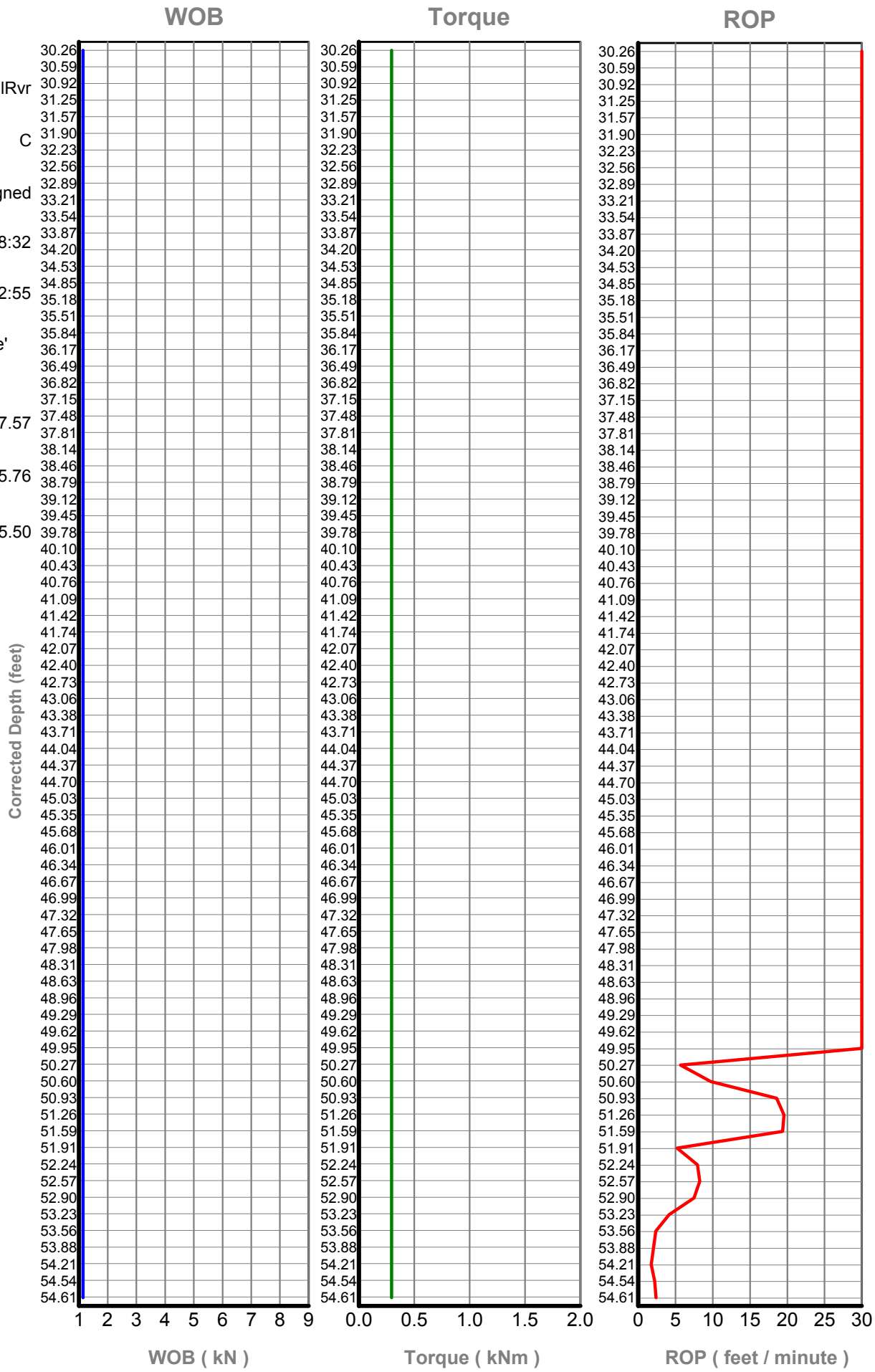
**End Date:**
4/30/2015 21:02:55

**Operator Note:**
'5.5 5.1 c Auto Complete'

**Northing:**
360,237.57

**Easting:**
243,225.76

**Tide (feet):**
5.50



## Hole: L169 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:16:44 | 31.50 | 30.30 | 886 | 1.18 | 0.16 | 48.4 |
| 4/30/2015 18:16:45 | 31.82 | 30.62 | 886 | 1.18 | 0.16 | 48.4 |
| 4/30/2015 18:16:45 | 32.15 | 30.95 | 889 | 1.17 | 0.16 | 48.6 |
| 4/30/2015 18:16:46 | 32.48 | 31.28 | 889 | 1.17 | 0.16 | 48.6 |
| 4/30/2015 18:16:46 | 32.81 | 31.61 | 898 | 1.17 | 0.16 | 49.1 |
| 4/30/2015 18:16:47 | 33.14 | 31.94 | 898 | 1.17 | 0.16 | 49.1 |
| 4/30/2015 18:16:47 | 33.46 | 32.26 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:47 | 33.79 | 32.59 | 887 | 1.17 | 0.16 | 48.5 |
| 4/30/2015 18:16:48 | 34.12 | 32.92 | 885 | 1.19 | 0.16 | 48.4 |
| 4/30/2015 18:16:48 | 34.45 | 33.25 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 18:16:49 | 34.78 | 33.58 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 18:16:49 | 35.11 | 33.91 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:49 | 35.43 | 34.23 | 885 | 1.17 | 0.16 | 48.4 |
| 4/30/2015 18:16:50 | 35.76 | 34.56 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 18:16:50 | 36.09 | 34.89 | 882 | 1.17 | 0.16 | 48.2 |
| 4/30/2015 18:16:50 | 36.42 | 35.22 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 18:16:51 | 36.75 | 35.55 | 879 | 1.18 | 0.16 | 48.1 |
| 4/30/2015 18:16:51 | 37.07 | 35.87 | 887 | 1.18 | 0.16 | 48.5 |
| 4/30/2015 18:16:52 | 37.40 | 36.20 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:52 | 37.73 | 36.53 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:52 | 38.06 | 36.86 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:53 | 38.39 | 37.19 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:53 | 38.71 | 37.51 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:54 | 39.04 | 37.84 | 879 | 1.19 | 0.16 | 48.1 |
| 4/30/2015 18:16:54 | 39.37 | 38.17 | 876 | 1.16 | 0.16 | 47.9 |
| 4/30/2015 18:16:54 | 39.70 | 38.50 | 858 | 1.17 | 0.16 | 46.9 |
| 4/30/2015 18:16:55 | 40.03 | 38.83 | 858 | 1.18 | 0.16 | 46.9 |
| 4/30/2015 18:16:56 | 40.35 | 39.15 | 865 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 18:16:56 | 40.68 | 39.48 | 865 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 18:16:56 | 41.01 | 39.81 | 865 | 1.18 | 0.16 | 47.3 |
| 4/30/2015 18:16:57 | 41.34 | 40.14 | 868 | 1.18 | 0.16 | 47.4 |
| 4/30/2015 18:16:57 | 41.67 | 40.47 | 854 | 1.17 | 0.16 | 46.7 |
| 4/30/2015 18:16:58 | 41.99 | 40.79 | 877 | 1.17 | 0.16 | 48.0 |
| 4/30/2015 18:16:58 | 42.32 | 41.12 | 877 | 1.17 | 0.16 | 48.0 |
| 4/30/2015 18:16:58 | 42.65 | 41.45 | 868 | 1.18 | 0.16 | 47.4 |
| 4/30/2015 18:16:59 | 42.98 | 41.78 | 865 | 1.19 | 0.16 | 47.3 |
| 4/30/2015 18:16:59 | 43.31 | 42.11 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 18:17:00 | 43.64 | 42.44 | 866 | 1.19 | 0.16 | 47.4 |
| 4/30/2015 18:17:00 | 43.96 | 42.76 | 866 | 1.19 | 0.16 | 47.4 |
| 4/30/2015 18:17:00 | 44.29 | 43.09 | 867 | 1.19 | 0.16 | 47.4 |
| 4/30/2015 18:17:01 | 44.62 | 43.42 | 856 | 1.19 | 0.16 | 46.8 |
| 4/30/2015 18:17:01 | 44.95 | 43.75 | 859 | 1.19 | 0.16 | 47.0 |
| 4/30/2015 18:17:02 | 45.28 | 44.08 | 864 | 1.20 | 0.16 | 47.2 |
| 4/30/2015 18:17:02 | 45.60 | 44.40 | 864 | 1.20 | 0.16 | 47.2 |
| 4/30/2015 18:17:02 | 45.93 | 44.73 | 842 | 1.16 | 0.16 | 46.0 |
| 4/30/2015 18:17:03 | 46.26 | 45.06 | 842 | 1.17 | 0.16 | 46.0 |
| 4/30/2015 18:17:03 | 46.59 | 45.39 | 843 | 1.17 | 0.16 | 46.1 |
| 4/30/2015 18:17:04 | 46.92 | 45.72 | 837 | 1.17 | 0.16 | 45.8 |
| 4/30/2015 18:17:05 | 47.24 | 46.04 | 837 | 1.17 | 0.16 | 45.8 |
| 4/30/2015 18:17:04 | 47.57 | 46.37 | 819 | 1.18 | 0.16 | 44.8 |
| 4/30/2015 18:17:05 | 47.90 | 46.70 | 819 | 1.24 | 0.16 | 44.8 |
| 4/30/2015 18:17:05 | 48.23 | 47.03 | 818 | 1.23 | 0.16 | 44.7 |
| 4/30/2015 18:17:06 | 48.56 | 47.36 | 807 | 1.22 | 0.16 | 44.1 |
| 4/30/2015 18:17:07 | 48.88 | 47.68 | 764 | 1.23 | 0.16 | 41.8 |
| 4/30/2015 18:17:07 | 49.21 | 48.01 | 728 | 1.24 | 0.16 | 39.8 |
| 4/30/2015 18:17:08 | 49.54 | 48.34 | 728 | 1.26 | 0.16 | 39.8 |
| 4/30/2015 18:17:18 | 49.87 | 48.67 | 0 | 1.15 | 0.74 | 0.0 |
| 4/30/2015 18:17:19 | 50.20 | 49.00 | 94 | 1.18 | 0.75 | 5.1 |
| 4/30/2015 18:17:19 | 50.53 | 49.33 | 206 | 1.17 | 0.76 | 11.2 |
| 4/30/2015 18:17:20 | 50.85 | 49.65 | 425 | 1.15 | 0.76 | 23.3 |
| 4/30/2015 18:17:21 | 51.18 | 49.98 | 540 | 1.17 | 0.76 | 29.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:17:21 | 51.51 | 50.31 | 549 | 1.16 | 0.76 | 30.0 |
| 4/30/2015 | 18:17:22 | 51.84 | 50.64 | 549 | 1.16 | 0.76 | 30.0 |
| 4/30/2015 | 18:17:23 | 52.17 | 50.97 | 550 | 1.15 | 0.77 | 30.1 |
| 4/30/2015 | 18:17:23 | 52.49 | 51.29 | 545 | 1.17 | 0.75 | 29.8 |
| 4/30/2015 | 18:17:24 | 52.82 | 51.62 | 533 | 1.18 | 0.78 | 29.1 |
| 4/30/2015 | 18:17:25 | 53.15 | 51.95 | 514 | 1.18 | 1.00 | 28.1 |
| 4/30/2015 | 18:17:25 | 53.48 | 52.28 | 485 | 1.17 | 0.84 | 26.5 |
| 4/30/2015 | 18:17:27 | 53.81 | 52.61 | 451 | 1.19 | 0.95 | 24.6 |
| 4/30/2015 | 18:17:28 | 54.13 | 52.93 | 387 | 1.14 | 1.45 | 21.2 |
| 4/30/2015 | 18:17:30 | 54.46 | 53.26 | 191 | 1.21 | 1.23 | 10.4 |
| 4/30/2015 | 18:17:34 | 54.79 | 53.59 | 105 | 1.18 | 1.14 | 5.7 |
| 4/30/2015 | 18:17:37 | 55.12 | 53.92 | 117 | 1.17 | 1.17 | 6.4 |
| 4/30/2015 | 18:17:43 | 55.45 | 54.25 | 26 | 1.09 | 1.47 | 1.4 |
| 4/30/2015 | 18:17:44 | 55.77 | 54.57 | 60 | 1.17 | 0.98 | 3.3 |
| 4/30/2015 | 18:17:45 | 56.10 | 54.90 | 233 | 1.11 | 1.05 | 12.8 |
| 4/30/2015 | 18:17:46 | 56.29 | 55.09 | 264 | 0.70 | 1.35 | 14.4 |

## L169 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:15:18

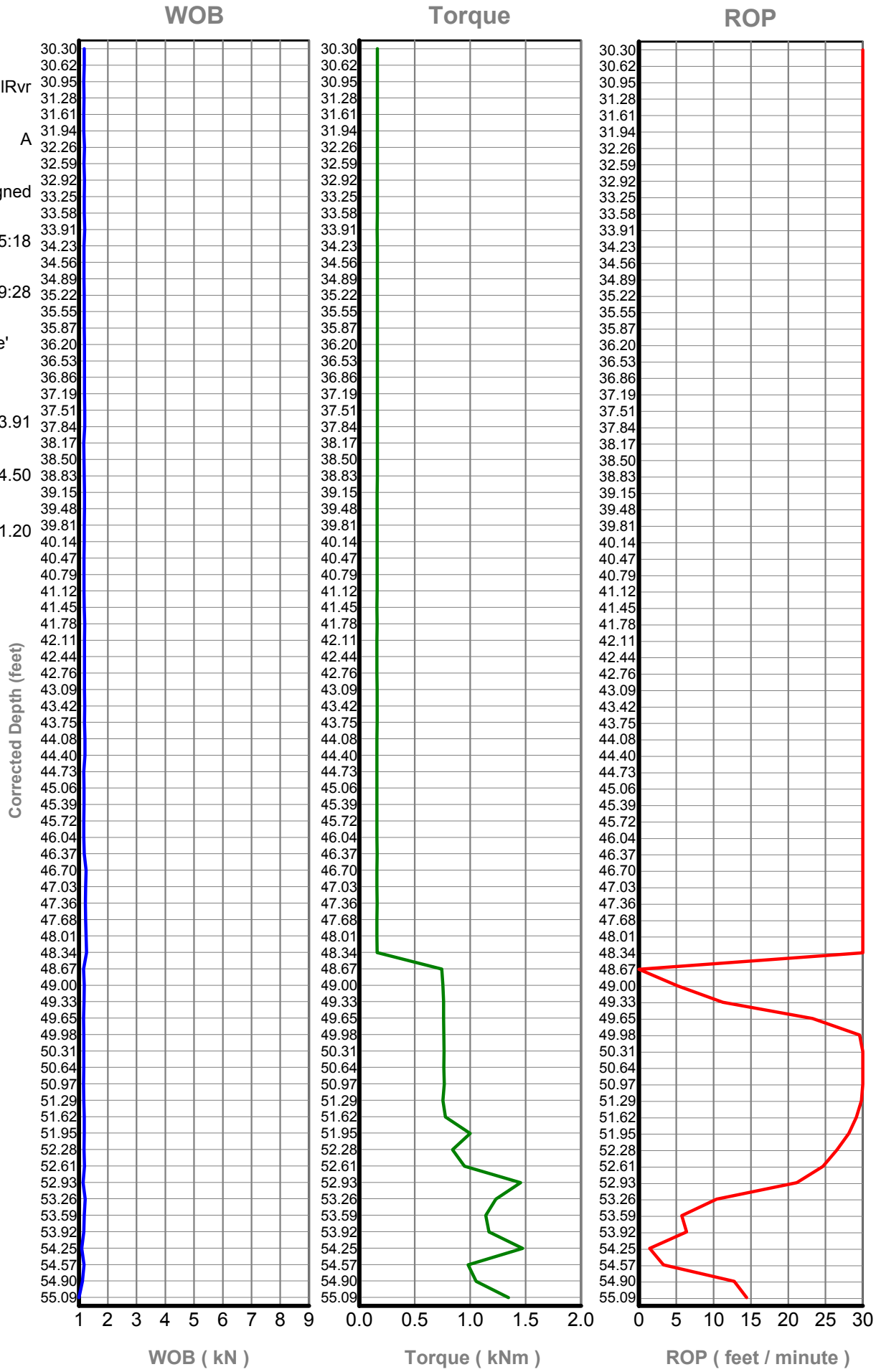
**End Date:**
4/30/2015 18:19:28

**Operator Note:**
'1.2 1.1 a Auto Complete'

**Northing:**
360,273.91

**Easting:**
243,294.50

**Tide (feet):**
1.20



## Hole: L17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:15:22 | 33.79 | 30.29 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:22 | 34.12 | 30.62 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:22 | 34.45 | 30.95 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:23 | 34.78 | 31.28 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:23 | 35.11 | 31.61 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:23 | 35.43 | 31.93 | 1,058 | 0.35 | 0.38 | 57.8 |
| 5/1/2015 8:15:24 | 35.76 | 32.26 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 8:15:25 | 36.09 | 32.59 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 8:15:25 | 36.42 | 32.92 | 1,049 | 0.35 | 0.38 | 57.3 |
| 5/1/2015 8:15:25 | 36.75 | 33.25 | 1,049 | 0.35 | 0.38 | 57.3 |
| 5/1/2015 8:15:25 | 37.07 | 33.57 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 8:15:26 | 37.40 | 33.90 | 1,052 | 0.34 | 0.38 | 57.5 |
| 5/1/2015 8:15:26 | 37.73 | 34.23 | 1,052 | 0.34 | 0.38 | 57.5 |
| 5/1/2015 8:15:26 | 38.06 | 34.56 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 8:15:27 | 38.39 | 34.89 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 8:15:27 | 38.71 | 35.21 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 8:15:27 | 39.04 | 35.54 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:28 | 39.37 | 35.87 | 1,061 | 0.35 | 0.35 | 58.0 |
| 5/1/2015 8:15:28 | 39.70 | 36.20 | 1,061 | 0.35 | 0.35 | 58.0 |
| 5/1/2015 8:15:28 | 40.03 | 36.53 | 1,064 | 0.35 | 0.38 | 58.2 |
| 5/1/2015 8:15:29 | 40.35 | 36.85 | 1,060 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 8:15:29 | 40.68 | 37.18 | 1,060 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 8:15:29 | 41.01 | 37.51 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:30 | 41.34 | 37.84 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:30 | 41.67 | 38.17 | 1,061 | 0.35 | 0.38 | 58.0 |
| 5/1/2015 8:15:30 | 41.99 | 38.49 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:31 | 42.32 | 38.82 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:31 | 42.65 | 39.15 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:31 | 42.98 | 39.48 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:32 | 43.31 | 39.81 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:32 | 43.64 | 40.14 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:32 | 43.96 | 40.46 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:33 | 44.29 | 40.79 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:33 | 44.62 | 41.12 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 8:15:33 | 44.95 | 41.45 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:34 | 45.28 | 41.78 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:34 | 45.60 | 42.10 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:34 | 45.93 | 42.43 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:34 | 46.26 | 42.76 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:35 | 46.59 | 43.09 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:36 | 46.92 | 43.42 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 8:15:36 | 47.24 | 43.74 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 8:15:36 | 47.57 | 44.07 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/1/2015 8:15:37 | 47.90 | 44.40 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/1/2015 8:15:37 | 48.23 | 44.73 | 1,073 | 0.35 | 0.38 | 58.7 |
| 5/1/2015 8:15:37 | 48.56 | 45.06 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 8:15:38 | 48.88 | 45.38 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 8:15:38 | 49.21 | 45.71 | 1,082 | 0.35 | 0.38 | 59.2 |
| 5/1/2015 8:15:38 | 49.54 | 46.04 | 1,082 | 0.35 | 0.38 | 59.2 |
| 5/1/2015 8:15:38 | 49.87 | 46.37 | 1,069 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 8:15:39 | 50.20 | 46.70 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 8:15:39 | 50.53 | 47.03 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 8:15:39 | 50.85 | 47.35 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 8:15:40 | 51.18 | 47.68 | 1,085 | 0.33 | 0.40 | 59.3 |
| 5/1/2015 8:15:40 | 51.51 | 48.01 | 1,085 | 0.33 | 0.40 | 59.3 |
| 5/1/2015 8:15:47 | 51.84 | 48.34 | 0 | 2.70 | 0.40 | 0.0 |
| 5/1/2015 8:15:51 | 52.17 | 48.67 | 0 | 3.26 | 0.41 | 0.0 |
| 5/1/2015 8:15:52 | 52.49 | 48.99 | 129 | 5.02 | 0.47 | 7.0 |
| 5/1/2015 8:15:53 | 52.82 | 49.32 | 294 | 4.35 | 0.43 | 16.1 |
| 5/1/2015 8:15:54 | 53.15 | 49.65 | 303 | 3.77 | 0.45 | 16.6 |
| 5/1/2015 8:15:57 | 53.48 | 49.98 | 136 | 4.00 | 0.44 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:15:58 | 53.81 | 50.31 | 162 | 4.27 | 0.44 | 8.9 |
| 5/1/2015 | 8:15:59 | 54.13 | 50.63 | 280 | 4.33 | 0.45 | 15.3 |
| 5/1/2015 | 8:16:02 | 54.46 | 50.96 | 92 | 4.29 | 0.46 | 5.0 |
| 5/1/2015 | 8:16:05 | 54.79 | 51.29 | 113 | 3.60 | 0.46 | 6.2 |
| 5/1/2015 | 8:16:07 | 55.12 | 51.62 | 127 | 5.14 | 0.44 | 7.0 |
| 5/1/2015 | 8:16:31 | 55.45 | 51.95 | 15 | 5.62 | 0.45 | 0.8 |
| 5/1/2015 | 8:16:32 | 55.77 | 52.27 | 146 | 5.61 | 0.43 | 8.0 |
| 5/1/2015 | 8:16:33 | 56.10 | 52.60 | 229 | 5.07 | 0.42 | 12.5 |
| 5/1/2015 | 8:16:34 | 56.43 | 52.93 | 411 | 6.10 | 0.45 | 22.5 |
| 5/1/2015 | 8:16:38 | 56.76 | 53.26 | 52 | 3.86 | 0.47 | 2.8 |
| 5/1/2015 | 8:16:45 | 57.09 | 53.59 | 55 | 3.94 | 0.47 | 3.0 |
| 5/1/2015 | 8:16:52 | 57.41 | 53.91 | 52 | 4.17 | 0.46 | 2.9 |
| 5/1/2015 | 8:16:57 | 57.72 | 54.22 | 55 | 3.98 | 0.47 | 3.0 |

## L17 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:13:35

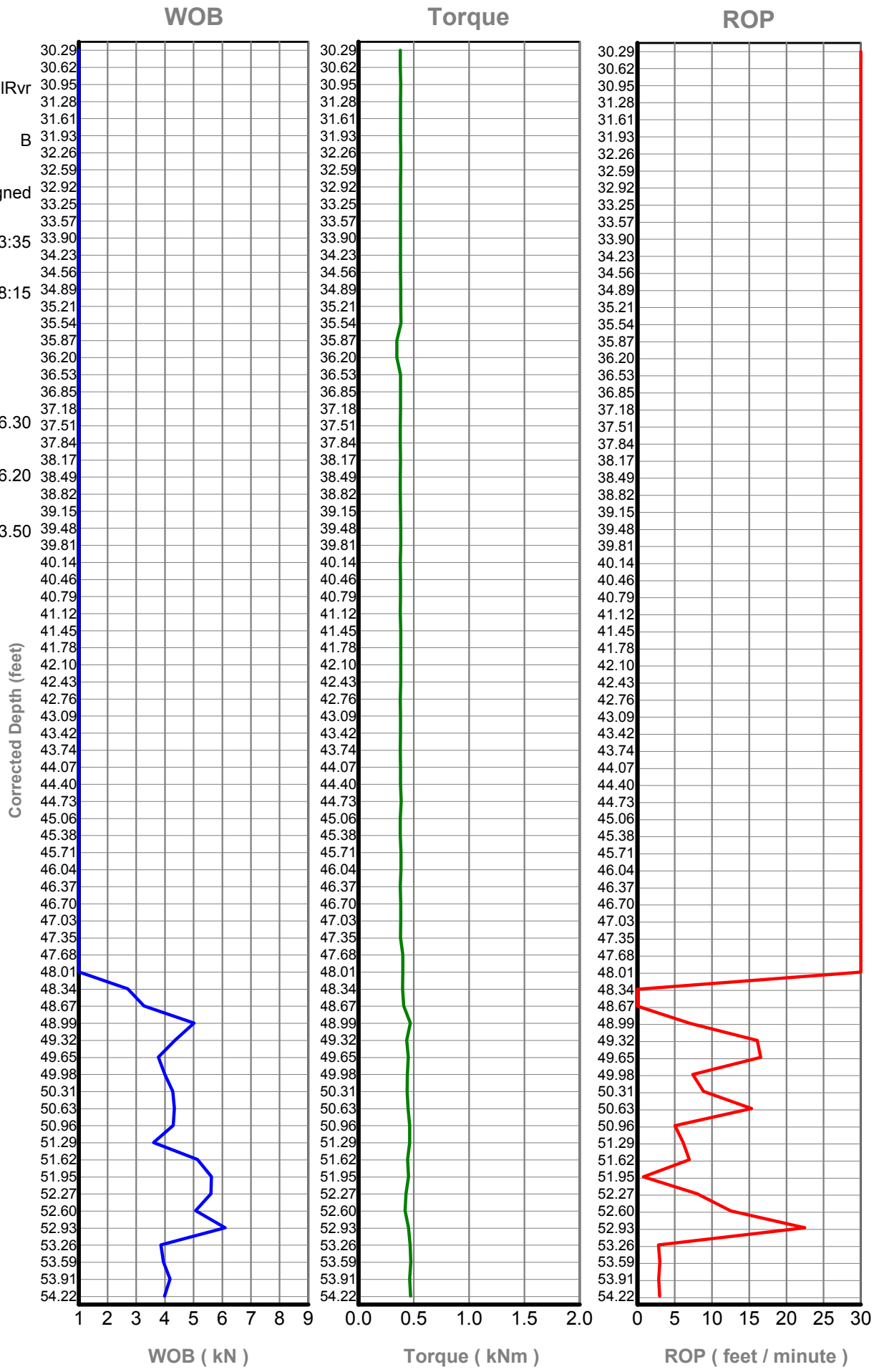
**End Date:**
5/1/2015 8:18:15

**Operator Note:**
'3.5 3.0 b Rock'

**Northing:**
360,096.30

**Easting:**
242,166.20

**Tide (feet):**
3.50



## Hole: L170 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:16:20 | 31.50 | 30.30 | 1,164 | 0.29 | 0.37 | 63.7 |
| 4/30/2015 18:16:20 | 31.82 | 30.62 | 1,164 | 0.30 | 0.38 | 63.7 |
| 4/30/2015 18:16:21 | 32.15 | 30.95 | 1,164 | 0.30 | 0.38 | 63.7 |
| 4/30/2015 18:16:21 | 32.48 | 31.28 | 1,193 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 18:16:21 | 32.81 | 31.61 | 1,193 | 0.29 | 0.38 | 65.3 |
| 4/30/2015 18:16:21 | 33.14 | 31.94 | 1,190 | 0.29 | 0.38 | 65.1 |
| 4/30/2015 18:16:22 | 33.46 | 32.26 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/30/2015 18:16:22 | 33.79 | 32.59 | 1,187 | 0.30 | 0.37 | 64.9 |
| 4/30/2015 18:16:22 | 34.12 | 32.92 | 1,188 | 0.30 | 0.38 | 64.9 |
| 4/30/2015 18:16:23 | 34.45 | 33.25 | 1,188 | 0.30 | 0.38 | 64.9 |
| 4/30/2015 18:16:23 | 34.78 | 33.58 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 18:16:23 | 35.11 | 33.91 | 1,208 | 0.29 | 0.37 | 66.1 |
| 4/30/2015 18:16:23 | 35.43 | 34.23 | 1,195 | 0.30 | 0.36 | 65.4 |
| 4/30/2015 18:16:24 | 35.76 | 34.56 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 18:16:24 | 36.09 | 34.89 | 1,192 | 0.30 | 0.37 | 65.2 |
| 4/30/2015 18:16:24 | 36.42 | 35.22 | 1,177 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 18:16:25 | 36.75 | 35.55 | 1,177 | 0.30 | 0.37 | 64.3 |
| 4/30/2015 18:16:25 | 37.07 | 35.87 | 1,177 | 0.29 | 0.38 | 64.3 |
| 4/30/2015 18:16:25 | 37.40 | 36.20 | 1,177 | 0.29 | 0.38 | 64.3 |
| 4/30/2015 18:16:25 | 37.73 | 36.53 | 1,186 | 0.35 | 0.38 | 64.8 |
| 4/30/2015 18:16:26 | 38.06 | 36.86 | 1,186 | 0.35 | 0.38 | 64.8 |
| 4/30/2015 18:16:26 | 38.39 | 37.19 | 1,186 | 0.35 | 0.38 | 64.8 |
| 4/30/2015 18:16:26 | 38.71 | 37.51 | 1,174 | 0.37 | 0.38 | 64.2 |
| 4/30/2015 18:16:27 | 39.04 | 37.84 | 1,174 | 0.37 | 0.38 | 64.2 |
| 4/30/2015 18:16:27 | 39.37 | 38.17 | 1,171 | 0.36 | 0.37 | 64.0 |
| 4/30/2015 18:16:27 | 39.70 | 38.50 | 1,137 | 0.36 | 0.37 | 62.2 |
| 4/30/2015 18:16:28 | 40.03 | 38.83 | 1,137 | 0.36 | 0.37 | 62.2 |
| 4/30/2015 18:16:28 | 40.35 | 39.15 | 1,137 | 0.41 | 0.40 | 62.2 |
| 4/30/2015 18:16:28 | 40.68 | 39.48 | 1,137 | 0.41 | 0.40 | 62.2 |
| 4/30/2015 18:16:28 | 41.01 | 39.81 | 1,157 | 0.41 | 0.40 | 63.3 |
| 4/30/2015 18:16:29 | 41.34 | 40.14 | 1,161 | 0.41 | 0.41 | 63.5 |
| 4/30/2015 18:16:30 | 41.67 | 40.47 | 1,161 | 0.41 | 0.41 | 63.5 |
| 4/30/2015 18:16:30 | 41.99 | 40.79 | 1,141 | 0.41 | 0.41 | 62.4 |
| 4/30/2015 18:16:30 | 42.32 | 41.12 | 1,141 | 0.41 | 0.41 | 62.4 |
| 4/30/2015 18:16:30 | 42.65 | 41.45 | 1,142 | 0.41 | 0.40 | 62.5 |
| 4/30/2015 18:16:31 | 42.98 | 41.78 | 1,163 | 0.40 | 0.40 | 63.6 |
| 4/30/2015 18:16:31 | 43.31 | 42.11 | 1,163 | 0.40 | 0.40 | 63.6 |
| 4/30/2015 18:16:31 | 43.64 | 42.44 | 1,156 | 0.40 | 0.41 | 63.2 |
| 4/30/2015 18:16:32 | 43.96 | 42.76 | 1,156 | 0.40 | 0.41 | 63.2 |
| 4/30/2015 18:16:43 | 44.29 | 43.09 | 20 | 1.99 | 0.37 | 1.1 |
| 4/30/2015 18:16:44 | 44.62 | 43.42 | 20 | 1.99 | 0.37 | 1.1 |
| 4/30/2015 18:16:44 | 44.95 | 43.75 | 266 | 1.99 | 0.37 | 14.5 |
| 4/30/2015 18:16:44 | 45.28 | 44.08 | 516 | 1.98 | 0.38 | 28.2 |
| 4/30/2015 18:16:45 | 45.60 | 44.40 | 516 | 1.98 | 0.38 | 28.2 |
| 4/30/2015 18:16:45 | 45.93 | 44.73 | 746 | 1.99 | 0.38 | 40.8 |
| 4/30/2015 18:16:45 | 46.26 | 45.06 | 746 | 1.99 | 0.38 | 40.8 |
| 4/30/2015 18:16:45 | 46.59 | 45.39 | 993 | 1.98 | 0.37 | 54.3 |
| 4/30/2015 18:16:46 | 46.92 | 45.72 | 993 | 1.98 | 0.37 | 54.3 |
| 4/30/2015 18:16:46 | 47.24 | 46.04 | 1,223 | 1.97 | 0.37 | 66.9 |
| 4/30/2015 18:16:46 | 47.57 | 46.37 | 1,223 | 1.97 | 0.37 | 66.9 |
| 4/30/2015 18:16:46 | 47.90 | 46.70 | 1,220 | 1.96 | 0.38 | 66.7 |
| 4/30/2015 18:16:47 | 48.23 | 47.03 | 1,191 | 1.98 | 0.37 | 65.1 |
| 4/30/2015 18:16:47 | 48.56 | 47.36 | 1,191 | 1.98 | 0.37 | 65.1 |
| 4/30/2015 18:16:47 | 48.88 | 47.68 | 1,191 | 1.99 | 0.37 | 65.1 |
| 4/30/2015 18:16:48 | 49.21 | 48.01 | 1,191 | 1.99 | 0.37 | 65.1 |
| 4/30/2015 18:16:48 | 49.54 | 48.34 | 1,217 | 4.32 | 0.45 | 66.5 |
| 4/30/2015 18:16:56 | 49.87 | 48.67 | 49 | 4.38 | 0.46 | 2.7 |
| 4/30/2015 18:16:58 | 50.20 | 49.00 | 133 | 3.87 | 0.44 | 7.3 |
| 4/30/2015 18:17:07 | 50.53 | 49.33 | 25 | 6.22 | 0.48 | 1.4 |
| 4/30/2015 18:17:10 | 50.85 | 49.65 | 87 | 5.02 | 0.44 | 4.8 |
| 4/30/2015 18:17:15 | 51.18 | 49.98 | 0 | 3.69 | 0.45 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:17:21 | 51.51 | 50.31 | 23 | 3.62 | 0.46 | 1.3 |
| 4/30/2015 | 18:17:24 | 51.84 | 50.64 | 111 | 3.66 | 0.45 | 6.1 |
| 4/30/2015 | 18:17:27 | 52.17 | 50.97 | 160 | 4.53 | 0.46 | 8.7 |
| 4/30/2015 | 18:18:09 | 52.49 | 51.29 | 49 | 2.76 | 0.47 | 2.7 |
| 4/30/2015 | 18:18:18 | 52.82 | 51.62 | 42 | 3.18 | 0.47 | 2.3 |
| 4/30/2015 | 18:18:23 | 53.15 | 51.95 | 74 | 3.40 | 0.46 | 4.0 |
| 4/30/2015 | 18:18:31 | 53.48 | 52.28 | 41 | 2.78 | 0.47 | 2.3 |

## L170 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:14:30

**End Date:**
4/30/2015 18:19:43

**Operator Note:**
'1.2 1.1 b Rock'

**Northing:**
360,314.34

**Easting:**
243,357.67

**Tide (feet):**
1.20



## Hole: L171 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 18:15:46 | 31.50 | 30.30 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 18:15:46 | 31.82 | 30.62 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 18:15:47 | 32.15 | 30.95 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 18:15:47 | 32.48 | 31.28 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 18:15:47 | 32.81 | 31.61 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 18:15:48 | 33.14 | 31.94 | 1,079 | 1.14 | 0.29 | 59.0 |
| 4/30/2015 18:15:48 | 33.46 | 32.26 | 1,066 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 18:15:48 | 33.79 | 32.59 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 18:15:49 | 34.12 | 32.92 | 1,072 | 1.14 | 0.29 | 58.6 |
| 4/30/2015 18:15:49 | 34.45 | 33.25 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 18:15:49 | 34.78 | 33.58 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 18:15:50 | 35.11 | 33.91 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 18:15:50 | 35.43 | 34.23 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 18:15:50 | 35.76 | 34.56 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:15:51 | 36.09 | 34.89 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:15:51 | 36.42 | 35.22 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:15:51 | 36.75 | 35.55 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 18:15:52 | 37.07 | 35.87 | 1,108 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 18:15:52 | 37.40 | 36.20 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 18:15:52 | 37.73 | 36.53 | 1,107 | 1.14 | 0.29 | 60.5 |
| 4/30/2015 18:15:53 | 38.06 | 36.86 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:15:53 | 38.39 | 37.19 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 18:15:53 | 38.71 | 37.51 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 18:15:54 | 39.04 | 37.84 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 18:15:54 | 39.37 | 38.17 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:15:55 | 39.70 | 38.50 | 1,094 | 1.14 | 0.29 | 59.8 |
| 4/30/2015 18:15:55 | 40.03 | 38.83 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:15:55 | 40.35 | 39.15 | 1,100 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:15:55 | 40.68 | 39.48 | 1,109 | 1.14 | 0.29 | 60.6 |
| 4/30/2015 18:15:56 | 41.01 | 39.81 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 18:15:56 | 41.34 | 40.14 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 18:15:56 | 41.67 | 40.47 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:15:57 | 41.99 | 40.79 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:15:57 | 42.32 | 41.12 | 1,097 | 1.14 | 0.29 | 60.0 |
| 4/30/2015 18:15:57 | 42.65 | 41.45 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:15:58 | 42.98 | 41.78 | 1,084 | 1.14 | 0.29 | 59.3 |
| 4/30/2015 18:15:58 | 43.31 | 42.11 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 18:15:58 | 43.64 | 42.44 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 18:15:59 | 43.96 | 42.76 | 1,075 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 18:15:59 | 44.29 | 43.09 | 1,090 | 1.14 | 0.29 | 59.6 |
| 4/30/2015 18:15:59 | 44.62 | 43.42 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:16:00 | 44.95 | 43.75 | 1,099 | 1.14 | 0.29 | 60.1 |
| 4/30/2015 18:16:00 | 45.28 | 44.08 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:16:00 | 45.60 | 44.40 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:16:00 | 45.93 | 44.73 | 1,080 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:16:01 | 46.26 | 45.06 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 18:16:01 | 46.59 | 45.39 | 1,092 | 1.14 | 0.29 | 59.7 |
| 4/30/2015 18:16:01 | 46.92 | 45.72 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 18:16:02 | 47.24 | 46.04 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 18:16:02 | 47.57 | 46.37 | 1,083 | 1.14 | 0.29 | 59.2 |
| 4/30/2015 18:16:02 | 47.90 | 46.70 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 18:16:03 | 48.23 | 47.03 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:16:03 | 48.56 | 47.36 | 1,082 | 1.14 | 0.29 | 59.1 |
| 4/30/2015 18:16:22 | 48.88 | 47.68 | 8 | 1.14 | 0.29 | 0.5 |
| 4/30/2015 18:16:23 | 49.21 | 48.01 | 91 | 1.14 | 0.29 | 5.0 |
| 4/30/2015 18:16:24 | 49.54 | 48.34 | 166 | 1.14 | 0.29 | 9.1 |
| 4/30/2015 18:16:25 | 49.87 | 48.67 | 333 | 1.14 | 0.29 | 18.2 |
| 4/30/2015 18:16:25 | 50.20 | 49.00 | 408 | 1.14 | 0.29 | 22.3 |
| 4/30/2015 18:16:47 | 50.53 | 49.33 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 18:16:48 | 50.85 | 49.65 | 71 | 1.14 | 0.29 | 3.9 |
| 4/30/2015 18:16:48 | 51.18 | 49.98 | 186 | 1.14 | 0.29 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 18:16:49 | 51.51 | 50.31 | 309 | 1.14 | 0.29 | 16.9 |
| 4/30/2015 | 18:16:49 | 51.84 | 50.64 | 447 | 1.14 | 0.29 | 24.5 |
| 4/30/2015 | 18:16:50 | 52.17 | 50.97 | 577 | 1.14 | 0.29 | 31.5 |
| 4/30/2015 | 18:16:51 | 52.49 | 51.29 | 645 | 1.14 | 0.29 | 35.3 |
| 4/30/2015 | 18:16:51 | 52.82 | 51.62 | 622 | 1.14 | 0.29 | 34.0 |
| 4/30/2015 | 18:16:53 | 53.15 | 51.95 | 517 | 1.14 | 0.29 | 28.3 |
| 4/30/2015 | 18:16:54 | 53.48 | 52.28 | 384 | 1.14 | 0.29 | 21.0 |
| 4/30/2015 | 18:17:14 | 53.81 | 52.61 | 11 | 1.14 | 0.29 | 0.6 |
| 4/30/2015 | 18:17:15 | 54.13 | 52.93 | 145 | 1.14 | 0.29 | 7.9 |
| 4/30/2015 | 18:17:17 | 54.46 | 53.26 | 306 | 1.14 | 0.29 | 16.7 |
| 4/30/2015 | 18:17:42 | 54.79 | 53.59 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 18:17:52 | 55.12 | 53.92 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 18:17:55 | 55.45 | 54.25 | 135 | 1.14 | 0.29 | 7.4 |
| 4/30/2015 | 18:18:04 | 55.77 | 54.57 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 | 18:18:06 | 56.10 | 54.90 | 165 | 1.14 | 0.29 | 9.0 |
| 4/30/2015 | 18:18:07 | 56.42 | 55.22 | 207 | 1.14 | 0.29 | 11.3 |

## L171 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 18:14:37

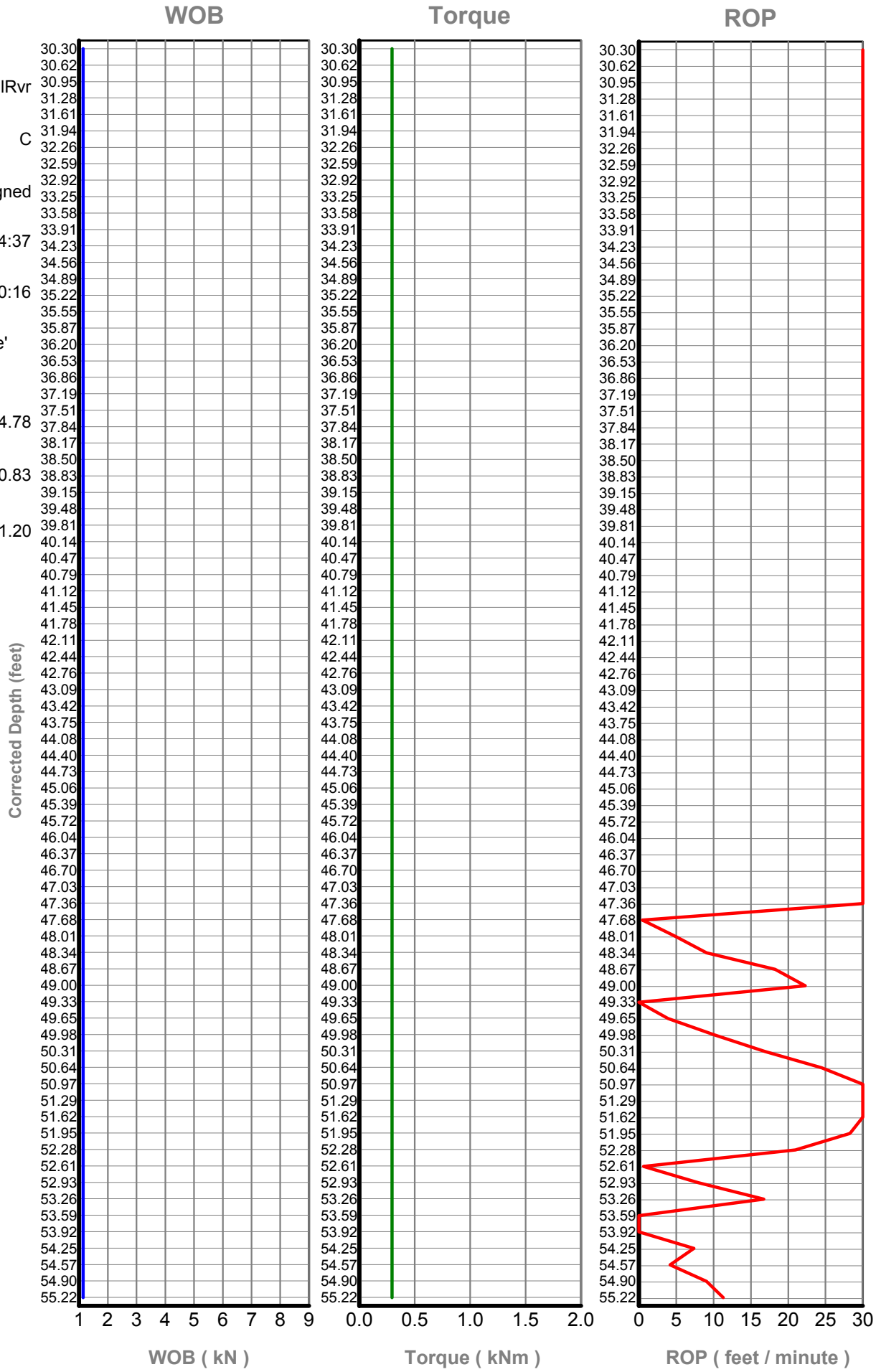
**End Date:**
4/30/2015 18:20:16

**Operator Note:**
'1.2 1.1 c Auto Complete'

**Northing:**
360,354.78

**Easting:**
243,420.83

**Tide (feet):**
1.20



## Hole: L172 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:22:31 | 31.50 | 30.10 | 1,130 | 1.84 | 0.81 | 61.8 |
| 5/1/2015 5:22:30 | 31.82 | 30.42 | 1,090 | 1.85 | 0.82 | 59.6 |
| 5/1/2015 5:22:31 | 32.15 | 30.75 | 1,090 | 1.83 | 0.82 | 59.6 |
| 5/1/2015 5:22:32 | 32.48 | 31.08 | 1,090 | 1.83 | 0.82 | 59.6 |
| 5/1/2015 5:22:32 | 32.81 | 31.41 | 1,117 | 1.84 | 0.80 | 61.1 |
| 5/1/2015 5:22:32 | 33.14 | 31.74 | 1,117 | 1.84 | 0.80 | 61.1 |
| 5/1/2015 5:22:32 | 33.46 | 32.06 | 1,114 | 1.81 | 0.81 | 60.9 |
| 5/1/2015 5:22:33 | 33.79 | 32.39 | 1,117 | 1.83 | 0.82 | 61.1 |
| 5/1/2015 5:22:33 | 34.12 | 32.72 | 1,117 | 1.83 | 0.82 | 61.1 |
| 5/1/2015 5:22:33 | 34.45 | 33.05 | 1,110 | 1.83 | 0.83 | 60.7 |
| 5/1/2015 5:22:34 | 34.78 | 33.38 | 1,110 | 1.83 | 0.83 | 60.7 |
| 5/1/2015 5:22:34 | 35.11 | 33.71 | 1,149 | 1.84 | 0.75 | 62.8 |
| 5/1/2015 5:22:34 | 35.43 | 34.03 | 1,130 | 1.86 | 0.82 | 61.8 |
| 5/1/2015 5:22:35 | 35.76 | 34.36 | 1,130 | 1.86 | 0.82 | 61.8 |
| 5/1/2015 5:22:35 | 36.09 | 34.69 | 1,125 | 1.85 | 0.79 | 61.5 |
| 5/1/2015 5:22:35 | 36.42 | 35.02 | 1,125 | 1.85 | 0.79 | 61.5 |
| 5/1/2015 5:22:35 | 36.75 | 35.35 | 1,131 | 1.83 | 0.80 | 61.9 |
| 5/1/2015 5:22:36 | 37.07 | 35.67 | 1,102 | 1.83 | 0.82 | 60.2 |
| 5/1/2015 5:22:36 | 37.40 | 36.00 | 1,102 | 1.83 | 0.82 | 60.2 |
| 5/1/2015 5:22:36 | 37.73 | 36.33 | 1,102 | 1.83 | 0.82 | 60.2 |
| 5/1/2015 5:22:37 | 38.06 | 36.66 | 1,102 | 1.83 | 0.82 | 60.2 |
| 5/1/2015 5:22:37 | 38.39 | 36.99 | 1,121 | 1.83 | 0.81 | 61.3 |
| 5/1/2015 5:22:37 | 38.71 | 37.31 | 1,111 | 1.80 | 0.26 | 60.8 |
| 5/1/2015 5:22:38 | 39.04 | 37.64 | 1,111 | 1.80 | 0.26 | 60.8 |
| 5/1/2015 5:22:38 | 39.37 | 37.97 | 1,117 | 1.81 | 0.26 | 61.1 |
| 5/1/2015 5:22:38 | 39.70 | 38.30 | 1,117 | 1.81 | 0.26 | 61.1 |
| 5/1/2015 5:22:38 | 40.03 | 38.63 | 1,125 | 1.81 | 0.26 | 61.5 |
| 5/1/2015 5:22:39 | 40.35 | 38.95 | 1,157 | 1.81 | 0.26 | 63.3 |
| 5/1/2015 5:22:40 | 40.68 | 39.28 | 1,157 | 1.81 | 0.26 | 63.3 |
| 5/1/2015 5:22:39 | 41.01 | 39.61 | 1,117 | 1.81 | 0.26 | 61.1 |
| 5/1/2015 5:22:40 | 41.34 | 39.94 | 1,117 | 1.81 | 0.26 | 61.1 |
| 5/1/2015 5:22:40 | 41.67 | 40.27 | 1,117 | 1.83 | 0.26 | 61.1 |
| 5/1/2015 5:22:40 | 41.99 | 40.59 | 1,136 | 1.81 | 0.25 | 62.1 |
| 5/1/2015 5:22:41 | 42.32 | 40.92 | 1,136 | 1.81 | 0.25 | 62.1 |
| 5/1/2015 5:22:41 | 42.65 | 41.25 | 1,150 | 1.82 | 0.26 | 62.9 |
| 5/1/2015 5:22:42 | 42.98 | 41.58 | 1,150 | 1.82 | 0.26 | 62.9 |
| 5/1/2015 5:22:42 | 43.31 | 41.91 | 1,140 | 1.83 | 0.25 | 62.3 |
| 5/1/2015 5:22:42 | 43.64 | 42.24 | 1,137 | 1.83 | 0.25 | 62.2 |
| 5/1/2015 5:22:43 | 43.96 | 42.56 | 1,137 | 1.83 | 0.25 | 62.2 |
| 5/1/2015 5:22:43 | 44.29 | 42.89 | 1,171 | 1.81 | 0.25 | 64.0 |
| 5/1/2015 5:22:43 | 44.62 | 43.22 | 1,171 | 1.81 | 0.25 | 64.0 |
| 5/1/2015 5:22:43 | 44.95 | 43.55 | 1,151 | 1.83 | 0.25 | 63.0 |
| 5/1/2015 5:22:44 | 45.28 | 43.88 | 1,151 | 1.81 | 0.26 | 63.0 |
| 5/1/2015 5:22:44 | 45.60 | 44.20 | 1,151 | 1.81 | 0.26 | 63.0 |
| 5/1/2015 5:22:44 | 45.93 | 44.53 | 1,148 | 1.81 | 0.25 | 62.8 |
| 5/1/2015 5:22:45 | 46.26 | 44.86 | 1,148 | 1.81 | 0.25 | 62.8 |
| 5/1/2015 5:22:45 | 46.59 | 45.19 | 1,151 | 1.82 | 0.26 | 63.0 |
| 5/1/2015 5:22:45 | 46.92 | 45.52 | 1,148 | 1.83 | 0.26 | 62.8 |
| 5/1/2015 5:22:46 | 47.24 | 45.84 | 1,148 | 1.83 | 0.26 | 62.8 |
| 5/1/2015 5:22:46 | 47.57 | 46.17 | 1,152 | 1.91 | 0.25 | 63.0 |
| 5/1/2015 5:22:46 | 47.90 | 46.50 | 1,115 | 1.94 | 0.25 | 61.0 |
| 5/1/2015 5:22:47 | 48.23 | 46.83 | 1,115 | 1.94 | 0.25 | 61.0 |
| 5/1/2015 5:22:47 | 48.56 | 47.16 | 1,092 | 1.95 | 0.25 | 59.7 |
| 5/1/2015 5:22:47 | 48.88 | 47.48 | 1,055 | 1.96 | 0.26 | 57.7 |
| 5/1/2015 5:22:48 | 49.21 | 47.81 | 1,055 | 1.96 | 0.26 | 57.7 |
| 5/1/2015 5:22:48 | 49.54 | 48.14 | 1,014 | 2.00 | 0.25 | 55.5 |
| 5/1/2015 5:22:48 | 49.87 | 48.47 | 1,014 | 2.00 | 0.25 | 55.5 |
| 5/1/2015 5:22:49 | 50.20 | 48.80 | 967 | 2.03 | 0.26 | 52.9 |
| 5/1/2015 5:22:49 | 50.53 | 49.13 | 967 | 2.03 | 0.26 | 52.9 |
| 5/1/2015 5:22:50 | 50.85 | 49.45 | 838 | 1.17 | 0.20 | 45.8 |
| 5/1/2015 5:22:51 | 51.18 | 49.78 | 434 | 1.18 | 0.21 | 23.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:24:50 | 51.51 | 50.11 | 0 | 1.15 | 0.73 | 0.0 |
| 5/1/2015 | 5:24:51 | 51.84 | 50.44 | 100 | 1.16 | 0.73 | 5.5 |
| 5/1/2015 | 5:24:51 | 52.17 | 50.77 | 217 | 1.15 | 0.72 | 11.9 |
| 5/1/2015 | 5:24:52 | 52.49 | 51.09 | 437 | 1.18 | 0.81 | 23.9 |
| 5/1/2015 | 5:24:53 | 52.82 | 51.42 | 510 | 1.19 | 0.91 | 27.9 |
| 5/1/2015 | 5:24:55 | 53.15 | 51.75 | 306 | 1.19 | 0.89 | 16.7 |
| 5/1/2015 | 5:24:57 | 53.48 | 52.08 | 194 | 1.18 | 0.96 | 10.6 |
| 5/1/2015 | 5:24:58 | 53.81 | 52.41 | 239 | 1.17 | 0.93 | 13.1 |
| 5/1/2015 | 5:24:59 | 54.13 | 52.73 | 276 | 1.18 | 0.85 | 15.1 |
| 5/1/2015 | 5:25:00 | 54.46 | 53.06 | 347 | 1.15 | 0.86 | 19.0 |
| 5/1/2015 | 5:25:00 | 54.79 | 53.39 | 401 | 1.19 | 0.86 | 21.9 |
| 5/1/2015 | 5:25:01 | 55.12 | 53.72 | 457 | 1.19 | 0.97 | 25.0 |
| 5/1/2015 | 5:25:03 | 55.45 | 54.05 | 211 | 1.23 | 1.21 | 11.6 |
| 5/1/2015 | 5:25:05 | 55.77 | 54.37 | 156 | 1.18 | 1.09 | 8.5 |
| 5/1/2015 | 5:25:06 | 56.10 | 54.70 | 234 | 1.19 | 1.27 | 12.8 |
| 5/1/2015 | 5:25:07 | 56.43 | 55.03 | 338 | 1.16 | 1.03 | 18.5 |
| 5/1/2015 | 5:25:08 | 56.76 | 55.36 | 384 | 1.17 | 1.03 | 21.0 |
| 5/1/2015 | 5:25:09 | 57.09 | 55.69 | 413 | 1.17 | 1.02 | 22.6 |
| 5/1/2015 | 5:25:09 | 57.41 | 56.01 | 422 | 1.18 | 0.98 | 23.1 |
| 5/1/2015 | 5:25:10 | 57.74 | 56.34 | 439 | 1.17 | 1.08 | 24.0 |
| 5/1/2015 | 5:25:11 | 57.92 | 56.52 | 422 | 1.18 | 1.15 | 23.1 |

## L172 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:20:12

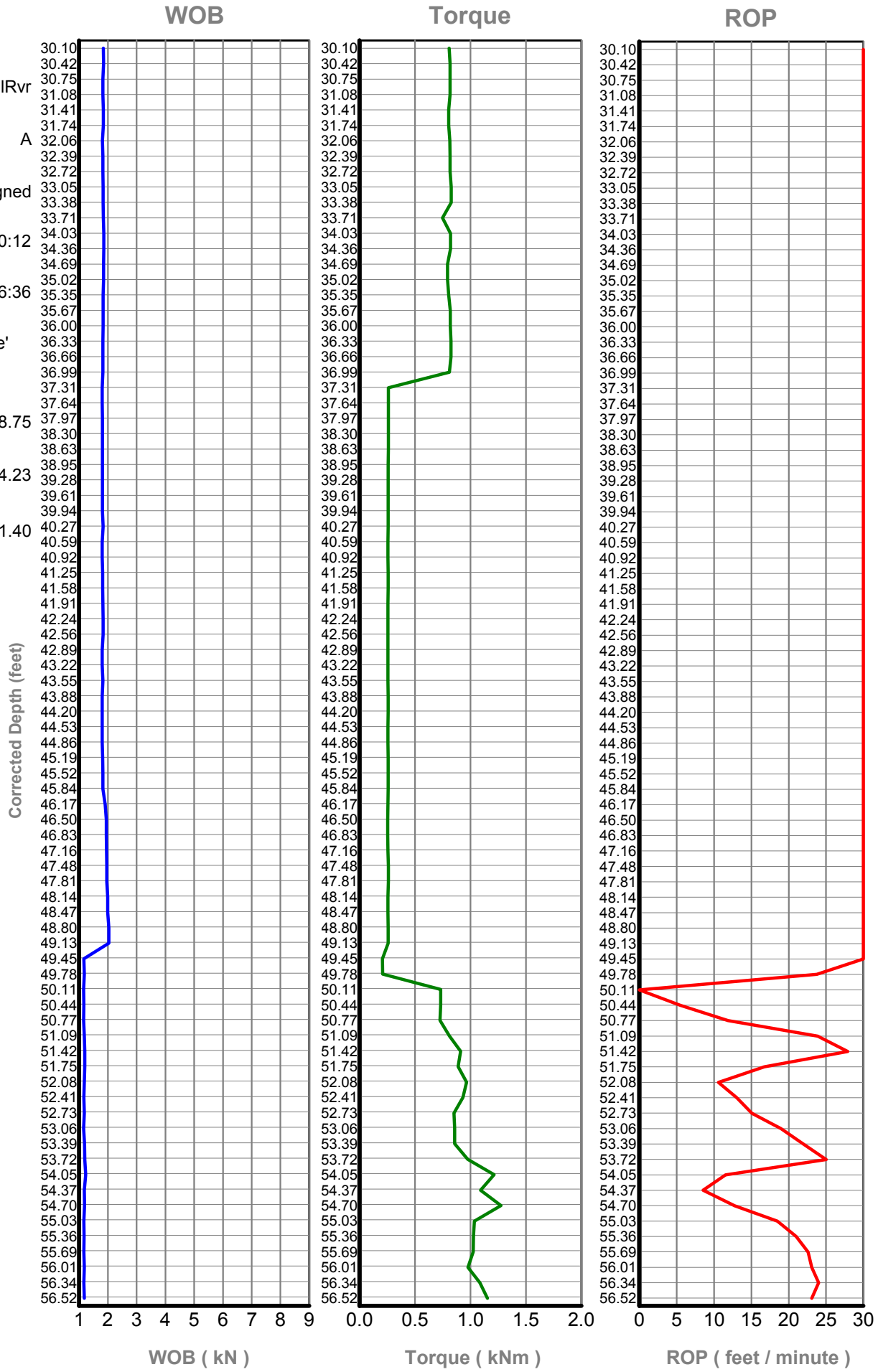
**End Date:**
5/1/2015 5:26:36

**Operator Note:**
'1.4 1.6 a Auto Complete'

**Northing:**
359,608.75

**Easting:**
242,364.23

**Tide (feet):**
1.40



## Hole: L173 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:21:23 | 31.50 | 30.10 | 983 | 0.39 | 0.39 | 53.7 |
| 5/1/2015 5:21:23 | 31.82 | 30.42 | 983 | 0.38 | 0.39 | 53.7 |
| 5/1/2015 5:21:23 | 32.15 | 30.75 | 983 | 0.38 | 0.39 | 53.7 |
| 5/1/2015 5:21:24 | 32.48 | 31.08 | 983 | 0.38 | 0.39 | 53.7 |
| 5/1/2015 5:21:24 | 32.81 | 31.41 | 995 | 0.39 | 0.36 | 54.4 |
| 5/1/2015 5:21:24 | 33.14 | 31.74 | 989 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:25 | 33.46 | 32.06 | 989 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:25 | 33.79 | 32.39 | 998 | 0.39 | 0.39 | 54.6 |
| 5/1/2015 5:21:25 | 34.12 | 32.72 | 984 | 0.39 | 0.40 | 53.8 |
| 5/1/2015 5:21:26 | 34.45 | 33.05 | 984 | 0.39 | 0.40 | 53.8 |
| 5/1/2015 5:21:26 | 34.78 | 33.38 | 999 | 0.39 | 0.39 | 54.6 |
| 5/1/2015 5:21:26 | 35.11 | 33.71 | 996 | 0.38 | 0.39 | 54.5 |
| 5/1/2015 5:21:27 | 35.43 | 34.03 | 993 | 0.38 | 0.39 | 54.3 |
| 5/1/2015 5:21:27 | 35.76 | 34.36 | 993 | 0.38 | 0.39 | 54.3 |
| 5/1/2015 5:21:27 | 36.09 | 34.69 | 981 | 0.38 | 0.39 | 53.7 |
| 5/1/2015 5:21:28 | 36.42 | 35.02 | 989 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:28 | 36.75 | 35.35 | 989 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:28 | 37.07 | 35.67 | 986 | 0.38 | 0.39 | 53.9 |
| 5/1/2015 5:21:29 | 37.40 | 36.00 | 959 | 0.37 | 0.39 | 52.5 |
| 5/1/2015 5:21:29 | 37.73 | 36.33 | 959 | 0.37 | 0.39 | 52.5 |
| 5/1/2015 5:21:29 | 38.06 | 36.66 | 959 | 0.37 | 0.39 | 52.5 |
| 5/1/2015 5:21:30 | 38.39 | 36.99 | 978 | 0.38 | 0.39 | 53.5 |
| 5/1/2015 5:21:31 | 38.71 | 37.31 | 978 | 0.38 | 0.39 | 53.5 |
| 5/1/2015 5:21:31 | 39.04 | 37.64 | 978 | 0.38 | 0.39 | 53.5 |
| 5/1/2015 5:21:31 | 39.37 | 37.97 | 996 | 0.38 | 0.39 | 54.5 |
| 5/1/2015 5:21:32 | 39.70 | 38.30 | 996 | 0.38 | 0.39 | 54.5 |
| 5/1/2015 5:21:32 | 40.03 | 38.63 | 981 | 0.38 | 0.39 | 53.7 |
| 5/1/2015 5:21:32 | 40.35 | 38.95 | 1,011 | 0.38 | 0.39 | 55.3 |
| 5/1/2015 5:21:33 | 40.68 | 39.28 | 1,001 | 0.38 | 0.39 | 54.8 |
| 5/1/2015 5:21:33 | 41.01 | 39.61 | 1,001 | 0.38 | 0.39 | 54.8 |
| 5/1/2015 5:21:33 | 41.34 | 39.94 | 988 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:34 | 41.67 | 40.27 | 988 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:34 | 41.99 | 40.59 | 988 | 0.38 | 0.39 | 54.1 |
| 5/1/2015 5:21:34 | 42.32 | 40.92 | 990 | 0.40 | 0.39 | 54.1 |
| 5/1/2015 5:21:35 | 42.65 | 41.25 | 980 | 0.38 | 0.39 | 53.6 |
| 5/1/2015 5:21:35 | 42.98 | 41.58 | 980 | 0.38 | 0.39 | 53.6 |
| 5/1/2015 5:21:35 | 43.31 | 41.91 | 980 | 0.38 | 0.41 | 53.6 |
| 5/1/2015 5:21:36 | 43.64 | 42.24 | 978 | 0.38 | 0.39 | 53.5 |
| 5/1/2015 5:21:36 | 43.96 | 42.56 | 978 | 0.38 | 0.39 | 53.5 |
| 5/1/2015 5:21:36 | 44.29 | 42.89 | 981 | 0.38 | 0.39 | 53.6 |
| 5/1/2015 5:21:37 | 44.62 | 43.22 | 1,012 | 0.38 | 0.38 | 55.3 |
| 5/1/2015 5:21:37 | 44.95 | 43.55 | 1,012 | 0.38 | 0.38 | 55.3 |
| 5/1/2015 5:21:37 | 45.28 | 43.88 | 987 | 0.38 | 0.39 | 54.0 |
| 5/1/2015 5:21:38 | 45.60 | 44.20 | 1,009 | 0.39 | 0.39 | 55.2 |
| 5/1/2015 5:21:38 | 45.93 | 44.53 | 1,017 | 0.38 | 0.39 | 55.6 |
| 5/1/2015 5:21:39 | 46.26 | 44.86 | 1,017 | 0.38 | 0.39 | 55.6 |
| 5/1/2015 5:21:39 | 46.59 | 45.19 | 1,017 | 0.38 | 0.39 | 55.6 |
| 5/1/2015 5:21:39 | 46.92 | 45.52 | 1,005 | 0.38 | 0.39 | 54.9 |
| 5/1/2015 5:21:40 | 47.24 | 45.84 | 1,005 | 0.38 | 0.39 | 54.9 |
| 5/1/2015 5:21:40 | 47.57 | 46.17 | 1,010 | 0.38 | 0.41 | 55.2 |
| 5/1/2015 5:21:41 | 47.90 | 46.50 | 978 | 0.38 | 0.41 | 53.5 |
| 5/1/2015 5:21:41 | 48.23 | 46.83 | 916 | 0.37 | 0.41 | 50.1 |
| 5/1/2015 5:21:42 | 48.56 | 47.16 | 866 | 0.37 | 0.42 | 47.3 |
| 5/1/2015 5:21:42 | 48.88 | 47.48 | 866 | 0.37 | 0.42 | 47.3 |
| 5/1/2015 5:21:43 | 49.21 | 47.81 | 817 | 0.37 | 0.42 | 44.7 |
| 5/1/2015 5:21:43 | 49.54 | 48.14 | 763 | 0.39 | 0.42 | 41.7 |
| 5/1/2015 5:21:44 | 49.87 | 48.47 | 721 | 0.37 | 0.42 | 39.4 |
| 5/1/2015 5:21:44 | 50.20 | 48.80 | 684 | 0.37 | 0.43 | 37.4 |
| 5/1/2015 5:21:45 | 50.53 | 49.13 | 647 | 0.37 | 0.43 | 35.4 |
| 5/1/2015 5:21:45 | 50.85 | 49.45 | 611 | 0.37 | 0.43 | 33.4 |
| 5/1/2015 5:21:46 | 51.18 | 49.78 | 538 | 0.37 | 0.45 | 29.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:21:54 | 51.51 | 50.11 | 0 | 2.99 | 0.40 | 0.0 |
| 5/1/2015 | 5:21:54 | 51.84 | 50.44 | 50 | 3.03 | 0.41 | 2.7 |
| 5/1/2015 | 5:21:55 | 52.17 | 50.77 | 50 | 3.90 | 0.43 | 2.7 |
| 5/1/2015 | 5:21:56 | 52.49 | 51.09 | 244 | 4.09 | 0.45 | 13.4 |
| 5/1/2015 | 5:21:58 | 52.82 | 51.42 | 227 | 4.60 | 0.47 | 12.4 |
| 5/1/2015 | 5:21:59 | 53.15 | 51.75 | 186 | 4.12 | 0.46 | 10.2 |
| 5/1/2015 | 5:22:00 | 53.48 | 52.08 | 270 | 3.67 | 0.43 | 14.7 |
| 5/1/2015 | 5:22:05 | 53.81 | 52.41 | 0 | 4.60 | 0.44 | 0.0 |
| 5/1/2015 | 5:22:07 | 54.13 | 52.73 | 148 | 3.82 | 0.43 | 8.1 |
| 5/1/2015 | 5:22:08 | 54.46 | 53.06 | 278 | 4.62 | 0.46 | 15.2 |
| 5/1/2015 | 5:22:09 | 54.79 | 53.39 | 287 | 4.09 | 0.44 | 15.7 |
| 5/1/2015 | 5:22:10 | 55.12 | 53.72 | 335 | 4.13 | 0.47 | 18.3 |
| 5/1/2015 | 5:22:13 | 55.45 | 54.05 | 147 | 3.75 | 0.43 | 8.1 |
| 5/1/2015 | 5:22:13 | 55.77 | 54.37 | 184 | 3.54 | 0.43 | 10.1 |
| 5/1/2015 | 5:22:15 | 56.10 | 54.70 | 281 | 3.70 | 0.47 | 15.4 |
| 5/1/2015 | 5:22:18 | 56.43 | 55.03 | 118 | 4.05 | 0.47 | 6.5 |
| 5/1/2015 | 5:22:20 | 56.71 | 55.31 | 127 | 4.10 | 0.47 | 6.9 |

## L173 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:19:51

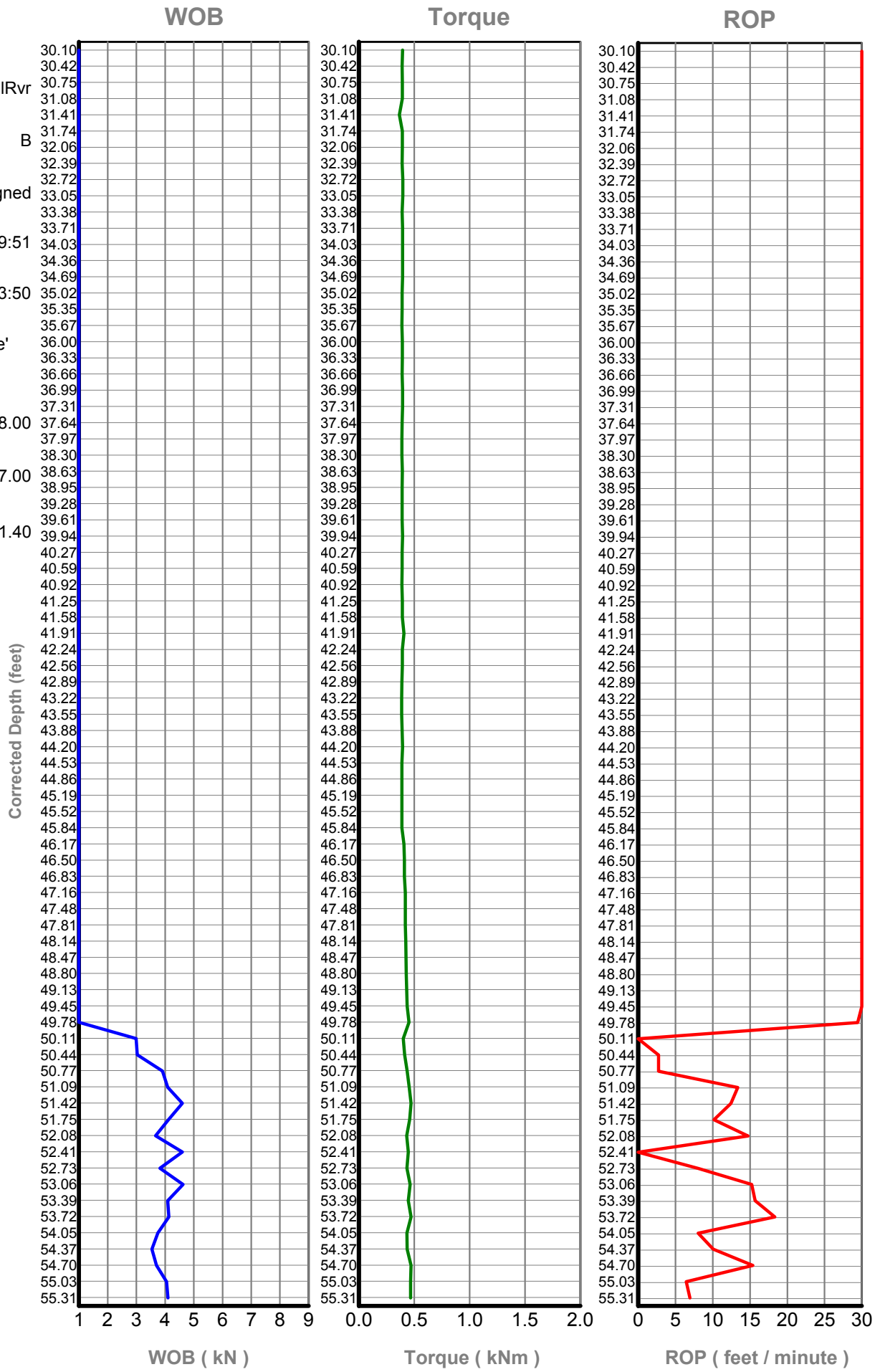
**End Date:**
5/1/2015 5:23:50

**Operator Note:**
'1.4 1.7 b Auto Complete'

**Northing:**
359,648.00

**Easting:**
242,427.00

**Tide (feet):**
1.40



## Hole: L174 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 5:20:27 | 31.50 | 30.10 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 5:20:27 | 31.82 | 30.42 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 5:20:28 | 32.15 | 30.75 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:20:28 | 32.48 | 31.08 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:20:28 | 32.81 | 31.41 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 5:20:29 | 33.14 | 31.74 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 5:20:29 | 33.46 | 32.06 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 5:20:29 | 33.79 | 32.39 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:20:30 | 34.12 | 32.72 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 5:20:30 | 34.45 | 33.05 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:20:31 | 34.78 | 33.38 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 5:20:31 | 35.11 | 33.71 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 5:20:31 | 35.43 | 34.03 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 5:20:32 | 35.76 | 34.36 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 5:20:32 | 36.09 | 34.69 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 5:20:32 | 36.42 | 35.02 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 5:20:33 | 36.75 | 35.35 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 5:20:33 | 37.07 | 35.67 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:33 | 37.40 | 36.00 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:34 | 37.73 | 36.33 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:34 | 38.06 | 36.66 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:35 | 38.39 | 36.99 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:35 | 38.71 | 37.31 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:35 | 39.04 | 37.64 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:36 | 39.37 | 37.97 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 5:20:36 | 39.70 | 38.30 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 5:20:36 | 40.03 | 38.63 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 5:20:37 | 40.35 | 38.95 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 5:20:37 | 40.68 | 39.28 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:38 | 41.01 | 39.61 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:38 | 41.34 | 39.94 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 5:20:38 | 41.67 | 40.27 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 5:20:39 | 41.99 | 40.59 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 5:20:39 | 42.32 | 40.92 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:39 | 42.65 | 41.25 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:40 | 42.98 | 41.58 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:40 | 43.31 | 41.91 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 5:20:40 | 43.64 | 42.24 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:41 | 43.96 | 42.56 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:41 | 44.29 | 42.89 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 5:20:41 | 44.62 | 43.22 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 5:20:42 | 44.95 | 43.55 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:42 | 45.28 | 43.88 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:42 | 45.60 | 44.20 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 5:20:43 | 45.93 | 44.53 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:43 | 46.26 | 44.86 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:43 | 46.59 | 45.19 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 5:20:44 | 46.92 | 45.52 | 998 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 5:20:44 | 47.24 | 45.84 | 998 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 5:20:44 | 47.57 | 46.17 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 5:20:45 | 47.90 | 46.50 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:45 | 48.23 | 46.83 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 5:20:46 | 48.56 | 47.16 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 5:20:54 | 48.88 | 47.48 | 41 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 5:20:54 | 49.21 | 47.81 | 115 | 1.14 | 0.29 | 6.3 |
| 5/1/2015 5:20:55 | 49.54 | 48.14 | 266 | 1.14 | 0.29 | 14.6 |
| 5/1/2015 5:20:55 | 49.87 | 48.47 | 419 | 1.14 | 0.29 | 22.9 |
| 5/1/2015 5:20:56 | 50.20 | 48.80 | 562 | 1.14 | 0.29 | 30.7 |
| 5/1/2015 5:20:56 | 50.53 | 49.13 | 668 | 1.14 | 0.29 | 36.5 |
| 5/1/2015 5:20:57 | 50.85 | 49.45 | 740 | 1.14 | 0.29 | 40.5 |
| 5/1/2015 5:20:57 | 51.18 | 49.78 | 733 | 1.14 | 0.29 | 40.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 5:20:58 | 51.51 | 50.11 | 727 | 1.14 | 0.29 | 39.8 |
| 5/1/2015 | 5:20:59 | 51.84 | 50.44 | 736 | 1.14 | 0.29 | 40.2 |
| 5/1/2015 | 5:21:06 | 52.17 | 50.77 | 91 | 1.14 | 0.29 | 5.0 |
| 5/1/2015 | 5:21:09 | 52.49 | 51.09 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 | 5:21:12 | 52.82 | 51.42 | 149 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 | 5:21:18 | 53.15 | 51.75 | 9 | 1.14 | 0.29 | 0.5 |
| 5/1/2015 | 5:21:32 | 53.48 | 52.08 | 81 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 | 5:21:34 | 53.81 | 52.41 | 209 | 1.14 | 0.29 | 11.4 |
| 5/1/2015 | 5:21:35 | 54.13 | 52.73 | 219 | 1.14 | 0.29 | 12.0 |
| 5/1/2015 | 5:21:36 | 54.46 | 53.06 | 251 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 | 5:21:54 | 54.79 | 53.39 | 25 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 5:21:55 | 55.12 | 53.72 | 163 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 | 5:21:57 | 55.45 | 54.05 | 215 | 1.14 | 0.29 | 11.8 |
| 5/1/2015 | 5:21:59 | 55.77 | 54.37 | 186 | 1.14 | 0.29 | 10.2 |
| 5/1/2015 | 5:22:01 | 56.10 | 54.70 | 210 | 1.14 | 0.29 | 11.5 |
| 5/1/2015 | 5:22:01 | 56.43 | 55.03 | 264 | 1.14 | 0.29 | 14.4 |
| 5/1/2015 | 5:22:03 | 56.62 | 55.22 | 279 | 1.14 | 0.29 | 15.2 |

## L174 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 5:19:09

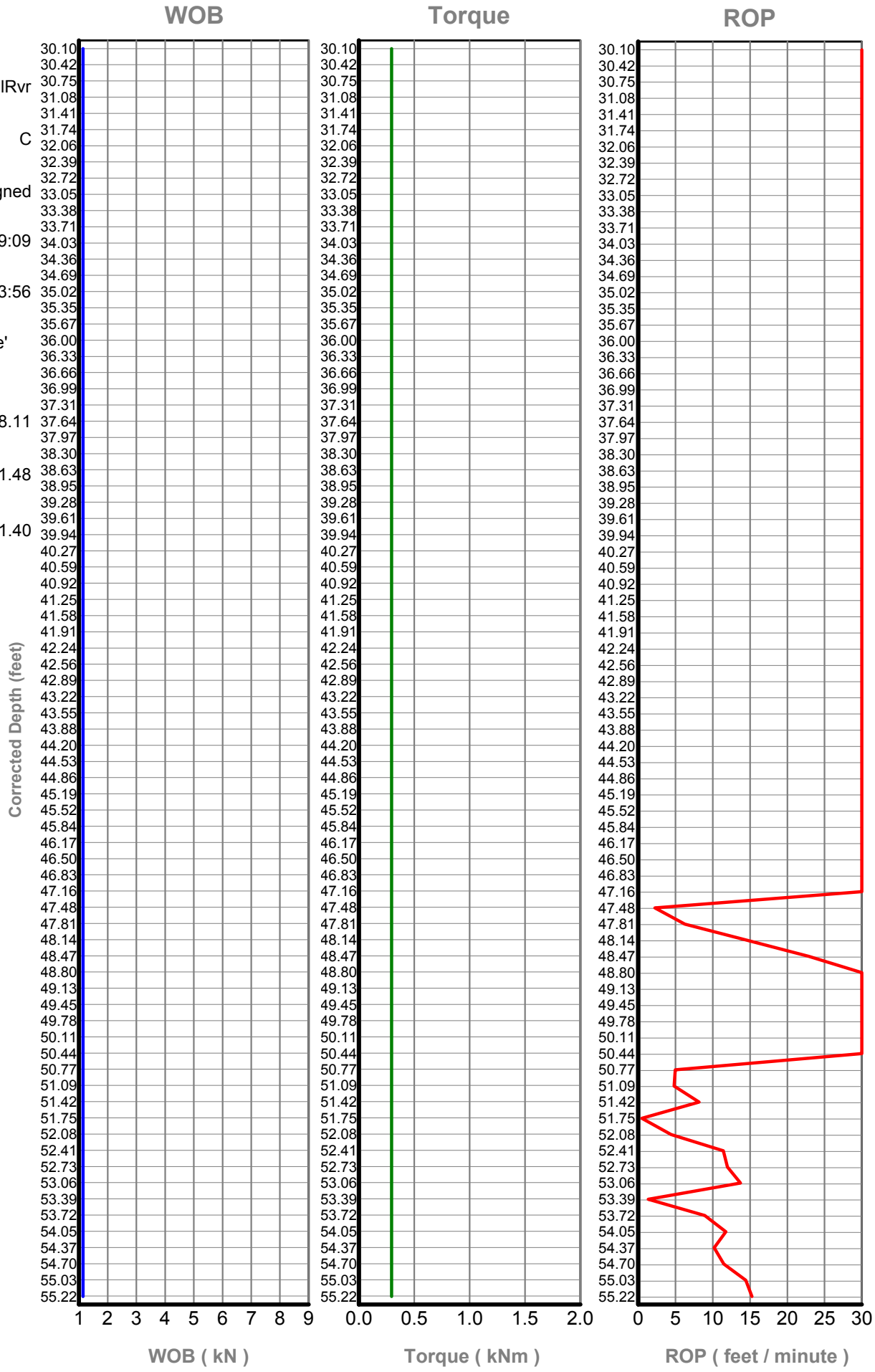
**End Date:**
5/1/2015 5:23:56

**Operator Note:**
'1.4 1.6 c Auto Complete'

**Northing:**
359,688.11

**Easting:**
242,491.48

**Tide (feet):**
1.40



## Hole: L175 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:35:36 | 32.15 | 30.15 | 1,179 | 1.74 | 0.79 | 64.5 |
| 5/1/2015 4:35:36 | 32.48 | 30.48 | 1,179 | 1.74 | 0.78 | 64.5 |
| 5/1/2015 4:35:37 | 32.81 | 30.81 | 1,179 | 1.74 | 0.78 | 64.5 |
| 5/1/2015 4:35:37 | 33.14 | 31.14 | 1,190 | 1.74 | 0.79 | 65.1 |
| 5/1/2015 4:35:37 | 33.46 | 31.46 | 1,179 | 1.73 | 0.79 | 64.5 |
| 5/1/2015 4:35:38 | 33.79 | 31.79 | 1,179 | 1.73 | 0.79 | 64.5 |
| 5/1/2015 4:35:38 | 34.12 | 32.12 | 1,177 | 1.74 | 0.78 | 64.3 |
| 5/1/2015 4:35:38 | 34.45 | 32.45 | 1,177 | 1.74 | 0.78 | 64.3 |
| 5/1/2015 4:35:38 | 34.78 | 32.78 | 1,172 | 1.74 | 0.81 | 64.1 |
| 5/1/2015 4:35:39 | 35.11 | 33.11 | 1,182 | 1.74 | 0.78 | 64.7 |
| 5/1/2015 4:35:39 | 35.43 | 33.43 | 1,182 | 1.74 | 0.78 | 64.7 |
| 5/1/2015 4:35:39 | 35.76 | 33.76 | 1,169 | 1.74 | 0.79 | 63.9 |
| 5/1/2015 4:35:40 | 36.09 | 34.09 | 1,169 | 1.74 | 0.79 | 63.9 |
| 5/1/2015 4:35:40 | 36.42 | 34.42 | 1,177 | 1.72 | 0.79 | 64.3 |
| 5/1/2015 4:35:41 | 36.75 | 34.75 | 1,177 | 1.72 | 0.79 | 64.3 |
| 5/1/2015 4:35:41 | 37.07 | 35.07 | 1,177 | 1.76 | 0.78 | 64.3 |
| 5/1/2015 4:35:41 | 37.40 | 35.40 | 1,187 | 1.73 | 0.79 | 64.9 |
| 5/1/2015 4:35:42 | 37.73 | 35.73 | 1,187 | 1.73 | 0.79 | 64.9 |
| 5/1/2015 4:35:42 | 38.06 | 36.06 | 1,177 | 1.74 | 0.78 | 64.3 |
| 5/1/2015 4:35:42 | 38.39 | 36.39 | 1,177 | 1.74 | 0.78 | 64.3 |
| 5/1/2015 4:35:42 | 38.71 | 36.71 | 1,187 | 1.74 | 0.80 | 64.9 |
| 5/1/2015 4:35:43 | 39.04 | 37.04 | 1,150 | 1.74 | 0.78 | 62.9 |
| 5/1/2015 4:35:43 | 39.37 | 37.37 | 1,150 | 1.74 | 0.78 | 62.9 |
| 5/1/2015 4:35:43 | 39.70 | 37.70 | 1,150 | 1.74 | 0.80 | 62.9 |
| 5/1/2015 4:35:44 | 40.03 | 38.03 | 1,150 | 1.74 | 0.80 | 62.9 |
| 5/1/2015 4:35:44 | 40.35 | 38.35 | 1,172 | 1.73 | 0.78 | 64.1 |
| 5/1/2015 4:35:44 | 40.68 | 38.68 | 1,172 | 1.73 | 0.78 | 64.1 |
| 5/1/2015 4:35:44 | 41.01 | 39.01 | 1,166 | 1.75 | 0.79 | 63.7 |
| 5/1/2015 4:35:45 | 41.34 | 39.34 | 1,165 | 1.77 | 0.80 | 63.7 |
| 5/1/2015 4:35:45 | 41.67 | 39.67 | 1,165 | 1.77 | 0.80 | 63.7 |
| 5/1/2015 4:35:45 | 41.99 | 39.99 | 1,163 | 1.77 | 0.78 | 63.6 |
| 5/1/2015 4:35:46 | 42.32 | 40.32 | 1,163 | 1.77 | 0.78 | 63.6 |
| 5/1/2015 4:35:46 | 42.65 | 40.65 | 1,192 | 1.73 | 0.80 | 65.2 |
| 5/1/2015 4:35:46 | 42.98 | 40.98 | 1,178 | 1.74 | 0.77 | 64.4 |
| 5/1/2015 4:35:47 | 43.31 | 41.31 | 1,178 | 1.74 | 0.77 | 64.4 |
| 5/1/2015 4:35:47 | 43.64 | 41.64 | 1,171 | 1.73 | 0.79 | 64.0 |
| 5/1/2015 4:35:47 | 43.96 | 41.96 | 1,171 | 1.73 | 0.79 | 64.0 |
| 5/1/2015 4:35:47 | 44.29 | 42.29 | 1,155 | 1.75 | 0.79 | 63.1 |
| 5/1/2015 4:35:48 | 44.62 | 42.62 | 1,155 | 1.75 | 0.79 | 63.1 |
| 5/1/2015 4:35:48 | 44.95 | 42.95 | 1,155 | 1.74 | 0.79 | 63.1 |
| 5/1/2015 4:35:48 | 45.28 | 43.28 | 1,162 | 1.74 | 0.80 | 63.5 |
| 5/1/2015 4:35:49 | 45.60 | 43.60 | 1,162 | 1.74 | 0.80 | 63.5 |
| 5/1/2015 4:35:49 | 45.93 | 43.93 | 1,149 | 1.74 | 0.79 | 62.9 |
| 5/1/2015 4:35:49 | 46.26 | 44.26 | 1,149 | 1.74 | 0.79 | 62.9 |
| 5/1/2015 4:35:49 | 46.59 | 44.59 | 1,149 | 1.72 | 0.23 | 62.9 |
| 5/1/2015 4:35:50 | 46.92 | 44.92 | 1,154 | 1.76 | 0.24 | 63.1 |
| 5/1/2015 4:35:50 | 47.24 | 45.24 | 1,154 | 1.76 | 0.24 | 63.1 |
| 5/1/2015 4:35:51 | 47.57 | 45.57 | 1,164 | 1.75 | 0.23 | 63.7 |
| 5/1/2015 4:35:51 | 47.90 | 45.90 | 1,164 | 1.75 | 0.23 | 63.7 |
| 5/1/2015 4:35:51 | 48.23 | 46.23 | 1,181 | 1.73 | 0.23 | 64.6 |
| 5/1/2015 4:35:52 | 48.56 | 46.56 | 1,181 | 1.73 | 0.23 | 64.6 |
| 5/1/2015 4:35:52 | 48.88 | 46.88 | 1,169 | 1.71 | 0.23 | 63.9 |
| 5/1/2015 4:35:52 | 49.21 | 47.21 | 1,192 | 1.74 | 0.24 | 65.2 |
| 5/1/2015 4:35:53 | 49.54 | 47.54 | 1,192 | 1.74 | 0.24 | 65.2 |
| 5/1/2015 4:35:53 | 49.87 | 47.87 | 1,182 | 2.04 | 0.23 | 64.7 |
| 5/1/2015 4:36:19 | 50.20 | 48.20 | 0 | 1.09 | 0.79 | 0.0 |
| 5/1/2015 4:36:20 | 50.53 | 48.53 | 191 | 1.12 | 0.86 | 10.5 |
| 5/1/2015 4:36:21 | 50.85 | 48.85 | 294 | 1.15 | 1.05 | 16.1 |
| 5/1/2015 4:36:25 | 51.18 | 49.18 | 40 | 1.17 | 1.30 | 2.2 |
| 5/1/2015 4:36:27 | 51.51 | 49.51 | 68 | 1.77 | 1.47 | 3.7 |
| 5/1/2015 4:36:28 | 51.84 | 49.84 | 176 | 1.97 | 1.59 | 9.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:36:32 | 52.17 | 50.17 | 3 | 1.12 | 0.98 | 0.2 |
| 5/1/2015 | 4:36:33 | 52.49 | 50.49 | 112 | 1.56 | 1.25 | 6.1 |
| 5/1/2015 | 4:36:33 | 52.82 | 50.82 | 228 | 1.70 | 1.15 | 12.5 |
| 5/1/2015 | 4:36:34 | 53.15 | 51.15 | 381 | 1.73 | 1.12 | 20.8 |
| 5/1/2015 | 4:36:34 | 53.48 | 51.48 | 522 | 1.71 | 0.97 | 28.6 |
| 5/1/2015 | 4:36:35 | 53.81 | 51.81 | 645 | 1.89 | 1.28 | 35.3 |
| 5/1/2015 | 4:36:42 | 54.13 | 52.13 | 50 | 1.19 | 1.83 | 2.7 |
| 5/1/2015 | 4:36:50 | 54.46 | 52.46 | 0 | 1.09 | 1.28 | 0.0 |
| 5/1/2015 | 4:36:51 | 54.79 | 52.79 | 50 | 1.11 | 0.86 | 2.7 |
| 5/1/2015 | 4:36:51 | 55.12 | 53.12 | 140 | 1.03 | 0.60 | 7.7 |
| 5/1/2015 | 4:36:52 | 55.45 | 53.45 | 140 | 1.04 | 0.67 | 7.7 |
| 5/1/2015 | 4:36:53 | 55.77 | 53.77 | 289 | 0.99 | 0.85 | 15.8 |
| 5/1/2015 | 4:36:54 | 56.10 | 54.10 | 394 | 1.19 | 0.90 | 21.5 |
| 5/1/2015 | 4:36:55 | 56.43 | 54.43 | 486 | 1.13 | 1.01 | 26.6 |
| 5/1/2015 | 4:36:56 | 56.76 | 54.76 | 407 | 1.11 | 1.02 | 22.2 |
| 5/1/2015 | 4:36:57 | 57.09 | 55.09 | 372 | 1.19 | 1.14 | 20.3 |
| 5/1/2015 | 4:36:58 | 57.33 | 55.33 | 308 | 1.11 | 1.16 | 16.8 |

## L175 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:33:03

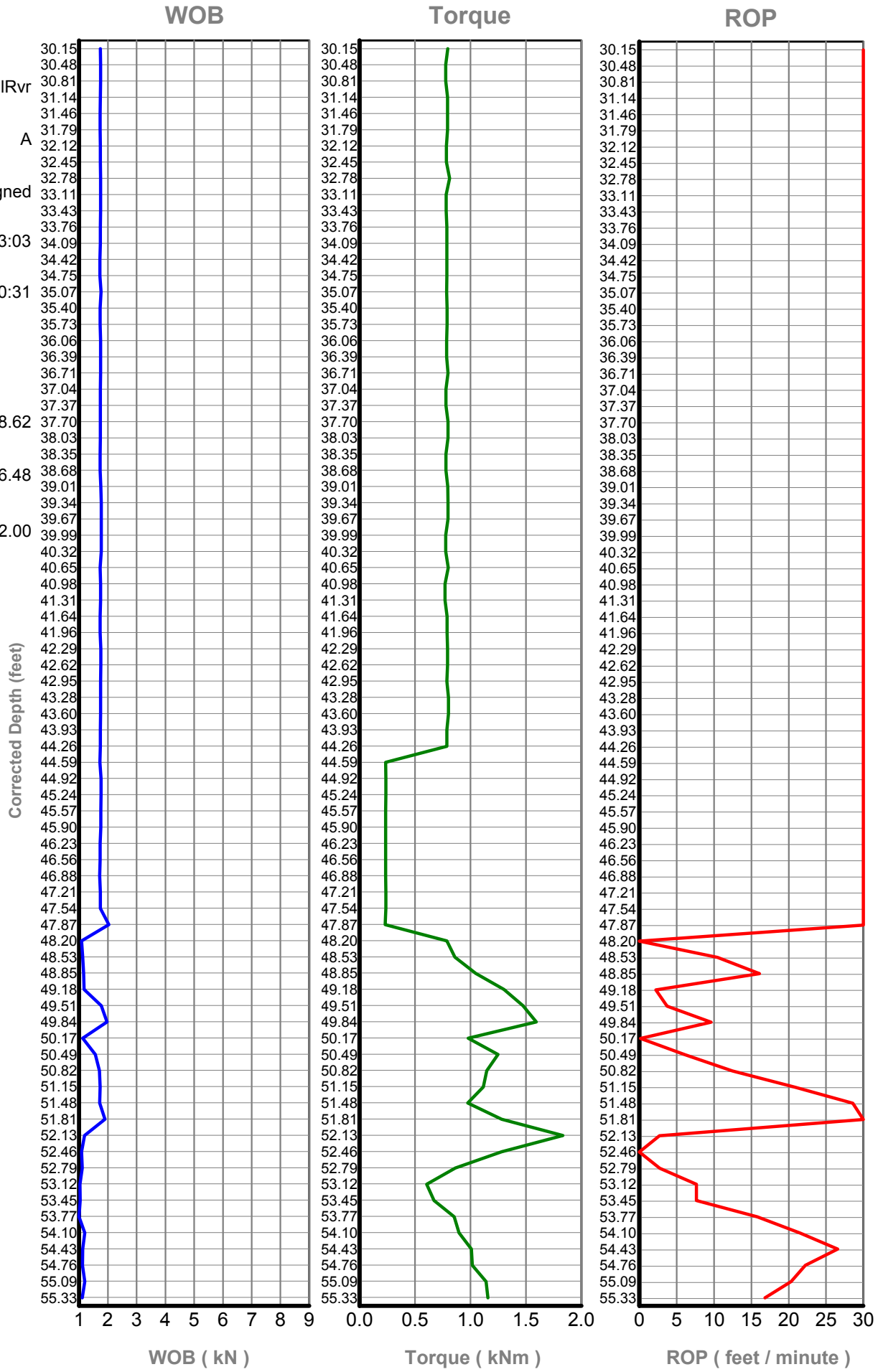
**End Date:**
5/1/2015 4:40:31

**Operator Note:**
'2 2.2 a Auto Complete'

**Northing:**
359,718.62

**Easting:**
242,566.48

**Tide (feet):**
2.00



## Hole: L176 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:35:41 | 32.15 | 30.25 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/1/2015 4:35:42 | 32.48 | 30.58 | 1,112 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 4:35:42 | 32.81 | 30.91 | 1,112 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 4:35:42 | 33.14 | 31.24 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 4:35:43 | 33.46 | 31.56 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 4:35:43 | 33.79 | 31.89 | 1,122 | 0.31 | 0.38 | 61.4 |
| 5/1/2015 4:35:43 | 34.12 | 32.22 | 1,122 | 0.31 | 0.38 | 61.4 |
| 5/1/2015 4:35:44 | 34.45 | 32.55 | 1,122 | 0.31 | 0.38 | 61.4 |
| 5/1/2015 4:35:44 | 34.78 | 32.88 | 1,115 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 4:35:44 | 35.11 | 33.21 | 1,115 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 4:35:44 | 35.43 | 33.53 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:35:45 | 35.76 | 33.86 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/1/2015 4:35:45 | 36.09 | 34.19 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/1/2015 4:35:45 | 36.42 | 34.52 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:35:46 | 36.75 | 34.85 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:35:46 | 37.07 | 35.17 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:35:46 | 37.40 | 35.50 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/1/2015 4:35:47 | 37.73 | 35.83 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/1/2015 4:35:47 | 38.06 | 36.16 | 1,112 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 4:35:47 | 38.39 | 36.49 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:35:48 | 38.71 | 36.81 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 4:35:48 | 39.04 | 37.14 | 1,115 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 4:35:48 | 39.37 | 37.47 | 1,115 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 4:35:48 | 39.70 | 37.80 | 1,127 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 4:35:49 | 40.03 | 38.13 | 1,127 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 4:35:49 | 40.35 | 38.45 | 1,127 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 4:35:49 | 40.68 | 38.78 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 4:35:50 | 41.01 | 39.11 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 4:35:50 | 41.34 | 39.44 | 1,128 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 4:35:50 | 41.67 | 39.77 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:35:51 | 41.99 | 40.09 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:35:51 | 42.32 | 40.42 | 1,127 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 4:35:51 | 42.65 | 40.75 | 1,125 | 0.31 | 0.37 | 61.5 |
| 5/1/2015 4:35:52 | 42.98 | 41.08 | 1,125 | 0.31 | 0.37 | 61.5 |
| 5/1/2015 4:35:52 | 43.31 | 41.41 | 1,125 | 0.31 | 0.37 | 61.5 |
| 5/1/2015 4:35:52 | 43.64 | 41.74 | 1,125 | 0.31 | 0.37 | 61.5 |
| 5/1/2015 4:35:53 | 43.96 | 42.06 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:35:53 | 44.29 | 42.39 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:35:54 | 44.62 | 42.72 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:35:54 | 44.95 | 43.05 | 1,124 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 4:35:54 | 45.28 | 43.38 | 1,124 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 4:35:54 | 45.60 | 43.70 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 4:35:55 | 45.93 | 44.03 | 1,126 | 0.31 | 0.30 | 61.6 |
| 5/1/2015 4:35:55 | 46.26 | 44.36 | 1,126 | 0.31 | 0.30 | 61.6 |
| 5/1/2015 4:35:55 | 46.59 | 44.69 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:35:56 | 46.92 | 45.02 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 4:35:56 | 47.24 | 45.34 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 4:35:56 | 47.57 | 45.67 | 1,140 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 4:35:57 | 47.90 | 46.00 | 1,140 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 4:35:57 | 48.23 | 46.33 | 1,111 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 4:35:57 | 48.56 | 46.66 | 1,111 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 4:35:57 | 48.88 | 46.98 | 1,111 | 0.32 | 0.38 | 60.8 |
| 5/1/2015 4:35:58 | 49.21 | 47.31 | 1,138 | 0.33 | 0.39 | 62.2 |
| 5/1/2015 4:35:58 | 49.54 | 47.64 | 1,138 | 0.33 | 0.39 | 62.2 |
| 5/1/2015 4:35:58 | 49.87 | 47.97 | 1,123 | 0.31 | 0.40 | 61.4 |
| 5/1/2015 4:35:59 | 50.20 | 48.30 | 1,098 | 0.31 | 0.40 | 60.0 |
| 5/1/2015 4:35:59 | 50.53 | 48.63 | 1,098 | 0.31 | 0.40 | 60.0 |
| 5/1/2015 4:35:59 | 50.85 | 48.95 | 1,034 | 0.30 | 0.41 | 56.5 |
| 5/1/2015 4:36:08 | 51.18 | 49.28 | 6 | 2.86 | 0.47 | 0.3 |
| 5/1/2015 4:36:14 | 51.51 | 49.61 | 97 | 3.86 | 0.42 | 5.3 |
| 5/1/2015 4:36:17 | 51.84 | 49.94 | 51 | 5.02 | 0.42 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:36:20 | 52.17 | 50.27 | 87 | 4.13 | 0.46 | 4.7 |
| 5/1/2015 | 4:36:24 | 52.49 | 50.59 | 112 | 3.67 | 0.47 | 6.1 |
| 5/1/2015 | 4:36:27 | 52.82 | 50.92 | 114 | 6.81 | 0.48 | 6.3 |
| 5/1/2015 | 4:36:32 | 53.15 | 51.25 | 80 | 3.28 | 0.46 | 4.4 |
| 5/1/2015 | 4:36:37 | 53.48 | 51.58 | 32 | 4.72 | 0.47 | 1.7 |
| 5/1/2015 | 4:36:42 | 53.81 | 51.91 | 94 | 4.56 | 0.45 | 5.1 |
| 5/1/2015 | 4:36:42 | 54.13 | 52.23 | 163 | 3.03 | 0.43 | 8.9 |
| 5/1/2015 | 4:37:05 | 54.46 | 52.56 | 24 | 2.73 | 0.41 | 1.3 |
| 5/1/2015 | 4:37:06 | 54.79 | 52.89 | 244 | 3.35 | 0.42 | 13.3 |
| 5/1/2015 | 4:37:06 | 55.12 | 53.22 | 341 | 3.33 | 0.42 | 18.7 |
| 5/1/2015 | 4:37:07 | 55.45 | 53.55 | 489 | 4.11 | 0.45 | 26.7 |
| 5/1/2015 | 4:37:08 | 55.77 | 53.87 | 401 | 3.71 | 0.43 | 21.9 |
| 5/1/2015 | 4:37:10 | 56.10 | 54.20 | 292 | 3.61 | 0.45 | 16.0 |
| 5/1/2015 | 4:37:12 | 56.43 | 54.53 | 178 | 3.86 | 0.44 | 9.7 |
| 5/1/2015 | 4:37:12 | 56.76 | 54.86 | 208 | 3.60 | 0.42 | 11.4 |
| 5/1/2015 | 4:37:13 | 57.09 | 55.19 | 274 | 2.36 | 0.40 | 15.0 |
| 5/1/2015 | 4:37:13 | 57.40 | 55.50 | 367 | 2.63 | 0.42 | 20.1 |

## L176 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:34:15

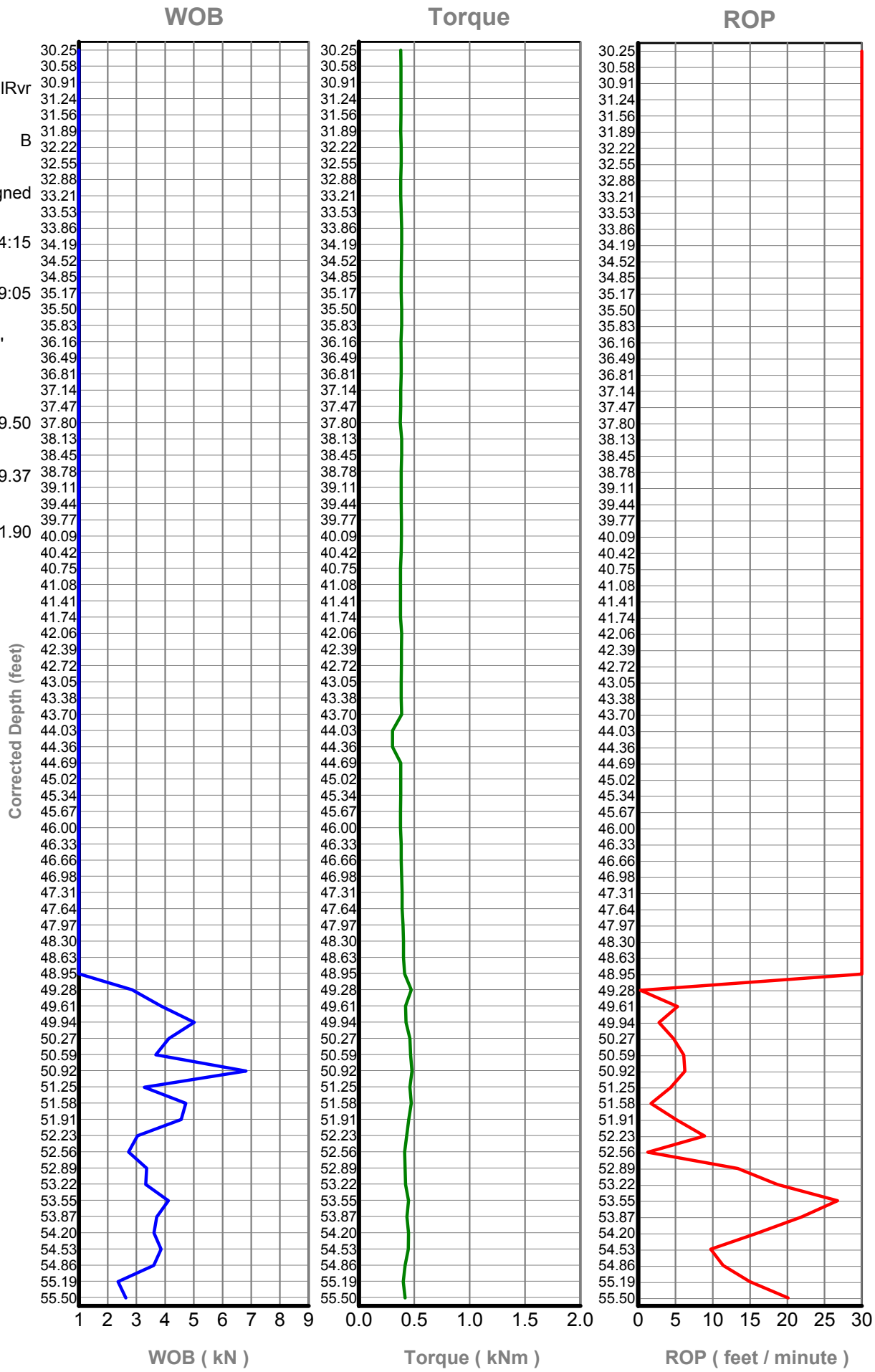
**End Date:**
5/1/2015 4:39:05

**Operator Note:**
'1.9 2.2b Auto Complete'

**Northing:**
359,759.50

**Easting:**
242,629.37

**Tide (feet):**
1.90



## Hole: L177 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:33:38 | 32.15 | 30.15 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 4:33:39 | 32.48 | 30.48 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 4:33:39 | 32.81 | 30.81 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 4:33:39 | 33.14 | 31.14 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 4:33:40 | 33.46 | 31.46 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 4:33:40 | 33.79 | 31.79 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:40 | 34.12 | 32.12 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:41 | 34.45 | 32.45 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:41 | 34.78 | 32.78 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:33:41 | 35.11 | 33.11 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 4:33:42 | 35.43 | 33.43 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 4:33:42 | 35.76 | 33.76 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:33:42 | 36.09 | 34.09 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:43 | 36.42 | 34.42 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:43 | 36.75 | 34.75 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:43 | 37.07 | 35.07 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:33:44 | 37.40 | 35.40 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:33:44 | 37.73 | 35.73 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:33:44 | 38.06 | 36.06 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 4:33:44 | 38.39 | 36.39 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 4:33:45 | 38.71 | 36.71 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 4:33:45 | 39.04 | 37.04 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 4:33:45 | 39.37 | 37.37 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:33:46 | 39.70 | 37.70 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 4:33:46 | 40.03 | 38.03 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 4:33:46 | 40.35 | 38.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 4:33:47 | 40.68 | 38.68 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 4:33:47 | 41.01 | 39.01 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 4:33:47 | 41.34 | 39.34 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 4:33:48 | 41.67 | 39.67 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:48 | 41.99 | 39.99 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:48 | 42.32 | 40.32 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 4:33:49 | 42.65 | 40.65 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:49 | 42.98 | 40.98 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:49 | 43.31 | 41.31 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 4:33:50 | 43.64 | 41.64 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 4:33:51 | 43.96 | 41.96 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 4:33:50 | 44.29 | 42.29 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 4:33:51 | 44.62 | 42.62 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:33:52 | 44.95 | 42.95 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:33:52 | 45.28 | 43.28 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:52 | 45.60 | 43.60 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:33:53 | 45.93 | 43.93 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:33:53 | 46.26 | 44.26 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:33:53 | 46.59 | 44.59 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:33:53 | 46.92 | 44.92 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 4:33:54 | 47.24 | 45.24 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:54 | 47.57 | 45.57 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 4:33:54 | 47.90 | 45.90 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 4:33:55 | 48.23 | 46.23 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 4:33:55 | 48.56 | 46.56 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 4:33:55 | 48.88 | 46.88 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 4:33:56 | 49.21 | 47.21 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 4:33:56 | 49.54 | 47.54 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 4:33:56 | 49.87 | 47.87 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 4:33:57 | 50.20 | 48.20 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 4:33:57 | 50.53 | 48.53 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 4:33:57 | 50.85 | 48.85 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 4:33:58 | 51.18 | 49.18 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 4:33:58 | 51.51 | 49.51 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 4:33:58 | 51.84 | 49.84 | 1,030 | 1.14 | 0.29 | 56.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:33:59 | 52.17 | 50.17 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 | 4:33:59 | 52.49 | 50.49 | 958 | 1.14 | 0.29 | 52.4 |
| 5/1/2015 | 4:34:00 | 52.82 | 50.82 | 906 | 1.14 | 0.29 | 49.5 |
| 5/1/2015 | 4:34:00 | 53.15 | 51.15 | 844 | 1.14 | 0.29 | 46.1 |
| 5/1/2015 | 4:34:01 | 53.48 | 51.48 | 787 | 1.14 | 0.29 | 43.1 |
| 5/1/2015 | 4:34:01 | 53.81 | 51.81 | 753 | 1.14 | 0.29 | 41.2 |
| 5/1/2015 | 4:34:19 | 54.13 | 52.13 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 4:34:20 | 54.46 | 52.46 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 | 4:34:21 | 54.79 | 52.79 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 | 4:34:21 | 55.12 | 53.12 | 247 | 1.14 | 0.29 | 13.5 |
| 5/1/2015 | 4:34:22 | 55.45 | 53.45 | 362 | 1.14 | 0.29 | 19.8 |
| 5/1/2015 | 4:34:24 | 55.77 | 53.77 | 300 | 1.14 | 0.29 | 16.4 |
| 5/1/2015 | 4:34:25 | 56.10 | 54.10 | 233 | 1.14 | 0.29 | 12.8 |
| 5/1/2015 | 4:34:27 | 56.43 | 54.43 | 256 | 1.14 | 0.29 | 14.0 |
| 5/1/2015 | 4:34:27 | 56.76 | 54.76 | 256 | 1.14 | 0.29 | 14.0 |
| 5/1/2015 | 4:34:28 | 57.09 | 55.09 | 441 | 1.14 | 0.29 | 24.1 |
| 5/1/2015 | 4:34:29 | 57.41 | 55.41 | 514 | 1.14 | 0.29 | 28.1 |
| 5/1/2015 | 4:34:29 | 57.66 | 55.66 | 504 | 1.14 | 0.29 | 27.6 |

## L177 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:32:30

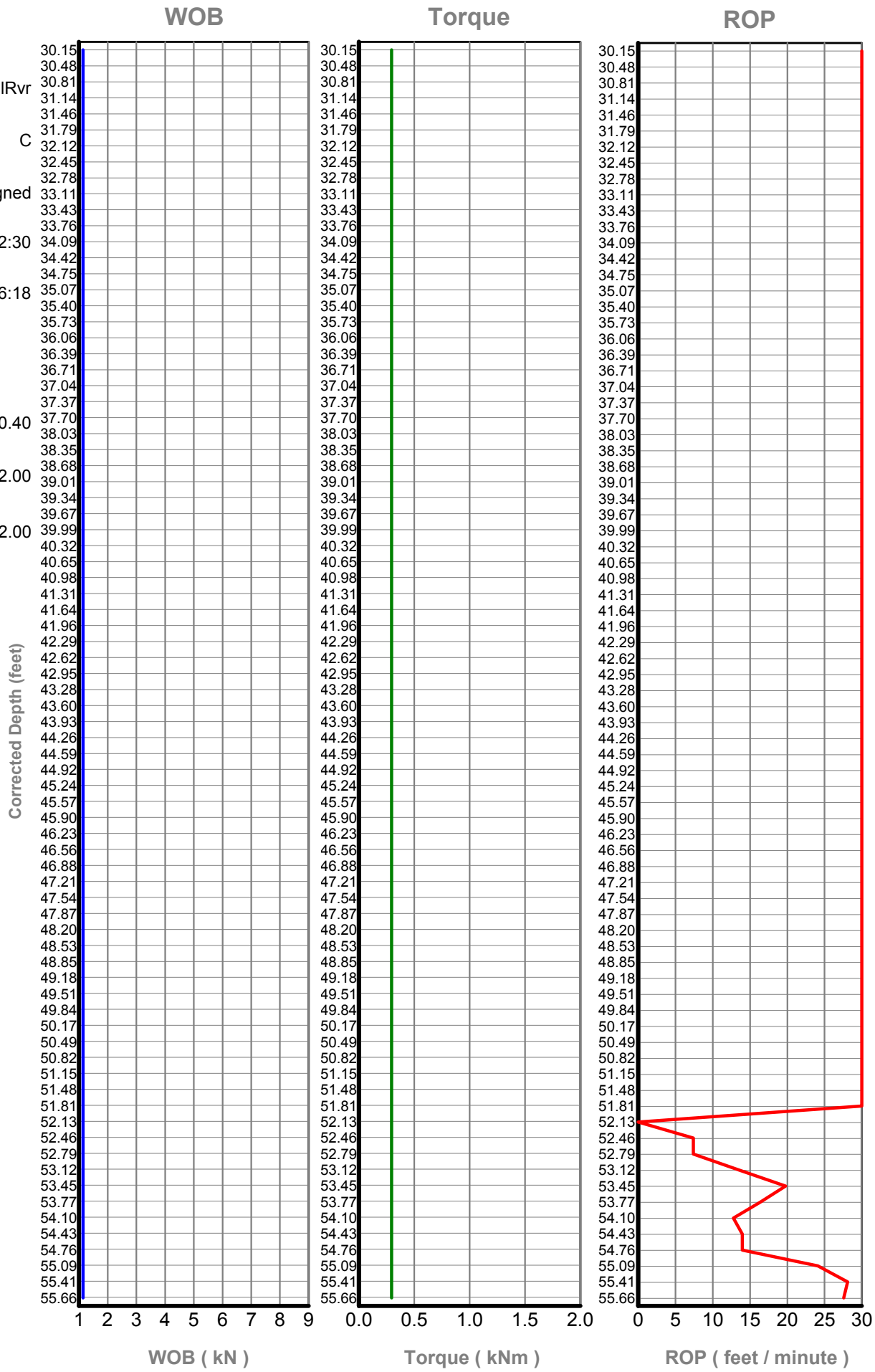
**End Date:**
5/1/2015 4:36:18

**Operator Note:**
'2 2.2 c Auto Complete'

**Northing:**
359,800.40

**Easting:**
242,692.00

**Tide (feet):**
2.00



## Hole: L178 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:23:42 | 36.42 | 30.22 | 1,189 | 1.80 | 0.79 | 65.0 |
| 5/1/2015 0:23:43 | 36.75 | 30.55 | 1,189 | 1.80 | 0.79 | 65.0 |
| 5/1/2015 0:23:43 | 37.07 | 30.87 | 1,200 | 1.77 | 0.80 | 65.6 |
| 5/1/2015 0:23:43 | 37.40 | 31.20 | 1,200 | 1.77 | 0.80 | 65.6 |
| 5/1/2015 0:23:43 | 37.73 | 31.53 | 1,200 | 1.79 | 0.79 | 65.6 |
| 5/1/2015 0:23:44 | 38.06 | 31.86 | 1,200 | 1.78 | 0.80 | 65.6 |
| 5/1/2015 0:23:44 | 38.39 | 32.19 | 1,200 | 1.78 | 0.80 | 65.6 |
| 5/1/2015 0:23:44 | 38.71 | 32.51 | 1,206 | 1.76 | 0.79 | 66.0 |
| 5/1/2015 0:23:45 | 39.04 | 32.84 | 1,206 | 1.76 | 0.79 | 66.0 |
| 5/1/2015 0:23:45 | 39.37 | 33.17 | 1,220 | 1.79 | 0.77 | 66.7 |
| 5/1/2015 0:23:46 | 39.70 | 33.50 | 1,220 | 1.79 | 0.77 | 66.7 |
| 5/1/2015 0:23:46 | 40.03 | 33.83 | 1,205 | 1.81 | 0.79 | 65.9 |
| 5/1/2015 0:23:46 | 40.35 | 34.15 | 1,195 | 1.73 | 0.23 | 65.4 |
| 5/1/2015 0:23:47 | 40.68 | 34.48 | 1,195 | 1.73 | 0.23 | 65.4 |
| 5/1/2015 0:23:47 | 41.01 | 34.81 | 1,206 | 1.77 | 0.24 | 65.9 |
| 5/1/2015 0:23:47 | 41.34 | 35.14 | 1,206 | 1.77 | 0.24 | 65.9 |
| 5/1/2015 0:23:47 | 41.67 | 35.47 | 1,206 | 1.76 | 0.24 | 65.9 |
| 5/1/2015 0:23:48 | 41.99 | 35.79 | 1,206 | 1.76 | 0.24 | 65.9 |
| 5/1/2015 0:23:48 | 42.32 | 36.12 | 1,203 | 1.79 | 0.24 | 65.8 |
| 5/1/2015 0:23:48 | 42.65 | 36.45 | 1,198 | 1.79 | 0.24 | 65.5 |
| 5/1/2015 0:23:49 | 42.98 | 36.78 | 1,198 | 1.79 | 0.24 | 65.5 |
| 5/1/2015 0:23:49 | 43.31 | 37.11 | 1,215 | 1.75 | 0.25 | 66.4 |
| 5/1/2015 0:23:49 | 43.64 | 37.44 | 1,215 | 1.75 | 0.25 | 66.4 |
| 5/1/2015 0:23:49 | 43.96 | 37.76 | 1,212 | 1.81 | 0.24 | 66.3 |
| 5/1/2015 0:23:50 | 44.29 | 38.09 | 1,212 | 1.81 | 0.24 | 66.3 |
| 5/1/2015 0:23:50 | 44.62 | 38.42 | 1,212 | 1.79 | 0.24 | 66.3 |
| 5/1/2015 0:23:50 | 44.95 | 38.75 | 1,212 | 1.79 | 0.24 | 66.3 |
| 5/1/2015 0:23:50 | 45.28 | 39.08 | 1,204 | 1.76 | 0.24 | 65.9 |
| 5/1/2015 0:23:51 | 45.60 | 39.40 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 0:23:51 | 45.93 | 39.73 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 0:23:51 | 46.26 | 40.06 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 0:23:52 | 46.59 | 40.39 | 1,194 | 1.81 | 0.24 | 65.3 |
| 5/1/2015 0:23:52 | 46.92 | 40.72 | 1,200 | 1.79 | 0.24 | 65.6 |
| 5/1/2015 0:23:52 | 47.24 | 41.04 | 1,200 | 1.79 | 0.24 | 65.6 |
| 5/1/2015 0:23:52 | 47.57 | 41.37 | 1,193 | 1.79 | 0.24 | 65.2 |
| 5/1/2015 0:23:53 | 47.90 | 41.70 | 1,193 | 1.79 | 0.24 | 65.2 |
| 5/1/2015 0:23:53 | 48.23 | 42.03 | 1,193 | 1.79 | 0.24 | 65.2 |
| 5/1/2015 0:23:53 | 48.56 | 42.36 | 1,200 | 1.78 | 0.24 | 65.6 |
| 5/1/2015 0:23:54 | 48.88 | 42.68 | 1,200 | 1.78 | 0.24 | 65.6 |
| 5/1/2015 0:23:54 | 49.21 | 43.01 | 1,214 | 1.79 | 0.24 | 66.4 |
| 5/1/2015 0:23:54 | 49.54 | 43.34 | 1,214 | 1.79 | 0.24 | 66.4 |
| 5/1/2015 0:23:54 | 49.87 | 43.67 | 1,195 | 1.79 | 0.24 | 65.4 |
| 5/1/2015 0:23:55 | 50.20 | 44.00 | 1,208 | 1.78 | 0.24 | 66.1 |
| 5/1/2015 0:23:55 | 50.53 | 44.33 | 1,208 | 1.78 | 0.24 | 66.1 |
| 5/1/2015 0:23:55 | 50.85 | 44.65 | 1,203 | 1.79 | 0.24 | 65.8 |
| 5/1/2015 0:23:56 | 51.18 | 44.98 | 1,203 | 1.79 | 0.24 | 65.8 |
| 5/1/2015 0:23:56 | 51.51 | 45.31 | 1,203 | 1.53 | 0.25 | 65.8 |
| 5/1/2015 0:23:57 | 51.84 | 45.64 | 1,203 | 1.53 | 0.25 | 65.8 |
| 5/1/2015 0:23:57 | 52.17 | 45.97 | 1,203 | 1.77 | 0.24 | 65.8 |
| 5/1/2015 0:23:57 | 52.49 | 46.29 | 1,213 | 1.79 | 0.24 | 66.3 |
| 5/1/2015 0:23:58 | 52.82 | 46.62 | 1,213 | 1.79 | 0.24 | 66.3 |
| 5/1/2015 0:23:58 | 53.15 | 46.95 | 1,197 | 1.78 | 0.24 | 65.5 |
| 5/1/2015 0:23:58 | 53.48 | 47.28 | 1,197 | 1.78 | 0.24 | 65.5 |
| 5/1/2015 0:23:58 | 53.81 | 47.61 | 1,207 | 1.79 | 0.24 | 66.0 |
| 5/1/2015 0:23:59 | 54.13 | 47.93 | 1,207 | 1.79 | 0.24 | 66.0 |
| 5/1/2015 0:23:59 | 54.46 | 48.26 | 1,190 | 1.80 | 0.24 | 65.1 |
| 5/1/2015 0:23:59 | 54.79 | 48.59 | 1,200 | 1.79 | 0.24 | 65.6 |
| 5/1/2015 0:24:00 | 55.12 | 48.92 | 1,200 | 1.79 | 0.24 | 65.6 |
| 5/1/2015 0:24:00 | 55.45 | 49.25 | 1,187 | 1.78 | 0.24 | 64.9 |
| 5/1/2015 0:24:00 | 55.77 | 49.57 | 1,187 | 1.78 | 0.24 | 64.9 |
| 5/1/2015 0:24:15 | 56.10 | 49.90 | 47 | 1.17 | 0.97 | 2.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:24:16 | 56.43 | 50.23 | 187 | 1.12 | 1.60 | 10.2 |
| 5/1/2015 | 0:24:17 | 56.76 | 50.56 | 306 | 1.18 | 1.06 | 16.7 |
| 5/1/2015 | 0:24:19 | 57.09 | 50.89 | 248 | 1.20 | 1.21 | 13.6 |
| 5/1/2015 | 0:24:20 | 57.41 | 51.21 | 280 | 1.20 | 0.90 | 15.3 |
| 5/1/2015 | 0:24:23 | 57.74 | 51.54 | 102 | 1.21 | 1.19 | 5.6 |
| 5/1/2015 | 0:24:28 | 58.07 | 51.87 | 26 | 0.98 | 1.34 | 1.4 |
| 5/1/2015 | 0:24:29 | 58.40 | 52.20 | 176 | 1.03 | 0.98 | 9.6 |
| 5/1/2015 | 0:24:30 | 58.73 | 52.53 | 315 | 1.10 | 1.10 | 17.2 |
| 5/1/2015 | 0:24:31 | 59.06 | 52.86 | 343 | 1.04 | 1.03 | 18.8 |
| 5/1/2015 | 0:24:32 | 59.38 | 53.18 | 343 | 1.09 | 1.06 | 18.7 |
| 5/1/2015 | 0:24:33 | 59.71 | 53.51 | 369 | 1.10 | 0.81 | 20.2 |
| 5/1/2015 | 0:24:33 | 60.04 | 53.84 | 386 | 1.10 | 1.07 | 21.1 |
| 5/1/2015 | 0:24:34 | 60.37 | 54.17 | 392 | 1.98 | 1.34 | 21.4 |
| 5/1/2015 | 0:24:34 | 60.70 | 54.50 | 462 | 1.89 | 0.88 | 25.3 |
| 5/1/2015 | 0:24:37 | 61.02 | 54.82 | 253 | 1.15 | 1.06 | 13.8 |
| 5/1/2015 | 0:24:38 | 61.35 | 55.15 | 145 | 1.23 | 1.37 | 7.9 |
| 5/1/2015 | 0:24:38 | 61.46 | 55.26 | 145 | 1.23 | 1.37 | 7.9 |

## L178 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:21:19

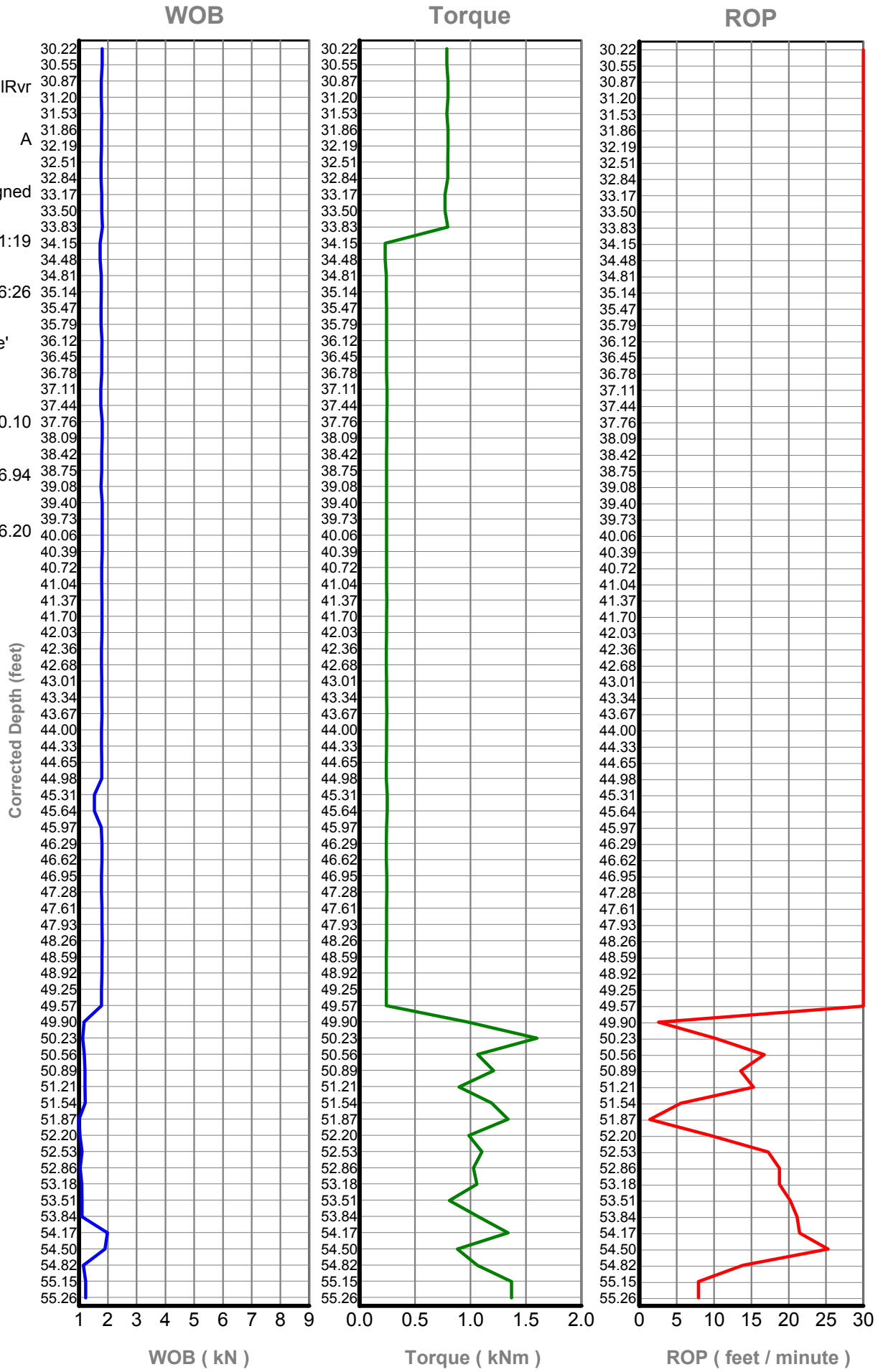
**End Date:**
5/1/2015 0:26:26

**Operator Note:**
'6.2 6.3 a Auto Complete'

**Northing:**
359,850.10

**Easting:**
242,756.94

**Tide (feet):**
6.20



## Hole: L179 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:22:46 | 36.42 | 30.32 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 0:22:46 | 36.75 | 30.65 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:22:47 | 37.07 | 30.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:22:47 | 37.40 | 31.30 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 0:22:47 | 37.73 | 31.63 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:22:48 | 38.06 | 31.96 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:22:48 | 38.39 | 32.29 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:22:49 | 38.71 | 32.61 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:22:49 | 39.04 | 32.94 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:24:24 | 39.37 | 33.27 | 1,070 | 0.34 | 0.38 | 58.5 |
| 5/1/2015 0:24:24 | 39.70 | 33.60 | 1,052 | 0.34 | 0.38 | 57.5 |
| 5/1/2015 0:24:25 | 40.03 | 33.93 | 1,052 | 0.34 | 0.39 | 57.5 |
| 5/1/2015 0:24:25 | 40.35 | 34.25 | 1,052 | 0.34 | 0.39 | 57.5 |
| 5/1/2015 0:24:25 | 40.68 | 34.58 | 1,068 | 0.33 | 0.39 | 58.4 |
| 5/1/2015 0:24:26 | 41.01 | 34.91 | 1,068 | 0.33 | 0.39 | 58.4 |
| 5/1/2015 0:24:26 | 41.34 | 35.24 | 1,061 | 0.33 | 0.38 | 58.0 |
| 5/1/2015 0:24:26 | 41.67 | 35.57 | 1,038 | 0.33 | 0.39 | 56.8 |
| 5/1/2015 0:24:27 | 41.99 | 35.89 | 1,038 | 0.33 | 0.39 | 56.8 |
| 5/1/2015 0:24:27 | 42.32 | 36.22 | 1,044 | 0.33 | 0.38 | 57.1 |
| 5/1/2015 0:24:27 | 42.65 | 36.55 | 1,044 | 0.33 | 0.38 | 57.1 |
| 5/1/2015 0:24:28 | 42.98 | 36.88 | 1,044 | 0.33 | 0.38 | 57.1 |
| 5/1/2015 0:24:28 | 43.31 | 37.21 | 1,067 | 0.34 | 0.38 | 58.4 |
| 5/1/2015 0:24:28 | 43.64 | 37.54 | 1,074 | 0.34 | 0.39 | 58.7 |
| 5/1/2015 0:24:29 | 43.96 | 37.86 | 1,074 | 0.34 | 0.39 | 58.7 |
| 5/1/2015 0:24:29 | 44.29 | 38.19 | 1,053 | 0.33 | 0.38 | 57.6 |
| 5/1/2015 0:24:29 | 44.62 | 38.52 | 1,053 | 0.33 | 0.38 | 57.6 |
| 5/1/2015 0:24:29 | 44.95 | 38.85 | 1,053 | 0.34 | 0.38 | 57.6 |
| 5/1/2015 0:24:30 | 45.28 | 39.18 | 1,088 | 0.34 | 0.39 | 59.5 |
| 5/1/2015 0:24:30 | 45.60 | 39.50 | 1,088 | 0.34 | 0.39 | 59.5 |
| 5/1/2015 0:24:30 | 45.93 | 39.83 | 1,062 | 0.34 | 0.38 | 58.0 |
| 5/1/2015 0:24:31 | 46.26 | 40.16 | 1,062 | 0.34 | 0.38 | 58.0 |
| 5/1/2015 0:24:31 | 46.59 | 40.49 | 1,062 | 0.34 | 0.38 | 58.0 |
| 5/1/2015 0:24:31 | 46.92 | 40.82 | 1,065 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 0:24:32 | 47.24 | 41.14 | 1,058 | 0.34 | 0.38 | 57.8 |
| 5/1/2015 0:24:33 | 47.57 | 41.47 | 1,058 | 0.34 | 0.38 | 57.8 |
| 5/1/2015 0:24:32 | 47.90 | 41.80 | 1,055 | 0.34 | 0.38 | 57.7 |
| 5/1/2015 0:24:33 | 48.23 | 42.13 | 1,055 | 0.34 | 0.38 | 57.7 |
| 5/1/2015 0:24:33 | 48.56 | 42.46 | 1,056 | 0.34 | 0.38 | 57.8 |
| 5/1/2015 0:24:34 | 48.88 | 42.78 | 1,077 | 0.36 | 0.38 | 58.9 |
| 5/1/2015 0:24:34 | 49.21 | 43.11 | 1,077 | 0.36 | 0.38 | 58.9 |
| 5/1/2015 0:24:34 | 49.54 | 43.44 | 1,065 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 0:24:35 | 49.87 | 43.77 | 1,065 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 0:24:35 | 50.20 | 44.10 | 1,065 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 0:24:35 | 50.53 | 44.43 | 1,064 | 0.34 | 0.38 | 58.2 |
| 5/1/2015 0:24:36 | 50.85 | 44.75 | 1,097 | 0.34 | 0.39 | 60.0 |
| 5/1/2015 0:24:36 | 51.18 | 45.08 | 1,097 | 0.34 | 0.39 | 60.0 |
| 5/1/2015 0:24:36 | 51.51 | 45.41 | 1,097 | 0.34 | 0.38 | 60.0 |
| 5/1/2015 0:24:37 | 51.84 | 45.74 | 1,097 | 0.34 | 0.38 | 60.0 |
| 5/1/2015 0:24:37 | 52.17 | 46.07 | 1,074 | 0.34 | 0.38 | 58.8 |
| 5/1/2015 0:24:37 | 52.49 | 46.39 | 1,074 | 0.34 | 0.38 | 58.8 |
| 5/1/2015 0:24:38 | 52.82 | 46.72 | 1,074 | 0.34 | 0.38 | 58.8 |
| 5/1/2015 0:24:38 | 53.15 | 47.05 | 1,090 | 0.34 | 0.38 | 59.6 |
| 5/1/2015 0:24:38 | 53.48 | 47.38 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/1/2015 0:24:39 | 53.81 | 47.71 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/1/2015 0:24:39 | 54.13 | 48.03 | 1,055 | 0.33 | 0.39 | 57.7 |
| 5/1/2015 0:24:39 | 54.46 | 48.36 | 1,036 | 0.34 | 0.39 | 56.6 |
| 5/1/2015 0:24:40 | 54.79 | 48.69 | 1,036 | 0.34 | 0.39 | 56.6 |
| 5/1/2015 0:24:40 | 55.12 | 49.02 | 1,071 | 0.33 | 0.39 | 58.6 |
| 5/1/2015 0:24:40 | 55.45 | 49.35 | 1,071 | 0.34 | 0.39 | 58.6 |
| 5/1/2015 0:24:41 | 55.77 | 49.67 | 1,071 | 0.34 | 0.39 | 58.6 |
| 5/1/2015 0:24:41 | 56.10 | 50.00 | 1,053 | 0.33 | 0.40 | 57.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:24:45 | 56.43 | 50.33 | 87 | 4.28 | 0.43 | 4.8 |
| 5/1/2015 | 0:24:46 | 56.76 | 50.66 | 92 | 6.29 | 0.48 | 5.1 |
| 5/1/2015 | 0:24:49 | 57.09 | 50.99 | 74 | 4.15 | 0.43 | 4.0 |
| 5/1/2015 | 0:24:50 | 57.41 | 51.31 | 117 | 4.05 | 0.44 | 6.4 |
| 5/1/2015 | 0:25:00 | 57.74 | 51.64 | 21 | 4.07 | 0.47 | 1.1 |
| 5/1/2015 | 0:25:02 | 58.07 | 51.97 | 142 | 4.00 | 0.46 | 7.7 |
| 5/1/2015 | 0:25:03 | 58.40 | 52.30 | 214 | 4.55 | 0.46 | 11.7 |
| 5/1/2015 | 0:25:06 | 58.73 | 52.63 | 191 | 3.73 | 0.44 | 10.4 |
| 5/1/2015 | 0:25:10 | 59.06 | 52.96 | 15 | 3.83 | 0.45 | 0.8 |
| 5/1/2015 | 0:25:11 | 59.38 | 53.28 | 149 | 3.55 | 0.44 | 8.2 |
| 5/1/2015 | 0:25:13 | 59.71 | 53.61 | 280 | 3.54 | 0.46 | 15.3 |
| 5/1/2015 | 0:25:19 | 60.04 | 53.94 | 60 | 3.12 | 0.46 | 3.3 |
| 5/1/2015 | 0:25:25 | 60.37 | 54.27 | 54 | 3.28 | 0.47 | 3.0 |
| 5/1/2015 | 0:25:02 | 60.50 | 54.40 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 0:25:33 | 60.70 | 54.60 | 40 | 3.29 | 0.47 | 2.2 |
| 5/1/2015 | 0:25:39 | 60.92 | 54.82 | 46 | 3.08 | 0.48 | 2.5 |

## L179 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:22:42

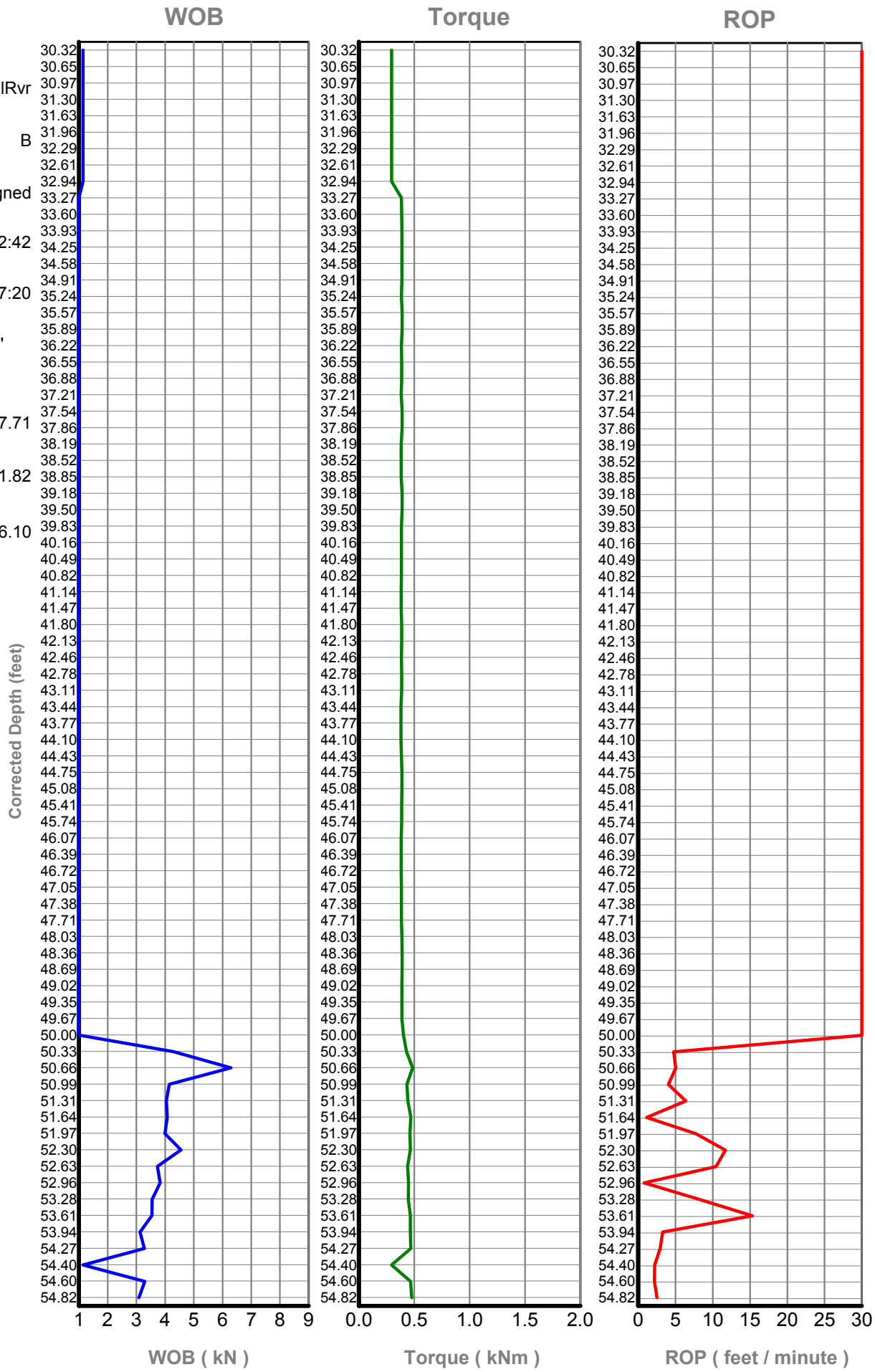
**End Date:**
5/1/2015 0:27:20

**Operator Note:**
'6.1 6.3b Auto Complete'

**Northing:**
359,887.71

**Easting:**
242,821.82

**Tide (feet):**
6.10



## Hole: L18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:14:35 | 33.79 | 30.29 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:36 | 34.12 | 30.62 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:36 | 34.45 | 30.95 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:36 | 34.78 | 31.28 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:37 | 35.11 | 31.61 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:37 | 35.43 | 31.93 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 8:14:37 | 35.76 | 32.26 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 8:14:38 | 36.09 | 32.59 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 8:14:38 | 36.42 | 32.92 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 8:14:38 | 36.75 | 33.25 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:14:39 | 37.07 | 33.57 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:14:39 | 37.40 | 33.90 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 8:14:39 | 37.73 | 34.23 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 8:14:39 | 38.06 | 34.56 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 8:14:40 | 38.39 | 34.89 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 8:14:40 | 38.71 | 35.21 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 8:14:41 | 39.04 | 35.54 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 8:14:41 | 39.37 | 35.87 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:42 | 39.70 | 36.20 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:42 | 40.03 | 36.53 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:14:42 | 40.35 | 36.85 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:43 | 40.68 | 37.18 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:14:43 | 41.01 | 37.51 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:43 | 41.34 | 37.84 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:44 | 41.67 | 38.17 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:44 | 41.99 | 38.49 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 8:14:44 | 42.32 | 38.82 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:45 | 42.65 | 39.15 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:45 | 42.98 | 39.48 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:45 | 43.31 | 39.81 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:45 | 43.64 | 40.14 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 8:14:46 | 43.96 | 40.46 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:14:46 | 44.29 | 40.79 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:14:46 | 44.62 | 41.12 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:47 | 44.95 | 41.45 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:47 | 45.28 | 41.78 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:47 | 45.60 | 42.10 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 8:14:48 | 45.93 | 42.43 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:48 | 46.26 | 42.76 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 8:14:48 | 46.59 | 43.09 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:49 | 46.92 | 43.42 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:49 | 47.24 | 43.74 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:49 | 47.57 | 44.07 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:50 | 47.90 | 44.40 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:50 | 48.23 | 44.73 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:14:50 | 48.56 | 45.06 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:51 | 48.88 | 45.38 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:52 | 49.21 | 45.71 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:51 | 49.54 | 46.04 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:14:52 | 49.87 | 46.37 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:52 | 50.20 | 46.70 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:14:53 | 50.53 | 47.03 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:14:53 | 50.85 | 47.35 | 963 | 1.14 | 0.29 | 52.7 |
| 5/1/2015 8:14:54 | 51.18 | 47.68 | 923 | 1.14 | 0.29 | 50.5 |
| 5/1/2015 8:15:09 | 51.51 | 48.01 | 21 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 8:15:09 | 51.84 | 48.34 | 80 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 8:15:11 | 52.17 | 48.67 | 218 | 1.14 | 0.29 | 11.9 |
| 5/1/2015 8:15:11 | 52.49 | 48.99 | 292 | 1.14 | 0.29 | 16.0 |
| 5/1/2015 8:15:12 | 52.82 | 49.32 | 392 | 1.14 | 0.29 | 21.4 |
| 5/1/2015 8:15:13 | 53.15 | 49.65 | 449 | 1.14 | 0.29 | 24.6 |
| 5/1/2015 8:15:14 | 53.48 | 49.98 | 464 | 1.14 | 0.29 | 25.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:15:54 | 53.81 | 50.31 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 8:15:56 | 54.13 | 50.63 | 77 | 1.14 | 0.29 | 4.2 |
| 5/1/2015 | 8:15:58 | 54.46 | 50.96 | 164 | 1.14 | 0.29 | 9.0 |
| 5/1/2015 | 8:17:34 | 54.79 | 51.29 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 8:17:36 | 55.12 | 51.62 | 160 | 1.14 | 0.29 | 8.7 |
| 5/1/2015 | 8:17:44 | 55.45 | 51.95 | 14 | 1.14 | 0.29 | 0.8 |
| 5/1/2015 | 8:17:47 | 55.77 | 52.27 | 168 | 1.14 | 0.29 | 9.2 |
| 5/1/2015 | 8:17:50 | 56.10 | 52.60 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 8:17:53 | 56.43 | 52.93 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 | 8:18:01 | 56.76 | 53.26 | 46 | 1.14 | 0.29 | 2.5 |
| 5/1/2015 | 8:18:19 | 57.09 | 53.59 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 8:18:25 | 57.41 | 53.91 | 55 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 | 8:18:31 | 57.74 | 54.24 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 8:18:37 | 58.07 | 54.57 | 55 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 | 8:18:39 | 58.14 | 54.64 | 47 | 1.14 | 0.29 | 2.5 |

## L18 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:13:26

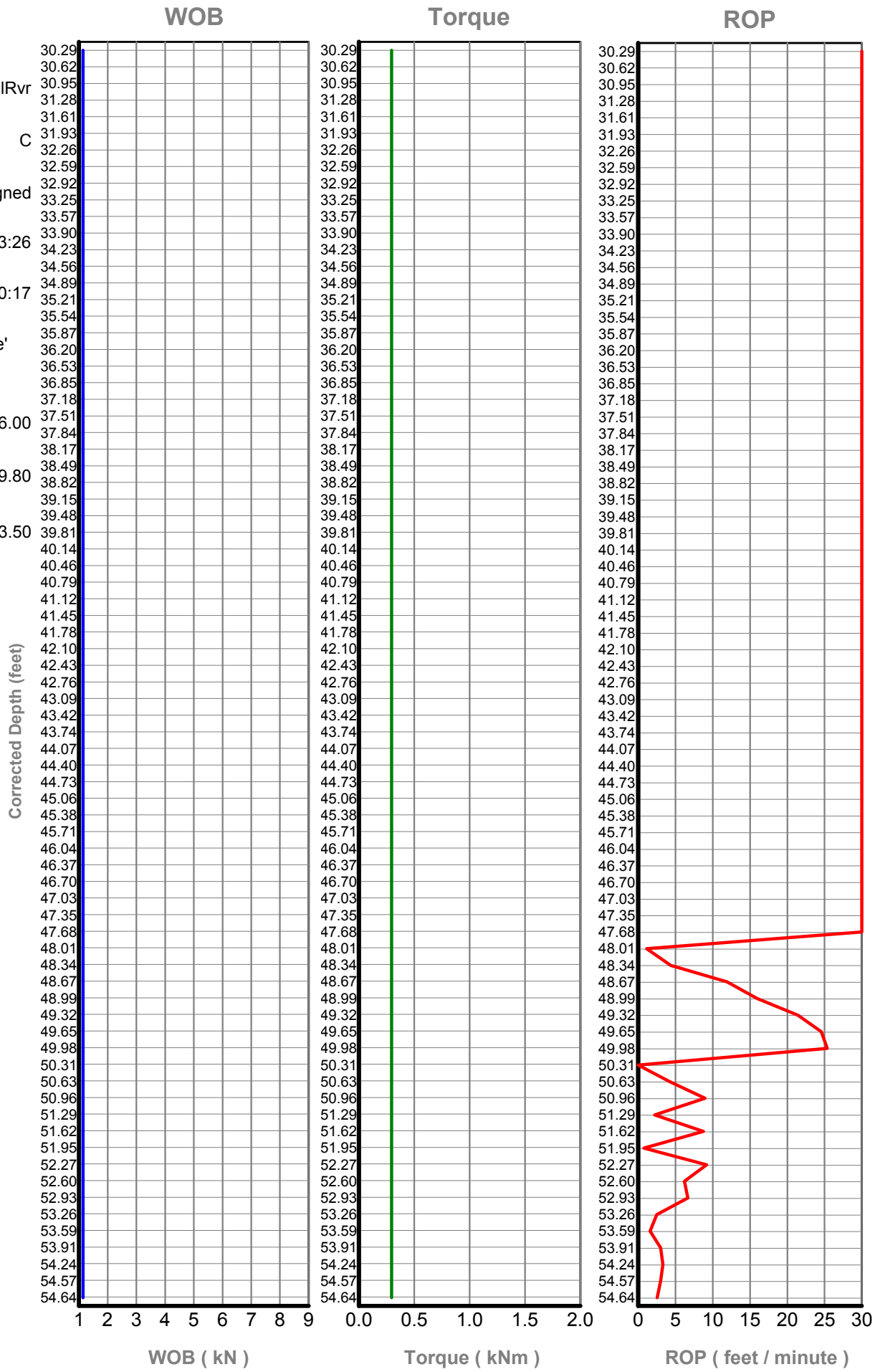
**End Date:**
5/1/2015 8:20:17

**Operator Note:**
'3.5 3,0 c Auto Complete'

**Northing:**
360,136.00

**Easting:**
242,229.80

**Tide (feet):**
3.50



## Hole: L180 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:32:55 | 36.09 | 30.09 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:32:56 | 36.42 | 30.42 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 0:32:56 | 36.75 | 30.75 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:32:56 | 37.07 | 31.07 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:32:57 | 37.40 | 31.40 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 0:32:57 | 37.73 | 31.73 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:57 | 38.06 | 32.06 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:58 | 38.39 | 32.39 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:58 | 38.71 | 32.71 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:58 | 39.04 | 33.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:59 | 39.37 | 33.37 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:59 | 39.70 | 33.70 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:32:59 | 40.03 | 34.03 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:00 | 40.35 | 34.35 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:00 | 40.68 | 34.68 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:00 | 41.01 | 35.01 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:01 | 41.34 | 35.34 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:01 | 41.67 | 35.67 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:01 | 41.99 | 35.99 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:02 | 42.32 | 36.32 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:02 | 42.65 | 36.65 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:03 | 42.98 | 36.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:33:03 | 43.31 | 37.31 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:33:03 | 43.64 | 37.64 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:04 | 43.96 | 37.96 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:04 | 44.29 | 38.29 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:04 | 44.62 | 38.62 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:05 | 44.95 | 38.95 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:05 | 45.28 | 39.28 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:05 | 45.60 | 39.60 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:06 | 45.93 | 39.93 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:06 | 46.26 | 40.26 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:06 | 46.59 | 40.59 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:07 | 46.92 | 40.92 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 0:33:07 | 47.24 | 41.24 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 0:33:07 | 47.57 | 41.57 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:08 | 47.90 | 41.90 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 0:33:08 | 48.23 | 42.23 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 0:33:08 | 48.56 | 42.56 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:09 | 48.88 | 42.88 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 0:33:09 | 49.21 | 43.21 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 0:33:09 | 49.54 | 43.54 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 0:33:10 | 49.87 | 43.87 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 0:33:10 | 50.20 | 44.20 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 0:33:10 | 50.53 | 44.53 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 0:33:11 | 50.85 | 44.85 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:11 | 51.18 | 45.18 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:11 | 51.51 | 45.51 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 0:33:12 | 51.84 | 45.84 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:12 | 52.17 | 46.17 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:12 | 52.49 | 46.49 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:13 | 52.82 | 46.82 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:14 | 53.15 | 47.15 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 0:33:14 | 53.48 | 47.48 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 0:33:14 | 53.81 | 47.81 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 0:33:15 | 54.13 | 48.13 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 0:33:15 | 54.46 | 48.46 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:15 | 54.79 | 48.79 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:16 | 55.12 | 49.12 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:16 | 55.45 | 49.45 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 0:33:16 | 55.77 | 49.77 | 1,039 | 1.14 | 0.29 | 56.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:33:17 | 56.10 | 50.10 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 | 0:33:17 | 56.43 | 50.43 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 | 0:33:17 | 56.76 | 50.76 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 | 0:33:18 | 57.09 | 51.09 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 | 0:33:18 | 57.41 | 51.41 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 | 0:33:41 | 57.74 | 51.74 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 0:33:42 | 58.07 | 52.07 | 147 | 1.14 | 0.29 | 8.0 |
| 5/1/2015 | 0:33:45 | 58.40 | 52.40 | 300 | 1.14 | 0.29 | 16.4 |
| 5/1/2015 | 0:33:50 | 58.73 | 52.73 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 | 0:33:53 | 59.06 | 53.06 | 92 | 1.14 | 0.29 | 5.0 |
| 5/1/2015 | 0:33:56 | 59.38 | 53.38 | 119 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 0:34:02 | 59.71 | 53.71 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 0:34:07 | 60.04 | 54.04 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 0:34:10 | 60.37 | 54.37 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 | 0:34:15 | 60.70 | 54.70 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 0:34:18 | 61.02 | 55.02 | 114 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 0:34:20 | 61.28 | 55.28 | 156 | 1.14 | 0.29 | 8.6 |

## L180 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:31:42

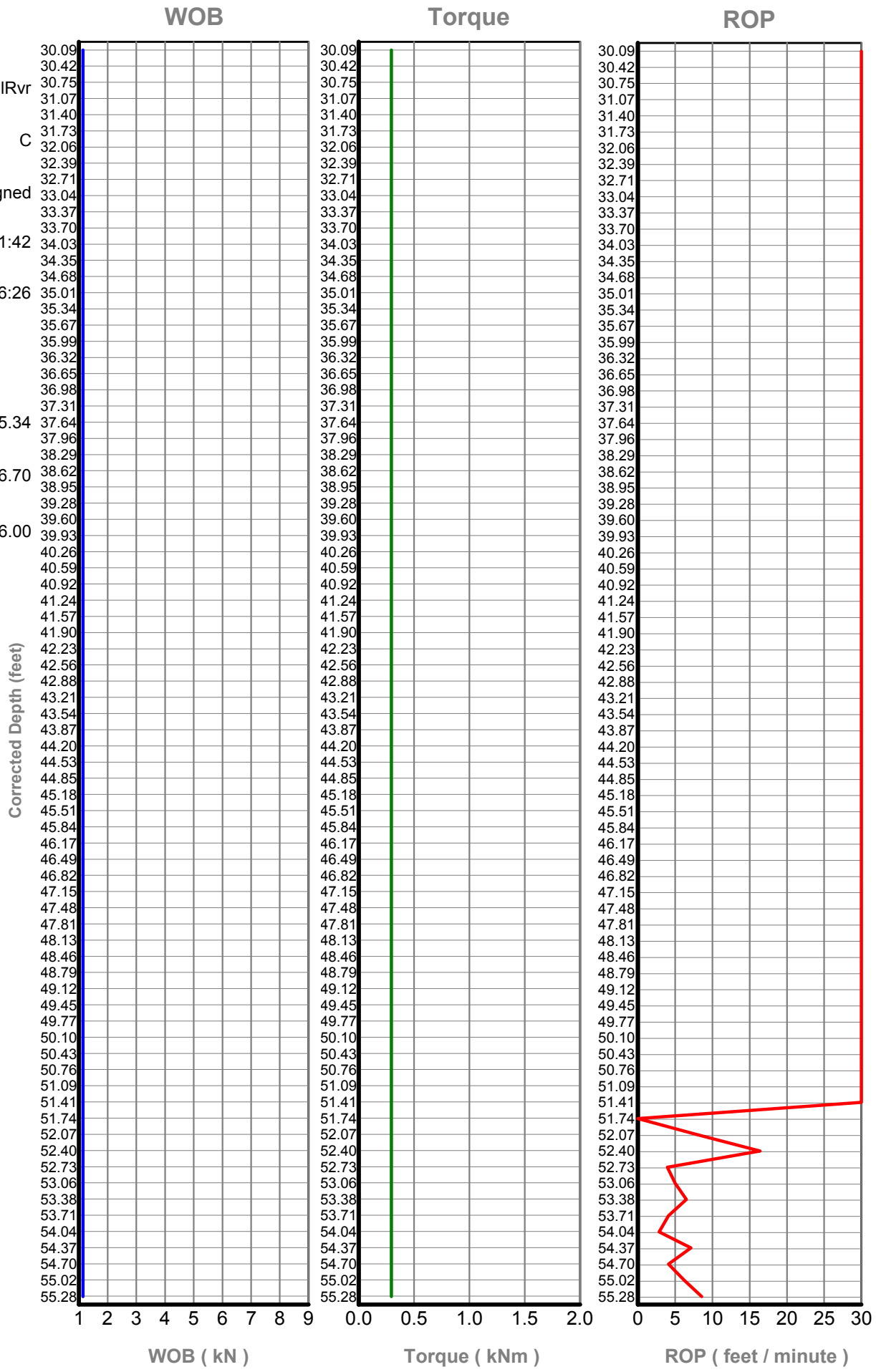
**End Date:**
5/1/2015 0:36:26

**Operator Note:**
'6 6.3 c Auto Complete'

**Northing:**
359,925.34

**Easting:**
242,886.70

**Tide (feet):**
6.00



## Hole: L181 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:46:35 | 36.75 | 30.15 | 1,058 | 1.59 | 0.80 | 57.9 |
| 4/30/2015 23:46:35 | 37.07 | 30.47 | 1,058 | 1.59 | 0.80 | 57.9 |
| 4/30/2015 23:46:35 | 37.40 | 30.80 | 1,082 | 1.59 | 0.80 | 59.2 |
| 4/30/2015 23:46:36 | 37.73 | 31.13 | 1,067 | 1.61 | 0.81 | 58.3 |
| 4/30/2015 23:46:36 | 38.06 | 31.46 | 1,067 | 1.61 | 0.81 | 58.3 |
| 4/30/2015 23:46:37 | 38.39 | 31.79 | 1,100 | 1.61 | 0.81 | 60.1 |
| 4/30/2015 23:46:37 | 38.71 | 32.11 | 1,076 | 1.56 | 0.73 | 58.8 |
| 4/30/2015 23:46:37 | 39.04 | 32.44 | 1,076 | 1.56 | 0.73 | 58.8 |
| 4/30/2015 23:46:38 | 39.37 | 32.77 | 1,076 | 1.61 | 0.82 | 58.8 |
| 4/30/2015 23:46:38 | 39.70 | 33.10 | 1,066 | 1.57 | 0.79 | 58.3 |
| 4/30/2015 23:46:38 | 40.03 | 33.43 | 1,066 | 1.57 | 0.79 | 58.3 |
| 4/30/2015 23:46:39 | 40.35 | 33.75 | 1,066 | 1.60 | 0.30 | 58.3 |
| 4/30/2015 23:46:39 | 40.68 | 34.08 | 1,054 | 1.57 | 0.24 | 57.7 |
| 4/30/2015 23:46:40 | 41.01 | 34.41 | 1,054 | 1.57 | 0.24 | 57.7 |
| 4/30/2015 23:46:40 | 41.34 | 34.74 | 1,064 | 1.58 | 0.24 | 58.2 |
| 4/30/2015 23:46:40 | 41.67 | 35.07 | 1,064 | 1.58 | 0.24 | 58.2 |
| 4/30/2015 23:46:40 | 41.99 | 35.39 | 1,064 | 1.59 | 0.24 | 58.2 |
| 4/30/2015 23:46:41 | 42.32 | 35.72 | 1,058 | 1.59 | 0.24 | 57.8 |
| 4/30/2015 23:46:41 | 42.65 | 36.05 | 1,058 | 1.59 | 0.24 | 57.8 |
| 4/30/2015 23:46:41 | 42.98 | 36.38 | 1,055 | 1.58 | 0.24 | 57.7 |
| 4/30/2015 23:46:42 | 43.31 | 36.71 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:42 | 43.64 | 37.04 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:42 | 43.96 | 37.36 | 1,057 | 1.57 | 0.24 | 57.8 |
| 4/30/2015 23:46:43 | 44.29 | 37.69 | 1,057 | 1.59 | 0.24 | 57.8 |
| 4/30/2015 23:46:43 | 44.62 | 38.02 | 1,057 | 1.59 | 0.24 | 57.8 |
| 4/30/2015 23:46:43 | 44.95 | 38.35 | 1,066 | 1.59 | 0.24 | 58.3 |
| 4/30/2015 23:46:44 | 45.28 | 38.68 | 1,053 | 1.57 | 0.24 | 57.6 |
| 4/30/2015 23:46:44 | 45.60 | 39.00 | 1,053 | 1.57 | 0.24 | 57.6 |
| 4/30/2015 23:46:44 | 45.93 | 39.33 | 1,049 | 1.58 | 0.24 | 57.4 |
| 4/30/2015 23:46:45 | 46.26 | 39.66 | 1,076 | 1.57 | 0.24 | 58.8 |
| 4/30/2015 23:46:45 | 46.59 | 39.99 | 1,076 | 1.57 | 0.24 | 58.8 |
| 4/30/2015 23:46:45 | 46.92 | 40.32 | 1,068 | 1.59 | 0.24 | 58.4 |
| 4/30/2015 23:46:46 | 47.24 | 40.64 | 1,068 | 1.59 | 0.24 | 58.4 |
| 4/30/2015 23:46:46 | 47.57 | 40.97 | 1,061 | 1.57 | 0.24 | 58.0 |
| 4/30/2015 23:46:46 | 47.90 | 41.30 | 1,061 | 1.59 | 0.24 | 58.0 |
| 4/30/2015 23:46:47 | 48.23 | 41.63 | 1,061 | 1.59 | 0.24 | 58.0 |
| 4/30/2015 23:46:47 | 48.56 | 41.96 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:47 | 48.88 | 42.28 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:48 | 49.21 | 42.61 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:48 | 49.54 | 42.94 | 1,064 | 1.58 | 0.22 | 58.2 |
| 4/30/2015 23:46:49 | 49.87 | 43.27 | 1,055 | 1.56 | 0.24 | 57.7 |
| 4/30/2015 23:46:49 | 50.20 | 43.60 | 1,055 | 1.56 | 0.24 | 57.7 |
| 4/30/2015 23:46:49 | 50.53 | 43.93 | 1,058 | 1.59 | 0.24 | 57.9 |
| 4/30/2015 23:46:50 | 50.85 | 44.25 | 1,055 | 1.57 | 0.24 | 57.7 |
| 4/30/2015 23:46:50 | 51.18 | 44.58 | 1,055 | 1.57 | 0.24 | 57.7 |
| 4/30/2015 23:46:50 | 51.51 | 44.91 | 1,058 | 1.61 | 0.24 | 57.9 |
| 4/30/2015 23:46:51 | 51.84 | 45.24 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:51 | 52.17 | 45.57 | 1,055 | 1.59 | 0.24 | 57.7 |
| 4/30/2015 23:46:51 | 52.49 | 45.89 | 1,052 | 1.57 | 0.24 | 57.5 |
| 4/30/2015 23:46:52 | 52.82 | 46.22 | 1,043 | 1.55 | 0.24 | 57.1 |
| 4/30/2015 23:46:52 | 53.15 | 46.55 | 1,043 | 1.55 | 0.24 | 57.1 |
| 4/30/2015 23:46:52 | 53.48 | 46.88 | 1,055 | 1.57 | 0.24 | 57.7 |
| 4/30/2015 23:46:53 | 53.81 | 47.21 | 1,049 | 1.60 | 0.24 | 57.4 |
| 4/30/2015 23:46:53 | 54.13 | 47.53 | 1,049 | 1.60 | 0.24 | 57.4 |
| 4/30/2015 23:46:53 | 54.46 | 47.86 | 1,047 | 1.57 | 0.24 | 57.2 |
| 4/30/2015 23:46:54 | 54.79 | 48.19 | 1,047 | 1.57 | 0.24 | 57.2 |
| 4/30/2015 23:46:54 | 55.12 | 48.52 | 1,047 | 1.60 | 0.24 | 57.2 |
| 4/30/2015 23:46:54 | 55.45 | 48.85 | 1,049 | 1.60 | 0.24 | 57.4 |
| 4/30/2015 23:46:55 | 55.77 | 49.17 | 1,023 | 1.10 | 0.18 | 55.9 |
| 4/30/2015 23:47:11 | 56.10 | 49.50 | 103 | 1.18 | 0.96 | 5.6 |
| 4/30/2015 23:47:15 | 56.43 | 49.83 | 78 | 1.20 | 1.28 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:47:19 | 56.76 | 50.16 | 51 | 1.45 | 1.62 | 2.8 |
| 4/30/2015 | 23:47:20 | 57.09 | 50.49 | 51 | 2.23 | 1.30 | 2.8 |
| 4/30/2015 | 23:47:21 | 57.41 | 50.81 | 186 | 1.95 | 1.85 | 10.2 |
| 4/30/2015 | 23:47:21 | 57.74 | 51.14 | 274 | 1.76 | 1.57 | 15.0 |
| 4/30/2015 | 23:47:23 | 58.07 | 51.47 | 382 | 2.00 | 1.30 | 20.9 |
| 4/30/2015 | 23:47:23 | 58.40 | 51.80 | 429 | 1.25 | 1.75 | 23.4 |
| 4/30/2015 | 23:47:28 | 58.73 | 52.13 | 22 | 1.05 | 1.14 | 1.2 |
| 4/30/2015 | 23:47:29 | 59.06 | 52.46 | 163 | 1.02 | 1.28 | 8.9 |
| 4/30/2015 | 23:47:31 | 59.38 | 52.78 | 319 | 1.24 | 1.70 | 17.4 |
| 4/30/2015 | 23:47:40 | 59.71 | 53.11 | 0 | 1.08 | 1.13 | 0.0 |
| 4/30/2015 | 23:47:42 | 60.04 | 53.44 | 130 | 1.05 | 1.32 | 7.1 |
| 4/30/2015 | 23:47:43 | 60.37 | 53.77 | 246 | 0.97 | 1.72 | 13.4 |
| 4/30/2015 | 23:48:55 | 60.70 | 54.10 | 20 | 0.98 | 0.95 | 1.1 |
| 4/30/2015 | 23:49:03 | 61.02 | 54.42 | 46 | 1.07 | 1.03 | 2.5 |
| 4/30/2015 | 23:49:10 | 61.35 | 54.75 | 58 | 1.02 | 1.10 | 3.2 |
| 4/30/2015 | 23:49:17 | 61.67 | 55.07 | 41 | 1.11 | 1.07 | 2.2 |

## L181 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:44:26

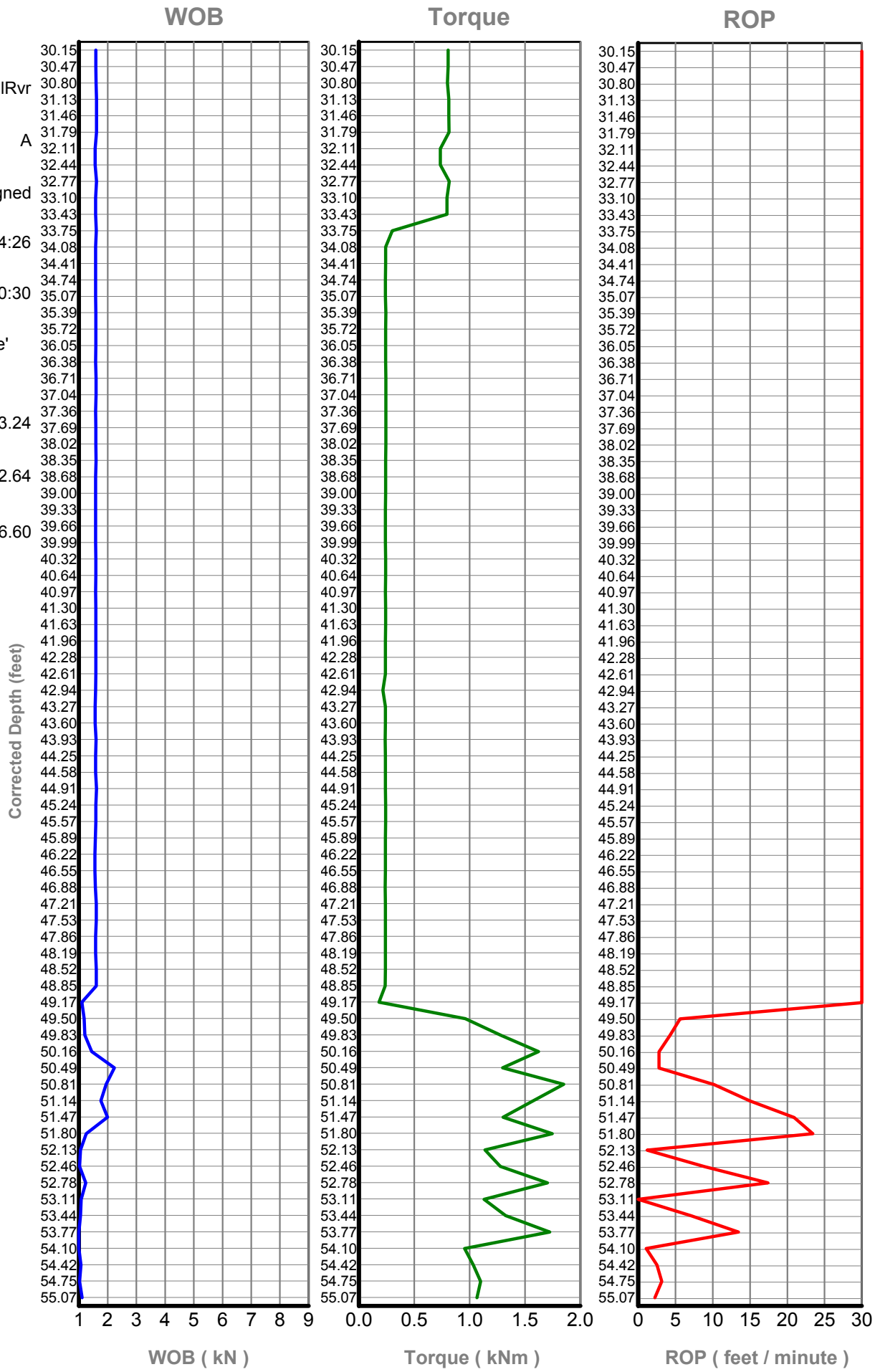
**End Date:**
5/1/2015 0:10:30

**Operator Note:**
'6.6 6.7 a Auto Complete'

**Northing:**
359,963.24

**Easting:**
242,952.64

**Tide (feet):**
6.60



## Hole: L182 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:34:22 | 36.75 | 30.05 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:34:23 | 37.07 | 30.37 | 1,163 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 23:34:23 | 37.40 | 30.70 | 1,163 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 23:34:23 | 37.73 | 31.03 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 23:34:24 | 38.06 | 31.36 | 1,160 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 23:34:24 | 38.39 | 31.69 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:34:24 | 38.71 | 32.01 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:34:24 | 39.04 | 32.34 | 1,169 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:34:25 | 39.37 | 32.67 | 1,172 | 0.31 | 0.37 | 64.1 |
| 4/30/2015 23:34:26 | 39.70 | 33.00 | 1,172 | 0.31 | 0.37 | 64.1 |
| 4/30/2015 23:34:26 | 40.03 | 33.33 | 1,164 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 23:34:26 | 40.35 | 33.65 | 1,164 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 23:34:26 | 40.68 | 33.98 | 1,180 | 0.33 | 0.38 | 64.5 |
| 4/30/2015 23:34:27 | 41.01 | 34.31 | 1,174 | 0.31 | 0.38 | 64.2 |
| 4/30/2015 23:34:27 | 41.34 | 34.64 | 1,174 | 0.31 | 0.38 | 64.2 |
| 4/30/2015 23:34:27 | 41.67 | 34.97 | 1,171 | 0.32 | 0.38 | 64.0 |
| 4/30/2015 23:34:28 | 41.99 | 35.29 | 1,171 | 0.32 | 0.38 | 64.0 |
| 4/30/2015 23:34:28 | 42.32 | 35.62 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 23:34:28 | 42.65 | 35.95 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 23:34:28 | 42.98 | 36.28 | 1,177 | 0.32 | 0.37 | 64.3 |
| 4/30/2015 23:34:29 | 43.31 | 36.61 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:34:29 | 43.64 | 36.94 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 23:34:29 | 43.96 | 37.26 | 1,171 | 0.31 | 0.38 | 64.0 |
| 4/30/2015 23:34:30 | 44.29 | 37.59 | 1,171 | 0.31 | 0.38 | 64.0 |
| 4/30/2015 23:34:30 | 44.62 | 37.92 | 1,169 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 23:34:30 | 44.95 | 38.25 | 1,179 | 0.32 | 0.38 | 64.5 |
| 4/30/2015 23:34:31 | 45.28 | 38.58 | 1,179 | 0.32 | 0.38 | 64.5 |
| 4/30/2015 23:34:31 | 45.60 | 38.90 | 1,164 | 0.31 | 0.38 | 63.7 |
| 4/30/2015 23:34:31 | 45.93 | 39.23 | 1,164 | 0.31 | 0.38 | 63.7 |
| 4/30/2015 23:34:31 | 46.26 | 39.56 | 1,175 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 23:34:32 | 46.59 | 39.89 | 1,175 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 23:34:32 | 46.92 | 40.22 | 1,165 | 0.32 | 0.38 | 63.7 |
| 4/30/2015 23:34:32 | 47.24 | 40.54 | 1,182 | 0.32 | 0.38 | 64.6 |
| 4/30/2015 23:34:33 | 47.57 | 40.87 | 1,182 | 0.32 | 0.38 | 64.6 |
| 4/30/2015 23:34:33 | 47.90 | 41.20 | 1,166 | 0.32 | 0.38 | 63.7 |
| 4/30/2015 23:34:33 | 48.23 | 41.53 | 1,166 | 0.32 | 0.38 | 63.7 |
| 4/30/2015 23:34:33 | 48.56 | 41.86 | 1,189 | 0.31 | 0.37 | 65.0 |
| 4/30/2015 23:34:34 | 48.88 | 42.18 | 1,172 | 0.32 | 0.37 | 64.1 |
| 4/30/2015 23:34:34 | 49.21 | 42.51 | 1,172 | 0.32 | 0.37 | 64.1 |
| 4/30/2015 23:34:34 | 49.54 | 42.84 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 23:34:35 | 49.87 | 43.17 | 1,192 | 0.31 | 0.37 | 65.2 |
| 4/30/2015 23:34:35 | 50.20 | 43.50 | 1,172 | 0.32 | 0.37 | 64.1 |
| 4/30/2015 23:34:36 | 50.53 | 43.83 | 1,172 | 0.32 | 0.37 | 64.1 |
| 4/30/2015 23:34:36 | 50.85 | 44.15 | 1,185 | 0.32 | 0.37 | 64.8 |
| 4/30/2015 23:34:36 | 51.18 | 44.48 | 1,168 | 0.29 | 0.42 | 63.9 |
| 4/30/2015 23:34:43 | 51.51 | 44.81 | 0 | 4.39 | 0.45 | 0.0 |
| 4/30/2015 23:34:50 | 51.84 | 45.14 | 78 | 3.63 | 0.47 | 4.3 |
| 4/30/2015 23:34:55 | 52.17 | 45.47 | 52 | 3.80 | 0.46 | 2.8 |
| 4/30/2015 23:35:03 | 52.49 | 45.79 | 41 | 2.87 | 0.46 | 2.2 |
| 4/30/2015 23:35:11 | 52.82 | 46.12 | 40 | 2.95 | 0.47 | 2.2 |
| 4/30/2015 23:35:19 | 53.08 | 46.38 | 37 | 3.11 | 0.47 | 2.0 |

## L182 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:32:53

**End Date:**
4/30/2015 23:36:52

**Operator Note:**
'6.7 6.7b Auto Complete'

**Northing:**
360,004.80

**Easting:**
243,015.10

**Tide (feet):**
6.70



## Hole: L183 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:45:28 | 36.75 | 30.15 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:29 | 37.07 | 30.47 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:29 | 37.40 | 30.80 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:45:29 | 37.73 | 31.13 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:45:30 | 38.06 | 31.46 | 1,052 | 1.14 | 0.29 | 57.5 |
| 4/30/2015 23:45:30 | 38.39 | 31.79 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:45:30 | 38.71 | 32.11 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:45:30 | 39.04 | 32.44 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 23:45:31 | 39.37 | 32.77 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 23:45:31 | 39.70 | 33.10 | 1,067 | 1.14 | 0.29 | 58.3 |
| 4/30/2015 23:45:31 | 40.03 | 33.43 | 1,074 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:32 | 40.35 | 33.75 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 23:45:32 | 40.68 | 34.08 | 1,086 | 1.14 | 0.29 | 59.4 |
| 4/30/2015 23:45:32 | 41.01 | 34.41 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:45:33 | 41.34 | 34.74 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:45:34 | 41.67 | 35.07 | 1,076 | 1.14 | 0.29 | 58.8 |
| 4/30/2015 23:45:34 | 41.99 | 35.39 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:34 | 42.32 | 35.72 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:34 | 42.65 | 36.05 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:35 | 42.98 | 36.38 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 23:45:35 | 43.31 | 36.71 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 23:45:35 | 43.64 | 37.04 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:36 | 43.96 | 37.36 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:36 | 44.29 | 37.69 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:36 | 44.62 | 38.02 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:37 | 44.95 | 38.35 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:37 | 45.28 | 38.68 | 1,073 | 1.14 | 0.29 | 58.7 |
| 4/30/2015 23:45:37 | 45.60 | 39.00 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 23:45:38 | 45.93 | 39.33 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:38 | 46.26 | 39.66 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:38 | 46.59 | 39.99 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:45:39 | 46.92 | 40.32 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:39 | 47.24 | 40.64 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:39 | 47.57 | 40.97 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:45:40 | 47.90 | 41.30 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:45:40 | 48.23 | 41.63 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:45:40 | 48.56 | 41.96 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:41 | 48.88 | 42.28 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:41 | 49.21 | 42.61 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 23:45:41 | 49.54 | 42.94 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 23:45:42 | 49.87 | 43.27 | 1,077 | 1.14 | 0.29 | 58.9 |
| 4/30/2015 23:45:42 | 50.20 | 43.60 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 23:45:42 | 50.53 | 43.93 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:43 | 50.85 | 44.25 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:43 | 51.18 | 44.58 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:43 | 51.51 | 44.91 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:44 | 51.84 | 45.24 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 23:45:44 | 52.17 | 45.57 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:45:45 | 52.49 | 45.89 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:45:45 | 52.82 | 46.22 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:45:45 | 53.15 | 46.55 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:45:46 | 53.48 | 46.88 | 1,055 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 23:45:46 | 53.81 | 47.21 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:45:46 | 54.13 | 47.53 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:47 | 54.46 | 47.86 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:47 | 54.79 | 48.19 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 23:45:47 | 55.12 | 48.52 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:45:48 | 55.45 | 48.85 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:45:48 | 55.77 | 49.17 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 23:45:48 | 56.10 | 49.50 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 23:45:49 | 56.43 | 49.83 | 1,062 | 1.14 | 0.29 | 58.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:45:57 | 56.76 | 50.16 | 37 | 1.14 | 0.29 | 2.0 |
| 4/30/2015 | 23:45:58 | 57.09 | 50.49 | 170 | 1.14 | 0.29 | 9.3 |
| 4/30/2015 | 23:45:58 | 57.41 | 50.81 | 255 | 1.14 | 0.29 | 13.9 |
| 4/30/2015 | 23:45:59 | 57.74 | 51.14 | 415 | 1.14 | 0.29 | 22.7 |
| 4/30/2015 | 23:46:07 | 58.07 | 51.47 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 23:46:14 | 58.40 | 51.80 | 51 | 1.14 | 0.29 | 2.8 |
| 4/30/2015 | 23:46:24 | 58.73 | 52.13 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 23:46:37 | 59.06 | 52.46 | 22 | 1.14 | 0.29 | 1.2 |
| 4/30/2015 | 23:46:46 | 59.31 | 52.71 | 32 | 1.14 | 0.29 | 1.8 |

## L183 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:44:24

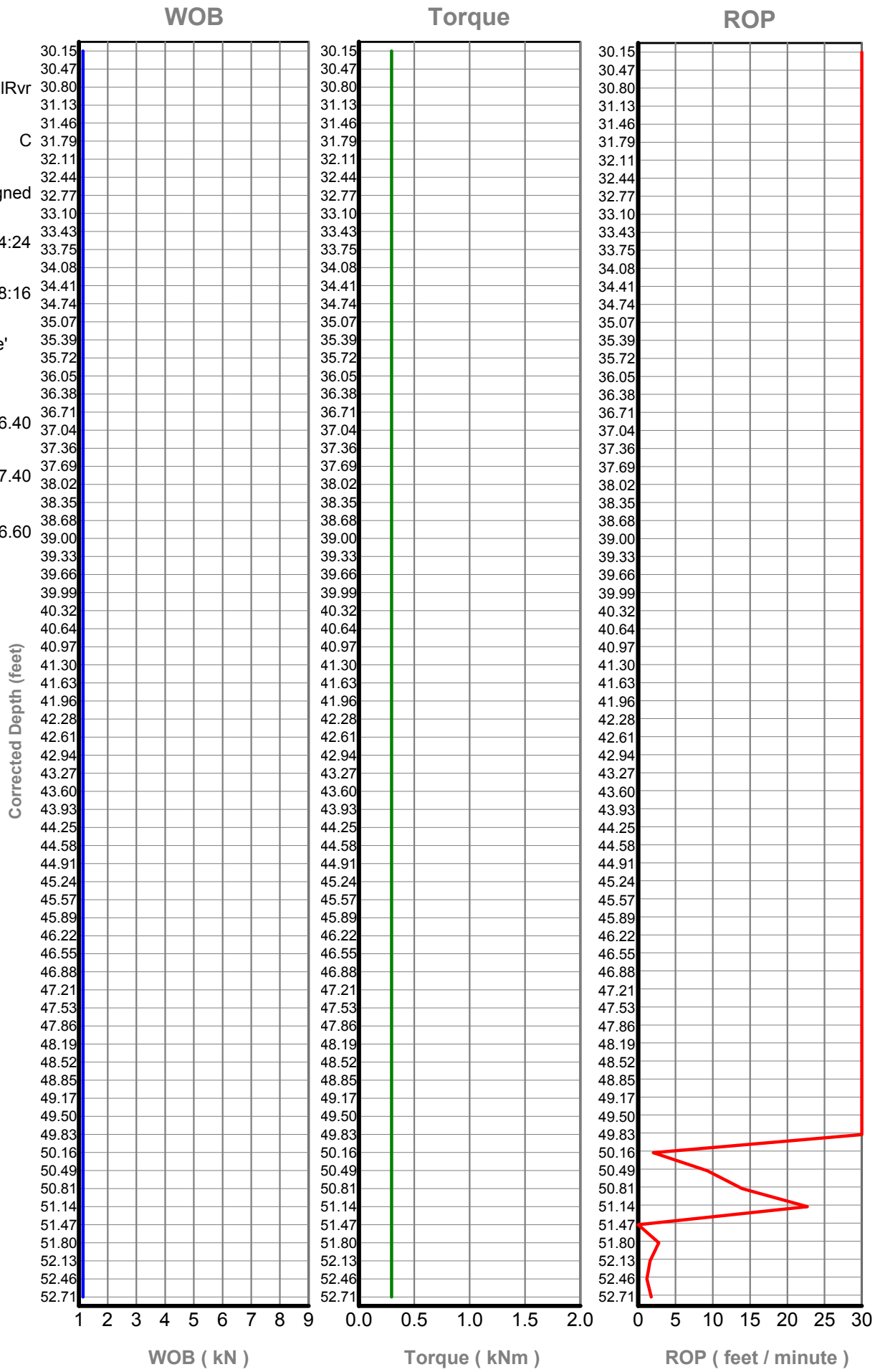
**End Date:**
4/30/2015 23:48:16

**Operator Note:**
'6.6 6.7 c Auto Complete'

**Northing:**
360,046.40

**Easting:**
243,077.40

**Tide (feet):**
6.60



## Hole: L184 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 20:47:34 | 35.11 | 30.01 | 838 | 1.50 | 0.67 | 45.8 |
| 4/30/2015 20:47:34 | 35.43 | 30.33 | 838 | 1.50 | 0.67 | 45.8 |
| 4/30/2015 20:47:34 | 35.76 | 30.66 | 835 | 1.51 | 0.67 | 45.7 |
| 4/30/2015 20:47:40 | 36.09 | 30.99 | 0 | 1.13 | 0.20 | 0.0 |
| 4/30/2015 20:47:40 | 36.42 | 31.32 | 133 | 1.16 | 0.20 | 7.2 |
| 4/30/2015 20:47:41 | 36.75 | 31.65 | 269 | 1.13 | 0.21 | 14.7 |
| 4/30/2015 20:47:41 | 37.07 | 31.97 | 414 | 1.15 | 0.21 | 22.6 |
| 4/30/2015 20:47:42 | 37.40 | 32.30 | 557 | 1.13 | 0.21 | 30.4 |
| 4/30/2015 20:47:42 | 37.73 | 32.63 | 696 | 1.14 | 0.21 | 38.1 |
| 4/30/2015 20:47:43 | 38.06 | 32.96 | 708 | 1.13 | 0.21 | 38.7 |
| 4/30/2015 20:47:43 | 38.39 | 33.29 | 711 | 1.13 | 0.21 | 38.9 |
| 4/30/2015 20:47:44 | 38.71 | 33.61 | 703 | 1.14 | 0.21 | 38.4 |
| 4/30/2015 20:47:44 | 39.04 | 33.94 | 712 | 1.14 | 0.21 | 38.9 |
| 4/30/2015 20:47:45 | 39.37 | 34.27 | 709 | 1.13 | 0.22 | 38.8 |
| 4/30/2015 20:47:45 | 39.70 | 34.60 | 709 | 1.14 | 0.21 | 38.8 |
| 4/30/2015 20:47:46 | 40.03 | 34.93 | 709 | 1.13 | 0.21 | 38.8 |
| 4/30/2015 20:47:46 | 40.35 | 35.25 | 713 | 1.13 | 0.21 | 39.0 |
| 4/30/2015 20:47:47 | 40.68 | 35.58 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:47:47 | 41.01 | 35.91 | 705 | 1.14 | 0.21 | 38.6 |
| 4/30/2015 20:47:48 | 41.34 | 36.24 | 698 | 1.13 | 0.21 | 38.2 |
| 4/30/2015 20:47:49 | 41.67 | 36.57 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:49 | 41.99 | 36.89 | 703 | 0.98 | 0.21 | 38.4 |
| 4/30/2015 20:47:50 | 42.32 | 37.22 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:50 | 42.65 | 37.55 | 703 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:47:51 | 42.98 | 37.88 | 708 | 1.13 | 0.21 | 38.7 |
| 4/30/2015 20:47:51 | 43.31 | 38.21 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:47:52 | 43.64 | 38.54 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 20:47:52 | 43.96 | 38.86 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 20:47:52 | 44.29 | 39.19 | 701 | 1.13 | 0.21 | 38.3 |
| 4/30/2015 20:47:53 | 44.62 | 39.52 | 708 | 1.14 | 0.23 | 38.7 |
| 4/30/2015 20:47:53 | 44.95 | 39.85 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:54 | 45.28 | 40.18 | 705 | 1.14 | 0.21 | 38.6 |
| 4/30/2015 20:47:54 | 45.60 | 40.50 | 705 | 1.14 | 0.21 | 38.6 |
| 4/30/2015 20:47:55 | 45.93 | 40.83 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 20:47:55 | 46.26 | 41.16 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:56 | 46.59 | 41.49 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:47:56 | 46.92 | 41.82 | 701 | 1.13 | 0.21 | 38.3 |
| 4/30/2015 20:47:57 | 47.24 | 42.14 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:57 | 47.57 | 42.47 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:58 | 47.90 | 42.80 | 702 | 1.12 | 0.21 | 38.4 |
| 4/30/2015 20:47:59 | 48.23 | 43.13 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:47:59 | 48.56 | 43.46 | 708 | 1.13 | 0.21 | 38.7 |
| 4/30/2015 20:48:00 | 48.88 | 43.78 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:48:00 | 49.21 | 44.11 | 705 | 1.13 | 0.21 | 38.6 |
| 4/30/2015 20:48:01 | 49.54 | 44.44 | 701 | 1.12 | 0.21 | 38.3 |
| 4/30/2015 20:48:01 | 49.87 | 44.77 | 708 | 1.14 | 0.21 | 38.7 |
| 4/30/2015 20:48:02 | 50.20 | 45.10 | 706 | 1.12 | 0.21 | 38.6 |
| 4/30/2015 20:48:02 | 50.53 | 45.43 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:48:03 | 50.85 | 45.75 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:48:03 | 51.18 | 46.08 | 709 | 1.12 | 0.21 | 38.8 |
| 4/30/2015 20:48:04 | 51.51 | 46.41 | 700 | 1.12 | 0.21 | 38.3 |
| 4/30/2015 20:48:04 | 51.84 | 46.74 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:48:05 | 52.17 | 47.07 | 702 | 1.12 | 0.21 | 38.4 |
| 4/30/2015 20:48:05 | 52.49 | 47.39 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:48:06 | 52.82 | 47.72 | 700 | 1.13 | 0.21 | 38.3 |
| 4/30/2015 20:48:06 | 53.15 | 48.05 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 20:48:07 | 53.48 | 48.38 | 695 | 1.13 | 0.21 | 38.0 |
| 4/30/2015 20:48:07 | 53.81 | 48.71 | 702 | 1.11 | 0.21 | 38.4 |
| 4/30/2015 20:48:08 | 54.13 | 49.03 | 700 | 1.13 | 0.21 | 38.3 |
| 4/30/2015 20:48:08 | 54.46 | 49.36 | 697 | 1.12 | 0.21 | 38.1 |
| 4/30/2015 20:48:09 | 54.79 | 49.69 | 694 | 1.14 | 0.21 | 37.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 20:48:10 | 55.12 | 50.02 | 691 | 1.13 | 0.21 | 37.8 |
| 4/30/2015 | 20:48:10 | 55.45 | 50.35 | 685 | 1.15 | 0.21 | 37.5 |
| 4/30/2015 | 20:48:41 | 55.77 | 50.67 | 17 | 1.22 | 1.23 | 0.9 |
| 4/30/2015 | 20:48:42 | 56.10 | 51.00 | 141 | 1.21 | 1.20 | 7.7 |
| 4/30/2015 | 20:48:54 | 56.43 | 51.33 | 81 | 1.18 | 1.10 | 4.4 |
| 4/30/2015 | 20:48:58 | 56.76 | 51.66 | 98 | 1.13 | 1.11 | 5.4 |
| 4/30/2015 | 20:49:02 | 57.09 | 51.99 | 81 | 1.17 | 1.18 | 4.4 |
| 4/30/2015 | 20:49:06 | 57.41 | 52.31 | 90 | 1.11 | 1.21 | 4.9 |
| 4/30/2015 | 20:49:10 | 57.74 | 52.64 | 106 | 1.13 | 1.16 | 5.8 |
| 4/30/2015 | 20:49:14 | 58.07 | 52.97 | 98 | 1.17 | 1.11 | 5.4 |
| 4/30/2015 | 20:49:17 | 58.40 | 53.30 | 90 | 1.07 | 1.09 | 4.9 |
| 4/30/2015 | 20:49:21 | 58.73 | 53.63 | 95 | 1.09 | 1.23 | 5.2 |
| 4/30/2015 | 20:49:29 | 59.06 | 53.96 | 23 | 0.90 | 1.49 | 1.3 |
| 4/30/2015 | 20:49:33 | 59.38 | 54.28 | 125 | 1.06 | 1.07 | 6.8 |
| 4/30/2015 | 20:49:36 | 59.71 | 54.61 | 107 | 1.10 | 1.23 | 5.9 |
| 4/30/2015 | 20:49:39 | 59.99 | 54.89 | 101 | 1.22 | 1.21 | 5.5 |

## L184 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:44:00

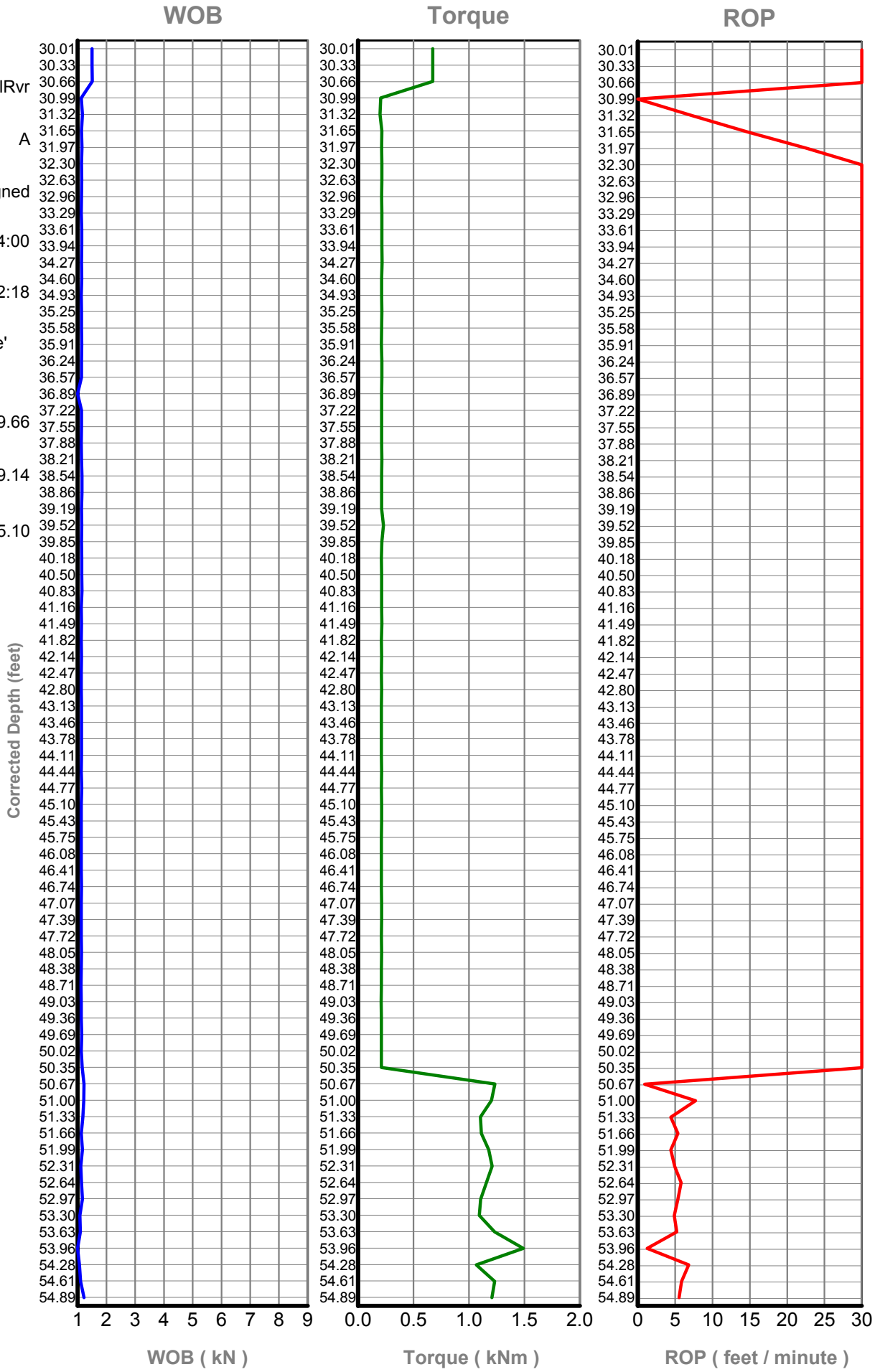
**End Date:**
4/30/2015 20:52:18

**Operator Note:**
'5.1 4.9 b Auto Complete'

**Northing:**
360,089.66

**Easting:**
243,149.14

**Tide (feet):**
5.10



## Hole: L185 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 20:46:52 | 35.43 | 30.23 | 916 | 0.41 | 0.41 | 50.1 |
| 4/30/2015 20:46:53 | 35.76 | 30.56 | 916 | 0.41 | 0.41 | 50.1 |
| 4/30/2015 20:46:53 | 36.09 | 30.89 | 916 | 0.41 | 0.41 | 50.1 |
| 4/30/2015 20:46:53 | 36.42 | 31.22 | 914 | 0.41 | 0.41 | 50.0 |
| 4/30/2015 20:46:54 | 36.75 | 31.55 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:46:54 | 37.07 | 31.87 | 911 | 0.42 | 0.40 | 49.8 |
| 4/30/2015 20:46:55 | 37.40 | 32.20 | 911 | 0.42 | 0.40 | 49.8 |
| 4/30/2015 20:46:55 | 37.73 | 32.53 | 911 | 0.42 | 0.41 | 49.8 |
| 4/30/2015 20:46:55 | 38.06 | 32.86 | 905 | 0.43 | 0.40 | 49.5 |
| 4/30/2015 20:46:56 | 38.39 | 33.19 | 916 | 0.42 | 0.40 | 50.1 |
| 4/30/2015 20:46:56 | 38.71 | 33.51 | 916 | 0.42 | 0.40 | 50.1 |
| 4/30/2015 20:46:56 | 39.04 | 33.84 | 911 | 0.41 | 0.40 | 49.8 |
| 4/30/2015 20:46:57 | 39.37 | 34.17 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:46:57 | 39.70 | 34.50 | 919 | 0.42 | 0.40 | 50.3 |
| 4/30/2015 20:46:58 | 40.03 | 34.83 | 919 | 0.42 | 0.40 | 50.3 |
| 4/30/2015 20:46:58 | 40.35 | 35.15 | 928 | 0.39 | 0.41 | 50.7 |
| 4/30/2015 20:46:59 | 40.68 | 35.48 | 922 | 0.41 | 0.40 | 50.4 |
| 4/30/2015 20:46:59 | 41.01 | 35.81 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:47:00 | 41.34 | 36.14 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:47:00 | 41.67 | 36.47 | 911 | 0.41 | 0.41 | 49.8 |
| 4/30/2015 20:47:00 | 41.99 | 36.79 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:47:01 | 42.32 | 37.12 | 914 | 0.41 | 0.40 | 50.0 |
| 4/30/2015 20:47:01 | 42.65 | 37.45 | 914 | 0.41 | 0.40 | 50.0 |
| 4/30/2015 20:47:01 | 42.98 | 37.78 | 919 | 0.41 | 0.41 | 50.3 |
| 4/30/2015 20:47:02 | 43.31 | 38.11 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:47:02 | 43.64 | 38.44 | 931 | 0.41 | 0.40 | 50.9 |
| 4/30/2015 20:47:03 | 43.96 | 38.76 | 931 | 0.41 | 0.40 | 50.9 |
| 4/30/2015 20:47:03 | 44.29 | 39.09 | 922 | 0.41 | 0.41 | 50.4 |
| 4/30/2015 20:47:03 | 44.62 | 39.42 | 922 | 0.42 | 0.40 | 50.4 |
| 4/30/2015 20:47:04 | 44.95 | 39.75 | 922 | 0.41 | 0.41 | 50.4 |
| 4/30/2015 20:47:04 | 45.28 | 40.08 | 922 | 0.41 | 0.41 | 50.4 |
| 4/30/2015 20:47:04 | 45.60 | 40.40 | 925 | 0.42 | 0.41 | 50.6 |
| 4/30/2015 20:47:05 | 45.93 | 40.73 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:05 | 46.26 | 41.06 | 916 | 0.42 | 0.40 | 50.1 |
| 4/30/2015 20:47:06 | 46.59 | 41.39 | 916 | 0.42 | 0.40 | 50.1 |
| 4/30/2015 20:47:06 | 46.92 | 41.72 | 916 | 0.41 | 0.41 | 50.1 |
| 4/30/2015 20:47:06 | 47.24 | 42.04 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:07 | 47.57 | 42.37 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:07 | 47.90 | 42.70 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:07 | 48.23 | 43.03 | 919 | 0.41 | 0.40 | 50.3 |
| 4/30/2015 20:47:08 | 48.56 | 43.36 | 919 | 0.41 | 0.41 | 50.3 |
| 4/30/2015 20:47:08 | 48.88 | 43.68 | 919 | 0.42 | 0.41 | 50.3 |
| 4/30/2015 20:47:09 | 49.21 | 44.01 | 919 | 0.42 | 0.41 | 50.3 |
| 4/30/2015 20:47:09 | 49.54 | 44.34 | 916 | 0.41 | 0.41 | 50.1 |
| 4/30/2015 20:47:10 | 49.87 | 44.67 | 913 | 0.41 | 0.40 | 49.9 |
| 4/30/2015 20:47:10 | 50.20 | 45.00 | 903 | 0.40 | 0.41 | 49.4 |
| 4/30/2015 20:47:11 | 50.53 | 45.33 | 903 | 0.40 | 0.41 | 49.4 |
| 4/30/2015 20:47:11 | 50.85 | 45.65 | 917 | 0.41 | 0.40 | 50.2 |
| 4/30/2015 20:47:11 | 51.18 | 45.98 | 917 | 0.41 | 0.41 | 50.2 |
| 4/30/2015 20:47:12 | 51.51 | 46.31 | 914 | 0.41 | 0.40 | 50.0 |
| 4/30/2015 20:47:12 | 51.84 | 46.64 | 914 | 0.41 | 0.40 | 50.0 |
| 4/30/2015 20:47:12 | 52.17 | 46.97 | 917 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:13 | 52.49 | 47.29 | 925 | 0.41 | 0.40 | 50.6 |
| 4/30/2015 20:47:13 | 52.82 | 47.62 | 919 | 0.41 | 0.41 | 50.3 |
| 4/30/2015 20:47:14 | 53.15 | 47.95 | 919 | 0.41 | 0.41 | 50.3 |
| 4/30/2015 20:47:14 | 53.48 | 48.28 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:14 | 53.81 | 48.61 | 914 | 0.41 | 0.41 | 50.0 |
| 4/30/2015 20:47:15 | 54.13 | 48.93 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:15 | 54.46 | 49.26 | 916 | 0.41 | 0.40 | 50.1 |
| 4/30/2015 20:47:15 | 54.79 | 49.59 | 914 | 0.41 | 0.41 | 50.0 |
| 4/30/2015 20:47:16 | 55.12 | 49.92 | 908 | 0.41 | 0.41 | 49.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 20:47:16 | 55.45 | 50.25 | 908 | 0.41 | 0.41 | 49.6 |
| 4/30/2015 | 20:47:17 | 55.77 | 50.57 | 908 | 0.41 | 0.41 | 49.6 |
| 4/30/2015 | 20:47:21 | 56.10 | 50.90 | 6 | 4.93 | 0.46 | 0.3 |
| 4/30/2015 | 20:47:22 | 56.43 | 51.23 | 128 | 5.02 | 0.43 | 7.0 |
| 4/30/2015 | 20:47:23 | 56.76 | 51.56 | 276 | 6.22 | 0.40 | 15.1 |
| 4/30/2015 | 20:47:28 | 57.09 | 51.89 | 52 | 5.48 | 0.47 | 2.9 |
| 4/30/2015 | 20:47:31 | 57.41 | 52.21 | 168 | 4.87 | 0.46 | 9.2 |
| 4/30/2015 | 20:47:32 | 57.74 | 52.54 | 211 | 4.19 | 0.46 | 11.5 |
| 4/30/2015 | 20:47:38 | 58.07 | 52.87 | 100 | 4.34 | 0.44 | 5.5 |
| 4/30/2015 | 20:47:39 | 58.40 | 53.20 | 209 | 4.11 | 0.44 | 11.4 |
| 4/30/2015 | 20:47:42 | 58.73 | 53.53 | 183 | 4.18 | 0.48 | 10.0 |
| 4/30/2015 | 20:47:51 | 59.06 | 53.86 | 42 | 4.13 | 0.48 | 2.3 |
| 4/30/2015 | 20:47:57 | 59.38 | 54.18 | 49 | 4.07 | 0.48 | 2.7 |
| 4/30/2015 | 20:48:06 | 59.71 | 54.51 | 37 | 3.62 | 0.48 | 2.0 |
| 4/30/2015 | 20:48:07 | 59.76 | 54.56 | 40 | 4.31 | 0.49 | 2.2 |

## L185 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:45:15

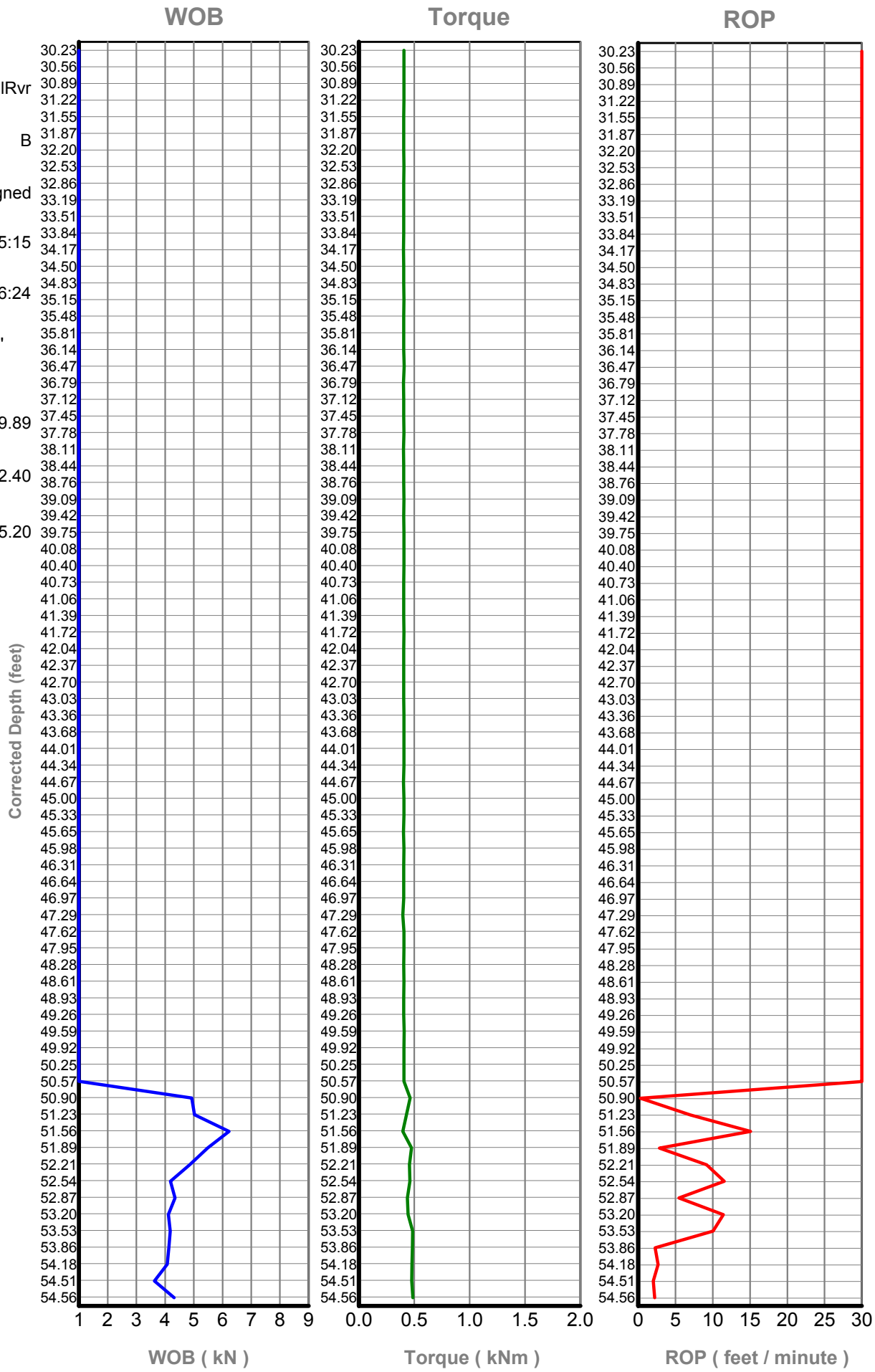
**End Date:**
4/30/2015 20:56:24

**Operator Note:**
'5.2 4.9b Auto Complete'

**Northing:**
360,129.89

**Easting:**
243,212.40

**Tide (feet):**
5.20



## Hole: L186 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 20:45:41 | 35.11 | 30.01 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 20:45:41 | 35.43 | 30.33 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 20:45:41 | 35.76 | 30.66 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 20:45:42 | 36.09 | 30.99 | 925 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 20:45:42 | 36.42 | 31.32 | 928 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:43 | 36.75 | 31.65 | 928 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:43 | 37.07 | 31.97 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 20:45:43 | 37.40 | 32.30 | 931 | 1.14 | 0.29 | 50.9 |
| 4/30/2015 20:45:44 | 37.73 | 32.63 | 934 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 20:45:44 | 38.06 | 32.96 | 934 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 20:45:44 | 38.39 | 33.29 | 934 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 20:45:45 | 38.71 | 33.61 | 926 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 20:45:45 | 39.04 | 33.94 | 936 | 1.14 | 0.29 | 51.2 |
| 4/30/2015 20:45:46 | 39.37 | 34.27 | 936 | 1.14 | 0.29 | 51.2 |
| 4/30/2015 20:45:46 | 39.70 | 34.60 | 930 | 1.14 | 0.29 | 50.9 |
| 4/30/2015 20:45:46 | 40.03 | 34.93 | 934 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:47 | 40.35 | 35.25 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:47 | 40.68 | 35.58 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:47 | 41.01 | 35.91 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:48 | 41.34 | 36.24 | 934 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:48 | 41.67 | 36.57 | 931 | 1.14 | 0.29 | 50.9 |
| 4/30/2015 20:45:49 | 41.99 | 36.89 | 931 | 1.14 | 0.29 | 50.9 |
| 4/30/2015 20:45:49 | 42.32 | 37.22 | 918 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 20:45:49 | 42.65 | 37.55 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:50 | 42.98 | 37.88 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:50 | 43.31 | 38.21 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:50 | 43.64 | 38.54 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:51 | 43.96 | 38.86 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 20:45:51 | 44.29 | 39.19 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 20:45:51 | 44.62 | 39.52 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 20:45:52 | 44.95 | 39.85 | 928 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:45:53 | 45.28 | 40.18 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:53 | 45.60 | 40.50 | 933 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:53 | 45.93 | 40.83 | 930 | 1.14 | 0.29 | 50.9 |
| 4/30/2015 20:45:54 | 46.26 | 41.16 | 920 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 20:45:54 | 46.59 | 41.49 | 927 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:55 | 46.92 | 41.82 | 927 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:55 | 47.24 | 42.14 | 927 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:55 | 47.57 | 42.47 | 927 | 1.14 | 0.29 | 50.7 |
| 4/30/2015 20:45:56 | 47.90 | 42.80 | 935 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 20:45:56 | 48.23 | 43.13 | 935 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 20:45:56 | 48.56 | 43.46 | 932 | 1.14 | 0.29 | 51.0 |
| 4/30/2015 20:45:57 | 48.88 | 43.78 | 937 | 1.14 | 0.29 | 51.2 |
| 4/30/2015 20:45:57 | 49.21 | 44.11 | 940 | 1.14 | 0.29 | 51.4 |
| 4/30/2015 20:45:58 | 49.54 | 44.44 | 940 | 1.14 | 0.29 | 51.4 |
| 4/30/2015 20:45:58 | 49.87 | 44.77 | 918 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 20:45:58 | 50.20 | 45.10 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:59 | 50.53 | 45.43 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:59 | 50.85 | 45.75 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:45:59 | 51.18 | 46.08 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 20:46:00 | 51.51 | 46.41 | 929 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:46:00 | 51.84 | 46.74 | 929 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:46:00 | 52.17 | 47.07 | 913 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 20:46:01 | 52.49 | 47.39 | 928 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:46:01 | 52.82 | 47.72 | 928 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:46:02 | 53.15 | 48.05 | 928 | 1.14 | 0.29 | 50.8 |
| 4/30/2015 20:46:02 | 53.48 | 48.38 | 921 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 20:46:02 | 53.81 | 48.71 | 921 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 20:46:03 | 54.13 | 49.03 | 926 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 20:46:04 | 54.46 | 49.36 | 926 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 20:46:25 | 54.79 | 49.69 | 73 | 1.14 | 0.29 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 20:46:26 | 55.12 | 50.02 | 200 | 1.14 | 0.29 | 11.0 |
| 4/30/2015 | 20:46:26 | 55.45 | 50.35 | 306 | 1.14 | 0.29 | 16.7 |
| 4/30/2015 | 20:46:27 | 55.77 | 50.67 | 418 | 1.14 | 0.29 | 22.8 |
| 4/30/2015 | 20:46:28 | 56.10 | 51.00 | 479 | 1.14 | 0.29 | 26.2 |
| 4/30/2015 | 20:46:40 | 56.43 | 51.33 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 20:46:40 | 56.76 | 51.66 | 103 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 | 20:46:41 | 57.09 | 51.99 | 226 | 1.14 | 0.29 | 12.4 |
| 4/30/2015 | 20:46:41 | 57.41 | 52.31 | 355 | 1.14 | 0.29 | 19.4 |
| 4/30/2015 | 20:46:42 | 57.74 | 52.64 | 610 | 1.14 | 0.29 | 33.4 |
| 4/30/2015 | 20:46:43 | 58.07 | 52.97 | 640 | 1.14 | 0.29 | 35.0 |
| 4/30/2015 | 20:46:43 | 58.40 | 53.30 | 640 | 1.14 | 0.29 | 35.0 |
| 4/30/2015 | 20:46:44 | 58.73 | 53.63 | 543 | 1.14 | 0.29 | 29.7 |
| 4/30/2015 | 20:46:45 | 59.06 | 53.96 | 407 | 1.14 | 0.29 | 22.3 |
| 4/30/2015 | 20:46:46 | 59.38 | 54.28 | 402 | 1.14 | 0.29 | 22.0 |
| 4/30/2015 | 20:46:46 | 59.71 | 54.61 | 390 | 1.14 | 0.29 | 21.3 |
| 4/30/2015 | 20:46:47 | 60.04 | 54.94 | 461 | 1.14 | 0.29 | 25.2 |
| 4/30/2015 | 20:46:50 | 60.37 | 55.27 | 127 | 1.14 | 0.29 | 6.9 |
| 4/30/2015 | 20:46:53 | 60.70 | 55.60 | 31 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 | 20:46:54 | 61.02 | 55.92 | 208 | 1.14 | 0.29 | 11.4 |
| 4/30/2015 | 20:46:54 | 61.35 | 56.25 | 354 | 1.14 | 0.29 | 19.3 |
| 4/30/2015 | 20:46:55 | 61.68 | 56.58 | 510 | 1.14 | 0.29 | 27.9 |
| 4/30/2015 | 20:46:55 | 62.01 | 56.91 | 669 | 1.14 | 0.29 | 36.6 |
| 4/30/2015 | 20:46:56 | 62.34 | 57.24 | 669 | 1.14 | 0.29 | 36.6 |
| 4/30/2015 | 20:46:56 | 62.66 | 57.56 | 792 | 1.14 | 0.29 | 43.3 |
| 4/30/2015 | 20:46:56 | 62.99 | 57.89 | 768 | 1.14 | 0.29 | 42.0 |
| 4/30/2015 | 20:46:57 | 63.32 | 58.22 | 774 | 1.14 | 0.29 | 42.3 |
| 4/30/2015 | 20:48:18 | 63.49 | 58.39 | 0 | 1.14 | 0.29 | 0.0 |

## L186 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:44:27

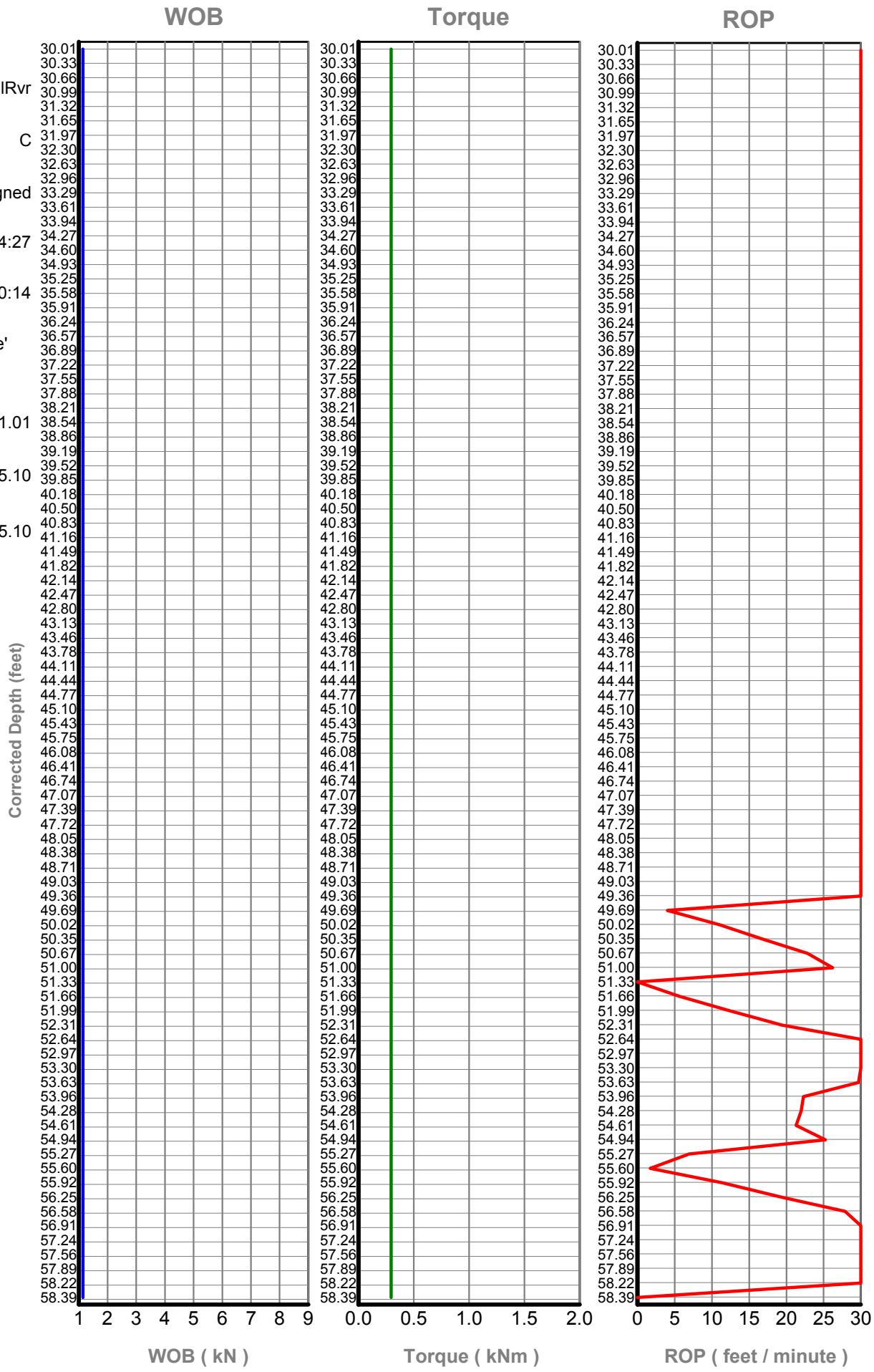
**End Date:**
4/30/2015 20:50:14

**Operator Note:**
'5.1 4.9 c Auto Complete'

**Northing:**
360,171.01

**Easting:**
243,275.10

**Tide (feet):**
5.10



## Hole: L187 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 20:04:00 | 34.12 | 30.02 | 682 | 1.16 | 0.22 | 37.3 |
| 4/30/2015 20:04:01 | 34.45 | 30.35 | 688 | 1.16 | 0.22 | 37.6 |
| 4/30/2015 20:04:01 | 34.78 | 30.68 | 694 | 1.17 | 0.30 | 37.9 |
| 4/30/2015 20:04:02 | 35.11 | 31.01 | 693 | 1.17 | 0.22 | 37.9 |
| 4/30/2015 20:04:02 | 35.43 | 31.33 | 700 | 1.16 | 0.19 | 38.3 |
| 4/30/2015 20:04:03 | 35.76 | 31.66 | 697 | 1.15 | 0.22 | 38.1 |
| 4/30/2015 20:04:03 | 36.09 | 31.99 | 697 | 1.16 | 0.22 | 38.1 |
| 4/30/2015 20:04:04 | 36.42 | 32.32 | 697 | 1.21 | 0.22 | 38.1 |
| 4/30/2015 20:04:04 | 36.75 | 32.65 | 700 | 1.17 | 0.22 | 38.3 |
| 4/30/2015 20:04:05 | 37.07 | 32.97 | 694 | 1.16 | 0.22 | 37.9 |
| 4/30/2015 20:04:06 | 37.40 | 33.30 | 694 | 1.16 | 0.22 | 37.9 |
| 4/30/2015 20:04:06 | 37.73 | 33.63 | 690 | 1.17 | 0.22 | 37.7 |
| 4/30/2015 20:04:07 | 38.06 | 33.96 | 697 | 1.17 | 0.20 | 38.1 |
| 4/30/2015 20:04:07 | 38.39 | 34.29 | 694 | 1.15 | 0.22 | 37.9 |
| 4/30/2015 20:04:08 | 38.71 | 34.61 | 700 | 1.16 | 0.22 | 38.3 |
| 4/30/2015 20:04:08 | 39.04 | 34.94 | 700 | 1.18 | 0.22 | 38.3 |
| 4/30/2015 20:04:09 | 39.37 | 35.27 | 700 | 1.17 | 0.22 | 38.3 |
| 4/30/2015 20:04:09 | 39.70 | 35.60 | 700 | 1.16 | 0.22 | 38.3 |
| 4/30/2015 20:04:10 | 40.03 | 35.93 | 700 | 1.16 | 0.22 | 38.3 |
| 4/30/2015 20:04:10 | 40.35 | 36.25 | 692 | 1.17 | 0.22 | 37.9 |
| 4/30/2015 20:04:11 | 40.68 | 36.58 | 697 | 1.17 | 0.22 | 38.1 |
| 4/30/2015 20:04:11 | 41.01 | 36.91 | 697 | 1.17 | 0.22 | 38.1 |
| 4/30/2015 20:04:12 | 41.34 | 37.24 | 694 | 1.16 | 0.22 | 37.9 |
| 4/30/2015 20:04:12 | 41.67 | 37.57 | 691 | 1.17 | 0.22 | 37.8 |
| 4/30/2015 20:04:13 | 41.99 | 37.89 | 694 | 1.16 | 0.22 | 37.9 |
| 4/30/2015 20:04:13 | 42.32 | 38.22 | 691 | 1.13 | 0.22 | 37.8 |
| 4/30/2015 20:04:14 | 42.65 | 38.55 | 691 | 1.17 | 0.22 | 37.8 |
| 4/30/2015 20:04:14 | 42.98 | 38.88 | 687 | 1.15 | 0.22 | 37.5 |
| 4/30/2015 20:04:15 | 43.31 | 39.21 | 697 | 1.16 | 0.22 | 38.1 |
| 4/30/2015 20:04:16 | 43.64 | 39.54 | 691 | 1.17 | 0.22 | 37.8 |
| 4/30/2015 20:04:16 | 43.96 | 39.86 | 694 | 1.15 | 0.22 | 37.9 |
| 4/30/2015 20:04:17 | 44.29 | 40.19 | 694 | 1.15 | 0.22 | 37.9 |
| 4/30/2015 20:04:17 | 44.62 | 40.52 | 698 | 1.17 | 0.22 | 38.2 |
| 4/30/2015 20:04:18 | 44.95 | 40.85 | 691 | 1.15 | 0.22 | 37.8 |
| 4/30/2015 20:04:18 | 45.28 | 41.18 | 691 | 1.15 | 0.21 | 37.8 |
| 4/30/2015 20:04:19 | 45.60 | 41.50 | 691 | 1.16 | 0.22 | 37.8 |
| 4/30/2015 20:04:19 | 45.93 | 41.83 | 691 | 1.17 | 0.22 | 37.8 |
| 4/30/2015 20:04:20 | 46.26 | 42.16 | 688 | 1.17 | 0.21 | 37.6 |
| 4/30/2015 20:04:20 | 46.59 | 42.49 | 688 | 1.16 | 0.22 | 37.6 |
| 4/30/2015 20:04:21 | 46.92 | 42.82 | 688 | 1.16 | 0.22 | 37.6 |
| 4/30/2015 20:04:21 | 47.24 | 43.14 | 685 | 1.17 | 0.22 | 37.5 |
| 4/30/2015 20:04:22 | 47.57 | 43.47 | 682 | 1.15 | 0.22 | 37.3 |
| 4/30/2015 20:04:22 | 47.90 | 43.80 | 682 | 1.17 | 0.22 | 37.3 |
| 4/30/2015 20:04:23 | 48.23 | 44.13 | 679 | 1.17 | 0.22 | 37.1 |
| 4/30/2015 20:04:23 | 48.56 | 44.46 | 679 | 1.16 | 0.22 | 37.1 |
| 4/30/2015 20:04:24 | 48.88 | 44.78 | 679 | 1.15 | 0.21 | 37.1 |
| 4/30/2015 20:04:24 | 49.21 | 45.11 | 676 | 1.17 | 0.22 | 37.0 |
| 4/30/2015 20:04:25 | 49.54 | 45.44 | 672 | 1.17 | 0.22 | 36.8 |
| 4/30/2015 20:04:26 | 49.87 | 45.77 | 676 | 1.15 | 0.22 | 37.0 |
| 4/30/2015 20:04:26 | 50.20 | 46.10 | 674 | 1.15 | 0.22 | 36.8 |
| 4/30/2015 20:04:27 | 50.53 | 46.43 | 671 | 1.15 | 0.22 | 36.7 |
| 4/30/2015 20:04:27 | 50.85 | 46.75 | 671 | 1.18 | 0.21 | 36.7 |
| 4/30/2015 20:04:28 | 51.18 | 47.08 | 651 | 1.19 | 0.21 | 35.6 |
| 4/30/2015 20:04:28 | 51.51 | 47.41 | 615 | 1.18 | 0.21 | 33.7 |
| 4/30/2015 20:04:29 | 51.84 | 47.74 | 531 | 1.20 | 0.21 | 29.1 |
| 4/30/2015 20:04:30 | 52.17 | 48.07 | 451 | 1.19 | 0.21 | 24.7 |
| 4/30/2015 20:04:31 | 52.49 | 48.39 | 394 | 1.21 | 0.21 | 21.5 |
| 4/30/2015 20:04:33 | 52.82 | 48.72 | 272 | 1.23 | 0.21 | 14.9 |
| 4/30/2015 20:05:07 | 53.15 | 49.05 | 46 | 1.19 | 0.21 | 2.5 |
| 4/30/2015 20:05:08 | 53.48 | 49.38 | 191 | 1.17 | 0.21 | 10.4 |
| 4/30/2015 20:06:02 | 53.81 | 49.71 | 18 | 1.19 | 0.21 | 1.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 20:06:03 | 54.13 | 50.03 | 104 | 1.20 | 0.21 | 5.7 |
| 4/30/2015 | 20:06:04 | 54.46 | 50.36 | 223 | 1.15 | 0.93 | 12.2 |
| 4/30/2015 | 20:06:05 | 54.79 | 50.69 | 386 | 1.14 | 0.88 | 21.1 |
| 4/30/2015 | 20:06:06 | 55.12 | 51.02 | 399 | 1.15 | 0.86 | 21.8 |
| 4/30/2015 | 20:06:18 | 55.45 | 51.35 | 1 | 1.19 | 0.83 | 0.1 |
| 4/30/2015 | 20:06:19 | 55.77 | 51.67 | 101 | 1.17 | 0.84 | 5.5 |
| 4/30/2015 | 20:06:20 | 56.10 | 52.00 | 101 | 1.17 | 0.83 | 5.5 |
| 4/30/2015 | 20:06:20 | 56.43 | 52.33 | 212 | 1.17 | 0.82 | 11.6 |
| 4/30/2015 | 20:06:21 | 56.76 | 52.66 | 323 | 1.19 | 0.84 | 17.6 |
| 4/30/2015 | 20:06:22 | 57.09 | 52.99 | 408 | 1.16 | 0.83 | 22.3 |
| 4/30/2015 | 20:06:22 | 57.41 | 53.31 | 408 | 1.18 | 0.84 | 22.3 |
| 4/30/2015 | 20:06:23 | 57.74 | 53.64 | 498 | 1.18 | 0.84 | 27.2 |
| 4/30/2015 | 20:06:24 | 58.07 | 53.97 | 498 | 1.19 | 0.84 | 27.2 |
| 4/30/2015 | 20:06:25 | 58.40 | 54.30 | 462 | 1.19 | 0.85 | 25.2 |
| 4/30/2015 | 20:06:26 | 58.73 | 54.63 | 422 | 1.19 | 1.01 | 23.1 |
| 4/30/2015 | 20:06:27 | 59.06 | 54.96 | 334 | 1.18 | 1.06 | 18.3 |
| 4/30/2015 | 20:06:29 | 59.38 | 55.28 | 162 | 1.15 | 1.23 | 8.8 |
| 4/30/2015 | 20:06:31 | 59.71 | 55.61 | 206 | 1.17 | 1.22 | 11.3 |
| 4/30/2015 | 20:06:32 | 60.04 | 55.94 | 295 | 1.19 | 1.06 | 16.1 |
| 4/30/2015 | 20:06:33 | 60.37 | 56.27 | 276 | 1.21 | 1.26 | 15.1 |
| 4/30/2015 | 20:06:41 | 60.61 | 56.51 | 0 | 0.57 | 0.73 | 0.0 |

## L187 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 20:01:27

**End Date:**
4/30/2015 20:17:39

**Operator Note:**
'4.1 3.9 b Auto Complete'

**Northing:**
360,205.04

**Easting:**
243,341.96

**Tide (feet):**
4.10



## Hole: L188 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 19:59:01 | 34.12 | 30.02 | 1,009 | 0.36 | 0.39 | 55.2 |
| 4/30/2015 19:59:02 | 34.45 | 30.35 | 1,028 | 0.37 | 0.40 | 56.2 |
| 4/30/2015 19:59:02 | 34.78 | 30.68 | 1,028 | 0.37 | 0.40 | 56.2 |
| 4/30/2015 19:59:02 | 35.11 | 31.01 | 1,025 | 0.37 | 0.40 | 56.0 |
| 4/30/2015 19:59:03 | 35.43 | 31.33 | 1,022 | 0.37 | 0.40 | 55.9 |
| 4/30/2015 19:59:03 | 35.76 | 31.66 | 1,022 | 0.37 | 0.40 | 55.9 |
| 4/30/2015 19:59:03 | 36.09 | 31.99 | 1,016 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:04 | 36.42 | 32.32 | 1,036 | 0.38 | 0.39 | 56.7 |
| 4/30/2015 19:59:05 | 36.75 | 32.65 | 1,036 | 0.38 | 0.39 | 56.7 |
| 4/30/2015 19:59:05 | 37.07 | 32.97 | 1,020 | 0.38 | 0.40 | 55.8 |
| 4/30/2015 19:59:05 | 37.40 | 33.30 | 1,018 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:06 | 37.73 | 33.63 | 1,018 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:06 | 38.06 | 33.96 | 1,018 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:06 | 38.39 | 34.29 | 1,026 | 0.37 | 0.39 | 56.1 |
| 4/30/2015 19:59:07 | 38.71 | 34.61 | 1,026 | 0.37 | 0.39 | 56.1 |
| 4/30/2015 19:59:07 | 39.04 | 34.94 | 1,023 | 0.38 | 0.39 | 56.0 |
| 4/30/2015 19:59:07 | 39.37 | 35.27 | 1,007 | 0.37 | 0.39 | 55.1 |
| 4/30/2015 19:59:08 | 39.70 | 35.60 | 1,007 | 0.37 | 0.39 | 55.1 |
| 4/30/2015 19:59:08 | 40.03 | 35.93 | 1,007 | 0.37 | 0.40 | 55.1 |
| 4/30/2015 19:59:08 | 40.35 | 36.25 | 1,016 | 0.37 | 0.40 | 55.6 |
| 4/30/2015 19:59:09 | 40.68 | 36.58 | 1,016 | 0.37 | 0.39 | 55.6 |
| 4/30/2015 19:59:09 | 41.01 | 36.91 | 1,016 | 0.37 | 0.39 | 55.6 |
| 4/30/2015 19:59:09 | 41.34 | 37.24 | 1,016 | 0.37 | 0.40 | 55.6 |
| 4/30/2015 19:59:10 | 41.67 | 37.57 | 1,011 | 0.37 | 0.40 | 55.3 |
| 4/30/2015 19:59:10 | 41.99 | 37.89 | 1,011 | 0.37 | 0.40 | 55.3 |
| 4/30/2015 19:59:10 | 42.32 | 38.22 | 1,027 | 0.37 | 0.39 | 56.2 |
| 4/30/2015 19:59:11 | 42.65 | 38.55 | 1,020 | 0.38 | 0.40 | 55.8 |
| 4/30/2015 19:59:11 | 42.98 | 38.88 | 1,020 | 0.38 | 0.40 | 55.8 |
| 4/30/2015 19:59:11 | 43.31 | 39.21 | 1,023 | 0.37 | 0.40 | 56.0 |
| 4/30/2015 19:59:12 | 43.64 | 39.54 | 1,020 | 0.37 | 0.39 | 55.8 |
| 4/30/2015 19:59:12 | 43.96 | 39.86 | 1,020 | 0.37 | 0.39 | 55.8 |
| 4/30/2015 19:59:12 | 44.29 | 40.19 | 1,023 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 19:59:13 | 44.62 | 40.52 | 1,023 | 0.38 | 0.40 | 56.0 |
| 4/30/2015 19:59:13 | 44.95 | 40.85 | 1,023 | 0.38 | 0.40 | 56.0 |
| 4/30/2015 19:59:13 | 45.28 | 41.18 | 1,020 | 0.38 | 0.40 | 55.8 |
| 4/30/2015 19:59:14 | 45.60 | 41.50 | 1,017 | 0.38 | 0.40 | 55.6 |
| 4/30/2015 19:59:14 | 45.93 | 41.83 | 1,017 | 0.38 | 0.40 | 55.6 |
| 4/30/2015 19:59:15 | 46.26 | 42.16 | 1,020 | 0.38 | 0.39 | 55.8 |
| 4/30/2015 19:59:15 | 46.59 | 42.49 | 1,020 | 0.39 | 0.39 | 55.8 |
| 4/30/2015 19:59:16 | 46.92 | 42.82 | 1,020 | 0.39 | 0.39 | 55.8 |
| 4/30/2015 19:59:16 | 47.24 | 43.14 | 1,026 | 0.38 | 0.39 | 56.1 |
| 4/30/2015 19:59:16 | 47.57 | 43.47 | 1,023 | 0.38 | 0.39 | 56.0 |
| 4/30/2015 19:59:17 | 47.90 | 43.80 | 1,023 | 0.38 | 0.39 | 56.0 |
| 4/30/2015 19:59:17 | 48.23 | 44.13 | 1,026 | 0.37 | 0.40 | 56.1 |
| 4/30/2015 19:59:17 | 48.56 | 44.46 | 1,026 | 0.37 | 0.39 | 56.1 |
| 4/30/2015 19:59:18 | 48.88 | 44.78 | 1,026 | 0.37 | 0.39 | 56.1 |
| 4/30/2015 19:59:18 | 49.21 | 45.11 | 1,026 | 0.37 | 0.40 | 56.1 |
| 4/30/2015 19:59:18 | 49.54 | 45.44 | 1,017 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:19 | 49.87 | 45.77 | 1,017 | 0.38 | 0.39 | 55.6 |
| 4/30/2015 19:59:19 | 50.20 | 46.10 | 1,026 | 0.38 | 0.39 | 56.1 |
| 4/30/2015 19:59:19 | 50.53 | 46.43 | 1,023 | 0.39 | 0.40 | 56.0 |
| 4/30/2015 19:59:20 | 50.85 | 46.75 | 1,023 | 0.39 | 0.40 | 56.0 |
| 4/30/2015 19:59:20 | 51.18 | 47.08 | 1,023 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 19:59:20 | 51.51 | 47.41 | 1,023 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 19:59:21 | 51.84 | 47.74 | 1,023 | 0.37 | 0.39 | 56.0 |
| 4/30/2015 19:59:21 | 52.17 | 48.07 | 1,029 | 0.35 | 0.43 | 56.3 |
| 4/30/2015 19:59:28 | 52.49 | 48.39 | 56 | 5.78 | 0.45 | 3.1 |
| 4/30/2015 19:59:29 | 52.82 | 48.72 | 172 | 5.76 | 0.45 | 9.4 |
| 4/30/2015 19:59:31 | 53.15 | 49.05 | 281 | 5.18 | 0.47 | 15.4 |
| 4/30/2015 19:59:32 | 53.48 | 49.38 | 242 | 7.00 | 0.44 | 13.2 |
| 4/30/2015 19:59:33 | 53.81 | 49.71 | 294 | 3.98 | 0.43 | 16.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 19:59:33 | 54.13 | 50.03 | 377 | 4.24 | 0.43 | 20.6 |
| 4/30/2015 | 19:59:34 | 54.46 | 50.36 | 495 | 3.90 | 0.43 | 27.1 |
| 4/30/2015 | 19:59:41 | 54.79 | 50.69 | 31 | 5.17 | 0.46 | 1.7 |
| 4/30/2015 | 19:59:43 | 55.12 | 51.02 | 177 | 4.40 | 0.45 | 9.7 |
| 4/30/2015 | 19:59:44 | 55.45 | 51.35 | 268 | 4.22 | 0.44 | 14.7 |
| 4/30/2015 | 19:59:44 | 55.77 | 51.67 | 325 | 3.63 | 0.44 | 17.8 |
| 4/30/2015 | 19:59:45 | 56.10 | 52.00 | 425 | 4.63 | 0.44 | 23.3 |
| 4/30/2015 | 19:59:47 | 56.43 | 52.33 | 430 | 4.12 | 0.44 | 23.5 |
| 4/30/2015 | 19:59:48 | 56.76 | 52.66 | 402 | 3.94 | 0.46 | 22.0 |
| 4/30/2015 | 19:59:49 | 57.09 | 52.99 | 293 | 4.72 | 0.46 | 16.0 |
| 4/30/2015 | 19:59:50 | 57.41 | 53.31 | 261 | 4.81 | 0.44 | 14.2 |
| 4/30/2015 | 19:59:51 | 57.74 | 53.64 | 296 | 5.80 | 0.45 | 16.2 |
| 4/30/2015 | 19:59:52 | 58.07 | 53.97 | 425 | 3.64 | 0.43 | 23.2 |
| 4/30/2015 | 19:59:52 | 58.40 | 54.30 | 493 | 3.61 | 0.44 | 27.0 |
| 4/30/2015 | 19:59:56 | 58.73 | 54.63 | 49 | 4.57 | 0.47 | 2.7 |
| 4/30/2015 | 19:59:57 | 58.84 | 54.74 | 77 | 4.67 | 0.47 | 4.2 |

## L188 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 19:57:19

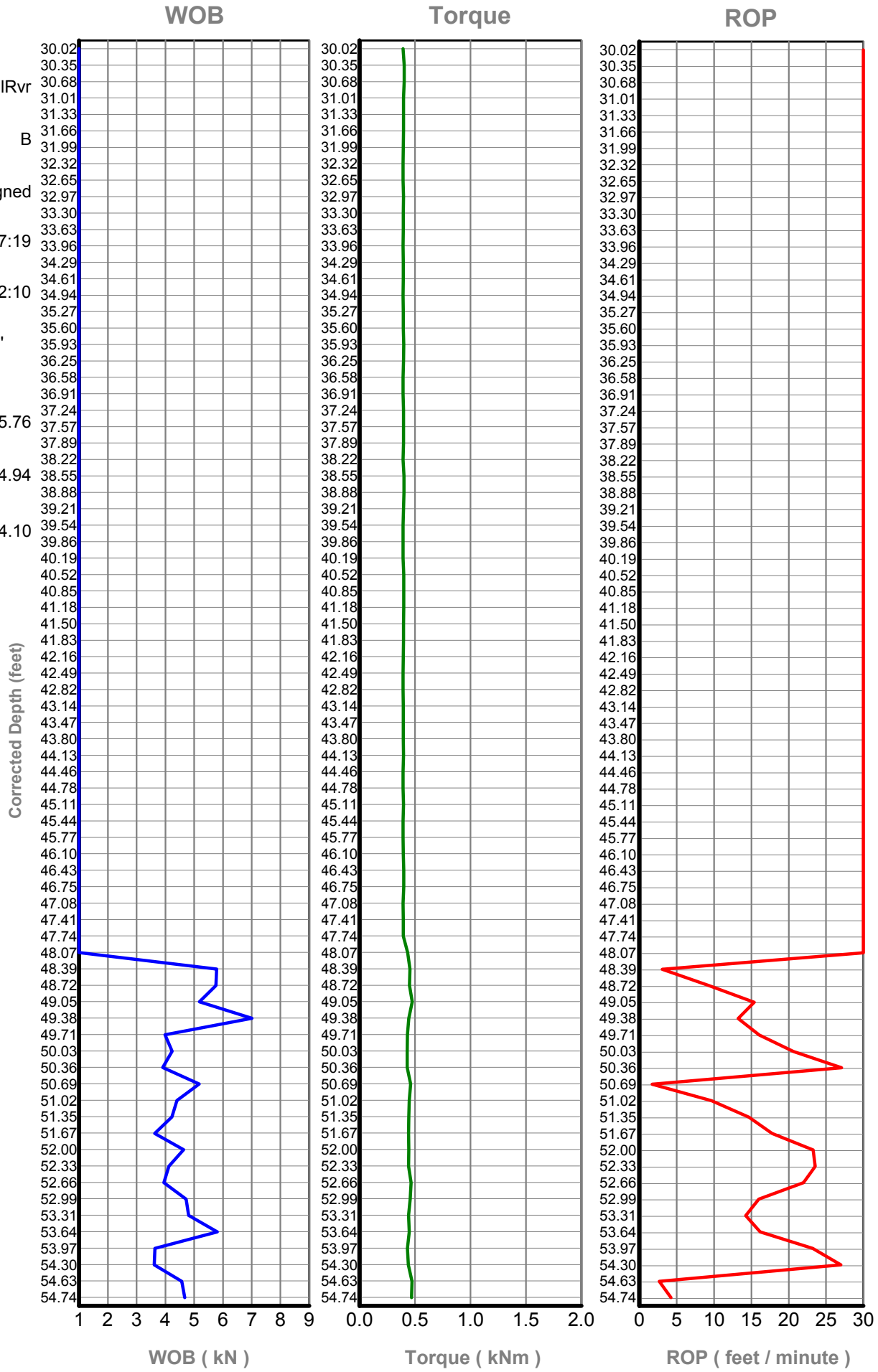
**End Date:**
4/30/2015 20:02:10

**Operator Note:**
'4.1 3.8b Auto Complete'

**Northing:**
360,245.76

**Easting:**
243,404.94

**Tide (feet):**
4.10



## Hole: L189 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 19:59:20 | 34.12 | 30.02 | 925 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 19:59:21 | 34.45 | 30.35 | 925 | 1.14 | 0.29 | 50.6 |
| 4/30/2015 19:59:21 | 34.78 | 30.68 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:21 | 35.11 | 31.01 | 919 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 19:59:22 | 35.43 | 31.33 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 19:59:22 | 35.76 | 31.66 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 19:59:22 | 36.09 | 31.99 | 906 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 19:59:23 | 36.42 | 32.32 | 906 | 1.14 | 0.29 | 49.5 |
| 4/30/2015 19:59:23 | 36.75 | 32.65 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 19:59:24 | 37.07 | 32.97 | 911 | 1.14 | 0.29 | 49.8 |
| 4/30/2015 19:59:24 | 37.40 | 33.30 | 919 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 19:59:24 | 37.73 | 33.63 | 914 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:25 | 38.06 | 33.96 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 19:59:25 | 38.39 | 34.29 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 19:59:25 | 38.71 | 34.61 | 934 | 1.14 | 0.29 | 51.1 |
| 4/30/2015 19:59:26 | 39.04 | 34.94 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:26 | 39.37 | 35.27 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 19:59:27 | 39.70 | 35.60 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 19:59:27 | 40.03 | 35.93 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:27 | 40.35 | 36.25 | 919 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 19:59:28 | 40.68 | 36.58 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 19:59:28 | 41.01 | 36.91 | 916 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 19:59:28 | 41.34 | 37.24 | 906 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:29 | 41.67 | 37.57 | 906 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:29 | 41.99 | 37.89 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:30 | 42.32 | 38.22 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:30 | 42.65 | 38.55 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:30 | 42.98 | 38.88 | 912 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 19:59:31 | 43.31 | 39.21 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:32 | 43.64 | 39.54 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:32 | 43.96 | 39.86 | 920 | 1.14 | 0.29 | 50.3 |
| 4/30/2015 19:59:32 | 44.29 | 40.19 | 917 | 1.14 | 0.29 | 50.1 |
| 4/30/2015 19:59:33 | 44.62 | 40.52 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:33 | 44.95 | 40.85 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:33 | 45.28 | 41.18 | 912 | 1.14 | 0.29 | 49.9 |
| 4/30/2015 19:59:34 | 45.60 | 41.50 | 918 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 19:59:34 | 45.93 | 41.83 | 918 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 19:59:35 | 46.26 | 42.16 | 918 | 1.14 | 0.29 | 50.2 |
| 4/30/2015 19:59:35 | 46.59 | 42.49 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:35 | 46.92 | 42.82 | 907 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:36 | 47.24 | 43.14 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 19:59:36 | 47.57 | 43.47 | 924 | 1.14 | 0.29 | 50.5 |
| 4/30/2015 19:59:36 | 47.90 | 43.80 | 921 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:37 | 48.23 | 44.13 | 903 | 1.14 | 0.29 | 49.4 |
| 4/30/2015 19:59:37 | 48.56 | 44.46 | 903 | 1.14 | 0.29 | 49.4 |
| 4/30/2015 19:59:38 | 48.88 | 44.78 | 903 | 1.14 | 0.29 | 49.4 |
| 4/30/2015 19:59:38 | 49.21 | 45.11 | 908 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:38 | 49.54 | 45.44 | 908 | 1.14 | 0.29 | 49.6 |
| 4/30/2015 19:59:39 | 49.87 | 45.77 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:39 | 50.20 | 46.10 | 922 | 1.14 | 0.29 | 50.4 |
| 4/30/2015 19:59:39 | 50.53 | 46.43 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:40 | 50.85 | 46.75 | 915 | 1.14 | 0.29 | 50.0 |
| 4/30/2015 19:59:52 | 51.18 | 47.08 | 18 | 1.14 | 0.29 | 1.0 |
| 4/30/2015 19:59:53 | 51.51 | 47.41 | 141 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 19:59:54 | 51.84 | 47.74 | 370 | 1.14 | 0.29 | 20.2 |
| 4/30/2015 19:59:55 | 52.17 | 48.07 | 470 | 1.14 | 0.29 | 25.7 |
| 4/30/2015 19:59:58 | 52.49 | 48.39 | 47 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 19:59:59 | 52.82 | 48.72 | 165 | 1.14 | 0.29 | 9.0 |
| 4/30/2015 19:59:59 | 53.15 | 49.05 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 20:00:00 | 53.48 | 49.38 | 514 | 1.14 | 0.29 | 28.1 |
| 4/30/2015 20:00:12 | 53.81 | 49.71 | 14 | 1.14 | 0.29 | 0.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 20:00:13 | 54.13 | 50.03 | 202 | 1.14 | 0.29 | 11.1 |
| 4/30/2015 | 20:00:13 | 54.46 | 50.36 | 303 | 1.14 | 0.29 | 16.5 |
| 4/30/2015 | 20:00:31 | 54.79 | 50.69 | 50 | 1.14 | 0.29 | 2.7 |
| 4/30/2015 | 20:00:34 | 55.12 | 51.02 | 138 | 1.14 | 0.29 | 7.5 |
| 4/30/2015 | 20:00:35 | 55.45 | 51.35 | 140 | 1.14 | 0.29 | 7.7 |
| 4/30/2015 | 20:00:37 | 55.77 | 51.67 | 172 | 1.14 | 0.29 | 9.4 |
| 4/30/2015 | 20:00:43 | 56.10 | 52.00 | 62 | 1.14 | 0.29 | 3.4 |
| 4/30/2015 | 20:00:47 | 56.43 | 52.33 | 81 | 1.14 | 0.29 | 4.4 |
| 4/30/2015 | 20:00:57 | 56.76 | 52.66 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 20:01:08 | 57.09 | 52.99 | 30 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 20:01:20 | 57.41 | 53.31 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 | 20:01:32 | 57.74 | 53.64 | 32 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 | 20:01:34 | 57.81 | 53.71 | 35 | 1.14 | 0.29 | 1.9 |

## L189 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 19:58:06

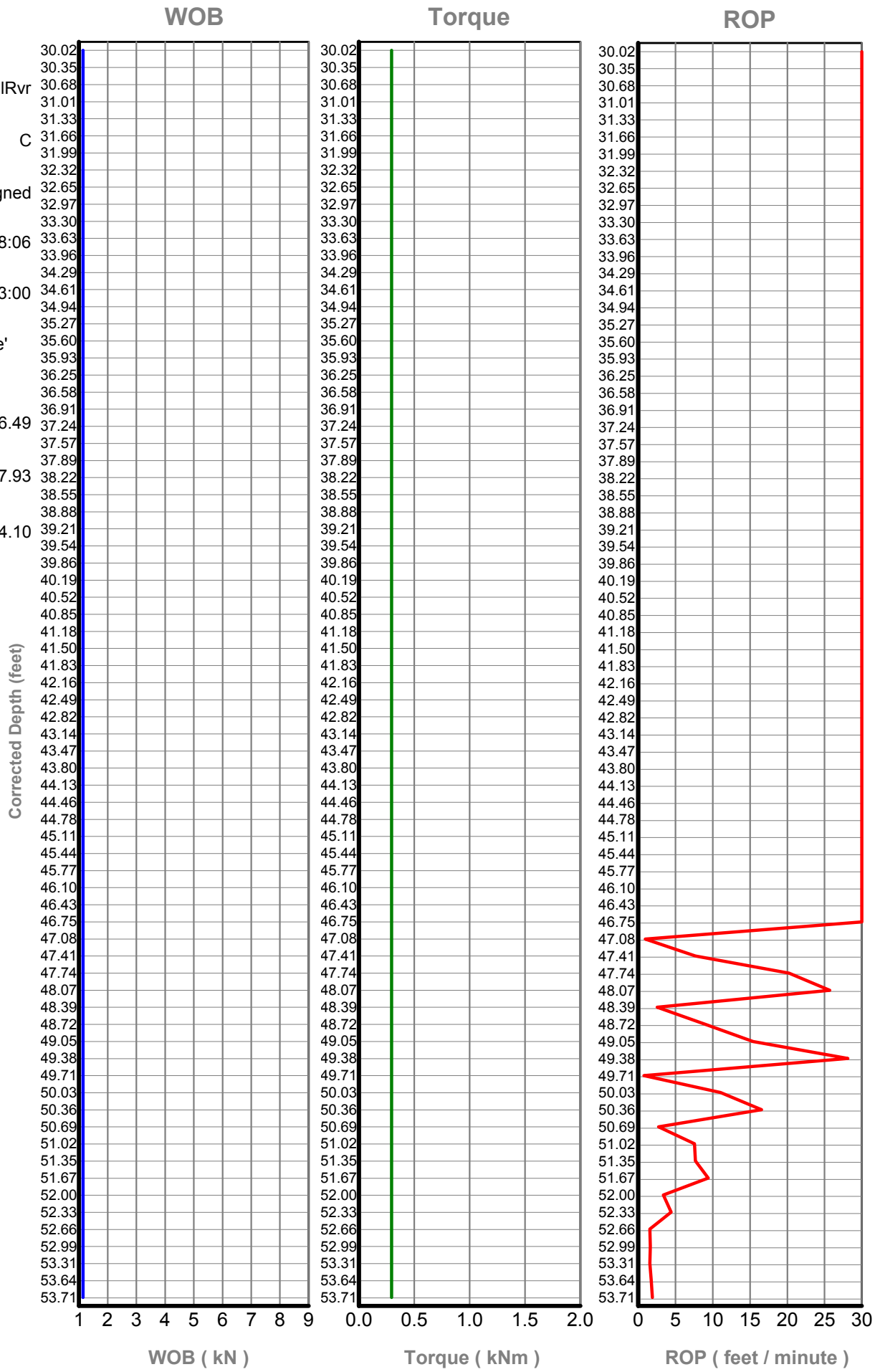
**End Date:**
4/30/2015 20:03:00

**Operator Note:**
'4.1 3.8 c Auto Complete'

**Northing:**
360,286.49

**Easting:**
243,467.93

**Tide (feet):**
4.10



## Hole: L19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:46:46 | 33.79 | 30.19 | 704 | 1.11 | 0.21 | 38.5 |
| 5/1/2015 2:46:46 | 34.12 | 30.52 | 697 | 1.12 | 0.20 | 38.1 |
| 5/1/2015 2:46:47 | 34.45 | 30.85 | 697 | 1.11 | 0.20 | 38.1 |
| 5/1/2015 2:46:47 | 34.78 | 31.18 | 697 | 1.11 | 0.20 | 38.1 |
| 5/1/2015 2:46:47 | 35.11 | 31.51 | 703 | 1.12 | 0.20 | 38.4 |
| 5/1/2015 2:46:48 | 35.43 | 31.83 | 703 | 1.12 | 0.20 | 38.4 |
| 5/1/2015 2:46:48 | 35.76 | 32.16 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 2:46:49 | 36.09 | 32.49 | 714 | 1.11 | 0.20 | 39.0 |
| 5/1/2015 2:46:49 | 36.42 | 32.82 | 710 | 1.11 | 0.20 | 38.8 |
| 5/1/2015 2:46:50 | 36.75 | 33.15 | 734 | 1.12 | 0.21 | 40.1 |
| 5/1/2015 2:46:50 | 37.07 | 33.47 | 742 | 1.05 | 0.21 | 40.6 |
| 5/1/2015 2:46:51 | 37.40 | 33.80 | 733 | 1.11 | 0.20 | 40.1 |
| 5/1/2015 2:46:51 | 37.73 | 34.13 | 732 | 1.11 | 0.20 | 40.1 |
| 5/1/2015 2:46:52 | 38.06 | 34.46 | 731 | 1.11 | 0.21 | 40.0 |
| 5/1/2015 2:46:53 | 38.39 | 34.79 | 707 | 1.11 | 0.20 | 38.7 |
| 5/1/2015 2:46:53 | 38.71 | 35.11 | 707 | 1.11 | 0.20 | 38.7 |
| 5/1/2015 2:46:54 | 39.04 | 35.44 | 716 | 1.11 | 0.20 | 39.1 |
| 5/1/2015 2:46:54 | 39.37 | 35.77 | 712 | 1.11 | 0.20 | 38.9 |
| 5/1/2015 2:46:55 | 39.70 | 36.10 | 712 | 1.11 | 0.20 | 38.9 |
| 5/1/2015 2:46:55 | 40.03 | 36.43 | 714 | 1.11 | 0.20 | 39.0 |
| 5/1/2015 2:46:56 | 40.35 | 36.75 | 708 | 1.13 | 0.20 | 38.7 |
| 5/1/2015 2:46:56 | 40.68 | 37.08 | 716 | 1.12 | 0.20 | 39.1 |
| 5/1/2015 2:46:57 | 41.01 | 37.41 | 716 | 1.12 | 0.20 | 39.1 |
| 5/1/2015 2:46:57 | 41.34 | 37.74 | 707 | 1.11 | 0.20 | 38.7 |
| 5/1/2015 2:46:57 | 41.67 | 38.07 | 707 | 1.11 | 0.20 | 38.7 |
| 5/1/2015 2:46:58 | 41.99 | 38.39 | 728 | 1.11 | 0.21 | 39.8 |
| 5/1/2015 2:46:58 | 42.32 | 38.72 | 706 | 1.13 | 0.20 | 38.6 |
| 5/1/2015 2:46:59 | 42.65 | 39.05 | 706 | 1.11 | 0.21 | 38.6 |
| 5/1/2015 2:46:59 | 42.98 | 39.38 | 712 | 1.11 | 0.20 | 38.9 |
| 5/1/2015 2:47:00 | 43.31 | 39.71 | 723 | 1.11 | 0.20 | 39.5 |
| 5/1/2015 2:47:00 | 43.64 | 40.04 | 707 | 1.11 | 0.20 | 38.7 |
| 5/1/2015 2:47:01 | 43.96 | 40.36 | 707 | 1.13 | 0.20 | 38.7 |
| 5/1/2015 2:47:01 | 44.29 | 40.69 | 705 | 1.11 | 0.20 | 38.5 |
| 5/1/2015 2:47:02 | 44.62 | 41.02 | 723 | 1.11 | 0.20 | 39.5 |
| 5/1/2015 2:47:03 | 44.95 | 41.35 | 723 | 1.11 | 0.20 | 39.5 |
| 5/1/2015 2:47:03 | 45.28 | 41.68 | 698 | 1.12 | 0.20 | 38.2 |
| 5/1/2015 2:47:04 | 45.60 | 42.00 | 698 | 1.11 | 0.20 | 38.2 |
| 5/1/2015 2:47:04 | 45.93 | 42.33 | 718 | 1.12 | 0.20 | 39.3 |
| 5/1/2015 2:47:05 | 46.26 | 42.66 | 718 | 1.12 | 0.20 | 39.3 |
| 5/1/2015 2:47:05 | 46.59 | 42.99 | 714 | 1.12 | 0.20 | 39.1 |
| 5/1/2015 2:47:06 | 46.92 | 43.32 | 715 | 1.17 | 0.20 | 39.1 |
| 5/1/2015 2:47:06 | 47.24 | 43.64 | 688 | 1.13 | 0.21 | 37.6 |
| 5/1/2015 2:47:07 | 47.57 | 43.97 | 688 | 1.12 | 0.20 | 37.6 |
| 5/1/2015 2:47:07 | 47.90 | 44.30 | 710 | 1.12 | 0.20 | 38.8 |
| 5/1/2015 2:47:08 | 48.23 | 44.63 | 694 | 1.11 | 0.21 | 38.0 |
| 5/1/2015 2:47:08 | 48.56 | 44.96 | 694 | 1.11 | 0.21 | 38.0 |
| 5/1/2015 2:47:08 | 48.88 | 45.28 | 694 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 2:47:09 | 49.21 | 45.61 | 707 | 1.11 | 0.21 | 38.6 |
| 5/1/2015 2:47:09 | 49.54 | 45.94 | 708 | 1.29 | 0.20 | 38.7 |
| 5/1/2015 2:47:10 | 49.87 | 46.27 | 709 | 1.10 | 0.20 | 38.8 |
| 5/1/2015 2:47:10 | 50.20 | 46.60 | 716 | 1.12 | 0.21 | 39.2 |
| 5/1/2015 2:47:11 | 50.53 | 46.93 | 709 | 1.11 | 0.21 | 38.8 |
| 5/1/2015 2:47:11 | 50.85 | 47.25 | 709 | 1.11 | 0.20 | 38.8 |
| 5/1/2015 2:47:12 | 51.18 | 47.58 | 701 | 1.05 | 0.20 | 38.3 |
| 5/1/2015 2:47:13 | 51.51 | 47.91 | 644 | 1.19 | 0.20 | 35.2 |
| 5/1/2015 2:48:12 | 51.84 | 48.24 | 55 | 1.09 | 0.69 | 3.0 |
| 5/1/2015 2:48:12 | 52.17 | 48.57 | 178 | 1.11 | 0.77 | 9.7 |
| 5/1/2015 2:48:13 | 52.49 | 48.89 | 278 | 1.13 | 0.82 | 15.2 |
| 5/1/2015 2:48:14 | 52.82 | 49.22 | 366 | 1.11 | 0.80 | 20.0 |
| 5/1/2015 2:48:15 | 53.15 | 49.55 | 447 | 1.11 | 0.79 | 24.4 |
| 5/1/2015 2:48:16 | 53.48 | 49.88 | 471 | 1.10 | 0.80 | 25.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:48:17 | 53.81 | 50.21 | 430 | 1.03 | 1.69 | 23.5 |
| 5/1/2015 | 2:48:19 | 54.13 | 50.53 | 317 | 1.14 | 1.04 | 17.3 |
| 5/1/2015 | 2:48:24 | 54.46 | 50.86 | 36 | 1.20 | 1.33 | 2.0 |
| 5/1/2015 | 2:48:28 | 54.79 | 51.19 | 123 | 1.07 | 1.57 | 6.7 |
| 5/1/2015 | 2:48:49 | 55.12 | 51.52 | 67 | 1.06 | 1.65 | 3.7 |
| 5/1/2015 | 2:48:54 | 55.45 | 51.85 | 55 | 1.16 | 1.23 | 3.0 |
| 5/1/2015 | 2:49:05 | 55.77 | 52.17 | 0 | 1.23 | 1.42 | 0.0 |
| 5/1/2015 | 2:49:06 | 56.10 | 52.50 | 56 | 1.09 | 1.38 | 3.1 |
| 5/1/2015 | 2:49:13 | 56.43 | 52.83 | 57 | 1.11 | 1.20 | 3.1 |
| 5/1/2015 | 2:49:14 | 56.76 | 53.16 | 103 | 1.16 | 1.13 | 5.7 |
| 5/1/2015 | 2:49:15 | 57.09 | 53.49 | 178 | 1.10 | 0.88 | 9.7 |
| 5/1/2015 | 2:49:16 | 57.41 | 53.81 | 310 | 1.05 | 1.34 | 16.9 |
| 5/1/2015 | 2:49:17 | 57.74 | 54.14 | 343 | 1.05 | 1.00 | 18.8 |
| 5/1/2015 | 2:49:19 | 58.07 | 54.47 | 312 | 1.09 | 1.23 | 17.1 |
| 5/1/2015 | 2:49:20 | 58.40 | 54.80 | 285 | 1.05 | 1.24 | 15.6 |
| 5/1/2015 | 2:49:21 | 58.73 | 55.13 | 275 | 1.01 | 0.90 | 15.0 |
| 5/1/2015 | 2:49:22 | 59.06 | 55.46 | 307 | 1.11 | 1.08 | 16.8 |
| 5/1/2015 | 2:49:22 | 59.13 | 55.53 | 307 | 1.11 | 1.08 | 16.8 |

## L19 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:44:16

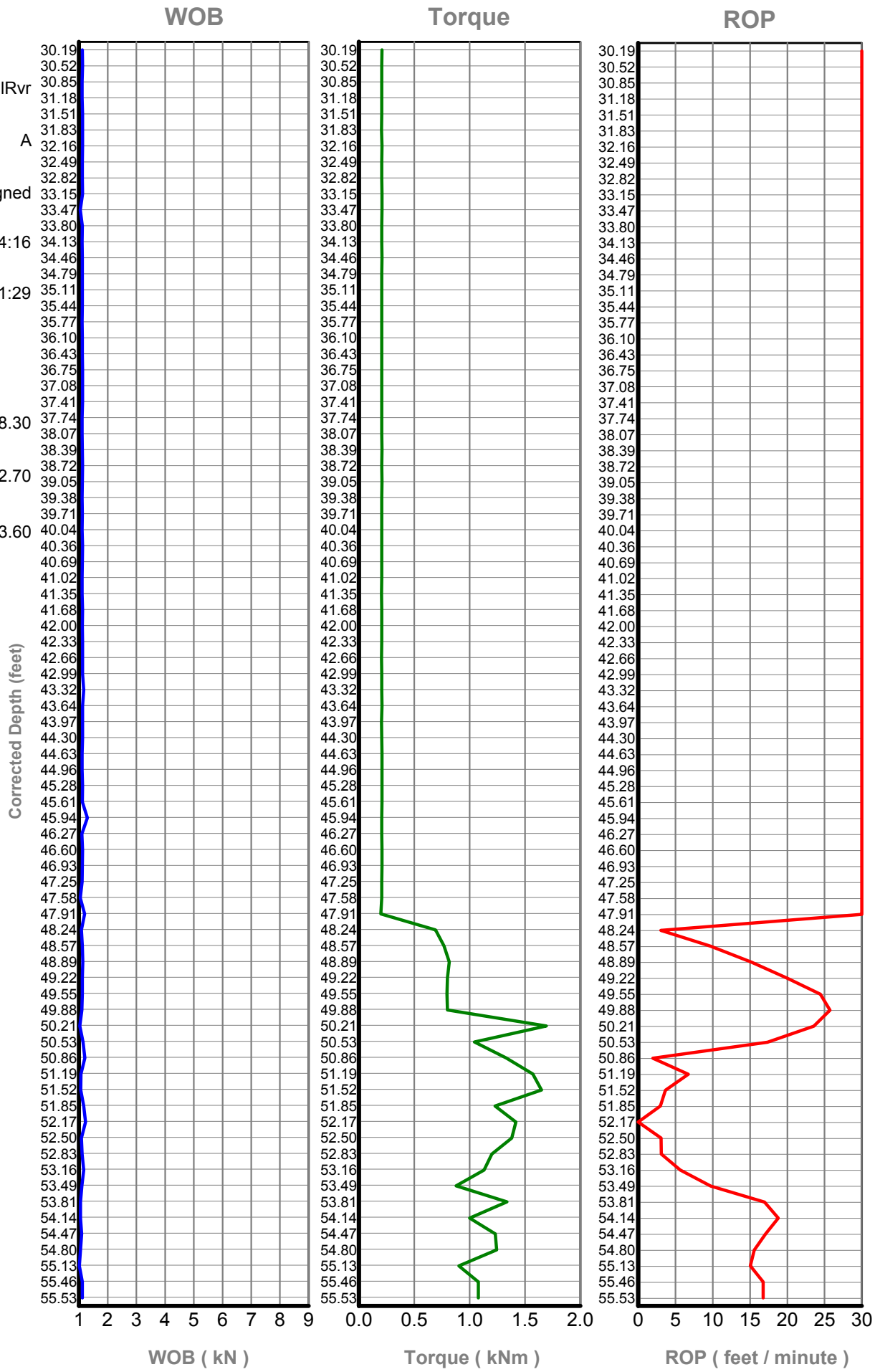
**End Date:**
5/1/2015 2:51:29

**Operator Note:**
'3.6 4 a Auto Complete'

**Northing:**
360,178.30

**Easting:**
242,292.70

**Tide (feet):**
3.60



## Hole: L190 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:46:38 | 32.15 | 30.25 | 1,166 | 1.72 | 0.79 | 63.7 |
| 5/1/2015 4:46:39 | 32.48 | 30.58 | 1,166 | 1.72 | 0.79 | 63.7 |
| 5/1/2015 4:46:39 | 32.81 | 30.91 | 1,173 | 1.72 | 0.79 | 64.1 |
| 5/1/2015 4:46:39 | 33.14 | 31.24 | 1,165 | 1.72 | 0.79 | 63.7 |
| 5/1/2015 4:46:40 | 33.46 | 31.56 | 1,165 | 1.72 | 0.79 | 63.7 |
| 5/1/2015 4:46:40 | 33.79 | 31.89 | 1,165 | 1.74 | 0.80 | 63.7 |
| 5/1/2015 4:46:40 | 34.12 | 32.22 | 1,165 | 1.74 | 0.80 | 63.7 |
| 5/1/2015 4:46:40 | 34.45 | 32.55 | 1,145 | 1.73 | 0.79 | 62.6 |
| 5/1/2015 4:46:41 | 34.78 | 32.88 | 1,155 | 1.72 | 0.79 | 63.2 |
| 5/1/2015 4:46:41 | 35.11 | 33.21 | 1,155 | 1.72 | 0.79 | 63.2 |
| 5/1/2015 4:46:41 | 35.43 | 33.53 | 1,150 | 1.72 | 0.80 | 62.9 |
| 5/1/2015 4:46:42 | 35.76 | 33.86 | 1,150 | 1.72 | 0.80 | 62.9 |
| 5/1/2015 4:46:42 | 36.09 | 34.19 | 1,150 | 1.76 | 0.79 | 62.9 |
| 5/1/2015 4:46:42 | 36.42 | 34.52 | 1,150 | 1.70 | 0.78 | 62.9 |
| 5/1/2015 4:46:43 | 36.75 | 34.85 | 1,150 | 1.70 | 0.78 | 62.9 |
| 5/1/2015 4:46:43 | 37.07 | 35.17 | 1,153 | 1.72 | 0.80 | 63.1 |
| 5/1/2015 4:46:43 | 37.40 | 35.50 | 1,153 | 1.72 | 0.80 | 63.1 |
| 5/1/2015 4:46:43 | 37.73 | 35.83 | 1,156 | 1.72 | 0.80 | 63.2 |
| 5/1/2015 4:46:44 | 38.06 | 36.16 | 1,156 | 1.72 | 0.78 | 63.2 |
| 5/1/2015 4:46:44 | 38.39 | 36.49 | 1,156 | 1.72 | 0.78 | 63.2 |
| 5/1/2015 4:46:44 | 38.71 | 36.81 | 1,154 | 1.72 | 0.80 | 63.1 |
| 5/1/2015 4:46:45 | 39.04 | 37.14 | 1,154 | 1.72 | 0.80 | 63.1 |
| 5/1/2015 4:46:45 | 39.37 | 37.47 | 1,166 | 1.74 | 0.80 | 63.8 |
| 5/1/2015 4:46:45 | 39.70 | 37.80 | 1,166 | 1.74 | 0.80 | 63.8 |
| 5/1/2015 4:46:45 | 40.03 | 38.13 | 1,156 | 1.72 | 0.79 | 63.2 |
| 5/1/2015 4:46:46 | 40.35 | 38.45 | 1,153 | 1.73 | 0.80 | 63.0 |
| 5/1/2015 4:46:47 | 40.68 | 38.78 | 1,153 | 1.73 | 0.80 | 63.0 |
| 5/1/2015 4:46:47 | 41.01 | 39.11 | 1,170 | 1.72 | 0.78 | 64.0 |
| 5/1/2015 4:46:47 | 41.34 | 39.44 | 1,170 | 1.72 | 0.78 | 64.0 |
| 5/1/2015 4:46:47 | 41.67 | 39.77 | 1,162 | 1.72 | 0.78 | 63.5 |
| 5/1/2015 4:46:48 | 41.99 | 40.09 | 1,156 | 1.72 | 0.79 | 63.2 |
| 5/1/2015 4:46:48 | 42.32 | 40.42 | 1,156 | 1.72 | 0.79 | 63.2 |
| 5/1/2015 4:46:48 | 42.65 | 40.75 | 1,156 | 1.75 | 0.79 | 63.2 |
| 5/1/2015 4:46:49 | 42.98 | 41.08 | 1,156 | 1.75 | 0.79 | 63.2 |
| 5/1/2015 4:46:49 | 43.31 | 41.41 | 1,156 | 1.74 | 0.78 | 63.2 |
| 5/1/2015 4:46:49 | 43.64 | 41.74 | 1,159 | 1.72 | 0.24 | 63.4 |
| 5/1/2015 4:46:50 | 43.96 | 42.06 | 1,159 | 1.72 | 0.24 | 63.4 |
| 5/1/2015 4:46:50 | 44.29 | 42.39 | 1,159 | 1.70 | 0.24 | 63.4 |
| 5/1/2015 4:46:50 | 44.62 | 42.72 | 1,159 | 1.70 | 0.24 | 63.4 |
| 5/1/2015 4:46:50 | 44.95 | 43.05 | 1,162 | 1.72 | 0.24 | 63.5 |
| 5/1/2015 4:46:51 | 45.28 | 43.38 | 1,165 | 1.73 | 0.24 | 63.7 |
| 5/1/2015 4:46:51 | 45.60 | 43.70 | 1,165 | 1.73 | 0.24 | 63.7 |
| 5/1/2015 4:46:51 | 45.93 | 44.03 | 1,175 | 1.72 | 0.24 | 64.2 |
| 5/1/2015 4:46:52 | 46.26 | 44.36 | 1,175 | 1.72 | 0.24 | 64.2 |
| 5/1/2015 4:46:52 | 46.59 | 44.69 | 1,168 | 1.70 | 0.24 | 63.9 |
| 5/1/2015 4:46:52 | 46.92 | 45.02 | 1,168 | 1.70 | 0.24 | 63.9 |
| 5/1/2015 4:46:52 | 47.24 | 45.34 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:53 | 47.57 | 45.67 | 1,165 | 1.73 | 0.24 | 63.7 |
| 5/1/2015 4:46:53 | 47.90 | 46.00 | 1,165 | 1.73 | 0.24 | 63.7 |
| 5/1/2015 4:46:53 | 48.23 | 46.33 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:54 | 48.56 | 46.66 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:54 | 48.88 | 46.98 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:54 | 49.21 | 47.31 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:55 | 49.54 | 47.64 | 1,165 | 1.72 | 0.24 | 63.7 |
| 5/1/2015 4:46:55 | 49.87 | 47.97 | 1,165 | 1.74 | 0.24 | 63.7 |
| 5/1/2015 4:46:55 | 50.20 | 48.30 | 1,165 | 1.74 | 0.24 | 63.7 |
| 5/1/2015 4:46:55 | 50.53 | 48.63 | 1,168 | 1.73 | 0.24 | 63.9 |
| 5/1/2015 4:46:56 | 50.85 | 48.95 | 1,162 | 1.07 | 0.17 | 63.6 |
| 5/1/2015 4:47:09 | 51.18 | 49.28 | 49 | 1.09 | 1.25 | 2.7 |
| 5/1/2015 4:47:13 | 51.51 | 49.61 | 53 | 1.03 | 0.92 | 2.9 |
| 5/1/2015 4:47:14 | 51.84 | 49.94 | 170 | 1.11 | 1.22 | 9.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:47:16 | 52.17 | 50.27 | 292 | 1.05 | 1.82 | 16.0 |
| 5/1/2015 | 4:47:17 | 52.49 | 50.59 | 317 | 1.10 | 1.42 | 17.3 |
| 5/1/2015 | 4:47:18 | 52.82 | 50.92 | 344 | 1.05 | 1.40 | 18.8 |
| 5/1/2015 | 4:47:19 | 53.15 | 51.25 | 371 | 1.10 | 1.17 | 20.3 |
| 5/1/2015 | 4:47:20 | 53.48 | 51.58 | 340 | 1.13 | 1.15 | 18.6 |
| 5/1/2015 | 4:47:21 | 53.81 | 51.91 | 354 | 1.09 | 1.06 | 19.3 |
| 5/1/2015 | 4:47:21 | 54.13 | 52.23 | 365 | 1.01 | 0.89 | 20.0 |
| 5/1/2015 | 4:47:22 | 54.46 | 52.56 | 409 | 1.06 | 0.89 | 22.4 |
| 5/1/2015 | 4:47:34 | 54.79 | 52.89 | 0 | 1.11 | 1.15 | 0.0 |
| 5/1/2015 | 4:47:35 | 55.12 | 53.22 | 120 | 1.07 | 1.13 | 6.6 |
| 5/1/2015 | 4:47:36 | 55.45 | 53.55 | 194 | 1.17 | 1.49 | 10.6 |
| 5/1/2015 | 4:47:37 | 55.77 | 53.87 | 327 | 1.10 | 1.07 | 17.9 |
| 5/1/2015 | 4:47:38 | 56.10 | 54.20 | 335 | 1.05 | 1.05 | 18.3 |
| 5/1/2015 | 4:47:40 | 56.43 | 54.53 | 301 | 1.02 | 1.12 | 16.5 |
| 5/1/2015 | 4:47:41 | 56.76 | 54.86 | 280 | 0.95 | 1.42 | 15.3 |
| 5/1/2015 | 4:47:56 | 57.09 | 55.19 | 4 | 1.80 | 0.88 | 0.2 |
| 5/1/2015 | 4:47:57 | 57.41 | 55.51 | 70 | 1.19 | 1.32 | 3.8 |

## L190 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:44:12

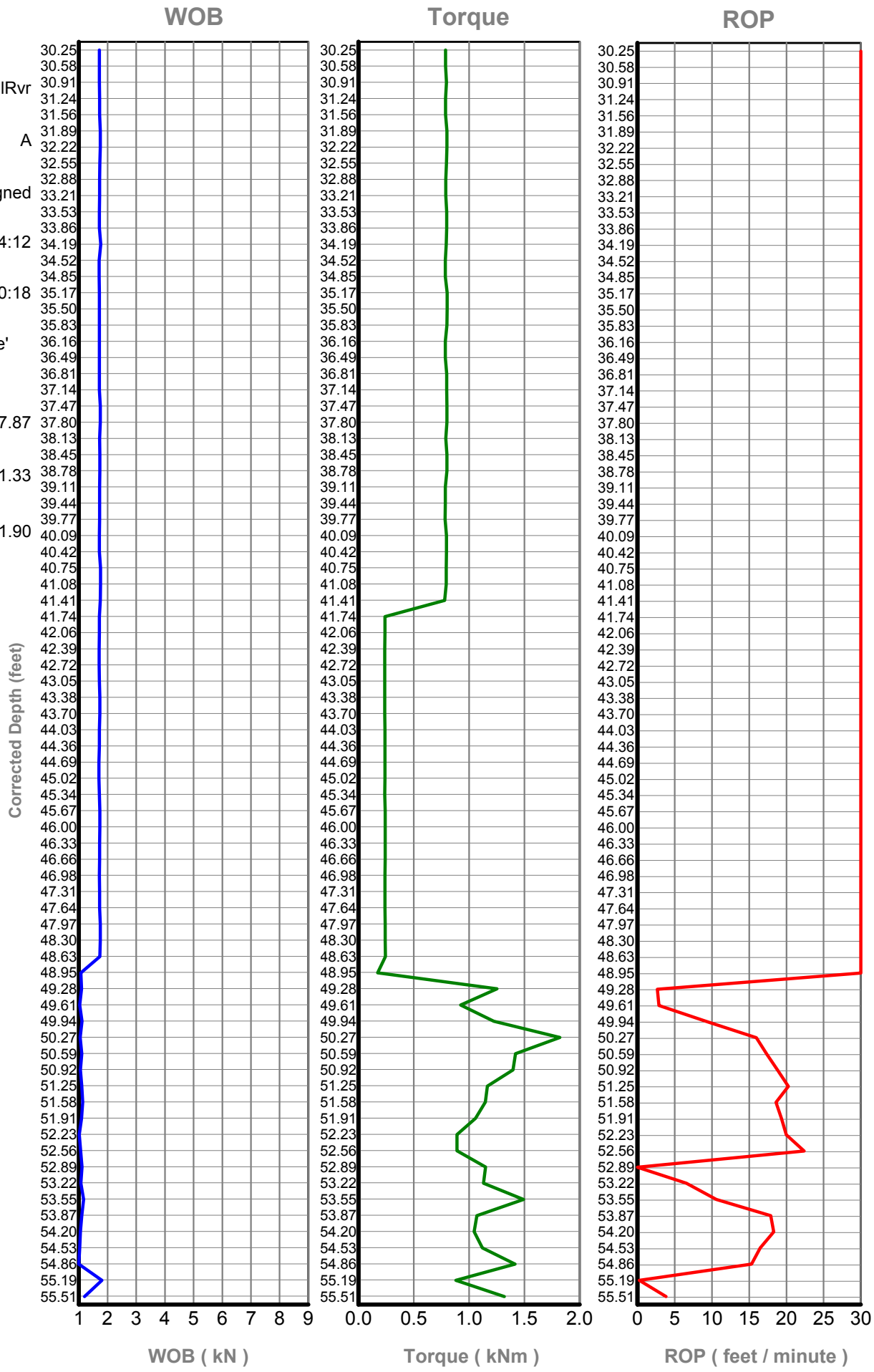
**End Date:**
5/1/2015 4:50:18

**Operator Note:**
'1.9 2.1 a Auto Complete'

**Northing:**
359,667.87

**Easting:**
242,611.33

**Tide (feet):**
1.90



## Hole: L191 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:46:24 | 32.15 | 30.25 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 4:46:24 | 32.48 | 30.58 | 1,124 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 4:46:25 | 32.81 | 30.91 | 1,140 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 4:46:25 | 33.14 | 31.24 | 1,140 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 4:46:25 | 33.46 | 31.56 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:46:26 | 33.79 | 31.89 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 4:46:26 | 34.12 | 32.22 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 4:46:27 | 34.45 | 32.55 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 4:46:27 | 34.78 | 32.88 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 4:46:27 | 35.11 | 33.21 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 4:46:28 | 35.43 | 33.53 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 4:46:28 | 35.76 | 33.86 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 4:46:28 | 36.09 | 34.19 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 4:46:29 | 36.42 | 34.52 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 4:46:29 | 36.75 | 34.85 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 4:46:29 | 37.07 | 35.17 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 4:46:30 | 37.40 | 35.50 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 4:46:30 | 37.73 | 35.83 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 4:46:30 | 38.06 | 36.16 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 4:46:30 | 38.39 | 36.49 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 4:46:31 | 38.71 | 36.81 | 1,136 | 0.32 | 0.39 | 62.1 |
| 5/1/2015 4:46:31 | 39.04 | 37.14 | 1,136 | 0.32 | 0.39 | 62.1 |
| 5/1/2015 4:46:31 | 39.37 | 37.47 | 1,141 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 4:46:32 | 39.70 | 37.80 | 1,141 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 4:46:32 | 40.03 | 38.13 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 4:46:32 | 40.35 | 38.45 | 1,149 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 4:46:33 | 40.68 | 38.78 | 1,149 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 4:46:33 | 41.01 | 39.11 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 4:46:33 | 41.34 | 39.44 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 4:46:33 | 41.67 | 39.77 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 4:46:34 | 41.99 | 40.09 | 1,140 | 0.29 | 0.37 | 62.3 |
| 5/1/2015 4:46:34 | 42.32 | 40.42 | 1,140 | 0.29 | 0.37 | 62.3 |
| 5/1/2015 4:46:34 | 42.65 | 40.75 | 1,140 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 4:46:35 | 42.98 | 41.08 | 1,140 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 4:46:35 | 43.31 | 41.41 | 1,136 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 4:46:35 | 43.64 | 41.74 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 4:46:36 | 43.96 | 42.06 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 4:46:36 | 44.29 | 42.39 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/1/2015 4:46:36 | 44.62 | 42.72 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/1/2015 4:46:36 | 44.95 | 43.05 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 4:46:37 | 45.28 | 43.38 | 1,138 | 0.31 | 0.37 | 62.2 |
| 5/1/2015 4:46:38 | 45.60 | 43.70 | 1,138 | 0.31 | 0.37 | 62.2 |
| 5/1/2015 4:46:38 | 45.93 | 44.03 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 4:46:38 | 46.26 | 44.36 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 4:46:38 | 46.59 | 44.69 | 1,142 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 4:46:39 | 46.92 | 45.02 | 1,136 | 0.31 | 0.38 | 62.1 |
| 5/1/2015 4:46:39 | 47.24 | 45.34 | 1,136 | 0.31 | 0.38 | 62.1 |
| 5/1/2015 4:46:39 | 47.57 | 45.67 | 1,135 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 4:46:40 | 47.90 | 46.00 | 1,135 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 4:46:40 | 48.23 | 46.33 | 1,155 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 4:46:40 | 48.56 | 46.66 | 1,146 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 4:46:41 | 48.88 | 46.98 | 1,146 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 4:46:41 | 49.21 | 47.31 | 1,146 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 4:46:41 | 49.54 | 47.64 | 1,146 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 4:46:41 | 49.87 | 47.97 | 1,146 | 0.31 | 0.39 | 62.7 |
| 5/1/2015 4:46:42 | 50.20 | 48.30 | 1,109 | 0.31 | 0.40 | 60.7 |
| 5/1/2015 4:46:42 | 50.53 | 48.63 | 1,109 | 0.31 | 0.40 | 60.7 |
| 5/1/2015 4:46:42 | 50.85 | 48.95 | 1,055 | 0.30 | 0.39 | 57.7 |
| 5/1/2015 4:46:43 | 51.18 | 49.28 | 1,006 | 0.31 | 0.40 | 55.0 |
| 5/1/2015 4:46:43 | 51.51 | 49.61 | 951 | 0.31 | 0.39 | 52.0 |
| 5/1/2015 4:46:44 | 51.84 | 49.94 | 916 | 0.31 | 0.39 | 50.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:46:44 | 52.17 | 50.27 | 916 | 0.31 | 0.39 | 50.1 |
| 5/1/2015 | 4:46:44 | 52.49 | 50.59 | 899 | 0.31 | 0.40 | 49.2 |
| 5/1/2015 | 4:46:45 | 52.82 | 50.92 | 890 | 0.31 | 0.40 | 48.7 |
| 5/1/2015 | 4:46:45 | 53.15 | 51.25 | 887 | 0.31 | 0.40 | 48.5 |
| 5/1/2015 | 4:46:46 | 53.48 | 51.58 | 887 | 0.31 | 0.40 | 48.5 |
| 5/1/2015 | 4:46:46 | 53.81 | 51.91 | 882 | 0.31 | 0.40 | 48.2 |
| 5/1/2015 | 4:46:46 | 54.13 | 52.23 | 867 | 0.30 | 0.40 | 47.4 |
| 5/1/2015 | 4:46:51 | 54.46 | 52.56 | 40 | 3.67 | 0.44 | 2.2 |
| 5/1/2015 | 4:46:54 | 54.79 | 52.89 | 161 | 4.65 | 0.45 | 8.8 |
| 5/1/2015 | 4:46:58 | 55.12 | 53.22 | 102 | 4.53 | 0.44 | 5.6 |
| 5/1/2015 | 4:46:59 | 55.45 | 53.55 | 201 | 4.21 | 0.45 | 11.0 |
| 5/1/2015 | 4:47:17 | 55.77 | 53.87 | 77 | 3.34 | 0.43 | 4.2 |
| 5/1/2015 | 4:47:18 | 56.10 | 54.20 | 159 | 3.20 | 0.42 | 8.7 |
| 5/1/2015 | 4:47:19 | 56.43 | 54.53 | 350 | 4.29 | 0.43 | 19.2 |
| 5/1/2015 | 4:47:21 | 56.76 | 54.86 | 210 | 4.90 | 0.45 | 11.5 |
| 5/1/2015 | 4:47:23 | 57.09 | 55.19 | 124 | 3.50 | 0.42 | 6.8 |
| 5/1/2015 | 4:47:23 | 57.20 | 55.30 | 124 | 3.50 | 0.42 | 6.8 |

## L191 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:44:56

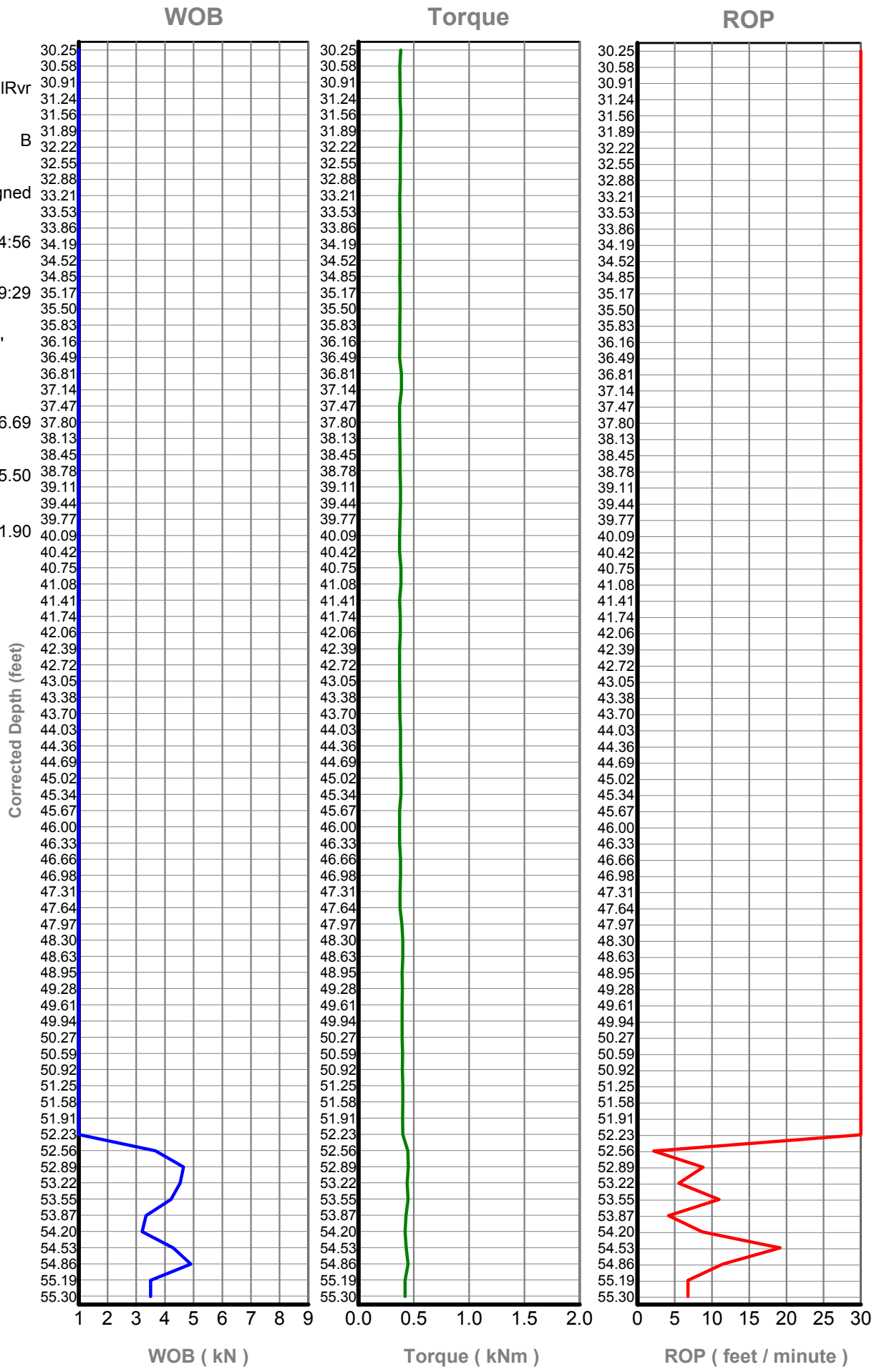
**End Date:**
5/1/2015 4:49:29

**Operator Note:**
'1.9 2.1b Auto Complete'

**Northing:**
359,706.69

**Easting:**
242,675.50

**Tide (feet):**
1.90



## Hole: L192 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 4:44:51 | 32.15 | 30.25 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 4:44:52 | 32.48 | 30.58 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:44:53 | 32.81 | 30.91 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 4:44:53 | 33.14 | 31.24 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 4:44:53 | 33.46 | 31.56 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 4:44:53 | 33.79 | 31.89 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 4:44:54 | 34.12 | 32.22 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:44:54 | 34.45 | 32.55 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:44:54 | 34.78 | 32.88 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:44:55 | 35.11 | 33.21 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:55 | 35.43 | 33.53 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:55 | 35.76 | 33.86 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:44:56 | 36.09 | 34.19 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:56 | 36.42 | 34.52 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:56 | 36.75 | 34.85 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:57 | 37.07 | 35.17 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:57 | 37.40 | 35.50 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:57 | 37.73 | 35.83 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:44:58 | 38.06 | 36.16 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:44:58 | 38.39 | 36.49 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:44:58 | 38.71 | 36.81 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:44:59 | 39.04 | 37.14 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:44:59 | 39.37 | 37.47 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:44:59 | 39.70 | 37.80 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:45:00 | 40.03 | 38.13 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 4:45:00 | 40.35 | 38.45 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 4:45:00 | 40.68 | 38.78 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:45:01 | 41.01 | 39.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:45:01 | 41.34 | 39.44 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:01 | 41.67 | 39.77 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:01 | 41.99 | 40.09 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:02 | 42.32 | 40.42 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:45:02 | 42.65 | 40.75 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:45:02 | 42.98 | 41.08 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 4:45:03 | 43.31 | 41.41 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:03 | 43.64 | 41.74 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:03 | 43.96 | 42.06 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:04 | 44.29 | 42.39 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:05 | 44.62 | 42.72 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 4:45:05 | 44.95 | 43.05 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:45:05 | 45.28 | 43.38 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:45:06 | 45.60 | 43.70 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 4:45:06 | 45.93 | 44.03 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:45:06 | 46.26 | 44.36 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:45:07 | 46.59 | 44.69 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 4:45:07 | 46.92 | 45.02 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 4:45:07 | 47.24 | 45.34 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 4:45:07 | 47.57 | 45.67 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 4:45:08 | 47.90 | 46.00 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 4:45:08 | 48.23 | 46.33 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 4:45:08 | 48.56 | 46.66 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:45:09 | 48.88 | 46.98 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:45:09 | 49.21 | 47.31 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 4:45:09 | 49.54 | 47.64 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:45:10 | 49.87 | 47.97 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:45:10 | 50.20 | 48.30 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 4:45:10 | 50.53 | 48.63 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 4:45:11 | 50.85 | 48.95 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 4:45:11 | 51.18 | 49.28 | 905 | 1.14 | 0.29 | 49.5 |
| 5/1/2015 4:45:12 | 51.51 | 49.61 | 835 | 1.14 | 0.29 | 45.7 |
| 5/1/2015 4:45:29 | 51.84 | 49.94 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 4:45:29 | 52.17 | 50.27 | 27 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 4:45:30 | 52.49 | 50.59 | 175 | 1.14 | 0.29 | 9.6 |
| 5/1/2015 | 4:45:32 | 52.82 | 50.92 | 250 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 | 4:45:33 | 53.15 | 51.25 | 247 | 1.14 | 0.29 | 13.5 |
| 5/1/2015 | 4:45:38 | 53.48 | 51.58 | 24 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 4:45:43 | 53.81 | 51.91 | 31 | 1.14 | 0.29 | 1.7 |
| 5/1/2015 | 4:45:45 | 54.13 | 52.23 | 162 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 | 4:45:47 | 54.46 | 52.56 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 | 4:45:48 | 54.79 | 52.89 | 249 | 1.14 | 0.29 | 13.6 |
| 5/1/2015 | 4:45:48 | 55.12 | 53.22 | 362 | 1.14 | 0.29 | 19.8 |
| 5/1/2015 | 4:45:49 | 55.45 | 53.55 | 474 | 1.14 | 0.29 | 25.9 |
| 5/1/2015 | 4:45:52 | 55.77 | 53.87 | 141 | 1.14 | 0.29 | 7.7 |
| 5/1/2015 | 4:45:53 | 56.10 | 54.20 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 4:45:54 | 56.43 | 54.53 | 337 | 1.14 | 0.29 | 18.4 |
| 5/1/2015 | 4:45:54 | 56.76 | 54.86 | 390 | 1.14 | 0.29 | 21.3 |
| 5/1/2015 | 4:45:55 | 57.09 | 55.19 | 472 | 1.14 | 0.29 | 25.8 |
| 5/1/2015 | 4:45:55 | 57.33 | 55.43 | 558 | 1.14 | 0.29 | 30.5 |

## L192 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 4:43:56

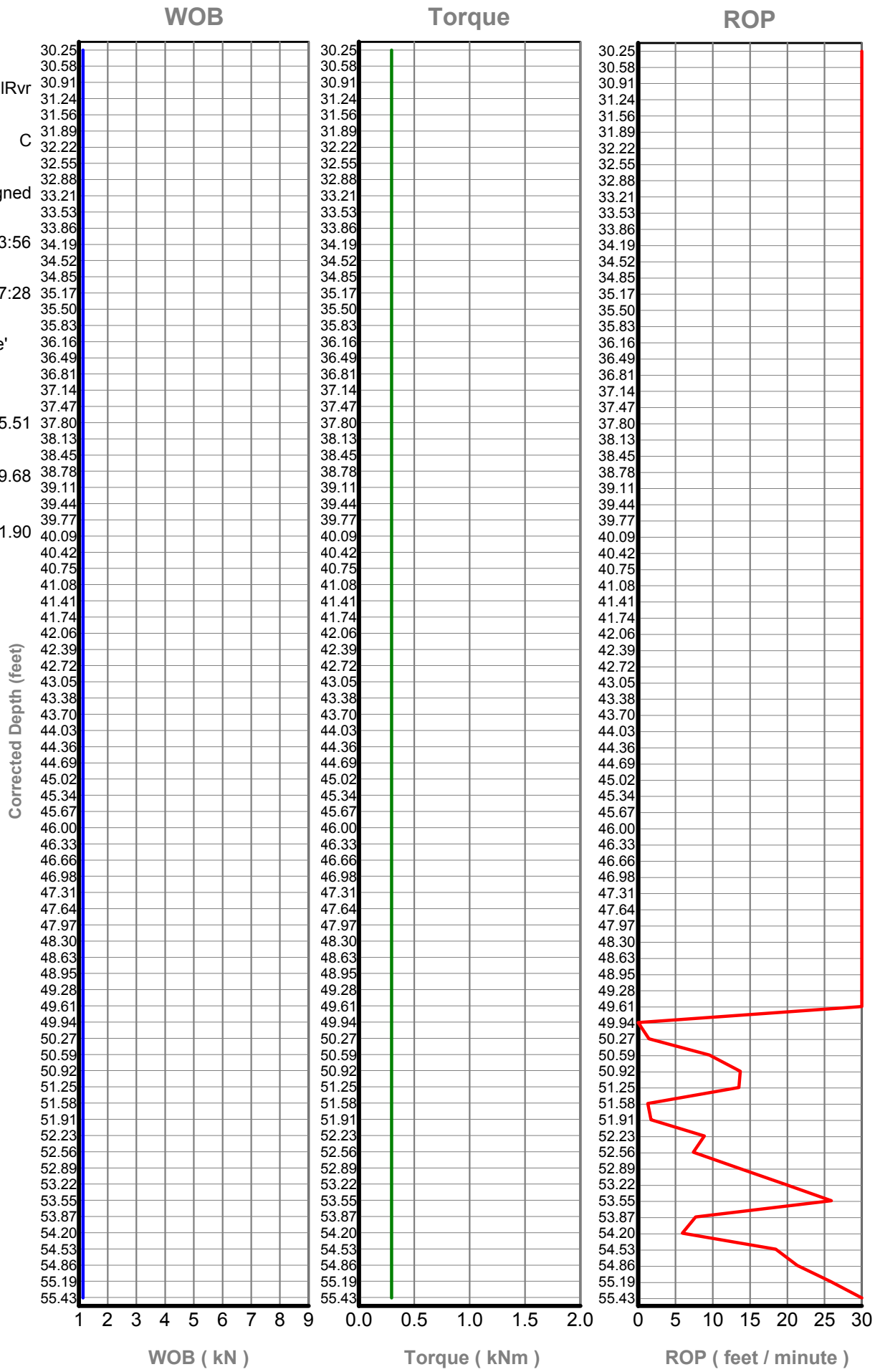
**End Date:**
5/1/2015 4:47:28

**Operator Note:**
'1.9 2.1 c Auto Complete'

**Northing:**
359,745.51

**Easting:**
242,739.68

**Tide (feet):**
1.90



## Hole: L193 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:13:45 | 36.42 | 30.12 | 693 | 1.15 | 0.22 | 37.9 |
| 5/1/2015 0:13:46 | 36.75 | 30.45 | 697 | 1.15 | 0.23 | 38.1 |
| 5/1/2015 0:13:46 | 37.07 | 30.77 | 694 | 1.20 | 0.25 | 37.9 |
| 5/1/2015 0:13:47 | 37.40 | 31.10 | 694 | 1.17 | 0.23 | 37.9 |
| 5/1/2015 0:13:47 | 37.73 | 31.43 | 694 | 1.23 | 0.27 | 37.9 |
| 5/1/2015 0:13:48 | 38.06 | 31.76 | 700 | 1.19 | 0.25 | 38.3 |
| 5/1/2015 0:13:48 | 38.39 | 32.09 | 697 | 1.13 | 0.22 | 38.1 |
| 5/1/2015 0:13:49 | 38.71 | 32.41 | 697 | 1.13 | 0.21 | 38.1 |
| 5/1/2015 0:13:49 | 39.04 | 32.74 | 693 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:13:50 | 39.37 | 33.07 | 681 | 1.15 | 0.22 | 37.2 |
| 5/1/2015 0:13:50 | 39.70 | 33.40 | 681 | 1.13 | 0.21 | 37.2 |
| 5/1/2015 0:13:51 | 40.03 | 33.73 | 690 | 1.13 | 0.21 | 37.7 |
| 5/1/2015 0:13:51 | 40.35 | 34.05 | 690 | 1.13 | 0.21 | 37.7 |
| 5/1/2015 0:13:52 | 40.68 | 34.38 | 693 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:13:53 | 41.01 | 34.71 | 697 | 1.12 | 0.21 | 38.1 |
| 5/1/2015 0:13:53 | 41.34 | 35.04 | 709 | 1.14 | 0.21 | 38.8 |
| 5/1/2015 0:13:54 | 41.67 | 35.37 | 697 | 1.14 | 0.21 | 38.1 |
| 5/1/2015 0:13:54 | 41.99 | 35.69 | 700 | 1.12 | 0.21 | 38.3 |
| 5/1/2015 0:13:55 | 42.32 | 36.02 | 697 | 1.11 | 0.21 | 38.1 |
| 5/1/2015 0:13:55 | 42.65 | 36.35 | 697 | 1.14 | 0.21 | 38.1 |
| 5/1/2015 0:13:56 | 42.98 | 36.68 | 697 | 1.13 | 0.21 | 38.1 |
| 5/1/2015 0:13:56 | 43.31 | 37.01 | 701 | 1.14 | 0.21 | 38.3 |
| 5/1/2015 0:13:57 | 43.64 | 37.34 | 694 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:13:57 | 43.96 | 37.66 | 701 | 1.13 | 0.21 | 38.3 |
| 5/1/2015 0:13:58 | 44.29 | 37.99 | 693 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:13:58 | 44.62 | 38.32 | 693 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:13:58 | 44.95 | 38.65 | 700 | 1.12 | 0.21 | 38.3 |
| 5/1/2015 0:13:59 | 45.28 | 38.98 | 700 | 1.13 | 0.21 | 38.3 |
| 5/1/2015 0:13:59 | 45.60 | 39.30 | 697 | 1.12 | 0.21 | 38.1 |
| 5/1/2015 0:14:00 | 45.93 | 39.63 | 690 | 1.12 | 0.21 | 37.7 |
| 5/1/2015 0:14:00 | 46.26 | 39.96 | 693 | 1.13 | 0.21 | 37.9 |
| 5/1/2015 0:14:01 | 46.59 | 40.29 | 694 | 1.11 | 0.21 | 38.0 |
| 5/1/2015 0:14:01 | 46.92 | 40.62 | 694 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 0:14:02 | 47.24 | 40.94 | 697 | 1.13 | 0.21 | 38.1 |
| 5/1/2015 0:14:02 | 47.57 | 41.27 | 697 | 1.12 | 0.21 | 38.1 |
| 5/1/2015 0:14:03 | 47.90 | 41.60 | 702 | 1.13 | 0.21 | 38.4 |
| 5/1/2015 0:14:04 | 48.23 | 41.93 | 687 | 1.11 | 0.21 | 37.6 |
| 5/1/2015 0:14:04 | 48.56 | 42.26 | 687 | 1.11 | 0.21 | 37.6 |
| 5/1/2015 0:14:05 | 48.88 | 42.58 | 694 | 1.12 | 0.22 | 38.0 |
| 5/1/2015 0:14:05 | 49.21 | 42.91 | 694 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 0:14:06 | 49.54 | 43.24 | 694 | 1.11 | 0.21 | 38.0 |
| 5/1/2015 0:14:06 | 49.87 | 43.57 | 701 | 1.11 | 0.21 | 38.3 |
| 5/1/2015 0:14:07 | 50.20 | 43.90 | 697 | 1.13 | 0.21 | 38.1 |
| 5/1/2015 0:14:07 | 50.53 | 44.23 | 694 | 1.12 | 0.21 | 37.9 |
| 5/1/2015 0:14:08 | 50.85 | 44.55 | 694 | 1.11 | 0.21 | 37.9 |
| 5/1/2015 0:14:08 | 51.18 | 44.88 | 690 | 1.13 | 0.21 | 37.7 |
| 5/1/2015 0:14:09 | 51.51 | 45.21 | 694 | 1.11 | 0.21 | 37.9 |
| 5/1/2015 0:14:09 | 51.84 | 45.54 | 694 | 1.11 | 0.21 | 37.9 |
| 5/1/2015 0:14:10 | 52.17 | 45.87 | 691 | 1.13 | 0.21 | 37.8 |
| 5/1/2015 0:14:10 | 52.49 | 46.19 | 691 | 1.13 | 0.21 | 37.8 |
| 5/1/2015 0:14:11 | 52.82 | 46.52 | 691 | 1.13 | 0.21 | 37.8 |
| 5/1/2015 0:14:11 | 53.15 | 46.85 | 688 | 1.14 | 0.21 | 37.6 |
| 5/1/2015 0:14:12 | 53.48 | 47.18 | 688 | 1.12 | 0.21 | 37.6 |
| 5/1/2015 0:14:12 | 53.81 | 47.51 | 684 | 1.13 | 0.21 | 37.4 |
| 5/1/2015 0:14:13 | 54.13 | 47.83 | 691 | 1.12 | 0.21 | 37.8 |
| 5/1/2015 0:14:29 | 54.46 | 48.16 | 0 | 1.06 | 1.00 | 0.0 |
| 5/1/2015 0:14:30 | 54.79 | 48.49 | 64 | 1.13 | 0.92 | 3.5 |
| 5/1/2015 0:14:31 | 55.12 | 48.82 | 227 | 1.21 | 1.39 | 12.4 |
| 5/1/2015 0:14:33 | 55.45 | 49.15 | 130 | 1.24 | 1.18 | 7.1 |
| 5/1/2015 0:14:46 | 55.77 | 49.47 | 32 | 1.19 | 1.59 | 1.7 |
| 5/1/2015 0:14:47 | 56.10 | 49.80 | 125 | 0.99 | 1.60 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 0:14:48 | 56.43 | 50.13 | 236 | 1.11 | 0.97 | 12.9 |
| 5/1/2015 | 0:14:49 | 56.76 | 50.46 | 375 | 1.22 | 1.03 | 20.5 |
| 5/1/2015 | 0:14:50 | 57.09 | 50.79 | 379 | 1.07 | 1.53 | 20.7 |
| 5/1/2015 | 0:14:51 | 57.41 | 51.11 | 396 | 1.18 | 1.20 | 21.7 |
| 5/1/2015 | 0:14:52 | 57.74 | 51.44 | 373 | 1.12 | 1.13 | 20.4 |
| 5/1/2015 | 0:14:53 | 58.07 | 51.77 | 390 | 1.14 | 0.95 | 21.3 |
| 5/1/2015 | 0:14:53 | 58.40 | 52.10 | 413 | 1.08 | 0.92 | 22.6 |
| 5/1/2015 | 0:14:54 | 58.73 | 52.43 | 446 | 1.14 | 1.06 | 24.4 |
| 5/1/2015 | 0:14:55 | 59.06 | 52.76 | 463 | 1.16 | 1.32 | 25.3 |
| 5/1/2015 | 0:14:56 | 59.38 | 53.08 | 422 | 1.17 | 1.24 | 23.1 |
| 5/1/2015 | 0:15:06 | 59.71 | 53.41 | 120 | 1.17 | 0.97 | 6.5 |
| 5/1/2015 | 0:15:07 | 60.04 | 53.74 | 232 | 1.13 | 1.51 | 12.7 |
| 5/1/2015 | 0:15:11 | 60.37 | 54.07 | 73 | 1.12 | 0.96 | 4.0 |
| 5/1/2015 | 0:15:12 | 60.70 | 54.40 | 113 | 1.12 | 1.18 | 6.2 |
| 5/1/2015 | 0:15:13 | 61.02 | 54.72 | 237 | 1.20 | 1.14 | 12.9 |
| 5/1/2015 | 0:15:14 | 61.35 | 55.05 | 320 | 1.15 | 1.10 | 17.5 |
| 5/1/2015 | 0:15:16 | 61.68 | 55.38 | 332 | 1.20 | 0.97 | 18.2 |
| 5/1/2015 | 0:15:16 | 61.73 | 55.43 | 332 | 1.20 | 0.97 | 18.2 |

## L193 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:10:59

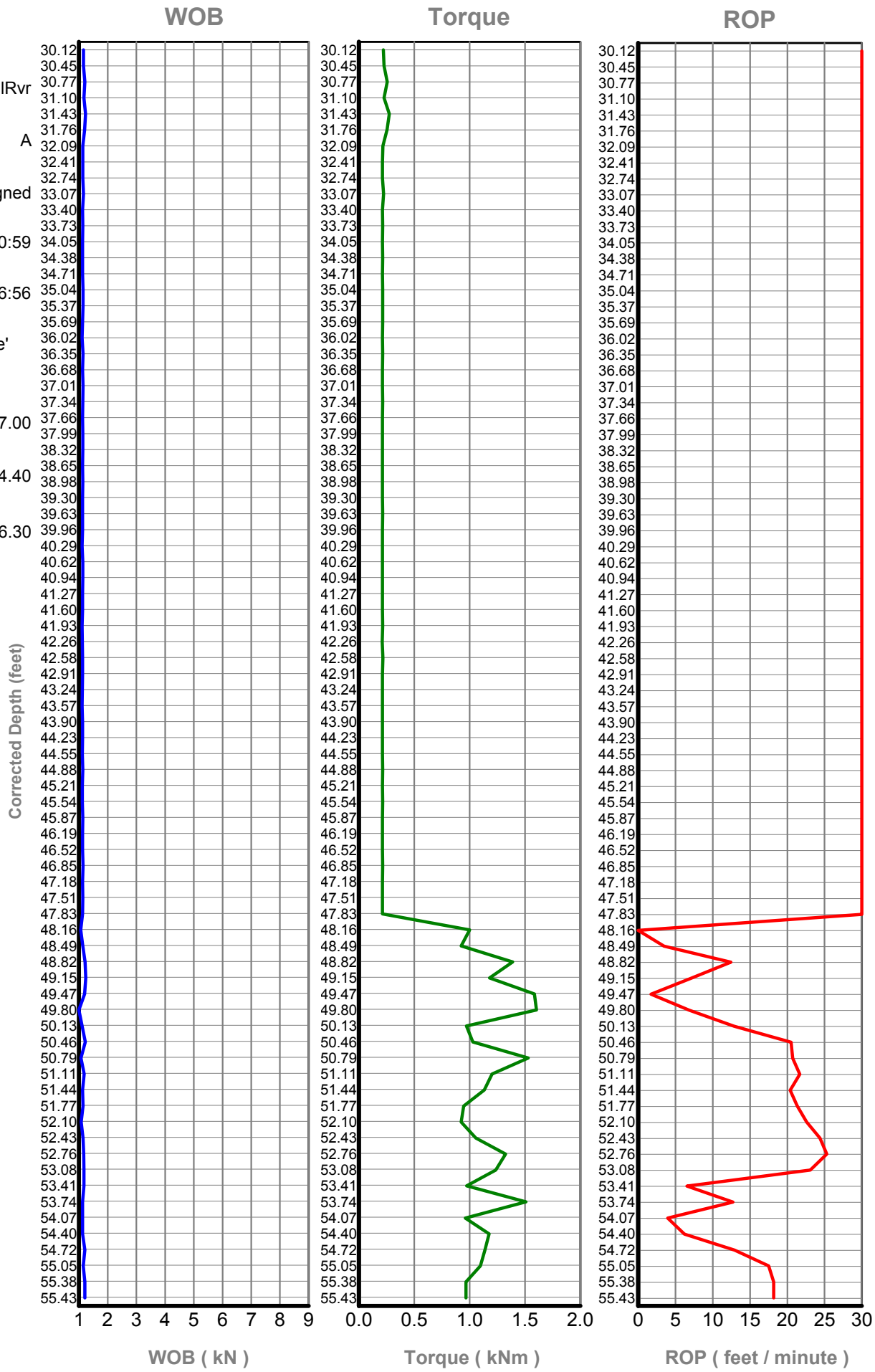
**End Date:**
5/1/2015 0:16:56

**Operator Note:**
'6.3 6.5 a Auto Complete'

**Northing:**
359,787.00

**Easting:**
242,794.40

**Tide (feet):**
6.30



## Hole: L194 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 23:47:34 | 36.75 | 30.25 | 1,154 | 0.31 | 0.38 | 63.1 |
| 4/30/2015 23:47:34 | 37.07 | 30.57 | 1,154 | 0.31 | 0.38 | 63.1 |
| 4/30/2015 23:47:34 | 37.40 | 30.90 | 1,145 | 0.31 | 0.38 | 62.6 |
| 4/30/2015 23:47:35 | 37.73 | 31.23 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 23:47:35 | 38.06 | 31.56 | 1,148 | 0.31 | 0.38 | 62.8 |
| 4/30/2015 23:47:35 | 38.39 | 31.89 | 1,157 | 0.31 | 0.38 | 63.3 |
| 4/30/2015 23:47:36 | 38.71 | 32.21 | 1,157 | 0.31 | 0.38 | 63.3 |
| 4/30/2015 23:47:36 | 39.04 | 32.54 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 23:47:37 | 39.37 | 32.87 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 23:47:37 | 39.70 | 33.20 | 1,156 | 0.32 | 0.37 | 63.2 |
| 4/30/2015 23:47:37 | 40.03 | 33.53 | 1,162 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 23:47:38 | 40.35 | 33.85 | 1,162 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 23:47:38 | 40.68 | 34.18 | 1,158 | 0.32 | 0.38 | 63.3 |
| 4/30/2015 23:47:38 | 41.01 | 34.51 | 1,158 | 0.32 | 0.38 | 63.3 |
| 4/30/2015 23:47:38 | 41.34 | 34.84 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 23:47:39 | 41.67 | 35.17 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:39 | 41.99 | 35.49 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:39 | 42.32 | 35.82 | 1,162 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 23:47:40 | 42.65 | 36.15 | 1,162 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 23:47:40 | 42.98 | 36.48 | 1,162 | 0.32 | 0.38 | 63.5 |
| 4/30/2015 23:47:40 | 43.31 | 36.81 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 23:47:40 | 43.64 | 37.14 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 23:47:41 | 43.96 | 37.46 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 23:47:41 | 44.29 | 37.79 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 23:47:41 | 44.62 | 38.12 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 23:47:42 | 44.95 | 38.45 | 1,152 | 0.31 | 0.38 | 63.0 |
| 4/30/2015 23:47:42 | 45.28 | 38.78 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/30/2015 23:47:42 | 45.60 | 39.10 | 1,118 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 23:47:43 | 45.93 | 39.43 | 1,118 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 23:47:43 | 46.26 | 39.76 | 1,118 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 23:47:43 | 46.59 | 40.09 | 1,118 | 0.31 | 0.37 | 61.1 |
| 4/30/2015 23:47:43 | 46.92 | 40.42 | 1,140 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 23:47:44 | 47.24 | 40.74 | 1,165 | 0.32 | 0.38 | 63.7 |
| 4/30/2015 23:47:44 | 47.57 | 41.07 | 1,165 | 0.32 | 0.38 | 63.7 |
| 4/30/2015 23:47:44 | 47.90 | 41.40 | 1,153 | 0.31 | 0.38 | 63.1 |
| 4/30/2015 23:47:45 | 48.23 | 41.73 | 1,153 | 0.31 | 0.38 | 63.1 |
| 4/30/2015 23:47:45 | 48.56 | 42.06 | 1,154 | 0.31 | 0.38 | 63.1 |
| 4/30/2015 23:47:45 | 48.88 | 42.38 | 1,181 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 23:47:46 | 49.21 | 42.71 | 1,181 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 23:47:46 | 49.54 | 43.04 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 23:47:47 | 49.87 | 43.37 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 23:47:46 | 50.20 | 43.70 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 23:47:47 | 50.53 | 44.03 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 23:47:47 | 50.85 | 44.35 | 1,159 | 0.31 | 0.38 | 63.4 |
| 4/30/2015 23:47:48 | 51.18 | 44.68 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:48 | 51.51 | 45.01 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:48 | 51.84 | 45.34 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:49 | 52.17 | 45.67 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:49 | 52.49 | 45.99 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 23:47:49 | 52.82 | 46.32 | 1,162 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 23:47:50 | 53.15 | 46.65 | 1,162 | 0.31 | 0.38 | 63.6 |
| 4/30/2015 23:47:50 | 53.48 | 46.98 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:50 | 53.81 | 47.31 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 23:47:50 | 54.13 | 47.63 | 1,156 | 0.29 | 0.38 | 63.2 |
| 4/30/2015 23:47:51 | 54.46 | 47.96 | 1,146 | 0.32 | 0.37 | 62.7 |
| 4/30/2015 23:47:51 | 54.79 | 48.29 | 1,146 | 0.32 | 0.37 | 62.7 |
| 4/30/2015 23:47:56 | 55.12 | 48.62 | 0 | 3.60 | 0.46 | 0.0 |
| 4/30/2015 23:48:05 | 55.45 | 48.95 | 46 | 3.69 | 0.46 | 2.5 |
| 4/30/2015 23:48:11 | 55.77 | 49.27 | 34 | 2.99 | 0.47 | 1.9 |
| 4/30/2015 23:48:22 | 56.10 | 49.60 | 39 | 3.04 | 0.46 | 2.1 |
| 4/30/2015 23:48:31 | 56.43 | 49.93 | 49 | 3.17 | 0.46 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 23:48:36 | 56.76 | 50.26 | 72 | 3.29 | 0.47 | 3.9 |
| 4/30/2015 | 23:48:47 | 57.09 | 50.59 | 32 | 2.83 | 0.47 | 1.8 |
| 4/30/2015 | 23:48:58 | 57.41 | 50.91 | 38 | 2.69 | 0.46 | 2.1 |
| 4/30/2015 | 23:49:06 | 57.68 | 51.18 | 38 | 4.06 | 0.47 | 2.1 |

## L194 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 23:46:06

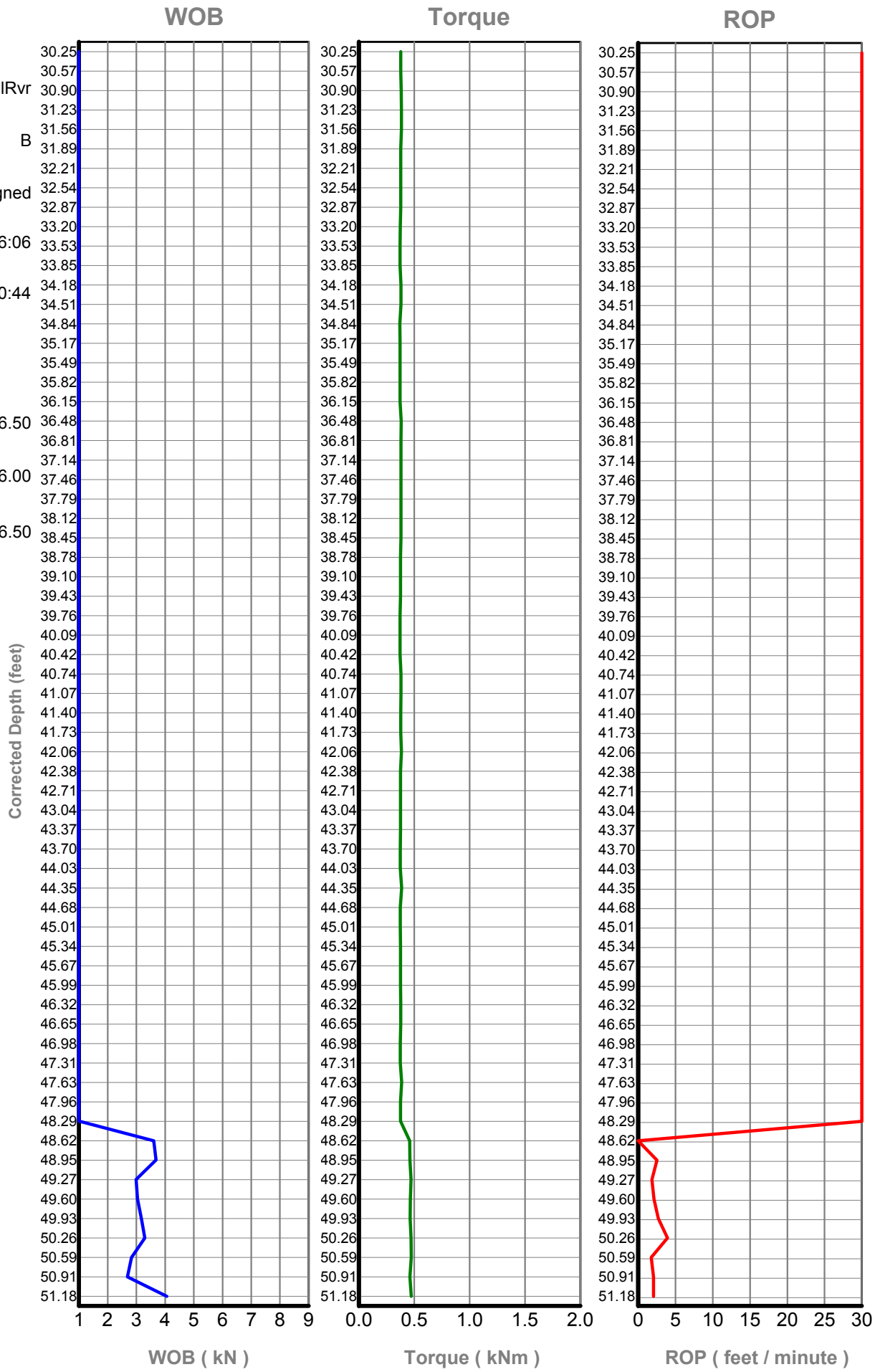
**End Date:**
4/30/2015 23:50:44

**Operator Note:**
'6.5 '6.3 6.7b Auto Complete'

**Northing:**
359,826.50

**Easting:**
242,856.00

**Tide (feet):**
6.50



## Hole: L195 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 0:10:23 | 36.42 | 30.12 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 0:10:24 | 36.75 | 30.45 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 0:10:24 | 37.07 | 30.77 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 0:10:24 | 37.40 | 31.10 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:10:25 | 37.73 | 31.43 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:10:25 | 38.06 | 31.76 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 0:10:25 | 38.39 | 32.09 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 0:10:26 | 38.71 | 32.41 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 0:10:26 | 39.04 | 32.74 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:26 | 39.37 | 33.07 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 0:10:27 | 39.70 | 33.40 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 0:10:27 | 40.03 | 33.73 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 0:10:27 | 40.35 | 34.05 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 0:10:28 | 40.68 | 34.38 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 0:10:28 | 41.01 | 34.71 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 0:10:28 | 41.34 | 35.04 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 0:10:29 | 41.67 | 35.37 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 0:10:29 | 41.99 | 35.69 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 0:10:29 | 42.32 | 36.02 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 0:10:30 | 42.65 | 36.35 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:10:30 | 42.98 | 36.68 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 0:10:30 | 43.31 | 37.01 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 0:10:31 | 43.64 | 37.34 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 0:10:31 | 43.96 | 37.66 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 0:10:31 | 44.29 | 37.99 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:32 | 44.62 | 38.32 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:32 | 44.95 | 38.65 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:33 | 45.28 | 38.98 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:33 | 45.60 | 39.30 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 0:10:33 | 45.93 | 39.63 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 0:10:34 | 46.26 | 39.96 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 0:10:34 | 46.59 | 40.29 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 0:10:34 | 46.92 | 40.62 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 0:10:35 | 47.24 | 40.94 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 0:10:35 | 47.57 | 41.27 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 0:10:36 | 47.90 | 41.60 | 988 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 0:10:36 | 48.23 | 41.93 | 988 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 0:10:36 | 48.56 | 42.26 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:37 | 48.88 | 42.58 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:10:37 | 49.21 | 42.91 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 0:10:37 | 49.54 | 43.24 | 999 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:10:38 | 49.87 | 43.57 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 0:10:38 | 50.20 | 43.90 | 996 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 0:10:39 | 50.53 | 44.23 | 996 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 0:10:39 | 50.85 | 44.55 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 0:10:39 | 51.18 | 44.88 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 0:10:40 | 51.51 | 45.21 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 0:10:40 | 51.84 | 45.54 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 0:11:24 | 52.17 | 45.87 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 0:11:28 | 52.49 | 46.19 | 98 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 0:11:56 | 52.82 | 46.52 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 0:12:10 | 53.15 | 46.85 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 0:12:23 | 53.48 | 47.18 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 0:12:32 | 53.78 | 47.48 | 35 | 1.14 | 0.29 | 1.9 |

## L195 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 0:08:59

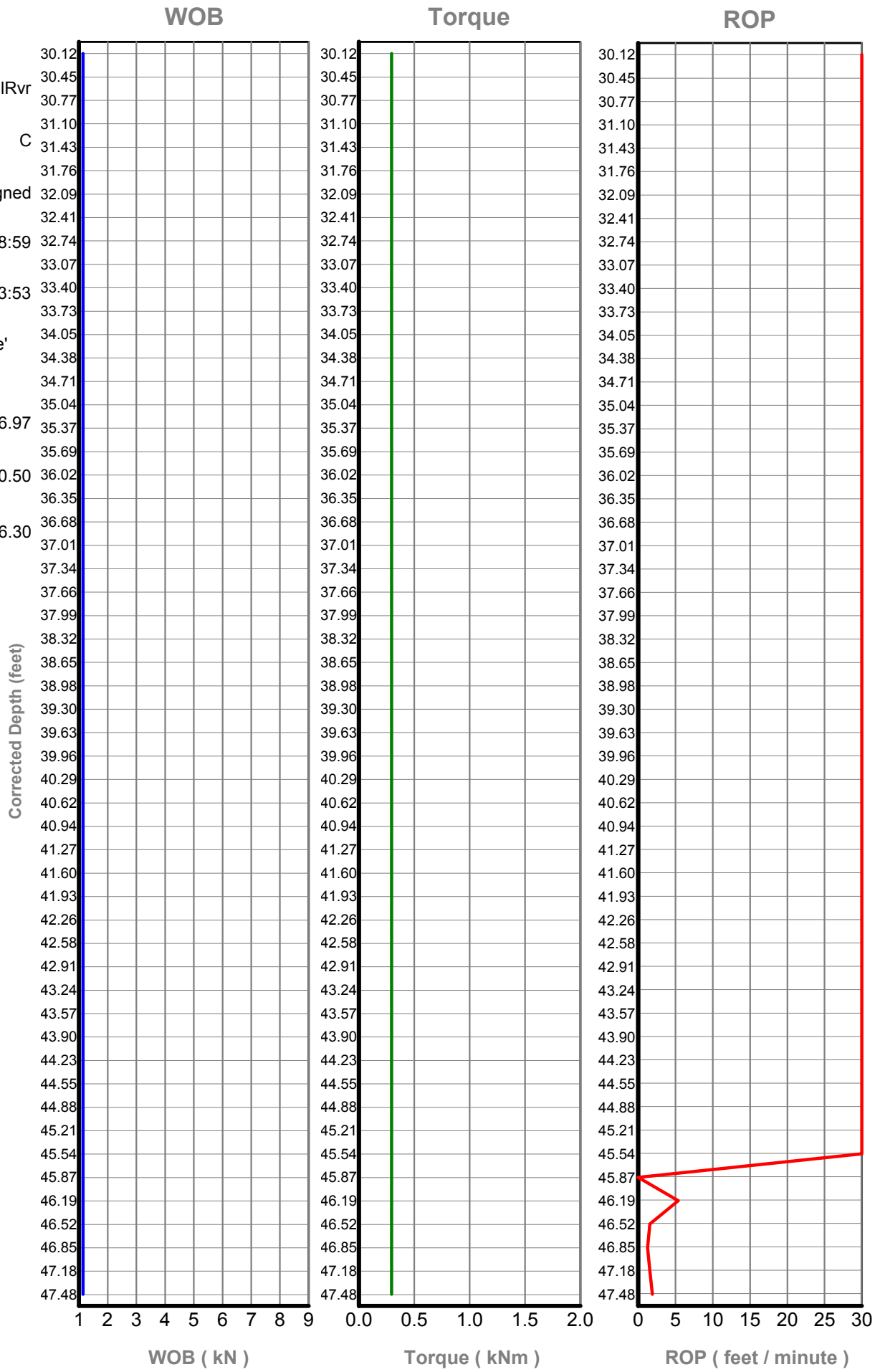
**End Date:**
5/1/2015 0:13:53

**Operator Note:**
'6.3 6.5 c Auto Complete'

**Northing:**
359,866.97

**Easting:**
242,920.50

**Tide (feet):**
6.30



## Hole: L2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:29:45 | 35.43 | 30.23 | 1,132 | 0.28 | 0.38 | 61.9 |
| 5/1/2015 13:29:46 | 35.76 | 30.56 | 1,132 | 0.28 | 0.38 | 61.9 |
| 5/1/2015 13:29:46 | 36.09 | 30.89 | 1,142 | 0.29 | 0.38 | 62.4 |
| 5/1/2015 13:29:46 | 36.42 | 31.22 | 1,139 | 0.28 | 0.39 | 62.3 |
| 5/1/2015 13:29:47 | 36.75 | 31.55 | 1,139 | 0.28 | 0.39 | 62.3 |
| 5/1/2015 13:29:47 | 37.07 | 31.87 | 1,136 | 0.29 | 0.39 | 62.1 |
| 5/1/2015 13:29:47 | 37.40 | 32.20 | 1,136 | 0.28 | 0.37 | 62.1 |
| 5/1/2015 13:29:48 | 37.73 | 32.53 | 1,136 | 0.28 | 0.37 | 62.1 |
| 5/1/2015 13:29:48 | 38.06 | 32.86 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 13:29:48 | 38.39 | 33.19 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 13:29:48 | 38.71 | 33.51 | 1,116 | 0.28 | 0.38 | 61.1 |
| 5/1/2015 13:29:49 | 39.04 | 33.84 | 1,116 | 0.28 | 0.38 | 61.1 |
| 5/1/2015 13:29:49 | 39.37 | 34.17 | 1,116 | 0.29 | 0.38 | 61.1 |
| 5/1/2015 13:29:49 | 39.70 | 34.50 | 1,128 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:29:50 | 40.03 | 34.83 | 1,128 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:29:50 | 40.35 | 35.15 | 1,131 | 0.29 | 0.37 | 61.9 |
| 5/1/2015 13:29:50 | 40.68 | 35.48 | 1,138 | 0.29 | 0.37 | 62.2 |
| 5/1/2015 13:29:51 | 41.01 | 35.81 | 1,138 | 0.29 | 0.37 | 62.2 |
| 5/1/2015 13:29:51 | 41.34 | 36.14 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 13:29:51 | 41.67 | 36.47 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 13:29:51 | 41.99 | 36.79 | 1,151 | 0.29 | 0.38 | 63.0 |
| 5/1/2015 13:29:52 | 42.32 | 37.12 | 1,151 | 0.29 | 0.38 | 63.0 |
| 5/1/2015 13:29:52 | 42.65 | 37.45 | 1,159 | 0.29 | 0.38 | 63.4 |
| 5/1/2015 13:29:52 | 42.98 | 37.78 | 1,123 | 0.29 | 0.38 | 61.4 |
| 5/1/2015 13:29:53 | 43.31 | 38.11 | 1,123 | 0.29 | 0.38 | 61.4 |
| 5/1/2015 13:29:53 | 43.64 | 38.44 | 1,123 | 0.29 | 0.38 | 61.4 |
| 5/1/2015 13:29:54 | 43.96 | 38.76 | 1,129 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:29:54 | 44.29 | 39.09 | 1,129 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:29:54 | 44.62 | 39.42 | 1,111 | 0.22 | 0.39 | 60.8 |
| 5/1/2015 13:30:17 | 44.95 | 39.75 | 1 | 0.26 | 0.45 | 0.1 |
| 5/1/2015 13:30:17 | 45.28 | 40.08 | 18 | 0.29 | 0.38 | 1.0 |
| 5/1/2015 13:30:18 | 45.60 | 40.40 | 231 | 0.29 | 0.38 | 12.6 |
| 5/1/2015 13:30:18 | 45.93 | 40.73 | 231 | 0.29 | 0.38 | 12.6 |
| 5/1/2015 13:30:18 | 46.26 | 41.06 | 450 | 0.29 | 0.38 | 24.6 |
| 5/1/2015 13:30:19 | 46.59 | 41.39 | 673 | 0.29 | 0.38 | 36.8 |
| 5/1/2015 13:30:19 | 46.92 | 41.72 | 673 | 0.29 | 0.38 | 36.8 |
| 5/1/2015 13:30:19 | 47.24 | 42.04 | 897 | 0.29 | 0.38 | 49.1 |
| 5/1/2015 13:30:20 | 47.57 | 42.37 | 897 | 0.29 | 0.38 | 49.1 |
| 5/1/2015 13:30:20 | 47.90 | 42.70 | 1,113 | 0.29 | 0.37 | 60.8 |
| 5/1/2015 13:30:20 | 48.23 | 43.03 | 1,130 | 0.29 | 0.38 | 61.8 |
| 5/1/2015 13:30:21 | 48.56 | 43.36 | 1,130 | 0.29 | 0.38 | 61.8 |
| 5/1/2015 13:30:21 | 48.88 | 43.68 | 1,133 | 0.29 | 0.39 | 62.0 |
| 5/1/2015 13:30:21 | 49.21 | 44.01 | 1,133 | 0.29 | 0.39 | 62.0 |
| 5/1/2015 13:30:21 | 49.54 | 44.34 | 1,136 | 0.29 | 0.37 | 62.1 |
| 5/1/2015 13:30:22 | 49.87 | 44.67 | 1,140 | 0.30 | 0.37 | 62.3 |
| 5/1/2015 13:30:22 | 50.20 | 45.00 | 1,140 | 0.30 | 0.37 | 62.3 |
| 5/1/2015 13:30:22 | 50.53 | 45.33 | 1,130 | 0.29 | 0.37 | 61.8 |
| 5/1/2015 13:30:23 | 50.85 | 45.65 | 1,130 | 0.29 | 0.37 | 61.8 |
| 5/1/2015 13:30:23 | 51.18 | 45.98 | 1,126 | 0.29 | 0.37 | 61.6 |
| 5/1/2015 13:30:23 | 51.51 | 46.31 | 1,136 | 0.29 | 0.38 | 62.1 |
| 5/1/2015 13:30:24 | 51.84 | 46.64 | 1,136 | 0.29 | 0.38 | 62.1 |
| 5/1/2015 13:30:24 | 52.17 | 46.97 | 1,133 | 0.29 | 0.38 | 62.0 |
| 5/1/2015 13:30:25 | 52.49 | 47.29 | 1,133 | 0.29 | 0.38 | 62.0 |
| 5/1/2015 13:30:25 | 52.82 | 47.62 | 1,133 | 0.29 | 0.38 | 62.0 |
| 5/1/2015 13:30:25 | 53.15 | 47.95 | 1,127 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:30:26 | 53.48 | 48.28 | 1,127 | 0.29 | 0.38 | 61.7 |
| 5/1/2015 13:30:26 | 53.81 | 48.61 | 1,116 | 0.27 | 0.41 | 61.0 |
| 5/1/2015 13:30:39 | 54.13 | 48.93 | 59 | 3.30 | 0.45 | 3.2 |
| 5/1/2015 13:30:42 | 54.46 | 49.26 | 147 | 3.67 | 0.45 | 8.0 |
| 5/1/2015 13:30:43 | 54.79 | 49.59 | 199 | 3.86 | 0.47 | 10.9 |
| 5/1/2015 13:30:46 | 55.12 | 49.92 | 194 | 3.63 | 0.44 | 10.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:30:47 | 55.45 | 50.25 | 223 | 3.94 | 0.46 | 12.2 |
| 5/1/2015 | 13:30:49 | 55.77 | 50.57 | 147 | 4.24 | 0.45 | 8.1 |
| 5/1/2015 | 13:30:56 | 56.10 | 50.90 | 1 | 3.94 | 0.46 | 0.1 |
| 5/1/2015 | 13:31:00 | 56.43 | 51.23 | 77 | 3.77 | 0.43 | 4.2 |
| 5/1/2015 | 13:31:01 | 56.76 | 51.56 | 146 | 2.94 | 0.43 | 8.0 |
| 5/1/2015 | 13:31:02 | 57.09 | 51.89 | 230 | 3.08 | 0.44 | 12.6 |
| 5/1/2015 | 13:31:02 | 57.41 | 52.21 | 296 | 3.14 | 0.43 | 16.2 |
| 5/1/2015 | 13:31:03 | 57.74 | 52.54 | 296 | 3.64 | 0.43 | 16.2 |
| 5/1/2015 | 13:31:04 | 58.07 | 52.87 | 477 | 3.88 | 0.43 | 26.1 |
| 5/1/2015 | 13:31:05 | 58.40 | 53.20 | 477 | 2.79 | 0.42 | 26.1 |
| 5/1/2015 | 13:31:05 | 58.73 | 53.53 | 508 | 3.09 | 0.42 | 27.8 |
| 5/1/2015 | 13:31:05 | 59.06 | 53.86 | 508 | 3.83 | 0.44 | 27.8 |
| 5/1/2015 | 13:31:07 | 59.38 | 54.18 | 458 | 4.48 | 0.42 | 25.0 |
| 5/1/2015 | 13:31:07 | 59.71 | 54.51 | 458 | 3.07 | 0.41 | 25.0 |
| 5/1/2015 | 13:31:08 | 60.04 | 54.84 | 468 | 2.59 | 0.40 | 25.6 |
| 5/1/2015 | 13:31:10 | 60.37 | 55.17 | 287 | 3.80 | 0.47 | 15.7 |

## L2 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:27:50

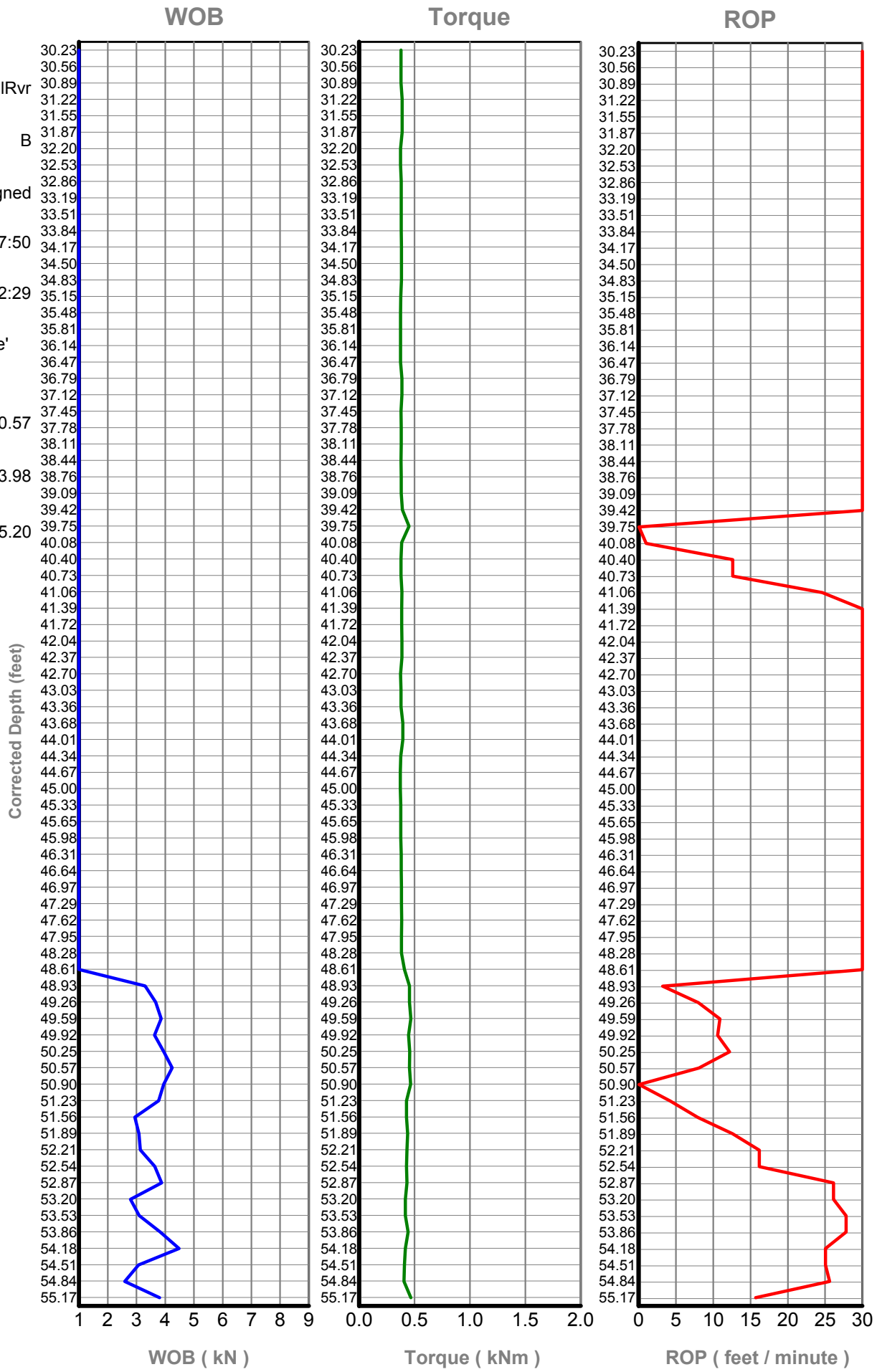
**End Date:**
5/1/2015 13:32:29

**Operator Note:**
'5.2 5.4 b Auto Complete'

**Northing:**
360,040.57

**Easting:**
241,933.98

**Tide (feet):**
5.20



## Hole: L20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:45:29 | 33.79 | 30.19 | 1,105 | 0.33 | 0.38 | 60.4 |
| 5/1/2015 2:45:29 | 34.12 | 30.52 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 2:45:29 | 34.45 | 30.85 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 2:45:30 | 34.78 | 31.18 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 2:45:30 | 35.11 | 31.51 | 1,115 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 2:45:30 | 35.43 | 31.83 | 1,127 | 0.33 | 0.39 | 61.6 |
| 5/1/2015 2:45:31 | 35.76 | 32.16 | 1,127 | 0.33 | 0.39 | 61.6 |
| 5/1/2015 2:45:31 | 36.09 | 32.49 | 1,120 | 0.50 | 0.38 | 61.2 |
| 5/1/2015 2:45:31 | 36.42 | 32.82 | 1,120 | 0.50 | 0.38 | 61.2 |
| 5/1/2015 2:45:31 | 36.75 | 33.15 | 1,104 | 0.35 | 0.38 | 60.4 |
| 5/1/2015 2:45:32 | 37.07 | 33.47 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 2:45:32 | 37.40 | 33.80 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 2:45:32 | 37.73 | 34.13 | 1,098 | 0.34 | 0.38 | 60.0 |
| 5/1/2015 2:45:33 | 38.06 | 34.46 | 1,098 | 0.34 | 0.38 | 60.0 |
| 5/1/2015 2:45:33 | 38.39 | 34.79 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 2:45:33 | 38.71 | 35.11 | 1,103 | 0.33 | 0.39 | 60.3 |
| 5/1/2015 2:45:34 | 39.04 | 35.44 | 1,103 | 0.33 | 0.39 | 60.3 |
| 5/1/2015 2:45:34 | 39.37 | 35.77 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 2:45:34 | 39.70 | 36.10 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 2:45:35 | 40.03 | 36.43 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 2:45:35 | 40.35 | 36.75 | 1,109 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 2:45:35 | 40.68 | 37.08 | 1,109 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 2:45:35 | 41.01 | 37.41 | 1,109 | 0.34 | 0.38 | 60.7 |
| 5/1/2015 2:45:36 | 41.34 | 37.74 | 1,116 | 0.34 | 0.39 | 61.0 |
| 5/1/2015 2:45:36 | 41.67 | 38.07 | 1,116 | 0.34 | 0.39 | 61.0 |
| 5/1/2015 2:45:36 | 41.99 | 38.39 | 1,112 | 0.34 | 0.39 | 60.8 |
| 5/1/2015 2:45:37 | 42.32 | 38.72 | 1,112 | 0.34 | 0.39 | 60.8 |
| 5/1/2015 2:45:37 | 42.65 | 39.05 | 1,115 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 2:45:37 | 42.98 | 39.38 | 1,119 | 0.34 | 0.38 | 61.2 |
| 5/1/2015 2:45:38 | 43.31 | 39.71 | 1,119 | 0.34 | 0.38 | 61.2 |
| 5/1/2015 2:45:38 | 43.64 | 40.04 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/1/2015 2:45:39 | 43.96 | 40.36 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/1/2015 2:45:38 | 44.29 | 40.69 | 1,121 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 2:45:39 | 44.62 | 41.02 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/1/2015 2:45:40 | 44.95 | 41.35 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/1/2015 2:45:40 | 45.28 | 41.68 | 1,125 | 0.33 | 0.39 | 61.5 |
| 5/1/2015 2:45:40 | 45.60 | 42.00 | 1,125 | 0.33 | 0.39 | 61.5 |
| 5/1/2015 2:45:40 | 45.93 | 42.33 | 1,127 | 0.33 | 0.33 | 61.7 |
| 5/1/2015 2:45:41 | 46.26 | 42.66 | 1,127 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 2:45:41 | 46.59 | 42.99 | 1,127 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 2:45:41 | 46.92 | 43.32 | 1,130 | 0.33 | 0.39 | 61.8 |
| 5/1/2015 2:45:42 | 47.24 | 43.64 | 1,127 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 2:45:42 | 47.57 | 43.97 | 1,127 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 2:45:42 | 47.90 | 44.30 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/1/2015 2:45:43 | 48.23 | 44.63 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/1/2015 2:45:43 | 48.56 | 44.96 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/1/2015 2:45:43 | 48.88 | 45.28 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 2:45:44 | 49.21 | 45.61 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 2:45:44 | 49.54 | 45.94 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 2:45:44 | 49.87 | 46.27 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 2:45:44 | 50.20 | 46.60 | 1,120 | 0.33 | 0.39 | 61.3 |
| 5/1/2015 2:45:45 | 50.53 | 46.93 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/1/2015 2:45:45 | 50.85 | 47.25 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/1/2015 2:45:45 | 51.18 | 47.58 | 1,132 | 0.33 | 0.38 | 61.9 |
| 5/1/2015 2:45:46 | 51.51 | 47.91 | 1,132 | 0.33 | 0.38 | 61.9 |
| 5/1/2015 2:45:46 | 51.84 | 48.24 | 1,124 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 2:45:46 | 52.17 | 48.57 | 1,104 | 0.31 | 0.46 | 60.4 |
| 5/1/2015 2:45:50 | 52.49 | 48.89 | 55 | 3.65 | 0.44 | 3.0 |
| 5/1/2015 2:45:55 | 52.82 | 49.22 | 0 | 4.17 | 0.44 | 0.0 |
| 5/1/2015 2:46:05 | 53.15 | 49.55 | 38 | 4.52 | 0.44 | 2.1 |
| 5/1/2015 2:46:08 | 53.48 | 49.88 | 46 | 3.55 | 0.47 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:46:18 | 53.81 | 50.21 | 35 | 3.24 | 0.48 | 1.9 |
| 5/1/2015 | 2:46:27 | 54.13 | 50.53 | 43 | 3.74 | 0.48 | 2.4 |
| 5/1/2015 | 2:46:36 | 54.46 | 50.86 | 41 | 3.64 | 0.47 | 2.2 |
| 5/1/2015 | 2:46:36 | 54.52 | 50.92 | 46 | 3.62 | 0.48 | 2.5 |

## L20 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 2:43:57

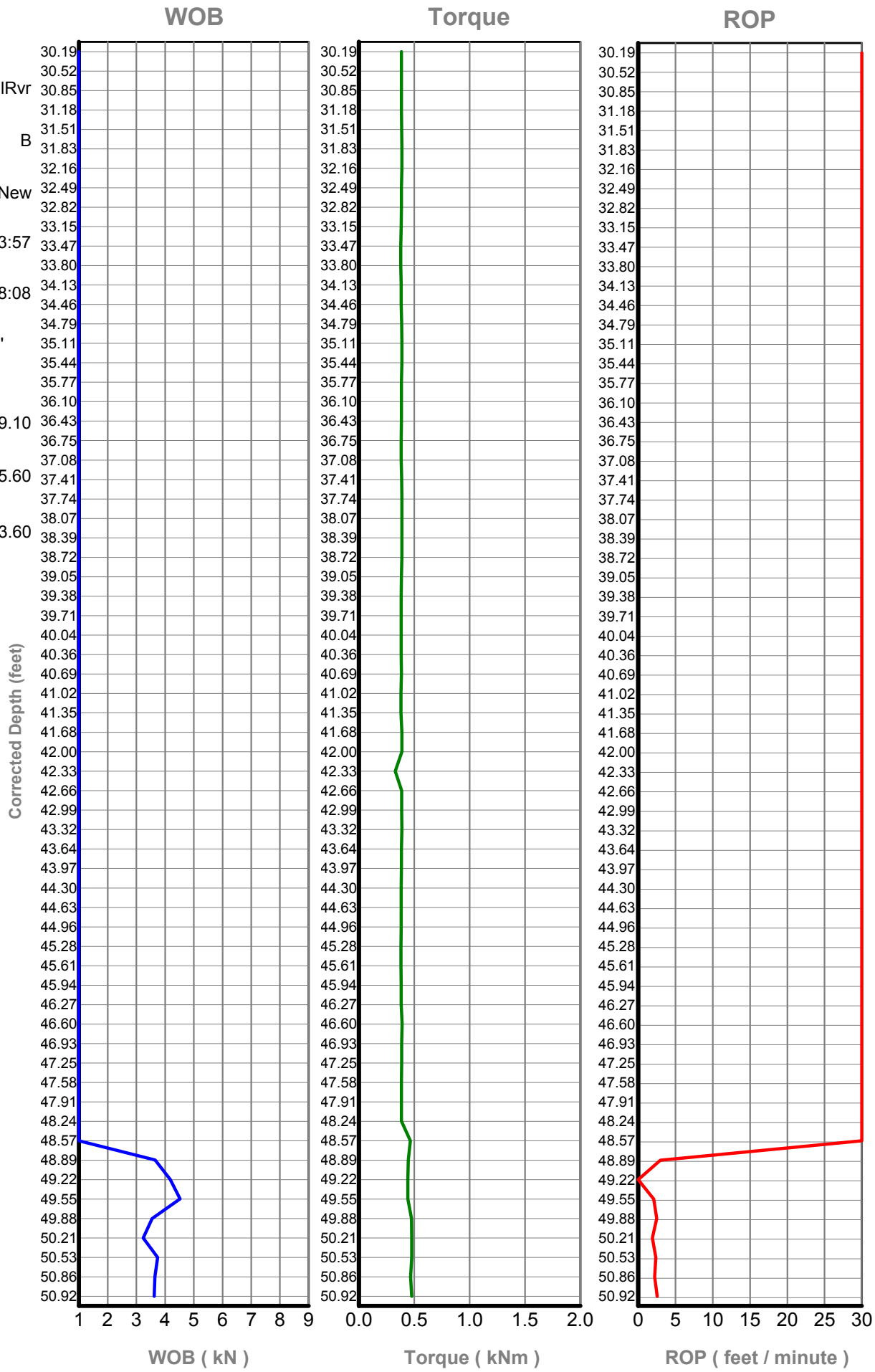
**End Date:**
5/1/2015 2:48:08

**Operator Note:**
'3.6 4.0b Auto Complete'

**Northing:**
360,219.10

**Easting:**
242,355.60

**Tide (feet):**
3.60



## Hole: L21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:44:03 | 33.79 | 30.19 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 2:44:03 | 34.12 | 30.52 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 2:44:03 | 34.45 | 30.85 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 2:44:04 | 34.78 | 31.18 | 1,041 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:04 | 35.11 | 31.51 | 1,041 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:04 | 35.43 | 31.83 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 2:44:05 | 35.76 | 32.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:05 | 36.09 | 32.49 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:05 | 36.42 | 32.82 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 2:44:06 | 36.75 | 33.15 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:06 | 37.07 | 33.47 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:06 | 37.40 | 33.80 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:07 | 37.73 | 34.13 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:07 | 38.06 | 34.46 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:07 | 38.39 | 34.79 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 2:44:08 | 38.71 | 35.11 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 2:44:08 | 39.04 | 35.44 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 2:44:08 | 39.37 | 35.77 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 2:44:09 | 39.70 | 36.10 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 2:44:10 | 40.03 | 36.43 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 2:44:10 | 40.35 | 36.75 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 2:44:10 | 40.68 | 37.08 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:11 | 41.01 | 37.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:11 | 41.34 | 37.74 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 2:44:11 | 41.67 | 38.07 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:12 | 41.99 | 38.39 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 2:44:12 | 42.32 | 38.72 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 2:44:12 | 42.65 | 39.05 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 2:44:13 | 42.98 | 39.38 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 2:44:13 | 43.31 | 39.71 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 2:44:13 | 43.64 | 40.04 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 2:44:14 | 43.96 | 40.36 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 2:44:14 | 44.29 | 40.69 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:14 | 44.62 | 41.02 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:15 | 44.95 | 41.35 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:15 | 45.28 | 41.68 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 2:44:15 | 45.60 | 42.00 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 2:44:16 | 45.93 | 42.33 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 2:44:16 | 46.26 | 42.66 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 2:44:16 | 46.59 | 42.99 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 2:44:17 | 46.92 | 43.32 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 2:44:17 | 47.24 | 43.64 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 2:44:17 | 47.57 | 43.97 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 2:44:18 | 47.90 | 44.30 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 2:44:18 | 48.23 | 44.63 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 2:44:18 | 48.56 | 44.96 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 2:44:19 | 48.88 | 45.28 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 2:44:19 | 49.21 | 45.61 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:19 | 49.54 | 45.94 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:20 | 49.87 | 46.27 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:44:20 | 50.20 | 46.60 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:44:21 | 50.53 | 46.93 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 2:44:21 | 50.85 | 47.25 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 2:44:21 | 51.18 | 47.58 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 2:44:22 | 51.51 | 47.91 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 2:44:22 | 51.84 | 48.24 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 2:44:22 | 52.17 | 48.57 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 2:44:33 | 52.49 | 48.89 | 23 | 1.14 | 0.29 | 1.2 |
| 5/1/2015 2:44:33 | 52.82 | 49.22 | 155 | 1.14 | 0.29 | 8.5 |
| 5/1/2015 2:44:44 | 53.15 | 49.55 | 39 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 2:45:03 | 53.48 | 49.88 | 41 | 1.14 | 0.29 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:45:14 | 53.81 | 50.21 | 56 | 1.14 | 0.29 | 3.1 |
| 5/1/2015 | 2:45:19 | 54.13 | 50.53 | 83 | 1.14 | 0.29 | 4.6 |
| 5/1/2015 | 2:45:34 | 54.46 | 50.86 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 2:45:38 | 54.79 | 51.19 | 89 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 | 2:46:22 | 55.12 | 51.52 | 107 | 1.14 | 0.29 | 5.8 |
| 5/1/2015 | 2:46:23 | 55.45 | 51.85 | 233 | 1.14 | 0.29 | 12.8 |
| 5/1/2015 | 2:46:24 | 55.77 | 52.17 | 281 | 1.14 | 0.29 | 15.3 |
| 5/1/2015 | 2:46:25 | 56.10 | 52.50 | 306 | 1.14 | 0.29 | 16.7 |
| 5/1/2015 | 2:46:27 | 56.43 | 52.83 | 215 | 1.14 | 0.29 | 11.8 |
| 5/1/2015 | 2:46:31 | 56.76 | 53.16 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 | 2:46:34 | 57.09 | 53.49 | 110 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 | 2:46:40 | 57.41 | 53.81 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 2:46:48 | 57.74 | 54.14 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 2:46:56 | 58.07 | 54.47 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 2:47:04 | 58.40 | 54.80 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 2:47:11 | 58.73 | 55.13 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 2:49:46 | 59.02 | 55.42 | 0 | 1.14 | 0.29 | 0.0 |

## L21 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:43:00

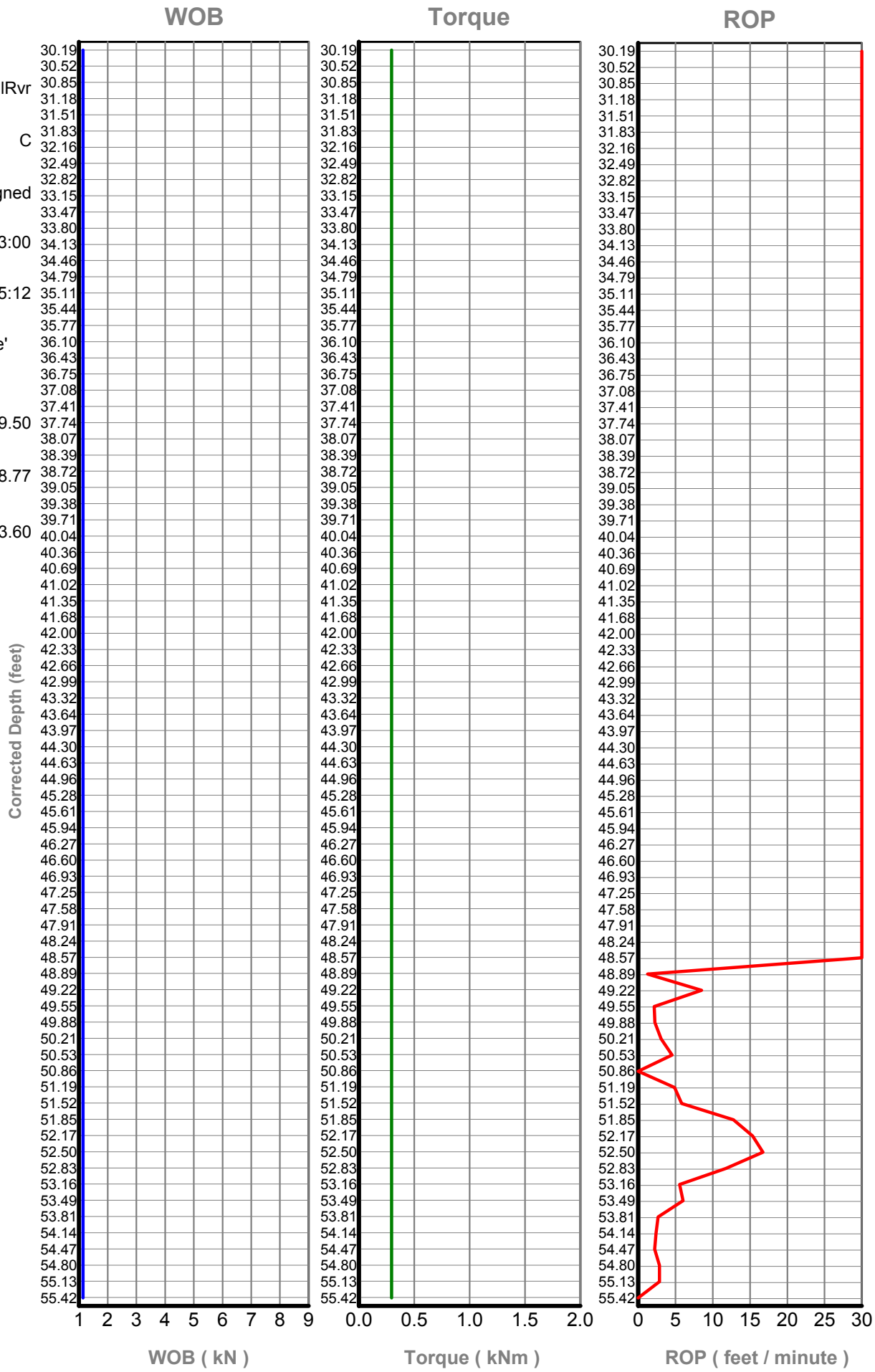
**End Date:**
5/1/2015 2:55:12

**Operator Note:**
'3.6 4.0 c Auto Complete'

**Northing:**
360,259.50

**Easting:**
242,418.77

**Tide (feet):**
3.60



## Hole: L22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:58:28 | 34.78 | 30.28 | 1,124 | 1.64 | 0.23 | 61.5 |
| 5/1/2015 1:58:28 | 35.11 | 30.61 | 1,125 | 1.60 | 0.23 | 61.5 |
| 5/1/2015 1:58:28 | 35.43 | 30.93 | 1,125 | 1.60 | 0.23 | 61.5 |
| 5/1/2015 1:58:29 | 35.76 | 31.26 | 1,153 | 1.62 | 0.23 | 63.0 |
| 5/1/2015 1:58:29 | 36.09 | 31.59 | 1,136 | 1.64 | 0.23 | 62.1 |
| 5/1/2015 1:58:30 | 36.42 | 31.92 | 1,136 | 1.64 | 0.23 | 62.1 |
| 5/1/2015 1:58:30 | 36.75 | 32.25 | 1,121 | 1.66 | 0.23 | 61.3 |
| 5/1/2015 1:58:30 | 37.07 | 32.57 | 1,121 | 1.66 | 0.23 | 61.3 |
| 5/1/2015 1:58:30 | 37.40 | 32.90 | 1,121 | 1.65 | 0.17 | 61.3 |
| 5/1/2015 1:58:31 | 37.73 | 33.23 | 1,129 | 1.64 | 0.23 | 61.8 |
| 5/1/2015 1:58:31 | 38.06 | 33.56 | 1,129 | 1.64 | 0.23 | 61.8 |
| 5/1/2015 1:58:31 | 38.39 | 33.89 | 1,129 | 1.64 | 0.23 | 61.8 |
| 5/1/2015 1:58:32 | 38.71 | 34.21 | 1,129 | 1.64 | 0.23 | 61.8 |
| 5/1/2015 1:58:32 | 39.04 | 34.54 | 1,141 | 1.64 | 0.23 | 62.4 |
| 5/1/2015 1:58:32 | 39.37 | 34.87 | 1,118 | 1.64 | 0.23 | 61.2 |
| 5/1/2015 1:58:33 | 39.70 | 35.20 | 1,118 | 1.64 | 0.23 | 61.2 |
| 5/1/2015 1:58:33 | 40.03 | 35.53 | 1,118 | 1.65 | 0.24 | 61.2 |
| 5/1/2015 1:58:33 | 40.35 | 35.85 | 1,118 | 1.65 | 0.24 | 61.2 |
| 5/1/2015 1:58:33 | 40.68 | 36.18 | 1,118 | 1.54 | 0.25 | 61.2 |
| 5/1/2015 1:58:34 | 41.01 | 36.51 | 1,118 | 1.38 | 0.25 | 61.2 |
| 5/1/2015 1:58:34 | 41.34 | 36.84 | 1,114 | 1.40 | 0.25 | 60.9 |
| 5/1/2015 1:58:35 | 41.67 | 37.17 | 1,114 | 1.40 | 0.25 | 60.9 |
| 5/1/2015 1:58:35 | 41.99 | 37.49 | 1,067 | 1.40 | 0.25 | 58.4 |
| 5/1/2015 1:58:35 | 42.32 | 37.82 | 987 | 1.39 | 0.24 | 54.0 |
| 5/1/2015 1:58:36 | 42.65 | 38.15 | 987 | 1.39 | 0.25 | 54.0 |
| 5/1/2015 1:58:36 | 42.98 | 38.48 | 987 | 1.39 | 0.25 | 54.0 |
| 5/1/2015 1:58:36 | 43.31 | 38.81 | 966 | 1.39 | 0.25 | 52.8 |
| 5/1/2015 1:58:37 | 43.64 | 39.14 | 916 | 1.40 | 0.25 | 50.1 |
| 5/1/2015 1:58:37 | 43.96 | 39.46 | 892 | 1.40 | 0.25 | 48.8 |
| 5/1/2015 1:58:38 | 44.29 | 39.79 | 892 | 1.40 | 0.25 | 48.8 |
| 5/1/2015 1:58:38 | 44.62 | 40.12 | 891 | 1.40 | 0.25 | 48.7 |
| 5/1/2015 1:58:38 | 44.95 | 40.45 | 898 | 1.40 | 0.25 | 49.1 |
| 5/1/2015 1:58:39 | 45.28 | 40.78 | 883 | 1.42 | 0.25 | 48.3 |
| 5/1/2015 1:58:40 | 45.60 | 41.10 | 882 | 1.40 | 0.25 | 48.2 |
| 5/1/2015 1:58:40 | 45.93 | 41.43 | 882 | 1.40 | 0.25 | 48.2 |
| 5/1/2015 1:58:40 | 46.26 | 41.76 | 879 | 1.40 | 0.25 | 48.1 |
| 5/1/2015 1:58:41 | 46.59 | 42.09 | 860 | 1.40 | 0.25 | 47.1 |
| 5/1/2015 1:58:41 | 46.92 | 42.42 | 860 | 1.39 | 0.25 | 47.1 |
| 5/1/2015 1:58:42 | 47.24 | 42.74 | 860 | 1.39 | 0.25 | 47.1 |
| 5/1/2015 1:58:42 | 47.57 | 43.07 | 857 | 1.41 | 0.25 | 46.9 |
| 5/1/2015 1:58:42 | 47.90 | 43.40 | 857 | 1.40 | 0.25 | 46.9 |
| 5/1/2015 1:58:43 | 48.23 | 43.73 | 869 | 1.38 | 0.25 | 47.5 |
| 5/1/2015 1:58:43 | 48.56 | 44.06 | 853 | 1.38 | 0.25 | 46.7 |
| 5/1/2015 1:58:44 | 48.88 | 44.38 | 853 | 1.38 | 0.25 | 46.7 |
| 5/1/2015 1:58:44 | 49.21 | 44.71 | 853 | 1.40 | 0.25 | 46.7 |
| 5/1/2015 1:58:44 | 49.54 | 45.04 | 848 | 1.39 | 0.25 | 46.4 |
| 5/1/2015 1:58:45 | 49.87 | 45.37 | 848 | 1.40 | 0.25 | 46.4 |
| 5/1/2015 1:58:45 | 50.20 | 45.70 | 863 | 1.39 | 0.25 | 47.2 |
| 5/1/2015 1:58:46 | 50.53 | 46.03 | 863 | 1.39 | 0.25 | 47.2 |
| 5/1/2015 1:58:46 | 50.85 | 46.35 | 863 | 1.39 | 0.25 | 47.2 |
| 5/1/2015 1:58:46 | 51.18 | 46.68 | 879 | 1.41 | 0.25 | 48.0 |
| 5/1/2015 1:58:47 | 51.51 | 47.01 | 839 | 1.42 | 0.25 | 45.9 |
| 5/1/2015 1:58:47 | 51.84 | 47.34 | 856 | 1.49 | 0.25 | 46.8 |
| 5/1/2015 1:59:04 | 52.17 | 47.67 | 63 | 1.15 | 1.16 | 3.4 |
| 5/1/2015 1:59:07 | 52.49 | 47.99 | 140 | 1.14 | 1.27 | 7.7 |
| 5/1/2015 1:59:12 | 52.82 | 48.32 | 57 | 1.16 | 1.17 | 3.1 |
| 5/1/2015 1:59:16 | 53.15 | 48.65 | 39 | 1.91 | 1.49 | 2.1 |
| 5/1/2015 1:59:17 | 53.48 | 48.98 | 117 | 1.32 | 1.47 | 6.4 |
| 5/1/2015 1:59:18 | 53.81 | 49.31 | 220 | 1.72 | 1.87 | 12.1 |
| 5/1/2015 1:59:29 | 54.13 | 49.63 | 65 | 1.98 | 1.41 | 3.5 |
| 5/1/2015 1:59:35 | 54.46 | 49.96 | 0 | 1.89 | 1.55 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:59:39 | 54.79 | 50.29 | 78 | 1.05 | 1.18 | 4.3 |
| 5/1/2015 | 1:59:43 | 55.12 | 50.62 | 113 | 1.12 | 1.13 | 6.2 |
| 5/1/2015 | 1:59:46 | 55.45 | 50.95 | 124 | 1.06 | 1.38 | 6.8 |
| 5/1/2015 | 1:59:49 | 55.77 | 51.27 | 111 | 1.06 | 1.20 | 6.1 |
| 5/1/2015 | 1:59:52 | 56.10 | 51.60 | 135 | 1.01 | 1.16 | 7.4 |
| 5/1/2015 | 1:59:56 | 56.43 | 51.93 | 86 | 1.05 | 1.28 | 4.7 |
| 5/1/2015 | 2:00:01 | 56.76 | 52.26 | 55 | 1.06 | 1.16 | 3.0 |
| 5/1/2015 | 2:00:08 | 57.09 | 52.59 | 59 | 1.07 | 1.13 | 3.2 |
| 5/1/2015 | 2:00:13 | 57.41 | 52.91 | 78 | 1.05 | 1.11 | 4.3 |
| 5/1/2015 | 2:00:16 | 57.74 | 53.24 | 133 | 1.06 | 1.16 | 7.3 |
| 5/1/2015 | 2:00:24 | 58.07 | 53.57 | 49 | 1.88 | 1.28 | 2.7 |
| 5/1/2015 | 2:00:26 | 58.40 | 53.90 | 179 | 1.79 | 1.13 | 9.8 |
| 5/1/2015 | 2:00:32 | 58.73 | 54.23 | 59 | 1.02 | 1.05 | 3.2 |
| 5/1/2015 | 2:00:37 | 59.06 | 54.56 | 84 | 1.11 | 1.08 | 4.6 |
| 5/1/2015 | 2:00:42 | 59.38 | 54.88 | 78 | 1.09 | 1.03 | 4.3 |
| 5/1/2015 | 2:00:45 | 59.71 | 55.21 | 119 | 1.08 | 1.05 | 6.5 |
| 5/1/2015 | 2:00:46 | 59.81 | 55.31 | 124 | 1.04 | 1.10 | 6.8 |

## L22 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:56:46

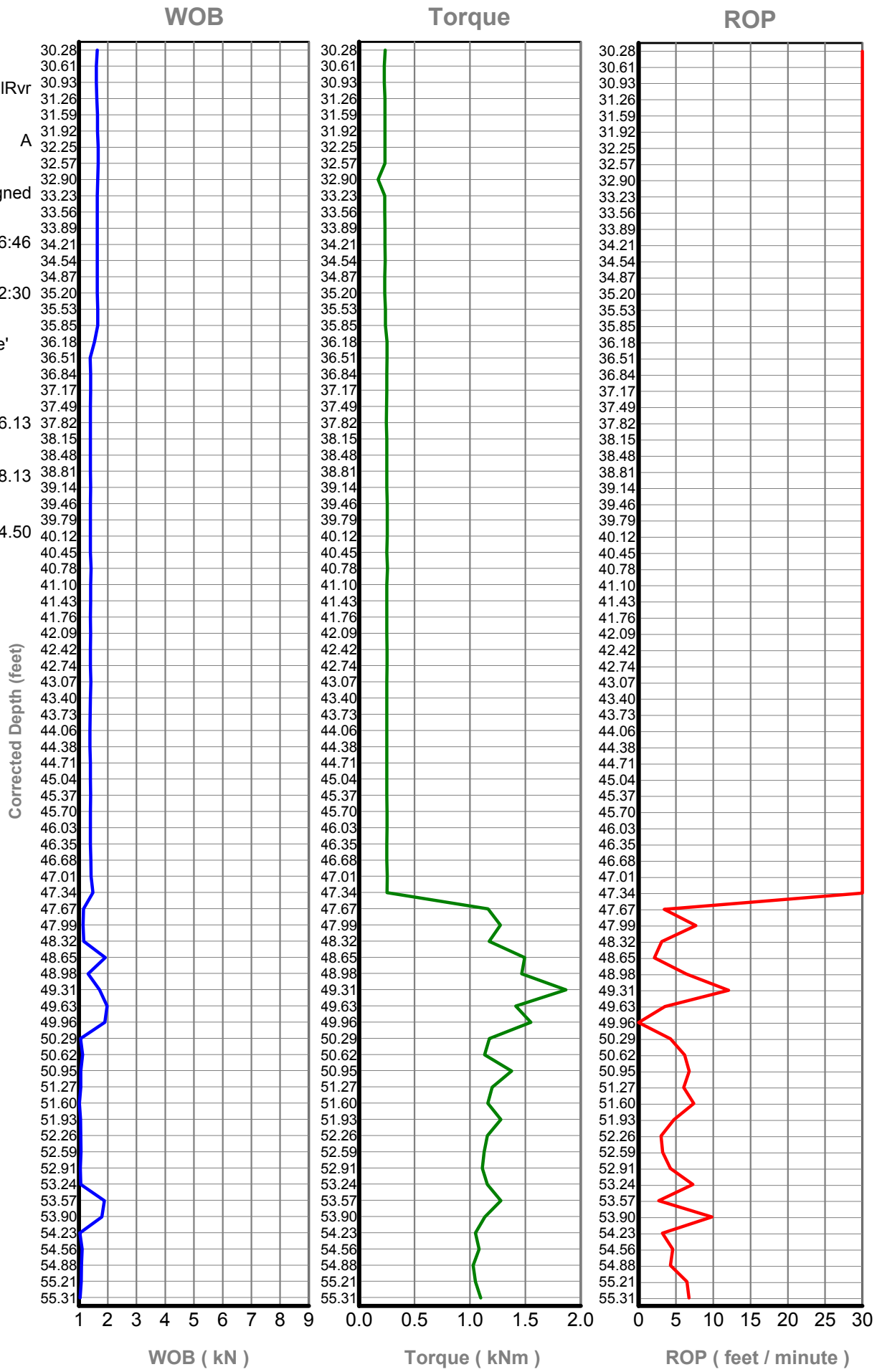
**End Date:**
5/1/2015 2:02:30

**Operator Note:**
'4.5 4.8 a Auto Complete'

**Northing:**
360,296.13

**Easting:**
242,478.13

**Tide (feet):**
4.50



## Hole: L23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:59:21 | 34.45 | 30.05 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 1:59:21 | 34.78 | 30.38 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 1:59:21 | 35.11 | 30.71 | 1,169 | 0.30 | 0.37 | 63.9 |
| 5/1/2015 1:59:22 | 35.43 | 31.03 | 1,169 | 0.30 | 0.37 | 63.9 |
| 5/1/2015 1:59:22 | 35.76 | 31.36 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/1/2015 1:59:22 | 36.09 | 31.69 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/1/2015 1:59:23 | 36.42 | 32.02 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/1/2015 1:59:23 | 36.75 | 32.35 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 1:59:23 | 37.07 | 32.67 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 1:59:23 | 37.40 | 33.00 | 1,137 | 0.31 | 0.37 | 62.2 |
| 5/1/2015 1:59:24 | 37.73 | 33.33 | 1,137 | 0.31 | 0.37 | 62.2 |
| 5/1/2015 1:59:24 | 38.06 | 33.66 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:59:24 | 38.39 | 33.99 | 1,146 | 0.30 | 0.38 | 62.6 |
| 5/1/2015 1:59:25 | 38.71 | 34.31 | 1,146 | 0.30 | 0.38 | 62.6 |
| 5/1/2015 1:59:25 | 39.04 | 34.64 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 1:59:25 | 39.37 | 34.97 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 1:59:25 | 39.70 | 35.30 | 1,157 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 1:59:26 | 40.03 | 35.63 | 1,180 | 0.31 | 0.38 | 64.5 |
| 5/1/2015 1:59:26 | 40.35 | 35.95 | 1,180 | 0.31 | 0.38 | 64.5 |
| 5/1/2015 1:59:26 | 40.68 | 36.28 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:59:27 | 41.01 | 36.61 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:59:27 | 41.34 | 36.94 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:27 | 41.67 | 37.27 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:59:28 | 41.99 | 37.59 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:59:28 | 42.32 | 37.92 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:28 | 42.65 | 38.25 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:28 | 42.98 | 38.58 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:29 | 43.31 | 38.91 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:29 | 43.64 | 39.24 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 1:59:29 | 43.96 | 39.56 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/1/2015 1:59:30 | 44.29 | 39.89 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/1/2015 1:59:30 | 44.62 | 40.22 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/1/2015 1:59:31 | 44.95 | 40.55 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/1/2015 1:59:31 | 45.28 | 40.88 | 1,173 | 0.31 | 0.38 | 64.2 |
| 5/1/2015 1:59:31 | 45.60 | 41.20 | 1,163 | 0.31 | 0.38 | 63.6 |
| 5/1/2015 1:59:32 | 45.93 | 41.53 | 1,163 | 0.31 | 0.38 | 63.6 |
| 5/1/2015 1:59:32 | 46.26 | 41.86 | 1,186 | 0.31 | 0.38 | 64.8 |
| 5/1/2015 1:59:32 | 46.59 | 42.19 | 1,186 | 0.31 | 0.38 | 64.8 |
| 5/1/2015 1:59:32 | 46.92 | 42.52 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/1/2015 1:59:33 | 47.24 | 42.84 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:33 | 47.57 | 43.17 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:33 | 47.90 | 43.50 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:34 | 48.23 | 43.83 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:59:34 | 48.56 | 44.16 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:59:34 | 48.88 | 44.48 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:59:34 | 49.21 | 44.81 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:35 | 49.54 | 45.14 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:59:35 | 49.87 | 45.47 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:59:35 | 50.20 | 45.80 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:59:36 | 50.53 | 46.13 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:59:36 | 50.85 | 46.45 | 1,160 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:36 | 51.18 | 46.78 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 1:59:37 | 51.51 | 47.11 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 1:59:37 | 51.84 | 47.44 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 1:59:37 | 52.17 | 47.77 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 1:59:37 | 52.49 | 48.09 | 1,161 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 1:59:38 | 52.82 | 48.42 | 1,161 | 0.31 | 0.38 | 63.5 |
| 5/1/2015 1:59:38 | 53.15 | 48.75 | 1,181 | 0.31 | 0.37 | 64.6 |
| 5/1/2015 1:59:38 | 53.48 | 49.08 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:39 | 53.81 | 49.41 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:59:39 | 54.13 | 49.73 | 1,162 | 0.31 | 0.38 | 63.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:59:39 | 54.46 | 50.06 | 1,141 | 0.31 | 0.39 | 62.4 |
| 5/1/2015 | 1:59:40 | 54.79 | 50.39 | 1,141 | 0.31 | 0.39 | 62.4 |
| 5/1/2015 | 1:59:40 | 55.12 | 50.72 | 1,104 | 0.29 | 0.42 | 60.4 |
| 5/1/2015 | 1:59:44 | 55.45 | 51.05 | 0 | 4.37 | 0.41 | 0.0 |
| 5/1/2015 | 1:59:45 | 55.77 | 51.37 | 75 | 3.18 | 0.41 | 4.1 |
| 5/1/2015 | 1:59:48 | 56.10 | 51.70 | 23 | 2.65 | 0.41 | 1.2 |
| 5/1/2015 | 1:59:50 | 56.43 | 52.03 | 180 | 6.18 | 0.48 | 9.8 |
| 5/1/2015 | 1:59:52 | 56.76 | 52.36 | 278 | 3.98 | 0.45 | 15.2 |
| 5/1/2015 | 1:59:54 | 57.09 | 52.69 | 155 | 6.07 | 0.47 | 8.5 |
| 5/1/2015 | 2:00:04 | 57.41 | 53.01 | 66 | 4.19 | 0.44 | 3.6 |
| 5/1/2015 | 2:00:05 | 57.74 | 53.34 | 157 | 4.47 | 0.44 | 8.6 |
| 5/1/2015 | 2:00:06 | 58.07 | 53.67 | 234 | 7.94 | 0.45 | 12.8 |
| 5/1/2015 | 2:00:20 | 58.40 | 54.00 | 40 | 3.53 | 0.44 | 2.2 |
| 5/1/2015 | 2:00:22 | 58.73 | 54.33 | 195 | 4.88 | 0.45 | 10.7 |
| 5/1/2015 | 2:00:26 | 59.06 | 54.66 | 103 | 3.90 | 0.46 | 5.6 |
| 5/1/2015 | 2:00:33 | 59.38 | 54.98 | 50 | 3.80 | 0.47 | 2.7 |
| 5/1/2015 | 2:00:42 | 59.71 | 55.31 | 39 | 3.52 | 0.47 | 2.1 |
| 5/1/2015 | 2:00:43 | 59.78 | 55.38 | 41 | 4.23 | 0.47 | 2.3 |

## L23 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:57:50

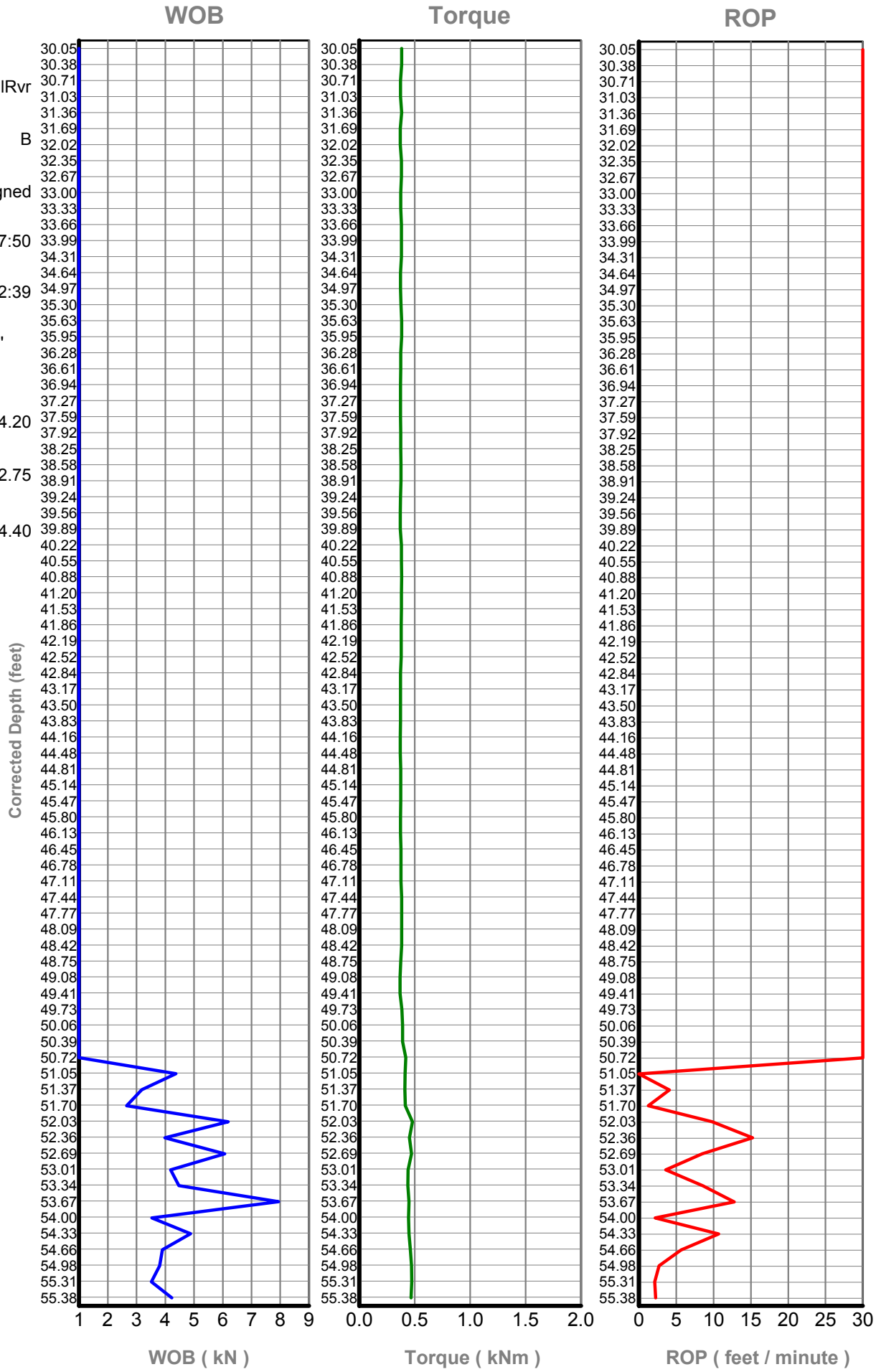
**End Date:**
5/1/2015 2:02:39

**Operator Note:**
'4.4 4.8b Auto Complete'

**Northing:**
360,334.20

**Easting:**
242,542.75

**Tide (feet):**
4.40



## Hole: L24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:57:30 | 34.78 | 30.28 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:57:30 | 35.11 | 30.61 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:31 | 35.43 | 30.93 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:31 | 35.76 | 31.26 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:31 | 36.09 | 31.59 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:31 | 36.42 | 31.92 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:57:32 | 36.75 | 32.25 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:32 | 37.07 | 32.57 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:32 | 37.40 | 32.90 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:33 | 37.73 | 33.23 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:57:33 | 38.06 | 33.56 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:57:33 | 38.39 | 33.89 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:57:34 | 38.71 | 34.21 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:34 | 39.04 | 34.54 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:34 | 39.37 | 34.87 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:57:35 | 39.70 | 35.20 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:57:35 | 40.03 | 35.53 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:35 | 40.35 | 35.85 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:36 | 40.68 | 36.18 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:36 | 41.01 | 36.51 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:36 | 41.34 | 36.84 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:37 | 41.67 | 37.17 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:37 | 41.99 | 37.49 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:57:37 | 42.32 | 37.82 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:38 | 42.65 | 38.15 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:38 | 42.98 | 38.48 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 1:57:38 | 43.31 | 38.81 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 1:57:38 | 43.64 | 39.14 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:57:39 | 43.96 | 39.46 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:57:39 | 44.29 | 39.79 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:57:39 | 44.62 | 40.12 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:40 | 44.95 | 40.45 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:57:41 | 45.28 | 40.78 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:57:41 | 45.60 | 41.10 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 1:57:41 | 45.93 | 41.43 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:57:42 | 46.26 | 41.76 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:57:42 | 46.59 | 42.09 | 1,063 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:57:42 | 46.92 | 42.42 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:43 | 47.24 | 42.74 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:43 | 47.57 | 43.07 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:57:43 | 47.90 | 43.40 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:57:43 | 48.23 | 43.73 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:57:44 | 48.56 | 44.06 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:44 | 48.88 | 44.38 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:44 | 49.21 | 44.71 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:57:45 | 49.54 | 45.04 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:45 | 49.87 | 45.37 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:45 | 50.20 | 45.70 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:46 | 50.53 | 46.03 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:46 | 50.85 | 46.35 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:46 | 51.18 | 46.68 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:47 | 51.51 | 47.01 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:47 | 51.84 | 47.34 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:47 | 52.17 | 47.67 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:48 | 52.49 | 47.99 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:48 | 52.82 | 48.32 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:57:48 | 53.15 | 48.65 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:49 | 53.48 | 48.98 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:57:49 | 53.81 | 49.31 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:49 | 54.13 | 49.63 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:57:50 | 54.46 | 49.96 | 1,073 | 1.14 | 0.29 | 58.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:57:58 | 54.79 | 50.29 | 37 | 1.14 | 0.29 | 2.0 |
| 5/1/2015 | 1:57:59 | 55.12 | 50.62 | 181 | 1.14 | 0.29 | 9.9 |
| 5/1/2015 | 1:57:59 | 55.45 | 50.95 | 338 | 1.14 | 0.29 | 18.5 |
| 5/1/2015 | 1:58:03 | 55.77 | 51.27 | 74 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 | 1:58:05 | 56.10 | 51.60 | 192 | 1.14 | 0.29 | 10.5 |
| 5/1/2015 | 1:58:06 | 56.43 | 51.93 | 281 | 1.14 | 0.29 | 15.4 |
| 5/1/2015 | 1:58:07 | 56.76 | 52.26 | 287 | 1.14 | 0.29 | 15.7 |
| 5/1/2015 | 1:58:18 | 57.09 | 52.59 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 1:58:34 | 57.41 | 52.91 | 22 | 1.14 | 0.29 | 1.2 |
| 5/1/2015 | 1:58:47 | 57.74 | 53.24 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 1:58:57 | 58.01 | 53.51 | 26 | 1.14 | 0.29 | 1.4 |

## L24 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:56:32

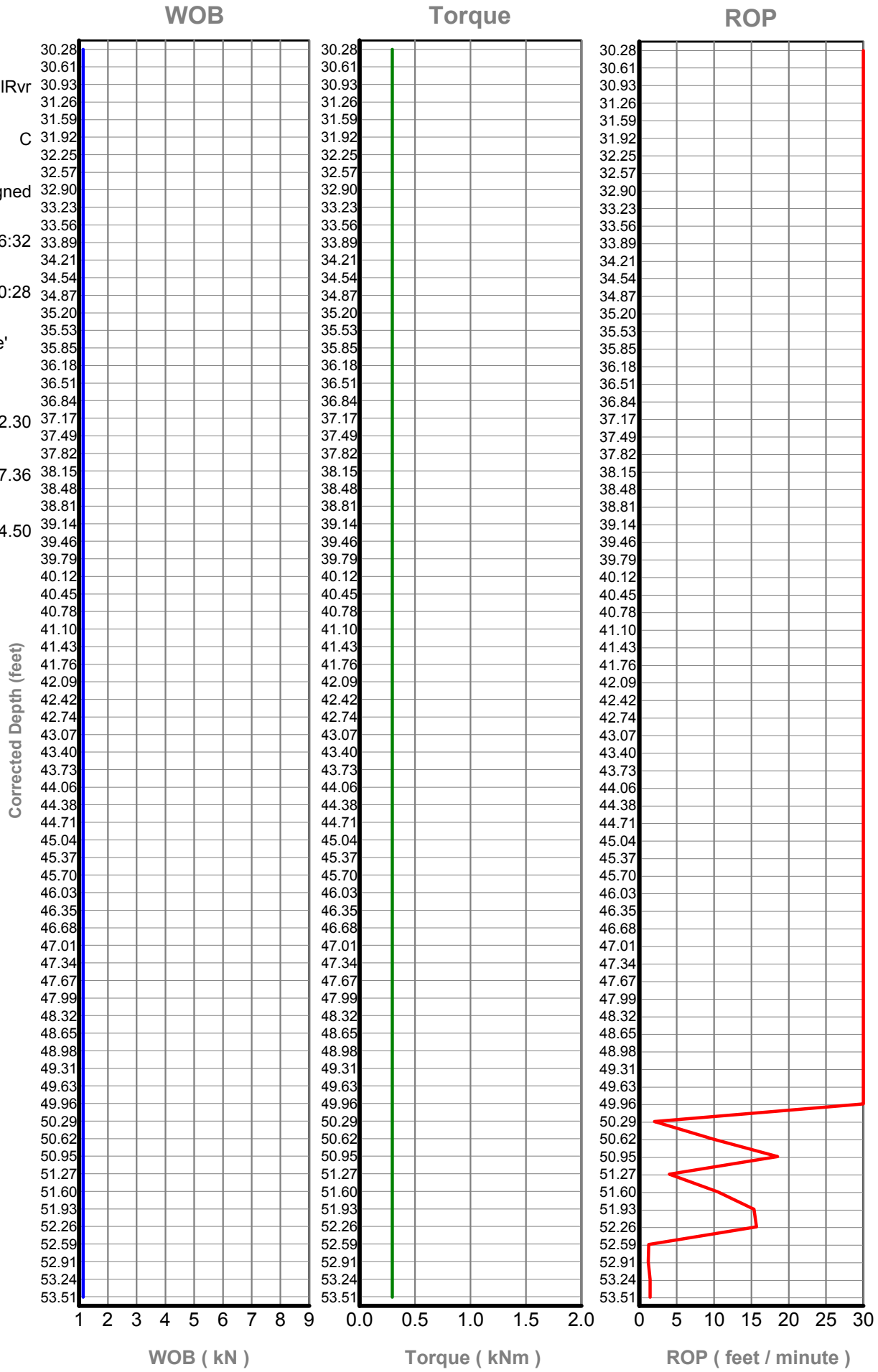
**End Date:**
5/1/2015 2:00:28

**Operator Note:**
'4.5 4,8 c Auto Complete'

**Northing:**
360,372.30

**Easting:**
242,607.36

**Tide (feet):**
4.50



## Hole: L25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:14:35 | 36.75 | 30.25 | 686 | 1.16 | 0.22 | 37.5 |
| 4/30/2015 22:14:36 | 37.07 | 30.57 | 686 | 1.14 | 0.22 | 37.5 |
| 4/30/2015 22:14:36 | 37.40 | 30.90 | 703 | 1.17 | 0.22 | 38.4 |
| 4/30/2015 22:14:37 | 37.73 | 31.23 | 710 | 1.15 | 0.22 | 38.8 |
| 4/30/2015 22:14:37 | 38.06 | 31.56 | 714 | 1.14 | 0.22 | 39.1 |
| 4/30/2015 22:14:38 | 38.39 | 31.89 | 717 | 1.15 | 0.22 | 39.2 |
| 4/30/2015 22:14:38 | 38.71 | 32.21 | 717 | 1.13 | 0.22 | 39.2 |
| 4/30/2015 22:14:39 | 39.04 | 32.54 | 708 | 1.13 | 0.22 | 38.7 |
| 4/30/2015 22:14:39 | 39.37 | 32.87 | 704 | 1.13 | 0.21 | 38.5 |
| 4/30/2015 22:14:40 | 39.70 | 33.20 | 711 | 1.15 | 0.21 | 38.9 |
| 4/30/2015 22:14:40 | 40.03 | 33.53 | 708 | 1.12 | 0.22 | 38.7 |
| 4/30/2015 22:14:41 | 40.35 | 33.85 | 708 | 1.15 | 0.22 | 38.7 |
| 4/30/2015 22:14:41 | 40.68 | 34.18 | 708 | 1.15 | 0.21 | 38.7 |
| 4/30/2015 22:14:42 | 41.01 | 34.51 | 708 | 1.14 | 0.21 | 38.7 |
| 4/30/2015 22:14:43 | 41.34 | 34.84 | 702 | 1.14 | 0.23 | 38.4 |
| 4/30/2015 22:14:43 | 41.67 | 35.17 | 705 | 1.14 | 0.21 | 38.6 |
| 4/30/2015 22:14:44 | 41.99 | 35.49 | 698 | 1.14 | 0.21 | 38.2 |
| 4/30/2015 22:14:44 | 42.32 | 35.82 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 22:14:45 | 42.65 | 36.15 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 22:14:45 | 42.98 | 36.48 | 708 | 1.14 | 0.22 | 38.7 |
| 4/30/2015 22:14:46 | 43.31 | 36.81 | 708 | 1.14 | 0.21 | 38.7 |
| 4/30/2015 22:14:46 | 43.64 | 37.14 | 711 | 1.17 | 0.22 | 38.9 |
| 4/30/2015 22:14:47 | 43.96 | 37.46 | 693 | 1.13 | 0.21 | 37.9 |
| 4/30/2015 22:14:47 | 44.29 | 37.79 | 693 | 1.15 | 0.22 | 37.9 |
| 4/30/2015 22:14:48 | 44.62 | 38.12 | 701 | 1.15 | 0.22 | 38.3 |
| 4/30/2015 22:14:48 | 44.95 | 38.45 | 701 | 1.14 | 0.21 | 38.4 |
| 4/30/2015 22:14:49 | 45.28 | 38.78 | 701 | 1.15 | 0.22 | 38.4 |
| 4/30/2015 22:14:49 | 45.60 | 39.10 | 703 | 1.15 | 0.22 | 38.4 |
| 4/30/2015 22:14:50 | 45.93 | 39.43 | 703 | 1.15 | 0.22 | 38.4 |
| 4/30/2015 22:14:50 | 46.26 | 39.76 | 714 | 1.15 | 0.22 | 39.1 |
| 4/30/2015 22:14:50 | 46.59 | 40.09 | 710 | 1.14 | 0.22 | 38.8 |
| 4/30/2015 22:14:51 | 46.92 | 40.42 | 703 | 1.14 | 0.22 | 38.4 |
| 4/30/2015 22:14:51 | 47.24 | 40.74 | 702 | 1.14 | 0.21 | 38.4 |
| 4/30/2015 22:14:52 | 47.57 | 41.07 | 705 | 1.15 | 0.22 | 38.6 |
| 4/30/2015 22:14:53 | 47.90 | 41.40 | 705 | 1.13 | 0.22 | 38.6 |
| 4/30/2015 22:14:53 | 48.23 | 41.73 | 705 | 1.14 | 0.22 | 38.6 |
| 4/30/2015 22:14:54 | 48.56 | 42.06 | 705 | 1.15 | 0.21 | 38.6 |
| 4/30/2015 22:14:54 | 48.88 | 42.38 | 704 | 1.13 | 0.22 | 38.5 |
| 4/30/2015 22:14:55 | 49.21 | 42.71 | 696 | 1.13 | 0.21 | 38.1 |
| 4/30/2015 22:14:55 | 49.54 | 43.04 | 696 | 1.14 | 0.22 | 38.1 |
| 4/30/2015 22:14:56 | 49.87 | 43.37 | 701 | 1.13 | 0.21 | 38.3 |
| 4/30/2015 22:14:56 | 50.20 | 43.70 | 700 | 1.13 | 0.22 | 38.3 |
| 4/30/2015 22:14:57 | 50.53 | 44.03 | 685 | 1.14 | 0.21 | 37.5 |
| 4/30/2015 22:14:57 | 50.85 | 44.35 | 695 | 1.13 | 0.21 | 38.0 |
| 4/30/2015 22:14:58 | 51.18 | 44.68 | 705 | 1.14 | 0.21 | 38.5 |
| 4/30/2015 22:14:58 | 51.51 | 45.01 | 688 | 1.14 | 0.21 | 37.6 |
| 4/30/2015 22:14:59 | 51.84 | 45.34 | 688 | 1.14 | 0.21 | 37.6 |
| 4/30/2015 22:14:59 | 52.17 | 45.67 | 700 | 1.14 | 0.21 | 38.3 |
| 4/30/2015 22:15:00 | 52.49 | 45.99 | 707 | 1.15 | 0.22 | 38.6 |
| 4/30/2015 22:15:00 | 52.82 | 46.32 | 702 | 1.13 | 0.21 | 38.4 |
| 4/30/2015 22:15:01 | 53.15 | 46.65 | 705 | 1.15 | 0.22 | 38.6 |
| 4/30/2015 22:15:02 | 53.48 | 46.98 | 714 | 1.13 | 0.21 | 39.0 |
| 4/30/2015 22:15:02 | 53.81 | 47.31 | 681 | 1.13 | 0.21 | 37.3 |
| 4/30/2015 22:15:03 | 54.13 | 47.63 | 681 | 1.21 | 0.21 | 37.3 |
| 4/30/2015 22:15:44 | 54.46 | 47.96 | 0 | 1.23 | 1.26 | 0.0 |
| 4/30/2015 22:15:57 | 54.79 | 48.29 | 44 | 1.18 | 0.96 | 2.4 |
| 4/30/2015 22:16:10 | 55.12 | 48.62 | 26 | 1.19 | 0.96 | 1.4 |
| 4/30/2015 22:16:19 | 55.45 | 48.95 | 46 | 1.17 | 1.24 | 2.5 |
| 4/30/2015 22:16:22 | 55.77 | 49.27 | 125 | 1.11 | 1.20 | 6.9 |
| 4/30/2015 22:16:28 | 56.10 | 49.60 | 52 | 1.08 | 1.07 | 2.8 |
| 4/30/2015 22:16:33 | 56.43 | 49.93 | 72 | 1.09 | 1.13 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:16:48 | 56.76 | 50.26 | 41 | 1.09 | 1.11 | 2.2 |
| 4/30/2015 | 22:16:52 | 57.09 | 50.59 | 78 | 1.09 | 1.12 | 4.3 |
| 4/30/2015 | 22:16:59 | 57.41 | 50.91 | 55 | 1.11 | 1.09 | 3.0 |
| 4/30/2015 | 22:17:05 | 57.74 | 51.24 | 61 | 1.03 | 1.16 | 3.3 |
| 4/30/2015 | 22:17:11 | 58.07 | 51.57 | 66 | 1.19 | 1.10 | 3.6 |
| 4/30/2015 | 22:17:15 | 58.40 | 51.90 | 81 | 1.05 | 1.02 | 4.4 |
| 4/30/2015 | 22:17:20 | 58.73 | 52.23 | 72 | 1.09 | 1.11 | 3.9 |
| 4/30/2015 | 22:17:25 | 59.06 | 52.56 | 78 | 1.15 | 1.18 | 4.3 |
| 4/30/2015 | 22:17:35 | 59.38 | 52.88 | 52 | 1.06 | 1.00 | 2.8 |
| 4/30/2015 | 22:17:41 | 59.71 | 53.21 | 72 | 1.08 | 1.07 | 4.0 |
| 4/30/2015 | 22:17:44 | 60.04 | 53.54 | 95 | 1.12 | 1.09 | 5.2 |
| 4/30/2015 | 22:17:46 | 60.37 | 53.87 | 139 | 1.11 | 1.35 | 7.6 |
| 4/30/2015 | 22:17:48 | 60.70 | 54.20 | 193 | 1.05 | 1.01 | 10.6 |
| 4/30/2015 | 22:17:56 | 61.02 | 54.52 | 48 | 1.11 | 0.99 | 2.6 |
| 4/30/2015 | 22:18:02 | 61.30 | 54.80 | 54 | 1.27 | 1.12 | 2.9 |

## L25 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:11:42

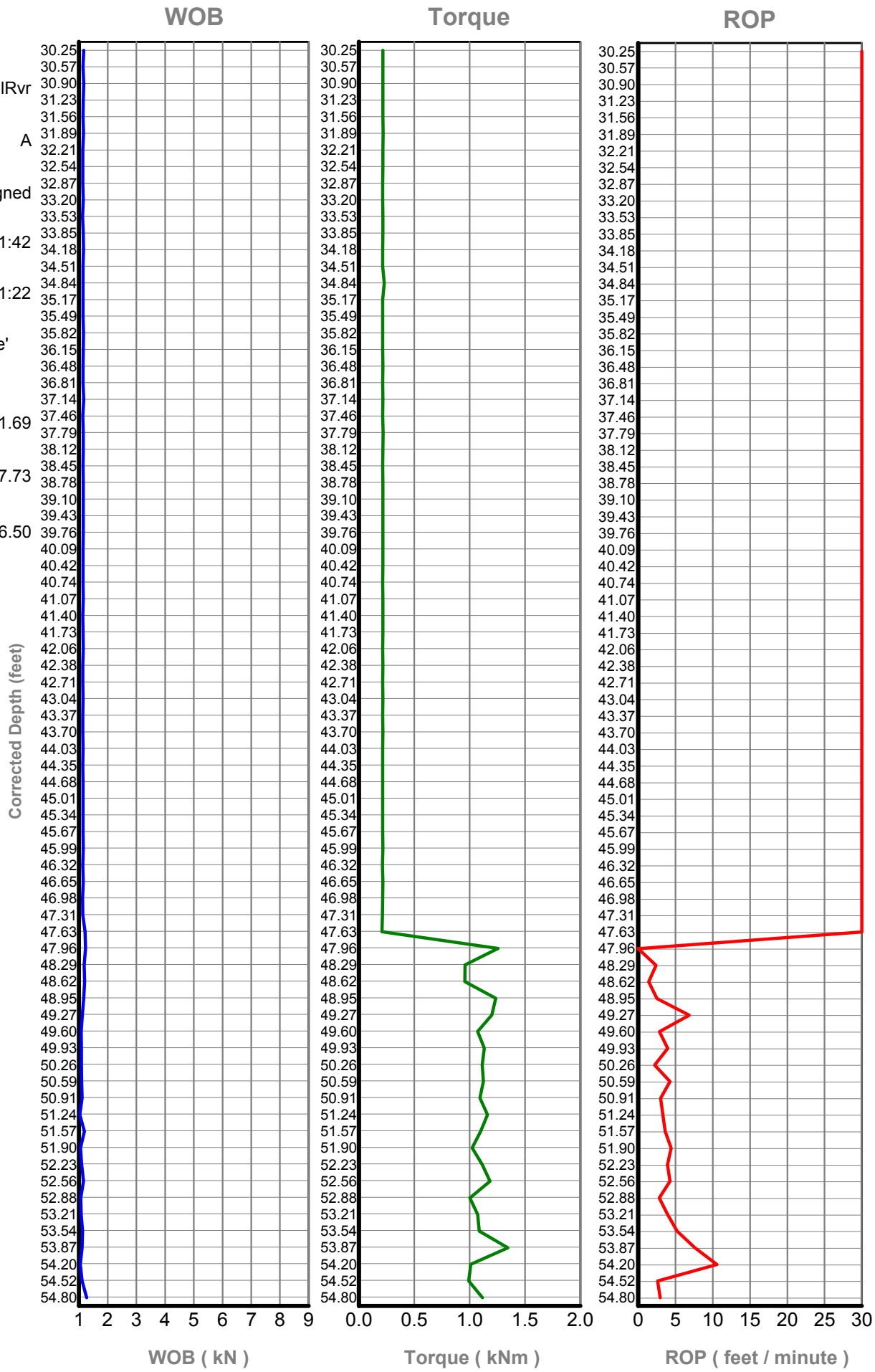
**End Date:**
4/30/2015 22:21:22

**Operator Note:**
'6.5 6.3 a Auto Complete'

**Northing:**
360,411.69

**Easting:**
242,667.73

**Tide (feet):**
6.50



## Hole: L26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:14:28 | 36.75 | 30.25 | 1,109 | 0.31 | 0.38 | 60.7 |
| 4/30/2015 22:14:28 | 37.07 | 30.57 | 1,113 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 22:14:29 | 37.40 | 30.90 | 1,113 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 22:14:29 | 37.73 | 31.23 | 1,104 | 0.31 | 0.37 | 60.4 |
| 4/30/2015 22:14:29 | 38.06 | 31.56 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/30/2015 22:14:30 | 38.39 | 31.89 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/30/2015 22:14:30 | 38.71 | 32.21 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/30/2015 22:14:30 | 39.04 | 32.54 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/30/2015 22:14:30 | 39.37 | 32.87 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/30/2015 22:14:31 | 39.70 | 33.20 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/30/2015 22:14:31 | 40.03 | 33.53 | 1,113 | 0.31 | 0.37 | 60.9 |
| 4/30/2015 22:14:31 | 40.35 | 33.85 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/30/2015 22:14:32 | 40.68 | 34.18 | 1,110 | 0.31 | 0.39 | 60.7 |
| 4/30/2015 22:14:32 | 41.01 | 34.51 | 1,110 | 0.31 | 0.39 | 60.7 |
| 4/30/2015 22:14:32 | 41.34 | 34.84 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/30/2015 22:14:33 | 41.67 | 35.17 | 1,107 | 0.31 | 0.37 | 60.5 |
| 4/30/2015 22:14:33 | 41.99 | 35.49 | 1,107 | 0.30 | 0.38 | 60.5 |
| 4/30/2015 22:14:33 | 42.32 | 35.82 | 1,113 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 22:14:34 | 42.65 | 36.15 | 1,113 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 22:14:34 | 42.98 | 36.48 | 1,113 | 0.31 | 0.38 | 60.9 |
| 4/30/2015 22:14:34 | 43.31 | 36.81 | 1,110 | 0.31 | 0.37 | 60.7 |
| 4/30/2015 22:14:35 | 43.64 | 37.14 | 1,110 | 0.31 | 0.37 | 60.7 |
| 4/30/2015 22:14:35 | 43.96 | 37.46 | 1,104 | 0.31 | 0.38 | 60.4 |
| 4/30/2015 22:14:35 | 44.29 | 37.79 | 1,104 | 0.31 | 0.38 | 60.4 |
| 4/30/2015 22:14:35 | 44.62 | 38.12 | 1,116 | 0.31 | 0.38 | 61.0 |
| 4/30/2015 22:14:36 | 44.95 | 38.45 | 1,111 | 0.31 | 0.38 | 60.7 |
| 4/30/2015 22:14:37 | 45.28 | 38.78 | 1,111 | 0.31 | 0.38 | 60.7 |
| 4/30/2015 22:14:37 | 45.60 | 39.10 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/30/2015 22:14:37 | 45.93 | 39.43 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/30/2015 22:14:37 | 46.26 | 39.76 | 1,104 | 0.31 | 0.37 | 60.4 |
| 4/30/2015 22:14:38 | 46.59 | 40.09 | 1,126 | 0.25 | 0.33 | 61.6 |
| 4/30/2015 22:15:17 | 46.92 | 40.42 | 0 | 0.32 | 0.37 | 0.0 |
| 4/30/2015 22:15:17 | 47.24 | 40.74 | 111 | 0.32 | 0.36 | 6.1 |
| 4/30/2015 22:15:18 | 47.57 | 41.07 | 111 | 0.32 | 0.36 | 6.1 |
| 4/30/2015 22:15:18 | 47.90 | 41.40 | 341 | 0.31 | 0.37 | 18.6 |
| 4/30/2015 22:15:19 | 48.23 | 41.73 | 564 | 0.30 | 0.37 | 30.8 |
| 4/30/2015 22:15:19 | 48.56 | 42.06 | 564 | 0.30 | 0.37 | 30.8 |
| 4/30/2015 22:15:19 | 48.88 | 42.38 | 784 | 0.30 | 0.38 | 42.9 |
| 4/30/2015 22:15:20 | 49.21 | 42.71 | 784 | 0.30 | 0.38 | 42.9 |
| 4/30/2015 22:15:20 | 49.54 | 43.04 | 1,009 | 0.31 | 0.38 | 55.2 |
| 4/30/2015 22:15:20 | 49.87 | 43.37 | 1,097 | 0.32 | 0.38 | 60.0 |
| 4/30/2015 22:15:21 | 50.20 | 43.70 | 1,097 | 0.32 | 0.38 | 60.0 |
| 4/30/2015 22:15:21 | 50.53 | 44.03 | 1,105 | 0.31 | 0.37 | 60.4 |
| 4/30/2015 22:15:21 | 50.85 | 44.35 | 1,118 | 0.32 | 0.37 | 61.2 |
| 4/30/2015 22:15:22 | 51.18 | 44.68 | 1,118 | 0.32 | 0.37 | 61.2 |
| 4/30/2015 22:15:22 | 51.51 | 45.01 | 1,106 | 0.31 | 0.37 | 60.5 |
| 4/30/2015 22:15:22 | 51.84 | 45.34 | 1,106 | 0.31 | 0.37 | 60.5 |
| 4/30/2015 22:15:22 | 52.17 | 45.67 | 1,109 | 0.31 | 0.37 | 60.7 |
| 4/30/2015 22:15:23 | 52.49 | 45.99 | 1,147 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 22:15:23 | 52.82 | 46.32 | 1,147 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 22:15:23 | 53.15 | 46.65 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:15:24 | 53.48 | 46.98 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:15:24 | 53.81 | 47.31 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/30/2015 22:15:24 | 54.13 | 47.63 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/30/2015 22:15:25 | 54.46 | 47.96 | 1,108 | 0.31 | 0.37 | 60.6 |
| 4/30/2015 22:15:25 | 54.79 | 48.29 | 1,147 | 0.31 | 0.31 | 62.7 |
| 4/30/2015 22:15:25 | 55.12 | 48.62 | 1,147 | 0.31 | 0.31 | 62.7 |
| 4/30/2015 22:15:25 | 55.45 | 48.95 | 1,120 | 0.30 | 0.43 | 61.2 |
| 4/30/2015 22:15:38 | 55.77 | 49.27 | 101 | 4.03 | 0.43 | 5.5 |
| 4/30/2015 22:15:40 | 56.10 | 49.60 | 190 | 4.24 | 0.49 | 10.4 |
| 4/30/2015 22:15:53 | 56.43 | 49.93 | 88 | 3.64 | 0.46 | 4.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:15:57 | 56.76 | 50.26 | 97 | 3.81 | 0.46 | 5.3 |
| 4/30/2015 | 22:16:00 | 57.09 | 50.59 | 112 | 3.71 | 0.46 | 6.1 |
| 4/30/2015 | 22:16:03 | 57.41 | 50.91 | 124 | 3.72 | 0.46 | 6.8 |
| 4/30/2015 | 22:16:06 | 57.74 | 51.24 | 110 | 3.84 | 0.46 | 6.0 |
| 4/30/2015 | 22:16:10 | 58.07 | 51.57 | 101 | 4.02 | 0.46 | 5.5 |
| 4/30/2015 | 22:16:16 | 58.40 | 51.90 | 58 | 3.73 | 0.46 | 3.2 |
| 4/30/2015 | 22:16:23 | 58.73 | 52.23 | 53 | 3.82 | 0.46 | 2.9 |
| 4/30/2015 | 22:16:28 | 59.06 | 52.56 | 61 | 3.85 | 0.45 | 3.3 |
| 4/30/2015 | 22:16:31 | 59.27 | 52.77 | 82 | 3.18 | 0.46 | 4.5 |

## L26 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:12:44

**End Date:**
4/30/2015 22:18:09

**Operator Note:**
'6.5 6.2b Auto Complete'

**Northing:**
360,452.13

**Easting:**
242,730.90

**Tide (feet):**
6.50



## Hole: L27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:12:53 | 36.75 | 30.25 | 956 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:54 | 37.07 | 30.57 | 956 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:54 | 37.40 | 30.90 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:12:54 | 37.73 | 31.23 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:55 | 38.06 | 31.56 | 963 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:12:55 | 38.39 | 31.89 | 963 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:12:55 | 38.71 | 32.21 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:12:56 | 39.04 | 32.54 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:12:57 | 39.37 | 32.87 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:12:56 | 39.70 | 33.20 | 943 | 1.14 | 0.29 | 51.6 |
| 4/30/2015 22:12:57 | 40.03 | 33.53 | 943 | 1.14 | 0.29 | 51.6 |
| 4/30/2015 22:12:57 | 40.35 | 33.85 | 956 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:58 | 40.68 | 34.18 | 956 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:58 | 41.01 | 34.51 | 956 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:59 | 41.34 | 34.84 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:59 | 41.67 | 35.17 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:12:59 | 41.99 | 35.49 | 962 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:13:00 | 42.32 | 35.82 | 970 | 1.14 | 0.29 | 53.0 |
| 4/30/2015 22:13:00 | 42.65 | 36.15 | 962 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:13:01 | 42.98 | 36.48 | 962 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:13:01 | 43.31 | 36.81 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:13:01 | 43.64 | 37.14 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:02 | 43.96 | 37.46 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:02 | 44.29 | 37.79 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:13:02 | 44.62 | 38.12 | 963 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:13:03 | 44.95 | 38.45 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:03 | 45.28 | 38.78 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:03 | 45.60 | 39.10 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:04 | 45.93 | 39.43 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:04 | 46.26 | 39.76 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:04 | 46.59 | 40.09 | 965 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:05 | 46.92 | 40.42 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:05 | 47.24 | 40.74 | 966 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:06 | 47.57 | 41.07 | 966 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:06 | 47.90 | 41.40 | 965 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:06 | 48.23 | 41.73 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:07 | 48.56 | 42.06 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:07 | 48.88 | 42.38 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:07 | 49.21 | 42.71 | 963 | 1.14 | 0.29 | 52.6 |
| 4/30/2015 22:13:08 | 49.54 | 43.04 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:08 | 49.87 | 43.37 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:08 | 50.20 | 43.70 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:09 | 50.53 | 44.03 | 968 | 1.14 | 0.29 | 52.9 |
| 4/30/2015 22:13:09 | 50.85 | 44.35 | 966 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:10 | 51.18 | 44.68 | 966 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 22:13:10 | 51.51 | 45.01 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:11 | 51.84 | 45.34 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:11 | 52.17 | 45.67 | 959 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:11 | 52.49 | 45.99 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:12 | 52.82 | 46.32 | 957 | 1.14 | 0.29 | 52.3 |
| 4/30/2015 22:13:12 | 53.15 | 46.65 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:13 | 53.48 | 46.98 | 954 | 1.14 | 0.29 | 52.2 |
| 4/30/2015 22:13:13 | 53.81 | 47.31 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:13 | 54.13 | 47.63 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:14 | 54.46 | 47.96 | 960 | 1.14 | 0.29 | 52.5 |
| 4/30/2015 22:13:14 | 54.79 | 48.29 | 951 | 1.14 | 0.29 | 52.0 |
| 4/30/2015 22:13:14 | 55.12 | 48.62 | 948 | 1.14 | 0.29 | 51.9 |
| 4/30/2015 22:13:29 | 55.45 | 48.95 | 77 | 1.14 | 0.29 | 4.2 |
| 4/30/2015 22:13:30 | 55.77 | 49.27 | 172 | 1.14 | 0.29 | 9.4 |
| 4/30/2015 22:13:30 | 56.10 | 49.60 | 287 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 22:13:31 | 56.43 | 49.93 | 395 | 1.14 | 0.29 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:13:43 | 56.76 | 50.26 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 22:13:44 | 57.09 | 50.59 | 179 | 1.14 | 0.29 | 9.8 |
| 4/30/2015 | 22:13:46 | 57.41 | 50.91 | 179 | 1.14 | 0.29 | 9.8 |
| 4/30/2015 | 22:13:46 | 57.74 | 51.24 | 282 | 1.14 | 0.29 | 15.4 |
| 4/30/2015 | 22:13:47 | 58.07 | 51.57 | 384 | 1.14 | 0.29 | 21.0 |
| 4/30/2015 | 22:13:52 | 58.40 | 51.90 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 22:13:55 | 58.73 | 52.23 | 32 | 1.14 | 0.29 | 1.8 |
| 4/30/2015 | 22:13:59 | 59.06 | 52.56 | 64 | 1.14 | 0.29 | 3.5 |
| 4/30/2015 | 22:14:02 | 59.38 | 52.88 | 129 | 1.14 | 0.29 | 7.1 |
| 4/30/2015 | 22:14:15 | 59.71 | 53.21 | 104 | 1.14 | 0.29 | 5.7 |
| 4/30/2015 | 22:14:23 | 60.04 | 53.54 | 48 | 1.14 | 0.29 | 2.6 |
| 4/30/2015 | 22:14:26 | 60.37 | 53.87 | 107 | 1.14 | 0.29 | 5.8 |
| 4/30/2015 | 22:14:31 | 60.70 | 54.20 | 79 | 1.14 | 0.29 | 4.3 |
| 4/30/2015 | 22:14:35 | 61.02 | 54.52 | 85 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 | 22:14:37 | 61.20 | 54.70 | 86 | 1.14 | 0.29 | 4.7 |

## L27 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 22:11:36

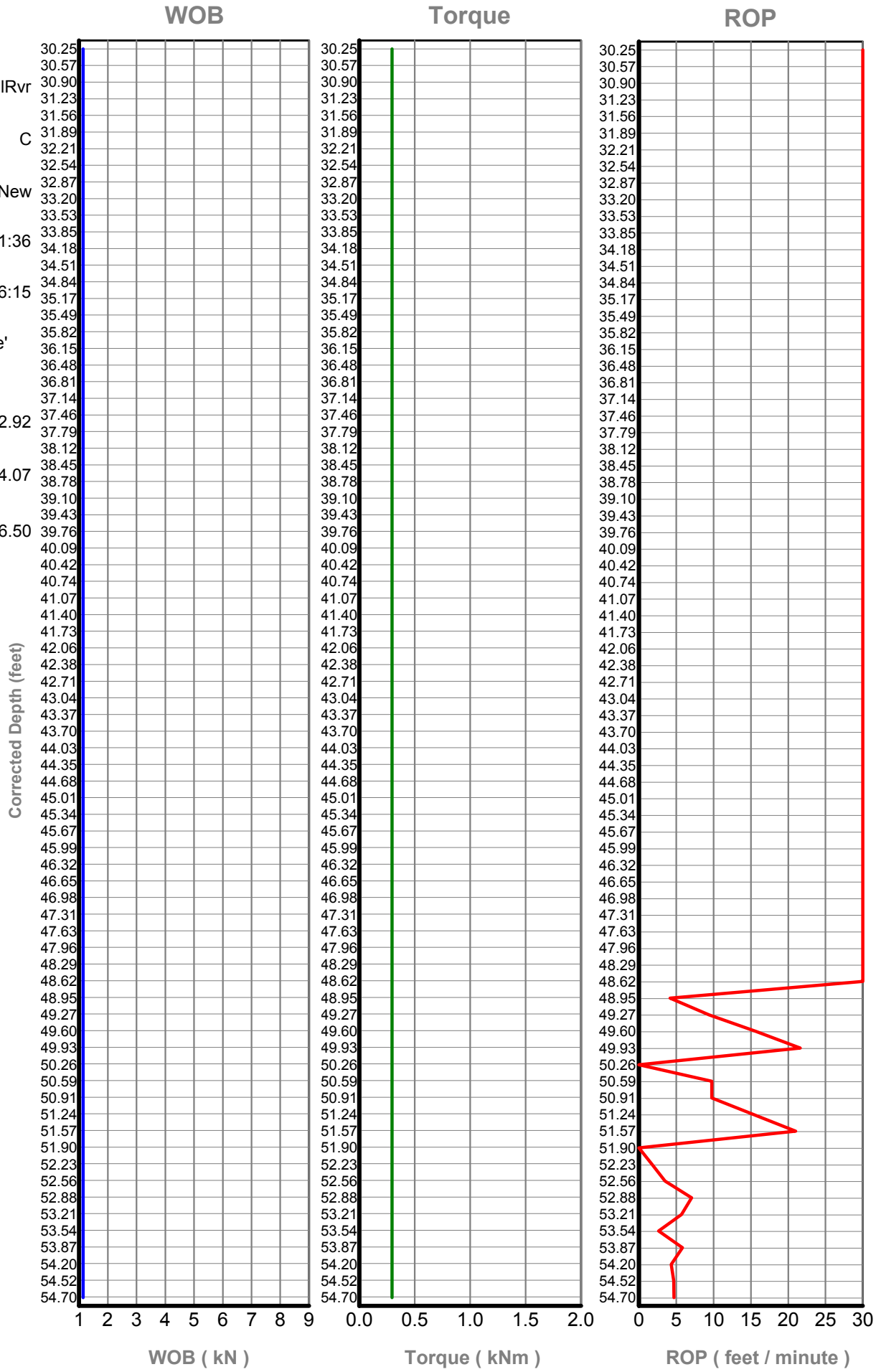
**End Date:**
4/30/2015 22:16:15

**Operator Note:**
'6.5 6.2 c Auto Complete'

**Northing:**
360,492.92

**Easting:**
242,794.07

**Tide (feet):**
6.50



## Hole: L28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:01:44 | 34.78 | 30.08 | 893 | 1.19 | 0.16 | 48.8 |
| 5/1/2015 14:01:45 | 35.11 | 30.41 | 888 | 1.19 | 0.16 | 48.6 |
| 5/1/2015 14:01:45 | 35.43 | 30.73 | 899 | 1.21 | 0.16 | 49.2 |
| 5/1/2015 14:01:46 | 35.76 | 31.06 | 899 | 1.21 | 0.16 | 49.2 |
| 5/1/2015 14:01:46 | 36.09 | 31.39 | 893 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 14:01:46 | 36.42 | 31.72 | 893 | 1.19 | 0.16 | 48.9 |
| 5/1/2015 14:01:47 | 36.75 | 32.05 | 896 | 1.18 | 0.16 | 49.0 |
| 5/1/2015 14:01:47 | 37.07 | 32.37 | 877 | 1.23 | 0.16 | 48.0 |
| 5/1/2015 14:01:48 | 37.40 | 32.70 | 877 | 1.23 | 0.16 | 48.0 |
| 5/1/2015 14:01:48 | 37.73 | 33.03 | 877 | 1.19 | 0.16 | 48.0 |
| 5/1/2015 14:01:48 | 38.06 | 33.36 | 883 | 1.18 | 0.16 | 48.3 |
| 5/1/2015 14:01:49 | 38.39 | 33.69 | 886 | 1.19 | 0.16 | 48.5 |
| 5/1/2015 14:01:50 | 38.71 | 34.01 | 886 | 1.19 | 0.16 | 48.5 |
| 5/1/2015 14:01:50 | 39.04 | 34.34 | 886 | 1.19 | 0.16 | 48.5 |
| 5/1/2015 14:01:50 | 39.37 | 34.67 | 888 | 1.19 | 0.16 | 48.5 |
| 5/1/2015 14:01:51 | 39.70 | 35.00 | 888 | 1.20 | 0.16 | 48.5 |
| 5/1/2015 14:01:51 | 40.03 | 35.33 | 888 | 1.20 | 0.16 | 48.5 |
| 5/1/2015 14:01:51 | 40.35 | 35.65 | 906 | 1.19 | 0.16 | 49.6 |
| 5/1/2015 14:01:52 | 40.68 | 35.98 | 898 | 1.20 | 0.16 | 49.1 |
| 5/1/2015 14:01:52 | 41.01 | 36.31 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 14:01:53 | 41.34 | 36.64 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 14:01:53 | 41.67 | 36.97 | 890 | 1.19 | 0.16 | 48.7 |
| 5/1/2015 14:01:53 | 41.99 | 37.29 | 887 | 1.20 | 0.15 | 48.5 |
| 5/1/2015 14:01:54 | 42.32 | 37.62 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 14:01:54 | 42.65 | 37.95 | 888 | 1.19 | 0.16 | 48.6 |
| 5/1/2015 14:01:55 | 42.98 | 38.28 | 888 | 1.19 | 0.16 | 48.6 |
| 5/1/2015 14:01:55 | 43.31 | 38.61 | 888 | 1.19 | 0.16 | 48.6 |
| 5/1/2015 14:01:55 | 43.64 | 38.94 | 883 | 1.17 | 0.16 | 48.3 |
| 5/1/2015 14:01:56 | 43.96 | 39.26 | 894 | 1.18 | 0.18 | 48.9 |
| 5/1/2015 14:01:56 | 44.29 | 39.59 | 894 | 1.18 | 0.18 | 48.9 |
| 5/1/2015 14:01:56 | 44.62 | 39.92 | 888 | 1.19 | 0.16 | 48.6 |
| 5/1/2015 14:01:57 | 44.95 | 40.25 | 888 | 1.18 | 0.16 | 48.6 |
| 5/1/2015 14:01:57 | 45.28 | 40.58 | 883 | 1.20 | 0.16 | 48.3 |
| 5/1/2015 14:01:58 | 45.60 | 40.90 | 891 | 1.20 | 0.16 | 48.7 |
| 5/1/2015 14:01:59 | 45.93 | 41.23 | 891 | 1.20 | 0.16 | 48.7 |
| 5/1/2015 14:01:58 | 46.26 | 41.56 | 866 | 1.17 | 0.16 | 47.4 |
| 5/1/2015 14:01:59 | 46.59 | 41.89 | 866 | 1.19 | 0.16 | 47.4 |
| 5/1/2015 14:01:59 | 46.92 | 42.22 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 14:02:00 | 47.24 | 42.54 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 14:02:00 | 47.57 | 42.87 | 876 | 1.19 | 0.16 | 47.9 |
| 5/1/2015 14:02:01 | 47.90 | 43.20 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 14:02:01 | 48.23 | 43.53 | 875 | 1.20 | 0.16 | 47.9 |
| 5/1/2015 14:02:02 | 48.56 | 43.86 | 892 | 1.18 | 0.16 | 48.8 |
| 5/1/2015 14:02:02 | 48.88 | 44.18 | 892 | 1.18 | 0.16 | 48.8 |
| 5/1/2015 14:02:02 | 49.21 | 44.51 | 884 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 14:02:03 | 49.54 | 44.84 | 881 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 14:02:03 | 49.87 | 45.17 | 881 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 14:02:04 | 50.20 | 45.50 | 881 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 14:02:04 | 50.53 | 45.83 | 879 | 1.18 | 0.16 | 48.1 |
| 5/1/2015 14:02:04 | 50.85 | 46.15 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 14:02:05 | 51.18 | 46.48 | 879 | 1.19 | 0.16 | 48.1 |
| 5/1/2015 14:02:05 | 51.51 | 46.81 | 879 | 1.19 | 0.16 | 48.1 |
| 5/1/2015 14:02:05 | 51.84 | 47.14 | 877 | 1.19 | 0.16 | 48.0 |
| 5/1/2015 14:02:06 | 52.17 | 47.47 | 877 | 1.28 | 0.16 | 48.0 |
| 5/1/2015 14:02:11 | 52.49 | 47.79 | 89 | 1.18 | 1.25 | 4.9 |
| 5/1/2015 14:02:14 | 52.82 | 48.12 | 156 | 1.19 | 1.16 | 8.5 |
| 5/1/2015 14:02:17 | 53.15 | 48.45 | 112 | 1.19 | 1.11 | 6.1 |
| 5/1/2015 14:02:22 | 53.48 | 48.78 | 64 | 1.15 | 1.26 | 3.5 |
| 5/1/2015 14:02:27 | 53.81 | 49.11 | 52 | 1.22 | 1.44 | 2.8 |
| 5/1/2015 14:02:31 | 54.13 | 49.43 | 98 | 1.21 | 1.33 | 5.4 |
| 5/1/2015 14:02:34 | 54.46 | 49.76 | 125 | 1.13 | 1.26 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:02:37 | 54.79 | 50.09 | 108 | 1.19 | 1.40 | 5.9 |
| 5/1/2015 | 14:02:40 | 55.12 | 50.42 | 127 | 1.19 | 1.23 | 7.0 |
| 5/1/2015 | 14:02:44 | 55.45 | 50.75 | 101 | 1.21 | 1.44 | 5.5 |
| 5/1/2015 | 14:02:47 | 55.77 | 51.07 | 90 | 1.11 | 1.26 | 4.9 |
| 5/1/2015 | 14:02:50 | 56.10 | 51.40 | 117 | 1.15 | 1.07 | 6.4 |
| 5/1/2015 | 14:02:53 | 56.43 | 51.73 | 135 | 1.13 | 1.30 | 7.4 |
| 5/1/2015 | 14:02:56 | 56.76 | 52.06 | 118 | 1.11 | 1.29 | 6.5 |
| 5/1/2015 | 14:02:59 | 57.09 | 52.39 | 116 | 1.15 | 1.33 | 6.3 |
| 5/1/2015 | 14:03:03 | 57.41 | 52.71 | 94 | 1.16 | 1.17 | 5.2 |
| 5/1/2015 | 14:03:06 | 57.74 | 53.04 | 110 | 1.17 | 1.26 | 6.0 |
| 5/1/2015 | 14:03:09 | 58.07 | 53.37 | 130 | 1.12 | 1.20 | 7.1 |
| 5/1/2015 | 14:03:12 | 58.40 | 53.70 | 125 | 1.16 | 1.13 | 6.8 |
| 5/1/2015 | 14:03:15 | 58.73 | 54.03 | 110 | 1.07 | 1.32 | 6.0 |
| 5/1/2015 | 14:03:18 | 59.06 | 54.36 | 110 | 1.11 | 1.20 | 6.0 |
| 5/1/2015 | 14:03:20 | 59.38 | 54.68 | 149 | 1.09 | 0.99 | 8.2 |
| 5/1/2015 | 14:03:23 | 59.71 | 55.01 | 173 | 1.15 | 1.08 | 9.5 |
| 5/1/2015 | 14:03:24 | 60.04 | 55.34 | 171 | 1.24 | 0.96 | 9.3 |

## L28 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:00:02

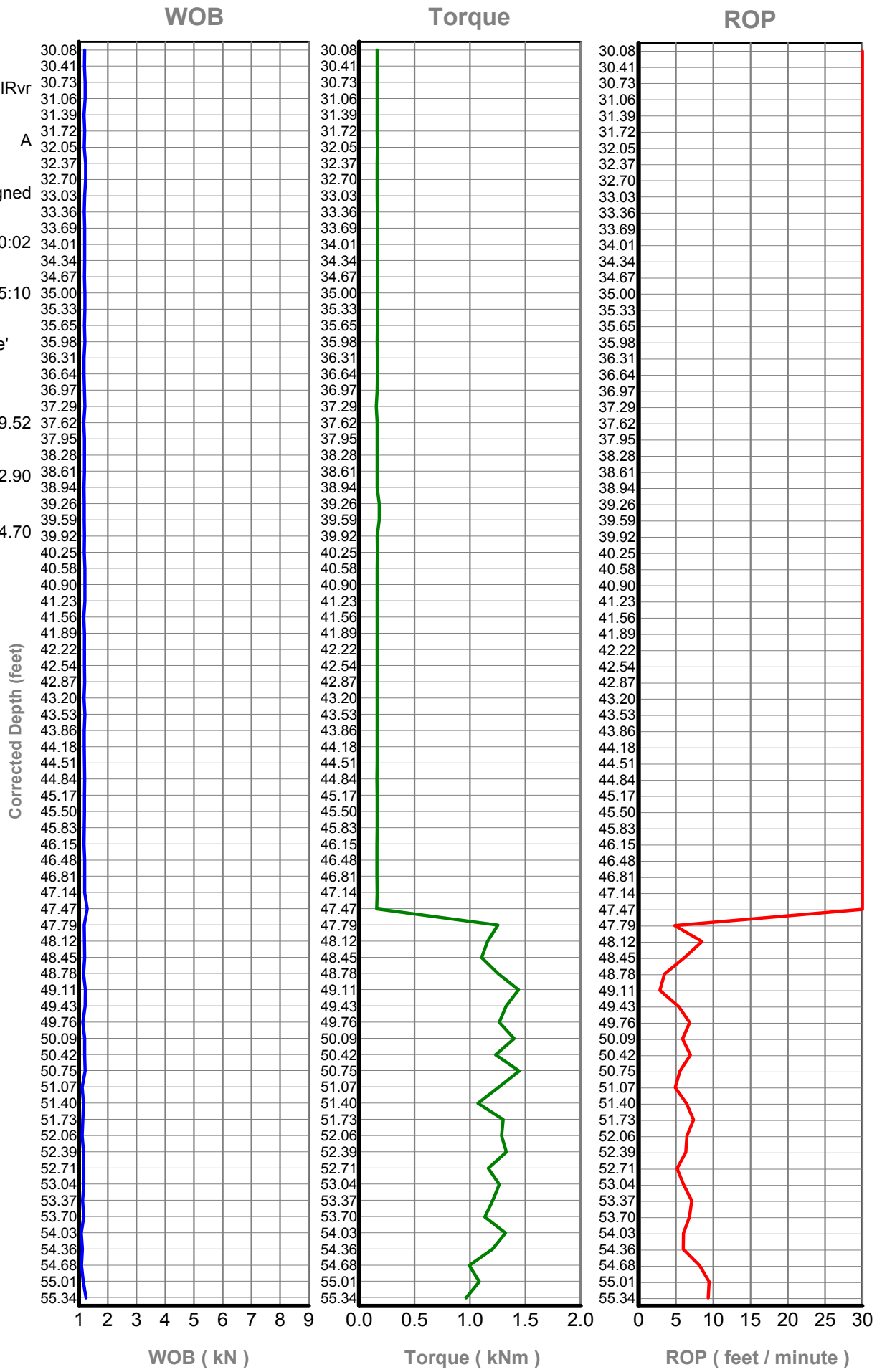
**End Date:**
5/1/2015 14:05:10

**Operator Note:**
'4.7 4.9 a Auto Complete'

**Northing:**
359,869.52

**Easting:**
241,942.90

**Tide (feet):**
4.70



## Hole: L29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:01:21 | 34.78 | 30.08 | 1,136 | 0.37 | 0.39 | 62.1 |
| 5/1/2015 14:01:21 | 35.11 | 30.41 | 1,136 | 0.37 | 0.39 | 62.1 |
| 5/1/2015 14:01:21 | 35.43 | 30.73 | 1,130 | 0.37 | 0.38 | 61.8 |
| 5/1/2015 14:01:22 | 35.76 | 31.06 | 1,130 | 0.36 | 0.38 | 61.8 |
| 5/1/2015 14:01:22 | 36.09 | 31.39 | 1,130 | 0.36 | 0.38 | 61.8 |
| 5/1/2015 14:01:22 | 36.42 | 31.72 | 1,108 | 0.31 | 0.37 | 60.6 |
| 5/1/2015 14:01:31 | 36.75 | 32.05 | 0 | 0.33 | 0.43 | 0.0 |
| 5/1/2015 14:01:31 | 37.07 | 32.37 | 71 | 0.37 | 0.39 | 3.9 |
| 5/1/2015 14:01:32 | 37.40 | 32.70 | 268 | 0.38 | 0.39 | 14.6 |
| 5/1/2015 14:01:32 | 37.73 | 33.03 | 268 | 0.38 | 0.39 | 14.6 |
| 5/1/2015 14:01:32 | 38.06 | 33.36 | 473 | 0.38 | 0.38 | 25.9 |
| 5/1/2015 14:01:33 | 38.39 | 33.69 | 685 | 0.37 | 0.39 | 37.5 |
| 5/1/2015 14:01:33 | 38.71 | 34.01 | 685 | 0.37 | 0.39 | 37.5 |
| 5/1/2015 14:01:33 | 39.04 | 34.34 | 894 | 0.36 | 0.38 | 48.9 |
| 5/1/2015 14:01:34 | 39.37 | 34.67 | 894 | 0.36 | 0.38 | 48.9 |
| 5/1/2015 14:01:34 | 39.70 | 35.00 | 1,035 | 0.29 | 0.39 | 56.6 |
| 5/1/2015 14:01:34 | 40.03 | 35.33 | 1,058 | 0.30 | 0.38 | 57.8 |
| 5/1/2015 14:01:35 | 40.35 | 35.65 | 1,058 | 0.30 | 0.38 | 57.8 |
| 5/1/2015 14:01:35 | 40.68 | 35.98 | 1,075 | 0.29 | 0.37 | 58.8 |
| 5/1/2015 14:01:35 | 41.01 | 36.31 | 1,093 | 0.29 | 0.37 | 59.7 |
| 5/1/2015 14:01:36 | 41.34 | 36.64 | 1,093 | 0.29 | 0.37 | 59.7 |
| 5/1/2015 14:01:36 | 41.67 | 36.97 | 1,116 | 0.29 | 0.37 | 61.0 |
| 5/1/2015 14:01:36 | 41.99 | 37.29 | 1,116 | 0.29 | 0.37 | 61.0 |
| 5/1/2015 14:01:36 | 42.32 | 37.62 | 1,130 | 0.29 | 0.38 | 61.8 |
| 5/1/2015 14:01:37 | 42.65 | 37.95 | 1,136 | 0.28 | 0.38 | 62.1 |
| 5/1/2015 14:01:37 | 42.98 | 38.28 | 1,136 | 0.28 | 0.38 | 62.1 |
| 5/1/2015 14:01:37 | 43.31 | 38.61 | 1,148 | 0.28 | 0.37 | 62.8 |
| 5/1/2015 14:01:38 | 43.64 | 38.94 | 1,148 | 0.28 | 0.37 | 62.8 |
| 5/1/2015 14:01:38 | 43.96 | 39.26 | 1,148 | 0.29 | 0.37 | 62.8 |
| 5/1/2015 14:01:38 | 44.29 | 39.59 | 1,151 | 0.29 | 0.37 | 62.9 |
| 5/1/2015 14:01:39 | 44.62 | 39.92 | 1,151 | 0.29 | 0.37 | 62.9 |
| 5/1/2015 14:01:39 | 44.95 | 40.25 | 1,144 | 0.29 | 0.37 | 62.6 |
| 5/1/2015 14:01:40 | 45.28 | 40.58 | 1,144 | 0.29 | 0.37 | 62.6 |
| 5/1/2015 14:01:40 | 45.60 | 40.90 | 1,157 | 0.29 | 0.38 | 63.3 |
| 5/1/2015 14:01:40 | 45.93 | 41.23 | 1,157 | 0.29 | 0.38 | 63.3 |
| 5/1/2015 14:01:40 | 46.26 | 41.56 | 1,141 | 0.29 | 0.36 | 62.4 |
| 5/1/2015 14:01:41 | 46.59 | 41.89 | 1,155 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 14:01:41 | 46.92 | 42.22 | 1,155 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 14:01:41 | 47.24 | 42.54 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:01:42 | 47.57 | 42.87 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:01:42 | 47.90 | 43.20 | 1,167 | 0.29 | 0.37 | 63.8 |
| 5/1/2015 14:01:42 | 48.23 | 43.53 | 1,157 | 0.29 | 0.37 | 63.3 |
| 5/1/2015 14:01:43 | 48.56 | 43.86 | 1,157 | 0.29 | 0.37 | 63.3 |
| 5/1/2015 14:01:43 | 48.88 | 44.18 | 1,173 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 14:01:43 | 49.21 | 44.51 | 1,173 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 14:01:43 | 49.54 | 44.84 | 1,162 | 0.29 | 0.36 | 63.6 |
| 5/1/2015 14:01:44 | 49.87 | 45.17 | 1,168 | 0.29 | 0.37 | 63.9 |
| 5/1/2015 14:01:44 | 50.20 | 45.50 | 1,168 | 0.29 | 0.37 | 63.9 |
| 5/1/2015 14:01:44 | 50.53 | 45.83 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:01:45 | 50.85 | 46.15 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:01:45 | 51.18 | 46.48 | 1,165 | 0.35 | 0.38 | 63.7 |
| 5/1/2015 14:01:45 | 51.51 | 46.81 | 1,152 | 0.28 | 0.37 | 63.0 |
| 5/1/2015 14:01:46 | 51.84 | 47.14 | 1,152 | 0.28 | 0.37 | 63.0 |
| 5/1/2015 14:01:46 | 52.17 | 47.47 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:01:46 | 52.49 | 47.79 | 1,145 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:01:46 | 52.82 | 48.12 | 1,137 | 0.28 | 0.39 | 62.2 |
| 5/1/2015 14:01:55 | 53.15 | 48.45 | 0 | 2.28 | 0.39 | 0.0 |
| 5/1/2015 14:02:04 | 53.48 | 48.78 | 0 | 2.28 | 0.39 | 0.0 |
| 5/1/2015 14:01:56 | 53.81 | 49.11 | 97 | 2.26 | 0.41 | 5.3 |
| 5/1/2015 14:01:56 | 54.13 | 49.43 | 271 | 2.78 | 0.42 | 14.8 |
| 5/1/2015 14:01:58 | 54.46 | 49.76 | 497 | 3.93 | 0.46 | 27.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:02:01 | 54.79 | 50.09 | 98 | 4.55 | 0.46 | 5.4 |
| 5/1/2015 | 14:02:05 | 55.12 | 50.42 | 114 | 4.24 | 0.46 | 6.2 |
| 5/1/2015 | 14:02:06 | 55.45 | 50.75 | 215 | 2.65 | 0.42 | 11.8 |
| 5/1/2015 | 14:02:06 | 55.77 | 51.07 | 285 | 3.06 | 0.42 | 15.6 |
| 5/1/2015 | 14:02:07 | 56.10 | 51.40 | 384 | 3.30 | 0.43 | 21.0 |
| 5/1/2015 | 14:02:07 | 56.43 | 51.73 | 471 | 3.39 | 0.42 | 25.7 |
| 5/1/2015 | 14:02:08 | 56.76 | 52.06 | 572 | 4.29 | 0.43 | 31.3 |
| 5/1/2015 | 14:02:09 | 57.09 | 52.39 | 565 | 5.08 | 0.44 | 30.9 |
| 5/1/2015 | 14:02:10 | 57.41 | 52.71 | 517 | 4.05 | 0.45 | 28.3 |
| 5/1/2015 | 14:02:21 | 57.74 | 53.04 | 44 | 4.54 | 0.45 | 2.4 |
| 5/1/2015 | 14:02:22 | 58.07 | 53.37 | 163 | 4.74 | 0.44 | 8.9 |
| 5/1/2015 | 14:02:24 | 58.40 | 53.70 | 256 | 4.72 | 0.46 | 14.0 |
| 5/1/2015 | 14:02:29 | 58.73 | 54.03 | 55 | 3.88 | 0.47 | 3.0 |
| 5/1/2015 | 14:02:33 | 59.06 | 54.36 | 122 | 7.07 | 0.46 | 6.6 |
| 5/1/2015 | 14:02:43 | 59.38 | 54.68 | 17 | 6.77 | 0.45 | 0.9 |
| 5/1/2015 | 14:02:46 | 59.71 | 55.01 | 127 | 3.61 | 0.46 | 6.9 |
| 5/1/2015 | 14:02:47 | 59.85 | 55.15 | 90 | 3.91 | 0.46 | 4.9 |

## L29 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:59:37

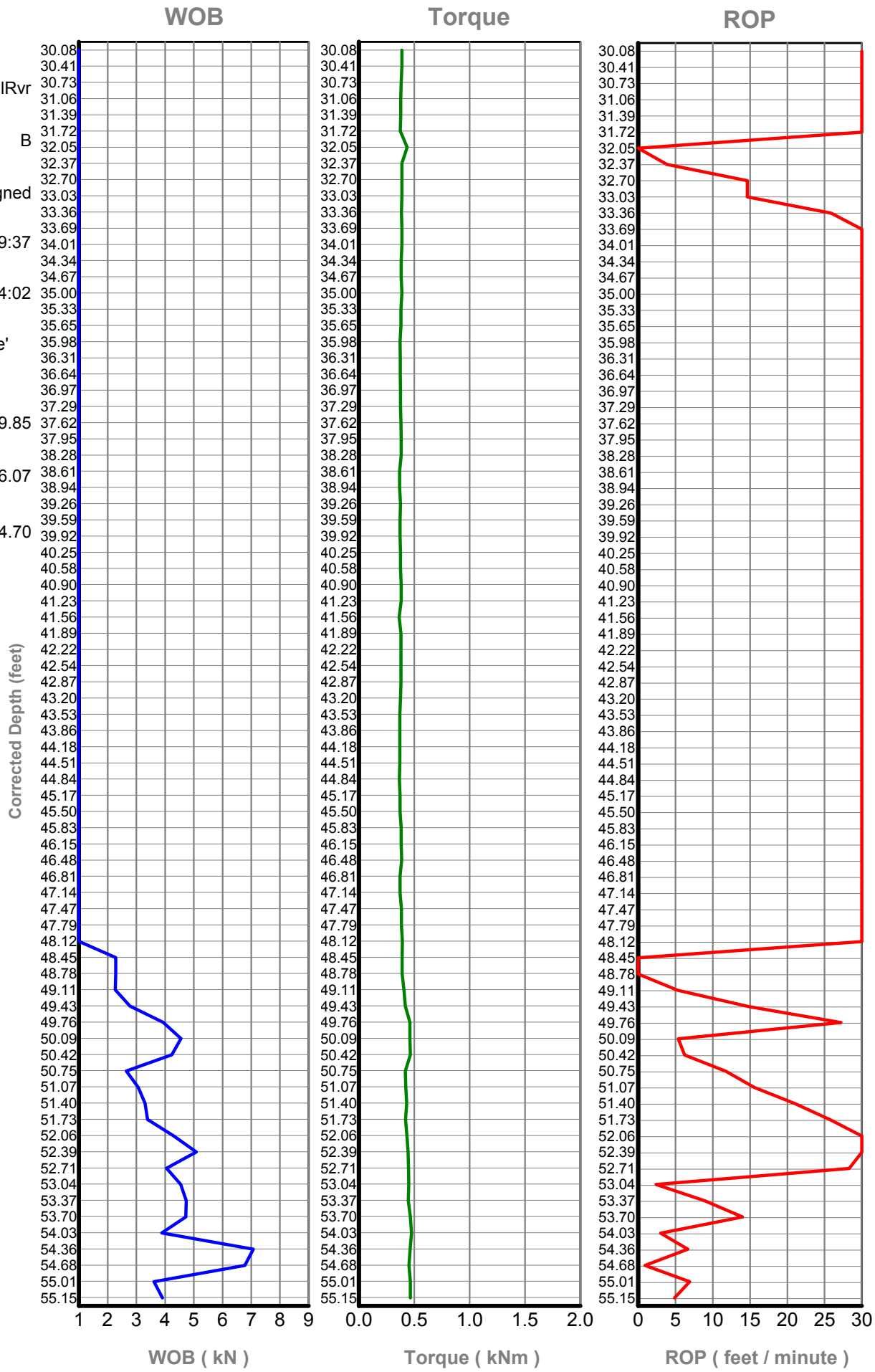
**End Date:**
5/1/2015 14:04:02

**Operator Note:**
'4.7 4.9 b Auto Complete'

**Northing:**
359,909.85

**Easting:**
242,006.07

**Tide (feet):**
4.70



## Hole: L3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 13:28:22 | 35.43 | 30.23 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:28:22 | 35.76 | 30.56 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:28:22 | 36.09 | 30.89 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:28:23 | 36.42 | 31.22 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:24 | 36.75 | 31.55 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:24 | 37.07 | 31.87 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 13:28:24 | 37.40 | 32.20 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:25 | 37.73 | 32.53 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:25 | 38.06 | 32.86 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 13:28:25 | 38.39 | 33.19 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 13:28:26 | 38.71 | 33.51 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 13:28:26 | 39.04 | 33.84 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:26 | 39.37 | 34.17 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:27 | 39.70 | 34.50 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:27 | 40.03 | 34.83 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:27 | 40.35 | 35.15 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:27 | 40.68 | 35.48 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 13:28:28 | 41.01 | 35.81 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 13:28:28 | 41.34 | 36.14 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 13:28:28 | 41.67 | 36.47 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 13:28:29 | 41.99 | 36.79 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:29 | 42.32 | 37.12 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:29 | 42.65 | 37.45 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:30 | 42.98 | 37.78 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:30 | 43.31 | 38.11 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 13:28:30 | 43.64 | 38.44 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:31 | 43.96 | 38.76 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:31 | 44.29 | 39.09 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:31 | 44.62 | 39.42 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 13:28:32 | 44.95 | 39.75 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:32 | 45.28 | 40.08 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:32 | 45.60 | 40.40 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 13:28:33 | 45.93 | 40.73 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 13:28:33 | 46.26 | 41.06 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 13:28:33 | 46.59 | 41.39 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 13:28:34 | 46.92 | 41.72 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 13:28:34 | 47.24 | 42.04 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 13:28:34 | 47.57 | 42.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 13:28:35 | 47.90 | 42.70 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:36 | 48.23 | 43.03 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:36 | 48.56 | 43.36 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 13:28:36 | 48.88 | 43.68 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:28:37 | 49.21 | 44.01 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 13:28:37 | 49.54 | 44.34 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:37 | 49.87 | 44.67 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:38 | 50.20 | 45.00 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:38 | 50.53 | 45.33 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:38 | 50.85 | 45.65 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:39 | 51.18 | 45.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 13:28:39 | 51.51 | 46.31 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 13:28:39 | 51.84 | 46.64 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 13:29:02 | 52.17 | 46.97 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 13:29:05 | 52.49 | 47.29 | 105 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 13:29:10 | 52.82 | 47.62 | 78 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 13:29:15 | 53.15 | 47.95 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 13:29:20 | 53.48 | 48.28 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 13:29:25 | 53.81 | 48.61 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 13:29:30 | 54.13 | 48.93 | 72 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 13:29:34 | 54.46 | 49.26 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 13:29:38 | 54.79 | 49.59 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 13:29:43 | 55.12 | 49.92 | 61 | 1.14 | 0.29 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 13:29:50 | 55.45 | 50.25 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 13:29:55 | 55.77 | 50.57 | 63 | 1.14 | 0.29 | 3.4 |
| 5/1/2015 | 13:29:58 | 55.95 | 50.75 | 64 | 1.14 | 0.29 | 3.5 |

## L3 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:27:10

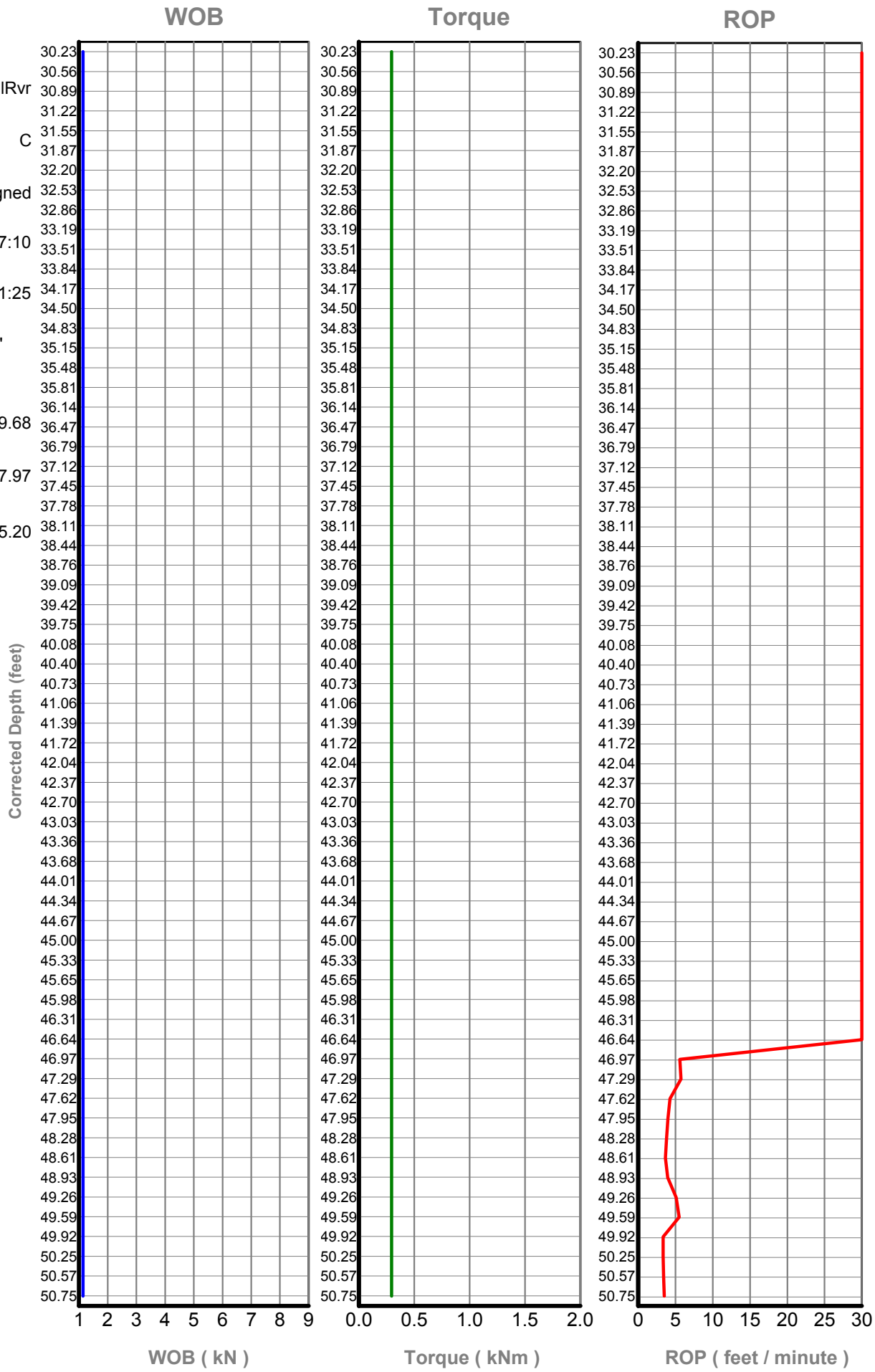
**End Date:**
5/1/2015 13:31:25

**Operator Note:**
'5.2 5.4c Auto Complete'

**Northing:**
360,079.68

**Easting:**
241,997.97

**Tide (feet):**
5.20



## Hole: L30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:00:38 | 34.78 | 30.08 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 14:00:39 | 35.11 | 30.41 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:39 | 35.43 | 30.73 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:39 | 35.76 | 31.06 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:40 | 36.09 | 31.39 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:41 | 36.42 | 31.72 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:41 | 36.75 | 32.05 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 14:00:41 | 37.07 | 32.37 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 14:00:42 | 37.40 | 32.70 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 14:00:42 | 37.73 | 33.03 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 14:00:42 | 38.06 | 33.36 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 14:00:43 | 38.39 | 33.69 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 14:00:43 | 38.71 | 34.01 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 14:00:43 | 39.04 | 34.34 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:00:44 | 39.37 | 34.67 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:00:44 | 39.70 | 35.00 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:44 | 40.03 | 35.33 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:45 | 40.35 | 35.65 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:45 | 40.68 | 35.98 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:00:45 | 41.01 | 36.31 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:46 | 41.34 | 36.64 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:46 | 41.67 | 36.97 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:46 | 41.99 | 37.29 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:46 | 42.32 | 37.62 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:00:47 | 42.65 | 37.95 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:47 | 42.98 | 38.28 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 14:00:47 | 43.31 | 38.61 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:00:48 | 43.64 | 38.94 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:48 | 43.96 | 39.26 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:48 | 44.29 | 39.59 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:49 | 44.62 | 39.92 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:49 | 44.95 | 40.25 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:49 | 45.28 | 40.58 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:00:50 | 45.60 | 40.90 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:00:50 | 45.93 | 41.23 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:00:50 | 46.26 | 41.56 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:00:51 | 46.59 | 41.89 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:00:51 | 46.92 | 42.22 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:00:51 | 47.24 | 42.54 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:52 | 47.57 | 42.87 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:00:53 | 47.90 | 43.20 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:00:53 | 48.23 | 43.53 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:53 | 48.56 | 43.86 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:53 | 48.88 | 44.18 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 14:00:54 | 49.21 | 44.51 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:00:54 | 49.54 | 44.84 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:00:54 | 49.87 | 45.17 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:55 | 50.20 | 45.50 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:00:55 | 50.53 | 45.83 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:00:55 | 50.85 | 46.15 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:00:56 | 51.18 | 46.48 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:56 | 51.51 | 46.81 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:00:56 | 51.84 | 47.14 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:00:57 | 52.17 | 47.47 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 14:00:57 | 52.49 | 47.79 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 14:01:11 | 52.82 | 48.12 | 51 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 14:01:12 | 53.15 | 48.45 | 152 | 1.14 | 0.29 | 8.3 |
| 5/1/2015 14:01:13 | 53.48 | 48.78 | 273 | 1.14 | 0.29 | 14.9 |
| 5/1/2015 14:01:16 | 53.81 | 49.11 | 169 | 1.14 | 0.29 | 9.2 |
| 5/1/2015 14:01:19 | 54.13 | 49.43 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 14:01:23 | 54.46 | 49.76 | 90 | 1.14 | 0.29 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:01:28 | 54.79 | 50.09 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 | 14:01:34 | 55.12 | 50.42 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 14:01:39 | 55.45 | 50.75 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 | 14:01:43 | 55.77 | 51.07 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 | 14:01:45 | 56.10 | 51.40 | 139 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 | 14:01:47 | 56.43 | 51.73 | 172 | 1.14 | 0.29 | 9.4 |
| 5/1/2015 | 14:01:50 | 56.76 | 52.06 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 | 14:01:57 | 57.09 | 52.39 | 98 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 | 14:02:00 | 57.41 | 52.71 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 14:02:04 | 57.74 | 53.04 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 14:02:07 | 58.07 | 53.37 | 107 | 1.14 | 0.29 | 5.8 |
| 5/1/2015 | 14:02:10 | 58.40 | 53.70 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 | 14:02:13 | 58.73 | 54.03 | 124 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 | 14:02:17 | 59.06 | 54.36 | 125 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 | 14:02:23 | 59.38 | 54.68 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 14:02:25 | 59.71 | 55.01 | 169 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 | 14:02:32 | 60.00 | 55.30 | 53 | 1.14 | 0.29 | 2.9 |

## L30 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 13:59:38

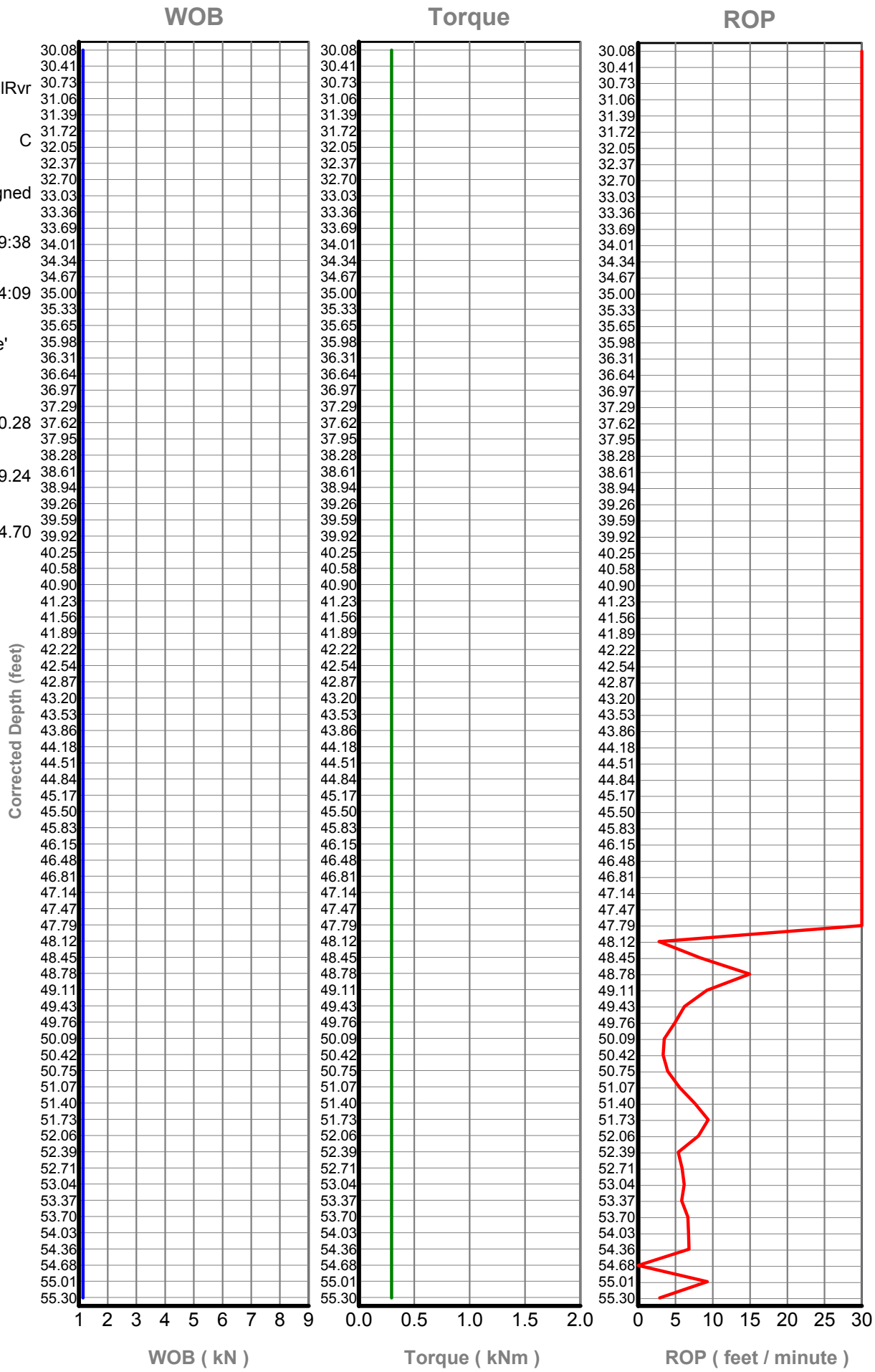
**End Date:**
5/1/2015 14:04:09

**Operator Note:**
'4.7 4.9 c Auto Complete'

**Northing:**
359,950.28

**Easting:**
242,069.24

**Tide (feet):**
4.70



## Hole: L31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:00:21 | 33.46 | 30.26 | 857 | 1.34 | 0.19 | 46.9 |
| 5/1/2015 8:00:21 | 33.79 | 30.59 | 857 | 1.36 | 0.19 | 46.8 |
| 5/1/2015 8:00:22 | 34.12 | 30.92 | 855 | 1.36 | 0.20 | 46.7 |
| 5/1/2015 8:00:22 | 34.45 | 31.25 | 855 | 1.36 | 0.20 | 46.7 |
| 5/1/2015 8:00:22 | 34.78 | 31.58 | 857 | 1.36 | 0.19 | 46.9 |
| 5/1/2015 8:00:23 | 35.11 | 31.91 | 879 | 1.36 | 0.19 | 48.0 |
| 5/1/2015 8:00:24 | 35.43 | 32.23 | 856 | 1.36 | 0.19 | 46.8 |
| 5/1/2015 8:00:24 | 35.76 | 32.56 | 864 | 1.37 | 0.19 | 47.3 |
| 5/1/2015 8:00:25 | 36.09 | 32.89 | 864 | 1.37 | 0.19 | 47.3 |
| 5/1/2015 8:00:25 | 36.42 | 33.22 | 861 | 1.36 | 0.19 | 47.1 |
| 5/1/2015 8:00:25 | 36.75 | 33.55 | 861 | 1.35 | 0.19 | 47.1 |
| 5/1/2015 8:00:26 | 37.07 | 33.87 | 857 | 1.36 | 0.19 | 46.8 |
| 5/1/2015 8:00:26 | 37.40 | 34.20 | 870 | 1.35 | 0.19 | 47.6 |
| 5/1/2015 8:00:27 | 37.73 | 34.53 | 870 | 1.35 | 0.19 | 47.6 |
| 5/1/2015 8:00:27 | 38.06 | 34.86 | 865 | 1.36 | 0.19 | 47.3 |
| 5/1/2015 8:00:27 | 38.39 | 35.19 | 862 | 1.35 | 0.19 | 47.1 |
| 5/1/2015 8:00:28 | 38.71 | 35.51 | 860 | 1.36 | 0.19 | 47.0 |
| 5/1/2015 8:00:28 | 39.04 | 35.84 | 870 | 1.36 | 0.19 | 47.6 |
| 5/1/2015 8:00:29 | 39.37 | 36.17 | 870 | 1.36 | 0.19 | 47.6 |
| 5/1/2015 8:00:29 | 39.70 | 36.50 | 859 | 1.35 | 0.19 | 47.0 |
| 5/1/2015 8:00:29 | 40.03 | 36.83 | 861 | 1.36 | 0.18 | 47.1 |
| 5/1/2015 8:00:30 | 40.35 | 37.15 | 861 | 1.36 | 0.19 | 47.1 |
| 5/1/2015 8:00:30 | 40.68 | 37.48 | 861 | 1.37 | 0.19 | 47.1 |
| 5/1/2015 8:00:31 | 41.01 | 37.81 | 861 | 1.37 | 0.19 | 47.1 |
| 5/1/2015 8:00:31 | 41.34 | 38.14 | 849 | 1.36 | 0.19 | 46.4 |
| 5/1/2015 8:00:31 | 41.67 | 38.47 | 849 | 1.35 | 0.18 | 46.4 |
| 5/1/2015 8:00:32 | 41.99 | 38.79 | 851 | 1.36 | 0.19 | 46.5 |
| 5/1/2015 8:00:32 | 42.32 | 39.12 | 854 | 1.36 | 0.19 | 46.7 |
| 5/1/2015 8:00:33 | 42.65 | 39.45 | 854 | 1.36 | 0.19 | 46.7 |
| 5/1/2015 8:00:33 | 42.98 | 39.78 | 859 | 1.35 | 0.19 | 47.0 |
| 5/1/2015 8:00:34 | 43.31 | 40.11 | 847 | 1.36 | 0.19 | 46.3 |
| 5/1/2015 8:00:34 | 43.64 | 40.44 | 856 | 1.35 | 0.19 | 46.8 |
| 5/1/2015 8:00:35 | 43.96 | 40.76 | 865 | 1.35 | 0.19 | 47.3 |
| 5/1/2015 8:00:35 | 44.29 | 41.09 | 865 | 1.35 | 0.19 | 47.3 |
| 5/1/2015 8:00:35 | 44.62 | 41.42 | 857 | 1.36 | 0.19 | 46.9 |
| 5/1/2015 8:00:36 | 44.95 | 41.75 | 857 | 1.30 | 0.19 | 46.9 |
| 5/1/2015 8:00:36 | 45.28 | 42.08 | 866 | 1.36 | 0.19 | 47.4 |
| 5/1/2015 8:00:37 | 45.60 | 42.40 | 864 | 1.37 | 0.11 | 47.3 |
| 5/1/2015 8:00:37 | 45.93 | 42.73 | 864 | 1.37 | 0.11 | 47.3 |
| 5/1/2015 8:00:37 | 46.26 | 43.06 | 856 | 1.34 | 0.19 | 46.8 |
| 5/1/2015 8:00:38 | 46.59 | 43.39 | 856 | 1.36 | 0.19 | 46.8 |
| 5/1/2015 8:00:38 | 46.92 | 43.72 | 850 | 1.36 | 0.18 | 46.5 |
| 5/1/2015 8:00:39 | 47.24 | 44.04 | 859 | 1.37 | 0.19 | 46.9 |
| 5/1/2015 8:00:39 | 47.57 | 44.37 | 859 | 1.37 | 0.19 | 46.9 |
| 5/1/2015 8:00:39 | 47.90 | 44.70 | 853 | 1.36 | 0.19 | 46.6 |
| 5/1/2015 8:00:40 | 48.23 | 45.03 | 853 | 1.35 | 0.19 | 46.6 |
| 5/1/2015 8:00:40 | 48.56 | 45.36 | 853 | 1.36 | 0.19 | 46.6 |
| 5/1/2015 8:00:41 | 48.88 | 45.68 | 851 | 1.37 | 0.19 | 46.5 |
| 5/1/2015 8:00:41 | 49.21 | 46.01 | 851 | 1.37 | 0.19 | 46.5 |
| 5/1/2015 8:00:41 | 49.54 | 46.34 | 843 | 1.36 | 0.19 | 46.1 |
| 5/1/2015 8:00:42 | 49.87 | 46.67 | 853 | 1.36 | 0.19 | 46.7 |
| 5/1/2015 8:00:42 | 50.20 | 47.00 | 848 | 1.38 | 0.19 | 46.4 |
| 5/1/2015 8:00:43 | 50.53 | 47.33 | 853 | 1.36 | 0.18 | 46.7 |
| 5/1/2015 8:00:43 | 50.85 | 47.65 | 853 | 1.36 | 0.18 | 46.7 |
| 5/1/2015 8:00:44 | 51.18 | 47.98 | 855 | 1.41 | 0.18 | 46.8 |
| 5/1/2015 8:00:59 | 51.51 | 48.31 | 0 | 1.36 | 0.83 | 0.0 |
| 5/1/2015 8:01:00 | 51.84 | 48.64 | 137 | 1.24 | 1.02 | 7.5 |
| 5/1/2015 8:01:05 | 52.17 | 48.97 | 9 | 1.20 | 1.31 | 0.5 |
| 5/1/2015 8:01:16 | 52.49 | 49.29 | 26 | 1.18 | 1.11 | 1.4 |
| 5/1/2015 8:01:28 | 52.82 | 49.62 | 28 | 1.26 | 1.09 | 1.5 |
| 5/1/2015 8:01:40 | 53.15 | 49.95 | 30 | 1.18 | 1.08 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:01:48 | 53.38 | 50.18 | 32 | 1.27 | 1.15 | 1.8 |

## L31 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 7:58:38

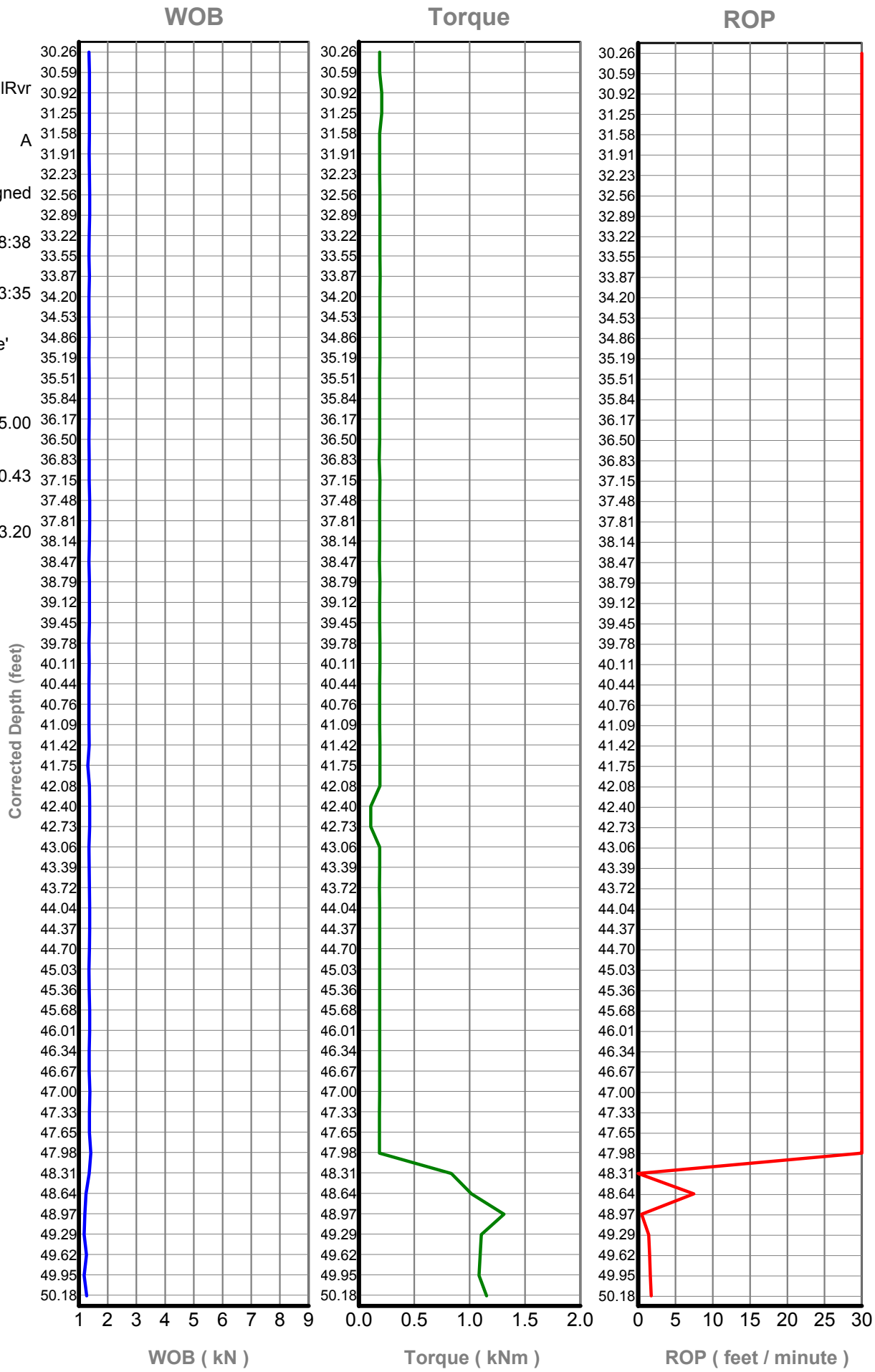
**End Date:**
5/1/2015 8:03:35

**Operator Note:**
'3.2 2.7 a Auto Complete'

**Northing:**
359,995.00

**Easting:**
242,140.43

**Tide (feet):**
3.20



## Hole: L32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:00:51 | 33.46 | 30.26 | 867 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:00:51 | 33.79 | 30.59 | 867 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:00:51 | 34.12 | 30.92 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:00:52 | 34.45 | 31.25 | 859 | 0.39 | 0.40 | 47.0 |
| 5/1/2015 8:00:52 | 34.78 | 31.58 | 861 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:00:53 | 35.11 | 31.91 | 851 | 0.41 | 0.40 | 46.6 |
| 5/1/2015 8:00:53 | 35.43 | 32.23 | 851 | 0.41 | 0.40 | 46.6 |
| 5/1/2015 8:00:53 | 35.76 | 32.56 | 860 | 0.41 | 0.40 | 47.0 |
| 5/1/2015 8:00:54 | 36.09 | 32.89 | 862 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:00:54 | 36.42 | 33.22 | 867 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:00:55 | 36.75 | 33.55 | 865 | 0.41 | 0.40 | 47.3 |
| 5/1/2015 8:00:55 | 37.07 | 33.87 | 865 | 0.41 | 0.40 | 47.3 |
| 5/1/2015 8:00:55 | 37.40 | 34.20 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:00:56 | 37.73 | 34.53 | 866 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:00:56 | 38.06 | 34.86 | 861 | 0.41 | 0.49 | 47.1 |
| 5/1/2015 8:00:57 | 38.39 | 35.19 | 857 | 0.41 | 0.40 | 46.8 |
| 5/1/2015 8:00:57 | 38.71 | 35.51 | 857 | 0.41 | 0.40 | 46.8 |
| 5/1/2015 8:00:57 | 39.04 | 35.84 | 861 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:00:58 | 39.37 | 36.17 | 866 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:00:58 | 39.70 | 36.50 | 861 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:00:59 | 40.03 | 36.83 | 864 | 0.41 | 0.40 | 47.3 |
| 5/1/2015 8:00:59 | 40.35 | 37.15 | 864 | 0.41 | 0.40 | 47.3 |
| 5/1/2015 8:00:59 | 40.68 | 37.48 | 872 | 0.41 | 0.40 | 47.7 |
| 5/1/2015 8:01:00 | 41.01 | 37.81 | 867 | 0.41 | 0.40 | 47.4 |
| 5/1/2015 8:01:01 | 41.34 | 38.14 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:01 | 41.67 | 38.47 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:01 | 41.99 | 38.79 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:02 | 42.32 | 39.12 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:02 | 42.65 | 39.45 | 865 | 0.41 | 0.40 | 47.3 |
| 5/1/2015 8:01:03 | 42.98 | 39.78 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:03 | 43.31 | 40.11 | 870 | 0.41 | 0.40 | 47.6 |
| 5/1/2015 8:01:03 | 43.64 | 40.44 | 850 | 0.45 | 0.40 | 46.5 |
| 5/1/2015 8:01:04 | 43.96 | 40.76 | 850 | 0.41 | 0.40 | 46.5 |
| 5/1/2015 8:01:04 | 44.29 | 41.09 | 859 | 0.41 | 0.40 | 47.0 |
| 5/1/2015 8:01:05 | 44.62 | 41.42 | 861 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:01:05 | 44.95 | 41.75 | 861 | 0.41 | 0.40 | 47.1 |
| 5/1/2015 8:03:42 | 45.28 | 42.08 | 0 | 0.38 | 0.38 | 0.0 |
| 5/1/2015 8:03:42 | 45.60 | 42.40 | 140 | 0.39 | 0.38 | 7.7 |
| 5/1/2015 8:03:43 | 45.93 | 42.73 | 343 | 0.38 | 0.38 | 18.8 |
| 5/1/2015 8:03:43 | 46.26 | 43.06 | 343 | 0.38 | 0.38 | 18.8 |
| 5/1/2015 8:03:43 | 46.59 | 43.39 | 552 | 0.39 | 0.38 | 30.2 |
| 5/1/2015 8:03:44 | 46.92 | 43.72 | 755 | 0.39 | 0.38 | 41.3 |
| 5/1/2015 8:03:44 | 47.24 | 44.04 | 755 | 0.39 | 0.38 | 41.3 |
| 5/1/2015 8:03:44 | 47.57 | 44.37 | 963 | 0.38 | 0.38 | 52.7 |
| 5/1/2015 8:03:45 | 47.90 | 44.70 | 1,026 | 0.38 | 0.38 | 56.1 |
| 5/1/2015 8:03:45 | 48.23 | 45.03 | 1,026 | 0.38 | 0.38 | 56.1 |
| 5/1/2015 8:03:45 | 48.56 | 45.36 | 1,032 | 0.38 | 0.38 | 56.5 |
| 5/1/2015 8:03:46 | 48.88 | 45.68 | 1,026 | 0.39 | 0.38 | 56.1 |
| 5/1/2015 8:03:47 | 49.21 | 46.01 | 1,026 | 0.39 | 0.38 | 56.1 |
| 5/1/2015 8:03:47 | 49.54 | 46.34 | 1,026 | 0.38 | 0.38 | 56.1 |
| 5/1/2015 8:03:47 | 49.87 | 46.67 | 1,020 | 0.38 | 0.38 | 55.8 |
| 5/1/2015 8:03:48 | 50.20 | 47.00 | 1,020 | 0.38 | 0.38 | 55.8 |
| 5/1/2015 8:03:48 | 50.53 | 47.33 | 1,029 | 0.38 | 0.38 | 56.3 |
| 5/1/2015 8:03:48 | 50.85 | 47.65 | 1,023 | 0.39 | 0.38 | 55.9 |
| 5/1/2015 8:03:49 | 51.18 | 47.98 | 1,023 | 0.39 | 0.38 | 55.9 |
| 5/1/2015 8:03:49 | 51.51 | 48.31 | 1,023 | 0.37 | 0.40 | 56.0 |
| 5/1/2015 8:04:06 | 51.84 | 48.64 | 58 | 4.56 | 0.47 | 3.2 |
| 5/1/2015 8:04:12 | 52.17 | 48.97 | 94 | 4.58 | 0.46 | 5.1 |
| 5/1/2015 8:04:15 | 52.49 | 49.29 | 126 | 4.46 | 0.47 | 6.9 |
| 5/1/2015 8:04:24 | 52.82 | 49.62 | 9 | 5.20 | 0.44 | 0.5 |
| 5/1/2015 8:04:26 | 53.15 | 49.95 | 127 | 4.47 | 0.48 | 6.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:04:29 | 53.48 | 50.28 | 129 | 4.68 | 0.46 | 7.1 |
| 5/1/2015 | 8:04:32 | 53.81 | 50.61 | 139 | 4.78 | 0.46 | 7.6 |
| 5/1/2015 | 8:04:35 | 54.13 | 50.93 | 83 | 4.02 | 0.47 | 4.6 |
| 5/1/2015 | 8:04:42 | 54.46 | 51.26 | 47 | 3.59 | 0.49 | 2.6 |
| 5/1/2015 | 8:04:50 | 54.79 | 51.59 | 38 | 3.52 | 0.48 | 2.1 |
| 5/1/2015 | 8:04:59 | 55.12 | 51.92 | 38 | 3.48 | 0.48 | 2.1 |
| 5/1/2015 | 8:05:03 | 55.28 | 52.08 | 41 | 3.46 | 0.47 | 2.2 |

## L32 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 7:58:49

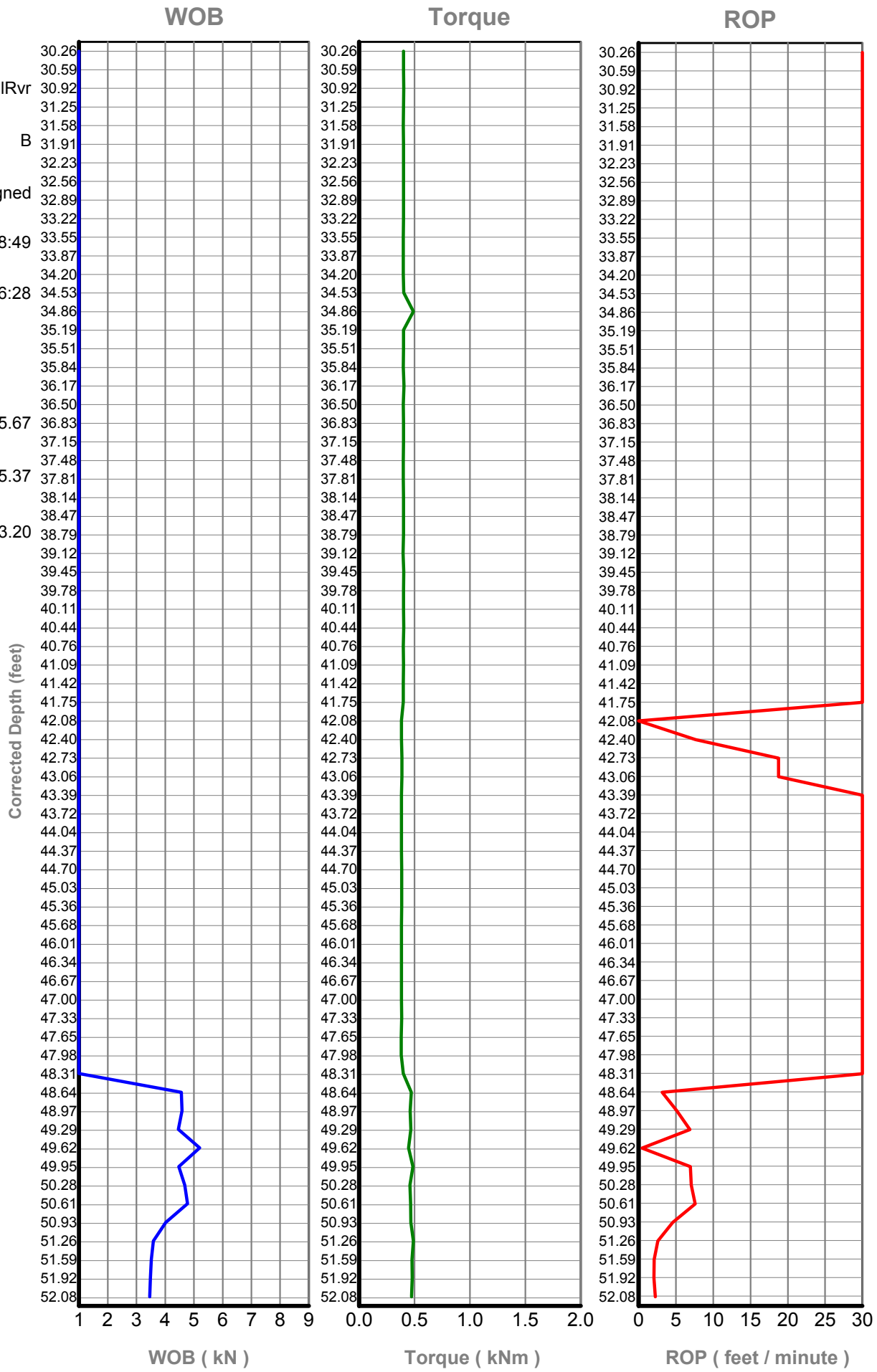
**End Date:**
5/1/2015 8:06:28

**Operator Note:**
'3.2 2.7 b Rock'

**Northing:**
360,035.67

**Easting:**
242,205.37

**Tide (feet):**
3.20



## Hole: L33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 7:59:56 | 33.46 | 30.26 | 920 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 7:59:56 | 33.79 | 30.59 | 928 | 1.14 | 0.29 | 50.7 |
| 5/1/2015 7:59:57 | 34.12 | 30.92 | 928 | 1.14 | 0.29 | 50.7 |
| 5/1/2015 7:59:57 | 34.45 | 31.25 | 923 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 7:59:57 | 34.78 | 31.58 | 930 | 1.14 | 0.29 | 50.9 |
| 5/1/2015 7:59:58 | 35.11 | 31.91 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 7:59:58 | 35.43 | 32.23 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 7:59:58 | 35.76 | 32.56 | 919 | 1.14 | 0.29 | 50.2 |
| 5/1/2015 7:59:59 | 36.09 | 32.89 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 7:59:59 | 36.42 | 33.22 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:00 | 36.75 | 33.55 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:00 | 37.07 | 33.87 | 914 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 8:00:00 | 37.40 | 34.20 | 922 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 8:00:01 | 37.73 | 34.53 | 912 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:01 | 38.06 | 34.86 | 912 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:01 | 38.39 | 35.19 | 923 | 1.14 | 0.29 | 50.5 |
| 5/1/2015 8:00:02 | 38.71 | 35.51 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:02 | 39.04 | 35.84 | 920 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:03 | 39.37 | 36.17 | 920 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:03 | 39.70 | 36.50 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:03 | 40.03 | 36.83 | 925 | 1.14 | 0.29 | 50.6 |
| 5/1/2015 8:00:04 | 40.35 | 37.15 | 919 | 1.14 | 0.29 | 50.2 |
| 5/1/2015 8:00:04 | 40.68 | 37.48 | 919 | 1.14 | 0.29 | 50.2 |
| 5/1/2015 8:00:04 | 41.01 | 37.81 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:05 | 41.34 | 38.14 | 922 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 8:00:05 | 41.67 | 38.47 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:06 | 41.99 | 38.79 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:06 | 42.32 | 39.12 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:07 | 42.65 | 39.45 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 8:00:07 | 42.98 | 39.78 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:08 | 43.31 | 40.11 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:08 | 43.64 | 40.44 | 913 | 1.14 | 0.29 | 49.9 |
| 5/1/2015 8:00:08 | 43.96 | 40.76 | 913 | 1.14 | 0.29 | 49.9 |
| 5/1/2015 8:00:09 | 44.29 | 41.09 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:09 | 44.62 | 41.42 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:09 | 44.95 | 41.75 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:10 | 45.28 | 42.08 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:10 | 45.60 | 42.40 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:11 | 45.93 | 42.73 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:11 | 46.26 | 43.06 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:11 | 46.59 | 43.39 | 913 | 1.14 | 0.29 | 49.9 |
| 5/1/2015 8:00:12 | 46.92 | 43.72 | 913 | 1.14 | 0.29 | 49.9 |
| 5/1/2015 8:00:12 | 47.24 | 44.04 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:13 | 47.57 | 44.37 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:13 | 47.90 | 44.70 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:13 | 48.23 | 45.03 | 916 | 1.14 | 0.29 | 50.1 |
| 5/1/2015 8:00:14 | 48.56 | 45.36 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:14 | 48.88 | 45.68 | 911 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 8:00:14 | 49.21 | 46.01 | 908 | 1.14 | 0.29 | 49.6 |
| 5/1/2015 8:00:15 | 49.54 | 46.34 | 908 | 1.14 | 0.29 | 49.6 |
| 5/1/2015 8:00:15 | 49.87 | 46.67 | 915 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 8:00:16 | 50.20 | 47.00 | 915 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 8:00:16 | 50.53 | 47.33 | 915 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 8:00:16 | 50.85 | 47.65 | 915 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 8:00:31 | 51.18 | 47.98 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 8:00:32 | 51.51 | 48.31 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 8:00:32 | 51.84 | 48.64 | 238 | 1.14 | 0.29 | 13.0 |
| 5/1/2015 8:00:33 | 52.17 | 48.97 | 364 | 1.14 | 0.29 | 19.9 |
| 5/1/2015 8:00:38 | 52.49 | 49.29 | 12 | 1.14 | 0.29 | 0.6 |
| 5/1/2015 8:00:41 | 52.82 | 49.62 | 128 | 1.14 | 0.29 | 7.0 |
| 5/1/2015 8:00:42 | 53.15 | 49.95 | 134 | 1.14 | 0.29 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:00:49 | 53.48 | 50.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 8:00:50 | 53.81 | 50.61 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 | 8:00:50 | 54.13 | 50.93 | 227 | 1.14 | 0.29 | 12.4 |
| 5/1/2015 | 8:00:51 | 54.46 | 51.26 | 429 | 1.14 | 0.29 | 23.5 |
| 5/1/2015 | 8:00:52 | 54.79 | 51.59 | 494 | 1.14 | 0.29 | 27.0 |
| 5/1/2015 | 8:00:52 | 55.12 | 51.92 | 506 | 1.14 | 0.29 | 27.7 |
| 5/1/2015 | 8:01:07 | 55.45 | 52.25 | 9 | 1.14 | 0.29 | 0.5 |
| 5/1/2015 | 8:01:07 | 55.77 | 52.57 | 132 | 1.14 | 0.29 | 7.2 |
| 5/1/2015 | 8:01:08 | 56.10 | 52.90 | 350 | 1.14 | 0.29 | 19.1 |
| 5/1/2015 | 8:01:09 | 56.43 | 53.23 | 428 | 1.14 | 0.29 | 23.4 |
| 5/1/2015 | 8:01:11 | 56.76 | 53.56 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 | 8:01:12 | 57.09 | 53.89 | 237 | 1.14 | 0.29 | 12.9 |
| 5/1/2015 | 8:01:15 | 57.41 | 54.21 | 176 | 1.14 | 0.29 | 9.6 |
| 5/1/2015 | 8:01:17 | 57.72 | 54.52 | 140 | 1.14 | 0.29 | 7.6 |

## L33 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 7:58:40

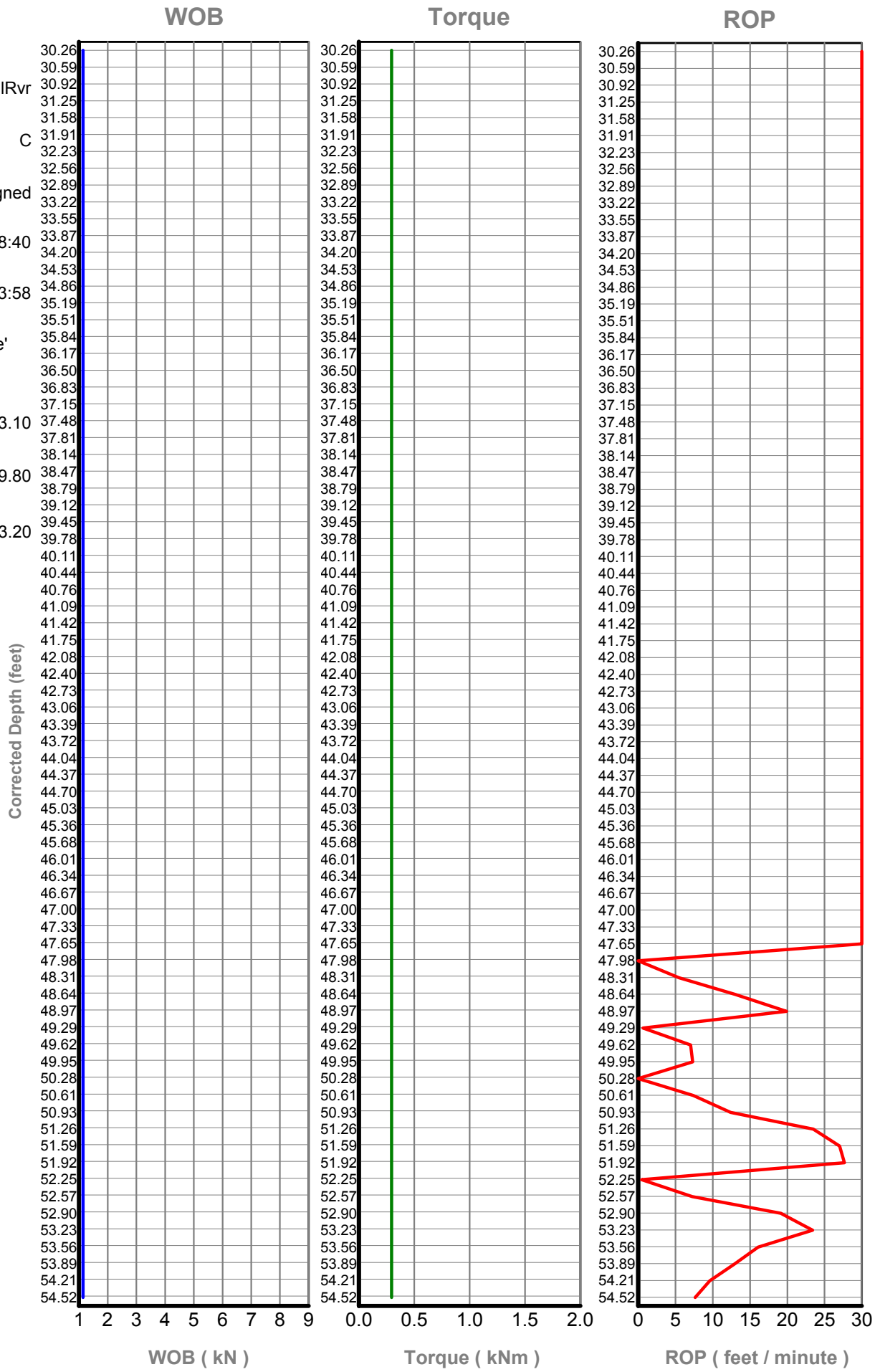
**End Date:**
5/1/2015 8:03:58

**Operator Note:**
'3.2 2.7 c Auto Complete'

**Northing:**
360,073.10

**Easting:**
242,269.80

**Tide (feet):**
3.20



## Hole: L34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:03:43 | 33.46 | 30.16 | 1,197 | 1.85 | 0.77 | 65.5 |
| 5/1/2015 3:03:43 | 33.79 | 30.49 | 1,197 | 1.85 | 0.77 | 65.5 |
| 5/1/2015 3:03:43 | 34.12 | 30.82 | 1,165 | 1.86 | 0.78 | 63.7 |
| 5/1/2015 3:03:44 | 34.45 | 31.15 | 1,165 | 1.86 | 0.80 | 63.7 |
| 5/1/2015 3:03:44 | 34.78 | 31.48 | 1,165 | 1.86 | 0.80 | 63.7 |
| 5/1/2015 3:03:44 | 35.11 | 31.81 | 1,185 | 1.83 | 0.79 | 64.8 |
| 5/1/2015 3:03:45 | 35.43 | 32.13 | 1,185 | 1.83 | 0.79 | 64.8 |
| 5/1/2015 3:03:45 | 35.76 | 32.46 | 1,191 | 1.86 | 0.82 | 65.1 |
| 5/1/2015 3:03:45 | 36.09 | 32.79 | 1,191 | 1.86 | 0.82 | 65.1 |
| 5/1/2015 3:03:45 | 36.42 | 33.12 | 1,186 | 1.85 | 0.82 | 64.8 |
| 5/1/2015 3:03:46 | 36.75 | 33.45 | 1,175 | 1.82 | 0.80 | 64.3 |
| 5/1/2015 3:03:46 | 37.07 | 33.77 | 1,175 | 1.82 | 0.80 | 64.3 |
| 5/1/2015 3:03:46 | 37.40 | 34.10 | 1,211 | 1.85 | 0.79 | 66.2 |
| 5/1/2015 3:03:47 | 37.73 | 34.43 | 1,211 | 1.85 | 0.79 | 66.2 |
| 5/1/2015 3:03:47 | 38.06 | 34.76 | 1,191 | 1.86 | 0.79 | 65.1 |
| 5/1/2015 3:03:47 | 38.39 | 35.09 | 1,191 | 1.86 | 0.79 | 65.1 |
| 5/1/2015 3:03:47 | 38.71 | 35.41 | 1,194 | 1.85 | 0.81 | 65.3 |
| 5/1/2015 3:03:48 | 39.04 | 35.74 | 1,187 | 1.83 | 0.79 | 64.9 |
| 5/1/2015 3:03:48 | 39.37 | 36.07 | 1,187 | 1.83 | 0.79 | 64.9 |
| 5/1/2015 3:03:48 | 39.70 | 36.40 | 1,200 | 1.82 | 0.25 | 65.6 |
| 5/1/2015 3:03:49 | 40.03 | 36.73 | 1,200 | 1.82 | 0.25 | 65.6 |
| 5/1/2015 3:03:49 | 40.35 | 37.05 | 1,200 | 1.82 | 0.25 | 65.6 |
| 5/1/2015 3:03:49 | 40.68 | 37.38 | 1,200 | 1.82 | 0.25 | 65.6 |
| 5/1/2015 3:03:49 | 41.01 | 37.71 | 1,203 | 1.81 | 0.25 | 65.8 |
| 5/1/2015 3:03:50 | 41.34 | 38.04 | 1,203 | 1.83 | 0.25 | 65.8 |
| 5/1/2015 3:03:50 | 41.67 | 38.37 | 1,203 | 1.83 | 0.25 | 65.8 |
| 5/1/2015 3:03:50 | 41.99 | 38.69 | 1,208 | 1.82 | 0.25 | 66.1 |
| 5/1/2015 3:03:51 | 42.32 | 39.02 | 1,208 | 1.82 | 0.25 | 66.1 |
| 5/1/2015 3:03:51 | 42.65 | 39.35 | 1,205 | 1.83 | 0.25 | 65.9 |
| 5/1/2015 3:03:52 | 42.98 | 39.68 | 1,205 | 1.83 | 0.25 | 65.9 |
| 5/1/2015 3:03:52 | 43.31 | 40.01 | 1,175 | 1.82 | 0.25 | 64.2 |
| 5/1/2015 3:03:52 | 43.64 | 40.34 | 1,167 | 1.83 | 0.25 | 63.8 |
| 5/1/2015 3:03:53 | 43.96 | 40.66 | 1,167 | 1.83 | 0.25 | 63.8 |
| 5/1/2015 3:03:53 | 44.29 | 40.99 | 1,188 | 1.84 | 0.25 | 65.0 |
| 5/1/2015 3:03:53 | 44.62 | 41.32 | 1,188 | 1.84 | 0.25 | 65.0 |
| 5/1/2015 3:03:53 | 44.95 | 41.65 | 1,200 | 1.83 | 0.25 | 65.6 |
| 5/1/2015 3:03:54 | 45.28 | 41.98 | 1,200 | 1.83 | 0.25 | 65.6 |
| 5/1/2015 3:03:54 | 45.60 | 42.30 | 1,163 | 1.82 | 0.25 | 63.6 |
| 5/1/2015 3:03:54 | 45.93 | 42.63 | 1,205 | 1.82 | 0.25 | 65.9 |
| 5/1/2015 3:03:55 | 46.26 | 42.96 | 1,205 | 1.82 | 0.25 | 65.9 |
| 5/1/2015 3:03:55 | 46.59 | 43.29 | 1,216 | 1.81 | 0.25 | 66.5 |
| 5/1/2015 3:03:55 | 46.92 | 43.62 | 1,216 | 1.81 | 0.25 | 66.5 |
| 5/1/2015 3:03:55 | 47.24 | 43.94 | 1,216 | 1.83 | 0.25 | 66.5 |
| 5/1/2015 3:03:56 | 47.57 | 44.27 | 1,216 | 1.83 | 0.25 | 66.5 |
| 5/1/2015 3:03:56 | 47.90 | 44.60 | 1,210 | 1.82 | 0.25 | 66.1 |
| 5/1/2015 3:03:56 | 48.23 | 44.93 | 1,181 | 1.83 | 0.25 | 64.6 |
| 5/1/2015 3:03:57 | 48.56 | 45.26 | 1,181 | 1.83 | 0.25 | 64.6 |
| 5/1/2015 3:03:57 | 48.88 | 45.58 | 1,202 | 1.85 | 0.25 | 65.7 |
| 5/1/2015 3:03:57 | 49.21 | 45.91 | 1,202 | 1.85 | 0.25 | 65.7 |
| 5/1/2015 3:03:57 | 49.54 | 46.24 | 1,202 | 1.83 | 0.25 | 65.7 |
| 5/1/2015 3:03:58 | 49.87 | 46.57 | 1,202 | 1.83 | 0.25 | 65.7 |
| 5/1/2015 3:03:58 | 50.20 | 46.90 | 1,206 | 1.82 | 0.25 | 65.9 |
| 5/1/2015 3:03:58 | 50.53 | 47.23 | 1,182 | 1.82 | 0.24 | 64.6 |
| 5/1/2015 3:03:59 | 50.85 | 47.55 | 1,182 | 1.82 | 0.24 | 64.6 |
| 5/1/2015 3:03:59 | 51.18 | 47.88 | 1,174 | 1.84 | 0.25 | 64.2 |
| 5/1/2015 3:03:59 | 51.51 | 48.21 | 1,174 | 1.84 | 0.25 | 64.2 |
| 5/1/2015 3:04:19 | 51.84 | 48.54 | 0 | 1.13 | 0.75 | 0.0 |
| 5/1/2015 3:04:20 | 52.17 | 48.87 | 33 | 1.18 | 1.11 | 1.8 |
| 5/1/2015 3:04:22 | 52.49 | 49.19 | 121 | 1.08 | 1.65 | 6.6 |
| 5/1/2015 3:04:28 | 52.82 | 49.52 | 68 | 1.64 | 1.56 | 3.7 |
| 5/1/2015 3:04:29 | 53.15 | 49.85 | 151 | 1.12 | 1.21 | 8.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:04:31 | 53.48 | 50.18 | 188 | 1.14 | 1.17 | 10.3 |
| 5/1/2015 | 3:04:36 | 53.81 | 50.51 | 77 | 1.18 | 1.16 | 4.2 |
| 5/1/2015 | 3:04:42 | 54.13 | 50.83 | 59 | 1.05 | 1.09 | 3.2 |
| 5/1/2015 | 3:04:51 | 54.46 | 51.16 | 49 | 1.11 | 1.24 | 2.7 |
| 5/1/2015 | 3:04:52 | 54.79 | 51.49 | 140 | 1.13 | 1.50 | 7.7 |
| 5/1/2015 | 3:04:53 | 55.12 | 51.82 | 214 | 1.14 | 1.39 | 11.7 |
| 5/1/2015 | 3:04:54 | 55.45 | 52.15 | 260 | 1.05 | 1.32 | 14.2 |
| 5/1/2015 | 3:04:55 | 55.77 | 52.47 | 392 | 1.04 | 0.99 | 21.4 |
| 5/1/2015 | 3:04:56 | 56.10 | 52.80 | 392 | 1.04 | 1.09 | 21.4 |
| 5/1/2015 | 3:04:57 | 56.43 | 53.13 | 391 | 1.17 | 1.70 | 21.4 |
| 5/1/2015 | 3:05:01 | 56.76 | 53.46 | 25 | 1.02 | 1.64 | 1.4 |
| 5/1/2015 | 3:05:02 | 57.09 | 53.79 | 204 | 1.05 | 1.19 | 11.2 |
| 5/1/2015 | 3:07:09 | 57.41 | 54.11 | 19 | 1.09 | 1.06 | 1.0 |
| 5/1/2015 | 3:07:24 | 57.74 | 54.44 | 21 | 1.07 | 1.00 | 1.2 |
| 5/1/2015 | 3:07:40 | 58.07 | 54.77 | 21 | 1.12 | 0.98 | 1.1 |
| 5/1/2015 | 3:07:43 | 58.13 | 54.83 | 22 | 1.34 | 0.91 | 1.2 |

## L34 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:01:32

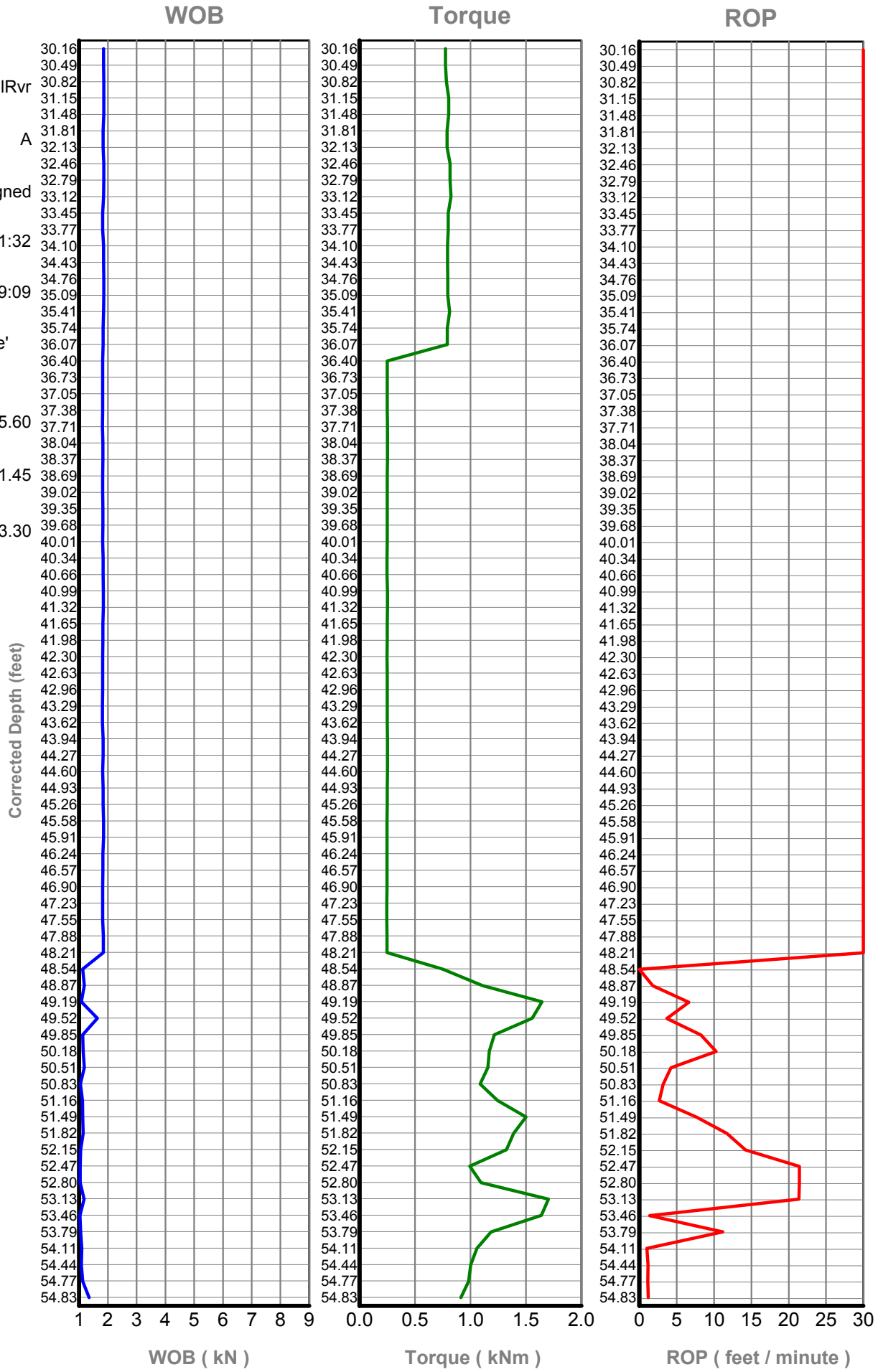
**End Date:**
5/1/2015 3:09:09

**Operator Note:**
'3.3 3.7 a Auto Complete'

**Northing:**
360,105.60

**Easting:**
242,331.45

**Tide (feet):**
3.30



## Hole: L35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:04:32 | 33.46 | 30.16 | 1,115 | 0.32 | 0.38 | 61.0 |
| 5/1/2015 3:04:32 | 33.79 | 30.49 | 1,113 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 3:04:33 | 34.12 | 30.82 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:04:33 | 34.45 | 31.15 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:04:33 | 34.78 | 31.48 | 1,123 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 3:04:34 | 35.11 | 31.81 | 1,110 | 0.33 | 0.39 | 60.7 |
| 5/1/2015 3:04:35 | 35.43 | 32.13 | 1,110 | 0.33 | 0.39 | 60.7 |
| 5/1/2015 3:04:35 | 35.76 | 32.46 | 1,113 | 0.33 | 0.39 | 60.9 |
| 5/1/2015 3:04:35 | 36.09 | 32.79 | 1,113 | 0.33 | 0.39 | 60.9 |
| 5/1/2015 3:04:35 | 36.42 | 33.12 | 1,110 | 0.32 | 0.38 | 60.7 |
| 5/1/2015 3:04:36 | 36.75 | 33.45 | 1,107 | 0.31 | 0.38 | 60.5 |
| 5/1/2015 3:04:36 | 37.07 | 33.77 | 1,107 | 0.31 | 0.38 | 60.5 |
| 5/1/2015 3:04:36 | 37.40 | 34.10 | 1,100 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 3:04:37 | 37.73 | 34.43 | 1,100 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 3:04:37 | 38.06 | 34.76 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 3:04:37 | 38.39 | 35.09 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 3:04:38 | 38.71 | 35.41 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 3:04:38 | 39.04 | 35.74 | 1,113 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 3:04:38 | 39.37 | 36.07 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:04:39 | 39.70 | 36.40 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:04:39 | 40.03 | 36.73 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 3:04:39 | 40.35 | 37.05 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 3:04:39 | 40.68 | 37.38 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:40 | 41.01 | 37.71 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 3:04:40 | 41.34 | 38.04 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 3:04:40 | 41.67 | 38.37 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:41 | 41.99 | 38.69 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:41 | 42.32 | 39.02 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:41 | 42.65 | 39.35 | 1,109 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 3:04:42 | 42.98 | 39.68 | 1,109 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 3:04:42 | 43.31 | 40.01 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:42 | 43.64 | 40.34 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 3:04:43 | 43.96 | 40.66 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 3:04:43 | 44.29 | 40.99 | 1,119 | 0.33 | 0.39 | 61.2 |
| 5/1/2015 3:04:43 | 44.62 | 41.32 | 1,119 | 0.33 | 0.39 | 61.2 |
| 5/1/2015 3:04:43 | 44.95 | 41.65 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:44 | 45.28 | 41.98 | 1,122 | 0.33 | 0.39 | 61.3 |
| 5/1/2015 3:04:45 | 45.60 | 42.30 | 1,122 | 0.33 | 0.39 | 61.3 |
| 5/1/2015 3:04:45 | 45.93 | 42.63 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:45 | 46.26 | 42.96 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:45 | 46.59 | 43.29 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:46 | 46.92 | 43.62 | 1,109 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 3:04:46 | 47.24 | 43.94 | 1,109 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 3:04:46 | 47.57 | 44.27 | 1,122 | 0.35 | 0.38 | 61.3 |
| 5/1/2015 3:04:47 | 47.90 | 44.60 | 1,122 | 0.35 | 0.38 | 61.3 |
| 5/1/2015 3:04:47 | 48.23 | 44.93 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:47 | 48.56 | 45.26 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:48 | 48.88 | 45.58 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:48 | 49.21 | 45.91 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 3:04:48 | 49.54 | 46.24 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 3:04:49 | 49.87 | 46.57 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 3:04:49 | 50.20 | 46.90 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 3:04:49 | 50.53 | 47.23 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 3:04:49 | 50.85 | 47.55 | 1,122 | 0.33 | 0.39 | 61.3 |
| 5/1/2015 3:04:50 | 51.18 | 47.88 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 3:04:50 | 51.51 | 48.21 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 3:04:50 | 51.84 | 48.54 | 1,127 | 0.31 | 0.43 | 61.6 |
| 5/1/2015 3:04:58 | 52.17 | 48.87 | 7 | 2.96 | 0.46 | 0.4 |
| 5/1/2015 3:04:59 | 52.49 | 49.19 | 128 | 3.95 | 0.44 | 7.0 |
| 5/1/2015 3:05:00 | 52.82 | 49.52 | 216 | 4.27 | 0.44 | 11.8 |
| 5/1/2015 3:05:01 | 53.15 | 49.85 | 384 | 4.72 | 0.44 | 21.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:05:07 | 53.48 | 50.18 | 96 | 4.19 | 0.47 | 5.2 |
| 5/1/2015 | 3:05:14 | 53.81 | 50.51 | 37 | 3.35 | 0.48 | 2.0 |
| 5/1/2015 | 3:05:28 | 54.13 | 50.83 | 29 | 3.09 | 0.47 | 1.6 |
| 5/1/2015 | 3:05:40 | 54.46 | 51.16 | 34 | 2.87 | 0.47 | 1.9 |
| 5/1/2015 | 3:05:43 | 54.59 | 51.29 | 41 | 3.12 | 0.47 | 2.2 |

## L35 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:02:25

**End Date:**
5/1/2015 3:07:15

**Operator Note:**
'3.3 3.7b Auto Complete'

**Northing:**
360,145.30

**Easting:**
242,394.90

**Tide (feet):**
3.30



## Hole: L36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:02:20 | 33.46 | 30.16 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:02:20 | 33.79 | 30.49 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:21 | 34.12 | 30.82 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:21 | 34.45 | 31.15 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:21 | 34.78 | 31.48 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 3:02:22 | 35.11 | 31.81 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 3:02:22 | 35.43 | 32.13 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:02:22 | 35.76 | 32.46 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:23 | 36.09 | 32.79 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:23 | 36.42 | 33.12 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:23 | 36.75 | 33.45 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:24 | 37.07 | 33.77 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:24 | 37.40 | 34.10 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:24 | 37.73 | 34.43 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:24 | 38.06 | 34.76 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:25 | 38.39 | 35.09 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:02:25 | 38.71 | 35.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 3:02:25 | 39.04 | 35.74 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:26 | 39.37 | 36.07 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:26 | 39.70 | 36.40 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:26 | 40.03 | 36.73 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 3:02:27 | 40.35 | 37.05 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 3:02:28 | 40.68 | 37.38 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 3:02:27 | 41.01 | 37.71 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:28 | 41.34 | 38.04 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:02:29 | 41.67 | 38.37 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:02:29 | 41.99 | 38.69 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 3:02:29 | 42.32 | 39.02 | 1,043 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:30 | 42.65 | 39.35 | 1,043 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:30 | 42.98 | 39.68 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:02:30 | 43.31 | 40.01 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:02:31 | 43.64 | 40.34 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:02:31 | 43.96 | 40.66 | 1,043 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:31 | 44.29 | 40.99 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 3:02:32 | 44.62 | 41.32 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 3:02:32 | 44.95 | 41.65 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 3:02:32 | 45.28 | 41.98 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:02:33 | 45.60 | 42.30 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:02:33 | 45.93 | 42.63 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 3:02:33 | 46.26 | 42.96 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:34 | 46.59 | 43.29 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:34 | 46.92 | 43.62 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:02:34 | 47.24 | 43.94 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 3:02:35 | 47.57 | 44.27 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 3:02:35 | 47.90 | 44.60 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 3:02:35 | 48.23 | 44.93 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 3:02:35 | 48.56 | 45.26 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:02:36 | 48.88 | 45.58 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:02:36 | 49.21 | 45.91 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 3:02:36 | 49.54 | 46.24 | 1,040 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:02:37 | 49.87 | 46.57 | 1,040 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:02:37 | 50.20 | 46.90 | 1,040 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 3:02:37 | 50.53 | 47.23 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 3:02:38 | 50.85 | 47.55 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:38 | 51.18 | 47.88 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 3:02:38 | 51.51 | 48.21 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 3:02:39 | 51.84 | 48.54 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:39 | 52.17 | 48.87 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:40 | 52.49 | 49.19 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 3:02:40 | 52.82 | 49.52 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 3:02:41 | 53.15 | 49.85 | 1,022 | 1.14 | 0.29 | 55.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:02:48 | 53.48 | 50.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 3:02:48 | 53.81 | 50.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 3:02:48 | 54.13 | 50.83 | 105 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 | 3:02:49 | 54.46 | 51.16 | 252 | 1.14 | 0.29 | 13.8 |
| 5/1/2015 | 3:02:57 | 54.79 | 51.49 | 54 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 3:02:58 | 55.12 | 51.82 | 176 | 1.14 | 0.29 | 9.6 |
| 5/1/2015 | 3:03:00 | 55.45 | 52.15 | 244 | 1.14 | 0.29 | 13.3 |
| 5/1/2015 | 3:03:13 | 55.77 | 52.47 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 3:03:17 | 56.10 | 52.80 | 112 | 1.14 | 0.29 | 6.1 |
| 5/1/2015 | 3:03:18 | 56.43 | 53.13 | 171 | 1.14 | 0.29 | 9.4 |
| 5/1/2015 | 3:03:20 | 56.76 | 53.46 | 203 | 1.14 | 0.29 | 11.1 |
| 5/1/2015 | 3:03:21 | 57.09 | 53.79 | 247 | 1.14 | 0.29 | 13.5 |
| 5/1/2015 | 3:03:22 | 57.41 | 54.11 | 309 | 1.14 | 0.29 | 16.9 |
| 5/1/2015 | 3:03:23 | 57.74 | 54.44 | 342 | 1.14 | 0.29 | 18.7 |
| 5/1/2015 | 3:03:24 | 58.07 | 54.77 | 344 | 1.14 | 0.29 | 18.8 |
| 5/1/2015 | 3:03:25 | 58.40 | 55.10 | 332 | 1.14 | 0.29 | 18.1 |
| 5/1/2015 | 3:03:26 | 58.73 | 55.43 | 301 | 1.14 | 0.29 | 16.5 |
| 5/1/2015 | 3:03:27 | 58.91 | 55.61 | 301 | 1.14 | 0.29 | 16.5 |

## L36 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:01:28

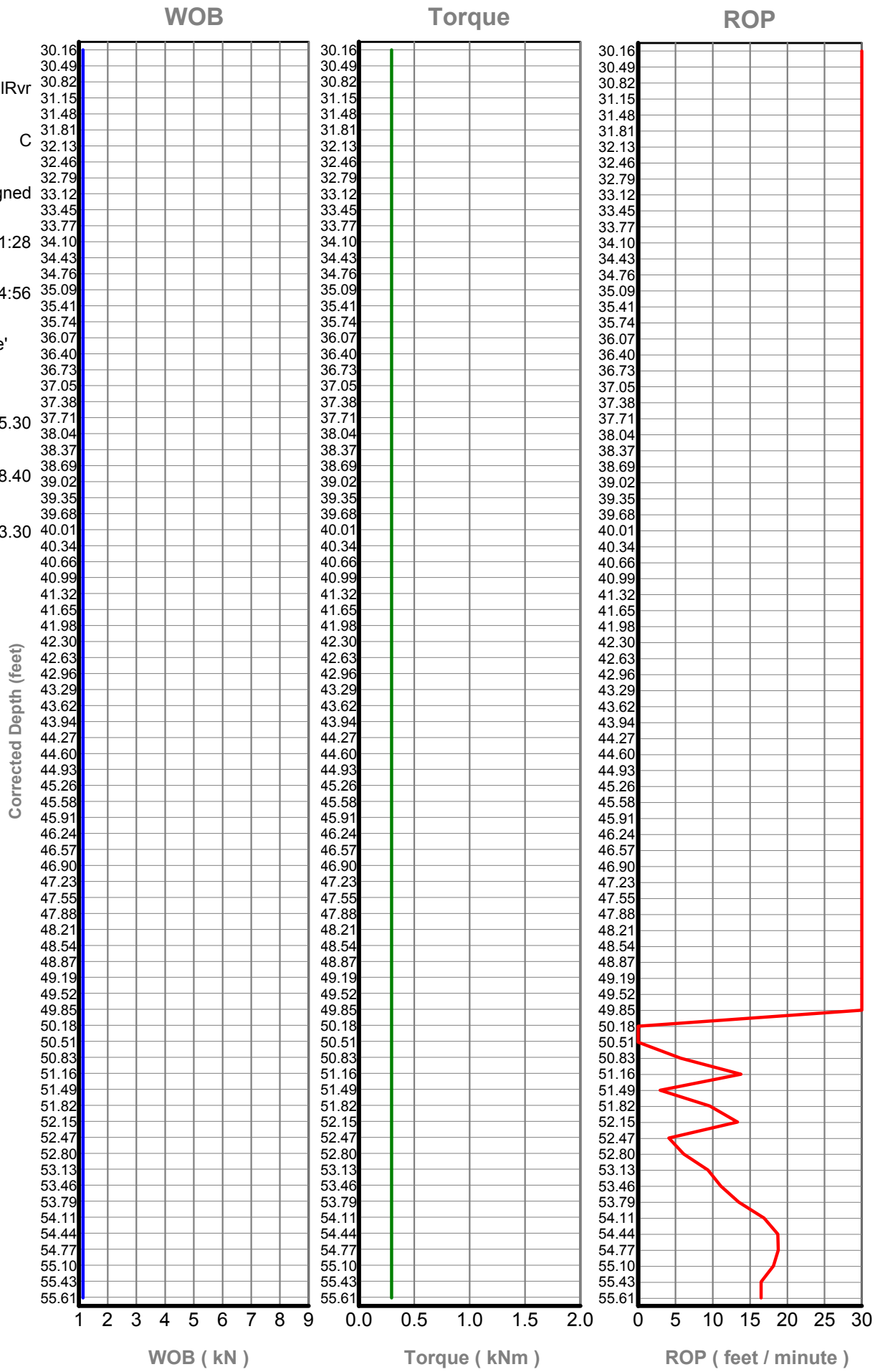
**End Date:**
5/1/2015 3:04:56

**Operator Note:**
'3.3 3.7 c Auto Complete'

**Northing:**
360,185.30

**Easting:**
242,458.40

**Tide (feet):**
3.30



## Hole: L37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:45:38 | 35.11 | 30.31 | 1,179 | 1.71 | 0.79 | 64.5 |
| 5/1/2015 1:45:38 | 35.43 | 30.63 | 1,193 | 1.70 | 0.77 | 65.3 |
| 5/1/2015 1:45:39 | 35.76 | 30.96 | 1,193 | 1.70 | 0.77 | 65.3 |
| 5/1/2015 1:45:39 | 36.09 | 31.29 | 1,180 | 1.71 | 0.78 | 64.5 |
| 5/1/2015 1:45:39 | 36.42 | 31.62 | 1,180 | 1.71 | 0.78 | 64.5 |
| 5/1/2015 1:45:39 | 36.75 | 31.95 | 1,180 | 1.72 | 0.80 | 64.5 |
| 5/1/2015 1:45:40 | 37.07 | 32.27 | 1,192 | 1.72 | 0.78 | 65.2 |
| 5/1/2015 1:45:40 | 37.40 | 32.60 | 1,192 | 1.72 | 0.78 | 65.2 |
| 5/1/2015 1:45:40 | 37.73 | 32.93 | 1,185 | 1.72 | 0.78 | 64.8 |
| 5/1/2015 1:45:41 | 38.06 | 33.26 | 1,185 | 1.72 | 0.78 | 64.8 |
| 5/1/2015 1:45:41 | 38.39 | 33.59 | 1,202 | 1.71 | 0.78 | 65.7 |
| 5/1/2015 1:45:41 | 38.71 | 33.91 | 1,202 | 1.71 | 0.78 | 65.7 |
| 5/1/2015 1:45:41 | 39.04 | 34.24 | 1,196 | 1.70 | 0.78 | 65.4 |
| 5/1/2015 1:45:42 | 39.37 | 34.57 | 1,208 | 1.70 | 0.78 | 66.1 |
| 5/1/2015 1:45:42 | 39.70 | 34.90 | 1,208 | 1.70 | 0.78 | 66.1 |
| 5/1/2015 1:45:42 | 40.03 | 35.23 | 1,188 | 1.75 | 0.81 | 65.0 |
| 5/1/2015 1:45:43 | 40.35 | 35.55 | 1,188 | 1.75 | 0.81 | 65.0 |
| 5/1/2015 1:45:43 | 40.68 | 35.88 | 1,185 | 1.72 | 0.82 | 64.8 |
| 5/1/2015 1:45:43 | 41.01 | 36.21 | 1,185 | 1.72 | 0.82 | 64.8 |
| 5/1/2015 1:45:43 | 41.34 | 36.54 | 1,176 | 1.71 | 0.77 | 64.3 |
| 5/1/2015 1:45:44 | 41.67 | 36.87 | 1,182 | 1.70 | 0.77 | 64.7 |
| 5/1/2015 1:45:44 | 41.99 | 37.19 | 1,182 | 1.70 | 0.77 | 64.7 |
| 5/1/2015 1:45:44 | 42.32 | 37.52 | 1,179 | 1.74 | 0.78 | 64.5 |
| 5/1/2015 1:45:45 | 42.65 | 37.85 | 1,179 | 1.74 | 0.78 | 64.5 |
| 5/1/2015 1:45:45 | 42.98 | 38.18 | 1,170 | 1.71 | 0.77 | 64.0 |
| 5/1/2015 1:45:45 | 43.31 | 38.51 | 1,177 | 1.72 | 0.78 | 64.3 |
| 5/1/2015 1:45:46 | 43.64 | 38.84 | 1,177 | 1.72 | 0.78 | 64.3 |
| 5/1/2015 1:45:46 | 43.96 | 39.16 | 1,182 | 1.72 | 0.80 | 64.6 |
| 5/1/2015 1:45:46 | 44.29 | 39.49 | 1,182 | 1.72 | 0.80 | 64.6 |
| 5/1/2015 1:45:46 | 44.62 | 39.82 | 1,179 | 1.73 | 0.77 | 64.5 |
| 5/1/2015 1:45:47 | 44.95 | 40.15 | 1,179 | 1.73 | 0.77 | 64.5 |
| 5/1/2015 1:45:47 | 45.28 | 40.48 | 1,176 | 1.72 | 0.76 | 64.3 |
| 5/1/2015 1:45:47 | 45.60 | 40.80 | 1,176 | 1.70 | 0.78 | 64.3 |
| 5/1/2015 1:45:48 | 45.93 | 41.13 | 1,176 | 1.70 | 0.78 | 64.3 |
| 5/1/2015 1:45:48 | 46.26 | 41.46 | 1,179 | 1.72 | 0.78 | 64.5 |
| 5/1/2015 1:45:49 | 46.59 | 41.79 | 1,179 | 1.72 | 0.78 | 64.5 |
| 5/1/2015 1:45:48 | 46.92 | 42.12 | 1,174 | 1.72 | 0.81 | 64.2 |
| 5/1/2015 1:45:49 | 47.24 | 42.44 | 1,174 | 1.73 | 0.78 | 64.2 |
| 5/1/2015 1:45:50 | 47.57 | 42.77 | 1,174 | 1.73 | 0.78 | 64.2 |
| 5/1/2015 1:45:50 | 47.90 | 43.10 | 1,167 | 1.72 | 0.82 | 63.8 |
| 5/1/2015 1:45:50 | 48.23 | 43.43 | 1,167 | 1.72 | 0.82 | 63.8 |
| 5/1/2015 1:45:50 | 48.56 | 43.76 | 1,177 | 1.74 | 0.78 | 64.4 |
| 5/1/2015 1:45:51 | 48.88 | 44.08 | 1,177 | 1.74 | 0.78 | 64.4 |
| 5/1/2015 1:45:51 | 49.21 | 44.41 | 1,143 | 1.71 | 0.78 | 62.5 |
| 5/1/2015 1:45:51 | 49.54 | 44.74 | 1,143 | 1.70 | 0.77 | 62.5 |
| 5/1/2015 1:45:52 | 49.87 | 45.07 | 1,143 | 1.70 | 0.77 | 62.5 |
| 5/1/2015 1:45:52 | 50.20 | 45.40 | 1,161 | 1.71 | 0.77 | 63.5 |
| 5/1/2015 1:45:52 | 50.53 | 45.73 | 1,161 | 1.71 | 0.77 | 63.5 |
| 5/1/2015 1:45:52 | 50.85 | 46.05 | 1,164 | 1.73 | 0.79 | 63.7 |
| 5/1/2015 1:45:53 | 51.18 | 46.38 | 1,171 | 1.71 | 0.77 | 64.0 |
| 5/1/2015 1:45:53 | 51.51 | 46.71 | 1,171 | 1.71 | 0.77 | 64.0 |
| 5/1/2015 1:45:53 | 51.84 | 47.04 | 1,165 | 1.70 | 0.80 | 63.7 |
| 5/1/2015 1:45:54 | 52.17 | 47.37 | 1,165 | 1.70 | 0.80 | 63.7 |
| 5/1/2015 1:45:54 | 52.49 | 47.69 | 1,189 | 1.75 | 0.78 | 65.0 |
| 5/1/2015 1:45:54 | 52.82 | 48.02 | 1,189 | 1.75 | 0.78 | 65.0 |
| 5/1/2015 1:45:54 | 53.15 | 48.35 | 1,174 | 1.85 | 0.79 | 64.2 |
| 5/1/2015 1:46:15 | 53.48 | 48.68 | 0 | 1.02 | 0.72 | 0.0 |
| 5/1/2015 1:46:23 | 53.81 | 49.01 | 70 | 1.05 | 1.05 | 3.8 |
| 5/1/2015 1:46:27 | 54.13 | 49.33 | 108 | 1.09 | 1.17 | 5.9 |
| 5/1/2015 1:46:29 | 54.46 | 49.66 | 118 | 1.01 | 1.38 | 6.4 |
| 5/1/2015 1:46:32 | 54.79 | 49.99 | 156 | 1.08 | 1.36 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:46:36 | 55.12 | 50.32 | 93 | 1.15 | 1.14 | 5.1 |
| 5/1/2015 | 1:46:38 | 55.45 | 50.65 | 126 | 1.09 | 1.29 | 6.9 |
| 5/1/2015 | 1:46:40 | 55.77 | 50.97 | 153 | 1.02 | 1.13 | 8.3 |
| 5/1/2015 | 1:46:43 | 56.10 | 51.30 | 151 | 1.07 | 1.17 | 8.3 |
| 5/1/2015 | 1:46:44 | 56.43 | 51.63 | 208 | 1.09 | 1.04 | 11.4 |
| 5/1/2015 | 1:46:46 | 56.76 | 51.96 | 201 | 0.60 | 1.18 | 11.0 |
| 5/1/2015 | 1:46:58 | 57.09 | 52.29 | 121 | 1.00 | 1.28 | 6.6 |
| 5/1/2015 | 1:47:02 | 57.41 | 52.61 | 81 | 1.00 | 1.34 | 4.4 |
| 5/1/2015 | 1:47:05 | 57.74 | 52.94 | 129 | 1.05 | 1.42 | 7.1 |
| 5/1/2015 | 1:47:08 | 58.07 | 53.27 | 107 | 1.09 | 1.20 | 5.9 |
| 5/1/2015 | 1:47:59 | 58.40 | 53.60 | 2 | 1.01 | 1.16 | 0.1 |
| 5/1/2015 | 1:48:06 | 58.73 | 53.93 | 36 | 1.02 | 0.95 | 2.0 |
| 5/1/2015 | 1:48:17 | 59.06 | 54.26 | 50 | 1.11 | 0.93 | 2.7 |
| 5/1/2015 | 1:48:22 | 59.38 | 54.58 | 70 | 1.05 | 1.02 | 3.8 |
| 5/1/2015 | 1:48:30 | 59.71 | 54.91 | 45 | 1.09 | 1.05 | 2.4 |
| 5/1/2015 | 1:48:39 | 59.97 | 55.17 | 30 | 0.89 | 0.91 | 1.7 |

## L37 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:44:06

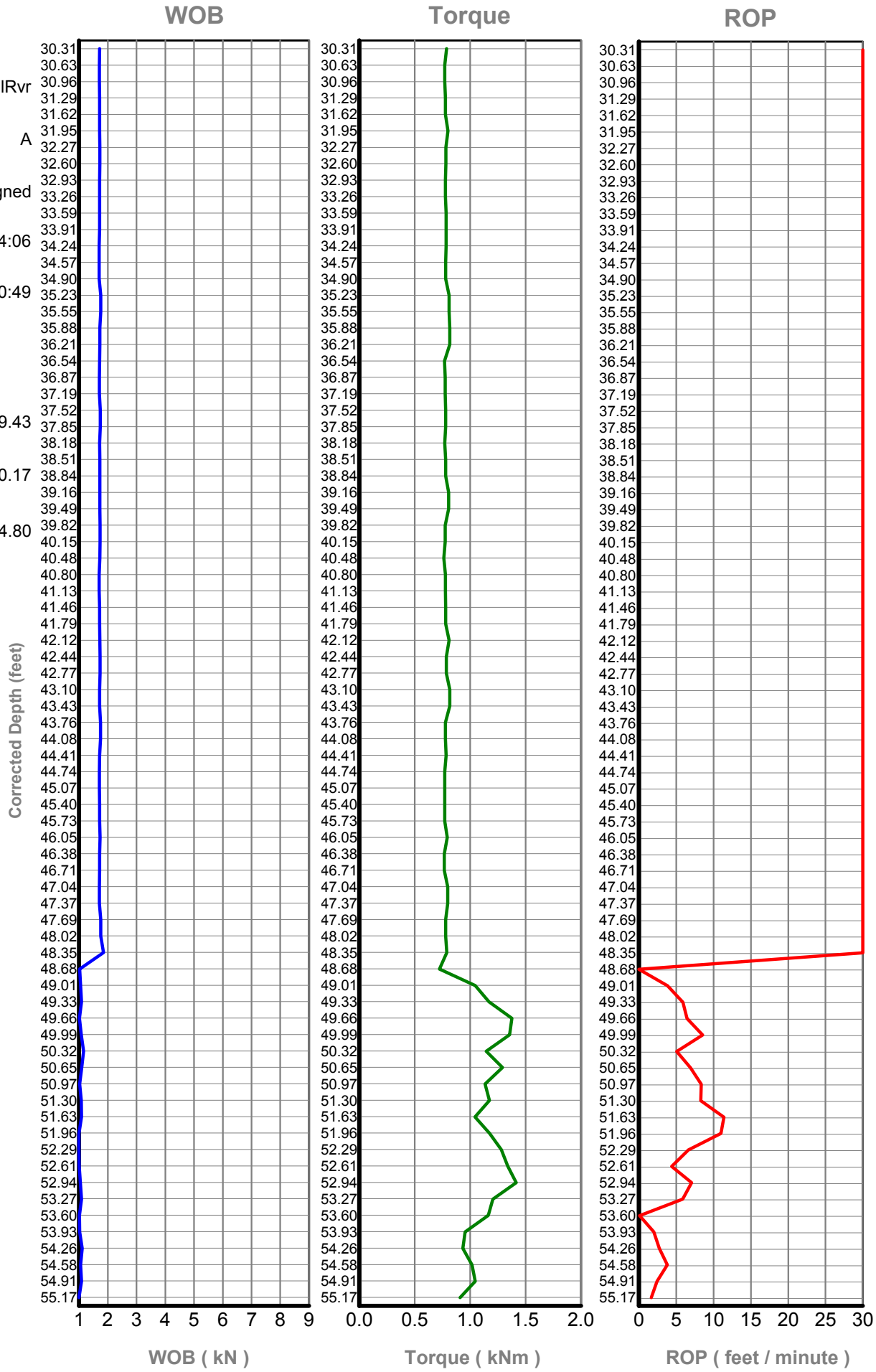
**End Date:**
5/1/2015 1:50:49

**Operator Note:**
'4.8 5 a Auto Complete'

**Northing:**
360,229.43

**Easting:**
242,520.17

**Tide (feet):**
4.80



## Hole: L38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:46:09 | 35.11 | 30.31 | 1,165 | 0.39 | 0.38 | 63.7 |
| 5/1/2015 1:46:09 | 35.43 | 30.63 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 1:46:09 | 35.76 | 30.96 | 1,163 | 0.31 | 0.37 | 63.6 |
| 5/1/2015 1:46:10 | 36.09 | 31.29 | 1,163 | 0.31 | 0.37 | 63.6 |
| 5/1/2015 1:46:10 | 36.42 | 31.62 | 1,143 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 1:46:10 | 36.75 | 31.95 | 1,143 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 1:46:10 | 37.07 | 32.27 | 1,152 | 0.31 | 0.37 | 63.0 |
| 5/1/2015 1:46:11 | 37.40 | 32.60 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:46:11 | 37.73 | 32.93 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 1:46:11 | 38.06 | 33.26 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/1/2015 1:46:12 | 38.39 | 33.59 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/1/2015 1:46:12 | 38.71 | 33.91 | 1,163 | 0.31 | 0.38 | 63.6 |
| 5/1/2015 1:46:12 | 39.04 | 34.24 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:13 | 39.37 | 34.57 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:13 | 39.70 | 34.90 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:46:13 | 40.03 | 35.23 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:46:13 | 40.35 | 35.55 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:14 | 40.68 | 35.88 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:14 | 41.01 | 36.21 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:46:14 | 41.34 | 36.54 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:46:15 | 41.67 | 36.87 | 1,164 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 1:46:15 | 41.99 | 37.19 | 1,160 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 1:46:15 | 42.32 | 37.52 | 1,160 | 0.31 | 0.37 | 63.4 |
| 5/1/2015 1:46:15 | 42.65 | 37.85 | 1,177 | 0.31 | 0.37 | 64.4 |
| 5/1/2015 1:46:16 | 42.98 | 38.18 | 1,169 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:46:16 | 43.31 | 38.51 | 1,169 | 0.31 | 0.37 | 63.9 |
| 5/1/2015 1:46:16 | 43.64 | 38.84 | 1,169 | 0.30 | 0.38 | 63.9 |
| 5/1/2015 1:46:17 | 43.96 | 39.16 | 1,169 | 0.30 | 0.38 | 63.9 |
| 5/1/2015 1:46:17 | 44.29 | 39.49 | 1,181 | 0.31 | 0.38 | 64.6 |
| 5/1/2015 1:46:17 | 44.62 | 39.82 | 1,181 | 0.31 | 0.38 | 64.6 |
| 5/1/2015 1:46:17 | 44.95 | 40.15 | 1,181 | 0.31 | 0.38 | 64.6 |
| 5/1/2015 1:46:18 | 45.28 | 40.48 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:46:18 | 45.60 | 40.80 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:46:19 | 45.93 | 41.13 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:46:19 | 46.26 | 41.46 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 1:46:19 | 46.59 | 41.79 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:46:20 | 46.92 | 42.12 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:46:20 | 47.24 | 42.44 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/1/2015 1:46:20 | 47.57 | 42.77 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:46:21 | 47.90 | 43.10 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/1/2015 1:46:21 | 48.23 | 43.43 | 1,172 | 0.31 | 0.36 | 64.1 |
| 5/1/2015 1:46:21 | 48.56 | 43.76 | 1,172 | 0.31 | 0.36 | 64.1 |
| 5/1/2015 1:46:21 | 48.88 | 44.08 | 1,188 | 0.32 | 0.38 | 65.0 |
| 5/1/2015 1:46:22 | 49.21 | 44.41 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:22 | 49.54 | 44.74 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:22 | 49.87 | 45.07 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:23 | 50.20 | 45.40 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:23 | 50.53 | 45.73 | 1,177 | 0.31 | 0.38 | 64.4 |
| 5/1/2015 1:46:23 | 50.85 | 46.05 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:46:24 | 51.18 | 46.38 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/1/2015 1:46:24 | 51.51 | 46.71 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:24 | 51.84 | 47.04 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:24 | 52.17 | 47.37 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:25 | 52.49 | 47.69 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 1:46:25 | 52.82 | 48.02 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/1/2015 1:46:25 | 53.15 | 48.35 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/1/2015 1:46:26 | 53.48 | 48.68 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/1/2015 1:46:26 | 53.81 | 49.01 | 1,186 | 0.29 | 0.40 | 64.9 |
| 5/1/2015 1:46:26 | 54.13 | 49.33 | 1,142 | 0.29 | 0.44 | 62.5 |
| 5/1/2015 1:46:30 | 54.46 | 49.66 | 31 | 3.17 | 0.40 | 1.7 |
| 5/1/2015 1:46:31 | 54.79 | 49.99 | 31 | 3.17 | 0.40 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:46:31 | 55.12 | 50.32 | 268 | 4.21 | 0.47 | 14.7 |
| 5/1/2015 | 1:46:35 | 55.45 | 50.65 | 125 | 5.46 | 0.48 | 6.8 |
| 5/1/2015 | 1:46:38 | 55.77 | 50.97 | 60 | 3.69 | 0.40 | 3.3 |
| 5/1/2015 | 1:46:39 | 56.10 | 51.30 | 175 | 3.84 | 0.44 | 9.6 |
| 5/1/2015 | 1:46:52 | 56.43 | 51.63 | 7 | 4.26 | 0.47 | 0.4 |
| 5/1/2015 | 1:46:58 | 56.76 | 51.96 | 69 | 3.09 | 0.47 | 3.8 |
| 5/1/2015 | 1:47:06 | 57.09 | 52.29 | 35 | 2.74 | 0.46 | 1.9 |
| 5/1/2015 | 1:47:17 | 57.41 | 52.61 | 32 | 2.61 | 0.47 | 1.8 |
| 5/1/2015 | 1:47:28 | 57.74 | 52.94 | 34 | 2.97 | 0.47 | 1.9 |
| 5/1/2015 | 1:47:30 | 57.82 | 53.02 | 38 | 3.48 | 0.47 | 2.1 |

## L38 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:44:38

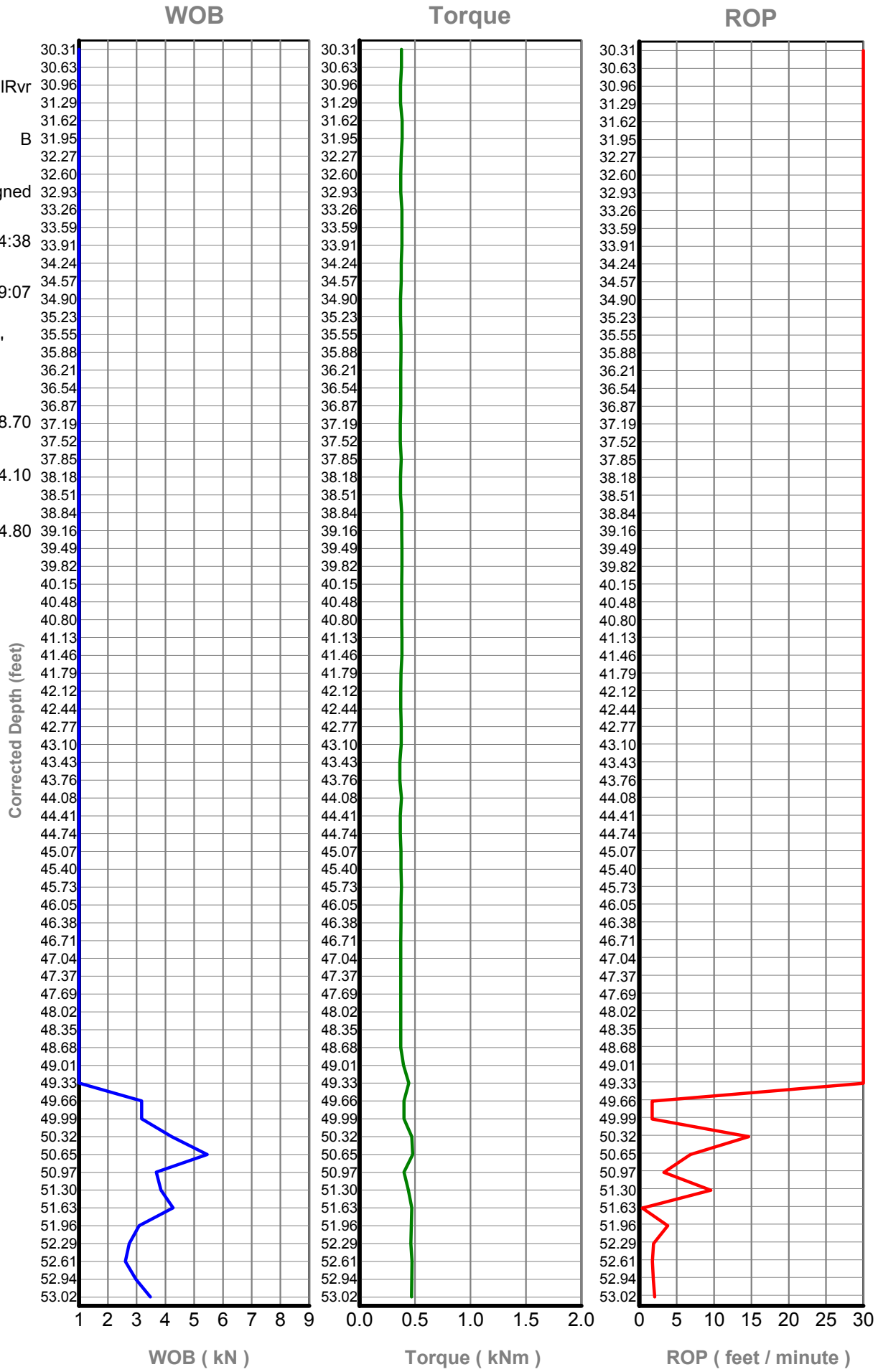
**End Date:**
5/1/2015 1:49:07

**Operator Note:**
'4.8 5.0b Auto Complete'

**Northing:**
360,268.70

**Easting:**
242,584.10

**Tide (feet):**
4.80



## Hole: L39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:44:35 | 35.11 | 30.31 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:35 | 35.43 | 30.63 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:35 | 35.76 | 30.96 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:36 | 36.09 | 31.29 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:44:36 | 36.42 | 31.62 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:44:36 | 36.75 | 31.95 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:44:37 | 37.07 | 32.27 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:37 | 37.40 | 32.60 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:37 | 37.73 | 32.93 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:38 | 38.06 | 33.26 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:38 | 38.39 | 33.59 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:44:38 | 38.71 | 33.91 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:39 | 39.04 | 34.24 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:44:39 | 39.37 | 34.57 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:44:39 | 39.70 | 34.90 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:40 | 40.03 | 35.23 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:40 | 40.35 | 35.55 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 1:44:41 | 40.68 | 35.88 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:41 | 41.01 | 36.21 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:41 | 41.34 | 36.54 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:42 | 41.67 | 36.87 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:42 | 41.99 | 37.19 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:42 | 42.32 | 37.52 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:44:43 | 42.65 | 37.85 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:44:43 | 42.98 | 38.18 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 1:44:43 | 43.31 | 38.51 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 1:44:44 | 43.64 | 38.84 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 1:44:44 | 43.96 | 39.16 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 1:44:44 | 44.29 | 39.49 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:45 | 44.62 | 39.82 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:45 | 44.95 | 40.15 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 1:44:45 | 45.28 | 40.48 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 1:44:46 | 45.60 | 40.80 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 1:44:46 | 45.93 | 41.13 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 1:44:46 | 46.26 | 41.46 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 1:44:47 | 46.59 | 41.79 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 1:44:47 | 46.92 | 42.12 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 1:44:47 | 47.24 | 42.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 1:44:48 | 47.57 | 42.77 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 1:44:48 | 47.90 | 43.10 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:48 | 48.23 | 43.43 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:49 | 48.56 | 43.76 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:49 | 48.88 | 44.08 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:49 | 49.21 | 44.41 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:49 | 49.54 | 44.74 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:50 | 49.87 | 45.07 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:50 | 50.20 | 45.40 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:50 | 50.53 | 45.73 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 1:44:51 | 50.85 | 46.05 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 1:44:51 | 51.18 | 46.38 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 1:44:52 | 51.51 | 46.71 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 1:44:52 | 51.84 | 47.04 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:44:53 | 52.17 | 47.37 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:44:53 | 52.49 | 47.69 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:44:53 | 52.82 | 48.02 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 1:44:54 | 53.15 | 48.35 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 1:44:54 | 53.48 | 48.68 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:44:54 | 53.81 | 49.01 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 1:45:10 | 54.13 | 49.33 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 1:45:11 | 54.46 | 49.66 | 159 | 1.14 | 0.29 | 8.7 |
| 5/1/2015 1:45:20 | 54.79 | 49.99 | 41 | 1.14 | 0.29 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:45:21 | 55.12 | 50.32 | 175 | 1.14 | 0.29 | 9.6 |
| 5/1/2015 | 1:45:31 | 55.45 | 50.65 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 1:45:39 | 55.77 | 50.97 | 50 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 | 1:45:45 | 56.10 | 51.30 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 1:45:49 | 56.43 | 51.63 | 60 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 1:45:51 | 56.60 | 51.80 | 70 | 1.14 | 0.29 | 3.8 |

## L39 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:43:39

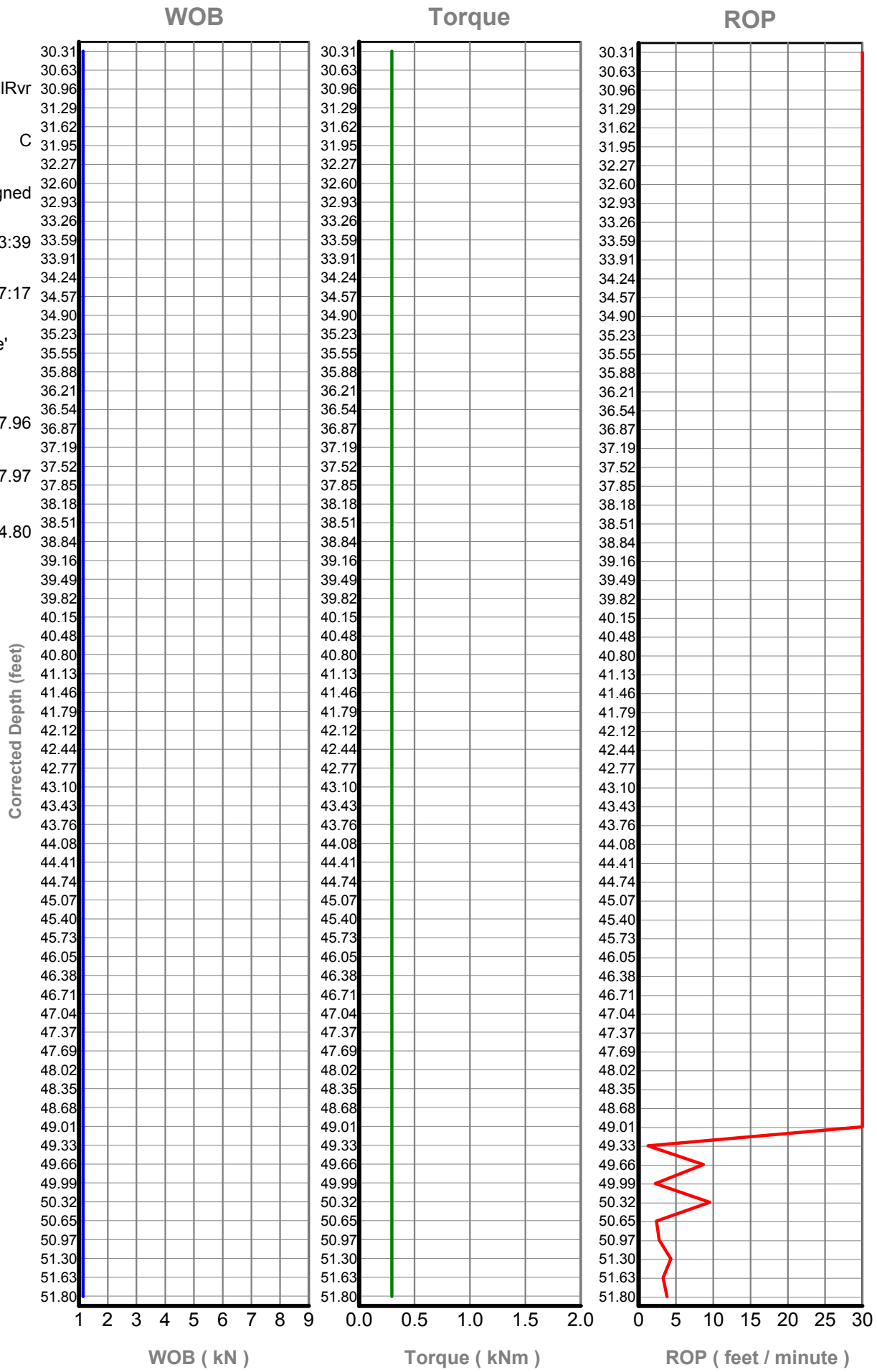
**End Date:**
5/1/2015 1:47:17

**Operator Note:**
'4.8 5.0 c Auto Complete'

**Northing:**
360,307.96

**Easting:**
242,647.97

**Tide (feet):**
4.80



## Hole: L4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:29:46 | 34.12 | 30.32 | 845 | 1.22 | 0.17 | 46.2 |
| 5/1/2015 8:29:47 | 34.45 | 30.65 | 850 | 1.22 | 0.17 | 46.5 |
| 5/1/2015 8:29:47 | 34.78 | 30.98 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:48 | 35.11 | 31.31 | 844 | 1.24 | 0.17 | 46.2 |
| 5/1/2015 8:29:48 | 35.43 | 31.63 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:49 | 35.76 | 31.96 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:49 | 36.09 | 32.29 | 847 | 1.22 | 0.19 | 46.3 |
| 5/1/2015 8:29:49 | 36.42 | 32.62 | 844 | 1.19 | 0.17 | 46.2 |
| 5/1/2015 8:29:50 | 36.75 | 32.95 | 839 | 1.21 | 0.17 | 45.9 |
| 5/1/2015 8:29:50 | 37.07 | 33.27 | 842 | 1.22 | 0.17 | 46.1 |
| 5/1/2015 8:29:51 | 37.40 | 33.60 | 842 | 1.22 | 0.17 | 46.1 |
| 5/1/2015 8:29:51 | 37.73 | 33.93 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:51 | 38.06 | 34.26 | 847 | 1.23 | 0.17 | 46.3 |
| 5/1/2015 8:29:52 | 38.39 | 34.59 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:52 | 38.71 | 34.91 | 855 | 1.23 | 0.17 | 46.8 |
| 5/1/2015 8:29:53 | 39.04 | 35.24 | 855 | 1.23 | 0.17 | 46.8 |
| 5/1/2015 8:29:53 | 39.37 | 35.57 | 853 | 1.23 | 0.18 | 46.6 |
| 5/1/2015 8:29:54 | 39.70 | 35.90 | 850 | 1.21 | 0.17 | 46.5 |
| 5/1/2015 8:29:54 | 40.03 | 36.23 | 847 | 1.15 | 0.17 | 46.3 |
| 5/1/2015 8:29:55 | 40.35 | 36.55 | 845 | 1.21 | 0.17 | 46.2 |
| 5/1/2015 8:29:55 | 40.68 | 36.88 | 845 | 1.21 | 0.17 | 46.2 |
| 5/1/2015 8:29:55 | 41.01 | 37.21 | 847 | 1.22 | 0.17 | 46.3 |
| 5/1/2015 8:29:56 | 41.34 | 37.54 | 841 | 1.21 | 0.17 | 46.0 |
| 5/1/2015 8:29:56 | 41.67 | 37.87 | 841 | 1.22 | 0.17 | 46.0 |
| 5/1/2015 8:29:57 | 41.99 | 38.19 | 832 | 1.23 | 0.17 | 45.5 |
| 5/1/2015 8:29:57 | 42.32 | 38.52 | 842 | 1.20 | 0.17 | 46.1 |
| 5/1/2015 8:29:58 | 42.65 | 38.85 | 842 | 1.20 | 0.17 | 46.1 |
| 5/1/2015 8:29:58 | 42.98 | 39.18 | 842 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 8:29:58 | 43.31 | 39.51 | 847 | 1.21 | 0.17 | 46.3 |
| 5/1/2015 8:29:59 | 43.64 | 39.84 | 838 | 1.22 | 0.17 | 45.8 |
| 5/1/2015 8:29:59 | 43.96 | 40.16 | 858 | 1.22 | 0.16 | 46.9 |
| 5/1/2015 8:30:00 | 44.29 | 40.49 | 858 | 1.22 | 0.16 | 46.9 |
| 5/1/2015 8:30:00 | 44.62 | 40.82 | 820 | 1.23 | 0.17 | 44.8 |
| 5/1/2015 8:30:00 | 44.95 | 41.15 | 820 | 1.23 | 0.17 | 44.8 |
| 5/1/2015 8:30:01 | 45.28 | 41.48 | 834 | 1.22 | 0.17 | 45.6 |
| 5/1/2015 8:30:01 | 45.60 | 41.80 | 831 | 1.22 | 0.17 | 45.5 |
| 5/1/2015 8:30:02 | 45.93 | 42.13 | 838 | 1.22 | 0.17 | 45.9 |
| 5/1/2015 8:30:02 | 46.26 | 42.46 | 838 | 1.22 | 0.17 | 45.9 |
| 5/1/2015 8:30:02 | 46.59 | 42.79 | 832 | 1.23 | 0.17 | 45.5 |
| 5/1/2015 8:30:03 | 46.92 | 43.12 | 857 | 1.23 | 0.17 | 46.9 |
| 5/1/2015 8:30:04 | 47.24 | 43.44 | 841 | 1.21 | 0.17 | 46.0 |
| 5/1/2015 8:30:04 | 47.57 | 43.77 | 838 | 1.22 | 0.17 | 45.8 |
| 5/1/2015 8:30:05 | 47.90 | 44.10 | 838 | 1.22 | 0.17 | 45.8 |
| 5/1/2015 8:30:05 | 48.23 | 44.43 | 838 | 1.24 | 0.17 | 45.8 |
| 5/1/2015 8:30:05 | 48.56 | 44.76 | 808 | 1.24 | 0.17 | 44.2 |
| 5/1/2015 8:30:06 | 48.88 | 45.08 | 808 | 1.23 | 0.17 | 44.2 |
| 5/1/2015 8:30:06 | 49.21 | 45.41 | 829 | 1.22 | 0.17 | 45.3 |
| 5/1/2015 8:30:07 | 49.54 | 45.74 | 829 | 1.22 | 0.17 | 45.3 |
| 5/1/2015 8:30:07 | 49.87 | 46.07 | 831 | 1.23 | 0.17 | 45.4 |
| 5/1/2015 8:30:07 | 50.20 | 46.40 | 826 | 1.23 | 0.17 | 45.2 |
| 5/1/2015 8:30:08 | 50.53 | 46.73 | 829 | 1.22 | 0.17 | 45.4 |
| 5/1/2015 8:30:08 | 50.85 | 47.05 | 856 | 1.22 | 0.17 | 46.8 |
| 5/1/2015 8:30:09 | 51.18 | 47.38 | 833 | 1.24 | 0.17 | 45.5 |
| 5/1/2015 8:30:09 | 51.51 | 47.71 | 833 | 1.24 | 0.17 | 45.5 |
| 5/1/2015 8:30:09 | 51.84 | 48.04 | 819 | 1.22 | 0.17 | 44.8 |
| 5/1/2015 8:30:10 | 52.17 | 48.37 | 823 | 1.24 | 0.17 | 45.0 |
| 5/1/2015 8:30:10 | 52.49 | 48.69 | 809 | 1.24 | 0.17 | 44.3 |
| 5/1/2015 8:30:11 | 52.82 | 49.02 | 801 | 1.24 | 0.17 | 43.8 |
| 5/1/2015 8:30:11 | 53.15 | 49.35 | 783 | 1.24 | 0.17 | 42.8 |
| 5/1/2015 8:30:12 | 53.48 | 49.68 | 786 | 1.30 | 0.17 | 43.0 |
| 5/1/2015 8:30:12 | 53.81 | 50.01 | 769 | 1.62 | 0.17 | 42.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:30:31 | 54.13 | 50.33 | 69 | 1.24 | 1.13 | 3.8 |
| 5/1/2015 | 8:30:34 | 54.46 | 50.66 | 99 | 0.92 | 1.03 | 5.4 |
| 5/1/2015 | 8:30:36 | 54.79 | 50.99 | 173 | 1.15 | 1.05 | 9.5 |
| 5/1/2015 | 8:30:39 | 55.12 | 51.32 | 147 | 1.17 | 1.14 | 8.1 |
| 5/1/2015 | 8:30:42 | 55.45 | 51.65 | 107 | 1.17 | 1.10 | 5.8 |
| 5/1/2015 | 8:30:46 | 55.77 | 51.97 | 103 | 1.18 | 1.15 | 5.6 |
| 5/1/2015 | 8:30:49 | 56.10 | 52.30 | 101 | 1.17 | 1.23 | 5.5 |
| 5/1/2015 | 8:30:53 | 56.43 | 52.63 | 96 | 1.14 | 1.24 | 5.2 |
| 5/1/2015 | 8:30:57 | 56.76 | 52.96 | 90 | 1.12 | 1.09 | 4.9 |
| 5/1/2015 | 8:31:01 | 57.09 | 53.29 | 81 | 1.19 | 1.09 | 4.4 |
| 5/1/2015 | 8:31:05 | 57.41 | 53.61 | 101 | 1.15 | 1.15 | 5.5 |
| 5/1/2015 | 8:31:07 | 57.74 | 53.94 | 156 | 1.17 | 1.27 | 8.6 |
| 5/1/2015 | 8:31:10 | 58.07 | 54.27 | 127 | 1.11 | 1.27 | 7.0 |
| 5/1/2015 | 8:31:12 | 58.40 | 54.60 | 138 | 1.09 | 1.23 | 7.5 |
| 5/1/2015 | 8:31:13 | 58.46 | 54.66 | 139 | 0.70 | 1.17 | 7.6 |

## L4 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:28:15

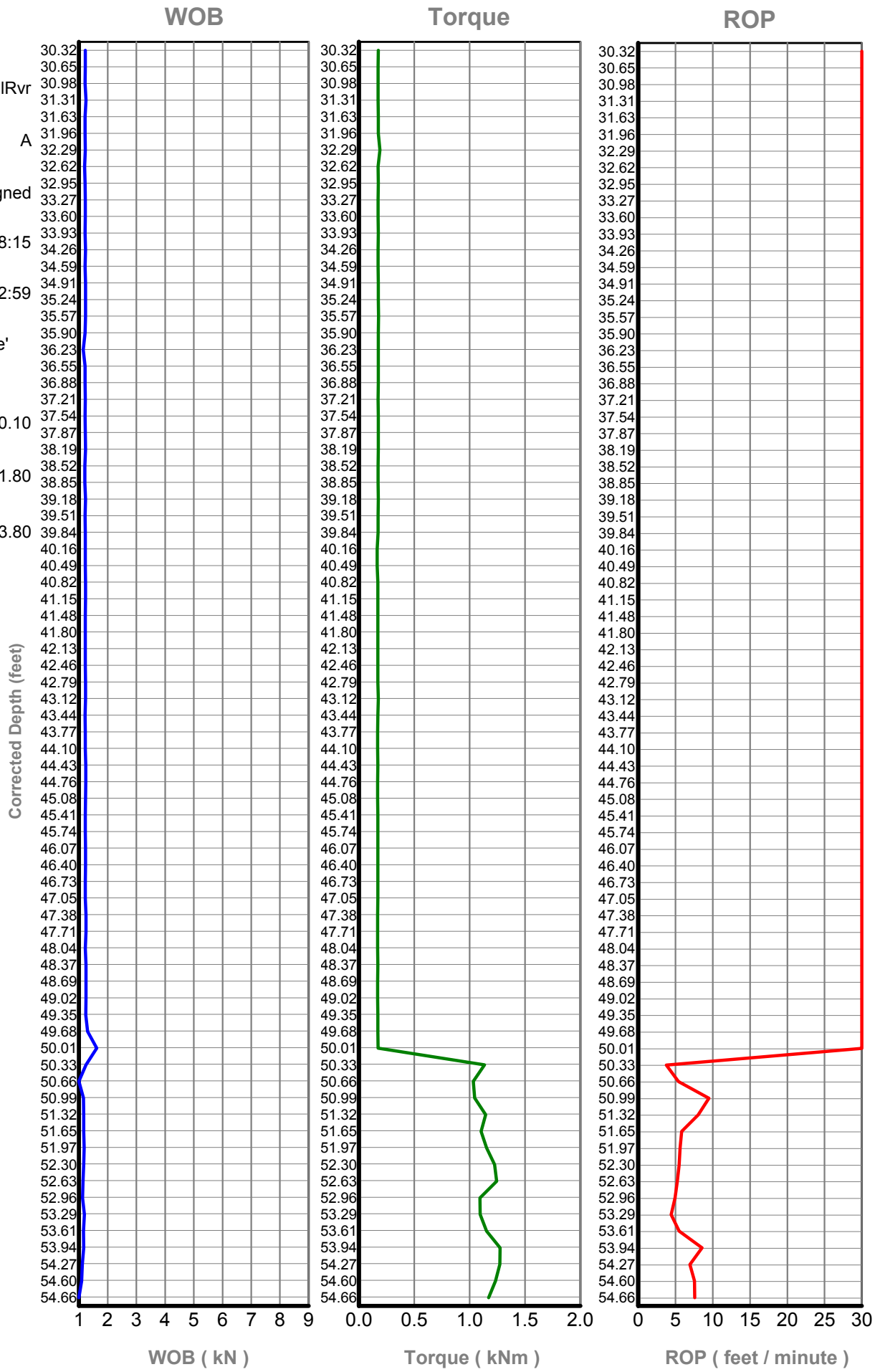
**End Date:**
5/1/2015 8:32:59

**Operator Note:**
'3.8 3.4 a Auto Complete'

**Northing:**
360,120.10

**Easting:**
242,061.80

**Tide (feet):**
3.80



## Hole: L40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:30:03 | 36.75 | 30.15 | 700 | 1.11 | 0.20 | 38.3 |
| 4/30/2015 22:30:04 | 37.07 | 30.47 | 710 | 1.10 | 0.20 | 38.8 |
| 4/30/2015 22:30:04 | 37.40 | 30.80 | 716 | 1.13 | 0.20 | 39.1 |
| 4/30/2015 22:30:05 | 37.73 | 31.13 | 713 | 1.11 | 0.22 | 39.0 |
| 4/30/2015 22:30:05 | 38.06 | 31.46 | 713 | 1.11 | 0.20 | 39.0 |
| 4/30/2015 22:30:06 | 38.39 | 31.79 | 715 | 1.12 | 0.21 | 39.1 |
| 4/30/2015 22:30:07 | 38.71 | 32.11 | 715 | 1.11 | 0.21 | 39.1 |
| 4/30/2015 22:30:07 | 39.04 | 32.44 | 715 | 1.11 | 0.21 | 39.1 |
| 4/30/2015 22:30:07 | 39.37 | 32.77 | 713 | 1.12 | 0.20 | 39.0 |
| 4/30/2015 22:30:07 | 39.70 | 33.10 | 702 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:08 | 40.03 | 33.43 | 702 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:09 | 40.35 | 33.75 | 729 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 22:30:09 | 40.68 | 34.08 | 716 | 1.11 | 0.20 | 39.2 |
| 4/30/2015 22:30:10 | 41.01 | 34.41 | 718 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 22:30:10 | 41.34 | 34.74 | 718 | 1.13 | 0.20 | 39.3 |
| 4/30/2015 22:30:11 | 41.67 | 35.07 | 707 | 1.12 | 0.20 | 38.7 |
| 4/30/2015 22:30:11 | 41.99 | 35.39 | 707 | 1.11 | 0.20 | 38.7 |
| 4/30/2015 22:30:12 | 42.32 | 35.72 | 702 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:12 | 42.65 | 36.05 | 702 | 1.11 | 0.20 | 38.4 |
| 4/30/2015 22:30:13 | 42.98 | 36.38 | 695 | 1.13 | 0.20 | 38.0 |
| 4/30/2015 22:30:13 | 43.31 | 36.71 | 695 | 1.12 | 0.20 | 38.0 |
| 4/30/2015 22:30:14 | 43.64 | 37.04 | 689 | 1.11 | 0.20 | 37.7 |
| 4/30/2015 22:30:14 | 43.96 | 37.36 | 701 | 1.11 | 0.20 | 38.4 |
| 4/30/2015 22:30:15 | 44.29 | 37.69 | 701 | 1.13 | 0.20 | 38.4 |
| 4/30/2015 22:30:15 | 44.62 | 38.02 | 698 | 1.11 | 0.20 | 38.1 |
| 4/30/2015 22:30:16 | 44.95 | 38.35 | 698 | 1.12 | 0.20 | 38.1 |
| 4/30/2015 22:30:16 | 45.28 | 38.68 | 703 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:17 | 45.60 | 39.00 | 711 | 1.11 | 0.20 | 38.9 |
| 4/30/2015 22:30:17 | 45.93 | 39.33 | 711 | 1.12 | 0.20 | 38.9 |
| 4/30/2015 22:30:18 | 46.26 | 39.66 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 22:30:19 | 46.59 | 39.99 | 709 | 1.13 | 0.20 | 38.8 |
| 4/30/2015 22:30:19 | 46.92 | 40.32 | 703 | 1.11 | 0.20 | 38.4 |
| 4/30/2015 22:30:20 | 47.24 | 40.64 | 703 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:20 | 47.57 | 40.97 | 708 | 1.11 | 0.20 | 38.7 |
| 4/30/2015 22:30:21 | 47.90 | 41.30 | 700 | 1.13 | 0.20 | 38.3 |
| 4/30/2015 22:30:21 | 48.23 | 41.63 | 700 | 1.13 | 0.20 | 38.3 |
| 4/30/2015 22:30:21 | 48.56 | 41.96 | 691 | 1.11 | 0.20 | 37.8 |
| 4/30/2015 22:30:22 | 48.88 | 42.28 | 698 | 1.08 | 0.20 | 38.2 |
| 4/30/2015 22:30:22 | 49.21 | 42.61 | 698 | 1.11 | 0.20 | 38.2 |
| 4/30/2015 22:30:23 | 49.54 | 42.94 | 713 | 1.13 | 0.20 | 39.0 |
| 4/30/2015 22:30:23 | 49.87 | 43.27 | 690 | 1.10 | 0.20 | 37.7 |
| 4/30/2015 22:30:24 | 50.20 | 43.60 | 702 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:24 | 50.53 | 43.93 | 702 | 1.12 | 0.20 | 38.4 |
| 4/30/2015 22:30:25 | 50.85 | 44.25 | 711 | 1.11 | 0.20 | 38.9 |
| 4/30/2015 22:30:25 | 51.18 | 44.58 | 694 | 1.11 | 0.20 | 38.0 |
| 4/30/2015 22:30:26 | 51.51 | 44.91 | 694 | 1.11 | 0.20 | 38.0 |
| 4/30/2015 22:30:26 | 51.84 | 45.24 | 695 | 1.11 | 0.20 | 38.0 |
| 4/30/2015 22:30:27 | 52.17 | 45.57 | 709 | 1.12 | 0.20 | 38.8 |
| 4/30/2015 22:30:28 | 52.49 | 45.89 | 705 | 1.12 | 0.20 | 38.6 |
| 4/30/2015 22:30:28 | 52.82 | 46.22 | 682 | 1.11 | 0.20 | 37.3 |
| 4/30/2015 22:30:29 | 53.15 | 46.55 | 712 | 1.11 | 0.20 | 38.9 |
| 4/30/2015 22:30:29 | 53.48 | 46.88 | 685 | 1.11 | 0.20 | 37.4 |
| 4/30/2015 22:30:30 | 53.81 | 47.21 | 685 | 1.12 | 0.20 | 37.4 |
| 4/30/2015 22:30:30 | 54.13 | 47.53 | 697 | 1.11 | 0.20 | 38.1 |
| 4/30/2015 22:30:31 | 54.46 | 47.86 | 689 | 1.12 | 0.20 | 37.7 |
| 4/30/2015 22:30:31 | 54.79 | 48.19 | 689 | 1.13 | 0.20 | 37.7 |
| 4/30/2015 22:30:32 | 55.12 | 48.52 | 696 | 1.10 | 0.20 | 38.1 |
| 4/30/2015 22:30:32 | 55.45 | 48.85 | 696 | 1.11 | 0.20 | 38.1 |
| 4/30/2015 22:30:33 | 55.77 | 49.17 | 683 | 1.12 | 0.20 | 37.3 |
| 4/30/2015 22:30:33 | 56.10 | 49.50 | 683 | 1.15 | 0.20 | 37.3 |
| 4/30/2015 22:31:02 | 56.43 | 49.83 | 0 | 1.09 | 0.79 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:31:03 | 56.76 | 50.16 | 88 | 1.13 | 0.82 | 4.8 |
| 4/30/2015 | 22:31:04 | 57.09 | 50.49 | 318 | 1.13 | 1.10 | 17.4 |
| 4/30/2015 | 22:31:05 | 57.41 | 50.81 | 466 | 1.06 | 1.68 | 25.5 |
| 4/30/2015 | 22:31:06 | 57.74 | 51.14 | 276 | 1.17 | 1.32 | 15.1 |
| 4/30/2015 | 22:31:09 | 58.07 | 51.47 | 130 | 1.17 | 0.98 | 7.1 |
| 4/30/2015 | 22:31:10 | 58.40 | 51.80 | 185 | 1.12 | 1.04 | 10.1 |
| 4/30/2015 | 22:31:12 | 58.73 | 52.13 | 297 | 1.21 | 1.15 | 16.2 |
| 4/30/2015 | 22:31:13 | 59.06 | 52.46 | 231 | 1.23 | 1.43 | 12.6 |
| 4/30/2015 | 22:31:15 | 59.38 | 52.78 | 170 | 1.19 | 1.43 | 9.3 |
| 4/30/2015 | 22:31:23 | 59.71 | 53.11 | 43 | 1.15 | 1.29 | 2.4 |
| 4/30/2015 | 22:31:27 | 60.04 | 53.44 | 100 | 1.13 | 1.02 | 5.5 |
| 4/30/2015 | 22:31:34 | 60.37 | 53.77 | 46 | 1.10 | 0.97 | 2.5 |
| 4/30/2015 | 22:31:42 | 60.70 | 54.10 | 39 | 1.05 | 1.54 | 2.1 |
| 4/30/2015 | 22:32:45 | 61.02 | 54.42 | 2 | 1.17 | 1.07 | 0.1 |
| 4/30/2015 | 22:32:54 | 61.35 | 54.75 | 39 | 1.10 | 1.47 | 2.1 |
| 4/30/2015 | 22:32:55 | 61.40 | 54.80 | 41 | 1.20 | 1.57 | 2.2 |

## L40 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:28:06

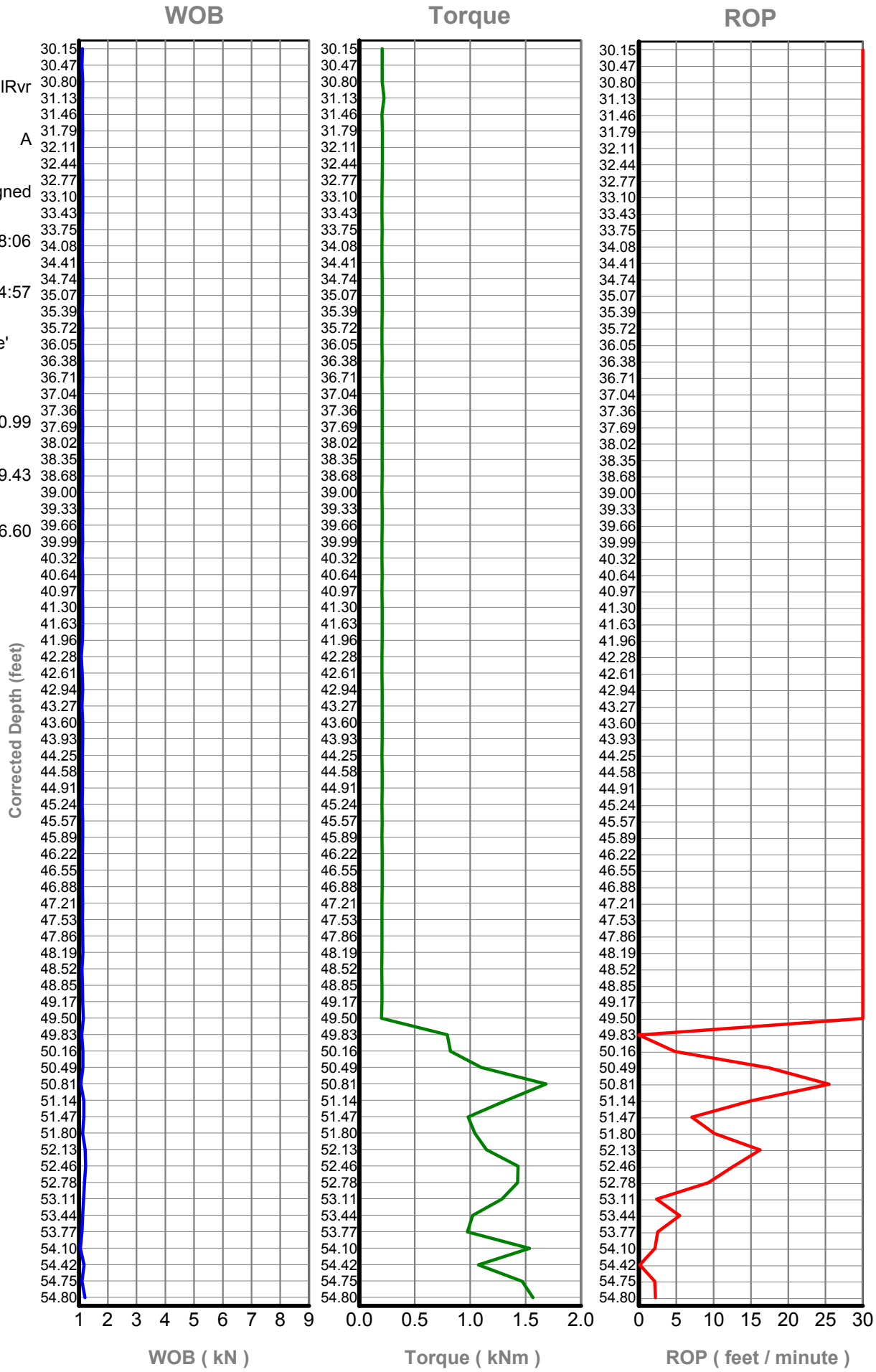
**End Date:**
4/30/2015 22:34:57

**Operator Note:**
'6.6 6.4 a Auto Complete'

**Northing:**
360,350.99

**Easting:**
242,709.43

**Tide (feet):**
6.60



## Hole: L41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:31:04 | 36.75 | 30.15 | 1,112 | 0.33 | 0.37 | 60.8 |
| 4/30/2015 22:31:05 | 37.07 | 30.47 | 1,112 | 0.33 | 0.37 | 60.8 |
| 4/30/2015 22:31:05 | 37.40 | 30.80 | 1,112 | 0.35 | 0.37 | 60.8 |
| 4/30/2015 22:31:06 | 37.73 | 31.13 | 1,097 | 0.32 | 0.37 | 60.0 |
| 4/30/2015 22:31:06 | 38.06 | 31.46 | 1,097 | 0.32 | 0.37 | 60.0 |
| 4/30/2015 22:31:06 | 38.39 | 31.79 | 1,097 | 0.31 | 0.37 | 60.0 |
| 4/30/2015 22:31:07 | 38.71 | 32.11 | 1,097 | 0.31 | 0.37 | 60.0 |
| 4/30/2015 22:31:07 | 39.04 | 32.44 | 1,110 | 0.32 | 0.37 | 60.7 |
| 4/30/2015 22:31:07 | 39.37 | 32.77 | 1,119 | 0.34 | 0.36 | 61.2 |
| 4/30/2015 22:31:08 | 39.70 | 33.10 | 1,119 | 0.34 | 0.36 | 61.2 |
| 4/30/2015 22:31:08 | 40.03 | 33.43 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/30/2015 22:31:08 | 40.35 | 33.75 | 1,120 | 0.29 | 0.38 | 61.2 |
| 4/30/2015 22:31:08 | 40.68 | 34.08 | 1,140 | 0.41 | 0.38 | 62.4 |
| 4/30/2015 22:31:09 | 41.01 | 34.41 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/30/2015 22:31:09 | 41.34 | 34.74 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/30/2015 22:31:09 | 41.67 | 35.07 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:31:10 | 41.99 | 35.39 | 1,140 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:31:10 | 42.32 | 35.72 | 1,149 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 22:31:10 | 42.65 | 36.05 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:11 | 42.98 | 36.38 | 1,135 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:11 | 43.31 | 36.71 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:11 | 43.64 | 37.04 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:11 | 43.96 | 37.36 | 1,142 | 0.33 | 0.37 | 62.4 |
| 4/30/2015 22:31:12 | 44.29 | 37.69 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:31:12 | 44.62 | 38.02 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:31:12 | 44.95 | 38.35 | 1,139 | 0.32 | 0.37 | 62.3 |
| 4/30/2015 22:31:13 | 45.28 | 38.68 | 1,139 | 0.32 | 0.37 | 62.3 |
| 4/30/2015 22:31:13 | 45.60 | 39.00 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:13 | 45.93 | 39.33 | 1,145 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 22:31:14 | 46.26 | 39.66 | 1,145 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 22:31:14 | 46.59 | 39.99 | 1,139 | 0.34 | 0.37 | 62.3 |
| 4/30/2015 22:31:14 | 46.92 | 40.32 | 1,139 | 0.34 | 0.37 | 62.3 |
| 4/30/2015 22:31:14 | 47.24 | 40.64 | 1,136 | 0.32 | 0.37 | 62.1 |
| 4/30/2015 22:31:15 | 47.57 | 40.97 | 1,133 | 0.35 | 0.37 | 62.0 |
| 4/30/2015 22:31:16 | 47.90 | 41.30 | 1,133 | 0.35 | 0.37 | 62.0 |
| 4/30/2015 22:31:15 | 48.23 | 41.63 | 1,139 | 0.31 | 0.37 | 62.3 |
| 4/30/2015 22:31:16 | 48.56 | 41.96 | 1,133 | 0.32 | 0.38 | 62.0 |
| 4/30/2015 22:31:17 | 48.88 | 42.28 | 1,133 | 0.32 | 0.38 | 62.0 |
| 4/30/2015 22:31:17 | 49.21 | 42.61 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:17 | 49.54 | 42.94 | 1,136 | 0.31 | 0.38 | 62.1 |
| 4/30/2015 22:31:17 | 49.87 | 43.27 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/30/2015 22:31:18 | 50.20 | 43.60 | 1,119 | 0.31 | 0.37 | 61.2 |
| 4/30/2015 22:31:18 | 50.53 | 43.93 | 1,132 | 0.31 | 0.37 | 61.9 |
| 4/30/2015 22:31:18 | 50.85 | 44.25 | 1,140 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 22:31:19 | 51.18 | 44.58 | 1,140 | 0.31 | 0.37 | 62.4 |
| 4/30/2015 22:31:19 | 51.51 | 44.91 | 1,143 | 0.31 | 0.38 | 62.5 |
| 4/30/2015 22:31:19 | 51.84 | 45.24 | 1,143 | 0.31 | 0.37 | 62.5 |
| 4/30/2015 22:31:20 | 52.17 | 45.57 | 1,143 | 0.31 | 0.37 | 62.5 |
| 4/30/2015 22:31:20 | 52.49 | 45.89 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:31:20 | 52.82 | 46.22 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:31:20 | 53.15 | 46.55 | 1,150 | 0.31 | 0.37 | 62.9 |
| 4/30/2015 22:31:21 | 53.48 | 46.88 | 1,136 | 0.31 | 0.37 | 62.1 |
| 4/30/2015 22:31:21 | 53.81 | 47.21 | 1,136 | 0.31 | 0.37 | 62.1 |
| 4/30/2015 22:31:21 | 54.13 | 47.53 | 1,127 | 0.31 | 0.37 | 61.6 |
| 4/30/2015 22:31:22 | 54.46 | 47.86 | 1,127 | 0.31 | 0.37 | 61.6 |
| 4/30/2015 22:31:22 | 54.79 | 48.19 | 1,133 | 0.31 | 0.37 | 62.0 |
| 4/30/2015 22:31:22 | 55.12 | 48.52 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 22:31:23 | 55.45 | 48.85 | 1,130 | 0.31 | 0.38 | 61.8 |
| 4/30/2015 22:31:23 | 55.77 | 49.17 | 1,127 | 0.31 | 0.37 | 61.6 |
| 4/30/2015 22:31:23 | 56.10 | 49.50 | 1,127 | 0.31 | 0.37 | 61.6 |
| 4/30/2015 22:31:23 | 56.43 | 49.83 | 1,115 | 0.31 | 0.37 | 61.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:31:24 | 56.76 | 50.16 | 1,109 | 0.29 | 0.41 | 60.7 |
| 4/30/2015 | 22:31:28 | 57.09 | 50.49 | 0 | 3.78 | 0.42 | 0.0 |
| 4/30/2015 | 22:31:29 | 57.41 | 50.81 | 123 | 4.29 | 0.45 | 6.7 |
| 4/30/2015 | 22:31:32 | 57.74 | 51.14 | 153 | 4.25 | 0.44 | 8.4 |
| 4/30/2015 | 22:31:34 | 58.07 | 51.47 | 121 | 5.74 | 0.47 | 6.6 |
| 4/30/2015 | 22:31:38 | 58.40 | 51.80 | 124 | 6.17 | 0.44 | 6.8 |
| 4/30/2015 | 22:31:43 | 58.73 | 52.13 | 43 | 5.56 | 0.44 | 2.3 |
| 4/30/2015 | 22:31:44 | 59.06 | 52.46 | 163 | 3.18 | 0.40 | 8.9 |
| 4/30/2015 | 22:31:44 | 59.38 | 52.78 | 249 | 3.00 | 0.42 | 13.6 |
| 4/30/2015 | 22:31:45 | 59.71 | 53.11 | 403 | 2.86 | 0.43 | 22.0 |
| 4/30/2015 | 22:31:46 | 60.04 | 53.44 | 403 | 2.70 | 0.42 | 22.0 |
| 4/30/2015 | 22:31:47 | 60.37 | 53.77 | 459 | 3.02 | 0.44 | 25.1 |
| 4/30/2015 | 22:31:49 | 60.70 | 54.10 | 261 | 3.20 | 0.46 | 14.3 |
| 4/30/2015 | 22:31:55 | 61.02 | 54.42 | 69 | 3.03 | 0.46 | 3.8 |
| 4/30/2015 | 22:32:01 | 61.35 | 54.75 | 58 | 3.04 | 0.46 | 3.1 |

## L41 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:29:31

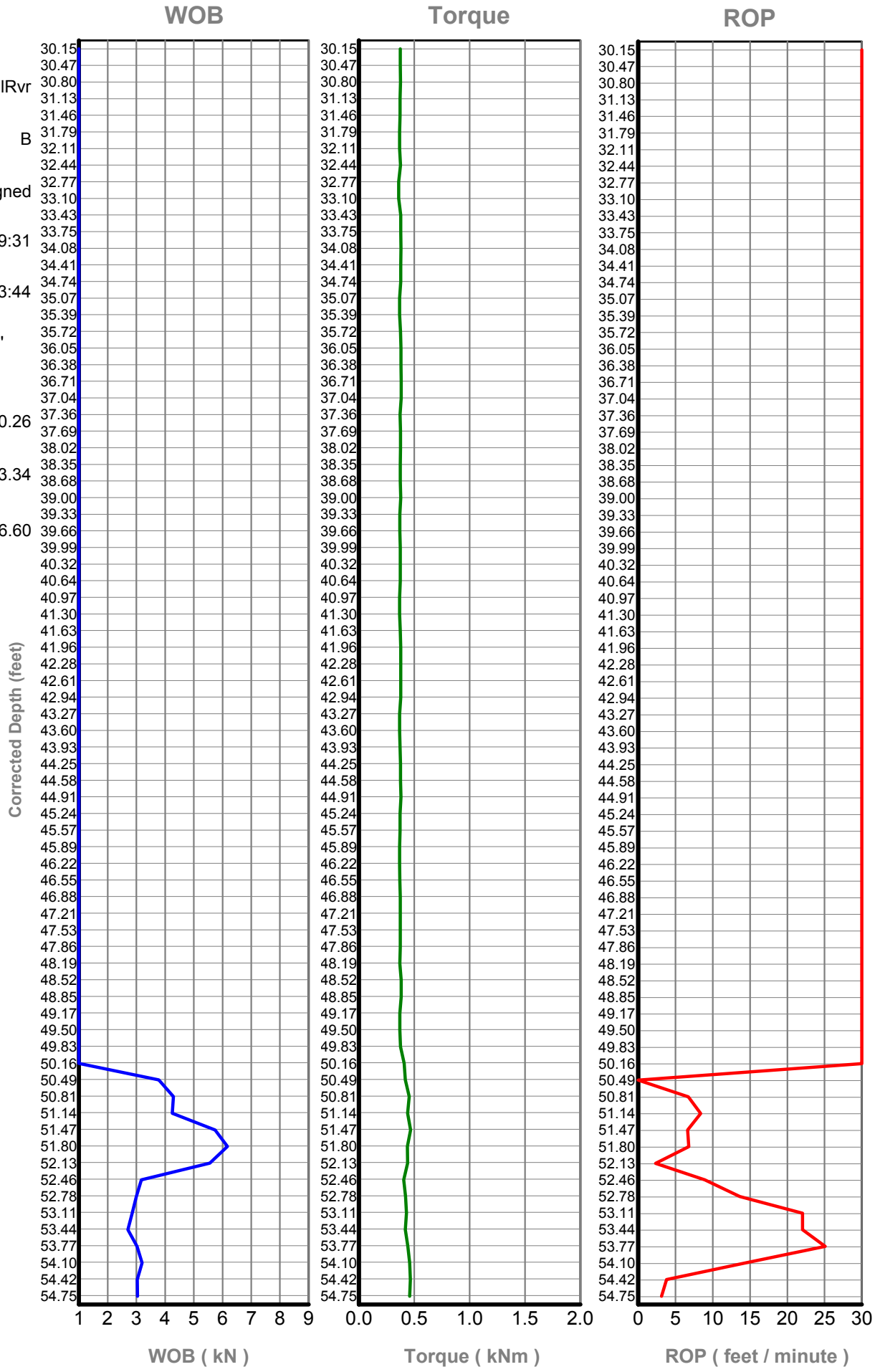
**End Date:**
4/30/2015 22:33:44

**Operator Note:**
'6.6 6.4b Auto Complete'

**Northing:**
360,390.26

**Easting:**
242,773.34

**Tide (feet):**
6.60



## Hole: L42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:29:21 | 36.75 | 30.15 | 971 | 1.14 | 0.29 | 53.1 |
| 4/30/2015 22:29:22 | 37.07 | 30.47 | 973 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 22:29:22 | 37.40 | 30.80 | 973 | 1.14 | 0.29 | 53.2 |
| 4/30/2015 22:29:22 | 37.73 | 31.13 | 990 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:23 | 38.06 | 31.46 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 22:29:23 | 38.39 | 31.79 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 22:29:23 | 38.71 | 32.11 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:24 | 39.04 | 32.44 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:24 | 39.37 | 32.77 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:24 | 39.70 | 33.10 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:25 | 40.03 | 33.43 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 22:29:25 | 40.35 | 33.75 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 22:29:25 | 40.68 | 34.08 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:26 | 41.01 | 34.41 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 22:29:26 | 41.34 | 34.74 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:27 | 41.67 | 35.07 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:27 | 41.99 | 35.39 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:27 | 42.32 | 35.72 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:28 | 42.65 | 36.05 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:28 | 42.98 | 36.38 | 991 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:28 | 43.31 | 36.71 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 22:29:29 | 43.64 | 37.04 | 997 | 1.14 | 0.29 | 54.5 |
| 4/30/2015 22:29:29 | 43.96 | 37.36 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:29 | 44.29 | 37.69 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:30 | 44.62 | 38.02 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:30 | 44.95 | 38.35 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:31 | 45.28 | 38.68 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:31 | 45.60 | 39.00 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 22:29:32 | 45.93 | 39.33 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 22:29:32 | 46.26 | 39.66 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 22:29:32 | 46.59 | 39.99 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 22:29:33 | 46.92 | 40.32 | 977 | 1.14 | 0.29 | 53.4 |
| 4/30/2015 22:29:33 | 47.24 | 40.64 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 22:29:33 | 47.57 | 40.97 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:34 | 47.90 | 41.30 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:34 | 48.23 | 41.63 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 22:29:34 | 48.56 | 41.96 | 989 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:35 | 48.88 | 42.28 | 1,004 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 22:29:35 | 49.21 | 42.61 | 1,004 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 22:29:35 | 49.54 | 42.94 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:36 | 49.87 | 43.27 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:36 | 50.20 | 43.60 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:36 | 50.53 | 43.93 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:37 | 50.85 | 44.25 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:37 | 51.18 | 44.58 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:37 | 51.51 | 44.91 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:38 | 51.84 | 45.24 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:38 | 52.17 | 45.57 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 22:29:39 | 52.49 | 45.89 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 22:29:39 | 52.82 | 46.22 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:39 | 53.15 | 46.55 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:40 | 53.48 | 46.88 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:40 | 53.81 | 47.21 | 992 | 1.14 | 0.29 | 54.2 |
| 4/30/2015 22:29:40 | 54.13 | 47.53 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:41 | 54.46 | 47.86 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:41 | 54.79 | 48.19 | 983 | 1.14 | 0.29 | 53.7 |
| 4/30/2015 22:29:41 | 55.12 | 48.52 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:42 | 55.45 | 48.85 | 988 | 1.14 | 0.29 | 54.1 |
| 4/30/2015 22:29:42 | 55.77 | 49.17 | 995 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 22:29:43 | 56.10 | 49.50 | 986 | 1.14 | 0.29 | 53.9 |
| 4/30/2015 22:29:43 | 56.43 | 49.83 | 983 | 1.14 | 0.29 | 53.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:29:44 | 56.76 | 50.16 | 983 | 1.14 | 0.29 | 53.8 |
| 4/30/2015 | 22:29:44 | 57.09 | 50.49 | 980 | 1.14 | 0.29 | 53.6 |
| 4/30/2015 | 22:29:44 | 57.41 | 50.81 | 966 | 1.14 | 0.29 | 52.8 |
| 4/30/2015 | 22:30:01 | 57.74 | 51.14 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 22:30:03 | 58.07 | 51.47 | 100 | 1.14 | 0.29 | 5.5 |
| 4/30/2015 | 22:30:03 | 58.40 | 51.80 | 177 | 1.14 | 0.29 | 9.7 |
| 4/30/2015 | 22:30:04 | 58.73 | 52.13 | 301 | 1.14 | 0.29 | 16.4 |
| 4/30/2015 | 22:30:04 | 59.06 | 52.46 | 414 | 1.14 | 0.29 | 22.7 |
| 4/30/2015 | 22:30:13 | 59.38 | 52.78 | 3 | 1.14 | 0.29 | 0.2 |
| 4/30/2015 | 22:30:15 | 59.71 | 53.11 | 60 | 1.14 | 0.29 | 3.3 |
| 4/30/2015 | 22:30:16 | 60.04 | 53.44 | 263 | 1.14 | 0.29 | 14.4 |
| 4/30/2015 | 22:30:16 | 60.37 | 53.77 | 329 | 1.14 | 0.29 | 18.0 |
| 4/30/2015 | 22:30:17 | 60.70 | 54.10 | 423 | 1.14 | 0.29 | 23.1 |
| 4/30/2015 | 22:30:18 | 61.02 | 54.42 | 538 | 1.14 | 0.29 | 29.4 |
| 4/30/2015 | 22:30:21 | 61.35 | 54.75 | 43 | 1.14 | 0.29 | 2.3 |
| 4/30/2015 | 22:30:22 | 61.45 | 54.85 | 66 | 1.14 | 0.29 | 3.6 |

## L42 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 22:28:08

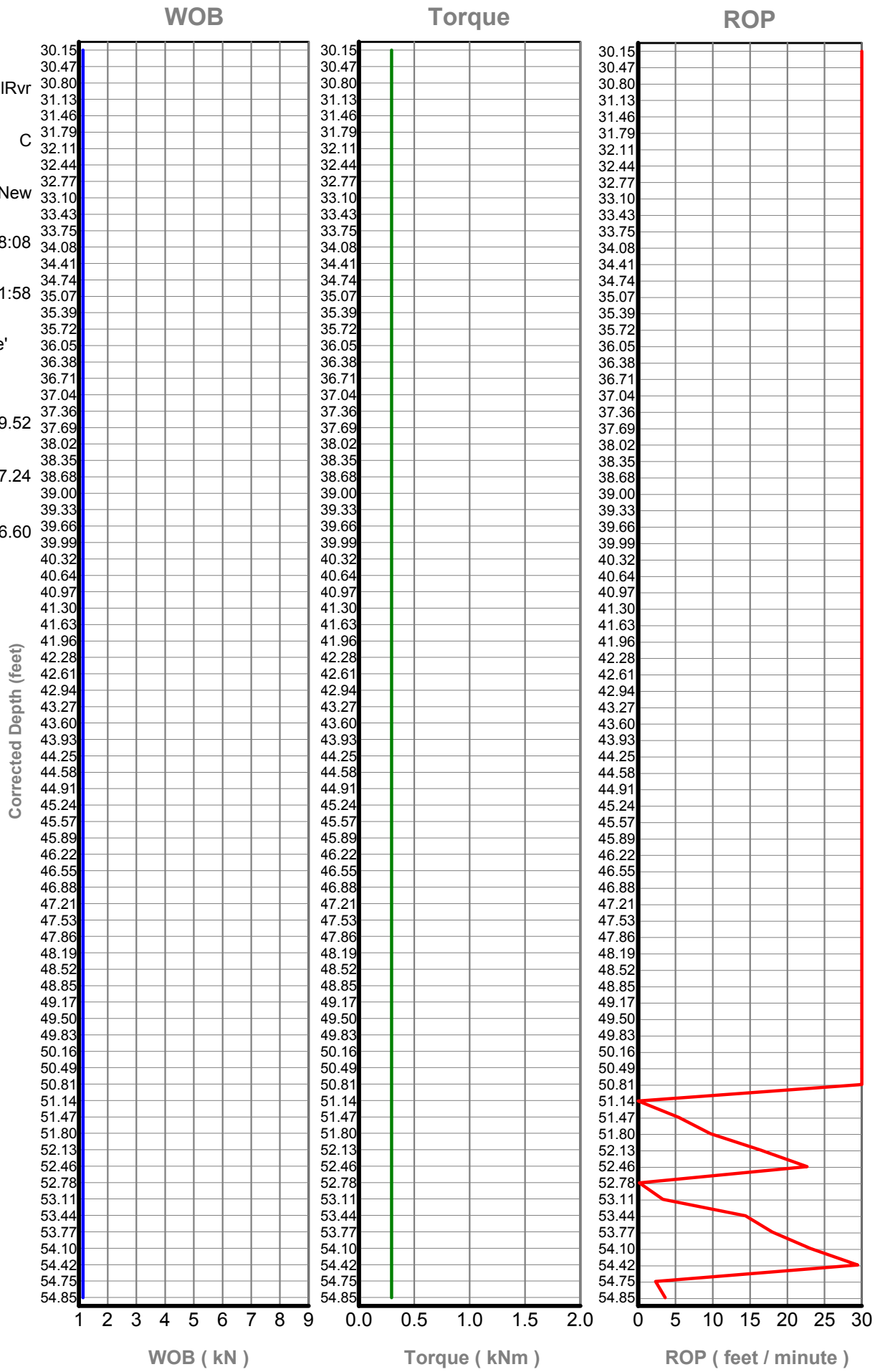
**End Date:**
4/30/2015 22:31:58

**Operator Note:**
'6.6 6.4 c Auto Complete'

**Northing:**
360,429.52

**Easting:**
242,837.24

**Tide (feet):**
6.60



## Hole: L43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:03:47 | 31.50 | 30.30 | 884 | 1.16 | 0.16 | 48.4 |
| 5/1/2015 18:03:48 | 31.82 | 30.62 | 886 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:03:48 | 32.15 | 30.95 | 883 | 1.18 | 0.16 | 48.3 |
| 5/1/2015 18:03:49 | 32.48 | 31.28 | 883 | 1.18 | 0.16 | 48.3 |
| 5/1/2015 18:03:49 | 32.81 | 31.61 | 886 | 1.18 | 0.16 | 48.4 |
| 5/1/2015 18:03:49 | 33.14 | 31.94 | 891 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 18:03:50 | 33.46 | 32.26 | 903 | 1.16 | 0.16 | 49.4 |
| 5/1/2015 18:03:50 | 33.79 | 32.59 | 890 | 1.16 | 0.17 | 48.7 |
| 5/1/2015 18:03:51 | 34.12 | 32.92 | 890 | 1.16 | 0.17 | 48.7 |
| 5/1/2015 18:03:51 | 34.45 | 33.25 | 896 | 1.18 | 0.16 | 49.0 |
| 5/1/2015 18:03:51 | 34.78 | 33.58 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 18:03:52 | 35.11 | 33.91 | 890 | 1.18 | 0.16 | 48.7 |
| 5/1/2015 18:03:53 | 35.43 | 34.23 | 890 | 1.18 | 0.16 | 48.7 |
| 5/1/2015 18:03:52 | 35.76 | 34.56 | 886 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:03:53 | 36.09 | 34.89 | 894 | 1.18 | 0.16 | 48.9 |
| 5/1/2015 18:03:54 | 36.42 | 35.22 | 878 | 1.15 | 0.16 | 48.0 |
| 5/1/2015 18:03:54 | 36.75 | 35.55 | 878 | 1.15 | 0.16 | 48.0 |
| 5/1/2015 18:03:54 | 37.07 | 35.87 | 888 | 1.15 | 0.16 | 48.6 |
| 5/1/2015 18:03:55 | 37.40 | 36.20 | 886 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:03:55 | 37.73 | 36.53 | 881 | 1.18 | 0.16 | 48.2 |
| 5/1/2015 18:03:56 | 38.06 | 36.86 | 881 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 18:03:56 | 38.39 | 37.19 | 881 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 18:03:56 | 38.71 | 37.51 | 885 | 1.16 | 0.16 | 48.4 |
| 5/1/2015 18:03:57 | 39.04 | 37.84 | 893 | 1.16 | 0.16 | 48.8 |
| 5/1/2015 18:03:57 | 39.37 | 38.17 | 885 | 1.21 | 0.16 | 48.4 |
| 5/1/2015 18:03:58 | 39.70 | 38.50 | 885 | 1.21 | 0.16 | 48.4 |
| 5/1/2015 18:03:58 | 40.03 | 38.83 | 887 | 1.16 | 0.16 | 48.5 |
| 5/1/2015 18:03:58 | 40.35 | 39.15 | 895 | 1.18 | 0.16 | 48.9 |
| 5/1/2015 18:03:59 | 40.68 | 39.48 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 18:03:59 | 41.01 | 39.81 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:04:00 | 41.34 | 40.14 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:04:00 | 41.67 | 40.47 | 882 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 18:04:00 | 41.99 | 40.79 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 18:04:01 | 42.32 | 41.12 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 18:04:01 | 42.65 | 41.45 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 18:04:01 | 42.98 | 41.78 | 890 | 1.17 | 0.16 | 48.6 |
| 5/1/2015 18:04:02 | 43.31 | 42.11 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:04:02 | 43.64 | 42.44 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:04:03 | 43.96 | 42.76 | 880 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 18:04:04 | 44.29 | 43.09 | 880 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 18:04:04 | 44.62 | 43.42 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 18:04:04 | 44.95 | 43.75 | 877 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 18:04:05 | 45.28 | 44.08 | 877 | 1.16 | 0.16 | 48.0 |
| 5/1/2015 18:04:05 | 45.60 | 44.40 | 877 | 1.16 | 0.16 | 48.0 |
| 5/1/2015 18:04:05 | 45.93 | 44.73 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 18:04:06 | 46.26 | 45.06 | 882 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 18:04:06 | 46.59 | 45.39 | 879 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 18:04:07 | 46.92 | 45.72 | 876 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 18:04:07 | 47.24 | 46.04 | 876 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 18:04:07 | 47.57 | 46.37 | 879 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 18:04:08 | 47.90 | 46.70 | 866 | 1.17 | 0.16 | 47.3 |
| 5/1/2015 18:04:08 | 48.23 | 47.03 | 874 | 1.16 | 0.16 | 47.8 |
| 5/1/2015 18:04:09 | 48.56 | 47.36 | 874 | 1.16 | 0.16 | 47.8 |
| 5/1/2015 18:04:09 | 48.88 | 47.68 | 871 | 1.17 | 0.16 | 47.7 |
| 5/1/2015 18:04:09 | 49.21 | 48.01 | 872 | 1.18 | 0.16 | 47.7 |
| 5/1/2015 18:04:10 | 49.54 | 48.34 | 877 | 1.24 | 0.16 | 47.9 |
| 5/1/2015 18:04:21 | 49.87 | 48.67 | 3 | 1.12 | 0.70 | 0.2 |
| 5/1/2015 18:04:22 | 50.20 | 49.00 | 152 | 1.17 | 1.13 | 8.3 |
| 5/1/2015 18:04:22 | 50.53 | 49.33 | 223 | 1.09 | 1.68 | 12.2 |
| 5/1/2015 18:04:23 | 50.85 | 49.65 | 305 | 1.26 | 1.04 | 16.7 |
| 5/1/2015 18:04:26 | 51.18 | 49.98 | 232 | 1.17 | 1.07 | 12.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 18:04:27 | 51.51 | 50.31 | 203 | 1.18 | 0.96 | 11.1 |
| 5/1/2015 | 18:04:28 | 51.84 | 50.64 | 271 | 1.16 | 0.86 | 14.8 |
| 5/1/2015 | 18:04:29 | 52.17 | 50.97 | 312 | 1.19 | 1.11 | 17.1 |
| 5/1/2015 | 18:04:32 | 52.49 | 51.29 | 110 | 1.19 | 1.14 | 6.0 |
| 5/1/2015 | 18:04:35 | 52.82 | 51.62 | 148 | 1.13 | 1.09 | 8.1 |
| 5/1/2015 | 18:04:36 | 53.15 | 51.95 | 249 | 1.11 | 0.88 | 13.6 |
| 5/1/2015 | 18:04:37 | 53.48 | 52.28 | 300 | 1.20 | 0.91 | 16.4 |
| 5/1/2015 | 18:04:38 | 53.81 | 52.61 | 318 | 1.13 | 0.93 | 17.4 |
| 5/1/2015 | 18:04:39 | 54.13 | 52.93 | 350 | 1.09 | 0.85 | 19.1 |
| 5/1/2015 | 18:04:40 | 54.46 | 53.26 | 350 | 1.17 | 0.92 | 19.1 |
| 5/1/2015 | 18:04:42 | 54.79 | 53.59 | 236 | 1.14 | 1.08 | 12.9 |
| 5/1/2015 | 18:04:45 | 55.12 | 53.92 | 144 | 1.13 | 1.03 | 7.9 |
| 5/1/2015 | 18:04:46 | 55.45 | 54.25 | 179 | 1.11 | 1.01 | 9.8 |
| 5/1/2015 | 18:04:48 | 55.77 | 54.57 | 208 | 1.17 | 0.95 | 11.4 |
| 5/1/2015 | 18:04:49 | 56.10 | 54.90 | 222 | 1.19 | 1.01 | 12.1 |
| 5/1/2015 | 18:04:51 | 56.43 | 55.23 | 229 | 1.11 | 0.93 | 12.5 |

## L43 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 17:59:23

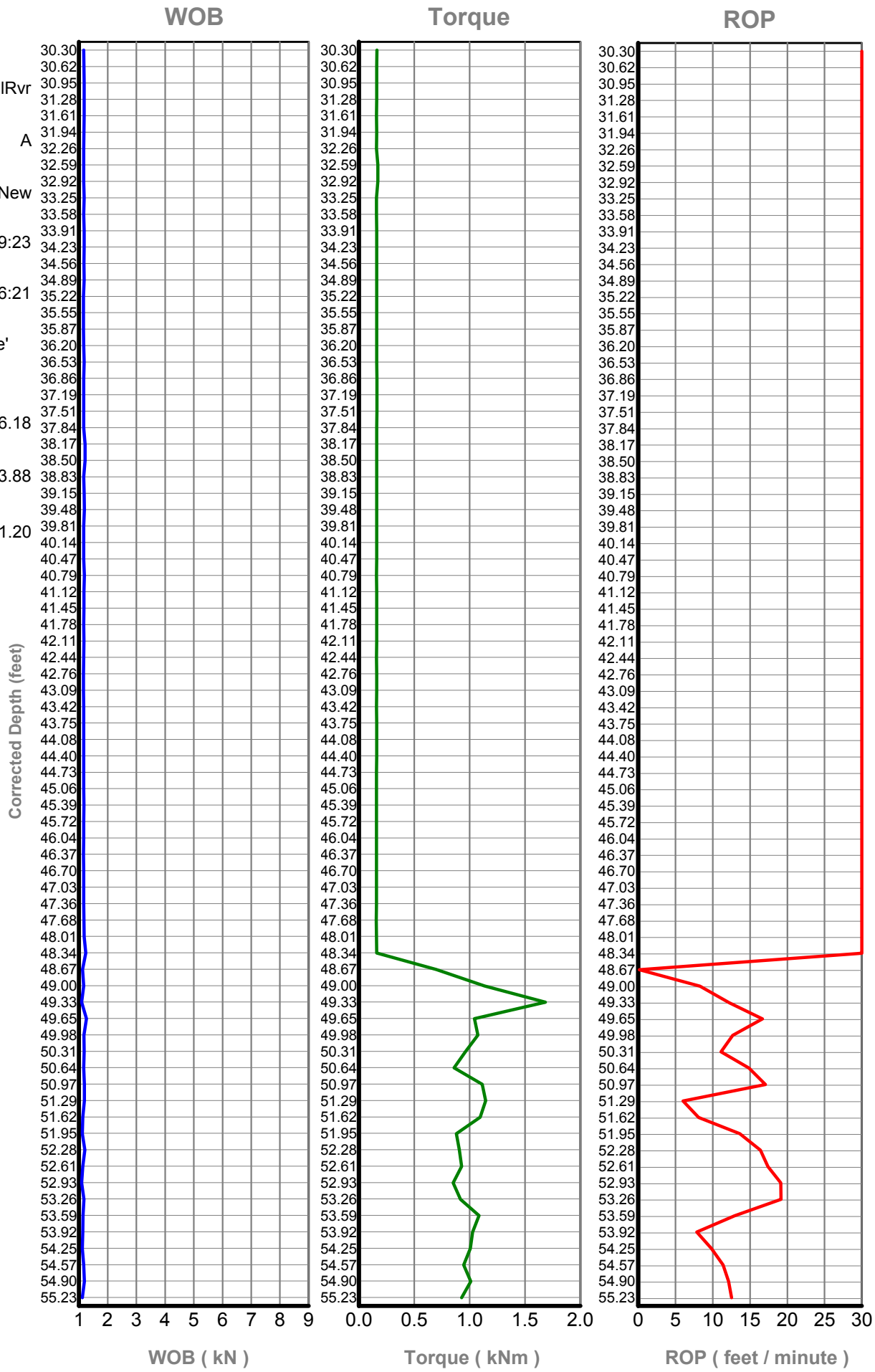
**End Date:**
5/1/2015 18:06:21

**Operator Note:**
'1.2 1.3 a Auto Complete'

**Northing:**
359,576.18

**Easting:**
241,613.88

**Tide (feet):**
1.20



## Hole: L44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:00:14 | 31.50 | 30.30 | 1,204 | 0.27 | 0.37 | 65.9 |
| 5/1/2015 18:00:14 | 31.82 | 30.62 | 1,208 | 0.27 | 0.37 | 66.1 |
| 5/1/2015 18:00:15 | 32.15 | 30.95 | 1,208 | 0.27 | 0.37 | 66.1 |
| 5/1/2015 18:00:15 | 32.48 | 31.28 | 1,200 | 0.27 | 0.38 | 65.6 |
| 5/1/2015 18:00:15 | 32.81 | 31.61 | 1,200 | 0.27 | 0.38 | 65.6 |
| 5/1/2015 18:00:15 | 33.14 | 31.94 | 1,200 | 0.27 | 0.36 | 65.6 |
| 5/1/2015 18:00:16 | 33.46 | 32.26 | 1,205 | 0.27 | 0.37 | 65.9 |
| 5/1/2015 18:00:16 | 33.79 | 32.59 | 1,205 | 0.27 | 0.37 | 65.9 |
| 5/1/2015 18:00:16 | 34.12 | 32.92 | 1,211 | 0.27 | 0.37 | 66.2 |
| 5/1/2015 18:00:17 | 34.45 | 33.25 | 1,211 | 0.27 | 0.37 | 66.2 |
| 5/1/2015 18:00:17 | 34.78 | 33.58 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 18:00:17 | 35.11 | 33.91 | 1,211 | 0.27 | 0.36 | 66.2 |
| 5/1/2015 18:00:17 | 35.43 | 34.23 | 1,214 | 0.27 | 0.37 | 66.4 |
| 5/1/2015 18:00:18 | 35.76 | 34.56 | 1,214 | 0.27 | 0.37 | 66.4 |
| 5/1/2015 18:00:18 | 36.09 | 34.89 | 1,204 | 0.27 | 0.37 | 65.8 |
| 5/1/2015 18:00:19 | 36.42 | 35.22 | 1,208 | 0.28 | 0.37 | 66.1 |
| 5/1/2015 18:00:19 | 36.75 | 35.55 | 1,208 | 0.28 | 0.37 | 66.1 |
| 5/1/2015 18:00:19 | 37.07 | 35.87 | 1,205 | 0.27 | 0.36 | 65.9 |
| 5/1/2015 18:00:20 | 37.40 | 36.20 | 1,205 | 0.27 | 0.36 | 65.9 |
| 5/1/2015 18:00:20 | 37.73 | 36.53 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 18:00:20 | 38.06 | 36.86 | 1,205 | 0.28 | 0.37 | 65.9 |
| 5/1/2015 18:00:20 | 38.39 | 37.19 | 1,205 | 0.20 | 0.37 | 65.9 |
| 5/1/2015 18:00:21 | 38.71 | 37.51 | 1,214 | 0.28 | 0.36 | 66.4 |
| 5/1/2015 18:00:21 | 39.04 | 37.84 | 1,214 | 0.28 | 0.36 | 66.4 |
| 5/1/2015 18:00:21 | 39.37 | 38.17 | 1,220 | 0.28 | 0.37 | 66.7 |
| 5/1/2015 18:00:22 | 39.70 | 38.50 | 1,220 | 0.28 | 0.37 | 66.7 |
| 5/1/2015 18:00:22 | 40.03 | 38.83 | 1,220 | 0.27 | 0.36 | 66.7 |
| 5/1/2015 18:00:22 | 40.35 | 39.15 | 1,220 | 0.27 | 0.36 | 66.7 |
| 5/1/2015 18:00:22 | 40.68 | 39.48 | 1,216 | 0.10 | 0.37 | 66.5 |
| 5/1/2015 18:00:23 | 41.01 | 39.81 | 1,216 | 0.10 | 0.37 | 66.5 |
| 5/1/2015 18:00:23 | 41.34 | 40.14 | 1,229 | 0.27 | 0.36 | 67.2 |
| 5/1/2015 18:00:23 | 41.67 | 40.47 | 1,223 | 0.27 | 0.37 | 66.9 |
| 5/1/2015 18:00:24 | 41.99 | 40.79 | 1,223 | 0.27 | 0.37 | 66.9 |
| 5/1/2015 18:00:24 | 42.32 | 41.12 | 1,223 | 0.28 | 0.37 | 66.9 |
| 5/1/2015 18:00:24 | 42.65 | 41.45 | 1,223 | 0.28 | 0.37 | 66.9 |
| 5/1/2015 18:00:24 | 42.98 | 41.78 | 1,223 | 0.27 | 0.36 | 66.9 |
| 5/1/2015 18:00:25 | 43.31 | 42.11 | 1,223 | 0.27 | 0.36 | 66.9 |
| 5/1/2015 18:00:25 | 43.64 | 42.44 | 1,229 | 0.27 | 0.37 | 67.2 |
| 5/1/2015 18:00:25 | 43.96 | 42.76 | 1,226 | 0.28 | 0.37 | 67.0 |
| 5/1/2015 18:00:26 | 44.29 | 43.09 | 1,226 | 0.28 | 0.37 | 67.0 |
| 5/1/2015 18:00:26 | 44.62 | 43.42 | 1,226 | 0.28 | 0.38 | 67.0 |
| 5/1/2015 18:00:26 | 44.95 | 43.75 | 1,226 | 0.28 | 0.38 | 67.0 |
| 5/1/2015 18:00:26 | 45.28 | 44.08 | 1,226 | 0.28 | 0.37 | 67.0 |
| 5/1/2015 18:00:27 | 45.60 | 44.40 | 1,226 | 0.28 | 0.37 | 67.0 |
| 5/1/2015 18:00:27 | 45.93 | 44.73 | 1,229 | 0.28 | 0.37 | 67.2 |
| 5/1/2015 18:00:27 | 46.26 | 45.06 | 1,229 | 0.28 | 0.37 | 67.2 |
| 5/1/2015 18:00:27 | 46.59 | 45.39 | 1,226 | 0.28 | 0.37 | 67.0 |
| 5/1/2015 18:00:28 | 46.92 | 45.72 | 1,223 | 0.28 | 0.36 | 66.9 |
| 5/1/2015 18:00:29 | 47.24 | 46.04 | 1,223 | 0.28 | 0.36 | 66.9 |
| 5/1/2015 18:00:28 | 47.57 | 46.37 | 1,203 | 0.25 | 0.46 | 65.8 |
| 5/1/2015 18:00:37 | 47.90 | 46.70 | 112 | 3.25 | 0.45 | 6.1 |
| 5/1/2015 18:00:41 | 48.23 | 47.03 | 58 | 3.45 | 0.46 | 3.2 |
| 5/1/2015 18:00:44 | 48.56 | 47.36 | 126 | 2.81 | 0.47 | 6.9 |
| 5/1/2015 18:00:52 | 48.88 | 47.68 | 39 | 3.33 | 0.45 | 2.1 |
| 5/1/2015 18:00:57 | 49.21 | 48.01 | 64 | 3.23 | 0.46 | 3.5 |
| 5/1/2015 18:01:04 | 49.54 | 48.34 | 43 | 2.86 | 0.46 | 2.4 |
| 5/1/2015 18:01:13 | 49.87 | 48.67 | 35 | 3.35 | 0.46 | 1.9 |
| 5/1/2015 18:01:19 | 50.19 | 48.99 | 36 | 2.90 | 0.47 | 2.0 |

## L44 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 17:58:25

**End Date:**
5/1/2015 18:02:28

**Operator Note:**
'1.2 1.3 b Rock'

**Northing:**
359,619.04

**Easting:**
241,675.42

**Tide (feet):**
1.20



## Hole: L45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 18:00:05 | 31.50 | 30.30 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/1/2015 18:00:05 | 31.82 | 30.62 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:06 | 32.15 | 30.95 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:06 | 32.48 | 31.28 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 18:00:06 | 32.81 | 31.61 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:00:07 | 33.14 | 31.94 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 18:00:07 | 33.46 | 32.26 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:07 | 33.79 | 32.59 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:08 | 34.12 | 32.92 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:08 | 34.45 | 33.25 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:08 | 34.78 | 33.58 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:09 | 35.11 | 33.91 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:09 | 35.43 | 34.23 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 18:00:10 | 35.76 | 34.56 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 18:00:10 | 36.09 | 34.89 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:10 | 36.42 | 35.22 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 18:00:11 | 36.75 | 35.55 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 18:00:11 | 37.07 | 35.87 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:11 | 37.40 | 36.20 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:11 | 37.73 | 36.53 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:12 | 38.06 | 36.86 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:12 | 38.39 | 37.19 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 18:00:12 | 38.71 | 37.51 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:13 | 39.04 | 37.84 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:13 | 39.37 | 38.17 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 18:00:13 | 39.70 | 38.50 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:14 | 40.03 | 38.83 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:14 | 40.35 | 39.15 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 18:00:14 | 40.68 | 39.48 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:15 | 41.01 | 39.81 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:15 | 41.34 | 40.14 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 18:00:15 | 41.67 | 40.47 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:16 | 41.99 | 40.79 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:16 | 42.32 | 41.12 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:16 | 42.65 | 41.45 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 18:00:16 | 42.98 | 41.78 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 18:00:17 | 43.31 | 42.11 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:00:17 | 43.64 | 42.44 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:00:17 | 43.96 | 42.76 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 18:00:18 | 44.29 | 43.09 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 18:00:18 | 44.62 | 43.42 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 18:00:18 | 44.95 | 43.75 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 18:00:19 | 45.28 | 44.08 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:00:19 | 45.60 | 44.40 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 18:00:19 | 45.93 | 44.73 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 18:00:20 | 46.26 | 45.06 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 18:00:36 | 46.59 | 45.39 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 18:00:37 | 46.92 | 45.72 | 85 | 1.14 | 0.29 | 4.7 |
| 5/1/2015 18:00:38 | 47.24 | 46.04 | 232 | 1.14 | 0.29 | 12.7 |
| 5/1/2015 18:00:40 | 47.57 | 46.37 | 335 | 1.14 | 0.29 | 18.3 |
| 5/1/2015 18:00:41 | 47.90 | 46.70 | 310 | 1.14 | 0.29 | 17.0 |
| 5/1/2015 18:00:42 | 48.23 | 47.03 | 297 | 1.14 | 0.29 | 16.2 |
| 5/1/2015 18:00:43 | 48.56 | 47.36 | 279 | 1.14 | 0.29 | 15.3 |
| 5/1/2015 18:00:45 | 48.88 | 47.68 | 255 | 1.14 | 0.29 | 14.0 |
| 5/1/2015 18:01:15 | 49.21 | 48.01 | 68 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 18:01:23 | 49.54 | 48.34 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 18:01:30 | 49.87 | 48.67 | 54 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 18:01:42 | 50.20 | 49.00 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 18:01:57 | 50.53 | 49.33 | 25 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 18:02:00 | 50.64 | 49.44 | 23 | 1.14 | 0.29 | 1.3 |

## L45 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 17:58:48

**End Date:**
5/1/2015 18:03:17

**Operator Note:**
'1.2 1.3 c Auto Complete'

**Northing:**
359,661.91

**Easting:**
241,736.97

**Tide (feet):**
1.20



## Hole: L46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:24:24 | 32.48 | 30.08 | 936 | 1.09 | 0.14 | 51.2 |
| 5/1/2015 16:24:24 | 32.81 | 30.41 | 957 | 1.08 | 0.14 | 52.4 |
| 5/1/2015 16:24:25 | 33.14 | 30.74 | 943 | 1.10 | 0.14 | 51.6 |
| 5/1/2015 16:24:25 | 33.46 | 31.06 | 927 | 1.10 | 0.14 | 50.7 |
| 5/1/2015 16:24:26 | 33.79 | 31.39 | 927 | 1.10 | 0.14 | 50.7 |
| 5/1/2015 16:24:26 | 34.12 | 31.72 | 927 | 1.08 | 0.14 | 50.7 |
| 5/1/2015 16:24:26 | 34.45 | 32.05 | 932 | 1.09 | 0.14 | 51.0 |
| 5/1/2015 16:24:27 | 34.78 | 32.38 | 936 | 1.07 | 0.14 | 51.2 |
| 5/1/2015 16:24:27 | 35.11 | 32.71 | 936 | 1.07 | 0.14 | 51.2 |
| 5/1/2015 16:24:28 | 35.43 | 33.03 | 931 | 1.07 | 0.16 | 50.9 |
| 5/1/2015 16:24:28 | 35.76 | 33.36 | 910 | 1.09 | 0.14 | 49.8 |
| 5/1/2015 16:24:29 | 36.09 | 33.69 | 910 | 1.10 | 0.14 | 49.8 |
| 5/1/2015 16:24:29 | 36.42 | 34.02 | 910 | 1.10 | 0.14 | 49.8 |
| 5/1/2015 16:24:29 | 36.75 | 34.35 | 936 | 1.07 | 0.14 | 51.2 |
| 5/1/2015 16:24:30 | 37.07 | 34.67 | 929 | 1.07 | 0.14 | 50.8 |
| 5/1/2015 16:24:30 | 37.40 | 35.00 | 929 | 1.07 | 0.14 | 50.8 |
| 5/1/2015 16:24:30 | 37.73 | 35.33 | 935 | 1.09 | 0.14 | 51.1 |
| 5/1/2015 16:24:31 | 38.06 | 35.66 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:31 | 38.39 | 35.99 | 950 | 1.09 | 0.14 | 52.0 |
| 5/1/2015 16:24:32 | 38.71 | 36.31 | 950 | 1.09 | 0.14 | 52.0 |
| 5/1/2015 16:24:32 | 39.04 | 36.64 | 934 | 1.11 | 0.14 | 51.1 |
| 5/1/2015 16:24:32 | 39.37 | 36.97 | 937 | 1.07 | 0.14 | 51.2 |
| 5/1/2015 16:24:33 | 39.70 | 37.30 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:33 | 40.03 | 37.63 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:33 | 40.35 | 37.95 | 918 | 1.10 | 0.14 | 50.2 |
| 5/1/2015 16:24:34 | 40.68 | 38.28 | 918 | 1.11 | 0.14 | 50.2 |
| 5/1/2015 16:24:34 | 41.01 | 38.61 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:35 | 41.34 | 38.94 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:35 | 41.67 | 39.27 | 918 | 1.09 | 0.14 | 50.2 |
| 5/1/2015 16:24:35 | 41.99 | 39.59 | 930 | 1.10 | 0.14 | 50.9 |
| 5/1/2015 16:24:36 | 42.32 | 39.92 | 911 | 1.05 | 0.14 | 49.8 |
| 5/1/2015 16:24:36 | 42.65 | 40.25 | 911 | 1.05 | 0.14 | 49.8 |
| 5/1/2015 16:24:36 | 42.98 | 40.58 | 911 | 1.10 | 0.14 | 49.8 |
| 5/1/2015 16:24:37 | 43.31 | 40.91 | 930 | 1.07 | 0.14 | 50.9 |
| 5/1/2015 16:24:38 | 43.64 | 41.24 | 944 | 1.07 | 0.14 | 51.6 |
| 5/1/2015 16:24:38 | 43.96 | 41.56 | 944 | 1.07 | 0.14 | 51.6 |
| 5/1/2015 16:24:38 | 44.29 | 41.89 | 929 | 1.09 | 0.14 | 50.8 |
| 5/1/2015 16:24:39 | 44.62 | 42.22 | 924 | 1.09 | 0.14 | 50.5 |
| 5/1/2015 16:24:39 | 44.95 | 42.55 | 931 | 1.09 | 0.14 | 50.9 |
| 5/1/2015 16:24:40 | 45.28 | 42.88 | 931 | 1.09 | 0.14 | 50.9 |
| 5/1/2015 16:24:40 | 45.60 | 43.20 | 925 | 1.19 | 0.14 | 50.6 |
| 5/1/2015 16:24:55 | 45.93 | 43.53 | 0 | 1.30 | 0.88 | 0.0 |
| 5/1/2015 16:24:55 | 46.26 | 43.86 | 0 | 1.43 | 1.01 | 0.0 |
| 5/1/2015 16:24:56 | 46.59 | 44.19 | 85 | 1.83 | 1.06 | 4.7 |
| 5/1/2015 16:25:00 | 46.92 | 44.52 | 163 | 1.11 | 1.22 | 8.9 |
| 5/1/2015 16:25:04 | 47.24 | 44.84 | 84 | 1.09 | 1.01 | 4.6 |
| 5/1/2015 16:25:09 | 47.57 | 45.17 | 71 | 1.14 | 1.11 | 3.9 |
| 5/1/2015 16:25:13 | 47.90 | 45.50 | 88 | 1.09 | 1.17 | 4.8 |
| 5/1/2015 16:25:16 | 48.23 | 45.83 | 113 | 1.13 | 1.06 | 6.2 |
| 5/1/2015 16:25:19 | 48.56 | 46.16 | 129 | 1.05 | 1.19 | 7.1 |
| 5/1/2015 16:25:23 | 48.88 | 46.48 | 93 | 1.09 | 1.17 | 5.1 |
| 5/1/2015 16:25:26 | 49.21 | 46.81 | 90 | 1.00 | 1.05 | 4.9 |
| 5/1/2015 16:25:30 | 49.54 | 47.14 | 111 | 1.07 | 1.12 | 6.1 |
| 5/1/2015 16:25:34 | 49.87 | 47.47 | 58 | 1.07 | 0.94 | 3.2 |
| 5/1/2015 16:25:41 | 50.20 | 47.80 | 60 | 1.09 | 1.21 | 3.3 |
| 5/1/2015 16:25:46 | 50.53 | 48.13 | 67 | 1.08 | 1.11 | 3.6 |
| 5/1/2015 16:25:52 | 50.85 | 48.45 | 61 | 1.08 | 1.07 | 3.3 |
| 5/1/2015 16:25:55 | 51.07 | 48.67 | 60 | 0.64 | 1.20 | 3.3 |

## L46 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:23:11

**End Date:**
5/1/2015 16:27:29

**Operator Note:**
'2.4 2.6 a Auto Complete'

**Northing:**
359,687.56

**Easting:**
241,795.16

**Tide (feet):**
2.40



## Hole: L47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:24:26 | 32.81 | 30.31 | 1,197 | 0.29 | 0.38 | 65.4 |
| 5/1/2015 16:24:26 | 33.14 | 30.64 | 1,197 | 0.29 | 0.38 | 65.4 |
| 5/1/2015 16:24:26 | 33.46 | 30.96 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 16:24:27 | 33.79 | 31.29 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 16:24:27 | 34.12 | 31.62 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 16:24:27 | 34.45 | 31.95 | 1,213 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:24:28 | 34.78 | 32.28 | 1,213 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:24:28 | 35.11 | 32.61 | 1,203 | 0.28 | 0.37 | 65.8 |
| 5/1/2015 16:24:28 | 35.43 | 32.93 | 1,203 | 0.28 | 0.37 | 65.8 |
| 5/1/2015 16:24:28 | 35.76 | 33.26 | 1,213 | 0.29 | 0.36 | 66.3 |
| 5/1/2015 16:24:29 | 36.09 | 33.59 | 1,213 | 0.29 | 0.36 | 66.3 |
| 5/1/2015 16:24:29 | 36.42 | 33.92 | 1,175 | 0.29 | 0.38 | 64.2 |
| 5/1/2015 16:24:29 | 36.75 | 34.25 | 1,175 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 16:24:30 | 37.07 | 34.57 | 1,175 | 0.29 | 0.37 | 64.2 |
| 5/1/2015 16:24:30 | 37.40 | 34.90 | 1,196 | 0.29 | 0.38 | 65.4 |
| 5/1/2015 16:24:31 | 37.73 | 35.23 | 1,196 | 0.29 | 0.38 | 65.4 |
| 5/1/2015 16:24:31 | 38.06 | 35.56 | 1,185 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 16:24:31 | 38.39 | 35.89 | 1,185 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 16:24:31 | 38.71 | 36.21 | 1,185 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 16:24:32 | 39.04 | 36.54 | 1,181 | 0.29 | 0.37 | 64.6 |
| 5/1/2015 16:24:32 | 39.37 | 36.87 | 1,181 | 0.29 | 0.37 | 64.6 |
| 5/1/2015 16:24:32 | 39.70 | 37.20 | 1,218 | 0.28 | 0.37 | 66.6 |
| 5/1/2015 16:24:33 | 40.03 | 37.53 | 1,218 | 0.28 | 0.37 | 66.6 |
| 5/1/2015 16:24:33 | 40.35 | 37.85 | 1,205 | 0.30 | 0.37 | 65.9 |
| 5/1/2015 16:24:33 | 40.68 | 38.18 | 1,205 | 0.30 | 0.37 | 65.9 |
| 5/1/2015 16:24:33 | 41.01 | 38.51 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:24:34 | 41.34 | 38.84 | 1,211 | 0.29 | 0.39 | 66.2 |
| 5/1/2015 16:24:34 | 41.67 | 39.17 | 1,211 | 0.29 | 0.39 | 66.2 |
| 5/1/2015 16:24:34 | 41.99 | 39.49 | 1,208 | 0.29 | 0.38 | 66.1 |
| 5/1/2015 16:24:35 | 42.32 | 39.82 | 1,208 | 0.29 | 0.38 | 66.1 |
| 5/1/2015 16:24:35 | 42.65 | 40.15 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:24:35 | 42.98 | 40.48 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:24:35 | 43.31 | 40.81 | 1,198 | 0.29 | 0.36 | 65.5 |
| 5/1/2015 16:24:36 | 43.64 | 41.14 | 1,211 | 0.29 | 0.36 | 66.2 |
| 5/1/2015 16:24:36 | 43.96 | 41.46 | 1,211 | 0.29 | 0.36 | 66.2 |
| 5/1/2015 16:24:36 | 44.29 | 41.79 | 1,206 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:24:37 | 44.62 | 42.12 | 1,206 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:24:37 | 44.95 | 42.45 | 1,210 | 0.29 | 0.36 | 66.2 |
| 5/1/2015 16:24:37 | 45.28 | 42.78 | 1,210 | 0.29 | 0.36 | 66.2 |
| 5/1/2015 16:24:37 | 45.60 | 43.10 | 1,205 | 0.29 | 0.38 | 65.9 |
| 5/1/2015 16:24:38 | 45.93 | 43.43 | 1,208 | 0.29 | 0.37 | 66.1 |
| 5/1/2015 16:24:38 | 46.26 | 43.76 | 1,208 | 0.29 | 0.37 | 66.1 |
| 5/1/2015 16:24:38 | 46.59 | 44.09 | 1,202 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 16:24:39 | 46.92 | 44.42 | 1,202 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 16:24:39 | 47.24 | 44.74 | 1,202 | 0.29 | 0.36 | 65.8 |
| 5/1/2015 16:24:39 | 47.57 | 45.07 | 1,202 | 0.29 | 0.36 | 65.8 |
| 5/1/2015 16:24:39 | 47.90 | 45.40 | 1,201 | 0.29 | 0.36 | 65.7 |
| 5/1/2015 16:24:40 | 48.23 | 45.73 | 1,201 | 0.29 | 0.36 | 65.7 |
| 5/1/2015 16:24:40 | 48.56 | 46.06 | 1,201 | 0.29 | 0.36 | 65.7 |
| 5/1/2015 16:24:40 | 48.88 | 46.38 | 1,208 | 0.28 | 0.40 | 66.1 |
| 5/1/2015 16:24:51 | 49.21 | 46.71 | 0 | 2.08 | 0.38 | 0.0 |
| 5/1/2015 16:24:52 | 49.54 | 47.04 | 138 | 3.45 | 0.41 | 7.6 |
| 5/1/2015 16:24:52 | 49.87 | 47.37 | 138 | 3.45 | 0.41 | 7.6 |
| 5/1/2015 16:24:53 | 50.20 | 47.70 | 369 | 2.17 | 0.42 | 20.2 |
| 5/1/2015 16:24:53 | 50.53 | 48.03 | 369 | 2.21 | 0.41 | 20.2 |
| 5/1/2015 16:24:56 | 50.85 | 48.35 | 180 | 3.45 | 0.43 | 9.8 |
| 5/1/2015 16:24:57 | 51.18 | 48.68 | 142 | 3.56 | 0.41 | 7.7 |
| 5/1/2015 16:24:57 | 51.51 | 49.01 | 216 | 2.13 | 0.40 | 11.8 |
| 5/1/2015 16:24:58 | 51.84 | 49.34 | 431 | 2.87 | 0.43 | 23.6 |
| 5/1/2015 16:25:06 | 52.17 | 49.67 | 20 | 2.81 | 0.45 | 1.1 |
| 5/1/2015 16:25:12 | 52.49 | 49.99 | 79 | 3.22 | 0.45 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:25:18 | 52.82 | 50.32 | 79 | 3.60 | 0.46 | 4.3 |
| 5/1/2015 | 16:25:23 | 53.15 | 50.65 | 84 | 3.62 | 0.46 | 4.6 |
| 5/1/2015 | 16:25:27 | 53.48 | 50.98 | 98 | 3.33 | 0.46 | 5.4 |
| 5/1/2015 | 16:25:30 | 53.81 | 51.31 | 106 | 3.34 | 0.45 | 5.8 |
| 5/1/2015 | 16:25:34 | 54.13 | 51.63 | 81 | 3.22 | 0.46 | 4.4 |
| 5/1/2015 | 16:25:39 | 54.46 | 51.96 | 78 | 3.62 | 0.46 | 4.3 |
| 5/1/2015 | 16:25:42 | 54.79 | 52.29 | 101 | 4.02 | 0.46 | 5.5 |
| 5/1/2015 | 16:25:46 | 55.12 | 52.62 | 104 | 3.42 | 0.46 | 5.7 |
| 5/1/2015 | 16:25:55 | 55.45 | 52.95 | 32 | 2.66 | 0.42 | 1.7 |
| 5/1/2015 | 16:26:00 | 55.77 | 53.27 | 93 | 3.17 | 0.46 | 5.1 |
| 5/1/2015 | 16:26:05 | 56.10 | 53.60 | 69 | 3.31 | 0.46 | 3.7 |
| 5/1/2015 | 16:26:13 | 56.43 | 53.93 | 69 | 3.42 | 0.46 | 3.8 |
| 5/1/2015 | 16:26:50 | 56.76 | 54.26 | 95 | 3.15 | 0.46 | 5.2 |
| 5/1/2015 | 16:26:53 | 57.09 | 54.59 | 92 | 4.02 | 0.45 | 5.0 |
| 5/1/2015 | 16:26:57 | 57.41 | 54.91 | 103 | 3.63 | 0.46 | 5.6 |
| 5/1/2015 | 16:27:00 | 57.66 | 55.16 | 90 | 3.35 | 0.46 | 4.9 |

## L47 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:15:23

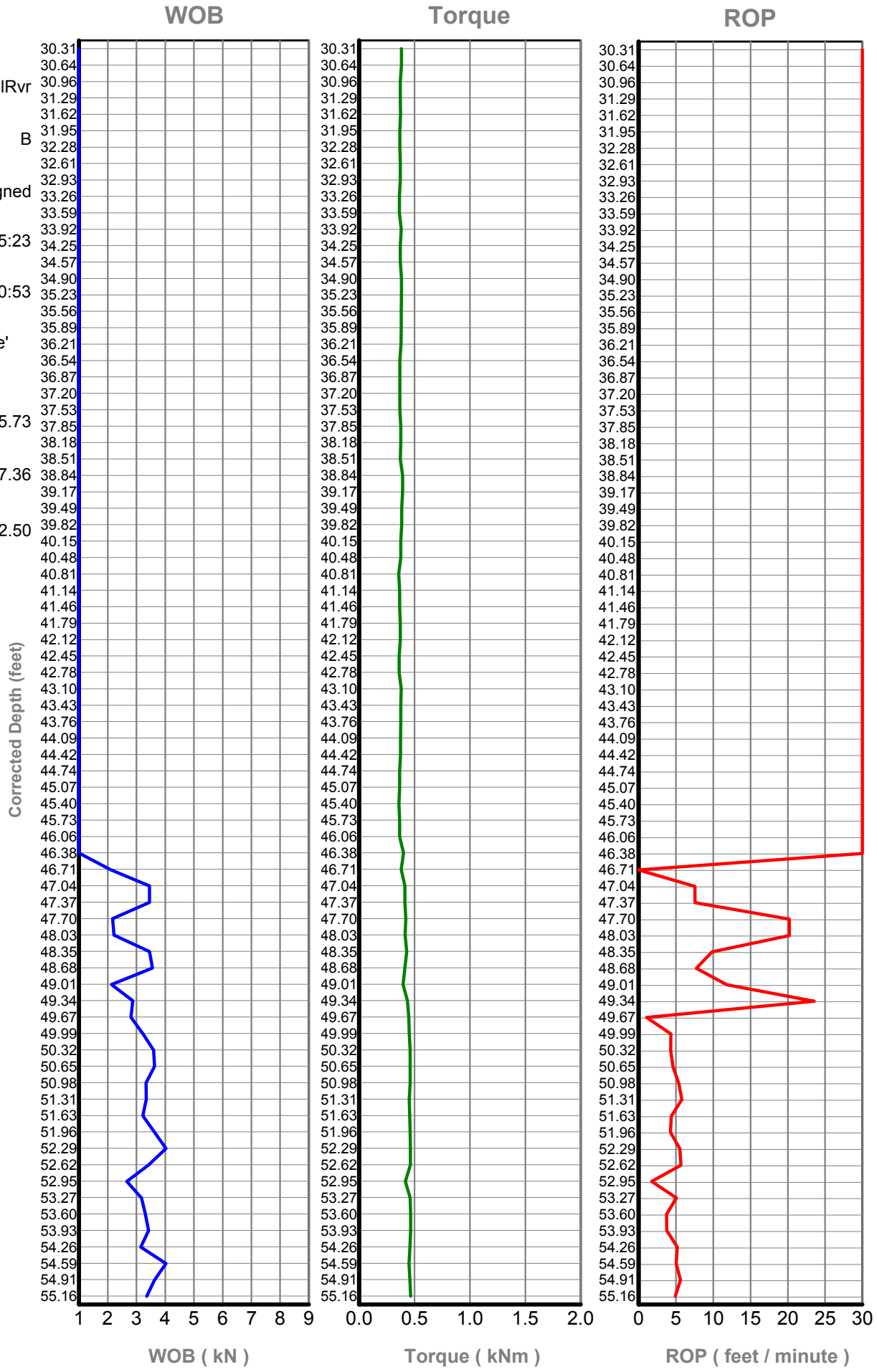
**End Date:**
5/1/2015 16:30:53

**Operator Note:**
'2.5 2.6 b Auto Complete'

**Northing:**
359,725.73

**Easting:**
241,857.36

**Tide (feet):**
2.50



## Hole: L48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:23:55 | 32.48 | 30.08 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 16:23:55 | 32.81 | 30.41 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 16:23:55 | 33.14 | 30.74 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 16:23:56 | 33.46 | 31.06 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 16:23:56 | 33.79 | 31.39 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 16:23:56 | 34.12 | 31.72 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 16:23:57 | 34.45 | 32.05 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 16:23:57 | 34.78 | 32.38 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 16:23:58 | 35.11 | 32.71 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 16:23:58 | 35.43 | 33.03 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 16:23:58 | 35.76 | 33.36 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 16:23:59 | 36.09 | 33.69 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:23:59 | 36.42 | 34.02 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:23:59 | 36.75 | 34.35 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 16:24:00 | 37.07 | 34.67 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 16:24:00 | 37.40 | 35.00 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/1/2015 16:24:00 | 37.73 | 35.33 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:01 | 38.06 | 35.66 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:01 | 38.39 | 35.99 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:01 | 38.71 | 36.31 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:02 | 39.04 | 36.64 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:02 | 39.37 | 36.97 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 16:24:02 | 39.70 | 37.30 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 16:24:02 | 40.03 | 37.63 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:24:03 | 40.35 | 37.95 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 16:24:03 | 40.68 | 38.28 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 16:24:03 | 41.01 | 38.61 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 16:24:04 | 41.34 | 38.94 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 16:24:04 | 41.67 | 39.27 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 16:24:04 | 41.99 | 39.59 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:24:05 | 42.32 | 39.92 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:24:05 | 42.65 | 40.25 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:24:05 | 42.98 | 40.58 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:06 | 43.31 | 40.91 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:24:06 | 43.64 | 41.24 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 16:24:06 | 43.96 | 41.56 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 16:24:07 | 44.29 | 41.89 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 16:24:07 | 44.62 | 42.22 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:24:08 | 44.95 | 42.55 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:24:07 | 45.28 | 42.88 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:08 | 45.60 | 43.20 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:09 | 45.93 | 43.53 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:09 | 46.26 | 43.86 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:09 | 46.59 | 44.19 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:10 | 46.92 | 44.52 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:24:10 | 47.24 | 44.84 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 16:24:10 | 47.57 | 45.17 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 16:24:10 | 47.90 | 45.50 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 16:24:11 | 48.23 | 45.83 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 16:24:11 | 48.56 | 46.16 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 16:24:11 | 48.88 | 46.48 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 16:24:24 | 49.21 | 46.81 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 16:24:25 | 49.54 | 47.14 | 126 | 1.14 | 0.29 | 6.9 |
| 5/1/2015 16:24:27 | 49.87 | 47.47 | 244 | 1.14 | 0.29 | 13.4 |
| 5/1/2015 16:24:31 | 50.20 | 47.80 | 87 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 16:24:56 | 50.53 | 48.13 | 30 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 16:25:47 | 50.85 | 48.45 | 39 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 16:25:51 | 51.18 | 48.78 | 80 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 16:25:56 | 51.51 | 49.11 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 16:25:59 | 51.84 | 49.44 | 111 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 16:26:03 | 52.17 | 49.77 | 96 | 1.14 | 0.29 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:26:07 | 52.49 | 50.09 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 | 16:26:10 | 52.82 | 50.42 | 111 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 | 16:26:13 | 53.15 | 50.75 | 128 | 1.14 | 0.29 | 7.0 |
| 5/1/2015 | 16:26:15 | 53.48 | 51.08 | 178 | 1.14 | 0.29 | 9.7 |
| 5/1/2015 | 16:26:22 | 53.81 | 51.41 | 104 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 | 16:26:25 | 54.13 | 51.73 | 208 | 1.14 | 0.29 | 11.4 |
| 5/1/2015 | 16:26:43 | 54.46 | 52.06 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 16:26:47 | 54.79 | 52.39 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 16:26:54 | 55.12 | 52.72 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 16:27:00 | 55.45 | 53.05 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 16:27:04 | 55.77 | 53.37 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 | 16:27:05 | 55.85 | 53.45 | 99 | 1.14 | 0.29 | 5.4 |

## L48 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:22:58

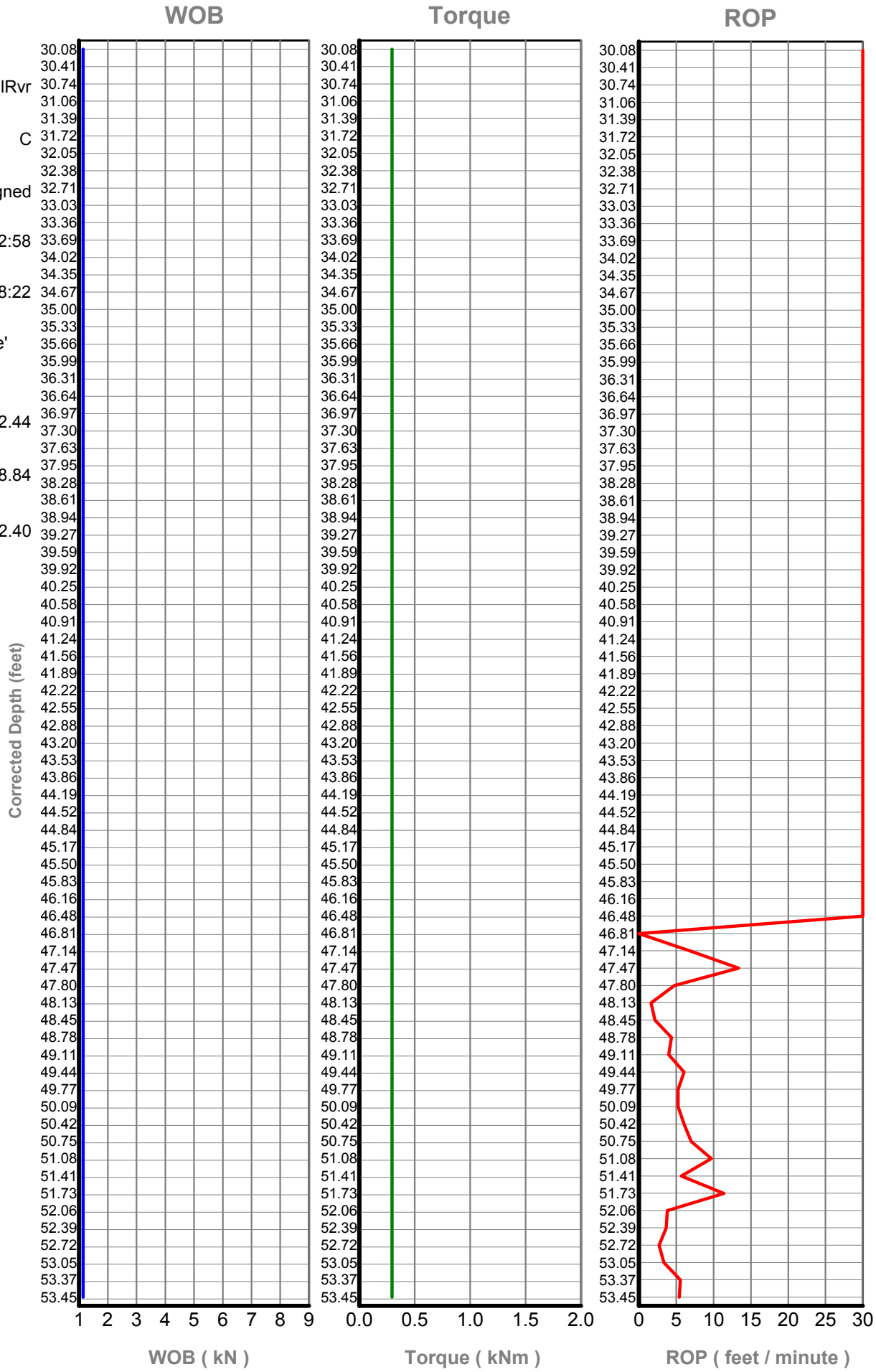
**End Date:**
5/1/2015 16:28:22

**Operator Note:**
'2.4 2.6 c Auto Complete'

**Northing:**
359,772.44

**Easting:**
241,918.84

**Tide (feet):**
2.40



## Hole: L49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:14:37 | 34.78 | 30.28 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 14:14:37 | 35.11 | 30.61 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 14:14:37 | 35.43 | 30.93 | 896 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 14:14:38 | 35.76 | 31.26 | 926 | 1.15 | 0.16 | 50.7 |
| 5/1/2015 14:14:38 | 36.09 | 31.59 | 908 | 1.18 | 0.16 | 49.6 |
| 5/1/2015 14:14:39 | 36.42 | 31.92 | 908 | 1.18 | 0.16 | 49.6 |
| 5/1/2015 14:14:39 | 36.75 | 32.25 | 908 | 1.17 | 0.16 | 49.6 |
| 5/1/2015 14:14:40 | 37.07 | 32.57 | 908 | 1.15 | 0.16 | 49.6 |
| 5/1/2015 14:14:40 | 37.40 | 32.90 | 916 | 1.15 | 0.16 | 50.1 |
| 5/1/2015 14:14:41 | 37.73 | 33.23 | 916 | 1.15 | 0.16 | 50.1 |
| 5/1/2015 14:14:41 | 38.06 | 33.56 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 14:14:41 | 38.39 | 33.89 | 908 | 1.17 | 0.15 | 49.6 |
| 5/1/2015 14:14:42 | 38.71 | 34.21 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 14:14:42 | 39.04 | 34.54 | 905 | 1.16 | 0.16 | 49.5 |
| 5/1/2015 14:14:42 | 39.37 | 34.87 | 914 | 1.18 | 0.16 | 50.0 |
| 5/1/2015 14:14:43 | 39.70 | 35.20 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 14:14:43 | 40.03 | 35.53 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 14:14:44 | 40.35 | 35.85 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 14:14:44 | 40.68 | 36.18 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 14:14:44 | 41.01 | 36.51 | 911 | 1.17 | 0.16 | 49.8 |
| 5/1/2015 14:14:45 | 41.34 | 36.84 | 905 | 1.18 | 0.16 | 49.5 |
| 5/1/2015 14:14:45 | 41.67 | 37.17 | 905 | 1.18 | 0.16 | 49.5 |
| 5/1/2015 14:14:45 | 41.99 | 37.49 | 907 | 1.15 | 0.16 | 49.6 |
| 5/1/2015 14:14:46 | 42.32 | 37.82 | 890 | 1.17 | 0.16 | 48.6 |
| 5/1/2015 14:14:46 | 42.65 | 38.15 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 14:14:47 | 42.98 | 38.48 | 900 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 14:14:47 | 43.31 | 38.81 | 900 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 14:14:47 | 43.64 | 39.14 | 903 | 1.17 | 0.16 | 49.4 |
| 5/1/2015 14:14:48 | 43.96 | 39.46 | 898 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 14:14:48 | 44.29 | 39.79 | 916 | 1.17 | 0.16 | 50.1 |
| 5/1/2015 14:14:49 | 44.62 | 40.12 | 916 | 1.17 | 0.16 | 50.1 |
| 5/1/2015 14:14:49 | 44.95 | 40.45 | 907 | 1.18 | 0.15 | 49.6 |
| 5/1/2015 14:14:49 | 45.28 | 40.78 | 902 | 1.17 | 0.16 | 49.3 |
| 5/1/2015 14:14:50 | 45.60 | 41.10 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 14:14:51 | 45.93 | 41.43 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 14:14:51 | 46.26 | 41.76 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 14:14:51 | 46.59 | 42.09 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 14:14:52 | 46.92 | 42.42 | 899 | 1.18 | 0.16 | 49.2 |
| 5/1/2015 14:14:52 | 47.24 | 42.74 | 899 | 1.18 | 0.16 | 49.2 |
| 5/1/2015 14:14:52 | 47.57 | 43.07 | 899 | 1.18 | 0.16 | 49.2 |
| 5/1/2015 14:14:53 | 47.90 | 43.40 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 14:14:53 | 48.23 | 43.73 | 896 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 14:14:54 | 48.56 | 44.06 | 896 | 1.15 | 0.16 | 49.0 |
| 5/1/2015 14:14:54 | 48.88 | 44.38 | 896 | 1.15 | 0.16 | 49.0 |
| 5/1/2015 14:14:54 | 49.21 | 44.71 | 896 | 1.17 | 0.16 | 49.0 |
| 5/1/2015 14:14:55 | 49.54 | 45.04 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 14:14:55 | 49.87 | 45.37 | 899 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 14:14:56 | 50.20 | 45.70 | 899 | 1.16 | 0.16 | 49.2 |
| 5/1/2015 14:14:56 | 50.53 | 46.03 | 899 | 1.17 | 0.16 | 49.2 |
| 5/1/2015 14:14:56 | 50.85 | 46.35 | 894 | 1.18 | 0.16 | 48.9 |
| 5/1/2015 14:14:57 | 51.18 | 46.68 | 867 | 1.58 | 0.16 | 47.4 |
| 5/1/2015 14:15:09 | 51.51 | 47.01 | 43 | 0.75 | 0.78 | 2.3 |
| 5/1/2015 14:15:11 | 51.84 | 47.34 | 171 | 1.19 | 0.82 | 9.3 |
| 5/1/2015 14:15:12 | 52.17 | 47.67 | 354 | 1.19 | 0.93 | 19.3 |
| 5/1/2015 14:15:21 | 52.49 | 47.99 | 47 | 1.15 | 1.20 | 2.6 |
| 5/1/2015 14:15:27 | 52.82 | 48.32 | 64 | 1.11 | 1.13 | 3.5 |
| 5/1/2015 14:15:32 | 53.15 | 48.65 | 66 | 1.07 | 1.18 | 3.6 |
| 5/1/2015 14:15:36 | 53.48 | 48.98 | 83 | 1.12 | 1.15 | 4.6 |
| 5/1/2015 14:15:40 | 53.81 | 49.31 | 108 | 1.12 | 1.15 | 5.9 |
| 5/1/2015 14:15:43 | 54.13 | 49.63 | 137 | 1.15 | 1.13 | 7.5 |
| 5/1/2015 14:15:51 | 54.46 | 49.96 | 32 | 1.13 | 0.91 | 1.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:16:01 | 54.79 | 50.29 | 35 | 1.08 | 0.98 | 1.9 |
| 5/1/2015 | 14:16:11 | 55.12 | 50.62 | 38 | 1.13 | 1.14 | 2.1 |
| 5/1/2015 | 14:16:20 | 55.45 | 50.95 | 40 | 1.09 | 1.09 | 2.2 |
| 5/1/2015 | 14:16:26 | 55.70 | 51.20 | 39 | 1.16 | 1.10 | 2.2 |

## L49 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:13:10

**End Date:**
5/1/2015 14:18:05

**Operator Note:**
'4.5 4.7 a Auto Complete'

**Northing:**
359,810.14

**Easting:**
241,983.61

**Tide (feet):**
4.50



## Hole: L5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:29:33 | 33.79 | 30.09 | 1,048 | 0.33 | 0.37 | 57.3 |
| 5/1/2015 8:29:33 | 34.12 | 30.42 | 1,051 | 0.32 | 0.38 | 57.5 |
| 5/1/2015 8:29:33 | 34.45 | 30.75 | 1,057 | 0.33 | 0.38 | 57.8 |
| 5/1/2015 8:29:34 | 34.78 | 31.08 | 1,057 | 0.33 | 0.38 | 57.8 |
| 5/1/2015 8:29:34 | 35.11 | 31.41 | 1,060 | 0.33 | 0.38 | 58.0 |
| 5/1/2015 8:29:34 | 35.43 | 31.73 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:35 | 35.76 | 32.06 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:35 | 36.09 | 32.39 | 1,061 | 0.33 | 0.38 | 58.0 |
| 5/1/2015 8:29:35 | 36.42 | 32.72 | 1,058 | 0.33 | 0.40 | 57.9 |
| 5/1/2015 8:29:36 | 36.75 | 33.05 | 1,058 | 0.33 | 0.40 | 57.9 |
| 5/1/2015 8:29:36 | 37.07 | 33.37 | 1,055 | 0.29 | 0.37 | 57.7 |
| 5/1/2015 8:29:44 | 37.40 | 33.70 | 57 | 0.32 | 0.38 | 3.1 |
| 5/1/2015 8:29:45 | 37.73 | 34.03 | 57 | 0.32 | 0.38 | 3.1 |
| 5/1/2015 8:29:45 | 38.06 | 34.36 | 262 | 0.33 | 0.38 | 14.4 |
| 5/1/2015 8:29:45 | 38.39 | 34.69 | 262 | 0.33 | 0.38 | 14.4 |
| 5/1/2015 8:29:45 | 38.71 | 35.01 | 493 | 0.33 | 0.38 | 27.0 |
| 5/1/2015 8:29:46 | 39.04 | 35.34 | 705 | 0.33 | 0.38 | 38.5 |
| 5/1/2015 8:29:46 | 39.37 | 35.67 | 705 | 0.33 | 0.38 | 38.5 |
| 5/1/2015 8:29:46 | 39.70 | 36.00 | 920 | 0.34 | 0.38 | 50.3 |
| 5/1/2015 8:29:47 | 40.03 | 36.33 | 1,074 | 0.33 | 0.38 | 58.7 |
| 5/1/2015 8:29:48 | 40.35 | 36.65 | 1,074 | 0.33 | 0.38 | 58.7 |
| 5/1/2015 8:29:47 | 40.68 | 36.98 | 1,083 | 0.34 | 0.38 | 59.2 |
| 5/1/2015 8:29:48 | 41.01 | 37.31 | 1,069 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:49 | 41.34 | 37.64 | 1,069 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:49 | 41.67 | 37.97 | 1,067 | 0.33 | 0.38 | 58.3 |
| 5/1/2015 8:29:49 | 41.99 | 38.29 | 1,063 | 0.33 | 0.38 | 58.1 |
| 5/1/2015 8:29:50 | 42.32 | 38.62 | 1,063 | 0.33 | 0.38 | 58.1 |
| 5/1/2015 8:29:50 | 42.65 | 38.95 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:50 | 42.98 | 39.28 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:50 | 43.31 | 39.61 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:51 | 43.64 | 39.94 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:51 | 43.96 | 40.26 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:51 | 44.29 | 40.59 | 1,072 | 0.33 | 0.37 | 58.6 |
| 5/1/2015 8:29:52 | 44.62 | 40.92 | 1,082 | 0.33 | 0.38 | 59.2 |
| 5/1/2015 8:29:52 | 44.95 | 41.25 | 1,082 | 0.33 | 0.38 | 59.2 |
| 5/1/2015 8:29:52 | 45.28 | 41.58 | 1,073 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:53 | 45.60 | 41.90 | 1,076 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:53 | 45.93 | 42.23 | 1,076 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:53 | 46.26 | 42.56 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:54 | 46.59 | 42.89 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:54 | 46.92 | 43.22 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/1/2015 8:29:54 | 47.24 | 43.54 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:55 | 47.57 | 43.87 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:55 | 47.90 | 44.20 | 1,070 | 0.33 | 0.38 | 58.5 |
| 5/1/2015 8:29:55 | 48.23 | 44.53 | 1,069 | 0.33 | 0.38 | 58.4 |
| 5/1/2015 8:29:56 | 48.56 | 44.86 | 1,069 | 0.33 | 0.38 | 58.4 |
| 5/1/2015 8:29:56 | 48.88 | 45.18 | 1,078 | 0.33 | 0.38 | 59.0 |
| 5/1/2015 8:29:56 | 49.21 | 45.51 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:57 | 49.54 | 45.84 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:57 | 49.87 | 46.17 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:57 | 50.20 | 46.50 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:58 | 50.53 | 46.83 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:58 | 50.85 | 47.15 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:59 | 51.18 | 47.48 | 1,075 | 0.33 | 0.38 | 58.8 |
| 5/1/2015 8:29:59 | 51.51 | 47.81 | 1,067 | 0.32 | 0.38 | 58.3 |
| 5/1/2015 8:29:59 | 51.84 | 48.14 | 1,055 | 0.33 | 0.38 | 57.7 |
| 5/1/2015 8:30:00 | 52.17 | 48.47 | 1,055 | 0.33 | 0.38 | 57.7 |
| 5/1/2015 8:30:00 | 52.49 | 48.79 | 1,034 | 0.33 | 0.39 | 56.6 |
| 5/1/2015 8:30:00 | 52.82 | 49.12 | 1,023 | 0.33 | 0.39 | 55.9 |
| 5/1/2015 8:30:01 | 53.15 | 49.45 | 986 | 0.32 | 0.40 | 53.9 |
| 5/1/2015 8:30:01 | 53.48 | 49.78 | 936 | 0.32 | 0.42 | 51.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:30:02 | 53.81 | 50.11 | 862 | 0.32 | 0.45 | 47.1 |
| 5/1/2015 | 8:30:14 | 54.13 | 50.43 | 81 | 4.14 | 0.45 | 4.4 |
| 5/1/2015 | 8:30:16 | 54.46 | 50.76 | 177 | 4.26 | 0.47 | 9.7 |
| 5/1/2015 | 8:30:19 | 54.79 | 51.09 | 125 | 3.41 | 0.46 | 6.8 |
| 5/1/2015 | 8:30:27 | 55.12 | 51.42 | 20 | 3.19 | 0.43 | 1.1 |
| 5/1/2015 | 8:30:30 | 55.45 | 51.75 | 89 | 3.28 | 0.44 | 4.9 |
| 5/1/2015 | 8:30:32 | 55.77 | 52.07 | 209 | 4.17 | 0.46 | 11.4 |
| 5/1/2015 | 8:30:45 | 56.10 | 52.40 | 73 | 3.26 | 0.46 | 4.0 |
| 5/1/2015 | 8:30:48 | 56.43 | 52.73 | 109 | 4.07 | 0.45 | 6.0 |
| 5/1/2015 | 8:30:59 | 56.76 | 53.06 | 59 | 4.66 | 0.46 | 3.2 |
| 5/1/2015 | 8:31:06 | 57.09 | 53.39 | 46 | 5.51 | 0.47 | 2.5 |
| 5/1/2015 | 8:32:27 | 57.41 | 53.71 | 20 | 3.65 | 0.46 | 1.1 |
| 5/1/2015 | 8:32:36 | 57.74 | 54.04 | 55 | 3.66 | 0.47 | 3.0 |
| 5/1/2015 | 8:32:44 | 58.07 | 54.37 | 45 | 3.40 | 0.46 | 2.5 |
| 5/1/2015 | 8:32:48 | 58.38 | 54.68 | 72 | 3.14 | 0.47 | 4.0 |

## L5 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:27:41

**End Date:**
5/1/2015 8:33:49

**Operator Note:**
'3.7 3.4 b Auto Complete'

**Northing:**
360,159.70

**Easting:**
242,126.10

**Tide (feet):**
3.70



## Hole: L50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:14:34 | 34.78 | 30.28 | 1,182 | 0.29 | 0.37 | 64.6 |
| 5/1/2015 14:14:34 | 35.11 | 30.61 | 1,182 | 0.29 | 0.37 | 64.6 |
| 5/1/2015 14:14:34 | 35.43 | 30.93 | 1,181 | 0.29 | 0.38 | 64.6 |
| 5/1/2015 14:14:35 | 35.76 | 31.26 | 1,181 | 0.29 | 0.38 | 64.6 |
| 5/1/2015 14:14:35 | 36.09 | 31.59 | 1,194 | 0.30 | 0.38 | 65.3 |
| 5/1/2015 14:14:35 | 36.42 | 31.92 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/1/2015 14:14:36 | 36.75 | 32.25 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/1/2015 14:14:36 | 37.07 | 32.57 | 1,214 | 0.30 | 0.38 | 66.4 |
| 5/1/2015 14:14:36 | 37.40 | 32.90 | 1,214 | 0.30 | 0.38 | 66.4 |
| 5/1/2015 14:14:36 | 37.73 | 33.23 | 1,203 | 0.30 | 0.38 | 65.8 |
| 5/1/2015 14:14:37 | 38.06 | 33.56 | 1,203 | 0.30 | 0.38 | 65.8 |
| 5/1/2015 14:14:37 | 38.39 | 33.89 | 1,205 | 0.29 | 0.38 | 65.9 |
| 5/1/2015 14:14:37 | 38.71 | 34.21 | 1,210 | 0.30 | 0.38 | 66.2 |
| 5/1/2015 14:14:38 | 39.04 | 34.54 | 1,210 | 0.30 | 0.38 | 66.2 |
| 5/1/2015 14:14:38 | 39.37 | 34.87 | 1,205 | 0.30 | 0.38 | 65.9 |
| 5/1/2015 14:14:38 | 39.70 | 35.20 | 1,205 | 0.30 | 0.38 | 65.9 |
| 5/1/2015 14:14:38 | 40.03 | 35.53 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:14:39 | 40.35 | 35.85 | 1,205 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:14:39 | 40.68 | 36.18 | 1,208 | 0.31 | 0.37 | 66.1 |
| 5/1/2015 14:14:39 | 41.01 | 36.51 | 1,206 | 0.30 | 0.37 | 65.9 |
| 5/1/2015 14:14:40 | 41.34 | 36.84 | 1,206 | 0.30 | 0.37 | 65.9 |
| 5/1/2015 14:14:40 | 41.67 | 37.17 | 1,206 | 0.29 | 0.38 | 65.9 |
| 5/1/2015 14:14:41 | 41.99 | 37.49 | 1,206 | 0.29 | 0.38 | 65.9 |
| 5/1/2015 14:14:41 | 42.32 | 37.82 | 1,206 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:14:41 | 42.65 | 38.15 | 1,206 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 14:14:41 | 42.98 | 38.48 | 1,208 | 0.30 | 0.37 | 66.1 |
| 5/1/2015 14:14:42 | 43.31 | 38.81 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 14:14:42 | 43.64 | 39.14 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 14:14:42 | 43.96 | 39.46 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 14:14:43 | 44.29 | 39.79 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 14:14:43 | 44.62 | 40.12 | 1,195 | 0.29 | 0.37 | 65.4 |
| 5/1/2015 14:14:43 | 44.95 | 40.45 | 1,195 | 0.29 | 0.37 | 65.4 |
| 5/1/2015 14:14:43 | 45.28 | 40.78 | 1,203 | 0.29 | 0.38 | 65.8 |
| 5/1/2015 14:14:44 | 45.60 | 41.10 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:14:44 | 45.93 | 41.43 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:14:44 | 46.26 | 41.76 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:14:45 | 46.59 | 42.09 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:14:45 | 46.92 | 42.42 | 1,197 | 0.30 | 0.36 | 65.4 |
| 5/1/2015 14:14:45 | 47.24 | 42.74 | 1,197 | 0.30 | 0.36 | 65.4 |
| 5/1/2015 14:14:45 | 47.57 | 43.07 | 1,195 | 0.28 | 0.42 | 65.4 |
| 5/1/2015 14:15:06 | 47.90 | 43.40 | 55 | 3.00 | 0.46 | 3.0 |
| 5/1/2015 14:15:14 | 48.23 | 43.73 | 26 | 2.85 | 0.49 | 1.4 |
| 5/1/2015 14:15:24 | 48.56 | 44.06 | 32 | 2.84 | 0.47 | 1.7 |
| 5/1/2015 14:15:34 | 48.88 | 44.38 | 35 | 2.83 | 0.46 | 1.9 |
| 5/1/2015 14:15:39 | 49.07 | 44.57 | 33 | 3.01 | 0.47 | 1.8 |

## L50 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:12:47

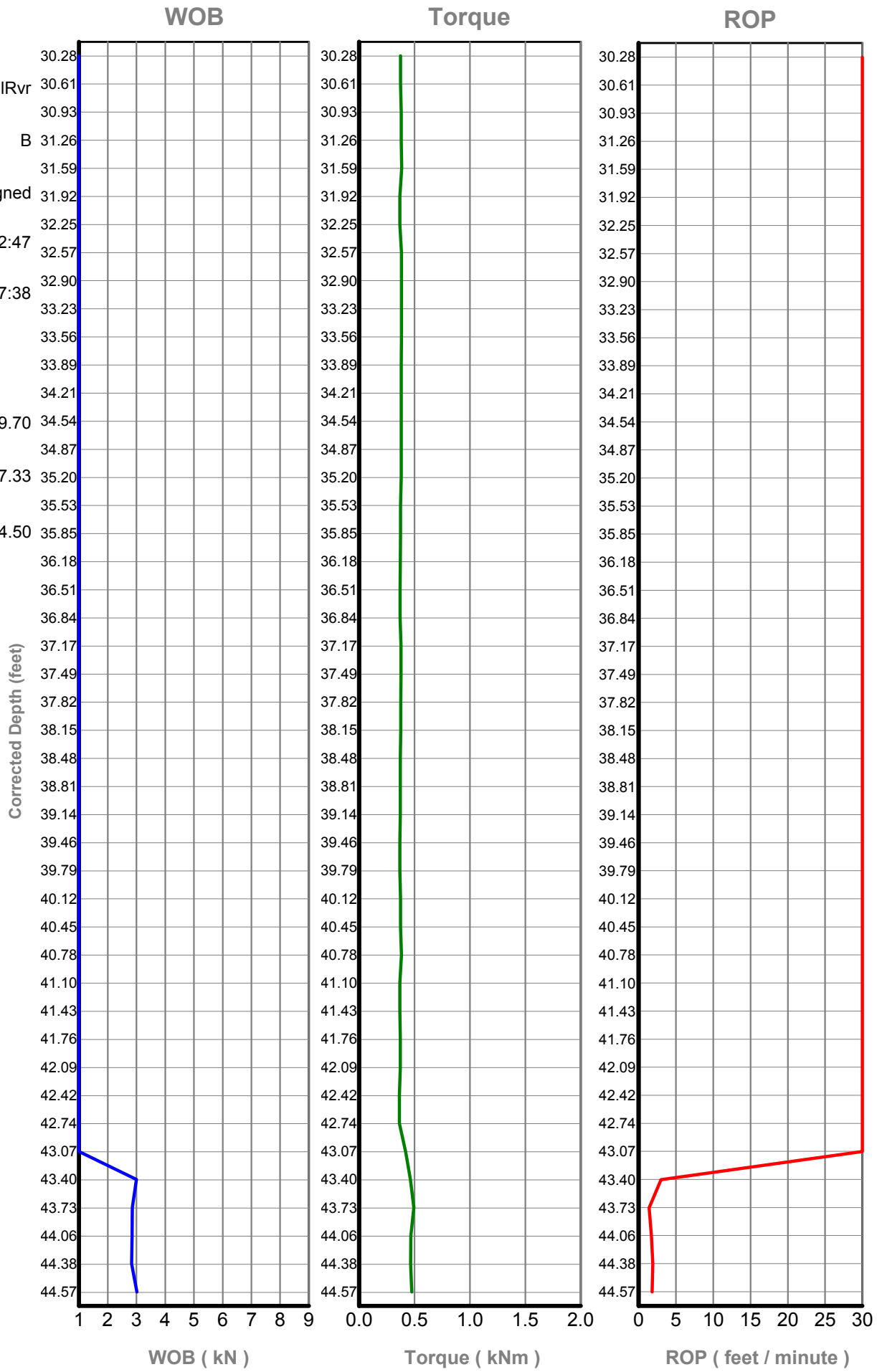
**End Date:**
5/1/2015 14:17:38

**Operator Note:**
'4.5 4.7 b ROCK!!'

**Northing:**
359,849.70

**Easting:**
242,047.33

**Tide (feet):**
4.50



## Hole: L51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:14:03 | 34.78 | 30.28 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:14:03 | 35.11 | 30.61 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:14:03 | 35.43 | 30.93 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 14:14:03 | 35.76 | 31.26 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 14:14:04 | 36.09 | 31.59 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 14:14:04 | 36.42 | 31.92 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:14:05 | 36.75 | 32.25 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:14:05 | 37.07 | 32.57 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:14:05 | 37.40 | 32.90 | 1,074 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:14:06 | 37.73 | 33.23 | 1,074 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:14:06 | 38.06 | 33.56 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 14:14:06 | 38.39 | 33.89 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 14:14:07 | 38.71 | 34.21 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 14:14:07 | 39.04 | 34.54 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 14:14:07 | 39.37 | 34.87 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:14:08 | 39.70 | 35.20 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:14:08 | 40.03 | 35.53 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:14:08 | 40.35 | 35.85 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:14:08 | 40.68 | 36.18 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:14:09 | 41.01 | 36.51 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:14:09 | 41.34 | 36.84 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:14:09 | 41.67 | 37.17 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:14:10 | 41.99 | 37.49 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:14:10 | 42.32 | 37.82 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:14:10 | 42.65 | 38.15 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:14:11 | 42.98 | 38.48 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:14:11 | 43.31 | 38.81 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:14:11 | 43.64 | 39.14 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:14:12 | 43.96 | 39.46 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 14:14:12 | 44.29 | 39.79 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 14:14:12 | 44.62 | 40.12 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 14:14:13 | 44.95 | 40.45 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 14:14:13 | 45.28 | 40.78 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:14:13 | 45.60 | 41.10 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:14 | 45.93 | 41.43 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:14 | 46.26 | 41.76 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:14:15 | 46.59 | 42.09 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:15 | 46.92 | 42.42 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:15 | 47.24 | 42.74 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:16 | 47.57 | 43.07 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:16 | 47.90 | 43.40 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 14:14:16 | 48.23 | 43.73 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:14:17 | 48.56 | 44.06 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:14:17 | 48.88 | 44.38 | 996 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 14:14:38 | 49.21 | 44.71 | 95 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 14:14:39 | 49.54 | 45.04 | 198 | 1.14 | 0.29 | 10.8 |
| 5/1/2015 14:14:40 | 49.87 | 45.37 | 275 | 1.14 | 0.29 | 15.0 |
| 5/1/2015 14:14:41 | 50.20 | 45.70 | 463 | 1.14 | 0.29 | 25.3 |
| 5/1/2015 14:14:42 | 50.53 | 46.03 | 479 | 1.14 | 0.29 | 26.2 |
| 5/1/2015 14:14:42 | 50.85 | 46.35 | 479 | 1.14 | 0.29 | 26.2 |
| 5/1/2015 14:14:43 | 51.18 | 46.68 | 430 | 1.14 | 0.29 | 23.5 |
| 5/1/2015 14:15:09 | 51.51 | 47.01 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 14:15:10 | 51.84 | 47.34 | 138 | 1.14 | 0.29 | 7.5 |
| 5/1/2015 14:15:13 | 52.17 | 47.67 | 170 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 14:16:16 | 52.49 | 47.99 | 42 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 14:16:23 | 52.82 | 48.32 | 43 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 14:16:31 | 53.15 | 48.65 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 14:16:38 | 53.48 | 48.98 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 14:16:42 | 53.81 | 49.31 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 14:16:50 | 54.13 | 49.63 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 14:16:58 | 54.42 | 49.92 | 35 | 1.14 | 0.29 | 1.9 |

## L51 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:12:52

**End Date:**
5/1/2015 14:18:06

**Operator Note:**
'4.5 4.7 c Auto Complete'

**Northing:**
359,889.25

**Easting:**
242,111.02

**Tide (feet):**
4.50



## Hole: L52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:26:23 | 31.17 | 30.07 | 1,232 | 1.87 | 0.79 | 67.4 |
| 5/1/2015 6:26:23 | 31.50 | 30.40 | 1,232 | 1.87 | 0.79 | 67.4 |
| 5/1/2015 6:26:23 | 31.82 | 30.72 | 1,247 | 1.87 | 0.82 | 68.2 |
| 5/1/2015 6:26:24 | 32.15 | 31.05 | 1,247 | 1.87 | 0.82 | 68.2 |
| 5/1/2015 6:26:24 | 32.48 | 31.38 | 1,258 | 1.84 | 0.82 | 68.8 |
| 5/1/2015 6:26:24 | 32.81 | 31.71 | 1,258 | 1.84 | 0.82 | 68.8 |
| 5/1/2015 6:26:24 | 33.14 | 32.04 | 1,245 | 1.87 | 0.82 | 68.1 |
| 5/1/2015 6:26:25 | 33.46 | 32.36 | 1,245 | 1.87 | 0.82 | 68.1 |
| 5/1/2015 6:26:25 | 33.79 | 32.69 | 1,274 | 1.87 | 0.77 | 69.7 |
| 5/1/2015 6:26:25 | 34.12 | 33.02 | 1,271 | 1.88 | 0.78 | 69.5 |
| 5/1/2015 6:26:26 | 34.45 | 33.35 | 1,271 | 1.88 | 0.78 | 69.5 |
| 5/1/2015 6:26:26 | 34.78 | 33.68 | 1,252 | 1.88 | 0.80 | 68.5 |
| 5/1/2015 6:26:26 | 35.11 | 34.01 | 1,252 | 1.88 | 0.80 | 68.5 |
| 5/1/2015 6:26:26 | 35.43 | 34.33 | 1,249 | 1.85 | 0.81 | 68.3 |
| 5/1/2015 6:26:27 | 35.76 | 34.66 | 1,249 | 1.85 | 0.81 | 68.3 |
| 5/1/2015 6:26:27 | 36.09 | 34.99 | 1,249 | 1.85 | 0.78 | 68.3 |
| 5/1/2015 6:26:27 | 36.42 | 35.32 | 1,249 | 1.85 | 0.78 | 68.3 |
| 5/1/2015 6:26:27 | 36.75 | 35.65 | 1,252 | 1.87 | 0.83 | 68.5 |
| 5/1/2015 6:26:28 | 37.07 | 35.97 | 1,252 | 1.87 | 0.83 | 68.5 |
| 5/1/2015 6:26:28 | 37.40 | 36.30 | 1,246 | 1.86 | 0.81 | 68.1 |
| 5/1/2015 6:26:28 | 37.73 | 36.63 | 1,246 | 1.87 | 0.82 | 68.1 |
| 5/1/2015 6:26:29 | 38.06 | 36.96 | 1,246 | 1.87 | 0.82 | 68.1 |
| 5/1/2015 6:26:29 | 38.39 | 37.29 | 1,241 | 1.85 | 0.78 | 67.9 |
| 5/1/2015 6:26:29 | 38.71 | 37.61 | 1,241 | 1.85 | 0.78 | 67.9 |
| 5/1/2015 6:26:29 | 39.04 | 37.94 | 1,252 | 1.85 | 0.81 | 68.4 |
| 5/1/2015 6:26:30 | 39.37 | 38.27 | 1,252 | 1.85 | 0.81 | 68.4 |
| 5/1/2015 6:26:30 | 39.70 | 38.60 | 1,252 | 1.84 | 0.80 | 68.4 |
| 5/1/2015 6:26:30 | 40.03 | 38.93 | 1,252 | 1.84 | 0.80 | 68.4 |
| 5/1/2015 6:26:30 | 40.35 | 39.25 | 1,252 | 1.85 | 0.77 | 68.4 |
| 5/1/2015 6:26:31 | 40.68 | 39.58 | 1,252 | 1.85 | 0.77 | 68.4 |
| 5/1/2015 6:26:31 | 41.01 | 39.91 | 1,252 | 1.87 | 0.24 | 68.4 |
| 5/1/2015 6:26:32 | 41.34 | 40.24 | 1,252 | 1.87 | 0.24 | 68.4 |
| 5/1/2015 6:26:32 | 41.67 | 40.57 | 1,252 | 1.87 | 0.24 | 68.4 |
| 5/1/2015 6:26:32 | 41.99 | 40.89 | 1,252 | 1.85 | 0.24 | 68.4 |
| 5/1/2015 6:26:33 | 42.32 | 41.22 | 1,252 | 1.85 | 0.24 | 68.4 |
| 5/1/2015 6:26:33 | 42.65 | 41.55 | 1,252 | 1.87 | 0.24 | 68.4 |
| 5/1/2015 6:26:33 | 42.98 | 41.88 | 1,252 | 1.87 | 0.24 | 68.4 |
| 5/1/2015 6:26:33 | 43.31 | 42.21 | 1,244 | 1.85 | 0.24 | 68.0 |
| 5/1/2015 6:26:34 | 43.64 | 42.54 | 1,244 | 1.85 | 0.24 | 68.0 |
| 5/1/2015 6:26:34 | 43.96 | 42.86 | 1,258 | 1.86 | 0.24 | 68.8 |
| 5/1/2015 6:26:34 | 44.29 | 43.19 | 1,255 | 1.85 | 0.24 | 68.6 |
| 5/1/2015 6:26:35 | 44.62 | 43.52 | 1,255 | 1.85 | 0.24 | 68.6 |
| 5/1/2015 6:26:35 | 44.95 | 43.85 | 1,255 | 1.86 | 0.24 | 68.6 |
| 5/1/2015 6:26:35 | 45.28 | 44.18 | 1,255 | 1.86 | 0.24 | 68.6 |
| 5/1/2015 6:26:35 | 45.60 | 44.50 | 1,252 | 1.84 | 0.24 | 68.5 |
| 5/1/2015 6:26:36 | 45.93 | 44.83 | 1,252 | 1.84 | 0.24 | 68.5 |
| 5/1/2015 6:26:36 | 46.26 | 45.16 | 1,265 | 1.87 | 0.24 | 69.2 |
| 5/1/2015 6:26:36 | 46.59 | 45.49 | 1,265 | 1.87 | 0.24 | 69.2 |
| 5/1/2015 6:26:36 | 46.92 | 45.82 | 1,252 | 2.02 | 0.24 | 68.5 |
| 5/1/2015 6:26:48 | 47.24 | 46.14 | 41 | 1.09 | 1.26 | 2.2 |
| 5/1/2015 6:26:51 | 47.57 | 46.47 | 119 | 1.15 | 1.12 | 6.5 |
| 5/1/2015 6:26:55 | 47.90 | 46.80 | 93 | 1.13 | 1.24 | 5.1 |
| 5/1/2015 6:27:00 | 48.23 | 47.13 | 78 | 1.05 | 1.19 | 4.3 |
| 5/1/2015 6:27:08 | 48.56 | 47.46 | 35 | 1.07 | 1.01 | 1.9 |
| 5/1/2015 6:27:17 | 48.88 | 47.78 | 38 | 1.13 | 0.89 | 2.1 |
| 5/1/2015 6:27:26 | 49.21 | 48.11 | 37 | 1.01 | 1.10 | 2.0 |
| 5/1/2015 6:27:34 | 49.50 | 48.40 | 38 | 1.21 | 1.00 | 2.1 |

## L52 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:24:02

**End Date:**
5/1/2015 6:29:50

**Operator Note:**
'1.1 1.1 a Auto Complete'

**Northing:**
359,930.13

**Easting:**
242,176.96

**Tide (feet):**
1.10



## Hole: L53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:26:38 | 31.17 | 30.07 | 1,128 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:26:38 | 31.50 | 30.40 | 1,128 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:26:38 | 31.82 | 30.72 | 1,086 | 0.32 | 0.37 | 59.4 |
| 5/1/2015 6:26:39 | 32.15 | 31.05 | 1,086 | 0.32 | 0.37 | 59.4 |
| 5/1/2015 6:26:39 | 32.48 | 31.38 | 1,086 | 0.32 | 0.37 | 59.4 |
| 5/1/2015 6:26:39 | 32.81 | 31.71 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 6:26:40 | 33.14 | 32.04 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 6:26:40 | 33.46 | 32.36 | 1,088 | 0.32 | 0.38 | 59.5 |
| 5/1/2015 6:26:40 | 33.79 | 32.69 | 1,088 | 0.31 | 0.37 | 59.5 |
| 5/1/2015 6:26:41 | 34.12 | 33.02 | 1,088 | 0.31 | 0.37 | 59.5 |
| 5/1/2015 6:26:41 | 34.45 | 33.35 | 1,094 | 0.32 | 0.37 | 59.8 |
| 5/1/2015 6:26:41 | 34.78 | 33.68 | 1,094 | 0.32 | 0.37 | 59.8 |
| 5/1/2015 6:26:41 | 35.11 | 34.01 | 1,076 | 0.32 | 0.37 | 58.8 |
| 5/1/2015 6:26:42 | 35.43 | 34.33 | 1,089 | 0.33 | 0.38 | 59.6 |
| 5/1/2015 6:26:42 | 35.76 | 34.66 | 1,089 | 0.33 | 0.38 | 59.6 |
| 5/1/2015 6:26:42 | 36.09 | 34.99 | 1,089 | 0.32 | 0.37 | 59.6 |
| 5/1/2015 6:26:43 | 36.42 | 35.32 | 1,091 | 0.32 | 0.37 | 59.7 |
| 5/1/2015 6:26:43 | 36.75 | 35.65 | 1,091 | 0.32 | 0.37 | 59.7 |
| 5/1/2015 6:26:43 | 37.07 | 35.97 | 1,103 | 0.32 | 0.38 | 60.3 |
| 5/1/2015 6:26:44 | 37.40 | 36.30 | 1,103 | 0.32 | 0.38 | 60.3 |
| 5/1/2015 6:26:44 | 37.73 | 36.63 | 1,090 | 0.32 | 0.37 | 59.6 |
| 5/1/2015 6:26:44 | 38.06 | 36.96 | 1,109 | 0.31 | 0.37 | 60.6 |
| 5/1/2015 6:26:45 | 38.39 | 37.29 | 1,109 | 0.31 | 0.37 | 60.6 |
| 5/1/2015 6:26:45 | 38.71 | 37.61 | 1,122 | 0.32 | 0.37 | 61.4 |
| 5/1/2015 6:26:46 | 39.04 | 37.94 | 1,122 | 0.32 | 0.37 | 61.4 |
| 5/1/2015 6:26:46 | 39.37 | 38.27 | 1,101 | 0.32 | 0.38 | 60.2 |
| 5/1/2015 6:26:46 | 39.70 | 38.60 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:26:47 | 40.03 | 38.93 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:26:47 | 40.35 | 39.25 | 1,096 | 0.32 | 0.36 | 59.9 |
| 5/1/2015 6:26:47 | 40.68 | 39.58 | 1,096 | 0.31 | 0.38 | 59.9 |
| 5/1/2015 6:26:48 | 41.01 | 39.91 | 1,096 | 0.31 | 0.38 | 59.9 |
| 5/1/2015 6:26:48 | 41.34 | 40.24 | 1,105 | 0.32 | 0.37 | 60.4 |
| 5/1/2015 6:26:48 | 41.67 | 40.57 | 1,105 | 0.32 | 0.37 | 60.4 |
| 5/1/2015 6:26:48 | 41.99 | 40.89 | 1,101 | 0.32 | 0.38 | 60.2 |
| 5/1/2015 6:26:49 | 42.32 | 41.22 | 1,114 | 0.32 | 0.37 | 60.9 |
| 5/1/2015 6:26:49 | 42.65 | 41.55 | 1,114 | 0.32 | 0.37 | 60.9 |
| 5/1/2015 6:26:49 | 42.98 | 41.88 | 1,108 | 0.31 | 0.38 | 60.6 |
| 5/1/2015 6:26:50 | 43.31 | 42.21 | 1,108 | 0.31 | 0.38 | 60.6 |
| 5/1/2015 6:26:50 | 43.64 | 42.54 | 1,128 | 0.33 | 0.37 | 61.7 |
| 5/1/2015 6:26:50 | 43.96 | 42.86 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 6:26:51 | 44.29 | 43.19 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 6:26:51 | 44.62 | 43.52 | 1,120 | 0.32 | 0.37 | 61.2 |
| 5/1/2015 6:26:51 | 44.95 | 43.85 | 1,113 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 6:26:52 | 45.28 | 44.18 | 1,113 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 6:26:52 | 45.60 | 44.50 | 1,113 | 0.31 | 0.38 | 60.9 |
| 5/1/2015 6:26:52 | 45.93 | 44.83 | 1,113 | 0.31 | 0.38 | 60.9 |
| 5/1/2015 6:26:52 | 46.26 | 45.16 | 1,116 | 0.31 | 0.38 | 61.0 |
| 5/1/2015 6:26:53 | 46.59 | 45.49 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/1/2015 6:26:53 | 46.92 | 45.82 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/1/2015 6:26:53 | 47.24 | 46.14 | 1,119 | 0.32 | 0.37 | 61.2 |
| 5/1/2015 6:26:54 | 47.57 | 46.47 | 1,119 | 0.32 | 0.37 | 61.2 |
| 5/1/2015 6:26:54 | 47.90 | 46.80 | 1,112 | 0.31 | 0.38 | 60.8 |
| 5/1/2015 6:26:54 | 48.23 | 47.13 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:26:55 | 48.56 | 47.46 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:26:55 | 48.88 | 47.78 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:26:55 | 49.21 | 48.11 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 6:27:01 | 49.54 | 48.44 | 0 | 3.58 | 0.42 | 0.0 |
| 5/1/2015 6:27:01 | 49.87 | 48.77 | 85 | 3.57 | 0.44 | 4.7 |
| 5/1/2015 6:27:02 | 50.20 | 49.10 | 280 | 3.51 | 0.42 | 15.3 |
| 5/1/2015 6:27:06 | 50.53 | 49.43 | 0 | 3.56 | 0.43 | 0.0 |
| 5/1/2015 6:27:08 | 50.85 | 49.75 | 168 | 3.09 | 0.45 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:27:10 | 51.18 | 50.08 | 150 | 3.12 | 0.45 | 8.2 |
| 5/1/2015 | 6:27:12 | 51.51 | 50.41 | 162 | 3.42 | 0.45 | 8.9 |
| 5/1/2015 | 6:27:15 | 51.84 | 50.74 | 152 | 3.31 | 0.46 | 8.3 |
| 5/1/2015 | 6:27:18 | 52.17 | 51.07 | 128 | 3.24 | 0.45 | 7.0 |
| 5/1/2015 | 6:27:20 | 52.49 | 51.39 | 142 | 3.28 | 0.46 | 7.7 |
| 5/1/2015 | 6:27:23 | 52.82 | 51.72 | 139 | 3.34 | 0.46 | 7.6 |
| 5/1/2015 | 6:27:30 | 53.15 | 52.05 | 78 | 3.28 | 0.45 | 4.3 |
| 5/1/2015 | 6:27:32 | 53.48 | 52.38 | 133 | 3.16 | 0.46 | 7.3 |
| 5/1/2015 | 6:27:35 | 53.81 | 52.71 | 99 | 3.01 | 0.43 | 5.4 |
| 5/1/2015 | 6:27:36 | 54.13 | 53.03 | 136 | 3.03 | 0.43 | 7.4 |
| 5/1/2015 | 6:27:39 | 54.46 | 53.36 | 240 | 3.23 | 0.44 | 13.1 |
| 5/1/2015 | 6:27:40 | 54.79 | 53.69 | 217 | 3.41 | 0.44 | 11.9 |
| 5/1/2015 | 6:27:41 | 55.12 | 54.02 | 261 | 3.62 | 0.46 | 14.3 |
| 5/1/2015 | 6:27:45 | 55.45 | 54.35 | 115 | 3.24 | 0.45 | 6.3 |
| 5/1/2015 | 6:27:47 | 55.77 | 54.67 | 226 | 3.19 | 0.44 | 12.3 |
| 5/1/2015 | 6:27:50 | 56.10 | 55.00 | 144 | 3.16 | 0.45 | 7.9 |

## L53 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:25:11

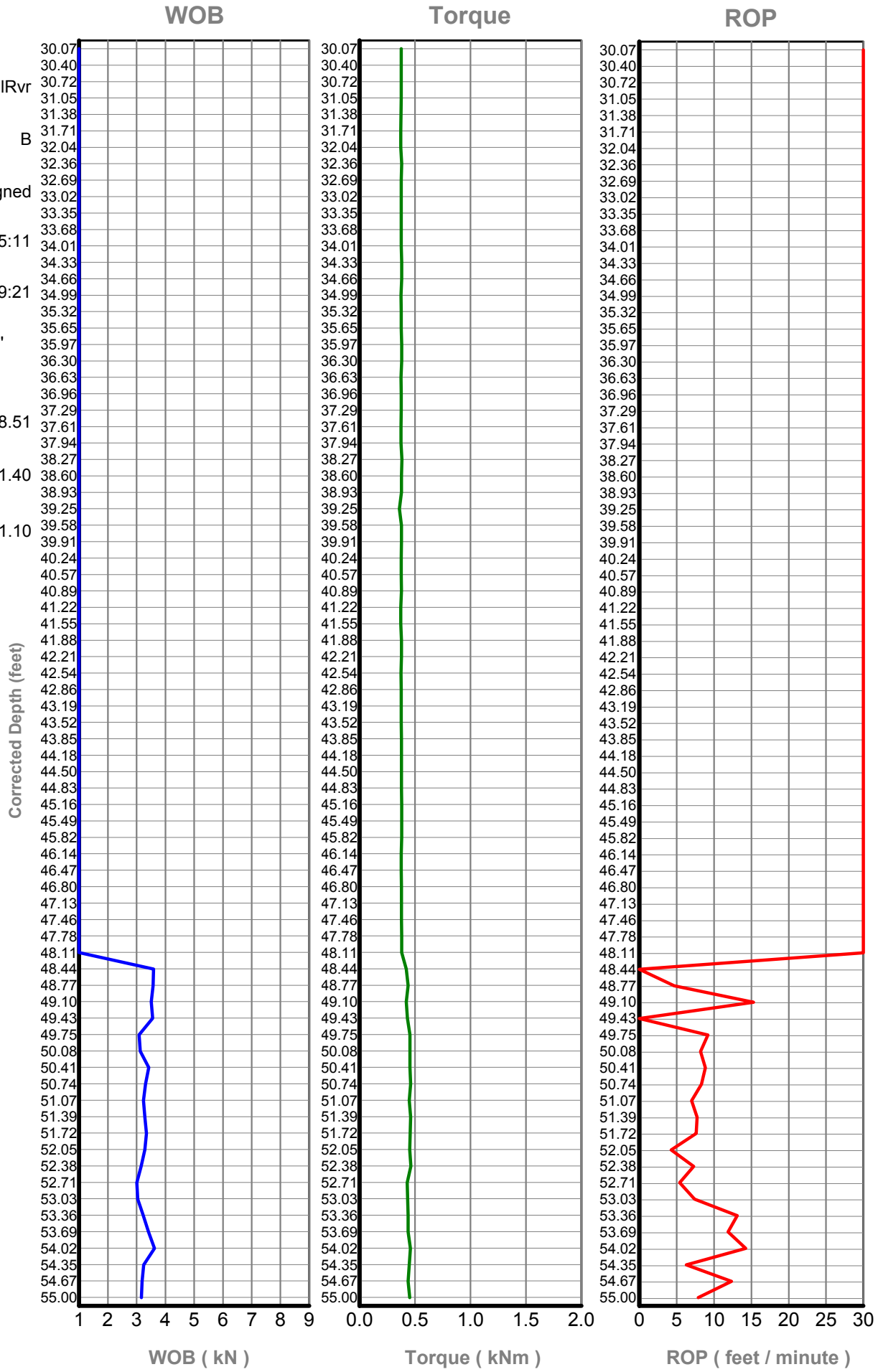
**End Date:**
5/1/2015 6:29:21

**Operator Note:**
'1.1 1.1b Auto Complete'

**Northing:**
359,968.51

**Easting:**
242,241.40

**Tide (feet):**
1.10



## Hole: L54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:25:15 | 31.17 | 30.07 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 6:25:16 | 31.50 | 30.40 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 6:25:16 | 31.82 | 30.72 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 6:25:16 | 32.15 | 31.05 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:17 | 32.48 | 31.38 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:17 | 32.81 | 31.71 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:17 | 33.14 | 32.04 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:25:18 | 33.46 | 32.36 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:25:18 | 33.79 | 32.69 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:25:18 | 34.12 | 33.02 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:19 | 34.45 | 33.35 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:25:19 | 34.78 | 33.68 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:25:19 | 35.11 | 34.01 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 6:25:20 | 35.43 | 34.33 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:25:20 | 35.76 | 34.66 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:25:20 | 36.09 | 34.99 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:21 | 36.42 | 35.32 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:21 | 36.75 | 35.65 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:21 | 37.07 | 35.97 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:25:22 | 37.40 | 36.30 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:25:22 | 37.73 | 36.63 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:23 | 38.06 | 36.96 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:23 | 38.39 | 37.29 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:23 | 38.71 | 37.61 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 6:25:24 | 39.04 | 37.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:24 | 39.37 | 38.27 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:24 | 39.70 | 38.60 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:25 | 40.03 | 38.93 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:25 | 40.35 | 39.25 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:25:25 | 40.68 | 39.58 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 6:25:26 | 41.01 | 39.91 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 6:25:26 | 41.34 | 40.24 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 6:25:26 | 41.67 | 40.57 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 6:25:27 | 41.99 | 40.89 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 6:25:27 | 42.32 | 41.22 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 6:25:27 | 42.65 | 41.55 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:25:28 | 42.98 | 41.88 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:25:28 | 43.31 | 42.21 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:25:28 | 43.64 | 42.54 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:25:29 | 43.96 | 42.86 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 6:25:29 | 44.29 | 43.19 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 6:25:29 | 44.62 | 43.52 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:30 | 44.95 | 43.85 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:25:30 | 45.28 | 44.18 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:25:30 | 45.60 | 44.50 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:25:31 | 45.93 | 44.83 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:31 | 46.26 | 45.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:31 | 46.59 | 45.49 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:32 | 46.92 | 45.82 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:32 | 47.24 | 46.14 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:32 | 47.57 | 46.47 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:33 | 47.90 | 46.80 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 6:25:33 | 48.23 | 47.13 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 6:25:34 | 48.56 | 47.46 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:25:34 | 48.88 | 47.78 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:35 | 49.21 | 48.11 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:35 | 49.54 | 48.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 6:25:35 | 49.87 | 48.77 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:36 | 50.20 | 49.10 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:36 | 50.53 | 49.43 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 6:25:36 | 50.85 | 49.75 | 1,018 | 1.14 | 0.29 | 55.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:25:45 | 51.18 | 50.08 | 80 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 | 6:25:47 | 51.51 | 50.41 | 200 | 1.14 | 0.29 | 11.0 |
| 5/1/2015 | 6:25:47 | 51.84 | 50.74 | 330 | 1.14 | 0.29 | 18.0 |
| 5/1/2015 | 6:25:49 | 52.17 | 51.07 | 223 | 1.14 | 0.29 | 12.2 |
| 5/1/2015 | 6:25:50 | 52.49 | 51.39 | 282 | 1.14 | 0.29 | 15.4 |
| 5/1/2015 | 6:25:51 | 52.82 | 51.72 | 341 | 1.14 | 0.29 | 18.6 |
| 5/1/2015 | 6:25:52 | 53.15 | 52.05 | 387 | 1.14 | 0.29 | 21.1 |
| 5/1/2015 | 6:25:53 | 53.48 | 52.38 | 337 | 1.14 | 0.29 | 18.4 |
| 5/1/2015 | 6:25:56 | 53.81 | 52.71 | 135 | 1.14 | 0.29 | 7.4 |
| 5/1/2015 | 6:26:01 | 54.13 | 53.03 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 6:26:02 | 54.46 | 53.36 | 145 | 1.14 | 0.29 | 7.9 |
| 5/1/2015 | 6:26:02 | 54.79 | 53.69 | 236 | 1.14 | 0.29 | 12.9 |
| 5/1/2015 | 6:26:05 | 55.12 | 54.02 | 168 | 1.14 | 0.29 | 9.2 |
| 5/1/2015 | 6:26:05 | 55.45 | 54.35 | 177 | 1.14 | 0.29 | 9.7 |
| 5/1/2015 | 6:26:07 | 55.77 | 54.67 | 271 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 | 6:26:08 | 56.10 | 55.00 | 224 | 1.14 | 0.29 | 12.3 |

## L54 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:24:19

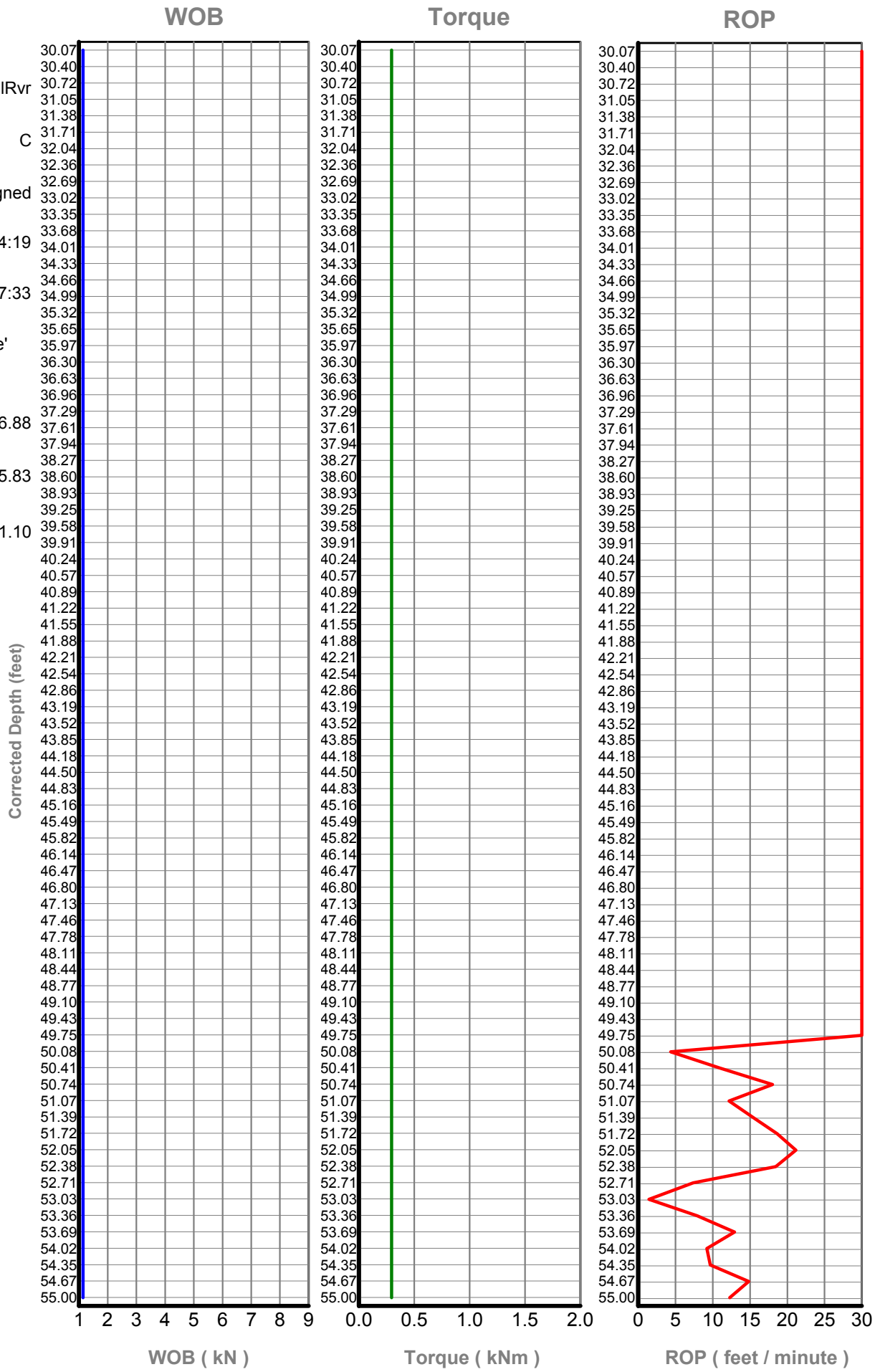
**End Date:**
5/1/2015 6:27:33

**Operator Note:**
'1.1 1.1 c Auto Complete'

**Northing:**
360,006.88

**Easting:**
242,305.83

**Tide (feet):**
1.10



## Hole: L55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:34:19 | 33.14 | 30.24 | 701 | 1.13 | 0.21 | 38.3 |
| 5/1/2015 3:34:19 | 33.46 | 30.56 | 716 | 1.13 | 0.22 | 39.2 |
| 5/1/2015 3:34:20 | 33.79 | 30.89 | 702 | 1.13 | 0.21 | 38.4 |
| 5/1/2015 3:34:20 | 34.12 | 31.22 | 708 | 1.14 | 0.21 | 38.7 |
| 5/1/2015 3:34:21 | 34.45 | 31.55 | 708 | 1.14 | 0.21 | 38.7 |
| 5/1/2015 3:34:21 | 34.78 | 31.88 | 698 | 1.13 | 0.21 | 38.2 |
| 5/1/2015 3:34:22 | 35.11 | 32.21 | 698 | 1.13 | 0.21 | 38.2 |
| 5/1/2015 3:34:22 | 35.43 | 32.53 | 708 | 1.15 | 0.22 | 38.7 |
| 5/1/2015 3:34:23 | 35.76 | 32.86 | 705 | 1.15 | 0.22 | 38.5 |
| 5/1/2015 3:34:23 | 36.09 | 33.19 | 690 | 1.13 | 0.21 | 37.7 |
| 5/1/2015 3:34:24 | 36.42 | 33.52 | 696 | 1.14 | 0.22 | 38.1 |
| 5/1/2015 3:34:24 | 36.75 | 33.85 | 696 | 1.14 | 0.21 | 38.1 |
| 5/1/2015 3:34:25 | 37.07 | 34.17 | 710 | 1.19 | 0.21 | 38.8 |
| 5/1/2015 3:34:26 | 37.40 | 34.50 | 683 | 1.13 | 0.21 | 37.3 |
| 5/1/2015 3:34:26 | 37.73 | 34.83 | 681 | 1.14 | 0.22 | 37.3 |
| 5/1/2015 3:34:27 | 38.06 | 35.16 | 681 | 1.13 | 0.21 | 37.3 |
| 5/1/2015 3:34:27 | 38.39 | 35.49 | 713 | 1.14 | 0.22 | 39.0 |
| 5/1/2015 3:34:28 | 38.71 | 35.81 | 697 | 1.15 | 0.22 | 38.1 |
| 5/1/2015 3:34:28 | 39.04 | 36.14 | 688 | 1.14 | 0.22 | 37.6 |
| 5/1/2015 3:34:29 | 39.37 | 36.47 | 702 | 1.13 | 0.22 | 38.4 |
| 5/1/2015 3:34:29 | 39.70 | 36.80 | 694 | 1.14 | 0.21 | 38.0 |
| 5/1/2015 3:34:30 | 40.03 | 37.13 | 694 | 1.13 | 0.22 | 38.0 |
| 5/1/2015 3:34:30 | 40.35 | 37.45 | 697 | 1.14 | 0.22 | 38.1 |
| 5/1/2015 3:34:31 | 40.68 | 37.78 | 701 | 1.14 | 0.21 | 38.3 |
| 5/1/2015 3:34:31 | 41.01 | 38.11 | 701 | 1.13 | 0.16 | 38.3 |
| 5/1/2015 3:34:32 | 41.34 | 38.44 | 708 | 1.14 | 0.21 | 38.7 |
| 5/1/2015 3:34:32 | 41.67 | 38.77 | 706 | 1.15 | 0.21 | 38.6 |
| 5/1/2015 3:34:33 | 41.99 | 39.09 | 705 | 1.15 | 0.21 | 38.5 |
| 5/1/2015 3:34:33 | 42.32 | 39.42 | 697 | 1.13 | 0.21 | 38.1 |
| 5/1/2015 3:34:34 | 42.65 | 39.75 | 710 | 1.13 | 0.21 | 38.8 |
| 5/1/2015 3:34:35 | 42.98 | 40.08 | 710 | 1.13 | 0.21 | 38.8 |
| 5/1/2015 3:34:34 | 43.31 | 40.41 | 692 | 1.14 | 0.22 | 37.8 |
| 5/1/2015 3:34:35 | 43.64 | 40.74 | 692 | 1.13 | 0.22 | 37.8 |
| 5/1/2015 3:34:36 | 43.96 | 41.06 | 702 | 1.14 | 0.22 | 38.4 |
| 5/1/2015 3:34:36 | 44.29 | 41.39 | 695 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 3:34:37 | 44.62 | 41.72 | 695 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 3:34:37 | 44.95 | 42.05 | 682 | 1.13 | 0.21 | 37.3 |
| 5/1/2015 3:34:38 | 45.28 | 42.38 | 682 | 1.13 | 0.21 | 37.3 |
| 5/1/2015 3:34:38 | 45.60 | 42.70 | 693 | 1.14 | 0.21 | 37.9 |
| 5/1/2015 3:34:39 | 45.93 | 43.03 | 687 | 1.14 | 0.21 | 37.6 |
| 5/1/2015 3:34:39 | 46.26 | 43.36 | 688 | 1.13 | 0.21 | 37.6 |
| 5/1/2015 3:34:40 | 46.59 | 43.69 | 686 | 1.14 | 0.21 | 37.5 |
| 5/1/2015 3:34:40 | 46.92 | 44.02 | 690 | 1.13 | 0.21 | 37.8 |
| 5/1/2015 3:34:41 | 47.24 | 44.34 | 690 | 1.14 | 0.21 | 37.8 |
| 5/1/2015 3:34:41 | 47.57 | 44.67 | 686 | 1.15 | 0.21 | 37.5 |
| 5/1/2015 3:34:42 | 47.90 | 45.00 | 709 | 1.13 | 0.21 | 38.8 |
| 5/1/2015 3:34:42 | 48.23 | 45.33 | 683 | 1.13 | 0.21 | 37.3 |
| 5/1/2015 3:34:43 | 48.56 | 45.66 | 683 | 1.14 | 0.21 | 37.3 |
| 5/1/2015 3:35:23 | 48.88 | 45.98 | 0 | 1.20 | 0.81 | 0.0 |
| 5/1/2015 3:35:36 | 49.21 | 46.31 | 82 | 1.13 | 1.31 | 4.5 |
| 5/1/2015 3:35:39 | 49.54 | 46.64 | 116 | 1.10 | 1.31 | 6.3 |
| 5/1/2015 3:35:42 | 49.87 | 46.97 | 95 | 1.12 | 1.21 | 5.2 |
| 5/1/2015 3:35:47 | 50.20 | 47.30 | 64 | 1.16 | 1.03 | 3.5 |
| 5/1/2015 3:35:55 | 50.53 | 47.63 | 45 | 1.20 | 1.05 | 2.5 |
| 5/1/2015 3:36:03 | 50.85 | 47.95 | 49 | 1.19 | 1.08 | 2.7 |
| 5/1/2015 3:36:11 | 51.18 | 48.28 | 49 | 1.11 | 1.06 | 2.7 |
| 5/1/2015 3:36:15 | 51.36 | 48.46 | 43 | 1.20 | 1.34 | 2.4 |

## L55 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:31:16

**End Date:**
5/1/2015 3:37:57

**Operator Note:**
'2.9 3.2 a Auto Complete'

**Northing:**
360,043.12

**Easting:**
242,367.42

**Tide (feet):**
2.90



## Hole: L56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:32:42 | 33.14 | 30.24 | 1,135 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:32:42 | 33.46 | 30.56 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:32:42 | 33.79 | 30.89 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:32:42 | 34.12 | 31.22 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 3:32:43 | 34.45 | 31.55 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 3:32:43 | 34.78 | 31.88 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 3:32:43 | 35.11 | 32.21 | 1,124 | 0.32 | 0.39 | 61.5 |
| 5/1/2015 3:32:44 | 35.43 | 32.53 | 1,124 | 0.32 | 0.39 | 61.5 |
| 5/1/2015 3:32:44 | 35.76 | 32.86 | 1,144 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 3:32:44 | 36.09 | 33.19 | 1,146 | 0.33 | 0.38 | 62.7 |
| 5/1/2015 3:32:45 | 36.42 | 33.52 | 1,146 | 0.33 | 0.38 | 62.7 |
| 5/1/2015 3:32:45 | 36.75 | 33.85 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 3:32:45 | 37.07 | 34.17 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 3:32:45 | 37.40 | 34.50 | 1,115 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 3:32:46 | 37.73 | 34.83 | 1,115 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:32:46 | 38.06 | 35.16 | 1,115 | 0.33 | 0.39 | 61.0 |
| 5/1/2015 3:32:46 | 38.39 | 35.49 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 3:32:47 | 38.71 | 35.81 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 3:32:47 | 39.04 | 36.14 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 3:32:47 | 39.37 | 36.47 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/1/2015 3:32:48 | 39.70 | 36.80 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/1/2015 3:32:48 | 40.03 | 37.13 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 3:32:48 | 40.35 | 37.45 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 3:32:48 | 40.68 | 37.78 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 3:32:49 | 41.01 | 38.11 | 1,163 | 0.32 | 0.37 | 63.6 |
| 5/1/2015 3:32:49 | 41.34 | 38.44 | 1,163 | 0.32 | 0.37 | 63.6 |
| 5/1/2015 3:32:49 | 41.67 | 38.77 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/1/2015 3:32:50 | 41.99 | 39.09 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/1/2015 3:32:50 | 42.32 | 39.42 | 1,138 | 0.33 | 0.38 | 62.2 |
| 5/1/2015 3:32:50 | 42.65 | 39.75 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:32:51 | 42.98 | 40.08 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:32:51 | 43.31 | 40.41 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:32:52 | 43.64 | 40.74 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:32:52 | 43.96 | 41.06 | 1,167 | 0.33 | 0.38 | 63.8 |
| 5/1/2015 3:32:52 | 44.29 | 41.39 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:32:53 | 44.62 | 41.72 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:32:53 | 44.95 | 42.05 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/1/2015 3:32:53 | 45.28 | 42.38 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/1/2015 3:32:53 | 45.60 | 42.70 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/1/2015 3:32:54 | 45.93 | 43.03 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/1/2015 3:32:54 | 46.26 | 43.36 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:32:54 | 46.59 | 43.69 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:32:55 | 46.92 | 44.02 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:32:55 | 47.24 | 44.34 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:32:55 | 47.57 | 44.67 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:32:55 | 47.90 | 45.00 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 3:32:56 | 48.23 | 45.33 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 3:32:56 | 48.56 | 45.66 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 3:33:03 | 48.88 | 45.98 | 14 | 3.29 | 0.47 | 0.8 |
| 5/1/2015 3:33:12 | 49.21 | 46.31 | 49 | 3.60 | 0.47 | 2.7 |
| 5/1/2015 3:33:18 | 49.54 | 46.64 | 61 | 3.62 | 0.46 | 3.3 |
| 5/1/2015 3:33:24 | 49.87 | 46.97 | 70 | 4.26 | 0.47 | 3.8 |
| 5/1/2015 3:33:29 | 50.20 | 47.30 | 59 | 3.51 | 0.47 | 3.2 |
| 5/1/2015 3:33:35 | 50.53 | 47.63 | 71 | 3.39 | 0.48 | 3.9 |
| 5/1/2015 3:33:38 | 50.85 | 47.95 | 96 | 3.77 | 0.47 | 5.2 |
| 5/1/2015 3:33:46 | 51.18 | 48.28 | 38 | 2.99 | 0.47 | 2.1 |
| 5/1/2015 3:33:55 | 51.51 | 48.61 | 38 | 2.93 | 0.47 | 2.1 |
| 5/1/2015 3:34:05 | 51.84 | 48.94 | 35 | 3.14 | 0.47 | 1.9 |
| 5/1/2015 3:34:10 | 52.00 | 49.10 | 35 | 3.41 | 0.48 | 1.9 |

## L56 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:31:11

**End Date:**
5/1/2015 3:35:44

**Operator Note:**
'2.9 3.2b Auto Complete'

**Northing:**
360,085.56

**Easting:**
242,431.10

**Tide (feet):**
2.90



## Hole: L57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:30:56 | 33.14 | 30.24 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:30:56 | 33.46 | 30.56 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:30:57 | 33.79 | 30.89 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:30:57 | 34.12 | 31.22 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:30:57 | 34.45 | 31.55 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:30:58 | 34.78 | 31.88 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:30:58 | 35.11 | 32.21 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:30:58 | 35.43 | 32.53 | 968 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 3:30:59 | 35.76 | 32.86 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:30:59 | 36.09 | 33.19 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:30:59 | 36.42 | 33.52 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:00 | 36.75 | 33.85 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:00 | 37.07 | 34.17 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:00 | 37.40 | 34.50 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:01 | 37.73 | 34.83 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:01 | 38.06 | 35.16 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:02 | 38.39 | 35.49 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:02 | 38.71 | 35.81 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:02 | 39.04 | 36.14 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:31:03 | 39.37 | 36.47 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:31:03 | 39.70 | 36.80 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 3:31:04 | 40.03 | 37.13 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:04 | 40.35 | 37.45 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:04 | 40.68 | 37.78 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 3:31:05 | 41.01 | 38.11 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 3:31:05 | 41.34 | 38.44 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:06 | 41.67 | 38.77 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:06 | 41.99 | 39.09 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:06 | 42.32 | 39.42 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 3:31:07 | 42.65 | 39.75 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 3:31:07 | 42.98 | 40.08 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:07 | 43.31 | 40.41 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:08 | 43.64 | 40.74 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:08 | 43.96 | 41.06 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:08 | 44.29 | 41.39 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:09 | 44.62 | 41.72 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:09 | 44.95 | 42.05 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:09 | 45.28 | 42.38 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:10 | 45.60 | 42.70 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:10 | 45.93 | 43.03 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 3:31:10 | 46.26 | 43.36 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:11 | 46.59 | 43.69 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 3:31:11 | 46.92 | 44.02 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 3:31:12 | 47.24 | 44.34 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 3:31:12 | 47.57 | 44.67 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 3:31:12 | 47.90 | 45.00 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:13 | 48.23 | 45.33 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 3:31:27 | 48.56 | 45.66 | 9 | 1.14 | 0.29 | 0.5 |
| 5/1/2015 3:31:34 | 48.88 | 45.98 | 20 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 3:31:35 | 49.21 | 46.31 | 132 | 1.14 | 0.29 | 7.2 |
| 5/1/2015 3:31:36 | 49.54 | 46.64 | 231 | 1.14 | 0.29 | 12.6 |
| 5/1/2015 3:31:43 | 49.87 | 46.97 | 107 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 3:32:05 | 50.20 | 47.30 | 25 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 3:32:20 | 50.53 | 47.63 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 3:32:34 | 50.85 | 47.95 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 3:32:46 | 51.18 | 48.28 | 39 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 3:32:51 | 51.34 | 48.44 | 30 | 1.14 | 0.29 | 1.7 |

## L57 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:29:34

**End Date:**
5/1/2015 3:34:13

**Operator Note:**
'2.9 3.2 c Auto Complete'

**Northing:**
360,128.00

**Easting:**
242,491.21

**Tide (feet):**
2.90



## Hole: L58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:33:55 | 35.11 | 30.21 | 1,245 | 1.83 | 0.24 | 68.1 |
| 5/1/2015 1:33:55 | 35.43 | 30.53 | 1,247 | 1.82 | 0.24 | 68.2 |
| 5/1/2015 1:33:56 | 35.76 | 30.86 | 1,251 | 1.82 | 0.24 | 68.4 |
| 5/1/2015 1:33:56 | 36.09 | 31.19 | 1,251 | 1.82 | 0.24 | 68.4 |
| 5/1/2015 1:33:56 | 36.42 | 31.52 | 1,260 | 1.81 | 0.24 | 68.9 |
| 5/1/2015 1:33:57 | 36.75 | 31.85 | 1,260 | 1.81 | 0.24 | 68.9 |
| 5/1/2015 1:33:57 | 37.07 | 32.17 | 1,219 | 1.81 | 0.24 | 66.7 |
| 5/1/2015 1:33:57 | 37.40 | 32.50 | 1,219 | 1.81 | 0.24 | 66.7 |
| 5/1/2015 1:33:57 | 37.73 | 32.83 | 1,219 | 1.81 | 0.23 | 66.7 |
| 5/1/2015 1:33:58 | 38.06 | 33.16 | 1,219 | 1.81 | 0.23 | 66.7 |
| 5/1/2015 1:33:58 | 38.39 | 33.49 | 1,255 | 1.80 | 0.24 | 68.6 |
| 5/1/2015 1:33:58 | 38.71 | 33.81 | 1,211 | 1.80 | 0.24 | 66.2 |
| 5/1/2015 1:33:59 | 39.04 | 34.14 | 1,211 | 1.80 | 0.24 | 66.2 |
| 5/1/2015 1:33:59 | 39.37 | 34.47 | 1,211 | 1.82 | 0.24 | 66.2 |
| 5/1/2015 1:33:59 | 39.70 | 34.80 | 1,211 | 1.82 | 0.24 | 66.2 |
| 5/1/2015 1:33:59 | 40.03 | 35.13 | 1,229 | 1.83 | 0.23 | 67.2 |
| 5/1/2015 1:34:00 | 40.35 | 35.45 | 1,229 | 1.83 | 0.23 | 67.2 |
| 5/1/2015 1:34:00 | 40.68 | 35.78 | 1,227 | 1.81 | 0.24 | 67.1 |
| 5/1/2015 1:34:01 | 41.01 | 36.11 | 1,227 | 1.81 | 0.24 | 67.1 |
| 5/1/2015 1:34:00 | 41.34 | 36.44 | 1,233 | 1.81 | 0.24 | 67.4 |
| 5/1/2015 1:34:01 | 41.67 | 36.77 | 1,233 | 1.81 | 0.24 | 67.4 |
| 5/1/2015 1:34:01 | 41.99 | 37.09 | 1,233 | 1.81 | 0.24 | 67.4 |
| 5/1/2015 1:34:02 | 42.32 | 37.42 | 1,225 | 1.81 | 0.24 | 67.0 |
| 5/1/2015 1:34:02 | 42.65 | 37.75 | 1,225 | 1.81 | 0.24 | 67.0 |
| 5/1/2015 1:34:02 | 42.98 | 38.08 | 1,261 | 1.80 | 0.24 | 69.0 |
| 5/1/2015 1:34:03 | 43.31 | 38.41 | 1,261 | 1.80 | 0.24 | 69.0 |
| 5/1/2015 1:34:03 | 43.64 | 38.74 | 1,238 | 1.79 | 0.23 | 67.7 |
| 5/1/2015 1:34:03 | 43.96 | 39.06 | 1,238 | 1.79 | 0.23 | 67.7 |
| 5/1/2015 1:34:03 | 44.29 | 39.39 | 1,239 | 1.81 | 0.23 | 67.7 |
| 5/1/2015 1:34:04 | 44.62 | 39.72 | 1,239 | 1.81 | 0.23 | 67.7 |
| 5/1/2015 1:34:04 | 44.95 | 40.05 | 1,253 | 1.80 | 0.23 | 68.5 |
| 5/1/2015 1:34:04 | 45.28 | 40.38 | 1,243 | 1.81 | 0.24 | 68.0 |
| 5/1/2015 1:34:05 | 45.60 | 40.70 | 1,243 | 1.81 | 0.24 | 68.0 |
| 5/1/2015 1:34:05 | 45.93 | 41.03 | 1,240 | 1.81 | 0.24 | 67.8 |
| 5/1/2015 1:34:05 | 46.26 | 41.36 | 1,240 | 1.81 | 0.24 | 67.8 |
| 5/1/2015 1:34:05 | 46.59 | 41.69 | 1,237 | 1.79 | 0.23 | 67.7 |
| 5/1/2015 1:34:06 | 46.92 | 42.02 | 1,237 | 1.79 | 0.23 | 67.7 |
| 5/1/2015 1:34:06 | 47.24 | 42.34 | 1,223 | 1.82 | 0.24 | 66.9 |
| 5/1/2015 1:34:06 | 47.57 | 42.67 | 1,223 | 1.82 | 0.24 | 66.9 |
| 5/1/2015 1:34:06 | 47.90 | 43.00 | 1,241 | 1.80 | 0.23 | 67.9 |
| 5/1/2015 1:34:07 | 48.23 | 43.33 | 1,238 | 1.81 | 0.23 | 67.7 |
| 5/1/2015 1:34:07 | 48.56 | 43.66 | 1,238 | 1.81 | 0.23 | 67.7 |
| 5/1/2015 1:34:07 | 48.88 | 43.98 | 1,235 | 1.79 | 0.24 | 67.6 |
| 5/1/2015 1:34:08 | 49.21 | 44.31 | 1,235 | 1.79 | 0.24 | 67.6 |
| 5/1/2015 1:34:08 | 49.54 | 44.64 | 1,231 | 1.99 | 0.24 | 67.3 |
| 5/1/2015 1:34:26 | 49.87 | 44.97 | 0 | 1.05 | 0.84 | 0.0 |
| 5/1/2015 1:34:29 | 50.20 | 45.30 | 90 | 1.15 | 1.09 | 4.9 |
| 5/1/2015 1:34:33 | 50.53 | 45.63 | 113 | 1.11 | 1.44 | 6.2 |
| 5/1/2015 1:34:37 | 50.85 | 45.95 | 81 | 1.05 | 1.16 | 4.4 |
| 5/1/2015 1:34:41 | 51.18 | 46.28 | 66 | 1.08 | 0.96 | 3.6 |
| 5/1/2015 1:34:47 | 51.51 | 46.61 | 64 | 1.10 | 1.32 | 3.5 |
| 5/1/2015 1:34:57 | 51.84 | 46.94 | 29 | 1.18 | 0.95 | 1.6 |
| 5/1/2015 1:35:05 | 52.17 | 47.27 | 51 | 1.06 | 1.08 | 2.8 |
| 5/1/2015 1:35:10 | 52.49 | 47.59 | 56 | 1.11 | 1.03 | 3.1 |
| 5/1/2015 1:35:18 | 52.82 | 47.92 | 43 | 1.05 | 1.09 | 2.3 |
| 5/1/2015 1:35:26 | 53.15 | 48.25 | 52 | 1.05 | 0.97 | 2.9 |
| 5/1/2015 1:35:31 | 53.48 | 48.58 | 58 | 1.09 | 1.20 | 3.2 |
| 5/1/2015 1:35:39 | 53.81 | 48.91 | 43 | 1.05 | 0.96 | 2.4 |
| 5/1/2015 1:35:52 | 54.13 | 49.23 | 31 | 1.07 | 0.92 | 1.7 |
| 5/1/2015 1:36:00 | 54.37 | 49.47 | 38 | 1.02 | 1.01 | 2.1 |

## L58 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:31:46

**End Date:**
5/1/2015 1:40:46

**Operator Note:**
'4.9 5.3 a Auto Complete'

**Northing:**
360,167.00

**Easting:**
242,557.40

**Tide (feet):**
4.90



## Hole: L59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:34:37 | 35.11 | 30.21 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 1:34:37 | 35.43 | 30.53 | 1,138 | 0.31 | 0.38 | 62.2 |
| 5/1/2015 1:34:37 | 35.76 | 30.86 | 1,129 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 1:34:38 | 36.09 | 31.19 | 1,129 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 1:34:38 | 36.42 | 31.52 | 1,147 | 0.31 | 0.38 | 62.7 |
| 5/1/2015 1:34:38 | 36.75 | 31.85 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:34:39 | 37.07 | 32.17 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:34:39 | 37.40 | 32.50 | 1,106 | 0.31 | 0.37 | 60.5 |
| 5/1/2015 1:34:39 | 37.73 | 32.83 | 1,106 | 0.31 | 0.37 | 60.5 |
| 5/1/2015 1:34:40 | 38.06 | 33.16 | 1,106 | 0.31 | 0.37 | 60.5 |
| 5/1/2015 1:34:40 | 38.39 | 33.49 | 1,131 | 0.32 | 0.38 | 61.9 |
| 5/1/2015 1:34:40 | 38.71 | 33.81 | 1,131 | 0.32 | 0.38 | 61.9 |
| 5/1/2015 1:34:41 | 39.04 | 34.14 | 1,131 | 0.31 | 0.37 | 61.9 |
| 5/1/2015 1:34:41 | 39.37 | 34.47 | 1,131 | 0.31 | 0.37 | 61.9 |
| 5/1/2015 1:34:41 | 39.70 | 34.80 | 1,126 | 0.31 | 0.38 | 61.6 |
| 5/1/2015 1:34:42 | 40.03 | 35.13 | 1,126 | 0.31 | 0.38 | 61.6 |
| 5/1/2015 1:34:42 | 40.35 | 35.45 | 1,126 | 0.31 | 0.38 | 61.6 |
| 5/1/2015 1:34:42 | 40.68 | 35.78 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 1:34:43 | 41.01 | 36.11 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/1/2015 1:34:43 | 41.34 | 36.44 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 1:34:43 | 41.67 | 36.77 | 1,156 | 0.24 | 0.37 | 63.2 |
| 5/1/2015 1:34:44 | 41.99 | 37.09 | 1,156 | 0.24 | 0.37 | 63.2 |
| 5/1/2015 1:34:44 | 42.32 | 37.42 | 1,138 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 1:34:44 | 42.65 | 37.75 | 1,138 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 1:34:44 | 42.98 | 38.08 | 1,138 | 0.31 | 0.37 | 62.3 |
| 5/1/2015 1:34:45 | 43.31 | 38.41 | 1,147 | 0.31 | 0.37 | 62.7 |
| 5/1/2015 1:34:45 | 43.64 | 38.74 | 1,147 | 0.31 | 0.37 | 62.7 |
| 5/1/2015 1:34:45 | 43.96 | 39.06 | 1,128 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:34:46 | 44.29 | 39.39 | 1,128 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:34:46 | 44.62 | 39.72 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/1/2015 1:34:46 | 44.95 | 40.05 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 1:34:47 | 45.28 | 40.38 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 1:34:47 | 45.60 | 40.70 | 1,155 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:34:47 | 45.93 | 41.03 | 1,155 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 1:34:47 | 46.26 | 41.36 | 1,151 | 0.07 | 0.38 | 63.0 |
| 5/1/2015 1:34:48 | 46.59 | 41.69 | 1,142 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:34:48 | 46.92 | 42.02 | 1,142 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:34:48 | 47.24 | 42.34 | 1,142 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 1:34:49 | 47.57 | 42.67 | 1,142 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 1:34:49 | 47.90 | 43.00 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 1:34:49 | 48.23 | 43.33 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/1/2015 1:34:49 | 48.56 | 43.66 | 1,146 | 0.31 | 0.37 | 62.7 |
| 5/1/2015 1:34:50 | 48.88 | 43.98 | 1,142 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:34:50 | 49.21 | 44.31 | 1,142 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:34:51 | 49.54 | 44.64 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 1:34:51 | 49.87 | 44.97 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 1:34:51 | 50.20 | 45.30 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 1:34:52 | 50.53 | 45.63 | 1,145 | 0.29 | 0.43 | 62.6 |
| 5/1/2015 1:34:56 | 50.85 | 45.95 | 23 | 4.00 | 0.45 | 1.3 |
| 5/1/2015 1:34:59 | 51.18 | 46.28 | 82 | 3.96 | 0.44 | 4.5 |
| 5/1/2015 1:35:09 | 51.51 | 46.61 | 75 | 4.21 | 0.46 | 4.1 |
| 5/1/2015 1:35:13 | 51.84 | 46.94 | 98 | 4.24 | 0.47 | 5.4 |
| 5/1/2015 1:35:19 | 52.17 | 47.27 | 37 | 3.12 | 0.47 | 2.0 |
| 5/1/2015 1:35:26 | 52.49 | 47.59 | 64 | 3.45 | 0.47 | 3.5 |
| 5/1/2015 1:35:32 | 52.82 | 47.92 | 55 | 3.31 | 0.47 | 3.0 |
| 5/1/2015 1:35:38 | 53.12 | 48.22 | 58 | 2.88 | 0.46 | 3.2 |

## L59 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:33:12

**End Date:**
5/1/2015 1:37:08

**Operator Note:**
'4.9 5.3b Auto Complete'

**Northing:**
360,206.40

**Easting:**
242,621.60

**Tide (feet):**
4.90



## Hole: L6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 8:28:52 | 33.79 | 30.09 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 8:28:53 | 34.12 | 30.42 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 8:28:53 | 34.45 | 30.75 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 8:28:53 | 34.78 | 31.08 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 8:28:54 | 35.11 | 31.41 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 8:28:54 | 35.43 | 31.73 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 8:28:54 | 35.76 | 32.06 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 8:28:55 | 36.09 | 32.39 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 8:28:55 | 36.42 | 32.72 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 8:28:55 | 36.75 | 33.05 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 8:28:56 | 37.07 | 33.37 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 8:28:56 | 37.40 | 33.70 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 8:28:56 | 37.73 | 34.03 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 8:28:57 | 38.06 | 34.36 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 8:28:57 | 38.39 | 34.69 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 8:28:57 | 38.71 | 35.01 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 8:28:58 | 39.04 | 35.34 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:28:58 | 39.37 | 35.67 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:28:58 | 39.70 | 36.00 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:28:59 | 40.03 | 36.33 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:28:59 | 40.35 | 36.65 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:28:59 | 40.68 | 36.98 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:29:00 | 41.01 | 37.31 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 8:29:00 | 41.34 | 37.64 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 8:29:00 | 41.67 | 37.97 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 8:29:01 | 41.99 | 38.29 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 8:29:01 | 42.32 | 38.62 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 8:29:01 | 42.65 | 38.95 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:29:02 | 42.98 | 39.28 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:29:02 | 43.31 | 39.61 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:02 | 43.64 | 39.94 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:03 | 43.96 | 40.26 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:03 | 44.29 | 40.59 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:29:04 | 44.62 | 40.92 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 8:29:04 | 44.95 | 41.25 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 8:29:04 | 45.28 | 41.58 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:29:05 | 45.60 | 41.90 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:29:05 | 45.93 | 42.23 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 8:29:05 | 46.26 | 42.56 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 8:29:06 | 46.59 | 42.89 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:29:06 | 46.92 | 43.22 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:29:06 | 47.24 | 43.54 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:29:07 | 47.57 | 43.87 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 8:29:07 | 47.90 | 44.20 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 8:29:07 | 48.23 | 44.53 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 8:29:08 | 48.56 | 44.86 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:08 | 48.88 | 45.18 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:08 | 49.21 | 45.51 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:09 | 49.54 | 45.84 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:29:09 | 49.87 | 46.17 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 8:29:09 | 50.20 | 46.50 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:10 | 50.53 | 46.83 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 8:29:10 | 50.85 | 47.15 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 8:29:10 | 51.18 | 47.48 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:29:11 | 51.51 | 47.81 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 8:29:11 | 51.84 | 48.14 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 8:29:11 | 52.17 | 48.47 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 8:29:12 | 52.49 | 48.79 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 8:29:12 | 52.82 | 49.12 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 8:29:12 | 53.15 | 49.45 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 8:29:13 | 53.48 | 49.78 | 995 | 1.14 | 0.29 | 54.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 8:29:13 | 53.81 | 50.11 | 963 | 1.14 | 0.29 | 52.6 |
| 5/1/2015 | 8:29:35 | 54.13 | 50.43 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 8:29:35 | 54.46 | 50.76 | 126 | 1.14 | 0.29 | 6.9 |
| 5/1/2015 | 8:29:36 | 54.79 | 51.09 | 253 | 1.14 | 0.29 | 13.9 |
| 5/1/2015 | 8:29:41 | 55.12 | 51.42 | 18 | 1.14 | 0.29 | 1.0 |
| 5/1/2015 | 8:29:42 | 55.45 | 51.75 | 60 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 8:29:43 | 55.77 | 52.07 | 213 | 1.14 | 0.29 | 11.6 |
| 5/1/2015 | 8:29:43 | 56.10 | 52.40 | 310 | 1.14 | 0.29 | 16.9 |
| 5/1/2015 | 8:29:49 | 56.43 | 52.73 | 53 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 8:29:51 | 56.76 | 53.06 | 189 | 1.14 | 0.29 | 10.3 |
| 5/1/2015 | 8:29:57 | 57.09 | 53.39 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 8:29:59 | 57.41 | 53.71 | 167 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 | 8:30:00 | 57.74 | 54.04 | 210 | 1.14 | 0.29 | 11.5 |
| 5/1/2015 | 8:30:04 | 58.07 | 54.37 | 72 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 | 8:30:07 | 58.40 | 54.70 | 124 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 | 8:30:07 | 58.45 | 54.75 | 124 | 1.14 | 0.29 | 6.8 |

## L6 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 8:27:46

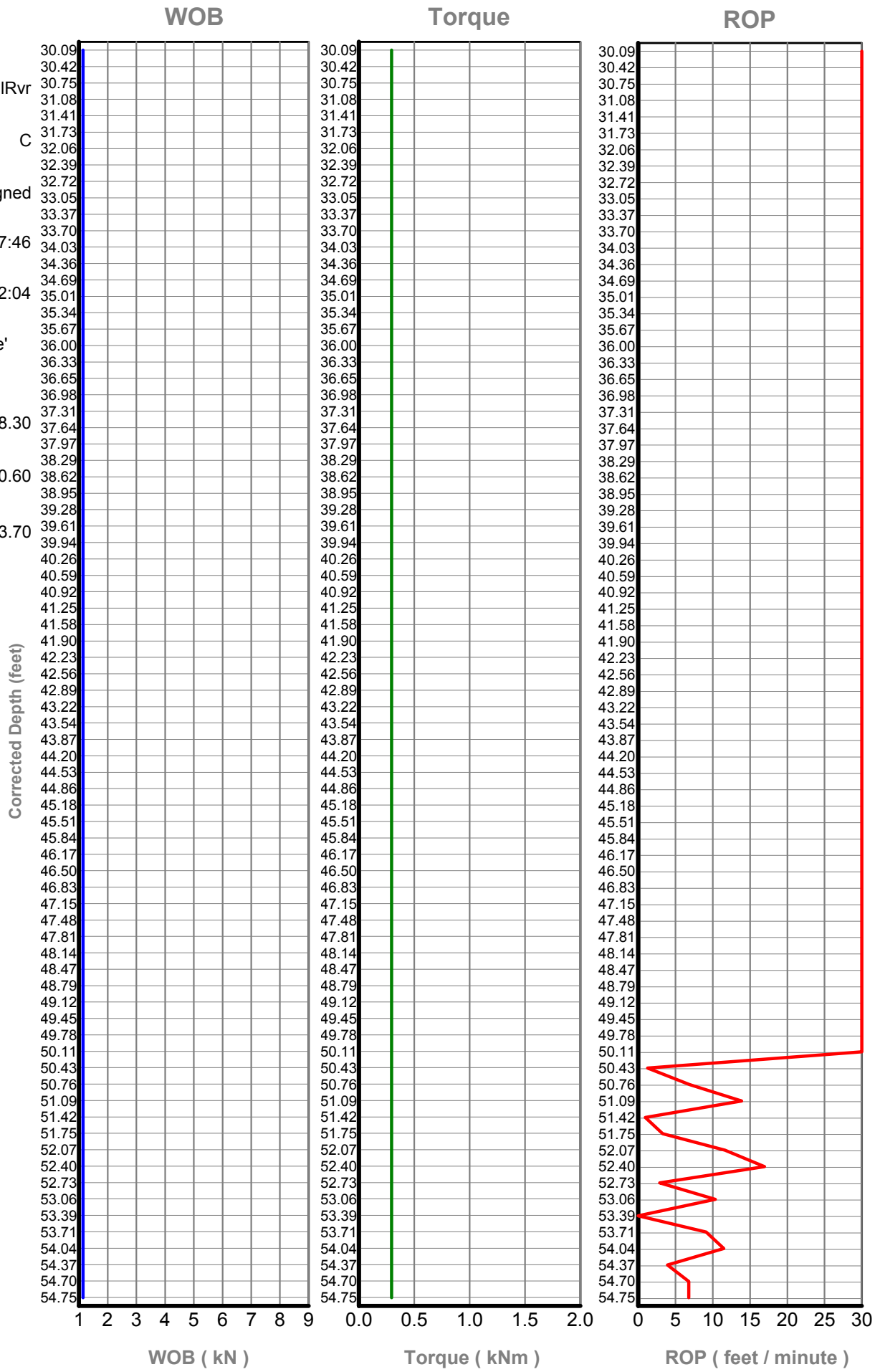
**End Date:**
5/1/2015 8:32:04

**Operator Note:**
'3.7 3.4 c Auto Complete'

**Northing:**
360,198.30

**Easting:**
242,190.60

**Tide (feet):**
3.70



## Hole: L60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:33:13 | 35.11 | 30.21 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:33:13 | 35.43 | 30.53 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:14 | 35.76 | 30.86 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:14 | 36.09 | 31.19 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:14 | 36.42 | 31.52 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:15 | 36.75 | 31.85 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:33:16 | 37.07 | 32.17 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:33:15 | 37.40 | 32.50 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:33:16 | 37.73 | 32.83 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:33:16 | 38.06 | 33.16 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 1:33:17 | 38.39 | 33.49 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 1:33:17 | 38.71 | 33.81 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 1:33:17 | 39.04 | 34.14 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:33:18 | 39.37 | 34.47 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:33:18 | 39.70 | 34.80 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:33:18 | 40.03 | 35.13 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:19 | 40.35 | 35.45 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:19 | 40.68 | 35.78 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 1:33:19 | 41.01 | 36.11 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:20 | 41.34 | 36.44 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:20 | 41.67 | 36.77 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 1:33:20 | 41.99 | 37.09 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:21 | 42.32 | 37.42 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:21 | 42.65 | 37.75 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:21 | 42.98 | 38.08 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:22 | 43.31 | 38.41 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:22 | 43.64 | 38.74 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:22 | 43.96 | 39.06 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:33:22 | 44.29 | 39.39 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 1:33:23 | 44.62 | 39.72 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:33:23 | 44.95 | 40.05 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:33:23 | 45.28 | 40.38 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/1/2015 1:33:24 | 45.60 | 40.70 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:24 | 45.93 | 41.03 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:24 | 46.26 | 41.36 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:33:25 | 46.59 | 41.69 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:25 | 46.92 | 42.02 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:25 | 47.24 | 42.34 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:26 | 47.57 | 42.67 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:26 | 47.90 | 43.00 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:33:26 | 48.23 | 43.33 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:33:27 | 48.56 | 43.66 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:33:27 | 48.88 | 43.98 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:33:28 | 49.21 | 44.31 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:33:28 | 49.54 | 44.64 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:33:28 | 49.87 | 44.97 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:33:29 | 50.20 | 45.30 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:29 | 50.53 | 45.63 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:33:29 | 50.85 | 45.95 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:33:30 | 51.18 | 46.28 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:33:30 | 51.51 | 46.61 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:33:30 | 51.84 | 46.94 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:33:31 | 52.17 | 47.27 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:33:31 | 52.49 | 47.59 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 1:33:38 | 52.82 | 47.92 | 12 | 1.14 | 0.29 | 0.6 |
| 5/1/2015 1:33:39 | 53.15 | 48.25 | 117 | 1.14 | 0.29 | 6.4 |
| 5/1/2015 1:33:40 | 53.48 | 48.58 | 303 | 1.14 | 0.29 | 16.6 |
| 5/1/2015 1:33:50 | 53.81 | 48.91 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 1:33:51 | 54.13 | 49.23 | 184 | 1.14 | 0.29 | 10.1 |
| 5/1/2015 1:34:00 | 54.46 | 49.56 | 87 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 1:34:02 | 54.79 | 49.89 | 136 | 1.14 | 0.29 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:34:03 | 55.12 | 50.22 | 228 | 1.14 | 0.29 | 12.4 |
| 5/1/2015 | 1:34:04 | 55.45 | 50.55 | 296 | 1.14 | 0.29 | 16.2 |
| 5/1/2015 | 1:34:04 | 55.77 | 50.87 | 376 | 1.14 | 0.29 | 20.6 |
| 5/1/2015 | 1:34:17 | 56.10 | 51.20 | 6 | 1.14 | 0.29 | 0.3 |
| 5/1/2015 | 1:34:19 | 56.43 | 51.53 | 158 | 1.14 | 0.29 | 8.6 |
| 5/1/2015 | 1:34:19 | 56.76 | 51.86 | 243 | 1.14 | 0.29 | 13.3 |
| 5/1/2015 | 1:34:20 | 57.09 | 52.19 | 351 | 1.14 | 0.29 | 19.2 |
| 5/1/2015 | 1:34:21 | 57.41 | 52.51 | 456 | 1.14 | 0.29 | 25.0 |
| 5/1/2015 | 1:34:24 | 57.74 | 52.84 | 78 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 1:34:33 | 58.07 | 53.17 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 | 1:34:37 | 58.40 | 53.50 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 1:34:41 | 58.73 | 53.83 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 1:34:45 | 59.06 | 54.16 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 | 1:34:48 | 59.38 | 54.48 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 1:34:52 | 59.71 | 54.81 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 | 1:34:54 | 60.04 | 55.14 | 119 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 1:34:58 | 60.37 | 55.47 | 100 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 | 1:34:59 | 60.46 | 55.56 | 87 | 1.14 | 0.29 | 4.8 |

## L60 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:32:13

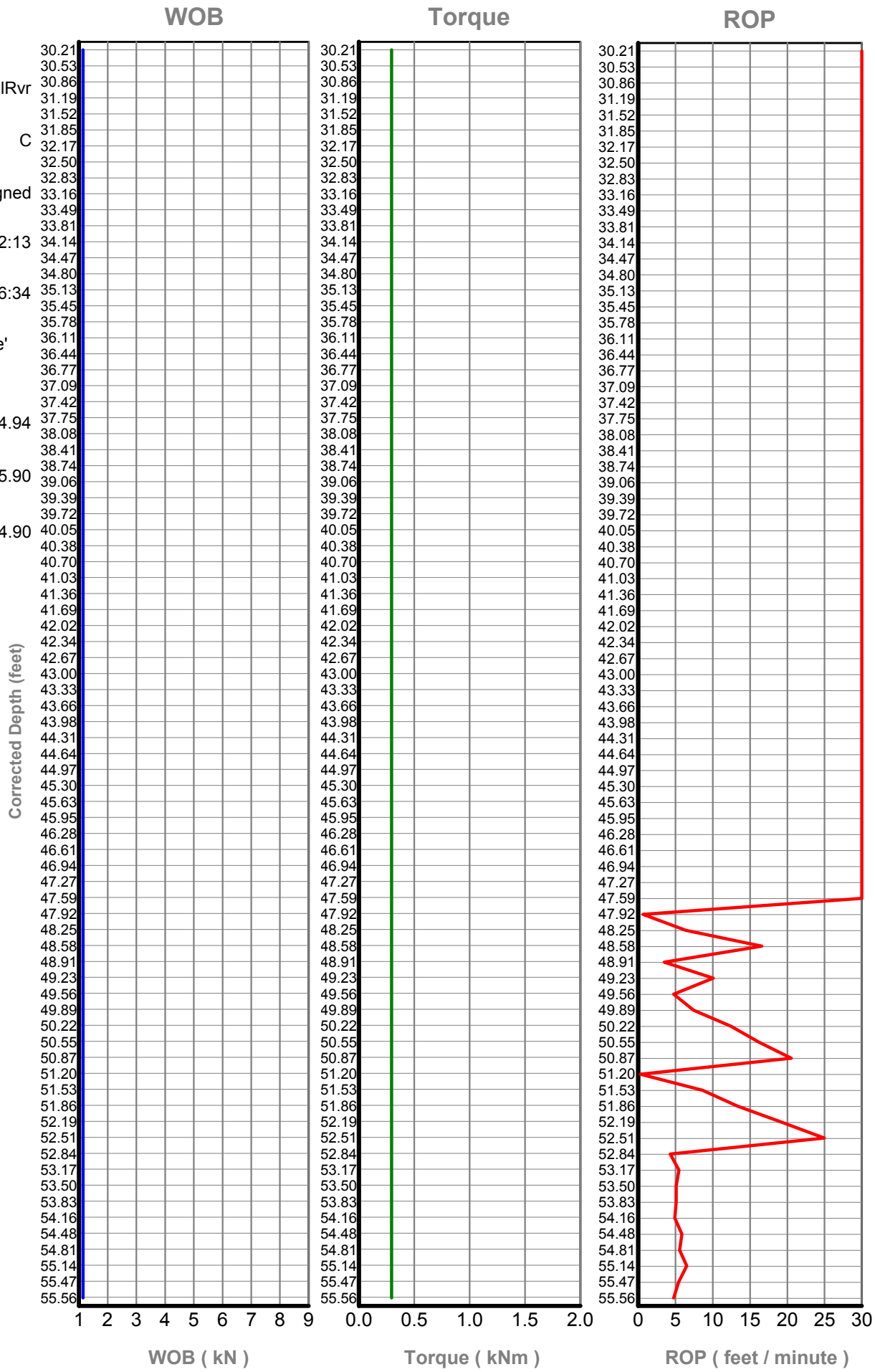
**End Date:**
5/1/2015 1:36:34

**Operator Note:**
'4.9 5.3 c Auto Complete'

**Northing:**
360,244.94

**Easting:**
242,685.90

**Tide (feet):**
4.90



## Hole: L61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:43:06 | 36.75 | 30.15 | 731 | 1.10 | 0.20 | 40.0 |
| 4/30/2015 22:43:07 | 37.07 | 30.47 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 22:43:07 | 37.40 | 30.80 | 744 | 1.11 | 0.20 | 40.7 |
| 4/30/2015 22:43:08 | 37.73 | 31.13 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 22:43:09 | 38.06 | 31.46 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 22:43:09 | 38.39 | 31.79 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 22:43:10 | 38.71 | 32.11 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 22:43:10 | 39.04 | 32.44 | 740 | 1.12 | 0.20 | 40.5 |
| 4/30/2015 22:43:10 | 39.37 | 32.77 | 731 | 1.10 | 0.20 | 40.0 |
| 4/30/2015 22:43:11 | 39.70 | 33.10 | 741 | 1.10 | 0.20 | 40.5 |
| 4/30/2015 22:43:11 | 40.03 | 33.43 | 741 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 22:43:12 | 40.35 | 33.75 | 741 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 22:43:12 | 40.68 | 34.08 | 741 | 1.15 | 0.20 | 40.5 |
| 4/30/2015 22:43:13 | 41.01 | 34.41 | 749 | 1.13 | 0.20 | 41.0 |
| 4/30/2015 22:43:13 | 41.34 | 34.74 | 734 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 22:43:14 | 41.67 | 35.07 | 738 | 1.11 | 0.20 | 40.4 |
| 4/30/2015 22:43:14 | 41.99 | 35.39 | 734 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 22:43:15 | 42.32 | 35.72 | 737 | 1.11 | 0.20 | 40.3 |
| 4/30/2015 22:43:15 | 42.65 | 36.05 | 734 | 1.11 | 0.21 | 40.1 |
| 4/30/2015 22:43:16 | 42.98 | 36.38 | 734 | 1.12 | 0.20 | 40.1 |
| 4/30/2015 22:43:16 | 43.31 | 36.71 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 22:43:17 | 43.64 | 37.04 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 22:43:17 | 43.96 | 37.36 | 734 | 1.12 | 0.20 | 40.1 |
| 4/30/2015 22:43:17 | 44.29 | 37.69 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 22:43:18 | 44.62 | 38.02 | 734 | 1.13 | 0.21 | 40.2 |
| 4/30/2015 22:43:19 | 44.95 | 38.35 | 734 | 1.13 | 0.20 | 40.2 |
| 4/30/2015 22:43:19 | 45.28 | 38.68 | 734 | 1.13 | 0.20 | 40.2 |
| 4/30/2015 22:43:20 | 45.60 | 39.00 | 731 | 1.13 | 0.20 | 40.0 |
| 4/30/2015 22:43:20 | 45.93 | 39.33 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 22:43:21 | 46.26 | 39.66 | 713 | 1.09 | 0.20 | 39.0 |
| 4/30/2015 22:43:21 | 46.59 | 39.99 | 713 | 1.11 | 0.20 | 39.0 |
| 4/30/2015 22:43:22 | 46.92 | 40.32 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 22:43:22 | 47.24 | 40.64 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 22:43:23 | 47.57 | 40.97 | 721 | 1.38 | 0.21 | 39.5 |
| 4/30/2015 22:43:23 | 47.90 | 41.30 | 721 | 1.10 | 0.20 | 39.5 |
| 4/30/2015 22:43:24 | 48.23 | 41.63 | 734 | 1.11 | 0.20 | 40.1 |
| 4/30/2015 22:43:24 | 48.56 | 41.96 | 726 | 1.10 | 0.20 | 39.7 |
| 4/30/2015 22:43:25 | 48.88 | 42.28 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 22:43:25 | 49.21 | 42.61 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 22:43:25 | 49.54 | 42.94 | 728 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 22:43:26 | 49.87 | 43.27 | 728 | 1.09 | 0.20 | 39.8 |
| 4/30/2015 22:43:26 | 50.20 | 43.60 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 22:43:27 | 50.53 | 43.93 | 728 | 1.10 | 0.20 | 39.8 |
| 4/30/2015 22:43:27 | 50.85 | 44.25 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 22:43:28 | 51.18 | 44.58 | 723 | 1.10 | 0.20 | 39.5 |
| 4/30/2015 22:43:29 | 51.51 | 44.91 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 22:43:29 | 51.84 | 45.24 | 718 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 22:43:30 | 52.17 | 45.57 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 22:43:30 | 52.49 | 45.89 | 723 | 1.13 | 0.20 | 39.5 |
| 4/30/2015 22:43:41 | 52.82 | 46.22 | 85 | 1.13 | 1.44 | 4.6 |
| 4/30/2015 22:43:45 | 53.15 | 46.55 | 73 | 1.02 | 1.08 | 4.0 |
| 4/30/2015 22:43:46 | 53.48 | 46.88 | 149 | 1.05 | 1.12 | 8.2 |
| 4/30/2015 22:43:47 | 53.81 | 47.21 | 309 | 1.09 | 1.24 | 16.9 |
| 4/30/2015 22:43:47 | 54.13 | 47.53 | 388 | 1.09 | 0.85 | 21.2 |
| 4/30/2015 22:43:48 | 54.46 | 47.86 | 457 | 0.77 | 0.81 | 25.0 |
| 4/30/2015 22:43:52 | 54.79 | 48.19 | 78 | 1.16 | 0.89 | 4.3 |
| 4/30/2015 22:43:53 | 55.12 | 48.52 | 206 | 1.86 | 0.78 | 11.3 |
| 4/30/2015 22:43:53 | 55.45 | 48.85 | 206 | 1.86 | 0.78 | 11.3 |
| 4/30/2015 22:43:53 | 55.77 | 49.17 | 397 | 1.86 | 0.75 | 21.7 |
| 4/30/2015 22:43:54 | 56.10 | 49.50 | 595 | 1.77 | 0.74 | 32.5 |
| 4/30/2015 22:43:54 | 56.43 | 49.83 | 595 | 1.77 | 0.74 | 32.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:43:55 | 56.76 | 50.16 | 795 | 1.17 | 0.79 | 43.5 |
| 4/30/2015 | 22:43:58 | 57.09 | 50.49 | 60 | 1.77 | 0.70 | 3.3 |
| 4/30/2015 | 22:43:58 | 57.41 | 50.81 | 143 | 1.83 | 0.72 | 7.8 |
| 4/30/2015 | 22:43:59 | 57.74 | 51.14 | 337 | 1.83 | 0.80 | 18.4 |
| 4/30/2015 | 22:43:59 | 58.07 | 51.47 | 337 | 1.83 | 0.80 | 18.4 |
| 4/30/2015 | 22:43:59 | 58.40 | 51.80 | 523 | 1.93 | 0.78 | 28.6 |
| 4/30/2015 | 22:44:00 | 58.73 | 52.13 | 714 | 1.86 | 1.13 | 39.0 |
| 4/30/2015 | 22:44:01 | 59.06 | 52.46 | 820 | 1.91 | 1.06 | 44.8 |
| 4/30/2015 | 22:44:01 | 59.38 | 52.78 | 888 | 1.13 | 1.33 | 48.6 |
| 4/30/2015 | 22:44:06 | 59.71 | 53.11 | 64 | 1.08 | 0.97 | 3.5 |
| 4/30/2015 | 22:44:06 | 60.04 | 53.44 | 156 | 1.06 | 1.01 | 8.5 |
| 4/30/2015 | 22:44:07 | 60.37 | 53.77 | 339 | 1.05 | 1.01 | 18.5 |
| 4/30/2015 | 22:44:08 | 60.70 | 54.10 | 445 | 1.09 | 0.83 | 24.3 |
| 4/30/2015 | 22:44:09 | 61.02 | 54.42 | 442 | 1.10 | 0.81 | 24.2 |
| 4/30/2015 | 22:44:10 | 61.35 | 54.75 | 439 | 1.11 | 0.84 | 24.0 |
| 4/30/2015 | 22:44:11 | 61.68 | 55.08 | 439 | 1.00 | 0.89 | 24.0 |
| 4/30/2015 | 22:44:11 | 61.80 | 55.20 | 423 | 0.65 | 0.95 | 23.1 |

## L61 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:41:17

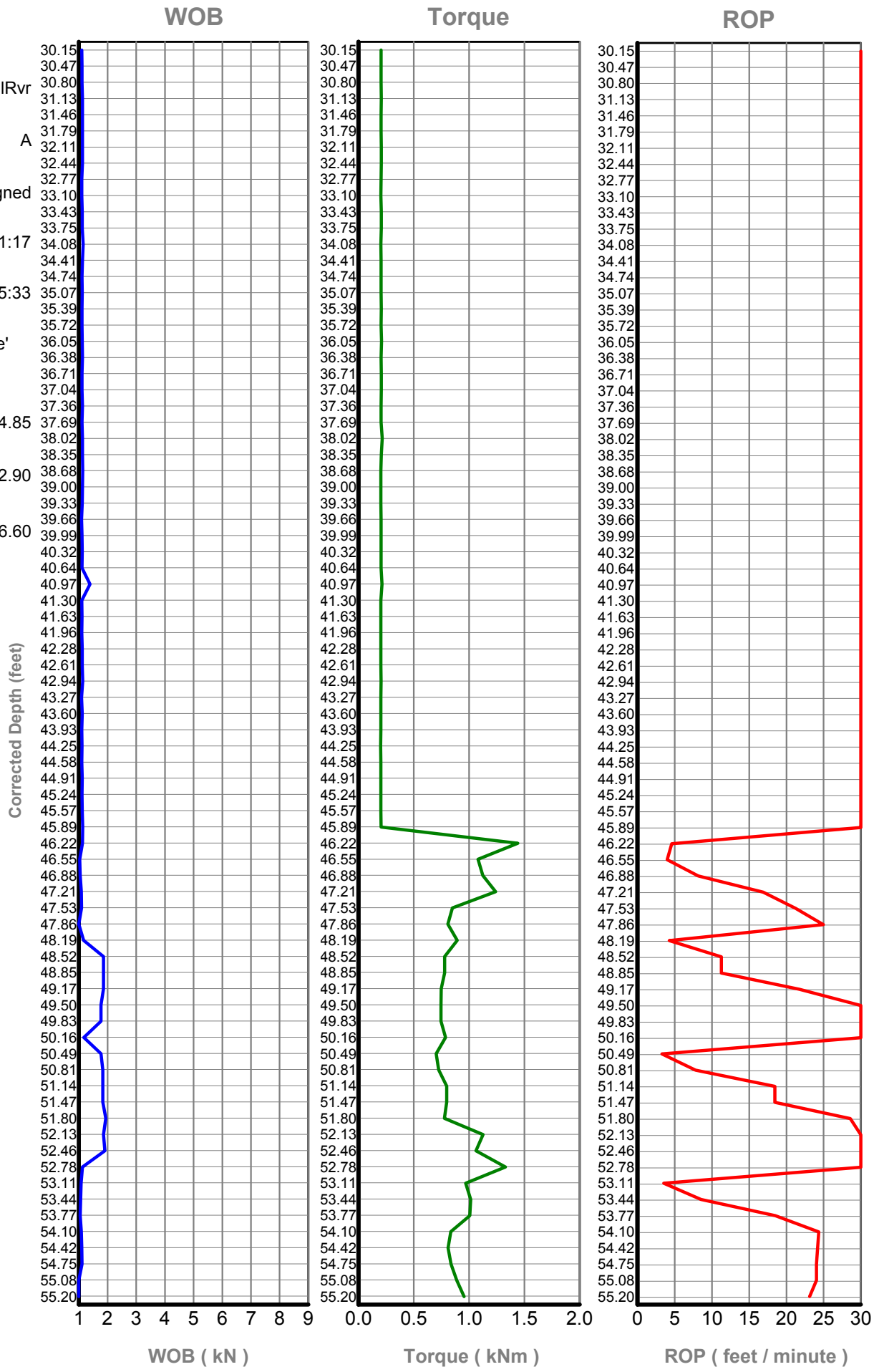
**End Date:**
4/30/2015 22:45:33

**Operator Note:**
'6.6 6.5 a Auto Complete'

**Northing:**
360,284.85

**Easting:**
242,752.90

**Tide (feet):**
6.60



## Hole: L62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:43:57 | 36.75 | 30.15 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:43:57 | 37.07 | 30.47 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:43:57 | 37.40 | 30.80 | 1,148 | 0.31 | 0.37 | 62.8 |
| 4/30/2015 22:43:58 | 37.73 | 31.13 | 1,138 | 0.31 | 0.37 | 62.2 |
| 4/30/2015 22:43:58 | 38.06 | 31.46 | 1,138 | 0.31 | 0.37 | 62.2 |
| 4/30/2015 22:43:58 | 38.39 | 31.79 | 1,154 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:43:59 | 38.71 | 32.11 | 1,154 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:43:59 | 39.04 | 32.44 | 1,154 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:43:59 | 39.37 | 32.77 | 1,154 | 0.35 | 0.38 | 63.1 |
| 4/30/2015 22:44:00 | 39.70 | 33.10 | 1,154 | 0.35 | 0.38 | 63.1 |
| 4/30/2015 22:44:00 | 40.03 | 33.43 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:00 | 40.35 | 33.75 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:00 | 40.68 | 34.08 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:44:01 | 41.01 | 34.41 | 1,156 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 22:44:01 | 41.34 | 34.74 | 1,156 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 22:44:01 | 41.67 | 35.07 | 1,156 | 0.32 | 0.37 | 63.2 |
| 4/30/2015 22:44:02 | 41.99 | 35.39 | 1,156 | 0.32 | 0.37 | 63.2 |
| 4/30/2015 22:44:02 | 42.32 | 35.72 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/30/2015 22:44:02 | 42.65 | 36.05 | 1,152 | 0.31 | 0.37 | 63.0 |
| 4/30/2015 22:44:02 | 42.98 | 36.38 | 1,165 | 0.31 | 0.36 | 63.7 |
| 4/30/2015 22:44:03 | 43.31 | 36.71 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:03 | 43.64 | 37.04 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:03 | 43.96 | 37.36 | 1,162 | 0.31 | 0.36 | 63.6 |
| 4/30/2015 22:44:04 | 44.29 | 37.69 | 1,162 | 0.31 | 0.36 | 63.6 |
| 4/30/2015 22:44:04 | 44.62 | 38.02 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 22:44:04 | 44.95 | 38.35 | 1,168 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 22:44:05 | 45.28 | 38.68 | 1,168 | 0.31 | 0.38 | 63.9 |
| 4/30/2015 22:44:05 | 45.60 | 39.00 | 1,159 | 0.31 | 0.36 | 63.4 |
| 4/30/2015 22:44:05 | 45.93 | 39.33 | 1,159 | 0.31 | 0.36 | 63.4 |
| 4/30/2015 22:44:05 | 46.26 | 39.66 | 1,165 | 0.31 | 0.36 | 63.7 |
| 4/30/2015 22:44:06 | 46.59 | 39.99 | 1,155 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:07 | 46.92 | 40.32 | 1,155 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:07 | 47.24 | 40.64 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 22:44:07 | 47.57 | 40.97 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 22:44:07 | 47.90 | 41.30 | 1,162 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:44:08 | 48.23 | 41.63 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:44:08 | 48.56 | 41.96 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:44:08 | 48.88 | 42.28 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 22:44:09 | 49.21 | 42.61 | 1,162 | 0.31 | 0.37 | 63.6 |
| 4/30/2015 22:44:09 | 49.54 | 42.94 | 1,169 | 0.31 | 0.36 | 63.9 |
| 4/30/2015 22:44:09 | 49.87 | 43.27 | 1,169 | 0.31 | 0.36 | 63.9 |
| 4/30/2015 22:44:09 | 50.20 | 43.60 | 1,156 | 0.31 | 0.38 | 63.2 |
| 4/30/2015 22:44:10 | 50.53 | 43.93 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:10 | 50.85 | 44.25 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:10 | 51.18 | 44.58 | 1,146 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 22:44:11 | 51.51 | 44.91 | 1,146 | 0.31 | 0.37 | 62.7 |
| 4/30/2015 22:44:11 | 51.84 | 45.24 | 1,156 | 0.31 | 0.37 | 63.2 |
| 4/30/2015 22:44:11 | 52.17 | 45.57 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:44:12 | 52.49 | 45.89 | 1,153 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:44:12 | 52.82 | 46.22 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 22:44:12 | 53.15 | 46.55 | 1,153 | 0.29 | 0.37 | 63.1 |
| 4/30/2015 22:44:12 | 53.48 | 46.88 | 1,151 | 0.31 | 0.37 | 62.9 |
| 4/30/2015 22:44:13 | 53.81 | 47.21 | 1,151 | 0.31 | 0.37 | 62.9 |
| 4/30/2015 22:44:13 | 54.13 | 47.53 | 1,151 | 0.31 | 0.37 | 62.9 |
| 4/30/2015 22:44:13 | 54.46 | 47.86 | 1,145 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 22:44:14 | 54.79 | 48.19 | 1,145 | 0.31 | 0.37 | 62.6 |
| 4/30/2015 22:44:18 | 55.12 | 48.52 | 0 | 2.86 | 0.40 | 0.0 |
| 4/30/2015 22:44:18 | 55.45 | 48.85 | 77 | 3.75 | 0.43 | 4.2 |
| 4/30/2015 22:44:19 | 55.77 | 49.17 | 160 | 2.67 | 0.40 | 8.7 |
| 4/30/2015 22:44:20 | 56.10 | 49.50 | 301 | 2.61 | 0.40 | 16.5 |
| 4/30/2015 22:44:23 | 56.43 | 49.83 | 26 | 2.94 | 0.41 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:44:24 | 56.76 | 50.16 | 164 | 2.60 | 0.41 | 9.0 |
| 4/30/2015 | 22:44:24 | 57.09 | 50.49 | 293 | 2.74 | 0.42 | 16.0 |
| 4/30/2015 | 22:44:25 | 57.41 | 50.81 | 487 | 2.90 | 0.42 | 26.6 |
| 4/30/2015 | 22:44:26 | 57.74 | 51.14 | 555 | 3.00 | 0.42 | 30.4 |
| 4/30/2015 | 22:44:27 | 58.07 | 51.47 | 454 | 3.15 | 0.43 | 24.8 |
| 4/30/2015 | 22:44:28 | 58.40 | 51.80 | 438 | 3.04 | 0.42 | 23.9 |
| 4/30/2015 | 22:44:29 | 58.73 | 52.13 | 447 | 3.19 | 0.43 | 24.4 |
| 4/30/2015 | 22:44:30 | 59.06 | 52.46 | 427 | 3.52 | 0.44 | 23.3 |
| 4/30/2015 | 22:44:31 | 59.38 | 52.78 | 297 | 3.90 | 0.45 | 16.2 |
| 4/30/2015 | 22:44:32 | 59.71 | 53.11 | 262 | 2.95 | 0.43 | 14.3 |
| 4/30/2015 | 22:44:34 | 60.04 | 53.44 | 273 | 4.91 | 0.44 | 14.9 |
| 4/30/2015 | 22:44:35 | 60.37 | 53.77 | 256 | 3.50 | 0.41 | 14.0 |
| 4/30/2015 | 22:44:37 | 60.70 | 54.10 | 223 | 3.47 | 0.43 | 12.2 |
| 4/30/2015 | 22:44:38 | 61.02 | 54.42 | 241 | 3.83 | 0.43 | 13.2 |
| 4/30/2015 | 22:44:39 | 61.35 | 54.75 | 306 | 3.32 | 0.45 | 16.7 |
| 4/30/2015 | 22:44:40 | 61.49 | 54.89 | 292 | 3.28 | 0.45 | 16.0 |

## L62 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:42:23

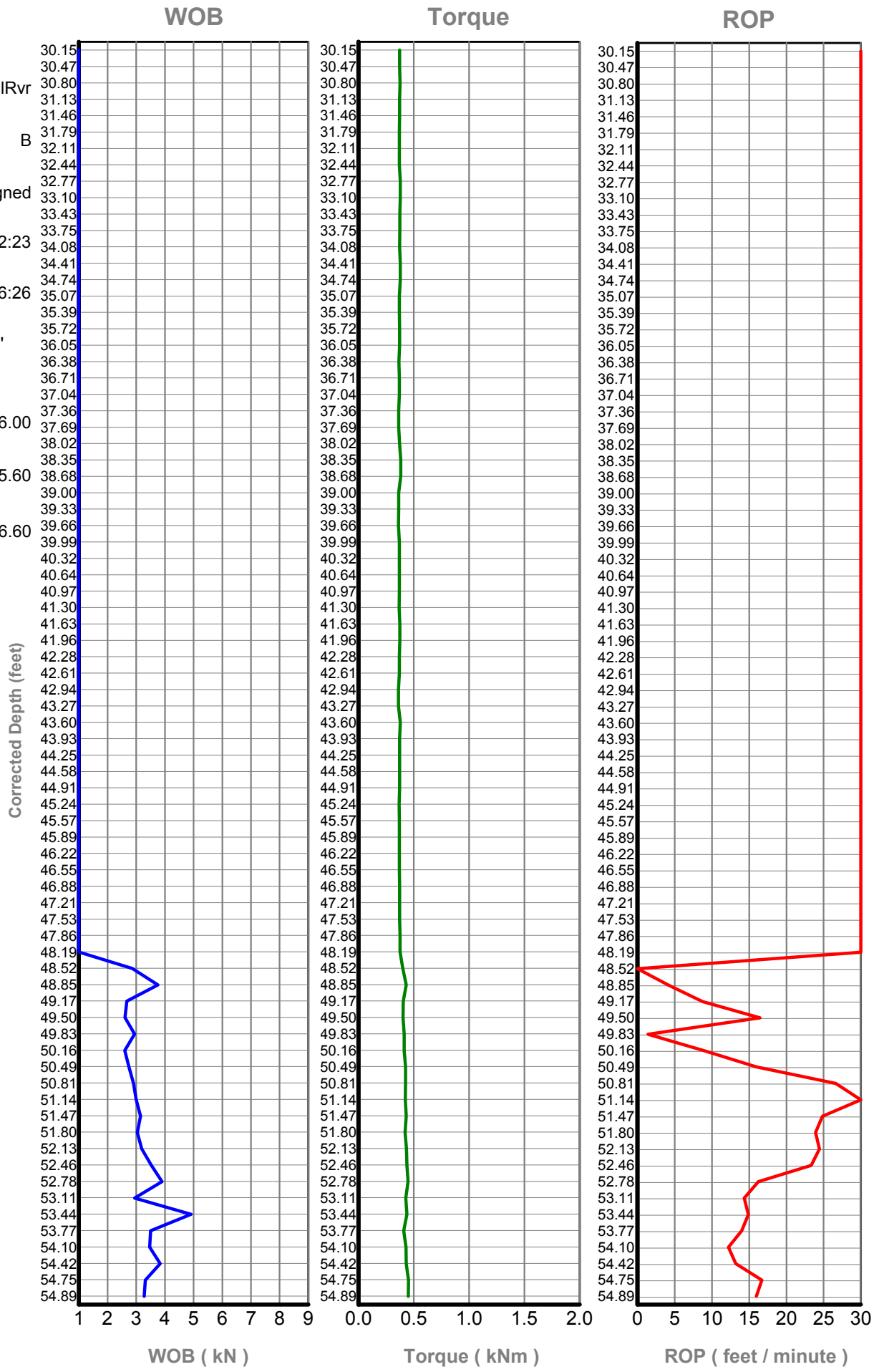
**End Date:**
4/30/2015 22:46:26

**Operator Note:**
'6.6 6.5b Auto Complete'

**Northing:**
360,326.00

**Easting:**
242,815.60

**Tide (feet):**
6.60



## Hole: L63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:42:28 | 36.75 | 30.15 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 22:42:29 | 37.07 | 30.47 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:29 | 37.40 | 30.80 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:29 | 37.73 | 31.13 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:30 | 38.06 | 31.46 | 1,051 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:31 | 38.39 | 31.79 | 1,051 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:31 | 38.71 | 32.11 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:31 | 39.04 | 32.44 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:32 | 39.37 | 32.77 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:32 | 39.70 | 33.10 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:32 | 40.03 | 33.43 | 1,054 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:32 | 40.35 | 33.75 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:33 | 40.68 | 34.08 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:33 | 41.01 | 34.41 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:33 | 41.34 | 34.74 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:34 | 41.67 | 35.07 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:34 | 41.99 | 35.39 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:34 | 42.32 | 35.72 | 1,053 | 1.14 | 0.29 | 57.6 |
| 4/30/2015 22:42:35 | 42.65 | 36.05 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:35 | 42.98 | 36.38 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:35 | 43.31 | 36.71 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:36 | 43.64 | 37.04 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:36 | 43.96 | 37.36 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:36 | 44.29 | 37.69 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:37 | 44.62 | 38.02 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:37 | 44.95 | 38.35 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:37 | 45.28 | 38.68 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:38 | 45.60 | 39.00 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:38 | 45.93 | 39.33 | 1,050 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:42:38 | 46.26 | 39.66 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 22:42:39 | 46.59 | 39.99 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:39 | 46.92 | 40.32 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:39 | 47.24 | 40.64 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 22:42:40 | 47.57 | 40.97 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:40 | 47.90 | 41.30 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:40 | 48.23 | 41.63 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:41 | 48.56 | 41.96 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:41 | 48.88 | 42.28 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:41 | 49.21 | 42.61 | 1,047 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:42 | 49.54 | 42.94 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:43 | 49.87 | 43.27 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:43 | 50.20 | 43.60 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:43 | 50.53 | 43.93 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:44 | 50.85 | 44.25 | 1,044 | 1.14 | 0.29 | 57.1 |
| 4/30/2015 22:42:44 | 51.18 | 44.58 | 1,048 | 1.14 | 0.29 | 57.3 |
| 4/30/2015 22:42:44 | 51.51 | 44.91 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 22:42:45 | 51.84 | 45.24 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 22:42:45 | 52.17 | 45.57 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:45 | 52.49 | 45.89 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:46 | 52.82 | 46.22 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:46 | 53.15 | 46.55 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 22:42:46 | 53.48 | 46.88 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:47 | 53.81 | 47.21 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:47 | 54.13 | 47.53 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:47 | 54.46 | 47.86 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:48 | 54.79 | 48.19 | 1,035 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 22:42:48 | 55.12 | 48.52 | 1,041 | 1.14 | 0.29 | 56.9 |
| 4/30/2015 22:42:48 | 55.45 | 48.85 | 1,038 | 1.14 | 0.29 | 56.8 |
| 4/30/2015 22:42:57 | 55.77 | 49.17 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 22:42:59 | 56.10 | 49.50 | 196 | 1.14 | 0.29 | 10.7 |
| 4/30/2015 22:42:59 | 56.43 | 49.83 | 296 | 1.14 | 0.29 | 16.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:43:00 | 56.76 | 50.16 | 296 | 1.14 | 0.29 | 16.2 |
| 4/30/2015 | 22:43:07 | 57.09 | 50.49 | 6 | 1.14 | 0.29 | 0.3 |
| 4/30/2015 | 22:43:08 | 57.41 | 50.81 | 146 | 1.14 | 0.29 | 8.0 |
| 4/30/2015 | 22:43:08 | 57.74 | 51.14 | 248 | 1.14 | 0.29 | 13.6 |
| 4/30/2015 | 22:43:09 | 58.07 | 51.47 | 248 | 1.14 | 0.29 | 13.6 |
| 4/30/2015 | 22:43:18 | 58.40 | 51.80 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 22:43:19 | 58.73 | 52.13 | 131 | 1.14 | 0.29 | 7.1 |
| 4/30/2015 | 22:43:20 | 59.06 | 52.46 | 258 | 1.14 | 0.29 | 14.1 |
| 4/30/2015 | 22:43:21 | 59.38 | 52.78 | 311 | 1.14 | 0.29 | 17.0 |
| 4/30/2015 | 22:43:21 | 59.71 | 53.11 | 402 | 1.14 | 0.29 | 22.0 |
| 4/30/2015 | 22:43:22 | 60.04 | 53.44 | 472 | 1.14 | 0.29 | 25.8 |
| 4/30/2015 | 22:43:28 | 60.37 | 53.77 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 22:43:30 | 60.70 | 54.10 | 96 | 1.14 | 0.29 | 5.2 |
| 4/30/2015 | 22:43:31 | 61.02 | 54.42 | 286 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 | 22:43:33 | 61.35 | 54.75 | 174 | 1.14 | 0.29 | 9.5 |
| 4/30/2015 | 22:43:35 | 61.52 | 54.92 | 127 | 1.14 | 0.29 | 6.9 |

## L63 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
4/30/2015 22:41:14

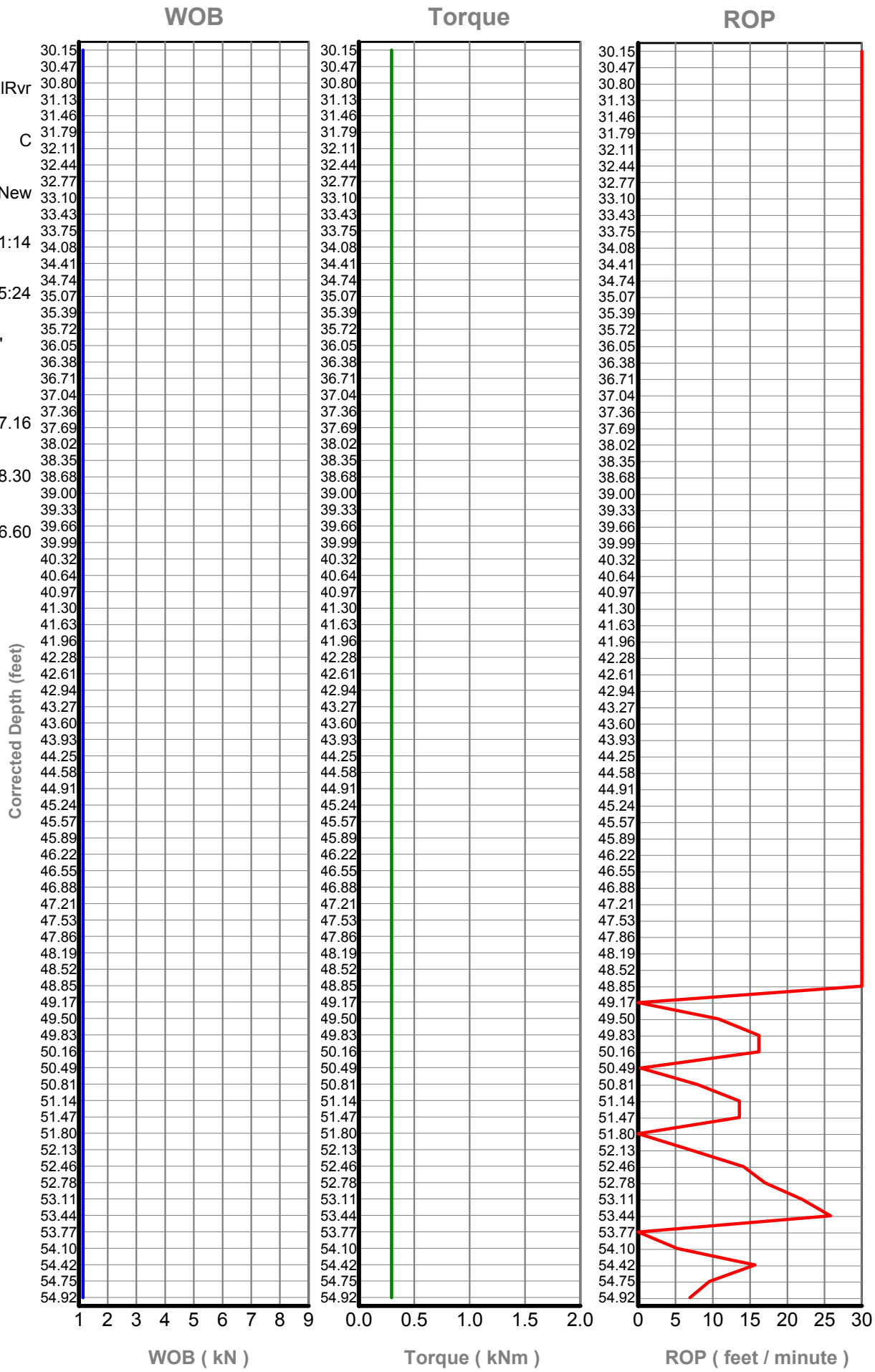
**End Date:**
4/30/2015 22:45:24

**Operator Note:**
'6.6 6.5c Auto Complete'

**Northing:**
360,367.16

**Easting:**
242,878.30

**Tide (feet):**
6.60



## Hole: L64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:53:35 | 34.78 | 30.18 | 1,255 | 2.03 | 0.26 | 68.6 |
| 5/1/2015 20:53:35 | 35.11 | 30.51 | 1,255 | 2.02 | 0.27 | 68.6 |
| 5/1/2015 20:53:35 | 35.43 | 30.83 | 1,255 | 2.02 | 0.27 | 68.6 |
| 5/1/2015 20:53:35 | 35.76 | 31.16 | 1,234 | 2.03 | 0.26 | 67.5 |
| 5/1/2015 20:53:36 | 36.09 | 31.49 | 1,234 | 2.02 | 0.26 | 67.5 |
| 5/1/2015 20:53:36 | 36.42 | 31.82 | 1,234 | 2.02 | 0.26 | 67.5 |
| 5/1/2015 20:53:36 | 36.75 | 32.15 | 1,237 | 2.03 | 0.26 | 67.7 |
| 5/1/2015 20:53:37 | 37.07 | 32.47 | 1,237 | 2.03 | 0.26 | 67.7 |
| 5/1/2015 20:53:37 | 37.40 | 32.80 | 1,237 | 2.02 | 0.26 | 67.7 |
| 5/1/2015 20:53:37 | 37.73 | 33.13 | 1,237 | 2.02 | 0.26 | 67.7 |
| 5/1/2015 20:53:37 | 38.06 | 33.46 | 1,238 | 2.03 | 0.26 | 67.7 |
| 5/1/2015 20:53:38 | 38.39 | 33.79 | 1,238 | 2.03 | 0.26 | 67.7 |
| 5/1/2015 20:53:38 | 38.71 | 34.11 | 1,257 | 2.02 | 0.26 | 68.7 |
| 5/1/2015 20:53:39 | 39.04 | 34.44 | 1,257 | 2.02 | 0.26 | 68.7 |
| 5/1/2015 20:53:38 | 39.37 | 34.77 | 1,226 | 2.03 | 0.26 | 67.0 |
| 5/1/2015 20:53:39 | 39.70 | 35.10 | 1,226 | 2.02 | 0.26 | 67.0 |
| 5/1/2015 20:53:39 | 40.03 | 35.43 | 1,226 | 2.02 | 0.26 | 67.0 |
| 5/1/2015 20:53:39 | 40.35 | 35.75 | 1,265 | 2.02 | 0.25 | 69.1 |
| 5/1/2015 20:53:40 | 40.68 | 36.08 | 1,265 | 2.02 | 0.25 | 69.1 |
| 5/1/2015 20:53:40 | 41.01 | 36.41 | 1,267 | 2.03 | 0.26 | 69.3 |
| 5/1/2015 20:53:41 | 41.34 | 36.74 | 1,267 | 2.03 | 0.26 | 69.3 |
| 5/1/2015 20:53:41 | 41.67 | 37.07 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:41 | 41.99 | 37.39 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:41 | 42.32 | 37.72 | 1,239 | 2.03 | 0.26 | 67.7 |
| 5/1/2015 20:53:42 | 42.65 | 38.05 | 1,251 | 2.00 | 0.26 | 68.4 |
| 5/1/2015 20:53:42 | 42.98 | 38.38 | 1,251 | 2.00 | 0.26 | 68.4 |
| 5/1/2015 20:53:42 | 43.31 | 38.71 | 1,240 | 2.04 | 0.26 | 67.8 |
| 5/1/2015 20:53:43 | 43.64 | 39.04 | 1,240 | 2.04 | 0.26 | 67.8 |
| 5/1/2015 20:53:43 | 43.96 | 39.36 | 1,253 | 2.01 | 0.26 | 68.5 |
| 5/1/2015 20:53:43 | 44.29 | 39.69 | 1,253 | 2.01 | 0.26 | 68.5 |
| 5/1/2015 20:53:43 | 44.62 | 40.02 | 1,242 | 2.03 | 0.26 | 67.9 |
| 5/1/2015 20:53:44 | 44.95 | 40.35 | 1,242 | 2.03 | 0.26 | 67.9 |
| 5/1/2015 20:53:44 | 45.28 | 40.68 | 1,242 | 2.04 | 0.26 | 67.9 |
| 5/1/2015 20:53:44 | 45.60 | 41.00 | 1,242 | 2.04 | 0.26 | 67.9 |
| 5/1/2015 20:53:44 | 45.93 | 41.33 | 1,242 | 2.06 | 0.26 | 67.9 |
| 5/1/2015 20:53:45 | 46.26 | 41.66 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:45 | 46.59 | 41.99 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:45 | 46.92 | 42.32 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:46 | 47.24 | 42.64 | 1,253 | 2.03 | 0.26 | 68.5 |
| 5/1/2015 20:53:46 | 47.57 | 42.97 | 1,263 | 2.03 | 0.26 | 69.1 |
| 5/1/2015 20:53:46 | 47.90 | 43.30 | 1,263 | 2.03 | 0.26 | 69.1 |
| 5/1/2015 20:53:46 | 48.23 | 43.63 | 1,248 | 2.06 | 0.26 | 68.2 |
| 5/1/2015 20:53:47 | 48.56 | 43.96 | 1,248 | 2.06 | 0.26 | 68.2 |
| 5/1/2015 20:53:47 | 48.88 | 44.28 | 1,261 | 2.03 | 0.26 | 69.0 |
| 5/1/2015 20:53:47 | 49.21 | 44.61 | 1,261 | 2.03 | 0.26 | 69.0 |
| 5/1/2015 20:53:47 | 49.54 | 44.94 | 1,262 | 2.01 | 0.26 | 69.0 |
| 5/1/2015 20:53:48 | 49.87 | 45.27 | 1,262 | 2.00 | 0.26 | 69.0 |
| 5/1/2015 20:53:48 | 50.20 | 45.60 | 1,262 | 2.00 | 0.26 | 69.0 |
| 5/1/2015 20:53:48 | 50.53 | 45.93 | 1,247 | 1.90 | 0.26 | 68.2 |
| 5/1/2015 20:53:49 | 50.85 | 46.25 | 1,247 | 1.90 | 0.26 | 68.2 |
| 5/1/2015 20:53:49 | 51.18 | 46.58 | 1,246 | 1.92 | 0.26 | 68.1 |
| 5/1/2015 20:53:50 | 51.51 | 46.91 | 1,246 | 1.92 | 0.26 | 68.1 |
| 5/1/2015 20:53:49 | 51.84 | 47.24 | 1,218 | 1.93 | 0.26 | 66.6 |
| 5/1/2015 20:53:50 | 52.17 | 47.57 | 1,218 | 1.93 | 0.26 | 66.6 |
| 5/1/2015 20:54:19 | 52.49 | 47.89 | 0 | 1.25 | 1.11 | 0.0 |
| 5/1/2015 20:54:19 | 52.82 | 48.22 | 77 | 1.23 | 1.06 | 4.2 |
| 5/1/2015 20:54:21 | 53.15 | 48.55 | 204 | 1.18 | 1.26 | 11.2 |
| 5/1/2015 20:54:23 | 53.48 | 48.88 | 267 | 1.19 | 0.95 | 14.6 |
| 5/1/2015 20:54:24 | 53.81 | 49.21 | 276 | 1.19 | 1.53 | 15.1 |
| 5/1/2015 20:54:25 | 54.13 | 49.53 | 312 | 1.21 | 1.05 | 17.1 |
| 5/1/2015 20:54:30 | 54.46 | 49.86 | 14 | 1.19 | 1.38 | 0.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 20:54:35 | 54.79 | 50.19 | 26 | 1.19 | 1.16 | 1.4 |
| 5/1/2015 | 20:54:38 | 55.12 | 50.52 | 116 | 1.27 | 1.22 | 6.3 |
| 5/1/2015 | 20:54:42 | 55.45 | 50.85 | 75 | 1.19 | 1.10 | 4.1 |
| 5/1/2015 | 20:54:45 | 55.77 | 51.17 | 129 | 1.81 | 0.82 | 7.0 |
| 5/1/2015 | 20:54:45 | 56.10 | 51.50 | 282 | 1.93 | 0.86 | 15.4 |
| 5/1/2015 | 20:54:46 | 56.43 | 51.83 | 282 | 1.93 | 0.86 | 15.4 |
| 5/1/2015 | 20:54:46 | 56.76 | 52.16 | 438 | 1.84 | 0.89 | 23.9 |
| 5/1/2015 | 20:54:46 | 57.09 | 52.49 | 589 | 1.97 | 0.91 | 32.2 |
| 5/1/2015 | 20:54:47 | 57.41 | 52.81 | 717 | 1.13 | 0.92 | 39.2 |
| 5/1/2015 | 20:54:49 | 57.74 | 53.14 | 197 | 1.17 | 0.96 | 10.8 |
| 5/1/2015 | 20:54:51 | 58.07 | 53.47 | 143 | 1.14 | 0.92 | 7.8 |
| 5/1/2015 | 20:54:58 | 58.40 | 53.80 | 78 | 1.12 | 0.94 | 4.3 |
| 5/1/2015 | 20:54:59 | 58.73 | 54.13 | 169 | 1.12 | 0.89 | 9.3 |
| 5/1/2015 | 20:55:00 | 59.06 | 54.46 | 230 | 1.15 | 0.94 | 12.6 |
| 5/1/2015 | 20:55:02 | 59.38 | 54.78 | 234 | 1.19 | 1.00 | 12.8 |

## L64 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 20:50:32

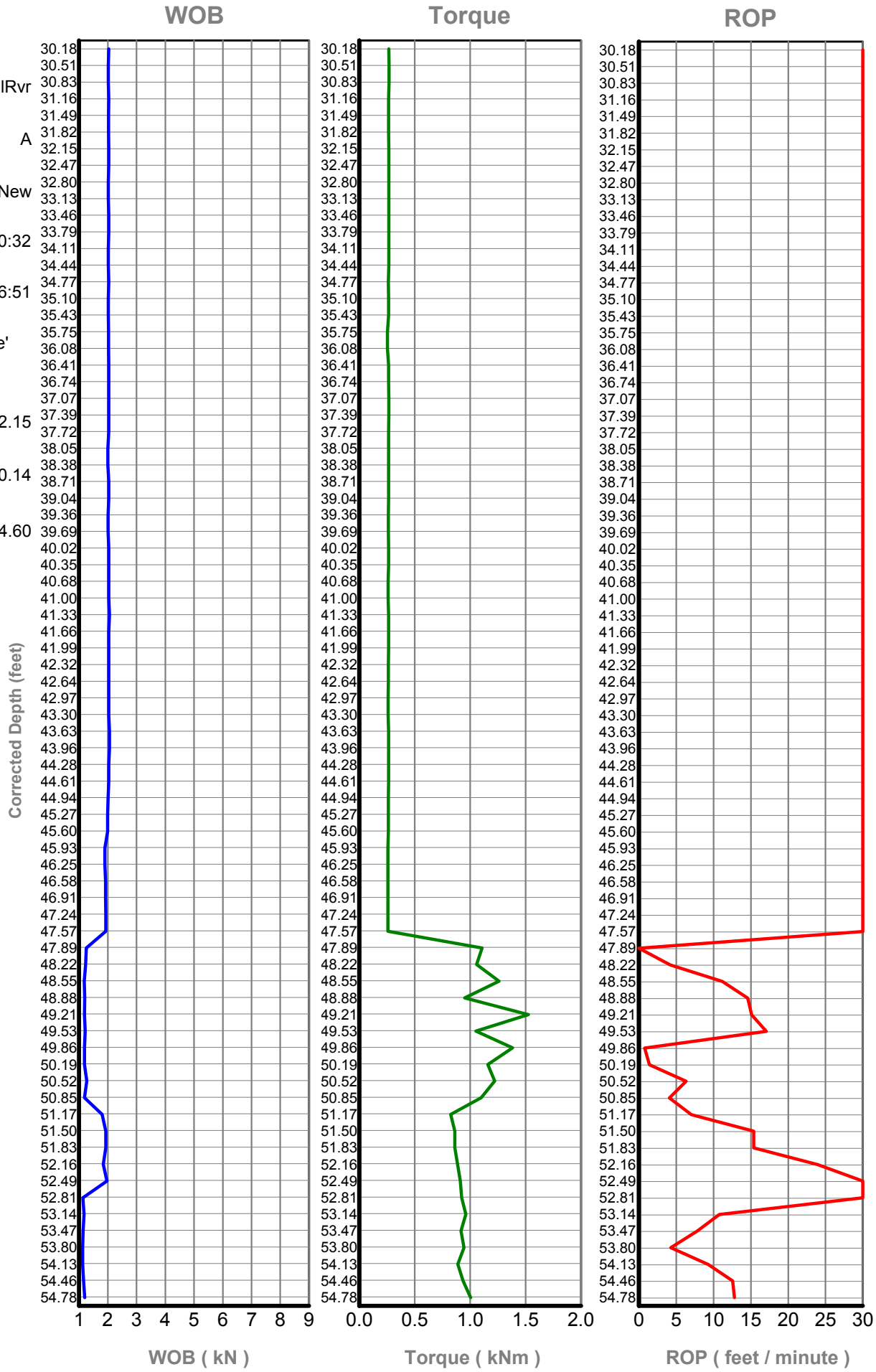
**End Date:**
5/1/2015 20:56:51

**Operator Note:**
'4.6 4.4 a Auto Complete'

**Northing:**
359,512.15

**Easting:**
241,650.14

**Tide (feet):**
4.60



## Hole: L65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:52:27 | 34.78 | 30.18 | 975 | 0.38 | 0.39 | 53.3 |
| 5/1/2015 20:52:28 | 35.11 | 30.51 | 966 | 0.31 | 0.41 | 52.8 |
| 5/1/2015 20:52:28 | 35.43 | 30.83 | 966 | 0.31 | 0.41 | 52.8 |
| 5/1/2015 20:52:28 | 35.76 | 31.16 | 963 | 0.38 | 0.40 | 52.6 |
| 5/1/2015 20:52:29 | 36.09 | 31.49 | 957 | 0.38 | 0.39 | 52.3 |
| 5/1/2015 20:52:29 | 36.42 | 31.82 | 954 | 0.38 | 0.39 | 52.2 |
| 5/1/2015 20:52:30 | 36.75 | 32.15 | 954 | 0.38 | 0.39 | 52.2 |
| 5/1/2015 20:52:30 | 37.07 | 32.47 | 960 | 0.38 | 0.40 | 52.5 |
| 5/1/2015 20:52:31 | 37.40 | 32.80 | 957 | 0.39 | 0.40 | 52.3 |
| 5/1/2015 20:52:31 | 37.73 | 33.13 | 957 | 0.39 | 0.40 | 52.3 |
| 5/1/2015 20:52:31 | 38.06 | 33.46 | 957 | 0.39 | 0.40 | 52.3 |
| 5/1/2015 20:52:32 | 38.39 | 33.79 | 954 | 0.39 | 0.39 | 52.2 |
| 5/1/2015 20:52:32 | 38.71 | 34.11 | 954 | 0.39 | 0.39 | 52.2 |
| 5/1/2015 20:52:32 | 39.04 | 34.44 | 968 | 0.39 | 0.39 | 53.0 |
| 5/1/2015 20:52:33 | 39.37 | 34.77 | 966 | 0.38 | 0.39 | 52.8 |
| 5/1/2015 20:52:33 | 39.70 | 35.10 | 969 | 0.38 | 0.40 | 53.0 |
| 5/1/2015 20:52:34 | 40.03 | 35.43 | 969 | 0.38 | 0.40 | 53.0 |
| 5/1/2015 20:52:34 | 40.35 | 35.75 | 969 | 0.39 | 0.39 | 53.0 |
| 5/1/2015 20:52:34 | 40.68 | 36.08 | 971 | 0.38 | 0.41 | 53.1 |
| 5/1/2015 20:52:35 | 41.01 | 36.41 | 971 | 0.38 | 0.41 | 53.1 |
| 5/1/2015 20:52:35 | 41.34 | 36.74 | 962 | 0.38 | 0.39 | 52.6 |
| 5/1/2015 20:52:35 | 41.67 | 37.07 | 968 | 0.39 | 0.39 | 53.0 |
| 5/1/2015 20:52:36 | 41.99 | 37.39 | 962 | 0.38 | 0.40 | 52.6 |
| 5/1/2015 20:52:36 | 42.32 | 37.72 | 962 | 0.38 | 0.40 | 52.6 |
| 5/1/2015 20:52:36 | 42.65 | 38.05 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 20:52:37 | 42.98 | 38.38 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 20:52:37 | 43.31 | 38.71 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 20:52:37 | 43.64 | 39.04 | 971 | 0.39 | 0.40 | 53.1 |
| 5/1/2015 20:52:38 | 43.96 | 39.36 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 20:52:38 | 44.29 | 39.69 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 20:52:38 | 44.62 | 40.02 | 980 | 0.38 | 0.40 | 53.6 |
| 5/1/2015 20:52:39 | 44.95 | 40.35 | 971 | 0.38 | 0.39 | 53.1 |
| 5/1/2015 20:52:39 | 45.28 | 40.68 | 971 | 0.38 | 0.40 | 53.1 |
| 5/1/2015 20:52:40 | 45.60 | 41.00 | 971 | 0.38 | 0.40 | 53.1 |
| 5/1/2015 20:52:40 | 45.93 | 41.33 | 971 | 0.39 | 0.40 | 53.1 |
| 5/1/2015 20:52:41 | 46.26 | 41.66 | 971 | 0.38 | 0.40 | 53.1 |
| 5/1/2015 20:52:41 | 46.59 | 41.99 | 971 | 0.38 | 0.40 | 53.1 |
| 5/1/2015 20:52:41 | 46.92 | 42.32 | 968 | 0.38 | 0.39 | 53.0 |
| 5/1/2015 20:52:42 | 47.24 | 42.64 | 968 | 0.38 | 0.40 | 53.0 |
| 5/1/2015 20:52:42 | 47.57 | 42.97 | 968 | 0.38 | 0.38 | 53.0 |
| 5/1/2015 20:52:43 | 47.90 | 43.30 | 968 | 0.38 | 0.38 | 53.0 |
| 5/1/2015 20:52:43 | 48.23 | 43.63 | 977 | 0.38 | 0.39 | 53.4 |
| 5/1/2015 20:52:43 | 48.56 | 43.96 | 971 | 0.38 | 0.39 | 53.1 |
| 5/1/2015 20:52:44 | 48.88 | 44.28 | 971 | 0.38 | 0.39 | 53.1 |
| 5/1/2015 20:52:44 | 49.21 | 44.61 | 974 | 0.38 | 0.39 | 53.3 |
| 5/1/2015 20:52:44 | 49.54 | 44.94 | 977 | 0.38 | 0.41 | 53.4 |
| 5/1/2015 20:52:49 | 49.87 | 45.27 | 26 | 5.12 | 0.47 | 1.4 |
| 5/1/2015 20:52:57 | 50.20 | 45.60 | 101 | 4.23 | 0.47 | 5.5 |
| 5/1/2015 20:53:04 | 50.53 | 45.93 | 40 | 4.25 | 0.47 | 2.2 |
| 5/1/2015 20:53:14 | 50.85 | 46.25 | 40 | 3.51 | 0.47 | 2.2 |
| 5/1/2015 20:53:20 | 51.18 | 46.58 | 58 | 4.26 | 0.47 | 3.2 |
| 5/1/2015 20:53:26 | 51.38 | 46.78 | 41 | 3.58 | 0.47 | 2.2 |

## L65 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 20:50:06

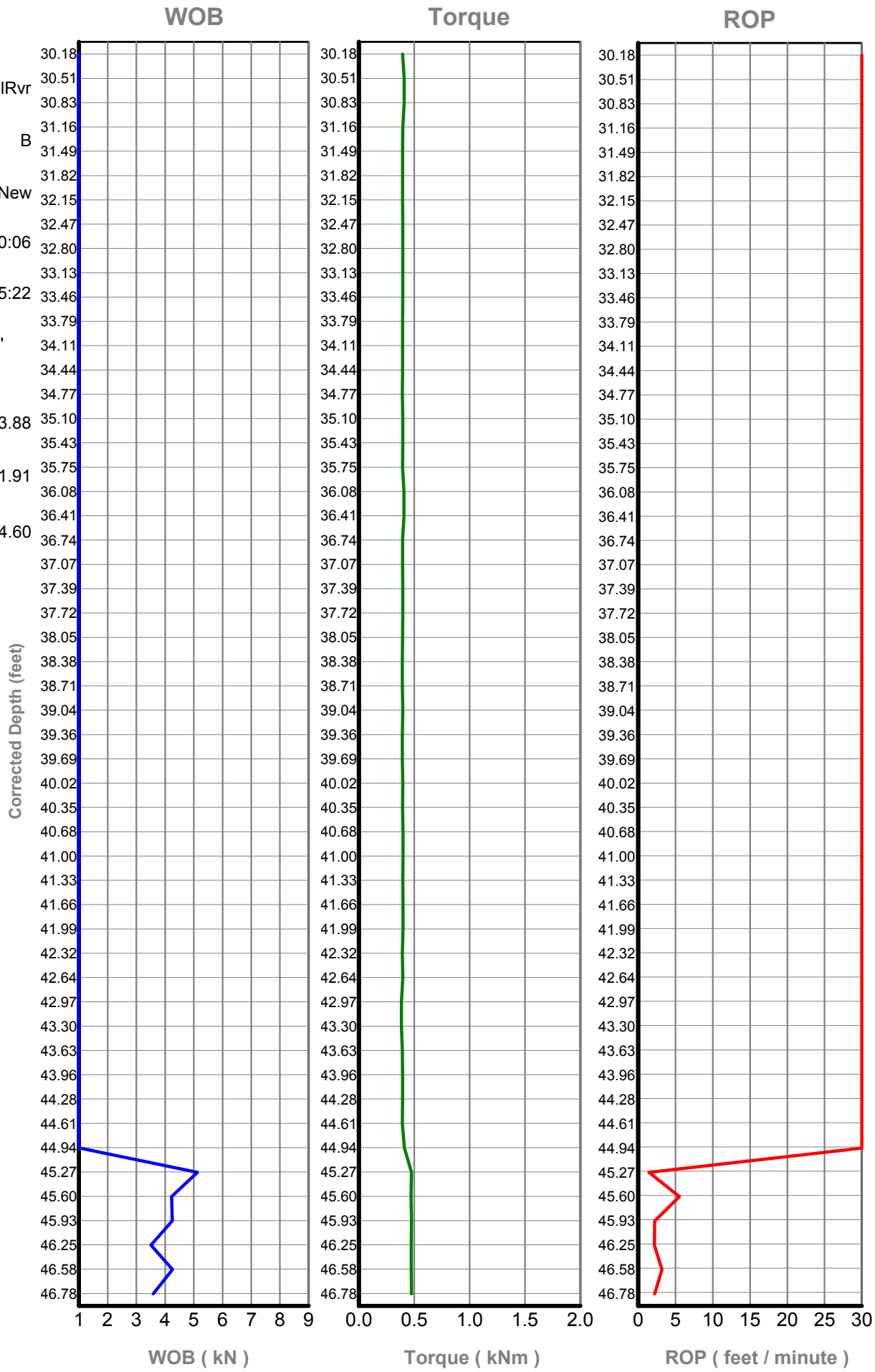
**End Date:**
5/1/2015 20:55:22

**Operator Note:**
'4.6 4.4b Auto Complete'

**Northing:**
359,553.88

**Easting:**
241,711.91

**Tide (feet):**
4.60



## Hole: L66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 20:50:07 | 34.78 | 30.18 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 20:50:06 | 35.11 | 30.51 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:07 | 35.43 | 30.83 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:08 | 35.76 | 31.16 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:08 | 36.09 | 31.49 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 20:50:08 | 36.42 | 31.82 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 20:50:09 | 36.75 | 32.15 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/1/2015 20:50:09 | 37.07 | 32.47 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:09 | 37.40 | 32.80 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 20:50:10 | 37.73 | 33.13 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 20:50:10 | 38.06 | 33.46 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:10 | 38.39 | 33.79 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 20:50:11 | 38.71 | 34.11 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 20:50:11 | 39.04 | 34.44 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:11 | 39.37 | 34.77 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 20:50:12 | 39.70 | 35.10 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 20:50:12 | 40.03 | 35.43 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:12 | 40.35 | 35.75 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:13 | 40.68 | 36.08 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:13 | 41.01 | 36.41 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:13 | 41.34 | 36.74 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:14 | 41.67 | 37.07 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:14 | 41.99 | 37.39 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 20:50:14 | 42.32 | 37.72 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 20:50:15 | 42.65 | 38.05 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 20:50:15 | 42.98 | 38.38 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:15 | 43.31 | 38.71 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:15 | 43.64 | 39.04 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 20:50:16 | 43.96 | 39.36 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:16 | 44.29 | 39.69 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:16 | 44.62 | 40.02 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 20:50:17 | 44.95 | 40.35 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 20:50:17 | 45.28 | 40.68 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 20:50:17 | 45.60 | 41.00 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:18 | 45.93 | 41.33 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:18 | 46.26 | 41.66 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:19 | 46.59 | 41.99 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:19 | 46.92 | 42.32 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:20 | 47.24 | 42.64 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:20 | 47.57 | 42.97 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 20:50:20 | 47.90 | 43.30 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:21 | 48.23 | 43.63 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:21 | 48.56 | 43.96 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 20:50:21 | 48.88 | 44.28 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:22 | 49.21 | 44.61 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 20:50:22 | 49.54 | 44.94 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 20:50:22 | 49.87 | 45.27 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 20:50:33 | 50.20 | 45.60 | 118 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 20:50:36 | 50.53 | 45.93 | 111 | 1.14 | 0.29 | 6.0 |
| 5/1/2015 20:50:39 | 50.85 | 46.25 | 119 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 20:50:43 | 51.18 | 46.58 | 98 | 1.14 | 0.29 | 5.4 |
| 5/1/2015 20:50:47 | 51.51 | 46.91 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 20:50:51 | 51.84 | 47.24 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 20:50:54 | 52.17 | 47.57 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 20:50:58 | 52.49 | 47.89 | 81 | 1.14 | 0.29 | 4.4 |
| 5/1/2015 20:51:03 | 52.82 | 48.22 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 20:51:08 | 53.15 | 48.55 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 20:51:12 | 53.48 | 48.88 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 20:51:19 | 53.81 | 49.21 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 20:51:26 | 54.13 | 49.53 | 45 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 20:51:37 | 54.46 | 49.86 | 32 | 1.14 | 0.29 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 20:51:42 | 54.62 | 50.02 | 32 | 1.14 | 0.29 | 1.7 | |

## L66 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 20:48:55

**End Date:**
5/1/2015 20:53:01

**Operator Note:**
'4.6 4.4 c Auto Complete'

**Northing:**
359,595.61

**Easting:**
241,774.22

**Tide (feet):**
4.60



## Hole: L67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:11:49 | 32.81 | 30.21 | 934 | 1.11 | 0.15 | 51.1 |
| 5/1/2015 16:11:49 | 33.14 | 30.54 | 931 | 1.12 | 0.14 | 50.9 |
| 5/1/2015 16:11:50 | 33.46 | 30.86 | 931 | 1.12 | 0.14 | 50.9 |
| 5/1/2015 16:11:50 | 33.79 | 31.19 | 931 | 1.12 | 0.14 | 50.9 |
| 5/1/2015 16:11:50 | 34.12 | 31.52 | 931 | 1.11 | 0.14 | 50.9 |
| 5/1/2015 16:11:51 | 34.45 | 31.85 | 934 | 1.13 | 0.14 | 51.1 |
| 5/1/2015 16:11:51 | 34.78 | 32.18 | 928 | 1.26 | 0.14 | 50.7 |
| 5/1/2015 16:11:52 | 35.11 | 32.51 | 928 | 1.26 | 0.14 | 50.7 |
| 5/1/2015 16:11:52 | 35.43 | 32.83 | 928 | 1.12 | 0.14 | 50.7 |
| 5/1/2015 16:11:52 | 35.76 | 33.16 | 920 | 1.13 | 0.15 | 50.3 |
| 5/1/2015 16:11:53 | 36.09 | 33.49 | 931 | 1.12 | 0.15 | 50.9 |
| 5/1/2015 16:11:53 | 36.42 | 33.82 | 931 | 1.12 | 0.15 | 50.9 |
| 5/1/2015 16:11:53 | 36.75 | 34.15 | 931 | 1.13 | 0.15 | 50.9 |
| 5/1/2015 16:11:54 | 37.07 | 34.47 | 931 | 1.13 | 0.15 | 50.9 |
| 5/1/2015 16:11:54 | 37.40 | 34.80 | 931 | 1.13 | 0.15 | 50.9 |
| 5/1/2015 16:11:54 | 37.73 | 35.13 | 931 | 1.12 | 0.15 | 50.9 |
| 5/1/2015 16:11:55 | 38.06 | 35.46 | 937 | 1.11 | 0.15 | 51.2 |
| 5/1/2015 16:11:55 | 38.39 | 35.79 | 928 | 1.11 | 0.15 | 50.8 |
| 5/1/2015 16:11:56 | 38.71 | 36.11 | 928 | 1.11 | 0.15 | 50.8 |
| 5/1/2015 16:11:56 | 39.04 | 36.44 | 931 | 1.13 | 0.14 | 50.9 |
| 5/1/2015 16:11:56 | 39.37 | 36.77 | 925 | 1.13 | 0.15 | 50.6 |
| 5/1/2015 16:11:57 | 39.70 | 37.10 | 934 | 1.13 | 0.15 | 51.1 |
| 5/1/2015 16:11:58 | 40.03 | 37.43 | 934 | 1.13 | 0.15 | 51.1 |
| 5/1/2015 16:11:58 | 40.35 | 37.75 | 931 | 1.13 | 0.15 | 50.9 |
| 5/1/2015 16:11:58 | 40.68 | 38.08 | 933 | 1.13 | 0.14 | 51.0 |
| 5/1/2015 16:11:59 | 41.01 | 38.41 | 923 | 1.14 | 0.15 | 50.5 |
| 5/1/2015 16:11:59 | 41.34 | 38.74 | 923 | 1.14 | 0.15 | 50.5 |
| 5/1/2015 16:11:59 | 41.67 | 39.07 | 934 | 1.12 | 0.15 | 51.1 |
| 5/1/2015 16:12:00 | 41.99 | 39.39 | 923 | 1.17 | 0.14 | 50.5 |
| 5/1/2015 16:12:00 | 42.32 | 39.72 | 923 | 1.11 | 0.14 | 50.5 |
| 5/1/2015 16:12:01 | 42.65 | 40.05 | 923 | 1.11 | 0.14 | 50.5 |
| 5/1/2015 16:12:01 | 42.98 | 40.38 | 917 | 1.12 | 0.14 | 50.2 |
| 5/1/2015 16:12:01 | 43.31 | 40.71 | 928 | 1.13 | 0.14 | 50.7 |
| 5/1/2015 16:12:02 | 43.64 | 41.04 | 917 | 1.11 | 0.14 | 50.1 |
| 5/1/2015 16:12:02 | 43.96 | 41.36 | 917 | 1.11 | 0.14 | 50.1 |
| 5/1/2015 16:12:02 | 44.29 | 41.69 | 925 | 1.11 | 0.14 | 50.6 |
| 5/1/2015 16:12:03 | 44.62 | 42.02 | 922 | 1.12 | 0.14 | 50.4 |
| 5/1/2015 16:12:03 | 44.95 | 42.35 | 927 | 1.12 | 0.14 | 50.7 |
| 5/1/2015 16:12:04 | 45.28 | 42.68 | 927 | 1.12 | 0.14 | 50.7 |
| 5/1/2015 16:12:04 | 45.60 | 43.00 | 922 | 1.13 | 0.14 | 50.4 |
| 5/1/2015 16:12:04 | 45.93 | 43.33 | 922 | 1.13 | 0.14 | 50.4 |
| 5/1/2015 16:12:05 | 46.26 | 43.66 | 922 | 1.13 | 0.14 | 50.4 |
| 5/1/2015 16:12:05 | 46.59 | 43.99 | 909 | 1.11 | 0.14 | 49.7 |
| 5/1/2015 16:12:05 | 46.92 | 44.32 | 909 | 1.13 | 0.14 | 49.7 |
| 5/1/2015 16:12:17 | 47.24 | 44.64 | 3 | 1.35 | 0.86 | 0.1 |
| 5/1/2015 16:12:20 | 47.57 | 44.97 | 83 | 1.19 | 1.28 | 4.5 |
| 5/1/2015 16:12:24 | 47.90 | 45.30 | 66 | 1.01 | 1.64 | 3.6 |
| 5/1/2015 16:12:30 | 48.23 | 45.63 | 62 | 1.09 | 1.49 | 3.4 |
| 5/1/2015 16:12:39 | 48.56 | 45.96 | 37 | 1.06 | 1.35 | 2.0 |
| 5/1/2015 16:12:46 | 48.88 | 46.28 | 53 | 1.07 | 1.31 | 2.9 |
| 5/1/2015 16:12:50 | 49.21 | 46.61 | 85 | 1.02 | 1.35 | 4.7 |
| 5/1/2015 16:12:54 | 49.54 | 46.94 | 102 | 1.07 | 1.47 | 5.6 |
| 5/1/2015 16:12:57 | 49.87 | 47.27 | 115 | 1.08 | 1.49 | 6.3 |
| 5/1/2015 16:12:59 | 50.20 | 47.60 | 132 | 1.15 | 1.44 | 7.2 |
| 5/1/2015 16:13:02 | 50.53 | 47.93 | 146 | 1.10 | 1.32 | 8.0 |
| 5/1/2015 16:13:05 | 50.85 | 48.25 | 116 | 1.02 | 1.32 | 6.3 |
| 5/1/2015 16:13:10 | 51.18 | 48.58 | 69 | 1.02 | 1.45 | 3.8 |
| 5/1/2015 16:13:16 | 51.51 | 48.91 | 52 | 1.10 | 1.34 | 2.8 |
| 5/1/2015 16:13:22 | 51.84 | 49.24 | 54 | 1.11 | 1.25 | 3.0 |
| 5/1/2015 16:13:27 | 52.17 | 49.57 | 74 | 1.09 | 1.30 | 4.1 |
| 5/1/2015 16:13:31 | 52.49 | 49.89 | 106 | 0.97 | 1.25 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:13:38 | 52.82 | 50.22 | 45 | 1.03 | 1.33 | 2.5 |
| 5/1/2015 | 16:13:46 | 53.15 | 50.55 | 49 | 0.99 | 1.37 | 2.7 |
| 5/1/2015 | 16:13:51 | 53.48 | 50.88 | 62 | 1.08 | 1.26 | 3.4 |
| 5/1/2015 | 16:13:57 | 53.81 | 51.21 | 70 | 1.05 | 1.22 | 3.8 |
| 5/1/2015 | 16:14:05 | 54.13 | 51.53 | 42 | 1.02 | 1.18 | 2.3 |
| 5/1/2015 | 16:14:12 | 54.46 | 51.86 | 49 | 1.06 | 1.13 | 2.7 |
| 5/1/2015 | 16:14:17 | 54.73 | 52.13 | 72 | 0.70 | 1.52 | 3.9 |

## L67 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:10:35

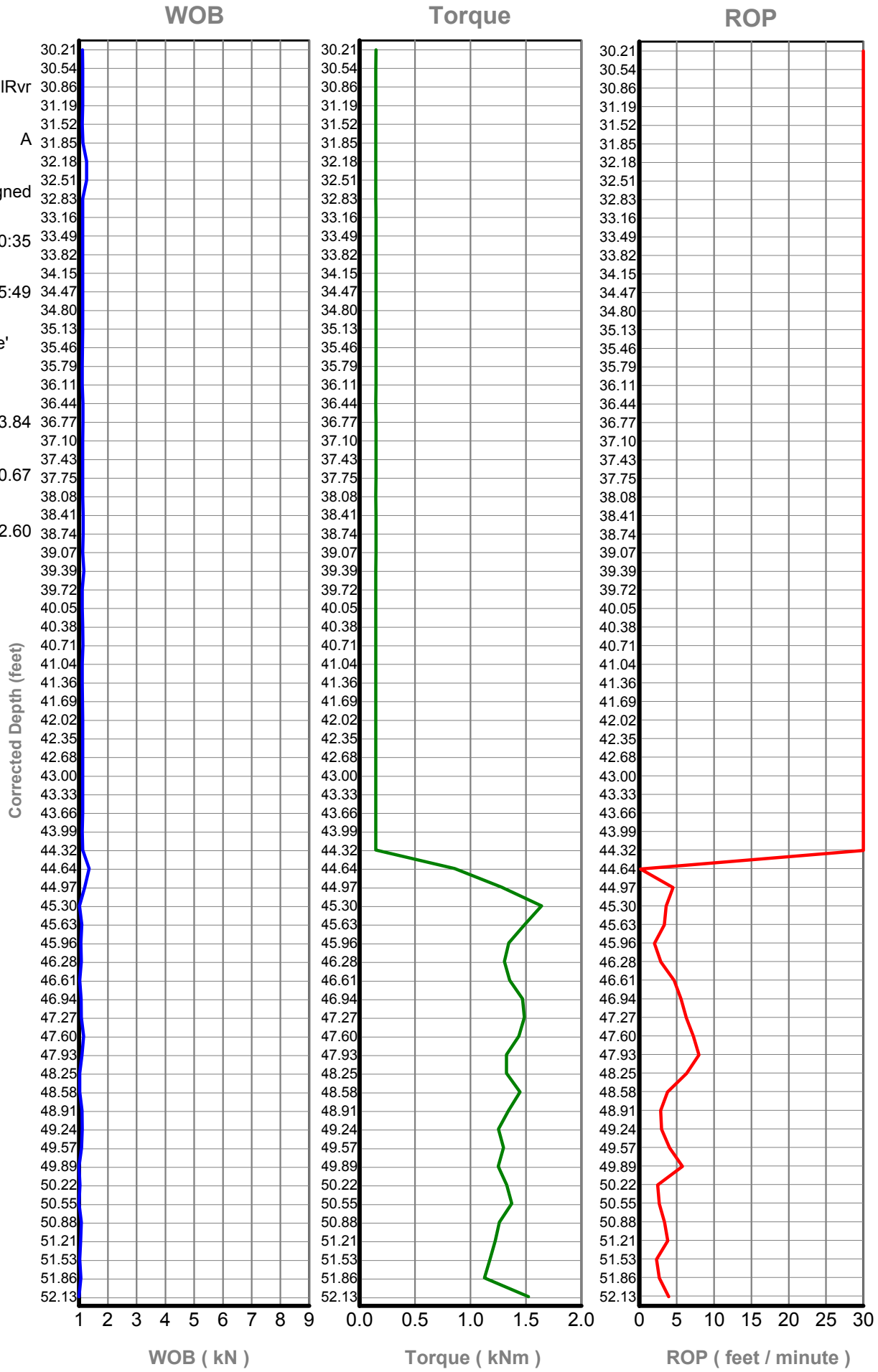
**End Date:**
5/1/2015 16:15:49

**Operator Note:**
'2.6 2.7 a Auto Complete'

**Northing:**
359,623.84

**Easting:**
241,840.67

**Tide (feet):**
2.60



## Hole: L68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:11:49 | 32.81 | 30.21 | 1,207 | 0.29 | 0.38 | 66.0 |
| 5/1/2015 16:11:49 | 33.14 | 30.54 | 1,207 | 0.29 | 0.36 | 66.0 |
| 5/1/2015 16:11:50 | 33.46 | 30.86 | 1,246 | 0.29 | 0.36 | 68.1 |
| 5/1/2015 16:11:51 | 33.79 | 31.19 | 1,246 | 0.29 | 0.36 | 68.1 |
| 5/1/2015 16:11:51 | 34.12 | 31.52 | 1,216 | 0.29 | 0.36 | 66.5 |
| 5/1/2015 16:11:51 | 34.45 | 31.85 | 1,216 | 0.29 | 0.36 | 66.5 |
| 5/1/2015 16:11:51 | 34.78 | 32.18 | 1,212 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:11:52 | 35.11 | 32.51 | 1,212 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:11:52 | 35.43 | 32.83 | 1,212 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:11:52 | 35.76 | 33.16 | 1,212 | 0.29 | 0.37 | 66.3 |
| 5/1/2015 16:11:52 | 36.09 | 33.49 | 1,198 | 0.29 | 0.37 | 65.5 |
| 5/1/2015 16:11:53 | 36.42 | 33.82 | 1,198 | 0.29 | 0.36 | 65.5 |
| 5/1/2015 16:11:53 | 36.75 | 34.15 | 1,198 | 0.29 | 0.36 | 65.5 |
| 5/1/2015 16:11:53 | 37.07 | 34.47 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 16:11:54 | 37.40 | 34.80 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 16:11:54 | 37.73 | 35.13 | 1,204 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:11:54 | 38.06 | 35.46 | 1,204 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:11:54 | 38.39 | 35.79 | 1,218 | 0.29 | 0.36 | 66.6 |
| 5/1/2015 16:11:55 | 38.71 | 36.11 | 1,223 | 0.27 | 0.37 | 66.9 |
| 5/1/2015 16:11:55 | 39.04 | 36.44 | 1,223 | 0.27 | 0.37 | 66.9 |
| 5/1/2015 16:11:55 | 39.37 | 36.77 | 1,231 | 0.29 | 0.38 | 67.3 |
| 5/1/2015 16:11:56 | 39.70 | 37.10 | 1,231 | 0.29 | 0.38 | 67.3 |
| 5/1/2015 16:11:56 | 40.03 | 37.43 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 16:11:56 | 40.35 | 37.75 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 16:11:56 | 40.68 | 38.08 | 1,217 | 0.32 | 0.37 | 66.5 |
| 5/1/2015 16:11:57 | 41.01 | 38.41 | 1,207 | 0.31 | 0.36 | 66.0 |
| 5/1/2015 16:11:57 | 41.34 | 38.74 | 1,207 | 0.31 | 0.36 | 66.0 |
| 5/1/2015 16:11:57 | 41.67 | 39.07 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 16:11:58 | 41.99 | 39.39 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/1/2015 16:11:58 | 42.32 | 39.72 | 1,211 | 0.29 | 0.37 | 66.2 |
| 5/1/2015 16:11:58 | 42.65 | 40.05 | 1,211 | 0.29 | 0.37 | 66.2 |
| 5/1/2015 16:11:58 | 42.98 | 40.38 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 16:11:59 | 43.31 | 40.71 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 16:11:59 | 43.64 | 41.04 | 1,217 | 0.29 | 0.36 | 66.6 |
| 5/1/2015 16:11:59 | 43.96 | 41.36 | 1,226 | 0.29 | 0.37 | 67.0 |
| 5/1/2015 16:12:00 | 44.29 | 41.69 | 1,226 | 0.29 | 0.37 | 67.0 |
| 5/1/2015 16:12:00 | 44.62 | 42.02 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 16:12:01 | 44.95 | 42.35 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 16:12:01 | 45.28 | 42.68 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 16:12:01 | 45.60 | 43.00 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 16:12:01 | 45.93 | 43.33 | 1,215 | 0.29 | 0.35 | 66.5 |
| 5/1/2015 16:12:02 | 46.26 | 43.66 | 1,215 | 0.29 | 0.35 | 66.5 |
| 5/1/2015 16:12:02 | 46.59 | 43.99 | 1,229 | 0.29 | 0.37 | 67.2 |
| 5/1/2015 16:12:02 | 46.92 | 44.32 | 1,226 | 0.29 | 0.36 | 67.0 |
| 5/1/2015 16:12:03 | 47.24 | 44.64 | 1,226 | 0.29 | 0.36 | 67.0 |
| 5/1/2015 16:12:03 | 47.57 | 44.97 | 1,229 | 0.29 | 0.36 | 67.2 |
| 5/1/2015 16:12:03 | 47.90 | 45.30 | 1,229 | 0.29 | 0.36 | 67.2 |
| 5/1/2015 16:12:03 | 48.23 | 45.63 | 1,232 | 0.29 | 0.37 | 67.3 |
| 5/1/2015 16:12:04 | 48.56 | 45.96 | 1,232 | 0.29 | 0.37 | 67.3 |
| 5/1/2015 16:12:04 | 48.88 | 46.28 | 1,234 | 0.26 | 0.43 | 67.5 |
| 5/1/2015 16:12:09 | 49.21 | 46.61 | 0 | 2.76 | 0.42 | 0.0 |
| 5/1/2015 16:12:13 | 49.54 | 46.94 | 205 | 3.56 | 0.46 | 11.2 |
| 5/1/2015 16:12:17 | 49.87 | 47.27 | 96 | 3.06 | 0.45 | 5.3 |
| 5/1/2015 16:12:22 | 50.20 | 47.60 | 72 | 3.45 | 0.47 | 3.9 |
| 5/1/2015 16:12:25 | 50.53 | 47.93 | 110 | 3.81 | 0.46 | 6.0 |
| 5/1/2015 16:12:27 | 50.85 | 48.25 | 139 | 3.43 | 0.45 | 7.6 |
| 5/1/2015 16:12:35 | 51.18 | 48.58 | 112 | 3.57 | 0.46 | 6.1 |
| 5/1/2015 16:12:38 | 51.51 | 48.91 | 122 | 3.56 | 0.46 | 6.7 |
| 5/1/2015 16:12:41 | 51.84 | 49.24 | 112 | 3.58 | 0.46 | 6.1 |
| 5/1/2015 16:12:46 | 52.17 | 49.57 | 81 | 3.44 | 0.46 | 4.4 |
| 5/1/2015 16:12:49 | 52.49 | 49.89 | 98 | 3.54 | 0.46 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:12:51 | 52.82 | 50.22 | 125 | 3.20 | 0.45 | 6.8 |
| 5/1/2015 | 16:12:54 | 53.15 | 50.55 | 183 | 3.95 | 0.46 | 10.0 |
| 5/1/2015 | 16:12:55 | 53.48 | 50.88 | 182 | 3.00 | 0.43 | 9.9 |
| 5/1/2015 | 16:12:57 | 53.81 | 51.21 | 182 | 3.67 | 0.47 | 9.9 |
| 5/1/2015 | 16:13:07 | 54.13 | 51.53 | 66 | 3.43 | 0.46 | 3.6 |
| 5/1/2015 | 16:13:12 | 54.46 | 51.86 | 84 | 3.45 | 0.46 | 4.6 |
| 5/1/2015 | 16:13:19 | 54.79 | 52.19 | 52 | 2.94 | 0.46 | 2.8 |
| 5/1/2015 | 16:13:27 | 55.12 | 52.52 | 46 | 2.78 | 0.46 | 2.5 |
| 5/1/2015 | 16:13:35 | 55.45 | 52.85 | 43 | 2.82 | 0.45 | 2.4 |

## L68 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:10:05

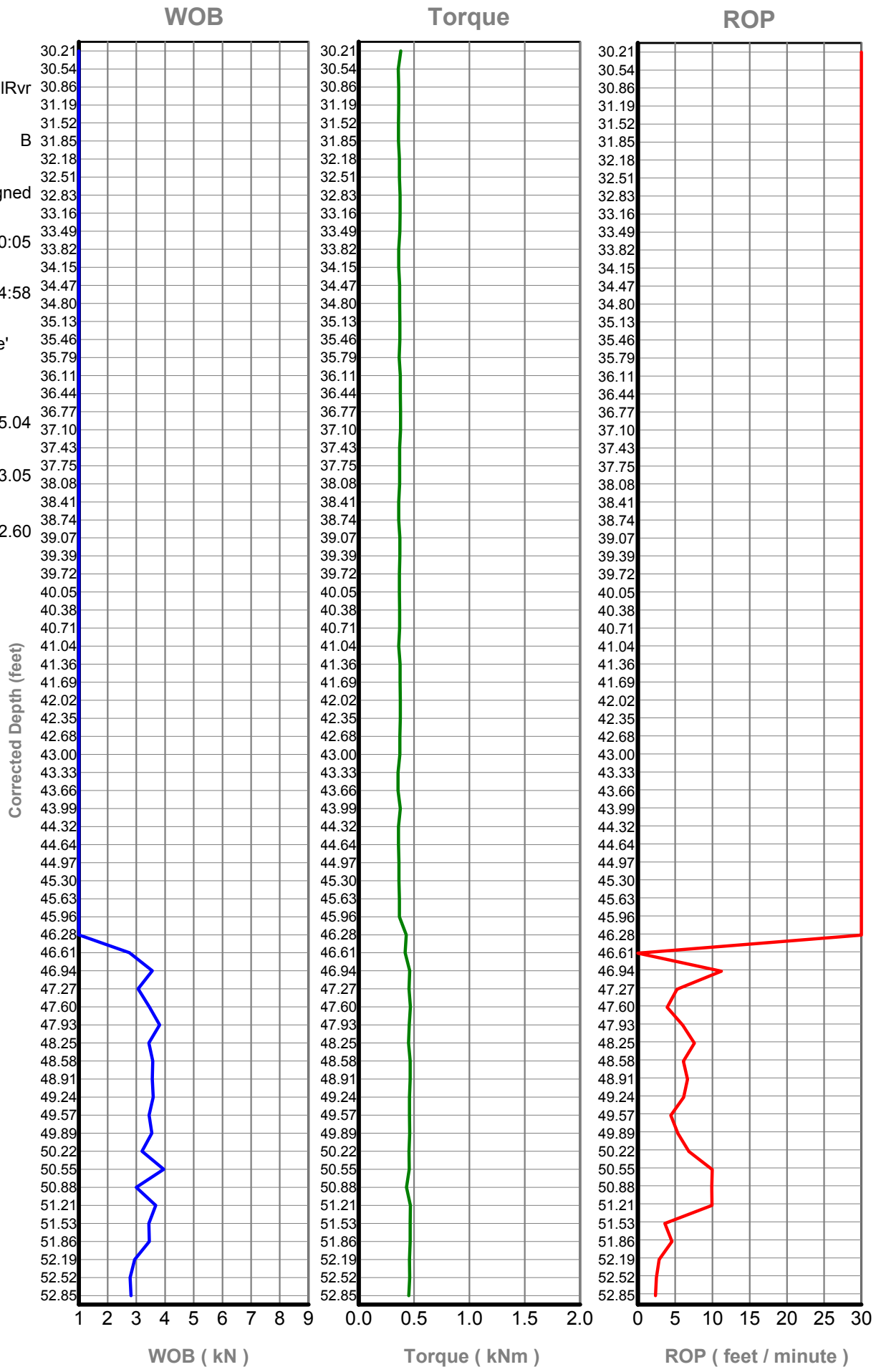
**End Date:**
5/1/2015 16:14:58

**Operator Note:**
'2.6 2.7 b Auto Complete'

**Northing:**
359,665.04

**Easting:**
241,903.05

**Tide (feet):**
2.60



## Hole: L69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:11:07 | 32.81 | 30.21 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 16:11:08 | 33.14 | 30.54 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 16:11:08 | 33.46 | 30.86 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:08 | 33.79 | 31.19 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:08 | 34.12 | 31.52 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 16:11:09 | 34.45 | 31.85 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 16:11:10 | 34.78 | 32.18 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 16:11:10 | 35.11 | 32.51 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 16:11:10 | 35.43 | 32.83 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:11 | 35.76 | 33.16 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:11 | 36.09 | 33.49 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:11 | 36.42 | 33.82 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:11 | 36.75 | 34.15 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 16:11:12 | 37.07 | 34.47 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 16:11:12 | 37.40 | 34.80 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 16:11:12 | 37.73 | 35.13 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 16:11:13 | 38.06 | 35.46 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:13 | 38.39 | 35.79 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:13 | 38.71 | 36.11 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 16:11:14 | 39.04 | 36.44 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 16:11:14 | 39.37 | 36.77 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 16:11:14 | 39.70 | 37.10 | 1,113 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 16:11:15 | 40.03 | 37.43 | 1,113 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 16:11:15 | 40.35 | 37.75 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/1/2015 16:11:15 | 40.68 | 38.08 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/1/2015 16:11:15 | 41.01 | 38.41 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 16:11:16 | 41.34 | 38.74 | 1,118 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 16:11:16 | 41.67 | 39.07 | 1,118 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 16:11:16 | 41.99 | 39.39 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 16:11:17 | 42.32 | 39.72 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 16:11:17 | 42.65 | 40.05 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 16:11:17 | 42.98 | 40.38 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:11:18 | 43.31 | 40.71 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:11:18 | 43.64 | 41.04 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:18 | 43.96 | 41.36 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 16:11:19 | 44.29 | 41.69 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/1/2015 16:11:19 | 44.62 | 42.02 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/1/2015 16:11:19 | 44.95 | 42.35 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:11:20 | 45.28 | 42.68 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:11:20 | 45.60 | 43.00 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:11:20 | 45.93 | 43.33 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 16:11:20 | 46.26 | 43.66 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:21 | 46.59 | 43.99 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:11:22 | 46.92 | 44.32 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 16:11:22 | 47.24 | 44.64 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/1/2015 16:11:22 | 47.57 | 44.97 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:23 | 47.90 | 45.30 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:23 | 48.23 | 45.63 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 16:11:38 | 48.56 | 45.96 | 111 | 1.14 | 0.29 | 6.1 |
| 5/1/2015 16:11:39 | 48.88 | 46.28 | 230 | 1.14 | 0.29 | 12.6 |
| 5/1/2015 16:11:42 | 49.21 | 46.61 | 169 | 1.14 | 0.29 | 9.2 |
| 5/1/2015 16:11:44 | 49.54 | 46.94 | 175 | 1.14 | 0.29 | 9.6 |
| 5/1/2015 16:11:46 | 49.87 | 47.27 | 166 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 16:12:14 | 50.20 | 47.60 | 11 | 1.14 | 0.29 | 0.6 |
| 5/1/2015 16:12:17 | 50.53 | 47.93 | 131 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 16:12:19 | 50.85 | 48.25 | 134 | 1.14 | 0.29 | 7.3 |
| 5/1/2015 16:12:21 | 51.18 | 48.58 | 177 | 1.14 | 0.29 | 9.7 |
| 5/1/2015 16:12:23 | 51.51 | 48.91 | 218 | 1.14 | 0.29 | 11.9 |
| 5/1/2015 16:12:26 | 51.84 | 49.24 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 16:12:32 | 52.17 | 49.57 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 16:12:38 | 52.49 | 49.89 | 79 | 1.14 | 0.29 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:12:42 | 52.82 | 50.22 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 | 16:12:46 | 53.15 | 50.55 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 16:12:50 | 53.48 | 50.88 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 16:12:57 | 53.81 | 51.21 | 67 | 1.14 | 0.29 | 3.7 |

## L69 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 16:10:03

**End Date:**
5/1/2015 16:14:20

**Operator Note:**
'2.6 2.7 c Auto Complete'

**Northing:**
359,706.34

**Easting:**
241,965.88

**Tide (feet):**
2.60



## Hole: L7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:33:16 | 34.12 | 30.22 | 1,143 | 1.80 | 0.25 | 62.5 |
| 5/1/2015 2:33:16 | 34.45 | 30.55 | 1,156 | 1.81 | 0.25 | 63.2 |
| 5/1/2015 2:33:17 | 34.78 | 30.88 | 1,151 | 1.79 | 0.25 | 62.9 |
| 5/1/2015 2:33:17 | 35.11 | 31.21 | 1,151 | 1.79 | 0.25 | 62.9 |
| 5/1/2015 2:33:17 | 35.43 | 31.53 | 1,151 | 1.81 | 0.25 | 62.9 |
| 5/1/2015 2:33:18 | 35.76 | 31.86 | 1,151 | 1.81 | 0.25 | 62.9 |
| 5/1/2015 2:33:18 | 36.09 | 32.19 | 1,151 | 1.79 | 0.25 | 62.9 |
| 5/1/2015 2:33:18 | 36.42 | 32.52 | 1,147 | 1.81 | 0.25 | 62.7 |
| 5/1/2015 2:33:19 | 36.75 | 32.85 | 1,147 | 1.81 | 0.25 | 62.7 |
| 5/1/2015 2:33:19 | 37.07 | 33.17 | 1,148 | 1.80 | 0.25 | 62.8 |
| 5/1/2015 2:33:19 | 37.40 | 33.50 | 1,148 | 1.80 | 0.25 | 62.8 |
| 5/1/2015 2:33:19 | 37.73 | 33.83 | 1,142 | 1.80 | 0.25 | 62.4 |
| 5/1/2015 2:33:20 | 38.06 | 34.16 | 1,145 | 1.79 | 0.25 | 62.6 |
| 5/1/2015 2:33:20 | 38.39 | 34.49 | 1,145 | 1.79 | 0.25 | 62.6 |
| 5/1/2015 2:33:21 | 38.71 | 34.81 | 1,157 | 1.78 | 0.25 | 63.3 |
| 5/1/2015 2:33:21 | 39.04 | 35.14 | 1,157 | 1.78 | 0.25 | 63.3 |
| 5/1/2015 2:33:21 | 39.37 | 35.47 | 1,161 | 1.80 | 0.25 | 63.5 |
| 5/1/2015 2:33:22 | 39.70 | 35.80 | 1,161 | 1.80 | 0.25 | 63.5 |
| 5/1/2015 2:33:22 | 40.03 | 36.13 | 1,154 | 1.79 | 0.25 | 63.1 |
| 5/1/2015 2:33:22 | 40.35 | 36.45 | 1,163 | 1.81 | 0.25 | 63.6 |
| 5/1/2015 2:33:23 | 40.68 | 36.78 | 1,163 | 1.81 | 0.25 | 63.6 |
| 5/1/2015 2:33:23 | 41.01 | 37.11 | 1,163 | 1.78 | 0.25 | 63.6 |
| 5/1/2015 2:33:23 | 41.34 | 37.44 | 1,163 | 1.78 | 0.25 | 63.6 |
| 5/1/2015 2:33:23 | 41.67 | 37.77 | 1,144 | 1.79 | 0.25 | 62.6 |
| 5/1/2015 2:33:24 | 41.99 | 38.09 | 1,148 | 1.81 | 0.25 | 62.8 |
| 5/1/2015 2:33:24 | 42.32 | 38.42 | 1,148 | 1.81 | 0.25 | 62.8 |
| 5/1/2015 2:33:24 | 42.65 | 38.75 | 1,138 | 1.82 | 0.25 | 62.2 |
| 5/1/2015 2:33:25 | 42.98 | 39.08 | 1,138 | 1.82 | 0.25 | 62.2 |
| 5/1/2015 2:33:25 | 43.31 | 39.41 | 1,141 | 1.81 | 0.25 | 62.4 |
| 5/1/2015 2:33:25 | 43.64 | 39.74 | 1,138 | 1.79 | 0.25 | 62.2 |
| 5/1/2015 2:33:26 | 43.96 | 40.06 | 1,138 | 1.79 | 0.25 | 62.2 |
| 5/1/2015 2:33:26 | 44.29 | 40.39 | 1,152 | 1.78 | 0.25 | 63.0 |
| 5/1/2015 2:33:26 | 44.62 | 40.72 | 1,152 | 1.78 | 0.25 | 63.0 |
| 5/1/2015 2:33:26 | 44.95 | 41.05 | 1,145 | 1.80 | 0.25 | 62.6 |
| 5/1/2015 2:33:27 | 45.28 | 41.38 | 1,160 | 1.79 | 0.25 | 63.5 |
| 5/1/2015 2:33:27 | 45.60 | 41.70 | 1,160 | 1.79 | 0.25 | 63.5 |
| 5/1/2015 2:33:27 | 45.93 | 42.03 | 1,152 | 1.81 | 0.25 | 63.0 |
| 5/1/2015 2:33:28 | 46.26 | 42.36 | 1,152 | 1.81 | 0.25 | 63.0 |
| 5/1/2015 2:33:28 | 46.59 | 42.69 | 1,132 | 1.83 | 0.25 | 61.9 |
| 5/1/2015 2:33:28 | 46.92 | 43.02 | 1,132 | 1.81 | 0.25 | 61.9 |
| 5/1/2015 2:33:29 | 47.24 | 43.34 | 1,132 | 1.81 | 0.25 | 61.9 |
| 5/1/2015 2:33:29 | 47.57 | 43.67 | 1,137 | 1.77 | 0.25 | 62.2 |
| 5/1/2015 2:33:29 | 47.90 | 44.00 | 1,137 | 1.77 | 0.25 | 62.2 |
| 5/1/2015 2:33:29 | 48.23 | 44.33 | 1,145 | 1.79 | 0.25 | 62.6 |
| 5/1/2015 2:33:30 | 48.56 | 44.66 | 1,129 | 1.80 | 0.25 | 61.7 |
| 5/1/2015 2:33:30 | 48.88 | 44.98 | 1,129 | 1.80 | 0.25 | 61.7 |
| 5/1/2015 2:33:30 | 49.21 | 45.31 | 1,131 | 1.80 | 0.25 | 61.9 |
| 5/1/2015 2:33:31 | 49.54 | 45.64 | 1,131 | 1.80 | 0.25 | 61.9 |
| 5/1/2015 2:33:31 | 49.87 | 45.97 | 1,154 | 1.81 | 0.25 | 63.1 |
| 5/1/2015 2:33:32 | 50.20 | 46.30 | 1,142 | 1.89 | 0.25 | 62.4 |
| 5/1/2015 2:33:32 | 50.53 | 46.63 | 1,142 | 1.89 | 0.25 | 62.4 |
| 5/1/2015 2:33:53 | 50.85 | 46.95 | 0 | 1.18 | 1.11 | 0.0 |
| 5/1/2015 2:33:55 | 51.18 | 47.28 | 134 | 1.21 | 1.07 | 7.3 |
| 5/1/2015 2:33:57 | 51.51 | 47.61 | 159 | 1.21 | 1.12 | 8.7 |
| 5/1/2015 2:33:59 | 51.84 | 47.94 | 153 | 1.19 | 1.11 | 8.4 |
| 5/1/2015 2:34:02 | 52.17 | 48.27 | 135 | 1.20 | 1.09 | 7.4 |
| 5/1/2015 2:34:14 | 52.49 | 48.59 | 69 | 1.17 | 1.07 | 3.8 |
| 5/1/2015 2:34:16 | 52.82 | 48.92 | 159 | 1.19 | 1.04 | 8.7 |
| 5/1/2015 2:34:19 | 53.15 | 49.25 | 127 | 1.19 | 1.01 | 7.0 |
| 5/1/2015 2:34:21 | 53.48 | 49.58 | 149 | 1.19 | 1.01 | 8.2 |
| 5/1/2015 2:34:24 | 53.81 | 49.91 | 165 | 1.17 | 0.98 | 9.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:34:25 | 54.13 | 50.23 | 170 | 1.88 | 0.97 | 9.3 |
| 5/1/2015 | 2:34:25 | 54.46 | 50.56 | 252 | 1.91 | 1.00 | 13.8 |
| 5/1/2015 | 2:34:26 | 54.79 | 50.89 | 390 | 1.96 | 1.04 | 21.3 |
| 5/1/2015 | 2:34:27 | 55.12 | 51.22 | 463 | 1.95 | 1.05 | 25.3 |
| 5/1/2015 | 2:34:28 | 55.45 | 51.55 | 437 | 1.98 | 1.04 | 23.9 |
| 5/1/2015 | 2:34:29 | 55.77 | 51.87 | 362 | 1.12 | 0.87 | 19.8 |
| 5/1/2015 | 2:34:37 | 56.10 | 52.20 | 78 | 1.18 | 1.05 | 4.2 |
| 5/1/2015 | 2:34:40 | 56.43 | 52.53 | 119 | 1.17 | 1.02 | 6.5 |
| 5/1/2015 | 2:34:48 | 56.76 | 52.86 | 49 | 1.18 | 0.97 | 2.7 |
| 5/1/2015 | 2:34:51 | 57.09 | 53.19 | 110 | 1.19 | 1.03 | 6.0 |
| 5/1/2015 | 2:34:53 | 57.41 | 53.51 | 115 | 1.98 | 0.97 | 6.3 |
| 5/1/2015 | 2:34:54 | 57.74 | 53.84 | 215 | 1.91 | 0.90 | 11.8 |
| 5/1/2015 | 2:34:55 | 58.07 | 54.17 | 300 | 1.95 | 0.89 | 16.4 |
| 5/1/2015 | 2:34:55 | 58.40 | 54.50 | 402 | 1.94 | 0.89 | 22.0 |
| 5/1/2015 | 2:34:56 | 58.73 | 54.83 | 567 | 1.94 | 0.96 | 31.0 |
| 5/1/2015 | 2:34:57 | 59.06 | 55.16 | 552 | 1.81 | 0.92 | 30.2 |
| 5/1/2015 | 2:34:57 | 59.38 | 55.48 | 556 | 1.89 | 0.86 | 30.4 |
| 5/1/2015 | 2:34:58 | 59.66 | 55.76 | 541 | 1.94 | 0.91 | 29.6 |

## L7 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:30:07

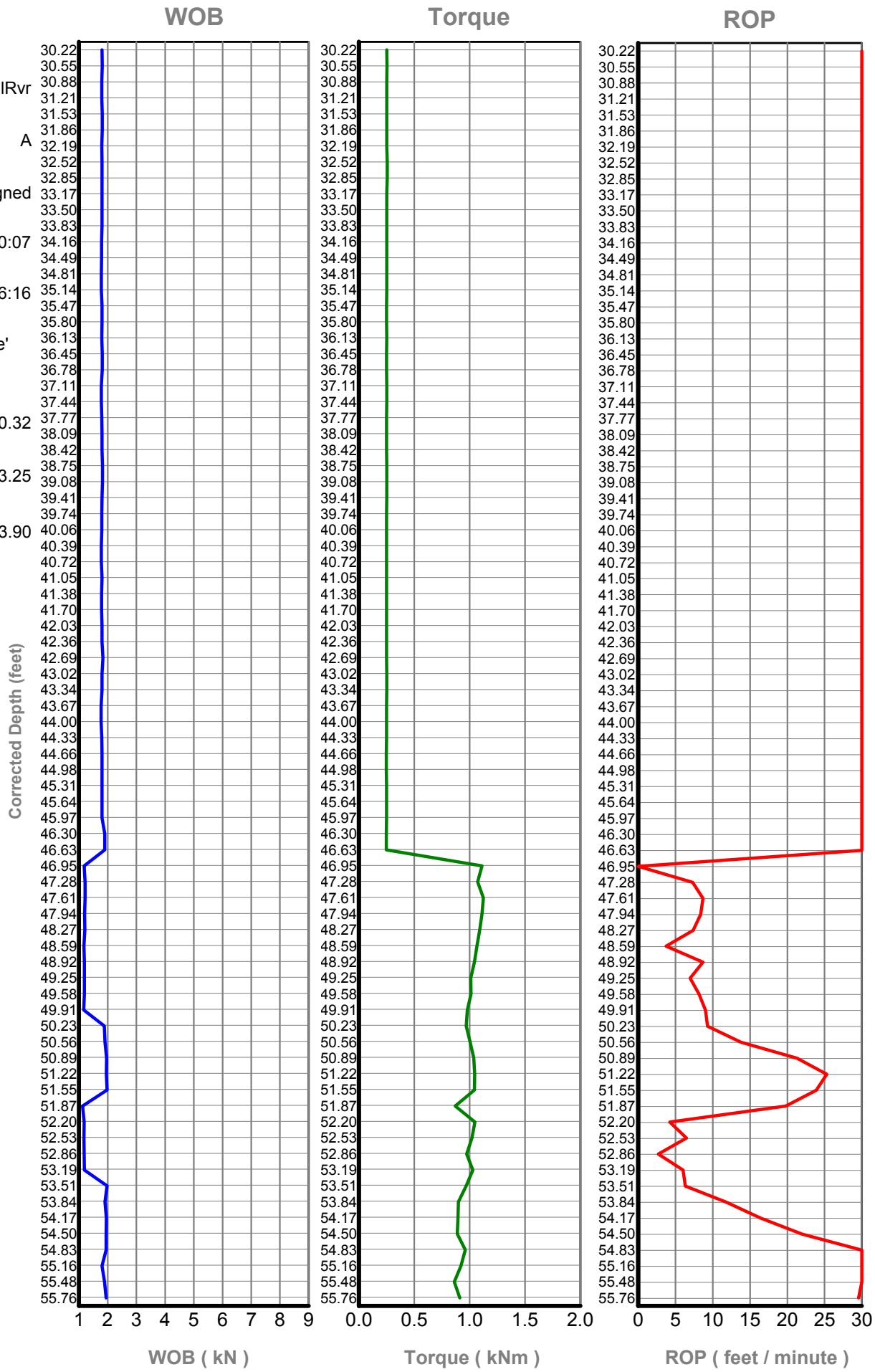
**End Date:**
5/1/2015 2:36:16

**Operator Note:**
'3.9 4.2 a Auto Complete'

**Northing:**
360,230.32

**Easting:**
242,243.25

**Tide (feet):**
3.90



## Hole: L70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:28:37 | 34.45 | 30.05 | 911 | 1.14 | 0.15 | 49.8 |
| 5/1/2015 14:28:38 | 34.78 | 30.38 | 913 | 1.15 | 0.15 | 49.9 |
| 5/1/2015 14:28:38 | 35.11 | 30.71 | 913 | 1.15 | 0.15 | 49.9 |
| 5/1/2015 14:28:38 | 35.43 | 31.03 | 910 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:39 | 35.76 | 31.36 | 910 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:39 | 36.09 | 31.69 | 905 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 14:28:40 | 36.42 | 32.02 | 905 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 14:28:40 | 36.75 | 32.35 | 910 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:40 | 37.07 | 32.67 | 908 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 14:28:41 | 37.40 | 33.00 | 911 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:41 | 37.73 | 33.33 | 911 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:42 | 38.06 | 33.66 | 911 | 1.15 | 0.15 | 49.8 |
| 5/1/2015 14:28:42 | 38.39 | 33.99 | 913 | 1.14 | 0.15 | 49.9 |
| 5/1/2015 14:28:43 | 38.71 | 34.31 | 898 | 1.14 | 0.15 | 49.1 |
| 5/1/2015 14:28:43 | 39.04 | 34.64 | 898 | 1.14 | 0.15 | 49.1 |
| 5/1/2015 14:28:43 | 39.37 | 34.97 | 898 | 1.15 | 0.15 | 49.1 |
| 5/1/2015 14:28:44 | 39.70 | 35.30 | 906 | 1.13 | 0.15 | 49.6 |
| 5/1/2015 14:28:44 | 40.03 | 35.63 | 906 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 14:28:45 | 40.35 | 35.95 | 906 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 14:28:45 | 40.68 | 36.28 | 906 | 1.15 | 0.15 | 49.6 |
| 5/1/2015 14:28:45 | 41.01 | 36.61 | 906 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 14:28:46 | 41.34 | 36.94 | 903 | 1.15 | 0.15 | 49.4 |
| 5/1/2015 14:28:46 | 41.67 | 37.27 | 906 | 1.13 | 0.15 | 49.6 |
| 5/1/2015 14:28:47 | 41.99 | 37.59 | 906 | 1.13 | 0.15 | 49.6 |
| 5/1/2015 14:28:47 | 42.32 | 37.92 | 903 | 1.14 | 0.15 | 49.4 |
| 5/1/2015 14:28:47 | 42.65 | 38.25 | 900 | 1.15 | 0.15 | 49.2 |
| 5/1/2015 14:28:48 | 42.98 | 38.58 | 895 | 1.14 | 0.15 | 48.9 |
| 5/1/2015 14:28:48 | 43.31 | 38.91 | 895 | 1.14 | 0.15 | 48.9 |
| 5/1/2015 14:28:48 | 43.64 | 39.24 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 14:28:49 | 43.96 | 39.56 | 907 | 1.14 | 0.15 | 49.6 |
| 5/1/2015 14:28:49 | 44.29 | 39.89 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 14:28:50 | 44.62 | 40.22 | 905 | 1.15 | 0.16 | 49.5 |
| 5/1/2015 14:28:50 | 44.95 | 40.55 | 905 | 1.15 | 0.15 | 49.5 |
| 5/1/2015 14:28:50 | 45.28 | 40.88 | 913 | 1.14 | 0.15 | 49.9 |
| 5/1/2015 14:28:51 | 45.60 | 41.20 | 902 | 1.14 | 0.15 | 49.3 |
| 5/1/2015 14:28:51 | 45.93 | 41.53 | 902 | 1.14 | 0.15 | 49.3 |
| 5/1/2015 14:28:51 | 46.26 | 41.86 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 14:28:52 | 46.59 | 42.19 | 894 | 1.15 | 0.15 | 48.9 |
| 5/1/2015 14:28:53 | 46.92 | 42.52 | 897 | 1.16 | 0.16 | 49.0 |
| 5/1/2015 14:28:53 | 47.24 | 42.84 | 891 | 1.15 | 0.16 | 48.7 |
| 5/1/2015 14:28:54 | 47.57 | 43.17 | 891 | 1.15 | 0.16 | 48.7 |
| 5/1/2015 14:28:54 | 47.90 | 43.50 | 886 | 1.15 | 0.16 | 48.4 |
| 5/1/2015 14:28:54 | 48.23 | 43.83 | 892 | 1.15 | 0.16 | 48.8 |
| 5/1/2015 14:28:55 | 48.56 | 44.16 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 14:28:55 | 48.88 | 44.48 | 905 | 1.17 | 0.16 | 49.5 |
| 5/1/2015 14:28:55 | 49.21 | 44.81 | 902 | 1.15 | 0.16 | 49.3 |
| 5/1/2015 14:28:56 | 49.54 | 45.14 | 900 | 0.62 | 0.08 | 49.2 |
| 5/1/2015 14:29:07 | 49.87 | 45.47 | 15 | 1.17 | 1.02 | 0.8 |
| 5/1/2015 14:29:07 | 50.20 | 45.80 | 111 | 1.19 | 1.03 | 6.1 |
| 5/1/2015 14:29:10 | 50.53 | 46.13 | 191 | 1.19 | 1.15 | 10.5 |
| 5/1/2015 14:29:13 | 50.85 | 46.45 | 117 | 1.19 | 1.28 | 6.4 |
| 5/1/2015 14:29:15 | 51.18 | 46.78 | 116 | 0.94 | 1.11 | 6.3 |
| 5/1/2015 14:29:16 | 51.51 | 47.11 | 122 | 1.85 | 0.98 | 6.7 |
| 5/1/2015 14:29:18 | 51.84 | 47.44 | 251 | 1.13 | 0.95 | 13.7 |
| 5/1/2015 14:29:20 | 52.17 | 47.77 | 164 | 1.15 | 1.17 | 9.0 |
| 5/1/2015 14:29:26 | 52.49 | 48.09 | 59 | 1.17 | 1.03 | 3.2 |
| 5/1/2015 14:29:32 | 52.82 | 48.42 | 52 | 1.05 | 1.15 | 2.8 |
| 5/1/2015 14:29:40 | 53.15 | 48.75 | 43 | 1.19 | 0.99 | 2.4 |
| 5/1/2015 14:29:47 | 53.48 | 49.08 | 67 | 1.07 | 1.05 | 3.6 |
| 5/1/2015 14:29:54 | 53.81 | 49.41 | 46 | 1.09 | 0.96 | 2.5 |
| 5/1/2015 14:29:57 | 53.96 | 49.56 | 60 | 1.19 | 1.45 | 3.3 |

## L70 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:27:11

**End Date:**
5/1/2015 14:32:28

**Operator Note:**
'4.4 4.4 a Auto Complete'

**Northing:**
359,747.92

**Easting:**
242,026.66

**Tide (feet):**
4.40



## Hole: L71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:28:19 | 34.45 | 30.05 | 1,159 | 0.29 | 0.38 | 63.4 |
| 5/1/2015 14:28:19 | 34.78 | 30.38 | 1,144 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:28:20 | 35.11 | 30.71 | 1,144 | 0.29 | 0.38 | 62.6 |
| 5/1/2015 14:28:20 | 35.43 | 31.03 | 1,145 | 0.30 | 0.38 | 62.6 |
| 5/1/2015 14:28:20 | 35.76 | 31.36 | 1,164 | 0.30 | 0.37 | 63.6 |
| 5/1/2015 14:28:21 | 36.09 | 31.69 | 1,164 | 0.30 | 0.37 | 63.6 |
| 5/1/2015 14:28:21 | 36.42 | 32.02 | 1,151 | 0.29 | 0.38 | 62.9 |
| 5/1/2015 14:28:21 | 36.75 | 32.35 | 1,151 | 0.29 | 0.38 | 62.9 |
| 5/1/2015 14:28:21 | 37.07 | 32.67 | 1,141 | 0.29 | 0.37 | 62.4 |
| 5/1/2015 14:28:22 | 37.40 | 33.00 | 1,153 | 0.29 | 0.37 | 63.1 |
| 5/1/2015 14:28:23 | 37.73 | 33.33 | 1,153 | 0.29 | 0.37 | 63.1 |
| 5/1/2015 14:28:22 | 38.06 | 33.66 | 1,153 | 0.29 | 0.38 | 63.1 |
| 5/1/2015 14:28:23 | 38.39 | 33.99 | 1,153 | 0.29 | 0.38 | 63.1 |
| 5/1/2015 14:28:23 | 38.71 | 34.31 | 1,153 | 0.30 | 0.38 | 63.1 |
| 5/1/2015 14:28:24 | 39.04 | 34.64 | 1,156 | 0.29 | 0.37 | 63.2 |
| 5/1/2015 14:28:24 | 39.37 | 34.97 | 1,156 | 0.29 | 0.37 | 63.2 |
| 5/1/2015 14:28:24 | 39.70 | 35.30 | 1,165 | 0.29 | 0.37 | 63.7 |
| 5/1/2015 14:28:25 | 40.03 | 35.63 | 1,165 | 0.29 | 0.37 | 63.7 |
| 5/1/2015 14:28:25 | 40.35 | 35.95 | 1,162 | 0.29 | 0.37 | 63.5 |
| 5/1/2015 14:28:25 | 40.68 | 36.28 | 1,162 | 0.29 | 0.38 | 63.5 |
| 5/1/2015 14:28:26 | 41.01 | 36.61 | 1,162 | 0.29 | 0.38 | 63.5 |
| 5/1/2015 14:28:26 | 41.34 | 36.94 | 1,155 | 0.30 | 0.38 | 63.2 |
| 5/1/2015 14:28:26 | 41.67 | 37.27 | 1,155 | 0.30 | 0.38 | 63.2 |
| 5/1/2015 14:28:26 | 41.99 | 37.59 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/1/2015 14:28:27 | 42.32 | 37.92 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/1/2015 14:28:27 | 42.65 | 38.25 | 1,162 | 0.29 | 0.37 | 63.6 |
| 5/1/2015 14:28:27 | 42.98 | 38.58 | 1,159 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 14:28:28 | 43.31 | 38.91 | 1,159 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 14:28:28 | 43.64 | 39.24 | 1,162 | 0.30 | 0.37 | 63.5 |
| 5/1/2015 14:28:28 | 43.96 | 39.56 | 1,162 | 0.30 | 0.37 | 63.5 |
| 5/1/2015 14:28:28 | 44.29 | 39.89 | 1,165 | 0.25 | 0.37 | 63.7 |
| 5/1/2015 14:28:29 | 44.62 | 40.22 | 1,162 | 0.29 | 0.38 | 63.5 |
| 5/1/2015 14:28:29 | 44.95 | 40.55 | 1,162 | 0.29 | 0.38 | 63.5 |
| 5/1/2015 14:28:29 | 45.28 | 40.88 | 1,159 | 0.30 | 0.37 | 63.4 |
| 5/1/2015 14:28:30 | 45.60 | 41.20 | 1,159 | 0.30 | 0.37 | 63.4 |
| 5/1/2015 14:28:30 | 45.93 | 41.53 | 1,158 | 0.30 | 0.37 | 63.3 |
| 5/1/2015 14:28:30 | 46.26 | 41.86 | 1,165 | 0.30 | 0.37 | 63.7 |
| 5/1/2015 14:28:31 | 46.59 | 42.19 | 1,165 | 0.30 | 0.37 | 63.7 |
| 5/1/2015 14:28:31 | 46.92 | 42.52 | 1,162 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 14:28:31 | 47.24 | 42.84 | 1,162 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 14:28:31 | 47.57 | 43.17 | 1,162 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 14:28:32 | 47.90 | 43.50 | 1,162 | 0.29 | 0.38 | 63.6 |
| 5/1/2015 14:28:32 | 48.23 | 43.83 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:28:32 | 48.56 | 44.16 | 1,168 | 0.30 | 0.39 | 63.9 |
| 5/1/2015 14:28:33 | 48.88 | 44.48 | 1,168 | 0.30 | 0.39 | 63.9 |
| 5/1/2015 14:28:33 | 49.21 | 44.81 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:28:34 | 49.54 | 45.14 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:28:34 | 49.87 | 45.47 | 1,165 | 0.29 | 0.38 | 63.7 |
| 5/1/2015 14:28:34 | 50.20 | 45.80 | 1,158 | 0.26 | 0.46 | 63.3 |
| 5/1/2015 14:28:46 | 50.53 | 46.13 | 35 | 4.06 | 0.46 | 1.9 |
| 5/1/2015 14:28:49 | 50.85 | 46.45 | 87 | 3.49 | 0.46 | 4.7 |
| 5/1/2015 14:28:54 | 51.18 | 46.78 | 78 | 3.26 | 0.46 | 4.3 |
| 5/1/2015 14:28:58 | 51.51 | 47.11 | 90 | 3.60 | 0.54 | 4.9 |
| 5/1/2015 14:29:02 | 51.84 | 47.44 | 78 | 3.07 | 0.47 | 4.3 |
| 5/1/2015 14:29:10 | 52.17 | 47.77 | 43 | 3.44 | 0.46 | 2.4 |
| 5/1/2015 14:29:18 | 52.49 | 48.09 | 44 | 2.95 | 0.47 | 2.4 |
| 5/1/2015 14:29:26 | 52.82 | 48.42 | 44 | 3.02 | 0.47 | 2.4 |
| 5/1/2015 14:29:31 | 53.03 | 48.63 | 40 | 3.06 | 0.46 | 2.2 |

## L71 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:26:11

**End Date:**
5/1/2015 14:30:46

**Operator Note:**
'4.4 4.4 b Auto Complete'

**Northing:**
359,787.03

**Easting:**
242,090.67

**Tide (feet):**
4.40



## Hole: L72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:27:42 | 34.45 | 30.05 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 14:27:43 | 34.78 | 30.38 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 14:27:43 | 35.11 | 30.71 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 14:27:43 | 35.43 | 31.03 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 14:27:43 | 35.76 | 31.36 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:27:44 | 36.09 | 31.69 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:44 | 36.42 | 32.02 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:44 | 36.75 | 32.35 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:27:45 | 37.07 | 32.67 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:45 | 37.40 | 33.00 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:45 | 37.73 | 33.33 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:46 | 38.06 | 33.66 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 14:27:46 | 38.39 | 33.99 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 14:27:46 | 38.71 | 34.31 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 14:27:47 | 39.04 | 34.64 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 14:27:47 | 39.37 | 34.97 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/1/2015 14:27:47 | 39.70 | 35.30 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:48 | 40.03 | 35.63 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:48 | 40.35 | 35.95 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:48 | 40.68 | 36.28 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 14:27:49 | 41.01 | 36.61 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 14:27:49 | 41.34 | 36.94 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/1/2015 14:27:49 | 41.67 | 37.27 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:27:50 | 41.99 | 37.59 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:27:50 | 42.32 | 37.92 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 14:27:51 | 42.65 | 38.25 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 14:27:50 | 42.98 | 38.58 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:27:51 | 43.31 | 38.91 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:27:52 | 43.64 | 39.24 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:27:52 | 43.96 | 39.56 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:27:52 | 44.29 | 39.89 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:27:53 | 44.62 | 40.22 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:27:53 | 44.95 | 40.55 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 14:27:53 | 45.28 | 40.88 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 14:27:54 | 45.60 | 41.20 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 14:27:54 | 45.93 | 41.53 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:27:54 | 46.26 | 41.86 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:27:55 | 46.59 | 42.19 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:27:55 | 46.92 | 42.52 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:27:55 | 47.24 | 42.84 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:27:55 | 47.57 | 43.17 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:27:56 | 47.90 | 43.50 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:27:56 | 48.23 | 43.83 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:27:56 | 48.56 | 44.16 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 14:27:57 | 48.88 | 44.48 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:27:57 | 49.21 | 44.81 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:27:57 | 49.54 | 45.14 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:27:58 | 49.87 | 45.47 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:27:58 | 50.20 | 45.80 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:27:58 | 50.53 | 46.13 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:27:59 | 50.85 | 46.45 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:27:59 | 51.18 | 46.78 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:27:59 | 51.51 | 47.11 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 14:28:06 | 51.84 | 47.44 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 14:28:08 | 52.17 | 47.77 | 92 | 1.14 | 0.29 | 5.0 |
| 5/1/2015 14:28:09 | 52.49 | 48.09 | 242 | 1.14 | 0.29 | 13.3 |
| 5/1/2015 14:28:10 | 52.82 | 48.42 | 313 | 1.14 | 0.29 | 17.1 |
| 5/1/2015 14:28:10 | 53.15 | 48.75 | 428 | 1.14 | 0.29 | 23.4 |
| 5/1/2015 14:28:11 | 53.48 | 49.08 | 496 | 1.14 | 0.29 | 27.1 |
| 5/1/2015 14:28:11 | 53.81 | 49.41 | 496 | 1.14 | 0.29 | 27.1 |
| 5/1/2015 14:28:12 | 54.13 | 49.73 | 561 | 1.14 | 0.29 | 30.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:28:13 | 54.46 | 50.06 | 598 | 1.14 | 0.29 | 32.7 |
| 5/1/2015 | 14:28:13 | 54.79 | 50.39 | 614 | 1.14 | 0.29 | 33.5 |
| 5/1/2015 | 14:28:48 | 55.12 | 50.72 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 14:28:48 | 55.45 | 51.05 | 180 | 1.14 | 0.29 | 9.8 |
| 5/1/2015 | 14:28:50 | 55.77 | 51.37 | 306 | 1.14 | 0.29 | 16.7 |
| 5/1/2015 | 14:28:51 | 56.10 | 51.70 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 | 14:28:53 | 56.43 | 52.03 | 312 | 1.14 | 0.29 | 17.0 |
| 5/1/2015 | 14:28:53 | 56.76 | 52.36 | 317 | 1.14 | 0.29 | 17.3 |
| 5/1/2015 | 14:28:54 | 57.09 | 52.69 | 332 | 1.14 | 0.29 | 18.1 |
| 5/1/2015 | 14:28:58 | 57.41 | 53.01 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 14:29:00 | 57.74 | 53.34 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 | 14:29:04 | 58.07 | 53.67 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 14:29:12 | 58.40 | 54.00 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 | 14:29:22 | 58.73 | 54.33 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 | 14:29:25 | 59.06 | 54.66 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 14:29:27 | 59.36 | 54.96 | 200 | 1.14 | 0.29 | 10.9 |

## L72 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:26:35

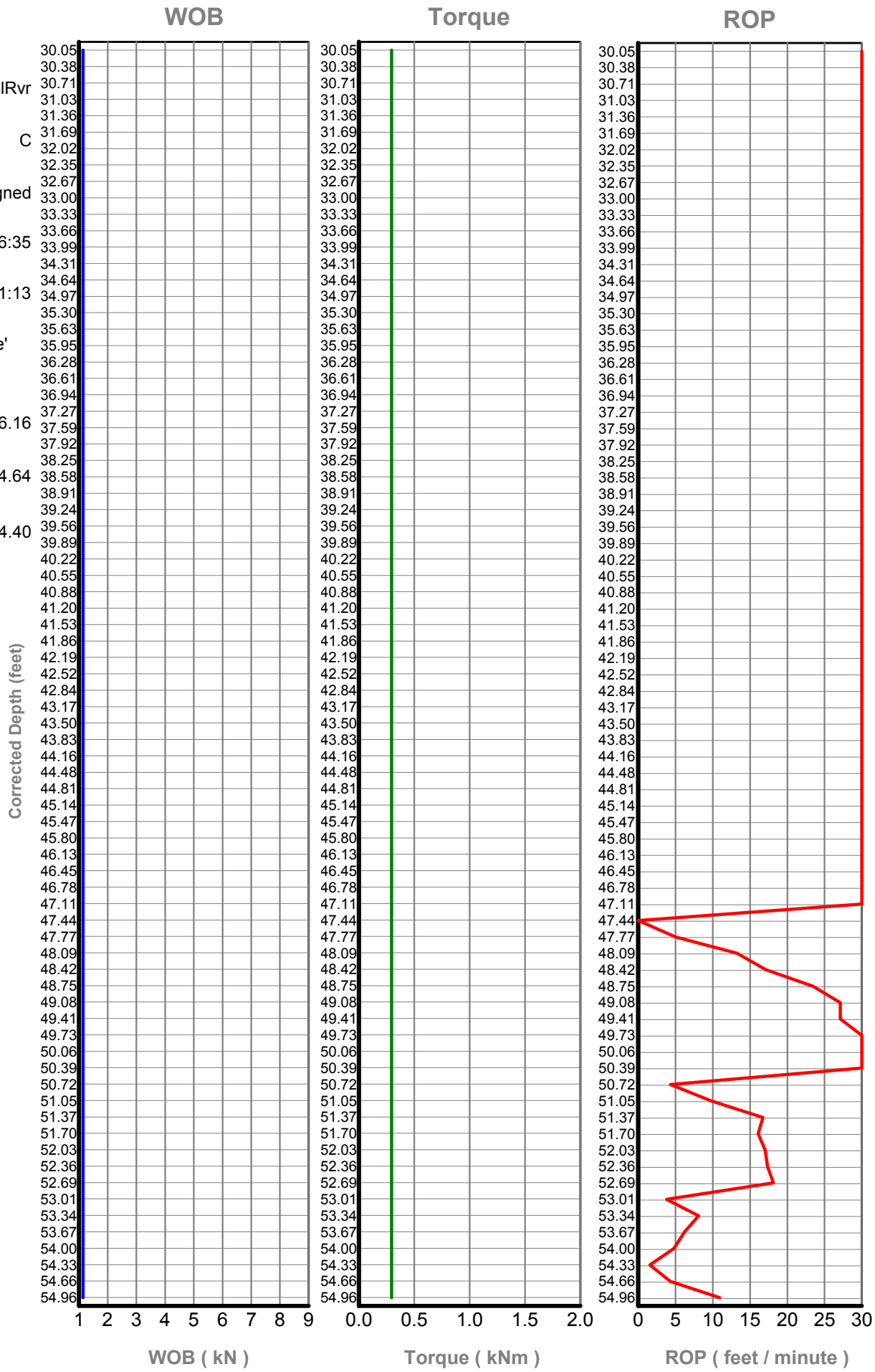
**End Date:**
5/1/2015 14:31:13

**Operator Note:**
'4.4 4.4 c Auto Complete'

**Northing:**
359,826.16

**Easting:**
242,154.64

**Tide (feet):**
4.40



## Hole: L73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:15:51 | 31.17 | 30.17 | 1,135 | 1.72 | 0.24 | 62.0 |
| 5/1/2015 6:15:52 | 31.50 | 30.50 | 1,138 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:15:52 | 31.82 | 30.82 | 1,138 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:15:52 | 32.15 | 31.15 | 1,129 | 1.74 | 0.24 | 61.7 |
| 5/1/2015 6:15:53 | 32.48 | 31.48 | 1,129 | 1.74 | 0.24 | 61.7 |
| 5/1/2015 6:15:53 | 32.81 | 31.81 | 1,173 | 1.70 | 0.24 | 64.1 |
| 5/1/2015 6:15:53 | 33.14 | 32.14 | 1,145 | 1.69 | 0.24 | 62.6 |
| 5/1/2015 6:15:54 | 33.46 | 32.46 | 1,145 | 1.69 | 0.24 | 62.6 |
| 5/1/2015 6:15:54 | 33.79 | 32.79 | 1,145 | 1.70 | 0.24 | 62.6 |
| 5/1/2015 6:15:54 | 34.12 | 33.12 | 1,145 | 1.70 | 0.24 | 62.6 |
| 5/1/2015 6:15:54 | 34.45 | 33.45 | 1,142 | 1.70 | 0.24 | 62.4 |
| 5/1/2015 6:15:55 | 34.78 | 33.78 | 1,145 | 1.71 | 0.24 | 62.6 |
| 5/1/2015 6:15:55 | 35.11 | 34.11 | 1,145 | 1.71 | 0.24 | 62.6 |
| 5/1/2015 6:15:55 | 35.43 | 34.43 | 1,139 | 1.71 | 0.24 | 62.3 |
| 5/1/2015 6:15:56 | 35.76 | 34.76 | 1,139 | 1.71 | 0.24 | 62.3 |
| 5/1/2015 6:15:56 | 36.09 | 35.09 | 1,139 | 1.70 | 0.24 | 62.3 |
| 5/1/2015 6:15:57 | 36.42 | 35.42 | 1,136 | 1.70 | 0.24 | 62.1 |
| 5/1/2015 6:15:57 | 36.75 | 35.75 | 1,136 | 1.70 | 0.24 | 62.1 |
| 5/1/2015 6:15:57 | 37.07 | 36.07 | 1,142 | 1.70 | 0.24 | 62.4 |
| 5/1/2015 6:15:58 | 37.40 | 36.40 | 1,142 | 1.70 | 0.24 | 62.4 |
| 5/1/2015 6:15:58 | 37.73 | 36.73 | 1,139 | 1.73 | 0.24 | 62.3 |
| 5/1/2015 6:15:58 | 38.06 | 37.06 | 1,142 | 1.70 | 0.24 | 62.4 |
| 5/1/2015 6:15:59 | 38.39 | 37.39 | 1,142 | 1.70 | 0.24 | 62.4 |
| 5/1/2015 6:15:59 | 38.71 | 37.71 | 1,133 | 1.72 | 0.24 | 62.0 |
| 5/1/2015 6:15:59 | 39.04 | 38.04 | 1,133 | 1.72 | 0.24 | 62.0 |
| 5/1/2015 6:15:59 | 39.37 | 38.37 | 1,148 | 1.70 | 0.24 | 62.8 |
| 5/1/2015 6:16:00 | 39.70 | 38.70 | 1,142 | 1.70 | 0.24 | 62.5 |
| 5/1/2015 6:16:00 | 40.03 | 39.03 | 1,142 | 1.70 | 0.24 | 62.5 |
| 5/1/2015 6:16:00 | 40.35 | 39.35 | 1,140 | 1.69 | 0.24 | 62.3 |
| 5/1/2015 6:16:01 | 40.68 | 39.68 | 1,140 | 1.69 | 0.24 | 62.3 |
| 5/1/2015 6:16:01 | 41.01 | 40.01 | 1,133 | 1.71 | 0.24 | 61.9 |
| 5/1/2015 6:16:01 | 41.34 | 40.34 | 1,148 | 1.71 | 0.24 | 62.8 |
| 5/1/2015 6:16:02 | 41.67 | 40.67 | 1,148 | 1.71 | 0.24 | 62.8 |
| 5/1/2015 6:16:02 | 41.99 | 40.99 | 1,133 | 1.70 | 0.24 | 62.0 |
| 5/1/2015 6:16:02 | 42.32 | 41.32 | 1,133 | 1.72 | 0.24 | 62.0 |
| 5/1/2015 6:16:03 | 42.65 | 41.65 | 1,133 | 1.72 | 0.24 | 62.0 |
| 5/1/2015 6:16:03 | 42.98 | 41.98 | 1,136 | 1.72 | 0.24 | 62.1 |
| 5/1/2015 6:16:03 | 43.31 | 42.31 | 1,136 | 1.72 | 0.24 | 62.1 |
| 5/1/2015 6:16:03 | 43.64 | 42.64 | 1,136 | 1.63 | 0.24 | 62.1 |
| 5/1/2015 6:16:04 | 43.96 | 42.96 | 1,123 | 1.70 | 0.24 | 61.4 |
| 5/1/2015 6:16:04 | 44.29 | 43.29 | 1,123 | 1.70 | 0.24 | 61.4 |
| 5/1/2015 6:16:04 | 44.62 | 43.62 | 1,137 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:16:05 | 44.95 | 43.95 | 1,137 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:16:05 | 45.28 | 44.28 | 1,130 | 1.70 | 0.24 | 61.8 |
| 5/1/2015 6:16:05 | 45.60 | 44.60 | 1,140 | 1.71 | 0.24 | 62.3 |
| 5/1/2015 6:16:06 | 45.93 | 44.93 | 1,140 | 1.71 | 0.24 | 62.3 |
| 5/1/2015 6:16:06 | 46.26 | 45.26 | 1,137 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:16:06 | 46.59 | 45.59 | 1,137 | 1.70 | 0.24 | 62.2 |
| 5/1/2015 6:16:06 | 46.92 | 45.92 | 1,147 | 1.70 | 0.24 | 62.7 |
| 5/1/2015 6:16:07 | 47.24 | 46.24 | 1,133 | 1.71 | 0.24 | 62.0 |
| 5/1/2015 6:16:08 | 47.57 | 46.57 | 1,133 | 1.71 | 0.24 | 62.0 |
| 5/1/2015 6:16:08 | 47.90 | 46.90 | 1,136 | 1.69 | 0.24 | 62.1 |
| 5/1/2015 6:16:08 | 48.23 | 47.23 | 1,136 | 1.69 | 0.24 | 62.1 |
| 5/1/2015 6:16:08 | 48.56 | 47.56 | 1,130 | 1.70 | 0.24 | 61.8 |
| 5/1/2015 6:16:09 | 48.88 | 47.88 | 1,130 | 1.70 | 0.24 | 61.8 |
| 5/1/2015 6:16:09 | 49.21 | 48.21 | 1,130 | 1.70 | 0.24 | 61.8 |
| 5/1/2015 6:16:09 | 49.54 | 48.54 | 1,124 | 1.72 | 0.24 | 61.4 |
| 5/1/2015 6:16:10 | 49.87 | 48.87 | 1,124 | 1.72 | 0.24 | 61.4 |
| 5/1/2015 6:16:10 | 50.20 | 49.20 | 1,133 | 1.86 | 0.25 | 62.0 |
| 5/1/2015 6:16:25 | 50.53 | 49.53 | 0 | 1.19 | 1.01 | 0.0 |
| 5/1/2015 6:16:27 | 50.85 | 49.85 | 129 | 1.11 | 1.29 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:16:28 | 51.18 | 50.18 | 272 | 1.11 | 0.82 | 14.9 |
| 5/1/2015 | 6:16:29 | 51.51 | 50.51 | 353 | 1.11 | 0.80 | 19.3 |
| 5/1/2015 | 6:16:29 | 51.84 | 50.84 | 396 | 1.20 | 0.84 | 21.6 |
| 5/1/2015 | 6:16:30 | 52.17 | 51.17 | 478 | 1.17 | 0.87 | 26.1 |
| 5/1/2015 | 6:16:31 | 52.49 | 51.49 | 549 | 1.13 | 0.88 | 30.0 |
| 5/1/2015 | 6:16:31 | 52.82 | 51.82 | 543 | 1.12 | 1.17 | 29.7 |
| 5/1/2015 | 6:16:32 | 53.15 | 52.15 | 448 | 1.17 | 1.09 | 24.5 |
| 5/1/2015 | 6:16:33 | 53.48 | 52.48 | 410 | 1.15 | 1.08 | 22.4 |
| 5/1/2015 | 6:16:35 | 53.81 | 52.81 | 292 | 1.12 | 1.33 | 15.9 |
| 5/1/2015 | 6:16:36 | 54.13 | 53.13 | 292 | 1.15 | 0.93 | 16.0 |
| 5/1/2015 | 6:16:37 | 54.46 | 53.46 | 312 | 1.17 | 0.95 | 17.1 |
| 5/1/2015 | 6:16:39 | 54.79 | 53.79 | 237 | 1.15 | 1.03 | 13.0 |
| 5/1/2015 | 6:16:40 | 55.12 | 54.12 | 214 | 1.89 | 0.92 | 11.7 |
| 5/1/2015 | 6:16:41 | 55.45 | 54.45 | 245 | 1.77 | 1.15 | 13.4 |
| 5/1/2015 | 6:17:01 | 55.77 | 54.77 | 0 | 1.17 | 1.05 | 0.0 |
| 5/1/2015 | 6:17:04 | 56.10 | 55.10 | 86 | 1.09 | 1.03 | 4.7 |
| 5/1/2015 | 6:17:05 | 56.43 | 55.43 | 175 | 1.05 | 0.90 | 9.6 |
| 5/1/2015 | 6:17:07 | 56.76 | 55.76 | 214 | 1.08 | 0.91 | 11.7 |
| 5/1/2015 | 6:17:08 | 57.09 | 56.09 | 261 | 1.09 | 0.95 | 14.3 |
| 5/1/2015 | 6:17:10 | 57.41 | 56.41 | 249 | 1.12 | 0.90 | 13.6 |
| 5/1/2015 | 6:17:12 | 57.74 | 56.74 | 211 | 1.08 | 1.03 | 11.5 |
| 5/1/2015 | 6:17:13 | 58.07 | 57.07 | 214 | 1.19 | 1.10 | 11.7 |
| 5/1/2015 | 6:17:13 | 58.11 | 57.11 | 214 | 1.19 | 1.10 | 11.7 |

## L73 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:13:23

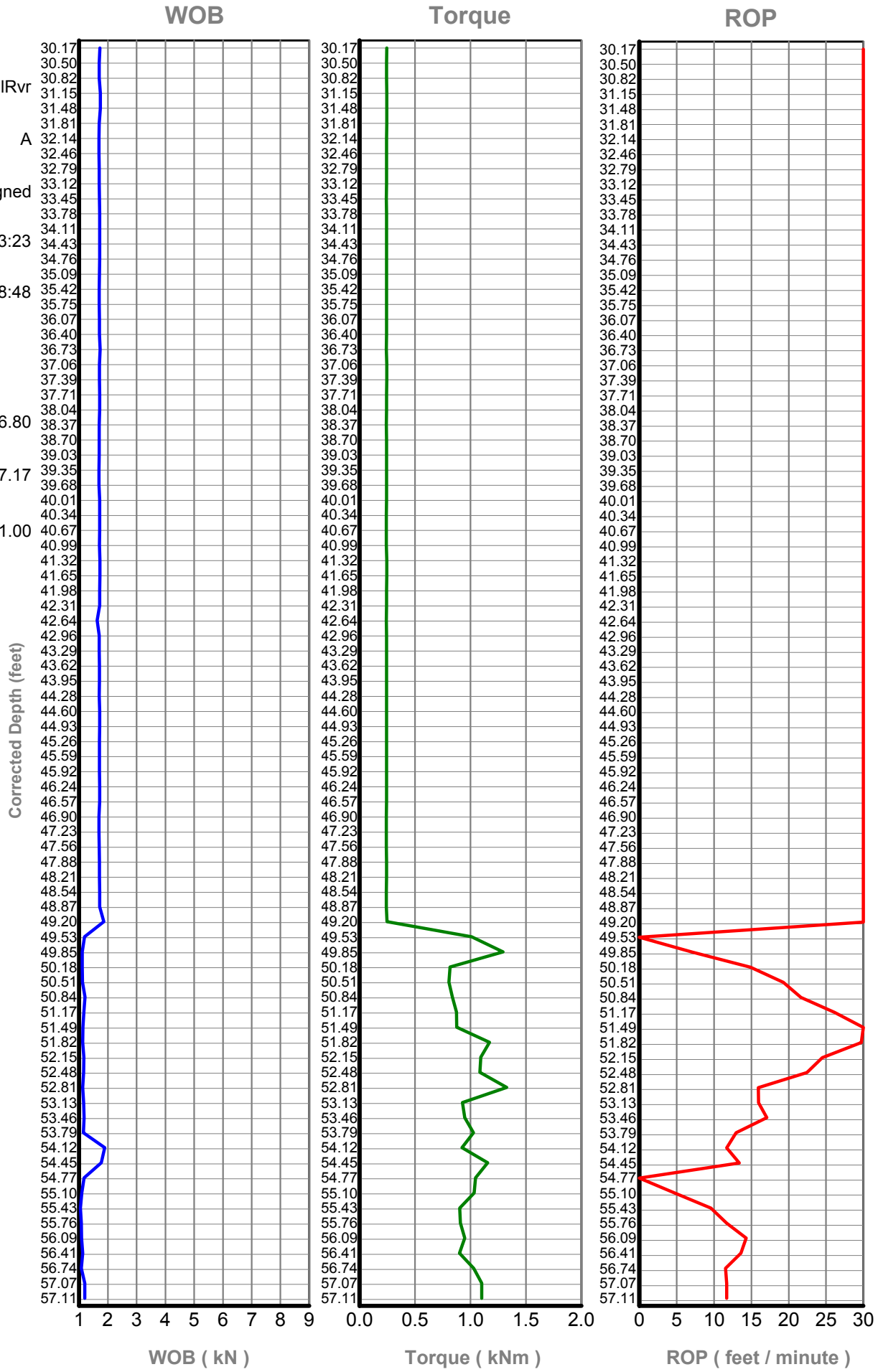
**End Date:**
5/1/2015 6:18:48

**Operator Note:**
'1 1.1 a Auto Complete'

**Northing:**
359,866.80

**Easting:**
242,217.17

**Tide (feet):**
1.00



## Hole: L74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:15:01 | 31.17 | 30.17 | 1,115 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 6:15:01 | 31.50 | 30.50 | 1,115 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 6:15:01 | 31.82 | 30.82 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 6:15:02 | 32.15 | 31.15 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:02 | 32.48 | 31.48 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:02 | 32.81 | 31.81 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 6:15:03 | 33.14 | 32.14 | 1,109 | 0.33 | 0.37 | 60.7 |
| 5/1/2015 6:15:03 | 33.46 | 32.46 | 1,109 | 0.33 | 0.37 | 60.7 |
| 5/1/2015 6:15:03 | 33.79 | 32.79 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 6:15:04 | 34.12 | 33.12 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 6:15:04 | 34.45 | 33.45 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 6:15:04 | 34.78 | 33.78 | 1,134 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 6:15:05 | 35.11 | 34.11 | 1,134 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 6:15:05 | 35.43 | 34.43 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 6:15:05 | 35.76 | 34.76 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 6:15:05 | 36.09 | 35.09 | 1,131 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 6:15:06 | 36.42 | 35.42 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 6:15:06 | 36.75 | 35.75 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 6:15:06 | 37.07 | 36.07 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:07 | 37.40 | 36.40 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:07 | 37.73 | 36.73 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 6:15:07 | 38.06 | 37.06 | 1,113 | 0.32 | 0.37 | 60.9 |
| 5/1/2015 6:15:08 | 38.39 | 37.39 | 1,113 | 0.32 | 0.37 | 60.9 |
| 5/1/2015 6:15:08 | 38.71 | 37.71 | 1,106 | 0.33 | 0.38 | 60.5 |
| 5/1/2015 6:15:09 | 39.04 | 38.04 | 1,122 | 0.34 | 0.37 | 61.3 |
| 5/1/2015 6:15:09 | 39.37 | 38.37 | 1,122 | 0.34 | 0.37 | 61.3 |
| 5/1/2015 6:15:09 | 39.70 | 38.70 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:10 | 40.03 | 39.03 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:10 | 40.35 | 39.35 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 6:15:10 | 40.68 | 39.68 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 6:15:11 | 41.01 | 40.01 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 6:15:11 | 41.34 | 40.34 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:11 | 41.67 | 40.67 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:11 | 41.99 | 40.99 | 1,124 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 6:15:12 | 42.32 | 41.32 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:12 | 42.65 | 41.65 | 1,122 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 6:15:12 | 42.98 | 41.98 | 1,118 | 0.33 | 0.37 | 61.1 |
| 5/1/2015 6:15:13 | 43.31 | 42.31 | 1,118 | 0.33 | 0.37 | 61.1 |
| 5/1/2015 6:15:13 | 43.64 | 42.64 | 1,123 | 0.33 | 0.37 | 61.4 |
| 5/1/2015 6:15:13 | 43.96 | 42.96 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:14 | 44.29 | 43.29 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 6:15:14 | 44.62 | 43.62 | 1,102 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 6:15:14 | 44.95 | 43.95 | 1,102 | 0.35 | 0.38 | 60.3 |
| 5/1/2015 6:15:14 | 45.28 | 44.28 | 1,102 | 0.33 | 0.38 | 60.3 |
| 5/1/2015 6:15:15 | 45.60 | 44.60 | 1,121 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 6:15:15 | 45.93 | 44.93 | 1,121 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 6:15:15 | 46.26 | 45.26 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 6:15:16 | 46.59 | 45.59 | 1,119 | 0.33 | 0.37 | 61.2 |
| 5/1/2015 6:15:16 | 46.92 | 45.92 | 1,119 | 0.33 | 0.37 | 61.2 |
| 5/1/2015 6:15:16 | 47.24 | 46.24 | 1,112 | 0.32 | 0.37 | 60.8 |
| 5/1/2015 6:15:17 | 47.57 | 46.57 | 1,112 | 0.32 | 0.37 | 60.8 |
| 5/1/2015 6:15:17 | 47.90 | 46.90 | 1,143 | 0.36 | 0.37 | 62.5 |
| 5/1/2015 6:15:17 | 48.23 | 47.23 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:15:18 | 48.56 | 47.56 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 6:15:18 | 48.88 | 47.88 | 1,133 | 0.33 | 0.37 | 62.0 |
| 5/1/2015 6:15:19 | 49.21 | 48.21 | 1,133 | 0.33 | 0.37 | 62.0 |
| 5/1/2015 6:15:19 | 49.54 | 48.54 | 1,136 | 0.32 | 0.37 | 62.1 |
| 5/1/2015 6:15:19 | 49.87 | 48.87 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:15:20 | 50.20 | 49.20 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/1/2015 6:15:20 | 50.53 | 49.53 | 1,127 | 0.30 | 0.43 | 61.6 |
| 5/1/2015 6:15:25 | 50.85 | 49.85 | 57 | 3.22 | 0.42 | 3.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:15:25 | 51.18 | 50.18 | 154 | 3.14 | 0.42 | 8.4 |
| 5/1/2015 | 6:15:29 | 51.51 | 50.51 | 0 | 2.90 | 0.42 | 0.0 |
| 5/1/2015 | 6:15:30 | 51.84 | 50.84 | 90 | 2.71 | 0.42 | 4.9 |
| 5/1/2015 | 6:15:31 | 52.17 | 51.17 | 273 | 2.85 | 0.43 | 14.9 |
| 5/1/2015 | 6:15:31 | 52.49 | 51.49 | 367 | 2.78 | 0.42 | 20.1 |
| 5/1/2015 | 6:15:32 | 52.82 | 51.82 | 492 | 2.84 | 0.44 | 26.9 |
| 5/1/2015 | 6:15:39 | 53.15 | 52.15 | 0 | 2.83 | 0.45 | 0.0 |
| 5/1/2015 | 6:15:41 | 53.48 | 52.48 | 110 | 2.94 | 0.45 | 6.0 |
| 5/1/2015 | 6:15:43 | 53.81 | 52.81 | 152 | 2.87 | 0.45 | 8.3 |
| 5/1/2015 | 6:15:44 | 54.13 | 53.13 | 198 | 2.94 | 0.44 | 10.8 |
| 5/1/2015 | 6:15:45 | 54.46 | 53.46 | 229 | 2.84 | 0.43 | 12.5 |
| 5/1/2015 | 6:15:46 | 54.79 | 53.79 | 322 | 2.84 | 0.42 | 17.6 |
| 5/1/2015 | 6:15:46 | 55.12 | 54.12 | 377 | 2.75 | 0.42 | 20.6 |
| 5/1/2015 | 6:15:47 | 55.45 | 54.45 | 441 | 2.57 | 0.41 | 24.1 |
| 5/1/2015 | 6:15:47 | 55.77 | 54.77 | 441 | 2.70 | 0.42 | 24.1 |
| 5/1/2015 | 6:15:49 | 56.10 | 55.10 | 543 | 3.10 | 0.42 | 29.7 |
| 5/1/2015 | 6:15:49 | 56.43 | 55.43 | 525 | 2.76 | 0.43 | 28.7 |
| 5/1/2015 | 6:15:50 | 56.76 | 55.76 | 517 | 2.88 | 0.43 | 28.3 |
| 5/1/2015 | 6:15:51 | 57.09 | 56.09 | 485 | 2.77 | 0.45 | 26.5 |
| 5/1/2015 | 6:15:55 | 57.41 | 56.41 | 55 | 2.95 | 0.46 | 3.0 |
| 5/1/2015 | 6:16:10 | 57.74 | 56.74 | 52 | 2.90 | 0.47 | 2.8 |
| 5/1/2015 | 6:16:14 | 57.95 | 56.95 | 52 | 2.79 | 0.46 | 2.8 |

## L74 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:13:25

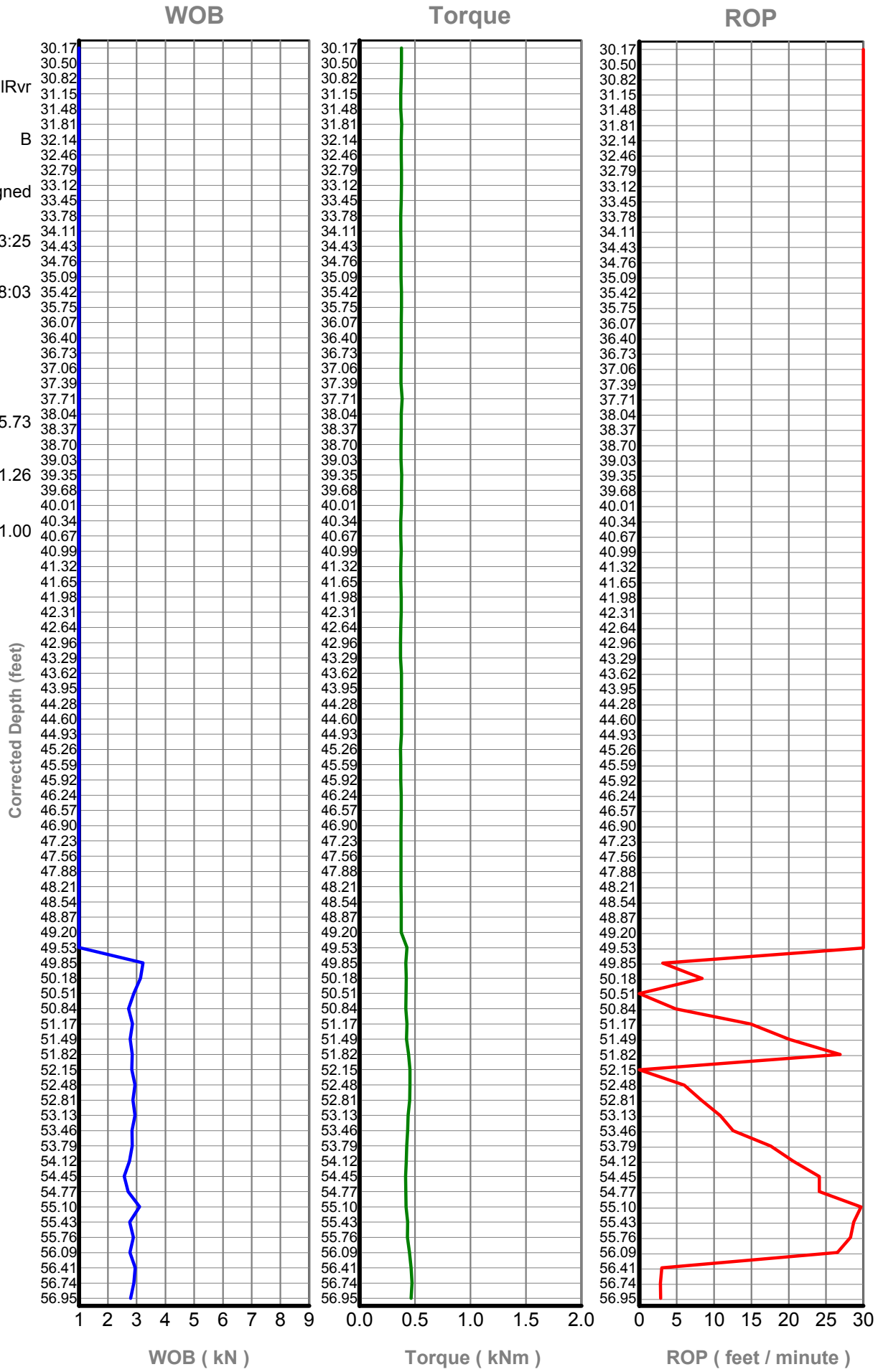
**End Date:**
5/1/2015 6:18:03

**Operator Note:**
'1 1.1b Auto Complete'

**Northing:**
359,905.73

**Easting:**
242,281.26

**Tide (feet):**
1.00



## Hole: L75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 6:13:27 | 31.17 | 30.17 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 6:13:27 | 31.50 | 30.50 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 6:13:28 | 31.82 | 30.82 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 6:13:28 | 32.15 | 31.15 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 6:13:28 | 32.48 | 31.48 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:29 | 32.81 | 31.81 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 6:13:29 | 33.14 | 32.14 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 6:13:29 | 33.46 | 32.46 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:30 | 33.79 | 32.79 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 6:13:30 | 34.12 | 33.12 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 6:13:30 | 34.45 | 33.45 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 6:13:31 | 34.78 | 33.78 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 6:13:31 | 35.11 | 34.11 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 6:13:31 | 35.43 | 34.43 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 6:13:32 | 35.76 | 34.76 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:32 | 36.09 | 35.09 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:32 | 36.42 | 35.42 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 6:13:33 | 36.75 | 35.75 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 6:13:33 | 37.07 | 36.07 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:33 | 37.40 | 36.40 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 6:13:34 | 37.73 | 36.73 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 6:13:34 | 38.06 | 37.06 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:35 | 38.39 | 37.39 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 6:13:35 | 38.71 | 37.71 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 6:13:35 | 39.04 | 38.04 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:36 | 39.37 | 38.37 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:13:36 | 39.70 | 38.70 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 6:13:36 | 40.03 | 39.03 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:37 | 40.35 | 39.35 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:37 | 40.68 | 39.68 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:37 | 41.01 | 40.01 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:38 | 41.34 | 40.34 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:38 | 41.67 | 40.67 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:38 | 41.99 | 40.99 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 6:13:39 | 42.32 | 41.32 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:39 | 42.65 | 41.65 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 6:13:39 | 42.98 | 41.98 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:13:40 | 43.31 | 42.31 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:13:40 | 43.64 | 42.64 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:13:40 | 43.96 | 42.96 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:41 | 44.29 | 43.29 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:41 | 44.62 | 43.62 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 6:13:41 | 44.95 | 43.95 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:42 | 45.28 | 44.28 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:42 | 45.60 | 44.60 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 6:13:42 | 45.93 | 44.93 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:13:43 | 46.26 | 45.26 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:13:43 | 46.59 | 45.59 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:13:43 | 46.92 | 45.92 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:13:44 | 47.24 | 46.24 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 6:13:44 | 47.57 | 46.57 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 6:13:44 | 47.90 | 46.90 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:45 | 48.23 | 47.23 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 6:13:45 | 48.56 | 47.56 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 6:14:10 | 48.88 | 47.88 | 100 | 1.14 | 0.29 | 5.5 |
| 5/1/2015 6:14:14 | 49.21 | 48.21 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 6:14:18 | 49.54 | 48.54 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 6:14:26 | 49.87 | 48.87 | 73 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 6:14:27 | 50.20 | 49.20 | 218 | 1.14 | 0.29 | 11.9 |
| 5/1/2015 6:14:29 | 50.53 | 49.53 | 284 | 1.14 | 0.29 | 15.5 |
| 5/1/2015 6:14:39 | 50.85 | 49.85 | 70 | 1.14 | 0.29 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 6:14:40 | 51.18 | 50.18 | 150 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 | 6:14:41 | 51.51 | 50.51 | 235 | 1.14 | 0.29 | 12.8 |
| 5/1/2015 | 6:14:42 | 51.84 | 50.84 | 295 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 | 6:14:43 | 52.17 | 51.17 | 399 | 1.14 | 0.29 | 21.8 |
| 5/1/2015 | 6:14:43 | 52.49 | 51.49 | 399 | 1.14 | 0.29 | 21.8 |
| 5/1/2015 | 6:14:45 | 52.82 | 51.82 | 485 | 1.14 | 0.29 | 26.5 |
| 5/1/2015 | 6:14:54 | 53.15 | 52.15 | 38 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 | 6:14:57 | 53.48 | 52.48 | 140 | 1.14 | 0.29 | 7.7 |
| 5/1/2015 | 6:14:58 | 53.81 | 52.81 | 215 | 1.14 | 0.29 | 11.8 |
| 5/1/2015 | 6:15:00 | 54.13 | 53.13 | 221 | 1.14 | 0.29 | 12.1 |
| 5/1/2015 | 6:15:01 | 54.46 | 53.46 | 201 | 1.14 | 0.29 | 11.0 |
| 5/1/2015 | 6:15:03 | 54.79 | 53.79 | 239 | 1.14 | 0.29 | 13.0 |
| 5/1/2015 | 6:15:04 | 55.12 | 54.12 | 267 | 1.14 | 0.29 | 14.6 |
| 5/1/2015 | 6:15:05 | 55.45 | 54.45 | 264 | 1.14 | 0.29 | 14.5 |
| 5/1/2015 | 6:15:07 | 55.77 | 54.77 | 234 | 1.14 | 0.29 | 12.8 |
| 5/1/2015 | 6:15:09 | 56.10 | 55.10 | 218 | 1.14 | 0.29 | 11.9 |
| 5/1/2015 | 6:15:09 | 56.24 | 55.24 | 221 | 1.14 | 0.29 | 12.1 |

## L75 - Summary

**Pattern Number:**
AreaL_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 6:12:33

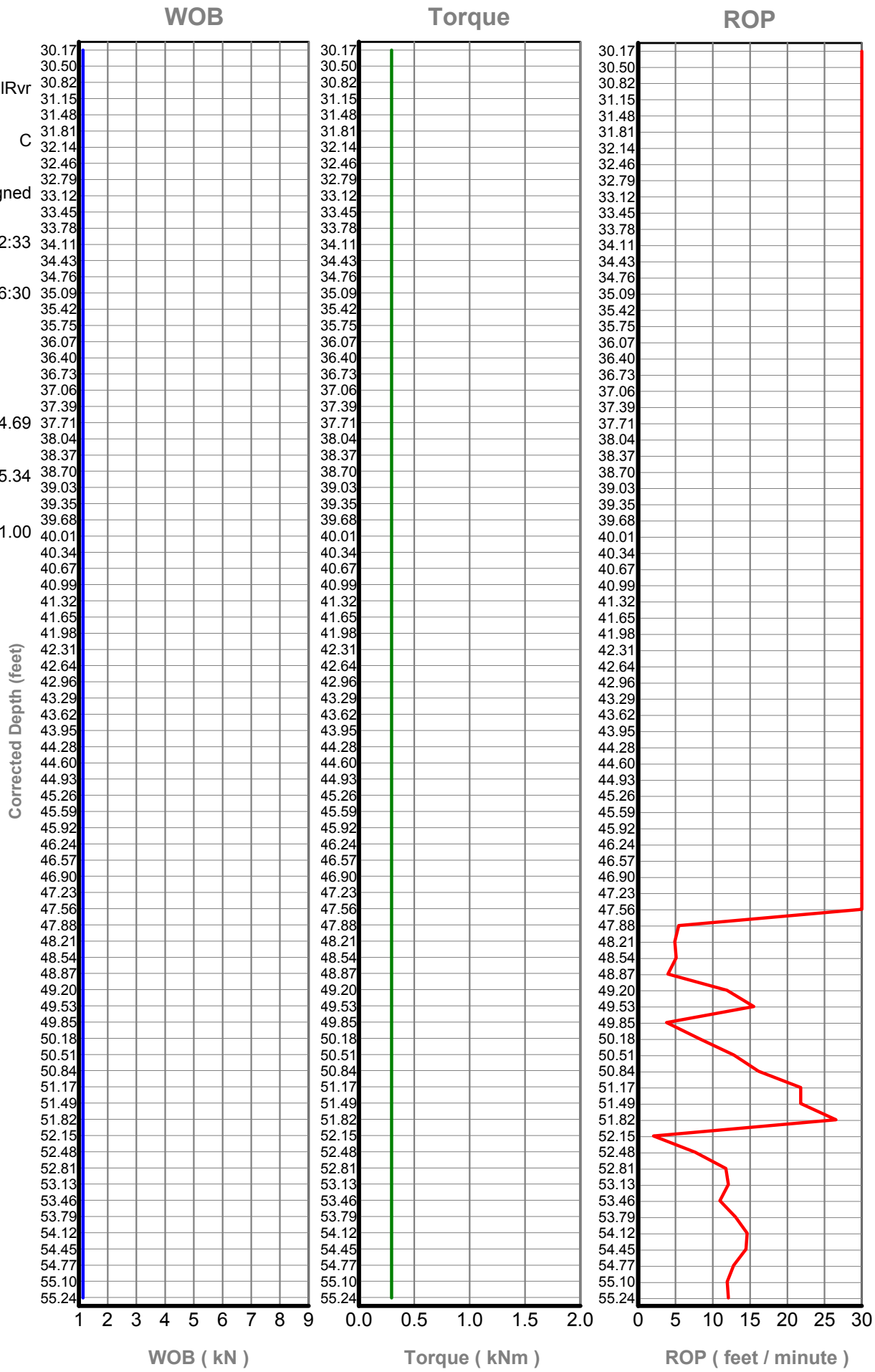
**End Date:**
5/1/2015 6:16:30

**Operator Note:**
'1 1.1 c Auto Complete'

**Northing:**
359,944.69

**Easting:**
242,345.34

**Tide (feet):**
1.00



## Hole: L76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:45:48 | 32.81 | 30.11 | 1,165 | 1.80 | 0.79 | 63.7 |
| 5/1/2015 3:45:48 | 33.14 | 30.44 | 1,165 | 1.80 | 0.79 | 63.7 |
| 5/1/2015 3:45:48 | 33.46 | 30.76 | 1,165 | 1.79 | 0.81 | 63.7 |
| 5/1/2015 3:45:49 | 33.79 | 31.09 | 1,162 | 1.79 | 0.79 | 63.5 |
| 5/1/2015 3:45:49 | 34.12 | 31.42 | 1,162 | 1.79 | 0.79 | 63.5 |
| 5/1/2015 3:45:49 | 34.45 | 31.75 | 1,168 | 1.77 | 0.83 | 63.9 |
| 5/1/2015 3:45:50 | 34.78 | 32.08 | 1,168 | 1.77 | 0.83 | 63.9 |
| 5/1/2015 3:45:50 | 35.11 | 32.41 | 1,165 | 1.78 | 0.79 | 63.7 |
| 5/1/2015 3:45:50 | 35.43 | 32.73 | 1,162 | 1.76 | 0.83 | 63.5 |
| 5/1/2015 3:45:51 | 35.76 | 33.06 | 1,162 | 1.76 | 0.83 | 63.5 |
| 5/1/2015 3:45:51 | 36.09 | 33.39 | 1,155 | 1.78 | 0.79 | 63.2 |
| 5/1/2015 3:45:51 | 36.42 | 33.72 | 1,155 | 1.78 | 0.79 | 63.2 |
| 5/1/2015 3:45:51 | 36.75 | 34.05 | 1,168 | 1.79 | 0.82 | 63.9 |
| 5/1/2015 3:45:52 | 37.07 | 34.37 | 1,162 | 1.78 | 0.79 | 63.6 |
| 5/1/2015 3:45:53 | 37.40 | 34.70 | 1,162 | 1.78 | 0.79 | 63.6 |
| 5/1/2015 3:45:53 | 37.73 | 35.03 | 1,162 | 1.77 | 0.82 | 63.6 |
| 5/1/2015 3:45:53 | 38.06 | 35.36 | 1,162 | 1.77 | 0.82 | 63.6 |
| 5/1/2015 3:45:53 | 38.39 | 35.69 | 1,165 | 1.83 | 0.80 | 63.7 |
| 5/1/2015 3:45:54 | 38.71 | 36.01 | 1,165 | 1.83 | 0.80 | 63.7 |
| 5/1/2015 3:45:54 | 39.04 | 36.34 | 1,171 | 1.78 | 0.73 | 64.0 |
| 5/1/2015 3:45:54 | 39.37 | 36.67 | 1,165 | 1.77 | 0.80 | 63.7 |
| 5/1/2015 3:45:55 | 39.70 | 37.00 | 1,165 | 1.77 | 0.80 | 63.7 |
| 5/1/2015 3:45:55 | 40.03 | 37.33 | 1,168 | 1.76 | 0.81 | 63.9 |
| 5/1/2015 3:45:55 | 40.35 | 37.65 | 1,168 | 1.76 | 0.81 | 63.9 |
| 5/1/2015 3:45:55 | 40.68 | 37.98 | 1,161 | 1.79 | 0.80 | 63.5 |
| 5/1/2015 3:45:56 | 41.01 | 38.31 | 1,168 | 1.76 | 0.82 | 63.9 |
| 5/1/2015 3:45:56 | 41.34 | 38.64 | 1,168 | 1.76 | 0.82 | 63.9 |
| 5/1/2015 3:45:56 | 41.67 | 38.97 | 1,162 | 1.79 | 0.79 | 63.5 |
| 5/1/2015 3:45:57 | 41.99 | 39.29 | 1,162 | 1.79 | 0.79 | 63.5 |
| 5/1/2015 3:45:57 | 42.32 | 39.62 | 1,162 | 1.77 | 0.81 | 63.5 |
| 5/1/2015 3:45:57 | 42.65 | 39.95 | 1,159 | 1.79 | 0.80 | 63.4 |
| 5/1/2015 3:45:58 | 42.98 | 40.28 | 1,159 | 1.79 | 0.80 | 63.4 |
| 5/1/2015 3:45:58 | 43.31 | 40.61 | 1,169 | 1.76 | 0.83 | 63.9 |
| 5/1/2015 3:45:58 | 43.64 | 40.94 | 1,169 | 1.76 | 0.83 | 63.9 |
| 5/1/2015 3:45:58 | 43.96 | 41.26 | 1,159 | 1.74 | 0.24 | 63.4 |
| 5/1/2015 3:45:59 | 44.29 | 41.59 | 1,165 | 1.77 | 0.26 | 63.7 |
| 5/1/2015 3:45:59 | 44.62 | 41.92 | 1,165 | 1.77 | 0.26 | 63.7 |
| 5/1/2015 3:45:59 | 44.95 | 42.25 | 1,151 | 1.77 | 0.23 | 62.9 |
| 5/1/2015 3:46:00 | 45.28 | 42.58 | 1,151 | 1.77 | 0.23 | 62.9 |
| 5/1/2015 3:46:00 | 45.60 | 42.90 | 1,159 | 1.78 | 0.24 | 63.4 |
| 5/1/2015 3:46:00 | 45.93 | 43.23 | 1,159 | 1.78 | 0.24 | 63.4 |
| 5/1/2015 3:46:00 | 46.26 | 43.56 | 1,153 | 1.76 | 0.24 | 63.0 |
| 5/1/2015 3:46:01 | 46.59 | 43.89 | 1,165 | 1.74 | 0.24 | 63.7 |
| 5/1/2015 3:46:01 | 46.92 | 44.22 | 1,165 | 1.74 | 0.24 | 63.7 |
| 5/1/2015 3:46:01 | 47.24 | 44.54 | 1,165 | 1.79 | 0.24 | 63.7 |
| 5/1/2015 3:46:02 | 47.57 | 44.87 | 1,165 | 1.79 | 0.24 | 63.7 |
| 5/1/2015 3:46:02 | 47.90 | 45.20 | 1,180 | 1.76 | 0.24 | 64.5 |
| 5/1/2015 3:46:03 | 48.23 | 45.53 | 1,180 | 1.76 | 0.24 | 64.5 |
| 5/1/2015 3:46:02 | 48.56 | 45.86 | 1,190 | 1.75 | 0.24 | 65.1 |
| 5/1/2015 3:46:03 | 48.88 | 46.18 | 1,194 | 1.78 | 0.24 | 65.3 |
| 5/1/2015 3:46:04 | 49.21 | 46.51 | 1,194 | 1.78 | 0.24 | 65.3 |
| 5/1/2015 3:46:04 | 49.54 | 46.84 | 1,194 | 1.79 | 0.24 | 65.3 |
| 5/1/2015 3:46:04 | 49.87 | 47.17 | 1,194 | 1.79 | 0.24 | 65.3 |
| 5/1/2015 3:46:04 | 50.20 | 47.50 | 1,190 | 1.76 | 0.22 | 65.1 |
| 5/1/2015 3:46:05 | 50.53 | 47.83 | 1,173 | 1.14 | 0.20 | 64.2 |
| 5/1/2015 3:46:18 | 50.85 | 48.15 | 86 | 1.19 | 0.96 | 4.7 |
| 5/1/2015 3:46:18 | 51.18 | 48.48 | 180 | 1.17 | 0.90 | 9.8 |
| 5/1/2015 3:46:20 | 51.51 | 48.81 | 369 | 1.17 | 1.04 | 20.2 |
| 5/1/2015 3:46:24 | 51.84 | 49.14 | 52 | 1.19 | 1.04 | 2.8 |
| 5/1/2015 3:46:30 | 52.17 | 49.47 | 58 | 1.19 | 1.20 | 3.2 |
| 5/1/2015 3:46:37 | 52.49 | 49.79 | 52 | 1.06 | 1.15 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:46:39 | 52.82 | 50.12 | 144 | 1.13 | 1.14 | 7.9 |
| 5/1/2015 | 3:46:41 | 53.15 | 50.45 | 153 | 1.06 | 1.27 | 8.3 |
| 5/1/2015 | 3:46:43 | 53.48 | 50.78 | 164 | 1.14 | 1.27 | 9.0 |
| 5/1/2015 | 3:46:46 | 53.81 | 51.11 | 164 | 1.11 | 1.15 | 9.0 |
| 5/1/2015 | 3:46:47 | 54.13 | 51.43 | 191 | 1.08 | 1.11 | 10.4 |
| 5/1/2015 | 3:46:50 | 54.46 | 51.76 | 170 | 1.05 | 1.10 | 9.3 |
| 5/1/2015 | 3:46:51 | 54.79 | 52.09 | 180 | 1.09 | 1.05 | 9.8 |
| 5/1/2015 | 3:46:53 | 55.12 | 52.42 | 254 | 1.07 | 1.00 | 13.9 |
| 5/1/2015 | 3:46:54 | 55.45 | 52.75 | 250 | 1.11 | 1.10 | 13.7 |
| 5/1/2015 | 3:47:54 | 55.77 | 53.07 | 0 | 1.16 | 1.17 | 0.0 |
| 5/1/2015 | 3:47:59 | 56.10 | 53.40 | 96 | 1.07 | 1.16 | 5.2 |
| 5/1/2015 | 3:48:02 | 56.43 | 53.73 | 98 | 1.17 | 1.19 | 5.4 |
| 5/1/2015 | 3:48:05 | 56.76 | 54.06 | 106 | 1.13 | 1.12 | 5.8 |
| 5/1/2015 | 3:48:09 | 57.09 | 54.39 | 110 | 1.19 | 1.11 | 6.0 |
| 5/1/2015 | 3:48:12 | 57.41 | 54.71 | 121 | 1.09 | 1.00 | 6.6 |
| 5/1/2015 | 3:48:14 | 57.74 | 55.04 | 126 | 1.03 | 0.98 | 6.9 |
| 5/1/2015 | 3:48:17 | 58.06 | 55.36 | 154 | 0.64 | 0.97 | 8.4 |

## L76 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:43:23

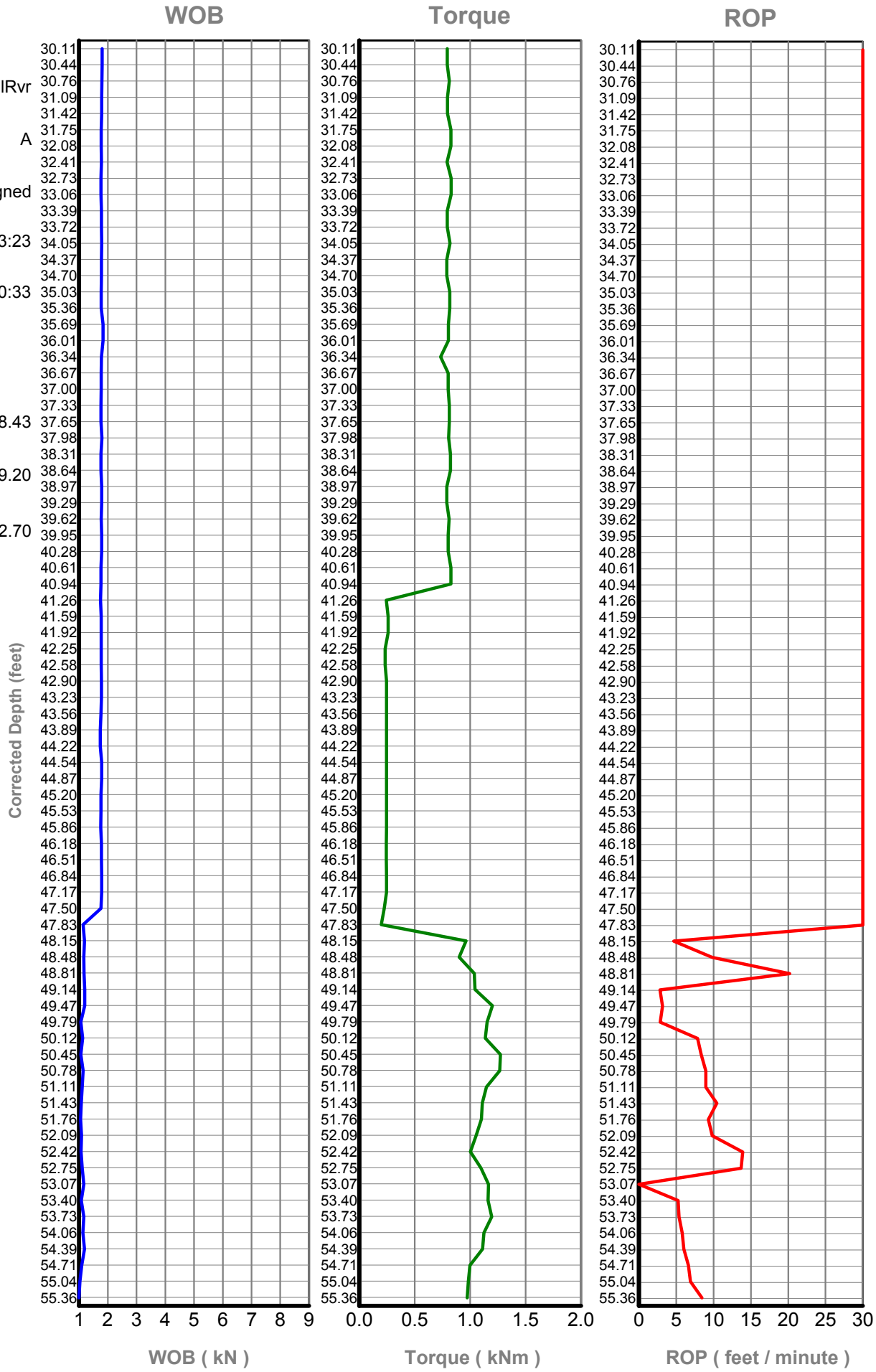
**End Date:**
5/1/2015 3:50:33

**Operator Note:**
'2.7 3 a Auto Complete'

**Northing:**
359,978.43

**Easting:**
242,409.20

**Tide (feet):**
2.70



## Hole: L77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:44:48 | 32.81 | 30.11 | 1,133 | 0.33 | 0.38 | 62.0 |
| 5/1/2015 3:44:49 | 33.14 | 30.44 | 1,133 | 0.33 | 0.38 | 62.0 |
| 5/1/2015 3:44:49 | 33.46 | 30.76 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:44:49 | 33.79 | 31.09 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:50 | 34.12 | 31.42 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:50 | 34.45 | 31.75 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 3:44:51 | 34.78 | 32.08 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 3:44:51 | 35.11 | 32.41 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 3:44:51 | 35.43 | 32.73 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:44:52 | 35.76 | 33.06 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/1/2015 3:44:52 | 36.09 | 33.39 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:44:52 | 36.42 | 33.72 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:44:52 | 36.75 | 34.05 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 3:44:53 | 37.07 | 34.37 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:44:53 | 37.40 | 34.70 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:44:53 | 37.73 | 35.03 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 3:44:54 | 38.06 | 35.36 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 3:44:54 | 38.39 | 35.69 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:54 | 38.71 | 36.01 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:44:55 | 39.04 | 36.34 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 3:44:55 | 39.37 | 36.67 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:55 | 39.70 | 37.00 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:55 | 40.03 | 37.33 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 3:44:56 | 40.35 | 37.65 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/1/2015 3:44:56 | 40.68 | 37.98 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/1/2015 3:44:56 | 41.01 | 38.31 | 1,148 | 0.32 | 0.39 | 62.8 |
| 5/1/2015 3:44:57 | 41.34 | 38.64 | 1,148 | 0.32 | 0.39 | 62.8 |
| 5/1/2015 3:44:57 | 41.67 | 38.97 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 3:44:57 | 41.99 | 39.29 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 3:44:58 | 42.32 | 39.62 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 3:44:58 | 42.65 | 39.95 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 3:44:58 | 42.98 | 40.28 | 1,152 | 0.31 | 0.38 | 63.0 |
| 5/1/2015 3:44:58 | 43.31 | 40.61 | 1,149 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 3:44:59 | 43.64 | 40.94 | 1,149 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 3:45:00 | 43.96 | 41.26 | 1,149 | 0.31 | 0.37 | 62.8 |
| 5/1/2015 3:44:59 | 44.29 | 41.59 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:45:00 | 44.62 | 41.92 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/1/2015 3:45:00 | 44.95 | 42.25 | 1,161 | 0.32 | 0.38 | 63.5 |
| 5/1/2015 3:45:01 | 45.28 | 42.58 | 1,161 | 0.32 | 0.38 | 63.5 |
| 5/1/2015 3:45:01 | 45.60 | 42.90 | 1,148 | 0.31 | 0.38 | 62.8 |
| 5/1/2015 3:45:01 | 45.93 | 43.23 | 1,151 | 0.31 | 0.39 | 62.9 |
| 5/1/2015 3:45:02 | 46.26 | 43.56 | 1,151 | 0.31 | 0.39 | 62.9 |
| 5/1/2015 3:45:02 | 46.59 | 43.89 | 1,144 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 3:45:02 | 46.92 | 44.22 | 1,144 | 0.31 | 0.38 | 62.5 |
| 5/1/2015 3:45:02 | 47.24 | 44.54 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/1/2015 3:45:03 | 47.57 | 44.87 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 3:45:03 | 47.90 | 45.20 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/1/2015 3:45:03 | 48.23 | 45.53 | 1,156 | 0.29 | 0.44 | 63.2 |
| 5/1/2015 3:45:07 | 48.56 | 45.86 | 0 | 2.76 | 0.40 | 0.0 |
| 5/1/2015 3:45:08 | 48.88 | 46.18 | 168 | 3.93 | 0.44 | 9.2 |
| 5/1/2015 3:45:25 | 49.21 | 46.51 | 0 | 2.76 | 0.45 | 0.0 |
| 5/1/2015 3:45:26 | 49.54 | 46.84 | 139 | 3.73 | 0.44 | 7.6 |
| 5/1/2015 3:45:28 | 49.87 | 47.17 | 202 | 4.12 | 0.46 | 11.1 |
| 5/1/2015 3:45:30 | 50.20 | 47.50 | 176 | 4.00 | 0.47 | 9.6 |
| 5/1/2015 3:45:33 | 50.53 | 47.83 | 148 | 4.75 | 0.47 | 8.1 |
| 5/1/2015 3:45:35 | 50.85 | 48.15 | 159 | 3.86 | 0.46 | 8.7 |
| 5/1/2015 3:45:37 | 51.18 | 48.48 | 195 | 4.48 | 0.45 | 10.7 |
| 5/1/2015 3:45:38 | 51.51 | 48.81 | 263 | 4.30 | 0.45 | 14.4 |
| 5/1/2015 3:45:39 | 51.84 | 49.14 | 301 | 6.03 | 0.46 | 16.4 |
| 5/1/2015 3:46:19 | 52.17 | 49.47 | 44 | 3.98 | 0.47 | 2.4 |
| 5/1/2015 3:46:30 | 52.49 | 49.79 | 29 | 2.82 | 0.48 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:46:43 | 52.82 | 50.12 | 32 | 3.09 | 0.47 | 1.7 |
| 5/1/2015 | 3:46:54 | 53.15 | 50.45 | 32 | 3.14 | 0.48 | 1.7 |
| 5/1/2015 | 3:46:59 | 53.29 | 50.59 | 28 | 3.21 | 0.47 | 1.5 |

## L77 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:43:21

**End Date:**
5/1/2015 3:48:13

**Operator Note:**
'2.7 3.1b Auto Complete'

**Northing:**
360,020.16

**Easting:**
242,471.52

**Tide (feet):**
2.70



## Hole: L78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 3:43:18 | 32.81 | 30.11 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 3:43:18 | 33.14 | 30.44 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:18 | 33.46 | 30.76 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:19 | 33.79 | 31.09 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:19 | 34.12 | 31.42 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:19 | 34.45 | 31.75 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:20 | 34.78 | 32.08 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:20 | 35.11 | 32.41 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:20 | 35.43 | 32.73 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:21 | 35.76 | 33.06 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:21 | 36.09 | 33.39 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:21 | 36.42 | 33.72 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:22 | 36.75 | 34.05 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:22 | 37.07 | 34.37 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 3:43:22 | 37.40 | 34.70 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 3:43:23 | 37.73 | 35.03 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 3:43:23 | 38.06 | 35.36 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 3:43:23 | 38.39 | 35.69 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:24 | 38.71 | 36.01 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:24 | 39.04 | 36.34 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:24 | 39.37 | 36.67 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:25 | 39.70 | 37.00 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:25 | 40.03 | 37.33 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 3:43:25 | 40.35 | 37.65 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:26 | 40.68 | 37.98 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:26 | 41.01 | 38.31 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 3:43:26 | 41.34 | 38.64 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 3:43:27 | 41.67 | 38.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 3:43:27 | 41.99 | 39.29 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 3:43:28 | 42.32 | 39.62 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:28 | 42.65 | 39.95 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:28 | 42.98 | 40.28 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:29 | 43.31 | 40.61 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 3:43:29 | 43.64 | 40.94 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 3:43:30 | 43.96 | 41.26 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 3:43:30 | 44.29 | 41.59 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 3:43:30 | 44.62 | 41.92 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 3:43:31 | 44.95 | 42.25 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 3:43:31 | 45.28 | 42.58 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 3:43:31 | 45.60 | 42.90 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:32 | 45.93 | 43.23 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:32 | 46.26 | 43.56 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 3:43:32 | 46.59 | 43.89 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 3:43:33 | 46.92 | 44.22 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 3:43:33 | 47.24 | 44.54 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 3:43:33 | 47.57 | 44.87 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 3:43:34 | 47.90 | 45.20 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 3:43:34 | 48.23 | 45.53 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 3:43:48 | 48.56 | 45.86 | 65 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 3:43:48 | 48.88 | 46.18 | 171 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 3:43:50 | 49.21 | 46.51 | 271 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 3:43:53 | 49.54 | 46.84 | 145 | 1.14 | 0.29 | 8.0 |
| 5/1/2015 3:43:55 | 49.87 | 47.17 | 163 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 3:43:59 | 50.20 | 47.50 | 105 | 1.14 | 0.29 | 5.7 |
| 5/1/2015 3:44:02 | 50.53 | 47.83 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 3:44:06 | 50.85 | 48.15 | 117 | 1.14 | 0.29 | 6.4 |
| 5/1/2015 3:44:08 | 51.18 | 48.48 | 131 | 1.14 | 0.29 | 7.2 |
| 5/1/2015 3:44:11 | 51.51 | 48.81 | 139 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 3:44:13 | 51.84 | 49.14 | 163 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 3:44:14 | 52.17 | 49.47 | 188 | 1.14 | 0.29 | 10.3 |
| 5/1/2015 3:44:17 | 52.49 | 49.79 | 144 | 1.14 | 0.29 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 3:44:21 | 52.82 | 50.12 | 84 | 1.14 | 0.29 | 4.6 |
| 5/1/2015 | 3:44:29 | 53.15 | 50.45 | 38 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 | 3:44:37 | 53.48 | 50.78 | 46 | 1.14 | 0.29 | 2.5 |
| 5/1/2015 | 3:44:46 | 53.81 | 51.11 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 3:44:52 | 54.13 | 51.43 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 3:44:53 | 54.21 | 51.51 | 93 | 1.14 | 0.29 | 5.1 |

## L78 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 3:42:18

**End Date:**
5/1/2015 3:46:18

**Operator Note:**
'2.7 3.1 c Auto Complete'

**Northing:**
360,061.89

**Easting:**
242,533.84

**Tide (feet):**
2.70



## Hole: L79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:20:15 | 35.43 | 30.23 | 1,147 | 1.66 | 0.24 | 62.7 |
| 5/1/2015 1:20:15 | 35.76 | 30.56 | 1,156 | 1.67 | 0.24 | 63.2 |
| 5/1/2015 1:20:15 | 36.09 | 30.89 | 1,151 | 1.66 | 0.23 | 62.9 |
| 5/1/2015 1:20:16 | 36.42 | 31.22 | 1,151 | 1.66 | 0.23 | 62.9 |
| 5/1/2015 1:20:16 | 36.75 | 31.55 | 1,151 | 1.38 | 0.25 | 62.9 |
| 5/1/2015 1:20:16 | 37.07 | 31.87 | 1,113 | 1.40 | 0.25 | 60.9 |
| 5/1/2015 1:20:17 | 37.40 | 32.20 | 1,113 | 1.40 | 0.25 | 60.9 |
| 5/1/2015 1:20:17 | 37.73 | 32.53 | 1,071 | 1.40 | 0.25 | 58.5 |
| 5/1/2015 1:20:17 | 38.06 | 32.86 | 1,012 | 1.40 | 0.25 | 55.3 |
| 5/1/2015 1:20:18 | 38.39 | 33.19 | 960 | 1.41 | 0.25 | 52.5 |
| 5/1/2015 1:20:19 | 38.71 | 33.51 | 960 | 1.41 | 0.25 | 52.5 |
| 5/1/2015 1:20:18 | 39.04 | 33.84 | 902 | 1.43 | 0.25 | 49.3 |
| 5/1/2015 1:20:20 | 39.37 | 34.17 | 769 | 1.44 | 0.25 | 42.0 |
| 5/1/2015 1:20:20 | 39.70 | 34.50 | 705 | 1.45 | 0.25 | 38.5 |
| 5/1/2015 1:20:21 | 40.03 | 34.83 | 625 | 1.44 | 0.25 | 34.2 |
| 5/1/2015 1:20:22 | 40.35 | 35.15 | 566 | 1.43 | 0.25 | 31.0 |
| 5/1/2015 1:20:22 | 40.68 | 35.48 | 537 | 1.43 | 0.25 | 29.4 |
| 5/1/2015 1:20:23 | 41.01 | 35.81 | 537 | 1.43 | 0.25 | 29.4 |
| 5/1/2015 1:20:23 | 41.34 | 36.14 | 530 | 1.41 | 0.25 | 29.0 |
| 5/1/2015 1:20:24 | 41.67 | 36.47 | 532 | 1.44 | 0.25 | 29.1 |
| 5/1/2015 1:20:25 | 41.99 | 36.79 | 532 | 1.42 | 0.25 | 29.1 |
| 5/1/2015 1:20:25 | 42.32 | 37.12 | 538 | 1.44 | 0.25 | 29.4 |
| 5/1/2015 1:20:26 | 42.65 | 37.45 | 535 | 1.43 | 0.25 | 29.2 |
| 5/1/2015 1:20:27 | 42.98 | 37.78 | 532 | 1.44 | 0.25 | 29.1 |
| 5/1/2015 1:20:27 | 43.31 | 38.11 | 529 | 1.44 | 0.25 | 28.9 |
| 5/1/2015 1:20:28 | 43.64 | 38.44 | 526 | 1.43 | 0.25 | 28.8 |
| 5/1/2015 1:20:29 | 43.96 | 38.76 | 532 | 1.42 | 0.25 | 29.1 |
| 5/1/2015 1:20:30 | 44.29 | 39.09 | 539 | 1.44 | 0.25 | 29.5 |
| 5/1/2015 1:20:30 | 44.62 | 39.42 | 542 | 1.43 | 0.25 | 29.6 |
| 5/1/2015 1:20:31 | 44.95 | 39.75 | 530 | 1.43 | 0.25 | 29.0 |
| 5/1/2015 1:20:32 | 45.28 | 40.08 | 528 | 1.53 | 0.24 | 28.9 |
| 5/1/2015 1:20:32 | 45.60 | 40.40 | 540 | 1.10 | 0.19 | 29.5 |
| 5/1/2015 1:20:33 | 45.93 | 40.73 | 531 | 1.07 | 0.19 | 29.0 |
| 5/1/2015 1:20:34 | 46.26 | 41.06 | 525 | 1.09 | 0.19 | 28.7 |
| 5/1/2015 1:20:43 | 46.59 | 41.39 | 17 | 1.07 | 0.19 | 0.9 |
| 5/1/2015 1:20:44 | 46.92 | 41.72 | 167 | 1.10 | 0.19 | 9.1 |
| 5/1/2015 1:20:44 | 47.24 | 42.04 | 320 | 1.11 | 0.19 | 17.5 |
| 5/1/2015 1:20:45 | 47.57 | 42.37 | 463 | 1.11 | 0.20 | 25.3 |
| 5/1/2015 1:20:45 | 47.90 | 42.70 | 610 | 1.10 | 0.19 | 33.3 |
| 5/1/2015 1:20:46 | 48.23 | 43.03 | 610 | 1.10 | 0.19 | 33.3 |
| 5/1/2015 1:20:46 | 48.56 | 43.36 | 732 | 1.11 | 0.19 | 40.0 |
| 5/1/2015 1:20:46 | 48.88 | 43.68 | 732 | 1.11 | 0.19 | 40.0 |
| 5/1/2015 1:20:47 | 49.21 | 44.01 | 732 | 1.10 | 0.19 | 40.0 |
| 5/1/2015 1:20:47 | 49.54 | 44.34 | 735 | 1.08 | 0.19 | 40.2 |
| 5/1/2015 1:20:48 | 49.87 | 44.67 | 733 | 1.08 | 0.19 | 40.1 |
| 5/1/2015 1:20:48 | 50.20 | 45.00 | 748 | 1.09 | 0.19 | 40.9 |
| 5/1/2015 1:20:49 | 50.53 | 45.33 | 743 | 1.36 | 0.19 | 40.6 |
| 5/1/2015 1:20:49 | 50.85 | 45.65 | 740 | 1.09 | 0.19 | 40.5 |
| 5/1/2015 1:20:50 | 51.18 | 45.98 | 737 | 1.09 | 0.19 | 40.3 |
| 5/1/2015 1:20:51 | 51.51 | 46.31 | 732 | 1.17 | 0.19 | 40.0 |
| 5/1/2015 1:21:06 | 51.84 | 46.64 | 98 | 1.14 | 1.56 | 5.3 |
| 5/1/2015 1:21:11 | 52.17 | 46.97 | 60 | 1.83 | 1.50 | 3.3 |
| 5/1/2015 1:21:17 | 52.49 | 47.29 | 32 | 0.99 | 1.32 | 1.7 |
| 5/1/2015 1:21:20 | 52.82 | 47.62 | 110 | 1.11 | 1.28 | 6.0 |
| 5/1/2015 1:21:24 | 53.15 | 47.95 | 84 | 1.10 | 1.29 | 4.6 |
| 5/1/2015 1:21:28 | 53.48 | 48.28 | 92 | 1.10 | 1.17 | 5.1 |
| 5/1/2015 1:21:33 | 53.81 | 48.61 | 76 | 1.06 | 1.20 | 4.2 |
| 5/1/2015 1:21:37 | 54.13 | 48.93 | 81 | 1.10 | 1.20 | 4.4 |
| 5/1/2015 1:21:41 | 54.46 | 49.26 | 78 | 1.09 | 1.31 | 4.3 |
| 5/1/2015 1:21:46 | 54.79 | 49.59 | 84 | 1.06 | 1.13 | 4.6 |
| 5/1/2015 1:21:49 | 55.12 | 49.92 | 110 | 1.06 | 1.23 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:21:51 | 55.45 | 50.25 | 156 | 1.04 | 1.29 | 8.5 |
| 5/1/2015 | 1:21:54 | 55.77 | 50.57 | 168 | 1.11 | 1.17 | 9.2 |
| 5/1/2015 | 1:21:56 | 56.10 | 50.90 | 171 | 1.03 | 1.05 | 9.4 |
| 5/1/2015 | 1:21:58 | 56.43 | 51.23 | 140 | 1.09 | 1.12 | 7.6 |
| 5/1/2015 | 1:22:00 | 56.76 | 51.56 | 153 | 0.99 | 1.16 | 8.4 |
| 5/1/2015 | 1:22:08 | 57.09 | 51.89 | 51 | 1.05 | 1.05 | 2.8 |
| 5/1/2015 | 1:22:11 | 57.41 | 52.21 | 105 | 1.07 | 1.00 | 5.7 |
| 5/1/2015 | 1:22:20 | 57.74 | 52.54 | 36 | 1.09 | 0.91 | 2.0 |
| 5/1/2015 | 1:22:34 | 58.07 | 52.87 | 11 | 1.08 | 0.85 | 0.6 |
| 5/1/2015 | 1:22:43 | 58.40 | 53.20 | 38 | 1.09 | 0.88 | 2.1 |
| 5/1/2015 | 1:22:53 | 58.73 | 53.53 | 35 | 1.07 | 0.85 | 1.9 |
| 5/1/2015 | 1:22:59 | 58.89 | 53.69 | 29 | 1.07 | 0.84 | 1.6 |

## L79 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:18:13

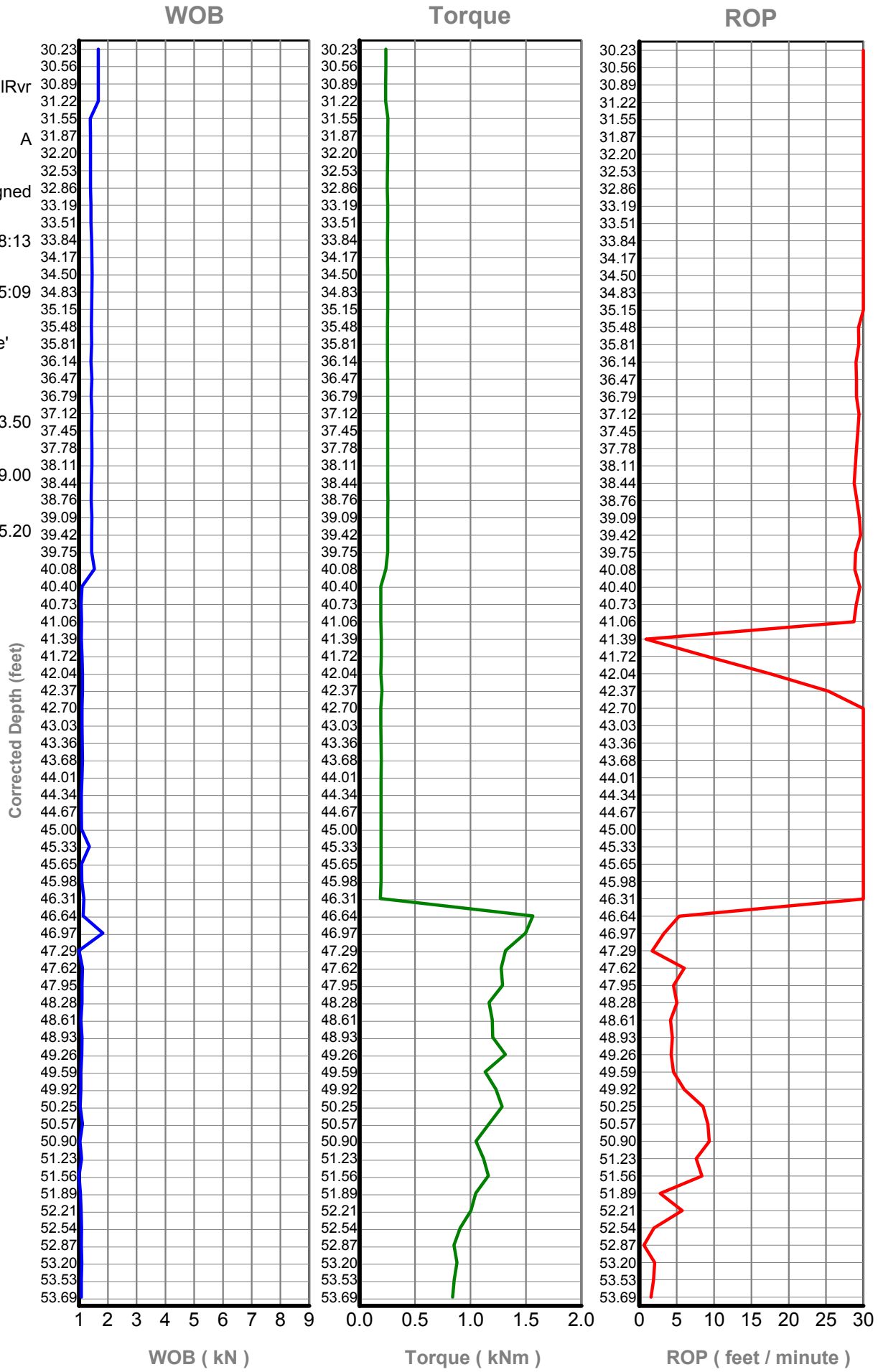
**End Date:**
5/1/2015 1:25:09

**Operator Note:**
'5.2 5.6 a Auto Complete'

**Northing:**
360,103.50

**Easting:**
242,599.00

**Tide (feet):**
5.20



## Hole: L8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:35:38 | 34.12 | 30.22 | 1,071 | 0.35 | 0.35 | 58.6 |
| 5/1/2015 2:35:38 | 34.45 | 30.55 | 1,071 | 0.34 | 0.39 | 58.6 |
| 5/1/2015 2:35:38 | 34.78 | 30.88 | 1,071 | 0.34 | 0.39 | 58.6 |
| 5/1/2015 2:35:38 | 35.11 | 31.21 | 1,065 | 0.35 | 0.38 | 58.2 |
| 5/1/2015 2:35:39 | 35.43 | 31.53 | 1,089 | 0.35 | 0.39 | 59.5 |
| 5/1/2015 2:35:39 | 35.76 | 31.86 | 1,089 | 0.35 | 0.39 | 59.5 |
| 5/1/2015 2:35:39 | 36.09 | 32.19 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 2:35:40 | 36.42 | 32.52 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:40 | 36.75 | 32.85 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:40 | 37.07 | 33.17 | 1,067 | 0.35 | 0.40 | 58.3 |
| 5/1/2015 2:35:41 | 37.40 | 33.50 | 1,076 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:41 | 37.73 | 33.83 | 1,076 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:41 | 38.06 | 34.16 | 1,070 | 0.34 | 0.39 | 58.5 |
| 5/1/2015 2:35:42 | 38.39 | 34.49 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:42 | 38.71 | 34.81 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:42 | 39.04 | 35.14 | 1,063 | 0.35 | 0.39 | 58.2 |
| 5/1/2015 2:35:43 | 39.37 | 35.47 | 1,063 | 0.35 | 0.39 | 58.2 |
| 5/1/2015 2:35:43 | 39.70 | 35.80 | 1,078 | 0.34 | 0.39 | 59.0 |
| 5/1/2015 2:35:43 | 40.03 | 36.13 | 1,069 | 0.34 | 0.39 | 58.5 |
| 5/1/2015 2:35:44 | 40.35 | 36.45 | 1,069 | 0.34 | 0.39 | 58.5 |
| 5/1/2015 2:35:44 | 40.68 | 36.78 | 1,073 | 0.34 | 0.39 | 58.7 |
| 5/1/2015 2:35:44 | 41.01 | 37.11 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 2:35:45 | 41.34 | 37.44 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 2:35:45 | 41.67 | 37.77 | 1,078 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 2:35:46 | 41.99 | 38.09 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:46 | 42.32 | 38.42 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:46 | 42.65 | 38.75 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:47 | 42.98 | 39.08 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:47 | 43.31 | 39.41 | 1,066 | 0.35 | 0.39 | 58.3 |
| 5/1/2015 2:35:47 | 43.64 | 39.74 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 2:35:48 | 43.96 | 40.06 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 2:35:48 | 44.29 | 40.39 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 2:35:48 | 44.62 | 40.72 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:49 | 44.95 | 41.05 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:49 | 45.28 | 41.38 | 1,067 | 0.35 | 0.39 | 58.3 |
| 5/1/2015 2:35:49 | 45.60 | 41.70 | 1,079 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 2:35:50 | 45.93 | 42.03 | 1,079 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 2:35:50 | 46.26 | 42.36 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 2:35:50 | 46.59 | 42.69 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 2:35:51 | 46.92 | 43.02 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 2:35:51 | 47.24 | 43.34 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:51 | 47.57 | 43.67 | 1,070 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 2:35:51 | 47.90 | 44.00 | 1,078 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 2:35:52 | 48.23 | 44.33 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:52 | 48.56 | 44.66 | 1,075 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 2:35:52 | 48.88 | 44.98 | 1,078 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 2:36:23 | 49.21 | 45.31 | 0 | 0.35 | 0.38 | 0.0 |
| 5/1/2015 2:36:23 | 49.54 | 45.64 | 82 | 0.35 | 0.39 | 4.5 |
| 5/1/2015 2:36:24 | 49.87 | 45.97 | 82 | 0.35 | 0.39 | 4.5 |
| 5/1/2015 2:36:24 | 50.20 | 46.30 | 302 | 0.35 | 0.38 | 16.5 |
| 5/1/2015 2:36:24 | 50.53 | 46.63 | 522 | 0.35 | 0.38 | 28.6 |
| 5/1/2015 2:36:25 | 50.85 | 46.95 | 522 | 0.35 | 0.38 | 28.6 |
| 5/1/2015 2:36:25 | 51.18 | 47.28 | 749 | 0.35 | 0.39 | 40.9 |
| 5/1/2015 2:36:25 | 51.51 | 47.61 | 966 | 0.35 | 0.40 | 52.8 |
| 5/1/2015 2:36:26 | 51.84 | 47.94 | 966 | 0.35 | 0.40 | 52.8 |
| 5/1/2015 2:36:26 | 52.17 | 48.27 | 1,092 | 0.34 | 0.43 | 59.7 |
| 5/1/2015 2:36:32 | 52.49 | 48.59 | 0 | 2.89 | 0.41 | 0.0 |
| 5/1/2015 2:36:32 | 52.82 | 48.92 | 20 | 3.16 | 0.42 | 1.1 |
| 5/1/2015 2:36:33 | 53.15 | 49.25 | 167 | 2.85 | 0.42 | 9.1 |
| 5/1/2015 2:36:33 | 53.48 | 49.58 | 304 | 2.88 | 0.42 | 16.6 |
| 5/1/2015 2:36:34 | 53.81 | 49.91 | 434 | 3.00 | 0.43 | 23.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:36:39 | 54.13 | 50.23 | 0 | 2.65 | 0.40 | 0.0 |
| 5/1/2015 | 2:36:40 | 54.46 | 50.56 | 156 | 2.95 | 0.44 | 8.5 |
| 5/1/2015 | 2:36:41 | 54.79 | 50.89 | 156 | 2.86 | 0.44 | 8.5 |
| 5/1/2015 | 2:36:42 | 55.12 | 51.22 | 335 | 3.00 | 0.46 | 18.3 |
| 5/1/2015 | 2:36:44 | 55.45 | 51.55 | 285 | 3.17 | 0.45 | 15.6 |
| 5/1/2015 | 2:36:44 | 55.77 | 51.87 | 236 | 3.12 | 0.43 | 12.9 |
| 5/1/2015 | 2:36:45 | 56.10 | 52.20 | 253 | 2.93 | 0.44 | 13.8 |
| 5/1/2015 | 2:36:46 | 56.43 | 52.53 | 327 | 2.82 | 0.43 | 17.9 |
| 5/1/2015 | 2:36:46 | 56.76 | 52.86 | 409 | 2.95 | 0.45 | 22.3 |
| 5/1/2015 | 2:36:51 | 57.09 | 53.19 | 123 | 3.25 | 0.46 | 6.7 |
| 5/1/2015 | 2:36:54 | 57.41 | 53.51 | 89 | 3.31 | 0.47 | 4.9 |
| 5/1/2015 | 2:36:58 | 57.74 | 53.84 | 78 | 3.45 | 0.45 | 4.3 |
| 5/1/2015 | 2:37:03 | 58.07 | 54.17 | 65 | 3.52 | 0.45 | 3.5 |
| 5/1/2015 | 2:37:05 | 58.40 | 54.50 | 125 | 3.45 | 0.45 | 6.9 |
| 5/1/2015 | 2:37:06 | 58.73 | 54.83 | 180 | 3.32 | 0.45 | 9.8 |
| 5/1/2015 | 2:37:07 | 59.06 | 55.16 | 225 | 3.60 | 0.47 | 12.3 |
| 5/1/2015 | 2:37:12 | 59.25 | 55.35 | 39 | 3.39 | 0.47 | 2.1 |

## L8 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 2:33:32

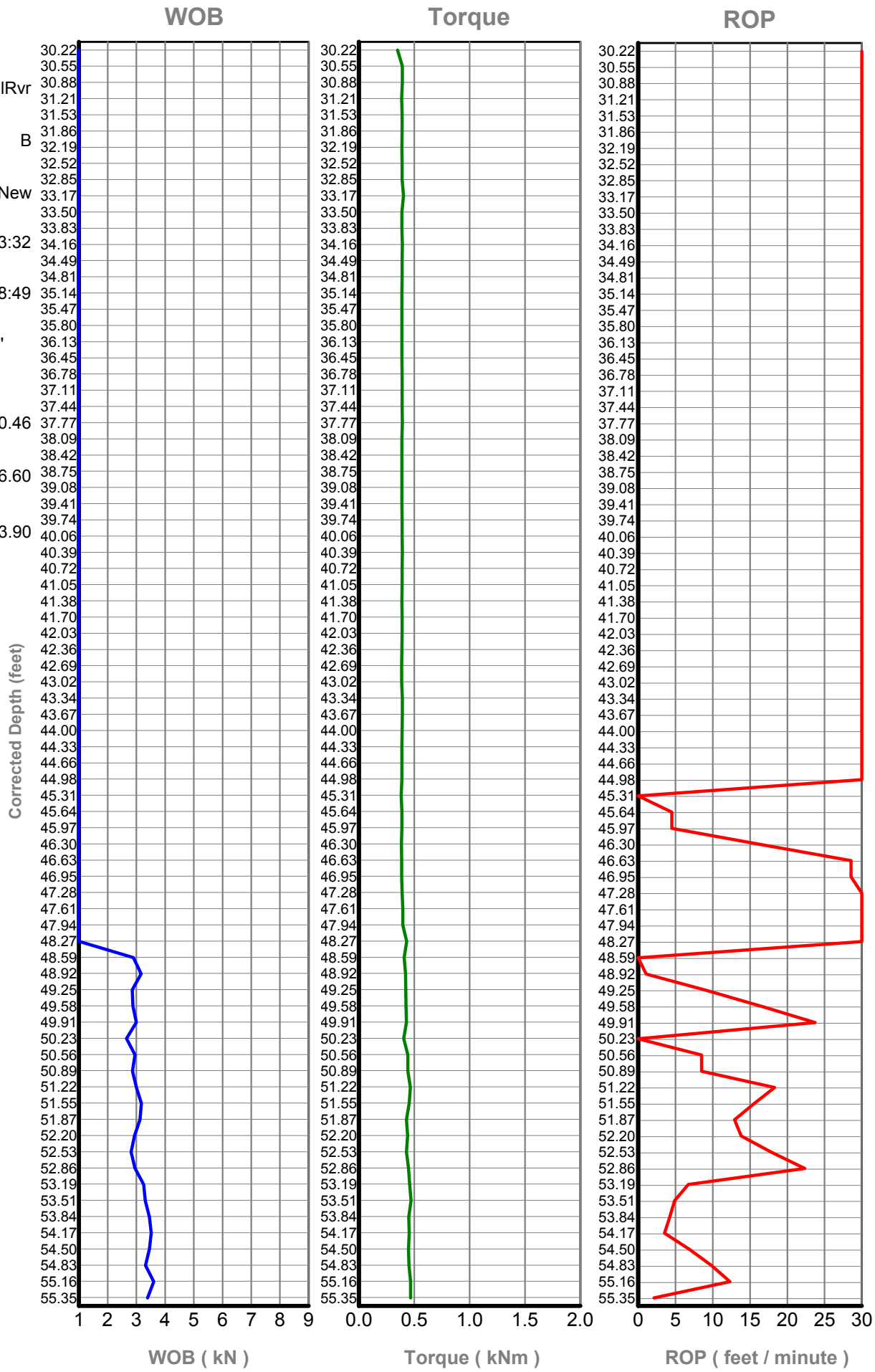
**End Date:**
5/1/2015 2:38:49

**Operator Note:**
'3.9 4.2b Auto Complete'

**Northing:**
360,270.46

**Easting:**
242,306.60

**Tide (feet):**
3.90



## Hole: L80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:21:18 | 35.43 | 30.23 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:21:18 | 35.76 | 30.56 | 1,126 | 0.31 | 0.37 | 61.6 |
| 5/1/2015 1:21:19 | 36.09 | 30.89 | 1,126 | 0.31 | 0.37 | 61.6 |
| 5/1/2015 1:21:19 | 36.42 | 31.22 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 1:21:20 | 36.75 | 31.55 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 1:21:20 | 37.07 | 31.87 | 1,122 | 0.31 | 0.37 | 61.4 |
| 5/1/2015 1:21:20 | 37.40 | 32.20 | 1,135 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 1:21:21 | 37.73 | 32.53 | 1,135 | 0.31 | 0.37 | 62.1 |
| 5/1/2015 1:21:21 | 38.06 | 32.86 | 1,129 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:21:21 | 38.39 | 33.19 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:21:22 | 38.71 | 33.51 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:21:22 | 39.04 | 33.84 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 1:21:22 | 39.37 | 34.17 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 1:21:22 | 39.70 | 34.50 | 1,127 | 0.31 | 0.37 | 61.6 |
| 5/1/2015 1:21:23 | 40.03 | 34.83 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 1:21:23 | 40.35 | 35.15 | 1,133 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 1:21:23 | 40.68 | 35.48 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:21:24 | 41.01 | 35.81 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 1:21:24 | 41.34 | 36.14 | 1,132 | 0.31 | 0.37 | 61.9 |
| 5/1/2015 1:21:24 | 41.67 | 36.47 | 1,129 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:21:25 | 41.99 | 36.79 | 1,129 | 0.31 | 0.37 | 61.7 |
| 5/1/2015 1:21:25 | 42.32 | 37.12 | 1,135 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 1:21:25 | 42.65 | 37.45 | 1,135 | 0.31 | 0.37 | 62.0 |
| 5/1/2015 1:21:25 | 42.98 | 37.78 | 1,119 | 0.31 | 0.37 | 61.2 |
| 5/1/2015 1:21:26 | 43.31 | 38.11 | 1,116 | 0.31 | 0.36 | 61.0 |
| 5/1/2015 1:21:26 | 43.64 | 38.44 | 1,116 | 0.31 | 0.36 | 61.0 |
| 5/1/2015 1:21:26 | 43.96 | 38.76 | 1,111 | 0.31 | 0.37 | 60.8 |
| 5/1/2015 1:21:27 | 44.29 | 39.09 | 1,111 | 0.31 | 0.37 | 60.8 |
| 5/1/2015 1:21:27 | 44.62 | 39.42 | 1,118 | 0.31 | 0.37 | 61.2 |
| 5/1/2015 1:21:27 | 44.95 | 39.75 | 1,103 | 0.31 | 0.37 | 60.3 |
| 5/1/2015 1:21:28 | 45.28 | 40.08 | 1,103 | 0.31 | 0.37 | 60.3 |
| 5/1/2015 1:21:28 | 45.60 | 40.40 | 1,115 | 0.31 | 0.37 | 61.0 |
| 5/1/2015 1:21:28 | 45.93 | 40.73 | 1,115 | 0.31 | 0.37 | 61.0 |
| 5/1/2015 1:21:28 | 46.26 | 41.06 | 1,115 | 0.31 | 0.37 | 61.0 |
| 5/1/2015 1:21:29 | 46.59 | 41.39 | 1,154 | 0.30 | 0.37 | 63.1 |
| 5/1/2015 1:21:30 | 46.92 | 41.72 | 1,154 | 0.30 | 0.37 | 63.1 |
| 5/1/2015 1:21:30 | 47.24 | 42.04 | 1,134 | 0.31 | 0.36 | 62.0 |
| 5/1/2015 1:21:30 | 47.57 | 42.37 | 1,134 | 0.31 | 0.36 | 62.0 |
| 5/1/2015 1:21:30 | 47.90 | 42.70 | 1,114 | 0.32 | 0.37 | 60.9 |
| 5/1/2015 1:21:31 | 48.23 | 43.03 | 1,114 | 0.31 | 0.37 | 60.9 |
| 5/1/2015 1:21:31 | 48.56 | 43.36 | 1,114 | 0.31 | 0.37 | 60.9 |
| 5/1/2015 1:21:31 | 48.88 | 43.68 | 1,143 | 0.31 | 0.37 | 62.5 |
| 5/1/2015 1:21:32 | 49.21 | 44.01 | 1,132 | 0.31 | 0.38 | 61.9 |
| 5/1/2015 1:21:32 | 49.54 | 44.34 | 1,132 | 0.31 | 0.38 | 61.9 |
| 5/1/2015 1:21:32 | 49.87 | 44.67 | 1,121 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 1:21:33 | 50.20 | 45.00 | 1,121 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 1:21:33 | 50.53 | 45.33 | 1,145 | 0.31 | 0.36 | 62.6 |
| 5/1/2015 1:21:33 | 50.85 | 45.65 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 1:21:34 | 51.18 | 45.98 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/1/2015 1:21:34 | 51.51 | 46.31 | 1,131 | 0.29 | 0.37 | 61.9 |
| 5/1/2015 1:21:34 | 51.84 | 46.64 | 1,131 | 0.29 | 0.37 | 61.9 |
| 5/1/2015 1:21:40 | 52.17 | 46.97 | 75 | 5.04 | 0.45 | 4.1 |
| 5/1/2015 1:21:51 | 52.49 | 47.29 | 37 | 3.75 | 0.46 | 2.0 |
| 5/1/2015 1:21:56 | 52.82 | 47.62 | 74 | 3.29 | 0.46 | 4.0 |
| 5/1/2015 1:22:01 | 53.15 | 47.95 | 70 | 3.53 | 0.46 | 3.8 |
| 5/1/2015 1:22:06 | 53.48 | 48.28 | 78 | 3.67 | 0.46 | 4.2 |
| 5/1/2015 1:22:11 | 53.81 | 48.61 | 68 | 3.52 | 0.46 | 3.7 |
| 5/1/2015 1:22:16 | 54.13 | 48.93 | 60 | 3.17 | 0.46 | 3.3 |
| 5/1/2015 1:22:23 | 54.46 | 49.26 | 47 | 2.99 | 0.46 | 2.6 |
| 5/1/2015 1:22:30 | 54.79 | 49.59 | 45 | 2.77 | 0.46 | 2.5 |

## L80 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:19:41

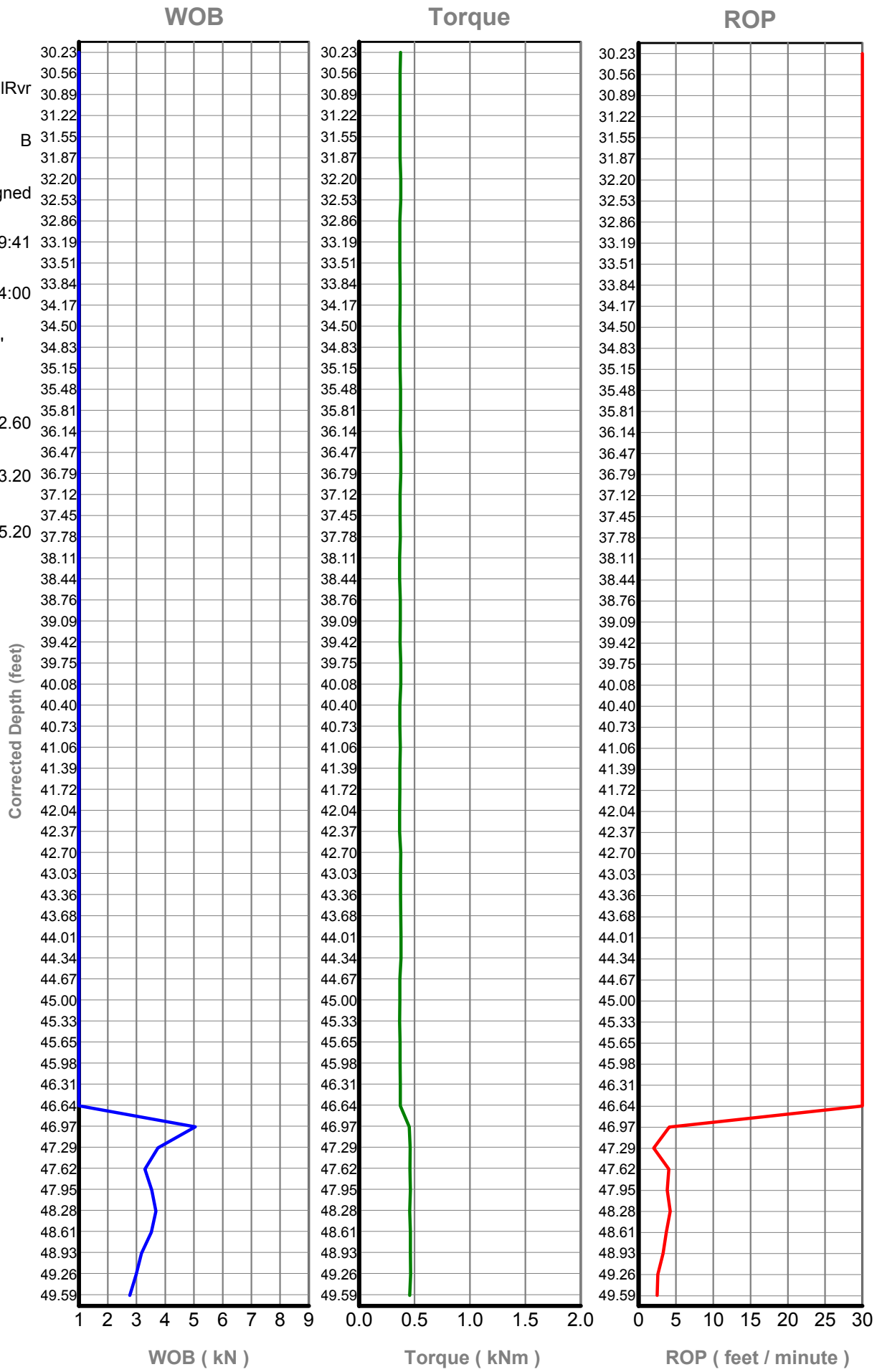
**End Date:**
5/1/2015 1:24:00

**Operator Note:**
'5.2 5.5b Auto Complete'

**Northing:**
360,142.60

**Easting:**
242,663.20

**Tide (feet):**
5.20



## Hole: L81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 1:19:36 | 35.43 | 30.23 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/1/2015 1:19:36 | 35.76 | 30.56 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 1:19:36 | 36.09 | 30.89 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:37 | 36.42 | 31.22 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:37 | 36.75 | 31.55 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:19:37 | 37.07 | 31.87 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:19:37 | 37.40 | 32.20 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:19:38 | 37.73 | 32.53 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:38 | 38.06 | 32.86 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:38 | 38.39 | 33.19 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:39 | 38.71 | 33.51 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:19:39 | 39.04 | 33.84 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/1/2015 1:19:39 | 39.37 | 34.17 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:40 | 39.70 | 34.50 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:40 | 40.03 | 34.83 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:41 | 40.35 | 35.15 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:41 | 40.68 | 35.48 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:41 | 41.01 | 35.81 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:41 | 41.34 | 36.14 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:42 | 41.67 | 36.47 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/1/2015 1:19:42 | 41.99 | 36.79 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:19:43 | 42.32 | 37.12 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:19:43 | 42.65 | 37.45 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/1/2015 1:19:43 | 42.98 | 37.78 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:19:44 | 43.31 | 38.11 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/1/2015 1:19:44 | 43.64 | 38.44 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:44 | 43.96 | 38.76 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:45 | 44.29 | 39.09 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:45 | 44.62 | 39.42 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:45 | 44.95 | 39.75 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:46 | 45.28 | 40.08 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:46 | 45.60 | 40.40 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:46 | 45.93 | 40.73 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:19:47 | 46.26 | 41.06 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 1:19:47 | 46.59 | 41.39 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:47 | 46.92 | 41.72 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:19:48 | 47.24 | 42.04 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:19:48 | 47.57 | 42.37 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:19:48 | 47.90 | 42.70 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:19:48 | 48.23 | 43.03 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 1:19:49 | 48.56 | 43.36 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:19:49 | 48.88 | 43.68 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:19:49 | 49.21 | 44.01 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/1/2015 1:19:50 | 49.54 | 44.34 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:19:50 | 49.87 | 44.67 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 1:19:50 | 50.20 | 45.00 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:51 | 50.53 | 45.33 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:51 | 50.85 | 45.65 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:51 | 51.18 | 45.98 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 1:19:52 | 51.51 | 46.31 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:53 | 51.84 | 46.64 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 1:19:53 | 52.17 | 46.97 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:53 | 52.49 | 47.29 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 1:19:53 | 52.82 | 47.62 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 1:19:54 | 53.15 | 47.95 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 1:20:06 | 53.48 | 48.28 | 27 | 1.14 | 0.29 | 1.5 |
| 5/1/2015 1:20:06 | 53.81 | 48.61 | 145 | 1.14 | 0.29 | 7.9 |
| 5/1/2015 1:20:07 | 54.13 | 48.93 | 270 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 1:20:18 | 54.46 | 49.26 | 36 | 1.14 | 0.29 | 2.0 |
| 5/1/2015 1:20:19 | 54.79 | 49.59 | 151 | 1.14 | 0.29 | 8.3 |
| 5/1/2015 1:20:20 | 55.12 | 49.92 | 281 | 1.14 | 0.29 | 15.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 1:20:21 | 55.45 | 50.25 | 347 | 1.14 | 0.29 | 19.0 |
| 5/1/2015 | 1:20:32 | 55.77 | 50.57 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 1:20:33 | 56.10 | 50.90 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 1:20:34 | 56.43 | 51.23 | 154 | 1.14 | 0.29 | 8.4 |
| 5/1/2015 | 1:20:35 | 56.76 | 51.56 | 318 | 1.14 | 0.29 | 17.4 |
| 5/1/2015 | 1:20:35 | 57.09 | 51.89 | 401 | 1.14 | 0.29 | 21.9 |
| 5/1/2015 | 1:20:36 | 57.41 | 52.21 | 424 | 1.14 | 0.29 | 23.2 |
| 5/1/2015 | 1:20:37 | 57.74 | 52.54 | 424 | 1.14 | 0.29 | 23.2 |
| 5/1/2015 | 1:20:37 | 58.07 | 52.87 | 460 | 1.14 | 0.29 | 25.2 |
| 5/1/2015 | 1:20:38 | 58.40 | 53.20 | 498 | 1.14 | 0.29 | 27.3 |
| 5/1/2015 | 1:20:38 | 58.73 | 53.53 | 498 | 1.14 | 0.29 | 27.3 |
| 5/1/2015 | 1:20:40 | 59.06 | 53.86 | 559 | 1.14 | 0.29 | 30.6 |
| 5/1/2015 | 1:20:46 | 59.38 | 54.18 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 1:20:47 | 59.71 | 54.51 | 170 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 | 1:20:47 | 60.04 | 54.84 | 293 | 1.14 | 0.29 | 16.0 |
| 5/1/2015 | 1:20:48 | 60.37 | 55.17 | 445 | 1.14 | 0.29 | 24.3 |
| 5/1/2015 | 1:20:48 | 60.61 | 55.41 | 577 | 1.14 | 0.29 | 31.5 |

## L81 - Summary

**Pattern Number:**
AreaL_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 1:18:31

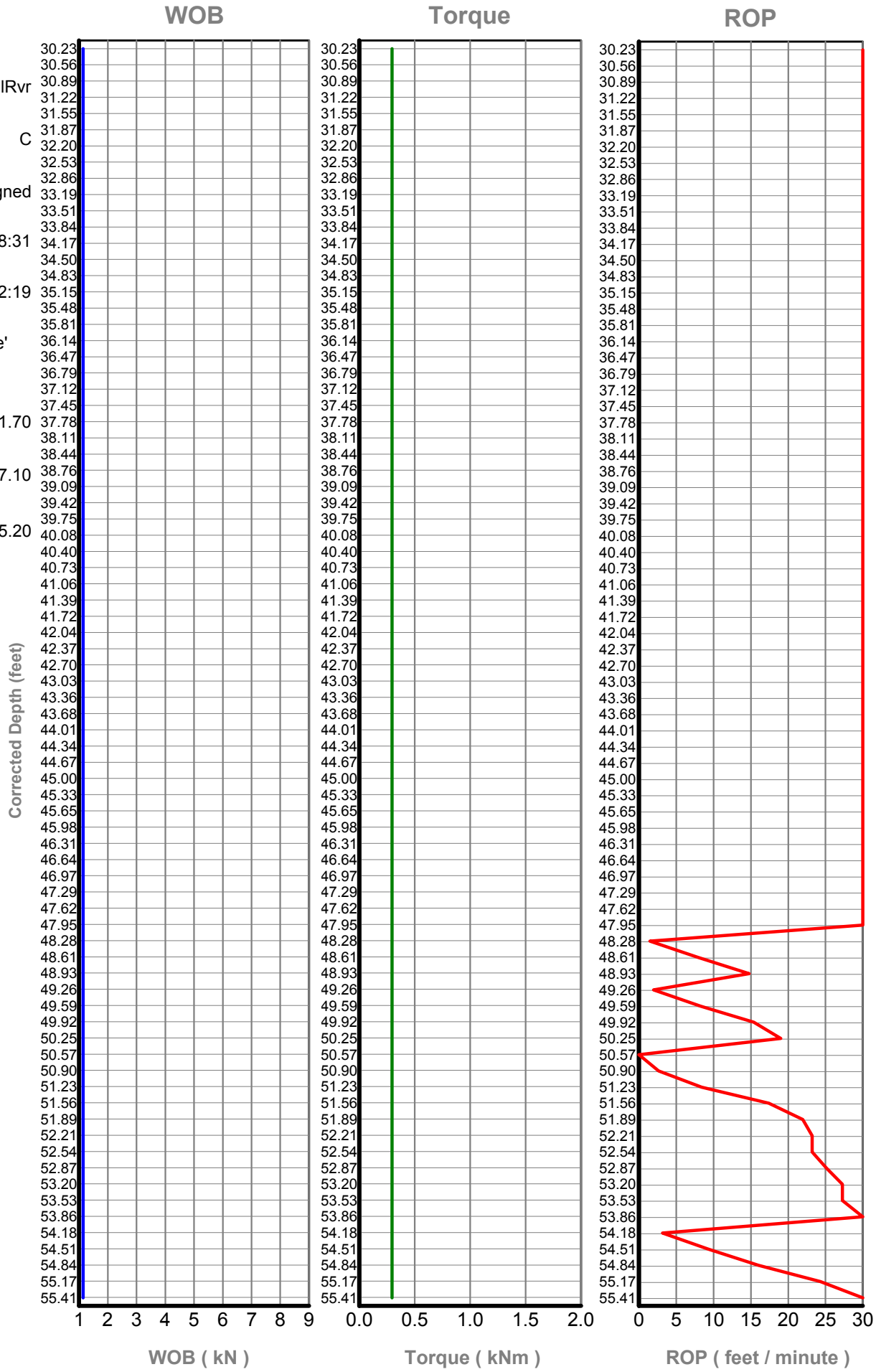
**End Date:**
5/1/2015 1:22:19

**Operator Note:**
'5.2 5.5 c Auto Complete'

**Northing:**
360,181.70

**Easting:**
242,727.10

**Tide (feet):**
5.20



## Hole: L82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:53:34 | 36.75 | 30.05 | 749 | 1.09 | 0.76 | 40.9 |
| 4/30/2015 22:53:34 | 37.07 | 30.37 | 747 | 1.10 | 0.75 | 40.8 |
| 4/30/2015 22:53:35 | 37.40 | 30.70 | 728 | 1.10 | 0.78 | 39.8 |
| 4/30/2015 22:53:35 | 37.73 | 31.03 | 728 | 1.09 | 0.75 | 39.8 |
| 4/30/2015 22:53:36 | 38.06 | 31.36 | 728 | 1.09 | 0.75 | 39.8 |
| 4/30/2015 22:53:36 | 38.39 | 31.69 | 742 | 1.10 | 0.75 | 40.6 |
| 4/30/2015 22:53:36 | 38.71 | 32.01 | 741 | 1.09 | 0.75 | 40.5 |
| 4/30/2015 22:53:37 | 39.04 | 32.34 | 744 | 1.08 | 0.75 | 40.7 |
| 4/30/2015 22:53:37 | 39.37 | 32.67 | 744 | 1.09 | 0.80 | 40.7 |
| 4/30/2015 22:53:38 | 39.70 | 33.00 | 769 | 1.11 | 0.78 | 42.0 |
| 4/30/2015 22:53:38 | 40.03 | 33.33 | 748 | 1.09 | 0.73 | 40.9 |
| 4/30/2015 22:53:39 | 40.35 | 33.65 | 755 | 1.09 | 0.76 | 41.3 |
| 4/30/2015 22:53:39 | 40.68 | 33.98 | 754 | 1.09 | 0.75 | 41.2 |
| 4/30/2015 22:53:40 | 41.01 | 34.31 | 751 | 1.11 | 0.75 | 41.0 |
| 4/30/2015 22:53:40 | 41.34 | 34.64 | 744 | 1.09 | 0.79 | 40.7 |
| 4/30/2015 22:53:41 | 41.67 | 34.97 | 753 | 1.09 | 0.75 | 41.2 |
| 4/30/2015 22:53:41 | 41.99 | 35.29 | 753 | 1.09 | 0.75 | 41.2 |
| 4/30/2015 22:53:41 | 42.32 | 35.62 | 743 | 1.11 | 0.77 | 40.6 |
| 4/30/2015 22:53:42 | 42.65 | 35.95 | 746 | 1.09 | 0.74 | 40.8 |
| 4/30/2015 22:53:42 | 42.98 | 36.28 | 746 | 1.11 | 0.74 | 40.8 |
| 4/30/2015 22:53:43 | 43.31 | 36.61 | 746 | 1.10 | 0.74 | 40.8 |
| 4/30/2015 22:53:44 | 43.64 | 36.94 | 746 | 1.10 | 0.74 | 40.8 |
| 4/30/2015 22:53:44 | 43.96 | 37.26 | 742 | 1.08 | 0.75 | 40.6 |
| 4/30/2015 22:53:45 | 44.29 | 37.59 | 742 | 1.09 | 0.76 | 40.6 |
| 4/30/2015 22:53:45 | 44.62 | 37.92 | 745 | 1.09 | 0.74 | 40.7 |
| 4/30/2015 22:53:46 | 44.95 | 38.25 | 745 | 1.10 | 0.81 | 40.7 |
| 4/30/2015 22:53:46 | 45.28 | 38.58 | 747 | 1.09 | 0.78 | 40.8 |
| 4/30/2015 22:53:47 | 45.60 | 38.90 | 743 | 1.09 | 0.75 | 40.6 |
| 4/30/2015 22:53:47 | 45.93 | 39.23 | 746 | 1.08 | 0.75 | 40.8 |
| 4/30/2015 22:53:48 | 46.26 | 39.56 | 746 | 1.08 | 0.75 | 40.8 |
| 4/30/2015 22:53:48 | 46.59 | 39.89 | 740 | 1.09 | 0.75 | 40.5 |
| 4/30/2015 22:53:48 | 46.92 | 40.22 | 740 | 1.09 | 0.76 | 40.5 |
| 4/30/2015 22:53:49 | 47.24 | 40.54 | 736 | 1.11 | 0.78 | 40.2 |
| 4/30/2015 22:53:49 | 47.57 | 40.87 | 743 | 1.11 | 0.75 | 40.6 |
| 4/30/2015 22:53:50 | 47.90 | 41.20 | 740 | 1.09 | 0.74 | 40.5 |
| 4/30/2015 22:53:50 | 48.23 | 41.53 | 736 | 1.11 | 0.75 | 40.2 |
| 4/30/2015 22:53:51 | 48.56 | 41.86 | 732 | 1.10 | 0.76 | 40.0 |
| 4/30/2015 22:53:51 | 48.88 | 42.18 | 739 | 1.11 | 0.78 | 40.4 |
| 4/30/2015 22:53:52 | 49.21 | 42.51 | 741 | 1.07 | 0.18 | 40.5 |
| 4/30/2015 22:53:52 | 49.54 | 42.84 | 741 | 1.11 | 0.20 | 40.5 |
| 4/30/2015 22:53:53 | 49.87 | 43.17 | 743 | 1.09 | 0.20 | 40.7 |
| 4/30/2015 22:53:54 | 50.20 | 43.50 | 755 | 1.09 | 0.20 | 41.3 |
| 4/30/2015 22:53:54 | 50.53 | 43.83 | 755 | 1.09 | 0.20 | 41.3 |
| 4/30/2015 22:53:54 | 50.85 | 44.15 | 748 | 1.10 | 0.19 | 40.9 |
| 4/30/2015 22:53:55 | 51.18 | 44.48 | 743 | 1.09 | 0.20 | 40.6 |
| 4/30/2015 22:53:55 | 51.51 | 44.81 | 743 | 1.10 | 0.20 | 40.6 |
| 4/30/2015 22:53:56 | 51.84 | 45.14 | 743 | 1.11 | 0.20 | 40.6 |
| 4/30/2015 22:53:56 | 52.17 | 45.47 | 740 | 1.10 | 0.19 | 40.5 |
| 4/30/2015 22:53:57 | 52.49 | 45.79 | 740 | 1.07 | 0.19 | 40.5 |
| 4/30/2015 22:53:57 | 52.82 | 46.12 | 736 | 1.09 | 0.19 | 40.2 |
| 4/30/2015 22:53:58 | 53.15 | 46.45 | 740 | 1.13 | 0.20 | 40.5 |
| 4/30/2015 22:54:13 | 53.48 | 46.78 | 0 | 1.13 | 0.84 | 0.0 |
| 4/30/2015 22:54:14 | 53.81 | 47.11 | 60 | 1.13 | 1.26 | 3.3 |
| 4/30/2015 22:54:15 | 54.13 | 47.43 | 246 | 1.17 | 1.40 | 13.5 |
| 4/30/2015 22:54:18 | 54.46 | 47.76 | 207 | 1.19 | 1.61 | 11.3 |
| 4/30/2015 22:54:19 | 54.79 | 48.09 | 191 | 1.15 | 1.43 | 10.4 |
| 4/30/2015 22:54:41 | 55.12 | 48.42 | 67 | 1.09 | 1.29 | 3.7 |
| 4/30/2015 22:54:42 | 55.45 | 48.75 | 173 | 1.11 | 0.97 | 9.4 |
| 4/30/2015 22:54:43 | 55.77 | 49.07 | 286 | 1.15 | 1.18 | 15.6 |
| 4/30/2015 22:54:46 | 56.10 | 49.40 | 153 | 1.11 | 0.99 | 8.3 |
| 4/30/2015 22:54:46 | 56.43 | 49.73 | 178 | 1.00 | 1.07 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:54:47 | 56.76 | 50.06 | 369 | 1.07 | 0.99 | 20.2 |
| 4/30/2015 | 22:54:48 | 57.09 | 50.39 | 424 | 0.58 | 1.38 | 23.2 |
| 4/30/2015 | 22:55:11 | 57.41 | 50.71 | 47 | 0.98 | 0.94 | 2.6 |
| 4/30/2015 | 22:55:12 | 57.74 | 51.04 | 233 | 0.99 | 0.72 | 12.7 |
| 4/30/2015 | 22:55:13 | 58.07 | 51.37 | 333 | 1.08 | 0.88 | 18.2 |
| 4/30/2015 | 22:55:16 | 58.40 | 51.70 | 65 | 2.00 | 0.89 | 3.5 |
| 4/30/2015 | 22:55:17 | 58.73 | 52.03 | 219 | 1.00 | 1.12 | 12.0 |
| 4/30/2015 | 22:55:18 | 59.06 | 52.36 | 352 | 1.05 | 0.97 | 19.3 |
| 4/30/2015 | 22:55:19 | 59.38 | 52.68 | 331 | 1.07 | 1.21 | 18.1 |
| 4/30/2015 | 22:55:24 | 59.71 | 53.01 | 0 | 1.75 | 1.53 | 0.0 |
| 4/30/2015 | 22:55:25 | 60.04 | 53.34 | 130 | 1.11 | 1.65 | 7.1 |
| 4/30/2015 | 22:55:26 | 60.37 | 53.67 | 260 | 1.00 | 1.20 | 14.2 |
| 4/30/2015 | 22:55:28 | 60.70 | 54.00 | 338 | 1.05 | 1.06 | 18.5 |
| 4/30/2015 | 22:55:32 | 61.02 | 54.32 | 14 | 1.12 | 0.97 | 0.8 |
| 4/30/2015 | 22:55:32 | 61.35 | 54.65 | 80 | 1.83 | 0.87 | 4.4 |
| 4/30/2015 | 22:55:33 | 61.68 | 54.98 | 245 | 0.96 | 0.73 | 13.4 |
| 4/30/2015 | 22:55:33 | 61.77 | 55.07 | 245 | 0.96 | 0.73 | 13.4 |

## L82 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:51:27

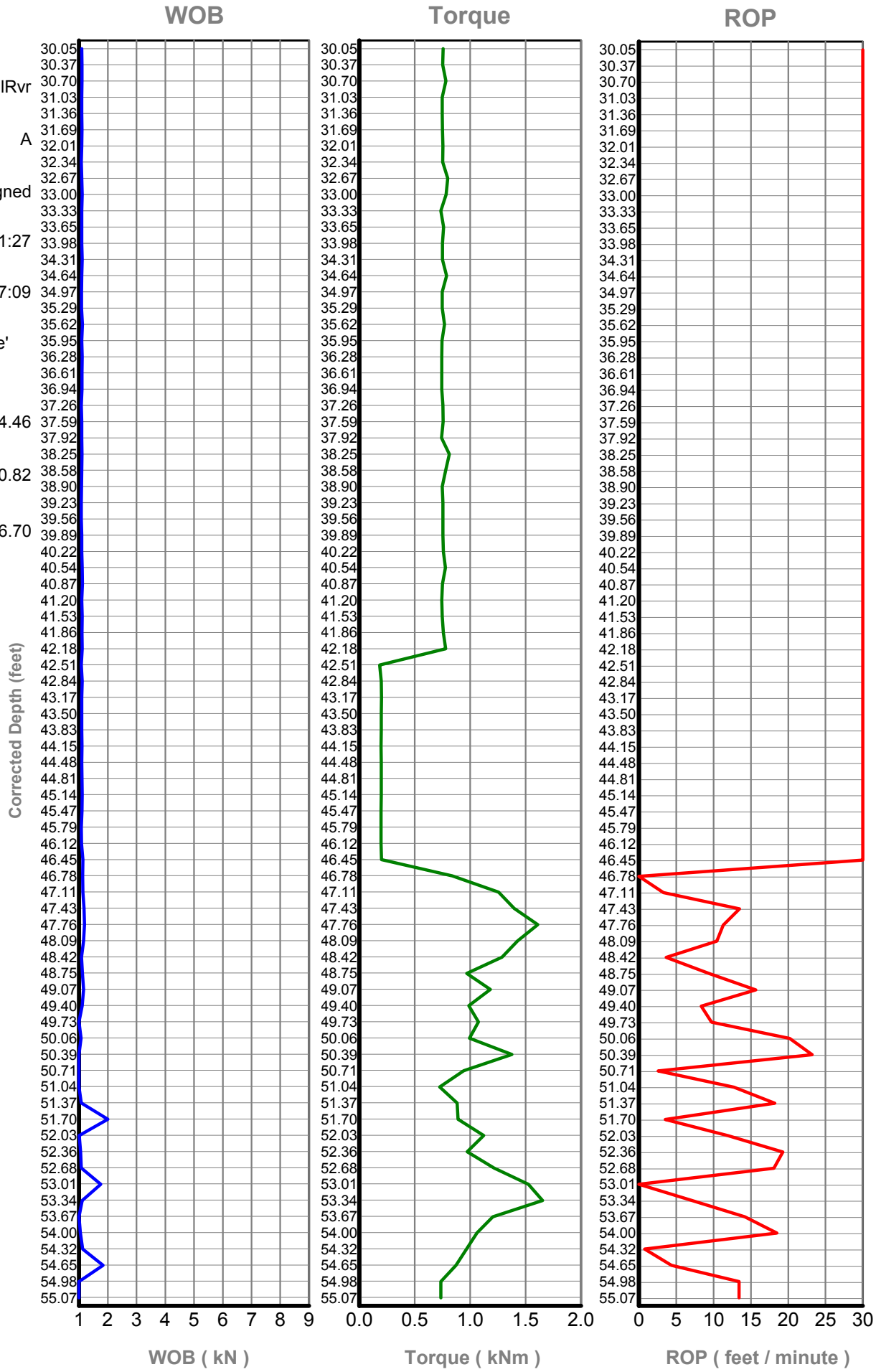
**End Date:**
4/30/2015 22:57:09

**Operator Note:**
'6.7 6.6 a Auto Complete'

**Northing:**
360,224.46

**Easting:**
242,790.82

**Tide (feet):**
6.70



## Hole: L83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:54:47 | 36.75 | 30.05 | 1,149 | 0.29 | 0.37 | 62.8 |
| 4/30/2015 22:54:47 | 37.07 | 30.37 | 1,149 | 0.29 | 0.37 | 62.8 |
| 4/30/2015 22:54:47 | 37.40 | 30.70 | 1,153 | 0.54 | 0.38 | 63.1 |
| 4/30/2015 22:54:48 | 37.73 | 31.03 | 1,151 | 0.30 | 0.37 | 62.9 |
| 4/30/2015 22:54:48 | 38.06 | 31.36 | 1,151 | 0.30 | 0.37 | 62.9 |
| 4/30/2015 22:54:48 | 38.39 | 31.69 | 1,156 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 22:54:49 | 38.71 | 32.01 | 1,156 | 0.30 | 0.37 | 63.2 |
| 4/30/2015 22:54:49 | 39.04 | 32.34 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 22:54:49 | 39.37 | 32.67 | 1,159 | 0.31 | 0.37 | 63.4 |
| 4/30/2015 22:54:49 | 39.70 | 33.00 | 1,172 | 0.30 | 0.38 | 64.1 |
| 4/30/2015 22:54:50 | 40.03 | 33.33 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 22:54:50 | 40.35 | 33.65 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 22:54:50 | 40.68 | 33.98 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 22:54:51 | 41.01 | 34.31 | 1,171 | 0.31 | 0.37 | 64.0 |
| 4/30/2015 22:54:51 | 41.34 | 34.64 | 1,158 | 0.31 | 0.37 | 63.3 |
| 4/30/2015 22:54:52 | 41.67 | 34.97 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:54:52 | 41.99 | 35.29 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:54:52 | 42.32 | 35.62 | 1,154 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:54:53 | 42.65 | 35.95 | 1,154 | 0.31 | 0.37 | 63.1 |
| 4/30/2015 22:54:53 | 42.98 | 36.28 | 1,168 | 0.33 | 0.37 | 63.9 |
| 4/30/2015 22:54:53 | 43.31 | 36.61 | 1,168 | 0.33 | 0.37 | 63.9 |
| 4/30/2015 22:54:53 | 43.64 | 36.94 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:54:54 | 43.96 | 37.26 | 1,181 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 22:54:54 | 44.29 | 37.59 | 1,181 | 0.31 | 0.37 | 64.6 |
| 4/30/2015 22:54:54 | 44.62 | 37.92 | 1,178 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 22:54:55 | 44.95 | 38.25 | 1,178 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 22:54:55 | 45.28 | 38.58 | 1,182 | 0.33 | 0.37 | 64.6 |
| 4/30/2015 22:54:55 | 45.60 | 38.90 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:54:56 | 45.93 | 39.23 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:54:56 | 46.26 | 39.56 | 1,168 | 0.31 | 0.36 | 63.9 |
| 4/30/2015 22:54:56 | 46.59 | 39.89 | 1,168 | 0.31 | 0.36 | 63.9 |
| 4/30/2015 22:54:56 | 46.92 | 40.22 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:54:57 | 47.24 | 40.54 | 1,165 | 0.31 | 0.36 | 63.7 |
| 4/30/2015 22:54:57 | 47.57 | 40.87 | 1,165 | 0.31 | 0.36 | 63.7 |
| 4/30/2015 22:54:57 | 47.90 | 41.20 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:54:58 | 48.23 | 41.53 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:54:58 | 48.56 | 41.86 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 22:54:58 | 48.88 | 42.18 | 1,174 | 0.31 | 0.37 | 64.2 |
| 4/30/2015 22:54:58 | 49.21 | 42.51 | 1,164 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:54:59 | 49.54 | 42.84 | 1,172 | 0.31 | 0.38 | 64.1 |
| 4/30/2015 22:54:59 | 49.87 | 43.17 | 1,172 | 0.31 | 0.38 | 64.1 |
| 4/30/2015 22:54:59 | 50.20 | 43.50 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:55:00 | 50.53 | 43.83 | 1,165 | 0.31 | 0.37 | 63.7 |
| 4/30/2015 22:55:00 | 50.85 | 44.15 | 1,168 | 0.31 | 0.37 | 63.9 |
| 4/30/2015 22:55:00 | 51.18 | 44.48 | 1,166 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 22:55:01 | 51.51 | 44.81 | 1,166 | 0.31 | 0.37 | 63.8 |
| 4/30/2015 22:55:01 | 51.84 | 45.14 | 1,176 | 0.31 | 0.38 | 64.3 |
| 4/30/2015 22:55:01 | 52.17 | 45.47 | 1,176 | 0.31 | 0.38 | 64.3 |
| 4/30/2015 22:55:01 | 52.49 | 45.79 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:55:02 | 52.82 | 46.12 | 1,161 | 0.31 | 0.37 | 63.5 |
| 4/30/2015 22:55:02 | 53.15 | 46.45 | 1,178 | 0.31 | 0.37 | 64.4 |
| 4/30/2015 22:55:06 | 53.48 | 46.78 | 0 | 5.23 | 0.43 | 0.0 |
| 4/30/2015 22:55:07 | 53.81 | 47.11 | 122 | 3.39 | 0.41 | 6.7 |
| 4/30/2015 22:55:07 | 54.13 | 47.43 | 225 | 2.63 | 0.39 | 12.3 |
| 4/30/2015 22:55:08 | 54.46 | 47.76 | 405 | 5.19 | 0.46 | 22.1 |
| 4/30/2015 22:55:11 | 54.79 | 48.09 | 74 | 3.60 | 0.44 | 4.0 |
| 4/30/2015 22:55:13 | 55.12 | 48.42 | 188 | 3.52 | 0.46 | 10.3 |
| 4/30/2015 22:55:16 | 55.45 | 48.75 | 87 | 5.28 | 0.53 | 4.7 |
| 4/30/2015 22:55:22 | 55.77 | 49.07 | 61 | 6.21 | 0.47 | 3.3 |
| 4/30/2015 22:55:29 | 56.10 | 49.40 | 91 | 4.32 | 0.43 | 5.0 |
| 4/30/2015 22:55:30 | 56.43 | 49.73 | 185 | 3.73 | 0.44 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:55:31 | 56.76 | 50.06 | 335 | 4.88 | 0.44 | 18.3 |
| 4/30/2015 | 22:55:33 | 57.09 | 50.39 | 234 | 3.61 | 0.44 | 12.8 |
| 4/30/2015 | 22:55:34 | 57.41 | 50.71 | 288 | 3.66 | 0.45 | 15.8 |
| 4/30/2015 | 22:55:35 | 57.74 | 51.04 | 326 | 4.63 | 0.44 | 17.9 |
| 4/30/2015 | 22:55:36 | 58.07 | 51.37 | 382 | 3.66 | 0.42 | 20.9 |
| 4/30/2015 | 22:55:36 | 58.40 | 51.70 | 447 | 2.49 | 0.41 | 24.4 |
| 4/30/2015 | 22:55:37 | 58.73 | 52.03 | 497 | 2.53 | 0.44 | 27.2 |
| 4/30/2015 | 22:55:37 | 59.06 | 52.36 | 506 | 2.42 | 0.45 | 27.7 |
| 4/30/2015 | 22:55:38 | 59.38 | 52.68 | 489 | 2.42 | 0.45 | 26.7 |
| 4/30/2015 | 22:55:39 | 59.71 | 53.01 | 367 | 2.48 | 0.44 | 20.1 |
| 4/30/2015 | 22:55:40 | 60.04 | 53.34 | 376 | 2.65 | 0.44 | 20.6 |
| 4/30/2015 | 22:55:43 | 60.37 | 53.67 | 132 | 2.47 | 0.43 | 7.2 |
| 4/30/2015 | 22:55:45 | 60.70 | 54.00 | 162 | 3.96 | 0.46 | 8.9 |
| 4/30/2015 | 22:55:46 | 61.02 | 54.32 | 271 | 3.92 | 0.46 | 14.8 |
| 4/30/2015 | 22:55:48 | 61.35 | 54.65 | 241 | 3.77 | 0.45 | 13.2 |
| 4/30/2015 | 22:55:48 | 61.57 | 54.87 | 232 | 3.60 | 0.44 | 12.7 |

## L83 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:53:17

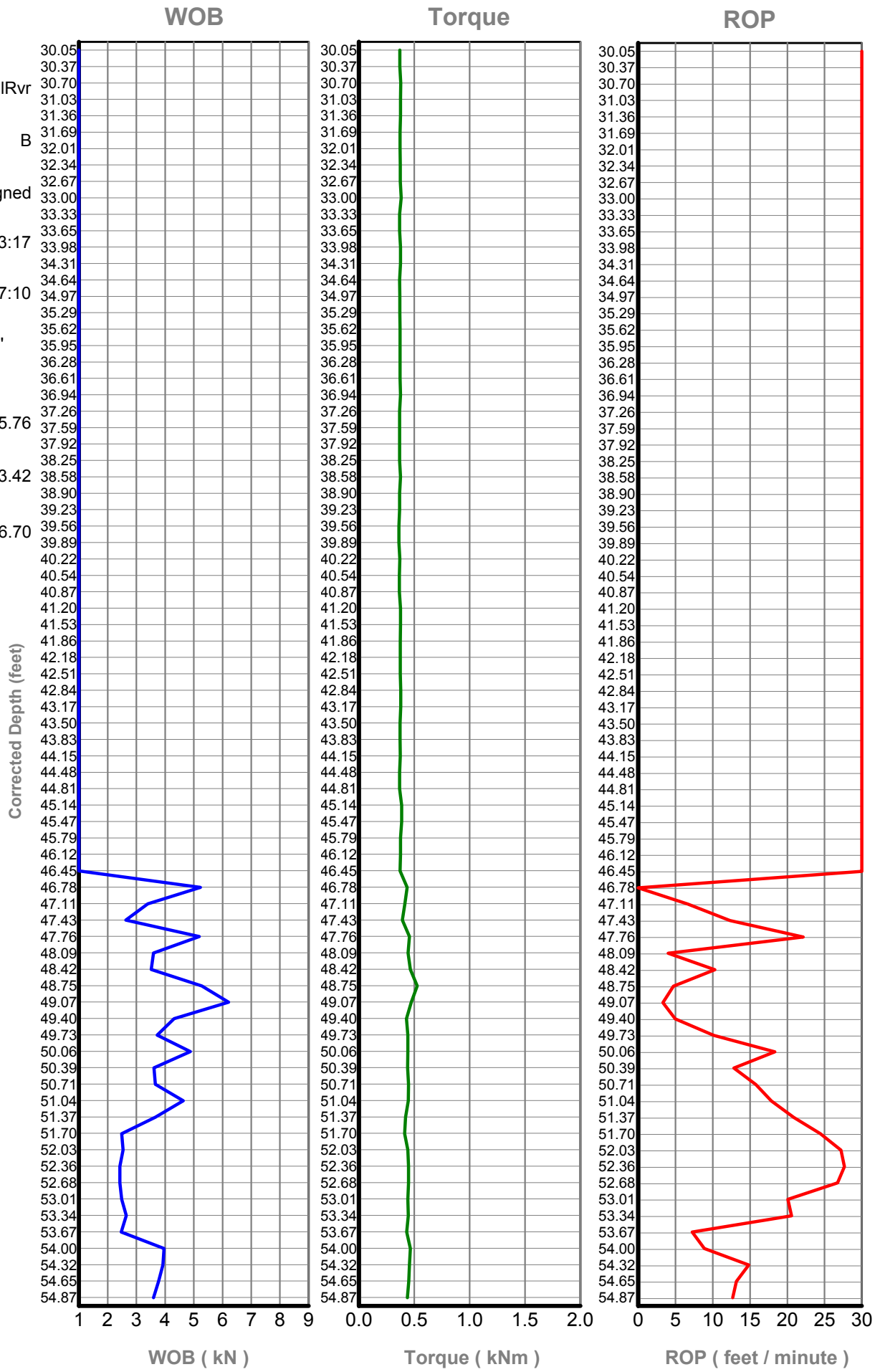
**End Date:**
4/30/2015 22:57:10

**Operator Note:**
'6.7 6.6b Auto Complete'

**Northing:**
360,265.76

**Easting:**
242,853.42

**Tide (feet):**
6.70



## Hole: L84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 22:52:46 | 36.75 | 30.05 | 1,047 | 1.14 | 0.29 | 57.2 |
| 4/30/2015 22:52:46 | 37.07 | 30.37 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:47 | 37.40 | 30.70 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:47 | 37.73 | 31.03 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:47 | 38.06 | 31.36 | 1,058 | 1.14 | 0.29 | 57.8 |
| 4/30/2015 22:52:48 | 38.39 | 31.69 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:48 | 38.71 | 32.01 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:48 | 39.04 | 32.34 | 1,070 | 1.14 | 0.29 | 58.5 |
| 4/30/2015 22:52:49 | 39.37 | 32.67 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:49 | 39.70 | 33.00 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:49 | 40.03 | 33.33 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:50 | 40.35 | 33.65 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:50 | 40.68 | 33.98 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:50 | 41.01 | 34.31 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:51 | 41.34 | 34.64 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:51 | 41.67 | 34.97 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:51 | 41.99 | 35.29 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:52 | 42.32 | 35.62 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:52 | 42.65 | 35.95 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:52 | 42.98 | 36.28 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:53 | 43.31 | 36.61 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:53 | 43.64 | 36.94 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:53 | 43.96 | 37.26 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:54 | 44.29 | 37.59 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:54 | 44.62 | 37.92 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:54 | 44.95 | 38.25 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:55 | 45.28 | 38.58 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:55 | 45.60 | 38.90 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:55 | 45.93 | 39.23 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:56 | 46.26 | 39.56 | 1,068 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:56 | 46.59 | 39.89 | 1,059 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:57 | 46.92 | 40.22 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:57 | 47.24 | 40.54 | 1,064 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:57 | 47.57 | 40.87 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:58 | 47.90 | 41.20 | 1,061 | 1.14 | 0.29 | 58.0 |
| 4/30/2015 22:52:58 | 48.23 | 41.53 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:52:58 | 48.56 | 41.86 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:59 | 48.88 | 42.18 | 1,058 | 1.14 | 0.29 | 57.9 |
| 4/30/2015 22:52:59 | 49.21 | 42.51 | 1,067 | 1.14 | 0.29 | 58.4 |
| 4/30/2015 22:52:59 | 49.54 | 42.84 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:53:00 | 49.87 | 43.17 | 1,065 | 1.14 | 0.29 | 58.2 |
| 4/30/2015 22:53:00 | 50.20 | 43.50 | 1,056 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 22:53:00 | 50.53 | 43.83 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 22:53:01 | 50.85 | 44.15 | 1,062 | 1.14 | 0.29 | 58.1 |
| 4/30/2015 22:53:01 | 51.18 | 44.48 | 1,043 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 22:53:01 | 51.51 | 44.81 | 1,043 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 22:53:02 | 51.84 | 45.14 | 1,043 | 1.14 | 0.29 | 57.0 |
| 4/30/2015 22:53:02 | 52.17 | 45.47 | 1,049 | 1.14 | 0.29 | 57.4 |
| 4/30/2015 22:53:02 | 52.49 | 45.79 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 22:53:03 | 52.82 | 46.12 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 22:53:03 | 53.15 | 46.45 | 1,037 | 1.14 | 0.29 | 56.7 |
| 4/30/2015 22:53:03 | 53.48 | 46.78 | 1,054 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 22:53:04 | 53.81 | 47.11 | 1,054 | 1.14 | 0.29 | 57.7 |
| 4/30/2015 22:53:11 | 54.13 | 47.43 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 22:53:12 | 54.46 | 47.76 | 102 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 22:53:13 | 54.79 | 48.09 | 269 | 1.14 | 0.29 | 14.7 |
| 4/30/2015 22:53:23 | 55.12 | 48.42 | 29 | 1.14 | 0.29 | 1.6 |
| 4/30/2015 22:53:24 | 55.45 | 48.75 | 171 | 1.14 | 0.29 | 9.3 |
| 4/30/2015 22:53:25 | 55.77 | 49.07 | 268 | 1.14 | 0.29 | 14.6 |
| 4/30/2015 22:53:31 | 56.10 | 49.40 | 73 | 1.14 | 0.29 | 4.0 |
| 4/30/2015 22:53:32 | 56.43 | 49.73 | 235 | 1.14 | 0.29 | 12.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 22:53:33 | 56.76 | 50.06 | 323 | 1.14 | 0.29 | 17.7 |
| 4/30/2015 | 22:53:34 | 57.09 | 50.39 | 427 | 1.14 | 0.29 | 23.4 |
| 4/30/2015 | 22:53:34 | 57.41 | 50.71 | 454 | 1.14 | 0.29 | 24.8 |
| 4/30/2015 | 22:53:46 | 57.74 | 51.04 | 31 | 1.14 | 0.29 | 1.7 |
| 4/30/2015 | 22:53:47 | 58.07 | 51.37 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 | 22:53:47 | 58.40 | 51.70 | 122 | 1.14 | 0.29 | 6.7 |
| 4/30/2015 | 22:53:47 | 58.73 | 52.03 | 259 | 1.14 | 0.29 | 14.2 |
| 4/30/2015 | 22:53:48 | 59.06 | 52.36 | 406 | 1.14 | 0.29 | 22.2 |
| 4/30/2015 | 22:53:49 | 59.38 | 52.68 | 501 | 1.14 | 0.29 | 27.4 |
| 4/30/2015 | 22:53:49 | 59.71 | 53.01 | 598 | 1.14 | 0.29 | 32.7 |
| 4/30/2015 | 22:53:50 | 60.04 | 53.34 | 626 | 1.14 | 0.29 | 34.2 |
| 4/30/2015 | 22:53:50 | 60.37 | 53.67 | 610 | 1.14 | 0.29 | 33.4 |
| 4/30/2015 | 22:53:51 | 60.70 | 54.00 | 610 | 1.14 | 0.29 | 33.4 |
| 4/30/2015 | 22:53:51 | 61.02 | 54.32 | 592 | 1.14 | 0.29 | 32.4 |
| 4/30/2015 | 22:53:52 | 61.35 | 54.65 | 606 | 1.14 | 0.29 | 33.2 |
| 4/30/2015 | 22:53:53 | 61.68 | 54.98 | 640 | 1.14 | 0.29 | 35.0 |
| 4/30/2015 | 22:53:53 | 61.84 | 55.14 | 640 | 1.14 | 0.29 | 35.0 |

## L84 - Summary

**Pattern Number:**
AreaL_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 22:51:26

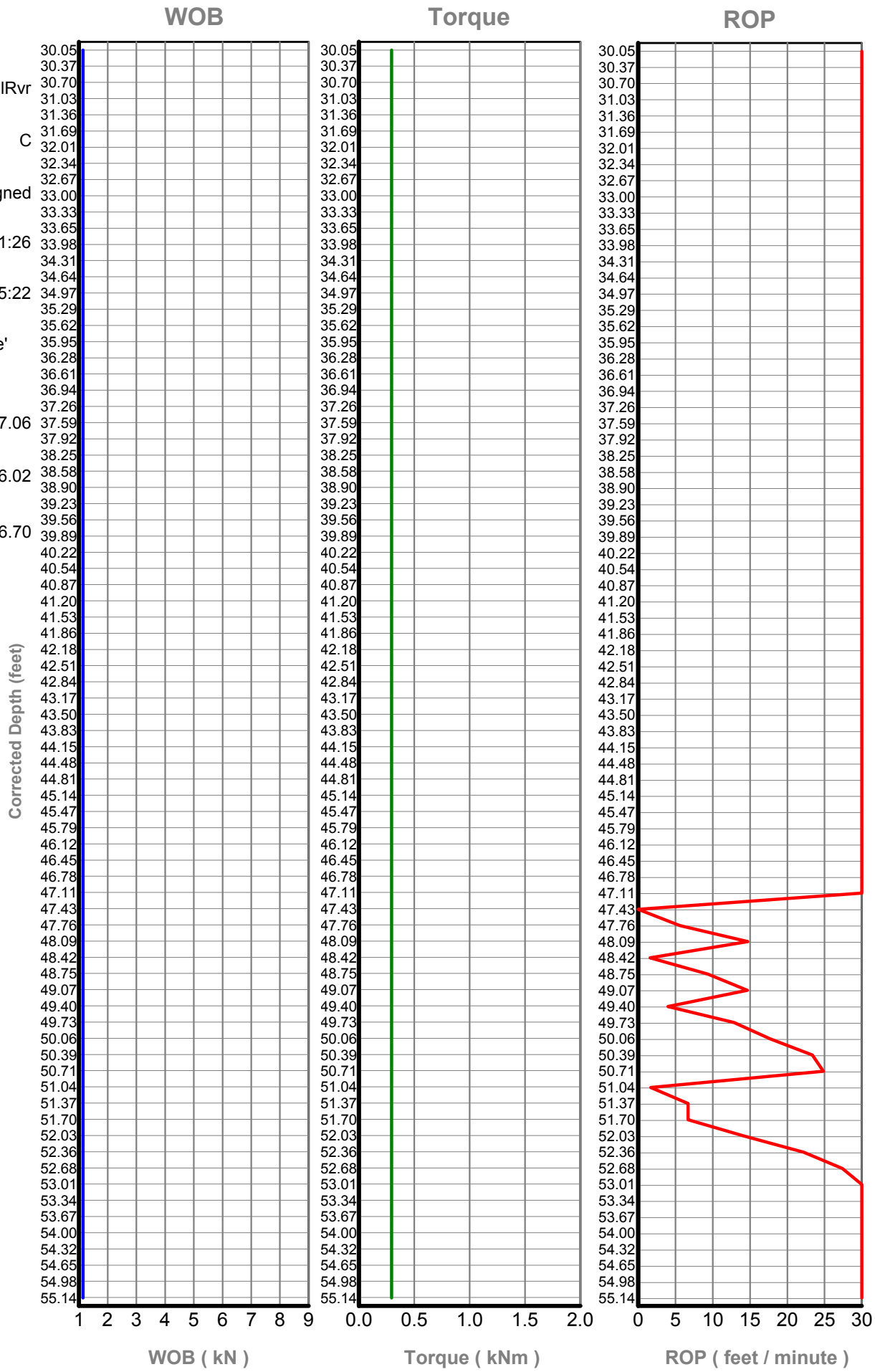
**End Date:**
4/30/2015 22:55:22

**Operator Note:**
'6.7 6.6 c Auto Complete'

**Northing:**
360,307.06

**Easting:**
242,916.02

**Tide (feet):**
6.70



## Hole: L85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:41:59 | 36.42 | 30.32 | 731 | 1.11 | 0.21 | 40.0 |
| 4/30/2015 21:42:00 | 36.75 | 30.65 | 731 | 1.13 | 0.20 | 40.0 |
| 4/30/2015 21:42:00 | 37.07 | 30.97 | 727 | 1.12 | 0.20 | 39.7 |
| 4/30/2015 21:42:01 | 37.40 | 31.30 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:42:01 | 37.73 | 31.63 | 724 | 1.14 | 0.20 | 39.6 |
| 4/30/2015 21:42:02 | 38.06 | 31.96 | 734 | 1.12 | 0.20 | 40.2 |
| 4/30/2015 21:42:02 | 38.39 | 32.29 | 734 | 1.19 | 0.20 | 40.2 |
| 4/30/2015 21:42:03 | 38.71 | 32.61 | 736 | 1.10 | 0.20 | 40.2 |
| 4/30/2015 21:42:03 | 39.04 | 32.94 | 734 | 1.11 | 0.20 | 40.2 |
| 4/30/2015 21:42:04 | 39.37 | 33.27 | 740 | 1.14 | 0.19 | 40.5 |
| 4/30/2015 21:42:04 | 39.70 | 33.60 | 740 | 1.14 | 0.19 | 40.5 |
| 4/30/2015 21:42:04 | 40.03 | 33.93 | 734 | 1.12 | 0.20 | 40.1 |
| 4/30/2015 21:42:05 | 40.35 | 34.25 | 734 | 1.10 | 0.20 | 40.1 |
| 4/30/2015 21:42:06 | 40.68 | 34.58 | 730 | 1.11 | 0.20 | 39.9 |
| 4/30/2015 21:42:06 | 41.01 | 34.91 | 734 | 1.12 | 0.20 | 40.1 |
| 4/30/2015 21:42:07 | 41.34 | 35.24 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:42:07 | 41.67 | 35.57 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:42:08 | 41.99 | 35.89 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:42:08 | 42.32 | 36.22 | 728 | 1.11 | 0.21 | 39.8 |
| 4/30/2015 21:42:09 | 42.65 | 36.55 | 726 | 1.12 | 0.20 | 39.7 |
| 4/30/2015 21:42:09 | 42.98 | 36.88 | 728 | 1.09 | 0.20 | 39.8 |
| 4/30/2015 21:42:10 | 43.31 | 37.21 | 724 | 1.13 | 0.20 | 39.6 |
| 4/30/2015 21:42:10 | 43.64 | 37.54 | 728 | 1.12 | 0.20 | 39.8 |
| 4/30/2015 21:42:11 | 43.96 | 37.86 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:42:11 | 44.29 | 38.19 | 728 | 1.11 | 0.20 | 39.8 |
| 4/30/2015 21:42:12 | 44.62 | 38.52 | 721 | 1.11 | 0.20 | 39.4 |
| 4/30/2015 21:42:12 | 44.95 | 38.85 | 729 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:42:13 | 45.28 | 39.18 | 729 | 1.13 | 0.20 | 39.8 |
| 4/30/2015 21:42:13 | 45.60 | 39.50 | 729 | 1.12 | 0.20 | 39.8 |
| 4/30/2015 21:42:13 | 45.93 | 39.83 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:42:14 | 46.26 | 40.16 | 718 | 1.13 | 0.20 | 39.2 |
| 4/30/2015 21:42:14 | 46.59 | 40.49 | 724 | 1.13 | 0.20 | 39.6 |
| 4/30/2015 21:42:15 | 46.92 | 40.82 | 724 | 1.11 | 0.20 | 39.6 |
| 4/30/2015 21:42:16 | 47.24 | 41.14 | 724 | 1.12 | 0.20 | 39.6 |
| 4/30/2015 21:42:16 | 47.57 | 41.47 | 719 | 1.11 | 0.20 | 39.3 |
| 4/30/2015 21:42:17 | 47.90 | 41.80 | 727 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:42:17 | 48.23 | 42.13 | 731 | 1.11 | 0.20 | 40.0 |
| 4/30/2015 21:42:18 | 48.56 | 42.46 | 724 | 1.11 | 0.20 | 39.6 |
| 4/30/2015 21:42:18 | 48.88 | 42.78 | 719 | 1.12 | 0.20 | 39.3 |
| 4/30/2015 21:42:19 | 49.21 | 43.11 | 726 | 1.11 | 0.20 | 39.7 |
| 4/30/2015 21:42:19 | 49.54 | 43.44 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:42:20 | 49.87 | 43.77 | 723 | 1.07 | 0.20 | 39.5 |
| 4/30/2015 21:42:20 | 50.20 | 44.10 | 727 | 1.13 | 0.20 | 39.7 |
| 4/30/2015 21:42:21 | 50.53 | 44.43 | 733 | 1.11 | 0.20 | 40.1 |
| 4/30/2015 21:42:21 | 50.85 | 44.75 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:42:22 | 51.18 | 45.08 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:42:22 | 51.51 | 45.41 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:42:22 | 51.84 | 45.74 | 723 | 1.11 | 0.20 | 39.5 |
| 4/30/2015 21:42:43 | 52.17 | 46.07 | 0 | 1.12 | 1.51 | 0.0 |
| 4/30/2015 21:42:52 | 52.49 | 46.39 | 0 | 1.09 | 1.47 | 0.0 |
| 4/30/2015 21:42:54 | 52.82 | 46.72 | 137 | 1.15 | 1.43 | 7.5 |
| 4/30/2015 21:42:56 | 53.15 | 47.05 | 194 | 1.07 | 1.26 | 10.6 |
| 4/30/2015 21:42:57 | 53.48 | 47.38 | 281 | 1.08 | 1.16 | 15.4 |
| 4/30/2015 21:43:04 | 53.81 | 47.71 | 50 | 1.06 | 1.65 | 2.7 |
| 4/30/2015 21:43:05 | 54.13 | 48.03 | 108 | 2.01 | 1.08 | 5.9 |
| 4/30/2015 21:43:05 | 54.46 | 48.36 | 264 | 1.11 | 1.18 | 14.5 |
| 4/30/2015 21:43:23 | 54.79 | 48.69 | 114 | 1.19 | 1.15 | 6.2 |
| 4/30/2015 21:43:27 | 55.12 | 49.02 | 57 | 1.12 | 1.31 | 3.1 |
| 4/30/2015 21:43:29 | 55.45 | 49.35 | 155 | 1.91 | 1.90 | 8.5 |
| 4/30/2015 21:43:30 | 55.77 | 49.67 | 256 | 1.05 | 1.21 | 14.0 |
| 4/30/2015 21:43:31 | 56.10 | 50.00 | 302 | 1.07 | 1.16 | 16.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:43:33 | 56.43 | 50.33 | 272 | 1.14 | 0.96 | 14.9 |
| 4/30/2015 | 21:43:34 | 56.76 | 50.66 | 290 | 0.99 | 1.03 | 15.8 |
| 4/30/2015 | 21:43:44 | 57.09 | 50.99 | 43 | 1.02 | 1.03 | 2.4 |
| 4/30/2015 | 21:43:52 | 57.41 | 51.31 | 46 | 1.14 | 0.96 | 2.5 |
| 4/30/2015 | 21:44:02 | 57.74 | 51.64 | 32 | 1.08 | 0.89 | 1.8 |
| 4/30/2015 | 21:44:14 | 58.07 | 51.97 | 32 | 1.21 | 1.02 | 1.7 |

## L85 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:39:57

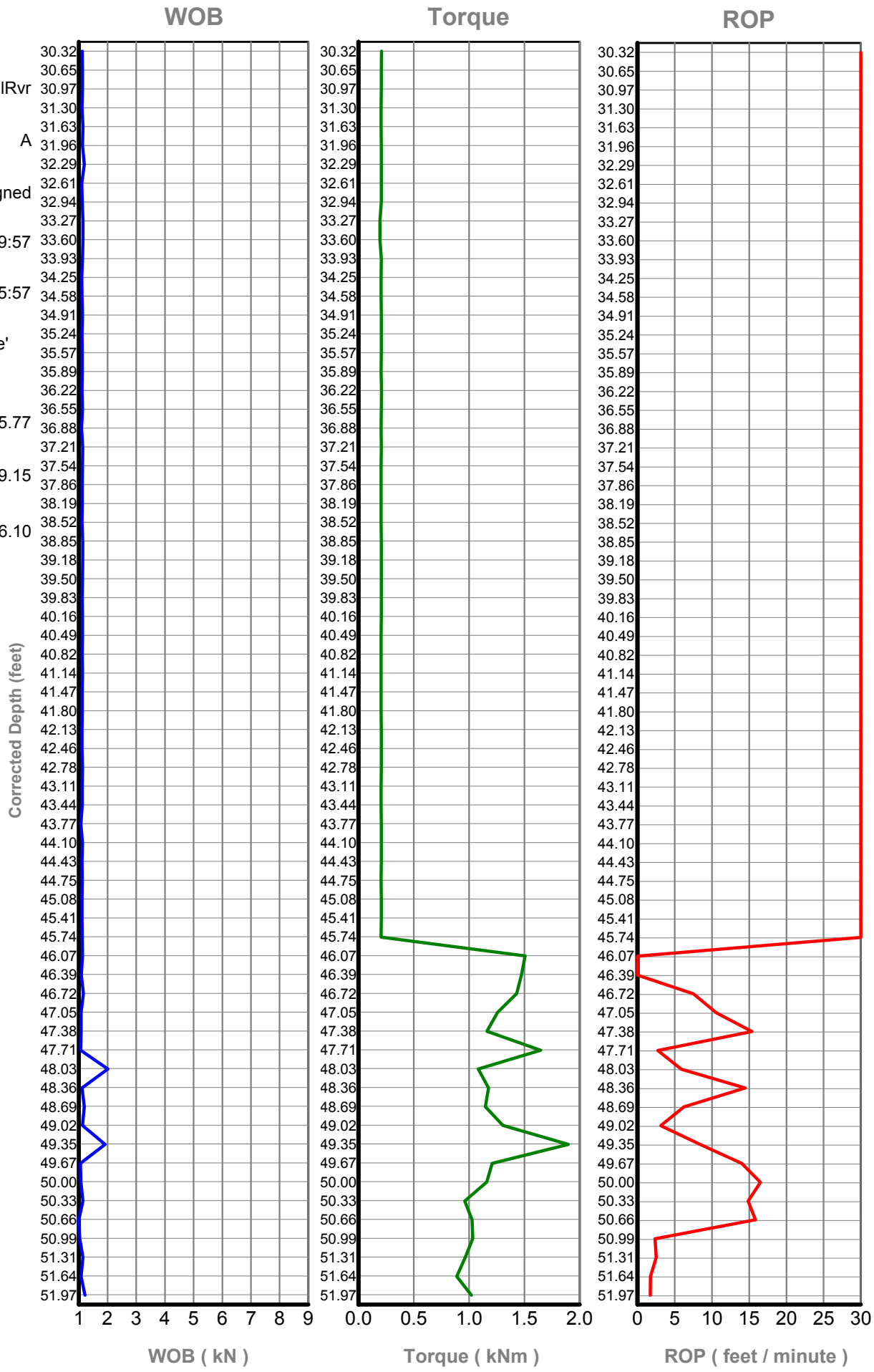
**End Date:**
4/30/2015 21:45:57

**Operator Note:**
'6.1 5.8 a Auto Complete'

**Northing:**
360,345.77

**Easting:**
242,979.15

**Tide (feet):**
6.10



## Hole: L86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:41:10 | 36.42 | 30.32 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:41:11 | 36.75 | 30.65 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/30/2015 21:41:11 | 37.07 | 30.97 | 1,116 | 0.32 | 0.38 | 61.0 |
| 4/30/2015 21:41:11 | 37.40 | 31.30 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:12 | 37.73 | 31.63 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:12 | 38.06 | 31.96 | 1,123 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 21:41:12 | 38.39 | 32.29 | 1,122 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 21:41:13 | 38.71 | 32.61 | 1,122 | 0.33 | 0.38 | 61.4 |
| 4/30/2015 21:41:13 | 39.04 | 32.94 | 1,119 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 21:41:13 | 39.37 | 33.27 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 21:41:14 | 39.70 | 33.60 | 1,112 | 0.33 | 0.38 | 60.8 |
| 4/30/2015 21:41:14 | 40.03 | 33.93 | 1,125 | 0.32 | 0.38 | 61.5 |
| 4/30/2015 21:41:14 | 40.35 | 34.25 | 1,125 | 0.32 | 0.38 | 61.5 |
| 4/30/2015 21:41:14 | 40.68 | 34.58 | 1,125 | 0.33 | 0.38 | 61.5 |
| 4/30/2015 21:41:15 | 41.01 | 34.91 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 21:41:15 | 41.34 | 35.24 | 1,118 | 0.33 | 0.38 | 61.1 |
| 4/30/2015 21:41:15 | 41.67 | 35.57 | 1,109 | 0.32 | 0.38 | 60.6 |
| 4/30/2015 21:41:16 | 41.99 | 35.89 | 1,109 | 0.32 | 0.38 | 60.6 |
| 4/30/2015 21:41:16 | 42.32 | 36.22 | 1,125 | 0.32 | 0.38 | 61.5 |
| 4/30/2015 21:41:16 | 42.65 | 36.55 | 1,116 | 0.32 | 0.37 | 61.0 |
| 4/30/2015 21:41:17 | 42.98 | 36.88 | 1,116 | 0.32 | 0.37 | 61.0 |
| 4/30/2015 21:41:17 | 43.31 | 37.21 | 1,120 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 21:41:18 | 43.64 | 37.54 | 1,120 | 0.32 | 0.38 | 61.2 |
| 4/30/2015 21:41:18 | 43.96 | 37.86 | 1,120 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:41:18 | 44.29 | 38.19 | 1,132 | 0.33 | 0.38 | 61.9 |
| 4/30/2015 21:41:19 | 44.62 | 38.52 | 1,132 | 0.33 | 0.38 | 61.9 |
| 4/30/2015 21:41:19 | 44.95 | 38.85 | 1,094 | 0.33 | 0.38 | 59.8 |
| 4/30/2015 21:41:19 | 45.28 | 39.18 | 1,094 | 0.32 | 0.38 | 59.8 |
| 4/30/2015 21:41:20 | 45.60 | 39.50 | 1,094 | 0.32 | 0.38 | 59.8 |
| 4/30/2015 21:41:20 | 45.93 | 39.83 | 1,111 | 0.32 | 0.38 | 60.8 |
| 4/30/2015 21:41:20 | 46.26 | 40.16 | 1,111 | 0.32 | 0.38 | 60.8 |
| 4/30/2015 21:41:20 | 46.59 | 40.49 | 1,107 | 0.32 | 0.38 | 60.6 |
| 4/30/2015 21:41:21 | 46.92 | 40.82 | 1,114 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:21 | 47.24 | 41.14 | 1,114 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:21 | 47.57 | 41.47 | 1,105 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 21:41:22 | 47.90 | 41.80 | 1,105 | 0.33 | 0.38 | 60.4 |
| 4/30/2015 21:41:22 | 48.23 | 42.13 | 1,126 | 0.31 | 0.38 | 61.6 |
| 4/30/2015 21:41:22 | 48.56 | 42.46 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 21:41:23 | 48.88 | 42.78 | 1,116 | 0.33 | 0.38 | 61.0 |
| 4/30/2015 21:41:23 | 49.21 | 43.11 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:23 | 49.54 | 43.44 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:24 | 49.87 | 43.77 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:24 | 50.20 | 44.10 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:24 | 50.53 | 44.43 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:24 | 50.85 | 44.75 | 1,119 | 0.33 | 0.38 | 61.2 |
| 4/30/2015 21:41:25 | 51.18 | 45.08 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:25 | 51.51 | 45.41 | 1,113 | 0.33 | 0.38 | 60.9 |
| 4/30/2015 21:41:25 | 51.84 | 45.74 | 1,110 | 0.32 | 0.38 | 60.7 |
| 4/30/2015 21:41:26 | 52.17 | 46.07 | 1,110 | 0.32 | 0.38 | 60.7 |
| 4/30/2015 21:41:26 | 52.49 | 46.39 | 1,104 | 0.32 | 0.38 | 60.3 |
| 4/30/2015 21:41:26 | 52.82 | 46.72 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:27 | 53.15 | 47.05 | 1,113 | 0.32 | 0.38 | 60.9 |
| 4/30/2015 21:41:27 | 53.48 | 47.38 | 1,107 | 0.32 | 0.38 | 60.5 |
| 4/30/2015 21:41:28 | 53.81 | 47.71 | 1,107 | 0.29 | 0.42 | 60.5 |
| 4/30/2015 21:41:28 | 54.13 | 48.03 | 1,107 | 0.29 | 0.42 | 60.5 |
| 4/30/2015 21:41:33 | 54.46 | 48.36 | 88 | 4.53 | 0.47 | 4.8 |
| 4/30/2015 21:41:37 | 54.79 | 48.69 | 87 | 4.45 | 0.46 | 4.7 |
| 4/30/2015 21:41:40 | 55.12 | 49.02 | 142 | 5.08 | 0.54 | 7.7 |
| 4/30/2015 21:42:12 | 55.45 | 49.35 | 99 | 3.59 | 0.45 | 5.4 |
| 4/30/2015 21:42:17 | 55.77 | 49.67 | 20 | 4.35 | 0.47 | 1.1 |
| 4/30/2015 21:42:19 | 56.10 | 50.00 | 188 | 4.74 | 0.45 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:42:21 | 56.43 | 50.33 | 187 | 3.77 | 0.44 | 10.2 |
| 4/30/2015 | 21:42:23 | 56.76 | 50.66 | 182 | 4.32 | 0.45 | 10.0 |
| 4/30/2015 | 21:42:24 | 57.09 | 50.99 | 228 | 4.99 | 0.44 | 12.5 |
| 4/30/2015 | 21:42:30 | 57.41 | 51.31 | 12 | 2.83 | 0.45 | 0.6 |
| 4/30/2015 | 21:42:34 | 57.74 | 51.64 | 95 | 4.71 | 0.47 | 5.2 |
| 4/30/2015 | 21:42:35 | 58.07 | 51.97 | 113 | 2.53 | 0.43 | 6.2 |
| 4/30/2015 | 21:42:37 | 58.40 | 52.30 | 272 | 1.98 | 0.40 | 14.9 |
| 4/30/2015 | 21:42:37 | 58.73 | 52.63 | 249 | 2.42 | 0.41 | 13.6 |
| 4/30/2015 | 21:42:38 | 59.06 | 52.96 | 306 | 2.66 | 0.41 | 16.7 |
| 4/30/2015 | 21:42:45 | 59.38 | 53.28 | 83 | 4.48 | 0.37 | 4.5 |
| 4/30/2015 | 21:42:48 | 59.71 | 53.61 | 126 | 4.40 | 0.45 | 6.9 |
| 4/30/2015 | 21:42:53 | 60.04 | 53.94 | 56 | 5.53 | 0.47 | 3.0 |
| 4/30/2015 | 21:43:06 | 60.37 | 54.27 | 75 | 8.04 | 0.45 | 4.1 |
| 4/30/2015 | 21:43:09 | 60.70 | 54.60 | 100 | 3.98 | 0.44 | 5.4 |
| 4/30/2015 | 21:43:09 | 60.79 | 54.69 | 100 | 3.98 | 0.44 | 5.4 |

## L86 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:39:36

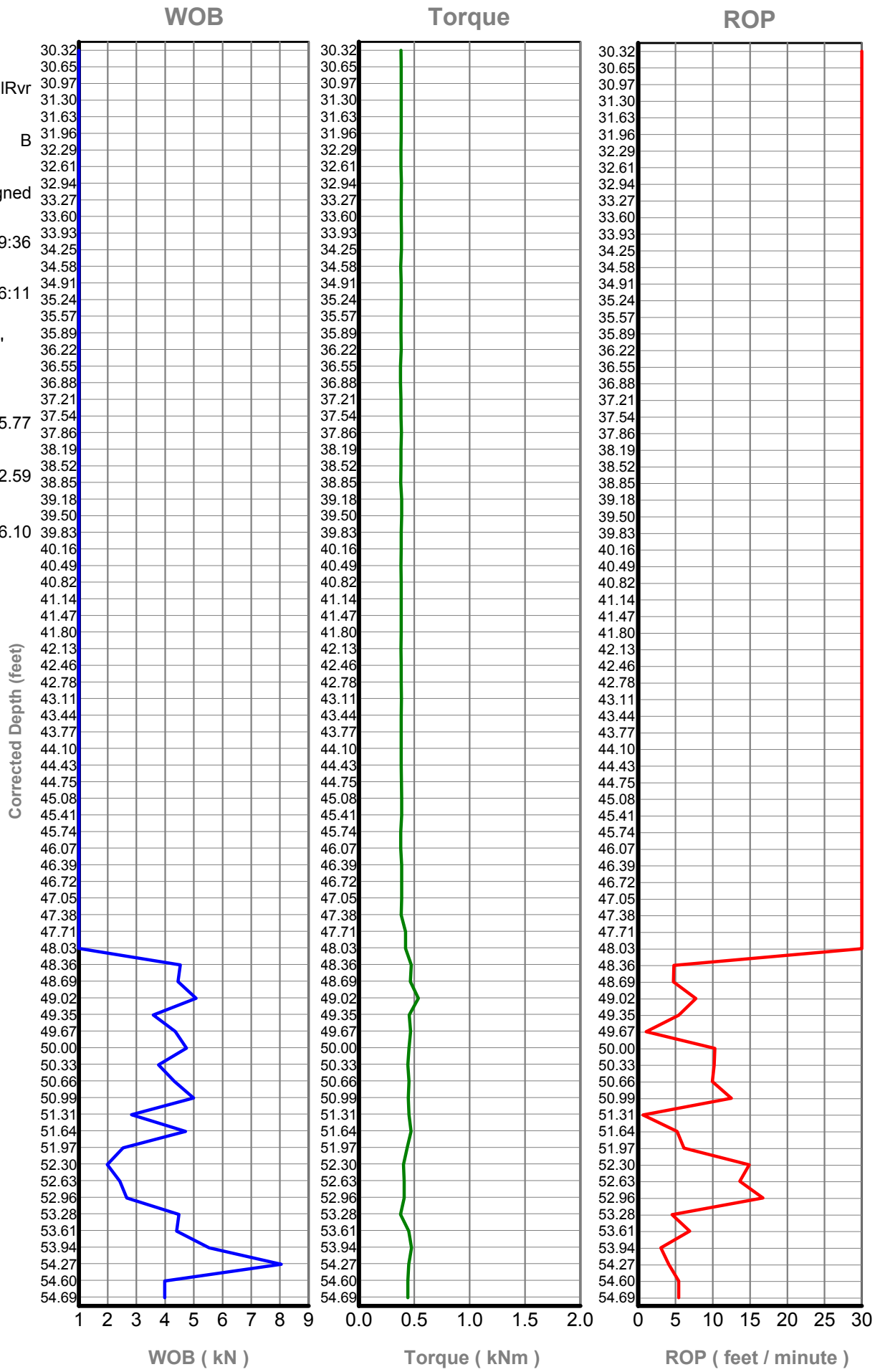
**End Date:**
4/30/2015 21:46:11

**Operator Note:**
'6.1 5.8b Auto Complete'

**Northing:**
360,385.77

**Easting:**
243,042.59

**Tide (feet):**
6.10



## Hole: L87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 21:38:48 | 36.42 | 30.32 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 21:38:49 | 36.75 | 30.65 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:49 | 37.07 | 30.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:49 | 37.40 | 31.30 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 21:38:50 | 37.73 | 31.63 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:50 | 38.06 | 31.96 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:50 | 38.39 | 32.29 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:51 | 38.71 | 32.61 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:38:52 | 39.04 | 32.94 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:38:52 | 39.37 | 33.27 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 21:38:52 | 39.70 | 33.60 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:53 | 40.03 | 33.93 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:53 | 40.35 | 34.25 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:53 | 40.68 | 34.58 | 1,003 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 21:38:54 | 41.01 | 34.91 | 1,003 | 1.14 | 0.29 | 54.9 |
| 4/30/2015 21:38:54 | 41.34 | 35.24 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:54 | 41.67 | 35.57 | 1,016 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:55 | 41.99 | 35.89 | 1,016 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:55 | 42.32 | 36.22 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:55 | 42.65 | 36.55 | 1,018 | 1.14 | 0.29 | 55.7 |
| 4/30/2015 21:38:56 | 42.98 | 36.88 | 1,027 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 21:38:56 | 43.31 | 37.21 | 1,027 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 21:38:56 | 43.64 | 37.54 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 21:38:57 | 43.96 | 37.86 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:38:57 | 44.29 | 38.19 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:38:57 | 44.62 | 38.52 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:58 | 44.95 | 38.85 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:38:58 | 45.28 | 39.18 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:38:58 | 45.60 | 39.50 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:38:59 | 45.93 | 39.83 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:59 | 46.26 | 40.16 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:38:59 | 46.59 | 40.49 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:00 | 46.92 | 40.82 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:00 | 47.24 | 41.14 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:00 | 47.57 | 41.47 | 994 | 1.14 | 0.29 | 54.4 |
| 4/30/2015 21:39:01 | 47.90 | 41.80 | 1,007 | 1.14 | 0.29 | 55.1 |
| 4/30/2015 21:39:01 | 48.23 | 42.13 | 1,007 | 1.14 | 0.29 | 55.1 |
| 4/30/2015 21:39:01 | 48.56 | 42.46 | 1,013 | 1.14 | 0.29 | 55.4 |
| 4/30/2015 21:39:02 | 48.88 | 42.78 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:02 | 49.21 | 43.11 | 1,010 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:02 | 49.54 | 43.44 | 1,016 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 21:39:03 | 49.87 | 43.77 | 1,028 | 1.14 | 0.29 | 56.2 |
| 4/30/2015 21:39:04 | 50.20 | 44.10 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:04 | 50.53 | 44.43 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:04 | 50.85 | 44.75 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:05 | 51.18 | 45.08 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:05 | 51.51 | 45.41 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:05 | 51.84 | 45.74 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:06 | 52.17 | 46.07 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:06 | 52.49 | 46.39 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:06 | 52.82 | 46.72 | 1,012 | 1.14 | 0.29 | 55.3 |
| 4/30/2015 21:39:07 | 53.15 | 47.05 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:07 | 53.48 | 47.38 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:07 | 53.81 | 47.71 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:08 | 54.13 | 48.03 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:08 | 54.46 | 48.36 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:08 | 54.79 | 48.69 | 1,000 | 1.14 | 0.29 | 54.7 |
| 4/30/2015 21:39:09 | 55.12 | 49.02 | 1,009 | 1.14 | 0.29 | 55.2 |
| 4/30/2015 21:39:20 | 55.45 | 49.35 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 21:39:21 | 55.77 | 49.67 | 28 | 1.14 | 0.29 | 1.5 |
| 4/30/2015 21:39:21 | 56.10 | 50.00 | 109 | 1.14 | 0.29 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 21:39:22 | 56.43 | 50.33 | 330 | 1.14 | 0.29 | 18.0 |
| 4/30/2015 | 21:39:29 | 56.76 | 50.66 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 | 21:39:29 | 57.09 | 50.99 | 26 | 1.14 | 0.29 | 1.4 |
| 4/30/2015 | 21:39:29 | 57.41 | 51.31 | 206 | 1.14 | 0.29 | 11.3 |
| 4/30/2015 | 21:39:30 | 57.74 | 51.64 | 391 | 1.14 | 0.29 | 21.4 |
| 4/30/2015 | 21:39:30 | 58.07 | 51.97 | 580 | 1.14 | 0.29 | 31.7 |
| 4/30/2015 | 21:39:31 | 58.40 | 52.30 | 580 | 1.14 | 0.29 | 31.7 |
| 4/30/2015 | 21:39:31 | 58.73 | 52.63 | 765 | 1.14 | 0.29 | 41.9 |
| 4/30/2015 | 21:39:34 | 59.06 | 52.96 | 3 | 1.14 | 0.29 | 0.2 |
| 4/30/2015 | 21:39:34 | 59.38 | 53.28 | 103 | 1.14 | 0.29 | 5.6 |
| 4/30/2015 | 21:39:36 | 59.71 | 53.61 | 268 | 1.14 | 0.29 | 14.7 |
| 4/30/2015 | 21:39:37 | 60.04 | 53.94 | 285 | 1.14 | 0.29 | 15.6 |
| 4/30/2015 | 21:39:39 | 60.37 | 54.27 | 247 | 1.14 | 0.29 | 13.5 |
| 4/30/2015 | 21:39:40 | 60.70 | 54.60 | 278 | 1.14 | 0.29 | 15.2 |
| 4/30/2015 | 21:39:41 | 61.02 | 54.92 | 304 | 1.14 | 0.29 | 16.6 |
| 4/30/2015 | 21:39:41 | 61.15 | 55.05 | 304 | 1.14 | 0.29 | 16.6 |

## L87 - Summary

**Pattern Number:**
AreaL_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 21:37:43

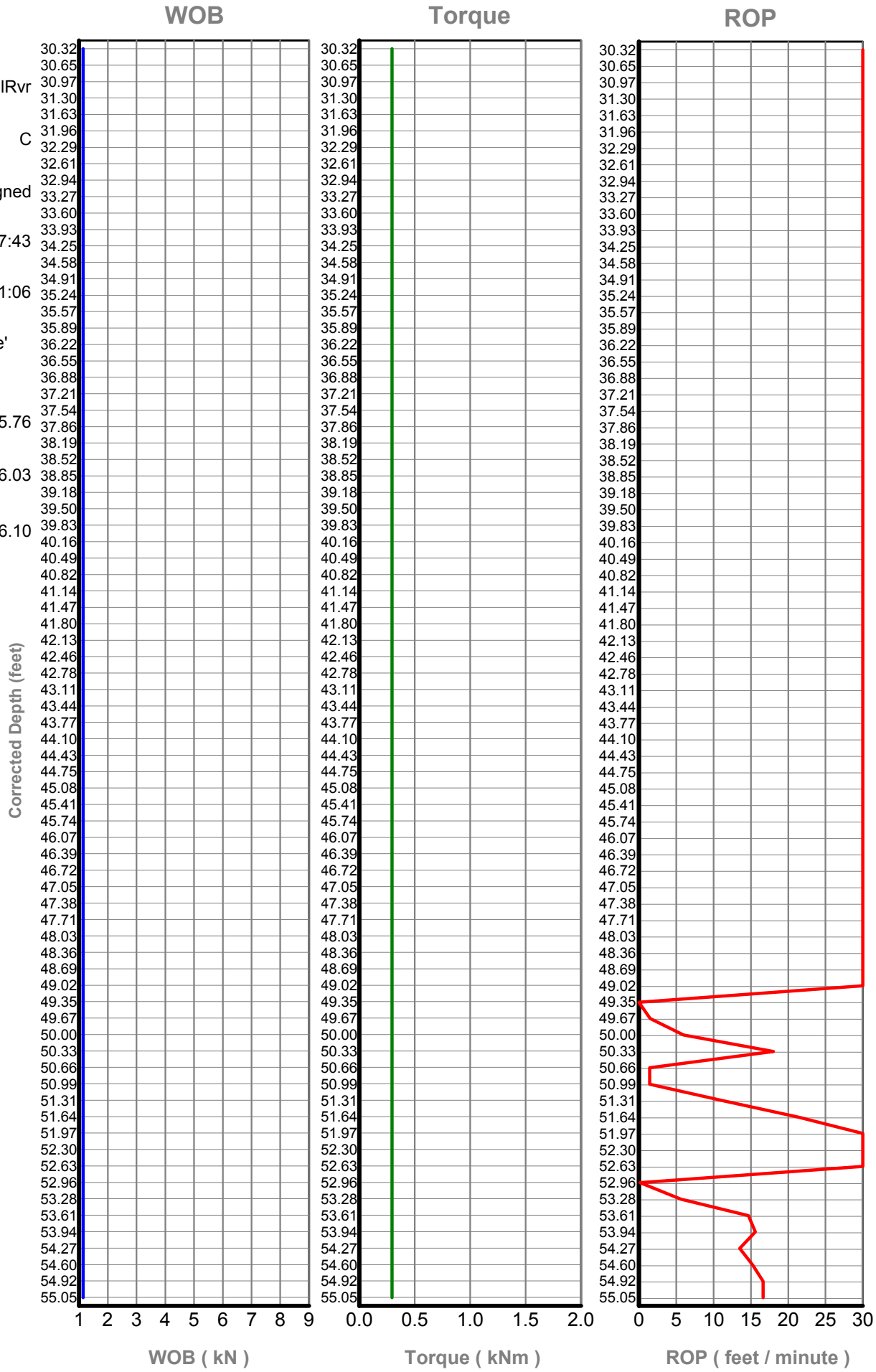
**End Date:**
4/30/2015 21:41:06

**Operator Note:**
'6.1 5.8 c Auto Complete'

**Northing:**
360,425.76

**Easting:**
243,106.03

**Tide (feet):**
6.10



## Hole: L88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:37:24 | 31.17 | 30.07 | 839 | 1.21 | 0.17 | 45.9 |
| 4/30/2015 17:37:24 | 31.50 | 30.40 | 833 | 1.22 | 0.17 | 45.6 |
| 4/30/2015 17:37:25 | 31.82 | 30.72 | 846 | 1.24 | 0.17 | 46.3 |
| 4/30/2015 17:37:25 | 32.15 | 31.05 | 846 | 1.24 | 0.17 | 46.3 |
| 4/30/2015 17:37:25 | 32.48 | 31.38 | 836 | 1.23 | 0.17 | 45.7 |
| 4/30/2015 17:37:26 | 32.81 | 31.71 | 838 | 1.23 | 0.17 | 45.8 |
| 4/30/2015 17:37:26 | 33.14 | 32.04 | 835 | 1.21 | 0.17 | 45.7 |
| 4/30/2015 17:37:27 | 33.46 | 32.36 | 838 | 1.23 | 0.17 | 45.8 |
| 4/30/2015 17:37:27 | 33.79 | 32.69 | 833 | 1.24 | 0.17 | 45.6 |
| 4/30/2015 17:37:28 | 34.12 | 33.02 | 833 | 1.24 | 0.17 | 45.6 |
| 4/30/2015 17:37:28 | 34.45 | 33.35 | 841 | 1.23 | 0.17 | 46.0 |
| 4/30/2015 17:37:28 | 34.78 | 33.68 | 841 | 1.22 | 0.17 | 46.0 |
| 4/30/2015 17:37:29 | 35.11 | 34.01 | 838 | 1.22 | 0.17 | 45.8 |
| 4/30/2015 17:37:29 | 35.43 | 34.33 | 838 | 1.22 | 0.17 | 45.8 |
| 4/30/2015 17:37:30 | 35.76 | 34.66 | 838 | 1.22 | 0.17 | 45.8 |
| 4/30/2015 17:37:30 | 36.09 | 34.99 | 846 | 1.21 | 0.17 | 46.3 |
| 4/30/2015 17:37:30 | 36.42 | 35.32 | 835 | 1.22 | 0.17 | 45.7 |
| 4/30/2015 17:37:31 | 36.75 | 35.65 | 835 | 1.22 | 0.17 | 45.7 |
| 4/30/2015 17:37:31 | 37.07 | 35.97 | 833 | 1.22 | 0.17 | 45.6 |
| 4/30/2015 17:37:32 | 37.40 | 36.30 | 841 | 1.21 | 0.17 | 46.0 |
| 4/30/2015 17:37:33 | 37.73 | 36.63 | 841 | 1.21 | 0.17 | 46.0 |
| 4/30/2015 17:37:33 | 38.06 | 36.96 | 838 | 1.23 | 0.17 | 45.8 |
| 4/30/2015 17:37:33 | 38.39 | 37.29 | 841 | 1.23 | 0.17 | 46.0 |
| 4/30/2015 17:37:34 | 38.71 | 37.61 | 841 | 1.21 | 0.17 | 46.0 |
| 4/30/2015 17:37:34 | 39.04 | 37.94 | 844 | 1.22 | 0.17 | 46.2 |
| 4/30/2015 17:37:35 | 39.37 | 38.27 | 844 | 1.22 | 0.17 | 46.2 |
| 4/30/2015 17:37:35 | 39.70 | 38.60 | 834 | 1.24 | 0.17 | 45.6 |
| 4/30/2015 17:37:35 | 40.03 | 38.93 | 834 | 1.23 | 0.17 | 45.6 |
| 4/30/2015 17:37:36 | 40.35 | 39.25 | 834 | 1.22 | 0.17 | 45.6 |
| 4/30/2015 17:37:36 | 40.68 | 39.58 | 839 | 1.21 | 0.17 | 45.9 |
| 4/30/2015 17:37:37 | 41.01 | 39.91 | 839 | 1.21 | 0.17 | 45.9 |
| 4/30/2015 17:37:37 | 41.34 | 40.24 | 839 | 1.22 | 0.17 | 45.9 |
| 4/30/2015 17:37:37 | 41.67 | 40.57 | 838 | 1.24 | 0.17 | 45.8 |
| 4/30/2015 17:37:38 | 41.99 | 40.89 | 840 | 1.21 | 0.17 | 46.0 |
| 4/30/2015 17:37:38 | 42.32 | 41.22 | 841 | 1.23 | 0.17 | 46.0 |
| 4/30/2015 17:37:39 | 42.65 | 41.55 | 835 | 1.23 | 0.17 | 45.7 |
| 4/30/2015 17:37:39 | 42.98 | 41.88 | 835 | 1.23 | 0.17 | 45.7 |
| 4/30/2015 17:37:39 | 43.31 | 42.21 | 841 | 1.22 | 0.17 | 46.0 |
| 4/30/2015 17:37:40 | 43.64 | 42.54 | 838 | 1.21 | 0.17 | 45.8 |
| 4/30/2015 17:37:40 | 43.96 | 42.86 | 834 | 1.21 | 0.17 | 45.6 |
| 4/30/2015 17:37:41 | 44.29 | 43.19 | 839 | 1.21 | 0.17 | 45.9 |
| 4/30/2015 17:37:41 | 44.62 | 43.52 | 839 | 1.24 | 0.17 | 45.9 |
| 4/30/2015 17:37:42 | 44.95 | 43.85 | 839 | 1.24 | 0.17 | 45.9 |
| 4/30/2015 17:37:42 | 45.28 | 44.18 | 831 | 1.22 | 0.17 | 45.4 |
| 4/30/2015 17:37:43 | 45.60 | 44.50 | 839 | 1.21 | 0.17 | 45.9 |
| 4/30/2015 17:37:43 | 45.93 | 44.83 | 841 | 1.23 | 0.17 | 46.0 |
| 4/30/2015 17:37:44 | 46.26 | 45.16 | 833 | 1.20 | 0.17 | 45.5 |
| 4/30/2015 17:37:44 | 46.59 | 45.49 | 833 | 1.20 | 0.17 | 45.5 |
| 4/30/2015 17:37:44 | 46.92 | 45.82 | 833 | 1.21 | 0.17 | 45.5 |
| 4/30/2015 17:37:45 | 47.24 | 46.14 | 835 | 1.22 | 0.16 | 45.7 |
| 4/30/2015 17:37:45 | 47.57 | 46.47 | 833 | 1.21 | 0.17 | 45.5 |
| 4/30/2015 17:37:46 | 47.90 | 46.80 | 833 | 1.23 | 0.17 | 45.5 |
| 4/30/2015 17:37:46 | 48.23 | 47.13 | 827 | 1.28 | 0.17 | 45.2 |
| 4/30/2015 17:37:58 | 48.56 | 47.46 | 0 | 1.15 | 0.90 | 0.0 |
| 4/30/2015 17:37:59 | 48.88 | 47.78 | 56 | 1.19 | 0.91 | 3.1 |
| 4/30/2015 17:38:00 | 49.21 | 48.11 | 244 | 1.22 | 1.20 | 13.3 |
| 4/30/2015 17:38:01 | 49.54 | 48.44 | 353 | 1.23 | 1.23 | 19.3 |
| 4/30/2015 17:38:02 | 49.87 | 48.77 | 296 | 1.23 | 1.02 | 16.2 |
| 4/30/2015 17:38:04 | 50.20 | 49.10 | 347 | 1.24 | 1.61 | 19.0 |
| 4/30/2015 17:38:06 | 50.53 | 49.43 | 199 | 1.19 | 1.07 | 10.9 |
| 4/30/2015 17:38:06 | 50.85 | 49.75 | 214 | 1.21 | 1.13 | 11.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:38:08 | 51.18 | 50.08 | 298 | 1.25 | 1.21 | 16.3 |
| 4/30/2015 | 17:38:09 | 51.51 | 50.41 | 243 | 1.21 | 1.13 | 13.3 |
| 4/30/2015 | 17:38:11 | 51.84 | 50.74 | 208 | 1.26 | 1.13 | 11.4 |
| 4/30/2015 | 17:38:15 | 52.17 | 51.07 | 116 | 1.15 | 1.21 | 6.3 |
| 4/30/2015 | 17:38:15 | 52.49 | 51.39 | 186 | 1.19 | 0.82 | 10.2 |
| 4/30/2015 | 17:38:16 | 52.82 | 51.72 | 286 | 1.19 | 0.82 | 15.6 |
| 4/30/2015 | 17:38:16 | 53.15 | 52.05 | 397 | 1.19 | 0.79 | 21.7 |
| 4/30/2015 | 17:38:17 | 53.48 | 52.38 | 501 | 1.19 | 0.82 | 27.4 |
| 4/30/2015 | 17:38:17 | 53.81 | 52.71 | 589 | 1.19 | 0.83 | 32.2 |
| 4/30/2015 | 17:38:18 | 54.13 | 53.03 | 616 | 1.19 | 0.87 | 33.7 |
| 4/30/2015 | 17:38:19 | 54.46 | 53.36 | 598 | 1.20 | 0.83 | 32.7 |
| 4/30/2015 | 17:38:19 | 54.79 | 53.69 | 581 | 1.19 | 0.94 | 31.8 |
| 4/30/2015 | 17:38:20 | 55.12 | 54.02 | 515 | 1.21 | 0.84 | 28.1 |
| 4/30/2015 | 17:38:21 | 55.45 | 54.35 | 505 | 1.24 | 0.87 | 27.6 |
| 4/30/2015 | 17:38:22 | 55.77 | 54.67 | 430 | 1.23 | 0.98 | 23.5 |
| 4/30/2015 | 17:38:24 | 56.10 | 55.00 | 236 | 0.57 | 0.90 | 12.9 |

## L88 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:35:10

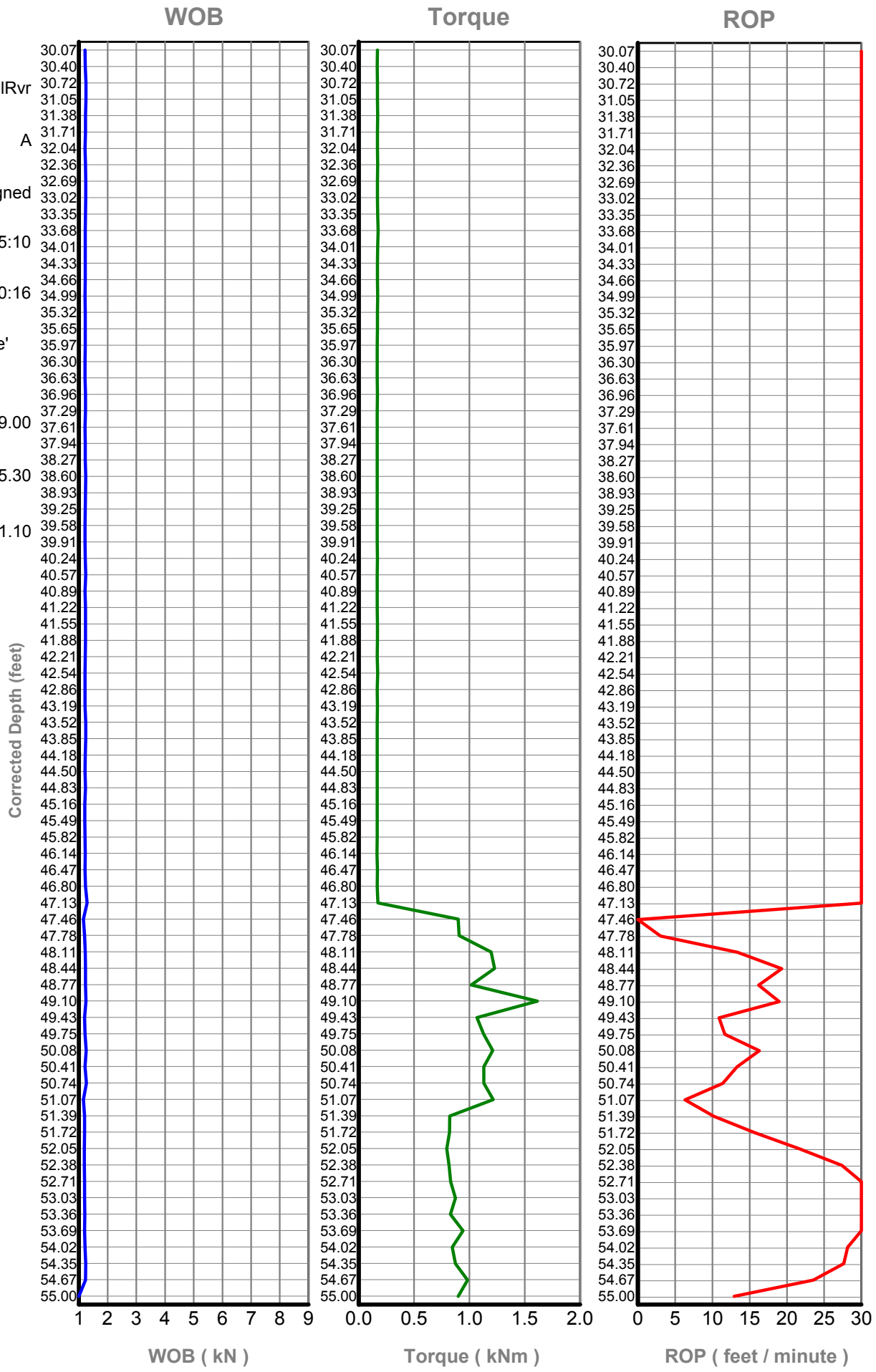
**End Date:**
4/30/2015 17:40:16

**Operator Note:**
'1.1 1.1 a Auto Complete'

**Northing:**
360,459.00

**Easting:**
243,175.30

**Tide (feet):**
1.10



## Hole: L89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:35:41 | 31.17 | 30.07 | 1,223 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 17:35:41 | 31.50 | 30.40 | 1,223 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 17:35:42 | 31.82 | 30.72 | 1,223 | 0.29 | 0.37 | 66.9 |
| 4/30/2015 17:35:42 | 32.15 | 31.05 | 1,210 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 17:35:42 | 32.48 | 31.38 | 1,210 | 0.28 | 0.36 | 66.1 |
| 4/30/2015 17:35:42 | 32.81 | 31.71 | 1,223 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 17:35:43 | 33.14 | 32.04 | 1,223 | 0.29 | 0.38 | 66.9 |
| 4/30/2015 17:35:43 | 33.46 | 32.36 | 1,223 | 0.29 | 0.38 | 66.9 |
| 4/30/2015 17:35:43 | 33.79 | 32.69 | 1,226 | 0.29 | 0.37 | 67.0 |
| 4/30/2015 17:35:44 | 34.12 | 33.02 | 1,226 | 0.29 | 0.37 | 67.0 |
| 4/30/2015 17:35:44 | 34.45 | 33.35 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 17:35:44 | 34.78 | 33.68 | 1,229 | 0.29 | 0.36 | 67.2 |
| 4/30/2015 17:35:44 | 35.11 | 34.01 | 1,240 | 0.30 | 0.37 | 67.8 |
| 4/30/2015 17:35:45 | 35.43 | 34.33 | 1,240 | 0.30 | 0.37 | 67.8 |
| 4/30/2015 17:35:45 | 35.76 | 34.66 | 1,217 | 0.29 | 0.37 | 66.6 |
| 4/30/2015 17:35:45 | 36.09 | 34.99 | 1,214 | 0.29 | 0.38 | 66.4 |
| 4/30/2015 17:35:46 | 36.42 | 35.32 | 1,214 | 0.29 | 0.38 | 66.4 |
| 4/30/2015 17:35:46 | 36.75 | 35.65 | 1,222 | 0.29 | 0.37 | 66.8 |
| 4/30/2015 17:35:46 | 37.07 | 35.97 | 1,222 | 0.29 | 0.37 | 66.8 |
| 4/30/2015 17:35:46 | 37.40 | 36.30 | 1,232 | 0.28 | 0.37 | 67.4 |
| 4/30/2015 17:35:47 | 37.73 | 36.63 | 1,232 | 0.28 | 0.37 | 67.4 |
| 4/30/2015 17:35:47 | 38.06 | 36.96 | 1,224 | 0.28 | 0.36 | 66.9 |
| 4/30/2015 17:35:47 | 38.39 | 37.29 | 1,238 | 0.45 | 0.37 | 67.7 |
| 4/30/2015 17:35:48 | 38.71 | 37.61 | 1,238 | 0.45 | 0.37 | 67.7 |
| 4/30/2015 17:35:48 | 39.04 | 37.94 | 1,244 | 0.26 | 0.37 | 68.0 |
| 4/30/2015 17:35:48 | 39.37 | 38.27 | 1,244 | 0.26 | 0.37 | 68.0 |
| 4/30/2015 17:35:48 | 39.70 | 38.60 | 1,239 | 0.28 | 0.38 | 67.8 |
| 4/30/2015 17:35:49 | 40.03 | 38.93 | 1,239 | 0.28 | 0.38 | 67.8 |
| 4/30/2015 17:35:49 | 40.35 | 39.25 | 1,231 | 0.28 | 0.37 | 67.3 |
| 4/30/2015 17:35:49 | 40.68 | 39.58 | 1,231 | 0.28 | 0.37 | 67.3 |
| 4/30/2015 17:35:49 | 41.01 | 39.91 | 1,234 | 0.29 | 0.37 | 67.5 |
| 4/30/2015 17:35:50 | 41.34 | 40.24 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 17:35:50 | 41.67 | 40.57 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 17:35:50 | 41.99 | 40.89 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/30/2015 17:35:51 | 42.32 | 41.22 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/30/2015 17:35:51 | 42.65 | 41.55 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/30/2015 17:35:51 | 42.98 | 41.88 | 1,237 | 0.29 | 0.37 | 67.7 |
| 4/30/2015 17:35:51 | 43.31 | 42.21 | 1,234 | 0.29 | 0.38 | 67.5 |
| 4/30/2015 17:35:52 | 43.64 | 42.54 | 1,234 | 0.29 | 0.38 | 67.5 |
| 4/30/2015 17:35:52 | 43.96 | 42.86 | 1,234 | 0.29 | 0.37 | 67.5 |
| 4/30/2015 17:35:53 | 44.29 | 43.19 | 1,234 | 0.29 | 0.37 | 67.5 |
| 4/30/2015 17:35:53 | 44.62 | 43.52 | 1,237 | 0.29 | 0.36 | 67.7 |
| 4/30/2015 17:35:53 | 44.95 | 43.85 | 1,237 | 0.28 | 0.38 | 67.7 |
| 4/30/2015 17:35:54 | 45.28 | 44.18 | 1,237 | 0.28 | 0.38 | 67.7 |
| 4/30/2015 17:35:54 | 45.60 | 44.50 | 1,231 | 0.28 | 0.36 | 67.3 |
| 4/30/2015 17:35:54 | 45.93 | 44.83 | 1,231 | 0.28 | 0.36 | 67.3 |
| 4/30/2015 17:35:54 | 46.26 | 45.16 | 1,229 | 0.28 | 0.37 | 67.2 |
| 4/30/2015 17:35:55 | 46.59 | 45.49 | 1,229 | 0.28 | 0.37 | 67.2 |
| 4/30/2015 17:35:55 | 46.92 | 45.82 | 1,234 | 0.29 | 0.37 | 67.5 |
| 4/30/2015 17:35:55 | 47.24 | 46.14 | 1,224 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 17:35:56 | 47.57 | 46.47 | 1,224 | 0.29 | 0.36 | 66.9 |
| 4/30/2015 17:35:56 | 47.90 | 46.80 | 1,228 | 0.29 | 0.38 | 67.2 |
| 4/30/2015 17:35:56 | 48.23 | 47.13 | 1,228 | 0.29 | 0.38 | 67.2 |
| 4/30/2015 17:35:56 | 48.56 | 47.46 | 1,221 | 0.26 | 0.41 | 66.8 |
| 4/30/2015 17:36:03 | 48.88 | 47.78 | 0 | 2.42 | 0.40 | 0.0 |
| 4/30/2015 17:36:05 | 49.21 | 48.11 | 77 | 4.00 | 0.48 | 4.2 |
| 4/30/2015 17:36:08 | 49.54 | 48.44 | 57 | 3.28 | 0.39 | 3.1 |
| 4/30/2015 17:36:09 | 49.87 | 48.77 | 203 | 2.64 | 0.40 | 11.1 |
| 4/30/2015 17:36:16 | 50.20 | 49.10 | 0 | 4.12 | 0.44 | 0.0 |
| 4/30/2015 17:36:17 | 50.53 | 49.43 | 157 | 3.96 | 0.43 | 8.6 |
| 4/30/2015 17:36:22 | 50.85 | 49.75 | 3 | 4.02 | 0.42 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:36:26 | 51.18 | 50.08 | 69 | 4.21 | 0.44 | 3.8 |
| 4/30/2015 | 17:36:27 | 51.51 | 50.41 | 199 | 3.78 | 0.44 | 10.9 |
| 4/30/2015 | 17:36:28 | 51.84 | 50.74 | 276 | 3.24 | 0.43 | 15.1 |
| 4/30/2015 | 17:36:29 | 52.17 | 51.07 | 359 | 3.42 | 0.42 | 19.6 |
| 4/30/2015 | 17:36:29 | 52.49 | 51.39 | 415 | 2.10 | 0.39 | 22.7 |
| 4/30/2015 | 17:36:30 | 52.82 | 51.72 | 546 | 2.12 | 0.38 | 29.9 |
| 4/30/2015 | 17:36:30 | 53.15 | 52.05 | 546 | 2.12 | 0.38 | 29.9 |
| 4/30/2015 | 17:36:38 | 53.48 | 52.38 | 0 | 1.84 | 0.38 | 0.0 |
| 4/30/2015 | 17:36:39 | 53.81 | 52.71 | 206 | 1.89 | 0.39 | 11.3 |
| 4/30/2015 | 17:36:39 | 54.13 | 53.03 | 206 | 1.89 | 0.39 | 11.3 |
| 4/30/2015 | 17:36:39 | 54.46 | 53.36 | 397 | 2.17 | 0.40 | 21.7 |
| 4/30/2015 | 17:36:40 | 54.79 | 53.69 | 560 | 2.73 | 0.42 | 30.6 |
| 4/30/2015 | 17:36:51 | 55.12 | 54.02 | 0 | 4.51 | 0.49 | 0.0 |
| 4/30/2015 | 17:36:51 | 55.45 | 54.35 | 32 | 2.17 | 0.41 | 1.8 |
| 4/30/2015 | 17:36:52 | 55.77 | 54.67 | 161 | 2.06 | 0.41 | 8.8 |
| 4/30/2015 | 17:36:53 | 56.10 | 55.00 | 428 | 2.00 | 0.41 | 23.4 |
| 4/30/2015 | 17:36:53 | 56.31 | 55.21 | 428 | 2.00 | 0.41 | 23.4 |

## L89 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:33:14

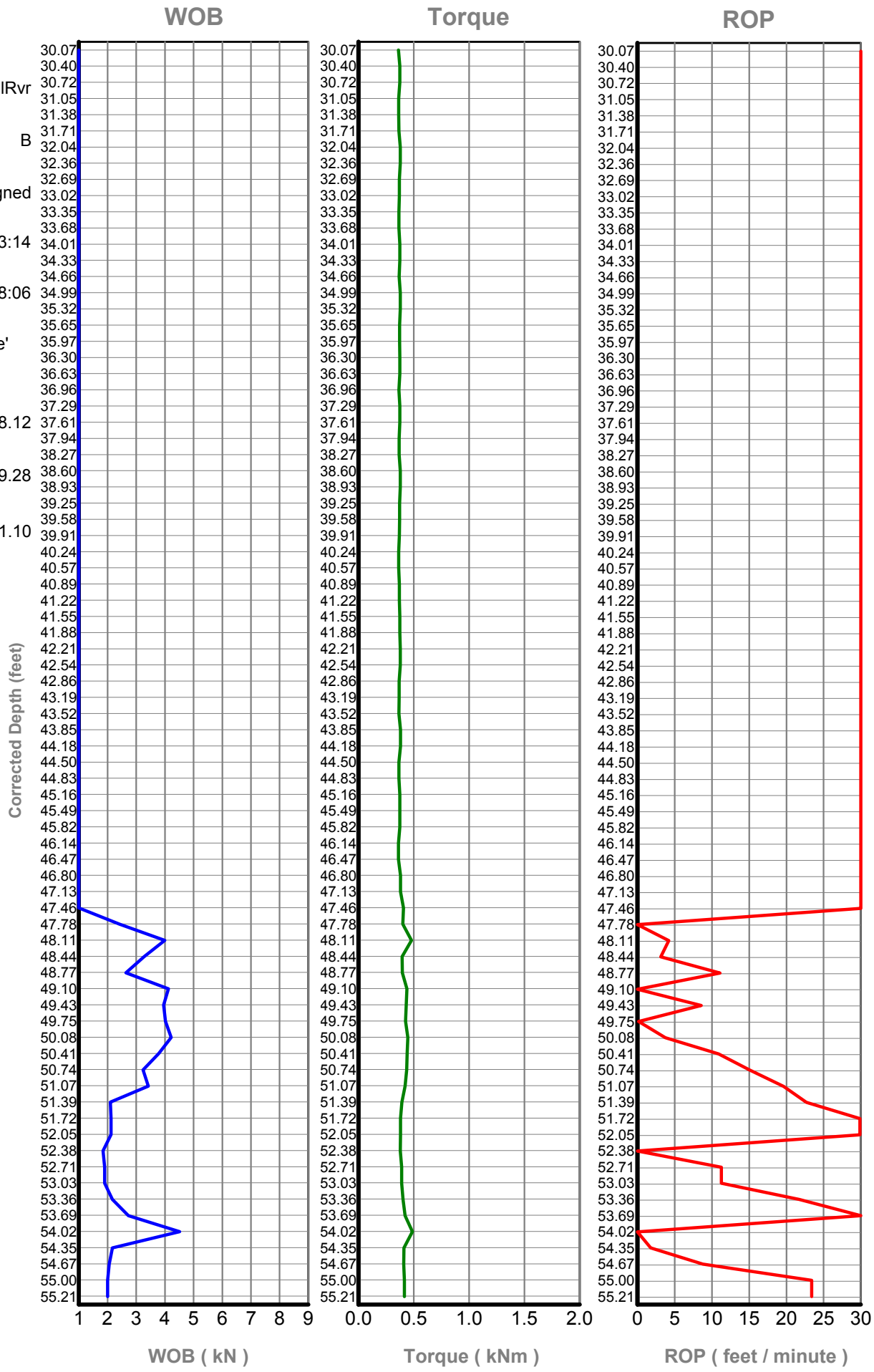
**End Date:**
4/30/2015 17:38:06

**Operator Note:**
'1.1 1.1 b Auto Complete'

**Northing:**
360,498.12

**Easting:**
243,239.28

**Tide (feet):**
1.10



## Hole: L9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 2:32:05 | 34.12 | 30.22 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:32:05 | 34.45 | 30.55 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:32:06 | 34.78 | 30.88 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:32:06 | 35.11 | 31.21 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:32:06 | 35.43 | 31.53 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:32:07 | 35.76 | 31.86 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:32:07 | 36.09 | 32.19 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 2:32:07 | 36.42 | 32.52 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:08 | 36.75 | 32.85 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:08 | 37.07 | 33.17 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:08 | 37.40 | 33.50 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:09 | 37.73 | 33.83 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:10 | 38.06 | 34.16 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:10 | 38.39 | 34.49 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:10 | 38.71 | 34.81 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:32:11 | 39.04 | 35.14 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:11 | 39.37 | 35.47 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:11 | 39.70 | 35.80 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:32:12 | 40.03 | 36.13 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:12 | 40.35 | 36.45 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:12 | 40.68 | 36.78 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 2:32:13 | 41.01 | 37.11 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:13 | 41.34 | 37.44 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:13 | 41.67 | 37.77 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 2:32:14 | 41.99 | 38.09 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:14 | 42.32 | 38.42 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:14 | 42.65 | 38.75 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 2:32:15 | 42.98 | 39.08 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:15 | 43.31 | 39.41 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 2:32:15 | 43.64 | 39.74 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:16 | 43.96 | 40.06 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:16 | 44.29 | 40.39 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:16 | 44.62 | 40.72 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:17 | 44.95 | 41.05 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:17 | 45.28 | 41.38 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 2:32:18 | 45.60 | 41.70 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 2:32:18 | 45.93 | 42.03 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:18 | 46.26 | 42.36 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:19 | 46.59 | 42.69 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:19 | 46.92 | 43.02 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:19 | 47.24 | 43.34 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:20 | 47.57 | 43.67 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:20 | 47.90 | 44.00 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:20 | 48.23 | 44.33 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 2:32:21 | 48.56 | 44.66 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 2:32:21 | 48.88 | 44.98 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 2:32:22 | 49.21 | 45.31 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:22 | 49.54 | 45.64 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:22 | 49.87 | 45.97 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 2:32:23 | 50.20 | 46.30 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 2:32:23 | 50.53 | 46.63 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:24 | 50.85 | 46.95 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:24 | 51.18 | 47.28 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 2:32:24 | 51.51 | 47.61 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:25 | 51.84 | 47.94 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 2:32:25 | 52.17 | 48.27 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 2:32:25 | 52.49 | 48.59 | 998 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 2:32:26 | 52.82 | 48.92 | 998 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 2:32:26 | 53.15 | 49.25 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 2:32:26 | 53.48 | 49.58 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 2:32:35 | 53.81 | 49.91 | 77 | 1.14 | 0.29 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 2:32:36 | 54.13 | 50.23 | 192 | 1.14 | 0.29 | 10.5 |
| 5/1/2015 | 2:32:45 | 54.46 | 50.56 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 2:32:54 | 54.79 | 50.89 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 2:32:58 | 55.12 | 51.22 | 114 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 2:33:09 | 55.45 | 51.55 | 30 | 1.14 | 0.29 | 1.7 |
| 5/1/2015 | 2:33:38 | 55.77 | 51.87 | 27 | 1.14 | 0.29 | 1.5 |
| 5/1/2015 | 2:34:06 | 56.10 | 52.20 | 81 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 2:34:09 | 56.43 | 52.53 | 143 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 | 2:34:11 | 56.76 | 52.86 | 163 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 | 2:34:13 | 57.09 | 53.19 | 186 | 1.14 | 0.29 | 10.2 |
| 5/1/2015 | 2:34:15 | 57.41 | 53.51 | 166 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 | 2:34:17 | 57.74 | 53.84 | 163 | 1.14 | 0.29 | 8.9 |
| 5/1/2015 | 2:35:05 | 58.07 | 54.17 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 2:35:07 | 58.40 | 54.50 | 120 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 2:35:10 | 58.73 | 54.83 | 140 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 | 2:35:18 | 59.06 | 55.16 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 2:35:23 | 59.18 | 55.28 | 23 | 1.14 | 0.29 | 1.3 |

## L9 - Summary

**Pattern Number:**
AreaL_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 2:30:48

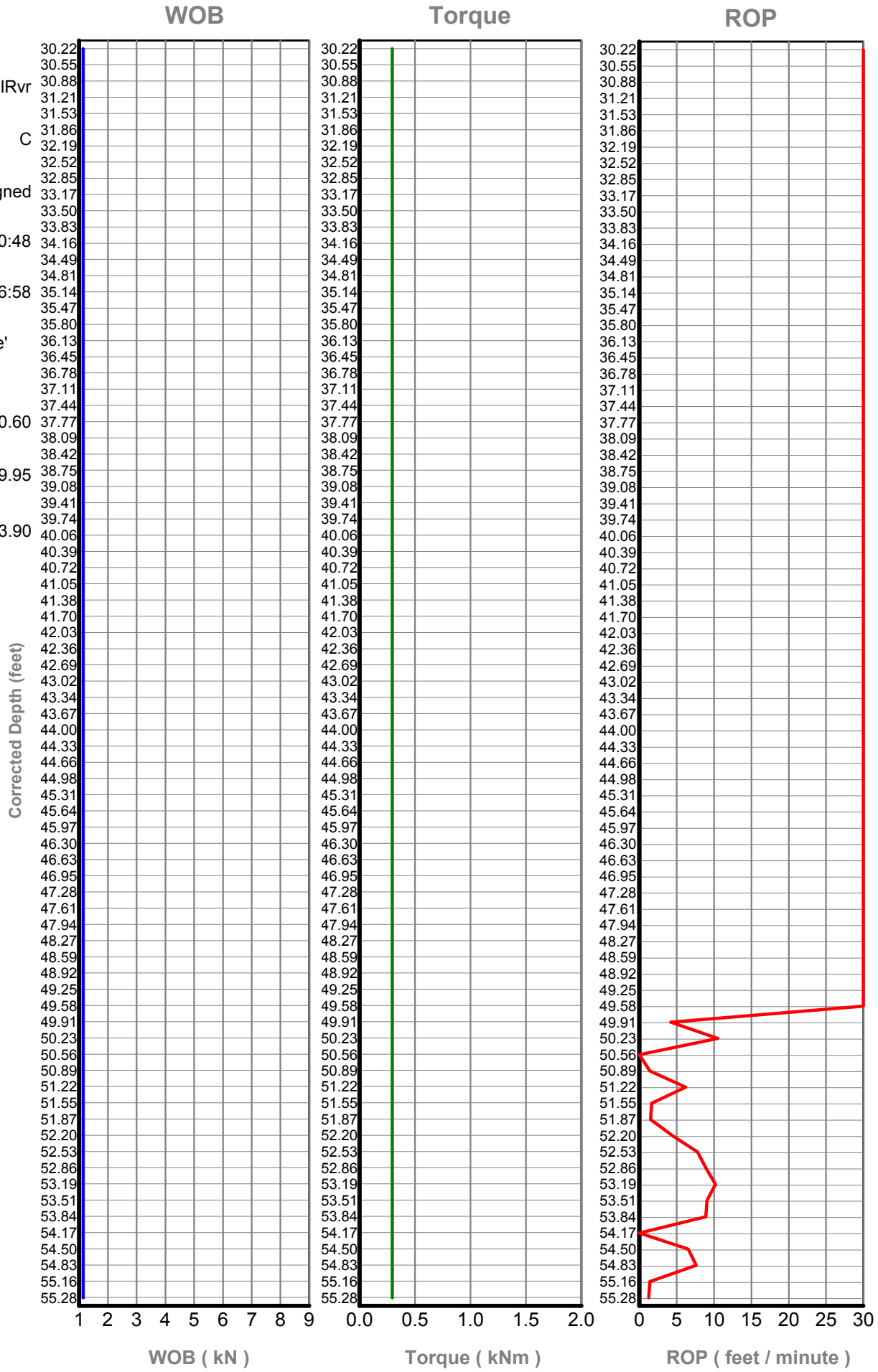
**End Date:**
5/1/2015 2:36:58

**Operator Note:**
'3.9 4.2 c Auto Complete'

**Northing:**
360,310.60

**Easting:**
242,369.95

**Tide (feet):**
3.90



## Hole: L90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 4/30/2015 17:36:05 | 31.17 | 30.07 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:05 | 31.50 | 30.40 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 17:36:05 | 31.82 | 30.72 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:06 | 32.15 | 31.05 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:06 | 32.48 | 31.38 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:06 | 32.81 | 31.71 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:07 | 33.14 | 32.04 | 1,024 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:07 | 33.46 | 32.36 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:07 | 33.79 | 32.69 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 17:36:08 | 34.12 | 33.02 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 17:36:08 | 34.45 | 33.35 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:09 | 34.78 | 33.68 | 1,025 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:09 | 35.11 | 34.01 | 1,025 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:09 | 35.43 | 34.33 | 1,034 | 1.14 | 0.29 | 56.6 |
| 4/30/2015 17:36:10 | 35.76 | 34.66 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 17:36:10 | 36.09 | 34.99 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 17:36:10 | 36.42 | 35.32 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:11 | 36.75 | 35.65 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:11 | 37.07 | 35.97 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:11 | 37.40 | 36.30 | 1,032 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 17:36:12 | 37.73 | 36.63 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 17:36:12 | 38.06 | 36.96 | 1,032 | 1.14 | 0.29 | 56.4 |
| 4/30/2015 17:36:12 | 38.39 | 37.29 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:13 | 38.71 | 37.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:13 | 39.04 | 37.94 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:13 | 39.37 | 38.27 | 1,033 | 1.14 | 0.29 | 56.5 |
| 4/30/2015 17:36:14 | 39.70 | 38.60 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:14 | 40.03 | 38.93 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:14 | 40.35 | 39.25 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:15 | 40.68 | 39.58 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:15 | 41.01 | 39.91 | 1,023 | 1.14 | 0.29 | 56.0 |
| 4/30/2015 17:36:15 | 41.34 | 40.24 | 1,029 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:16 | 41.67 | 40.57 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:16 | 41.99 | 40.89 | 1,030 | 1.14 | 0.29 | 56.3 |
| 4/30/2015 17:36:16 | 42.32 | 41.22 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:17 | 42.65 | 41.55 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:17 | 42.98 | 41.88 | 1,027 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:17 | 43.31 | 42.21 | 1,026 | 1.14 | 0.29 | 56.1 |
| 4/30/2015 17:36:18 | 43.64 | 42.54 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 17:36:18 | 43.96 | 42.86 | 1,018 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 17:36:18 | 44.29 | 43.19 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 17:36:19 | 44.62 | 43.52 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 17:36:19 | 44.95 | 43.85 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 17:36:19 | 45.28 | 44.18 | 1,017 | 1.14 | 0.29 | 55.6 |
| 4/30/2015 17:36:20 | 45.60 | 44.50 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 17:36:21 | 45.93 | 44.83 | 1,015 | 1.14 | 0.29 | 55.5 |
| 4/30/2015 17:36:21 | 46.26 | 45.16 | 1,021 | 1.14 | 0.29 | 55.8 |
| 4/30/2015 17:36:40 | 46.59 | 45.49 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 17:36:42 | 46.92 | 45.82 | 137 | 1.14 | 0.29 | 7.5 |
| 4/30/2015 17:36:43 | 47.24 | 46.14 | 288 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 17:36:43 | 47.57 | 46.47 | 333 | 1.14 | 0.29 | 18.2 |
| 4/30/2015 17:36:45 | 47.90 | 46.80 | 399 | 1.14 | 0.29 | 21.8 |
| 4/30/2015 17:36:45 | 48.23 | 47.13 | 419 | 1.14 | 0.29 | 22.9 |
| 4/30/2015 17:36:46 | 48.56 | 47.46 | 442 | 1.14 | 0.29 | 24.2 |
| 4/30/2015 17:37:23 | 48.88 | 47.78 | 35 | 1.14 | 0.29 | 1.9 |
| 4/30/2015 17:37:47 | 49.21 | 48.11 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 17:38:14 | 49.54 | 48.44 | 86 | 1.14 | 0.29 | 4.7 |
| 4/30/2015 17:38:15 | 49.87 | 48.77 | 180 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 17:38:15 | 50.20 | 49.10 | 180 | 1.14 | 0.29 | 9.9 |
| 4/30/2015 17:38:16 | 50.53 | 49.43 | 286 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 17:38:17 | 50.85 | 49.75 | 421 | 1.14 | 0.29 | 23.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4/30/2015 | 17:38:17 | 51.18 | 50.08 | 513 | 1.14 | 0.29 | 28.1 |
| 4/30/2015 | 17:38:18 | 51.51 | 50.41 | 513 | 1.14 | 0.29 | 28.1 |
| 4/30/2015 | 17:38:44 | 51.84 | 50.74 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 17:39:10 | 52.17 | 51.07 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 17:38:45 | 52.49 | 51.39 | 188 | 1.14 | 0.29 | 10.3 |
| 4/30/2015 | 17:38:45 | 52.82 | 51.72 | 353 | 1.14 | 0.29 | 19.3 |
| 4/30/2015 | 17:38:46 | 53.15 | 52.05 | 507 | 1.14 | 0.29 | 27.7 |
| 4/30/2015 | 17:38:46 | 53.48 | 52.38 | 660 | 1.14 | 0.29 | 36.1 |
| 4/30/2015 | 17:38:47 | 53.81 | 52.71 | 803 | 1.14 | 0.29 | 43.9 |
| 4/30/2015 | 17:38:50 | 54.13 | 53.03 | 0 | 1.14 | 0.29 | 0.0 |
| 4/30/2015 | 17:38:51 | 54.46 | 53.36 | 138 | 1.14 | 0.29 | 7.6 |
| 4/30/2015 | 17:38:52 | 54.79 | 53.69 | 287 | 1.14 | 0.29 | 15.7 |
| 4/30/2015 | 17:38:53 | 55.12 | 54.02 | 438 | 1.14 | 0.29 | 23.9 |
| 4/30/2015 | 17:38:55 | 55.45 | 54.35 | 302 | 1.14 | 0.29 | 16.5 |
| 4/30/2015 | 17:38:56 | 55.77 | 54.67 | 258 | 1.14 | 0.29 | 14.1 |
| 4/30/2015 | 17:38:58 | 56.10 | 55.00 | 223 | 1.14 | 0.29 | 12.2 |
| 4/30/2015 | 17:38:59 | 56.20 | 55.10 | 200 | 1.14 | 0.29 | 10.9 |

## L90 - Summary

**Pattern Number:**
AreaL_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
4/30/2015 17:34:48

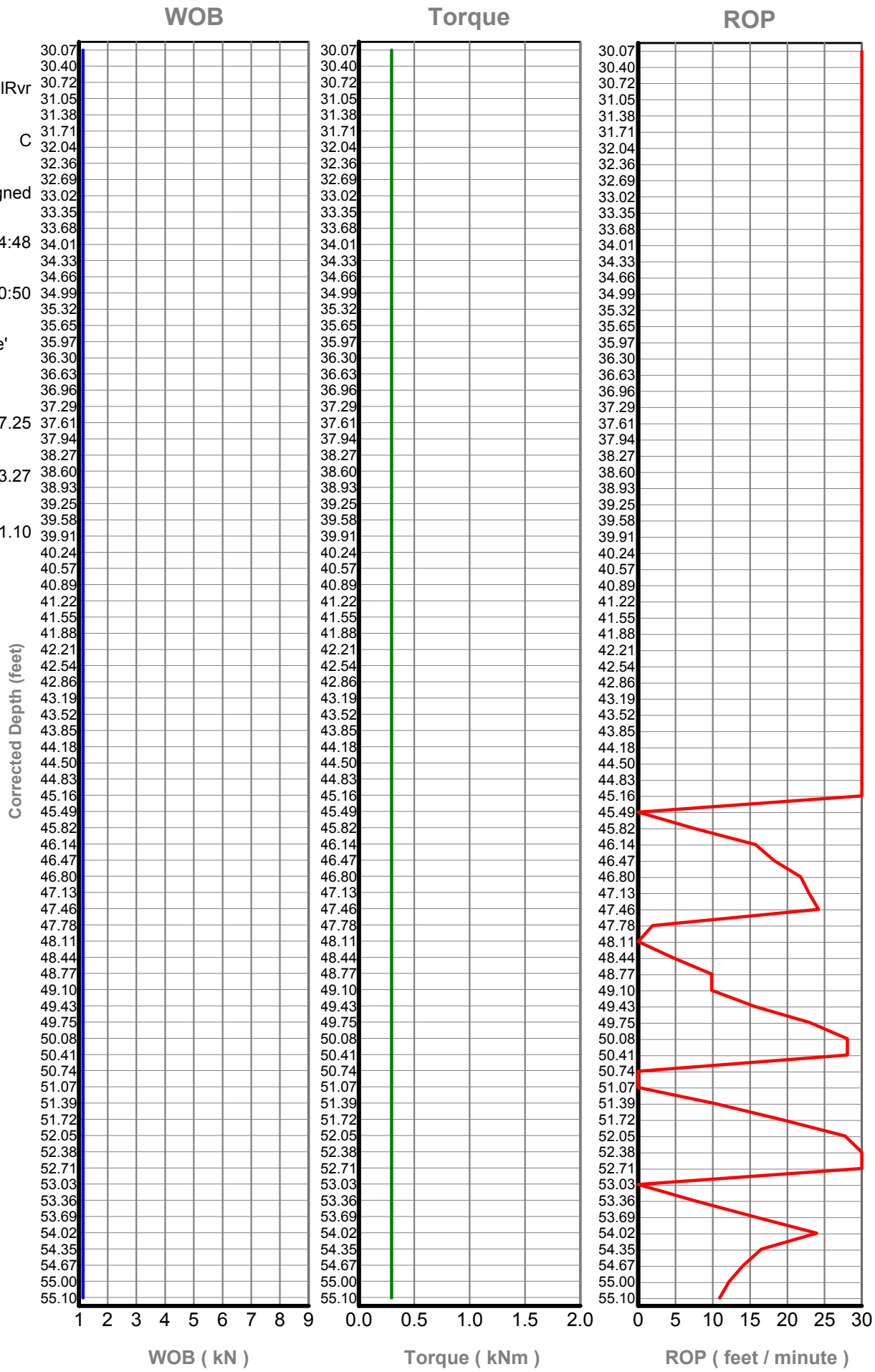
**End Date:**
4/30/2015 17:40:50

**Operator Note:**
'1.1 1.1 c Auto Complete'

**Northing:**
360,537.25

**Easting:**
243,303.27

**Tide (feet):**
1.10



## Hole: L91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:05:57 | 35.11 | 30.21 | 264 | 1.15 | 0.21 | 14.5 |
| 5/1/2015 21:05:58 | 35.43 | 30.53 | 410 | 1.13 | 0.21 | 22.4 |
| 5/1/2015 21:05:58 | 35.76 | 30.86 | 559 | 1.13 | 0.21 | 30.6 |
| 5/1/2015 21:05:59 | 36.09 | 31.19 | 709 | 1.13 | 0.21 | 38.8 |
| 5/1/2015 21:06:00 | 36.42 | 31.52 | 752 | 1.12 | 0.21 | 41.1 |
| 5/1/2015 21:06:00 | 36.75 | 31.85 | 752 | 1.12 | 0.21 | 41.1 |
| 5/1/2015 21:06:00 | 37.07 | 32.17 | 746 | 1.11 | 0.21 | 40.8 |
| 5/1/2015 21:06:01 | 37.40 | 32.50 | 749 | 1.13 | 0.21 | 40.9 |
| 5/1/2015 21:06:01 | 37.73 | 32.83 | 749 | 1.12 | 0.21 | 40.9 |
| 5/1/2015 21:06:02 | 38.06 | 33.16 | 751 | 1.13 | 0.21 | 41.1 |
| 5/1/2015 21:06:02 | 38.39 | 33.49 | 749 | 1.17 | 0.23 | 40.9 |
| 5/1/2015 21:06:03 | 38.71 | 33.81 | 746 | 1.13 | 0.21 | 40.8 |
| 5/1/2015 21:06:03 | 39.04 | 34.14 | 746 | 1.17 | 0.22 | 40.8 |
| 5/1/2015 21:06:04 | 39.37 | 34.47 | 746 | 1.15 | 0.21 | 40.8 |
| 5/1/2015 21:06:04 | 39.70 | 34.80 | 740 | 1.16 | 0.22 | 40.5 |
| 5/1/2015 21:06:05 | 40.03 | 35.13 | 734 | 1.13 | 0.21 | 40.1 |
| 5/1/2015 21:06:05 | 40.35 | 35.45 | 733 | 1.12 | 0.21 | 40.1 |
| 5/1/2015 21:06:06 | 40.68 | 35.78 | 737 | 1.14 | 0.21 | 40.3 |
| 5/1/2015 21:06:06 | 41.01 | 36.11 | 731 | 1.13 | 0.21 | 40.0 |
| 5/1/2015 21:06:07 | 41.34 | 36.44 | 731 | 1.13 | 0.21 | 40.0 |
| 5/1/2015 21:06:07 | 41.67 | 36.77 | 734 | 1.13 | 0.21 | 40.2 |
| 5/1/2015 21:06:07 | 41.99 | 37.09 | 723 | 1.13 | 0.20 | 39.5 |
| 5/1/2015 21:06:08 | 42.32 | 37.42 | 723 | 1.13 | 0.20 | 39.5 |
| 5/1/2015 21:06:08 | 42.65 | 37.75 | 732 | 1.13 | 0.20 | 40.0 |
| 5/1/2015 21:06:09 | 42.98 | 38.08 | 725 | 1.39 | 0.21 | 39.6 |
| 5/1/2015 21:06:09 | 43.31 | 38.41 | 724 | 1.15 | 0.20 | 39.6 |
| 5/1/2015 21:06:10 | 43.64 | 38.74 | 728 | 1.14 | 0.20 | 39.8 |
| 5/1/2015 21:06:11 | 43.96 | 39.06 | 742 | 1.14 | 0.20 | 40.6 |
| 5/1/2015 21:06:11 | 44.29 | 39.39 | 737 | 1.17 | 0.21 | 40.3 |
| 5/1/2015 21:06:12 | 44.62 | 39.72 | 737 | 1.13 | 0.21 | 40.3 |
| 5/1/2015 21:06:12 | 44.95 | 40.05 | 740 | 1.13 | 0.21 | 40.5 |
| 5/1/2015 21:06:13 | 45.28 | 40.38 | 737 | 1.13 | 0.21 | 40.3 |
| 5/1/2015 21:06:13 | 45.60 | 40.70 | 737 | 1.13 | 0.21 | 40.3 |
| 5/1/2015 21:06:14 | 45.93 | 41.03 | 730 | 1.12 | 0.22 | 39.9 |
| 5/1/2015 21:06:14 | 46.26 | 41.36 | 730 | 1.12 | 0.22 | 39.9 |
| 5/1/2015 21:06:14 | 46.59 | 41.69 | 718 | 1.13 | 0.21 | 39.3 |
| 5/1/2015 21:06:15 | 46.92 | 42.02 | 718 | 1.13 | 0.21 | 39.3 |
| 5/1/2015 21:06:15 | 47.24 | 42.34 | 730 | 1.13 | 0.20 | 39.9 |
| 5/1/2015 21:06:16 | 47.57 | 42.67 | 722 | 1.12 | 0.20 | 39.5 |
| 5/1/2015 21:06:16 | 47.90 | 43.00 | 727 | 1.13 | 0.20 | 39.7 |
| 5/1/2015 21:06:17 | 48.23 | 43.33 | 727 | 1.13 | 0.20 | 39.7 |
| 5/1/2015 21:06:17 | 48.56 | 43.66 | 743 | 1.13 | 0.20 | 40.6 |
| 5/1/2015 21:06:18 | 48.88 | 43.98 | 727 | 1.13 | 0.21 | 39.8 |
| 5/1/2015 21:06:18 | 49.21 | 44.31 | 737 | 1.11 | 0.20 | 40.3 |
| 5/1/2015 21:06:19 | 49.54 | 44.64 | 730 | 1.11 | 0.20 | 39.9 |
| 5/1/2015 21:06:19 | 49.87 | 44.97 | 737 | 1.14 | 0.20 | 40.3 |
| 5/1/2015 21:06:20 | 50.20 | 45.30 | 733 | 1.14 | 0.20 | 40.1 |
| 5/1/2015 21:06:21 | 50.53 | 45.63 | 742 | 1.13 | 0.21 | 40.6 |
| 5/1/2015 21:06:21 | 50.85 | 45.95 | 734 | 1.13 | 0.20 | 40.2 |
| 5/1/2015 21:06:22 | 51.18 | 46.28 | 734 | 1.13 | 0.20 | 40.2 |
| 5/1/2015 21:06:22 | 51.51 | 46.61 | 734 | 1.13 | 0.20 | 40.2 |
| 5/1/2015 21:06:22 | 51.84 | 46.94 | 734 | 1.13 | 0.20 | 40.2 |
| 5/1/2015 21:06:23 | 52.17 | 47.27 | 734 | 1.12 | 0.20 | 40.2 |
| 5/1/2015 21:06:23 | 52.49 | 47.59 | 727 | 1.15 | 0.20 | 39.7 |
| 5/1/2015 21:07:08 | 52.82 | 47.92 | 43 | 1.13 | 1.02 | 2.3 |
| 5/1/2015 21:07:09 | 53.15 | 48.25 | 140 | 1.15 | 0.95 | 7.7 |
| 5/1/2015 21:07:10 | 53.48 | 48.58 | 239 | 1.08 | 1.27 | 13.1 |
| 5/1/2015 21:07:10 | 53.81 | 48.91 | 333 | 1.15 | 1.04 | 18.2 |
| 5/1/2015 21:07:12 | 54.13 | 49.23 | 459 | 1.13 | 1.07 | 25.1 |
| 5/1/2015 21:07:12 | 54.46 | 49.56 | 453 | 1.13 | 1.07 | 24.8 |
| 5/1/2015 21:07:13 | 54.79 | 49.89 | 452 | 1.17 | 1.29 | 24.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 21:07:14 | 55.12 | 50.22 | 458 | 1.17 | 1.06 | 25.0 |
| 5/1/2015 | 21:07:15 | 55.45 | 50.55 | 464 | 1.12 | 1.12 | 25.4 |
| 5/1/2015 | 21:07:15 | 55.77 | 50.87 | 474 | 1.13 | 1.01 | 25.9 |
| 5/1/2015 | 21:07:16 | 56.10 | 51.20 | 456 | 1.22 | 1.62 | 24.9 |
| 5/1/2015 | 21:07:17 | 56.43 | 51.53 | 380 | 1.23 | 1.45 | 20.8 |
| 5/1/2015 | 21:07:19 | 56.76 | 51.86 | 249 | 1.17 | 1.18 | 13.6 |
| 5/1/2015 | 21:07:20 | 57.09 | 52.19 | 288 | 1.15 | 0.91 | 15.7 |
| 5/1/2015 | 21:07:20 | 57.41 | 52.51 | 288 | 1.15 | 0.85 | 15.7 |
| 5/1/2015 | 21:07:24 | 57.74 | 52.84 | 122 | 1.18 | 0.98 | 6.6 |
| 5/1/2015 | 21:07:26 | 58.07 | 53.17 | 138 | 1.19 | 1.01 | 7.5 |
| 5/1/2015 | 21:07:29 | 58.40 | 53.50 | 120 | 1.18 | 1.08 | 6.6 |
| 5/1/2015 | 21:07:31 | 58.73 | 53.83 | 173 | 1.32 | 0.87 | 9.5 |
| 5/1/2015 | 21:07:31 | 59.06 | 54.16 | 289 | 1.25 | 0.98 | 15.8 |
| 5/1/2015 | 21:07:32 | 59.38 | 54.48 | 289 | 1.11 | 0.92 | 15.8 |
| 5/1/2015 | 21:09:49 | 59.71 | 54.81 | 40 | 1.13 | 1.10 | 2.2 |
| 5/1/2015 | 21:09:50 | 60.04 | 55.14 | 164 | 1.12 | 1.01 | 9.0 |
| 5/1/2015 | 21:09:50 | 60.37 | 55.47 | 253 | 1.11 | 0.83 | 13.8 |
| 5/1/2015 | 21:09:51 | 60.70 | 55.80 | 396 | 0.48 | 0.95 | 21.6 |
| 5/1/2015 | 21:09:53 | 61.02 | 56.12 | 267 | 1.09 | 0.79 | 14.6 |

## L91 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/1/2015 21:03:04

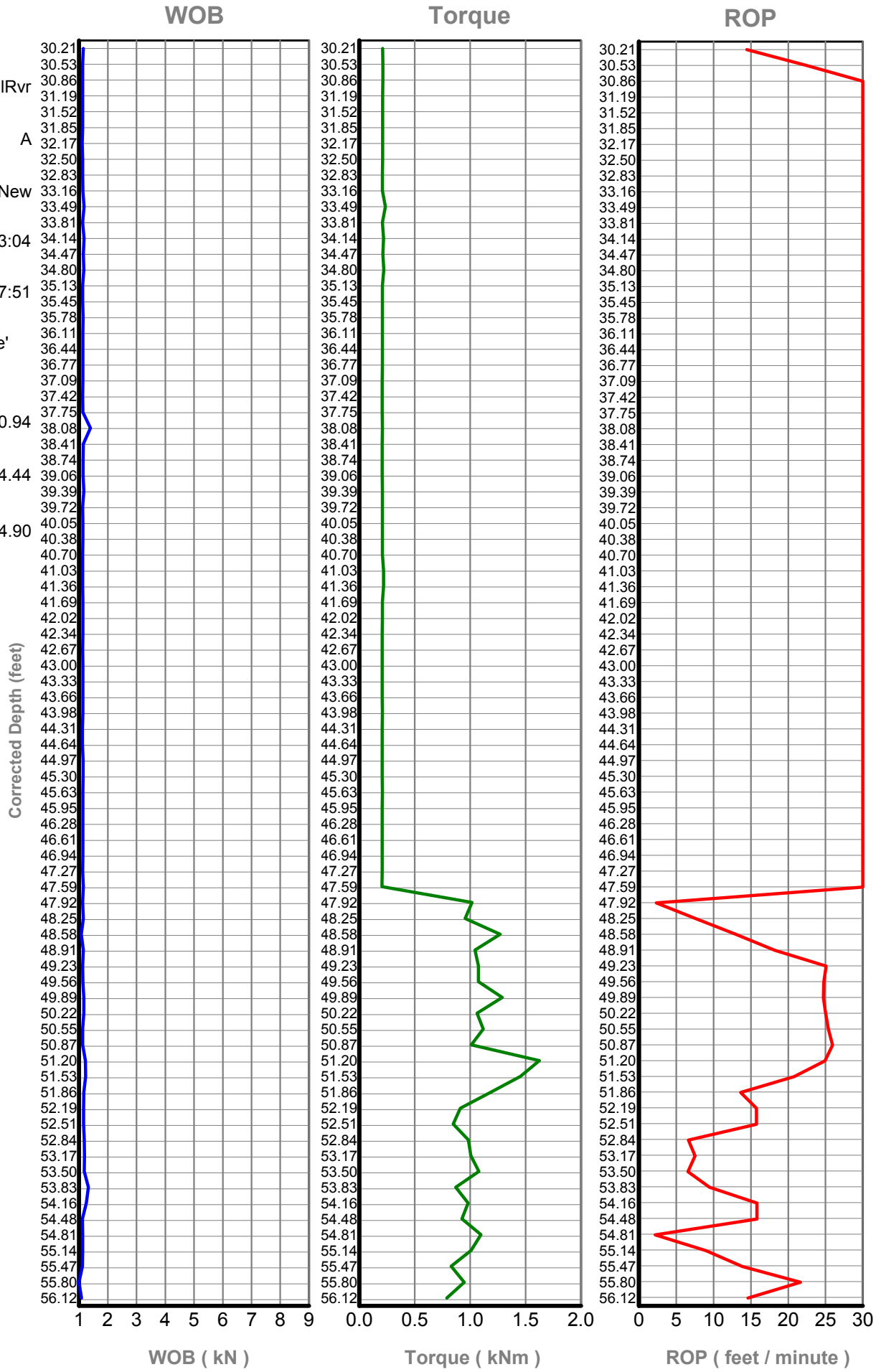
**End Date:**
5/1/2015 21:27:51

**Operator Note:**
'4.9 4.6 a Auto Complete'

**Northing:**
359,440.94

**Easting:**
241,694.44

**Tide (feet):**
4.90



## Hole: L92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:06:07 | 35.11 | 30.11 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:08 | 35.43 | 30.43 | 1,081 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 21:06:08 | 35.76 | 30.76 | 1,081 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 21:06:08 | 36.09 | 31.09 | 1,078 | 0.29 | 0.39 | 59.0 |
| 5/1/2015 21:06:09 | 36.42 | 31.42 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 21:06:09 | 36.75 | 31.75 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 21:06:09 | 37.07 | 32.07 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/1/2015 21:06:10 | 37.40 | 32.40 | 1,073 | 0.35 | 0.38 | 58.7 |
| 5/1/2015 21:06:10 | 37.73 | 32.73 | 1,073 | 0.35 | 0.38 | 58.7 |
| 5/1/2015 21:06:10 | 38.06 | 33.06 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 21:06:11 | 38.39 | 33.39 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 21:06:11 | 38.71 | 33.71 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 21:06:11 | 39.04 | 34.04 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 21:06:12 | 39.37 | 34.37 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 21:06:12 | 39.70 | 34.70 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 21:06:13 | 40.03 | 35.03 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:13 | 40.35 | 35.35 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:13 | 40.68 | 35.68 | 1,081 | 0.36 | 0.38 | 59.1 |
| 5/1/2015 21:06:14 | 41.01 | 36.01 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:14 | 41.34 | 36.34 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:14 | 41.67 | 36.67 | 1,090 | 0.25 | 0.39 | 59.6 |
| 5/1/2015 21:06:15 | 41.99 | 36.99 | 1,090 | 0.25 | 0.39 | 59.6 |
| 5/1/2015 21:06:15 | 42.32 | 37.32 | 1,087 | 0.36 | 0.38 | 59.4 |
| 5/1/2015 21:06:15 | 42.65 | 37.65 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:16 | 42.98 | 37.98 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:16 | 43.31 | 38.31 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:16 | 43.64 | 38.64 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:17 | 43.96 | 38.96 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:17 | 44.29 | 39.29 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:17 | 44.62 | 39.62 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:17 | 44.95 | 39.95 | 1,084 | 0.35 | 0.39 | 59.3 |
| 5/1/2015 21:06:18 | 45.28 | 40.28 | 1,096 | 0.36 | 0.39 | 59.9 |
| 5/1/2015 21:06:18 | 45.60 | 40.60 | 1,096 | 0.36 | 0.39 | 59.9 |
| 5/1/2015 21:06:18 | 45.93 | 40.93 | 1,090 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 21:06:19 | 46.26 | 41.26 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 21:06:19 | 46.59 | 41.59 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 21:06:19 | 46.92 | 41.92 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:20 | 47.24 | 42.24 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:20 | 47.57 | 42.57 | 1,096 | 0.35 | 0.38 | 59.9 |
| 5/1/2015 21:06:20 | 47.90 | 42.90 | 1,090 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 21:06:21 | 48.23 | 43.23 | 1,090 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 21:06:21 | 48.56 | 43.56 | 1,090 | 0.35 | 0.39 | 59.6 |
| 5/1/2015 21:06:21 | 48.88 | 43.88 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:22 | 49.21 | 44.21 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 21:06:22 | 49.54 | 44.54 | 1,102 | 0.36 | 0.38 | 60.3 |
| 5/1/2015 21:06:23 | 49.87 | 44.87 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:23 | 50.20 | 45.20 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 21:06:23 | 50.53 | 45.53 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 21:06:23 | 50.85 | 45.85 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 21:06:24 | 51.18 | 46.18 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 21:06:24 | 51.51 | 46.51 | 1,088 | 0.33 | 0.43 | 59.5 |
| 5/1/2015 21:06:25 | 51.84 | 46.84 | 1,008 | 0.31 | 0.47 | 55.1 |
| 5/1/2015 21:06:28 | 52.17 | 47.17 | 0 | 2.73 | 0.40 | 0.0 |
| 5/1/2015 21:06:31 | 52.49 | 47.49 | 160 | 3.57 | 0.43 | 8.8 |
| 5/1/2015 21:06:32 | 52.82 | 47.82 | 212 | 3.45 | 0.35 | 11.6 |
| 5/1/2015 21:06:32 | 53.15 | 48.15 | 362 | 2.81 | 0.40 | 19.8 |
| 5/1/2015 21:06:33 | 53.48 | 48.48 | 362 | 2.81 | 0.40 | 19.8 |
| 5/1/2015 21:06:33 | 53.81 | 48.81 | 544 | 2.58 | 0.39 | 29.8 |
| 5/1/2015 21:06:34 | 54.13 | 49.13 | 733 | 2.65 | 0.40 | 40.1 |
| 5/1/2015 21:06:34 | 54.46 | 49.46 | 813 | 2.56 | 0.39 | 44.4 |
| 5/1/2015 21:06:35 | 54.79 | 49.79 | 813 | 2.56 | 0.39 | 44.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 21:06:35 | 55.12 | 50.12 | 907 | 2.58 | 0.39 | 49.6 |
| 5/1/2015 | 21:06:35 | 55.45 | 50.45 | 951 | 2.80 | 0.40 | 52.0 |
| 5/1/2015 | 21:06:36 | 55.77 | 50.77 | 951 | 2.80 | 0.40 | 52.0 |
| 5/1/2015 | 21:06:36 | 56.10 | 51.10 | 937 | 3.76 | 0.42 | 51.2 |
| 5/1/2015 | 21:06:36 | 56.43 | 51.43 | 882 | 3.20 | 0.41 | 48.3 |
| 5/1/2015 | 21:06:37 | 56.76 | 51.76 | 840 | 2.87 | 0.41 | 45.9 |
| 5/1/2015 | 21:06:37 | 57.09 | 52.09 | 793 | 2.92 | 0.41 | 43.3 |
| 5/1/2015 | 21:06:38 | 57.41 | 52.41 | 743 | 3.55 | 0.43 | 40.6 |
| 5/1/2015 | 21:06:39 | 57.74 | 52.74 | 633 | 3.72 | 0.44 | 34.6 |
| 5/1/2015 | 21:06:40 | 58.07 | 53.07 | 497 | 3.01 | 0.44 | 27.2 |
| 5/1/2015 | 21:06:40 | 58.40 | 53.40 | 441 | 3.03 | 0.43 | 24.1 |
| 5/1/2015 | 21:06:41 | 58.73 | 53.73 | 442 | 2.96 | 0.42 | 24.2 |
| 5/1/2015 | 21:06:43 | 59.06 | 54.06 | 303 | 2.79 | 0.40 | 16.6 |
| 5/1/2015 | 21:06:43 | 59.38 | 54.38 | 297 | 2.93 | 0.42 | 16.2 |
| 5/1/2015 | 21:06:44 | 59.68 | 54.68 | 305 | 2.96 | 0.44 | 16.7 |

## L92 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/1/2015 21:04:25

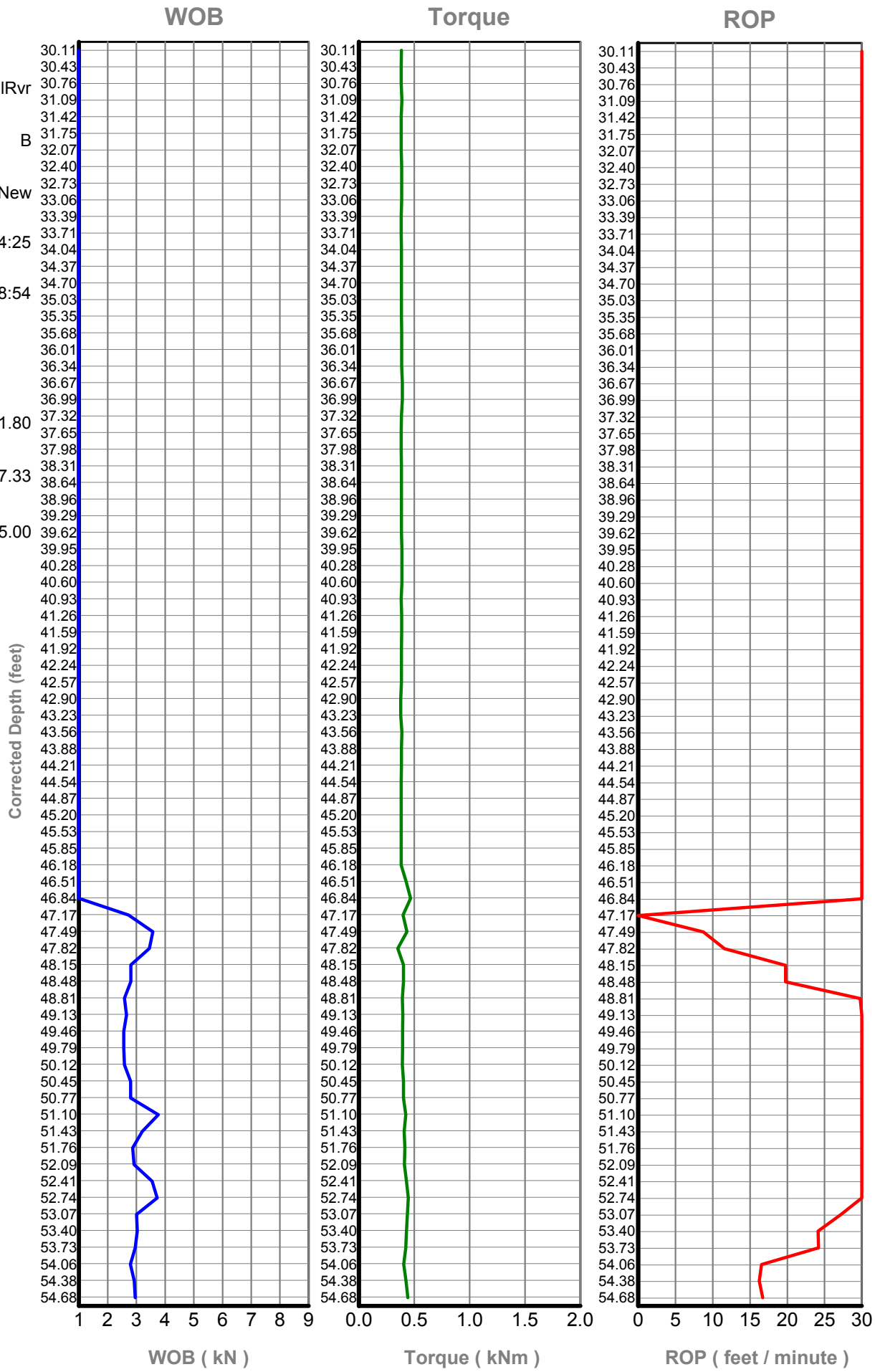
**End Date:**
5/1/2015 21:08:54

**Operator Note:**
'5 4.6b Auto Complete'

**Northing:**
359,481.80

**Easting:**
241,757.33

**Tide (feet):**
5.00



## Hole: L93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 21:04:22 | 35.11 | 30.21 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:04:22 | 35.43 | 30.53 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:04:23 | 35.76 | 30.86 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 21:04:23 | 36.09 | 31.19 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:04:23 | 36.42 | 31.52 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:24 | 36.75 | 31.85 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:24 | 37.07 | 32.17 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:24 | 37.40 | 32.50 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:25 | 37.73 | 32.83 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:25 | 38.06 | 33.16 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 21:04:25 | 38.39 | 33.49 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:26 | 38.71 | 33.81 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 21:04:26 | 39.04 | 34.14 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:04:26 | 39.37 | 34.47 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:27 | 39.70 | 34.80 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:27 | 40.03 | 35.13 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:27 | 40.35 | 35.45 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:28 | 40.68 | 35.78 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:28 | 41.01 | 36.11 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:04:28 | 41.34 | 36.44 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 21:04:29 | 41.67 | 36.77 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 21:04:29 | 41.99 | 37.09 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 21:04:29 | 42.32 | 37.42 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:04:30 | 42.65 | 37.75 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:04:30 | 42.98 | 38.08 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 21:04:31 | 43.31 | 38.41 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 21:04:31 | 43.64 | 38.74 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 21:04:31 | 43.96 | 39.06 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:04:32 | 44.29 | 39.39 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 21:04:32 | 44.62 | 39.72 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:33 | 44.95 | 40.05 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 21:04:33 | 45.28 | 40.38 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:04:33 | 45.60 | 40.70 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:34 | 45.93 | 41.03 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:34 | 46.26 | 41.36 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:34 | 46.59 | 41.69 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:04:35 | 46.92 | 42.02 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 21:04:35 | 47.24 | 42.34 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 21:04:35 | 47.57 | 42.67 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:04:36 | 47.90 | 43.00 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 21:04:36 | 48.23 | 43.33 | 996 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 21:04:36 | 48.56 | 43.66 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:04:37 | 48.88 | 43.98 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 21:04:37 | 49.21 | 44.31 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 21:04:37 | 49.54 | 44.64 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:38 | 49.87 | 44.97 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:38 | 50.20 | 45.30 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:38 | 50.53 | 45.63 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:39 | 50.85 | 45.95 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 21:04:39 | 51.18 | 46.28 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:04:39 | 51.51 | 46.61 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 21:04:40 | 51.84 | 46.94 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 21:04:50 | 52.17 | 47.27 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 21:04:51 | 52.49 | 47.59 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 21:04:52 | 52.82 | 47.92 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 21:04:52 | 53.15 | 48.25 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 21:04:55 | 53.48 | 48.58 | 314 | 1.14 | 0.29 | 17.2 |
| 5/1/2015 21:04:55 | 53.81 | 48.91 | 379 | 1.14 | 0.29 | 20.7 |
| 5/1/2015 21:04:56 | 54.13 | 49.23 | 347 | 1.14 | 0.29 | 19.0 |
| 5/1/2015 21:05:08 | 54.46 | 49.56 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 21:05:09 | 54.79 | 49.89 | 112 | 1.14 | 0.29 | 6.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 21:05:09 | 55.12 | 50.22 | 244 | 1.14 | 0.29 | 13.4 |
| 5/1/2015 | 21:05:10 | 55.45 | 50.55 | 385 | 1.14 | 0.29 | 21.1 |
| 5/1/2015 | 21:05:29 | 55.77 | 50.87 | 97 | 1.14 | 0.29 | 5.3 |
| 5/1/2015 | 21:05:56 | 56.10 | 51.20 | 50 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 21:05:56 | 56.43 | 51.53 | 118 | 1.14 | 0.29 | 6.4 |
| 5/1/2015 | 21:05:57 | 56.76 | 51.86 | 329 | 1.14 | 0.29 | 18.0 |
| 5/1/2015 | 21:05:58 | 57.09 | 52.19 | 429 | 1.14 | 0.29 | 23.5 |
| 5/1/2015 | 21:05:59 | 57.41 | 52.51 | 502 | 1.14 | 0.29 | 27.5 |
| 5/1/2015 | 21:06:11 | 57.74 | 52.84 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 21:06:14 | 58.07 | 53.17 | 105 | 1.14 | 0.29 | 5.8 |
| 5/1/2015 | 21:06:19 | 58.40 | 53.50 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 21:06:25 | 58.73 | 53.83 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 | 21:06:31 | 59.06 | 54.16 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 21:06:38 | 59.38 | 54.48 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 21:06:43 | 59.63 | 54.73 | 55 | 1.14 | 0.29 | 3.0 |

## L93 - Summary

**Pattern Number:**
AreaL_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/1/2015 21:03:08

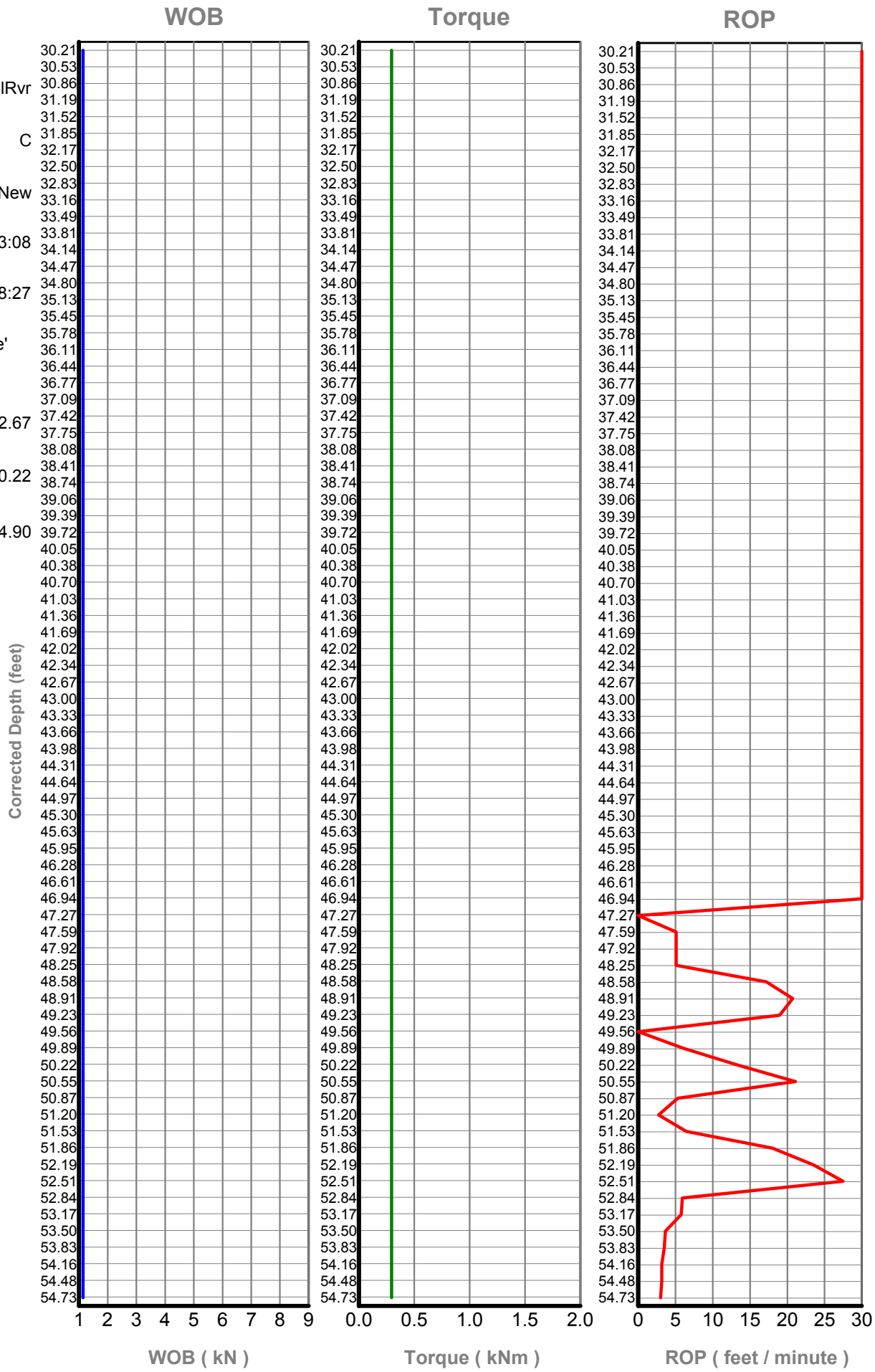
**End Date:**
5/1/2015 21:08:27

**Operator Note:**
'4.9 4.6 c Auto Complete'

**Northing:**
359,522.67

**Easting:**
241,820.22

**Tide (feet):**
4.90



## Hole: L94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 16:00:01 | 32.81 | 30.01 | 924 | 1.12 | 0.14 | 50.5 |
| 5/1/2015 16:00:02 | 33.14 | 30.34 | 924 | 1.12 | 0.14 | 50.5 |
| 5/1/2015 16:00:02 | 33.46 | 30.66 | 924 | 1.13 | 0.14 | 50.5 |
| 5/1/2015 16:00:02 | 33.79 | 30.99 | 929 | 1.13 | 0.14 | 50.8 |
| 5/1/2015 16:00:03 | 34.12 | 31.32 | 919 | 1.12 | 0.14 | 50.3 |
| 5/1/2015 16:00:03 | 34.45 | 31.65 | 919 | 1.12 | 0.14 | 50.3 |
| 5/1/2015 16:00:03 | 34.78 | 31.98 | 919 | 1.13 | 0.15 | 50.3 |
| 5/1/2015 16:00:04 | 35.11 | 32.31 | 909 | 1.11 | 0.15 | 49.7 |
| 5/1/2015 16:00:04 | 35.43 | 32.63 | 909 | 1.12 | 0.14 | 49.7 |
| 5/1/2015 16:00:05 | 35.76 | 32.96 | 909 | 1.12 | 0.14 | 49.7 |
| 5/1/2015 16:00:05 | 36.09 | 33.29 | 939 | 1.11 | 0.14 | 51.4 |
| 5/1/2015 16:00:05 | 36.42 | 33.62 | 923 | 1.12 | 0.15 | 50.5 |
| 5/1/2015 16:00:06 | 36.75 | 33.95 | 923 | 1.12 | 0.15 | 50.5 |
| 5/1/2015 16:00:06 | 37.07 | 34.27 | 923 | 1.11 | 0.15 | 50.5 |
| 5/1/2015 16:00:06 | 37.40 | 34.60 | 919 | 1.13 | 0.15 | 50.3 |
| 5/1/2015 16:00:07 | 37.73 | 34.93 | 908 | 1.11 | 0.15 | 49.7 |
| 5/1/2015 16:00:07 | 38.06 | 35.26 | 908 | 1.11 | 0.15 | 49.7 |
| 5/1/2015 16:00:07 | 38.39 | 35.59 | 908 | 1.11 | 0.15 | 49.7 |
| 5/1/2015 16:00:08 | 38.71 | 35.91 | 927 | 1.12 | 0.15 | 50.7 |
| 5/1/2015 16:00:08 | 39.04 | 36.24 | 912 | 1.13 | 0.15 | 49.8 |
| 5/1/2015 16:00:09 | 39.37 | 36.57 | 912 | 1.13 | 0.15 | 49.8 |
| 5/1/2015 16:00:09 | 39.70 | 36.90 | 936 | 1.13 | 0.15 | 51.2 |
| 5/1/2015 16:00:10 | 40.03 | 37.23 | 901 | 1.11 | 0.14 | 49.3 |
| 5/1/2015 16:00:10 | 40.35 | 37.55 | 901 | 1.14 | 0.14 | 49.3 |
| 5/1/2015 16:00:11 | 40.68 | 37.88 | 901 | 1.14 | 0.14 | 49.3 |
| 5/1/2015 16:00:11 | 41.01 | 38.21 | 938 | 1.11 | 0.14 | 51.3 |
| 5/1/2015 16:00:11 | 41.34 | 38.54 | 925 | 1.11 | 0.15 | 50.6 |
| 5/1/2015 16:00:12 | 41.67 | 38.87 | 898 | 1.11 | 0.15 | 49.1 |
| 5/1/2015 16:00:12 | 41.99 | 39.19 | 898 | 1.11 | 0.15 | 49.1 |
| 5/1/2015 16:00:12 | 42.32 | 39.52 | 892 | 1.11 | 0.15 | 48.8 |
| 5/1/2015 16:00:13 | 42.65 | 39.85 | 892 | 1.11 | 0.15 | 48.8 |
| 5/1/2015 16:00:13 | 42.98 | 40.18 | 926 | 1.13 | 0.13 | 50.6 |
| 5/1/2015 16:00:14 | 43.31 | 40.51 | 926 | 1.13 | 0.13 | 50.6 |
| 5/1/2015 16:00:14 | 43.64 | 40.84 | 899 | 1.10 | 0.15 | 49.2 |
| 5/1/2015 16:00:14 | 43.96 | 41.16 | 897 | 1.12 | 0.15 | 49.0 |
| 5/1/2015 16:00:15 | 44.29 | 41.49 | 897 | 1.12 | 0.15 | 49.0 |
| 5/1/2015 16:00:15 | 44.62 | 41.82 | 924 | 1.13 | 0.15 | 50.5 |
| 5/1/2015 16:00:15 | 44.95 | 42.15 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 16:00:16 | 45.28 | 42.48 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 16:00:16 | 45.60 | 42.80 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 16:00:16 | 45.93 | 43.13 | 905 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 16:00:17 | 46.26 | 43.46 | 915 | 1.11 | 0.15 | 50.0 |
| 5/1/2015 16:00:17 | 46.59 | 43.79 | 915 | 1.12 | 0.16 | 50.0 |
| 5/1/2015 16:00:18 | 46.92 | 44.12 | 915 | 1.12 | 0.16 | 50.0 |
| 5/1/2015 16:00:18 | 47.24 | 44.44 | 913 | 1.12 | 0.15 | 49.9 |
| 5/1/2015 16:00:25 | 47.57 | 44.77 | 9 | 1.17 | 0.88 | 0.5 |
| 5/1/2015 16:00:32 | 47.90 | 45.10 | 12 | 1.19 | 0.94 | 0.6 |
| 5/1/2015 16:00:33 | 48.23 | 45.43 | 155 | 1.15 | 1.33 | 8.5 |
| 5/1/2015 16:00:35 | 48.56 | 45.76 | 262 | 1.15 | 0.82 | 14.3 |
| 5/1/2015 16:00:35 | 48.88 | 46.08 | 262 | 1.14 | 0.93 | 14.3 |
| 5/1/2015 16:00:36 | 49.21 | 46.41 | 333 | 1.16 | 0.93 | 18.2 |
| 5/1/2015 16:00:38 | 49.54 | 46.74 | 334 | 1.17 | 0.96 | 18.3 |
| 5/1/2015 16:00:39 | 49.87 | 47.07 | 226 | 1.20 | 0.96 | 12.3 |
| 5/1/2015 16:00:42 | 50.20 | 47.40 | 156 | 1.17 | 0.86 | 8.5 |
| 5/1/2015 16:00:44 | 50.53 | 47.73 | 191 | 1.15 | 0.91 | 10.4 |
| 5/1/2015 16:00:47 | 50.85 | 48.05 | 104 | 1.15 | 1.04 | 5.7 |
| 5/1/2015 16:00:49 | 51.18 | 48.38 | 138 | 1.16 | 1.03 | 7.6 |
| 5/1/2015 16:00:54 | 51.51 | 48.71 | 90 | 1.17 | 1.02 | 4.9 |
| 5/1/2015 16:00:57 | 51.84 | 49.04 | 90 | 1.16 | 0.96 | 4.9 |
| 5/1/2015 16:01:02 | 52.17 | 49.37 | 81 | 1.09 | 0.96 | 4.4 |
| 5/1/2015 16:01:05 | 52.49 | 49.69 | 133 | 1.14 | 1.02 | 7.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 16:01:07 | 52.82 | 50.02 | 118 | 1.16 | 1.00 | 6.4 |
| 5/1/2015 | 16:01:09 | 53.15 | 50.35 | 167 | 1.11 | 0.95 | 9.1 |
| 5/1/2015 | 16:01:11 | 53.48 | 50.68 | 178 | 1.03 | 0.99 | 9.8 |
| 5/1/2015 | 16:01:14 | 53.81 | 51.01 | 162 | 1.07 | 1.11 | 8.8 |
| 5/1/2015 | 16:01:16 | 54.13 | 51.33 | 173 | 1.10 | 0.99 | 9.5 |
| 5/1/2015 | 16:01:17 | 54.46 | 51.66 | 185 | 1.06 | 0.94 | 10.1 |
| 5/1/2015 | 16:01:20 | 54.79 | 51.99 | 153 | 1.06 | 1.07 | 8.4 |
| 5/1/2015 | 16:01:23 | 55.12 | 52.32 | 124 | 1.08 | 1.03 | 6.8 |
| 5/1/2015 | 16:01:26 | 55.45 | 52.65 | 124 | 1.11 | 1.22 | 6.8 |
| 5/1/2015 | 16:01:29 | 55.77 | 52.97 | 127 | 1.01 | 1.13 | 6.9 |
| 5/1/2015 | 16:01:31 | 56.10 | 53.30 | 124 | 1.03 | 1.09 | 6.8 |
| 5/1/2015 | 16:01:35 | 56.43 | 53.63 | 121 | 1.10 | 1.12 | 6.6 |
| 5/1/2015 | 16:01:38 | 56.76 | 53.96 | 90 | 1.03 | 1.17 | 4.9 |
| 5/1/2015 | 16:01:43 | 57.09 | 54.29 | 81 | 1.06 | 1.12 | 4.4 |
| 5/1/2015 | 16:01:48 | 57.41 | 54.61 | 72 | 1.03 | 1.21 | 4.0 |
| 5/1/2015 | 16:01:52 | 57.74 | 54.94 | 94 | 1.13 | 1.20 | 5.1 |
| 5/1/2015 | 16:01:54 | 57.93 | 55.13 | 93 | 1.21 | 1.30 | 5.1 |

## L94 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:58:47

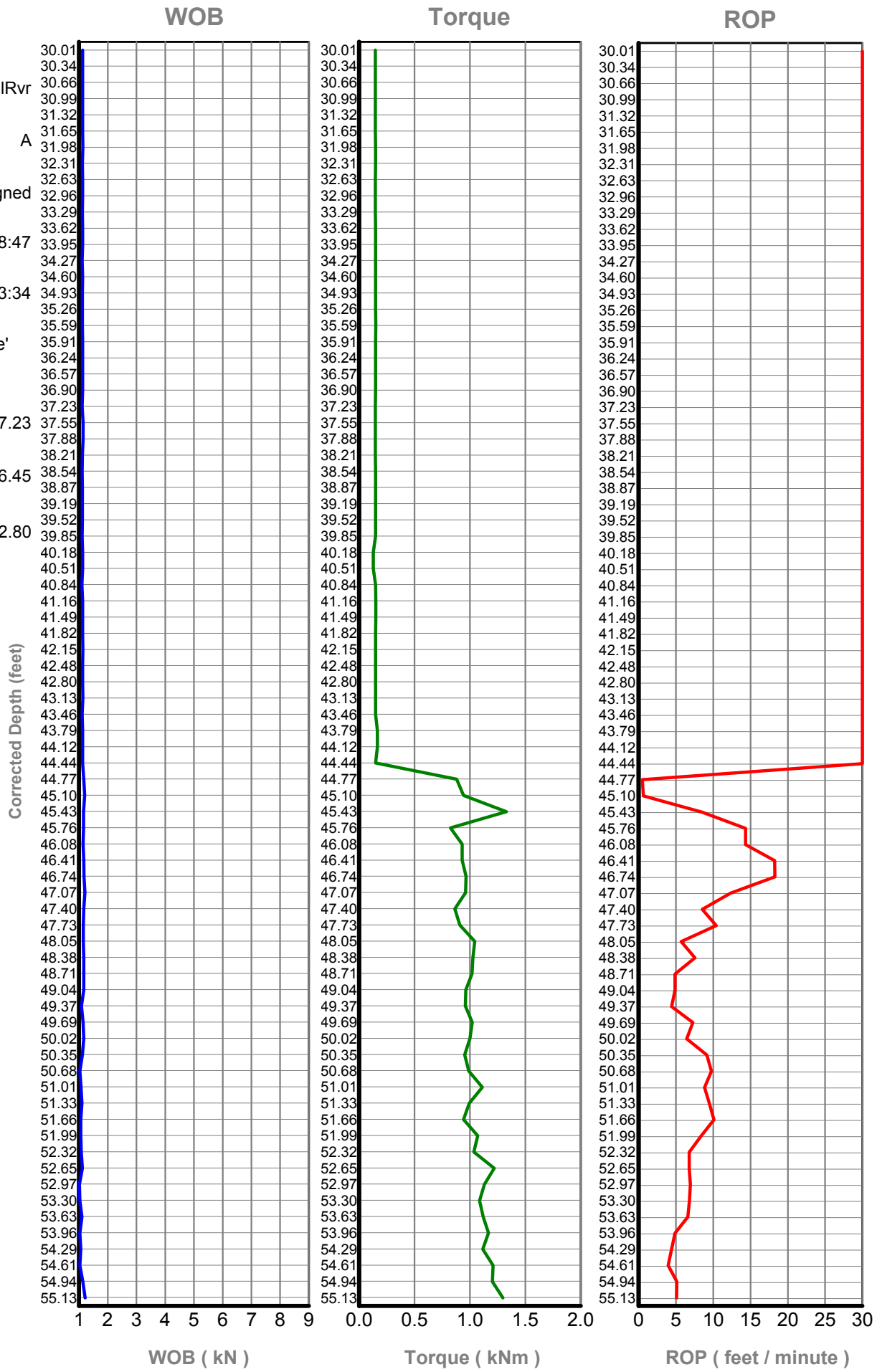
**End Date:**
5/1/2015 16:03:34

**Operator Note:**
'2.8 2.9 a Auto Complete'

**Northing:**
359,557.23

**Easting:**
241,876.45

**Tide (feet):**
2.80



## Hole: L95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:59:55 | 32.81 | 30.01 | 1,217 | 0.29 | 0.36 | 66.6 |
| 5/1/2015 15:59:56 | 33.14 | 30.34 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 15:59:56 | 33.46 | 30.66 | 1,217 | 0.29 | 0.37 | 66.6 |
| 5/1/2015 15:59:56 | 33.79 | 30.99 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 15:59:57 | 34.12 | 31.32 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/1/2015 15:59:57 | 34.45 | 31.65 | 1,236 | 0.39 | 0.37 | 67.6 |
| 5/1/2015 15:59:57 | 34.78 | 31.98 | 1,236 | 0.39 | 0.37 | 67.6 |
| 5/1/2015 15:59:57 | 35.11 | 32.31 | 1,220 | 0.39 | 0.39 | 66.7 |
| 5/1/2015 15:59:58 | 35.43 | 32.63 | 1,220 | 0.39 | 0.39 | 66.7 |
| 5/1/2015 15:59:58 | 35.76 | 32.96 | 1,211 | 0.40 | 0.40 | 66.2 |
| 5/1/2015 15:59:58 | 36.09 | 33.29 | 1,203 | 0.41 | 0.40 | 65.8 |
| 5/1/2015 15:59:59 | 36.42 | 33.62 | 1,203 | 0.41 | 0.40 | 65.8 |
| 5/1/2015 15:59:59 | 36.75 | 33.95 | 1,197 | 0.41 | 0.39 | 65.5 |
| 5/1/2015 15:59:59 | 37.07 | 34.27 | 1,197 | 0.41 | 0.39 | 65.5 |
| 5/1/2015 15:59:59 | 37.40 | 34.60 | 1,185 | 0.41 | 0.39 | 64.8 |
| 5/1/2015 16:00:00 | 37.73 | 34.93 | 1,188 | 0.35 | 0.38 | 65.0 |
| 5/1/2015 16:00:00 | 38.06 | 35.26 | 1,188 | 0.35 | 0.38 | 65.0 |
| 5/1/2015 16:00:00 | 38.39 | 35.59 | 1,184 | 0.30 | 0.36 | 64.7 |
| 5/1/2015 16:00:01 | 38.71 | 35.91 | 1,184 | 0.30 | 0.36 | 64.7 |
| 5/1/2015 16:00:01 | 39.04 | 36.24 | 1,206 | 0.29 | 0.36 | 65.9 |
| 5/1/2015 16:00:02 | 39.37 | 36.57 | 1,206 | 0.29 | 0.36 | 65.9 |
| 5/1/2015 16:00:01 | 39.70 | 36.90 | 1,214 | 0.33 | 0.37 | 66.4 |
| 5/1/2015 16:00:02 | 40.03 | 37.23 | 1,214 | 0.33 | 0.37 | 66.4 |
| 5/1/2015 16:00:02 | 40.35 | 37.55 | 1,214 | 0.35 | 0.36 | 66.4 |
| 5/1/2015 16:00:03 | 40.68 | 37.88 | 1,211 | 0.35 | 0.38 | 66.2 |
| 5/1/2015 16:00:03 | 41.01 | 38.21 | 1,211 | 0.35 | 0.38 | 66.2 |
| 5/1/2015 16:00:03 | 41.34 | 38.54 | 1,214 | 0.30 | 0.36 | 66.4 |
| 5/1/2015 16:00:04 | 41.67 | 38.87 | 1,214 | 0.30 | 0.36 | 66.4 |
| 5/1/2015 16:00:04 | 41.99 | 39.19 | 1,208 | 0.29 | 0.37 | 66.1 |
| 5/1/2015 16:00:04 | 42.32 | 39.52 | 1,208 | 0.29 | 0.37 | 66.1 |
| 5/1/2015 16:00:04 | 42.65 | 39.85 | 1,205 | 0.29 | 0.36 | 65.9 |
| 5/1/2015 16:00:05 | 42.98 | 40.18 | 1,204 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:00:05 | 43.31 | 40.51 | 1,204 | 0.29 | 0.37 | 65.9 |
| 5/1/2015 16:00:05 | 43.64 | 40.84 | 1,226 | 0.29 | 0.37 | 67.0 |
| 5/1/2015 16:00:06 | 43.96 | 41.16 | 1,226 | 0.29 | 0.37 | 67.0 |
| 5/1/2015 16:00:06 | 44.29 | 41.49 | 1,229 | 0.29 | 0.36 | 67.2 |
| 5/1/2015 16:00:06 | 44.62 | 41.82 | 1,229 | 0.29 | 0.36 | 67.2 |
| 5/1/2015 16:00:06 | 44.95 | 42.15 | 1,229 | 0.33 | 0.37 | 67.2 |
| 5/1/2015 16:00:07 | 45.28 | 42.48 | 1,229 | 0.33 | 0.37 | 67.2 |
| 5/1/2015 16:00:07 | 45.60 | 42.80 | 1,229 | 0.30 | 0.36 | 67.2 |
| 5/1/2015 16:00:07 | 45.93 | 43.13 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 16:00:08 | 46.26 | 43.46 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/1/2015 16:00:08 | 46.59 | 43.79 | 1,226 | 0.29 | 0.35 | 67.0 |
| 5/1/2015 16:00:08 | 46.92 | 44.12 | 1,226 | 0.29 | 0.35 | 67.0 |
| 5/1/2015 16:00:08 | 47.24 | 44.44 | 1,226 | 0.30 | 0.36 | 67.0 |
| 5/1/2015 16:00:09 | 47.57 | 44.77 | 1,226 | 0.30 | 0.36 | 67.0 |
| 5/1/2015 16:00:09 | 47.90 | 45.10 | 1,224 | 0.32 | 0.37 | 66.9 |
| 5/1/2015 16:00:09 | 48.23 | 45.43 | 1,224 | 0.32 | 0.37 | 66.9 |
| 5/1/2015 16:00:09 | 48.56 | 45.76 | 1,231 | 0.32 | 0.36 | 67.3 |
| 5/1/2015 16:00:10 | 48.88 | 46.08 | 1,220 | 0.27 | 0.43 | 66.7 |
| 5/1/2015 16:00:16 | 49.21 | 46.41 | 0 | 3.03 | 0.42 | 0.0 |
| 5/1/2015 16:00:19 | 49.54 | 46.74 | 152 | 3.32 | 0.42 | 8.3 |
| 5/1/2015 16:00:22 | 49.87 | 47.07 | 113 | 5.41 | 0.48 | 6.2 |
| 5/1/2015 16:00:26 | 50.20 | 47.40 | 83 | 3.51 | 0.48 | 4.5 |
| 5/1/2015 16:00:52 | 50.53 | 47.73 | 0 | 2.79 | 0.47 | 0.0 |
| 5/1/2015 16:01:01 | 50.85 | 48.05 | 41 | 2.91 | 0.46 | 2.2 |
| 5/1/2015 16:01:09 | 51.18 | 48.38 | 41 | 2.90 | 0.46 | 2.2 |
| 5/1/2015 16:01:16 | 51.51 | 48.71 | 55 | 2.91 | 0.46 | 3.0 |
| 5/1/2015 16:01:20 | 51.68 | 48.88 | 40 | 3.03 | 0.46 | 2.2 |

## L95 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:58:14

**End Date:**
5/1/2015 16:03:11

**Operator Note:**
'2.8 2.9 b Auto Complete'

**Northing:**
359,598.60

**Easting:**
241,938.87

**Tide (feet):**
2.80



## Hole: L96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 15:59:13 | 32.81 | 30.01 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:13 | 33.14 | 30.34 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:13 | 33.46 | 30.66 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 15:59:14 | 33.79 | 30.99 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:14 | 34.12 | 31.32 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:14 | 34.45 | 31.65 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 15:59:15 | 34.78 | 31.98 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/1/2015 15:59:15 | 35.11 | 32.31 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:15 | 35.43 | 32.63 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 15:59:16 | 35.76 | 32.96 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 15:59:16 | 36.09 | 33.29 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:16 | 36.42 | 33.62 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:16 | 36.75 | 33.95 | 1,126 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:17 | 37.07 | 34.27 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:17 | 37.40 | 34.60 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:17 | 37.73 | 34.93 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:18 | 38.06 | 35.26 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:18 | 38.39 | 35.59 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:18 | 38.71 | 35.91 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:19 | 39.04 | 36.24 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:19 | 39.37 | 36.57 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:19 | 39.70 | 36.90 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 15:59:20 | 40.03 | 37.23 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/1/2015 15:59:20 | 40.35 | 37.55 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 15:59:20 | 40.68 | 37.88 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/1/2015 15:59:21 | 41.01 | 38.21 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/1/2015 15:59:21 | 41.34 | 38.54 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:22 | 41.67 | 38.87 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/1/2015 15:59:22 | 41.99 | 39.19 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/1/2015 15:59:22 | 42.32 | 39.52 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:23 | 42.65 | 39.85 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:23 | 42.98 | 40.18 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:23 | 43.31 | 40.51 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/1/2015 15:59:23 | 43.64 | 40.84 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/1/2015 15:59:24 | 43.96 | 41.16 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:24 | 44.29 | 41.49 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:24 | 44.62 | 41.82 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/1/2015 15:59:25 | 44.95 | 42.15 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/1/2015 15:59:25 | 45.28 | 42.48 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/1/2015 15:59:25 | 45.60 | 42.80 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 15:59:26 | 45.93 | 43.13 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/1/2015 15:59:26 | 46.26 | 43.46 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 15:59:26 | 46.59 | 43.79 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 15:59:27 | 46.92 | 44.12 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/1/2015 15:59:27 | 47.24 | 44.44 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/1/2015 15:59:27 | 47.57 | 44.77 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/1/2015 15:59:43 | 47.90 | 45.10 | 39 | 1.14 | 0.29 | 2.1 |
| 5/1/2015 15:59:44 | 48.23 | 45.43 | 142 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 15:59:46 | 48.56 | 45.76 | 322 | 1.14 | 0.29 | 17.6 |
| 5/1/2015 15:59:51 | 48.88 | 46.08 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 15:59:55 | 49.21 | 46.41 | 82 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 16:00:00 | 49.54 | 46.74 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 16:00:05 | 49.87 | 47.07 | 74 | 1.14 | 0.29 | 4.0 |
| 5/1/2015 16:00:10 | 50.20 | 47.40 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 16:00:15 | 50.53 | 47.73 | 50 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 16:00:23 | 50.85 | 48.05 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 16:00:24 | 50.91 | 48.11 | 44 | 1.14 | 0.29 | 2.4 |

## L96 - Summary

**Pattern Number:**
AreaL_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 15:58:07

**End Date:**
5/1/2015 16:01:48

**Operator Note:**
'2.8 2.9 c Auto Complete'

**Northing:**
359,639.22

**Easting:**
242,001.28

**Tide (feet):**
2.80



## Hole: L97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:41:35 | 34.12 | 30.22 | 933 | 1.12 | 0.15 | 51.0 |
| 5/1/2015 14:41:36 | 34.45 | 30.55 | 933 | 1.12 | 0.15 | 51.0 |
| 5/1/2015 14:41:36 | 34.78 | 30.88 | 915 | 1.14 | 0.15 | 50.0 |
| 5/1/2015 14:41:36 | 35.11 | 31.21 | 915 | 1.15 | 0.15 | 50.0 |
| 5/1/2015 14:41:37 | 35.43 | 31.53 | 916 | 1.13 | 0.15 | 50.1 |
| 5/1/2015 14:41:37 | 35.76 | 31.86 | 916 | 1.13 | 0.15 | 50.1 |
| 5/1/2015 14:41:37 | 36.09 | 32.19 | 930 | 1.14 | 0.15 | 50.8 |
| 5/1/2015 14:41:38 | 36.42 | 32.52 | 899 | 1.14 | 0.15 | 49.2 |
| 5/1/2015 14:41:38 | 36.75 | 32.85 | 918 | 1.14 | 0.15 | 50.2 |
| 5/1/2015 14:41:39 | 37.07 | 33.17 | 918 | 1.14 | 0.15 | 50.2 |
| 5/1/2015 14:41:39 | 37.40 | 33.50 | 918 | 1.13 | 0.15 | 50.2 |
| 5/1/2015 14:41:39 | 37.73 | 33.83 | 920 | 1.13 | 0.15 | 50.3 |
| 5/1/2015 14:41:40 | 38.06 | 34.16 | 922 | 1.14 | 0.16 | 50.4 |
| 5/1/2015 14:41:40 | 38.39 | 34.49 | 922 | 1.14 | 0.16 | 50.4 |
| 5/1/2015 14:41:40 | 38.71 | 34.81 | 919 | 1.15 | 0.15 | 50.3 |
| 5/1/2015 14:41:41 | 39.04 | 35.14 | 946 | 1.13 | 0.15 | 51.8 |
| 5/1/2015 14:41:41 | 39.37 | 35.47 | 946 | 1.13 | 0.15 | 51.8 |
| 5/1/2015 14:41:42 | 39.70 | 35.80 | 946 | 1.13 | 0.15 | 51.8 |
| 5/1/2015 14:41:42 | 40.03 | 36.13 | 944 | 1.13 | 0.15 | 51.6 |
| 5/1/2015 14:41:43 | 40.35 | 36.45 | 953 | 1.13 | 0.15 | 52.1 |
| 5/1/2015 14:41:43 | 40.68 | 36.78 | 953 | 1.13 | 0.15 | 52.1 |
| 5/1/2015 14:41:43 | 41.01 | 37.11 | 923 | 1.13 | 0.15 | 50.5 |
| 5/1/2015 14:41:44 | 41.34 | 37.44 | 923 | 1.14 | 0.15 | 50.5 |
| 5/1/2015 14:41:44 | 41.67 | 37.77 | 930 | 1.15 | 0.15 | 50.9 |
| 5/1/2015 14:41:45 | 41.99 | 38.09 | 930 | 1.15 | 0.15 | 50.9 |
| 5/1/2015 14:41:45 | 42.32 | 38.42 | 909 | 1.11 | 0.15 | 49.7 |
| 5/1/2015 14:41:45 | 42.65 | 38.75 | 909 | 1.13 | 0.15 | 49.7 |
| 5/1/2015 14:41:46 | 42.98 | 39.08 | 912 | 1.13 | 0.15 | 49.9 |
| 5/1/2015 14:41:46 | 43.31 | 39.41 | 912 | 1.13 | 0.15 | 49.9 |
| 5/1/2015 14:41:46 | 43.64 | 39.74 | 906 | 1.13 | 0.15 | 49.5 |
| 5/1/2015 14:41:47 | 43.96 | 40.06 | 925 | 1.13 | 0.15 | 50.6 |
| 5/1/2015 14:41:47 | 44.29 | 40.39 | 909 | 1.15 | 0.15 | 49.7 |
| 5/1/2015 14:41:48 | 44.62 | 40.72 | 909 | 1.15 | 0.15 | 49.7 |
| 5/1/2015 14:41:48 | 44.95 | 41.05 | 928 | 1.14 | 0.15 | 50.7 |
| 5/1/2015 14:41:48 | 45.28 | 41.38 | 916 | 1.14 | 0.15 | 50.1 |
| 5/1/2015 14:41:49 | 45.60 | 41.70 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 14:41:49 | 45.93 | 42.03 | 916 | 1.15 | 0.15 | 50.1 |
| 5/1/2015 14:41:49 | 46.26 | 42.36 | 908 | 1.13 | 0.15 | 49.7 |
| 5/1/2015 14:41:50 | 46.59 | 42.69 | 917 | 1.13 | 0.15 | 50.1 |
| 5/1/2015 14:41:50 | 46.92 | 43.02 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 14:41:51 | 47.24 | 43.34 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 14:41:51 | 47.57 | 43.67 | 914 | 1.13 | 0.15 | 50.0 |
| 5/1/2015 14:41:51 | 47.90 | 44.00 | 908 | 1.19 | 0.15 | 49.7 |
| 5/1/2015 14:41:58 | 48.23 | 44.33 | 0 | 1.17 | 1.03 | 0.0 |
| 5/1/2015 14:42:07 | 48.56 | 44.66 | 100 | 1.17 | 0.92 | 5.5 |
| 5/1/2015 14:42:08 | 48.88 | 44.98 | 225 | 1.18 | 1.24 | 12.3 |
| 5/1/2015 14:42:10 | 49.21 | 45.31 | 210 | 1.20 | 1.16 | 11.5 |
| 5/1/2015 14:42:15 | 49.54 | 45.64 | 86 | 1.17 | 1.49 | 4.7 |
| 5/1/2015 14:42:21 | 49.87 | 45.97 | 49 | 2.10 | 1.16 | 2.7 |
| 5/1/2015 14:42:24 | 50.20 | 46.30 | 104 | 1.17 | 1.15 | 5.7 |
| 5/1/2015 14:42:28 | 50.53 | 46.63 | 116 | 1.12 | 1.16 | 6.3 |
| 5/1/2015 14:42:31 | 50.85 | 46.95 | 121 | 1.11 | 1.21 | 6.6 |
| 5/1/2015 14:42:34 | 51.18 | 47.28 | 100 | 1.13 | 1.17 | 5.4 |
| 5/1/2015 14:42:37 | 51.51 | 47.61 | 118 | 1.08 | 1.26 | 6.5 |
| 5/1/2015 14:42:40 | 51.84 | 47.94 | 139 | 1.02 | 1.20 | 7.6 |
| 5/1/2015 14:42:42 | 52.17 | 48.27 | 142 | 1.13 | 1.28 | 7.7 |
| 5/1/2015 14:42:44 | 52.49 | 48.59 | 138 | 1.11 | 1.32 | 7.6 |
| 5/1/2015 14:42:47 | 52.82 | 48.92 | 150 | 1.09 | 1.25 | 8.2 |
| 5/1/2015 14:42:51 | 53.15 | 49.25 | 98 | 1.15 | 1.10 | 5.4 |
| 5/1/2015 14:42:54 | 53.48 | 49.58 | 110 | 1.15 | 1.15 | 6.0 |
| 5/1/2015 14:43:00 | 53.81 | 49.91 | 61 | 1.04 | 1.17 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:43:06 | 54.13 | 50.23 | 52 | 1.10 | 1.03 | 2.8 |
| 5/1/2015 | 14:43:13 | 54.46 | 50.56 | 49 | 1.14 | 1.06 | 2.7 |
| 5/1/2015 | 14:43:21 | 54.79 | 50.89 | 46 | 1.04 | 1.07 | 2.5 |
| 5/1/2015 | 14:43:26 | 55.10 | 51.20 | 59 | 0.58 | 1.25 | 3.2 |

## L97 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:40:19

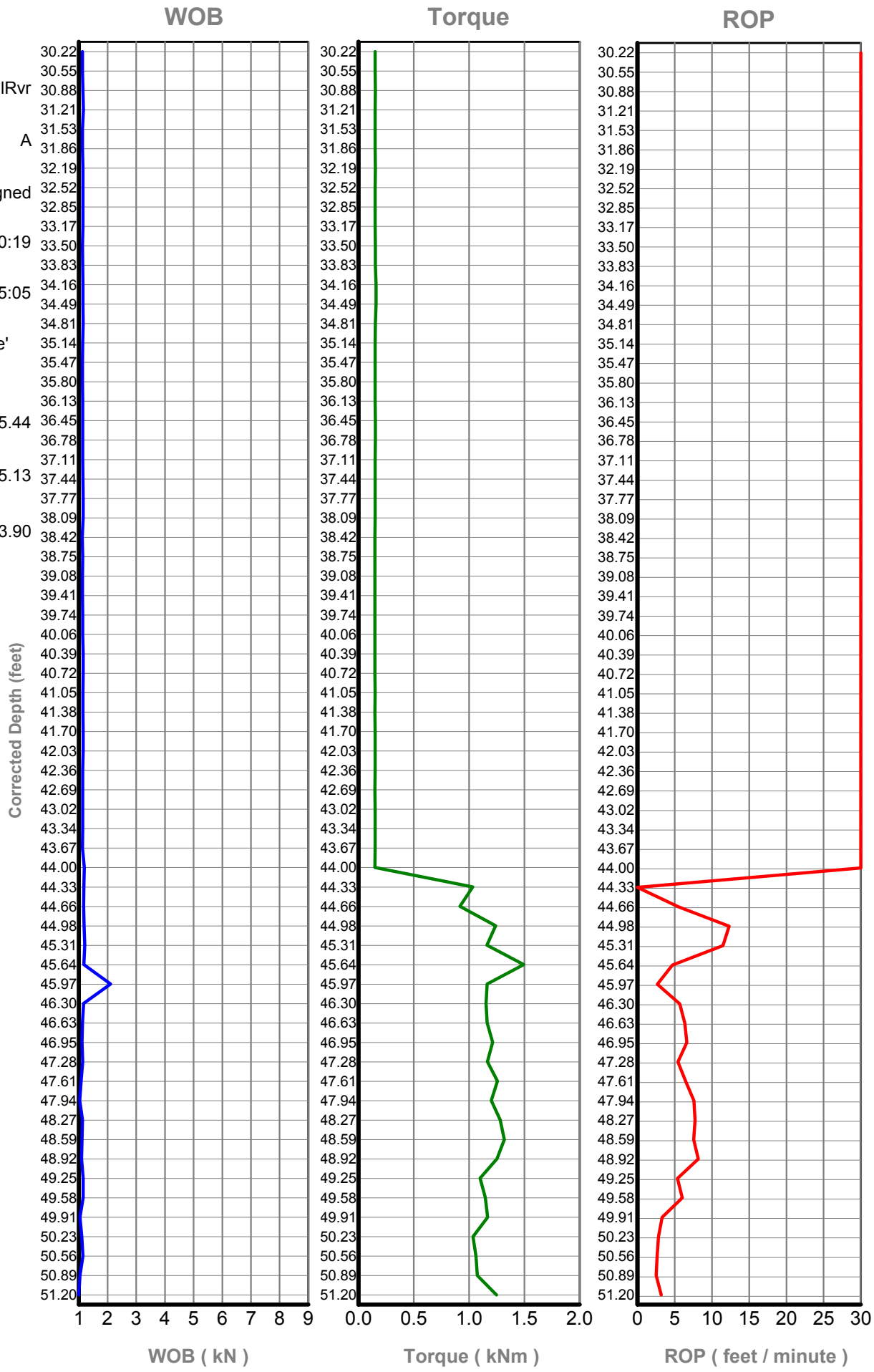
**End Date:**
5/1/2015 14:45:05

**Operator Note:**
'3.9 4.1 a Auto Complete'

**Northing:**
359,685.44

**Easting:**
242,065.13

**Tide (feet):**
3.90



## Hole: L98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:41:35 | 34.12 | 30.22 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 14:41:35 | 34.45 | 30.55 | 1,193 | 0.29 | 0.36 | 65.2 |
| 5/1/2015 14:41:36 | 34.78 | 30.88 | 1,193 | 0.29 | 0.36 | 65.2 |
| 5/1/2015 14:41:36 | 35.11 | 31.21 | 1,182 | 0.29 | 0.37 | 64.7 |
| 5/1/2015 14:41:36 | 35.43 | 31.53 | 1,182 | 0.29 | 0.37 | 64.7 |
| 5/1/2015 14:41:36 | 35.76 | 31.86 | 1,182 | 0.33 | 0.37 | 64.6 |
| 5/1/2015 14:41:37 | 36.09 | 32.19 | 1,182 | 0.33 | 0.37 | 64.6 |
| 5/1/2015 14:41:37 | 36.42 | 32.52 | 1,172 | 0.32 | 0.37 | 64.1 |
| 5/1/2015 14:41:37 | 36.75 | 32.85 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/1/2015 14:41:38 | 37.07 | 33.17 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/1/2015 14:41:38 | 37.40 | 33.50 | 1,161 | 0.30 | 0.36 | 63.5 |
| 5/1/2015 14:41:38 | 37.73 | 33.83 | 1,161 | 0.30 | 0.36 | 63.5 |
| 5/1/2015 14:41:38 | 38.06 | 34.16 | 1,174 | 0.29 | 0.38 | 64.2 |
| 5/1/2015 14:41:39 | 38.39 | 34.49 | 1,177 | 0.29 | 0.36 | 64.4 |
| 5/1/2015 14:41:39 | 38.71 | 34.81 | 1,177 | 0.29 | 0.36 | 64.4 |
| 5/1/2015 14:41:39 | 39.04 | 35.14 | 1,184 | 0.30 | 0.37 | 64.7 |
| 5/1/2015 14:41:40 | 39.37 | 35.47 | 1,184 | 0.30 | 0.37 | 64.7 |
| 5/1/2015 14:41:40 | 39.70 | 35.80 | 1,170 | 0.33 | 0.38 | 64.0 |
| 5/1/2015 14:41:40 | 40.03 | 36.13 | 1,170 | 0.33 | 0.38 | 64.0 |
| 5/1/2015 14:41:40 | 40.35 | 36.45 | 1,196 | 0.31 | 0.37 | 65.4 |
| 5/1/2015 14:41:41 | 40.68 | 36.78 | 1,193 | 0.31 | 0.37 | 65.2 |
| 5/1/2015 14:41:41 | 41.01 | 37.11 | 1,193 | 0.31 | 0.37 | 65.2 |
| 5/1/2015 14:41:41 | 41.34 | 37.44 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/1/2015 14:41:42 | 41.67 | 37.77 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/1/2015 14:41:42 | 41.99 | 38.09 | 1,183 | 0.31 | 0.39 | 64.7 |
| 5/1/2015 14:41:42 | 42.32 | 38.42 | 1,183 | 0.31 | 0.39 | 64.7 |
| 5/1/2015 14:41:42 | 42.65 | 38.75 | 1,209 | 0.30 | 0.37 | 66.1 |
| 5/1/2015 14:41:43 | 42.98 | 39.08 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 14:41:43 | 43.31 | 39.41 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 14:41:43 | 43.64 | 39.74 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 14:41:44 | 43.96 | 40.06 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 14:41:44 | 44.29 | 40.39 | 1,197 | 0.29 | 0.37 | 65.4 |
| 5/1/2015 14:41:45 | 44.62 | 40.72 | 1,197 | 0.29 | 0.37 | 65.4 |
| 5/1/2015 14:41:44 | 44.95 | 41.05 | 1,200 | 0.29 | 0.38 | 65.6 |
| 5/1/2015 14:41:45 | 45.28 | 41.38 | 1,197 | 0.30 | 0.36 | 65.4 |
| 5/1/2015 14:41:46 | 45.60 | 41.70 | 1,197 | 0.30 | 0.36 | 65.4 |
| 5/1/2015 14:41:46 | 45.93 | 42.03 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:41:46 | 46.26 | 42.36 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/1/2015 14:41:46 | 46.59 | 42.69 | 1,195 | 0.29 | 0.36 | 65.4 |
| 5/1/2015 14:41:47 | 46.92 | 43.02 | 1,195 | 0.29 | 0.36 | 65.4 |
| 5/1/2015 14:41:47 | 47.24 | 43.34 | 1,203 | 0.29 | 0.37 | 65.8 |
| 5/1/2015 14:41:47 | 47.57 | 43.67 | 1,203 | 0.29 | 0.36 | 65.8 |
| 5/1/2015 14:41:48 | 47.90 | 44.00 | 1,203 | 0.29 | 0.36 | 65.8 |
| 5/1/2015 14:41:48 | 48.23 | 44.33 | 1,196 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 14:41:48 | 48.56 | 44.66 | 1,196 | 0.30 | 0.37 | 65.4 |
| 5/1/2015 14:41:48 | 48.88 | 44.98 | 1,203 | 0.29 | 0.41 | 65.8 |
| 5/1/2015 14:42:11 | 49.21 | 45.31 | 3 | 3.86 | 0.46 | 0.2 |
| 5/1/2015 14:42:15 | 49.54 | 45.64 | 79 | 3.79 | 0.46 | 4.3 |
| 5/1/2015 14:42:19 | 49.87 | 45.97 | 107 | 3.79 | 0.45 | 5.9 |
| 5/1/2015 14:42:23 | 50.20 | 46.30 | 75 | 3.58 | 0.46 | 4.1 |
| 5/1/2015 14:42:28 | 50.53 | 46.63 | 87 | 3.30 | 0.47 | 4.7 |
| 5/1/2015 14:42:31 | 50.85 | 46.95 | 115 | 3.88 | 0.46 | 6.3 |
| 5/1/2015 14:42:42 | 51.18 | 47.28 | 52 | 3.90 | 0.45 | 2.9 |
| 5/1/2015 14:42:48 | 51.51 | 47.61 | 43 | 3.48 | 0.46 | 2.4 |
| 5/1/2015 14:42:55 | 51.84 | 47.94 | 48 | 3.13 | 0.47 | 2.6 |
| 5/1/2015 14:43:03 | 52.17 | 48.27 | 46 | 3.10 | 0.47 | 2.5 |
| 5/1/2015 14:43:05 | 52.30 | 48.40 | 51 | 3.98 | 0.46 | 2.8 |

## L98 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:39:48

**End Date:**
5/1/2015 14:44:16

**Operator Note:**
'3.9 4.1 b Auto Complete'

**Northing:**
359,721.41

**Easting:**
242,130.84

**Tide (feet):**
3.90



## Hole: L99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 14:40:58 | 34.12 | 30.22 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:40:58 | 34.45 | 30.55 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/1/2015 14:40:59 | 34.78 | 30.88 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:40:59 | 35.11 | 31.21 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:40:59 | 35.43 | 31.53 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/1/2015 14:41:00 | 35.76 | 31.86 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:41:00 | 36.09 | 32.19 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:41:00 | 36.42 | 32.52 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:41:01 | 36.75 | 32.85 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:41:01 | 37.07 | 33.17 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/1/2015 14:41:01 | 37.40 | 33.50 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:41:02 | 37.73 | 33.83 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/1/2015 14:41:02 | 38.06 | 34.16 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/1/2015 14:41:03 | 38.39 | 34.49 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:41:03 | 38.71 | 34.81 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/1/2015 14:41:03 | 39.04 | 35.14 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:41:04 | 39.37 | 35.47 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:41:04 | 39.70 | 35.80 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 14:41:04 | 40.03 | 36.13 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:41:05 | 40.35 | 36.45 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:05 | 40.68 | 36.78 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:05 | 41.01 | 37.11 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:41:06 | 41.34 | 37.44 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:41:06 | 41.67 | 37.77 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 14:41:06 | 41.99 | 38.09 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 14:41:07 | 42.32 | 38.42 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/1/2015 14:41:07 | 42.65 | 38.75 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:41:07 | 42.98 | 39.08 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:08 | 43.31 | 39.41 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:08 | 43.64 | 39.74 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:08 | 43.96 | 40.06 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:09 | 44.29 | 40.39 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:09 | 44.62 | 40.72 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/1/2015 14:41:09 | 44.95 | 41.05 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:41:10 | 45.28 | 41.38 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:41:10 | 45.60 | 41.70 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:41:10 | 45.93 | 42.03 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:41:11 | 46.26 | 42.36 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:41:11 | 46.59 | 42.69 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 14:41:11 | 46.92 | 43.02 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:41:12 | 47.24 | 43.34 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 14:41:12 | 47.57 | 43.67 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:41:12 | 47.90 | 44.00 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/1/2015 14:41:12 | 48.23 | 44.33 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 14:41:13 | 48.56 | 44.66 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 14:41:13 | 48.88 | 44.98 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 14:41:13 | 49.21 | 45.31 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:14 | 49.54 | 45.64 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:15 | 49.87 | 45.97 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:15 | 50.20 | 46.30 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 14:41:22 | 50.53 | 46.63 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 14:41:23 | 50.85 | 46.95 | 82 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 14:41:24 | 51.18 | 47.28 | 166 | 1.14 | 0.29 | 9.1 |
| 5/1/2015 14:41:26 | 51.51 | 47.61 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 14:41:27 | 51.84 | 47.94 | 288 | 1.14 | 0.29 | 15.8 |
| 5/1/2015 14:41:28 | 52.17 | 48.27 | 323 | 1.14 | 0.29 | 17.6 |
| 5/1/2015 14:41:29 | 52.49 | 48.59 | 372 | 1.14 | 0.29 | 20.3 |
| 5/1/2015 14:41:30 | 52.82 | 48.92 | 384 | 1.14 | 0.29 | 21.0 |
| 5/1/2015 14:42:15 | 53.15 | 49.25 | 20 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 14:42:19 | 53.48 | 49.58 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 14:42:22 | 53.81 | 49.91 | 82 | 1.14 | 0.29 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 14:42:25 | 54.13 | 50.23 | 179 | 1.14 | 0.29 | 9.8 |
| 5/1/2015 | 14:42:28 | 54.46 | 50.56 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 | 14:42:30 | 54.79 | 50.89 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 | 14:42:33 | 55.12 | 51.22 | 142 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 | 14:43:06 | 55.45 | 51.55 | 46 | 1.14 | 0.29 | 2.5 |
| 5/1/2015 | 14:43:20 | 55.77 | 51.87 | 37 | 1.14 | 0.29 | 2.0 |
| 5/1/2015 | 14:43:22 | 56.10 | 52.20 | 140 | 1.14 | 0.29 | 7.7 |
| 5/1/2015 | 14:43:36 | 56.43 | 52.53 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 14:43:38 | 56.76 | 52.86 | 84 | 1.14 | 0.29 | 4.6 |
| 5/1/2015 | 14:43:39 | 57.09 | 53.19 | 220 | 1.14 | 0.29 | 12.0 |
| 5/1/2015 | 14:43:40 | 57.41 | 53.51 | 317 | 1.14 | 0.29 | 17.3 |
| 5/1/2015 | 14:43:42 | 57.74 | 53.84 | 238 | 1.14 | 0.29 | 13.0 |
| 5/1/2015 | 14:44:14 | 58.07 | 54.17 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 14:44:16 | 58.40 | 54.50 | 171 | 1.14 | 0.29 | 9.3 |
| 5/1/2015 | 14:44:18 | 58.73 | 54.83 | 184 | 1.14 | 0.29 | 10.1 |
| 5/1/2015 | 14:44:19 | 59.06 | 55.16 | 182 | 1.14 | 0.29 | 10.0 |
| 5/1/2015 | 14:44:20 | 59.13 | 55.23 | 181 | 1.14 | 0.29 | 9.9 |

## L99 - Summary

**Pattern Number:**
AreaL_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 14:39:59

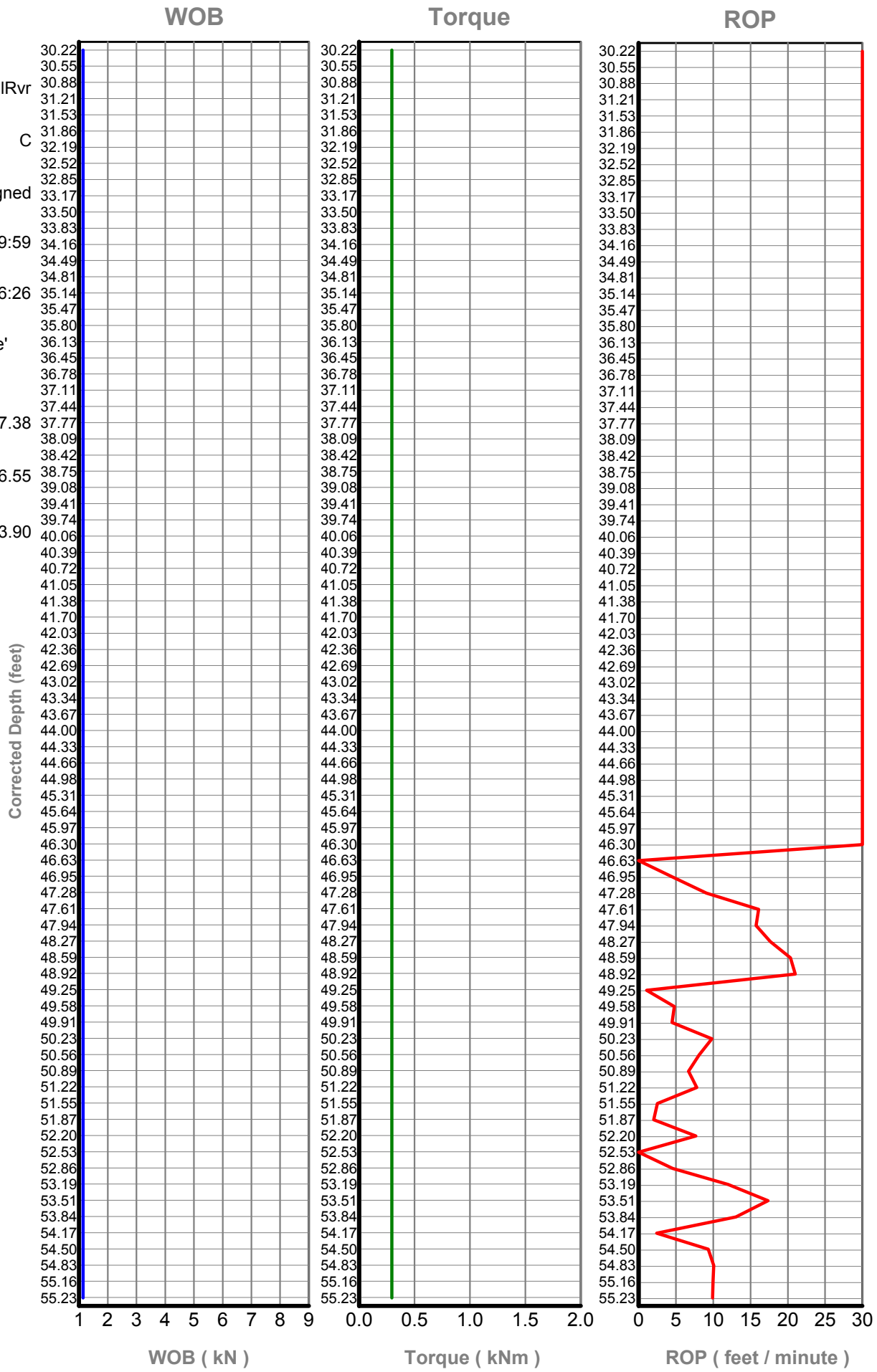
**End Date:**
5/1/2015 14:46:26

**Operator Note:**
'3.9 4.1 c Auto Complete'

**Northing:**
359,757.38

**Easting:**
242,196.55

**Tide (feet):**
3.90



## Hole: M1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:53:22 | 33.79 | 30.19 | 1,237 | 1.88 | 0.25 | 67.6 |
| 5/2/2015 3:53:22 | 34.12 | 30.52 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:22 | 34.45 | 30.85 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:22 | 34.78 | 31.18 | 1,280 | 1.89 | 0.25 | 70.0 |
| 5/2/2015 3:53:23 | 35.11 | 31.51 | 1,280 | 1.89 | 0.25 | 70.0 |
| 5/2/2015 3:53:23 | 35.43 | 31.83 | 1,266 | 1.90 | 0.25 | 69.2 |
| 5/2/2015 3:53:23 | 35.76 | 32.16 | 1,266 | 1.90 | 0.25 | 69.2 |
| 5/2/2015 3:53:23 | 36.09 | 32.49 | 1,270 | 1.88 | 0.25 | 69.4 |
| 5/2/2015 3:53:24 | 36.42 | 32.82 | 1,249 | 1.89 | 0.25 | 68.3 |
| 5/2/2015 3:53:24 | 36.75 | 33.15 | 1,249 | 1.89 | 0.25 | 68.3 |
| 5/2/2015 3:53:24 | 37.07 | 33.47 | 1,243 | 1.87 | 0.25 | 68.0 |
| 5/2/2015 3:53:25 | 37.40 | 33.80 | 1,243 | 1.87 | 0.25 | 68.0 |
| 5/2/2015 3:53:25 | 37.73 | 34.13 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:25 | 38.06 | 34.46 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:25 | 38.39 | 34.79 | 1,239 | 1.89 | 0.25 | 67.7 |
| 5/2/2015 3:53:26 | 38.71 | 35.11 | 1,239 | 1.89 | 0.25 | 67.7 |
| 5/2/2015 3:53:26 | 39.04 | 35.44 | 1,249 | 1.90 | 0.25 | 68.3 |
| 5/2/2015 3:53:26 | 39.37 | 35.77 | 1,246 | 1.89 | 0.25 | 68.1 |
| 5/2/2015 3:53:27 | 39.70 | 36.10 | 1,246 | 1.89 | 0.25 | 68.1 |
| 5/2/2015 3:53:27 | 40.03 | 36.43 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:27 | 40.35 | 36.75 | 1,243 | 1.89 | 0.25 | 68.0 |
| 5/2/2015 3:53:27 | 40.68 | 37.08 | 1,237 | 1.90 | 0.25 | 67.7 |
| 5/2/2015 3:53:28 | 41.01 | 37.41 | 1,237 | 1.90 | 0.25 | 67.7 |
| 5/2/2015 3:53:28 | 41.34 | 37.74 | 1,241 | 1.89 | 0.25 | 67.9 |
| 5/2/2015 3:53:28 | 41.67 | 38.07 | 1,241 | 1.89 | 0.25 | 67.9 |
| 5/2/2015 3:53:28 | 41.99 | 38.39 | 1,216 | 1.93 | 0.26 | 66.5 |
| 5/2/2015 3:53:29 | 42.32 | 38.72 | 1,222 | 1.63 | 0.30 | 66.8 |
| 5/2/2015 3:53:29 | 42.65 | 39.05 | 1,222 | 1.63 | 0.30 | 66.8 |
| 5/2/2015 3:53:30 | 42.98 | 39.38 | 993 | 1.24 | 0.26 | 54.3 |
| 5/2/2015 3:53:31 | 43.31 | 39.71 | 843 | 1.21 | 0.26 | 46.1 |
| 5/2/2015 3:53:31 | 43.64 | 40.04 | 732 | 1.21 | 0.26 | 40.0 |
| 5/2/2015 3:53:32 | 43.96 | 40.36 | 608 | 1.22 | 0.26 | 33.2 |
| 5/2/2015 3:53:32 | 44.29 | 40.69 | 517 | 1.23 | 0.26 | 28.3 |
| 5/2/2015 3:53:33 | 44.62 | 41.02 | 619 | 1.22 | 0.26 | 33.8 |
| 5/2/2015 3:53:34 | 44.95 | 41.35 | 623 | 1.22 | 0.27 | 34.1 |
| 5/2/2015 3:53:34 | 45.28 | 41.68 | 619 | 1.24 | 0.26 | 33.8 |
| 5/2/2015 3:53:35 | 45.60 | 42.00 | 609 | 1.19 | 0.22 | 33.3 |
| 5/2/2015 3:53:35 | 45.93 | 42.33 | 607 | 1.10 | 0.20 | 33.2 |
| 5/2/2015 3:53:38 | 46.26 | 42.66 | 199 | 1.11 | 0.21 | 10.9 |
| 5/2/2015 3:53:38 | 46.59 | 42.99 | 151 | 1.15 | 0.21 | 8.2 |
| 5/2/2015 3:53:39 | 46.92 | 43.32 | 207 | 1.12 | 0.20 | 11.3 |
| 5/2/2015 3:53:39 | 47.24 | 43.64 | 335 | 1.13 | 0.20 | 18.3 |
| 5/2/2015 3:53:40 | 47.57 | 43.97 | 464 | 1.13 | 0.21 | 25.4 |
| 5/2/2015 3:53:40 | 47.90 | 44.30 | 596 | 1.14 | 0.20 | 32.6 |
| 5/2/2015 3:53:41 | 48.23 | 44.63 | 645 | 1.11 | 0.20 | 35.3 |
| 5/2/2015 3:53:42 | 48.56 | 44.96 | 616 | 1.18 | 0.20 | 33.7 |
| 5/2/2015 3:54:09 | 48.88 | 45.28 | 108 | 1.66 | 1.77 | 5.9 |
| 5/2/2015 3:54:14 | 49.21 | 45.61 | 9 | 1.73 | 1.89 | 0.5 |
| 5/2/2015 3:54:14 | 49.54 | 45.94 | 100 | 1.74 | 1.14 | 5.5 |
| 5/2/2015 3:54:15 | 49.87 | 46.27 | 277 | 1.96 | 1.25 | 15.2 |
| 5/2/2015 3:54:43 | 50.20 | 46.60 | 0 | 1.09 | 1.11 | 0.0 |
| 5/2/2015 3:54:46 | 50.53 | 46.93 | 104 | 1.24 | 1.07 | 5.7 |
| 5/2/2015 3:54:48 | 50.85 | 47.25 | 145 | 1.09 | 0.91 | 7.9 |
| 5/2/2015 3:54:51 | 51.18 | 47.58 | 132 | 1.15 | 1.09 | 7.2 |
| 5/2/2015 3:54:54 | 51.51 | 47.91 | 122 | 1.05 | 1.02 | 6.7 |
| 5/2/2015 3:54:56 | 51.84 | 48.24 | 132 | 1.04 | 1.07 | 7.2 |
| 5/2/2015 3:54:59 | 52.17 | 48.57 | 116 | 1.07 | 1.21 | 6.3 |
| 5/2/2015 3:55:08 | 52.49 | 48.89 | 0 | 1.09 | 0.98 | 0.0 |
| 5/2/2015 3:55:12 | 52.82 | 49.22 | 103 | 1.07 | 1.43 | 5.6 |
| 5/2/2015 3:55:16 | 53.15 | 49.55 | 79 | 1.13 | 1.55 | 4.3 |
| 5/2/2015 3:56:44 | 53.48 | 49.88 | 44 | 1.00 | 1.17 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:56:48 | 53.81 | 50.21 | 90 | 1.14 | 0.92 | 4.9 |
| 5/2/2015 | 3:56:51 | 54.13 | 50.53 | 101 | 1.12 | 1.05 | 5.5 |
| 5/2/2015 | 3:56:54 | 54.46 | 50.86 | 119 | 1.11 | 0.94 | 6.5 |
| 5/2/2015 | 3:56:56 | 54.79 | 51.19 | 156 | 1.09 | 0.92 | 8.5 |
| 5/2/2015 | 3:56:58 | 55.12 | 51.52 | 188 | 1.07 | 0.96 | 10.3 |
| 5/2/2015 | 3:57:00 | 55.45 | 51.85 | 222 | 1.07 | 0.84 | 12.2 |
| 5/2/2015 | 3:57:01 | 55.77 | 52.17 | 272 | 1.09 | 0.81 | 14.9 |
| 5/2/2015 | 3:57:03 | 56.10 | 52.50 | 167 | 1.07 | 0.95 | 9.2 |
| 5/2/2015 | 3:57:06 | 56.43 | 52.83 | 147 | 1.10 | 0.93 | 8.1 |
| 5/2/2015 | 3:57:10 | 56.76 | 53.16 | 75 | 1.11 | 1.10 | 4.1 |
| 5/2/2015 | 3:57:16 | 57.09 | 53.49 | 58 | 1.16 | 1.08 | 3.2 |
| 5/2/2015 | 3:57:22 | 57.41 | 53.81 | 66 | 1.05 | 1.08 | 3.6 |
| 5/2/2015 | 3:57:28 | 57.74 | 54.14 | 52 | 1.09 | 1.09 | 2.8 |
| 5/2/2015 | 3:57:35 | 58.07 | 54.47 | 52 | 1.08 | 1.08 | 2.8 |
| 5/2/2015 | 3:57:39 | 58.24 | 54.64 | 54 | 0.64 | 1.14 | 3.0 |

## M1 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:50:38

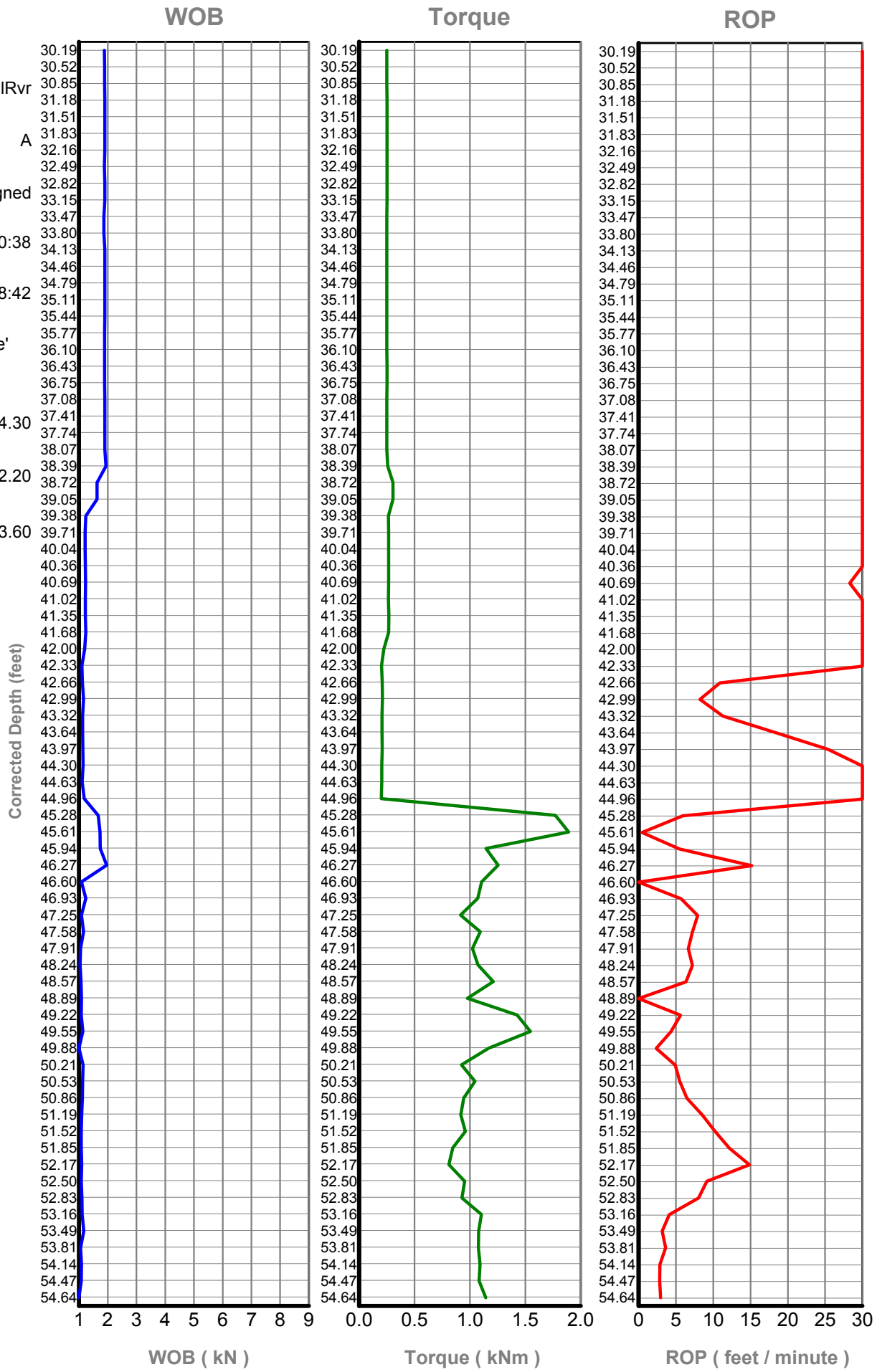
**End Date:**
5/2/2015 3:58:42

**Operator Note:**
'3.6 3.8 a Auto Complete'

**Northing:**
359,064.30

**Easting:**
239,902.20

**Tide (feet):**
3.60



## Hole: M10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:32:37 | 37.07 | 30.07 | 650 | 1.24 | 0.26 | 35.6 |
| 5/1/2015 23:32:38 | 37.40 | 30.40 | 588 | 1.24 | 0.26 | 32.1 |
| 5/1/2015 23:32:38 | 37.73 | 30.73 | 523 | 1.24 | 0.26 | 28.6 |
| 5/1/2015 23:32:39 | 38.06 | 31.06 | 477 | 1.24 | 0.26 | 26.1 |
| 5/1/2015 23:32:39 | 38.39 | 31.39 | 515 | 1.23 | 0.26 | 28.1 |
| 5/1/2015 23:32:40 | 38.71 | 31.71 | 621 | 1.24 | 0.26 | 34.0 |
| 5/1/2015 23:32:41 | 39.04 | 32.04 | 636 | 1.21 | 0.26 | 34.8 |
| 5/1/2015 23:32:41 | 39.37 | 32.37 | 645 | 1.24 | 0.26 | 35.3 |
| 5/1/2015 23:32:42 | 39.70 | 32.70 | 651 | 1.23 | 0.26 | 35.6 |
| 5/1/2015 23:32:42 | 40.03 | 33.03 | 647 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:32:43 | 40.35 | 33.35 | 645 | 1.26 | 0.26 | 35.3 |
| 5/1/2015 23:32:43 | 40.68 | 33.68 | 644 | 1.22 | 0.26 | 35.2 |
| 5/1/2015 23:32:44 | 41.01 | 34.01 | 651 | 1.23 | 0.26 | 35.6 |
| 5/1/2015 23:32:44 | 41.34 | 34.34 | 647 | 1.23 | 0.26 | 35.4 |
| 5/1/2015 23:32:45 | 41.67 | 34.67 | 651 | 1.23 | 0.26 | 35.6 |
| 5/1/2015 23:32:45 | 41.99 | 34.99 | 653 | 1.22 | 0.26 | 35.7 |
| 5/1/2015 23:32:46 | 42.32 | 35.32 | 657 | 1.23 | 0.26 | 35.9 |
| 5/1/2015 23:32:47 | 42.65 | 35.65 | 650 | 1.13 | 0.22 | 35.6 |
| 5/1/2015 23:32:47 | 42.98 | 35.98 | 656 | 1.12 | 0.20 | 35.9 |
| 5/1/2015 23:32:48 | 43.31 | 36.31 | 661 | 1.14 | 0.20 | 36.1 |
| 5/1/2015 23:32:48 | 43.64 | 36.64 | 676 | 1.15 | 0.22 | 37.0 |
| 5/1/2015 23:32:49 | 43.96 | 36.96 | 685 | 1.13 | 0.22 | 37.5 |
| 5/1/2015 23:32:49 | 44.29 | 37.29 | 694 | 1.12 | 0.20 | 37.9 |
| 5/1/2015 23:32:50 | 44.62 | 37.62 | 700 | 1.13 | 0.20 | 38.3 |
| 5/1/2015 23:32:50 | 44.95 | 37.95 | 704 | 1.11 | 0.20 | 38.5 |
| 5/1/2015 23:32:51 | 45.28 | 38.28 | 704 | 1.11 | 0.20 | 38.5 |
| 5/1/2015 23:32:51 | 45.60 | 38.60 | 699 | 1.13 | 0.20 | 38.2 |
| 5/1/2015 23:32:52 | 45.93 | 38.93 | 692 | 1.13 | 0.20 | 37.8 |
| 5/1/2015 23:32:52 | 46.26 | 39.26 | 689 | 1.13 | 0.20 | 37.7 |
| 5/1/2015 23:32:53 | 46.59 | 39.59 | 687 | 1.13 | 0.20 | 37.6 |
| 5/1/2015 23:32:53 | 46.92 | 39.92 | 680 | 1.13 | 0.22 | 37.2 |
| 5/1/2015 23:32:54 | 47.24 | 40.24 | 675 | 1.13 | 0.20 | 36.9 |
| 5/1/2015 23:32:54 | 47.57 | 40.57 | 676 | 1.14 | 0.20 | 37.0 |
| 5/1/2015 23:32:55 | 47.90 | 40.90 | 674 | 1.15 | 0.20 | 36.8 |
| 5/1/2015 23:32:55 | 48.23 | 41.23 | 657 | 1.13 | 0.20 | 35.9 |
| 5/1/2015 23:32:56 | 48.56 | 41.56 | 657 | 1.13 | 0.20 | 35.9 |
| 5/1/2015 23:32:57 | 48.88 | 41.88 | 654 | 1.13 | 0.20 | 35.8 |
| 5/1/2015 23:32:57 | 49.21 | 42.21 | 652 | 1.13 | 0.20 | 35.7 |
| 5/1/2015 23:32:58 | 49.54 | 42.54 | 640 | 1.13 | 0.20 | 35.0 |
| 5/1/2015 23:32:59 | 49.87 | 42.87 | 644 | 1.13 | 0.20 | 35.2 |
| 5/1/2015 23:32:59 | 50.20 | 43.20 | 639 | 1.13 | 0.20 | 34.9 |
| 5/1/2015 23:33:00 | 50.53 | 43.53 | 633 | 1.13 | 0.20 | 34.6 |
| 5/1/2015 23:33:00 | 50.85 | 43.85 | 633 | 1.12 | 0.20 | 34.6 |
| 5/1/2015 23:33:01 | 51.18 | 44.18 | 627 | 1.15 | 0.20 | 34.3 |
| 5/1/2015 23:33:20 | 51.51 | 44.51 | 41 | 1.18 | 1.12 | 2.3 |
| 5/1/2015 23:33:21 | 51.84 | 44.84 | 153 | 1.14 | 1.33 | 8.3 |
| 5/1/2015 23:33:24 | 52.17 | 45.17 | 153 | 1.17 | 1.39 | 8.4 |
| 5/1/2015 23:33:28 | 52.49 | 45.49 | 81 | 1.14 | 1.39 | 4.4 |
| 5/1/2015 23:33:32 | 52.82 | 45.82 | 97 | 1.09 | 1.18 | 5.3 |
| 5/1/2015 23:33:34 | 53.15 | 46.15 | 150 | 1.11 | 1.12 | 8.2 |
| 5/1/2015 23:33:37 | 53.48 | 46.48 | 133 | 1.11 | 1.08 | 7.3 |
| 5/1/2015 23:33:39 | 53.81 | 46.81 | 153 | 1.04 | 1.14 | 8.4 |
| 5/1/2015 23:33:42 | 54.13 | 47.13 | 113 | 1.08 | 1.14 | 6.2 |
| 5/1/2015 23:33:46 | 54.46 | 47.46 | 87 | 1.03 | 1.11 | 4.7 |
| 5/1/2015 23:33:51 | 54.79 | 47.79 | 87 | 1.08 | 1.06 | 4.8 |
| 5/1/2015 23:33:56 | 55.12 | 48.12 | 72 | 1.13 | 1.01 | 3.9 |
| 5/1/2015 23:34:03 | 55.45 | 48.45 | 51 | 1.13 | 1.00 | 2.8 |
| 5/1/2015 23:34:10 | 55.77 | 48.77 | 50 | 1.11 | 0.95 | 2.7 |
| 5/1/2015 23:34:18 | 56.10 | 49.10 | 49 | 1.07 | 1.01 | 2.7 |
| 5/1/2015 23:34:22 | 56.31 | 49.31 | 46 | 1.11 | 1.08 | 2.5 |

## M10 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:29:26

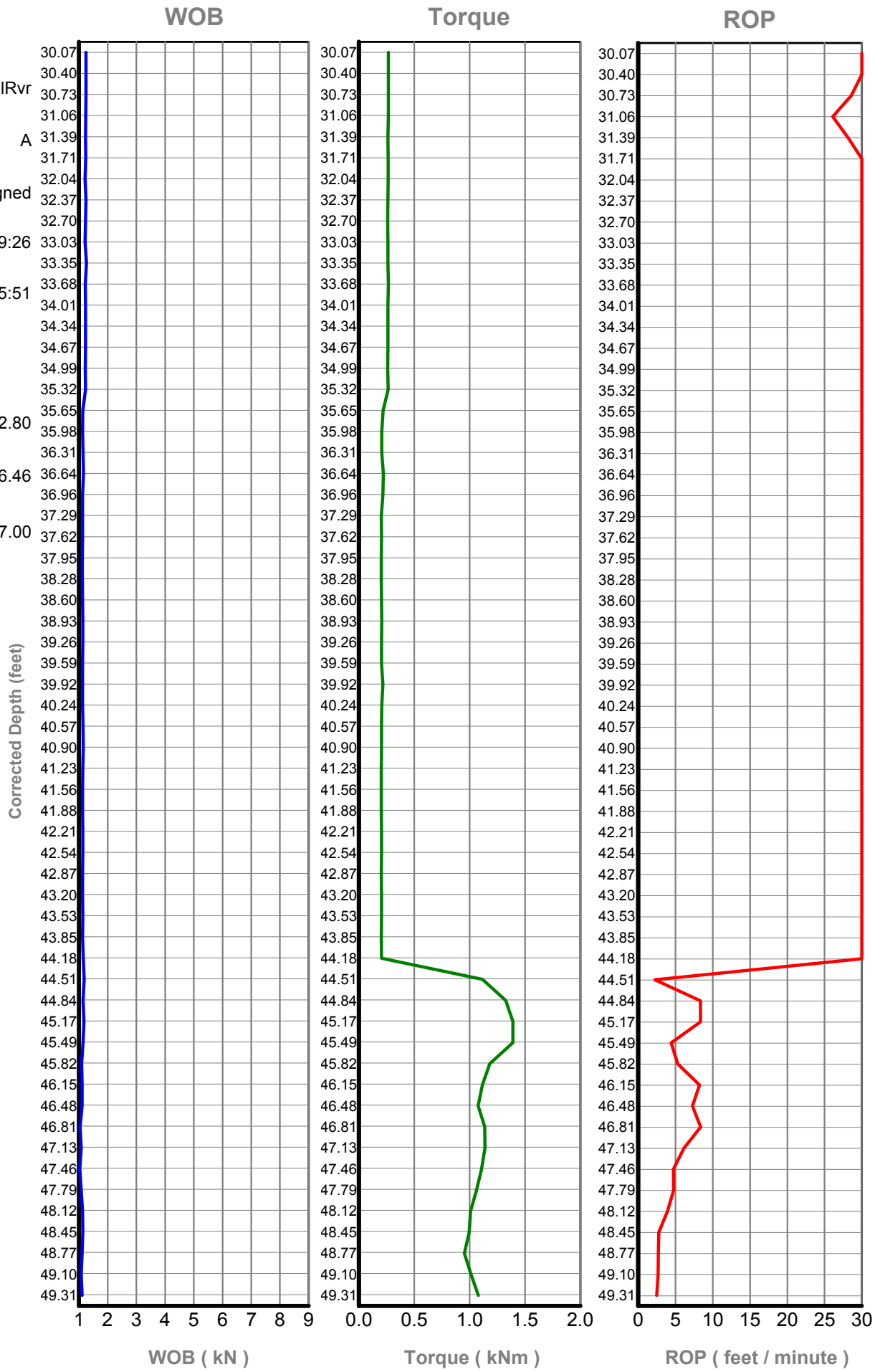
**End Date:**
5/1/2015 23:35:51

**Operator Note:**
'7 7 a Auto Complete'

**Northing:**
359,422.80

**Easting:**
240,466.46

**Tide (feet):**
7.00



## Hole: M100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:36:24 | 36.42 | 30.22 | 1,276 | 1.91 | 0.25 | 69.8 |
| 5/2/2015 1:36:24 | 36.75 | 30.55 | 1,276 | 1.91 | 0.24 | 69.8 |
| 5/2/2015 1:36:24 | 37.07 | 30.87 | 1,276 | 1.91 | 0.24 | 69.8 |
| 5/2/2015 1:36:24 | 37.40 | 31.20 | 1,286 | 1.89 | 0.24 | 70.3 |
| 5/2/2015 1:36:25 | 37.73 | 31.53 | 1,286 | 1.89 | 0.24 | 70.3 |
| 5/2/2015 1:36:25 | 38.06 | 31.86 | 1,274 | 1.89 | 0.25 | 69.7 |
| 5/2/2015 1:36:25 | 38.39 | 32.19 | 1,274 | 1.89 | 0.25 | 69.7 |
| 5/2/2015 1:36:25 | 38.71 | 32.51 | 1,270 | 1.87 | 0.25 | 69.4 |
| 5/2/2015 1:36:26 | 39.04 | 32.84 | 1,270 | 1.87 | 0.25 | 69.4 |
| 5/2/2015 1:36:26 | 39.37 | 33.17 | 1,252 | 1.88 | 0.26 | 68.5 |
| 5/2/2015 1:36:26 | 39.70 | 33.50 | 1,252 | 1.88 | 0.26 | 68.5 |
| 5/2/2015 1:36:26 | 40.03 | 33.83 | 1,252 | 1.89 | 0.24 | 68.5 |
| 5/2/2015 1:36:27 | 40.35 | 34.15 | 1,252 | 1.89 | 0.24 | 68.5 |
| 5/2/2015 1:36:27 | 40.68 | 34.48 | 1,288 | 1.87 | 0.24 | 70.4 |
| 5/2/2015 1:36:28 | 41.01 | 34.81 | 1,278 | 1.43 | 0.26 | 69.9 |
| 5/2/2015 1:36:28 | 41.34 | 35.14 | 1,278 | 1.43 | 0.26 | 69.9 |
| 5/2/2015 1:36:28 | 41.67 | 35.47 | 1,216 | 1.43 | 0.26 | 66.5 |
| 5/2/2015 1:36:29 | 41.99 | 35.79 | 1,082 | 1.24 | 0.25 | 59.2 |
| 5/2/2015 1:36:30 | 42.32 | 36.12 | 958 | 1.21 | 0.26 | 52.4 |
| 5/2/2015 1:36:30 | 42.65 | 36.45 | 826 | 1.22 | 0.26 | 45.1 |
| 5/2/2015 1:36:31 | 42.98 | 36.78 | 706 | 1.23 | 0.26 | 38.6 |
| 5/2/2015 1:36:31 | 43.31 | 37.11 | 645 | 1.21 | 0.26 | 35.2 |
| 5/2/2015 1:36:32 | 43.64 | 37.44 | 645 | 1.22 | 0.26 | 35.3 |
| 5/2/2015 1:36:32 | 43.96 | 37.76 | 645 | 1.21 | 0.26 | 35.3 |
| 5/2/2015 1:36:33 | 44.29 | 38.09 | 672 | 1.24 | 0.26 | 36.7 |
| 5/2/2015 1:36:33 | 44.62 | 38.42 | 669 | 1.22 | 0.26 | 36.6 |
| 5/2/2015 1:36:34 | 44.95 | 38.75 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 1:36:34 | 45.28 | 39.08 | 653 | 1.22 | 0.26 | 35.7 |
| 5/2/2015 1:36:35 | 45.60 | 39.40 | 653 | 1.22 | 0.26 | 35.7 |
| 5/2/2015 1:36:35 | 45.93 | 39.73 | 671 | 1.22 | 0.26 | 36.7 |
| 5/2/2015 1:36:36 | 46.26 | 40.06 | 663 | 1.22 | 0.26 | 36.2 |
| 5/2/2015 1:36:37 | 46.59 | 40.39 | 578 | 1.22 | 0.26 | 31.6 |
| 5/2/2015 1:36:38 | 46.92 | 40.72 | 574 | 1.22 | 0.26 | 31.4 |
| 5/2/2015 1:36:38 | 47.24 | 41.04 | 554 | 1.26 | 0.26 | 30.3 |
| 5/2/2015 1:36:39 | 47.57 | 41.37 | 554 | 1.22 | 0.26 | 30.3 |
| 5/2/2015 1:36:39 | 47.90 | 41.70 | 549 | 1.21 | 0.26 | 30.0 |
| 5/2/2015 1:36:40 | 48.23 | 42.03 | 552 | 1.21 | 0.26 | 30.2 |
| 5/2/2015 1:36:40 | 48.56 | 42.36 | 552 | 1.18 | 0.26 | 30.2 |
| 5/2/2015 1:36:41 | 48.88 | 42.68 | 637 | 1.22 | 0.26 | 34.8 |
| 5/2/2015 1:36:41 | 49.21 | 43.01 | 643 | 1.22 | 0.26 | 35.2 |
| 5/2/2015 1:36:42 | 49.54 | 43.34 | 661 | 1.22 | 0.26 | 36.1 |
| 5/2/2015 1:36:42 | 49.87 | 43.67 | 650 | 1.24 | 0.26 | 35.5 |
| 5/2/2015 1:36:43 | 50.20 | 44.00 | 650 | 1.22 | 0.26 | 35.5 |
| 5/2/2015 1:36:43 | 50.53 | 44.33 | 650 | 1.22 | 0.26 | 35.5 |
| 5/2/2015 1:36:44 | 50.85 | 44.65 | 647 | 1.21 | 0.26 | 35.4 |
| 5/2/2015 1:36:44 | 51.18 | 44.98 | 647 | 1.23 | 0.26 | 35.4 |
| 5/2/2015 1:36:45 | 51.51 | 45.31 | 639 | 1.22 | 0.26 | 34.9 |
| 5/2/2015 1:36:45 | 51.84 | 45.64 | 655 | 1.05 | 0.20 | 35.8 |
| 5/2/2015 1:36:46 | 52.17 | 45.97 | 646 | 1.12 | 0.20 | 35.3 |
| 5/2/2015 1:36:47 | 52.49 | 46.29 | 645 | 1.09 | 0.20 | 35.3 |
| 5/2/2015 1:36:47 | 52.82 | 46.62 | 645 | 1.09 | 0.20 | 35.3 |
| 5/2/2015 1:36:48 | 53.15 | 46.95 | 660 | 1.11 | 0.20 | 36.1 |
| 5/2/2015 1:36:49 | 53.48 | 47.28 | 655 | 1.09 | 0.20 | 35.8 |
| 5/2/2015 1:36:49 | 53.81 | 47.61 | 666 | 1.24 | 0.26 | 36.4 |
| 5/2/2015 1:36:50 | 54.13 | 47.93 | 673 | 1.11 | 0.20 | 36.8 |
| 5/2/2015 1:36:50 | 54.46 | 48.26 | 672 | 1.12 | 0.20 | 36.7 |
| 5/2/2015 1:36:51 | 54.79 | 48.59 | 639 | 1.11 | 0.20 | 35.0 |
| 5/2/2015 1:36:51 | 55.12 | 48.92 | 613 | 1.13 | 0.21 | 33.5 |
| 5/2/2015 1:36:52 | 55.45 | 49.25 | 551 | 1.19 | 0.20 | 30.1 |
| 5/2/2015 1:36:53 | 55.77 | 49.57 | 547 | 1.09 | 0.20 | 29.9 |
| 5/2/2015 1:36:53 | 56.10 | 49.90 | 560 | 1.10 | 0.20 | 30.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:36:54 | 56.43 | 50.23 | 568 | 1.13 | 0.19 | 31.1 |
| 5/2/2015 | 1:37:15 | 56.76 | 50.56 | 79 | 1.05 | 1.42 | 4.3 |
| 5/2/2015 | 1:37:25 | 57.09 | 50.89 | 26 | 1.09 | 1.01 | 1.4 |
| 5/2/2015 | 1:37:38 | 57.41 | 51.21 | 27 | 1.11 | 1.01 | 1.5 |
| 5/2/2015 | 1:37:51 | 57.74 | 51.54 | 26 | 1.13 | 0.88 | 1.4 |
| 5/2/2015 | 1:37:56 | 57.88 | 51.68 | 26 | 1.14 | 0.88 | 1.4 |

## M100 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:28:59

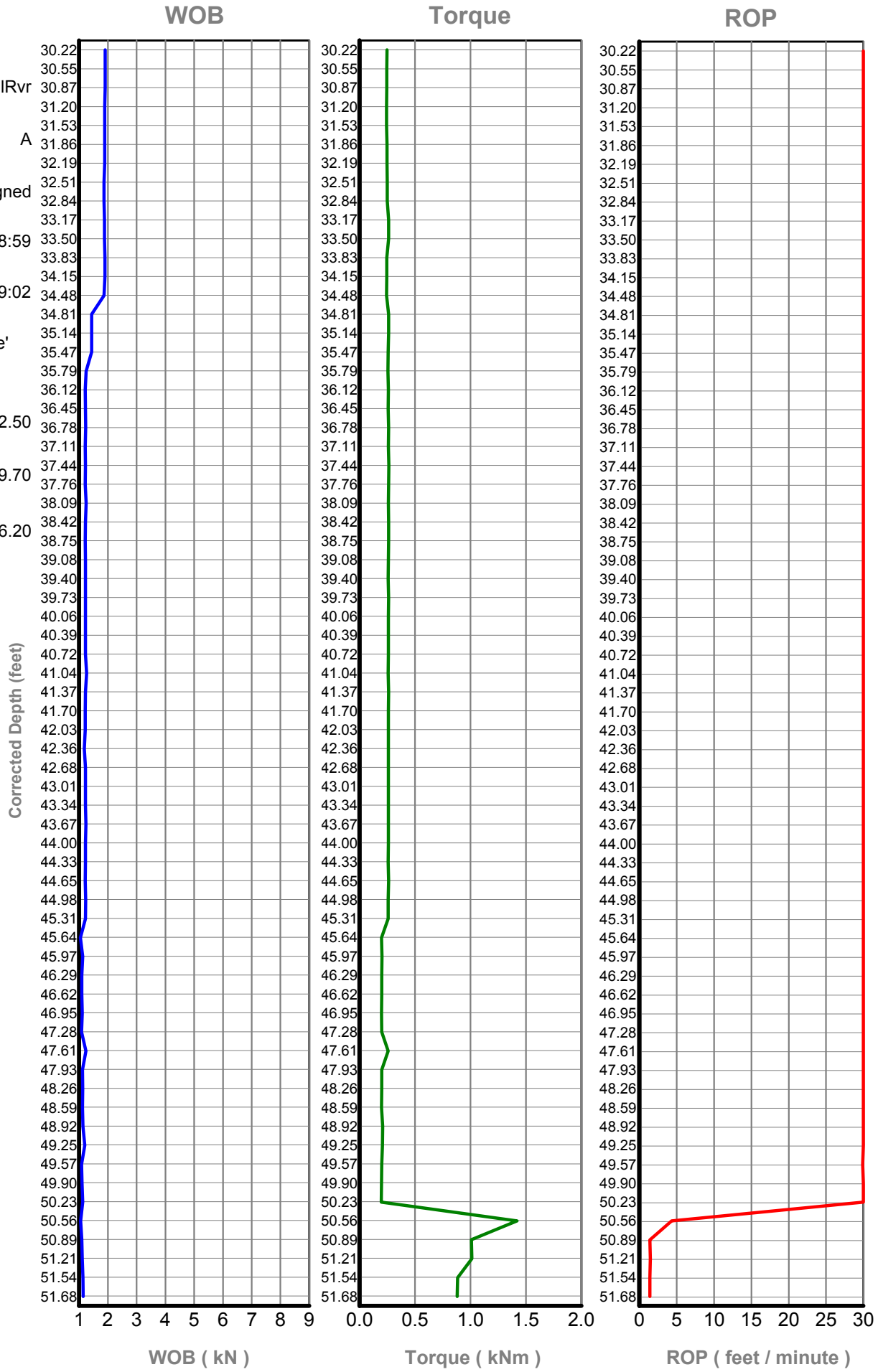
**End Date:**
5/2/2015 1:39:02

**Operator Note:**
'6.2 6.3 a Auto Complete'

**Northing:**
358,782.50

**Easting:**
240,589.70

**Tide (feet):**
6.20



## Hole: M101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:37:05 | 36.42 | 30.32 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 1:37:06 | 36.75 | 30.65 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 1:37:06 | 37.07 | 30.97 | 1,133 | 0.34 | 0.37 | 62.0 |
| 5/2/2015 1:37:07 | 37.40 | 31.30 | 1,133 | 0.34 | 0.37 | 62.0 |
| 5/2/2015 1:37:07 | 37.73 | 31.63 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/2/2015 1:37:07 | 38.06 | 31.96 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/2/2015 1:37:08 | 38.39 | 32.29 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/2/2015 1:37:08 | 38.71 | 32.61 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/2/2015 1:37:08 | 39.04 | 32.94 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/2/2015 1:37:08 | 39.37 | 33.27 | 1,142 | 0.33 | 0.38 | 62.4 |
| 5/2/2015 1:37:09 | 39.70 | 33.60 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 1:37:09 | 40.03 | 33.93 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 1:37:09 | 40.35 | 34.25 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 1:37:10 | 40.68 | 34.58 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 1:37:10 | 41.01 | 34.91 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 1:37:10 | 41.34 | 35.24 | 1,147 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 1:37:11 | 41.67 | 35.57 | 1,147 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 1:37:11 | 41.99 | 35.89 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/2/2015 1:37:11 | 42.32 | 36.22 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/2/2015 1:37:11 | 42.65 | 36.55 | 1,134 | 0.32 | 0.37 | 62.0 |
| 5/2/2015 1:37:12 | 42.98 | 36.88 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 1:37:12 | 43.31 | 37.21 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 1:37:12 | 43.64 | 37.54 | 1,143 | 0.33 | 0.38 | 62.5 |
| 5/2/2015 1:37:13 | 43.96 | 37.86 | 1,143 | 0.33 | 0.38 | 62.5 |
| 5/2/2015 1:37:13 | 44.29 | 38.19 | 1,146 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 1:37:13 | 44.62 | 38.52 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:14 | 44.95 | 38.85 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:14 | 45.28 | 39.18 | 1,155 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 1:37:14 | 45.60 | 39.50 | 1,155 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 1:37:14 | 45.93 | 39.83 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/2/2015 1:37:15 | 46.26 | 40.16 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 1:37:16 | 46.59 | 40.49 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 1:37:15 | 46.92 | 40.82 | 1,126 | 0.33 | 0.37 | 61.6 |
| 5/2/2015 1:37:16 | 47.24 | 41.14 | 1,126 | 0.33 | 0.37 | 61.6 |
| 5/2/2015 1:37:16 | 47.57 | 41.47 | 1,146 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 1:37:17 | 47.90 | 41.80 | 1,134 | 0.33 | 0.37 | 62.0 |
| 5/2/2015 1:37:17 | 48.23 | 42.13 | 1,134 | 0.33 | 0.37 | 62.0 |
| 5/2/2015 1:37:17 | 48.56 | 42.46 | 1,144 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 1:37:18 | 48.88 | 42.78 | 1,144 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 1:37:18 | 49.21 | 43.11 | 1,150 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 1:37:18 | 49.54 | 43.44 | 1,150 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 1:37:18 | 49.87 | 43.77 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 1:37:19 | 50.20 | 44.10 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:19 | 50.53 | 44.43 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:19 | 50.85 | 44.75 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 1:37:20 | 51.18 | 45.08 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 1:37:20 | 51.51 | 45.41 | 1,144 | 0.32 | 0.38 | 62.6 |
| 5/2/2015 1:37:20 | 51.84 | 45.74 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 1:37:21 | 52.17 | 46.07 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 1:37:21 | 52.49 | 46.39 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:21 | 52.82 | 46.72 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:37:21 | 53.15 | 47.05 | 1,135 | 0.32 | 0.37 | 62.1 |
| 5/2/2015 1:37:22 | 53.48 | 47.38 | 1,139 | 0.34 | 0.38 | 62.3 |
| 5/2/2015 1:37:22 | 53.81 | 47.71 | 1,139 | 0.34 | 0.38 | 62.3 |
| 5/2/2015 1:37:22 | 54.13 | 48.03 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 1:37:23 | 54.46 | 48.36 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 1:37:23 | 54.79 | 48.69 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 1:37:23 | 55.12 | 49.02 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 1:37:24 | 55.45 | 49.35 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 1:37:24 | 55.77 | 49.67 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/2/2015 1:37:24 | 56.10 | 50.00 | 1,137 | 0.32 | 0.38 | 62.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:37:25 | 56.43 | 50.33 | 1,137 | 0.32 | 0.38 | 62.2 |
| 5/2/2015 | 1:37:25 | 56.76 | 50.66 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/2/2015 | 1:37:25 | 57.09 | 50.99 | 1,123 | 0.32 | 0.38 | 61.4 |
| 5/2/2015 | 1:37:25 | 57.41 | 51.31 | 1,102 | 0.32 | 0.39 | 60.3 |
| 5/2/2015 | 1:37:26 | 57.74 | 51.64 | 1,079 | 0.31 | 0.40 | 59.0 |
| 5/2/2015 | 1:37:27 | 58.07 | 51.97 | 1,039 | 0.29 | 0.46 | 56.8 |
| 5/2/2015 | 1:37:31 | 58.40 | 52.30 | 76 | 2.50 | 0.40 | 4.2 |
| 5/2/2015 | 1:37:31 | 58.73 | 52.63 | 216 | 4.79 | 0.46 | 11.8 |
| 5/2/2015 | 1:37:37 | 59.06 | 52.96 | 86 | 3.57 | 0.46 | 4.7 |
| 5/2/2015 | 1:37:40 | 59.38 | 53.28 | 118 | 4.07 | 0.46 | 6.5 |
| 5/2/2015 | 1:37:42 | 59.71 | 53.61 | 197 | 3.47 | 0.46 | 10.7 |
| 5/2/2015 | 1:37:44 | 60.04 | 53.94 | 127 | 3.19 | 0.46 | 6.9 |
| 5/2/2015 | 1:37:51 | 60.37 | 54.27 | 51 | 3.31 | 0.46 | 2.8 |
| 5/2/2015 | 1:37:59 | 60.70 | 54.60 | 39 | 2.92 | 0.47 | 2.1 |
| 5/2/2015 | 1:38:08 | 61.02 | 54.92 | 39 | 3.18 | 0.46 | 2.1 |
| 5/2/2015 | 1:38:12 | 61.17 | 55.07 | 37 | 2.96 | 0.46 | 2.0 |

## M101 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:35:34

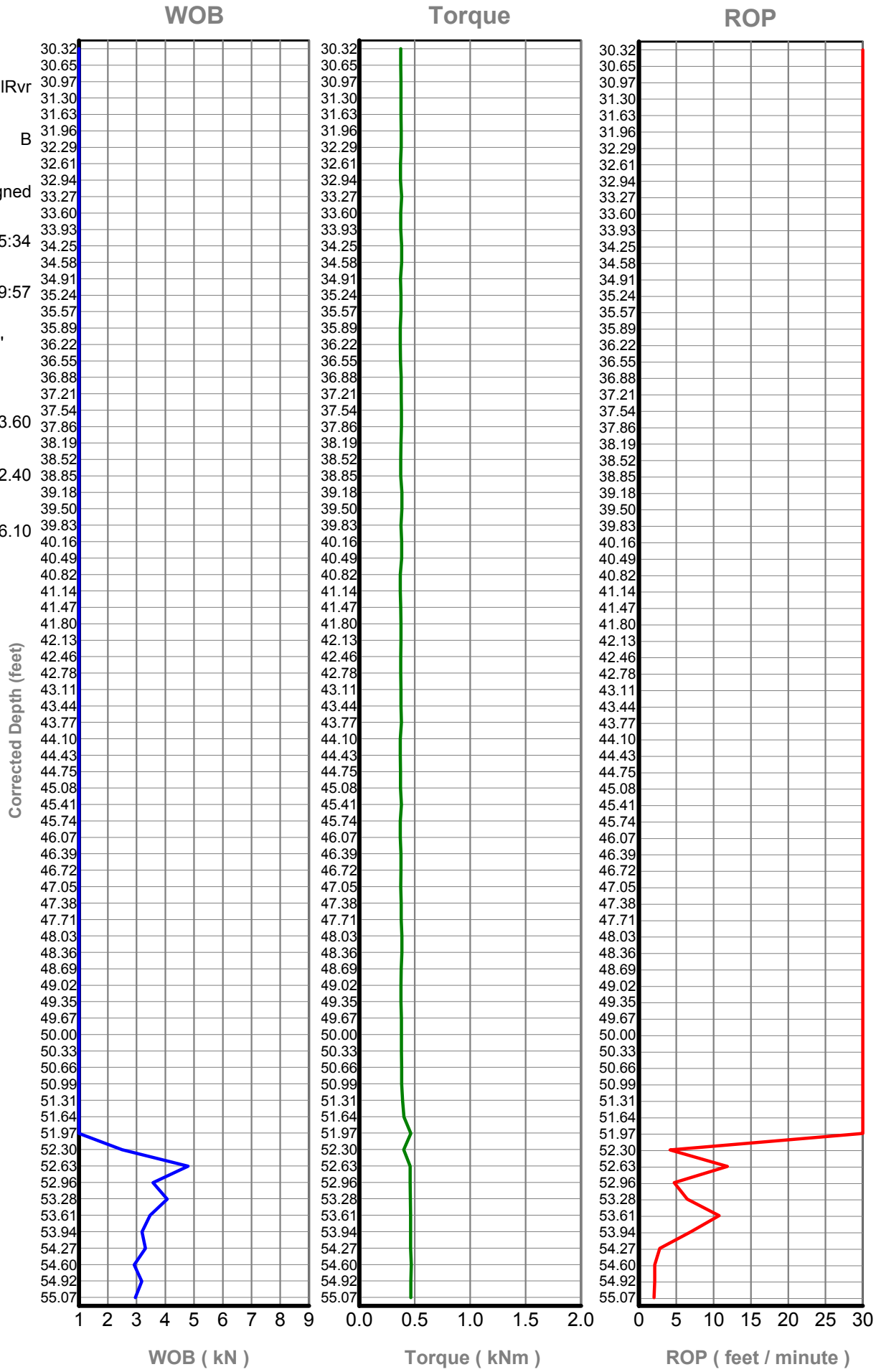
**End Date:**
5/2/2015 1:39:57

**Operator Note:**
'6.1 6.3b Auto Complete'

**Northing:**
358,823.60

**Easting:**
240,652.40

**Tide (feet):**
6.10



## Hole: M102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:35:27 | 36.42 | 30.32 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:35:28 | 36.75 | 30.65 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:35:28 | 37.07 | 30.97 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:35:28 | 37.40 | 31.30 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:35:29 | 37.73 | 31.63 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:35:29 | 38.06 | 31.96 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:35:29 | 38.39 | 32.29 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:35:30 | 38.71 | 32.61 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:35:30 | 39.04 | 32.94 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:35:31 | 39.37 | 33.27 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:35:31 | 39.70 | 33.60 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:35:31 | 40.03 | 33.93 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:35:32 | 40.35 | 34.25 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:35:32 | 40.68 | 34.58 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:35:32 | 41.01 | 34.91 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:33 | 41.34 | 35.24 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:35:33 | 41.67 | 35.57 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:35:33 | 41.99 | 35.89 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:34 | 42.32 | 36.22 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:35:34 | 42.65 | 36.55 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:35:34 | 42.98 | 36.88 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 1:35:35 | 43.31 | 37.21 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:35 | 43.64 | 37.54 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:36 | 43.96 | 37.86 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:36 | 44.29 | 38.19 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:36 | 44.62 | 38.52 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 1:35:37 | 44.95 | 38.85 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 1:35:37 | 45.28 | 39.18 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 1:35:37 | 45.60 | 39.50 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:38 | 45.93 | 39.83 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:38 | 46.26 | 40.16 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:35:38 | 46.59 | 40.49 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:39 | 46.92 | 40.82 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:39 | 47.24 | 41.14 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:39 | 47.57 | 41.47 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:40 | 47.90 | 41.80 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:40 | 48.23 | 42.13 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 1:35:40 | 48.56 | 42.46 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 1:35:41 | 48.88 | 42.78 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 1:35:41 | 49.21 | 43.11 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 1:35:42 | 49.54 | 43.44 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:42 | 49.87 | 43.77 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:42 | 50.20 | 44.10 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:43 | 50.53 | 44.43 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:43 | 50.85 | 44.75 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 1:35:43 | 51.18 | 45.08 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 1:35:44 | 51.51 | 45.41 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 1:35:44 | 51.84 | 45.74 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 1:35:45 | 52.17 | 46.07 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 1:35:45 | 52.49 | 46.39 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:35:45 | 52.82 | 46.72 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:46 | 53.15 | 47.05 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:46 | 53.48 | 47.38 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:46 | 53.81 | 47.71 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:47 | 54.13 | 48.03 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:35:47 | 54.46 | 48.36 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:35:47 | 54.79 | 48.69 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:35:48 | 55.12 | 49.02 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:35:48 | 55.45 | 49.35 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 1:35:48 | 55.77 | 49.67 | 963 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 1:35:49 | 56.10 | 50.00 | 913 | 1.14 | 0.29 | 49.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:35:49 | 56.43 | 50.33 | 858 | 1.14 | 0.29 | 46.9 |
| 5/2/2015 | 1:35:50 | 56.76 | 50.66 | 800 | 1.14 | 0.29 | 43.7 |
| 5/2/2015 | 1:35:50 | 57.09 | 50.99 | 747 | 1.14 | 0.29 | 40.8 |
| 5/2/2015 | 1:35:51 | 57.41 | 51.31 | 707 | 1.14 | 0.29 | 38.7 |
| 5/2/2015 | 1:35:51 | 57.74 | 51.64 | 677 | 1.14 | 0.29 | 37.0 |
| 5/2/2015 | 1:35:52 | 58.07 | 51.97 | 625 | 1.14 | 0.29 | 34.2 |
| 5/2/2015 | 1:35:53 | 58.40 | 52.30 | 598 | 1.14 | 0.29 | 32.7 |
| 5/2/2015 | 1:35:54 | 58.73 | 52.63 | 579 | 1.14 | 0.29 | 31.6 |
| 5/2/2015 | 1:35:54 | 59.06 | 52.96 | 558 | 1.14 | 0.29 | 30.5 |
| 5/2/2015 | 1:35:55 | 59.38 | 53.28 | 526 | 1.14 | 0.29 | 28.8 |
| 5/2/2015 | 1:35:56 | 59.71 | 53.61 | 515 | 1.14 | 0.29 | 28.1 |
| 5/2/2015 | 1:35:57 | 60.04 | 53.94 | 494 | 1.14 | 0.29 | 27.0 |
| 5/2/2015 | 1:36:22 | 60.37 | 54.27 | 52 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 1:36:29 | 60.70 | 54.60 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 1:36:37 | 61.02 | 54.92 | 47 | 1.14 | 0.29 | 2.6 |
| 5/2/2015 | 1:36:42 | 61.28 | 55.18 | 64 | 1.14 | 0.29 | 3.5 |

## M102 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:34:20

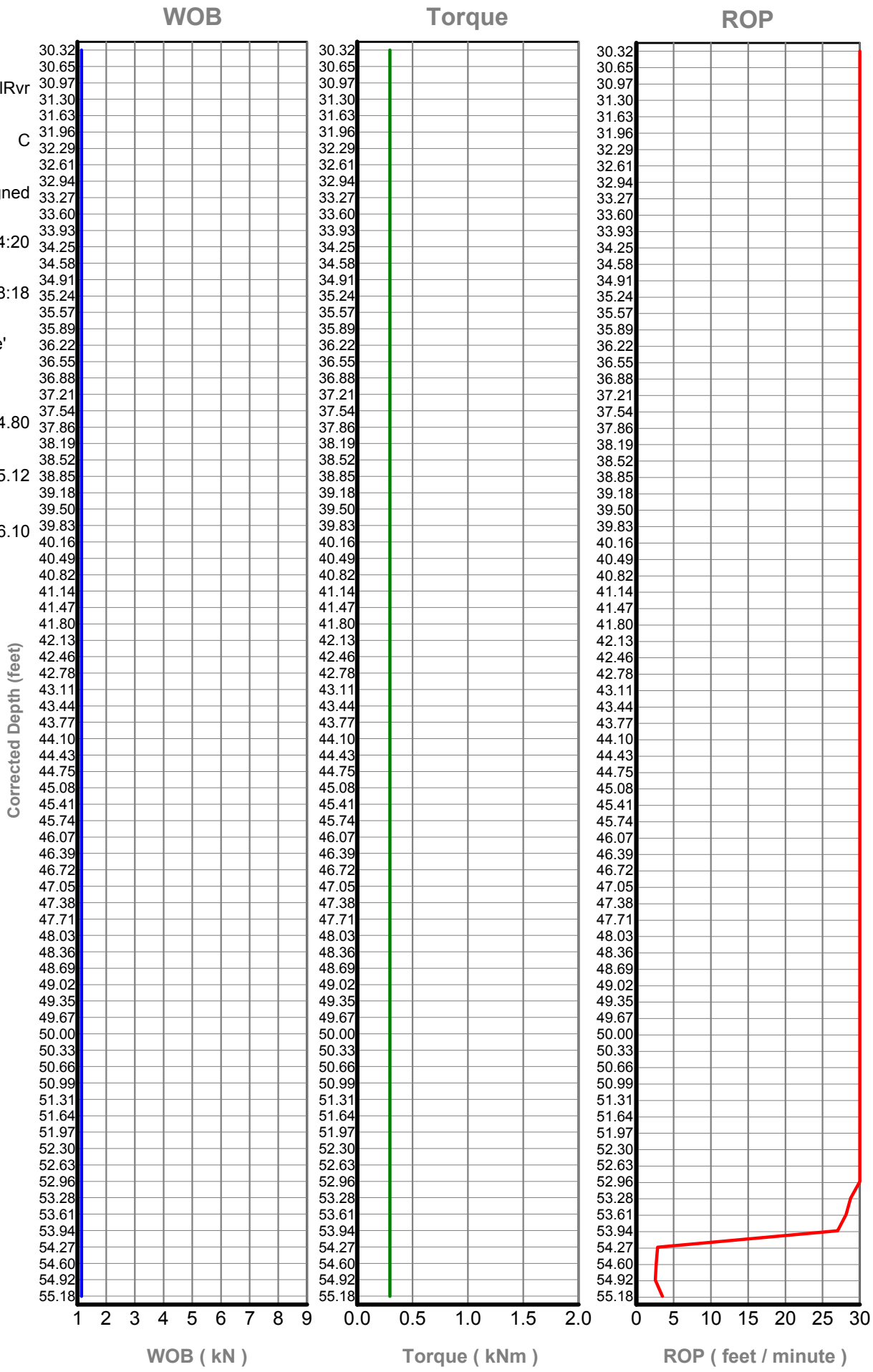
**End Date:**
5/2/2015 1:38:18

**Operator Note:**
'6.1 6.3 c Auto Complete'

**Northing:**
358,864.80

**Easting:**
240,715.12

**Tide (feet):**
6.10



## Hole: M11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:32:53 | 37.07 | 30.07 | 1,128 | 0.32 | 0.38 | 61.7 |
| 5/1/2015 23:32:53 | 37.40 | 30.40 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:32:53 | 37.73 | 30.73 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 23:32:54 | 38.06 | 31.06 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 23:32:54 | 38.39 | 31.39 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 23:32:54 | 38.71 | 31.71 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 23:32:54 | 39.04 | 32.04 | 1,135 | 0.32 | 0.37 | 62.1 |
| 5/1/2015 23:32:55 | 39.37 | 32.37 | 1,148 | 0.28 | 0.38 | 62.8 |
| 5/1/2015 23:32:55 | 39.70 | 32.70 | 1,148 | 0.28 | 0.38 | 62.8 |
| 5/1/2015 23:32:55 | 40.03 | 33.03 | 1,150 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 23:32:56 | 40.35 | 33.35 | 1,150 | 0.31 | 0.38 | 62.9 |
| 5/1/2015 23:32:56 | 40.68 | 33.68 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/1/2015 23:32:56 | 41.01 | 34.01 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/1/2015 23:32:57 | 41.34 | 34.34 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/1/2015 23:32:57 | 41.67 | 34.67 | 1,147 | 0.32 | 0.38 | 62.7 |
| 5/1/2015 23:32:57 | 41.99 | 34.99 | 1,147 | 0.32 | 0.38 | 62.7 |
| 5/1/2015 23:32:57 | 42.32 | 35.32 | 1,147 | 0.32 | 0.37 | 62.7 |
| 5/1/2015 23:32:58 | 42.65 | 35.65 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:32:58 | 42.98 | 35.98 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:32:58 | 43.31 | 36.31 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:32:59 | 43.64 | 36.64 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:32:59 | 43.96 | 36.96 | 1,153 | 0.32 | 0.38 | 63.0 |
| 5/1/2015 23:32:59 | 44.29 | 37.29 | 1,143 | 0.32 | 0.37 | 62.5 |
| 5/1/2015 23:33:00 | 44.62 | 37.62 | 1,143 | 0.32 | 0.37 | 62.5 |
| 5/1/2015 23:33:00 | 44.95 | 37.95 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 23:33:00 | 45.28 | 38.28 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/1/2015 23:33:00 | 45.60 | 38.60 | 1,140 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 23:33:01 | 45.93 | 38.93 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:33:01 | 46.26 | 39.26 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:33:02 | 46.59 | 39.59 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:33:02 | 46.92 | 39.92 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:33:02 | 47.24 | 40.24 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/1/2015 23:33:03 | 47.57 | 40.57 | 1,134 | 0.33 | 0.38 | 62.0 |
| 5/1/2015 23:33:03 | 47.90 | 40.90 | 1,134 | 0.33 | 0.38 | 62.0 |
| 5/1/2015 23:33:03 | 48.23 | 41.23 | 1,100 | 0.33 | 0.38 | 60.2 |
| 5/1/2015 23:33:04 | 48.56 | 41.56 | 1,100 | 0.32 | 0.38 | 60.2 |
| 5/1/2015 23:33:04 | 48.88 | 41.88 | 1,100 | 0.32 | 0.38 | 60.2 |
| 5/1/2015 23:33:04 | 49.21 | 42.21 | 1,114 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 23:33:05 | 49.54 | 42.54 | 1,114 | 0.32 | 0.38 | 60.9 |
| 5/1/2015 23:33:05 | 49.87 | 42.87 | 1,108 | 0.33 | 0.38 | 60.6 |
| 5/1/2015 23:33:05 | 50.20 | 43.20 | 1,075 | 0.32 | 0.38 | 58.8 |
| 5/1/2015 23:33:06 | 50.53 | 43.53 | 1,075 | 0.32 | 0.38 | 58.8 |
| 5/1/2015 23:33:06 | 50.85 | 43.85 | 1,080 | 0.31 | 0.39 | 59.1 |
| 5/1/2015 23:33:06 | 51.18 | 44.18 | 1,064 | 0.29 | 0.42 | 58.2 |
| 5/1/2015 23:33:11 | 51.51 | 44.51 | 0 | 3.63 | 0.45 | 0.0 |
| 5/1/2015 23:33:14 | 51.84 | 44.84 | 104 | 4.28 | 0.45 | 5.7 |
| 5/1/2015 23:33:20 | 52.17 | 45.17 | 33 | 3.81 | 0.46 | 1.8 |
| 5/1/2015 23:33:25 | 52.49 | 45.49 | 98 | 3.43 | 0.46 | 5.3 |
| 5/1/2015 23:33:27 | 52.82 | 45.82 | 119 | 4.11 | 0.46 | 6.5 |
| 5/1/2015 23:33:31 | 53.15 | 46.15 | 87 | 3.64 | 0.46 | 4.8 |
| 5/1/2015 23:33:35 | 53.48 | 46.48 | 102 | 4.04 | 0.47 | 5.6 |
| 5/1/2015 23:33:39 | 53.81 | 46.81 | 104 | 3.67 | 0.47 | 5.7 |
| 5/1/2015 23:33:42 | 54.13 | 47.13 | 104 | 3.98 | 0.46 | 5.7 |
| 5/1/2015 23:33:46 | 54.46 | 47.46 | 104 | 3.76 | 0.46 | 5.7 |
| 5/1/2015 23:33:49 | 54.79 | 47.79 | 107 | 3.94 | 0.46 | 5.9 |
| 5/1/2015 23:33:52 | 55.12 | 48.12 | 101 | 3.63 | 0.46 | 5.5 |
| 5/1/2015 23:33:56 | 55.45 | 48.45 | 101 | 4.05 | 0.47 | 5.5 |
| 5/1/2015 23:34:00 | 55.77 | 48.77 | 106 | 3.67 | 0.46 | 5.8 |
| 5/1/2015 23:34:03 | 56.10 | 49.10 | 107 | 3.72 | 0.47 | 5.8 |
| 5/1/2015 23:34:06 | 56.43 | 49.43 | 115 | 3.94 | 0.46 | 6.3 |
| 5/1/2015 23:34:10 | 56.76 | 49.76 | 93 | 3.81 | 0.46 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:34:14 | 57.09 | 50.09 | 84 | 3.18 | 0.46 | 4.6 |
| 5/1/2015 | 23:34:18 | 57.41 | 50.41 | 89 | 3.70 | 0.47 | 4.9 |
| 5/1/2015 | 23:34:22 | 57.74 | 50.74 | 95 | 2.96 | 0.47 | 5.2 |
| 5/1/2015 | 23:34:26 | 58.07 | 51.07 | 90 | 3.49 | 0.46 | 4.9 |
| 5/1/2015 | 23:34:29 | 58.40 | 51.40 | 127 | 3.64 | 0.46 | 7.0 |
| 5/1/2015 | 23:34:32 | 58.73 | 51.73 | 100 | 3.55 | 0.47 | 5.5 |
| 5/1/2015 | 23:34:37 | 59.06 | 52.06 | 75 | 3.41 | 0.47 | 4.1 |
| 5/1/2015 | 23:34:43 | 59.38 | 52.38 | 63 | 3.30 | 0.47 | 3.5 |
| 5/1/2015 | 23:34:51 | 59.71 | 52.71 | 52 | 3.09 | 0.47 | 2.9 |
| 5/1/2015 | 23:34:55 | 60.04 | 53.04 | 84 | 4.42 | 0.46 | 4.6 |
| 5/1/2015 | 23:35:00 | 60.37 | 53.37 | 87 | 4.11 | 0.46 | 4.7 |
| 5/1/2015 | 23:35:05 | 60.70 | 53.70 | 58 | 3.39 | 0.47 | 3.2 |
| 5/1/2015 | 23:35:13 | 61.02 | 54.02 | 46 | 2.92 | 0.47 | 2.5 |
| 5/1/2015 | 23:35:20 | 61.35 | 54.35 | 52 | 3.12 | 0.46 | 2.8 |
| 5/1/2015 | 23:35:23 | 61.61 | 54.61 | 72 | 3.88 | 0.46 | 4.0 |

## M11 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:31:21

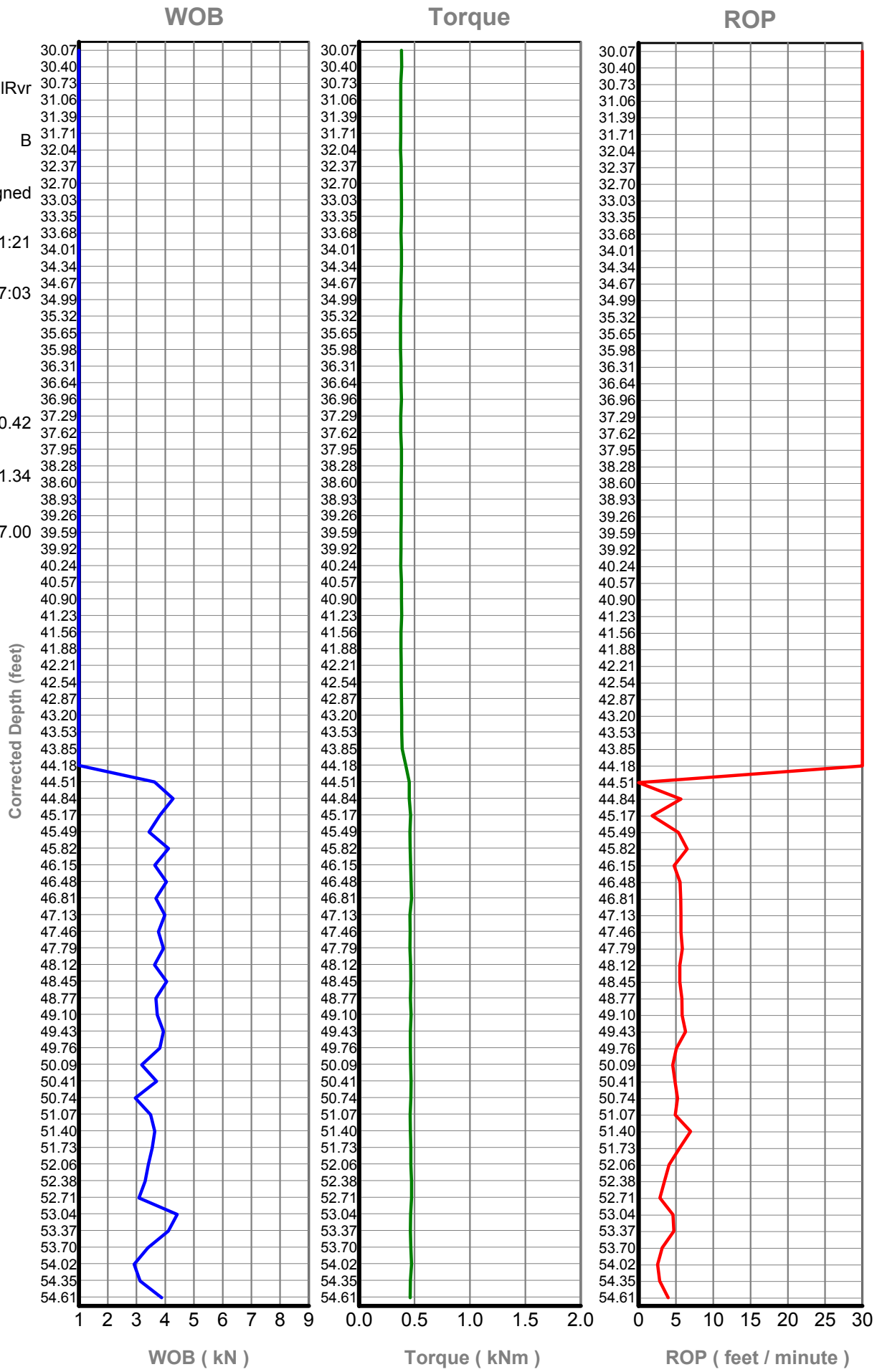
**End Date:**
5/1/2015 23:37:03

**Operator Note:**
'7 7.0b Auto Complete'

**Northing:**
359,460.42

**Easting:**
240,531.34

**Tide (feet):**
7.00



## Hole: M12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:30:47 | 37.07 | 30.07 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:47 | 37.40 | 30.40 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:48 | 37.73 | 30.73 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 23:30:48 | 38.06 | 31.06 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 23:30:48 | 38.39 | 31.39 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 23:30:49 | 38.71 | 31.71 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:49 | 39.04 | 32.04 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:49 | 39.37 | 32.37 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 23:30:50 | 39.70 | 32.70 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 23:30:50 | 40.03 | 33.03 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 23:30:50 | 40.35 | 33.35 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 23:30:51 | 40.68 | 33.68 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 23:30:51 | 41.01 | 34.01 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:52 | 41.34 | 34.34 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 23:30:52 | 41.67 | 34.67 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 23:30:52 | 41.99 | 34.99 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 23:30:53 | 42.32 | 35.32 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:53 | 42.65 | 35.65 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:53 | 42.98 | 35.98 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:53 | 43.31 | 36.31 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:54 | 43.64 | 36.64 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:54 | 43.96 | 36.96 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 23:30:55 | 44.29 | 37.29 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:30:55 | 44.62 | 37.62 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:30:55 | 44.95 | 37.95 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:30:56 | 45.28 | 38.28 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 23:30:56 | 45.60 | 38.60 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 23:30:56 | 45.93 | 38.93 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 23:30:57 | 46.26 | 39.26 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 23:30:57 | 46.59 | 39.59 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 23:30:57 | 46.92 | 39.92 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 23:30:58 | 47.24 | 40.24 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 23:30:58 | 47.57 | 40.57 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 23:30:58 | 47.90 | 40.90 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 23:30:59 | 48.23 | 41.23 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 23:30:59 | 48.56 | 41.56 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 23:30:59 | 48.88 | 41.88 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:31:07 | 49.21 | 42.21 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 23:31:11 | 49.54 | 42.54 | 149 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 23:31:19 | 49.87 | 42.87 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 23:31:29 | 50.20 | 43.20 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 23:31:40 | 50.53 | 43.53 | 31 | 1.14 | 0.29 | 1.7 |
| 5/1/2015 23:31:48 | 50.73 | 43.73 | 30 | 1.14 | 0.29 | 1.7 |

## M12 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:29:39

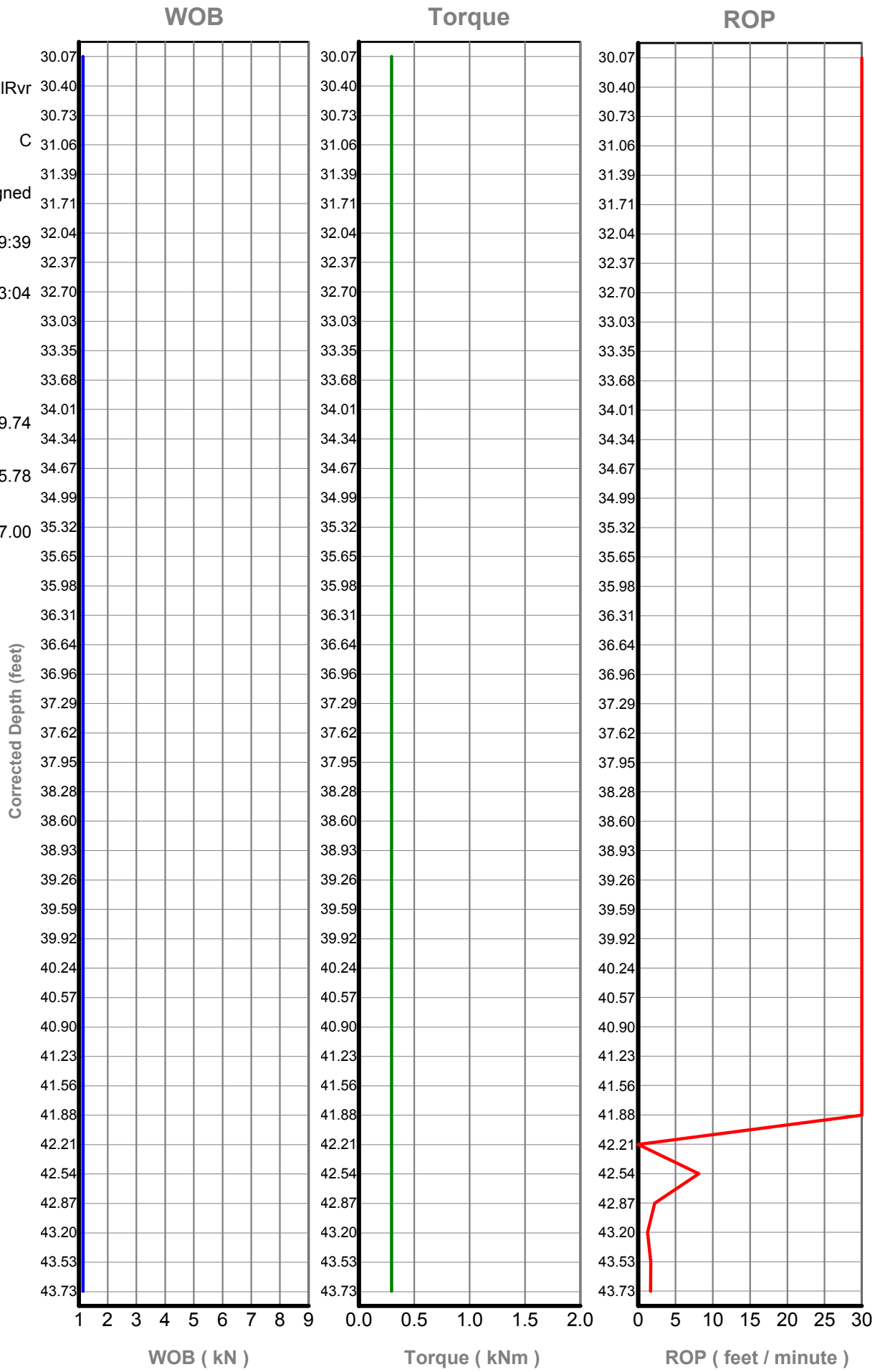
**End Date:**
5/1/2015 23:33:04

**Operator Note:**
'7 7.0 c Auto Complete'

**Northing:**
359,499.74

**Easting:**
240,595.78

**Tide (feet):**
7.00



## Hole: M13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:09:33 | 33.79 | 30.29 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:33 | 34.12 | 30.62 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:33 | 34.45 | 30.95 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:34 | 34.78 | 31.28 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:34 | 35.11 | 31.61 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:34 | 35.43 | 31.93 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:35 | 35.76 | 32.26 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:35 | 36.09 | 32.59 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 4:09:35 | 36.42 | 32.92 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 4:09:35 | 36.75 | 33.25 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:36 | 37.07 | 33.57 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:36 | 37.40 | 33.90 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:36 | 37.73 | 34.23 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:37 | 38.06 | 34.56 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:37 | 38.39 | 34.89 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:37 | 38.71 | 35.21 | 1,157 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:09:38 | 39.04 | 35.54 | 1,157 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:09:38 | 39.37 | 35.87 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:38 | 39.70 | 36.20 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:09:38 | 40.03 | 36.53 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:39 | 40.35 | 36.85 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:40 | 40.68 | 37.18 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:39 | 41.01 | 37.51 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 4:09:40 | 41.34 | 37.84 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 4:09:40 | 41.67 | 38.17 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:41 | 41.99 | 38.49 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 4:09:41 | 42.32 | 38.82 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 4:09:41 | 42.65 | 39.15 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:42 | 42.98 | 39.48 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:42 | 43.31 | 39.81 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:42 | 43.64 | 40.14 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:43 | 43.96 | 40.46 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 4:09:43 | 44.29 | 40.79 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:43 | 44.62 | 41.12 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:43 | 44.95 | 41.45 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:44 | 45.28 | 41.78 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:44 | 45.60 | 42.10 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:09:44 | 45.93 | 42.43 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 4:09:45 | 46.26 | 42.76 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 4:09:45 | 46.59 | 43.09 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 4:09:45 | 46.92 | 43.42 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 4:09:46 | 47.24 | 43.74 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 4:09:46 | 47.57 | 44.07 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 4:09:46 | 47.90 | 44.40 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 4:09:46 | 48.23 | 44.73 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 4:09:47 | 48.56 | 45.06 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 4:09:47 | 48.88 | 45.38 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 4:09:47 | 49.21 | 45.71 | 1,131 | 0.54 | 0.17 | 61.8 |
| 5/2/2015 4:09:48 | 49.54 | 46.04 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/2/2015 4:09:48 | 49.87 | 46.37 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/2/2015 4:09:48 | 50.20 | 46.70 | 1,128 | 0.54 | 0.17 | 61.7 |
| 5/2/2015 4:09:49 | 50.53 | 47.03 | 1,128 | 0.54 | 0.17 | 61.7 |
| 5/2/2015 4:09:49 | 50.85 | 47.35 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/2/2015 4:09:49 | 51.18 | 47.68 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/2/2015 4:09:50 | 51.51 | 48.01 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/2/2015 4:09:50 | 51.84 | 48.34 | 1,117 | 0.54 | 0.17 | 61.1 |
| 5/2/2015 4:09:50 | 52.17 | 48.67 | 1,117 | 0.54 | 0.17 | 61.1 |
| 5/2/2015 4:09:50 | 52.49 | 48.99 | 1,108 | 0.54 | 0.17 | 60.6 |
| 5/2/2015 4:09:51 | 52.82 | 49.32 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 4:09:52 | 53.15 | 49.65 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 4:09:59 | 53.48 | 49.98 | 0 | 0.54 | 0.17 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:10:01 | 53.81 | 50.31 | 121 | 0.54 | 0.17 | 6.6 |
| 5/2/2015 | 4:10:04 | 54.13 | 50.63 | 171 | 0.54 | 0.17 | 9.4 |
| 5/2/2015 | 4:10:09 | 54.46 | 50.96 | 47 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 | 4:10:14 | 54.79 | 51.29 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 4:10:18 | 55.12 | 51.62 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 | 4:10:21 | 55.45 | 51.95 | 91 | 0.54 | 0.17 | 5.0 |
| 5/2/2015 | 4:10:26 | 55.77 | 52.27 | 79 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 | 4:10:31 | 56.10 | 52.60 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 4:11:42 | 56.43 | 52.93 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 | 4:11:51 | 56.76 | 53.26 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 4:11:57 | 57.09 | 53.59 | 43 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 4:14:43 | 57.41 | 53.91 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 4:14:49 | 57.74 | 54.24 | 67 | 0.54 | 0.17 | 3.7 |
| 5/2/2015 | 4:14:55 | 58.07 | 54.57 | 52 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 | 4:15:01 | 58.30 | 54.80 | 47 | 0.54 | 0.17 | 2.5 |

## M13 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:58:45

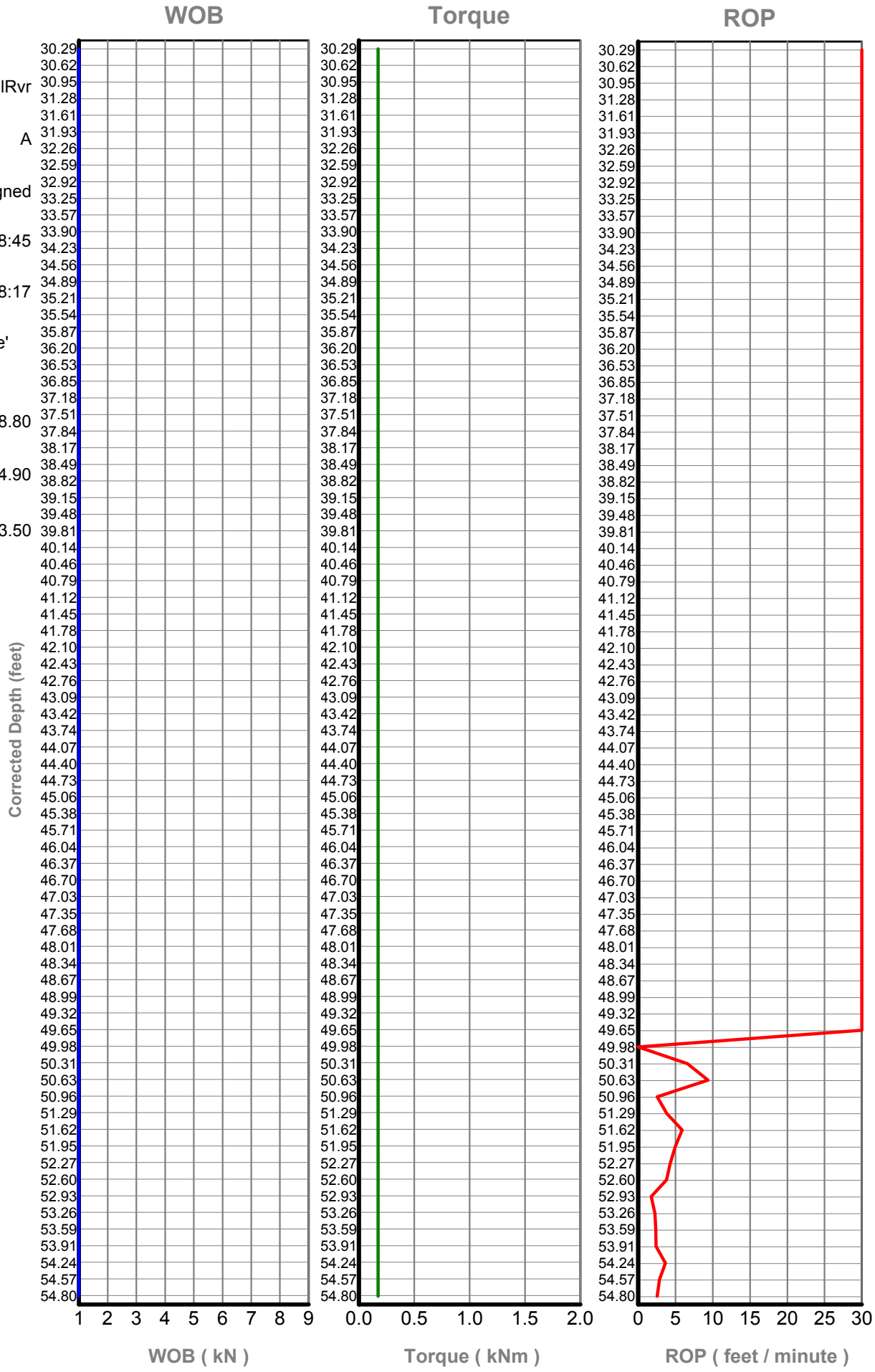
**End Date:**
5/2/2015 4:18:17

**Operator Note:**
'3.5 3.5 a Auto Complete'

**Northing:**
358,988.80

**Easting:**
239,924.90

**Tide (feet):**
3.50



## Hole: M14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:09:19 | 33.79 | 30.29 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/2/2015 4:09:20 | 34.12 | 30.62 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/2/2015 4:09:20 | 34.45 | 30.95 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:20 | 34.78 | 31.28 | 1,113 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 4:09:21 | 35.11 | 31.61 | 1,113 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 4:09:21 | 35.43 | 31.93 | 1,113 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 4:09:21 | 35.76 | 32.26 | 1,106 | 0.33 | 0.38 | 60.5 |
| 5/2/2015 4:09:22 | 36.09 | 32.59 | 1,106 | 0.33 | 0.38 | 60.5 |
| 5/2/2015 4:09:22 | 36.42 | 32.92 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/2/2015 4:09:22 | 36.75 | 33.25 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/2/2015 4:09:22 | 37.07 | 33.57 | 1,107 | 0.33 | 0.38 | 60.5 |
| 5/2/2015 4:09:23 | 37.40 | 33.90 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:23 | 37.73 | 34.23 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:23 | 38.06 | 34.56 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:24 | 38.39 | 34.89 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:24 | 38.71 | 35.21 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/2/2015 4:09:24 | 39.04 | 35.54 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/2/2015 4:09:25 | 39.37 | 35.87 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/2/2015 4:09:25 | 39.70 | 36.20 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/2/2015 4:09:25 | 40.03 | 36.53 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 4:09:26 | 40.35 | 36.85 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 4:09:26 | 40.68 | 37.18 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:27 | 41.01 | 37.51 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:27 | 41.34 | 37.84 | 1,122 | 0.33 | 0.38 | 61.4 |
| 5/2/2015 4:09:27 | 41.67 | 38.17 | 1,116 | 0.33 | 0.37 | 61.0 |
| 5/2/2015 4:09:28 | 41.99 | 38.49 | 1,116 | 0.33 | 0.37 | 61.0 |
| 5/2/2015 4:09:28 | 42.32 | 38.82 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:28 | 42.65 | 39.15 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:28 | 42.98 | 39.48 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/2/2015 4:09:29 | 43.31 | 39.81 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:29 | 43.64 | 40.14 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:29 | 43.96 | 40.46 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/2/2015 4:09:30 | 44.29 | 40.79 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/2/2015 4:09:30 | 44.62 | 41.12 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/2/2015 4:09:30 | 44.95 | 41.45 | 1,127 | 0.33 | 0.39 | 61.6 |
| 5/2/2015 4:09:31 | 45.28 | 41.78 | 1,127 | 0.33 | 0.39 | 61.6 |
| 5/2/2015 4:09:31 | 45.60 | 42.10 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:31 | 45.93 | 42.43 | 1,121 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:32 | 46.26 | 42.76 | 1,121 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:32 | 46.59 | 43.09 | 1,118 | 0.33 | 0.37 | 61.1 |
| 5/2/2015 4:09:32 | 46.92 | 43.42 | 1,118 | 0.33 | 0.37 | 61.1 |
| 5/2/2015 4:09:32 | 47.24 | 43.74 | 1,127 | 0.33 | 0.38 | 61.6 |
| 5/2/2015 4:09:33 | 47.57 | 44.07 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:33 | 47.90 | 44.40 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:33 | 48.23 | 44.73 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/2/2015 4:09:34 | 48.56 | 45.06 | 1,118 | 0.33 | 0.38 | 61.1 |
| 5/2/2015 4:09:34 | 48.88 | 45.38 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/2/2015 4:09:34 | 49.21 | 45.71 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:35 | 49.54 | 46.04 | 1,119 | 0.33 | 0.38 | 61.2 |
| 5/2/2015 4:09:35 | 49.87 | 46.37 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/2/2015 4:09:35 | 50.20 | 46.70 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:36 | 50.53 | 47.03 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 4:09:36 | 50.85 | 47.35 | 1,104 | 0.29 | 0.38 | 60.4 |
| 5/2/2015 4:09:36 | 51.18 | 47.68 | 1,104 | 0.29 | 0.38 | 60.4 |
| 5/2/2015 4:09:37 | 51.51 | 48.01 | 1,101 | 0.33 | 0.38 | 60.2 |
| 5/2/2015 4:09:37 | 51.84 | 48.34 | 1,090 | 0.33 | 0.39 | 59.6 |
| 5/2/2015 4:09:38 | 52.17 | 48.67 | 1,090 | 0.33 | 0.39 | 59.6 |
| 5/2/2015 4:09:38 | 52.49 | 48.99 | 1,081 | 0.33 | 0.39 | 59.1 |
| 5/2/2015 4:09:38 | 52.82 | 49.32 | 1,070 | 0.33 | 0.39 | 58.5 |
| 5/2/2015 4:09:39 | 53.15 | 49.65 | 1,070 | 0.33 | 0.39 | 58.5 |
| 5/2/2015 4:09:39 | 53.48 | 49.98 | 1,032 | 0.33 | 0.39 | 56.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:09:39 | 53.81 | 50.31 | 1,032 | 0.34 | 0.39 | 56.4 |
| 5/2/2015 | 4:09:40 | 54.13 | 50.63 | 1,032 | 0.34 | 0.39 | 56.4 |
| 5/2/2015 | 4:09:40 | 54.46 | 50.96 | 1,028 | 0.32 | 0.40 | 56.2 |
| 5/2/2015 | 4:09:40 | 54.79 | 51.29 | 1,014 | 0.33 | 0.39 | 55.4 |
| 5/2/2015 | 4:09:41 | 55.12 | 51.62 | 1,014 | 0.33 | 0.39 | 55.4 |
| 5/2/2015 | 4:09:41 | 55.45 | 51.95 | 990 | 0.33 | 0.40 | 54.1 |
| 5/2/2015 | 4:09:47 | 55.77 | 52.27 | 6 | 2.89 | 0.45 | 0.3 |
| 5/2/2015 | 4:09:50 | 56.10 | 52.60 | 97 | 3.28 | 0.46 | 5.3 |
| 5/2/2015 | 4:09:55 | 56.43 | 52.93 | 9 | 3.18 | 0.47 | 0.5 |
| 5/2/2015 | 4:10:01 | 56.76 | 53.26 | 62 | 3.39 | 0.47 | 3.4 |
| 5/2/2015 | 4:10:06 | 57.09 | 53.59 | 82 | 3.38 | 0.46 | 4.5 |
| 5/2/2015 | 4:10:11 | 57.41 | 53.91 | 70 | 3.30 | 0.46 | 3.8 |
| 5/2/2015 | 4:10:14 | 57.74 | 54.24 | 92 | 3.73 | 0.46 | 5.1 |
| 5/2/2015 | 4:10:17 | 58.07 | 54.57 | 109 | 3.75 | 0.46 | 5.9 |
| 5/2/2015 | 4:10:21 | 58.40 | 54.90 | 115 | 3.73 | 0.46 | 6.3 |
| 5/2/2015 | 4:10:22 | 58.48 | 54.98 | 107 | 4.10 | 0.47 | 5.9 |

## M14 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:07:48

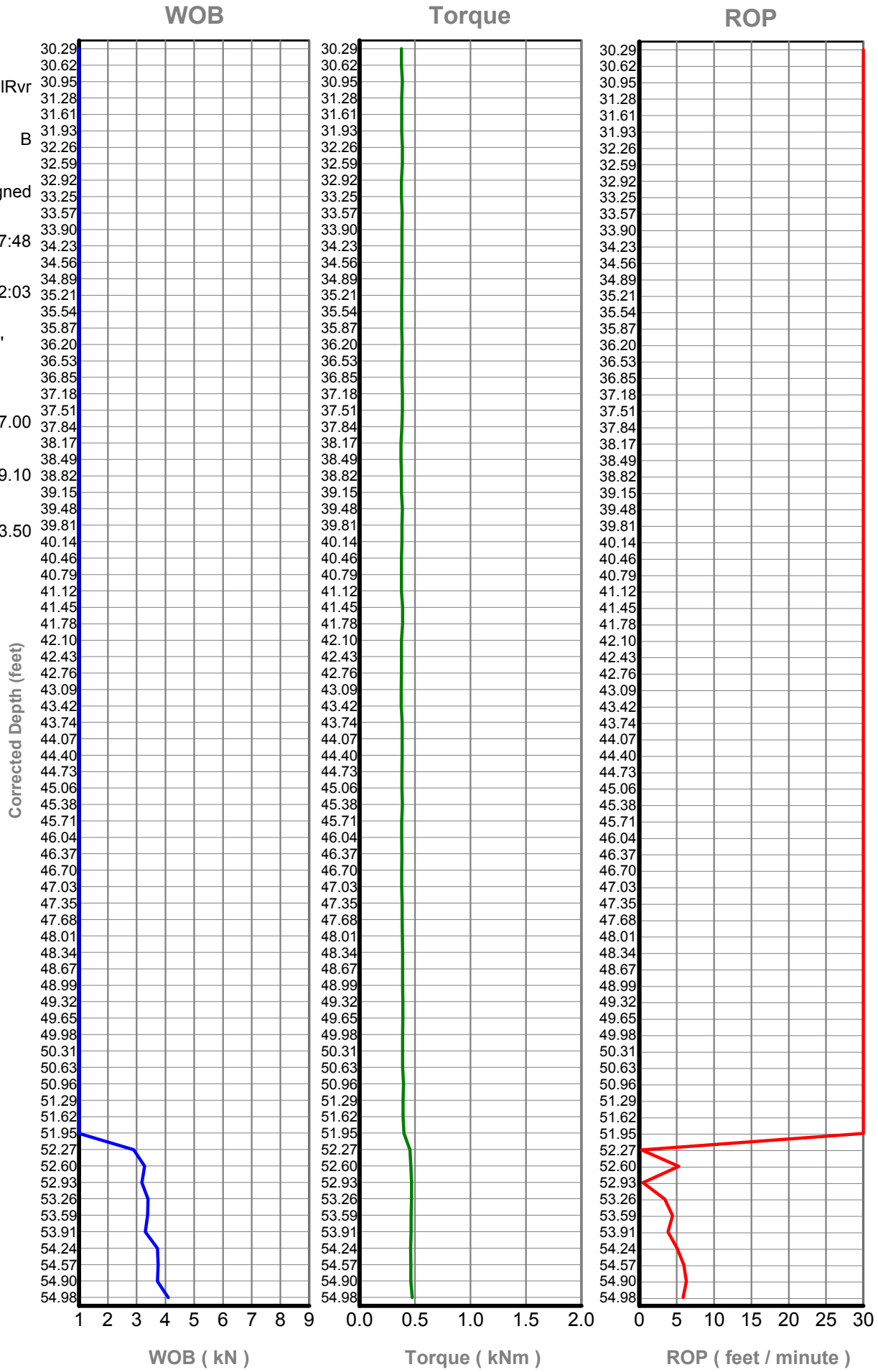
**End Date:**
5/2/2015 4:12:03

**Operator Note:**
'3.5 3.5b Auto Complete'

**Northing:**
359,027.00

**Easting:**
239,989.10

**Tide (feet):**
3.50



## Hole: M15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:08:20 | 33.79 | 30.29 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:08:20 | 34.12 | 30.62 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:08:20 | 34.45 | 30.95 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 4:08:21 | 34.78 | 31.28 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 4:08:21 | 35.11 | 31.61 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:08:21 | 35.43 | 31.93 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:08:22 | 35.76 | 32.26 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:08:22 | 36.09 | 32.59 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:22 | 36.42 | 32.92 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:23 | 36.75 | 33.25 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:23 | 37.07 | 33.57 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:23 | 37.40 | 33.90 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:24 | 37.73 | 34.23 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:24 | 38.06 | 34.56 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:08:24 | 38.39 | 34.89 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:08:25 | 38.71 | 35.21 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:08:25 | 39.04 | 35.54 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:08:25 | 39.37 | 35.87 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:26 | 39.70 | 36.20 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:26 | 40.03 | 36.53 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 4:08:26 | 40.35 | 36.85 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:08:27 | 40.68 | 37.18 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:08:27 | 41.01 | 37.51 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:08:27 | 41.34 | 37.84 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:08:36 | 41.67 | 38.17 | 15 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 4:08:37 | 41.99 | 38.49 | 15 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 4:08:37 | 42.32 | 38.82 | 209 | 1.14 | 0.29 | 11.4 |
| 5/2/2015 4:08:37 | 42.65 | 39.15 | 404 | 1.14 | 0.29 | 22.1 |
| 5/2/2015 4:08:38 | 42.98 | 39.48 | 606 | 1.14 | 0.29 | 33.2 |
| 5/2/2015 4:08:38 | 43.31 | 39.81 | 606 | 1.14 | 0.29 | 33.2 |
| 5/2/2015 4:08:38 | 43.64 | 40.14 | 801 | 1.14 | 0.29 | 43.8 |
| 5/2/2015 4:08:39 | 43.96 | 40.46 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 4:08:39 | 44.29 | 40.79 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 4:08:39 | 44.62 | 41.12 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 4:08:40 | 44.95 | 41.45 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:08:40 | 45.28 | 41.78 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:08:54 | 45.60 | 42.10 | 47 | 1.14 | 0.29 | 2.6 |
| 5/2/2015 4:08:55 | 45.93 | 42.43 | 238 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 4:08:55 | 46.26 | 42.76 | 238 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 4:08:55 | 46.59 | 43.09 | 427 | 1.14 | 0.29 | 23.3 |
| 5/2/2015 4:08:56 | 46.92 | 43.42 | 621 | 1.14 | 0.29 | 34.0 |
| 5/2/2015 4:08:56 | 47.24 | 43.74 | 621 | 1.14 | 0.29 | 34.0 |
| 5/2/2015 4:08:56 | 47.57 | 44.07 | 810 | 1.14 | 0.29 | 44.3 |
| 5/2/2015 4:08:57 | 47.90 | 44.40 | 956 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 4:08:57 | 48.23 | 44.73 | 957 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 4:08:58 | 48.56 | 45.06 | 957 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 4:08:58 | 48.88 | 45.38 | 956 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 4:08:58 | 49.21 | 45.71 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 4:08:59 | 49.54 | 46.04 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 4:08:59 | 49.87 | 46.37 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 4:08:59 | 50.20 | 46.70 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 4:09:00 | 50.53 | 47.03 | 945 | 1.14 | 0.29 | 51.7 |
| 5/2/2015 4:09:00 | 50.85 | 47.35 | 945 | 1.14 | 0.29 | 51.7 |
| 5/2/2015 4:09:13 | 51.18 | 47.68 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 4:09:13 | 51.51 | 48.01 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 4:09:13 | 51.84 | 48.34 | 247 | 1.14 | 0.29 | 13.5 |
| 5/2/2015 4:09:14 | 52.17 | 48.67 | 433 | 1.14 | 0.29 | 23.7 |
| 5/2/2015 4:09:14 | 52.49 | 48.99 | 433 | 1.14 | 0.29 | 23.7 |
| 5/2/2015 4:09:14 | 52.82 | 49.32 | 621 | 1.14 | 0.29 | 34.0 |
| 5/2/2015 4:09:15 | 53.15 | 49.65 | 798 | 1.14 | 0.29 | 43.7 |
| 5/2/2015 4:09:15 | 53.48 | 49.98 | 939 | 1.14 | 0.29 | 51.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:09:16 | 53.81 | 50.31 | 939 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 | 4:09:16 | 54.13 | 50.63 | 922 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 | 4:09:17 | 54.46 | 50.96 | 916 | 1.14 | 0.29 | 50.1 |
| 5/2/2015 | 4:09:17 | 54.79 | 51.29 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 4:09:18 | 55.12 | 51.62 | 899 | 1.14 | 0.29 | 49.2 |
| 5/2/2015 | 4:09:18 | 55.45 | 51.95 | 899 | 1.14 | 0.29 | 49.2 |
| 5/2/2015 | 4:09:18 | 55.77 | 52.27 | 876 | 1.14 | 0.29 | 47.9 |
| 5/2/2015 | 4:09:19 | 56.10 | 52.60 | 864 | 1.14 | 0.29 | 47.2 |
| 5/2/2015 | 4:09:46 | 56.43 | 52.93 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 4:09:47 | 56.76 | 53.26 | 169 | 1.14 | 0.29 | 9.2 |
| 5/2/2015 | 4:09:50 | 57.09 | 53.59 | 105 | 1.14 | 0.29 | 5.7 |
| 5/2/2015 | 4:09:55 | 57.41 | 53.91 | 96 | 1.14 | 0.29 | 5.3 |
| 5/2/2015 | 4:09:57 | 57.74 | 54.24 | 145 | 1.14 | 0.29 | 7.9 |
| 5/2/2015 | 4:09:59 | 58.07 | 54.57 | 187 | 1.14 | 0.29 | 10.2 |
| 5/2/2015 | 4:10:03 | 58.40 | 54.90 | 82 | 1.14 | 0.29 | 4.5 |
| 5/2/2015 | 4:10:06 | 58.54 | 55.04 | 67 | 1.14 | 0.29 | 3.7 |

## M15 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:07:14

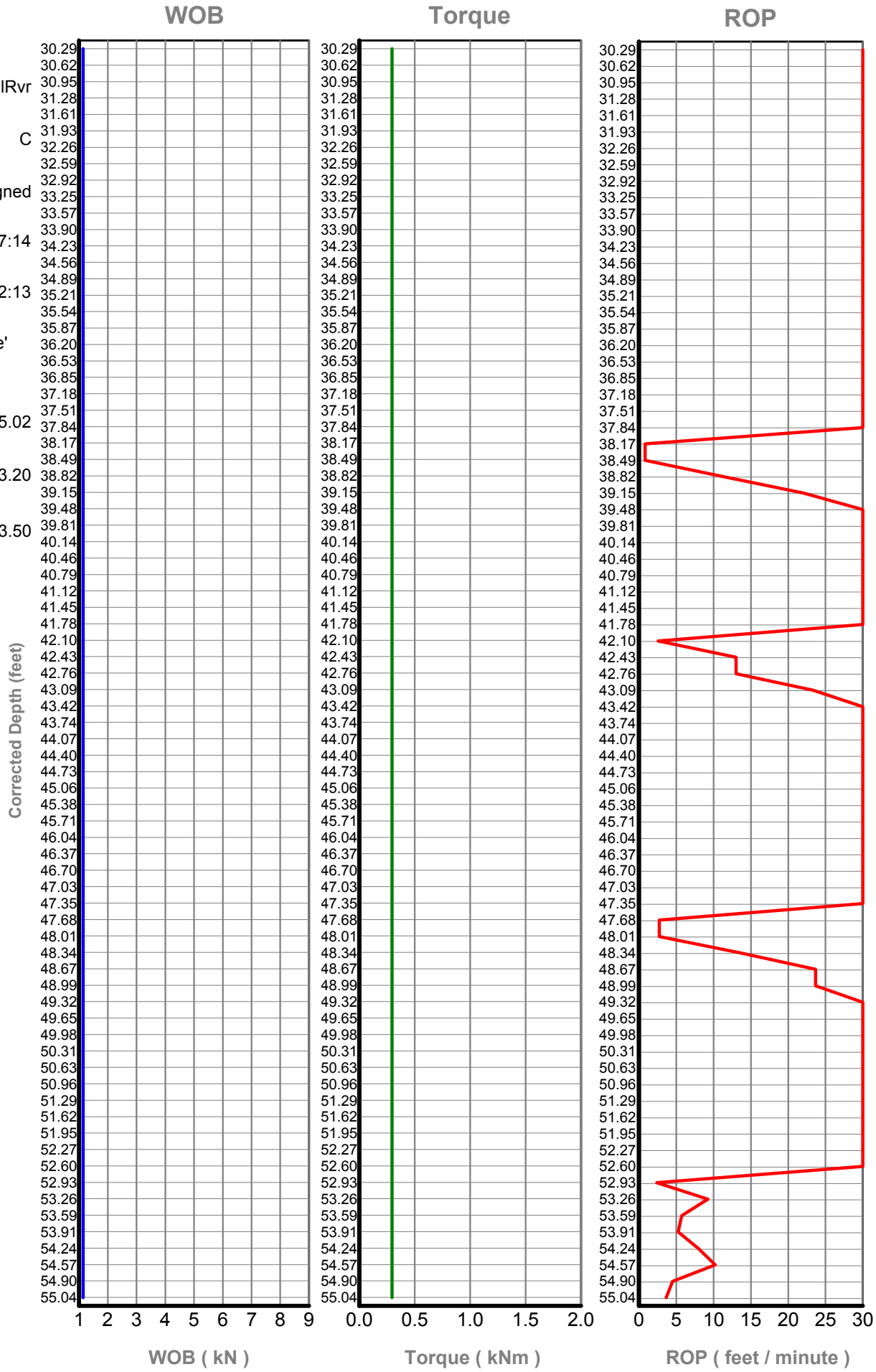
**End Date:**
5/2/2015 4:12:13

**Operator Note:**
'3.5 3.5 c Auto Complete'

**Northing:**
359,065.02

**Easting:**
240,053.20

**Tide (feet):**
3.50



## Hole: M16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:13:47 | 34.45 | 30.05 | 1,093 | 1.65 | 0.80 | 59.8 |
| 5/2/2015 3:13:47 | 34.78 | 30.38 | 1,093 | 1.67 | 0.80 | 59.8 |
| 5/2/2015 3:13:48 | 35.11 | 30.71 | 1,093 | 1.67 | 0.80 | 59.8 |
| 5/2/2015 3:13:48 | 35.43 | 31.03 | 1,096 | 1.67 | 0.79 | 59.9 |
| 5/2/2015 3:13:48 | 35.76 | 31.36 | 1,096 | 1.67 | 0.79 | 59.9 |
| 5/2/2015 3:13:48 | 36.09 | 31.69 | 1,090 | 1.64 | 0.79 | 59.6 |
| 5/2/2015 3:13:49 | 36.42 | 32.02 | 1,090 | 1.66 | 0.81 | 59.6 |
| 5/2/2015 3:13:49 | 36.75 | 32.35 | 1,090 | 1.66 | 0.81 | 59.6 |
| 5/2/2015 3:13:49 | 37.07 | 32.67 | 1,083 | 1.68 | 0.80 | 59.2 |
| 5/2/2015 3:13:50 | 37.40 | 33.00 | 1,090 | 1.57 | 0.78 | 59.6 |
| 5/2/2015 3:13:50 | 37.73 | 33.33 | 1,090 | 1.57 | 0.78 | 59.6 |
| 5/2/2015 3:13:50 | 38.06 | 33.66 | 1,096 | 1.66 | 0.79 | 59.9 |
| 5/2/2015 3:13:51 | 38.39 | 33.99 | 1,096 | 1.66 | 0.79 | 59.9 |
| 5/2/2015 3:13:51 | 38.71 | 34.31 | 1,090 | 1.65 | 0.82 | 59.6 |
| 5/2/2015 3:13:51 | 39.04 | 34.64 | 1,093 | 1.65 | 0.79 | 59.8 |
| 5/2/2015 3:13:52 | 39.37 | 34.97 | 1,093 | 1.65 | 0.79 | 59.8 |
| 5/2/2015 3:13:52 | 39.70 | 35.30 | 1,102 | 1.65 | 0.79 | 60.3 |
| 5/2/2015 3:13:52 | 40.03 | 35.63 | 1,093 | 1.66 | 0.78 | 59.8 |
| 5/2/2015 3:13:53 | 40.35 | 35.95 | 1,093 | 1.66 | 0.78 | 59.8 |
| 5/2/2015 3:13:53 | 40.68 | 36.28 | 1,090 | 1.66 | 0.80 | 59.6 |
| 5/2/2015 3:13:53 | 41.01 | 36.61 | 1,090 | 1.66 | 0.80 | 59.6 |
| 5/2/2015 3:13:53 | 41.34 | 36.94 | 1,084 | 1.65 | 0.79 | 59.3 |
| 5/2/2015 3:13:54 | 41.67 | 37.27 | 1,087 | 1.66 | 0.79 | 59.5 |
| 5/2/2015 3:13:54 | 41.99 | 37.59 | 1,087 | 1.66 | 0.79 | 59.5 |
| 5/2/2015 3:13:54 | 42.32 | 37.92 | 1,078 | 1.66 | 0.79 | 59.0 |
| 5/2/2015 3:13:55 | 42.65 | 38.25 | 1,066 | 1.65 | 0.80 | 58.3 |
| 5/2/2015 3:13:55 | 42.98 | 38.58 | 1,066 | 1.65 | 0.80 | 58.3 |
| 5/2/2015 3:13:55 | 43.31 | 38.91 | 1,066 | 1.45 | 0.79 | 58.3 |
| 5/2/2015 3:13:56 | 43.64 | 39.24 | 1,064 | 1.45 | 0.80 | 58.2 |
| 5/2/2015 3:13:56 | 43.96 | 39.56 | 1,064 | 1.45 | 0.80 | 58.2 |
| 5/2/2015 3:13:57 | 44.29 | 39.89 | 865 | 1.23 | 0.81 | 47.3 |
| 5/2/2015 3:13:58 | 44.62 | 40.22 | 774 | 1.21 | 0.79 | 42.3 |
| 5/2/2015 3:13:58 | 44.95 | 40.55 | 700 | 1.08 | 0.81 | 38.3 |
| 5/2/2015 3:13:59 | 45.28 | 40.88 | 614 | 1.24 | 0.80 | 33.6 |
| 5/2/2015 3:13:59 | 45.60 | 41.20 | 565 | 1.21 | 0.82 | 30.9 |
| 5/2/2015 3:14:00 | 45.93 | 41.53 | 638 | 1.23 | 0.81 | 34.9 |
| 5/2/2015 3:14:00 | 46.26 | 41.86 | 648 | 1.22 | 0.81 | 35.4 |
| 5/2/2015 3:14:01 | 46.59 | 42.19 | 645 | 1.24 | 0.80 | 35.3 |
| 5/2/2015 3:14:02 | 46.92 | 42.52 | 645 | 1.21 | 0.79 | 35.3 |
| 5/2/2015 3:14:03 | 47.24 | 42.84 | 645 | 1.22 | 0.80 | 35.3 |
| 5/2/2015 3:14:04 | 47.57 | 43.17 | 645 | 1.22 | 0.80 | 35.3 |
| 5/2/2015 3:14:03 | 47.90 | 43.50 | 641 | 1.22 | 0.82 | 35.1 |
| 5/2/2015 3:14:04 | 48.23 | 43.83 | 641 | 1.23 | 0.80 | 35.1 |
| 5/2/2015 3:14:04 | 48.56 | 44.16 | 641 | 1.22 | 0.80 | 35.1 |
| 5/2/2015 3:14:05 | 48.88 | 44.48 | 641 | 1.22 | 0.88 | 35.1 |
| 5/2/2015 3:14:05 | 49.21 | 44.81 | 641 | 1.21 | 0.82 | 35.1 |
| 5/2/2015 3:14:06 | 49.54 | 45.14 | 642 | 1.23 | 0.81 | 35.1 |
| 5/2/2015 3:14:06 | 49.87 | 45.47 | 642 | 1.22 | 0.82 | 35.1 |
| 5/2/2015 3:14:07 | 50.20 | 45.80 | 639 | 1.22 | 0.82 | 34.9 |
| 5/2/2015 3:14:08 | 50.53 | 46.13 | 639 | 1.22 | 0.82 | 34.9 |
| 5/2/2015 3:14:08 | 50.85 | 46.45 | 636 | 1.23 | 0.82 | 34.8 |
| 5/2/2015 3:14:09 | 51.18 | 46.78 | 630 | 1.22 | 0.79 | 34.5 |
| 5/2/2015 3:14:10 | 51.51 | 47.11 | 624 | 1.11 | 0.80 | 34.1 |
| 5/2/2015 3:14:10 | 51.84 | 47.44 | 619 | 1.09 | 0.80 | 33.8 |
| 5/2/2015 3:14:11 | 52.17 | 47.77 | 619 | 1.11 | 0.77 | 33.8 |
| 5/2/2015 3:14:11 | 52.49 | 48.09 | 616 | 1.10 | 0.76 | 33.7 |
| 5/2/2015 3:14:12 | 52.82 | 48.42 | 625 | 1.11 | 0.78 | 34.2 |
| 5/2/2015 3:14:12 | 53.15 | 48.75 | 621 | 1.15 | 0.79 | 33.9 |
| 5/2/2015 3:14:13 | 53.48 | 49.08 | 628 | 1.09 | 0.76 | 34.3 |
| 5/2/2015 3:14:13 | 53.81 | 49.41 | 619 | 1.13 | 0.76 | 33.8 |
| 5/2/2015 3:14:29 | 54.13 | 49.73 | 3 | 1.76 | 0.24 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:14:44 | 54.46 | 50.06 | 96 | 1.09 | 1.11 | 5.3 |
| 5/2/2015 | 3:14:46 | 54.79 | 50.39 | 206 | 1.14 | 1.25 | 11.2 |
| 5/2/2015 | 3:14:50 | 55.12 | 50.72 | 85 | 1.09 | 1.01 | 4.6 |
| 5/2/2015 | 3:14:57 | 55.45 | 51.05 | 43 | 1.04 | 0.98 | 2.4 |
| 5/2/2015 | 3:15:06 | 55.77 | 51.37 | 40 | 1.07 | 0.90 | 2.2 |
| 5/2/2015 | 3:15:15 | 56.10 | 51.70 | 34 | 1.07 | 0.88 | 1.9 |
| 5/2/2015 | 3:15:20 | 56.29 | 51.89 | 41 | 1.19 | 0.96 | 2.2 |

## M16 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:04:35

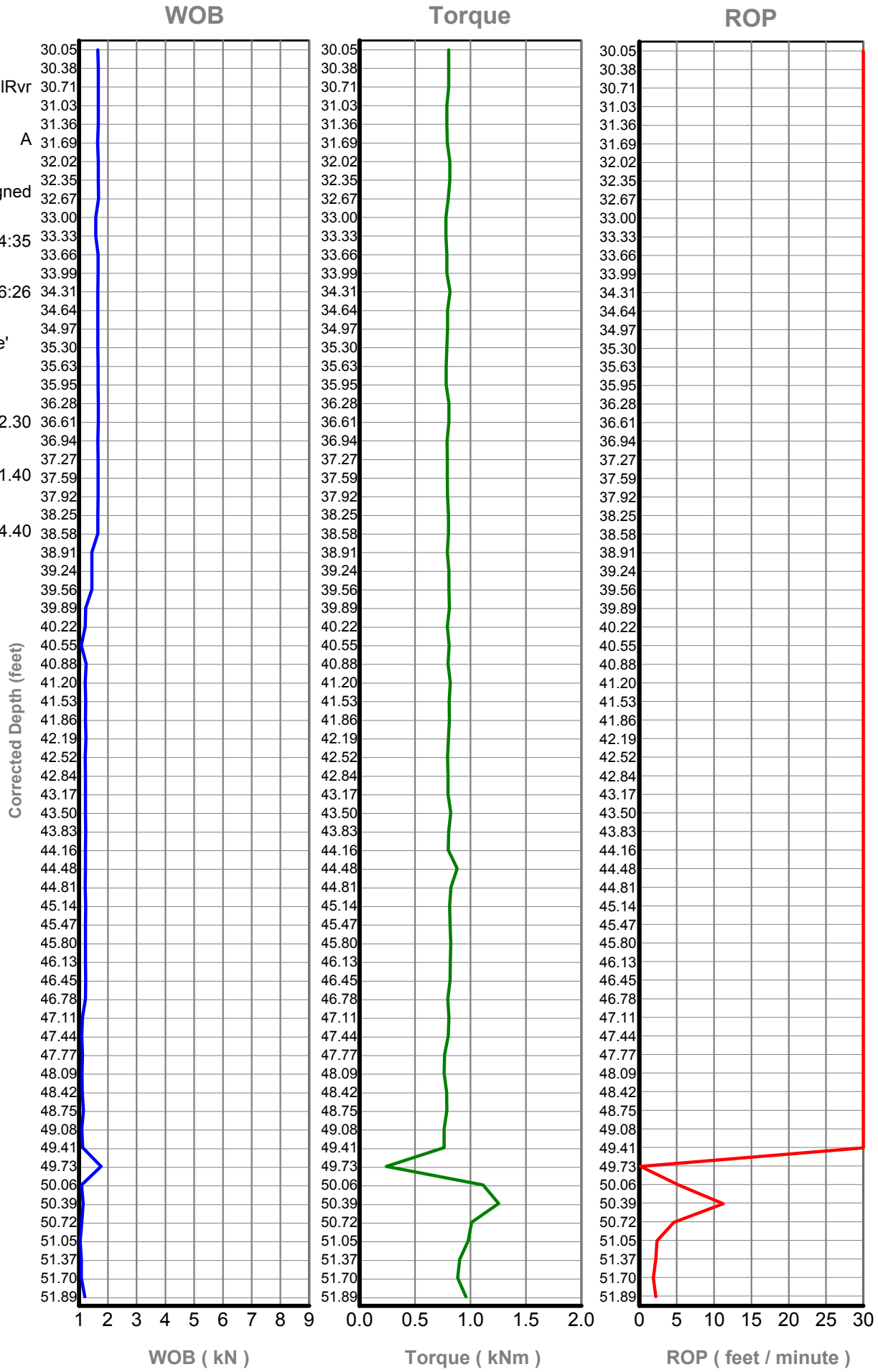
**End Date:**
5/2/2015 3:16:26

**Operator Note:**
'4.4 4.6 a Auto Complete'

**Northing:**
359,112.30

**Easting:**
240,121.40

**Tide (feet):**
4.40



## Hole: M17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:14:49 | 34.45 | 30.05 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 3:14:49 | 34.78 | 30.38 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:14:49 | 35.11 | 30.71 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:14:49 | 35.43 | 31.03 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:14:50 | 35.76 | 31.36 | 1,163 | 0.32 | 0.36 | 63.6 |
| 5/2/2015 3:14:50 | 36.09 | 31.69 | 1,163 | 0.32 | 0.36 | 63.6 |
| 5/2/2015 3:14:50 | 36.42 | 32.02 | 1,135 | 0.32 | 0.37 | 62.0 |
| 5/2/2015 3:14:51 | 36.75 | 32.35 | 1,135 | 0.32 | 0.37 | 62.0 |
| 5/2/2015 3:14:51 | 37.07 | 32.67 | 1,176 | 0.32 | 0.37 | 64.3 |
| 5/2/2015 3:14:51 | 37.40 | 33.00 | 1,143 | 0.32 | 0.36 | 62.5 |
| 5/2/2015 3:14:52 | 37.73 | 33.33 | 1,143 | 0.32 | 0.36 | 62.5 |
| 5/2/2015 3:14:52 | 38.06 | 33.66 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 3:14:52 | 38.39 | 33.99 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 3:14:52 | 38.71 | 34.31 | 1,149 | 0.32 | 0.35 | 62.8 |
| 5/2/2015 3:14:53 | 39.04 | 34.64 | 1,151 | 0.32 | 0.36 | 63.0 |
| 5/2/2015 3:14:53 | 39.37 | 34.97 | 1,151 | 0.32 | 0.36 | 63.0 |
| 5/2/2015 3:14:53 | 39.70 | 35.30 | 1,171 | 0.31 | 0.36 | 64.0 |
| 5/2/2015 3:14:54 | 40.03 | 35.63 | 1,171 | 0.31 | 0.36 | 64.0 |
| 5/2/2015 3:14:54 | 40.35 | 35.95 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:14:54 | 40.68 | 36.28 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 3:14:55 | 41.01 | 36.61 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 3:14:55 | 41.34 | 36.94 | 1,172 | 0.32 | 0.37 | 64.1 |
| 5/2/2015 3:14:56 | 41.67 | 37.27 | 1,172 | 0.32 | 0.37 | 64.1 |
| 5/2/2015 3:14:55 | 41.99 | 37.59 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 3:14:56 | 42.32 | 37.92 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 3:14:56 | 42.65 | 38.25 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 3:14:57 | 42.98 | 38.58 | 1,155 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 3:14:57 | 43.31 | 38.91 | 1,155 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 3:14:57 | 43.64 | 39.24 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 3:14:58 | 43.96 | 39.56 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 3:14:58 | 44.29 | 39.89 | 1,175 | 0.31 | 0.36 | 64.3 |
| 5/2/2015 3:14:58 | 44.62 | 40.22 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 3:14:59 | 44.95 | 40.55 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 3:14:59 | 45.28 | 40.88 | 1,177 | 0.31 | 0.37 | 64.4 |
| 5/2/2015 3:14:59 | 45.60 | 41.20 | 1,177 | 0.31 | 0.37 | 64.4 |
| 5/2/2015 3:14:59 | 45.93 | 41.53 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 3:15:00 | 46.26 | 41.86 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 3:15:00 | 46.59 | 42.19 | 1,171 | 0.31 | 0.36 | 64.0 |
| 5/2/2015 3:15:00 | 46.92 | 42.52 | 1,171 | 0.32 | 0.36 | 64.0 |
| 5/2/2015 3:15:01 | 47.24 | 42.84 | 1,171 | 0.32 | 0.36 | 64.0 |
| 5/2/2015 3:15:01 | 47.57 | 43.17 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 3:15:01 | 47.90 | 43.50 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 3:15:01 | 48.23 | 43.83 | 1,158 | 0.32 | 0.35 | 63.3 |
| 5/2/2015 3:15:02 | 48.56 | 44.16 | 1,169 | 0.32 | 0.36 | 63.9 |
| 5/2/2015 3:15:02 | 48.88 | 44.48 | 1,169 | 0.32 | 0.36 | 63.9 |
| 5/2/2015 3:15:02 | 49.21 | 44.81 | 1,153 | 0.32 | 0.38 | 63.0 |
| 5/2/2015 3:15:03 | 49.54 | 45.14 | 1,153 | 0.32 | 0.38 | 63.0 |
| 5/2/2015 3:15:03 | 49.87 | 45.47 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:15:03 | 50.20 | 45.80 | 1,156 | 0.31 | 0.35 | 63.2 |
| 5/2/2015 3:15:04 | 50.53 | 46.13 | 1,156 | 0.31 | 0.35 | 63.2 |
| 5/2/2015 3:15:04 | 50.85 | 46.45 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 3:15:04 | 51.18 | 46.78 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 3:15:04 | 51.51 | 47.11 | 1,154 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 3:15:05 | 51.84 | 47.44 | 1,154 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 3:15:05 | 52.17 | 47.77 | 1,154 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 3:15:05 | 52.49 | 48.09 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 3:15:06 | 52.82 | 48.42 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 3:15:06 | 53.15 | 48.75 | 1,121 | 0.31 | 0.38 | 61.3 |
| 5/2/2015 3:15:06 | 53.48 | 49.08 | 1,105 | 0.31 | 0.39 | 60.4 |
| 5/2/2015 3:15:07 | 53.81 | 49.41 | 1,105 | 0.31 | 0.39 | 60.4 |
| 5/2/2015 3:15:07 | 54.13 | 49.73 | 1,069 | 0.29 | 0.41 | 58.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:15:14 | 54.46 | 50.06 | 52 | 4.32 | 0.43 | 2.8 |
| 5/2/2015 | 3:15:14 | 54.79 | 50.39 | 52 | 3.54 | 0.42 | 2.8 |
| 5/2/2015 | 3:15:15 | 55.12 | 50.72 | 215 | 3.53 | 0.45 | 11.8 |
| 5/2/2015 | 3:15:17 | 55.45 | 51.05 | 271 | 3.80 | 0.45 | 14.8 |
| 5/2/2015 | 3:15:18 | 55.77 | 51.37 | 302 | 4.03 | 0.44 | 16.5 |
| 5/2/2015 | 3:15:20 | 56.10 | 51.70 | 271 | 3.73 | 0.45 | 14.8 |
| 5/2/2015 | 3:15:21 | 56.43 | 52.03 | 251 | 3.78 | 0.46 | 13.7 |
| 5/2/2015 | 3:15:23 | 56.76 | 52.36 | 187 | 4.06 | 0.45 | 10.2 |
| 5/2/2015 | 3:15:28 | 57.09 | 52.69 | 76 | 3.38 | 0.47 | 4.2 |
| 5/2/2015 | 3:15:33 | 57.41 | 53.01 | 61 | 3.42 | 0.47 | 3.3 |
| 5/2/2015 | 3:15:36 | 57.74 | 53.34 | 98 | 3.84 | 0.46 | 5.4 |
| 5/2/2015 | 3:15:40 | 58.07 | 53.67 | 122 | 5.65 | 0.46 | 6.7 |
| 5/2/2015 | 3:15:41 | 58.40 | 54.00 | 149 | 6.25 | 0.45 | 8.1 |
| 5/2/2015 | 3:15:43 | 58.73 | 54.33 | 227 | 3.94 | 0.44 | 12.4 |
| 5/2/2015 | 3:15:43 | 59.06 | 54.66 | 247 | 4.10 | 0.45 | 13.5 |
| 5/2/2015 | 3:15:46 | 59.38 | 54.98 | 211 | 4.19 | 0.44 | 11.5 |
| 5/2/2015 | 3:15:47 | 59.60 | 55.20 | 142 | 5.91 | 0.49 | 7.8 |

## M17 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:13:18

**End Date:**
5/2/2015 3:17:25

**Operator Note:**
'4.4 4.6b Auto Complete'

**Northing:**
359,153.31

**Easting:**
240,184.22

**Tide (feet):**
4.40



## Hole: M18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:13:23 | 34.45 | 30.05 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:13:23 | 34.78 | 30.38 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:13:23 | 35.11 | 30.71 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:13:24 | 35.43 | 31.03 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:24 | 35.76 | 31.36 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:24 | 36.09 | 31.69 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:13:25 | 36.42 | 32.02 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:25 | 36.75 | 32.35 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:25 | 37.07 | 32.67 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:26 | 37.40 | 33.00 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:26 | 37.73 | 33.33 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:26 | 38.06 | 33.66 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 3:13:27 | 38.39 | 33.99 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:13:27 | 38.71 | 34.31 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:13:27 | 39.04 | 34.64 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:13:28 | 39.37 | 34.97 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:28 | 39.70 | 35.30 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:28 | 40.03 | 35.63 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:29 | 40.35 | 35.95 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:29 | 40.68 | 36.28 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:29 | 41.01 | 36.61 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:30 | 41.34 | 36.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:31 | 41.67 | 37.27 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:13:31 | 41.99 | 37.59 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:31 | 42.32 | 37.92 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:13:32 | 42.65 | 38.25 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:13:32 | 42.98 | 38.58 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:13:32 | 43.31 | 38.91 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:33 | 43.64 | 39.24 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:33 | 43.96 | 39.56 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:33 | 44.29 | 39.89 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:34 | 44.62 | 40.22 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:34 | 44.95 | 40.55 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:34 | 45.28 | 40.88 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:13:35 | 45.60 | 41.20 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:13:35 | 45.93 | 41.53 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:35 | 46.26 | 41.86 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:36 | 46.59 | 42.19 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:13:36 | 46.92 | 42.52 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:36 | 47.24 | 42.84 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:37 | 47.57 | 43.17 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:37 | 47.90 | 43.50 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:13:37 | 48.23 | 43.83 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:38 | 48.56 | 44.16 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:13:38 | 48.88 | 44.48 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 3:13:38 | 49.21 | 44.81 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:13:39 | 49.54 | 45.14 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:13:39 | 49.87 | 45.47 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 3:13:39 | 50.20 | 45.80 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:13:40 | 50.53 | 46.13 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:13:40 | 50.85 | 46.45 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 3:13:40 | 51.18 | 46.78 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 3:13:41 | 51.51 | 47.11 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 3:13:41 | 51.84 | 47.44 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 3:13:41 | 52.17 | 47.77 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 3:13:42 | 52.49 | 48.09 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 3:13:43 | 52.82 | 48.42 | 948 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 3:13:43 | 53.15 | 48.75 | 948 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 3:13:53 | 53.48 | 49.08 | 65 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 3:13:55 | 53.81 | 49.41 | 238 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 3:13:59 | 54.13 | 49.73 | 96 | 1.14 | 0.29 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:14:02 | 54.46 | 50.06 | 96 | 1.14 | 0.29 | 5.2 |
| 5/2/2015 | 3:14:05 | 54.79 | 50.39 | 114 | 1.14 | 0.29 | 6.2 |
| 5/2/2015 | 3:14:10 | 55.12 | 50.72 | 81 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 3:14:14 | 55.45 | 51.05 | 81 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 3:14:18 | 55.77 | 51.37 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 | 3:14:22 | 56.10 | 51.70 | 113 | 1.14 | 0.29 | 6.2 |
| 5/2/2015 | 3:14:24 | 56.43 | 52.03 | 147 | 1.14 | 0.29 | 8.0 |
| 5/2/2015 | 3:14:26 | 56.76 | 52.36 | 163 | 1.14 | 0.29 | 8.9 |
| 5/2/2015 | 3:14:30 | 57.09 | 52.69 | 93 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 | 3:14:35 | 57.41 | 53.01 | 61 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 3:14:42 | 57.74 | 53.34 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 3:14:47 | 58.07 | 53.67 | 59 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 | 3:14:55 | 58.40 | 54.00 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 3:14:56 | 58.45 | 54.05 | 50 | 1.14 | 0.29 | 2.7 |

## M18 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:12:24

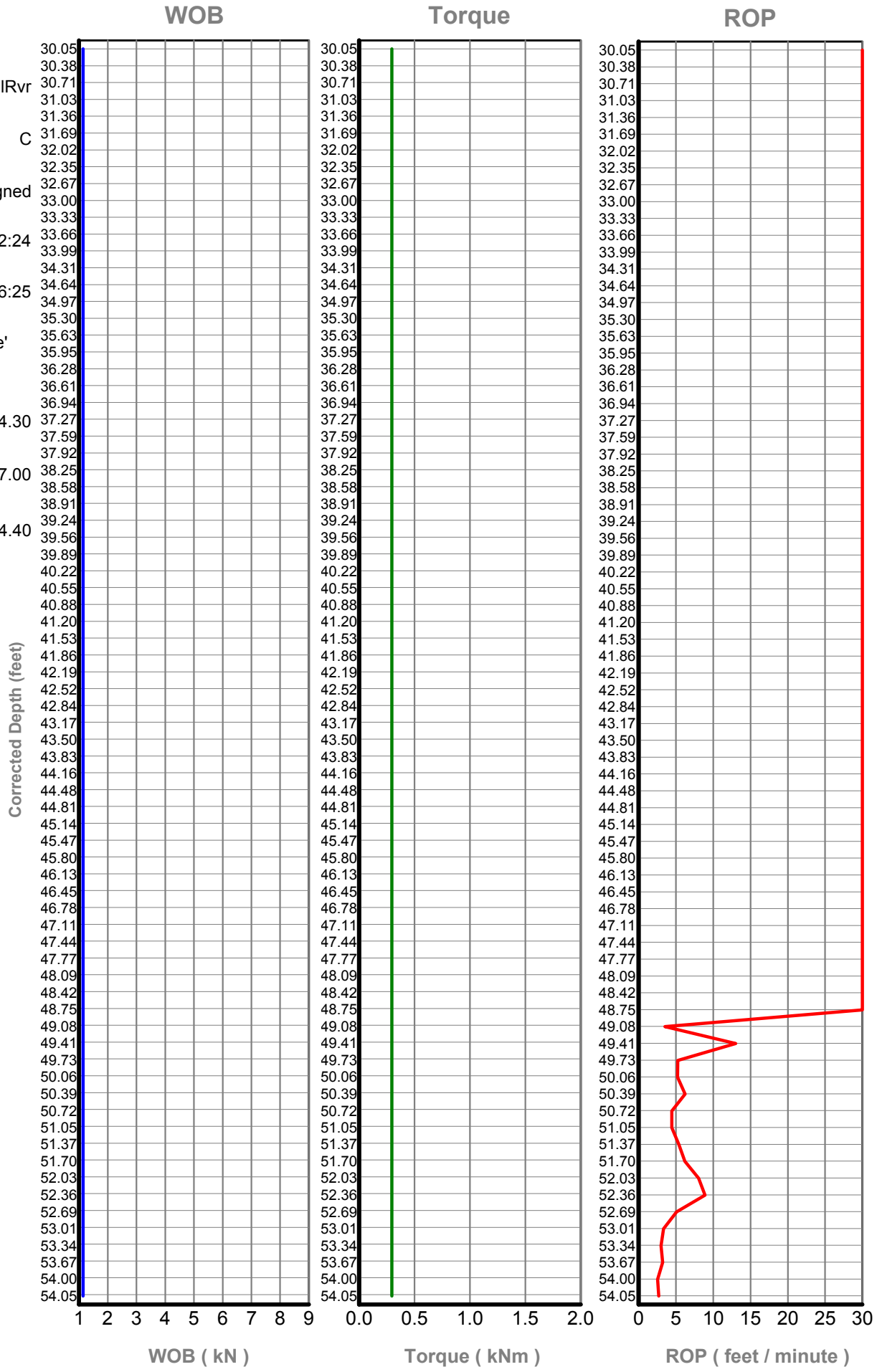
**End Date:**
5/2/2015 3:16:25

**Operator Note:**
'4.4 4.6 c Auto Complete'

**Northing:**
359,194.30

**Easting:**
240,247.00

**Tide (feet):**
4.40



## Hole: M19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:18:59 | 37.40 | 30.30 | 689 | 1.28 | 0.28 | 37.7 |
| 5/2/2015 0:19:00 | 37.73 | 30.63 | 682 | 1.28 | 0.28 | 37.3 |
| 5/2/2015 0:19:00 | 38.06 | 30.96 | 679 | 1.28 | 0.28 | 37.1 |
| 5/2/2015 0:19:01 | 38.39 | 31.29 | 676 | 1.28 | 0.28 | 36.9 |
| 5/2/2015 0:19:01 | 38.71 | 31.61 | 680 | 1.27 | 0.28 | 37.2 |
| 5/2/2015 0:19:02 | 39.04 | 31.94 | 677 | 1.28 | 0.28 | 37.0 |
| 5/2/2015 0:19:02 | 39.37 | 32.27 | 674 | 1.28 | 0.28 | 36.8 |
| 5/2/2015 0:19:03 | 39.70 | 32.60 | 673 | 1.27 | 0.28 | 36.8 |
| 5/2/2015 0:19:03 | 40.03 | 32.93 | 680 | 1.28 | 0.28 | 37.2 |
| 5/2/2015 0:19:04 | 40.35 | 33.25 | 674 | 1.27 | 0.28 | 36.8 |
| 5/2/2015 0:19:04 | 40.68 | 33.58 | 674 | 1.28 | 0.28 | 36.8 |
| 5/2/2015 0:19:05 | 41.01 | 33.91 | 673 | 1.27 | 0.28 | 36.8 |
| 5/2/2015 0:19:06 | 41.34 | 34.24 | 677 | 1.28 | 0.27 | 37.0 |
| 5/2/2015 0:19:06 | 41.67 | 34.57 | 674 | 1.28 | 0.27 | 36.8 |
| 5/2/2015 0:19:07 | 41.99 | 34.89 | 677 | 1.29 | 0.28 | 37.0 |
| 5/2/2015 0:19:07 | 42.32 | 35.22 | 672 | 1.14 | 0.22 | 36.8 |
| 5/2/2015 0:19:08 | 42.65 | 35.55 | 679 | 1.16 | 0.21 | 37.1 |
| 5/2/2015 0:19:08 | 42.98 | 35.88 | 685 | 1.15 | 0.22 | 37.5 |
| 5/2/2015 0:19:09 | 43.31 | 36.21 | 694 | 1.13 | 0.21 | 37.9 |
| 5/2/2015 0:19:09 | 43.64 | 36.54 | 693 | 1.15 | 0.21 | 37.9 |
| 5/2/2015 0:19:10 | 43.96 | 36.86 | 706 | 1.25 | 0.26 | 38.6 |
| 5/2/2015 0:19:10 | 44.29 | 37.19 | 704 | 1.25 | 0.28 | 38.5 |
| 5/2/2015 0:19:11 | 44.62 | 37.52 | 688 | 1.26 | 0.27 | 37.6 |
| 5/2/2015 0:19:11 | 44.95 | 37.85 | 676 | 1.18 | 0.22 | 36.9 |
| 5/2/2015 0:19:12 | 45.28 | 38.18 | 686 | 1.15 | 0.21 | 37.5 |
| 5/2/2015 0:19:12 | 45.60 | 38.50 | 677 | 1.15 | 0.21 | 37.0 |
| 5/2/2015 0:19:13 | 45.93 | 38.83 | 685 | 1.15 | 0.21 | 37.5 |
| 5/2/2015 0:19:13 | 46.26 | 39.16 | 697 | 1.16 | 0.21 | 38.1 |
| 5/2/2015 0:19:14 | 46.59 | 39.49 | 701 | 1.14 | 0.22 | 38.3 |
| 5/2/2015 0:19:14 | 46.92 | 39.82 | 706 | 1.15 | 0.21 | 38.6 |
| 5/2/2015 0:19:15 | 47.24 | 40.14 | 706 | 1.15 | 0.21 | 38.6 |
| 5/2/2015 0:19:16 | 47.57 | 40.47 | 702 | 1.14 | 0.21 | 38.4 |
| 5/2/2015 0:19:16 | 47.90 | 40.80 | 706 | 1.15 | 0.22 | 38.6 |
| 5/2/2015 0:19:17 | 48.23 | 41.13 | 710 | 1.14 | 0.21 | 38.8 |
| 5/2/2015 0:19:17 | 48.56 | 41.46 | 705 | 1.15 | 0.21 | 38.6 |
| 5/2/2015 0:19:18 | 48.88 | 41.78 | 705 | 1.15 | 0.21 | 38.6 |
| 5/2/2015 0:19:18 | 49.21 | 42.11 | 705 | 1.17 | 0.22 | 38.6 |
| 5/2/2015 0:19:19 | 49.54 | 42.44 | 705 | 1.15 | 0.22 | 38.6 |
| 5/2/2015 0:19:19 | 49.87 | 42.77 | 706 | 1.15 | 0.21 | 38.6 |
| 5/2/2015 0:19:20 | 50.20 | 43.10 | 700 | 1.15 | 0.23 | 38.3 |
| 5/2/2015 0:19:20 | 50.53 | 43.43 | 702 | 1.15 | 0.21 | 38.4 |
| 5/2/2015 0:19:21 | 50.85 | 43.75 | 701 | 1.15 | 0.21 | 38.3 |
| 5/2/2015 0:19:21 | 51.18 | 44.08 | 694 | 1.18 | 0.21 | 37.9 |
| 5/2/2015 0:19:22 | 51.51 | 44.41 | 690 | 1.14 | 0.21 | 37.7 |
| 5/2/2015 0:19:22 | 51.84 | 44.74 | 694 | 1.15 | 0.21 | 37.9 |
| 5/2/2015 0:19:23 | 52.17 | 45.07 | 687 | 1.15 | 0.21 | 37.6 |
| 5/2/2015 0:19:23 | 52.49 | 45.39 | 687 | 1.13 | 0.21 | 37.6 |
| 5/2/2015 0:19:24 | 52.82 | 45.72 | 688 | 1.15 | 0.21 | 37.6 |
| 5/2/2015 0:19:24 | 53.15 | 46.05 | 682 | 1.15 | 0.21 | 37.3 |
| 5/2/2015 0:19:25 | 53.48 | 46.38 | 674 | 1.15 | 0.21 | 36.8 |
| 5/2/2015 0:19:25 | 53.81 | 46.71 | 669 | 1.14 | 0.21 | 36.6 |
| 5/2/2015 0:19:26 | 54.13 | 47.03 | 662 | 1.15 | 0.15 | 36.2 |
| 5/2/2015 0:19:27 | 54.46 | 47.36 | 659 | 1.15 | 0.21 | 36.0 |
| 5/2/2015 0:19:27 | 54.79 | 47.69 | 656 | 1.15 | 0.21 | 35.9 |
| 5/2/2015 0:19:28 | 55.12 | 48.02 | 656 | 1.15 | 0.21 | 35.9 |
| 5/2/2015 0:19:28 | 55.45 | 48.35 | 656 | 1.15 | 0.22 | 35.9 |
| 5/2/2015 0:19:29 | 55.77 | 48.67 | 650 | 1.18 | 0.21 | 35.6 |
| 5/2/2015 0:19:44 | 56.10 | 49.00 | 17 | 1.11 | 1.11 | 0.9 |
| 5/2/2015 0:19:46 | 56.43 | 49.33 | 110 | 1.11 | 1.21 | 6.0 |
| 5/2/2015 0:19:47 | 56.76 | 49.66 | 203 | 1.15 | 1.07 | 11.1 |
| 5/2/2015 0:19:49 | 57.09 | 49.99 | 233 | 1.15 | 1.32 | 12.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:19:50 | 57.41 | 50.31 | 243 | 1.12 | 1.32 | 13.3 |
| 5/2/2015 | 0:19:52 | 57.74 | 50.64 | 237 | 1.08 | 1.20 | 12.9 |
| 5/2/2015 | 0:19:55 | 58.07 | 50.97 | 60 | 1.15 | 1.27 | 3.3 |
| 5/2/2015 | 0:19:57 | 58.40 | 51.30 | 184 | 1.11 | 1.14 | 10.0 |
| 5/2/2015 | 0:19:59 | 58.73 | 51.63 | 264 | 1.13 | 1.26 | 14.4 |
| 5/2/2015 | 0:20:00 | 59.06 | 51.96 | 274 | 1.13 | 1.49 | 15.0 |
| 5/2/2015 | 0:20:05 | 59.38 | 52.28 | 0 | 1.20 | 1.95 | 0.0 |
| 5/2/2015 | 0:20:06 | 59.71 | 52.61 | 85 | 1.11 | 1.87 | 4.6 |
| 5/2/2015 | 0:20:08 | 60.04 | 52.94 | 173 | 1.12 | 1.30 | 9.4 |
| 5/2/2015 | 0:20:10 | 60.37 | 53.27 | 182 | 1.07 | 1.94 | 9.9 |
| 5/2/2015 | 0:20:12 | 60.70 | 53.60 | 191 | 1.12 | 1.37 | 10.4 |
| 5/2/2015 | 0:20:13 | 61.02 | 53.92 | 222 | 1.09 | 1.30 | 12.2 |
| 5/2/2015 | 0:20:15 | 61.35 | 54.25 | 225 | 1.07 | 1.65 | 12.3 |
| 5/2/2015 | 0:20:17 | 61.68 | 54.58 | 191 | 1.11 | 1.45 | 10.4 |
| 5/2/2015 | 0:20:24 | 62.01 | 54.91 | 0 | 1.10 | 1.69 | 0.0 |
| 5/2/2015 | 0:20:25 | 62.07 | 54.97 | 32 | 0.84 | 1.56 | 1.7 |

## M19 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:06:49

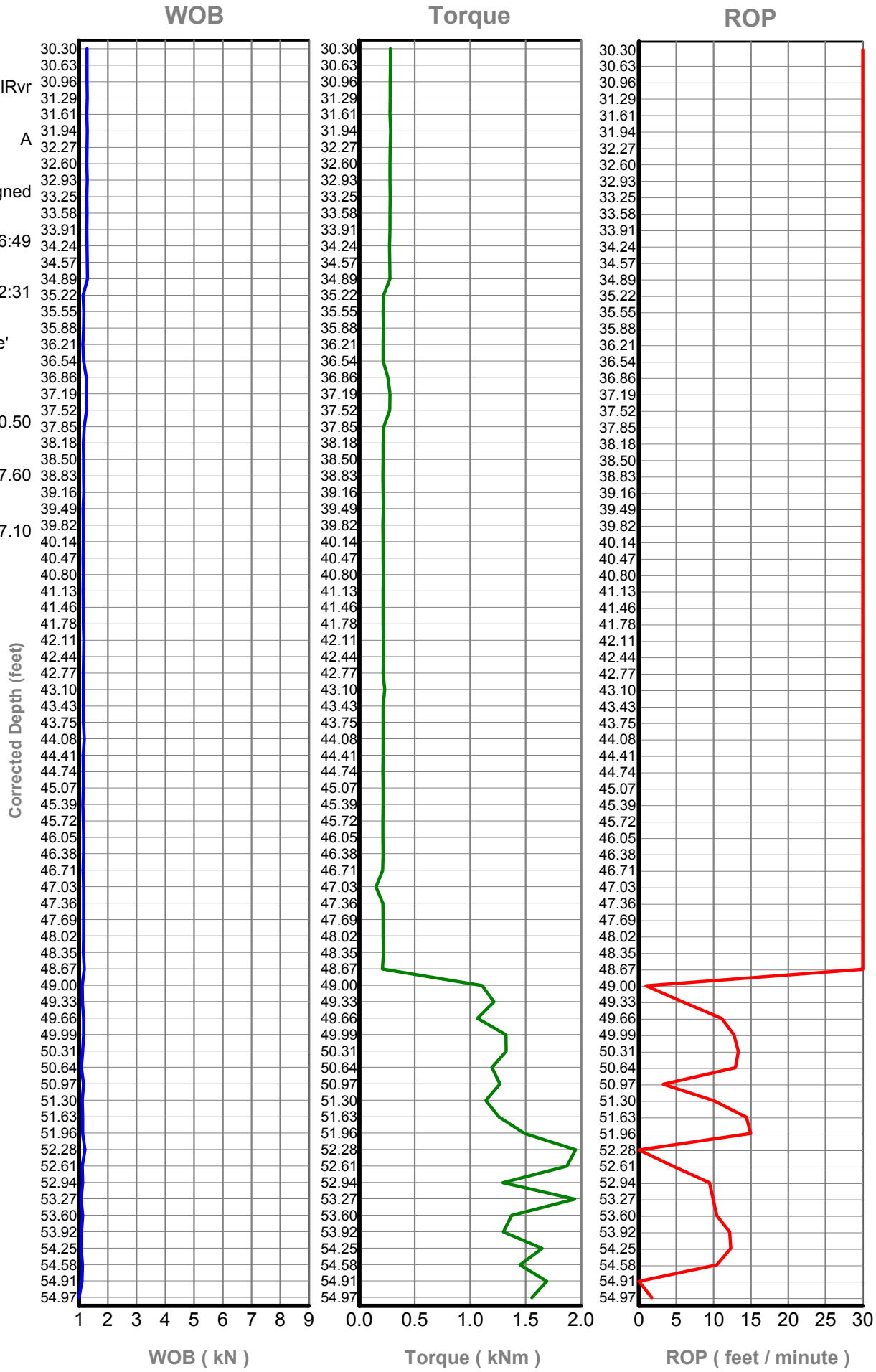
**End Date:**
5/2/2015 0:22:31

**Operator Note:**
'7.1 7.1 a Auto Complete'

**Northing:**
359,230.50

**Easting:**
240,317.60

**Tide (feet):**
7.10



## Hole: M2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:52:53 | 33.79 | 30.19 | 1,044 | 0.38 | 0.39 | 57.1 |
| 5/2/2015 3:52:53 | 34.12 | 30.52 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:53 | 34.45 | 30.85 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:54 | 34.78 | 31.18 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:54 | 35.11 | 31.51 | 1,038 | 0.38 | 0.39 | 56.8 |
| 5/2/2015 3:52:54 | 35.43 | 31.83 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:55 | 35.76 | 32.16 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:55 | 36.09 | 32.49 | 1,035 | 0.38 | 0.39 | 56.6 |
| 5/2/2015 3:52:55 | 36.42 | 32.82 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 3:52:56 | 36.75 | 33.15 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 3:52:56 | 37.07 | 33.47 | 1,026 | 0.37 | 0.39 | 56.1 |
| 5/2/2015 3:52:56 | 37.40 | 33.80 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 3:52:57 | 37.73 | 34.13 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 3:52:57 | 38.06 | 34.46 | 1,032 | 0.38 | 0.38 | 56.4 |
| 5/2/2015 3:52:58 | 38.39 | 34.79 | 1,035 | 0.37 | 0.38 | 56.6 |
| 5/2/2015 3:52:58 | 38.71 | 35.11 | 1,035 | 0.37 | 0.38 | 56.6 |
| 5/2/2015 3:52:58 | 39.04 | 35.44 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 3:52:59 | 39.37 | 35.77 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:59 | 39.70 | 36.10 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 3:52:59 | 40.03 | 36.43 | 1,038 | 0.37 | 0.39 | 56.8 |
| 5/2/2015 3:53:00 | 40.35 | 36.75 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 3:53:00 | 40.68 | 37.08 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 3:53:00 | 41.01 | 37.41 | 1,020 | 0.37 | 0.39 | 55.8 |
| 5/2/2015 3:53:01 | 41.34 | 37.74 | 1,021 | 0.37 | 0.39 | 55.8 |
| 5/2/2015 3:53:01 | 41.67 | 38.07 | 1,021 | 0.37 | 0.39 | 55.8 |
| 5/2/2015 3:53:01 | 41.99 | 38.39 | 1,012 | 0.37 | 0.39 | 55.3 |
| 5/2/2015 3:53:02 | 42.32 | 38.72 | 1,009 | 0.37 | 0.39 | 55.2 |
| 5/2/2015 3:53:02 | 42.65 | 39.05 | 1,009 | 0.37 | 0.39 | 55.2 |
| 5/2/2015 3:53:02 | 42.98 | 39.38 | 1,003 | 0.38 | 0.39 | 54.9 |
| 5/2/2015 3:53:03 | 43.31 | 39.71 | 1,006 | 0.37 | 0.39 | 55.0 |
| 5/2/2015 3:53:03 | 43.64 | 40.04 | 1,006 | 0.37 | 0.39 | 55.0 |
| 5/2/2015 3:53:03 | 43.96 | 40.36 | 1,006 | 0.37 | 0.39 | 55.0 |
| 5/2/2015 3:53:04 | 44.29 | 40.69 | 997 | 0.37 | 0.40 | 54.5 |
| 5/2/2015 3:53:04 | 44.62 | 41.02 | 983 | 0.37 | 0.39 | 53.7 |
| 5/2/2015 3:53:05 | 44.95 | 41.35 | 983 | 0.37 | 0.39 | 53.7 |
| 5/2/2015 3:53:05 | 45.28 | 41.68 | 983 | 0.37 | 0.39 | 53.7 |
| 5/2/2015 3:53:05 | 45.60 | 42.00 | 971 | 0.37 | 0.40 | 53.1 |
| 5/2/2015 3:53:06 | 45.93 | 42.33 | 971 | 0.37 | 0.40 | 53.1 |
| 5/2/2015 3:53:06 | 46.26 | 42.66 | 951 | 0.32 | 0.40 | 52.0 |
| 5/2/2015 3:53:06 | 46.59 | 42.99 | 942 | 0.36 | 0.40 | 51.5 |
| 5/2/2015 3:53:07 | 46.92 | 43.32 | 934 | 0.37 | 0.39 | 51.1 |
| 5/2/2015 3:53:08 | 47.24 | 43.64 | 934 | 0.37 | 0.39 | 51.1 |
| 5/2/2015 3:53:08 | 47.57 | 43.97 | 928 | 0.36 | 0.40 | 50.7 |
| 5/2/2015 3:53:08 | 47.90 | 44.30 | 919 | 0.36 | 0.41 | 50.3 |
| 5/2/2015 3:53:09 | 48.23 | 44.63 | 899 | 0.35 | 0.43 | 49.2 |
| 5/2/2015 3:53:14 | 48.56 | 44.96 | 0 | 3.78 | 0.44 | 0.0 |
| 5/2/2015 3:53:16 | 48.88 | 45.28 | 156 | 3.79 | 0.46 | 8.5 |
| 5/2/2015 3:53:23 | 49.21 | 45.61 | 0 | 3.64 | 0.47 | 0.0 |
| 5/2/2015 3:53:24 | 49.54 | 45.94 | 20 | 3.75 | 0.43 | 1.1 |
| 5/2/2015 3:53:25 | 49.87 | 46.27 | 270 | 3.58 | 0.44 | 14.7 |
| 5/2/2015 3:53:26 | 50.20 | 46.60 | 358 | 3.16 | 0.44 | 19.6 |
| 5/2/2015 3:53:27 | 50.53 | 46.93 | 529 | 3.32 | 0.44 | 28.9 |
| 5/2/2015 3:53:27 | 50.85 | 47.25 | 478 | 3.21 | 0.44 | 26.1 |
| 5/2/2015 3:53:29 | 51.18 | 47.58 | 381 | 3.57 | 0.47 | 20.8 |
| 5/2/2015 3:53:39 | 51.51 | 47.91 | 95 | 4.01 | 0.46 | 5.2 |
| 5/2/2015 3:53:41 | 51.84 | 48.24 | 127 | 3.88 | 0.46 | 7.0 |
| 5/2/2015 3:53:45 | 52.17 | 48.57 | 93 | 3.66 | 0.47 | 5.1 |
| 5/2/2015 3:53:51 | 52.49 | 48.89 | 58 | 3.33 | 0.47 | 3.2 |
| 5/2/2015 3:53:58 | 52.82 | 49.22 | 53 | 4.07 | 0.46 | 2.9 |
| 5/2/2015 3:54:04 | 53.15 | 49.55 | 61 | 3.52 | 0.47 | 3.4 |
| 5/2/2015 3:54:07 | 53.33 | 49.73 | 58 | 3.58 | 0.47 | 3.2 |

## M2 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:51:18

**End Date:**
5/2/2015 3:55:38

**Operator Note:**
'3.6 3.8b Auto Complete'

**Northing:**
359,105.10

**Easting:**
239,965.10

**Tide (feet):**
3.60



## Hole: M20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:19:05 | 37.07 | 30.07 | 1,067 | 0.34 | 0.39 | 58.4 |
| 5/2/2015 0:19:05 | 37.40 | 30.40 | 1,067 | 0.34 | 0.39 | 58.4 |
| 5/2/2015 0:19:05 | 37.73 | 30.73 | 1,067 | 0.33 | 0.38 | 58.4 |
| 5/2/2015 0:19:06 | 38.06 | 31.06 | 1,064 | 0.35 | 0.39 | 58.2 |
| 5/2/2015 0:19:06 | 38.39 | 31.39 | 1,064 | 0.35 | 0.39 | 58.2 |
| 5/2/2015 0:19:06 | 38.71 | 31.71 | 1,055 | 0.34 | 0.38 | 57.7 |
| 5/2/2015 0:19:07 | 39.04 | 32.04 | 1,055 | 0.34 | 0.38 | 57.7 |
| 5/2/2015 0:19:07 | 39.37 | 32.37 | 1,055 | 0.34 | 0.38 | 57.7 |
| 5/2/2015 0:19:07 | 39.70 | 32.70 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 0:19:08 | 40.03 | 33.03 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 0:19:08 | 40.35 | 33.35 | 1,059 | 0.34 | 0.38 | 57.9 |
| 5/2/2015 0:19:08 | 40.68 | 33.68 | 1,068 | 0.34 | 0.39 | 58.4 |
| 5/2/2015 0:19:09 | 41.01 | 34.01 | 1,068 | 0.34 | 0.39 | 58.4 |
| 5/2/2015 0:19:09 | 41.34 | 34.34 | 1,068 | 0.34 | 0.36 | 58.4 |
| 5/2/2015 0:19:09 | 41.67 | 34.67 | 1,089 | 0.34 | 0.38 | 59.6 |
| 5/2/2015 0:19:10 | 41.99 | 34.99 | 1,089 | 0.34 | 0.38 | 59.6 |
| 5/2/2015 0:19:10 | 42.32 | 35.32 | 1,067 | 0.34 | 0.38 | 58.3 |
| 5/2/2015 0:19:10 | 42.65 | 35.65 | 1,067 | 0.34 | 0.38 | 58.3 |
| 5/2/2015 0:19:10 | 42.98 | 35.98 | 1,082 | 0.35 | 0.38 | 59.1 |
| 5/2/2015 0:19:11 | 43.31 | 36.31 | 1,075 | 0.34 | 0.38 | 58.8 |
| 5/2/2015 0:19:11 | 43.64 | 36.64 | 1,075 | 0.34 | 0.38 | 58.8 |
| 5/2/2015 0:19:12 | 43.96 | 36.96 | 1,082 | 0.34 | 0.38 | 59.1 |
| 5/2/2015 0:19:12 | 44.29 | 37.29 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/2/2015 0:19:13 | 44.62 | 37.62 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/2/2015 0:19:13 | 44.95 | 37.95 | 1,084 | 0.34 | 0.38 | 59.3 |
| 5/2/2015 0:19:13 | 45.28 | 38.28 | 1,075 | 0.33 | 0.39 | 58.8 |
| 5/2/2015 0:19:14 | 45.60 | 38.60 | 1,075 | 0.33 | 0.39 | 58.8 |
| 5/2/2015 0:19:14 | 45.93 | 38.93 | 1,072 | 0.34 | 0.39 | 58.6 |
| 5/2/2015 0:19:14 | 46.26 | 39.26 | 1,072 | 0.34 | 0.39 | 58.6 |
| 5/2/2015 0:19:14 | 46.59 | 39.59 | 1,069 | 0.33 | 0.39 | 58.4 |
| 5/2/2015 0:19:15 | 46.92 | 39.92 | 1,081 | 0.12 | 0.38 | 59.1 |
| 5/2/2015 0:19:15 | 47.24 | 40.24 | 1,081 | 0.12 | 0.38 | 59.1 |
| 5/2/2015 0:19:15 | 47.57 | 40.57 | 1,084 | 0.34 | 0.38 | 59.3 |
| 5/2/2015 0:19:16 | 47.90 | 40.90 | 1,081 | 0.33 | 0.39 | 59.1 |
| 5/2/2015 0:19:16 | 48.23 | 41.23 | 1,081 | 0.33 | 0.39 | 59.1 |
| 5/2/2015 0:19:16 | 48.56 | 41.56 | 1,081 | 0.34 | 0.38 | 59.1 |
| 5/2/2015 0:19:17 | 48.88 | 41.88 | 1,091 | 0.34 | 0.39 | 59.7 |
| 5/2/2015 0:19:17 | 49.21 | 42.21 | 1,091 | 0.34 | 0.39 | 59.7 |
| 5/2/2015 0:19:17 | 49.54 | 42.54 | 1,078 | 0.32 | 0.38 | 59.0 |
| 5/2/2015 0:19:18 | 49.87 | 42.87 | 1,078 | 0.32 | 0.38 | 59.0 |
| 5/2/2015 0:19:18 | 50.20 | 43.20 | 1,072 | 0.33 | 0.38 | 58.6 |
| 5/2/2015 0:19:18 | 50.53 | 43.53 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/2/2015 0:19:19 | 50.85 | 43.85 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/2/2015 0:19:19 | 51.18 | 44.18 | 1,075 | 0.34 | 0.38 | 58.8 |
| 5/2/2015 0:19:19 | 51.51 | 44.51 | 1,069 | 0.34 | 0.39 | 58.5 |
| 5/2/2015 0:19:20 | 51.84 | 44.84 | 1,069 | 0.34 | 0.39 | 58.5 |
| 5/2/2015 0:19:20 | 52.17 | 45.17 | 1,069 | 0.33 | 0.38 | 58.5 |
| 5/2/2015 0:19:20 | 52.49 | 45.49 | 1,066 | 0.34 | 0.38 | 58.3 |
| 5/2/2015 0:19:21 | 52.82 | 45.82 | 1,066 | 0.34 | 0.38 | 58.3 |
| 5/2/2015 0:19:21 | 53.15 | 46.15 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/2/2015 0:19:21 | 53.48 | 46.48 | 1,067 | 0.33 | 0.38 | 58.3 |
| 5/2/2015 0:19:22 | 53.81 | 46.81 | 1,067 | 0.33 | 0.38 | 58.3 |
| 5/2/2015 0:19:22 | 54.13 | 47.13 | 1,058 | 0.33 | 0.39 | 57.8 |
| 5/2/2015 0:19:23 | 54.46 | 47.46 | 1,049 | 0.33 | 0.39 | 57.4 |
| 5/2/2015 0:19:23 | 54.79 | 47.79 | 1,049 | 0.33 | 0.39 | 57.4 |
| 5/2/2015 0:19:23 | 55.12 | 48.12 | 1,038 | 0.33 | 0.39 | 56.8 |
| 5/2/2015 0:19:24 | 55.45 | 48.45 | 1,026 | 0.33 | 0.40 | 56.1 |
| 5/2/2015 0:19:24 | 55.77 | 48.77 | 1,026 | 0.33 | 0.40 | 56.1 |
| 5/2/2015 0:19:24 | 56.10 | 49.10 | 1,012 | 0.33 | 0.39 | 55.3 |
| 5/2/2015 0:19:25 | 56.43 | 49.43 | 994 | 0.33 | 0.40 | 54.4 |
| 5/2/2015 0:19:25 | 56.76 | 49.76 | 994 | 0.33 | 0.40 | 54.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:19:25 | 57.09 | 50.09 | 986 | 0.31 | 0.42 | 53.9 |
| 5/2/2015 | 0:19:36 | 57.41 | 50.41 | 63 | 3.78 | 0.47 | 3.5 |
| 5/2/2015 | 0:19:41 | 57.74 | 50.74 | 61 | 3.60 | 0.47 | 3.3 |
| 5/2/2015 | 0:19:47 | 58.07 | 51.07 | 63 | 3.82 | 0.47 | 3.4 |
| 5/2/2015 | 0:19:53 | 58.40 | 51.40 | 66 | 4.02 | 0.47 | 3.6 |
| 5/2/2015 | 0:19:56 | 58.60 | 51.60 | 67 | 4.18 | 0.46 | 3.7 |

## M20 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:17:21

**End Date:**
5/2/2015 0:21:37

**Operator Note:**
'7 7.1b Auto Complete'

**Northing:**
359,270.20

**Easting:**
240,381.20

**Tide (feet):**
7.00



## Hole: M21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:17:21 | 37.07 | 30.07 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:17:22 | 37.40 | 30.40 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:17:22 | 37.73 | 30.73 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:22 | 38.06 | 31.06 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:17:23 | 38.39 | 31.39 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:17:23 | 38.71 | 31.71 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 0:17:24 | 39.04 | 32.04 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:17:24 | 39.37 | 32.37 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:17:24 | 39.70 | 32.70 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:17:25 | 40.03 | 33.03 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:25 | 40.35 | 33.35 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:25 | 40.68 | 33.68 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:26 | 41.01 | 34.01 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:26 | 41.34 | 34.34 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:17:27 | 41.67 | 34.67 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:17:27 | 41.99 | 34.99 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:27 | 42.32 | 35.32 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:28 | 42.65 | 35.65 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:28 | 42.98 | 35.98 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:28 | 43.31 | 36.31 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:17:29 | 43.64 | 36.64 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:17:29 | 43.96 | 36.96 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:17:29 | 44.29 | 37.29 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 0:17:30 | 44.62 | 37.62 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 0:17:30 | 44.95 | 37.95 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:30 | 45.28 | 38.28 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:17:31 | 45.60 | 38.60 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:17:31 | 45.93 | 38.93 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:31 | 46.26 | 39.26 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 0:17:32 | 46.59 | 39.59 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 0:17:32 | 46.92 | 39.92 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:32 | 47.24 | 40.24 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:33 | 47.57 | 40.57 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:33 | 47.90 | 40.90 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:17:33 | 48.23 | 41.23 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:17:34 | 48.56 | 41.56 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:35 | 48.88 | 41.88 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:34 | 49.21 | 42.21 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:35 | 49.54 | 42.54 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:36 | 49.87 | 42.87 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:36 | 50.20 | 43.20 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:17:36 | 50.53 | 43.53 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:17:37 | 50.85 | 43.85 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:17:37 | 51.18 | 44.18 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:17:37 | 51.51 | 44.51 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 0:17:38 | 51.84 | 44.84 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 0:17:38 | 52.17 | 45.17 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 0:17:38 | 52.49 | 45.49 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:17:39 | 52.82 | 45.82 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:17:39 | 53.15 | 46.15 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 0:17:39 | 53.48 | 46.48 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:17:40 | 53.81 | 46.81 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:17:40 | 54.13 | 47.13 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:17:40 | 54.46 | 47.46 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 0:17:41 | 54.79 | 47.79 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 0:17:41 | 55.12 | 48.12 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 0:17:41 | 55.45 | 48.45 | 963 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 0:17:42 | 55.77 | 48.77 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 0:17:42 | 56.10 | 49.10 | 933 | 1.14 | 0.29 | 51.0 |
| 5/2/2015 0:17:43 | 56.43 | 49.43 | 933 | 1.14 | 0.29 | 51.0 |
| 5/2/2015 0:17:43 | 56.76 | 49.76 | 916 | 1.14 | 0.29 | 50.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:17:45 | 57.09 | 50.09 | 393 | 1.14 | 0.29 | 21.5 |
| 5/2/2015 | 0:18:00 | 57.41 | 50.41 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 0:18:02 | 57.74 | 50.74 | 98 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 | 0:18:02 | 58.07 | 51.07 | 210 | 1.14 | 0.29 | 11.5 |
| 5/2/2015 | 0:18:03 | 58.40 | 51.40 | 340 | 1.14 | 0.29 | 18.6 |
| 5/2/2015 | 0:18:15 | 58.73 | 51.73 | 85 | 1.14 | 0.29 | 4.7 |
| 5/2/2015 | 0:18:16 | 59.06 | 52.06 | 145 | 1.14 | 0.29 | 7.9 |
| 5/2/2015 | 0:18:17 | 59.38 | 52.38 | 248 | 1.14 | 0.29 | 13.5 |
| 5/2/2015 | 0:18:17 | 59.71 | 52.71 | 321 | 1.14 | 0.29 | 17.6 |
| 5/2/2015 | 0:18:35 | 60.04 | 53.04 | 77 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 | 0:18:36 | 60.37 | 53.37 | 235 | 1.14 | 0.29 | 12.8 |
| 5/2/2015 | 0:18:36 | 60.70 | 53.70 | 266 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 | 0:18:38 | 61.02 | 54.02 | 303 | 1.14 | 0.29 | 16.6 |
| 5/2/2015 | 0:18:39 | 61.35 | 54.35 | 331 | 1.14 | 0.29 | 18.1 |
| 5/2/2015 | 0:18:44 | 61.68 | 54.68 | 64 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 | 0:18:49 | 62.01 | 55.01 | 76 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 | 0:18:51 | 62.14 | 55.14 | 78 | 1.14 | 0.29 | 4.3 |

## M21 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:16:23

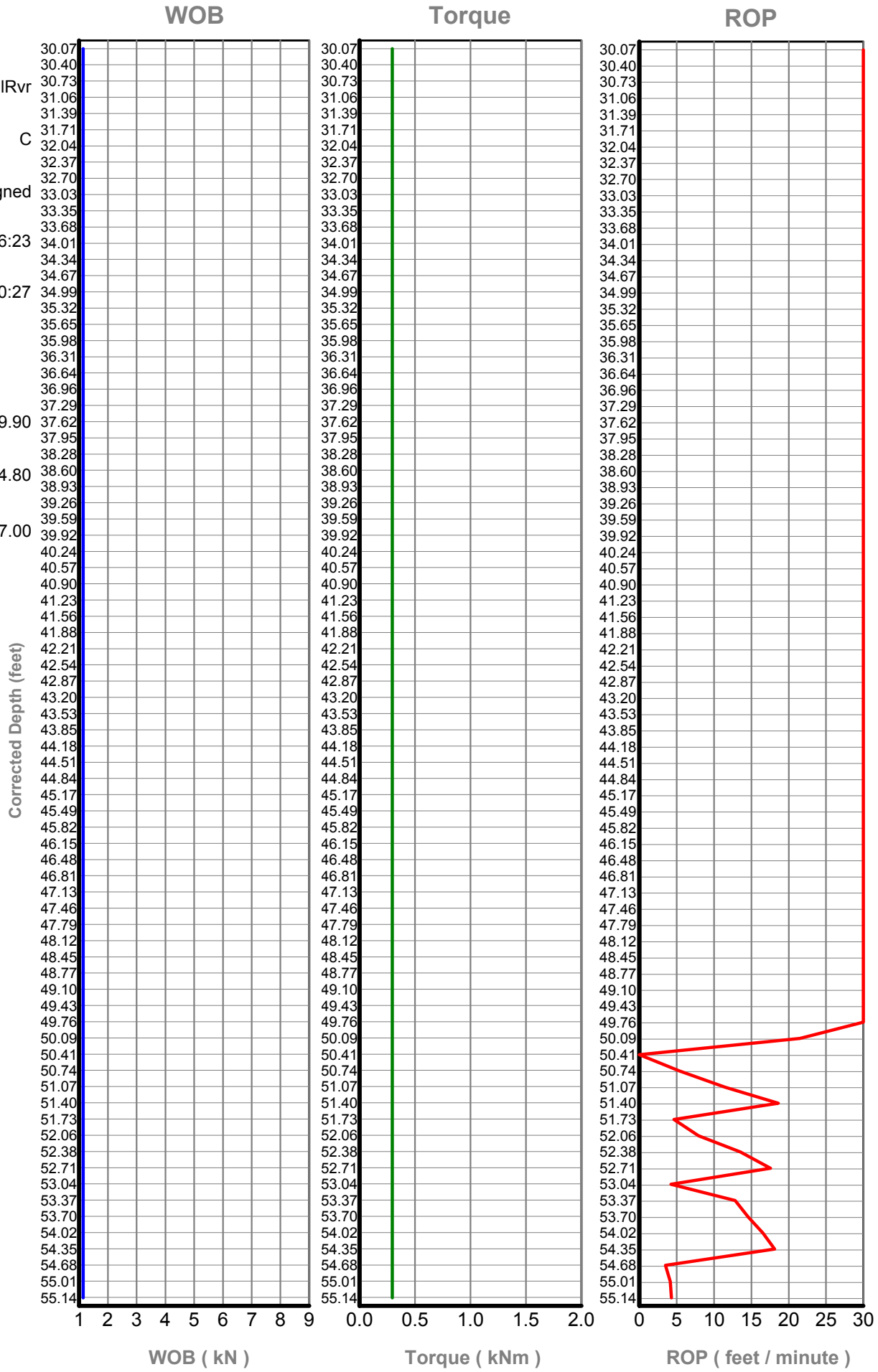
**End Date:**
5/2/2015 0:20:27

**Operator Note:**
'7 7.1 c Auto Complete'

**Northing:**
359,309.90

**Easting:**
240,444.80

**Tide (feet):**
7.00



## Hole: M22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:20:10 | 37.07 | 30.07 | 1,217 | 1.80 | 0.25 | 66.6 |
| 5/1/2015 23:20:11 | 37.40 | 30.40 | 1,217 | 1.80 | 0.25 | 66.6 |
| 5/1/2015 23:20:11 | 37.73 | 30.73 | 1,217 | 1.79 | 0.24 | 66.6 |
| 5/1/2015 23:20:11 | 38.06 | 31.06 | 1,210 | 1.81 | 0.25 | 66.1 |
| 5/1/2015 23:20:12 | 38.39 | 31.39 | 1,210 | 1.81 | 0.25 | 66.1 |
| 5/1/2015 23:20:12 | 38.71 | 31.71 | 1,216 | 1.81 | 0.24 | 66.5 |
| 5/1/2015 23:20:12 | 39.04 | 32.04 | 1,216 | 1.81 | 0.24 | 66.5 |
| 5/1/2015 23:20:12 | 39.37 | 32.37 | 1,212 | 1.81 | 0.25 | 66.3 |
| 5/1/2015 23:20:13 | 39.70 | 32.70 | 1,212 | 1.81 | 0.25 | 66.3 |
| 5/1/2015 23:20:13 | 40.03 | 33.03 | 1,220 | 1.40 | 0.26 | 66.7 |
| 5/1/2015 23:20:13 | 40.35 | 33.35 | 1,161 | 1.43 | 0.26 | 63.5 |
| 5/1/2015 23:20:14 | 40.68 | 33.68 | 1,106 | 0.90 | 0.27 | 60.5 |
| 5/1/2015 23:20:15 | 41.01 | 34.01 | 771 | 1.22 | 0.26 | 42.1 |
| 5/1/2015 23:20:15 | 41.34 | 34.34 | 652 | 1.17 | 0.26 | 35.6 |
| 5/1/2015 23:20:16 | 41.67 | 34.67 | 600 | 1.21 | 0.26 | 32.8 |
| 5/1/2015 23:20:17 | 41.99 | 34.99 | 543 | 1.22 | 0.26 | 29.7 |
| 5/1/2015 23:20:17 | 42.32 | 35.32 | 642 | 1.21 | 0.26 | 35.1 |
| 5/1/2015 23:20:18 | 42.65 | 35.65 | 649 | 1.23 | 0.26 | 35.5 |
| 5/1/2015 23:20:18 | 42.98 | 35.98 | 653 | 1.22 | 0.26 | 35.7 |
| 5/1/2015 23:20:19 | 43.31 | 36.31 | 653 | 1.21 | 0.26 | 35.7 |
| 5/1/2015 23:20:19 | 43.64 | 36.64 | 656 | 1.22 | 0.26 | 35.9 |
| 5/1/2015 23:20:20 | 43.96 | 36.96 | 653 | 1.21 | 0.26 | 35.7 |
| 5/1/2015 23:20:20 | 44.29 | 37.29 | 653 | 1.21 | 0.27 | 35.7 |
| 5/1/2015 23:20:21 | 44.62 | 37.62 | 653 | 1.22 | 0.26 | 35.7 |
| 5/1/2015 23:20:21 | 44.95 | 37.95 | 650 | 1.22 | 0.26 | 35.6 |
| 5/1/2015 23:20:22 | 45.28 | 38.28 | 648 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:20:22 | 45.60 | 38.60 | 648 | 1.22 | 0.27 | 35.4 |
| 5/1/2015 23:20:23 | 45.93 | 38.93 | 648 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 23:20:23 | 46.26 | 39.26 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:20:24 | 46.59 | 39.59 | 647 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:20:25 | 46.92 | 39.92 | 647 | 1.23 | 0.26 | 35.4 |
| 5/1/2015 23:20:25 | 47.24 | 40.24 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:20:26 | 47.57 | 40.57 | 641 | 1.21 | 0.26 | 35.0 |
| 5/1/2015 23:20:27 | 47.90 | 40.90 | 648 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 23:20:27 | 48.23 | 41.23 | 645 | 1.21 | 0.26 | 35.3 |
| 5/1/2015 23:20:28 | 48.56 | 41.56 | 642 | 1.21 | 0.26 | 35.1 |
| 5/1/2015 23:20:28 | 48.88 | 41.88 | 648 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:20:29 | 49.21 | 42.21 | 650 | 1.21 | 0.26 | 35.6 |
| 5/1/2015 23:20:29 | 49.54 | 42.54 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:20:30 | 49.87 | 42.87 | 647 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 23:20:30 | 50.20 | 43.20 | 644 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:20:31 | 50.53 | 43.53 | 645 | 1.23 | 0.26 | 35.2 |
| 5/1/2015 23:20:31 | 50.85 | 43.85 | 642 | 1.18 | 0.20 | 35.1 |
| 5/1/2015 23:20:32 | 51.18 | 44.18 | 645 | 1.12 | 0.20 | 35.3 |
| 5/1/2015 23:20:32 | 51.51 | 44.51 | 650 | 1.11 | 0.20 | 35.6 |
| 5/1/2015 23:20:33 | 51.84 | 44.84 | 665 | 1.11 | 0.20 | 36.3 |
| 5/1/2015 23:20:33 | 52.17 | 45.17 | 671 | 1.11 | 0.20 | 36.7 |
| 5/1/2015 23:20:34 | 52.49 | 45.49 | 675 | 1.10 | 0.20 | 36.9 |
| 5/1/2015 23:20:34 | 52.82 | 45.82 | 681 | 1.11 | 0.20 | 37.3 |
| 5/1/2015 23:20:35 | 53.15 | 46.15 | 680 | 1.11 | 0.20 | 37.2 |
| 5/1/2015 23:20:35 | 53.48 | 46.48 | 680 | 1.11 | 0.20 | 37.2 |
| 5/1/2015 23:20:36 | 53.81 | 46.81 | 676 | 1.09 | 0.20 | 37.0 |
| 5/1/2015 23:20:37 | 54.13 | 47.13 | 662 | 1.10 | 0.20 | 36.2 |
| 5/1/2015 23:20:38 | 54.46 | 47.46 | 662 | 1.10 | 0.20 | 36.2 |
| 5/1/2015 23:20:38 | 54.79 | 47.79 | 655 | 1.11 | 0.20 | 35.8 |
| 5/1/2015 23:20:39 | 55.12 | 48.12 | 641 | 1.11 | 0.20 | 35.0 |
| 5/1/2015 23:20:39 | 55.45 | 48.45 | 647 | 1.11 | 0.20 | 35.4 |
| 5/1/2015 23:20:40 | 55.77 | 48.77 | 635 | 1.12 | 0.20 | 34.7 |
| 5/1/2015 23:20:40 | 56.10 | 49.10 | 608 | 1.11 | 0.20 | 33.3 |
| 5/1/2015 23:20:41 | 56.43 | 49.43 | 608 | 1.12 | 0.20 | 33.3 |
| 5/1/2015 23:20:41 | 56.76 | 49.76 | 612 | 1.11 | 0.20 | 33.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 23:21:05 | 57.09 | 50.09 | 0 | 1.15 | 1.08 | 0.0 |
| 5/1/2015 23:21:06 | 57.41 | 50.41 | 105 | 1.14 | 0.95 | 5.7 |
| 5/1/2015 23:21:07 | 57.74 | 50.74 | 279 | 1.15 | 0.88 | 15.3 |
| 5/1/2015 23:21:07 | 58.07 | 51.07 | 379 | 1.15 | 0.90 | 20.7 |
| 5/1/2015 23:21:09 | 58.40 | 51.40 | 416 | 1.17 | 1.05 | 22.8 |
| 5/1/2015 23:21:11 | 58.73 | 51.73 | 244 | 1.15 | 0.86 | 13.3 |
| 5/1/2015 23:21:12 | 59.06 | 52.06 | 222 | 1.18 | 1.01 | 12.1 |
| 5/1/2015 23:21:14 | 59.38 | 52.38 | 155 | 1.16 | 0.86 | 8.5 |
| 5/1/2015 23:21:20 | 59.71 | 52.71 | 52 | 1.95 | 1.24 | 2.8 |
| 5/1/2015 23:21:23 | 60.04 | 53.04 | 103 | 1.15 | 1.15 | 5.6 |
| 5/1/2015 23:21:27 | 60.37 | 53.37 | 90 | 1.11 | 1.06 | 4.9 |
| 5/1/2015 23:21:38 | 60.70 | 53.70 | 57 | 1.14 | 1.15 | 3.1 |
| 5/1/2015 23:21:43 | 61.02 | 54.02 | 98 | 1.12 | 1.05 | 5.4 |
| 5/1/2015 23:21:45 | 61.35 | 54.35 | 133 | 1.12 | 1.00 | 7.3 |
| 5/1/2015 23:21:48 | 61.68 | 54.68 | 101 | 1.10 | 0.98 | 5.5 |
| 5/1/2015 23:21:51 | 61.89 | 54.89 | 81 | 1.17 | 1.23 | 4.4 |

## M22 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:18:07

**End Date:**
5/1/2015 23:23:28

**Operator Note:**
'7 6.9 a Auto Complete'

**Northing:**
359,361.50

**Easting:**
240,505.54

**Tide (feet):**
7.00



## Hole: M23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:21:02 | 37.07 | 30.07 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:21:02 | 37.40 | 30.40 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:21:02 | 37.73 | 30.73 | 1,119 | 0.32 | 0.38 | 61.2 |
| 5/1/2015 23:21:03 | 38.06 | 31.06 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 23:21:04 | 38.39 | 31.39 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 23:21:04 | 38.71 | 31.71 | 1,131 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:04 | 39.04 | 32.04 | 1,131 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:04 | 39.37 | 32.37 | 1,137 | 0.31 | 0.37 | 62.2 |
| 5/1/2015 23:21:05 | 39.70 | 32.70 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:05 | 40.03 | 33.03 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:05 | 40.35 | 33.35 | 1,140 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:06 | 40.68 | 33.68 | 1,140 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:06 | 41.01 | 34.01 | 1,140 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:06 | 41.34 | 34.34 | 1,144 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 23:21:07 | 41.67 | 34.67 | 1,144 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 23:21:07 | 41.99 | 34.99 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:07 | 42.32 | 35.32 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:21:07 | 42.65 | 35.65 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/1/2015 23:21:08 | 42.98 | 35.98 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:08 | 43.31 | 36.31 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:08 | 43.64 | 36.64 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:09 | 43.96 | 36.96 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:09 | 44.29 | 37.29 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 23:21:09 | 44.62 | 37.62 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 23:21:10 | 44.95 | 37.95 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/1/2015 23:21:10 | 45.28 | 38.28 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:10 | 45.60 | 38.60 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:10 | 45.93 | 38.93 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:11 | 46.26 | 39.26 | 1,129 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:21:11 | 46.59 | 39.59 | 1,129 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:21:11 | 46.92 | 39.92 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:12 | 47.24 | 40.24 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:12 | 47.57 | 40.57 | 1,142 | 0.32 | 0.37 | 62.4 |
| 5/1/2015 23:21:12 | 47.90 | 40.90 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:13 | 48.23 | 41.23 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:13 | 48.56 | 41.56 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:14 | 48.88 | 41.88 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/1/2015 23:21:14 | 49.21 | 42.21 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/1/2015 23:21:14 | 49.54 | 42.54 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:15 | 49.87 | 42.87 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:15 | 50.20 | 43.20 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 23:21:15 | 50.53 | 43.53 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 23:21:15 | 50.85 | 43.85 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 23:21:16 | 51.18 | 44.18 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:16 | 51.51 | 44.51 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:16 | 51.84 | 44.84 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 23:21:17 | 52.17 | 45.17 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 23:21:17 | 52.49 | 45.49 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 23:21:17 | 52.82 | 45.82 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:21:18 | 53.15 | 46.15 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:21:18 | 53.48 | 46.48 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:18 | 53.81 | 46.81 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/1/2015 23:21:18 | 54.13 | 47.13 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:21:19 | 54.46 | 47.46 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 23:21:19 | 54.79 | 47.79 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/1/2015 23:21:19 | 55.12 | 48.12 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 23:21:20 | 55.45 | 48.45 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 23:21:20 | 55.77 | 48.77 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 23:21:20 | 56.10 | 49.10 | 1,101 | 0.32 | 0.39 | 60.2 |
| 5/1/2015 23:21:21 | 56.43 | 49.43 | 1,101 | 0.32 | 0.39 | 60.2 |
| 5/1/2015 23:21:21 | 56.76 | 49.76 | 1,087 | 0.32 | 0.39 | 59.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:21:21 | 57.09 | 50.09 | 1,070 | 0.32 | 0.39 | 58.5 |
| 5/1/2015 | 23:21:22 | 57.41 | 50.41 | 1,070 | 0.32 | 0.39 | 58.5 |
| 5/1/2015 | 23:21:22 | 57.74 | 50.74 | 1,052 | 0.32 | 0.39 | 57.6 |
| 5/1/2015 | 23:21:22 | 58.07 | 51.07 | 1,032 | 0.31 | 0.39 | 56.4 |
| 5/1/2015 | 23:21:23 | 58.40 | 51.40 | 1,018 | 0.31 | 0.39 | 55.7 |
| 5/1/2015 | 23:21:24 | 58.73 | 51.73 | 1,018 | 0.31 | 0.39 | 55.7 |
| 5/1/2015 | 23:21:23 | 59.06 | 52.06 | 994 | 0.32 | 0.39 | 54.4 |
| 5/1/2015 | 23:21:24 | 59.38 | 52.38 | 989 | 0.31 | 0.40 | 54.1 |
| 5/1/2015 | 23:21:25 | 59.71 | 52.71 | 989 | 0.31 | 0.40 | 54.1 |
| 5/1/2015 | 23:21:30 | 60.04 | 53.04 | 43 | 3.81 | 0.46 | 2.3 |
| 5/1/2015 | 23:21:31 | 60.37 | 53.37 | 148 | 4.45 | 0.44 | 8.1 |
| 5/1/2015 | 23:21:32 | 60.70 | 53.70 | 281 | 4.06 | 0.46 | 15.3 |
| 5/1/2015 | 23:21:34 | 61.02 | 54.02 | 195 | 3.37 | 0.43 | 10.7 |
| 5/1/2015 | 23:21:36 | 61.35 | 54.35 | 221 | 4.17 | 0.47 | 12.1 |
| 5/1/2015 | 23:21:37 | 61.68 | 54.68 | 267 | 3.40 | 0.44 | 14.6 |
| 5/1/2015 | 23:21:37 | 61.87 | 54.87 | 267 | 3.40 | 0.44 | 14.6 |

## M23 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:19:24

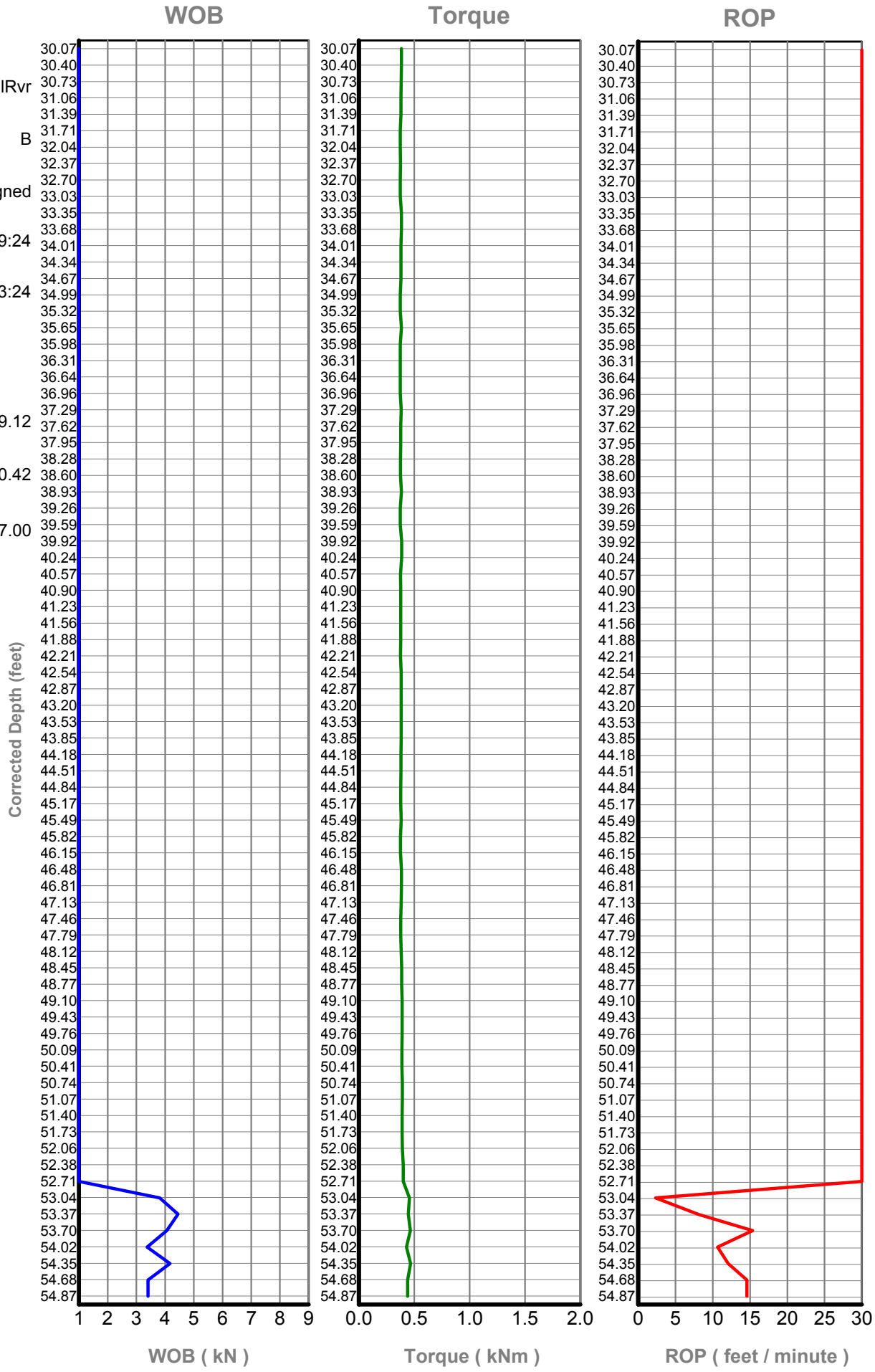
**End Date:**
5/1/2015 23:23:24

**Operator Note:**
'7 6.9b Auto Complete'

**Northing:**
359,399.12

**Easting:**
240,570.42

**Tide (feet):**
7.00



## Hole: M24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:19:21 | 37.07 | 30.07 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:22 | 37.40 | 30.40 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 23:19:22 | 37.73 | 30.73 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 23:19:22 | 38.06 | 31.06 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:23 | 38.39 | 31.39 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:23 | 38.71 | 31.71 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:23 | 39.04 | 32.04 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:19:24 | 39.37 | 32.37 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:24 | 39.70 | 32.70 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:24 | 40.03 | 33.03 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:25 | 40.35 | 33.35 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:25 | 40.68 | 33.68 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:25 | 41.01 | 34.01 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:26 | 41.34 | 34.34 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 23:19:26 | 41.67 | 34.67 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 23:19:27 | 41.99 | 34.99 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:27 | 42.32 | 35.32 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:28 | 42.65 | 35.65 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:28 | 42.98 | 35.98 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:28 | 43.31 | 36.31 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:29 | 43.64 | 36.64 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 23:19:29 | 43.96 | 36.96 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:29 | 44.29 | 37.29 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:30 | 44.62 | 37.62 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:30 | 44.95 | 37.95 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:30 | 45.28 | 38.28 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 23:19:31 | 45.60 | 38.60 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 23:19:31 | 45.93 | 38.93 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 23:19:31 | 46.26 | 39.26 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 23:19:32 | 46.59 | 39.59 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 23:19:32 | 46.92 | 39.92 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 23:19:32 | 47.24 | 40.24 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 23:19:33 | 47.57 | 40.57 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:19:33 | 47.90 | 40.90 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:19:33 | 48.23 | 41.23 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:34 | 48.56 | 41.56 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:34 | 48.88 | 41.88 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:34 | 49.21 | 42.21 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:35 | 49.54 | 42.54 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:35 | 49.87 | 42.87 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 23:19:35 | 50.20 | 43.20 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 23:19:36 | 50.53 | 43.53 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:36 | 50.85 | 43.85 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:37 | 51.18 | 44.18 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 23:19:37 | 51.51 | 44.51 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 23:19:37 | 51.84 | 44.84 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:19:38 | 52.17 | 45.17 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 23:19:38 | 52.49 | 45.49 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 23:19:39 | 52.82 | 45.82 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 23:19:39 | 53.15 | 46.15 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 23:19:39 | 53.48 | 46.48 | 998 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 23:19:40 | 53.81 | 46.81 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 23:19:40 | 54.13 | 47.13 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 23:19:40 | 54.46 | 47.46 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 23:19:41 | 54.79 | 47.79 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 23:19:41 | 55.12 | 48.12 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 23:19:42 | 55.45 | 48.45 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 23:19:42 | 55.77 | 48.77 | 962 | 1.14 | 0.29 | 52.6 |
| 5/1/2015 23:19:42 | 56.10 | 49.10 | 948 | 1.14 | 0.29 | 51.8 |
| 5/1/2015 23:19:43 | 56.43 | 49.43 | 931 | 1.14 | 0.29 | 50.9 |
| 5/1/2015 23:19:43 | 56.76 | 49.76 | 931 | 1.14 | 0.29 | 50.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:19:43 | 57.09 | 50.09 | 922 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 | 23:19:44 | 57.41 | 50.41 | 910 | 1.14 | 0.29 | 49.8 |
| 5/1/2015 | 23:19:50 | 57.74 | 50.74 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 23:19:53 | 58.07 | 51.07 | 119 | 1.14 | 0.29 | 6.5 |
| 5/1/2015 | 23:19:56 | 58.40 | 51.40 | 102 | 1.14 | 0.29 | 5.6 |
| 5/1/2015 | 23:19:59 | 58.73 | 51.73 | 134 | 1.14 | 0.29 | 7.3 |
| 5/1/2015 | 23:20:01 | 59.06 | 52.06 | 189 | 1.14 | 0.29 | 10.4 |
| 5/1/2015 | 23:20:05 | 59.38 | 52.38 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 | 23:20:08 | 59.71 | 52.71 | 111 | 1.14 | 0.29 | 6.1 |
| 5/1/2015 | 23:20:13 | 60.04 | 53.04 | 67 | 1.14 | 0.29 | 3.6 |
| 5/1/2015 | 23:20:18 | 60.37 | 53.37 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 23:20:22 | 60.70 | 53.70 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 | 23:20:24 | 61.02 | 54.02 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 | 23:20:25 | 61.35 | 54.35 | 187 | 1.14 | 0.29 | 10.3 |
| 5/1/2015 | 23:20:29 | 61.68 | 54.68 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 | 23:20:34 | 61.89 | 54.89 | 43 | 1.14 | 0.29 | 2.4 |

## M24 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:18:20

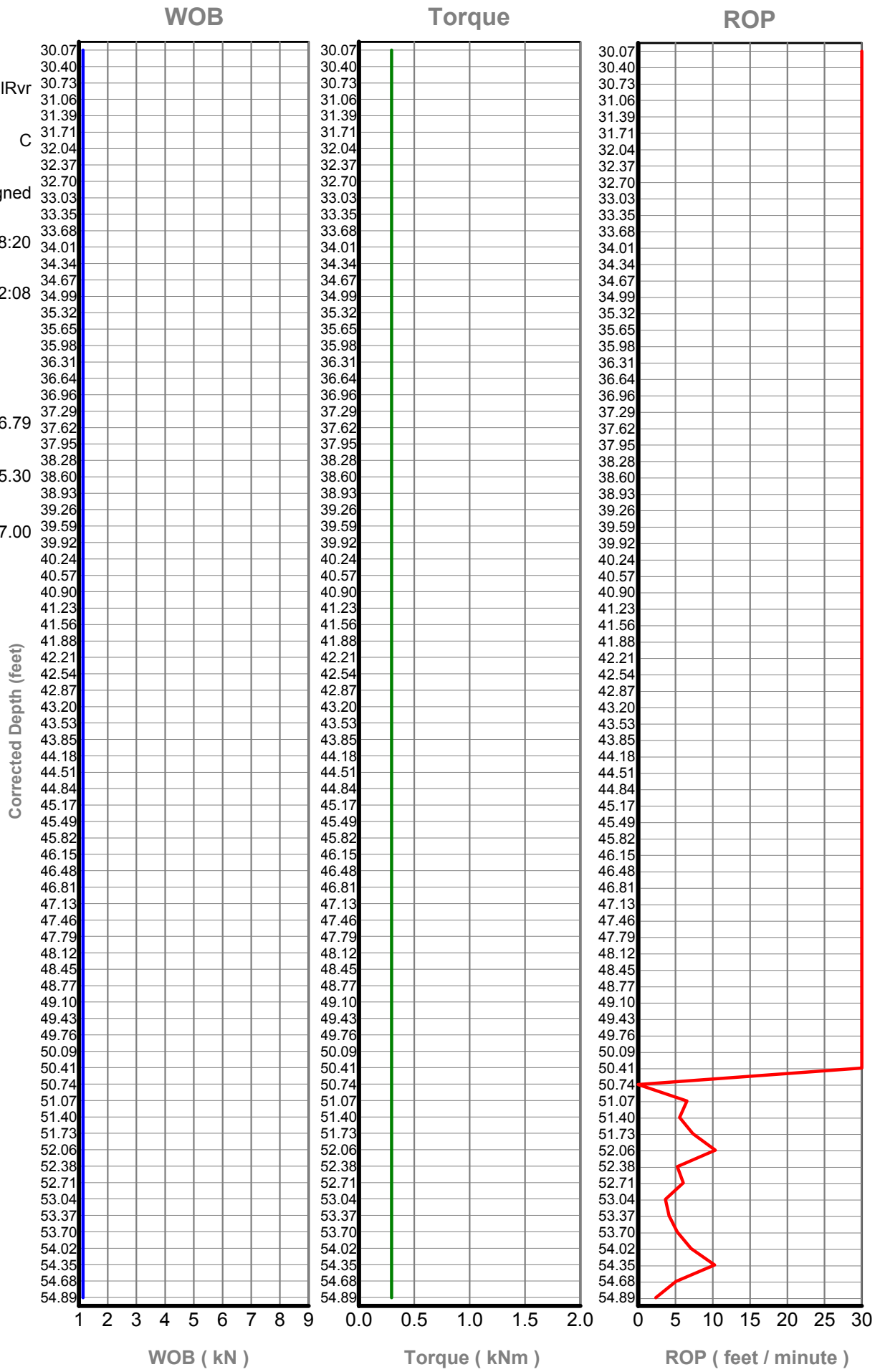
**End Date:**
5/1/2015 23:22:08

**Operator Note:**
'7 6.9 c Auto Complete'

**Northing:**
359,436.79

**Easting:**
240,635.30

**Tide (feet):**
7.00



## Hole: M25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:28:45 | 33.14 | 30.04 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:45 | 33.46 | 30.36 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:46 | 33.79 | 30.69 | 800 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:28:46 | 34.12 | 31.02 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:47 | 34.45 | 31.35 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:47 | 34.78 | 31.68 | 792 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:28:48 | 35.11 | 32.01 | 792 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:28:48 | 35.43 | 32.33 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:48 | 35.76 | 32.66 | 800 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:28:49 | 36.09 | 32.99 | 800 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:28:49 | 36.42 | 33.32 | 800 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:28:50 | 36.75 | 33.65 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:50 | 37.07 | 33.97 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:51 | 37.40 | 34.30 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:51 | 37.73 | 34.63 | 798 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:51 | 38.06 | 34.96 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:52 | 38.39 | 35.29 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 4:28:52 | 38.71 | 35.61 | 800 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:28:53 | 39.04 | 35.94 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:53 | 39.37 | 36.27 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:28:54 | 39.70 | 36.60 | 794 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:28:54 | 40.03 | 36.93 | 794 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:28:54 | 40.35 | 37.25 | 794 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:28:55 | 40.68 | 37.58 | 791 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:28:55 | 41.01 | 37.91 | 794 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:28:56 | 41.34 | 38.24 | 794 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:28:57 | 41.67 | 38.57 | 785 | 0.54 | 0.17 | 42.9 |
| 5/2/2015 4:28:57 | 41.99 | 38.89 | 785 | 0.54 | 0.17 | 42.9 |
| 5/2/2015 4:28:58 | 42.32 | 39.22 | 785 | 0.54 | 0.17 | 42.9 |
| 5/2/2015 4:28:58 | 42.65 | 39.55 | 787 | 0.54 | 0.17 | 43.0 |
| 5/2/2015 4:28:58 | 42.98 | 39.88 | 790 | 0.54 | 0.17 | 43.2 |
| 5/2/2015 4:28:59 | 43.31 | 40.21 | 790 | 0.54 | 0.17 | 43.2 |
| 5/2/2015 4:28:59 | 43.64 | 40.54 | 792 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:29:00 | 43.96 | 40.86 | 799 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:29:00 | 44.29 | 41.19 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 4:29:01 | 44.62 | 41.52 | 799 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:29:01 | 44.95 | 41.85 | 799 | 0.54 | 0.17 | 43.7 |
| 5/2/2015 4:29:01 | 45.28 | 42.18 | 791 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:29:02 | 45.60 | 42.50 | 782 | 0.54 | 0.17 | 42.8 |
| 5/2/2015 4:29:02 | 45.93 | 42.83 | 792 | 0.54 | 0.17 | 43.3 |
| 5/2/2015 4:29:03 | 46.26 | 43.16 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 4:29:03 | 46.59 | 43.49 | 784 | 0.54 | 0.17 | 42.9 |
| 5/2/2015 4:29:04 | 46.92 | 43.82 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 4:29:04 | 47.24 | 44.14 | 793 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:29:05 | 47.57 | 44.47 | 793 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 4:29:05 | 47.90 | 44.80 | 785 | 0.54 | 0.17 | 42.9 |
| 5/2/2015 4:29:05 | 48.23 | 45.13 | 782 | 0.54 | 0.17 | 42.8 |
| 5/2/2015 4:29:06 | 48.56 | 45.46 | 782 | 0.54 | 0.17 | 42.8 |
| 5/2/2015 4:29:06 | 48.88 | 45.78 | 779 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 4:29:07 | 49.21 | 46.11 | 774 | 0.54 | 0.17 | 42.3 |
| 5/2/2015 4:29:07 | 49.54 | 46.44 | 767 | 0.54 | 0.17 | 42.0 |
| 5/2/2015 4:29:08 | 49.87 | 46.77 | 762 | 0.54 | 0.17 | 41.7 |
| 5/2/2015 4:29:09 | 50.20 | 47.10 | 752 | 0.54 | 0.17 | 41.1 |
| 5/2/2015 4:29:09 | 50.53 | 47.43 | 751 | 0.54 | 0.17 | 41.1 |
| 5/2/2015 4:29:10 | 50.85 | 47.75 | 748 | 0.54 | 0.17 | 40.9 |
| 5/2/2015 4:29:10 | 51.18 | 48.08 | 748 | 0.54 | 0.17 | 40.9 |
| 5/2/2015 4:29:10 | 51.51 | 48.41 | 745 | 0.54 | 0.17 | 40.7 |
| 5/2/2015 4:29:11 | 51.84 | 48.74 | 742 | 0.54 | 0.17 | 40.6 |
| 5/2/2015 4:29:11 | 52.17 | 49.07 | 740 | 0.54 | 0.17 | 40.5 |
| 5/2/2015 4:29:12 | 52.49 | 49.39 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 4:29:12 | 52.82 | 49.72 | 730 | 0.54 | 0.17 | 39.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:29:13 | 53.15 | 50.05 | 716 | 0.54 | 0.17 | 39.1 |
| 5/2/2015 | 4:29:13 | 53.48 | 50.38 | 716 | 0.54 | 0.17 | 39.1 |
| 5/2/2015 | 4:29:14 | 53.81 | 50.71 | 709 | 0.54 | 0.17 | 38.8 |
| 5/2/2015 | 4:29:20 | 54.13 | 51.03 | 90 | 0.54 | 0.17 | 4.9 |
| 5/2/2015 | 4:29:28 | 54.46 | 51.36 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 4:29:33 | 54.79 | 51.69 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 4:29:39 | 55.12 | 52.02 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 | 4:29:44 | 55.45 | 52.35 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 | 4:29:47 | 55.77 | 52.67 | 125 | 0.54 | 0.17 | 6.8 |
| 5/2/2015 | 4:29:50 | 56.10 | 53.00 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 4:29:53 | 56.43 | 53.33 | 122 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 | 4:29:57 | 56.76 | 53.66 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 | 4:30:01 | 57.09 | 53.99 | 84 | 0.54 | 0.17 | 4.6 |
| 5/2/2015 | 4:30:05 | 57.41 | 54.31 | 96 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 4:30:08 | 57.74 | 54.64 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 4:30:12 | 58.07 | 54.97 | 110 | 0.54 | 0.17 | 6.0 |
| 5/2/2015 | 4:30:17 | 58.37 | 55.27 | 51 | 0.54 | 0.17 | 2.8 |

## M25 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:25:59

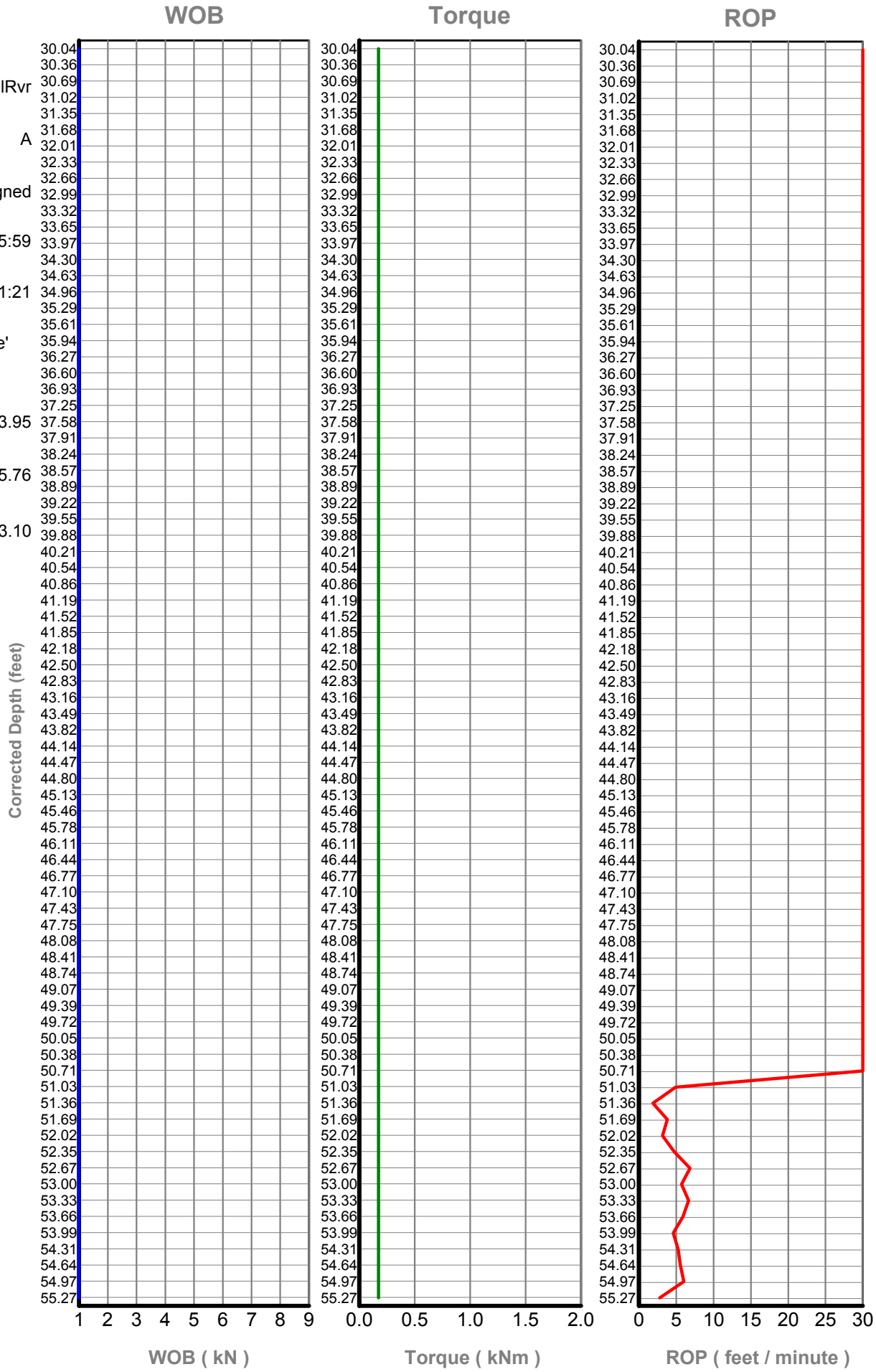
**End Date:**
5/2/2015 4:31:21

**Operator Note:**
'3.1 3.3 a Auto Complete'

**Northing:**
358,933.95

**Easting:**
239,975.76

**Tide (feet):**
3.10



## Hole: M26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:27:16 | 33.14 | 30.04 | 1,146 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 4:27:16 | 33.46 | 30.36 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/2/2015 4:27:16 | 33.79 | 30.69 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 4:27:17 | 34.12 | 31.02 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 4:27:17 | 34.45 | 31.35 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:27:17 | 34.78 | 31.68 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:27:17 | 35.11 | 32.01 | 1,167 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 4:27:18 | 35.43 | 32.33 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:27:19 | 35.76 | 32.66 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:27:19 | 36.09 | 32.99 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:27:19 | 36.42 | 33.32 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:27:19 | 36.75 | 33.65 | 1,147 | 0.31 | 0.37 | 62.7 |
| 5/2/2015 4:27:20 | 37.07 | 33.97 | 1,147 | 0.31 | 0.37 | 62.7 |
| 5/2/2015 4:27:20 | 37.40 | 34.30 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 4:27:20 | 37.73 | 34.63 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 4:27:21 | 38.06 | 34.96 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 4:27:21 | 38.39 | 35.29 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 4:27:21 | 38.71 | 35.61 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 4:27:21 | 39.04 | 35.94 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 4:27:22 | 39.37 | 36.27 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/2/2015 4:27:22 | 39.70 | 36.60 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/2/2015 4:27:22 | 40.03 | 36.93 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/2/2015 4:27:23 | 40.35 | 37.25 | 1,146 | 0.31 | 0.38 | 62.7 |
| 5/2/2015 4:27:23 | 40.68 | 37.58 | 1,160 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 4:27:23 | 41.01 | 37.91 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 4:27:24 | 41.34 | 38.24 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 4:27:24 | 41.67 | 38.57 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 4:27:24 | 41.99 | 38.89 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 4:27:24 | 42.32 | 39.22 | 1,168 | 0.31 | 0.36 | 63.8 |
| 5/2/2015 4:27:25 | 42.65 | 39.55 | 1,184 | 0.31 | 0.38 | 64.7 |
| 5/2/2015 4:27:25 | 42.98 | 39.88 | 1,184 | 0.31 | 0.38 | 64.7 |
| 5/2/2015 4:27:25 | 43.31 | 40.21 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 4:27:26 | 43.64 | 40.54 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 4:27:26 | 43.96 | 40.86 | 1,171 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 4:27:26 | 44.29 | 41.19 | 1,171 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 4:27:26 | 44.62 | 41.52 | 1,168 | 0.24 | 0.38 | 63.9 |
| 5/2/2015 4:27:27 | 44.95 | 41.85 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 4:27:27 | 45.28 | 42.18 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 4:27:27 | 45.60 | 42.50 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 4:27:28 | 45.93 | 42.83 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 4:27:28 | 46.26 | 43.16 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 4:27:29 | 46.59 | 43.49 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 4:27:29 | 46.92 | 43.82 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 4:27:29 | 47.24 | 44.14 | 1,146 | 0.32 | 0.36 | 62.7 |
| 5/2/2015 4:27:29 | 47.57 | 44.47 | 1,146 | 0.32 | 0.36 | 62.7 |
| 5/2/2015 4:27:30 | 47.90 | 44.80 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 4:27:30 | 48.23 | 45.13 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 4:27:30 | 48.56 | 45.46 | 1,138 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 4:27:31 | 48.88 | 45.78 | 1,138 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 4:27:31 | 49.21 | 46.11 | 1,138 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 4:27:31 | 49.54 | 46.44 | 1,163 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 4:27:32 | 49.87 | 46.77 | 1,163 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 4:27:32 | 50.20 | 47.10 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 4:27:32 | 50.53 | 47.43 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 4:27:33 | 50.85 | 47.75 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 4:27:33 | 51.18 | 48.08 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 4:27:33 | 51.51 | 48.41 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 4:27:33 | 51.84 | 48.74 | 1,126 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 4:27:34 | 52.17 | 49.07 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/2/2015 4:27:34 | 52.49 | 49.39 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/2/2015 4:27:34 | 52.82 | 49.72 | 1,150 | 0.31 | 0.38 | 62.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:27:35 | 53.15 | 50.05 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/2/2015 | 4:27:35 | 53.48 | 50.38 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/2/2015 | 4:27:35 | 53.81 | 50.71 | 1,110 | 0.32 | 0.38 | 60.7 |
| 5/2/2015 | 4:27:36 | 54.13 | 51.03 | 1,096 | 0.31 | 0.39 | 59.9 |
| 5/2/2015 | 4:27:36 | 54.46 | 51.36 | 1,096 | 0.31 | 0.39 | 59.9 |
| 5/2/2015 | 4:27:36 | 54.79 | 51.69 | 1,050 | 0.31 | 0.39 | 57.4 |
| 5/2/2015 | 4:27:37 | 55.12 | 52.02 | 1,050 | 0.31 | 0.40 | 57.4 |
| 5/2/2015 | 4:27:38 | 55.45 | 52.35 | 1,050 | 0.31 | 0.40 | 57.4 |
| 5/2/2015 | 4:27:37 | 55.77 | 52.67 | 1,006 | 0.31 | 0.40 | 55.0 |
| 5/2/2015 | 4:27:38 | 56.10 | 53.00 | 1,006 | 0.30 | 0.42 | 55.0 |
| 5/2/2015 | 4:27:38 | 56.43 | 53.33 | 979 | 0.29 | 0.44 | 53.5 |
| 5/2/2015 | 4:27:46 | 56.76 | 53.66 | 88 | 3.26 | 0.43 | 4.8 |
| 5/2/2015 | 4:27:46 | 57.09 | 53.99 | 169 | 3.34 | 0.44 | 9.3 |
| 5/2/2015 | 4:27:48 | 57.41 | 54.31 | 344 | 5.04 | 0.45 | 18.8 |
| 5/2/2015 | 4:27:54 | 57.74 | 54.64 | 49 | 4.38 | 0.46 | 2.7 |
| 5/2/2015 | 4:28:01 | 58.07 | 54.97 | 40 | 4.21 | 0.47 | 2.2 |
| 5/2/2015 | 4:28:09 | 58.28 | 55.18 | 34 | 3.64 | 0.46 | 1.9 |

## M26 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:25:50

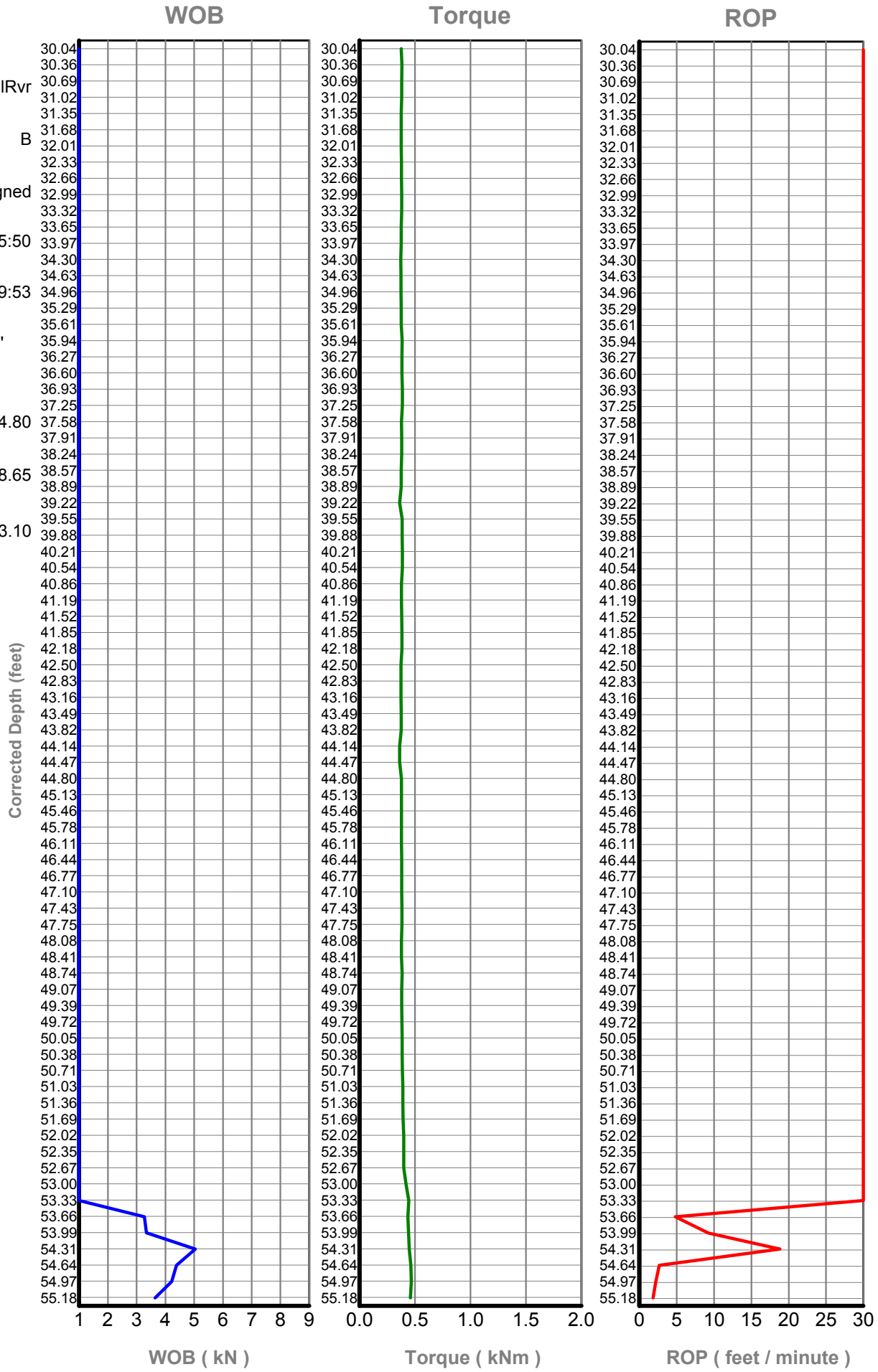
**End Date:**
5/2/2015 4:29:53

**Operator Note:**
'3.1 3.3b Auto Complete'

**Northing:**
358,974.80

**Easting:**
240,038.65

**Tide (feet):**
3.10



## Hole: M27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:26:23 | 33.14 | 30.04 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:23 | 33.46 | 30.36 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:26:24 | 33.79 | 30.69 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:26:24 | 34.12 | 31.02 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:25 | 34.45 | 31.35 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:25 | 34.78 | 31.68 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:26:26 | 35.11 | 32.01 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:26:26 | 35.43 | 32.33 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:26:26 | 35.76 | 32.66 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:27 | 36.09 | 32.99 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 4:26:27 | 36.42 | 33.32 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 4:26:27 | 36.75 | 33.65 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:28 | 37.07 | 33.97 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:28 | 37.40 | 34.30 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:28 | 37.73 | 34.63 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:29 | 38.06 | 34.96 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:29 | 38.39 | 35.29 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:29 | 38.71 | 35.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:26:30 | 39.04 | 35.94 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:30 | 39.37 | 36.27 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:30 | 39.70 | 36.60 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:31 | 40.03 | 36.93 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 4:26:31 | 40.35 | 37.25 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 4:26:31 | 40.68 | 37.58 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:32 | 41.01 | 37.91 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:32 | 41.34 | 38.24 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:32 | 41.67 | 38.57 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:33 | 41.99 | 38.89 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:33 | 42.32 | 39.22 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:33 | 42.65 | 39.55 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:34 | 42.98 | 39.88 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:34 | 43.31 | 40.21 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:34 | 43.64 | 40.54 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 4:26:35 | 43.96 | 40.86 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:35 | 44.29 | 41.19 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:35 | 44.62 | 41.52 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 4:26:36 | 44.95 | 41.85 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:36 | 45.28 | 42.18 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:26:36 | 45.60 | 42.50 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:37 | 45.93 | 42.83 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:38 | 46.26 | 43.16 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:38 | 46.59 | 43.49 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 4:26:38 | 46.92 | 43.82 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:39 | 47.24 | 44.14 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 4:26:39 | 47.57 | 44.47 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 4:26:39 | 47.90 | 44.80 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 4:26:40 | 48.23 | 45.13 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 4:26:40 | 48.56 | 45.46 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 4:26:40 | 48.88 | 45.78 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 4:26:41 | 49.21 | 46.11 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:26:41 | 49.54 | 46.44 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:26:41 | 49.87 | 46.77 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 4:26:42 | 50.20 | 47.10 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 4:26:42 | 50.53 | 47.43 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 4:26:42 | 50.85 | 47.75 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 4:26:43 | 51.18 | 48.08 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 4:26:43 | 51.51 | 48.41 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 4:26:43 | 51.84 | 48.74 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 4:26:44 | 52.17 | 49.07 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 4:26:44 | 52.49 | 49.39 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 4:26:45 | 52.82 | 49.72 | 932 | 1.14 | 0.29 | 51.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:26:45 | 53.15 | 50.05 | 932 | 1.14 | 0.29 | 51.0 |
| 5/2/2015 | 4:31:50 | 53.48 | 50.38 | 41 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 4:31:59 | 53.81 | 50.71 | 40 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 | 4:32:04 | 54.13 | 51.03 | 68 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 4:32:10 | 54.46 | 51.36 | 64 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 | 4:32:14 | 54.79 | 51.69 | 77 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 | 4:32:20 | 55.12 | 52.02 | 61 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 4:32:26 | 55.45 | 52.35 | 51 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 4:32:32 | 55.77 | 52.67 | 65 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 | 4:32:37 | 56.10 | 53.00 | 63 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 | 4:32:44 | 56.43 | 53.33 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 4:32:51 | 56.76 | 53.66 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 4:32:52 | 56.87 | 53.77 | 52 | 1.14 | 0.29 | 2.9 |

## M27 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:25:14

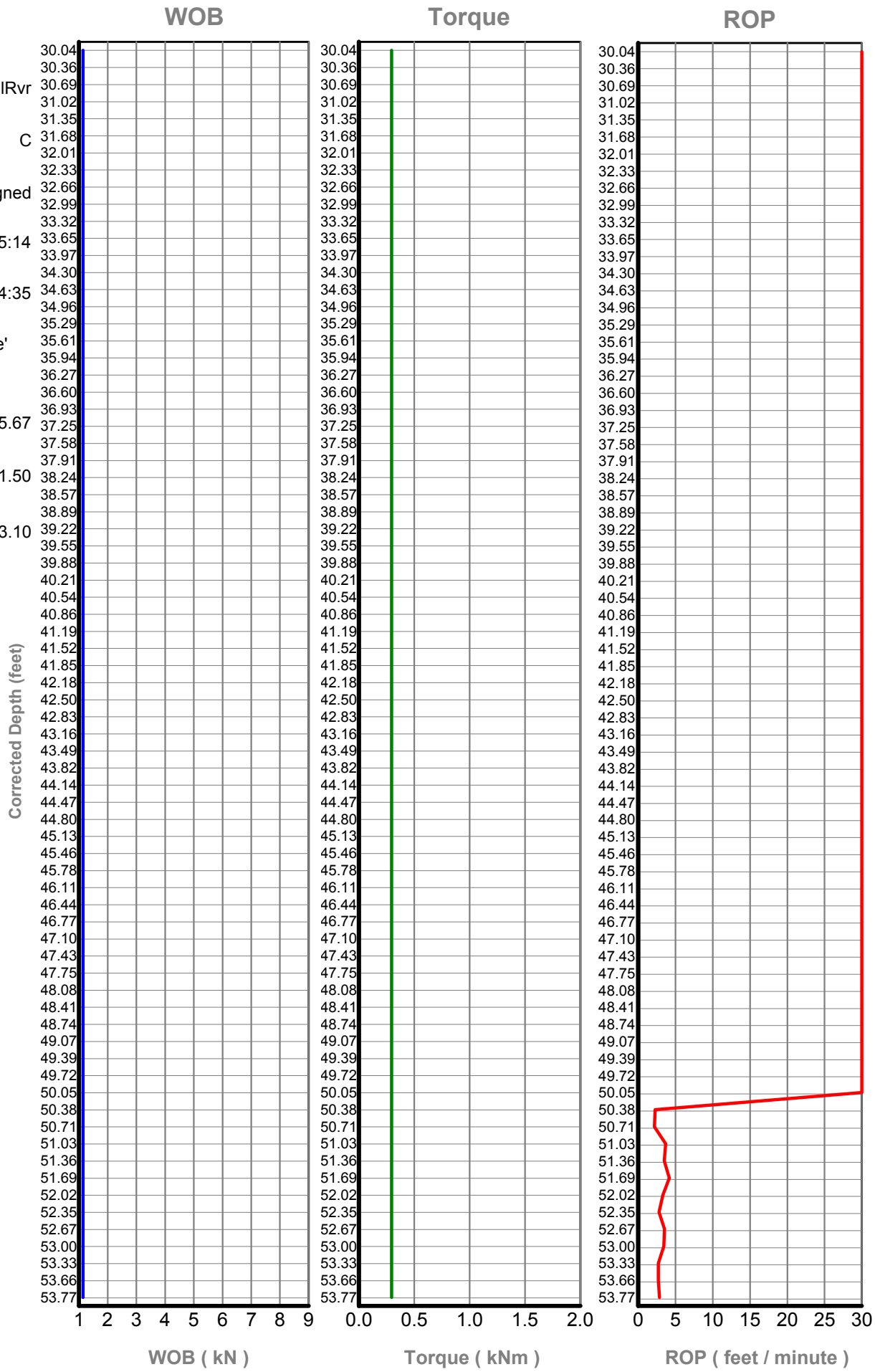
**End Date:**
5/2/2015 4:34:35

**Operator Note:**
'3.1 3.3 c Auto Complete'

**Northing:**
359,015.67

**Easting:**
240,101.50

**Tide (feet):**
3.10



## Hole: M28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:02:15 | 34.78 | 30.18 | 1,246 | 1.82 | 0.25 | 68.1 |
| 5/2/2015 3:02:16 | 35.11 | 30.51 | 1,246 | 1.82 | 0.25 | 68.1 |
| 5/2/2015 3:02:16 | 35.43 | 30.83 | 1,249 | 1.81 | 0.25 | 68.3 |
| 5/2/2015 3:02:16 | 35.76 | 31.16 | 1,249 | 1.81 | 0.25 | 68.3 |
| 5/2/2015 3:02:16 | 36.09 | 31.49 | 1,249 | 1.82 | 0.24 | 68.3 |
| 5/2/2015 3:02:17 | 36.42 | 31.82 | 1,249 | 1.82 | 0.24 | 68.3 |
| 5/2/2015 3:02:17 | 36.75 | 32.15 | 1,243 | 1.84 | 0.25 | 68.0 |
| 5/2/2015 3:02:17 | 37.07 | 32.47 | 1,243 | 1.84 | 0.25 | 68.0 |
| 5/2/2015 3:02:17 | 37.40 | 32.80 | 1,243 | 1.80 | 0.25 | 68.0 |
| 5/2/2015 3:02:18 | 37.73 | 33.13 | 1,236 | 1.83 | 0.25 | 67.6 |
| 5/2/2015 3:02:18 | 38.06 | 33.46 | 1,236 | 1.83 | 0.25 | 67.6 |
| 5/2/2015 3:02:18 | 38.39 | 33.79 | 1,246 | 1.80 | 0.25 | 68.1 |
| 5/2/2015 3:02:19 | 38.71 | 34.11 | 1,246 | 1.80 | 0.25 | 68.1 |
| 5/2/2015 3:02:19 | 39.04 | 34.44 | 1,243 | 1.81 | 0.25 | 68.0 |
| 5/2/2015 3:02:19 | 39.37 | 34.77 | 1,243 | 1.81 | 0.25 | 68.0 |
| 5/2/2015 3:02:20 | 39.70 | 35.10 | 1,246 | 1.82 | 0.24 | 68.1 |
| 5/2/2015 3:02:20 | 40.03 | 35.43 | 1,246 | 1.82 | 0.24 | 68.1 |
| 5/2/2015 3:02:20 | 40.35 | 35.75 | 1,246 | 1.82 | 0.25 | 68.1 |
| 5/2/2015 3:02:21 | 40.68 | 36.08 | 1,246 | 1.82 | 0.25 | 68.1 |
| 5/2/2015 3:02:21 | 41.01 | 36.41 | 1,249 | 1.82 | 0.25 | 68.3 |
| 5/2/2015 3:02:21 | 41.34 | 36.74 | 1,243 | 1.83 | 0.25 | 68.0 |
| 5/2/2015 3:02:22 | 41.67 | 37.07 | 1,243 | 1.83 | 0.25 | 68.0 |
| 5/2/2015 3:02:22 | 41.99 | 37.39 | 1,240 | 1.81 | 0.24 | 67.8 |
| 5/2/2015 3:02:22 | 42.32 | 37.72 | 1,240 | 1.81 | 0.24 | 67.8 |
| 5/2/2015 3:02:22 | 42.65 | 38.05 | 1,230 | 1.81 | 0.25 | 67.3 |
| 5/2/2015 3:02:23 | 42.98 | 38.38 | 1,230 | 1.81 | 0.25 | 67.3 |
| 5/2/2015 3:02:23 | 43.31 | 38.71 | 1,240 | 1.48 | 0.29 | 67.8 |
| 5/2/2015 3:02:23 | 43.64 | 39.04 | 1,166 | 1.19 | 0.26 | 63.8 |
| 5/2/2015 3:02:24 | 43.96 | 39.36 | 998 | 1.21 | 0.26 | 54.6 |
| 5/2/2015 3:02:24 | 44.29 | 39.69 | 873 | 1.21 | 0.26 | 47.8 |
| 5/2/2015 3:02:25 | 44.62 | 40.02 | 873 | 1.21 | 0.26 | 47.8 |
| 5/2/2015 3:02:26 | 44.95 | 40.35 | 640 | 1.21 | 0.26 | 35.0 |
| 5/2/2015 3:02:26 | 45.28 | 40.68 | 594 | 1.21 | 0.26 | 32.5 |
| 5/2/2015 3:02:27 | 45.60 | 41.00 | 644 | 1.22 | 0.26 | 35.2 |
| 5/2/2015 3:02:27 | 45.93 | 41.33 | 655 | 1.21 | 0.26 | 35.8 |
| 5/2/2015 3:02:28 | 46.26 | 41.66 | 647 | 1.20 | 0.26 | 35.4 |
| 5/2/2015 3:02:29 | 46.59 | 41.99 | 647 | 1.20 | 0.26 | 35.4 |
| 5/2/2015 3:02:29 | 46.92 | 42.32 | 648 | 1.21 | 0.26 | 35.4 |
| 5/2/2015 3:02:29 | 47.24 | 42.64 | 648 | 1.21 | 0.26 | 35.4 |
| 5/2/2015 3:02:30 | 47.57 | 42.97 | 645 | 1.22 | 0.26 | 35.3 |
| 5/2/2015 3:02:31 | 47.90 | 43.30 | 641 | 1.22 | 0.26 | 35.1 |
| 5/2/2015 3:02:31 | 48.23 | 43.63 | 644 | 1.22 | 0.26 | 35.2 |
| 5/2/2015 3:02:32 | 48.56 | 43.96 | 645 | 1.21 | 0.26 | 35.3 |
| 5/2/2015 3:02:32 | 48.88 | 44.28 | 645 | 1.23 | 0.26 | 35.3 |
| 5/2/2015 3:02:33 | 49.21 | 44.61 | 641 | 1.21 | 0.26 | 35.1 |
| 5/2/2015 3:02:33 | 49.54 | 44.94 | 649 | 1.22 | 0.26 | 35.5 |
| 5/2/2015 3:02:34 | 49.87 | 45.27 | 642 | 1.22 | 0.26 | 35.1 |
| 5/2/2015 3:02:35 | 50.20 | 45.60 | 636 | 1.07 | 0.20 | 34.8 |
| 5/2/2015 3:02:35 | 50.53 | 45.93 | 645 | 1.11 | 0.20 | 35.2 |
| 5/2/2015 3:02:36 | 50.85 | 46.25 | 650 | 1.09 | 0.20 | 35.6 |
| 5/2/2015 3:02:36 | 51.18 | 46.58 | 656 | 1.11 | 0.20 | 35.9 |
| 5/2/2015 3:02:37 | 51.51 | 46.91 | 658 | 1.09 | 0.20 | 36.0 |
| 5/2/2015 3:02:37 | 51.84 | 47.24 | 668 | 1.10 | 0.20 | 36.5 |
| 5/2/2015 3:02:38 | 52.17 | 47.57 | 662 | 1.08 | 0.20 | 36.2 |
| 5/2/2015 3:02:38 | 52.49 | 47.89 | 653 | 1.11 | 0.20 | 35.7 |
| 5/2/2015 3:02:39 | 52.82 | 48.22 | 647 | 1.10 | 0.20 | 35.4 |
| 5/2/2015 3:02:57 | 53.15 | 48.55 | 0 | 1.13 | 1.38 | 0.0 |
| 5/2/2015 3:03:04 | 53.48 | 48.88 | 43 | 1.04 | 1.12 | 2.4 |
| 5/2/2015 3:03:13 | 53.81 | 49.21 | 40 | 1.11 | 1.02 | 2.2 |
| 5/2/2015 3:03:19 | 54.13 | 49.53 | 61 | 1.18 | 1.10 | 3.3 |
| 5/2/2015 3:03:27 | 54.46 | 49.86 | 43 | 1.19 | 1.08 | 2.3 |

## M28 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:53:28

**End Date:**
5/2/2015 3:04:29

**Operator Note:**
'4.6 4.7 a Auto Complete'

**Northing:**
359,048.70

**Easting:**
240,159.40

**Tide (feet):**
4.60



## Hole: M29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:02:54 | 34.78 | 30.28 | 1,174 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 3:02:55 | 35.11 | 30.61 | 1,174 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 3:02:55 | 35.43 | 30.93 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 3:02:55 | 35.76 | 31.26 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 3:02:56 | 36.09 | 31.59 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 3:02:56 | 36.42 | 31.92 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 3:02:56 | 36.75 | 32.25 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 3:02:56 | 37.07 | 32.57 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/2/2015 3:02:57 | 37.40 | 32.90 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 3:02:57 | 37.73 | 33.23 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 3:02:57 | 38.06 | 33.56 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 3:02:58 | 38.39 | 33.89 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 3:02:58 | 38.71 | 34.21 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/2/2015 3:02:59 | 39.04 | 34.54 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/2/2015 3:02:59 | 39.37 | 34.87 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 3:02:59 | 39.70 | 35.20 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/2/2015 3:03:00 | 40.03 | 35.53 | 1,171 | 0.31 | 0.37 | 64.0 |
| 5/2/2015 3:03:00 | 40.35 | 35.85 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 3:03:00 | 40.68 | 36.18 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 3:03:00 | 41.01 | 36.51 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 3:03:01 | 41.34 | 36.84 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 3:03:01 | 41.67 | 37.17 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 3:03:01 | 41.99 | 37.49 | 1,161 | 0.34 | 0.38 | 63.5 |
| 5/2/2015 3:03:02 | 42.32 | 37.82 | 1,161 | 0.34 | 0.38 | 63.5 |
| 5/2/2015 3:03:02 | 42.65 | 38.15 | 1,169 | 0.34 | 0.37 | 63.9 |
| 5/2/2015 3:03:02 | 42.98 | 38.48 | 1,169 | 0.34 | 0.37 | 63.9 |
| 5/2/2015 3:03:02 | 43.31 | 38.81 | 1,155 | 0.32 | 0.37 | 63.1 |
| 5/2/2015 3:03:03 | 43.64 | 39.14 | 1,162 | 0.28 | 0.37 | 63.5 |
| 5/2/2015 3:03:03 | 43.96 | 39.46 | 1,162 | 0.28 | 0.37 | 63.5 |
| 5/2/2015 3:03:03 | 44.29 | 39.79 | 1,193 | 0.31 | 0.38 | 65.2 |
| 5/2/2015 3:03:04 | 44.62 | 40.12 | 1,193 | 0.31 | 0.38 | 65.2 |
| 5/2/2015 3:03:04 | 44.95 | 40.45 | 1,177 | 0.32 | 0.37 | 64.4 |
| 5/2/2015 3:03:04 | 45.28 | 40.78 | 1,167 | 0.32 | 0.38 | 63.8 |
| 5/2/2015 3:03:05 | 45.60 | 41.10 | 1,167 | 0.32 | 0.38 | 63.8 |
| 5/2/2015 3:03:05 | 45.93 | 41.43 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 3:03:05 | 46.26 | 41.76 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 3:03:05 | 46.59 | 42.09 | 1,177 | 0.30 | 0.39 | 64.3 |
| 5/2/2015 3:03:06 | 46.92 | 42.42 | 1,177 | 0.30 | 0.39 | 64.3 |
| 5/2/2015 3:03:06 | 47.24 | 42.74 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 3:03:06 | 47.57 | 43.07 | 1,177 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 3:03:07 | 47.90 | 43.40 | 1,177 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 3:03:07 | 48.23 | 43.73 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:03:07 | 48.56 | 44.06 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:03:07 | 48.88 | 44.38 | 1,186 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:03:08 | 49.21 | 44.71 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 3:03:09 | 49.54 | 45.04 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 3:03:09 | 49.87 | 45.37 | 1,171 | 0.32 | 0.38 | 64.0 |
| 5/2/2015 3:03:09 | 50.20 | 45.70 | 1,171 | 0.32 | 0.38 | 64.0 |
| 5/2/2015 3:03:09 | 50.53 | 46.03 | 1,171 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 3:03:10 | 50.85 | 46.35 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 3:03:10 | 51.18 | 46.68 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 3:03:10 | 51.51 | 47.01 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 3:03:11 | 51.84 | 47.34 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 3:03:11 | 52.17 | 47.67 | 1,143 | 0.35 | 0.38 | 62.5 |
| 5/2/2015 3:03:11 | 52.49 | 47.99 | 1,116 | 0.31 | 0.38 | 61.0 |
| 5/2/2015 3:03:12 | 52.82 | 48.32 | 1,116 | 0.31 | 0.38 | 61.0 |
| 5/2/2015 3:03:12 | 53.15 | 48.65 | 1,090 | 0.31 | 0.39 | 59.6 |
| 5/2/2015 3:03:16 | 53.48 | 48.98 | 0 | 2.25 | 0.34 | 0.0 |
| 5/2/2015 3:03:16 | 53.81 | 49.31 | 0 | 2.25 | 0.34 | 0.0 |
| 5/2/2015 3:03:20 | 54.13 | 49.63 | 0 | 2.08 | 0.37 | 0.0 |
| 5/2/2015 3:03:21 | 54.46 | 49.96 | 70 | 3.01 | 0.39 | 3.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:03:21 | 54.79 | 50.29 | 70 | 4.02 | 0.42 | 3.8 |
| 5/2/2015 | 3:03:22 | 55.12 | 50.62 | 232 | 3.94 | 0.41 | 12.7 |
| 5/2/2015 | 3:03:25 | 55.45 | 50.95 | 59 | 3.86 | 0.44 | 3.2 |
| 5/2/2015 | 3:03:32 | 55.77 | 51.27 | 49 | 4.36 | 0.44 | 2.7 |
| 5/2/2015 | 3:03:33 | 56.10 | 51.60 | 104 | 6.79 | 0.44 | 5.7 |
| 5/2/2015 | 3:03:34 | 56.43 | 51.93 | 289 | 3.15 | 0.41 | 15.8 |
| 5/2/2015 | 3:03:34 | 56.76 | 52.26 | 416 | 3.86 | 0.44 | 22.7 |
| 5/2/2015 | 3:03:36 | 57.09 | 52.59 | 351 | 3.75 | 0.46 | 19.2 |
| 5/2/2015 | 3:03:40 | 57.41 | 52.91 | 88 | 3.58 | 0.44 | 4.8 |
| 5/2/2015 | 3:03:41 | 57.74 | 53.24 | 176 | 4.03 | 0.45 | 9.6 |
| 5/2/2015 | 3:03:42 | 58.07 | 53.57 | 263 | 3.70 | 0.45 | 14.4 |
| 5/2/2015 | 3:03:43 | 58.40 | 53.90 | 288 | 3.55 | 0.45 | 15.7 |
| 5/2/2015 | 3:03:44 | 58.73 | 54.23 | 286 | 3.37 | 0.44 | 15.6 |
| 5/2/2015 | 3:03:45 | 59.06 | 54.56 | 330 | 4.19 | 0.43 | 18.0 |
| 5/2/2015 | 3:03:47 | 59.38 | 54.88 | 232 | 3.41 | 0.42 | 12.7 |
| 5/2/2015 | 3:03:48 | 59.71 | 55.21 | 217 | 3.31 | 0.43 | 11.9 |
| 5/2/2015 | 3:03:48 | 59.92 | 55.42 | 217 | 3.31 | 0.43 | 11.9 |

## M29 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:01:25

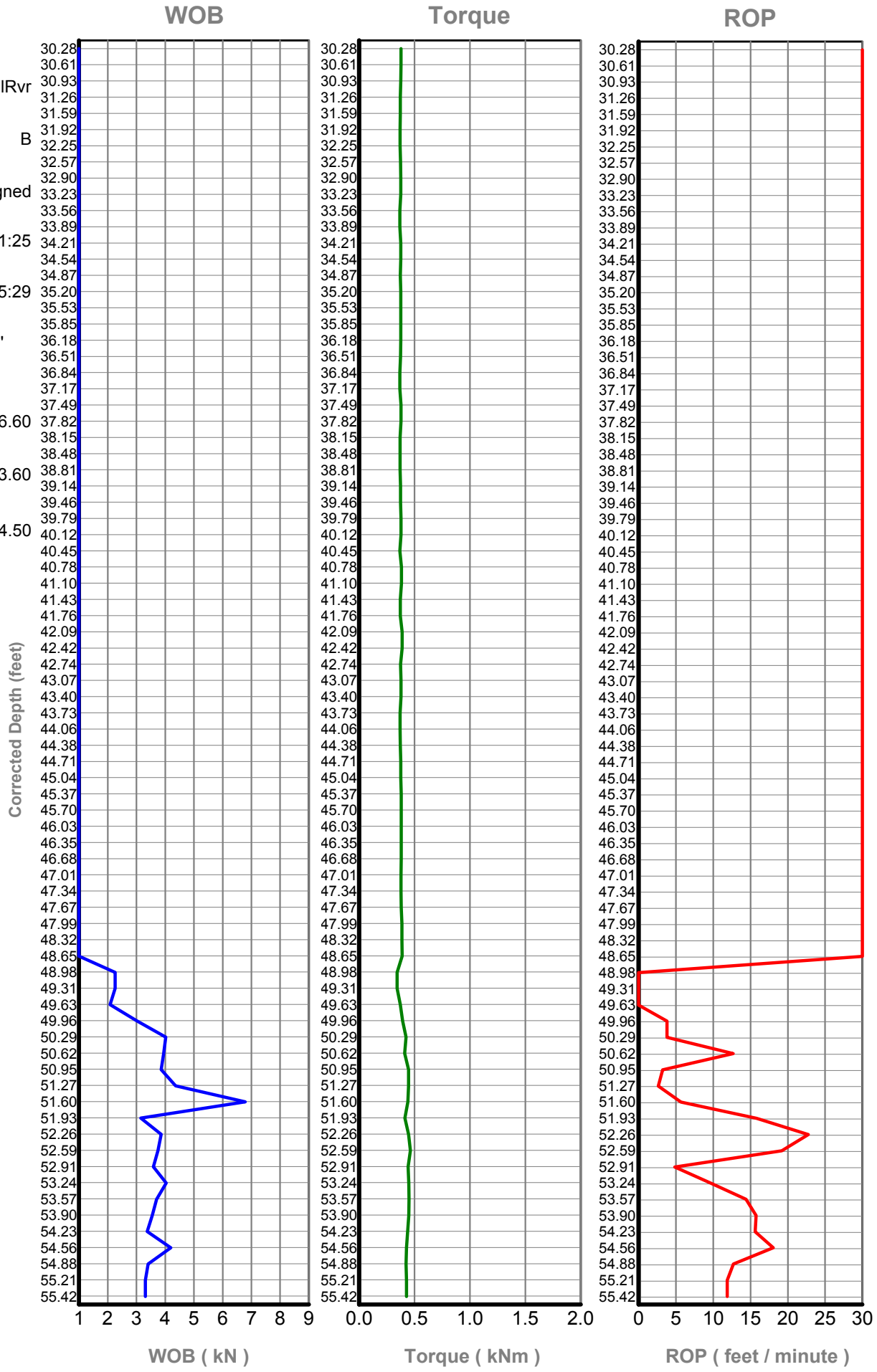
**End Date:**
5/2/2015 3:05:29

**Operator Note:**
'4.5 4.7b Auto Complete'

**Northing:**
359,086.60

**Easting:**
240,223.60

**Tide (feet):**
4.50



## Hole: M3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:53:00 | 33.79 | 30.19 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:53:01 | 34.12 | 30.52 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:53:01 | 34.45 | 30.85 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:53:01 | 34.78 | 31.18 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:53:02 | 35.11 | 31.51 | 1,010 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 3:53:02 | 35.43 | 31.83 | 1,010 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 3:53:02 | 35.76 | 32.16 | 999 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 3:53:03 | 36.09 | 32.49 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 3:53:03 | 36.42 | 32.82 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 3:53:03 | 36.75 | 33.15 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 3:53:04 | 37.07 | 33.47 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:53:04 | 37.40 | 33.80 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:53:04 | 37.73 | 34.13 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 3:53:05 | 38.06 | 34.46 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 3:53:05 | 38.39 | 34.79 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 3:53:05 | 38.71 | 35.11 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 3:53:06 | 39.04 | 35.44 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 3:53:07 | 39.37 | 35.77 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 3:53:07 | 39.70 | 36.10 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 3:53:07 | 40.03 | 36.43 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 3:53:08 | 40.35 | 36.75 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 3:53:08 | 40.68 | 37.08 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 3:53:08 | 41.01 | 37.41 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 3:53:09 | 41.34 | 37.74 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 3:53:09 | 41.67 | 38.07 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 3:53:09 | 41.99 | 38.39 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 3:53:10 | 42.32 | 38.72 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 3:53:10 | 42.65 | 39.05 | 979 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 3:53:11 | 42.98 | 39.38 | 979 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 3:53:11 | 43.31 | 39.71 | 965 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 3:53:11 | 43.64 | 40.04 | 968 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 3:53:12 | 43.96 | 40.36 | 968 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 3:53:12 | 44.29 | 40.69 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 3:53:12 | 44.62 | 41.02 | 939 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 3:53:13 | 44.95 | 41.35 | 920 | 1.14 | 0.29 | 50.3 |
| 5/2/2015 3:53:13 | 45.28 | 41.68 | 898 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 3:53:14 | 45.60 | 42.00 | 898 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 3:53:14 | 45.93 | 42.33 | 882 | 1.14 | 0.29 | 48.3 |
| 5/2/2015 3:53:14 | 46.26 | 42.66 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 3:53:15 | 46.59 | 42.99 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 3:53:15 | 46.92 | 43.32 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 3:53:16 | 47.24 | 43.64 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 3:53:16 | 47.57 | 43.97 | 866 | 1.14 | 0.29 | 47.3 |
| 5/2/2015 3:53:16 | 47.90 | 44.30 | 868 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 3:53:17 | 48.23 | 44.63 | 850 | 1.14 | 0.29 | 46.5 |
| 5/2/2015 3:53:17 | 48.56 | 44.96 | 843 | 1.14 | 0.29 | 46.1 |
| 5/2/2015 3:53:30 | 48.88 | 45.28 | 54 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 3:53:31 | 49.21 | 45.61 | 157 | 1.14 | 0.29 | 8.6 |
| 5/2/2015 3:53:33 | 49.54 | 45.94 | 349 | 1.14 | 0.29 | 19.1 |
| 5/2/2015 3:53:44 | 49.87 | 46.27 | 58 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 3:53:46 | 50.20 | 46.60 | 203 | 1.14 | 0.29 | 11.1 |
| 5/2/2015 3:53:47 | 50.53 | 46.93 | 221 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 3:54:15 | 50.85 | 47.25 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 3:54:19 | 51.18 | 47.58 | 102 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 3:54:21 | 51.51 | 47.91 | 154 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 3:54:22 | 51.84 | 48.24 | 188 | 1.14 | 0.29 | 10.3 |
| 5/2/2015 3:54:24 | 52.17 | 48.57 | 245 | 1.14 | 0.29 | 13.4 |
| 5/2/2015 3:54:26 | 52.49 | 48.89 | 186 | 1.14 | 0.29 | 10.2 |
| 5/2/2015 3:54:27 | 52.82 | 49.22 | 221 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 3:54:50 | 53.15 | 49.55 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 3:54:51 | 53.48 | 49.88 | 160 | 1.14 | 0.29 | 8.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:54:52 | 53.81 | 50.21 | 269 | 1.14 | 0.29 | 14.7 |
| 5/2/2015 | 3:54:52 | 54.13 | 50.53 | 384 | 1.14 | 0.29 | 21.0 |
| 5/2/2015 | 3:54:54 | 54.46 | 50.86 | 487 | 1.14 | 0.29 | 26.6 |
| 5/2/2015 | 3:55:25 | 54.79 | 51.19 | 64 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 | 3:55:29 | 55.12 | 51.52 | 105 | 1.14 | 0.29 | 5.8 |
| 5/2/2015 | 3:55:36 | 55.45 | 51.85 | 47 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 3:55:43 | 55.77 | 52.17 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 | 3:55:55 | 55.96 | 52.36 | 14 | 1.14 | 0.29 | 0.8 |

## M3 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:51:52

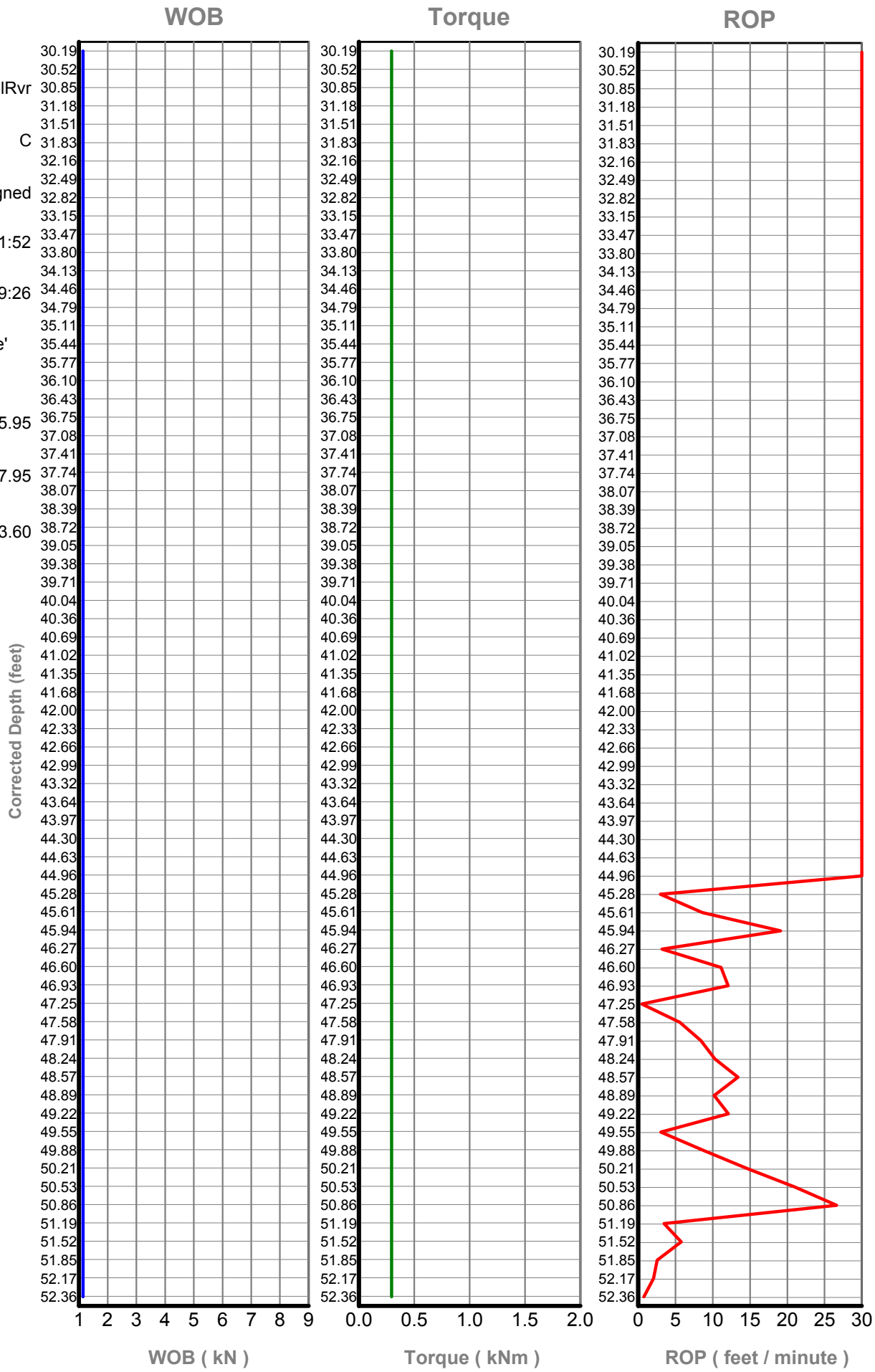
**End Date:**
5/2/2015 3:59:26

**Operator Note:**
'3.6 3.8 c Auto Complete'

**Northing:**
359,145.95

**Easting:**
240,027.95

**Tide (feet):**
3.60



## Hole: M30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:01:17 | 34.78 | 30.28 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:18 | 35.11 | 30.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:01:19 | 35.43 | 30.93 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:01:19 | 35.76 | 31.26 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 3:01:19 | 36.09 | 31.59 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 3:01:20 | 36.42 | 31.92 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 3:01:20 | 36.75 | 32.25 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:20 | 37.07 | 32.57 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 3:01:21 | 37.40 | 32.90 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 3:01:21 | 37.73 | 33.23 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:01:21 | 38.06 | 33.56 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 3:01:22 | 38.39 | 33.89 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 3:01:22 | 38.71 | 34.21 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 3:01:22 | 39.04 | 34.54 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:01:23 | 39.37 | 34.87 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:01:23 | 39.70 | 35.20 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:23 | 40.03 | 35.53 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 3:01:24 | 40.35 | 35.85 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 3:01:24 | 40.68 | 36.18 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 3:01:24 | 41.01 | 36.51 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:25 | 41.34 | 36.84 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:25 | 41.67 | 37.17 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:01:25 | 41.99 | 37.49 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:01:26 | 42.32 | 37.82 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:01:26 | 42.65 | 38.15 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 3:01:26 | 42.98 | 38.48 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:27 | 43.31 | 38.81 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:27 | 43.64 | 39.14 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 3:01:27 | 43.96 | 39.46 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 3:01:28 | 44.29 | 39.79 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:28 | 44.62 | 40.12 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:28 | 44.95 | 40.45 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:29 | 45.28 | 40.78 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:29 | 45.60 | 41.10 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:29 | 45.93 | 41.43 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:30 | 46.26 | 41.76 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:31 | 46.59 | 42.09 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:31 | 46.92 | 42.42 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:31 | 47.24 | 42.74 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:32 | 47.57 | 43.07 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:01:32 | 47.90 | 43.40 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 3:01:32 | 48.23 | 43.73 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 3:01:33 | 48.56 | 44.06 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 3:01:33 | 48.88 | 44.38 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 3:01:33 | 49.21 | 44.71 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 3:01:34 | 49.54 | 45.04 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 3:01:34 | 49.87 | 45.37 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 3:01:34 | 50.20 | 45.70 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:01:35 | 50.53 | 46.03 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:01:35 | 50.85 | 46.35 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 3:01:35 | 51.18 | 46.68 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 3:01:36 | 51.51 | 47.01 | 981 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 3:01:36 | 51.84 | 47.34 | 981 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 3:01:36 | 52.17 | 47.67 | 955 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 3:01:37 | 52.49 | 47.99 | 955 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 3:01:37 | 52.82 | 48.32 | 944 | 1.14 | 0.29 | 51.6 |
| 5/2/2015 3:01:38 | 53.15 | 48.65 | 944 | 1.14 | 0.29 | 51.6 |
| 5/2/2015 3:01:47 | 53.48 | 48.98 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 3:01:48 | 53.81 | 49.31 | 131 | 1.14 | 0.29 | 7.2 |
| 5/2/2015 3:01:57 | 54.13 | 49.63 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 3:02:07 | 54.46 | 49.96 | 47 | 1.14 | 0.29 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:02:16 | 54.79 | 50.29 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 | 3:02:22 | 55.03 | 50.53 | 41 | 1.14 | 0.29 | 2.2 |

## M30 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:00:23

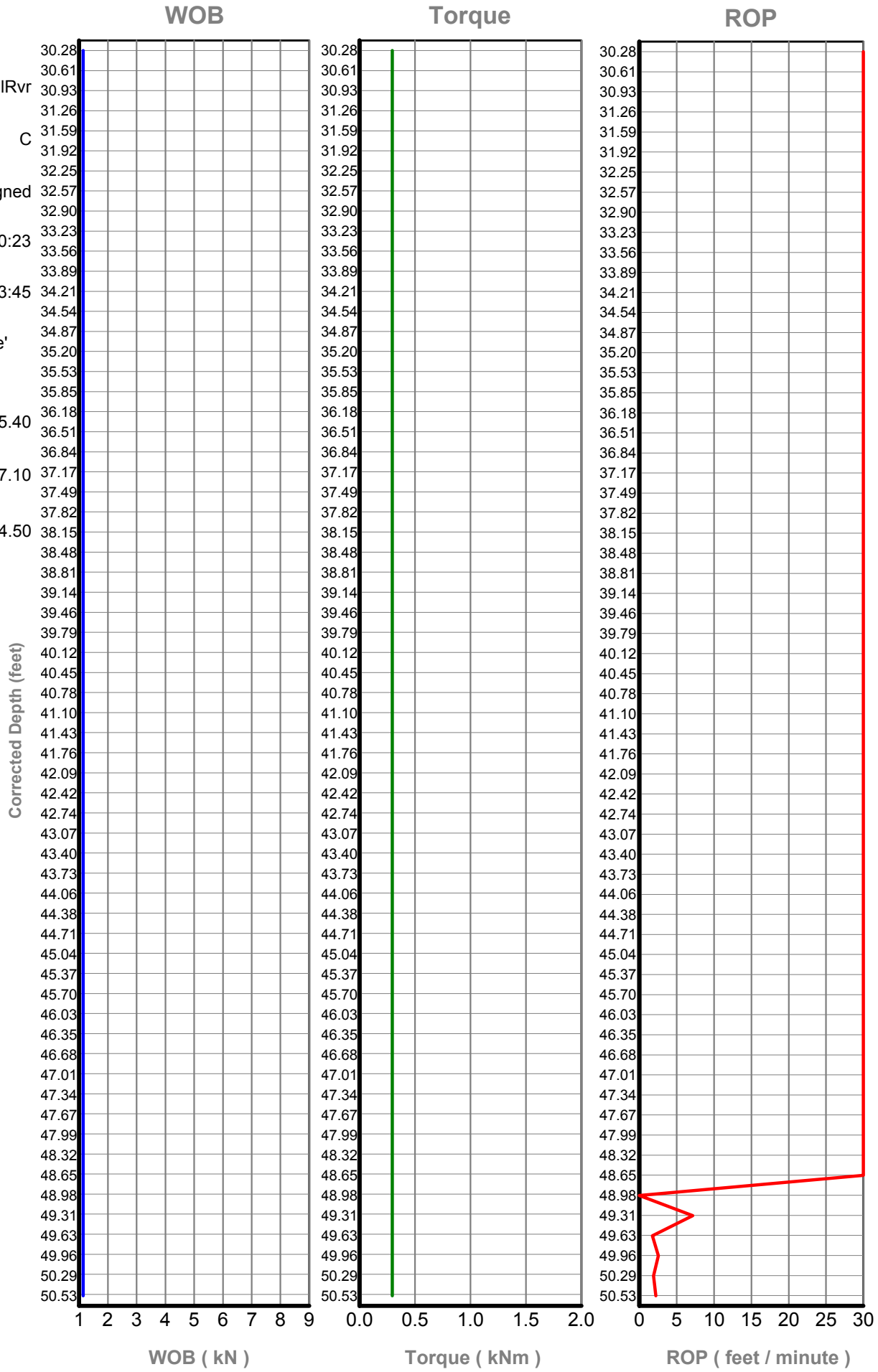
**End Date:**
5/2/2015 3:03:45

**Operator Note:**
'4.5 4.7 c Auto Complete'

**Northing:**
359,125.40

**Easting:**
240,287.10

**Tide (feet):**
4.50



## Hole: M31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:31:43 | 37.07 | 30.07 | 1,127 | 1.76 | 0.25 | 61.6 |
| 5/2/2015 0:31:44 | 37.40 | 30.40 | 1,127 | 1.76 | 0.25 | 61.6 |
| 5/2/2015 0:31:44 | 37.73 | 30.73 | 1,136 | 1.59 | 0.24 | 62.1 |
| 5/2/2015 0:31:44 | 38.06 | 31.06 | 1,136 | 1.59 | 0.24 | 62.1 |
| 5/2/2015 0:31:44 | 38.39 | 31.39 | 1,125 | 1.45 | 0.27 | 61.5 |
| 5/2/2015 0:31:46 | 38.71 | 31.71 | 920 | 1.24 | 0.27 | 50.3 |
| 5/2/2015 0:31:46 | 39.04 | 32.04 | 783 | 1.24 | 0.26 | 42.8 |
| 5/2/2015 0:31:47 | 39.37 | 32.37 | 677 | 1.24 | 0.27 | 37.0 |
| 5/2/2015 0:31:47 | 39.70 | 32.70 | 589 | 1.24 | 0.27 | 32.2 |
| 5/2/2015 0:31:48 | 40.03 | 33.03 | 538 | 1.23 | 0.27 | 29.4 |
| 5/2/2015 0:31:48 | 40.35 | 33.35 | 596 | 1.25 | 0.27 | 32.6 |
| 5/2/2015 0:31:49 | 40.68 | 33.68 | 633 | 1.24 | 0.27 | 34.6 |
| 5/2/2015 0:31:50 | 41.01 | 34.01 | 636 | 1.24 | 0.27 | 34.8 |
| 5/2/2015 0:31:50 | 41.34 | 34.34 | 635 | 1.25 | 0.27 | 34.7 |
| 5/2/2015 0:31:51 | 41.67 | 34.67 | 639 | 1.25 | 0.27 | 35.0 |
| 5/2/2015 0:31:51 | 41.99 | 34.99 | 643 | 1.26 | 0.27 | 35.2 |
| 5/2/2015 0:31:52 | 42.32 | 35.32 | 639 | 1.24 | 0.27 | 35.0 |
| 5/2/2015 0:31:52 | 42.65 | 35.65 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 0:31:53 | 42.98 | 35.98 | 646 | 1.24 | 0.27 | 35.3 |
| 5/2/2015 0:31:53 | 43.31 | 36.31 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 0:31:54 | 43.64 | 36.64 | 638 | 1.24 | 0.27 | 34.9 |
| 5/2/2015 0:31:54 | 43.96 | 36.96 | 645 | 1.24 | 0.27 | 35.2 |
| 5/2/2015 0:31:55 | 44.29 | 37.29 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 0:31:56 | 44.62 | 37.62 | 639 | 1.24 | 0.27 | 34.9 |
| 5/2/2015 0:31:56 | 44.95 | 37.95 | 639 | 1.24 | 0.26 | 34.9 |
| 5/2/2015 0:31:57 | 45.28 | 38.28 | 639 | 1.24 | 0.27 | 34.9 |
| 5/2/2015 0:31:58 | 45.60 | 38.60 | 634 | 1.23 | 0.26 | 34.7 |
| 5/2/2015 0:31:58 | 45.93 | 38.93 | 634 | 1.23 | 0.26 | 34.7 |
| 5/2/2015 0:31:59 | 46.26 | 39.26 | 638 | 1.24 | 0.27 | 34.9 |
| 5/2/2015 0:31:59 | 46.59 | 39.59 | 634 | 1.24 | 0.27 | 34.7 |
| 5/2/2015 0:32:00 | 46.92 | 39.92 | 638 | 1.19 | 0.25 | 34.9 |
| 5/2/2015 0:32:00 | 47.24 | 40.24 | 642 | 1.13 | 0.22 | 35.1 |
| 5/2/2015 0:32:01 | 47.57 | 40.57 | 650 | 1.18 | 0.25 | 35.6 |
| 5/2/2015 0:32:01 | 47.90 | 40.90 | 656 | 1.19 | 0.25 | 35.9 |
| 5/2/2015 0:32:02 | 48.23 | 41.23 | 665 | 1.19 | 0.25 | 36.3 |
| 5/2/2015 0:32:02 | 48.56 | 41.56 | 670 | 1.20 | 0.24 | 36.6 |
| 5/2/2015 0:32:03 | 48.88 | 41.88 | 679 | 1.19 | 0.24 | 37.1 |
| 5/2/2015 0:32:03 | 49.21 | 42.21 | 675 | 1.17 | 0.23 | 36.9 |
| 5/2/2015 0:32:04 | 49.54 | 42.54 | 683 | 1.12 | 0.21 | 37.3 |
| 5/2/2015 0:32:04 | 49.87 | 42.87 | 683 | 1.14 | 0.21 | 37.3 |
| 5/2/2015 0:32:05 | 50.20 | 43.20 | 688 | 1.13 | 0.20 | 37.6 |
| 5/2/2015 0:32:05 | 50.53 | 43.53 | 688 | 1.22 | 0.27 | 37.6 |
| 5/2/2015 0:32:06 | 50.85 | 43.85 | 687 | 1.19 | 0.25 | 37.5 |
| 5/2/2015 0:32:07 | 51.18 | 44.18 | 672 | 1.24 | 0.27 | 36.8 |
| 5/2/2015 0:32:07 | 51.51 | 44.51 | 667 | 1.13 | 0.21 | 36.5 |
| 5/2/2015 0:32:08 | 51.84 | 44.84 | 661 | 1.12 | 0.21 | 36.1 |
| 5/2/2015 0:32:08 | 52.17 | 45.17 | 662 | 1.12 | 0.19 | 36.2 |
| 5/2/2015 0:32:09 | 52.49 | 45.49 | 671 | 1.16 | 0.21 | 36.7 |
| 5/2/2015 0:32:09 | 52.82 | 45.82 | 677 | 1.11 | 0.20 | 37.0 |
| 5/2/2015 0:32:10 | 53.15 | 46.15 | 675 | 1.14 | 0.21 | 36.9 |
| 5/2/2015 0:32:10 | 53.48 | 46.48 | 675 | 1.22 | 0.25 | 36.9 |
| 5/2/2015 0:32:11 | 53.81 | 46.81 | 676 | 1.12 | 0.21 | 37.0 |
| 5/2/2015 0:32:11 | 54.13 | 47.13 | 672 | 1.13 | 0.21 | 36.7 |
| 5/2/2015 0:32:12 | 54.46 | 47.46 | 670 | 1.12 | 0.21 | 36.6 |
| 5/2/2015 0:32:12 | 54.79 | 47.79 | 671 | 1.12 | 0.20 | 36.7 |
| 5/2/2015 0:32:13 | 55.12 | 48.12 | 673 | 1.13 | 0.20 | 36.8 |
| 5/2/2015 0:32:13 | 55.45 | 48.45 | 656 | 1.11 | 0.20 | 35.8 |
| 5/2/2015 0:32:14 | 55.77 | 48.77 | 651 | 1.11 | 0.20 | 35.6 |
| 5/2/2015 0:32:15 | 56.10 | 49.10 | 629 | 1.15 | 0.21 | 34.4 |
| 5/2/2015 0:32:16 | 56.43 | 49.43 | 629 | 1.13 | 0.20 | 34.4 |
| 5/2/2015 0:32:16 | 56.76 | 49.76 | 611 | 1.13 | 0.21 | 33.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:32:17 | 57.09 | 50.09 | 602 | 1.14 | 0.21 | 32.9 |
| 5/2/2015 | 0:32:26 | 57.41 | 50.41 | 11 | 1.17 | 1.18 | 0.6 |
| 5/2/2015 | 0:32:30 | 57.74 | 50.74 | 118 | 1.20 | 1.28 | 6.4 |
| 5/2/2015 | 0:32:32 | 58.07 | 51.07 | 133 | 1.12 | 1.24 | 7.3 |
| 5/2/2015 | 0:32:36 | 58.40 | 51.40 | 69 | 1.13 | 1.32 | 3.8 |
| 5/2/2015 | 0:32:40 | 58.73 | 51.73 | 110 | 1.17 | 1.20 | 6.0 |
| 5/2/2015 | 0:32:41 | 59.06 | 52.06 | 162 | 1.10 | 1.26 | 8.8 |
| 5/2/2015 | 0:32:44 | 59.38 | 52.38 | 125 | 1.11 | 1.15 | 6.8 |
| 5/2/2015 | 0:32:56 | 59.71 | 52.71 | 38 | 1.16 | 1.09 | 2.1 |
| 5/2/2015 | 0:33:05 | 60.04 | 53.04 | 23 | 1.14 | 0.88 | 1.3 |
| 5/2/2015 | 0:33:13 | 60.37 | 53.37 | 87 | 1.08 | 1.08 | 4.8 |
| 5/2/2015 | 0:33:22 | 60.70 | 53.70 | 32 | 1.17 | 0.93 | 1.7 |
| 5/2/2015 | 0:33:34 | 61.02 | 54.02 | 26 | 1.15 | 0.90 | 1.4 |
| 5/2/2015 | 0:33:45 | 61.35 | 54.35 | 23 | 1.12 | 0.89 | 1.3 |
| 5/2/2015 | 0:33:49 | 61.49 | 54.49 | 37 | 1.09 | 0.85 | 2.0 |

## M31 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:22:36

**End Date:**
5/2/2015 0:35:03

**Operator Note:**
'7 7 a Auto Complete'

**Northing:**
359,166.70

**Easting:**
240,356.50

**Tide (feet):**
7.00



## Hole: M32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:32:37 | 37.07 | 30.17 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/2/2015 0:32:37 | 37.40 | 30.50 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/2/2015 0:32:37 | 37.73 | 30.83 | 1,123 | 0.31 | 0.38 | 61.4 |
| 5/2/2015 0:32:38 | 38.06 | 31.16 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 0:32:38 | 38.39 | 31.49 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 0:32:38 | 38.71 | 31.81 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/2/2015 0:32:39 | 39.04 | 32.14 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/2/2015 0:32:39 | 39.37 | 32.47 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 0:32:39 | 39.70 | 32.80 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 0:32:40 | 40.03 | 33.13 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 0:32:40 | 40.35 | 33.45 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 0:32:40 | 40.68 | 33.78 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 0:32:40 | 41.01 | 34.11 | 1,126 | 0.32 | 0.38 | 61.5 |
| 5/2/2015 0:32:41 | 41.34 | 34.44 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/2/2015 0:32:41 | 41.67 | 34.77 | 1,137 | 0.31 | 0.38 | 62.2 |
| 5/2/2015 0:32:41 | 41.99 | 35.09 | 1,141 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 0:32:42 | 42.32 | 35.42 | 1,141 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 0:32:42 | 42.65 | 35.75 | 1,138 | 0.32 | 0.38 | 62.2 |
| 5/2/2015 0:32:42 | 42.98 | 36.08 | 1,154 | 0.34 | 0.38 | 63.1 |
| 5/2/2015 0:32:43 | 43.31 | 36.41 | 1,154 | 0.34 | 0.38 | 63.1 |
| 5/2/2015 0:32:43 | 43.64 | 36.74 | 1,160 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 0:32:44 | 43.96 | 37.06 | 1,160 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 0:32:44 | 44.29 | 37.39 | 1,153 | 0.32 | 0.37 | 63.1 |
| 5/2/2015 0:32:44 | 44.62 | 37.72 | 1,133 | 0.32 | 0.38 | 61.9 |
| 5/2/2015 0:32:45 | 44.95 | 38.05 | 1,133 | 0.32 | 0.38 | 61.9 |
| 5/2/2015 0:32:45 | 45.28 | 38.38 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/2/2015 0:32:45 | 45.60 | 38.70 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/2/2015 0:32:45 | 45.93 | 39.03 | 1,127 | 0.32 | 0.37 | 61.6 |
| 5/2/2015 0:32:46 | 46.26 | 39.36 | 1,137 | 0.32 | 0.38 | 62.2 |
| 5/2/2015 0:32:46 | 46.59 | 39.69 | 1,137 | 0.32 | 0.38 | 62.2 |
| 5/2/2015 0:32:46 | 46.92 | 40.02 | 1,127 | 0.31 | 0.38 | 61.6 |
| 5/2/2015 0:32:47 | 47.24 | 40.34 | 1,127 | 0.31 | 0.38 | 61.6 |
| 5/2/2015 0:32:47 | 47.57 | 40.67 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 0:32:47 | 47.90 | 41.00 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 0:32:48 | 48.23 | 41.33 | 1,136 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 0:32:48 | 48.56 | 41.66 | 1,139 | 0.33 | 0.39 | 62.3 |
| 5/2/2015 0:32:48 | 48.88 | 41.98 | 1,139 | 0.33 | 0.39 | 62.3 |
| 5/2/2015 0:32:48 | 49.21 | 42.31 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 0:32:49 | 49.54 | 42.64 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 0:32:49 | 49.87 | 42.97 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 0:32:49 | 50.20 | 43.30 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/2/2015 0:32:50 | 50.53 | 43.63 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/2/2015 0:32:50 | 50.85 | 43.95 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/2/2015 0:32:50 | 51.18 | 44.28 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 0:32:51 | 51.51 | 44.61 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 0:32:51 | 51.84 | 44.94 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 0:32:51 | 52.17 | 45.27 | 1,142 | 0.32 | 0.38 | 62.4 |
| 5/2/2015 0:32:51 | 52.49 | 45.59 | 1,136 | 0.33 | 0.38 | 62.1 |
| 5/2/2015 0:32:52 | 52.82 | 45.92 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:32:52 | 53.15 | 46.25 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:32:52 | 53.48 | 46.58 | 1,125 | 0.32 | 0.38 | 61.5 |
| 5/2/2015 0:32:53 | 53.81 | 46.91 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/2/2015 0:32:54 | 54.13 | 47.23 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/2/2015 0:32:54 | 54.46 | 47.56 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 0:32:54 | 54.79 | 47.89 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 0:32:54 | 55.12 | 48.22 | 1,096 | 0.32 | 0.38 | 59.9 |
| 5/2/2015 0:32:55 | 55.45 | 48.55 | 1,075 | 0.32 | 0.39 | 58.8 |
| 5/2/2015 0:32:55 | 55.77 | 48.87 | 1,075 | 0.32 | 0.39 | 58.8 |
| 5/2/2015 0:32:55 | 56.10 | 49.20 | 1,075 | 0.32 | 0.38 | 58.8 |
| 5/2/2015 0:32:56 | 56.43 | 49.53 | 1,064 | 0.32 | 0.39 | 58.2 |
| 5/2/2015 0:32:56 | 56.76 | 49.86 | 1,064 | 0.32 | 0.39 | 58.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:32:56 | 57.09 | 50.19 | 1,052 | 0.32 | 0.39 | 57.5 |
| 5/2/2015 | 0:32:57 | 57.41 | 50.51 | 1,041 | 0.32 | 0.39 | 56.9 |
| 5/2/2015 | 0:32:57 | 57.74 | 50.84 | 1,041 | 0.32 | 0.39 | 56.9 |
| 5/2/2015 | 0:32:57 | 58.07 | 51.17 | 1,029 | 0.32 | 0.39 | 56.3 |
| 5/2/2015 | 0:32:58 | 58.40 | 51.50 | 1,017 | 0.32 | 0.39 | 55.6 |
| 5/2/2015 | 0:32:58 | 58.73 | 51.83 | 1,017 | 0.32 | 0.39 | 55.6 |
| 5/2/2015 | 0:32:58 | 59.06 | 52.16 | 1,006 | 0.32 | 0.38 | 55.0 |
| 5/2/2015 | 0:32:59 | 59.38 | 52.48 | 992 | 0.31 | 0.39 | 54.2 |
| 5/2/2015 | 0:32:59 | 59.71 | 52.81 | 992 | 0.32 | 0.39 | 54.2 |
| 5/2/2015 | 0:33:00 | 60.04 | 53.14 | 992 | 0.32 | 0.39 | 54.2 |
| 5/2/2015 | 0:33:08 | 60.37 | 53.47 | 29 | 3.54 | 0.40 | 1.6 |
| 5/2/2015 | 0:33:08 | 60.70 | 53.80 | 176 | 2.81 | 0.41 | 9.6 |
| 5/2/2015 | 0:33:09 | 61.02 | 54.12 | 176 | 2.81 | 0.41 | 9.6 |
| 5/2/2015 | 0:33:10 | 61.35 | 54.45 | 399 | 3.94 | 0.45 | 21.8 |
| 5/2/2015 | 0:33:12 | 61.68 | 54.78 | 177 | 3.94 | 0.45 | 9.7 |
| 5/2/2015 | 0:33:13 | 62.01 | 55.11 | 211 | 4.44 | 0.46 | 11.5 |

## M32 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:31:01

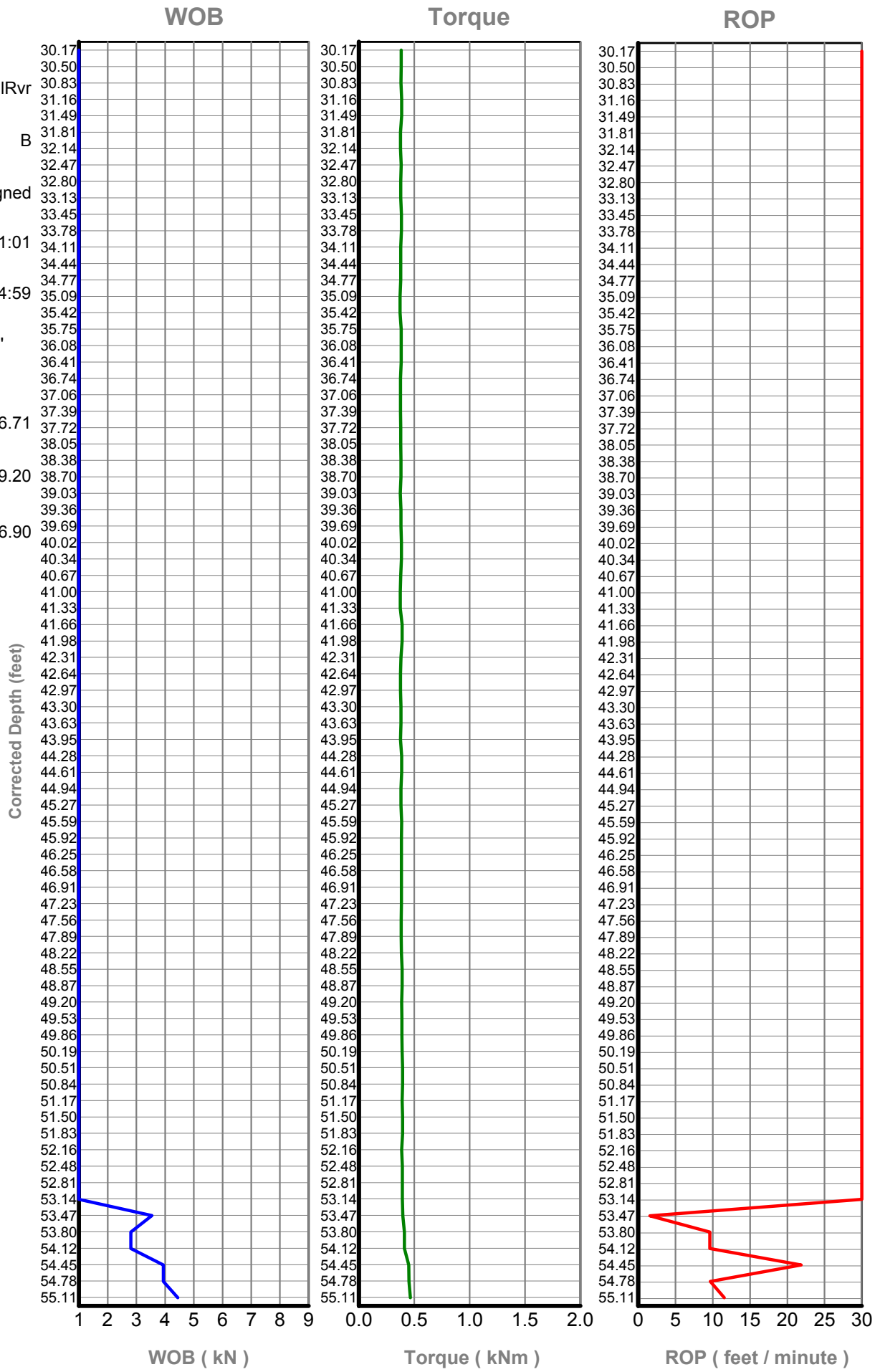
**End Date:**
5/2/2015 0:34:59

**Operator Note:**
'6.9 7.0b Auto Complete'

**Northing:**
359,206.71

**Easting:**
240,419.20

**Tide (feet):**
6.90



## Hole: M33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:31:07 | 37.07 | 30.17 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 0:31:07 | 37.40 | 30.50 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 0:31:08 | 37.73 | 30.83 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 0:31:08 | 38.06 | 31.16 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:31:08 | 38.39 | 31.49 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:31:09 | 38.71 | 31.81 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:31:09 | 39.04 | 32.14 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 0:31:09 | 39.37 | 32.47 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:10 | 39.70 | 32.80 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:10 | 40.03 | 33.13 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:11 | 40.35 | 33.45 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:11 | 40.68 | 33.78 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:11 | 41.01 | 34.11 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:12 | 41.34 | 34.44 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:12 | 41.67 | 34.77 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:12 | 41.99 | 35.09 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 0:31:13 | 42.32 | 35.42 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:13 | 42.65 | 35.75 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:13 | 42.98 | 36.08 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 0:31:14 | 43.31 | 36.41 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:14 | 43.64 | 36.74 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:14 | 43.96 | 37.06 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:15 | 44.29 | 37.39 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:15 | 44.62 | 37.72 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:15 | 44.95 | 38.05 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:16 | 45.28 | 38.38 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:31:16 | 45.60 | 38.70 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:31:17 | 45.93 | 39.03 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:31:17 | 46.26 | 39.36 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:31:17 | 46.59 | 39.69 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:18 | 46.92 | 40.02 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:18 | 47.24 | 40.34 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:31:18 | 47.57 | 40.67 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:19 | 47.90 | 41.00 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 0:31:19 | 48.23 | 41.33 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 0:31:19 | 48.56 | 41.66 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:20 | 48.88 | 41.98 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:20 | 49.21 | 42.31 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:31:20 | 49.54 | 42.64 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:31:21 | 49.87 | 42.97 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:31:21 | 50.20 | 43.30 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:31:22 | 50.53 | 43.63 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:22 | 50.85 | 43.95 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:31:22 | 51.18 | 44.28 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:31:23 | 51.51 | 44.61 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:31:23 | 51.84 | 44.94 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:31:23 | 52.17 | 45.27 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:31:24 | 52.49 | 45.59 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:31:24 | 52.82 | 45.92 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:31:24 | 53.15 | 46.25 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:31:25 | 53.48 | 46.58 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:31:25 | 53.81 | 46.91 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:31:25 | 54.13 | 47.23 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:31:26 | 54.46 | 47.56 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:31:26 | 54.79 | 47.89 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 0:31:27 | 55.12 | 48.22 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 0:31:27 | 55.45 | 48.55 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 0:31:27 | 55.77 | 48.87 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 0:31:28 | 56.10 | 49.20 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 0:31:28 | 56.43 | 49.53 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 0:31:28 | 56.76 | 49.86 | 909 | 1.14 | 0.29 | 49.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:31:38 | 57.09 | 50.19 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 0:31:40 | 57.41 | 50.51 | 163 | 1.14 | 0.29 | 8.9 |
| 5/2/2015 | 0:31:42 | 57.74 | 50.84 | 154 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 | 0:31:46 | 58.07 | 51.17 | 116 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 | 0:31:49 | 58.40 | 51.50 | 110 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 | 0:31:52 | 58.73 | 51.83 | 102 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 | 0:31:56 | 59.06 | 52.16 | 84 | 1.14 | 0.29 | 4.6 |
| 5/2/2015 | 0:32:01 | 59.38 | 52.48 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 0:32:06 | 59.71 | 52.81 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 0:32:10 | 60.04 | 53.14 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 | 0:32:13 | 60.37 | 53.47 | 122 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 | 0:32:15 | 60.70 | 53.80 | 151 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 | 0:32:21 | 61.02 | 54.12 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 0:32:28 | 61.35 | 54.45 | 54 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 0:32:35 | 61.68 | 54.78 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 | 0:32:43 | 62.00 | 55.10 | 52 | 1.14 | 0.29 | 2.9 |

## M33 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:30:08

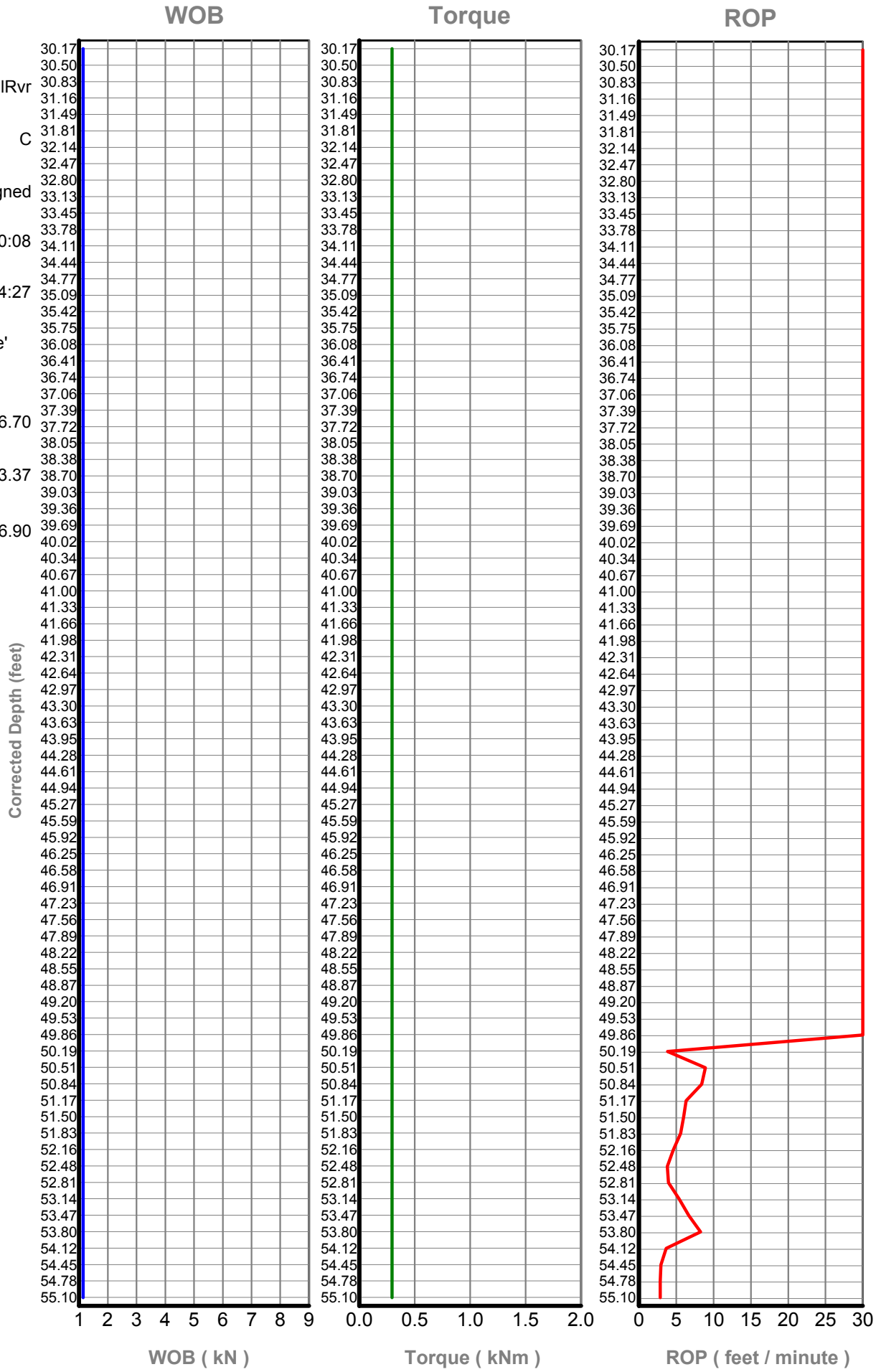
**End Date:**
5/2/2015 0:34:27

**Operator Note:**
'6.9 7.0 c Auto Complete'

**Northing:**
359,246.70

**Easting:**
240,483.37

**Tide (feet):**
6.90



## Hole: M34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:08:00 | 37.07 | 30.27 | 618 | 1.51 | 0.26 | 33.8 |
| 5/1/2015 23:08:01 | 37.40 | 30.60 | 386 | 1.22 | 0.27 | 21.1 |
| 5/1/2015 23:08:02 | 37.73 | 30.93 | 390 | 1.24 | 0.26 | 21.3 |
| 5/1/2015 23:08:03 | 38.06 | 31.26 | 436 | 1.22 | 0.26 | 23.8 |
| 5/1/2015 23:08:03 | 38.39 | 31.59 | 491 | 1.21 | 0.26 | 26.8 |
| 5/1/2015 23:08:04 | 38.71 | 31.91 | 564 | 1.21 | 0.26 | 30.8 |
| 5/1/2015 23:08:04 | 39.04 | 32.24 | 578 | 1.21 | 0.26 | 31.6 |
| 5/1/2015 23:08:05 | 39.37 | 32.57 | 599 | 1.21 | 0.26 | 32.7 |
| 5/1/2015 23:08:05 | 39.70 | 32.90 | 607 | 1.23 | 0.26 | 33.2 |
| 5/1/2015 23:08:06 | 40.03 | 33.23 | 618 | 1.21 | 0.26 | 33.8 |
| 5/1/2015 23:08:07 | 40.35 | 33.55 | 639 | 1.20 | 0.26 | 34.9 |
| 5/1/2015 23:08:08 | 40.68 | 33.88 | 639 | 1.21 | 0.26 | 34.9 |
| 5/1/2015 23:08:08 | 41.01 | 34.21 | 642 | 1.21 | 0.26 | 35.1 |
| 5/1/2015 23:08:09 | 41.34 | 34.54 | 642 | 1.21 | 0.26 | 35.1 |
| 5/1/2015 23:08:09 | 41.67 | 34.87 | 648 | 1.21 | 0.26 | 35.5 |
| 5/1/2015 23:08:10 | 41.99 | 35.19 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:08:10 | 42.32 | 35.52 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:08:11 | 42.65 | 35.85 | 645 | 1.21 | 0.26 | 35.2 |
| 5/1/2015 23:08:11 | 42.98 | 36.18 | 647 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:08:12 | 43.31 | 36.51 | 647 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 23:08:12 | 43.64 | 36.84 | 641 | 1.21 | 0.26 | 35.0 |
| 5/1/2015 23:08:13 | 43.96 | 37.16 | 644 | 1.20 | 0.27 | 35.2 |
| 5/1/2015 23:08:13 | 44.29 | 37.49 | 648 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 23:08:14 | 44.62 | 37.82 | 648 | 1.21 | 0.26 | 35.4 |
| 5/1/2015 23:08:14 | 44.95 | 38.15 | 645 | 1.21 | 0.26 | 35.3 |
| 5/1/2015 23:08:15 | 45.28 | 38.48 | 649 | 1.21 | 0.26 | 35.5 |
| 5/1/2015 23:08:16 | 45.60 | 38.80 | 642 | 1.12 | 0.20 | 35.1 |
| 5/1/2015 23:08:16 | 45.93 | 39.13 | 647 | 1.13 | 0.22 | 35.4 |
| 5/1/2015 23:08:17 | 46.26 | 39.46 | 655 | 1.13 | 0.20 | 35.8 |
| 5/1/2015 23:08:18 | 46.59 | 39.79 | 655 | 1.13 | 0.20 | 35.8 |
| 5/1/2015 23:08:17 | 46.92 | 40.12 | 672 | 1.11 | 0.20 | 36.7 |
| 5/1/2015 23:08:18 | 47.24 | 40.44 | 685 | 1.11 | 0.20 | 37.5 |
| 5/1/2015 23:08:19 | 47.57 | 40.77 | 700 | 1.11 | 0.20 | 38.3 |
| 5/1/2015 23:08:19 | 47.90 | 41.10 | 702 | 1.11 | 0.20 | 38.4 |
| 5/1/2015 23:08:20 | 48.23 | 41.43 | 708 | 1.13 | 0.20 | 38.7 |
| 5/1/2015 23:08:20 | 48.56 | 41.76 | 707 | 1.10 | 0.20 | 38.6 |
| 5/1/2015 23:08:21 | 48.88 | 42.08 | 697 | 1.14 | 0.20 | 38.1 |
| 5/1/2015 23:08:21 | 49.21 | 42.41 | 702 | 1.11 | 0.20 | 38.4 |
| 5/1/2015 23:08:22 | 49.54 | 42.74 | 709 | 1.12 | 0.20 | 38.8 |
| 5/1/2015 23:08:22 | 49.87 | 43.07 | 706 | 1.11 | 0.20 | 38.6 |
| 5/1/2015 23:08:23 | 50.20 | 43.40 | 709 | 1.11 | 0.20 | 38.8 |
| 5/1/2015 23:08:23 | 50.53 | 43.73 | 714 | 1.11 | 0.20 | 39.1 |
| 5/1/2015 23:08:24 | 50.85 | 44.05 | 705 | 1.11 | 0.20 | 38.6 |
| 5/1/2015 23:08:24 | 51.18 | 44.38 | 702 | 1.11 | 0.20 | 38.4 |
| 5/1/2015 23:08:25 | 51.51 | 44.71 | 700 | 1.11 | 0.20 | 38.3 |
| 5/1/2015 23:08:25 | 51.84 | 45.04 | 695 | 1.10 | 0.20 | 38.0 |
| 5/1/2015 23:08:26 | 52.17 | 45.37 | 699 | 1.12 | 0.20 | 38.3 |
| 5/1/2015 23:08:26 | 52.49 | 45.69 | 697 | 1.10 | 0.20 | 38.1 |
| 5/1/2015 23:08:27 | 52.82 | 46.02 | 697 | 1.11 | 0.20 | 38.1 |
| 5/1/2015 23:08:27 | 53.15 | 46.35 | 697 | 1.11 | 0.20 | 38.1 |
| 5/1/2015 23:08:28 | 53.48 | 46.68 | 698 | 1.11 | 0.20 | 38.2 |
| 5/1/2015 23:08:29 | 53.81 | 47.01 | 691 | 1.11 | 0.20 | 37.8 |
| 5/1/2015 23:08:29 | 54.13 | 47.33 | 688 | 1.11 | 0.20 | 37.6 |
| 5/1/2015 23:08:30 | 54.46 | 47.66 | 678 | 1.11 | 0.20 | 37.1 |
| 5/1/2015 23:08:30 | 54.79 | 47.99 | 674 | 1.11 | 0.20 | 36.8 |
| 5/1/2015 23:08:31 | 55.12 | 48.32 | 658 | 1.12 | 0.20 | 36.0 |
| 5/1/2015 23:08:31 | 55.45 | 48.65 | 653 | 1.11 | 0.20 | 35.7 |
| 5/1/2015 23:08:32 | 55.77 | 48.97 | 642 | 1.11 | 0.20 | 35.1 |
| 5/1/2015 23:08:33 | 56.10 | 49.30 | 619 | 1.11 | 0.20 | 33.8 |
| 5/1/2015 23:08:33 | 56.43 | 49.63 | 611 | 1.14 | 0.20 | 33.4 |
| 5/1/2015 23:08:34 | 56.76 | 49.96 | 586 | 1.15 | 0.20 | 32.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:09:24 | 57.09 | 50.29 | 75 | 1.10 | 1.18 | 4.1 |
| 5/1/2015 | 23:09:27 | 57.41 | 50.61 | 87 | 1.05 | 1.18 | 4.7 |
| 5/1/2015 | 23:09:32 | 57.74 | 50.94 | 75 | 1.07 | 1.20 | 4.1 |
| 5/1/2015 | 23:09:36 | 58.07 | 51.27 | 95 | 1.06 | 1.16 | 5.2 |
| 5/1/2015 | 23:09:39 | 58.40 | 51.60 | 102 | 1.04 | 1.18 | 5.6 |
| 5/1/2015 | 23:09:43 | 58.73 | 51.93 | 98 | 1.05 | 1.01 | 5.3 |
| 5/1/2015 | 23:09:47 | 59.06 | 52.26 | 92 | 1.09 | 1.04 | 5.0 |
| 5/1/2015 | 23:09:52 | 59.38 | 52.58 | 84 | 1.07 | 1.04 | 4.6 |
| 5/1/2015 | 23:09:55 | 59.71 | 52.91 | 95 | 0.97 | 1.03 | 5.2 |
| 5/1/2015 | 23:09:59 | 60.04 | 53.24 | 90 | 1.05 | 1.11 | 4.9 |
| 5/1/2015 | 23:10:04 | 60.37 | 53.57 | 75 | 1.07 | 1.01 | 4.1 |
| 5/1/2015 | 23:10:07 | 60.70 | 53.90 | 93 | 1.05 | 0.90 | 5.1 |
| 5/1/2015 | 23:10:12 | 61.02 | 54.22 | 78 | 1.05 | 1.06 | 4.3 |
| 5/1/2015 | 23:10:17 | 61.35 | 54.55 | 75 | 1.09 | 1.03 | 4.1 |
| 5/1/2015 | 23:10:23 | 61.68 | 54.88 | 45 | 1.17 | 1.12 | 2.5 |
| 5/1/2015 | 23:10:35 | 61.79 | 54.99 | 14 | 1.12 | 1.11 | 0.8 |

## M34 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:00:55

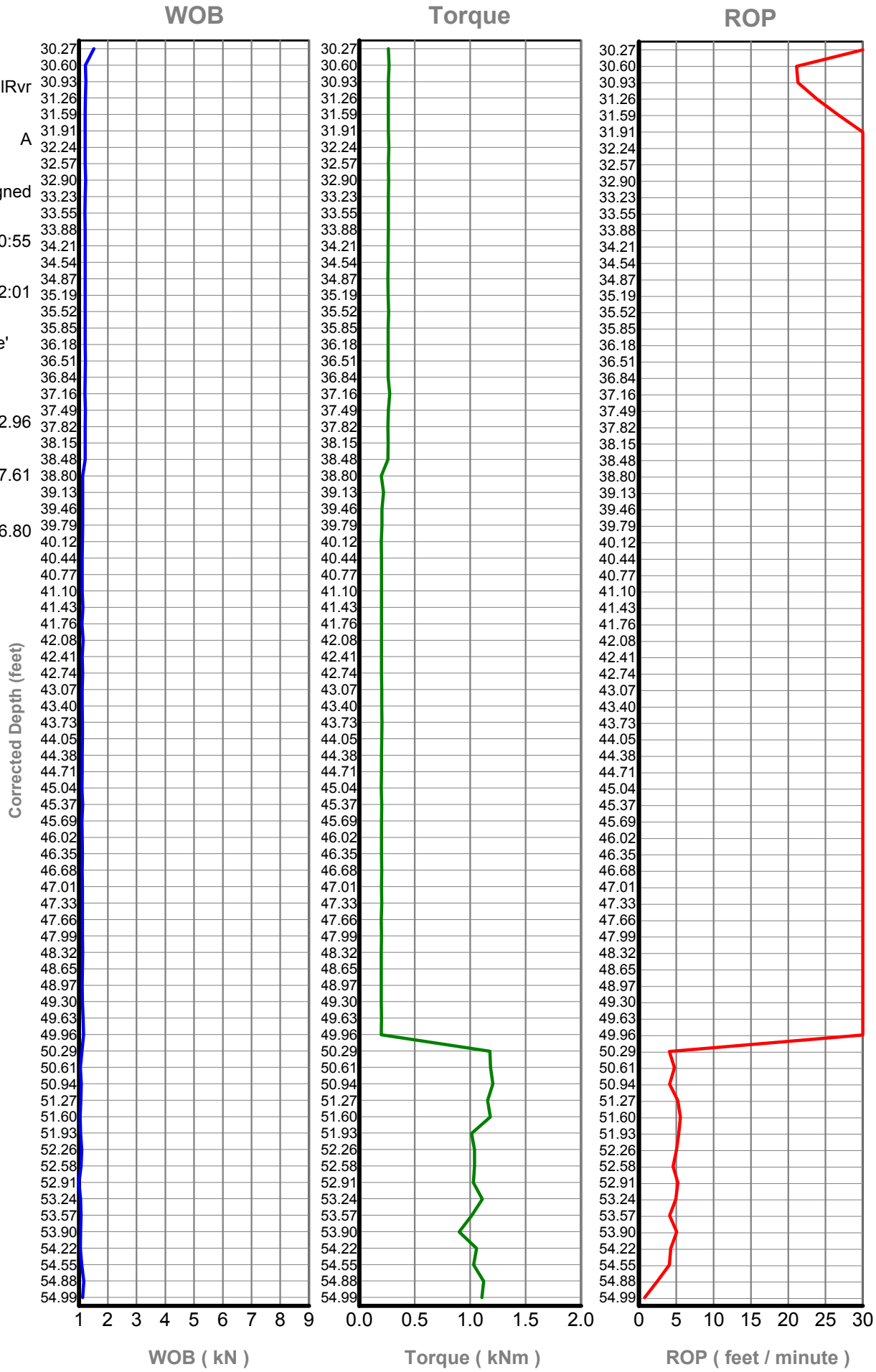
**End Date:**
5/1/2015 23:12:01

**Operator Note:**
'6.8 6.8 a Auto Complete'

**Northing:**
359,292.96

**Easting:**
240,547.61

**Tide (feet):**
6.80



## Hole: M35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:08:51 | 37.07 | 30.17 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/1/2015 23:08:52 | 37.40 | 30.50 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/1/2015 23:08:52 | 37.73 | 30.83 | 1,121 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 23:08:52 | 38.06 | 31.16 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 23:08:53 | 38.39 | 31.49 | 1,125 | 0.33 | 0.37 | 61.5 |
| 5/1/2015 23:08:53 | 38.71 | 31.81 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 23:08:53 | 39.04 | 32.14 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 23:08:53 | 39.37 | 32.47 | 1,121 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 23:08:54 | 39.70 | 32.80 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:08:55 | 40.03 | 33.13 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:08:55 | 40.35 | 33.45 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:08:55 | 40.68 | 33.78 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:08:55 | 41.01 | 34.11 | 1,117 | 0.31 | 0.37 | 61.1 |
| 5/1/2015 23:08:56 | 41.34 | 34.44 | 1,131 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 23:08:56 | 41.67 | 34.77 | 1,131 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 23:08:56 | 41.99 | 35.09 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:08:57 | 42.32 | 35.42 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:08:57 | 42.65 | 35.75 | 1,128 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:08:57 | 42.98 | 36.08 | 1,128 | 0.32 | 0.38 | 61.7 |
| 5/1/2015 23:08:58 | 43.31 | 36.41 | 1,128 | 0.32 | 0.38 | 61.7 |
| 5/1/2015 23:08:58 | 43.64 | 36.74 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 23:08:58 | 43.96 | 37.06 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 23:08:58 | 44.29 | 37.39 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/1/2015 23:08:59 | 44.62 | 37.72 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:08:59 | 44.95 | 38.05 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 23:08:59 | 45.28 | 38.38 | 1,133 | 0.31 | 0.38 | 62.0 |
| 5/1/2015 23:09:00 | 45.60 | 38.70 | 1,130 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 23:09:00 | 45.93 | 39.03 | 1,130 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 23:09:00 | 46.26 | 39.36 | 1,128 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:09:01 | 46.59 | 39.69 | 1,128 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:09:01 | 46.92 | 40.02 | 1,125 | 0.32 | 0.37 | 61.5 |
| 5/1/2015 23:09:01 | 47.24 | 40.34 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:09:02 | 47.57 | 40.67 | 1,127 | 0.32 | 0.37 | 61.7 |
| 5/1/2015 23:09:02 | 47.90 | 41.00 | 1,118 | 0.32 | 0.37 | 61.1 |
| 5/1/2015 23:09:02 | 48.23 | 41.33 | 1,118 | 0.32 | 0.37 | 61.1 |
| 5/1/2015 23:09:02 | 48.56 | 41.66 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 23:09:03 | 48.88 | 41.98 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 23:09:03 | 49.21 | 42.31 | 1,130 | 0.31 | 0.37 | 61.8 |
| 5/1/2015 23:09:03 | 49.54 | 42.64 | 1,133 | 0.58 | 0.37 | 62.0 |
| 5/1/2015 23:09:04 | 49.87 | 42.97 | 1,133 | 0.58 | 0.37 | 62.0 |
| 5/1/2015 23:09:04 | 50.20 | 43.30 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 23:09:05 | 50.53 | 43.63 | 1,143 | 0.32 | 0.38 | 62.5 |
| 5/1/2015 23:09:05 | 50.85 | 43.95 | 1,143 | 0.32 | 0.38 | 62.5 |
| 5/1/2015 23:09:05 | 51.18 | 44.28 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:09:06 | 51.51 | 44.61 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/1/2015 23:09:06 | 51.84 | 44.94 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/1/2015 23:09:06 | 52.17 | 45.27 | 1,121 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 23:09:07 | 52.49 | 45.59 | 1,121 | 0.32 | 0.38 | 61.3 |
| 5/1/2015 23:09:07 | 52.82 | 45.92 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:09:07 | 53.15 | 46.25 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/1/2015 23:09:07 | 53.48 | 46.58 | 1,118 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 23:09:08 | 53.81 | 46.91 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 23:09:08 | 54.13 | 47.23 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/1/2015 23:09:08 | 54.46 | 47.56 | 1,113 | 0.31 | 0.39 | 60.9 |
| 5/1/2015 23:09:09 | 54.79 | 47.89 | 1,114 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 23:09:09 | 55.12 | 48.22 | 1,114 | 0.33 | 0.38 | 60.9 |
| 5/1/2015 23:09:09 | 55.45 | 48.55 | 1,093 | 0.32 | 0.38 | 59.8 |
| 5/1/2015 23:09:10 | 55.77 | 48.87 | 1,062 | 0.31 | 0.39 | 58.1 |
| 5/1/2015 23:09:10 | 56.10 | 49.20 | 1,062 | 0.31 | 0.39 | 58.1 |
| 5/1/2015 23:09:10 | 56.43 | 49.53 | 1,062 | 0.31 | 0.39 | 58.1 |
| 5/1/2015 23:09:11 | 56.76 | 49.86 | 1,051 | 0.31 | 0.39 | 57.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:09:11 | 57.09 | 50.19 | 1,051 | 0.31 | 0.39 | 57.4 |
| 5/1/2015 | 23:09:11 | 57.41 | 50.51 | 1,030 | 0.32 | 0.39 | 56.3 |
| 5/1/2015 | 23:09:12 | 57.74 | 50.84 | 996 | 0.29 | 0.47 | 54.4 |
| 5/1/2015 | 23:09:22 | 58.07 | 51.17 | 46 | 4.04 | 0.45 | 2.5 |
| 5/1/2015 | 23:09:26 | 58.40 | 51.50 | 95 | 4.01 | 0.48 | 5.2 |
| 5/1/2015 | 23:09:30 | 58.73 | 51.83 | 82 | 3.83 | 0.46 | 4.5 |
| 5/1/2015 | 23:09:34 | 59.06 | 52.16 | 72 | 3.91 | 0.46 | 4.0 |
| 5/1/2015 | 23:09:40 | 59.38 | 52.48 | 63 | 3.60 | 0.47 | 3.5 |
| 5/1/2015 | 23:09:45 | 59.71 | 52.81 | 58 | 3.68 | 0.46 | 3.1 |
| 5/1/2015 | 23:09:51 | 60.04 | 53.14 | 72 | 3.83 | 0.47 | 3.9 |
| 5/1/2015 | 23:09:58 | 60.37 | 53.47 | 40 | 3.96 | 0.46 | 2.2 |
| 5/1/2015 | 23:10:02 | 60.70 | 53.80 | 93 | 3.54 | 0.47 | 5.1 |
| 5/1/2015 | 23:10:06 | 61.02 | 54.12 | 78 | 3.58 | 0.46 | 4.3 |
| 5/1/2015 | 23:10:12 | 61.35 | 54.45 | 69 | 3.47 | 0.47 | 3.8 |
| 5/1/2015 | 23:10:17 | 61.68 | 54.78 | 72 | 3.84 | 0.47 | 4.0 |
| 5/1/2015 | 23:10:19 | 61.79 | 54.89 | 72 | 4.26 | 0.47 | 4.0 |

## M35 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:07:17

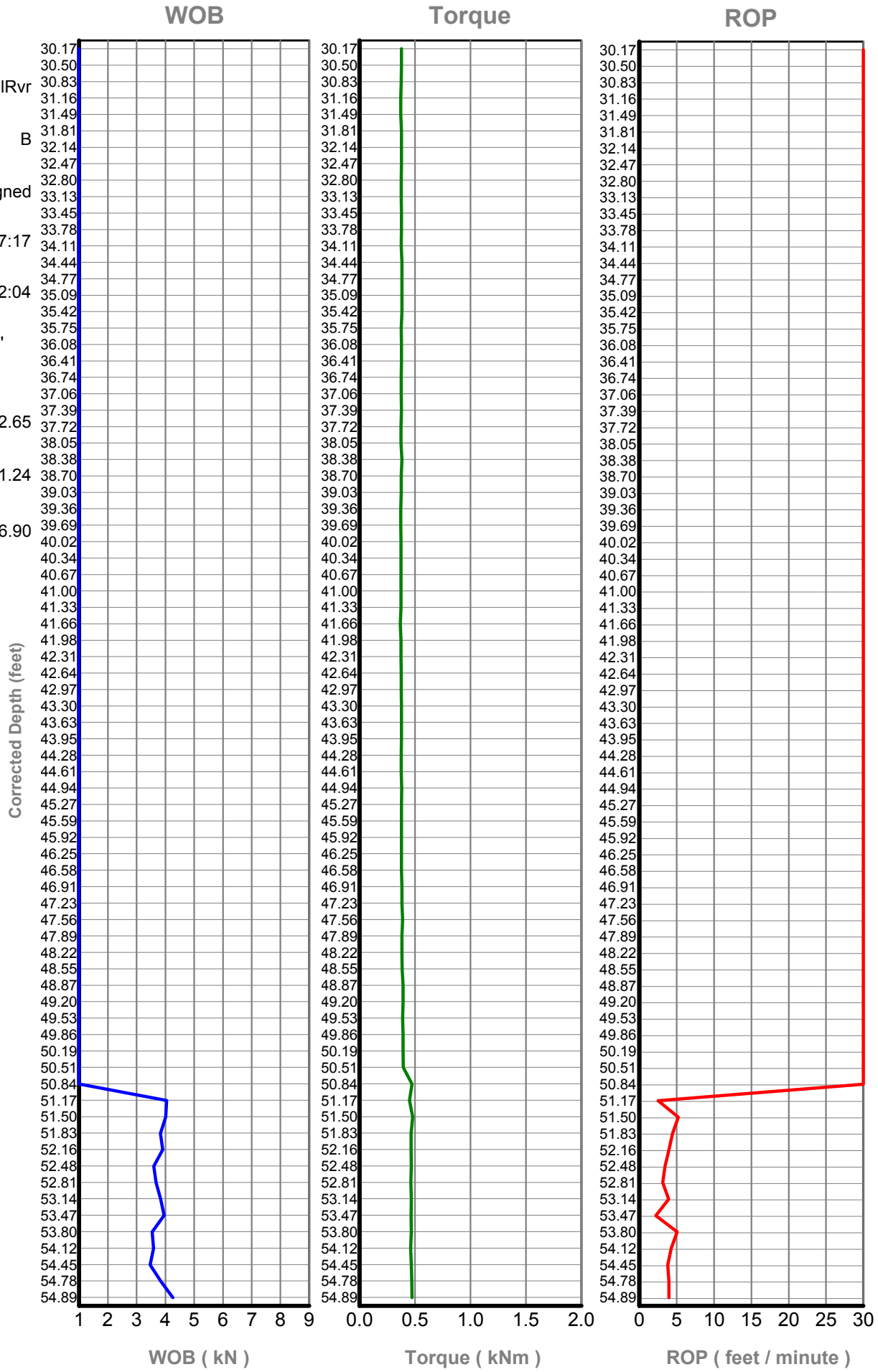
**End Date:**
5/1/2015 23:12:04

**Operator Note:**
'6.9 6.8b Auto Complete'

**Northing:**
359,332.65

**Easting:**
240,611.24

**Tide (feet):**
6.90



## Hole: M36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 23:07:29 | 37.07 | 30.17 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:29 | 37.40 | 30.50 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:30 | 37.73 | 30.83 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:30 | 38.06 | 31.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:07:30 | 38.39 | 31.49 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 23:07:31 | 38.71 | 31.81 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 23:07:31 | 39.04 | 32.14 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 23:07:31 | 39.37 | 32.47 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 23:07:32 | 39.70 | 32.80 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 23:07:32 | 40.03 | 33.13 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 23:07:32 | 40.35 | 33.45 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:33 | 40.68 | 33.78 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:33 | 41.01 | 34.11 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 23:07:33 | 41.34 | 34.44 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 23:07:34 | 41.67 | 34.77 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 23:07:34 | 41.99 | 35.09 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 23:07:34 | 42.32 | 35.42 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:07:35 | 42.65 | 35.75 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:07:35 | 42.98 | 36.08 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:35 | 43.31 | 36.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:07:36 | 43.64 | 36.74 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 23:07:36 | 43.96 | 37.06 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:36 | 44.29 | 37.39 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:37 | 44.62 | 37.72 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:37 | 44.95 | 38.05 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 23:07:37 | 45.28 | 38.38 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 23:07:38 | 45.60 | 38.70 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 23:07:38 | 45.93 | 39.03 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:39 | 46.26 | 39.36 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:39 | 46.59 | 39.69 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:39 | 46.92 | 40.02 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 23:07:40 | 47.24 | 40.34 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:40 | 47.57 | 40.67 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:40 | 47.90 | 41.00 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:41 | 48.23 | 41.33 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:41 | 48.56 | 41.66 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:41 | 48.88 | 41.98 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:42 | 49.21 | 42.31 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 23:07:42 | 49.54 | 42.64 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 23:07:42 | 49.87 | 42.97 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 23:07:43 | 50.20 | 43.30 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:43 | 50.53 | 43.63 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:43 | 50.85 | 43.95 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 23:07:44 | 51.18 | 44.28 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:44 | 51.51 | 44.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:44 | 51.84 | 44.94 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 23:07:45 | 52.17 | 45.27 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 23:07:45 | 52.49 | 45.59 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 23:07:45 | 52.82 | 45.92 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 23:07:46 | 53.15 | 46.25 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 23:07:46 | 53.48 | 46.58 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 23:07:47 | 53.81 | 46.91 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 23:07:47 | 54.13 | 47.23 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 23:07:47 | 54.46 | 47.56 | 974 | 1.14 | 0.29 | 53.2 |
| 5/1/2015 23:07:48 | 54.79 | 47.89 | 974 | 1.14 | 0.29 | 53.2 |
| 5/1/2015 23:07:56 | 55.12 | 48.22 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 23:08:00 | 55.45 | 48.55 | 90 | 1.14 | 0.29 | 4.9 |
| 5/1/2015 23:08:04 | 55.77 | 48.87 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 23:08:07 | 56.10 | 49.20 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 23:08:09 | 56.43 | 49.53 | 143 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 23:08:10 | 56.76 | 49.86 | 222 | 1.14 | 0.29 | 12.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 23:08:17 | 57.09 | 50.19 | 17 | 1.14 | 0.29 | 0.9 |
| 5/1/2015 | 23:08:20 | 57.41 | 50.51 | 130 | 1.14 | 0.29 | 7.1 |
| 5/1/2015 | 23:08:23 | 57.74 | 50.84 | 113 | 1.14 | 0.29 | 6.2 |
| 5/1/2015 | 23:08:25 | 58.07 | 51.17 | 140 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 | 23:08:26 | 58.40 | 51.50 | 177 | 1.14 | 0.29 | 9.7 |
| 5/1/2015 | 23:08:27 | 58.73 | 51.83 | 229 | 1.14 | 0.29 | 12.5 |
| 5/1/2015 | 23:08:47 | 59.06 | 52.16 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 | 23:08:54 | 59.38 | 52.48 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 23:09:02 | 59.71 | 52.81 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 23:09:09 | 60.04 | 53.14 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 23:09:17 | 60.37 | 53.47 | 43 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 23:09:23 | 60.70 | 53.80 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 23:09:25 | 60.77 | 53.87 | 58 | 1.14 | 0.29 | 3.2 |

## M36 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:06:27

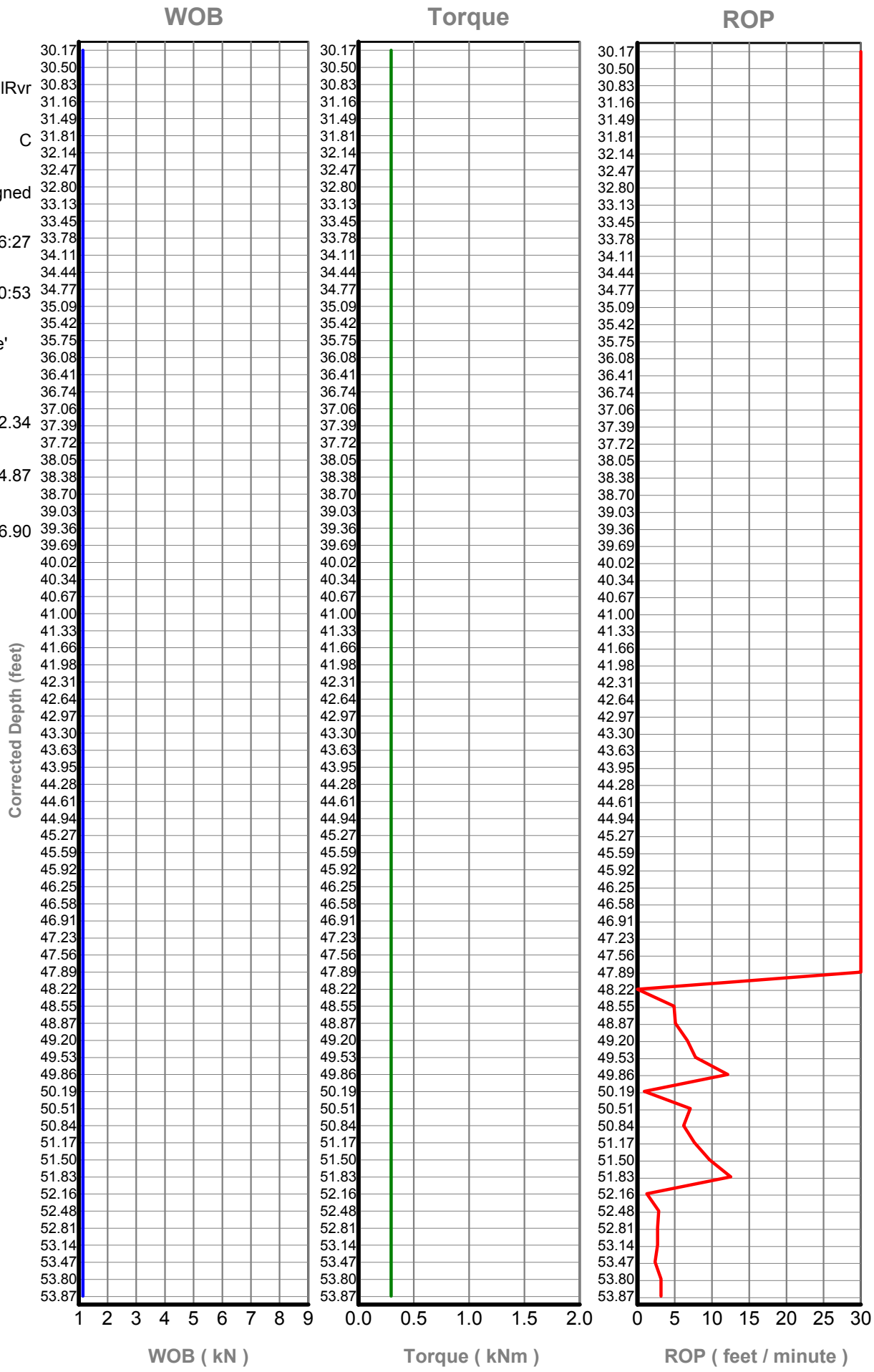
**End Date:**
5/1/2015 23:10:53

**Operator Note:**
'6.9 6.8 c Auto Complete'

**Northing:**
359,372.34

**Easting:**
240,674.87

**Tide (feet):**
6.90



## Hole: M37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:45:15 | 33.14 | 30.14 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:45:15 | 33.46 | 30.46 | 1,157 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:45:15 | 33.79 | 30.79 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:16 | 34.12 | 31.12 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:16 | 34.45 | 31.45 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 4:45:17 | 34.78 | 31.78 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 4:45:16 | 35.11 | 32.11 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 4:45:17 | 35.43 | 32.43 | 1,153 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:18 | 35.76 | 32.76 | 1,153 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:18 | 36.09 | 33.09 | 1,150 | 0.54 | 0.17 | 62.9 |
| 5/2/2015 4:45:18 | 36.42 | 33.42 | 1,150 | 0.54 | 0.17 | 62.9 |
| 5/2/2015 4:45:18 | 36.75 | 33.75 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 4:45:19 | 37.07 | 34.07 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/2/2015 4:45:19 | 37.40 | 34.40 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/2/2015 4:45:19 | 37.73 | 34.73 | 1,162 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 4:45:20 | 38.06 | 35.06 | 1,162 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 4:45:20 | 38.39 | 35.39 | 1,157 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:45:20 | 38.71 | 35.71 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:45:21 | 39.04 | 36.04 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 4:45:21 | 39.37 | 36.37 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:21 | 39.70 | 36.70 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 4:45:21 | 40.03 | 37.03 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:45:22 | 40.35 | 37.35 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:45:22 | 40.68 | 37.68 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 4:45:22 | 41.01 | 38.01 | 1,117 | 0.54 | 0.17 | 61.1 |
| 5/2/2015 4:45:23 | 41.34 | 38.34 | 884 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 4:45:24 | 41.67 | 38.67 | 781 | 0.54 | 0.17 | 42.7 |
| 5/2/2015 4:45:24 | 41.99 | 38.99 | 681 | 0.54 | 0.17 | 37.2 |
| 5/2/2015 4:45:25 | 42.32 | 39.32 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 4:45:25 | 42.65 | 39.65 | 616 | 0.54 | 0.17 | 33.7 |
| 5/2/2015 4:45:26 | 42.98 | 39.98 | 637 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 4:45:26 | 43.31 | 40.31 | 636 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 4:45:27 | 43.64 | 40.64 | 637 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 4:45:27 | 43.96 | 40.96 | 637 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 4:45:28 | 44.29 | 41.29 | 634 | 0.54 | 0.17 | 34.7 |
| 5/2/2015 4:45:29 | 44.62 | 41.62 | 634 | 0.54 | 0.17 | 34.7 |
| 5/2/2015 4:45:30 | 44.95 | 41.95 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:30 | 45.28 | 42.28 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:31 | 45.60 | 42.60 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:31 | 45.93 | 42.93 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:32 | 46.26 | 43.26 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:32 | 46.59 | 43.59 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:45:33 | 46.92 | 43.92 | 628 | 0.54 | 0.17 | 34.3 |
| 5/2/2015 4:45:33 | 47.24 | 44.24 | 628 | 0.54 | 0.17 | 34.3 |
| 5/2/2015 4:45:34 | 47.57 | 44.57 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:45:35 | 47.90 | 44.90 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:45:35 | 48.23 | 45.23 | 619 | 0.54 | 0.17 | 33.8 |
| 5/2/2015 4:45:36 | 48.56 | 45.56 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:45:36 | 48.88 | 45.88 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:45:37 | 49.21 | 46.21 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:45:37 | 49.54 | 46.54 | 619 | 0.54 | 0.17 | 33.9 |
| 5/2/2015 4:45:38 | 49.87 | 46.87 | 617 | 0.54 | 0.17 | 33.7 |
| 5/2/2015 4:45:38 | 50.20 | 47.20 | 616 | 0.54 | 0.17 | 33.7 |
| 5/2/2015 4:45:39 | 50.53 | 47.53 | 625 | 0.54 | 0.17 | 34.2 |
| 5/2/2015 4:45:39 | 50.85 | 47.85 | 634 | 0.54 | 0.17 | 34.7 |
| 5/2/2015 4:45:40 | 51.18 | 48.18 | 643 | 0.54 | 0.17 | 35.2 |
| 5/2/2015 4:45:41 | 51.51 | 48.51 | 649 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 4:45:42 | 51.84 | 48.84 | 645 | 0.54 | 0.17 | 35.2 |
| 5/2/2015 4:45:42 | 52.17 | 49.17 | 642 | 0.54 | 0.17 | 35.1 |
| 5/2/2015 4:45:43 | 52.49 | 49.49 | 643 | 0.54 | 0.17 | 35.1 |
| 5/2/2015 4:45:43 | 52.82 | 49.82 | 640 | 0.54 | 0.17 | 35.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:45:44 | 53.15 | 50.15 | 640 | 0.54 | 0.17 | 35.0 |
| 5/2/2015 | 4:45:44 | 53.48 | 50.48 | 634 | 0.54 | 0.17 | 34.7 |
| 5/2/2015 | 4:45:45 | 53.81 | 50.81 | 628 | 0.54 | 0.17 | 34.4 |
| 5/2/2015 | 4:45:45 | 54.13 | 51.13 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 | 4:45:46 | 54.46 | 51.46 | 620 | 0.54 | 0.17 | 33.9 |
| 5/2/2015 | 4:46:01 | 54.79 | 51.79 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 | 4:46:03 | 55.12 | 52.12 | 137 | 0.54 | 0.17 | 7.5 |
| 5/2/2015 | 4:46:07 | 55.45 | 52.45 | 96 | 0.54 | 0.17 | 5.2 |
| 5/2/2015 | 4:46:10 | 55.77 | 52.77 | 119 | 0.54 | 0.17 | 6.5 |
| 5/2/2015 | 4:46:14 | 56.10 | 53.10 | 103 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 4:46:19 | 56.43 | 53.43 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 | 4:46:26 | 56.76 | 53.76 | 52 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 | 4:46:30 | 57.09 | 54.09 | 81 | 0.54 | 0.17 | 4.5 |
| 5/2/2015 | 4:46:35 | 57.41 | 54.41 | 76 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 | 4:46:39 | 57.74 | 54.74 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 | 4:46:43 | 57.99 | 54.99 | 71 | 0.54 | 0.17 | 3.9 |

## M37 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:31:26

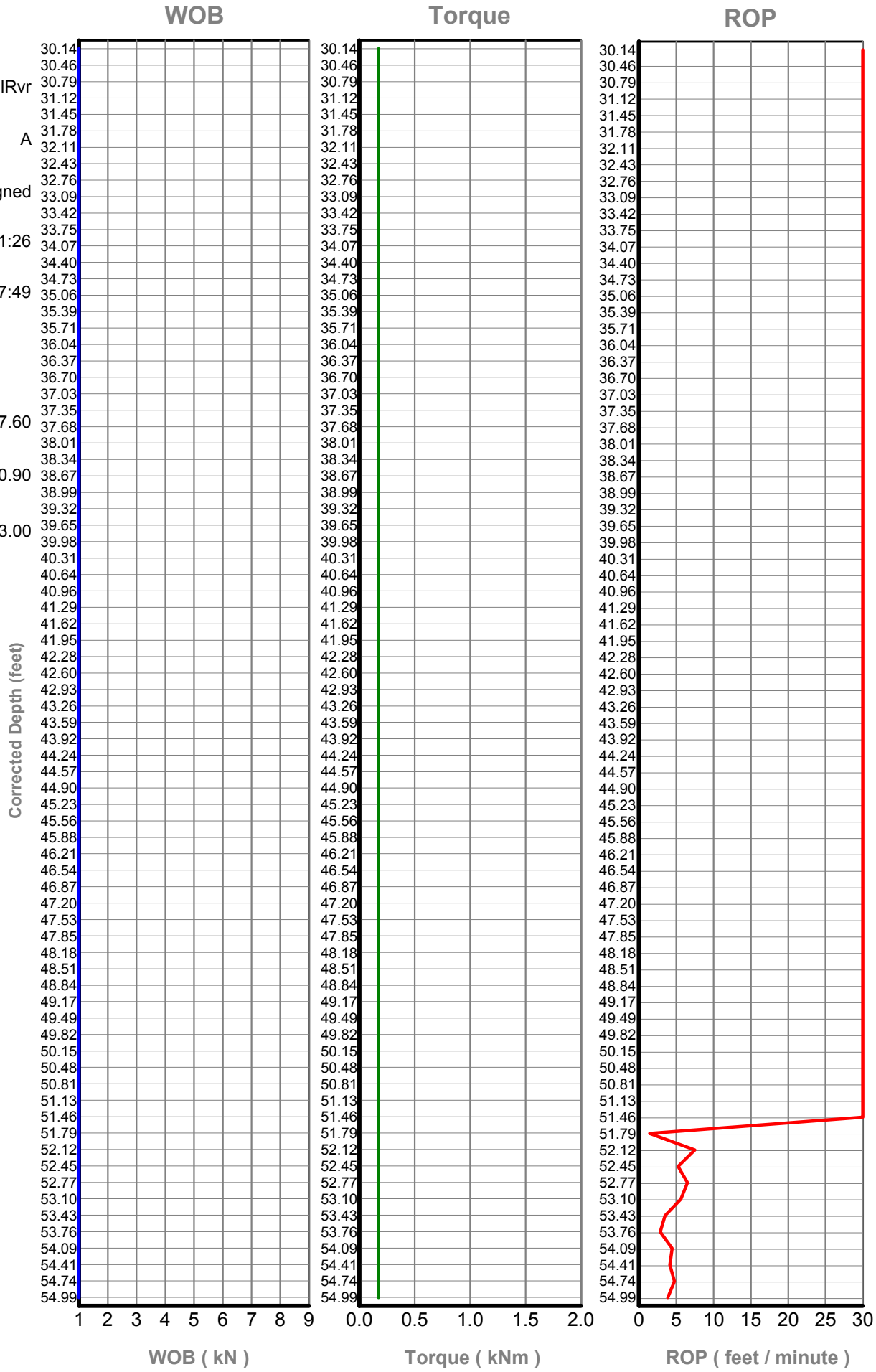
**End Date:**
5/2/2015 4:47:49

**Operator Note:**
'3 3 a Auto Complete'

**Northing:**
358,867.60

**Easting:**
240,010.90

**Tide (feet):**
3.00



## Hole: M38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:44:43 | 33.14 | 30.24 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:44 | 33.46 | 30.56 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:44 | 33.79 | 30.89 | 1,184 | 0.31 | 0.38 | 64.7 |
| 5/2/2015 4:44:44 | 34.12 | 31.22 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:45 | 34.45 | 31.55 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:45 | 34.78 | 31.88 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:45 | 35.11 | 32.21 | 1,164 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:44:45 | 35.43 | 32.53 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/2/2015 4:44:46 | 35.76 | 32.86 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/2/2015 4:44:46 | 36.09 | 33.19 | 1,175 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 4:44:46 | 36.42 | 33.52 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 4:44:47 | 36.75 | 33.85 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 4:44:47 | 37.07 | 34.17 | 1,171 | 0.31 | 0.38 | 64.1 |
| 5/2/2015 4:44:47 | 37.40 | 34.50 | 1,171 | 0.31 | 0.38 | 64.1 |
| 5/2/2015 4:44:47 | 37.73 | 34.83 | 1,191 | 0.31 | 0.37 | 65.1 |
| 5/2/2015 4:44:48 | 38.06 | 35.16 | 1,191 | 0.31 | 0.37 | 65.1 |
| 5/2/2015 4:44:48 | 38.39 | 35.49 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 4:44:48 | 38.71 | 35.81 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/2/2015 4:44:49 | 39.04 | 36.14 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/2/2015 4:44:49 | 39.37 | 36.47 | 1,188 | 0.31 | 0.36 | 65.0 |
| 5/2/2015 4:44:49 | 39.70 | 36.80 | 1,188 | 0.31 | 0.36 | 65.0 |
| 5/2/2015 4:44:49 | 40.03 | 37.13 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/2/2015 4:44:50 | 40.35 | 37.45 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/2/2015 4:44:50 | 40.68 | 37.78 | 1,197 | 0.30 | 0.37 | 65.4 |
| 5/2/2015 4:44:51 | 41.01 | 38.11 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:44:51 | 41.34 | 38.44 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:44:51 | 41.67 | 38.77 | 1,188 | 0.30 | 0.37 | 65.0 |
| 5/2/2015 4:44:52 | 41.99 | 39.09 | 1,188 | 0.30 | 0.37 | 65.0 |
| 5/2/2015 4:44:52 | 42.32 | 39.42 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 4:44:52 | 42.65 | 39.75 | 1,194 | 0.31 | 0.38 | 65.3 |
| 5/2/2015 4:44:53 | 42.98 | 40.08 | 1,194 | 0.31 | 0.38 | 65.3 |
| 5/2/2015 4:44:53 | 43.31 | 40.41 | 1,191 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 4:44:53 | 43.64 | 40.74 | 1,191 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 4:44:53 | 43.96 | 41.06 | 1,189 | 0.31 | 0.37 | 65.0 |
| 5/2/2015 4:44:54 | 44.29 | 41.39 | 1,189 | 0.31 | 0.37 | 65.0 |
| 5/2/2015 4:44:54 | 44.62 | 41.72 | 1,189 | 0.31 | 0.37 | 65.0 |
| 5/2/2015 4:44:54 | 44.95 | 42.05 | 1,197 | 0.31 | 0.39 | 65.4 |
| 5/2/2015 4:44:55 | 45.28 | 42.38 | 1,197 | 0.31 | 0.39 | 65.4 |
| 5/2/2015 4:44:55 | 45.60 | 42.70 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 4:44:55 | 45.93 | 43.03 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 4:44:55 | 46.26 | 43.36 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:44:56 | 46.59 | 43.69 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:44:56 | 46.92 | 44.02 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:44:56 | 47.24 | 44.34 | 1,204 | 0.31 | 0.37 | 65.9 |
| 5/2/2015 4:44:57 | 47.57 | 44.67 | 1,204 | 0.31 | 0.37 | 65.9 |
| 5/2/2015 4:44:57 | 47.90 | 45.00 | 1,188 | 0.31 | 0.38 | 65.0 |
| 5/2/2015 4:44:57 | 48.23 | 45.33 | 1,188 | 0.31 | 0.38 | 65.0 |
| 5/2/2015 4:44:57 | 48.56 | 45.66 | 1,198 | 0.31 | 0.37 | 65.5 |
| 5/2/2015 4:44:58 | 48.88 | 45.98 | 1,198 | 0.31 | 0.37 | 65.5 |
| 5/2/2015 4:44:58 | 49.21 | 46.31 | 1,188 | 0.30 | 0.38 | 65.0 |
| 5/2/2015 4:44:58 | 49.54 | 46.64 | 1,183 | 0.60 | 0.37 | 64.7 |
| 5/2/2015 4:44:59 | 49.87 | 46.97 | 1,183 | 0.60 | 0.37 | 64.7 |
| 5/2/2015 4:44:59 | 50.20 | 47.30 | 1,171 | 0.30 | 0.38 | 64.0 |
| 5/2/2015 4:44:59 | 50.53 | 47.63 | 1,171 | 0.30 | 0.38 | 64.0 |
| 5/2/2015 4:44:59 | 50.85 | 47.95 | 1,162 | 0.30 | 0.38 | 63.6 |
| 5/2/2015 4:45:00 | 51.18 | 48.28 | 1,123 | 0.31 | 0.38 | 61.4 |
| 5/2/2015 4:45:00 | 51.51 | 48.61 | 1,123 | 0.31 | 0.38 | 61.4 |
| 5/2/2015 4:45:00 | 51.84 | 48.94 | 1,125 | 0.30 | 0.38 | 61.5 |
| 5/2/2015 4:45:01 | 52.17 | 49.27 | 1,125 | 0.29 | 0.38 | 61.5 |
| 5/2/2015 4:45:02 | 52.49 | 49.59 | 1,125 | 0.29 | 0.38 | 61.5 |
| 5/2/2015 4:45:02 | 52.82 | 49.92 | 1,110 | 0.29 | 0.40 | 60.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:45:06 | 53.15 | 50.25 | 0 | 3.43 | 0.42 | 0.0 |
| 5/2/2015 | 4:45:11 | 53.48 | 50.58 | 51 | 4.29 | 0.45 | 2.8 |
| 5/2/2015 | 4:45:12 | 53.81 | 50.91 | 175 | 4.71 | 0.44 | 9.6 |
| 5/2/2015 | 4:45:13 | 54.13 | 51.23 | 278 | 3.70 | 0.44 | 15.2 |
| 5/2/2015 | 4:45:16 | 54.46 | 51.56 | 93 | 3.54 | 0.46 | 5.1 |
| 5/2/2015 | 4:45:23 | 54.79 | 51.89 | 49 | 3.37 | 0.47 | 2.7 |
| 5/2/2015 | 4:45:30 | 55.12 | 52.22 | 53 | 3.49 | 0.47 | 2.9 |
| 5/2/2015 | 4:45:37 | 55.45 | 52.55 | 55 | 3.40 | 0.47 | 3.0 |
| 5/2/2015 | 4:45:37 | 55.50 | 52.60 | 55 | 3.33 | 0.46 | 3.0 |

## M38 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:42:55

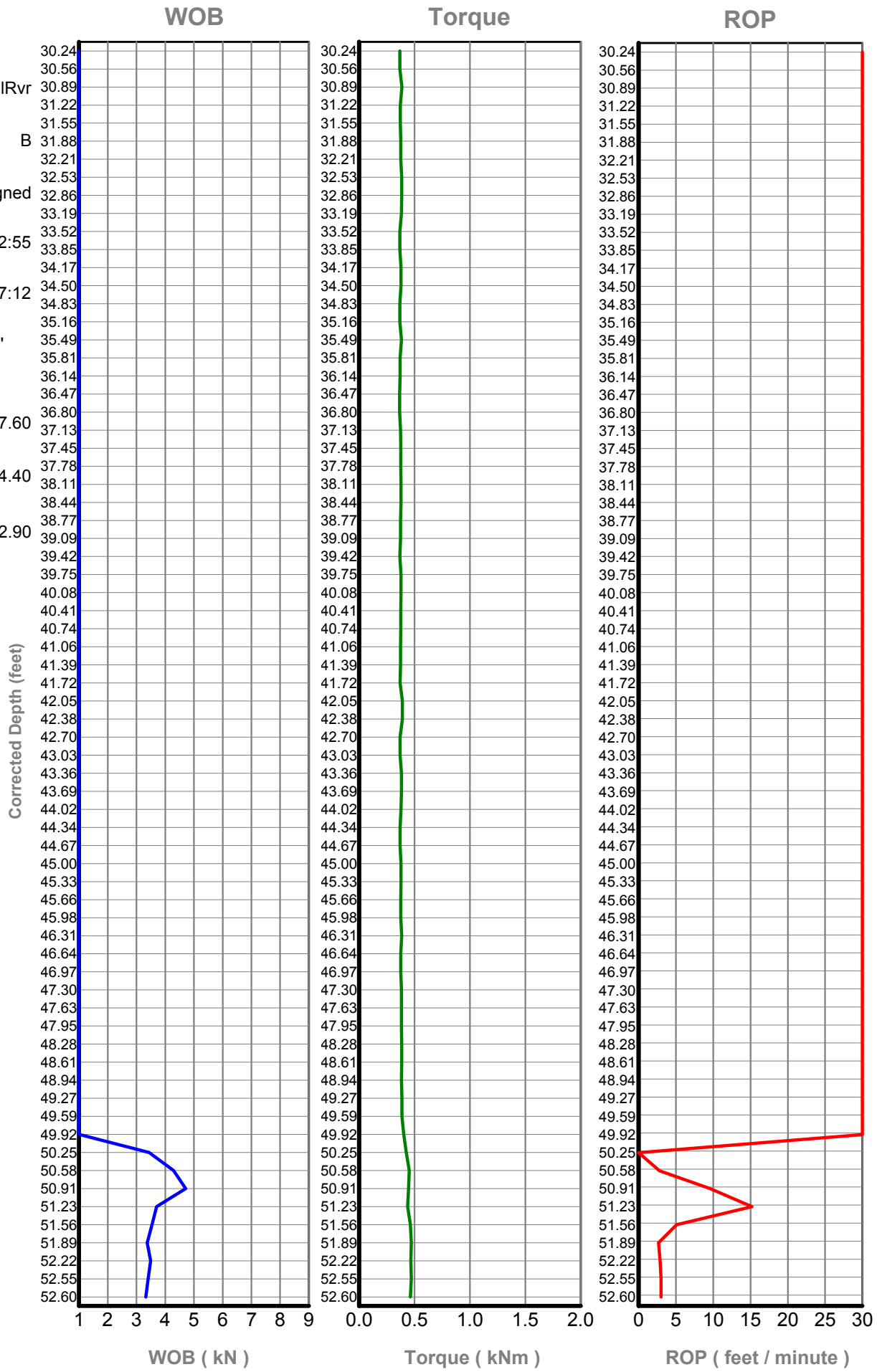
**End Date:**
5/2/2015 4:47:12

**Operator Note:**
'2.9 3.0b Auto Complete'

**Northing:**
358,907.60

**Easting:**
240,074.40

**Tide (feet):**
2.90



## Hole: M39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:43:10 | 33.14 | 30.24 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:11 | 33.46 | 30.56 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:11 | 33.79 | 30.89 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:11 | 34.12 | 31.22 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 4:43:12 | 34.45 | 31.55 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 4:43:12 | 34.78 | 31.88 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 4:43:12 | 35.11 | 32.21 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:13 | 35.43 | 32.53 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:13 | 35.76 | 32.86 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:13 | 36.09 | 33.19 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:14 | 36.42 | 33.52 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:14 | 36.75 | 33.85 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 4:43:14 | 37.07 | 34.17 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 4:43:14 | 37.40 | 34.50 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 4:43:15 | 37.73 | 34.83 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:15 | 38.06 | 35.16 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:15 | 38.39 | 35.49 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:43:16 | 38.71 | 35.81 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:43:16 | 39.04 | 36.14 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 4:43:16 | 39.37 | 36.47 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:17 | 39.70 | 36.80 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:17 | 40.03 | 37.13 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:17 | 40.35 | 37.45 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:43:18 | 40.68 | 37.78 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 4:43:18 | 41.01 | 38.11 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 4:43:18 | 41.34 | 38.44 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 4:43:19 | 41.67 | 38.77 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:43:20 | 41.99 | 39.09 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:43:20 | 42.32 | 39.42 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 4:43:20 | 42.65 | 39.75 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:21 | 42.98 | 40.08 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:43:21 | 43.31 | 40.41 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 4:43:21 | 43.64 | 40.74 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:43:22 | 43.96 | 41.06 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:43:22 | 44.29 | 41.39 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 4:43:22 | 44.62 | 41.72 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 4:43:22 | 44.95 | 42.05 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 4:43:23 | 45.28 | 42.38 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 4:43:23 | 45.60 | 42.70 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 4:43:23 | 45.93 | 43.03 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:43:24 | 46.26 | 43.36 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:43:24 | 46.59 | 43.69 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:43:24 | 46.92 | 44.02 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:43:25 | 47.24 | 44.34 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:43:25 | 47.57 | 44.67 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:43:25 | 47.90 | 45.00 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:43:26 | 48.23 | 45.33 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:26 | 48.56 | 45.66 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:26 | 48.88 | 45.98 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 4:43:27 | 49.21 | 46.31 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:27 | 49.54 | 46.64 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:27 | 49.87 | 46.97 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:43:28 | 50.20 | 47.30 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 4:43:28 | 50.53 | 47.63 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:29 | 50.85 | 47.95 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:43:29 | 51.18 | 48.28 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 4:43:29 | 51.51 | 48.61 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 4:43:30 | 51.84 | 48.94 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 4:43:30 | 52.17 | 49.27 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 4:43:31 | 52.49 | 49.59 | 957 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 4:43:50 | 52.82 | 49.92 | 46 | 1.14 | 0.29 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:43:55 | 53.15 | 50.25 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 4:44:03 | 53.48 | 50.58 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 4:44:10 | 53.81 | 50.91 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 | 4:44:15 | 54.05 | 51.15 | 48 | 1.14 | 0.29 | 2.6 |

## M39 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:41:57

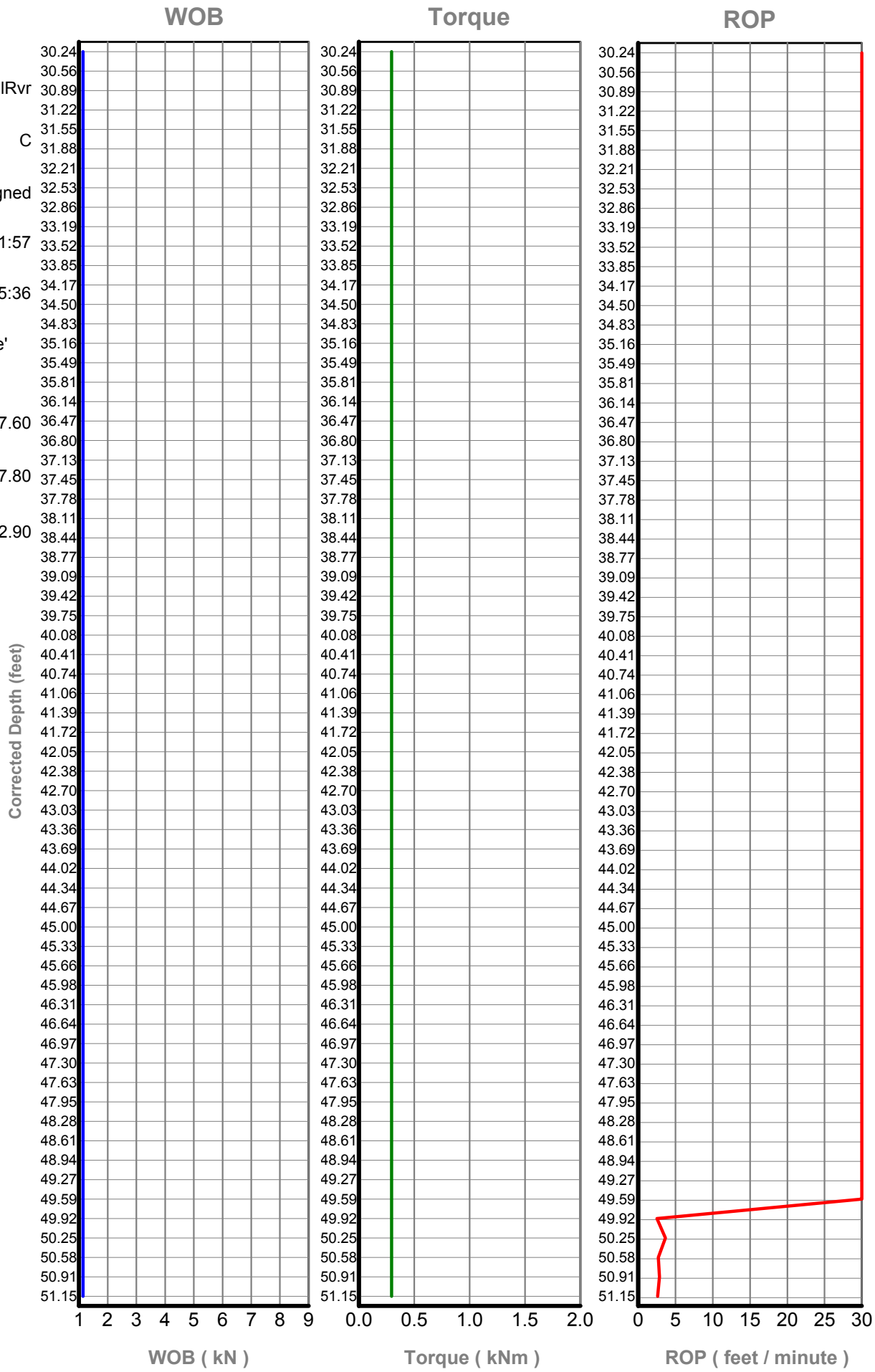
**End Date:**
5/2/2015 4:45:36

**Operator Note:**
'2.9 3.0 c Auto Complete'

**Northing:**
358,947.60

**Easting:**
240,137.80

**Tide (feet):**
2.90



## Hole: M4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:26:51 | 34.45 | 30.15 | 1,253 | 1.84 | 0.25 | 68.5 |
| 5/2/2015 3:26:52 | 34.78 | 30.48 | 1,253 | 1.84 | 0.25 | 68.5 |
| 5/2/2015 3:26:52 | 35.11 | 30.81 | 1,246 | 1.81 | 0.24 | 68.1 |
| 5/2/2015 3:26:52 | 35.43 | 31.13 | 1,225 | 1.83 | 0.25 | 67.0 |
| 5/2/2015 3:26:53 | 35.76 | 31.46 | 1,225 | 1.83 | 0.25 | 67.0 |
| 5/2/2015 3:26:53 | 36.09 | 31.79 | 1,225 | 1.81 | 0.24 | 67.0 |
| 5/2/2015 3:26:53 | 36.42 | 32.12 | 1,225 | 1.81 | 0.24 | 67.0 |
| 5/2/2015 3:26:53 | 36.75 | 32.45 | 1,236 | 1.83 | 0.24 | 67.6 |
| 5/2/2015 3:26:54 | 37.07 | 32.77 | 1,236 | 1.83 | 0.24 | 67.6 |
| 5/2/2015 3:26:54 | 37.40 | 33.10 | 1,237 | 1.83 | 0.24 | 67.6 |
| 5/2/2015 3:26:54 | 37.73 | 33.43 | 1,237 | 1.83 | 0.24 | 67.6 |
| 5/2/2015 3:26:54 | 38.06 | 33.76 | 1,228 | 1.83 | 0.24 | 67.1 |
| 5/2/2015 3:26:55 | 38.39 | 34.09 | 1,228 | 1.83 | 0.24 | 67.1 |
| 5/2/2015 3:26:55 | 38.71 | 34.41 | 1,230 | 1.82 | 0.24 | 67.3 |
| 5/2/2015 3:26:55 | 39.04 | 34.74 | 1,255 | 1.84 | 0.25 | 68.6 |
| 5/2/2015 3:26:56 | 39.37 | 35.07 | 1,255 | 1.84 | 0.25 | 68.6 |
| 5/2/2015 3:26:56 | 39.70 | 35.40 | 1,243 | 1.83 | 0.24 | 68.0 |
| 5/2/2015 3:26:56 | 40.03 | 35.73 | 1,243 | 1.83 | 0.24 | 68.0 |
| 5/2/2015 3:26:56 | 40.35 | 36.05 | 1,248 | 1.86 | 0.24 | 68.2 |
| 5/2/2015 3:26:57 | 40.68 | 36.38 | 1,248 | 1.86 | 0.24 | 68.2 |
| 5/2/2015 3:26:57 | 41.01 | 36.71 | 1,240 | 1.85 | 0.25 | 67.8 |
| 5/2/2015 3:26:58 | 41.34 | 37.04 | 1,240 | 1.85 | 0.25 | 67.8 |
| 5/2/2015 3:26:57 | 41.67 | 37.37 | 1,240 | 1.83 | 0.24 | 67.8 |
| 5/2/2015 3:26:58 | 41.99 | 37.69 | 1,228 | 1.87 | 0.25 | 67.2 |
| 5/2/2015 3:26:59 | 42.32 | 38.02 | 1,228 | 1.87 | 0.25 | 67.2 |
| 5/2/2015 3:26:59 | 42.65 | 38.35 | 1,223 | 1.86 | 0.24 | 66.9 |
| 5/2/2015 3:26:59 | 42.98 | 38.68 | 1,223 | 1.86 | 0.24 | 66.9 |
| 5/2/2015 3:26:59 | 43.31 | 39.01 | 1,209 | 1.36 | 0.25 | 66.1 |
| 5/2/2015 3:27:00 | 43.64 | 39.34 | 1,179 | 1.43 | 0.26 | 64.5 |
| 5/2/2015 3:27:00 | 43.96 | 39.66 | 1,179 | 1.43 | 0.26 | 64.5 |
| 5/2/2015 3:27:01 | 44.29 | 39.99 | 919 | 1.21 | 0.26 | 50.3 |
| 5/2/2015 3:27:01 | 44.62 | 40.32 | 805 | 1.22 | 0.26 | 44.0 |
| 5/2/2015 3:27:02 | 44.95 | 40.65 | 697 | 1.21 | 0.26 | 38.1 |
| 5/2/2015 3:27:02 | 45.28 | 40.98 | 611 | 1.21 | 0.26 | 33.4 |
| 5/2/2015 3:27:03 | 45.60 | 41.30 | 574 | 1.23 | 0.26 | 31.4 |
| 5/2/2015 3:27:03 | 45.93 | 41.63 | 629 | 1.22 | 0.26 | 34.4 |
| 5/2/2015 3:27:04 | 46.26 | 41.96 | 633 | 1.22 | 0.26 | 34.6 |
| 5/2/2015 3:27:05 | 46.59 | 42.29 | 629 | 1.23 | 0.26 | 34.4 |
| 5/2/2015 3:27:05 | 46.92 | 42.62 | 618 | 1.22 | 0.26 | 33.8 |
| 5/2/2015 3:27:06 | 47.24 | 42.94 | 623 | 1.22 | 0.26 | 34.1 |
| 5/2/2015 3:27:06 | 47.57 | 43.27 | 627 | 1.21 | 0.26 | 34.3 |
| 5/2/2015 3:27:07 | 47.90 | 43.60 | 618 | 1.23 | 0.26 | 33.8 |
| 5/2/2015 3:27:07 | 48.23 | 43.93 | 613 | 1.08 | 0.20 | 33.5 |
| 5/2/2015 3:27:08 | 48.56 | 44.26 | 623 | 1.11 | 0.20 | 34.1 |
| 5/2/2015 3:27:09 | 48.88 | 44.58 | 619 | 1.10 | 0.20 | 33.8 |
| 5/2/2015 3:27:09 | 49.21 | 44.91 | 625 | 1.11 | 0.20 | 34.2 |
| 5/2/2015 3:27:10 | 49.54 | 45.24 | 630 | 1.11 | 0.20 | 34.5 |
| 5/2/2015 3:27:11 | 49.87 | 45.57 | 639 | 1.11 | 0.20 | 34.9 |
| 5/2/2015 3:27:11 | 50.20 | 45.90 | 627 | 1.13 | 0.20 | 34.3 |
| 5/2/2015 3:27:23 | 50.53 | 46.23 | 55 | 0.93 | 1.41 | 3.0 |
| 5/2/2015 3:27:27 | 50.85 | 46.55 | 85 | 1.05 | 1.27 | 4.7 |
| 5/2/2015 3:27:31 | 51.18 | 46.88 | 118 | 1.10 | 1.22 | 6.4 |
| 5/2/2015 3:27:34 | 51.51 | 47.21 | 119 | 1.14 | 1.23 | 6.5 |
| 5/2/2015 3:27:36 | 51.84 | 47.54 | 126 | 1.03 | 1.28 | 6.9 |
| 5/2/2015 3:27:40 | 52.17 | 47.87 | 105 | 1.05 | 1.26 | 5.8 |
| 5/2/2015 3:27:43 | 52.49 | 48.19 | 118 | 1.10 | 1.25 | 6.4 |
| 5/2/2015 3:27:47 | 52.82 | 48.52 | 94 | 1.07 | 1.13 | 5.2 |
| 5/2/2015 3:27:50 | 53.15 | 48.85 | 123 | 1.05 | 1.29 | 6.7 |
| 5/2/2015 3:27:58 | 53.48 | 49.18 | 34 | 1.09 | 1.09 | 1.9 |
| 5/2/2015 3:28:01 | 53.81 | 49.51 | 130 | 1.08 | 1.13 | 7.1 |
| 5/2/2015 3:28:07 | 54.13 | 49.83 | 58 | 1.06 | 1.11 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:28:11 | 54.46 | 50.16 | 84 | 1.07 | 1.14 | 4.6 |
| 5/2/2015 | 3:28:16 | 54.79 | 50.49 | 74 | 1.09 | 1.17 | 4.0 |
| 5/2/2015 | 3:28:23 | 55.12 | 50.82 | 53 | 1.05 | 0.95 | 2.9 |
| 5/2/2015 | 3:28:28 | 55.45 | 51.15 | 67 | 1.11 | 1.04 | 3.7 |
| 5/2/2015 | 3:28:35 | 55.77 | 51.47 | 60 | 1.02 | 1.02 | 3.3 |
| 5/2/2015 | 3:28:39 | 55.99 | 51.69 | 56 | 0.76 | 1.14 | 3.1 |

## M4 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:16:32

**End Date:**
5/2/2015 3:29:43

**Operator Note:**
'4.3 4.2 a Auto Complete'

**Northing:**
359,175.10

**Easting:**
240,082.10

**Tide (feet):**
4.30



## Hole: M40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:51:07 | 35.11 | 30.31 | 1,072 | 1.59 | 0.25 | 58.6 |
| 5/2/2015 2:51:07 | 35.43 | 30.63 | 1,072 | 1.60 | 0.25 | 58.6 |
| 5/2/2015 2:51:08 | 35.76 | 30.96 | 1,063 | 1.59 | 0.24 | 58.1 |
| 5/2/2015 2:51:08 | 36.09 | 31.29 | 1,063 | 1.59 | 0.24 | 58.1 |
| 5/2/2015 2:51:08 | 36.42 | 31.62 | 1,066 | 1.61 | 0.25 | 58.3 |
| 5/2/2015 2:51:09 | 36.75 | 31.95 | 1,070 | 1.59 | 0.24 | 58.5 |
| 5/2/2015 2:51:09 | 37.07 | 32.27 | 1,070 | 1.59 | 0.24 | 58.5 |
| 5/2/2015 2:51:09 | 37.40 | 32.60 | 1,067 | 1.57 | 0.24 | 58.3 |
| 5/2/2015 2:51:10 | 37.73 | 32.93 | 1,067 | 1.59 | 0.25 | 58.3 |
| 5/2/2015 2:51:10 | 38.06 | 33.26 | 1,067 | 1.59 | 0.25 | 58.3 |
| 5/2/2015 2:51:10 | 38.39 | 33.59 | 1,082 | 1.55 | 0.25 | 59.2 |
| 5/2/2015 2:51:11 | 38.71 | 33.91 | 1,082 | 1.55 | 0.25 | 59.2 |
| 5/2/2015 2:51:11 | 39.04 | 34.24 | 1,073 | 1.49 | 0.27 | 58.7 |
| 5/2/2015 2:51:11 | 39.37 | 34.57 | 1,050 | 1.43 | 0.26 | 57.4 |
| 5/2/2015 2:51:12 | 39.70 | 34.90 | 1,020 | 1.44 | 0.26 | 55.8 |
| 5/2/2015 2:51:12 | 40.03 | 35.23 | 1,020 | 1.44 | 0.26 | 55.8 |
| 5/2/2015 2:51:12 | 40.35 | 35.55 | 989 | 1.45 | 0.26 | 54.1 |
| 5/2/2015 2:51:13 | 40.68 | 35.88 | 942 | 1.47 | 0.26 | 51.5 |
| 5/2/2015 2:51:14 | 41.01 | 36.21 | 901 | 1.04 | 0.24 | 49.3 |
| 5/2/2015 2:51:14 | 41.34 | 36.54 | 764 | 1.21 | 0.26 | 41.8 |
| 5/2/2015 2:51:15 | 41.67 | 36.87 | 663 | 1.23 | 0.26 | 36.3 |
| 5/2/2015 2:51:16 | 41.99 | 37.19 | 610 | 1.21 | 0.26 | 33.4 |
| 5/2/2015 2:51:16 | 42.32 | 37.52 | 610 | 1.22 | 0.26 | 33.4 |
| 5/2/2015 2:51:17 | 42.65 | 37.85 | 574 | 1.22 | 0.26 | 31.4 |
| 5/2/2015 2:51:17 | 42.98 | 38.18 | 574 | 1.21 | 0.26 | 31.4 |
| 5/2/2015 2:51:18 | 43.31 | 38.51 | 660 | 1.22 | 0.18 | 36.1 |
| 5/2/2015 2:51:18 | 43.64 | 38.84 | 655 | 1.21 | 0.26 | 35.8 |
| 5/2/2015 2:51:19 | 43.96 | 39.16 | 662 | 1.22 | 0.26 | 36.2 |
| 5/2/2015 2:51:19 | 44.29 | 39.49 | 670 | 1.23 | 0.26 | 36.6 |
| 5/2/2015 2:51:20 | 44.62 | 39.82 | 676 | 1.21 | 0.26 | 37.0 |
| 5/2/2015 2:51:20 | 44.95 | 40.15 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 2:51:21 | 45.28 | 40.48 | 662 | 1.23 | 0.26 | 36.2 |
| 5/2/2015 2:51:21 | 45.60 | 40.80 | 659 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 2:51:22 | 45.93 | 41.13 | 656 | 1.22 | 0.26 | 35.9 |
| 5/2/2015 2:51:22 | 46.26 | 41.46 | 649 | 1.24 | 0.26 | 35.5 |
| 5/2/2015 2:51:23 | 46.59 | 41.79 | 656 | 1.21 | 0.27 | 35.9 |
| 5/2/2015 2:51:23 | 46.92 | 42.12 | 653 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 2:51:24 | 47.24 | 42.44 | 656 | 1.13 | 0.18 | 35.9 |
| 5/2/2015 2:51:25 | 47.57 | 42.77 | 659 | 1.11 | 0.20 | 36.0 |
| 5/2/2015 2:51:25 | 47.90 | 43.10 | 671 | 1.12 | 0.20 | 36.7 |
| 5/2/2015 2:51:26 | 48.23 | 43.43 | 679 | 1.10 | 0.20 | 37.2 |
| 5/2/2015 2:51:26 | 48.56 | 43.76 | 694 | 1.09 | 0.20 | 37.9 |
| 5/2/2015 2:51:27 | 48.88 | 44.08 | 698 | 1.11 | 0.20 | 38.2 |
| 5/2/2015 2:51:27 | 49.21 | 44.41 | 714 | 1.11 | 0.20 | 39.0 |
| 5/2/2015 2:51:28 | 49.54 | 44.74 | 717 | 1.09 | 0.20 | 39.2 |
| 5/2/2015 2:51:28 | 49.87 | 45.07 | 717 | 1.09 | 0.20 | 39.2 |
| 5/2/2015 2:51:29 | 50.20 | 45.40 | 706 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 2:51:29 | 50.53 | 45.73 | 715 | 1.09 | 0.20 | 39.1 |
| 5/2/2015 2:51:30 | 50.85 | 46.05 | 709 | 1.11 | 0.20 | 38.8 |
| 5/2/2015 2:51:30 | 51.18 | 46.38 | 703 | 1.11 | 0.20 | 38.5 |
| 5/2/2015 2:51:31 | 51.51 | 46.71 | 693 | 1.12 | 0.20 | 37.9 |
| 5/2/2015 2:51:31 | 51.84 | 47.04 | 699 | 1.11 | 0.20 | 38.3 |
| 5/2/2015 2:51:32 | 52.17 | 47.37 | 685 | 1.11 | 0.20 | 37.5 |
| 5/2/2015 2:51:32 | 52.49 | 47.69 | 676 | 1.11 | 0.20 | 37.0 |
| 5/2/2015 2:51:33 | 52.82 | 48.02 | 665 | 1.13 | 0.20 | 36.4 |
| 5/2/2015 2:51:42 | 53.15 | 48.35 | 18 | 1.17 | 1.21 | 1.0 |
| 5/2/2015 2:51:43 | 53.48 | 48.68 | 113 | 2.12 | 1.63 | 6.2 |
| 5/2/2015 2:51:47 | 53.81 | 49.01 | 78 | 1.16 | 1.28 | 4.3 |
| 5/2/2015 2:51:52 | 54.13 | 49.33 | 79 | 1.07 | 1.16 | 4.3 |
| 5/2/2015 2:51:57 | 54.46 | 49.66 | 68 | 1.11 | 1.12 | 3.7 |
| 5/2/2015 2:52:05 | 54.79 | 49.99 | 49 | 1.06 | 1.15 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:52:13 | 55.12 | 50.32 | 39 | 1.09 | 1.01 | 2.1 |
| 5/2/2015 | 2:52:19 | 55.33 | 50.53 | 40 | 1.15 | 1.00 | 2.2 |

## M40 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:42:56

**End Date:**
5/2/2015 2:53:23

**Operator Note:**
'4.8 5 a Auto Complete'

**Northing:**
358,985.20

**Easting:**
240,200.40

**Tide (feet):**
4.80



## Hole: M41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:51:43 | 34.78 | 30.08 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:51:43 | 35.11 | 30.41 | 1,149 | 0.33 | 0.37 | 62.8 |
| 5/2/2015 2:51:43 | 35.43 | 30.73 | 1,149 | 0.33 | 0.37 | 62.8 |
| 5/2/2015 2:51:43 | 35.76 | 31.06 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 2:51:44 | 36.09 | 31.39 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 2:51:44 | 36.42 | 31.72 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 2:51:44 | 36.75 | 32.05 | 1,153 | 0.33 | 0.37 | 63.1 |
| 5/2/2015 2:51:45 | 37.07 | 32.37 | 1,153 | 0.33 | 0.37 | 63.1 |
| 5/2/2015 2:51:45 | 37.40 | 32.70 | 1,148 | 0.34 | 0.37 | 62.8 |
| 5/2/2015 2:51:45 | 37.73 | 33.03 | 1,155 | 0.26 | 0.38 | 63.1 |
| 5/2/2015 2:51:46 | 38.06 | 33.36 | 1,155 | 0.26 | 0.38 | 63.1 |
| 5/2/2015 2:51:46 | 38.39 | 33.69 | 1,153 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 2:51:46 | 38.71 | 34.01 | 1,153 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 2:51:46 | 39.04 | 34.34 | 1,159 | 0.33 | 0.37 | 63.4 |
| 5/2/2015 2:51:47 | 39.37 | 34.67 | 1,159 | 0.33 | 0.37 | 63.4 |
| 5/2/2015 2:51:47 | 39.70 | 35.00 | 1,159 | 0.33 | 0.37 | 63.4 |
| 5/2/2015 2:51:47 | 40.03 | 35.33 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 2:51:48 | 40.35 | 35.65 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 2:51:48 | 40.68 | 35.98 | 1,155 | 0.33 | 0.37 | 63.2 |
| 5/2/2015 2:51:48 | 41.01 | 36.31 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:51:49 | 41.34 | 36.64 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:51:49 | 41.67 | 36.97 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 2:51:49 | 41.99 | 37.29 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 2:51:49 | 42.32 | 37.62 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/2/2015 2:51:50 | 42.65 | 37.95 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/2/2015 2:51:50 | 42.98 | 38.28 | 1,159 | 0.33 | 0.37 | 63.4 |
| 5/2/2015 2:51:50 | 43.31 | 38.61 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:51:51 | 43.64 | 38.94 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:51:51 | 43.96 | 39.26 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:52 | 44.29 | 39.59 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:52 | 44.62 | 39.92 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 2:51:52 | 44.95 | 40.25 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/2/2015 2:51:53 | 45.28 | 40.58 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/2/2015 2:51:53 | 45.60 | 40.90 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:53 | 45.93 | 41.23 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:53 | 46.26 | 41.56 | 1,159 | 0.33 | 0.37 | 63.4 |
| 5/2/2015 2:51:54 | 46.59 | 41.89 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 2:51:54 | 46.92 | 42.22 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 2:51:54 | 47.24 | 42.54 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:55 | 47.57 | 42.87 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:51:55 | 47.90 | 43.20 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 2:51:55 | 48.23 | 43.53 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 2:51:55 | 48.56 | 43.86 | 1,168 | 0.33 | 0.37 | 63.9 |
| 5/2/2015 2:51:56 | 48.88 | 44.18 | 1,171 | 0.33 | 0.37 | 64.0 |
| 5/2/2015 2:51:56 | 49.21 | 44.51 | 1,171 | 0.33 | 0.37 | 64.0 |
| 5/2/2015 2:51:56 | 49.54 | 44.84 | 1,158 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:51:57 | 49.87 | 45.17 | 1,158 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:51:57 | 50.20 | 45.50 | 1,168 | 0.33 | 0.37 | 63.9 |
| 5/2/2015 2:51:57 | 50.53 | 45.83 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 2:51:58 | 50.85 | 46.15 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 2:51:58 | 51.18 | 46.48 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:51:58 | 51.51 | 46.81 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:51:58 | 51.84 | 47.14 | 1,154 | 0.33 | 0.37 | 63.1 |
| 5/2/2015 2:51:59 | 52.17 | 47.47 | 1,147 | 0.33 | 0.38 | 62.7 |
| 5/2/2015 2:51:59 | 52.49 | 47.79 | 1,147 | 0.33 | 0.38 | 62.7 |
| 5/2/2015 2:51:59 | 52.82 | 48.12 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 2:52:00 | 53.15 | 48.45 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 2:52:00 | 53.48 | 48.78 | 1,103 | 0.32 | 0.38 | 60.3 |
| 5/2/2015 2:52:00 | 53.81 | 49.11 | 1,103 | 0.31 | 0.38 | 60.3 |
| 5/2/2015 2:52:01 | 54.13 | 49.43 | 1,103 | 0.31 | 0.38 | 60.3 |
| 5/2/2015 2:52:01 | 54.46 | 49.76 | 1,098 | 0.31 | 0.39 | 60.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:52:06 | 54.79 | 50.09 | 0 | 4.19 | 0.41 | 0.0 |
| 5/2/2015 | 2:52:06 | 55.12 | 50.42 | 108 | 3.75 | 0.41 | 5.9 |
| 5/2/2015 | 2:52:09 | 55.45 | 50.75 | 266 | 4.62 | 0.42 | 14.5 |
| 5/2/2015 | 2:52:10 | 55.77 | 51.07 | 116 | 4.20 | 0.46 | 6.4 |
| 5/2/2015 | 2:52:16 | 56.10 | 51.40 | 23 | 5.16 | 0.45 | 1.3 |
| 5/2/2015 | 2:52:17 | 56.43 | 51.73 | 174 | 3.50 | 0.37 | 9.5 |
| 5/2/2015 | 2:52:18 | 56.76 | 52.06 | 318 | 4.11 | 0.46 | 17.4 |
| 5/2/2015 | 2:52:20 | 57.09 | 52.39 | 234 | 3.73 | 0.45 | 12.8 |
| 5/2/2015 | 2:52:21 | 57.41 | 52.71 | 231 | 3.60 | 0.44 | 12.7 |
| 5/2/2015 | 2:52:23 | 57.74 | 53.04 | 231 | 3.90 | 0.44 | 12.6 |
| 5/2/2015 | 2:52:24 | 58.07 | 53.37 | 254 | 3.37 | 0.45 | 13.9 |
| 5/2/2015 | 2:52:26 | 58.40 | 53.70 | 284 | 3.60 | 0.44 | 15.5 |
| 5/2/2015 | 2:52:26 | 58.73 | 54.03 | 312 | 3.94 | 0.46 | 17.0 |
| 5/2/2015 | 2:52:27 | 59.06 | 54.36 | 370 | 3.83 | 0.45 | 20.2 |
| 5/2/2015 | 2:52:28 | 59.38 | 54.68 | 382 | 3.69 | 0.43 | 20.9 |
| 5/2/2015 | 2:52:29 | 59.71 | 55.01 | 382 | 3.72 | 0.44 | 20.9 |
| 5/2/2015 | 2:52:31 | 60.04 | 55.34 | 231 | 4.11 | 0.46 | 12.6 |

## M41 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:49:54

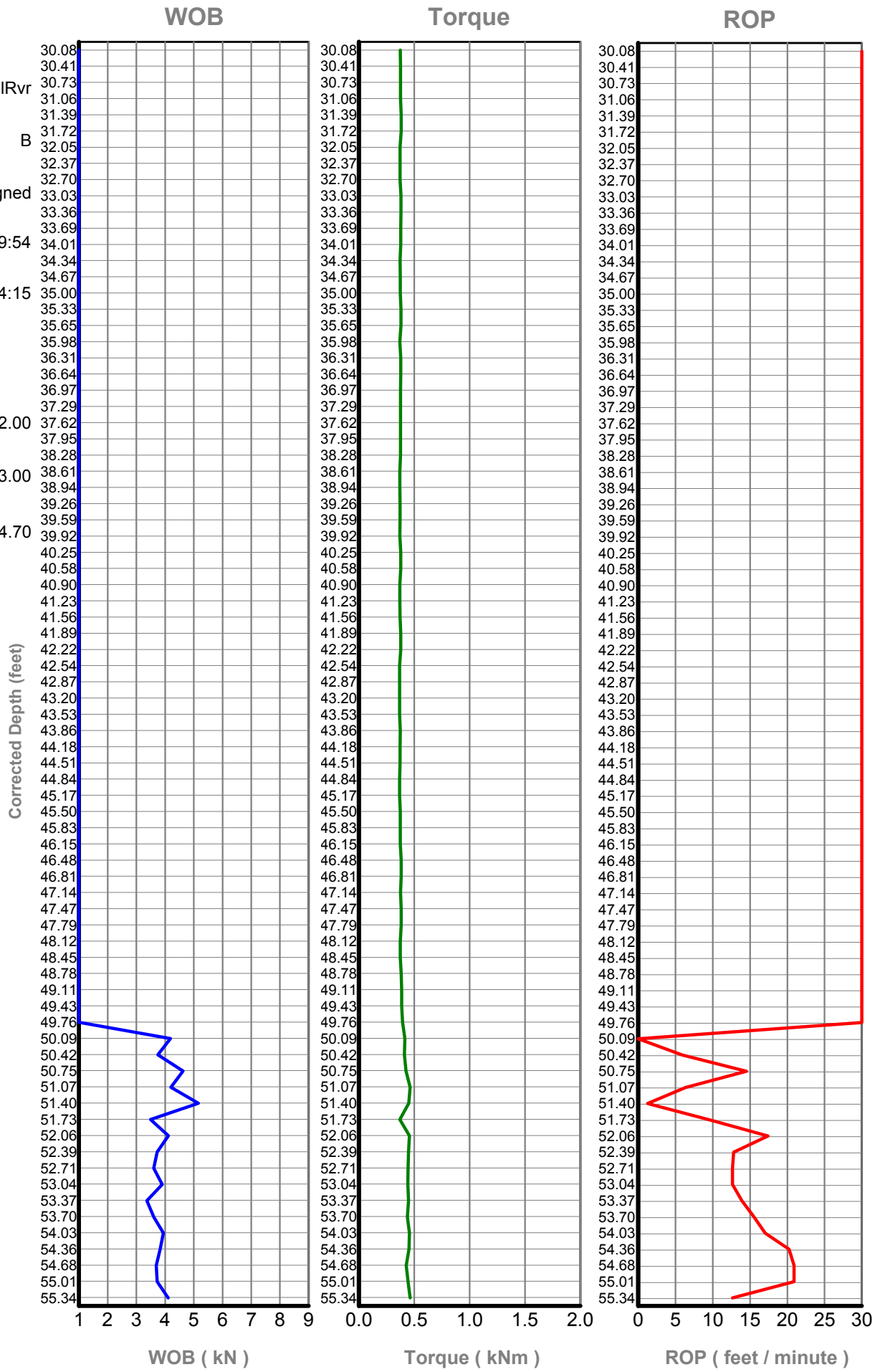
**End Date:**
5/2/2015 2:54:15

**Operator Note:**
'4.7 5.0 Auto Complete'

**Northing:**
359,022.00

**Easting:**
240,263.00

**Tide (feet):**
4.70



## Hole: M42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:50:08 | 34.78 | 30.08 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:50:08 | 35.11 | 30.41 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:50:08 | 35.43 | 30.73 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:50:09 | 35.76 | 31.06 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:09 | 36.09 | 31.39 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:09 | 36.42 | 31.72 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:10 | 36.75 | 32.05 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:50:10 | 37.07 | 32.37 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:50:10 | 37.40 | 32.70 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:50:11 | 37.73 | 33.03 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:50:11 | 38.06 | 33.36 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:50:11 | 38.39 | 33.69 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:12 | 38.71 | 34.01 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:50:12 | 39.04 | 34.34 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:50:12 | 39.37 | 34.67 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:50:13 | 39.70 | 35.00 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:50:13 | 40.03 | 35.33 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:50:13 | 40.35 | 35.65 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:14 | 40.68 | 35.98 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:50:14 | 41.01 | 36.31 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:50:14 | 41.34 | 36.64 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:15 | 41.67 | 36.97 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:16 | 41.99 | 37.29 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:15 | 42.32 | 37.62 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:16 | 42.65 | 37.95 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:16 | 42.98 | 38.28 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:17 | 43.31 | 38.61 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:50:17 | 43.64 | 38.94 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:50:17 | 43.96 | 39.26 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:50:18 | 44.29 | 39.59 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:50:18 | 44.62 | 39.92 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:19 | 44.95 | 40.25 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:19 | 45.28 | 40.58 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:50:19 | 45.60 | 40.90 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:50:20 | 45.93 | 41.23 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:50:20 | 46.26 | 41.56 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:50:20 | 46.59 | 41.89 | 1,034 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:50:21 | 46.92 | 42.22 | 1,034 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:50:21 | 47.24 | 42.54 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:21 | 47.57 | 42.87 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:50:22 | 47.90 | 43.20 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:22 | 48.23 | 43.53 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:22 | 48.56 | 43.86 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:50:23 | 48.88 | 44.18 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:23 | 49.21 | 44.51 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:50:23 | 49.54 | 44.84 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:50:24 | 49.87 | 45.17 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:50:24 | 50.20 | 45.50 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:50:24 | 50.53 | 45.83 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:50:25 | 50.85 | 46.15 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:50:25 | 51.18 | 46.48 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:50:25 | 51.51 | 46.81 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:50:26 | 51.84 | 47.14 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:26 | 52.17 | 47.47 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:50:26 | 52.49 | 47.79 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 2:50:27 | 52.82 | 48.12 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 2:50:27 | 53.15 | 48.45 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 2:50:27 | 53.48 | 48.78 | 987 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 2:50:28 | 53.81 | 49.11 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 2:50:28 | 54.13 | 49.43 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 2:50:29 | 54.46 | 49.76 | 960 | 1.14 | 0.29 | 52.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:50:29 | 54.79 | 50.09 | 943 | 1.14 | 0.29 | 51.6 |
| 5/2/2015 | 2:50:30 | 55.12 | 50.42 | 911 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 2:50:43 | 55.45 | 50.75 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 2:50:43 | 55.77 | 51.07 | 66 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 | 2:50:45 | 56.10 | 51.40 | 273 | 1.14 | 0.29 | 14.9 |
| 5/2/2015 | 2:50:46 | 56.43 | 51.73 | 222 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 | 2:50:50 | 56.76 | 52.06 | 85 | 1.14 | 0.29 | 4.6 |
| 5/2/2015 | 2:50:54 | 57.09 | 52.39 | 122 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 | 2:51:01 | 57.41 | 52.71 | 23 | 1.14 | 0.29 | 1.3 |
| 5/2/2015 | 2:51:14 | 57.74 | 53.04 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 | 2:51:27 | 58.07 | 53.37 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 | 2:51:32 | 58.20 | 53.50 | 29 | 1.14 | 0.29 | 1.6 |

## M42 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:49:06

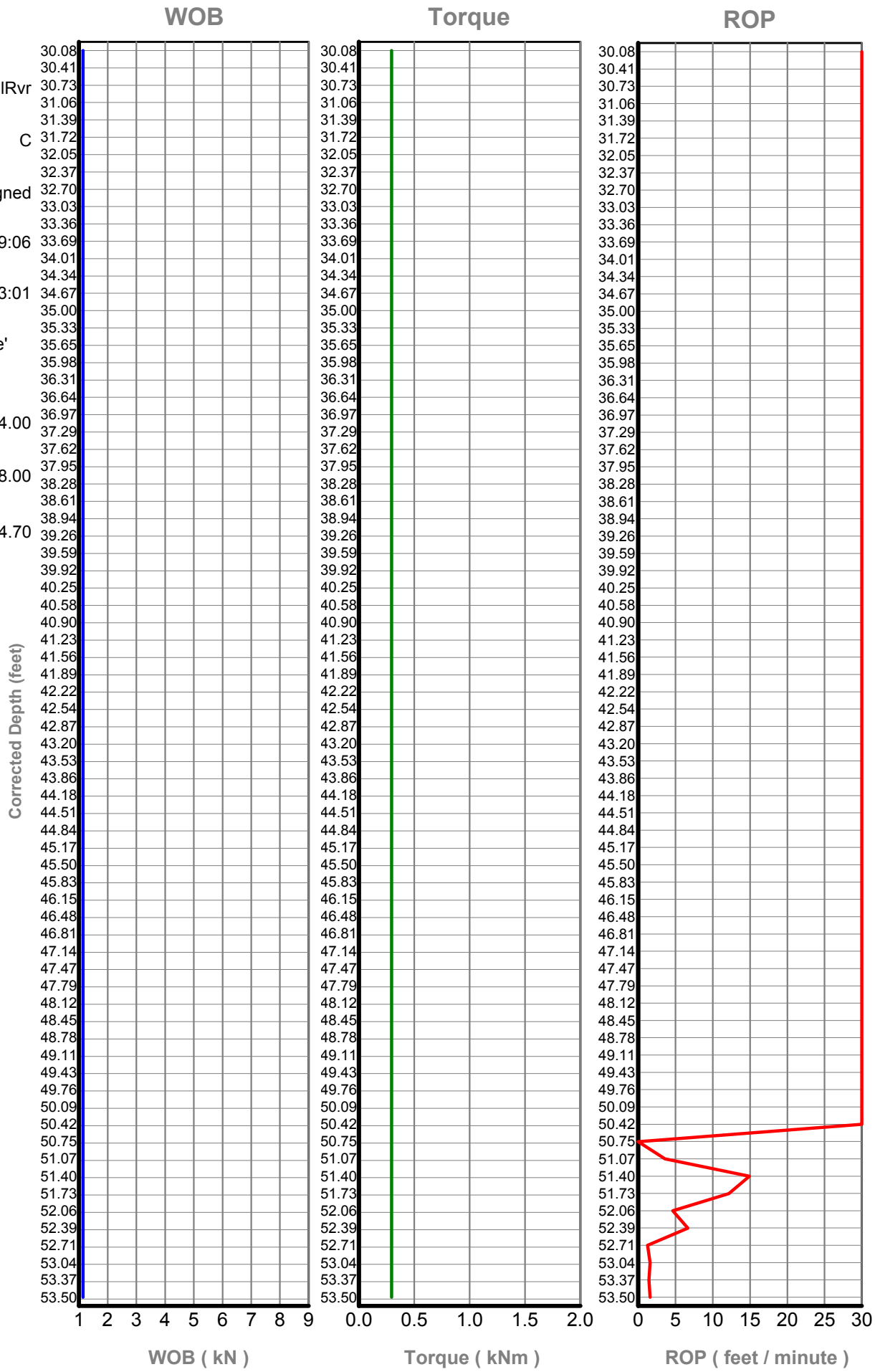
**End Date:**
5/2/2015 2:53:01

**Operator Note:**
'4.7 5.0 c Auto Complete'

**Northing:**
359,064.00

**Easting:**
240,328.00

**Tide (feet):**
4.70



## Hole: M43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:42:32 | 37.07 | 30.17 | 1,270 | 1.81 | 0.24 | 69.5 |
| 5/2/2015 0:42:32 | 37.40 | 30.50 | 1,252 | 1.83 | 0.24 | 68.4 |
| 5/2/2015 0:42:32 | 37.73 | 30.83 | 1,252 | 1.83 | 0.24 | 68.4 |
| 5/2/2015 0:42:32 | 38.06 | 31.16 | 1,255 | 1.82 | 0.24 | 68.6 |
| 5/2/2015 0:42:33 | 38.39 | 31.49 | 1,255 | 0.92 | 0.25 | 68.6 |
| 5/2/2015 0:42:33 | 38.71 | 31.81 | 1,077 | 1.21 | 0.26 | 58.9 |
| 5/2/2015 0:42:34 | 39.04 | 32.14 | 793 | 1.21 | 0.26 | 43.3 |
| 5/2/2015 0:42:35 | 39.37 | 32.47 | 671 | 1.44 | 0.26 | 36.7 |
| 5/2/2015 0:42:35 | 39.70 | 32.80 | 567 | 1.21 | 0.26 | 31.0 |
| 5/2/2015 0:42:36 | 40.03 | 33.13 | 627 | 1.21 | 0.26 | 34.3 |
| 5/2/2015 0:42:36 | 40.35 | 33.45 | 674 | 1.21 | 0.26 | 36.8 |
| 5/2/2015 0:42:37 | 40.68 | 33.78 | 676 | 1.22 | 0.26 | 37.0 |
| 5/2/2015 0:42:37 | 41.01 | 34.11 | 676 | 1.20 | 0.26 | 37.0 |
| 5/2/2015 0:42:38 | 41.34 | 34.44 | 671 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:42:38 | 41.67 | 34.77 | 673 | 1.20 | 0.26 | 36.8 |
| 5/2/2015 0:42:39 | 41.99 | 35.09 | 669 | 1.21 | 0.26 | 36.6 |
| 5/2/2015 0:42:39 | 42.32 | 35.42 | 674 | 1.22 | 0.26 | 36.8 |
| 5/2/2015 0:42:40 | 42.65 | 35.75 | 674 | 1.21 | 0.26 | 36.8 |
| 5/2/2015 0:42:40 | 42.98 | 36.08 | 674 | 1.21 | 0.26 | 36.8 |
| 5/2/2015 0:42:41 | 43.31 | 36.41 | 674 | 1.21 | 0.26 | 36.8 |
| 5/2/2015 0:42:42 | 43.64 | 36.74 | 681 | 1.21 | 0.25 | 37.2 |
| 5/2/2015 0:42:42 | 43.96 | 37.06 | 674 | 1.21 | 0.26 | 36.8 |
| 5/2/2015 0:42:43 | 44.29 | 37.39 | 671 | 1.20 | 0.26 | 36.7 |
| 5/2/2015 0:42:43 | 44.62 | 37.72 | 669 | 1.21 | 0.26 | 36.6 |
| 5/2/2015 0:42:44 | 44.95 | 38.05 | 671 | 1.20 | 0.26 | 36.7 |
| 5/2/2015 0:42:44 | 45.28 | 38.38 | 664 | 1.20 | 0.26 | 36.3 |
| 5/2/2015 0:42:45 | 45.60 | 38.70 | 665 | 1.21 | 0.25 | 36.4 |
| 5/2/2015 0:42:45 | 45.93 | 39.03 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:42:46 | 46.26 | 39.36 | 665 | 1.21 | 0.26 | 36.4 |
| 5/2/2015 0:42:46 | 46.59 | 39.69 | 665 | 1.21 | 0.26 | 36.4 |
| 5/2/2015 0:42:47 | 46.92 | 40.02 | 669 | 1.21 | 0.26 | 36.6 |
| 5/2/2015 0:42:47 | 47.24 | 40.34 | 665 | 1.21 | 0.26 | 36.4 |
| 5/2/2015 0:42:48 | 47.57 | 40.67 | 665 | 1.13 | 0.20 | 36.4 |
| 5/2/2015 0:42:48 | 47.90 | 41.00 | 668 | 1.09 | 0.20 | 36.5 |
| 5/2/2015 0:42:49 | 48.23 | 41.33 | 677 | 1.09 | 0.20 | 37.0 |
| 5/2/2015 0:42:49 | 48.56 | 41.66 | 681 | 1.09 | 0.20 | 37.2 |
| 5/2/2015 0:42:50 | 48.88 | 41.98 | 700 | 1.09 | 0.20 | 38.3 |
| 5/2/2015 0:42:51 | 49.21 | 42.31 | 705 | 1.08 | 0.20 | 38.6 |
| 5/2/2015 0:42:51 | 49.54 | 42.64 | 700 | 1.09 | 0.20 | 38.3 |
| 5/2/2015 0:42:52 | 49.87 | 42.97 | 704 | 1.09 | 0.20 | 38.5 |
| 5/2/2015 0:42:52 | 50.20 | 43.30 | 704 | 1.08 | 0.20 | 38.5 |
| 5/2/2015 0:42:53 | 50.53 | 43.63 | 689 | 1.09 | 0.20 | 37.7 |
| 5/2/2015 0:42:53 | 50.85 | 43.95 | 689 | 1.09 | 0.20 | 37.7 |
| 5/2/2015 0:42:54 | 51.18 | 44.28 | 699 | 1.10 | 0.20 | 38.2 |
| 5/2/2015 0:42:54 | 51.51 | 44.61 | 715 | 1.09 | 0.20 | 39.1 |
| 5/2/2015 0:42:55 | 51.84 | 44.94 | 685 | 1.07 | 0.20 | 37.5 |
| 5/2/2015 0:42:55 | 52.17 | 45.27 | 685 | 1.10 | 0.20 | 37.5 |
| 5/2/2015 0:42:56 | 52.49 | 45.59 | 691 | 1.09 | 0.20 | 37.8 |
| 5/2/2015 0:42:56 | 52.82 | 45.92 | 708 | 1.09 | 0.20 | 38.7 |
| 5/2/2015 0:42:57 | 53.15 | 46.25 | 700 | 1.08 | 0.20 | 38.3 |
| 5/2/2015 0:42:57 | 53.48 | 46.58 | 689 | 1.08 | 0.20 | 37.7 |
| 5/2/2015 0:42:58 | 53.81 | 46.91 | 700 | 1.09 | 0.20 | 38.3 |
| 5/2/2015 0:42:58 | 54.13 | 47.23 | 696 | 1.09 | 0.20 | 38.1 |
| 5/2/2015 0:42:59 | 54.46 | 47.56 | 671 | 1.10 | 0.20 | 36.7 |
| 5/2/2015 0:42:59 | 54.79 | 47.89 | 662 | 1.15 | 0.20 | 36.2 |
| 5/2/2015 0:43:09 | 55.12 | 48.22 | 107 | 1.07 | 1.15 | 5.9 |
| 5/2/2015 0:43:10 | 55.45 | 48.55 | 207 | 1.08 | 1.05 | 11.3 |
| 5/2/2015 0:43:12 | 55.77 | 48.87 | 255 | 1.12 | 1.23 | 13.9 |
| 5/2/2015 0:43:16 | 56.10 | 49.20 | 80 | 1.13 | 1.02 | 4.4 |
| 5/2/2015 0:43:26 | 56.43 | 49.53 | 37 | 1.00 | 0.91 | 2.0 |
| 5/2/2015 0:43:36 | 56.76 | 49.86 | 36 | 1.11 | 0.90 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:43:45 | 57.09 | 50.19 | 35 | 0.66 | 1.09 | 1.9 |

## M43 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:35:08

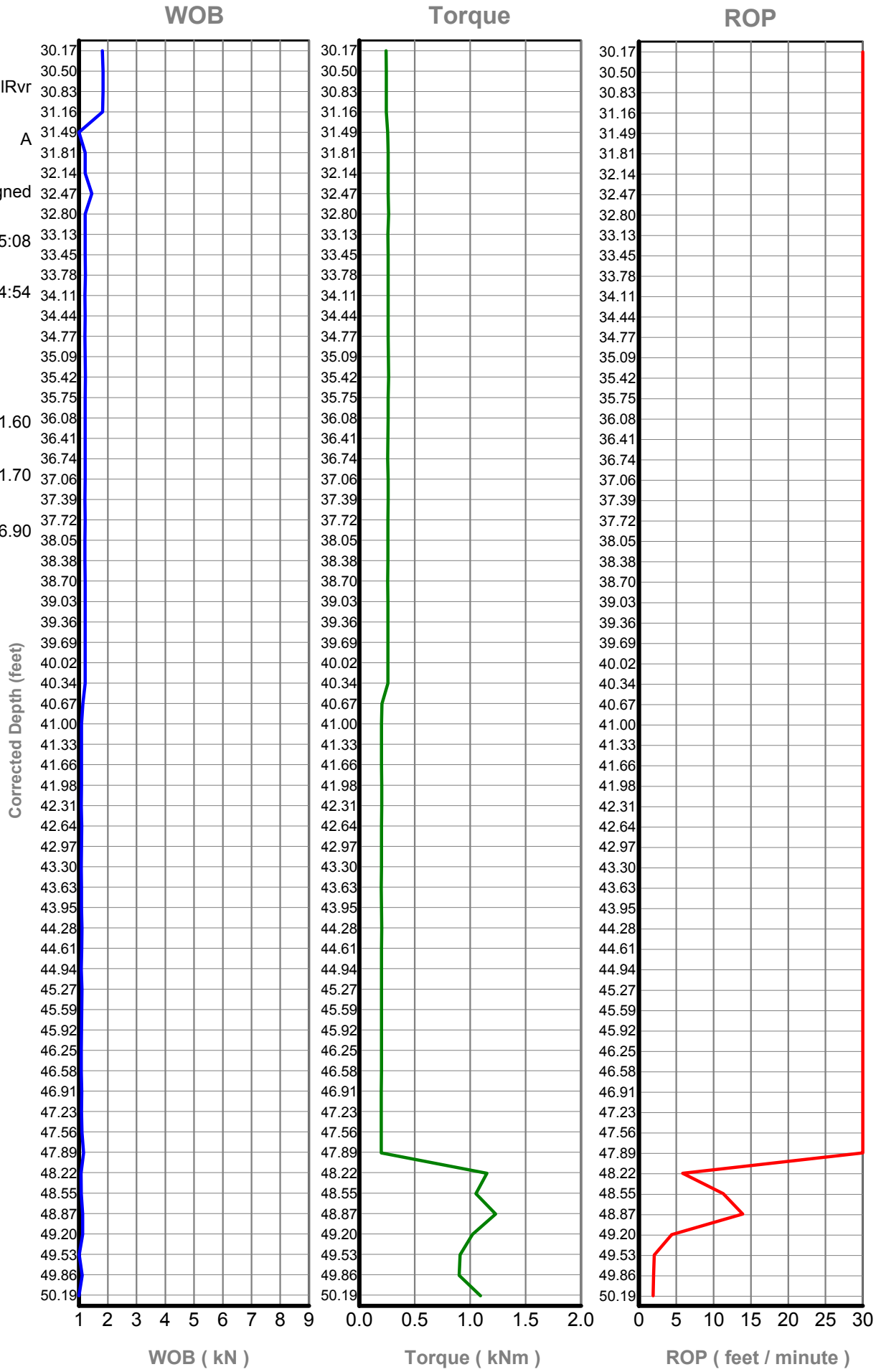
**End Date:**
5/2/2015 0:44:54

**Operator Note:**
'6.9 7 a Auto Complete'

**Northing:**
359,101.60

**Easting:**
240,391.70

**Tide (feet):**
6.90



## Hole: M44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:43:25 | 37.07 | 30.27 | 1,142 | 0.31 | 0.38 | 62.4 |
| 5/2/2015 0:43:25 | 37.40 | 30.60 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 0:43:26 | 37.73 | 30.93 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 0:43:26 | 38.06 | 31.26 | 1,150 | 0.31 | 0.37 | 62.9 |
| 5/2/2015 0:43:26 | 38.39 | 31.59 | 1,150 | 0.31 | 0.37 | 62.9 |
| 5/2/2015 0:43:26 | 38.71 | 31.91 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 0:43:27 | 39.04 | 32.24 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 0:43:27 | 39.37 | 32.57 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 0:43:27 | 39.70 | 32.90 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:43:28 | 40.03 | 33.23 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:43:28 | 40.35 | 33.55 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 0:43:28 | 40.68 | 33.88 | 1,162 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 0:43:29 | 41.01 | 34.21 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/2/2015 0:43:29 | 41.34 | 34.54 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 0:43:30 | 41.67 | 34.87 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 0:43:30 | 41.99 | 35.19 | 1,166 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 0:43:30 | 42.32 | 35.52 | 1,166 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 0:43:30 | 42.65 | 35.85 | 1,155 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 0:43:31 | 42.98 | 36.18 | 1,166 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 0:43:31 | 43.31 | 36.51 | 1,166 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 0:43:31 | 43.64 | 36.84 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 0:43:32 | 43.96 | 37.16 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 0:43:32 | 44.29 | 37.49 | 1,175 | 0.32 | 0.37 | 64.3 |
| 5/2/2015 0:43:32 | 44.62 | 37.82 | 1,175 | 0.32 | 0.37 | 64.3 |
| 5/2/2015 0:43:32 | 44.95 | 38.15 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 0:43:33 | 45.28 | 38.48 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/2/2015 0:43:33 | 45.60 | 38.80 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/2/2015 0:43:33 | 45.93 | 39.13 | 1,153 | 0.32 | 0.37 | 63.0 |
| 5/2/2015 0:43:34 | 46.26 | 39.46 | 1,153 | 0.32 | 0.37 | 63.0 |
| 5/2/2015 0:43:34 | 46.59 | 39.79 | 1,166 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 0:43:34 | 46.92 | 40.12 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:35 | 47.24 | 40.44 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:35 | 47.57 | 40.77 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:35 | 47.90 | 41.10 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:35 | 48.23 | 41.43 | 1,141 | 0.33 | 0.37 | 62.4 |
| 5/2/2015 0:43:36 | 48.56 | 41.76 | 1,141 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 0:43:36 | 48.88 | 42.08 | 1,141 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 0:43:36 | 49.21 | 42.41 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 0:43:37 | 49.54 | 42.74 | 1,146 | 0.32 | 0.38 | 62.7 |
| 5/2/2015 0:43:37 | 49.87 | 43.07 | 1,163 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 0:43:37 | 50.20 | 43.40 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:43:38 | 50.53 | 43.73 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:43:38 | 50.85 | 44.05 | 1,171 | 0.32 | 0.38 | 64.0 |
| 5/2/2015 0:43:38 | 51.18 | 44.38 | 1,171 | 0.32 | 0.38 | 64.0 |
| 5/2/2015 0:43:38 | 51.51 | 44.71 | 1,171 | 0.32 | 0.38 | 64.1 |
| 5/2/2015 0:43:39 | 51.84 | 45.04 | 1,171 | 0.32 | 0.38 | 64.1 |
| 5/2/2015 0:43:39 | 52.17 | 45.37 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:43:40 | 52.49 | 45.69 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 0:43:40 | 52.82 | 46.02 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 0:43:40 | 53.15 | 46.35 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 0:43:41 | 53.48 | 46.68 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 0:43:41 | 53.81 | 47.01 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 0:43:41 | 54.13 | 47.33 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:42 | 54.46 | 47.66 | 1,133 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 0:43:42 | 54.79 | 47.99 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/2/2015 0:43:42 | 55.12 | 48.32 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/2/2015 0:43:43 | 55.45 | 48.65 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/2/2015 0:43:43 | 55.77 | 48.97 | 1,100 | 0.30 | 0.39 | 60.1 |
| 5/2/2015 0:43:43 | 56.10 | 49.30 | 1,080 | 0.29 | 0.45 | 59.0 |
| 5/2/2015 0:43:51 | 56.43 | 49.63 | 34 | 3.95 | 0.44 | 1.9 |
| 5/2/2015 0:43:53 | 56.76 | 49.96 | 125 | 3.90 | 0.46 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:43:56 | 57.09 | 50.29 | 144 | 3.83 | 0.46 | 7.9 |
| 5/2/2015 | 0:43:58 | 57.41 | 50.61 | 176 | 5.71 | 0.44 | 9.6 |
| 5/2/2015 | 0:44:01 | 57.74 | 50.94 | 124 | 3.07 | 0.42 | 6.8 |
| 5/2/2015 | 0:44:02 | 58.07 | 51.27 | 128 | 4.34 | 0.45 | 7.0 |
| 5/2/2015 | 0:44:03 | 58.40 | 51.60 | 287 | 4.26 | 0.45 | 15.7 |
| 5/2/2015 | 0:44:05 | 58.73 | 51.93 | 246 | 3.75 | 0.45 | 13.4 |
| 5/2/2015 | 0:44:06 | 59.06 | 52.26 | 225 | 4.33 | 0.47 | 12.3 |
| 5/2/2015 | 0:44:07 | 59.38 | 52.58 | 242 | 4.71 | 0.46 | 13.2 |
| 5/2/2015 | 0:44:09 | 59.71 | 52.91 | 232 | 4.02 | 0.45 | 12.7 |
| 5/2/2015 | 0:44:11 | 60.04 | 53.24 | 214 | 4.07 | 0.45 | 11.7 |
| 5/2/2015 | 0:44:13 | 60.37 | 53.57 | 235 | 4.86 | 0.44 | 12.8 |
| 5/2/2015 | 0:44:14 | 60.70 | 53.90 | 249 | 3.67 | 0.45 | 13.6 |
| 5/2/2015 | 0:44:15 | 61.02 | 54.22 | 275 | 3.66 | 0.45 | 15.1 |
| 5/2/2015 | 0:44:16 | 61.35 | 54.55 | 313 | 3.99 | 0.45 | 17.1 |
| 5/2/2015 | 0:44:23 | 61.68 | 54.88 | 35 | 3.17 | 0.47 | 1.9 |
| 5/2/2015 | 0:44:31 | 62.00 | 55.20 | 55 | 3.64 | 0.46 | 3.0 |

## M44 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:41:55

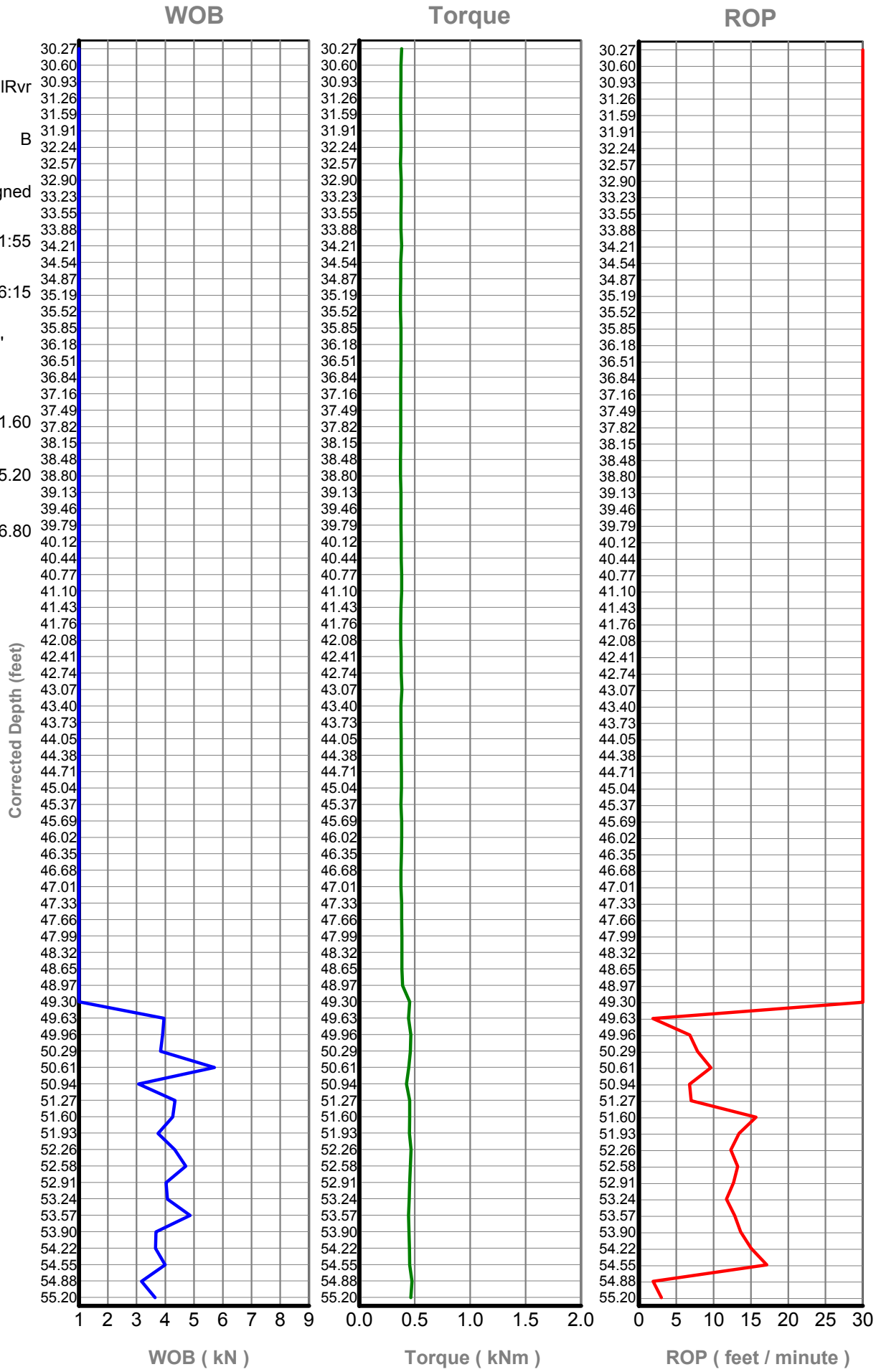
**End Date:**
5/2/2015 0:46:15

**Operator Note:**
'6.8 7.0b Auto Complete'

**Northing:**
359,141.60

**Easting:**
240,455.20

**Tide (feet):**
6.80



## Hole: M45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:42:00 | 37.07 | 30.27 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 0:42:00 | 37.40 | 30.60 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 0:42:01 | 37.73 | 30.93 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:42:01 | 38.06 | 31.26 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:42:01 | 38.39 | 31.59 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 0:42:02 | 38.71 | 31.91 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:42:02 | 39.04 | 32.24 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 0:42:02 | 39.37 | 32.57 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:42:03 | 39.70 | 32.90 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:03 | 40.03 | 33.23 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 0:42:04 | 40.35 | 33.55 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 0:42:04 | 40.68 | 33.88 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:04 | 41.01 | 34.21 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:05 | 41.34 | 34.54 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:05 | 41.67 | 34.87 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:05 | 41.99 | 35.19 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:06 | 42.32 | 35.52 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:06 | 42.65 | 35.85 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:06 | 42.98 | 36.18 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:07 | 43.31 | 36.51 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:07 | 43.64 | 36.84 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 0:42:07 | 43.96 | 37.16 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:08 | 44.29 | 37.49 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:08 | 44.62 | 37.82 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:08 | 44.95 | 38.15 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:42:09 | 45.28 | 38.48 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:42:09 | 45.60 | 38.80 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:42:09 | 45.93 | 39.13 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:42:10 | 46.26 | 39.46 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:42:10 | 46.59 | 39.79 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:11 | 46.92 | 40.12 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:11 | 47.24 | 40.44 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:11 | 47.57 | 40.77 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:42:12 | 47.90 | 41.10 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:12 | 48.23 | 41.43 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:12 | 48.56 | 41.76 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:42:13 | 48.88 | 42.08 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 0:42:13 | 49.21 | 42.41 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 0:42:14 | 49.54 | 42.74 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 0:42:14 | 49.87 | 43.07 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 0:42:14 | 50.20 | 43.40 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:15 | 50.53 | 43.73 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:15 | 50.85 | 44.05 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 0:42:15 | 51.18 | 44.38 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:16 | 51.51 | 44.71 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:16 | 51.84 | 45.04 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:42:16 | 52.17 | 45.37 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:42:17 | 52.49 | 45.69 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:42:17 | 52.82 | 46.02 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:42:17 | 53.15 | 46.35 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 0:42:18 | 53.48 | 46.68 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 0:42:18 | 53.81 | 47.01 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 0:42:18 | 54.13 | 47.33 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 0:42:19 | 54.46 | 47.66 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 0:42:19 | 54.79 | 47.99 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 0:42:19 | 55.12 | 48.32 | 948 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 0:42:20 | 55.45 | 48.65 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 0:42:20 | 55.77 | 48.97 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 0:42:30 | 56.10 | 49.30 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 0:42:34 | 56.43 | 49.63 | 81 | 1.14 | 0.29 | 4.5 |
| 5/2/2015 0:42:37 | 56.76 | 49.96 | 106 | 1.14 | 0.29 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:42:41 | 57.09 | 50.29 | 81 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 0:42:47 | 57.41 | 50.61 | 62 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 | 0:42:53 | 57.74 | 50.94 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 0:42:59 | 58.07 | 51.27 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 | 0:43:04 | 58.40 | 51.60 | 56 | 1.14 | 0.29 | 3.1 |
| 5/2/2015 | 0:43:12 | 58.73 | 51.93 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 0:43:18 | 59.06 | 52.26 | 58 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 | 0:43:22 | 59.34 | 52.54 | 70 | 1.14 | 0.29 | 3.8 |

## M45 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:41:01

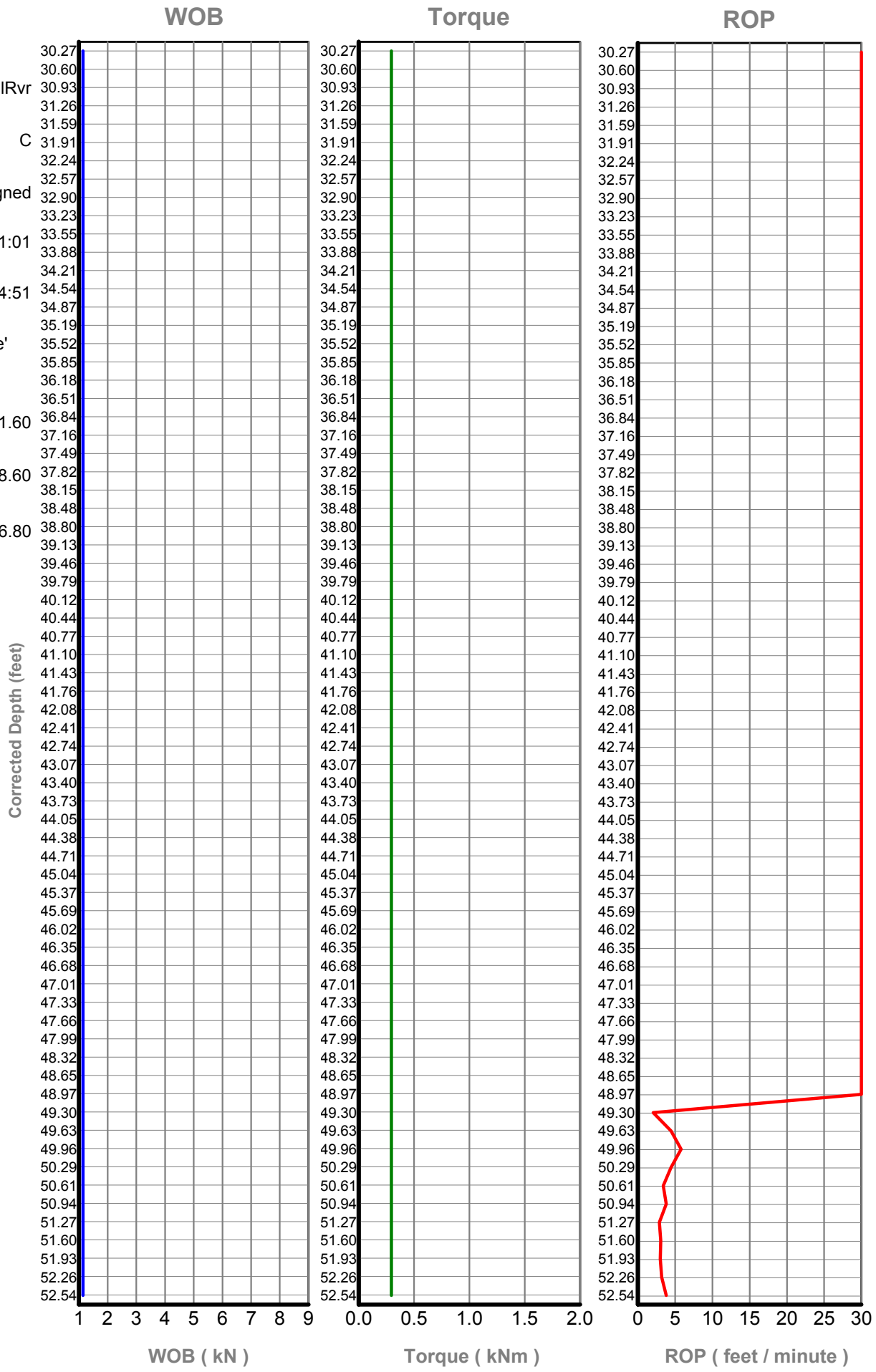
**End Date:**
5/2/2015 0:44:51

**Operator Note:**
'6.8 7.0 c Auto Complete'

**Northing:**
359,181.60

**Easting:**
240,518.60

**Tide (feet):**
6.80



## Hole: M46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:57:05 | 37.07 | 30.27 | 1,111 | 1.70 | 0.81 | 60.8 |
| 5/1/2015 22:57:05 | 37.40 | 30.60 | 1,111 | 1.70 | 0.81 | 60.8 |
| 5/1/2015 22:57:05 | 37.73 | 30.93 | 1,125 | 1.68 | 0.78 | 61.5 |
| 5/1/2015 22:57:06 | 38.06 | 31.26 | 1,131 | 1.70 | 0.79 | 61.9 |
| 5/1/2015 22:57:06 | 38.39 | 31.59 | 1,131 | 1.70 | 0.79 | 61.9 |
| 5/1/2015 22:57:06 | 38.71 | 31.91 | 1,128 | 1.70 | 0.79 | 61.7 |
| 5/1/2015 22:57:07 | 39.04 | 32.24 | 1,128 | 1.70 | 0.79 | 61.7 |
| 5/1/2015 22:57:07 | 39.37 | 32.57 | 1,131 | 1.70 | 0.79 | 61.9 |
| 5/1/2015 22:57:07 | 39.70 | 32.90 | 1,135 | 1.71 | 0.78 | 62.1 |
| 5/1/2015 22:57:08 | 40.03 | 33.23 | 1,135 | 1.71 | 0.78 | 62.1 |
| 5/1/2015 22:57:08 | 40.35 | 33.55 | 1,130 | 1.70 | 0.79 | 61.8 |
| 5/1/2015 22:57:08 | 40.68 | 33.88 | 1,130 | 1.70 | 0.79 | 61.8 |
| 5/1/2015 22:57:08 | 41.01 | 34.21 | 1,125 | 1.70 | 0.77 | 61.5 |
| 5/1/2015 22:57:09 | 41.34 | 34.54 | 1,122 | 1.70 | 0.77 | 61.3 |
| 5/1/2015 22:57:09 | 41.67 | 34.87 | 1,122 | 1.70 | 0.77 | 61.3 |
| 5/1/2015 22:57:09 | 41.99 | 35.19 | 1,119 | 1.71 | 0.79 | 61.2 |
| 5/1/2015 22:57:10 | 42.32 | 35.52 | 1,119 | 1.71 | 0.79 | 61.2 |
| 5/1/2015 22:57:10 | 42.65 | 35.85 | 1,125 | 1.70 | 0.78 | 61.5 |
| 5/1/2015 22:57:10 | 42.98 | 36.18 | 1,119 | 1.71 | 0.79 | 61.2 |
| 5/1/2015 22:57:11 | 43.31 | 36.51 | 1,119 | 1.71 | 0.79 | 61.2 |
| 5/1/2015 22:57:11 | 43.64 | 36.84 | 1,119 | 1.71 | 0.80 | 61.2 |
| 5/1/2015 22:57:11 | 43.96 | 37.16 | 1,115 | 1.70 | 0.78 | 61.0 |
| 5/1/2015 22:57:12 | 44.29 | 37.49 | 1,115 | 1.70 | 0.78 | 61.0 |
| 5/1/2015 22:57:12 | 44.62 | 37.82 | 1,124 | 1.66 | 0.80 | 61.5 |
| 5/1/2015 22:57:13 | 44.95 | 38.15 | 1,124 | 1.66 | 0.80 | 61.5 |
| 5/1/2015 22:57:13 | 45.28 | 38.48 | 1,110 | 1.46 | 0.80 | 60.7 |
| 5/1/2015 22:57:16 | 45.60 | 38.80 | 24 | 1.47 | 0.79 | 1.3 |
| 5/1/2015 22:57:17 | 45.93 | 39.13 | 238 | 1.24 | 0.82 | 13.0 |
| 5/1/2015 22:57:18 | 46.26 | 39.46 | 359 | 1.25 | 0.79 | 19.6 |
| 5/1/2015 22:57:19 | 46.59 | 39.79 | 430 | 1.21 | 0.79 | 23.5 |
| 5/1/2015 22:57:20 | 46.92 | 40.12 | 410 | 1.20 | 0.78 | 22.4 |
| 5/1/2015 22:57:20 | 47.24 | 40.44 | 451 | 1.22 | 0.82 | 24.7 |
| 5/1/2015 22:57:21 | 47.57 | 40.77 | 483 | 1.21 | 0.82 | 26.4 |
| 5/1/2015 22:57:22 | 47.90 | 41.10 | 491 | 1.21 | 0.82 | 26.9 |
| 5/1/2015 22:57:23 | 48.23 | 41.43 | 488 | 1.21 | 0.81 | 26.7 |
| 5/1/2015 22:57:24 | 48.56 | 41.76 | 494 | 1.21 | 0.78 | 27.0 |
| 5/1/2015 22:57:24 | 48.88 | 42.08 | 494 | 1.21 | 0.81 | 27.0 |
| 5/1/2015 22:57:25 | 49.21 | 42.41 | 497 | 1.21 | 0.79 | 27.2 |
| 5/1/2015 22:57:26 | 49.54 | 42.74 | 486 | 1.21 | 0.83 | 26.6 |
| 5/1/2015 22:57:26 | 49.87 | 43.07 | 486 | 1.21 | 0.80 | 26.6 |
| 5/1/2015 22:57:27 | 50.20 | 43.40 | 491 | 1.23 | 0.78 | 26.9 |
| 5/1/2015 22:57:28 | 50.53 | 43.73 | 485 | 1.21 | 0.82 | 26.5 |
| 5/1/2015 22:57:28 | 50.85 | 44.05 | 488 | 1.21 | 0.81 | 26.7 |
| 5/1/2015 22:57:29 | 51.18 | 44.38 | 494 | 1.11 | 0.78 | 27.0 |
| 5/1/2015 22:57:30 | 51.51 | 44.71 | 503 | 1.10 | 0.75 | 27.5 |
| 5/1/2015 22:57:30 | 51.84 | 45.04 | 515 | 1.10 | 0.76 | 28.1 |
| 5/1/2015 22:57:31 | 52.17 | 45.37 | 520 | 1.11 | 0.76 | 28.4 |
| 5/1/2015 22:57:31 | 52.49 | 45.69 | 535 | 1.09 | 0.76 | 29.3 |
| 5/1/2015 22:57:33 | 52.82 | 46.02 | 592 | 1.08 | 0.75 | 32.4 |
| 5/1/2015 22:57:33 | 53.15 | 46.35 | 619 | 1.08 | 0.19 | 33.8 |
| 5/1/2015 22:57:34 | 53.48 | 46.68 | 647 | 1.10 | 0.20 | 35.4 |
| 5/1/2015 22:57:34 | 53.81 | 47.01 | 670 | 1.09 | 0.20 | 36.6 |
| 5/1/2015 22:57:35 | 54.13 | 47.33 | 679 | 1.10 | 0.20 | 37.1 |
| 5/1/2015 22:57:35 | 54.46 | 47.66 | 682 | 1.10 | 0.20 | 37.3 |
| 5/1/2015 22:57:36 | 54.79 | 47.99 | 682 | 1.11 | 0.20 | 37.3 |
| 5/1/2015 22:57:36 | 55.12 | 48.32 | 679 | 1.11 | 0.20 | 37.1 |
| 5/1/2015 22:57:37 | 55.45 | 48.65 | 671 | 1.11 | 0.21 | 36.7 |
| 5/1/2015 22:57:37 | 55.77 | 48.97 | 656 | 1.12 | 0.20 | 35.9 |
| 5/1/2015 22:57:38 | 56.10 | 49.30 | 645 | 1.11 | 0.20 | 35.3 |
| 5/1/2015 22:57:38 | 56.43 | 49.63 | 621 | 1.12 | 0.20 | 34.0 |
| 5/1/2015 22:58:03 | 56.76 | 49.96 | 75 | 1.03 | 1.11 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:58:05 | 57.09 | 50.29 | 239 | 1.16 | 0.99 | 13.1 |
| 5/1/2015 | 22:58:06 | 57.41 | 50.61 | 314 | 1.17 | 1.26 | 17.2 |
| 5/1/2015 | 22:58:08 | 57.74 | 50.94 | 248 | 1.18 | 1.11 | 13.6 |
| 5/1/2015 | 22:58:10 | 58.07 | 51.27 | 136 | 1.11 | 1.16 | 7.4 |
| 5/1/2015 | 22:58:14 | 58.40 | 51.60 | 113 | 1.07 | 1.14 | 6.2 |
| 5/1/2015 | 22:58:23 | 58.73 | 51.93 | 68 | 1.09 | 1.21 | 3.7 |
| 5/1/2015 | 22:58:27 | 59.06 | 52.26 | 90 | 1.09 | 1.07 | 4.9 |
| 5/1/2015 | 22:58:31 | 59.38 | 52.58 | 78 | 1.16 | 1.18 | 4.3 |
| 5/1/2015 | 22:58:36 | 59.71 | 52.91 | 85 | 1.15 | 1.13 | 4.6 |
| 5/1/2015 | 22:58:39 | 60.04 | 53.24 | 86 | 1.08 | 1.08 | 4.7 |
| 5/1/2015 | 22:58:43 | 60.37 | 53.57 | 107 | 1.14 | 1.17 | 5.9 |
| 5/1/2015 | 22:58:46 | 60.70 | 53.90 | 121 | 1.10 | 1.06 | 6.6 |
| 5/1/2015 | 22:58:55 | 61.02 | 54.22 | 75 | 1.13 | 1.21 | 4.1 |
| 5/1/2015 | 22:59:00 | 61.35 | 54.55 | 63 | 1.02 | 1.11 | 3.4 |
| 5/1/2015 | 22:59:07 | 61.66 | 54.86 | 40 | 1.11 | 1.23 | 2.2 |

## M46 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:55:08

**End Date:**
5/1/2015 23:00:40

**Operator Note:**
'6.8 6.7 a Auto Complete'

**Northing:**
359,228.89

**Easting:**
240,585.24

**Tide (feet):**
6.80



## Hole: M47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:57:42 | 37.07 | 30.27 | 1,082 | 0.31 | 0.38 | 59.2 |
| 5/1/2015 22:57:42 | 37.40 | 30.60 | 1,109 | 0.31 | 0.39 | 60.6 |
| 5/1/2015 22:57:43 | 37.73 | 30.93 | 1,109 | 0.31 | 0.39 | 60.6 |
| 5/1/2015 22:57:43 | 38.06 | 31.26 | 1,104 | 0.29 | 0.38 | 60.4 |
| 5/1/2015 22:57:43 | 38.39 | 31.59 | 1,104 | 0.29 | 0.38 | 60.4 |
| 5/1/2015 22:57:43 | 38.71 | 31.91 | 1,110 | 0.32 | 0.38 | 60.7 |
| 5/1/2015 22:57:44 | 39.04 | 32.24 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/1/2015 22:57:44 | 39.37 | 32.57 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/1/2015 22:57:44 | 39.70 | 32.90 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/1/2015 22:57:45 | 40.03 | 33.23 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/1/2015 22:57:45 | 40.35 | 33.55 | 1,112 | 0.32 | 0.37 | 60.8 |
| 5/1/2015 22:57:45 | 40.68 | 33.88 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/1/2015 22:57:46 | 41.01 | 34.21 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/1/2015 22:57:46 | 41.34 | 34.54 | 1,118 | 0.32 | 0.38 | 61.1 |
| 5/1/2015 22:57:46 | 41.67 | 34.87 | 1,112 | 0.33 | 0.37 | 60.8 |
| 5/1/2015 22:57:47 | 41.99 | 35.19 | 1,112 | 0.33 | 0.37 | 60.8 |
| 5/1/2015 22:57:47 | 42.32 | 35.52 | 1,119 | 0.32 | 0.38 | 61.2 |
| 5/1/2015 22:57:48 | 42.65 | 35.85 | 1,119 | 0.32 | 0.38 | 61.2 |
| 5/1/2015 22:57:48 | 42.98 | 36.18 | 1,138 | 0.33 | 0.37 | 62.2 |
| 5/1/2015 22:57:48 | 43.31 | 36.51 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:57:49 | 43.64 | 36.84 | 1,128 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:57:49 | 43.96 | 37.16 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 22:57:49 | 44.29 | 37.49 | 1,125 | 0.33 | 0.38 | 61.5 |
| 5/1/2015 22:57:49 | 44.62 | 37.82 | 1,120 | 0.33 | 0.38 | 61.2 |
| 5/1/2015 22:57:50 | 44.95 | 38.15 | 1,123 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 22:57:50 | 45.28 | 38.48 | 1,123 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 22:57:50 | 45.60 | 38.80 | 1,122 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 22:57:51 | 45.93 | 39.13 | 1,122 | 0.32 | 0.38 | 61.4 |
| 5/1/2015 22:57:51 | 46.26 | 39.46 | 1,120 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 22:57:51 | 46.59 | 39.79 | 1,117 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 22:57:52 | 46.92 | 40.12 | 1,117 | 0.33 | 0.38 | 61.1 |
| 5/1/2015 22:57:52 | 47.24 | 40.44 | 1,132 | 0.33 | 0.37 | 61.9 |
| 5/1/2015 22:57:52 | 47.57 | 40.77 | 1,121 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 22:57:53 | 47.90 | 41.10 | 1,121 | 0.33 | 0.37 | 61.3 |
| 5/1/2015 22:57:53 | 48.23 | 41.43 | 1,128 | 0.33 | 0.37 | 61.7 |
| 5/1/2015 22:57:53 | 48.56 | 41.76 | 1,128 | 0.33 | 0.37 | 61.7 |
| 5/1/2015 22:57:53 | 48.88 | 42.08 | 1,127 | 0.33 | 0.37 | 61.6 |
| 5/1/2015 22:57:54 | 49.21 | 42.41 | 1,124 | 0.33 | 0.37 | 61.4 |
| 5/1/2015 22:57:54 | 49.54 | 42.74 | 1,124 | 0.33 | 0.37 | 61.4 |
| 5/1/2015 22:57:54 | 49.87 | 43.07 | 1,133 | 0.33 | 0.37 | 62.0 |
| 5/1/2015 22:57:55 | 50.20 | 43.40 | 1,133 | 0.33 | 0.37 | 62.0 |
| 5/1/2015 22:57:55 | 50.53 | 43.73 | 1,130 | 0.33 | 0.37 | 61.8 |
| 5/1/2015 22:57:55 | 50.85 | 44.05 | 1,130 | 0.33 | 0.39 | 61.8 |
| 5/1/2015 22:57:56 | 51.18 | 44.38 | 1,130 | 0.33 | 0.39 | 61.8 |
| 5/1/2015 22:57:56 | 51.51 | 44.71 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 22:57:56 | 51.84 | 45.04 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 22:57:56 | 52.17 | 45.37 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 22:57:57 | 52.49 | 45.69 | 1,112 | 0.32 | 0.37 | 60.8 |
| 5/1/2015 22:57:57 | 52.82 | 46.02 | 1,112 | 0.32 | 0.37 | 60.8 |
| 5/1/2015 22:57:57 | 53.15 | 46.35 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 22:57:58 | 53.48 | 46.68 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/1/2015 22:57:59 | 53.81 | 47.01 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/1/2015 22:57:59 | 54.13 | 47.33 | 1,105 | 0.33 | 0.39 | 60.4 |
| 5/1/2015 22:57:59 | 54.46 | 47.66 | 1,105 | 0.33 | 0.39 | 60.4 |
| 5/1/2015 22:57:59 | 54.79 | 47.99 | 1,093 | 0.33 | 0.38 | 59.8 |
| 5/1/2015 22:58:00 | 55.12 | 48.32 | 1,097 | 0.33 | 0.39 | 60.0 |
| 5/1/2015 22:58:00 | 55.45 | 48.65 | 1,097 | 0.33 | 0.39 | 60.0 |
| 5/1/2015 22:58:00 | 55.77 | 48.97 | 1,064 | 0.32 | 0.39 | 58.2 |
| 5/1/2015 22:58:01 | 56.10 | 49.30 | 1,062 | 0.33 | 0.39 | 58.1 |
| 5/1/2015 22:58:01 | 56.43 | 49.63 | 1,062 | 0.33 | 0.39 | 58.1 |
| 5/1/2015 22:58:01 | 56.76 | 49.96 | 1,039 | 0.34 | 0.39 | 56.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:58:02 | 57.09 | 50.29 | 1,027 | 0.32 | 0.39 | 56.2 |
| 5/1/2015 | 22:58:02 | 57.41 | 50.61 | 986 | 0.32 | 0.39 | 53.9 |
| 5/1/2015 | 22:58:03 | 57.74 | 50.94 | 986 | 0.32 | 0.39 | 53.9 |
| 5/1/2015 | 22:58:03 | 58.07 | 51.27 | 980 | 0.32 | 0.39 | 53.6 |
| 5/1/2015 | 22:58:03 | 58.40 | 51.60 | 953 | 0.31 | 0.40 | 52.1 |
| 5/1/2015 | 22:58:04 | 58.73 | 51.93 | 916 | 0.31 | 0.40 | 50.1 |
| 5/1/2015 | 22:58:04 | 59.06 | 52.26 | 916 | 0.31 | 0.40 | 50.1 |
| 5/1/2015 | 22:58:04 | 59.38 | 52.58 | 892 | 0.32 | 0.40 | 48.8 |
| 5/1/2015 | 22:58:05 | 59.71 | 52.91 | 879 | 0.31 | 0.41 | 48.1 |
| 5/1/2015 | 22:58:14 | 60.04 | 53.24 | 0 | 4.38 | 0.47 | 0.0 |
| 5/1/2015 | 22:58:17 | 60.37 | 53.57 | 135 | 4.91 | 0.47 | 7.4 |
| 5/1/2015 | 22:58:22 | 60.70 | 53.90 | 104 | 3.83 | 0.46 | 5.7 |
| 5/1/2015 | 22:58:24 | 61.02 | 54.22 | 145 | 3.87 | 0.46 | 7.9 |
| 5/1/2015 | 22:58:26 | 61.35 | 54.55 | 155 | 4.11 | 0.46 | 8.5 |
| 5/1/2015 | 22:58:30 | 61.68 | 54.88 | 118 | 4.83 | 0.46 | 6.5 |

## M47 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:56:08

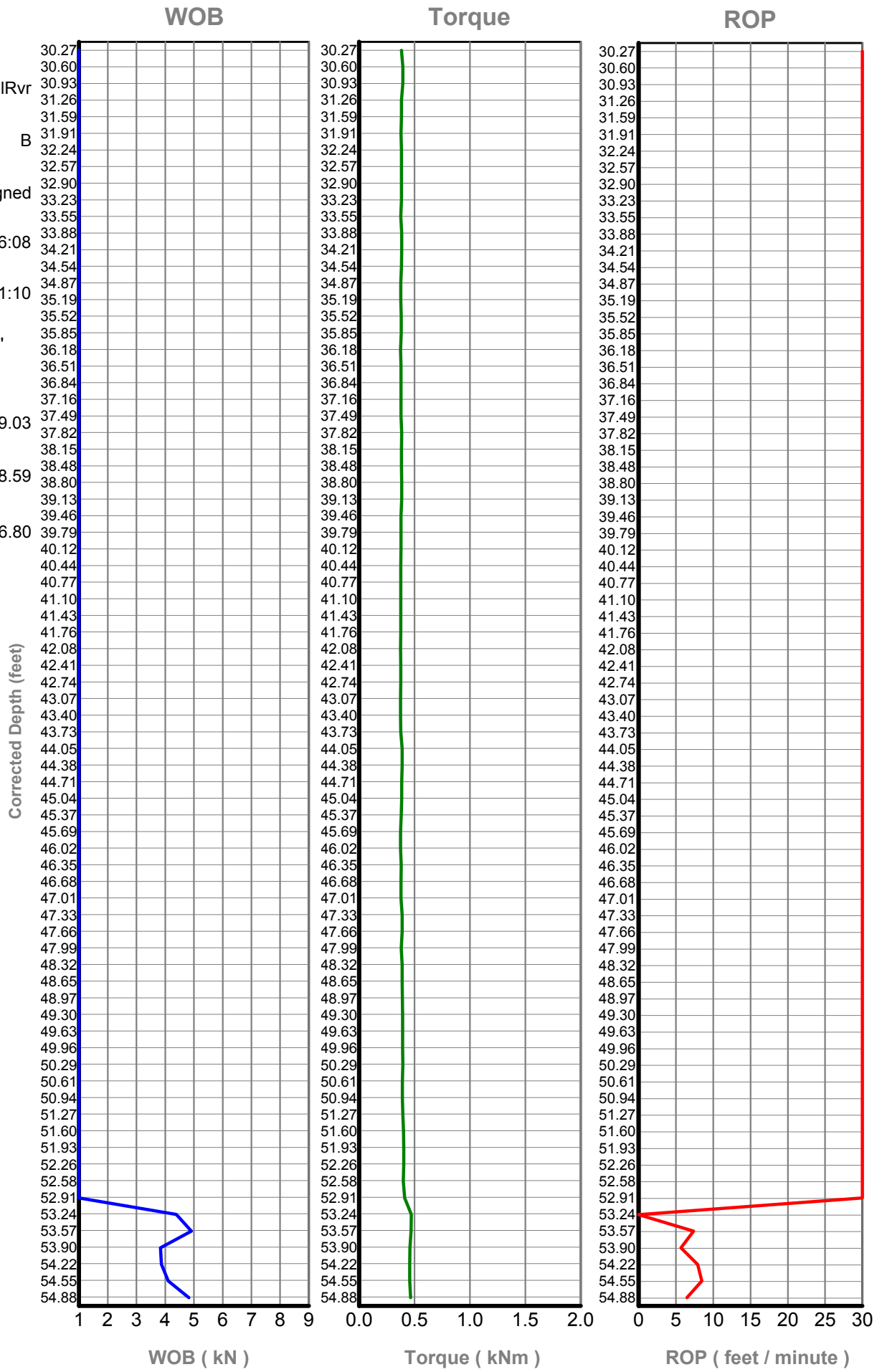
**End Date:**
5/1/2015 23:01:10

**Operator Note:**
'6.8 6.7b Auto Complete'

**Northing:**
359,269.03

**Easting:**
240,648.59

**Tide (feet):**
6.80



## Hole: M48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:56:28 | 37.07 | 30.27 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:28 | 37.40 | 30.60 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:28 | 37.73 | 30.93 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:29 | 38.06 | 31.26 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 22:56:29 | 38.39 | 31.59 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 22:56:29 | 38.71 | 31.91 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:30 | 39.04 | 32.24 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:30 | 39.37 | 32.57 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:56:30 | 39.70 | 32.90 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 22:56:31 | 40.03 | 33.23 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 22:56:31 | 40.35 | 33.55 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 22:56:31 | 40.68 | 33.88 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:56:32 | 41.01 | 34.21 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:56:32 | 41.34 | 34.54 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:56:32 | 41.67 | 34.87 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 22:56:33 | 41.99 | 35.19 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:33 | 42.32 | 35.52 | 999 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:33 | 42.65 | 35.85 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 22:56:34 | 42.98 | 36.18 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:56:34 | 43.31 | 36.51 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:56:35 | 43.64 | 36.84 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:56:35 | 43.96 | 37.16 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:56:35 | 44.29 | 37.49 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:36 | 44.62 | 37.82 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:36 | 44.95 | 38.15 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:36 | 45.28 | 38.48 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:37 | 45.60 | 38.80 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:37 | 45.93 | 39.13 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:38 | 46.26 | 39.46 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 22:56:38 | 46.59 | 39.79 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 22:56:38 | 46.92 | 40.12 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:39 | 47.24 | 40.44 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:56:39 | 47.57 | 40.77 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:56:39 | 47.90 | 41.10 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 22:56:40 | 48.23 | 41.43 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:56:40 | 48.56 | 41.76 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:56:40 | 48.88 | 42.08 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 22:56:41 | 49.21 | 42.41 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:41 | 49.54 | 42.74 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:42 | 49.87 | 43.07 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:56:42 | 50.20 | 43.40 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 22:56:42 | 50.53 | 43.73 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:56:43 | 50.85 | 44.05 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:56:43 | 51.18 | 44.38 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 22:56:43 | 51.51 | 44.71 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:56:44 | 51.84 | 45.04 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:56:44 | 52.17 | 45.37 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 22:56:44 | 52.49 | 45.69 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:45 | 52.82 | 46.02 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 22:56:45 | 53.15 | 46.35 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:56:45 | 53.48 | 46.68 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:56:46 | 53.81 | 47.01 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 22:56:46 | 54.13 | 47.33 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 22:56:46 | 54.46 | 47.66 | 978 | 1.14 | 0.29 | 53.5 |
| 5/1/2015 22:56:47 | 54.79 | 47.99 | 969 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 22:56:47 | 55.12 | 48.32 | 955 | 1.14 | 0.29 | 52.2 |
| 5/1/2015 22:56:48 | 55.45 | 48.65 | 955 | 1.14 | 0.29 | 52.2 |
| 5/1/2015 22:56:48 | 55.77 | 48.97 | 937 | 1.14 | 0.29 | 51.2 |
| 5/1/2015 22:56:48 | 56.10 | 49.30 | 922 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 22:56:49 | 56.43 | 49.63 | 890 | 1.14 | 0.29 | 48.6 |
| 5/1/2015 22:56:50 | 56.76 | 49.96 | 858 | 1.14 | 0.29 | 46.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:56:50 | 57.09 | 50.29 | 826 | 1.14 | 0.29 | 45.2 |
| 5/1/2015 | 22:57:23 | 57.41 | 50.61 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 22:57:28 | 57.74 | 50.94 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 | 22:57:33 | 58.07 | 51.27 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 22:57:37 | 58.40 | 51.60 | 96 | 1.14 | 0.29 | 5.3 |
| 5/1/2015 | 22:57:41 | 58.73 | 51.93 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 22:57:46 | 59.06 | 52.26 | 70 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 22:57:51 | 59.38 | 52.58 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 22:57:58 | 59.71 | 52.91 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 22:58:06 | 60.04 | 53.24 | 42 | 1.14 | 0.29 | 2.3 |
| 5/1/2015 | 22:58:15 | 60.37 | 53.57 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 22:58:16 | 60.46 | 53.66 | 64 | 1.14 | 0.29 | 3.5 |

## M48 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:55:22

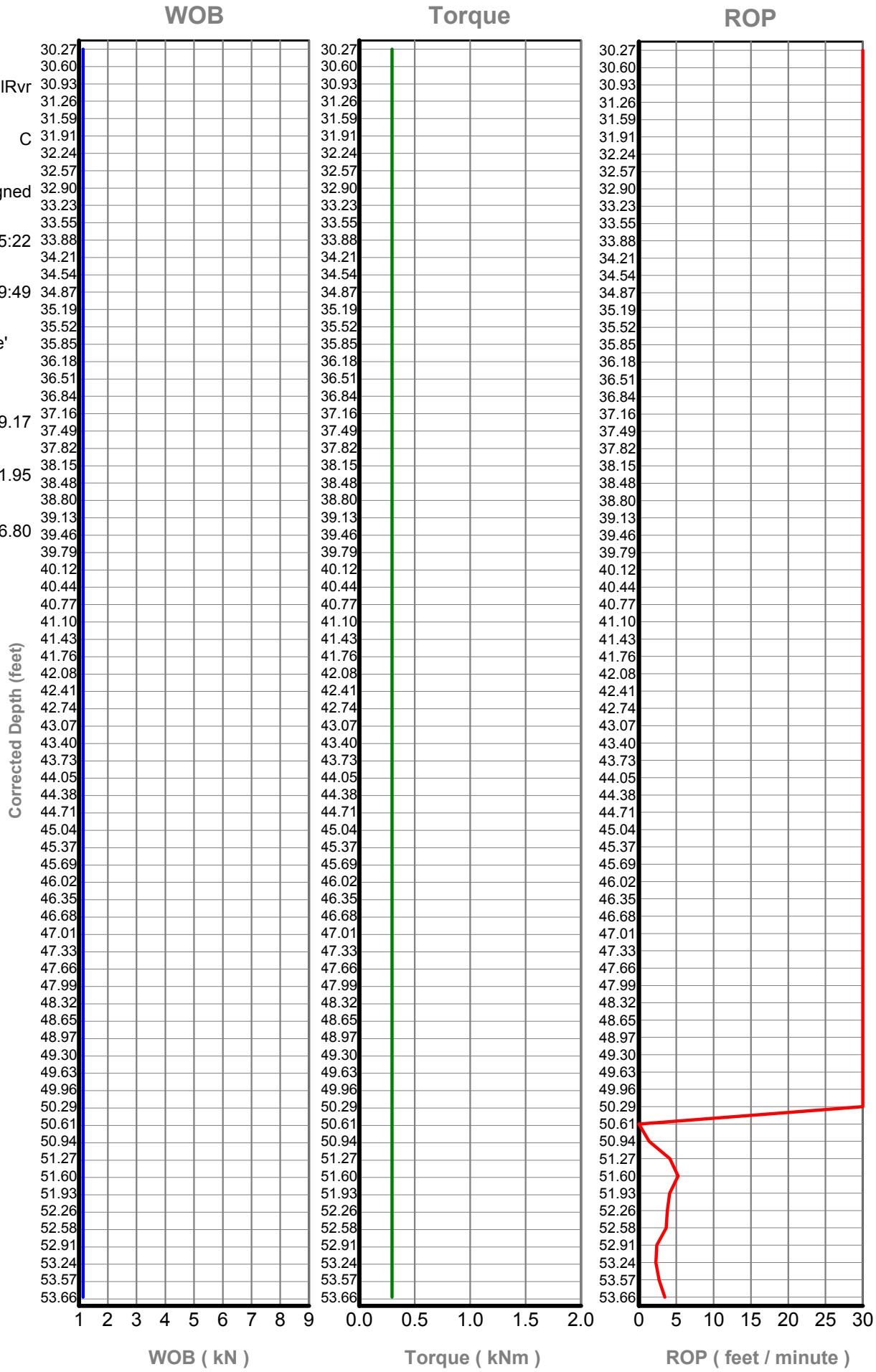
**End Date:**
5/1/2015 22:59:49

**Operator Note:**
'6.8 6.7 c Auto Complete'

**Northing:**
359,309.17

**Easting:**
240,711.95

**Tide (feet):**
6.80



## Hole: M49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:56:49 | 32.81 | 30.01 | 1,277 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 4:56:49 | 33.14 | 30.34 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 4:56:49 | 33.46 | 30.66 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 4:56:49 | 33.79 | 30.99 | 1,280 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 4:56:50 | 34.12 | 31.32 | 1,280 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 4:56:50 | 34.45 | 31.65 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 4:56:50 | 34.78 | 31.98 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 4:56:50 | 35.11 | 32.31 | 1,269 | 0.54 | 0.17 | 69.4 |
| 5/2/2015 4:56:51 | 35.43 | 32.63 | 1,269 | 0.54 | 0.17 | 69.4 |
| 5/2/2015 4:56:51 | 35.76 | 32.96 | 1,277 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 4:56:51 | 36.09 | 33.29 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 4:56:52 | 36.42 | 33.62 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 4:56:52 | 36.75 | 33.95 | 1,274 | 0.54 | 0.17 | 69.7 |
| 5/2/2015 4:56:52 | 37.07 | 34.27 | 1,274 | 0.54 | 0.17 | 69.7 |
| 5/2/2015 4:56:52 | 37.40 | 34.60 | 1,262 | 0.54 | 0.17 | 69.0 |
| 5/2/2015 4:56:53 | 37.73 | 34.93 | 1,262 | 0.54 | 0.17 | 69.0 |
| 5/2/2015 4:56:53 | 38.06 | 35.26 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 4:56:53 | 38.39 | 35.59 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 4:56:53 | 38.71 | 35.91 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 4:56:54 | 39.04 | 36.24 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 4:56:54 | 39.37 | 36.57 | 1,274 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 4:56:54 | 39.70 | 36.90 | 1,274 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 4:56:55 | 40.03 | 37.23 | 1,281 | 0.54 | 0.17 | 70.1 |
| 5/2/2015 4:56:55 | 40.35 | 37.55 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 4:56:56 | 40.68 | 37.88 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 4:56:56 | 41.01 | 38.21 | 1,285 | 0.54 | 0.17 | 70.3 |
| 5/2/2015 4:56:56 | 41.34 | 38.54 | 1,285 | 0.54 | 0.17 | 70.3 |
| 5/2/2015 4:56:56 | 41.67 | 38.87 | 1,267 | 0.54 | 0.17 | 69.3 |
| 5/2/2015 4:56:57 | 41.99 | 39.19 | 1,267 | 0.54 | 0.17 | 69.3 |
| 5/2/2015 4:56:57 | 42.32 | 39.52 | 1,268 | 0.54 | 0.17 | 69.3 |
| 5/2/2015 4:56:58 | 42.65 | 39.85 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 4:56:58 | 42.98 | 40.18 | 752 | 0.54 | 0.17 | 41.1 |
| 5/2/2015 4:56:59 | 43.31 | 40.51 | 640 | 0.54 | 0.17 | 35.0 |
| 5/2/2015 4:56:59 | 43.64 | 40.84 | 640 | 0.54 | 0.17 | 35.0 |
| 5/2/2015 4:57:00 | 43.96 | 41.16 | 522 | 0.54 | 0.17 | 28.5 |
| 5/2/2015 4:57:00 | 44.29 | 41.49 | 500 | 0.54 | 0.17 | 27.3 |
| 5/2/2015 4:57:01 | 44.62 | 41.82 | 633 | 0.54 | 0.17 | 34.6 |
| 5/2/2015 4:57:02 | 44.95 | 42.15 | 660 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 4:57:02 | 45.28 | 42.48 | 654 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 4:57:03 | 45.60 | 42.80 | 654 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 4:57:03 | 45.93 | 43.13 | 654 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 4:57:04 | 46.26 | 43.46 | 654 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 4:57:04 | 46.59 | 43.79 | 654 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 4:57:05 | 46.92 | 44.12 | 651 | 0.54 | 0.17 | 35.6 |
| 5/2/2015 4:57:05 | 47.24 | 44.44 | 651 | 0.54 | 0.17 | 35.6 |
| 5/2/2015 4:57:06 | 47.57 | 44.77 | 651 | 0.54 | 0.17 | 35.6 |
| 5/2/2015 4:57:07 | 47.90 | 45.10 | 649 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 4:57:07 | 48.23 | 45.43 | 649 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 4:57:08 | 48.56 | 45.76 | 645 | 0.54 | 0.17 | 35.3 |
| 5/2/2015 4:57:08 | 48.88 | 46.08 | 642 | 0.54 | 0.17 | 35.1 |
| 5/2/2015 4:57:09 | 49.21 | 46.41 | 643 | 0.54 | 0.17 | 35.2 |
| 5/2/2015 4:57:09 | 49.54 | 46.74 | 643 | 0.54 | 0.17 | 35.1 |
| 5/2/2015 4:57:10 | 49.87 | 47.07 | 631 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:57:11 | 50.20 | 47.40 | 629 | 0.54 | 0.17 | 34.4 |
| 5/2/2015 4:57:11 | 50.53 | 47.73 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:57:12 | 50.85 | 48.05 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:57:12 | 51.18 | 48.38 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 4:57:13 | 51.51 | 48.71 | 628 | 0.54 | 0.17 | 34.3 |
| 5/2/2015 4:57:13 | 51.84 | 49.04 | 634 | 0.54 | 0.17 | 34.7 |
| 5/2/2015 4:57:14 | 52.17 | 49.37 | 630 | 0.54 | 0.17 | 34.5 |
| 5/2/2015 4:57:14 | 52.49 | 49.69 | 631 | 0.54 | 0.17 | 34.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:57:15 | 52.82 | 50.02 | 621 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 | 4:57:16 | 53.15 | 50.35 | 607 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 | 4:57:33 | 53.48 | 50.68 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 | 4:57:34 | 53.81 | 51.01 | 135 | 0.54 | 0.17 | 7.4 |
| 5/2/2015 | 4:57:36 | 54.13 | 51.33 | 210 | 0.54 | 0.17 | 11.5 |
| 5/2/2015 | 4:57:48 | 54.46 | 51.66 | 66 | 0.54 | 0.17 | 3.6 |
| 5/2/2015 | 4:57:49 | 54.79 | 51.99 | 152 | 0.54 | 0.17 | 8.3 |
| 5/2/2015 | 4:57:52 | 55.12 | 52.32 | 119 | 0.54 | 0.17 | 6.5 |
| 5/2/2015 | 4:57:56 | 55.45 | 52.65 | 122 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 | 4:57:58 | 55.77 | 52.97 | 145 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 | 4:58:00 | 56.10 | 53.30 | 172 | 0.54 | 0.17 | 9.4 |
| 5/2/2015 | 4:58:01 | 56.43 | 53.63 | 212 | 0.54 | 0.17 | 11.6 |
| 5/2/2015 | 4:58:11 | 56.76 | 53.96 | 43 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 4:58:17 | 57.09 | 54.29 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 | 4:58:23 | 57.41 | 54.61 | 61 | 0.54 | 0.17 | 3.3 |
| 5/2/2015 | 5:00:18 | 57.74 | 54.94 | 76 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 | 5:00:20 | 57.93 | 55.13 | 84 | 0.54 | 0.17 | 4.6 |

## M49 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:47:54

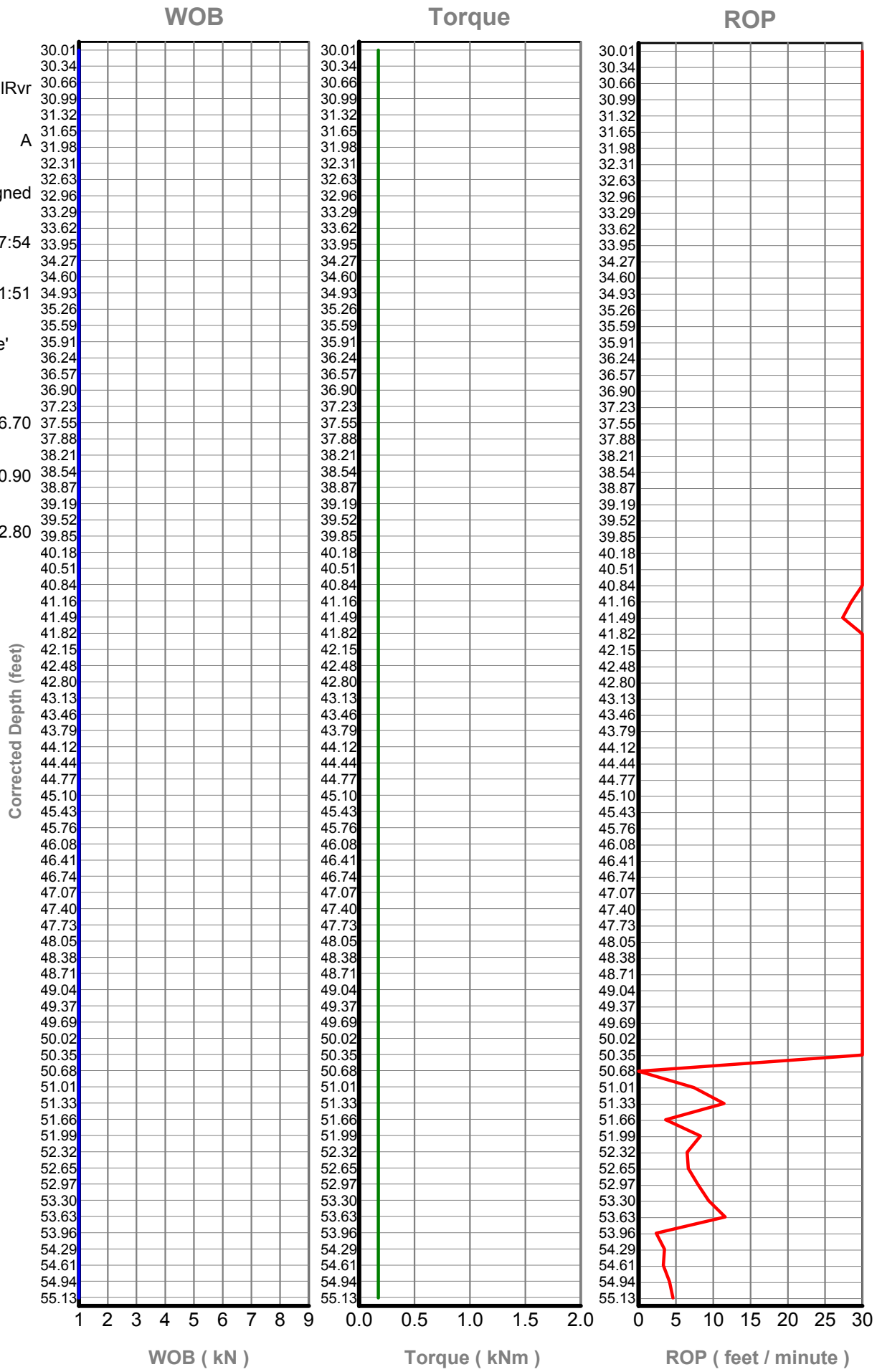
**End Date:**
5/2/2015 5:01:51

**Operator Note:**
'2.8 2.9 a Auto Complete'

**Northing:**
358,796.70

**Easting:**
240,050.90

**Tide (feet):**
2.80



## Hole: M5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:28:01 | 34.12 | 30.12 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:28:02 | 34.45 | 30.45 | 1,187 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:28:02 | 34.78 | 30.78 | 1,187 | 0.31 | 0.38 | 64.9 |
| 5/2/2015 3:28:02 | 35.11 | 31.11 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 3:28:03 | 35.43 | 31.43 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 3:28:03 | 35.76 | 31.76 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/2/2015 3:28:03 | 36.09 | 32.09 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/2/2015 3:28:03 | 36.42 | 32.42 | 1,175 | 0.31 | 0.37 | 64.3 |
| 5/2/2015 3:28:04 | 36.75 | 32.75 | 1,175 | 0.31 | 0.37 | 64.3 |
| 5/2/2015 3:28:04 | 37.07 | 33.07 | 1,196 | 0.31 | 0.36 | 65.4 |
| 5/2/2015 3:28:04 | 37.40 | 33.40 | 1,196 | 0.31 | 0.36 | 65.4 |
| 5/2/2015 3:28:05 | 37.73 | 33.73 | 1,196 | 0.31 | 0.36 | 65.4 |
| 5/2/2015 3:28:05 | 38.06 | 34.06 | 1,193 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 3:28:05 | 38.39 | 34.39 | 1,193 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 3:28:05 | 38.71 | 34.71 | 1,193 | 0.31 | 0.36 | 65.2 |
| 5/2/2015 3:28:06 | 39.04 | 35.04 | 1,193 | 0.31 | 0.36 | 65.2 |
| 5/2/2015 3:28:06 | 39.37 | 35.37 | 1,195 | 0.31 | 0.36 | 65.4 |
| 5/2/2015 3:28:07 | 39.70 | 35.70 | 1,195 | 0.31 | 0.37 | 65.4 |
| 5/2/2015 3:28:07 | 40.03 | 36.03 | 1,195 | 0.31 | 0.37 | 65.4 |
| 5/2/2015 3:28:07 | 40.35 | 36.35 | 1,201 | 0.31 | 0.44 | 65.7 |
| 5/2/2015 3:28:07 | 40.68 | 36.68 | 1,201 | 0.31 | 0.44 | 65.7 |
| 5/2/2015 3:28:08 | 41.01 | 37.01 | 1,201 | 0.31 | 0.37 | 65.7 |
| 5/2/2015 3:28:08 | 41.34 | 37.34 | 1,201 | 0.31 | 0.37 | 65.7 |
| 5/2/2015 3:28:08 | 41.67 | 37.67 | 1,196 | 0.31 | 0.37 | 65.4 |
| 5/2/2015 3:28:09 | 41.99 | 37.99 | 1,204 | 0.31 | 0.38 | 65.8 |
| 5/2/2015 3:28:09 | 42.32 | 38.32 | 1,204 | 0.31 | 0.38 | 65.8 |
| 5/2/2015 3:28:09 | 42.65 | 38.65 | 1,204 | 0.32 | 0.38 | 65.8 |
| 5/2/2015 3:28:10 | 42.98 | 38.98 | 1,204 | 0.32 | 0.38 | 65.8 |
| 5/2/2015 3:28:10 | 43.31 | 39.31 | 1,200 | 0.32 | 0.37 | 65.6 |
| 5/2/2015 3:28:10 | 43.64 | 39.64 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/2/2015 3:28:11 | 43.96 | 39.96 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/2/2015 3:28:11 | 44.29 | 40.29 | 1,202 | 0.31 | 0.38 | 65.8 |
| 5/2/2015 3:28:11 | 44.62 | 40.62 | 1,202 | 0.31 | 0.38 | 65.8 |
| 5/2/2015 3:28:11 | 44.95 | 40.95 | 1,188 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 3:28:12 | 45.28 | 41.28 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 3:28:12 | 45.60 | 41.60 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 3:28:12 | 45.93 | 41.93 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:28:13 | 46.26 | 42.26 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 3:28:13 | 46.59 | 42.59 | 1,144 | 0.31 | 0.37 | 62.5 |
| 5/2/2015 3:28:13 | 46.92 | 42.92 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 3:28:14 | 47.24 | 43.24 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 3:28:14 | 47.57 | 43.57 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/2/2015 3:28:14 | 47.90 | 43.90 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/2/2015 3:28:14 | 48.23 | 44.23 | 1,113 | 0.31 | 0.38 | 60.9 |
| 5/2/2015 3:28:15 | 48.56 | 44.56 | 1,087 | 0.31 | 0.41 | 59.4 |
| 5/2/2015 3:28:15 | 48.88 | 44.88 | 1,087 | 0.31 | 0.39 | 59.4 |
| 5/2/2015 3:28:16 | 49.21 | 45.21 | 1,087 | 0.31 | 0.39 | 59.4 |
| 5/2/2015 3:28:16 | 49.54 | 45.54 | 1,053 | 0.31 | 0.39 | 57.6 |
| 5/2/2015 3:28:16 | 49.87 | 45.87 | 1,004 | 0.31 | 0.39 | 54.9 |
| 5/2/2015 3:28:17 | 50.20 | 46.20 | 1,004 | 0.31 | 0.39 | 54.9 |
| 5/2/2015 3:28:17 | 50.53 | 46.53 | 981 | 0.31 | 0.40 | 53.6 |
| 5/2/2015 3:28:17 | 50.85 | 46.85 | 945 | 0.30 | 0.36 | 51.7 |
| 5/2/2015 3:28:18 | 51.18 | 47.18 | 937 | 0.31 | 0.39 | 51.2 |
| 5/2/2015 3:28:19 | 51.51 | 47.51 | 937 | 0.31 | 0.39 | 51.2 |
| 5/2/2015 3:28:19 | 51.84 | 47.84 | 943 | 0.30 | 0.41 | 51.5 |
| 5/2/2015 3:28:23 | 52.17 | 48.17 | 0 | 4.21 | 0.44 | 0.0 |
| 5/2/2015 3:28:30 | 52.49 | 48.49 | 13 | 3.17 | 0.47 | 0.7 |
| 5/2/2015 3:28:36 | 52.82 | 48.82 | 53 | 3.28 | 0.46 | 2.9 |
| 5/2/2015 3:28:41 | 53.15 | 49.15 | 83 | 3.28 | 0.46 | 4.5 |
| 5/2/2015 3:28:45 | 53.48 | 49.48 | 77 | 3.35 | 0.46 | 4.2 |
| 5/2/2015 3:28:49 | 53.81 | 49.81 | 105 | 3.29 | 0.47 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 3:28:51 | 54.13 | 50.13 | 138 | 3.62 | 0.45 | 7.5 |
| 5/2/2015 | 3:29:01 | 54.46 | 50.46 | 25 | 4.68 | 0.46 | 1.4 |
| 5/2/2015 | 3:29:14 | 54.79 | 50.79 | 52 | 2.95 | 0.47 | 2.8 |
| 5/2/2015 | 3:29:22 | 55.12 | 51.12 | 42 | 3.12 | 0.46 | 2.3 |
| 5/2/2015 | 3:29:30 | 55.45 | 51.45 | 39 | 3.12 | 0.47 | 2.1 |
| 5/2/2015 | 3:29:37 | 55.73 | 51.73 | 44 | 2.95 | 0.47 | 2.4 |

## M5 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:26:33

**End Date:**
5/2/2015 3:31:11

**Operator Note:**
'4 4.2b Auto Complete'

**Northing:**
359,214.30

**Easting:**
240,146.00

**Tide (feet):**
4.00



## Hole: M50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:57:09 | 32.81 | 30.21 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 4:57:09 | 33.14 | 30.54 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 4:57:09 | 33.46 | 30.86 | 1,187 | 0.31 | 0.38 | 64.9 |
| 5/2/2015 4:57:10 | 33.79 | 31.19 | 1,187 | 0.31 | 0.38 | 64.9 |
| 5/2/2015 4:57:10 | 34.12 | 31.52 | 1,183 | 0.30 | 0.37 | 64.7 |
| 5/2/2015 4:57:11 | 34.45 | 31.85 | 1,183 | 0.30 | 0.37 | 64.7 |
| 5/2/2015 4:57:11 | 34.78 | 32.18 | 1,196 | 0.31 | 0.38 | 65.4 |
| 5/2/2015 4:57:11 | 35.11 | 32.51 | 1,176 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 4:57:12 | 35.43 | 32.83 | 1,176 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 4:57:12 | 35.76 | 33.16 | 1,186 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 4:57:12 | 36.09 | 33.49 | 1,186 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 4:57:12 | 36.42 | 33.82 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 4:57:13 | 36.75 | 34.15 | 1,177 | 0.31 | 0.36 | 64.4 |
| 5/2/2015 4:57:13 | 37.07 | 34.47 | 1,177 | 0.31 | 0.36 | 64.4 |
| 5/2/2015 4:57:13 | 37.40 | 34.80 | 1,164 | 0.30 | 0.37 | 63.7 |
| 5/2/2015 4:57:14 | 37.73 | 35.13 | 1,164 | 0.30 | 0.37 | 63.7 |
| 5/2/2015 4:57:14 | 38.06 | 35.46 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 4:57:14 | 38.39 | 35.79 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 4:57:14 | 38.71 | 36.11 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/2/2015 4:57:15 | 39.04 | 36.44 | 1,180 | 0.31 | 0.38 | 64.6 |
| 5/2/2015 4:57:15 | 39.37 | 36.77 | 1,180 | 0.31 | 0.38 | 64.6 |
| 5/2/2015 4:57:15 | 39.70 | 37.10 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/2/2015 4:57:16 | 40.03 | 37.43 | 1,170 | 0.31 | 0.37 | 64.0 |
| 5/2/2015 4:57:16 | 40.35 | 37.75 | 1,197 | 0.31 | 0.37 | 65.4 |
| 5/2/2015 4:57:16 | 40.68 | 38.08 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:57:17 | 41.01 | 38.41 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 4:57:17 | 41.34 | 38.74 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 4:57:17 | 41.67 | 39.07 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/2/2015 4:57:17 | 41.99 | 39.39 | 1,170 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 4:57:18 | 42.32 | 39.72 | 1,170 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 4:57:18 | 42.65 | 40.05 | 1,194 | 0.31 | 0.37 | 65.3 |
| 5/2/2015 4:57:18 | 42.98 | 40.38 | 1,157 | 0.31 | 0.38 | 63.3 |
| 5/2/2015 4:57:19 | 43.31 | 40.71 | 1,157 | 0.31 | 0.38 | 63.3 |
| 5/2/2015 4:57:19 | 43.64 | 41.04 | 1,147 | 0.31 | 0.44 | 62.7 |
| 5/2/2015 4:57:19 | 43.96 | 41.36 | 1,147 | 0.31 | 0.44 | 62.7 |
| 5/2/2015 4:57:20 | 44.29 | 41.69 | 1,147 | 0.31 | 0.37 | 62.7 |
| 5/2/2015 4:57:20 | 44.62 | 42.02 | 1,155 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:57:21 | 44.95 | 42.35 | 1,155 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:57:21 | 45.28 | 42.68 | 1,155 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:57:21 | 45.60 | 43.00 | 1,155 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 4:57:21 | 45.93 | 43.33 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 4:57:22 | 46.26 | 43.66 | 1,168 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 4:57:22 | 46.59 | 43.99 | 1,172 | 0.31 | 0.38 | 64.1 |
| 5/2/2015 4:57:22 | 46.92 | 44.32 | 1,198 | 0.31 | 0.38 | 65.5 |
| 5/2/2015 4:57:23 | 47.24 | 44.64 | 1,198 | 0.31 | 0.38 | 65.5 |
| 5/2/2015 4:57:23 | 47.57 | 44.97 | 1,176 | 0.31 | 0.37 | 64.3 |
| 5/2/2015 4:57:23 | 47.90 | 45.30 | 1,176 | 0.31 | 0.37 | 64.3 |
| 5/2/2015 4:57:23 | 48.23 | 45.63 | 1,176 | 0.30 | 0.37 | 64.3 |
| 5/2/2015 4:57:24 | 48.56 | 45.96 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 4:57:24 | 48.88 | 46.28 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 4:57:24 | 49.21 | 46.61 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:57:25 | 49.54 | 46.94 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 4:57:25 | 49.87 | 47.27 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 4:57:25 | 50.20 | 47.60 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 4:57:25 | 50.53 | 47.93 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/2/2015 4:57:26 | 50.85 | 48.25 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 4:57:26 | 51.18 | 48.58 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 4:57:26 | 51.51 | 48.91 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 4:57:27 | 51.84 | 49.24 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/2/2015 4:57:27 | 52.17 | 49.57 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/2/2015 4:57:27 | 52.49 | 49.89 | 1,141 | 0.30 | 0.38 | 62.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:57:28 | 52.82 | 50.22 | 1,141 | 0.30 | 0.38 | 62.4 |
| 5/2/2015 | 4:57:28 | 53.15 | 50.55 | 1,117 | 0.31 | 0.38 | 61.1 |
| 5/2/2015 | 4:57:28 | 53.48 | 50.88 | 1,123 | 0.30 | 0.39 | 61.4 |
| 5/2/2015 | 4:57:29 | 53.81 | 51.21 | 1,066 | 0.27 | 0.47 | 58.3 |
| 5/2/2015 | 4:57:40 | 54.13 | 51.53 | 75 | 5.42 | 0.46 | 4.1 |
| 5/2/2015 | 4:57:44 | 54.46 | 51.86 | 79 | 5.18 | 0.46 | 4.3 |
| 5/2/2015 | 4:57:46 | 54.79 | 52.19 | 179 | 3.73 | 0.46 | 9.8 |
| 5/2/2015 | 4:57:48 | 55.12 | 52.52 | 188 | 4.16 | 0.44 | 10.3 |
| 5/2/2015 | 4:57:52 | 55.45 | 52.85 | 83 | 3.39 | 0.44 | 4.5 |
| 5/2/2015 | 4:57:53 | 55.77 | 53.17 | 149 | 2.88 | 0.44 | 8.2 |
| 5/2/2015 | 4:57:54 | 56.10 | 53.50 | 312 | 2.89 | 0.44 | 17.1 |
| 5/2/2015 | 4:57:54 | 56.43 | 53.83 | 366 | 3.07 | 0.44 | 20.0 |
| 5/2/2015 | 4:57:55 | 56.76 | 54.16 | 365 | 2.90 | 0.44 | 19.9 |
| 5/2/2015 | 4:57:56 | 57.09 | 54.49 | 399 | 3.01 | 0.46 | 21.8 |
| 5/2/2015 | 4:58:02 | 57.41 | 54.81 | 96 | 3.42 | 0.46 | 5.2 |
| 5/2/2015 | 4:58:06 | 57.74 | 55.14 | 84 | 3.51 | 0.46 | 4.6 |
| 5/2/2015 | 4:58:11 | 57.88 | 55.28 | 9 | 3.90 | 0.47 | 0.5 |

## M50 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:55:39

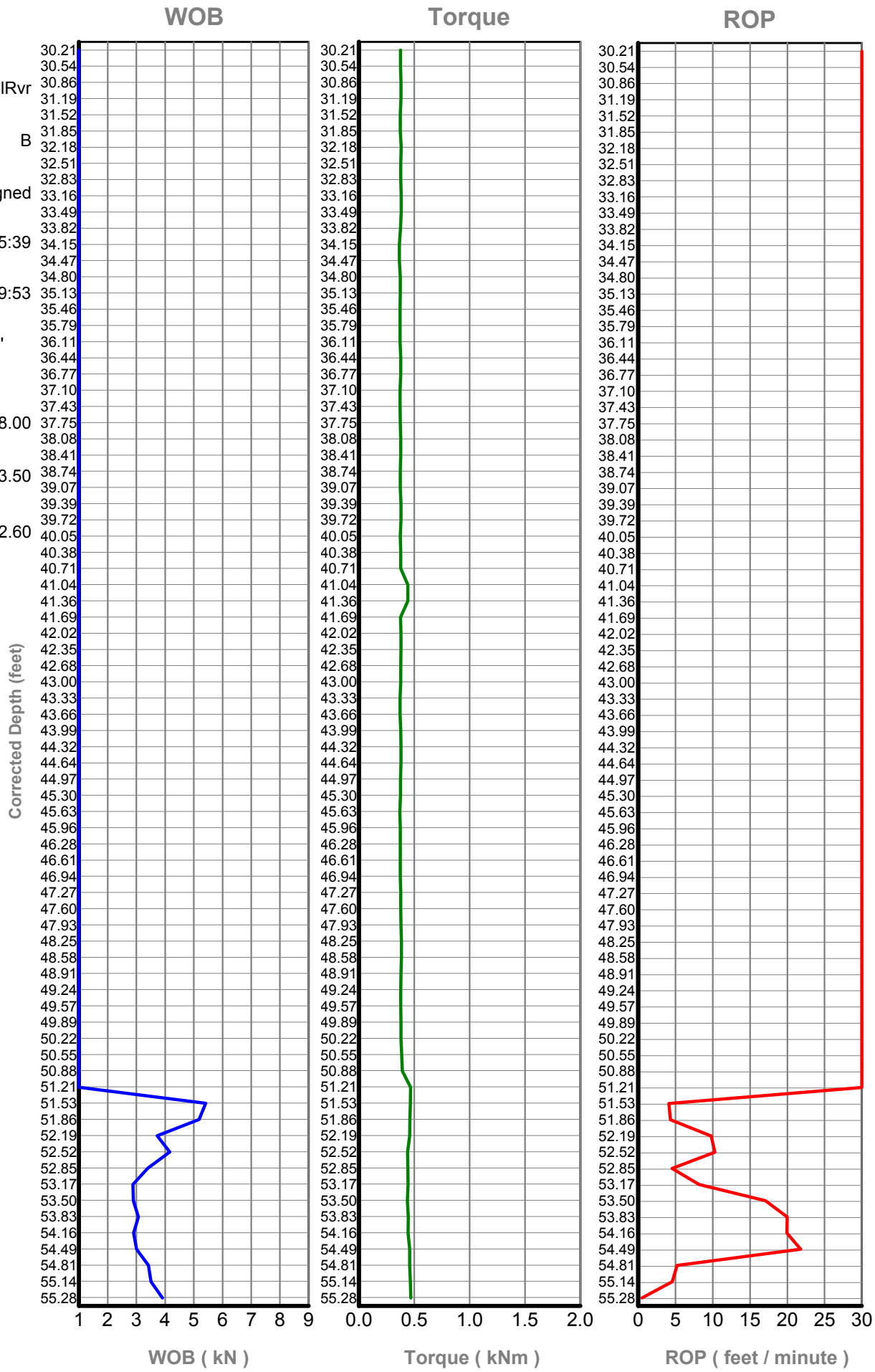
**End Date:**
5/2/2015 4:59:53

**Operator Note:**
'2.6 2.9b Auto Complete'

**Northing:**
358,838.00

**Easting:**
240,113.50

**Tide (feet):**
2.60



## Hole: M51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 4:55:44 | 32.81 | 30.21 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:44 | 33.14 | 30.54 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:45 | 33.46 | 30.86 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:45 | 33.79 | 31.19 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:55:46 | 34.12 | 31.52 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:55:46 | 34.45 | 31.85 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 4:55:46 | 34.78 | 32.18 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 4:55:47 | 35.11 | 32.51 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 4:55:47 | 35.43 | 32.83 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:55:47 | 35.76 | 33.16 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:55:48 | 36.09 | 33.49 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 4:55:48 | 36.42 | 33.82 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 4:55:48 | 36.75 | 34.15 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 4:55:49 | 37.07 | 34.47 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 4:55:49 | 37.40 | 34.80 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 4:55:49 | 37.73 | 35.13 | 1,034 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:50 | 38.06 | 35.46 | 1,034 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:50 | 38.39 | 35.79 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:55:50 | 38.71 | 36.11 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:55:51 | 39.04 | 36.44 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 4:55:51 | 39.37 | 36.77 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:55:51 | 39.70 | 37.10 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:55:52 | 40.03 | 37.43 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:55:52 | 40.35 | 37.75 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 4:55:52 | 40.68 | 38.08 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 4:55:53 | 41.01 | 38.41 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 4:55:53 | 41.34 | 38.74 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:55:53 | 41.67 | 39.07 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:55:53 | 41.99 | 39.39 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 4:55:54 | 42.32 | 39.72 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 4:55:54 | 42.65 | 40.05 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 4:55:54 | 42.98 | 40.38 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 4:55:55 | 43.31 | 40.71 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:55:56 | 43.64 | 41.04 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 4:55:56 | 43.96 | 41.36 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:56 | 44.29 | 41.69 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:57 | 44.62 | 42.02 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:57 | 44.95 | 42.35 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 4:55:57 | 45.28 | 42.68 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:55:58 | 45.60 | 43.00 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:55:58 | 45.93 | 43.33 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 4:55:58 | 46.26 | 43.66 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:59 | 46.59 | 43.99 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:59 | 46.92 | 44.32 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 4:55:59 | 47.24 | 44.64 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:56:00 | 47.57 | 44.97 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:56:00 | 47.90 | 45.30 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 4:56:00 | 48.23 | 45.63 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:56:01 | 48.56 | 45.96 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 4:56:01 | 48.88 | 46.28 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 4:56:01 | 49.21 | 46.61 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 4:56:02 | 49.54 | 46.94 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 4:56:02 | 49.87 | 47.27 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 4:56:02 | 50.20 | 47.60 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 4:56:03 | 50.53 | 47.93 | 998 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:56:03 | 50.85 | 48.25 | 998 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 4:56:03 | 51.18 | 48.58 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 4:56:04 | 51.51 | 48.91 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 4:56:04 | 51.84 | 49.24 | 963 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 4:56:05 | 52.17 | 49.57 | 963 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 4:56:18 | 52.49 | 49.89 | 106 | 1.14 | 0.29 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 4:56:24 | 52.82 | 50.22 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 4:56:32 | 53.15 | 50.55 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 4:56:39 | 53.48 | 50.88 | 41 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 | 4:56:48 | 53.81 | 51.21 | 41 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 | 4:56:50 | 53.89 | 51.29 | 44 | 1.14 | 0.29 | 2.4 |

## M51 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 4:54:42

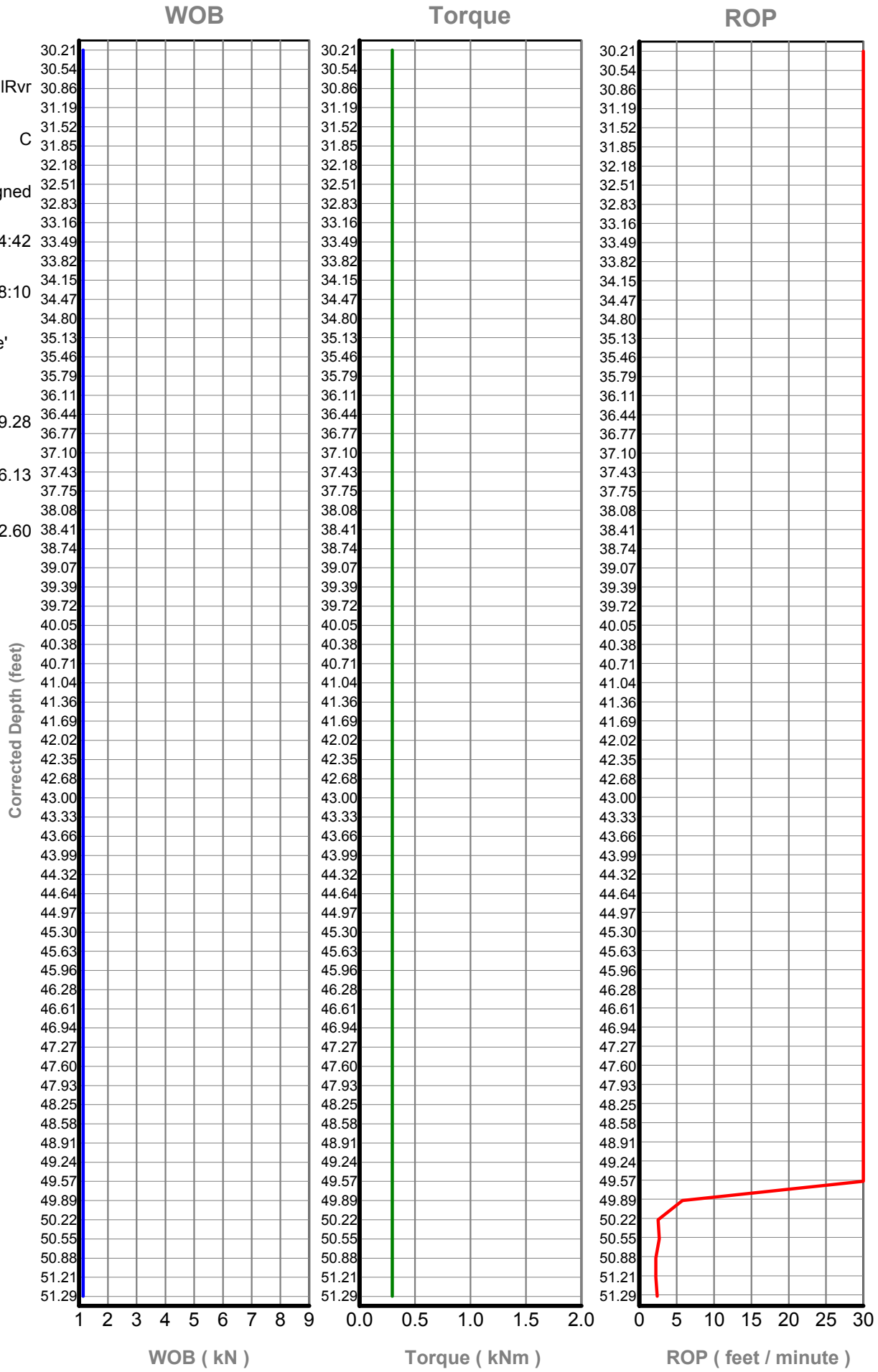
**End Date:**
5/2/2015 4:58:10

**Operator Note:**
'2.6 2.9 c Auto Complete'

**Northing:**
358,879.28

**Easting:**
240,176.13

**Tide (feet):**
2.60



## Hole: M52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:40:21 | 35.43 | 30.23 | 1,214 | 1.81 | 0.25 | 66.4 |
| 5/2/2015 2:40:21 | 35.76 | 30.56 | 1,214 | 1.81 | 0.25 | 66.4 |
| 5/2/2015 2:40:21 | 36.09 | 30.89 | 1,214 | 1.85 | 0.25 | 66.4 |
| 5/2/2015 2:40:22 | 36.42 | 31.22 | 1,214 | 1.85 | 0.25 | 66.4 |
| 5/2/2015 2:40:22 | 36.75 | 31.55 | 1,211 | 1.81 | 0.25 | 66.2 |
| 5/2/2015 2:40:22 | 37.07 | 31.87 | 1,211 | 1.81 | 0.25 | 66.2 |
| 5/2/2015 2:40:22 | 37.40 | 32.20 | 1,208 | 1.82 | 0.25 | 66.1 |
| 5/2/2015 2:40:23 | 37.73 | 32.53 | 1,204 | 1.83 | 0.25 | 65.9 |
| 5/2/2015 2:40:23 | 38.06 | 32.86 | 1,204 | 1.83 | 0.25 | 65.9 |
| 5/2/2015 2:40:23 | 38.39 | 33.19 | 1,214 | 1.81 | 0.25 | 66.4 |
| 5/2/2015 2:40:24 | 38.71 | 33.51 | 1,214 | 1.81 | 0.25 | 66.4 |
| 5/2/2015 2:40:24 | 39.04 | 33.84 | 1,214 | 1.83 | 0.25 | 66.4 |
| 5/2/2015 2:40:24 | 39.37 | 34.17 | 1,214 | 1.83 | 0.25 | 66.4 |
| 5/2/2015 2:40:24 | 39.70 | 34.50 | 1,211 | 1.82 | 0.25 | 66.2 |
| 5/2/2015 2:40:25 | 40.03 | 34.83 | 1,211 | 1.82 | 0.25 | 66.2 |
| 5/2/2015 2:40:25 | 40.35 | 35.15 | 1,214 | 1.82 | 0.25 | 66.4 |
| 5/2/2015 2:40:25 | 40.68 | 35.48 | 1,214 | 1.84 | 0.25 | 66.4 |
| 5/2/2015 2:40:26 | 41.01 | 35.81 | 1,214 | 1.84 | 0.25 | 66.4 |
| 5/2/2015 2:40:26 | 41.34 | 36.14 | 1,208 | 1.80 | 0.25 | 66.1 |
| 5/2/2015 2:40:26 | 41.67 | 36.47 | 1,208 | 1.80 | 0.25 | 66.1 |
| 5/2/2015 2:40:26 | 41.99 | 36.79 | 1,205 | 1.81 | 0.25 | 65.9 |
| 5/2/2015 2:40:27 | 42.32 | 37.12 | 1,205 | 1.81 | 0.25 | 65.9 |
| 5/2/2015 2:40:27 | 42.65 | 37.45 | 1,201 | 1.39 | 0.26 | 65.7 |
| 5/2/2015 2:40:27 | 42.98 | 37.78 | 1,170 | 0.87 | 0.26 | 64.0 |
| 5/2/2015 2:40:29 | 43.31 | 38.11 | 872 | 1.21 | 0.26 | 47.7 |
| 5/2/2015 2:40:29 | 43.64 | 38.44 | 754 | 1.22 | 0.26 | 41.2 |
| 5/2/2015 2:40:30 | 43.96 | 38.76 | 654 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 2:40:30 | 44.29 | 39.09 | 574 | 1.23 | 0.26 | 31.4 |
| 5/2/2015 2:40:31 | 44.62 | 39.42 | 637 | 1.28 | 0.27 | 34.8 |
| 5/2/2015 2:40:31 | 44.95 | 39.75 | 639 | 1.23 | 0.27 | 34.9 |
| 5/2/2015 2:40:32 | 45.28 | 40.08 | 653 | 1.23 | 0.26 | 35.7 |
| 5/2/2015 2:40:32 | 45.60 | 40.40 | 639 | 1.49 | 0.26 | 34.9 |
| 5/2/2015 2:40:33 | 45.93 | 40.73 | 636 | 1.22 | 0.26 | 34.8 |
| 5/2/2015 2:40:33 | 46.26 | 41.06 | 636 | 1.23 | 0.26 | 34.8 |
| 5/2/2015 2:40:34 | 46.59 | 41.39 | 636 | 1.23 | 0.26 | 34.8 |
| 5/2/2015 2:40:34 | 46.92 | 41.72 | 626 | 1.21 | 0.24 | 34.2 |
| 5/2/2015 2:40:35 | 47.24 | 42.04 | 629 | 1.23 | 0.26 | 34.4 |
| 5/2/2015 2:40:36 | 47.57 | 42.37 | 621 | 1.23 | 0.26 | 34.0 |
| 5/2/2015 2:40:36 | 47.90 | 42.70 | 629 | 1.24 | 0.26 | 34.4 |
| 5/2/2015 2:40:37 | 48.23 | 43.03 | 633 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 2:40:38 | 48.56 | 43.36 | 637 | 1.22 | 0.26 | 34.8 |
| 5/2/2015 2:40:38 | 48.88 | 43.68 | 629 | 1.21 | 0.26 | 34.4 |
| 5/2/2015 2:40:39 | 49.21 | 44.01 | 629 | 1.22 | 0.26 | 34.4 |
| 5/2/2015 2:40:39 | 49.54 | 44.34 | 644 | 1.21 | 0.26 | 35.2 |
| 5/2/2015 2:40:40 | 49.87 | 44.67 | 623 | 1.22 | 0.26 | 34.1 |
| 5/2/2015 2:40:40 | 50.20 | 45.00 | 623 | 1.21 | 0.26 | 34.1 |
| 5/2/2015 2:40:41 | 50.53 | 45.33 | 620 | 1.11 | 0.20 | 33.9 |
| 5/2/2015 2:40:41 | 50.85 | 45.65 | 634 | 1.09 | 0.20 | 34.7 |
| 5/2/2015 2:40:42 | 51.18 | 45.98 | 636 | 1.11 | 0.20 | 34.8 |
| 5/2/2015 2:40:42 | 51.51 | 46.31 | 646 | 1.14 | 0.20 | 35.3 |
| 5/2/2015 2:40:43 | 51.84 | 46.64 | 646 | 1.09 | 0.20 | 35.3 |
| 5/2/2015 2:40:43 | 52.17 | 46.97 | 658 | 1.11 | 0.20 | 36.0 |
| 5/2/2015 2:40:44 | 52.49 | 47.29 | 650 | 1.11 | 0.20 | 35.5 |
| 5/2/2015 2:40:45 | 52.82 | 47.62 | 643 | 1.10 | 0.20 | 35.2 |
| 5/2/2015 2:40:45 | 53.15 | 47.95 | 643 | 1.17 | 0.20 | 35.2 |
| 5/2/2015 2:40:46 | 53.48 | 48.28 | 640 | 1.12 | 0.20 | 35.0 |
| 5/2/2015 2:40:46 | 53.81 | 48.61 | 634 | 1.17 | 0.20 | 34.7 |
| 5/2/2015 2:41:07 | 54.13 | 48.93 | 47 | 1.75 | 1.37 | 2.6 |
| 5/2/2015 2:41:08 | 54.46 | 49.26 | 223 | 1.07 | 1.95 | 12.2 |
| 5/2/2015 2:41:14 | 54.79 | 49.59 | 61 | 1.17 | 1.41 | 3.3 |
| 5/2/2015 2:41:16 | 55.12 | 49.92 | 162 | 1.09 | 1.39 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:41:17 | 55.45 | 50.25 | 264 | 1.08 | 1.27 | 14.4 |
| 5/2/2015 | 2:41:18 | 55.77 | 50.57 | 289 | 1.02 | 1.62 | 15.8 |
| 5/2/2015 | 2:41:19 | 56.10 | 50.90 | 294 | 1.07 | 1.12 | 16.1 |
| 5/2/2015 | 2:41:20 | 56.43 | 51.23 | 339 | 1.09 | 0.97 | 18.5 |
| 5/2/2015 | 2:41:21 | 56.76 | 51.56 | 432 | 1.15 | 1.12 | 23.6 |
| 5/2/2015 | 2:41:22 | 57.09 | 51.89 | 470 | 0.96 | 1.36 | 25.7 |
| 5/2/2015 | 2:41:23 | 57.41 | 52.21 | 448 | 1.14 | 1.06 | 24.5 |
| 5/2/2015 | 2:41:24 | 57.74 | 52.54 | 288 | 1.12 | 1.07 | 15.7 |
| 5/2/2015 | 2:41:25 | 58.07 | 52.87 | 322 | 1.09 | 1.17 | 17.6 |
| 5/2/2015 | 2:41:26 | 58.40 | 53.20 | 296 | 1.11 | 1.08 | 16.2 |
| 5/2/2015 | 2:41:27 | 58.73 | 53.53 | 353 | 1.14 | 1.15 | 19.3 |
| 5/2/2015 | 2:41:28 | 59.06 | 53.86 | 380 | 1.09 | 1.12 | 20.8 |
| 5/2/2015 | 2:41:29 | 59.38 | 54.18 | 364 | 1.09 | 1.29 | 19.9 |
| 5/2/2015 | 2:41:30 | 59.71 | 54.51 | 346 | 0.99 | 1.50 | 18.9 |
| 5/2/2015 | 2:41:31 | 60.04 | 54.84 | 370 | 1.11 | 0.99 | 20.3 |
| 5/2/2015 | 2:41:32 | 60.37 | 55.17 | 405 | 1.14 | 1.01 | 22.1 |
| 5/2/2015 | 2:41:32 | 60.47 | 55.27 | 405 | 1.14 | 1.01 | 22.1 |

## M52 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:30:14

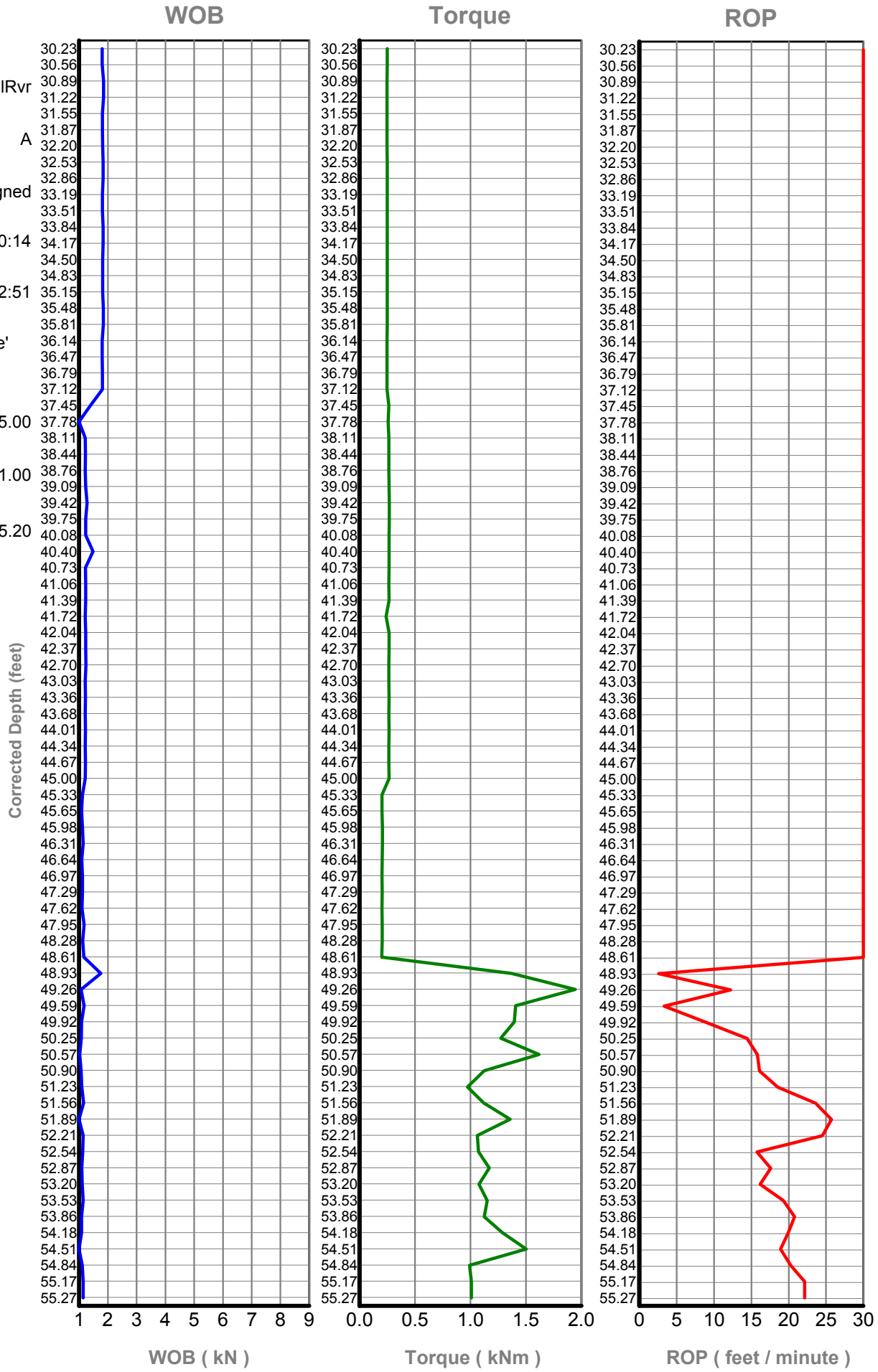
**End Date:**
5/2/2015 2:42:51

**Operator Note:**
'5.2 5.2 a Auto Complete'

**Northing:**
358,915.00

**Easting:**
240,241.00

**Tide (feet):**
5.20



## Hole: M53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:40:04 | 35.11 | 30.01 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:40:04 | 35.43 | 30.33 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/2/2015 2:40:04 | 35.76 | 30.66 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/2/2015 2:40:05 | 36.09 | 30.99 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/2/2015 2:40:05 | 36.42 | 31.32 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 2:40:05 | 36.75 | 31.65 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/2/2015 2:40:05 | 37.07 | 31.97 | 1,117 | 0.33 | 0.38 | 61.1 |
| 5/2/2015 2:40:06 | 37.40 | 32.30 | 1,117 | 0.33 | 0.37 | 61.1 |
| 5/2/2015 2:40:06 | 37.73 | 32.63 | 1,117 | 0.33 | 0.37 | 61.1 |
| 5/2/2015 2:40:06 | 38.06 | 32.96 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 2:40:07 | 38.39 | 33.29 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/2/2015 2:40:07 | 38.71 | 33.61 | 1,137 | 0.33 | 0.37 | 62.2 |
| 5/2/2015 2:40:07 | 39.04 | 33.94 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/2/2015 2:40:08 | 39.37 | 34.27 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/2/2015 2:40:08 | 39.70 | 34.60 | 1,143 | 0.32 | 0.37 | 62.5 |
| 5/2/2015 2:40:08 | 40.03 | 34.93 | 1,143 | 0.32 | 0.37 | 62.5 |
| 5/2/2015 2:40:08 | 40.35 | 35.25 | 1,167 | 0.32 | 0.37 | 63.8 |
| 5/2/2015 2:40:09 | 40.68 | 35.58 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:40:09 | 41.01 | 35.91 | 1,162 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:40:09 | 41.34 | 36.24 | 1,153 | 0.32 | 0.38 | 63.1 |
| 5/2/2015 2:40:10 | 41.67 | 36.57 | 1,153 | 0.32 | 0.38 | 63.1 |
| 5/2/2015 2:40:10 | 41.99 | 36.89 | 1,161 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:40:10 | 42.32 | 37.22 | 1,144 | 0.32 | 0.37 | 62.5 |
| 5/2/2015 2:40:11 | 42.65 | 37.55 | 1,144 | 0.32 | 0.37 | 62.5 |
| 5/2/2015 2:40:11 | 42.98 | 37.88 | 1,161 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:40:11 | 43.31 | 38.21 | 1,161 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:40:11 | 43.64 | 38.54 | 1,155 | 0.32 | 0.38 | 63.2 |
| 5/2/2015 2:40:12 | 43.96 | 38.86 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 2:40:12 | 44.29 | 39.19 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 2:40:12 | 44.62 | 39.52 | 1,154 | 0.32 | 0.37 | 63.1 |
| 5/2/2015 2:40:13 | 44.95 | 39.85 | 1,154 | 0.32 | 0.37 | 63.1 |
| 5/2/2015 2:40:13 | 45.28 | 40.18 | 1,173 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 2:40:14 | 45.60 | 40.50 | 1,173 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 2:40:13 | 45.93 | 40.83 | 1,153 | 0.32 | 0.37 | 63.1 |
| 5/2/2015 2:40:14 | 46.26 | 41.16 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:15 | 46.59 | 41.49 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:15 | 46.92 | 41.82 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:15 | 47.24 | 42.14 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:15 | 47.57 | 42.47 | 1,162 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 2:40:16 | 47.90 | 42.80 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:16 | 48.23 | 43.13 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:16 | 48.56 | 43.46 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:40:17 | 48.88 | 43.78 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 2:40:17 | 49.21 | 44.11 | 1,152 | 0.32 | 0.37 | 63.0 |
| 5/2/2015 2:40:17 | 49.54 | 44.44 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 2:40:18 | 49.87 | 44.77 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 2:40:18 | 50.20 | 45.10 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:18 | 50.53 | 45.43 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 2:40:18 | 50.85 | 45.75 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 2:40:19 | 51.18 | 46.08 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/2/2015 2:40:19 | 51.51 | 46.41 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/2/2015 2:40:19 | 51.84 | 46.74 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:40:20 | 52.17 | 47.07 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:40:20 | 52.49 | 47.39 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/2/2015 2:40:20 | 52.82 | 47.72 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 2:40:21 | 53.15 | 48.05 | 1,130 | 0.31 | 0.38 | 61.8 |
| 5/2/2015 2:40:21 | 53.48 | 48.38 | 1,112 | 0.32 | 0.38 | 60.8 |
| 5/2/2015 2:40:21 | 53.81 | 48.71 | 1,103 | 0.32 | 0.38 | 60.3 |
| 5/2/2015 2:40:22 | 54.13 | 49.03 | 1,103 | 0.32 | 0.38 | 60.3 |
| 5/2/2015 2:40:22 | 54.46 | 49.36 | 1,090 | 0.31 | 0.39 | 59.6 |
| 5/2/2015 2:40:22 | 54.79 | 49.69 | 1,063 | 0.29 | 0.47 | 58.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:40:27 | 55.12 | 50.02 | 62 | 4.38 | 0.43 | 3.4 |
| 5/2/2015 | 2:40:31 | 55.45 | 50.35 | 39 | 3.53 | 0.45 | 2.2 |
| 5/2/2015 | 2:40:38 | 55.77 | 50.67 | 52 | 3.31 | 0.46 | 2.8 |
| 5/2/2015 | 2:40:45 | 56.10 | 51.00 | 49 | 2.96 | 0.46 | 2.7 |
| 5/2/2015 | 2:40:51 | 56.43 | 51.33 | 40 | 2.76 | 0.46 | 2.2 |
| 5/2/2015 | 2:41:00 | 56.76 | 51.66 | 41 | 2.88 | 0.46 | 2.2 |
| 5/2/2015 | 2:41:06 | 57.09 | 51.99 | 65 | 3.20 | 0.43 | 3.6 |
| 5/2/2015 | 2:41:07 | 57.41 | 52.31 | 131 | 3.41 | 0.44 | 7.2 |
| 5/2/2015 | 2:41:08 | 57.74 | 52.64 | 297 | 4.13 | 0.45 | 16.3 |
| 5/2/2015 | 2:41:13 | 58.07 | 52.97 | 46 | 3.23 | 0.46 | 2.5 |
| 5/2/2015 | 2:41:22 | 58.40 | 53.30 | 40 | 3.09 | 0.46 | 2.2 |
| 5/2/2015 | 2:41:30 | 58.73 | 53.63 | 55 | 2.99 | 0.46 | 3.0 |
| 5/2/2015 | 2:41:38 | 59.00 | 53.90 | 35 | 2.70 | 0.47 | 1.9 |

## M53 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:38:31

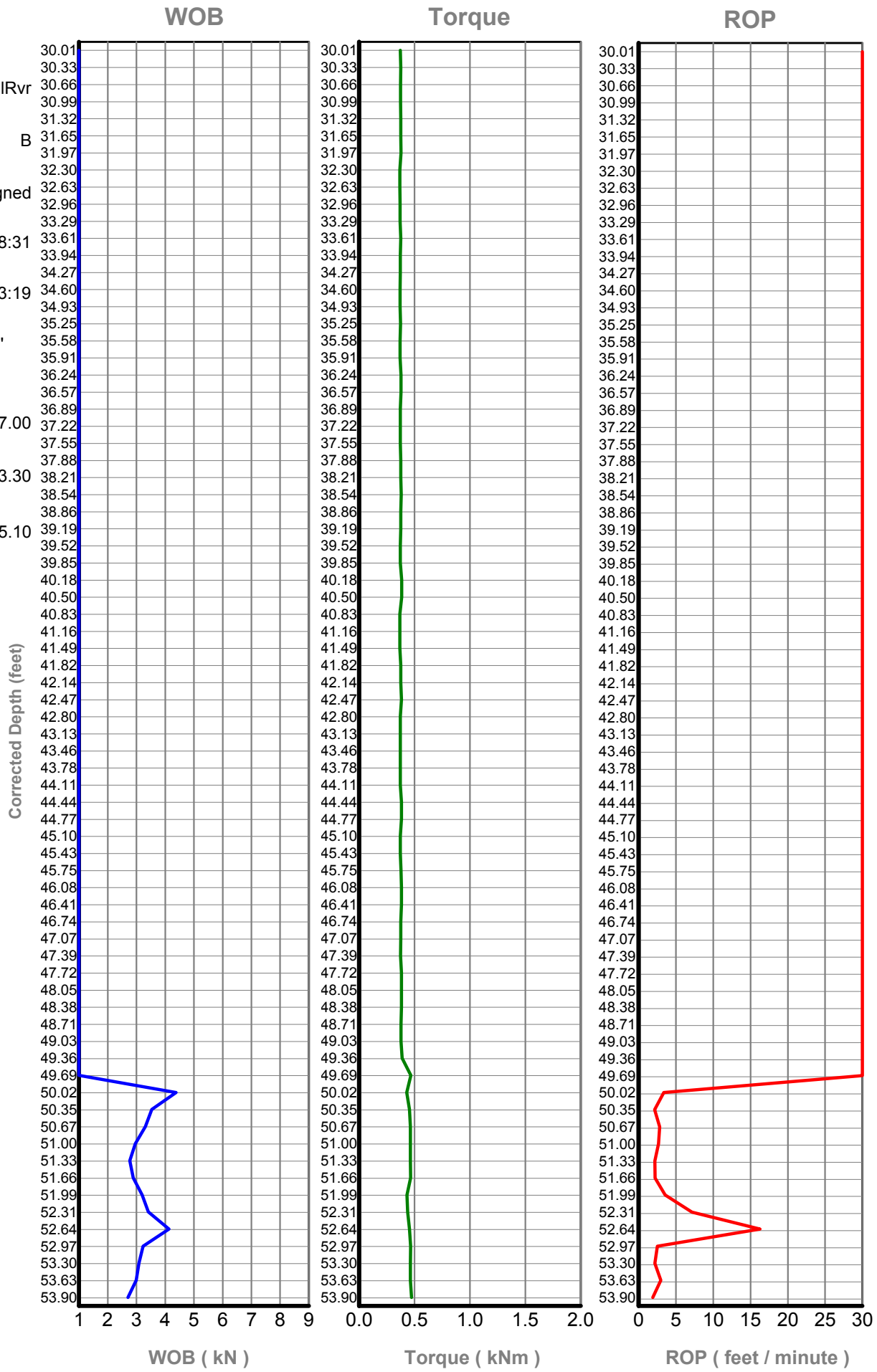
**End Date:**
5/2/2015 2:43:19

**Operator Note:**
'5.1 5.2b Auto Complete'

**Northing:**
358,957.00

**Easting:**
240,303.30

**Tide (feet):**
5.10



## Hole: M54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:38:11 | 35.11 | 30.01 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:38:12 | 35.43 | 30.33 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:38:12 | 35.76 | 30.66 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:12 | 36.09 | 30.99 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:38:13 | 36.42 | 31.32 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:38:13 | 36.75 | 31.65 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:38:13 | 37.07 | 31.97 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:38:14 | 37.40 | 32.30 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:38:14 | 37.73 | 32.63 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:38:14 | 38.06 | 32.96 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:15 | 38.39 | 33.29 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:15 | 38.71 | 33.61 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:38:15 | 39.04 | 33.94 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:38:16 | 39.37 | 34.27 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:38:16 | 39.70 | 34.60 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:17 | 40.03 | 34.93 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:17 | 40.35 | 35.25 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:17 | 40.68 | 35.58 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:18 | 41.01 | 35.91 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:18 | 41.34 | 36.24 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:18 | 41.67 | 36.57 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 2:38:19 | 41.99 | 36.89 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:19 | 42.32 | 37.22 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:19 | 42.65 | 37.55 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:20 | 42.98 | 37.88 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:20 | 43.31 | 38.21 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:20 | 43.64 | 38.54 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:38:21 | 43.96 | 38.86 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:38:21 | 44.29 | 39.19 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:38:21 | 44.62 | 39.52 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:38:22 | 44.95 | 39.85 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:22 | 45.28 | 40.18 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:38:22 | 45.60 | 40.50 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:38:23 | 45.93 | 40.83 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:38:23 | 46.26 | 41.16 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:38:24 | 46.59 | 41.49 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:38:24 | 46.92 | 41.82 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:24 | 47.24 | 42.14 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:25 | 47.57 | 42.47 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:25 | 47.90 | 42.80 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:38:25 | 48.23 | 43.13 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:38:26 | 48.56 | 43.46 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:38:26 | 48.88 | 43.78 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:38:26 | 49.21 | 44.11 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:38:27 | 49.54 | 44.44 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:38:27 | 49.87 | 44.77 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:38:27 | 50.20 | 45.10 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:38:28 | 50.53 | 45.43 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:38:28 | 50.85 | 45.75 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:38:28 | 51.18 | 46.08 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:29 | 51.51 | 46.41 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:38:29 | 51.84 | 46.74 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:38:30 | 52.17 | 47.07 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 2:38:30 | 52.49 | 47.39 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 2:38:30 | 52.82 | 47.72 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:38:31 | 53.15 | 48.05 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:31 | 53.48 | 48.38 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:38:31 | 53.81 | 48.71 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 2:38:32 | 54.13 | 49.03 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 2:38:32 | 54.46 | 49.36 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 2:38:33 | 54.79 | 49.69 | 977 | 1.14 | 0.29 | 53.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:38:33 | 55.12 | 50.02 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 | 2:38:33 | 55.45 | 50.35 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 | 2:38:34 | 55.77 | 50.67 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 | 2:38:34 | 56.10 | 51.00 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 | 2:38:34 | 56.43 | 51.33 | 937 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 | 2:38:35 | 56.76 | 51.66 | 928 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 | 2:38:35 | 57.09 | 51.99 | 904 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 2:38:36 | 57.41 | 52.31 | 904 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 2:38:36 | 57.74 | 52.64 | 893 | 1.14 | 0.29 | 48.8 |
| 5/2/2015 | 2:38:36 | 58.07 | 52.97 | 884 | 1.14 | 0.29 | 48.3 |
| 5/2/2015 | 2:38:43 | 58.40 | 53.30 | 80 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 2:38:44 | 58.73 | 53.63 | 218 | 1.14 | 0.29 | 11.9 |
| 5/2/2015 | 2:38:44 | 59.06 | 53.96 | 347 | 1.14 | 0.29 | 19.0 |
| 5/2/2015 | 2:38:45 | 59.38 | 54.28 | 468 | 1.14 | 0.29 | 25.6 |
| 5/2/2015 | 2:38:45 | 59.71 | 54.61 | 559 | 1.14 | 0.29 | 30.6 |
| 5/2/2015 | 2:38:46 | 60.04 | 54.94 | 583 | 1.14 | 0.29 | 31.9 |
| 5/2/2015 | 2:38:47 | 60.37 | 55.27 | 563 | 1.14 | 0.29 | 30.8 |
| 5/2/2015 | 2:38:47 | 60.43 | 55.33 | 563 | 1.14 | 0.29 | 30.8 |

## M54 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:37:11

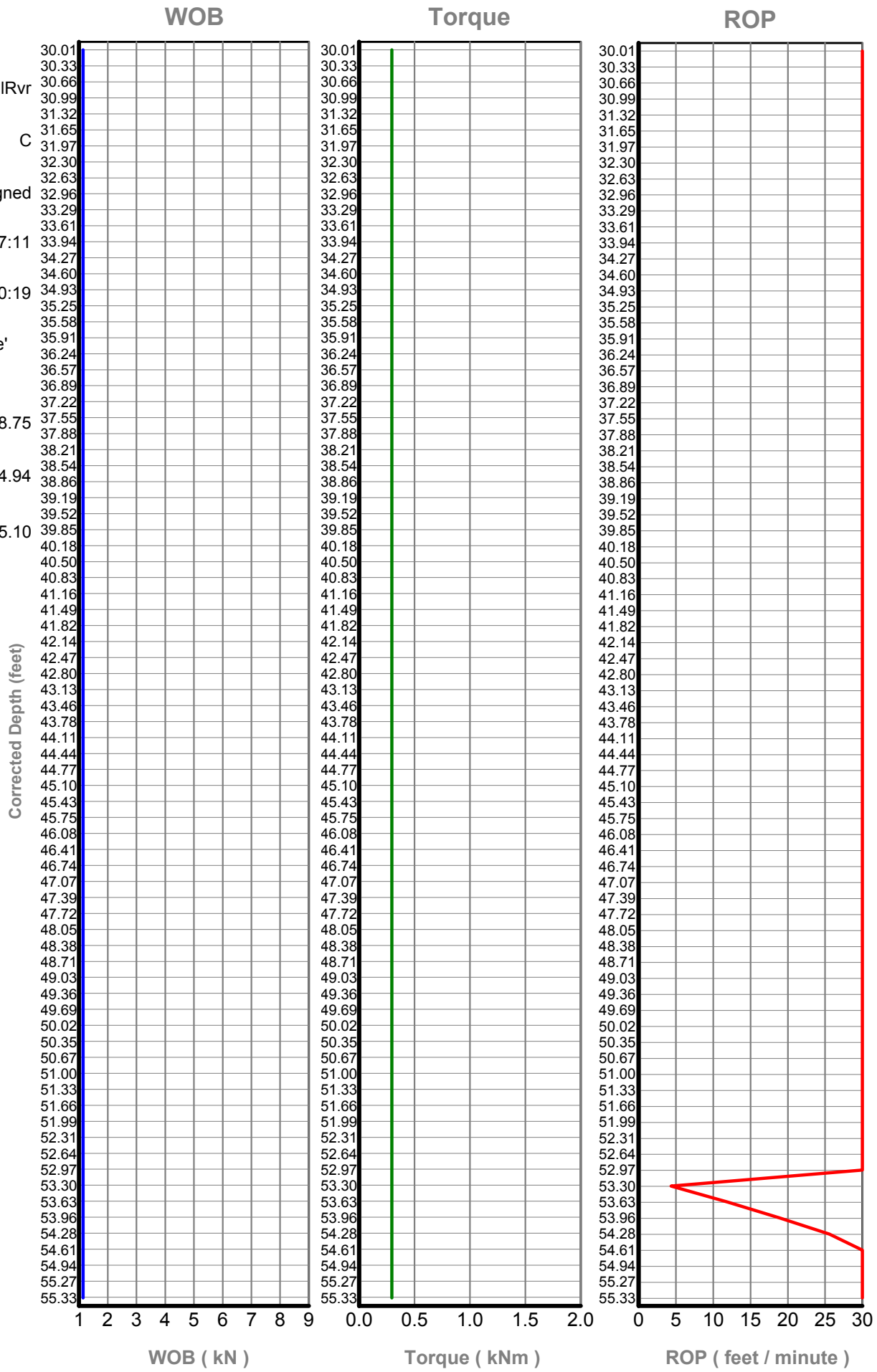
**End Date:**
5/2/2015 2:40:19

**Operator Note:**
'5.1 5.2 c Auto Complete'

**Northing:**
358,998.75

**Easting:**
240,364.94

**Tide (feet):**
5.10



## Hole: M55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:53:21 | 37.07 | 30.27 | 1,072 | 1.60 | 0.24 | 58.6 |
| 5/2/2015 0:53:21 | 37.40 | 30.60 | 1,072 | 1.60 | 0.24 | 58.6 |
| 5/2/2015 0:53:21 | 37.73 | 30.93 | 1,072 | 1.45 | 0.26 | 58.6 |
| 5/2/2015 0:53:22 | 38.06 | 31.26 | 1,040 | 1.44 | 0.26 | 56.9 |
| 5/2/2015 0:53:22 | 38.39 | 31.59 | 1,014 | 0.87 | 0.25 | 55.5 |
| 5/2/2015 0:53:23 | 38.71 | 31.91 | 863 | 1.21 | 0.25 | 47.2 |
| 5/2/2015 0:53:23 | 39.04 | 32.24 | 778 | 1.21 | 0.26 | 42.5 |
| 5/2/2015 0:53:24 | 39.37 | 32.57 | 698 | 1.22 | 0.26 | 38.1 |
| 5/2/2015 0:53:24 | 39.70 | 32.90 | 646 | 1.21 | 0.26 | 35.3 |
| 5/2/2015 0:53:25 | 40.03 | 33.23 | 599 | 1.21 | 0.26 | 32.8 |
| 5/2/2015 0:53:25 | 40.35 | 33.55 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:27 | 40.68 | 33.88 | 671 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:53:27 | 41.01 | 34.21 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:28 | 41.34 | 34.54 | 665 | 1.21 | 0.26 | 36.4 |
| 5/2/2015 0:53:28 | 41.67 | 34.87 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:29 | 41.99 | 35.19 | 671 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:53:29 | 42.32 | 35.52 | 671 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:53:30 | 42.65 | 35.85 | 671 | 1.22 | 0.26 | 36.7 |
| 5/2/2015 0:53:30 | 42.98 | 36.18 | 667 | 1.21 | 0.26 | 36.4 |
| 5/2/2015 0:53:31 | 43.31 | 36.51 | 671 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:53:31 | 43.64 | 36.84 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:32 | 43.96 | 37.16 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:32 | 44.29 | 37.49 | 668 | 1.21 | 0.26 | 36.5 |
| 5/2/2015 0:53:33 | 44.62 | 37.82 | 672 | 1.21 | 0.26 | 36.7 |
| 5/2/2015 0:53:33 | 44.95 | 38.15 | 665 | 1.21 | 0.25 | 36.4 |
| 5/2/2015 0:53:34 | 45.28 | 38.48 | 662 | 1.21 | 0.25 | 36.2 |
| 5/2/2015 0:53:34 | 45.60 | 38.80 | 658 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 0:53:35 | 45.93 | 39.13 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 0:53:35 | 46.26 | 39.46 | 658 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 0:53:36 | 46.59 | 39.79 | 659 | 1.21 | 0.25 | 36.0 |
| 5/2/2015 0:53:37 | 46.92 | 40.12 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 0:53:37 | 47.24 | 40.44 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 0:53:38 | 47.57 | 40.77 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 0:53:38 | 47.90 | 41.10 | 666 | 1.11 | 0.20 | 36.4 |
| 5/2/2015 0:53:39 | 48.23 | 41.43 | 668 | 1.12 | 0.20 | 36.5 |
| 5/2/2015 0:53:39 | 48.56 | 41.76 | 692 | 1.09 | 0.20 | 37.8 |
| 5/2/2015 0:53:40 | 48.88 | 42.08 | 703 | 1.11 | 0.20 | 38.5 |
| 5/2/2015 0:53:40 | 49.21 | 42.41 | 697 | 1.11 | 0.20 | 38.1 |
| 5/2/2015 0:53:41 | 49.54 | 42.74 | 697 | 1.11 | 0.20 | 38.1 |
| 5/2/2015 0:53:41 | 49.87 | 43.07 | 717 | 1.10 | 0.20 | 39.2 |
| 5/2/2015 0:53:42 | 50.20 | 43.40 | 722 | 1.09 | 0.20 | 39.5 |
| 5/2/2015 0:53:42 | 50.53 | 43.73 | 714 | 1.10 | 0.20 | 39.1 |
| 5/2/2015 0:53:43 | 50.85 | 44.05 | 711 | 1.11 | 0.20 | 38.9 |
| 5/2/2015 0:53:43 | 51.18 | 44.38 | 725 | 1.11 | 0.20 | 39.7 |
| 5/2/2015 0:53:44 | 51.51 | 44.71 | 714 | 1.09 | 0.20 | 39.0 |
| 5/2/2015 0:53:44 | 51.84 | 45.04 | 711 | 1.11 | 0.20 | 38.9 |
| 5/2/2015 0:53:45 | 52.17 | 45.37 | 704 | 1.11 | 0.20 | 38.5 |
| 5/2/2015 0:53:45 | 52.49 | 45.69 | 711 | 1.10 | 0.20 | 38.9 |
| 5/2/2015 0:53:46 | 52.82 | 46.02 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 0:53:46 | 53.15 | 46.35 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 0:53:46 | 53.48 | 46.68 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 0:53:47 | 53.81 | 47.01 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 0:53:48 | 54.13 | 47.33 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 0:53:48 | 54.46 | 47.66 | 700 | 1.10 | 0.20 | 38.3 |
| 5/2/2015 0:53:49 | 54.79 | 47.99 | 700 | 1.11 | 0.20 | 38.3 |
| 5/2/2015 0:53:56 | 55.12 | 48.32 | 37 | 1.11 | 1.39 | 2.0 |
| 5/2/2015 0:54:00 | 55.45 | 48.65 | 93 | 1.02 | 1.32 | 5.1 |
| 5/2/2015 0:54:03 | 55.77 | 48.97 | 122 | 1.07 | 1.21 | 6.7 |
| 5/2/2015 0:54:07 | 56.10 | 49.30 | 85 | 1.11 | 1.08 | 4.6 |
| 5/2/2015 0:54:14 | 56.43 | 49.63 | 51 | 1.11 | 0.99 | 2.8 |
| 5/2/2015 0:54:23 | 56.76 | 49.96 | 35 | 1.08 | 0.91 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:54:33 | 57.09 | 50.29 | 33 | 1.09 | 0.95 | 1.8 |
| 5/2/2015 | 0:54:37 | 57.26 | 50.46 | 37 | 1.09 | 0.92 | 2.0 |

## M55 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:44:59

**End Date:**
5/2/2015 0:55:45

**Operator Note:**
'6.8 6.8 a Auto Complete'

**Northing:**
359,036.60

**Easting:**
240,428.50

**Tide (feet):**
6.80



## Hole: M56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:53:57 | 36.75 | 30.05 | 1,141 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 0:53:58 | 37.07 | 30.37 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:53:58 | 37.40 | 30.70 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:53:58 | 37.73 | 31.03 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:53:59 | 38.06 | 31.36 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 0:53:59 | 38.39 | 31.69 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/2/2015 0:53:59 | 38.71 | 32.01 | 1,147 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 0:54:00 | 39.04 | 32.34 | 1,147 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 0:54:00 | 39.37 | 32.67 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 0:54:00 | 39.70 | 33.00 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 0:54:00 | 40.03 | 33.33 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/2/2015 0:54:01 | 40.35 | 33.65 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 0:54:01 | 40.68 | 33.98 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 0:54:01 | 41.01 | 34.31 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 0:54:02 | 41.34 | 34.64 | 1,158 | 0.32 | 0.37 | 63.3 |
| 5/2/2015 0:54:02 | 41.67 | 34.97 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 0:54:02 | 41.99 | 35.29 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/2/2015 0:54:03 | 42.32 | 35.62 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/2/2015 0:54:03 | 42.65 | 35.95 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 0:54:04 | 42.98 | 36.28 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 0:54:03 | 43.31 | 36.61 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:54:04 | 43.64 | 36.94 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:54:04 | 43.96 | 37.26 | 1,172 | 0.32 | 0.37 | 64.1 |
| 5/2/2015 0:54:05 | 44.29 | 37.59 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 0:54:05 | 44.62 | 37.92 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 0:54:05 | 44.95 | 38.25 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:54:06 | 45.28 | 38.58 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:54:06 | 45.60 | 38.90 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 0:54:06 | 45.93 | 39.23 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 0:54:07 | 46.26 | 39.56 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 0:54:07 | 46.59 | 39.89 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/2/2015 0:54:07 | 46.92 | 40.22 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/2/2015 0:54:07 | 47.24 | 40.54 | 1,159 | 0.12 | 0.38 | 63.4 |
| 5/2/2015 0:54:08 | 47.57 | 40.87 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:54:08 | 47.90 | 41.20 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:54:08 | 48.23 | 41.53 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 0:54:09 | 48.56 | 41.86 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 0:54:09 | 48.88 | 42.18 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 0:54:09 | 49.21 | 42.51 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 0:54:10 | 49.54 | 42.84 | 1,162 | 0.32 | 0.37 | 63.6 |
| 5/2/2015 0:54:10 | 49.87 | 43.17 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 0:54:10 | 50.20 | 43.50 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 0:54:10 | 50.53 | 43.83 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:54:11 | 50.85 | 44.15 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 0:54:11 | 51.18 | 44.48 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 0:54:11 | 51.51 | 44.81 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 0:54:12 | 51.84 | 45.14 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 0:54:12 | 52.17 | 45.47 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 0:54:12 | 52.49 | 45.79 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 0:54:12 | 52.82 | 46.12 | 1,159 | 0.31 | 0.37 | 63.4 |
| 5/2/2015 0:54:13 | 53.15 | 46.45 | 1,144 | 0.31 | 0.38 | 62.6 |
| 5/2/2015 0:54:13 | 53.48 | 46.78 | 1,144 | 0.31 | 0.38 | 62.6 |
| 5/2/2015 0:54:13 | 53.81 | 47.11 | 1,142 | 0.39 | 0.38 | 62.5 |
| 5/2/2015 0:54:14 | 54.13 | 47.43 | 1,142 | 0.39 | 0.38 | 62.5 |
| 5/2/2015 0:54:14 | 54.46 | 47.76 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/2/2015 0:54:15 | 54.79 | 48.09 | 1,120 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 0:54:15 | 55.12 | 48.42 | 1,120 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 0:54:15 | 55.45 | 48.75 | 1,102 | 0.33 | 0.38 | 60.3 |
| 5/2/2015 0:54:16 | 55.77 | 49.07 | 1,097 | 0.30 | 0.39 | 60.0 |
| 5/2/2015 0:54:16 | 56.10 | 49.40 | 1,097 | 0.30 | 0.39 | 60.0 |
| 5/2/2015 0:54:20 | 56.43 | 49.73 | 0 | 3.54 | 0.43 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:54:23 | 56.76 | 50.06 | 130 | 3.81 | 0.47 | 7.1 |
| 5/2/2015 | 0:54:25 | 57.09 | 50.39 | 143 | 4.05 | 0.45 | 7.8 |
| 5/2/2015 | 0:54:27 | 57.41 | 50.71 | 178 | 3.82 | 0.46 | 9.7 |
| 5/2/2015 | 0:54:29 | 57.74 | 51.04 | 173 | 4.06 | 0.47 | 9.5 |
| 5/2/2015 | 0:54:31 | 58.07 | 51.37 | 171 | 4.10 | 0.45 | 9.4 |
| 5/2/2015 | 0:54:33 | 58.40 | 51.70 | 172 | 4.05 | 0.43 | 9.4 |
| 5/2/2015 | 0:54:35 | 58.73 | 52.03 | 197 | 4.15 | 0.45 | 10.8 |
| 5/2/2015 | 0:54:36 | 59.06 | 52.36 | 247 | 3.90 | 0.44 | 13.5 |
| 5/2/2015 | 0:54:37 | 59.38 | 52.68 | 263 | 4.20 | 0.44 | 14.4 |
| 5/2/2015 | 0:54:40 | 59.71 | 53.01 | 208 | 3.60 | 0.46 | 11.4 |
| 5/2/2015 | 0:54:43 | 60.04 | 53.34 | 112 | 3.38 | 0.46 | 6.1 |
| 5/2/2015 | 0:54:48 | 60.37 | 53.67 | 70 | 3.15 | 0.47 | 3.8 |
| 5/2/2015 | 0:54:57 | 60.70 | 54.00 | 45 | 3.28 | 0.46 | 2.5 |
| 5/2/2015 | 0:55:03 | 61.02 | 54.32 | 46 | 3.31 | 0.47 | 2.5 |
| 5/2/2015 | 0:55:09 | 61.35 | 54.65 | 69 | 3.16 | 0.47 | 3.8 |
| 5/2/2015 | 0:55:10 | 61.40 | 54.70 | 67 | 3.09 | 0.47 | 3.6 |

## M56 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:52:26

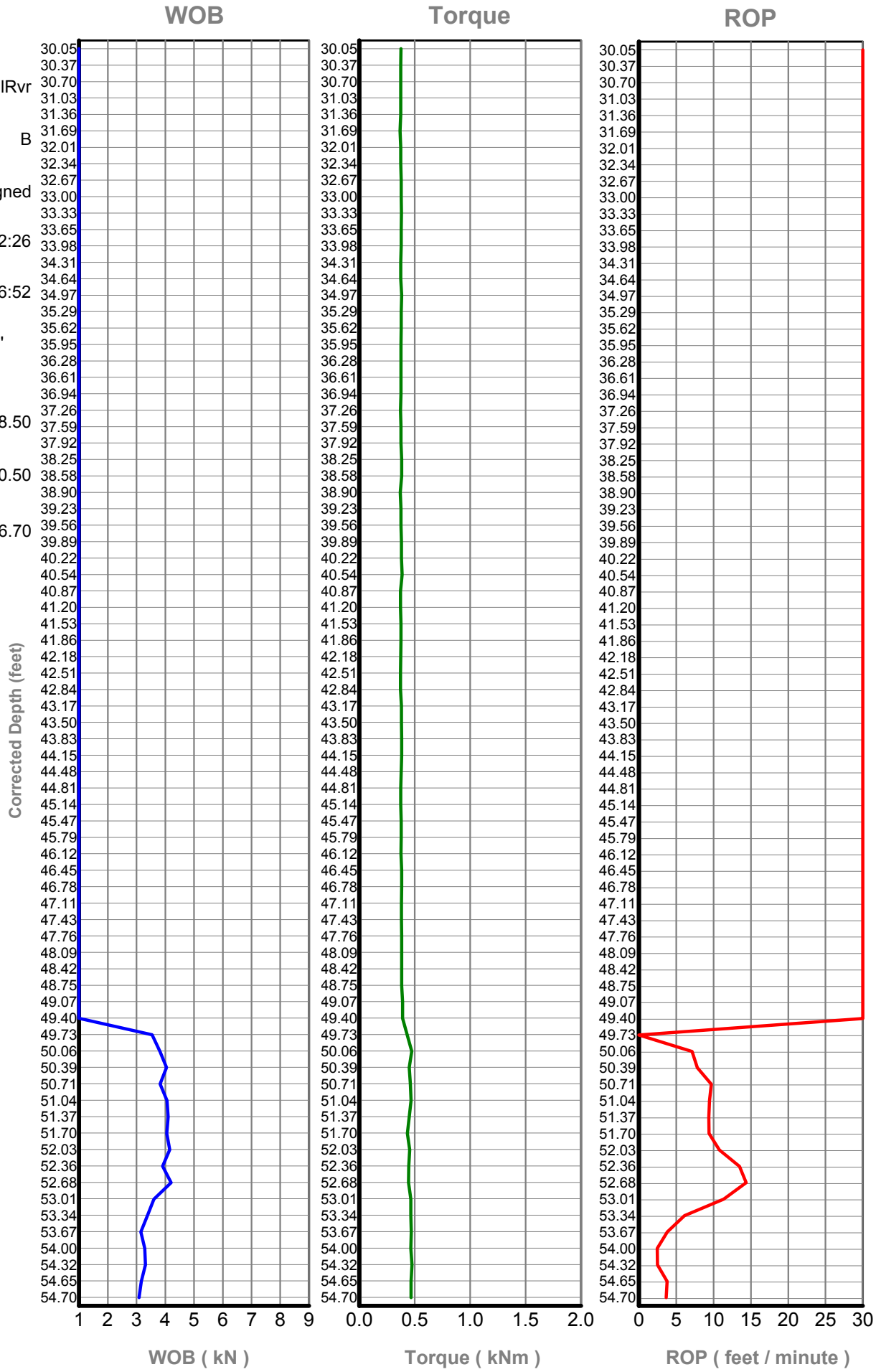
**End Date:**
5/2/2015 0:56:52

**Operator Note:**
'6.7 6.8b Auto Complete'

**Northing:**
359,078.50

**Easting:**
240,490.50

**Tide (feet):**
6.70



## Hole: M57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:52:05 | 36.75 | 30.05 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 0:52:05 | 37.07 | 30.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 0:52:05 | 37.40 | 30.70 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 0:52:06 | 37.73 | 31.03 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 0:52:06 | 38.06 | 31.36 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 0:52:06 | 38.39 | 31.69 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 0:52:07 | 38.71 | 32.01 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 0:52:07 | 39.04 | 32.34 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:07 | 39.37 | 32.67 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:07 | 39.70 | 33.00 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 0:52:08 | 40.03 | 33.33 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:08 | 40.35 | 33.65 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:08 | 40.68 | 33.98 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 0:52:09 | 41.01 | 34.31 | 1,069 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 0:52:09 | 41.34 | 34.64 | 1,069 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 0:52:09 | 41.67 | 34.97 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 0:52:10 | 41.99 | 35.29 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:10 | 42.32 | 35.62 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 0:52:10 | 42.65 | 35.95 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:52:11 | 42.98 | 36.28 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:52:11 | 43.31 | 36.61 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:52:11 | 43.64 | 36.94 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:52:12 | 43.96 | 37.26 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 0:52:12 | 44.29 | 37.59 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 0:52:13 | 44.62 | 37.92 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 0:52:13 | 44.95 | 38.25 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 0:52:14 | 45.28 | 38.58 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 0:52:14 | 45.60 | 38.90 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 0:52:14 | 45.93 | 39.23 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 0:52:15 | 46.26 | 39.56 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 0:52:15 | 46.59 | 39.89 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 0:52:15 | 46.92 | 40.22 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 0:52:16 | 47.24 | 40.54 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 0:52:16 | 47.57 | 40.87 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 0:52:16 | 47.90 | 41.20 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 0:52:17 | 48.23 | 41.53 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 0:52:17 | 48.56 | 41.86 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 0:52:17 | 48.88 | 42.18 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:52:18 | 49.21 | 42.51 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 0:52:18 | 49.54 | 42.84 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 0:52:18 | 49.87 | 43.17 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 0:52:18 | 50.20 | 43.50 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 0:52:19 | 50.53 | 43.83 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 0:52:19 | 50.85 | 44.15 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 0:52:19 | 51.18 | 44.48 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 0:52:20 | 51.51 | 44.81 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 0:52:20 | 51.84 | 45.14 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 0:52:20 | 52.17 | 45.47 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 0:52:21 | 52.49 | 45.79 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 0:52:21 | 52.82 | 46.12 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 0:52:21 | 53.15 | 46.45 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:52:22 | 53.48 | 46.78 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:52:22 | 53.81 | 47.11 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:52:23 | 54.13 | 47.43 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:52:23 | 54.46 | 47.76 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:52:23 | 54.79 | 48.09 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:52:24 | 55.12 | 48.42 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 0:52:24 | 55.45 | 48.75 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:52:25 | 55.77 | 49.07 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 0:52:25 | 56.10 | 49.40 | 981 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 0:52:34 | 56.43 | 49.73 | 79 | 1.14 | 0.29 | 4.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 0:52:37 | 56.76 | 50.06 | 215 | 1.14 | 0.29 | 11.7 |
| 5/2/2015 | 0:52:41 | 57.09 | 50.39 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 0:52:47 | 57.41 | 50.71 | 58 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 | 0:52:54 | 57.74 | 51.04 | 51 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 0:53:01 | 58.07 | 51.37 | 51 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 0:53:07 | 58.40 | 51.70 | 60 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 0:53:12 | 58.73 | 52.03 | 79 | 1.14 | 0.29 | 4.3 |
| 5/2/2015 | 0:53:19 | 59.06 | 52.36 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 0:53:26 | 59.38 | 52.68 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 0:53:33 | 59.71 | 53.01 | 60 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 0:53:38 | 59.99 | 53.29 | 51 | 1.14 | 0.29 | 2.8 |

## M57 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:50:56

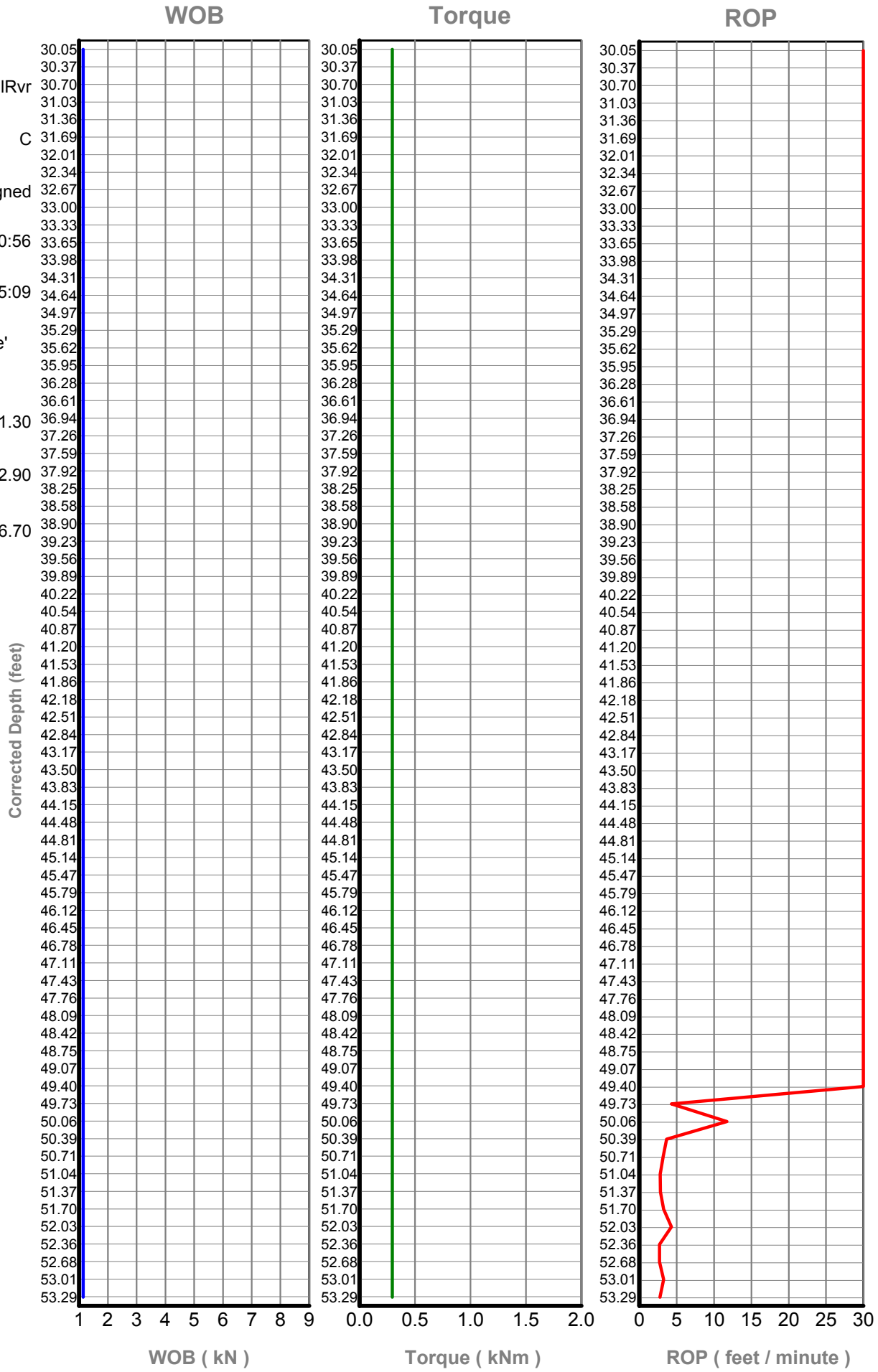
**End Date:**
5/2/2015 0:55:09

**Operator Note:**
'6.7 6.8 c Auto Complete'

**Northing:**
359,121.30

**Easting:**
240,552.90

**Tide (feet):**
6.70



## Hole: M58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:45:46 | 36.75 | 30.15 | 1,155 | 1.83 | 0.25 | 63.1 |
| 5/1/2015 22:45:47 | 37.07 | 30.47 | 1,155 | 1.83 | 0.25 | 63.1 |
| 5/1/2015 22:45:47 | 37.40 | 30.80 | 1,155 | 1.46 | 0.27 | 63.1 |
| 5/1/2015 22:45:47 | 37.73 | 31.13 | 1,182 | 1.45 | 0.27 | 64.6 |
| 5/1/2015 22:45:48 | 38.06 | 31.46 | 1,121 | 1.44 | 0.27 | 61.3 |
| 5/1/2015 22:45:48 | 38.39 | 31.79 | 1,035 | 1.49 | 0.27 | 56.6 |
| 5/1/2015 22:45:49 | 38.71 | 32.11 | 917 | 1.54 | 0.26 | 50.1 |
| 5/1/2015 22:45:50 | 39.04 | 32.44 | 594 | 1.26 | 0.26 | 32.5 |
| 5/1/2015 22:45:51 | 39.37 | 32.77 | 475 | 1.22 | 0.27 | 26.0 |
| 5/1/2015 22:45:51 | 39.70 | 33.10 | 414 | 1.24 | 0.27 | 22.6 |
| 5/1/2015 22:45:52 | 40.03 | 33.43 | 388 | 1.23 | 0.27 | 21.2 |
| 5/1/2015 22:45:52 | 40.35 | 33.75 | 388 | 1.21 | 0.27 | 21.2 |
| 5/1/2015 22:45:53 | 40.68 | 34.08 | 425 | 1.20 | 0.27 | 23.3 |
| 5/1/2015 22:45:54 | 41.01 | 34.41 | 552 | 1.21 | 0.27 | 30.2 |
| 5/1/2015 22:45:55 | 41.34 | 34.74 | 581 | 1.23 | 0.27 | 31.8 |
| 5/1/2015 22:45:55 | 41.67 | 35.07 | 596 | 1.24 | 0.27 | 32.6 |
| 5/1/2015 22:45:56 | 41.99 | 35.39 | 596 | 1.22 | 0.27 | 32.6 |
| 5/1/2015 22:45:56 | 42.32 | 35.72 | 605 | 1.23 | 0.27 | 33.1 |
| 5/1/2015 22:45:57 | 42.65 | 36.05 | 602 | 1.24 | 0.27 | 32.9 |
| 5/1/2015 22:45:57 | 42.98 | 36.38 | 620 | 1.24 | 0.27 | 33.9 |
| 5/1/2015 22:45:58 | 43.31 | 36.71 | 619 | 1.24 | 0.27 | 33.8 |
| 5/1/2015 22:45:59 | 43.64 | 37.04 | 610 | 1.24 | 0.27 | 33.4 |
| 5/1/2015 22:45:59 | 43.96 | 37.36 | 613 | 1.24 | 0.27 | 33.5 |
| 5/1/2015 22:46:00 | 44.29 | 37.69 | 616 | 1.23 | 0.27 | 33.7 |
| 5/1/2015 22:46:00 | 44.62 | 38.02 | 610 | 1.24 | 0.26 | 33.4 |
| 5/1/2015 22:46:01 | 44.95 | 38.35 | 613 | 1.24 | 0.27 | 33.5 |
| 5/1/2015 22:46:01 | 45.28 | 38.68 | 610 | 1.23 | 0.27 | 33.4 |
| 5/1/2015 22:46:02 | 45.60 | 39.00 | 610 | 1.22 | 0.26 | 33.4 |
| 5/1/2015 22:46:02 | 45.93 | 39.33 | 607 | 1.24 | 0.27 | 33.2 |
| 5/1/2015 22:46:03 | 46.26 | 39.66 | 604 | 1.24 | 0.27 | 33.0 |
| 5/1/2015 22:46:04 | 46.59 | 39.99 | 606 | 1.24 | 0.26 | 33.1 |
| 5/1/2015 22:46:04 | 46.92 | 40.32 | 610 | 1.25 | 0.27 | 33.4 |
| 5/1/2015 22:46:05 | 47.24 | 40.64 | 597 | 1.23 | 0.26 | 32.6 |
| 5/1/2015 22:46:05 | 47.57 | 40.97 | 597 | 1.24 | 0.26 | 32.6 |
| 5/1/2015 22:46:06 | 47.90 | 41.30 | 604 | 1.24 | 0.26 | 33.0 |
| 5/1/2015 22:46:07 | 48.23 | 41.63 | 607 | 1.23 | 0.27 | 33.2 |
| 5/1/2015 22:46:07 | 48.56 | 41.96 | 605 | 1.24 | 0.27 | 33.1 |
| 5/1/2015 22:46:08 | 48.88 | 42.28 | 617 | 1.24 | 0.26 | 33.7 |
| 5/1/2015 22:46:09 | 49.21 | 42.61 | 613 | 1.12 | 0.20 | 33.5 |
| 5/1/2015 22:46:09 | 49.54 | 42.94 | 619 | 1.10 | 0.20 | 33.8 |
| 5/1/2015 22:46:10 | 49.87 | 43.27 | 624 | 1.11 | 0.20 | 34.1 |
| 5/1/2015 22:46:10 | 50.20 | 43.60 | 633 | 1.09 | 0.20 | 34.6 |
| 5/1/2015 22:46:11 | 50.53 | 43.93 | 639 | 1.10 | 0.20 | 34.9 |
| 5/1/2015 22:46:11 | 50.85 | 44.25 | 647 | 1.10 | 0.20 | 35.4 |
| 5/1/2015 22:46:12 | 51.18 | 44.58 | 649 | 1.09 | 0.20 | 35.5 |
| 5/1/2015 22:46:12 | 51.51 | 44.91 | 659 | 1.11 | 0.20 | 36.0 |
| 5/1/2015 22:46:13 | 51.84 | 45.24 | 662 | 1.11 | 0.21 | 36.2 |
| 5/1/2015 22:46:13 | 52.17 | 45.57 | 665 | 1.11 | 0.21 | 36.4 |
| 5/1/2015 22:46:14 | 52.49 | 45.89 | 662 | 1.10 | 0.21 | 36.2 |
| 5/1/2015 22:46:14 | 52.82 | 46.22 | 665 | 1.10 | 0.20 | 36.4 |
| 5/1/2015 22:46:15 | 53.15 | 46.55 | 662 | 1.11 | 0.20 | 36.2 |
| 5/1/2015 22:46:15 | 53.48 | 46.88 | 659 | 1.10 | 0.20 | 36.0 |
| 5/1/2015 22:46:16 | 53.81 | 47.21 | 652 | 1.12 | 0.20 | 35.7 |
| 5/1/2015 22:46:17 | 54.13 | 47.53 | 656 | 1.10 | 0.21 | 35.9 |
| 5/1/2015 22:46:17 | 54.46 | 47.86 | 648 | 1.11 | 0.20 | 35.4 |
| 5/1/2015 22:46:18 | 54.79 | 48.19 | 635 | 1.12 | 0.20 | 34.7 |
| 5/1/2015 22:46:19 | 55.12 | 48.52 | 637 | 1.12 | 0.20 | 34.8 |
| 5/1/2015 22:46:19 | 55.45 | 48.85 | 625 | 1.13 | 0.20 | 34.2 |
| 5/1/2015 22:46:20 | 55.77 | 49.17 | 613 | 1.11 | 0.20 | 33.5 |
| 5/1/2015 22:46:20 | 56.10 | 49.50 | 598 | 1.14 | 0.20 | 32.7 |
| 5/1/2015 22:46:21 | 56.43 | 49.83 | 594 | 1.12 | 0.20 | 32.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:46:22 | 56.76 | 50.16 | 572 | 1.10 | 0.20 | 31.3 |
| 5/1/2015 | 22:46:22 | 57.09 | 50.49 | 570 | 1.12 | 0.21 | 31.1 |
| 5/1/2015 | 22:46:23 | 57.41 | 50.81 | 576 | 1.13 | 0.20 | 31.5 |
| 5/1/2015 | 22:46:23 | 57.74 | 51.14 | 570 | 1.13 | 0.20 | 31.1 |
| 5/1/2015 | 22:46:24 | 58.07 | 51.47 | 573 | 1.11 | 0.20 | 31.3 |
| 5/1/2015 | 22:46:25 | 58.40 | 51.80 | 572 | 1.11 | 0.21 | 31.3 |
| 5/1/2015 | 22:47:10 | 58.73 | 52.13 | 0 | 1.86 | 1.32 | 0.0 |
| 5/1/2015 | 22:47:16 | 59.06 | 52.46 | 37 | 1.75 | 1.25 | 2.0 |
| 5/1/2015 | 22:47:16 | 59.38 | 52.78 | 193 | 1.19 | 1.65 | 10.6 |
| 5/1/2015 | 22:47:19 | 59.71 | 53.11 | 302 | 1.20 | 1.17 | 16.5 |
| 5/1/2015 | 22:47:20 | 60.04 | 53.44 | 335 | 1.05 | 1.31 | 18.3 |
| 5/1/2015 | 22:47:21 | 60.37 | 53.77 | 265 | 1.11 | 1.05 | 14.5 |
| 5/1/2015 | 22:47:22 | 60.70 | 54.10 | 315 | 1.09 | 1.15 | 17.2 |
| 5/1/2015 | 22:47:34 | 61.02 | 54.42 | 37 | 1.06 | 0.95 | 2.0 |
| 5/1/2015 | 22:47:43 | 61.35 | 54.75 | 45 | 1.15 | 1.01 | 2.5 |
| 5/1/2015 | 22:47:48 | 61.57 | 54.97 | 55 | 0.74 | 1.16 | 3.0 |

## M58 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:43:39

**End Date:**
5/1/2015 22:49:23

**Operator Note:**
'6.6 6.6 a Auto Complete'

**Northing:**
359,167.15

**Easting:**
240,622.69

**Tide (feet):**
6.60



## Hole: M59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:46:36 | 36.75 | 30.15 | 1,119 | 0.32 | 0.38 | 61.2 |
| 5/1/2015 22:46:36 | 37.07 | 30.47 | 1,124 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 22:46:37 | 37.40 | 30.80 | 1,124 | 0.33 | 0.31 | 61.5 |
| 5/1/2015 22:46:37 | 37.73 | 31.13 | 1,124 | 0.33 | 0.31 | 61.5 |
| 5/1/2015 22:46:37 | 38.06 | 31.46 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 22:46:38 | 38.39 | 31.79 | 1,122 | 0.33 | 0.38 | 61.3 |
| 5/1/2015 22:46:38 | 38.71 | 32.11 | 1,105 | 0.33 | 0.38 | 60.4 |
| 5/1/2015 22:46:38 | 39.04 | 32.44 | 1,105 | 0.31 | 0.37 | 60.4 |
| 5/1/2015 22:46:39 | 39.37 | 32.77 | 1,105 | 0.31 | 0.37 | 60.4 |
| 5/1/2015 22:46:39 | 39.70 | 33.10 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 22:46:39 | 40.03 | 33.43 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 22:46:39 | 40.35 | 33.75 | 1,123 | 0.33 | 0.37 | 61.4 |
| 5/1/2015 22:46:40 | 40.68 | 34.08 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 22:46:40 | 41.01 | 34.41 | 1,126 | 0.33 | 0.38 | 61.6 |
| 5/1/2015 22:46:40 | 41.34 | 34.74 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:46:41 | 41.67 | 35.07 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:46:41 | 41.99 | 35.39 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 22:46:42 | 42.32 | 35.72 | 1,136 | 0.35 | 0.38 | 62.1 |
| 5/1/2015 22:46:42 | 42.65 | 36.05 | 1,136 | 0.35 | 0.38 | 62.1 |
| 5/1/2015 22:46:42 | 42.98 | 36.38 | 1,136 | 0.33 | 0.38 | 62.1 |
| 5/1/2015 22:46:43 | 43.31 | 36.71 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:43 | 43.64 | 37.04 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:43 | 43.96 | 37.36 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:44 | 44.29 | 37.69 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:44 | 44.62 | 38.02 | 1,136 | 0.33 | 0.38 | 62.1 |
| 5/1/2015 22:46:44 | 44.95 | 38.35 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:45 | 45.28 | 38.68 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:45 | 45.60 | 39.00 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 22:46:45 | 45.93 | 39.33 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 22:46:45 | 46.26 | 39.66 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/1/2015 22:46:46 | 46.59 | 39.99 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:46 | 46.92 | 40.32 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:46 | 47.24 | 40.64 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 22:46:47 | 47.57 | 40.97 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 22:46:47 | 47.90 | 41.30 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:47 | 48.23 | 41.63 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:48 | 48.56 | 41.96 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:48 | 48.88 | 42.28 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 22:46:48 | 49.21 | 42.61 | 1,142 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 22:46:48 | 49.54 | 42.94 | 1,142 | 0.33 | 0.38 | 62.4 |
| 5/1/2015 22:46:49 | 49.87 | 43.27 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:49 | 50.20 | 43.60 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:49 | 50.53 | 43.93 | 1,142 | 0.33 | 0.38 | 62.4 |
| 5/1/2015 22:46:50 | 50.85 | 44.25 | 1,142 | 0.33 | 0.38 | 62.4 |
| 5/1/2015 22:46:50 | 51.18 | 44.58 | 1,139 | 0.33 | 0.37 | 62.3 |
| 5/1/2015 22:46:50 | 51.51 | 44.91 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 22:46:51 | 51.84 | 45.24 | 1,135 | 0.33 | 0.37 | 62.1 |
| 5/1/2015 22:46:51 | 52.17 | 45.57 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:51 | 52.49 | 45.89 | 1,145 | 0.33 | 0.38 | 62.6 |
| 5/1/2015 22:46:51 | 52.82 | 46.22 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/1/2015 22:46:52 | 53.15 | 46.55 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:46:53 | 53.48 | 46.88 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 22:46:53 | 53.81 | 47.21 | 1,133 | 0.33 | 0.39 | 62.0 |
| 5/1/2015 22:46:53 | 54.13 | 47.53 | 1,133 | 0.33 | 0.39 | 62.0 |
| 5/1/2015 22:46:53 | 54.46 | 47.86 | 1,130 | 0.33 | 0.38 | 61.8 |
| 5/1/2015 22:46:54 | 54.79 | 48.19 | 1,119 | 0.06 | 0.46 | 61.2 |
| 5/1/2015 22:46:54 | 55.12 | 48.52 | 1,119 | 0.06 | 0.46 | 61.2 |
| 5/1/2015 22:46:54 | 55.45 | 48.85 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/1/2015 22:46:55 | 55.77 | 49.17 | 1,093 | 0.33 | 0.39 | 59.8 |
| 5/1/2015 22:46:55 | 56.10 | 49.50 | 1,093 | 0.33 | 0.39 | 59.8 |
| 5/1/2015 22:46:55 | 56.43 | 49.83 | 1,084 | 0.33 | 0.39 | 59.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:46:56 | 56.76 | 50.16 | 1,064 | 0.33 | 0.39 | 58.2 |
| 5/1/2015 | 22:46:56 | 57.09 | 50.49 | 1,064 | 0.33 | 0.39 | 58.2 |
| 5/1/2015 | 22:46:56 | 57.41 | 50.81 | 1,047 | 0.33 | 0.39 | 57.2 |
| 5/1/2015 | 22:46:57 | 57.74 | 51.14 | 1,030 | 0.33 | 0.39 | 56.3 |
| 5/1/2015 | 22:46:57 | 58.07 | 51.47 | 1,030 | 0.33 | 0.39 | 56.3 |
| 5/1/2015 | 22:46:57 | 58.40 | 51.80 | 1,024 | 0.32 | 0.39 | 56.0 |
| 5/1/2015 | 22:46:58 | 58.73 | 52.13 | 984 | 0.31 | 0.43 | 53.8 |
| 5/1/2015 | 22:47:06 | 59.06 | 52.46 | 26 | 3.64 | 0.45 | 1.4 |
| 5/1/2015 | 22:47:11 | 59.38 | 52.78 | 79 | 4.12 | 0.46 | 4.3 |
| 5/1/2015 | 22:47:15 | 59.71 | 53.11 | 127 | 4.05 | 0.46 | 7.0 |
| 5/1/2015 | 22:47:18 | 60.04 | 53.44 | 115 | 3.82 | 0.46 | 6.3 |
| 5/1/2015 | 22:47:20 | 60.37 | 53.77 | 122 | 3.80 | 0.46 | 6.6 |
| 5/1/2015 | 22:47:24 | 60.70 | 54.10 | 121 | 4.46 | 0.46 | 6.6 |
| 5/1/2015 | 22:47:26 | 61.02 | 54.42 | 136 | 4.26 | 0.46 | 7.4 |
| 5/1/2015 | 22:47:29 | 61.35 | 54.75 | 145 | 3.67 | 0.46 | 7.9 |
| 5/1/2015 | 22:47:31 | 61.65 | 55.05 | 136 | 4.17 | 0.46 | 7.4 |

## M59 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:45:00

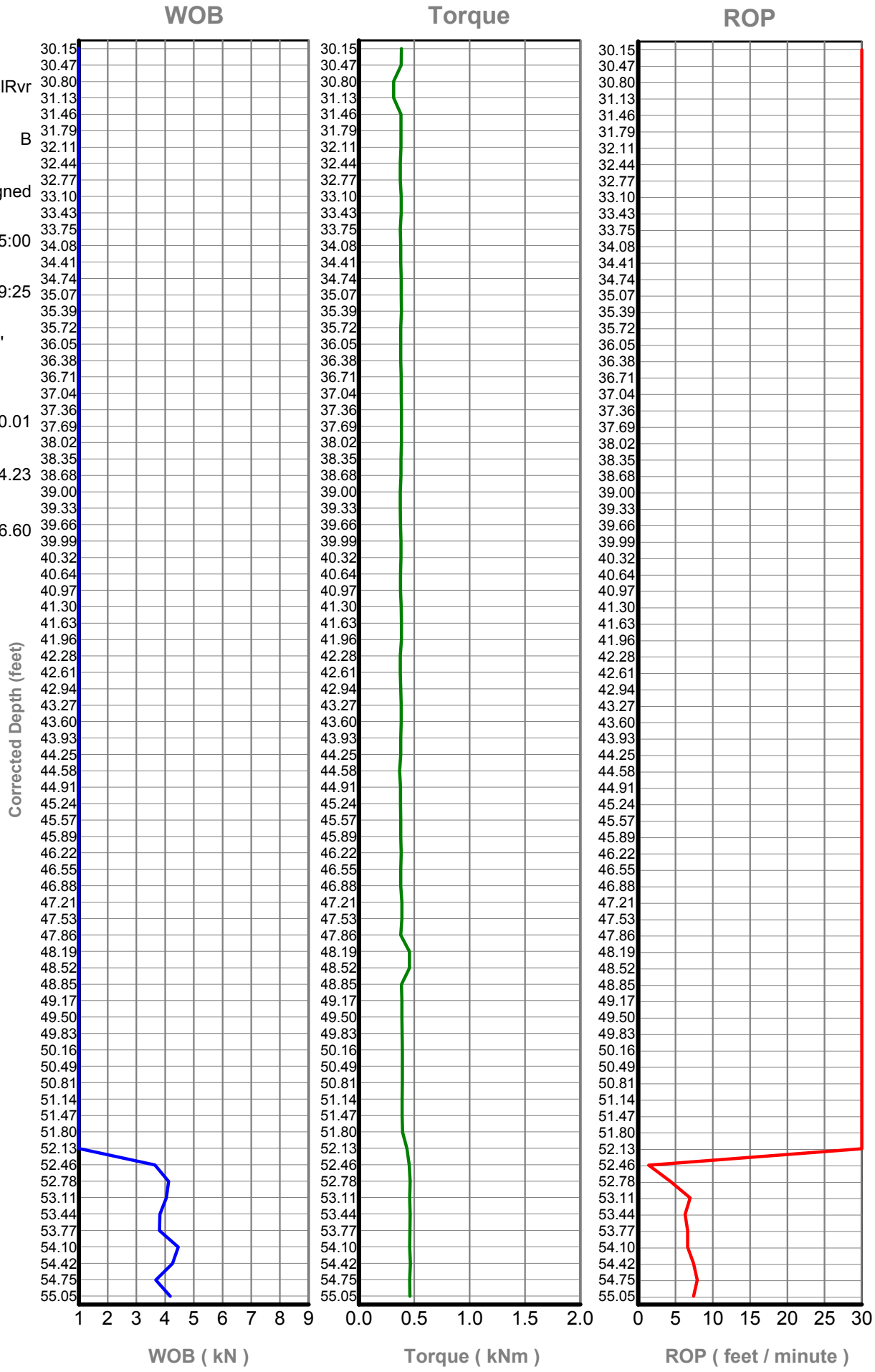
**End Date:**
5/1/2015 22:49:25

**Operator Note:**
'6.6 6.6b Auto Complete'

**Northing:**
359,210.01

**Easting:**
240,684.23

**Tide (feet):**
6.60



## Hole: M6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 3:26:05 | 34.12 | 30.12 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:26:05 | 34.45 | 30.45 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 3:26:05 | 34.78 | 30.78 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:26:06 | 35.11 | 31.11 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 3:26:06 | 35.43 | 31.43 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:26:07 | 35.76 | 31.76 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:26:07 | 36.09 | 32.09 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:26:07 | 36.42 | 32.42 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:08 | 36.75 | 32.75 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:26:08 | 37.07 | 33.07 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:26:08 | 37.40 | 33.40 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 3:26:09 | 37.73 | 33.73 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:26:09 | 38.06 | 34.06 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:26:09 | 38.39 | 34.39 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:10 | 38.71 | 34.71 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:26:10 | 39.04 | 35.04 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 3:26:10 | 39.37 | 35.37 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:11 | 39.70 | 35.70 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:11 | 40.03 | 36.03 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:11 | 40.35 | 36.35 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:12 | 40.68 | 36.68 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:12 | 41.01 | 37.01 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 3:26:12 | 41.34 | 37.34 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 3:26:13 | 41.67 | 37.67 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:26:13 | 41.99 | 37.99 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 3:26:13 | 42.32 | 38.32 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 3:26:14 | 42.65 | 38.65 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 3:26:14 | 42.98 | 38.98 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 3:26:14 | 43.31 | 39.31 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 3:26:15 | 43.64 | 39.64 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 3:26:15 | 43.96 | 39.96 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 3:26:16 | 44.29 | 40.29 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 3:26:16 | 44.62 | 40.62 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 3:26:16 | 44.95 | 40.95 | 958 | 1.14 | 0.29 | 52.4 |
| 5/2/2015 3:26:17 | 45.28 | 41.28 | 952 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 3:26:17 | 45.60 | 41.60 | 952 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 3:26:17 | 45.93 | 41.93 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 3:26:18 | 46.26 | 42.26 | 945 | 1.14 | 0.29 | 51.7 |
| 5/2/2015 3:26:19 | 46.59 | 42.59 | 939 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 3:26:19 | 46.92 | 42.92 | 939 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 3:26:19 | 47.24 | 43.24 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 3:26:29 | 47.57 | 43.57 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 3:26:38 | 47.90 | 43.90 | 25 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 3:26:50 | 48.23 | 44.23 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 3:27:02 | 48.56 | 44.56 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 3:27:08 | 48.71 | 44.71 | 35 | 1.14 | 0.29 | 1.9 |

## M6 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 3:25:10

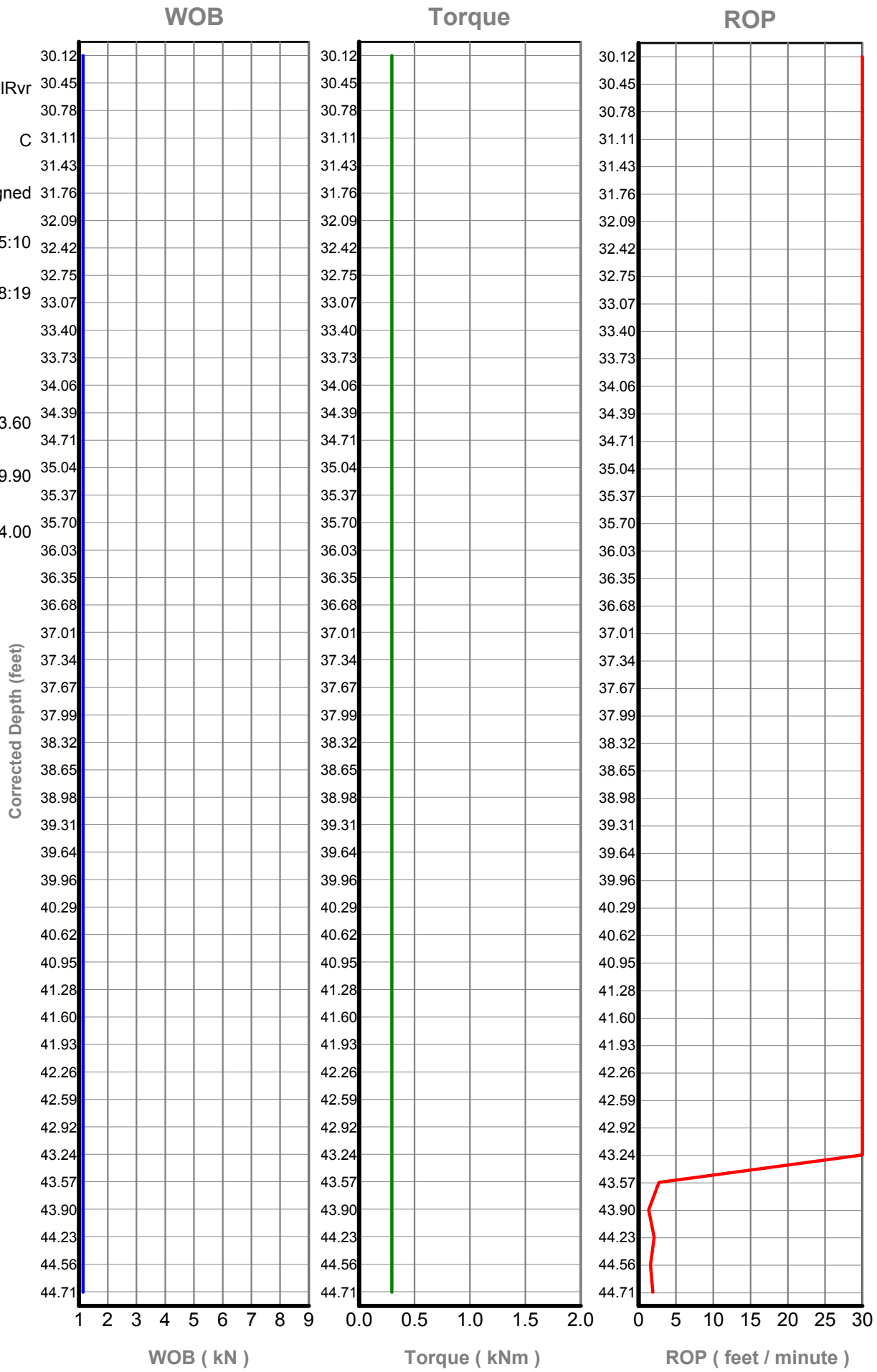
**End Date:**
5/2/2015 3:28:19

**Operator Note:**
'4 4.2 c Auto Complete'

**Northing:**
359,253.60

**Easting:**
240,209.90

**Tide (feet):**
4.00



## Hole: M60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:44:57 | 36.75 | 30.15 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 22:44:57 | 37.07 | 30.47 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 22:44:58 | 37.40 | 30.80 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 22:44:58 | 37.73 | 31.13 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 22:44:58 | 38.06 | 31.46 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 22:44:59 | 38.39 | 31.79 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:44:59 | 38.71 | 32.11 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:44:59 | 39.04 | 32.44 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:00 | 39.37 | 32.77 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 22:45:01 | 39.70 | 33.10 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 22:45:01 | 40.03 | 33.43 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:45:01 | 40.35 | 33.75 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:45:02 | 40.68 | 34.08 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:45:02 | 41.01 | 34.41 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:45:02 | 41.34 | 34.74 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 22:45:03 | 41.67 | 35.07 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 22:45:03 | 41.99 | 35.39 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:03 | 42.32 | 35.72 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:04 | 42.65 | 36.05 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:04 | 42.98 | 36.38 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:04 | 43.31 | 36.71 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:45:05 | 43.64 | 37.04 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:45:05 | 43.96 | 37.36 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:45:05 | 44.29 | 37.69 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:06 | 44.62 | 38.02 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:06 | 44.95 | 38.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 22:45:06 | 45.28 | 38.68 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:07 | 45.60 | 39.00 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:07 | 45.93 | 39.33 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:07 | 46.26 | 39.66 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:08 | 46.59 | 39.99 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:08 | 46.92 | 40.32 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:08 | 47.24 | 40.64 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:09 | 47.57 | 40.97 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:09 | 47.90 | 41.30 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:45:09 | 48.23 | 41.63 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 22:45:10 | 48.56 | 41.96 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 22:45:10 | 48.88 | 42.28 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:10 | 49.21 | 42.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:11 | 49.54 | 42.94 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:11 | 49.87 | 43.27 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:11 | 50.20 | 43.60 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:45:12 | 50.53 | 43.93 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:45:12 | 50.85 | 44.25 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:13 | 51.18 | 44.58 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:13 | 51.51 | 44.91 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:45:13 | 51.84 | 45.24 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:14 | 52.17 | 45.57 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:14 | 52.49 | 45.89 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:15 | 52.82 | 46.22 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:45:15 | 53.15 | 46.55 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:45:15 | 53.48 | 46.88 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:45:16 | 53.81 | 47.21 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:45:16 | 54.13 | 47.53 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 22:45:16 | 54.46 | 47.86 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:45:17 | 54.79 | 48.19 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:45:17 | 55.12 | 48.52 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:45:17 | 55.45 | 48.85 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:45:18 | 55.77 | 49.17 | 968 | 1.14 | 0.29 | 52.9 |
| 5/1/2015 22:45:18 | 56.10 | 49.50 | 968 | 1.14 | 0.29 | 52.9 |
| 5/1/2015 22:45:18 | 56.43 | 49.83 | 948 | 1.14 | 0.29 | 51.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:45:19 | 56.76 | 50.16 | 921 | 1.14 | 0.29 | 50.4 |
| 5/1/2015 | 22:45:31 | 57.09 | 50.49 | 60 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 22:45:31 | 57.41 | 50.81 | 139 | 1.14 | 0.29 | 7.6 |
| 5/1/2015 | 22:45:32 | 57.74 | 51.14 | 250 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 | 22:45:32 | 58.07 | 51.47 | 250 | 1.14 | 0.29 | 13.7 |
| 5/1/2015 | 22:45:44 | 58.40 | 51.80 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 22:45:51 | 58.73 | 52.13 | 47 | 1.14 | 0.29 | 2.6 |
| 5/1/2015 | 22:46:00 | 59.06 | 52.46 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 22:46:04 | 59.38 | 52.78 | 96 | 1.14 | 0.29 | 5.2 |
| 5/1/2015 | 22:46:06 | 59.71 | 53.11 | 143 | 1.14 | 0.29 | 7.8 |
| 5/1/2015 | 22:46:11 | 60.04 | 53.44 | 69 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 22:46:16 | 60.37 | 53.77 | 72 | 1.14 | 0.29 | 3.9 |
| 5/1/2015 | 22:46:21 | 60.70 | 54.10 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 | 22:46:28 | 61.02 | 54.42 | 69 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 22:46:33 | 61.35 | 54.75 | 69 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 | 22:46:37 | 61.66 | 55.06 | 87 | 1.14 | 0.29 | 4.7 |

## M60 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:43:52

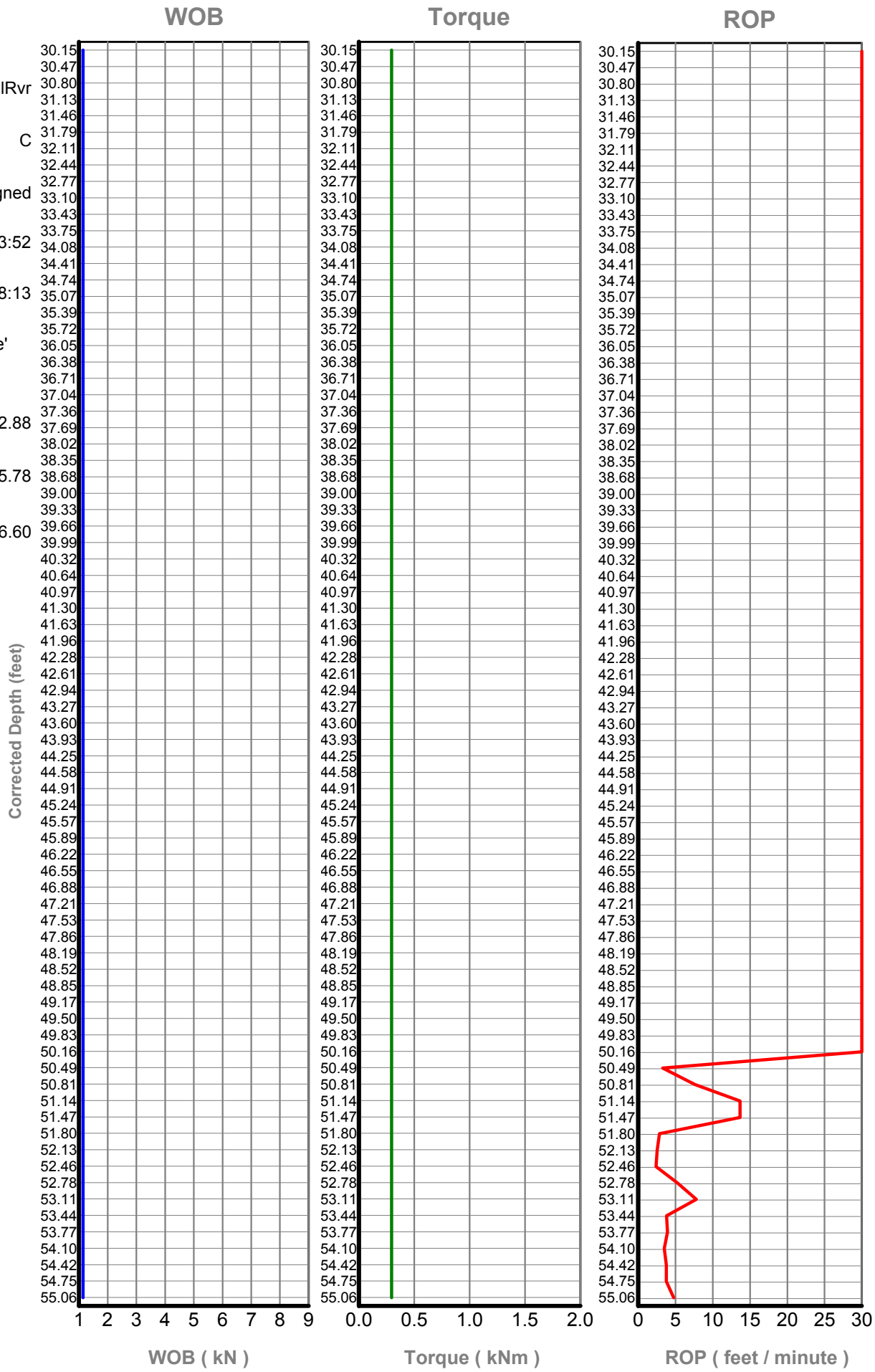
**End Date:**
5/1/2015 22:48:13

**Operator Note:**
'6.6 6.6 c Auto Complete'

**Northing:**
359,252.88

**Easting:**
240,745.78

**Tide (feet):**
6.60



## Hole: M61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:10:58 | 32.81 | 30.31 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 5:10:59 | 33.14 | 30.64 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 5:10:59 | 33.46 | 30.96 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 5:10:59 | 33.79 | 31.29 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 5:10:59 | 34.12 | 31.62 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 5:11:00 | 34.45 | 31.95 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 5:11:00 | 34.78 | 32.28 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 5:11:00 | 35.11 | 32.61 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:01 | 35.43 | 32.93 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:01 | 35.76 | 33.26 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:01 | 36.09 | 33.59 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:02 | 36.42 | 33.92 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:02 | 36.75 | 34.25 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 5:11:02 | 37.07 | 34.57 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 5:11:02 | 37.40 | 34.90 | 1,136 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 5:11:03 | 37.73 | 35.23 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 5:11:03 | 38.06 | 35.56 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 5:11:03 | 38.39 | 35.89 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:04 | 38.71 | 36.21 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:04 | 39.04 | 36.54 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 5:11:04 | 39.37 | 36.87 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 5:11:05 | 39.70 | 37.20 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 5:11:05 | 40.03 | 37.53 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:05 | 40.35 | 37.85 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:05 | 40.68 | 38.18 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 5:11:06 | 41.01 | 38.51 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 5:11:07 | 41.34 | 38.84 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 5:11:07 | 41.67 | 39.17 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:07 | 41.99 | 39.49 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:07 | 42.32 | 39.82 | 1,133 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 5:11:08 | 42.65 | 40.15 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:08 | 42.98 | 40.48 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 5:11:08 | 43.31 | 40.81 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 5:11:14 | 43.64 | 41.14 | 88 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 5:11:14 | 43.96 | 41.46 | 224 | 0.54 | 0.17 | 12.2 |
| 5/2/2015 5:11:15 | 44.29 | 41.79 | 351 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 5:11:15 | 44.62 | 42.12 | 491 | 0.54 | 0.17 | 26.8 |
| 5/2/2015 5:11:16 | 44.95 | 42.45 | 622 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 5:11:16 | 45.28 | 42.78 | 672 | 0.54 | 0.17 | 36.8 |
| 5/2/2015 5:11:17 | 45.60 | 43.10 | 672 | 0.54 | 0.17 | 36.8 |
| 5/2/2015 5:11:17 | 45.93 | 43.43 | 676 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 5:11:18 | 46.26 | 43.76 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:11:19 | 46.59 | 44.09 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:11:19 | 46.92 | 44.42 | 669 | 0.54 | 0.17 | 36.6 |
| 5/2/2015 5:11:20 | 47.24 | 44.74 | 669 | 0.54 | 0.17 | 36.6 |
| 5/2/2015 5:11:20 | 47.57 | 45.07 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:11:21 | 47.90 | 45.40 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:11:21 | 48.23 | 45.73 | 663 | 0.54 | 0.17 | 36.3 |
| 5/2/2015 5:11:22 | 48.56 | 46.06 | 660 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 5:11:22 | 48.88 | 46.38 | 653 | 0.54 | 0.17 | 35.7 |
| 5/2/2015 5:11:23 | 49.21 | 46.71 | 651 | 0.54 | 0.17 | 35.6 |
| 5/2/2015 5:11:24 | 49.54 | 47.04 | 657 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 5:11:24 | 49.87 | 47.37 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:11:25 | 50.20 | 47.70 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:11:25 | 50.53 | 48.03 | 677 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 5:11:26 | 50.85 | 48.35 | 686 | 0.54 | 0.17 | 37.5 |
| 5/2/2015 5:11:26 | 51.18 | 48.68 | 686 | 0.54 | 0.17 | 37.5 |
| 5/2/2015 5:11:27 | 51.51 | 49.01 | 676 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 5:11:27 | 51.84 | 49.34 | 680 | 0.54 | 0.17 | 37.2 |
| 5/2/2015 5:11:28 | 52.17 | 49.67 | 678 | 0.54 | 0.17 | 37.1 |
| 5/2/2015 5:11:28 | 52.49 | 49.99 | 674 | 0.54 | 0.17 | 36.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:11:29 | 52.82 | 50.32 | 675 | 0.54 | 0.17 | 36.9 |
| 5/2/2015 | 5:11:42 | 53.15 | 50.65 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 | 5:11:43 | 53.48 | 50.98 | 116 | 0.54 | 0.17 | 6.3 |
| 5/2/2015 | 5:11:45 | 53.81 | 51.31 | 247 | 0.54 | 0.17 | 13.5 |
| 5/2/2015 | 5:11:46 | 54.13 | 51.63 | 254 | 0.54 | 0.17 | 13.9 |
| 5/2/2015 | 5:11:48 | 54.46 | 51.96 | 241 | 0.54 | 0.17 | 13.2 |
| 5/2/2015 | 5:11:50 | 54.79 | 52.29 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 | 5:11:54 | 55.12 | 52.62 | 93 | 0.54 | 0.17 | 5.1 |
| 5/2/2015 | 5:12:06 | 55.45 | 52.95 | 101 | 0.54 | 0.17 | 5.5 |
| 5/2/2015 | 5:12:10 | 55.77 | 53.27 | 81 | 0.54 | 0.17 | 4.4 |
| 5/2/2015 | 5:12:12 | 56.10 | 53.60 | 140 | 0.54 | 0.17 | 7.7 |
| 5/2/2015 | 5:12:18 | 56.43 | 53.93 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 | 5:12:23 | 56.76 | 54.26 | 81 | 0.54 | 0.17 | 4.4 |
| 5/2/2015 | 5:12:28 | 57.09 | 54.59 | 76 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 | 5:12:35 | 57.41 | 54.91 | 53 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 | 5:12:36 | 57.50 | 55.00 | 52 | 0.54 | 0.17 | 2.9 |

## M61 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:01:56

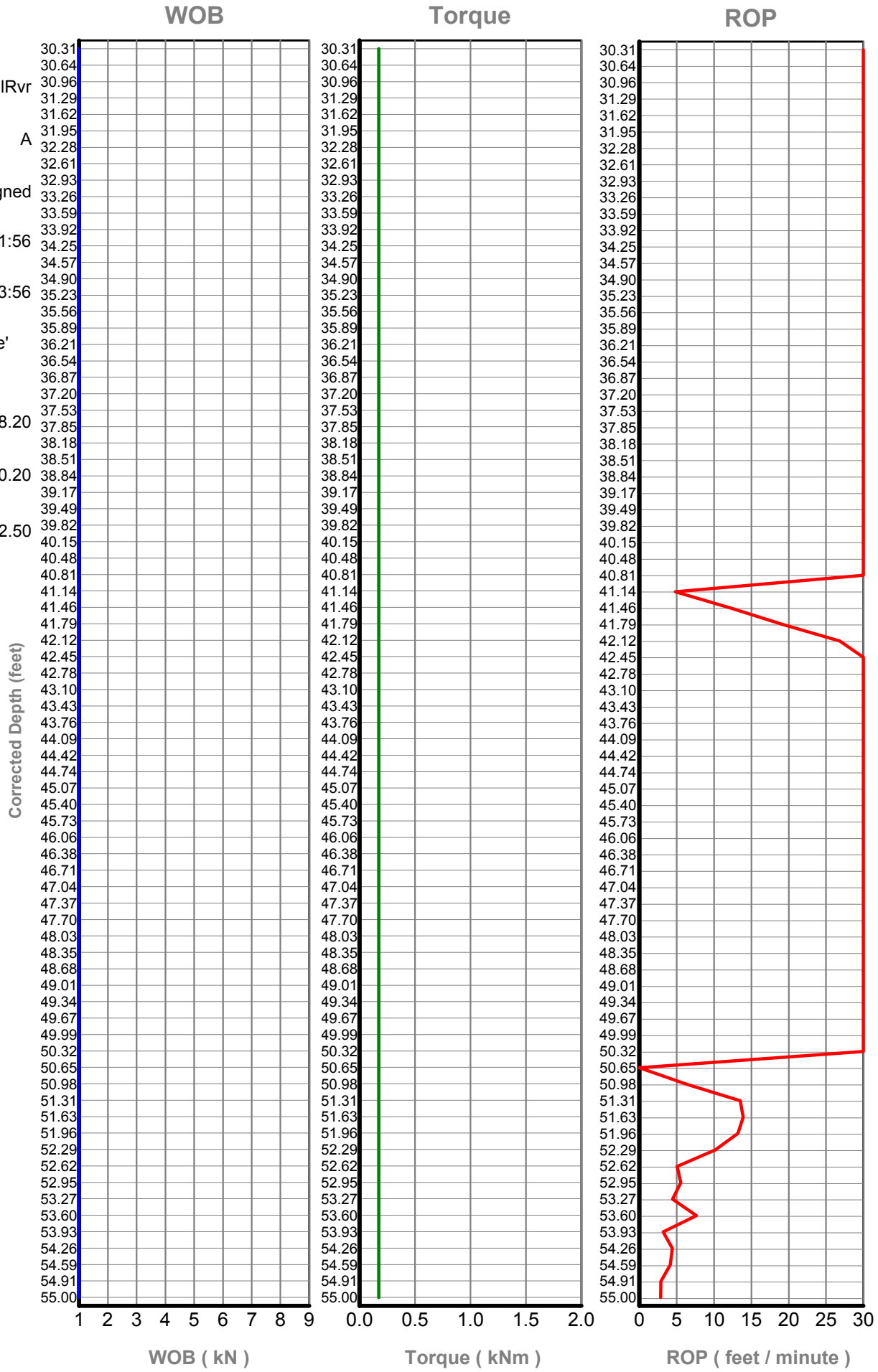
**End Date:**
5/2/2015 5:13:56

**Operator Note:**
'2.5 2.5 a Auto Complete'

**Northing:**
358,738.20

**Easting:**
240,090.20

**Tide (feet):**
2.50



## Hole: M62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:11:49 | 32.48 | 30.08 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:11:49 | 32.81 | 30.41 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:11:50 | 33.14 | 30.74 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:11:50 | 33.46 | 31.06 | 1,172 | 0.31 | 0.40 | 64.1 |
| 5/2/2015 5:11:50 | 33.79 | 31.39 | 1,172 | 0.31 | 0.40 | 64.1 |
| 5/2/2015 5:11:50 | 34.12 | 31.72 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/2/2015 5:11:51 | 34.45 | 32.05 | 1,174 | 0.30 | 0.38 | 64.2 |
| 5/2/2015 5:11:51 | 34.78 | 32.38 | 1,174 | 0.30 | 0.38 | 64.2 |
| 5/2/2015 5:11:51 | 35.11 | 32.71 | 1,171 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 5:11:52 | 35.43 | 33.03 | 1,171 | 0.31 | 0.38 | 64.0 |
| 5/2/2015 5:11:52 | 35.76 | 33.36 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/2/2015 5:11:52 | 36.09 | 33.69 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/2/2015 5:11:52 | 36.42 | 34.02 | 1,161 | 0.31 | 0.37 | 63.5 |
| 5/2/2015 5:11:53 | 36.75 | 34.35 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 5:11:53 | 37.07 | 34.67 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 5:11:53 | 37.40 | 35.00 | 1,162 | 0.30 | 0.36 | 63.5 |
| 5/2/2015 5:11:54 | 37.73 | 35.33 | 1,162 | 0.30 | 0.36 | 63.5 |
| 5/2/2015 5:11:54 | 38.06 | 35.66 | 1,168 | 0.31 | 0.37 | 63.9 |
| 5/2/2015 5:11:54 | 38.39 | 35.99 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 5:11:55 | 38.71 | 36.31 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 5:11:55 | 39.04 | 36.64 | 1,175 | 0.31 | 0.36 | 64.3 |
| 5/2/2015 5:11:55 | 39.37 | 36.97 | 1,175 | 0.31 | 0.36 | 64.3 |
| 5/2/2015 5:11:56 | 39.70 | 37.30 | 1,175 | 0.31 | 0.36 | 64.3 |
| 5/2/2015 5:11:56 | 40.03 | 37.63 | 1,175 | 0.31 | 0.36 | 64.3 |
| 5/2/2015 5:11:56 | 40.35 | 37.95 | 1,175 | 0.30 | 0.38 | 64.3 |
| 5/2/2015 5:11:57 | 40.68 | 38.28 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 5:11:57 | 41.01 | 38.61 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/2/2015 5:11:57 | 41.34 | 38.94 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/2/2015 5:11:58 | 41.67 | 39.27 | 1,172 | 0.31 | 0.37 | 64.1 |
| 5/2/2015 5:11:58 | 41.99 | 39.59 | 1,175 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:11:58 | 42.32 | 39.92 | 1,181 | 0.30 | 0.37 | 64.6 |
| 5/2/2015 5:11:59 | 42.65 | 40.25 | 1,181 | 0.30 | 0.37 | 64.6 |
| 5/2/2015 5:11:59 | 42.98 | 40.58 | 1,177 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 5:11:59 | 43.31 | 40.91 | 1,177 | 0.31 | 0.38 | 64.3 |
| 5/2/2015 5:11:59 | 43.64 | 41.24 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 5:12:00 | 43.96 | 41.56 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 5:12:00 | 44.29 | 41.89 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 5:12:00 | 44.62 | 42.22 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 5:12:01 | 44.95 | 42.55 | 1,179 | 0.31 | 0.37 | 64.5 |
| 5/2/2015 5:12:01 | 45.28 | 42.88 | 1,154 | 0.30 | 0.37 | 63.1 |
| 5/2/2015 5:12:01 | 45.60 | 43.20 | 1,154 | 0.30 | 0.37 | 63.1 |
| 5/2/2015 5:12:01 | 45.93 | 43.53 | 1,154 | 0.30 | 0.37 | 63.1 |
| 5/2/2015 5:12:02 | 46.26 | 43.86 | 1,164 | 0.30 | 0.38 | 63.7 |
| 5/2/2015 5:12:02 | 46.59 | 44.19 | 1,164 | 0.30 | 0.38 | 63.7 |
| 5/2/2015 5:12:02 | 46.92 | 44.52 | 1,170 | 0.27 | 0.38 | 64.0 |
| 5/2/2015 5:12:03 | 47.24 | 44.84 | 1,170 | 0.27 | 0.38 | 64.0 |
| 5/2/2015 5:12:03 | 47.57 | 45.17 | 1,167 | 0.30 | 0.37 | 63.8 |
| 5/2/2015 5:12:03 | 47.90 | 45.50 | 1,167 | 0.30 | 0.37 | 63.8 |
| 5/2/2015 5:12:03 | 48.23 | 45.83 | 1,175 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:12:04 | 48.56 | 46.16 | 1,181 | 0.30 | 0.37 | 64.6 |
| 5/2/2015 5:12:04 | 48.88 | 46.48 | 1,181 | 0.30 | 0.37 | 64.6 |
| 5/2/2015 5:12:04 | 49.21 | 46.81 | 1,180 | 0.30 | 0.37 | 64.5 |
| 5/2/2015 5:12:05 | 49.54 | 47.14 | 1,180 | 0.30 | 0.37 | 64.5 |
| 5/2/2015 5:12:05 | 49.87 | 47.47 | 1,177 | 0.30 | 0.38 | 64.4 |
| 5/2/2015 5:12:06 | 50.20 | 47.80 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/2/2015 5:12:06 | 50.53 | 48.13 | 1,168 | 0.30 | 0.37 | 63.9 |
| 5/2/2015 5:12:06 | 50.85 | 48.45 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 5:12:07 | 51.18 | 48.78 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 5:12:07 | 51.51 | 49.11 | 1,170 | 0.30 | 0.38 | 64.0 |
| 5/2/2015 5:12:07 | 51.84 | 49.44 | 1,148 | 0.31 | 0.37 | 62.8 |
| 5/2/2015 5:12:08 | 52.17 | 49.77 | 1,148 | 0.31 | 0.37 | 62.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:12:08 | 52.49 | 50.09 | 1,133 | 0.29 | 0.38 | 62.0 |
| 5/2/2015 | 5:12:08 | 52.82 | 50.42 | 1,133 | 0.29 | 0.38 | 62.0 |
| 5/2/2015 | 5:12:08 | 53.15 | 50.75 | 1,125 | 0.29 | 0.37 | 61.5 |
| 5/2/2015 | 5:12:09 | 53.48 | 51.08 | 1,107 | 0.29 | 0.40 | 60.6 |
| 5/2/2015 | 5:12:09 | 53.81 | 51.41 | 1,051 | 0.28 | 0.45 | 57.5 |
| 5/2/2015 | 5:12:14 | 54.13 | 51.73 | 55 | 2.71 | 0.44 | 3.0 |
| 5/2/2015 | 5:12:16 | 54.46 | 52.06 | 187 | 2.84 | 0.46 | 10.2 |
| 5/2/2015 | 5:12:18 | 54.79 | 52.39 | 222 | 2.68 | 0.44 | 12.1 |
| 5/2/2015 | 5:12:19 | 55.12 | 52.72 | 231 | 2.58 | 0.43 | 12.7 |
| 5/2/2015 | 5:12:21 | 55.45 | 53.05 | 211 | 2.85 | 0.46 | 11.5 |
| 5/2/2015 | 5:12:24 | 55.77 | 53.37 | 80 | 2.61 | 0.46 | 4.4 |
| 5/2/2015 | 5:12:28 | 56.10 | 53.70 | 126 | 2.49 | 0.44 | 6.9 |
| 5/2/2015 | 5:12:31 | 56.43 | 54.03 | 54 | 3.31 | 0.43 | 3.0 |
| 5/2/2015 | 5:12:32 | 56.76 | 54.36 | 158 | 3.03 | 0.43 | 8.7 |
| 5/2/2015 | 5:12:34 | 57.09 | 54.69 | 196 | 2.82 | 0.45 | 10.7 |
| 5/2/2015 | 5:12:42 | 57.41 | 55.01 | 31 | 2.65 | 0.44 | 1.7 |
| 5/2/2015 | 5:12:43 | 57.50 | 55.10 | 41 | 2.95 | 0.46 | 2.2 |

## M62 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:10:21

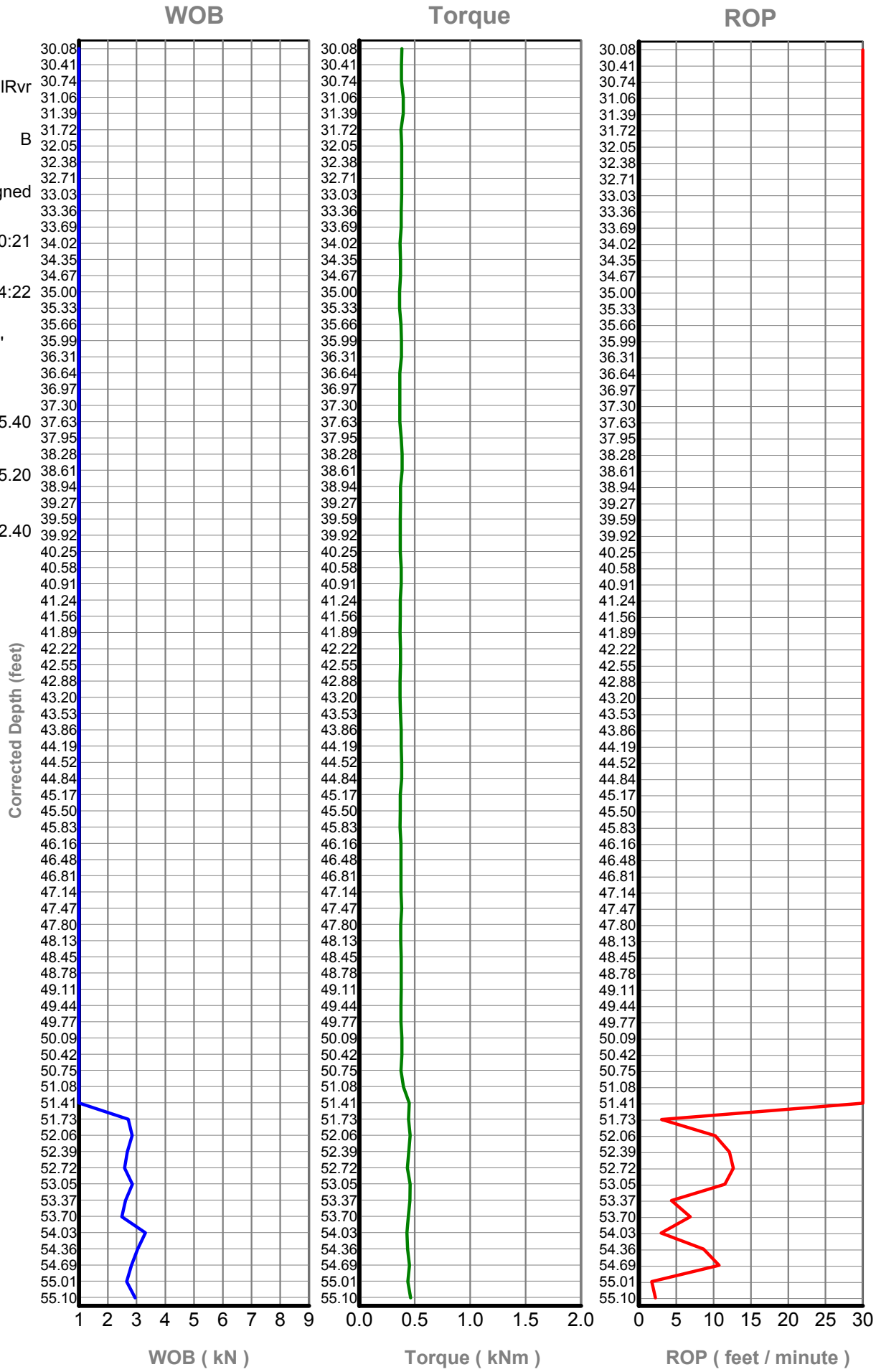
**End Date:**
5/2/2015 5:14:22

**Operator Note:**
'2.4 2.5b Auto Complete'

**Northing:**
358,775.40

**Easting:**
240,155.20

**Tide (feet):**
2.40



## Hole: M63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:10:11 | 32.48 | 30.08 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 5:10:11 | 32.81 | 30.41 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 5:10:12 | 33.14 | 30.74 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 5:10:12 | 33.46 | 31.06 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 5:10:12 | 33.79 | 31.39 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:10:13 | 34.12 | 31.72 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:10:13 | 34.45 | 32.05 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 5:10:13 | 34.78 | 32.38 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:14 | 35.11 | 32.71 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:14 | 35.43 | 33.03 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 5:10:14 | 35.76 | 33.36 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:15 | 36.09 | 33.69 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:15 | 36.42 | 34.02 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:15 | 36.75 | 34.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 5:10:16 | 37.07 | 34.67 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 5:10:16 | 37.40 | 35.00 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:10:16 | 37.73 | 35.33 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 5:10:17 | 38.06 | 35.66 | 1,043 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 5:10:17 | 38.39 | 35.99 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:10:17 | 38.71 | 36.31 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:10:18 | 39.04 | 36.64 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:10:18 | 39.37 | 36.97 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 5:10:19 | 39.70 | 37.30 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:10:19 | 40.03 | 37.63 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:10:19 | 40.35 | 37.95 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 5:10:20 | 40.68 | 38.28 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:10:20 | 41.01 | 38.61 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:10:20 | 41.34 | 38.94 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 5:10:21 | 41.67 | 39.27 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 5:10:21 | 41.99 | 39.59 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:21 | 42.32 | 39.92 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:22 | 42.65 | 40.25 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:22 | 42.98 | 40.58 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:22 | 43.31 | 40.91 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:23 | 43.64 | 41.24 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 5:10:23 | 43.96 | 41.56 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:10:23 | 44.29 | 41.89 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:24 | 44.62 | 42.22 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:24 | 44.95 | 42.55 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:10:24 | 45.28 | 42.88 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:10:25 | 45.60 | 43.20 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:10:25 | 45.93 | 43.53 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 5:10:25 | 46.26 | 43.86 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:26 | 46.59 | 44.19 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:26 | 46.92 | 44.52 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:10:26 | 47.24 | 44.84 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:10:27 | 47.57 | 45.17 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:10:27 | 47.90 | 45.50 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:10:27 | 48.23 | 45.83 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:28 | 48.56 | 46.16 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:28 | 48.88 | 46.48 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:28 | 49.21 | 46.81 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:29 | 49.54 | 47.14 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:10:29 | 49.87 | 47.47 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:10:29 | 50.20 | 47.80 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:10:30 | 50.53 | 48.13 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:10:31 | 50.85 | 48.45 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:10:31 | 51.18 | 48.78 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 5:10:38 | 51.51 | 49.11 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 5:10:39 | 51.84 | 49.44 | 123 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 5:10:43 | 52.17 | 49.77 | 91 | 1.14 | 0.29 | 5.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:10:48 | 52.49 | 50.09 | 72 | 1.14 | 0.29 | 3.9 |
| 5/2/2015 | 5:10:53 | 52.82 | 50.42 | 72 | 1.14 | 0.29 | 3.9 |
| 5/2/2015 | 5:10:58 | 53.15 | 50.75 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 5:11:04 | 53.48 | 51.08 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 5:11:10 | 53.81 | 51.41 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 5:11:15 | 54.13 | 51.73 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 5:11:21 | 54.46 | 52.06 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 5:11:26 | 54.79 | 52.39 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 5:11:32 | 55.12 | 52.72 | 61 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 5:11:38 | 55.45 | 53.05 | 64 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 | 5:11:43 | 55.77 | 53.37 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 5:11:49 | 56.10 | 53.70 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 5:11:54 | 56.43 | 54.03 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 5:11:58 | 56.76 | 54.36 | 76 | 1.14 | 0.29 | 4.1 |
| 5/2/2015 | 5:12:02 | 57.09 | 54.69 | 90 | 1.14 | 0.29 | 4.9 |
| 5/2/2015 | 5:12:07 | 57.41 | 55.01 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 5:12:09 | 57.59 | 55.19 | 109 | 1.14 | 0.29 | 6.0 |

## M63 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:09:16

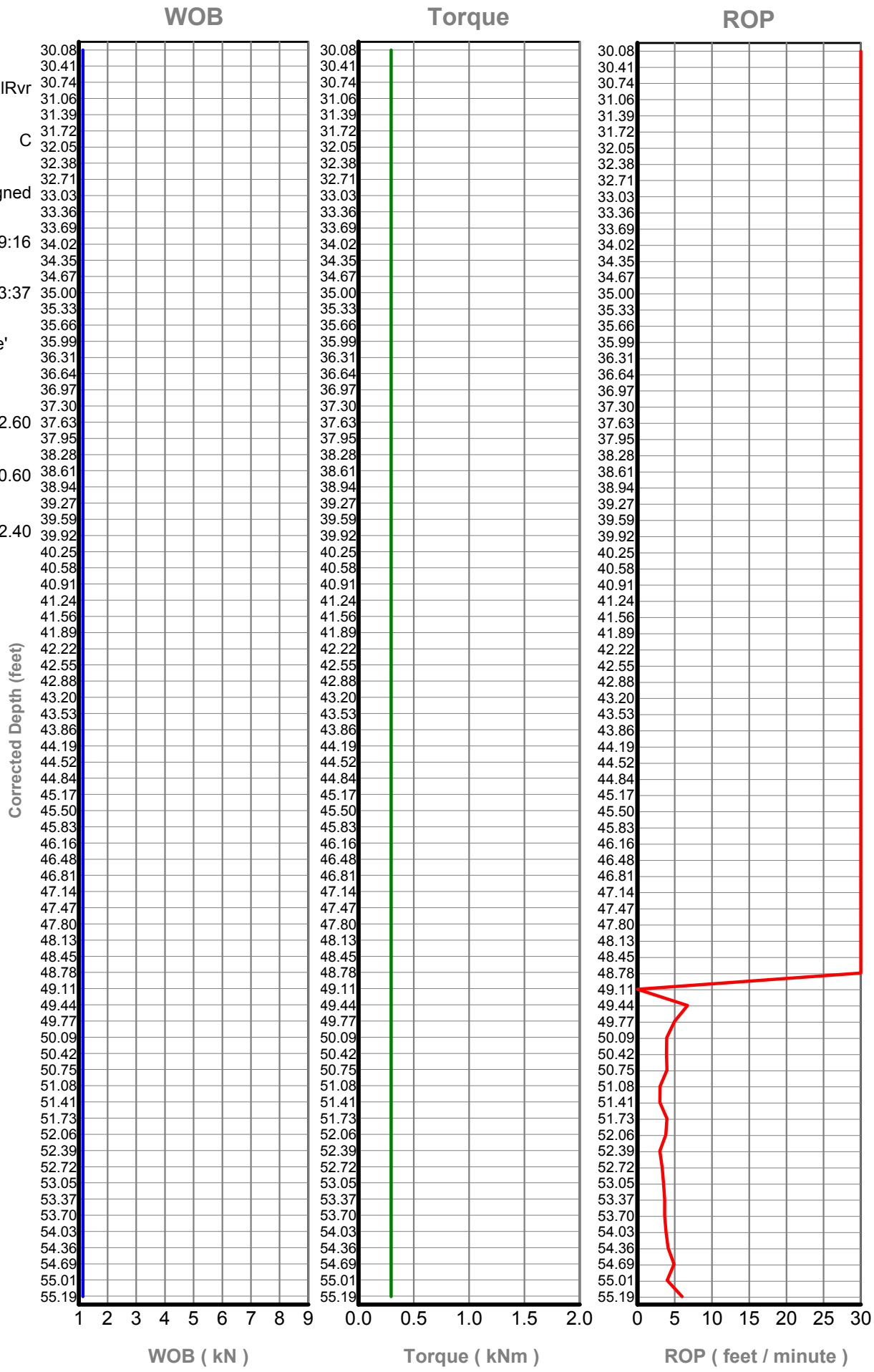
**End Date:**
5/2/2015 5:13:37

**Operator Note:**
'2.4 2.5 c Auto Complete'

**Northing:**
358,812.60

**Easting:**
240,220.60

**Tide (feet):**
2.40



## Hole: M64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:27:53 | 35.43 | 30.13 | 740 | 1.11 | 0.21 | 40.5 |
| 5/2/2015 2:27:54 | 35.76 | 30.46 | 737 | 1.12 | 0.20 | 40.3 |
| 5/2/2015 2:27:54 | 36.09 | 30.79 | 737 | 1.12 | 0.20 | 40.3 |
| 5/2/2015 2:27:54 | 36.42 | 31.12 | 734 | 1.13 | 0.21 | 40.2 |
| 5/2/2015 2:27:55 | 36.75 | 31.45 | 737 | 1.11 | 0.20 | 40.3 |
| 5/2/2015 2:27:55 | 37.07 | 31.77 | 733 | 1.11 | 0.20 | 40.1 |
| 5/2/2015 2:27:56 | 37.40 | 32.10 | 740 | 1.11 | 0.20 | 40.5 |
| 5/2/2015 2:27:56 | 37.73 | 32.43 | 740 | 1.10 | 0.20 | 40.5 |
| 5/2/2015 2:27:57 | 38.06 | 32.76 | 740 | 1.11 | 0.20 | 40.5 |
| 5/2/2015 2:27:57 | 38.39 | 33.09 | 740 | 1.11 | 0.20 | 40.5 |
| 5/2/2015 2:27:58 | 38.71 | 33.41 | 734 | 1.10 | 0.20 | 40.2 |
| 5/2/2015 2:27:58 | 39.04 | 33.74 | 734 | 1.11 | 0.20 | 40.2 |
| 5/2/2015 2:27:59 | 39.37 | 34.07 | 734 | 1.12 | 0.20 | 40.1 |
| 5/2/2015 2:28:00 | 39.70 | 34.40 | 734 | 1.12 | 0.20 | 40.1 |
| 5/2/2015 2:28:00 | 40.03 | 34.73 | 737 | 1.12 | 0.21 | 40.3 |
| 5/2/2015 2:28:01 | 40.35 | 35.05 | 734 | 1.11 | 0.20 | 40.1 |
| 5/2/2015 2:28:01 | 40.68 | 35.38 | 734 | 1.11 | 0.20 | 40.1 |
| 5/2/2015 2:28:01 | 41.01 | 35.71 | 744 | 1.14 | 0.22 | 40.7 |
| 5/2/2015 2:28:02 | 41.34 | 36.04 | 734 | 1.12 | 0.20 | 40.2 |
| 5/2/2015 2:28:02 | 41.67 | 36.37 | 737 | 1.12 | 0.20 | 40.3 |
| 5/2/2015 2:28:03 | 41.99 | 36.69 | 731 | 1.11 | 0.20 | 40.0 |
| 5/2/2015 2:28:03 | 42.32 | 37.02 | 734 | 1.11 | 0.20 | 40.1 |
| 5/2/2015 2:28:04 | 42.65 | 37.35 | 727 | 1.12 | 0.20 | 39.7 |
| 5/2/2015 2:28:04 | 42.98 | 37.68 | 734 | 1.13 | 0.20 | 40.1 |
| 5/2/2015 2:28:05 | 43.31 | 38.01 | 736 | 1.11 | 0.21 | 40.2 |
| 5/2/2015 2:28:05 | 43.64 | 38.34 | 734 | 1.13 | 0.20 | 40.2 |
| 5/2/2015 2:28:06 | 43.96 | 38.66 | 734 | 1.09 | 0.20 | 40.2 |
| 5/2/2015 2:28:06 | 44.29 | 38.99 | 742 | 1.12 | 0.20 | 40.6 |
| 5/2/2015 2:28:07 | 44.62 | 39.32 | 737 | 1.13 | 0.20 | 40.3 |
| 5/2/2015 2:28:07 | 44.95 | 39.65 | 734 | 1.12 | 0.20 | 40.1 |
| 5/2/2015 2:28:08 | 45.28 | 39.98 | 730 | 1.12 | 0.20 | 39.9 |
| 5/2/2015 2:28:08 | 45.60 | 40.30 | 730 | 1.12 | 0.20 | 39.9 |
| 5/2/2015 2:28:08 | 45.93 | 40.63 | 731 | 1.12 | 0.20 | 40.0 |
| 5/2/2015 2:28:09 | 46.26 | 40.96 | 731 | 1.12 | 0.20 | 40.0 |
| 5/2/2015 2:28:10 | 46.59 | 41.29 | 729 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:28:10 | 46.92 | 41.62 | 724 | 1.12 | 0.20 | 39.6 |
| 5/2/2015 2:28:11 | 47.24 | 41.94 | 733 | 1.11 | 0.20 | 40.1 |
| 5/2/2015 2:28:11 | 47.57 | 42.27 | 729 | 1.13 | 0.20 | 39.8 |
| 5/2/2015 2:28:12 | 47.90 | 42.60 | 729 | 1.15 | 0.20 | 39.8 |
| 5/2/2015 2:28:12 | 48.23 | 42.93 | 729 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:28:13 | 48.56 | 43.26 | 731 | 1.12 | 0.20 | 40.0 |
| 5/2/2015 2:28:13 | 48.88 | 43.58 | 728 | 1.12 | 0.20 | 39.8 |
| 5/2/2015 2:28:14 | 49.21 | 43.91 | 728 | 1.11 | 0.21 | 39.8 |
| 5/2/2015 2:28:14 | 49.54 | 44.24 | 724 | 1.13 | 0.20 | 39.6 |
| 5/2/2015 2:28:15 | 49.87 | 44.57 | 731 | 1.12 | 0.20 | 40.0 |
| 5/2/2015 2:28:15 | 50.20 | 44.90 | 728 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:28:16 | 50.53 | 45.23 | 728 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:28:16 | 50.85 | 45.55 | 726 | 1.11 | 0.20 | 39.7 |
| 5/2/2015 2:28:17 | 51.18 | 45.88 | 723 | 1.12 | 0.20 | 39.5 |
| 5/2/2015 2:28:17 | 51.51 | 46.21 | 723 | 1.12 | 0.20 | 39.5 |
| 5/2/2015 2:28:17 | 51.84 | 46.54 | 717 | 1.13 | 0.20 | 39.2 |
| 5/2/2015 2:28:18 | 52.17 | 46.87 | 714 | 1.13 | 0.20 | 39.0 |
| 5/2/2015 2:28:18 | 52.49 | 47.19 | 707 | 1.13 | 0.20 | 38.6 |
| 5/2/2015 2:28:19 | 52.82 | 47.52 | 705 | 1.11 | 0.20 | 38.6 |
| 5/2/2015 2:28:19 | 53.15 | 47.85 | 694 | 1.11 | 0.20 | 37.9 |
| 5/2/2015 2:28:20 | 53.48 | 48.18 | 688 | 1.11 | 0.20 | 37.6 |
| 5/2/2015 2:28:21 | 53.81 | 48.51 | 671 | 1.11 | 0.20 | 36.7 |
| 5/2/2015 2:28:22 | 54.13 | 48.83 | 659 | 1.16 | 0.19 | 36.0 |
| 5/2/2015 2:28:29 | 54.46 | 49.16 | 76 | 1.08 | 1.25 | 4.1 |
| 5/2/2015 2:28:31 | 54.79 | 49.49 | 220 | 1.02 | 1.41 | 12.1 |
| 5/2/2015 2:28:32 | 55.12 | 49.82 | 237 | 1.13 | 1.14 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:28:33 | 55.45 | 50.15 | 263 | 1.01 | 1.12 | 14.4 |
| 5/2/2015 | 2:28:34 | 55.77 | 50.47 | 362 | 1.10 | 1.30 | 19.8 |
| 5/2/2015 | 2:28:35 | 56.10 | 50.80 | 420 | 1.12 | 1.03 | 22.9 |
| 5/2/2015 | 2:28:35 | 56.43 | 51.13 | 437 | 1.13 | 1.11 | 23.9 |
| 5/2/2015 | 2:28:36 | 56.76 | 51.46 | 416 | 1.13 | 1.05 | 22.7 |
| 5/2/2015 | 2:28:37 | 57.09 | 51.79 | 402 | 1.13 | 1.20 | 22.0 |
| 5/2/2015 | 2:28:38 | 57.41 | 52.11 | 315 | 1.22 | 1.13 | 17.2 |
| 5/2/2015 | 2:28:39 | 57.74 | 52.44 | 344 | 1.12 | 1.02 | 18.8 |
| 5/2/2015 | 2:28:40 | 58.07 | 52.77 | 358 | 1.16 | 1.04 | 19.6 |
| 5/2/2015 | 2:28:42 | 58.40 | 53.10 | 374 | 1.13 | 1.33 | 20.4 |
| 5/2/2015 | 2:28:44 | 58.73 | 53.43 | 194 | 1.17 | 1.27 | 10.6 |
| 5/2/2015 | 2:28:45 | 59.06 | 53.76 | 211 | 1.13 | 1.48 | 11.5 |
| 5/2/2015 | 2:28:47 | 59.38 | 54.08 | 214 | 1.17 | 1.32 | 11.7 |
| 5/2/2015 | 2:28:49 | 59.71 | 54.41 | 191 | 1.15 | 1.10 | 10.4 |
| 5/2/2015 | 2:28:52 | 60.04 | 54.74 | 132 | 1.11 | 1.27 | 7.2 |
| 5/2/2015 | 2:28:53 | 60.37 | 55.07 | 146 | 1.05 | 1.34 | 8.0 |
| 5/2/2015 | 2:28:54 | 60.70 | 55.40 | 171 | 1.13 | 1.20 | 9.4 |
| 5/2/2015 | 2:28:55 | 61.02 | 55.72 | 232 | 1.34 | 1.53 | 12.7 |
| 5/2/2015 | 2:28:55 | 61.06 | 55.76 | 273 | 1.21 | 1.38 | 14.9 |

## M64 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:18:51

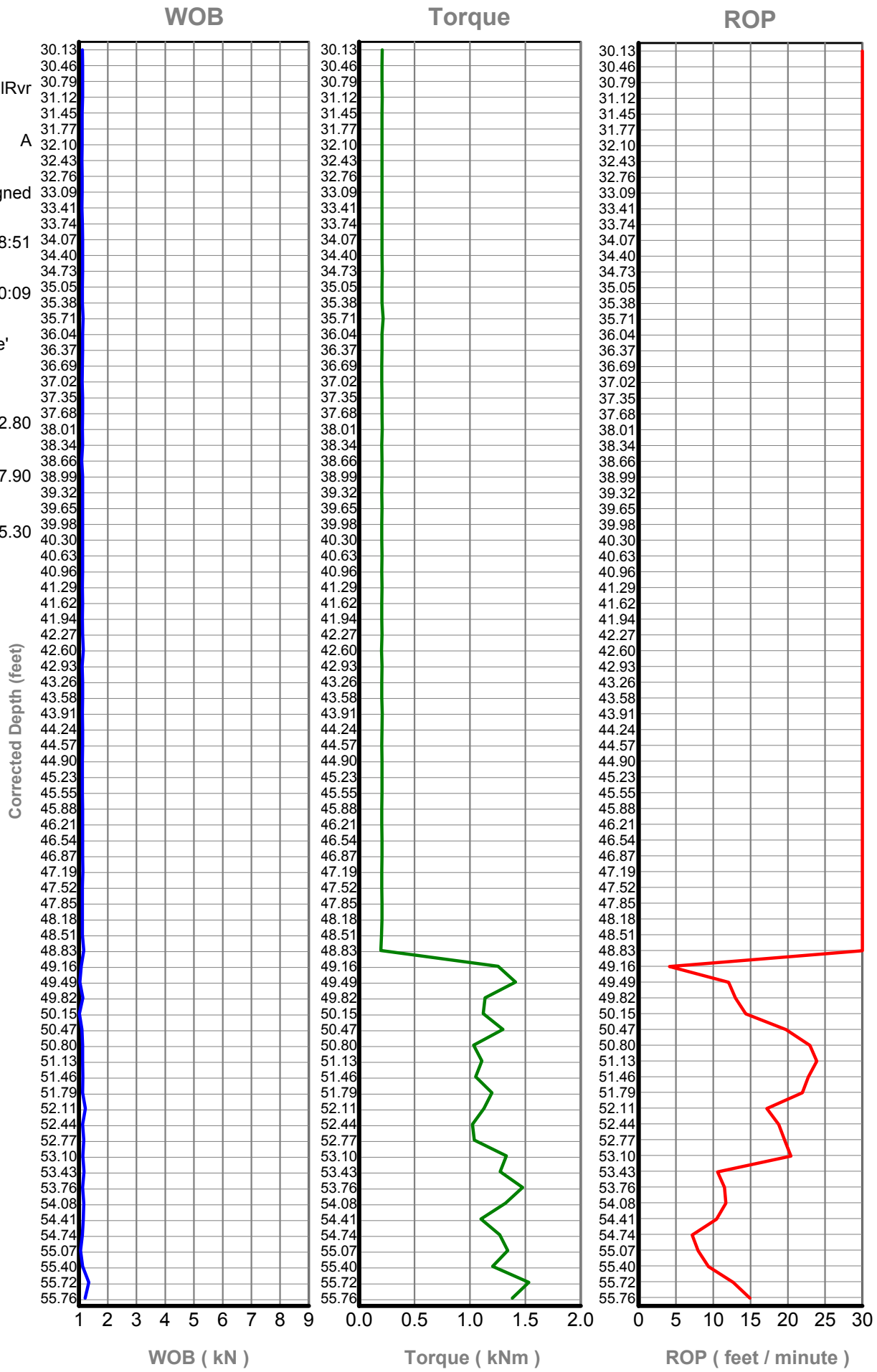
**End Date:**
5/2/2015 2:30:09

**Operator Note:**
'5.3 5.6 a Auto Complete'

**Northing:**
358,852.80

**Easting:**
240,277.90

**Tide (feet):**
5.30



## Hole: M65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:26:59 | 35.43 | 30.13 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 2:27:00 | 35.76 | 30.46 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 2:27:00 | 36.09 | 30.79 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 2:27:00 | 36.42 | 31.12 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 2:27:00 | 36.75 | 31.45 | 1,159 | 0.28 | 0.37 | 63.4 |
| 5/2/2015 2:27:01 | 37.07 | 31.77 | 1,153 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 2:27:01 | 37.40 | 32.10 | 1,153 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 2:27:01 | 37.73 | 32.43 | 1,156 | 0.33 | 0.40 | 63.2 |
| 5/2/2015 2:27:02 | 38.06 | 32.76 | 1,156 | 0.33 | 0.40 | 63.2 |
| 5/2/2015 2:27:02 | 38.39 | 33.09 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 2:27:03 | 38.71 | 33.41 | 1,156 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 2:27:03 | 39.04 | 33.74 | 1,152 | 0.33 | 0.38 | 63.0 |
| 5/2/2015 2:27:03 | 39.37 | 34.07 | 1,155 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 2:27:04 | 39.70 | 34.40 | 1,155 | 0.33 | 0.38 | 63.2 |
| 5/2/2015 2:27:04 | 40.03 | 34.73 | 1,164 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 2:27:04 | 40.35 | 35.05 | 1,164 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 2:27:04 | 40.68 | 35.38 | 1,171 | 0.33 | 0.38 | 64.0 |
| 5/2/2015 2:27:05 | 41.01 | 35.71 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:05 | 41.34 | 36.04 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:05 | 41.67 | 36.37 | 1,168 | 0.33 | 0.37 | 63.9 |
| 5/2/2015 2:27:06 | 41.99 | 36.69 | 1,168 | 0.33 | 0.37 | 63.9 |
| 5/2/2015 2:27:06 | 42.32 | 37.02 | 1,178 | 0.33 | 0.38 | 64.4 |
| 5/2/2015 2:27:06 | 42.65 | 37.35 | 1,178 | 0.33 | 0.38 | 64.4 |
| 5/2/2015 2:27:06 | 42.98 | 37.68 | 1,175 | 0.33 | 0.38 | 64.3 |
| 5/2/2015 2:27:07 | 43.31 | 38.01 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/2/2015 2:27:07 | 43.64 | 38.34 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/2/2015 2:27:07 | 43.96 | 38.66 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:08 | 44.29 | 38.99 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:08 | 44.62 | 39.32 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/2/2015 2:27:08 | 44.95 | 39.65 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:09 | 45.28 | 39.98 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:27:09 | 45.60 | 40.30 | 1,146 | 0.35 | 0.37 | 62.7 |
| 5/2/2015 2:27:09 | 45.93 | 40.63 | 1,146 | 0.35 | 0.37 | 62.7 |
| 5/2/2015 2:27:09 | 46.26 | 40.96 | 1,146 | 0.31 | 0.37 | 62.7 |
| 5/2/2015 2:27:10 | 46.59 | 41.29 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/2/2015 2:27:10 | 46.92 | 41.62 | 1,156 | 0.33 | 0.37 | 63.2 |
| 5/2/2015 2:27:10 | 47.24 | 41.94 | 1,157 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:27:11 | 47.57 | 42.27 | 1,157 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:27:11 | 47.90 | 42.60 | 1,161 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:27:11 | 48.23 | 42.93 | 1,161 | 0.33 | 0.37 | 63.5 |
| 5/2/2015 2:27:11 | 48.56 | 43.26 | 1,154 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 2:27:12 | 48.88 | 43.58 | 1,181 | 0.32 | 0.39 | 64.6 |
| 5/2/2015 2:27:12 | 49.21 | 43.91 | 1,181 | 0.32 | 0.39 | 64.6 |
| 5/2/2015 2:27:12 | 49.54 | 44.24 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 2:27:13 | 49.87 | 44.57 | 1,174 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 2:27:13 | 50.20 | 44.90 | 1,174 | 0.33 | 0.37 | 64.2 |
| 5/2/2015 2:27:14 | 50.53 | 45.23 | 1,167 | 0.32 | 0.38 | 63.8 |
| 5/2/2015 2:27:14 | 50.85 | 45.55 | 1,167 | 0.32 | 0.38 | 63.8 |
| 5/2/2015 2:27:14 | 51.18 | 45.88 | 1,176 | 0.33 | 0.38 | 64.3 |
| 5/2/2015 2:27:15 | 51.51 | 46.21 | 1,176 | 0.33 | 0.38 | 64.3 |
| 5/2/2015 2:27:15 | 51.84 | 46.54 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/2/2015 2:27:15 | 52.17 | 46.87 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:27:16 | 52.49 | 47.19 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:27:16 | 52.82 | 47.52 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:27:16 | 53.15 | 47.85 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:27:16 | 53.48 | 48.18 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/2/2015 2:27:17 | 53.81 | 48.51 | 1,116 | 0.32 | 0.39 | 61.0 |
| 5/2/2015 2:27:17 | 54.13 | 48.83 | 1,116 | 0.32 | 0.39 | 61.0 |
| 5/2/2015 2:27:22 | 54.46 | 49.16 | 15 | 3.74 | 0.45 | 0.8 |
| 5/2/2015 2:27:25 | 54.79 | 49.49 | 104 | 3.95 | 0.47 | 5.7 |
| 5/2/2015 2:27:32 | 55.12 | 49.82 | 103 | 3.59 | 0.46 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:27:35 | 55.45 | 50.15 | 96 | 3.80 | 0.46 | 5.2 |
| 5/2/2015 | 2:27:40 | 55.77 | 50.47 | 75 | 3.56 | 0.46 | 4.1 |
| 5/2/2015 | 2:27:45 | 56.10 | 50.80 | 72 | 3.31 | 0.47 | 4.0 |
| 5/2/2015 | 2:27:49 | 56.43 | 51.13 | 89 | 3.97 | 0.46 | 4.9 |
| 5/2/2015 | 2:27:52 | 56.76 | 51.46 | 125 | 3.71 | 0.46 | 6.8 |
| 5/2/2015 | 2:27:55 | 57.09 | 51.79 | 113 | 3.63 | 0.47 | 6.2 |
| 5/2/2015 | 2:27:58 | 57.41 | 52.11 | 136 | 3.61 | 0.47 | 7.4 |
| 5/2/2015 | 2:28:01 | 57.74 | 52.44 | 113 | 3.69 | 0.46 | 6.2 |
| 5/2/2015 | 2:28:03 | 58.07 | 52.77 | 141 | 3.81 | 0.46 | 7.7 |
| 5/2/2015 | 2:28:08 | 58.40 | 53.10 | 85 | 3.79 | 0.47 | 4.7 |
| 5/2/2015 | 2:28:13 | 58.73 | 53.43 | 64 | 3.69 | 0.47 | 3.5 |
| 5/2/2015 | 2:28:19 | 59.06 | 53.76 | 70 | 3.71 | 0.47 | 3.8 |
| 5/2/2015 | 2:28:23 | 59.38 | 54.08 | 72 | 4.08 | 0.46 | 3.9 |
| 5/2/2015 | 2:28:28 | 59.71 | 54.41 | 84 | 3.63 | 0.46 | 4.6 |
| 5/2/2015 | 2:28:32 | 60.04 | 54.74 | 92 | 4.15 | 0.46 | 5.0 |
| 5/2/2015 | 2:28:33 | 60.37 | 55.07 | 148 | 3.59 | 0.46 | 8.1 |
| 5/2/2015 | 2:28:34 | 60.56 | 55.26 | 198 | 3.77 | 0.47 | 10.8 |

## M65 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:25:25

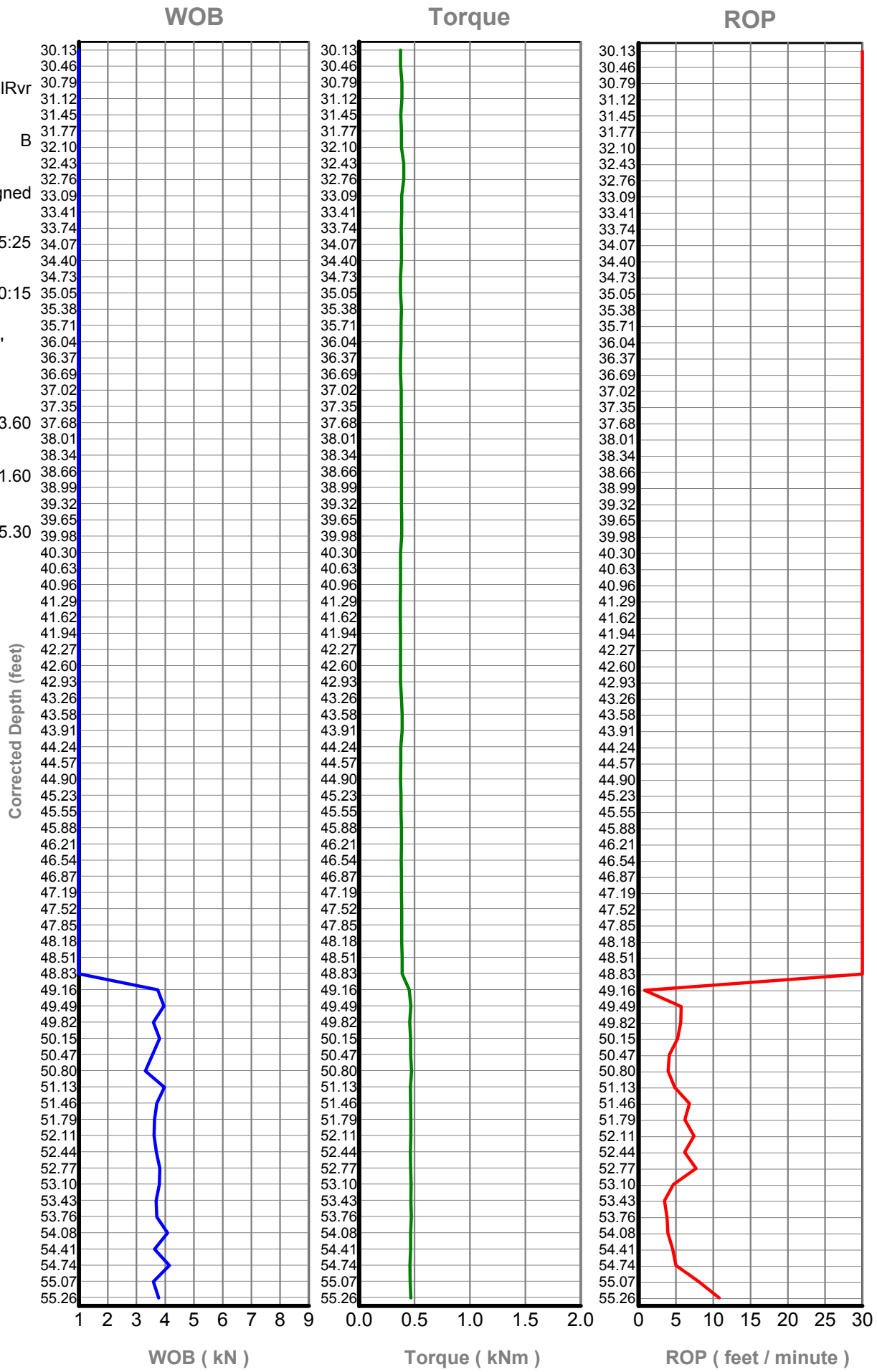
**End Date:**
5/2/2015 2:30:15

**Operator Note:**
'5.3 5.6b Auto Complete'

**Northing:**
358,893.60

**Easting:**
240,341.60

**Tide (feet):**
5.30



## Hole: M66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:25:43 | 35.43 | 30.13 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 2:25:43 | 35.76 | 30.46 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 2:25:43 | 36.09 | 30.79 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:44 | 36.42 | 31.12 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:25:44 | 36.75 | 31.45 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:25:44 | 37.07 | 31.77 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:45 | 37.40 | 32.10 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:45 | 37.73 | 32.43 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:45 | 38.06 | 32.76 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:46 | 38.39 | 33.09 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:46 | 38.71 | 33.41 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:46 | 39.04 | 33.74 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 2:25:47 | 39.37 | 34.07 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:47 | 39.70 | 34.40 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:47 | 40.03 | 34.73 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:48 | 40.35 | 35.05 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:48 | 40.68 | 35.38 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:48 | 41.01 | 35.71 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:49 | 41.34 | 36.04 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:49 | 41.67 | 36.37 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:49 | 41.99 | 36.69 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:50 | 42.32 | 37.02 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:50 | 42.65 | 37.35 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:50 | 42.98 | 37.68 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:51 | 43.31 | 38.01 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:51 | 43.64 | 38.34 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:25:51 | 43.96 | 38.66 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:52 | 44.29 | 38.99 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:52 | 44.62 | 39.32 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:25:52 | 44.95 | 39.65 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:53 | 45.28 | 39.98 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:25:54 | 45.60 | 40.30 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:25:54 | 45.93 | 40.63 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:54 | 46.26 | 40.96 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:25:55 | 46.59 | 41.29 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:25:55 | 46.92 | 41.62 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:25:55 | 47.24 | 41.94 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:56 | 47.57 | 42.27 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:56 | 47.90 | 42.60 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:56 | 48.23 | 42.93 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:57 | 48.56 | 43.26 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:57 | 48.88 | 43.58 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:25:57 | 49.21 | 43.91 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:25:58 | 49.54 | 44.24 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:25:58 | 49.87 | 44.57 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:25:58 | 50.20 | 44.90 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:59 | 50.53 | 45.23 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 2:25:59 | 50.85 | 45.55 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:25:59 | 51.18 | 45.88 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:26:00 | 51.51 | 46.21 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:26:00 | 51.84 | 46.54 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:26:00 | 52.17 | 46.87 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:26:01 | 52.49 | 47.19 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:26:01 | 52.82 | 47.52 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 2:26:01 | 53.15 | 47.85 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:26:02 | 53.48 | 48.18 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 2:26:02 | 53.81 | 48.51 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 2:26:02 | 54.13 | 48.83 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 2:26:11 | 54.46 | 49.16 | 82 | 1.14 | 0.29 | 4.5 |
| 5/2/2015 2:26:18 | 54.79 | 49.49 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 2:26:24 | 55.12 | 49.82 | 50 | 1.14 | 0.29 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:26:31 | 55.45 | 50.15 | 52 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 2:26:38 | 55.77 | 50.47 | 41 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 | 2:26:40 | 56.10 | 50.80 | 116 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 | 2:26:42 | 56.43 | 51.13 | 266 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 | 2:26:42 | 56.76 | 51.46 | 266 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 | 2:26:46 | 57.09 | 51.79 | 76 | 1.14 | 0.29 | 4.1 |
| 5/2/2015 | 2:26:51 | 57.41 | 52.11 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 2:26:56 | 57.74 | 52.44 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 2:27:02 | 58.07 | 52.77 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 2:27:08 | 58.40 | 53.10 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 2:27:17 | 58.73 | 53.43 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 2:27:18 | 58.81 | 53.51 | 50 | 1.14 | 0.29 | 2.7 |

## M66 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:24:32

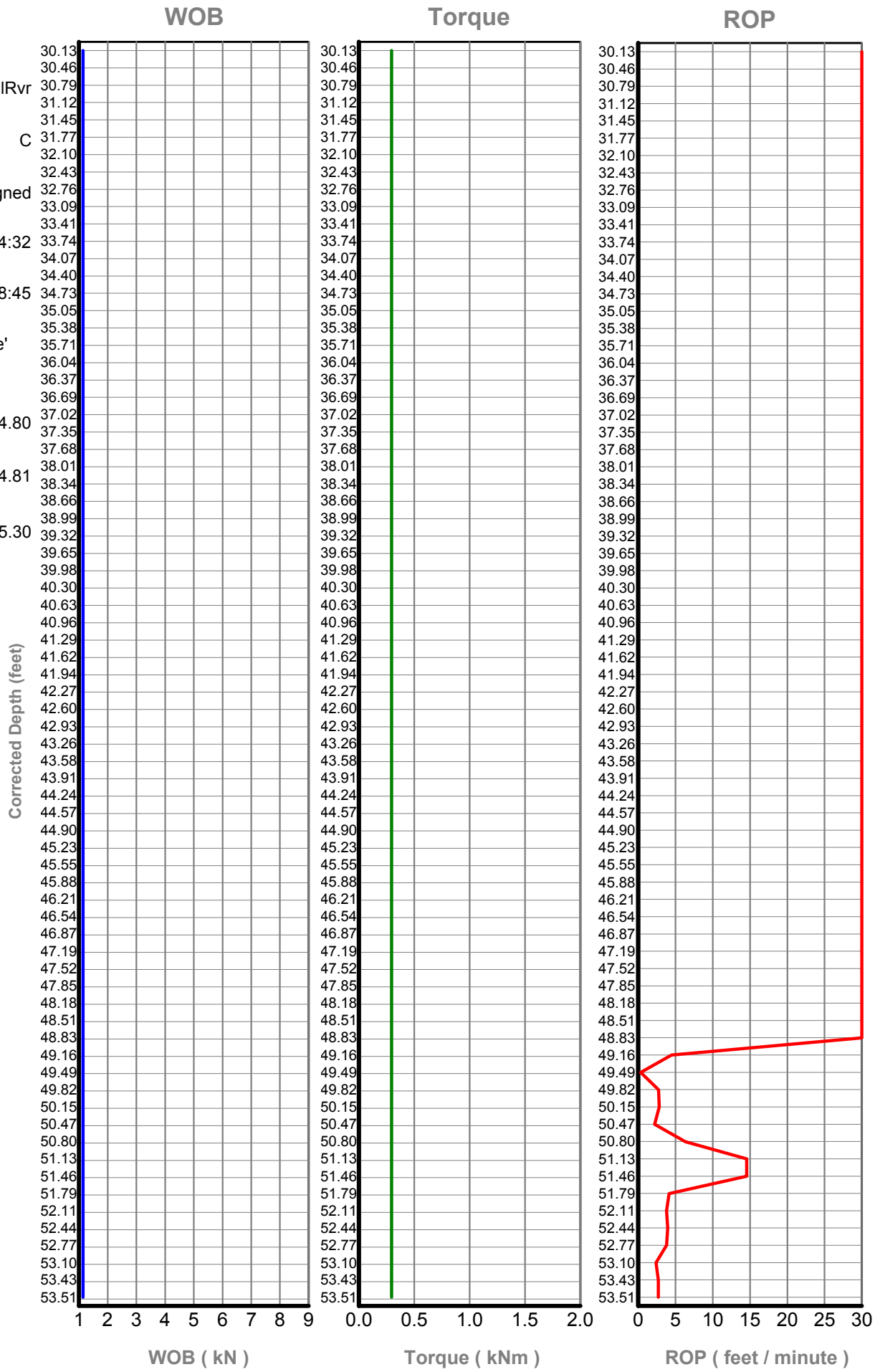
**End Date:**
5/2/2015 2:28:45

**Operator Note:**
'5.3 5.6 c Auto Complete'

**Northing:**
358,934.80

**Easting:**
240,404.81

**Tide (feet):**
5.30



## Hole: M67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:03:51 | 36.75 | 30.05 | 1,259 | 1.86 | 0.80 | 68.8 |
| 5/2/2015 1:03:51 | 37.07 | 30.37 | 1,259 | 1.86 | 0.80 | 68.8 |
| 5/2/2015 1:03:51 | 37.40 | 30.70 | 1,251 | 1.88 | 0.81 | 68.4 |
| 5/2/2015 1:03:52 | 37.73 | 31.03 | 1,251 | 1.88 | 0.81 | 68.4 |
| 5/2/2015 1:03:52 | 38.06 | 31.36 | 1,294 | 1.87 | 0.82 | 70.8 |
| 5/2/2015 1:03:52 | 38.39 | 31.69 | 1,294 | 1.87 | 0.82 | 70.8 |
| 5/2/2015 1:03:52 | 38.71 | 32.01 | 1,269 | 1.88 | 0.81 | 69.4 |
| 5/2/2015 1:03:53 | 39.04 | 32.34 | 1,269 | 1.88 | 0.81 | 69.4 |
| 5/2/2015 1:03:53 | 39.37 | 32.67 | 1,258 | 1.88 | 0.80 | 68.8 |
| 5/2/2015 1:03:53 | 39.70 | 33.00 | 1,258 | 1.88 | 0.80 | 68.8 |
| 5/2/2015 1:03:53 | 40.03 | 33.33 | 1,258 | 1.79 | 0.80 | 68.8 |
| 5/2/2015 1:03:54 | 40.35 | 33.65 | 1,264 | 1.35 | 0.82 | 69.1 |
| 5/2/2015 1:03:54 | 40.68 | 33.98 | 1,264 | 1.35 | 0.82 | 69.1 |
| 5/2/2015 1:03:54 | 41.01 | 34.31 | 1,247 | 1.40 | 0.82 | 68.2 |
| 5/2/2015 1:03:55 | 41.34 | 34.64 | 907 | 1.21 | 0.81 | 49.6 |
| 5/2/2015 1:03:56 | 41.67 | 34.97 | 780 | 1.21 | 0.83 | 42.7 |
| 5/2/2015 1:03:56 | 41.99 | 35.29 | 643 | 1.22 | 0.83 | 35.2 |
| 5/2/2015 1:03:57 | 42.32 | 35.62 | 643 | 1.23 | 0.82 | 35.2 |
| 5/2/2015 1:03:57 | 42.65 | 35.95 | 548 | 1.22 | 0.81 | 30.0 |
| 5/2/2015 1:03:58 | 42.98 | 36.28 | 548 | 1.22 | 0.81 | 30.0 |
| 5/2/2015 1:03:58 | 43.31 | 36.61 | 561 | 1.25 | 0.83 | 30.7 |
| 5/2/2015 1:03:59 | 43.64 | 36.94 | 645 | 1.23 | 0.82 | 35.3 |
| 5/2/2015 1:03:59 | 43.96 | 37.26 | 645 | 1.22 | 0.82 | 35.3 |
| 5/2/2015 1:04:00 | 44.29 | 37.59 | 648 | 1.21 | 0.82 | 35.4 |
| 5/2/2015 1:04:01 | 44.62 | 37.92 | 648 | 1.22 | 0.83 | 35.4 |
| 5/2/2015 1:04:01 | 44.95 | 38.25 | 653 | 1.22 | 0.83 | 35.7 |
| 5/2/2015 1:04:02 | 45.28 | 38.58 | 658 | 1.22 | 0.81 | 36.0 |
| 5/2/2015 1:04:02 | 45.60 | 38.90 | 659 | 1.22 | 0.83 | 36.0 |
| 5/2/2015 1:04:03 | 45.93 | 39.23 | 655 | 1.22 | 0.82 | 35.8 |
| 5/2/2015 1:04:04 | 46.26 | 39.56 | 657 | 1.22 | 0.82 | 35.9 |
| 5/2/2015 1:04:04 | 46.59 | 39.89 | 659 | 1.21 | 0.81 | 36.0 |
| 5/2/2015 1:04:05 | 46.92 | 40.22 | 647 | 1.22 | 0.82 | 35.4 |
| 5/2/2015 1:04:05 | 47.24 | 40.54 | 640 | 1.22 | 0.83 | 35.0 |
| 5/2/2015 1:04:06 | 47.57 | 40.87 | 640 | 1.21 | 0.82 | 35.0 |
| 5/2/2015 1:04:06 | 47.90 | 41.20 | 643 | 1.22 | 0.82 | 35.2 |
| 5/2/2015 1:04:07 | 48.23 | 41.53 | 643 | 1.22 | 0.81 | 35.2 |
| 5/2/2015 1:04:07 | 48.56 | 41.86 | 645 | 1.22 | 0.83 | 35.3 |
| 5/2/2015 1:04:08 | 48.88 | 42.18 | 632 | 1.23 | 0.82 | 34.6 |
| 5/2/2015 1:04:08 | 49.21 | 42.51 | 632 | 1.22 | 0.81 | 34.6 |
| 5/2/2015 1:04:09 | 49.54 | 42.84 | 646 | 1.21 | 0.82 | 35.3 |
| 5/2/2015 1:04:09 | 49.87 | 43.17 | 649 | 1.23 | 0.80 | 35.5 |
| 5/2/2015 1:04:10 | 50.20 | 43.50 | 653 | 1.22 | 0.83 | 35.7 |
| 5/2/2015 1:04:10 | 50.53 | 43.83 | 640 | 1.10 | 0.82 | 35.0 |
| 5/2/2015 1:04:11 | 50.85 | 44.15 | 659 | 1.09 | 0.78 | 36.1 |
| 5/2/2015 1:04:12 | 51.18 | 44.48 | 662 | 1.13 | 0.78 | 36.2 |
| 5/2/2015 1:04:12 | 51.51 | 44.81 | 665 | 1.13 | 0.78 | 36.4 |
| 5/2/2015 1:04:13 | 51.84 | 45.14 | 667 | 1.09 | 0.77 | 36.5 |
| 5/2/2015 1:04:13 | 52.17 | 45.47 | 682 | 1.11 | 0.78 | 37.3 |
| 5/2/2015 1:04:14 | 52.49 | 45.79 | 682 | 1.09 | 0.19 | 37.3 |
| 5/2/2015 1:04:14 | 52.82 | 46.12 | 676 | 1.11 | 0.20 | 37.0 |
| 5/2/2015 1:04:15 | 53.15 | 46.45 | 676 | 1.10 | 0.20 | 37.0 |
| 5/2/2015 1:04:15 | 53.48 | 46.78 | 676 | 1.14 | 0.20 | 37.0 |
| 5/2/2015 1:04:16 | 53.81 | 47.11 | 671 | 1.10 | 0.20 | 36.7 |
| 5/2/2015 1:04:16 | 54.13 | 47.43 | 671 | 1.09 | 0.20 | 36.7 |
| 5/2/2015 1:04:17 | 54.46 | 47.76 | 664 | 1.09 | 0.20 | 36.3 |
| 5/2/2015 1:04:17 | 54.79 | 48.09 | 671 | 1.09 | 0.20 | 36.7 |
| 5/2/2015 1:04:18 | 55.12 | 48.42 | 662 | 1.11 | 0.20 | 36.2 |
| 5/2/2015 1:04:19 | 55.45 | 48.75 | 653 | 1.14 | 0.20 | 35.7 |
| 5/2/2015 1:04:25 | 55.77 | 49.07 | 0 | 1.13 | 1.14 | 0.0 |
| 5/2/2015 1:04:28 | 56.10 | 49.40 | 40 | 1.07 | 1.22 | 2.2 |
| 5/2/2015 1:04:30 | 56.43 | 49.73 | 237 | 1.05 | 1.12 | 13.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:04:31 | 56.76 | 50.06 | 327 | 1.09 | 1.21 | 17.9 |
| 5/2/2015 | 1:04:33 | 57.09 | 50.39 | 202 | 1.11 | 1.17 | 11.0 |
| 5/2/2015 | 1:04:39 | 57.41 | 50.71 | 64 | 1.14 | 1.26 | 3.5 |
| 5/2/2015 | 1:04:41 | 57.74 | 51.04 | 139 | 1.11 | 1.21 | 7.6 |
| 5/2/2015 | 1:04:44 | 58.07 | 51.37 | 162 | 1.03 | 1.28 | 8.9 |
| 5/2/2015 | 1:04:46 | 58.40 | 51.70 | 171 | 1.07 | 1.12 | 9.3 |
| 5/2/2015 | 1:04:47 | 58.73 | 52.03 | 209 | 1.08 | 1.13 | 11.4 |
| 5/2/2015 | 1:04:48 | 59.06 | 52.36 | 238 | 1.11 | 1.01 | 13.0 |
| 5/2/2015 | 1:04:49 | 59.38 | 52.68 | 314 | 1.07 | 1.13 | 17.2 |
| 5/2/2015 | 1:04:52 | 59.71 | 53.01 | 150 | 1.11 | 1.15 | 8.2 |
| 5/2/2015 | 1:04:54 | 60.04 | 53.34 | 156 | 1.13 | 1.01 | 8.5 |
| 5/2/2015 | 1:04:56 | 60.37 | 53.67 | 162 | 1.07 | 1.28 | 8.9 |
| 5/2/2015 | 1:05:02 | 60.70 | 54.00 | 76 | 1.08 | 1.06 | 4.1 |
| 5/2/2015 | 1:05:07 | 61.02 | 54.32 | 61 | 1.05 | 1.00 | 3.3 |
| 5/2/2015 | 1:05:13 | 61.35 | 54.65 | 55 | 1.10 | 0.98 | 3.0 |
| 5/2/2015 | 1:05:20 | 61.68 | 54.98 | 52 | 1.18 | 1.04 | 2.8 |

## M67 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:55:50

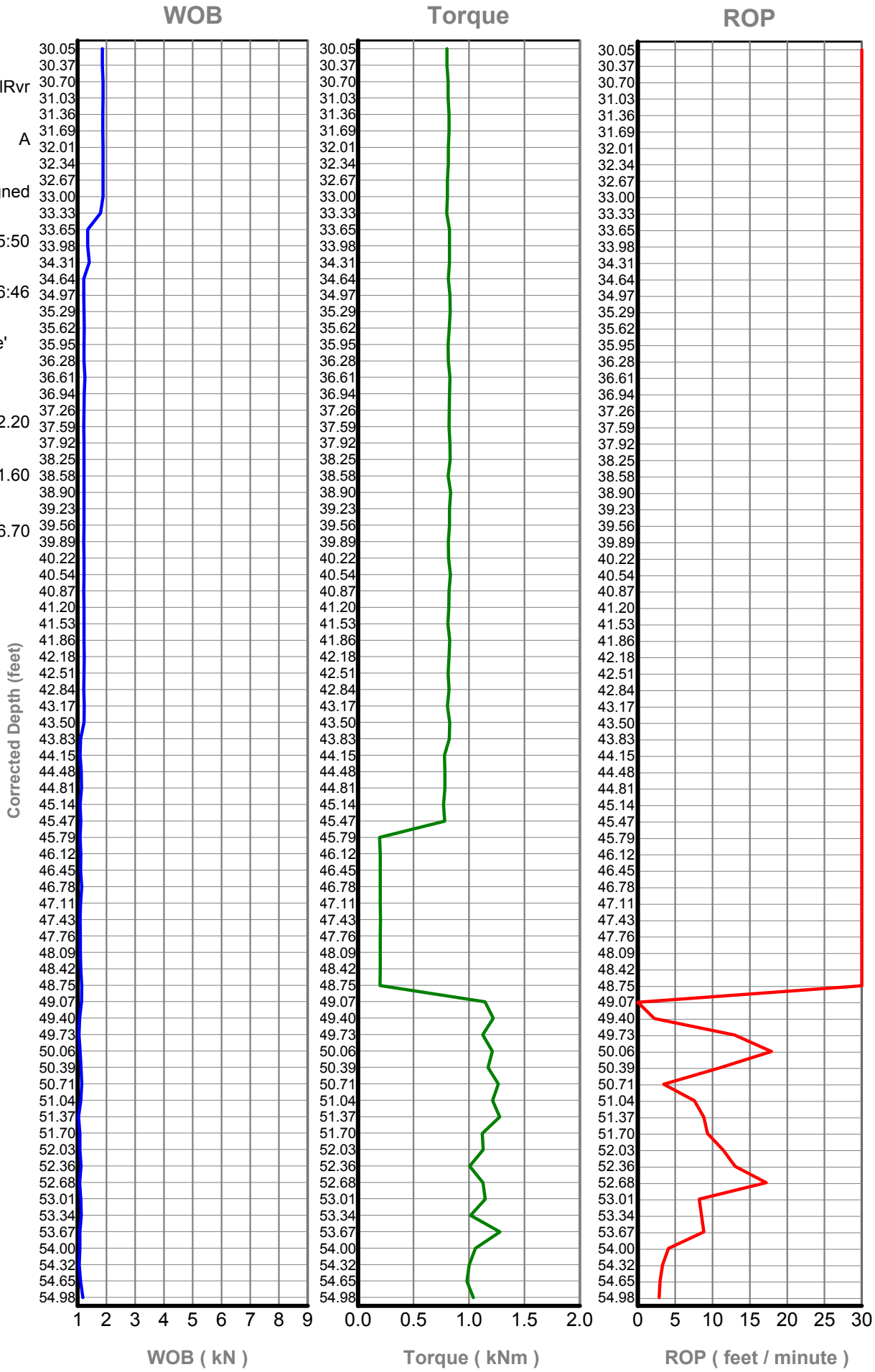
**End Date:**
5/2/2015 1:06:46

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
358,972.20

**Easting:**
240,471.60

**Tide (feet):**
6.70



## Hole: M68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:04:34 | 36.75 | 30.05 | 1,166 | 0.33 | 0.37 | 63.8 |
| 5/2/2015 1:04:35 | 37.07 | 30.37 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 1:04:35 | 37.40 | 30.70 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/2/2015 1:04:35 | 37.73 | 31.03 | 1,160 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:04:36 | 38.06 | 31.36 | 1,160 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:04:36 | 38.39 | 31.69 | 1,150 | 0.29 | 0.37 | 62.9 |
| 5/2/2015 1:04:36 | 38.71 | 32.01 | 1,150 | 0.29 | 0.37 | 62.9 |
| 5/2/2015 1:04:36 | 39.04 | 32.34 | 1,180 | 0.35 | 0.36 | 64.5 |
| 5/2/2015 1:04:37 | 39.37 | 32.67 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:04:37 | 39.70 | 33.00 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:04:37 | 40.03 | 33.33 | 1,167 | 0.31 | 0.38 | 63.8 |
| 5/2/2015 1:04:38 | 40.35 | 33.65 | 1,167 | 0.31 | 0.38 | 63.8 |
| 5/2/2015 1:04:38 | 40.68 | 33.98 | 1,157 | 0.32 | 0.38 | 63.2 |
| 5/2/2015 1:04:38 | 41.01 | 34.31 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 1:04:39 | 41.34 | 34.64 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 1:04:39 | 41.67 | 34.97 | 1,162 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 1:04:40 | 41.99 | 35.29 | 1,162 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 1:04:40 | 42.32 | 35.62 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 1:04:40 | 42.65 | 35.95 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 1:04:41 | 42.98 | 36.28 | 1,162 | 0.31 | 0.38 | 63.6 |
| 5/2/2015 1:04:41 | 43.31 | 36.61 | 1,162 | 0.33 | 0.37 | 63.6 |
| 5/2/2015 1:04:41 | 43.64 | 36.94 | 1,162 | 0.33 | 0.37 | 63.6 |
| 5/2/2015 1:04:41 | 43.96 | 37.26 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 1:04:42 | 44.29 | 37.59 | 1,156 | 0.32 | 0.37 | 63.2 |
| 5/2/2015 1:04:42 | 44.62 | 37.92 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:04:42 | 44.95 | 38.25 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:04:43 | 45.28 | 38.58 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/2/2015 1:04:43 | 45.60 | 38.90 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 1:04:43 | 45.93 | 39.23 | 1,165 | 0.33 | 0.37 | 63.7 |
| 5/2/2015 1:04:43 | 46.26 | 39.56 | 1,162 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 1:04:44 | 46.59 | 39.89 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 1:04:44 | 46.92 | 40.22 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 1:04:44 | 47.24 | 40.54 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:04:45 | 47.57 | 40.87 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:04:45 | 47.90 | 41.20 | 1,171 | 0.29 | 0.37 | 64.0 |
| 5/2/2015 1:04:45 | 48.23 | 41.53 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:04:46 | 48.56 | 41.86 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:04:46 | 48.88 | 42.18 | 1,147 | 0.26 | 0.39 | 62.7 |
| 5/2/2015 1:04:46 | 49.21 | 42.51 | 1,147 | 0.26 | 0.39 | 62.7 |
| 5/2/2015 1:04:46 | 49.54 | 42.84 | 1,147 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 1:04:47 | 49.87 | 43.17 | 1,147 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 1:04:47 | 50.20 | 43.50 | 1,157 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 1:04:47 | 50.53 | 43.83 | 1,161 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:04:48 | 50.85 | 44.15 | 1,161 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:04:48 | 51.18 | 44.48 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 1:04:48 | 51.51 | 44.81 | 1,165 | 0.32 | 0.38 | 63.7 |
| 5/2/2015 1:04:48 | 51.84 | 45.14 | 1,160 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:04:49 | 52.17 | 45.47 | 1,195 | 0.32 | 0.38 | 65.4 |
| 5/2/2015 1:04:50 | 52.49 | 45.79 | 1,195 | 0.32 | 0.38 | 65.4 |
| 5/2/2015 1:04:50 | 52.82 | 46.12 | 1,174 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 1:04:50 | 53.15 | 46.45 | 1,174 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 1:04:50 | 53.48 | 46.78 | 1,168 | 0.31 | 0.38 | 63.9 |
| 5/2/2015 1:04:51 | 53.81 | 47.11 | 1,155 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 1:04:51 | 54.13 | 47.43 | 1,155 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 1:04:51 | 54.46 | 47.76 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/2/2015 1:04:52 | 54.79 | 48.09 | 1,156 | 0.31 | 0.38 | 63.2 |
| 5/2/2015 1:04:52 | 55.12 | 48.42 | 1,138 | 0.32 | 0.37 | 62.2 |
| 5/2/2015 1:04:52 | 55.45 | 48.75 | 1,139 | 0.31 | 0.39 | 62.3 |
| 5/2/2015 1:04:53 | 55.77 | 49.07 | 1,139 | 0.31 | 0.39 | 62.3 |
| 5/2/2015 1:04:53 | 56.10 | 49.40 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 1:04:53 | 56.43 | 49.73 | 1,099 | 0.28 | 0.46 | 60.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:05:03 | 56.76 | 50.06 | 28 | 3.94 | 0.43 | 1.5 |
| 5/2/2015 | 1:05:03 | 57.09 | 50.39 | 108 | 3.33 | 0.41 | 5.9 |
| 5/2/2015 | 1:05:04 | 57.41 | 50.71 | 241 | 2.97 | 0.43 | 13.2 |
| 5/2/2015 | 1:05:13 | 57.74 | 51.04 | 66 | 3.33 | 0.47 | 3.6 |
| 5/2/2015 | 1:05:16 | 58.07 | 51.37 | 93 | 3.58 | 0.47 | 5.1 |
| 5/2/2015 | 1:05:22 | 58.40 | 51.70 | 61 | 3.15 | 0.47 | 3.3 |
| 5/2/2015 | 1:05:29 | 58.73 | 52.03 | 52 | 2.88 | 0.47 | 2.9 |
| 5/2/2015 | 1:05:36 | 59.06 | 52.36 | 50 | 3.24 | 0.46 | 2.7 |
| 5/2/2015 | 1:05:42 | 59.30 | 52.60 | 54 | 3.24 | 0.47 | 2.9 |

## M68 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:03:02

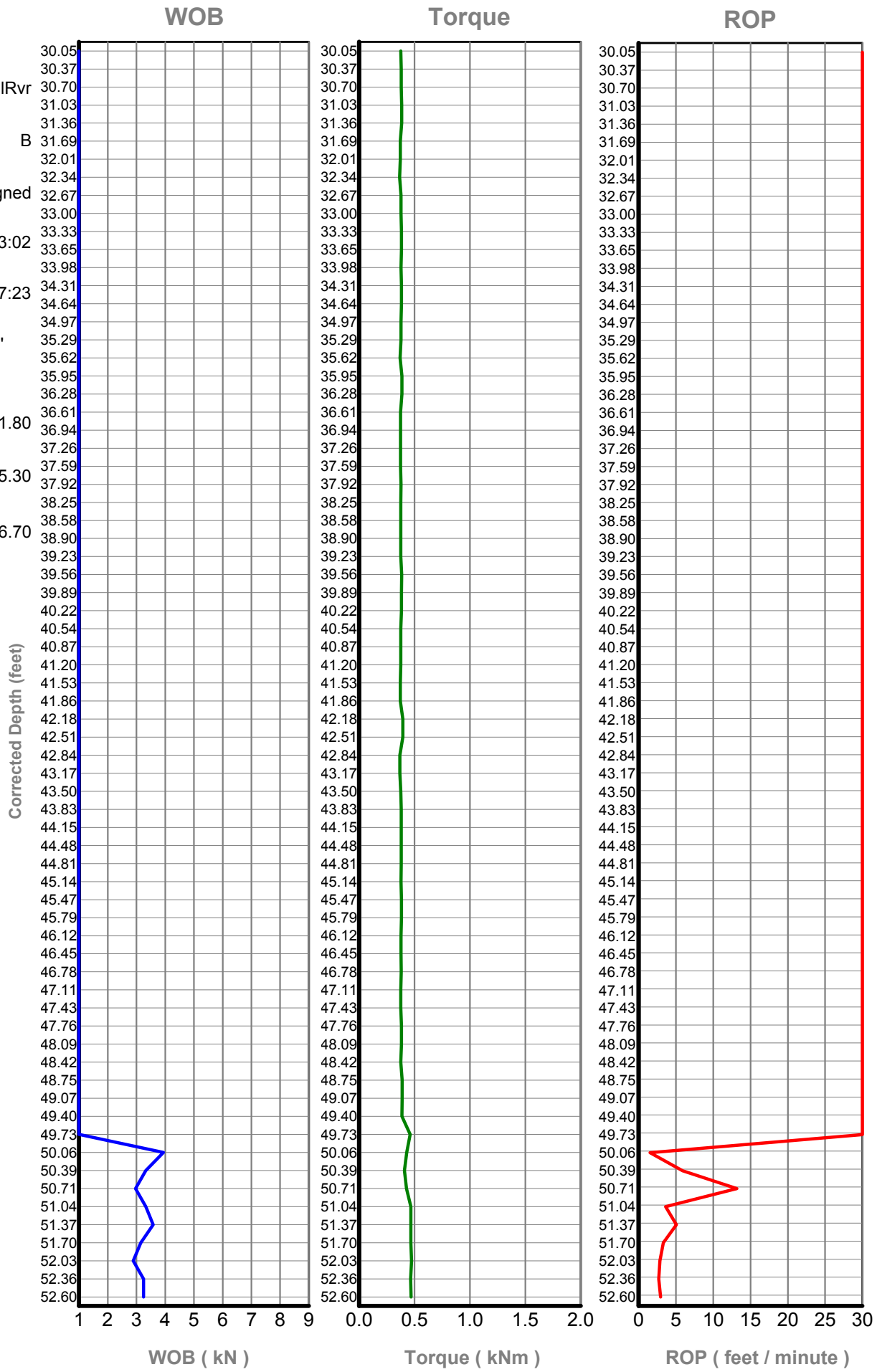
**End Date:**
5/2/2015 1:07:23

**Operator Note:**
'6.7 6.7b Auto Complete'

**Northing:**
359,011.80

**Easting:**
240,535.30

**Tide (feet):**
6.70



## Hole: M69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:03:16 | 36.75 | 30.05 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:16 | 37.07 | 30.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:16 | 37.40 | 30.70 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:03:17 | 37.73 | 31.03 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:17 | 38.06 | 31.36 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:17 | 38.39 | 31.69 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:18 | 38.71 | 32.01 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:18 | 39.04 | 32.34 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:18 | 39.37 | 32.67 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:19 | 39.70 | 33.00 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:19 | 40.03 | 33.33 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:19 | 40.35 | 33.65 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:20 | 40.68 | 33.98 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:20 | 41.01 | 34.31 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:20 | 41.34 | 34.64 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:21 | 41.67 | 34.97 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:21 | 41.99 | 35.29 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 1:03:21 | 42.32 | 35.62 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 1:03:22 | 42.65 | 35.95 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:22 | 42.98 | 36.28 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:22 | 43.31 | 36.61 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:23 | 43.64 | 36.94 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:23 | 43.96 | 37.26 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:23 | 44.29 | 37.59 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:03:24 | 44.62 | 37.92 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:03:24 | 44.95 | 38.25 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:03:24 | 45.28 | 38.58 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:25 | 45.60 | 38.90 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:03:25 | 45.93 | 39.23 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:03:25 | 46.26 | 39.56 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:03:26 | 46.59 | 39.89 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:03:26 | 46.92 | 40.22 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:27 | 47.24 | 40.54 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:27 | 47.57 | 40.87 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 1:03:27 | 47.90 | 41.20 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:03:28 | 48.23 | 41.53 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:28 | 48.56 | 41.86 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:28 | 48.88 | 42.18 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:03:29 | 49.21 | 42.51 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:03:29 | 49.54 | 42.84 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:03:29 | 49.87 | 43.17 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:03:30 | 50.20 | 43.50 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:03:30 | 50.53 | 43.83 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:03:30 | 50.85 | 44.15 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:03:31 | 51.18 | 44.48 | 1,040 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:03:31 | 51.51 | 44.81 | 1,040 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:03:31 | 51.84 | 45.14 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:03:32 | 52.17 | 45.47 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:03:32 | 52.49 | 45.79 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:03:32 | 52.82 | 46.12 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:03:33 | 53.15 | 46.45 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 1:03:33 | 53.48 | 46.78 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 1:03:33 | 53.81 | 47.11 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:03:34 | 54.13 | 47.43 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:03:34 | 54.46 | 47.76 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:03:34 | 54.79 | 48.09 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:03:35 | 55.12 | 48.42 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:03:35 | 55.45 | 48.75 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:03:36 | 55.77 | 49.07 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:03:36 | 56.10 | 49.40 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 1:03:37 | 56.43 | 49.73 | 962 | 1.14 | 0.29 | 52.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:03:50 | 56.76 | 50.06 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 1:03:51 | 57.09 | 50.39 | 77 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 | 1:03:52 | 57.41 | 50.71 | 160 | 1.14 | 0.29 | 8.7 |
| 5/2/2015 | 1:03:52 | 57.74 | 51.04 | 277 | 1.14 | 0.29 | 15.2 |
| 5/2/2015 | 1:03:53 | 58.07 | 51.37 | 434 | 1.14 | 0.29 | 23.7 |
| 5/2/2015 | 1:03:58 | 58.40 | 51.70 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 | 1:03:59 | 58.73 | 52.03 | 204 | 1.14 | 0.29 | 11.2 |
| 5/2/2015 | 1:04:00 | 59.06 | 52.36 | 279 | 1.14 | 0.29 | 15.2 |
| 5/2/2015 | 1:04:02 | 59.38 | 52.68 | 235 | 1.14 | 0.29 | 12.9 |
| 5/2/2015 | 1:04:04 | 59.71 | 53.01 | 250 | 1.14 | 0.29 | 13.7 |
| 5/2/2015 | 1:04:05 | 60.04 | 53.34 | 260 | 1.14 | 0.29 | 14.2 |
| 5/2/2015 | 1:04:06 | 60.37 | 53.67 | 287 | 1.14 | 0.29 | 15.7 |
| 5/2/2015 | 1:04:07 | 60.70 | 54.00 | 332 | 1.14 | 0.29 | 18.1 |
| 5/2/2015 | 1:04:08 | 61.02 | 54.32 | 360 | 1.14 | 0.29 | 19.7 |
| 5/2/2015 | 1:04:09 | 61.35 | 54.65 | 360 | 1.14 | 0.29 | 19.7 |
| 5/2/2015 | 1:04:10 | 61.68 | 54.98 | 313 | 1.14 | 0.29 | 17.1 |
| 5/2/2015 | 1:04:11 | 61.78 | 55.08 | 261 | 1.14 | 0.29 | 14.2 |

## M69 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:02:13

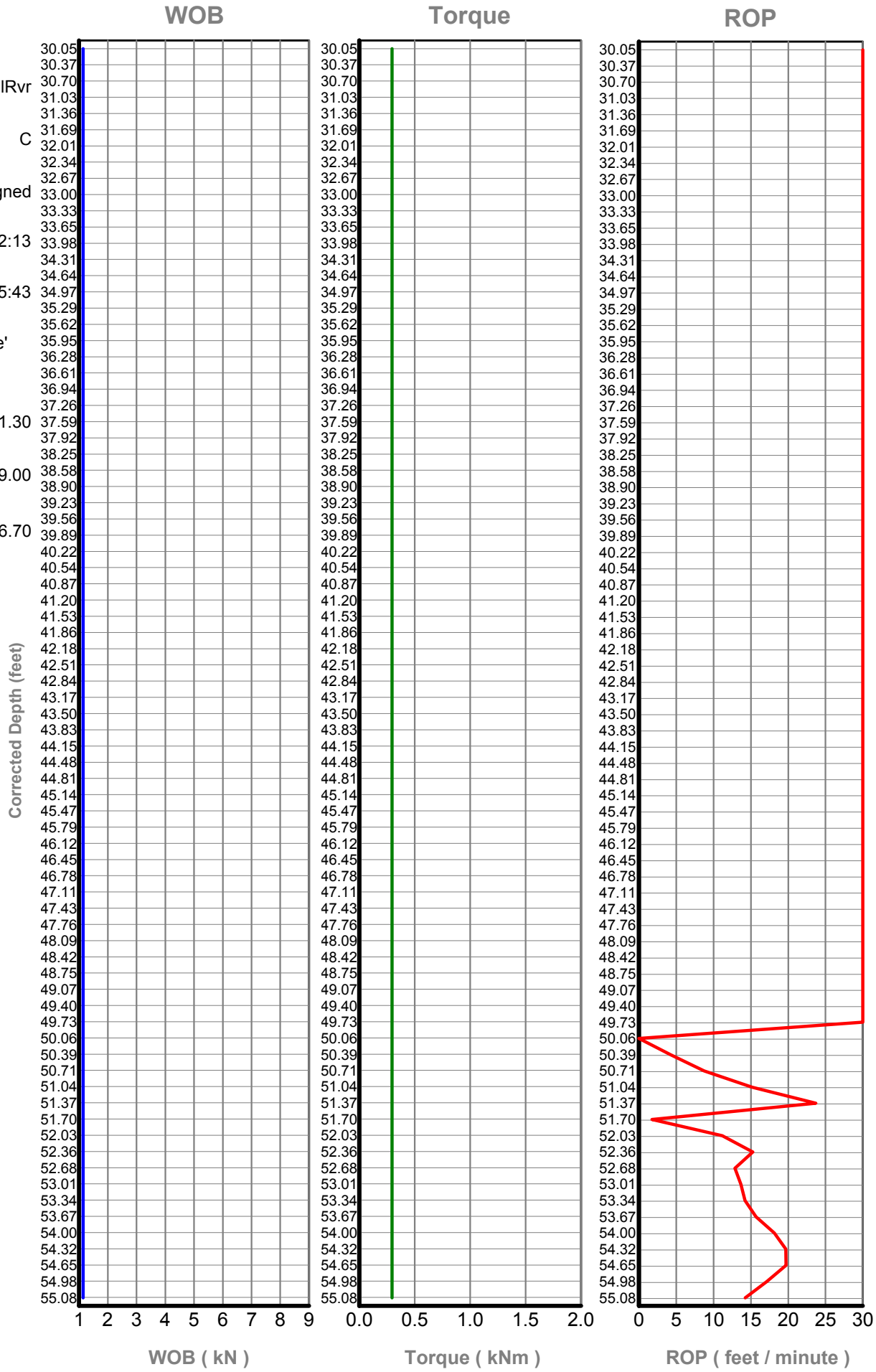
**End Date:**
5/2/2015 1:05:43

**Operator Note:**
'6.7 6.7 c Auto Complete'

**Northing:**
359,051.30

**Easting:**
240,599.00

**Tide (feet):**
6.70



## Hole: M7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:02:47 | 37.40 | 30.30 | 659 | 1.29 | 0.29 | 36.0 |
| 5/2/2015 0:02:47 | 37.73 | 30.63 | 660 | 1.31 | 0.29 | 36.1 |
| 5/2/2015 0:02:48 | 38.06 | 30.96 | 664 | 1.30 | 0.29 | 36.3 |
| 5/2/2015 0:02:48 | 38.39 | 31.29 | 675 | 1.29 | 0.29 | 36.9 |
| 5/2/2015 0:02:49 | 38.71 | 31.61 | 671 | 1.29 | 0.29 | 36.7 |
| 5/2/2015 0:02:49 | 39.04 | 31.94 | 677 | 1.30 | 0.29 | 37.0 |
| 5/2/2015 0:02:50 | 39.37 | 32.27 | 665 | 1.30 | 0.29 | 36.4 |
| 5/2/2015 0:02:50 | 39.70 | 32.60 | 651 | 1.30 | 0.29 | 35.6 |
| 5/2/2015 0:02:51 | 40.03 | 32.93 | 654 | 1.16 | 0.22 | 35.7 |
| 5/2/2015 0:02:51 | 40.35 | 33.25 | 654 | 1.19 | 0.22 | 35.7 |
| 5/2/2015 0:02:52 | 40.68 | 33.58 | 668 | 1.17 | 0.22 | 36.5 |
| 5/2/2015 0:02:52 | 41.01 | 33.91 | 670 | 1.17 | 0.22 | 36.6 |
| 5/2/2015 0:02:53 | 41.34 | 34.24 | 678 | 1.17 | 0.22 | 37.1 |
| 5/2/2015 0:02:53 | 41.67 | 34.57 | 701 | 1.19 | 0.22 | 38.3 |
| 5/2/2015 0:02:54 | 41.99 | 34.89 | 693 | 1.19 | 0.22 | 37.9 |
| 5/2/2015 0:02:54 | 42.32 | 35.22 | 693 | 1.17 | 0.22 | 37.9 |
| 5/2/2015 0:02:55 | 42.65 | 35.55 | 696 | 1.18 | 0.22 | 38.1 |
| 5/2/2015 0:02:55 | 42.98 | 35.88 | 696 | 1.17 | 0.22 | 38.1 |
| 5/2/2015 0:02:56 | 43.31 | 36.21 | 697 | 1.18 | 0.22 | 38.1 |
| 5/2/2015 0:02:57 | 43.64 | 36.54 | 693 | 1.19 | 0.23 | 37.9 |
| 5/2/2015 0:02:57 | 43.96 | 36.86 | 703 | 1.18 | 0.22 | 38.4 |
| 5/2/2015 0:02:58 | 44.29 | 37.19 | 700 | 1.18 | 0.22 | 38.3 |
| 5/2/2015 0:02:58 | 44.62 | 37.52 | 700 | 1.17 | 0.22 | 38.3 |
| 5/2/2015 0:02:59 | 44.95 | 37.85 | 700 | 1.18 | 0.22 | 38.3 |
| 5/2/2015 0:02:59 | 45.28 | 38.18 | 697 | 1.18 | 0.22 | 38.1 |
| 5/2/2015 0:03:00 | 45.60 | 38.50 | 699 | 1.18 | 0.22 | 38.2 |
| 5/2/2015 0:03:00 | 45.93 | 38.83 | 691 | 1.17 | 0.22 | 37.8 |
| 5/2/2015 0:03:01 | 46.26 | 39.16 | 688 | 1.18 | 0.22 | 37.6 |
| 5/2/2015 0:03:01 | 46.59 | 39.49 | 685 | 1.19 | 0.22 | 37.5 |
| 5/2/2015 0:03:02 | 46.92 | 39.82 | 682 | 1.18 | 0.22 | 37.3 |
| 5/2/2015 0:03:02 | 47.24 | 40.14 | 679 | 1.19 | 0.22 | 37.1 |
| 5/2/2015 0:03:03 | 47.57 | 40.47 | 671 | 1.19 | 0.22 | 36.7 |
| 5/2/2015 0:03:03 | 47.90 | 40.80 | 656 | 1.19 | 0.22 | 35.9 |
| 5/2/2015 0:03:04 | 48.23 | 41.13 | 636 | 1.17 | 0.22 | 34.8 |
| 5/2/2015 0:03:04 | 48.56 | 41.46 | 616 | 1.18 | 0.22 | 33.7 |
| 5/2/2015 0:03:05 | 48.88 | 41.78 | 598 | 1.18 | 0.22 | 32.7 |
| 5/2/2015 0:03:06 | 49.21 | 42.11 | 590 | 1.19 | 0.22 | 32.2 |
| 5/2/2015 0:03:06 | 49.54 | 42.44 | 596 | 1.19 | 0.22 | 32.6 |
| 5/2/2015 0:03:07 | 49.87 | 42.77 | 596 | 1.20 | 0.22 | 32.6 |
| 5/2/2015 0:03:53 | 50.20 | 43.10 | 5 | 1.64 | 1.40 | 0.2 |
| 5/2/2015 0:03:54 | 50.53 | 43.43 | 119 | 1.16 | 1.26 | 6.5 |
| 5/2/2015 0:03:55 | 50.85 | 43.75 | 190 | 1.11 | 1.25 | 10.4 |
| 5/2/2015 0:03:56 | 51.18 | 44.08 | 290 | 1.21 | 1.23 | 15.9 |
| 5/2/2015 0:04:23 | 51.51 | 44.41 | 68 | 1.16 | 1.28 | 3.7 |
| 5/2/2015 0:04:32 | 51.84 | 44.74 | 34 | 1.15 | 1.03 | 1.8 |
| 5/2/2015 0:04:43 | 52.17 | 45.07 | 43 | 1.16 | 1.01 | 2.4 |
| 5/2/2015 0:04:47 | 52.49 | 45.39 | 78 | 1.11 | 1.23 | 4.3 |
| 5/2/2015 0:04:59 | 52.82 | 45.72 | 23 | 1.19 | 0.94 | 1.3 |
| 5/2/2015 0:05:14 | 53.15 | 46.05 | 23 | 1.18 | 0.93 | 1.3 |
| 5/2/2015 0:05:26 | 53.48 | 46.38 | 29 | 1.11 | 0.92 | 1.6 |
| 5/2/2015 0:05:30 | 53.58 | 46.48 | 28 | 1.22 | 1.14 | 1.6 |

## M7 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 23:59:23

**End Date:**
5/2/2015 0:06:46

**Operator Note:**
'7.1 7.1 a Auto Complete'

**Northing:**
359,299.32

**Easting:**
240,277.60

**Tide (feet):**
7.10



## Hole: M70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:31:27 | 36.75 | 30.25 | 859 | 1.43 | 0.27 | 47.0 |
| 5/1/2015 22:31:27 | 37.07 | 30.57 | 854 | 1.43 | 0.27 | 46.7 |
| 5/1/2015 22:31:28 | 37.40 | 30.90 | 856 | 1.43 | 0.27 | 46.8 |
| 5/1/2015 22:31:28 | 37.73 | 31.23 | 856 | 1.43 | 0.27 | 46.8 |
| 5/1/2015 22:31:29 | 38.06 | 31.56 | 856 | 1.43 | 0.27 | 46.8 |
| 5/1/2015 22:31:29 | 38.39 | 31.89 | 856 | 1.43 | 0.27 | 46.8 |
| 5/1/2015 22:31:29 | 38.71 | 32.21 | 856 | 1.43 | 0.27 | 46.8 |
| 5/1/2015 22:31:30 | 39.04 | 32.54 | 859 | 1.43 | 0.27 | 47.0 |
| 5/1/2015 22:31:30 | 39.37 | 32.87 | 866 | 1.43 | 0.26 | 47.4 |
| 5/1/2015 22:31:31 | 39.70 | 33.20 | 856 | 1.43 | 0.26 | 46.8 |
| 5/1/2015 22:31:32 | 40.03 | 33.53 | 856 | 1.43 | 0.26 | 46.8 |
| 5/1/2015 22:31:32 | 40.35 | 33.85 | 851 | 1.43 | 0.27 | 46.5 |
| 5/1/2015 22:31:32 | 40.68 | 34.18 | 859 | 1.44 | 0.27 | 46.9 |
| 5/1/2015 22:31:33 | 41.01 | 34.51 | 853 | 1.44 | 0.26 | 46.6 |
| 5/1/2015 22:31:33 | 41.34 | 34.84 | 850 | 1.44 | 0.27 | 46.5 |
| 5/1/2015 22:31:34 | 41.67 | 35.17 | 850 | 1.44 | 0.27 | 46.5 |
| 5/1/2015 22:31:34 | 41.99 | 35.49 | 841 | 1.43 | 0.26 | 46.0 |
| 5/1/2015 22:31:34 | 42.32 | 35.82 | 845 | 0.62 | 0.22 | 46.2 |
| 5/1/2015 22:31:37 | 42.65 | 36.15 | 125 | 1.24 | 0.26 | 6.9 |
| 5/1/2015 22:31:37 | 42.98 | 36.48 | 161 | 1.24 | 0.26 | 8.8 |
| 5/1/2015 22:31:38 | 43.31 | 36.81 | 286 | 1.22 | 0.26 | 15.7 |
| 5/1/2015 22:31:38 | 43.64 | 37.14 | 419 | 1.22 | 0.27 | 22.9 |
| 5/1/2015 22:31:39 | 43.96 | 37.46 | 642 | 1.23 | 0.26 | 35.1 |
| 5/1/2015 22:31:40 | 44.29 | 37.79 | 641 | 1.21 | 0.26 | 35.0 |
| 5/1/2015 22:31:40 | 44.62 | 38.12 | 651 | 1.23 | 0.26 | 35.6 |
| 5/1/2015 22:31:41 | 44.95 | 38.45 | 644 | 1.22 | 0.28 | 35.2 |
| 5/1/2015 22:31:41 | 45.28 | 38.78 | 648 | 1.22 | 0.26 | 35.4 |
| 5/1/2015 22:31:42 | 45.60 | 39.10 | 645 | 1.22 | 0.26 | 35.3 |
| 5/1/2015 22:31:43 | 45.93 | 39.43 | 652 | 1.22 | 0.26 | 35.6 |
| 5/1/2015 22:31:43 | 46.26 | 39.76 | 642 | 1.10 | 0.20 | 35.1 |
| 5/1/2015 22:31:44 | 46.59 | 40.09 | 654 | 1.11 | 0.22 | 35.8 |
| 5/1/2015 22:31:44 | 46.92 | 40.42 | 656 | 1.11 | 0.20 | 35.9 |
| 5/1/2015 22:31:45 | 47.24 | 40.74 | 671 | 1.11 | 0.20 | 36.7 |
| 5/1/2015 22:31:45 | 47.57 | 41.07 | 679 | 1.13 | 0.20 | 37.2 |
| 5/1/2015 22:31:46 | 47.90 | 41.40 | 691 | 1.11 | 0.20 | 37.8 |
| 5/1/2015 22:31:46 | 48.23 | 41.73 | 690 | 1.13 | 0.20 | 37.7 |
| 5/1/2015 22:31:47 | 48.56 | 42.06 | 700 | 1.11 | 0.20 | 38.3 |
| 5/1/2015 22:31:47 | 48.88 | 42.38 | 689 | 1.11 | 0.20 | 37.7 |
| 5/1/2015 22:31:48 | 49.21 | 42.71 | 689 | 1.11 | 0.20 | 37.7 |
| 5/1/2015 22:31:48 | 49.54 | 43.04 | 688 | 1.11 | 0.20 | 37.6 |
| 5/1/2015 22:31:49 | 49.87 | 43.37 | 700 | 1.11 | 0.20 | 38.3 |
| 5/1/2015 22:31:49 | 50.20 | 43.70 | 692 | 1.13 | 0.20 | 37.9 |
| 5/1/2015 22:31:50 | 50.53 | 44.03 | 692 | 1.12 | 0.20 | 37.9 |
| 5/1/2015 22:31:50 | 50.85 | 44.35 | 691 | 1.11 | 0.20 | 37.8 |
| 5/1/2015 22:31:51 | 51.18 | 44.68 | 704 | 1.11 | 0.20 | 38.5 |
| 5/1/2015 22:31:51 | 51.51 | 45.01 | 700 | 1.10 | 0.20 | 38.3 |
| 5/1/2015 22:31:52 | 51.84 | 45.34 | 692 | 1.11 | 0.20 | 37.9 |
| 5/1/2015 22:31:53 | 52.17 | 45.67 | 700 | 1.10 | 0.20 | 38.3 |
| 5/1/2015 22:31:53 | 52.49 | 45.99 | 694 | 1.11 | 0.20 | 37.9 |
| 5/1/2015 22:31:54 | 52.82 | 46.32 | 691 | 1.07 | 0.20 | 37.8 |
| 5/1/2015 22:31:54 | 53.15 | 46.65 | 685 | 1.11 | 0.20 | 37.5 |
| 5/1/2015 22:31:55 | 53.48 | 46.98 | 675 | 1.11 | 0.20 | 36.9 |
| 5/1/2015 22:31:55 | 53.81 | 47.31 | 676 | 1.11 | 0.20 | 37.0 |
| 5/1/2015 22:31:56 | 54.13 | 47.63 | 671 | 1.12 | 0.20 | 36.7 |
| 5/1/2015 22:31:56 | 54.46 | 47.96 | 665 | 1.13 | 0.20 | 36.4 |
| 5/1/2015 22:31:57 | 54.79 | 48.29 | 665 | 1.11 | 0.20 | 36.4 |
| 5/1/2015 22:31:57 | 55.12 | 48.62 | 662 | 1.11 | 0.20 | 36.2 |
| 5/1/2015 22:31:58 | 55.45 | 48.95 | 653 | 1.11 | 0.20 | 35.7 |
| 5/1/2015 22:31:58 | 55.77 | 49.27 | 642 | 1.13 | 0.20 | 35.1 |
| 5/1/2015 22:31:59 | 56.10 | 49.60 | 598 | 1.13 | 0.20 | 32.7 |
| 5/1/2015 22:32:00 | 56.43 | 49.93 | 581 | 1.12 | 0.20 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:32:00 | 56.76 | 50.26 | 554 | 1.13 | 0.20 | 30.3 |
| 5/1/2015 | 22:32:01 | 57.09 | 50.59 | 554 | 1.14 | 0.20 | 30.3 |
| 5/1/2015 | 22:32:25 | 57.41 | 50.91 | 21 | 1.16 | 1.53 | 1.1 |
| 5/1/2015 | 22:32:31 | 57.74 | 51.24 | 29 | 1.80 | 1.64 | 1.6 |
| 5/1/2015 | 22:32:32 | 58.07 | 51.57 | 168 | 1.83 | 1.29 | 9.2 |
| 5/1/2015 | 22:32:33 | 58.40 | 51.90 | 253 | 1.89 | 1.13 | 13.9 |
| 5/1/2015 | 22:32:34 | 58.73 | 52.23 | 451 | 1.20 | 1.53 | 24.7 |
| 5/1/2015 | 22:32:37 | 59.06 | 52.56 | 105 | 1.66 | 1.56 | 5.7 |
| 5/1/2015 | 22:32:38 | 59.38 | 52.88 | 203 | 1.24 | 1.91 | 11.1 |
| 5/1/2015 | 22:32:41 | 59.71 | 53.21 | 72 | 1.85 | 1.39 | 3.9 |
| 5/1/2015 | 22:32:42 | 60.04 | 53.54 | 111 | 1.79 | 1.52 | 6.1 |
| 5/1/2015 | 22:32:43 | 60.37 | 53.87 | 285 | 1.86 | 1.35 | 15.6 |
| 5/1/2015 | 22:32:44 | 60.70 | 54.20 | 379 | 1.83 | 1.30 | 20.7 |
| 5/1/2015 | 22:32:44 | 61.02 | 54.52 | 434 | 1.72 | 1.29 | 23.7 |
| 5/1/2015 | 22:32:45 | 61.35 | 54.85 | 434 | 1.90 | 1.06 | 23.7 |
| 5/1/2015 | 22:32:46 | 61.67 | 55.17 | 503 | 1.16 | 1.20 | 27.5 |

## M70 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:29:22

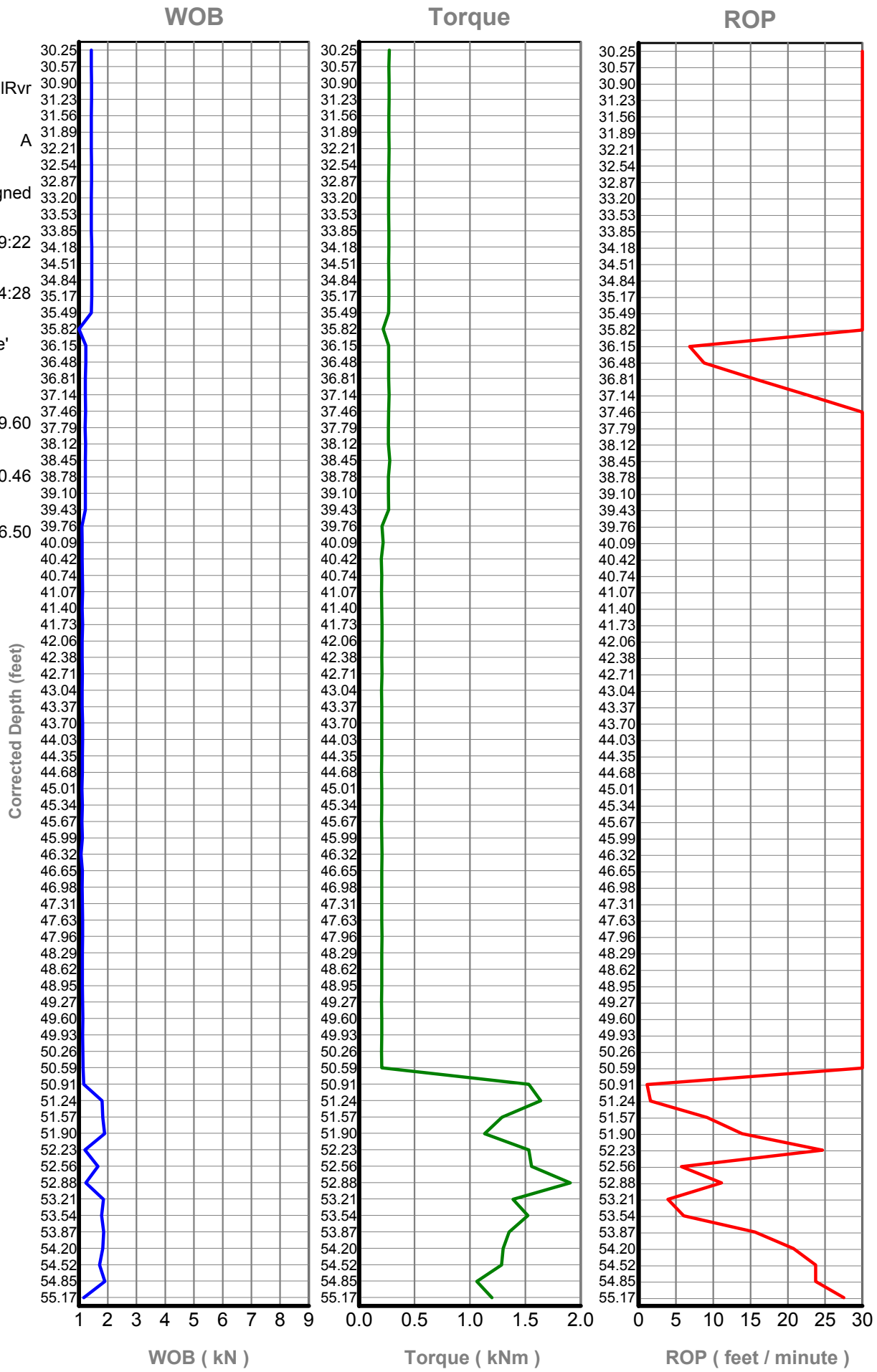
**End Date:**
5/1/2015 22:34:28

**Operator Note:**
'6.5 6.4 a Auto Complete'

**Northing:**
359,109.60

**Easting:**
240,660.46

**Tide (feet):**
6.50



## Hole: M71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:32:03 | 36.75 | 30.25 | 1,046 | 0.35 | 0.38 | 57.2 |
| 5/1/2015 22:32:04 | 37.07 | 30.57 | 1,057 | 0.35 | 0.38 | 57.8 |
| 5/1/2015 22:32:04 | 37.40 | 30.90 | 1,057 | 0.35 | 0.38 | 57.8 |
| 5/1/2015 22:32:04 | 37.73 | 31.23 | 1,057 | 0.29 | 0.38 | 57.8 |
| 5/1/2015 22:32:05 | 38.06 | 31.56 | 1,054 | 0.35 | 0.39 | 57.6 |
| 5/1/2015 22:32:06 | 38.39 | 31.89 | 1,054 | 0.35 | 0.39 | 57.6 |
| 5/1/2015 22:32:05 | 38.71 | 32.21 | 1,030 | 0.37 | 0.38 | 56.3 |
| 5/1/2015 22:32:06 | 39.04 | 32.54 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 22:32:07 | 39.37 | 32.87 | 1,055 | 0.35 | 0.38 | 57.7 |
| 5/1/2015 22:32:06 | 39.70 | 33.20 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 22:32:07 | 40.03 | 33.53 | 1,080 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 22:32:08 | 40.35 | 33.85 | 1,080 | 0.35 | 0.39 | 59.0 |
| 5/1/2015 22:32:08 | 40.68 | 34.18 | 1,043 | 0.35 | 0.38 | 57.0 |
| 5/1/2015 22:32:08 | 41.01 | 34.51 | 1,073 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 22:32:09 | 41.34 | 34.84 | 1,073 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 22:32:09 | 41.67 | 35.17 | 1,068 | 0.35 | 0.38 | 58.4 |
| 5/1/2015 22:32:09 | 41.99 | 35.49 | 1,068 | 0.35 | 0.38 | 58.4 |
| 5/1/2015 22:32:09 | 42.32 | 35.82 | 1,068 | 0.35 | 0.38 | 58.4 |
| 5/1/2015 22:32:10 | 42.65 | 36.15 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 22:32:10 | 42.98 | 36.48 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 22:32:10 | 43.31 | 36.81 | 1,047 | 0.35 | 0.38 | 57.2 |
| 5/1/2015 22:32:11 | 43.64 | 37.14 | 1,083 | 0.35 | 0.38 | 59.2 |
| 5/1/2015 22:32:11 | 43.96 | 37.46 | 1,083 | 0.35 | 0.38 | 59.2 |
| 5/1/2015 22:32:11 | 44.29 | 37.79 | 1,083 | 0.35 | 0.39 | 59.2 |
| 5/1/2015 22:32:12 | 44.62 | 38.12 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 22:32:12 | 44.95 | 38.45 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 22:32:12 | 45.28 | 38.78 | 1,058 | 0.35 | 0.38 | 57.9 |
| 5/1/2015 22:32:13 | 45.60 | 39.10 | 1,049 | 0.35 | 0.38 | 57.4 |
| 5/1/2015 22:32:13 | 45.93 | 39.43 | 1,049 | 0.35 | 0.38 | 57.4 |
| 5/1/2015 22:32:13 | 46.26 | 39.76 | 1,049 | 0.35 | 0.39 | 57.4 |
| 5/1/2015 22:32:14 | 46.59 | 40.09 | 1,049 | 0.35 | 0.39 | 57.4 |
| 5/1/2015 22:32:14 | 46.92 | 40.42 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/1/2015 22:32:14 | 47.24 | 40.74 | 1,062 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 22:32:15 | 47.57 | 41.07 | 1,062 | 0.35 | 0.38 | 58.1 |
| 5/1/2015 22:32:15 | 47.90 | 41.40 | 1,059 | 0.35 | 0.39 | 57.9 |
| 5/1/2015 22:32:15 | 48.23 | 41.73 | 1,077 | 0.35 | 0.38 | 58.9 |
| 5/1/2015 22:32:16 | 48.56 | 42.06 | 1,077 | 0.35 | 0.38 | 58.9 |
| 5/1/2015 22:32:16 | 48.88 | 42.38 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 22:32:16 | 49.21 | 42.71 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 22:32:17 | 49.54 | 43.04 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/1/2015 22:32:17 | 49.87 | 43.37 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 22:32:18 | 50.20 | 43.70 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/1/2015 22:32:18 | 50.53 | 44.03 | 1,069 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 22:32:18 | 50.85 | 44.35 | 1,076 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 22:32:19 | 51.18 | 44.68 | 1,076 | 0.35 | 0.39 | 58.8 |
| 5/1/2015 22:32:19 | 51.51 | 45.01 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 22:32:19 | 51.84 | 45.34 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 22:32:20 | 52.17 | 45.67 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 22:32:20 | 52.49 | 45.99 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 22:32:20 | 52.82 | 46.32 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 22:32:21 | 53.15 | 46.65 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/1/2015 22:32:21 | 53.48 | 46.98 | 1,063 | 0.35 | 0.39 | 58.2 |
| 5/1/2015 22:32:21 | 53.81 | 47.31 | 1,076 | 0.35 | 0.39 | 58.9 |
| 5/1/2015 22:32:22 | 54.13 | 47.63 | 1,076 | 0.35 | 0.39 | 58.9 |
| 5/1/2015 22:32:22 | 54.46 | 47.96 | 1,058 | 0.35 | 0.39 | 57.9 |
| 5/1/2015 22:32:22 | 54.79 | 48.29 | 1,053 | 0.35 | 0.39 | 57.6 |
| 5/1/2015 22:32:23 | 55.12 | 48.62 | 1,053 | 0.35 | 0.39 | 57.6 |
| 5/1/2015 22:32:23 | 55.45 | 48.95 | 1,038 | 0.35 | 0.38 | 56.8 |
| 5/1/2015 22:32:23 | 55.77 | 49.27 | 1,035 | 0.35 | 0.39 | 56.6 |
| 5/1/2015 22:32:24 | 56.10 | 49.60 | 1,035 | 0.35 | 0.39 | 56.6 |
| 5/1/2015 22:32:24 | 56.43 | 49.93 | 1,017 | 0.35 | 0.39 | 55.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:32:24 | 56.76 | 50.26 | 1,009 | 0.35 | 0.39 | 55.2 |
| 5/1/2015 | 22:32:25 | 57.09 | 50.59 | 1,009 | 0.35 | 0.39 | 55.2 |
| 5/1/2015 | 22:32:25 | 57.41 | 50.91 | 991 | 0.35 | 0.40 | 54.2 |
| 5/1/2015 | 22:32:25 | 57.74 | 51.24 | 977 | 0.35 | 0.40 | 53.4 |
| 5/1/2015 | 22:32:26 | 58.07 | 51.57 | 951 | 0.34 | 0.40 | 52.0 |
| 5/1/2015 | 22:32:26 | 58.40 | 51.90 | 951 | 0.34 | 0.40 | 52.0 |
| 5/1/2015 | 22:32:26 | 58.73 | 52.23 | 939 | 0.34 | 0.40 | 51.4 |
| 5/1/2015 | 22:32:27 | 59.06 | 52.56 | 925 | 0.35 | 0.40 | 50.6 |
| 5/1/2015 | 22:32:27 | 59.38 | 52.88 | 922 | 0.33 | 0.40 | 50.4 |
| 5/1/2015 | 22:32:28 | 59.71 | 53.21 | 922 | 0.33 | 0.40 | 50.4 |
| 5/1/2015 | 22:32:28 | 60.04 | 53.54 | 922 | 0.33 | 0.41 | 50.4 |
| 5/1/2015 | 22:32:36 | 60.37 | 53.87 | 89 | 4.33 | 0.47 | 4.8 |
| 5/1/2015 | 22:32:40 | 60.70 | 54.20 | 103 | 4.88 | 0.46 | 5.6 |
| 5/1/2015 | 22:32:46 | 61.02 | 54.52 | 78 | 4.28 | 0.47 | 4.3 |
| 5/1/2015 | 22:32:50 | 61.35 | 54.85 | 95 | 3.69 | 0.46 | 5.2 |
| 5/1/2015 | 22:32:51 | 61.42 | 54.92 | 95 | 4.04 | 0.46 | 5.2 |

## M71 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:30:22

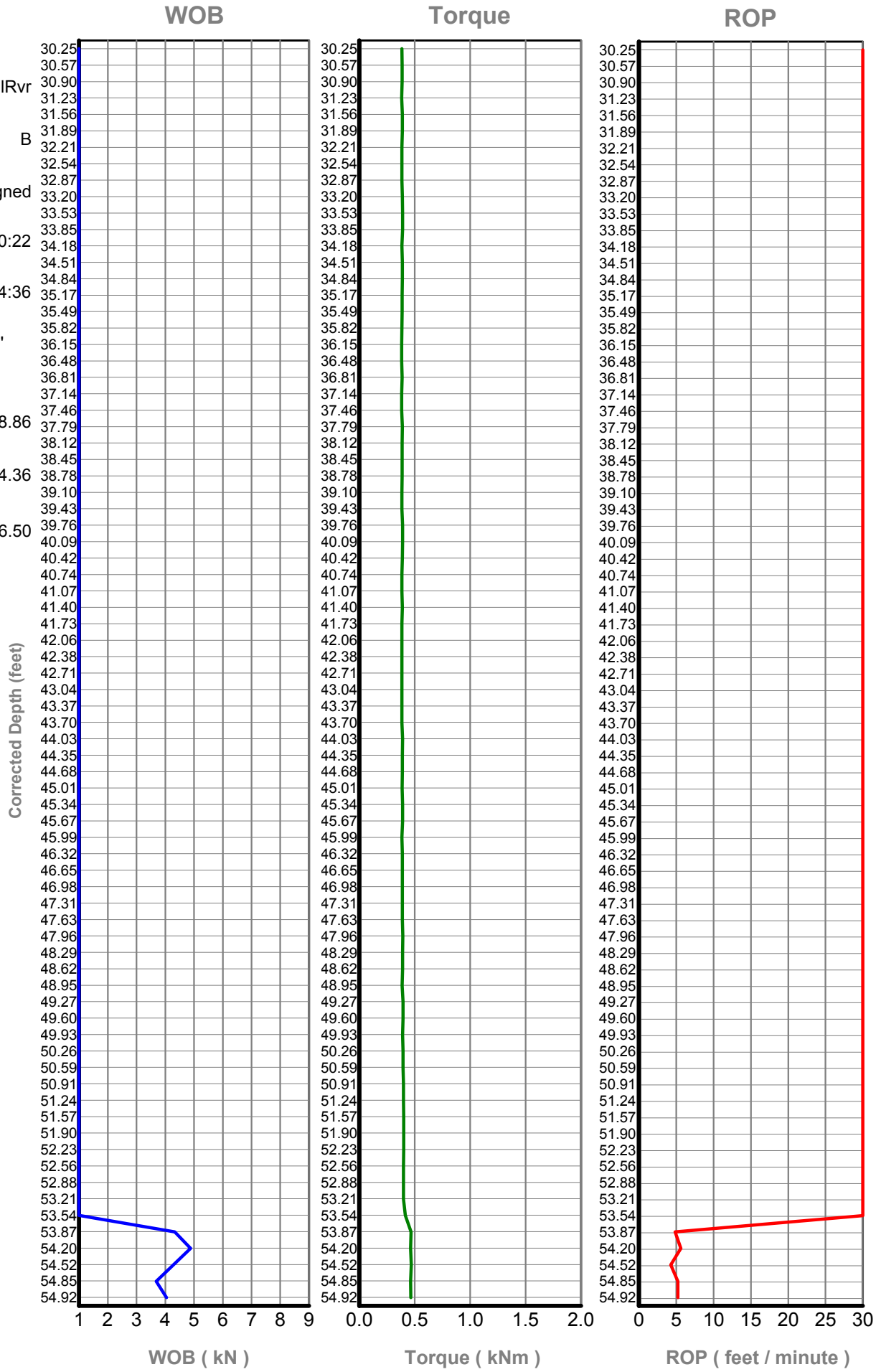
**End Date:**
5/1/2015 22:34:36

**Operator Note:**
'6.5 6.4b Auto Complete'

**Northing:**
359,148.86

**Easting:**
240,724.36

**Tide (feet):**
6.50



## Hole: M72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:30:29 | 36.75 | 30.25 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:29 | 37.07 | 30.57 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:29 | 37.40 | 30.90 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:30 | 37.73 | 31.23 | 988 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:30 | 38.06 | 31.56 | 988 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:30 | 38.39 | 31.89 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:30:31 | 38.71 | 32.21 | 987 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:31 | 39.04 | 32.54 | 987 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:31 | 39.37 | 32.87 | 987 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:32 | 39.70 | 33.20 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:32 | 40.03 | 33.53 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:32 | 40.35 | 33.85 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:33 | 40.68 | 34.18 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:33 | 41.01 | 34.51 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:34 | 41.34 | 34.84 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:34 | 41.67 | 35.17 | 988 | 1.14 | 0.29 | 54.0 |
| 5/1/2015 22:30:34 | 41.99 | 35.49 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:30:35 | 42.32 | 35.82 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/1/2015 22:30:35 | 42.65 | 36.15 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:35 | 42.98 | 36.48 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:36 | 43.31 | 36.81 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:36 | 43.64 | 37.14 | 990 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:36 | 43.96 | 37.46 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:37 | 44.29 | 37.79 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:37 | 44.62 | 38.12 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:37 | 44.95 | 38.45 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:30:38 | 45.28 | 38.78 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:30:39 | 45.60 | 39.10 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:30:39 | 45.93 | 39.43 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:39 | 46.26 | 39.76 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:40 | 46.59 | 40.09 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:40 | 46.92 | 40.42 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:40 | 47.24 | 40.74 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 22:30:41 | 47.57 | 41.07 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 22:30:41 | 47.90 | 41.40 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 22:30:41 | 48.23 | 41.73 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:42 | 48.56 | 42.06 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:42 | 48.88 | 42.38 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:30:42 | 49.21 | 42.71 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 22:30:43 | 49.54 | 43.04 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:43 | 49.87 | 43.37 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:43 | 50.20 | 43.70 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:44 | 50.53 | 44.03 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 22:30:44 | 50.85 | 44.35 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 22:30:44 | 51.18 | 44.68 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:45 | 51.51 | 45.01 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:45 | 51.84 | 45.34 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:45 | 52.17 | 45.67 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:46 | 52.49 | 45.99 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:46 | 52.82 | 46.32 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:47 | 53.15 | 46.65 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 22:30:47 | 53.48 | 46.98 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 22:30:47 | 53.81 | 47.31 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:48 | 54.13 | 47.63 | 992 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:30:48 | 54.46 | 47.96 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 22:30:48 | 54.79 | 48.29 | 968 | 1.14 | 0.29 | 52.9 |
| 5/1/2015 22:30:49 | 55.12 | 48.62 | 957 | 1.14 | 0.29 | 52.3 |
| 5/1/2015 22:30:50 | 55.45 | 48.95 | 957 | 1.14 | 0.29 | 52.3 |
| 5/1/2015 22:30:50 | 55.77 | 49.27 | 948 | 1.14 | 0.29 | 51.9 |
| 5/1/2015 22:30:50 | 56.10 | 49.60 | 937 | 1.14 | 0.29 | 51.2 |
| 5/1/2015 22:30:51 | 56.43 | 49.93 | 931 | 1.14 | 0.29 | 50.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 22:30:51 | 56.76 | 50.26 | 931 | 1.14 | 0.29 | 50.9 |
| 5/1/2015 | 22:31:28 | 57.09 | 50.59 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 | 22:31:54 | 57.41 | 50.91 | 75 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 22:31:58 | 57.74 | 51.24 | 64 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 | 22:32:04 | 58.07 | 51.57 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 22:32:08 | 58.40 | 51.90 | 81 | 1.14 | 0.29 | 4.5 |
| 5/1/2015 | 22:32:14 | 58.73 | 52.23 | 55 | 1.14 | 0.29 | 3.0 |
| 5/1/2015 | 22:32:21 | 59.06 | 52.56 | 41 | 1.14 | 0.29 | 2.2 |
| 5/1/2015 | 22:32:28 | 59.38 | 52.88 | 76 | 1.14 | 0.29 | 4.1 |
| 5/1/2015 | 22:32:35 | 59.71 | 53.21 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 22:32:43 | 60.04 | 53.54 | 51 | 1.14 | 0.29 | 2.8 |
| 5/1/2015 | 22:32:49 | 60.37 | 53.87 | 46 | 1.14 | 0.29 | 2.5 |
| 5/1/2015 | 22:32:57 | 60.70 | 54.20 | 49 | 1.14 | 0.29 | 2.7 |
| 5/1/2015 | 22:33:03 | 61.02 | 54.52 | 61 | 1.14 | 0.29 | 3.3 |
| 5/1/2015 | 22:33:07 | 61.35 | 54.85 | 79 | 1.14 | 0.29 | 4.3 |
| 5/1/2015 | 22:33:08 | 61.44 | 54.94 | 84 | 1.14 | 0.29 | 4.6 |

## M72 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:29:19

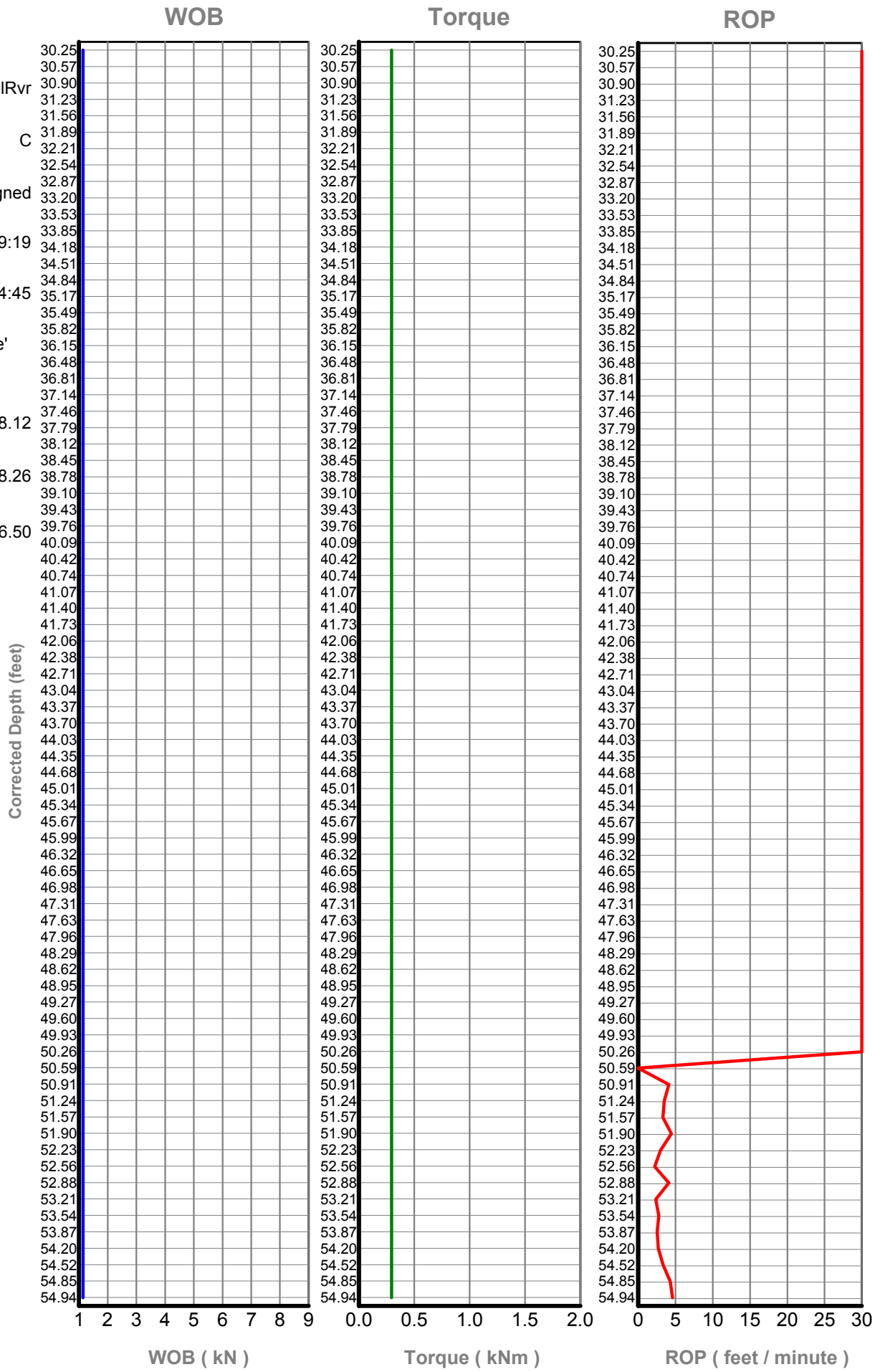
**End Date:**
5/1/2015 22:34:45

**Operator Note:**
'6.5 6.4 c Auto Complete'

**Northing:**
359,188.12

**Easting:**
240,788.26

**Tide (feet):**
6.50



## Hole: M73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:24:26 | 32.48 | 30.08 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/2/2015 5:24:27 | 32.81 | 30.41 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/2/2015 5:24:27 | 33.14 | 30.74 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/2/2015 5:24:27 | 33.46 | 31.06 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 5:24:28 | 33.79 | 31.39 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 5:24:28 | 34.12 | 31.72 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/2/2015 5:24:28 | 34.45 | 32.05 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/2/2015 5:24:28 | 34.78 | 32.38 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 5:24:29 | 35.11 | 32.71 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 5:24:29 | 35.43 | 33.03 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 5:24:29 | 35.76 | 33.36 | 1,199 | 0.54 | 0.17 | 65.6 |
| 5/2/2015 5:24:30 | 36.09 | 33.69 | 1,199 | 0.54 | 0.17 | 65.6 |
| 5/2/2015 5:24:30 | 36.42 | 34.02 | 1,217 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 5:24:31 | 36.75 | 34.35 | 1,217 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 5:24:31 | 37.07 | 34.67 | 1,206 | 0.54 | 0.17 | 66.0 |
| 5/2/2015 5:24:31 | 37.40 | 35.00 | 1,206 | 0.54 | 0.17 | 66.0 |
| 5/2/2015 5:24:31 | 37.73 | 35.33 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/2/2015 5:24:32 | 38.06 | 35.66 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/2/2015 5:24:32 | 38.39 | 35.99 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/2/2015 5:24:32 | 38.71 | 36.31 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/2/2015 5:24:33 | 39.04 | 36.64 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/2/2015 5:24:33 | 39.37 | 36.97 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/2/2015 5:24:33 | 39.70 | 37.30 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/2/2015 5:24:33 | 40.03 | 37.63 | 1,207 | 0.54 | 0.17 | 66.0 |
| 5/2/2015 5:24:34 | 40.35 | 37.95 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/2/2015 5:24:34 | 40.68 | 38.28 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/2/2015 5:24:34 | 41.01 | 38.61 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 5:24:35 | 41.34 | 38.94 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 5:24:35 | 41.67 | 39.27 | 1,199 | 0.54 | 0.17 | 65.6 |
| 5/2/2015 5:24:35 | 41.99 | 39.59 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 5:24:36 | 42.32 | 39.92 | 979 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 5:24:36 | 42.65 | 40.25 | 865 | 0.54 | 0.17 | 47.3 |
| 5/2/2015 5:24:37 | 42.98 | 40.58 | 756 | 0.54 | 0.17 | 41.3 |
| 5/2/2015 5:24:37 | 43.31 | 40.91 | 656 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 5:24:38 | 43.64 | 41.24 | 657 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 5:24:39 | 43.96 | 41.56 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:24:39 | 44.29 | 41.89 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:24:40 | 44.62 | 42.22 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:24:40 | 44.95 | 42.55 | 678 | 0.54 | 0.17 | 37.1 |
| 5/2/2015 5:24:41 | 45.28 | 42.88 | 670 | 0.54 | 0.17 | 36.6 |
| 5/2/2015 5:24:42 | 45.60 | 43.20 | 671 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:24:42 | 45.93 | 43.53 | 672 | 0.54 | 0.17 | 36.8 |
| 5/2/2015 5:24:43 | 46.26 | 43.86 | 675 | 0.54 | 0.17 | 36.9 |
| 5/2/2015 5:24:43 | 46.59 | 44.19 | 672 | 0.54 | 0.17 | 36.8 |
| 5/2/2015 5:24:44 | 46.92 | 44.52 | 680 | 0.54 | 0.17 | 37.2 |
| 5/2/2015 5:24:44 | 47.24 | 44.84 | 673 | 0.54 | 0.17 | 36.8 |
| 5/2/2015 5:24:45 | 47.57 | 45.17 | 669 | 0.54 | 0.17 | 36.6 |
| 5/2/2015 5:24:45 | 47.90 | 45.50 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:24:46 | 48.23 | 45.83 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:24:46 | 48.56 | 46.16 | 663 | 0.54 | 0.17 | 36.2 |
| 5/2/2015 5:24:47 | 48.88 | 46.48 | 662 | 0.54 | 0.17 | 36.2 |
| 5/2/2015 5:24:47 | 49.21 | 46.81 | 660 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 5:24:48 | 49.54 | 47.14 | 657 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 5:24:48 | 49.87 | 47.47 | 660 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 5:24:49 | 50.20 | 47.80 | 663 | 0.54 | 0.17 | 36.3 |
| 5/2/2015 5:24:49 | 50.53 | 48.13 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:24:50 | 50.85 | 48.45 | 672 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:24:50 | 51.18 | 48.78 | 671 | 0.54 | 0.17 | 36.7 |
| 5/2/2015 5:24:51 | 51.51 | 49.11 | 666 | 0.54 | 0.17 | 36.4 |
| 5/2/2015 5:24:51 | 51.84 | 49.44 | 663 | 0.54 | 0.17 | 36.2 |
| 5/2/2015 5:24:52 | 52.17 | 49.77 | 657 | 0.54 | 0.17 | 35.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:24:53 | 52.49 | 50.09 | 641 | 0.54 | 0.17 | 35.1 |
| 5/2/2015 | 5:25:17 | 52.82 | 50.42 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 | 5:25:18 | 53.15 | 50.75 | 126 | 0.54 | 0.17 | 6.9 |
| 5/2/2015 | 5:25:20 | 53.48 | 51.08 | 273 | 0.54 | 0.17 | 14.9 |
| 5/2/2015 | 5:25:21 | 53.81 | 51.41 | 247 | 0.54 | 0.17 | 13.5 |
| 5/2/2015 | 5:25:33 | 54.13 | 51.73 | 21 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 | 5:25:33 | 54.46 | 52.06 | 86 | 0.54 | 0.17 | 4.7 |
| 5/2/2015 | 5:25:34 | 54.79 | 52.39 | 259 | 0.54 | 0.17 | 14.2 |
| 5/2/2015 | 5:25:35 | 55.12 | 52.72 | 335 | 0.54 | 0.17 | 18.3 |
| 5/2/2015 | 5:25:36 | 55.45 | 53.05 | 456 | 0.54 | 0.17 | 24.9 |
| 5/2/2015 | 5:25:36 | 55.77 | 53.37 | 490 | 0.54 | 0.17 | 26.8 |
| 5/2/2015 | 5:25:37 | 56.10 | 53.70 | 561 | 0.54 | 0.17 | 30.7 |
| 5/2/2015 | 5:25:37 | 56.43 | 54.03 | 620 | 0.54 | 0.17 | 33.9 |
| 5/2/2015 | 5:25:38 | 56.76 | 54.36 | 657 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 | 5:25:40 | 57.09 | 54.69 | 271 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 | 5:25:43 | 57.41 | 55.01 | 118 | 0.54 | 0.17 | 6.5 |

## M73 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:14:02

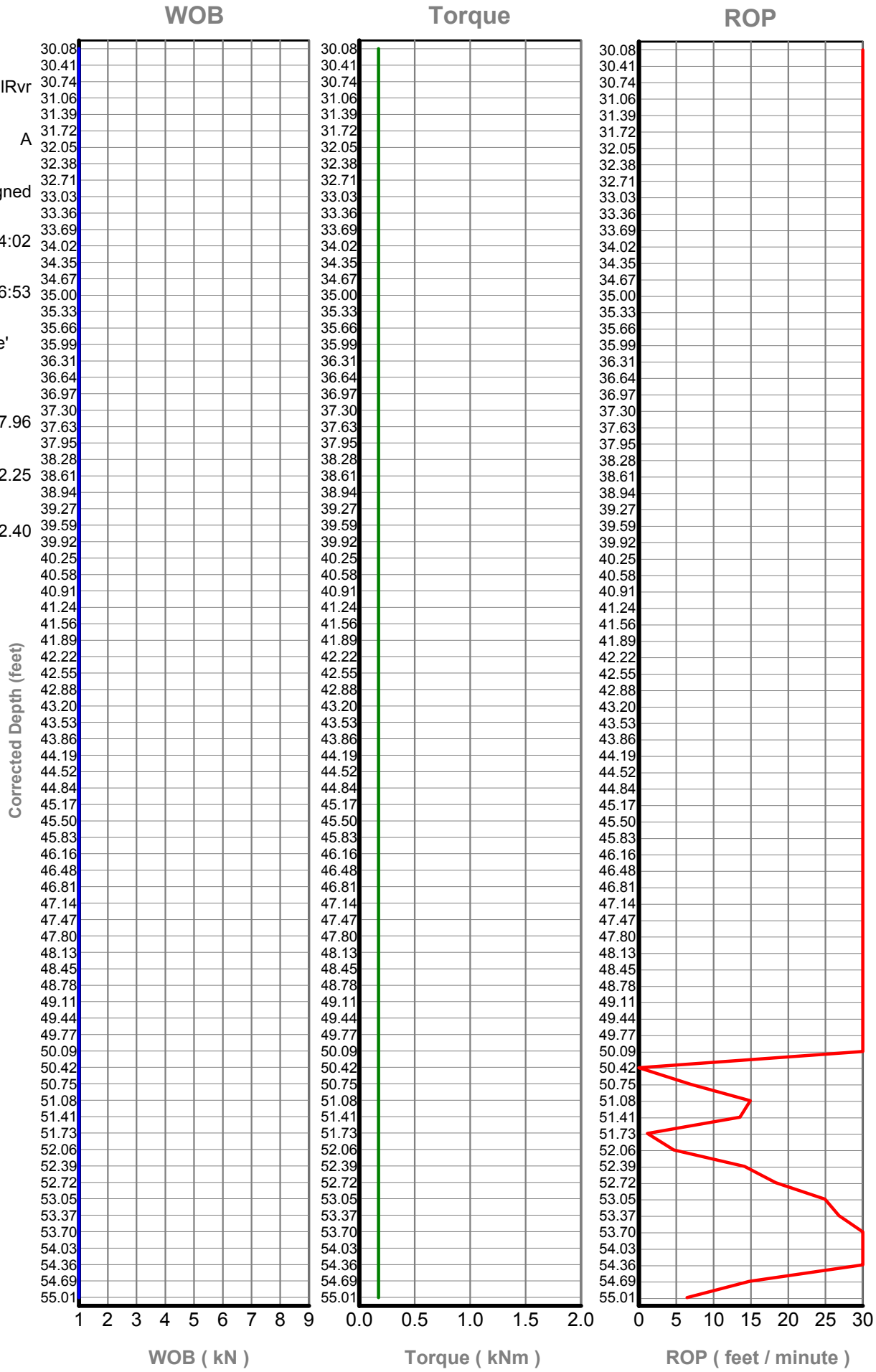
**End Date:**
5/2/2015 5:26:53

**Operator Note:**
'2.4 2.4 a Auto Complete'

**Northing:**
358,677.96

**Easting:**
240,132.25

**Tide (feet):**
2.40



## Hole: M74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:24:38 | 32.48 | 30.18 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 5:24:39 | 32.81 | 30.51 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/2/2015 5:24:39 | 33.14 | 30.84 | 1,161 | 0.30 | 0.37 | 63.5 |
| 5/2/2015 5:24:39 | 33.46 | 31.16 | 1,161 | 0.30 | 0.37 | 63.5 |
| 5/2/2015 5:24:39 | 33.79 | 31.49 | 1,151 | 0.30 | 0.36 | 63.0 |
| 5/2/2015 5:24:40 | 34.12 | 31.82 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:24:40 | 34.45 | 32.15 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:24:40 | 34.78 | 32.48 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/2/2015 5:24:41 | 35.11 | 32.81 | 1,174 | 0.31 | 0.38 | 64.2 |
| 5/2/2015 5:24:41 | 35.43 | 33.13 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 5:24:41 | 35.76 | 33.46 | 1,190 | 0.30 | 0.37 | 65.1 |
| 5/2/2015 5:24:41 | 36.09 | 33.79 | 1,187 | 0.30 | 0.38 | 64.9 |
| 5/2/2015 5:24:42 | 36.42 | 34.12 | 1,177 | 0.30 | 0.36 | 64.4 |
| 5/2/2015 5:24:42 | 36.75 | 34.45 | 1,177 | 0.30 | 0.36 | 64.4 |
| 5/2/2015 5:24:42 | 37.07 | 34.77 | 1,183 | 0.31 | 0.36 | 64.7 |
| 5/2/2015 5:24:43 | 37.40 | 35.10 | 1,183 | 0.31 | 0.36 | 64.7 |
| 5/2/2015 5:24:43 | 37.73 | 35.43 | 1,183 | 0.30 | 0.37 | 64.7 |
| 5/2/2015 5:24:43 | 38.06 | 35.76 | 1,157 | 0.30 | 0.36 | 63.3 |
| 5/2/2015 5:24:44 | 38.39 | 36.09 | 1,157 | 0.30 | 0.36 | 63.3 |
| 5/2/2015 5:24:44 | 38.71 | 36.41 | 1,157 | 0.30 | 0.37 | 63.3 |
| 5/2/2015 5:24:44 | 39.04 | 36.74 | 1,157 | 0.30 | 0.37 | 63.3 |
| 5/2/2015 5:24:44 | 39.37 | 37.07 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 5:24:45 | 39.70 | 37.40 | 1,166 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 5:24:45 | 40.03 | 37.73 | 1,165 | 0.30 | 0.37 | 63.7 |
| 5/2/2015 5:24:46 | 40.35 | 38.05 | 1,189 | 0.30 | 0.38 | 65.0 |
| 5/2/2015 5:24:46 | 40.68 | 38.38 | 1,189 | 0.30 | 0.38 | 65.0 |
| 5/2/2015 5:24:46 | 41.01 | 38.71 | 1,155 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 5:24:47 | 41.34 | 39.04 | 1,155 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 5:24:47 | 41.67 | 39.37 | 1,155 | 0.30 | 0.36 | 63.1 |
| 5/2/2015 5:24:47 | 41.99 | 39.69 | 1,155 | 0.30 | 0.36 | 63.1 |
| 5/2/2015 5:24:47 | 42.32 | 40.02 | 1,188 | 0.31 | 0.37 | 64.9 |
| 5/2/2015 5:24:48 | 42.65 | 40.35 | 1,165 | 0.31 | 0.36 | 63.7 |
| 5/2/2015 5:24:48 | 42.98 | 40.68 | 1,165 | 0.31 | 0.36 | 63.7 |
| 5/2/2015 5:24:48 | 43.31 | 41.01 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 5:24:49 | 43.64 | 41.34 | 1,184 | 0.31 | 0.37 | 64.7 |
| 5/2/2015 5:24:49 | 43.96 | 41.66 | 1,150 | 0.31 | 0.37 | 62.9 |
| 5/2/2015 5:24:49 | 44.29 | 41.99 | 1,187 | 0.31 | 0.36 | 64.9 |
| 5/2/2015 5:24:50 | 44.62 | 42.32 | 1,187 | 0.31 | 0.36 | 64.9 |
| 5/2/2015 5:24:50 | 44.95 | 42.65 | 1,187 | 0.30 | 0.37 | 64.9 |
| 5/2/2015 5:24:50 | 45.28 | 42.98 | 1,187 | 0.30 | 0.37 | 64.9 |
| 5/2/2015 5:24:50 | 45.60 | 43.30 | 1,173 | 0.31 | 0.35 | 64.1 |
| 5/2/2015 5:24:51 | 45.93 | 43.63 | 1,173 | 0.31 | 0.35 | 64.1 |
| 5/2/2015 5:24:51 | 46.26 | 43.96 | 1,167 | 0.31 | 0.37 | 63.8 |
| 5/2/2015 5:24:51 | 46.59 | 44.29 | 1,157 | 0.30 | 0.37 | 63.3 |
| 5/2/2015 5:24:52 | 46.92 | 44.62 | 1,157 | 0.30 | 0.37 | 63.3 |
| 5/2/2015 5:24:52 | 47.24 | 44.94 | 1,184 | 0.30 | 0.37 | 64.7 |
| 5/2/2015 5:24:52 | 47.57 | 45.27 | 1,184 | 0.30 | 0.37 | 64.7 |
| 5/2/2015 5:24:52 | 47.90 | 45.60 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:24:53 | 48.23 | 45.93 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:24:53 | 48.56 | 46.26 | 1,183 | 0.31 | 0.36 | 64.7 |
| 5/2/2015 5:24:53 | 48.88 | 46.58 | 1,183 | 0.31 | 0.36 | 64.7 |
| 5/2/2015 5:24:54 | 49.21 | 46.91 | 1,183 | 0.31 | 0.36 | 64.7 |
| 5/2/2015 5:24:54 | 49.54 | 47.24 | 1,193 | 0.30 | 0.37 | 65.3 |
| 5/2/2015 5:24:54 | 49.87 | 47.57 | 1,193 | 0.30 | 0.37 | 65.3 |
| 5/2/2015 5:24:54 | 50.20 | 47.90 | 1,193 | 0.31 | 0.37 | 65.3 |
| 5/2/2015 5:24:55 | 50.53 | 48.23 | 1,190 | 0.31 | 0.37 | 65.1 |
| 5/2/2015 5:24:55 | 50.85 | 48.55 | 1,190 | 0.31 | 0.37 | 65.1 |
| 5/2/2015 5:24:55 | 51.18 | 48.88 | 1,185 | 0.32 | 0.38 | 64.8 |
| 5/2/2015 5:24:56 | 51.51 | 49.21 | 1,185 | 0.32 | 0.38 | 64.8 |
| 5/2/2015 5:24:56 | 51.84 | 49.54 | 1,175 | 0.30 | 0.37 | 64.2 |
| 5/2/2015 5:24:57 | 52.17 | 49.87 | 1,137 | 0.29 | 0.41 | 62.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:24:57 | 52.49 | 50.19 | 1,078 | 0.28 | 0.47 | 58.9 |
| 5/2/2015 | 5:25:06 | 52.82 | 50.52 | 59 | 4.38 | 0.44 | 3.2 |
| 5/2/2015 | 5:25:07 | 53.15 | 50.85 | 197 | 4.05 | 0.43 | 10.8 |
| 5/2/2015 | 5:25:08 | 53.48 | 51.18 | 248 | 4.06 | 0.44 | 13.5 |
| 5/2/2015 | 5:25:09 | 53.81 | 51.51 | 327 | 3.53 | 0.43 | 17.9 |
| 5/2/2015 | 5:25:10 | 54.13 | 51.83 | 357 | 3.36 | 0.42 | 19.5 |
| 5/2/2015 | 5:25:10 | 54.46 | 52.16 | 389 | 2.99 | 0.42 | 21.3 |
| 5/2/2015 | 5:25:15 | 54.79 | 52.49 | 0 | 3.39 | 0.44 | 0.0 |
| 5/2/2015 | 5:25:18 | 55.12 | 52.82 | 123 | 3.42 | 0.46 | 6.8 |
| 5/2/2015 | 5:25:21 | 55.45 | 53.15 | 112 | 4.03 | 0.46 | 6.1 |
| 5/2/2015 | 5:25:24 | 55.77 | 53.47 | 110 | 3.39 | 0.46 | 6.0 |
| 5/2/2015 | 5:25:28 | 56.10 | 53.80 | 116 | 3.69 | 0.46 | 6.3 |
| 5/2/2015 | 5:25:32 | 56.43 | 54.13 | 87 | 3.25 | 0.46 | 4.7 |
| 5/2/2015 | 5:25:36 | 56.76 | 54.46 | 81 | 3.28 | 0.47 | 4.4 |
| 5/2/2015 | 5:25:41 | 57.09 | 54.79 | 82 | 3.33 | 0.46 | 4.5 |
| 5/2/2015 | 5:25:45 | 57.41 | 55.11 | 81 | 3.30 | 0.46 | 4.4 |

## M74 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:23:04

**End Date:**
5/2/2015 5:27:23

**Operator Note:**
'2.3 2.4b Auto Complete'

**Northing:**
358,716.63

**Easting:**
240,196.51

**Tide (feet):**
2.30



## Hole: M75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:23:13 | 32.48 | 30.18 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:23:14 | 32.81 | 30.51 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:23:14 | 33.14 | 30.84 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 5:23:14 | 33.46 | 31.16 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:23:15 | 33.79 | 31.49 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:23:15 | 34.12 | 31.82 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 5:23:15 | 34.45 | 32.15 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:23:16 | 34.78 | 32.48 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:23:16 | 35.11 | 32.81 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:23:16 | 35.43 | 33.13 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:23:17 | 35.76 | 33.46 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:23:17 | 36.09 | 33.79 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 5:23:18 | 36.42 | 34.12 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:18 | 36.75 | 34.45 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:18 | 37.07 | 34.77 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:19 | 37.40 | 35.10 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:19 | 37.73 | 35.43 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:19 | 38.06 | 35.76 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 5:23:20 | 38.39 | 36.09 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:23:20 | 38.71 | 36.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:23:20 | 39.04 | 36.74 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:21 | 39.37 | 37.07 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:23:21 | 39.70 | 37.40 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:23:21 | 40.03 | 37.73 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:23:22 | 40.35 | 38.05 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:22 | 40.68 | 38.38 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:22 | 41.01 | 38.71 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:23:23 | 41.34 | 39.04 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:23 | 41.67 | 39.37 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:23 | 41.99 | 39.69 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:23:24 | 42.32 | 40.02 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:23:24 | 42.65 | 40.35 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:23:24 | 42.98 | 40.68 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:23:25 | 43.31 | 41.01 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:23:25 | 43.64 | 41.34 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:23:25 | 43.96 | 41.66 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 5:23:26 | 44.29 | 41.99 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:26 | 44.62 | 42.32 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:26 | 44.95 | 42.65 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:23:27 | 45.28 | 42.98 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 5:23:27 | 45.60 | 43.30 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 5:23:28 | 45.93 | 43.63 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 5:23:28 | 46.26 | 43.96 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 5:23:28 | 46.59 | 44.29 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 5:23:28 | 46.92 | 44.62 | 1,007 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 5:23:29 | 47.24 | 44.94 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 5:23:30 | 47.57 | 45.27 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 5:23:30 | 47.90 | 45.60 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 5:23:30 | 48.23 | 45.93 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 5:23:31 | 48.56 | 46.26 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 5:23:31 | 48.88 | 46.58 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 5:23:31 | 49.21 | 46.91 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 5:23:32 | 49.54 | 47.24 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 5:23:32 | 49.87 | 47.57 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 5:23:32 | 50.20 | 47.90 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 5:23:33 | 50.53 | 48.23 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 5:23:45 | 50.85 | 48.55 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 5:23:46 | 51.18 | 48.88 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 5:23:47 | 51.51 | 49.21 | 139 | 1.14 | 0.29 | 7.6 |
| 5/2/2015 5:23:49 | 51.84 | 49.54 | 276 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 5:23:54 | 52.17 | 49.87 | 74 | 1.14 | 0.29 | 4.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:23:59 | 52.49 | 50.19 | 65 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 | 5:24:05 | 52.82 | 50.52 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 | 5:24:11 | 53.15 | 50.85 | 61 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 | 5:24:14 | 53.38 | 51.08 | 76 | 1.14 | 0.29 | 4.1 |

## M75 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:22:13

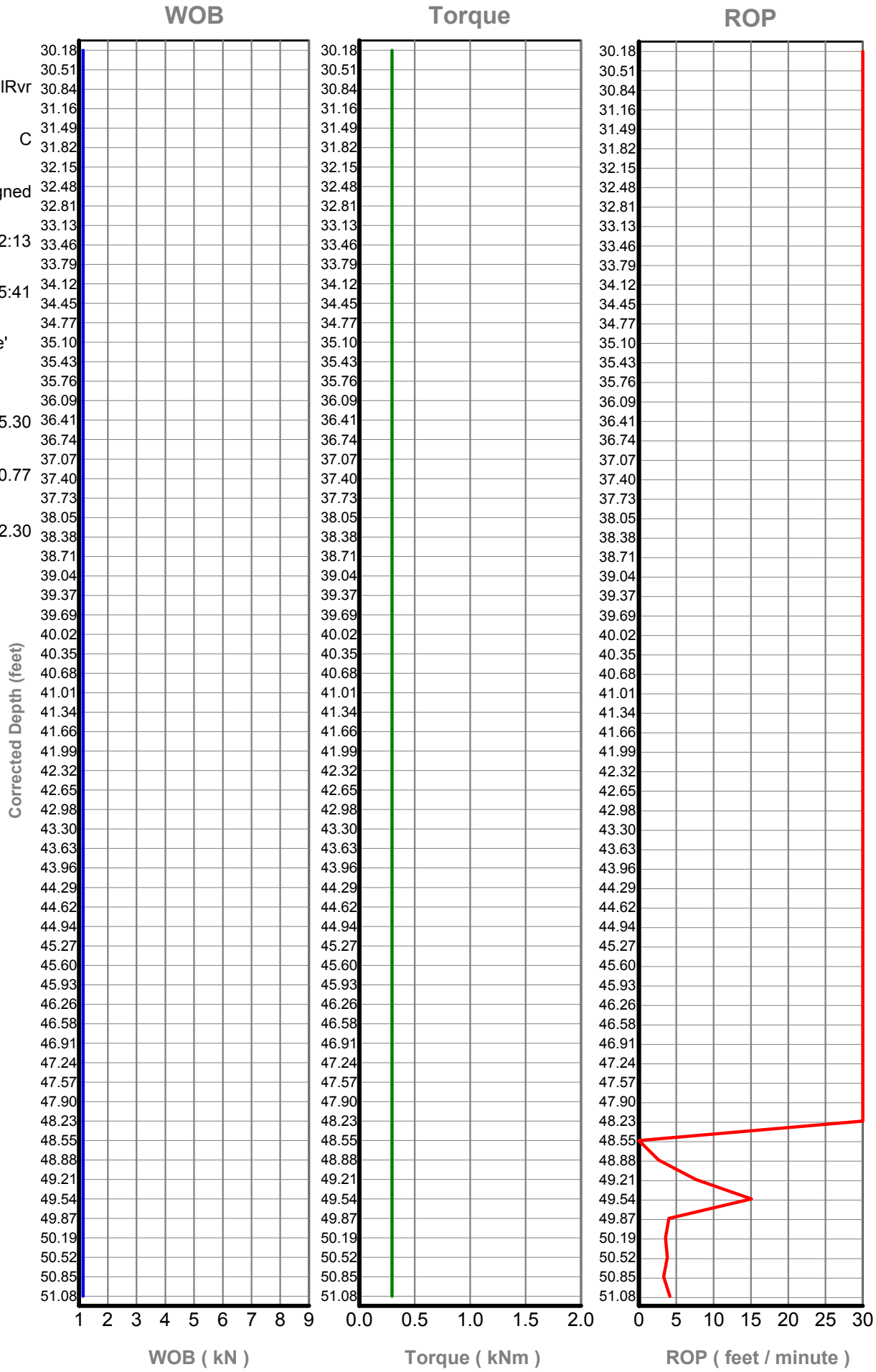
**End Date:**
5/2/2015 5:25:41

**Operator Note:**
'2.3 2.4 c Auto Complete'

**Northing:**
358,755.30

**Easting:**
240,260.77

**Tide (feet):**
2.30



## Hole: M76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:15:43 | 35.43 | 30.03 | 726 | 1.10 | 0.21 | 39.7 |
| 5/2/2015 2:15:43 | 35.76 | 30.36 | 726 | 1.12 | 0.21 | 39.7 |
| 5/2/2015 2:15:44 | 36.09 | 30.69 | 726 | 1.12 | 0.21 | 39.7 |
| 5/2/2015 2:15:44 | 36.42 | 31.02 | 734 | 1.11 | 0.21 | 40.1 |
| 5/2/2015 2:15:44 | 36.75 | 31.35 | 728 | 1.10 | 0.20 | 39.8 |
| 5/2/2015 2:15:45 | 37.07 | 31.67 | 732 | 1.11 | 0.20 | 40.0 |
| 5/2/2015 2:15:45 | 37.40 | 32.00 | 737 | 1.11 | 0.20 | 40.3 |
| 5/2/2015 2:15:46 | 37.73 | 32.33 | 749 | 1.10 | 0.20 | 40.9 |
| 5/2/2015 2:15:46 | 38.06 | 32.66 | 738 | 1.11 | 0.20 | 40.4 |
| 5/2/2015 2:15:47 | 38.39 | 32.99 | 738 | 1.10 | 0.20 | 40.4 |
| 5/2/2015 2:15:47 | 38.71 | 33.31 | 743 | 1.11 | 0.18 | 40.6 |
| 5/2/2015 2:15:48 | 39.04 | 33.64 | 746 | 1.14 | 0.20 | 40.8 |
| 5/2/2015 2:15:48 | 39.37 | 33.97 | 743 | 1.11 | 0.20 | 40.7 |
| 5/2/2015 2:15:49 | 39.70 | 34.30 | 743 | 1.11 | 0.21 | 40.7 |
| 5/2/2015 2:15:49 | 40.03 | 34.63 | 745 | 1.10 | 0.20 | 40.7 |
| 5/2/2015 2:15:50 | 40.35 | 34.95 | 745 | 1.10 | 0.20 | 40.7 |
| 5/2/2015 2:15:50 | 40.68 | 35.28 | 736 | 1.10 | 0.20 | 40.2 |
| 5/2/2015 2:15:51 | 41.01 | 35.61 | 720 | 1.09 | 0.21 | 39.4 |
| 5/2/2015 2:15:51 | 41.34 | 35.94 | 720 | 1.10 | 0.20 | 39.4 |
| 5/2/2015 2:15:52 | 41.67 | 36.27 | 720 | 1.10 | 0.20 | 39.4 |
| 5/2/2015 2:15:52 | 41.99 | 36.59 | 720 | 1.10 | 0.18 | 39.4 |
| 5/2/2015 2:15:53 | 42.32 | 36.92 | 720 | 1.11 | 0.21 | 39.4 |
| 5/2/2015 2:15:53 | 42.65 | 37.25 | 734 | 1.09 | 0.20 | 40.2 |
| 5/2/2015 2:15:54 | 42.98 | 37.58 | 734 | 1.10 | 0.20 | 40.1 |
| 5/2/2015 2:15:54 | 43.31 | 37.91 | 724 | 1.10 | 0.20 | 39.6 |
| 5/2/2015 2:15:55 | 43.64 | 38.24 | 724 | 1.11 | 0.20 | 39.6 |
| 5/2/2015 2:15:55 | 43.96 | 38.56 | 737 | 1.10 | 0.20 | 40.3 |
| 5/2/2015 2:15:56 | 44.29 | 38.89 | 726 | 1.10 | 0.20 | 39.7 |
| 5/2/2015 2:15:56 | 44.62 | 39.22 | 726 | 1.11 | 0.20 | 39.7 |
| 5/2/2015 2:15:57 | 44.95 | 39.55 | 717 | 1.01 | 0.20 | 39.2 |
| 5/2/2015 2:15:57 | 45.28 | 39.88 | 717 | 1.01 | 0.20 | 39.2 |
| 5/2/2015 2:15:57 | 45.60 | 40.20 | 708 | 1.10 | 0.20 | 38.7 |
| 5/2/2015 2:15:58 | 45.93 | 40.53 | 708 | 1.11 | 0.20 | 38.7 |
| 5/2/2015 2:15:58 | 46.26 | 40.86 | 738 | 1.09 | 0.20 | 40.3 |
| 5/2/2015 2:15:59 | 46.59 | 41.19 | 724 | 1.10 | 0.20 | 39.6 |
| 5/2/2015 2:15:59 | 46.92 | 41.52 | 735 | 1.12 | 0.20 | 40.2 |
| 5/2/2015 2:16:00 | 47.24 | 41.84 | 723 | 1.11 | 0.21 | 39.5 |
| 5/2/2015 2:16:01 | 47.57 | 42.17 | 741 | 1.09 | 0.20 | 40.5 |
| 5/2/2015 2:16:01 | 47.90 | 42.50 | 728 | 1.10 | 0.20 | 39.8 |
| 5/2/2015 2:16:02 | 48.23 | 42.83 | 732 | 1.11 | 0.20 | 40.0 |
| 5/2/2015 2:16:02 | 48.56 | 43.16 | 711 | 1.11 | 0.20 | 38.9 |
| 5/2/2015 2:16:03 | 48.88 | 43.48 | 711 | 1.09 | 0.20 | 38.9 |
| 5/2/2015 2:16:03 | 49.21 | 43.81 | 727 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:16:04 | 49.54 | 44.14 | 710 | 1.11 | 0.20 | 38.8 |
| 5/2/2015 2:16:04 | 49.87 | 44.47 | 719 | 1.10 | 0.20 | 39.3 |
| 5/2/2015 2:16:05 | 50.20 | 44.80 | 719 | 1.10 | 0.20 | 39.3 |
| 5/2/2015 2:16:05 | 50.53 | 45.13 | 719 | 1.10 | 0.20 | 39.3 |
| 5/2/2015 2:16:05 | 50.85 | 45.45 | 716 | 1.11 | 0.20 | 39.1 |
| 5/2/2015 2:16:06 | 51.18 | 45.78 | 741 | 1.11 | 0.20 | 40.5 |
| 5/2/2015 2:16:06 | 51.51 | 46.11 | 731 | 1.10 | 0.20 | 40.0 |
| 5/2/2015 2:16:07 | 51.84 | 46.44 | 740 | 1.08 | 0.20 | 40.5 |
| 5/2/2015 2:16:07 | 52.17 | 46.77 | 728 | 1.11 | 0.20 | 39.8 |
| 5/2/2015 2:16:08 | 52.49 | 47.09 | 717 | 1.10 | 0.20 | 39.2 |
| 5/2/2015 2:16:08 | 52.82 | 47.42 | 711 | 1.12 | 0.20 | 38.9 |
| 5/2/2015 2:16:09 | 53.15 | 47.75 | 711 | 1.11 | 0.20 | 38.9 |
| 5/2/2015 2:16:09 | 53.48 | 48.08 | 704 | 1.13 | 0.20 | 38.5 |
| 5/2/2015 2:16:10 | 53.81 | 48.41 | 704 | 1.12 | 0.20 | 38.5 |
| 5/2/2015 2:16:17 | 54.13 | 48.73 | 0 | 1.14 | 0.97 | 0.0 |
| 5/2/2015 2:16:19 | 54.46 | 49.06 | 112 | 1.14 | 1.31 | 6.1 |
| 5/2/2015 2:16:27 | 54.79 | 49.39 | 36 | 1.83 | 1.48 | 2.0 |
| 5/2/2015 2:16:33 | 55.12 | 49.72 | 45 | 1.16 | 1.13 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:16:39 | 55.45 | 50.05 | 58 | 1.13 | 1.06 | 3.2 |
| 5/2/2015 | 2:16:46 | 55.77 | 50.37 | 60 | 1.16 | 1.15 | 3.3 |
| 5/2/2015 | 2:16:50 | 56.10 | 50.70 | 93 | 1.11 | 1.15 | 5.1 |
| 5/2/2015 | 2:16:53 | 56.43 | 51.03 | 130 | 1.09 | 1.07 | 7.1 |
| 5/2/2015 | 2:16:55 | 56.76 | 51.36 | 155 | 1.12 | 1.21 | 8.5 |
| 5/2/2015 | 2:16:57 | 57.09 | 51.69 | 189 | 1.08 | 1.25 | 10.4 |
| 5/2/2015 | 2:16:58 | 57.41 | 52.01 | 198 | 1.13 | 1.27 | 10.8 |
| 5/2/2015 | 2:17:00 | 57.74 | 52.34 | 187 | 1.11 | 1.25 | 10.2 |
| 5/2/2015 | 2:17:03 | 58.07 | 52.67 | 150 | 1.13 | 1.13 | 8.2 |
| 5/2/2015 | 2:17:06 | 58.40 | 53.00 | 123 | 1.10 | 1.12 | 6.7 |
| 5/2/2015 | 2:17:09 | 58.73 | 53.33 | 127 | 1.10 | 1.09 | 7.0 |
| 5/2/2015 | 2:17:10 | 59.06 | 53.66 | 154 | 1.08 | 1.34 | 8.4 |
| 5/2/2015 | 2:17:12 | 59.38 | 53.98 | 224 | 1.09 | 1.16 | 12.2 |
| 5/2/2015 | 2:17:14 | 59.71 | 54.31 | 226 | 1.19 | 1.27 | 12.4 |
| 5/2/2015 | 2:17:17 | 60.04 | 54.64 | 131 | 1.10 | 1.29 | 7.2 |
| 5/2/2015 | 2:17:22 | 60.37 | 54.97 | 70 | 1.09 | 1.01 | 3.8 |
| 5/2/2015 | 2:17:31 | 60.70 | 55.30 | 40 | 1.01 | 1.07 | 2.2 |
| 5/2/2015 | 2:17:33 | 60.79 | 55.39 | 52 | 1.18 | 1.17 | 2.9 |

## M76 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:13:07

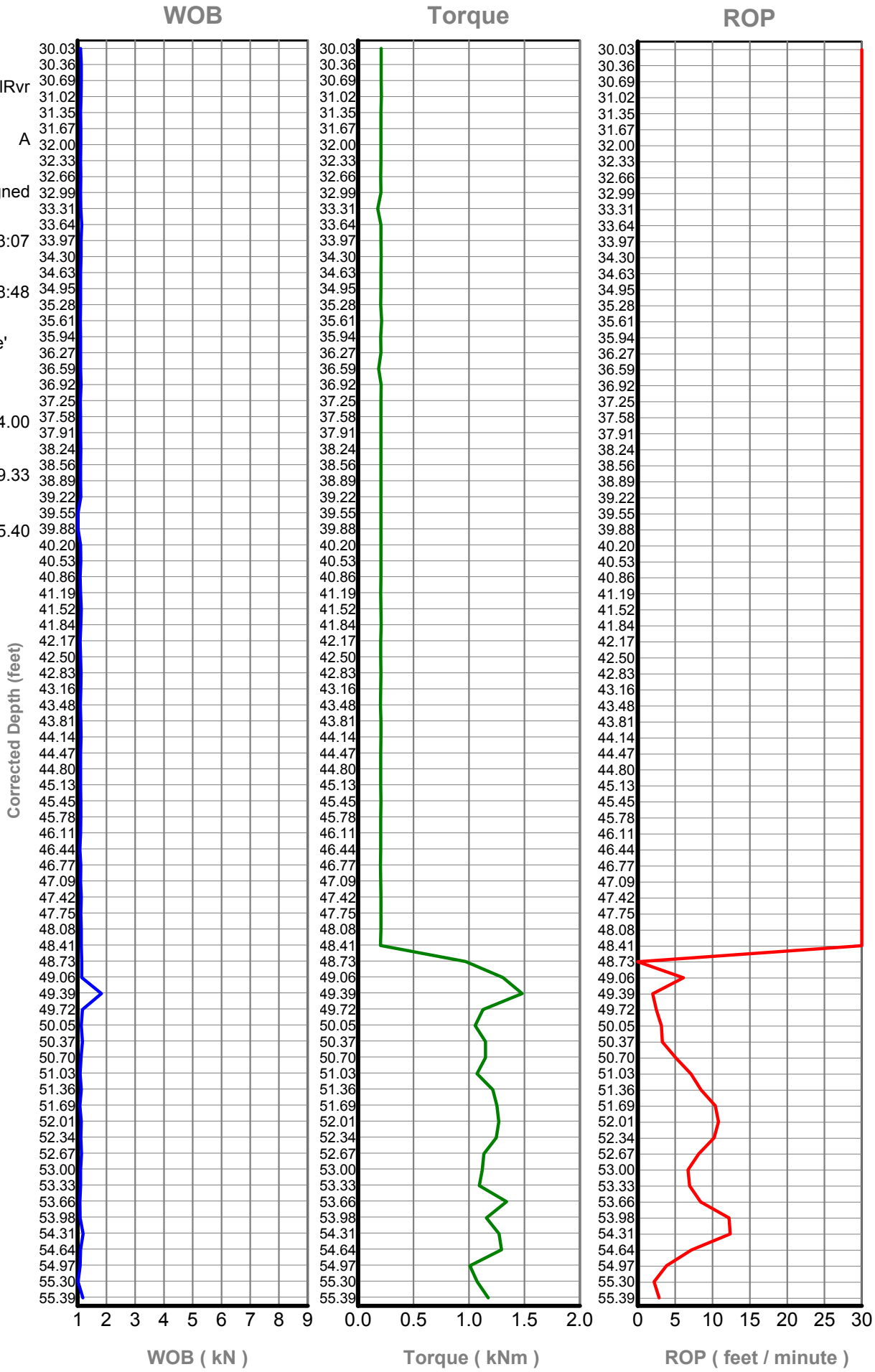
**End Date:**
5/2/2015 2:18:48

**Operator Note:**
'5.4 5.8 a Auto Complete'

**Northing:**
358,794.00

**Easting:**
240,319.33

**Tide (feet):**
5.40



## Hole: M77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:16:03 | 35.43 | 30.03 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:16:03 | 35.76 | 30.36 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:16:03 | 36.09 | 30.69 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/2/2015 2:16:04 | 36.42 | 31.02 | 1,131 | 0.32 | 0.38 | 61.8 |
| 5/2/2015 2:16:04 | 36.75 | 31.35 | 1,131 | 0.32 | 0.37 | 61.8 |
| 5/2/2015 2:16:04 | 37.07 | 31.67 | 1,146 | 0.33 | 0.38 | 62.7 |
| 5/2/2015 2:16:05 | 37.40 | 32.00 | 1,146 | 0.33 | 0.38 | 62.7 |
| 5/2/2015 2:16:05 | 37.73 | 32.33 | 1,131 | 0.33 | 0.37 | 61.8 |
| 5/2/2015 2:16:06 | 38.06 | 32.66 | 1,131 | 0.33 | 0.37 | 61.8 |
| 5/2/2015 2:16:06 | 38.39 | 32.99 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 2:16:06 | 38.71 | 33.31 | 1,145 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 2:16:06 | 39.04 | 33.64 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/2/2015 2:16:07 | 39.37 | 33.97 | 1,146 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 2:16:07 | 39.70 | 34.30 | 1,146 | 0.33 | 0.37 | 62.7 |
| 5/2/2015 2:16:07 | 40.03 | 34.63 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/2/2015 2:16:08 | 40.35 | 34.95 | 1,137 | 0.33 | 0.38 | 62.2 |
| 5/2/2015 2:16:08 | 40.68 | 35.28 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:16:08 | 41.01 | 35.61 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 2:16:09 | 41.34 | 35.94 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 2:16:09 | 41.67 | 36.27 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:16:09 | 41.99 | 36.59 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:16:09 | 42.32 | 36.92 | 1,158 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:16:10 | 42.65 | 37.25 | 1,158 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:16:10 | 42.98 | 37.58 | 1,158 | 0.33 | 0.37 | 63.3 |
| 5/2/2015 2:16:10 | 43.31 | 37.91 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 2:16:11 | 43.64 | 38.24 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 2:16:11 | 43.96 | 38.56 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/2/2015 2:16:11 | 44.29 | 38.89 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/2/2015 2:16:12 | 44.62 | 39.22 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/2/2015 2:16:12 | 44.95 | 39.55 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:16:12 | 45.28 | 39.88 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:16:12 | 45.60 | 40.20 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:16:13 | 45.93 | 40.53 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/2/2015 2:16:13 | 46.26 | 40.86 | 1,171 | 0.32 | 0.39 | 64.0 |
| 5/2/2015 2:16:13 | 46.59 | 41.19 | 1,144 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 2:16:14 | 46.92 | 41.52 | 1,144 | 0.33 | 0.37 | 62.6 |
| 5/2/2015 2:16:14 | 47.24 | 41.84 | 1,144 | 0.33 | 0.38 | 62.6 |
| 5/2/2015 2:16:14 | 47.57 | 42.17 | 1,144 | 0.33 | 0.38 | 62.6 |
| 5/2/2015 2:16:14 | 47.90 | 42.50 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:16:15 | 48.23 | 42.83 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:16:15 | 48.56 | 43.16 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/2/2015 2:16:15 | 48.88 | 43.48 | 1,150 | 0.33 | 0.36 | 62.9 |
| 5/2/2015 2:16:16 | 49.21 | 43.81 | 1,150 | 0.33 | 0.36 | 62.9 |
| 5/2/2015 2:16:16 | 49.54 | 44.14 | 1,147 | 0.33 | 0.38 | 62.7 |
| 5/2/2015 2:16:16 | 49.87 | 44.47 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:16:17 | 50.20 | 44.80 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 2:16:17 | 50.53 | 45.13 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:16:18 | 50.85 | 45.45 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 2:16:18 | 51.18 | 45.78 | 1,132 | 0.33 | 0.37 | 61.9 |
| 5/2/2015 2:16:18 | 51.51 | 46.11 | 1,132 | 0.35 | 0.37 | 61.9 |
| 5/2/2015 2:16:19 | 51.84 | 46.44 | 1,132 | 0.35 | 0.37 | 61.9 |
| 5/2/2015 2:16:19 | 52.17 | 46.77 | 1,170 | 0.33 | 0.38 | 64.0 |
| 5/2/2015 2:16:19 | 52.49 | 47.09 | 1,170 | 0.33 | 0.38 | 64.0 |
| 5/2/2015 2:16:19 | 52.82 | 47.42 | 1,139 | 0.32 | 0.38 | 62.3 |
| 5/2/2015 2:16:20 | 53.15 | 47.75 | 1,121 | 0.32 | 0.39 | 61.3 |
| 5/2/2015 2:16:20 | 53.48 | 48.08 | 1,121 | 0.32 | 0.39 | 61.3 |
| 5/2/2015 2:16:20 | 53.81 | 48.41 | 1,121 | 0.32 | 0.39 | 61.3 |
| 5/2/2015 2:16:21 | 54.13 | 48.73 | 1,085 | 0.32 | 0.39 | 59.3 |
| 5/2/2015 2:16:21 | 54.46 | 49.06 | 1,085 | 0.32 | 0.39 | 59.3 |
| 5/2/2015 2:16:21 | 54.79 | 49.39 | 1,085 | 0.31 | 0.44 | 59.3 |
| 5/2/2015 2:16:27 | 55.12 | 49.72 | 82 | 4.32 | 0.47 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:16:33 | 55.45 | 50.05 | 87 | 3.55 | 0.47 | 4.8 |
| 5/2/2015 | 2:16:38 | 55.77 | 50.37 | 84 | 3.78 | 0.47 | 4.6 |
| 5/2/2015 | 2:16:42 | 56.10 | 50.70 | 87 | 3.77 | 0.47 | 4.8 |
| 5/2/2015 | 2:16:45 | 56.43 | 51.03 | 95 | 3.89 | 0.46 | 5.2 |
| 5/2/2015 | 2:16:51 | 56.76 | 51.36 | 62 | 3.56 | 0.46 | 3.4 |
| 5/2/2015 | 2:16:55 | 57.09 | 51.69 | 84 | 3.73 | 0.46 | 4.6 |
| 5/2/2015 | 2:16:59 | 57.41 | 52.01 | 85 | 3.67 | 0.47 | 4.6 |
| 5/2/2015 | 2:17:02 | 57.74 | 52.34 | 126 | 3.74 | 0.45 | 6.9 |
| 5/2/2015 | 2:17:04 | 58.07 | 52.67 | 174 | 3.76 | 0.46 | 9.5 |
| 5/2/2015 | 2:17:06 | 58.40 | 53.00 | 133 | 3.90 | 0.46 | 7.3 |
| 5/2/2015 | 2:17:09 | 58.73 | 53.33 | 142 | 3.26 | 0.47 | 7.8 |
| 5/2/2015 | 2:17:15 | 59.06 | 53.66 | 57 | 3.29 | 0.47 | 3.1 |
| 5/2/2015 | 2:17:24 | 59.38 | 53.98 | 43 | 3.56 | 0.47 | 2.4 |
| 5/2/2015 | 2:17:35 | 59.71 | 54.31 | 32 | 2.82 | 0.45 | 1.7 |
| 5/2/2015 | 2:17:46 | 60.04 | 54.64 | 28 | 2.88 | 0.46 | 1.5 |

## M77 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:14:30

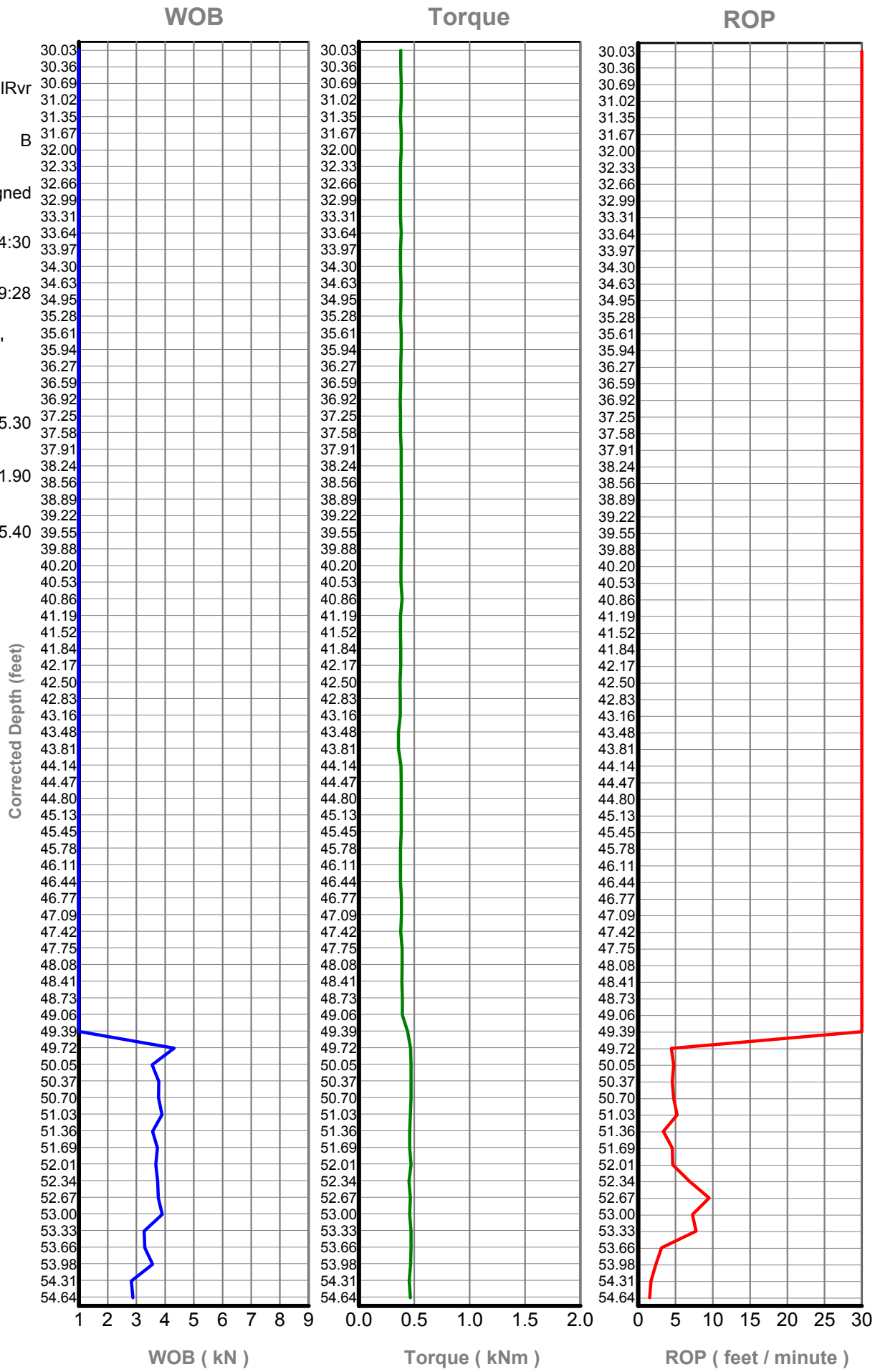
**End Date:**
5/2/2015 2:19:28

**Operator Note:**
'5.4 5.8b Auto Complete'

**Northing:**
358,835.30

**Easting:**
240,381.90

**Tide (feet):**
5.40



## Hole: M78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:14:31 | 35.43 | 30.03 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:32 | 35.76 | 30.36 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:32 | 36.09 | 30.69 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:32 | 36.42 | 31.02 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:14:33 | 36.75 | 31.35 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:14:33 | 37.07 | 31.67 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:33 | 37.40 | 32.00 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:14:34 | 37.73 | 32.33 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:14:34 | 38.06 | 32.66 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:14:34 | 38.39 | 32.99 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:14:35 | 38.71 | 33.31 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 2:14:35 | 39.04 | 33.64 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:35 | 39.37 | 33.97 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:14:36 | 39.70 | 34.30 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:14:36 | 40.03 | 34.63 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:14:36 | 40.35 | 34.95 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:14:37 | 40.68 | 35.28 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 2:14:37 | 41.01 | 35.61 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 2:14:37 | 41.34 | 35.94 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:38 | 41.67 | 36.27 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:38 | 41.99 | 36.59 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:14:38 | 42.32 | 36.92 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:14:39 | 42.65 | 37.25 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:14:39 | 42.98 | 37.58 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:39 | 43.31 | 37.91 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:14:40 | 43.64 | 38.24 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:14:40 | 43.96 | 38.56 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:14:41 | 44.29 | 38.89 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:41 | 44.62 | 39.22 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:42 | 44.95 | 39.55 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:42 | 45.28 | 39.88 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:42 | 45.60 | 40.20 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:14:43 | 45.93 | 40.53 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:14:43 | 46.26 | 40.86 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:14:43 | 46.59 | 41.19 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:44 | 46.92 | 41.52 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:44 | 47.24 | 41.84 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:44 | 47.57 | 42.17 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:45 | 47.90 | 42.50 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:45 | 48.23 | 42.83 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:45 | 48.56 | 43.16 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:14:46 | 48.88 | 43.48 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:14:46 | 49.21 | 43.81 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:14:46 | 49.54 | 44.14 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:47 | 49.87 | 44.47 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:47 | 50.20 | 44.80 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:14:47 | 50.53 | 45.13 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:14:48 | 50.85 | 45.45 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:14:48 | 51.18 | 45.78 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:14:48 | 51.51 | 46.11 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:49 | 51.84 | 46.44 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:14:49 | 52.17 | 46.77 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:14:49 | 52.49 | 47.09 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:14:50 | 52.82 | 47.42 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 2:14:50 | 53.15 | 47.75 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:14:50 | 53.48 | 48.08 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 2:14:51 | 53.81 | 48.41 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 2:14:52 | 54.13 | 48.73 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 2:14:51 | 54.46 | 49.06 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 2:14:52 | 54.79 | 49.39 | 962 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 2:14:53 | 55.12 | 49.72 | 945 | 1.14 | 0.29 | 51.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:14:53 | 55.45 | 50.05 | 945 | 1.14 | 0.29 | 51.7 |
| 5/2/2015 | 2:15:02 | 55.77 | 50.37 | 78 | 1.14 | 0.29 | 4.3 |
| 5/2/2015 | 2:15:06 | 56.10 | 50.70 | 105 | 1.14 | 0.29 | 5.7 |
| 5/2/2015 | 2:15:09 | 56.43 | 51.03 | 108 | 1.14 | 0.29 | 5.9 |
| 5/2/2015 | 2:15:12 | 56.76 | 51.36 | 119 | 1.14 | 0.29 | 6.5 |
| 5/2/2015 | 2:15:14 | 57.09 | 51.69 | 163 | 1.14 | 0.29 | 8.9 |
| 5/2/2015 | 2:15:16 | 57.41 | 52.01 | 192 | 1.14 | 0.29 | 10.5 |
| 5/2/2015 | 2:15:17 | 57.74 | 52.34 | 203 | 1.14 | 0.29 | 11.1 |
| 5/2/2015 | 2:15:19 | 58.07 | 52.67 | 224 | 1.14 | 0.29 | 12.2 |
| 5/2/2015 | 2:15:25 | 58.40 | 53.00 | 52 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 | 2:15:35 | 58.73 | 53.33 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 | 2:15:43 | 59.06 | 53.66 | 47 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 2:15:49 | 59.34 | 53.94 | 52 | 1.14 | 0.29 | 2.9 |

## M78 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:13:24

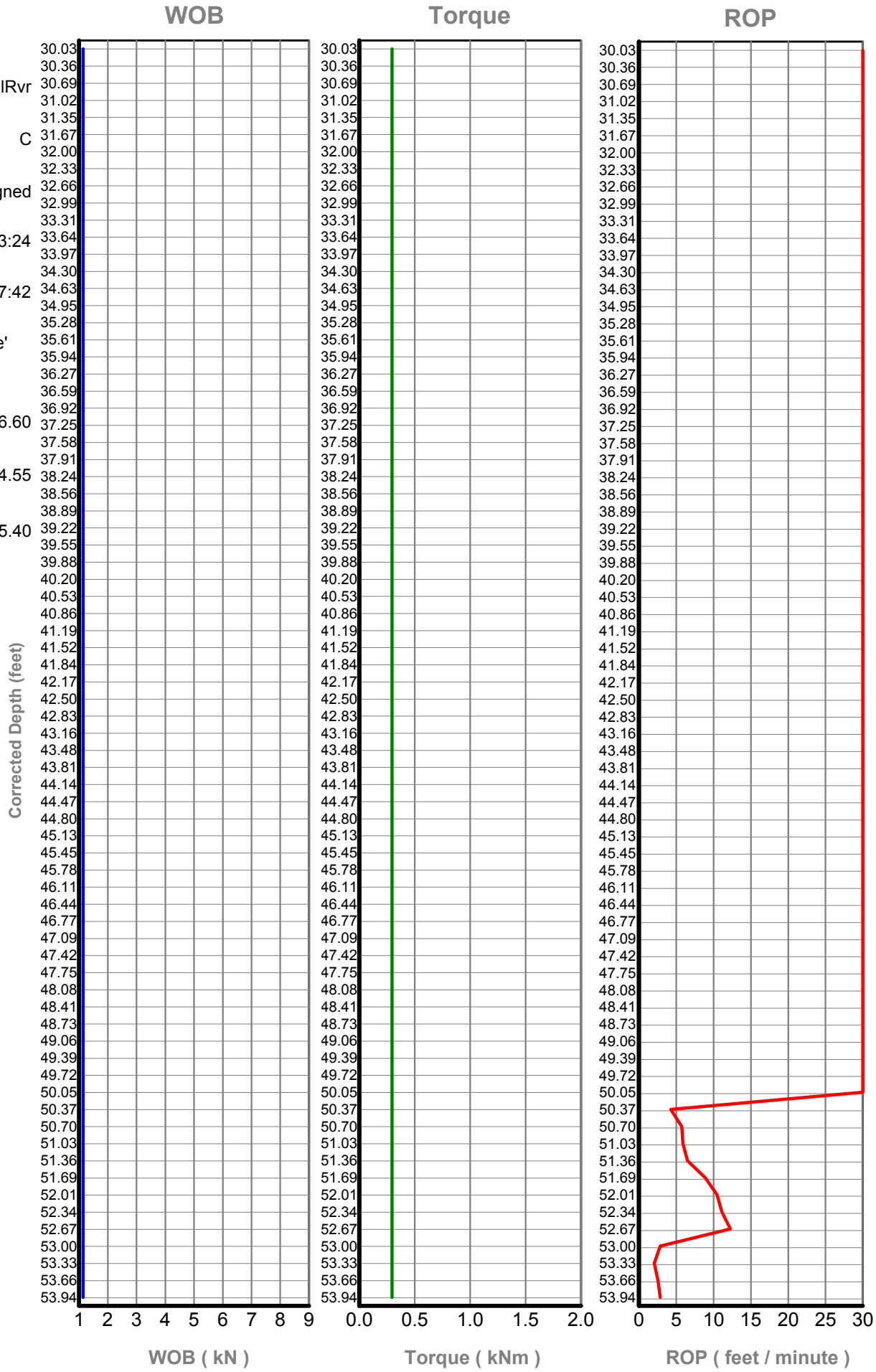
**End Date:**
5/2/2015 2:17:42

**Operator Note:**
'5.4 5,8 c Auto Complete'

**Northing:**
358,876.60

**Easting:**
240,444.55

**Tide (feet):**
5.40



## Hole: M79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:14:31 | 36.75 | 30.15 | 1,160 | 1.76 | 0.83 | 63.4 |
| 5/2/2015 1:14:31 | 37.07 | 30.47 | 1,178 | 1.74 | 0.77 | 64.4 |
| 5/2/2015 1:14:31 | 37.40 | 30.80 | 1,175 | 1.74 | 0.79 | 64.2 |
| 5/2/2015 1:14:32 | 37.73 | 31.13 | 1,175 | 1.74 | 0.79 | 64.2 |
| 5/2/2015 1:14:32 | 38.06 | 31.46 | 1,175 | 1.72 | 0.83 | 64.2 |
| 5/2/2015 1:14:32 | 38.39 | 31.79 | 1,175 | 1.72 | 0.83 | 64.2 |
| 5/2/2015 1:14:32 | 38.71 | 32.11 | 1,172 | 1.74 | 0.79 | 64.1 |
| 5/2/2015 1:14:33 | 39.04 | 32.44 | 1,188 | 1.49 | 0.80 | 65.0 |
| 5/2/2015 1:14:33 | 39.37 | 32.77 | 1,188 | 1.49 | 0.80 | 65.0 |
| 5/2/2015 1:14:33 | 39.70 | 33.10 | 1,142 | 1.43 | 0.79 | 62.5 |
| 5/2/2015 1:14:34 | 40.03 | 33.43 | 1,083 | 1.43 | 0.80 | 59.2 |
| 5/2/2015 1:14:34 | 40.35 | 33.75 | 1,009 | 1.21 | 0.81 | 55.2 |
| 5/2/2015 1:14:35 | 40.68 | 34.08 | 841 | 1.19 | 0.79 | 46.0 |
| 5/2/2015 1:14:35 | 41.01 | 34.41 | 732 | 1.20 | 0.84 | 40.0 |
| 5/2/2015 1:14:36 | 41.34 | 34.74 | 657 | 1.20 | 0.81 | 36.0 |
| 5/2/2015 1:14:37 | 41.67 | 35.07 | 609 | 1.20 | 0.79 | 33.3 |
| 5/2/2015 1:14:37 | 41.99 | 35.39 | 585 | 1.21 | 0.83 | 32.0 |
| 5/2/2015 1:14:38 | 42.32 | 35.72 | 653 | 1.21 | 0.80 | 35.7 |
| 5/2/2015 1:14:39 | 42.65 | 36.05 | 653 | 1.19 | 0.83 | 35.7 |
| 5/2/2015 1:14:39 | 42.98 | 36.38 | 653 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 1:14:40 | 43.31 | 36.71 | 653 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 1:14:40 | 43.64 | 37.04 | 656 | 1.22 | 0.26 | 35.9 |
| 5/2/2015 1:14:41 | 43.96 | 37.36 | 652 | 1.20 | 0.26 | 35.7 |
| 5/2/2015 1:14:41 | 44.29 | 37.69 | 659 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 1:14:42 | 44.62 | 38.02 | 656 | 1.20 | 0.26 | 35.9 |
| 5/2/2015 1:14:42 | 44.95 | 38.35 | 659 | 1.19 | 0.25 | 36.0 |
| 5/2/2015 1:14:43 | 45.28 | 38.68 | 656 | 1.20 | 0.26 | 35.9 |
| 5/2/2015 1:14:43 | 45.60 | 39.00 | 656 | 1.21 | 0.26 | 35.8 |
| 5/2/2015 1:14:44 | 45.93 | 39.33 | 660 | 1.21 | 0.26 | 36.1 |
| 5/2/2015 1:14:44 | 46.26 | 39.66 | 660 | 1.20 | 0.26 | 36.1 |
| 5/2/2015 1:14:45 | 46.59 | 39.99 | 656 | 1.20 | 0.26 | 35.8 |
| 5/2/2015 1:14:46 | 46.92 | 40.32 | 656 | 1.20 | 0.26 | 35.8 |
| 5/2/2015 1:14:46 | 47.24 | 40.64 | 661 | 1.21 | 0.26 | 36.1 |
| 5/2/2015 1:14:47 | 47.57 | 40.97 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 1:14:47 | 47.90 | 41.30 | 651 | 1.21 | 0.26 | 35.6 |
| 5/2/2015 1:14:48 | 48.23 | 41.63 | 658 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 1:14:48 | 48.56 | 41.96 | 658 | 1.21 | 0.26 | 36.0 |
| 5/2/2015 1:14:49 | 48.88 | 42.28 | 652 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 1:14:49 | 49.21 | 42.61 | 656 | 1.22 | 0.26 | 35.9 |
| 5/2/2015 1:14:50 | 49.54 | 42.94 | 659 | 1.10 | 0.20 | 36.0 |
| 5/2/2015 1:14:50 | 49.87 | 43.27 | 662 | 1.21 | 0.26 | 36.2 |
| 5/2/2015 1:14:51 | 50.20 | 43.60 | 656 | 1.20 | 0.26 | 35.9 |
| 5/2/2015 1:14:52 | 50.53 | 43.93 | 656 | 1.21 | 0.26 | 35.9 |
| 5/2/2015 1:14:52 | 50.85 | 44.25 | 653 | 1.21 | 0.25 | 35.7 |
| 5/2/2015 1:14:53 | 51.18 | 44.58 | 648 | 1.09 | 0.20 | 35.4 |
| 5/2/2015 1:14:53 | 51.51 | 44.91 | 656 | 1.09 | 0.19 | 35.9 |
| 5/2/2015 1:14:54 | 51.84 | 45.24 | 668 | 1.09 | 0.20 | 36.5 |
| 5/2/2015 1:14:54 | 52.17 | 45.57 | 673 | 1.09 | 0.20 | 36.8 |
| 5/2/2015 1:14:55 | 52.49 | 45.89 | 679 | 1.19 | 0.26 | 37.1 |
| 5/2/2015 1:14:55 | 52.82 | 46.22 | 669 | 1.20 | 0.26 | 36.6 |
| 5/2/2015 1:14:56 | 53.15 | 46.55 | 662 | 1.22 | 0.26 | 36.2 |
| 5/2/2015 1:14:56 | 53.48 | 46.88 | 639 | 1.07 | 0.19 | 34.9 |
| 5/2/2015 1:14:57 | 53.81 | 47.21 | 627 | 1.10 | 0.20 | 34.3 |
| 5/2/2015 1:14:58 | 54.13 | 47.53 | 619 | 1.09 | 0.20 | 33.8 |
| 5/2/2015 1:14:58 | 54.46 | 47.86 | 624 | 1.11 | 0.19 | 34.1 |
| 5/2/2015 1:14:59 | 54.79 | 48.19 | 624 | 1.11 | 0.20 | 34.1 |
| 5/2/2015 1:15:00 | 55.12 | 48.52 | 615 | 1.11 | 0.20 | 33.6 |
| 5/2/2015 1:15:00 | 55.45 | 48.85 | 610 | 1.11 | 0.20 | 33.4 |
| 5/2/2015 1:15:01 | 55.77 | 49.17 | 601 | 1.12 | 0.20 | 32.9 |
| 5/2/2015 1:15:01 | 56.10 | 49.50 | 595 | 1.10 | 0.20 | 32.6 |
| 5/2/2015 1:15:02 | 56.43 | 49.83 | 598 | 1.10 | 0.20 | 32.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:15:02 | 56.76 | 50.16 | 601 | 1.11 | 0.20 | 32.9 |
| 5/2/2015 | 1:15:03 | 57.09 | 50.49 | 601 | 1.10 | 0.20 | 32.9 |
| 5/2/2015 | 1:15:04 | 57.41 | 50.81 | 598 | 1.13 | 0.19 | 32.7 |
| 5/2/2015 | 1:15:22 | 57.74 | 51.14 | 3 | 1.79 | 0.82 | 0.2 |
| 5/2/2015 | 1:15:23 | 58.07 | 51.47 | 164 | 1.77 | 1.34 | 8.9 |
| 5/2/2015 | 1:15:24 | 58.40 | 51.80 | 261 | 1.55 | 1.51 | 14.3 |
| 5/2/2015 | 1:15:24 | 58.73 | 52.13 | 261 | 1.72 | 1.40 | 14.3 |
| 5/2/2015 | 1:15:25 | 59.06 | 52.46 | 461 | 1.69 | 1.01 | 25.2 |
| 5/2/2015 | 1:15:26 | 59.38 | 52.78 | 546 | 1.72 | 1.13 | 29.8 |
| 5/2/2015 | 1:15:26 | 59.71 | 53.11 | 557 | 1.63 | 1.00 | 30.5 |
| 5/2/2015 | 1:15:27 | 60.04 | 53.44 | 594 | 2.09 | 1.27 | 32.5 |
| 5/2/2015 | 1:15:34 | 60.37 | 53.77 | 84 | 1.06 | 1.11 | 4.6 |
| 5/2/2015 | 1:15:39 | 60.70 | 54.10 | 78 | 1.11 | 1.04 | 4.3 |
| 5/2/2015 | 1:15:43 | 61.02 | 54.42 | 77 | 1.13 | 1.02 | 4.2 |
| 5/2/2015 | 1:15:50 | 61.35 | 54.75 | 55 | 1.12 | 0.83 | 3.0 |
| 5/2/2015 | 1:15:56 | 61.58 | 54.98 | 34 | 1.22 | 0.83 | 1.9 |

## M79 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:06:53

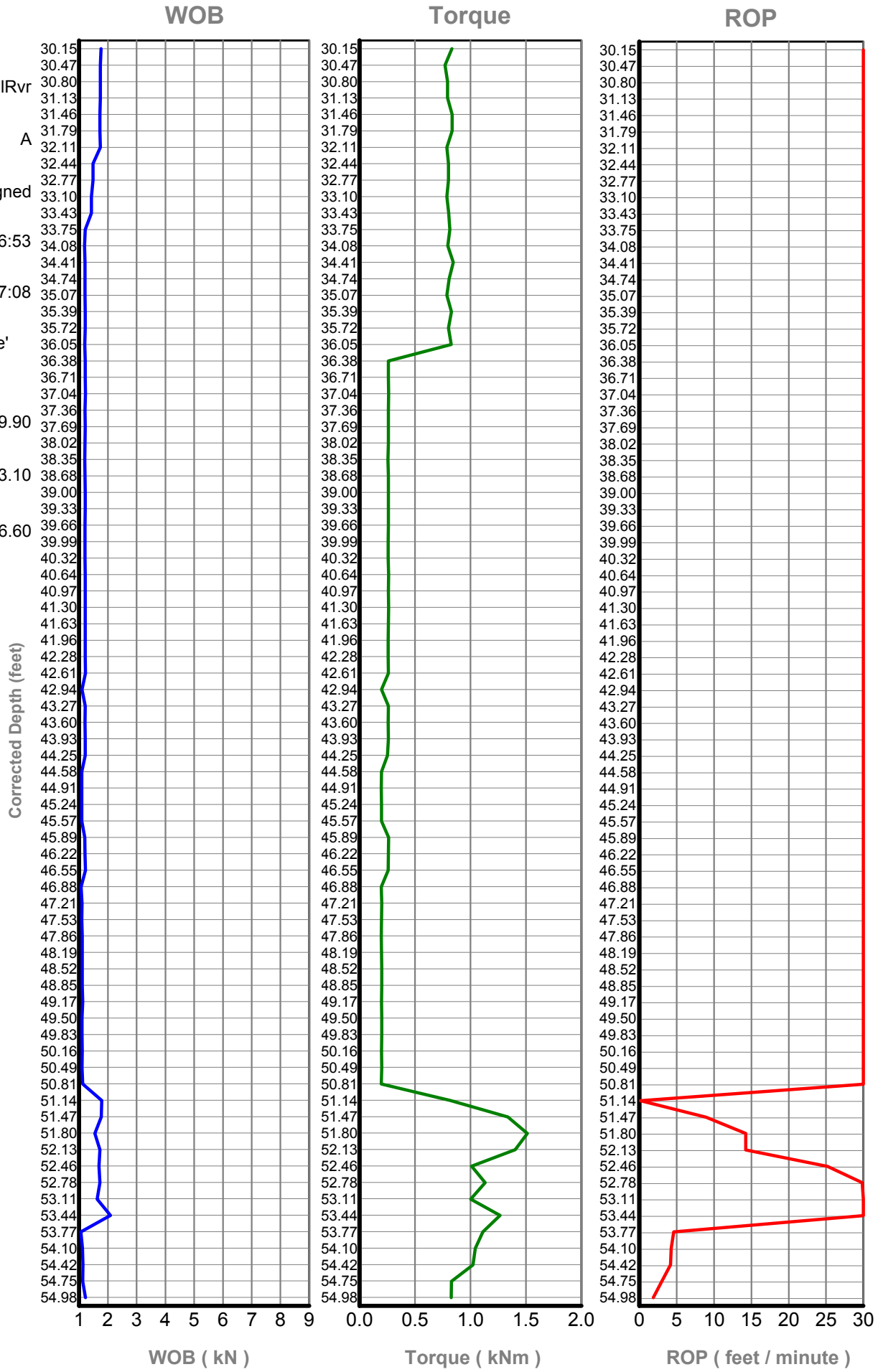
**End Date:**
5/2/2015 1:17:08

**Operator Note:**
'6.6 6.6 a Auto Complete'

**Northing:**
358,909.90

**Easting:**
240,513.10

**Tide (feet):**
6.60



## Hole: M8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:03:28 | 37.40 | 30.30 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:28 | 37.73 | 30.63 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:29 | 38.06 | 30.96 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:29 | 38.39 | 31.29 | 1,045 | 0.37 | 0.38 | 57.1 |
| 5/2/2015 0:03:29 | 38.71 | 31.61 | 1,038 | 0.37 | 0.39 | 56.8 |
| 5/2/2015 0:03:30 | 39.04 | 31.94 | 1,038 | 0.37 | 0.39 | 56.8 |
| 5/2/2015 0:03:30 | 39.37 | 32.27 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:30 | 39.70 | 32.60 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:31 | 40.03 | 32.93 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:31 | 40.35 | 33.25 | 1,029 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:31 | 40.68 | 33.58 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:32 | 41.01 | 33.91 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:32 | 41.34 | 34.24 | 1,032 | 0.38 | 0.39 | 56.4 |
| 5/2/2015 0:03:32 | 41.67 | 34.57 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 0:03:33 | 41.99 | 34.89 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 0:03:33 | 42.32 | 35.22 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 0:03:33 | 42.65 | 35.55 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 0:03:33 | 42.98 | 35.88 | 1,038 | 0.37 | 0.39 | 56.8 |
| 5/2/2015 0:03:34 | 43.31 | 36.21 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:35 | 43.64 | 36.54 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:35 | 43.96 | 36.86 | 1,038 | 0.37 | 0.39 | 56.7 |
| 5/2/2015 0:03:35 | 44.29 | 37.19 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:36 | 44.62 | 37.52 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/2/2015 0:03:36 | 44.95 | 37.85 | 1,041 | 0.37 | 0.39 | 56.9 |
| 5/2/2015 0:03:36 | 45.28 | 38.18 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:37 | 45.60 | 38.50 | 1,035 | 0.37 | 0.39 | 56.6 |
| 5/2/2015 0:03:37 | 45.93 | 38.83 | 1,032 | 0.37 | 0.39 | 56.4 |
| 5/2/2015 0:03:37 | 46.26 | 39.16 | 1,026 | 0.38 | 0.39 | 56.1 |
| 5/2/2015 0:03:38 | 46.59 | 39.49 | 1,026 | 0.38 | 0.39 | 56.1 |
| 5/2/2015 0:03:38 | 46.92 | 39.82 | 1,029 | 0.41 | 0.39 | 56.3 |
| 5/2/2015 0:03:38 | 47.24 | 40.14 | 1,020 | 0.37 | 0.39 | 55.8 |
| 5/2/2015 0:03:39 | 47.57 | 40.47 | 1,017 | 0.37 | 0.39 | 55.6 |
| 5/2/2015 0:03:39 | 47.90 | 40.80 | 1,017 | 0.37 | 0.39 | 55.6 |
| 5/2/2015 0:03:39 | 48.23 | 41.13 | 1,011 | 0.37 | 0.39 | 55.3 |
| 5/2/2015 0:03:40 | 48.56 | 41.46 | 1,012 | 0.36 | 0.35 | 55.3 |
| 5/2/2015 0:03:40 | 48.88 | 41.78 | 1,012 | 0.36 | 0.35 | 55.3 |
| 5/2/2015 0:03:40 | 49.21 | 42.11 | 1,000 | 0.37 | 0.40 | 54.7 |
| 5/2/2015 0:03:41 | 49.54 | 42.44 | 985 | 0.37 | 0.40 | 53.9 |
| 5/2/2015 0:03:41 | 49.87 | 42.77 | 985 | 0.37 | 0.40 | 53.9 |
| 5/2/2015 0:03:41 | 50.20 | 43.10 | 977 | 0.36 | 0.40 | 53.4 |
| 5/2/2015 0:03:42 | 50.53 | 43.43 | 965 | 0.37 | 0.39 | 52.8 |
| 5/2/2015 0:03:42 | 50.85 | 43.75 | 959 | 0.37 | 0.40 | 52.5 |
| 5/2/2015 0:03:43 | 51.18 | 44.08 | 959 | 0.37 | 0.40 | 52.5 |
| 5/2/2015 0:03:43 | 51.51 | 44.41 | 954 | 0.37 | 0.40 | 52.2 |
| 5/2/2015 0:03:43 | 51.84 | 44.74 | 948 | 0.37 | 0.40 | 51.8 |
| 5/2/2015 0:03:44 | 52.17 | 45.07 | 945 | 0.36 | 0.42 | 51.7 |
| 5/2/2015 0:03:45 | 52.49 | 45.39 | 945 | 0.36 | 0.42 | 51.7 |
| 5/2/2015 0:03:56 | 52.82 | 45.72 | 32 | 3.98 | 0.47 | 1.7 |
| 5/2/2015 0:03:59 | 53.15 | 46.05 | 127 | 3.40 | 0.48 | 6.9 |
| 5/2/2015 0:04:05 | 53.48 | 46.38 | 64 | 3.28 | 0.47 | 3.5 |
| 5/2/2015 0:04:14 | 53.81 | 46.71 | 29 | 3.20 | 0.47 | 1.6 |
| 5/2/2015 0:04:21 | 54.13 | 47.03 | 57 | 3.79 | 0.48 | 3.1 |
| 5/2/2015 0:04:27 | 54.46 | 47.36 | 46 | 3.57 | 0.47 | 2.5 |
| 5/2/2015 0:04:30 | 54.79 | 47.69 | 91 | 4.47 | 0.47 | 5.0 |
| 5/2/2015 0:04:35 | 55.12 | 48.02 | 78 | 3.88 | 0.47 | 4.3 |
| 5/2/2015 0:04:40 | 55.45 | 48.35 | 62 | 3.86 | 0.47 | 3.4 |
| 5/2/2015 0:04:46 | 55.77 | 48.67 | 55 | 3.33 | 0.47 | 3.0 |
| 5/2/2015 0:04:53 | 56.10 | 49.00 | 54 | 3.09 | 0.47 | 3.0 |
| 5/2/2015 0:04:57 | 56.41 | 49.31 | 89 | 3.62 | 0.47 | 4.9 |

## M8 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:01:52

**End Date:**
5/2/2015 0:06:28

**Operator Note:**
'7.1 7.1b Auto Complete'

**Northing:**
359,336.80

**Easting:**
240,342.57

**Tide (feet):**
7.10



## Hole: M80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:14:39 | 36.42 | 30.02 | 1,151 | 0.31 | 0.37 | 62.9 |
| 5/2/2015 1:14:39 | 36.75 | 30.35 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 1:14:39 | 37.07 | 30.67 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 1:14:39 | 37.40 | 31.00 | 1,150 | 0.37 | 0.38 | 62.9 |
| 5/2/2015 1:14:40 | 37.73 | 31.33 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 1:14:40 | 38.06 | 31.66 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/2/2015 1:14:40 | 38.39 | 31.99 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 1:14:41 | 38.71 | 32.31 | 1,146 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 1:14:41 | 39.04 | 32.64 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/2/2015 1:14:41 | 39.37 | 32.97 | 1,159 | 0.33 | 0.39 | 63.4 |
| 5/2/2015 1:14:42 | 39.70 | 33.30 | 1,159 | 0.33 | 0.39 | 63.4 |
| 5/2/2015 1:14:42 | 40.03 | 33.63 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 1:14:43 | 40.35 | 33.95 | 1,162 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 1:14:43 | 40.68 | 34.28 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:43 | 41.01 | 34.61 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:43 | 41.34 | 34.94 | 1,168 | 0.32 | 0.36 | 63.9 |
| 5/2/2015 1:14:44 | 41.67 | 35.27 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 1:14:44 | 41.99 | 35.59 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/2/2015 1:14:44 | 42.32 | 35.92 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:14:45 | 42.65 | 36.25 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:14:45 | 42.98 | 36.58 | 1,158 | 0.33 | 0.38 | 63.3 |
| 5/2/2015 1:14:45 | 43.31 | 36.91 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:46 | 43.64 | 37.24 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:46 | 43.96 | 37.56 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:14:46 | 44.29 | 37.89 | 1,159 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:14:46 | 44.62 | 38.22 | 1,166 | 0.33 | 0.37 | 63.8 |
| 5/2/2015 1:14:47 | 44.95 | 38.55 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:47 | 45.28 | 38.88 | 1,169 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:47 | 45.60 | 39.20 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:48 | 45.93 | 39.53 | 1,169 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:14:48 | 46.26 | 39.86 | 1,160 | 0.32 | 0.37 | 63.4 |
| 5/2/2015 1:14:48 | 46.59 | 40.19 | 1,173 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 1:14:49 | 46.92 | 40.52 | 1,173 | 0.32 | 0.37 | 64.2 |
| 5/2/2015 1:14:49 | 47.24 | 40.84 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 1:14:49 | 47.57 | 41.17 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 1:14:49 | 47.90 | 41.50 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:14:50 | 48.23 | 41.83 | 1,165 | 0.32 | 0.37 | 63.7 |
| 5/2/2015 1:14:50 | 48.56 | 42.16 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/2/2015 1:14:50 | 48.88 | 42.48 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:51 | 49.21 | 42.81 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:51 | 49.54 | 43.14 | 1,164 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 1:14:51 | 49.87 | 43.47 | 1,164 | 0.32 | 0.38 | 63.6 |
| 5/2/2015 1:14:51 | 50.20 | 43.80 | 1,174 | 0.32 | 0.38 | 64.2 |
| 5/2/2015 1:14:52 | 50.53 | 44.13 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:52 | 50.85 | 44.45 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:52 | 51.18 | 44.78 | 1,178 | 0.32 | 0.38 | 64.4 |
| 5/2/2015 1:14:53 | 51.51 | 45.11 | 1,178 | 0.32 | 0.38 | 64.4 |
| 5/2/2015 1:14:53 | 51.84 | 45.44 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:54 | 52.17 | 45.77 | 1,168 | 0.32 | 0.37 | 63.9 |
| 5/2/2015 1:14:54 | 52.49 | 46.09 | 1,162 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:14:54 | 52.82 | 46.42 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 1:14:55 | 53.15 | 46.75 | 1,145 | 0.32 | 0.37 | 62.6 |
| 5/2/2015 1:14:55 | 53.48 | 47.08 | 1,157 | 0.32 | 0.38 | 63.3 |
| 5/2/2015 1:14:55 | 53.81 | 47.41 | 1,135 | 0.32 | 0.38 | 62.1 |
| 5/2/2015 1:14:56 | 54.13 | 47.73 | 1,135 | 0.32 | 0.38 | 62.1 |
| 5/2/2015 1:14:56 | 54.46 | 48.06 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 1:14:56 | 54.79 | 48.39 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/2/2015 1:14:56 | 55.12 | 48.72 | 1,123 | 0.31 | 0.38 | 61.4 |
| 5/2/2015 1:14:57 | 55.45 | 49.05 | 1,119 | 0.32 | 0.39 | 61.2 |
| 5/2/2015 1:14:57 | 55.77 | 49.37 | 1,119 | 0.32 | 0.39 | 61.2 |
| 5/2/2015 1:14:57 | 56.10 | 49.70 | 1,076 | 0.31 | 0.39 | 58.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:14:58 | 56.43 | 50.03 | 1,073 | 0.31 | 0.39 | 58.7 |
| 5/2/2015 | 1:14:58 | 56.76 | 50.36 | 1,073 | 0.31 | 0.39 | 58.7 |
| 5/2/2015 | 1:14:58 | 57.09 | 50.69 | 1,025 | 0.31 | 0.40 | 56.1 |
| 5/2/2015 | 1:14:59 | 57.41 | 51.01 | 1,025 | 0.31 | 0.39 | 56.1 |
| 5/2/2015 | 1:14:59 | 57.74 | 51.34 | 1,005 | 0.32 | 0.39 | 55.0 |
| 5/2/2015 | 1:15:00 | 58.07 | 51.67 | 1,005 | 0.32 | 0.39 | 55.0 |
| 5/2/2015 | 1:15:00 | 58.40 | 52.00 | 984 | 0.31 | 0.40 | 53.8 |
| 5/2/2015 | 1:15:05 | 58.73 | 52.33 | 20 | 6.76 | 0.47 | 1.1 |
| 5/2/2015 | 1:15:07 | 59.06 | 52.66 | 139 | 3.94 | 0.46 | 7.6 |
| 5/2/2015 | 1:15:18 | 59.38 | 52.98 | 47 | 3.65 | 0.46 | 2.6 |
| 5/2/2015 | 1:15:22 | 59.71 | 53.31 | 104 | 3.29 | 0.46 | 5.7 |
| 5/2/2015 | 1:15:25 | 60.04 | 53.64 | 118 | 3.78 | 0.46 | 6.5 |
| 5/2/2015 | 1:15:28 | 60.37 | 53.97 | 107 | 3.54 | 0.46 | 5.8 |
| 5/2/2015 | 1:15:32 | 60.70 | 54.30 | 93 | 3.85 | 0.46 | 5.1 |
| 5/2/2015 | 1:15:36 | 61.02 | 54.62 | 78 | 3.70 | 0.47 | 4.3 |
| 5/2/2015 | 1:15:40 | 61.35 | 54.95 | 90 | 3.58 | 0.47 | 4.9 |
| 5/2/2015 | 1:15:43 | 61.60 | 55.20 | 93 | 3.85 | 0.46 | 5.1 |

## M80 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:13:08

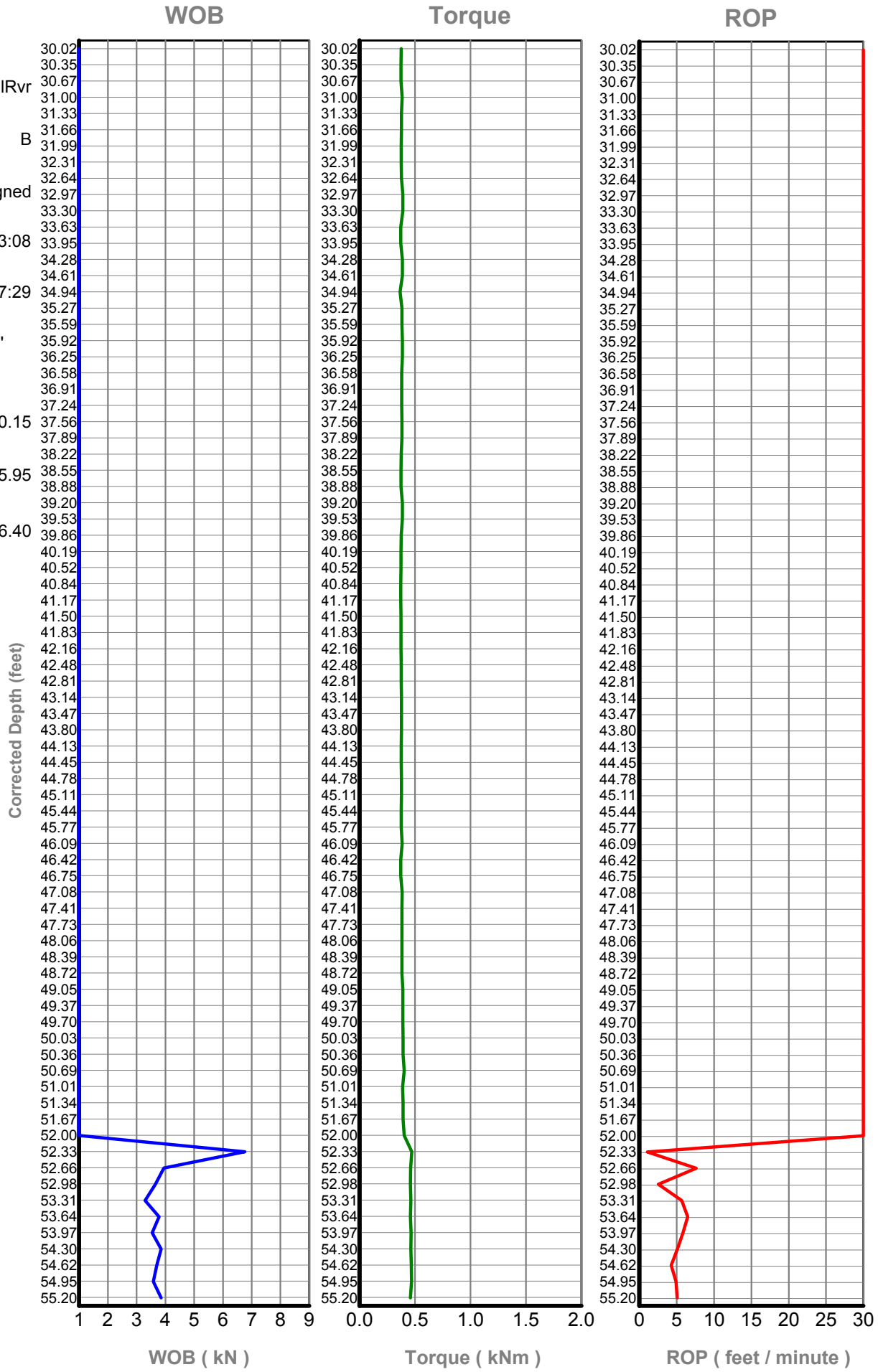
**End Date:**
5/2/2015 1:17:29

**Operator Note:**
'6.4 6.6b Auto Complete'

**Northing:**
358,950.15

**Easting:**
240,575.95

**Tide (feet):**
6.40



## Hole: M81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:13:22 | 36.42 | 30.02 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:13:22 | 36.75 | 30.35 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:13:22 | 37.07 | 30.67 | 1,034 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:23 | 37.40 | 31.00 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:13:23 | 37.73 | 31.33 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:13:23 | 38.06 | 31.66 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 1:13:24 | 38.39 | 31.99 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:24 | 38.71 | 32.31 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:24 | 39.04 | 32.64 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 1:13:25 | 39.37 | 32.97 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:25 | 39.70 | 33.30 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:25 | 40.03 | 33.63 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:13:26 | 40.35 | 33.95 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:26 | 40.68 | 34.28 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:26 | 41.01 | 34.61 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 1:13:27 | 41.34 | 34.94 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:13:28 | 41.67 | 35.27 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:13:28 | 41.99 | 35.59 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:28 | 42.32 | 35.92 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:13:29 | 42.65 | 36.25 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:13:29 | 42.98 | 36.58 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:13:29 | 43.31 | 36.91 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:30 | 43.64 | 37.24 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:30 | 43.96 | 37.56 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:13:30 | 44.29 | 37.89 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:13:31 | 44.62 | 38.22 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:13:31 | 44.95 | 38.55 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:13:31 | 45.28 | 38.88 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:32 | 45.60 | 39.20 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:32 | 45.93 | 39.53 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:32 | 46.26 | 39.86 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:33 | 46.59 | 40.19 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:13:33 | 46.92 | 40.52 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:33 | 47.24 | 40.84 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:34 | 47.57 | 41.17 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:13:34 | 47.90 | 41.50 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:34 | 48.23 | 41.83 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:13:35 | 48.56 | 42.16 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:13:35 | 48.88 | 42.48 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:35 | 49.21 | 42.81 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:36 | 49.54 | 43.14 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:36 | 49.87 | 43.47 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:36 | 50.20 | 43.80 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:37 | 50.53 | 44.13 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:37 | 50.85 | 44.45 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 1:13:37 | 51.18 | 44.78 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:38 | 51.51 | 45.11 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:38 | 51.84 | 45.44 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:13:38 | 52.17 | 45.77 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:13:39 | 52.49 | 46.09 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:13:40 | 52.82 | 46.42 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 1:13:40 | 53.15 | 46.75 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:13:40 | 53.48 | 47.08 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:13:41 | 53.81 | 47.41 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:13:41 | 54.13 | 47.73 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 1:13:41 | 54.46 | 48.06 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 1:13:42 | 54.79 | 48.39 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 1:13:42 | 55.12 | 48.72 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 1:13:51 | 55.45 | 49.05 | 64 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 1:13:53 | 55.77 | 49.37 | 156 | 1.14 | 0.29 | 8.5 |
| 5/2/2015 1:13:55 | 56.10 | 49.70 | 144 | 1.14 | 0.29 | 7.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:13:57 | 56.43 | 50.03 | 152 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 | 1:14:00 | 56.76 | 50.36 | 165 | 1.14 | 0.29 | 9.0 |
| 5/2/2015 | 1:14:01 | 57.09 | 50.69 | 187 | 1.14 | 0.29 | 10.2 |
| 5/2/2015 | 1:14:03 | 57.41 | 51.01 | 238 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 | 1:14:04 | 57.74 | 51.34 | 274 | 1.14 | 0.29 | 15.0 |
| 5/2/2015 | 1:14:04 | 58.07 | 51.67 | 326 | 1.14 | 0.29 | 17.8 |
| 5/2/2015 | 1:14:05 | 58.40 | 52.00 | 376 | 1.14 | 0.29 | 20.5 |
| 5/2/2015 | 1:14:06 | 58.73 | 52.33 | 486 | 1.14 | 0.29 | 26.6 |
| 5/2/2015 | 1:14:08 | 59.06 | 52.66 | 358 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 | 1:14:11 | 59.38 | 52.98 | 110 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 | 1:14:12 | 59.71 | 53.31 | 107 | 1.14 | 0.29 | 5.8 |
| 5/2/2015 | 1:14:13 | 60.04 | 53.64 | 223 | 1.14 | 0.29 | 12.2 |
| 5/2/2015 | 1:14:14 | 60.37 | 53.97 | 306 | 1.14 | 0.29 | 16.8 |
| 5/2/2015 | 1:14:15 | 60.70 | 54.30 | 477 | 1.14 | 0.29 | 26.1 |
| 5/2/2015 | 1:14:18 | 61.02 | 54.62 | 154 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 | 1:14:21 | 61.35 | 54.95 | 103 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 | 1:14:23 | 61.68 | 55.28 | 157 | 1.14 | 0.29 | 8.6 |
| 5/2/2015 | 1:14:24 | 61.87 | 55.47 | 183 | 1.14 | 0.29 | 10.0 |

## M81 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:12:18

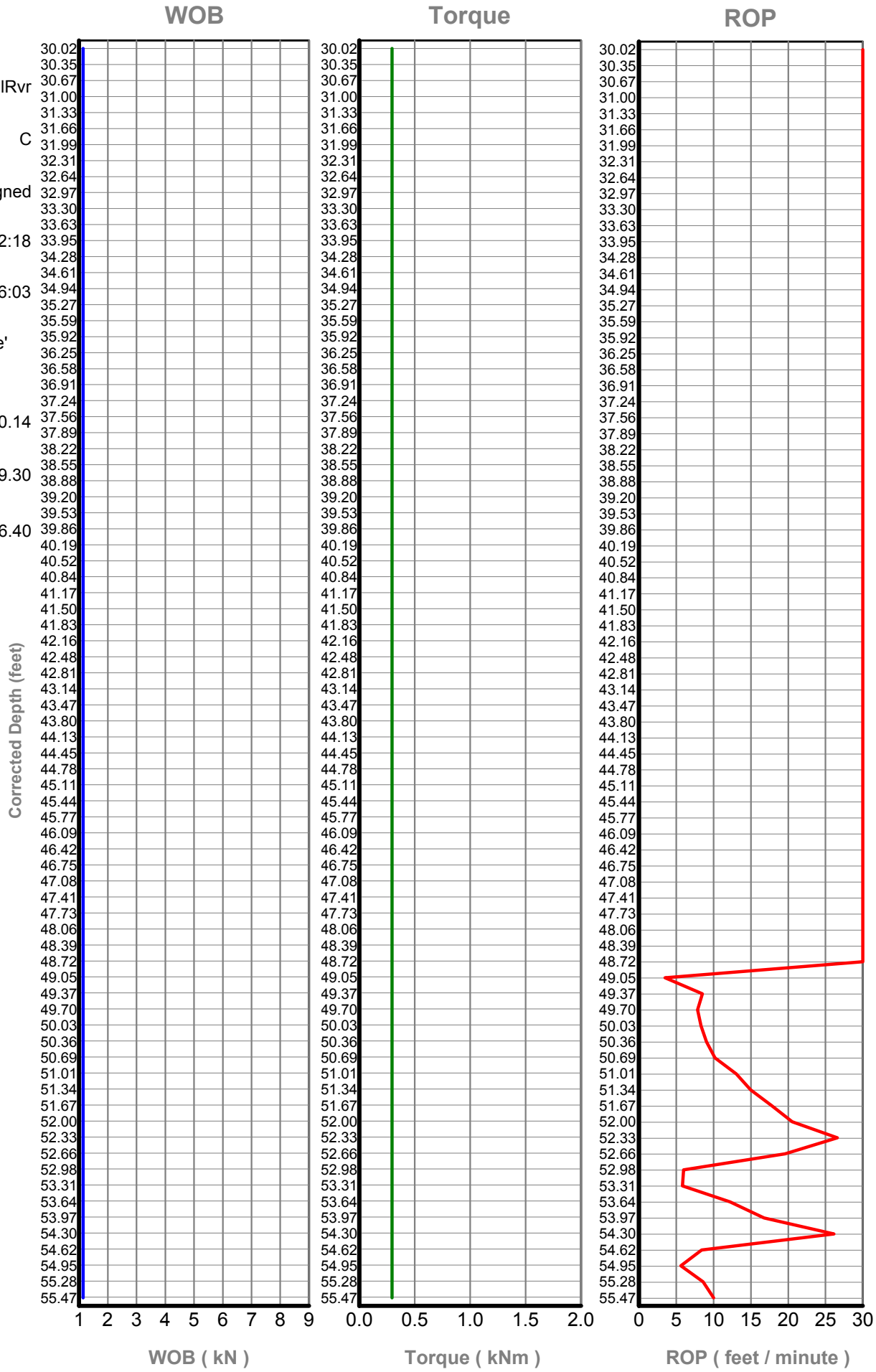
**End Date:**
5/2/2015 1:16:03

**Operator Note:**
'6.4 6.6 c Auto Complete'

**Northing:**
358,990.14

**Easting:**
240,639.30

**Tide (feet):**
6.40



## Hole: M82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:18:08 | 36.42 | 30.02 | 707 | 1.14 | 0.21 | 38.6 |
| 5/1/2015 22:18:09 | 36.75 | 30.35 | 714 | 1.13 | 0.21 | 39.1 |
| 5/1/2015 22:18:09 | 37.07 | 30.67 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:10 | 37.40 | 31.00 | 714 | 1.11 | 0.21 | 39.0 |
| 5/1/2015 22:18:11 | 37.73 | 31.33 | 719 | 1.13 | 0.21 | 39.3 |
| 5/1/2015 22:18:11 | 38.06 | 31.66 | 718 | 1.13 | 0.21 | 39.3 |
| 5/1/2015 22:18:12 | 38.39 | 31.99 | 725 | 1.12 | 0.21 | 39.6 |
| 5/1/2015 22:18:12 | 38.71 | 32.31 | 720 | 1.14 | 0.21 | 39.4 |
| 5/1/2015 22:18:13 | 39.04 | 32.64 | 725 | 1.13 | 0.21 | 39.6 |
| 5/1/2015 22:18:13 | 39.37 | 32.97 | 720 | 1.14 | 0.21 | 39.4 |
| 5/1/2015 22:18:14 | 39.70 | 33.30 | 720 | 1.15 | 0.21 | 39.4 |
| 5/1/2015 22:18:14 | 40.03 | 33.63 | 717 | 1.15 | 0.21 | 39.2 |
| 5/1/2015 22:18:15 | 40.35 | 33.95 | 714 | 1.15 | 0.21 | 39.0 |
| 5/1/2015 22:18:15 | 40.68 | 34.28 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:16 | 41.01 | 34.61 | 718 | 1.13 | 0.21 | 39.3 |
| 5/1/2015 22:18:16 | 41.34 | 34.94 | 711 | 1.14 | 0.21 | 38.9 |
| 5/1/2015 22:18:17 | 41.67 | 35.27 | 711 | 1.11 | 0.21 | 38.9 |
| 5/1/2015 22:18:17 | 41.99 | 35.59 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 22:18:18 | 42.32 | 35.92 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 22:18:18 | 42.65 | 36.25 | 714 | 1.13 | 0.21 | 39.1 |
| 5/1/2015 22:18:18 | 42.98 | 36.58 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 22:18:19 | 43.31 | 36.91 | 711 | 1.14 | 0.21 | 38.9 |
| 5/1/2015 22:18:19 | 43.64 | 37.24 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:20 | 43.96 | 37.56 | 721 | 1.12 | 0.21 | 39.4 |
| 5/1/2015 22:18:21 | 44.29 | 37.89 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:21 | 44.62 | 38.22 | 721 | 1.15 | 0.21 | 39.4 |
| 5/1/2015 22:18:22 | 44.95 | 38.55 | 713 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:22 | 45.28 | 38.88 | 717 | 1.13 | 0.21 | 39.2 |
| 5/1/2015 22:18:23 | 45.60 | 39.20 | 707 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 22:18:23 | 45.93 | 39.53 | 712 | 1.13 | 0.21 | 38.9 |
| 5/1/2015 22:18:24 | 46.26 | 39.86 | 704 | 1.13 | 0.21 | 38.5 |
| 5/1/2015 22:18:24 | 46.59 | 40.19 | 716 | 1.13 | 0.21 | 39.1 |
| 5/1/2015 22:18:25 | 46.92 | 40.52 | 708 | 1.13 | 0.21 | 38.7 |
| 5/1/2015 22:18:25 | 47.24 | 40.84 | 716 | 1.13 | 0.21 | 39.1 |
| 5/1/2015 22:18:26 | 47.57 | 41.17 | 711 | 1.13 | 0.21 | 38.9 |
| 5/1/2015 22:18:26 | 47.90 | 41.50 | 714 | 1.13 | 0.21 | 39.0 |
| 5/1/2015 22:18:27 | 48.23 | 41.83 | 711 | 1.14 | 0.21 | 38.9 |
| 5/1/2015 22:18:27 | 48.56 | 42.16 | 711 | 1.13 | 0.21 | 38.9 |
| 5/1/2015 22:18:28 | 48.88 | 42.48 | 699 | 1.13 | 0.20 | 38.2 |
| 5/1/2015 22:18:28 | 49.21 | 42.81 | 694 | 1.13 | 0.21 | 38.0 |
| 5/1/2015 22:18:29 | 49.54 | 43.14 | 694 | 1.11 | 0.21 | 38.0 |
| 5/1/2015 22:18:29 | 49.87 | 43.47 | 703 | 1.13 | 0.21 | 38.5 |
| 5/1/2015 22:18:30 | 50.20 | 43.80 | 699 | 1.14 | 0.21 | 38.2 |
| 5/1/2015 22:18:30 | 50.53 | 44.13 | 699 | 1.13 | 0.21 | 38.2 |
| 5/1/2015 22:18:31 | 50.85 | 44.45 | 711 | 1.13 | 0.21 | 38.9 |
| 5/1/2015 22:18:32 | 51.18 | 44.78 | 716 | 1.13 | 0.21 | 39.1 |
| 5/1/2015 22:18:32 | 51.51 | 45.11 | 701 | 1.14 | 0.21 | 38.3 |
| 5/1/2015 22:18:33 | 51.84 | 45.44 | 701 | 1.14 | 0.21 | 38.3 |
| 5/1/2015 22:18:33 | 52.17 | 45.77 | 705 | 1.13 | 0.21 | 38.6 |
| 5/1/2015 22:18:33 | 52.49 | 46.09 | 703 | 1.13 | 0.21 | 38.4 |
| 5/1/2015 22:18:34 | 52.82 | 46.42 | 700 | 1.13 | 0.21 | 38.3 |
| 5/1/2015 22:18:34 | 53.15 | 46.75 | 697 | 1.14 | 0.21 | 38.1 |
| 5/1/2015 22:18:35 | 53.48 | 47.08 | 694 | 1.14 | 0.21 | 37.9 |
| 5/1/2015 22:18:35 | 53.81 | 47.41 | 688 | 1.13 | 0.21 | 37.6 |
| 5/1/2015 22:18:36 | 54.13 | 47.73 | 664 | 1.15 | 0.21 | 36.3 |
| 5/1/2015 22:18:37 | 54.46 | 48.06 | 642 | 1.15 | 0.21 | 35.1 |
| 5/1/2015 22:19:02 | 54.79 | 48.39 | 0 | 1.20 | 1.15 | 0.0 |
| 5/1/2015 22:19:04 | 55.12 | 48.72 | 135 | 1.19 | 1.17 | 7.4 |
| 5/1/2015 22:19:09 | 55.45 | 49.05 | 41 | 1.15 | 1.48 | 2.2 |
| 5/1/2015 22:19:10 | 55.77 | 49.37 | 185 | 1.15 | 1.51 | 10.1 |
| 5/1/2015 22:19:14 | 56.10 | 49.70 | 57 | 1.39 | 1.91 | 3.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 22:21:34 | 56.43 | 50.03 | 86 | 1.11 | 1.20 | 4.7 |
| 5/1/2015 22:21:37 | 56.76 | 50.36 | 133 | 1.12 | 1.02 | 7.3 |
| 5/1/2015 22:21:43 | 57.09 | 50.69 | 58 | 1.06 | 1.06 | 3.2 |
| 5/1/2015 22:21:50 | 57.41 | 51.01 | 57 | 1.06 | 1.09 | 3.1 |
| 5/1/2015 22:21:56 | 57.74 | 51.34 | 52 | 1.11 | 1.09 | 2.8 |
| 5/1/2015 22:22:03 | 58.07 | 51.67 | 52 | 1.07 | 1.12 | 2.8 |
| 5/1/2015 22:22:09 | 58.40 | 52.00 | 64 | 1.22 | 1.20 | 3.5 |

## M82 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 22:16:32

**End Date:**
5/1/2015 22:23:34

**Operator Note:**
'6.4 6.2 a Auto Complete'

**Northing:**
359,034.58

**Easting:**
240,702.36

**Tide (feet):**
6.40



## Hole: M83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:17:08 | 36.42 | 30.02 | 963 | 0.39 | 0.40 | 52.6 |
| 5/1/2015 22:17:08 | 36.75 | 30.35 | 963 | 0.39 | 0.40 | 52.6 |
| 5/1/2015 22:17:08 | 37.07 | 30.67 | 960 | 0.39 | 0.40 | 52.5 |
| 5/1/2015 22:17:09 | 37.40 | 31.00 | 960 | 0.40 | 0.39 | 52.5 |
| 5/1/2015 22:17:09 | 37.73 | 31.33 | 963 | 0.40 | 0.39 | 52.6 |
| 5/1/2015 22:17:10 | 38.06 | 31.66 | 963 | 0.40 | 0.39 | 52.6 |
| 5/1/2015 22:17:10 | 38.39 | 31.99 | 960 | 0.39 | 0.39 | 52.5 |
| 5/1/2015 22:17:10 | 38.71 | 32.31 | 965 | 0.40 | 0.38 | 52.8 |
| 5/1/2015 22:17:11 | 39.04 | 32.64 | 965 | 0.40 | 0.38 | 52.8 |
| 5/1/2015 22:17:11 | 39.37 | 32.97 | 971 | 0.39 | 0.39 | 53.1 |
| 5/1/2015 22:17:12 | 39.70 | 33.30 | 974 | 0.37 | 0.39 | 53.3 |
| 5/1/2015 22:17:12 | 40.03 | 33.63 | 974 | 0.37 | 0.39 | 53.3 |
| 5/1/2015 22:17:12 | 40.35 | 33.95 | 977 | 0.40 | 0.39 | 53.4 |
| 5/1/2015 22:17:13 | 40.68 | 34.28 | 977 | 0.39 | 0.39 | 53.4 |
| 5/1/2015 22:17:13 | 41.01 | 34.61 | 977 | 0.40 | 0.39 | 53.4 |
| 5/1/2015 22:17:14 | 41.34 | 34.94 | 977 | 0.40 | 0.39 | 53.4 |
| 5/1/2015 22:17:14 | 41.67 | 35.27 | 974 | 0.40 | 0.40 | 53.3 |
| 5/1/2015 22:17:14 | 41.99 | 35.59 | 971 | 0.40 | 0.40 | 53.1 |
| 5/1/2015 22:17:15 | 42.32 | 35.92 | 971 | 0.40 | 0.40 | 53.1 |
| 5/1/2015 22:17:15 | 42.65 | 36.25 | 965 | 0.39 | 0.40 | 52.8 |
| 5/1/2015 22:17:15 | 42.98 | 36.58 | 968 | 0.39 | 0.40 | 53.0 |
| 5/1/2015 22:17:16 | 43.31 | 36.91 | 974 | 0.21 | 0.40 | 53.3 |
| 5/1/2015 22:17:16 | 43.64 | 37.24 | 974 | 0.21 | 0.40 | 53.3 |
| 5/1/2015 22:17:16 | 43.96 | 37.56 | 974 | 0.39 | 0.40 | 53.3 |
| 5/1/2015 22:17:17 | 44.29 | 37.89 | 971 | 0.41 | 0.40 | 53.1 |
| 5/1/2015 22:17:17 | 44.62 | 38.22 | 971 | 0.41 | 0.40 | 53.1 |
| 5/1/2015 22:17:17 | 44.95 | 38.55 | 971 | 0.40 | 0.40 | 53.1 |
| 5/1/2015 22:17:18 | 45.28 | 38.88 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:18 | 45.60 | 39.20 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:18 | 45.93 | 39.53 | 971 | 0.40 | 0.39 | 53.1 |
| 5/1/2015 22:17:19 | 46.26 | 39.86 | 971 | 0.40 | 0.40 | 53.1 |
| 5/1/2015 22:17:19 | 46.59 | 40.19 | 977 | 0.46 | 0.39 | 53.4 |
| 5/1/2015 22:17:20 | 46.92 | 40.52 | 977 | 0.46 | 0.39 | 53.4 |
| 5/1/2015 22:17:20 | 47.24 | 40.84 | 980 | 0.39 | 0.39 | 53.6 |
| 5/1/2015 22:17:20 | 47.57 | 41.17 | 977 | 0.39 | 0.39 | 53.4 |
| 5/1/2015 22:17:21 | 47.90 | 41.50 | 977 | 0.39 | 0.39 | 53.4 |
| 5/1/2015 22:17:21 | 48.23 | 41.83 | 977 | 0.40 | 0.39 | 53.4 |
| 5/1/2015 22:17:21 | 48.56 | 42.16 | 971 | 0.40 | 0.39 | 53.1 |
| 5/1/2015 22:17:22 | 48.88 | 42.48 | 971 | 0.40 | 0.39 | 53.1 |
| 5/1/2015 22:17:22 | 49.21 | 42.81 | 980 | 0.39 | 0.39 | 53.6 |
| 5/1/2015 22:17:23 | 49.54 | 43.14 | 977 | 0.39 | 0.40 | 53.4 |
| 5/1/2015 22:17:23 | 49.87 | 43.47 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:24 | 50.20 | 43.80 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:24 | 50.53 | 44.13 | 975 | 0.39 | 0.40 | 53.3 |
| 5/1/2015 22:17:24 | 50.85 | 44.45 | 983 | 0.39 | 0.39 | 53.8 |
| 5/1/2015 22:17:25 | 51.18 | 44.78 | 983 | 0.39 | 0.39 | 53.8 |
| 5/1/2015 22:17:25 | 51.51 | 45.11 | 977 | 0.39 | 0.39 | 53.4 |
| 5/1/2015 22:17:25 | 51.84 | 45.44 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:26 | 52.17 | 45.77 | 977 | 0.40 | 0.40 | 53.4 |
| 5/1/2015 22:17:26 | 52.49 | 46.09 | 968 | 0.40 | 0.40 | 53.0 |
| 5/1/2015 22:17:26 | 52.82 | 46.42 | 980 | 0.39 | 0.39 | 53.6 |
| 5/1/2015 22:17:27 | 53.15 | 46.75 | 968 | 0.39 | 0.40 | 53.0 |
| 5/1/2015 22:17:27 | 53.48 | 47.08 | 968 | 0.39 | 0.40 | 53.0 |
| 5/1/2015 22:17:27 | 53.81 | 47.41 | 963 | 0.39 | 0.40 | 52.6 |
| 5/1/2015 22:17:28 | 54.13 | 47.73 | 954 | 0.39 | 0.40 | 52.2 |
| 5/1/2015 22:17:28 | 54.46 | 48.06 | 948 | 0.39 | 0.40 | 51.9 |
| 5/1/2015 22:17:29 | 54.79 | 48.39 | 948 | 0.39 | 0.40 | 51.9 |
| 5/1/2015 22:17:29 | 55.12 | 48.72 | 937 | 0.39 | 0.40 | 51.2 |
| 5/1/2015 22:17:29 | 55.45 | 49.05 | 928 | 0.39 | 0.40 | 50.7 |
| 5/1/2015 22:17:30 | 55.77 | 49.37 | 911 | 0.39 | 0.40 | 49.8 |
| 5/1/2015 22:17:30 | 56.10 | 49.70 | 911 | 0.39 | 0.40 | 49.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 22:17:30 | 56.43 | 50.03 | 908 | 0.38 | 0.41 | 49.6 |
| 5/1/2015 22:17:31 | 56.76 | 50.36 | 882 | 0.37 | 0.44 | 48.2 |
| 5/1/2015 22:17:39 | 57.09 | 50.69 | 76 | 5.23 | 0.48 | 4.1 |
| 5/1/2015 22:17:45 | 57.41 | 51.01 | 47 | 4.34 | 0.44 | 2.6 |
| 5/1/2015 22:17:46 | 57.74 | 51.34 | 153 | 3.92 | 0.43 | 8.4 |
| 5/1/2015 22:17:47 | 58.07 | 51.67 | 347 | 4.08 | 0.46 | 19.0 |
| 5/1/2015 22:17:48 | 58.40 | 52.00 | 443 | 3.81 | 0.43 | 24.2 |
| 5/1/2015 22:17:48 | 58.73 | 52.33 | 443 | 3.98 | 0.44 | 24.2 |
| 5/1/2015 22:17:49 | 59.06 | 52.66 | 387 | 4.05 | 0.46 | 21.2 |
| 5/1/2015 22:17:51 | 59.38 | 52.98 | 211 | 4.28 | 0.47 | 11.6 |
| 5/1/2015 22:17:55 | 59.71 | 53.31 | 104 | 3.98 | 0.45 | 5.7 |
| 5/1/2015 22:17:56 | 60.04 | 53.64 | 191 | 3.79 | 0.46 | 10.4 |
| 5/1/2015 22:17:58 | 60.37 | 53.97 | 204 | 3.76 | 0.44 | 11.2 |
| 5/1/2015 22:17:59 | 60.70 | 54.30 | 214 | 3.57 | 0.43 | 11.7 |
| 5/1/2015 22:18:00 | 61.02 | 54.62 | 341 | 4.05 | 0.47 | 18.7 |
| 5/1/2015 22:18:02 | 61.20 | 54.80 | 175 | 4.04 | 0.47 | 9.5 |

## M83 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:15:20

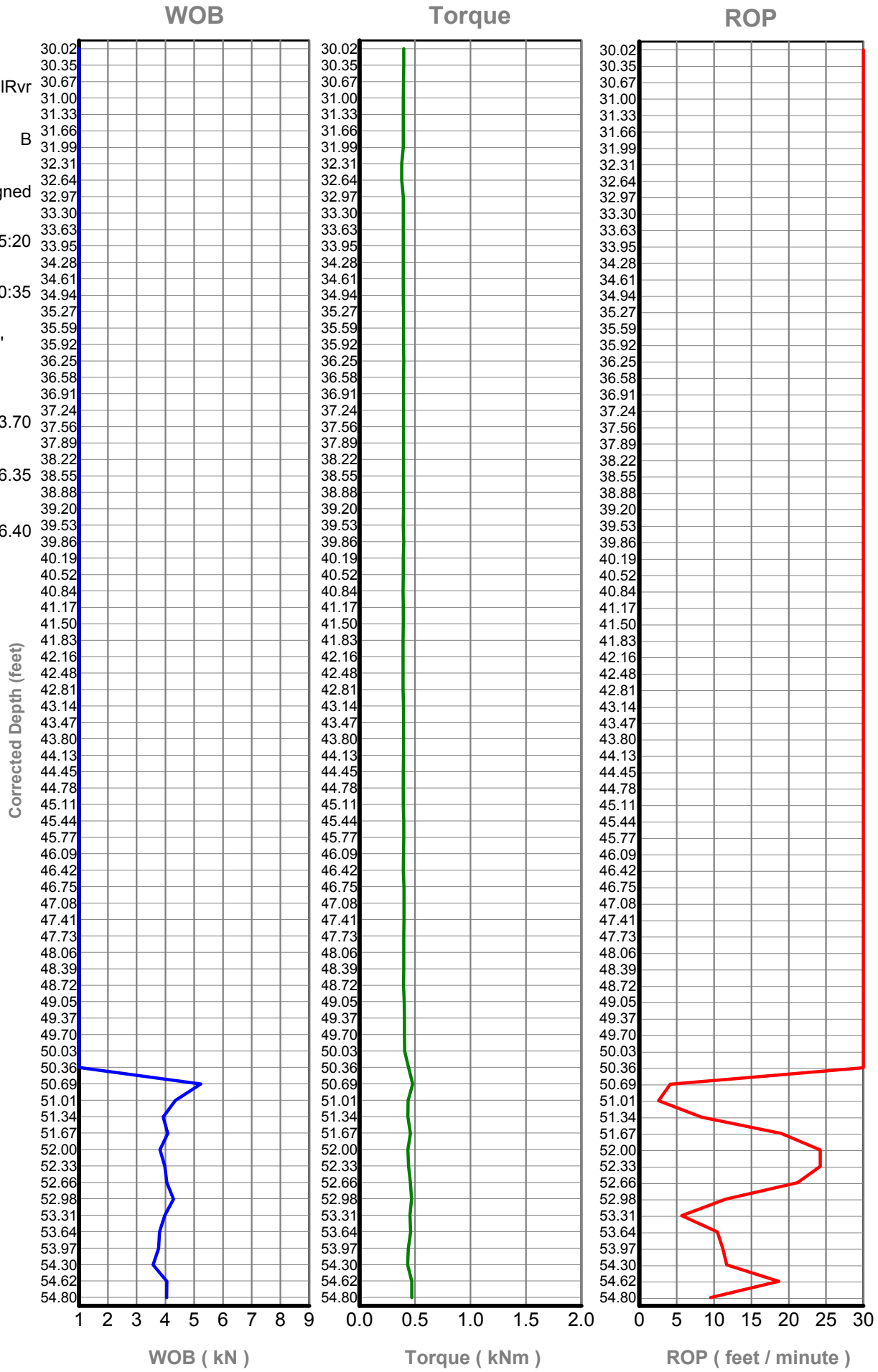
**End Date:**
5/1/2015 22:20:35

**Operator Note:**
'6.4 6.2b Auto Complete'

**Northing:**
359,073.70

**Easting:**
240,766.35

**Tide (feet):**
6.40



## Hole: M84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 22:16:05 | 36.42 | 30.12 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:06 | 36.75 | 30.45 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:06 | 37.07 | 30.77 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:16:06 | 37.40 | 31.10 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:07 | 37.73 | 31.43 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:07 | 38.06 | 31.76 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 22:16:07 | 38.39 | 32.09 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:08 | 38.71 | 32.41 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:08 | 39.04 | 32.74 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:08 | 39.37 | 33.07 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:16:09 | 39.70 | 33.40 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 22:16:09 | 40.03 | 33.73 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:09 | 40.35 | 34.05 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:10 | 40.68 | 34.38 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:10 | 41.01 | 34.71 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:16:10 | 41.34 | 35.04 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:16:11 | 41.67 | 35.37 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:16:11 | 41.99 | 35.69 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 22:16:11 | 42.32 | 36.02 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:16:12 | 42.65 | 36.35 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 22:16:12 | 42.98 | 36.68 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:12 | 43.31 | 37.01 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:13 | 43.64 | 37.34 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:13 | 43.96 | 37.66 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:13 | 44.29 | 37.99 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:14 | 44.62 | 38.32 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:14 | 44.95 | 38.65 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:16:14 | 45.28 | 38.98 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:16:15 | 45.60 | 39.30 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 22:16:15 | 45.93 | 39.63 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:16 | 46.26 | 39.96 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:16 | 46.59 | 40.29 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:16 | 46.92 | 40.62 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:17 | 47.24 | 40.94 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:17 | 47.57 | 41.27 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:18 | 47.90 | 41.60 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:18 | 48.23 | 41.93 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 22:16:18 | 48.56 | 42.26 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:19 | 48.88 | 42.58 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:19 | 49.21 | 42.91 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:19 | 49.54 | 43.24 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:20 | 49.87 | 43.57 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 22:16:20 | 50.20 | 43.90 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 22:16:20 | 50.53 | 44.23 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 22:16:21 | 50.85 | 44.55 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 22:16:21 | 51.18 | 44.88 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 22:16:21 | 51.51 | 45.21 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:16:22 | 51.84 | 45.54 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:16:22 | 52.17 | 45.87 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 22:16:22 | 52.49 | 46.19 | 1,005 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:16:23 | 52.82 | 46.52 | 1,005 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 22:16:23 | 53.15 | 46.85 | 996 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:16:23 | 53.48 | 47.18 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 22:16:24 | 53.81 | 47.51 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 22:16:24 | 54.13 | 47.83 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 22:16:24 | 54.46 | 48.16 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 22:16:25 | 54.79 | 48.49 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 22:16:25 | 55.12 | 48.82 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 22:16:25 | 55.45 | 49.15 | 968 | 1.14 | 0.29 | 53.0 |
| 5/1/2015 22:16:26 | 55.77 | 49.47 | 951 | 1.14 | 0.29 | 52.0 |
| 5/1/2015 22:16:26 | 56.10 | 49.80 | 928 | 1.14 | 0.29 | 50.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 22:16:39 | 56.43 | 50.13 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 22:16:41 | 56.76 | 50.46 | 156 | 1.14 | 0.29 | 8.6 |
| 5/1/2015 22:16:41 | 57.09 | 50.79 | 254 | 1.14 | 0.29 | 13.9 |
| 5/1/2015 22:16:42 | 57.41 | 51.11 | 319 | 1.14 | 0.29 | 17.5 |
| 5/1/2015 22:16:48 | 57.74 | 51.44 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 22:16:48 | 58.07 | 51.77 | 88 | 1.14 | 0.29 | 4.8 |
| 5/1/2015 22:16:50 | 58.40 | 52.10 | 270 | 1.14 | 0.29 | 14.8 |
| 5/1/2015 22:16:51 | 58.73 | 52.43 | 361 | 1.14 | 0.29 | 19.7 |
| 5/1/2015 22:16:54 | 59.06 | 52.76 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 22:16:55 | 59.38 | 53.08 | 214 | 1.14 | 0.29 | 11.7 |
| 5/1/2015 22:16:59 | 59.71 | 53.41 | 3 | 1.14 | 0.29 | 0.2 |
| 5/1/2015 22:17:00 | 60.04 | 53.74 | 151 | 1.14 | 0.29 | 8.2 |
| 5/1/2015 22:17:01 | 60.37 | 54.07 | 295 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 22:17:03 | 60.70 | 54.40 | 173 | 1.14 | 0.29 | 9.4 |
| 5/1/2015 22:17:05 | 61.02 | 54.72 | 148 | 1.14 | 0.29 | 8.1 |
| 5/1/2015 22:17:06 | 61.25 | 54.95 | 183 | 1.14 | 0.29 | 10.0 |

## M84 - Summary

**Pattern Number:**
AreaM_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 22:14:46

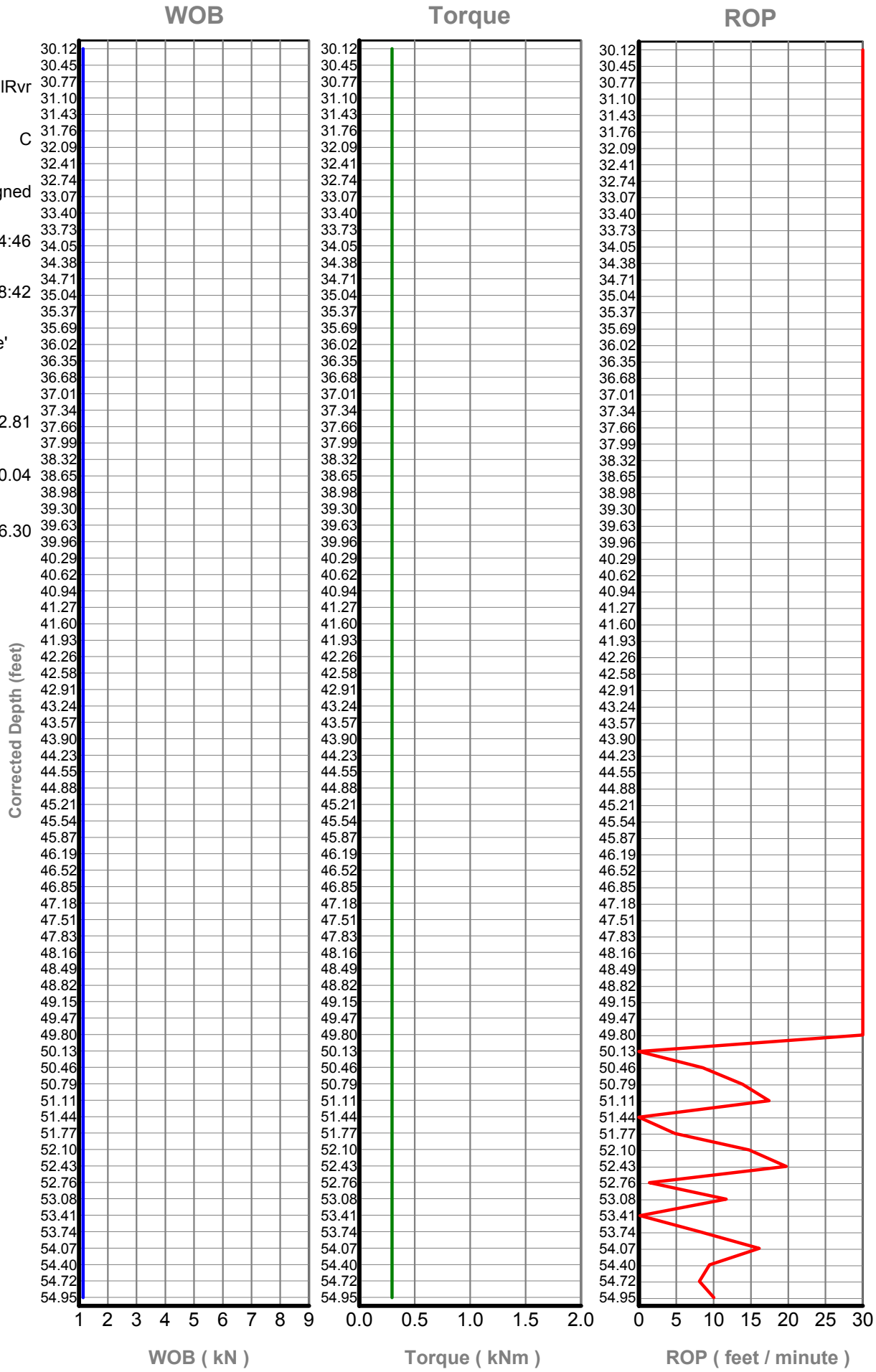
**End Date:**
5/1/2015 22:18:42

**Operator Note:**
'6.3 6.2 c Auto Complete'

**Northing:**
359,112.81

**Easting:**
240,830.04

**Tide (feet):**
6.30



## Hole: M85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:42:14 | 32.48 | 30.18 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:14 | 32.81 | 30.51 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 5:42:15 | 33.14 | 30.84 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:16 | 33.46 | 31.16 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 5:42:16 | 33.79 | 31.49 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:17 | 34.12 | 31.82 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:17 | 34.45 | 32.15 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:18 | 34.78 | 32.48 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:18 | 35.11 | 32.81 | 726 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:19 | 35.43 | 33.13 | 726 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:19 | 35.76 | 33.46 | 720 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 5:42:20 | 36.09 | 33.79 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 5:42:20 | 36.42 | 34.12 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 5:42:21 | 36.75 | 34.45 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 5:42:21 | 37.07 | 34.77 | 725 | 0.54 | 0.17 | 39.6 |
| 5/2/2015 5:42:21 | 37.40 | 35.10 | 729 | 0.54 | 0.17 | 39.9 |
| 5/2/2015 5:42:22 | 37.73 | 35.43 | 737 | 0.54 | 0.17 | 40.3 |
| 5/2/2015 5:42:22 | 38.06 | 35.76 | 738 | 0.54 | 0.17 | 40.4 |
| 5/2/2015 5:42:23 | 38.39 | 36.09 | 737 | 0.54 | 0.17 | 40.3 |
| 5/2/2015 5:42:23 | 38.71 | 36.41 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:24 | 39.04 | 36.74 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 5:42:24 | 39.37 | 37.07 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 5:42:25 | 39.70 | 37.40 | 729 | 0.54 | 0.17 | 39.9 |
| 5/2/2015 5:42:25 | 40.03 | 37.73 | 734 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 5:42:26 | 40.35 | 38.05 | 725 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:26 | 40.68 | 38.38 | 725 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:27 | 41.01 | 38.71 | 725 | 0.54 | 0.17 | 39.6 |
| 5/2/2015 5:42:28 | 41.34 | 39.04 | 737 | 0.54 | 0.17 | 40.3 |
| 5/2/2015 5:42:28 | 41.67 | 39.37 | 732 | 0.54 | 0.17 | 40.0 |
| 5/2/2015 5:42:29 | 41.99 | 39.69 | 713 | 0.54 | 0.17 | 39.0 |
| 5/2/2015 5:42:29 | 42.32 | 40.02 | 713 | 0.54 | 0.17 | 39.0 |
| 5/2/2015 5:42:29 | 42.65 | 40.35 | 713 | 0.54 | 0.17 | 39.0 |
| 5/2/2015 5:42:30 | 42.98 | 40.68 | 727 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:30 | 43.31 | 41.01 | 712 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 5:42:31 | 43.64 | 41.34 | 712 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 5:42:31 | 43.96 | 41.66 | 712 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 5:42:32 | 44.29 | 41.99 | 711 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 5:42:32 | 44.62 | 42.32 | 711 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 5:42:33 | 44.95 | 42.65 | 724 | 0.54 | 0.17 | 39.6 |
| 5/2/2015 5:42:33 | 45.28 | 42.98 | 719 | 0.54 | 0.17 | 39.3 |
| 5/2/2015 5:42:34 | 45.60 | 43.30 | 719 | 0.54 | 0.17 | 39.3 |
| 5/2/2015 5:42:34 | 45.93 | 43.63 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 5:42:35 | 46.26 | 43.96 | 729 | 0.54 | 0.17 | 39.9 |
| 5/2/2015 5:42:35 | 46.59 | 44.29 | 717 | 0.54 | 0.17 | 39.2 |
| 5/2/2015 5:42:36 | 46.92 | 44.62 | 717 | 0.54 | 0.17 | 39.2 |
| 5/2/2015 5:42:36 | 47.24 | 44.94 | 726 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 5:42:37 | 47.57 | 45.27 | 718 | 0.54 | 0.17 | 39.3 |
| 5/2/2015 5:42:37 | 47.90 | 45.60 | 714 | 0.54 | 0.17 | 39.0 |
| 5/2/2015 5:42:38 | 48.23 | 45.93 | 718 | 0.54 | 0.17 | 39.3 |
| 5/2/2015 5:42:38 | 48.56 | 46.26 | 723 | 0.54 | 0.17 | 39.5 |
| 5/2/2015 5:42:39 | 48.88 | 46.58 | 713 | 0.54 | 0.17 | 39.0 |
| 5/2/2015 5:42:40 | 49.21 | 46.91 | 709 | 0.54 | 0.17 | 38.8 |
| 5/2/2015 5:42:40 | 49.54 | 47.24 | 700 | 0.54 | 0.17 | 38.3 |
| 5/2/2015 5:42:41 | 49.87 | 47.57 | 701 | 0.54 | 0.17 | 38.3 |
| 5/2/2015 5:42:41 | 50.20 | 47.90 | 698 | 0.54 | 0.17 | 38.2 |
| 5/2/2015 5:42:42 | 50.53 | 48.23 | 695 | 0.54 | 0.17 | 38.0 |
| 5/2/2015 5:42:42 | 50.85 | 48.55 | 692 | 0.54 | 0.17 | 37.9 |
| 5/2/2015 5:42:43 | 51.18 | 48.88 | 688 | 0.54 | 0.17 | 37.6 |
| 5/2/2015 5:42:44 | 51.51 | 49.21 | 678 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 5:42:45 | 51.84 | 49.54 | 678 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 5:42:44 | 52.17 | 49.87 | 669 | 0.54 | 0.17 | 36.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:42:45 | 52.49 | 50.19 | 657 | 0.54 | 0.17 | 35.9 |
| 5/2/2015 | 5:42:45 | 52.82 | 50.52 | 655 | 0.54 | 0.17 | 35.8 |
| 5/2/2015 | 5:42:46 | 53.15 | 50.85 | 648 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 | 5:42:46 | 53.48 | 51.18 | 648 | 0.54 | 0.17 | 35.4 |
| 5/2/2015 | 5:42:47 | 53.81 | 51.51 | 649 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 | 5:42:47 | 54.13 | 51.83 | 651 | 0.54 | 0.17 | 35.6 |
| 5/2/2015 | 5:42:48 | 54.46 | 52.16 | 611 | 0.54 | 0.17 | 33.4 |
| 5/2/2015 | 5:43:00 | 54.79 | 52.49 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 5:43:04 | 55.12 | 52.82 | 127 | 0.54 | 0.17 | 6.9 |
| 5/2/2015 | 5:43:05 | 55.45 | 53.15 | 162 | 0.54 | 0.17 | 8.9 |
| 5/2/2015 | 5:43:08 | 55.77 | 53.47 | 152 | 0.54 | 0.17 | 8.3 |
| 5/2/2015 | 5:43:19 | 56.10 | 53.80 | 78 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 | 5:43:21 | 56.43 | 54.13 | 180 | 0.54 | 0.17 | 9.9 |
| 5/2/2015 | 5:43:23 | 56.76 | 54.46 | 198 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 | 5:43:25 | 57.09 | 54.79 | 134 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 | 5:43:27 | 57.35 | 55.05 | 198 | 0.54 | 0.17 | 10.8 |

## M85 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:26:58

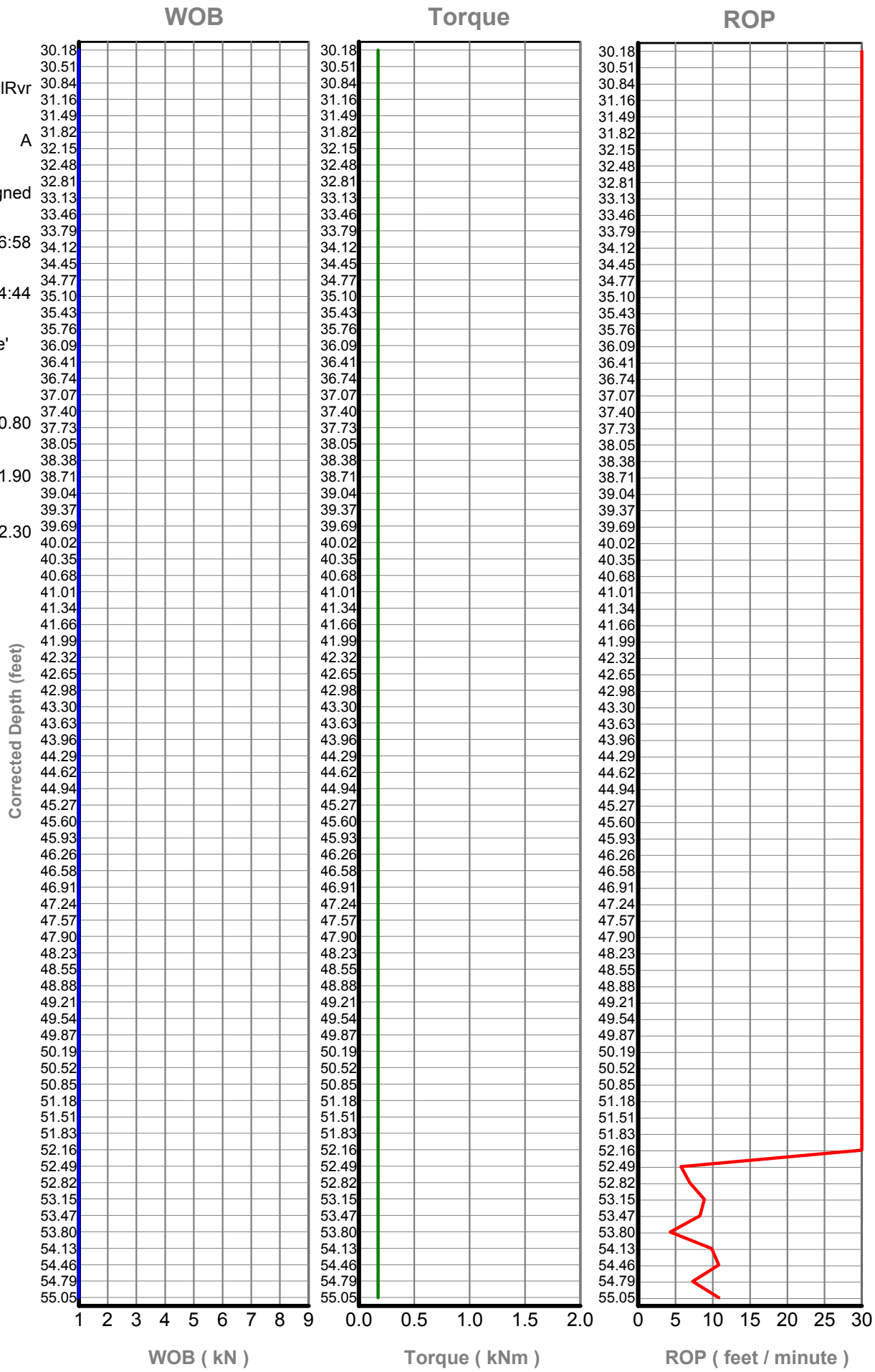
**End Date:**
5/2/2015 5:44:44

**Operator Note:**
'2.3 2.1 a Auto Complete'

**Northing:**
358,610.80

**Easting:**
240,171.90

**Tide (feet):**
2.30



## Hole: M86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:43:13 | 32.15 | 30.25 | 355 | 0.31 | 0.37 | 19.4 |
| 5/2/2015 5:43:14 | 32.48 | 30.58 | 575 | 0.31 | 0.38 | 31.4 |
| 5/2/2015 5:43:14 | 32.81 | 30.91 | 575 | 0.31 | 0.38 | 31.4 |
| 5/2/2015 5:43:14 | 33.14 | 31.24 | 802 | 0.31 | 0.38 | 43.9 |
| 5/2/2015 5:43:15 | 33.46 | 31.56 | 802 | 0.31 | 0.38 | 43.9 |
| 5/2/2015 5:43:15 | 33.79 | 31.89 | 1,022 | 0.32 | 0.37 | 55.9 |
| 5/2/2015 5:43:15 | 34.12 | 32.22 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 5:43:16 | 34.45 | 32.55 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 5:43:16 | 34.78 | 32.88 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/2/2015 5:43:16 | 35.11 | 33.21 | 1,122 | 0.31 | 0.38 | 61.3 |
| 5/2/2015 5:43:16 | 35.43 | 33.53 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/2/2015 5:43:17 | 35.76 | 33.86 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 5:43:17 | 36.09 | 34.19 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 5:43:17 | 36.42 | 34.52 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 5:43:18 | 36.75 | 34.85 | 1,109 | 0.32 | 0.39 | 60.6 |
| 5/2/2015 5:43:18 | 37.07 | 35.17 | 1,109 | 0.32 | 0.39 | 60.6 |
| 5/2/2015 5:43:18 | 37.40 | 35.50 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/2/2015 5:43:19 | 37.73 | 35.83 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/2/2015 5:43:19 | 38.06 | 36.16 | 1,116 | 0.32 | 0.38 | 61.0 |
| 5/2/2015 5:43:19 | 38.39 | 36.49 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/2/2015 5:43:20 | 38.71 | 36.81 | 1,122 | 0.32 | 0.38 | 61.3 |
| 5/2/2015 5:43:20 | 39.04 | 37.14 | 1,127 | 0.33 | 0.38 | 61.7 |
| 5/2/2015 5:43:21 | 39.37 | 37.47 | 1,127 | 0.33 | 0.38 | 61.7 |
| 5/2/2015 5:43:21 | 39.70 | 37.80 | 1,133 | 0.32 | 0.37 | 62.0 |
| 5/2/2015 5:43:21 | 40.03 | 38.13 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 5:43:22 | 40.35 | 38.45 | 1,139 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 5:43:22 | 40.68 | 38.78 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/2/2015 5:43:22 | 41.01 | 39.11 | 1,139 | 0.31 | 0.37 | 62.3 |
| 5/2/2015 5:43:22 | 41.34 | 39.44 | 1,132 | 0.31 | 0.38 | 61.9 |
| 5/2/2015 5:43:23 | 41.67 | 39.77 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 5:43:23 | 41.99 | 40.09 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 5:43:23 | 42.32 | 40.42 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/2/2015 5:43:24 | 42.65 | 40.75 | 1,145 | 0.31 | 0.38 | 62.6 |
| 5/2/2015 5:43:24 | 42.98 | 41.08 | 1,142 | 0.31 | 0.37 | 62.4 |
| 5/2/2015 5:43:24 | 43.31 | 41.41 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/2/2015 5:43:25 | 43.64 | 41.74 | 1,145 | 0.31 | 0.37 | 62.6 |
| 5/2/2015 5:43:25 | 43.96 | 42.06 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/2/2015 5:43:25 | 44.29 | 42.39 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/2/2015 5:43:25 | 44.62 | 42.72 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/2/2015 5:43:26 | 44.95 | 43.05 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 5:43:26 | 45.28 | 43.38 | 1,153 | 0.31 | 0.37 | 63.1 |
| 5/2/2015 5:43:26 | 45.60 | 43.70 | 1,146 | 0.31 | 0.39 | 62.7 |
| 5/2/2015 5:43:27 | 45.93 | 44.03 | 1,146 | 0.31 | 0.39 | 62.7 |
| 5/2/2015 5:43:27 | 46.26 | 44.36 | 1,162 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 5:43:27 | 46.59 | 44.69 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 5:43:28 | 46.92 | 45.02 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/2/2015 5:43:28 | 47.24 | 45.34 | 1,163 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 5:43:28 | 47.57 | 45.67 | 1,163 | 0.31 | 0.37 | 63.6 |
| 5/2/2015 5:43:28 | 47.90 | 46.00 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:43:29 | 48.23 | 46.33 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:43:29 | 48.56 | 46.66 | 1,165 | 0.31 | 0.38 | 63.7 |
| 5/2/2015 5:43:29 | 48.88 | 46.98 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:43:30 | 49.21 | 47.31 | 1,159 | 0.31 | 0.38 | 63.4 |
| 5/2/2015 5:43:30 | 49.54 | 47.64 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 5:43:31 | 49.87 | 47.97 | 1,153 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 5:43:31 | 50.20 | 48.30 | 1,141 | 0.31 | 0.38 | 62.4 |
| 5/2/2015 5:43:31 | 50.53 | 48.63 | 1,142 | 0.29 | 0.38 | 62.4 |
| 5/2/2015 5:43:32 | 50.85 | 48.95 | 1,142 | 0.29 | 0.38 | 62.4 |
| 5/2/2015 5:43:32 | 51.18 | 49.28 | 1,140 | 0.31 | 0.38 | 62.3 |
| 5/2/2015 5:43:32 | 51.51 | 49.61 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/2/2015 5:43:33 | 51.84 | 49.94 | 1,125 | 0.31 | 0.38 | 61.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:43:33 | 52.17 | 50.27 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 | 5:43:33 | 52.49 | 50.59 | 1,119 | 0.31 | 0.38 | 61.2 |
| 5/2/2015 | 5:43:33 | 52.82 | 50.92 | 1,116 | 0.31 | 0.38 | 61.1 |
| 5/2/2015 | 5:43:34 | 53.15 | 51.25 | 1,093 | 0.31 | 0.39 | 59.8 |
| 5/2/2015 | 5:43:34 | 53.48 | 51.58 | 1,093 | 0.31 | 0.39 | 59.8 |
| 5/2/2015 | 5:43:34 | 53.81 | 51.91 | 1,072 | 0.31 | 0.39 | 58.6 |
| 5/2/2015 | 5:43:35 | 54.13 | 52.23 | 1,058 | 0.30 | 0.39 | 57.9 |
| 5/2/2015 | 5:43:35 | 54.46 | 52.56 | 1,058 | 0.30 | 0.39 | 57.9 |
| 5/2/2015 | 5:43:43 | 54.79 | 52.89 | 0 | 2.48 | 0.42 | 0.0 |
| 5/2/2015 | 5:43:44 | 55.12 | 53.22 | 89 | 2.63 | 0.42 | 4.8 |
| 5/2/2015 | 5:43:45 | 55.45 | 53.55 | 283 | 3.97 | 0.46 | 15.5 |
| 5/2/2015 | 5:43:59 | 55.77 | 53.87 | 79 | 4.17 | 0.43 | 4.3 |
| 5/2/2015 | 5:43:59 | 56.10 | 54.20 | 156 | 3.43 | 0.43 | 8.6 |
| 5/2/2015 | 5:44:00 | 56.43 | 54.53 | 248 | 3.02 | 0.42 | 13.6 |
| 5/2/2015 | 5:44:01 | 56.76 | 54.86 | 471 | 3.58 | 0.44 | 25.8 |
| 5/2/2015 | 5:44:02 | 57.09 | 55.19 | 492 | 3.25 | 0.43 | 26.9 |
| 5/2/2015 | 5:44:03 | 57.41 | 55.51 | 506 | 3.62 | 0.46 | 27.7 |
| 5/2/2015 | 5:44:03 | 57.50 | 55.60 | 506 | 3.62 | 0.46 | 27.7 |

## M86 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:40:49

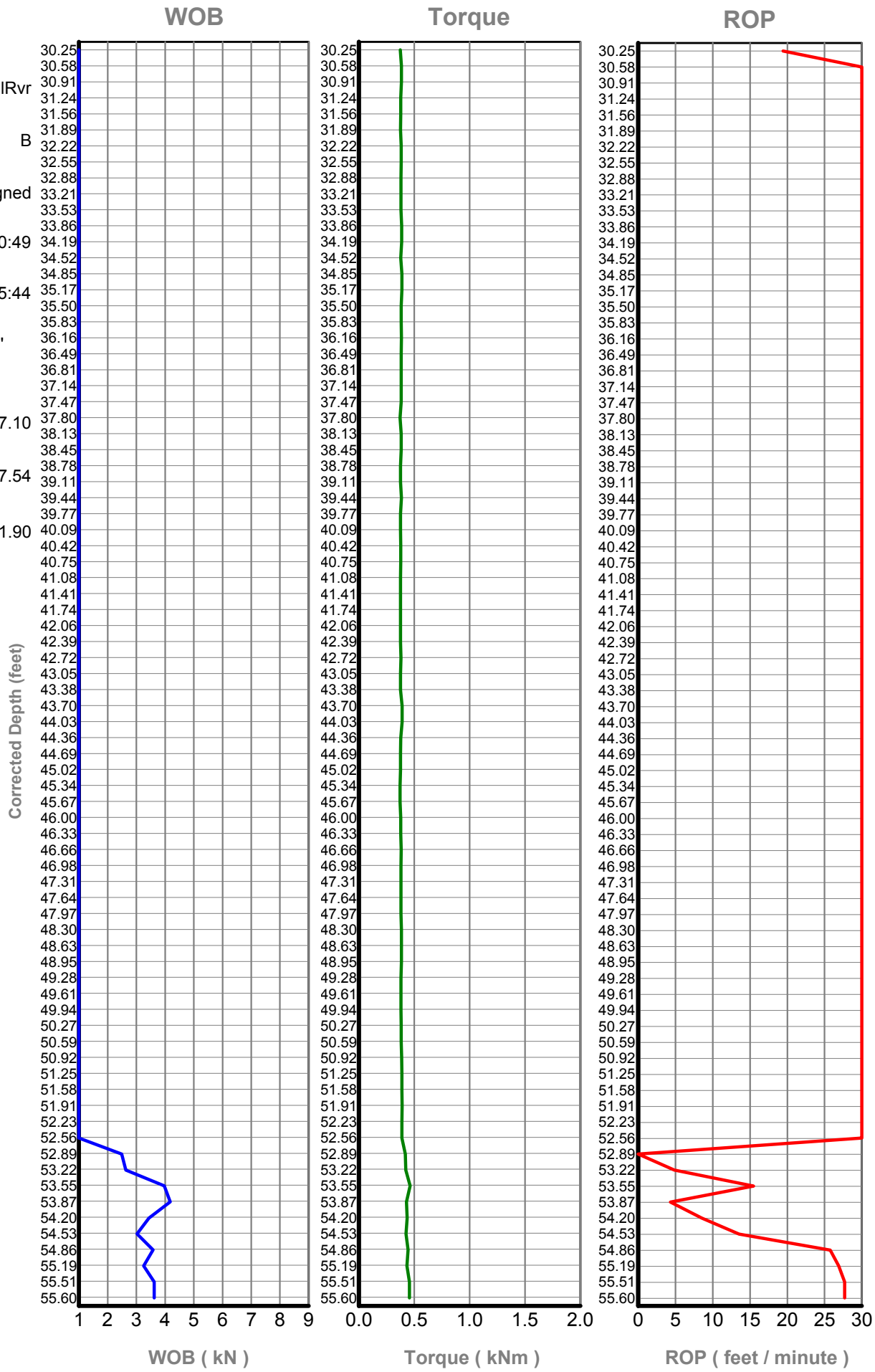
**End Date:**
5/2/2015 5:45:44

**Operator Note:**
'1.9 2.1b Auto Complete'

**Northing:**
358,647.10

**Easting:**
240,237.54

**Tide (feet):**
1.90



## Hole: M87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 5:44:46 | 32.15 | 30.25 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:44:46 | 32.48 | 30.58 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:46 | 32.81 | 30.91 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:44:47 | 33.14 | 31.24 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:44:47 | 33.46 | 31.56 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 5:44:47 | 33.79 | 31.89 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:48 | 34.12 | 32.22 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:48 | 34.45 | 32.55 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:48 | 34.78 | 32.88 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:49 | 35.11 | 33.21 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:49 | 35.43 | 33.53 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:44:49 | 35.76 | 33.86 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:44:50 | 36.09 | 34.19 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:44:50 | 36.42 | 34.52 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:44:50 | 36.75 | 34.85 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:51 | 37.07 | 35.17 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:51 | 37.40 | 35.50 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:44:51 | 37.73 | 35.83 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:44:52 | 38.06 | 36.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 5:44:52 | 38.39 | 36.49 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:52 | 38.71 | 36.81 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:53 | 39.04 | 37.14 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:53 | 39.37 | 37.47 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:44:53 | 39.70 | 37.80 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:44:54 | 40.03 | 38.13 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:44:54 | 40.35 | 38.45 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:44:54 | 40.68 | 38.78 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:44:55 | 41.01 | 39.11 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 5:44:55 | 41.34 | 39.44 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:44:56 | 41.67 | 39.77 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:44:56 | 41.99 | 40.09 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:44:56 | 42.32 | 40.42 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:57 | 42.65 | 40.75 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:57 | 42.98 | 41.08 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:57 | 43.31 | 41.41 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:58 | 43.64 | 41.74 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:44:58 | 43.96 | 42.06 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 5:44:58 | 44.29 | 42.39 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 5:44:59 | 44.62 | 42.72 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:59 | 44.95 | 43.05 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 5:44:59 | 45.28 | 43.38 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 5:45:00 | 45.60 | 43.70 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:00 | 45.93 | 44.03 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:00 | 46.26 | 44.36 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:45:01 | 46.59 | 44.69 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:01 | 46.92 | 45.02 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:01 | 47.24 | 45.34 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:02 | 47.57 | 45.67 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:02 | 47.90 | 46.00 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 5:45:02 | 48.23 | 46.33 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 5:45:03 | 48.56 | 46.66 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:45:03 | 48.88 | 46.98 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 5:45:03 | 49.21 | 47.31 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 5:45:04 | 49.54 | 47.64 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:45:04 | 49.87 | 47.97 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 5:45:04 | 50.20 | 48.30 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 5:45:05 | 50.53 | 48.63 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 5:45:05 | 50.85 | 48.95 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 5:45:06 | 51.18 | 49.28 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 5:45:06 | 51.51 | 49.61 | 962 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 5:45:06 | 51.84 | 49.94 | 956 | 1.14 | 0.29 | 52.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 5:45:07 | 52.17 | 50.27 | 937 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 | 5:45:08 | 52.49 | 50.59 | 937 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 | 5:45:08 | 52.82 | 50.92 | 919 | 1.14 | 0.29 | 50.2 |
| 5/2/2015 | 5:45:08 | 53.15 | 51.25 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 | 5:45:09 | 53.48 | 51.58 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 | 5:45:09 | 53.81 | 51.91 | 860 | 1.14 | 0.29 | 47.0 |
| 5/2/2015 | 5:45:34 | 54.13 | 52.23 | 58 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 | 5:45:36 | 54.46 | 52.56 | 181 | 1.14 | 0.29 | 9.9 |
| 5/2/2015 | 5:45:37 | 54.79 | 52.89 | 298 | 1.14 | 0.29 | 16.3 |
| 5/2/2015 | 5:45:37 | 55.12 | 53.22 | 337 | 1.14 | 0.29 | 18.4 |
| 5/2/2015 | 5:45:38 | 55.45 | 53.55 | 425 | 1.14 | 0.29 | 23.3 |
| 5/2/2015 | 5:45:39 | 55.77 | 53.87 | 496 | 1.14 | 0.29 | 27.1 |
| 5/2/2015 | 5:45:39 | 56.10 | 54.20 | 560 | 1.14 | 0.29 | 30.6 |
| 5/2/2015 | 5:45:40 | 56.43 | 54.53 | 585 | 1.14 | 0.29 | 32.0 |
| 5/2/2015 | 5:45:40 | 56.76 | 54.86 | 628 | 1.14 | 0.29 | 34.3 |
| 5/2/2015 | 5:45:47 | 57.09 | 55.19 | 15 | 1.14 | 0.29 | 0.8 |

## M87 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/2/2015 5:43:52

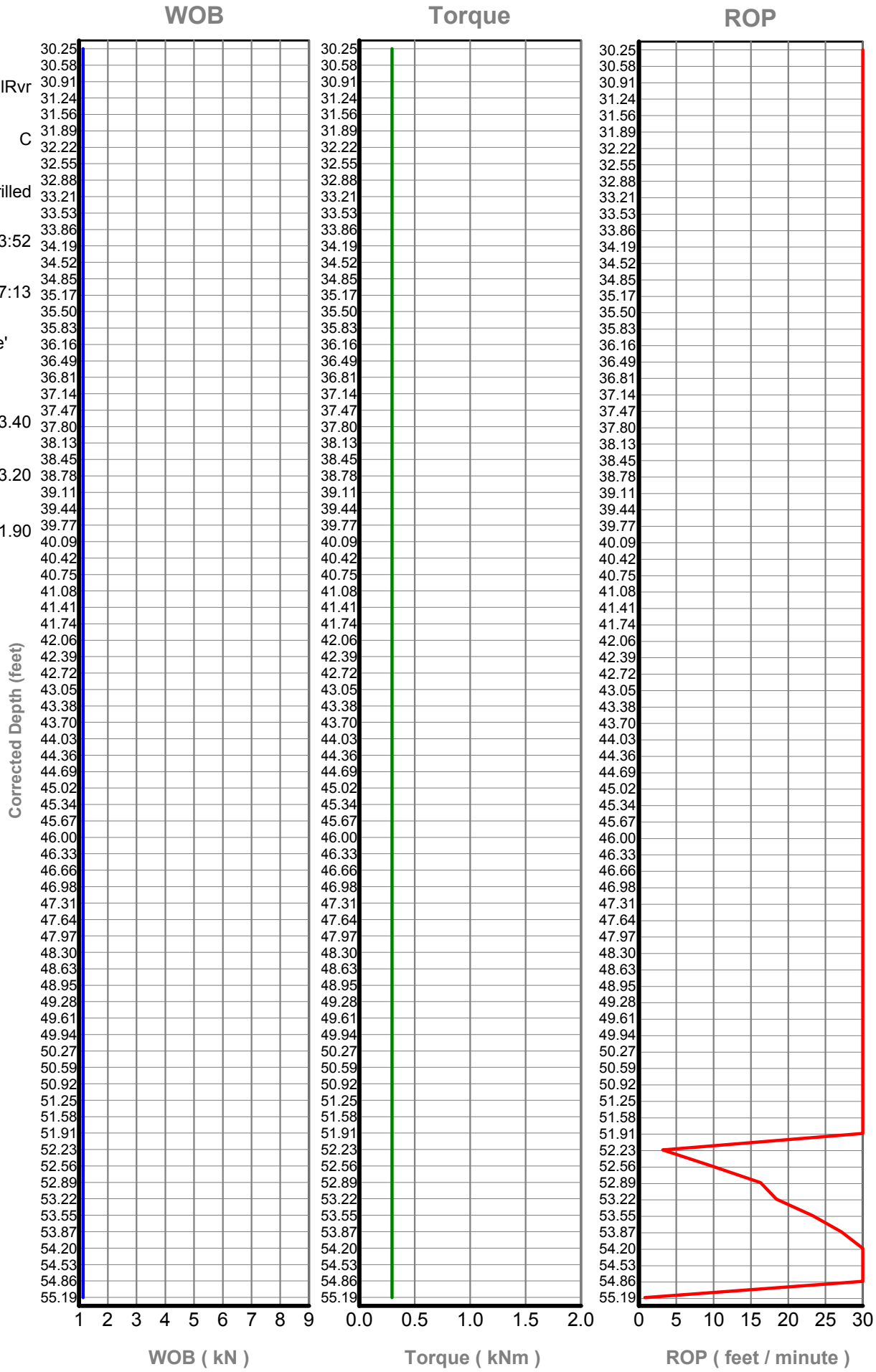
**End Date:**
5/2/2015 5:47:13

**Operator Note:**
'1.9 2.1 c Auto Complete'

**Northing:**
358,683.40

**Easting:**
240,303.20

**Tide (feet):**
1.90



## Hole: M88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:04:59 | 36.09 | 30.29 | 1,236 | 1.87 | 0.25 | 67.6 |
| 5/2/2015 2:04:59 | 36.42 | 30.62 | 1,208 | 1.87 | 0.25 | 66.1 |
| 5/2/2015 2:05:00 | 36.75 | 30.95 | 1,208 | 1.87 | 0.25 | 66.1 |
| 5/2/2015 2:05:00 | 37.07 | 31.27 | 1,219 | 1.85 | 0.25 | 66.7 |
| 5/2/2015 2:05:00 | 37.40 | 31.60 | 1,219 | 1.85 | 0.25 | 66.7 |
| 5/2/2015 2:05:00 | 37.73 | 31.93 | 1,251 | 1.85 | 0.25 | 68.4 |
| 5/2/2015 2:05:01 | 38.06 | 32.26 | 1,251 | 1.85 | 0.25 | 68.4 |
| 5/2/2015 2:05:01 | 38.39 | 32.59 | 1,243 | 1.88 | 0.25 | 68.0 |
| 5/2/2015 2:05:01 | 38.71 | 32.91 | 1,213 | 1.87 | 0.25 | 66.3 |
| 5/2/2015 2:05:02 | 39.04 | 33.24 | 1,213 | 1.87 | 0.25 | 66.3 |
| 5/2/2015 2:05:02 | 39.37 | 33.57 | 1,213 | 1.88 | 0.25 | 66.3 |
| 5/2/2015 2:05:02 | 39.70 | 33.90 | 1,213 | 1.88 | 0.25 | 66.3 |
| 5/2/2015 2:05:02 | 40.03 | 34.23 | 1,259 | 1.87 | 0.25 | 68.8 |
| 5/2/2015 2:05:03 | 40.35 | 34.55 | 1,259 | 1.87 | 0.25 | 68.8 |
| 5/2/2015 2:05:03 | 40.68 | 34.88 | 1,225 | 1.87 | 0.25 | 67.0 |
| 5/2/2015 2:05:03 | 41.01 | 35.21 | 1,225 | 1.87 | 0.25 | 67.0 |
| 5/2/2015 2:05:03 | 41.34 | 35.54 | 1,225 | 1.88 | 0.24 | 67.0 |
| 5/2/2015 2:05:04 | 41.67 | 35.87 | 1,206 | 1.86 | 0.25 | 66.0 |
| 5/2/2015 2:05:04 | 41.99 | 36.19 | 1,206 | 1.86 | 0.25 | 66.0 |
| 5/2/2015 2:05:04 | 42.32 | 36.52 | 1,206 | 1.53 | 0.24 | 66.0 |
| 5/2/2015 2:05:05 | 42.65 | 36.85 | 1,206 | 1.53 | 0.24 | 66.0 |
| 5/2/2015 2:05:05 | 42.98 | 37.18 | 1,204 | 1.43 | 0.26 | 65.8 |
| 5/2/2015 2:05:06 | 43.31 | 37.51 | 870 | 1.24 | 0.26 | 47.6 |
| 5/2/2015 2:05:07 | 43.64 | 37.84 | 870 | 1.23 | 0.26 | 47.6 |
| 5/2/2015 2:05:07 | 43.96 | 38.16 | 777 | 1.24 | 0.26 | 42.5 |
| 5/2/2015 2:05:08 | 44.29 | 38.49 | 666 | 1.22 | 0.26 | 36.4 |
| 5/2/2015 2:05:08 | 44.62 | 38.82 | 540 | 1.23 | 0.26 | 29.5 |
| 5/2/2015 2:05:09 | 44.95 | 39.15 | 528 | 1.24 | 0.27 | 28.9 |
| 5/2/2015 2:05:09 | 45.28 | 39.48 | 658 | 1.24 | 0.26 | 36.0 |
| 5/2/2015 2:05:10 | 45.60 | 39.80 | 657 | 1.24 | 0.26 | 35.9 |
| 5/2/2015 2:05:10 | 45.93 | 40.13 | 650 | 1.24 | 0.26 | 35.5 |
| 5/2/2015 2:05:11 | 46.26 | 40.46 | 662 | 1.24 | 0.26 | 36.2 |
| 5/2/2015 2:05:11 | 46.59 | 40.79 | 657 | 1.24 | 0.26 | 35.9 |
| 5/2/2015 2:05:12 | 46.92 | 41.12 | 639 | 1.22 | 0.26 | 34.9 |
| 5/2/2015 2:05:13 | 47.24 | 41.44 | 644 | 1.24 | 0.26 | 35.2 |
| 5/2/2015 2:05:13 | 47.57 | 41.77 | 637 | 1.23 | 0.26 | 34.8 |
| 5/2/2015 2:05:14 | 47.90 | 42.10 | 637 | 1.22 | 0.26 | 34.8 |
| 5/2/2015 2:05:14 | 48.23 | 42.43 | 636 | 1.24 | 0.26 | 34.8 |
| 5/2/2015 2:05:15 | 48.56 | 42.76 | 647 | 1.23 | 0.26 | 35.4 |
| 5/2/2015 2:05:16 | 48.88 | 43.08 | 657 | 1.23 | 0.26 | 35.9 |
| 5/2/2015 2:05:16 | 49.21 | 43.41 | 639 | 1.23 | 0.26 | 34.9 |
| 5/2/2015 2:05:17 | 49.54 | 43.74 | 639 | 1.22 | 0.27 | 34.9 |
| 5/2/2015 2:05:17 | 49.87 | 44.07 | 657 | 1.24 | 0.26 | 35.9 |
| 5/2/2015 2:05:18 | 50.20 | 44.40 | 655 | 1.07 | 0.21 | 35.8 |
| 5/2/2015 2:05:18 | 50.53 | 44.73 | 650 | 1.12 | 0.21 | 35.5 |
| 5/2/2015 2:05:19 | 50.85 | 45.05 | 653 | 1.12 | 0.21 | 35.7 |
| 5/2/2015 2:05:19 | 51.18 | 45.38 | 675 | 1.11 | 0.20 | 36.9 |
| 5/2/2015 2:05:20 | 51.51 | 45.71 | 676 | 1.11 | 0.20 | 37.0 |
| 5/2/2015 2:05:20 | 51.84 | 46.04 | 667 | 1.11 | 0.20 | 36.5 |
| 5/2/2015 2:05:21 | 52.17 | 46.37 | 667 | 1.14 | 0.20 | 36.5 |
| 5/2/2015 2:05:21 | 52.49 | 46.69 | 668 | 1.12 | 0.20 | 36.5 |
| 5/2/2015 2:05:22 | 52.82 | 47.02 | 648 | 1.12 | 0.20 | 35.5 |
| 5/2/2015 2:05:23 | 53.15 | 47.35 | 616 | 1.18 | 0.20 | 33.7 |
| 5/2/2015 2:05:37 | 53.48 | 47.68 | 33 | 1.10 | 1.09 | 1.8 |
| 5/2/2015 2:05:44 | 53.81 | 48.01 | 40 | 1.09 | 0.98 | 2.2 |
| 5/2/2015 2:05:54 | 54.13 | 48.33 | 41 | 1.08 | 0.99 | 2.2 |
| 5/2/2015 2:06:01 | 54.40 | 48.60 | 44 | 1.21 | 0.97 | 2.4 |

## M88 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:55:45

**End Date:**
5/2/2015 2:07:20

**Operator Note:**
'5.8 5.9 a Auto Complete'

**Northing:**
358,734.10

**Easting:**
240,360.10

**Tide (feet):**
5.80



## Hole: M89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:04:52 | 35.76 | 30.16 | 1,102 | 0.33 | 0.38 | 60.3 |
| 5/2/2015 2:04:52 | 36.09 | 30.49 | 1,102 | 0.33 | 0.37 | 60.3 |
| 5/2/2015 2:04:53 | 36.42 | 30.82 | 1,102 | 0.33 | 0.37 | 60.3 |
| 5/2/2015 2:04:53 | 36.75 | 31.15 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 2:04:53 | 37.07 | 31.47 | 1,112 | 0.33 | 0.38 | 60.8 |
| 5/2/2015 2:04:53 | 37.40 | 31.80 | 1,096 | 0.34 | 0.37 | 59.9 |
| 5/2/2015 2:04:54 | 37.73 | 32.13 | 1,071 | 0.34 | 0.38 | 58.6 |
| 5/2/2015 2:04:54 | 38.06 | 32.46 | 1,071 | 0.34 | 0.38 | 58.6 |
| 5/2/2015 2:04:54 | 38.39 | 32.79 | 1,071 | 0.33 | 0.38 | 58.6 |
| 5/2/2015 2:04:55 | 38.71 | 33.11 | 1,071 | 0.33 | 0.38 | 58.6 |
| 5/2/2015 2:04:55 | 39.04 | 33.44 | 1,092 | 0.33 | 0.38 | 59.7 |
| 5/2/2015 2:04:55 | 39.37 | 33.77 | 1,096 | 0.33 | 0.38 | 60.0 |
| 5/2/2015 2:04:56 | 39.70 | 34.10 | 1,096 | 0.33 | 0.38 | 60.0 |
| 5/2/2015 2:04:56 | 40.03 | 34.43 | 1,092 | 0.34 | 0.38 | 59.7 |
| 5/2/2015 2:04:56 | 40.35 | 34.75 | 1,089 | 0.34 | 0.38 | 59.5 |
| 5/2/2015 2:04:57 | 40.68 | 35.08 | 1,089 | 0.34 | 0.38 | 59.5 |
| 5/2/2015 2:04:57 | 41.01 | 35.41 | 1,089 | 0.31 | 0.38 | 59.5 |
| 5/2/2015 2:04:57 | 41.34 | 35.74 | 1,089 | 0.31 | 0.38 | 59.5 |
| 5/2/2015 2:04:57 | 41.67 | 36.07 | 1,118 | 0.35 | 0.38 | 61.1 |
| 5/2/2015 2:04:58 | 41.99 | 36.39 | 1,100 | 0.34 | 0.38 | 60.1 |
| 5/2/2015 2:04:58 | 42.32 | 36.72 | 1,100 | 0.34 | 0.38 | 60.1 |
| 5/2/2015 2:04:58 | 42.65 | 37.05 | 1,105 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 2:04:59 | 42.98 | 37.38 | 1,106 | 0.34 | 0.38 | 60.5 |
| 5/2/2015 2:04:59 | 43.31 | 37.71 | 1,106 | 0.34 | 0.38 | 60.5 |
| 5/2/2015 2:04:59 | 43.64 | 38.04 | 1,122 | 0.34 | 0.38 | 61.3 |
| 5/2/2015 2:05:00 | 43.96 | 38.36 | 1,122 | 0.34 | 0.38 | 61.3 |
| 5/2/2015 2:05:00 | 44.29 | 38.69 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 2:05:00 | 44.62 | 39.02 | 1,109 | 0.34 | 0.38 | 60.7 |
| 5/2/2015 2:05:01 | 44.95 | 39.35 | 1,109 | 0.34 | 0.38 | 60.7 |
| 5/2/2015 2:05:01 | 45.28 | 39.68 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:02 | 45.60 | 40.00 | 1,114 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:02 | 45.93 | 40.33 | 1,111 | 0.33 | 0.37 | 60.7 |
| 5/2/2015 2:05:02 | 46.26 | 40.66 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 2:05:03 | 46.59 | 40.99 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 2:05:03 | 46.92 | 41.32 | 1,117 | 0.34 | 0.38 | 61.1 |
| 5/2/2015 2:05:03 | 47.24 | 41.64 | 1,120 | 0.34 | 0.38 | 61.3 |
| 5/2/2015 2:05:04 | 47.57 | 41.97 | 1,120 | 0.34 | 0.38 | 61.3 |
| 5/2/2015 2:05:04 | 47.90 | 42.30 | 1,113 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:04 | 48.23 | 42.63 | 1,113 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:04 | 48.56 | 42.96 | 1,113 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:05 | 48.88 | 43.28 | 1,116 | 0.34 | 0.38 | 61.0 |
| 5/2/2015 2:05:05 | 49.21 | 43.61 | 1,116 | 0.34 | 0.38 | 61.0 |
| 5/2/2015 2:05:05 | 49.54 | 43.94 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/2/2015 2:05:06 | 49.87 | 44.27 | 1,113 | 0.33 | 0.38 | 60.9 |
| 5/2/2015 2:05:06 | 50.20 | 44.60 | 1,113 | 0.34 | 0.38 | 60.9 |
| 5/2/2015 2:05:06 | 50.53 | 44.93 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 2:05:07 | 50.85 | 45.25 | 1,104 | 0.33 | 0.38 | 60.4 |
| 5/2/2015 2:05:07 | 51.18 | 45.58 | 1,116 | 0.34 | 0.37 | 61.0 |
| 5/2/2015 2:05:07 | 51.51 | 45.91 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 2:05:08 | 51.84 | 46.24 | 1,110 | 0.33 | 0.38 | 60.7 |
| 5/2/2015 2:05:08 | 52.17 | 46.57 | 1,097 | 0.34 | 0.38 | 60.0 |
| 5/2/2015 2:05:08 | 52.49 | 46.89 | 1,097 | 0.34 | 0.38 | 60.0 |
| 5/2/2015 2:05:08 | 52.82 | 47.22 | 1,108 | 0.33 | 0.38 | 60.6 |
| 5/2/2015 2:05:09 | 53.15 | 47.55 | 1,085 | 0.33 | 0.38 | 59.3 |
| 5/2/2015 2:05:09 | 53.48 | 47.88 | 1,085 | 0.33 | 0.38 | 59.3 |
| 5/2/2015 2:05:10 | 53.81 | 48.21 | 1,085 | 0.33 | 0.39 | 59.3 |
| 5/2/2015 2:05:10 | 54.13 | 48.53 | 1,060 | 0.33 | 0.40 | 58.0 |
| 5/2/2015 2:05:10 | 54.46 | 48.86 | 1,060 | 0.33 | 0.40 | 58.0 |
| 5/2/2015 2:05:10 | 54.79 | 49.19 | 1,060 | 0.32 | 0.41 | 58.0 |
| 5/2/2015 2:05:16 | 55.12 | 49.52 | 17 | 3.56 | 0.44 | 0.9 |
| 5/2/2015 2:05:18 | 55.45 | 49.85 | 147 | 4.47 | 0.46 | 8.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 2:05:22 | 55.77 | 50.17 | 37 | 2.71 | 0.40 | 2.0 |
| 5/2/2015 | 2:05:23 | 56.10 | 50.50 | 171 | 3.06 | 0.48 | 9.3 |
| 5/2/2015 | 2:05:26 | 56.43 | 50.83 | 116 | 3.92 | 0.46 | 6.3 |
| 5/2/2015 | 2:05:30 | 56.76 | 51.16 | 95 | 3.99 | 0.46 | 5.2 |
| 5/2/2015 | 2:05:33 | 57.09 | 51.49 | 138 | 3.47 | 0.46 | 7.5 |
| 5/2/2015 | 2:05:40 | 57.41 | 51.81 | 64 | 3.73 | 0.46 | 3.5 |
| 5/2/2015 | 2:05:42 | 57.74 | 52.14 | 139 | 3.43 | 0.44 | 7.6 |
| 5/2/2015 | 2:05:44 | 58.07 | 52.47 | 214 | 3.65 | 0.45 | 11.7 |
| 5/2/2015 | 2:05:45 | 58.40 | 52.80 | 237 | 3.43 | 0.46 | 13.0 |
| 5/2/2015 | 2:05:56 | 58.73 | 53.13 | 35 | 3.37 | 0.47 | 1.9 |
| 5/2/2015 | 2:06:02 | 59.06 | 53.46 | 57 | 3.07 | 0.47 | 3.1 |
| 5/2/2015 | 2:06:09 | 59.38 | 53.78 | 64 | 3.41 | 0.46 | 3.5 |
| 5/2/2015 | 2:06:14 | 59.71 | 54.11 | 67 | 3.11 | 0.46 | 3.6 |
| 5/2/2015 | 2:06:17 | 59.96 | 54.36 | 84 | 4.19 | 0.47 | 4.6 |

## M89 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:03:26

**End Date:**
5/2/2015 2:07:57

**Operator Note:**
'5.6 5.9b Auto Complete'

**Northing:**
358,772.90

**Easting:**
240,424.30

**Tide (feet):**
5.60



## Hole: M9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 0:02:08 | 37.40 | 30.30 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 0:02:09 | 37.73 | 30.63 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:02:09 | 38.06 | 30.96 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 0:02:09 | 38.39 | 31.29 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 0:02:10 | 38.71 | 31.61 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 0:02:10 | 39.04 | 31.94 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 0:02:11 | 39.37 | 32.27 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 0:02:11 | 39.70 | 32.60 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:02:11 | 40.03 | 32.93 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:12 | 40.35 | 33.25 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:12 | 40.68 | 33.58 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:02:12 | 41.01 | 33.91 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:13 | 41.34 | 34.24 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:13 | 41.67 | 34.57 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:14 | 41.99 | 34.89 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:02:14 | 42.32 | 35.22 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 0:02:14 | 42.65 | 35.55 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:02:15 | 42.98 | 35.88 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:15 | 43.31 | 36.21 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 0:02:15 | 43.64 | 36.54 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 0:02:16 | 43.96 | 36.86 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:02:16 | 44.29 | 37.19 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:02:17 | 44.62 | 37.52 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 0:02:17 | 44.95 | 37.85 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 0:02:17 | 45.28 | 38.18 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 0:02:18 | 45.60 | 38.50 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 0:02:18 | 45.93 | 38.83 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 0:02:18 | 46.26 | 39.16 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 0:02:19 | 46.59 | 39.49 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 0:02:19 | 46.92 | 39.82 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 0:02:19 | 47.24 | 40.14 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 0:02:20 | 47.57 | 40.47 | 971 | 1.14 | 0.29 | 53.1 |
| 5/2/2015 0:02:20 | 47.90 | 40.80 | 971 | 1.14 | 0.29 | 53.1 |
| 5/2/2015 0:02:20 | 48.23 | 41.13 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 0:02:21 | 48.56 | 41.46 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 0:02:21 | 48.88 | 41.78 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 0:02:22 | 49.21 | 42.11 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 0:02:22 | 49.54 | 42.44 | 954 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 0:02:22 | 49.87 | 42.77 | 945 | 1.14 | 0.29 | 51.7 |
| 5/2/2015 0:02:23 | 50.20 | 43.10 | 928 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 0:02:23 | 50.53 | 43.43 | 928 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 0:02:37 | 50.85 | 43.75 | 16 | 1.14 | 0.29 | 0.9 |
| 5/2/2015 0:02:42 | 51.18 | 44.08 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 0:02:43 | 51.51 | 44.41 | 175 | 1.14 | 0.29 | 9.6 |
| 5/2/2015 0:02:43 | 51.84 | 44.74 | 335 | 1.14 | 0.29 | 18.3 |
| 5/2/2015 0:02:50 | 52.17 | 45.07 | 2 | 1.14 | 0.29 | 0.1 |
| 5/2/2015 0:02:53 | 52.49 | 45.39 | 85 | 1.14 | 0.29 | 4.6 |
| 5/2/2015 0:02:59 | 52.82 | 45.72 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 0:03:05 | 53.15 | 46.05 | 61 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 0:03:08 | 53.48 | 46.38 | 122 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 0:03:14 | 53.81 | 46.71 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 0:03:21 | 54.13 | 47.03 | 52 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 0:03:28 | 54.46 | 47.36 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 0:03:33 | 54.77 | 47.67 | 55 | 1.14 | 0.29 | 3.0 |

## M9 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 0:01:02

**End Date:**
5/2/2015 0:05:02

**Operator Note:**
'7.1 7.1 c Auto Complete'

**Northing:**
359,374.29

**Easting:**
240,407.53

**Tide (feet):**
7.10



## Hole: M90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 2:03:29 | 35.76 | 30.06 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:03:29 | 36.09 | 30.39 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 2:03:30 | 36.42 | 30.72 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:03:30 | 36.75 | 31.05 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 2:03:30 | 37.07 | 31.37 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:31 | 37.40 | 31.70 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:31 | 37.73 | 32.03 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:31 | 38.06 | 32.36 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:32 | 38.39 | 32.69 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:03:32 | 38.71 | 33.01 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 2:03:32 | 39.04 | 33.34 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:33 | 39.37 | 33.67 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:33 | 39.70 | 34.00 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:33 | 40.03 | 34.33 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:03:34 | 40.35 | 34.65 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 2:03:34 | 40.68 | 34.98 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 2:03:34 | 41.01 | 35.31 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:35 | 41.34 | 35.64 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:35 | 41.67 | 35.97 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:35 | 41.99 | 36.29 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:36 | 42.32 | 36.62 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:36 | 42.65 | 36.95 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 2:03:36 | 42.98 | 37.28 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 2:03:37 | 43.31 | 37.61 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:37 | 43.64 | 37.94 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:37 | 43.96 | 38.26 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:03:38 | 44.29 | 38.59 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:03:39 | 44.62 | 38.92 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:03:38 | 44.95 | 39.25 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:03:39 | 45.28 | 39.58 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:40 | 45.60 | 39.90 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:40 | 45.93 | 40.23 | 1,005 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 2:03:40 | 46.26 | 40.56 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:41 | 46.59 | 40.89 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:41 | 46.92 | 41.22 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 2:03:41 | 47.24 | 41.54 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:42 | 47.57 | 41.87 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:42 | 47.90 | 42.20 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:42 | 48.23 | 42.53 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:03:43 | 48.56 | 42.86 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 2:03:43 | 48.88 | 43.18 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:03:43 | 49.21 | 43.51 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:44 | 49.54 | 43.84 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 2:03:44 | 49.87 | 44.17 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:03:44 | 50.20 | 44.50 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:03:45 | 50.53 | 44.83 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:03:45 | 50.85 | 45.15 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 2:03:45 | 51.18 | 45.48 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:03:46 | 51.51 | 45.81 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 2:03:46 | 51.84 | 46.14 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 2:03:46 | 52.17 | 46.47 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:03:47 | 52.49 | 46.79 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 2:03:47 | 52.82 | 47.12 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 2:03:47 | 53.15 | 47.45 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 2:03:57 | 53.48 | 47.78 | 59 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 2:04:08 | 53.81 | 48.11 | 34 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 2:04:19 | 54.13 | 48.43 | 31 | 1.14 | 0.29 | 1.7 |
| 5/2/2015 2:04:32 | 54.46 | 48.76 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 2:04:35 | 54.61 | 48.91 | 40 | 1.14 | 0.29 | 2.2 |

## M90 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 2:02:18

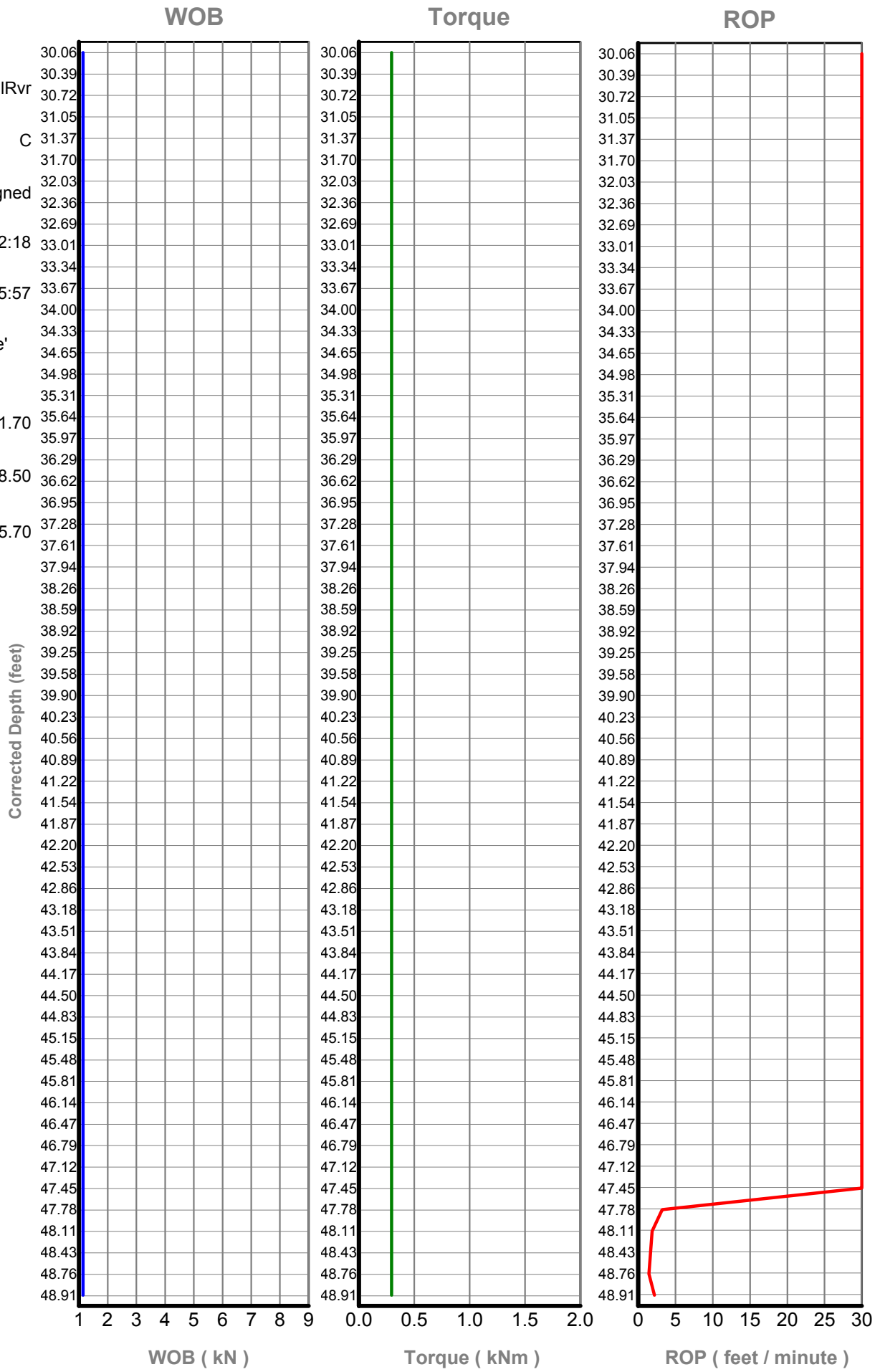
**End Date:**
5/2/2015 2:05:57

**Operator Note:**
'5.7 5.9 c Auto Complete'

**Northing:**
358,811.70

**Easting:**
240,488.50

**Tide (feet):**
5.70



## Hole: M91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:25:17 | 36.42 | 30.02 | 1,264 | 1.85 | 0.24 | 69.1 |
| 5/2/2015 1:25:17 | 36.75 | 30.35 | 1,258 | 1.87 | 0.24 | 68.8 |
| 5/2/2015 1:25:18 | 37.07 | 30.67 | 1,258 | 1.87 | 0.24 | 68.8 |
| 5/2/2015 1:25:18 | 37.40 | 31.00 | 1,258 | 1.85 | 0.24 | 68.8 |
| 5/2/2015 1:25:18 | 37.73 | 31.33 | 1,258 | 1.85 | 0.24 | 68.8 |
| 5/2/2015 1:25:18 | 38.06 | 31.66 | 1,294 | 1.85 | 0.24 | 70.7 |
| 5/2/2015 1:25:19 | 38.39 | 31.99 | 1,294 | 1.85 | 0.24 | 70.7 |
| 5/2/2015 1:25:19 | 38.71 | 32.31 | 1,282 | 1.89 | 0.24 | 70.1 |
| 5/2/2015 1:25:19 | 39.04 | 32.64 | 1,282 | 1.89 | 0.24 | 70.1 |
| 5/2/2015 1:25:19 | 39.37 | 32.97 | 1,286 | 1.87 | 0.24 | 70.3 |
| 5/2/2015 1:25:20 | 39.70 | 33.30 | 1,286 | 1.87 | 0.24 | 70.3 |
| 5/2/2015 1:25:20 | 40.03 | 33.63 | 1,277 | 1.87 | 0.24 | 69.8 |
| 5/2/2015 1:25:20 | 40.35 | 33.95 | 1,269 | 1.79 | 0.24 | 69.4 |
| 5/2/2015 1:25:21 | 40.68 | 34.28 | 1,269 | 1.79 | 0.24 | 69.4 |
| 5/2/2015 1:25:21 | 41.01 | 34.61 | 1,252 | 1.42 | 0.26 | 68.4 |
| 5/2/2015 1:25:22 | 41.34 | 34.94 | 1,252 | 1.42 | 0.26 | 68.4 |
| 5/2/2015 1:25:22 | 41.67 | 35.27 | 1,192 | 1.41 | 0.26 | 65.2 |
| 5/2/2015 1:25:23 | 41.99 | 35.59 | 915 | 1.20 | 0.26 | 50.0 |
| 5/2/2015 1:25:23 | 42.32 | 35.92 | 798 | 1.21 | 0.26 | 43.6 |
| 5/2/2015 1:25:24 | 42.65 | 36.25 | 677 | 1.21 | 0.26 | 37.0 |
| 5/2/2015 1:25:24 | 42.98 | 36.58 | 623 | 1.21 | 0.26 | 34.1 |
| 5/2/2015 1:25:25 | 43.31 | 36.91 | 609 | 1.21 | 0.26 | 33.3 |
| 5/2/2015 1:25:25 | 43.64 | 37.24 | 653 | 1.22 | 0.26 | 35.7 |
| 5/2/2015 1:25:26 | 43.96 | 37.56 | 651 | 1.21 | 0.26 | 35.6 |
| 5/2/2015 1:25:26 | 44.29 | 37.89 | 653 | 1.21 | 0.26 | 35.7 |
| 5/2/2015 1:25:27 | 44.62 | 38.22 | 633 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 1:25:27 | 44.95 | 38.55 | 633 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 1:25:28 | 45.28 | 38.88 | 640 | 1.17 | 0.26 | 35.0 |
| 5/2/2015 1:25:28 | 45.60 | 39.20 | 640 | 1.21 | 0.26 | 35.0 |
| 5/2/2015 1:25:29 | 45.93 | 39.53 | 643 | 1.21 | 0.26 | 35.1 |
| 5/2/2015 1:25:29 | 46.26 | 39.86 | 641 | 1.21 | 0.26 | 35.1 |
| 5/2/2015 1:25:30 | 46.59 | 40.19 | 654 | 1.21 | 0.26 | 35.8 |
| 5/2/2015 1:25:31 | 46.92 | 40.52 | 641 | 1.20 | 0.26 | 35.0 |
| 5/2/2015 1:25:32 | 47.24 | 40.84 | 642 | 1.21 | 0.26 | 35.1 |
| 5/2/2015 1:25:32 | 47.57 | 41.17 | 641 | 1.21 | 0.27 | 35.0 |
| 5/2/2015 1:25:33 | 47.90 | 41.50 | 645 | 1.21 | 0.26 | 35.2 |
| 5/2/2015 1:25:33 | 48.23 | 41.83 | 623 | 1.21 | 0.26 | 34.1 |
| 5/2/2015 1:25:34 | 48.56 | 42.16 | 623 | 1.21 | 0.26 | 34.1 |
| 5/2/2015 1:25:34 | 48.88 | 42.48 | 639 | 1.22 | 0.26 | 34.9 |
| 5/2/2015 1:25:35 | 49.21 | 42.81 | 642 | 1.21 | 0.26 | 35.1 |
| 5/2/2015 1:25:35 | 49.54 | 43.14 | 632 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 1:25:36 | 49.87 | 43.47 | 633 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 1:25:36 | 50.20 | 43.80 | 645 | 1.22 | 0.26 | 35.3 |
| 5/2/2015 1:25:37 | 50.53 | 44.13 | 633 | 1.21 | 0.26 | 34.6 |
| 5/2/2015 1:25:37 | 50.85 | 44.45 | 626 | 1.15 | 0.20 | 34.2 |
| 5/2/2015 1:25:38 | 51.18 | 44.78 | 626 | 1.11 | 0.20 | 34.2 |
| 5/2/2015 1:25:38 | 51.51 | 45.11 | 645 | 1.07 | 0.20 | 35.3 |
| 5/2/2015 1:25:39 | 51.84 | 45.44 | 650 | 1.09 | 0.20 | 35.5 |
| 5/2/2015 1:25:39 | 52.17 | 45.77 | 662 | 1.09 | 0.20 | 36.2 |
| 5/2/2015 1:25:40 | 52.49 | 46.09 | 671 | 1.09 | 0.20 | 36.7 |
| 5/2/2015 1:25:40 | 52.82 | 46.42 | 677 | 1.09 | 0.20 | 37.0 |
| 5/2/2015 1:25:41 | 53.15 | 46.75 | 668 | 1.10 | 0.20 | 36.5 |
| 5/2/2015 1:25:42 | 53.48 | 47.08 | 668 | 1.10 | 0.20 | 36.5 |
| 5/2/2015 1:25:43 | 53.81 | 47.41 | 658 | 1.09 | 0.20 | 36.0 |
| 5/2/2015 1:25:43 | 54.13 | 47.73 | 656 | 1.10 | 0.20 | 35.9 |
| 5/2/2015 1:25:44 | 54.46 | 48.06 | 642 | 1.09 | 0.20 | 35.1 |
| 5/2/2015 1:25:45 | 54.79 | 48.39 | 595 | 1.17 | 0.19 | 32.5 |
| 5/2/2015 1:25:58 | 55.12 | 48.72 | 72 | 1.16 | 1.13 | 3.9 |
| 5/2/2015 1:26:00 | 55.45 | 49.05 | 144 | 1.15 | 1.28 | 7.9 |
| 5/2/2015 1:26:02 | 55.77 | 49.37 | 154 | 1.12 | 1.33 | 8.4 |
| 5/2/2015 1:26:05 | 56.10 | 49.70 | 114 | 1.04 | 1.14 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:26:09 | 56.43 | 50.03 | 107 | 1.10 | 1.25 | 5.9 |
| 5/2/2015 | 1:26:12 | 56.76 | 50.36 | 104 | 1.07 | 1.22 | 5.7 |
| 5/2/2015 | 1:26:15 | 57.09 | 50.69 | 133 | 1.12 | 1.19 | 7.3 |
| 5/2/2015 | 1:26:17 | 57.41 | 51.01 | 152 | 1.11 | 1.19 | 8.3 |
| 5/2/2015 | 1:26:19 | 57.74 | 51.34 | 173 | 1.08 | 1.16 | 9.5 |
| 5/2/2015 | 1:26:32 | 58.07 | 51.67 | 0 | 1.87 | 1.03 | 0.0 |
| 5/2/2015 | 1:26:39 | 58.40 | 52.00 | 55 | 1.09 | 1.12 | 3.0 |
| 5/2/2015 | 1:26:43 | 58.73 | 52.33 | 81 | 1.11 | 1.07 | 4.4 |
| 5/2/2015 | 1:26:48 | 59.06 | 52.66 | 81 | 1.05 | 1.11 | 4.4 |
| 5/2/2015 | 1:26:50 | 59.38 | 52.98 | 162 | 1.09 | 0.95 | 8.9 |
| 5/2/2015 | 1:26:51 | 59.71 | 53.31 | 238 | 1.13 | 1.15 | 13.0 |
| 5/2/2015 | 1:26:59 | 60.04 | 53.64 | 50 | 1.04 | 0.95 | 2.7 |
| 5/2/2015 | 1:27:06 | 60.37 | 53.97 | 49 | 1.06 | 0.89 | 2.7 |
| 5/2/2015 | 1:27:11 | 60.70 | 54.30 | 75 | 1.11 | 1.02 | 4.1 |
| 5/2/2015 | 1:27:17 | 61.02 | 54.62 | 49 | 1.05 | 0.98 | 2.7 |
| 5/2/2015 | 1:27:32 | 61.35 | 54.95 | 0 | 1.95 | 1.14 | 0.0 |
| 5/2/2015 | 1:27:34 | 61.44 | 55.04 | 32 | 1.17 | 1.04 | 1.7 |

## M91 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/2/2015 1:17:13

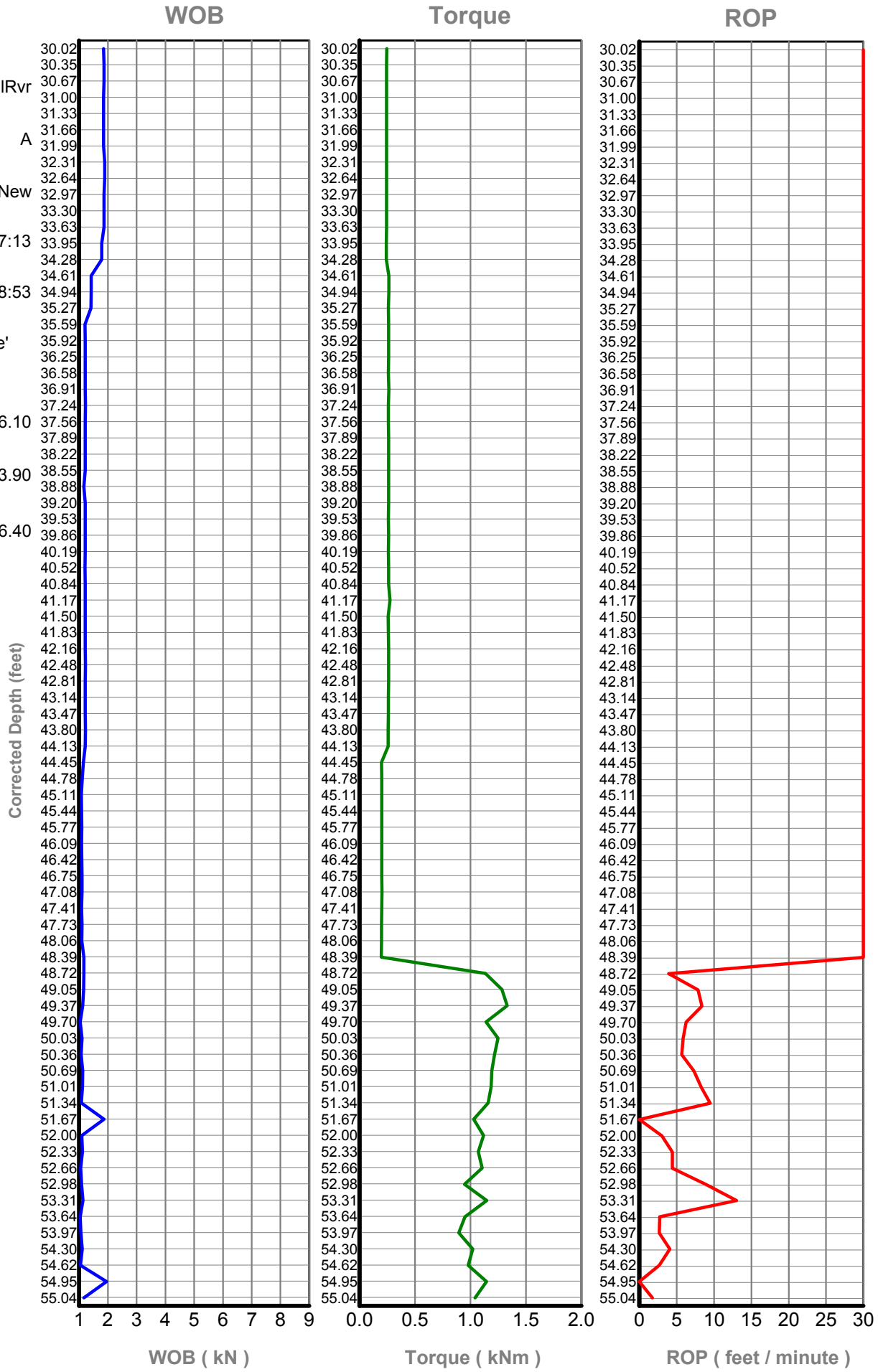
**End Date:**
5/2/2015 1:28:53

**Operator Note:**
'6.4 6.4 a Auto Complete'

**Northing:**
358,846.10

**Easting:**
240,553.90

**Tide (feet):**
6.40



## Hole: M92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:25:21 | 36.42 | 30.12 | 1,148 | 0.31 | 0.38 | 62.7 |
| 5/2/2015 1:25:21 | 36.75 | 30.45 | 1,148 | 0.32 | 0.37 | 62.7 |
| 5/2/2015 1:25:22 | 37.07 | 30.77 | 1,157 | 0.29 | 0.38 | 63.2 |
| 5/2/2015 1:25:22 | 37.40 | 31.10 | 1,157 | 0.29 | 0.38 | 63.2 |
| 5/2/2015 1:25:22 | 37.73 | 31.43 | 1,160 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 1:25:23 | 38.06 | 31.76 | 1,160 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 1:25:23 | 38.39 | 32.09 | 1,144 | 0.14 | 0.37 | 62.6 |
| 5/2/2015 1:25:23 | 38.71 | 32.41 | 1,144 | 0.31 | 0.37 | 62.6 |
| 5/2/2015 1:25:24 | 39.04 | 32.74 | 1,144 | 0.31 | 0.37 | 62.6 |
| 5/2/2015 1:25:24 | 39.37 | 33.07 | 1,160 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 1:25:24 | 39.70 | 33.40 | 1,160 | 0.31 | 0.38 | 63.5 |
| 5/2/2015 1:25:24 | 40.03 | 33.73 | 1,160 | 0.32 | 0.38 | 63.5 |
| 5/2/2015 1:25:25 | 40.35 | 34.05 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/2/2015 1:25:25 | 40.68 | 34.38 | 1,158 | 0.32 | 0.38 | 63.3 |
| 5/2/2015 1:25:25 | 41.01 | 34.71 | 1,168 | 0.32 | 0.37 | 63.8 |
| 5/2/2015 1:25:26 | 41.34 | 35.04 | 1,168 | 0.32 | 0.37 | 63.8 |
| 5/2/2015 1:25:26 | 41.67 | 35.37 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 1:25:26 | 41.99 | 35.69 | 1,191 | 0.31 | 0.38 | 65.1 |
| 5/2/2015 1:25:27 | 42.32 | 36.02 | 1,198 | 0.31 | 0.37 | 65.5 |
| 5/2/2015 1:25:27 | 42.65 | 36.35 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:25:27 | 42.98 | 36.68 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:25:27 | 43.31 | 37.01 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:25:28 | 43.64 | 37.34 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/2/2015 1:25:28 | 43.96 | 37.66 | 1,173 | 0.33 | 0.37 | 64.2 |
| 5/2/2015 1:25:29 | 44.29 | 37.99 | 1,167 | 0.32 | 0.37 | 63.8 |
| 5/2/2015 1:25:29 | 44.62 | 38.32 | 1,167 | 0.32 | 0.37 | 63.8 |
| 5/2/2015 1:25:29 | 44.95 | 38.65 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 1:25:29 | 45.28 | 38.98 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 1:25:30 | 45.60 | 39.30 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 1:25:30 | 45.93 | 39.63 | 1,127 | 0.32 | 0.38 | 61.6 |
| 5/2/2015 1:25:30 | 46.26 | 39.96 | 1,149 | 0.32 | 0.38 | 62.8 |
| 5/2/2015 1:25:31 | 46.59 | 40.29 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 1:25:31 | 46.92 | 40.62 | 1,180 | 0.32 | 0.38 | 64.5 |
| 5/2/2015 1:25:31 | 47.24 | 40.94 | 1,154 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 1:25:32 | 47.57 | 41.27 | 1,154 | 0.33 | 0.38 | 63.1 |
| 5/2/2015 1:25:32 | 47.90 | 41.60 | 1,140 | 0.33 | 0.37 | 62.4 |
| 5/2/2015 1:25:32 | 48.23 | 41.93 | 1,140 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 1:25:33 | 48.56 | 42.26 | 1,140 | 0.32 | 0.37 | 62.4 |
| 5/2/2015 1:25:33 | 48.88 | 42.58 | 1,176 | 0.32 | 0.38 | 64.3 |
| 5/2/2015 1:25:33 | 49.21 | 42.91 | 1,176 | 0.32 | 0.38 | 64.3 |
| 5/2/2015 1:25:33 | 49.54 | 43.24 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:25:34 | 49.87 | 43.57 | 1,168 | 0.32 | 0.38 | 63.9 |
| 5/2/2015 1:25:34 | 50.20 | 43.90 | 1,137 | 0.32 | 0.38 | 62.1 |
| 5/2/2015 1:25:34 | 50.53 | 44.23 | 1,137 | 0.32 | 0.37 | 62.1 |
| 5/2/2015 1:25:35 | 50.85 | 44.55 | 1,137 | 0.32 | 0.37 | 62.1 |
| 5/2/2015 1:25:35 | 51.18 | 44.88 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 1:25:35 | 51.51 | 45.21 | 1,139 | 0.32 | 0.37 | 62.3 |
| 5/2/2015 1:25:35 | 51.84 | 45.54 | 1,139 | 0.35 | 0.38 | 62.3 |
| 5/2/2015 1:25:36 | 52.17 | 45.87 | 1,169 | 0.37 | 0.40 | 63.9 |
| 5/2/2015 1:25:36 | 52.49 | 46.19 | 1,169 | 0.37 | 0.40 | 63.9 |
| 5/2/2015 1:25:36 | 52.82 | 46.52 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 1:25:37 | 53.15 | 46.85 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/2/2015 1:25:37 | 53.48 | 47.18 | 1,154 | 0.33 | 0.37 | 63.1 |
| 5/2/2015 1:25:37 | 53.81 | 47.51 | 1,185 | 0.33 | 0.37 | 64.8 |
| 5/2/2015 1:25:38 | 54.13 | 47.83 | 1,185 | 0.33 | 0.37 | 64.8 |
| 5/2/2015 1:25:38 | 54.46 | 48.16 | 1,185 | 0.31 | 0.40 | 64.8 |
| 5/2/2015 1:25:39 | 54.79 | 48.49 | 1,185 | 0.31 | 0.40 | 64.8 |
| 5/2/2015 1:25:44 | 55.12 | 48.82 | 40 | 3.88 | 0.45 | 2.2 |
| 5/2/2015 1:25:48 | 55.45 | 49.15 | 49 | 5.43 | 0.49 | 2.7 |
| 5/2/2015 1:25:51 | 55.77 | 49.47 | 108 | 4.07 | 0.45 | 5.9 |
| 5/2/2015 1:25:54 | 56.10 | 49.80 | 135 | 3.77 | 0.48 | 7.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:25:57 | 56.43 | 50.13 | 108 | 3.77 | 0.46 | 5.9 |
| 5/2/2015 | 1:26:01 | 56.76 | 50.46 | 107 | 3.39 | 0.47 | 5.9 |
| 5/2/2015 | 1:26:05 | 57.09 | 50.79 | 90 | 3.73 | 0.46 | 4.9 |
| 5/2/2015 | 1:26:09 | 57.41 | 51.11 | 104 | 3.77 | 0.46 | 5.7 |
| 5/2/2015 | 1:26:12 | 57.74 | 51.44 | 101 | 3.66 | 0.47 | 5.5 |
| 5/2/2015 | 1:26:16 | 58.07 | 51.77 | 100 | 3.54 | 0.46 | 5.5 |
| 5/2/2015 | 1:26:19 | 58.40 | 52.10 | 115 | 3.80 | 0.46 | 6.3 |
| 5/2/2015 | 1:26:22 | 58.73 | 52.43 | 117 | 3.67 | 0.46 | 6.4 |
| 5/2/2015 | 1:26:24 | 59.06 | 52.76 | 143 | 3.39 | 0.46 | 7.8 |
| 5/2/2015 | 1:26:31 | 59.38 | 53.08 | 38 | 2.78 | 0.47 | 2.1 |
| 5/2/2015 | 1:26:42 | 59.71 | 53.41 | 35 | 2.94 | 0.47 | 1.9 |
| 5/2/2015 | 1:26:52 | 60.04 | 53.74 | 39 | 2.96 | 0.46 | 2.1 |
| 5/2/2015 | 1:26:59 | 60.31 | 54.01 | 36 | 3.15 | 0.46 | 2.0 |

## M92 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:23:48

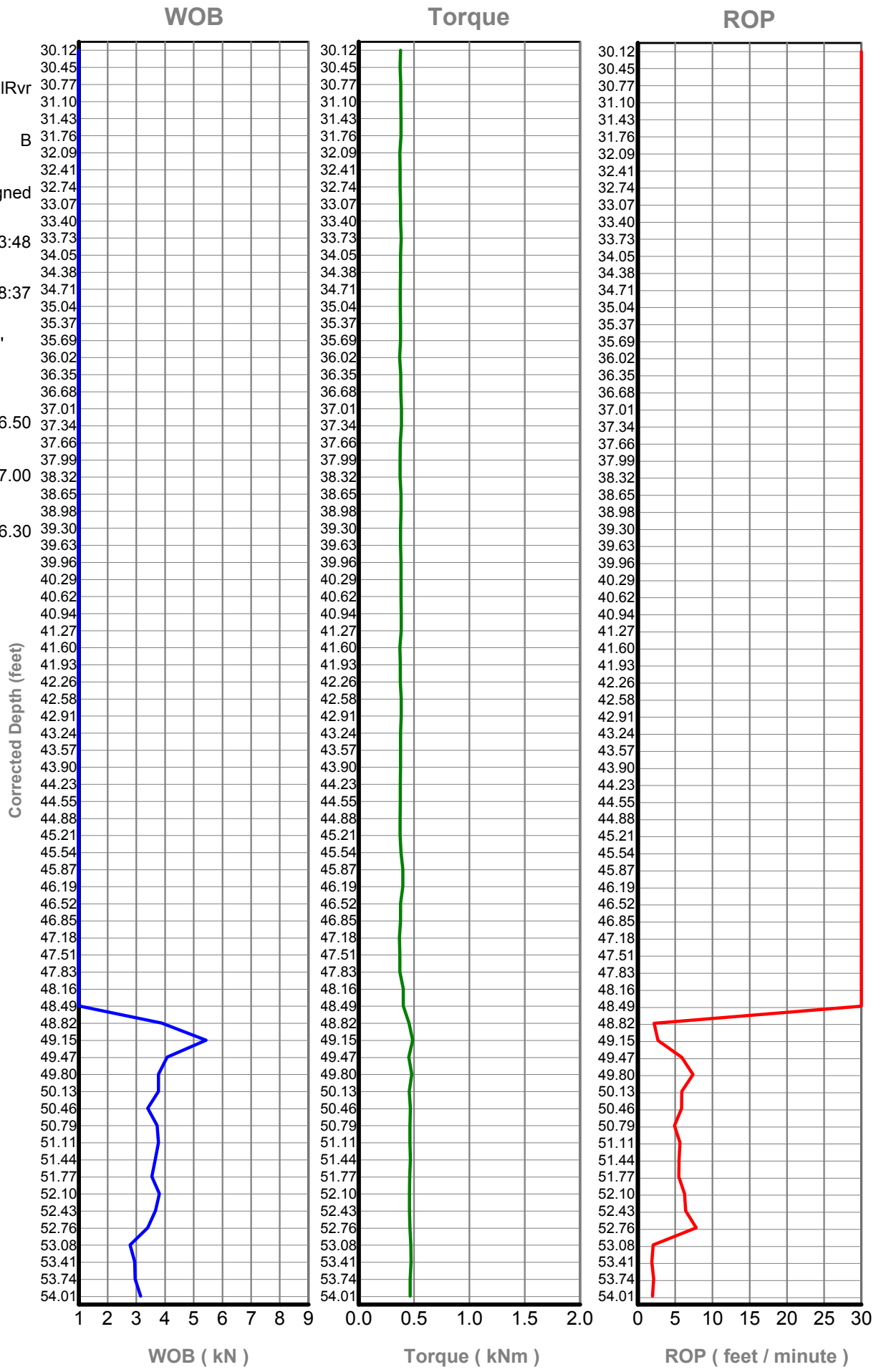
**End Date:**
5/2/2015 1:28:37

**Operator Note:**
'6.3 6.4b Auto Complete'

**Northing:**
358,886.50

**Easting:**
240,617.00

**Tide (feet):**
6.30



## Hole: M93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:23:57 | 36.42 | 30.12 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 1:23:57 | 36.75 | 30.45 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:23:58 | 37.07 | 30.77 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:23:58 | 37.40 | 31.10 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:23:58 | 37.73 | 31.43 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:23:59 | 38.06 | 31.76 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:23:59 | 38.39 | 32.09 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 1:23:59 | 38.71 | 32.41 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:24:00 | 39.04 | 32.74 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:24:00 | 39.37 | 33.07 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 1:24:00 | 39.70 | 33.40 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:24:01 | 40.03 | 33.73 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:24:01 | 40.35 | 34.05 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:24:01 | 40.68 | 34.38 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:24:02 | 41.01 | 34.71 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:24:02 | 41.34 | 35.04 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:24:02 | 41.67 | 35.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:24:03 | 41.99 | 35.69 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 1:24:03 | 42.32 | 36.02 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:24:03 | 42.65 | 36.35 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 1:24:03 | 42.98 | 36.68 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:24:04 | 43.31 | 37.01 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:24:04 | 43.64 | 37.34 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:24:05 | 43.96 | 37.66 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 1:24:05 | 44.29 | 37.99 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 1:24:06 | 44.62 | 38.32 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 1:24:06 | 44.95 | 38.65 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:24:06 | 45.28 | 38.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:24:07 | 45.60 | 39.30 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:24:07 | 45.93 | 39.63 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:07 | 46.26 | 39.96 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:08 | 46.59 | 40.29 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:08 | 46.92 | 40.62 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:24:08 | 47.24 | 40.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:24:09 | 47.57 | 41.27 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 1:24:09 | 47.90 | 41.60 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:24:09 | 48.23 | 41.93 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:24:10 | 48.56 | 42.26 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 1:24:10 | 48.88 | 42.58 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:24:10 | 49.21 | 42.91 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:24:11 | 49.54 | 43.24 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 1:24:11 | 49.87 | 43.57 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:24:11 | 50.20 | 43.90 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:12 | 50.53 | 44.23 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:12 | 50.85 | 44.55 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 1:24:12 | 51.18 | 44.88 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:24:13 | 51.51 | 45.21 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:24:13 | 51.84 | 45.54 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 1:24:13 | 52.17 | 45.87 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:24:14 | 52.49 | 46.19 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 1:24:14 | 52.82 | 46.52 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 1:24:14 | 53.15 | 46.85 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:24:15 | 53.48 | 47.18 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 1:24:15 | 53.81 | 47.51 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 1:24:15 | 54.13 | 47.83 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 1:24:23 | 54.46 | 48.16 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 1:24:25 | 54.79 | 48.49 | 91 | 1.14 | 0.29 | 5.0 |
| 5/2/2015 1:24:26 | 55.12 | 48.82 | 179 | 1.14 | 0.29 | 9.8 |
| 5/2/2015 1:24:27 | 55.45 | 49.15 | 215 | 1.14 | 0.29 | 11.7 |
| 5/2/2015 1:24:29 | 55.77 | 49.47 | 242 | 1.14 | 0.29 | 13.3 |
| 5/2/2015 1:24:30 | 56.10 | 49.80 | 277 | 1.14 | 0.29 | 15.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:24:32 | 56.43 | 50.13 | 284 | 1.14 | 0.29 | 15.5 |
| 5/2/2015 | 1:24:39 | 56.76 | 50.46 | 42 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 1:24:48 | 57.09 | 50.79 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 1:24:56 | 57.41 | 51.11 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 1:25:04 | 57.74 | 51.44 | 44 | 1.14 | 0.29 | 2.4 |

## M93 - Summary

**Pattern Number:**
AreaM_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:22:45

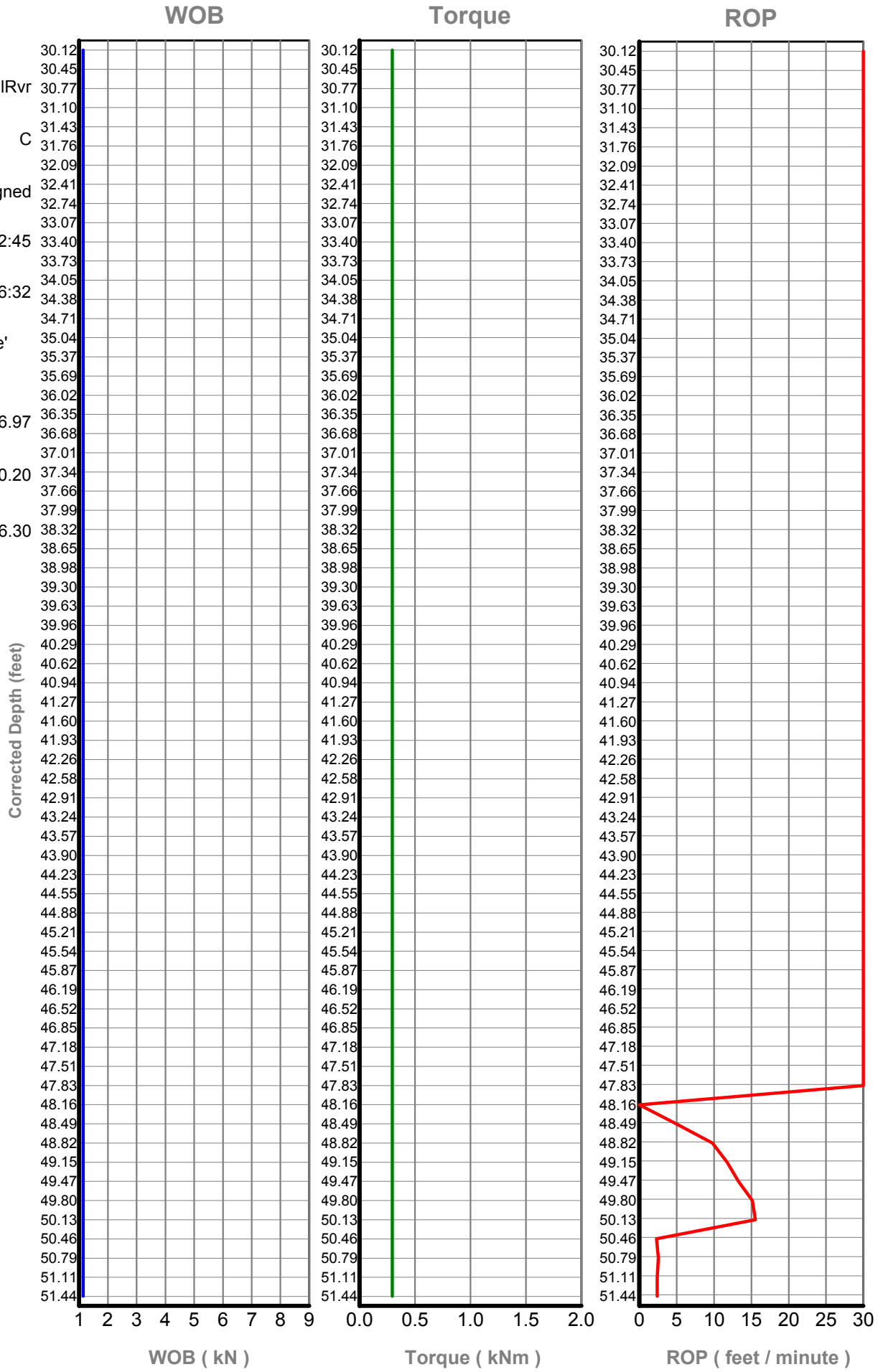
**End Date:**
5/2/2015 1:26:32

**Operator Note:**
'6.3 6.4 c Auto Complete'

**Northing:**
358,926.97

**Easting:**
240,680.20

**Tide (feet):**
6.30



## Hole: M94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 6:21:17 | 32.15 | 30.25 | 1,097 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:18 | 32.48 | 30.58 | 1,097 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:18 | 32.81 | 30.91 | 1,097 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:18 | 33.14 | 31.24 | 1,104 | 0.54 | 0.17 | 60.4 |
| 5/2/2015 6:21:19 | 33.46 | 31.56 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:19 | 33.79 | 31.89 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:19 | 34.12 | 32.22 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:20 | 34.45 | 32.55 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:20 | 34.78 | 32.88 | 1,084 | 0.54 | 0.17 | 59.3 |
| 5/2/2015 6:21:20 | 35.11 | 33.21 | 1,088 | 0.54 | 0.17 | 59.5 |
| 5/2/2015 6:21:21 | 35.43 | 33.53 | 1,088 | 0.54 | 0.17 | 59.5 |
| 5/2/2015 6:21:21 | 35.76 | 33.86 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:22 | 36.09 | 34.19 | 1,088 | 0.54 | 0.17 | 59.5 |
| 5/2/2015 6:21:22 | 36.42 | 34.52 | 1,088 | 0.54 | 0.17 | 59.5 |
| 5/2/2015 6:21:22 | 36.75 | 34.85 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:23 | 37.07 | 35.17 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:23 | 37.40 | 35.50 | 1,100 | 0.54 | 0.17 | 60.2 |
| 5/2/2015 6:21:23 | 37.73 | 35.83 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:24 | 38.06 | 36.16 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:24 | 38.39 | 36.49 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:24 | 38.71 | 36.81 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:25 | 39.04 | 37.14 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:25 | 39.37 | 37.47 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:25 | 39.70 | 37.80 | 1,094 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 6:21:25 | 40.03 | 38.13 | 1,096 | 0.54 | 0.17 | 60.0 |
| 5/2/2015 6:21:26 | 40.35 | 38.45 | 1,093 | 0.54 | 0.17 | 59.7 |
| 5/2/2015 6:21:26 | 40.68 | 38.78 | 1,093 | 0.54 | 0.17 | 59.7 |
| 5/2/2015 6:21:26 | 41.01 | 39.11 | 1,096 | 0.54 | 0.17 | 59.9 |
| 5/2/2015 6:21:27 | 41.34 | 39.44 | 1,105 | 0.54 | 0.17 | 60.4 |
| 5/2/2015 6:21:27 | 41.67 | 39.77 | 1,105 | 0.54 | 0.17 | 60.4 |
| 5/2/2015 6:21:27 | 41.99 | 40.09 | 1,108 | 0.54 | 0.17 | 60.6 |
| 5/2/2015 6:21:28 | 42.32 | 40.42 | 1,108 | 0.54 | 0.17 | 60.6 |
| 5/2/2015 6:21:28 | 42.65 | 40.75 | 1,099 | 0.54 | 0.17 | 60.1 |
| 5/2/2015 6:21:29 | 42.98 | 41.08 | 1,050 | 0.54 | 0.17 | 57.4 |
| 5/2/2015 6:21:29 | 43.31 | 41.41 | 941 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 6:21:30 | 43.64 | 41.74 | 838 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 6:21:30 | 43.96 | 42.06 | 737 | 0.54 | 0.17 | 40.3 |
| 5/2/2015 6:21:31 | 44.29 | 42.39 | 658 | 0.54 | 0.17 | 36.0 |
| 5/2/2015 6:21:31 | 44.62 | 42.72 | 613 | 0.54 | 0.17 | 33.5 |
| 5/2/2015 6:21:32 | 44.95 | 43.05 | 621 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 6:21:32 | 45.28 | 43.38 | 628 | 0.54 | 0.17 | 34.4 |
| 5/2/2015 6:21:33 | 45.60 | 43.70 | 628 | 0.54 | 0.17 | 34.4 |
| 5/2/2015 6:21:34 | 45.93 | 44.03 | 623 | 0.54 | 0.17 | 34.0 |
| 5/2/2015 6:21:35 | 46.26 | 44.36 | 620 | 0.54 | 0.17 | 33.9 |
| 5/2/2015 6:21:35 | 46.59 | 44.69 | 614 | 0.54 | 0.17 | 33.6 |
| 5/2/2015 6:21:36 | 46.92 | 45.02 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 6:21:36 | 47.24 | 45.34 | 605 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 6:21:37 | 47.57 | 45.67 | 602 | 0.54 | 0.17 | 32.9 |
| 5/2/2015 6:21:37 | 47.90 | 46.00 | 602 | 0.54 | 0.17 | 32.9 |
| 5/2/2015 6:21:38 | 48.23 | 46.33 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 6:21:39 | 48.56 | 46.66 | 593 | 0.54 | 0.17 | 32.4 |
| 5/2/2015 6:21:39 | 48.88 | 46.98 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 6:21:40 | 49.21 | 47.31 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 6:21:40 | 49.54 | 47.64 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 6:21:41 | 49.87 | 47.97 | 587 | 0.54 | 0.17 | 32.1 |
| 5/2/2015 6:21:42 | 50.20 | 48.30 | 588 | 0.54 | 0.17 | 32.1 |
| 5/2/2015 6:21:42 | 50.53 | 48.63 | 585 | 0.54 | 0.17 | 32.0 |
| 5/2/2015 6:21:43 | 50.85 | 48.95 | 581 | 0.54 | 0.17 | 31.8 |
| 5/2/2015 6:21:43 | 51.18 | 49.28 | 593 | 0.54 | 0.17 | 32.4 |
| 5/2/2015 6:21:44 | 51.51 | 49.61 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 6:21:44 | 51.84 | 49.94 | 593 | 0.54 | 0.17 | 32.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 6:21:46 | 52.17 | 50.27 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 | 6:21:46 | 52.49 | 50.59 | 582 | 0.54 | 0.17 | 31.8 |
| 5/2/2015 | 6:21:47 | 52.82 | 50.92 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 | 6:21:47 | 53.15 | 51.25 | 579 | 0.54 | 0.17 | 31.7 |
| 5/2/2015 | 6:21:48 | 53.48 | 51.58 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 | 6:21:58 | 53.81 | 51.91 | 71 | 0.54 | 0.17 | 3.9 |
| 5/2/2015 | 6:21:59 | 54.13 | 52.23 | 191 | 0.54 | 0.17 | 10.4 |
| 5/2/2015 | 6:21:59 | 54.46 | 52.56 | 308 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 | 6:22:00 | 54.79 | 52.89 | 537 | 0.54 | 0.17 | 29.4 |
| 5/2/2015 | 6:22:01 | 55.12 | 53.22 | 578 | 0.54 | 0.17 | 31.6 |
| 5/2/2015 | 6:22:01 | 55.45 | 53.55 | 570 | 0.54 | 0.17 | 31.2 |
| 5/2/2015 | 6:22:02 | 55.77 | 53.87 | 561 | 0.54 | 0.17 | 30.7 |
| 5/2/2015 | 6:22:03 | 56.10 | 54.20 | 541 | 0.54 | 0.17 | 29.6 |
| 5/2/2015 | 6:22:03 | 56.43 | 54.53 | 523 | 0.54 | 0.17 | 28.6 |
| 5/2/2015 | 6:22:04 | 56.76 | 54.86 | 515 | 0.54 | 0.17 | 28.1 |
| 5/2/2015 | 6:22:04 | 56.94 | 55.04 | 511 | 0.54 | 0.17 | 28.0 |

## M94 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 5:44:49

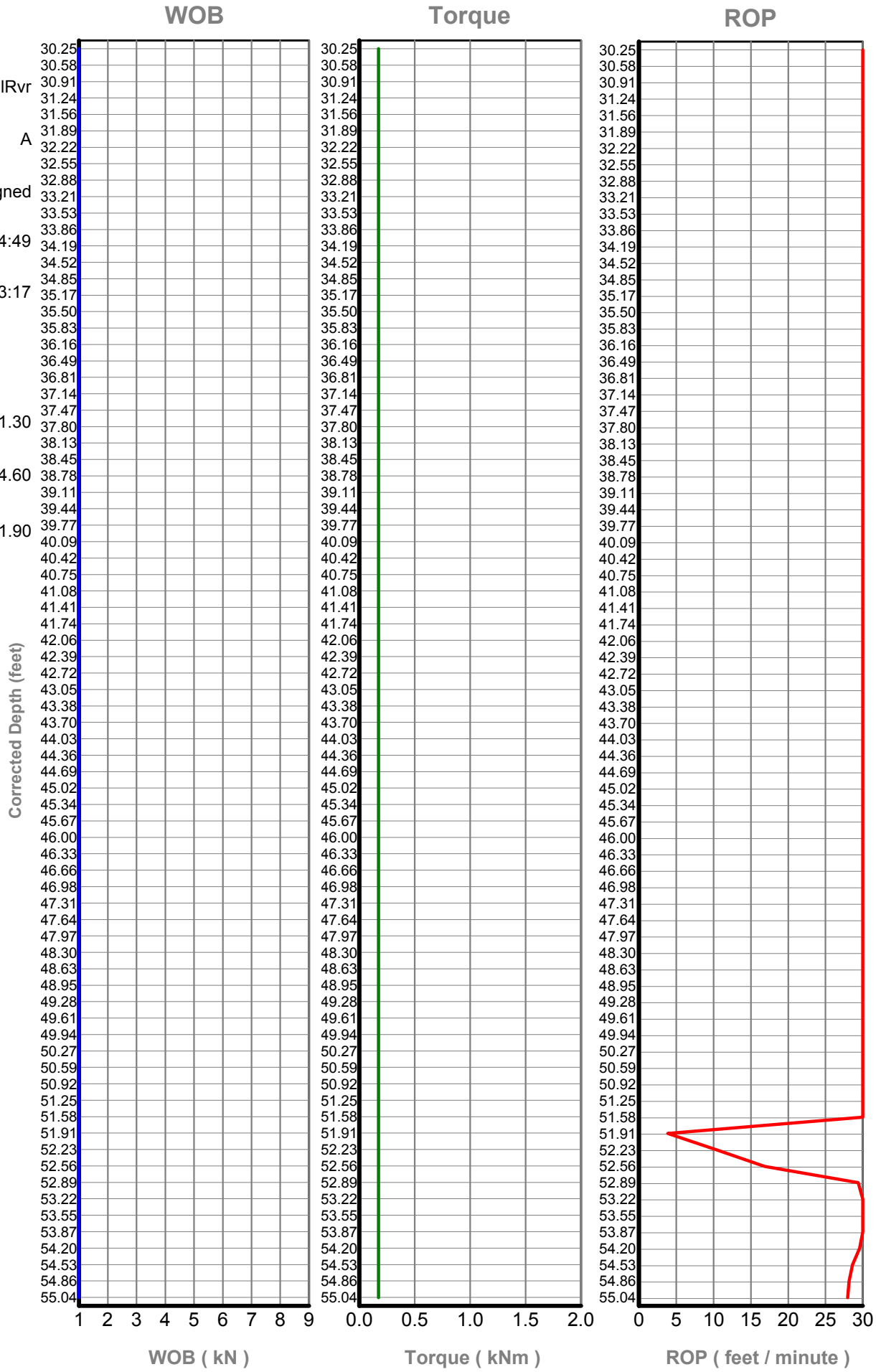
**End Date:**
5/2/2015 6:23:17

**Operator Note:**
'1.9 '1.5 1.6 a Auto Complete'

**Northing:**
358,541.30

**Easting:**
240,214.60

**Tide (feet):**
1.90



## Hole: M95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 6:22:16 | 31.82 | 30.32 | 1,154 | 0.31 | 0.38 | 63.1 |
| 5/2/2015 6:22:16 | 32.15 | 30.65 | 1,154 | 0.28 | 0.38 | 63.1 |
| 5/2/2015 6:22:16 | 32.48 | 30.98 | 1,154 | 0.28 | 0.38 | 63.1 |
| 5/2/2015 6:22:16 | 32.81 | 31.31 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/2/2015 6:22:17 | 33.14 | 31.64 | 1,169 | 0.30 | 0.38 | 63.9 |
| 5/2/2015 6:22:17 | 33.46 | 31.96 | 1,169 | 0.30 | 0.38 | 63.9 |
| 5/2/2015 6:22:17 | 33.79 | 32.29 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 6:22:18 | 34.12 | 32.62 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/2/2015 6:22:18 | 34.45 | 32.95 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 6:22:18 | 34.78 | 33.28 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/2/2015 6:22:18 | 35.11 | 33.61 | 1,169 | 0.29 | 0.37 | 63.9 |
| 5/2/2015 6:22:19 | 35.43 | 33.93 | 1,179 | 0.29 | 0.38 | 64.5 |
| 5/2/2015 6:22:19 | 35.76 | 34.26 | 1,179 | 0.29 | 0.38 | 64.5 |
| 5/2/2015 6:22:19 | 36.09 | 34.59 | 1,169 | 0.29 | 0.38 | 63.9 |
| 5/2/2015 6:22:20 | 36.42 | 34.92 | 1,169 | 0.29 | 0.38 | 63.9 |
| 5/2/2015 6:22:20 | 36.75 | 35.25 | 1,174 | 0.29 | 0.38 | 64.2 |
| 5/2/2015 6:22:20 | 37.07 | 35.57 | 1,161 | 0.29 | 0.38 | 63.5 |
| 5/2/2015 6:22:21 | 37.40 | 35.90 | 1,161 | 0.29 | 0.38 | 63.5 |
| 5/2/2015 6:22:21 | 37.73 | 36.23 | 1,151 | 0.29 | 0.38 | 62.9 |
| 5/2/2015 6:22:21 | 38.06 | 36.56 | 1,151 | 0.29 | 0.38 | 62.9 |
| 5/2/2015 6:22:21 | 38.39 | 36.89 | 1,151 | 0.32 | 0.39 | 62.9 |
| 5/2/2015 6:22:22 | 38.71 | 37.21 | 1,151 | 0.32 | 0.39 | 62.9 |
| 5/2/2015 6:22:22 | 39.04 | 37.54 | 1,165 | 0.27 | 0.38 | 63.7 |
| 5/2/2015 6:22:22 | 39.37 | 37.87 | 1,165 | 0.28 | 0.37 | 63.7 |
| 5/2/2015 6:22:23 | 39.70 | 38.20 | 1,165 | 0.28 | 0.37 | 63.7 |
| 5/2/2015 6:22:23 | 40.03 | 38.53 | 1,163 | 0.29 | 0.37 | 63.6 |
| 5/2/2015 6:22:24 | 40.35 | 38.85 | 1,163 | 0.29 | 0.37 | 63.6 |
| 5/2/2015 6:22:24 | 40.68 | 39.18 | 1,189 | 0.29 | 0.38 | 65.0 |
| 5/2/2015 6:22:24 | 41.01 | 39.51 | 1,189 | 0.29 | 0.38 | 65.0 |
| 5/2/2015 6:22:24 | 41.34 | 39.84 | 1,202 | 0.29 | 0.37 | 65.7 |
| 5/2/2015 6:22:25 | 41.67 | 40.17 | 1,178 | 0.29 | 0.37 | 64.4 |
| 5/2/2015 6:22:25 | 41.99 | 40.49 | 1,178 | 0.29 | 0.37 | 64.4 |
| 5/2/2015 6:22:25 | 42.32 | 40.82 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:26 | 42.65 | 41.15 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:26 | 42.98 | 41.48 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/2/2015 6:22:26 | 43.31 | 41.81 | 1,191 | 0.29 | 0.37 | 65.1 |
| 5/2/2015 6:22:26 | 43.64 | 42.14 | 1,181 | 0.28 | 0.38 | 64.6 |
| 5/2/2015 6:22:27 | 43.96 | 42.46 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/2/2015 6:22:27 | 44.29 | 42.79 | 1,191 | 0.29 | 0.38 | 65.1 |
| 5/2/2015 6:22:27 | 44.62 | 43.12 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/2/2015 6:22:28 | 44.95 | 43.45 | 1,200 | 0.29 | 0.37 | 65.6 |
| 5/2/2015 6:22:28 | 45.28 | 43.78 | 1,187 | 0.29 | 0.38 | 64.9 |
| 5/2/2015 6:22:28 | 45.60 | 44.10 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:29 | 45.93 | 44.43 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:29 | 46.26 | 44.76 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:29 | 46.59 | 45.09 | 1,194 | 0.29 | 0.37 | 65.3 |
| 5/2/2015 6:22:29 | 46.92 | 45.42 | 1,197 | 0.29 | 0.38 | 65.4 |
| 5/2/2015 6:22:30 | 47.24 | 45.74 | 1,197 | 0.29 | 0.38 | 65.4 |
| 5/2/2015 6:22:30 | 47.57 | 46.07 | 1,194 | 0.29 | 0.38 | 65.3 |
| 5/2/2015 6:22:30 | 47.90 | 46.40 | 1,184 | 0.29 | 0.37 | 64.7 |
| 5/2/2015 6:22:31 | 48.23 | 46.73 | 1,184 | 0.29 | 0.37 | 64.7 |
| 5/2/2015 6:22:31 | 48.56 | 47.06 | 1,184 | 0.29 | 0.38 | 64.7 |
| 5/2/2015 6:22:31 | 48.88 | 47.38 | 1,184 | 0.29 | 0.38 | 64.7 |
| 5/2/2015 6:22:31 | 49.21 | 47.71 | 1,188 | 0.29 | 0.39 | 64.9 |
| 5/2/2015 6:22:32 | 49.54 | 48.04 | 1,188 | 0.29 | 0.39 | 64.9 |
| 5/2/2015 6:22:32 | 49.87 | 48.37 | 1,189 | 0.31 | 0.38 | 65.0 |
| 5/2/2015 6:22:32 | 50.20 | 48.70 | 1,170 | 0.29 | 0.38 | 64.0 |
| 5/2/2015 6:22:33 | 50.53 | 49.03 | 1,170 | 0.29 | 0.38 | 64.0 |
| 5/2/2015 6:22:33 | 50.85 | 49.35 | 1,161 | 0.29 | 0.38 | 63.5 |
| 5/2/2015 6:22:34 | 51.18 | 49.68 | 1,161 | 0.29 | 0.38 | 63.5 |
| 5/2/2015 6:22:34 | 51.51 | 50.01 | 1,173 | 0.29 | 0.38 | 64.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 6:22:34 | 51.84 | 50.34 | 1,153 | 0.29 | 0.38 | 63.1 |
| 5/2/2015 | 6:22:35 | 52.17 | 50.67 | 1,153 | 0.29 | 0.38 | 63.1 |
| 5/2/2015 | 6:22:35 | 52.49 | 50.99 | 1,142 | 0.29 | 0.39 | 62.4 |
| 5/2/2015 | 6:22:35 | 52.82 | 51.32 | 1,142 | 0.29 | 0.39 | 62.4 |
| 5/2/2015 | 6:22:35 | 53.15 | 51.65 | 1,127 | 0.29 | 0.39 | 61.6 |
| 5/2/2015 | 6:22:36 | 53.48 | 51.98 | 1,113 | 0.30 | 0.38 | 60.9 |
| 5/2/2015 | 6:22:36 | 53.81 | 52.31 | 1,113 | 0.30 | 0.38 | 60.9 |
| 5/2/2015 | 6:22:36 | 54.13 | 52.63 | 1,093 | 0.29 | 0.39 | 59.7 |
| 5/2/2015 | 6:22:37 | 54.46 | 52.96 | 1,073 | 0.28 | 0.39 | 58.6 |
| 5/2/2015 | 6:22:37 | 54.79 | 53.29 | 1,073 | 0.28 | 0.39 | 58.6 |
| 5/2/2015 | 6:22:37 | 55.12 | 53.62 | 1,049 | 0.29 | 0.39 | 57.3 |
| 5/2/2015 | 6:22:38 | 55.45 | 53.95 | 1,043 | 0.29 | 0.40 | 57.1 |
| 5/2/2015 | 6:22:38 | 55.77 | 54.27 | 1,043 | 0.29 | 0.40 | 57.1 |
| 5/2/2015 | 6:22:38 | 56.10 | 54.60 | 1,023 | 0.29 | 0.40 | 56.0 |
| 5/2/2015 | 6:22:39 | 56.43 | 54.93 | 1,003 | 0.28 | 0.40 | 54.8 |
| 5/2/2015 | 6:22:39 | 56.76 | 55.26 | 977 | 0.20 | 0.24 | 53.4 |
| 5/2/2015 | 6:22:39 | 56.95 | 55.45 | 977 | 0.20 | 0.24 | 53.4 |

## M95 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 6:20:42

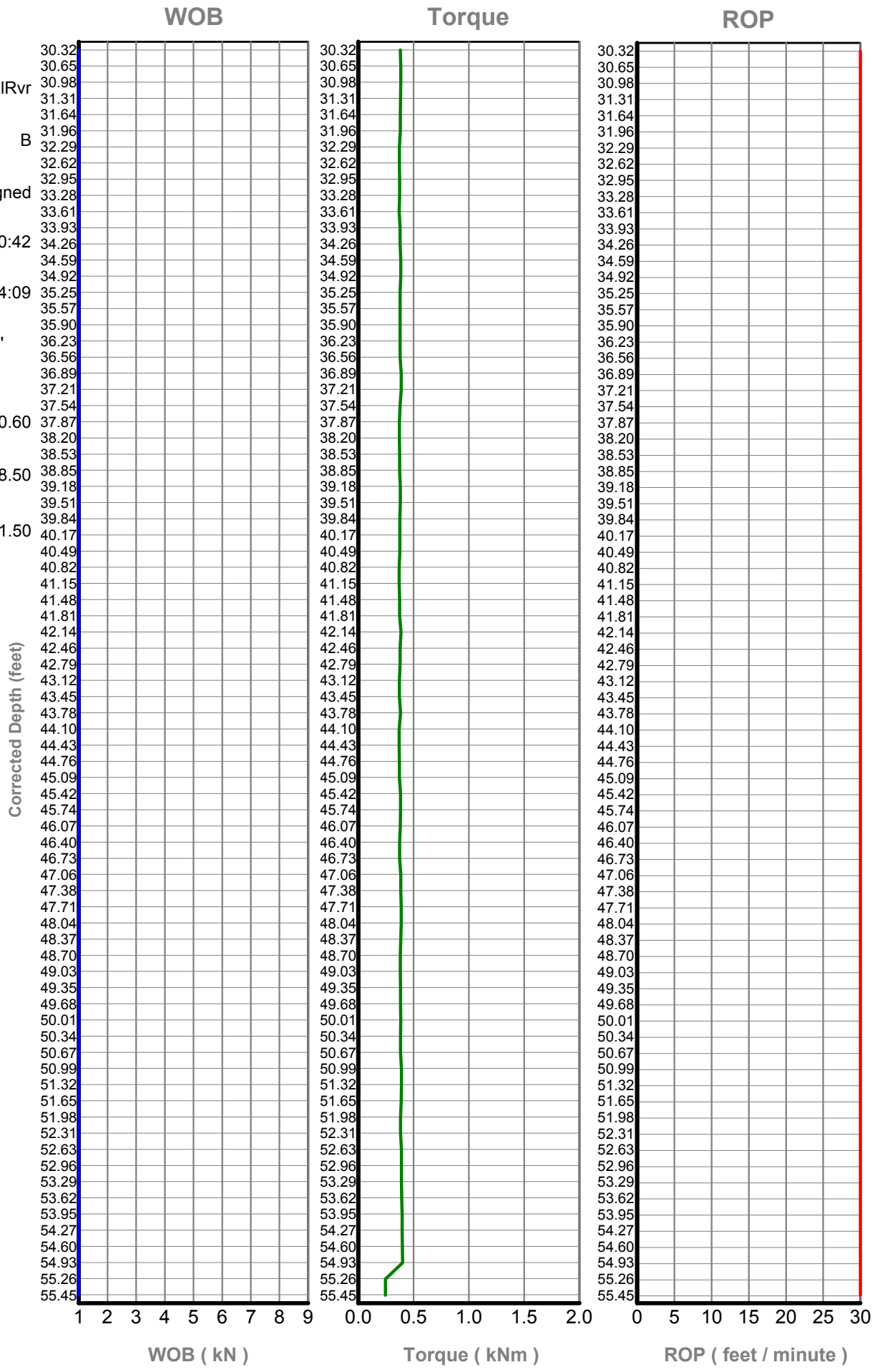
**End Date:**
5/2/2015 6:24:09

**Operator Note:**
'1.5 1.6b Auto Complete'

**Northing:**
358,580.60

**Easting:**
240,278.50

**Tide (feet):**
1.50



## Hole: M96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 6:21:24 | 31.82 | 30.32 | 864 | 1.14 | 0.29 | 47.3 |
| 5/2/2015 6:21:25 | 32.15 | 30.65 | 867 | 1.14 | 0.29 | 47.4 |
| 5/2/2015 6:21:25 | 32.48 | 30.98 | 866 | 1.14 | 0.29 | 47.4 |
| 5/2/2015 6:21:26 | 32.81 | 31.31 | 866 | 1.14 | 0.29 | 47.4 |
| 5/2/2015 6:21:26 | 33.14 | 31.64 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 6:21:26 | 33.46 | 31.96 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 6:21:27 | 33.79 | 32.29 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 6:21:27 | 34.12 | 32.62 | 872 | 1.14 | 0.29 | 47.7 |
| 5/2/2015 6:21:28 | 34.45 | 32.95 | 872 | 1.14 | 0.29 | 47.7 |
| 5/2/2015 6:21:28 | 34.78 | 33.28 | 872 | 1.14 | 0.29 | 47.7 |
| 5/2/2015 6:21:28 | 35.11 | 33.61 | 878 | 1.14 | 0.29 | 48.0 |
| 5/2/2015 6:21:29 | 35.43 | 33.93 | 898 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 6:21:29 | 35.76 | 34.26 | 898 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 6:21:29 | 36.09 | 34.59 | 916 | 1.14 | 0.29 | 50.1 |
| 5/2/2015 6:21:30 | 36.42 | 34.92 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 6:21:30 | 36.75 | 35.25 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 6:21:30 | 37.07 | 35.57 | 951 | 1.14 | 0.29 | 52.0 |
| 5/2/2015 6:21:31 | 37.40 | 35.90 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:32 | 37.73 | 36.23 | 968 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 6:21:32 | 38.06 | 36.56 | 968 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 6:21:32 | 38.39 | 36.89 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 6:21:33 | 38.71 | 37.21 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:33 | 39.04 | 37.54 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:33 | 39.37 | 37.87 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 6:21:34 | 39.70 | 38.20 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:34 | 40.03 | 38.53 | 958 | 1.14 | 0.29 | 52.4 |
| 5/2/2015 6:21:35 | 40.35 | 38.85 | 958 | 1.14 | 0.29 | 52.4 |
| 5/2/2015 6:21:35 | 40.68 | 39.18 | 958 | 1.14 | 0.29 | 52.4 |
| 5/2/2015 6:21:35 | 41.01 | 39.51 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:36 | 41.34 | 39.84 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:36 | 41.67 | 40.17 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:36 | 41.99 | 40.49 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:37 | 42.32 | 40.82 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 6:21:37 | 42.65 | 41.15 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 6:21:37 | 42.98 | 41.48 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 6:21:38 | 43.31 | 41.81 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 6:21:38 | 43.64 | 42.14 | 980 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 6:21:38 | 43.96 | 42.46 | 973 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 6:21:39 | 44.29 | 42.79 | 985 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 6:21:39 | 44.62 | 43.12 | 985 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 6:21:39 | 44.95 | 43.45 | 985 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 6:21:40 | 45.28 | 43.78 | 982 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 6:21:40 | 45.60 | 44.10 | 982 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 6:21:40 | 45.93 | 44.43 | 1,005 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 6:21:41 | 46.26 | 44.76 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 6:21:42 | 46.59 | 45.09 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 6:21:42 | 46.92 | 45.42 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 6:21:42 | 47.24 | 45.74 | 971 | 1.14 | 0.29 | 53.1 |
| 5/2/2015 6:21:43 | 47.57 | 46.07 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 6:21:43 | 47.90 | 46.40 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 6:21:43 | 48.23 | 46.73 | 979 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 6:21:44 | 48.56 | 47.06 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:44 | 48.88 | 47.38 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:44 | 49.21 | 47.71 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 6:21:45 | 49.54 | 48.04 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 6:21:45 | 49.87 | 48.37 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 6:21:46 | 50.20 | 48.70 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 6:21:46 | 50.53 | 49.03 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 6:21:46 | 50.85 | 49.35 | 940 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 6:21:47 | 51.18 | 49.68 | 940 | 1.14 | 0.29 | 51.4 |
| 5/2/2015 6:21:47 | 51.51 | 50.01 | 940 | 1.14 | 0.29 | 51.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 6:21:47 | 51.84 | 50.34 | 933 | 1.14 | 0.29 | 51.0 |
| 5/2/2015 | 6:21:48 | 52.17 | 50.67 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 6:21:48 | 52.49 | 50.99 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 6:21:49 | 52.82 | 51.32 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 6:21:49 | 53.15 | 51.65 | 891 | 1.14 | 0.29 | 48.7 |
| 5/2/2015 | 6:21:49 | 53.48 | 51.98 | 887 | 1.14 | 0.29 | 48.5 |
| 5/2/2015 | 6:21:50 | 53.81 | 52.31 | 889 | 1.14 | 0.29 | 48.6 |
| 5/2/2015 | 6:21:50 | 54.13 | 52.63 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 | 6:21:51 | 54.46 | 52.96 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 | 6:21:51 | 54.79 | 53.29 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 | 6:21:51 | 55.12 | 53.62 | 847 | 1.14 | 0.29 | 46.3 |
| 5/2/2015 | 6:21:52 | 55.45 | 53.95 | 846 | 1.14 | 0.29 | 46.3 |
| 5/2/2015 | 6:21:52 | 55.77 | 54.27 | 815 | 1.14 | 0.29 | 44.6 |
| 5/2/2015 | 6:21:53 | 56.10 | 54.60 | 809 | 1.14 | 0.29 | 44.2 |
| 5/2/2015 | 6:21:54 | 56.43 | 54.93 | 810 | 1.14 | 0.29 | 44.3 |
| 5/2/2015 | 6:21:54 | 56.76 | 55.26 | 810 | 1.14 | 0.29 | 44.3 |
| 5/2/2015 | 6:21:54 | 57.09 | 55.59 | 800 | 1.14 | 0.29 | 43.8 |
| 5/2/2015 | 6:21:55 | 57.17 | 55.67 | 782 | 1.14 | 0.29 | 42.8 |

## M96 - Summary

**Pattern Number:**
AreaM_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 6:20:14

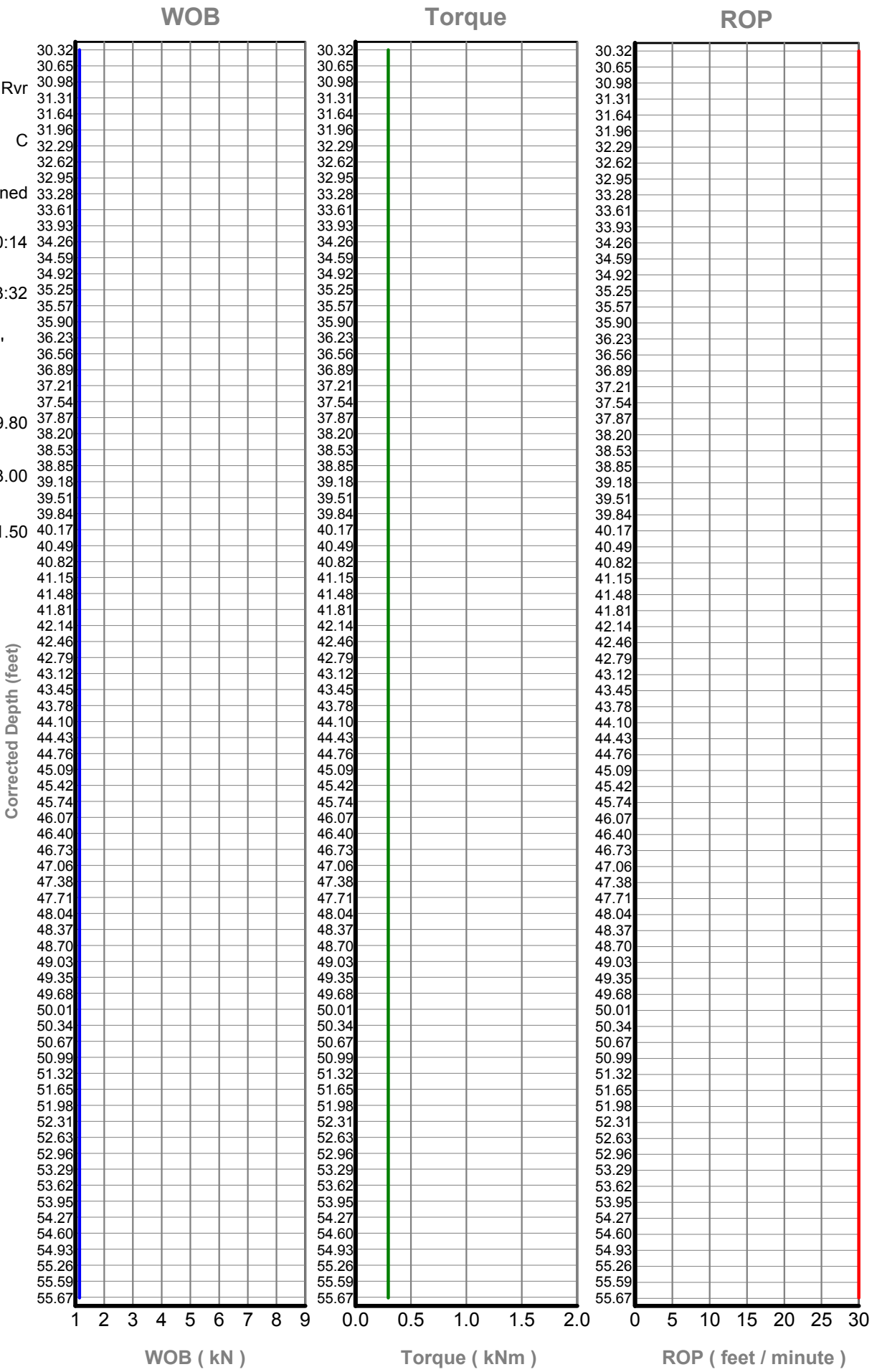
**End Date:**
5/2/2015 6:23:32

**Operator Note:**
'1.5 1.6 c Auto Complete'

**Northing:**
358,619.80

**Easting:**
240,343.00

**Tide (feet):**
1.50



## Hole: M97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:53:24 | 36.09 | 30.09 | 1,038 | 1.63 | 0.25 | 56.8 |
| 5/2/2015 1:53:24 | 36.42 | 30.42 | 1,035 | 1.64 | 0.25 | 56.6 |
| 5/2/2015 1:53:25 | 36.75 | 30.75 | 1,047 | 1.64 | 0.25 | 57.3 |
| 5/2/2015 1:53:25 | 37.07 | 31.07 | 1,047 | 1.64 | 0.25 | 57.3 |
| 5/2/2015 1:53:25 | 37.40 | 31.40 | 1,038 | 1.64 | 0.25 | 56.8 |
| 5/2/2015 1:53:26 | 37.73 | 31.73 | 1,041 | 1.62 | 0.25 | 56.9 |
| 5/2/2015 1:53:26 | 38.06 | 32.06 | 1,041 | 1.62 | 0.25 | 56.9 |
| 5/2/2015 1:53:26 | 38.39 | 32.39 | 1,034 | 1.62 | 0.25 | 56.6 |
| 5/2/2015 1:53:27 | 38.71 | 32.71 | 1,034 | 1.62 | 0.25 | 56.6 |
| 5/2/2015 1:53:27 | 39.04 | 33.04 | 1,047 | 1.65 | 0.25 | 57.2 |
| 5/2/2015 1:53:27 | 39.37 | 33.37 | 1,041 | 1.63 | 0.25 | 56.9 |
| 5/2/2015 1:53:28 | 39.70 | 33.70 | 1,041 | 1.63 | 0.25 | 56.9 |
| 5/2/2015 1:53:28 | 40.03 | 34.03 | 1,041 | 1.64 | 0.25 | 56.9 |
| 5/2/2015 1:53:29 | 40.35 | 34.35 | 1,038 | 1.64 | 0.25 | 56.8 |
| 5/2/2015 1:53:29 | 40.68 | 34.68 | 1,038 | 1.64 | 0.25 | 56.8 |
| 5/2/2015 1:53:29 | 41.01 | 35.01 | 1,047 | 1.62 | 0.25 | 57.3 |
| 5/2/2015 1:53:30 | 41.34 | 35.34 | 807 | 1.22 | 0.27 | 44.1 |
| 5/2/2015 1:53:31 | 41.67 | 35.67 | 727 | 1.22 | 0.26 | 39.8 |
| 5/2/2015 1:53:31 | 41.99 | 35.99 | 653 | 1.22 | 0.26 | 35.7 |
| 5/2/2015 1:53:32 | 42.32 | 36.32 | 566 | 1.22 | 0.26 | 31.0 |
| 5/2/2015 1:53:32 | 42.65 | 36.65 | 534 | 1.23 | 0.27 | 29.2 |
| 5/2/2015 1:53:33 | 42.98 | 36.98 | 641 | 1.23 | 0.26 | 35.1 |
| 5/2/2015 1:53:33 | 43.31 | 37.31 | 651 | 1.24 | 0.26 | 35.6 |
| 5/2/2015 1:53:34 | 43.64 | 37.64 | 652 | 1.23 | 0.27 | 35.7 |
| 5/2/2015 1:53:35 | 43.96 | 37.96 | 653 | 1.23 | 0.27 | 35.7 |
| 5/2/2015 1:53:35 | 44.29 | 38.29 | 648 | 1.24 | 0.27 | 35.4 |
| 5/2/2015 1:53:36 | 44.62 | 38.62 | 638 | 1.22 | 0.26 | 34.9 |
| 5/2/2015 1:53:36 | 44.95 | 38.95 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 1:53:37 | 45.28 | 39.28 | 635 | 1.24 | 0.28 | 34.7 |
| 5/2/2015 1:53:37 | 45.60 | 39.60 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 1:53:38 | 45.93 | 39.93 | 639 | 1.24 | 0.27 | 34.9 |
| 5/2/2015 1:53:39 | 46.26 | 40.26 | 643 | 1.24 | 0.26 | 35.2 |
| 5/2/2015 1:53:39 | 46.59 | 40.59 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 1:53:40 | 46.92 | 40.92 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 1:53:40 | 47.24 | 41.24 | 642 | 1.24 | 0.26 | 35.1 |
| 5/2/2015 1:53:41 | 47.57 | 41.57 | 642 | 1.23 | 0.26 | 35.1 |
| 5/2/2015 1:53:41 | 47.90 | 41.90 | 638 | 1.22 | 0.26 | 34.9 |
| 5/2/2015 1:53:42 | 48.23 | 42.23 | 642 | 1.23 | 0.27 | 35.1 |
| 5/2/2015 1:53:43 | 48.56 | 42.56 | 639 | 1.23 | 0.26 | 34.9 |
| 5/2/2015 1:53:43 | 48.88 | 42.88 | 639 | 1.23 | 0.26 | 34.9 |
| 5/2/2015 1:53:44 | 49.21 | 43.21 | 642 | 1.24 | 0.26 | 35.1 |
| 5/2/2015 1:53:44 | 49.54 | 43.54 | 642 | 1.24 | 0.27 | 35.1 |
| 5/2/2015 1:53:45 | 49.87 | 43.87 | 636 | 1.23 | 0.27 | 34.8 |
| 5/2/2015 1:53:45 | 50.20 | 44.20 | 625 | 1.24 | 0.26 | 34.2 |
| 5/2/2015 1:53:46 | 50.53 | 44.53 | 636 | 1.24 | 0.27 | 34.8 |
| 5/2/2015 1:53:46 | 50.85 | 44.85 | 634 | 1.24 | 0.26 | 34.7 |
| 5/2/2015 1:53:47 | 51.18 | 45.18 | 634 | 1.12 | 0.21 | 34.7 |
| 5/2/2015 1:53:47 | 51.51 | 45.51 | 640 | 1.17 | 0.21 | 35.0 |
| 5/2/2015 1:53:48 | 51.84 | 45.84 | 655 | 1.13 | 0.20 | 35.8 |
| 5/2/2015 1:53:49 | 52.17 | 46.17 | 657 | 1.11 | 0.20 | 35.9 |
| 5/2/2015 1:53:49 | 52.49 | 46.49 | 662 | 1.11 | 0.20 | 36.2 |
| 5/2/2015 1:53:50 | 52.82 | 46.82 | 667 | 1.11 | 0.20 | 36.5 |
| 5/2/2015 1:53:50 | 53.15 | 47.15 | 674 | 1.12 | 0.20 | 36.8 |
| 5/2/2015 1:53:51 | 53.48 | 47.48 | 668 | 1.13 | 0.22 | 36.5 |
| 5/2/2015 1:53:51 | 53.81 | 47.81 | 662 | 1.12 | 0.20 | 36.2 |
| 5/2/2015 1:53:52 | 54.13 | 48.13 | 654 | 1.09 | 0.20 | 35.8 |
| 5/2/2015 1:53:53 | 54.46 | 48.46 | 645 | 1.11 | 0.20 | 35.2 |
| 5/2/2015 1:53:53 | 54.79 | 48.79 | 643 | 1.13 | 0.20 | 35.1 |
| 5/2/2015 1:53:54 | 55.12 | 49.12 | 630 | 1.14 | 0.20 | 34.5 |
| 5/2/2015 1:53:54 | 55.45 | 49.45 | 622 | 1.13 | 0.20 | 34.0 |
| 5/2/2015 1:53:55 | 55.77 | 49.77 | 616 | 1.01 | 0.20 | 33.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:54:06 | 56.10 | 50.10 | 17 | 2.10 | 1.04 | 0.9 |
| 5/2/2015 | 1:54:06 | 56.43 | 50.43 | 130 | 1.26 | 1.70 | 7.1 |
| 5/2/2015 | 1:54:07 | 56.76 | 50.76 | 211 | 1.11 | 1.40 | 11.5 |
| 5/2/2015 | 1:54:08 | 57.09 | 51.09 | 355 | 1.09 | 1.37 | 19.4 |
| 5/2/2015 | 1:54:10 | 57.41 | 51.41 | 434 | 1.02 | 1.25 | 23.7 |
| 5/2/2015 | 1:54:10 | 57.74 | 51.74 | 389 | 1.13 | 1.18 | 21.3 |
| 5/2/2015 | 1:54:11 | 58.07 | 52.07 | 391 | 1.15 | 0.97 | 21.4 |
| 5/2/2015 | 1:54:12 | 58.40 | 52.40 | 394 | 1.05 | 0.83 | 21.5 |
| 5/2/2015 | 1:54:13 | 58.73 | 52.73 | 406 | 1.13 | 1.20 | 22.2 |
| 5/2/2015 | 1:54:14 | 59.06 | 53.06 | 371 | 1.13 | 1.18 | 20.3 |
| 5/2/2015 | 1:54:15 | 59.38 | 53.38 | 321 | 1.00 | 1.48 | 17.6 |
| 5/2/2015 | 1:54:16 | 59.71 | 53.71 | 305 | 1.13 | 1.15 | 16.7 |
| 5/2/2015 | 1:54:17 | 60.04 | 54.04 | 311 | 1.10 | 1.05 | 17.0 |
| 5/2/2015 | 1:54:18 | 60.37 | 54.37 | 326 | 1.09 | 1.29 | 17.8 |
| 5/2/2015 | 1:54:20 | 60.70 | 54.70 | 306 | 1.08 | 1.07 | 16.8 |
| 5/2/2015 | 1:54:21 | 61.02 | 55.02 | 299 | 1.19 | 1.37 | 16.3 |
| 5/2/2015 | 1:54:22 | 61.19 | 55.19 | 287 | 1.20 | 1.13 | 15.7 |

## M97 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:50:50

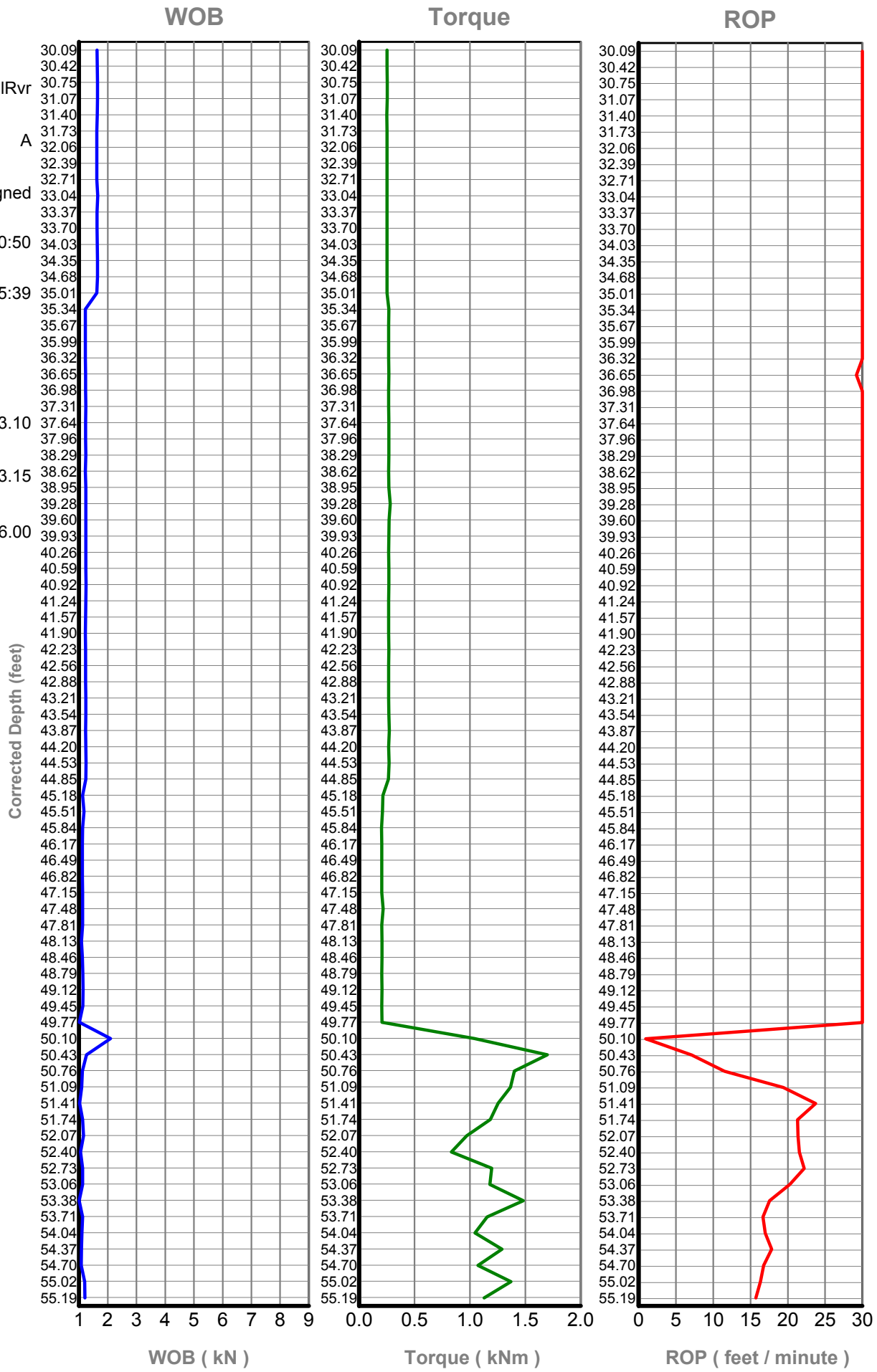
**End Date:**
5/2/2015 1:55:39

**Operator Note:**
'6 6.1 a Auto Complete'

**Northing:**
358,673.10

**Easting:**
240,393.15

**Tide (feet):**
6.00



## Hole: M98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:53:57 | 36.09 | 30.29 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/2/2015 1:53:58 | 36.42 | 30.62 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/2/2015 1:53:58 | 36.75 | 30.95 | 1,073 | 0.35 | 0.39 | 58.7 |
| 5/2/2015 1:53:58 | 37.07 | 31.27 | 1,060 | 0.35 | 0.38 | 58.0 |
| 5/2/2015 1:53:59 | 37.40 | 31.60 | 1,060 | 0.35 | 0.38 | 58.0 |
| 5/2/2015 1:53:59 | 37.73 | 31.93 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:53:59 | 38.06 | 32.26 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:53:59 | 38.39 | 32.59 | 1,057 | 0.36 | 0.38 | 57.8 |
| 5/2/2015 1:54:00 | 38.71 | 32.91 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:00 | 39.04 | 33.24 | 1,067 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:00 | 39.37 | 33.57 | 1,070 | 0.35 | 0.38 | 58.5 |
| 5/2/2015 1:54:01 | 39.70 | 33.90 | 1,082 | 0.35 | 0.38 | 59.2 |
| 5/2/2015 1:54:01 | 40.03 | 34.23 | 1,082 | 0.35 | 0.38 | 59.2 |
| 5/2/2015 1:54:01 | 40.35 | 34.55 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/2/2015 1:54:02 | 40.68 | 34.88 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/2/2015 1:54:02 | 41.01 | 35.21 | 1,088 | 0.35 | 0.38 | 59.5 |
| 5/2/2015 1:54:02 | 41.34 | 35.54 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/2/2015 1:54:03 | 41.67 | 35.87 | 1,078 | 0.35 | 0.38 | 59.0 |
| 5/2/2015 1:54:03 | 41.99 | 36.19 | 1,078 | 0.36 | 0.38 | 59.0 |
| 5/2/2015 1:54:03 | 42.32 | 36.52 | 1,054 | 0.35 | 0.38 | 57.7 |
| 5/2/2015 1:54:04 | 42.65 | 36.85 | 1,054 | 0.35 | 0.38 | 57.7 |
| 5/2/2015 1:54:04 | 42.98 | 37.18 | 1,054 | 0.35 | 0.38 | 57.7 |
| 5/2/2015 1:54:04 | 43.31 | 37.51 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:05 | 43.64 | 37.84 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:05 | 43.96 | 38.16 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:06 | 44.29 | 38.49 | 1,069 | 0.35 | 0.38 | 58.5 |
| 5/2/2015 1:54:06 | 44.62 | 38.82 | 1,069 | 0.35 | 0.38 | 58.5 |
| 5/2/2015 1:54:06 | 44.95 | 39.15 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:07 | 45.28 | 39.48 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/2/2015 1:54:07 | 45.60 | 39.80 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/2/2015 1:54:07 | 45.93 | 40.13 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:08 | 46.26 | 40.46 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:08 | 46.59 | 40.79 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:08 | 46.92 | 41.12 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:09 | 47.24 | 41.44 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:09 | 47.57 | 41.77 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:09 | 47.90 | 42.10 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/2/2015 1:54:10 | 48.23 | 42.43 | 1,063 | 0.35 | 0.38 | 58.1 |
| 5/2/2015 1:54:10 | 48.56 | 42.76 | 1,073 | 0.35 | 0.38 | 58.7 |
| 5/2/2015 1:54:10 | 48.88 | 43.08 | 1,073 | 0.35 | 0.38 | 58.7 |
| 5/2/2015 1:54:10 | 49.21 | 43.41 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:11 | 49.54 | 43.74 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:11 | 49.87 | 44.07 | 1,076 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:11 | 50.20 | 44.40 | 1,079 | 0.35 | 0.38 | 59.0 |
| 5/2/2015 1:54:12 | 50.53 | 44.73 | 1,088 | 0.35 | 0.39 | 59.5 |
| 5/2/2015 1:54:12 | 50.85 | 45.05 | 1,088 | 0.35 | 0.39 | 59.5 |
| 5/2/2015 1:54:12 | 51.18 | 45.38 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:13 | 51.51 | 45.71 | 1,066 | 0.36 | 0.38 | 58.3 |
| 5/2/2015 1:54:13 | 51.84 | 46.04 | 1,066 | 0.36 | 0.38 | 58.3 |
| 5/2/2015 1:54:13 | 52.17 | 46.37 | 1,078 | 0.37 | 0.38 | 59.0 |
| 5/2/2015 1:54:14 | 52.49 | 46.69 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:14 | 52.82 | 47.02 | 1,075 | 0.35 | 0.38 | 58.8 |
| 5/2/2015 1:54:14 | 53.15 | 47.35 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:15 | 53.48 | 47.68 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:15 | 53.81 | 48.01 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:16 | 54.13 | 48.33 | 1,078 | 0.35 | 0.39 | 59.0 |
| 5/2/2015 1:54:16 | 54.46 | 48.66 | 1,078 | 0.35 | 0.39 | 59.0 |
| 5/2/2015 1:54:16 | 54.79 | 48.99 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:17 | 55.12 | 49.32 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:17 | 55.45 | 49.65 | 1,072 | 0.35 | 0.38 | 58.6 |
| 5/2/2015 1:54:17 | 55.77 | 49.97 | 1,066 | 0.35 | 0.39 | 58.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:54:18 | 56.10 | 50.30 | 1,064 | 0.34 | 0.40 | 58.2 |
| 5/2/2015 | 1:54:18 | 56.43 | 50.63 | 1,064 | 0.34 | 0.40 | 58.2 |
| 5/2/2015 | 1:54:18 | 56.76 | 50.96 | 1,026 | 0.33 | 0.43 | 56.1 |
| 5/2/2015 | 1:54:33 | 57.09 | 51.29 | 72 | 3.55 | 0.47 | 4.0 |
| 5/2/2015 | 1:54:38 | 57.41 | 51.61 | 66 | 3.63 | 0.46 | 3.6 |
| 5/2/2015 | 1:54:45 | 57.74 | 51.94 | 37 | 3.33 | 0.47 | 2.1 |
| 5/2/2015 | 1:54:54 | 58.07 | 52.27 | 41 | 3.27 | 0.47 | 2.2 |
| 5/2/2015 | 1:55:01 | 58.33 | 52.53 | 35 | 3.41 | 0.47 | 1.9 |

## M98 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:52:20

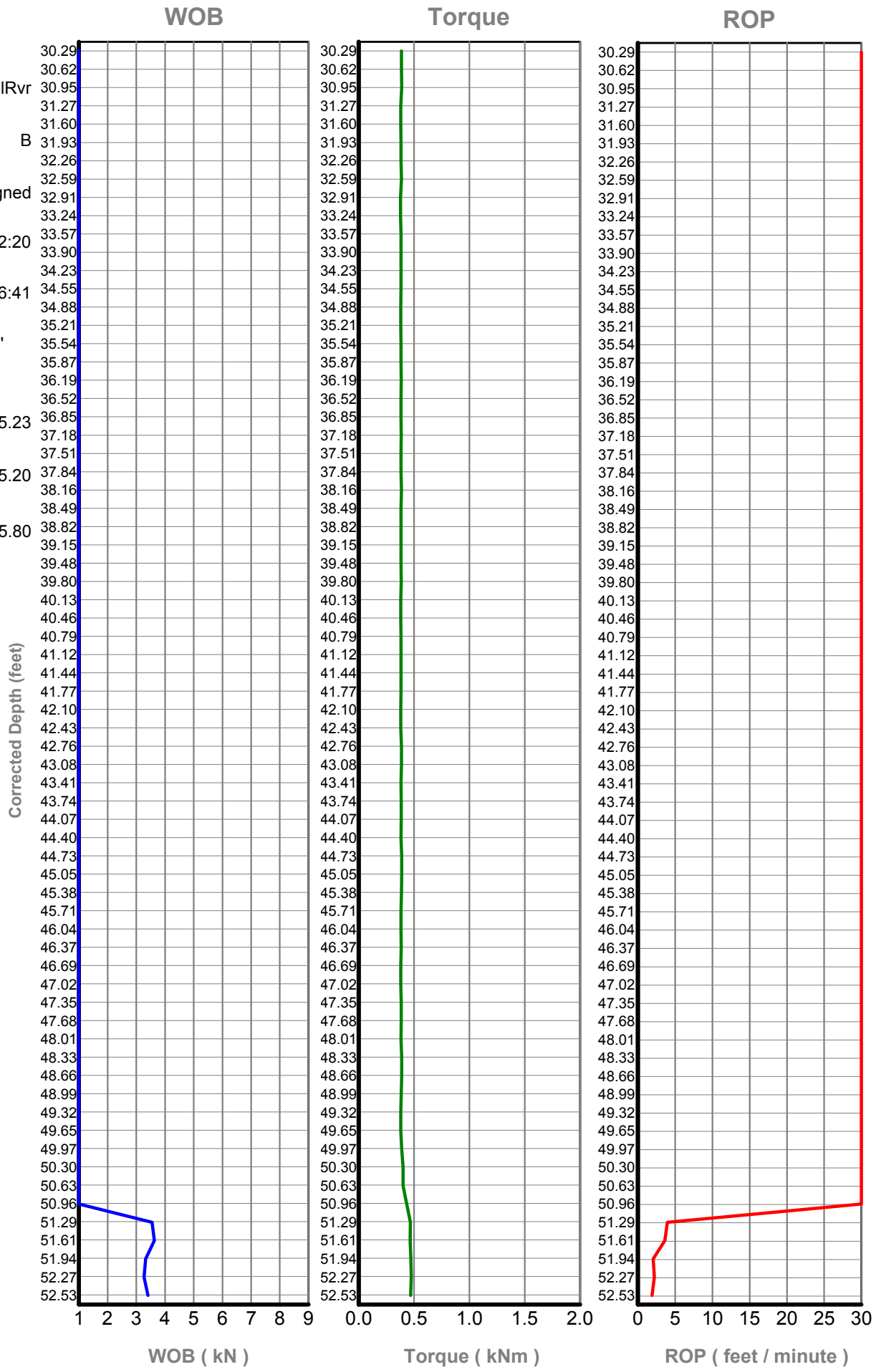
**End Date:**
5/2/2015 1:56:41

**Operator Note:**
'5.8 6.1b Auto Complete'

**Northing:**
358,715.23

**Easting:**
240,455.20

**Tide (feet):**
5.80



## Hole: M99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 1:52:01 | 36.09 | 30.09 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:01 | 36.42 | 30.42 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:01 | 36.75 | 30.75 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 1:52:02 | 37.07 | 31.07 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 1:52:02 | 37.40 | 31.40 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 1:52:02 | 37.73 | 31.73 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 1:52:03 | 38.06 | 32.06 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:52:04 | 38.39 | 32.39 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 1:52:04 | 38.71 | 32.71 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:04 | 39.04 | 33.04 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:05 | 39.37 | 33.37 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:05 | 39.70 | 33.70 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:05 | 40.03 | 34.03 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:06 | 40.35 | 34.35 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 1:52:06 | 40.68 | 34.68 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 1:52:06 | 41.01 | 35.01 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:07 | 41.34 | 35.34 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:07 | 41.67 | 35.67 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:07 | 41.99 | 35.99 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:52:08 | 42.32 | 36.32 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:08 | 42.65 | 36.65 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:08 | 42.98 | 36.98 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:09 | 43.31 | 37.31 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:09 | 43.64 | 37.64 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:09 | 43.96 | 37.96 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:10 | 44.29 | 38.29 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:10 | 44.62 | 38.62 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 1:52:11 | 44.95 | 38.95 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 1:52:11 | 45.28 | 39.28 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 1:52:11 | 45.60 | 39.60 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:12 | 45.93 | 39.93 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:12 | 46.26 | 40.26 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:12 | 46.59 | 40.59 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 1:52:13 | 46.92 | 40.92 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 1:52:13 | 47.24 | 41.24 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 1:52:13 | 47.57 | 41.57 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:52:14 | 47.90 | 41.90 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 1:52:14 | 48.23 | 42.23 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 1:52:15 | 48.56 | 42.56 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 1:52:15 | 48.88 | 42.88 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 1:52:15 | 49.21 | 43.21 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 1:52:16 | 49.54 | 43.54 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:16 | 49.87 | 43.87 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:17 | 50.20 | 44.20 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:17 | 50.53 | 44.53 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 1:52:17 | 50.85 | 44.85 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 1:52:18 | 51.18 | 45.18 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 1:52:18 | 51.51 | 45.51 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 1:52:18 | 51.84 | 45.84 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:19 | 52.17 | 46.17 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:19 | 52.49 | 46.49 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:19 | 52.82 | 46.82 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:20 | 53.15 | 47.15 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:20 | 53.48 | 47.48 | 990 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 1:52:20 | 53.81 | 47.81 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 1:52:21 | 54.13 | 48.13 | 981 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 1:52:21 | 54.46 | 48.46 | 981 | 1.14 | 0.29 | 53.6 |
| 5/2/2015 1:52:21 | 54.79 | 48.79 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 1:52:22 | 55.12 | 49.12 | 976 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 1:52:22 | 55.45 | 49.45 | 935 | 1.14 | 0.29 | 51.1 |
| 5/2/2015 1:52:23 | 55.77 | 49.77 | 935 | 1.14 | 0.29 | 51.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 1:52:23 | 56.10 | 50.10 | 911 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 1:52:23 | 56.43 | 50.43 | 911 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 1:52:34 | 56.76 | 50.76 | 4 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 | 1:52:45 | 57.09 | 51.09 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 | 1:52:57 | 57.41 | 51.41 | 27 | 1.14 | 0.29 | 1.5 |
| 5/2/2015 | 1:53:10 | 57.74 | 51.74 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 | 1:53:11 | 57.81 | 51.81 | 32 | 1.14 | 0.29 | 1.7 |

## M99 - Summary

**Pattern Number:**
AreaM_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 1:50:47

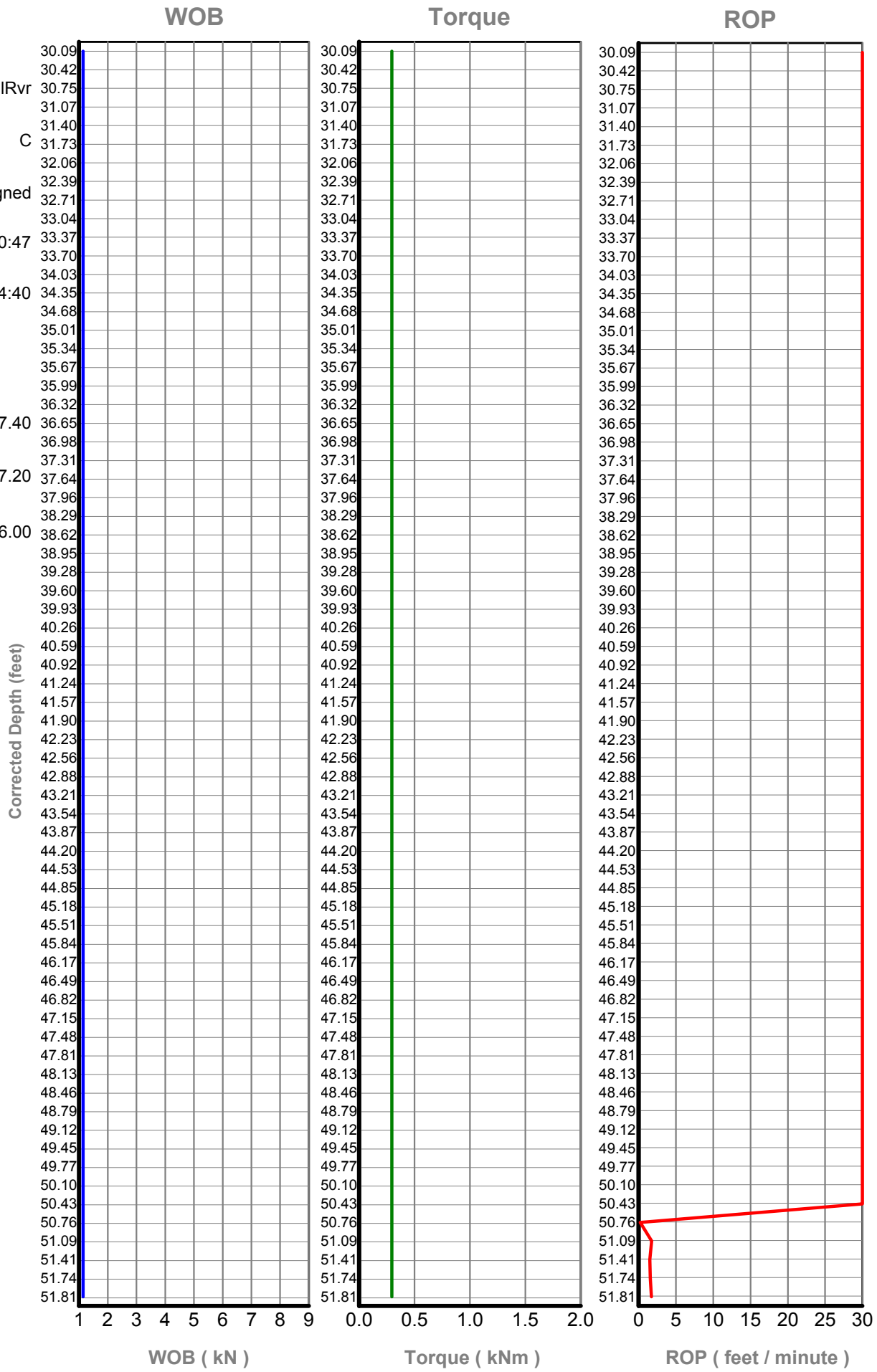
**End Date:**
5/2/2015 1:54:40

**Operator Note:**
'6 6.1 c Auto Complete'

**Northing:**
358,757.40

**Easting:**
240,517.20

**Tide (feet):**
6.00



## Hole: N1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 12:02:53 | 36.42 | 30.22 | 858 | 1.23 | 0.17 | 46.9 |
| 5/1/2015 12:02:54 | 36.75 | 30.55 | 845 | 1.24 | 0.17 | 46.2 |
| 5/1/2015 12:02:54 | 37.07 | 30.87 | 845 | 1.22 | 0.17 | 46.2 |
| 5/1/2015 12:02:55 | 37.40 | 31.20 | 845 | 1.22 | 0.17 | 46.2 |
| 5/1/2015 12:02:55 | 37.73 | 31.53 | 877 | 1.23 | 0.17 | 48.0 |
| 5/1/2015 12:02:55 | 38.06 | 31.86 | 877 | 1.23 | 0.17 | 48.0 |
| 5/1/2015 12:02:56 | 38.39 | 32.19 | 892 | 1.24 | 0.17 | 48.8 |
| 5/1/2015 12:02:56 | 38.71 | 32.51 | 884 | 1.24 | 0.17 | 48.3 |
| 5/1/2015 12:02:57 | 39.04 | 32.84 | 884 | 1.24 | 0.17 | 48.3 |
| 5/1/2015 12:02:57 | 39.37 | 33.17 | 888 | 1.25 | 0.17 | 48.5 |
| 5/1/2015 12:02:58 | 39.70 | 33.50 | 895 | 1.24 | 0.17 | 48.9 |
| 5/1/2015 12:02:58 | 40.03 | 33.83 | 863 | 1.26 | 0.17 | 47.2 |
| 5/1/2015 12:02:59 | 40.35 | 34.15 | 863 | 1.26 | 0.17 | 47.2 |
| 5/1/2015 12:02:59 | 40.68 | 34.48 | 863 | 1.22 | 0.17 | 47.2 |
| 5/1/2015 12:02:59 | 41.01 | 34.81 | 865 | 1.25 | 0.17 | 47.3 |
| 5/1/2015 12:03:00 | 41.34 | 35.14 | 864 | 1.24 | 0.17 | 47.3 |
| 5/1/2015 12:03:00 | 41.67 | 35.47 | 834 | 1.24 | 0.17 | 45.6 |
| 5/1/2015 12:03:01 | 41.99 | 35.79 | 834 | 1.24 | 0.17 | 45.6 |
| 5/1/2015 12:03:01 | 42.32 | 36.12 | 839 | 1.23 | 0.17 | 45.9 |
| 5/1/2015 12:03:01 | 42.65 | 36.45 | 871 | 1.24 | 0.17 | 47.6 |
| 5/1/2015 12:03:02 | 42.98 | 36.78 | 848 | 1.24 | 0.17 | 46.4 |
| 5/1/2015 12:03:02 | 43.31 | 37.11 | 848 | 1.24 | 0.17 | 46.4 |
| 5/1/2015 12:03:03 | 43.64 | 37.44 | 848 | 1.24 | 0.17 | 46.4 |
| 5/1/2015 12:03:03 | 43.96 | 37.76 | 860 | 1.23 | 0.17 | 47.0 |
| 5/1/2015 12:03:03 | 44.29 | 38.09 | 885 | 1.25 | 0.17 | 48.4 |
| 5/1/2015 12:03:04 | 44.62 | 38.42 | 882 | 1.23 | 0.17 | 48.2 |
| 5/1/2015 12:03:04 | 44.95 | 38.75 | 868 | 1.24 | 0.17 | 47.5 |
| 5/1/2015 12:03:05 | 45.28 | 39.08 | 868 | 1.24 | 0.17 | 47.5 |
| 5/1/2015 12:03:05 | 45.60 | 39.40 | 876 | 1.25 | 0.17 | 47.9 |
| 5/1/2015 12:03:05 | 45.93 | 39.73 | 867 | 1.24 | 0.17 | 47.4 |
| 5/1/2015 12:03:06 | 46.26 | 40.06 | 861 | 1.23 | 0.17 | 47.1 |
| 5/1/2015 12:03:06 | 46.59 | 40.39 | 864 | 1.22 | 0.17 | 47.3 |
| 5/1/2015 12:03:07 | 46.92 | 40.72 | 864 | 1.22 | 0.17 | 47.3 |
| 5/1/2015 12:03:07 | 47.24 | 41.04 | 857 | 1.23 | 0.17 | 46.8 |
| 5/1/2015 12:03:07 | 47.57 | 41.37 | 867 | 1.23 | 0.17 | 47.4 |
| 5/1/2015 12:03:08 | 47.90 | 41.70 | 859 | 1.25 | 0.17 | 47.0 |
| 5/1/2015 12:03:09 | 48.23 | 42.03 | 862 | 1.25 | 0.17 | 47.1 |
| 5/1/2015 12:03:09 | 48.56 | 42.36 | 862 | 1.25 | 0.17 | 47.1 |
| 5/1/2015 12:03:09 | 48.88 | 42.68 | 859 | 1.25 | 0.17 | 47.0 |
| 5/1/2015 12:03:10 | 49.21 | 43.01 | 844 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 12:03:10 | 49.54 | 43.34 | 844 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 12:03:11 | 49.87 | 43.67 | 844 | 1.23 | 0.17 | 46.1 |
| 5/1/2015 12:03:11 | 50.20 | 44.00 | 851 | 1.23 | 0.17 | 46.5 |
| 5/1/2015 12:03:11 | 50.53 | 44.33 | 851 | 1.24 | 0.17 | 46.5 |
| 5/1/2015 12:03:12 | 50.85 | 44.65 | 856 | 1.24 | 0.17 | 46.8 |
| 5/1/2015 12:03:12 | 51.18 | 44.98 | 848 | 1.25 | 0.17 | 46.4 |
| 5/1/2015 12:03:13 | 51.51 | 45.31 | 874 | 1.25 | 0.17 | 47.8 |
| 5/1/2015 12:03:13 | 51.84 | 45.64 | 874 | 1.25 | 0.17 | 47.8 |
| 5/1/2015 12:03:13 | 52.17 | 45.97 | 850 | 1.23 | 0.17 | 46.5 |
| 5/1/2015 12:03:14 | 52.49 | 46.29 | 850 | 1.25 | 0.17 | 46.5 |
| 5/1/2015 12:03:14 | 52.82 | 46.62 | 841 | 1.23 | 0.17 | 46.0 |
| 5/1/2015 12:03:15 | 53.15 | 46.95 | 841 | 1.25 | 0.17 | 46.0 |
| 5/1/2015 12:03:15 | 53.48 | 47.28 | 841 | 1.25 | 0.17 | 46.0 |
| 5/1/2015 12:03:15 | 53.81 | 47.61 | 833 | 1.21 | 0.17 | 45.6 |
| 5/1/2015 12:03:16 | 54.13 | 47.93 | 835 | 1.28 | 0.17 | 45.7 |
| 5/1/2015 12:03:16 | 54.46 | 48.26 | 812 | 1.26 | 0.17 | 44.4 |
| 5/1/2015 12:03:17 | 54.79 | 48.59 | 789 | 1.26 | 0.17 | 43.1 |
| 5/1/2015 12:03:17 | 55.12 | 48.92 | 757 | 1.26 | 0.16 | 41.4 |
| 5/1/2015 12:03:32 | 55.45 | 49.25 | 51 | 1.19 | 0.82 | 2.8 |
| 5/1/2015 12:03:32 | 55.77 | 49.57 | 135 | 1.21 | 0.84 | 7.4 |
| 5/1/2015 12:03:34 | 56.10 | 49.90 | 224 | 1.21 | 0.85 | 12.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 12:03:35 | 56.43 | 50.23 | 302 | 1.21 | 0.87 | 16.5 |
| 5/1/2015 | 12:03:41 | 56.76 | 50.56 | 32 | 1.19 | 0.98 | 1.7 |
| 5/1/2015 | 12:03:59 | 57.09 | 50.89 | 20 | 1.19 | 0.94 | 1.1 |
| 5/1/2015 | 12:04:18 | 57.41 | 51.21 | 17 | 1.15 | 0.88 | 0.9 |
| 5/1/2015 | 12:04:36 | 57.74 | 51.54 | 20 | 1.20 | 1.01 | 1.1 |
| 5/1/2015 | 12:04:38 | 57.78 | 51.58 | 20 | 0.83 | 1.17 | 1.1 |

## N1000 - Summary

**Pattern Number:**
AreaN_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 12:01:15

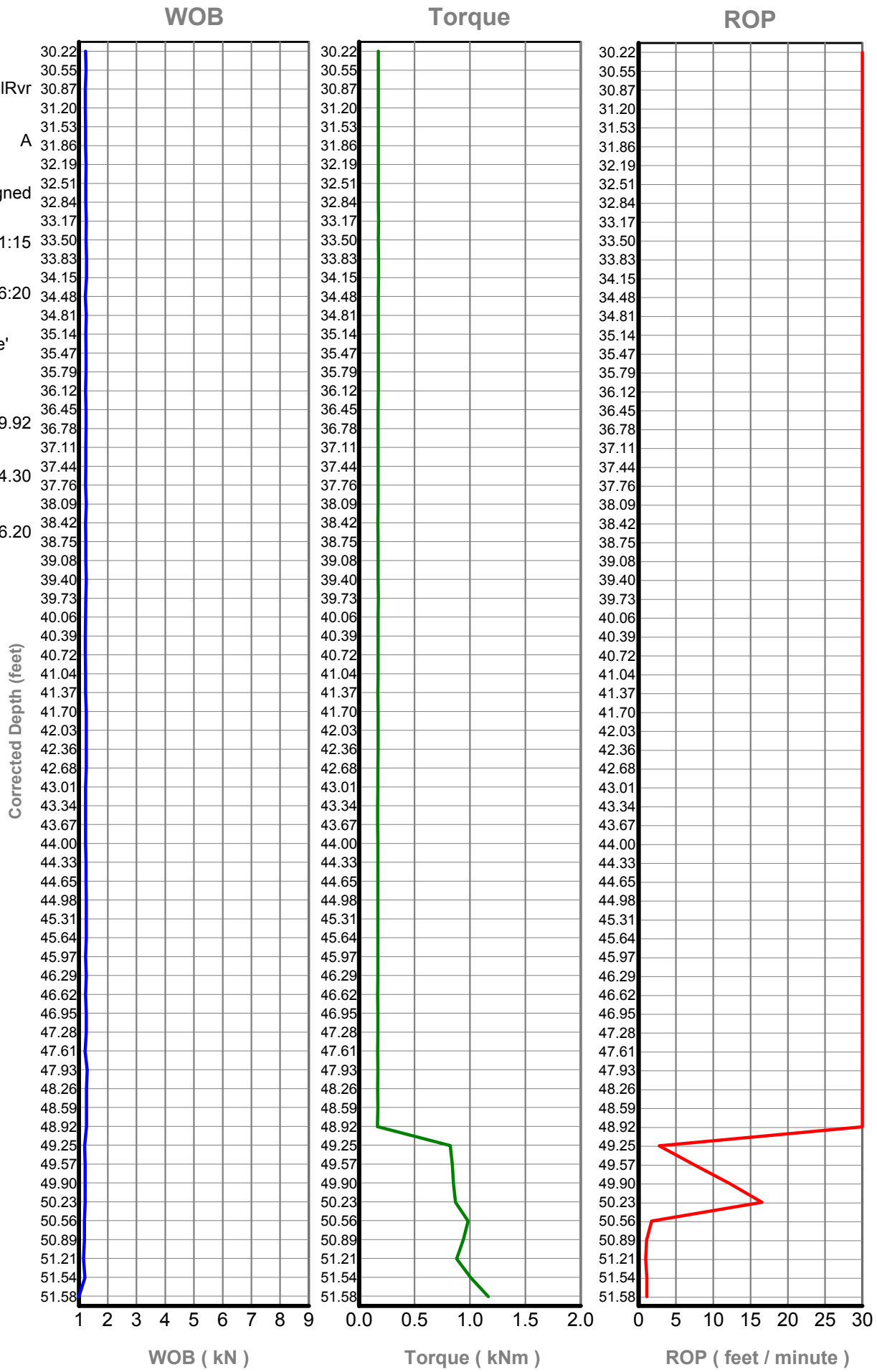
**End Date:**
5/1/2015 12:06:20

**Operator Note:**
'6.2 6.3 a Auto Complete'

**Northing:**
354,449.92

**Easting:**
232,964.30

**Tide (feet):**
6.20



## Hole: N1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 12:01:45 | 36.42 | 30.22 | 1,116 | 0.33 | 0.37 | 61.0 |
| 5/1/2015 12:01:45 | 36.75 | 30.55 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 12:01:46 | 37.07 | 30.87 | 1,116 | 0.33 | 0.38 | 61.0 |
| 5/1/2015 12:01:46 | 37.40 | 31.20 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 12:01:46 | 37.73 | 31.53 | 1,137 | 0.32 | 0.37 | 62.2 |
| 5/1/2015 12:01:46 | 38.06 | 31.86 | 1,119 | 0.35 | 0.37 | 61.2 |
| 5/1/2015 12:01:47 | 38.39 | 32.19 | 1,136 | 0.33 | 0.36 | 62.1 |
| 5/1/2015 12:01:47 | 38.71 | 32.51 | 1,136 | 0.33 | 0.36 | 62.1 |
| 5/1/2015 12:01:47 | 39.04 | 32.84 | 1,128 | 0.33 | 0.36 | 61.7 |
| 5/1/2015 12:01:48 | 39.37 | 33.17 | 1,128 | 0.33 | 0.36 | 61.7 |
| 5/1/2015 12:01:48 | 39.70 | 33.50 | 1,147 | 0.36 | 0.38 | 62.7 |
| 5/1/2015 12:01:48 | 40.03 | 33.83 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/1/2015 12:01:49 | 40.35 | 34.15 | 1,149 | 0.32 | 0.37 | 62.8 |
| 5/1/2015 12:01:49 | 40.68 | 34.48 | 1,140 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 12:01:49 | 41.01 | 34.81 | 1,140 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 12:01:49 | 41.34 | 35.14 | 1,117 | 0.33 | 0.37 | 61.1 |
| 5/1/2015 12:01:50 | 41.67 | 35.47 | 1,117 | 0.33 | 0.37 | 61.1 |
| 5/1/2015 12:01:50 | 41.99 | 35.79 | 1,117 | 0.33 | 0.37 | 61.1 |
| 5/1/2015 12:01:50 | 42.32 | 36.12 | 1,160 | 0.33 | 0.37 | 63.4 |
| 5/1/2015 12:01:51 | 42.65 | 36.45 | 1,160 | 0.33 | 0.37 | 63.4 |
| 5/1/2015 12:01:51 | 42.98 | 36.78 | 1,153 | 0.33 | 0.38 | 63.0 |
| 5/1/2015 12:01:52 | 43.31 | 37.11 | 1,133 | 0.32 | 0.36 | 61.9 |
| 5/1/2015 12:02:01 | 43.64 | 37.44 | 0 | 0.30 | 0.41 | 0.0 |
| 5/1/2015 12:02:01 | 43.96 | 37.76 | 91 | 0.31 | 0.36 | 5.0 |
| 5/1/2015 12:02:02 | 44.29 | 38.09 | 91 | 0.31 | 0.37 | 5.0 |
| 5/1/2015 12:02:03 | 44.62 | 38.42 | 91 | 0.31 | 0.37 | 5.0 |
| 5/1/2015 12:02:03 | 44.95 | 38.75 | 322 | 0.31 | 0.38 | 17.6 |
| 5/1/2015 12:02:03 | 45.28 | 39.08 | 545 | 0.31 | 0.36 | 29.8 |
| 5/1/2015 12:02:04 | 45.60 | 39.40 | 545 | 0.31 | 0.36 | 29.8 |
| 5/1/2015 12:02:04 | 45.93 | 39.73 | 775 | 0.32 | 0.38 | 42.4 |
| 5/1/2015 12:02:04 | 46.26 | 40.06 | 775 | 0.32 | 0.38 | 42.4 |
| 5/1/2015 12:02:04 | 46.59 | 40.39 | 1,002 | 0.32 | 0.37 | 54.8 |
| 5/1/2015 12:02:05 | 46.92 | 40.72 | 1,121 | 0.26 | 0.36 | 61.3 |
| 5/1/2015 12:02:05 | 47.24 | 41.04 | 1,121 | 0.26 | 0.36 | 61.3 |
| 5/1/2015 12:02:05 | 47.57 | 41.37 | 1,130 | 0.27 | 0.37 | 61.8 |
| 5/1/2015 12:02:06 | 47.90 | 41.70 | 1,130 | 0.27 | 0.37 | 61.8 |
| 5/1/2015 12:02:06 | 48.23 | 42.03 | 1,114 | 0.27 | 0.36 | 60.9 |
| 5/1/2015 12:02:06 | 48.56 | 42.36 | 1,122 | 0.26 | 0.36 | 61.3 |
| 5/1/2015 12:02:07 | 48.88 | 42.68 | 1,122 | 0.26 | 0.36 | 61.3 |
| 5/1/2015 12:02:07 | 49.21 | 43.01 | 1,122 | 0.26 | 0.37 | 61.3 |
| 5/1/2015 12:02:07 | 49.54 | 43.34 | 1,122 | 0.26 | 0.37 | 61.3 |
| 5/1/2015 12:02:07 | 49.87 | 43.67 | 1,139 | 0.26 | 0.36 | 62.3 |
| 5/1/2015 12:02:08 | 50.20 | 44.00 | 1,139 | 0.26 | 0.36 | 62.3 |
| 5/1/2015 12:02:08 | 50.53 | 44.33 | 1,156 | 0.26 | 0.36 | 63.2 |
| 5/1/2015 12:02:08 | 50.85 | 44.65 | 1,141 | 0.26 | 0.37 | 62.4 |
| 5/1/2015 12:02:09 | 51.18 | 44.98 | 1,141 | 0.26 | 0.37 | 62.4 |
| 5/1/2015 12:02:09 | 51.51 | 45.31 | 1,175 | 0.26 | 0.37 | 64.3 |
| 5/1/2015 12:02:09 | 51.84 | 45.64 | 1,175 | 0.26 | 0.37 | 64.3 |
| 5/1/2015 12:02:09 | 52.17 | 45.97 | 1,175 | 0.24 | 0.37 | 64.3 |
| 5/1/2015 12:02:10 | 52.49 | 46.29 | 1,167 | 0.26 | 0.38 | 63.8 |
| 5/1/2015 12:02:10 | 52.82 | 46.62 | 1,167 | 0.26 | 0.38 | 63.8 |
| 5/1/2015 12:02:10 | 53.15 | 46.95 | 1,167 | 0.22 | 0.39 | 63.8 |
| 5/1/2015 12:02:11 | 53.48 | 47.28 | 1,142 | 0.26 | 0.37 | 62.5 |
| 5/1/2015 12:02:11 | 53.81 | 47.61 | 1,142 | 0.26 | 0.37 | 62.5 |
| 5/1/2015 12:02:11 | 54.13 | 47.93 | 1,114 | 0.33 | 0.39 | 60.9 |
| 5/1/2015 12:02:12 | 54.46 | 48.26 | 1,090 | 0.28 | 0.38 | 59.6 |
| 5/1/2015 12:02:12 | 54.79 | 48.59 | 1,090 | 0.28 | 0.38 | 59.6 |
| 5/1/2015 12:02:12 | 55.12 | 48.92 | 1,046 | 0.27 | 0.38 | 57.2 |
| 5/1/2015 12:02:13 | 55.45 | 49.25 | 1,007 | 0.26 | 0.39 | 55.1 |
| 5/1/2015 12:02:14 | 55.77 | 49.57 | 1,007 | 0.26 | 0.39 | 55.1 |
| 5/1/2015 12:02:14 | 56.10 | 49.90 | 977 | 0.26 | 0.39 | 53.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 12:02:14 | 56.43 | 50.23 | 945 | 0.26 | 0.38 | 51.7 |
| 5/1/2015 | 12:02:15 | 56.76 | 50.56 | 945 | 0.26 | 0.39 | 51.7 |
| 5/1/2015 | 12:02:15 | 57.09 | 50.89 | 945 | 0.26 | 0.39 | 51.7 |
| 5/1/2015 | 12:02:15 | 57.41 | 51.21 | 929 | 0.26 | 0.39 | 50.8 |
| 5/1/2015 | 12:02:16 | 57.74 | 51.54 | 920 | 0.26 | 0.39 | 50.3 |
| 5/1/2015 | 12:02:18 | 58.07 | 51.87 | 401 | 0.29 | 0.53 | 21.9 |
| 5/1/2015 | 12:02:30 | 58.40 | 52.20 | 0 | 2.15 | 0.40 | 0.0 |
| 5/1/2015 | 12:02:30 | 58.73 | 52.53 | 69 | 2.14 | 0.40 | 3.8 |
| 5/1/2015 | 12:02:31 | 59.06 | 52.86 | 218 | 2.17 | 0.40 | 11.9 |
| 5/1/2015 | 12:02:31 | 59.38 | 53.18 | 218 | 2.17 | 0.40 | 11.9 |
| 5/1/2015 | 12:02:31 | 59.71 | 53.51 | 388 | 2.13 | 0.40 | 21.2 |
| 5/1/2015 | 12:02:32 | 60.04 | 53.84 | 388 | 2.13 | 0.39 | 21.2 |
| 5/1/2015 | 12:02:33 | 60.37 | 54.17 | 562 | 2.15 | 0.40 | 30.7 |
| 5/1/2015 | 12:02:33 | 60.70 | 54.50 | 718 | 2.12 | 0.47 | 39.3 |
| 5/1/2015 | 12:02:34 | 61.02 | 54.82 | 705 | 2.14 | 0.39 | 38.5 |
| 5/1/2015 | 12:02:35 | 61.34 | 55.14 | 731 | 2.12 | 0.46 | 40.0 |

## N1001 - Summary

**Pattern Number:**
AreaN_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
5/1/2015 12:00:42

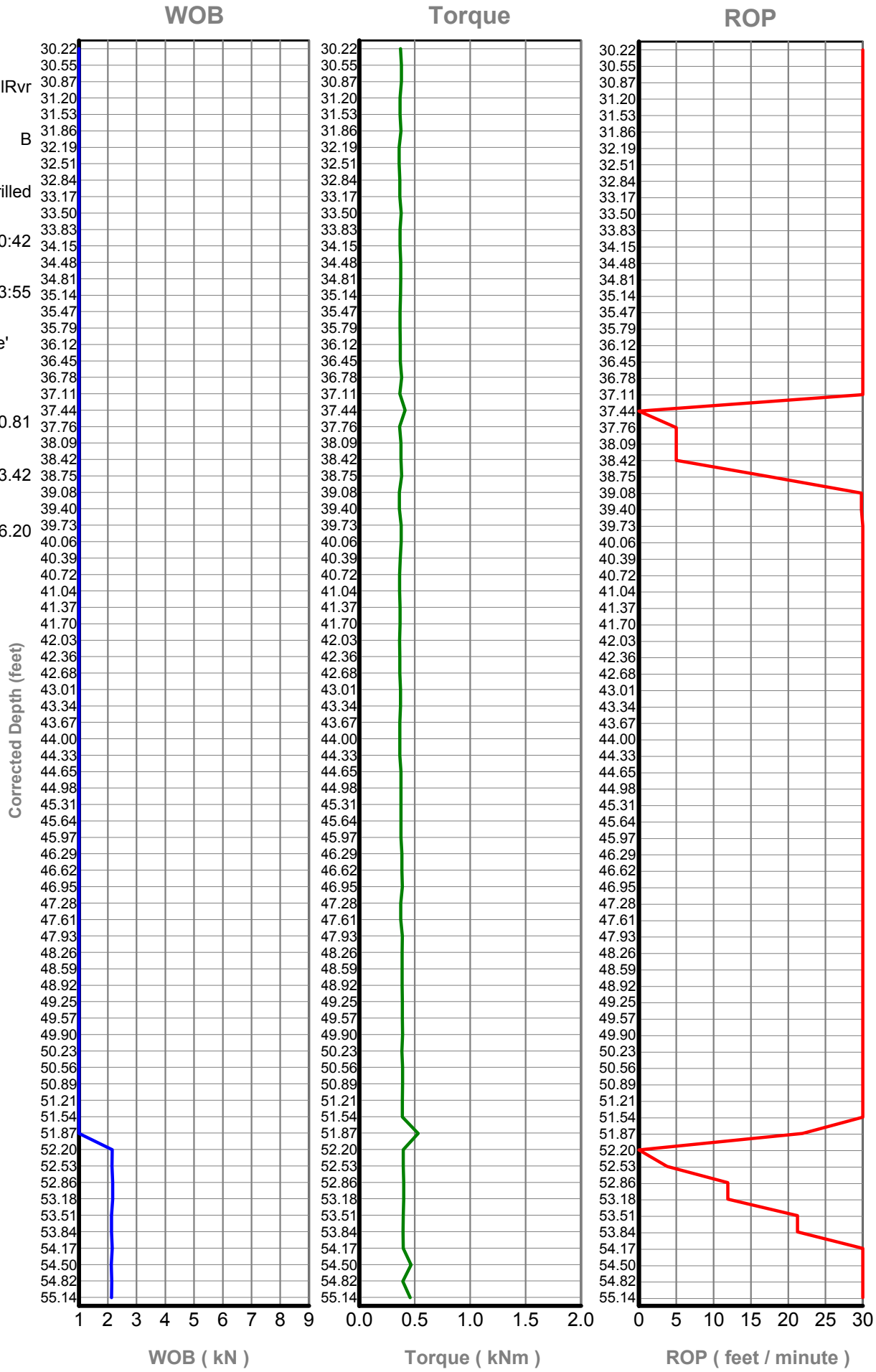
**End Date:**
5/1/2015 12:03:55

**Operator Note:**
'6.2 6.3 b Auto Complete'

**Northing:**
354,380.81

**Easting:**
232,993.42

**Tide (feet):**
6.20



## Hole: N1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 12:01:13 | 36.42 | 30.22 | 983 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 12:01:13 | 36.75 | 30.55 | 964 | 1.14 | 0.29 | 52.7 |
| 5/1/2015 12:01:14 | 37.07 | 30.87 | 964 | 1.14 | 0.29 | 52.7 |
| 5/1/2015 12:01:14 | 37.40 | 31.20 | 964 | 1.14 | 0.29 | 52.7 |
| 5/1/2015 12:01:14 | 37.73 | 31.53 | 974 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 12:01:15 | 38.06 | 31.86 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 12:01:15 | 38.39 | 32.19 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 12:01:15 | 38.71 | 32.51 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 12:01:16 | 39.04 | 32.84 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 12:01:16 | 39.37 | 33.17 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 12:01:16 | 39.70 | 33.50 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 12:01:17 | 40.03 | 33.83 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:17 | 40.35 | 34.15 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:18 | 40.68 | 34.48 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:18 | 41.01 | 34.81 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:18 | 41.34 | 35.14 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:19 | 41.67 | 35.47 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:19 | 41.99 | 35.79 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:19 | 42.32 | 36.12 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:20 | 42.65 | 36.45 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:20 | 42.98 | 36.78 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:20 | 43.31 | 37.11 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:21 | 43.64 | 37.44 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:21 | 43.96 | 37.76 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:21 | 44.29 | 38.09 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:22 | 44.62 | 38.42 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:22 | 44.95 | 38.75 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:22 | 45.28 | 39.08 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:23 | 45.60 | 39.40 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:23 | 45.93 | 39.73 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:23 | 46.26 | 40.06 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:24 | 46.59 | 40.39 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:24 | 46.92 | 40.72 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:24 | 47.24 | 41.04 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 12:01:25 | 47.57 | 41.37 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:26 | 47.90 | 41.70 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 12:01:34 | 48.23 | 42.03 | 65 | 1.14 | 0.29 | 3.5 |
| 5/1/2015 12:01:35 | 48.56 | 42.36 | 184 | 1.14 | 0.29 | 10.0 |
| 5/1/2015 12:01:37 | 48.88 | 42.68 | 288 | 1.14 | 0.29 | 15.7 |
| 5/1/2015 12:01:38 | 49.21 | 43.01 | 291 | 1.14 | 0.29 | 15.9 |
| 5/1/2015 12:01:38 | 49.54 | 43.34 | 370 | 1.14 | 0.29 | 20.2 |
| 5/1/2015 12:01:39 | 49.87 | 43.67 | 496 | 1.14 | 0.29 | 27.1 |
| 5/1/2015 12:01:39 | 50.20 | 44.00 | 496 | 1.14 | 0.29 | 27.1 |
| 5/1/2015 12:01:39 | 50.53 | 44.33 | 637 | 1.14 | 0.29 | 34.8 |
| 5/1/2015 12:01:40 | 50.85 | 44.65 | 770 | 1.14 | 0.29 | 42.1 |
| 5/1/2015 12:01:40 | 51.18 | 44.98 | 907 | 1.14 | 0.29 | 49.6 |
| 5/1/2015 12:01:41 | 51.51 | 45.31 | 907 | 1.14 | 0.29 | 49.6 |
| 5/1/2015 12:01:41 | 51.84 | 45.64 | 960 | 1.14 | 0.29 | 52.5 |
| 5/1/2015 12:01:41 | 52.17 | 45.97 | 957 | 1.14 | 0.29 | 52.3 |
| 5/1/2015 12:01:42 | 52.49 | 46.29 | 932 | 1.14 | 0.29 | 51.0 |
| 5/1/2015 12:01:42 | 52.82 | 46.62 | 932 | 1.14 | 0.29 | 51.0 |
| 5/1/2015 12:01:42 | 53.15 | 46.95 | 923 | 1.14 | 0.29 | 50.5 |
| 5/1/2015 12:01:43 | 53.48 | 47.28 | 914 | 1.14 | 0.29 | 50.0 |
| 5/1/2015 12:01:43 | 53.81 | 47.61 | 894 | 1.14 | 0.29 | 48.9 |
| 5/1/2015 12:01:44 | 54.13 | 47.93 | 894 | 1.14 | 0.29 | 48.9 |
| 5/1/2015 12:01:44 | 54.46 | 48.26 | 896 | 1.14 | 0.29 | 49.0 |
| 5/1/2015 12:01:44 | 54.79 | 48.59 | 898 | 1.14 | 0.29 | 49.1 |
| 5/1/2015 12:01:45 | 55.12 | 48.92 | 881 | 1.14 | 0.29 | 48.2 |
| 5/1/2015 12:01:45 | 55.45 | 49.25 | 861 | 1.14 | 0.29 | 47.1 |
| 5/1/2015 12:01:46 | 55.77 | 49.57 | 852 | 1.14 | 0.29 | 46.6 |
| 5/1/2015 12:01:46 | 56.10 | 49.90 | 852 | 1.14 | 0.29 | 46.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 12:01:46 | 56.43 | 50.23 | 841 | 1.14 | 0.29 | 46.0 |
| 5/1/2015 | 12:01:48 | 56.76 | 50.56 | 330 | 1.14 | 0.29 | 18.0 |
| 5/1/2015 | 12:01:49 | 57.09 | 50.89 | 312 | 1.14 | 0.29 | 17.0 |
| 5/1/2015 | 12:01:50 | 57.41 | 51.21 | 319 | 1.14 | 0.29 | 17.4 |
| 5/1/2015 | 12:01:50 | 57.74 | 51.54 | 489 | 1.14 | 0.29 | 26.8 |
| 5/1/2015 | 12:01:51 | 58.07 | 51.87 | 489 | 1.14 | 0.29 | 26.8 |
| 5/1/2015 | 12:01:51 | 58.40 | 52.20 | 655 | 1.14 | 0.29 | 35.8 |
| 5/1/2015 | 12:01:51 | 58.73 | 52.53 | 826 | 1.14 | 0.29 | 45.2 |
| 5/1/2015 | 12:01:52 | 59.06 | 52.86 | 843 | 1.14 | 0.29 | 46.1 |
| 5/1/2015 | 12:01:52 | 59.38 | 53.18 | 835 | 1.14 | 0.29 | 45.7 |
| 5/1/2015 | 12:01:53 | 59.71 | 53.51 | 826 | 1.14 | 0.29 | 45.1 |
| 5/1/2015 | 12:01:53 | 60.04 | 53.84 | 826 | 1.14 | 0.29 | 45.1 |
| 5/1/2015 | 12:01:53 | 60.37 | 54.17 | 825 | 1.14 | 0.29 | 45.1 |
| 5/1/2015 | 12:01:54 | 60.70 | 54.50 | 817 | 1.14 | 0.29 | 44.7 |
| 5/1/2015 | 12:01:56 | 61.02 | 54.82 | 399 | 1.14 | 0.29 | 21.8 |
| 5/1/2015 | 12:01:57 | 61.28 | 55.08 | 97 | 1.14 | 0.29 | 5.3 |

## N1002 - Summary

**Pattern Number:**
AreaN_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 11:59:45

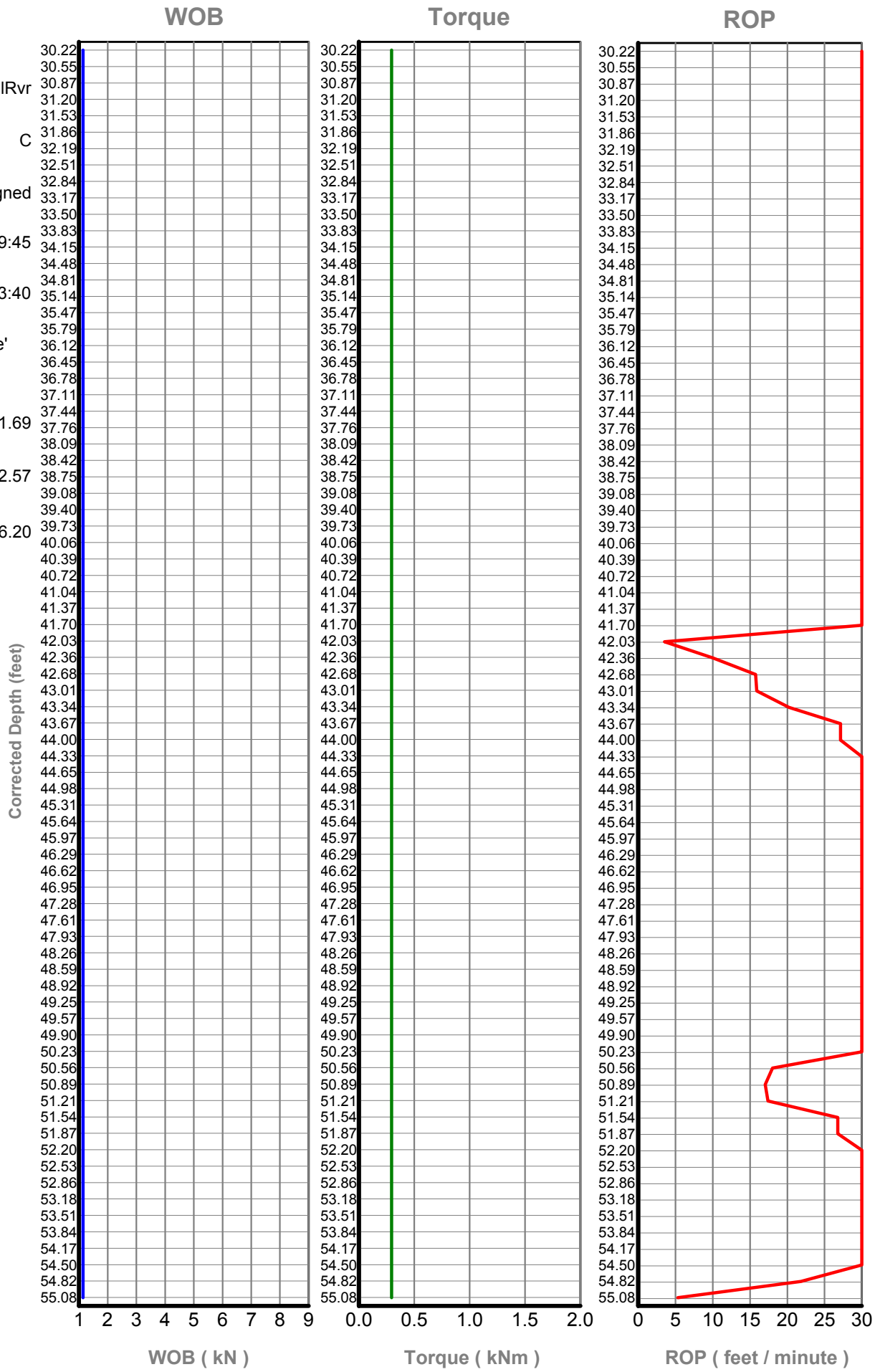
**End Date:**
5/1/2015 12:03:40

**Operator Note:**
'6.2 6.3 c Auto Complete'

**Northing:**
354,311.69

**Easting:**
233,022.57

**Tide (feet):**
6.20



## Hole: N11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 9:50:15 | 35.76 | 30.06 | 907 | 0.41 | 0.40 | 49.6 |
| 5/1/2015 9:50:16 | 36.09 | 30.39 | 909 | 0.42 | 0.40 | 49.7 |
| 5/1/2015 9:50:16 | 36.42 | 30.72 | 901 | 0.42 | 0.40 | 49.2 |
| 5/1/2015 9:50:17 | 36.75 | 31.05 | 901 | 0.42 | 0.40 | 49.2 |
| 5/1/2015 9:50:17 | 37.07 | 31.37 | 884 | 0.41 | 0.40 | 48.3 |
| 5/1/2015 9:50:17 | 37.40 | 31.70 | 890 | 0.42 | 0.40 | 48.7 |
| 5/1/2015 9:50:18 | 37.73 | 32.03 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:19 | 38.06 | 32.36 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:18 | 38.39 | 32.69 | 881 | 0.42 | 0.31 | 48.2 |
| 5/1/2015 9:50:19 | 38.71 | 33.01 | 881 | 0.41 | 0.40 | 48.2 |
| 5/1/2015 9:50:20 | 39.04 | 33.34 | 891 | 0.41 | 0.40 | 48.7 |
| 5/1/2015 9:50:20 | 39.37 | 33.67 | 891 | 0.41 | 0.40 | 48.7 |
| 5/1/2015 9:50:20 | 39.70 | 34.00 | 891 | 0.42 | 0.40 | 48.7 |
| 5/1/2015 9:50:21 | 40.03 | 34.33 | 891 | 0.42 | 0.40 | 48.7 |
| 5/1/2015 9:50:21 | 40.35 | 34.65 | 893 | 0.42 | 0.40 | 48.8 |
| 5/1/2015 9:50:22 | 40.68 | 34.98 | 893 | 0.42 | 0.40 | 48.8 |
| 5/1/2015 9:50:22 | 41.01 | 35.31 | 887 | 0.43 | 0.40 | 48.5 |
| 5/1/2015 9:50:22 | 41.34 | 35.64 | 899 | 0.43 | 0.40 | 49.1 |
| 5/1/2015 9:50:23 | 41.67 | 35.97 | 886 | 0.43 | 0.40 | 48.5 |
| 5/1/2015 9:50:23 | 41.99 | 36.29 | 886 | 0.43 | 0.40 | 48.5 |
| 5/1/2015 9:50:23 | 42.32 | 36.62 | 909 | 0.42 | 0.40 | 49.7 |
| 5/1/2015 9:50:24 | 42.65 | 36.95 | 899 | 0.42 | 0.40 | 49.2 |
| 5/1/2015 9:50:24 | 42.98 | 37.28 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:25 | 43.31 | 37.61 | 899 | 0.43 | 0.40 | 49.2 |
| 5/1/2015 9:50:25 | 43.64 | 37.94 | 899 | 0.43 | 0.40 | 49.2 |
| 5/1/2015 9:50:25 | 43.96 | 38.26 | 899 | 0.41 | 0.40 | 49.2 |
| 5/1/2015 9:50:26 | 44.29 | 38.59 | 899 | 0.43 | 0.40 | 49.2 |
| 5/1/2015 9:50:26 | 44.62 | 38.92 | 896 | 0.44 | 0.40 | 49.0 |
| 5/1/2015 9:50:27 | 44.95 | 39.25 | 896 | 0.44 | 0.40 | 49.0 |
| 5/1/2015 9:50:27 | 45.28 | 39.58 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:27 | 45.60 | 39.90 | 896 | 0.43 | 0.40 | 49.0 |
| 5/1/2015 9:50:28 | 45.93 | 40.23 | 899 | 0.43 | 0.40 | 49.2 |
| 5/1/2015 9:50:28 | 46.26 | 40.56 | 899 | 0.43 | 0.40 | 49.2 |
| 5/1/2015 9:50:28 | 46.59 | 40.89 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:29 | 46.92 | 41.22 | 896 | 0.42 | 0.40 | 49.0 |
| 5/1/2015 9:50:29 | 47.24 | 41.54 | 889 | 0.43 | 0.40 | 48.6 |
| 5/1/2015 9:50:30 | 47.57 | 41.87 | 889 | 0.43 | 0.40 | 48.6 |
| 5/1/2015 9:50:30 | 47.90 | 42.20 | 903 | 0.41 | 0.40 | 49.4 |
| 5/1/2015 9:50:31 | 48.23 | 42.53 | 903 | 0.42 | 0.40 | 49.4 |
| 5/1/2015 9:50:31 | 48.56 | 42.86 | 903 | 0.43 | 0.40 | 49.4 |
| 5/1/2015 9:50:32 | 48.88 | 43.18 | 903 | 0.43 | 0.40 | 49.4 |
| 5/1/2015 9:50:32 | 49.21 | 43.51 | 903 | 0.43 | 0.40 | 49.4 |
| 5/1/2015 9:50:32 | 49.54 | 43.84 | 911 | 0.41 | 0.40 | 49.8 |
| 5/1/2015 9:50:33 | 49.87 | 44.17 | 902 | 0.43 | 0.40 | 49.3 |
| 5/1/2015 9:50:33 | 50.20 | 44.50 | 902 | 0.43 | 0.40 | 49.3 |
| 5/1/2015 9:50:34 | 50.53 | 44.83 | 902 | 0.43 | 0.40 | 49.3 |
| 5/1/2015 9:50:34 | 50.85 | 45.15 | 897 | 0.43 | 0.40 | 49.0 |
| 5/1/2015 9:50:34 | 51.18 | 45.48 | 902 | 0.39 | 0.43 | 49.3 |
| 5/1/2015 9:50:44 | 51.51 | 45.81 | 0 | 5.08 | 0.46 | 0.0 |
| 5/1/2015 9:50:47 | 51.84 | 46.14 | 70 | 4.58 | 0.45 | 3.8 |
| 5/1/2015 9:50:48 | 52.17 | 46.47 | 175 | 5.09 | 0.47 | 9.6 |
| 5/1/2015 9:50:58 | 52.49 | 46.79 | 0 | 4.11 | 0.44 | 0.0 |
| 5/1/2015 9:50:59 | 52.82 | 47.12 | 114 | 3.39 | 0.43 | 6.3 |
| 5/1/2015 9:51:00 | 53.15 | 47.45 | 244 | 3.06 | 0.41 | 13.3 |
| 5/1/2015 9:51:00 | 53.48 | 47.78 | 384 | 3.14 | 0.43 | 21.0 |
| 5/1/2015 9:51:01 | 53.81 | 48.11 | 492 | 4.47 | 0.44 | 26.9 |
| 5/1/2015 9:51:02 | 54.13 | 48.43 | 552 | 4.64 | 0.45 | 30.2 |
| 5/1/2015 9:51:03 | 54.46 | 48.76 | 481 | 3.85 | 0.43 | 26.3 |
| 5/1/2015 9:51:04 | 54.79 | 49.09 | 452 | 3.53 | 0.44 | 24.7 |
| 5/1/2015 9:51:10 | 55.12 | 49.42 | 14 | 3.92 | 0.44 | 0.8 |
| 5/1/2015 9:51:24 | 55.45 | 49.75 | 84 | 3.56 | 0.48 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 9:51:41 | 55.77 | 50.07 | 29 | 3.46 | 0.49 | 1.6 |
| 5/1/2015 | 9:51:53 | 56.10 | 50.40 | 32 | 3.42 | 0.49 | 1.7 |
| 5/1/2015 | 9:52:07 | 56.43 | 50.73 | 23 | 3.10 | 0.48 | 1.3 |
| 5/1/2015 | 9:52:10 | 56.50 | 50.80 | 23 | 3.36 | 0.48 | 1.3 |

## N11 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 9:48:27

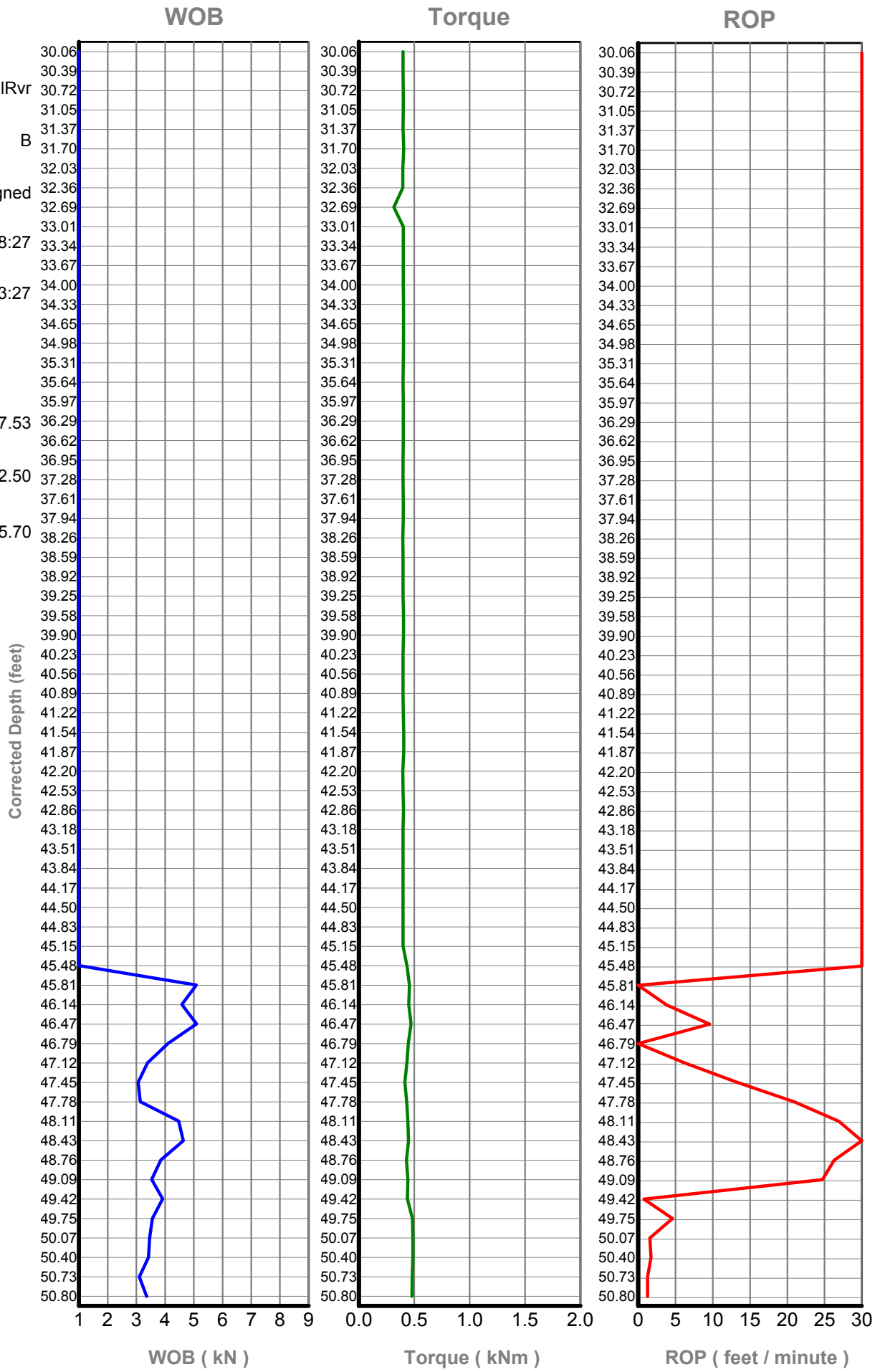
**End Date:**
5/1/2015 9:53:27

**Operator Note:**
'5.7 5.6 b Rock @ 55.5"

**Northing:**
354,597.53

**Easting:**
232,902.50

**Tide (feet):**
5.70



## Hole: N12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:07:22 | 36.09 | 30.19 | 1,082 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 10:07:23 | 36.42 | 30.52 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 10:07:23 | 36.75 | 30.85 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 10:07:23 | 37.07 | 31.17 | 1,073 | 0.34 | 0.38 | 58.7 |
| 5/1/2015 10:07:24 | 37.40 | 31.50 | 1,098 | 0.34 | 0.38 | 60.1 |
| 5/1/2015 10:07:24 | 37.73 | 31.83 | 1,098 | 0.34 | 0.38 | 60.1 |
| 5/1/2015 10:07:24 | 38.06 | 32.16 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 10:07:25 | 38.39 | 32.49 | 1,088 | 0.34 | 0.38 | 59.5 |
| 5/1/2015 10:07:25 | 38.71 | 32.81 | 1,088 | 0.34 | 0.38 | 59.5 |
| 5/1/2015 10:07:25 | 39.04 | 33.14 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 10:07:26 | 39.37 | 33.47 | 1,085 | 0.35 | 0.38 | 59.3 |
| 5/1/2015 10:07:26 | 39.70 | 33.80 | 1,106 | 0.34 | 0.38 | 60.5 |
| 5/1/2015 10:07:26 | 40.03 | 34.13 | 1,099 | 0.34 | 0.38 | 60.1 |
| 5/1/2015 10:07:27 | 40.35 | 34.45 | 1,099 | 0.34 | 0.38 | 60.1 |
| 5/1/2015 10:07:27 | 40.68 | 34.78 | 1,096 | 0.35 | 0.38 | 59.9 |
| 5/1/2015 10:07:27 | 41.01 | 35.11 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 10:07:28 | 41.34 | 35.44 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 10:07:28 | 41.67 | 35.77 | 1,105 | 0.35 | 0.38 | 60.4 |
| 5/1/2015 10:07:28 | 41.99 | 36.09 | 1,105 | 0.35 | 0.38 | 60.4 |
| 5/1/2015 10:07:29 | 42.32 | 36.42 | 1,096 | 0.33 | 0.39 | 59.9 |
| 5/1/2015 10:07:29 | 42.65 | 36.75 | 1,069 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 10:07:29 | 42.98 | 37.08 | 1,069 | 0.35 | 0.38 | 58.5 |
| 5/1/2015 10:07:30 | 43.31 | 37.41 | 1,069 | 0.35 | 0.39 | 58.5 |
| 5/1/2015 10:07:30 | 43.64 | 37.74 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:31 | 43.96 | 38.06 | 1,087 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:31 | 44.29 | 38.39 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 10:07:31 | 44.62 | 38.72 | 1,093 | 0.35 | 0.38 | 59.8 |
| 5/1/2015 10:07:31 | 44.95 | 39.05 | 1,081 | 0.35 | 0.38 | 59.1 |
| 5/1/2015 10:07:32 | 45.28 | 39.38 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 10:07:32 | 45.60 | 39.70 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 10:07:32 | 45.93 | 40.03 | 1,066 | 0.35 | 0.38 | 58.3 |
| 5/1/2015 10:07:33 | 46.26 | 40.36 | 1,098 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 10:07:33 | 46.59 | 40.69 | 1,098 | 0.35 | 0.38 | 60.0 |
| 5/1/2015 10:07:33 | 46.92 | 41.02 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:34 | 47.24 | 41.34 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:34 | 47.57 | 41.67 | 1,083 | 0.35 | 0.38 | 59.2 |
| 5/1/2015 10:07:34 | 47.90 | 42.00 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:35 | 48.23 | 42.33 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:35 | 48.56 | 42.66 | 1,104 | 0.35 | 0.38 | 60.4 |
| 5/1/2015 10:07:35 | 48.88 | 42.98 | 1,090 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 10:07:36 | 49.21 | 43.31 | 1,090 | 0.35 | 0.38 | 59.6 |
| 5/1/2015 10:07:36 | 49.54 | 43.64 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:36 | 49.87 | 43.97 | 1,086 | 0.35 | 0.38 | 59.4 |
| 5/1/2015 10:07:36 | 50.20 | 44.30 | 1,089 | 0.35 | 0.38 | 59.5 |
| 5/1/2015 10:07:37 | 50.53 | 44.63 | 1,090 | 0.34 | 0.40 | 59.6 |
| 5/1/2015 10:07:37 | 50.85 | 44.95 | 1,090 | 0.34 | 0.40 | 59.6 |
| 5/1/2015 10:07:55 | 51.18 | 45.28 | 16 | 3.17 | 0.43 | 0.9 |
| 5/1/2015 10:07:56 | 51.51 | 45.61 | 16 | 2.99 | 0.41 | 0.9 |
| 5/1/2015 10:07:56 | 51.84 | 45.94 | 151 | 2.68 | 0.40 | 8.3 |
| 5/1/2015 10:08:28 | 52.17 | 46.27 | 0 | 2.47 | 0.40 | 0.0 |
| 5/1/2015 10:08:28 | 52.49 | 46.59 | 94 | 2.33 | 0.31 | 5.2 |
| 5/1/2015 10:09:09 | 52.82 | 46.92 | 49 | 2.31 | 0.40 | 2.7 |
| 5/1/2015 10:09:10 | 53.15 | 47.25 | 205 | 2.70 | 0.42 | 11.2 |
| 5/1/2015 10:09:10 | 53.48 | 47.58 | 326 | 2.61 | 0.42 | 17.8 |
| 5/1/2015 10:09:13 | 53.81 | 47.91 | 107 | 4.36 | 0.45 | 5.9 |
| 5/1/2015 10:09:21 | 54.13 | 48.23 | 74 | 4.47 | 0.46 | 4.1 |
| 5/1/2015 10:09:25 | 54.46 | 48.56 | 108 | 4.25 | 0.46 | 5.9 |
| 5/1/2015 10:09:29 | 54.79 | 48.89 | 89 | 4.05 | 0.44 | 4.9 |
| 5/1/2015 10:09:35 | 55.12 | 49.22 | 36 | 3.35 | 0.47 | 2.0 |
| 5/1/2015 10:09:48 | 55.45 | 49.55 | 23 | 3.25 | 0.46 | 1.3 |
| 5/1/2015 10:10:01 | 55.77 | 49.87 | 23 | 3.01 | 0.38 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:10:14 | 56.08 | 50.18 | 23 | 2.88 | 0.47 | 1.2 |

## N12 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:05:34

**End Date:**
5/1/2015 10:18:49

**Operator Note:**
'5.9 5.8 b Rock @ 55"

**Northing:**
354,641.30

**Easting:**
232,975.66

**Tide (feet):**
5.90



## Hole: N13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:21:54 | 36.42 | 30.32 | 1,116 | 0.32 | 0.37 | 61.0 |
| 5/1/2015 10:21:54 | 36.75 | 30.65 | 1,110 | 0.32 | 0.38 | 60.7 |
| 5/1/2015 10:21:55 | 37.07 | 30.97 | 1,116 | 0.31 | 0.39 | 61.0 |
| 5/1/2015 10:21:55 | 37.40 | 31.30 | 1,116 | 0.31 | 0.39 | 61.0 |
| 5/1/2015 10:21:55 | 37.73 | 31.63 | 1,129 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 10:21:56 | 38.06 | 31.96 | 1,129 | 0.31 | 0.38 | 61.7 |
| 5/1/2015 10:21:56 | 38.39 | 32.29 | 1,125 | 0.31 | 0.37 | 61.5 |
| 5/1/2015 10:21:56 | 38.71 | 32.61 | 1,122 | 0.14 | 0.38 | 61.3 |
| 5/1/2015 10:21:57 | 39.04 | 32.94 | 1,122 | 0.14 | 0.38 | 61.3 |
| 5/1/2015 10:21:57 | 39.37 | 33.27 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 10:21:57 | 39.70 | 33.60 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 10:21:57 | 40.03 | 33.93 | 1,127 | 0.32 | 0.37 | 61.6 |
| 5/1/2015 10:21:58 | 40.35 | 34.25 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 10:21:58 | 40.68 | 34.58 | 1,121 | 0.31 | 0.37 | 61.3 |
| 5/1/2015 10:21:58 | 41.01 | 34.91 | 1,119 | 0.32 | 0.38 | 61.2 |
| 5/1/2015 10:21:59 | 41.34 | 35.24 | 1,118 | 0.34 | 0.37 | 61.1 |
| 5/1/2015 10:21:59 | 41.67 | 35.57 | 1,118 | 0.34 | 0.37 | 61.1 |
| 5/1/2015 10:21:59 | 41.99 | 35.89 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 10:22:00 | 42.32 | 36.22 | 1,130 | 0.32 | 0.37 | 61.8 |
| 5/1/2015 10:22:00 | 42.65 | 36.55 | 1,125 | 0.31 | 0.38 | 61.5 |
| 5/1/2015 10:22:00 | 42.98 | 36.88 | 1,121 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 10:22:01 | 43.31 | 37.21 | 1,121 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 10:22:01 | 43.64 | 37.54 | 1,114 | 0.34 | 0.37 | 60.9 |
| 5/1/2015 10:22:01 | 43.96 | 37.86 | 1,114 | 0.34 | 0.37 | 60.9 |
| 5/1/2015 10:22:01 | 44.29 | 38.19 | 1,129 | 0.33 | 0.38 | 61.7 |
| 5/1/2015 10:22:02 | 44.62 | 38.52 | 1,116 | 0.56 | 0.38 | 61.0 |
| 5/1/2015 10:22:02 | 44.95 | 38.85 | 1,116 | 0.56 | 0.38 | 61.0 |
| 5/1/2015 10:22:02 | 45.28 | 39.18 | 1,123 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 10:22:03 | 45.60 | 39.50 | 1,123 | 0.33 | 0.38 | 61.4 |
| 5/1/2015 10:22:03 | 45.93 | 39.83 | 1,126 | 0.32 | 0.38 | 61.5 |
| 5/1/2015 10:22:09 | 46.26 | 40.16 | 49 | 0.32 | 0.37 | 2.7 |
| 5/1/2015 10:22:10 | 46.59 | 40.49 | 49 | 0.32 | 0.37 | 2.7 |
| 5/1/2015 10:22:10 | 46.92 | 40.82 | 294 | 0.32 | 0.37 | 16.1 |
| 5/1/2015 10:22:10 | 47.24 | 41.14 | 294 | 0.32 | 0.37 | 16.1 |
| 5/1/2015 10:22:10 | 47.57 | 41.47 | 527 | 0.32 | 0.37 | 28.8 |
| 5/1/2015 10:22:11 | 47.90 | 41.80 | 752 | 0.32 | 0.37 | 41.1 |
| 5/1/2015 10:22:11 | 48.23 | 42.13 | 752 | 0.32 | 0.37 | 41.1 |
| 5/1/2015 10:22:11 | 48.56 | 42.46 | 978 | 0.33 | 0.38 | 53.5 |
| 5/1/2015 10:22:12 | 48.88 | 42.78 | 978 | 0.33 | 0.38 | 53.5 |
| 5/1/2015 10:22:12 | 49.21 | 43.11 | 1,168 | 0.33 | 0.37 | 63.9 |
| 5/1/2015 10:22:12 | 49.54 | 43.44 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 10:22:13 | 49.87 | 43.77 | 1,151 | 0.33 | 0.38 | 62.9 |
| 5/1/2015 10:22:13 | 50.20 | 44.10 | 1,141 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 10:22:13 | 50.53 | 44.43 | 1,141 | 0.33 | 0.37 | 62.4 |
| 5/1/2015 10:22:13 | 50.85 | 44.75 | 1,148 | 0.33 | 0.37 | 62.8 |
| 5/1/2015 10:22:14 | 51.18 | 45.08 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/1/2015 10:22:15 | 51.51 | 45.41 | 1,148 | 0.33 | 0.38 | 62.8 |
| 5/1/2015 10:22:23 | 51.84 | 45.74 | 17 | 2.14 | 0.35 | 0.9 |
| 5/1/2015 10:22:24 | 52.17 | 46.07 | 194 | 2.92 | 0.43 | 10.6 |
| 5/1/2015 10:22:32 | 52.49 | 46.39 | 86 | 5.32 | 0.45 | 4.7 |
| 5/1/2015 10:22:36 | 52.82 | 46.72 | 119 | 4.22 | 0.47 | 6.5 |
| 5/1/2015 10:22:37 | 53.15 | 47.05 | 157 | 4.07 | 0.45 | 8.6 |
| 5/1/2015 10:22:39 | 53.48 | 47.38 | 240 | 3.50 | 0.45 | 13.1 |
| 5/1/2015 10:22:40 | 53.81 | 47.71 | 251 | 3.74 | 0.45 | 13.7 |
| 5/1/2015 10:22:42 | 54.13 | 48.03 | 228 | 3.74 | 0.45 | 12.5 |
| 5/1/2015 10:22:53 | 54.46 | 48.36 | 46 | 4.36 | 0.47 | 2.5 |
| 5/1/2015 10:23:00 | 54.79 | 48.69 | 53 | 4.85 | 0.46 | 2.9 |
| 5/1/2015 10:23:03 | 55.12 | 49.02 | 116 | 3.41 | 0.44 | 6.3 |
| 5/1/2015 10:23:04 | 55.45 | 49.35 | 195 | 4.30 | 0.46 | 10.7 |
| 5/1/2015 10:23:07 | 55.77 | 49.67 | 98 | 3.57 | 0.46 | 5.4 |
| 5/1/2015 10:23:11 | 56.10 | 50.00 | 97 | 3.35 | 0.46 | 5.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:23:14 | 56.43 | 50.33 | 126 | 3.64 | 0.45 | 6.9 |
| 5/1/2015 | 10:23:15 | 56.76 | 50.66 | 156 | 3.54 | 0.44 | 8.5 |
| 5/1/2015 | 10:23:18 | 57.09 | 50.99 | 202 | 3.36 | 0.46 | 11.1 |
| 5/1/2015 | 10:23:22 | 57.41 | 51.31 | 81 | 3.46 | 0.46 | 4.4 |
| 5/1/2015 | 10:23:26 | 57.74 | 51.64 | 72 | 3.19 | 0.46 | 3.9 |
| 5/1/2015 | 10:23:30 | 58.07 | 51.97 | 104 | 3.46 | 0.47 | 5.7 |
| 5/1/2015 | 10:23:33 | 58.40 | 52.30 | 104 | 3.33 | 0.47 | 5.7 |
| 5/1/2015 | 10:23:36 | 58.73 | 52.63 | 110 | 3.48 | 0.45 | 6.0 |
| 5/1/2015 | 10:23:40 | 59.06 | 52.96 | 93 | 3.11 | 0.46 | 5.1 |
| 5/1/2015 | 10:23:44 | 59.38 | 53.28 | 112 | 3.70 | 0.45 | 6.1 |
| 5/1/2015 | 10:23:48 | 59.71 | 53.61 | 75 | 3.44 | 0.46 | 4.1 |
| 5/1/2015 | 10:23:53 | 60.04 | 53.94 | 87 | 3.73 | 0.46 | 4.7 |
| 5/1/2015 | 10:23:57 | 60.37 | 54.27 | 82 | 3.50 | 0.46 | 4.5 |
| 5/1/2015 | 10:24:00 | 60.58 | 54.48 | 69 | 3.11 | 0.47 | 3.8 |

## N13 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:18:58

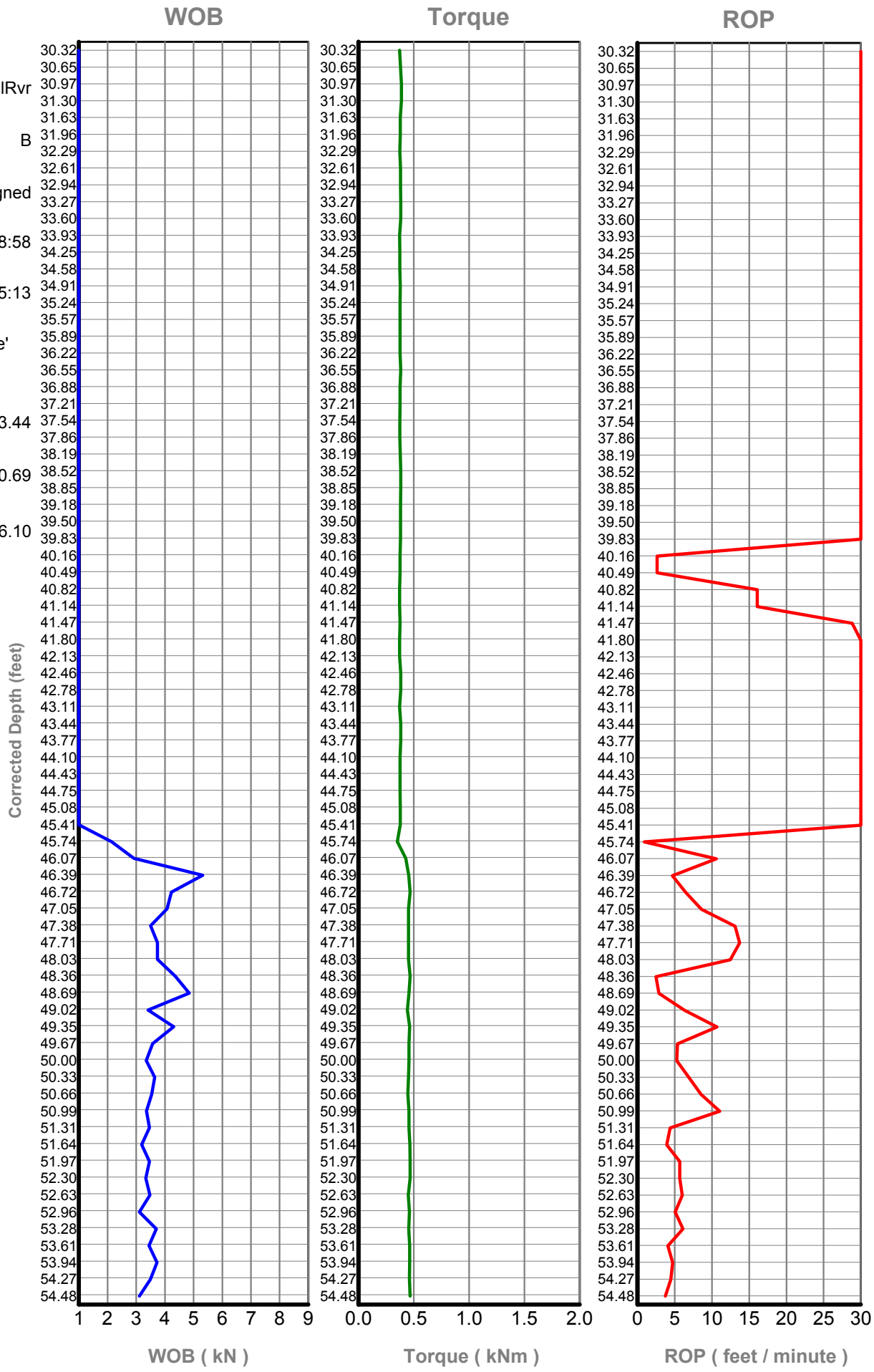
**End Date:**
5/1/2015 10:25:13

**Operator Note:**
'6.1 5.6 b Auto Complete'

**Northing:**
354,683.44

**Easting:**
233,040.69

**Tide (feet):**
6.10



## Hole: N14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:41:29 | 36.42 | 30.22 | 1,144 | 0.31 | 0.37 | 62.6 |
| 5/1/2015 10:41:29 | 36.75 | 30.55 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 10:41:30 | 37.07 | 30.87 | 1,156 | 0.31 | 0.37 | 63.2 |
| 5/1/2015 10:41:30 | 37.40 | 31.20 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 10:41:31 | 37.73 | 31.53 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 10:41:31 | 38.06 | 31.86 | 1,176 | 0.34 | 0.38 | 64.3 |
| 5/1/2015 10:41:31 | 38.39 | 32.19 | 1,162 | 0.38 | 0.37 | 63.6 |
| 5/1/2015 10:41:32 | 38.71 | 32.51 | 1,162 | 0.38 | 0.37 | 63.6 |
| 5/1/2015 10:41:32 | 39.04 | 32.84 | 1,172 | 0.39 | 0.37 | 64.1 |
| 5/1/2015 10:41:32 | 39.37 | 33.17 | 1,172 | 0.39 | 0.37 | 64.1 |
| 5/1/2015 10:41:32 | 39.70 | 33.50 | 1,145 | 0.40 | 0.38 | 62.6 |
| 5/1/2015 10:41:33 | 40.03 | 33.83 | 1,159 | 0.30 | 0.37 | 63.4 |
| 5/1/2015 10:41:33 | 40.35 | 34.15 | 1,159 | 0.30 | 0.37 | 63.4 |
| 5/1/2015 10:41:33 | 40.68 | 34.48 | 1,152 | 0.30 | 0.37 | 63.0 |
| 5/1/2015 10:41:34 | 41.01 | 34.81 | 1,152 | 0.30 | 0.37 | 63.0 |
| 5/1/2015 10:41:34 | 41.34 | 35.14 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/1/2015 10:41:34 | 41.67 | 35.47 | 1,151 | 0.33 | 0.37 | 62.9 |
| 5/1/2015 10:41:34 | 41.99 | 35.79 | 1,122 | 0.32 | 0.37 | 61.3 |
| 5/1/2015 10:41:35 | 42.32 | 36.12 | 1,122 | 0.30 | 0.37 | 61.3 |
| 5/1/2015 10:41:35 | 42.65 | 36.45 | 1,122 | 0.30 | 0.37 | 61.3 |
| 5/1/2015 10:41:35 | 42.98 | 36.78 | 1,161 | 0.30 | 0.37 | 63.5 |
| 5/1/2015 10:41:36 | 43.31 | 37.11 | 1,161 | 0.30 | 0.37 | 63.5 |
| 5/1/2015 10:41:36 | 43.64 | 37.44 | 1,165 | 0.31 | 0.37 | 63.7 |
| 5/1/2015 10:41:36 | 43.96 | 37.76 | 1,166 | 0.41 | 0.37 | 63.8 |
| 5/1/2015 10:41:37 | 44.29 | 38.09 | 1,166 | 0.41 | 0.37 | 63.8 |
| 5/1/2015 10:41:37 | 44.62 | 38.42 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 10:41:37 | 44.95 | 38.75 | 1,180 | 0.31 | 0.37 | 64.5 |
| 5/1/2015 10:41:37 | 45.28 | 39.08 | 1,204 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 10:41:38 | 45.60 | 39.40 | 1,204 | 0.31 | 0.37 | 65.8 |
| 5/1/2015 10:41:38 | 45.93 | 39.73 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 10:41:38 | 46.26 | 40.06 | 1,182 | 0.31 | 0.37 | 64.7 |
| 5/1/2015 10:41:39 | 46.59 | 40.39 | 1,182 | 0.31 | 0.37 | 64.7 |
| 5/1/2015 10:41:39 | 46.92 | 40.72 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 10:41:39 | 47.24 | 41.04 | 1,185 | 0.31 | 0.37 | 64.8 |
| 5/1/2015 10:41:39 | 47.57 | 41.37 | 1,178 | 0.30 | 0.37 | 64.4 |
| 5/1/2015 10:41:40 | 47.90 | 41.70 | 1,178 | 0.30 | 0.37 | 64.4 |
| 5/1/2015 10:41:40 | 48.23 | 42.03 | 1,188 | 0.30 | 0.37 | 65.0 |
| 5/1/2015 10:41:40 | 48.56 | 42.36 | 1,175 | 0.30 | 0.37 | 64.3 |
| 5/1/2015 10:41:41 | 48.88 | 42.68 | 1,175 | 0.30 | 0.37 | 64.3 |
| 5/1/2015 10:41:41 | 49.21 | 43.01 | 1,175 | 0.30 | 0.37 | 64.3 |
| 5/1/2015 10:41:42 | 49.54 | 43.34 | 1,175 | 0.30 | 0.37 | 64.3 |
| 5/1/2015 10:41:42 | 49.87 | 43.67 | 1,170 | 0.37 | 0.38 | 64.0 |
| 5/1/2015 10:41:42 | 50.20 | 44.00 | 1,170 | 0.37 | 0.38 | 64.0 |
| 5/1/2015 10:41:42 | 50.53 | 44.33 | 1,170 | 0.27 | 0.37 | 64.0 |
| 5/1/2015 10:41:43 | 50.85 | 44.65 | 1,184 | 0.29 | 0.37 | 64.8 |
| 5/1/2015 10:41:43 | 51.18 | 44.98 | 1,184 | 0.29 | 0.37 | 64.8 |
| 5/1/2015 10:41:43 | 51.51 | 45.31 | 1,184 | 0.30 | 0.38 | 64.8 |
| 5/1/2015 10:41:44 | 51.84 | 45.64 | 1,184 | 0.30 | 0.38 | 64.8 |
| 5/1/2015 10:41:44 | 52.17 | 45.97 | 1,172 | 0.30 | 0.38 | 64.1 |
| 5/1/2015 10:41:44 | 52.49 | 46.29 | 1,191 | 0.30 | 0.38 | 65.1 |
| 5/1/2015 10:41:45 | 52.82 | 46.62 | 1,191 | 0.30 | 0.38 | 65.1 |
| 5/1/2015 10:41:45 | 53.15 | 46.95 | 1,187 | 0.30 | 0.38 | 64.9 |
| 5/1/2015 10:41:45 | 53.48 | 47.28 | 1,187 | 0.30 | 0.38 | 64.9 |
| 5/1/2015 10:41:45 | 53.81 | 47.61 | 1,174 | 0.30 | 0.37 | 64.2 |
| 5/1/2015 10:41:46 | 54.13 | 47.93 | 1,156 | 0.29 | 0.41 | 63.2 |
| 5/1/2015 10:41:46 | 54.46 | 48.26 | 1,156 | 0.29 | 0.41 | 63.2 |
| 5/1/2015 10:42:00 | 54.79 | 48.59 | 50 | 6.85 | 0.46 | 2.7 |
| 5/1/2015 10:42:03 | 55.12 | 48.92 | 145 | 4.18 | 0.45 | 7.9 |
| 5/1/2015 10:42:10 | 55.45 | 49.25 | 0 | 5.76 | 0.46 | 0.0 |
| 5/1/2015 10:42:11 | 55.77 | 49.57 | 110 | 3.08 | 0.42 | 6.0 |
| 5/1/2015 10:42:12 | 56.10 | 49.90 | 210 | 2.46 | 0.39 | 11.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:42:12 | 56.43 | 50.23 | 363 | 3.25 | 0.44 | 19.9 |
| 5/1/2015 | 10:42:14 | 56.76 | 50.56 | 444 | 4.31 | 0.44 | 24.3 |
| 5/1/2015 | 10:42:14 | 57.09 | 50.89 | 418 | 3.94 | 0.43 | 22.9 |
| 5/1/2015 | 10:42:15 | 57.41 | 51.21 | 418 | 2.33 | 0.39 | 22.9 |
| 5/1/2015 | 10:42:15 | 57.74 | 51.54 | 442 | 2.27 | 0.41 | 24.1 |
| 5/1/2015 | 10:42:17 | 58.07 | 51.87 | 424 | 3.74 | 0.46 | 23.2 |
| 5/1/2015 | 10:42:24 | 58.40 | 52.20 | 43 | 3.88 | 0.44 | 2.3 |
| 5/1/2015 | 10:42:25 | 58.73 | 52.53 | 156 | 3.58 | 0.45 | 8.5 |
| 5/1/2015 | 10:42:27 | 59.06 | 52.86 | 225 | 4.03 | 0.46 | 12.3 |
| 5/1/2015 | 10:42:29 | 59.38 | 53.18 | 168 | 3.73 | 0.45 | 9.2 |
| 5/1/2015 | 10:42:31 | 59.71 | 53.51 | 182 | 4.19 | 0.45 | 10.0 |
| 5/1/2015 | 10:42:34 | 60.04 | 53.84 | 174 | 3.84 | 0.44 | 9.5 |
| 5/1/2015 | 10:42:36 | 60.37 | 54.17 | 108 | 4.55 | 0.45 | 5.9 |
| 5/1/2015 | 10:42:38 | 60.70 | 54.50 | 191 | 3.46 | 0.44 | 10.4 |
| 5/1/2015 | 10:42:39 | 61.02 | 54.82 | 234 | 3.56 | 0.45 | 12.8 |
| 5/1/2015 | 10:42:40 | 61.20 | 55.00 | 222 | 3.89 | 0.47 | 12.1 |

## N14 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:35:29

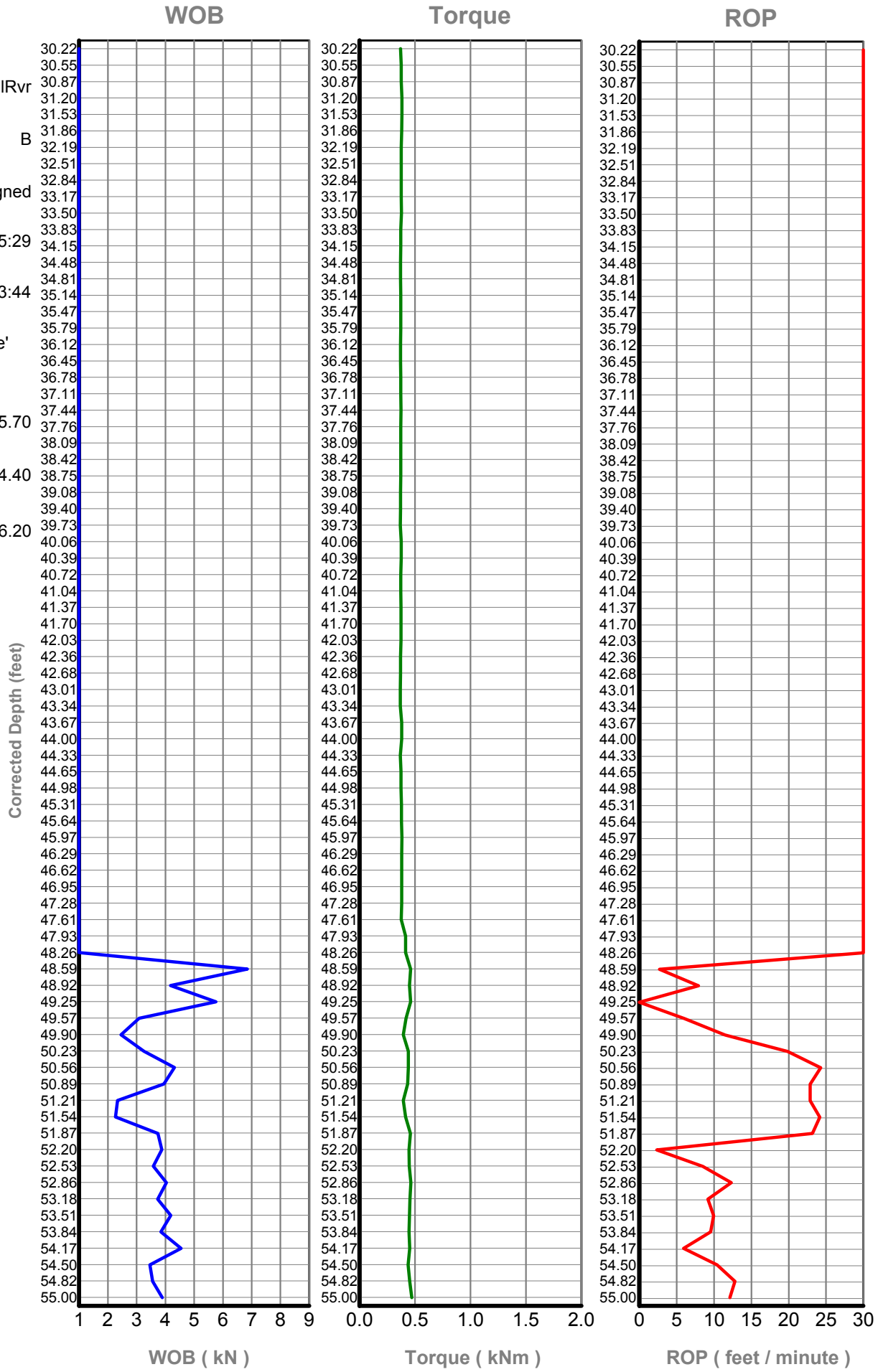
**End Date:**
5/1/2015 10:43:44

**Operator Note:**
'6.2 6.2 b Auto Complete'

**Northing:**
354,725.70

**Easting:**
233,104.40

**Tide (feet):**
6.20



## Hole: N15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:56:50 | 36.42 | 30.12 | 1,151 | 0.39 | 0.41 | 63.0 |
| 5/1/2015 10:56:50 | 36.75 | 30.45 | 1,151 | 0.39 | 0.41 | 63.0 |
| 5/1/2015 10:56:50 | 37.07 | 30.77 | 1,154 | 0.39 | 0.39 | 63.1 |
| 5/1/2015 10:56:51 | 37.40 | 31.10 | 1,154 | 0.39 | 0.39 | 63.1 |
| 5/1/2015 10:56:51 | 37.73 | 31.43 | 1,130 | 0.39 | 0.40 | 61.8 |
| 5/1/2015 10:56:51 | 38.06 | 31.76 | 1,145 | 0.39 | 0.41 | 62.6 |
| 5/1/2015 10:56:52 | 38.39 | 32.09 | 1,145 | 0.39 | 0.41 | 62.6 |
| 5/1/2015 10:56:52 | 38.71 | 32.41 | 1,126 | 0.39 | 0.39 | 61.6 |
| 5/1/2015 10:56:52 | 39.04 | 32.74 | 1,126 | 0.39 | 0.39 | 61.6 |
| 5/1/2015 10:56:52 | 39.37 | 33.07 | 1,126 | 0.40 | 0.37 | 61.6 |
| 5/1/2015 10:56:53 | 39.70 | 33.40 | 1,134 | 0.38 | 0.39 | 62.0 |
| 5/1/2015 10:56:53 | 40.03 | 33.73 | 1,134 | 0.38 | 0.39 | 62.0 |
| 5/1/2015 10:56:53 | 40.35 | 34.05 | 1,133 | 0.39 | 0.40 | 62.0 |
| 5/1/2015 10:56:54 | 40.68 | 34.38 | 1,133 | 0.39 | 0.40 | 62.0 |
| 5/1/2015 10:56:54 | 41.01 | 34.71 | 1,146 | 0.39 | 0.40 | 62.7 |
| 5/1/2015 10:56:54 | 41.34 | 35.04 | 1,121 | 0.41 | 0.39 | 61.3 |
| 5/1/2015 10:56:55 | 41.67 | 35.37 | 1,121 | 0.41 | 0.39 | 61.3 |
| 5/1/2015 10:56:55 | 41.99 | 35.69 | 1,121 | 0.39 | 0.40 | 61.3 |
| 5/1/2015 10:56:56 | 42.32 | 36.02 | 1,121 | 0.39 | 0.40 | 61.3 |
| 5/1/2015 10:56:55 | 42.65 | 36.35 | 1,133 | 0.39 | 0.40 | 62.0 |
| 5/1/2015 10:56:56 | 42.98 | 36.68 | 1,133 | 0.33 | 0.40 | 62.0 |
| 5/1/2015 10:56:56 | 43.31 | 37.01 | 1,133 | 0.33 | 0.40 | 62.0 |
| 5/1/2015 10:56:57 | 43.64 | 37.34 | 1,147 | 0.29 | 0.38 | 62.7 |
| 5/1/2015 10:56:57 | 43.96 | 37.66 | 1,147 | 0.29 | 0.38 | 62.7 |
| 5/1/2015 10:56:57 | 44.29 | 37.99 | 1,137 | 0.29 | 0.37 | 62.2 |
| 5/1/2015 10:56:58 | 44.62 | 38.32 | 1,137 | 0.29 | 0.37 | 62.2 |
| 5/1/2015 10:56:58 | 44.95 | 38.65 | 1,137 | 0.29 | 0.37 | 62.2 |
| 5/1/2015 10:56:58 | 45.28 | 38.98 | 1,148 | 0.28 | 0.37 | 62.8 |
| 5/1/2015 10:56:59 | 45.60 | 39.30 | 1,148 | 0.28 | 0.37 | 62.8 |
| 5/1/2015 10:56:59 | 45.93 | 39.63 | 1,173 | 0.28 | 0.37 | 64.1 |
| 5/1/2015 10:56:59 | 46.26 | 39.96 | 1,173 | 0.28 | 0.37 | 64.1 |
| 5/1/2015 10:56:59 | 46.59 | 40.29 | 1,179 | 0.28 | 0.37 | 64.5 |
| 5/1/2015 10:57:00 | 46.92 | 40.62 | 1,166 | 0.28 | 0.36 | 63.8 |
| 5/1/2015 10:57:00 | 47.24 | 40.94 | 1,166 | 0.28 | 0.36 | 63.8 |
| 5/1/2015 10:57:00 | 47.57 | 41.27 | 1,160 | 0.29 | 0.38 | 63.4 |
| 5/1/2015 10:57:01 | 47.90 | 41.60 | 1,160 | 0.29 | 0.38 | 63.4 |
| 5/1/2015 10:57:01 | 48.23 | 41.93 | 1,160 | 0.29 | 0.36 | 63.4 |
| 5/1/2015 10:57:01 | 48.56 | 42.26 | 1,160 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 10:57:02 | 48.88 | 42.58 | 1,160 | 0.29 | 0.37 | 63.4 |
| 5/1/2015 10:57:02 | 49.21 | 42.91 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/1/2015 10:57:02 | 49.54 | 43.24 | 1,156 | 0.30 | 0.37 | 63.2 |
| 5/1/2015 10:57:02 | 49.87 | 43.57 | 1,170 | 0.30 | 0.37 | 64.0 |
| 5/1/2015 10:57:03 | 50.20 | 43.90 | 1,170 | 0.30 | 0.37 | 64.0 |
| 5/1/2015 10:57:03 | 50.53 | 44.23 | 1,171 | 0.29 | 0.37 | 64.1 |
| 5/1/2015 10:57:03 | 50.85 | 44.55 | 1,187 | 0.29 | 0.37 | 64.9 |
| 5/1/2015 10:57:04 | 51.18 | 44.88 | 1,187 | 0.29 | 0.37 | 64.9 |
| 5/1/2015 10:57:04 | 51.51 | 45.21 | 1,185 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 10:57:04 | 51.84 | 45.54 | 1,185 | 0.29 | 0.38 | 64.8 |
| 5/1/2015 10:57:04 | 52.17 | 45.87 | 1,179 | 0.29 | 0.38 | 64.5 |
| 5/1/2015 10:57:05 | 52.49 | 46.19 | 1,169 | 0.29 | 0.37 | 63.9 |
| 5/1/2015 10:57:05 | 52.82 | 46.52 | 1,169 | 0.29 | 0.37 | 63.9 |
| 5/1/2015 10:57:05 | 53.15 | 46.85 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 10:57:06 | 53.48 | 47.18 | 1,156 | 0.29 | 0.38 | 63.2 |
| 5/1/2015 10:57:06 | 53.81 | 47.51 | 1,163 | 0.29 | 0.37 | 63.6 |
| 5/1/2015 10:57:06 | 54.13 | 47.83 | 1,154 | 0.29 | 0.38 | 63.1 |
| 5/1/2015 10:57:07 | 54.46 | 48.16 | 1,154 | 0.29 | 0.38 | 63.1 |
| 5/1/2015 10:57:07 | 54.79 | 48.49 | 1,139 | 0.29 | 0.39 | 62.3 |
| 5/1/2015 10:57:08 | 55.12 | 48.82 | 1,101 | 0.29 | 0.39 | 60.2 |
| 5/1/2015 10:57:08 | 55.45 | 49.15 | 1,101 | 0.29 | 0.39 | 60.2 |
| 5/1/2015 10:57:08 | 55.77 | 49.47 | 1,073 | 0.28 | 0.39 | 58.7 |
| 5/1/2015 10:57:09 | 56.10 | 49.80 | 1,021 | 0.28 | 0.39 | 55.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:57:09 | 56.43 | 50.13 | 971 | 0.25 | 0.41 | 53.1 |
| 5/1/2015 | 10:57:16 | 56.76 | 50.46 | 63 | 2.01 | 0.39 | 3.4 |
| 5/1/2015 | 10:57:16 | 57.09 | 50.79 | 63 | 2.01 | 0.39 | 3.4 |
| 5/1/2015 | 10:57:16 | 57.41 | 51.11 | 254 | 2.06 | 0.38 | 13.9 |
| 5/1/2015 | 10:57:17 | 57.74 | 51.44 | 440 | 2.04 | 0.39 | 24.0 |
| 5/1/2015 | 10:57:18 | 58.07 | 51.77 | 617 | 2.17 | 0.40 | 33.8 |
| 5/1/2015 | 10:57:18 | 58.40 | 52.10 | 617 | 2.17 | 0.40 | 33.8 |
| 5/1/2015 | 10:57:21 | 58.73 | 52.43 | 294 | 8.16 | 0.46 | 16.1 |
| 5/1/2015 | 10:57:30 | 59.06 | 52.76 | 49 | 5.77 | 0.44 | 2.7 |
| 5/1/2015 | 10:57:31 | 59.38 | 53.08 | 78 | 3.03 | 0.43 | 4.3 |
| 5/1/2015 | 10:57:31 | 59.71 | 53.41 | 196 | 3.41 | 0.42 | 10.7 |
| 5/1/2015 | 10:57:32 | 60.04 | 53.74 | 310 | 2.41 | 0.40 | 17.0 |
| 5/1/2015 | 10:57:32 | 60.37 | 54.07 | 438 | 2.10 | 0.40 | 23.9 |
| 5/1/2015 | 10:57:33 | 60.70 | 54.40 | 438 | 2.10 | 0.40 | 23.9 |
| 5/1/2015 | 10:57:33 | 61.02 | 54.72 | 588 | 2.31 | 0.42 | 32.2 |
| 5/1/2015 | 10:57:40 | 61.25 | 54.95 | 0 | 2.97 | 0.48 | 0.0 |

## N15 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:55:11

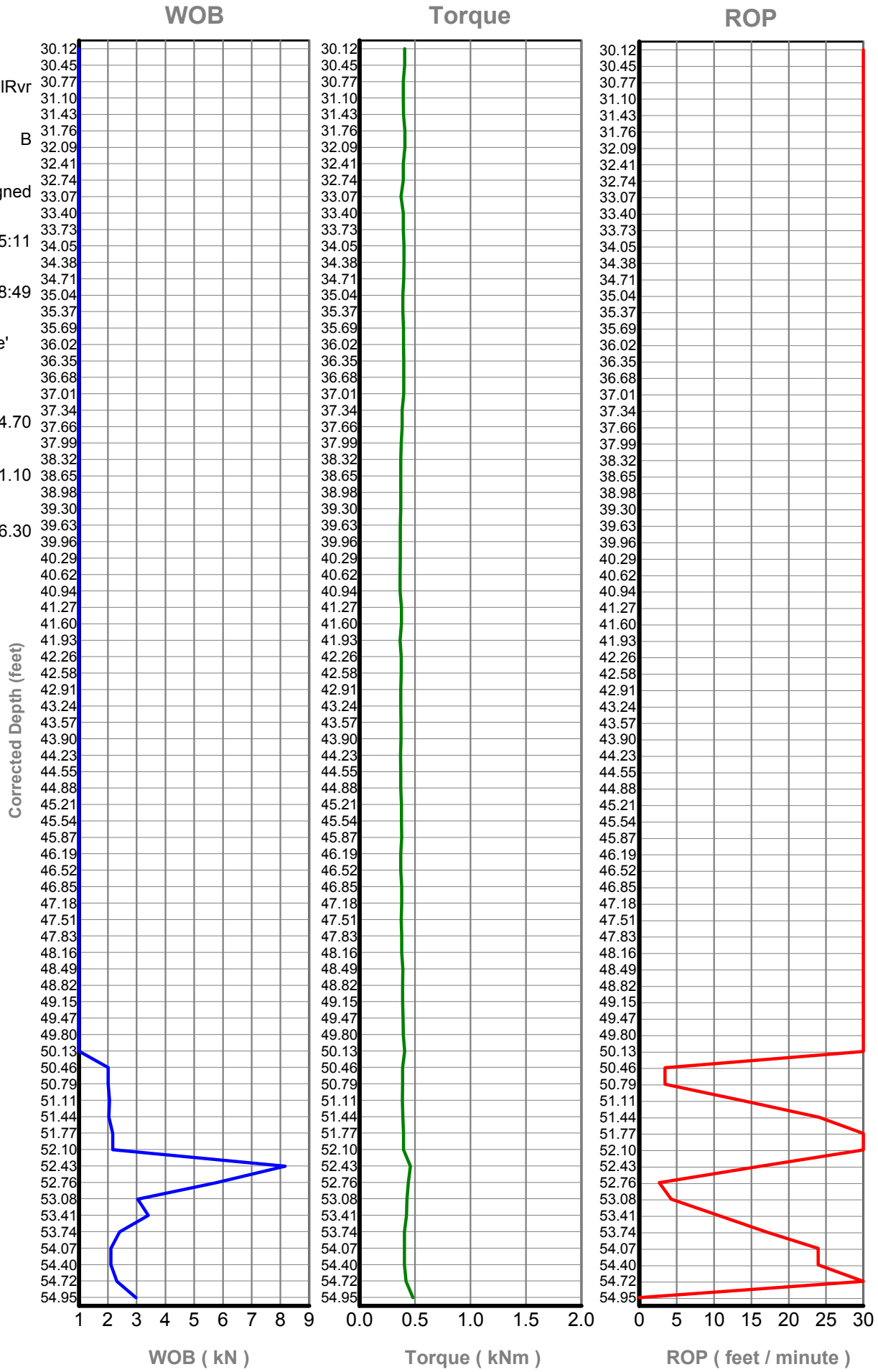
**End Date:**
5/1/2015 10:58:49

**Operator Note:**
'6.3 6.3 b Auto Complete'

**Northing:**
354,764.70

**Easting:**
233,171.10

**Tide (feet):**
6.30



## Hole: N16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 11:12:08 | 36.42 | 30.02 | 1,177 | 0.37 | 0.40 | 64.3 |
| 5/1/2015 11:12:08 | 36.75 | 30.35 | 1,171 | 0.37 | 0.41 | 64.0 |
| 5/1/2015 11:12:08 | 37.07 | 30.67 | 1,171 | 0.37 | 0.41 | 64.0 |
| 5/1/2015 11:12:08 | 37.40 | 31.00 | 1,174 | 0.37 | 0.40 | 64.2 |
| 5/1/2015 11:12:09 | 37.73 | 31.33 | 1,179 | 0.38 | 0.40 | 64.5 |
| 5/1/2015 11:12:09 | 38.06 | 31.66 | 1,179 | 0.38 | 0.40 | 64.5 |
| 5/1/2015 11:12:09 | 38.39 | 31.99 | 1,188 | 0.38 | 0.40 | 65.0 |
| 5/1/2015 11:12:10 | 38.71 | 32.31 | 1,188 | 0.38 | 0.40 | 65.0 |
| 5/1/2015 11:12:10 | 39.04 | 32.64 | 1,185 | 0.39 | 0.41 | 64.8 |
| 5/1/2015 11:12:10 | 39.37 | 32.97 | 1,185 | 0.39 | 0.41 | 64.8 |
| 5/1/2015 11:12:10 | 39.70 | 33.30 | 1,188 | 0.29 | 0.37 | 65.0 |
| 5/1/2015 11:12:21 | 40.03 | 33.63 | 0 | 0.27 | 0.36 | 0.0 |
| 5/1/2015 11:12:26 | 40.35 | 33.95 | 0 | 0.27 | 0.36 | 0.0 |
| 5/1/2015 11:12:22 | 40.68 | 34.28 | 188 | 0.27 | 0.37 | 10.3 |
| 5/1/2015 11:12:22 | 41.01 | 34.61 | 413 | 0.27 | 0.37 | 22.6 |
| 5/1/2015 11:12:23 | 41.34 | 34.94 | 413 | 0.27 | 0.37 | 22.6 |
| 5/1/2015 11:12:23 | 41.67 | 35.27 | 665 | 0.28 | 0.36 | 36.4 |
| 5/1/2015 11:12:24 | 41.99 | 35.59 | 665 | 0.28 | 0.36 | 36.4 |
| 5/1/2015 11:12:24 | 42.32 | 35.92 | 899 | 0.36 | 0.37 | 49.2 |
| 5/1/2015 11:12:24 | 42.65 | 36.25 | 899 | 0.36 | 0.37 | 49.2 |
| 5/1/2015 11:12:24 | 42.98 | 36.58 | 1,131 | 0.38 | 0.38 | 61.8 |
| 5/1/2015 11:12:25 | 43.31 | 36.91 | 1,171 | 0.39 | 0.38 | 64.0 |
| 5/1/2015 11:12:25 | 43.64 | 37.24 | 1,171 | 0.39 | 0.38 | 64.0 |
| 5/1/2015 11:12:25 | 43.96 | 37.56 | 1,181 | 0.39 | 0.40 | 64.6 |
| 5/1/2015 11:12:26 | 44.29 | 37.89 | 1,181 | 0.39 | 0.40 | 64.6 |
| 5/1/2015 11:12:26 | 44.62 | 38.22 | 1,145 | 0.38 | 0.39 | 62.6 |
| 5/1/2015 11:12:26 | 44.95 | 38.55 | 1,154 | 0.39 | 0.40 | 63.1 |
| 5/1/2015 11:12:27 | 45.28 | 38.88 | 1,154 | 0.39 | 0.40 | 63.1 |
| 5/1/2015 11:12:27 | 45.60 | 39.20 | 1,158 | 0.40 | 0.39 | 63.3 |
| 5/1/2015 11:12:27 | 45.93 | 39.53 | 1,158 | 0.40 | 0.39 | 63.3 |
| 5/1/2015 11:12:27 | 46.26 | 39.86 | 1,165 | 0.40 | 0.39 | 63.7 |
| 5/1/2015 11:12:28 | 46.59 | 40.19 | 1,158 | 0.39 | 0.39 | 63.3 |
| 5/1/2015 11:12:28 | 46.92 | 40.52 | 1,158 | 0.39 | 0.39 | 63.3 |
| 5/1/2015 11:12:28 | 47.24 | 40.84 | 1,174 | 0.39 | 0.40 | 64.2 |
| 5/1/2015 11:12:29 | 47.57 | 41.17 | 1,174 | 0.39 | 0.40 | 64.2 |
| 5/1/2015 11:12:29 | 47.90 | 41.50 | 1,169 | 0.38 | 0.40 | 63.9 |
| 5/1/2015 11:12:29 | 48.23 | 41.83 | 1,162 | 0.37 | 0.40 | 63.5 |
| 5/1/2015 11:12:30 | 48.56 | 42.16 | 1,162 | 0.37 | 0.40 | 63.5 |
| 5/1/2015 11:12:30 | 48.88 | 42.48 | 1,155 | 0.38 | 0.39 | 63.2 |
| 5/1/2015 11:12:30 | 49.21 | 42.81 | 1,155 | 0.38 | 0.39 | 63.2 |
| 5/1/2015 11:12:30 | 49.54 | 43.14 | 1,165 | 0.39 | 0.39 | 63.7 |
| 5/1/2015 11:12:31 | 49.87 | 43.47 | 1,165 | 0.39 | 0.39 | 63.7 |
| 5/1/2015 11:12:31 | 50.20 | 43.80 | 1,162 | 0.29 | 0.36 | 63.6 |
| 5/1/2015 11:12:31 | 50.53 | 44.13 | 1,162 | 0.29 | 0.36 | 63.6 |
| 5/1/2015 11:12:32 | 50.85 | 44.45 | 1,162 | 0.29 | 0.36 | 63.6 |
| 5/1/2015 11:12:32 | 51.18 | 44.78 | 1,155 | 0.28 | 0.37 | 63.2 |
| 5/1/2015 11:12:32 | 51.51 | 45.11 | 1,155 | 0.28 | 0.37 | 63.2 |
| 5/1/2015 11:12:32 | 51.84 | 45.44 | 1,171 | 0.27 | 0.37 | 64.1 |
| 5/1/2015 11:12:33 | 52.17 | 45.77 | 1,155 | 0.26 | 0.36 | 63.2 |
| 5/1/2015 11:12:33 | 52.49 | 46.09 | 1,155 | 0.26 | 0.36 | 63.2 |
| 5/1/2015 11:12:33 | 52.82 | 46.42 | 1,169 | 0.28 | 0.38 | 63.9 |
| 5/1/2015 11:12:34 | 53.15 | 46.75 | 1,169 | 0.28 | 0.38 | 63.9 |
| 5/1/2015 11:12:34 | 53.48 | 47.08 | 1,159 | 0.27 | 0.37 | 63.4 |
| 5/1/2015 11:12:35 | 53.81 | 47.41 | 1,170 | 0.27 | 0.37 | 64.0 |
| 5/1/2015 11:12:35 | 54.13 | 47.73 | 1,170 | 0.27 | 0.37 | 64.0 |
| 5/1/2015 11:12:35 | 54.46 | 48.06 | 1,140 | 0.27 | 0.38 | 62.3 |
| 5/1/2015 11:12:36 | 54.79 | 48.39 | 1,127 | 0.28 | 0.38 | 61.6 |
| 5/1/2015 11:12:36 | 55.12 | 48.72 | 1,127 | 0.28 | 0.38 | 61.6 |
| 5/1/2015 11:12:36 | 55.45 | 49.05 | 1,084 | 0.28 | 0.39 | 59.3 |
| 5/1/2015 11:12:37 | 55.77 | 49.37 | 1,053 | 0.27 | 0.38 | 57.6 |
| 5/1/2015 11:12:37 | 56.10 | 49.70 | 1,053 | 0.27 | 0.38 | 57.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/1/2015 11:12:37 | 56.43 | 50.03 | 1,017 | 0.27 | 0.39 | 55.6 |
| 5/1/2015 11:12:38 | 56.76 | 50.36 | 989 | 0.27 | 0.39 | 54.1 |
| 5/1/2015 11:12:38 | 57.09 | 50.69 | 989 | 0.27 | 0.39 | 54.1 |
| 5/1/2015 11:12:38 | 57.41 | 51.01 | 960 | 0.27 | 0.39 | 52.5 |
| 5/1/2015 11:12:39 | 57.74 | 51.34 | 945 | 0.27 | 0.39 | 51.7 |
| 5/1/2015 11:12:39 | 58.07 | 51.67 | 934 | 0.29 | 0.39 | 51.1 |
| 5/1/2015 11:12:40 | 58.40 | 52.00 | 913 | 0.28 | 0.40 | 49.9 |
| 5/1/2015 11:12:40 | 58.73 | 52.33 | 913 | 0.28 | 0.40 | 49.9 |
| 5/1/2015 11:12:40 | 59.06 | 52.66 | 899 | 0.28 | 0.39 | 49.2 |
| 5/1/2015 11:12:41 | 59.38 | 52.98 | 893 | 0.27 | 0.39 | 48.8 |
| 5/1/2015 11:12:41 | 59.71 | 53.31 | 876 | 0.27 | 0.40 | 47.9 |
| 5/1/2015 11:12:42 | 60.04 | 53.64 | 856 | 0.27 | 0.40 | 46.8 |
| 5/1/2015 11:12:42 | 60.37 | 53.97 | 856 | 0.27 | 0.40 | 46.8 |
| 5/1/2015 11:12:42 | 60.70 | 54.30 | 838 | 0.27 | 0.40 | 45.8 |
| 5/1/2015 11:12:52 | 61.02 | 54.62 | 0 | 3.86 | 0.43 | 0.0 |
| 5/1/2015 11:12:56 | 61.35 | 54.95 | 98 | 6.75 | 0.46 | 5.4 |
| 5/1/2015 11:12:57 | 61.46 | 55.06 | 73 | 5.95 | 0.47 | 4.0 |

## N16 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/1/2015 11:10:15

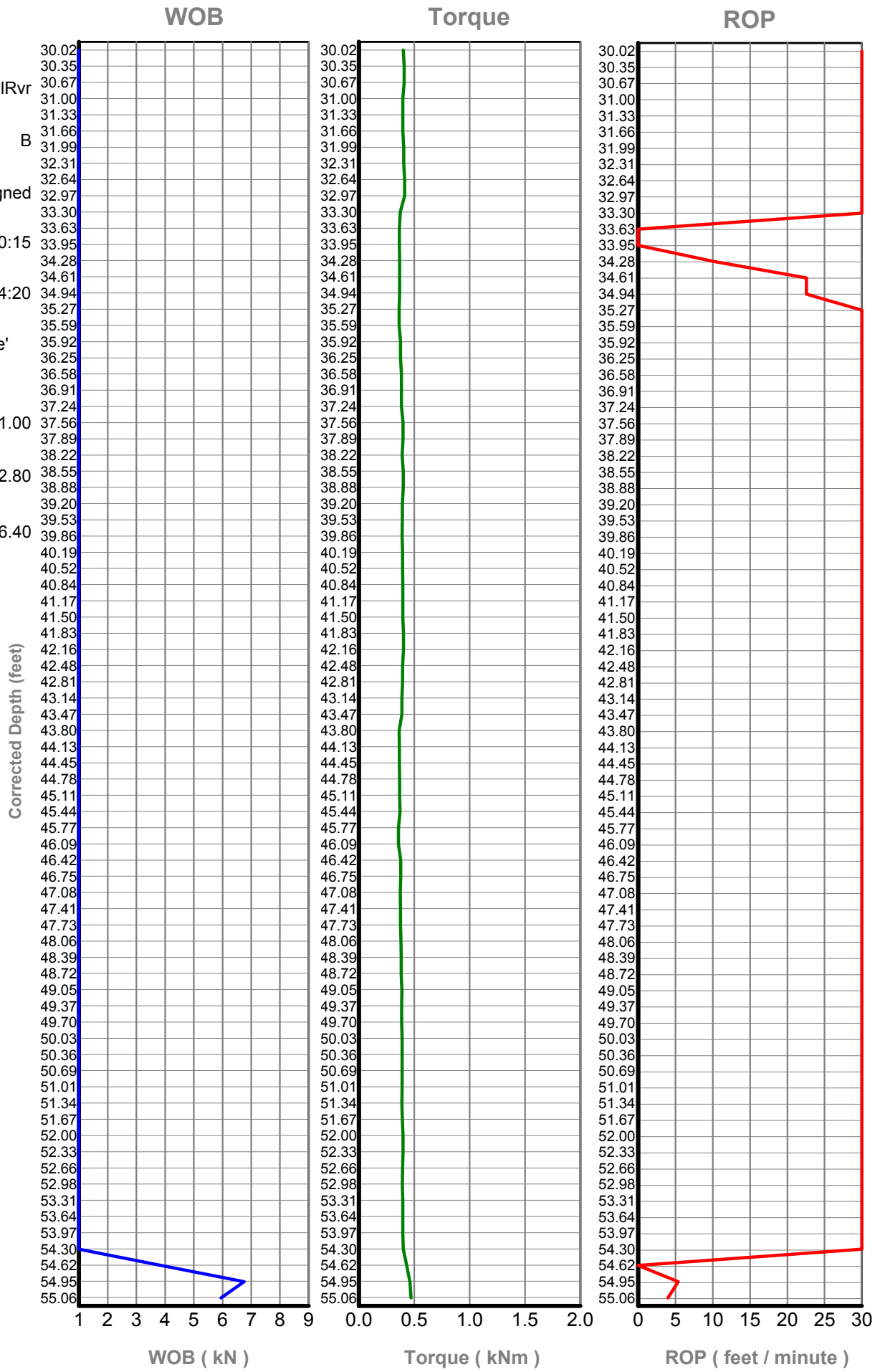
**End Date:**
5/1/2015 11:14:20

**Operator Note:**
'6.4 6.4 b Auto Complete'

**Northing:**
354,801.00

**Easting:**
233,232.80

**Tide (feet):**
6.40



## Hole: N19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 9:49:48 | 35.76 | 30.06 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:48 | 36.09 | 30.39 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 9:49:49 | 36.42 | 30.72 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 9:49:49 | 36.75 | 31.05 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:49 | 37.07 | 31.37 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 9:49:50 | 37.40 | 31.70 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:50 | 37.73 | 32.03 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:50 | 38.06 | 32.36 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 9:49:51 | 38.39 | 32.69 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:51 | 38.71 | 33.01 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:51 | 39.04 | 33.34 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:52 | 39.37 | 33.67 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:52 | 39.70 | 34.00 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:52 | 40.03 | 34.33 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:53 | 40.35 | 34.65 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 9:49:53 | 40.68 | 34.98 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 9:49:53 | 41.01 | 35.31 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:54 | 41.34 | 35.64 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:54 | 41.67 | 35.97 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 9:49:54 | 41.99 | 36.29 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 9:49:55 | 42.32 | 36.62 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 9:49:55 | 42.65 | 36.95 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:56 | 42.98 | 37.28 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:56 | 43.31 | 37.61 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:56 | 43.64 | 37.94 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 9:49:57 | 43.96 | 38.26 | 998 | 1.14 | 0.29 | 54.6 |
| 5/1/2015 9:49:57 | 44.29 | 38.59 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:58 | 44.62 | 38.92 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 9:49:58 | 44.95 | 39.25 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 9:49:58 | 45.28 | 39.58 | 994 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 9:49:59 | 45.60 | 39.90 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:59 | 45.93 | 40.23 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:49:59 | 46.26 | 40.56 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:00 | 46.59 | 40.89 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:00 | 46.92 | 41.22 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:01 | 47.24 | 41.54 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:01 | 47.57 | 41.87 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:01 | 47.90 | 42.20 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:02 | 48.23 | 42.53 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 9:50:02 | 48.56 | 42.86 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 9:50:02 | 48.88 | 43.18 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 9:50:03 | 49.21 | 43.51 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 9:50:03 | 49.54 | 43.84 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 9:50:03 | 49.87 | 44.17 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 9:50:32 | 50.20 | 44.50 | 29 | 1.14 | 0.29 | 1.6 |
| 5/1/2015 9:50:33 | 50.53 | 44.83 | 161 | 1.14 | 0.29 | 8.8 |
| 5/1/2015 9:50:34 | 50.85 | 45.15 | 275 | 1.14 | 0.29 | 15.0 |
| 5/1/2015 9:50:35 | 51.18 | 45.48 | 460 | 1.14 | 0.29 | 25.1 |
| 5/1/2015 9:50:36 | 51.51 | 45.81 | 441 | 1.14 | 0.29 | 24.1 |
| 5/1/2015 9:50:37 | 51.84 | 46.14 | 354 | 1.14 | 0.29 | 19.4 |
| 5/1/2015 9:50:38 | 52.17 | 46.47 | 337 | 1.14 | 0.29 | 18.4 |
| 5/1/2015 9:50:39 | 52.49 | 46.79 | 296 | 1.14 | 0.29 | 16.2 |
| 5/1/2015 9:51:17 | 52.82 | 47.12 | 23 | 1.14 | 0.29 | 1.3 |
| 5/1/2015 9:51:19 | 53.15 | 47.45 | 125 | 1.14 | 0.29 | 6.8 |
| 5/1/2015 9:51:23 | 53.48 | 47.78 | 93 | 1.14 | 0.29 | 5.1 |
| 5/1/2015 9:51:38 | 53.81 | 48.11 | 26 | 1.14 | 0.29 | 1.4 |
| 5/1/2015 9:51:47 | 54.13 | 48.43 | 69 | 1.14 | 0.29 | 3.8 |
| 5/1/2015 9:51:59 | 54.46 | 48.76 | 20 | 1.14 | 0.29 | 1.1 |
| 5/1/2015 9:52:14 | 54.72 | 49.02 | 17 | 1.14 | 0.29 | 1.0 |

## N19 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 9:48:14

**End Date:**
5/1/2015 9:54:04

**Operator Note:**
'5.7 5.6 c Auto Complete'

**Northing:**
354,528.30

**Easting:**
232,931.20

**Tide (feet):**
5.70



## Hole: N20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:07:31 | 36.09 | 30.19 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:31 | 36.42 | 30.52 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:31 | 36.75 | 30.85 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:32 | 37.07 | 31.17 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:32 | 37.40 | 31.50 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:33 | 37.73 | 31.83 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:33 | 38.06 | 32.16 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:33 | 38.39 | 32.49 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:33 | 38.71 | 32.81 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:34 | 39.04 | 33.14 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:07:34 | 39.37 | 33.47 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:07:35 | 39.70 | 33.80 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:07:35 | 40.03 | 34.13 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:35 | 40.35 | 34.45 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:35 | 40.68 | 34.78 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:07:36 | 41.01 | 35.11 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:36 | 41.34 | 35.44 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:37 | 41.67 | 35.77 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:37 | 41.99 | 36.09 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:07:37 | 42.32 | 36.42 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:07:38 | 42.65 | 36.75 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:07:38 | 42.98 | 37.08 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:07:38 | 43.31 | 37.41 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:07:39 | 43.64 | 37.74 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:07:39 | 43.96 | 38.06 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:39 | 44.29 | 38.39 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:40 | 44.62 | 38.72 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:40 | 44.95 | 39.05 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:07:40 | 45.28 | 39.38 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:41 | 45.60 | 39.70 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:41 | 45.93 | 40.03 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:41 | 46.26 | 40.36 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:07:42 | 46.59 | 40.69 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:07:42 | 46.92 | 41.02 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:43 | 47.24 | 41.34 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:43 | 47.57 | 41.67 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:07:43 | 47.90 | 42.00 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:07:44 | 48.23 | 42.33 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 10:07:44 | 48.56 | 42.66 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 10:07:44 | 48.88 | 42.98 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:07:45 | 49.21 | 43.31 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 10:07:45 | 49.54 | 43.64 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 10:07:45 | 49.87 | 43.97 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/1/2015 10:07:46 | 50.20 | 44.30 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 10:07:46 | 50.53 | 44.63 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 10:07:46 | 50.85 | 44.95 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 10:07:47 | 51.18 | 45.28 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 10:07:47 | 51.51 | 45.61 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 10:07:47 | 51.84 | 45.94 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 10:07:48 | 52.17 | 46.27 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 10:07:48 | 52.49 | 46.59 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 10:08:12 | 52.82 | 46.92 | 0 | 1.14 | 0.29 | 0.0 |
| 5/1/2015 10:08:16 | 53.15 | 47.25 | 122 | 1.14 | 0.29 | 6.7 |
| 5/1/2015 10:08:22 | 53.48 | 47.58 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 10:08:33 | 53.81 | 47.91 | 35 | 1.14 | 0.29 | 1.9 |
| 5/1/2015 10:08:45 | 54.13 | 48.23 | 32 | 1.14 | 0.29 | 1.7 |
| 5/1/2015 10:08:57 | 54.46 | 48.56 | 32 | 1.14 | 0.29 | 1.7 |
| 5/1/2015 10:09:07 | 54.79 | 48.89 | 32 | 1.14 | 0.29 | 1.8 |

## N20 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:06:25

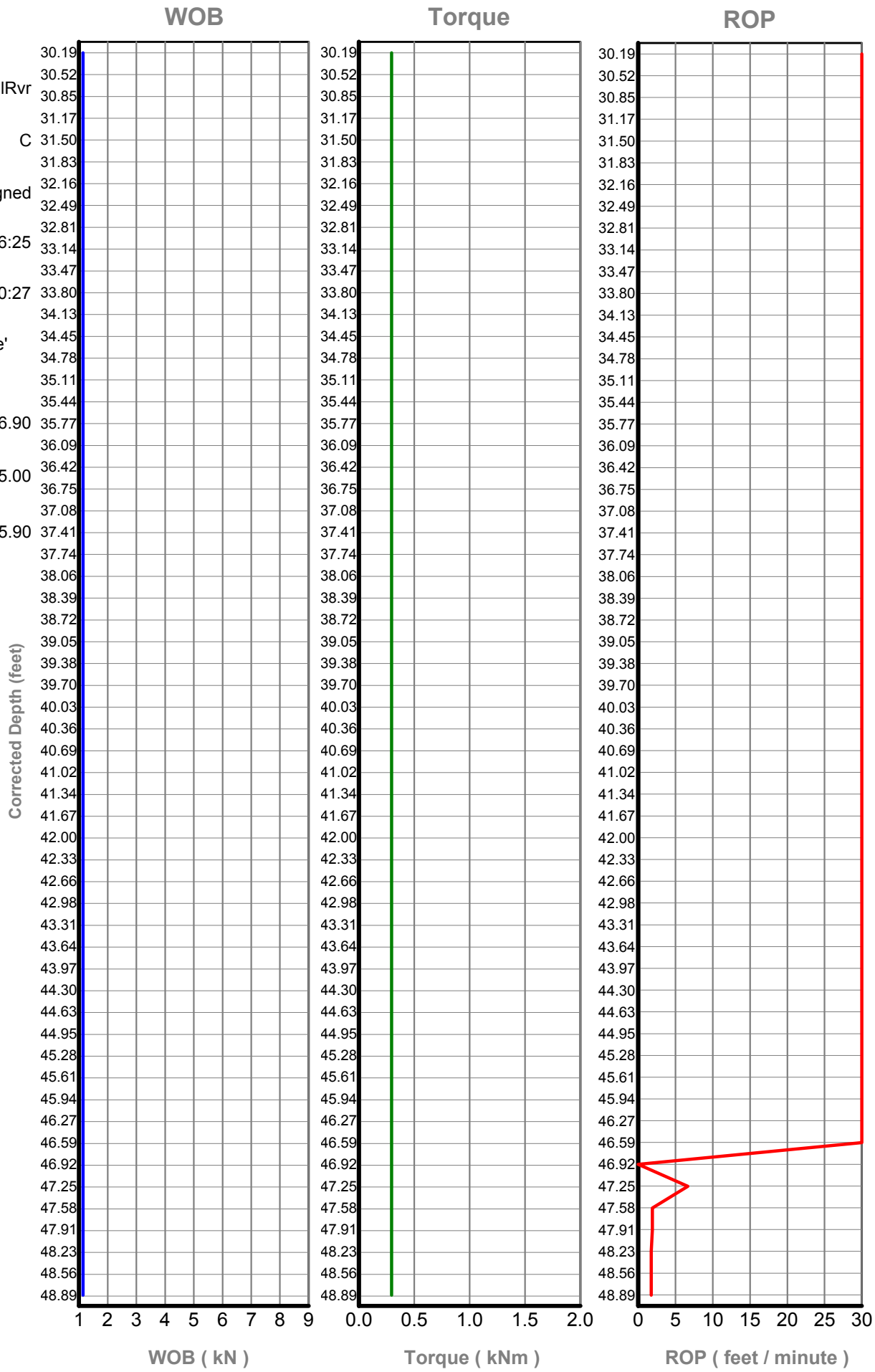
**End Date:**
5/1/2015 10:10:27

**Operator Note:**
'5.9 5.8 c Auto Complete'

**Northing:**
354,576.90

**Easting:**
233,015.00

**Tide (feet):**
5.90



## Hole: N21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:21:25 | 36.42 | 30.32 | 978 | 1.14 | 0.29 | 53.5 |
| 5/1/2015 10:21:25 | 36.75 | 30.65 | 984 | 1.14 | 0.29 | 53.8 |
| 5/1/2015 10:21:26 | 37.07 | 30.97 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 10:21:26 | 37.40 | 31.30 | 990 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 10:21:26 | 37.73 | 31.63 | 986 | 1.14 | 0.29 | 53.9 |
| 5/1/2015 10:21:27 | 38.06 | 31.96 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 10:21:27 | 38.39 | 32.29 | 995 | 1.14 | 0.29 | 54.4 |
| 5/1/2015 10:21:27 | 38.71 | 32.61 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 10:21:28 | 39.04 | 32.94 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 10:21:28 | 39.37 | 33.27 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 10:21:29 | 39.70 | 33.60 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 10:21:29 | 40.03 | 33.93 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:30 | 40.35 | 34.25 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:30 | 40.68 | 34.58 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:30 | 41.01 | 34.91 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 10:21:31 | 41.34 | 35.24 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:31 | 41.67 | 35.57 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:31 | 41.99 | 35.89 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 10:21:32 | 42.32 | 36.22 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:32 | 42.65 | 36.55 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:32 | 42.98 | 36.88 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:33 | 43.31 | 37.21 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:33 | 43.64 | 37.54 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:33 | 43.96 | 37.86 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:34 | 44.29 | 38.19 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:34 | 44.62 | 38.52 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:34 | 44.95 | 38.85 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:35 | 45.28 | 39.18 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:35 | 45.60 | 39.50 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:35 | 45.93 | 39.83 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/1/2015 10:21:36 | 46.26 | 40.16 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:36 | 46.59 | 40.49 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:36 | 46.92 | 40.82 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:37 | 47.24 | 41.14 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:21:37 | 47.57 | 41.47 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 10:21:37 | 47.90 | 41.80 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:38 | 48.23 | 42.13 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 10:21:38 | 48.56 | 42.46 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/1/2015 10:21:38 | 48.88 | 42.78 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:21:39 | 49.21 | 43.11 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:39 | 49.54 | 43.44 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:21:39 | 49.87 | 43.77 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:40 | 50.20 | 44.10 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:40 | 50.53 | 44.43 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:21:41 | 50.85 | 44.75 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 10:21:41 | 51.18 | 45.08 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 10:21:42 | 51.51 | 45.41 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 10:21:42 | 51.84 | 45.74 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 10:21:42 | 52.17 | 46.07 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 10:21:43 | 52.49 | 46.39 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 10:21:43 | 52.82 | 46.72 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 10:21:43 | 53.15 | 47.05 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 10:21:44 | 53.48 | 47.38 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 10:21:44 | 53.81 | 47.71 | 992 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 10:21:44 | 54.13 | 48.03 | 980 | 1.14 | 0.29 | 53.6 |
| 5/1/2015 10:21:45 | 54.46 | 48.36 | 965 | 1.14 | 0.29 | 52.8 |
| 5/1/2015 10:21:45 | 54.79 | 48.69 | 931 | 1.14 | 0.29 | 50.9 |
| 5/1/2015 10:21:46 | 55.12 | 49.02 | 895 | 1.14 | 0.29 | 49.0 |
| 5/1/2015 10:21:46 | 55.45 | 49.35 | 895 | 1.14 | 0.29 | 49.0 |
| 5/1/2015 10:21:46 | 55.77 | 49.67 | 861 | 1.14 | 0.29 | 47.1 |
| 5/1/2015 10:21:47 | 56.10 | 50.00 | 823 | 1.14 | 0.29 | 45.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:22:06 | 56.43 | 50.33 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 10:22:07 | 56.76 | 50.66 | 108 | 1.14 | 0.29 | 5.9 |
| 5/1/2015 | 10:22:08 | 57.09 | 50.99 | 294 | 1.14 | 0.29 | 16.1 |
| 5/1/2015 | 10:22:09 | 57.41 | 51.31 | 358 | 1.14 | 0.29 | 19.6 |
| 5/1/2015 | 10:22:10 | 57.74 | 51.64 | 341 | 1.14 | 0.29 | 18.6 |
| 5/1/2015 | 10:22:34 | 58.07 | 51.97 | 58 | 1.14 | 0.29 | 3.2 |
| 5/1/2015 | 10:22:36 | 58.40 | 52.30 | 183 | 1.14 | 0.29 | 10.0 |
| 5/1/2015 | 10:22:39 | 58.73 | 52.63 | 111 | 1.14 | 0.29 | 6.1 |
| 5/1/2015 | 10:22:50 | 59.06 | 52.96 | 52 | 1.14 | 0.29 | 2.9 |
| 5/1/2015 | 10:22:55 | 59.38 | 53.28 | 67 | 1.14 | 0.29 | 3.7 |
| 5/1/2015 | 10:23:02 | 59.71 | 53.61 | 47 | 1.14 | 0.29 | 2.5 |
| 5/1/2015 | 10:23:11 | 60.04 | 53.94 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 10:23:20 | 60.37 | 54.27 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 10:23:25 | 60.64 | 54.54 | 55 | 1.14 | 0.29 | 3.0 |

## N21 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:20:21

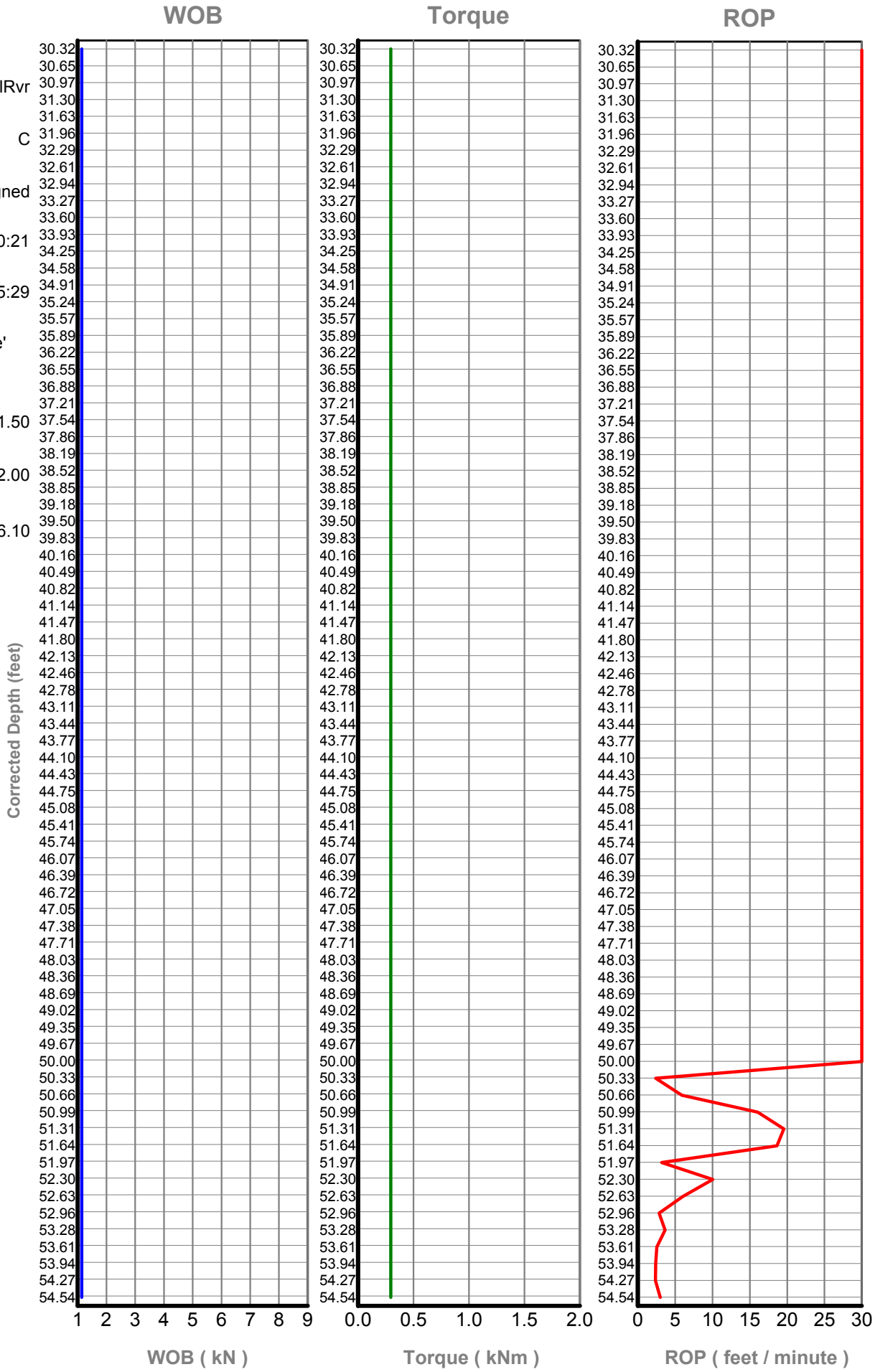
**End Date:**
5/1/2015 10:25:29

**Operator Note:**
'6.1 5.6 c Auto Complete'

**Northing:**
354,621.50

**Easting:**
233,082.00

**Tide (feet):**
6.10



## Hole: N22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:41:16 | 36.42 | 30.22 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 10:41:17 | 36.75 | 30.55 | 983 | 1.14 | 0.29 | 53.7 |
| 5/1/2015 10:41:17 | 37.07 | 30.87 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 10:41:17 | 37.40 | 31.20 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:41:18 | 37.73 | 31.53 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:41:18 | 38.06 | 31.86 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:41:18 | 38.39 | 32.19 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:19 | 38.71 | 32.51 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:19 | 39.04 | 32.84 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:19 | 39.37 | 33.17 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:20 | 39.70 | 33.50 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:20 | 40.03 | 33.83 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:20 | 40.35 | 34.15 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:21 | 40.68 | 34.48 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:21 | 41.01 | 34.81 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 10:41:21 | 41.34 | 35.14 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 10:41:22 | 41.67 | 35.47 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 10:41:22 | 41.99 | 35.79 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 10:41:22 | 42.32 | 36.12 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:23 | 42.65 | 36.45 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:23 | 42.98 | 36.78 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:24 | 43.31 | 37.11 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:24 | 43.64 | 37.44 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:24 | 43.96 | 37.76 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:25 | 44.29 | 38.09 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:25 | 44.62 | 38.42 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:41:25 | 44.95 | 38.75 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:26 | 45.28 | 39.08 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:26 | 45.60 | 39.40 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:26 | 45.93 | 39.73 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:27 | 46.26 | 40.06 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:27 | 46.59 | 40.39 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:27 | 46.92 | 40.72 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/1/2015 10:41:28 | 47.24 | 41.04 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:28 | 47.57 | 41.37 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:28 | 47.90 | 41.70 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 10:41:29 | 48.23 | 42.03 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 10:41:29 | 48.56 | 42.36 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 10:41:29 | 48.88 | 42.68 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:30 | 49.21 | 43.01 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:41:30 | 49.54 | 43.34 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:41:30 | 49.87 | 43.67 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/1/2015 10:41:31 | 50.20 | 44.00 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:41:31 | 50.53 | 44.33 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:41:31 | 50.85 | 44.65 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:41:32 | 51.18 | 44.98 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:41:32 | 51.51 | 45.31 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 10:41:32 | 51.84 | 45.64 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:41:33 | 52.17 | 45.97 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 10:41:33 | 52.49 | 46.29 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 10:41:33 | 52.82 | 46.62 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 10:41:34 | 53.15 | 46.95 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 10:41:34 | 53.48 | 47.28 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/1/2015 10:41:34 | 53.81 | 47.61 | 991 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 10:41:35 | 54.13 | 47.93 | 968 | 1.14 | 0.29 | 52.9 |
| 5/1/2015 10:41:36 | 54.46 | 48.26 | 951 | 1.14 | 0.29 | 52.0 |
| 5/1/2015 10:41:36 | 54.79 | 48.59 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 10:41:37 | 55.12 | 48.92 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 10:41:37 | 55.45 | 49.25 | 904 | 1.14 | 0.29 | 49.4 |
| 5/1/2015 10:41:37 | 55.77 | 49.57 | 887 | 1.14 | 0.29 | 48.5 |
| 5/1/2015 10:41:38 | 56.10 | 49.90 | 873 | 1.14 | 0.29 | 47.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:41:38 | 56.43 | 50.23 | 854 | 1.14 | 0.29 | 46.7 |
| 5/1/2015 | 10:41:39 | 56.76 | 50.56 | 823 | 1.14 | 0.29 | 45.0 |
| 5/1/2015 | 10:41:39 | 57.09 | 50.89 | 779 | 1.14 | 0.29 | 42.6 |
| 5/1/2015 | 10:41:40 | 57.41 | 51.21 | 742 | 1.14 | 0.29 | 40.6 |
| 5/1/2015 | 10:41:40 | 57.74 | 51.54 | 704 | 1.14 | 0.29 | 38.5 |
| 5/1/2015 | 10:41:41 | 58.07 | 51.87 | 662 | 1.14 | 0.29 | 36.2 |
| 5/1/2015 | 10:41:41 | 58.40 | 52.20 | 666 | 1.14 | 0.29 | 36.4 |
| 5/1/2015 | 10:41:42 | 58.73 | 52.53 | 669 | 1.14 | 0.29 | 36.6 |
| 5/1/2015 | 10:41:42 | 59.06 | 52.86 | 672 | 1.14 | 0.29 | 36.8 |
| 5/1/2015 | 10:41:43 | 59.38 | 53.18 | 675 | 1.14 | 0.29 | 36.9 |
| 5/1/2015 | 10:41:43 | 59.71 | 53.51 | 681 | 1.14 | 0.29 | 37.2 |
| 5/1/2015 | 10:41:44 | 60.04 | 53.84 | 669 | 1.14 | 0.29 | 36.6 |
| 5/1/2015 | 10:41:44 | 60.37 | 54.17 | 656 | 1.14 | 0.29 | 35.9 |
| 5/1/2015 | 10:41:45 | 60.70 | 54.50 | 654 | 1.14 | 0.29 | 35.8 |
| 5/1/2015 | 10:41:45 | 61.02 | 54.82 | 657 | 1.14 | 0.29 | 35.9 |
| 5/1/2015 | 10:41:46 | 61.35 | 55.15 | 672 | 1.14 | 0.29 | 36.7 |
| 5/1/2015 | 10:41:47 | 61.68 | 55.48 | 676 | 1.14 | 0.29 | 37.0 |
| 5/1/2015 | 10:41:47 | 61.73 | 55.53 | 676 | 1.14 | 0.29 | 37.0 |

## N22 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:40:10

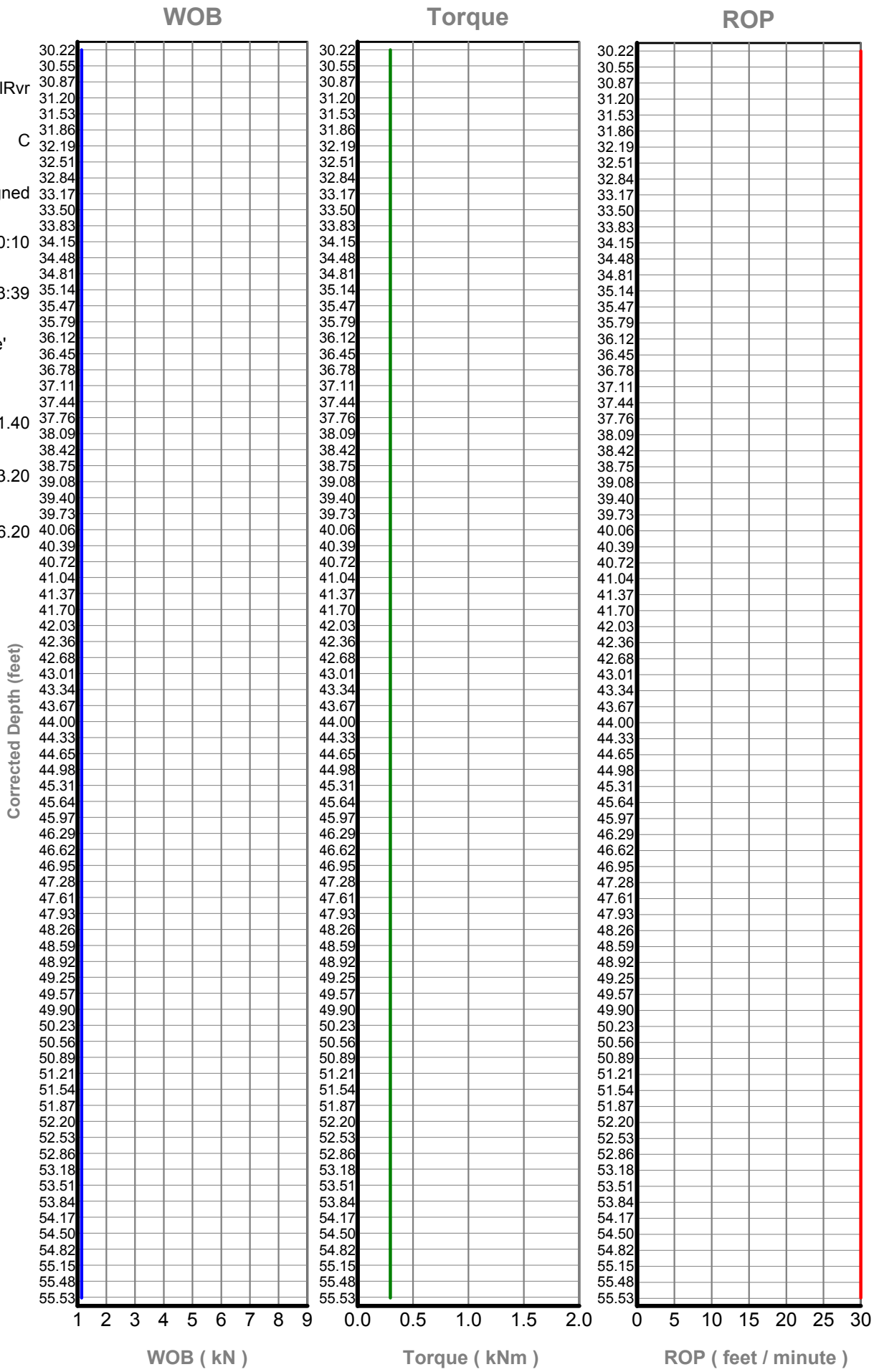
**End Date:**
5/1/2015 10:43:39

**Operator Note:**
'6.2 6.2 c Auto Complete'

**Northing:**
354,661.40

**Easting:**
233,143.20

**Tide (feet):**
6.20



## Hole: N23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:56:47 | 36.42 | 30.12 | 989 | 1.14 | 0.29 | 54.1 |
| 5/1/2015 10:56:47 | 36.75 | 30.45 | 976 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 10:56:48 | 37.07 | 30.77 | 976 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 10:56:48 | 37.40 | 31.10 | 976 | 1.14 | 0.29 | 53.3 |
| 5/1/2015 10:56:48 | 37.73 | 31.43 | 990 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 10:56:49 | 38.06 | 31.76 | 990 | 1.14 | 0.29 | 54.2 |
| 5/1/2015 10:56:49 | 38.39 | 32.09 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 10:56:49 | 38.71 | 32.41 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:56:50 | 39.04 | 32.74 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:56:50 | 39.37 | 33.07 | 1,005 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 10:56:50 | 39.70 | 33.40 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:56:51 | 40.03 | 33.73 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:56:51 | 40.35 | 34.05 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/1/2015 10:56:51 | 40.68 | 34.38 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:56:52 | 41.01 | 34.71 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/1/2015 10:56:52 | 41.34 | 35.04 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:56:52 | 41.67 | 35.37 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:56:53 | 41.99 | 35.69 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:56:53 | 42.32 | 36.02 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:56:53 | 42.65 | 36.35 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 10:56:54 | 42.98 | 36.68 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 10:56:54 | 43.31 | 37.01 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/1/2015 10:56:54 | 43.64 | 37.34 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:56:55 | 43.96 | 37.66 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:56:55 | 44.29 | 37.99 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/1/2015 10:56:56 | 44.62 | 38.32 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 10:56:56 | 44.95 | 38.65 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 10:56:56 | 45.28 | 38.98 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:56:57 | 45.60 | 39.30 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:56:57 | 45.93 | 39.63 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/1/2015 10:56:57 | 46.26 | 39.96 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:56:58 | 46.59 | 40.29 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:56:58 | 46.92 | 40.62 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:56:58 | 47.24 | 40.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:56:59 | 47.57 | 41.27 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:56:59 | 47.90 | 41.60 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:56:59 | 48.23 | 41.93 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:57:00 | 48.56 | 42.26 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:57:00 | 48.88 | 42.58 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 10:57:00 | 49.21 | 42.91 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:57:01 | 49.54 | 43.24 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:57:01 | 49.87 | 43.57 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:57:01 | 50.20 | 43.90 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/1/2015 10:57:02 | 50.53 | 44.23 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:57:02 | 50.85 | 44.55 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:57:02 | 51.18 | 44.88 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 10:57:03 | 51.51 | 45.21 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:57:03 | 51.84 | 45.54 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 10:57:03 | 52.17 | 45.87 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 10:57:04 | 52.49 | 46.19 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:57:04 | 52.82 | 46.52 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/1/2015 10:57:04 | 53.15 | 46.85 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 10:57:05 | 53.48 | 47.18 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 10:57:05 | 53.81 | 47.51 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/1/2015 10:57:05 | 54.13 | 47.83 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 10:57:06 | 54.46 | 48.16 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 10:57:06 | 54.79 | 48.49 | 993 | 1.14 | 0.29 | 54.3 |
| 5/1/2015 10:57:06 | 55.12 | 48.82 | 977 | 1.14 | 0.29 | 53.4 |
| 5/1/2015 10:57:18 | 55.45 | 49.15 | 18 | 1.14 | 0.29 | 1.0 |
| 5/1/2015 10:57:18 | 55.77 | 49.47 | 155 | 1.14 | 0.29 | 8.5 |
| 5/1/2015 10:57:19 | 56.10 | 49.80 | 299 | 1.14 | 0.29 | 16.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:57:19 | 56.43 | 50.13 | 443 | 1.14 | 0.29 | 24.2 |
| 5/1/2015 | 10:57:20 | 56.76 | 50.46 | 583 | 1.14 | 0.29 | 31.9 |
| 5/1/2015 | 10:57:21 | 57.09 | 50.79 | 704 | 1.14 | 0.29 | 38.5 |
| 5/1/2015 | 10:57:23 | 57.41 | 51.11 | 78 | 1.14 | 0.29 | 4.2 |
| 5/1/2015 | 10:57:24 | 57.74 | 51.44 | 129 | 1.14 | 0.29 | 7.0 |
| 5/1/2015 | 10:57:24 | 58.07 | 51.77 | 276 | 1.14 | 0.29 | 15.1 |
| 5/1/2015 | 10:57:27 | 58.40 | 52.10 | 193 | 1.14 | 0.29 | 10.5 |
| 5/1/2015 | 10:57:27 | 58.73 | 52.43 | 157 | 1.14 | 0.29 | 8.6 |
| 5/1/2015 | 10:57:28 | 59.06 | 52.76 | 253 | 1.14 | 0.29 | 13.8 |
| 5/1/2015 | 10:57:28 | 59.38 | 53.08 | 394 | 1.14 | 0.29 | 21.5 |
| 5/1/2015 | 10:57:29 | 59.71 | 53.41 | 528 | 1.14 | 0.29 | 28.9 |
| 5/1/2015 | 10:57:31 | 60.04 | 53.74 | 442 | 1.14 | 0.29 | 24.2 |
| 5/1/2015 | 10:57:31 | 60.37 | 54.07 | 404 | 1.14 | 0.29 | 22.1 |
| 5/1/2015 | 10:57:31 | 60.70 | 54.40 | 404 | 1.14 | 0.29 | 22.1 |
| 5/1/2015 | 10:57:32 | 61.02 | 54.72 | 411 | 1.14 | 0.29 | 22.5 |
| 5/1/2015 | 10:57:33 | 61.35 | 55.05 | 410 | 1.14 | 0.29 | 22.4 |

## N23 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:55:35

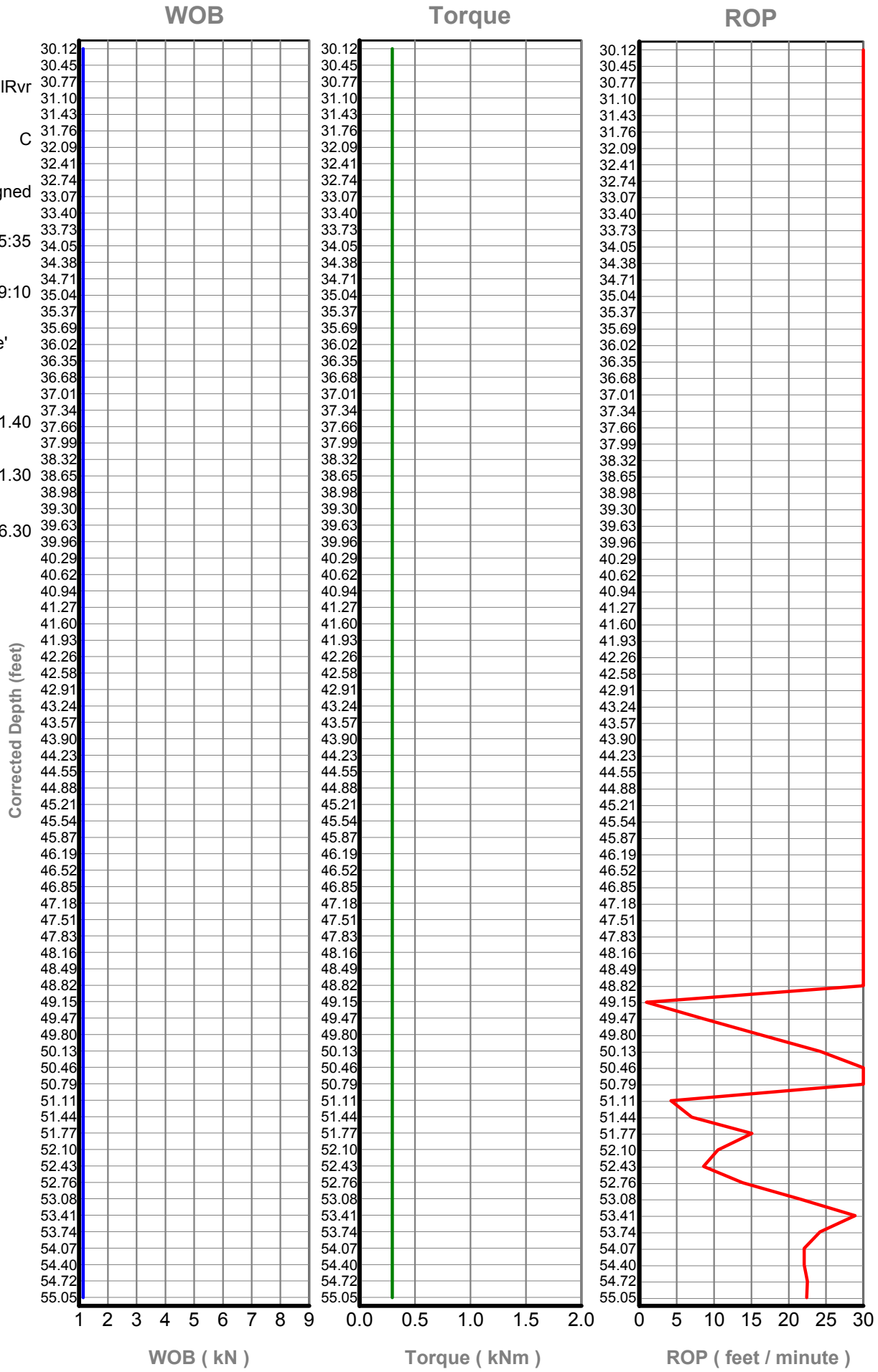
**End Date:**
5/1/2015 10:59:10

**Operator Note:**
'6.3 6.3 c Auto Complete'

**Northing:**
354,701.40

**Easting:**
233,211.30

**Tide (feet):**
6.30



## Hole: N24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 11:11:49 | 36.42 | 30.02 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 11:11:49 | 36.75 | 30.35 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 11:11:49 | 37.07 | 30.67 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:11:50 | 37.40 | 31.00 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:11:50 | 37.73 | 31.33 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:11:50 | 38.06 | 31.66 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/1/2015 11:11:51 | 38.39 | 31.99 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 11:11:51 | 38.71 | 32.31 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/1/2015 11:11:51 | 39.04 | 32.64 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:11:52 | 39.37 | 32.97 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 11:11:52 | 39.70 | 33.30 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/1/2015 11:11:52 | 40.03 | 33.63 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 11:11:53 | 40.35 | 33.95 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 11:11:53 | 40.68 | 34.28 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/1/2015 11:11:53 | 41.01 | 34.61 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 11:11:54 | 41.34 | 34.94 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 11:11:54 | 41.67 | 35.27 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:55 | 41.99 | 35.59 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 11:11:55 | 42.32 | 35.92 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/1/2015 11:11:55 | 42.65 | 36.25 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:56 | 42.98 | 36.58 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 11:11:56 | 43.31 | 36.91 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 11:11:56 | 43.64 | 37.24 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:57 | 43.96 | 37.56 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:57 | 44.29 | 37.89 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:57 | 44.62 | 38.22 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 11:11:58 | 44.95 | 38.55 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:58 | 45.28 | 38.88 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:58 | 45.60 | 39.20 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 11:11:59 | 45.93 | 39.53 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:59 | 46.26 | 39.86 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:11:59 | 46.59 | 40.19 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/1/2015 11:12:00 | 46.92 | 40.52 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 11:12:00 | 47.24 | 40.84 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/1/2015 11:12:00 | 47.57 | 41.17 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:12:01 | 47.90 | 41.50 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/1/2015 11:12:01 | 48.23 | 41.83 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/1/2015 11:12:01 | 48.56 | 42.16 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 11:12:02 | 48.88 | 42.48 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 11:12:02 | 49.21 | 42.81 | 1,052 | 1.14 | 0.29 | 57.6 |
| 5/1/2015 11:12:02 | 49.54 | 43.14 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 11:12:03 | 49.87 | 43.47 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/1/2015 11:12:03 | 50.20 | 43.80 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/1/2015 11:12:03 | 50.53 | 44.13 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 11:12:04 | 50.85 | 44.45 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/1/2015 11:12:04 | 51.18 | 44.78 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/1/2015 11:12:04 | 51.51 | 45.11 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 11:12:05 | 51.84 | 45.44 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/1/2015 11:12:05 | 52.17 | 45.77 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/1/2015 11:12:06 | 52.49 | 46.09 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/1/2015 11:12:06 | 52.82 | 46.42 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 11:12:07 | 53.15 | 46.75 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/1/2015 11:12:07 | 53.48 | 47.08 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:12:07 | 53.81 | 47.41 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:12:08 | 54.13 | 47.73 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/1/2015 11:12:08 | 54.46 | 48.06 | 997 | 1.14 | 0.29 | 54.5 |
| 5/1/2015 11:12:08 | 54.79 | 48.39 | 971 | 1.14 | 0.29 | 53.1 |
| 5/1/2015 11:12:09 | 55.12 | 48.72 | 945 | 1.14 | 0.29 | 51.7 |
| 5/1/2015 11:12:09 | 55.45 | 49.05 | 945 | 1.14 | 0.29 | 51.7 |
| 5/1/2015 11:12:09 | 55.77 | 49.37 | 919 | 1.14 | 0.29 | 50.3 |
| 5/1/2015 11:12:13 | 56.10 | 49.70 | 3 | 1.14 | 0.29 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 11:12:14 | 56.43 | 50.03 | 44 | 1.14 | 0.29 | 2.4 |
| 5/1/2015 | 11:12:14 | 56.76 | 50.36 | 187 | 1.14 | 0.29 | 10.2 |
| 5/1/2015 | 11:12:15 | 57.09 | 50.69 | 340 | 1.14 | 0.29 | 18.6 |
| 5/1/2015 | 11:12:15 | 57.41 | 51.01 | 488 | 1.14 | 0.29 | 26.7 |
| 5/1/2015 | 11:12:16 | 57.74 | 51.34 | 639 | 1.14 | 0.29 | 34.9 |
| 5/1/2015 | 11:12:16 | 58.07 | 51.67 | 740 | 1.14 | 0.29 | 40.5 |
| 5/1/2015 | 11:12:17 | 58.40 | 52.00 | 743 | 1.14 | 0.29 | 40.6 |
| 5/1/2015 | 11:12:18 | 58.73 | 52.33 | 748 | 1.14 | 0.29 | 40.9 |
| 5/1/2015 | 11:12:18 | 59.06 | 52.66 | 745 | 1.14 | 0.29 | 40.7 |
| 5/1/2015 | 11:12:20 | 59.38 | 52.98 | 471 | 1.14 | 0.29 | 25.8 |
| 5/1/2015 | 11:12:20 | 59.71 | 53.31 | 443 | 1.14 | 0.29 | 24.2 |
| 5/1/2015 | 11:12:21 | 60.04 | 53.64 | 434 | 1.14 | 0.29 | 23.7 |
| 5/1/2015 | 11:12:21 | 60.37 | 53.97 | 454 | 1.14 | 0.29 | 24.8 |
| 5/1/2015 | 11:12:22 | 60.70 | 54.30 | 454 | 1.14 | 0.29 | 24.8 |
| 5/1/2015 | 11:12:22 | 61.02 | 54.62 | 601 | 1.14 | 0.29 | 32.9 |
| 5/1/2015 | 11:12:23 | 61.35 | 54.95 | 686 | 1.14 | 0.29 | 37.5 |
| 5/1/2015 | 11:12:23 | 61.68 | 55.28 | 694 | 1.14 | 0.29 | 37.9 |
| 5/1/2015 | 11:12:24 | 62.01 | 55.61 | 695 | 1.14 | 0.29 | 38.0 |
| 5/1/2015 | 11:12:24 | 62.34 | 55.94 | 706 | 1.14 | 0.29 | 38.6 |
| 5/1/2015 | 11:12:25 | 62.66 | 56.26 | 680 | 1.14 | 0.29 | 37.2 |
| 5/1/2015 | 11:12:25 | 62.77 | 56.37 | 680 | 1.14 | 0.29 | 37.2 |

## N24 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/1/2015 11:10:40

**End Date:**
5/1/2015 11:13:36

**Operator Note:**
'6.4 6.4 c Auto Complete'

**Northing:**
354,735.20

**Easting:**
233,269.20

**Tide (feet):**
6.40



## Hole: N3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 9:49:41 | 35.76 | 30.06 | 821 | 1.27 | 0.18 | 44.9 |
| 5/1/2015 9:49:41 | 36.09 | 30.39 | 818 | 1.28 | 0.18 | 44.7 |
| 5/1/2015 9:49:42 | 36.42 | 30.72 | 815 | 1.29 | 0.18 | 44.6 |
| 5/1/2015 9:49:43 | 36.75 | 31.05 | 815 | 1.29 | 0.18 | 44.6 |
| 5/1/2015 9:49:43 | 37.07 | 31.37 | 812 | 1.28 | 0.18 | 44.4 |
| 5/1/2015 9:49:44 | 37.40 | 31.70 | 812 | 1.30 | 0.18 | 44.4 |
| 5/1/2015 9:49:44 | 37.73 | 32.03 | 812 | 1.30 | 0.18 | 44.4 |
| 5/1/2015 9:49:44 | 38.06 | 32.36 | 810 | 1.28 | 0.18 | 44.3 |
| 5/1/2015 9:49:45 | 38.39 | 32.69 | 790 | 1.28 | 0.18 | 43.2 |
| 5/1/2015 9:49:45 | 38.71 | 33.01 | 790 | 1.29 | 0.19 | 43.2 |
| 5/1/2015 9:49:46 | 39.04 | 33.34 | 805 | 1.29 | 0.18 | 44.0 |
| 5/1/2015 9:49:46 | 39.37 | 33.67 | 810 | 1.28 | 0.18 | 44.3 |
| 5/1/2015 9:49:47 | 39.70 | 34.00 | 810 | 1.28 | 0.18 | 44.3 |
| 5/1/2015 9:49:47 | 40.03 | 34.33 | 816 | 1.28 | 0.18 | 44.6 |
| 5/1/2015 9:49:47 | 40.35 | 34.65 | 810 | 1.28 | 0.18 | 44.3 |
| 5/1/2015 9:49:48 | 40.68 | 34.98 | 835 | 1.28 | 0.18 | 45.7 |
| 5/1/2015 9:49:48 | 41.01 | 35.31 | 802 | 1.28 | 0.19 | 43.9 |
| 5/1/2015 9:49:49 | 41.34 | 35.64 | 802 | 1.29 | 0.19 | 43.9 |
| 5/1/2015 9:49:49 | 41.67 | 35.97 | 802 | 1.29 | 0.19 | 43.9 |
| 5/1/2015 9:49:49 | 41.99 | 36.29 | 809 | 1.30 | 0.18 | 44.2 |
| 5/1/2015 9:49:50 | 42.32 | 36.62 | 809 | 1.28 | 0.19 | 44.2 |
| 5/1/2015 9:49:50 | 42.65 | 36.95 | 811 | 1.28 | 0.19 | 44.3 |
| 5/1/2015 9:49:51 | 42.98 | 37.28 | 806 | 1.29 | 0.19 | 44.1 |
| 5/1/2015 9:49:51 | 43.31 | 37.61 | 827 | 1.28 | 0.19 | 45.2 |
| 5/1/2015 9:49:52 | 43.64 | 37.94 | 827 | 1.28 | 0.19 | 45.2 |
| 5/1/2015 9:49:52 | 43.96 | 38.26 | 818 | 1.29 | 0.19 | 44.7 |
| 5/1/2015 9:49:53 | 44.29 | 38.59 | 806 | 1.29 | 0.19 | 44.1 |
| 5/1/2015 9:49:53 | 44.62 | 38.92 | 806 | 1.28 | 0.19 | 44.1 |
| 5/1/2015 9:49:54 | 44.95 | 39.25 | 810 | 1.29 | 0.19 | 44.3 |
| 5/1/2015 9:49:54 | 45.28 | 39.58 | 818 | 1.28 | 0.19 | 44.8 |
| 5/1/2015 9:49:55 | 45.60 | 39.90 | 818 | 1.28 | 0.19 | 44.8 |
| 5/1/2015 9:49:55 | 45.93 | 40.23 | 810 | 1.28 | 0.18 | 44.3 |
| 5/1/2015 9:49:55 | 46.26 | 40.56 | 805 | 1.29 | 0.18 | 44.0 |
| 5/1/2015 9:49:56 | 46.59 | 40.89 | 821 | 1.29 | 0.19 | 44.9 |
| 5/1/2015 9:49:56 | 46.92 | 41.22 | 815 | 1.28 | 0.19 | 44.6 |
| 5/1/2015 9:49:57 | 47.24 | 41.54 | 807 | 1.30 | 0.19 | 44.1 |
| 5/1/2015 9:49:57 | 47.57 | 41.87 | 809 | 1.29 | 0.19 | 44.3 |
| 5/1/2015 9:49:58 | 47.90 | 42.20 | 809 | 1.29 | 0.19 | 44.3 |
| 5/1/2015 9:49:58 | 48.23 | 42.53 | 815 | 1.29 | 0.19 | 44.6 |
| 5/1/2015 9:49:58 | 48.56 | 42.86 | 812 | 1.29 | 0.19 | 44.4 |
| 5/1/2015 9:49:59 | 48.88 | 43.18 | 809 | 1.30 | 0.19 | 44.3 |
| 5/1/2015 9:49:59 | 49.21 | 43.51 | 809 | 1.27 | 0.19 | 44.3 |
| 5/1/2015 9:50:00 | 49.54 | 43.84 | 815 | 1.28 | 0.18 | 44.6 |
| 5/1/2015 9:50:00 | 49.87 | 44.17 | 815 | 1.28 | 0.18 | 44.6 |
| 5/1/2015 9:50:00 | 50.20 | 44.50 | 812 | 1.32 | 0.18 | 44.4 |
| 5/1/2015 9:50:01 | 50.53 | 44.83 | 791 | 1.36 | 0.19 | 43.2 |
| 5/1/2015 9:50:20 | 50.85 | 45.15 | 59 | 1.28 | 0.94 | 3.2 |
| 5/1/2015 9:50:21 | 51.18 | 45.48 | 165 | 1.26 | 0.96 | 9.0 |
| 5/1/2015 9:50:22 | 51.51 | 45.81 | 341 | 1.26 | 1.22 | 18.7 |
| 5/1/2015 9:50:22 | 51.84 | 46.14 | 421 | 1.26 | 1.16 | 23.0 |
| 5/1/2015 9:50:24 | 52.17 | 46.47 | 439 | 1.26 | 1.13 | 24.0 |
| 5/1/2015 9:50:25 | 52.49 | 46.79 | 413 | 1.26 | 1.17 | 22.6 |
| 5/1/2015 9:50:26 | 52.82 | 47.12 | 396 | 1.26 | 1.16 | 21.6 |
| 5/1/2015 9:50:26 | 53.15 | 47.45 | 381 | 1.24 | 1.28 | 20.9 |
| 5/1/2015 9:50:27 | 53.48 | 47.78 | 405 | 1.24 | 0.98 | 22.1 |
| 5/1/2015 9:50:28 | 53.81 | 48.11 | 428 | 1.24 | 0.89 | 23.4 |
| 5/1/2015 9:50:28 | 54.13 | 48.43 | 463 | 1.24 | 1.00 | 25.3 |
| 5/1/2015 9:50:29 | 54.46 | 48.76 | 512 | 1.26 | 1.03 | 28.0 |
| 5/1/2015 9:50:30 | 54.79 | 49.09 | 503 | 1.25 | 1.05 | 27.5 |
| 5/1/2015 9:50:31 | 55.12 | 49.42 | 462 | 1.28 | 1.20 | 25.3 |
| 5/1/2015 9:50:32 | 55.45 | 49.75 | 334 | 1.28 | 1.20 | 18.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 9:50:34 | 55.77 | 50.07 | 245 | 1.27 | 1.25 | 13.4 |
| 5/1/2015 | 9:50:36 | 56.10 | 50.40 | 214 | 1.27 | 1.40 | 11.7 |
| 5/1/2015 | 9:50:41 | 56.43 | 50.73 | 47 | 1.29 | 1.55 | 2.6 |
| 5/1/2015 | 9:50:46 | 56.76 | 51.06 | 83 | 0.56 | 1.17 | 4.5 |
| 5/1/2015 | 9:50:49 | 57.09 | 51.39 | 110 | 1.18 | 1.02 | 6.0 |
| 5/1/2015 | 9:50:57 | 57.41 | 51.71 | 42 | 1.16 | 1.04 | 2.3 |
| 5/1/2015 | 9:51:07 | 57.74 | 52.04 | 35 | 1.26 | 1.00 | 1.9 |
| 5/1/2015 | 9:51:19 | 58.07 | 52.37 | 32 | 1.32 | 1.01 | 1.7 |
| 5/1/2015 | 9:51:31 | 58.38 | 52.68 | 26 | 1.25 | 1.08 | 1.4 |

## N3 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 9:48:03

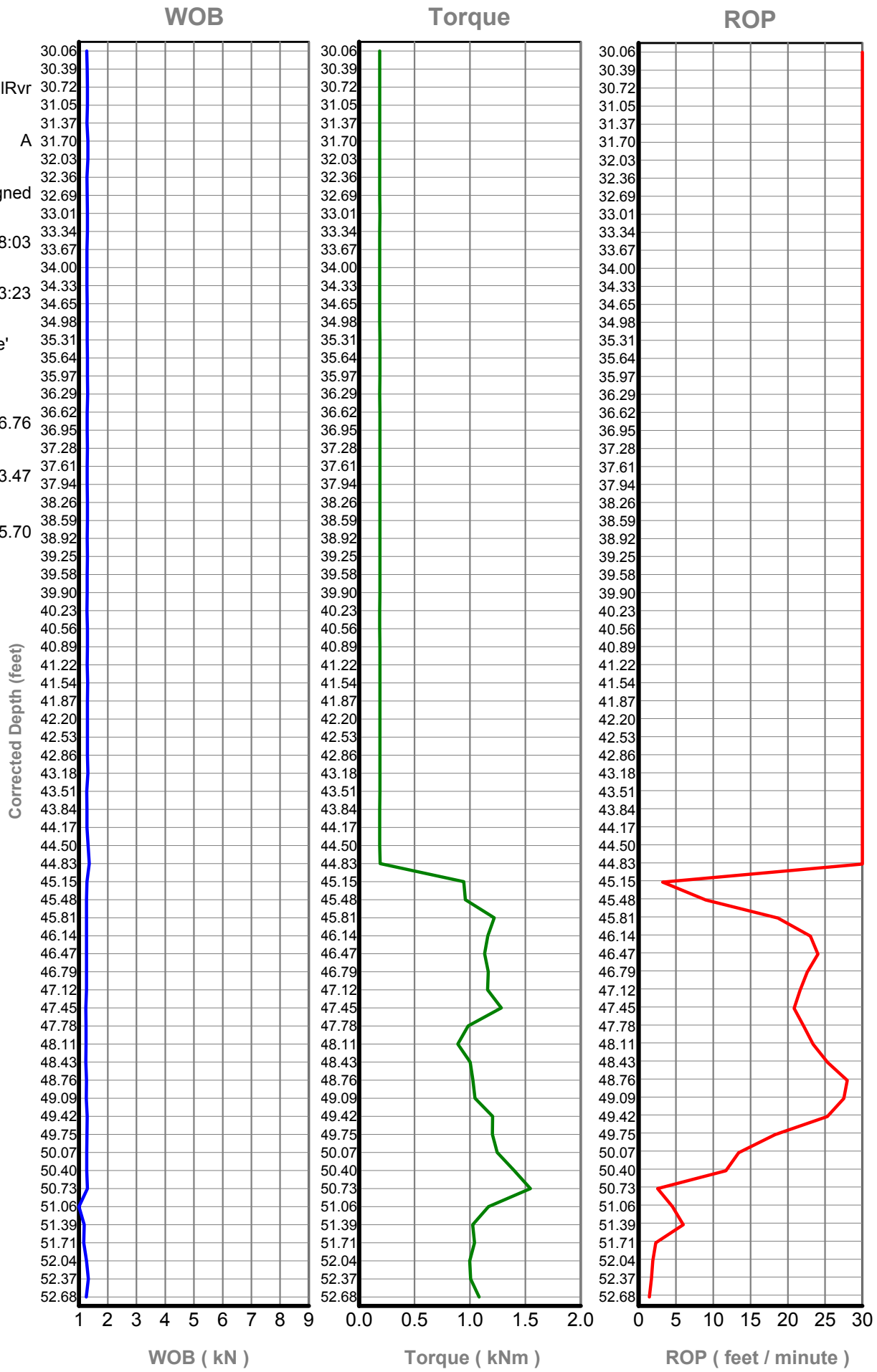
**End Date:**
5/1/2015 9:53:23

**Operator Note:**
'5.7 5.6 a Auto Complete'

**Northing:**
354,666.76

**Easting:**
232,873.47

**Tide (feet):**
5.70



## Hole: N4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:08:10 | 36.09 | 30.19 | 854 | 1.25 | 0.17 | 46.7 |
| 5/1/2015 10:08:10 | 36.42 | 30.52 | 851 | 1.26 | 0.17 | 46.6 |
| 5/1/2015 10:08:11 | 36.75 | 30.85 | 857 | 1.28 | 0.17 | 46.8 |
| 5/1/2015 10:08:11 | 37.07 | 31.17 | 864 | 1.22 | 0.17 | 47.2 |
| 5/1/2015 10:08:12 | 37.40 | 31.50 | 864 | 1.22 | 0.17 | 47.2 |
| 5/1/2015 10:08:12 | 37.73 | 31.83 | 856 | 1.25 | 0.17 | 46.8 |
| 5/1/2015 10:08:12 | 38.06 | 32.16 | 836 | 1.25 | 0.17 | 45.7 |
| 5/1/2015 10:08:13 | 38.39 | 32.49 | 836 | 1.25 | 0.17 | 45.7 |
| 5/1/2015 10:08:13 | 38.71 | 32.81 | 849 | 1.26 | 0.17 | 46.4 |
| 5/1/2015 10:08:14 | 39.04 | 33.14 | 849 | 1.26 | 0.17 | 46.4 |
| 5/1/2015 10:08:14 | 39.37 | 33.47 | 849 | 1.24 | 0.17 | 46.4 |
| 5/1/2015 10:08:14 | 39.70 | 33.80 | 846 | 1.25 | 0.17 | 46.3 |
| 5/1/2015 10:08:15 | 40.03 | 34.13 | 852 | 1.25 | 0.18 | 46.6 |
| 5/1/2015 10:08:16 | 40.35 | 34.45 | 851 | 1.24 | 0.17 | 46.6 |
| 5/1/2015 10:08:16 | 40.68 | 34.78 | 851 | 1.24 | 0.17 | 46.6 |
| 5/1/2015 10:08:16 | 41.01 | 35.11 | 860 | 1.25 | 0.17 | 47.0 |
| 5/1/2015 10:08:17 | 41.34 | 35.44 | 840 | 1.24 | 0.17 | 45.9 |
| 5/1/2015 10:08:17 | 41.67 | 35.77 | 829 | 1.25 | 0.17 | 45.3 |
| 5/1/2015 10:08:18 | 41.99 | 36.09 | 829 | 1.25 | 0.17 | 45.3 |
| 5/1/2015 10:08:18 | 42.32 | 36.42 | 829 | 1.25 | 0.17 | 45.3 |
| 5/1/2015 10:08:18 | 42.65 | 36.75 | 837 | 1.26 | 0.17 | 45.8 |
| 5/1/2015 10:08:19 | 42.98 | 37.08 | 835 | 1.25 | 0.17 | 45.7 |
| 5/1/2015 10:08:19 | 43.31 | 37.41 | 838 | 1.24 | 0.17 | 45.8 |
| 5/1/2015 10:08:20 | 43.64 | 37.74 | 838 | 1.25 | 0.17 | 45.8 |
| 5/1/2015 10:08:20 | 43.96 | 38.06 | 838 | 1.25 | 0.17 | 45.8 |
| 5/1/2015 10:08:20 | 44.29 | 38.39 | 858 | 1.25 | 0.17 | 46.9 |
| 5/1/2015 10:08:21 | 44.62 | 38.72 | 851 | 1.25 | 0.17 | 46.5 |
| 5/1/2015 10:08:21 | 44.95 | 39.05 | 845 | 1.27 | 0.17 | 46.2 |
| 5/1/2015 10:08:22 | 45.28 | 39.38 | 858 | 1.27 | 0.17 | 46.9 |
| 5/1/2015 10:08:22 | 45.60 | 39.70 | 858 | 1.27 | 0.17 | 46.9 |
| 5/1/2015 10:08:22 | 45.93 | 40.03 | 850 | 1.24 | 0.17 | 46.5 |
| 5/1/2015 10:08:23 | 46.26 | 40.36 | 841 | 1.26 | 0.17 | 46.0 |
| 5/1/2015 10:08:23 | 46.59 | 40.69 | 840 | 1.25 | 0.17 | 46.0 |
| 5/1/2015 10:08:24 | 46.92 | 41.02 | 838 | 1.26 | 0.17 | 45.8 |
| 5/1/2015 10:08:25 | 47.24 | 41.34 | 838 | 1.26 | 0.17 | 45.8 |
| 5/1/2015 10:08:24 | 47.57 | 41.67 | 820 | 1.26 | 0.17 | 44.8 |
| 5/1/2015 10:08:25 | 47.90 | 42.00 | 843 | 1.25 | 0.17 | 46.1 |
| 5/1/2015 10:08:25 | 48.23 | 42.33 | 835 | 1.26 | 0.17 | 45.7 |
| 5/1/2015 10:08:26 | 48.56 | 42.66 | 835 | 1.24 | 0.17 | 45.7 |
| 5/1/2015 10:08:27 | 48.88 | 42.98 | 856 | 1.25 | 0.17 | 46.8 |
| 5/1/2015 10:08:27 | 49.21 | 43.31 | 856 | 1.25 | 0.17 | 46.8 |
| 5/1/2015 10:08:27 | 49.54 | 43.64 | 861 | 1.25 | 0.17 | 47.1 |
| 5/1/2015 10:08:28 | 49.87 | 43.97 | 845 | 1.26 | 0.17 | 46.2 |
| 5/1/2015 10:08:28 | 50.20 | 44.30 | 845 | 1.25 | 0.17 | 46.2 |
| 5/1/2015 10:08:29 | 50.53 | 44.63 | 850 | 1.33 | 0.18 | 46.5 |
| 5/1/2015 10:08:29 | 50.85 | 44.95 | 813 | 1.71 | 0.17 | 44.4 |
| 5/1/2015 10:08:43 | 51.18 | 45.28 | 17 | 1.23 | 1.27 | 0.9 |
| 5/1/2015 10:08:46 | 51.51 | 45.61 | 138 | 1.28 | 1.13 | 7.5 |
| 5/1/2015 10:08:48 | 51.84 | 45.94 | 152 | 1.22 | 1.25 | 8.3 |
| 5/1/2015 10:08:50 | 52.17 | 46.27 | 216 | 1.23 | 1.33 | 11.8 |
| 5/1/2015 10:08:51 | 52.49 | 46.59 | 225 | 1.22 | 1.13 | 12.3 |
| 5/1/2015 10:08:55 | 52.82 | 46.92 | 56 | 1.17 | 1.25 | 3.1 |
| 5/1/2015 10:08:59 | 53.15 | 47.25 | 65 | 1.19 | 0.76 | 3.5 |
| 5/1/2015 10:09:00 | 53.48 | 47.58 | 91 | 1.17 | 1.20 | 5.0 |
| 5/1/2015 10:09:02 | 53.81 | 47.91 | 197 | 1.19 | 1.02 | 10.7 |
| 5/1/2015 10:09:04 | 54.13 | 48.23 | 214 | 0.59 | 1.01 | 11.7 |
| 5/1/2015 10:09:06 | 54.46 | 48.56 | 187 | 1.52 | 1.02 | 10.2 |
| 5/1/2015 10:09:08 | 54.79 | 48.89 | 151 | 1.19 | 1.28 | 8.3 |
| 5/1/2015 10:09:11 | 55.12 | 49.22 | 167 | 1.11 | 1.07 | 9.2 |
| 5/1/2015 10:09:12 | 55.45 | 49.55 | 186 | 1.25 | 1.30 | 10.2 |
| 5/1/2015 10:09:14 | 55.77 | 49.87 | 193 | 1.16 | 1.26 | 10.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:09:20 | 56.10 | 50.20 | 69 | 1.20 | 1.21 | 3.8 |
| 5/1/2015 | 10:09:25 | 56.43 | 50.53 | 69 | 1.24 | 1.47 | 3.8 |
| 5/1/2015 | 10:09:30 | 56.76 | 50.86 | 73 | 1.20 | 1.55 | 4.0 |
| 5/1/2015 | 10:09:35 | 57.09 | 51.19 | 72 | 1.09 | 1.53 | 4.0 |
| 5/1/2015 | 10:09:39 | 57.41 | 51.51 | 79 | 1.14 | 1.68 | 4.3 |
| 5/1/2015 | 10:09:44 | 57.74 | 51.84 | 85 | 1.21 | 1.22 | 4.7 |
| 5/1/2015 | 10:09:49 | 58.07 | 52.17 | 56 | 1.11 | 1.08 | 3.0 |
| 5/1/2015 | 10:09:57 | 58.40 | 52.50 | 44 | 1.09 | 1.00 | 2.4 |
| 5/1/2015 | 10:10:05 | 58.73 | 52.83 | 40 | 1.19 | 1.06 | 2.2 |
| 5/1/2015 | 10:10:08 | 58.84 | 52.94 | 40 | 0.70 | 1.44 | 2.2 |

## N4 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:06:37

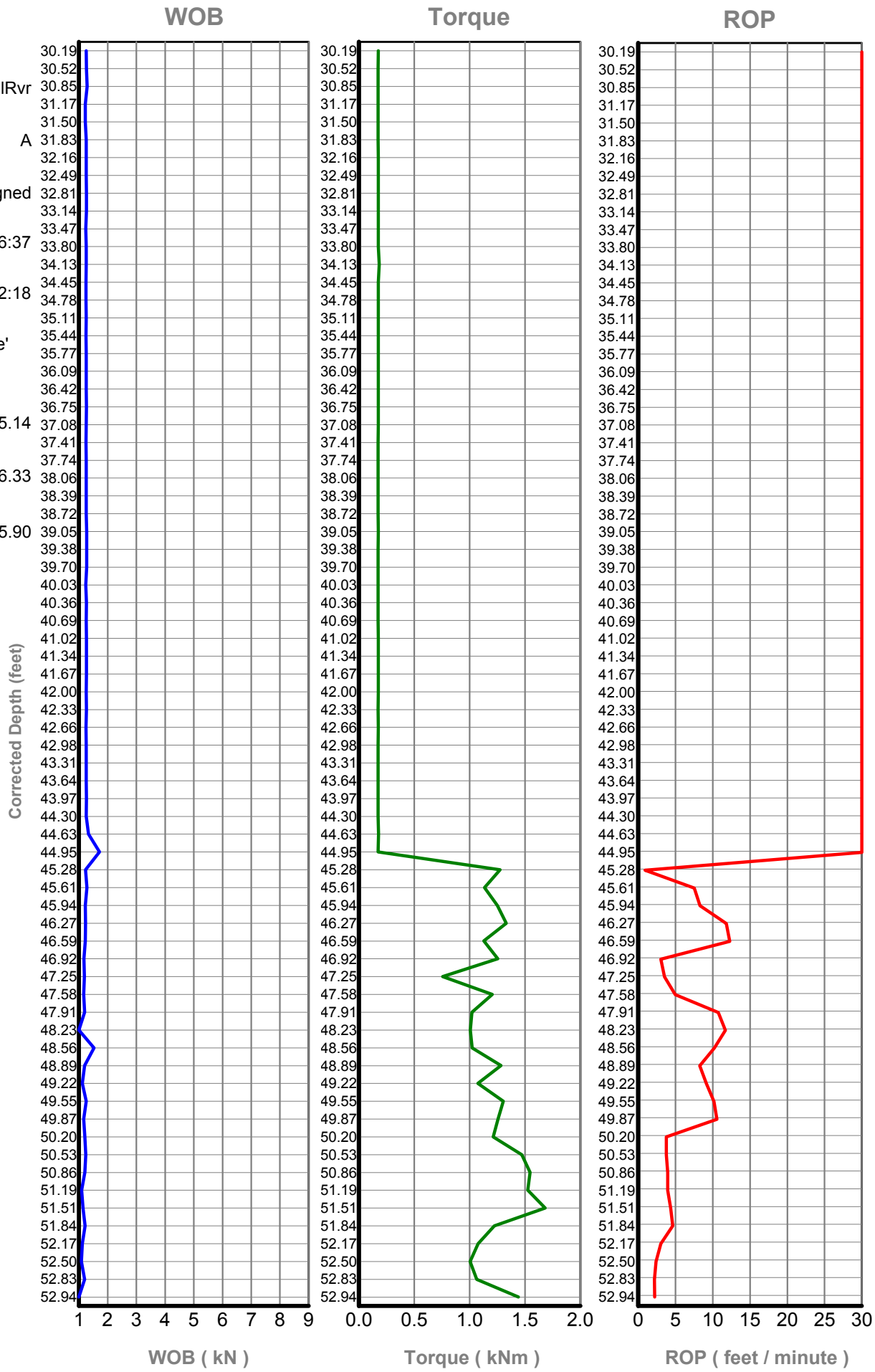
**End Date:**
5/1/2015 10:12:18

**Operator Note:**
'5.9 5.8 a Auto Complete'

**Northing:**
354,705.14

**Easting:**
232,936.33

**Tide (feet):**
5.90



## Hole: N5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:22:52 | 36.42 | 30.32 | 859 | 1.21 | 0.17 | 47.0 |
| 5/1/2015 10:22:53 | 36.75 | 30.65 | 867 | 1.21 | 0.17 | 47.4 |
| 5/1/2015 10:22:53 | 37.07 | 30.97 | 867 | 1.18 | 0.17 | 47.4 |
| 5/1/2015 10:22:54 | 37.40 | 31.30 | 867 | 1.20 | 0.17 | 47.4 |
| 5/1/2015 10:22:54 | 37.73 | 31.63 | 867 | 1.20 | 0.17 | 47.4 |
| 5/1/2015 10:22:54 | 38.06 | 31.96 | 858 | 1.21 | 0.17 | 46.9 |
| 5/1/2015 10:22:55 | 38.39 | 32.29 | 871 | 1.19 | 0.17 | 47.6 |
| 5/1/2015 10:22:55 | 38.71 | 32.61 | 868 | 1.20 | 0.17 | 47.5 |
| 5/1/2015 10:22:56 | 39.04 | 32.94 | 868 | 1.20 | 0.17 | 47.5 |
| 5/1/2015 10:22:56 | 39.37 | 33.27 | 868 | 1.21 | 0.17 | 47.5 |
| 5/1/2015 10:22:56 | 39.70 | 33.60 | 863 | 1.21 | 0.17 | 47.2 |
| 5/1/2015 10:22:57 | 40.03 | 33.93 | 881 | 1.21 | 0.17 | 48.2 |
| 5/1/2015 10:22:57 | 40.35 | 34.25 | 867 | 1.19 | 0.17 | 47.4 |
| 5/1/2015 10:22:58 | 40.68 | 34.58 | 867 | 1.19 | 0.17 | 47.4 |
| 5/1/2015 10:22:58 | 41.01 | 34.91 | 867 | 1.20 | 0.17 | 47.4 |
| 5/1/2015 10:22:58 | 41.34 | 35.24 | 859 | 1.20 | 0.17 | 47.0 |
| 5/1/2015 10:22:59 | 41.67 | 35.57 | 865 | 1.20 | 0.17 | 47.3 |
| 5/1/2015 10:22:59 | 41.99 | 35.89 | 862 | 1.19 | 0.17 | 47.1 |
| 5/1/2015 10:23:00 | 42.32 | 36.22 | 862 | 1.19 | 0.17 | 47.1 |
| 5/1/2015 10:23:00 | 42.65 | 36.55 | 865 | 1.20 | 0.17 | 47.3 |
| 5/1/2015 10:23:00 | 42.98 | 36.88 | 857 | 1.20 | 0.17 | 46.9 |
| 5/1/2015 10:23:01 | 43.31 | 37.21 | 870 | 1.19 | 0.17 | 47.6 |
| 5/1/2015 10:23:02 | 43.64 | 37.54 | 864 | 1.19 | 0.17 | 47.3 |
| 5/1/2015 10:23:02 | 43.96 | 37.86 | 864 | 1.19 | 0.17 | 47.3 |
| 5/1/2015 10:23:02 | 44.29 | 38.19 | 861 | 1.21 | 0.17 | 47.1 |
| 5/1/2015 10:23:03 | 44.62 | 38.52 | 861 | 1.20 | 0.17 | 47.1 |
| 5/1/2015 10:23:03 | 44.95 | 38.85 | 864 | 1.21 | 0.17 | 47.3 |
| 5/1/2015 10:23:04 | 45.28 | 39.18 | 856 | 1.21 | 0.17 | 46.8 |
| 5/1/2015 10:23:04 | 45.60 | 39.50 | 856 | 1.21 | 0.17 | 46.8 |
| 5/1/2015 10:23:04 | 45.93 | 39.83 | 858 | 1.19 | 0.17 | 46.9 |
| 5/1/2015 10:23:05 | 46.26 | 40.16 | 854 | 1.19 | 0.17 | 46.7 |
| 5/1/2015 10:23:05 | 46.59 | 40.49 | 835 | 1.21 | 0.17 | 45.7 |
| 5/1/2015 10:23:06 | 46.92 | 40.82 | 835 | 1.20 | 0.17 | 45.7 |
| 5/1/2015 10:23:06 | 47.24 | 41.14 | 835 | 1.20 | 0.17 | 45.7 |
| 5/1/2015 10:23:06 | 47.57 | 41.47 | 849 | 1.13 | 0.17 | 46.4 |
| 5/1/2015 10:23:07 | 47.90 | 41.80 | 846 | 1.19 | 0.17 | 46.3 |
| 5/1/2015 10:23:07 | 48.23 | 42.13 | 849 | 1.20 | 0.17 | 46.4 |
| 5/1/2015 10:23:08 | 48.56 | 42.46 | 849 | 1.20 | 0.17 | 46.4 |
| 5/1/2015 10:23:08 | 48.88 | 42.78 | 849 | 1.20 | 0.17 | 46.4 |
| 5/1/2015 10:23:08 | 49.21 | 43.11 | 859 | 1.21 | 0.17 | 47.0 |
| 5/1/2015 10:23:09 | 49.54 | 43.44 | 848 | 1.12 | 0.17 | 46.4 |
| 5/1/2015 10:23:09 | 49.87 | 43.77 | 856 | 1.20 | 0.17 | 46.8 |
| 5/1/2015 10:23:10 | 50.20 | 44.10 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 10:23:10 | 50.53 | 44.43 | 853 | 1.21 | 0.17 | 46.6 |
| 5/1/2015 10:23:10 | 50.85 | 44.75 | 850 | 1.22 | 0.17 | 46.5 |
| 5/1/2015 10:23:25 | 51.18 | 45.08 | 3 | 1.16 | 0.78 | 0.2 |
| 5/1/2015 10:23:26 | 51.51 | 45.41 | 107 | 1.19 | 1.04 | 5.9 |
| 5/1/2015 10:23:27 | 51.84 | 45.74 | 181 | 1.21 | 1.07 | 9.9 |
| 5/1/2015 10:23:29 | 52.17 | 46.07 | 302 | 1.23 | 1.26 | 16.5 |
| 5/1/2015 10:23:30 | 52.49 | 46.39 | 233 | 1.20 | 1.06 | 12.7 |
| 5/1/2015 10:23:33 | 52.82 | 46.72 | 212 | 1.23 | 1.43 | 11.6 |
| 5/1/2015 10:23:34 | 53.15 | 47.05 | 216 | 1.21 | 1.38 | 11.8 |
| 5/1/2015 10:23:36 | 53.48 | 47.38 | 241 | 1.20 | 1.32 | 13.2 |
| 5/1/2015 10:23:38 | 53.81 | 47.71 | 168 | 1.19 | 1.16 | 9.2 |
| 5/1/2015 10:23:40 | 54.13 | 48.03 | 146 | 1.20 | 1.25 | 8.0 |
| 5/1/2015 10:23:44 | 54.46 | 48.36 | 113 | 1.19 | 1.02 | 6.2 |
| 5/1/2015 10:23:46 | 54.79 | 48.69 | 123 | 1.19 | 1.24 | 6.7 |
| 5/1/2015 10:23:55 | 55.12 | 49.02 | 6 | 1.15 | 1.04 | 0.3 |
| 5/1/2015 10:23:56 | 55.45 | 49.35 | 104 | 1.08 | 1.12 | 5.7 |
| 5/1/2015 10:23:58 | 55.77 | 49.67 | 180 | 1.20 | 1.17 | 9.8 |
| 5/1/2015 10:23:59 | 56.10 | 50.00 | 188 | 1.15 | 1.16 | 10.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:24:01 | 56.43 | 50.33 | 233 | 1.07 | 1.66 | 12.8 |
| 5/1/2015 | 10:24:03 | 56.76 | 50.66 | 197 | 1.05 | 1.58 | 10.8 |
| 5/1/2015 | 10:24:05 | 57.09 | 50.99 | 214 | 1.17 | 1.26 | 11.7 |
| 5/1/2015 | 10:24:06 | 57.41 | 51.31 | 228 | 1.18 | 1.12 | 12.5 |
| 5/1/2015 | 10:24:08 | 57.74 | 51.64 | 227 | 1.17 | 1.07 | 12.4 |
| 5/1/2015 | 10:24:09 | 58.07 | 51.97 | 232 | 1.10 | 1.13 | 12.7 |
| 5/1/2015 | 10:24:10 | 58.40 | 52.30 | 232 | 1.04 | 1.25 | 12.7 |
| 5/1/2015 | 10:24:13 | 58.73 | 52.63 | 176 | 1.13 | 0.95 | 9.6 |
| 5/1/2015 | 10:24:15 | 59.06 | 52.96 | 161 | 1.11 | 1.25 | 8.8 |
| 5/1/2015 | 10:24:16 | 59.38 | 53.28 | 265 | 1.15 | 1.12 | 14.5 |
| 5/1/2015 | 10:24:26 | 59.71 | 53.61 | 20 | 1.11 | 0.92 | 1.1 |
| 5/1/2015 | 10:24:43 | 60.04 | 53.94 | 17 | 1.11 | 0.85 | 0.9 |
| 5/1/2015 | 10:25:03 | 60.37 | 54.27 | 17 | 1.14 | 0.85 | 0.9 |
| 5/1/2015 | 10:25:14 | 60.57 | 54.47 | 17 | 1.26 | 0.94 | 1.0 |

## N5 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:21:10

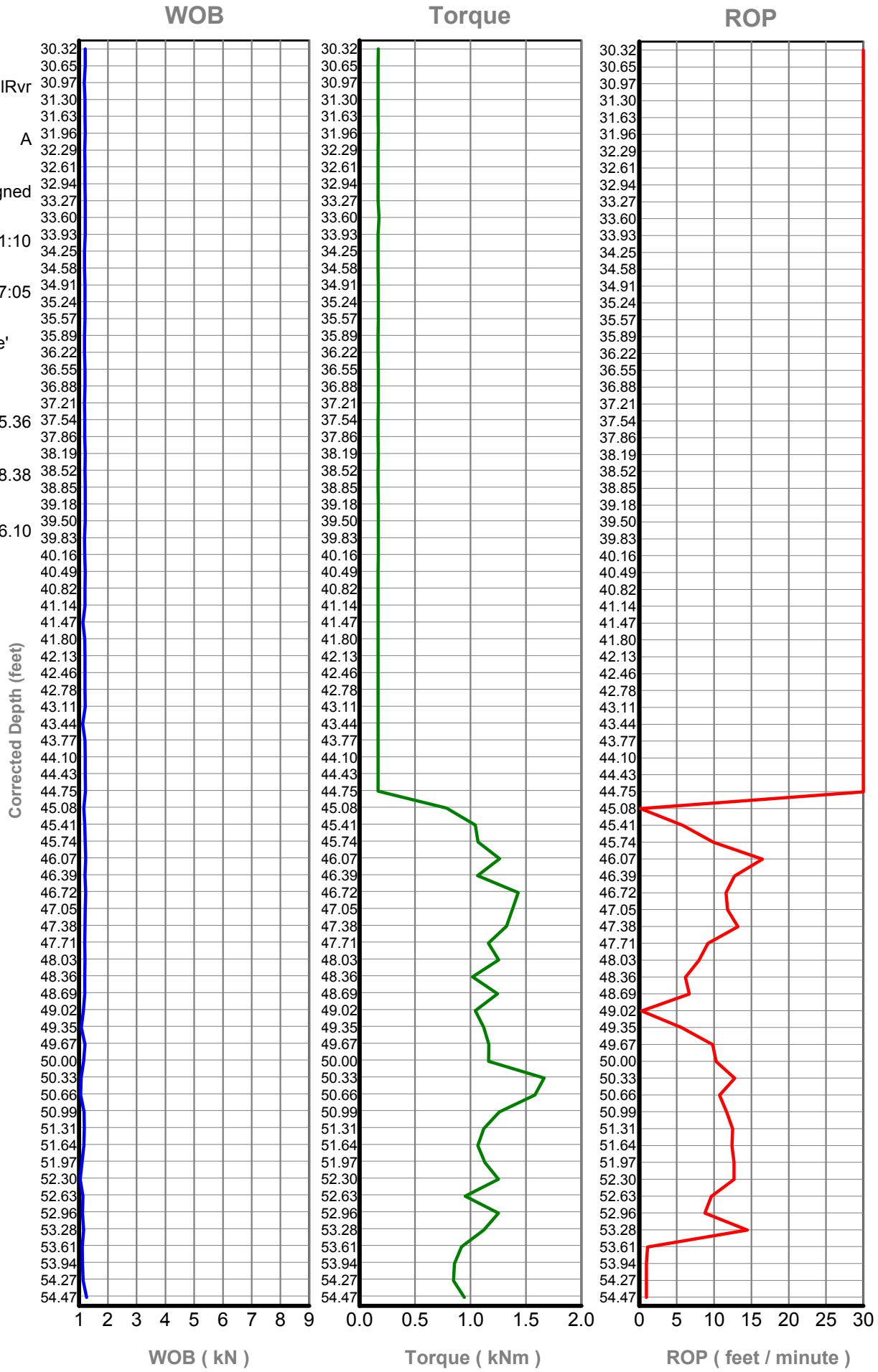
**End Date:**
5/1/2015 10:27:05

**Operator Note:**
'6.1 5.6 a Auto Complete'

**Northing:**
354,745.36

**Easting:**
232,998.38

**Tide (feet):**
6.10



## Hole: N6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:42:06 | 36.42 | 30.22 | 838 | 1.21 | 0.16 | 45.8 |
| 5/1/2015 10:42:07 | 36.75 | 30.55 | 874 | 1.19 | 0.16 | 47.8 |
| 5/1/2015 10:42:07 | 37.07 | 30.87 | 861 | 1.19 | 0.16 | 47.1 |
| 5/1/2015 10:42:08 | 37.40 | 31.20 | 867 | 1.19 | 0.17 | 47.4 |
| 5/1/2015 10:42:08 | 37.73 | 31.53 | 867 | 1.19 | 0.17 | 47.4 |
| 5/1/2015 10:42:08 | 38.06 | 31.86 | 875 | 1.20 | 0.16 | 47.8 |
| 5/1/2015 10:42:09 | 38.39 | 32.19 | 866 | 1.19 | 0.17 | 47.3 |
| 5/1/2015 10:42:09 | 38.71 | 32.51 | 866 | 1.19 | 0.17 | 47.3 |
| 5/1/2015 10:42:10 | 39.04 | 32.84 | 860 | 1.19 | 0.17 | 47.0 |
| 5/1/2015 10:42:10 | 39.37 | 33.17 | 860 | 1.19 | 0.17 | 47.0 |
| 5/1/2015 10:42:10 | 39.70 | 33.50 | 875 | 1.21 | 0.16 | 47.8 |
| 5/1/2015 10:42:11 | 40.03 | 33.83 | 861 | 1.21 | 0.16 | 47.1 |
| 5/1/2015 10:42:11 | 40.35 | 34.15 | 856 | 1.20 | 0.17 | 46.8 |
| 5/1/2015 10:42:12 | 40.68 | 34.48 | 863 | 1.20 | 0.16 | 47.2 |
| 5/1/2015 10:42:12 | 41.01 | 34.81 | 863 | 1.20 | 0.16 | 47.2 |
| 5/1/2015 10:42:12 | 41.34 | 35.14 | 862 | 1.19 | 0.17 | 47.1 |
| 5/1/2015 10:42:13 | 41.67 | 35.47 | 850 | 1.20 | 0.16 | 46.5 |
| 5/1/2015 10:42:13 | 41.99 | 35.79 | 856 | 1.19 | 0.17 | 46.8 |
| 5/1/2015 10:42:14 | 42.32 | 36.12 | 856 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 10:42:14 | 42.65 | 36.45 | 856 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 10:42:14 | 42.98 | 36.78 | 864 | 1.19 | 0.17 | 47.2 |
| 5/1/2015 10:42:15 | 43.31 | 37.11 | 856 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 10:42:15 | 43.64 | 37.44 | 864 | 1.19 | 0.16 | 47.2 |
| 5/1/2015 10:42:16 | 43.96 | 37.76 | 854 | 1.19 | 0.16 | 46.7 |
| 5/1/2015 10:42:17 | 44.29 | 38.09 | 854 | 1.19 | 0.16 | 46.7 |
| 5/1/2015 10:42:17 | 44.62 | 38.42 | 859 | 1.20 | 0.16 | 47.0 |
| 5/1/2015 10:42:17 | 44.95 | 38.75 | 856 | 1.19 | 0.16 | 46.8 |
| 5/1/2015 10:42:18 | 45.28 | 39.08 | 853 | 1.19 | 0.16 | 46.7 |
| 5/1/2015 10:42:18 | 45.60 | 39.40 | 848 | 1.20 | 0.16 | 46.4 |
| 5/1/2015 10:42:19 | 45.93 | 39.73 | 848 | 1.20 | 0.16 | 46.4 |
| 5/1/2015 10:42:19 | 46.26 | 40.06 | 861 | 1.18 | 0.16 | 47.1 |
| 5/1/2015 10:42:19 | 46.59 | 40.39 | 850 | 1.19 | 0.16 | 46.5 |
| 5/1/2015 10:42:20 | 46.92 | 40.72 | 850 | 1.19 | 0.16 | 46.5 |
| 5/1/2015 10:42:20 | 47.24 | 41.04 | 853 | 1.18 | 0.16 | 46.6 |
| 5/1/2015 10:42:21 | 47.57 | 41.37 | 853 | 1.18 | 0.16 | 46.6 |
| 5/1/2015 10:42:21 | 47.90 | 41.70 | 853 | 1.21 | 0.16 | 46.6 |
| 5/1/2015 10:42:21 | 48.23 | 42.03 | 850 | 1.18 | 0.16 | 46.5 |
| 5/1/2015 10:42:22 | 48.56 | 42.36 | 850 | 1.19 | 0.16 | 46.5 |
| 5/1/2015 10:42:22 | 48.88 | 42.68 | 845 | 1.19 | 0.16 | 46.2 |
| 5/1/2015 10:42:23 | 49.21 | 43.01 | 845 | 1.19 | 0.16 | 46.2 |
| 5/1/2015 10:42:23 | 49.54 | 43.34 | 853 | 1.19 | 0.16 | 46.6 |
| 5/1/2015 10:42:35 | 49.87 | 43.67 | 0 | 1.75 | 0.72 | 0.0 |
| 5/1/2015 10:42:36 | 50.20 | 44.00 | 117 | 1.19 | 1.36 | 6.4 |
| 5/1/2015 10:42:38 | 50.53 | 44.33 | 234 | 1.21 | 1.50 | 12.8 |
| 5/1/2015 10:42:42 | 50.85 | 44.65 | 11 | 1.17 | 1.16 | 0.6 |
| 5/1/2015 10:42:44 | 51.18 | 44.98 | 143 | 1.13 | 1.00 | 7.8 |
| 5/1/2015 10:42:45 | 51.51 | 45.31 | 206 | 1.20 | 0.91 | 11.3 |
| 5/1/2015 10:42:46 | 51.84 | 45.64 | 315 | 1.17 | 0.93 | 17.2 |
| 5/1/2015 10:42:48 | 52.17 | 45.97 | 254 | 1.13 | 1.42 | 13.9 |
| 5/1/2015 10:42:49 | 52.49 | 46.29 | 248 | 1.18 | 1.49 | 13.6 |
| 5/1/2015 10:42:50 | 52.82 | 46.62 | 309 | 1.16 | 1.35 | 16.9 |
| 5/1/2015 10:42:51 | 53.15 | 46.95 | 338 | 1.12 | 1.13 | 18.5 |
| 5/1/2015 10:42:52 | 53.48 | 47.28 | 350 | 1.15 | 0.97 | 19.1 |
| 5/1/2015 10:42:53 | 53.81 | 47.61 | 358 | 1.14 | 1.00 | 19.6 |
| 5/1/2015 10:42:54 | 54.13 | 47.93 | 378 | 1.21 | 0.99 | 20.7 |
| 5/1/2015 10:42:55 | 54.46 | 48.26 | 366 | 1.17 | 1.36 | 20.0 |
| 5/1/2015 10:42:57 | 54.79 | 48.59 | 308 | 1.21 | 1.13 | 16.8 |
| 5/1/2015 10:42:59 | 55.12 | 48.92 | 223 | 1.20 | 1.11 | 12.2 |
| 5/1/2015 10:43:03 | 55.45 | 49.25 | 58 | 1.17 | 1.10 | 3.2 |
| 5/1/2015 10:43:20 | 55.77 | 49.57 | 21 | 1.12 | 1.01 | 1.2 |
| 5/1/2015 10:43:33 | 56.10 | 49.90 | 29 | 1.09 | 0.89 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 10:43:46 | 56.43 | 50.23 | 27 | 1.15 | 0.93 | 1.5 |
| 5/1/2015 | 10:43:52 | 56.58 | 50.38 | 26 | 1.29 | 0.98 | 1.4 |

## N6 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:40:27

**End Date:**
5/1/2015 10:46:01

**Operator Note:**
'6.2 6.2 a Auto Complete'

**Northing:**
354,789.90

**Easting:**
233,065.70

**Tide (feet):**
6.20



## Hole: N7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 10:57:17 | 36.42 | 30.12 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 10:57:17 | 36.75 | 30.45 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 10:57:18 | 37.07 | 30.77 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 10:57:18 | 37.40 | 31.10 | 890 | 1.16 | 0.16 | 48.7 |
| 5/1/2015 10:57:19 | 37.73 | 31.43 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:19 | 38.06 | 31.76 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:19 | 38.39 | 32.09 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 10:57:20 | 38.71 | 32.41 | 893 | 1.18 | 0.16 | 48.8 |
| 5/1/2015 10:57:20 | 39.04 | 32.74 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 10:57:21 | 39.37 | 33.07 | 893 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 10:57:21 | 39.70 | 33.40 | 890 | 1.18 | 0.16 | 48.7 |
| 5/1/2015 10:57:21 | 40.03 | 33.73 | 890 | 1.17 | 0.16 | 48.7 |
| 5/1/2015 10:57:22 | 40.35 | 34.05 | 890 | 1.16 | 0.16 | 48.7 |
| 5/1/2015 10:57:23 | 40.68 | 34.38 | 885 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 10:57:23 | 41.01 | 34.71 | 885 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 10:57:23 | 41.34 | 35.04 | 882 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 10:57:24 | 41.67 | 35.37 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 10:57:24 | 41.99 | 35.69 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:25 | 42.32 | 36.02 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:25 | 42.65 | 36.35 | 882 | 1.16 | 0.16 | 48.2 |
| 5/1/2015 10:57:25 | 42.98 | 36.68 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:26 | 43.31 | 37.01 | 876 | 1.18 | 0.16 | 47.9 |
| 5/1/2015 10:57:26 | 43.64 | 37.34 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:27 | 43.96 | 37.66 | 885 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:27 | 44.29 | 37.99 | 856 | 1.16 | 0.16 | 46.8 |
| 5/1/2015 10:57:27 | 44.62 | 38.32 | 856 | 1.17 | 0.16 | 46.8 |
| 5/1/2015 10:57:28 | 44.95 | 38.65 | 869 | 1.18 | 0.16 | 47.5 |
| 5/1/2015 10:57:28 | 45.28 | 38.98 | 869 | 1.18 | 0.16 | 47.5 |
| 5/1/2015 10:57:28 | 45.60 | 39.30 | 877 | 1.18 | 0.16 | 48.0 |
| 5/1/2015 10:57:29 | 45.93 | 39.63 | 880 | 1.17 | 0.16 | 48.1 |
| 5/1/2015 10:57:29 | 46.26 | 39.96 | 869 | 1.16 | 0.16 | 47.5 |
| 5/1/2015 10:57:30 | 46.59 | 40.29 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 10:57:30 | 46.92 | 40.62 | 895 | 1.17 | 0.16 | 48.9 |
| 5/1/2015 10:57:30 | 47.24 | 40.94 | 882 | 1.17 | 0.16 | 48.2 |
| 5/1/2015 10:57:31 | 47.57 | 41.27 | 871 | 1.16 | 0.16 | 47.6 |
| 5/1/2015 10:57:31 | 47.90 | 41.60 | 876 | 1.19 | 0.16 | 47.9 |
| 5/1/2015 10:57:32 | 48.23 | 41.93 | 876 | 1.19 | 0.16 | 47.9 |
| 5/1/2015 10:57:32 | 48.56 | 42.26 | 876 | 1.15 | 0.16 | 47.9 |
| 5/1/2015 10:57:33 | 48.88 | 42.58 | 884 | 1.17 | 0.16 | 48.4 |
| 5/1/2015 10:57:33 | 49.21 | 42.91 | 879 | 1.21 | 0.16 | 48.1 |
| 5/1/2015 10:57:34 | 49.54 | 43.24 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 10:57:34 | 49.87 | 43.57 | 882 | 1.19 | 0.16 | 48.2 |
| 5/1/2015 10:57:34 | 50.20 | 43.90 | 869 | 1.12 | 0.16 | 47.5 |
| 5/1/2015 10:57:35 | 50.53 | 44.23 | 882 | 1.18 | 0.16 | 48.3 |
| 5/1/2015 10:57:45 | 50.85 | 44.55 | 3 | 1.53 | 0.88 | 0.2 |
| 5/1/2015 10:57:50 | 51.18 | 44.88 | 52 | 1.72 | 1.44 | 2.8 |
| 5/1/2015 10:57:51 | 51.51 | 45.21 | 222 | 2.02 | 1.09 | 12.2 |
| 5/1/2015 10:57:52 | 51.84 | 45.54 | 293 | 1.21 | 1.18 | 16.0 |
| 5/1/2015 10:57:54 | 52.17 | 45.87 | 275 | 1.19 | 1.36 | 15.0 |
| 5/1/2015 10:57:56 | 52.49 | 46.19 | 168 | 1.16 | 1.43 | 9.2 |
| 5/1/2015 10:57:59 | 52.82 | 46.52 | 153 | 1.20 | 1.33 | 8.4 |
| 5/1/2015 10:58:00 | 53.15 | 46.85 | 248 | 1.10 | 1.43 | 13.5 |
| 5/1/2015 10:58:01 | 53.48 | 47.18 | 223 | 1.18 | 1.03 | 12.2 |
| 5/1/2015 10:58:03 | 53.81 | 47.51 | 213 | 1.25 | 0.90 | 11.6 |
| 5/1/2015 10:58:08 | 54.13 | 47.83 | 45 | 1.15 | 0.99 | 2.5 |
| 5/1/2015 10:58:19 | 54.46 | 48.16 | 32 | 1.14 | 0.94 | 1.7 |
| 5/1/2015 10:58:31 | 54.79 | 48.49 | 29 | 1.15 | 0.92 | 1.6 |
| 5/1/2015 10:58:41 | 55.09 | 48.79 | 29 | 0.66 | 1.01 | 1.6 |

## N7 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 10:55:36

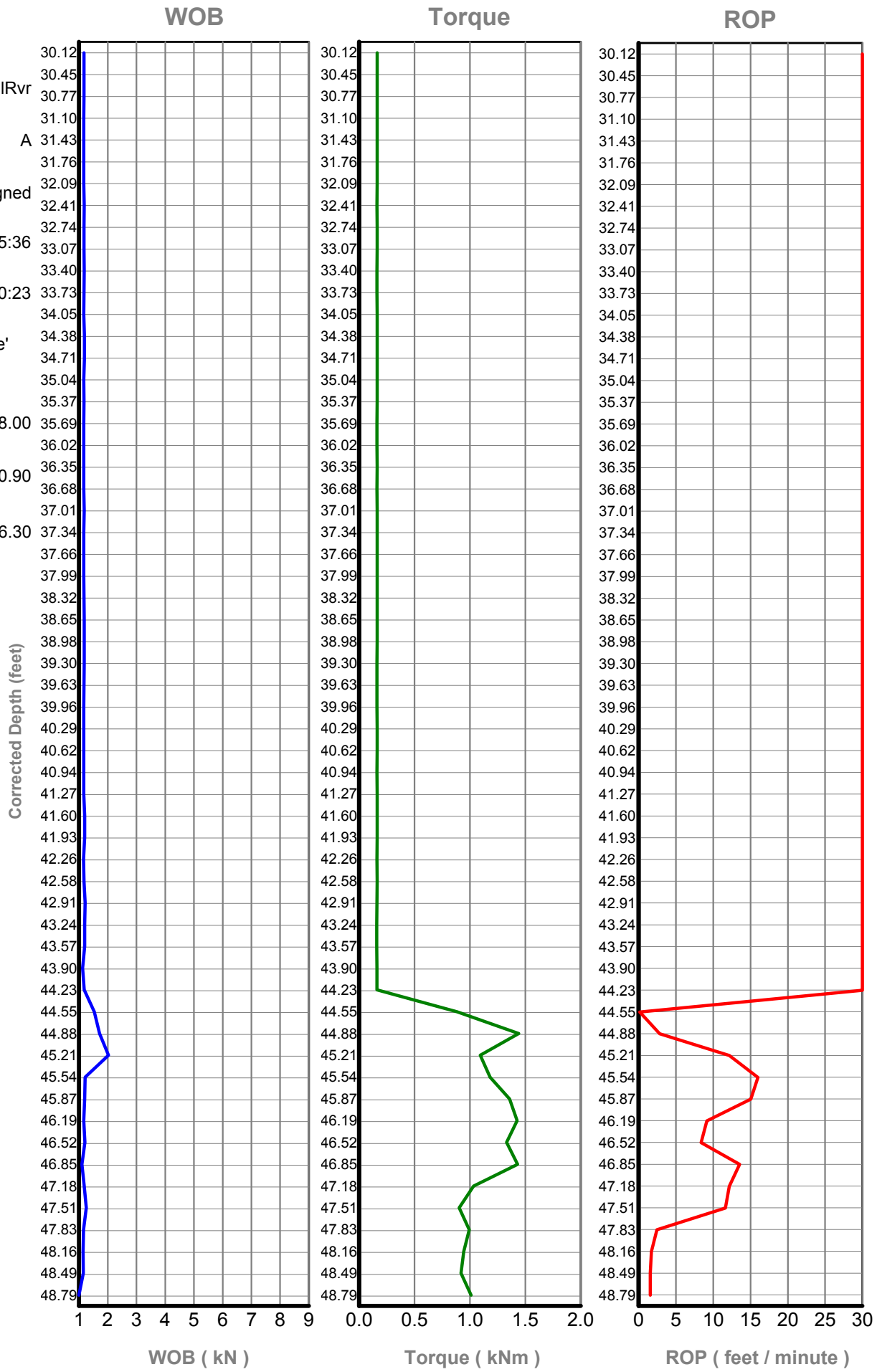
**End Date:**
5/1/2015 11:00:23

**Operator Note:**
'6.3 6.3 a Auto Complete'

**Northing:**
354,828.00

**Easting:**
233,130.90

**Tide (feet):**
6.30



## Hole: N8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/1/2015 11:12:15 | 36.42 | 30.02 | 848 | 1.15 | 0.16 | 46.4 |
| 5/1/2015 11:12:15 | 36.75 | 30.35 | 848 | 1.16 | 0.16 | 46.4 |
| 5/1/2015 11:12:16 | 37.07 | 30.67 | 880 | 1.15 | 0.16 | 48.1 |
| 5/1/2015 11:12:16 | 37.40 | 31.00 | 877 | 1.17 | 0.16 | 48.0 |
| 5/1/2015 11:12:17 | 37.73 | 31.33 | 877 | 1.17 | 0.16 | 48.0 |
| 5/1/2015 11:12:17 | 38.06 | 31.66 | 877 | 1.17 | 0.16 | 48.0 |
| 5/1/2015 11:12:18 | 38.39 | 31.99 | 860 | 1.19 | 0.16 | 47.0 |
| 5/1/2015 11:12:18 | 38.71 | 32.31 | 860 | 1.18 | 0.16 | 47.0 |
| 5/1/2015 11:12:19 | 39.04 | 32.64 | 898 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 11:12:19 | 39.37 | 32.97 | 898 | 1.17 | 0.16 | 49.1 |
| 5/1/2015 11:12:19 | 39.70 | 33.30 | 874 | 1.19 | 0.16 | 47.8 |
| 5/1/2015 11:12:20 | 40.03 | 33.63 | 874 | 1.17 | 0.16 | 47.8 |
| 5/1/2015 11:12:20 | 40.35 | 33.95 | 874 | 1.17 | 0.16 | 47.8 |
| 5/1/2015 11:12:21 | 40.68 | 34.28 | 874 | 1.17 | 0.16 | 47.8 |
| 5/1/2015 11:12:21 | 41.01 | 34.61 | 871 | 1.18 | 0.16 | 47.7 |
| 5/1/2015 11:12:21 | 41.34 | 34.94 | 876 | 1.17 | 0.16 | 47.9 |
| 5/1/2015 11:12:22 | 41.67 | 35.27 | 854 | 1.18 | 0.16 | 46.7 |
| 5/1/2015 11:12:22 | 41.99 | 35.59 | 864 | 1.17 | 0.16 | 47.3 |
| 5/1/2015 11:12:23 | 42.32 | 35.92 | 864 | 1.17 | 0.16 | 47.3 |
| 5/1/2015 11:12:23 | 42.65 | 36.25 | 864 | 1.17 | 0.16 | 47.3 |
| 5/1/2015 11:12:23 | 42.98 | 36.58 | 864 | 1.18 | 0.16 | 47.3 |
| 5/1/2015 11:12:24 | 43.31 | 36.91 | 864 | 1.16 | 0.16 | 47.3 |
| 5/1/2015 11:12:24 | 43.64 | 37.24 | 864 | 1.16 | 0.16 | 47.3 |
| 5/1/2015 11:12:24 | 43.96 | 37.56 | 887 | 1.18 | 0.16 | 48.5 |
| 5/1/2015 11:12:25 | 44.29 | 37.89 | 858 | 1.17 | 0.16 | 46.9 |
| 5/1/2015 11:12:25 | 44.62 | 38.22 | 858 | 1.17 | 0.16 | 46.9 |
| 5/1/2015 11:12:26 | 44.95 | 38.55 | 882 | 1.17 | 0.16 | 48.3 |
| 5/1/2015 11:12:26 | 45.28 | 38.88 | 882 | 1.17 | 0.16 | 48.3 |
| 5/1/2015 11:12:26 | 45.60 | 39.20 | 892 | 1.17 | 0.16 | 48.8 |
| 5/1/2015 11:12:27 | 45.93 | 39.53 | 884 | 1.19 | 0.16 | 48.4 |
| 5/1/2015 11:12:28 | 46.26 | 39.86 | 869 | 1.17 | 0.16 | 47.5 |
| 5/1/2015 11:12:28 | 46.59 | 40.19 | 869 | 1.17 | 0.16 | 47.5 |
| 5/1/2015 11:12:28 | 46.92 | 40.52 | 868 | 1.17 | 0.16 | 47.5 |
| 5/1/2015 11:12:29 | 47.24 | 40.84 | 868 | 1.17 | 0.16 | 47.5 |
| 5/1/2015 11:12:29 | 47.57 | 41.17 | 865 | 1.17 | 0.16 | 47.3 |
| 5/1/2015 11:12:30 | 47.90 | 41.50 | 851 | 1.16 | 0.16 | 46.5 |
| 5/1/2015 11:12:30 | 48.23 | 41.83 | 851 | 1.16 | 0.16 | 46.5 |
| 5/1/2015 11:12:30 | 48.56 | 42.16 | 851 | 1.17 | 0.16 | 46.5 |
| 5/1/2015 11:12:31 | 48.88 | 42.48 | 847 | 1.15 | 0.16 | 46.3 |
| 5/1/2015 11:12:31 | 49.21 | 42.81 | 847 | 1.15 | 0.16 | 46.3 |
| 5/1/2015 11:12:32 | 49.54 | 43.14 | 847 | 1.18 | 0.16 | 46.3 |
| 5/1/2015 11:12:32 | 49.87 | 43.47 | 847 | 1.18 | 0.16 | 46.3 |
| 5/1/2015 11:12:32 | 50.20 | 43.80 | 867 | 1.18 | 0.16 | 47.4 |
| 5/1/2015 11:12:33 | 50.53 | 44.13 | 845 | 1.18 | 0.16 | 46.2 |
| 5/1/2015 11:12:33 | 50.85 | 44.45 | 845 | 1.21 | 0.16 | 46.2 |
| 5/1/2015 11:12:34 | 51.18 | 44.78 | 845 | 1.21 | 0.16 | 46.2 |
| 5/1/2015 11:12:34 | 51.51 | 45.11 | 866 | 1.18 | 0.16 | 47.3 |
| 5/1/2015 11:12:34 | 51.84 | 45.44 | 866 | 1.19 | 0.16 | 47.3 |
| 5/1/2015 11:12:35 | 52.17 | 45.77 | 864 | 1.26 | 0.16 | 47.3 |
| 5/1/2015 11:12:48 | 52.49 | 46.09 | 3 | 1.15 | 1.02 | 0.2 |
| 5/1/2015 11:12:51 | 52.82 | 46.42 | 95 | 1.42 | 1.18 | 5.2 |
| 5/1/2015 11:12:52 | 53.15 | 46.75 | 95 | 1.11 | 0.95 | 5.2 |
| 5/1/2015 11:12:53 | 53.48 | 47.08 | 169 | 1.83 | 0.98 | 9.2 |
| 5/1/2015 11:12:55 | 53.81 | 47.41 | 239 | 1.12 | 1.07 | 13.1 |
| 5/1/2015 11:12:56 | 54.13 | 47.73 | 270 | 1.17 | 1.60 | 14.8 |
| 5/1/2015 11:12:57 | 54.46 | 48.06 | 281 | 1.78 | 0.85 | 15.4 |
| 5/1/2015 11:12:57 | 54.79 | 48.39 | 313 | 1.70 | 1.14 | 17.1 |
| 5/1/2015 11:12:58 | 55.12 | 48.72 | 370 | 1.81 | 1.13 | 20.2 |
| 5/1/2015 11:13:01 | 55.45 | 49.05 | 251 | 1.21 | 1.20 | 13.8 |
| 5/1/2015 11:13:02 | 55.77 | 49.37 | 259 | 1.03 | 1.19 | 14.2 |
| 5/1/2015 11:13:03 | 56.10 | 49.70 | 308 | 1.19 | 1.06 | 16.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/1/2015 | 11:13:04 | 56.43 | 50.03 | 336 | 1.15 | 0.84 | 18.3 |
| 5/1/2015 | 11:13:05 | 56.76 | 50.36 | 331 | 1.11 | 0.83 | 18.1 |
| 5/1/2015 | 11:13:14 | 57.09 | 50.69 | 0 | 1.05 | 0.72 | 0.0 |
| 5/1/2015 | 11:13:15 | 57.41 | 51.01 | 117 | 0.82 | 0.89 | 6.4 |
| 5/1/2015 | 11:13:19 | 57.74 | 51.34 | 91 | 0.49 | 0.96 | 5.0 |
| 5/1/2015 | 11:13:21 | 58.07 | 51.67 | 185 | 1.06 | 1.29 | 10.1 |
| 5/1/2015 | 11:13:23 | 58.40 | 52.00 | 210 | 1.53 | 0.99 | 11.5 |
| 5/1/2015 | 11:13:24 | 58.73 | 52.33 | 196 | 1.16 | 1.06 | 10.7 |
| 5/1/2015 | 11:13:27 | 59.06 | 52.66 | 120 | 1.11 | 1.21 | 6.6 |
| 5/1/2015 | 11:13:29 | 59.38 | 52.98 | 194 | 1.15 | 1.25 | 10.6 |
| 5/1/2015 | 11:13:31 | 59.71 | 53.31 | 198 | 1.11 | 1.06 | 10.8 |
| 5/1/2015 | 11:13:33 | 60.04 | 53.64 | 220 | 1.12 | 1.28 | 12.0 |
| 5/1/2015 | 11:13:34 | 60.37 | 53.97 | 201 | 1.11 | 1.36 | 11.0 |
| 5/1/2015 | 11:13:36 | 60.70 | 54.30 | 187 | 1.09 | 1.07 | 10.2 |
| 5/1/2015 | 11:13:39 | 61.02 | 54.62 | 103 | 1.12 | 1.23 | 5.7 |
| 5/1/2015 | 11:13:43 | 61.35 | 54.95 | 100 | 1.15 | 1.26 | 5.5 |
| 5/1/2015 | 11:13:44 | 61.44 | 55.04 | 113 | 1.17 | 1.13 | 6.2 |

## N8 - Summary

**Pattern Number:**
AreaN_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/1/2015 11:10:43

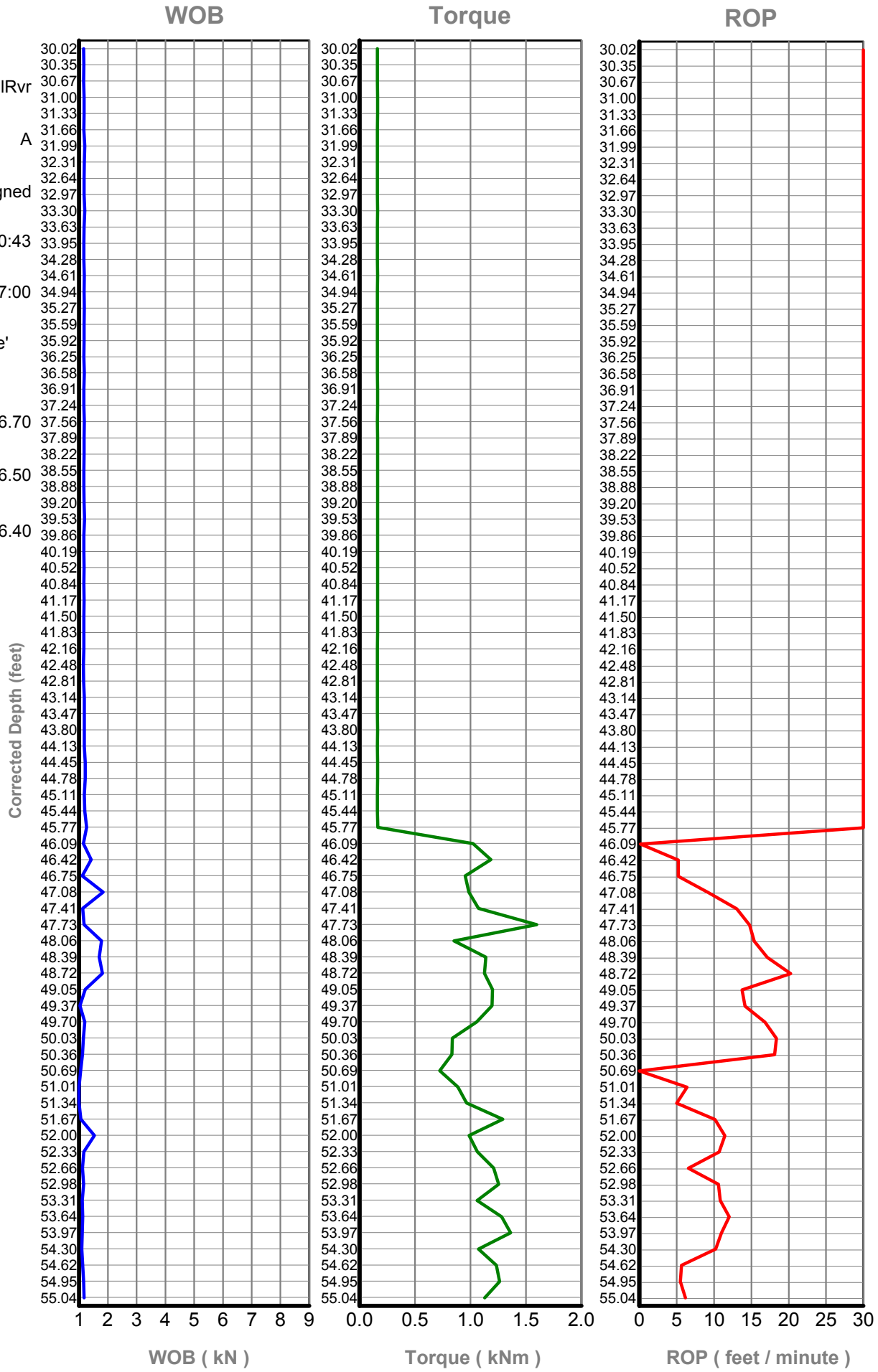
**End Date:**
5/1/2015 11:17:00

**Operator Note:**
'6.4 6.4 a Auto Complete'

**Northing:**
354,866.70

**Easting:**
233,196.50

**Tide (feet):**
6.40



## Hole: O1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:04:40 | 33.79 | 30.09 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 9:04:40 | 34.12 | 30.42 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 9:04:40 | 34.45 | 30.75 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:41 | 34.78 | 31.08 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:41 | 35.11 | 31.41 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:42 | 35.43 | 31.73 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:42 | 35.76 | 32.06 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:42 | 36.09 | 32.39 | 870 | 1.14 | 0.29 | 47.6 |
| 5/2/2015 9:04:43 | 36.42 | 32.72 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 9:04:43 | 36.75 | 33.05 | 866 | 1.14 | 0.29 | 47.4 |
| 5/2/2015 9:04:44 | 37.07 | 33.37 | 852 | 1.14 | 0.29 | 46.6 |
| 5/2/2015 9:04:44 | 37.40 | 33.70 | 852 | 1.14 | 0.29 | 46.6 |
| 5/2/2015 9:04:44 | 37.73 | 34.03 | 852 | 1.14 | 0.29 | 46.6 |
| 5/2/2015 9:04:45 | 38.06 | 34.36 | 858 | 1.14 | 0.29 | 46.9 |
| 5/2/2015 9:04:46 | 38.39 | 34.69 | 854 | 1.14 | 0.29 | 46.7 |
| 5/2/2015 9:04:46 | 38.71 | 35.01 | 854 | 1.14 | 0.29 | 46.7 |
| 5/2/2015 9:04:46 | 39.04 | 35.34 | 863 | 1.14 | 0.29 | 47.2 |
| 5/2/2015 9:04:47 | 39.37 | 35.67 | 874 | 1.14 | 0.29 | 47.8 |
| 5/2/2015 9:04:47 | 39.70 | 36.00 | 882 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:04:48 | 40.03 | 36.33 | 882 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:04:48 | 40.35 | 36.65 | 882 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:04:48 | 40.68 | 36.98 | 897 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 9:04:49 | 41.01 | 37.31 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 9:04:49 | 41.34 | 37.64 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 9:04:49 | 41.67 | 37.97 | 919 | 1.14 | 0.29 | 50.2 |
| 5/2/2015 9:04:50 | 41.99 | 38.29 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:50 | 42.32 | 38.62 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:51 | 42.65 | 38.95 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:51 | 42.98 | 39.28 | 914 | 1.14 | 0.29 | 50.0 |
| 5/2/2015 9:04:51 | 43.31 | 39.61 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:52 | 43.64 | 39.94 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:52 | 43.96 | 40.26 | 901 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 9:04:52 | 44.29 | 40.59 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 9:04:53 | 44.62 | 40.92 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 9:04:53 | 44.95 | 41.25 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 9:04:54 | 45.28 | 41.58 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 9:04:54 | 45.60 | 41.90 | 918 | 1.14 | 0.29 | 50.2 |
| 5/2/2015 9:04:54 | 45.93 | 42.23 | 918 | 1.14 | 0.29 | 50.2 |
| 5/2/2015 9:04:55 | 46.26 | 42.56 | 922 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 9:04:55 | 46.59 | 42.89 | 922 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 9:04:55 | 46.92 | 43.22 | 933 | 1.14 | 0.29 | 51.0 |
| 5/2/2015 9:04:56 | 47.24 | 43.54 | 916 | 1.14 | 0.29 | 50.1 |
| 5/2/2015 9:04:56 | 47.57 | 43.87 | 924 | 1.14 | 0.29 | 50.5 |
| 5/2/2015 9:04:57 | 47.90 | 44.20 | 924 | 1.14 | 0.29 | 50.5 |
| 5/2/2015 9:04:57 | 48.23 | 44.53 | 936 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 9:04:58 | 48.56 | 44.86 | 922 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 9:04:58 | 48.88 | 45.18 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 9:04:59 | 49.21 | 45.51 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 9:04:59 | 49.54 | 45.84 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 9:04:59 | 49.87 | 46.17 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 9:05:00 | 50.20 | 46.50 | 928 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 9:05:00 | 50.53 | 46.83 | 928 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 9:05:38 | 50.85 | 47.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 9:05:38 | 51.18 | 47.48 | 128 | 1.14 | 0.29 | 7.0 |
| 5/2/2015 9:05:39 | 51.51 | 47.81 | 292 | 1.14 | 0.29 | 16.0 |
| 5/2/2015 9:05:39 | 51.84 | 48.14 | 448 | 1.14 | 0.29 | 24.5 |
| 5/2/2015 9:05:56 | 52.17 | 48.47 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 9:05:57 | 52.49 | 48.79 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 9:05:57 | 52.82 | 49.12 | 193 | 1.14 | 0.29 | 10.6 |
| 5/2/2015 9:05:57 | 53.15 | 49.45 | 358 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 9:05:58 | 53.48 | 49.78 | 518 | 1.14 | 0.29 | 28.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:05:58 | 53.81 | 50.11 | 680 | 1.14 | 0.29 | 37.2 |
| 5/2/2015 | 9:05:59 | 54.13 | 50.43 | 809 | 1.14 | 0.29 | 44.2 |
| 5/2/2015 | 9:06:03 | 54.46 | 50.76 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 | 9:06:04 | 54.79 | 51.09 | 135 | 1.14 | 0.29 | 7.4 |
| 5/2/2015 | 9:06:04 | 55.12 | 51.42 | 264 | 1.14 | 0.29 | 14.4 |
| 5/2/2015 | 9:06:05 | 55.45 | 51.75 | 351 | 1.14 | 0.29 | 19.2 |
| 5/2/2015 | 9:06:06 | 55.77 | 52.07 | 500 | 1.14 | 0.29 | 27.3 |
| 5/2/2015 | 9:06:07 | 56.10 | 52.40 | 398 | 1.14 | 0.29 | 21.8 |
| 5/2/2015 | 9:06:08 | 56.43 | 52.73 | 388 | 1.14 | 0.29 | 21.2 |
| 5/2/2015 | 9:06:09 | 56.76 | 53.06 | 378 | 1.14 | 0.29 | 20.7 |
| 5/2/2015 | 9:06:10 | 57.09 | 53.39 | 372 | 1.14 | 0.29 | 20.4 |
| 5/2/2015 | 9:06:11 | 57.41 | 53.71 | 367 | 1.14 | 0.29 | 20.0 |
| 5/2/2015 | 9:06:12 | 57.74 | 54.04 | 358 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 | 9:06:34 | 58.07 | 54.37 | 88 | 1.14 | 0.29 | 4.8 |
| 5/2/2015 | 9:06:34 | 58.40 | 54.70 | 88 | 1.14 | 0.29 | 4.8 |
| 5/2/2015 | 9:06:36 | 58.73 | 55.03 | 348 | 1.14 | 0.29 | 19.0 |
| 5/2/2015 | 9:06:36 | 59.06 | 55.36 | 352 | 1.14 | 0.29 | 19.2 |
| 5/2/2015 | 9:06:37 | 59.11 | 55.41 | 273 | 1.14 | 0.29 | 15.0 |

## O1 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/2/2015 9:01:19

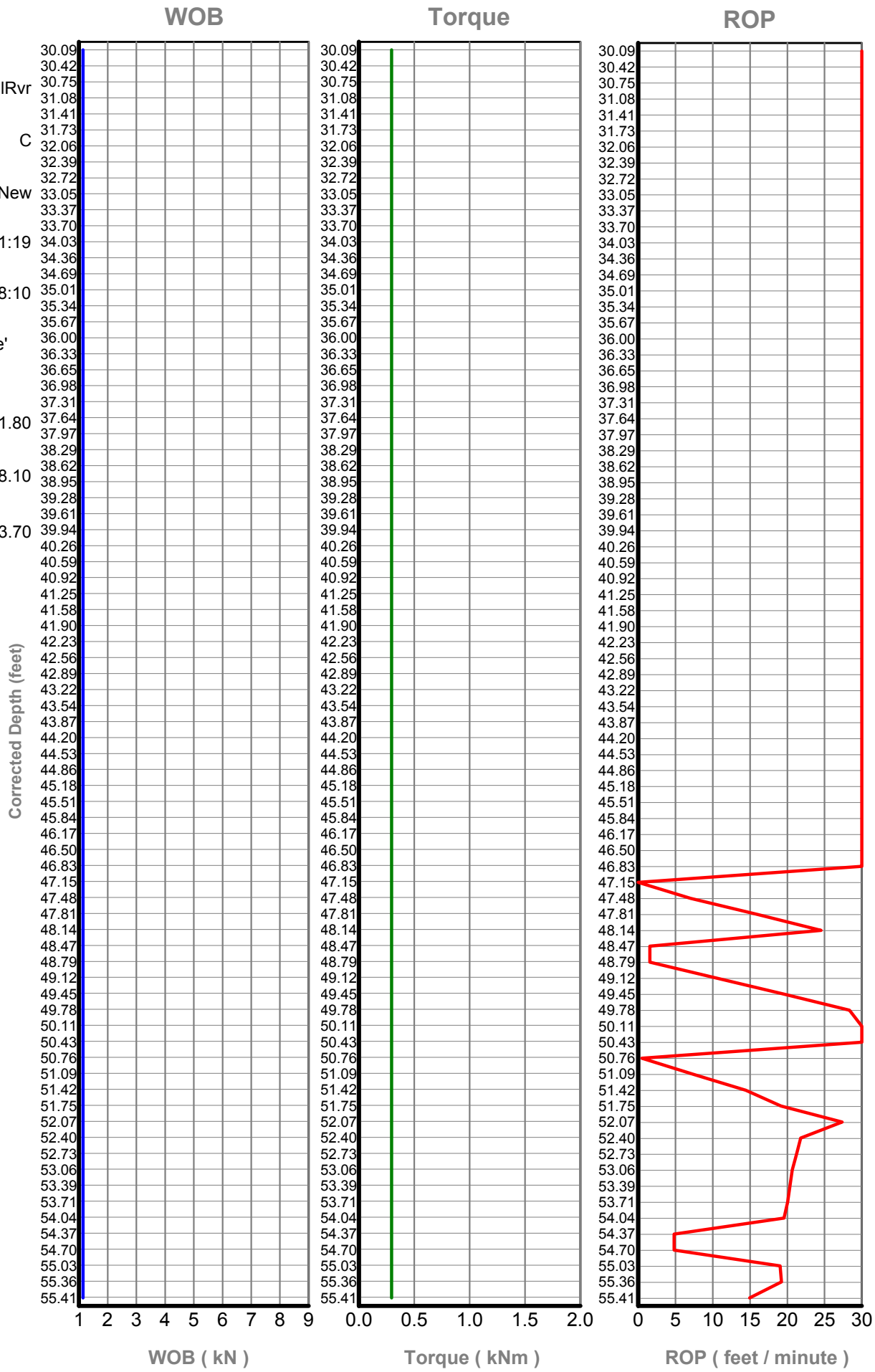
**End Date:**
5/2/2015 9:08:10

**Operator Note:**
'3.7 3.4 c Auto Complete'

**Northing:**
352,251.80

**Easting:**
229,038.10

**Tide (feet):**
3.70



## Hole: O10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:07:31 | 34.12 | 30.32 | 997 | 0.45 | 0.42 | 54.5 |
| 5/2/2015 9:07:31 | 34.45 | 30.65 | 997 | 0.46 | 0.42 | 54.5 |
| 5/2/2015 9:07:31 | 34.78 | 30.98 | 985 | 0.47 | 0.42 | 53.8 |
| 5/2/2015 9:07:32 | 35.11 | 31.31 | 985 | 0.47 | 0.42 | 53.8 |
| 5/2/2015 9:07:32 | 35.43 | 31.63 | 995 | 0.46 | 0.42 | 54.4 |
| 5/2/2015 9:07:32 | 35.76 | 31.96 | 980 | 0.45 | 0.42 | 53.6 |
| 5/2/2015 9:07:33 | 36.09 | 32.29 | 991 | 0.45 | 0.42 | 54.2 |
| 5/2/2015 9:07:33 | 36.42 | 32.62 | 991 | 0.45 | 0.42 | 54.2 |
| 5/2/2015 9:07:33 | 36.75 | 32.95 | 986 | 0.41 | 0.42 | 53.9 |
| 5/2/2015 9:07:34 | 37.07 | 33.27 | 989 | 0.39 | 0.42 | 54.1 |
| 5/2/2015 9:07:34 | 37.40 | 33.60 | 989 | 0.39 | 0.42 | 54.1 |
| 5/2/2015 9:07:34 | 37.73 | 33.93 | 994 | 0.39 | 0.42 | 54.4 |
| 5/2/2015 9:07:35 | 38.06 | 34.26 | 1,012 | 0.43 | 0.42 | 55.3 |
| 5/2/2015 9:07:35 | 38.39 | 34.59 | 1,012 | 0.43 | 0.42 | 55.3 |
| 5/2/2015 9:07:35 | 38.71 | 34.91 | 1,000 | 0.46 | 0.42 | 54.7 |
| 5/2/2015 9:07:36 | 39.04 | 35.24 | 1,000 | 0.46 | 0.42 | 54.7 |
| 5/2/2015 9:07:36 | 39.37 | 35.57 | 1,000 | 0.46 | 0.42 | 54.7 |
| 5/2/2015 9:07:37 | 39.70 | 35.90 | 1,000 | 0.47 | 0.42 | 54.7 |
| 5/2/2015 9:07:37 | 40.03 | 36.23 | 997 | 0.48 | 0.42 | 54.5 |
| 5/2/2015 9:07:38 | 40.35 | 36.55 | 977 | 0.49 | 0.42 | 53.4 |
| 5/2/2015 9:07:38 | 40.68 | 36.88 | 977 | 0.49 | 0.42 | 53.4 |
| 5/2/2015 9:07:38 | 41.01 | 37.21 | 980 | 0.49 | 0.42 | 53.6 |
| 5/2/2015 9:07:39 | 41.34 | 37.54 | 980 | 0.49 | 0.42 | 53.6 |
| 5/2/2015 9:07:39 | 41.67 | 37.87 | 980 | 0.49 | 0.42 | 53.6 |
| 5/2/2015 9:07:39 | 41.99 | 38.19 | 971 | 0.49 | 0.42 | 53.1 |
| 5/2/2015 9:07:40 | 42.32 | 38.52 | 966 | 0.49 | 0.42 | 52.8 |
| 5/2/2015 9:07:40 | 42.65 | 38.85 | 966 | 0.49 | 0.42 | 52.8 |
| 5/2/2015 9:07:40 | 42.98 | 39.18 | 977 | 0.45 | 0.42 | 53.5 |
| 5/2/2015 9:07:41 | 43.31 | 39.51 | 977 | 0.39 | 0.41 | 53.5 |
| 5/2/2015 9:07:41 | 43.64 | 39.84 | 986 | 0.39 | 0.42 | 53.9 |
| 5/2/2015 9:07:42 | 43.96 | 40.16 | 986 | 0.39 | 0.42 | 53.9 |
| 5/2/2015 9:07:42 | 44.29 | 40.49 | 1,000 | 0.38 | 0.42 | 54.7 |
| 5/2/2015 9:07:42 | 44.62 | 40.82 | 1,006 | 0.38 | 0.41 | 55.0 |
| 5/2/2015 9:07:43 | 44.95 | 41.15 | 1,006 | 0.38 | 0.41 | 55.0 |
| 5/2/2015 9:07:43 | 45.28 | 41.48 | 1,003 | 0.37 | 0.41 | 54.8 |
| 5/2/2015 9:07:43 | 45.60 | 41.80 | 1,018 | 0.37 | 0.41 | 55.6 |
| 5/2/2015 9:07:44 | 45.93 | 42.13 | 1,018 | 0.37 | 0.41 | 55.6 |
| 5/2/2015 9:07:44 | 46.26 | 42.46 | 1,020 | 0.48 | 0.42 | 55.8 |
| 5/2/2015 9:07:44 | 46.59 | 42.79 | 1,018 | 0.47 | 0.41 | 55.6 |
| 5/2/2015 9:07:45 | 46.92 | 43.12 | 1,018 | 0.47 | 0.41 | 55.6 |
| 5/2/2015 9:07:45 | 47.24 | 43.44 | 1,020 | 0.39 | 0.41 | 55.8 |
| 5/2/2015 9:07:45 | 47.57 | 43.77 | 1,035 | 0.43 | 0.41 | 56.6 |
| 5/2/2015 9:07:46 | 47.90 | 44.10 | 1,035 | 0.43 | 0.41 | 56.6 |
| 5/2/2015 9:07:46 | 48.23 | 44.43 | 1,035 | 0.42 | 0.41 | 56.6 |
| 5/2/2015 9:07:46 | 48.56 | 44.76 | 1,035 | 0.41 | 0.41 | 56.6 |
| 5/2/2015 9:07:47 | 48.88 | 45.08 | 1,035 | 0.41 | 0.41 | 56.6 |
| 5/2/2015 9:07:47 | 49.21 | 45.41 | 1,037 | 0.35 | 0.41 | 56.7 |
| 5/2/2015 9:07:48 | 49.54 | 45.74 | 1,037 | 0.35 | 0.41 | 56.7 |
| 5/2/2015 9:07:48 | 49.87 | 46.07 | 1,049 | 0.16 | 0.41 | 57.3 |
| 5/2/2015 9:07:48 | 50.20 | 46.40 | 1,049 | 0.38 | 0.41 | 57.4 |
| 5/2/2015 9:07:49 | 50.53 | 46.73 | 1,049 | 0.38 | 0.41 | 57.4 |
| 5/2/2015 9:07:49 | 50.85 | 47.05 | 1,052 | 0.38 | 0.41 | 57.5 |
| 5/2/2015 9:07:49 | 51.18 | 47.38 | 1,055 | 0.38 | 0.44 | 57.7 |
| 5/2/2015 9:07:50 | 51.51 | 47.71 | 1,055 | 0.38 | 0.44 | 57.7 |
| 5/2/2015 9:07:50 | 51.84 | 48.04 | 1,064 | 0.39 | 0.41 | 58.2 |
| 5/2/2015 9:07:50 | 52.17 | 48.37 | 1,067 | 0.38 | 0.41 | 58.4 |
| 5/2/2015 9:07:51 | 52.49 | 48.69 | 1,067 | 0.38 | 0.41 | 58.4 |
| 5/2/2015 9:07:51 | 52.82 | 49.02 | 1,061 | 0.38 | 0.41 | 58.0 |
| 5/2/2015 9:07:51 | 53.15 | 49.35 | 1,054 | 0.39 | 0.41 | 57.7 |
| 5/2/2015 9:07:52 | 53.48 | 49.68 | 1,054 | 0.39 | 0.41 | 57.7 |
| 5/2/2015 9:07:52 | 53.81 | 50.01 | 1,061 | 0.38 | 0.41 | 58.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:07:52 | 54.13 | 50.33 | 1,052 | 0.38 | 0.41 | 57.5 |
| 5/2/2015 | 9:07:53 | 54.46 | 50.66 | 1,052 | 0.38 | 0.41 | 57.5 |
| 5/2/2015 | 9:07:53 | 54.79 | 50.99 | 1,052 | 0.37 | 0.41 | 57.5 |
| 5/2/2015 | 9:07:53 | 55.12 | 51.32 | 1,052 | 0.37 | 0.42 | 57.5 |
| 5/2/2015 | 9:07:54 | 55.45 | 51.65 | 1,052 | 0.37 | 0.42 | 57.5 |
| 5/2/2015 | 9:07:54 | 55.77 | 51.97 | 1,049 | 0.37 | 0.41 | 57.4 |
| 5/2/2015 | 9:07:54 | 56.10 | 52.30 | 1,044 | 0.37 | 0.42 | 57.1 |
| 5/2/2015 | 9:07:55 | 56.43 | 52.63 | 1,044 | 0.37 | 0.42 | 57.1 |
| 5/2/2015 | 9:07:55 | 56.76 | 52.96 | 1,021 | 0.31 | 0.41 | 55.8 |
| 5/2/2015 | 9:08:09 | 57.09 | 53.29 | 85 | 2.62 | 0.43 | 4.7 |
| 5/2/2015 | 9:08:11 | 57.41 | 53.61 | 85 | 2.62 | 0.43 | 4.7 |
| 5/2/2015 | 9:08:10 | 57.74 | 53.94 | 191 | 2.62 | 0.43 | 10.4 |
| 5/2/2015 | 9:08:10 | 58.07 | 54.27 | 362 | 2.58 | 0.42 | 19.8 |
| 5/2/2015 | 9:08:11 | 58.40 | 54.60 | 459 | 2.57 | 0.43 | 25.1 |
| 5/2/2015 | 9:08:11 | 58.73 | 54.93 | 459 | 2.57 | 0.43 | 25.1 |

## O10 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:04:59

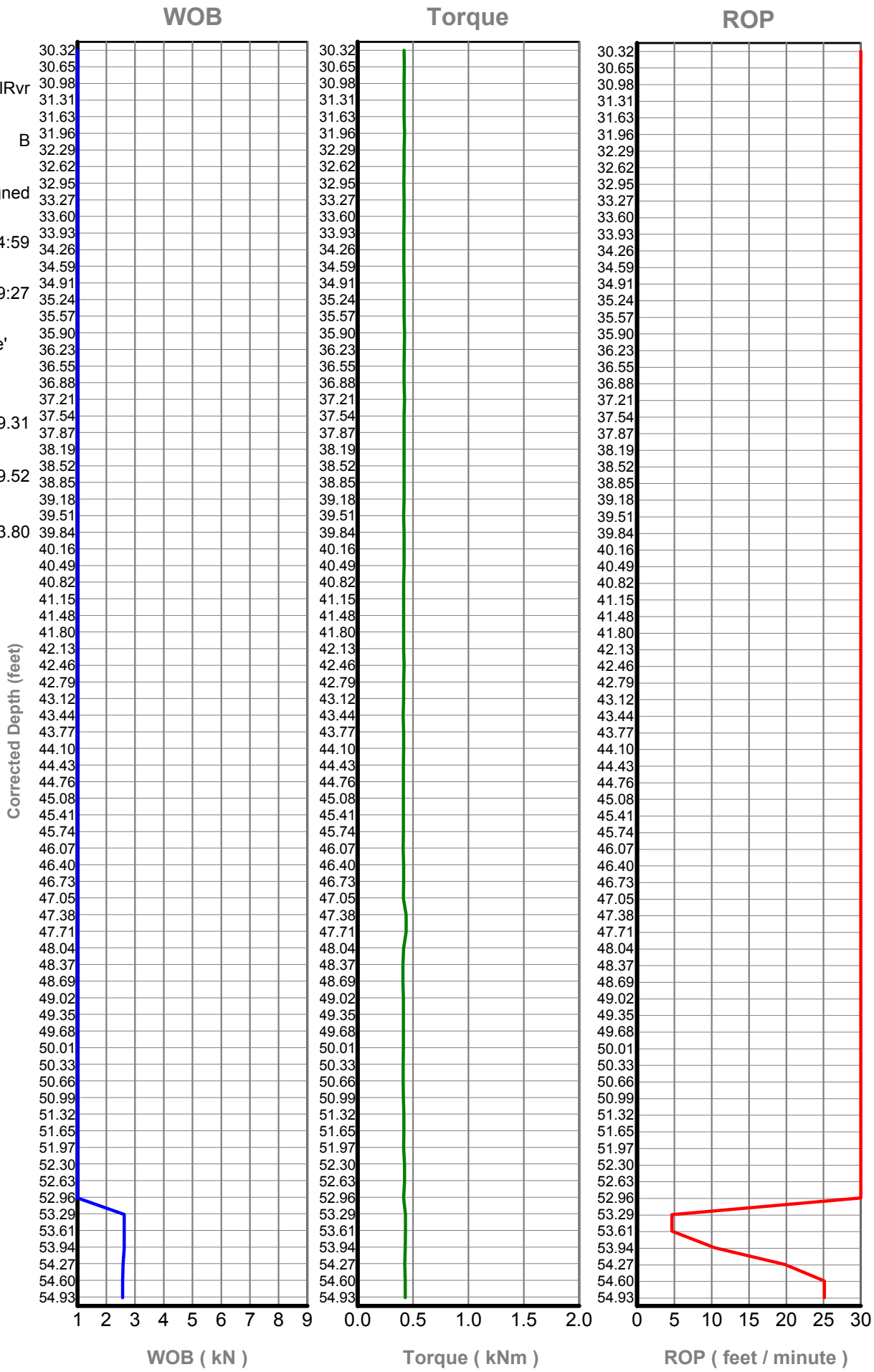
**End Date:**
5/2/2015 9:09:27

**Operator Note:**
'3.8 3.6 b Auto Complete'

**Northing:**
352,189.31

**Easting:**
229,079.52

**Tide (feet):**
3.80



## Hole: O1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:44:47 | 36.42 | 30.12 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:48 | 36.75 | 30.45 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:47 | 37.07 | 30.77 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 11:44:48 | 37.40 | 31.10 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 11:44:48 | 37.73 | 31.43 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:49 | 38.06 | 31.76 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 11:44:49 | 38.39 | 32.09 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 11:44:49 | 38.71 | 32.41 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:50 | 39.04 | 32.74 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:50 | 39.37 | 33.07 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:50 | 39.70 | 33.40 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:51 | 40.03 | 33.73 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:51 | 40.35 | 34.05 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:51 | 40.68 | 34.38 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 11:44:52 | 41.01 | 34.71 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 11:44:52 | 41.34 | 35.04 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 11:44:52 | 41.67 | 35.37 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:53 | 41.99 | 35.69 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:53 | 42.32 | 36.02 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:53 | 42.65 | 36.35 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 11:44:53 | 42.98 | 36.68 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/2/2015 11:44:54 | 43.31 | 37.01 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:44:54 | 43.64 | 37.34 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:44:54 | 43.96 | 37.66 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:55 | 44.29 | 37.99 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:55 | 44.62 | 38.32 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 11:44:55 | 44.95 | 38.65 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:56 | 45.28 | 38.98 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:56 | 45.60 | 39.30 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 11:44:56 | 45.93 | 39.63 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:57 | 46.26 | 39.96 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:57 | 46.59 | 40.29 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:57 | 46.92 | 40.62 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:57 | 47.24 | 40.94 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:44:58 | 47.57 | 41.27 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:58 | 47.90 | 41.60 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 11:44:58 | 48.23 | 41.93 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 11:44:59 | 48.56 | 42.26 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 11:45:00 | 48.88 | 42.58 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 11:45:00 | 49.21 | 42.91 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:45:00 | 49.54 | 43.24 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:45:00 | 49.87 | 43.57 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 11:45:01 | 50.20 | 43.90 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 11:45:01 | 50.53 | 44.23 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 11:45:01 | 50.85 | 44.55 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:45:02 | 51.18 | 44.88 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:45:02 | 51.51 | 45.21 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:45:02 | 51.84 | 45.54 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:45:03 | 52.17 | 45.87 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 11:45:03 | 52.49 | 46.19 | 1,118 | 1.14 | 0.29 | 61.1 |
| 5/2/2015 11:45:03 | 52.82 | 46.52 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 11:45:04 | 53.15 | 46.85 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 11:45:04 | 53.48 | 47.18 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:45:04 | 53.81 | 47.51 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 11:45:05 | 54.13 | 47.83 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 11:45:05 | 54.46 | 48.16 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:45:05 | 54.79 | 48.49 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 11:45:28 | 55.12 | 48.82 | 11 | 1.14 | 0.29 | 0.6 |
| 5/2/2015 11:45:29 | 55.45 | 49.15 | 153 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 11:45:29 | 55.77 | 49.47 | 282 | 1.14 | 0.29 | 15.4 |
| 5/2/2015 11:45:30 | 56.10 | 49.80 | 388 | 1.14 | 0.29 | 21.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 11:45:31 | 56.43 | 50.13 | 602 | 1.14 | 0.29 | 32.9 |
| 5/2/2015 11:45:31 | 56.76 | 50.46 | 579 | 1.14 | 0.29 | 31.7 |
| 5/2/2015 11:45:32 | 57.09 | 50.79 | 570 | 1.14 | 0.29 | 31.2 |
| 5/2/2015 11:45:32 | 57.41 | 51.11 | 576 | 1.14 | 0.29 | 31.5 |
| 5/2/2015 11:45:33 | 57.74 | 51.44 | 559 | 1.14 | 0.29 | 30.6 |
| 5/2/2015 11:45:34 | 58.07 | 51.77 | 555 | 1.14 | 0.29 | 30.4 |
| 5/2/2015 11:45:35 | 58.40 | 52.10 | 475 | 1.14 | 0.29 | 26.0 |
| 5/2/2015 11:45:37 | 58.73 | 52.43 | 302 | 1.14 | 0.29 | 16.5 |
| 5/2/2015 11:45:39 | 59.06 | 52.76 | 176 | 1.14 | 0.29 | 9.6 |
| 5/2/2015 11:45:40 | 59.38 | 53.08 | 225 | 1.14 | 0.29 | 12.3 |
| 5/2/2015 11:45:41 | 59.71 | 53.41 | 366 | 1.14 | 0.29 | 20.0 |
| 5/2/2015 11:45:42 | 60.04 | 53.74 | 310 | 1.14 | 0.29 | 17.0 |
| 5/2/2015 11:45:43 | 60.37 | 54.07 | 310 | 1.14 | 0.29 | 17.0 |
| 5/2/2015 11:45:43 | 60.70 | 54.40 | 401 | 1.14 | 0.29 | 21.9 |
| 5/2/2015 11:45:43 | 61.02 | 54.72 | 465 | 1.14 | 0.29 | 25.4 |
| 5/2/2015 11:45:45 | 61.35 | 55.05 | 508 | 1.14 | 0.29 | 27.8 |
| 5/2/2015 11:45:45 | 61.58 | 55.28 | 508 | 1.14 | 0.29 | 27.8 |

## O1000 - Summary

**Pattern Number:**
AreaO_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 11:43:40

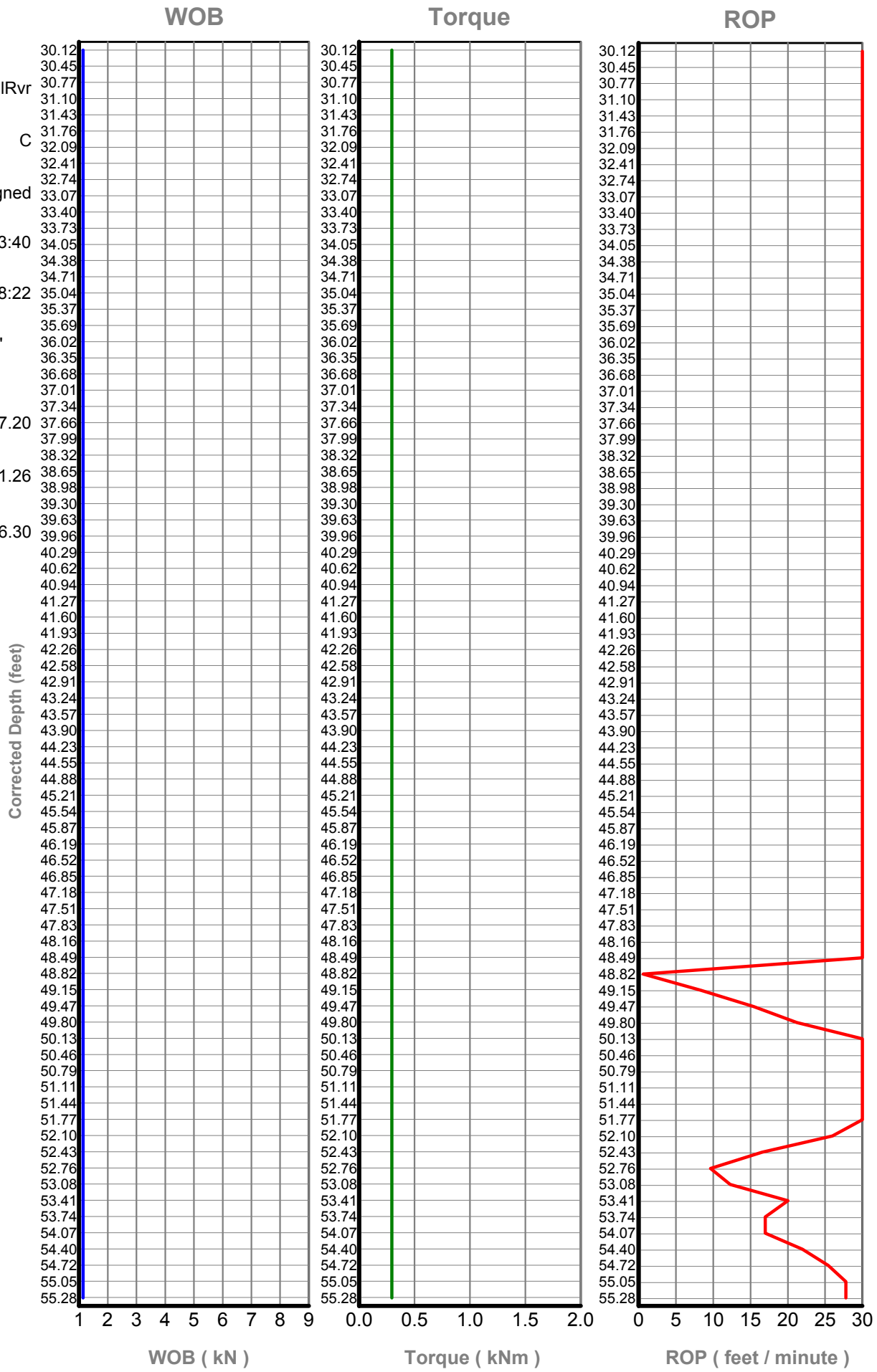
**End Date:**
5/2/2015 11:48:22

**Operator Note:**
'6.3 6.2c Auto Complete'

**Northing:**
352,467.20

**Easting:**
229,791.26

**Tide (feet):**
6.30



## Hole: O1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:45:12 | 36.42 | 30.12 | 1,311 | 0.27 | 0.39 | 71.7 |
| 5/2/2015 11:45:12 | 36.75 | 30.45 | 1,311 | 0.27 | 0.39 | 71.7 |
| 5/2/2015 11:45:13 | 37.07 | 30.77 | 1,286 | 0.28 | 0.38 | 70.3 |
| 5/2/2015 11:45:13 | 37.40 | 31.10 | 1,286 | 0.28 | 0.38 | 70.3 |
| 5/2/2015 11:45:13 | 37.73 | 31.43 | 1,256 | 0.27 | 0.39 | 68.7 |
| 5/2/2015 11:45:13 | 38.06 | 31.76 | 1,256 | 0.27 | 0.39 | 68.7 |
| 5/2/2015 11:45:14 | 38.39 | 32.09 | 1,256 | 0.28 | 0.39 | 68.7 |
| 5/2/2015 11:45:14 | 38.71 | 32.41 | 1,256 | 0.28 | 0.39 | 68.7 |
| 5/2/2015 11:45:14 | 39.04 | 32.74 | 1,260 | 0.27 | 0.40 | 68.9 |
| 5/2/2015 11:45:15 | 39.37 | 33.07 | 1,260 | 0.27 | 0.40 | 68.9 |
| 5/2/2015 11:45:15 | 39.70 | 33.40 | 1,260 | 0.35 | 0.40 | 68.9 |
| 5/2/2015 11:45:15 | 40.03 | 33.73 | 1,260 | 0.35 | 0.40 | 68.9 |
| 5/2/2015 11:45:15 | 40.35 | 34.05 | 1,301 | 0.36 | 0.43 | 71.1 |
| 5/2/2015 11:45:16 | 40.68 | 34.38 | 1,301 | 0.36 | 0.43 | 71.1 |
| 5/2/2015 11:45:16 | 41.01 | 34.71 | 1,262 | 0.35 | 0.41 | 69.0 |
| 5/2/2015 11:45:16 | 41.34 | 35.04 | 1,245 | 0.36 | 0.42 | 68.1 |
| 5/2/2015 11:45:17 | 41.67 | 35.37 | 1,245 | 0.36 | 0.42 | 68.1 |
| 5/2/2015 11:45:17 | 41.99 | 35.69 | 1,245 | 0.35 | 0.40 | 68.1 |
| 5/2/2015 11:45:17 | 42.32 | 36.02 | 1,245 | 0.35 | 0.40 | 68.1 |
| 5/2/2015 11:45:17 | 42.65 | 36.35 | 1,290 | 0.35 | 0.40 | 70.5 |
| 5/2/2015 11:45:18 | 42.98 | 36.68 | 1,290 | 0.35 | 0.40 | 70.5 |
| 5/2/2015 11:45:18 | 43.31 | 37.01 | 1,253 | 0.36 | 0.38 | 68.5 |
| 5/2/2015 11:45:18 | 43.64 | 37.34 | 1,253 | 0.36 | 0.38 | 68.5 |
| 5/2/2015 11:45:18 | 43.96 | 37.66 | 1,253 | 0.29 | 0.40 | 68.5 |
| 5/2/2015 11:45:19 | 44.29 | 37.99 | 1,253 | 0.29 | 0.40 | 68.5 |
| 5/2/2015 11:45:19 | 44.62 | 38.32 | 1,243 | 0.29 | 0.39 | 68.0 |
| 5/2/2015 11:45:19 | 44.95 | 38.65 | 1,243 | 0.29 | 0.39 | 68.0 |
| 5/2/2015 11:45:24 | 45.28 | 38.98 | 3 | 0.30 | 0.44 | 0.2 |
| 5/2/2015 11:45:25 | 45.60 | 39.30 | 3 | 0.33 | 0.41 | 0.2 |
| 5/2/2015 11:45:25 | 45.93 | 39.63 | 3 | 0.33 | 0.41 | 0.2 |
| 5/2/2015 11:45:25 | 46.26 | 39.96 | 186 | 0.35 | 0.39 | 10.2 |
| 5/2/2015 11:45:26 | 46.59 | 40.29 | 439 | 0.37 | 0.45 | 24.0 |
| 5/2/2015 11:45:35 | 46.92 | 40.62 | 3 | 0.36 | 0.42 | 0.2 |
| 5/2/2015 11:45:35 | 47.24 | 40.94 | 162 | 0.35 | 0.42 | 8.9 |
| 5/2/2015 11:45:36 | 47.57 | 41.27 | 162 | 0.35 | 0.42 | 8.9 |
| 5/2/2015 11:45:36 | 47.90 | 41.60 | 388 | 0.36 | 0.42 | 21.2 |
| 5/2/2015 11:45:36 | 48.23 | 41.93 | 388 | 0.36 | 0.42 | 21.2 |
| 5/2/2015 11:45:36 | 48.56 | 42.26 | 616 | 0.37 | 0.35 | 33.7 |
| 5/2/2015 11:45:37 | 48.88 | 42.58 | 616 | 0.37 | 0.35 | 33.7 |
| 5/2/2015 11:45:37 | 49.21 | 42.91 | 852 | 0.36 | 0.42 | 46.6 |
| 5/2/2015 11:45:37 | 49.54 | 43.24 | 1,080 | 0.37 | 0.42 | 59.0 |
| 5/2/2015 11:45:38 | 49.87 | 43.57 | 1,080 | 0.37 | 0.42 | 59.0 |
| 5/2/2015 11:45:38 | 50.20 | 43.90 | 1,152 | 0.36 | 0.41 | 63.0 |
| 5/2/2015 11:45:38 | 50.53 | 44.23 | 1,152 | 0.36 | 0.41 | 63.0 |
| 5/2/2015 11:45:38 | 50.85 | 44.55 | 1,165 | 0.35 | 0.42 | 63.7 |
| 5/2/2015 11:45:39 | 51.18 | 44.88 | 1,165 | 0.35 | 0.42 | 63.7 |
| 5/2/2015 11:45:39 | 51.51 | 45.21 | 1,165 | 0.35 | 0.42 | 63.7 |
| 5/2/2015 11:45:39 | 51.84 | 45.54 | 1,168 | 0.35 | 0.42 | 63.9 |
| 5/2/2015 11:45:40 | 52.17 | 45.87 | 1,168 | 0.35 | 0.42 | 63.9 |
| 5/2/2015 11:45:40 | 52.49 | 46.19 | 1,168 | 0.35 | 0.43 | 63.9 |
| 5/2/2015 11:45:40 | 52.82 | 46.52 | 1,171 | 0.36 | 0.42 | 64.0 |
| 5/2/2015 11:45:41 | 53.15 | 46.85 | 1,171 | 0.36 | 0.42 | 64.0 |
| 5/2/2015 11:45:41 | 53.48 | 47.18 | 1,156 | 0.35 | 0.42 | 63.2 |
| 5/2/2015 11:45:41 | 53.81 | 47.51 | 1,156 | 0.35 | 0.42 | 63.2 |
| 5/2/2015 11:45:41 | 54.13 | 47.83 | 1,139 | 0.29 | 0.41 | 62.3 |
| 5/2/2015 11:45:42 | 54.46 | 48.16 | 1,109 | 0.28 | 0.41 | 60.6 |
| 5/2/2015 11:45:42 | 54.79 | 48.49 | 1,109 | 0.28 | 0.41 | 60.6 |
| 5/2/2015 11:45:42 | 55.12 | 48.82 | 1,095 | 0.27 | 0.41 | 59.9 |
| 5/2/2015 11:45:43 | 55.45 | 49.15 | 1,064 | 0.27 | 0.41 | 58.2 |
| 5/2/2015 11:45:43 | 55.77 | 49.47 | 1,064 | 0.27 | 0.41 | 58.2 |
| 5/2/2015 11:45:43 | 56.10 | 49.80 | 1,046 | 0.26 | 0.42 | 57.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 11:45:44 | 56.43 | 50.13 | 1,032 | 0.26 | 0.42 | 56.4 |
| 5/2/2015 11:45:45 | 56.76 | 50.46 | 1,032 | 0.26 | 0.42 | 56.4 |
| 5/2/2015 11:45:44 | 57.09 | 50.79 | 1,024 | 0.25 | 0.43 | 56.0 |
| 5/2/2015 11:45:45 | 57.41 | 51.11 | 1,003 | 0.26 | 0.42 | 54.8 |
| 5/2/2015 11:45:46 | 57.74 | 51.44 | 989 | 0.26 | 0.42 | 54.1 |
| 5/2/2015 11:45:46 | 58.07 | 51.77 | 989 | 0.26 | 0.42 | 54.1 |
| 5/2/2015 11:45:46 | 58.40 | 52.10 | 959 | 0.26 | 0.43 | 52.5 |
| 5/2/2015 11:45:47 | 58.73 | 52.43 | 942 | 0.26 | 0.43 | 51.5 |
| 5/2/2015 11:45:47 | 59.06 | 52.76 | 908 | 0.26 | 0.43 | 49.6 |
| 5/2/2015 11:45:57 | 59.38 | 53.08 | 0 | 2.06 | 0.41 | 0.0 |
| 5/2/2015 11:45:58 | 59.71 | 53.41 | 63 | 2.02 | 0.41 | 3.4 |
| 5/2/2015 11:45:58 | 60.04 | 53.74 | 275 | 2.08 | 0.42 | 15.0 |
| 5/2/2015 11:45:59 | 60.37 | 54.07 | 275 | 2.08 | 0.42 | 15.0 |
| 5/2/2015 11:45:59 | 60.70 | 54.40 | 475 | 2.07 | 0.41 | 26.0 |
| 5/2/2015 11:45:59 | 61.02 | 54.72 | 677 | 2.09 | 0.36 | 37.0 |
| 5/2/2015 11:45:59 | 61.31 | 55.01 | 677 | 2.09 | 0.36 | 37.0 |

## O1001 - Summary

**Pattern Number:**
AreaO_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 11:42:29

**End Date:**
5/2/2015 11:47:23

**Operator Note:**
'6.3 6.2 b Auto Complete'

**Northing:**
352,509.17

**Easting:**
229,853.41

**Tide (feet):**
6.30



## Hole: O1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:45:38 | 36.42 | 30.12 | 947 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 11:45:38 | 36.75 | 30.45 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 11:45:39 | 37.07 | 30.77 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 11:45:39 | 37.40 | 31.10 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:39 | 37.73 | 31.43 | 947 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 11:45:40 | 38.06 | 31.76 | 926 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:40 | 38.39 | 32.09 | 926 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:40 | 38.71 | 32.41 | 926 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:41 | 39.04 | 32.74 | 932 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 11:45:41 | 39.37 | 33.07 | 938 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 11:45:42 | 39.70 | 33.40 | 938 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 11:45:42 | 40.03 | 33.73 | 938 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 11:45:42 | 40.35 | 34.05 | 935 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 11:45:43 | 40.68 | 34.38 | 935 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 11:45:43 | 41.01 | 34.71 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 11:45:43 | 41.34 | 35.04 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:44 | 41.67 | 35.37 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:44 | 41.99 | 35.69 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:44 | 42.32 | 36.02 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 11:45:45 | 42.65 | 36.35 | 934 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 11:45:46 | 42.98 | 36.68 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:46 | 43.31 | 37.01 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:46 | 43.64 | 37.34 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:47 | 43.96 | 37.66 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 11:45:47 | 44.29 | 37.99 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:48 | 44.62 | 38.32 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:48 | 44.95 | 38.65 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 11:45:48 | 45.28 | 38.98 | 934 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 11:45:49 | 45.60 | 39.30 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:49 | 45.93 | 39.63 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:45:49 | 46.26 | 39.96 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:50 | 46.59 | 40.29 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:50 | 46.92 | 40.62 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:51 | 47.24 | 40.94 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:51 | 47.57 | 41.27 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 11:45:51 | 47.90 | 41.60 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:52 | 48.23 | 41.93 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:52 | 48.56 | 42.26 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:52 | 48.88 | 42.58 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:53 | 49.21 | 42.91 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 11:45:53 | 49.54 | 43.24 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 11:45:53 | 49.87 | 43.57 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:54 | 50.20 | 43.90 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 11:45:54 | 50.53 | 44.23 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:55 | 50.85 | 44.55 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:55 | 51.18 | 44.88 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:55 | 51.51 | 45.21 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 11:45:56 | 51.84 | 45.54 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 11:45:57 | 52.17 | 45.87 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 11:45:57 | 52.49 | 46.19 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 11:45:57 | 52.82 | 46.52 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 11:45:58 | 53.15 | 46.85 | 913 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 11:45:58 | 53.48 | 47.18 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 11:45:59 | 53.81 | 47.51 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 11:45:59 | 54.13 | 47.83 | 879 | 0.54 | 0.17 | 48.1 |
| 5/2/2015 11:45:59 | 54.46 | 48.16 | 847 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 11:46:00 | 54.79 | 48.49 | 847 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 11:46:00 | 55.12 | 48.82 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 11:46:15 | 55.45 | 49.15 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 11:46:17 | 55.77 | 49.47 | 130 | 0.54 | 0.17 | 7.1 |
| 5/2/2015 11:46:18 | 56.10 | 49.80 | 241 | 0.54 | 0.17 | 13.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:46:18 | 56.43 | 50.13 | 309 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 | 11:46:19 | 56.76 | 50.46 | 440 | 0.54 | 0.17 | 24.0 |
| 5/2/2015 | 11:46:19 | 57.09 | 50.79 | 574 | 0.54 | 0.17 | 31.4 |
| 5/2/2015 | 11:46:20 | 57.41 | 51.11 | 700 | 0.54 | 0.17 | 38.3 |
| 5/2/2015 | 11:46:21 | 57.74 | 51.44 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 | 11:46:22 | 58.07 | 51.77 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 | 11:46:23 | 58.40 | 52.10 | 545 | 0.54 | 0.17 | 29.8 |
| 5/2/2015 | 11:46:23 | 58.73 | 52.43 | 493 | 0.54 | 0.17 | 27.0 |
| 5/2/2015 | 11:46:24 | 59.06 | 52.76 | 442 | 0.54 | 0.17 | 24.2 |
| 5/2/2015 | 11:46:25 | 59.38 | 53.08 | 451 | 0.54 | 0.17 | 24.7 |
| 5/2/2015 | 11:46:26 | 59.71 | 53.41 | 396 | 0.54 | 0.17 | 21.6 |
| 5/2/2015 | 11:46:27 | 60.04 | 53.74 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 | 11:46:28 | 60.37 | 54.07 | 337 | 0.54 | 0.17 | 18.4 |
| 5/2/2015 | 11:46:29 | 60.70 | 54.40 | 316 | 0.54 | 0.17 | 17.3 |
| 5/2/2015 | 11:46:31 | 60.87 | 54.57 | 222 | 0.54 | 0.17 | 12.2 |

## O1002 - Summary

**Pattern Number:**
AreaO_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/2/2015 11:43:45

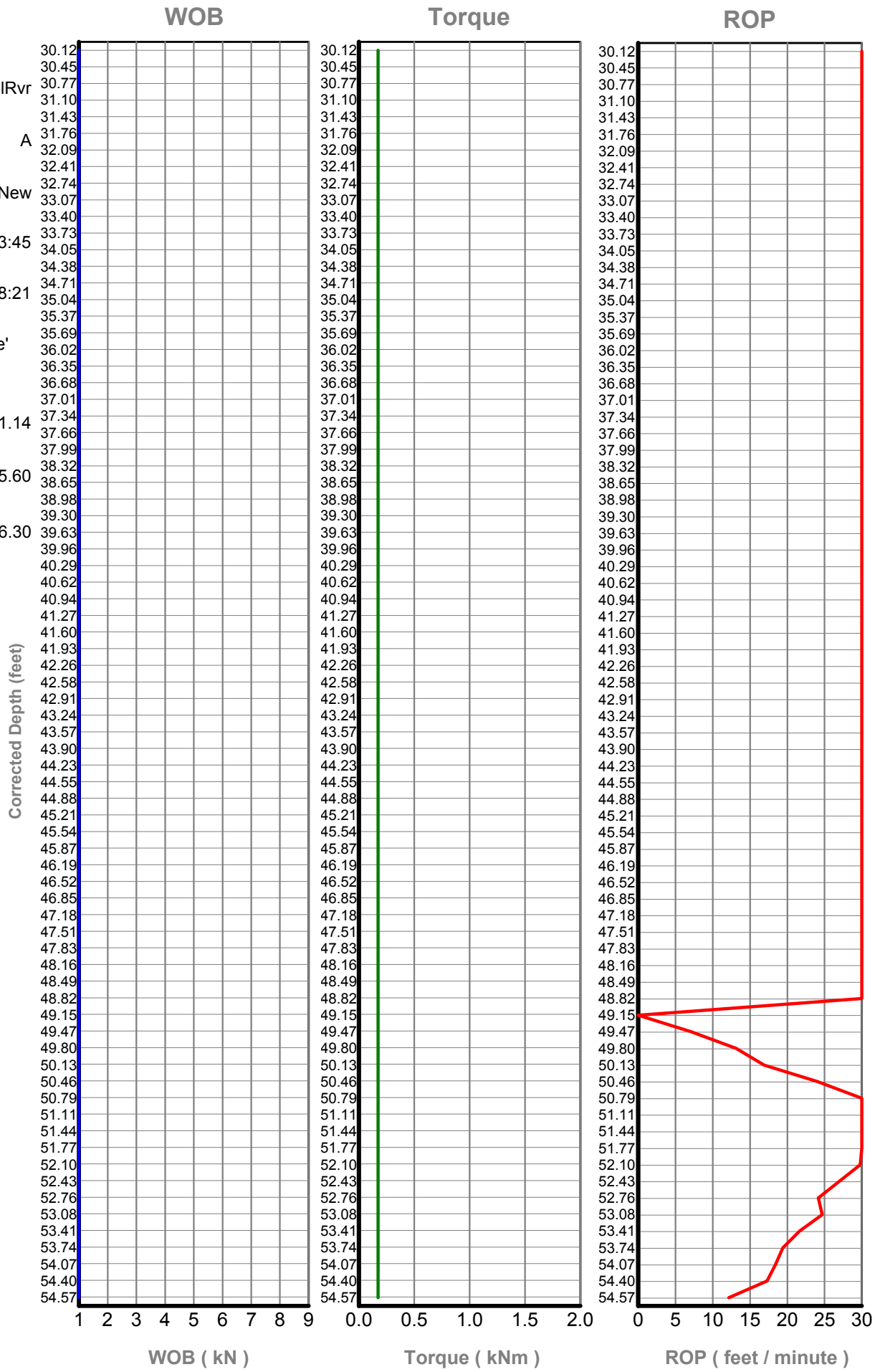
**End Date:**
5/2/2015 11:48:21

**Operator Note:**
'6.3 5.9 a Auto Complete'

**Northing:**
352,551.14

**Easting:**
229,915.60

**Tide (feet):**
6.30



## Hole: O11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:26:58 | 34.45 | 30.25 | 1,175 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:26:58 | 34.78 | 30.58 | 1,175 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:26:58 | 35.11 | 30.91 | 1,169 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 9:26:59 | 35.43 | 31.23 | 1,169 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 9:26:59 | 35.76 | 31.56 | 1,181 | 0.33 | 0.41 | 64.6 |
| 5/2/2015 9:26:59 | 36.09 | 31.89 | 1,181 | 0.33 | 0.41 | 64.6 |
| 5/2/2015 9:26:59 | 36.42 | 32.22 | 1,157 | 0.33 | 0.40 | 63.3 |
| 5/2/2015 9:27:00 | 36.75 | 32.55 | 1,148 | 0.33 | 0.40 | 62.8 |
| 5/2/2015 9:27:00 | 37.07 | 32.87 | 1,148 | 0.33 | 0.40 | 62.8 |
| 5/2/2015 9:27:00 | 37.40 | 33.20 | 1,148 | 0.33 | 0.41 | 62.8 |
| 5/2/2015 9:27:01 | 37.73 | 33.53 | 1,148 | 0.33 | 0.41 | 62.8 |
| 5/2/2015 9:27:01 | 38.06 | 33.86 | 1,157 | 0.33 | 0.40 | 63.3 |
| 5/2/2015 9:27:01 | 38.39 | 34.19 | 1,163 | 0.33 | 0.40 | 63.6 |
| 5/2/2015 9:27:02 | 38.71 | 34.51 | 1,163 | 0.33 | 0.40 | 63.6 |
| 5/2/2015 9:27:02 | 39.04 | 34.84 | 1,166 | 0.33 | 0.41 | 63.8 |
| 5/2/2015 9:27:03 | 39.37 | 35.17 | 1,166 | 0.33 | 0.41 | 63.8 |
| 5/2/2015 9:27:02 | 39.70 | 35.50 | 1,166 | 0.33 | 0.40 | 63.8 |
| 5/2/2015 9:27:03 | 40.03 | 35.83 | 1,166 | 0.33 | 0.40 | 63.8 |
| 5/2/2015 9:27:03 | 40.35 | 36.15 | 1,189 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 9:27:03 | 40.68 | 36.48 | 1,189 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 9:27:04 | 41.01 | 36.81 | 1,189 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 9:27:04 | 41.34 | 37.14 | 1,180 | 0.32 | 0.42 | 64.5 |
| 5/2/2015 9:27:05 | 41.67 | 37.47 | 1,180 | 0.32 | 0.42 | 64.5 |
| 5/2/2015 9:27:05 | 41.99 | 37.79 | 1,173 | 0.33 | 0.40 | 64.1 |
| 5/2/2015 9:27:05 | 42.32 | 38.12 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 9:27:06 | 42.65 | 38.45 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 9:27:06 | 42.98 | 38.78 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 9:27:06 | 43.31 | 39.11 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 9:27:06 | 43.64 | 39.44 | 1,180 | 0.34 | 0.40 | 64.5 |
| 5/2/2015 9:27:07 | 43.96 | 39.76 | 1,180 | 0.34 | 0.40 | 64.5 |
| 5/2/2015 9:27:07 | 44.29 | 40.09 | 1,169 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 9:27:07 | 44.62 | 40.42 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 9:27:08 | 44.95 | 40.75 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 9:27:08 | 45.28 | 41.08 | 1,173 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:08 | 45.60 | 41.40 | 1,173 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:08 | 45.93 | 41.73 | 1,178 | 0.33 | 0.39 | 64.4 |
| 5/2/2015 9:27:09 | 46.26 | 42.06 | 1,173 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:09 | 46.59 | 42.39 | 1,173 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:09 | 46.92 | 42.72 | 1,158 | 0.33 | 0.48 | 63.3 |
| 5/2/2015 9:27:10 | 47.24 | 43.04 | 1,158 | 0.33 | 0.48 | 63.3 |
| 5/2/2015 9:27:10 | 47.57 | 43.37 | 1,158 | 0.34 | 0.39 | 63.3 |
| 5/2/2015 9:27:10 | 47.90 | 43.70 | 1,158 | 0.34 | 0.39 | 63.3 |
| 5/2/2015 9:27:10 | 48.23 | 44.03 | 1,165 | 0.33 | 0.40 | 63.7 |
| 5/2/2015 9:27:11 | 48.56 | 44.36 | 1,168 | 0.33 | 0.41 | 63.9 |
| 5/2/2015 9:27:11 | 48.88 | 44.68 | 1,168 | 0.33 | 0.41 | 63.9 |
| 5/2/2015 9:27:11 | 49.21 | 45.01 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:12 | 49.54 | 45.34 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:12 | 49.87 | 45.67 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 9:27:12 | 50.20 | 46.00 | 1,201 | 0.33 | 0.40 | 65.7 |
| 5/2/2015 9:27:13 | 50.53 | 46.33 | 1,201 | 0.33 | 0.40 | 65.7 |
| 5/2/2015 9:27:13 | 50.85 | 46.65 | 1,173 | 0.33 | 0.40 | 64.1 |
| 5/2/2015 9:27:14 | 51.18 | 46.98 | 1,173 | 0.33 | 0.40 | 64.1 |
| 5/2/2015 9:27:14 | 51.51 | 47.31 | 1,186 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 9:27:14 | 51.84 | 47.64 | 1,186 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 9:27:14 | 52.17 | 47.97 | 1,178 | 0.33 | 0.40 | 64.4 |
| 5/2/2015 9:27:15 | 52.49 | 48.29 | 1,183 | 0.34 | 0.40 | 64.7 |
| 5/2/2015 9:27:15 | 52.82 | 48.62 | 1,183 | 0.34 | 0.40 | 64.7 |
| 5/2/2015 9:27:15 | 53.15 | 48.95 | 1,175 | 0.33 | 0.41 | 64.3 |
| 5/2/2015 9:27:16 | 53.48 | 49.28 | 1,175 | 0.33 | 0.41 | 64.3 |
| 5/2/2015 9:27:16 | 53.81 | 49.61 | 1,154 | 0.33 | 0.41 | 63.1 |
| 5/2/2015 9:27:16 | 54.13 | 49.93 | 1,121 | 0.33 | 0.41 | 61.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:27:17 | 54.46 | 50.26 | 1,121 | 0.33 | 0.41 | 61.3 |
| 5/2/2015 | 9:27:17 | 54.79 | 50.59 | 1,093 | 0.33 | 0.41 | 59.8 |
| 5/2/2015 | 9:27:17 | 55.12 | 50.92 | 1,041 | 0.33 | 0.41 | 56.9 |
| 5/2/2015 | 9:27:18 | 55.45 | 51.25 | 1,041 | 0.33 | 0.41 | 56.9 |
| 5/2/2015 | 9:27:18 | 55.77 | 51.57 | 1,025 | 0.32 | 0.41 | 56.1 |
| 5/2/2015 | 9:27:18 | 56.10 | 51.90 | 1,020 | 2.53 | 0.41 | 55.8 |
| 5/2/2015 | 9:27:19 | 56.43 | 52.23 | 1,005 | 2.42 | 0.41 | 54.9 |
| 5/2/2015 | 9:27:19 | 56.76 | 52.56 | 1,005 | 2.42 | 0.41 | 54.9 |
| 5/2/2015 | 9:27:20 | 57.09 | 52.89 | 621 | 2.29 | 0.40 | 33.9 |
| 5/2/2015 | 9:27:21 | 57.41 | 53.21 | 612 | 2.28 | 0.40 | 33.5 |
| 5/2/2015 | 9:27:21 | 57.74 | 53.54 | 612 | 2.28 | 0.40 | 33.5 |
| 5/2/2015 | 9:27:21 | 58.07 | 53.87 | 623 | 2.29 | 0.41 | 34.1 |
| 5/2/2015 | 9:27:22 | 58.40 | 54.20 | 623 | 2.29 | 0.41 | 34.1 |
| 5/2/2015 | 9:27:22 | 58.73 | 54.53 | 632 | 2.31 | 0.41 | 34.5 |
| 5/2/2015 | 9:27:22 | 59.06 | 54.86 | 823 | 2.32 | 0.41 | 45.0 |
| 5/2/2015 | 9:27:22 | 59.27 | 55.07 | 823 | 2.32 | 0.41 | 45.0 |

## O11 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:25:13

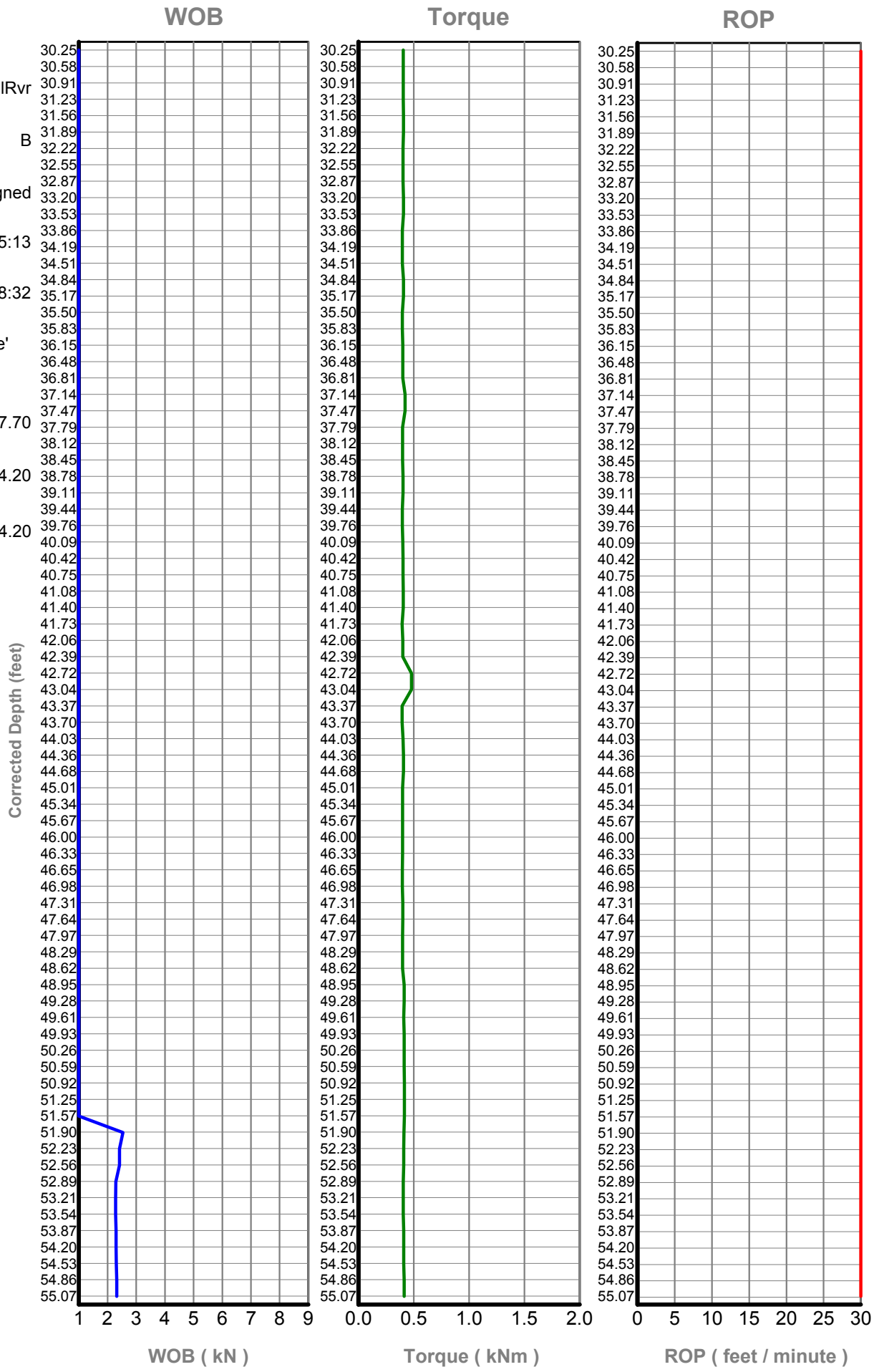
**End Date:**
5/2/2015 9:28:32

**Operator Note:**
'4.2 4.0 b Auto Complete'

**Northing:**
352,237.70

**Easting:**
229,144.20

**Tide (feet):**
4.20



## Hole: O12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:40:06 | 34.78 | 30.28 | 1,173 | 0.44 | 0.43 | 64.2 |
| 5/2/2015 9:40:06 | 35.11 | 30.61 | 1,201 | 0.43 | 0.43 | 65.7 |
| 5/2/2015 9:40:07 | 35.43 | 30.93 | 1,201 | 0.43 | 0.43 | 65.7 |
| 5/2/2015 9:40:07 | 35.76 | 31.26 | 1,192 | 0.43 | 0.42 | 65.2 |
| 5/2/2015 9:40:07 | 36.09 | 31.59 | 1,196 | 0.41 | 0.42 | 65.4 |
| 5/2/2015 9:40:08 | 36.42 | 31.92 | 1,196 | 0.41 | 0.42 | 65.4 |
| 5/2/2015 9:40:08 | 36.75 | 32.25 | 1,172 | 0.34 | 0.41 | 64.1 |
| 5/2/2015 9:40:08 | 37.07 | 32.57 | 1,172 | 0.34 | 0.41 | 64.1 |
| 5/2/2015 9:40:08 | 37.40 | 32.90 | 1,180 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 9:40:09 | 37.73 | 33.23 | 1,180 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 9:40:09 | 38.06 | 33.56 | 1,189 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 9:40:09 | 38.39 | 33.89 | 1,189 | 0.32 | 0.40 | 65.0 |
| 5/2/2015 9:40:10 | 38.71 | 34.21 | 1,189 | 0.32 | 0.40 | 65.0 |
| 5/2/2015 9:40:10 | 39.04 | 34.54 | 1,172 | 0.31 | 0.41 | 64.1 |
| 5/2/2015 9:40:10 | 39.37 | 34.87 | 1,172 | 0.31 | 0.41 | 64.1 |
| 5/2/2015 9:40:10 | 39.70 | 35.20 | 1,172 | 0.31 | 0.41 | 64.1 |
| 5/2/2015 9:40:11 | 40.03 | 35.53 | 1,172 | 0.31 | 0.41 | 64.1 |
| 5/2/2015 9:40:11 | 40.35 | 35.85 | 1,204 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:11 | 40.68 | 36.18 | 1,198 | 0.31 | 0.40 | 65.5 |
| 5/2/2015 9:40:12 | 41.01 | 36.51 | 1,198 | 0.31 | 0.40 | 65.5 |
| 5/2/2015 9:40:12 | 41.34 | 36.84 | 1,202 | 0.32 | 0.40 | 65.8 |
| 5/2/2015 9:40:12 | 41.67 | 37.17 | 1,202 | 0.32 | 0.40 | 65.8 |
| 5/2/2015 9:40:12 | 41.99 | 37.49 | 1,196 | 0.31 | 0.40 | 65.4 |
| 5/2/2015 9:40:13 | 42.32 | 37.82 | 1,196 | 0.31 | 0.40 | 65.4 |
| 5/2/2015 9:40:13 | 42.65 | 38.15 | 1,223 | 0.32 | 0.41 | 66.9 |
| 5/2/2015 9:40:13 | 42.98 | 38.48 | 1,211 | 0.24 | 0.41 | 66.2 |
| 5/2/2015 9:40:14 | 43.31 | 38.81 | 1,211 | 0.24 | 0.41 | 66.2 |
| 5/2/2015 9:40:14 | 43.64 | 39.14 | 1,208 | 0.32 | 0.40 | 66.1 |
| 5/2/2015 9:40:15 | 43.96 | 39.46 | 1,208 | 0.32 | 0.40 | 66.1 |
| 5/2/2015 9:40:15 | 44.29 | 39.79 | 1,204 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:15 | 44.62 | 40.12 | 1,204 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:15 | 44.95 | 40.45 | 1,220 | 0.32 | 0.41 | 66.7 |
| 5/2/2015 9:40:16 | 45.28 | 40.78 | 1,220 | 0.32 | 0.41 | 66.7 |
| 5/2/2015 9:40:16 | 45.60 | 41.10 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/2/2015 9:40:16 | 45.93 | 41.43 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/2/2015 9:40:17 | 46.26 | 41.76 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/2/2015 9:40:17 | 46.59 | 42.09 | 1,217 | 0.31 | 0.39 | 66.6 |
| 5/2/2015 9:40:17 | 46.92 | 42.42 | 1,217 | 0.31 | 0.39 | 66.6 |
| 5/2/2015 9:40:17 | 47.24 | 42.74 | 1,220 | 0.31 | 0.40 | 66.7 |
| 5/2/2015 9:40:18 | 47.57 | 43.07 | 1,220 | 0.31 | 0.40 | 66.7 |
| 5/2/2015 9:40:18 | 47.90 | 43.40 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/2/2015 9:40:18 | 48.23 | 43.73 | 1,217 | 0.31 | 0.40 | 66.5 |
| 5/2/2015 9:40:19 | 48.56 | 44.06 | 1,217 | 0.31 | 0.40 | 66.5 |
| 5/2/2015 9:40:19 | 48.88 | 44.38 | 1,212 | 0.30 | 0.40 | 66.3 |
| 5/2/2015 9:40:19 | 49.21 | 44.71 | 1,212 | 0.30 | 0.40 | 66.3 |
| 5/2/2015 9:40:19 | 49.54 | 45.04 | 1,223 | 0.31 | 0.39 | 66.9 |
| 5/2/2015 9:40:20 | 49.87 | 45.37 | 1,223 | 0.31 | 0.39 | 66.9 |
| 5/2/2015 9:40:20 | 50.20 | 45.70 | 1,203 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:20 | 50.53 | 46.03 | 1,203 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:20 | 50.85 | 46.35 | 1,203 | 0.31 | 0.40 | 65.8 |
| 5/2/2015 9:40:21 | 51.18 | 46.68 | 1,209 | 0.31 | 0.41 | 66.1 |
| 5/2/2015 9:40:21 | 51.51 | 47.01 | 1,209 | 0.31 | 0.41 | 66.1 |
| 5/2/2015 9:40:21 | 51.84 | 47.34 | 1,211 | 0.30 | 0.42 | 66.2 |
| 5/2/2015 9:40:22 | 52.17 | 47.67 | 1,211 | 0.30 | 0.42 | 66.2 |
| 5/2/2015 9:40:22 | 52.49 | 47.99 | 1,160 | 0.31 | 0.43 | 63.4 |
| 5/2/2015 9:40:28 | 52.82 | 48.32 | 0 | 2.09 | 0.40 | 0.0 |
| 5/2/2015 9:40:28 | 53.15 | 48.65 | 144 | 2.08 | 0.40 | 7.9 |
| 5/2/2015 9:40:29 | 53.48 | 48.98 | 364 | 2.12 | 0.41 | 19.9 |
| 5/2/2015 9:40:29 | 53.81 | 49.31 | 364 | 2.12 | 0.41 | 19.9 |
| 5/2/2015 9:40:29 | 54.13 | 49.63 | 581 | 2.10 | 0.41 | 31.8 |
| 5/2/2015 9:40:30 | 54.46 | 49.96 | 581 | 2.10 | 0.41 | 31.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:40:30 | 54.79 | 50.29 | 805 | 2.10 | 0.41 | 44.0 |
| 5/2/2015 | 9:40:30 | 55.12 | 50.62 | 1,019 | 2.10 | 0.41 | 55.7 |
| 5/2/2015 | 9:40:31 | 55.45 | 50.95 | 1,019 | 2.10 | 0.41 | 55.7 |
| 5/2/2015 | 9:40:31 | 55.77 | 51.27 | 1,093 | 2.12 | 0.41 | 59.7 |
| 5/2/2015 | 9:40:31 | 56.10 | 51.60 | 1,084 | 2.13 | 0.41 | 59.3 |
| 5/2/2015 | 9:40:32 | 56.43 | 51.93 | 1,084 | 2.13 | 0.41 | 59.3 |
| 5/2/2015 | 9:40:32 | 56.76 | 52.26 | 1,081 | 2.13 | 0.41 | 59.1 |
| 5/2/2015 | 9:40:32 | 57.09 | 52.59 | 1,069 | 2.14 | 0.41 | 58.5 |
| 5/2/2015 | 9:40:33 | 57.41 | 52.91 | 1,069 | 2.14 | 0.41 | 58.5 |
| 5/2/2015 | 9:40:33 | 57.74 | 53.24 | 1,064 | 2.15 | 0.41 | 58.2 |
| 5/2/2015 | 9:40:33 | 58.07 | 53.57 | 1,049 | 2.14 | 0.42 | 57.3 |
| 5/2/2015 | 9:40:34 | 58.40 | 53.90 | 1,049 | 2.14 | 0.42 | 57.3 |
| 5/2/2015 | 9:40:34 | 58.73 | 54.23 | 1,037 | 2.14 | 0.42 | 56.7 |
| 5/2/2015 | 9:40:34 | 59.06 | 54.56 | 1,032 | 2.12 | 0.40 | 56.5 |
| 5/2/2015 | 9:40:35 | 59.38 | 54.88 | 1,032 | 2.12 | 0.40 | 56.5 |
| 5/2/2015 | 9:40:35 | 59.67 | 55.17 | 1,038 | 2.03 | 0.43 | 56.8 |

## O12 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:38:22

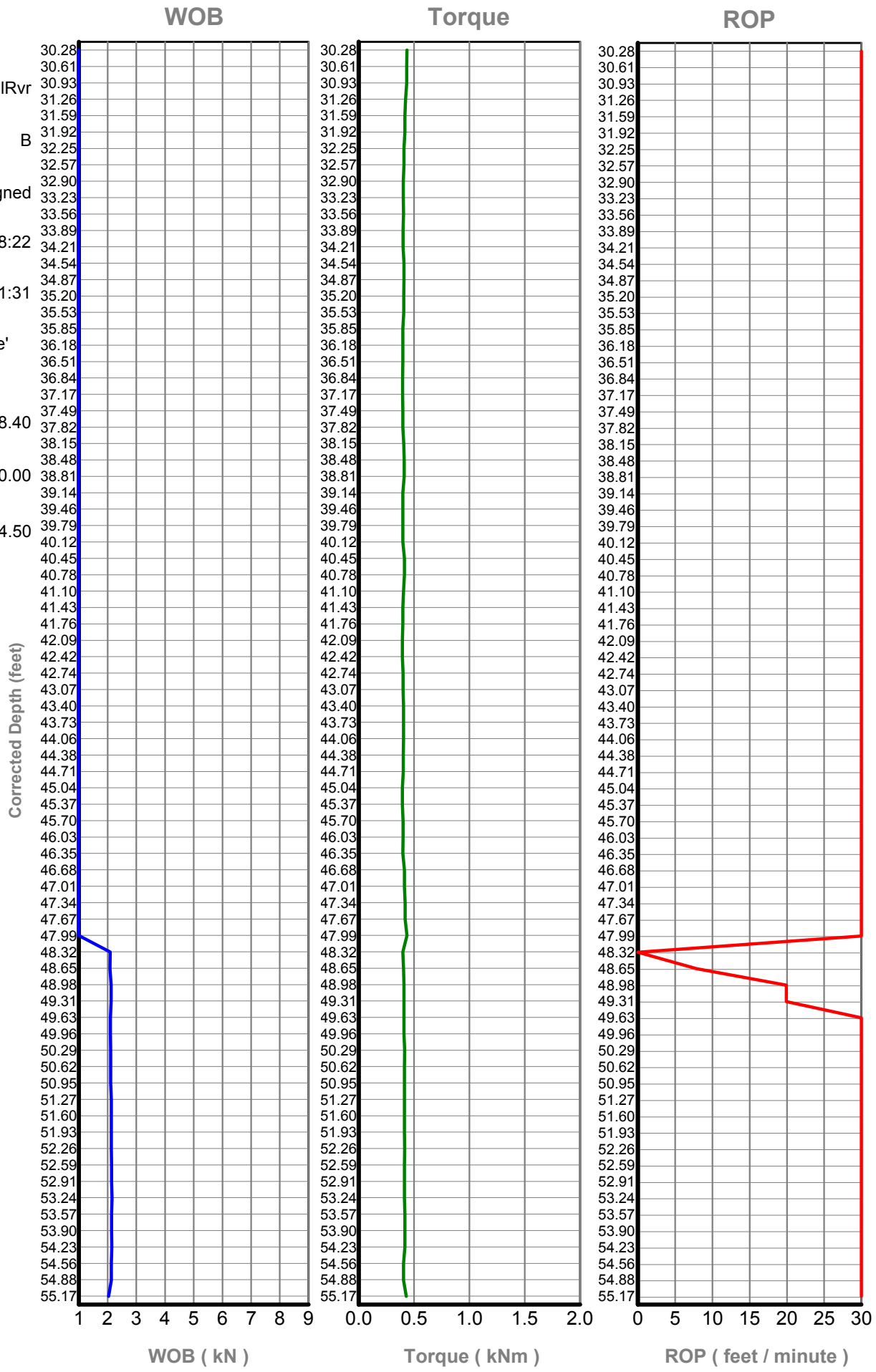
**End Date:**
5/2/2015 9:41:31

**Operator Note:**
'4.5 4.4 b Auto Complete'

**Northing:**
352,308.40

**Easting:**
229,230.00

**Tide (feet):**
4.50



## Hole: O13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:06:16 | 35.11 | 30.11 | 1,246 | 0.31 | 0.39 | 68.1 |
| 5/2/2015 10:06:17 | 35.43 | 30.43 | 1,246 | 0.31 | 0.39 | 68.1 |
| 5/2/2015 10:06:17 | 35.76 | 30.76 | 1,252 | 0.32 | 0.40 | 68.4 |
| 5/2/2015 10:06:18 | 36.09 | 31.09 | 1,252 | 0.32 | 0.40 | 68.4 |
| 5/2/2015 10:06:18 | 36.42 | 31.42 | 1,230 | 0.33 | 0.39 | 67.2 |
| 5/2/2015 10:06:18 | 36.75 | 31.75 | 1,237 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 10:06:19 | 37.07 | 32.07 | 1,237 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 10:06:19 | 37.40 | 32.40 | 1,243 | 0.30 | 0.41 | 68.0 |
| 5/2/2015 10:06:19 | 37.73 | 32.73 | 1,243 | 0.30 | 0.41 | 68.0 |
| 5/2/2015 10:06:19 | 38.06 | 33.06 | 1,230 | 0.31 | 0.39 | 67.3 |
| 5/2/2015 10:06:20 | 38.39 | 33.39 | 1,230 | 0.31 | 0.39 | 67.3 |
| 5/2/2015 10:06:20 | 38.71 | 33.71 | 1,230 | 0.29 | 0.39 | 67.3 |
| 5/2/2015 10:06:20 | 39.04 | 34.04 | 1,230 | 0.29 | 0.39 | 67.3 |
| 5/2/2015 10:06:20 | 39.37 | 34.37 | 1,236 | 0.29 | 0.39 | 67.6 |
| 5/2/2015 10:06:21 | 39.70 | 34.70 | 1,236 | 0.29 | 0.39 | 67.6 |
| 5/2/2015 10:06:21 | 40.03 | 35.03 | 1,226 | 0.28 | 0.39 | 67.0 |
| 5/2/2015 10:06:21 | 40.35 | 35.35 | 1,220 | 0.29 | 0.40 | 66.7 |
| 5/2/2015 10:06:22 | 40.68 | 35.68 | 1,220 | 0.29 | 0.40 | 66.7 |
| 5/2/2015 10:06:22 | 41.01 | 36.01 | 1,220 | 0.29 | 0.39 | 66.7 |
| 5/2/2015 10:06:22 | 41.34 | 36.34 | 1,220 | 0.29 | 0.39 | 66.7 |
| 5/2/2015 10:06:22 | 41.67 | 36.67 | 1,236 | 0.30 | 0.39 | 67.6 |
| 5/2/2015 10:06:23 | 41.99 | 36.99 | 1,236 | 0.30 | 0.39 | 67.6 |
| 5/2/2015 10:06:23 | 42.32 | 37.32 | 1,254 | 0.29 | 0.39 | 68.6 |
| 5/2/2015 10:06:23 | 42.65 | 37.65 | 1,254 | 0.29 | 0.39 | 68.6 |
| 5/2/2015 10:06:23 | 42.98 | 37.98 | 1,254 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 10:06:24 | 43.31 | 38.31 | 1,254 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 10:06:24 | 43.64 | 38.64 | 1,239 | 0.30 | 0.39 | 67.7 |
| 5/2/2015 10:06:24 | 43.96 | 38.96 | 1,239 | 0.30 | 0.40 | 67.7 |
| 5/2/2015 10:06:25 | 44.29 | 39.29 | 1,239 | 0.30 | 0.40 | 67.7 |
| 5/2/2015 10:06:25 | 44.62 | 39.62 | 1,276 | 0.30 | 0.40 | 69.8 |
| 5/2/2015 10:06:26 | 44.95 | 39.95 | 1,276 | 0.30 | 0.40 | 69.8 |
| 5/2/2015 10:06:26 | 45.28 | 40.28 | 1,242 | 0.30 | 0.40 | 67.9 |
| 5/2/2015 10:06:26 | 45.60 | 40.60 | 1,242 | 0.30 | 0.40 | 67.9 |
| 5/2/2015 10:06:26 | 45.93 | 40.93 | 1,246 | 0.30 | 0.39 | 68.1 |
| 5/2/2015 10:06:26 | 46.26 | 41.26 | 1,246 | 0.30 | 0.39 | 68.1 |
| 5/2/2015 10:06:27 | 46.59 | 41.59 | 1,246 | 0.30 | 0.39 | 68.1 |
| 5/2/2015 10:06:27 | 46.92 | 41.92 | 1,246 | 0.30 | 0.39 | 68.1 |
| 5/2/2015 10:06:27 | 47.24 | 42.24 | 1,242 | 0.30 | 0.39 | 67.9 |
| 5/2/2015 10:06:28 | 47.57 | 42.57 | 1,242 | 0.30 | 0.40 | 67.9 |
| 5/2/2015 10:06:28 | 47.90 | 42.90 | 1,242 | 0.30 | 0.40 | 67.9 |
| 5/2/2015 10:06:28 | 48.23 | 43.23 | 1,254 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 10:06:29 | 48.56 | 43.56 | 1,254 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 10:06:29 | 48.88 | 43.88 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/2/2015 10:06:29 | 49.21 | 44.21 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/2/2015 10:06:29 | 49.54 | 44.54 | 1,232 | 0.30 | 0.40 | 67.4 |
| 5/2/2015 10:06:30 | 49.87 | 44.87 | 1,232 | 0.30 | 0.40 | 67.4 |
| 5/2/2015 10:06:30 | 50.20 | 45.20 | 1,276 | 0.29 | 0.39 | 69.8 |
| 5/2/2015 10:06:30 | 50.53 | 45.53 | 1,276 | 0.29 | 0.39 | 69.8 |
| 5/2/2015 10:06:30 | 50.85 | 45.85 | 1,276 | 0.30 | 0.39 | 69.8 |
| 5/2/2015 10:06:31 | 51.18 | 46.18 | 1,275 | 0.30 | 0.39 | 69.7 |
| 5/2/2015 10:06:31 | 51.51 | 46.51 | 1,275 | 0.30 | 0.39 | 69.7 |
| 5/2/2015 10:06:31 | 51.84 | 46.84 | 1,243 | 0.30 | 0.40 | 68.0 |
| 5/2/2015 10:06:32 | 52.17 | 47.17 | 1,243 | 0.30 | 0.40 | 68.0 |
| 5/2/2015 10:06:32 | 52.49 | 47.49 | 1,263 | 0.30 | 0.40 | 69.0 |
| 5/2/2015 10:06:32 | 52.82 | 47.82 | 1,263 | 0.30 | 0.40 | 69.0 |
| 5/2/2015 10:06:32 | 53.15 | 48.15 | 1,258 | 0.29 | 0.46 | 68.8 |
| 5/2/2015 10:06:39 | 53.48 | 48.48 | 55 | 2.95 | 0.45 | 3.0 |
| 5/2/2015 10:06:44 | 53.81 | 48.81 | 28 | 3.96 | 0.45 | 1.5 |
| 5/2/2015 10:06:45 | 54.13 | 49.13 | 132 | 4.50 | 0.46 | 7.2 |
| 5/2/2015 10:06:46 | 54.46 | 49.46 | 213 | 4.28 | 0.46 | 11.7 |
| 5/2/2015 10:06:55 | 54.79 | 49.79 | 0 | 5.92 | 0.51 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:06:57 | 55.12 | 50.12 | 46 | 2.89 | 0.45 | 2.5 |
| 5/2/2015 | 10:06:58 | 55.45 | 50.45 | 213 | 3.69 | 0.47 | 11.7 |
| 5/2/2015 | 10:08:27 | 55.77 | 50.77 | 0 | 5.57 | 0.48 | 0.0 |
| 5/2/2015 | 10:08:51 | 56.10 | 51.10 | 0 | 5.21 | 0.48 | 0.0 |
| 5/2/2015 | 10:08:53 | 56.43 | 51.43 | 80 | 4.18 | 0.47 | 4.4 |
| 5/2/2015 | 10:09:04 | 56.76 | 51.76 | 36 | 4.54 | 0.49 | 2.0 |
| 5/2/2015 | 10:09:05 | 57.09 | 52.09 | 135 | 6.13 | 0.47 | 7.4 |
| 5/2/2015 | 10:09:13 | 57.41 | 52.41 | 0 | 3.10 | 0.46 | 0.0 |
| 5/2/2015 | 10:09:13 | 57.74 | 52.74 | 82 | 3.33 | 0.46 | 4.5 |
| 5/2/2015 | 10:09:16 | 58.07 | 53.07 | 154 | 2.04 | 0.42 | 8.4 |
| 5/2/2015 | 10:09:17 | 58.40 | 53.40 | 292 | 1.91 | 0.42 | 16.0 |
| 5/2/2015 | 10:09:17 | 58.73 | 53.73 | 292 | 1.91 | 0.42 | 16.0 |
| 5/2/2015 | 10:09:17 | 59.06 | 54.06 | 412 | 2.10 | 0.43 | 22.5 |
| 5/2/2015 | 10:09:18 | 59.38 | 54.38 | 580 | 3.79 | 0.44 | 31.7 |
| 5/2/2015 | 10:09:19 | 59.71 | 54.71 | 777 | 4.71 | 0.40 | 42.5 |
| 5/2/2015 | 10:09:20 | 60.04 | 55.04 | 338 | 4.38 | 0.49 | 18.5 |
| 5/2/2015 | 10:09:21 | 60.10 | 55.10 | 176 | 4.25 | 0.47 | 9.6 |

## O13 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:04:35

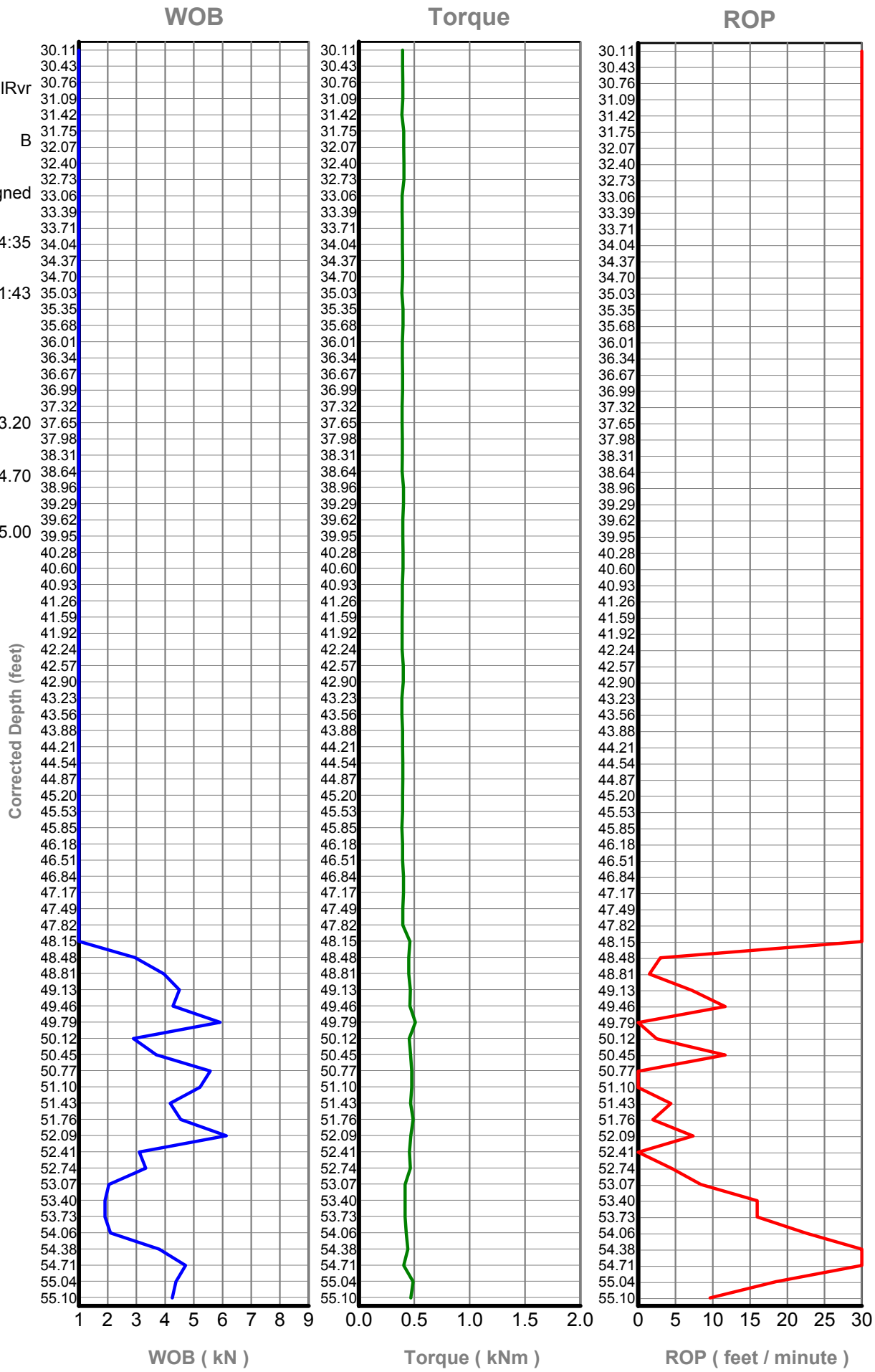
**End Date:**
5/2/2015 10:11:43

**Operator Note:**
'5 3.4 b Auto Complete
4.9 b'

**Northing:**
352,553.20

**Easting:**
229,634.70

**Tide (feet):**
5.00



## Hole: O14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:20:06 | 35.43 | 30.03 | 1,264 | 0.30 | 0.38 | 69.1 |
| 5/2/2015 10:20:06 | 35.76 | 30.36 | 1,285 | 0.29 | 0.39 | 70.3 |
| 5/2/2015 10:20:06 | 36.09 | 30.69 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 10:20:07 | 36.42 | 31.02 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 10:20:07 | 36.75 | 31.35 | 1,277 | 0.30 | 0.39 | 69.8 |
| 5/2/2015 10:20:07 | 37.07 | 31.67 | 1,277 | 0.30 | 0.39 | 69.8 |
| 5/2/2015 10:20:07 | 37.40 | 32.00 | 1,266 | 0.30 | 0.40 | 69.3 |
| 5/2/2015 10:20:08 | 37.73 | 32.33 | 1,266 | 0.30 | 0.40 | 69.3 |
| 5/2/2015 10:20:08 | 38.06 | 32.66 | 1,301 | 0.30 | 0.38 | 71.1 |
| 5/2/2015 10:20:08 | 38.39 | 32.99 | 1,301 | 0.30 | 0.38 | 71.1 |
| 5/2/2015 10:20:08 | 38.71 | 33.31 | 1,287 | 0.31 | 0.39 | 70.4 |
| 5/2/2015 10:20:09 | 39.04 | 33.64 | 1,287 | 0.31 | 0.39 | 70.4 |
| 5/2/2015 10:20:09 | 39.37 | 33.97 | 1,293 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 10:20:10 | 39.70 | 34.30 | 1,293 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 10:20:09 | 40.03 | 34.63 | 1,284 | 0.33 | 0.39 | 70.2 |
| 5/2/2015 10:20:10 | 40.35 | 34.95 | 1,284 | 0.33 | 0.39 | 70.2 |
| 5/2/2015 10:20:10 | 40.68 | 35.28 | 1,313 | 0.37 | 0.42 | 71.8 |
| 5/2/2015 10:20:11 | 41.01 | 35.61 | 1,290 | 0.30 | 0.41 | 70.6 |
| 5/2/2015 10:20:11 | 41.34 | 35.94 | 1,290 | 0.30 | 0.41 | 70.6 |
| 5/2/2015 10:20:11 | 41.67 | 36.27 | 1,285 | 0.30 | 0.41 | 70.2 |
| 5/2/2015 10:20:12 | 41.99 | 36.59 | 1,285 | 0.30 | 0.41 | 70.2 |
| 5/2/2015 10:20:12 | 42.32 | 36.92 | 1,258 | 0.35 | 0.40 | 68.8 |
| 5/2/2015 10:20:12 | 42.65 | 37.25 | 1,258 | 0.35 | 0.40 | 68.8 |
| 5/2/2015 10:20:12 | 42.98 | 37.58 | 1,258 | 0.32 | 0.38 | 68.8 |
| 5/2/2015 10:20:13 | 43.31 | 37.91 | 1,258 | 0.32 | 0.38 | 68.8 |
| 5/2/2015 10:20:13 | 43.64 | 38.24 | 1,280 | 0.25 | 0.37 | 70.0 |
| 5/2/2015 10:20:13 | 43.96 | 38.56 | 1,280 | 0.25 | 0.37 | 70.0 |
| 5/2/2015 10:20:13 | 44.29 | 38.89 | 1,250 | 0.34 | 0.37 | 68.3 |
| 5/2/2015 10:20:14 | 44.62 | 39.22 | 1,250 | 0.34 | 0.37 | 68.3 |
| 5/2/2015 10:20:14 | 44.95 | 39.55 | 1,239 | 0.32 | 0.40 | 67.7 |
| 5/2/2015 10:20:14 | 45.28 | 39.88 | 1,239 | 0.32 | 0.38 | 67.7 |
| 5/2/2015 10:20:15 | 45.60 | 40.20 | 1,239 | 0.32 | 0.38 | 67.7 |
| 5/2/2015 10:20:15 | 45.93 | 40.53 | 1,247 | 0.31 | 0.38 | 68.2 |
| 5/2/2015 10:20:15 | 46.26 | 40.86 | 1,247 | 0.31 | 0.38 | 68.2 |
| 5/2/2015 10:20:15 | 46.59 | 41.19 | 1,278 | 0.31 | 0.40 | 69.9 |
| 5/2/2015 10:20:16 | 46.92 | 41.52 | 1,278 | 0.31 | 0.40 | 69.9 |
| 5/2/2015 10:20:16 | 47.24 | 41.84 | 1,261 | 0.30 | 0.39 | 68.9 |
| 5/2/2015 10:20:16 | 47.57 | 42.17 | 1,261 | 0.30 | 0.39 | 68.9 |
| 5/2/2015 10:20:16 | 47.90 | 42.50 | 1,269 | 0.30 | 0.40 | 69.4 |
| 5/2/2015 10:20:17 | 48.23 | 42.83 | 1,269 | 0.30 | 0.40 | 69.4 |
| 5/2/2015 10:20:17 | 48.56 | 43.16 | 1,294 | 0.31 | 0.40 | 70.7 |
| 5/2/2015 10:20:17 | 48.88 | 43.48 | 1,294 | 0.31 | 0.40 | 70.7 |
| 5/2/2015 10:20:17 | 49.21 | 43.81 | 1,283 | 0.31 | 0.40 | 70.2 |
| 5/2/2015 10:20:18 | 49.54 | 44.14 | 1,283 | 0.31 | 0.40 | 70.2 |
| 5/2/2015 10:20:18 | 49.87 | 44.47 | 1,276 | 0.31 | 0.40 | 69.8 |
| 5/2/2015 10:20:18 | 50.20 | 44.80 | 1,286 | 0.31 | 0.39 | 70.3 |
| 5/2/2015 10:20:19 | 50.53 | 45.13 | 1,286 | 0.31 | 0.39 | 70.3 |
| 5/2/2015 10:20:19 | 50.85 | 45.45 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 10:20:19 | 51.18 | 45.78 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 10:20:19 | 51.51 | 46.11 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/2/2015 10:20:20 | 51.84 | 46.44 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/2/2015 10:20:20 | 52.17 | 46.77 | 1,284 | 0.29 | 0.46 | 70.2 |
| 5/2/2015 10:20:27 | 52.49 | 47.09 | 35 | 3.27 | 0.47 | 1.9 |
| 5/2/2015 10:20:32 | 52.82 | 47.42 | 84 | 3.39 | 0.48 | 4.6 |
| 5/2/2015 10:20:42 | 53.15 | 47.75 | 29 | 2.74 | 0.50 | 1.6 |
| 5/2/2015 10:20:55 | 53.48 | 48.08 | 25 | 2.86 | 0.50 | 1.4 |
| 5/2/2015 10:21:09 | 53.81 | 48.41 | 26 | 2.62 | 0.58 | 1.4 |
| 5/2/2015 10:21:19 | 54.07 | 48.67 | 27 | 2.99 | 0.50 | 1.5 |

## O14 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:18:14

**End Date:**
5/2/2015 10:22:23

**Operator Note:**
'5.4 5.1 b Auto Complete'

**Northing:**
352,603.00

**Easting:**
229,708.60

**Tide (feet):**
5.40



## Hole: O15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:33:27 | 35.76 | 30.16 | 1,270 | 0.30 | 0.40 | 69.5 |
| 5/2/2015 10:33:27 | 36.09 | 30.49 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 10:33:27 | 36.42 | 30.82 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 10:33:27 | 36.75 | 31.15 | 1,278 | 0.29 | 0.40 | 69.9 |
| 5/2/2015 10:33:28 | 37.07 | 31.47 | 1,278 | 0.29 | 0.40 | 69.9 |
| 5/2/2015 10:33:28 | 37.40 | 31.80 | 1,271 | 0.30 | 0.39 | 69.5 |
| 5/2/2015 10:33:28 | 37.73 | 32.13 | 1,271 | 0.30 | 0.39 | 69.5 |
| 5/2/2015 10:33:28 | 38.06 | 32.46 | 1,286 | 0.29 | 0.39 | 70.3 |
| 5/2/2015 10:33:29 | 38.39 | 32.79 | 1,286 | 0.29 | 0.39 | 70.3 |
| 5/2/2015 10:33:29 | 38.71 | 33.11 | 1,286 | 0.29 | 0.40 | 70.3 |
| 5/2/2015 10:33:29 | 39.04 | 33.44 | 1,281 | 0.30 | 0.39 | 70.0 |
| 5/2/2015 10:33:30 | 39.37 | 33.77 | 1,281 | 0.30 | 0.39 | 70.0 |
| 5/2/2015 10:33:30 | 39.70 | 34.10 | 1,283 | 0.30 | 0.38 | 70.2 |
| 5/2/2015 10:33:30 | 40.03 | 34.43 | 1,283 | 0.30 | 0.38 | 70.2 |
| 5/2/2015 10:33:30 | 40.35 | 34.75 | 1,297 | 0.29 | 0.39 | 70.9 |
| 5/2/2015 10:33:31 | 40.68 | 35.08 | 1,297 | 0.29 | 0.39 | 70.9 |
| 5/2/2015 10:33:31 | 41.01 | 35.41 | 1,289 | 0.42 | 0.39 | 70.5 |
| 5/2/2015 10:33:31 | 41.34 | 35.74 | 1,289 | 0.42 | 0.39 | 70.5 |
| 5/2/2015 10:33:31 | 41.67 | 36.07 | 1,286 | 0.30 | 0.40 | 70.3 |
| 5/2/2015 10:33:32 | 41.99 | 36.39 | 1,286 | 0.30 | 0.40 | 70.3 |
| 5/2/2015 10:33:32 | 42.32 | 36.72 | 1,279 | 0.30 | 0.40 | 69.9 |
| 5/2/2015 10:33:33 | 42.65 | 37.05 | 1,279 | 0.30 | 0.40 | 69.9 |
| 5/2/2015 10:33:33 | 42.98 | 37.38 | 1,289 | 0.30 | 0.40 | 70.5 |
| 5/2/2015 10:33:33 | 43.31 | 37.71 | 1,289 | 0.30 | 0.40 | 70.5 |
| 5/2/2015 10:33:33 | 43.64 | 38.04 | 1,276 | 0.30 | 0.40 | 69.8 |
| 5/2/2015 10:33:34 | 43.96 | 38.36 | 1,284 | 0.30 | 0.39 | 70.2 |
| 5/2/2015 10:33:34 | 44.29 | 38.69 | 1,284 | 0.30 | 0.39 | 70.2 |
| 5/2/2015 10:33:34 | 44.62 | 39.02 | 1,286 | 0.30 | 0.39 | 70.3 |
| 5/2/2015 10:33:35 | 44.95 | 39.35 | 1,286 | 0.30 | 0.39 | 70.3 |
| 5/2/2015 10:33:35 | 45.28 | 39.68 | 1,286 | 0.30 | 0.38 | 70.3 |
| 5/2/2015 10:33:35 | 45.60 | 40.00 | 1,286 | 0.30 | 0.38 | 70.3 |
| 5/2/2015 10:33:35 | 45.93 | 40.33 | 1,276 | 0.29 | 0.40 | 69.8 |
| 5/2/2015 10:33:36 | 46.26 | 40.66 | 1,276 | 0.29 | 0.40 | 69.8 |
| 5/2/2015 10:33:36 | 46.59 | 40.99 | 1,276 | 0.30 | 0.39 | 69.8 |
| 5/2/2015 10:33:36 | 46.92 | 41.32 | 1,276 | 0.30 | 0.39 | 69.8 |
| 5/2/2015 10:33:36 | 47.24 | 41.64 | 1,265 | 0.30 | 0.39 | 69.2 |
| 5/2/2015 10:33:37 | 47.57 | 41.97 | 1,265 | 0.30 | 0.39 | 69.2 |
| 5/2/2015 10:33:37 | 47.90 | 42.30 | 1,284 | 0.31 | 0.38 | 70.2 |
| 5/2/2015 10:33:37 | 48.23 | 42.63 | 1,284 | 0.31 | 0.38 | 70.2 |
| 5/2/2015 10:33:37 | 48.56 | 42.96 | 1,292 | 0.30 | 0.39 | 70.7 |
| 5/2/2015 10:33:38 | 48.88 | 43.28 | 1,289 | 0.30 | 0.39 | 70.5 |
| 5/2/2015 10:33:38 | 49.21 | 43.61 | 1,289 | 0.30 | 0.39 | 70.5 |
| 5/2/2015 10:33:38 | 49.54 | 43.94 | 1,292 | 0.30 | 0.39 | 70.7 |
| 5/2/2015 10:33:39 | 49.87 | 44.27 | 1,292 | 0.30 | 0.39 | 70.7 |
| 5/2/2015 10:33:39 | 50.20 | 44.60 | 1,305 | 0.31 | 0.39 | 71.4 |
| 5/2/2015 10:33:39 | 50.53 | 44.93 | 1,305 | 0.31 | 0.39 | 71.4 |
| 5/2/2015 10:33:39 | 50.85 | 45.25 | 1,284 | 0.31 | 0.40 | 70.2 |
| 5/2/2015 10:33:40 | 51.18 | 45.58 | 1,284 | 0.31 | 0.40 | 70.2 |
| 5/2/2015 10:33:40 | 51.51 | 45.91 | 1,284 | 0.30 | 0.39 | 70.2 |
| 5/2/2015 10:33:40 | 51.84 | 46.24 | 1,284 | 0.30 | 0.39 | 70.2 |
| 5/2/2015 10:33:40 | 52.17 | 46.57 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 10:33:41 | 52.49 | 46.89 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 10:33:41 | 52.82 | 47.22 | 1,284 | 0.30 | 0.40 | 70.2 |
| 5/2/2015 10:33:41 | 53.15 | 47.55 | 1,245 | 0.29 | 0.40 | 68.1 |
| 5/2/2015 10:33:42 | 53.48 | 47.88 | 1,245 | 0.29 | 0.40 | 68.1 |
| 5/2/2015 10:33:46 | 53.81 | 48.21 | 60 | 1.90 | 0.42 | 3.3 |
| 5/2/2015 10:33:47 | 54.13 | 48.53 | 194 | 1.89 | 0.53 | 10.6 |
| 5/2/2015 10:33:48 | 54.46 | 48.86 | 257 | 1.87 | 0.41 | 14.1 |
| 5/2/2015 10:33:48 | 54.79 | 49.19 | 381 | 1.92 | 0.42 | 20.8 |
| 5/2/2015 10:33:49 | 55.12 | 49.52 | 381 | 1.92 | 0.42 | 20.8 |
| 5/2/2015 10:33:49 | 55.45 | 49.85 | 572 | 2.10 | 0.42 | 31.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:33:49 | 55.77 | 50.17 | 709 | 3.12 | 0.43 | 38.8 |
| 5/2/2015 | 10:33:50 | 56.10 | 50.50 | 743 | 3.43 | 0.48 | 40.6 |
| 5/2/2015 | 10:33:53 | 56.43 | 50.83 | 105 | 3.25 | 0.47 | 5.7 |
| 5/2/2015 | 10:33:55 | 56.76 | 51.16 | 217 | 3.42 | 0.48 | 11.9 |
| 5/2/2015 | 10:33:59 | 57.09 | 51.49 | 29 | 3.56 | 0.47 | 1.6 |
| 5/2/2015 | 10:34:01 | 57.41 | 51.81 | 194 | 3.58 | 0.47 | 10.6 |
| 5/2/2015 | 10:34:02 | 57.74 | 52.14 | 281 | 3.68 | 0.48 | 15.3 |
| 5/2/2015 | 10:34:07 | 58.07 | 52.47 | 32 | 3.20 | 0.50 | 1.8 |
| 5/2/2015 | 10:34:13 | 58.40 | 52.80 | 58 | 3.01 | 0.49 | 3.2 |
| 5/2/2015 | 10:34:17 | 58.73 | 53.13 | 104 | 3.35 | 0.48 | 5.7 |
| 5/2/2015 | 10:34:23 | 59.06 | 53.46 | 46 | 2.76 | 0.50 | 2.5 |
| 5/2/2015 | 10:34:29 | 59.38 | 53.78 | 55 | 3.33 | 0.49 | 3.0 |
| 5/2/2015 | 10:34:36 | 59.71 | 54.11 | 48 | 3.12 | 0.49 | 2.6 |
| 5/2/2015 | 10:34:42 | 59.99 | 54.39 | 46 | 3.33 | 0.50 | 2.5 |

## O15 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:31:43

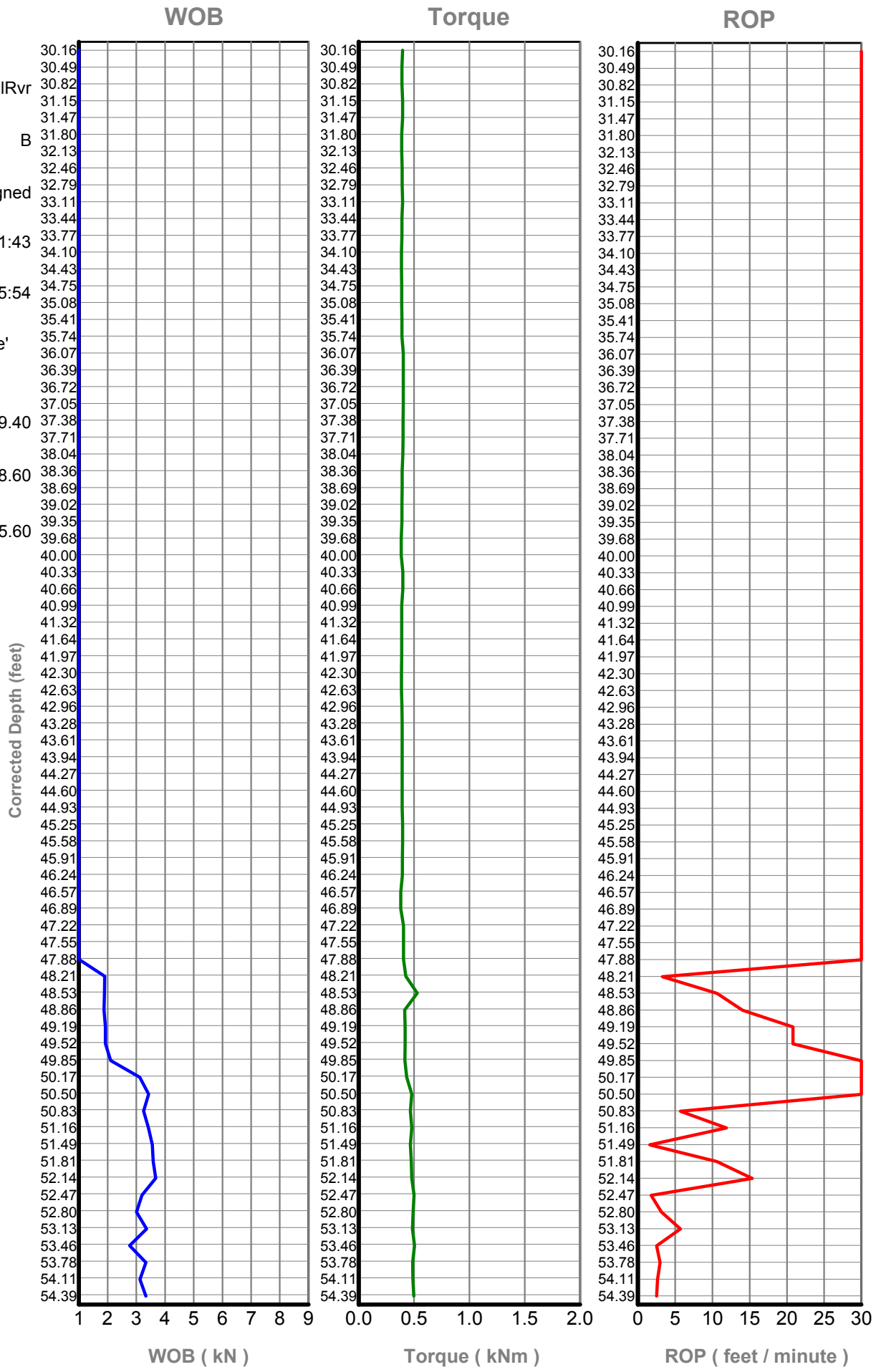
**End Date:**
5/2/2015 10:35:54

**Operator Note:**
'5.6 5.4 b Auto Complete'

**Northing:**
352,639.40

**Easting:**
229,778.60

**Tide (feet):**
5.60



## Hole: O16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:59:46 | 36.09 | 30.09 | 1,187 | 0.26 | 0.40 | 64.9 |
| 5/2/2015 10:59:47 | 36.42 | 30.42 | 1,187 | 0.26 | 0.40 | 64.9 |
| 5/2/2015 10:59:47 | 36.75 | 30.75 | 1,187 | 0.31 | 0.39 | 64.9 |
| 5/2/2015 10:59:47 | 37.07 | 31.07 | 1,187 | 0.31 | 0.39 | 64.9 |
| 5/2/2015 10:59:47 | 37.40 | 31.40 | 1,201 | 0.29 | 0.40 | 65.7 |
| 5/2/2015 10:59:48 | 37.73 | 31.73 | 1,201 | 0.29 | 0.40 | 65.7 |
| 5/2/2015 10:59:48 | 38.06 | 32.06 | 1,208 | 0.29 | 0.39 | 66.0 |
| 5/2/2015 10:59:48 | 38.39 | 32.39 | 1,208 | 0.29 | 0.39 | 66.0 |
| 5/2/2015 10:59:48 | 38.71 | 32.71 | 1,225 | 0.36 | 0.42 | 67.0 |
| 5/2/2015 10:59:49 | 39.04 | 33.04 | 1,252 | 0.26 | 0.39 | 68.5 |
| 5/2/2015 10:59:49 | 39.37 | 33.37 | 1,252 | 0.26 | 0.39 | 68.5 |
| 5/2/2015 10:59:49 | 39.70 | 33.70 | 1,274 | 0.31 | 0.41 | 69.7 |
| 5/2/2015 10:59:50 | 40.03 | 34.03 | 1,274 | 0.31 | 0.41 | 69.7 |
| 5/2/2015 10:59:50 | 40.35 | 34.35 | 1,256 | 0.33 | 0.40 | 68.7 |
| 5/2/2015 10:59:50 | 40.68 | 34.68 | 1,256 | 0.33 | 0.40 | 68.7 |
| 5/2/2015 10:59:50 | 41.01 | 35.01 | 1,268 | 0.56 | 0.40 | 69.3 |
| 5/2/2015 10:59:51 | 41.34 | 35.34 | 1,268 | 0.56 | 0.40 | 69.3 |
| 5/2/2015 10:59:51 | 41.67 | 35.67 | 1,255 | 0.36 | 0.41 | 68.6 |
| 5/2/2015 10:59:51 | 41.99 | 35.99 | 1,255 | 0.36 | 0.41 | 68.6 |
| 5/2/2015 10:59:51 | 42.32 | 36.32 | 1,252 | 0.33 | 0.40 | 68.4 |
| 5/2/2015 10:59:52 | 42.65 | 36.65 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 10:59:52 | 42.98 | 36.98 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 10:59:52 | 43.31 | 37.31 | 1,249 | 0.32 | 0.39 | 68.3 |
| 5/2/2015 10:59:53 | 43.64 | 37.64 | 1,249 | 0.32 | 0.39 | 68.3 |
| 5/2/2015 10:59:53 | 43.96 | 37.96 | 1,234 | 0.26 | 0.41 | 67.5 |
| 5/2/2015 10:59:53 | 44.29 | 38.29 | 1,234 | 0.26 | 0.41 | 67.5 |
| 5/2/2015 10:59:53 | 44.62 | 38.62 | 1,250 | 0.30 | 0.40 | 68.3 |
| 5/2/2015 10:59:54 | 44.95 | 38.95 | 1,250 | 0.30 | 0.40 | 68.3 |
| 5/2/2015 10:59:54 | 45.28 | 39.28 | 1,251 | 0.25 | 0.38 | 68.4 |
| 5/2/2015 10:59:54 | 45.60 | 39.60 | 1,251 | 0.25 | 0.38 | 68.4 |
| 5/2/2015 10:59:54 | 45.93 | 39.93 | 1,267 | 0.29 | 0.40 | 69.3 |
| 5/2/2015 10:59:55 | 46.26 | 40.26 | 1,264 | 0.29 | 0.38 | 69.1 |
| 5/2/2015 10:59:56 | 46.59 | 40.59 | 1,264 | 0.29 | 0.38 | 69.1 |
| 5/2/2015 10:59:56 | 46.92 | 40.92 | 1,282 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 10:59:56 | 47.24 | 41.24 | 1,282 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 10:59:56 | 47.57 | 41.57 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 10:59:57 | 47.90 | 41.90 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 10:59:57 | 48.23 | 42.23 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 10:59:57 | 48.56 | 42.56 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 10:59:57 | 48.88 | 42.88 | 1,275 | 0.29 | 0.39 | 69.7 |
| 5/2/2015 10:59:58 | 49.21 | 43.21 | 1,275 | 0.29 | 0.39 | 69.7 |
| 5/2/2015 10:59:58 | 49.54 | 43.54 | 1,278 | 0.29 | 0.40 | 69.9 |
| 5/2/2015 10:59:58 | 49.87 | 43.87 | 1,278 | 0.29 | 0.40 | 69.9 |
| 5/2/2015 10:59:58 | 50.20 | 44.20 | 1,256 | 0.29 | 0.38 | 68.7 |
| 5/2/2015 10:59:59 | 50.53 | 44.53 | 1,275 | 0.29 | 0.40 | 69.7 |
| 5/2/2015 10:59:59 | 50.85 | 44.85 | 1,275 | 0.29 | 0.40 | 69.7 |
| 5/2/2015 10:59:59 | 51.18 | 45.18 | 1,274 | 0.31 | 0.39 | 69.7 |
| 5/2/2015 11:00:00 | 51.51 | 45.51 | 1,274 | 0.31 | 0.39 | 69.7 |
| 5/2/2015 11:00:00 | 51.84 | 45.84 | 1,277 | 0.29 | 0.40 | 69.8 |
| 5/2/2015 11:00:00 | 52.17 | 46.17 | 1,277 | 0.29 | 0.40 | 69.8 |
| 5/2/2015 11:00:00 | 52.49 | 46.49 | 1,253 | 0.28 | 0.41 | 68.5 |
| 5/2/2015 11:00:01 | 52.82 | 46.82 | 1,239 | 0.29 | 0.40 | 67.8 |
| 5/2/2015 11:00:01 | 53.15 | 47.15 | 1,239 | 0.29 | 0.40 | 67.8 |
| 5/2/2015 11:00:01 | 53.48 | 47.48 | 1,177 | 0.29 | 0.41 | 64.4 |
| 5/2/2015 11:00:02 | 53.81 | 47.81 | 1,177 | 0.29 | 0.41 | 64.4 |
| 5/2/2015 11:00:02 | 54.13 | 48.13 | 1,136 | 0.29 | 0.41 | 62.1 |
| 5/2/2015 11:00:02 | 54.46 | 48.46 | 1,080 | 0.28 | 0.41 | 59.1 |
| 5/2/2015 11:00:03 | 54.79 | 48.79 | 1,053 | 0.28 | 0.43 | 57.6 |
| 5/2/2015 11:00:08 | 55.12 | 49.12 | 0 | 1.95 | 0.40 | 0.0 |
| 5/2/2015 11:00:09 | 55.45 | 49.45 | 140 | 1.95 | 0.41 | 7.7 |
| 5/2/2015 11:00:09 | 55.77 | 49.77 | 140 | 1.95 | 0.41 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:00:09 | 56.10 | 50.10 | 140 | 1.93 | 0.41 | 7.7 |
| 5/2/2015 | 11:00:10 | 56.43 | 50.43 | 357 | 1.99 | 0.42 | 19.5 |
| 5/2/2015 | 11:00:10 | 56.76 | 50.76 | 357 | 1.99 | 0.42 | 19.5 |
| 5/2/2015 | 11:00:10 | 57.09 | 51.09 | 548 | 3.44 | 0.49 | 30.0 |
| 5/2/2015 | 11:00:19 | 57.41 | 51.41 | 49 | 3.33 | 0.49 | 2.7 |
| 5/2/2015 | 11:00:28 | 57.74 | 51.74 | 32 | 2.96 | 0.50 | 1.7 |
| 5/2/2015 | 11:00:38 | 58.07 | 52.07 | 38 | 2.82 | 0.49 | 2.1 |
| 5/2/2015 | 11:00:44 | 58.28 | 52.28 | 37 | 2.70 | 0.50 | 2.0 |

## O16 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:58:18

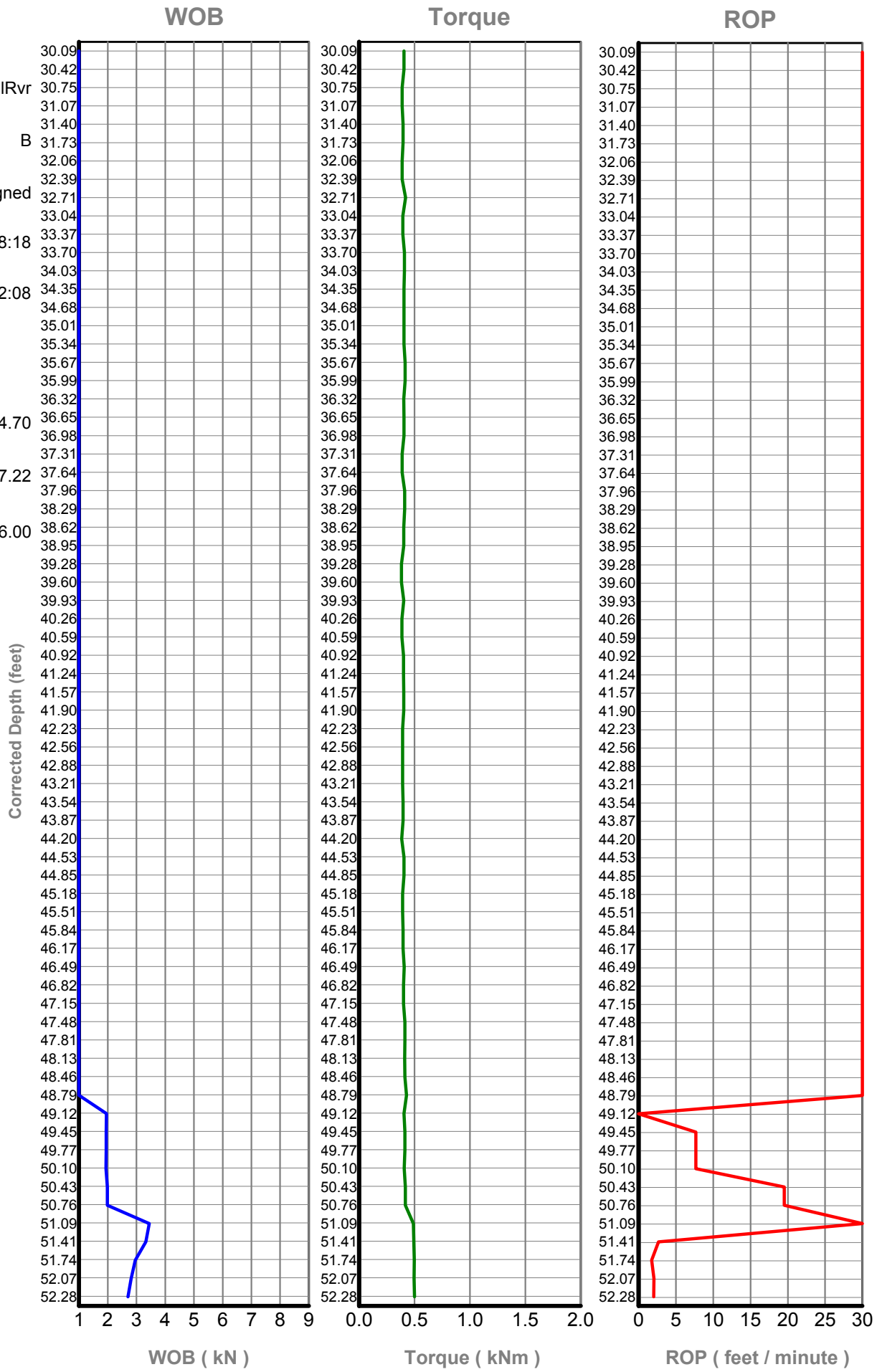
**End Date:**
5/2/2015 11:02:08

**Operator Note:**
'6 5.8 b Rock'

**Northing:**
352,674.70

**Easting:**
229,837.22

**Tide (feet):**
6.00



## Hole: O17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:12:43 | 36.42 | 30.32 | 1,263 | 0.29 | 0.40 | 69.1 |
| 5/2/2015 11:12:43 | 36.75 | 30.65 | 1,261 | 0.29 | 0.39 | 68.9 |
| 5/2/2015 11:12:43 | 37.07 | 30.97 | 1,261 | 0.29 | 0.39 | 68.9 |
| 5/2/2015 11:12:43 | 37.40 | 31.30 | 1,263 | 0.30 | 0.40 | 69.1 |
| 5/2/2015 11:12:44 | 37.73 | 31.63 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/2/2015 11:12:44 | 38.06 | 31.96 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/2/2015 11:12:44 | 38.39 | 32.29 | 1,260 | 0.29 | 0.39 | 68.9 |
| 5/2/2015 11:12:45 | 38.71 | 32.61 | 1,260 | 0.29 | 0.39 | 68.9 |
| 5/2/2015 11:12:45 | 39.04 | 32.94 | 1,256 | 0.29 | 0.38 | 68.7 |
| 5/2/2015 11:12:45 | 39.37 | 33.27 | 1,256 | 0.29 | 0.38 | 68.7 |
| 5/2/2015 11:12:45 | 39.70 | 33.60 | 1,275 | 0.29 | 0.39 | 69.7 |
| 5/2/2015 11:12:46 | 40.03 | 33.93 | 1,275 | 0.29 | 0.39 | 69.7 |
| 5/2/2015 11:12:46 | 40.35 | 34.25 | 1,275 | 0.29 | 0.41 | 69.7 |
| 5/2/2015 11:12:47 | 40.68 | 34.58 | 1,275 | 0.29 | 0.41 | 69.7 |
| 5/2/2015 11:12:47 | 41.01 | 34.91 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:47 | 41.34 | 35.24 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:47 | 41.67 | 35.57 | 1,275 | 0.29 | 0.39 | 69.7 |
| 5/2/2015 11:12:48 | 41.99 | 35.89 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 11:12:48 | 42.32 | 36.22 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 11:12:48 | 42.65 | 36.55 | 1,272 | 0.29 | 0.38 | 69.5 |
| 5/2/2015 11:12:49 | 42.98 | 36.88 | 1,272 | 0.29 | 0.38 | 69.5 |
| 5/2/2015 11:12:49 | 43.31 | 37.21 | 1,272 | 0.29 | 0.38 | 69.5 |
| 5/2/2015 11:12:49 | 43.64 | 37.54 | 1,272 | 0.29 | 0.38 | 69.5 |
| 5/2/2015 11:12:49 | 43.96 | 37.86 | 1,267 | 0.29 | 0.40 | 69.3 |
| 5/2/2015 11:12:50 | 44.29 | 38.19 | 1,267 | 0.29 | 0.40 | 69.3 |
| 5/2/2015 11:12:50 | 44.62 | 38.52 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 11:12:50 | 44.95 | 38.85 | 1,278 | 0.29 | 0.39 | 69.9 |
| 5/2/2015 11:12:50 | 45.28 | 39.18 | 1,272 | 0.29 | 0.39 | 69.6 |
| 5/2/2015 11:12:51 | 45.60 | 39.50 | 1,272 | 0.29 | 0.39 | 69.6 |
| 5/2/2015 11:12:51 | 45.93 | 39.83 | 1,272 | 0.29 | 0.38 | 69.6 |
| 5/2/2015 11:12:51 | 46.26 | 40.16 | 1,272 | 0.29 | 0.39 | 69.6 |
| 5/2/2015 11:12:52 | 46.59 | 40.49 | 1,272 | 0.29 | 0.39 | 69.6 |
| 5/2/2015 11:12:52 | 46.92 | 40.82 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 11:12:52 | 47.24 | 41.14 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 11:12:52 | 47.57 | 41.47 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:53 | 47.90 | 41.80 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:53 | 48.23 | 42.13 | 1,268 | 0.29 | 0.40 | 69.3 |
| 5/2/2015 11:12:53 | 48.56 | 42.46 | 1,268 | 0.29 | 0.40 | 69.3 |
| 5/2/2015 11:12:53 | 48.88 | 42.78 | 1,268 | 0.29 | 0.39 | 69.3 |
| 5/2/2015 11:12:54 | 49.21 | 43.11 | 1,268 | 0.29 | 0.39 | 69.3 |
| 5/2/2015 11:12:54 | 49.54 | 43.44 | 1,278 | 0.29 | 0.38 | 69.9 |
| 5/2/2015 11:12:54 | 49.87 | 43.77 | 1,278 | 0.29 | 0.38 | 69.9 |
| 5/2/2015 11:12:54 | 50.20 | 44.10 | 1,267 | 0.28 | 0.40 | 69.3 |
| 5/2/2015 11:12:55 | 50.53 | 44.43 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:55 | 50.85 | 44.75 | 1,272 | 0.29 | 0.40 | 69.6 |
| 5/2/2015 11:12:55 | 51.18 | 45.08 | 1,279 | 0.29 | 0.39 | 70.0 |
| 5/2/2015 11:12:56 | 51.51 | 45.41 | 1,279 | 0.29 | 0.39 | 70.0 |
| 5/2/2015 11:12:56 | 51.84 | 45.74 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 11:12:57 | 52.17 | 46.07 | 1,283 | 0.29 | 0.40 | 70.1 |
| 5/2/2015 11:12:57 | 52.49 | 46.39 | 1,269 | 0.29 | 0.39 | 69.4 |
| 5/2/2015 11:12:57 | 52.82 | 46.72 | 1,269 | 0.29 | 0.39 | 69.4 |
| 5/2/2015 11:12:57 | 53.15 | 47.05 | 1,269 | 0.29 | 0.40 | 69.4 |
| 5/2/2015 11:12:58 | 53.48 | 47.38 | 1,269 | 0.29 | 0.40 | 69.4 |
| 5/2/2015 11:12:58 | 53.81 | 47.71 | 1,269 | 0.29 | 0.40 | 69.4 |
| 5/2/2015 11:12:58 | 54.13 | 48.03 | 1,252 | 0.26 | 0.44 | 68.5 |
| 5/2/2015 11:12:59 | 54.46 | 48.36 | 1,252 | 0.26 | 0.44 | 68.5 |
| 5/2/2015 11:13:06 | 54.79 | 48.69 | 80 | 1.80 | 0.40 | 4.4 |
| 5/2/2015 11:13:07 | 55.12 | 49.02 | 80 | 1.80 | 0.40 | 4.4 |
| 5/2/2015 11:13:07 | 55.45 | 49.35 | 303 | 4.81 | 0.50 | 16.6 |
| 5/2/2015 11:13:08 | 55.77 | 49.67 | 395 | 5.05 | 0.51 | 21.6 |
| 5/2/2015 11:13:09 | 56.10 | 50.00 | 477 | 3.45 | 0.47 | 26.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:13:10 | 56.43 | 50.33 | 337 | 3.12 | 0.47 | 18.4 |
| 5/2/2015 | 11:13:11 | 56.76 | 50.66 | 355 | 2.71 | 0.47 | 19.4 |
| 5/2/2015 | 11:13:12 | 57.09 | 50.99 | 311 | 3.72 | 0.48 | 17.0 |
| 5/2/2015 | 11:13:13 | 57.41 | 51.31 | 301 | 3.19 | 0.48 | 16.5 |
| 5/2/2015 | 11:13:16 | 57.74 | 51.64 | 160 | 6.05 | 0.50 | 8.8 |
| 5/2/2015 | 11:13:34 | 58.07 | 51.97 | 75 | 3.35 | 0.47 | 4.1 |
| 5/2/2015 | 11:13:35 | 58.40 | 52.30 | 75 | 3.22 | 0.46 | 4.1 |
| 5/2/2015 | 11:13:35 | 58.73 | 52.63 | 160 | 2.05 | 0.43 | 8.7 |
| 5/2/2015 | 11:13:36 | 59.06 | 52.96 | 316 | 2.08 | 0.44 | 17.3 |
| 5/2/2015 | 11:13:36 | 59.38 | 53.28 | 447 | 2.55 | 0.46 | 24.5 |
| 5/2/2015 | 11:13:38 | 59.71 | 53.61 | 525 | 2.67 | 0.46 | 28.7 |
| 5/2/2015 | 11:13:39 | 60.04 | 53.94 | 472 | 2.67 | 0.45 | 25.8 |
| 5/2/2015 | 11:13:48 | 60.37 | 54.27 | 119 | 2.40 | 0.46 | 6.5 |
| 5/2/2015 | 11:13:49 | 60.70 | 54.60 | 185 | 2.21 | 0.44 | 10.1 |
| 5/2/2015 | 11:13:49 | 61.02 | 54.92 | 307 | 2.39 | 0.45 | 16.8 |
| 5/2/2015 | 11:13:50 | 61.17 | 55.07 | 420 | 2.61 | 0.49 | 23.0 |

## O17 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 11:10:59

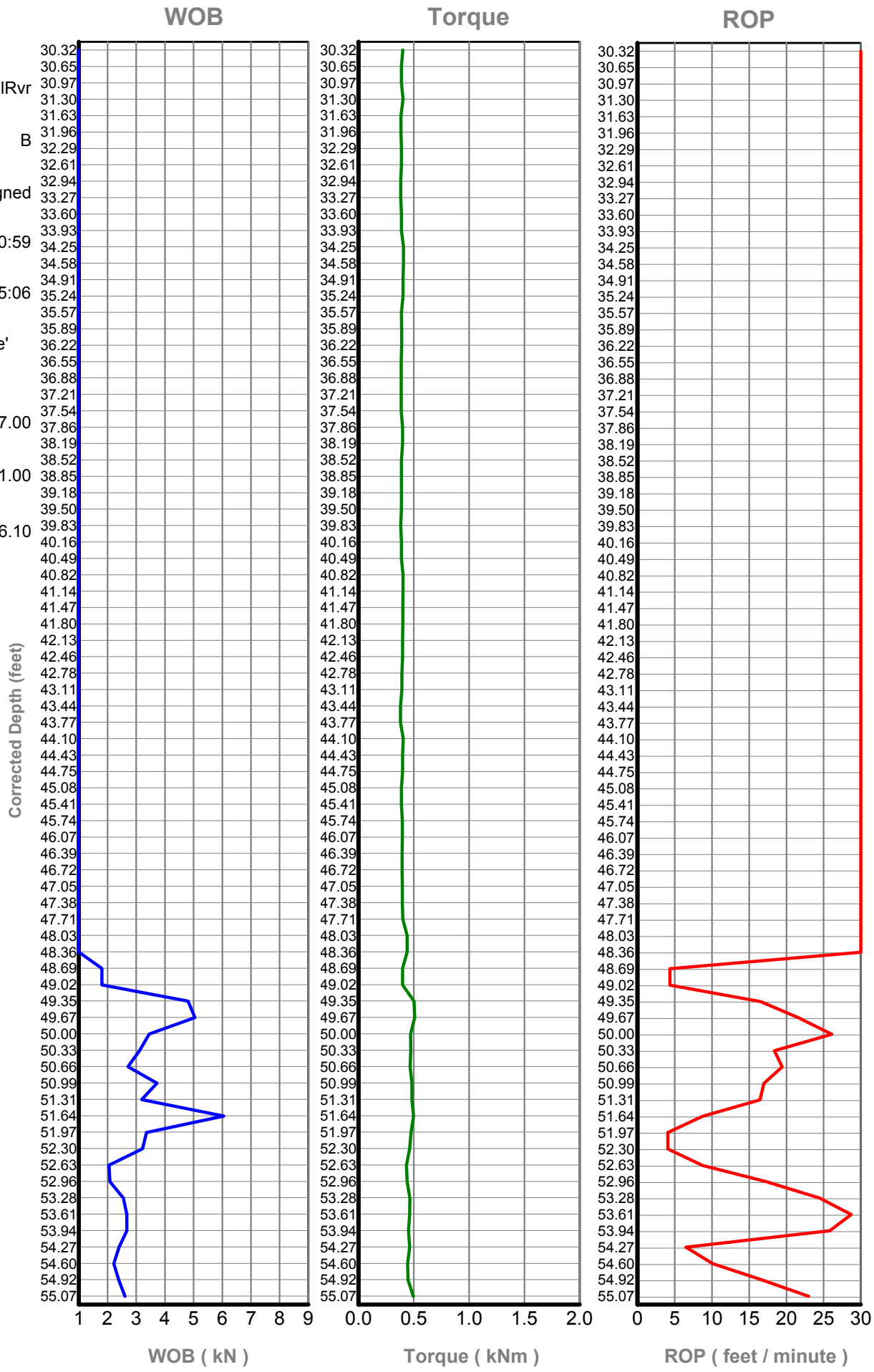
**End Date:**
5/2/2015 11:15:06

**Operator Note:**
'6.1 5.9 b Auto Complete'

**Northing:**
352,717.00

**Easting:**
229,901.00

**Tide (feet):**
6.10



## Hole: O18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:14:53 | 34.12 | 30.32 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:14:53 | 34.45 | 30.65 | 840 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:54 | 34.78 | 30.98 | 840 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 9:14:54 | 35.11 | 31.31 | 841 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:55 | 35.43 | 31.63 | 841 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:55 | 35.76 | 31.96 | 837 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 9:14:55 | 36.09 | 32.29 | 838 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 9:14:56 | 36.42 | 32.62 | 840 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:56 | 36.75 | 32.95 | 841 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:57 | 37.07 | 33.27 | 841 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 9:14:57 | 37.40 | 33.60 | 840 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 9:14:57 | 37.73 | 33.93 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:14:58 | 38.06 | 34.26 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:14:58 | 38.39 | 34.59 | 829 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:14:59 | 38.71 | 34.91 | 829 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:14:59 | 39.04 | 35.24 | 829 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:14:59 | 39.37 | 35.57 | 839 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 9:15:00 | 39.70 | 35.90 | 835 | 0.54 | 0.17 | 45.6 |
| 5/2/2015 9:15:00 | 40.03 | 36.23 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 9:15:01 | 40.35 | 36.55 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:02 | 40.68 | 36.88 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:01 | 41.01 | 37.21 | 825 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 9:15:02 | 41.34 | 37.54 | 825 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 9:15:03 | 41.67 | 37.87 | 824 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 9:15:03 | 41.99 | 38.19 | 819 | 0.54 | 0.17 | 44.8 |
| 5/2/2015 9:15:04 | 42.32 | 38.52 | 819 | 0.54 | 0.17 | 44.8 |
| 5/2/2015 9:15:04 | 42.65 | 38.85 | 819 | 0.54 | 0.17 | 44.8 |
| 5/2/2015 9:15:04 | 42.98 | 39.18 | 828 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:15:05 | 43.31 | 39.51 | 828 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:15:05 | 43.64 | 39.84 | 828 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 9:15:06 | 43.96 | 40.16 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:06 | 44.29 | 40.49 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:07 | 44.62 | 40.82 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:07 | 44.95 | 41.15 | 824 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 9:15:07 | 45.28 | 41.48 | 836 | 0.54 | 0.17 | 45.7 |
| 5/2/2015 9:15:08 | 45.60 | 41.80 | 842 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:15:08 | 45.93 | 42.13 | 834 | 0.54 | 0.17 | 45.6 |
| 5/2/2015 9:15:09 | 46.26 | 42.46 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:15:09 | 46.59 | 42.79 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 9:15:09 | 46.92 | 43.12 | 837 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 9:15:10 | 47.24 | 43.44 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 9:15:10 | 47.57 | 43.77 | 817 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 9:15:11 | 47.90 | 44.10 | 812 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 9:15:11 | 48.23 | 44.43 | 812 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 9:15:12 | 48.56 | 44.76 | 812 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 9:15:12 | 48.88 | 45.08 | 824 | 0.54 | 0.17 | 45.0 |
| 5/2/2015 9:15:12 | 49.21 | 45.41 | 817 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 9:15:13 | 49.54 | 45.74 | 817 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 9:15:13 | 49.87 | 46.07 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 9:15:14 | 50.20 | 46.40 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 9:15:14 | 50.53 | 46.73 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:15 | 50.85 | 47.05 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 9:15:15 | 51.18 | 47.38 | 825 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 9:15:33 | 51.51 | 47.71 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 9:15:33 | 51.84 | 48.04 | 156 | 0.54 | 0.17 | 8.5 |
| 5/2/2015 9:15:34 | 52.17 | 48.37 | 244 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 9:15:35 | 52.49 | 48.69 | 427 | 0.54 | 0.17 | 23.4 |
| 5/2/2015 9:15:35 | 52.82 | 49.02 | 477 | 0.54 | 0.17 | 26.1 |
| 5/2/2015 9:15:36 | 53.15 | 49.35 | 465 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 9:15:37 | 53.48 | 49.68 | 465 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 9:15:39 | 53.81 | 50.01 | 389 | 0.54 | 0.17 | 21.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:15:41 | 54.13 | 50.33 | 119 | 0.54 | 0.17 | 6.5 |
| 5/2/2015 | 9:15:43 | 54.46 | 50.66 | 188 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 | 9:15:43 | 54.79 | 50.99 | 274 | 0.54 | 0.17 | 15.0 |
| 5/2/2015 | 9:15:44 | 55.12 | 51.32 | 376 | 0.54 | 0.17 | 20.5 |
| 5/2/2015 | 9:15:44 | 55.45 | 51.65 | 462 | 0.54 | 0.17 | 25.3 |
| 5/2/2015 | 9:15:45 | 55.77 | 51.97 | 530 | 0.54 | 0.17 | 29.0 |
| 5/2/2015 | 9:15:46 | 56.10 | 52.30 | 564 | 0.54 | 0.17 | 30.8 |
| 5/2/2015 | 9:15:47 | 56.43 | 52.63 | 555 | 0.54 | 0.17 | 30.4 |
| 5/2/2015 | 9:15:48 | 56.76 | 52.96 | 430 | 0.54 | 0.17 | 23.5 |
| 5/2/2015 | 9:15:51 | 57.09 | 53.29 | 146 | 0.54 | 0.17 | 8.0 |
| 5/2/2015 | 9:15:52 | 57.41 | 53.61 | 213 | 0.54 | 0.17 | 11.6 |
| 5/2/2015 | 9:15:54 | 57.74 | 53.94 | 169 | 0.54 | 0.17 | 9.2 |
| 5/2/2015 | 9:15:56 | 58.07 | 54.27 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 | 9:15:57 | 58.40 | 54.60 | 244 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 | 9:15:58 | 58.66 | 54.86 | 218 | 0.54 | 0.17 | 11.9 |

## O18 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:13:20

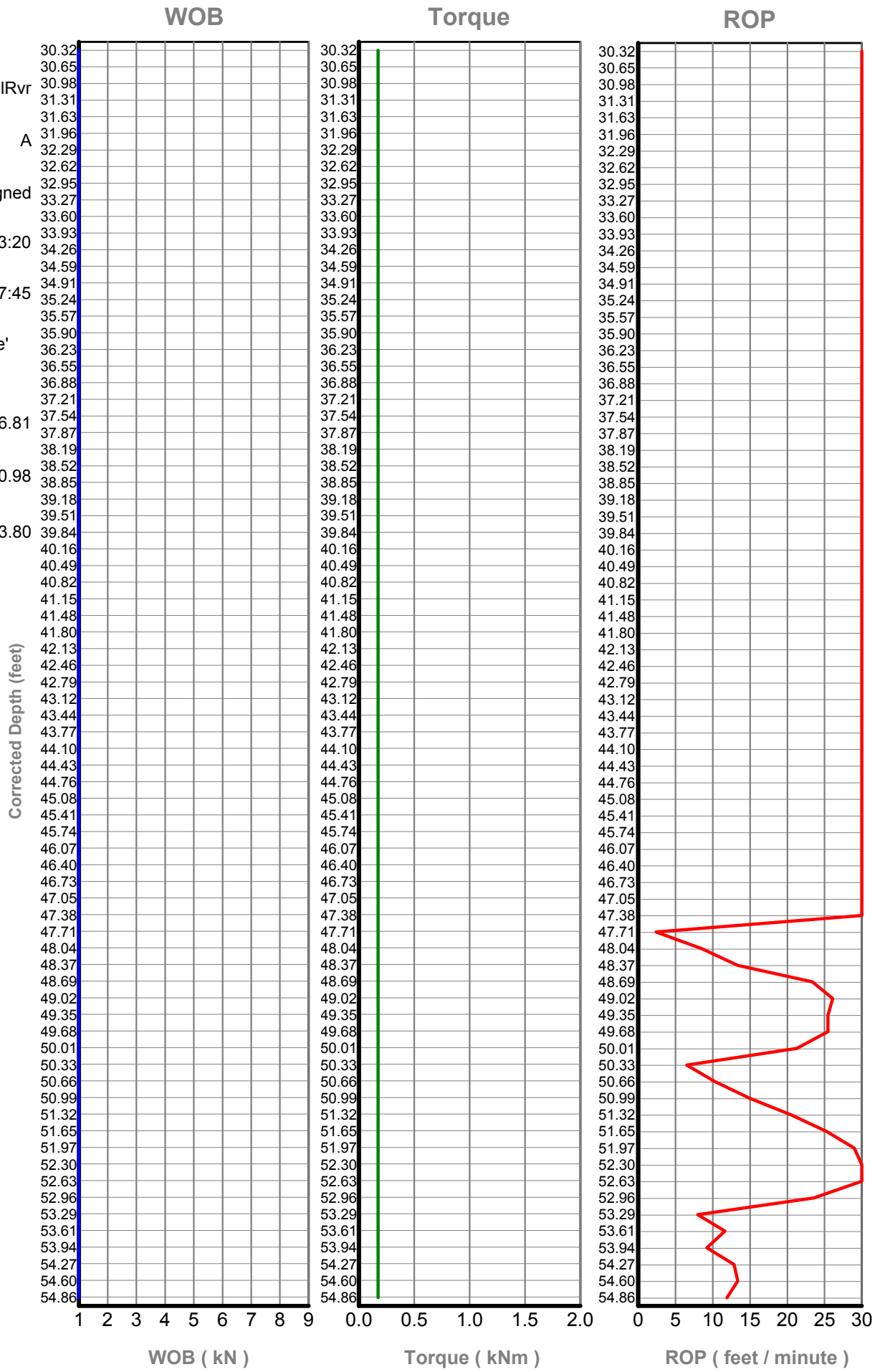
**End Date:**
5/2/2015 9:17:45

**Operator Note:**
'3.8 3.6 a Auto Complete'

**Northing:**
352,126.81

**Easting:**
229,120.98

**Tide (feet):**
3.80



## Hole: O19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:27:20 | 34.45 | 30.25 | 895 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:21 | 34.78 | 30.58 | 895 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:21 | 35.11 | 30.91 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:21 | 35.43 | 31.23 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:22 | 35.76 | 31.56 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:22 | 36.09 | 31.89 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:22 | 36.42 | 32.22 | 888 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 9:27:23 | 36.75 | 32.55 | 897 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:23 | 37.07 | 32.87 | 888 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 9:27:24 | 37.40 | 33.20 | 888 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 9:27:24 | 37.73 | 33.53 | 897 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:24 | 38.06 | 33.86 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:25 | 38.39 | 34.19 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:27:25 | 38.71 | 34.51 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:26 | 39.04 | 34.84 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:26 | 39.37 | 35.17 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 9:27:26 | 39.70 | 35.50 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:27 | 40.03 | 35.83 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:28 | 40.35 | 36.15 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:28 | 40.68 | 36.48 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:27:28 | 41.01 | 36.81 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:29 | 41.34 | 37.14 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:29 | 41.67 | 37.47 | 890 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 9:27:30 | 41.99 | 37.79 | 890 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 9:27:30 | 42.32 | 38.12 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:30 | 42.65 | 38.45 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:31 | 42.98 | 38.78 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:31 | 43.31 | 39.11 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:31 | 43.64 | 39.44 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:32 | 43.96 | 39.76 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 9:27:32 | 44.29 | 40.09 | 885 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 9:27:33 | 44.62 | 40.42 | 885 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 9:27:33 | 44.95 | 40.75 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:33 | 45.28 | 41.08 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:34 | 45.60 | 41.40 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:34 | 45.93 | 41.73 | 882 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 9:27:35 | 46.26 | 42.06 | 882 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 9:27:35 | 46.59 | 42.39 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:35 | 46.92 | 42.72 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:36 | 47.24 | 43.04 | 882 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 9:27:36 | 47.57 | 43.37 | 882 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 9:27:36 | 47.90 | 43.70 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:37 | 48.23 | 44.03 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:37 | 48.56 | 44.36 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:38 | 48.88 | 44.68 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:38 | 49.21 | 45.01 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:38 | 49.54 | 45.34 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:39 | 49.87 | 45.67 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:40 | 50.20 | 46.00 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:40 | 50.53 | 46.33 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 9:27:40 | 50.85 | 46.65 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 9:27:41 | 51.18 | 46.98 | 865 | 0.54 | 0.17 | 47.3 |
| 5/2/2015 9:27:41 | 51.51 | 47.31 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 9:27:42 | 51.84 | 47.64 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 9:27:42 | 52.17 | 47.97 | 785 | 0.54 | 0.17 | 43.0 |
| 5/2/2015 9:28:01 | 52.49 | 48.29 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 9:28:02 | 52.82 | 48.62 | 71 | 0.54 | 0.17 | 3.9 |
| 5/2/2015 9:28:02 | 53.15 | 48.95 | 193 | 0.54 | 0.17 | 10.6 |
| 5/2/2015 9:28:03 | 53.48 | 49.28 | 317 | 0.54 | 0.17 | 17.3 |
| 5/2/2015 9:28:04 | 53.81 | 49.61 | 441 | 0.54 | 0.17 | 24.1 |
| 5/2/2015 9:28:05 | 54.13 | 49.93 | 578 | 0.54 | 0.17 | 31.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:28:05 | 54.46 | 50.26 | 564 | 0.54 | 0.17 | 30.8 |
| 5/2/2015 | 9:28:06 | 54.79 | 50.59 | 558 | 0.54 | 0.17 | 30.5 |
| 5/2/2015 | 9:28:06 | 55.12 | 50.92 | 555 | 0.54 | 0.17 | 30.3 |
| 5/2/2015 | 9:28:07 | 55.45 | 51.25 | 593 | 0.54 | 0.17 | 32.5 |
| 5/2/2015 | 9:28:08 | 55.77 | 51.57 | 602 | 0.54 | 0.17 | 32.9 |
| 5/2/2015 | 9:28:08 | 56.10 | 51.90 | 605 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 | 9:28:09 | 56.43 | 52.23 | 600 | 0.54 | 0.17 | 32.8 |
| 5/2/2015 | 9:28:09 | 56.76 | 52.56 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 | 9:28:10 | 57.09 | 52.89 | 581 | 0.54 | 0.17 | 31.8 |
| 5/2/2015 | 9:28:11 | 57.41 | 53.21 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 | 9:28:11 | 57.74 | 53.54 | 572 | 0.54 | 0.17 | 31.3 |
| 5/2/2015 | 9:28:12 | 58.07 | 53.87 | 573 | 0.54 | 0.17 | 31.3 |
| 5/2/2015 | 9:28:12 | 58.40 | 54.20 | 573 | 0.54 | 0.17 | 31.3 |
| 5/2/2015 | 9:28:13 | 58.73 | 54.53 | 567 | 0.54 | 0.17 | 31.0 |
| 5/2/2015 | 9:28:14 | 59.06 | 54.86 | 564 | 0.54 | 0.17 | 30.8 |
| 5/2/2015 | 9:28:14 | 59.38 | 55.18 | 564 | 0.54 | 0.17 | 30.9 |

## O19 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:25:43

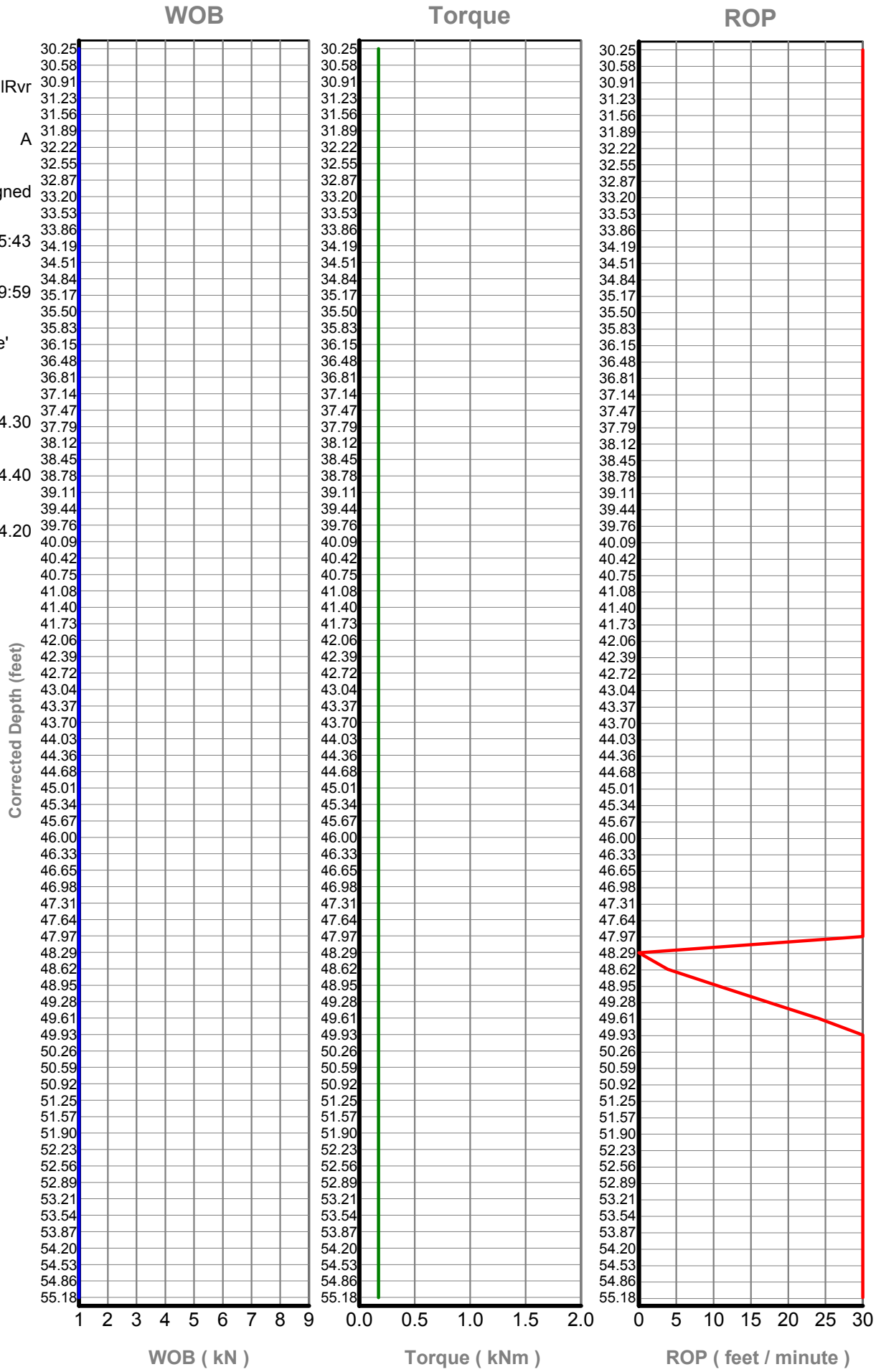
**End Date:**
5/2/2015 9:29:59

**Operator Note:**
'4.2 4.0 a Auto Complete'

**Northing:**
352,174.30

**Easting:**
229,184.40

**Tide (feet):**
4.20



## Hole: O2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:26:46 | 34.45 | 30.25 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:47 | 34.78 | 30.58 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:47 | 35.11 | 30.91 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:47 | 35.43 | 31.23 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 9:26:48 | 35.76 | 31.56 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 9:26:48 | 36.09 | 31.89 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 9:26:48 | 36.42 | 32.22 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:49 | 36.75 | 32.55 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 9:26:49 | 37.07 | 32.87 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:50 | 37.40 | 33.20 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:50 | 37.73 | 33.53 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 9:26:51 | 38.06 | 33.86 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:51 | 38.39 | 34.19 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:51 | 38.71 | 34.51 | 966 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 9:26:52 | 39.04 | 34.84 | 962 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 9:26:52 | 39.37 | 35.17 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 9:26:53 | 39.70 | 35.50 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 9:26:53 | 40.03 | 35.83 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 9:26:53 | 40.35 | 36.15 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:54 | 40.68 | 36.48 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:54 | 41.01 | 36.81 | 968 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:54 | 41.34 | 37.14 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 9:26:55 | 41.67 | 37.47 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 9:26:55 | 41.99 | 37.79 | 970 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:55 | 42.32 | 38.12 | 970 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 9:26:56 | 42.65 | 38.45 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 9:26:56 | 42.98 | 38.78 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 9:26:56 | 43.31 | 39.11 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 9:26:57 | 43.64 | 39.44 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 9:26:57 | 43.96 | 39.76 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 9:26:57 | 44.29 | 40.09 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 9:26:58 | 44.62 | 40.42 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 9:26:58 | 44.95 | 40.75 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 9:26:58 | 45.28 | 41.08 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 9:26:59 | 45.60 | 41.40 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:26:59 | 45.93 | 41.73 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:26:59 | 46.26 | 42.06 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:27:00 | 46.59 | 42.39 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:27:01 | 46.92 | 42.72 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:27:00 | 47.24 | 43.04 | 996 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 9:27:01 | 47.57 | 43.37 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 9:27:01 | 47.90 | 43.70 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 9:27:02 | 48.23 | 44.03 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 9:27:02 | 48.56 | 44.36 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 9:27:02 | 48.88 | 44.68 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 9:27:03 | 49.21 | 45.01 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 9:27:03 | 49.54 | 45.34 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 9:27:04 | 49.87 | 45.67 | 992 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:27:04 | 50.20 | 46.00 | 992 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:27:32 | 50.53 | 46.33 | 40 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 9:27:32 | 50.85 | 46.65 | 232 | 1.14 | 0.29 | 12.7 |
| 5/2/2015 9:27:33 | 51.18 | 46.98 | 232 | 1.14 | 0.29 | 12.7 |
| 5/2/2015 9:27:33 | 51.51 | 47.31 | 411 | 1.14 | 0.29 | 22.5 |
| 5/2/2015 9:27:33 | 51.84 | 47.64 | 600 | 1.14 | 0.29 | 32.8 |
| 5/2/2015 9:27:34 | 52.17 | 47.97 | 782 | 1.14 | 0.29 | 42.8 |
| 5/2/2015 9:27:34 | 52.49 | 48.29 | 782 | 1.14 | 0.29 | 42.8 |
| 5/2/2015 9:27:34 | 52.82 | 48.62 | 931 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 9:27:35 | 53.15 | 48.95 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 9:27:35 | 53.48 | 49.28 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 9:27:36 | 53.81 | 49.61 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 9:27:36 | 54.13 | 49.93 | 922 | 1.14 | 0.29 | 50.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:27:37 | 54.46 | 50.26 | 908 | 1.14 | 0.29 | 49.6 |
| 5/2/2015 | 9:27:37 | 54.79 | 50.59 | 888 | 1.14 | 0.29 | 48.5 |
| 5/2/2015 | 9:27:38 | 55.12 | 50.92 | 877 | 1.14 | 0.29 | 47.9 |
| 5/2/2015 | 9:27:38 | 55.45 | 51.25 | 877 | 1.14 | 0.29 | 47.9 |
| 5/2/2015 | 9:27:38 | 55.77 | 51.57 | 885 | 1.14 | 0.29 | 48.4 |
| 5/2/2015 | 9:27:39 | 56.10 | 51.90 | 876 | 1.14 | 0.29 | 47.9 |
| 5/2/2015 | 9:27:39 | 56.43 | 52.23 | 879 | 1.14 | 0.29 | 48.1 |
| 5/2/2015 | 9:27:40 | 56.76 | 52.56 | 879 | 1.14 | 0.29 | 48.1 |
| 5/2/2015 | 9:27:40 | 57.09 | 52.89 | 884 | 1.14 | 0.29 | 48.3 |
| 5/2/2015 | 9:27:40 | 57.41 | 53.21 | 878 | 1.14 | 0.29 | 48.0 |
| 5/2/2015 | 9:27:41 | 57.74 | 53.54 | 861 | 1.14 | 0.29 | 47.1 |
| 5/2/2015 | 9:27:41 | 58.07 | 53.87 | 850 | 1.14 | 0.29 | 46.5 |
| 5/2/2015 | 9:27:42 | 58.40 | 54.20 | 849 | 1.14 | 0.29 | 46.4 |
| 5/2/2015 | 9:27:42 | 58.73 | 54.53 | 849 | 1.14 | 0.29 | 46.4 |
| 5/2/2015 | 9:27:42 | 59.06 | 54.86 | 846 | 1.14 | 0.29 | 46.3 |
| 5/2/2015 | 9:27:43 | 59.35 | 55.15 | 835 | 1.14 | 0.29 | 45.6 |

## O2 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/2/2015 9:25:22

**End Date:**
5/2/2015 9:31:53

**Operator Note:**
'4.2 4.0 c Auto Complete'

**Northing:**
352,300.96

**Easting:**
229,103.99

**Tide (feet):**
4.20



## Hole: O21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:40:21 | 34.78 | 30.28 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:21 | 35.11 | 30.61 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:22 | 35.43 | 30.93 | 903 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:22 | 35.76 | 31.26 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 9:40:23 | 36.09 | 31.59 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 9:40:23 | 36.42 | 31.92 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 9:40:23 | 36.75 | 32.25 | 911 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 9:40:24 | 37.07 | 32.57 | 903 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:24 | 37.40 | 32.90 | 903 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:24 | 37.73 | 33.23 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 9:40:25 | 38.06 | 33.56 | 910 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 9:40:25 | 38.39 | 33.89 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:26 | 38.71 | 34.21 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:26 | 39.04 | 34.54 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 9:40:26 | 39.37 | 34.87 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:27 | 39.70 | 35.20 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:27 | 40.03 | 35.53 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:28 | 40.35 | 35.85 | 910 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 9:40:28 | 40.68 | 36.18 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:29 | 41.01 | 36.51 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:29 | 41.34 | 36.84 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:29 | 41.67 | 37.17 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 9:40:30 | 41.99 | 37.49 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:30 | 42.32 | 37.82 | 902 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:31 | 42.65 | 38.15 | 902 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:31 | 42.98 | 38.48 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:31 | 43.31 | 38.81 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:32 | 43.64 | 39.14 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:32 | 43.96 | 39.46 | 897 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:40:33 | 44.29 | 39.79 | 897 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:40:33 | 44.62 | 40.12 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:33 | 44.95 | 40.45 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:34 | 45.28 | 40.78 | 908 | 0.54 | 0.17 | 49.6 |
| 5/2/2015 9:40:34 | 45.60 | 41.10 | 908 | 0.54 | 0.17 | 49.6 |
| 5/2/2015 9:40:34 | 45.93 | 41.43 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:35 | 46.26 | 41.76 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 9:40:35 | 46.59 | 42.09 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:36 | 46.92 | 42.42 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:36 | 47.24 | 42.74 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:36 | 47.57 | 43.07 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 9:40:37 | 47.90 | 43.40 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:37 | 48.23 | 43.73 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:37 | 48.56 | 44.06 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 9:40:38 | 48.88 | 44.38 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:38 | 49.21 | 44.71 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:39 | 49.54 | 45.04 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:39 | 49.87 | 45.37 | 905 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 9:40:40 | 50.20 | 45.70 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 9:40:40 | 50.53 | 46.03 | 902 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:41 | 50.85 | 46.35 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:41 | 51.18 | 46.68 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 9:40:41 | 51.51 | 47.01 | 899 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 9:40:50 | 51.84 | 47.34 | 69 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 9:40:52 | 52.17 | 47.67 | 234 | 0.54 | 0.17 | 12.8 |
| 5/2/2015 9:40:53 | 52.49 | 47.99 | 358 | 0.54 | 0.17 | 19.6 |
| 5/2/2015 9:40:54 | 52.82 | 48.32 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 9:40:55 | 53.15 | 48.65 | 291 | 0.54 | 0.17 | 15.9 |
| 5/2/2015 9:40:56 | 53.48 | 48.98 | 363 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 9:40:57 | 53.81 | 49.31 | 326 | 0.54 | 0.17 | 17.8 |
| 5/2/2015 9:40:59 | 54.13 | 49.63 | 218 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 9:41:02 | 54.46 | 49.96 | 43 | 0.54 | 0.17 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:41:04 | 54.79 | 50.29 | 144 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 | 9:41:05 | 55.12 | 50.62 | 280 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 | 9:41:06 | 55.45 | 50.95 | 320 | 0.54 | 0.17 | 17.5 |
| 5/2/2015 | 9:41:07 | 55.77 | 51.27 | 381 | 0.54 | 0.17 | 20.8 |
| 5/2/2015 | 9:41:07 | 56.10 | 51.60 | 404 | 0.54 | 0.17 | 22.1 |
| 5/2/2015 | 9:41:08 | 56.43 | 51.93 | 384 | 0.54 | 0.17 | 21.0 |
| 5/2/2015 | 9:41:09 | 56.76 | 52.26 | 404 | 0.54 | 0.17 | 22.1 |
| 5/2/2015 | 9:41:10 | 57.09 | 52.59 | 416 | 0.54 | 0.17 | 22.8 |
| 5/2/2015 | 9:41:11 | 57.41 | 52.91 | 460 | 0.54 | 0.17 | 25.1 |
| 5/2/2015 | 9:41:11 | 57.74 | 53.24 | 445 | 0.54 | 0.17 | 24.4 |
| 5/2/2015 | 9:41:12 | 58.07 | 53.57 | 445 | 0.54 | 0.17 | 24.3 |
| 5/2/2015 | 9:41:13 | 58.40 | 53.90 | 451 | 0.54 | 0.17 | 24.7 |
| 5/2/2015 | 9:41:14 | 58.73 | 54.23 | 471 | 0.54 | 0.17 | 25.8 |
| 5/2/2015 | 9:41:14 | 59.06 | 54.56 | 465 | 0.54 | 0.17 | 25.5 |
| 5/2/2015 | 9:41:16 | 59.38 | 54.88 | 454 | 0.54 | 0.17 | 24.8 |
| 5/2/2015 | 9:41:16 | 59.43 | 54.93 | 454 | 0.54 | 0.17 | 24.8 |

## O21 - Summary

**Pattern Number:**
AreaO_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 9:38:51

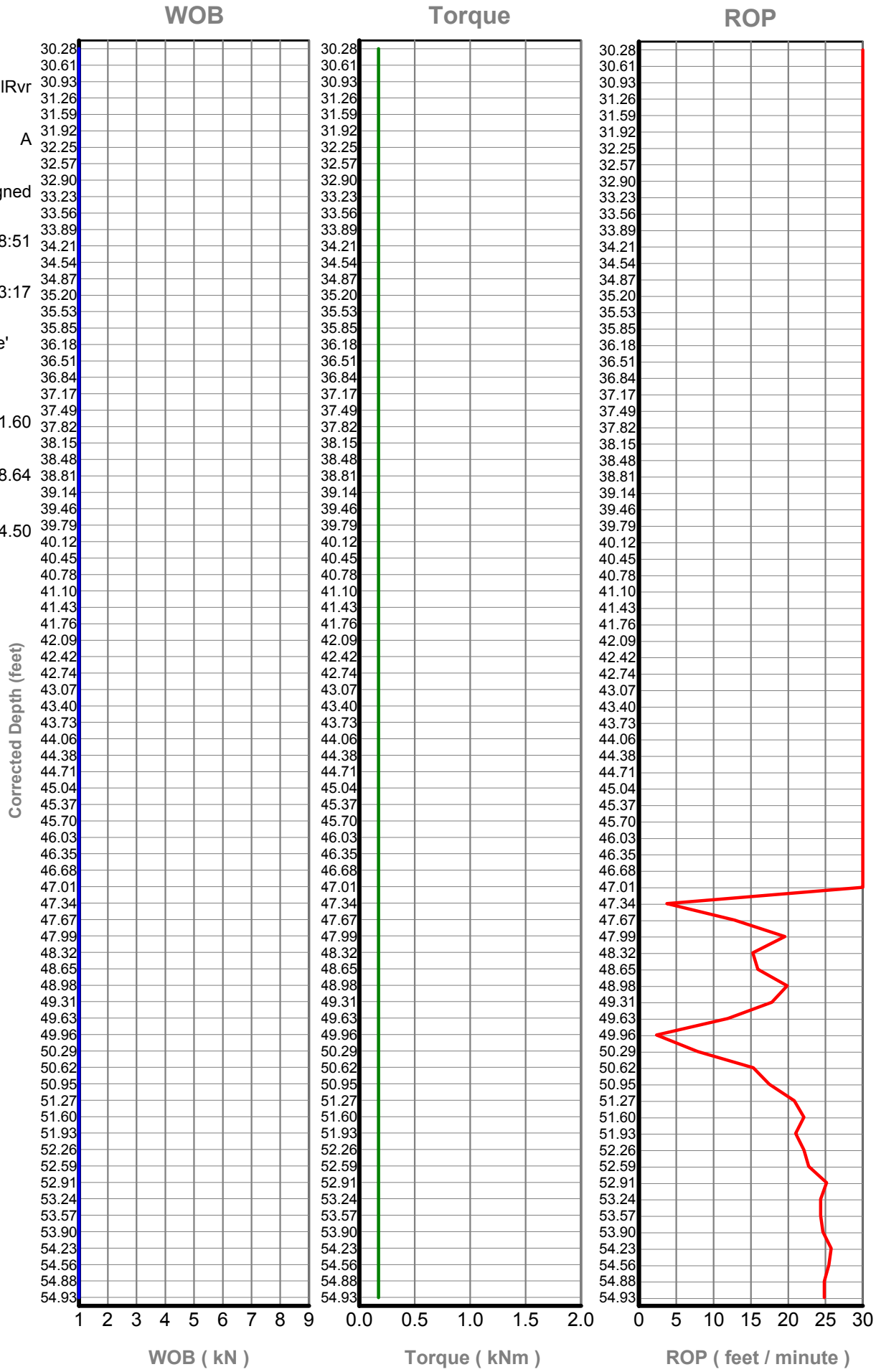
**End Date:**
5/2/2015 9:43:17

**Operator Note:**
'4.5 4.2 a Auto Complete'

**Northing:**
352,261.60

**Easting:**
229,288.64

**Tide (feet):**
4.50



## Hole: O22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:05:41 | 35.11 | 30.11 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:41 | 35.43 | 30.43 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:42 | 35.76 | 30.76 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:42 | 36.09 | 31.09 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:43 | 36.42 | 31.42 | 1,005 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 10:05:43 | 36.75 | 31.75 | 1,005 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 10:05:43 | 37.07 | 32.07 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 10:05:44 | 37.40 | 32.40 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 10:05:44 | 37.73 | 32.73 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 10:05:44 | 38.06 | 33.06 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 10:05:45 | 38.39 | 33.39 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 10:05:45 | 38.71 | 33.71 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 10:05:46 | 39.04 | 34.04 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 10:05:46 | 39.37 | 34.37 | 970 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 10:05:46 | 39.70 | 34.70 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:47 | 40.03 | 35.03 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:47 | 40.35 | 35.35 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:47 | 40.68 | 35.68 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:48 | 41.01 | 36.01 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:48 | 41.34 | 36.34 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:48 | 41.67 | 36.67 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 10:05:49 | 41.99 | 36.99 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 10:05:49 | 42.32 | 37.32 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 10:05:49 | 42.65 | 37.65 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 10:05:50 | 42.98 | 37.98 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 10:05:50 | 43.31 | 38.31 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 10:05:50 | 43.64 | 38.64 | 987 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 10:05:51 | 43.96 | 38.96 | 996 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:51 | 44.29 | 39.29 | 996 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:05:51 | 44.62 | 39.62 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 10:05:52 | 44.95 | 39.95 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 10:05:52 | 45.28 | 40.28 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 10:05:52 | 45.60 | 40.60 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 10:05:53 | 45.93 | 40.93 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 10:05:54 | 46.26 | 41.26 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 10:05:53 | 46.59 | 41.59 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 10:05:54 | 46.92 | 41.92 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 10:05:55 | 47.24 | 42.24 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 10:05:55 | 47.57 | 42.57 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 10:05:55 | 47.90 | 42.90 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:05:56 | 48.23 | 43.23 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:05:56 | 48.56 | 43.56 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:05:56 | 48.88 | 43.88 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 10:05:57 | 49.21 | 44.21 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 10:05:57 | 49.54 | 44.54 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:05:57 | 49.87 | 44.87 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:05:58 | 50.20 | 45.20 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:05:58 | 50.53 | 45.53 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:05:58 | 50.85 | 45.85 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:05:59 | 51.18 | 46.18 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:05:59 | 51.51 | 46.51 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 10:05:59 | 51.84 | 46.84 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 10:06:00 | 52.17 | 47.17 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 10:06:00 | 52.49 | 47.49 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 10:06:00 | 52.82 | 47.82 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:06:01 | 53.15 | 48.15 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:06:01 | 53.48 | 48.48 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 10:06:01 | 53.81 | 48.81 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:06:02 | 54.13 | 49.13 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 10:06:13 | 54.46 | 49.46 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 10:06:14 | 54.79 | 49.79 | 209 | 1.14 | 0.29 | 11.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:06:14 | 55.12 | 50.12 | 209 | 1.14 | 0.29 | 11.4 |
| 5/2/2015 | 10:06:14 | 55.45 | 50.45 | 389 | 1.14 | 0.29 | 21.3 |
| 5/2/2015 | 10:06:15 | 55.77 | 50.77 | 577 | 1.14 | 0.29 | 31.6 |
| 5/2/2015 | 10:06:15 | 56.10 | 51.10 | 757 | 1.14 | 0.29 | 41.4 |
| 5/2/2015 | 10:06:16 | 56.43 | 51.43 | 757 | 1.14 | 0.29 | 41.4 |
| 5/2/2015 | 10:06:16 | 56.76 | 51.76 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 10:06:16 | 57.09 | 52.09 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 | 10:06:17 | 57.41 | 52.41 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 | 10:06:17 | 57.74 | 52.74 | 925 | 1.14 | 0.29 | 50.6 |
| 5/2/2015 | 10:06:18 | 58.07 | 53.07 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 | 10:06:18 | 58.40 | 53.40 | 905 | 1.14 | 0.29 | 49.5 |
| 5/2/2015 | 10:06:19 | 58.73 | 53.73 | 902 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 | 10:06:19 | 59.06 | 54.06 | 902 | 1.14 | 0.29 | 49.3 |
| 5/2/2015 | 10:06:19 | 59.38 | 54.38 | 899 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 | 10:06:21 | 59.71 | 54.71 | 595 | 1.14 | 0.29 | 32.6 |
| 5/2/2015 | 10:06:22 | 59.88 | 54.88 | 431 | 1.14 | 0.29 | 23.6 |

## O22 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:04:31

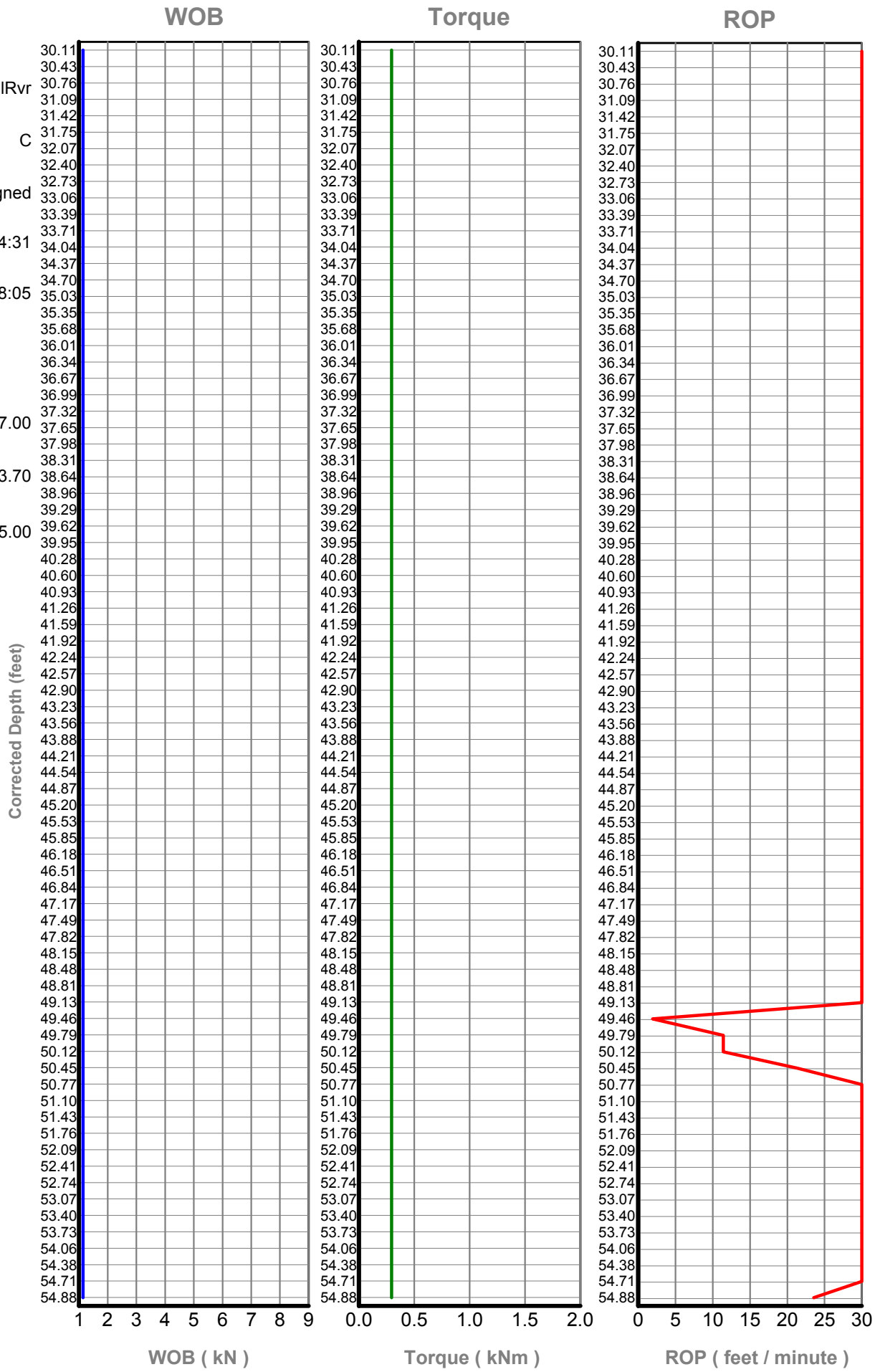
**End Date:**
5/2/2015 10:08:05

**Operator Note:**
'5 4.9 c Auto Complete'

**Northing:**
352,507.00

**Easting:**
229,693.70

**Tide (feet):**
5.00



## Hole: O23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:19:45 | 35.43 | 30.03 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:45 | 35.76 | 30.36 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 10:19:46 | 36.09 | 30.69 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 10:19:46 | 36.42 | 31.02 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 10:19:46 | 36.75 | 31.35 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:19:47 | 37.07 | 31.67 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:47 | 37.40 | 32.00 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:47 | 37.73 | 32.33 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 10:19:48 | 38.06 | 32.66 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:48 | 38.39 | 32.99 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:48 | 38.71 | 33.31 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 10:19:49 | 39.04 | 33.64 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:49 | 39.37 | 33.97 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:49 | 39.70 | 34.30 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:50 | 40.03 | 34.63 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:50 | 40.35 | 34.95 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:50 | 40.68 | 35.28 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 10:19:51 | 41.01 | 35.61 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:51 | 41.34 | 35.94 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:51 | 41.67 | 36.27 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:19:52 | 41.99 | 36.59 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:19:52 | 42.32 | 36.92 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:19:53 | 42.65 | 37.25 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 10:19:53 | 42.98 | 37.58 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 10:19:53 | 43.31 | 37.91 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:54 | 43.64 | 38.24 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:54 | 43.96 | 38.56 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:54 | 44.29 | 38.89 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:55 | 44.62 | 39.22 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:55 | 44.95 | 39.55 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:19:55 | 45.28 | 39.88 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:19:56 | 45.60 | 40.20 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:19:56 | 45.93 | 40.53 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:19:56 | 46.26 | 40.86 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:57 | 46.59 | 41.19 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:57 | 46.92 | 41.52 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:57 | 47.24 | 41.84 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:19:58 | 47.57 | 42.17 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 10:19:58 | 47.90 | 42.50 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 10:19:58 | 48.23 | 42.83 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 10:19:59 | 48.56 | 43.16 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 10:19:59 | 48.88 | 43.48 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 10:19:59 | 49.21 | 43.81 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:20:00 | 49.54 | 44.14 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:20:00 | 49.87 | 44.47 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 10:20:00 | 50.20 | 44.80 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 10:20:01 | 50.53 | 45.13 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:01 | 50.85 | 45.45 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:01 | 51.18 | 45.78 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 10:20:02 | 51.51 | 46.11 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:02 | 51.84 | 46.44 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:02 | 52.17 | 46.77 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:03 | 52.49 | 47.09 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:03 | 52.82 | 47.42 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 10:20:04 | 53.15 | 47.75 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 10:20:04 | 53.48 | 48.08 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 10:20:05 | 53.81 | 48.41 | 965 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 10:20:05 | 54.13 | 48.73 | 965 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 10:20:06 | 54.46 | 49.06 | 921 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 10:20:18 | 54.79 | 49.39 | 27 | 1.14 | 0.29 | 1.5 |
| 5/2/2015 10:20:18 | 55.12 | 49.72 | 27 | 1.14 | 0.29 | 1.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:20:19 | 55.45 | 50.05 | 192 | 1.14 | 0.29 | 10.5 |
| 5/2/2015 | 10:20:19 | 55.77 | 50.37 | 192 | 1.14 | 0.29 | 10.5 |
| 5/2/2015 | 10:20:20 | 56.10 | 50.70 | 192 | 1.14 | 0.29 | 10.5 |
| 5/2/2015 | 10:20:20 | 56.43 | 51.03 | 347 | 1.14 | 0.29 | 19.0 |
| 5/2/2015 | 10:20:27 | 56.76 | 51.36 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 | 10:20:39 | 57.09 | 51.69 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 | 10:20:53 | 57.41 | 52.01 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 | 10:21:07 | 57.74 | 52.34 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 | 10:21:20 | 58.07 | 52.67 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 | 10:21:28 | 58.26 | 52.86 | 29 | 1.14 | 0.29 | 1.6 |

## O23 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:18:25

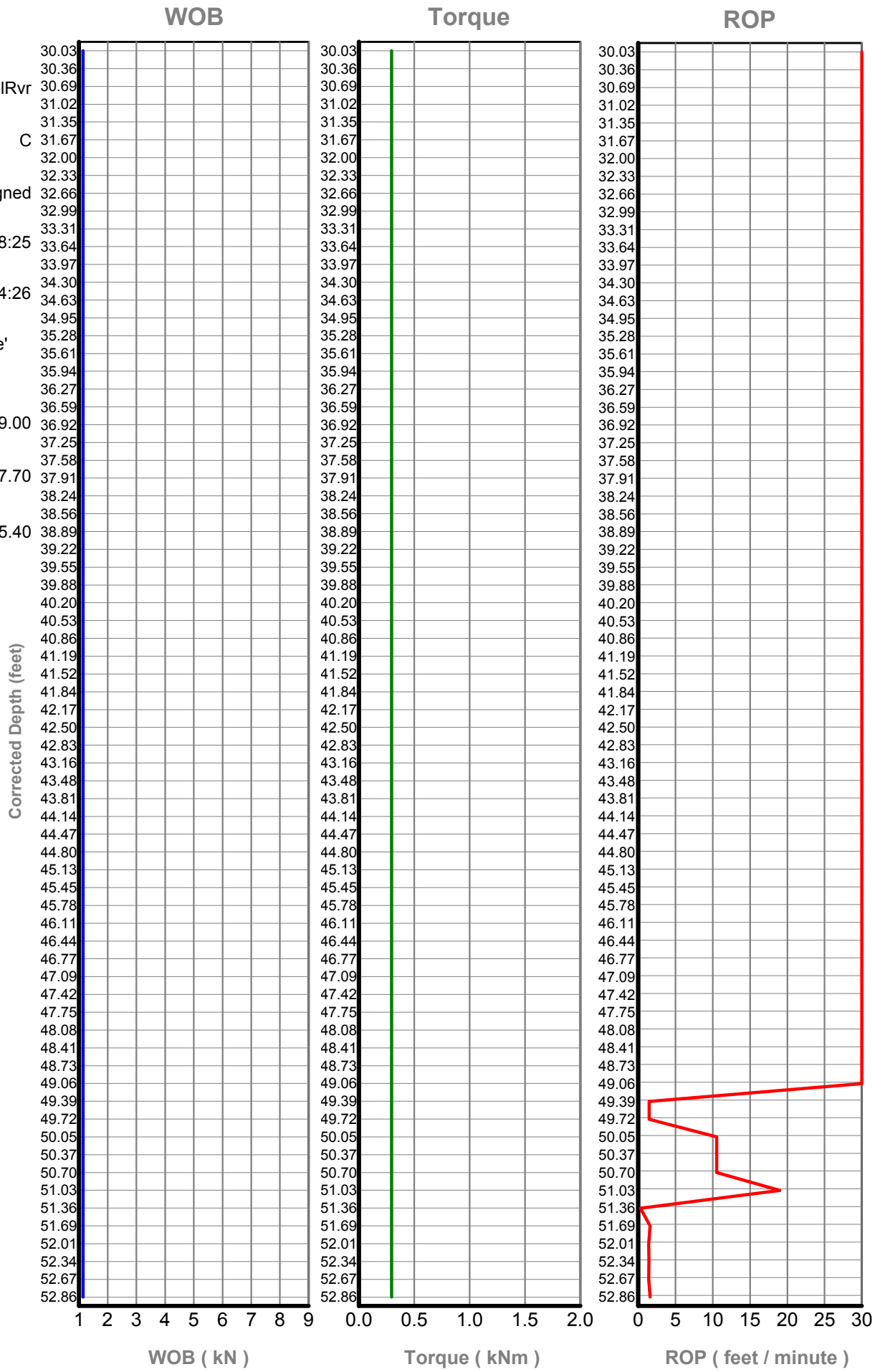
**End Date:**
5/2/2015 10:24:26

**Operator Note:**
'5.4 5.1 c Auto Complete'

**Northing:**
352,539.00

**Easting:**
229,747.70

**Tide (feet):**
5.40



## Hole: O24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:32:56 | 35.76 | 30.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 10:32:56 | 36.09 | 30.49 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 10:32:56 | 36.42 | 30.82 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 10:32:56 | 36.75 | 31.15 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 10:32:57 | 37.07 | 31.47 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:32:57 | 37.40 | 31.80 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:32:57 | 37.73 | 32.13 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:32:58 | 38.06 | 32.46 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:32:58 | 38.39 | 32.79 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:32:58 | 38.71 | 33.11 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 10:32:59 | 39.04 | 33.44 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:32:59 | 39.37 | 33.77 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:32:59 | 39.70 | 34.10 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:33:00 | 40.03 | 34.43 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 10:33:00 | 40.35 | 34.75 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 10:33:00 | 40.68 | 35.08 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 10:33:01 | 41.01 | 35.41 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 10:33:01 | 41.34 | 35.74 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:33:01 | 41.67 | 36.07 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 10:33:02 | 41.99 | 36.39 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 10:33:02 | 42.32 | 36.72 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:02 | 42.65 | 37.05 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:33:03 | 42.98 | 37.38 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:33:03 | 43.31 | 37.71 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:03 | 43.64 | 38.04 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 10:33:04 | 43.96 | 38.36 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 10:33:04 | 44.29 | 38.69 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 10:33:05 | 44.62 | 39.02 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 10:33:05 | 44.95 | 39.35 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 10:33:05 | 45.28 | 39.68 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:06 | 45.60 | 40.00 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:06 | 45.93 | 40.33 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 10:33:06 | 46.26 | 40.66 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:07 | 46.59 | 40.99 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:07 | 46.92 | 41.32 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 10:33:07 | 47.24 | 41.64 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 10:33:08 | 47.57 | 41.97 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 10:33:08 | 47.90 | 42.30 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 10:33:08 | 48.23 | 42.63 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:09 | 48.56 | 42.96 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:09 | 48.88 | 43.28 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:09 | 49.21 | 43.61 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:10 | 49.54 | 43.94 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:10 | 49.87 | 44.27 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:33:10 | 50.20 | 44.60 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 10:33:10 | 50.53 | 44.93 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 10:33:11 | 50.85 | 45.25 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:33:11 | 51.18 | 45.58 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:33:11 | 51.51 | 45.91 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 10:33:12 | 51.84 | 46.24 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 10:33:12 | 52.17 | 46.57 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 10:33:12 | 52.49 | 46.89 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 10:33:13 | 52.82 | 47.22 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 10:33:13 | 53.15 | 47.55 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 10:33:13 | 53.48 | 47.88 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 10:33:14 | 53.81 | 48.21 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 10:33:14 | 54.13 | 48.53 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 10:33:14 | 54.46 | 48.86 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 10:33:15 | 54.79 | 49.19 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 10:33:16 | 55.12 | 49.52 | 972 | 1.14 | 0.29 | 53.1 |
| 5/2/2015 10:33:16 | 55.45 | 49.85 | 972 | 1.14 | 0.29 | 53.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:33:16 | 55.77 | 50.17 | 942 | 1.14 | 0.29 | 51.5 |
| 5/2/2015 | 10:33:17 | 56.10 | 50.50 | 930 | 1.14 | 0.29 | 50.9 |
| 5/2/2015 | 10:33:17 | 56.43 | 50.83 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 | 10:33:18 | 56.76 | 51.16 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 | 10:33:18 | 57.09 | 51.49 | 916 | 1.14 | 0.29 | 50.1 |
| 5/2/2015 | 10:33:18 | 57.41 | 51.81 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 10:33:19 | 57.74 | 52.14 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 | 10:33:19 | 58.07 | 52.47 | 913 | 1.14 | 0.29 | 49.9 |
| 5/2/2015 | 10:33:19 | 58.40 | 52.80 | 910 | 1.14 | 0.29 | 49.8 |
| 5/2/2015 | 10:33:20 | 58.73 | 53.13 | 907 | 1.14 | 0.29 | 49.6 |
| 5/2/2015 | 10:33:21 | 59.06 | 53.46 | 668 | 1.14 | 0.29 | 36.6 |
| 5/2/2015 | 10:33:21 | 59.38 | 53.78 | 642 | 1.14 | 0.29 | 35.1 |
| 5/2/2015 | 10:33:22 | 59.71 | 54.11 | 611 | 1.14 | 0.29 | 33.4 |
| 5/2/2015 | 10:33:22 | 60.04 | 54.44 | 563 | 1.14 | 0.29 | 30.8 |
| 5/2/2015 | 10:33:25 | 60.37 | 54.77 | 162 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 | 10:33:26 | 60.52 | 54.92 | 185 | 1.14 | 0.29 | 10.1 |

## O24 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:31:34

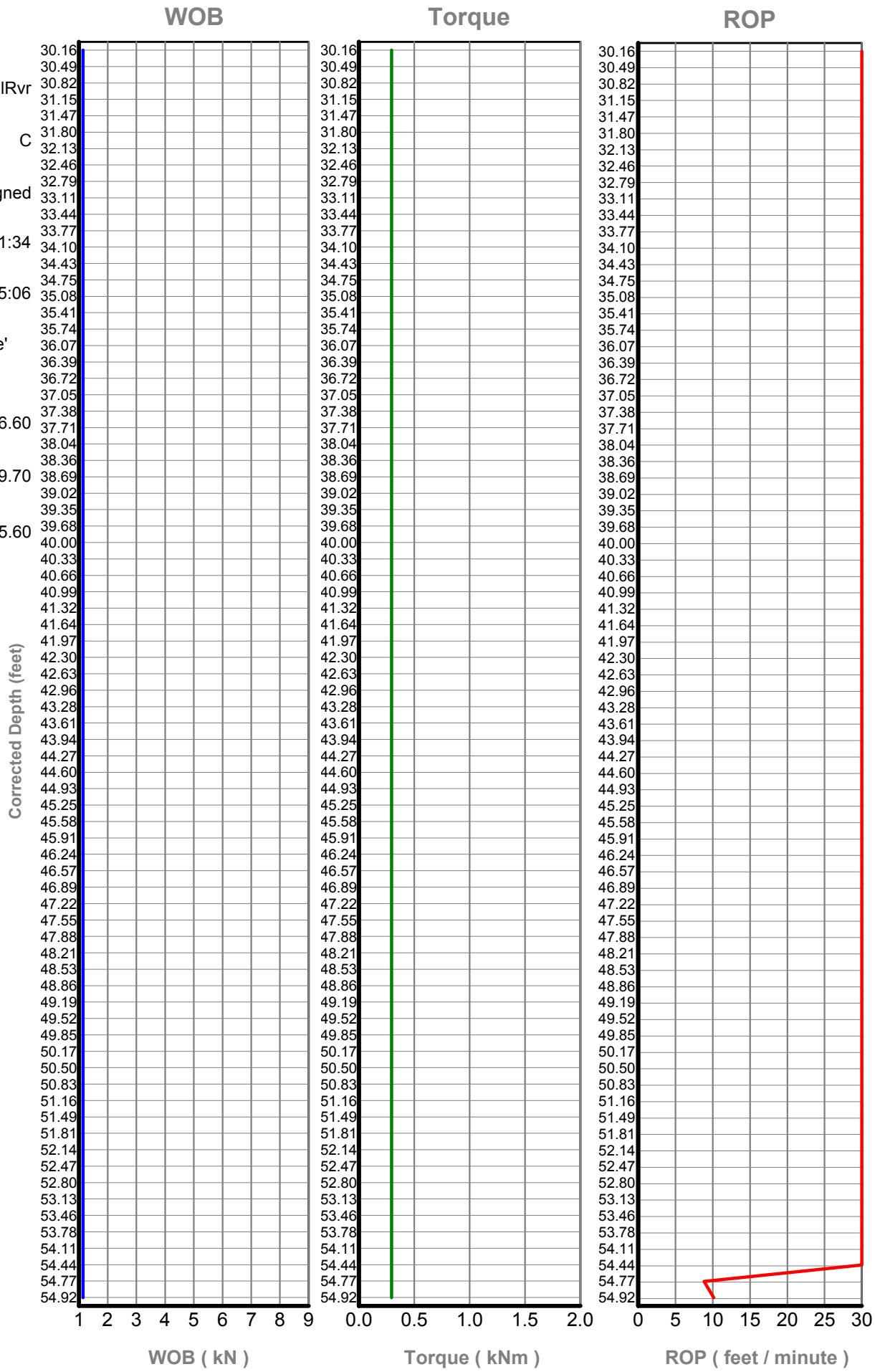
**End Date:**
5/2/2015 10:35:06

**Operator Note:**
'5.6 5.4 c Auto Complete'

**Northing:**
352,576.60

**Easting:**
229,819.70

**Tide (feet):**
5.60



## Hole: O25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:00:13 | 36.09 | 30.09 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 11:00:14 | 36.42 | 30.42 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 11:00:14 | 36.75 | 30.75 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 11:00:14 | 37.07 | 31.07 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 11:00:15 | 37.40 | 31.40 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 11:00:15 | 37.73 | 31.73 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 11:00:15 | 38.06 | 32.06 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 11:00:16 | 38.39 | 32.39 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 11:00:17 | 38.71 | 32.71 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 11:00:17 | 39.04 | 33.04 | 1,005 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 11:00:17 | 39.37 | 33.37 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 11:00:18 | 39.70 | 33.70 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 11:00:18 | 40.03 | 34.03 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 11:00:18 | 40.35 | 34.35 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 11:00:19 | 40.68 | 34.68 | 1,002 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 11:00:19 | 41.01 | 35.01 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 11:00:19 | 41.34 | 35.34 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 11:00:20 | 41.67 | 35.67 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 11:00:20 | 41.99 | 35.99 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 11:00:20 | 42.32 | 36.32 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 11:00:21 | 42.65 | 36.65 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 11:00:21 | 42.98 | 36.98 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 11:00:21 | 43.31 | 37.31 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 11:00:22 | 43.64 | 37.64 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 11:00:22 | 43.96 | 37.96 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 11:00:22 | 44.29 | 38.29 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 11:00:23 | 44.62 | 38.62 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 11:00:23 | 44.95 | 38.95 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 11:00:23 | 45.28 | 39.28 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 11:00:24 | 45.60 | 39.60 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 11:00:24 | 45.93 | 39.93 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 11:00:24 | 46.26 | 40.26 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 11:00:24 | 46.59 | 40.59 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 11:00:25 | 46.92 | 40.92 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:25 | 47.24 | 41.24 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:25 | 47.57 | 41.57 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 11:00:26 | 47.90 | 41.90 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:26 | 48.23 | 42.23 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:26 | 48.56 | 42.56 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:27 | 48.88 | 42.88 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:27 | 49.21 | 43.21 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:27 | 49.54 | 43.54 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:28 | 49.87 | 43.87 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:29 | 50.20 | 44.20 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:00:29 | 50.53 | 44.53 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:29 | 50.85 | 44.85 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 11:00:30 | 51.18 | 45.18 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 11:00:30 | 51.51 | 45.51 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 11:00:30 | 51.84 | 45.84 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:31 | 52.17 | 46.17 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:31 | 52.49 | 46.49 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 11:00:31 | 52.82 | 46.82 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 11:00:32 | 53.15 | 47.15 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 11:00:32 | 53.48 | 47.48 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 11:00:32 | 53.81 | 47.81 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 11:00:33 | 54.13 | 48.13 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 11:00:33 | 54.46 | 48.46 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 11:00:33 | 54.79 | 48.79 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 11:00:34 | 55.12 | 49.12 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 11:00:34 | 55.45 | 49.45 | 974 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 11:00:36 | 55.77 | 49.77 | 271 | 1.14 | 0.29 | 14.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:00:37 | 56.10 | 50.10 | 139 | 1.14 | 0.29 | 7.6 |
| 5/2/2015 | 11:00:37 | 56.43 | 50.43 | 224 | 1.14 | 0.29 | 12.3 |
| 5/2/2015 | 11:00:38 | 56.76 | 50.76 | 383 | 1.14 | 0.29 | 20.9 |
| 5/2/2015 | 11:00:38 | 57.09 | 51.09 | 549 | 1.14 | 0.29 | 30.0 |
| 5/2/2015 | 11:00:39 | 57.41 | 51.41 | 549 | 1.14 | 0.29 | 30.0 |
| 5/2/2015 | 11:00:39 | 57.74 | 51.74 | 711 | 1.14 | 0.29 | 38.9 |
| 5/2/2015 | 11:00:39 | 58.07 | 52.07 | 811 | 1.14 | 0.29 | 44.4 |
| 5/2/2015 | 11:00:40 | 58.40 | 52.40 | 791 | 1.14 | 0.29 | 43.3 |
| 5/2/2015 | 11:00:41 | 58.73 | 52.73 | 786 | 1.14 | 0.29 | 43.0 |
| 5/2/2015 | 11:00:41 | 59.06 | 53.06 | 771 | 1.14 | 0.29 | 42.2 |
| 5/2/2015 | 11:00:42 | 59.38 | 53.38 | 736 | 1.14 | 0.29 | 40.2 |
| 5/2/2015 | 11:00:43 | 59.71 | 53.71 | 590 | 1.14 | 0.29 | 32.3 |
| 5/2/2015 | 11:00:43 | 60.04 | 54.04 | 531 | 1.14 | 0.29 | 29.1 |
| 5/2/2015 | 11:00:44 | 60.37 | 54.37 | 479 | 1.14 | 0.29 | 26.2 |
| 5/2/2015 | 11:00:45 | 60.70 | 54.70 | 525 | 1.14 | 0.29 | 28.7 |
| 5/2/2015 | 11:00:45 | 61.02 | 55.02 | 594 | 1.14 | 0.29 | 32.5 |
| 5/2/2015 | 11:00:46 | 61.35 | 55.35 | 641 | 1.14 | 0.29 | 35.1 |
| 5/2/2015 | 11:00:46 | 61.50 | 55.50 | 641 | 1.14 | 0.29 | 35.1 |

## O25 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:59:02

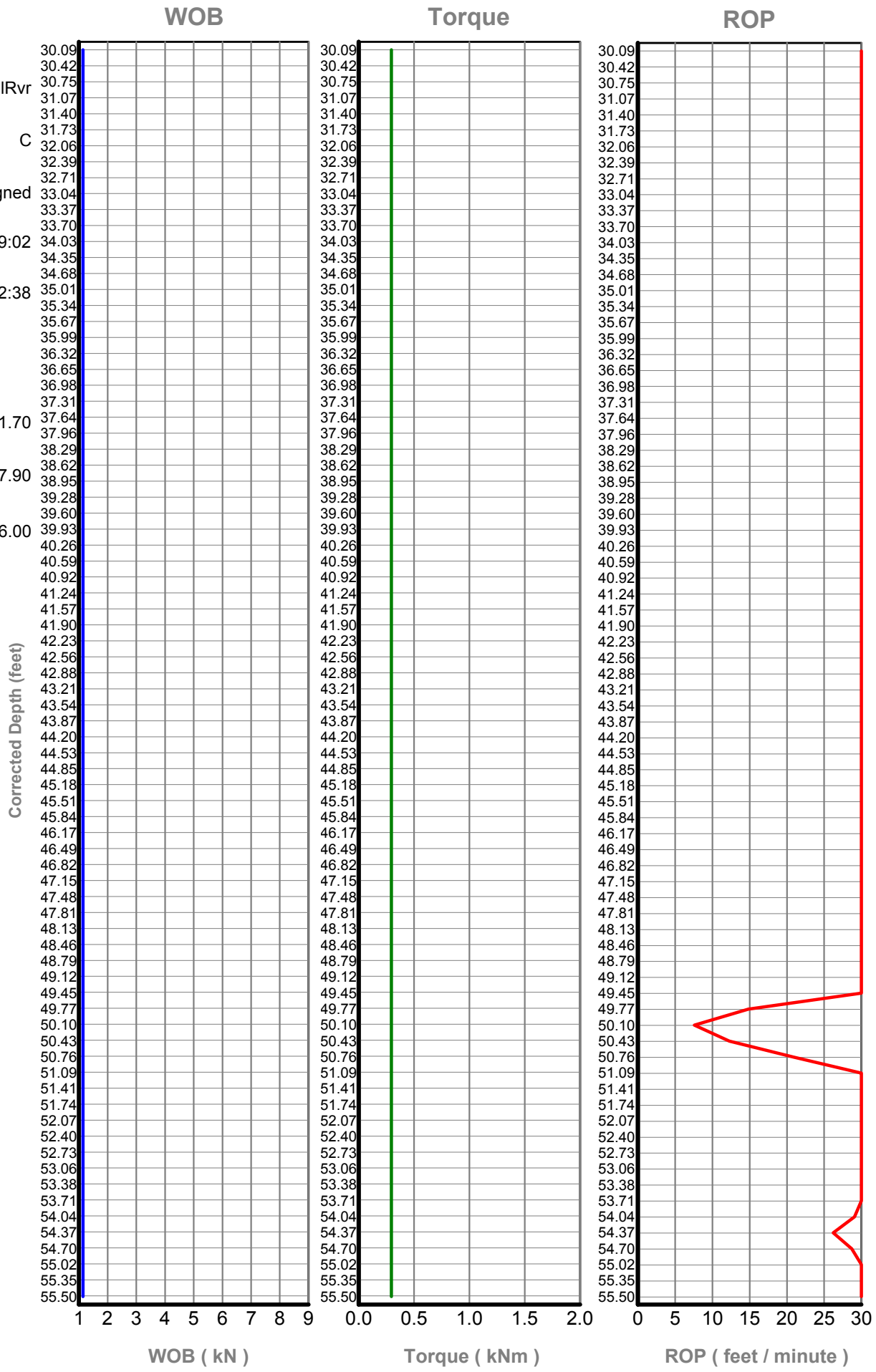
**End Date:**
5/2/2015 11:02:38

**Operator Note:**
'6 5.8 c Auto Complete'

**Northing:**
352,611.70

**Easting:**
229,877.90

**Tide (feet):**
6.00



## Hole: O26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:12:06 | 36.42 | 30.32 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:06 | 36.75 | 30.65 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:06 | 37.07 | 30.97 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:07 | 37.40 | 31.30 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:07 | 37.73 | 31.63 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:07 | 38.06 | 31.96 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:08 | 38.39 | 32.29 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:08 | 38.71 | 32.61 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:08 | 39.04 | 32.94 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 11:12:09 | 39.37 | 33.27 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 11:12:09 | 39.70 | 33.60 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 11:12:09 | 40.03 | 33.93 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 11:12:10 | 40.35 | 34.25 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 11:12:10 | 40.68 | 34.58 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 11:12:10 | 41.01 | 34.91 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 11:12:11 | 41.34 | 35.24 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 11:12:11 | 41.67 | 35.57 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 11:12:11 | 41.99 | 35.89 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 11:12:12 | 42.32 | 36.22 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 11:12:12 | 42.65 | 36.55 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:12 | 42.98 | 36.88 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:12 | 43.31 | 37.21 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 11:12:13 | 43.64 | 37.54 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:13 | 43.96 | 37.86 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:13 | 44.29 | 38.19 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 11:12:14 | 44.62 | 38.52 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:15 | 44.95 | 38.85 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:14 | 45.28 | 39.18 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 11:12:15 | 45.60 | 39.50 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 11:12:15 | 45.93 | 39.83 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 11:12:15 | 46.26 | 40.16 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 11:12:16 | 46.59 | 40.49 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 11:12:16 | 46.92 | 40.82 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 11:12:17 | 47.24 | 41.14 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 11:12:17 | 47.57 | 41.47 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 11:12:17 | 47.90 | 41.80 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 11:12:18 | 48.23 | 42.13 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:18 | 48.56 | 42.46 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 11:12:18 | 48.88 | 42.78 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:19 | 49.21 | 43.11 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:19 | 49.54 | 43.44 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 11:12:19 | 49.87 | 43.77 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 11:12:20 | 50.20 | 44.10 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 11:12:20 | 50.53 | 44.43 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 11:12:20 | 50.85 | 44.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 11:12:21 | 51.18 | 45.08 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 11:12:21 | 51.51 | 45.41 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 11:12:21 | 51.84 | 45.74 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 11:12:22 | 52.17 | 46.07 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 11:12:22 | 52.49 | 46.39 | 1,069 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 11:12:22 | 52.82 | 46.72 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:12:23 | 53.15 | 47.05 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 11:12:31 | 53.48 | 47.38 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 11:12:32 | 53.81 | 47.71 | 74 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 11:12:32 | 54.13 | 48.03 | 259 | 1.14 | 0.29 | 14.2 |
| 5/2/2015 11:12:33 | 54.46 | 48.36 | 259 | 1.14 | 0.29 | 14.2 |
| 5/2/2015 11:12:36 | 54.79 | 48.69 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 11:12:37 | 55.12 | 49.02 | 109 | 1.14 | 0.29 | 5.9 |
| 5/2/2015 11:12:38 | 55.45 | 49.35 | 203 | 1.14 | 0.29 | 11.1 |
| 5/2/2015 11:12:39 | 55.77 | 49.67 | 413 | 1.14 | 0.29 | 22.6 |
| 5/2/2015 11:12:40 | 56.10 | 50.00 | 521 | 1.14 | 0.29 | 28.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:12:40 | 56.43 | 50.33 | 536 | 1.14 | 0.29 | 29.3 |
| 5/2/2015 | 11:13:19 | 56.76 | 50.66 | 51 | 1.14 | 0.29 | 2.8 |
| 5/2/2015 | 11:13:20 | 57.09 | 50.99 | 236 | 1.14 | 0.29 | 12.9 |
| 5/2/2015 | 11:13:21 | 57.41 | 51.31 | 236 | 1.14 | 0.29 | 12.9 |
| 5/2/2015 | 11:13:29 | 57.74 | 51.64 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 | 11:13:30 | 58.07 | 51.97 | 215 | 1.14 | 0.29 | 11.8 |
| 5/2/2015 | 11:13:32 | 58.40 | 52.30 | 220 | 1.14 | 0.29 | 12.0 |
| 5/2/2015 | 11:13:34 | 58.73 | 52.63 | 133 | 1.14 | 0.29 | 7.3 |
| 5/2/2015 | 11:14:00 | 59.06 | 52.96 | 43 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 11:14:00 | 59.38 | 53.28 | 137 | 1.14 | 0.29 | 7.5 |
| 5/2/2015 | 11:14:03 | 59.71 | 53.61 | 291 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 | 11:14:13 | 60.04 | 53.94 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 | 11:14:14 | 60.37 | 54.27 | 247 | 1.14 | 0.29 | 13.5 |
| 5/2/2015 | 11:14:15 | 60.70 | 54.60 | 344 | 1.14 | 0.29 | 18.8 |
| 5/2/2015 | 11:14:16 | 61.02 | 54.92 | 349 | 1.14 | 0.29 | 19.1 |
| 5/2/2015 | 11:14:17 | 61.11 | 55.01 | 311 | 1.14 | 0.29 | 17.0 |

## O26 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 11:10:51

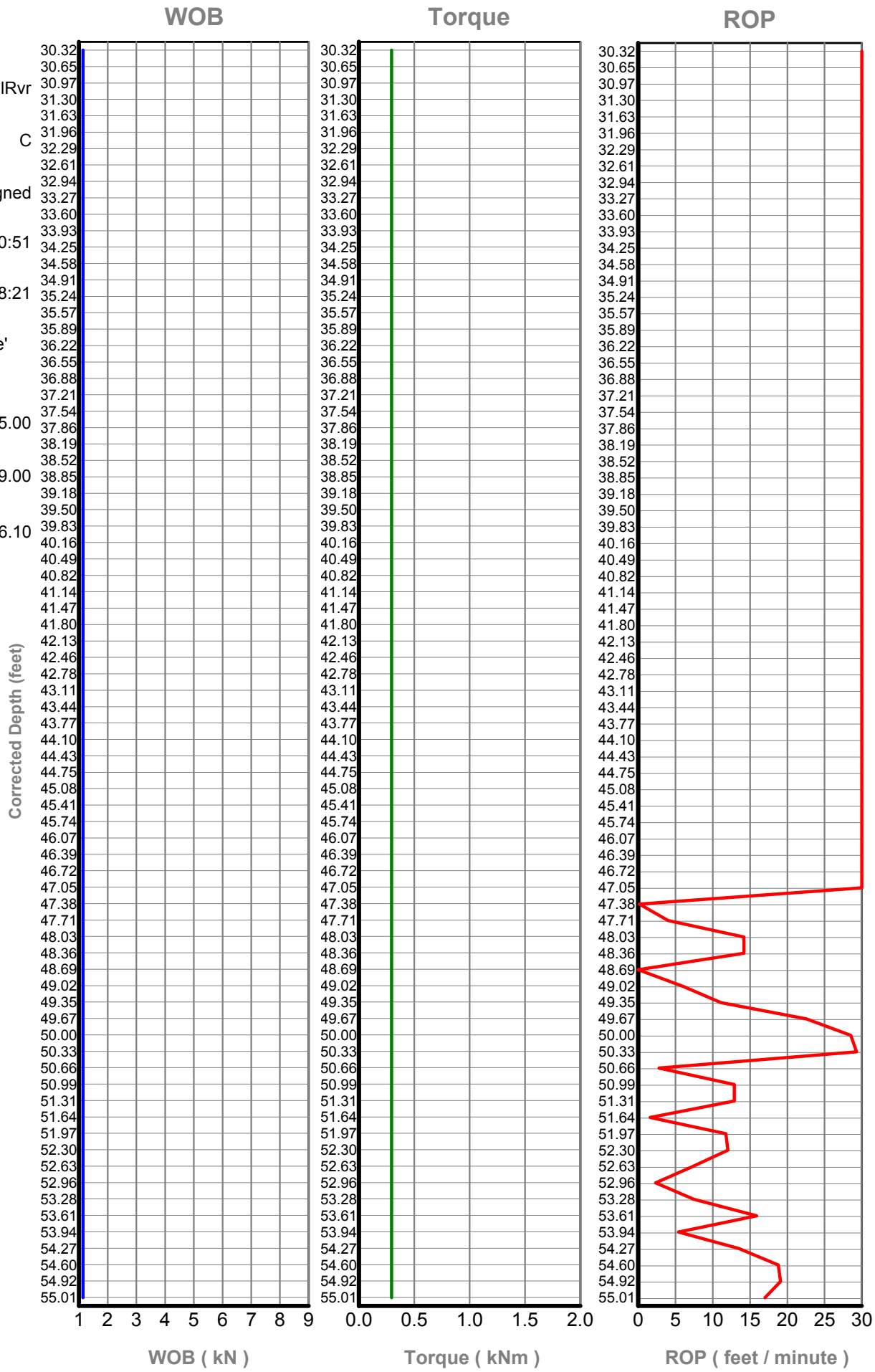
**End Date:**
5/2/2015 11:18:21

**Operator Note:**
'6.1 5.9 c Auto Complete'

**Northing:**
352,655.00

**Easting:**
229,939.00

**Tide (feet):**
6.10



## Hole: O3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 9:41:55 | 34.78 | 30.18 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 9:41:55 | 35.11 | 30.51 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 9:41:56 | 35.43 | 30.83 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 9:41:56 | 35.76 | 31.16 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 9:41:57 | 36.09 | 31.49 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 9:41:57 | 36.42 | 31.82 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 9:41:57 | 36.75 | 32.15 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 9:41:58 | 37.07 | 32.47 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 9:41:58 | 37.40 | 32.80 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 9:41:58 | 37.73 | 33.13 | 992 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:41:59 | 38.06 | 33.46 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 9:41:59 | 38.39 | 33.79 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 9:42:00 | 38.71 | 34.11 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 9:42:00 | 39.04 | 34.44 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 9:42:00 | 39.37 | 34.77 | 973 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 9:42:01 | 39.70 | 35.10 | 973 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 9:42:01 | 40.03 | 35.43 | 967 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 9:42:01 | 40.35 | 35.75 | 967 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 9:42:02 | 40.68 | 36.08 | 967 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 9:42:02 | 41.01 | 36.41 | 963 | 1.14 | 0.29 | 52.7 |
| 5/2/2015 9:42:02 | 41.34 | 36.74 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 9:42:03 | 41.67 | 37.07 | 981 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 9:42:03 | 41.99 | 37.39 | 981 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 9:42:03 | 42.32 | 37.72 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 9:42:04 | 42.65 | 38.05 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:42:04 | 42.98 | 38.38 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:42:04 | 43.31 | 38.71 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 9:42:05 | 43.64 | 39.04 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 9:42:05 | 43.96 | 39.36 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:06 | 44.29 | 39.69 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:06 | 44.62 | 40.02 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:06 | 44.95 | 40.35 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:07 | 45.28 | 40.68 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:07 | 45.60 | 41.00 | 952 | 1.14 | 0.29 | 52.1 |
| 5/2/2015 9:42:08 | 45.93 | 41.33 | 958 | 1.14 | 0.29 | 52.4 |
| 5/2/2015 9:42:08 | 46.26 | 41.66 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 9:42:08 | 46.59 | 41.99 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 9:42:09 | 46.92 | 42.32 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 9:42:09 | 47.24 | 42.64 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 9:42:10 | 47.57 | 42.97 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 9:42:10 | 47.90 | 43.30 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 9:42:10 | 48.23 | 43.63 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 9:42:11 | 48.56 | 43.96 | 1,013 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 9:42:11 | 48.88 | 44.28 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 9:42:11 | 49.21 | 44.61 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 9:42:12 | 49.54 | 44.94 | 956 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 9:42:12 | 49.87 | 45.27 | 956 | 1.14 | 0.29 | 52.3 |
| 5/2/2015 9:42:30 | 50.20 | 45.60 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 9:42:31 | 50.53 | 45.93 | 156 | 1.14 | 0.29 | 8.5 |
| 5/2/2015 9:42:32 | 50.85 | 46.25 | 156 | 1.14 | 0.29 | 8.5 |
| 5/2/2015 9:42:32 | 51.18 | 46.58 | 342 | 1.14 | 0.29 | 18.7 |
| 5/2/2015 9:42:32 | 51.51 | 46.91 | 530 | 1.14 | 0.29 | 29.0 |
| 5/2/2015 9:42:33 | 51.84 | 47.24 | 710 | 1.14 | 0.29 | 38.8 |
| 5/2/2015 9:42:33 | 52.17 | 47.57 | 710 | 1.14 | 0.29 | 38.8 |
| 5/2/2015 9:42:33 | 52.49 | 47.89 | 882 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:42:34 | 52.82 | 48.22 | 914 | 1.14 | 0.29 | 50.0 |
| 5/2/2015 9:42:34 | 53.15 | 48.55 | 908 | 1.14 | 0.29 | 49.7 |
| 5/2/2015 9:42:35 | 53.48 | 48.88 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:42:35 | 53.81 | 49.21 | 881 | 1.14 | 0.29 | 48.2 |
| 5/2/2015 9:42:35 | 54.13 | 49.53 | 875 | 1.14 | 0.29 | 47.9 |
| 5/2/2015 9:42:36 | 54.46 | 49.86 | 871 | 1.14 | 0.29 | 47.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 9:42:36 | 54.79 | 50.19 | 834 | 1.14 | 0.29 | 45.6 |
| 5/2/2015 | 9:42:37 | 55.12 | 50.52 | 816 | 1.14 | 0.29 | 44.6 |
| 5/2/2015 | 9:42:37 | 55.45 | 50.85 | 816 | 1.14 | 0.29 | 44.6 |
| 5/2/2015 | 9:42:38 | 55.77 | 51.17 | 816 | 1.14 | 0.29 | 44.6 |
| 5/2/2015 | 9:42:38 | 56.10 | 51.50 | 822 | 1.14 | 0.29 | 44.9 |
| 5/2/2015 | 9:42:38 | 56.43 | 51.83 | 805 | 1.14 | 0.29 | 44.0 |
| 5/2/2015 | 9:42:39 | 56.76 | 52.16 | 805 | 1.14 | 0.29 | 44.0 |
| 5/2/2015 | 9:42:39 | 57.09 | 52.49 | 799 | 1.14 | 0.29 | 43.7 |
| 5/2/2015 | 9:42:40 | 57.41 | 52.81 | 812 | 1.14 | 0.29 | 44.4 |
| 5/2/2015 | 9:42:40 | 57.74 | 53.14 | 807 | 1.14 | 0.29 | 44.1 |
| 5/2/2015 | 9:42:41 | 58.07 | 53.47 | 807 | 1.14 | 0.29 | 44.1 |
| 5/2/2015 | 9:42:41 | 58.40 | 53.80 | 803 | 1.14 | 0.29 | 43.9 |
| 5/2/2015 | 9:42:41 | 58.73 | 54.13 | 803 | 1.14 | 0.29 | 43.9 |
| 5/2/2015 | 9:42:42 | 59.06 | 54.46 | 823 | 1.14 | 0.29 | 45.0 |
| 5/2/2015 | 9:42:43 | 59.38 | 54.78 | 827 | 1.14 | 0.29 | 45.2 |
| 5/2/2015 | 9:42:43 | 59.71 | 55.11 | 819 | 1.14 | 0.29 | 44.8 |
| 5/2/2015 | 9:42:43 | 59.99 | 55.39 | 819 | 1.14 | 0.29 | 44.8 |

## O3 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/2/2015 9:40:32

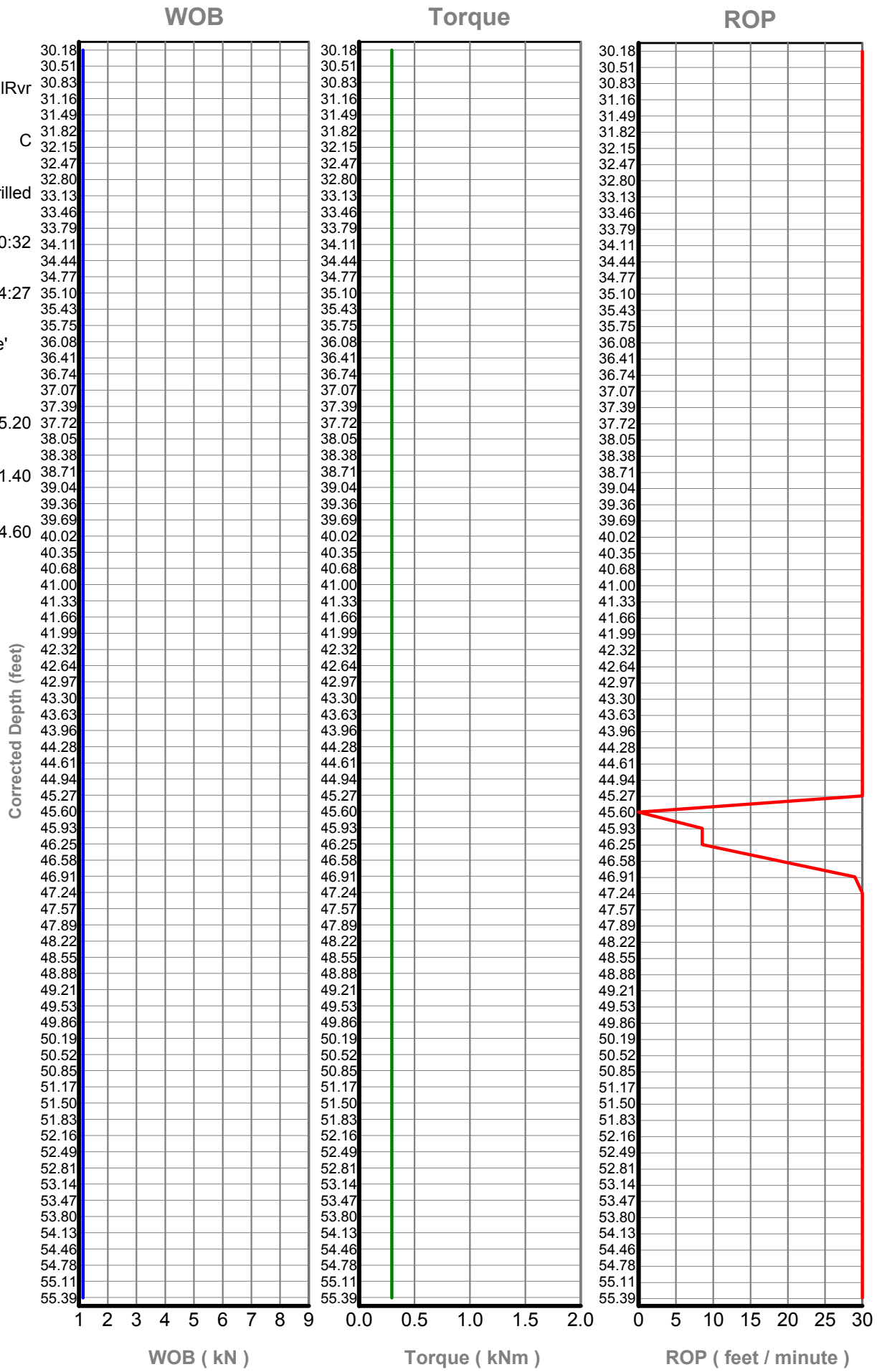
**End Date:**
5/2/2015 9:44:27

**Operator Note:**
'4.6 4.4 c Auto Complete'

**Northing:**
352,355.20

**Easting:**
229,171.40

**Tide (feet):**
4.60



## Hole: O4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:06:53 | 35.11 | 30.11 | 885 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 10:06:53 | 35.43 | 30.43 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 10:06:54 | 35.76 | 30.76 | 877 | 0.54 | 0.17 | 47.9 |
| 5/2/2015 10:06:54 | 36.09 | 31.09 | 882 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:06:55 | 36.42 | 31.42 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:55 | 36.75 | 31.75 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:55 | 37.07 | 32.07 | 883 | 0.54 | 0.17 | 48.3 |
| 5/2/2015 10:06:56 | 37.40 | 32.40 | 888 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 10:06:56 | 37.73 | 32.73 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 10:06:57 | 38.06 | 33.06 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 10:06:57 | 38.39 | 33.39 | 888 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:57 | 38.71 | 33.71 | 888 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:58 | 39.04 | 34.04 | 895 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 10:06:58 | 39.37 | 34.37 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:59 | 39.70 | 34.70 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:59 | 40.03 | 35.03 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:06:59 | 40.35 | 35.35 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:07:00 | 40.68 | 35.68 | 887 | 0.54 | 0.17 | 48.5 |
| 5/2/2015 10:07:00 | 41.01 | 36.01 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:01 | 41.34 | 36.34 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:01 | 41.67 | 36.67 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:01 | 41.99 | 36.99 | 876 | 0.54 | 0.17 | 47.9 |
| 5/2/2015 10:07:02 | 42.32 | 37.32 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:02 | 42.65 | 37.65 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:02 | 42.98 | 37.98 | 878 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 10:07:03 | 43.31 | 38.31 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:03 | 43.64 | 38.64 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:04 | 43.96 | 38.96 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:04 | 44.29 | 39.29 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 10:07:04 | 44.62 | 39.62 | 878 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 10:07:05 | 44.95 | 39.95 | 876 | 0.54 | 0.17 | 47.9 |
| 5/2/2015 10:07:06 | 45.28 | 40.28 | 878 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 10:07:06 | 45.60 | 40.60 | 878 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 10:07:16 | 45.93 | 40.93 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 10:07:16 | 46.26 | 41.26 | 69 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 10:07:18 | 46.59 | 41.59 | 237 | 0.54 | 0.17 | 13.0 |
| 5/2/2015 10:07:19 | 46.92 | 41.92 | 340 | 0.54 | 0.17 | 18.6 |
| 5/2/2015 10:07:21 | 47.24 | 42.24 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 10:07:22 | 47.57 | 42.57 | 262 | 0.54 | 0.17 | 14.3 |
| 5/2/2015 10:07:23 | 47.90 | 42.90 | 248 | 0.54 | 0.17 | 13.5 |
| 5/2/2015 10:07:24 | 48.23 | 43.23 | 276 | 0.54 | 0.17 | 15.1 |
| 5/2/2015 10:07:25 | 48.56 | 43.56 | 314 | 0.54 | 0.17 | 17.2 |
| 5/2/2015 10:07:27 | 48.88 | 43.88 | 221 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 10:07:34 | 49.21 | 44.21 | 22 | 0.54 | 0.17 | 1.2 |
| 5/2/2015 10:07:42 | 49.54 | 44.54 | 21 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 10:07:43 | 49.87 | 44.87 | 154 | 0.54 | 0.17 | 8.4 |
| 5/2/2015 10:07:45 | 50.20 | 45.20 | 197 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 10:07:45 | 50.53 | 45.53 | 206 | 0.54 | 0.17 | 11.2 |
| 5/2/2015 10:07:46 | 50.85 | 45.85 | 331 | 0.54 | 0.17 | 18.1 |
| 5/2/2015 10:07:47 | 51.18 | 46.18 | 422 | 0.54 | 0.17 | 23.1 |
| 5/2/2015 10:07:49 | 51.51 | 46.51 | 252 | 0.54 | 0.17 | 13.8 |
| 5/2/2015 10:07:50 | 51.84 | 46.84 | 227 | 0.54 | 0.17 | 12.4 |
| 5/2/2015 10:07:51 | 52.17 | 47.17 | 282 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 10:07:53 | 52.49 | 47.49 | 201 | 0.54 | 0.17 | 11.0 |
| 5/2/2015 10:07:54 | 52.82 | 47.82 | 161 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 10:07:55 | 53.15 | 48.15 | 275 | 0.54 | 0.17 | 15.0 |
| 5/2/2015 10:07:56 | 53.48 | 48.48 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 10:07:57 | 53.81 | 48.81 | 326 | 0.54 | 0.17 | 17.8 |
| 5/2/2015 10:07:58 | 54.13 | 49.13 | 344 | 0.54 | 0.17 | 18.8 |
| 5/2/2015 10:07:59 | 54.46 | 49.46 | 346 | 0.54 | 0.17 | 18.9 |
| 5/2/2015 10:08:00 | 54.79 | 49.79 | 346 | 0.54 | 0.17 | 18.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:08:01 | 55.12 | 50.12 | 386 | 0.54 | 0.17 | 21.1 |
| 5/2/2015 | 10:08:04 | 55.45 | 50.45 | 154 | 0.54 | 0.17 | 8.4 |
| 5/2/2015 | 10:08:07 | 55.77 | 50.77 | 161 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 | 10:08:09 | 56.10 | 51.10 | 189 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 | 10:08:11 | 56.43 | 51.43 | 177 | 0.54 | 0.17 | 9.7 |
| 5/2/2015 | 10:08:12 | 56.76 | 51.76 | 180 | 0.54 | 0.17 | 9.9 |
| 5/2/2015 | 10:08:13 | 57.09 | 52.09 | 265 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 | 10:08:15 | 57.41 | 52.41 | 272 | 0.54 | 0.17 | 14.9 |
| 5/2/2015 | 10:08:16 | 57.74 | 52.74 | 274 | 0.54 | 0.17 | 15.0 |
| 5/2/2015 | 10:08:17 | 58.07 | 53.07 | 289 | 0.54 | 0.17 | 15.8 |
| 5/2/2015 | 10:08:19 | 58.40 | 53.40 | 269 | 0.54 | 0.17 | 14.7 |
| 5/2/2015 | 10:08:20 | 58.73 | 53.73 | 215 | 0.54 | 0.17 | 11.7 |
| 5/2/2015 | 10:08:21 | 59.06 | 54.06 | 226 | 0.54 | 0.17 | 12.4 |
| 5/2/2015 | 10:08:22 | 59.38 | 54.38 | 287 | 0.54 | 0.17 | 15.7 |
| 5/2/2015 | 10:08:24 | 59.71 | 54.71 | 280 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 | 10:08:26 | 59.96 | 54.96 | 108 | 0.54 | 0.17 | 5.9 |

## O4 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:05:23

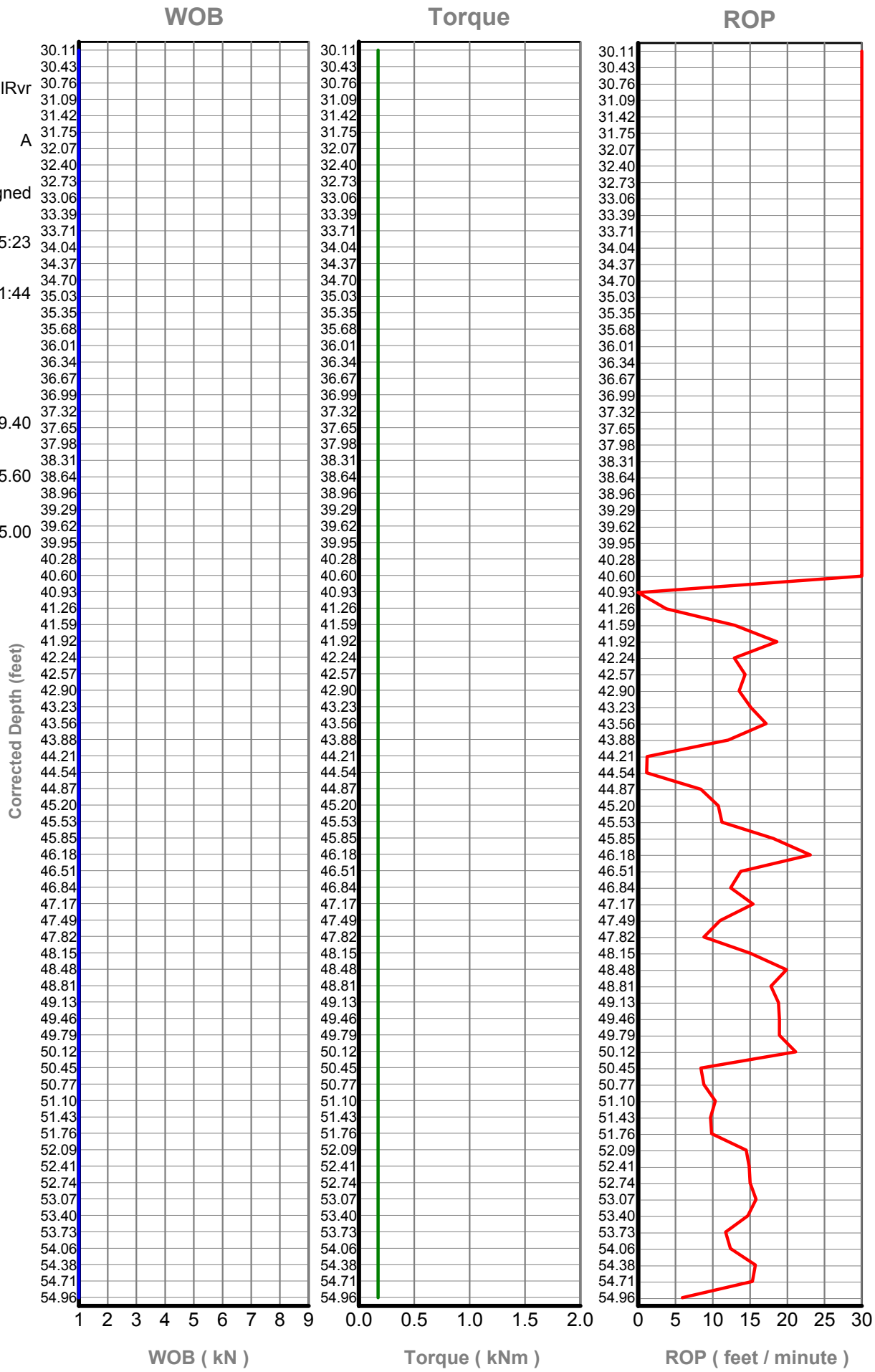
**End Date:**
5/2/2015 10:11:44

**Operator Note:**
'5 4.9 a Auto Complete'

**Northing:**
352,599.40

**Easting:**
229,575.60

**Tide (feet):**
5.00



## Hole: O6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:20:15 | 35.43 | 30.03 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:15 | 35.76 | 30.36 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:16 | 36.09 | 30.69 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 10:20:17 | 36.42 | 31.02 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:17 | 36.75 | 31.35 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:17 | 37.07 | 31.67 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 10:20:18 | 37.40 | 32.00 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:18 | 37.73 | 32.33 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 10:20:19 | 38.06 | 32.66 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 10:20:19 | 38.39 | 32.99 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 10:20:19 | 38.71 | 33.31 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 10:20:20 | 39.04 | 33.64 | 940 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 10:20:20 | 39.37 | 33.97 | 940 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 10:20:20 | 39.70 | 34.30 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 10:20:21 | 40.03 | 34.63 | 940 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 10:20:21 | 40.35 | 34.95 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:22 | 40.68 | 35.28 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:22 | 41.01 | 35.61 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 10:20:22 | 41.34 | 35.94 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:23 | 41.67 | 36.27 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:23 | 41.99 | 36.59 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:23 | 42.32 | 36.92 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:20:24 | 42.65 | 37.25 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:20:24 | 42.98 | 37.58 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:20:24 | 43.31 | 37.91 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:25 | 43.64 | 38.24 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:25 | 43.96 | 38.56 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:26 | 44.29 | 38.89 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:26 | 44.62 | 39.22 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:20:26 | 44.95 | 39.55 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:20:40 | 45.28 | 39.88 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 10:20:41 | 45.60 | 40.20 | 134 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 10:20:43 | 45.93 | 40.53 | 159 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 10:20:46 | 46.26 | 40.86 | 141 | 0.54 | 0.17 | 7.7 |
| 5/2/2015 10:20:58 | 46.59 | 41.19 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 10:21:01 | 46.92 | 41.52 | 101 | 0.54 | 0.17 | 5.5 |
| 5/2/2015 10:21:04 | 47.24 | 41.84 | 157 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 10:21:05 | 47.57 | 42.17 | 170 | 0.54 | 0.17 | 9.3 |
| 5/2/2015 10:21:07 | 47.90 | 42.50 | 264 | 0.54 | 0.17 | 14.4 |
| 5/2/2015 10:21:08 | 48.23 | 42.83 | 327 | 0.54 | 0.17 | 17.9 |
| 5/2/2015 10:21:08 | 48.56 | 43.16 | 304 | 0.54 | 0.17 | 16.6 |
| 5/2/2015 10:21:09 | 48.88 | 43.48 | 426 | 0.54 | 0.17 | 23.3 |
| 5/2/2015 10:21:10 | 49.21 | 43.81 | 414 | 0.54 | 0.17 | 22.6 |
| 5/2/2015 10:21:10 | 49.54 | 44.14 | 494 | 0.54 | 0.17 | 27.0 |
| 5/2/2015 10:21:11 | 49.87 | 44.47 | 523 | 0.54 | 0.17 | 28.6 |
| 5/2/2015 10:21:12 | 50.20 | 44.80 | 532 | 0.54 | 0.17 | 29.1 |
| 5/2/2015 10:21:13 | 50.53 | 45.13 | 483 | 0.54 | 0.17 | 26.4 |
| 5/2/2015 10:21:13 | 50.85 | 45.45 | 448 | 0.54 | 0.17 | 24.5 |
| 5/2/2015 10:21:15 | 51.18 | 45.78 | 361 | 0.54 | 0.17 | 19.7 |
| 5/2/2015 10:21:16 | 51.51 | 46.11 | 361 | 0.54 | 0.17 | 19.7 |
| 5/2/2015 10:21:20 | 51.84 | 46.44 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 10:21:30 | 52.17 | 46.77 | 23 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 10:21:46 | 52.49 | 47.09 | 21 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 10:22:03 | 52.82 | 47.42 | 20 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 10:22:20 | 53.15 | 47.75 | 20 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 10:22:22 | 53.19 | 47.79 | 19 | 0.54 | 0.17 | 1.0 |

## O6 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:18:57

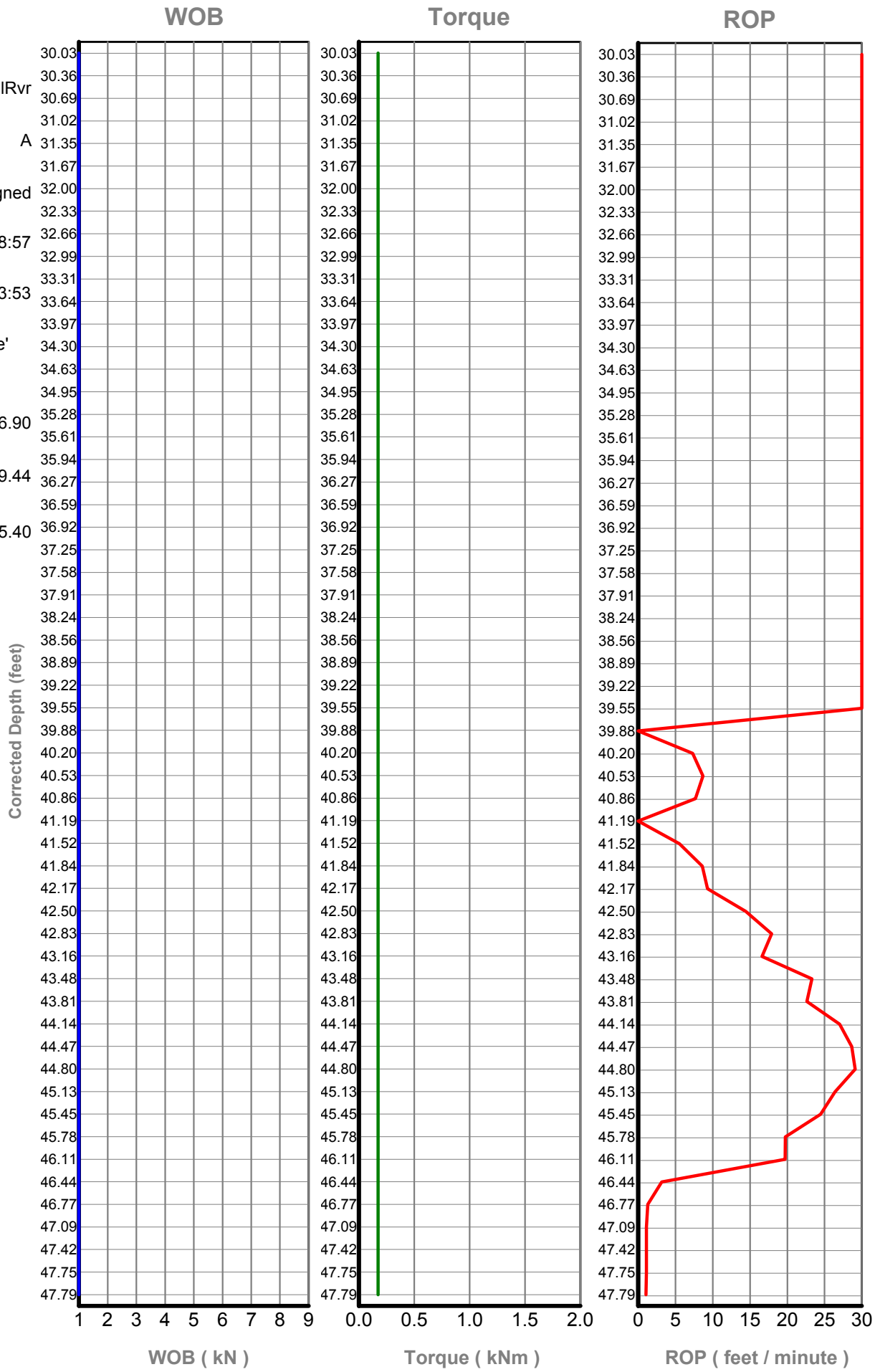
**End Date:**
5/2/2015 10:23:53

**Operator Note:**
'5.4 5.1 a Auto Complete'

**Northing:**
352,666.90

**Easting:**
229,669.44

**Tide (feet):**
5.40



## Hole: O7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 10:33:57 | 35.76 | 30.16 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:33:58 | 36.09 | 30.49 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:33:58 | 36.42 | 30.82 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:33:59 | 36.75 | 31.15 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:33:59 | 37.07 | 31.47 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:33:59 | 37.40 | 31.80 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:00 | 37.73 | 32.13 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:00 | 38.06 | 32.46 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:00 | 38.39 | 32.79 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:34:01 | 38.71 | 33.11 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:01 | 39.04 | 33.44 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 10:34:02 | 39.37 | 33.77 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 10:34:02 | 39.70 | 34.10 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 10:34:02 | 40.03 | 34.43 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 10:34:03 | 40.35 | 34.75 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:34:03 | 40.68 | 35.08 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:34:03 | 41.01 | 35.41 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 10:34:04 | 41.34 | 35.74 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:34:05 | 41.67 | 36.07 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:05 | 41.99 | 36.39 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:05 | 42.32 | 36.72 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:06 | 42.65 | 37.05 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:06 | 42.98 | 37.38 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:07 | 43.31 | 37.71 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:07 | 43.64 | 38.04 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:07 | 43.96 | 38.36 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:08 | 44.29 | 38.69 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:08 | 44.62 | 39.02 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 10:34:08 | 44.95 | 39.35 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:09 | 45.28 | 39.68 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:09 | 45.60 | 40.00 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:09 | 45.93 | 40.33 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:10 | 46.26 | 40.66 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 10:34:10 | 46.59 | 40.99 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:11 | 46.92 | 41.32 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:11 | 47.24 | 41.64 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 10:34:11 | 47.57 | 41.97 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:12 | 47.90 | 42.30 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:12 | 48.23 | 42.63 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:12 | 48.56 | 42.96 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 10:34:13 | 48.88 | 43.28 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 10:34:13 | 49.21 | 43.61 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:14 | 49.54 | 43.94 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:14 | 49.87 | 44.27 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 10:34:14 | 50.20 | 44.60 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 10:34:15 | 50.53 | 44.93 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:15 | 50.85 | 45.25 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 10:34:15 | 51.18 | 45.58 | 920 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 10:34:16 | 51.51 | 45.91 | 917 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 10:34:17 | 51.84 | 46.24 | 911 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 10:34:17 | 52.17 | 46.57 | 897 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 10:34:31 | 52.49 | 46.89 | 65 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 10:34:32 | 52.82 | 47.22 | 233 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 10:34:32 | 53.15 | 47.55 | 310 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 10:34:33 | 53.48 | 47.88 | 392 | 0.54 | 0.17 | 21.5 |
| 5/2/2015 10:34:35 | 53.81 | 48.21 | 229 | 0.54 | 0.17 | 12.5 |
| 5/2/2015 10:34:37 | 54.13 | 48.53 | 192 | 0.54 | 0.17 | 10.5 |
| 5/2/2015 10:34:38 | 54.46 | 48.86 | 246 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 10:34:39 | 54.79 | 49.19 | 303 | 0.54 | 0.17 | 16.6 |
| 5/2/2015 10:34:41 | 55.12 | 49.52 | 262 | 0.54 | 0.17 | 14.3 |
| 5/2/2015 10:34:43 | 55.45 | 49.85 | 207 | 0.54 | 0.17 | 11.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 10:34:45 | 55.77 | 50.17 | 254 | 0.54 | 0.17 | 13.9 |
| 5/2/2015 | 10:34:45 | 56.10 | 50.50 | 263 | 0.54 | 0.17 | 14.4 |
| 5/2/2015 | 10:34:47 | 56.43 | 50.83 | 221 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 | 10:34:50 | 56.76 | 51.16 | 123 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 | 10:34:53 | 57.09 | 51.49 | 136 | 0.54 | 0.17 | 7.4 |
| 5/2/2015 | 10:34:55 | 57.41 | 51.81 | 136 | 0.54 | 0.17 | 7.4 |
| 5/2/2015 | 10:34:58 | 57.74 | 52.14 | 122 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 | 10:35:02 | 58.07 | 52.47 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 10:35:07 | 58.40 | 52.80 | 67 | 0.54 | 0.17 | 3.7 |
| 5/2/2015 | 10:35:12 | 58.73 | 53.13 | 73 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 | 10:35:16 | 59.06 | 53.46 | 84 | 0.54 | 0.17 | 4.6 |
| 5/2/2015 | 10:35:19 | 59.38 | 53.78 | 160 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 | 10:35:22 | 59.71 | 54.11 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 | 10:35:26 | 60.04 | 54.44 | 93 | 0.54 | 0.17 | 5.1 |
| 5/2/2015 | 10:35:31 | 60.37 | 54.77 | 81 | 0.54 | 0.17 | 4.5 |

## O7 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:32:25

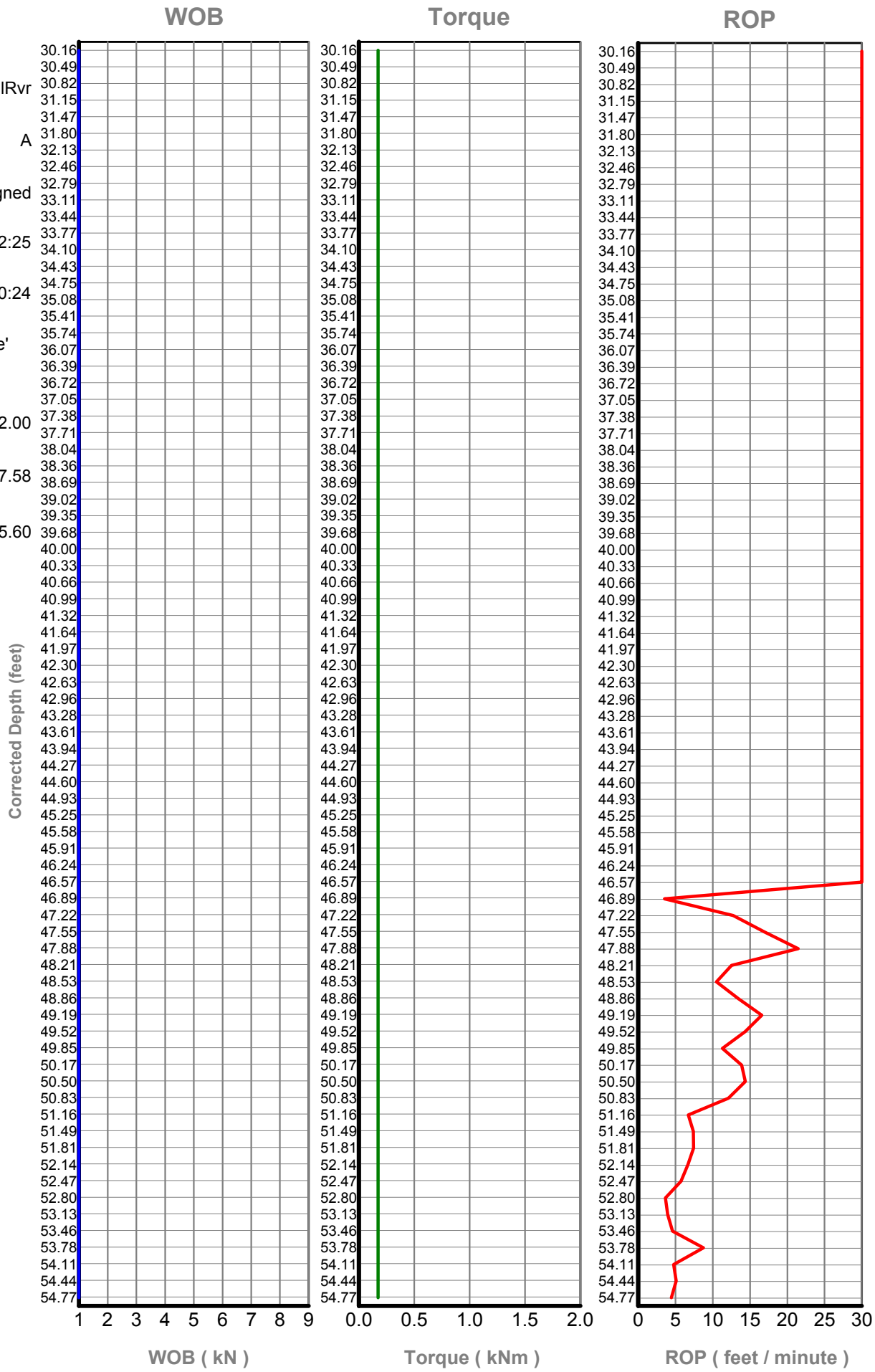
**End Date:**
5/2/2015 10:50:24

**Operator Note:**
'5.6 5.4 a Auto Complete'

**Northing:**
352,702.00

**Easting:**
229,737.58

**Tide (feet):**
5.60



## Hole: O8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:00:17 | 36.09 | 30.09 | 599 | 0.54 | 0.17 | 32.8 |
| 5/2/2015 11:00:17 | 36.42 | 30.42 | 602 | 0.54 | 0.17 | 32.9 |
| 5/2/2015 11:00:18 | 36.75 | 30.75 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:00:19 | 37.07 | 31.07 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:00:20 | 37.40 | 31.40 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:00:21 | 37.73 | 31.73 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:00:20 | 38.06 | 32.06 | 606 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 11:00:21 | 38.39 | 32.39 | 607 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:00:21 | 38.71 | 32.71 | 597 | 0.54 | 0.17 | 32.7 |
| 5/2/2015 11:00:22 | 39.04 | 33.04 | 580 | 0.54 | 0.17 | 31.7 |
| 5/2/2015 11:00:23 | 39.37 | 33.37 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 11:00:24 | 39.70 | 33.70 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 11:00:24 | 40.03 | 34.03 | 573 | 0.54 | 0.17 | 31.3 |
| 5/2/2015 11:00:25 | 40.35 | 34.35 | 570 | 0.54 | 0.17 | 31.2 |
| 5/2/2015 11:00:26 | 40.68 | 34.68 | 579 | 0.54 | 0.17 | 31.7 |
| 5/2/2015 11:00:26 | 41.01 | 35.01 | 579 | 0.54 | 0.17 | 31.7 |
| 5/2/2015 11:00:27 | 41.34 | 35.34 | 585 | 0.54 | 0.17 | 32.0 |
| 5/2/2015 11:00:27 | 41.67 | 35.67 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 11:00:28 | 41.99 | 35.99 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 11:00:29 | 42.32 | 36.32 | 564 | 0.54 | 0.17 | 30.8 |
| 5/2/2015 11:00:29 | 42.65 | 36.65 | 544 | 0.54 | 0.17 | 29.7 |
| 5/2/2015 11:00:30 | 42.98 | 36.98 | 491 | 0.54 | 0.17 | 26.9 |
| 5/2/2015 11:00:31 | 43.31 | 37.31 | 477 | 0.54 | 0.17 | 26.1 |
| 5/2/2015 11:00:32 | 43.64 | 37.64 | 477 | 0.54 | 0.17 | 26.1 |
| 5/2/2015 11:00:32 | 43.96 | 37.96 | 483 | 0.54 | 0.17 | 26.4 |
| 5/2/2015 11:00:33 | 44.29 | 38.29 | 488 | 0.54 | 0.17 | 26.7 |
| 5/2/2015 11:00:34 | 44.62 | 38.62 | 491 | 0.54 | 0.17 | 26.9 |
| 5/2/2015 11:00:34 | 44.95 | 38.95 | 486 | 0.54 | 0.17 | 26.6 |
| 5/2/2015 11:00:36 | 45.28 | 39.28 | 468 | 0.54 | 0.17 | 25.6 |
| 5/2/2015 11:00:36 | 45.60 | 39.60 | 457 | 0.54 | 0.17 | 25.0 |
| 5/2/2015 11:00:37 | 45.93 | 39.93 | 433 | 0.54 | 0.17 | 23.7 |
| 5/2/2015 11:00:38 | 46.26 | 40.26 | 419 | 0.54 | 0.17 | 22.9 |
| 5/2/2015 11:00:39 | 46.59 | 40.59 | 425 | 0.54 | 0.17 | 23.2 |
| 5/2/2015 11:00:40 | 46.92 | 40.92 | 425 | 0.54 | 0.17 | 23.2 |
| 5/2/2015 11:00:41 | 47.24 | 41.24 | 428 | 0.54 | 0.17 | 23.4 |
| 5/2/2015 11:00:41 | 47.57 | 41.57 | 422 | 0.54 | 0.17 | 23.1 |
| 5/2/2015 11:00:42 | 47.90 | 41.90 | 425 | 0.54 | 0.17 | 23.2 |
| 5/2/2015 11:00:43 | 48.23 | 42.23 | 427 | 0.54 | 0.17 | 23.4 |
| 5/2/2015 11:00:44 | 48.56 | 42.56 | 428 | 0.54 | 0.17 | 23.4 |
| 5/2/2015 11:00:45 | 48.88 | 42.88 | 433 | 0.54 | 0.17 | 23.7 |
| 5/2/2015 11:00:45 | 49.21 | 43.21 | 436 | 0.54 | 0.17 | 23.9 |
| 5/2/2015 11:00:56 | 49.54 | 43.54 | 12 | 0.54 | 0.17 | 0.6 |
| 5/2/2015 11:00:57 | 49.87 | 43.87 | 130 | 0.54 | 0.17 | 7.1 |
| 5/2/2015 11:00:58 | 50.20 | 44.20 | 299 | 0.54 | 0.17 | 16.4 |
| 5/2/2015 11:01:02 | 50.53 | 44.53 | 63 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 11:01:03 | 50.85 | 44.85 | 148 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 11:01:04 | 51.18 | 45.18 | 281 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 11:01:05 | 51.51 | 45.51 | 322 | 0.54 | 0.17 | 17.6 |
| 5/2/2015 11:01:06 | 51.84 | 45.84 | 348 | 0.54 | 0.17 | 19.0 |
| 5/2/2015 11:01:06 | 52.17 | 46.17 | 369 | 0.54 | 0.17 | 20.2 |
| 5/2/2015 11:01:07 | 52.49 | 46.49 | 390 | 0.54 | 0.17 | 21.3 |
| 5/2/2015 11:01:08 | 52.82 | 46.82 | 370 | 0.54 | 0.17 | 20.2 |
| 5/2/2015 11:01:09 | 53.15 | 47.15 | 375 | 0.54 | 0.17 | 20.5 |
| 5/2/2015 11:01:10 | 53.48 | 47.48 | 370 | 0.54 | 0.17 | 20.2 |
| 5/2/2015 11:01:12 | 53.81 | 47.81 | 375 | 0.54 | 0.17 | 20.5 |
| 5/2/2015 11:01:13 | 54.13 | 48.13 | 366 | 0.54 | 0.17 | 20.0 |
| 5/2/2015 11:01:14 | 54.46 | 48.46 | 378 | 0.54 | 0.17 | 20.7 |
| 5/2/2015 11:01:15 | 54.79 | 48.79 | 340 | 0.54 | 0.17 | 18.6 |
| 5/2/2015 11:01:17 | 55.12 | 49.12 | 160 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 11:01:20 | 55.45 | 49.45 | 131 | 0.54 | 0.17 | 7.2 |
| 5/2/2015 11:01:22 | 55.77 | 49.77 | 157 | 0.54 | 0.17 | 8.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:01:24 | 56.10 | 50.10 | 183 | 0.54 | 0.17 | 10.0 |
| 5/2/2015 | 11:01:26 | 56.43 | 50.43 | 171 | 0.54 | 0.17 | 9.4 |
| 5/2/2015 | 11:01:29 | 56.76 | 50.76 | 131 | 0.54 | 0.17 | 7.2 |
| 5/2/2015 | 11:01:32 | 57.09 | 51.09 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 11:01:35 | 57.41 | 51.41 | 137 | 0.54 | 0.17 | 7.5 |
| 5/2/2015 | 11:01:38 | 57.74 | 51.74 | 117 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 | 11:01:40 | 58.07 | 52.07 | 127 | 0.54 | 0.17 | 6.9 |
| 5/2/2015 | 11:01:42 | 58.40 | 52.40 | 163 | 0.54 | 0.17 | 8.9 |
| 5/2/2015 | 11:01:45 | 58.73 | 52.73 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 | 11:01:48 | 59.06 | 53.06 | 144 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 | 11:01:50 | 59.38 | 53.38 | 157 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 | 11:01:53 | 59.71 | 53.71 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 | 11:01:56 | 60.04 | 54.04 | 130 | 0.54 | 0.17 | 7.1 |
| 5/2/2015 | 11:01:59 | 60.37 | 54.37 | 151 | 0.54 | 0.17 | 8.3 |
| 5/2/2015 | 11:02:04 | 60.70 | 54.70 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 | 11:02:04 | 60.79 | 54.79 | 104 | 0.54 | 0.17 | 5.7 |

## O8 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 10:58:20

**End Date:**
5/2/2015 11:03:53

**Operator Note:**
'6 5.7 a Auto Complete'

**Northing:**
352,737.80

**Easting:**
229,796.60

**Tide (feet):**
6.00



## Hole: O9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 11:13:34 | 36.42 | 30.32 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 11:13:34 | 36.75 | 30.65 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 11:13:34 | 37.07 | 30.97 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 11:13:35 | 37.40 | 31.30 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 11:13:35 | 37.73 | 31.63 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 11:13:35 | 38.06 | 31.96 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 11:13:36 | 38.39 | 32.29 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 11:13:37 | 38.71 | 32.61 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 11:13:37 | 39.04 | 32.94 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 11:13:37 | 39.37 | 33.27 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 11:13:38 | 39.70 | 33.60 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 11:13:38 | 40.03 | 33.93 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 11:13:38 | 40.35 | 34.25 | 968 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 11:13:39 | 40.68 | 34.58 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:39 | 41.01 | 34.91 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:39 | 41.34 | 35.24 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:40 | 41.67 | 35.57 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:40 | 41.99 | 35.89 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:40 | 42.32 | 36.22 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:41 | 42.65 | 36.55 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:41 | 42.98 | 36.88 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:42 | 43.31 | 37.21 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:42 | 43.64 | 37.54 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:42 | 43.96 | 37.86 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:43 | 44.29 | 38.19 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:43 | 44.62 | 38.52 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:43 | 44.95 | 38.85 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 11:13:44 | 45.28 | 39.18 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:44 | 45.60 | 39.50 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:44 | 45.93 | 39.83 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:45 | 46.26 | 40.16 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:45 | 46.59 | 40.49 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 11:13:45 | 46.92 | 40.82 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:46 | 47.24 | 41.14 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 11:13:46 | 47.57 | 41.47 | 951 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 11:13:47 | 47.90 | 41.80 | 951 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 11:13:47 | 48.23 | 42.13 | 951 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 11:13:48 | 48.56 | 42.46 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:48 | 48.88 | 42.78 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:48 | 49.21 | 43.11 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 11:13:49 | 49.54 | 43.44 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 11:13:49 | 49.87 | 43.77 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 11:13:50 | 50.20 | 44.10 | 873 | 0.54 | 0.17 | 47.8 |
| 5/2/2015 11:14:04 | 50.53 | 44.43 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 11:14:05 | 50.85 | 44.75 | 117 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 11:14:05 | 51.18 | 45.08 | 270 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 11:14:06 | 51.51 | 45.41 | 391 | 0.54 | 0.17 | 21.4 |
| 5/2/2015 11:14:06 | 51.84 | 45.74 | 514 | 0.54 | 0.17 | 28.1 |
| 5/2/2015 11:14:07 | 52.17 | 46.07 | 637 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 11:14:07 | 52.49 | 46.39 | 637 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 11:14:08 | 52.82 | 46.72 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 11:14:08 | 53.15 | 47.05 | 611 | 0.54 | 0.17 | 33.4 |
| 5/2/2015 11:14:09 | 53.48 | 47.38 | 605 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 11:14:10 | 53.81 | 47.71 | 605 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 11:14:10 | 54.13 | 48.03 | 602 | 0.54 | 0.17 | 32.9 |
| 5/2/2015 11:14:11 | 54.46 | 48.36 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 11:14:12 | 54.79 | 48.69 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 11:14:12 | 55.12 | 49.02 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 11:14:13 | 55.45 | 49.35 | 593 | 0.54 | 0.17 | 32.4 |
| 5/2/2015 11:14:14 | 55.77 | 49.67 | 599 | 0.54 | 0.17 | 32.7 |
| 5/2/2015 11:14:14 | 56.10 | 50.00 | 597 | 0.54 | 0.17 | 32.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 11:14:18 | 56.43 | 50.33 | 23 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 | 11:14:20 | 56.76 | 50.66 | 203 | 0.54 | 0.17 | 11.1 |
| 5/2/2015 | 11:14:21 | 57.09 | 50.99 | 225 | 0.54 | 0.17 | 12.3 |
| 5/2/2015 | 11:14:21 | 57.41 | 51.31 | 339 | 0.54 | 0.17 | 18.5 |
| 5/2/2015 | 11:14:22 | 57.74 | 51.64 | 395 | 0.54 | 0.17 | 21.6 |
| 5/2/2015 | 11:14:23 | 58.07 | 51.97 | 421 | 0.54 | 0.17 | 23.0 |
| 5/2/2015 | 11:14:24 | 58.40 | 52.30 | 465 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 | 11:14:27 | 58.73 | 52.63 | 133 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 | 11:14:28 | 59.06 | 52.96 | 171 | 0.54 | 0.17 | 9.3 |
| 5/2/2015 | 11:14:29 | 59.38 | 53.28 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 | 11:14:30 | 59.71 | 53.61 | 332 | 0.54 | 0.17 | 18.2 |
| 5/2/2015 | 11:14:31 | 60.04 | 53.94 | 325 | 0.54 | 0.17 | 17.8 |
| 5/2/2015 | 11:14:34 | 60.37 | 54.27 | 115 | 0.54 | 0.17 | 6.3 |
| 5/2/2015 | 11:14:36 | 60.70 | 54.60 | 238 | 0.54 | 0.17 | 13.0 |
| 5/2/2015 | 11:14:38 | 60.89 | 54.79 | 61 | 0.54 | 0.17 | 3.3 |

## O9 - Summary

**Pattern Number:**
AreaO_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 11:12:01

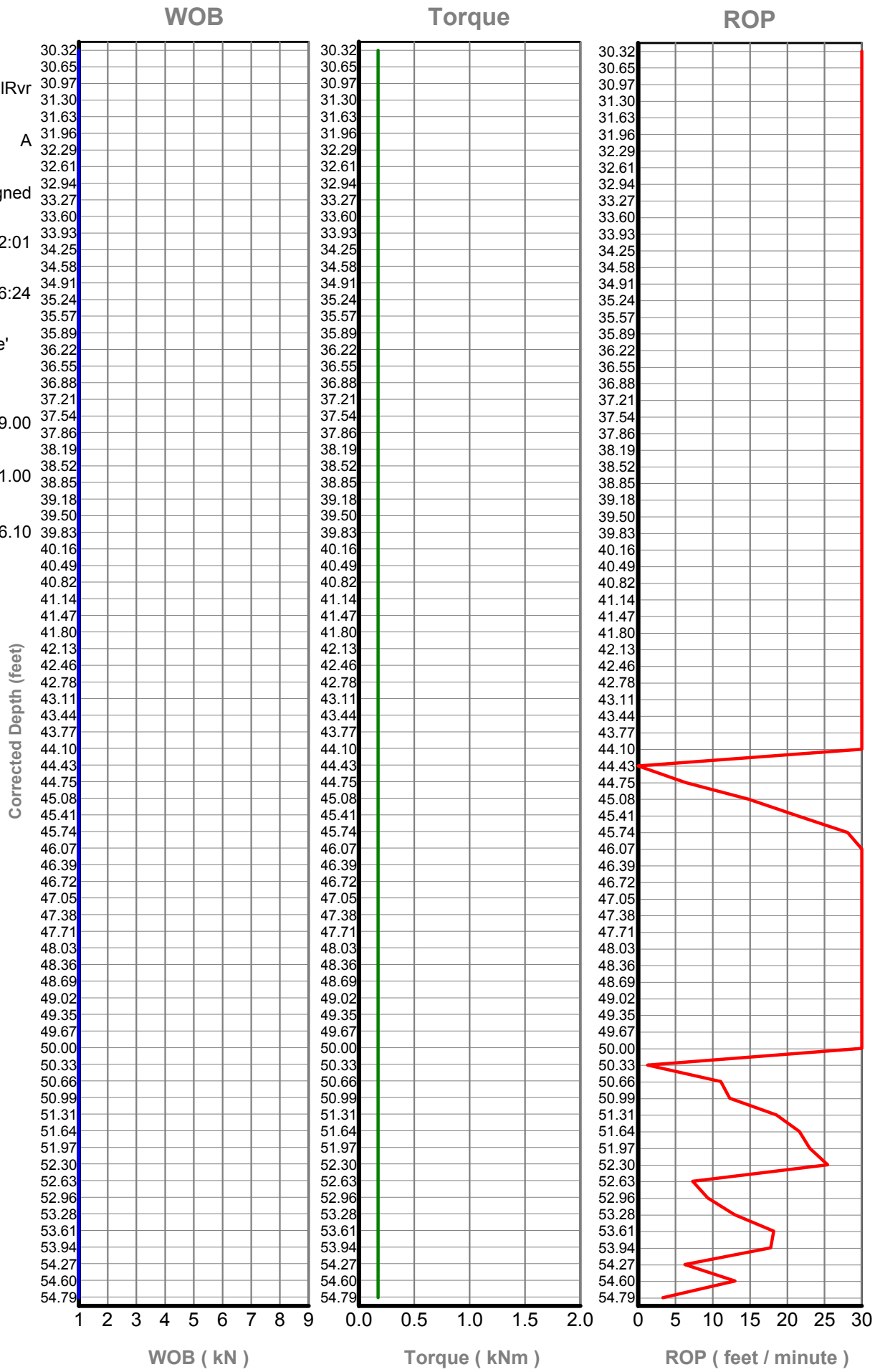
**End Date:**
5/2/2015 11:16:24

**Operator Note:**
'6.1 5.9 a Auto Complete'

**Northing:**
352,779.00

**Easting:**
229,861.00

**Tide (feet):**
6.10



## Hole: P10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:41:39 | 34.12 | 30.22 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/2/2015 14:41:40 | 34.45 | 30.55 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/2/2015 14:41:40 | 34.78 | 30.88 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/2/2015 14:41:40 | 35.11 | 31.21 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/2/2015 14:41:41 | 35.43 | 31.53 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/2/2015 14:41:41 | 35.76 | 31.86 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:41 | 36.09 | 32.19 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:41 | 36.42 | 32.52 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:41:42 | 36.75 | 32.85 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:42 | 37.07 | 33.17 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:42 | 37.40 | 33.50 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 14:41:43 | 37.73 | 33.83 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 14:41:43 | 38.06 | 34.16 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:43 | 38.39 | 34.49 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:43 | 38.71 | 34.81 | 1,162 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 14:41:44 | 39.04 | 35.14 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:44 | 39.37 | 35.47 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:41:44 | 39.70 | 35.80 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:41:45 | 40.03 | 36.13 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:41:45 | 40.35 | 36.45 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:41:46 | 40.68 | 36.78 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:41:46 | 41.01 | 37.11 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:41:46 | 41.34 | 37.44 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/2/2015 14:41:47 | 41.67 | 37.77 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/2/2015 14:41:47 | 41.99 | 38.09 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/2/2015 14:41:47 | 42.32 | 38.42 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:41:48 | 42.65 | 38.75 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:41:48 | 42.98 | 39.08 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 14:41:48 | 43.31 | 39.41 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 14:41:48 | 43.64 | 39.74 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 14:41:49 | 43.96 | 40.06 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 14:41:49 | 44.29 | 40.39 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 14:41:49 | 44.62 | 40.72 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 14:41:50 | 44.95 | 41.05 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 14:41:50 | 45.28 | 41.38 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:59:13 | 45.38 | 41.48 | 47 | 0.54 | 0.17 | 2.6 |
| 5/2/2015 14:41:50 | 45.60 | 41.70 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/2/2015 14:41:51 | 45.93 | 42.03 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/2/2015 14:41:51 | 46.26 | 42.36 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 14:41:51 | 46.59 | 42.69 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 14:41:52 | 46.92 | 43.02 | 1,009 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 14:41:52 | 47.24 | 43.34 | 1,009 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 14:42:03 | 47.57 | 43.67 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:42:04 | 47.90 | 44.00 | 114 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 14:42:06 | 48.23 | 44.33 | 226 | 1.14 | 0.29 | 12.3 |
| 5/2/2015 14:42:16 | 48.56 | 44.66 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 14:42:27 | 48.88 | 44.98 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 14:42:38 | 49.21 | 45.31 | 33 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 14:42:49 | 49.54 | 45.64 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 14:42:56 | 49.77 | 45.87 | 38 | 1.14 | 0.29 | 2.1 |

## P10 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:56:15

**End Date:**
5/2/2015 15:02:23

**Operator Note:**
'3.9 4.1 a Auto Complete'

**Northing:**
349,871.16

**Easting:**
225,300.82

**Tide (feet):**
3.90



## Hole: P100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:59:32 | 34.12 | 30.22 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 9:59:32 | 34.45 | 30.55 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 9:59:32 | 34.78 | 30.88 | 905 | 0.54 | 0.17 | 49.5 |
| 5/3/2015 9:59:33 | 35.11 | 31.21 | 910 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 9:59:33 | 35.43 | 31.53 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:59:34 | 35.76 | 31.86 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:59:34 | 36.09 | 32.19 | 900 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:59:34 | 36.42 | 32.52 | 908 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 9:59:35 | 36.75 | 32.85 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 9:59:35 | 37.07 | 33.17 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 9:59:35 | 37.40 | 33.50 | 908 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 9:59:36 | 37.73 | 33.83 | 908 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 9:59:36 | 38.06 | 34.16 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 9:59:37 | 38.39 | 34.49 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 9:59:37 | 38.71 | 34.81 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:59:37 | 39.04 | 35.14 | 898 | 0.54 | 0.17 | 49.1 |
| 5/3/2015 9:59:38 | 39.37 | 35.47 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 9:59:38 | 39.70 | 35.80 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 9:59:39 | 40.03 | 36.13 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 9:59:39 | 40.35 | 36.45 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 9:59:39 | 40.68 | 36.78 | 888 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 9:59:40 | 41.01 | 37.11 | 897 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 9:59:41 | 41.34 | 37.44 | 897 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 9:59:41 | 41.67 | 37.77 | 900 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:59:41 | 41.99 | 38.09 | 900 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:59:42 | 42.32 | 38.42 | 897 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 9:59:42 | 42.65 | 38.75 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:59:43 | 42.98 | 39.08 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:59:43 | 43.31 | 39.41 | 891 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 9:59:43 | 43.64 | 39.74 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 9:59:44 | 43.96 | 40.06 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 9:59:44 | 44.29 | 40.39 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 9:59:45 | 44.62 | 40.72 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 9:59:45 | 44.95 | 41.05 | 861 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 9:59:45 | 45.28 | 41.38 | 853 | 0.54 | 0.17 | 46.7 |
| 5/3/2015 9:59:46 | 45.60 | 41.70 | 862 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 9:59:46 | 45.93 | 42.03 | 862 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 9:59:46 | 46.26 | 42.36 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:59:47 | 46.59 | 42.69 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 9:59:47 | 46.92 | 43.02 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 9:59:48 | 47.24 | 43.34 | 874 | 0.54 | 0.17 | 47.8 |
| 5/3/2015 9:59:48 | 47.57 | 43.67 | 874 | 0.54 | 0.17 | 47.8 |
| 5/3/2015 9:59:48 | 47.90 | 44.00 | 874 | 0.54 | 0.17 | 47.8 |
| 5/3/2015 9:59:49 | 48.23 | 44.33 | 865 | 0.54 | 0.17 | 47.3 |
| 5/3/2015 9:59:49 | 48.56 | 44.66 | 865 | 0.54 | 0.17 | 47.3 |
| 5/3/2015 9:59:49 | 48.65 | 44.75 | 865 | 0.54 | 0.17 | 47.3 |

## P100 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:58:11

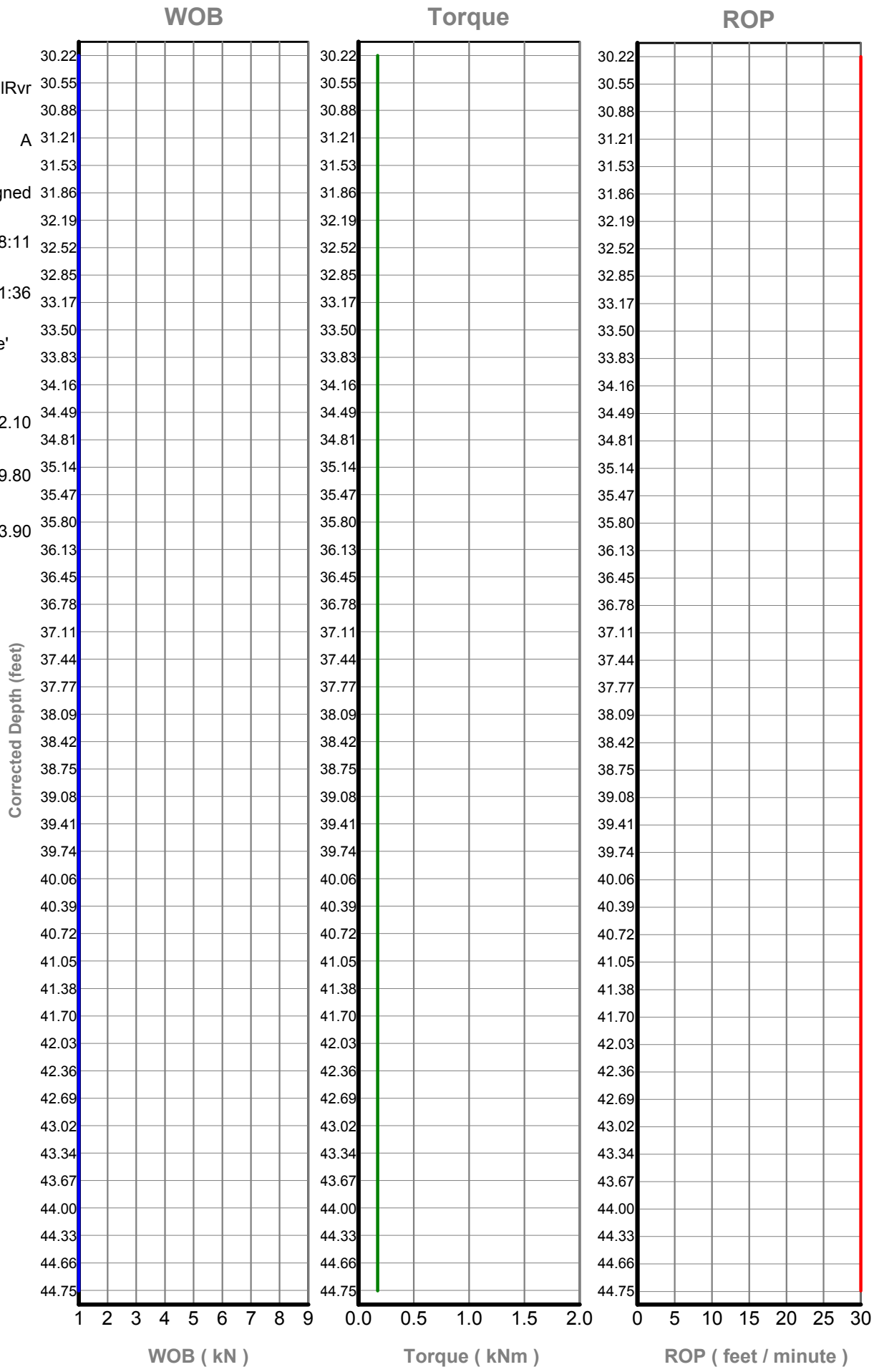
**End Date:**
5/3/2015 10:01:36

**Operator Note:**
'3.9 3.4 a Auto Complete'

**Northing:**
349,132.10

**Easting:**
224,699.80

**Tide (feet):**
3.90



## Hole: P100 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:03:04 | 34.12 | 30.22 | 921 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:04 | 34.45 | 30.55 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:05 | 34.78 | 30.88 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:05 | 35.11 | 31.21 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:05 | 35.43 | 31.53 | 917 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 10:03:06 | 35.76 | 31.86 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 10:03:06 | 36.09 | 32.19 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 10:03:06 | 36.42 | 32.52 | 929 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 10:03:07 | 36.75 | 32.85 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:07 | 37.07 | 33.17 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:03:08 | 37.40 | 33.50 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:03:08 | 37.73 | 33.83 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:08 | 38.06 | 34.16 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 10:03:09 | 38.39 | 34.49 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 10:03:10 | 38.71 | 34.81 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 10:03:10 | 39.04 | 35.14 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:10 | 39.37 | 35.47 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:11 | 39.70 | 35.80 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 10:03:11 | 40.03 | 36.13 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 10:03:11 | 40.35 | 36.45 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 10:03:12 | 40.68 | 36.78 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:12 | 41.01 | 37.11 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:13 | 41.34 | 37.44 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:13 | 41.67 | 37.77 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:13 | 41.99 | 38.09 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:14 | 42.32 | 38.42 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:14 | 42.65 | 38.75 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:14 | 42.98 | 39.08 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:03:15 | 43.31 | 39.41 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 10:03:15 | 43.64 | 39.74 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:16 | 43.96 | 40.06 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:16 | 44.29 | 40.39 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 10:03:16 | 44.62 | 40.72 | 905 | 0.54 | 0.17 | 49.5 |
| 5/3/2015 10:03:17 | 44.95 | 41.05 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 10:03:17 | 45.28 | 41.38 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 10:03:17 | 45.60 | 41.70 | 908 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 10:03:18 | 45.93 | 42.03 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 10:03:18 | 46.26 | 42.36 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 10:03:19 | 46.59 | 42.69 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 10:03:19 | 46.92 | 43.02 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:19 | 47.24 | 43.34 | 924 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 10:03:20 | 47.57 | 43.67 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:20 | 47.90 | 44.00 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 10:03:21 | 48.23 | 44.33 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 10:03:21 | 48.56 | 44.66 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 10:03:26 | 48.88 | 44.98 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 10:03:33 | 49.21 | 45.31 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 10:03:39 | 49.54 | 45.64 | 52 | 0.54 | 0.17 | 2.8 |
| 5/3/2015 10:03:45 | 49.87 | 45.97 | 61 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 10:03:56 | 50.20 | 46.30 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 10:04:05 | 50.53 | 46.63 | 45 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 10:04:11 | 50.85 | 46.95 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 10:04:13 | 51.18 | 47.28 | 133 | 0.54 | 0.17 | 7.3 |
| 5/3/2015 10:04:24 | 51.51 | 47.61 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 10:04:39 | 51.84 | 47.94 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 10:04:56 | 52.17 | 48.27 | 17 | 0.54 | 0.17 | 0.9 |
| 5/3/2015 10:05:15 | 52.49 | 48.59 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 10:05:32 | 52.82 | 48.92 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 10:05:36 | 52.90 | 49.00 | 17 | 0.54 | 0.17 | 0.9 |

## P100 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 10:01:42

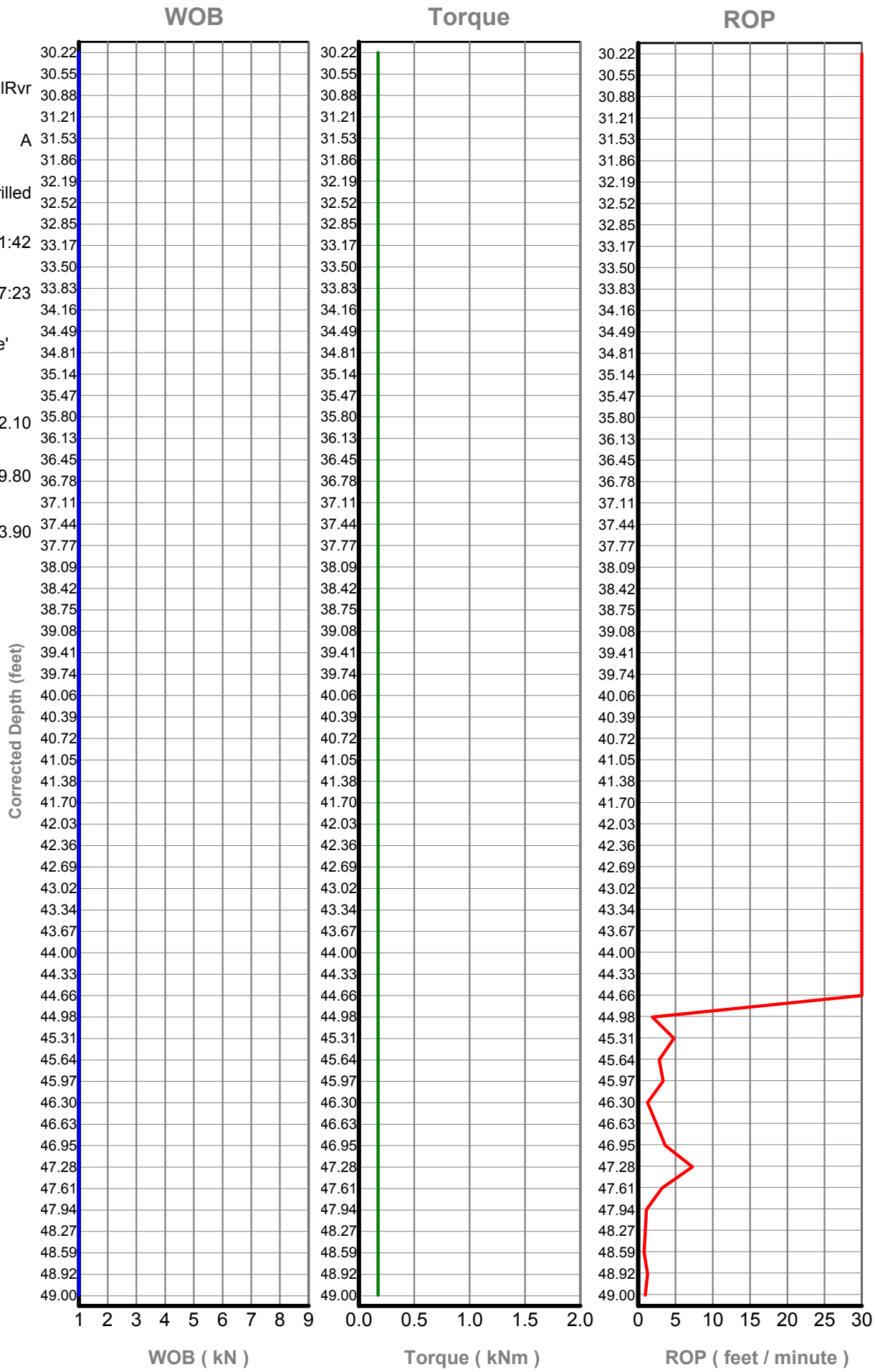
**End Date:**
5/3/2015 10:07:23

**Operator Note:**
'3.9 3.8 a Auto Complete'

**Northing:**
349,132.10

**Easting:**
224,699.80

**Tide (feet):**
3.90



## Hole: P1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:16:54 | 32.81 | 30.01 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:16:55 | 33.14 | 30.34 | 901 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:16:55 | 33.46 | 30.66 | 901 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:16:55 | 33.79 | 30.99 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:16:56 | 34.12 | 31.32 | 892 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 9:16:56 | 34.45 | 31.65 | 897 | 0.54 | 0.17 | 49.1 |
| 5/3/2015 9:16:57 | 34.78 | 31.98 | 903 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 9:16:57 | 35.11 | 32.31 | 903 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 9:16:57 | 35.43 | 32.63 | 903 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 9:16:58 | 35.76 | 32.96 | 897 | 0.54 | 0.17 | 49.1 |
| 5/3/2015 9:16:58 | 36.09 | 33.29 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:16:59 | 36.42 | 33.62 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:16:59 | 36.75 | 33.95 | 894 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 9:16:59 | 37.07 | 34.27 | 889 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 9:17:00 | 37.40 | 34.60 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:00 | 37.73 | 34.93 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:00 | 38.06 | 35.26 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:01 | 38.39 | 35.59 | 894 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 9:17:01 | 38.71 | 35.91 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:17:02 | 39.04 | 36.24 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:17:02 | 39.37 | 36.57 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:17:02 | 39.70 | 36.90 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:17:03 | 40.03 | 37.23 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 9:17:03 | 40.35 | 37.55 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:17:04 | 40.68 | 37.88 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:17:04 | 41.01 | 38.21 | 891 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 9:17:05 | 41.34 | 38.54 | 896 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 9:17:05 | 41.67 | 38.87 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:06 | 41.99 | 39.19 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:06 | 42.32 | 39.52 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:17:06 | 42.65 | 39.85 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 9:17:07 | 42.98 | 40.18 | 886 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 9:17:07 | 43.31 | 40.51 | 886 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 9:17:08 | 43.64 | 40.84 | 886 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 9:17:08 | 43.96 | 41.16 | 882 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:08 | 44.29 | 41.49 | 882 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 9:17:09 | 44.62 | 41.82 | 900 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:17:09 | 44.95 | 42.15 | 900 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 9:17:09 | 45.28 | 42.48 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 9:17:10 | 45.60 | 42.80 | 886 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 9:17:10 | 45.93 | 43.13 | 892 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 9:17:11 | 46.26 | 43.46 | 892 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 9:17:24 | 46.59 | 43.79 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 9:17:27 | 46.92 | 44.12 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 9:17:28 | 47.24 | 44.44 | 197 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 9:17:30 | 47.57 | 44.77 | 341 | 0.54 | 0.17 | 18.6 |
| 5/3/2015 9:17:32 | 47.90 | 45.10 | 194 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 9:17:33 | 48.23 | 45.43 | 251 | 0.54 | 0.17 | 13.7 |
| 5/3/2015 9:17:39 | 48.56 | 45.76 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 9:17:42 | 48.88 | 46.08 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 9:17:43 | 49.21 | 46.41 | 63 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 9:17:45 | 49.54 | 46.74 | 281 | 0.54 | 0.17 | 15.4 |
| 5/3/2015 9:17:48 | 49.87 | 47.07 | 34 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 9:17:49 | 50.20 | 47.40 | 155 | 0.54 | 0.17 | 8.5 |
| 5/3/2015 9:17:54 | 50.53 | 47.73 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 9:17:58 | 50.85 | 48.05 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 9:18:01 | 51.18 | 48.38 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 9:18:03 | 51.51 | 48.71 | 175 | 0.54 | 0.17 | 9.6 |
| 5/3/2015 9:18:05 | 51.84 | 49.04 | 201 | 0.54 | 0.17 | 11.0 |
| 5/3/2015 9:18:14 | 52.17 | 49.37 | 38 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 9:18:19 | 52.49 | 49.69 | 85 | 0.54 | 0.17 | 4.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:18:24 | 52.82 | 50.02 | 61 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 | 9:18:29 | 53.15 | 50.35 | 82 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 | 9:18:32 | 53.48 | 50.68 | 105 | 0.54 | 0.17 | 5.8 |
| 5/3/2015 | 9:18:43 | 53.81 | 51.01 | 63 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 | 9:18:47 | 54.13 | 51.33 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 9:18:51 | 54.46 | 51.66 | 116 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 | 9:18:55 | 54.79 | 51.99 | 96 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 | 9:19:00 | 55.12 | 52.32 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 9:19:04 | 55.45 | 52.65 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 9:19:08 | 55.77 | 52.97 | 96 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 | 9:19:12 | 56.10 | 53.30 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 9:19:16 | 56.43 | 53.63 | 96 | 0.54 | 0.17 | 5.3 |
| 5/3/2015 | 9:19:19 | 56.76 | 53.96 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 | 9:19:23 | 57.09 | 54.29 | 96 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 | 9:19:27 | 57.41 | 54.61 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 9:19:28 | 57.48 | 54.68 | 85 | 0.54 | 0.17 | 4.7 |

## P1000 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:15:11

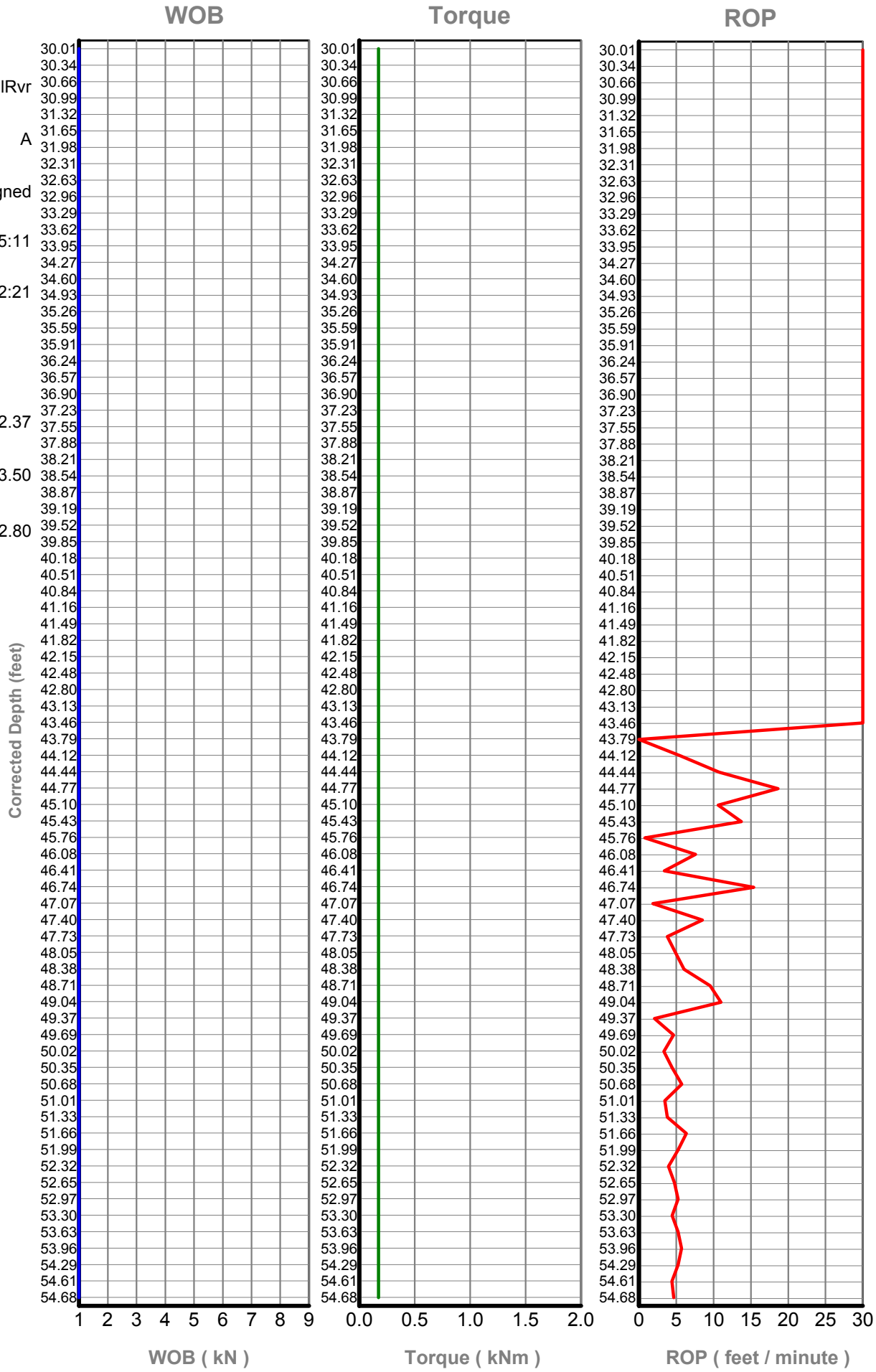
**End Date:**
5/3/2015 9:22:21

**Operator Note:**
'2.8 2.4 A Auto Complete'

**Northing:**
349,562.37

**Easting:**
224,963.50

**Tide (feet):**
2.80



## Hole: P1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:13:36 | 32.81 | 30.21 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/3/2015 9:13:37 | 33.14 | 30.54 | 1,185 | 0.31 | 0.38 | 64.8 |
| 5/3/2015 9:13:37 | 33.46 | 30.86 | 1,206 | 0.29 | 0.39 | 66.0 |
| 5/3/2015 9:13:37 | 33.79 | 31.19 | 1,206 | 0.29 | 0.39 | 66.0 |
| 5/3/2015 9:13:37 | 34.12 | 31.52 | 1,194 | 0.31 | 0.39 | 65.3 |
| 5/3/2015 9:13:38 | 34.45 | 31.85 | 1,224 | 0.24 | 0.38 | 67.0 |
| 5/3/2015 9:13:39 | 34.78 | 32.18 | 1,224 | 0.24 | 0.38 | 67.0 |
| 5/3/2015 9:13:39 | 35.11 | 32.51 | 1,209 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 9:13:39 | 35.43 | 32.83 | 1,209 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 9:13:39 | 35.76 | 33.16 | 1,209 | 0.31 | 0.38 | 66.1 |
| 5/3/2015 9:13:40 | 36.09 | 33.49 | 1,209 | 0.31 | 0.38 | 66.1 |
| 5/3/2015 9:13:40 | 36.42 | 33.82 | 1,207 | 0.32 | 0.38 | 66.0 |
| 5/3/2015 9:13:40 | 36.75 | 34.15 | 1,213 | 0.32 | 0.38 | 66.3 |
| 5/3/2015 9:13:41 | 37.07 | 34.47 | 1,213 | 0.32 | 0.38 | 66.3 |
| 5/3/2015 9:13:41 | 37.40 | 34.80 | 1,207 | 0.33 | 0.38 | 66.0 |
| 5/3/2015 9:13:41 | 37.73 | 35.13 | 1,207 | 0.33 | 0.38 | 66.0 |
| 5/3/2015 9:13:41 | 38.06 | 35.46 | 1,161 | 0.31 | 0.38 | 63.5 |
| 5/3/2015 9:13:42 | 38.39 | 35.79 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 9:13:42 | 38.71 | 36.11 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 9:13:42 | 39.04 | 36.44 | 1,201 | 0.34 | 0.39 | 65.7 |
| 5/3/2015 9:13:43 | 39.37 | 36.77 | 1,201 | 0.34 | 0.39 | 65.7 |
| 5/3/2015 9:13:43 | 39.70 | 37.10 | 1,191 | 0.33 | 0.38 | 65.1 |
| 5/3/2015 9:13:43 | 40.03 | 37.43 | 1,191 | 0.33 | 0.38 | 65.1 |
| 5/3/2015 9:13:43 | 40.35 | 37.75 | 1,167 | 0.34 | 0.39 | 63.8 |
| 5/3/2015 9:13:44 | 40.68 | 38.08 | 1,166 | 0.33 | 0.38 | 63.7 |
| 5/3/2015 9:13:44 | 41.01 | 38.41 | 1,166 | 0.33 | 0.38 | 63.7 |
| 5/3/2015 9:13:44 | 41.34 | 38.74 | 1,177 | 0.32 | 0.39 | 64.4 |
| 5/3/2015 9:13:45 | 41.67 | 39.07 | 1,177 | 0.32 | 0.39 | 64.4 |
| 5/3/2015 9:13:45 | 41.99 | 39.39 | 1,177 | 0.33 | 0.38 | 64.4 |
| 5/3/2015 9:13:45 | 42.32 | 39.72 | 1,177 | 0.33 | 0.38 | 64.4 |
| 5/3/2015 9:13:45 | 42.65 | 40.05 | 1,168 | 0.32 | 0.38 | 63.8 |
| 5/3/2015 9:13:46 | 42.98 | 40.38 | 1,192 | 0.32 | 0.39 | 65.2 |
| 5/3/2015 9:13:46 | 43.31 | 40.71 | 1,192 | 0.32 | 0.39 | 65.2 |
| 5/3/2015 9:13:46 | 43.64 | 41.04 | 1,205 | 0.32 | 0.39 | 65.9 |
| 5/3/2015 9:13:47 | 43.96 | 41.36 | 1,205 | 0.32 | 0.39 | 65.9 |
| 5/3/2015 9:13:47 | 44.29 | 41.69 | 1,208 | 0.32 | 0.38 | 66.1 |
| 5/3/2015 9:13:47 | 44.62 | 42.02 | 1,208 | 0.32 | 0.38 | 66.1 |
| 5/3/2015 9:13:47 | 44.95 | 42.35 | 1,221 | 0.31 | 0.39 | 66.8 |
| 5/3/2015 9:13:48 | 45.28 | 42.68 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 9:13:49 | 45.60 | 43.00 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 9:13:48 | 45.93 | 43.33 | 1,202 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 9:13:49 | 46.26 | 43.66 | 1,202 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 9:13:49 | 46.59 | 43.99 | 1,200 | 0.31 | 0.40 | 65.6 |
| 5/3/2015 9:13:56 | 46.92 | 44.32 | 0 | 2.29 | 0.43 | 0.0 |
| 5/3/2015 9:14:03 | 47.24 | 44.64 | 0 | 5.40 | 0.47 | 0.0 |
| 5/3/2015 9:14:10 | 47.57 | 44.97 | 32 | 2.84 | 0.42 | 1.8 |
| 5/3/2015 9:14:10 | 47.90 | 45.30 | 143 | 2.96 | 0.45 | 7.8 |
| 5/3/2015 9:14:11 | 48.23 | 45.63 | 260 | 5.49 | 0.47 | 14.2 |
| 5/3/2015 9:14:30 | 48.56 | 45.96 | 21 | 5.78 | 0.45 | 1.1 |
| 5/3/2015 9:14:31 | 48.88 | 46.28 | 89 | 4.19 | 0.45 | 4.9 |
| 5/3/2015 9:14:38 | 49.21 | 46.61 | 35 | 6.08 | 0.47 | 1.9 |
| 5/3/2015 9:14:44 | 49.54 | 46.94 | 12 | 3.00 | 0.45 | 0.7 |
| 5/3/2015 9:14:47 | 49.87 | 47.27 | 73 | 2.83 | 0.45 | 4.0 |
| 5/3/2015 9:14:57 | 50.20 | 47.60 | 93 | 3.55 | 0.47 | 5.1 |
| 5/3/2015 9:15:04 | 50.53 | 47.93 | 43 | 4.58 | 0.48 | 2.4 |
| 5/3/2015 9:15:10 | 50.85 | 48.25 | 43 | 3.09 | 0.48 | 2.4 |
| 5/3/2015 9:15:17 | 51.18 | 48.58 | 73 | 3.29 | 0.46 | 4.0 |
| 5/3/2015 9:15:18 | 51.51 | 48.91 | 152 | 3.26 | 0.48 | 8.3 |
| 5/3/2015 9:15:24 | 51.84 | 49.24 | 31 | 3.32 | 0.46 | 1.7 |
| 5/3/2015 9:15:26 | 52.17 | 49.57 | 137 | 3.54 | 0.48 | 7.5 |
| 5/3/2015 9:15:29 | 52.49 | 49.89 | 137 | 3.64 | 0.47 | 7.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:15:30 | 52.82 | 50.22 | 154 | 3.94 | 0.46 | 8.4 |
| 5/3/2015 | 9:15:33 | 53.15 | 50.55 | 162 | 4.12 | 0.46 | 8.8 |
| 5/3/2015 | 9:15:36 | 53.48 | 50.88 | 150 | 4.21 | 0.47 | 8.2 |
| 5/3/2015 | 9:15:38 | 53.81 | 51.21 | 120 | 3.27 | 0.46 | 6.6 |
| 5/3/2015 | 9:15:41 | 54.13 | 51.53 | 122 | 4.39 | 0.47 | 6.7 |
| 5/3/2015 | 9:15:44 | 54.46 | 51.86 | 136 | 3.57 | 0.47 | 7.4 |
| 5/3/2015 | 9:15:46 | 54.79 | 52.19 | 157 | 4.03 | 0.47 | 8.6 |
| 5/3/2015 | 9:15:49 | 55.12 | 52.52 | 121 | 3.52 | 0.47 | 6.6 |
| 5/3/2015 | 9:15:52 | 55.45 | 52.85 | 107 | 2.95 | 0.47 | 5.9 |
| 5/3/2015 | 9:15:56 | 55.77 | 53.17 | 90 | 3.24 | 0.47 | 4.9 |
| 5/3/2015 | 9:15:59 | 56.10 | 53.50 | 126 | 3.45 | 0.48 | 6.9 |
| 5/3/2015 | 9:16:02 | 56.43 | 53.83 | 134 | 3.17 | 0.47 | 7.4 |
| 5/3/2015 | 9:16:06 | 56.76 | 54.16 | 100 | 2.99 | 0.47 | 5.5 |
| 5/3/2015 | 9:16:32 | 57.09 | 54.49 | 36 | 2.41 | 0.43 | 1.9 |
| 5/3/2015 | 9:16:35 | 57.41 | 54.81 | 127 | 3.61 | 0.48 | 6.9 |

## P1001 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:11:49

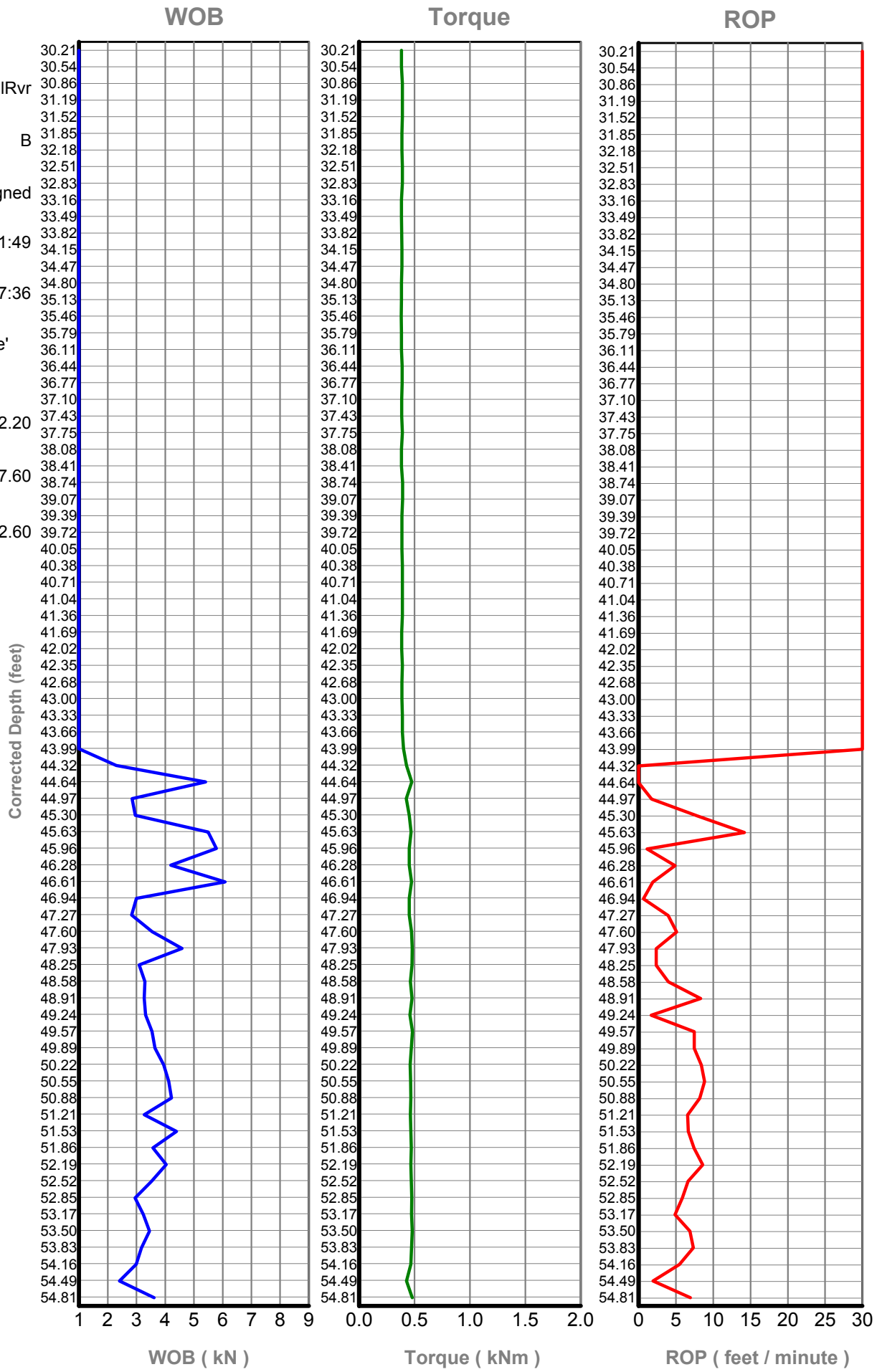
**End Date:**
5/3/2015 9:17:36

**Operator Note:**
'2.6 2.4 b Auto Complete'

**Northing:**
349,602.20

**Easting:**
225,027.60

**Tide (feet):**
2.60



## Hole: P1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:13:36 | 32.81 | 30.21 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 9:13:36 | 33.14 | 30.54 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 9:13:37 | 33.46 | 30.86 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 9:13:37 | 33.79 | 31.19 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 9:13:37 | 34.12 | 31.52 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:38 | 34.45 | 31.85 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:38 | 34.78 | 32.18 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 9:13:38 | 35.11 | 32.51 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:39 | 35.43 | 32.83 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:39 | 35.76 | 33.16 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:39 | 36.09 | 33.49 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:40 | 36.42 | 33.82 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:40 | 36.75 | 34.15 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 9:13:40 | 37.07 | 34.47 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 9:13:41 | 37.40 | 34.80 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 9:13:41 | 37.73 | 35.13 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 9:13:41 | 38.06 | 35.46 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 9:13:42 | 38.39 | 35.79 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 9:13:42 | 38.71 | 36.11 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:42 | 39.04 | 36.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:43 | 39.37 | 36.77 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:43 | 39.70 | 37.10 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:13:43 | 40.03 | 37.43 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 9:13:44 | 40.35 | 37.75 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 9:13:44 | 40.68 | 38.08 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:13:44 | 41.01 | 38.41 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:45 | 41.34 | 38.74 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:45 | 41.67 | 39.07 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:45 | 41.99 | 39.39 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:46 | 42.32 | 39.72 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:46 | 42.65 | 40.05 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 9:13:47 | 42.98 | 40.38 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:13:47 | 43.31 | 40.71 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:13:47 | 43.64 | 41.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:48 | 43.96 | 41.36 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 9:13:48 | 44.29 | 41.69 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 9:13:48 | 44.62 | 42.02 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:13:49 | 44.95 | 42.35 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:13:49 | 45.28 | 42.68 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:13:49 | 45.60 | 43.00 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 9:13:50 | 45.93 | 43.33 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 9:13:50 | 46.26 | 43.66 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 9:13:51 | 46.59 | 43.99 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:14:27 | 46.92 | 44.32 | 71 | 1.14 | 0.29 | 3.9 |
| 5/3/2015 9:14:28 | 47.24 | 44.64 | 194 | 1.14 | 0.29 | 10.6 |
| 5/3/2015 9:14:28 | 47.57 | 44.97 | 309 | 1.14 | 0.29 | 16.9 |
| 5/3/2015 9:14:29 | 47.90 | 45.30 | 423 | 1.14 | 0.29 | 23.1 |
| 5/3/2015 9:14:30 | 48.23 | 45.63 | 570 | 1.14 | 0.29 | 31.2 |
| 5/3/2015 9:16:35 | 48.56 | 45.96 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 9:17:10 | 48.88 | 46.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 9:17:10 | 49.21 | 46.61 | 43 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 9:17:18 | 49.54 | 46.94 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 9:17:20 | 49.87 | 47.27 | 107 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 9:17:22 | 50.20 | 47.60 | 159 | 1.14 | 0.29 | 8.7 |
| 5/3/2015 9:17:23 | 50.53 | 47.93 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 9:17:25 | 50.85 | 48.25 | 180 | 1.14 | 0.29 | 9.8 |
| 5/3/2015 9:17:26 | 51.18 | 48.58 | 189 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 9:17:40 | 51.51 | 48.91 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 9:17:41 | 51.84 | 49.24 | 88 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 9:17:42 | 52.17 | 49.57 | 273 | 1.14 | 0.29 | 14.9 |
| 5/3/2015 9:17:43 | 52.49 | 49.89 | 373 | 1.14 | 0.29 | 20.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:17:43 | 52.82 | 50.22 | 445 | 1.14 | 0.29 | 24.3 |
| 5/3/2015 | 9:17:44 | 53.15 | 50.55 | 518 | 1.14 | 0.29 | 28.4 |
| 5/3/2015 | 9:17:45 | 53.48 | 50.88 | 528 | 1.14 | 0.29 | 28.8 |
| 5/3/2015 | 9:17:45 | 53.81 | 51.21 | 534 | 1.14 | 0.29 | 29.2 |
| 5/3/2015 | 9:17:56 | 54.13 | 51.53 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 9:17:59 | 54.46 | 51.86 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 | 9:18:01 | 54.79 | 52.19 | 119 | 1.14 | 0.29 | 6.5 |
| 5/3/2015 | 9:18:07 | 55.12 | 52.52 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 9:18:12 | 55.45 | 52.85 | 60 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 | 9:18:19 | 55.77 | 53.17 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 | 9:18:22 | 55.93 | 53.33 | 47 | 1.14 | 0.29 | 2.6 |

## P1002 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:11:54

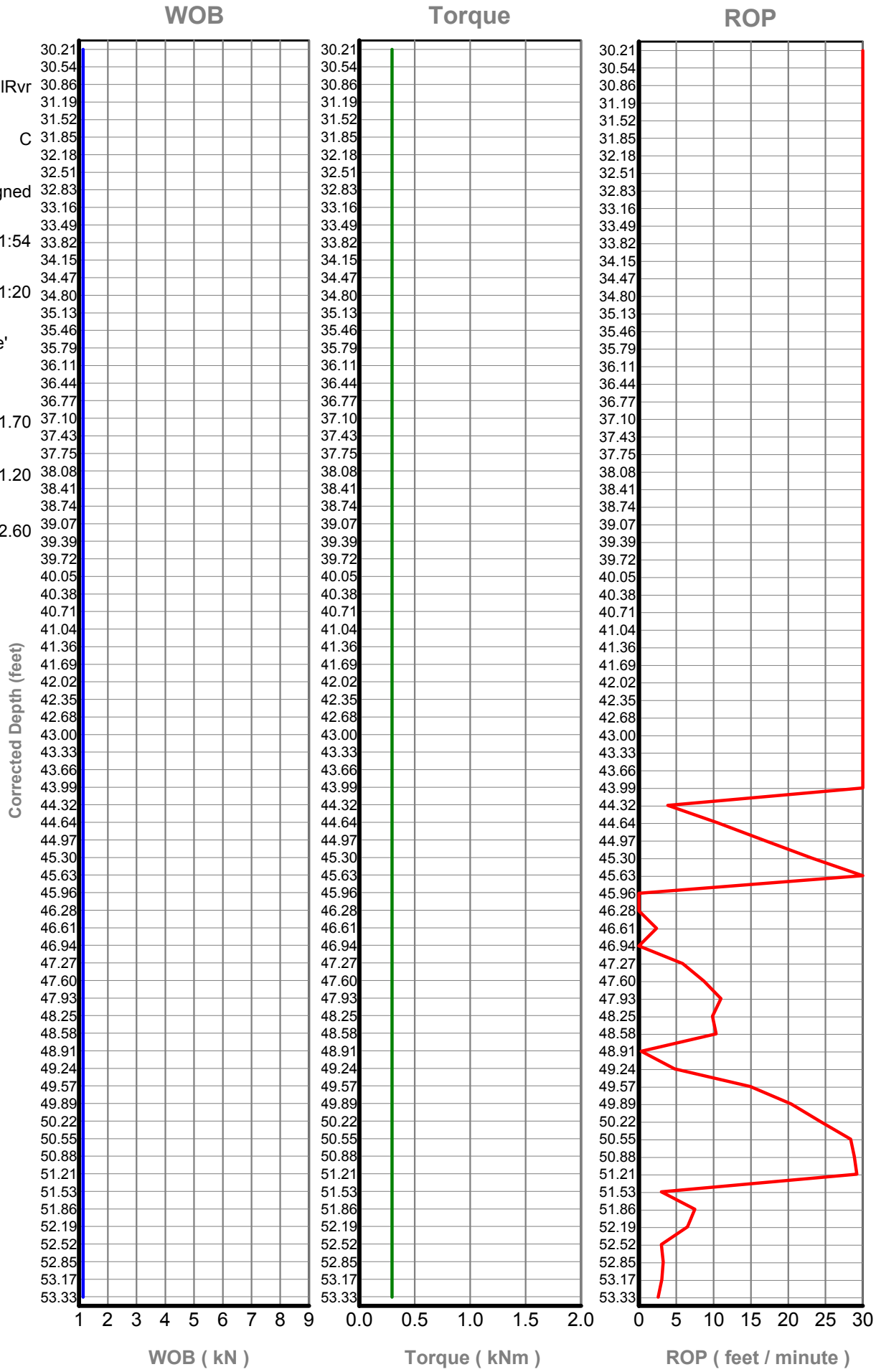
**End Date:**
5/3/2015 9:21:20

**Operator Note:**
'2.6 2.4 c Auto Complete'

**Northing:**
349,641.70

**Easting:**
225,091.20

**Tide (feet):**
2.60



## Hole: P1003 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 8:54:35 | 32.48 | 30.28 | 849 | 0.54 | 0.17 | 46.5 |
| 5/3/2015 8:54:35 | 32.81 | 30.61 | 853 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:36 | 33.14 | 30.94 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:37 | 33.46 | 31.26 | 847 | 0.54 | 0.17 | 46.3 |
| 5/3/2015 8:54:37 | 33.79 | 31.59 | 847 | 0.54 | 0.17 | 46.3 |
| 5/3/2015 8:54:37 | 34.12 | 31.92 | 857 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 8:54:38 | 34.45 | 32.25 | 855 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 8:54:38 | 34.78 | 32.58 | 855 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 8:54:39 | 35.11 | 32.91 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:39 | 35.43 | 33.23 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:39 | 35.76 | 33.56 | 855 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 8:54:40 | 36.09 | 33.89 | 855 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 8:54:40 | 36.42 | 34.22 | 847 | 0.54 | 0.17 | 46.3 |
| 5/3/2015 8:54:41 | 36.75 | 34.55 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:41 | 37.07 | 34.87 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:41 | 37.40 | 35.20 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:42 | 37.73 | 35.53 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:42 | 38.06 | 35.86 | 846 | 0.54 | 0.17 | 46.3 |
| 5/3/2015 8:54:43 | 38.39 | 36.19 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:43 | 38.71 | 36.51 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:43 | 39.04 | 36.84 | 842 | 0.54 | 0.17 | 46.1 |
| 5/3/2015 8:54:44 | 39.37 | 37.17 | 845 | 0.54 | 0.17 | 46.2 |
| 5/3/2015 8:54:44 | 39.70 | 37.50 | 847 | 0.54 | 0.17 | 46.3 |
| 5/3/2015 8:54:45 | 40.03 | 37.83 | 856 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 8:54:45 | 40.35 | 38.15 | 853 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:46 | 40.68 | 38.48 | 853 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:46 | 41.01 | 38.81 | 860 | 0.54 | 0.17 | 47.0 |
| 5/3/2015 8:54:46 | 41.34 | 39.14 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 8:54:47 | 41.67 | 39.47 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 8:54:47 | 41.99 | 39.79 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:48 | 42.32 | 40.12 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:48 | 42.65 | 40.45 | 841 | 0.54 | 0.17 | 46.0 |
| 5/3/2015 8:54:49 | 42.98 | 40.78 | 843 | 0.54 | 0.17 | 46.1 |
| 5/3/2015 8:54:49 | 43.31 | 41.11 | 843 | 0.54 | 0.17 | 46.1 |
| 5/3/2015 8:54:50 | 43.64 | 41.44 | 840 | 0.54 | 0.17 | 45.9 |
| 5/3/2015 8:54:50 | 43.96 | 41.76 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:51 | 44.29 | 42.09 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:51 | 44.62 | 42.42 | 837 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:51 | 44.95 | 42.75 | 823 | 0.54 | 0.17 | 45.0 |
| 5/3/2015 8:54:52 | 45.28 | 43.08 | 823 | 0.54 | 0.17 | 45.0 |
| 5/3/2015 8:54:52 | 45.60 | 43.40 | 826 | 0.54 | 0.17 | 45.2 |
| 5/3/2015 8:54:53 | 45.93 | 43.73 | 826 | 0.54 | 0.17 | 45.2 |
| 5/3/2015 8:54:53 | 46.26 | 44.06 | 826 | 0.54 | 0.17 | 45.2 |
| 5/3/2015 8:54:53 | 46.59 | 44.39 | 829 | 0.54 | 0.17 | 45.3 |
| 5/3/2015 8:54:54 | 46.92 | 44.72 | 835 | 0.54 | 0.17 | 45.7 |
| 5/3/2015 8:54:54 | 47.24 | 45.04 | 841 | 0.54 | 0.17 | 46.0 |
| 5/3/2015 8:54:55 | 47.57 | 45.37 | 837 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 8:54:55 | 47.90 | 45.70 | 823 | 0.54 | 0.17 | 45.0 |
| 5/3/2015 8:55:15 | 48.23 | 46.03 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 8:55:16 | 48.56 | 46.36 | 189 | 0.54 | 0.17 | 10.3 |
| 5/3/2015 8:55:17 | 48.88 | 46.68 | 269 | 0.54 | 0.17 | 14.7 |
| 5/3/2015 8:55:18 | 49.21 | 47.01 | 331 | 0.54 | 0.17 | 18.1 |
| 5/3/2015 8:55:19 | 49.54 | 47.34 | 352 | 0.54 | 0.17 | 19.3 |
| 5/3/2015 8:55:20 | 49.87 | 47.67 | 378 | 0.54 | 0.17 | 20.7 |
| 5/3/2015 8:55:21 | 50.20 | 48.00 | 325 | 0.54 | 0.17 | 17.8 |
| 5/3/2015 8:55:24 | 50.53 | 48.33 | 128 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 8:55:29 | 50.85 | 48.65 | 99 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 8:55:37 | 51.18 | 48.98 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 8:55:42 | 51.51 | 49.31 | 95 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 8:55:46 | 51.84 | 49.64 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 8:55:53 | 52.17 | 49.97 | 52 | 0.54 | 0.17 | 2.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 8:56:00 | 52.49 | 50.29 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 8:56:05 | 52.82 | 50.62 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 8:56:12 | 53.15 | 50.95 | 54 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 8:56:18 | 53.48 | 51.28 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 8:56:25 | 53.81 | 51.61 | 52 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 8:56:30 | 54.13 | 51.93 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 | 8:56:36 | 54.46 | 52.26 | 46 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 | 8:56:41 | 54.79 | 52.59 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 8:56:46 | 55.12 | 52.92 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 8:56:50 | 55.45 | 53.25 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 8:56:55 | 55.77 | 53.57 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 8:56:59 | 56.10 | 53.90 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 8:57:06 | 56.43 | 54.23 | 47 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 | 8:57:15 | 56.74 | 54.54 | 37 | 0.54 | 0.17 | 2.0 |

## P1003 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 8:52:55

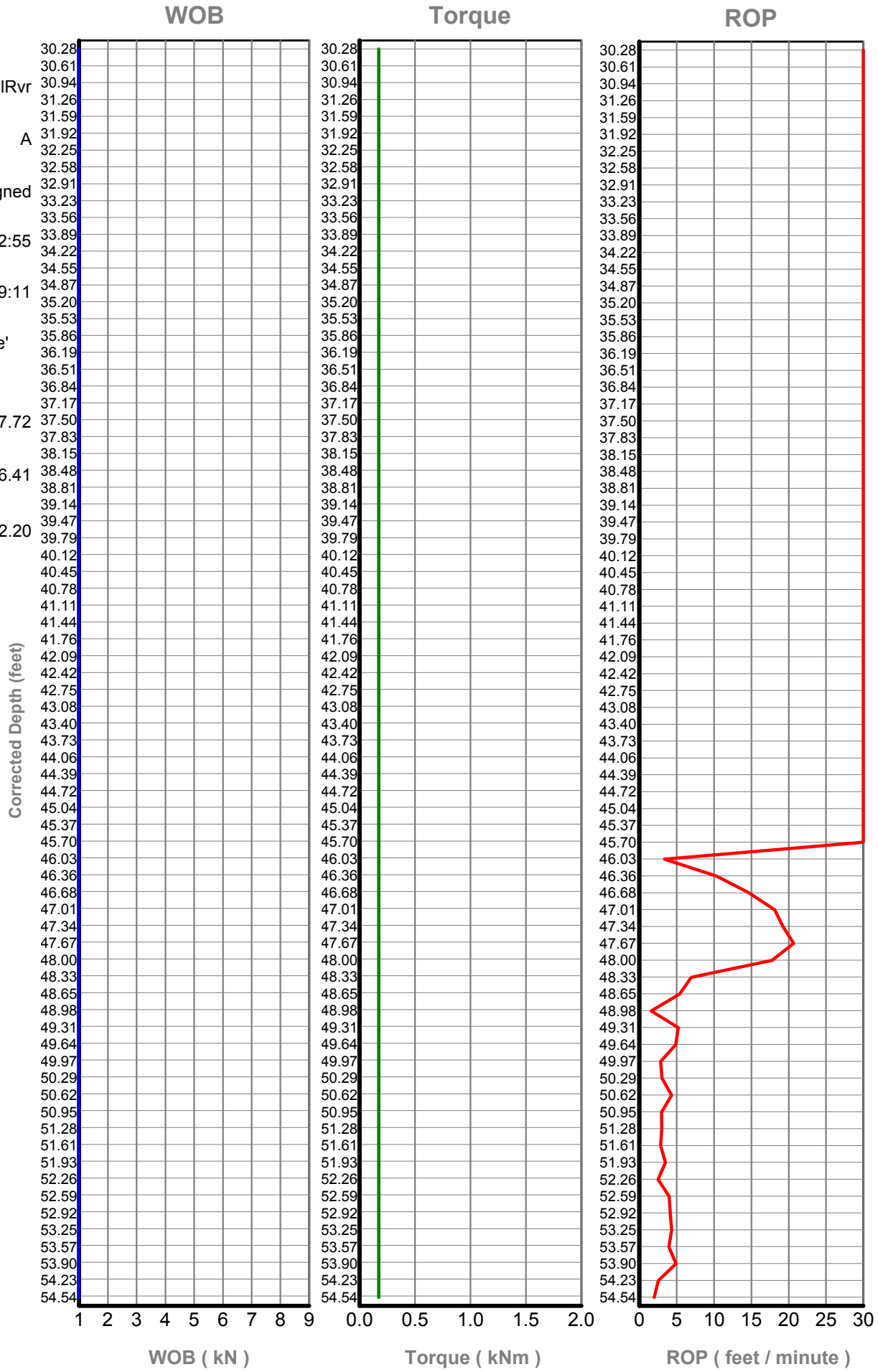
**End Date:**
5/3/2015 8:59:11

**Operator Note:**
'2.2 1.7 a Auto Complete'

**Northing:**
349,677.72

**Easting:**
225,156.41

**Tide (feet):**
2.20



## Hole: P1004 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 8:54:55 | 32.48 | 30.28 | 1,065 | 0.36 | 0.39 | 58.2 |
| 5/3/2015 8:54:56 | 32.81 | 30.61 | 1,049 | 0.07 | 0.40 | 57.4 |
| 5/3/2015 8:54:56 | 33.14 | 30.94 | 1,049 | 0.07 | 0.40 | 57.4 |
| 5/3/2015 8:54:56 | 33.46 | 31.26 | 1,054 | 0.36 | 0.40 | 57.7 |
| 5/3/2015 8:54:57 | 33.79 | 31.59 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:54:57 | 34.12 | 31.92 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:54:57 | 34.45 | 32.25 | 1,061 | 0.35 | 0.40 | 58.0 |
| 5/3/2015 8:54:58 | 34.78 | 32.58 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:54:58 | 35.11 | 32.91 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:54:58 | 35.43 | 33.23 | 1,067 | 0.41 | 0.38 | 58.3 |
| 5/3/2015 8:54:59 | 35.76 | 33.56 | 1,061 | 0.35 | 0.40 | 58.0 |
| 5/3/2015 8:54:59 | 36.09 | 33.89 | 1,061 | 0.35 | 0.40 | 58.0 |
| 5/3/2015 8:54:59 | 36.42 | 34.22 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:55:00 | 36.75 | 34.55 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:55:00 | 37.07 | 34.87 | 1,055 | 0.36 | 0.40 | 57.7 |
| 5/3/2015 8:55:00 | 37.40 | 35.20 | 1,067 | 0.36 | 0.40 | 58.3 |
| 5/3/2015 8:55:01 | 37.73 | 35.53 | 1,067 | 0.36 | 0.40 | 58.3 |
| 5/3/2015 8:55:01 | 38.06 | 35.86 | 1,064 | 0.52 | 0.40 | 58.2 |
| 5/3/2015 8:55:01 | 38.39 | 36.19 | 1,070 | 0.43 | 0.40 | 58.5 |
| 5/3/2015 8:55:02 | 38.71 | 36.51 | 1,070 | 0.43 | 0.40 | 58.5 |
| 5/3/2015 8:55:24 | 39.04 | 36.84 | 37 | 0.35 | 0.40 | 2.0 |
| 5/3/2015 8:55:24 | 39.37 | 37.17 | 37 | 0.35 | 0.40 | 2.0 |
| 5/3/2015 8:55:24 | 39.70 | 37.50 | 243 | 0.35 | 0.40 | 13.3 |
| 5/3/2015 8:55:25 | 40.03 | 37.83 | 452 | 0.34 | 0.40 | 24.7 |
| 5/3/2015 8:55:26 | 40.35 | 38.15 | 452 | 0.34 | 0.40 | 24.7 |
| 5/3/2015 8:55:26 | 40.68 | 38.48 | 660 | 0.34 | 0.40 | 36.1 |
| 5/3/2015 8:55:26 | 41.01 | 38.81 | 875 | 0.35 | 0.39 | 47.9 |
| 5/3/2015 8:55:27 | 41.34 | 39.14 | 875 | 0.35 | 0.39 | 47.9 |
| 5/3/2015 8:55:27 | 41.67 | 39.47 | 1,046 | 0.35 | 0.40 | 57.2 |
| 5/3/2015 8:55:27 | 41.99 | 39.79 | 1,052 | 0.35 | 0.40 | 57.5 |
| 5/3/2015 8:55:28 | 42.32 | 40.12 | 1,052 | 0.35 | 0.40 | 57.5 |
| 5/3/2015 8:55:28 | 42.65 | 40.45 | 1,061 | 0.36 | 0.40 | 58.0 |
| 5/3/2015 8:55:28 | 42.98 | 40.78 | 1,064 | 0.36 | 0.40 | 58.2 |
| 5/3/2015 8:55:29 | 43.31 | 41.11 | 1,064 | 0.36 | 0.40 | 58.2 |
| 5/3/2015 8:55:29 | 43.64 | 41.44 | 1,064 | 0.36 | 0.40 | 58.2 |
| 5/3/2015 8:55:29 | 43.96 | 41.76 | 1,067 | 0.35 | 0.40 | 58.3 |
| 5/3/2015 8:55:30 | 44.29 | 42.09 | 1,067 | 0.35 | 0.40 | 58.3 |
| 5/3/2015 8:55:30 | 44.62 | 42.42 | 1,069 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:30 | 44.95 | 42.75 | 1,069 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:30 | 45.28 | 43.08 | 1,069 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:31 | 45.60 | 43.40 | 1,069 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:31 | 45.93 | 43.73 | 1,069 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:31 | 46.26 | 44.06 | 1,063 | 0.35 | 0.40 | 58.1 |
| 5/3/2015 8:55:32 | 46.59 | 44.39 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/3/2015 8:55:32 | 46.92 | 44.72 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/3/2015 8:55:32 | 47.24 | 45.04 | 1,072 | 0.35 | 0.39 | 58.6 |
| 5/3/2015 8:55:33 | 47.57 | 45.37 | 1,060 | 0.35 | 0.39 | 58.0 |
| 5/3/2015 8:55:33 | 47.90 | 45.70 | 1,060 | 0.35 | 0.39 | 58.0 |
| 5/3/2015 8:55:33 | 48.23 | 46.03 | 1,070 | 0.35 | 0.40 | 58.5 |
| 5/3/2015 8:55:45 | 48.56 | 46.36 | 0 | 2.70 | 0.41 | 0.0 |
| 5/3/2015 8:55:46 | 48.88 | 46.68 | 37 | 3.40 | 0.45 | 2.0 |
| 5/3/2015 8:55:48 | 49.21 | 47.01 | 244 | 3.78 | 0.49 | 13.3 |
| 5/3/2015 8:55:50 | 49.54 | 47.34 | 196 | 4.83 | 0.47 | 10.7 |
| 5/3/2015 8:55:57 | 49.87 | 47.67 | 43 | 4.53 | 0.45 | 2.4 |
| 5/3/2015 8:55:57 | 50.20 | 48.00 | 138 | 3.35 | 0.44 | 7.5 |
| 5/3/2015 8:56:06 | 50.53 | 48.33 | 49 | 3.62 | 0.45 | 2.7 |
| 5/3/2015 8:56:08 | 50.85 | 48.65 | 234 | 3.69 | 0.47 | 12.8 |
| 5/3/2015 8:56:56 | 51.18 | 48.98 | 29 | 4.52 | 0.49 | 1.6 |
| 5/3/2015 8:57:02 | 51.51 | 49.31 | 84 | 4.02 | 0.48 | 4.6 |
| 5/3/2015 8:57:07 | 51.84 | 49.64 | 78 | 3.93 | 0.48 | 4.3 |
| 5/3/2015 8:57:11 | 52.17 | 49.97 | 90 | 3.35 | 0.48 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 8:57:15 | 52.49 | 50.29 | 96 | 3.71 | 0.48 | 5.2 |
| 5/3/2015 | 8:57:19 | 52.82 | 50.62 | 89 | 3.76 | 0.48 | 4.9 |
| 5/3/2015 | 8:57:23 | 53.15 | 50.95 | 84 | 3.31 | 0.49 | 4.6 |
| 5/3/2015 | 8:57:35 | 53.48 | 51.28 | 23 | 2.78 | 0.49 | 1.3 |
| 5/3/2015 | 8:57:53 | 53.81 | 51.61 | 20 | 2.92 | 0.49 | 1.1 |
| 5/3/2015 | 8:58:09 | 54.13 | 51.93 | 20 | 2.72 | 0.49 | 1.1 |

## P1004 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 8:51:56

**End Date:**
5/3/2015 8:59:49

**Operator Note:**
'2.2 1.7 b Rock'

**Northing:**
349,717.50

**Easting:**
225,220.10

**Tide (feet):**
2.20



## Hole: P1005 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 8:54:17 | 32.48 | 30.28 | 907 | 1.14 | 0.29 | 49.6 |
| 5/3/2015 8:54:17 | 32.81 | 30.61 | 907 | 1.14 | 0.29 | 49.6 |
| 5/3/2015 8:54:17 | 33.14 | 30.94 | 907 | 1.14 | 0.29 | 49.6 |
| 5/3/2015 8:54:18 | 33.46 | 31.26 | 907 | 1.14 | 0.29 | 49.6 |
| 5/3/2015 8:54:18 | 33.79 | 31.59 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:19 | 34.12 | 31.92 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:19 | 34.45 | 32.25 | 904 | 1.14 | 0.29 | 49.4 |
| 5/3/2015 8:54:19 | 34.78 | 32.58 | 896 | 1.14 | 0.29 | 49.0 |
| 5/3/2015 8:54:20 | 35.11 | 32.91 | 902 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:20 | 35.43 | 33.23 | 902 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:20 | 35.76 | 33.56 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:21 | 36.09 | 33.89 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:21 | 36.42 | 34.22 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:22 | 36.75 | 34.55 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:22 | 37.07 | 34.87 | 905 | 1.14 | 0.29 | 49.5 |
| 5/3/2015 8:54:22 | 37.40 | 35.20 | 904 | 1.14 | 0.29 | 49.4 |
| 5/3/2015 8:54:23 | 37.73 | 35.53 | 902 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:23 | 38.06 | 35.86 | 901 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:24 | 38.39 | 36.19 | 901 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:24 | 38.71 | 36.51 | 902 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:24 | 39.04 | 36.84 | 901 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:25 | 39.37 | 37.17 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:25 | 39.70 | 37.50 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:25 | 40.03 | 37.83 | 893 | 1.14 | 0.29 | 48.8 |
| 5/3/2015 8:54:26 | 40.35 | 38.15 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:26 | 40.68 | 38.48 | 898 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:27 | 41.01 | 38.81 | 898 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:27 | 41.34 | 39.14 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:28 | 41.67 | 39.47 | 901 | 1.14 | 0.29 | 49.3 |
| 5/3/2015 8:54:28 | 41.99 | 39.79 | 898 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:29 | 42.32 | 40.12 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:29 | 42.65 | 40.45 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:29 | 42.98 | 40.78 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:30 | 43.31 | 41.11 | 896 | 1.14 | 0.29 | 49.0 |
| 5/3/2015 8:54:30 | 43.64 | 41.44 | 896 | 1.14 | 0.29 | 49.0 |
| 5/3/2015 8:54:31 | 43.96 | 41.76 | 896 | 1.14 | 0.29 | 49.0 |
| 5/3/2015 8:54:31 | 44.29 | 42.09 | 899 | 1.14 | 0.29 | 49.1 |
| 5/3/2015 8:54:31 | 44.62 | 42.42 | 895 | 1.14 | 0.29 | 49.0 |
| 5/3/2015 8:54:32 | 44.95 | 42.75 | 882 | 1.14 | 0.29 | 48.2 |
| 5/3/2015 8:54:45 | 45.28 | 43.08 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 8:54:46 | 45.60 | 43.40 | 42 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 8:54:47 | 45.93 | 43.73 | 188 | 1.14 | 0.29 | 10.3 |
| 5/3/2015 8:54:51 | 46.26 | 44.06 | 92 | 1.14 | 0.29 | 5.0 |
| 5/3/2015 8:54:55 | 46.59 | 44.39 | 89 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 8:54:59 | 46.92 | 44.72 | 95 | 1.14 | 0.29 | 5.2 |
| 5/3/2015 8:55:05 | 47.24 | 45.04 | 56 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 8:55:10 | 47.57 | 45.37 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 8:55:17 | 47.90 | 45.70 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 8:55:23 | 48.23 | 46.03 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 8:55:28 | 48.56 | 46.36 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 8:55:30 | 48.70 | 46.50 | 87 | 1.14 | 0.29 | 4.8 |

## P1005 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/3/2015 8:52:02

**End Date:**
5/3/2015 8:58:44

**Operator Note:**
'2.2 1.7 c Auto Complete'

**Northing:**
349,757.00

**Easting:**
225,283.70

**Tide (feet):**
2.20



## Hole: P1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:30:27 | 33.46 | 30.16 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 9:30:27 | 33.79 | 30.49 | 941 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 9:30:28 | 34.12 | 30.82 | 930 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 9:30:28 | 34.45 | 31.15 | 930 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 9:30:28 | 34.78 | 31.48 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 9:30:29 | 35.11 | 31.81 | 944 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 9:30:30 | 35.43 | 32.13 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:30 | 35.76 | 32.46 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:30 | 36.09 | 32.79 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:31 | 36.42 | 33.12 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:31 | 36.75 | 33.45 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:32 | 37.07 | 33.77 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:32 | 37.40 | 34.10 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 9:30:32 | 37.73 | 34.43 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 9:30:33 | 38.06 | 34.76 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 9:30:33 | 38.39 | 35.09 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 9:30:33 | 38.71 | 35.41 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 9:30:34 | 39.04 | 35.74 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 9:30:34 | 39.37 | 36.07 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 9:30:35 | 39.70 | 36.40 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 9:30:35 | 40.03 | 36.73 | 923 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 9:30:35 | 40.35 | 37.05 | 929 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 9:30:36 | 40.68 | 37.38 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:36 | 41.01 | 37.71 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 9:30:36 | 41.34 | 38.04 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 9:30:37 | 41.67 | 38.37 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 9:30:37 | 41.99 | 38.69 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 9:30:38 | 42.32 | 39.02 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 9:30:38 | 42.65 | 39.35 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 9:30:38 | 42.98 | 39.68 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 9:30:39 | 43.31 | 40.01 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 9:30:39 | 43.64 | 40.34 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 9:30:39 | 43.96 | 40.66 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 9:30:40 | 44.29 | 40.99 | 907 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 9:30:41 | 44.62 | 41.32 | 904 | 0.54 | 0.17 | 49.5 |
| 5/3/2015 9:30:41 | 44.95 | 41.65 | 904 | 0.54 | 0.17 | 49.5 |
| 5/3/2015 9:30:41 | 45.28 | 41.98 | 904 | 0.54 | 0.17 | 49.5 |
| 5/3/2015 9:30:42 | 45.60 | 42.30 | 899 | 0.54 | 0.17 | 49.1 |
| 5/3/2015 9:30:42 | 45.93 | 42.63 | 904 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 9:30:43 | 46.26 | 42.96 | 904 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 9:30:43 | 46.59 | 43.29 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 9:30:43 | 46.92 | 43.62 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 9:30:58 | 47.24 | 43.94 | 91 | 0.54 | 0.17 | 5.0 |
| 5/3/2015 9:30:59 | 47.57 | 44.27 | 202 | 0.54 | 0.17 | 11.0 |
| 5/3/2015 9:31:00 | 47.90 | 44.60 | 262 | 0.54 | 0.17 | 14.3 |
| 5/3/2015 9:31:03 | 48.23 | 44.93 | 165 | 0.54 | 0.17 | 9.0 |
| 5/3/2015 9:31:06 | 48.56 | 45.26 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 9:31:08 | 48.88 | 45.58 | 151 | 0.54 | 0.17 | 8.2 |
| 5/3/2015 9:31:09 | 49.21 | 45.91 | 253 | 0.54 | 0.17 | 13.8 |
| 5/3/2015 9:31:11 | 49.54 | 46.24 | 234 | 0.54 | 0.17 | 12.8 |
| 5/3/2015 9:31:12 | 49.87 | 46.57 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 9:31:14 | 50.20 | 46.90 | 206 | 0.54 | 0.17 | 11.3 |
| 5/3/2015 9:31:16 | 50.53 | 47.23 | 204 | 0.54 | 0.17 | 11.1 |
| 5/3/2015 9:31:18 | 50.85 | 47.55 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 9:31:20 | 51.18 | 47.88 | 169 | 0.54 | 0.17 | 9.2 |
| 5/3/2015 9:31:23 | 51.51 | 48.21 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 9:31:25 | 51.84 | 48.54 | 154 | 0.54 | 0.17 | 8.4 |
| 5/3/2015 9:31:29 | 52.17 | 48.87 | 99 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 9:31:34 | 52.49 | 49.19 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 9:31:38 | 52.82 | 49.52 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 9:31:45 | 53.15 | 49.85 | 64 | 0.54 | 0.17 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:31:50 | 53.48 | 50.18 | 67 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 | 9:31:55 | 53.81 | 50.51 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 9:32:00 | 54.13 | 50.83 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 | 9:32:06 | 54.46 | 51.16 | 53 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 9:32:21 | 54.79 | 51.49 | 77 | 0.54 | 0.17 | 4.2 |
| 5/3/2015 | 9:32:26 | 55.12 | 51.82 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 9:32:30 | 55.45 | 52.15 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 9:32:33 | 55.77 | 52.47 | 108 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 | 9:32:36 | 56.10 | 52.80 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 | 9:32:41 | 56.43 | 53.13 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 9:32:45 | 56.76 | 53.46 | 91 | 0.54 | 0.17 | 5.0 |
| 5/3/2015 | 9:32:48 | 57.09 | 53.79 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 | 9:32:53 | 57.41 | 54.11 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 9:32:57 | 57.74 | 54.44 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 | 9:32:59 | 57.97 | 54.67 | 81 | 0.54 | 0.17 | 4.4 |

## P1006 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:29:02

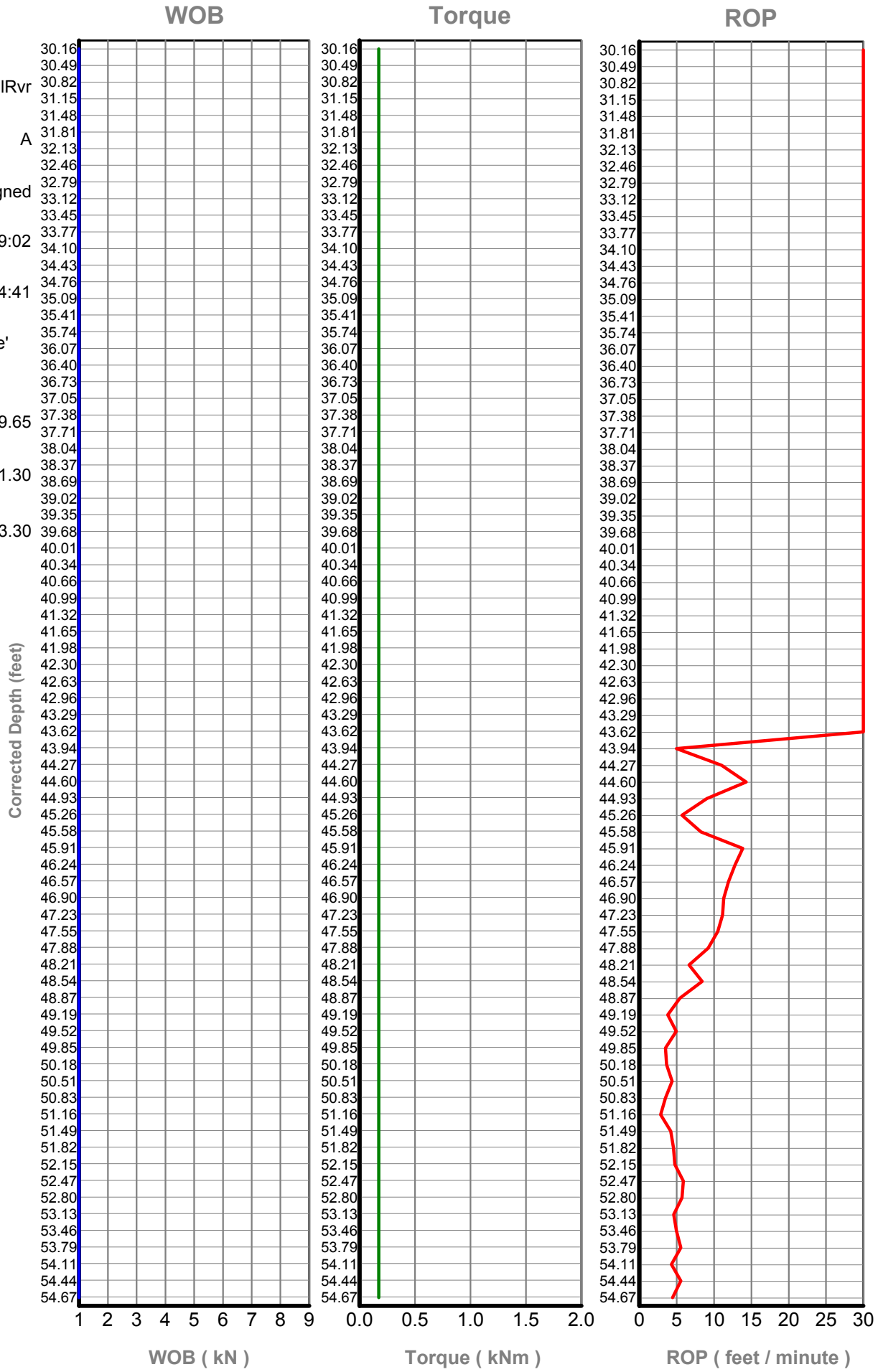
**End Date:**
5/3/2015 9:34:41

**Operator Note:**
'3.3 3.0 a Auto Complete'

**Northing:**
349,499.65

**Easting:**
225,001.30

**Tide (feet):**
3.30



## Hole: P1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:30:27 | 33.46 | 30.16 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/3/2015 9:30:28 | 33.79 | 30.49 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/3/2015 9:30:28 | 34.12 | 30.82 | 1,269 | 0.30 | 0.37 | 69.4 |
| 5/3/2015 9:30:29 | 34.45 | 31.15 | 1,269 | 0.30 | 0.37 | 69.4 |
| 5/3/2015 9:30:29 | 34.78 | 31.48 | 1,272 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 9:30:29 | 35.11 | 31.81 | 1,272 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 9:30:29 | 35.43 | 32.13 | 1,269 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 9:30:30 | 35.76 | 32.46 | 1,269 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 9:30:30 | 36.09 | 32.79 | 1,269 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 9:30:30 | 36.42 | 33.12 | 1,269 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 9:30:30 | 36.75 | 33.45 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 9:30:31 | 37.07 | 33.77 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 9:30:31 | 37.40 | 34.10 | 1,269 | 0.31 | 0.37 | 69.4 |
| 5/3/2015 9:30:31 | 37.73 | 34.43 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/3/2015 9:30:32 | 38.06 | 34.76 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/3/2015 9:30:32 | 38.39 | 35.09 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 9:30:32 | 38.71 | 35.41 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 9:30:32 | 39.04 | 35.74 | 1,266 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 9:30:33 | 39.37 | 36.07 | 1,266 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 9:30:33 | 39.70 | 36.40 | 1,280 | 0.31 | 0.38 | 70.0 |
| 5/3/2015 9:30:33 | 40.03 | 36.73 | 1,280 | 0.31 | 0.38 | 70.0 |
| 5/3/2015 9:30:33 | 40.35 | 37.05 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 9:30:34 | 40.68 | 37.38 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 9:30:34 | 41.01 | 37.71 | 1,271 | 0.31 | 0.38 | 69.5 |
| 5/3/2015 9:30:34 | 41.34 | 38.04 | 1,263 | 0.33 | 0.38 | 69.1 |
| 5/3/2015 9:30:35 | 41.67 | 38.37 | 1,263 | 0.33 | 0.38 | 69.1 |
| 5/3/2015 9:30:35 | 41.99 | 38.69 | 1,266 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 9:30:35 | 42.32 | 39.02 | 1,266 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 9:30:35 | 42.65 | 39.35 | 1,255 | 0.31 | 0.38 | 68.7 |
| 5/3/2015 9:30:36 | 42.98 | 39.68 | 1,255 | 0.31 | 0.38 | 68.7 |
| 5/3/2015 9:30:36 | 43.31 | 40.01 | 1,266 | 0.31 | 0.40 | 69.2 |
| 5/3/2015 9:30:36 | 43.64 | 40.34 | 1,266 | 0.31 | 0.40 | 69.2 |
| 5/3/2015 9:30:36 | 43.96 | 40.66 | 1,261 | 0.31 | 0.37 | 69.0 |
| 5/3/2015 9:30:37 | 44.29 | 40.99 | 1,261 | 0.31 | 0.37 | 69.0 |
| 5/3/2015 9:30:37 | 44.62 | 41.32 | 1,275 | 0.31 | 0.39 | 69.7 |
| 5/3/2015 9:30:37 | 44.95 | 41.65 | 1,275 | 0.31 | 0.39 | 69.7 |
| 5/3/2015 9:30:37 | 45.28 | 41.98 | 1,269 | 0.31 | 0.37 | 69.4 |
| 5/3/2015 9:30:38 | 45.60 | 42.30 | 1,274 | 0.31 | 0.38 | 69.7 |
| 5/3/2015 9:30:39 | 45.93 | 42.63 | 1,274 | 0.31 | 0.38 | 69.7 |
| 5/3/2015 9:30:38 | 46.26 | 42.96 | 1,259 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 9:30:39 | 46.59 | 43.29 | 1,259 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 9:30:39 | 46.92 | 43.62 | 1,270 | 0.37 | 0.37 | 69.4 |
| 5/3/2015 9:30:40 | 47.24 | 43.94 | 1,270 | 0.37 | 0.37 | 69.4 |
| 5/3/2015 9:30:40 | 47.57 | 44.27 | 1,264 | 0.29 | 0.44 | 69.1 |
| 5/3/2015 9:30:46 | 47.90 | 44.60 | 0 | 3.31 | 0.42 | 0.0 |
| 5/3/2015 9:31:03 | 48.23 | 44.93 | 0 | 4.32 | 0.46 | 0.0 |
| 5/3/2015 9:31:05 | 48.56 | 45.26 | 80 | 3.28 | 0.43 | 4.4 |
| 5/3/2015 9:31:05 | 48.88 | 45.58 | 165 | 3.48 | 0.43 | 9.0 |
| 5/3/2015 9:31:12 | 49.21 | 45.91 | 0 | 1.96 | 0.41 | 0.0 |
| 5/3/2015 9:31:13 | 49.54 | 46.24 | 171 | 2.07 | 0.43 | 9.3 |
| 5/3/2015 9:31:13 | 49.87 | 46.57 | 296 | 2.26 | 0.44 | 16.2 |
| 5/3/2015 9:31:14 | 50.20 | 46.90 | 459 | 2.77 | 0.47 | 25.1 |
| 5/3/2015 9:31:22 | 50.53 | 47.23 | 114 | 3.62 | 0.48 | 6.2 |
| 5/3/2015 9:31:32 | 50.85 | 47.55 | 44 | 3.27 | 0.45 | 2.4 |
| 5/3/2015 9:31:38 | 51.18 | 47.88 | 55 | 3.41 | 0.48 | 3.0 |
| 5/3/2015 9:31:40 | 51.51 | 48.21 | 116 | 3.98 | 0.46 | 6.3 |
| 5/3/2015 9:31:46 | 51.84 | 48.54 | 0 | 4.12 | 0.49 | 0.0 |
| 5/3/2015 9:31:48 | 52.17 | 48.87 | 130 | 4.31 | 0.47 | 7.1 |
| 5/3/2015 9:31:50 | 52.49 | 49.19 | 210 | 3.01 | 0.48 | 11.5 |
| 5/3/2015 9:31:55 | 52.82 | 49.52 | 68 | 3.32 | 0.47 | 3.7 |
| 5/3/2015 9:31:58 | 53.15 | 49.85 | 124 | 3.61 | 0.48 | 6.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:32:10 | 53.48 | 50.18 | 15 | 5.69 | 0.49 | 0.8 |
| 5/3/2015 | 9:32:20 | 53.81 | 50.51 | 53 | 3.44 | 0.47 | 2.9 |
| 5/3/2015 | 9:32:22 | 54.13 | 50.83 | 154 | 3.75 | 0.47 | 8.4 |
| 5/3/2015 | 9:32:24 | 54.46 | 51.16 | 232 | 2.90 | 0.47 | 12.7 |
| 5/3/2015 | 9:32:25 | 54.79 | 51.49 | 226 | 2.60 | 0.48 | 12.4 |
| 5/3/2015 | 9:32:28 | 55.12 | 51.82 | 164 | 3.18 | 0.47 | 9.0 |
| 5/3/2015 | 9:32:30 | 55.45 | 52.15 | 163 | 3.14 | 0.48 | 8.9 |
| 5/3/2015 | 9:32:41 | 55.77 | 52.47 | 49 | 3.15 | 0.47 | 2.7 |
| 5/3/2015 | 9:32:46 | 56.10 | 52.80 | 73 | 3.45 | 0.47 | 4.0 |
| 5/3/2015 | 9:32:50 | 56.43 | 53.13 | 90 | 3.15 | 0.48 | 4.9 |
| 5/3/2015 | 9:32:56 | 56.76 | 53.46 | 63 | 3.14 | 0.48 | 3.5 |
| 5/3/2015 | 9:33:00 | 57.09 | 53.79 | 84 | 3.90 | 0.49 | 4.6 |
| 5/3/2015 | 9:33:07 | 57.41 | 54.11 | 55 | 3.60 | 0.49 | 3.0 |
| 5/3/2015 | 9:33:15 | 57.74 | 54.44 | 44 | 2.86 | 0.48 | 2.4 |
| 5/3/2015 | 9:33:22 | 58.00 | 54.70 | 34 | 2.68 | 0.48 | 1.9 |

## P1007 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:28:41

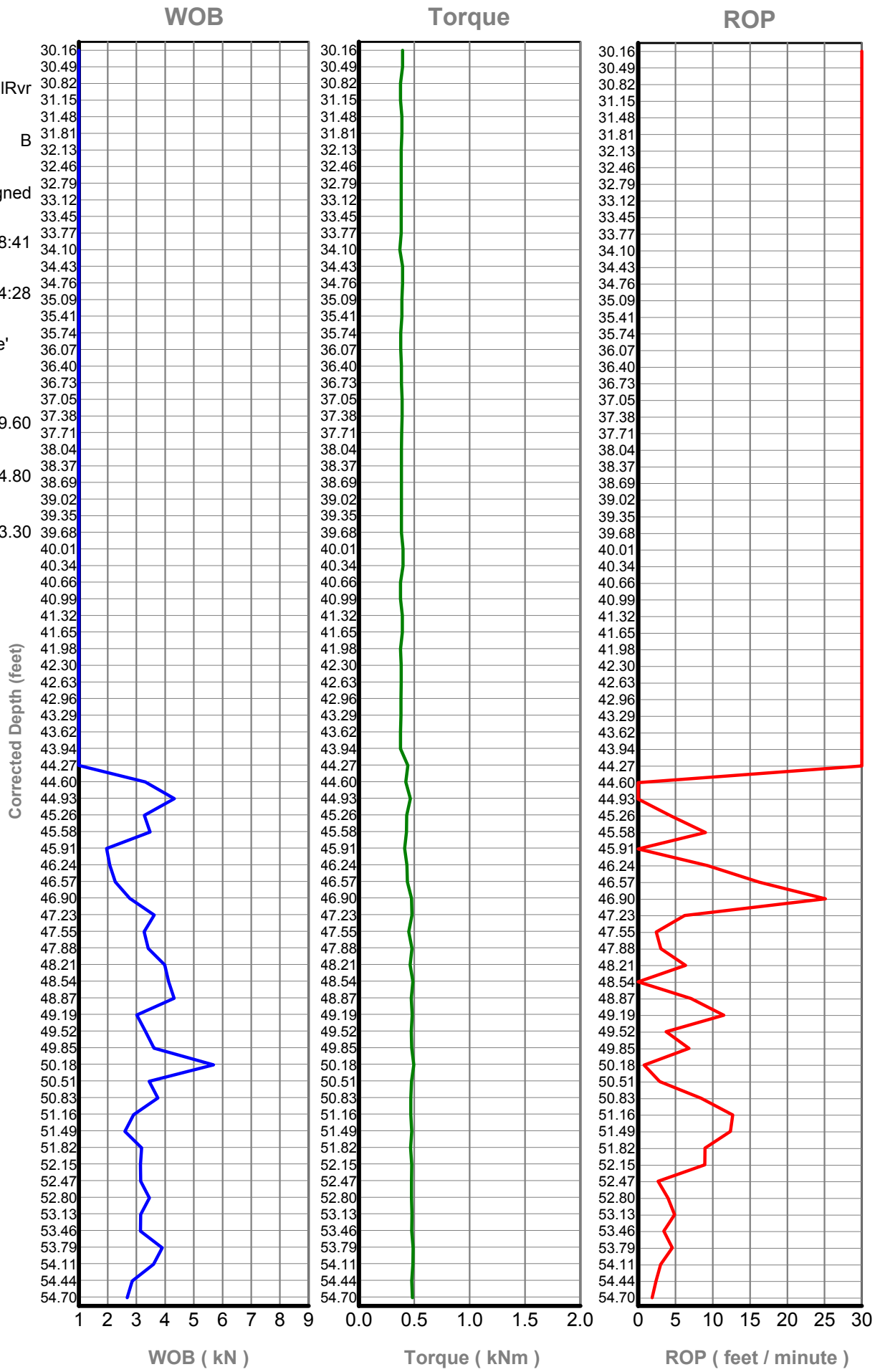
**End Date:**
5/3/2015 9:34:28

**Operator Note:**
'3.3 3.0 b Auto Complete'

**Northing:**
349,539.60

**Easting:**
225,064.80

**Tide (feet):**
3.30



## Hole: P1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:30:07 | 33.46 | 30.16 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 9:30:08 | 33.79 | 30.49 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 9:30:08 | 34.12 | 30.82 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 9:30:08 | 34.45 | 31.15 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 9:30:09 | 34.78 | 31.48 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 9:30:09 | 35.11 | 31.81 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 9:30:09 | 35.43 | 32.13 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:30:10 | 35.76 | 32.46 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:30:10 | 36.09 | 32.79 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 9:30:10 | 36.42 | 33.12 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:30:11 | 36.75 | 33.45 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:30:11 | 37.07 | 33.77 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:30:11 | 37.40 | 34.10 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:30:12 | 37.73 | 34.43 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 9:30:12 | 38.06 | 34.76 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 9:30:12 | 38.39 | 35.09 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 9:30:13 | 38.71 | 35.41 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 9:30:13 | 39.04 | 35.74 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 9:30:13 | 39.37 | 36.07 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:30:14 | 39.70 | 36.40 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 9:30:14 | 40.03 | 36.73 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 9:30:14 | 40.35 | 37.05 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 9:30:15 | 40.68 | 37.38 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 9:30:15 | 41.01 | 37.71 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 9:30:15 | 41.34 | 38.04 | 1,041 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 9:30:16 | 41.67 | 38.37 | 1,041 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 9:30:16 | 41.99 | 38.69 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 9:30:17 | 42.32 | 39.02 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 9:30:17 | 42.65 | 39.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 9:30:17 | 42.98 | 39.68 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 9:30:18 | 43.31 | 40.01 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 9:30:18 | 43.64 | 40.34 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 9:30:18 | 43.96 | 40.66 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 9:30:19 | 44.29 | 40.99 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:19 | 44.62 | 41.32 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:19 | 44.95 | 41.65 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:20 | 45.28 | 41.98 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:20 | 45.60 | 42.30 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:20 | 45.93 | 42.63 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 9:30:21 | 46.26 | 42.96 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 9:30:21 | 46.59 | 43.29 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 9:30:21 | 46.92 | 43.62 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 9:30:37 | 47.24 | 43.94 | 125 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 9:30:38 | 47.57 | 44.27 | 260 | 1.14 | 0.29 | 14.2 |
| 5/3/2015 9:30:38 | 47.90 | 44.60 | 293 | 1.14 | 0.29 | 16.0 |
| 5/3/2015 9:30:39 | 48.23 | 44.93 | 329 | 1.14 | 0.29 | 18.0 |
| 5/3/2015 9:31:16 | 48.56 | 45.26 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 9:31:17 | 48.88 | 45.58 | 121 | 1.14 | 0.29 | 6.6 |
| 5/3/2015 9:31:17 | 49.21 | 45.91 | 241 | 1.14 | 0.29 | 13.2 |
| 5/3/2015 9:31:18 | 49.54 | 46.24 | 355 | 1.14 | 0.29 | 19.4 |
| 5/3/2015 9:31:18 | 49.87 | 46.57 | 469 | 1.14 | 0.29 | 25.7 |
| 5/3/2015 9:31:19 | 50.20 | 46.90 | 591 | 1.14 | 0.29 | 32.3 |
| 5/3/2015 9:31:20 | 50.53 | 47.23 | 579 | 1.14 | 0.29 | 31.7 |
| 5/3/2015 9:31:47 | 50.85 | 47.55 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 9:31:48 | 51.18 | 47.88 | 53 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 9:31:48 | 51.51 | 48.21 | 197 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 9:31:51 | 51.84 | 48.54 | 198 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 9:31:52 | 52.17 | 48.87 | 213 | 1.14 | 0.29 | 11.6 |
| 5/3/2015 9:32:04 | 52.49 | 49.19 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 9:32:08 | 52.82 | 49.52 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 9:32:09 | 53.15 | 49.85 | 190 | 1.14 | 0.29 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 9:32:24 | 53.48 | 50.18 | 59 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 | 9:32:43 | 53.81 | 50.51 | 102 | 1.14 | 0.29 | 5.6 |
| 5/3/2015 | 9:32:47 | 54.13 | 50.83 | 87 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 | 9:33:18 | 54.46 | 51.16 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 9:33:27 | 54.79 | 51.49 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 | 9:33:48 | 55.12 | 51.82 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 | 9:34:04 | 55.37 | 52.07 | 0 | 1.14 | 0.29 | 0.0 |

## P1008 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:28:45

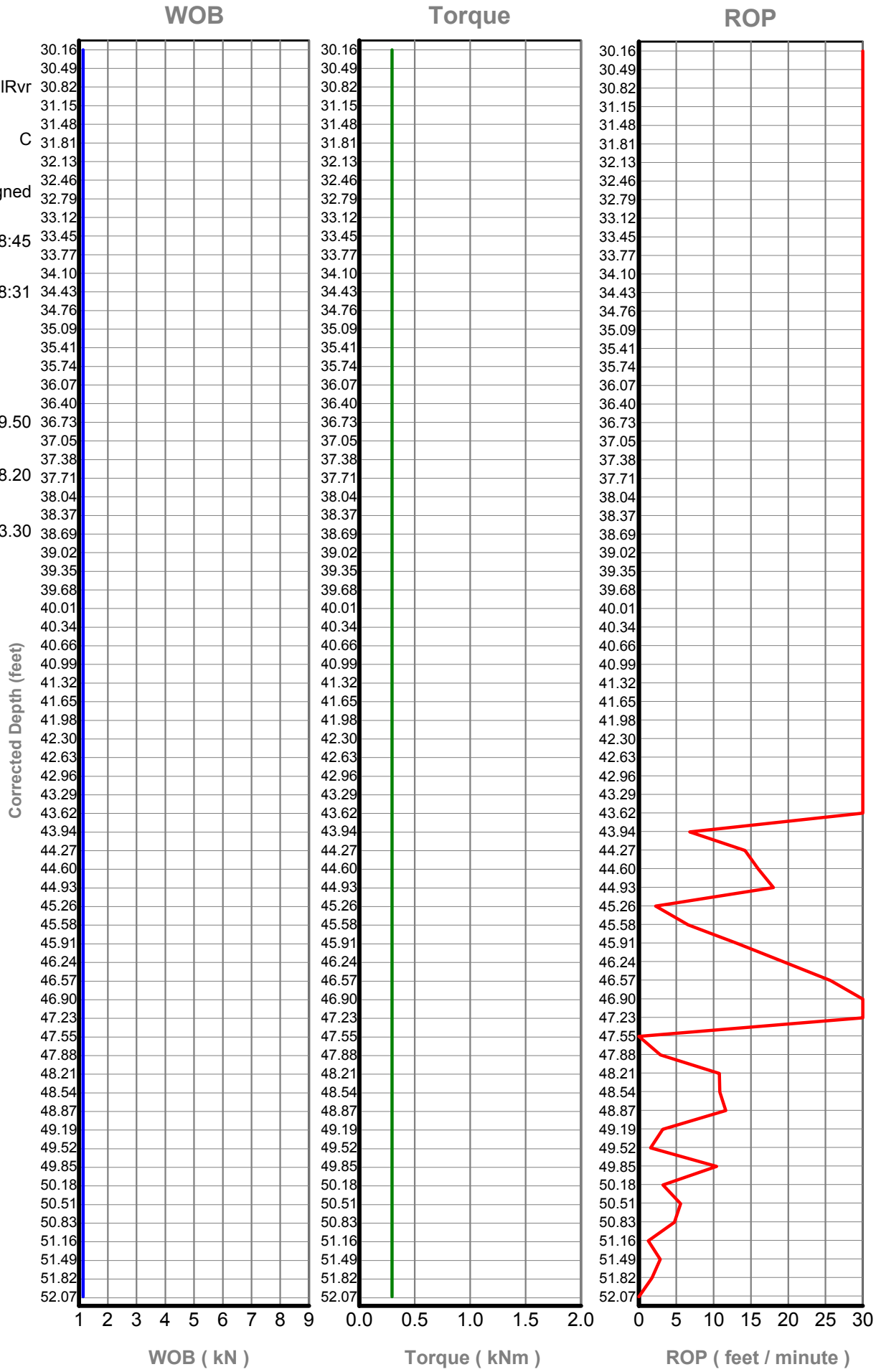
**End Date:**
5/3/2015 9:38:31

**Operator Note:**
'3.3 3.0 c Auto Complete'

**Northing:**
349,579.50

**Easting:**
225,128.20

**Tide (feet):**
3.30



## Hole: P1009 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:24:49 | 36.09 | 30.19 | 1,017 | 1.43 | 0.27 | 55.6 |
| 5/3/2015 23:24:49 | 36.42 | 30.52 | 913 | 1.43 | 0.26 | 49.9 |
| 5/3/2015 23:24:50 | 36.75 | 30.85 | 832 | 1.45 | 0.27 | 45.5 |
| 5/3/2015 23:24:50 | 37.07 | 31.17 | 832 | 1.45 | 0.27 | 45.5 |
| 5/3/2015 23:24:50 | 37.40 | 31.50 | 832 | 1.45 | 0.27 | 45.5 |
| 5/3/2015 23:24:51 | 37.73 | 31.83 | 845 | 1.43 | 0.27 | 46.2 |
| 5/3/2015 23:24:51 | 38.06 | 32.16 | 833 | 1.47 | 0.27 | 45.6 |
| 5/3/2015 23:24:52 | 38.39 | 32.49 | 833 | 1.44 | 0.27 | 45.6 |
| 5/3/2015 23:24:52 | 38.71 | 32.81 | 832 | 0.22 | 0.14 | 45.5 |
| 5/3/2015 23:24:53 | 39.04 | 33.14 | 832 | 0.22 | 0.14 | 45.5 |
| 5/3/2015 23:24:57 | 39.37 | 33.47 | 86 | 1.90 | 0.25 | 4.7 |
| 5/3/2015 23:24:57 | 39.70 | 33.80 | 113 | 2.02 | 0.25 | 6.2 |
| 5/3/2015 23:24:57 | 40.03 | 34.13 | 113 | 2.02 | 0.25 | 6.2 |
| 5/3/2015 23:24:58 | 40.35 | 34.45 | 113 | 2.00 | 0.25 | 6.2 |
| 5/3/2015 23:24:58 | 40.68 | 34.78 | 113 | 2.00 | 0.25 | 6.2 |
| 5/3/2015 23:24:58 | 41.01 | 35.11 | 400 | 2.00 | 0.25 | 21.9 |
| 5/3/2015 23:24:59 | 41.34 | 35.44 | 400 | 2.00 | 0.25 | 21.9 |
| 5/3/2015 23:24:59 | 41.67 | 35.77 | 644 | 2.00 | 0.24 | 35.2 |
| 5/3/2015 23:24:59 | 41.99 | 36.09 | 644 | 2.00 | 0.24 | 35.2 |
| 5/3/2015 23:24:59 | 42.32 | 36.42 | 644 | 2.02 | 0.25 | 35.2 |
| 5/3/2015 23:24:59 | 42.65 | 36.75 | 644 | 2.02 | 0.25 | 35.2 |
| 5/3/2015 23:25:00 | 42.98 | 37.08 | 925 | 2.00 | 0.25 | 50.6 |
| 5/3/2015 23:25:00 | 43.31 | 37.41 | 925 | 2.00 | 0.25 | 50.6 |
| 5/3/2015 23:25:00 | 43.64 | 37.74 | 1,166 | 2.03 | 0.25 | 63.8 |
| 5/3/2015 23:25:01 | 43.96 | 38.06 | 1,166 | 2.03 | 0.25 | 63.8 |
| 5/3/2015 23:25:01 | 44.29 | 38.39 | 1,166 | 2.02 | 0.25 | 63.8 |
| 5/3/2015 23:25:01 | 44.62 | 38.72 | 1,166 | 2.02 | 0.25 | 63.8 |
| 5/3/2015 23:25:01 | 44.95 | 39.05 | 1,327 | 2.01 | 0.25 | 72.5 |
| 5/3/2015 23:25:01 | 45.28 | 39.38 | 1,327 | 2.01 | 0.25 | 72.5 |
| 5/3/2015 23:25:02 | 45.60 | 39.70 | 1,327 | 2.00 | 0.25 | 72.5 |
| 5/3/2015 23:25:02 | 45.93 | 40.03 | 1,327 | 2.00 | 0.25 | 72.5 |
| 5/3/2015 23:25:02 | 46.26 | 40.36 | 1,322 | 2.06 | 0.25 | 72.3 |
| 5/3/2015 23:25:03 | 46.59 | 40.69 | 1,322 | 2.06 | 0.25 | 72.3 |
| 5/3/2015 23:25:23 | 46.92 | 41.02 | 0 | 2.71 | 1.33 | 0.0 |
| 5/3/2015 23:25:25 | 47.24 | 41.34 | 163 | 3.03 | 1.55 | 8.9 |
| 5/3/2015 23:25:32 | 47.57 | 41.67 | 61 | 1.98 | 1.41 | 3.3 |
| 5/3/2015 23:25:33 | 47.90 | 42.00 | 215 | 2.55 | 1.63 | 11.8 |
| 5/3/2015 23:25:34 | 48.23 | 42.33 | 337 | 2.36 | 1.61 | 18.4 |
| 5/3/2015 23:25:36 | 48.56 | 42.66 | 284 | 3.01 | 1.94 | 15.5 |
| 5/3/2015 23:25:42 | 48.88 | 42.98 | 60 | 2.82 | 1.74 | 3.3 |
| 5/3/2015 23:25:43 | 49.21 | 43.31 | 171 | 2.46 | 1.59 | 9.3 |
| 5/3/2015 23:25:44 | 49.54 | 43.64 | 248 | 2.33 | 1.70 | 13.6 |
| 5/3/2015 23:25:45 | 49.87 | 43.97 | 330 | 2.71 | 1.36 | 18.1 |
| 5/3/2015 23:25:45 | 50.20 | 44.30 | 370 | 2.52 | 1.37 | 20.3 |
| 5/3/2015 23:25:46 | 50.53 | 44.63 | 432 | 2.40 | 1.23 | 23.6 |
| 5/3/2015 23:25:53 | 50.85 | 44.95 | 95 | 2.76 | 1.93 | 5.2 |
| 5/3/2015 23:25:54 | 51.18 | 45.28 | 131 | 2.85 | 1.58 | 7.1 |
| 5/3/2015 23:25:55 | 51.51 | 45.61 | 199 | 2.55 | 1.43 | 10.9 |
| 5/3/2015 23:25:55 | 51.84 | 45.94 | 337 | 1.87 | 1.34 | 18.4 |
| 5/3/2015 23:25:56 | 52.17 | 46.27 | 529 | 2.84 | 1.48 | 28.9 |
| 5/3/2015 23:25:58 | 52.49 | 46.59 | 226 | 2.86 | 1.57 | 12.4 |
| 5/3/2015 23:26:04 | 52.82 | 46.92 | 44 | 2.50 | 1.44 | 2.4 |
| 5/3/2015 23:26:04 | 53.15 | 47.25 | 173 | 2.88 | 1.54 | 9.4 |
| 5/3/2015 23:26:42 | 53.48 | 47.58 | 23 | 2.80 | 1.36 | 1.3 |
| 5/3/2015 23:26:46 | 53.81 | 47.91 | 17 | 2.47 | 1.55 | 1.0 |
| 5/3/2015 23:26:46 | 54.13 | 48.23 | 126 | 2.17 | 1.21 | 6.9 |
| 5/3/2015 23:26:47 | 54.46 | 48.56 | 390 | 1.99 | 0.91 | 21.3 |
| 5/3/2015 23:26:48 | 54.79 | 48.89 | 390 | 1.99 | 0.91 | 21.3 |
| 5/3/2015 23:26:48 | 55.12 | 49.22 | 558 | 2.21 | 1.08 | 30.5 |
| 5/3/2015 23:26:48 | 55.45 | 49.55 | 684 | 2.17 | 1.11 | 37.4 |
| 5/3/2015 23:26:49 | 55.77 | 49.87 | 702 | 2.06 | 1.03 | 38.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 23:26:49 | 56.10 | 50.20 | 713 | 1.99 | 0.92 | 39.0 |
| 5/3/2015 | 23:26:50 | 56.43 | 50.53 | 781 | 1.66 | 0.76 | 42.7 |
| 5/3/2015 | 23:26:51 | 56.76 | 50.86 | 781 | 1.66 | 0.76 | 42.7 |
| 5/3/2015 | 23:26:51 | 57.09 | 51.19 | 790 | 2.22 | 0.90 | 43.2 |
| 5/3/2015 | 23:26:52 | 57.41 | 51.51 | 752 | 2.30 | 1.11 | 41.1 |
| 5/3/2015 | 23:26:53 | 57.74 | 51.84 | 543 | 2.42 | 1.23 | 29.7 |
| 5/3/2015 | 23:26:54 | 58.07 | 52.17 | 432 | 2.45 | 1.21 | 23.6 |
| 5/3/2015 | 23:26:58 | 58.40 | 52.50 | 64 | 2.44 | 1.19 | 3.5 |
| 5/3/2015 | 23:27:00 | 58.73 | 52.83 | 142 | 2.57 | 1.27 | 7.7 |
| 5/3/2015 | 23:27:02 | 59.06 | 53.16 | 173 | 2.50 | 1.48 | 9.5 |
| 5/3/2015 | 23:27:05 | 59.38 | 53.48 | 136 | 2.50 | 1.54 | 7.4 |
| 5/3/2015 | 23:27:08 | 59.71 | 53.81 | 98 | 2.48 | 1.56 | 5.4 |
| 5/3/2015 | 23:28:04 | 60.04 | 54.14 | 0 | 2.82 | 1.33 | 0.0 |
| 5/3/2015 | 23:28:13 | 60.37 | 54.47 | 35 | 2.84 | 1.13 | 1.9 |
| 5/3/2015 | 23:28:19 | 60.69 | 54.79 | 56 | 2.73 | 1.08 | 3.1 |

## P1009 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/3/2015 23:21:58

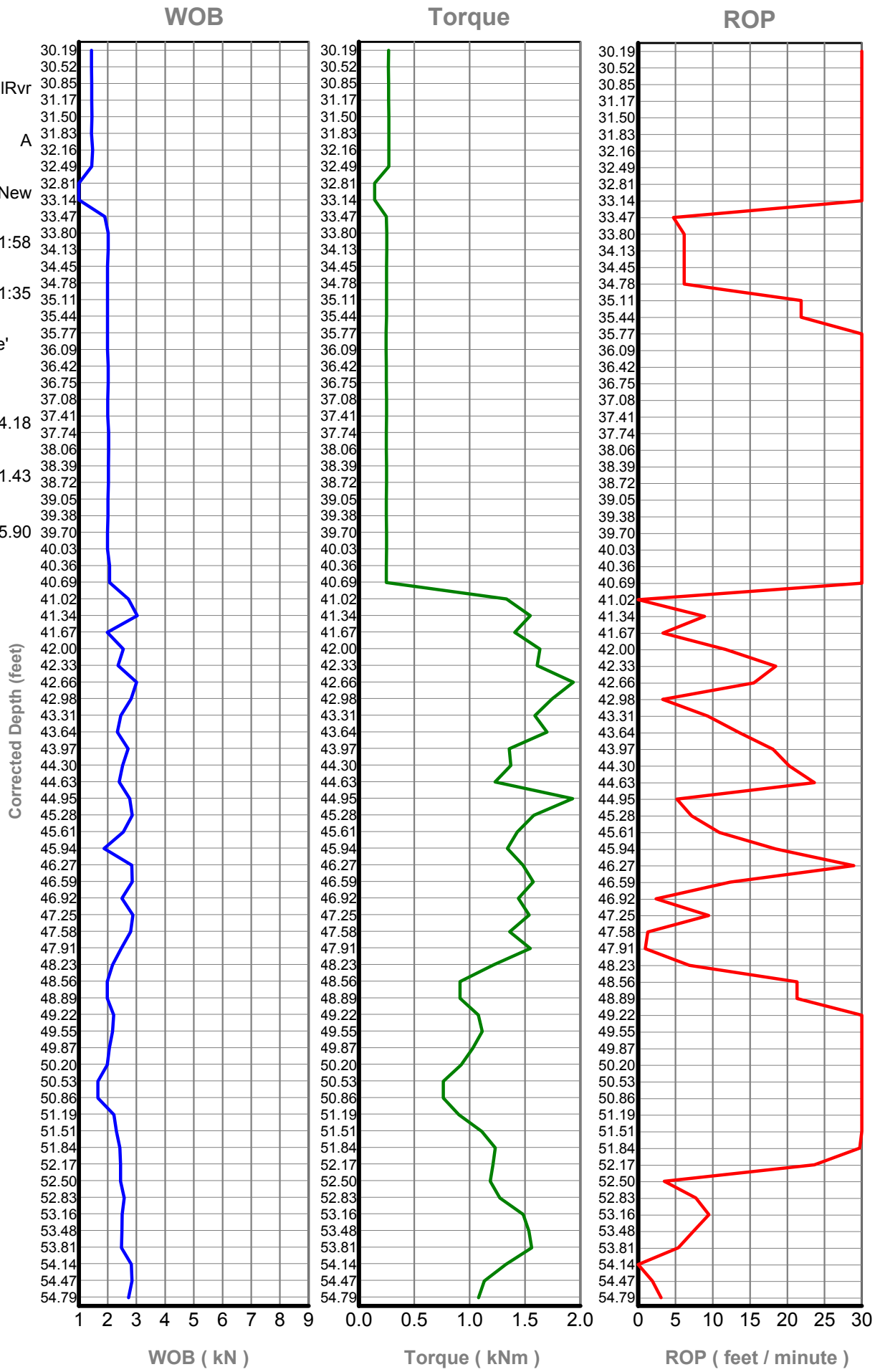
**End Date:**
5/3/2015 23:41:35

**Operator Note:**
'5.9 5.6 a Auto Complete'

**Northing:**
349,084.18

**Easting:**
224,191.43

**Tide (feet):**
5.90



## Hole: P101 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 9:59:34 | 34.12 | 30.22 | 1,249 | 0.28 | 0.38 | 68.3 |
| 5/3/2015 9:59:34 | 34.45 | 30.55 | 1,252 | 0.28 | 0.39 | 68.4 |
| 5/3/2015 9:59:35 | 34.78 | 30.88 | 1,249 | 0.28 | 0.40 | 68.3 |
| 5/3/2015 9:59:35 | 35.11 | 31.21 | 1,249 | 0.28 | 0.40 | 68.3 |
| 5/3/2015 9:59:35 | 35.43 | 31.53 | 1,246 | 0.28 | 0.38 | 68.1 |
| 5/3/2015 9:59:36 | 35.76 | 31.86 | 1,246 | 0.28 | 0.38 | 68.1 |
| 5/3/2015 9:59:36 | 36.09 | 32.19 | 1,239 | 0.28 | 0.37 | 67.7 |
| 5/3/2015 9:59:37 | 36.42 | 32.52 | 1,239 | 0.28 | 0.37 | 67.7 |
| 5/3/2015 9:59:36 | 36.75 | 32.85 | 1,218 | 0.29 | 0.37 | 66.6 |
| 5/3/2015 9:59:37 | 37.07 | 33.17 | 1,218 | 0.29 | 0.37 | 66.6 |
| 5/3/2015 9:59:37 | 37.40 | 33.50 | 1,218 | 0.29 | 0.40 | 66.6 |
| 5/3/2015 9:59:37 | 37.73 | 33.83 | 1,218 | 0.29 | 0.40 | 66.6 |
| 5/3/2015 9:59:38 | 38.06 | 34.16 | 1,236 | 0.29 | 0.37 | 67.6 |
| 5/3/2015 9:59:38 | 38.39 | 34.49 | 1,215 | 0.29 | 0.37 | 66.4 |
| 5/3/2015 9:59:38 | 38.71 | 34.81 | 1,215 | 0.29 | 0.37 | 66.4 |
| 5/3/2015 9:59:39 | 39.04 | 35.14 | 1,215 | 0.29 | 0.37 | 66.4 |
| 5/3/2015 9:59:39 | 39.37 | 35.47 | 1,215 | 0.29 | 0.37 | 66.4 |
| 5/3/2015 9:59:39 | 39.70 | 35.80 | 1,218 | 0.29 | 0.39 | 66.6 |
| 5/3/2015 9:59:40 | 40.03 | 36.13 | 1,218 | 0.29 | 0.39 | 66.6 |
| 5/3/2015 9:59:40 | 40.35 | 36.45 | 1,218 | 0.29 | 0.38 | 66.6 |
| 5/3/2015 9:59:40 | 40.68 | 36.78 | 1,218 | 0.29 | 0.38 | 66.6 |
| 5/3/2015 9:59:40 | 41.01 | 37.11 | 1,229 | 0.29 | 0.37 | 67.2 |
| 5/3/2015 9:59:41 | 41.34 | 37.44 | 1,263 | 0.27 | 0.39 | 69.1 |
| 5/3/2015 9:59:41 | 41.67 | 37.77 | 1,263 | 0.27 | 0.39 | 69.1 |
| 5/3/2015 9:59:41 | 41.99 | 38.09 | 1,213 | 0.25 | 0.48 | 66.3 |
| 5/3/2015 9:59:53 | 42.32 | 38.42 | 0 | 2.08 | 0.39 | 0.0 |
| 5/3/2015 9:59:53 | 42.65 | 38.75 | 146 | 1.91 | 0.37 | 8.0 |
| 5/3/2015 9:59:54 | 42.98 | 39.08 | 146 | 5.06 | 0.45 | 8.0 |
| 5/3/2015 9:59:54 | 43.31 | 39.41 | 346 | 4.39 | 0.47 | 18.9 |
| 5/3/2015 9:59:59 | 43.64 | 39.74 | 29 | 3.11 | 0.35 | 1.6 |
| 5/3/2015 10:00:00 | 43.96 | 40.06 | 29 | 3.11 | 0.35 | 1.6 |
| 5/3/2015 10:00:00 | 44.29 | 40.39 | 185 | 1.79 | 0.36 | 10.1 |
| 5/3/2015 10:00:00 | 44.62 | 40.72 | 433 | 1.85 | 0.25 | 23.7 |
| 5/3/2015 10:00:05 | 44.95 | 41.05 | 66 | 1.77 | 0.36 | 3.6 |
| 5/3/2015 10:00:06 | 45.28 | 41.38 | 66 | 1.77 | 0.36 | 3.6 |
| 5/3/2015 10:00:06 | 45.60 | 41.70 | 324 | 1.79 | 0.39 | 17.7 |
| 5/3/2015 10:00:06 | 45.93 | 42.03 | 324 | 1.79 | 0.39 | 17.7 |
| 5/3/2015 10:00:06 | 46.26 | 42.36 | 572 | 1.77 | 0.37 | 31.3 |
| 5/3/2015 10:00:07 | 46.59 | 42.69 | 572 | 1.77 | 0.37 | 31.3 |
| 5/3/2015 10:00:07 | 46.92 | 43.02 | 817 | 1.79 | 0.38 | 44.7 |
| 5/3/2015 10:00:07 | 47.24 | 43.34 | 1,066 | 1.79 | 0.37 | 58.3 |
| 5/3/2015 10:00:08 | 47.57 | 43.67 | 1,066 | 1.79 | 0.37 | 58.3 |
| 5/3/2015 10:00:08 | 47.90 | 44.00 | 1,259 | 1.79 | 0.38 | 68.9 |
| 5/3/2015 10:00:08 | 48.23 | 44.33 | 1,259 | 1.79 | 0.38 | 68.9 |
| 5/3/2015 10:00:08 | 48.56 | 44.66 | 1,246 | 2.29 | 0.40 | 68.1 |
| 5/3/2015 10:00:09 | 48.88 | 44.98 | 1,246 | 2.29 | 0.40 | 68.1 |
| 5/3/2015 10:00:11 | 49.21 | 45.31 | 327 | 2.46 | 0.44 | 17.9 |
| 5/3/2015 10:00:12 | 49.54 | 45.64 | 175 | 3.92 | 0.47 | 9.6 |
| 5/3/2015 10:00:14 | 49.87 | 45.97 | 239 | 3.38 | 0.46 | 13.0 |
| 5/3/2015 10:00:22 | 50.20 | 46.30 | 67 | 3.31 | 0.46 | 3.6 |
| 5/3/2015 10:00:27 | 50.53 | 46.63 | 71 | 3.96 | 0.49 | 3.9 |
| 5/3/2015 10:00:38 | 50.85 | 46.95 | 23 | 2.87 | 0.49 | 1.3 |
| 5/3/2015 10:00:50 | 51.18 | 47.28 | 26 | 2.88 | 0.47 | 1.4 |
| 5/3/2015 10:01:04 | 51.46 | 47.56 | 23 | 2.69 | 0.47 | 1.3 |

## P101 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 9:57:58

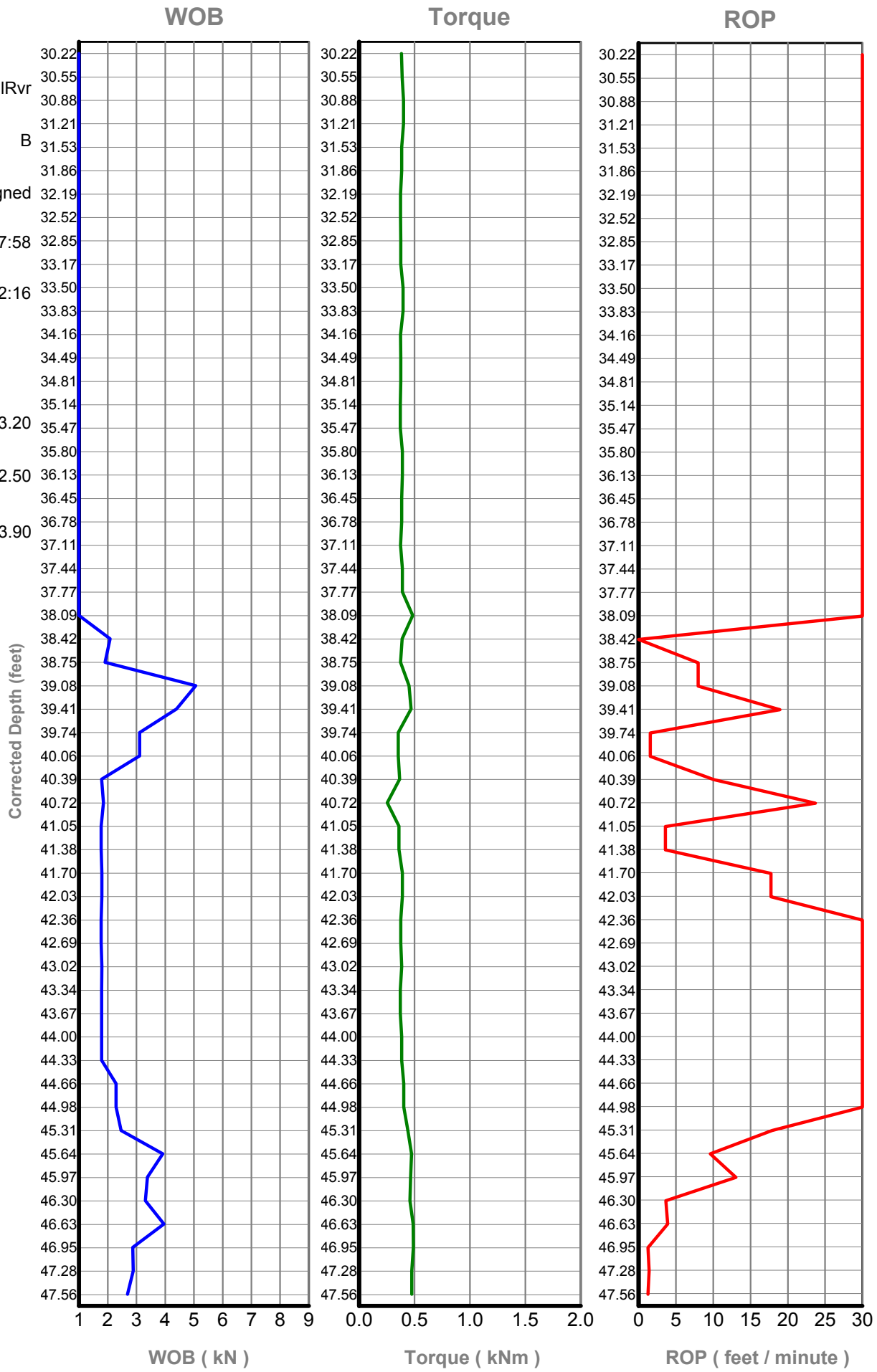
**End Date:**
5/3/2015 10:02:16

**Operator Note:**
'3.9 3.8 b Rock'

**Northing:**
349,173.20

**Easting:**
224,762.50

**Tide (feet):**
3.90



## Hole: P1010 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:23:57 | 36.09 | 30.19 | 1,020 | 0.39 | 0.40 | 55.8 |
| 5/3/2015 23:23:58 | 36.42 | 30.52 | 1,020 | 0.39 | 0.40 | 55.8 |
| 5/3/2015 23:23:58 | 36.75 | 30.85 | 1,012 | 0.39 | 0.40 | 55.3 |
| 5/3/2015 23:23:58 | 37.07 | 31.17 | 1,021 | 0.39 | 0.39 | 55.8 |
| 5/3/2015 23:23:59 | 37.40 | 31.50 | 994 | 0.39 | 0.40 | 54.4 |
| 5/3/2015 23:23:59 | 37.73 | 31.83 | 994 | 0.39 | 0.40 | 54.4 |
| 5/3/2015 23:23:59 | 38.06 | 32.16 | 980 | 0.39 | 0.40 | 53.6 |
| 5/3/2015 23:24:00 | 38.39 | 32.49 | 980 | 0.41 | 0.40 | 53.6 |
| 5/3/2015 23:24:00 | 38.71 | 32.81 | 980 | 0.41 | 0.40 | 53.6 |
| 5/3/2015 23:24:00 | 39.04 | 33.14 | 977 | 0.39 | 0.39 | 53.4 |
| 5/3/2015 23:24:01 | 39.37 | 33.47 | 977 | 0.39 | 0.39 | 53.4 |
| 5/3/2015 23:24:01 | 39.70 | 33.80 | 977 | 0.39 | 0.39 | 53.4 |
| 5/3/2015 23:24:01 | 40.03 | 34.13 | 986 | 0.39 | 0.40 | 53.9 |
| 5/3/2015 23:24:02 | 40.35 | 34.45 | 983 | 0.39 | 0.40 | 53.8 |
| 5/3/2015 23:24:02 | 40.68 | 34.78 | 983 | 0.39 | 0.40 | 53.8 |
| 5/3/2015 23:24:02 | 41.01 | 35.11 | 983 | 0.39 | 0.40 | 53.8 |
| 5/3/2015 23:24:03 | 41.34 | 35.44 | 996 | 0.39 | 0.40 | 54.5 |
| 5/3/2015 23:24:04 | 41.67 | 35.77 | 996 | 0.39 | 0.40 | 54.5 |
| 5/3/2015 23:24:03 | 41.99 | 36.09 | 989 | 0.39 | 0.40 | 54.1 |
| 5/3/2015 23:24:04 | 42.32 | 36.42 | 989 | 0.39 | 0.39 | 54.1 |
| 5/3/2015 23:24:05 | 42.65 | 36.75 | 989 | 0.39 | 0.39 | 54.1 |
| 5/3/2015 23:24:04 | 42.98 | 37.08 | 1,008 | 0.39 | 0.40 | 55.1 |
| 5/3/2015 23:24:05 | 43.31 | 37.41 | 1,019 | 0.39 | 0.40 | 55.7 |
| 5/3/2015 23:24:06 | 43.64 | 37.74 | 1,019 | 0.39 | 0.40 | 55.7 |
| 5/3/2015 23:24:06 | 43.96 | 38.06 | 1,014 | 0.39 | 0.40 | 55.4 |
| 5/3/2015 23:24:06 | 44.29 | 38.39 | 989 | 0.39 | 0.40 | 54.1 |
| 5/3/2015 23:24:07 | 44.62 | 38.72 | 989 | 0.39 | 0.40 | 54.1 |
| 5/3/2015 23:24:07 | 44.95 | 39.05 | 989 | 0.39 | 0.40 | 54.1 |
| 5/3/2015 23:24:07 | 45.28 | 39.38 | 1,013 | 0.41 | 0.40 | 55.4 |
| 5/3/2015 23:24:08 | 45.60 | 39.70 | 981 | 0.39 | 0.40 | 53.7 |
| 5/3/2015 23:24:08 | 45.93 | 40.03 | 981 | 0.39 | 0.40 | 53.7 |
| 5/3/2015 23:24:08 | 46.26 | 40.36 | 981 | 0.39 | 0.39 | 53.7 |
| 5/3/2015 23:24:09 | 46.59 | 40.69 | 986 | 0.39 | 0.40 | 53.9 |
| 5/3/2015 23:24:09 | 46.92 | 41.02 | 986 | 0.39 | 0.40 | 53.9 |
| 5/3/2015 23:24:09 | 47.24 | 41.34 | 992 | 0.37 | 0.43 | 54.3 |
| 5/3/2015 23:24:15 | 47.57 | 41.67 | 0 | 5.16 | 0.46 | 0.0 |
| 5/3/2015 23:24:17 | 47.90 | 42.00 | 146 | 4.73 | 0.45 | 8.0 |
| 5/3/2015 23:24:25 | 48.23 | 42.33 | 23 | 6.18 | 0.47 | 1.3 |
| 5/3/2015 23:24:28 | 48.56 | 42.66 | 160 | 3.64 | 0.44 | 8.8 |
| 5/3/2015 23:24:29 | 48.88 | 42.98 | 258 | 3.58 | 0.47 | 14.1 |
| 5/3/2015 23:24:32 | 49.21 | 43.31 | 127 | 4.94 | 0.47 | 6.9 |
| 5/3/2015 23:24:40 | 49.54 | 43.64 | 50 | 4.51 | 0.45 | 2.7 |
| 5/3/2015 23:24:49 | 49.87 | 43.97 | 9 | 4.49 | 0.46 | 0.5 |
| 5/3/2015 23:24:50 | 50.20 | 44.30 | 126 | 3.90 | 0.45 | 6.9 |
| 5/3/2015 23:24:51 | 50.53 | 44.63 | 205 | 3.02 | 0.43 | 11.2 |
| 5/3/2015 23:24:52 | 50.85 | 44.95 | 316 | 3.34 | 0.42 | 17.3 |
| 5/3/2015 23:24:52 | 51.18 | 45.28 | 402 | 4.47 | 0.44 | 22.0 |
| 5/3/2015 23:24:53 | 51.51 | 45.61 | 481 | 3.99 | 0.45 | 26.3 |
| 5/3/2015 23:24:54 | 51.84 | 45.94 | 390 | 5.04 | 0.41 | 21.3 |
| 5/3/2015 23:24:55 | 52.17 | 46.27 | 345 | 3.09 | 0.42 | 18.8 |
| 5/3/2015 23:25:20 | 52.49 | 46.59 | 0 | 5.96 | 0.44 | 0.0 |
| 5/3/2015 23:25:22 | 52.82 | 46.92 | 15 | 1.95 | 0.37 | 0.8 |
| 5/3/2015 23:25:41 | 53.15 | 47.25 | 79 | 6.22 | 0.47 | 4.3 |
| 5/3/2015 23:25:43 | 53.48 | 47.58 | 166 | 6.19 | 0.48 | 9.1 |
| 5/3/2015 23:25:55 | 53.81 | 47.91 | 32 | 6.25 | 0.48 | 1.7 |
| 5/3/2015 23:26:02 | 54.13 | 48.23 | 111 | 5.93 | 0.45 | 6.0 |
| 5/3/2015 23:26:03 | 54.46 | 48.56 | 156 | 3.48 | 0.43 | 8.5 |
| 5/3/2015 23:26:03 | 54.79 | 48.89 | 232 | 2.57 | 0.42 | 12.7 |
| 5/3/2015 23:26:04 | 55.12 | 49.22 | 420 | 2.85 | 0.42 | 22.9 |
| 5/3/2015 23:26:05 | 55.45 | 49.55 | 514 | 2.25 | 0.41 | 28.1 |
| 5/3/2015 23:26:05 | 55.77 | 49.87 | 634 | 2.47 | 0.42 | 34.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 23:26:06 | 56.10 | 50.20 | 657 | 2.48 | 0.42 | 35.9 |
| 5/3/2015 | 23:26:06 | 56.43 | 50.53 | 648 | 2.52 | 0.43 | 35.4 |
| 5/3/2015 | 23:26:07 | 56.76 | 50.86 | 686 | 2.51 | 0.42 | 37.5 |
| 5/3/2015 | 23:26:07 | 57.09 | 51.19 | 686 | 2.61 | 0.44 | 37.5 |
| 5/3/2015 | 23:26:08 | 57.41 | 51.51 | 685 | 2.59 | 0.43 | 37.5 |
| 5/3/2015 | 23:26:08 | 57.74 | 51.84 | 639 | 2.62 | 0.43 | 34.9 |
| 5/3/2015 | 23:26:10 | 58.07 | 52.17 | 567 | 3.24 | 0.44 | 31.0 |
| 5/3/2015 | 23:26:10 | 58.40 | 52.50 | 538 | 2.60 | 0.43 | 29.4 |
| 5/3/2015 | 23:26:11 | 58.73 | 52.83 | 515 | 2.79 | 0.44 | 28.1 |
| 5/3/2015 | 23:26:12 | 59.06 | 53.16 | 445 | 3.43 | 0.44 | 24.3 |
| 5/3/2015 | 23:26:13 | 59.38 | 53.48 | 419 | 2.80 | 0.44 | 22.9 |
| 5/3/2015 | 23:26:13 | 59.71 | 53.81 | 416 | 2.72 | 0.44 | 22.8 |
| 5/3/2015 | 23:26:14 | 60.04 | 54.14 | 429 | 2.94 | 0.45 | 23.4 |
| 5/3/2015 | 23:26:24 | 60.37 | 54.47 | 0 | 2.99 | 0.44 | 0.0 |
| 5/3/2015 | 23:26:25 | 60.66 | 54.76 | 106 | 3.22 | 0.48 | 5.8 |

## P1010 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/3/2015 23:22:18

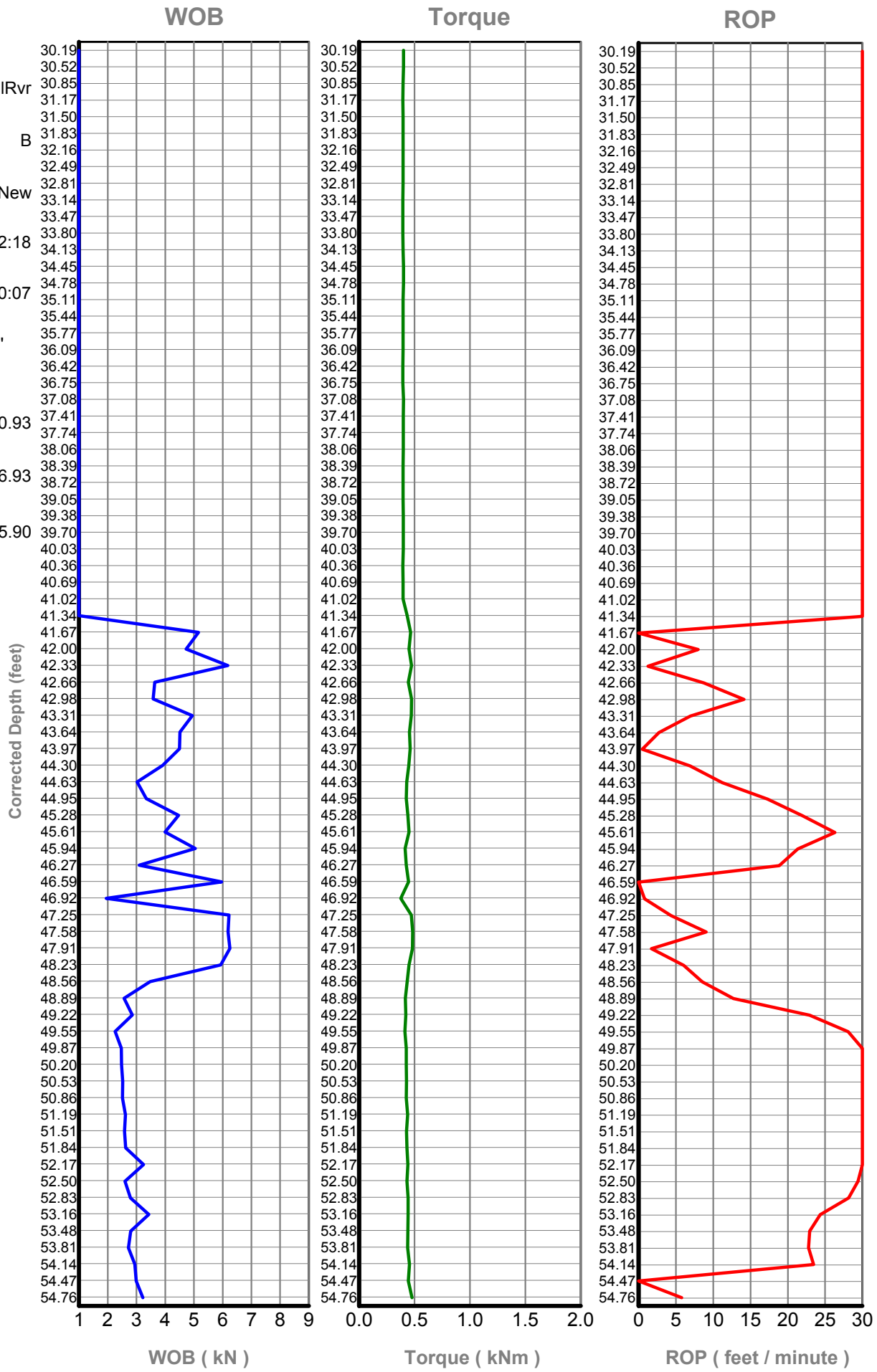
**End Date:**
5/3/2015 23:30:07

**Operator Note:**
'5.9 5.6b Auto Complete'

**Northing:**
349,120.93

**Easting:**
224,256.93

**Tide (feet):**
5.90



## Hole: P1011 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:22:13 | 36.09 | 30.19 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 23:22:13 | 36.42 | 30.52 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 23:22:14 | 36.75 | 30.85 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 23:22:14 | 37.07 | 31.17 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:14 | 37.40 | 31.50 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:15 | 37.73 | 31.83 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:15 | 38.06 | 32.16 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 23:22:15 | 38.39 | 32.49 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 23:22:16 | 38.71 | 32.81 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 23:22:16 | 39.04 | 33.14 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 23:22:17 | 39.37 | 33.47 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 23:22:16 | 39.70 | 33.80 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 23:22:17 | 40.03 | 34.13 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 23:22:18 | 40.35 | 34.45 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 23:22:18 | 40.68 | 34.78 | 1,098 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:18 | 41.01 | 35.11 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 23:22:19 | 41.34 | 35.44 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 23:22:19 | 41.67 | 35.77 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:19 | 41.99 | 36.09 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 23:22:19 | 42.32 | 36.42 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 23:22:20 | 42.65 | 36.75 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 23:22:20 | 42.98 | 37.08 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 23:22:20 | 43.31 | 37.41 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 23:22:21 | 43.64 | 37.74 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 23:22:21 | 43.96 | 38.06 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 23:22:21 | 44.29 | 38.39 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 23:22:22 | 44.62 | 38.72 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 23:22:22 | 44.95 | 39.05 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 23:22:22 | 45.28 | 39.38 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 23:22:23 | 45.60 | 39.70 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 23:22:23 | 45.93 | 40.03 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 23:22:23 | 46.26 | 40.36 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 23:22:24 | 46.59 | 40.69 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 23:22:24 | 46.92 | 41.02 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 23:22:24 | 47.24 | 41.34 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 23:22:24 | 47.57 | 41.67 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 23:22:25 | 47.90 | 42.00 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 23:22:25 | 48.23 | 42.33 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 23:22:36 | 48.56 | 42.66 | 54 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 23:23:02 | 48.88 | 42.98 | 9 | 1.14 | 0.29 | 0.5 |
| 5/3/2015 23:23:05 | 49.21 | 43.31 | 48 | 1.14 | 0.29 | 2.6 |
| 5/3/2015 23:23:06 | 49.54 | 43.64 | 168 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 23:23:17 | 49.87 | 43.97 | 67 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 23:23:18 | 50.20 | 44.30 | 165 | 1.14 | 0.29 | 9.0 |
| 5/3/2015 23:23:19 | 50.53 | 44.63 | 265 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 23:23:58 | 50.85 | 44.95 | 43 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 23:24:06 | 51.18 | 45.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:24:08 | 51.51 | 45.61 | 147 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 23:24:09 | 51.84 | 45.94 | 266 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 23:24:25 | 52.17 | 46.27 | 80 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 23:24:26 | 52.49 | 46.59 | 183 | 1.14 | 0.29 | 10.0 |
| 5/3/2015 23:24:39 | 52.82 | 46.92 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:24:41 | 53.15 | 47.25 | 141 | 1.14 | 0.29 | 7.7 |
| 5/3/2015 23:24:43 | 53.48 | 47.58 | 229 | 1.14 | 0.29 | 12.5 |
| 5/3/2015 23:24:55 | 53.81 | 47.91 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 23:25:11 | 54.13 | 48.23 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:25:13 | 54.46 | 48.56 | 128 | 1.14 | 0.29 | 7.0 |
| 5/3/2015 23:25:56 | 54.79 | 48.89 | 3 | 1.14 | 0.29 | 0.1 |
| 5/3/2015 23:26:22 | 55.12 | 49.22 | 23 | 1.14 | 0.29 | 1.2 |
| 5/3/2015 23:26:32 | 55.45 | 49.55 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 23:26:38 | 55.77 | 49.87 | 55 | 1.14 | 0.29 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 23:26:52 | 56.10 | 50.20 | 67 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 | 23:26:57 | 56.43 | 50.53 | 67 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 | 23:27:02 | 56.76 | 50.86 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 | 23:27:06 | 57.09 | 51.19 | 89 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 | 23:27:13 | 57.41 | 51.51 | 65 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 | 23:27:17 | 57.74 | 51.84 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 | 23:27:22 | 58.07 | 52.17 | 74 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 | 23:27:27 | 58.40 | 52.50 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 | 23:27:30 | 58.73 | 52.83 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 23:27:34 | 59.06 | 53.16 | 92 | 1.14 | 0.29 | 5.0 |
| 5/3/2015 | 23:27:39 | 59.38 | 53.48 | 81 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 | 23:27:43 | 59.71 | 53.81 | 81 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 | 23:27:48 | 60.04 | 54.14 | 81 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 | 23:27:52 | 60.37 | 54.47 | 89 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 | 23:27:54 | 60.61 | 54.71 | 85 | 1.14 | 0.29 | 4.6 |

## P1011 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/3/2015 23:20:34

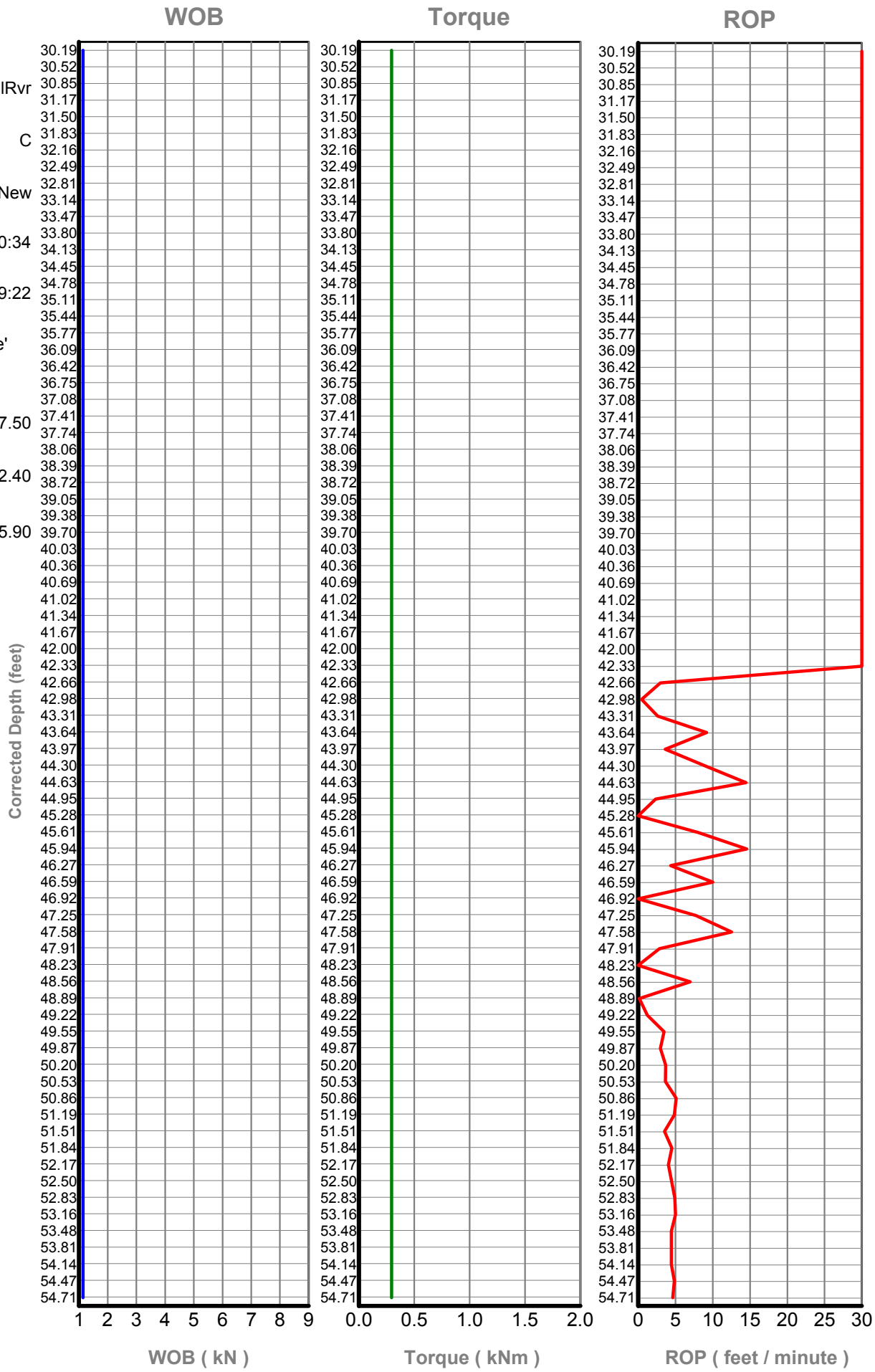
**End Date:**
5/3/2015 23:29:22

**Operator Note:**
'5.9 5.6 c Auto Complete'

**Northing:**
349,157.50

**Easting:**
224,322.40

**Tide (feet):**
5.90



## Hole: P1012 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:33:56 | 35.11 | 30.31 | 1,147 | 1.85 | 0.89 | 62.7 |
| 5/3/2015 22:33:56 | 35.43 | 30.63 | 1,147 | 1.85 | 0.89 | 62.7 |
| 5/3/2015 22:33:56 | 35.76 | 30.96 | 1,101 | 1.87 | 0.88 | 60.2 |
| 5/3/2015 22:33:57 | 36.09 | 31.29 | 1,101 | 1.87 | 0.88 | 60.2 |
| 5/3/2015 22:33:57 | 36.42 | 31.62 | 1,109 | 1.83 | 0.88 | 60.6 |
| 5/3/2015 22:33:57 | 36.75 | 31.95 | 1,109 | 1.83 | 0.88 | 60.6 |
| 5/3/2015 22:33:57 | 37.07 | 32.27 | 1,093 | 1.66 | 0.88 | 59.7 |
| 5/3/2015 22:33:58 | 37.40 | 32.60 | 1,098 | 2.04 | 0.89 | 60.1 |
| 5/3/2015 22:33:58 | 37.73 | 32.93 | 1,098 | 2.04 | 0.89 | 60.1 |
| 5/3/2015 22:33:58 | 38.06 | 33.26 | 1,133 | 1.78 | 0.88 | 62.0 |
| 5/3/2015 22:33:59 | 38.39 | 33.59 | 1,160 | 1.86 | 0.88 | 63.4 |
| 5/3/2015 22:33:59 | 38.71 | 33.91 | 1,160 | 1.86 | 0.88 | 63.4 |
| 5/3/2015 22:33:59 | 39.04 | 34.24 | 1,154 | 1.84 | 0.87 | 63.1 |
| 5/3/2015 22:34:00 | 39.37 | 34.57 | 1,154 | 1.84 | 0.87 | 63.1 |
| 5/3/2015 22:34:00 | 39.70 | 34.90 | 1,151 | 1.83 | 0.80 | 62.9 |
| 5/3/2015 22:34:00 | 40.03 | 35.23 | 1,151 | 1.83 | 0.80 | 62.9 |
| 5/3/2015 22:34:00 | 40.35 | 35.55 | 1,191 | 1.83 | 0.80 | 65.1 |
| 5/3/2015 22:34:01 | 40.68 | 35.88 | 1,191 | 1.83 | 0.80 | 65.1 |
| 5/3/2015 22:34:01 | 41.01 | 36.21 | 1,230 | 1.85 | 0.81 | 67.2 |
| 5/3/2015 22:34:01 | 41.34 | 36.54 | 1,243 | 1.91 | 0.24 | 68.0 |
| 5/3/2015 22:34:02 | 41.67 | 36.87 | 1,243 | 1.91 | 0.24 | 68.0 |
| 5/3/2015 22:34:02 | 41.99 | 37.19 | 1,240 | 1.83 | 0.24 | 67.8 |
| 5/3/2015 22:34:02 | 42.32 | 37.52 | 1,240 | 1.83 | 0.24 | 67.8 |
| 5/3/2015 22:34:02 | 42.65 | 37.85 | 1,246 | 1.86 | 0.24 | 68.1 |
| 5/3/2015 22:34:03 | 42.98 | 38.18 | 1,246 | 1.86 | 0.24 | 68.1 |
| 5/3/2015 22:34:03 | 43.31 | 38.51 | 1,246 | 1.83 | 0.24 | 68.1 |
| 5/3/2015 22:34:03 | 43.64 | 38.84 | 1,246 | 1.83 | 0.24 | 68.1 |
| 5/3/2015 22:34:03 | 43.96 | 39.16 | 1,236 | 1.87 | 0.24 | 67.6 |
| 5/3/2015 22:34:04 | 44.29 | 39.49 | 1,234 | 1.83 | 0.24 | 67.5 |
| 5/3/2015 22:34:04 | 44.62 | 39.82 | 1,234 | 1.83 | 0.24 | 67.5 |
| 5/3/2015 22:34:04 | 44.95 | 40.15 | 1,230 | 1.86 | 0.24 | 67.3 |
| 5/3/2015 22:34:05 | 45.28 | 40.48 | 1,230 | 1.86 | 0.24 | 67.3 |
| 5/3/2015 22:34:05 | 45.60 | 40.80 | 1,218 | 2.29 | 0.23 | 66.6 |
| 5/3/2015 22:34:17 | 45.93 | 41.13 | 0 | 1.95 | 1.40 | 0.0 |
| 5/3/2015 22:34:20 | 46.26 | 41.46 | 84 | 2.62 | 1.27 | 4.6 |
| 5/3/2015 22:34:52 | 46.59 | 41.79 | 24 | 2.23 | 1.44 | 1.3 |
| 5/3/2015 22:34:53 | 46.92 | 42.12 | 114 | 2.11 | 1.60 | 6.2 |
| 5/3/2015 22:34:58 | 47.24 | 42.44 | 22 | 2.00 | 1.53 | 1.2 |
| 5/3/2015 22:35:00 | 47.57 | 42.77 | 106 | 1.68 | 1.77 | 5.8 |
| 5/3/2015 22:35:01 | 47.90 | 43.10 | 208 | 1.65 | 1.45 | 11.4 |
| 5/3/2015 22:35:02 | 48.23 | 43.43 | 278 | 1.74 | 1.62 | 15.2 |
| 5/3/2015 22:35:02 | 48.56 | 43.76 | 302 | 1.60 | 0.77 | 16.5 |
| 5/3/2015 22:35:03 | 48.88 | 44.08 | 451 | 2.24 | 0.86 | 24.7 |
| 5/3/2015 22:35:03 | 49.21 | 44.41 | 451 | 2.23 | 1.25 | 24.7 |
| 5/3/2015 22:35:04 | 49.54 | 44.74 | 534 | 2.09 | 1.27 | 29.2 |
| 5/3/2015 22:35:14 | 49.87 | 45.07 | 0 | 1.28 | 1.55 | 0.0 |
| 5/3/2015 22:35:15 | 50.20 | 45.40 | 22 | 1.79 | 1.04 | 1.2 |
| 5/3/2015 22:35:16 | 50.53 | 45.73 | 154 | 1.44 | 1.36 | 8.4 |
| 5/3/2015 22:35:16 | 50.85 | 46.05 | 260 | 1.47 | 0.87 | 14.2 |
| 5/3/2015 22:35:17 | 51.18 | 46.38 | 386 | 1.90 | 0.88 | 21.1 |
| 5/3/2015 22:35:18 | 51.51 | 46.71 | 518 | 2.18 | 1.39 | 28.3 |
| 5/3/2015 22:35:29 | 51.84 | 47.04 | 81 | 1.37 | 1.66 | 4.4 |
| 5/3/2015 22:35:46 | 52.17 | 47.37 | 26 | 2.93 | 1.00 | 1.4 |
| 5/3/2015 22:35:50 | 52.49 | 47.69 | 53 | 3.37 | 1.69 | 2.9 |
| 5/3/2015 22:35:57 | 52.82 | 48.02 | 87 | 3.00 | 1.64 | 4.8 |
| 5/3/2015 22:36:00 | 53.15 | 48.35 | 127 | 2.92 | 1.57 | 6.9 |
| 5/3/2015 22:36:02 | 53.48 | 48.68 | 149 | 2.93 | 1.48 | 8.2 |
| 5/3/2015 22:37:11 | 53.81 | 49.01 | 9 | 2.31 | 1.03 | 0.5 |
| 5/3/2015 22:37:19 | 54.13 | 49.33 | 39 | 2.30 | 1.21 | 2.1 |
| 5/3/2015 22:37:29 | 54.46 | 49.66 | 36 | 2.12 | 1.35 | 2.0 |
| 5/3/2015 22:37:39 | 54.79 | 49.99 | 72 | 2.01 | 1.36 | 3.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 22:37:44 | 55.12 | 50.32 | 68 | 1.92 | 1.13 | 3.7 |
| 5/3/2015 | 22:37:47 | 55.45 | 50.65 | 88 | 1.81 | 1.47 | 4.8 |
| 5/3/2015 | 22:37:50 | 55.77 | 50.97 | 129 | 1.89 | 1.10 | 7.1 |
| 5/3/2015 | 22:37:53 | 56.10 | 51.30 | 99 | 2.02 | 1.57 | 5.4 |
| 5/3/2015 | 22:38:07 | 56.43 | 51.63 | 39 | 1.93 | 1.72 | 2.1 |
| 5/3/2015 | 22:39:26 | 56.76 | 51.96 | 46 | 2.12 | 1.16 | 2.5 |
| 5/3/2015 | 22:39:33 | 57.09 | 52.29 | 63 | 2.29 | 1.15 | 3.5 |
| 5/3/2015 | 22:39:37 | 57.41 | 52.61 | 81 | 2.26 | 1.13 | 4.4 |
| 5/3/2015 | 22:39:43 | 57.74 | 52.94 | 49 | 2.10 | 1.26 | 2.7 |
| 5/3/2015 | 22:39:50 | 58.07 | 53.27 | 34 | 2.14 | 1.06 | 1.9 |
| 5/3/2015 | 22:39:53 | 58.40 | 53.60 | 106 | 2.00 | 1.23 | 5.8 |
| 5/3/2015 | 22:39:59 | 58.73 | 53.93 | 56 | 2.07 | 1.26 | 3.1 |
| 5/3/2015 | 22:40:09 | 59.06 | 54.26 | 28 | 2.47 | 0.89 | 1.5 |
| 5/3/2015 | 22:40:20 | 59.38 | 54.58 | 32 | 2.42 | 1.03 | 1.7 |
| 5/3/2015 | 22:40:32 | 59.69 | 54.89 | 20 | 2.84 | 0.98 | 1.1 |

## P1012 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/3/2015 22:31:32

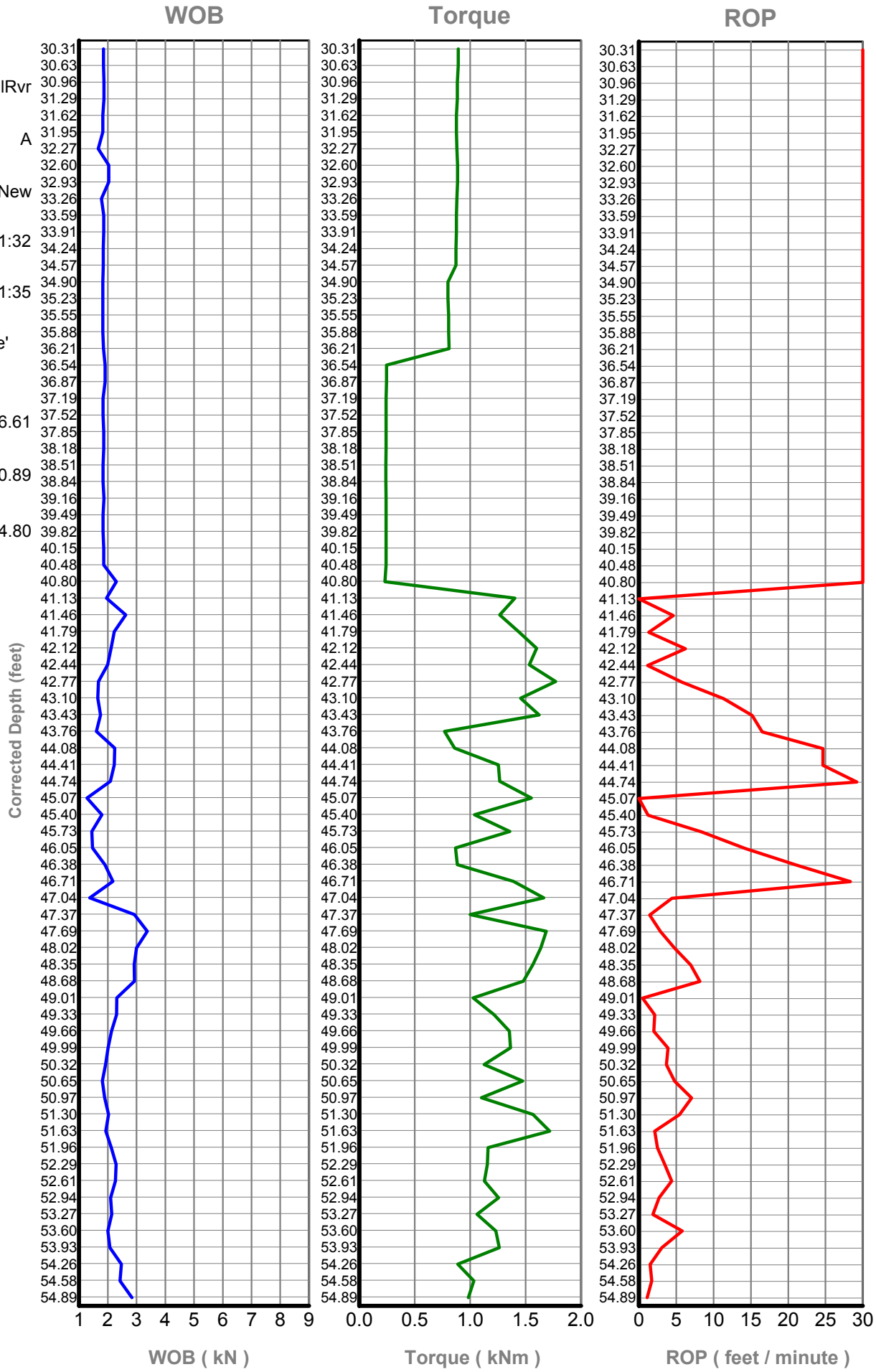
**End Date:**
5/3/2015 22:41:35

**Operator Note:**
'4.8 4.7 a Auto Complete'

**Northing:**
348,956.61

**Easting:**
224,000.89

**Tide (feet):**
4.80



## Hole: P1013 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:34:34 | 35.11 | 30.31 | 1,090 | 0.36 | 0.39 | 59.6 |
| 5/3/2015 22:34:34 | 35.43 | 30.63 | 1,070 | 0.37 | 0.39 | 58.5 |
| 5/3/2015 22:34:35 | 35.76 | 30.96 | 1,070 | 0.37 | 0.39 | 58.5 |
| 5/3/2015 22:34:35 | 36.09 | 31.29 | 1,054 | 0.37 | 0.39 | 57.6 |
| 5/3/2015 22:34:35 | 36.42 | 31.62 | 1,054 | 0.36 | 0.39 | 57.6 |
| 5/3/2015 22:34:36 | 36.75 | 31.95 | 1,054 | 0.36 | 0.39 | 57.6 |
| 5/3/2015 22:34:36 | 37.07 | 32.27 | 1,071 | 0.36 | 0.39 | 58.6 |
| 5/3/2015 22:34:37 | 37.40 | 32.60 | 1,077 | 0.35 | 0.39 | 58.9 |
| 5/3/2015 22:34:37 | 37.73 | 32.93 | 1,077 | 0.35 | 0.39 | 58.9 |
| 5/3/2015 22:34:37 | 38.06 | 33.26 | 1,068 | 0.37 | 0.39 | 58.4 |
| 5/3/2015 22:34:38 | 38.39 | 33.59 | 1,068 | 0.37 | 0.39 | 58.4 |
| 5/3/2015 22:34:38 | 38.71 | 33.91 | 1,086 | 0.36 | 0.39 | 59.4 |
| 5/3/2015 22:34:38 | 39.04 | 34.24 | 1,104 | 0.36 | 0.39 | 60.4 |
| 5/3/2015 22:34:39 | 39.37 | 34.57 | 1,104 | 0.36 | 0.39 | 60.4 |
| 5/3/2015 22:34:39 | 39.70 | 34.90 | 1,087 | 0.37 | 0.39 | 59.4 |
| 5/3/2015 22:34:39 | 40.03 | 35.23 | 1,087 | 0.37 | 0.39 | 59.4 |
| 5/3/2015 22:34:40 | 40.35 | 35.55 | 1,087 | 0.37 | 0.39 | 59.4 |
| 5/3/2015 22:34:40 | 40.68 | 35.88 | 1,075 | 0.37 | 0.39 | 58.8 |
| 5/3/2015 22:34:40 | 41.01 | 36.21 | 1,075 | 0.37 | 0.39 | 58.8 |
| 5/3/2015 22:34:40 | 41.34 | 36.54 | 1,091 | 0.37 | 0.39 | 59.7 |
| 5/3/2015 22:34:41 | 41.67 | 36.87 | 1,088 | 0.36 | 0.39 | 59.5 |
| 5/3/2015 22:34:41 | 41.99 | 37.19 | 1,088 | 0.36 | 0.39 | 59.5 |
| 5/3/2015 22:34:41 | 42.32 | 37.52 | 1,088 | 0.37 | 0.39 | 59.5 |
| 5/3/2015 22:34:42 | 42.65 | 37.85 | 1,082 | 0.37 | 0.39 | 59.2 |
| 5/3/2015 22:34:42 | 42.98 | 38.18 | 1,082 | 0.37 | 0.39 | 59.2 |
| 5/3/2015 22:34:42 | 43.31 | 38.51 | 1,103 | 0.36 | 0.39 | 60.3 |
| 5/3/2015 22:34:43 | 43.64 | 38.84 | 1,103 | 0.36 | 0.39 | 60.3 |
| 5/3/2015 22:34:43 | 43.96 | 39.16 | 1,087 | 0.36 | 0.39 | 59.4 |
| 5/3/2015 22:34:43 | 44.29 | 39.49 | 1,087 | 0.35 | 0.45 | 59.4 |
| 5/3/2015 22:34:50 | 44.62 | 39.82 | 6 | 4.81 | 0.46 | 0.3 |
| 5/3/2015 22:34:53 | 44.95 | 40.15 | 181 | 4.91 | 0.48 | 9.9 |
| 5/3/2015 22:34:55 | 45.28 | 40.48 | 155 | 6.54 | 0.48 | 8.5 |
| 5/3/2015 22:34:57 | 45.60 | 40.80 | 167 | 6.49 | 0.47 | 9.2 |
| 5/3/2015 22:35:00 | 45.93 | 41.13 | 129 | 3.50 | 0.46 | 7.1 |
| 5/3/2015 22:35:02 | 46.26 | 41.46 | 159 | 3.60 | 0.44 | 8.7 |
| 5/3/2015 22:35:04 | 46.59 | 41.79 | 135 | 4.07 | 0.46 | 7.4 |
| 5/3/2015 22:35:11 | 46.92 | 42.12 | 0 | 4.26 | 0.45 | 0.0 |
| 5/3/2015 22:35:14 | 47.24 | 42.44 | 116 | 5.71 | 0.52 | 6.3 |
| 5/3/2015 22:35:25 | 47.57 | 42.77 | 37 | 5.90 | 0.47 | 2.0 |
| 5/3/2015 22:35:26 | 47.90 | 43.10 | 138 | 3.80 | 0.46 | 7.6 |
| 5/3/2015 22:35:38 | 48.23 | 43.43 | 62 | 5.40 | 0.47 | 3.4 |
| 5/3/2015 22:35:40 | 48.56 | 43.76 | 189 | 3.86 | 0.44 | 10.4 |
| 5/3/2015 22:35:41 | 48.88 | 44.08 | 305 | 5.29 | 0.46 | 16.7 |
| 5/3/2015 22:35:42 | 49.21 | 44.41 | 294 | 4.42 | 0.44 | 16.1 |
| 5/3/2015 22:36:12 | 49.54 | 44.74 | 67 | 3.90 | 0.44 | 3.7 |
| 5/3/2015 22:36:12 | 49.87 | 45.07 | 144 | 3.24 | 0.43 | 7.9 |
| 5/3/2015 22:36:27 | 50.20 | 45.40 | 111 | 3.48 | 0.45 | 6.1 |
| 5/3/2015 22:36:28 | 50.53 | 45.73 | 219 | 3.19 | 0.46 | 12.0 |
| 5/3/2015 22:36:44 | 50.85 | 46.05 | 32 | 4.22 | 0.45 | 1.8 |
| 5/3/2015 22:36:46 | 51.18 | 46.38 | 202 | 3.51 | 0.46 | 11.0 |
| 5/3/2015 22:36:48 | 51.51 | 46.71 | 224 | 3.26 | 0.45 | 12.2 |
| 5/3/2015 22:36:49 | 51.84 | 47.04 | 222 | 4.00 | 0.45 | 12.1 |
| 5/3/2015 22:36:51 | 52.17 | 47.37 | 213 | 3.92 | 0.44 | 11.7 |
| 5/3/2015 22:36:53 | 52.49 | 47.69 | 228 | 3.63 | 0.46 | 12.5 |
| 5/3/2015 22:36:55 | 52.82 | 48.02 | 147 | 3.86 | 0.46 | 8.1 |
| 5/3/2015 22:36:57 | 53.15 | 48.35 | 151 | 4.23 | 0.45 | 8.2 |
| 5/3/2015 22:36:59 | 53.48 | 48.68 | 178 | 4.13 | 0.46 | 9.7 |
| 5/3/2015 22:37:16 | 53.81 | 49.01 | 62 | 3.79 | 0.47 | 3.4 |
| 5/3/2015 22:37:38 | 54.13 | 49.33 | 29 | 4.43 | 0.47 | 1.6 |
| 5/3/2015 22:37:43 | 54.46 | 49.66 | 60 | 3.46 | 0.47 | 3.3 |
| 5/3/2015 22:37:48 | 54.79 | 49.99 | 83 | 3.77 | 0.47 | 4.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 22:37:56 | 55.12 | 50.32 | 32 | 3.45 | 0.47 | 1.8 |
| 5/3/2015 | 22:38:06 | 55.45 | 50.65 | 38 | 3.35 | 0.47 | 2.1 |
| 5/3/2015 | 22:38:14 | 55.77 | 50.97 | 49 | 4.00 | 0.46 | 2.7 |

## P1013 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
New

**Start Date:**
5/3/2015 22:32:15

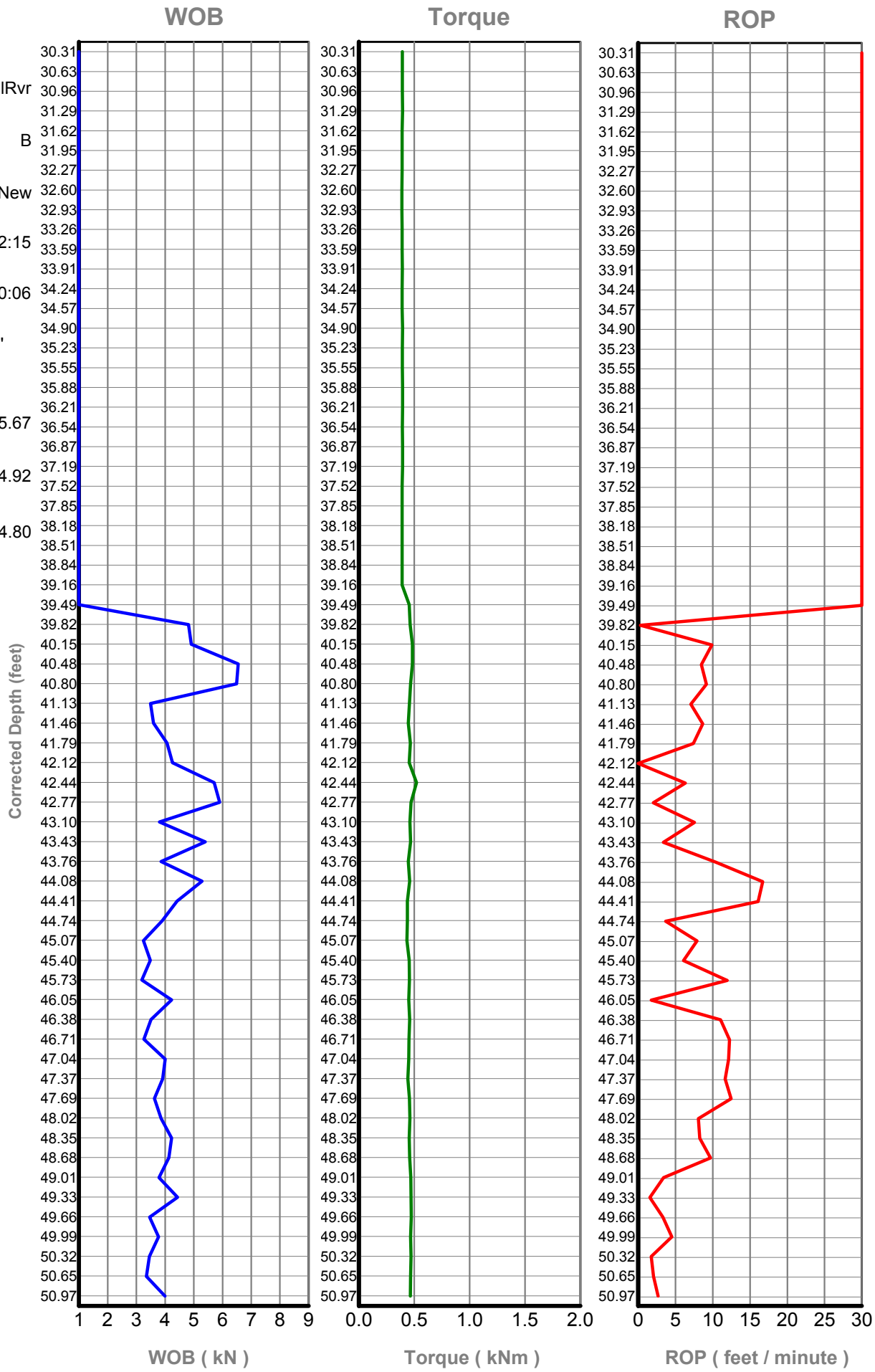
**End Date:**
5/3/2015 22:40:06

**Operator Note:**
'4.8 4.6b Auto Complete'

**Northing:**
348,995.67

**Easting:**
224,064.92

**Tide (feet):**
4.80



## Hole: P1014 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:32:44 | 35.11 | 30.31 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:45 | 35.43 | 30.63 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:45 | 35.76 | 30.96 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:45 | 36.09 | 31.29 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:46 | 36.42 | 31.62 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:46 | 36.75 | 31.95 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:46 | 37.07 | 32.27 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:47 | 37.40 | 32.60 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 22:32:47 | 37.73 | 32.93 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 22:32:47 | 38.06 | 33.26 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 22:32:48 | 38.39 | 33.59 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 22:32:48 | 38.71 | 33.91 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 22:32:48 | 39.04 | 34.24 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 22:32:49 | 39.37 | 34.57 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 22:32:49 | 39.70 | 34.90 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 22:32:49 | 40.03 | 35.23 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:50 | 40.35 | 35.55 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:50 | 40.68 | 35.88 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:50 | 41.01 | 36.21 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:51 | 41.34 | 36.54 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:51 | 41.67 | 36.87 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:51 | 41.99 | 37.19 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:51 | 42.32 | 37.52 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:52 | 42.65 | 37.85 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:52 | 42.98 | 38.18 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 22:32:52 | 43.31 | 38.51 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:53 | 43.64 | 38.84 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:54 | 43.96 | 39.16 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:54 | 44.29 | 39.49 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 22:32:54 | 44.62 | 39.82 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 22:33:16 | 44.95 | 40.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:33:19 | 45.28 | 40.48 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 22:33:24 | 45.60 | 40.80 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:33:25 | 45.93 | 41.13 | 77 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 22:33:26 | 46.26 | 41.46 | 198 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 22:33:46 | 46.59 | 41.79 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:33:47 | 46.92 | 42.12 | 66 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 22:33:50 | 47.24 | 42.44 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 22:33:51 | 47.57 | 42.77 | 265 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 22:33:52 | 47.90 | 43.10 | 351 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 22:33:52 | 48.23 | 43.43 | 453 | 1.14 | 0.29 | 24.8 |
| 5/3/2015 22:34:07 | 48.56 | 43.76 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 22:34:08 | 48.88 | 44.08 | 133 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 22:34:09 | 49.21 | 44.41 | 236 | 1.14 | 0.29 | 12.9 |
| 5/3/2015 22:34:10 | 49.54 | 44.74 | 318 | 1.14 | 0.29 | 17.4 |
| 5/3/2015 22:34:12 | 49.87 | 45.07 | 260 | 1.14 | 0.29 | 14.2 |
| 5/3/2015 22:40:54 | 50.20 | 45.40 | 21 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 22:40:55 | 50.53 | 45.73 | 86 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 22:40:57 | 50.85 | 46.05 | 220 | 1.14 | 0.29 | 12.0 |
| 5/3/2015 22:40:58 | 51.18 | 46.38 | 277 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 22:41:13 | 51.51 | 46.71 | 68 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 22:41:14 | 51.84 | 47.04 | 168 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 22:42:18 | 52.17 | 47.37 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:43:14 | 52.49 | 47.69 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 22:43:22 | 52.82 | 48.02 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:43:23 | 53.15 | 48.35 | 144 | 1.14 | 0.29 | 7.9 |
| 5/3/2015 22:43:25 | 53.48 | 48.68 | 114 | 1.14 | 0.29 | 6.2 |
| 5/3/2015 22:43:26 | 53.81 | 49.01 | 151 | 1.14 | 0.29 | 8.3 |
| 5/3/2015 22:43:28 | 54.13 | 49.33 | 253 | 1.14 | 0.29 | 13.8 |
| 5/3/2015 22:43:30 | 54.46 | 49.66 | 175 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 22:43:32 | 54.79 | 49.99 | 202 | 1.14 | 0.29 | 11.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 22:45:45 | 55.12 | 50.32 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 22:45:47 | 55.45 | 50.65 | 142 | 1.14 | 0.29 | 7.8 |
| 5/3/2015 | 22:46:10 | 55.77 | 50.97 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 22:46:50 | 56.10 | 51.30 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 22:47:34 | 56.43 | 51.63 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 | 22:50:36 | 56.76 | 51.96 | 102 | 1.14 | 0.29 | 5.6 |
| 5/3/2015 | 22:50:44 | 56.97 | 52.17 | 47 | 1.14 | 0.29 | 2.5 |

## P1014 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
New

**Start Date:**
5/3/2015 22:31:27

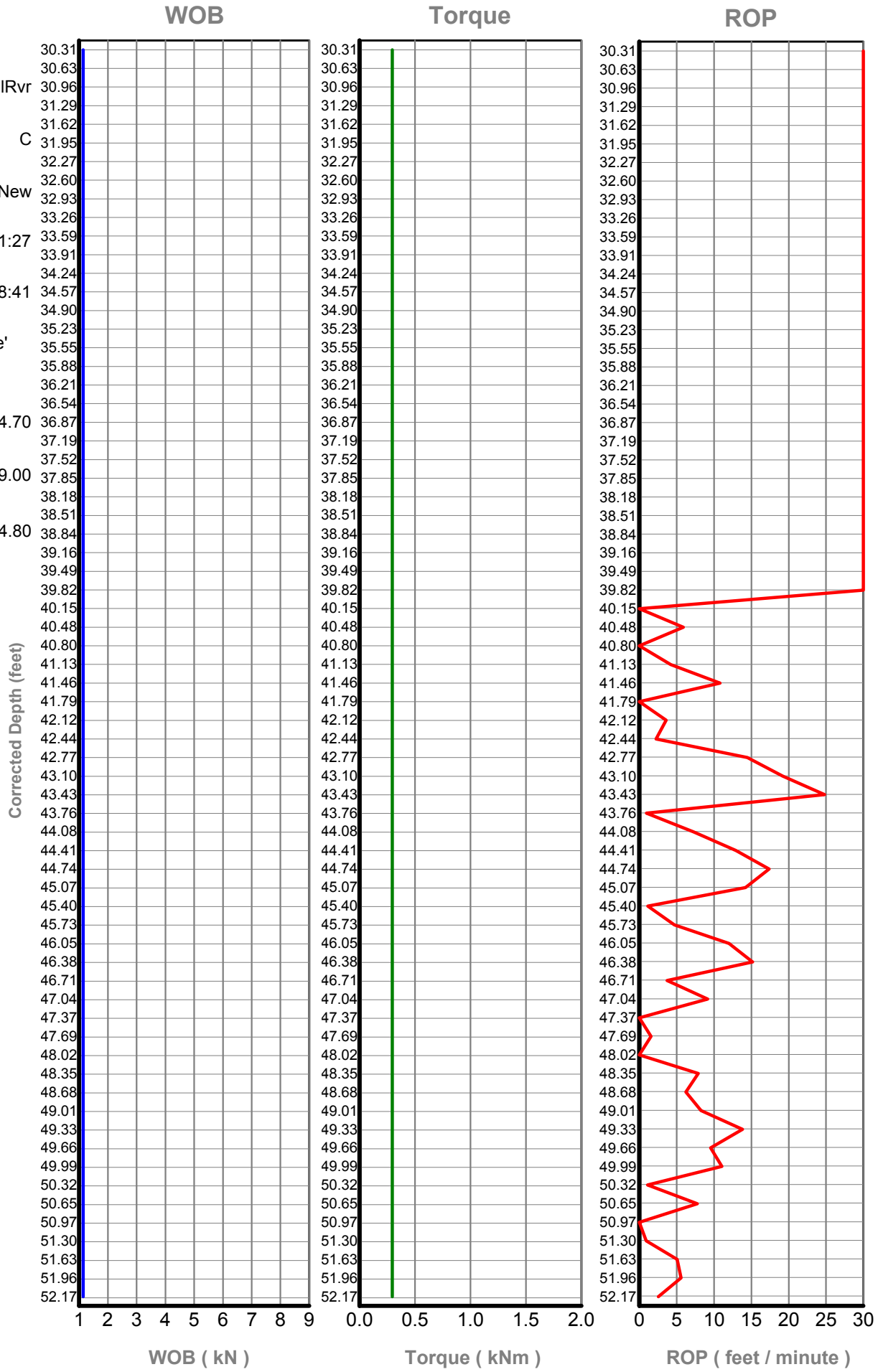
**End Date:**
5/3/2015 23:08:41

**Operator Note:**
'4.8 4.7 c Auto Complete'

**Northing:**
349,034.70

**Easting:**
224,129.00

**Tide (feet):**
4.80



## Hole: P1015 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 0:46:04 | 36.75 | 30.05 | 1,221 | 1.85 | 0.24 | 66.7 |
| 5/4/2015 0:46:04 | 37.07 | 30.37 | 1,221 | 1.83 | 0.24 | 66.7 |
| 5/4/2015 0:46:05 | 37.40 | 30.70 | 1,221 | 1.83 | 0.24 | 66.7 |
| 5/4/2015 0:46:05 | 37.73 | 31.03 | 1,210 | 1.86 | 0.24 | 66.2 |
| 5/4/2015 0:46:05 | 38.06 | 31.36 | 1,210 | 1.86 | 0.24 | 66.2 |
| 5/4/2015 0:46:05 | 38.39 | 31.69 | 1,210 | 1.87 | 0.24 | 66.2 |
| 5/4/2015 0:46:06 | 38.71 | 32.01 | 1,210 | 1.87 | 0.24 | 66.2 |
| 5/4/2015 0:46:06 | 39.04 | 32.34 | 1,234 | 1.83 | 0.24 | 67.5 |
| 5/4/2015 0:46:06 | 39.37 | 32.67 | 1,235 | 1.85 | 0.24 | 67.5 |
| 5/4/2015 0:46:07 | 39.70 | 33.00 | 1,235 | 1.85 | 0.24 | 67.5 |
| 5/4/2015 0:46:07 | 40.03 | 33.33 | 1,226 | 1.87 | 0.24 | 67.0 |
| 5/4/2015 0:46:07 | 40.35 | 33.65 | 1,226 | 1.87 | 0.24 | 67.0 |
| 5/4/2015 0:46:07 | 40.68 | 33.98 | 1,258 | 1.86 | 0.24 | 68.8 |
| 5/4/2015 0:46:08 | 41.01 | 34.31 | 1,258 | 1.86 | 0.24 | 68.8 |
| 5/4/2015 0:46:08 | 41.34 | 34.64 | 1,258 | 1.87 | 0.24 | 68.8 |
| 5/4/2015 0:46:09 | 41.67 | 34.97 | 1,258 | 1.87 | 0.24 | 68.8 |
| 5/4/2015 0:46:09 | 41.99 | 35.29 | 1,232 | 1.84 | 0.24 | 67.4 |
| 5/4/2015 0:46:09 | 42.32 | 35.62 | 1,262 | 2.10 | 0.24 | 69.0 |
| 5/4/2015 0:46:10 | 42.65 | 35.95 | 1,262 | 2.10 | 0.24 | 69.0 |
| 5/4/2015 0:46:10 | 42.98 | 36.28 | 1,230 | 1.85 | 0.24 | 67.2 |
| 5/4/2015 0:46:10 | 43.31 | 36.61 | 1,230 | 1.85 | 0.24 | 67.2 |
| 5/4/2015 0:46:10 | 43.64 | 36.94 | 1,230 | 1.83 | 0.24 | 67.2 |
| 5/4/2015 0:46:11 | 43.96 | 37.26 | 1,230 | 1.83 | 0.24 | 67.2 |
| 5/4/2015 0:46:11 | 44.29 | 37.59 | 1,216 | 1.84 | 0.24 | 66.5 |
| 5/4/2015 0:46:11 | 44.62 | 37.92 | 1,216 | 1.84 | 0.24 | 66.5 |
| 5/4/2015 0:46:11 | 44.95 | 38.25 | 1,216 | 1.84 | 0.24 | 66.5 |
| 5/4/2015 0:46:12 | 45.28 | 38.58 | 1,216 | 1.84 | 0.24 | 66.5 |
| 5/4/2015 0:46:12 | 45.60 | 38.90 | 1,250 | 1.84 | 0.24 | 68.3 |
| 5/4/2015 0:46:12 | 45.93 | 39.23 | 1,239 | 2.01 | 0.24 | 67.8 |
| 5/4/2015 0:46:13 | 46.26 | 39.56 | 1,239 | 2.01 | 0.24 | 67.8 |
| 5/4/2015 0:46:28 | 46.59 | 39.89 | 0 | 1.96 | 0.76 | 0.0 |
| 5/4/2015 0:46:29 | 46.92 | 40.22 | 138 | 2.38 | 0.73 | 7.6 |
| 5/4/2015 0:46:34 | 47.24 | 40.54 | 54 | 0.62 | 1.13 | 3.0 |
| 5/4/2015 0:46:43 | 47.57 | 40.87 | 38 | 2.46 | 1.42 | 2.1 |
| 5/4/2015 0:46:44 | 47.90 | 41.20 | 142 | 2.00 | 1.63 | 7.8 |
| 5/4/2015 0:46:45 | 48.23 | 41.53 | 278 | 2.01 | 1.27 | 15.2 |
| 5/4/2015 0:46:46 | 48.56 | 41.86 | 355 | 2.33 | 1.41 | 19.4 |
| 5/4/2015 0:46:46 | 48.88 | 42.18 | 411 | 2.48 | 1.42 | 22.5 |
| 5/4/2015 0:46:54 | 49.21 | 42.51 | 45 | 2.46 | 1.89 | 2.4 |
| 5/4/2015 0:46:56 | 49.54 | 42.84 | 165 | 2.19 | 1.55 | 9.0 |
| 5/4/2015 0:46:58 | 49.87 | 43.17 | 205 | 2.57 | 1.60 | 11.2 |
| 5/4/2015 0:46:59 | 50.20 | 43.50 | 211 | 2.55 | 1.30 | 11.5 |
| 5/4/2015 0:47:42 | 50.53 | 43.83 | 35 | 2.08 | 0.95 | 1.9 |
| 5/4/2015 0:47:57 | 50.85 | 44.15 | 26 | 2.16 | 1.01 | 1.4 |
| 5/4/2015 0:48:07 | 51.18 | 44.48 | 43 | 2.06 | 1.16 | 2.4 |
| 5/4/2015 0:48:16 | 51.51 | 44.81 | 37 | 2.10 | 1.19 | 2.0 |
| 5/4/2015 0:48:20 | 51.70 | 45.00 | 38 | 2.25 | 1.17 | 2.1 |

## P1015 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/4/2015 0:43:23

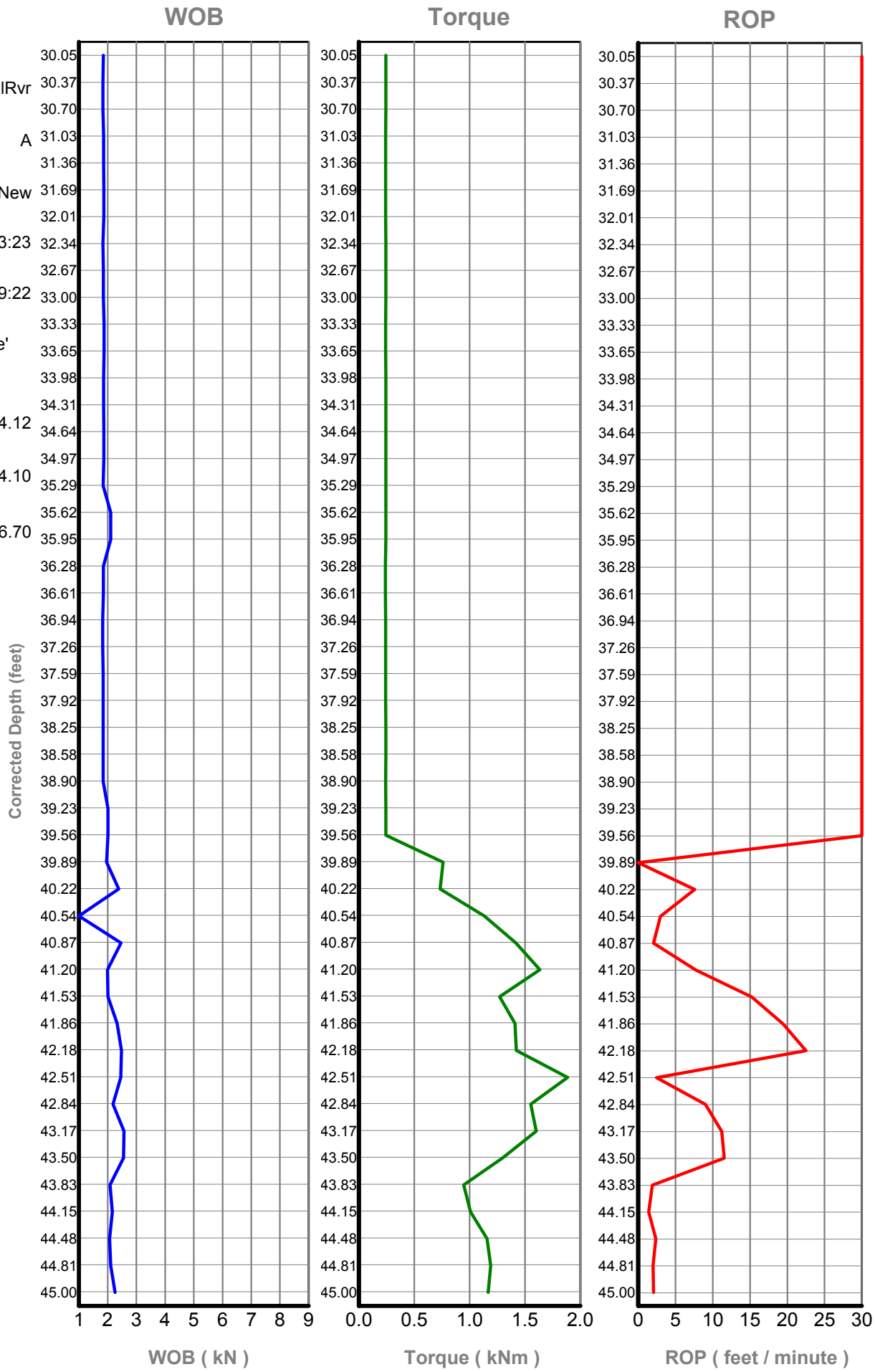
**End Date:**
5/4/2015 0:49:22

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
348,834.12

**Easting:**
223,804.10

**Tide (feet):**
6.70



## Hole: P1016 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 0:47:00 | 36.75 | 30.05 | 1,229 | 0.30 | 0.38 | 67.2 |
| 5/4/2015 0:47:00 | 37.07 | 30.37 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/4/2015 0:47:01 | 37.40 | 30.70 | 1,220 | 0.30 | 0.38 | 66.7 |
| 5/4/2015 0:47:02 | 37.73 | 31.03 | 1,220 | 0.30 | 0.38 | 66.7 |
| 5/4/2015 0:47:02 | 38.06 | 31.36 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 0:47:02 | 38.39 | 31.69 | 1,217 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 0:47:02 | 38.71 | 32.01 | 1,223 | 0.30 | 0.37 | 66.9 |
| 5/4/2015 0:47:03 | 39.04 | 32.34 | 1,223 | 0.30 | 0.37 | 66.9 |
| 5/4/2015 0:47:03 | 39.37 | 32.67 | 1,226 | 0.29 | 0.39 | 67.0 |
| 5/4/2015 0:47:03 | 39.70 | 33.00 | 1,226 | 0.29 | 0.39 | 67.0 |
| 5/4/2015 0:47:03 | 40.03 | 33.33 | 1,229 | 0.29 | 0.38 | 67.2 |
| 5/4/2015 0:47:04 | 40.35 | 33.65 | 1,229 | 0.29 | 0.37 | 67.2 |
| 5/4/2015 0:47:04 | 40.68 | 33.98 | 1,229 | 0.29 | 0.37 | 67.2 |
| 5/4/2015 0:47:04 | 41.01 | 34.31 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/4/2015 0:47:05 | 41.34 | 34.64 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/4/2015 0:47:05 | 41.67 | 34.97 | 1,229 | 0.30 | 0.38 | 67.2 |
| 5/4/2015 0:47:05 | 41.99 | 35.29 | 1,229 | 0.30 | 0.38 | 67.2 |
| 5/4/2015 0:47:05 | 42.32 | 35.62 | 1,226 | 0.30 | 0.38 | 67.0 |
| 5/4/2015 0:47:06 | 42.65 | 35.95 | 1,226 | 0.30 | 0.38 | 67.0 |
| 5/4/2015 0:47:06 | 42.98 | 36.28 | 1,216 | 0.29 | 0.38 | 66.5 |
| 5/4/2015 0:47:06 | 43.31 | 36.61 | 1,221 | 0.29 | 0.38 | 66.8 |
| 5/4/2015 0:47:07 | 43.64 | 36.94 | 1,221 | 0.29 | 0.38 | 66.8 |
| 5/4/2015 0:47:07 | 43.96 | 37.26 | 1,223 | 0.29 | 0.38 | 66.9 |
| 5/4/2015 0:47:07 | 44.29 | 37.59 | 1,223 | 0.29 | 0.38 | 66.9 |
| 5/4/2015 0:47:07 | 44.62 | 37.92 | 1,220 | 0.29 | 0.38 | 66.7 |
| 5/4/2015 0:47:08 | 44.95 | 38.25 | 1,220 | 0.29 | 0.38 | 66.7 |
| 5/4/2015 0:47:08 | 45.28 | 38.58 | 1,223 | 0.29 | 0.38 | 66.9 |
| 5/4/2015 0:47:08 | 45.60 | 38.90 | 1,226 | 0.29 | 0.38 | 67.0 |
| 5/4/2015 0:47:09 | 45.93 | 39.23 | 1,226 | 0.29 | 0.38 | 67.0 |
| 5/4/2015 0:47:09 | 46.26 | 39.56 | 1,227 | 0.30 | 0.38 | 67.1 |
| 5/4/2015 0:47:09 | 46.59 | 39.89 | 1,227 | 0.30 | 0.38 | 67.1 |
| 5/4/2015 0:47:09 | 46.92 | 40.22 | 1,220 | 0.29 | 0.38 | 66.7 |
| 5/4/2015 0:47:10 | 47.24 | 40.54 | 1,220 | 0.29 | 0.38 | 66.7 |
| 5/4/2015 0:47:10 | 47.57 | 40.87 | 1,213 | 0.27 | 0.45 | 66.3 |
| 5/4/2015 0:47:21 | 47.90 | 41.20 | 117 | 6.32 | 0.48 | 6.4 |
| 5/4/2015 0:47:25 | 48.23 | 41.53 | 75 | 5.61 | 0.48 | 4.1 |
| 5/4/2015 0:47:48 | 48.56 | 41.86 | 23 | 2.72 | 0.47 | 1.3 |
| 5/4/2015 0:48:03 | 48.88 | 42.18 | 23 | 2.95 | 0.47 | 1.3 |
| 5/4/2015 0:48:16 | 49.21 | 42.51 | 35 | 2.90 | 0.47 | 1.9 |
| 5/4/2015 0:48:19 | 49.30 | 42.60 | 29 | 2.83 | 0.47 | 1.6 |

## P1016 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 0:45:30

**End Date:**
5/4/2015 0:49:44

**Operator Note:**
'6.7 6.7b Auto Complete'

**Northing:**
348,877.80

**Easting:**
223,865.60

**Tide (feet):**
6.70



## Hole: P1017 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 0:45:32 | 36.75 | 30.05 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 0:45:32 | 37.07 | 30.37 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 0:45:32 | 37.40 | 30.70 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 0:45:33 | 37.73 | 31.03 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 0:45:33 | 38.06 | 31.36 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 0:45:33 | 38.39 | 31.69 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 0:45:34 | 38.71 | 32.01 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 0:45:34 | 39.04 | 32.34 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 0:45:34 | 39.37 | 32.67 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 0:45:35 | 39.70 | 33.00 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 0:45:35 | 40.03 | 33.33 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 0:45:35 | 40.35 | 33.65 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 0:45:36 | 40.68 | 33.98 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 0:45:36 | 41.01 | 34.31 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/4/2015 0:45:36 | 41.34 | 34.64 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 0:45:37 | 41.67 | 34.97 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 0:45:37 | 41.99 | 35.29 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/4/2015 0:45:37 | 42.32 | 35.62 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 0:45:38 | 42.65 | 35.95 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 0:45:38 | 42.98 | 36.28 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 0:45:38 | 43.31 | 36.61 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 0:45:38 | 43.64 | 36.94 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 0:45:39 | 43.96 | 37.26 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 0:45:39 | 44.29 | 37.59 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 0:45:39 | 44.62 | 37.92 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 0:45:40 | 44.95 | 38.25 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 0:45:40 | 45.28 | 38.58 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 0:45:41 | 45.60 | 38.90 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 0:45:41 | 45.93 | 39.23 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 0:45:42 | 46.26 | 39.56 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 0:45:42 | 46.59 | 39.89 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/4/2015 0:45:55 | 46.92 | 40.22 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:45:56 | 47.24 | 40.54 | 93 | 1.14 | 0.29 | 5.1 |
| 5/4/2015 0:46:17 | 47.57 | 40.87 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:46:34 | 47.90 | 41.20 | 68 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 0:46:37 | 48.23 | 41.53 | 65 | 1.14 | 0.29 | 3.5 |
| 5/4/2015 0:47:03 | 48.56 | 41.86 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:47:16 | 48.88 | 42.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:47:37 | 49.21 | 42.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:47:38 | 49.54 | 42.84 | 156 | 1.14 | 0.29 | 8.5 |
| 5/4/2015 0:48:06 | 49.87 | 43.17 | 18 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 0:48:07 | 50.20 | 43.50 | 132 | 1.14 | 0.29 | 7.2 |
| 5/4/2015 0:48:08 | 50.53 | 43.83 | 206 | 1.14 | 0.29 | 11.3 |
| 5/4/2015 0:49:11 | 50.85 | 44.15 | 52 | 1.14 | 0.29 | 2.8 |
| 5/4/2015 0:49:14 | 51.18 | 44.48 | 178 | 1.14 | 0.29 | 9.7 |
| 5/4/2015 0:49:17 | 51.51 | 44.81 | 146 | 1.14 | 0.29 | 8.0 |
| 5/4/2015 0:49:44 | 51.84 | 45.14 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:49:47 | 52.17 | 45.47 | 126 | 1.14 | 0.29 | 6.9 |
| 5/4/2015 0:49:52 | 52.49 | 45.79 | 69 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 0:49:57 | 52.82 | 46.12 | 69 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 0:50:25 | 53.15 | 46.45 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 0:50:29 | 53.48 | 46.78 | 88 | 1.14 | 0.29 | 4.8 |
| 5/4/2015 0:50:35 | 53.81 | 47.11 | 50 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 0:50:56 | 54.13 | 47.43 | 50 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 0:52:17 | 54.46 | 47.76 | 8 | 1.14 | 0.29 | 0.5 |
| 5/4/2015 0:52:22 | 54.79 | 48.09 | 71 | 1.14 | 0.29 | 3.9 |
| 5/4/2015 0:52:29 | 55.12 | 48.42 | 61 | 1.14 | 0.29 | 3.4 |
| 5/4/2015 0:52:53 | 55.45 | 48.75 | 26 | 1.14 | 0.29 | 1.4 |
| 5/4/2015 0:53:06 | 55.77 | 49.07 | 31 | 1.14 | 0.29 | 1.7 |
| 5/4/2015 0:53:27 | 56.10 | 49.40 | 20 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 0:53:47 | 56.43 | 49.73 | 20 | 1.14 | 0.29 | 1.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 0:53:59 | 56.69 | 49.99 | 26 | 1.14 | 0.29 | 1.4 |

## P1017 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 0:44:04

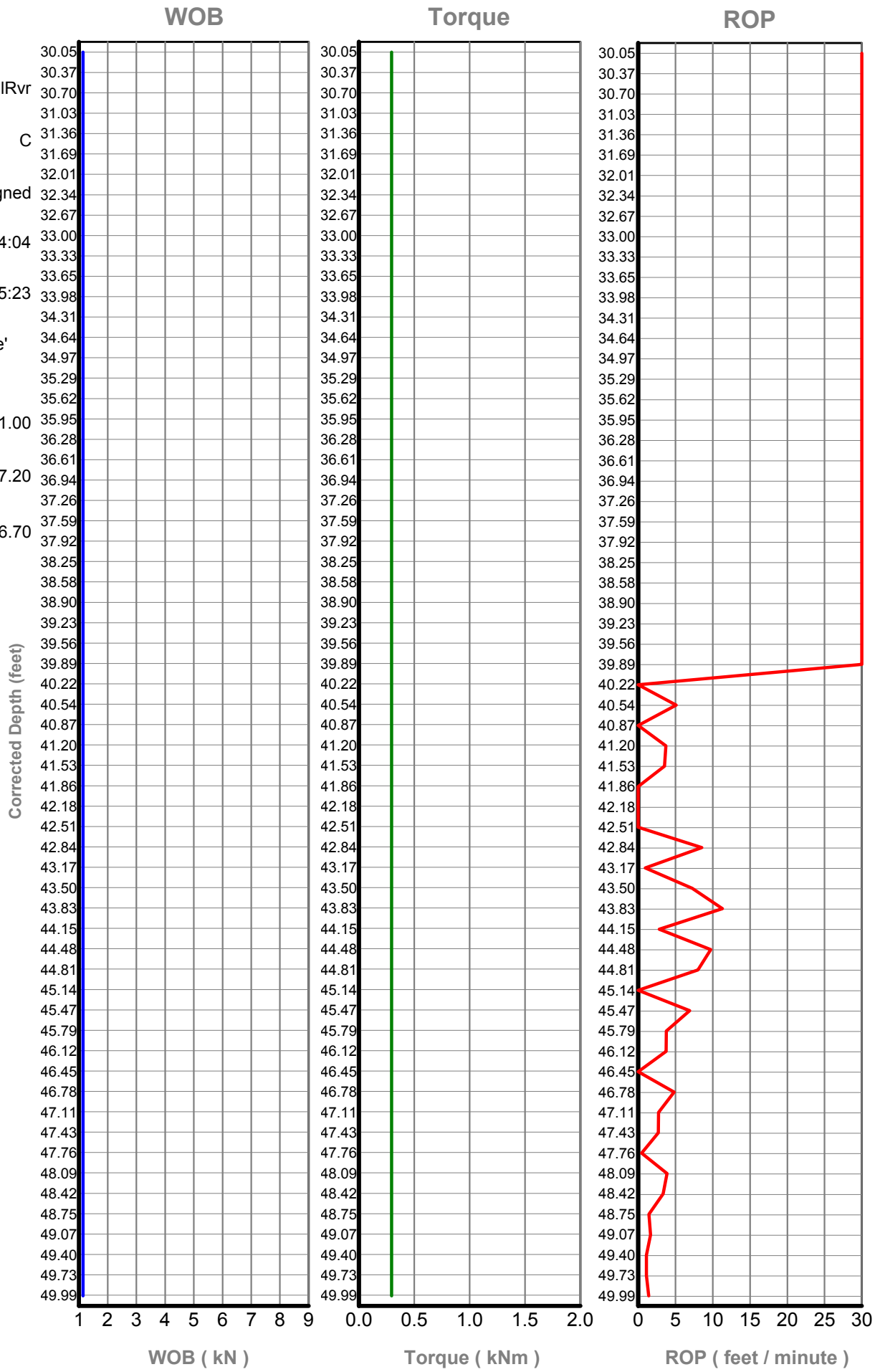
**End Date:**
5/4/2015 0:55:23

**Operator Note:**
'6.7 6.7 c Auto Complete'

**Northing:**
348,921.00

**Easting:**
223,927.20

**Tide (feet):**
6.70



## Hole: P1018 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:54:38 | 36.42 | 30.12 | 1,341 | 2.00 | 0.25 | 73.3 |
| 5/4/2015 1:54:38 | 36.75 | 30.45 | 1,354 | 2.02 | 0.25 | 74.0 |
| 5/4/2015 1:54:39 | 37.07 | 30.77 | 1,354 | 2.02 | 0.25 | 74.0 |
| 5/4/2015 1:54:39 | 37.40 | 31.10 | 1,341 | 2.03 | 0.24 | 73.4 |
| 5/4/2015 1:54:39 | 37.73 | 31.43 | 1,341 | 1.98 | 0.25 | 73.4 |
| 5/4/2015 1:54:40 | 38.06 | 31.76 | 1,341 | 1.98 | 0.25 | 73.4 |
| 5/4/2015 1:54:40 | 38.39 | 32.09 | 1,340 | 1.99 | 0.25 | 73.3 |
| 5/4/2015 1:54:41 | 38.71 | 32.41 | 1,340 | 1.99 | 0.25 | 73.3 |
| 5/4/2015 1:54:41 | 39.04 | 32.74 | 1,326 | 2.02 | 0.25 | 72.5 |
| 5/4/2015 1:54:41 | 39.37 | 33.07 | 1,326 | 2.02 | 0.25 | 72.5 |
| 5/4/2015 1:54:41 | 39.70 | 33.40 | 1,355 | 2.02 | 0.25 | 74.1 |
| 5/4/2015 1:54:42 | 40.03 | 33.73 | 1,355 | 2.02 | 0.25 | 74.1 |
| 5/4/2015 1:54:42 | 40.35 | 34.05 | 1,323 | 2.03 | 0.25 | 72.3 |
| 5/4/2015 1:54:42 | 40.68 | 34.38 | 1,323 | 2.03 | 0.25 | 72.3 |
| 5/4/2015 1:54:42 | 41.01 | 34.71 | 1,323 | 2.00 | 0.24 | 72.3 |
| 5/4/2015 1:54:43 | 41.34 | 35.04 | 1,323 | 2.00 | 0.24 | 72.3 |
| 5/4/2015 1:54:43 | 41.67 | 35.37 | 1,324 | 2.01 | 0.24 | 72.4 |
| 5/4/2015 1:54:43 | 41.99 | 35.69 | 1,324 | 2.01 | 0.24 | 72.4 |
| 5/4/2015 1:54:43 | 42.32 | 36.02 | 1,323 | 2.01 | 0.25 | 72.3 |
| 5/4/2015 1:54:44 | 42.65 | 36.35 | 1,323 | 2.01 | 0.25 | 72.3 |
| 5/4/2015 1:54:44 | 42.98 | 36.68 | 1,323 | 2.03 | 0.25 | 72.3 |
| 5/4/2015 1:54:44 | 43.31 | 37.01 | 1,323 | 2.03 | 0.25 | 72.3 |
| 5/4/2015 1:54:44 | 43.64 | 37.34 | 1,346 | 1.99 | 0.24 | 73.6 |
| 5/4/2015 1:54:44 | 43.96 | 37.66 | 1,346 | 1.99 | 0.24 | 73.6 |
| 5/4/2015 1:54:45 | 44.29 | 37.99 | 1,351 | 2.00 | 0.24 | 73.9 |
| 5/4/2015 1:54:45 | 44.62 | 38.32 | 1,351 | 2.00 | 0.24 | 73.9 |
| 5/4/2015 1:54:45 | 44.95 | 38.65 | 1,377 | 2.02 | 0.24 | 75.3 |
| 5/4/2015 1:54:46 | 45.28 | 38.98 | 1,377 | 2.02 | 0.24 | 75.3 |
| 5/4/2015 1:54:46 | 45.60 | 39.30 | 1,373 | 2.01 | 0.24 | 75.1 |
| 5/4/2015 1:54:46 | 45.93 | 39.63 | 1,373 | 2.01 | 0.24 | 75.1 |
| 5/4/2015 1:54:46 | 46.26 | 39.96 | 1,350 | 2.03 | 0.24 | 73.8 |
| 5/4/2015 1:54:46 | 46.59 | 40.29 | 1,350 | 2.03 | 0.24 | 73.8 |
| 5/4/2015 1:54:47 | 46.92 | 40.62 | 1,347 | 1.98 | 0.24 | 73.7 |
| 5/4/2015 1:54:47 | 47.24 | 40.94 | 1,347 | 1.98 | 0.24 | 73.7 |
| 5/4/2015 1:54:47 | 47.57 | 41.27 | 1,324 | 2.02 | 0.24 | 72.4 |
| 5/4/2015 1:54:48 | 47.90 | 41.60 | 1,324 | 2.02 | 0.24 | 72.4 |
| 5/4/2015 1:54:48 | 48.23 | 41.93 | 1,301 | 2.02 | 0.24 | 71.1 |
| 5/4/2015 1:54:48 | 48.56 | 42.26 | 1,301 | 2.02 | 0.24 | 71.1 |
| 5/4/2015 1:54:48 | 48.88 | 42.58 | 1,301 | 2.04 | 0.24 | 71.1 |
| 5/4/2015 1:54:49 | 49.21 | 42.91 | 1,301 | 2.04 | 0.24 | 71.1 |
| 5/4/2015 1:54:49 | 49.54 | 43.24 | 1,331 | 2.02 | 0.24 | 72.8 |
| 5/4/2015 1:54:49 | 49.87 | 43.57 | 1,331 | 2.02 | 0.24 | 72.8 |
| 5/4/2015 1:54:49 | 50.20 | 43.90 | 1,351 | 1.99 | 0.24 | 73.9 |
| 5/4/2015 1:54:50 | 50.53 | 44.23 | 1,351 | 1.99 | 0.24 | 73.9 |
| 5/4/2015 1:54:50 | 50.85 | 44.55 | 1,325 | 2.27 | 0.25 | 72.5 |
| 5/4/2015 1:54:50 | 51.18 | 44.88 | 1,303 | 2.75 | 0.24 | 71.3 |
| 5/4/2015 1:54:51 | 51.51 | 45.21 | 1,181 | 3.24 | 0.24 | 64.6 |
| 5/4/2015 1:55:07 | 51.84 | 45.54 | 103 | 2.74 | 1.77 | 5.7 |
| 5/4/2015 1:55:13 | 52.17 | 45.87 | 51 | 1.87 | 1.21 | 2.8 |
| 5/4/2015 1:55:13 | 52.49 | 46.19 | 82 | 2.15 | 1.04 | 4.5 |
| 5/4/2015 1:55:14 | 52.82 | 46.52 | 182 | 2.48 | 1.37 | 9.9 |
| 5/4/2015 1:55:21 | 53.15 | 46.85 | 0 | 2.53 | 1.23 | 0.0 |
| 5/4/2015 1:55:25 | 53.48 | 47.18 | 72 | 2.73 | 1.20 | 3.9 |
| 5/4/2015 1:55:31 | 53.81 | 47.51 | 43 | 2.68 | 1.90 | 2.4 |
| 5/4/2015 1:56:18 | 54.13 | 47.83 | 23 | 2.69 | 1.15 | 1.3 |
| 5/4/2015 1:56:36 | 54.46 | 48.16 | 17 | 2.70 | 0.98 | 1.0 |
| 5/4/2015 1:56:54 | 54.79 | 48.49 | 14 | 2.60 | 1.08 | 0.8 |
| 5/4/2015 1:57:04 | 54.97 | 48.67 | 14 | 2.69 | 1.15 | 0.7 |

## P1018 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:52:25

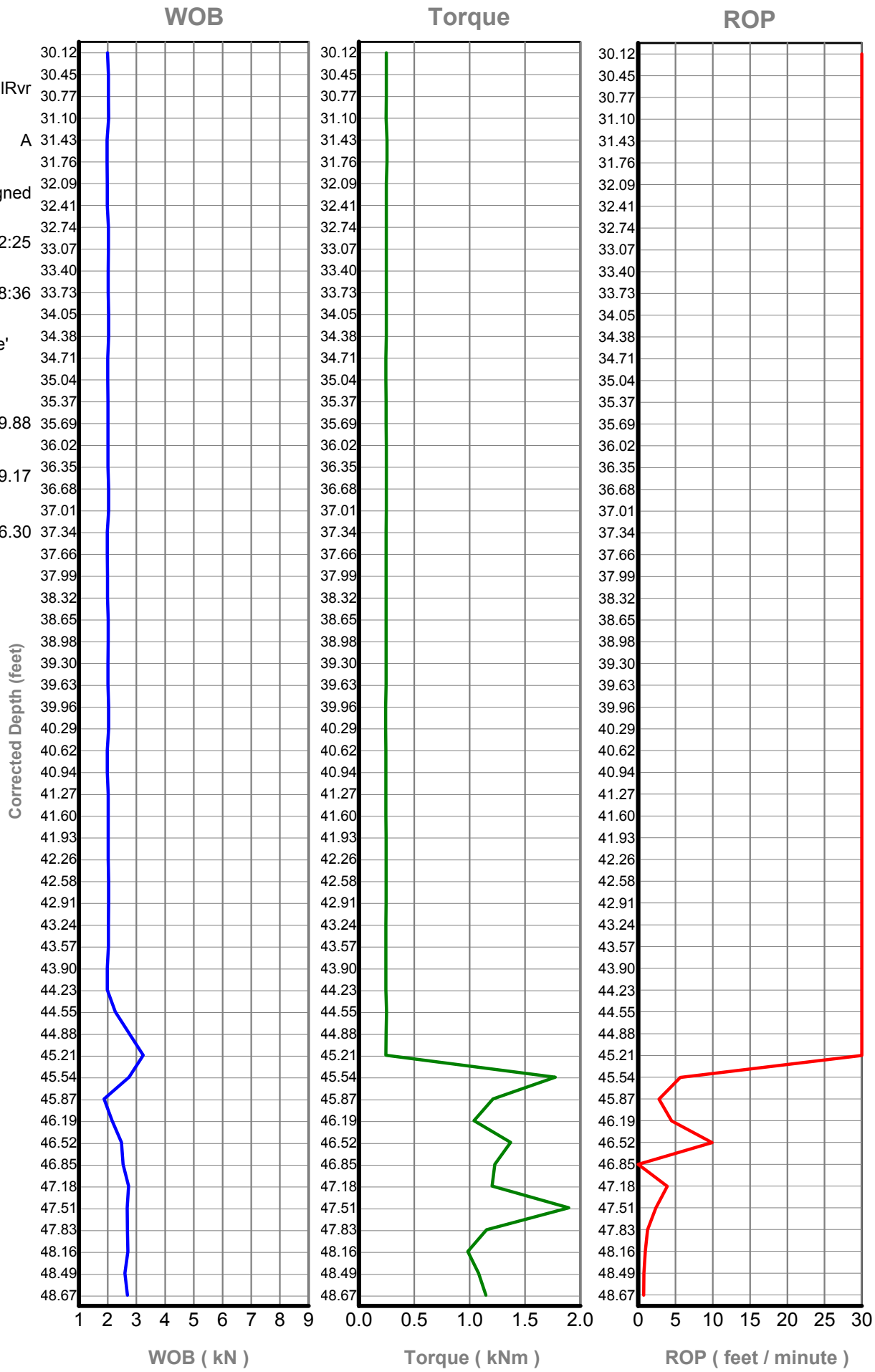
**End Date:**
5/4/2015 1:58:36

**Operator Note:**
'6.3 6.5 a Auto Complete'

**Northing:**
348,589.88

**Easting:**
223,979.17

**Tide (feet):**
6.30



## Hole: P1019 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:54:53 | 36.42 | 30.12 | 1,086 | 0.36 | 0.39 | 59.4 |
| 5/4/2015 1:54:54 | 36.75 | 30.45 | 1,093 | 0.38 | 0.39 | 59.8 |
| 5/4/2015 1:54:54 | 37.07 | 30.77 | 1,093 | 0.38 | 0.39 | 59.8 |
| 5/4/2015 1:54:54 | 37.40 | 31.10 | 1,087 | 0.36 | 0.39 | 59.4 |
| 5/4/2015 1:54:55 | 37.73 | 31.43 | 1,090 | 0.35 | 0.39 | 59.6 |
| 5/4/2015 1:54:55 | 38.06 | 31.76 | 1,090 | 0.35 | 0.39 | 59.6 |
| 5/4/2015 1:54:55 | 38.39 | 32.09 | 1,090 | 0.36 | 0.38 | 59.6 |
| 5/4/2015 1:54:56 | 38.71 | 32.41 | 1,090 | 0.36 | 0.38 | 59.6 |
| 5/4/2015 1:54:56 | 39.04 | 32.74 | 1,105 | 0.36 | 0.38 | 60.4 |
| 5/4/2015 1:54:56 | 39.37 | 33.07 | 1,099 | 0.36 | 0.38 | 60.1 |
| 5/4/2015 1:54:57 | 39.70 | 33.40 | 1,099 | 0.36 | 0.38 | 60.1 |
| 5/4/2015 1:54:57 | 40.03 | 33.73 | 1,099 | 0.36 | 0.38 | 60.1 |
| 5/4/2015 1:54:57 | 40.35 | 34.05 | 1,096 | 0.36 | 0.39 | 59.9 |
| 5/4/2015 1:54:58 | 40.68 | 34.38 | 1,096 | 0.36 | 0.39 | 59.9 |
| 5/4/2015 1:54:58 | 41.01 | 34.71 | 1,096 | 0.41 | 0.39 | 59.9 |
| 5/4/2015 1:54:58 | 41.34 | 35.04 | 1,096 | 0.41 | 0.39 | 59.9 |
| 5/4/2015 1:54:58 | 41.67 | 35.37 | 1,093 | 0.36 | 0.39 | 59.8 |
| 5/4/2015 1:54:59 | 41.99 | 35.69 | 1,090 | 0.36 | 0.38 | 59.6 |
| 5/4/2015 1:54:59 | 42.32 | 36.02 | 1,090 | 0.36 | 0.38 | 59.6 |
| 5/4/2015 1:54:59 | 42.65 | 36.35 | 1,084 | 0.35 | 0.38 | 59.3 |
| 5/4/2015 1:55:00 | 42.98 | 36.68 | 1,094 | 0.36 | 0.38 | 59.8 |
| 5/4/2015 1:55:00 | 43.31 | 37.01 | 1,094 | 0.36 | 0.38 | 59.8 |
| 5/4/2015 1:55:00 | 43.64 | 37.34 | 1,091 | 0.37 | 0.38 | 59.6 |
| 5/4/2015 1:55:01 | 43.96 | 37.66 | 1,091 | 0.37 | 0.38 | 59.6 |
| 5/4/2015 1:55:01 | 44.29 | 37.99 | 1,088 | 0.36 | 0.39 | 59.5 |
| 5/4/2015 1:55:01 | 44.62 | 38.32 | 1,088 | 0.36 | 0.38 | 59.5 |
| 5/4/2015 1:55:02 | 44.95 | 38.65 | 1,088 | 0.36 | 0.38 | 59.5 |
| 5/4/2015 1:55:02 | 45.28 | 38.98 | 1,097 | 0.36 | 0.38 | 60.0 |
| 5/4/2015 1:55:02 | 45.60 | 39.30 | 1,084 | 0.36 | 0.39 | 59.3 |
| 5/4/2015 1:55:03 | 45.93 | 39.63 | 1,084 | 0.36 | 0.39 | 59.3 |
| 5/4/2015 1:55:03 | 46.26 | 39.96 | 1,081 | 0.36 | 0.39 | 59.1 |
| 5/4/2015 1:55:04 | 46.59 | 40.29 | 1,074 | 0.37 | 0.39 | 58.8 |
| 5/4/2015 1:55:04 | 46.92 | 40.62 | 1,074 | 0.37 | 0.39 | 58.8 |
| 5/4/2015 1:55:04 | 47.24 | 40.94 | 1,084 | 0.37 | 0.38 | 59.3 |
| 5/4/2015 1:55:05 | 47.57 | 41.27 | 1,084 | 0.37 | 0.38 | 59.3 |
| 5/4/2015 1:55:05 | 47.90 | 41.60 | 1,078 | 0.36 | 0.38 | 59.0 |
| 5/4/2015 1:55:05 | 48.23 | 41.93 | 1,081 | 0.36 | 0.39 | 59.1 |
| 5/4/2015 1:55:06 | 48.56 | 42.26 | 1,081 | 0.36 | 0.39 | 59.1 |
| 5/4/2015 1:55:06 | 48.88 | 42.58 | 1,081 | 0.37 | 0.38 | 59.1 |
| 5/4/2015 1:55:06 | 49.21 | 42.91 | 1,081 | 0.37 | 0.38 | 59.1 |
| 5/4/2015 1:55:07 | 49.54 | 43.24 | 1,081 | 0.37 | 0.38 | 59.1 |
| 5/4/2015 1:55:07 | 49.87 | 43.57 | 1,072 | 0.37 | 0.39 | 58.6 |
| 5/4/2015 1:55:07 | 50.20 | 43.90 | 1,075 | 0.36 | 0.38 | 58.8 |
| 5/4/2015 1:55:08 | 50.53 | 44.23 | 1,075 | 0.36 | 0.38 | 58.8 |
| 5/4/2015 1:55:08 | 50.85 | 44.55 | 1,075 | 0.36 | 0.38 | 58.8 |
| 5/4/2015 1:55:08 | 51.18 | 44.88 | 1,075 | 0.36 | 0.38 | 58.8 |
| 5/4/2015 1:55:08 | 51.51 | 45.21 | 1,084 | 0.37 | 0.39 | 59.3 |
| 5/4/2015 1:55:09 | 51.84 | 45.54 | 1,084 | 0.37 | 0.39 | 59.3 |
| 5/4/2015 1:55:09 | 52.17 | 45.87 | 1,084 | 0.37 | 0.39 | 59.3 |
| 5/4/2015 1:55:09 | 52.49 | 46.19 | 1,091 | 0.37 | 0.39 | 59.6 |
| 5/4/2015 1:55:10 | 52.82 | 46.52 | 1,088 | 0.36 | 0.39 | 59.5 |
| 5/4/2015 1:55:10 | 53.15 | 46.85 | 1,088 | 0.36 | 0.39 | 59.5 |
| 5/4/2015 1:55:15 | 53.48 | 47.18 | 0 | 3.39 | 0.43 | 0.0 |
| 5/4/2015 1:55:23 | 53.81 | 47.51 | 15 | 4.41 | 0.48 | 0.8 |
| 5/4/2015 1:55:28 | 54.13 | 47.83 | 110 | 4.19 | 0.46 | 6.0 |
| 5/4/2015 1:55:32 | 54.46 | 48.16 | 92 | 3.36 | 0.47 | 5.0 |
| 5/4/2015 1:55:38 | 54.79 | 48.49 | 57 | 3.33 | 0.47 | 3.1 |
| 5/4/2015 1:55:43 | 55.12 | 48.82 | 74 | 3.76 | 0.47 | 4.1 |
| 5/4/2015 1:56:00 | 55.45 | 49.15 | 19 | 4.28 | 0.47 | 1.1 |
| 5/4/2015 1:56:12 | 55.77 | 49.47 | 23 | 3.74 | 0.48 | 1.2 |
| 5/4/2015 1:56:31 | 56.10 | 49.80 | 29 | 3.50 | 0.46 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:56:34 | 56.43 | 50.13 | 89 | 3.35 | 0.46 | 4.9 |
| 5/4/2015 | 1:56:39 | 56.76 | 50.46 | 80 | 2.97 | 0.47 | 4.4 |
| 5/4/2015 | 1:56:45 | 57.09 | 50.79 | 63 | 3.35 | 0.47 | 3.5 |
| 5/4/2015 | 1:56:51 | 57.41 | 51.11 | 70 | 3.26 | 0.47 | 3.8 |
| 5/4/2015 | 1:56:55 | 57.74 | 51.44 | 87 | 3.48 | 0.47 | 4.7 |
| 5/4/2015 | 1:57:00 | 58.07 | 51.77 | 69 | 3.27 | 0.47 | 3.8 |
| 5/4/2015 | 1:57:05 | 58.40 | 52.10 | 78 | 3.20 | 0.47 | 4.3 |
| 5/4/2015 | 1:57:09 | 58.73 | 52.43 | 87 | 3.52 | 0.47 | 4.7 |
| 5/4/2015 | 1:57:14 | 59.06 | 52.76 | 87 | 3.64 | 0.47 | 4.8 |
| 5/4/2015 | 1:57:17 | 59.38 | 53.08 | 107 | 3.39 | 0.47 | 5.8 |
| 5/4/2015 | 1:57:21 | 59.71 | 53.41 | 84 | 3.80 | 0.46 | 4.6 |
| 5/4/2015 | 1:57:25 | 60.04 | 53.74 | 93 | 3.64 | 0.47 | 5.1 |
| 5/4/2015 | 1:57:38 | 60.37 | 54.07 | 20 | 2.73 | 0.47 | 1.1 |
| 5/4/2015 | 1:57:53 | 60.70 | 54.40 | 23 | 3.01 | 0.47 | 1.3 |
| 5/4/2015 | 1:57:59 | 61.02 | 54.72 | 72 | 4.04 | 0.47 | 4.0 |
| 5/4/2015 | 1:58:03 | 61.35 | 55.05 | 100 | 3.82 | 0.47 | 5.5 |
| 5/4/2015 | 1:58:05 | 61.53 | 55.23 | 99 | 4.00 | 0.47 | 5.4 |

## P1019 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:53:17

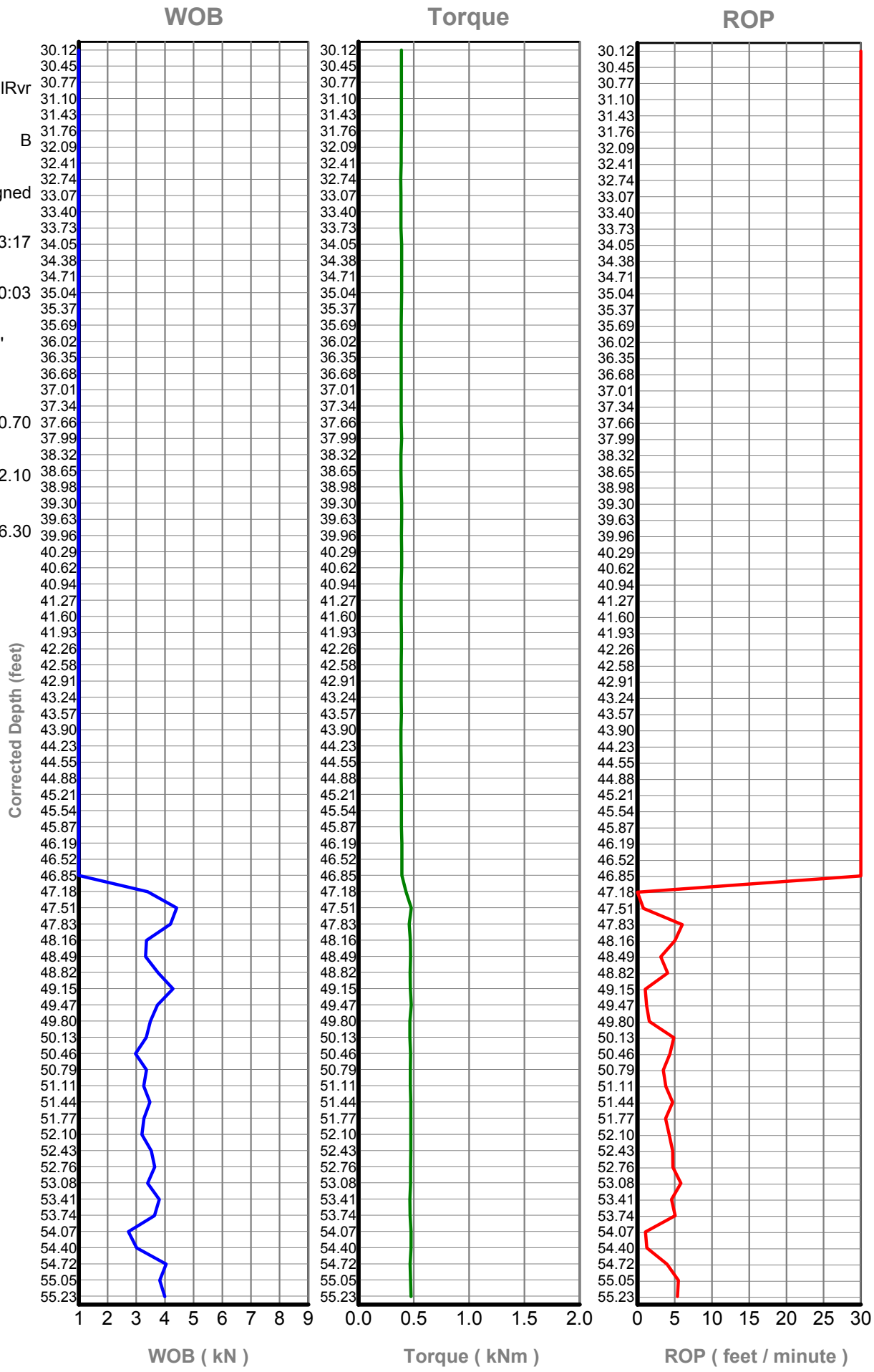
**End Date:**
5/4/2015 2:00:03

**Operator Note:**
'6.3 6.5b Auto Complete'

**Northing:**
348,630.70

**Easting:**
224,042.10

**Tide (feet):**
6.30



## Hole: P102 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:00:30 | 34.12 | 30.22 | 1,124 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:31 | 34.45 | 30.55 | 1,124 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:31 | 34.78 | 30.88 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:31 | 35.11 | 31.21 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:31 | 35.43 | 31.53 | 1,124 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:32 | 35.76 | 31.86 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:32 | 36.09 | 32.19 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:32 | 36.42 | 32.52 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 10:00:33 | 36.75 | 32.85 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 10:00:33 | 37.07 | 33.17 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 10:00:33 | 37.40 | 33.50 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 10:00:34 | 37.73 | 33.83 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 10:00:34 | 38.06 | 34.16 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 10:00:34 | 38.39 | 34.49 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 10:00:35 | 38.71 | 34.81 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 10:00:35 | 39.04 | 35.14 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:36 | 39.37 | 35.47 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:36 | 39.70 | 35.80 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 10:00:36 | 40.03 | 36.13 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:37 | 40.35 | 36.45 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:37 | 40.68 | 36.78 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 10:00:37 | 41.01 | 37.11 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 10:00:38 | 41.34 | 37.44 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 10:00:38 | 41.67 | 37.77 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 10:00:38 | 41.99 | 38.09 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 10:00:38 | 42.32 | 38.42 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 10:00:39 | 42.65 | 38.75 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:39 | 42.98 | 39.08 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:39 | 43.31 | 39.41 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 10:00:40 | 43.64 | 39.74 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 10:00:40 | 43.96 | 40.06 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 10:00:40 | 44.29 | 40.39 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 10:00:41 | 44.62 | 40.72 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 10:00:41 | 44.95 | 41.05 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 10:00:41 | 45.28 | 41.38 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 10:00:42 | 45.60 | 41.70 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 10:00:42 | 45.93 | 42.03 | 1,098 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 10:00:42 | 46.26 | 42.36 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 10:00:43 | 46.59 | 42.69 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 10:00:59 | 46.92 | 43.02 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 10:01:00 | 47.24 | 43.34 | 124 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 10:01:01 | 47.57 | 43.67 | 297 | 1.14 | 0.29 | 16.2 |
| 5/3/2015 10:01:08 | 47.90 | 44.00 | 43 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 10:01:24 | 48.23 | 44.33 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 10:01:39 | 48.56 | 44.66 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 10:01:50 | 48.88 | 44.98 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 10:02:03 | 49.21 | 45.31 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 10:02:06 | 49.30 | 45.40 | 29 | 1.14 | 0.29 | 1.6 |

## P102 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 9:59:19

**End Date:**
5/3/2015 10:03:33

**Operator Note:**
'3.9 3.8 Auto Complete'

**Northing:**
349,214.30

**Easting:**
224,825.30

**Tide (feet):**
3.90



## Hole: P1020 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:53:13 | 36.42 | 30.12 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/4/2015 1:53:13 | 36.75 | 30.45 | 992 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:14 | 37.07 | 30.77 | 992 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:14 | 37.40 | 31.10 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/4/2015 1:53:14 | 37.73 | 31.43 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:15 | 38.06 | 31.76 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:15 | 38.39 | 32.09 | 1,010 | 1.14 | 0.29 | 55.2 |
| 5/4/2015 1:53:15 | 38.71 | 32.41 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 1:53:16 | 39.04 | 32.74 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 1:53:17 | 39.37 | 33.07 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 1:53:17 | 39.70 | 33.40 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/4/2015 1:53:17 | 40.03 | 33.73 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 1:53:18 | 40.35 | 34.05 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 1:53:18 | 40.68 | 34.38 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/4/2015 1:53:18 | 41.01 | 34.71 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/4/2015 1:53:19 | 41.34 | 35.04 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/4/2015 1:53:19 | 41.67 | 35.37 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 1:53:19 | 41.99 | 35.69 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 1:53:20 | 42.32 | 36.02 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 1:53:20 | 42.65 | 36.35 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 1:53:20 | 42.98 | 36.68 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/4/2015 1:53:21 | 43.31 | 37.01 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/4/2015 1:53:21 | 43.64 | 37.34 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/4/2015 1:53:21 | 43.96 | 37.66 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/4/2015 1:53:22 | 44.29 | 37.99 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/4/2015 1:53:22 | 44.62 | 38.32 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/4/2015 1:53:22 | 44.95 | 38.65 | 994 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:23 | 45.28 | 38.98 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/4/2015 1:53:23 | 45.60 | 39.30 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/4/2015 1:53:23 | 45.93 | 39.63 | 991 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:24 | 46.26 | 39.96 | 997 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 1:53:24 | 46.59 | 40.29 | 997 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 1:53:24 | 46.92 | 40.62 | 991 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:25 | 47.24 | 40.94 | 997 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 1:53:25 | 47.57 | 41.27 | 997 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 1:53:25 | 47.90 | 41.60 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:26 | 48.23 | 41.93 | 995 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:26 | 48.56 | 42.26 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:27 | 48.88 | 42.58 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:27 | 49.21 | 42.91 | 995 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:27 | 49.54 | 43.24 | 995 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:28 | 49.87 | 43.57 | 995 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:28 | 50.20 | 43.90 | 995 | 1.14 | 0.29 | 54.4 |
| 5/4/2015 1:53:29 | 50.53 | 44.23 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:29 | 50.85 | 44.55 | 998 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 1:53:29 | 51.18 | 44.88 | 992 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:30 | 51.51 | 45.21 | 991 | 1.14 | 0.29 | 54.2 |
| 5/4/2015 1:53:30 | 51.84 | 45.54 | 980 | 1.14 | 0.29 | 53.6 |
| 5/4/2015 1:53:41 | 52.17 | 45.87 | 94 | 1.14 | 0.29 | 5.2 |
| 5/4/2015 1:53:42 | 52.49 | 46.19 | 242 | 1.14 | 0.29 | 13.2 |
| 5/4/2015 1:53:49 | 52.82 | 46.52 | 40 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 1:53:57 | 53.15 | 46.85 | 29 | 1.14 | 0.29 | 1.6 |
| 5/4/2015 1:54:19 | 53.48 | 47.18 | 13 | 1.14 | 0.29 | 0.7 |
| 5/4/2015 1:54:41 | 53.81 | 47.51 | 17 | 1.14 | 0.29 | 0.9 |
| 5/4/2015 1:55:01 | 54.13 | 47.83 | 17 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 1:55:10 | 54.29 | 47.99 | 23 | 1.14 | 0.29 | 1.3 |

## P1020 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:52:06

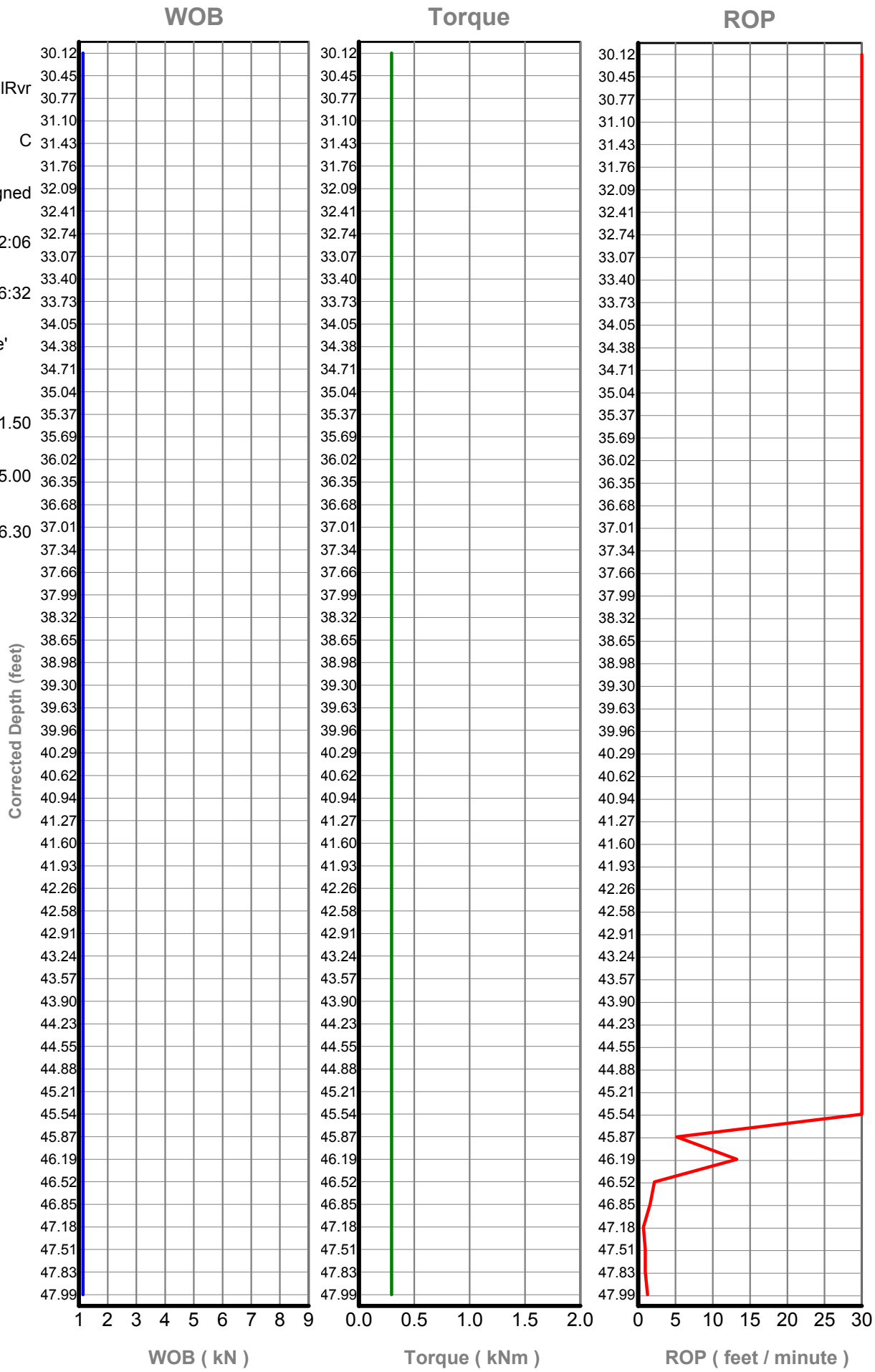
**End Date:**
5/4/2015 1:56:32

**Operator Note:**
'6.3 6.5 c Auto Complete'

**Northing:**
348,671.50

**Easting:**
224,105.00

**Tide (feet):**
6.30



## Hole: P1021 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:16:28 | 36.09 | 30.09 | 1,318 | 1.93 | 0.78 | 72.1 |
| 5/4/2015 2:16:28 | 36.42 | 30.42 | 1,318 | 1.91 | 0.81 | 72.1 |
| 5/4/2015 2:16:29 | 36.75 | 30.75 | 1,318 | 1.91 | 0.81 | 72.1 |
| 5/4/2015 2:16:29 | 37.07 | 31.07 | 1,325 | 1.89 | 0.82 | 72.4 |
| 5/4/2015 2:16:29 | 37.40 | 31.40 | 1,325 | 1.89 | 0.82 | 72.4 |
| 5/4/2015 2:16:29 | 37.73 | 31.73 | 1,307 | 1.89 | 0.78 | 71.5 |
| 5/4/2015 2:16:30 | 38.06 | 32.06 | 1,307 | 1.89 | 0.78 | 71.5 |
| 5/4/2015 2:16:30 | 38.39 | 32.39 | 1,309 | 1.90 | 0.77 | 71.6 |
| 5/4/2015 2:16:30 | 38.71 | 32.71 | 1,312 | 1.91 | 0.78 | 71.7 |
| 5/4/2015 2:16:31 | 39.04 | 33.04 | 1,312 | 1.91 | 0.78 | 71.7 |
| 5/4/2015 2:16:31 | 39.37 | 33.37 | 1,344 | 1.92 | 0.79 | 73.5 |
| 5/4/2015 2:16:31 | 39.70 | 33.70 | 1,344 | 1.92 | 0.79 | 73.5 |
| 5/4/2015 2:16:31 | 40.03 | 34.03 | 1,341 | 1.93 | 0.77 | 73.3 |
| 5/4/2015 2:16:32 | 40.35 | 34.35 | 1,341 | 1.93 | 0.77 | 73.3 |
| 5/4/2015 2:16:32 | 40.68 | 34.68 | 1,343 | 1.91 | 0.81 | 73.4 |
| 5/4/2015 2:16:33 | 41.01 | 35.01 | 1,343 | 1.91 | 0.81 | 73.4 |
| 5/4/2015 2:16:33 | 41.34 | 35.34 | 1,335 | 1.89 | 0.82 | 73.0 |
| 5/4/2015 2:16:33 | 41.67 | 35.67 | 1,335 | 1.89 | 0.82 | 73.0 |
| 5/4/2015 2:16:33 | 41.99 | 35.99 | 1,321 | 1.91 | 0.81 | 72.2 |
| 5/4/2015 2:16:34 | 42.32 | 36.32 | 1,321 | 1.91 | 0.81 | 72.2 |
| 5/4/2015 2:16:34 | 42.65 | 36.65 | 1,289 | 1.90 | 0.81 | 70.5 |
| 5/4/2015 2:16:34 | 42.98 | 36.98 | 1,289 | 1.90 | 0.81 | 70.5 |
| 5/4/2015 2:16:34 | 43.31 | 37.31 | 1,289 | 1.93 | 0.82 | 70.5 |
| 5/4/2015 2:16:35 | 43.64 | 37.64 | 1,289 | 1.93 | 0.82 | 70.5 |
| 5/4/2015 2:16:35 | 43.96 | 37.96 | 1,302 | 1.93 | 0.78 | 71.2 |
| 5/4/2015 2:16:35 | 44.29 | 38.29 | 1,302 | 1.93 | 0.78 | 71.2 |
| 5/4/2015 2:16:35 | 44.62 | 38.62 | 1,315 | 1.90 | 0.78 | 71.9 |
| 5/4/2015 2:16:36 | 44.95 | 38.95 | 1,315 | 1.90 | 0.78 | 71.9 |
| 5/4/2015 2:16:36 | 45.28 | 39.28 | 1,316 | 1.91 | 0.78 | 72.0 |
| 5/4/2015 2:16:36 | 45.60 | 39.60 | 1,316 | 1.91 | 0.78 | 72.0 |
| 5/4/2015 2:16:36 | 45.93 | 39.93 | 1,318 | 1.91 | 0.82 | 72.1 |
| 5/4/2015 2:16:37 | 46.26 | 40.26 | 1,318 | 1.91 | 0.82 | 72.1 |
| 5/4/2015 2:16:37 | 46.59 | 40.59 | 1,339 | 1.93 | 0.79 | 73.2 |
| 5/4/2015 2:16:37 | 46.92 | 40.92 | 1,321 | 1.91 | 0.80 | 72.2 |
| 5/4/2015 2:16:38 | 47.24 | 41.24 | 1,321 | 1.91 | 0.80 | 72.2 |
| 5/4/2015 2:16:38 | 47.57 | 41.57 | 1,318 | 1.91 | 0.82 | 72.1 |
| 5/4/2015 2:16:38 | 47.90 | 41.90 | 1,318 | 1.91 | 0.82 | 72.1 |
| 5/4/2015 2:16:38 | 48.23 | 42.23 | 1,318 | 1.93 | 0.77 | 72.1 |
| 5/4/2015 2:16:39 | 48.56 | 42.56 | 1,318 | 1.93 | 0.77 | 72.1 |
| 5/4/2015 2:16:39 | 48.88 | 42.88 | 1,293 | 1.93 | 0.82 | 70.7 |
| 5/4/2015 2:16:39 | 49.21 | 43.21 | 1,293 | 1.93 | 0.82 | 70.7 |
| 5/4/2015 2:16:39 | 49.54 | 43.54 | 1,293 | 1.91 | 0.56 | 70.7 |
| 5/4/2015 2:16:40 | 49.87 | 43.87 | 1,293 | 1.91 | 0.56 | 70.7 |
| 5/4/2015 2:16:40 | 50.20 | 44.20 | 1,305 | 1.91 | 0.53 | 71.4 |
| 5/4/2015 2:16:40 | 50.53 | 44.53 | 1,305 | 1.91 | 0.53 | 71.4 |
| 5/4/2015 2:16:40 | 50.85 | 44.85 | 1,310 | 2.43 | 0.56 | 71.6 |
| 5/4/2015 2:16:56 | 51.18 | 45.18 | 0 | 2.73 | 1.24 | 0.0 |
| 5/4/2015 2:17:01 | 51.51 | 45.51 | 3 | 2.35 | 1.08 | 0.1 |
| 5/4/2015 2:17:10 | 51.84 | 45.84 | 17 | 2.24 | 1.37 | 0.9 |
| 5/4/2015 2:17:11 | 52.17 | 46.17 | 86 | 2.22 | 1.41 | 4.7 |
| 5/4/2015 2:17:13 | 52.49 | 46.49 | 228 | 2.71 | 1.29 | 12.5 |
| 5/4/2015 2:17:18 | 52.82 | 46.82 | 46 | 2.14 | 1.05 | 2.5 |
| 5/4/2015 2:17:18 | 53.15 | 47.15 | 106 | 2.22 | 1.02 | 5.8 |
| 5/4/2015 2:17:19 | 53.48 | 47.48 | 205 | 2.00 | 1.40 | 11.2 |
| 5/4/2015 2:17:21 | 53.81 | 47.81 | 277 | 2.03 | 1.79 | 15.2 |
| 5/4/2015 2:17:47 | 54.13 | 48.13 | 43 | 2.53 | 1.85 | 2.4 |
| 5/4/2015 2:19:17 | 54.46 | 48.46 | 52 | 2.68 | 1.19 | 2.9 |
| 5/4/2015 2:19:26 | 54.79 | 48.79 | 41 | 2.62 | 1.24 | 2.2 |
| 5/4/2015 2:19:34 | 55.12 | 49.12 | 41 | 2.63 | 1.29 | 2.3 |
| 5/4/2015 2:19:40 | 55.45 | 49.45 | 64 | 2.52 | 1.36 | 3.5 |
| 5/4/2015 2:19:44 | 55.77 | 49.77 | 99 | 2.56 | 1.33 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:19:51 | 56.10 | 50.10 | 35 | 2.44 | 1.09 | 1.9 |
| 5/4/2015 | 2:19:55 | 56.43 | 50.43 | 86 | 2.51 | 1.53 | 4.7 |
| 5/4/2015 | 2:20:06 | 56.76 | 50.76 | 17 | 2.78 | 0.97 | 0.9 |
| 5/4/2015 | 2:20:25 | 57.09 | 51.09 | 17 | 2.57 | 0.98 | 0.9 |
| 5/4/2015 | 2:20:43 | 57.41 | 51.41 | 20 | 2.50 | 1.07 | 1.1 |
| 5/4/2015 | 2:20:46 | 57.48 | 51.48 | 23 | 2.48 | 0.95 | 1.3 |

## P1021 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 2:14:31

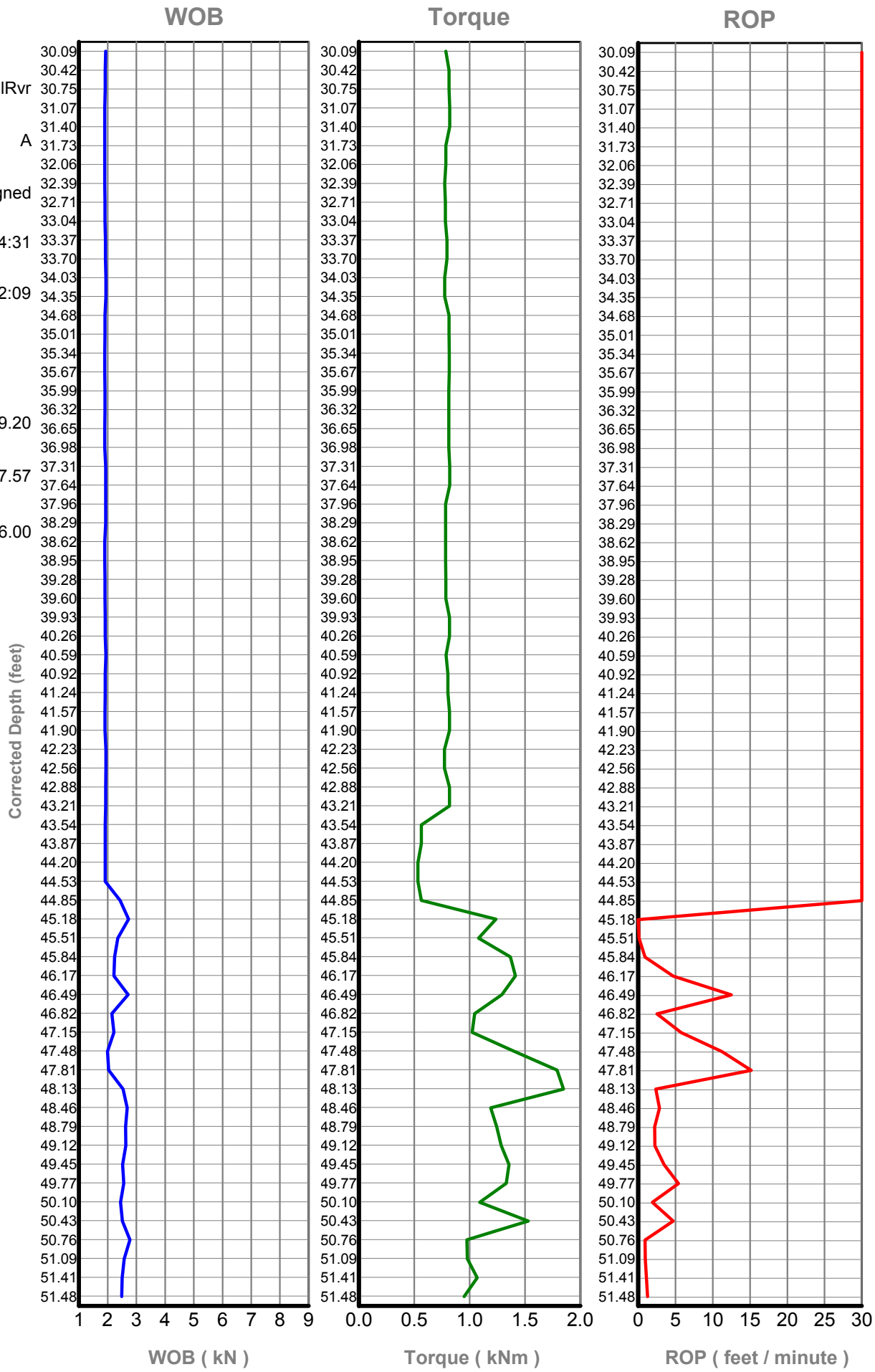
**End Date:**
5/4/2015 2:22:09

**Operator Note:**
'6 6.1 a Auto Complete'

**Northing:**
348,529.20

**Easting:**
224,007.57

**Tide (feet):**
6.00



## Hole: P1022 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:18:07 | 36.09 | 30.29 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/4/2015 2:18:07 | 36.42 | 30.62 | 1,160 | 0.32 | 0.38 | 63.4 |
| 5/4/2015 2:18:07 | 36.75 | 30.95 | 1,160 | 0.33 | 0.38 | 63.4 |
| 5/4/2015 2:18:08 | 37.07 | 31.27 | 1,160 | 0.33 | 0.38 | 63.4 |
| 5/4/2015 2:18:08 | 37.40 | 31.60 | 1,174 | 0.33 | 0.37 | 64.2 |
| 5/4/2015 2:18:09 | 37.73 | 31.93 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/4/2015 2:18:09 | 38.06 | 32.26 | 1,159 | 0.32 | 0.37 | 63.4 |
| 5/4/2015 2:18:09 | 38.39 | 32.59 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/4/2015 2:18:10 | 38.71 | 32.91 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/4/2015 2:18:10 | 39.04 | 33.24 | 1,179 | 0.33 | 0.38 | 64.5 |
| 5/4/2015 2:18:10 | 39.37 | 33.57 | 1,179 | 0.33 | 0.38 | 64.5 |
| 5/4/2015 2:18:10 | 39.70 | 33.90 | 1,188 | 0.33 | 0.38 | 64.9 |
| 5/4/2015 2:18:11 | 40.03 | 34.23 | 1,212 | 0.33 | 0.38 | 66.3 |
| 5/4/2015 2:18:11 | 40.35 | 34.55 | 1,212 | 0.33 | 0.38 | 66.3 |
| 5/4/2015 2:18:11 | 40.68 | 34.88 | 1,178 | 0.33 | 0.38 | 64.4 |
| 5/4/2015 2:18:12 | 41.01 | 35.21 | 1,178 | 0.33 | 0.38 | 64.4 |
| 5/4/2015 2:18:12 | 41.34 | 35.54 | 1,214 | 0.33 | 0.38 | 66.4 |
| 5/4/2015 2:18:12 | 41.67 | 35.87 | 1,214 | 0.33 | 0.38 | 66.4 |
| 5/4/2015 2:18:12 | 41.99 | 36.19 | 1,180 | 0.33 | 0.38 | 64.5 |
| 5/4/2015 2:18:13 | 42.32 | 36.52 | 1,181 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 2:18:13 | 42.65 | 36.85 | 1,181 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 2:18:13 | 42.98 | 37.18 | 1,181 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 2:18:14 | 43.31 | 37.51 | 1,181 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 2:18:14 | 43.64 | 37.84 | 1,184 | 0.33 | 0.38 | 64.7 |
| 5/4/2015 2:18:14 | 43.96 | 38.16 | 1,184 | 0.33 | 0.38 | 64.7 |
| 5/4/2015 2:18:14 | 44.29 | 38.49 | 1,197 | 0.33 | 0.37 | 65.4 |
| 5/4/2015 2:18:15 | 44.62 | 38.82 | 1,189 | 0.33 | 0.39 | 65.0 |
| 5/4/2015 2:18:16 | 44.95 | 39.15 | 1,189 | 0.33 | 0.39 | 65.0 |
| 5/4/2015 2:18:15 | 45.28 | 39.48 | 1,181 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 2:18:16 | 45.60 | 39.80 | 1,181 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 2:18:16 | 45.93 | 40.13 | 1,181 | 0.33 | 0.39 | 64.6 |
| 5/4/2015 2:18:16 | 46.26 | 40.46 | 1,181 | 0.33 | 0.39 | 64.6 |
| 5/4/2015 2:18:16 | 46.59 | 40.79 | 1,186 | 0.33 | 0.38 | 64.9 |
| 5/4/2015 2:18:17 | 46.92 | 41.12 | 1,166 | 0.33 | 0.38 | 63.8 |
| 5/4/2015 2:18:18 | 47.24 | 41.44 | 1,166 | 0.33 | 0.38 | 63.8 |
| 5/4/2015 2:18:17 | 47.57 | 41.77 | 1,157 | 0.33 | 0.38 | 63.2 |
| 5/4/2015 2:18:18 | 47.90 | 42.10 | 1,157 | 0.33 | 0.38 | 63.2 |
| 5/4/2015 2:18:18 | 48.23 | 42.43 | 1,157 | 0.33 | 0.37 | 63.2 |
| 5/4/2015 2:18:19 | 48.56 | 42.76 | 1,171 | 0.33 | 0.38 | 64.0 |
| 5/4/2015 2:18:19 | 48.88 | 43.08 | 1,171 | 0.33 | 0.38 | 64.0 |
| 5/4/2015 2:18:19 | 49.21 | 43.41 | 1,188 | 0.33 | 0.37 | 65.0 |
| 5/4/2015 2:18:20 | 49.54 | 43.74 | 1,188 | 0.33 | 0.37 | 65.0 |
| 5/4/2015 2:18:20 | 49.87 | 44.07 | 1,188 | 0.33 | 0.38 | 65.0 |
| 5/4/2015 2:18:20 | 50.20 | 44.40 | 1,188 | 0.33 | 0.38 | 65.0 |
| 5/4/2015 2:18:20 | 50.53 | 44.73 | 1,186 | 0.33 | 0.38 | 64.9 |
| 5/4/2015 2:18:21 | 50.85 | 45.05 | 1,164 | 0.33 | 0.38 | 63.7 |
| 5/4/2015 2:18:21 | 51.18 | 45.38 | 1,164 | 0.33 | 0.38 | 63.7 |
| 5/4/2015 2:18:21 | 51.51 | 45.71 | 1,164 | 0.33 | 0.37 | 63.7 |
| 5/4/2015 2:18:22 | 51.84 | 46.04 | 1,164 | 0.33 | 0.37 | 63.7 |
| 5/4/2015 2:18:22 | 52.17 | 46.37 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/4/2015 2:18:22 | 52.49 | 46.69 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/4/2015 2:18:22 | 52.82 | 47.02 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/4/2015 2:18:23 | 53.15 | 47.35 | 1,169 | 0.30 | 0.42 | 63.9 |
| 5/4/2015 2:18:23 | 53.48 | 47.68 | 1,105 | 0.29 | 0.47 | 60.4 |
| 5/4/2015 2:18:30 | 53.81 | 48.01 | 69 | 3.31 | 0.43 | 3.8 |
| 5/4/2015 2:18:33 | 54.13 | 48.33 | 113 | 3.43 | 0.42 | 6.2 |
| 5/4/2015 2:18:33 | 54.46 | 48.66 | 108 | 3.14 | 0.43 | 5.9 |
| 5/4/2015 2:18:34 | 54.79 | 48.99 | 257 | 3.14 | 0.44 | 14.1 |
| 5/4/2015 2:18:37 | 55.12 | 49.32 | 83 | 3.15 | 0.46 | 4.5 |
| 5/4/2015 2:18:41 | 55.45 | 49.65 | 99 | 3.21 | 0.46 | 5.4 |
| 5/4/2015 2:18:44 | 55.77 | 49.97 | 96 | 2.97 | 0.46 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:18:51 | 56.10 | 50.30 | 84 | 2.80 | 0.46 | 4.6 |
| 5/4/2015 | 2:18:54 | 56.43 | 50.63 | 127 | 2.68 | 0.46 | 7.0 |
| 5/4/2015 | 2:19:00 | 56.76 | 50.96 | 61 | 3.16 | 0.47 | 3.3 |
| 5/4/2015 | 2:19:09 | 57.09 | 51.29 | 53 | 3.61 | 0.46 | 2.9 |
| 5/4/2015 | 2:19:16 | 57.41 | 51.61 | 34 | 4.07 | 0.47 | 1.8 |
| 5/4/2015 | 2:19:26 | 57.74 | 51.94 | 45 | 3.33 | 0.47 | 2.5 |
| 5/4/2015 | 2:19:36 | 58.07 | 52.27 | 29 | 3.86 | 0.47 | 1.6 |
| 5/4/2015 | 2:19:44 | 58.40 | 52.60 | 53 | 3.70 | 0.46 | 2.9 |
| 5/4/2015 | 2:19:49 | 58.73 | 52.93 | 81 | 4.00 | 0.46 | 4.4 |
| 5/4/2015 | 2:19:56 | 59.06 | 53.26 | 38 | 3.60 | 0.46 | 2.1 |
| 5/4/2015 | 2:20:00 | 59.38 | 53.58 | 87 | 3.92 | 0.46 | 4.7 |
| 5/4/2015 | 2:20:04 | 59.71 | 53.91 | 94 | 3.92 | 0.47 | 5.1 |
| 5/4/2015 | 2:20:08 | 60.04 | 54.24 | 88 | 3.64 | 0.46 | 4.8 |
| 5/4/2015 | 2:20:11 | 60.37 | 54.57 | 93 | 3.07 | 0.46 | 5.1 |
| 5/4/2015 | 2:20:16 | 60.70 | 54.90 | 83 | 2.97 | 0.46 | 4.6 |
| 5/4/2015 | 2:20:20 | 61.02 | 55.22 | 92 | 3.25 | 0.46 | 5.0 |
| 5/4/2015 | 2:20:20 | 61.12 | 55.32 | 98 | 3.33 | 0.46 | 5.4 |

## P1022 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 2:16:33

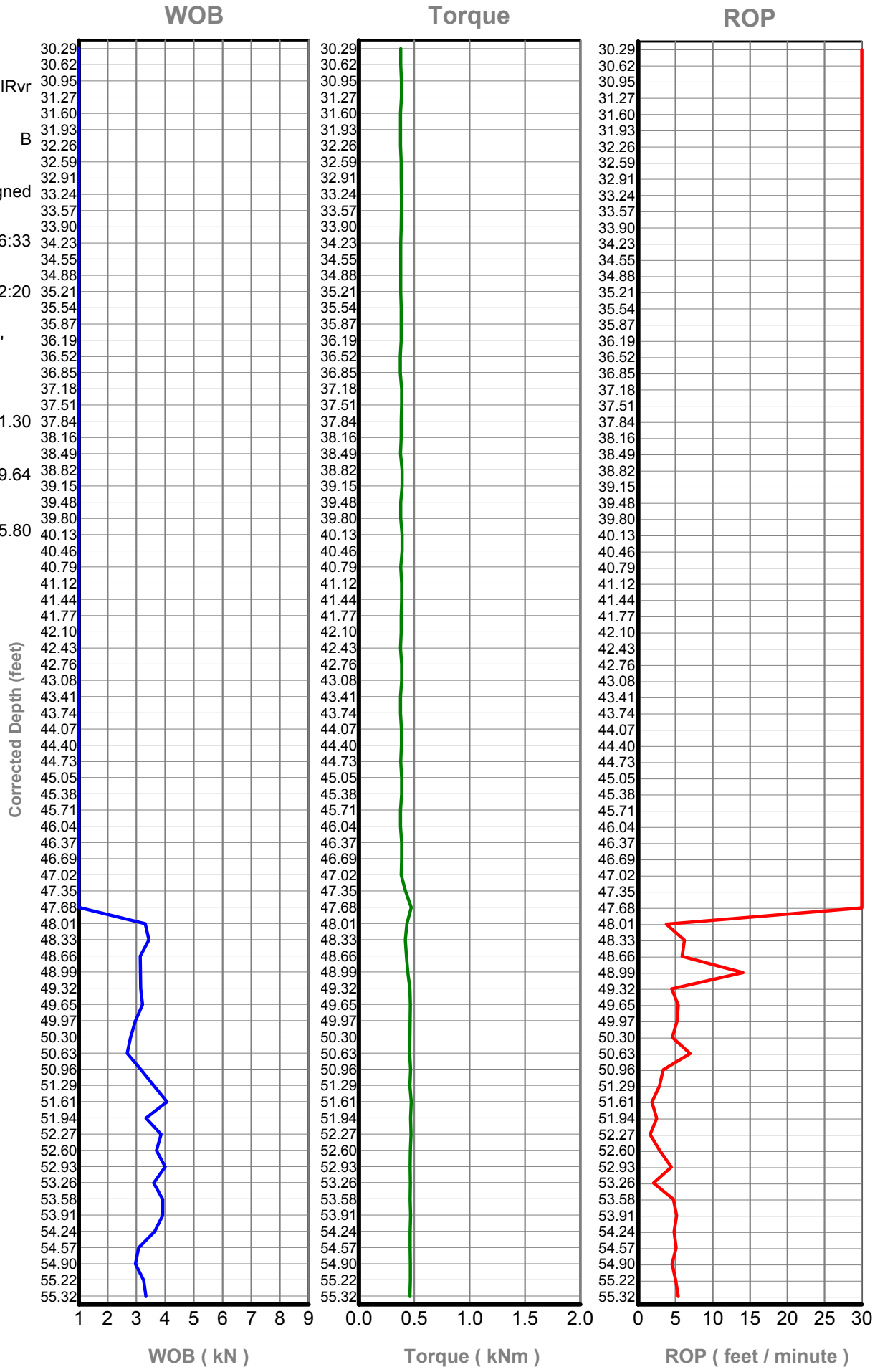
**End Date:**
5/4/2015 2:22:20

**Operator Note:**
'5.8 6.1b Auto Complete'

**Northing:**
348,571.30

**Easting:**
224,069.64

**Tide (feet):**
5.80



## Hole: P1023 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:16:26 | 36.09 | 30.29 | 996 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 2:16:27 | 36.42 | 30.62 | 996 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 2:16:27 | 36.75 | 30.95 | 996 | 1.14 | 0.29 | 54.5 |
| 5/4/2015 2:16:27 | 37.07 | 31.27 | 1,011 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 2:16:28 | 37.40 | 31.60 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/4/2015 2:16:28 | 37.73 | 31.93 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/4/2015 2:16:28 | 38.06 | 32.26 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:29 | 38.39 | 32.59 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/4/2015 2:16:29 | 38.71 | 32.91 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/4/2015 2:16:29 | 39.04 | 33.24 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/4/2015 2:16:30 | 39.37 | 33.57 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:30 | 39.70 | 33.90 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:30 | 40.03 | 34.23 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:31 | 40.35 | 34.55 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:32 | 40.68 | 34.88 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:31 | 41.01 | 35.21 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:16:32 | 41.34 | 35.54 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:33 | 41.67 | 35.87 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:33 | 41.99 | 36.19 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/4/2015 2:16:33 | 42.32 | 36.52 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:34 | 42.65 | 36.85 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:34 | 42.98 | 37.18 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:16:34 | 43.31 | 37.51 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:16:35 | 43.64 | 37.84 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:16:35 | 43.96 | 38.16 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:16:35 | 44.29 | 38.49 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 2:16:36 | 44.62 | 38.82 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:16:36 | 44.95 | 39.15 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:16:36 | 45.28 | 39.48 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:37 | 45.60 | 39.80 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:37 | 45.93 | 40.13 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:37 | 46.26 | 40.46 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 2:16:38 | 46.59 | 40.79 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 2:16:38 | 46.92 | 41.12 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 2:16:38 | 47.24 | 41.44 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:39 | 47.57 | 41.77 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 2:16:39 | 47.90 | 42.10 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 2:16:39 | 48.23 | 42.43 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:40 | 48.56 | 42.76 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:16:40 | 48.88 | 43.08 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:16:40 | 49.21 | 43.41 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:41 | 49.54 | 43.74 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 2:16:41 | 49.87 | 44.07 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 2:16:41 | 50.20 | 44.40 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:42 | 50.53 | 44.73 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:42 | 50.85 | 45.05 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:42 | 51.18 | 45.38 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 2:16:43 | 51.51 | 45.71 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:43 | 51.84 | 46.04 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:44 | 52.17 | 46.37 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:16:44 | 52.49 | 46.69 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 2:16:45 | 52.82 | 47.02 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 2:17:00 | 53.15 | 47.35 | 15 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 2:17:01 | 53.48 | 47.68 | 143 | 1.14 | 0.29 | 7.8 |
| 5/4/2015 2:17:02 | 53.81 | 48.01 | 264 | 1.14 | 0.29 | 14.5 |
| 5/4/2015 2:17:08 | 54.13 | 48.33 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 2:17:11 | 54.46 | 48.66 | 94 | 1.14 | 0.29 | 5.1 |
| 5/4/2015 2:17:12 | 54.79 | 48.99 | 174 | 1.14 | 0.29 | 9.5 |
| 5/4/2015 2:17:12 | 55.12 | 49.32 | 298 | 1.14 | 0.29 | 16.3 |
| 5/4/2015 2:17:13 | 55.45 | 49.65 | 474 | 1.14 | 0.29 | 25.9 |
| 5/4/2015 2:17:20 | 55.77 | 49.97 | 47 | 1.14 | 0.29 | 2.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:17:23 | 56.10 | 50.30 | 122 | 1.14 | 0.29 | 6.7 |
| 5/4/2015 | 2:17:27 | 56.43 | 50.63 | 96 | 1.14 | 0.29 | 5.2 |
| 5/4/2015 | 2:17:32 | 56.76 | 50.96 | 75 | 1.14 | 0.29 | 4.1 |
| 5/4/2015 | 2:17:36 | 57.09 | 51.29 | 84 | 1.14 | 0.29 | 4.6 |
| 5/4/2015 | 2:17:40 | 57.41 | 51.61 | 90 | 1.14 | 0.29 | 4.9 |
| 5/4/2015 | 2:17:44 | 57.74 | 51.94 | 96 | 1.14 | 0.29 | 5.2 |
| 5/4/2015 | 2:17:47 | 58.07 | 52.27 | 128 | 1.14 | 0.29 | 7.0 |
| 5/4/2015 | 2:17:50 | 58.40 | 52.60 | 119 | 1.14 | 0.29 | 6.5 |
| 5/4/2015 | 2:17:55 | 58.73 | 52.93 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 2:18:11 | 59.06 | 53.26 | 64 | 1.14 | 0.29 | 3.5 |
| 5/4/2015 | 2:18:17 | 59.38 | 53.58 | 73 | 1.14 | 0.29 | 4.0 |
| 5/4/2015 | 2:18:23 | 59.71 | 53.91 | 76 | 1.14 | 0.29 | 4.2 |
| 5/4/2015 | 2:18:28 | 60.04 | 54.24 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 2:18:34 | 60.37 | 54.57 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 2:18:40 | 60.70 | 54.90 | 52 | 1.14 | 0.29 | 2.9 |
| 5/4/2015 | 2:18:47 | 61.02 | 55.22 | 52 | 1.14 | 0.29 | 2.9 |
| 5/4/2015 | 2:18:49 | 61.08 | 55.28 | 46 | 1.14 | 0.29 | 2.5 |

## P1023 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 2:15:19

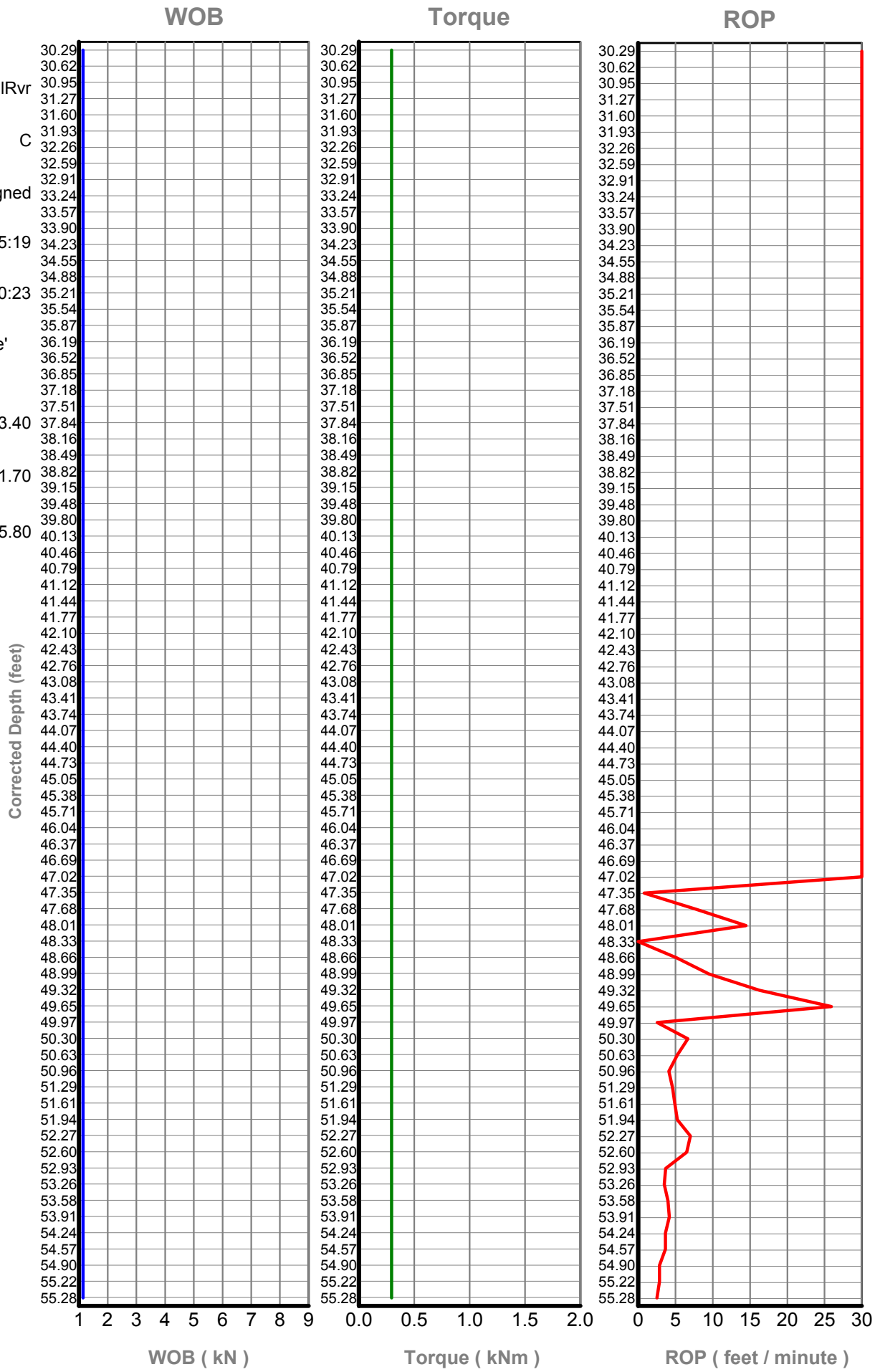
**End Date:**
5/4/2015 2:20:23

**Operator Note:**
'5.8 6.1 c Auto Complete'

**Northing:**
348,613.40

**Easting:**
224,131.70

**Tide (feet):**
5.80



## Hole: P1024 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:42:02 | 35.43 | 30.13 | 1,058 | 1.56 | 0.24 | 57.8 |
| 5/4/2015 2:42:03 | 35.76 | 30.46 | 1,064 | 1.55 | 0.24 | 58.2 |
| 5/4/2015 2:42:03 | 36.09 | 30.79 | 1,064 | 1.55 | 0.24 | 58.2 |
| 5/4/2015 2:42:03 | 36.42 | 31.12 | 1,058 | 1.55 | 0.24 | 57.9 |
| 5/4/2015 2:42:04 | 36.75 | 31.45 | 1,061 | 1.56 | 0.24 | 58.0 |
| 5/4/2015 2:42:04 | 37.07 | 31.77 | 1,061 | 1.56 | 0.24 | 58.0 |
| 5/4/2015 2:42:04 | 37.40 | 32.10 | 1,064 | 1.55 | 0.24 | 58.2 |
| 5/4/2015 2:42:05 | 37.73 | 32.43 | 1,064 | 1.55 | 0.24 | 58.2 |
| 5/4/2015 2:42:05 | 38.06 | 32.76 | 1,061 | 1.56 | 0.24 | 58.0 |
| 5/4/2015 2:42:05 | 38.39 | 33.09 | 1,071 | 1.55 | 0.24 | 58.6 |
| 5/4/2015 2:42:06 | 38.71 | 33.41 | 1,071 | 1.55 | 0.24 | 58.6 |
| 5/4/2015 2:42:06 | 39.04 | 33.74 | 1,064 | 1.57 | 0.24 | 58.2 |
| 5/4/2015 2:42:06 | 39.37 | 34.07 | 1,055 | 1.57 | 0.24 | 57.7 |
| 5/4/2015 2:42:07 | 39.70 | 34.40 | 1,055 | 1.57 | 0.24 | 57.7 |
| 5/4/2015 2:42:07 | 40.03 | 34.73 | 1,062 | 1.58 | 0.24 | 58.1 |
| 5/4/2015 2:42:07 | 40.35 | 35.05 | 1,062 | 1.57 | 0.23 | 58.1 |
| 5/4/2015 2:42:08 | 40.68 | 35.38 | 1,062 | 1.57 | 0.23 | 58.1 |
| 5/4/2015 2:42:08 | 41.01 | 35.71 | 1,055 | 1.57 | 0.24 | 57.7 |
| 5/4/2015 2:42:08 | 41.34 | 36.04 | 1,055 | 1.55 | 0.24 | 57.7 |
| 5/4/2015 2:42:09 | 41.67 | 36.37 | 1,055 | 1.55 | 0.24 | 57.7 |
| 5/4/2015 2:42:09 | 41.99 | 36.69 | 1,065 | 1.56 | 0.23 | 58.2 |
| 5/4/2015 2:42:09 | 42.32 | 37.02 | 1,052 | 0.27 | 0.13 | 57.5 |
| 5/4/2015 2:42:42 | 42.65 | 37.35 | 0 | 1.49 | 0.24 | 0.0 |
| 5/4/2015 2:42:43 | 42.98 | 37.68 | 182 | 1.69 | 0.24 | 10.0 |
| 5/4/2015 2:42:43 | 43.31 | 38.01 | 182 | 1.69 | 0.24 | 10.0 |
| 5/4/2015 2:42:43 | 43.64 | 38.34 | 388 | 1.68 | 0.24 | 21.2 |
| 5/4/2015 2:42:44 | 43.96 | 38.66 | 388 | 1.68 | 0.24 | 21.2 |
| 5/4/2015 2:42:44 | 44.29 | 38.99 | 599 | 1.72 | 0.24 | 32.8 |
| 5/4/2015 2:42:45 | 44.62 | 39.32 | 817 | 1.39 | 0.24 | 44.7 |
| 5/4/2015 2:42:45 | 44.95 | 39.65 | 817 | 1.39 | 0.24 | 44.7 |
| 5/4/2015 2:42:45 | 45.28 | 39.98 | 1,017 | 1.65 | 0.24 | 55.6 |
| 5/4/2015 2:42:46 | 45.60 | 40.30 | 1,032 | 1.71 | 0.24 | 56.4 |
| 5/4/2015 2:42:46 | 45.93 | 40.63 | 1,026 | 1.47 | 0.24 | 56.1 |
| 5/4/2015 2:42:47 | 46.26 | 40.96 | 1,026 | 1.47 | 0.24 | 56.1 |
| 5/4/2015 2:42:47 | 46.59 | 41.29 | 1,026 | 1.55 | 0.23 | 56.1 |
| 5/4/2015 2:42:47 | 46.92 | 41.62 | 1,026 | 1.55 | 0.23 | 56.1 |
| 5/4/2015 2:42:47 | 47.24 | 41.94 | 1,023 | 1.55 | 0.23 | 55.9 |
| 5/4/2015 2:42:48 | 47.57 | 42.27 | 1,032 | 1.56 | 0.23 | 56.4 |
| 5/4/2015 2:42:48 | 47.90 | 42.60 | 1,032 | 1.56 | 0.23 | 56.4 |
| 5/4/2015 2:42:48 | 48.23 | 42.93 | 1,040 | 1.55 | 0.23 | 56.9 |
| 5/4/2015 2:42:49 | 48.56 | 43.26 | 1,055 | 1.57 | 0.23 | 57.7 |
| 5/4/2015 2:42:49 | 48.88 | 43.58 | 1,055 | 1.57 | 0.23 | 57.7 |
| 5/4/2015 2:42:49 | 49.21 | 43.91 | 1,049 | 1.55 | 0.23 | 57.4 |
| 5/4/2015 2:42:50 | 49.54 | 44.24 | 1,041 | 2.06 | 0.23 | 56.9 |
| 5/4/2015 2:43:03 | 49.87 | 44.57 | 60 | 1.72 | 1.00 | 3.3 |
| 5/4/2015 2:43:04 | 50.20 | 44.90 | 229 | 2.63 | 1.73 | 12.5 |
| 5/4/2015 2:43:12 | 50.53 | 45.23 | 0 | 2.04 | 0.75 | 0.0 |
| 5/4/2015 2:43:13 | 50.85 | 45.55 | 91 | 3.12 | 1.86 | 5.0 |
| 5/4/2015 2:43:19 | 51.18 | 45.88 | 21 | 3.03 | 1.47 | 1.1 |
| 5/4/2015 2:43:21 | 51.51 | 46.21 | 151 | 3.03 | 1.46 | 8.3 |
| 5/4/2015 2:43:40 | 51.84 | 46.54 | 27 | 3.00 | 1.44 | 1.5 |
| 5/4/2015 2:43:48 | 52.17 | 46.87 | 60 | 2.84 | 1.52 | 3.3 |
| 5/4/2015 2:43:50 | 52.49 | 47.19 | 186 | 2.77 | 1.41 | 10.2 |
| 5/4/2015 2:43:51 | 52.82 | 47.52 | 186 | 2.42 | 0.94 | 10.2 |
| 5/4/2015 2:43:51 | 53.15 | 47.85 | 258 | 2.28 | 0.94 | 14.1 |
| 5/4/2015 2:44:07 | 53.48 | 48.18 | 49 | 2.57 | 1.15 | 2.7 |
| 5/4/2015 2:44:08 | 53.81 | 48.51 | 137 | 2.61 | 1.21 | 7.5 |
| 5/4/2015 2:44:09 | 54.13 | 48.83 | 294 | 2.71 | 1.50 | 16.1 |
| 5/4/2015 2:44:28 | 54.46 | 49.16 | 0 | 2.63 | 1.02 | 0.0 |
| 5/4/2015 2:44:29 | 54.79 | 49.49 | 54 | 2.77 | 1.04 | 3.0 |
| 5/4/2015 2:44:32 | 55.12 | 49.82 | 157 | 2.30 | 1.14 | 8.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:44:32 | 55.45 | 50.15 | 205 | 2.27 | 1.25 | 11.2 |
| 5/4/2015 | 2:44:33 | 55.77 | 50.47 | 249 | 2.33 | 1.13 | 13.6 |
| 5/4/2015 | 2:44:34 | 56.10 | 50.80 | 283 | 2.33 | 1.26 | 15.5 |
| 5/4/2015 | 2:44:35 | 56.43 | 51.13 | 345 | 2.42 | 1.32 | 18.9 |
| 5/4/2015 | 2:44:36 | 56.76 | 51.46 | 419 | 2.44 | 1.35 | 22.9 |
| 5/4/2015 | 2:44:36 | 57.09 | 51.79 | 402 | 2.40 | 1.33 | 22.0 |
| 5/4/2015 | 2:44:38 | 57.41 | 52.11 | 368 | 2.49 | 1.47 | 20.1 |
| 5/4/2015 | 2:44:39 | 57.74 | 52.44 | 332 | 2.56 | 1.43 | 18.1 |
| 5/4/2015 | 2:44:40 | 58.07 | 52.77 | 307 | 2.46 | 1.41 | 16.8 |
| 5/4/2015 | 2:44:41 | 58.40 | 53.10 | 291 | 2.44 | 1.48 | 15.9 |
| 5/4/2015 | 2:44:42 | 58.73 | 53.43 | 317 | 2.46 | 1.46 | 17.3 |
| 5/4/2015 | 2:45:14 | 59.06 | 53.76 | 0 | 2.68 | 1.37 | 0.0 |
| 5/4/2015 | 2:46:25 | 59.38 | 54.08 | 94 | 2.57 | 1.42 | 5.1 |
| 5/4/2015 | 2:46:26 | 59.71 | 54.41 | 203 | 2.52 | 1.45 | 11.1 |
| 5/4/2015 | 2:46:28 | 60.04 | 54.74 | 245 | 2.60 | 1.50 | 13.4 |
| 5/4/2015 | 2:46:29 | 60.37 | 55.07 | 205 | 2.61 | 1.54 | 11.2 |
| 5/4/2015 | 2:46:32 | 60.70 | 55.40 | 162 | 2.53 | 1.64 | 8.8 |
| 5/4/2015 | 2:46:33 | 60.78 | 55.48 | 128 | 2.86 | 1.71 | 7.0 |

## P1024 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
New

**Start Date:**
5/4/2015 2:40:52

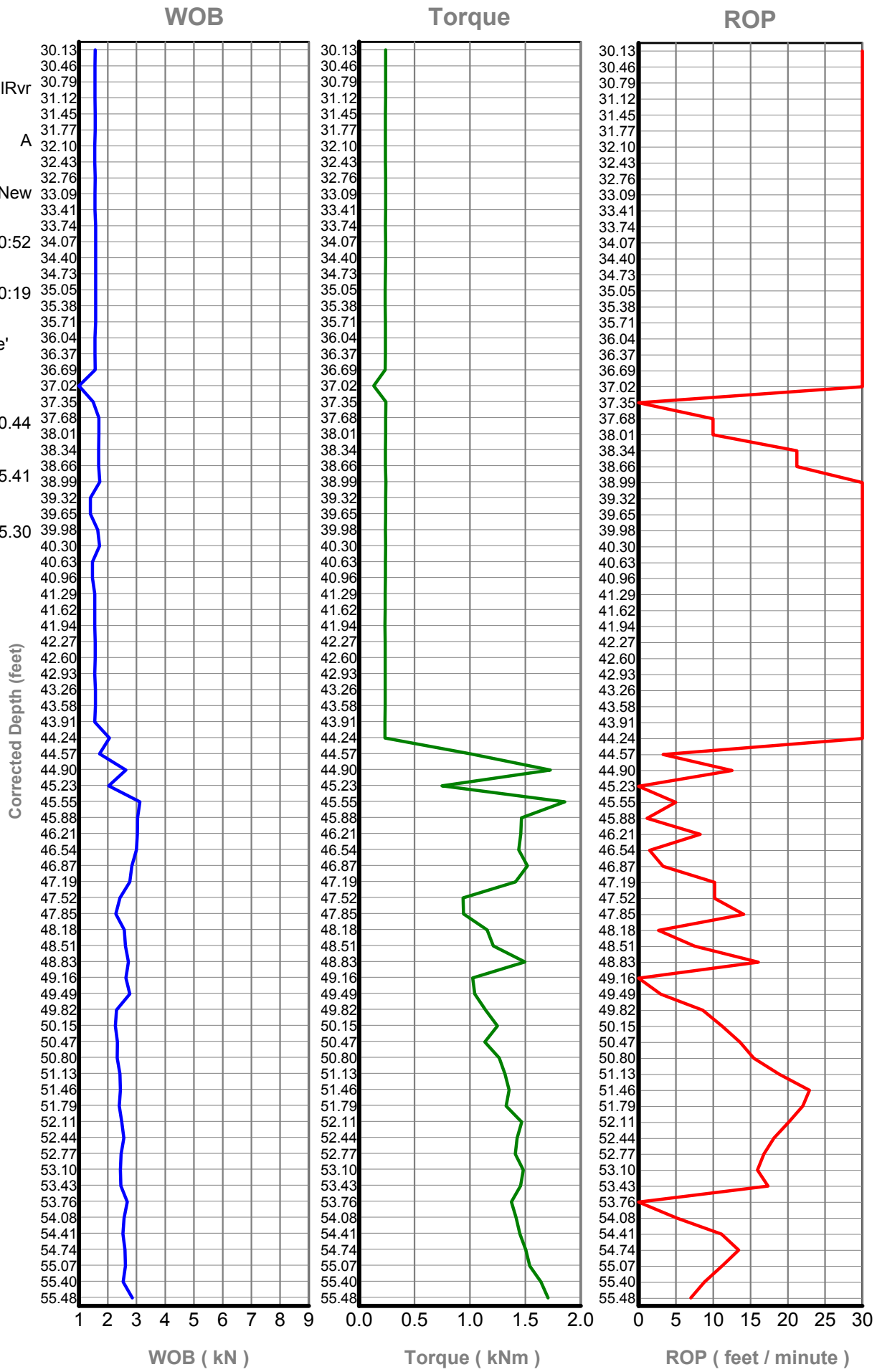
**End Date:**
5/4/2015 2:50:19

**Operator Note:**
'5.3 5.8 a Auto Complete'

**Northing:**
348,460.44

**Easting:**
224,045.41

**Tide (feet):**
5.30



## Hole: P1025 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:39:43 | 35.76 | 30.16 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:43 | 36.09 | 30.49 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:43 | 36.42 | 30.82 | 1,098 | 0.37 | 0.39 | 60.1 |
| 5/4/2015 2:39:44 | 36.75 | 31.15 | 1,092 | 0.37 | 0.39 | 59.7 |
| 5/4/2015 2:39:44 | 37.07 | 31.47 | 1,092 | 0.37 | 0.39 | 59.7 |
| 5/4/2015 2:39:44 | 37.40 | 31.80 | 1,098 | 0.37 | 0.38 | 60.1 |
| 5/4/2015 2:39:45 | 37.73 | 32.13 | 1,096 | 0.37 | 0.39 | 59.9 |
| 5/4/2015 2:39:45 | 38.06 | 32.46 | 1,096 | 0.37 | 0.39 | 59.9 |
| 5/4/2015 2:39:45 | 38.39 | 32.79 | 1,098 | 0.37 | 0.39 | 60.1 |
| 5/4/2015 2:39:46 | 38.71 | 33.11 | 1,098 | 0.37 | 0.39 | 60.1 |
| 5/4/2015 2:39:46 | 39.04 | 33.44 | 1,101 | 0.38 | 0.38 | 60.2 |
| 5/4/2015 2:39:46 | 39.37 | 33.77 | 1,107 | 0.37 | 0.39 | 60.5 |
| 5/4/2015 2:39:47 | 39.70 | 34.10 | 1,107 | 0.37 | 0.39 | 60.5 |
| 5/4/2015 2:39:47 | 40.03 | 34.43 | 1,107 | 0.37 | 0.38 | 60.5 |
| 5/4/2015 2:39:47 | 40.35 | 34.75 | 1,107 | 0.37 | 0.38 | 60.5 |
| 5/4/2015 2:39:47 | 40.68 | 35.08 | 1,104 | 0.37 | 0.39 | 60.4 |
| 5/4/2015 2:39:48 | 41.01 | 35.41 | 1,097 | 0.37 | 0.38 | 60.0 |
| 5/4/2015 2:39:48 | 41.34 | 35.74 | 1,097 | 0.37 | 0.38 | 60.0 |
| 5/4/2015 2:39:48 | 41.67 | 36.07 | 1,107 | 0.37 | 0.38 | 60.5 |
| 5/4/2015 2:39:49 | 41.99 | 36.39 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:49 | 42.32 | 36.72 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:50 | 42.65 | 37.05 | 1,099 | 0.31 | 0.38 | 60.1 |
| 5/4/2015 2:39:50 | 42.98 | 37.38 | 1,099 | 0.31 | 0.38 | 60.1 |
| 5/4/2015 2:39:50 | 43.31 | 37.71 | 1,093 | 0.37 | 0.39 | 59.7 |
| 5/4/2015 2:39:51 | 43.64 | 38.04 | 1,102 | 0.37 | 0.39 | 60.3 |
| 5/4/2015 2:39:51 | 43.96 | 38.36 | 1,102 | 0.37 | 0.39 | 60.3 |
| 5/4/2015 2:39:51 | 44.29 | 38.69 | 1,086 | 0.37 | 0.37 | 59.4 |
| 5/4/2015 2:39:52 | 44.62 | 39.02 | 1,100 | 0.36 | 0.39 | 60.1 |
| 5/4/2015 2:39:52 | 44.95 | 39.35 | 1,100 | 0.36 | 0.39 | 60.1 |
| 5/4/2015 2:39:52 | 45.28 | 39.68 | 1,093 | 0.38 | 0.39 | 59.8 |
| 5/4/2015 2:39:53 | 45.60 | 40.00 | 1,093 | 0.38 | 0.39 | 59.8 |
| 5/4/2015 2:39:53 | 45.93 | 40.33 | 1,102 | 0.37 | 0.38 | 60.3 |
| 5/4/2015 2:39:53 | 46.26 | 40.66 | 1,096 | 0.37 | 0.38 | 60.0 |
| 5/4/2015 2:39:54 | 46.59 | 40.99 | 1,096 | 0.37 | 0.38 | 60.0 |
| 5/4/2015 2:39:54 | 46.92 | 41.32 | 1,109 | 0.35 | 0.38 | 60.7 |
| 5/4/2015 2:39:54 | 47.24 | 41.64 | 1,096 | 0.36 | 0.38 | 59.9 |
| 5/4/2015 2:39:55 | 47.57 | 41.97 | 1,096 | 0.36 | 0.38 | 59.9 |
| 5/4/2015 2:39:55 | 47.90 | 42.30 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:55 | 48.23 | 42.63 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:55 | 48.56 | 42.96 | 1,101 | 0.37 | 0.38 | 60.2 |
| 5/4/2015 2:39:56 | 48.88 | 43.28 | 1,102 | 0.36 | 0.40 | 60.3 |
| 5/4/2015 2:39:56 | 49.21 | 43.61 | 1,102 | 0.36 | 0.40 | 60.3 |
| 5/4/2015 2:39:56 | 49.54 | 43.94 | 1,092 | 0.36 | 0.38 | 59.7 |
| 5/4/2015 2:39:57 | 49.87 | 44.27 | 1,095 | 0.36 | 0.38 | 59.9 |
| 5/4/2015 2:39:57 | 50.20 | 44.60 | 1,095 | 0.36 | 0.38 | 59.9 |
| 5/4/2015 2:39:57 | 50.53 | 44.93 | 1,092 | 0.34 | 0.43 | 59.7 |
| 5/4/2015 2:40:05 | 50.85 | 45.25 | 60 | 6.08 | 0.48 | 3.3 |
| 5/4/2015 2:40:09 | 51.18 | 45.58 | 79 | 4.48 | 0.47 | 4.3 |
| 5/4/2015 2:40:12 | 51.51 | 45.91 | 139 | 4.05 | 0.47 | 7.6 |
| 5/4/2015 2:40:14 | 51.84 | 46.24 | 145 | 3.60 | 0.46 | 7.9 |
| 5/4/2015 2:40:19 | 52.17 | 46.57 | 51 | 3.75 | 0.47 | 2.8 |
| 5/4/2015 2:40:24 | 52.49 | 46.89 | 66 | 3.48 | 0.47 | 3.6 |
| 5/4/2015 2:40:31 | 52.82 | 47.22 | 32 | 2.93 | 0.44 | 1.7 |
| 5/4/2015 2:40:32 | 53.15 | 47.55 | 106 | 3.45 | 0.44 | 5.8 |
| 5/4/2015 2:40:33 | 53.48 | 47.88 | 198 | 3.26 | 0.44 | 10.8 |
| 5/4/2015 2:40:33 | 53.81 | 48.21 | 286 | 2.92 | 0.43 | 15.6 |
| 5/4/2015 2:40:34 | 54.13 | 48.53 | 506 | 2.64 | 0.42 | 27.7 |
| 5/4/2015 2:40:35 | 54.46 | 48.86 | 570 | 2.64 | 0.42 | 31.2 |
| 5/4/2015 2:40:35 | 54.79 | 49.19 | 607 | 2.64 | 0.42 | 33.2 |
| 5/4/2015 2:40:36 | 55.12 | 49.52 | 645 | 2.70 | 0.42 | 35.3 |
| 5/4/2015 2:40:36 | 55.45 | 49.85 | 665 | 2.57 | 0.42 | 36.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:40:37 | 55.77 | 50.17 | 679 | 2.59 | 0.43 | 37.1 |
| 5/4/2015 | 2:40:37 | 56.10 | 50.50 | 668 | 2.66 | 0.43 | 36.5 |
| 5/4/2015 | 2:40:38 | 56.43 | 50.83 | 648 | 2.57 | 0.42 | 35.4 |
| 5/4/2015 | 2:40:38 | 56.76 | 51.16 | 629 | 2.91 | 0.44 | 34.4 |
| 5/4/2015 | 2:40:39 | 57.09 | 51.49 | 555 | 2.95 | 0.44 | 30.4 |
| 5/4/2015 | 2:40:40 | 57.41 | 51.81 | 434 | 3.39 | 0.47 | 23.7 |
| 5/4/2015 | 2:41:12 | 57.74 | 52.14 | 56 | 3.06 | 0.43 | 3.1 |
| 5/4/2015 | 2:41:13 | 58.07 | 52.47 | 135 | 2.81 | 0.44 | 7.4 |
| 5/4/2015 | 2:41:15 | 58.40 | 52.80 | 312 | 3.39 | 0.48 | 17.1 |
| 5/4/2015 | 2:41:17 | 58.73 | 53.13 | 134 | 3.12 | 0.47 | 7.3 |
| 5/4/2015 | 2:41:30 | 59.06 | 53.46 | 74 | 3.18 | 0.46 | 4.0 |
| 5/4/2015 | 2:41:41 | 59.38 | 53.78 | 38 | 2.95 | 0.47 | 2.1 |
| 5/4/2015 | 2:41:49 | 59.71 | 54.11 | 29 | 3.47 | 0.47 | 1.6 |
| 5/4/2015 | 2:41:54 | 60.04 | 54.44 | 29 | 3.86 | 0.46 | 1.6 |
| 5/4/2015 | 2:42:06 | 60.37 | 54.77 | 35 | 4.49 | 0.47 | 1.9 |
| 5/4/2015 | 2:42:40 | 60.70 | 55.10 | 0 | 3.98 | 0.47 | 0.0 |
| 5/4/2015 | 2:42:50 | 60.75 | 55.15 | 0 | 3.75 | 0.46 | 0.0 |

## P1025 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 2:38:12

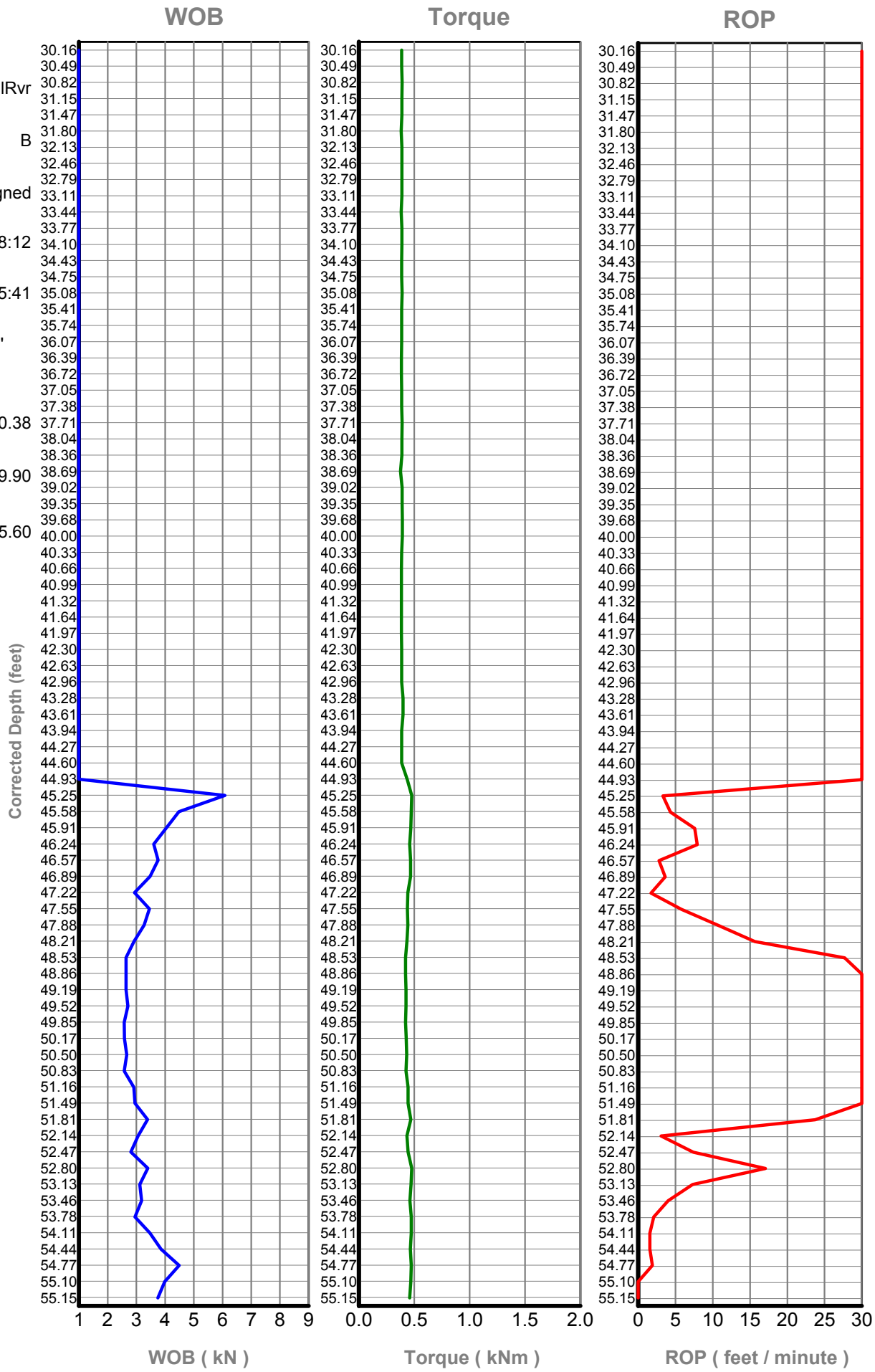
**End Date:**
5/4/2015 2:45:41

**Operator Note:**
'5.6 5.8b Auto Complete'

**Northing:**
348,500.38

**Easting:**
224,109.90

**Tide (feet):**
5.60



## Hole: P1026 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 2:38:32 | 35.76 | 30.16 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 2:38:33 | 36.09 | 30.49 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 2:38:33 | 36.42 | 30.82 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:33 | 36.75 | 31.15 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:34 | 37.07 | 31.47 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:34 | 37.40 | 31.80 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:34 | 37.73 | 32.13 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:35 | 38.06 | 32.46 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:35 | 38.39 | 32.79 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 2:38:36 | 38.71 | 33.11 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/4/2015 2:38:36 | 39.04 | 33.44 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/4/2015 2:38:36 | 39.37 | 33.77 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:38:37 | 39.70 | 34.10 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:38:37 | 40.03 | 34.43 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 2:38:37 | 40.35 | 34.75 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:38:38 | 40.68 | 35.08 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:38:38 | 41.01 | 35.41 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 2:38:38 | 41.34 | 35.74 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 2:38:39 | 41.67 | 36.07 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 2:38:39 | 41.99 | 36.39 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 2:38:39 | 42.32 | 36.72 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 2:38:40 | 42.65 | 37.05 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/4/2015 2:38:40 | 42.98 | 37.38 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/4/2015 2:38:40 | 43.31 | 37.71 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:41 | 43.64 | 38.04 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:41 | 43.96 | 38.36 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:41 | 44.29 | 38.69 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:42 | 44.62 | 39.02 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:38:42 | 44.95 | 39.35 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 2:38:42 | 45.28 | 39.68 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:38:43 | 45.60 | 40.00 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:38:43 | 45.93 | 40.33 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:38:43 | 46.26 | 40.66 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 2:38:44 | 46.59 | 40.99 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 2:38:44 | 46.92 | 41.32 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 2:38:44 | 47.24 | 41.64 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 2:38:45 | 47.57 | 41.97 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:45 | 47.90 | 42.30 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:45 | 48.23 | 42.63 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 2:38:46 | 48.56 | 42.96 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/4/2015 2:38:47 | 48.88 | 43.28 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/4/2015 2:38:46 | 49.21 | 43.61 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:38:47 | 49.54 | 43.94 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:38:47 | 49.87 | 44.27 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/4/2015 2:39:04 | 50.20 | 44.60 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 2:39:05 | 50.53 | 44.93 | 113 | 1.14 | 0.29 | 6.2 |
| 5/4/2015 2:39:06 | 50.85 | 45.25 | 215 | 1.14 | 0.29 | 11.8 |
| 5/4/2015 2:39:10 | 51.18 | 45.58 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 2:39:25 | 51.51 | 45.91 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 2:39:29 | 51.84 | 46.24 | 44 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 2:39:33 | 52.17 | 46.57 | 85 | 1.14 | 0.29 | 4.7 |
| 5/4/2015 2:39:48 | 52.49 | 46.89 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 2:39:49 | 52.82 | 47.22 | 163 | 1.14 | 0.29 | 8.9 |
| 5/4/2015 2:39:52 | 53.15 | 47.55 | 52 | 1.14 | 0.29 | 2.8 |
| 5/4/2015 2:39:52 | 53.48 | 47.88 | 126 | 1.14 | 0.29 | 6.9 |
| 5/4/2015 2:40:06 | 53.81 | 48.21 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 2:40:13 | 54.13 | 48.53 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 2:40:41 | 54.46 | 48.86 | 119 | 1.14 | 0.29 | 6.5 |
| 5/4/2015 2:40:42 | 54.79 | 49.19 | 222 | 1.14 | 0.29 | 12.1 |
| 5/4/2015 2:40:42 | 55.12 | 49.52 | 330 | 1.14 | 0.29 | 18.1 |
| 5/4/2015 2:40:54 | 55.45 | 49.85 | 129 | 1.14 | 0.29 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 2:40:55 | 55.77 | 50.17 | 212 | 1.14 | 0.29 | 11.6 |
| 5/4/2015 | 2:41:01 | 56.10 | 50.50 | 21 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 | 2:41:01 | 56.43 | 50.83 | 159 | 1.14 | 0.29 | 8.7 |
| 5/4/2015 | 2:41:03 | 56.76 | 51.16 | 258 | 1.14 | 0.29 | 14.1 |
| 5/4/2015 | 2:41:31 | 57.09 | 51.49 | 75 | 1.14 | 0.29 | 4.1 |
| 5/4/2015 | 2:41:35 | 57.41 | 51.81 | 15 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 | 2:41:46 | 57.74 | 52.14 | 64 | 1.14 | 0.29 | 3.5 |
| 5/4/2015 | 2:41:47 | 58.07 | 52.47 | 172 | 1.14 | 0.29 | 9.4 |
| 5/4/2015 | 2:41:57 | 58.40 | 52.80 | 34 | 1.14 | 0.29 | 1.9 |
| 5/4/2015 | 2:41:59 | 58.73 | 53.13 | 163 | 1.14 | 0.29 | 8.9 |
| 5/4/2015 | 2:42:00 | 59.06 | 53.46 | 259 | 1.14 | 0.29 | 14.1 |
| 5/4/2015 | 2:42:14 | 59.38 | 53.78 | 73 | 1.14 | 0.29 | 4.0 |
| 5/4/2015 | 2:42:43 | 59.71 | 54.11 | 51 | 1.14 | 0.29 | 2.8 |
| 5/4/2015 | 2:42:51 | 60.04 | 54.44 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 | 2:42:58 | 60.37 | 54.77 | 58 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 | 2:43:08 | 60.70 | 55.10 | 20 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 | 2:43:13 | 60.80 | 55.20 | 21 | 1.14 | 0.29 | 1.2 |

## P1026 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 2:37:22

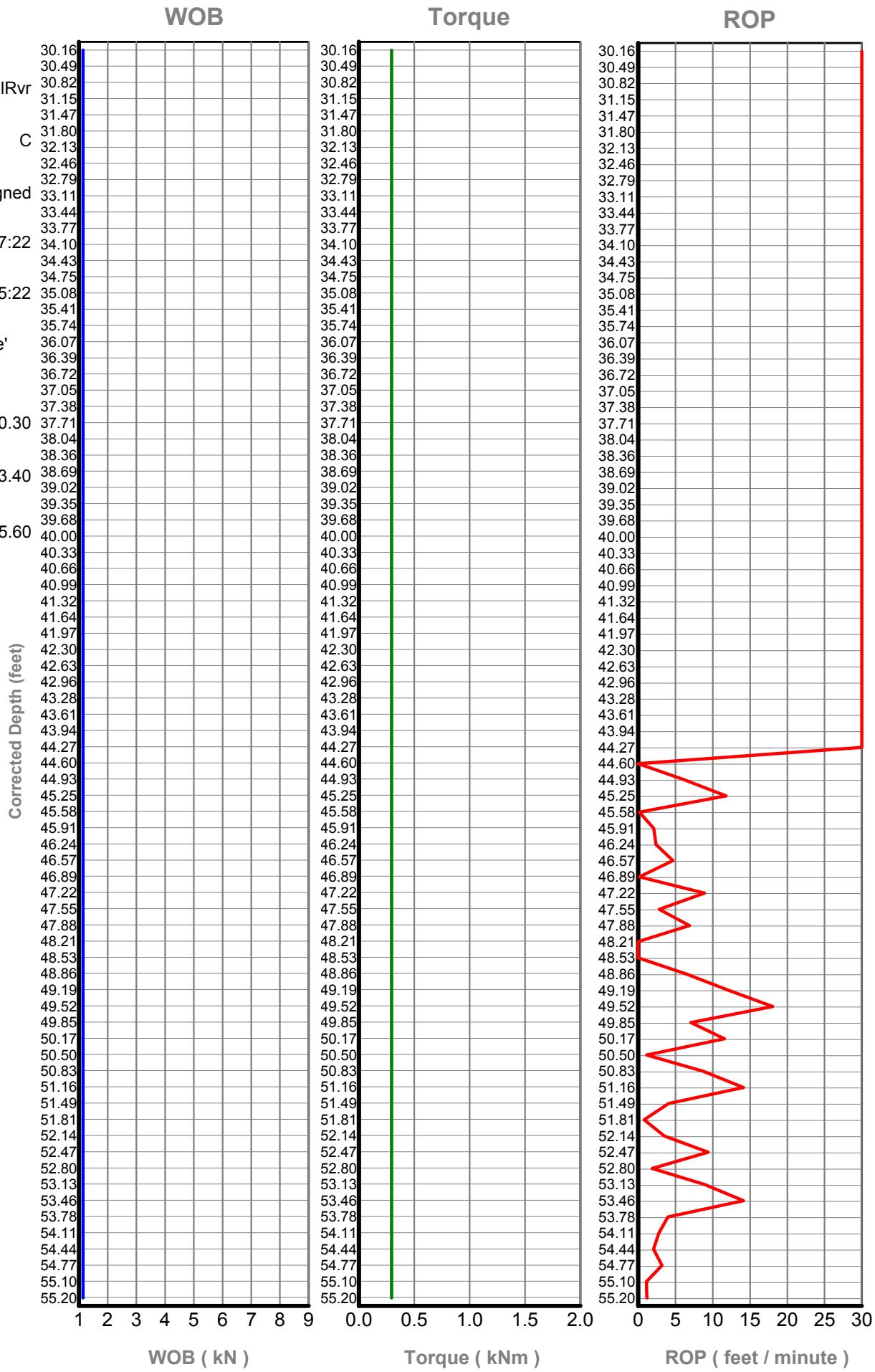
**End Date:**
5/4/2015 2:45:22

**Operator Note:**
'5.6 5.8 c Auto Complete'

**Northing:**
348,540.30

**Easting:**
224,173.40

**Tide (feet):**
5.60



## Hole: P103 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:55:52 | 35.43 | 30.23 | 1,410 | 0.54 | 0.17 | 77.1 |
| 5/3/2015 2:55:52 | 35.76 | 30.56 | 1,410 | 0.54 | 0.17 | 77.1 |
| 5/3/2015 2:55:53 | 36.09 | 30.89 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/3/2015 2:55:53 | 36.42 | 31.22 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/3/2015 2:55:53 | 36.75 | 31.55 | 1,407 | 0.54 | 0.17 | 76.9 |
| 5/3/2015 2:55:53 | 37.07 | 31.87 | 1,407 | 0.54 | 0.17 | 76.9 |
| 5/3/2015 2:55:54 | 37.40 | 32.20 | 1,405 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:54 | 37.73 | 32.53 | 1,405 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:54 | 38.06 | 32.86 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/3/2015 2:55:54 | 38.39 | 33.19 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/3/2015 2:55:55 | 38.71 | 33.51 | 1,405 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:55 | 39.04 | 33.84 | 1,405 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:55 | 39.37 | 34.17 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/3/2015 2:55:56 | 39.70 | 34.50 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/3/2015 2:55:56 | 40.03 | 34.83 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/3/2015 2:55:56 | 40.35 | 35.15 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/3/2015 2:55:56 | 40.68 | 35.48 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/3/2015 2:55:57 | 41.01 | 35.81 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/3/2015 2:55:57 | 41.34 | 36.14 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/3/2015 2:55:57 | 41.67 | 36.47 | 1,404 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:57 | 41.99 | 36.79 | 1,404 | 0.54 | 0.17 | 76.8 |
| 5/3/2015 2:55:57 | 42.32 | 37.12 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/3/2015 2:55:58 | 42.65 | 37.45 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/3/2015 2:56:02 | 42.98 | 37.78 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:56:05 | 43.31 | 38.11 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:56:02 | 43.64 | 38.44 | 197 | 0.54 | 0.17 | 10.8 |
| 5/3/2015 2:56:02 | 43.96 | 38.76 | 197 | 0.54 | 0.17 | 10.8 |
| 5/3/2015 2:56:03 | 44.29 | 39.09 | 474 | 0.54 | 0.17 | 25.9 |
| 5/3/2015 2:56:03 | 44.62 | 39.42 | 474 | 0.54 | 0.17 | 25.9 |
| 5/3/2015 2:56:03 | 44.95 | 39.75 | 757 | 0.54 | 0.17 | 41.4 |
| 5/3/2015 2:56:03 | 45.28 | 40.08 | 757 | 0.54 | 0.17 | 41.4 |
| 5/3/2015 2:56:04 | 45.60 | 40.40 | 1,031 | 0.54 | 0.17 | 56.4 |
| 5/3/2015 2:56:04 | 45.93 | 40.73 | 1,031 | 0.54 | 0.17 | 56.4 |
| 5/3/2015 2:56:04 | 46.26 | 41.06 | 1,314 | 0.54 | 0.17 | 71.8 |
| 5/3/2015 2:56:05 | 46.59 | 41.39 | 1,314 | 0.54 | 0.17 | 71.8 |
| 5/3/2015 2:56:05 | 46.92 | 41.72 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 2:56:05 | 47.24 | 42.04 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 2:56:05 | 47.57 | 42.37 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 2:56:05 | 47.90 | 42.70 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 2:56:06 | 48.23 | 43.03 | 1,347 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 2:56:22 | 48.56 | 43.36 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 2:56:31 | 48.88 | 43.68 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:56:47 | 49.21 | 44.01 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 2:57:03 | 49.54 | 44.34 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 2:57:19 | 49.87 | 44.67 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 2:57:20 | 49.90 | 44.70 | 20 | 0.54 | 0.17 | 1.1 |

## P103 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:43:38

**End Date:**
5/3/2015 2:58:17

**Operator Note:**
'5.2 5.2 a Auto Complete'

**Northing:**
349,252.70

**Easting:**
224,879.12

**Tide (feet):**
5.20



## Hole: P104 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:55:20 | 35.11 | 30.21 | 1,288 | 0.31 | 0.38 | 70.4 |
| 5/3/2015 2:55:20 | 35.43 | 30.53 | 1,288 | 0.31 | 0.38 | 70.4 |
| 5/3/2015 2:55:20 | 35.76 | 30.86 | 1,292 | 0.31 | 0.38 | 70.7 |
| 5/3/2015 2:55:21 | 36.09 | 31.19 | 1,292 | 0.31 | 0.38 | 70.7 |
| 5/3/2015 2:55:21 | 36.42 | 31.52 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:21 | 36.75 | 31.85 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:21 | 37.07 | 32.17 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:55:22 | 37.40 | 32.50 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/3/2015 2:55:22 | 37.73 | 32.83 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/3/2015 2:55:22 | 38.06 | 33.16 | 1,300 | 0.30 | 0.37 | 71.1 |
| 5/3/2015 2:55:23 | 38.39 | 33.49 | 1,300 | 0.30 | 0.37 | 71.1 |
| 5/3/2015 2:55:23 | 38.71 | 33.81 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:23 | 39.04 | 34.14 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:23 | 39.37 | 34.47 | 1,282 | 0.31 | 0.38 | 70.1 |
| 5/3/2015 2:55:24 | 39.70 | 34.80 | 1,282 | 0.31 | 0.38 | 70.1 |
| 5/3/2015 2:55:24 | 40.03 | 35.13 | 1,282 | 0.31 | 0.38 | 70.1 |
| 5/3/2015 2:55:24 | 40.35 | 35.45 | 1,282 | 0.31 | 0.38 | 70.1 |
| 5/3/2015 2:55:24 | 40.68 | 35.78 | 1,299 | 0.30 | 0.38 | 71.0 |
| 5/3/2015 2:55:25 | 41.01 | 36.11 | 1,299 | 0.30 | 0.38 | 71.0 |
| 5/3/2015 2:55:25 | 41.34 | 36.44 | 1,290 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:25 | 41.67 | 36.77 | 1,290 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:25 | 41.99 | 37.09 | 1,290 | 0.32 | 0.37 | 70.5 |
| 5/3/2015 2:55:26 | 42.32 | 37.42 | 1,300 | 0.30 | 0.38 | 71.1 |
| 5/3/2015 2:55:26 | 42.65 | 37.75 | 1,300 | 0.30 | 0.38 | 71.1 |
| 5/3/2015 2:55:26 | 42.98 | 38.08 | 1,302 | 0.31 | 0.39 | 71.2 |
| 5/3/2015 2:55:27 | 43.31 | 38.41 | 1,302 | 0.31 | 0.39 | 71.2 |
| 5/3/2015 2:55:27 | 43.64 | 38.74 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:55:28 | 43.96 | 39.06 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:55:28 | 44.29 | 39.39 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:28 | 44.62 | 39.72 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:28 | 44.95 | 40.05 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:29 | 45.28 | 40.38 | 1,289 | 0.31 | 0.38 | 70.5 |
| 5/3/2015 2:55:29 | 45.60 | 40.70 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:55:29 | 45.93 | 41.03 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:55:29 | 46.26 | 41.36 | 1,273 | 0.31 | 0.38 | 69.6 |
| 5/3/2015 2:55:30 | 46.59 | 41.69 | 1,273 | 0.31 | 0.38 | 69.6 |
| 5/3/2015 2:55:30 | 46.92 | 42.02 | 1,278 | 0.31 | 0.38 | 69.9 |
| 5/3/2015 2:55:30 | 47.24 | 42.34 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 2:55:31 | 47.57 | 42.67 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 2:55:31 | 47.90 | 43.00 | 1,283 | 0.31 | 0.39 | 70.2 |
| 5/3/2015 2:55:31 | 48.23 | 43.33 | 1,283 | 0.31 | 0.39 | 70.2 |
| 5/3/2015 2:55:31 | 48.56 | 43.66 | 1,278 | 0.31 | 0.39 | 69.9 |
| 5/3/2015 2:55:32 | 48.88 | 43.98 | 1,278 | 0.31 | 0.39 | 69.9 |
| 5/3/2015 2:55:32 | 49.21 | 44.31 | 1,285 | 0.28 | 0.49 | 70.3 |
| 5/3/2015 2:55:39 | 49.54 | 44.64 | 96 | 5.14 | 0.51 | 5.2 |
| 5/3/2015 2:55:43 | 49.87 | 44.97 | 47 | 4.47 | 0.48 | 2.6 |
| 5/3/2015 2:55:46 | 50.20 | 45.30 | 136 | 3.91 | 0.45 | 7.4 |
| 5/3/2015 2:55:48 | 50.53 | 45.63 | 202 | 3.67 | 0.48 | 11.1 |
| 5/3/2015 2:55:50 | 50.85 | 45.95 | 183 | 2.86 | 0.44 | 10.0 |
| 5/3/2015 2:55:50 | 51.18 | 46.28 | 243 | 3.22 | 0.43 | 13.3 |
| 5/3/2015 2:55:51 | 51.51 | 46.61 | 333 | 2.78 | 0.43 | 18.2 |
| 5/3/2015 2:55:51 | 51.84 | 46.94 | 430 | 3.02 | 0.44 | 23.5 |
| 5/3/2015 2:55:52 | 52.17 | 47.27 | 549 | 2.99 | 0.46 | 30.0 |
| 5/3/2015 2:56:08 | 52.49 | 47.59 | 0 | 6.28 | 0.50 | 0.0 |
| 5/3/2015 2:56:32 | 52.82 | 47.92 | 29 | 3.46 | 0.48 | 1.6 |
| 5/3/2015 2:56:46 | 53.15 | 48.25 | 26 | 2.66 | 0.49 | 1.4 |
| 5/3/2015 2:57:00 | 53.48 | 48.58 | 26 | 2.88 | 0.48 | 1.4 |
| 5/3/2015 2:57:05 | 53.61 | 48.71 | 23 | 2.90 | 0.49 | 1.3 |

## P104 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:53:53

**End Date:**
5/3/2015 2:58:41

**Operator Note:**
'4.9 5.2b Auto Complete'

**Northing:**
349,294.20

**Easting:**
224,941.60

**Tide (feet):**
4.90



## Hole: P105 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:54:51 | 35.11 | 30.21 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:54:51 | 35.43 | 30.53 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:54:52 | 35.76 | 30.86 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:54:53 | 36.09 | 31.19 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:54:53 | 36.42 | 31.52 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 2:54:53 | 36.75 | 31.85 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:54:54 | 37.07 | 32.17 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:54:54 | 37.40 | 32.50 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:54:54 | 37.73 | 32.83 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:54:55 | 38.06 | 33.16 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:54:55 | 38.39 | 33.49 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:54:55 | 38.71 | 33.81 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:54:56 | 39.04 | 34.14 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:54:56 | 39.37 | 34.47 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 2:54:56 | 39.70 | 34.80 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:54:57 | 40.03 | 35.13 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:54:57 | 40.35 | 35.45 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:54:57 | 40.68 | 35.78 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:54:57 | 41.01 | 36.11 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:54:58 | 41.34 | 36.44 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:54:58 | 41.67 | 36.77 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:54:58 | 41.99 | 37.09 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:54:59 | 42.32 | 37.42 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:54:59 | 42.65 | 37.75 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:54:59 | 42.98 | 38.08 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:55:00 | 43.31 | 38.41 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:55:00 | 43.64 | 38.74 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:55:00 | 43.96 | 39.06 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:55:01 | 44.29 | 39.39 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:55:01 | 44.62 | 39.72 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:55:01 | 44.95 | 40.05 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:55:02 | 45.28 | 40.38 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:55:02 | 45.60 | 40.70 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:55:02 | 45.93 | 41.03 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:55:03 | 46.26 | 41.36 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:55:03 | 46.59 | 41.69 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:55:03 | 46.92 | 42.02 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:55:04 | 47.24 | 42.34 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:55:05 | 47.57 | 42.67 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:55:05 | 47.90 | 43.00 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 2:55:05 | 48.23 | 43.33 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:55:06 | 48.56 | 43.66 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:55:06 | 48.88 | 43.98 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 2:55:06 | 49.21 | 44.31 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 2:55:06 | 49.54 | 44.64 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:55:29 | 49.87 | 44.97 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 2:55:29 | 50.20 | 45.30 | 162 | 1.14 | 0.29 | 8.8 |
| 5/3/2015 2:55:49 | 50.53 | 45.63 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 2:55:50 | 50.85 | 45.95 | 37 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 2:55:50 | 51.18 | 46.28 | 161 | 1.14 | 0.29 | 8.8 |
| 5/3/2015 2:55:51 | 51.51 | 46.61 | 279 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 2:56:11 | 51.84 | 46.94 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 2:56:12 | 52.17 | 47.27 | 214 | 1.14 | 0.29 | 11.7 |
| 5/3/2015 2:56:13 | 52.49 | 47.59 | 362 | 1.14 | 0.29 | 19.8 |
| 5/3/2015 2:56:14 | 52.82 | 47.92 | 440 | 1.14 | 0.29 | 24.1 |
| 5/3/2015 2:56:14 | 53.15 | 48.25 | 401 | 1.14 | 0.29 | 22.0 |
| 5/3/2015 2:56:19 | 53.48 | 48.58 | 43 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 2:56:19 | 53.81 | 48.91 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 2:56:20 | 54.13 | 49.23 | 239 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 2:56:20 | 54.46 | 49.56 | 380 | 1.14 | 0.29 | 20.8 |
| 5/3/2015 2:56:21 | 54.79 | 49.89 | 523 | 1.14 | 0.29 | 28.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:56:48 | 55.12 | 50.22 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 | 2:57:04 | 55.45 | 50.55 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 | 2:57:06 | 55.77 | 50.87 | 144 | 1.14 | 0.29 | 7.9 |
| 5/3/2015 | 2:57:07 | 56.10 | 51.20 | 207 | 1.14 | 0.29 | 11.3 |
| 5/3/2015 | 2:57:09 | 56.43 | 51.53 | 214 | 1.14 | 0.29 | 11.7 |
| 5/3/2015 | 2:57:11 | 56.76 | 51.86 | 177 | 1.14 | 0.29 | 9.7 |
| 5/3/2015 | 2:57:15 | 57.09 | 52.19 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 | 2:57:48 | 57.41 | 52.51 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 2:57:55 | 57.74 | 52.84 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 | 2:58:04 | 58.07 | 53.17 | 36 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 | 2:59:39 | 58.40 | 53.50 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 | 3:02:09 | 58.73 | 53.83 | 31 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 | 3:02:16 | 59.06 | 54.16 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 3:02:23 | 59.38 | 54.48 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 | 3:02:34 | 59.71 | 54.81 | 31 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 | 3:02:40 | 59.85 | 54.95 | 17 | 1.14 | 0.29 | 1.0 |

## P105 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:53:28

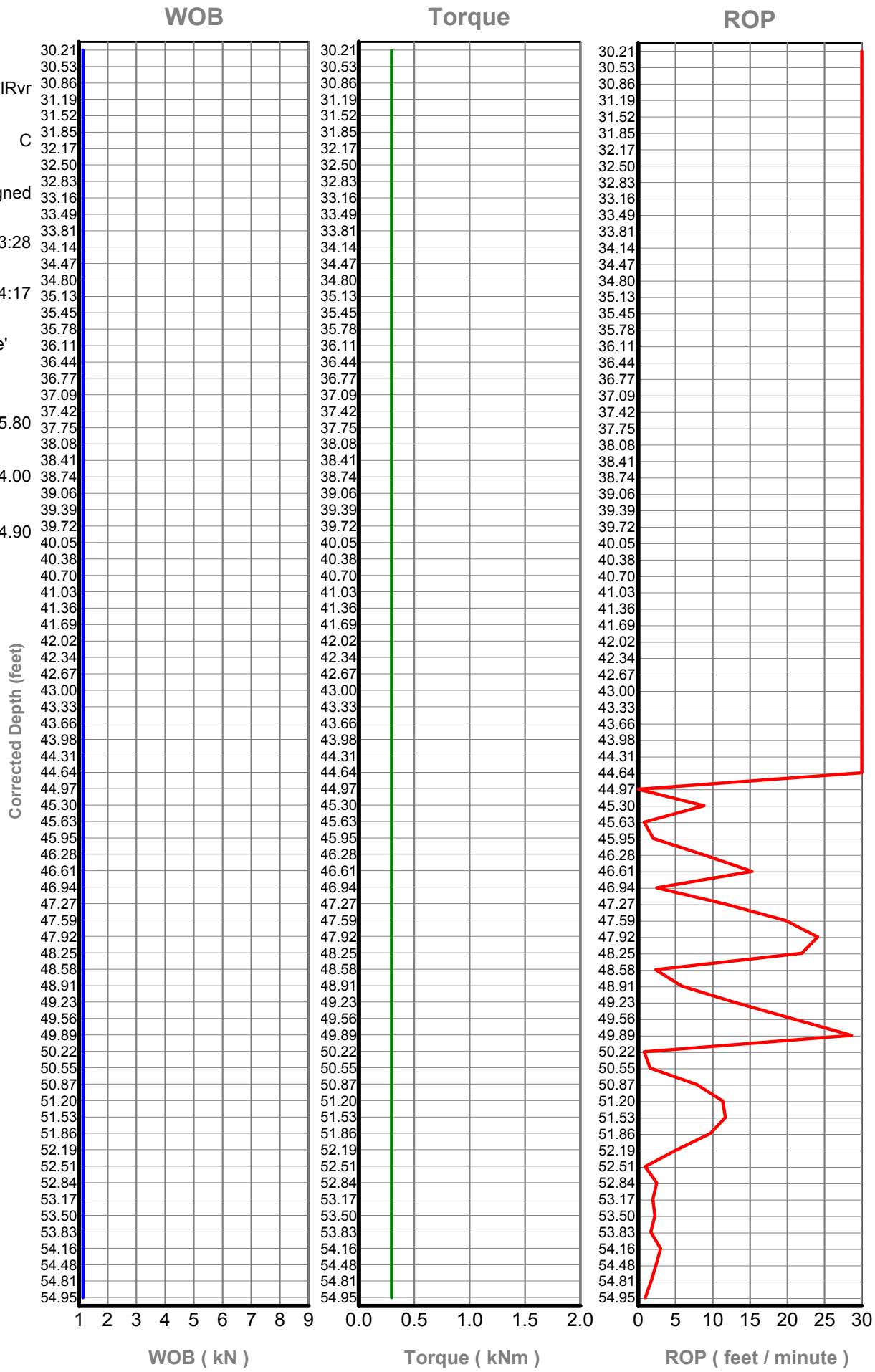
**End Date:**
5/3/2015 3:04:17

**Operator Note:**
'4.9 5.2 c Auto Complete'

**Northing:**
349,335.80

**Easting:**
225,004.00

**Tide (feet):**
4.90



## Hole: P106 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:14:29 | 36.09 | 30.09 | 1,279 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 22:14:30 | 36.42 | 30.42 | 1,279 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 22:14:30 | 36.75 | 30.75 | 1,263 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 22:14:30 | 37.07 | 31.07 | 1,263 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 22:14:30 | 37.40 | 31.40 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 22:14:31 | 37.73 | 31.73 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 22:14:31 | 38.06 | 32.06 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 22:14:31 | 38.39 | 32.39 | 1,274 | 0.54 | 0.17 | 69.7 |
| 5/2/2015 22:14:32 | 38.71 | 32.71 | 1,274 | 0.54 | 0.17 | 69.7 |
| 5/2/2015 22:14:32 | 39.04 | 33.04 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 22:14:32 | 39.37 | 33.37 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/2/2015 22:14:32 | 39.70 | 33.70 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 22:14:33 | 40.03 | 34.03 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 22:14:33 | 40.35 | 34.35 | 1,274 | 0.54 | 0.17 | 69.7 |
| 5/2/2015 22:14:33 | 40.68 | 34.68 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 22:14:34 | 41.01 | 35.01 | 1,105 | 0.54 | 0.17 | 60.4 |
| 5/2/2015 22:14:42 | 41.34 | 35.34 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 22:14:43 | 41.67 | 35.67 | 191 | 0.54 | 0.17 | 10.5 |
| 5/2/2015 22:14:43 | 41.99 | 35.99 | 191 | 0.54 | 0.17 | 10.5 |
| 5/2/2015 22:14:43 | 42.32 | 36.32 | 438 | 0.54 | 0.17 | 24.0 |
| 5/2/2015 22:14:44 | 42.65 | 36.65 | 438 | 0.54 | 0.17 | 24.0 |
| 5/2/2015 22:14:44 | 42.98 | 36.98 | 689 | 0.54 | 0.17 | 37.7 |
| 5/2/2015 22:14:44 | 43.31 | 37.31 | 689 | 0.54 | 0.17 | 37.7 |
| 5/2/2015 22:14:44 | 43.64 | 37.64 | 932 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 22:14:45 | 43.96 | 37.96 | 1,179 | 0.54 | 0.17 | 64.5 |
| 5/2/2015 22:14:45 | 44.29 | 38.29 | 1,179 | 0.54 | 0.17 | 64.5 |
| 5/2/2015 22:14:45 | 44.62 | 38.62 | 1,234 | 0.54 | 0.17 | 67.5 |
| 5/2/2015 22:14:46 | 44.95 | 38.95 | 1,234 | 0.54 | 0.17 | 67.5 |
| 5/2/2015 22:14:46 | 45.28 | 39.28 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 22:14:46 | 45.60 | 39.60 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 22:14:46 | 45.93 | 39.93 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/2/2015 22:14:47 | 46.26 | 40.26 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/2/2015 22:14:47 | 46.59 | 40.59 | 1,224 | 0.54 | 0.17 | 66.9 |
| 5/2/2015 22:14:47 | 46.92 | 40.92 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 22:14:48 | 47.24 | 41.24 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 22:14:48 | 47.57 | 41.57 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 22:14:48 | 47.90 | 41.90 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 22:14:48 | 48.23 | 42.23 | 1,224 | 0.54 | 0.17 | 67.0 |
| 5/2/2015 22:14:49 | 48.56 | 42.56 | 1,224 | 0.54 | 0.17 | 67.0 |
| 5/2/2015 22:14:49 | 48.88 | 42.88 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/2/2015 22:14:49 | 49.21 | 43.21 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/2/2015 22:14:50 | 49.54 | 43.54 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/2/2015 22:14:50 | 49.87 | 43.87 | 1,231 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 22:14:50 | 50.20 | 44.20 | 1,231 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 22:14:50 | 50.53 | 44.53 | 1,224 | 0.54 | 0.17 | 67.0 |
| 5/2/2015 22:14:51 | 50.85 | 44.85 | 1,224 | 0.54 | 0.17 | 67.0 |
| 5/2/2015 22:15:31 | 51.18 | 45.18 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:15:35 | 51.51 | 45.51 | 23 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 22:15:43 | 51.84 | 45.84 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:15:46 | 52.17 | 46.17 | 85 | 0.54 | 0.17 | 4.6 |
| 5/2/2015 22:15:47 | 52.49 | 46.49 | 235 | 0.54 | 0.17 | 12.8 |
| 5/2/2015 22:15:48 | 52.82 | 46.82 | 235 | 0.54 | 0.17 | 12.8 |
| 5/2/2015 22:15:55 | 53.15 | 47.15 | 62 | 0.54 | 0.17 | 3.4 |
| 5/2/2015 22:16:02 | 53.48 | 47.48 | 24 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 22:16:05 | 53.81 | 47.81 | 24 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 22:16:03 | 54.13 | 48.13 | 173 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 22:16:03 | 54.46 | 48.46 | 356 | 0.54 | 0.17 | 19.5 |
| 5/2/2015 22:16:04 | 54.79 | 48.79 | 499 | 0.54 | 0.17 | 27.3 |
| 5/2/2015 22:16:05 | 55.12 | 49.12 | 684 | 0.54 | 0.17 | 37.4 |
| 5/2/2015 22:16:05 | 55.45 | 49.45 | 617 | 0.54 | 0.17 | 33.7 |
| 5/2/2015 22:16:10 | 55.77 | 49.77 | 9 | 0.54 | 0.17 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:16:11 | 56.10 | 50.10 | 128 | 0.54 | 0.17 | 7.0 |
| 5/2/2015 | 22:16:12 | 56.43 | 50.43 | 281 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 | 22:16:13 | 56.76 | 50.76 | 401 | 0.54 | 0.17 | 21.9 |
| 5/2/2015 | 22:16:16 | 57.09 | 51.09 | 138 | 0.54 | 0.17 | 7.6 |
| 5/2/2015 | 22:16:18 | 57.41 | 51.41 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 | 22:16:24 | 57.74 | 51.74 | 42 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 | 22:16:30 | 58.07 | 52.07 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 | 22:16:35 | 58.40 | 52.40 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 22:16:41 | 58.73 | 52.73 | 67 | 0.54 | 0.17 | 3.7 |
| 5/2/2015 | 22:16:46 | 59.06 | 53.06 | 63 | 0.54 | 0.17 | 3.4 |
| 5/2/2015 | 22:16:55 | 59.38 | 53.38 | 52 | 0.54 | 0.17 | 2.9 |

## P106 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:12:30

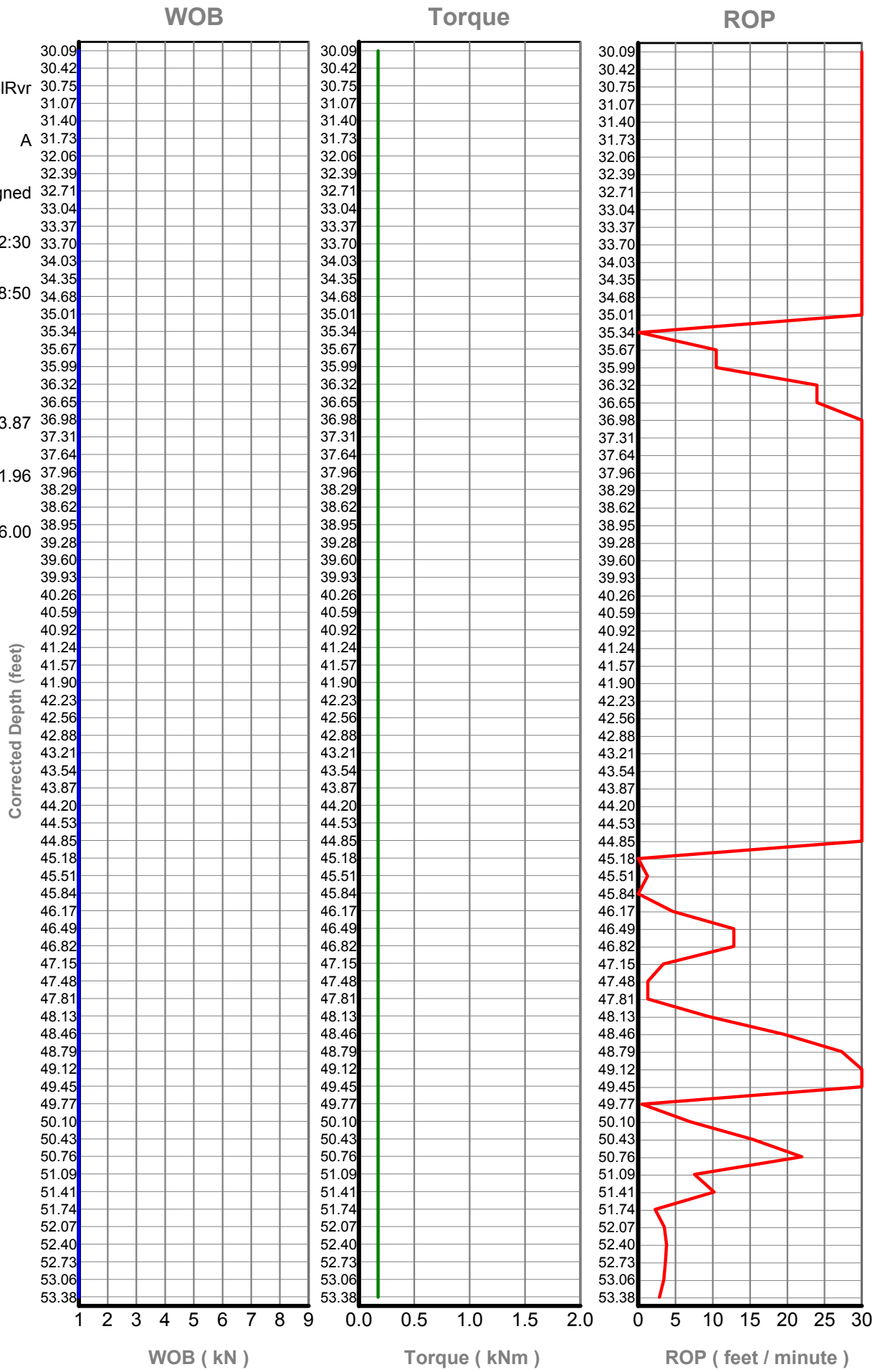
**End Date:**
5/2/2015 22:18:50

**Operator Note:**
'6 5.8 a Auto Complete'

**Northing:**
349,373.87

**Easting:**
225,071.96

**Tide (feet):**
6.00



## Hole: P107 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:14:51 | 36.09 | 30.09 | 1,166 | 0.35 | 0.40 | 63.8 |
| 5/2/2015 22:14:52 | 36.42 | 30.42 | 1,177 | 0.37 | 0.40 | 64.3 |
| 5/2/2015 22:14:52 | 36.75 | 30.75 | 1,177 | 0.37 | 0.40 | 64.3 |
| 5/2/2015 22:14:52 | 37.07 | 31.07 | 1,177 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:14:53 | 37.40 | 31.40 | 1,177 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:14:53 | 37.73 | 31.73 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:14:53 | 38.06 | 32.06 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:14:54 | 38.39 | 32.39 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:14:54 | 38.71 | 32.71 | 1,185 | 0.35 | 0.39 | 64.8 |
| 5/2/2015 22:14:54 | 39.04 | 33.04 | 1,185 | 0.35 | 0.39 | 64.8 |
| 5/2/2015 22:14:54 | 39.37 | 33.37 | 1,172 | 0.35 | 0.40 | 64.1 |
| 5/2/2015 22:14:55 | 39.70 | 33.70 | 1,172 | 0.35 | 0.40 | 64.1 |
| 5/2/2015 22:14:55 | 40.03 | 34.03 | 1,183 | 0.35 | 0.41 | 64.7 |
| 5/2/2015 22:14:55 | 40.35 | 34.35 | 1,173 | 0.35 | 0.40 | 64.2 |
| 5/2/2015 22:14:56 | 40.68 | 34.68 | 1,173 | 0.35 | 0.40 | 64.2 |
| 5/2/2015 22:14:56 | 41.01 | 35.01 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:14:56 | 41.34 | 35.34 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:14:56 | 41.67 | 35.67 | 1,176 | 0.35 | 0.41 | 64.3 |
| 5/2/2015 22:14:57 | 41.99 | 35.99 | 1,176 | 0.35 | 0.41 | 64.3 |
| 5/2/2015 22:14:57 | 42.32 | 36.32 | 1,176 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:14:57 | 42.65 | 36.65 | 1,169 | 0.35 | 0.41 | 63.9 |
| 5/2/2015 22:14:58 | 42.98 | 36.98 | 1,169 | 0.35 | 0.41 | 63.9 |
| 5/2/2015 22:14:58 | 43.31 | 37.31 | 1,189 | 0.35 | 0.40 | 65.0 |
| 5/2/2015 22:14:58 | 43.64 | 37.64 | 1,189 | 0.35 | 0.40 | 65.0 |
| 5/2/2015 22:14:58 | 43.96 | 37.96 | 1,193 | 0.35 | 0.40 | 65.2 |
| 5/2/2015 22:14:59 | 44.29 | 38.29 | 1,191 | 0.35 | 0.40 | 65.1 |
| 5/2/2015 22:15:00 | 44.62 | 38.62 | 1,191 | 0.35 | 0.40 | 65.1 |
| 5/2/2015 22:15:00 | 44.95 | 38.95 | 1,188 | 0.35 | 0.40 | 65.0 |
| 5/2/2015 22:15:00 | 45.28 | 39.28 | 1,188 | 0.35 | 0.40 | 65.0 |
| 5/2/2015 22:15:00 | 45.60 | 39.60 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:15:01 | 45.93 | 39.93 | 1,179 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 22:15:01 | 46.26 | 40.26 | 1,159 | 0.35 | 0.40 | 63.4 |
| 5/2/2015 22:15:01 | 46.59 | 40.59 | 1,159 | 0.35 | 0.41 | 63.4 |
| 5/2/2015 22:15:02 | 46.92 | 40.92 | 1,159 | 0.35 | 0.41 | 63.4 |
| 5/2/2015 22:15:02 | 47.24 | 41.24 | 1,165 | 0.35 | 0.40 | 63.7 |
| 5/2/2015 22:15:02 | 47.57 | 41.57 | 1,165 | 0.35 | 0.40 | 63.7 |
| 5/2/2015 22:15:02 | 47.90 | 41.90 | 1,152 | 0.35 | 0.41 | 63.0 |
| 5/2/2015 22:15:03 | 48.23 | 42.23 | 1,173 | 0.35 | 0.41 | 64.1 |
| 5/2/2015 22:15:03 | 48.56 | 42.56 | 1,173 | 0.35 | 0.41 | 64.1 |
| 5/2/2015 22:15:03 | 48.88 | 42.88 | 1,161 | 0.35 | 0.40 | 63.5 |
| 5/2/2015 22:15:04 | 49.21 | 43.21 | 1,161 | 0.35 | 0.40 | 63.5 |
| 5/2/2015 22:15:04 | 49.54 | 43.54 | 1,175 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:15:04 | 49.87 | 43.87 | 1,175 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:15:04 | 50.20 | 44.20 | 1,175 | 0.35 | 0.40 | 64.3 |
| 5/2/2015 22:15:05 | 50.53 | 44.53 | 1,163 | 0.32 | 0.46 | 63.6 |
| 5/2/2015 22:15:09 | 50.85 | 44.85 | 23 | 2.95 | 0.41 | 1.3 |
| 5/2/2015 22:15:12 | 51.18 | 45.18 | 148 | 4.24 | 0.44 | 8.1 |
| 5/2/2015 22:15:14 | 51.51 | 45.51 | 168 | 5.46 | 0.50 | 9.2 |
| 5/2/2015 22:15:18 | 51.84 | 45.84 | 60 | 3.45 | 0.49 | 3.3 |
| 5/2/2015 22:15:28 | 52.17 | 46.17 | 52 | 4.26 | 0.48 | 2.8 |
| 5/2/2015 22:15:29 | 52.49 | 46.49 | 59 | 3.96 | 0.46 | 3.2 |
| 5/2/2015 22:15:30 | 52.82 | 46.82 | 131 | 3.59 | 0.46 | 7.2 |
| 5/2/2015 22:15:31 | 53.15 | 47.15 | 339 | 3.05 | 0.44 | 18.5 |
| 5/2/2015 22:15:32 | 53.48 | 47.48 | 473 | 2.75 | 0.44 | 25.9 |
| 5/2/2015 22:15:32 | 53.81 | 47.81 | 584 | 2.93 | 0.44 | 31.9 |
| 5/2/2015 22:15:33 | 54.13 | 48.13 | 615 | 3.35 | 0.50 | 33.6 |
| 5/2/2015 22:15:34 | 54.46 | 48.46 | 530 | 4.38 | 0.46 | 29.0 |
| 5/2/2015 22:15:34 | 54.79 | 48.79 | 522 | 5.50 | 0.45 | 28.6 |
| 5/2/2015 22:15:35 | 55.12 | 49.12 | 485 | 2.93 | 0.43 | 26.5 |
| 5/2/2015 22:15:37 | 55.45 | 49.45 | 239 | 5.07 | 0.49 | 13.1 |
| 5/2/2015 22:15:38 | 55.77 | 49.77 | 182 | 5.47 | 0.47 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:15:40 | 56.10 | 50.10 | 217 | 4.49 | 0.48 | 11.9 |
| 5/2/2015 | 22:15:42 | 56.43 | 50.43 | 212 | 3.49 | 0.48 | 11.6 |
| 5/2/2015 | 22:15:45 | 56.76 | 50.76 | 111 | 3.58 | 0.49 | 6.1 |
| 5/2/2015 | 22:15:49 | 57.09 | 51.09 | 100 | 4.87 | 0.49 | 5.4 |
| 5/2/2015 | 22:15:53 | 57.41 | 51.41 | 86 | 3.95 | 0.49 | 4.7 |
| 5/2/2015 | 22:15:58 | 57.74 | 51.74 | 78 | 4.32 | 0.49 | 4.2 |
| 5/2/2015 | 22:16:02 | 58.07 | 52.07 | 86 | 4.21 | 0.49 | 4.7 |
| 5/2/2015 | 22:16:06 | 58.40 | 52.40 | 101 | 3.71 | 0.49 | 5.5 |
| 5/2/2015 | 22:16:12 | 58.73 | 52.73 | 53 | 3.94 | 0.49 | 2.9 |
| 5/2/2015 | 22:16:25 | 59.06 | 53.06 | 9 | 4.98 | 0.49 | 0.5 |
| 5/2/2015 | 22:16:35 | 59.38 | 53.38 | 38 | 3.64 | 0.49 | 2.1 |
| 5/2/2015 | 22:16:39 | 59.52 | 53.52 | 27 | 4.33 | 0.50 | 1.5 |

## P107 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:13:26

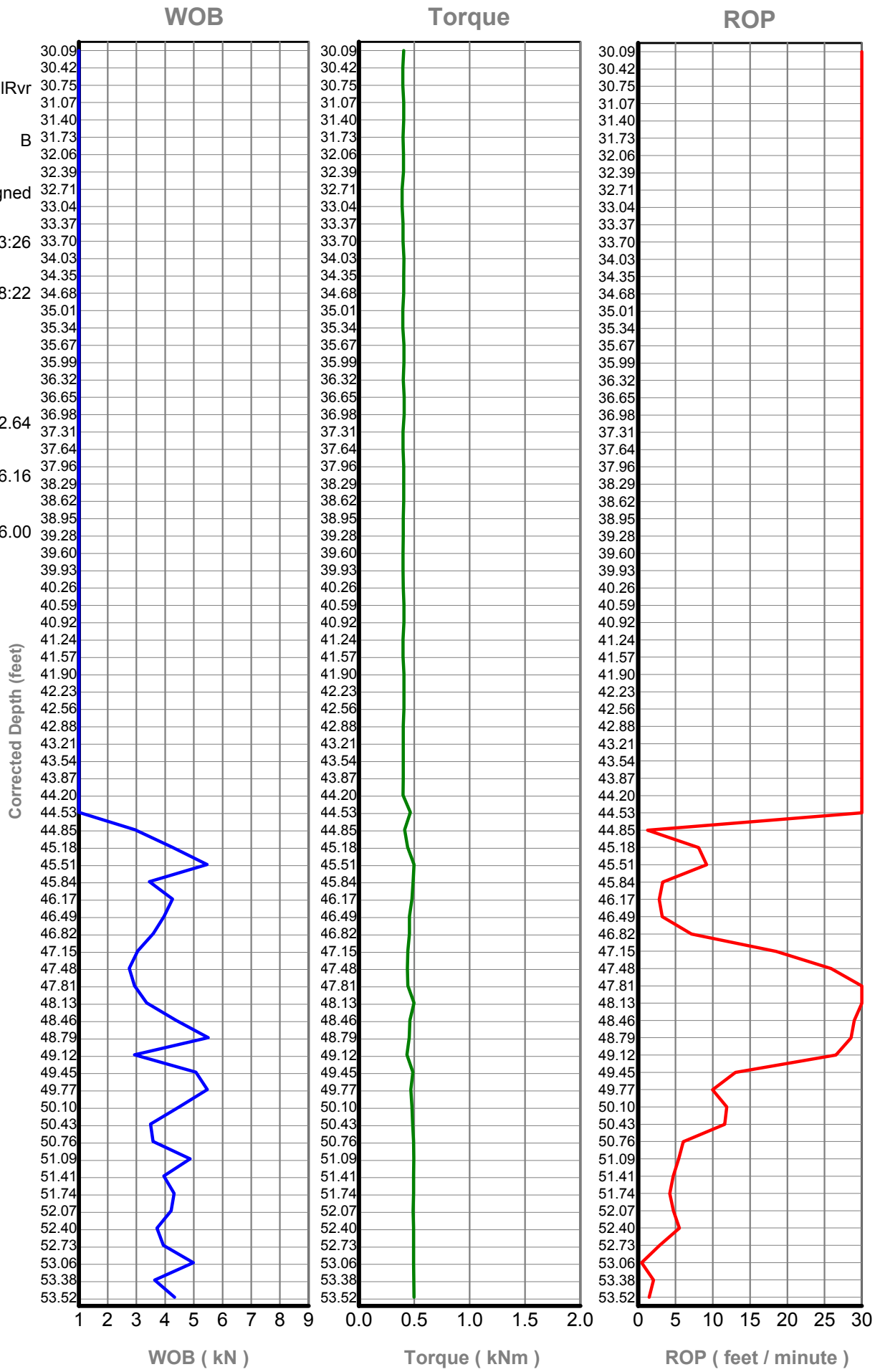
**End Date:**
5/2/2015 22:18:22

**Operator Note:**
'6 5.8b Auto Complete'

**Northing:**
349,412.64

**Easting:**
225,136.16

**Tide (feet):**
6.00



## Hole: P108 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:13:46 | 36.09 | 30.09 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:47 | 36.42 | 30.42 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:13:48 | 36.75 | 30.75 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:13:47 | 37.07 | 31.07 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:48 | 37.40 | 31.40 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:13:49 | 37.73 | 31.73 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:13:49 | 38.06 | 32.06 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:13:49 | 38.39 | 32.39 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:50 | 38.71 | 32.71 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:50 | 39.04 | 33.04 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:50 | 39.37 | 33.37 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:51 | 39.70 | 33.70 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:51 | 40.03 | 34.03 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:13:51 | 40.35 | 34.35 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:13:52 | 40.68 | 34.68 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:13:52 | 41.01 | 35.01 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:52 | 41.34 | 35.34 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:53 | 41.67 | 35.67 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:53 | 41.99 | 35.99 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:13:53 | 42.32 | 36.32 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:54 | 42.65 | 36.65 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:54 | 42.98 | 36.98 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:54 | 43.31 | 37.31 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 22:13:55 | 43.64 | 37.64 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 22:13:55 | 43.96 | 37.96 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 22:13:55 | 44.29 | 38.29 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:56 | 44.62 | 38.62 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:56 | 44.95 | 38.95 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:13:56 | 45.28 | 39.28 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 22:13:57 | 45.60 | 39.60 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 22:13:57 | 45.93 | 39.93 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:13:57 | 46.26 | 40.26 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:13:58 | 46.59 | 40.59 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:13:58 | 46.92 | 40.92 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:13:58 | 47.24 | 41.24 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:13:59 | 47.57 | 41.57 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:13:59 | 47.90 | 41.90 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:14:00 | 48.23 | 42.23 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:14:00 | 48.56 | 42.56 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:14:00 | 48.88 | 42.88 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 22:14:01 | 49.21 | 43.21 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:14:01 | 49.54 | 43.54 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:14:01 | 49.87 | 43.87 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 22:14:02 | 50.20 | 44.20 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 22:14:02 | 50.53 | 44.53 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 22:14:02 | 50.85 | 44.85 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 22:14:22 | 51.18 | 45.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 22:14:25 | 51.51 | 45.51 | 127 | 1.14 | 0.29 | 7.0 |
| 5/2/2015 22:14:26 | 51.84 | 45.84 | 213 | 1.14 | 0.29 | 11.6 |
| 5/2/2015 22:14:27 | 52.17 | 46.17 | 357 | 1.14 | 0.29 | 19.5 |
| 5/2/2015 22:14:28 | 52.49 | 46.49 | 413 | 1.14 | 0.29 | 22.6 |
| 5/2/2015 22:14:35 | 52.82 | 46.82 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 22:14:36 | 53.15 | 47.15 | 147 | 1.14 | 0.29 | 8.0 |
| 5/2/2015 22:14:36 | 53.48 | 47.48 | 276 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 22:14:37 | 53.81 | 47.81 | 370 | 1.14 | 0.29 | 20.2 |
| 5/2/2015 22:14:44 | 54.13 | 48.13 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 22:14:45 | 54.46 | 48.46 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 22:14:47 | 54.79 | 48.79 | 147 | 1.14 | 0.29 | 8.1 |
| 5/2/2015 22:14:52 | 55.12 | 49.12 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 22:14:53 | 55.45 | 49.45 | 220 | 1.14 | 0.29 | 12.0 |
| 5/2/2015 22:14:56 | 55.77 | 49.77 | 47 | 1.14 | 0.29 | 2.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:14:58 | 56.10 | 50.10 | 161 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 | 22:14:59 | 56.43 | 50.43 | 305 | 1.14 | 0.29 | 16.7 |
| 5/2/2015 | 22:15:00 | 56.76 | 50.76 | 366 | 1.14 | 0.29 | 20.0 |
| 5/2/2015 | 22:15:03 | 57.09 | 51.09 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 | 22:15:04 | 57.41 | 51.41 | 180 | 1.14 | 0.29 | 9.9 |
| 5/2/2015 | 22:15:05 | 57.74 | 51.74 | 308 | 1.14 | 0.29 | 16.8 |
| 5/2/2015 | 22:15:07 | 58.07 | 52.07 | 274 | 1.14 | 0.29 | 15.0 |
| 5/2/2015 | 22:15:09 | 58.40 | 52.40 | 160 | 1.14 | 0.29 | 8.7 |
| 5/2/2015 | 22:15:33 | 58.73 | 52.73 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 22:15:53 | 59.06 | 53.06 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 22:15:58 | 59.38 | 53.38 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 | 22:16:06 | 59.71 | 53.71 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 | 22:16:16 | 60.04 | 54.04 | 88 | 1.14 | 0.29 | 4.8 |
| 5/2/2015 | 22:16:25 | 60.37 | 54.37 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 | 22:16:29 | 60.70 | 54.70 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 | 22:16:30 | 60.81 | 54.81 | 95 | 1.14 | 0.29 | 5.2 |

## P108 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:12:29

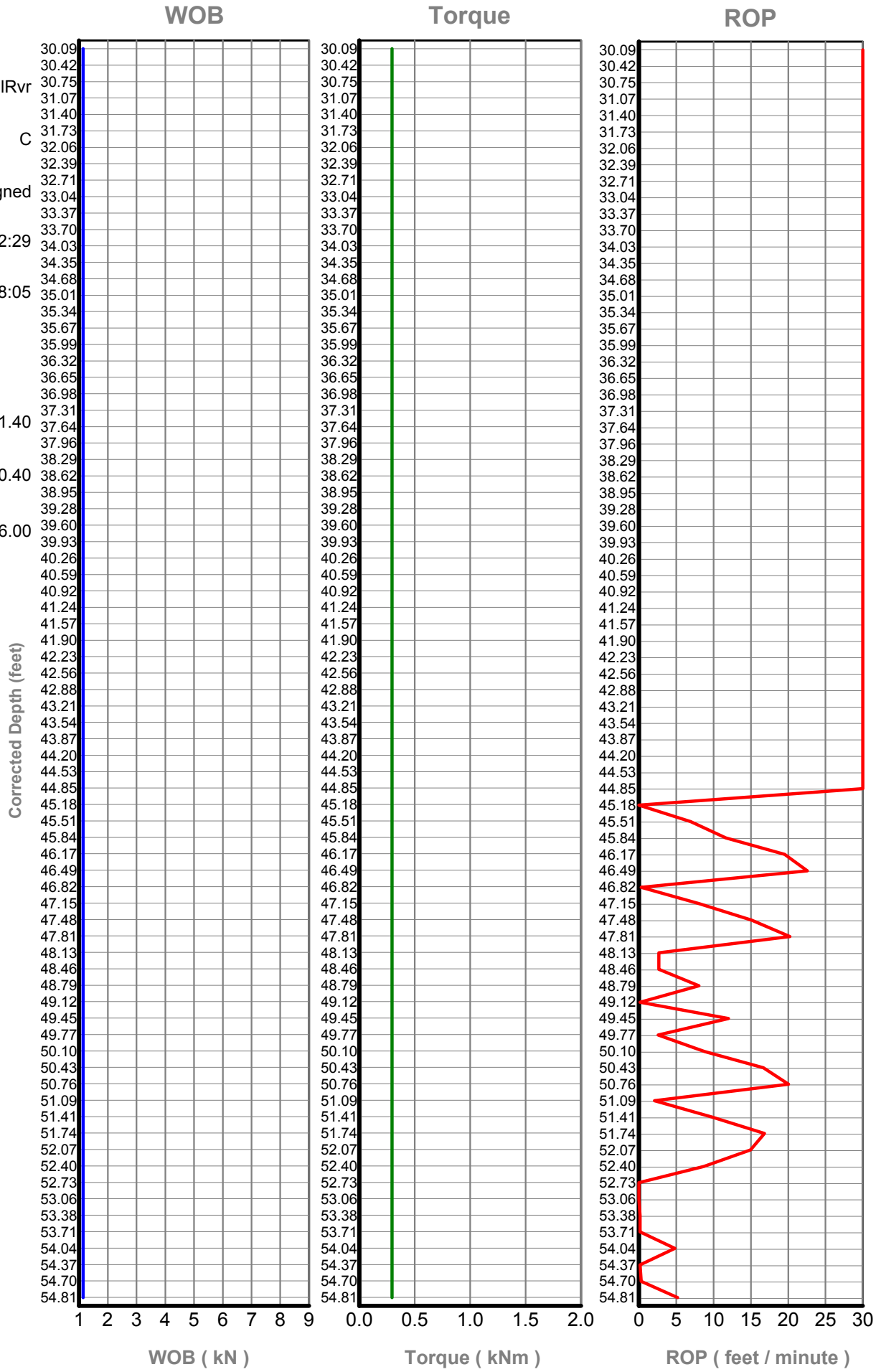
**End Date:**
5/2/2015 22:18:05

**Operator Note:**
'6 5.8 c Auto Complete'

**Northing:**
349,451.40

**Easting:**
225,200.40

**Tide (feet):**
6.00



## Hole: P109 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:12:59 | 34.45 | 30.05 | 1,161 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 21:12:59 | 34.78 | 30.38 | 1,151 | 0.54 | 0.17 | 62.9 |
| 5/2/2015 21:13:00 | 35.11 | 30.71 | 1,151 | 0.54 | 0.17 | 62.9 |
| 5/2/2015 21:13:00 | 35.43 | 31.03 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 21:13:00 | 35.76 | 31.36 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 21:13:00 | 36.09 | 31.69 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:01 | 36.42 | 32.02 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:01 | 36.75 | 32.35 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:01 | 37.07 | 32.67 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:02 | 37.40 | 33.00 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:02 | 37.73 | 33.33 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:02 | 38.06 | 33.66 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:03 | 38.39 | 33.99 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/2/2015 21:13:03 | 38.71 | 34.31 | 1,135 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 21:13:03 | 39.04 | 34.64 | 1,135 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 21:13:03 | 39.37 | 34.97 | 1,135 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 21:13:04 | 39.70 | 35.30 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 21:13:04 | 40.03 | 35.63 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 21:13:04 | 40.35 | 35.95 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 21:13:05 | 40.68 | 36.28 | 1,082 | 0.54 | 0.17 | 59.2 |
| 5/2/2015 21:13:06 | 41.01 | 36.61 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 21:13:06 | 41.34 | 36.94 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 21:13:06 | 41.67 | 37.27 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 21:13:07 | 41.99 | 37.59 | 908 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 21:13:09 | 42.32 | 37.92 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 21:13:13 | 42.65 | 38.25 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 21:13:13 | 42.98 | 38.58 | 157 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 21:13:14 | 43.31 | 38.91 | 157 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 21:13:14 | 43.64 | 39.24 | 416 | 0.54 | 0.17 | 22.7 |
| 5/2/2015 21:13:14 | 43.96 | 39.56 | 416 | 0.54 | 0.17 | 22.7 |
| 5/2/2015 21:13:14 | 44.29 | 39.89 | 667 | 0.54 | 0.17 | 36.5 |
| 5/2/2015 21:13:15 | 44.62 | 40.22 | 667 | 0.54 | 0.17 | 36.5 |
| 5/2/2015 21:13:15 | 44.95 | 40.55 | 926 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 21:13:15 | 45.28 | 40.88 | 926 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 21:13:15 | 45.60 | 41.20 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/2/2015 21:13:16 | 45.93 | 41.53 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/2/2015 21:13:16 | 46.26 | 41.86 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 21:13:16 | 46.59 | 42.19 | 1,272 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 21:13:17 | 46.92 | 42.52 | 1,272 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 21:13:17 | 47.24 | 42.84 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 21:13:18 | 47.57 | 43.17 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 21:13:18 | 47.90 | 43.50 | 1,272 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 21:13:18 | 48.23 | 43.83 | 1,272 | 0.54 | 0.17 | 69.6 |
| 5/2/2015 21:13:18 | 48.56 | 44.16 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 21:13:19 | 48.88 | 44.48 | 1,276 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 21:13:19 | 49.21 | 44.81 | 1,277 | 0.54 | 0.17 | 69.8 |
| 5/2/2015 21:13:29 | 49.54 | 45.14 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 21:13:31 | 49.87 | 45.47 | 208 | 0.54 | 0.17 | 11.4 |
| 5/2/2015 21:13:36 | 50.20 | 45.80 | 82 | 0.54 | 0.17 | 4.5 |
| 5/2/2015 21:13:41 | 50.53 | 46.13 | 47 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 21:13:41 | 50.85 | 46.45 | 72 | 0.54 | 0.17 | 3.9 |
| 5/2/2015 21:13:44 | 51.18 | 46.78 | 211 | 0.54 | 0.17 | 11.5 |
| 5/2/2015 21:13:45 | 51.51 | 47.11 | 266 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 21:13:49 | 51.84 | 47.44 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 21:13:55 | 52.17 | 47.77 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 21:13:59 | 52.49 | 48.09 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 21:14:01 | 52.82 | 48.42 | 163 | 0.54 | 0.17 | 8.9 |
| 5/2/2015 21:14:02 | 53.15 | 48.75 | 216 | 0.54 | 0.17 | 11.8 |
| 5/2/2015 21:14:49 | 53.48 | 49.08 | 47 | 0.54 | 0.17 | 2.6 |
| 5/2/2015 21:14:57 | 53.81 | 49.41 | 54 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 21:15:05 | 54.13 | 49.73 | 42 | 0.54 | 0.17 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 21:15:15 | 54.46 | 50.06 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 21:15:16 | 54.51 | 50.11 | 32 | 0.54 | 0.17 | 1.7 |

## P109 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:04:17

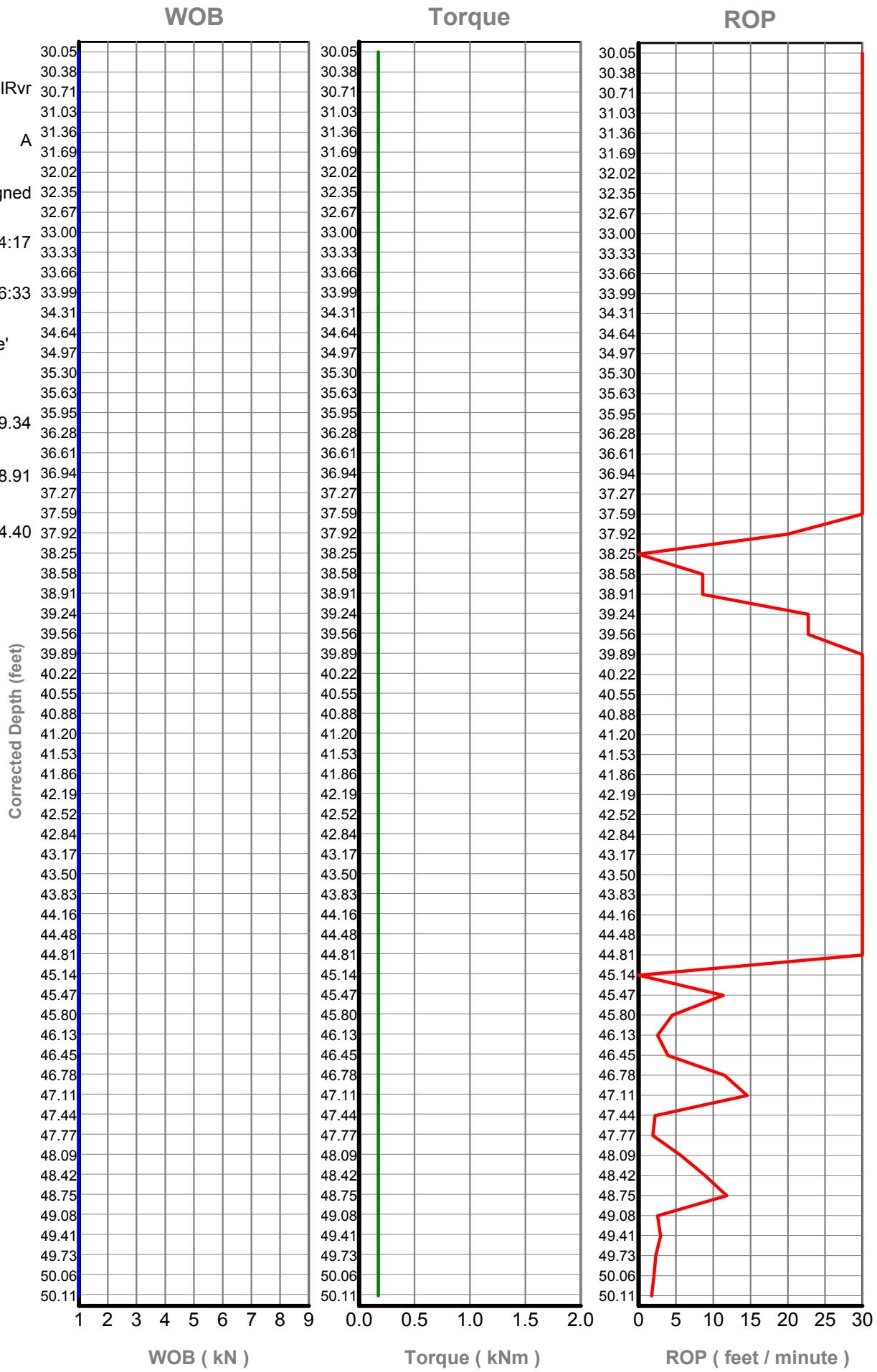
**End Date:**
5/2/2015 21:16:33

**Operator Note:**
'4.4 4.2 a Auto Complete'

**Northing:**
349,489.34

**Easting:**
225,268.91

**Tide (feet):**
4.40



## Hole: P11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:57:56 | 34.12 | 30.22 | 1,326 | 0.28 | 0.38 | 72.5 |
| 5/2/2015 14:57:56 | 34.45 | 30.55 | 1,326 | 0.28 | 0.38 | 72.5 |
| 5/2/2015 14:57:57 | 34.78 | 30.88 | 1,326 | 0.26 | 0.35 | 72.5 |
| 5/2/2015 14:57:57 | 35.11 | 31.21 | 1,326 | 0.26 | 0.35 | 72.5 |
| 5/2/2015 14:57:57 | 35.43 | 31.53 | 1,341 | 0.24 | 0.47 | 73.4 |
| 5/2/2015 14:58:05 | 35.76 | 31.86 | 14 | 3.28 | 0.46 | 0.8 |
| 5/2/2015 14:58:10 | 36.09 | 32.19 | 60 | 3.39 | 0.43 | 3.3 |
| 5/2/2015 14:58:12 | 36.42 | 32.52 | 211 | 3.41 | 0.47 | 11.6 |
| 5/2/2015 14:58:13 | 36.75 | 32.85 | 276 | 3.67 | 0.46 | 15.1 |
| 5/2/2015 14:58:20 | 37.07 | 33.17 | 54 | 4.25 | 0.46 | 3.0 |
| 5/2/2015 14:58:28 | 37.40 | 33.50 | 23 | 3.72 | 0.48 | 1.3 |
| 5/2/2015 14:58:29 | 37.73 | 33.83 | 107 | 4.11 | 0.48 | 5.8 |
| 5/2/2015 14:58:35 | 38.06 | 34.16 | 43 | 3.08 | 0.49 | 2.4 |
| 5/2/2015 14:58:44 | 38.39 | 34.49 | 46 | 2.32 | 0.48 | 2.5 |
| 5/2/2015 14:58:52 | 38.71 | 34.81 | 51 | 2.48 | 0.49 | 2.8 |
| 5/2/2015 14:59:00 | 39.02 | 35.12 | 40 | 2.46 | 0.49 | 2.2 |

## P11 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
5/2/2015 14:55:54

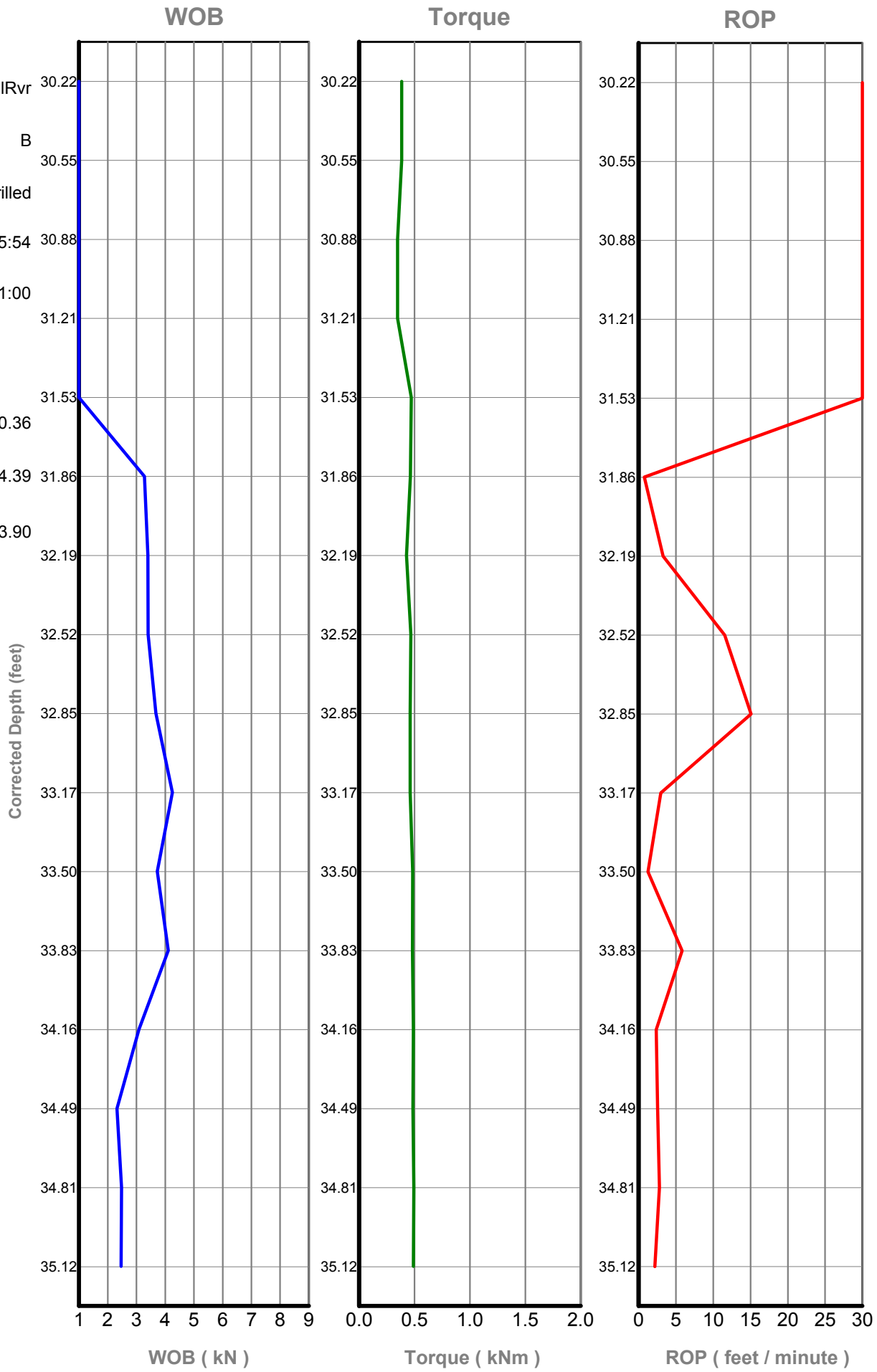
**End Date:**
5/2/2015 15:01:00

**Operator Note:**
'3.9 4.1 b Rockkk'

**Northing:**
349,910.36

**Easting:**
225,364.39

**Tide (feet):**
3.90



## Hole: P110 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:14:32 | 34.45 | 30.05 | 1,231 | 0.33 | 0.40 | 67.3 |
| 5/2/2015 21:14:32 | 34.78 | 30.38 | 1,219 | 0.33 | 0.40 | 66.6 |
| 5/2/2015 21:14:33 | 35.11 | 30.71 | 1,219 | 0.33 | 0.40 | 66.6 |
| 5/2/2015 21:14:33 | 35.43 | 31.03 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:33 | 35.76 | 31.36 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:33 | 36.09 | 31.69 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:34 | 36.42 | 32.02 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:34 | 36.75 | 32.35 | 1,226 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 21:14:34 | 37.07 | 32.67 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:35 | 37.40 | 33.00 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:35 | 37.73 | 33.33 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:35 | 38.06 | 33.66 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:35 | 38.39 | 33.99 | 1,226 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 21:14:36 | 38.71 | 34.31 | 1,226 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 21:14:36 | 39.04 | 34.64 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 21:14:36 | 39.37 | 34.97 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 21:14:36 | 39.70 | 35.30 | 1,216 | 0.33 | 0.40 | 66.5 |
| 5/2/2015 21:14:37 | 40.03 | 35.63 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:38 | 40.35 | 35.95 | 1,229 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 21:14:38 | 40.68 | 36.28 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 21:14:38 | 41.01 | 36.61 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 21:14:38 | 41.34 | 36.94 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:39 | 41.67 | 37.27 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:39 | 41.99 | 37.59 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:39 | 42.32 | 37.92 | 1,236 | 0.33 | 0.40 | 67.6 |
| 5/2/2015 21:14:40 | 42.65 | 38.25 | 1,236 | 0.33 | 0.40 | 67.6 |
| 5/2/2015 21:14:40 | 42.98 | 38.58 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:40 | 43.31 | 38.91 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:40 | 43.64 | 39.24 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:41 | 43.96 | 39.56 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:14:41 | 44.29 | 39.89 | 1,216 | 0.33 | 0.40 | 66.5 |
| 5/2/2015 21:14:41 | 44.62 | 40.22 | 1,216 | 0.33 | 0.40 | 66.5 |
| 5/2/2015 21:14:41 | 44.95 | 40.55 | 1,229 | 0.32 | 0.40 | 67.2 |
| 5/2/2015 21:14:42 | 45.28 | 40.88 | 1,216 | 0.31 | 0.40 | 66.5 |
| 5/2/2015 21:14:42 | 45.60 | 41.20 | 1,216 | 0.31 | 0.40 | 66.5 |
| 5/2/2015 21:14:42 | 45.93 | 41.53 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:43 | 46.26 | 41.86 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:14:43 | 46.59 | 42.19 | 1,204 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 21:14:43 | 46.92 | 42.52 | 1,204 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 21:14:43 | 47.24 | 42.84 | 1,204 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 21:14:44 | 47.57 | 43.17 | 1,204 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 21:14:44 | 47.90 | 43.50 | 1,218 | 0.33 | 0.39 | 66.6 |
| 5/2/2015 21:14:44 | 48.23 | 43.83 | 1,205 | 0.33 | 0.40 | 65.9 |
| 5/2/2015 21:14:45 | 48.56 | 44.16 | 1,205 | 0.33 | 0.40 | 65.9 |
| 5/2/2015 21:14:45 | 48.88 | 44.48 | 1,212 | 0.31 | 0.41 | 66.3 |
| 5/2/2015 21:14:45 | 49.21 | 44.81 | 1,212 | 0.31 | 0.41 | 66.3 |
| 5/2/2015 21:14:54 | 49.54 | 45.14 | 26 | 5.25 | 0.48 | 1.4 |
| 5/2/2015 21:14:56 | 49.87 | 45.47 | 66 | 4.41 | 0.46 | 3.6 |
| 5/2/2015 21:14:57 | 50.20 | 45.80 | 197 | 4.07 | 0.47 | 10.8 |
| 5/2/2015 21:14:59 | 50.53 | 46.13 | 345 | 2.78 | 0.45 | 18.9 |
| 5/2/2015 21:14:59 | 50.85 | 46.45 | 405 | 3.75 | 0.47 | 22.1 |
| 5/2/2015 21:15:01 | 51.18 | 46.78 | 374 | 4.21 | 0.46 | 20.5 |
| 5/2/2015 21:15:01 | 51.51 | 47.11 | 398 | 3.23 | 0.45 | 21.8 |
| 5/2/2015 21:15:02 | 51.84 | 47.44 | 410 | 4.30 | 0.46 | 22.4 |
| 5/2/2015 21:15:03 | 52.17 | 47.77 | 437 | 4.40 | 0.49 | 23.9 |
| 5/2/2015 21:15:05 | 52.49 | 48.09 | 246 | 7.19 | 0.48 | 13.5 |
| 5/2/2015 21:15:10 | 52.82 | 48.42 | 24 | 4.33 | 0.46 | 1.3 |
| 5/2/2015 21:15:10 | 53.15 | 48.75 | 118 | 3.35 | 0.44 | 6.5 |
| 5/2/2015 21:15:11 | 53.48 | 49.08 | 251 | 2.42 | 0.43 | 13.7 |
| 5/2/2015 21:15:11 | 53.81 | 49.41 | 402 | 3.41 | 0.48 | 22.0 |
| 5/2/2015 21:15:17 | 54.13 | 49.73 | 43 | 3.14 | 0.49 | 2.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:15:24 | 54.46 | 50.06 | 67 | 3.15 | 0.50 | 3.6 |
| 5/2/2015 21:15:30 | 54.79 | 50.39 | 64 | 3.28 | 0.48 | 3.5 |
| 5/2/2015 21:15:34 | 55.05 | 50.65 | 73 | 3.65 | 0.49 | 4.0 |

## P110 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:13:06

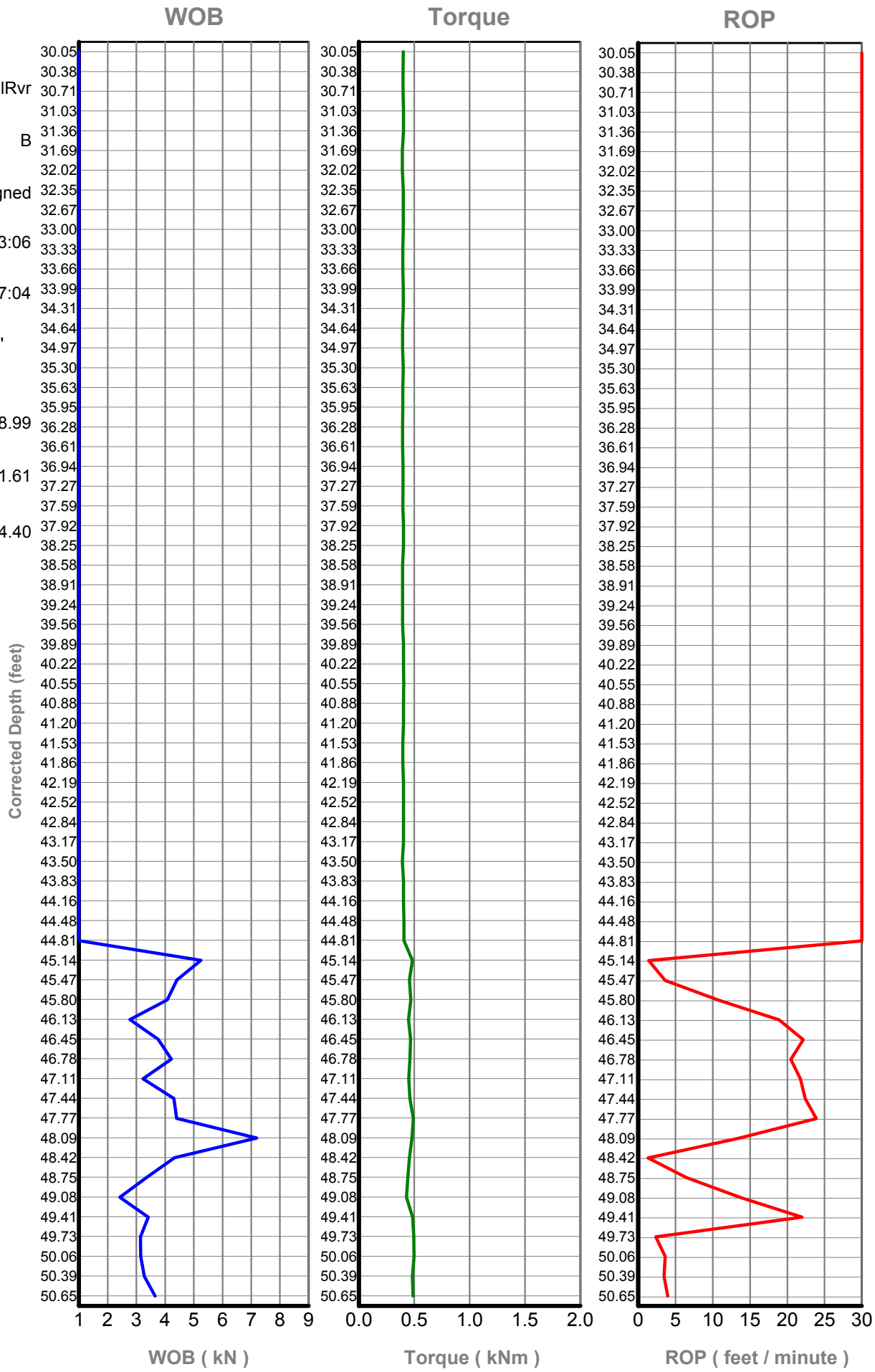
**End Date:**
5/2/2015 21:17:04

**Operator Note:**
'4.4 4.2b Auto Complete'

**Northing:**
349,528.99

**Easting:**
225,331.61

**Tide (feet):**
4.40



## Hole: P111 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:12:21 | 34.45 | 30.05 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:21 | 34.78 | 30.38 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:12:21 | 35.11 | 30.71 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 21:12:22 | 35.43 | 31.03 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 21:12:22 | 35.76 | 31.36 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 21:12:23 | 36.09 | 31.69 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:23 | 36.42 | 32.02 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:23 | 36.75 | 32.35 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 21:12:24 | 37.07 | 32.67 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:12:24 | 37.40 | 33.00 | 1,049 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:12:24 | 37.73 | 33.33 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:25 | 38.06 | 33.66 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:25 | 38.39 | 33.99 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:12:25 | 38.71 | 34.31 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:12:26 | 39.04 | 34.64 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:12:26 | 39.37 | 34.97 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 21:12:26 | 39.70 | 35.30 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:12:27 | 40.03 | 35.63 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:12:27 | 40.35 | 35.95 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:12:27 | 40.68 | 36.28 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:12:28 | 41.01 | 36.61 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:12:28 | 41.34 | 36.94 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:12:28 | 41.67 | 37.27 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:12:29 | 41.99 | 37.59 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:12:29 | 42.32 | 37.92 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:29 | 42.65 | 38.25 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:30 | 42.98 | 38.58 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:30 | 43.31 | 38.91 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 21:12:30 | 43.64 | 39.24 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:12:31 | 43.96 | 39.56 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:12:31 | 44.29 | 39.89 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:31 | 44.62 | 40.22 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:32 | 44.95 | 40.55 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:32 | 45.28 | 40.88 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 21:12:32 | 45.60 | 41.20 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 21:12:33 | 45.93 | 41.53 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 21:12:33 | 46.26 | 41.86 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:12:34 | 46.59 | 42.19 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:12:34 | 46.92 | 42.52 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:12:34 | 47.24 | 42.84 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:35 | 47.57 | 43.17 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:12:35 | 47.90 | 43.50 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:12:35 | 48.23 | 43.83 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 21:12:36 | 48.56 | 44.16 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 21:12:54 | 48.88 | 44.48 | 37 | 1.14 | 0.29 | 2.0 |
| 5/2/2015 21:12:58 | 49.21 | 44.81 | 48 | 1.14 | 0.29 | 2.6 |
| 5/2/2015 21:12:59 | 49.54 | 45.14 | 83 | 1.14 | 0.29 | 4.6 |
| 5/2/2015 21:12:59 | 49.87 | 45.47 | 210 | 1.14 | 0.29 | 11.5 |
| 5/2/2015 21:13:12 | 50.20 | 45.80 | 15 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 21:13:13 | 50.53 | 46.13 | 88 | 1.14 | 0.29 | 4.8 |
| 5/2/2015 21:13:14 | 50.85 | 46.45 | 160 | 1.14 | 0.29 | 8.7 |
| 5/2/2015 21:13:24 | 51.18 | 46.78 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 21:13:27 | 51.51 | 47.11 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 21:13:28 | 51.84 | 47.44 | 121 | 1.14 | 0.29 | 6.6 |
| 5/2/2015 21:13:33 | 52.17 | 47.77 | 79 | 1.14 | 0.29 | 4.3 |
| 5/2/2015 21:13:34 | 52.49 | 48.09 | 215 | 1.14 | 0.29 | 11.7 |
| 5/2/2015 21:13:36 | 52.82 | 48.42 | 110 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 21:13:37 | 53.15 | 48.75 | 173 | 1.14 | 0.29 | 9.5 |
| 5/2/2015 21:13:38 | 53.48 | 49.08 | 264 | 1.14 | 0.29 | 14.5 |
| 5/2/2015 21:13:39 | 53.81 | 49.41 | 427 | 1.14 | 0.29 | 23.3 |
| 5/2/2015 21:13:39 | 54.13 | 49.73 | 396 | 1.14 | 0.29 | 21.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 21:13:43 | 54.46 | 50.06 | 28 | 1.14 | 0.29 | 1.5 |
| 5/2/2015 | 21:13:44 | 54.79 | 50.39 | 196 | 1.14 | 0.29 | 10.7 |
| 5/2/2015 | 21:13:53 | 55.12 | 50.72 | 120 | 1.14 | 0.29 | 6.6 |
| 5/2/2015 | 21:13:55 | 55.45 | 51.05 | 161 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 | 21:13:56 | 55.77 | 51.37 | 241 | 1.14 | 0.29 | 13.2 |
| 5/2/2015 | 21:13:59 | 56.10 | 51.70 | 206 | 1.14 | 0.29 | 11.3 |
| 5/2/2015 | 21:13:59 | 56.43 | 52.03 | 238 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 | 21:14:00 | 56.76 | 52.36 | 371 | 1.14 | 0.29 | 20.3 |
| 5/2/2015 | 21:14:01 | 57.09 | 52.69 | 456 | 1.14 | 0.29 | 24.9 |
| 5/2/2015 | 21:14:12 | 57.41 | 53.01 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 21:14:12 | 57.74 | 53.34 | 143 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 | 21:14:15 | 58.07 | 53.67 | 294 | 1.14 | 0.29 | 16.1 |
| 5/2/2015 | 21:14:16 | 58.40 | 54.00 | 220 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 | 21:14:16 | 58.73 | 54.33 | 242 | 1.14 | 0.29 | 13.3 |
| 5/2/2015 | 21:14:19 | 59.06 | 54.66 | 258 | 1.14 | 0.29 | 14.1 |
| 5/2/2015 | 21:14:20 | 59.19 | 54.79 | 193 | 1.14 | 0.29 | 10.6 |

## P111 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:11:23

**End Date:**
5/2/2015 21:15:49

**Operator Note:**
'4.4 4.2 c Auto Complete'

**Northing:**
349,568.60

**Easting:**
225,395.70

**Tide (feet):**
4.40



## Hole: P112 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:00:17 | 33.14 | 30.24 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 16:00:18 | 33.46 | 30.56 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 16:00:18 | 33.79 | 30.89 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 16:00:18 | 34.12 | 31.22 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 16:00:19 | 34.45 | 31.55 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 16:00:20 | 34.78 | 31.88 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 16:00:20 | 35.11 | 32.21 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 16:00:20 | 35.43 | 32.53 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 16:00:21 | 35.76 | 32.86 | 948 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 16:00:21 | 36.09 | 33.19 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 16:00:22 | 36.42 | 33.52 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 16:00:22 | 36.75 | 33.85 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 16:00:22 | 37.07 | 34.17 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 16:00:23 | 37.40 | 34.50 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 16:00:23 | 37.73 | 34.83 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 16:00:23 | 38.06 | 35.16 | 947 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 16:00:24 | 38.39 | 35.49 | 950 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 16:00:24 | 38.71 | 35.81 | 950 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 16:00:24 | 39.04 | 36.14 | 950 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 16:00:25 | 39.37 | 36.47 | 950 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 16:00:25 | 39.70 | 36.80 | 950 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 16:00:25 | 40.03 | 37.13 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 16:00:26 | 40.35 | 37.45 | 941 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 16:00:26 | 40.68 | 37.78 | 941 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 16:00:27 | 41.01 | 38.11 | 941 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 16:00:27 | 41.34 | 38.44 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 16:00:27 | 41.67 | 38.77 | 948 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 16:00:28 | 41.99 | 39.09 | 948 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 16:00:28 | 42.32 | 39.42 | 948 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 16:00:28 | 42.65 | 39.75 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 16:00:29 | 42.98 | 40.08 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 16:00:29 | 43.31 | 40.41 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 16:00:29 | 43.64 | 40.74 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 16:00:30 | 43.96 | 41.06 | 958 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 16:00:30 | 44.29 | 41.39 | 958 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 16:00:30 | 44.62 | 41.72 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 16:00:31 | 44.95 | 42.05 | 963 | 0.54 | 0.17 | 52.7 |
| 5/2/2015 16:00:32 | 45.28 | 42.38 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 16:00:32 | 45.60 | 42.70 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 16:00:32 | 45.93 | 43.03 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 16:00:33 | 46.26 | 43.36 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 16:00:33 | 46.59 | 43.69 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 16:00:47 | 46.92 | 44.02 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 16:00:49 | 47.24 | 44.34 | 245 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 16:00:51 | 47.57 | 44.67 | 246 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 16:00:52 | 47.90 | 45.00 | 188 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 16:00:53 | 48.23 | 45.33 | 319 | 0.54 | 0.17 | 17.5 |
| 5/2/2015 16:00:54 | 48.56 | 45.66 | 347 | 0.54 | 0.17 | 19.0 |
| 5/2/2015 16:00:56 | 48.88 | 45.98 | 268 | 0.54 | 0.17 | 14.7 |
| 5/2/2015 16:00:58 | 49.21 | 46.31 | 189 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 16:01:00 | 49.54 | 46.64 | 134 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 16:01:02 | 49.87 | 46.97 | 137 | 0.54 | 0.17 | 7.5 |
| 5/2/2015 16:01:04 | 50.20 | 47.30 | 207 | 0.54 | 0.17 | 11.3 |
| 5/2/2015 16:01:06 | 50.53 | 47.63 | 183 | 0.54 | 0.17 | 10.0 |
| 5/2/2015 16:01:08 | 50.85 | 47.95 | 215 | 0.54 | 0.17 | 11.7 |
| 5/2/2015 16:01:09 | 51.18 | 48.28 | 238 | 0.54 | 0.17 | 13.0 |
| 5/2/2015 16:01:11 | 51.51 | 48.61 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 16:01:12 | 51.84 | 48.94 | 286 | 0.54 | 0.17 | 15.6 |
| 5/2/2015 16:01:13 | 52.17 | 49.27 | 318 | 0.54 | 0.17 | 17.4 |
| 5/2/2015 16:01:15 | 52.49 | 49.59 | 124 | 0.54 | 0.17 | 6.8 |
| 5/2/2015 16:01:16 | 52.82 | 49.92 | 162 | 0.54 | 0.17 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:01:17 | 53.15 | 50.25 | 315 | 0.54 | 0.17 | 17.2 |
| 5/2/2015 | 16:01:21 | 53.48 | 50.58 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 16:01:27 | 53.81 | 50.91 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 16:01:39 | 54.13 | 51.23 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 16:01:49 | 54.46 | 51.56 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 16:01:59 | 54.79 | 51.89 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 16:02:09 | 55.12 | 52.22 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 16:02:10 | 55.17 | 52.27 | 38 | 0.54 | 0.17 | 2.1 |

## P112 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:59:06

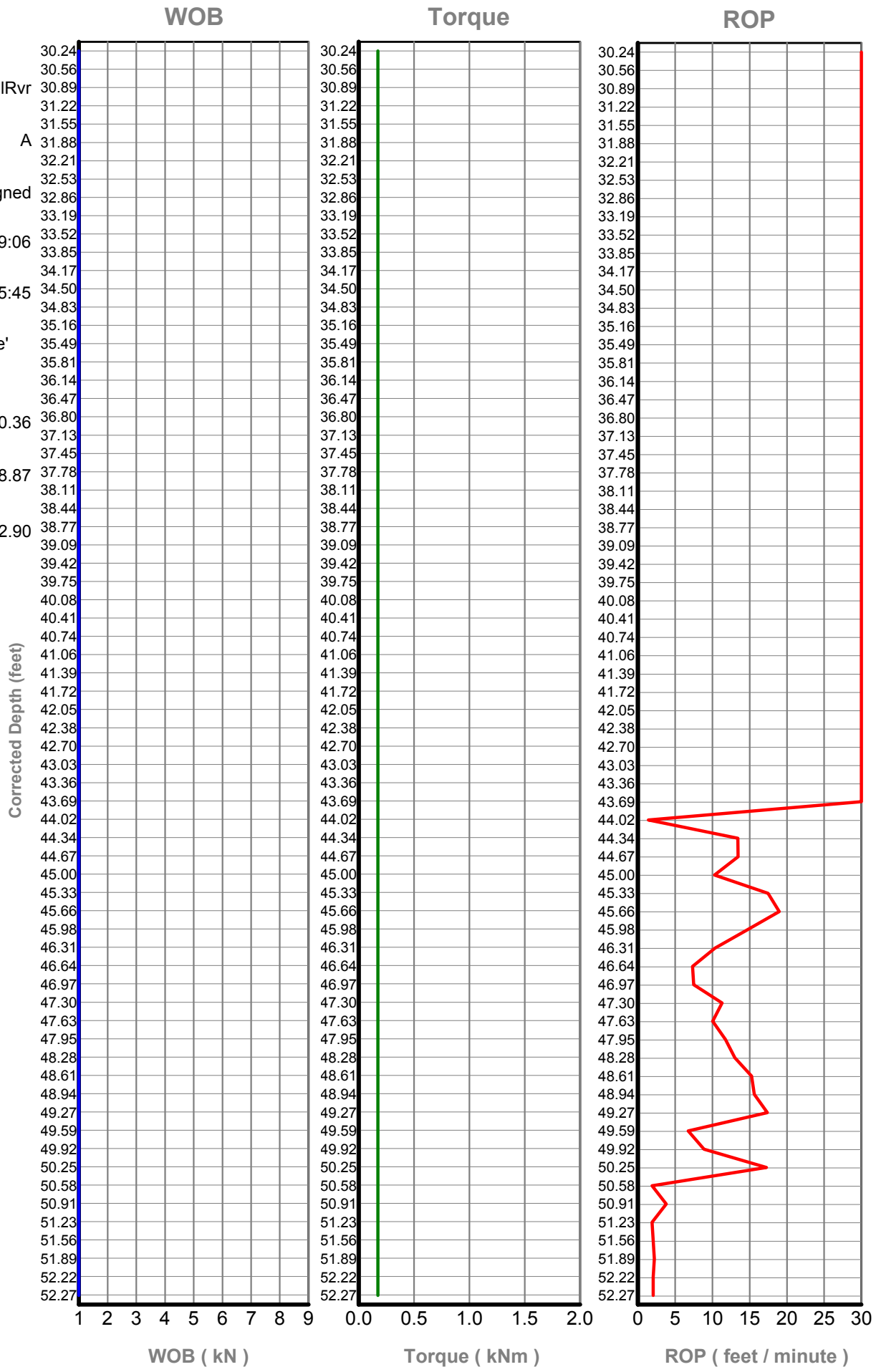
**End Date:**
5/2/2015 16:05:45

**Operator Note:**
'2.9 3.1 a Auto Complete'

**Northing:**
349,610.36

**Easting:**
225,458.87

**Tide (feet):**
2.90



## Hole: P113 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:00:41 | 33.14 | 30.14 | 1,357 | 0.28 | 0.38 | 74.2 |
| 5/2/2015 16:00:41 | 33.46 | 30.46 | 1,378 | 0.27 | 0.39 | 75.3 |
| 5/2/2015 16:00:42 | 33.79 | 30.79 | 1,378 | 0.27 | 0.39 | 75.3 |
| 5/2/2015 16:00:42 | 34.12 | 31.12 | 1,357 | 0.28 | 0.40 | 74.2 |
| 5/2/2015 16:00:42 | 34.45 | 31.45 | 1,357 | 0.28 | 0.40 | 74.2 |
| 5/2/2015 16:00:42 | 34.78 | 31.78 | 1,394 | 0.28 | 0.38 | 76.2 |
| 5/2/2015 16:00:43 | 35.11 | 32.11 | 1,394 | 0.28 | 0.38 | 76.2 |
| 5/2/2015 16:00:43 | 35.43 | 32.43 | 1,394 | 0.28 | 0.39 | 76.2 |
| 5/2/2015 16:00:43 | 35.76 | 32.76 | 1,394 | 0.28 | 0.39 | 76.2 |
| 5/2/2015 16:00:43 | 36.09 | 33.09 | 1,368 | 0.28 | 0.37 | 74.8 |
| 5/2/2015 16:00:43 | 36.42 | 33.42 | 1,368 | 0.28 | 0.37 | 74.8 |
| 5/2/2015 16:00:44 | 36.75 | 33.75 | 1,362 | 0.28 | 0.38 | 74.5 |
| 5/2/2015 16:00:44 | 37.07 | 34.07 | 1,362 | 0.28 | 0.38 | 74.5 |
| 5/2/2015 16:00:44 | 37.40 | 34.40 | 1,385 | 0.27 | 0.40 | 75.7 |
| 5/2/2015 16:00:45 | 37.73 | 34.73 | 1,385 | 0.27 | 0.40 | 75.7 |
| 5/2/2015 16:00:45 | 38.06 | 35.06 | 1,367 | 0.28 | 0.38 | 74.8 |
| 5/2/2015 16:00:45 | 38.39 | 35.39 | 1,367 | 0.28 | 0.38 | 74.8 |
| 5/2/2015 16:00:45 | 38.71 | 35.71 | 1,362 | 0.32 | 0.37 | 74.5 |
| 5/2/2015 16:00:45 | 39.04 | 36.04 | 1,362 | 0.32 | 0.37 | 74.5 |
| 5/2/2015 16:00:46 | 39.37 | 36.37 | 1,373 | 0.28 | 0.38 | 75.1 |
| 5/2/2015 16:00:46 | 39.70 | 36.70 | 1,373 | 0.28 | 0.38 | 75.1 |
| 5/2/2015 16:00:47 | 40.03 | 37.03 | 1,345 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:47 | 40.35 | 37.35 | 1,345 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:47 | 40.68 | 37.68 | 1,345 | 0.27 | 0.38 | 73.5 |
| 5/2/2015 16:00:48 | 41.01 | 38.01 | 1,345 | 0.27 | 0.38 | 73.5 |
| 5/2/2015 16:00:48 | 41.34 | 38.34 | 1,352 | 0.27 | 0.38 | 73.9 |
| 5/2/2015 16:00:48 | 41.67 | 38.67 | 1,352 | 0.27 | 0.38 | 73.9 |
| 5/2/2015 16:00:48 | 41.99 | 38.99 | 1,344 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:48 | 42.32 | 39.32 | 1,344 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:48 | 42.65 | 39.65 | 1,365 | 0.28 | 0.40 | 74.6 |
| 5/2/2015 16:00:49 | 42.98 | 39.98 | 1,365 | 0.28 | 0.40 | 74.6 |
| 5/2/2015 16:00:49 | 43.31 | 40.31 | 1,334 | 0.29 | 0.40 | 72.9 |
| 5/2/2015 16:00:50 | 43.64 | 40.64 | 1,334 | 0.29 | 0.40 | 72.9 |
| 5/2/2015 16:00:49 | 43.96 | 40.96 | 1,334 | 0.28 | 0.39 | 72.9 |
| 5/2/2015 16:00:50 | 44.29 | 41.29 | 1,334 | 0.28 | 0.39 | 72.9 |
| 5/2/2015 16:00:50 | 44.62 | 41.62 | 1,372 | 0.28 | 0.39 | 75.0 |
| 5/2/2015 16:00:50 | 44.95 | 41.95 | 1,372 | 0.28 | 0.39 | 75.0 |
| 5/2/2015 16:00:51 | 45.28 | 42.28 | 1,362 | 0.28 | 0.38 | 74.5 |
| 5/2/2015 16:00:51 | 45.60 | 42.60 | 1,362 | 0.28 | 0.38 | 74.5 |
| 5/2/2015 16:00:51 | 45.93 | 42.93 | 1,375 | 0.28 | 0.38 | 75.2 |
| 5/2/2015 16:00:52 | 46.26 | 43.26 | 1,375 | 0.28 | 0.38 | 75.2 |
| 5/2/2015 16:00:52 | 46.59 | 43.59 | 1,344 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:52 | 46.92 | 43.92 | 1,344 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:00:52 | 47.24 | 44.24 | 1,356 | 0.28 | 0.46 | 74.1 |
| 5/2/2015 16:00:52 | 47.57 | 44.57 | 1,356 | 0.28 | 0.46 | 74.1 |
| 5/2/2015 16:00:53 | 47.90 | 44.90 | 1,363 | 0.26 | 0.46 | 74.5 |
| 5/2/2015 16:00:59 | 48.23 | 45.23 | 0 | 1.68 | 0.40 | 0.0 |
| 5/2/2015 16:01:00 | 48.56 | 45.56 | 0 | 7.05 | 0.47 | 0.0 |
| 5/2/2015 16:01:02 | 48.88 | 45.88 | 165 | 2.93 | 0.43 | 9.0 |
| 5/2/2015 16:01:05 | 49.21 | 46.21 | 106 | 4.07 | 0.46 | 5.8 |
| 5/2/2015 16:01:06 | 49.54 | 46.54 | 192 | 3.12 | 0.44 | 10.5 |
| 5/2/2015 16:01:11 | 49.87 | 46.87 | 40 | 2.90 | 0.47 | 2.2 |
| 5/2/2015 16:01:12 | 50.20 | 47.20 | 107 | 3.56 | 0.45 | 5.9 |
| 5/2/2015 16:01:15 | 50.53 | 47.53 | 9 | 3.15 | 0.45 | 0.5 |
| 5/2/2015 16:01:16 | 50.85 | 47.85 | 132 | 2.88 | 0.45 | 7.2 |
| 5/2/2015 16:01:17 | 51.18 | 48.18 | 245 | 3.01 | 0.44 | 13.4 |
| 5/2/2015 16:01:21 | 51.51 | 48.51 | 16 | 1.96 | 0.42 | 0.9 |
| 5/2/2015 16:01:21 | 51.84 | 48.84 | 16 | 1.96 | 0.42 | 0.9 |
| 5/2/2015 16:01:42 | 52.17 | 49.17 | 26 | 3.83 | 0.44 | 1.4 |
| 5/2/2015 16:01:42 | 52.49 | 49.49 | 132 | 2.57 | 0.45 | 7.2 |
| 5/2/2015 16:01:48 | 52.82 | 49.82 | 24 | 2.56 | 0.47 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:01:48 | 53.15 | 50.15 | 138 | 1.94 | 0.43 | 7.5 |
| 5/2/2015 | 16:01:49 | 53.48 | 50.48 | 274 | 1.74 | 0.44 | 15.0 |
| 5/2/2015 | 16:01:54 | 53.81 | 50.81 | 0 | 2.03 | 0.41 | 0.0 |
| 5/2/2015 | 16:01:56 | 54.13 | 51.13 | 191 | 2.77 | 0.48 | 10.4 |
| 5/2/2015 | 16:01:57 | 54.46 | 51.46 | 204 | 2.84 | 0.47 | 11.2 |
| 5/2/2015 | 16:02:03 | 54.79 | 51.79 | 0 | 2.18 | 0.46 | 0.0 |
| 5/2/2015 | 16:02:06 | 55.12 | 52.12 | 149 | 2.19 | 0.49 | 8.2 |
| 5/2/2015 | 16:02:08 | 55.45 | 52.45 | 167 | 2.21 | 0.46 | 9.1 |
| 5/2/2015 | 16:02:08 | 55.77 | 52.77 | 189 | 2.26 | 0.44 | 10.3 |
| 5/2/2015 | 16:02:09 | 56.10 | 53.10 | 294 | 3.11 | 0.46 | 16.0 |
| 5/2/2015 | 16:02:10 | 56.43 | 53.43 | 427 | 3.26 | 0.45 | 23.4 |
| 5/2/2015 | 16:02:11 | 56.76 | 53.76 | 522 | 3.65 | 0.45 | 28.5 |
| 5/2/2015 | 16:02:13 | 57.09 | 54.09 | 302 | 3.38 | 0.46 | 16.5 |
| 5/2/2015 | 16:02:13 | 57.41 | 54.41 | 251 | 4.22 | 0.46 | 13.7 |
| 5/2/2015 | 16:02:14 | 57.74 | 54.74 | 248 | 2.86 | 0.45 | 13.6 |
| 5/2/2015 | 16:02:15 | 58.07 | 55.07 | 456 | 4.75 | 0.48 | 25.0 |
| 5/2/2015 | 16:02:15 | 58.19 | 55.19 | 456 | 4.75 | 0.48 | 25.0 |

## P113 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:54:23

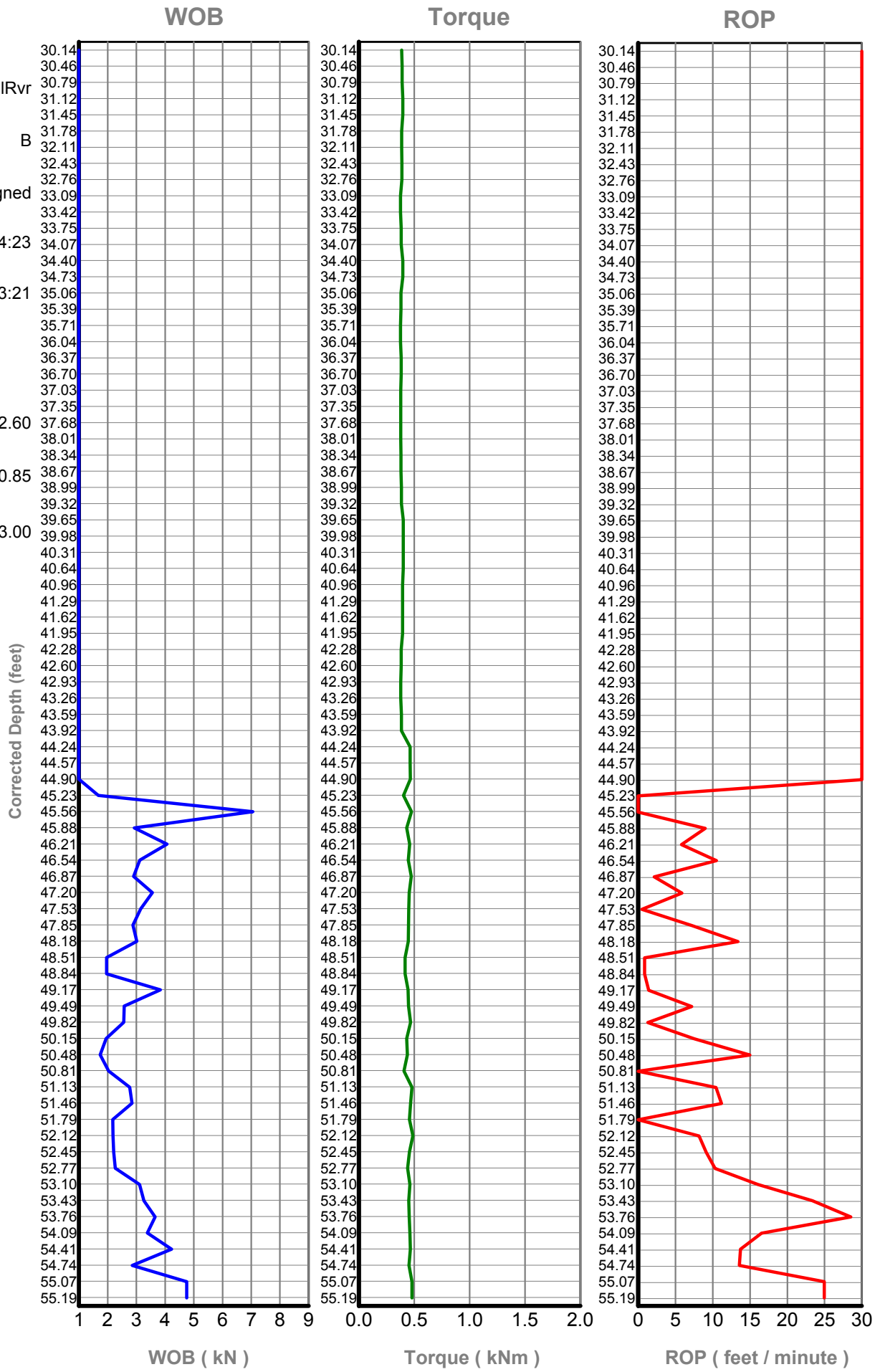
**End Date:**
5/2/2015 16:03:21

**Operator Note:**
'3 3.1 b Auto Complete'

**Northing:**
349,652.60

**Easting:**
225,520.85

**Tide (feet):**
3.00



## Hole: P114 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:59:44 | 33.14 | 30.24 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:45 | 33.46 | 30.56 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:45 | 33.79 | 30.89 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/2/2015 15:59:45 | 34.12 | 31.22 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/2/2015 15:59:45 | 34.45 | 31.55 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/2/2015 15:59:46 | 34.78 | 31.88 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:46 | 35.11 | 32.21 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:46 | 35.43 | 32.53 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/2/2015 15:59:47 | 35.76 | 32.86 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/2/2015 15:59:47 | 36.09 | 33.19 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 15:59:47 | 36.42 | 33.52 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:48 | 36.75 | 33.85 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:48 | 37.07 | 34.17 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:48 | 37.40 | 34.50 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:48 | 37.73 | 34.83 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:59:49 | 38.06 | 35.16 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/2/2015 15:59:49 | 38.39 | 35.49 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/2/2015 15:59:49 | 38.71 | 35.81 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:50 | 39.04 | 36.14 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:59:50 | 39.37 | 36.47 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 15:59:50 | 39.70 | 36.80 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 15:59:51 | 40.03 | 37.13 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 15:59:51 | 40.35 | 37.45 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 15:59:51 | 40.68 | 37.78 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 15:59:51 | 41.01 | 38.11 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 15:59:52 | 41.34 | 38.44 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 15:59:52 | 41.67 | 38.77 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 15:59:52 | 41.99 | 39.09 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:59:53 | 42.32 | 39.42 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:59:53 | 42.65 | 39.75 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:53 | 42.98 | 40.08 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:54 | 43.31 | 40.41 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:59:54 | 43.64 | 40.74 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/2/2015 15:59:55 | 43.96 | 41.06 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/2/2015 15:59:55 | 44.29 | 41.39 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:59:55 | 44.62 | 41.72 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 15:59:56 | 44.95 | 42.05 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 15:59:56 | 45.28 | 42.38 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:59:56 | 45.60 | 42.70 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:59:56 | 45.93 | 43.03 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:59:57 | 46.26 | 43.36 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 15:59:57 | 46.59 | 43.69 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 16:00:10 | 46.92 | 44.02 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:00:11 | 47.24 | 44.34 | 177 | 1.14 | 0.29 | 9.7 |
| 5/2/2015 16:00:12 | 47.57 | 44.67 | 296 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 16:00:34 | 47.90 | 45.00 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:00:34 | 48.23 | 45.33 | 83 | 1.14 | 0.29 | 4.6 |
| 5/2/2015 16:00:35 | 48.56 | 45.66 | 206 | 1.14 | 0.29 | 11.3 |
| 5/2/2015 16:01:44 | 48.88 | 45.98 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:01:45 | 49.21 | 46.31 | 114 | 1.14 | 0.29 | 6.2 |
| 5/2/2015 16:01:46 | 49.54 | 46.64 | 279 | 1.14 | 0.29 | 15.3 |
| 5/2/2015 16:01:46 | 49.87 | 46.97 | 373 | 1.14 | 0.29 | 20.4 |
| 5/2/2015 16:01:47 | 50.20 | 47.30 | 442 | 1.14 | 0.29 | 24.1 |
| 5/2/2015 16:02:03 | 50.53 | 47.63 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:02:03 | 50.85 | 47.95 | 76 | 1.14 | 0.29 | 4.1 |
| 5/2/2015 16:02:04 | 51.18 | 48.28 | 193 | 1.14 | 0.29 | 10.6 |
| 5/2/2015 16:02:05 | 51.51 | 48.61 | 325 | 1.14 | 0.29 | 17.8 |
| 5/2/2015 16:02:05 | 51.84 | 48.94 | 457 | 1.14 | 0.29 | 25.0 |
| 5/2/2015 16:02:06 | 52.17 | 49.27 | 622 | 1.14 | 0.29 | 34.0 |
| 5/2/2015 16:02:06 | 52.49 | 49.59 | 622 | 1.14 | 0.29 | 34.0 |
| 5/2/2015 16:02:07 | 52.82 | 49.92 | 701 | 1.14 | 0.29 | 38.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:02:07 | 53.15 | 50.25 | 720 | 1.14 | 0.29 | 39.4 |
| 5/2/2015 | 16:02:12 | 53.48 | 50.58 | 43 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 16:02:13 | 53.81 | 50.91 | 231 | 1.14 | 0.29 | 12.7 |
| 5/2/2015 | 16:02:14 | 54.13 | 51.23 | 384 | 1.14 | 0.29 | 21.0 |
| 5/2/2015 | 16:02:15 | 54.46 | 51.56 | 363 | 1.14 | 0.29 | 19.9 |
| 5/2/2015 | 16:02:31 | 54.79 | 51.89 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 16:02:33 | 55.12 | 52.22 | 159 | 1.14 | 0.29 | 8.7 |
| 5/2/2015 | 16:02:34 | 55.45 | 52.55 | 254 | 1.14 | 0.29 | 13.9 |
| 5/2/2015 | 16:02:35 | 55.77 | 52.87 | 226 | 1.14 | 0.29 | 12.4 |
| 5/2/2015 | 16:02:38 | 56.10 | 53.20 | 167 | 1.14 | 0.29 | 9.1 |
| 5/2/2015 | 16:02:40 | 56.43 | 53.53 | 135 | 1.14 | 0.29 | 7.4 |
| 5/2/2015 | 16:02:42 | 56.76 | 53.86 | 171 | 1.14 | 0.29 | 9.4 |
| 5/2/2015 | 16:02:44 | 57.09 | 54.19 | 160 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 | 16:02:47 | 57.41 | 54.51 | 103 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 | 16:02:49 | 57.74 | 54.84 | 207 | 1.14 | 0.29 | 11.3 |
| 5/2/2015 | 16:02:50 | 58.07 | 55.17 | 291 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 | 16:02:50 | 58.13 | 55.23 | 288 | 1.14 | 0.29 | 15.8 |

## P114 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:58:41

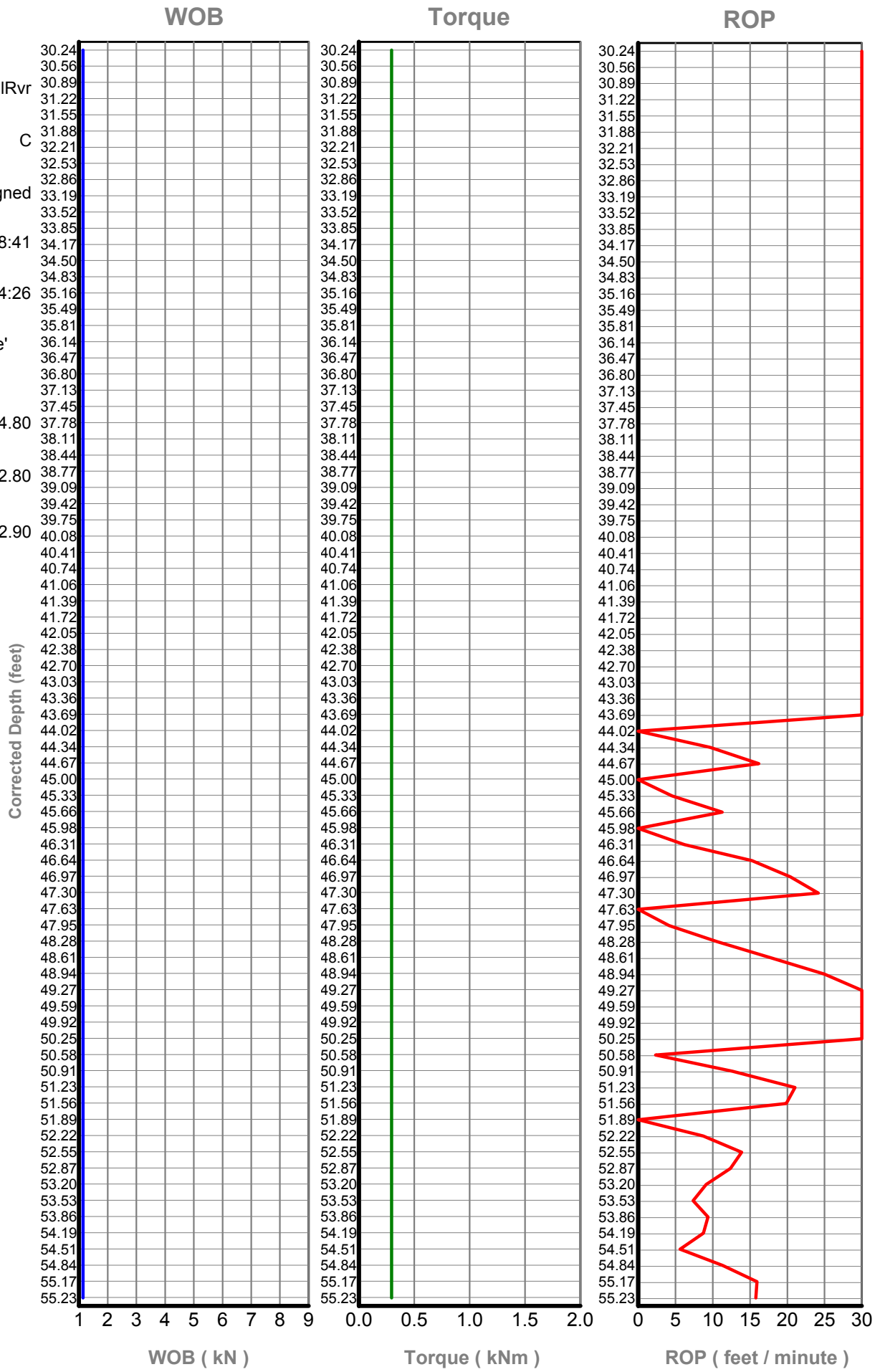
**End Date:**
5/2/2015 16:04:26

**Operator Note:**
'2.9 3.1 c Auto Complete'

**Northing:**
349,694.80

**Easting:**
225,582.80

**Tide (feet):**
2.90



## Hole: P115 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:43:26 | 35.43 | 30.13 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 13:43:26 | 35.76 | 30.46 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:43:27 | 36.09 | 30.79 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:43:27 | 36.42 | 31.12 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:43:27 | 36.75 | 31.45 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:43:28 | 37.07 | 31.77 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:43:28 | 37.40 | 32.10 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:43:28 | 37.73 | 32.43 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:43:29 | 38.06 | 32.76 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:43:29 | 38.39 | 33.09 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:43:29 | 38.71 | 33.41 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:30 | 39.04 | 33.74 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:30 | 39.37 | 34.07 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:30 | 39.70 | 34.40 | 959 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 13:43:31 | 40.03 | 34.73 | 965 | 0.54 | 0.17 | 52.7 |
| 5/2/2015 13:43:31 | 40.35 | 35.05 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:43:32 | 40.68 | 35.38 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:43:32 | 41.01 | 35.71 | 959 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 13:43:32 | 41.34 | 36.04 | 970 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:43:33 | 41.67 | 36.37 | 970 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:43:33 | 41.99 | 36.69 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:34 | 42.32 | 37.02 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:34 | 42.65 | 37.35 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:35 | 42.98 | 37.68 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:35 | 43.31 | 38.01 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:35 | 43.64 | 38.34 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:36 | 43.96 | 38.66 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:36 | 44.29 | 38.99 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:36 | 44.62 | 39.32 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:43:37 | 44.95 | 39.65 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:43:37 | 45.28 | 39.98 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:43:37 | 45.60 | 40.30 | 946 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 13:43:38 | 45.93 | 40.63 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 13:43:38 | 46.26 | 40.96 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 13:43:38 | 46.59 | 41.29 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 13:43:39 | 46.92 | 41.62 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:43:39 | 47.24 | 41.94 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:43:40 | 47.57 | 42.27 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:43:40 | 47.90 | 42.60 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 13:43:40 | 48.23 | 42.93 | 947 | 0.54 | 0.17 | 51.8 |
| 5/2/2015 13:43:41 | 48.56 | 43.26 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:41 | 48.88 | 43.58 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:43:41 | 49.21 | 43.91 | 946 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 13:43:42 | 49.54 | 44.24 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 13:43:56 | 49.87 | 44.57 | 53 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 13:43:58 | 50.20 | 44.90 | 53 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 13:43:59 | 50.53 | 45.23 | 151 | 0.54 | 0.17 | 8.3 |
| 5/2/2015 13:44:07 | 50.85 | 45.55 | 19 | 0.54 | 0.17 | 1.0 |
| 5/2/2015 13:44:09 | 51.18 | 45.88 | 134 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 13:44:11 | 51.51 | 46.21 | 144 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 13:44:13 | 51.84 | 46.54 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 13:44:15 | 52.17 | 46.87 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 13:44:16 | 52.49 | 47.19 | 253 | 0.54 | 0.17 | 13.9 |
| 5/2/2015 13:44:17 | 52.82 | 47.52 | 305 | 0.54 | 0.17 | 16.7 |
| 5/2/2015 13:44:18 | 53.15 | 47.85 | 323 | 0.54 | 0.17 | 17.6 |
| 5/2/2015 13:44:20 | 53.48 | 48.18 | 230 | 0.54 | 0.17 | 12.6 |
| 5/2/2015 13:44:20 | 53.81 | 48.51 | 271 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 13:44:25 | 54.13 | 48.83 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 13:44:26 | 54.46 | 49.16 | 118 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 13:44:27 | 54.79 | 49.49 | 266 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 13:44:42 | 55.12 | 49.82 | 65 | 0.54 | 0.17 | 3.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:44:44 | 55.45 | 50.15 | 123 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 | 13:44:46 | 55.77 | 50.47 | 141 | 0.54 | 0.17 | 7.7 |
| 5/2/2015 | 13:44:51 | 56.10 | 50.80 | 71 | 0.54 | 0.17 | 3.9 |
| 5/2/2015 | 13:44:51 | 56.43 | 51.13 | 110 | 0.54 | 0.17 | 6.0 |
| 5/2/2015 | 13:44:53 | 56.76 | 51.46 | 272 | 0.54 | 0.17 | 14.9 |
| 5/2/2015 | 13:44:54 | 57.09 | 51.79 | 372 | 0.54 | 0.17 | 20.4 |
| 5/2/2015 | 13:44:54 | 57.41 | 52.11 | 368 | 0.54 | 0.17 | 20.1 |
| 5/2/2015 | 13:44:57 | 57.74 | 52.44 | 172 | 0.54 | 0.17 | 9.4 |
| 5/2/2015 | 13:44:59 | 58.07 | 52.77 | 213 | 0.54 | 0.17 | 11.7 |
| 5/2/2015 | 13:45:00 | 58.40 | 53.10 | 276 | 0.54 | 0.17 | 15.1 |
| 5/2/2015 | 13:45:01 | 58.73 | 53.43 | 276 | 0.54 | 0.17 | 15.1 |
| 5/2/2015 | 13:45:02 | 59.06 | 53.76 | 282 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 | 13:45:04 | 59.38 | 54.08 | 282 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 | 13:45:11 | 59.71 | 54.41 | 13 | 0.54 | 0.17 | 0.7 |
| 5/2/2015 | 13:45:18 | 60.04 | 54.74 | 24 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 | 13:45:25 | 60.37 | 55.07 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 | 13:45:26 | 60.58 | 55.28 | 79 | 0.54 | 0.17 | 4.3 |

## P115 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:41:59

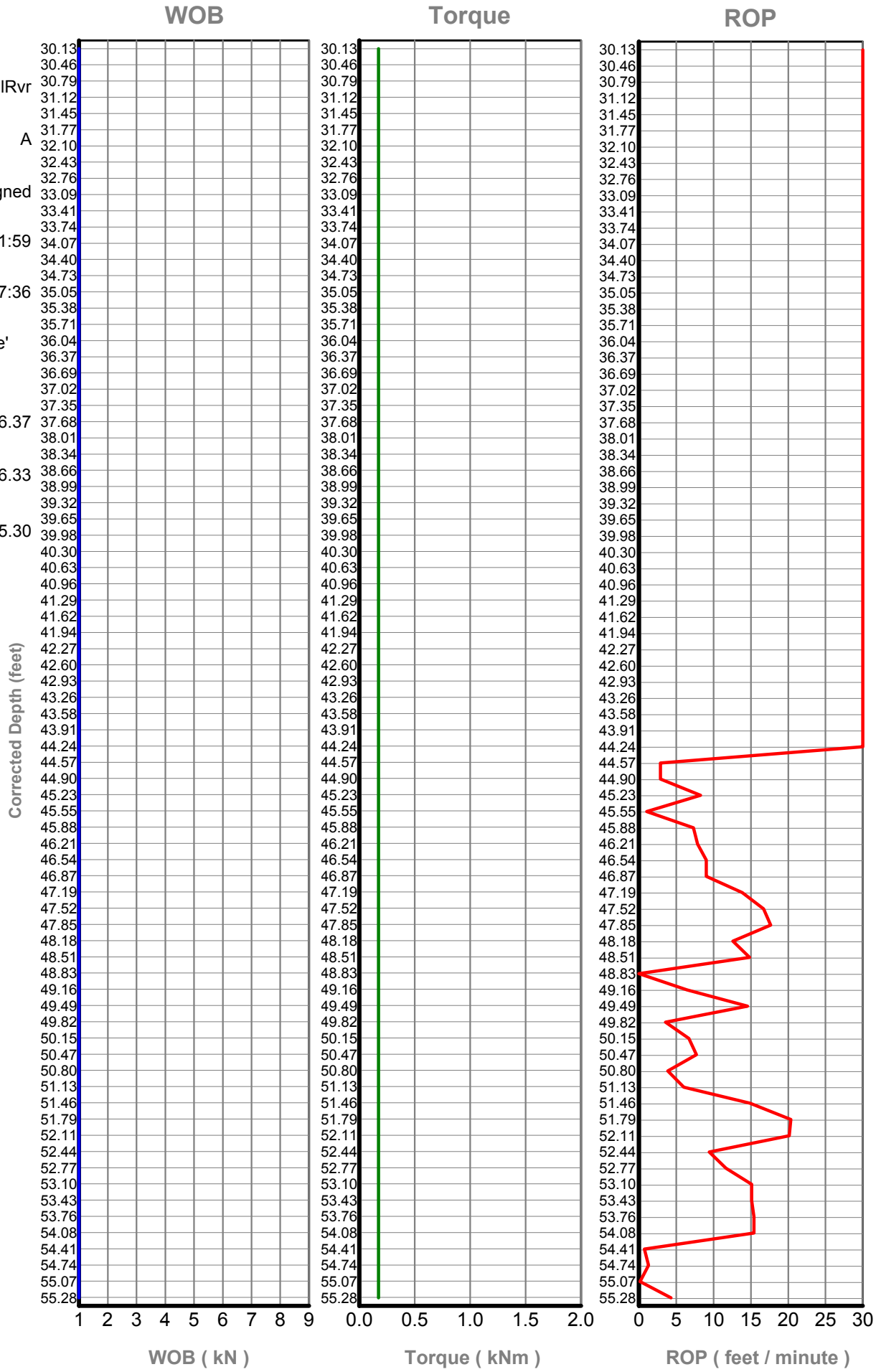
**End Date:**
5/2/2015 13:47:36

**Operator Note:**
'5.3 5.6 a Auto Complete'

**Northing:**
349,726.37

**Easting:**
225,656.33

**Tide (feet):**
5.30



## Hole: P116 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:43:12 | 35.43 | 30.13 | 1,224 | 0.31 | 0.41 | 67.0 |
| 5/2/2015 13:43:13 | 35.76 | 30.46 | 1,224 | 0.31 | 0.41 | 67.0 |
| 5/2/2015 13:43:13 | 36.09 | 30.79 | 1,261 | 0.31 | 0.40 | 69.0 |
| 5/2/2015 13:43:13 | 36.42 | 31.12 | 1,261 | 0.31 | 0.40 | 69.0 |
| 5/2/2015 13:43:13 | 36.75 | 31.45 | 1,231 | 0.31 | 0.40 | 67.3 |
| 5/2/2015 13:43:14 | 37.07 | 31.77 | 1,231 | 0.31 | 0.40 | 67.3 |
| 5/2/2015 13:43:14 | 37.40 | 32.10 | 1,231 | 0.31 | 0.39 | 67.3 |
| 5/2/2015 13:43:14 | 37.73 | 32.43 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/2/2015 13:43:15 | 38.06 | 32.76 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/2/2015 13:43:15 | 38.39 | 33.09 | 1,230 | 0.31 | 0.39 | 67.3 |
| 5/2/2015 13:43:16 | 38.71 | 33.41 | 1,230 | 0.31 | 0.39 | 67.3 |
| 5/2/2015 13:43:16 | 39.04 | 33.74 | 1,233 | 0.33 | 0.40 | 67.4 |
| 5/2/2015 13:43:16 | 39.37 | 34.07 | 1,233 | 0.33 | 0.40 | 67.4 |
| 5/2/2015 13:43:16 | 39.70 | 34.40 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/2/2015 13:43:16 | 40.03 | 34.73 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/2/2015 13:43:17 | 40.35 | 35.05 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/2/2015 13:43:17 | 40.68 | 35.38 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/2/2015 13:43:17 | 41.01 | 35.71 | 1,267 | 0.31 | 0.40 | 69.3 |
| 5/2/2015 13:43:18 | 41.34 | 36.04 | 1,269 | 0.34 | 0.40 | 69.4 |
| 5/2/2015 13:43:18 | 41.67 | 36.37 | 1,269 | 0.34 | 0.40 | 69.4 |
| 5/2/2015 13:43:18 | 41.99 | 36.69 | 1,236 | 0.33 | 0.39 | 67.6 |
| 5/2/2015 13:43:19 | 42.32 | 37.02 | 1,236 | 0.33 | 0.39 | 67.6 |
| 5/2/2015 13:43:19 | 42.65 | 37.35 | 1,269 | 0.31 | 0.39 | 69.4 |
| 5/2/2015 13:43:19 | 42.98 | 37.68 | 1,269 | 0.31 | 0.39 | 69.4 |
| 5/2/2015 13:43:19 | 43.31 | 38.01 | 1,238 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 13:43:20 | 43.64 | 38.34 | 1,238 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 13:43:20 | 43.96 | 38.66 | 1,238 | 0.30 | 0.39 | 67.7 |
| 5/2/2015 13:43:20 | 44.29 | 38.99 | 1,238 | 0.30 | 0.39 | 67.7 |
| 5/2/2015 13:43:20 | 44.62 | 39.32 | 1,236 | 0.33 | 0.40 | 67.6 |
| 5/2/2015 13:43:21 | 44.95 | 39.65 | 1,226 | 0.32 | 0.41 | 67.0 |
| 5/2/2015 13:43:21 | 45.28 | 39.98 | 1,226 | 0.32 | 0.41 | 67.0 |
| 5/2/2015 13:43:21 | 45.60 | 40.30 | 1,261 | 0.31 | 0.41 | 69.0 |
| 5/2/2015 13:43:22 | 45.93 | 40.63 | 1,261 | 0.31 | 0.41 | 69.0 |
| 5/2/2015 13:43:22 | 46.26 | 40.96 | 1,228 | 0.31 | 0.39 | 67.2 |
| 5/2/2015 13:43:22 | 46.59 | 41.29 | 1,228 | 0.31 | 0.39 | 67.2 |
| 5/2/2015 13:43:22 | 46.92 | 41.62 | 1,265 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 13:43:23 | 47.24 | 41.94 | 1,265 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 13:43:23 | 47.57 | 42.27 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/2/2015 13:43:23 | 47.90 | 42.60 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/2/2015 13:43:23 | 48.23 | 42.93 | 1,253 | 0.31 | 0.42 | 68.5 |
| 5/2/2015 13:43:24 | 48.56 | 43.26 | 1,253 | 0.31 | 0.40 | 68.5 |
| 5/2/2015 13:43:25 | 48.88 | 43.58 | 1,253 | 0.31 | 0.40 | 68.5 |
| 5/2/2015 13:43:24 | 49.21 | 43.91 | 1,236 | 0.29 | 0.43 | 67.6 |
| 5/2/2015 13:43:25 | 49.54 | 44.24 | 1,236 | 0.29 | 0.43 | 67.6 |
| 5/2/2015 13:43:35 | 49.87 | 44.57 | 56 | 3.13 | 0.46 | 3.0 |
| 5/2/2015 13:43:41 | 50.20 | 44.90 | 53 | 3.81 | 0.47 | 2.9 |
| 5/2/2015 13:43:42 | 50.53 | 45.23 | 176 | 7.40 | 0.47 | 9.6 |
| 5/2/2015 13:43:46 | 50.85 | 45.55 | 90 | 4.38 | 0.46 | 4.9 |
| 5/2/2015 13:43:48 | 51.18 | 45.88 | 221 | 3.23 | 0.46 | 12.1 |
| 5/2/2015 13:43:48 | 51.51 | 46.21 | 321 | 3.70 | 0.47 | 17.6 |
| 5/2/2015 13:43:52 | 51.84 | 46.54 | 16 | 3.60 | 0.48 | 0.9 |
| 5/2/2015 13:43:56 | 52.17 | 46.87 | 103 | 2.55 | 0.48 | 5.7 |
| 5/2/2015 13:43:57 | 52.49 | 47.19 | 127 | 2.29 | 0.44 | 7.0 |
| 5/2/2015 13:43:58 | 52.82 | 47.52 | 208 | 2.23 | 0.44 | 11.4 |
| 5/2/2015 13:43:58 | 53.15 | 47.85 | 208 | 2.55 | 0.44 | 11.4 |
| 5/2/2015 13:43:59 | 53.48 | 48.18 | 336 | 2.65 | 0.44 | 18.4 |
| 5/2/2015 13:44:04 | 53.81 | 48.51 | 71 | 2.32 | 0.47 | 3.9 |
| 5/2/2015 13:44:13 | 54.13 | 48.83 | 0 | 2.41 | 0.48 | 0.0 |
| 5/2/2015 13:44:16 | 54.46 | 49.16 | 151 | 2.38 | 0.47 | 8.2 |
| 5/2/2015 13:44:22 | 54.79 | 49.49 | 13 | 2.16 | 0.40 | 0.7 |
| 5/2/2015 13:44:24 | 55.12 | 49.82 | 118 | 3.37 | 0.47 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:44:28 | 55.45 | 50.15 | 34 | 4.23 | 0.48 | 1.9 |
| 5/2/2015 | 13:44:30 | 55.77 | 50.47 | 113 | 2.56 | 0.46 | 6.2 |
| 5/2/2015 | 13:44:31 | 56.10 | 50.80 | 259 | 2.47 | 0.48 | 14.1 |
| 5/2/2015 | 13:44:34 | 56.43 | 51.13 | 85 | 2.41 | 0.47 | 4.7 |
| 5/2/2015 | 13:44:35 | 56.76 | 51.46 | 237 | 2.24 | 0.45 | 12.9 |
| 5/2/2015 | 13:44:36 | 57.09 | 51.79 | 269 | 2.19 | 0.45 | 14.7 |
| 5/2/2015 | 13:44:37 | 57.41 | 52.11 | 327 | 2.27 | 0.44 | 17.9 |
| 5/2/2015 | 13:44:38 | 57.74 | 52.44 | 323 | 2.05 | 0.42 | 17.7 |
| 5/2/2015 | 13:44:39 | 58.07 | 52.77 | 349 | 2.27 | 0.44 | 19.1 |
| 5/2/2015 | 13:44:40 | 58.40 | 53.10 | 367 | 2.29 | 0.44 | 20.0 |
| 5/2/2015 | 13:44:40 | 58.73 | 53.43 | 387 | 2.27 | 0.44 | 21.1 |
| 5/2/2015 | 13:44:42 | 59.06 | 53.76 | 321 | 2.33 | 0.44 | 17.6 |
| 5/2/2015 | 13:44:43 | 59.38 | 54.08 | 332 | 2.34 | 0.44 | 18.2 |
| 5/2/2015 | 13:44:44 | 59.71 | 54.41 | 321 | 2.26 | 0.45 | 17.6 |
| 5/2/2015 | 13:44:45 | 60.04 | 54.74 | 404 | 2.20 | 0.44 | 22.1 |
| 5/2/2015 | 13:44:45 | 60.37 | 55.07 | 398 | 2.21 | 0.43 | 21.8 |
| 5/2/2015 | 13:44:47 | 60.61 | 55.31 | 410 | 2.02 | 0.42 | 22.4 |

## P116 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:41:24

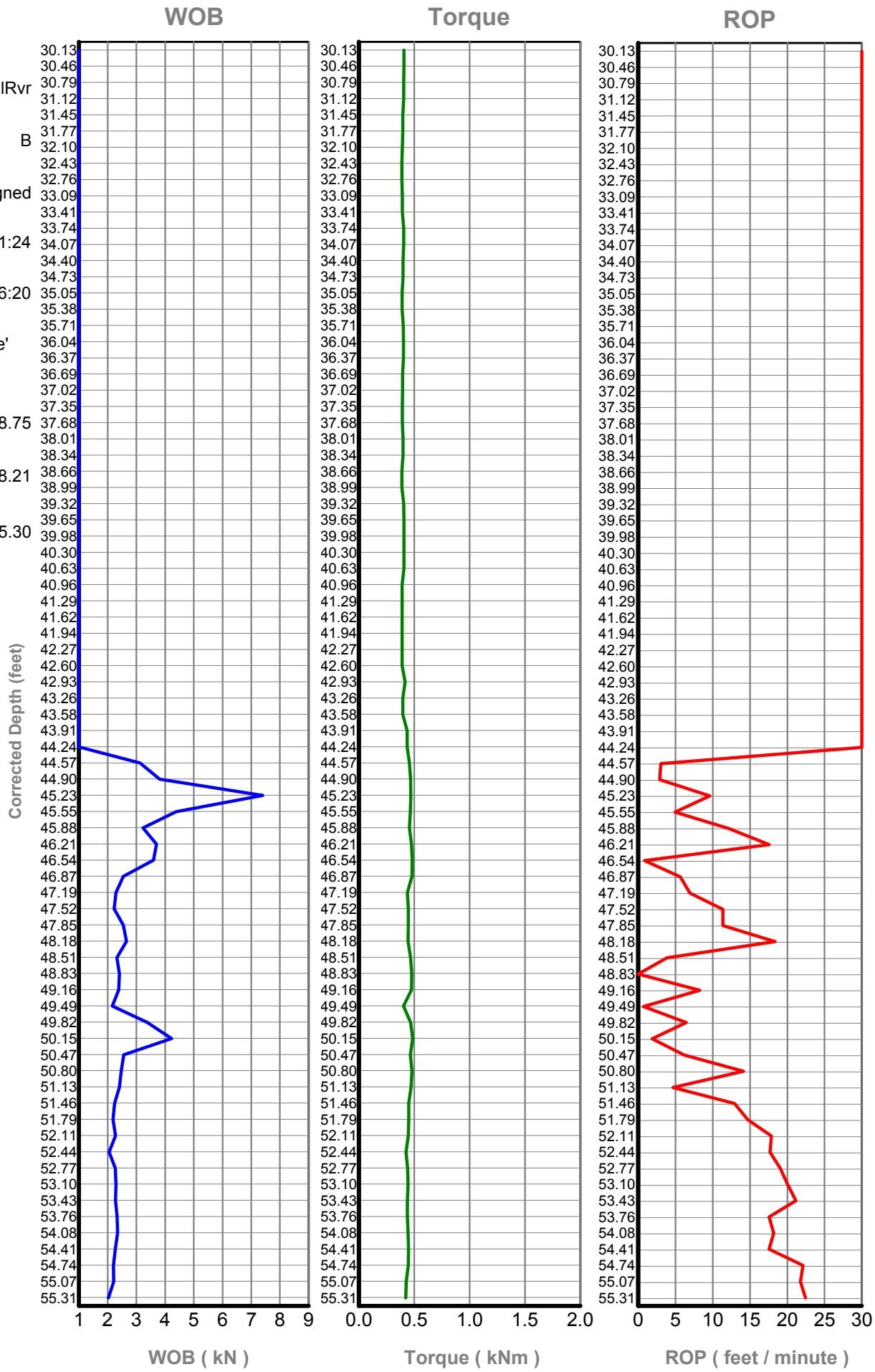
**End Date:**
5/2/2015 13:46:20

**Operator Note:**
'5.3 5.6 b Auto Complete'

**Northing:**
349,768.75

**Easting:**
225,718.21

**Tide (feet):**
5.30



## Hole: P117 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:42:34 | 35.43 | 30.13 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 13:42:33 | 35.76 | 30.46 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:34 | 36.09 | 30.79 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:35 | 36.42 | 31.12 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:35 | 36.75 | 31.45 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 13:42:35 | 37.07 | 31.77 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 13:42:36 | 37.40 | 32.10 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 13:42:36 | 37.73 | 32.43 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:36 | 38.06 | 32.76 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:37 | 38.39 | 33.09 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:37 | 38.71 | 33.41 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:37 | 39.04 | 33.74 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:37 | 39.37 | 34.07 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 13:42:38 | 39.70 | 34.40 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 13:42:38 | 40.03 | 34.73 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 13:42:38 | 40.35 | 35.05 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 13:42:39 | 40.68 | 35.38 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:39 | 41.01 | 35.71 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:39 | 41.34 | 36.04 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 13:42:40 | 41.67 | 36.37 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:40 | 41.99 | 36.69 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:40 | 42.32 | 37.02 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:41 | 42.65 | 37.35 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:41 | 42.98 | 37.68 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:41 | 43.31 | 38.01 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:42:42 | 43.64 | 38.34 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:42:42 | 43.96 | 38.66 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:42 | 44.29 | 38.99 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:43 | 44.62 | 39.32 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:43 | 44.95 | 39.65 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:42:43 | 45.28 | 39.98 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:42:44 | 45.60 | 40.30 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:42:44 | 45.93 | 40.63 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:44 | 46.26 | 40.96 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 13:42:44 | 46.59 | 41.29 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 13:42:45 | 46.92 | 41.62 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 13:42:45 | 47.24 | 41.94 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 13:42:45 | 47.57 | 42.27 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 13:42:46 | 47.90 | 42.60 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:47 | 48.23 | 42.93 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 13:42:47 | 48.56 | 43.26 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 13:42:47 | 48.88 | 43.58 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 13:43:04 | 49.21 | 43.91 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 13:43:05 | 49.54 | 44.24 | 142 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 13:43:06 | 49.87 | 44.57 | 309 | 1.14 | 0.29 | 16.9 |
| 5/2/2015 13:43:07 | 50.20 | 44.90 | 410 | 1.14 | 0.29 | 22.4 |
| 5/2/2015 13:43:07 | 50.53 | 45.23 | 418 | 1.14 | 0.29 | 22.9 |
| 5/2/2015 13:43:08 | 50.85 | 45.55 | 437 | 1.14 | 0.29 | 23.9 |
| 5/2/2015 13:43:09 | 51.18 | 45.88 | 455 | 1.14 | 0.29 | 24.9 |
| 5/2/2015 13:44:01 | 51.51 | 46.21 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 13:45:02 | 51.84 | 46.54 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 13:45:59 | 52.17 | 46.87 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 13:46:00 | 52.49 | 47.19 | 123 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 13:46:01 | 52.82 | 47.52 | 223 | 1.14 | 0.29 | 12.2 |
| 5/2/2015 13:46:01 | 53.15 | 47.85 | 326 | 1.14 | 0.29 | 17.8 |
| 5/2/2015 13:46:47 | 53.48 | 48.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 13:46:48 | 53.81 | 48.51 | 151 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 13:46:49 | 54.13 | 48.83 | 251 | 1.14 | 0.29 | 13.7 |
| 5/2/2015 13:46:49 | 54.46 | 49.16 | 375 | 1.14 | 0.29 | 20.5 |
| 5/2/2015 13:46:50 | 54.79 | 49.49 | 496 | 1.14 | 0.29 | 27.1 |
| 5/2/2015 13:47:08 | 55.12 | 49.82 | 109 | 1.14 | 0.29 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:47:08 | 55.45 | 50.15 | 200 | 1.14 | 0.29 | 10.9 |
| 5/2/2015 | 13:47:15 | 55.77 | 50.47 | 12 | 1.14 | 0.29 | 0.6 |
| 5/2/2015 | 13:47:16 | 56.10 | 50.80 | 163 | 1.14 | 0.29 | 8.9 |
| 5/2/2015 | 13:47:18 | 56.43 | 51.13 | 325 | 1.14 | 0.29 | 17.8 |
| 5/2/2015 | 13:47:25 | 56.76 | 51.46 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 13:47:26 | 57.09 | 51.79 | 142 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 | 13:47:30 | 57.41 | 52.11 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 13:47:42 | 57.74 | 52.44 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 | 13:47:43 | 58.07 | 52.77 | 165 | 1.14 | 0.29 | 9.0 |
| 5/2/2015 | 13:47:43 | 58.40 | 53.10 | 256 | 1.14 | 0.29 | 14.0 |
| 5/2/2015 | 13:47:50 | 58.73 | 53.43 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 | 13:47:51 | 59.06 | 53.76 | 91 | 1.14 | 0.29 | 5.0 |
| 5/2/2015 | 13:47:52 | 59.38 | 54.08 | 262 | 1.14 | 0.29 | 14.3 |
| 5/2/2015 | 13:48:00 | 59.71 | 54.41 | 12 | 1.14 | 0.29 | 0.6 |
| 5/2/2015 | 13:48:01 | 60.04 | 54.74 | 154 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 | 13:48:02 | 60.37 | 55.07 | 316 | 1.14 | 0.29 | 17.3 |
| 5/2/2015 | 13:48:03 | 60.70 | 55.40 | 410 | 1.14 | 0.29 | 22.4 |
| 5/2/2015 | 13:48:03 | 60.77 | 55.47 | 413 | 1.14 | 0.29 | 22.6 |

## P117 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:41:21

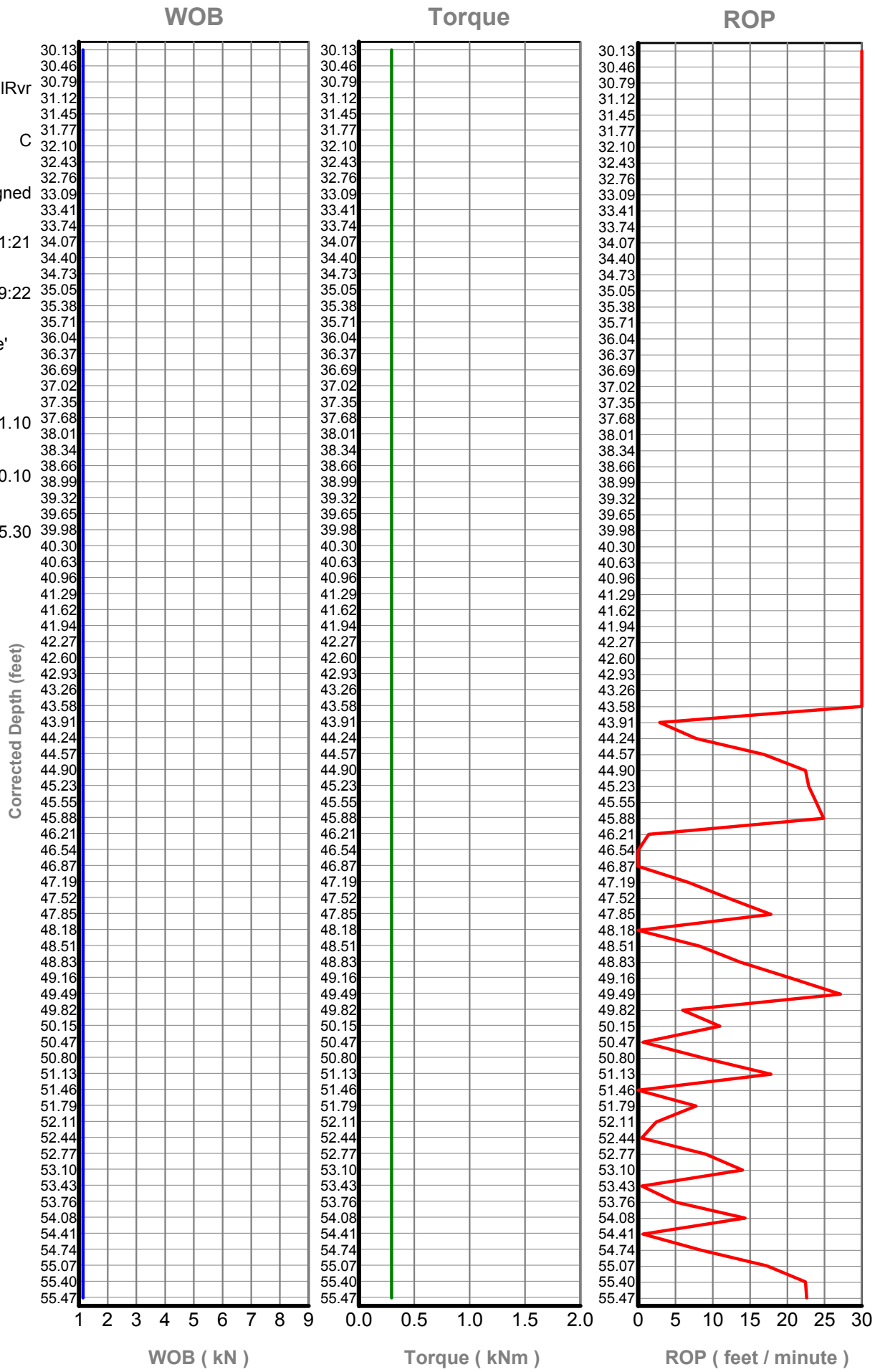
**End Date:**
5/2/2015 13:49:22

**Operator Note:**
'5.3 5.6 c Auto Complete'

**Northing:**
349,811.10

**Easting:**
225,780.10

**Tide (feet):**
5.30



## Hole: P118 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:14:09 | 32.81 | 30.31 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:10 | 33.14 | 30.64 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:10 | 33.46 | 30.96 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 21:14:10 | 33.79 | 31.29 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 21:14:10 | 34.12 | 31.62 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:11 | 34.45 | 31.95 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:11 | 34.78 | 32.28 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 21:14:11 | 35.11 | 32.61 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 21:14:11 | 35.43 | 32.93 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/3/2015 21:14:12 | 35.76 | 33.26 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/3/2015 21:14:12 | 36.09 | 33.59 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 21:14:12 | 36.42 | 33.92 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 21:14:12 | 36.75 | 34.25 | 1,365 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:13 | 37.07 | 34.57 | 1,365 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:13 | 37.40 | 34.90 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:13 | 37.73 | 35.23 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:13 | 38.06 | 35.56 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:14 | 38.39 | 35.89 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:14 | 38.71 | 36.21 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 21:14:14 | 39.04 | 36.54 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:14 | 39.37 | 36.87 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:15 | 39.70 | 37.20 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 21:14:15 | 40.03 | 37.53 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 21:14:15 | 40.35 | 37.85 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:16 | 40.68 | 38.18 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/3/2015 21:14:16 | 41.01 | 38.51 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/3/2015 21:14:16 | 41.34 | 38.84 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/3/2015 21:14:17 | 41.67 | 39.17 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/3/2015 21:14:17 | 41.99 | 39.49 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/3/2015 21:14:17 | 42.32 | 39.82 | 1,384 | 0.54 | 0.17 | 75.7 |
| 5/3/2015 21:14:17 | 42.65 | 40.15 | 1,384 | 0.54 | 0.17 | 75.7 |
| 5/3/2015 21:14:18 | 42.98 | 40.48 | 1,371 | 0.54 | 0.17 | 74.9 |
| 5/3/2015 21:14:18 | 43.31 | 40.81 | 1,371 | 0.54 | 0.17 | 74.9 |
| 5/3/2015 21:14:18 | 43.64 | 41.14 | 1,376 | 0.54 | 0.17 | 75.3 |
| 5/3/2015 21:14:18 | 43.96 | 41.46 | 1,376 | 0.54 | 0.17 | 75.3 |
| 5/3/2015 21:14:18 | 44.29 | 41.79 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/3/2015 21:14:19 | 44.62 | 42.12 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/3/2015 21:14:19 | 44.95 | 42.45 | 1,371 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 21:14:19 | 45.28 | 42.78 | 1,371 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 21:14:20 | 45.60 | 43.10 | 1,382 | 0.54 | 0.17 | 75.6 |
| 5/3/2015 21:14:20 | 45.93 | 43.43 | 1,382 | 0.54 | 0.17 | 75.6 |
| 5/3/2015 21:14:20 | 46.26 | 43.76 | 1,384 | 0.54 | 0.17 | 75.7 |
| 5/3/2015 21:14:20 | 46.59 | 44.09 | 1,384 | 0.54 | 0.17 | 75.7 |
| 5/3/2015 21:14:21 | 46.92 | 44.42 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/3/2015 21:14:21 | 47.24 | 44.74 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/3/2015 21:14:30 | 47.57 | 45.07 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 21:14:31 | 47.90 | 45.40 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 21:14:33 | 48.23 | 45.73 | 220 | 0.54 | 0.17 | 12.0 |
| 5/3/2015 21:14:35 | 48.56 | 46.06 | 193 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 21:14:37 | 48.88 | 46.38 | 164 | 0.54 | 0.17 | 9.0 |
| 5/3/2015 21:14:37 | 49.21 | 46.71 | 193 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 21:14:38 | 49.54 | 47.04 | 244 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 21:14:39 | 49.87 | 47.37 | 353 | 0.54 | 0.17 | 19.3 |
| 5/3/2015 21:14:40 | 50.20 | 47.70 | 504 | 0.54 | 0.17 | 27.6 |
| 5/3/2015 21:14:40 | 50.53 | 48.03 | 591 | 0.54 | 0.17 | 32.3 |
| 5/3/2015 21:14:41 | 50.85 | 48.35 | 654 | 0.54 | 0.17 | 35.8 |
| 5/3/2015 21:14:41 | 51.18 | 48.68 | 687 | 0.54 | 0.17 | 37.6 |
| 5/3/2015 21:14:42 | 51.51 | 49.01 | 704 | 0.54 | 0.17 | 38.5 |
| 5/3/2015 21:14:42 | 51.84 | 49.34 | 689 | 0.54 | 0.17 | 37.7 |
| 5/3/2015 21:14:43 | 52.17 | 49.67 | 698 | 0.54 | 0.17 | 38.2 |
| 5/3/2015 21:14:43 | 52.49 | 49.99 | 680 | 0.54 | 0.17 | 37.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:14:44 | 52.82 | 50.32 | 548 | 0.54 | 0.17 | 30.0 |
| 5/3/2015 21:14:46 | 53.15 | 50.65 | 116 | 0.54 | 0.17 | 6.3 |
| 5/3/2015 21:14:47 | 53.48 | 50.98 | 219 | 0.54 | 0.17 | 12.0 |
| 5/3/2015 21:14:48 | 53.81 | 51.31 | 360 | 0.54 | 0.17 | 19.7 |
| 5/3/2015 21:15:06 | 54.13 | 51.63 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 21:15:22 | 54.46 | 51.96 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 21:15:39 | 54.79 | 52.29 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 21:15:48 | 55.01 | 52.51 | 26 | 0.54 | 0.17 | 1.4 |

## P118 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:05:54

**End Date:**
5/3/2015 21:16:53

**Operator Note:**
'2.5 2.4 a Auto Complete'

**Northing:**
348,707.51

**Easting:**
224,162.41

**Tide (feet):**
2.50



## Hole: P119 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:16:33 | 32.81 | 30.31 | 503 | 0.27 | 0.41 | 27.5 |
| 5/3/2015 21:16:34 | 33.14 | 30.64 | 503 | 0.26 | 0.46 | 27.5 |
| 5/3/2015 21:16:35 | 33.46 | 30.96 | 500 | 0.26 | 0.11 | 27.3 |
| 5/3/2015 21:16:36 | 33.79 | 31.29 | 506 | 0.27 | 0.41 | 27.6 |
| 5/3/2015 21:16:36 | 34.12 | 31.62 | 500 | 0.27 | 0.37 | 27.3 |
| 5/3/2015 21:16:37 | 34.45 | 31.95 | 501 | 0.28 | 0.12 | 27.4 |
| 5/3/2015 21:16:38 | 34.78 | 32.28 | 501 | 0.28 | 0.13 | 27.4 |
| 5/3/2015 21:16:38 | 35.11 | 32.61 | 516 | 0.26 | 0.11 | 28.2 |
| 5/3/2015 21:16:39 | 35.43 | 32.93 | 519 | 0.29 | 0.11 | 28.4 |
| 5/3/2015 21:16:40 | 35.76 | 33.26 | 534 | 0.28 | 0.44 | 29.2 |
| 5/3/2015 21:16:40 | 36.09 | 33.59 | 535 | 0.26 | 0.48 | 29.3 |
| 5/3/2015 21:16:41 | 36.42 | 33.92 | 529 | 0.27 | 0.11 | 28.9 |
| 5/3/2015 21:16:42 | 36.75 | 34.25 | 535 | 0.26 | 0.08 | 29.3 |
| 5/3/2015 21:16:42 | 37.07 | 34.57 | 523 | 0.27 | 0.46 | 28.6 |
| 5/3/2015 21:16:43 | 37.40 | 34.90 | 526 | 0.26 | 0.32 | 28.8 |
| 5/3/2015 21:16:44 | 37.73 | 35.23 | 529 | 0.27 | 0.24 | 29.0 |
| 5/3/2015 21:16:45 | 38.06 | 35.56 | 521 | 0.26 | 0.13 | 28.5 |
| 5/3/2015 21:16:45 | 38.39 | 35.89 | 523 | 0.29 | 0.44 | 28.6 |
| 5/3/2015 21:16:46 | 38.71 | 36.21 | 521 | 0.29 | 0.42 | 28.5 |
| 5/3/2015 21:16:47 | 39.04 | 36.54 | 514 | 0.28 | 0.11 | 28.1 |
| 5/3/2015 21:16:47 | 39.37 | 36.87 | 523 | 0.26 | 0.33 | 28.6 |
| 5/3/2015 21:16:48 | 39.70 | 37.20 | 520 | 0.26 | 0.40 | 28.5 |
| 5/3/2015 21:16:49 | 40.03 | 37.53 | 529 | 0.29 | 0.41 | 28.9 |
| 5/3/2015 21:16:49 | 40.35 | 37.85 | 524 | 0.28 | 0.32 | 28.6 |
| 5/3/2015 21:16:50 | 40.68 | 38.18 | 526 | 0.29 | 0.16 | 28.8 |
| 5/3/2015 21:16:51 | 41.01 | 38.51 | 518 | 0.28 | 0.14 | 28.3 |
| 5/3/2015 21:16:51 | 41.34 | 38.84 | 515 | 0.29 | 0.44 | 28.1 |
| 5/3/2015 21:16:52 | 41.67 | 39.17 | 523 | 0.31 | 0.28 | 28.6 |
| 5/3/2015 21:16:53 | 41.99 | 39.49 | 514 | 0.29 | 0.30 | 28.1 |
| 5/3/2015 21:16:53 | 42.32 | 39.82 | 526 | 0.26 | 0.09 | 28.8 |
| 5/3/2015 21:16:54 | 42.65 | 40.15 | 517 | 0.29 | 0.24 | 28.3 |
| 5/3/2015 21:16:55 | 42.98 | 40.48 | 518 | 0.27 | 0.23 | 28.3 |
| 5/3/2015 21:16:56 | 43.31 | 40.81 | 527 | 0.28 | 0.17 | 28.8 |
| 5/3/2015 21:16:56 | 43.64 | 41.14 | 517 | 0.29 | 0.29 | 28.3 |
| 5/3/2015 21:16:57 | 43.96 | 41.46 | 527 | 0.28 | 0.30 | 28.8 |
| 5/3/2015 21:16:58 | 44.29 | 41.79 | 530 | 0.27 | 0.26 | 29.0 |
| 5/3/2015 21:16:58 | 44.62 | 42.12 | 532 | 0.29 | 0.11 | 29.1 |
| 5/3/2015 21:16:59 | 44.95 | 42.45 | 526 | 0.27 | 0.12 | 28.8 |
| 5/3/2015 21:17:00 | 45.28 | 42.78 | 538 | 0.28 | 0.12 | 29.4 |
| 5/3/2015 21:17:00 | 45.60 | 43.10 | 536 | 0.31 | 0.42 | 29.3 |
| 5/3/2015 21:17:01 | 45.93 | 43.43 | 539 | 0.30 | 0.32 | 29.5 |
| 5/3/2015 21:17:02 | 46.26 | 43.76 | 538 | 0.28 | 0.18 | 29.4 |
| 5/3/2015 21:17:02 | 46.59 | 44.09 | 523 | 0.28 | 0.15 | 28.6 |
| 5/3/2015 21:17:03 | 46.92 | 44.42 | 529 | 0.26 | 0.31 | 28.9 |
| 5/3/2015 21:17:04 | 47.24 | 44.74 | 526 | 0.26 | 0.45 | 28.8 |
| 5/3/2015 21:17:19 | 47.57 | 45.07 | 71 | 2.47 | 0.31 | 3.9 |
| 5/3/2015 21:17:20 | 47.90 | 45.40 | 177 | 3.07 | 0.43 | 9.7 |
| 5/3/2015 21:17:28 | 48.23 | 45.73 | 0 | 2.74 | 0.45 | 0.0 |
| 5/3/2015 21:17:30 | 48.56 | 46.06 | 131 | 3.84 | 0.46 | 7.2 |
| 5/3/2015 21:17:31 | 48.88 | 46.38 | 220 | 2.65 | 0.40 | 12.0 |
| 5/3/2015 21:17:32 | 49.21 | 46.71 | 294 | 2.26 | 0.32 | 16.1 |
| 5/3/2015 21:17:32 | 49.54 | 47.04 | 356 | 2.87 | 0.31 | 19.5 |
| 5/3/2015 21:17:33 | 49.87 | 47.37 | 486 | 2.08 | 0.29 | 26.6 |
| 5/3/2015 21:17:34 | 50.20 | 47.70 | 544 | 2.08 | 0.23 | 29.7 |
| 5/3/2015 21:17:34 | 50.53 | 48.03 | 558 | 2.18 | 0.30 | 30.5 |
| 5/3/2015 21:17:35 | 50.85 | 48.35 | 558 | 2.35 | 0.33 | 30.5 |
| 5/3/2015 21:17:35 | 51.18 | 48.68 | 566 | 1.94 | 0.28 | 31.0 |
| 5/3/2015 21:17:37 | 51.51 | 49.01 | 555 | 2.27 | 0.28 | 30.3 |
| 5/3/2015 21:17:37 | 51.84 | 49.34 | 561 | 2.05 | 0.27 | 30.7 |
| 5/3/2015 21:17:38 | 52.17 | 49.67 | 561 | 1.84 | 0.28 | 30.7 |
| 5/3/2015 21:17:38 | 52.49 | 49.99 | 563 | 1.83 | 0.27 | 30.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:17:39 | 52.82 | 50.32 | 563 | 1.83 | 0.28 | 30.8 |
| 5/3/2015 21:17:40 | 53.15 | 50.65 | 567 | 1.85 | 0.29 | 31.0 |
| 5/3/2015 21:17:40 | 53.48 | 50.98 | 560 | 1.95 | 0.27 | 30.6 |
| 5/3/2015 21:17:41 | 53.81 | 51.31 | 564 | 2.18 | 0.28 | 30.8 |
| 5/3/2015 21:17:41 | 54.13 | 51.63 | 561 | 2.11 | 0.31 | 30.7 |
| 5/3/2015 21:17:42 | 54.46 | 51.96 | 559 | 1.82 | 0.24 | 30.6 |
| 5/3/2015 21:17:43 | 54.79 | 52.29 | 562 | 1.80 | 0.30 | 30.7 |
| 5/3/2015 21:17:43 | 55.12 | 52.62 | 559 | 1.95 | 0.26 | 30.6 |
| 5/3/2015 21:17:44 | 55.45 | 52.95 | 559 | 2.03 | 0.25 | 30.6 |
| 5/3/2015 21:17:45 | 55.77 | 53.27 | 558 | 2.10 | 0.41 | 30.5 |
| 5/3/2015 21:17:45 | 56.10 | 53.60 | 535 | 1.98 | 0.34 | 29.3 |
| 5/3/2015 21:17:46 | 56.43 | 53.93 | 538 | 1.87 | 0.27 | 29.4 |
| 5/3/2015 21:17:46 | 56.76 | 54.26 | 537 | 1.87 | 0.28 | 29.4 |
| 5/3/2015 21:17:48 | 57.09 | 54.59 | 536 | 1.84 | 0.27 | 29.3 |
| 5/3/2015 21:17:48 | 57.41 | 54.91 | 539 | 1.87 | 0.30 | 29.5 |
| 5/3/2015 21:17:49 | 57.62 | 55.12 | 561 | 2.07 | 0.32 | 30.7 |

## P119 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 21:14:21

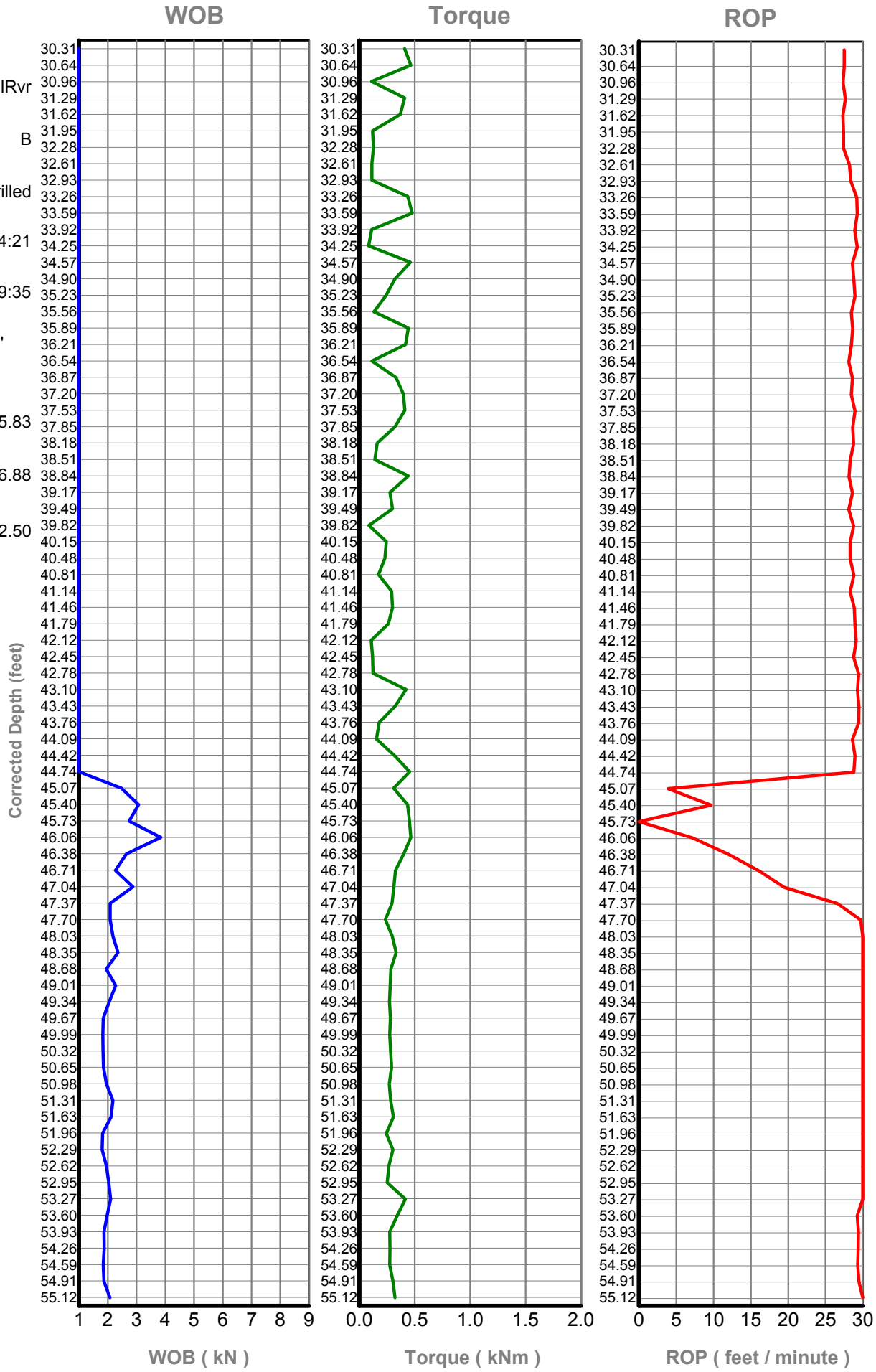
**End Date:**
5/3/2015 21:19:35

**Operator Note:**
'2.5 2.4b Auto Complete'

**Northing:**
348,745.83

**Easting:**
224,226.88

**Tide (feet):**
2.50



## Hole: P12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:57:40 | 34.12 | 30.22 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:57:40 | 34.45 | 30.55 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/2/2015 14:57:40 | 34.78 | 30.88 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/2/2015 14:57:40 | 35.11 | 31.21 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:57:41 | 35.43 | 31.53 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:57:41 | 35.76 | 31.86 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:57:41 | 36.09 | 32.19 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 14:57:42 | 36.42 | 32.52 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 14:57:42 | 36.75 | 32.85 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 14:57:43 | 37.07 | 33.17 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 14:57:43 | 37.40 | 33.50 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 14:57:43 | 37.73 | 33.83 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 14:57:44 | 38.06 | 34.16 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 14:57:44 | 38.39 | 34.49 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:57:44 | 38.71 | 34.81 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:57:44 | 39.04 | 35.14 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 14:57:45 | 39.37 | 35.47 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:57:45 | 39.70 | 35.80 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:57:45 | 40.03 | 36.13 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:57:46 | 40.35 | 36.45 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 14:58:05 | 40.68 | 36.78 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:58:08 | 41.01 | 37.11 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 14:58:09 | 41.34 | 37.44 | 218 | 1.14 | 0.29 | 11.9 |
| 5/2/2015 14:58:09 | 41.67 | 37.77 | 318 | 1.14 | 0.29 | 17.4 |
| 5/2/2015 14:58:18 | 41.99 | 38.09 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:58:19 | 42.32 | 38.42 | 111 | 1.14 | 0.29 | 6.1 |
| 5/2/2015 14:58:20 | 42.65 | 38.75 | 200 | 1.14 | 0.29 | 10.9 |
| 5/2/2015 14:58:21 | 42.98 | 39.08 | 294 | 1.14 | 0.29 | 16.1 |
| 5/2/2015 14:58:21 | 43.31 | 39.41 | 394 | 1.14 | 0.29 | 21.5 |
| 5/2/2015 14:58:22 | 43.64 | 39.74 | 457 | 1.14 | 0.29 | 25.0 |
| 5/2/2015 14:58:45 | 43.96 | 40.06 | 62 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 14:58:46 | 44.29 | 40.39 | 166 | 1.14 | 0.29 | 9.1 |
| 5/2/2015 14:58:47 | 44.62 | 40.72 | 297 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 14:58:48 | 44.95 | 41.05 | 294 | 1.14 | 0.29 | 16.1 |
| 5/2/2015 14:58:49 | 45.28 | 41.38 | 358 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 14:58:49 | 45.60 | 41.70 | 385 | 1.14 | 0.29 | 21.1 |
| 5/2/2015 14:59:12 | 45.93 | 42.03 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:59:13 | 46.26 | 42.36 | 42 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 14:59:14 | 46.59 | 42.69 | 224 | 1.14 | 0.29 | 12.3 |
| 5/2/2015 14:59:15 | 46.92 | 43.02 | 380 | 1.14 | 0.29 | 20.8 |
| 5/2/2015 14:59:16 | 47.24 | 43.34 | 423 | 1.14 | 0.29 | 23.1 |
| 5/2/2015 14:59:17 | 47.57 | 43.67 | 424 | 1.14 | 0.29 | 23.2 |
| 5/2/2015 14:59:18 | 47.90 | 44.00 | 432 | 1.14 | 0.29 | 23.6 |
| 5/2/2015 15:02:38 | 48.23 | 44.33 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 15:02:47 | 48.56 | 44.66 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 15:02:48 | 48.88 | 44.98 | 91 | 1.14 | 0.29 | 5.0 |
| 5/2/2015 15:02:49 | 49.21 | 45.31 | 231 | 1.14 | 0.29 | 12.6 |
| 5/2/2015 15:02:51 | 49.54 | 45.64 | 253 | 1.14 | 0.29 | 13.8 |
| 5/2/2015 15:03:17 | 49.87 | 45.97 | 69 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 15:03:25 | 50.20 | 46.30 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 15:03:34 | 50.53 | 46.63 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 15:03:45 | 50.85 | 46.95 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 15:03:55 | 51.18 | 47.28 | 33 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 15:04:02 | 51.42 | 47.52 | 38 | 1.14 | 0.29 | 2.1 |

## P12 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:56:42

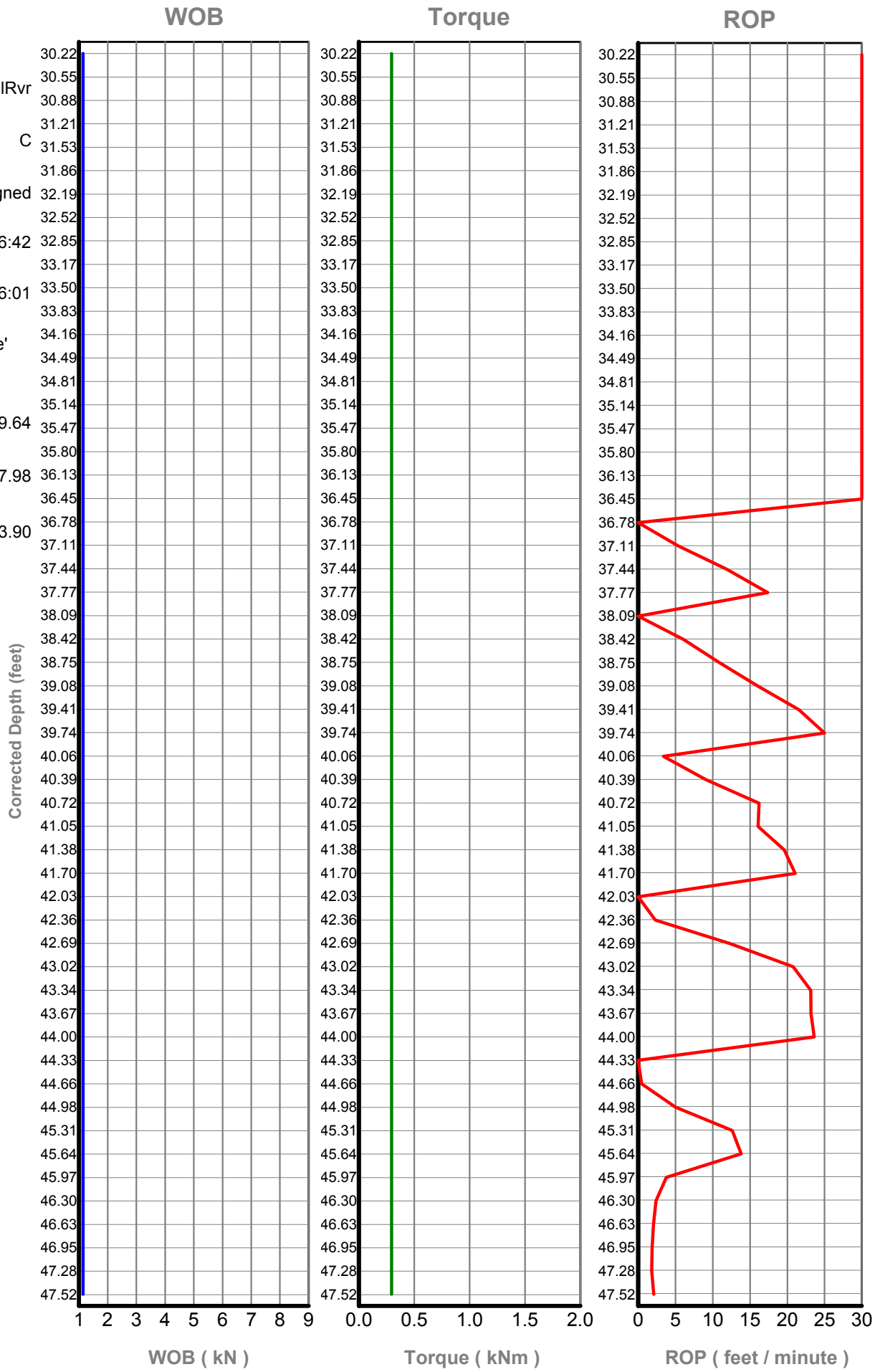
**End Date:**
5/2/2015 15:06:01

**Operator Note:**
'3.9 4.1 c Auto Complete'

**Northing:**
349,949.64

**Easting:**
225,427.98

**Tide (feet):**
3.90



## Hole: P120 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:13:34 | 32.81 | 30.31 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 21:13:34 | 33.14 | 30.64 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 21:13:34 | 33.46 | 30.96 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:13:35 | 33.79 | 31.29 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:13:35 | 34.12 | 31.62 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 21:13:35 | 34.45 | 31.95 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 21:13:36 | 34.78 | 32.28 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 21:13:36 | 35.11 | 32.61 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 21:13:36 | 35.43 | 32.93 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 21:13:37 | 35.76 | 33.26 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 21:13:37 | 36.09 | 33.59 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:37 | 36.42 | 33.92 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:37 | 36.75 | 34.25 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:38 | 37.07 | 34.57 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:13:38 | 37.40 | 34.90 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:13:38 | 37.73 | 35.23 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:13:39 | 38.06 | 35.56 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:13:39 | 38.39 | 35.89 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:13:39 | 38.71 | 36.21 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:40 | 39.04 | 36.54 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:40 | 39.37 | 36.87 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:41 | 39.70 | 37.20 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:13:41 | 40.03 | 37.53 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:13:41 | 40.35 | 37.85 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:13:42 | 40.68 | 38.18 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:13:42 | 41.01 | 38.51 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:13:42 | 41.34 | 38.84 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:43 | 41.67 | 39.17 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:43 | 41.99 | 39.49 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:43 | 42.32 | 39.82 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:13:44 | 42.65 | 40.15 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:13:44 | 42.98 | 40.48 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:13:44 | 43.31 | 40.81 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:13:45 | 43.64 | 41.14 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:13:45 | 43.96 | 41.46 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:13:45 | 44.29 | 41.79 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:13:46 | 44.62 | 42.12 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:13:46 | 44.95 | 42.45 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:13:46 | 45.28 | 42.78 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:13:46 | 45.60 | 43.10 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:13:47 | 45.93 | 43.43 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:13:47 | 46.26 | 43.76 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:13:56 | 46.59 | 44.09 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 21:13:57 | 46.92 | 44.42 | 163 | 1.14 | 0.29 | 8.9 |
| 5/3/2015 21:13:57 | 47.24 | 44.74 | 240 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 21:13:58 | 47.57 | 45.07 | 369 | 1.14 | 0.29 | 20.2 |
| 5/3/2015 21:14:13 | 47.90 | 45.40 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:14:14 | 48.23 | 45.73 | 189 | 1.14 | 0.29 | 10.3 |
| 5/3/2015 21:14:14 | 48.56 | 46.06 | 315 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 21:14:15 | 48.88 | 46.38 | 315 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 21:14:33 | 49.21 | 46.71 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:14:36 | 49.54 | 47.04 | 31 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 21:14:36 | 49.87 | 47.37 | 96 | 1.14 | 0.29 | 5.2 |
| 5/3/2015 21:14:37 | 50.20 | 47.70 | 227 | 1.14 | 0.29 | 12.4 |
| 5/3/2015 21:14:37 | 50.53 | 48.03 | 345 | 1.14 | 0.29 | 18.8 |
| 5/3/2015 21:14:45 | 50.85 | 48.35 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 21:14:46 | 51.18 | 48.68 | 246 | 1.14 | 0.29 | 13.5 |
| 5/3/2015 21:14:47 | 51.51 | 49.01 | 381 | 1.14 | 0.29 | 20.8 |
| 5/3/2015 21:14:47 | 51.84 | 49.34 | 381 | 1.14 | 0.29 | 20.8 |
| 5/3/2015 21:14:51 | 52.17 | 49.67 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:14:59 | 52.49 | 49.99 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:15:00 | 52.82 | 50.32 | 150 | 1.14 | 0.29 | 8.2 |
| 5/3/2015 21:15:00 | 53.15 | 50.65 | 307 | 1.14 | 0.29 | 16.8 |
| 5/3/2015 21:15:01 | 53.48 | 50.98 | 461 | 1.14 | 0.29 | 25.2 |
| 5/3/2015 21:15:01 | 53.81 | 51.31 | 592 | 1.14 | 0.29 | 32.4 |
| 5/3/2015 21:15:02 | 54.13 | 51.63 | 706 | 1.14 | 0.29 | 38.6 |
| 5/3/2015 21:15:03 | 54.46 | 51.96 | 607 | 1.14 | 0.29 | 33.2 |
| 5/3/2015 21:15:04 | 54.79 | 52.29 | 583 | 1.14 | 0.29 | 31.9 |
| 5/3/2015 21:15:04 | 55.12 | 52.62 | 581 | 1.14 | 0.29 | 31.8 |
| 5/3/2015 21:15:05 | 55.45 | 52.95 | 533 | 1.14 | 0.29 | 29.2 |
| 5/3/2015 21:15:06 | 55.77 | 53.27 | 516 | 1.14 | 0.29 | 28.2 |
| 5/3/2015 21:15:08 | 56.10 | 53.60 | 203 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 21:15:10 | 56.43 | 53.93 | 112 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 21:15:12 | 56.76 | 54.26 | 219 | 1.14 | 0.29 | 12.0 |
| 5/3/2015 21:15:12 | 57.09 | 54.59 | 281 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 21:15:15 | 57.41 | 54.91 | 188 | 1.14 | 0.29 | 10.3 |
| 5/3/2015 21:15:16 | 57.67 | 55.17 | 240 | 1.14 | 0.29 | 13.1 |

## P120 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:12:39

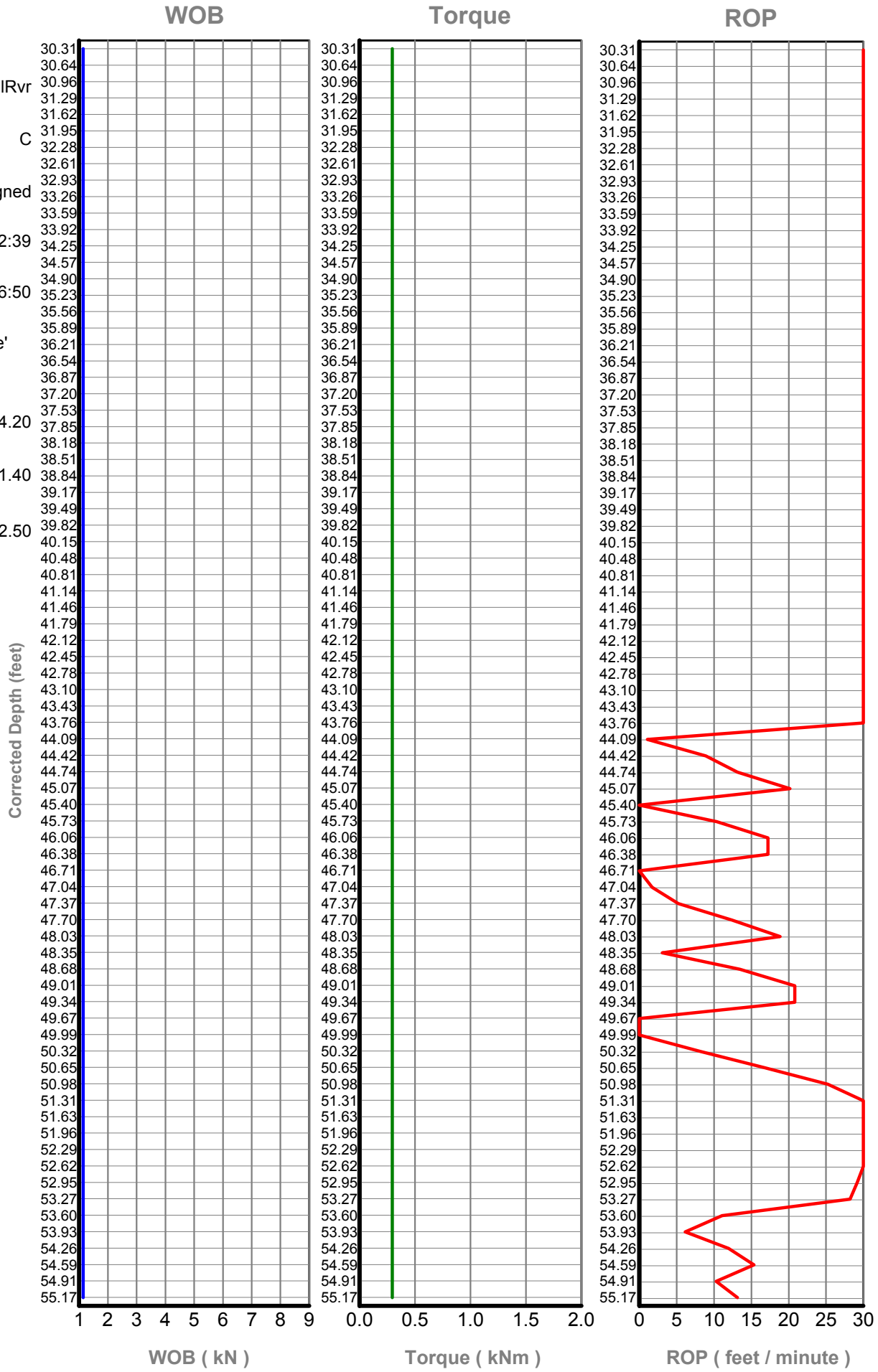
**End Date:**
5/3/2015 21:16:50

**Operator Note:**
'2.5 2.4 c Auto Complete'

**Northing:**
348,784.20

**Easting:**
224,291.40

**Tide (feet):**
2.50



## Hole: P121 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:50:38 | 32.48 | 30.08 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:39 | 32.81 | 30.41 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:39 | 33.14 | 30.74 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:39 | 33.46 | 31.06 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 16:50:40 | 33.79 | 31.39 | 890 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 16:50:40 | 34.12 | 31.72 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 16:50:41 | 34.45 | 32.05 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 16:50:41 | 34.78 | 32.38 | 890 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 16:50:41 | 35.11 | 32.71 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 16:50:42 | 35.43 | 33.03 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 16:50:42 | 35.76 | 33.36 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:43 | 36.09 | 33.69 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:43 | 36.42 | 34.02 | 889 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 16:50:43 | 36.75 | 34.35 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:44 | 37.07 | 34.67 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:44 | 37.40 | 35.00 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:44 | 37.73 | 35.33 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:45 | 38.06 | 35.66 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 16:50:45 | 38.39 | 35.99 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 16:50:46 | 38.71 | 36.31 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 16:50:46 | 39.04 | 36.64 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 16:50:46 | 39.37 | 36.97 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 16:50:47 | 39.70 | 37.30 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:48 | 40.03 | 37.63 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:48 | 40.35 | 37.95 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:48 | 40.68 | 38.28 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 16:50:49 | 41.01 | 38.61 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:49 | 41.34 | 38.94 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:50 | 41.67 | 39.27 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:50 | 41.99 | 39.59 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 16:50:50 | 42.32 | 39.92 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:51 | 42.65 | 40.25 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:51 | 42.98 | 40.58 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:52 | 43.31 | 40.91 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:52 | 43.64 | 41.24 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:52 | 43.96 | 41.56 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:53 | 44.29 | 41.89 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:53 | 44.62 | 42.22 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:54 | 44.95 | 42.55 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:54 | 45.28 | 42.88 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:54 | 45.60 | 43.20 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 16:50:55 | 45.93 | 43.53 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:55 | 46.26 | 43.86 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 16:50:56 | 46.59 | 44.19 | 829 | 0.54 | 0.17 | 45.3 |
| 5/3/2015 16:51:12 | 46.92 | 44.52 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 16:51:12 | 47.24 | 44.84 | 107 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 16:51:13 | 47.57 | 45.17 | 331 | 0.54 | 0.17 | 18.1 |
| 5/3/2015 16:51:14 | 47.90 | 45.50 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 16:51:15 | 48.23 | 45.83 | 361 | 0.54 | 0.17 | 19.8 |
| 5/3/2015 16:51:16 | 48.56 | 46.16 | 368 | 0.54 | 0.17 | 20.1 |
| 5/3/2015 16:51:17 | 48.88 | 46.48 | 421 | 0.54 | 0.17 | 23.0 |
| 5/3/2015 16:51:19 | 49.21 | 46.81 | 268 | 0.54 | 0.17 | 14.7 |
| 5/3/2015 16:51:20 | 49.54 | 47.14 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 16:51:21 | 49.87 | 47.47 | 270 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 16:51:23 | 50.20 | 47.80 | 270 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 16:51:25 | 50.53 | 48.13 | 154 | 0.54 | 0.17 | 8.4 |
| 5/3/2015 16:51:27 | 50.85 | 48.45 | 229 | 0.54 | 0.17 | 12.5 |
| 5/3/2015 16:51:28 | 51.18 | 48.78 | 198 | 0.54 | 0.17 | 10.8 |
| 5/3/2015 16:51:30 | 51.51 | 49.11 | 234 | 0.54 | 0.17 | 12.8 |
| 5/3/2015 16:51:33 | 51.84 | 49.44 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 16:51:37 | 52.17 | 49.77 | 90 | 0.54 | 0.17 | 4.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 16:51:42 | 52.49 | 50.09 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 16:51:45 | 52.82 | 50.42 | 123 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 | 16:51:49 | 53.15 | 50.75 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 | 16:51:52 | 53.48 | 51.08 | 109 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 | 16:51:56 | 53.81 | 51.41 | 74 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 16:52:02 | 54.13 | 51.73 | 56 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 16:52:08 | 54.46 | 52.06 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 16:52:12 | 54.79 | 52.39 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 16:52:17 | 55.12 | 52.72 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 | 16:52:21 | 55.45 | 53.05 | 78 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 16:52:28 | 55.77 | 53.37 | 57 | 0.54 | 0.17 | 3.1 |
| 5/3/2015 | 16:52:34 | 56.10 | 53.70 | 60 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 | 16:52:41 | 56.43 | 54.03 | 47 | 0.54 | 0.17 | 2.6 |
| 5/3/2015 | 16:52:49 | 56.76 | 54.36 | 52 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 16:52:53 | 57.09 | 54.69 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 16:52:58 | 57.41 | 55.01 | 94 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 16:52:59 | 57.45 | 55.05 | 90 | 0.54 | 0.17 | 4.9 |

## P121 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:49:15

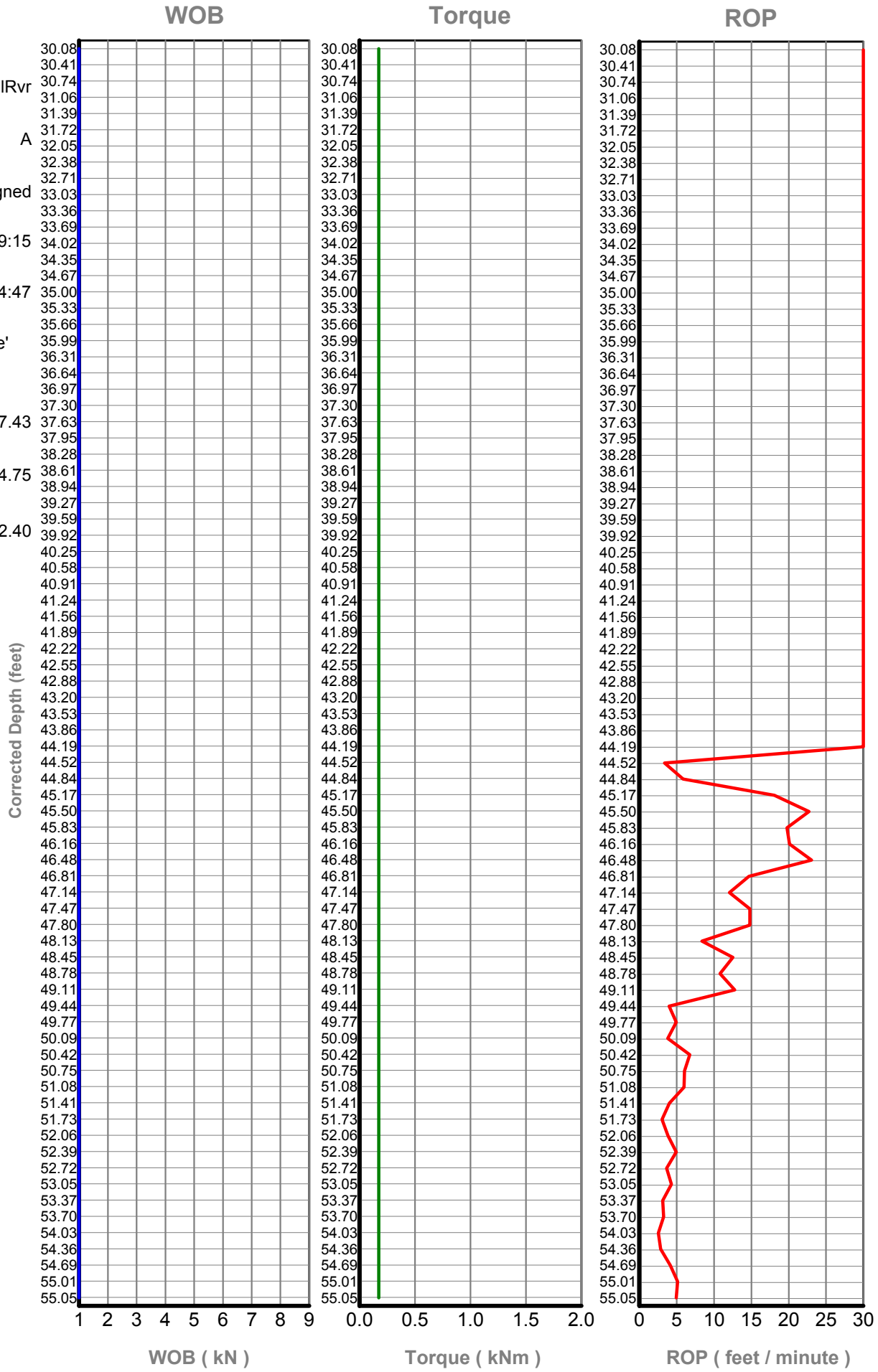
**End Date:**
5/3/2015 16:54:47

**Operator Note:**
'2.4 2.5 a Auto Complete'

**Northing:**
348,827.43

**Easting:**
224,354.75

**Tide (feet):**
2.40



## Hole: P122 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:50:43 | 32.48 | 30.08 | 1,364 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 16:50:44 | 32.81 | 30.41 | 1,364 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 16:50:44 | 33.14 | 30.74 | 1,359 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 16:50:45 | 33.46 | 31.06 | 1,359 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 16:50:44 | 33.79 | 31.39 | 1,348 | 0.26 | 0.38 | 73.7 |
| 5/3/2015 16:50:45 | 34.12 | 31.72 | 1,348 | 0.26 | 0.38 | 73.7 |
| 5/3/2015 16:50:45 | 34.45 | 32.05 | 1,367 | 0.25 | 0.37 | 74.8 |
| 5/3/2015 16:50:46 | 34.78 | 32.38 | 1,356 | 0.25 | 0.39 | 74.1 |
| 5/3/2015 16:50:46 | 35.11 | 32.71 | 1,356 | 0.25 | 0.39 | 74.1 |
| 5/3/2015 16:50:46 | 35.43 | 33.03 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/3/2015 16:50:47 | 35.76 | 33.36 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/3/2015 16:50:47 | 36.09 | 33.69 | 1,356 | 0.25 | 0.38 | 74.1 |
| 5/3/2015 16:50:47 | 36.42 | 34.02 | 1,356 | 0.25 | 0.38 | 74.1 |
| 5/3/2015 16:50:47 | 36.75 | 34.35 | 1,361 | 0.25 | 0.40 | 74.4 |
| 5/3/2015 16:50:48 | 37.07 | 34.67 | 1,361 | 0.25 | 0.40 | 74.4 |
| 5/3/2015 16:50:48 | 37.40 | 35.00 | 1,313 | 0.25 | 0.39 | 71.8 |
| 5/3/2015 16:50:48 | 37.73 | 35.33 | 1,313 | 0.25 | 0.39 | 71.8 |
| 5/3/2015 16:50:48 | 38.06 | 35.66 | 1,313 | 0.24 | 0.38 | 71.8 |
| 5/3/2015 16:50:49 | 38.39 | 35.99 | 1,313 | 0.24 | 0.38 | 71.8 |
| 5/3/2015 16:50:48 | 38.71 | 36.31 | 1,344 | 0.25 | 0.37 | 73.5 |
| 5/3/2015 16:50:49 | 39.04 | 36.64 | 1,344 | 0.25 | 0.37 | 73.5 |
| 5/3/2015 16:50:49 | 39.37 | 36.97 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 16:50:50 | 39.70 | 37.30 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 16:50:50 | 40.03 | 37.63 | 1,335 | 0.24 | 0.37 | 73.0 |
| 5/3/2015 16:50:50 | 40.35 | 37.95 | 1,335 | 0.24 | 0.37 | 73.0 |
| 5/3/2015 16:50:50 | 40.68 | 38.28 | 1,344 | 0.25 | 0.39 | 73.5 |
| 5/3/2015 16:50:51 | 41.01 | 38.61 | 1,344 | 0.25 | 0.39 | 73.5 |
| 5/3/2015 16:50:51 | 41.34 | 38.94 | 1,375 | 0.26 | 0.40 | 75.2 |
| 5/3/2015 16:50:51 | 41.67 | 39.27 | 1,375 | 0.26 | 0.40 | 75.2 |
| 5/3/2015 16:50:51 | 41.99 | 39.59 | 1,340 | 0.25 | 0.37 | 73.3 |
| 5/3/2015 16:50:52 | 42.32 | 39.92 | 1,340 | 0.25 | 0.37 | 73.3 |
| 5/3/2015 16:50:52 | 42.65 | 40.25 | 1,340 | 0.24 | 0.37 | 73.3 |
| 5/3/2015 16:50:52 | 42.98 | 40.58 | 1,340 | 0.24 | 0.37 | 73.3 |
| 5/3/2015 16:50:52 | 43.31 | 40.91 | 1,361 | 0.24 | 0.40 | 74.4 |
| 5/3/2015 16:50:53 | 43.64 | 41.24 | 1,361 | 0.24 | 0.40 | 74.4 |
| 5/3/2015 16:50:53 | 43.96 | 41.56 | 1,358 | 0.25 | 0.40 | 74.3 |
| 5/3/2015 16:50:53 | 44.29 | 41.89 | 1,358 | 0.25 | 0.40 | 74.3 |
| 5/3/2015 16:50:53 | 44.62 | 42.22 | 1,347 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 16:50:54 | 44.95 | 42.55 | 1,347 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 16:50:54 | 45.28 | 42.88 | 1,355 | 0.26 | 0.35 | 74.1 |
| 5/3/2015 16:50:55 | 45.60 | 43.20 | 1,355 | 0.26 | 0.35 | 74.1 |
| 5/3/2015 16:50:55 | 45.93 | 43.53 | 1,365 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 16:50:55 | 46.26 | 43.86 | 1,365 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 16:50:55 | 46.59 | 44.19 | 1,353 | 0.24 | 0.37 | 74.0 |
| 5/3/2015 16:50:56 | 46.92 | 44.52 | 1,353 | 0.24 | 0.37 | 74.0 |
| 5/3/2015 16:50:56 | 47.24 | 44.84 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/3/2015 16:50:56 | 47.57 | 45.17 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/3/2015 16:50:56 | 47.90 | 45.50 | 1,344 | 0.23 | 0.47 | 73.5 |
| 5/3/2015 16:51:24 | 48.23 | 45.83 | 0 | 2.50 | 0.45 | 0.0 |
| 5/3/2015 16:51:28 | 48.56 | 46.16 | 92 | 2.42 | 0.49 | 5.1 |
| 5/3/2015 16:51:34 | 48.88 | 46.48 | 58 | 2.62 | 0.49 | 3.2 |
| 5/3/2015 16:51:38 | 49.21 | 46.81 | 104 | 2.87 | 0.49 | 5.7 |
| 5/3/2015 16:51:42 | 49.54 | 47.14 | 87 | 2.86 | 0.48 | 4.8 |
| 5/3/2015 16:51:48 | 49.87 | 47.47 | 64 | 2.83 | 0.48 | 3.5 |
| 5/3/2015 16:51:53 | 50.20 | 47.80 | 69 | 2.80 | 0.48 | 3.8 |
| 5/3/2015 16:52:19 | 50.53 | 48.13 | 32 | 2.89 | 0.48 | 1.7 |
| 5/3/2015 16:52:24 | 50.85 | 48.45 | 69 | 2.64 | 0.48 | 3.8 |
| 5/3/2015 16:52:29 | 51.18 | 48.78 | 64 | 2.80 | 0.48 | 3.5 |
| 5/3/2015 16:52:35 | 51.51 | 49.11 | 55 | 2.74 | 0.48 | 3.0 |
| 5/3/2015 16:52:40 | 51.84 | 49.44 | 72 | 2.86 | 0.49 | 4.0 |
| 5/3/2015 16:52:45 | 52.17 | 49.77 | 81 | 2.62 | 0.49 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 16:52:49 | 52.49 | 50.09 | 99 | 2.84 | 0.48 | 5.4 |
| 5/3/2015 | 16:52:53 | 52.82 | 50.42 | 90 | 2.88 | 0.49 | 4.9 |
| 5/3/2015 | 16:52:57 | 53.15 | 50.75 | 84 | 2.88 | 0.48 | 4.6 |
| 5/3/2015 | 16:53:01 | 53.48 | 51.08 | 87 | 2.86 | 0.48 | 4.8 |
| 5/3/2015 | 16:53:05 | 53.81 | 51.41 | 77 | 2.74 | 0.48 | 4.2 |
| 5/3/2015 | 16:53:10 | 54.13 | 51.73 | 72 | 2.75 | 0.48 | 4.0 |
| 5/3/2015 | 16:53:16 | 54.46 | 52.06 | 57 | 2.98 | 0.48 | 3.1 |
| 5/3/2015 | 16:53:20 | 54.79 | 52.39 | 95 | 3.43 | 0.48 | 5.2 |
| 5/3/2015 | 16:53:24 | 55.12 | 52.72 | 98 | 3.02 | 0.49 | 5.4 |
| 5/3/2015 | 16:53:46 | 55.45 | 53.05 | 65 | 4.79 | 0.46 | 3.5 |
| 5/3/2015 | 16:55:59 | 55.77 | 53.37 | 15 | 3.65 | 0.48 | 0.8 |
| 5/3/2015 | 16:56:03 | 56.10 | 53.70 | 69 | 3.25 | 0.48 | 3.8 |
| 5/3/2015 | 16:56:06 | 56.43 | 54.03 | 119 | 2.89 | 0.48 | 6.5 |
| 5/3/2015 | 16:56:10 | 56.76 | 54.36 | 109 | 3.26 | 0.48 | 6.0 |
| 5/3/2015 | 16:56:13 | 57.09 | 54.69 | 139 | 2.51 | 0.48 | 7.6 |
| 5/3/2015 | 16:56:22 | 57.41 | 55.01 | 32 | 2.40 | 0.49 | 1.7 |
| 5/3/2015 | 16:56:24 | 57.48 | 55.08 | 32 | 2.46 | 0.48 | 1.7 |

## P122 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:48:51

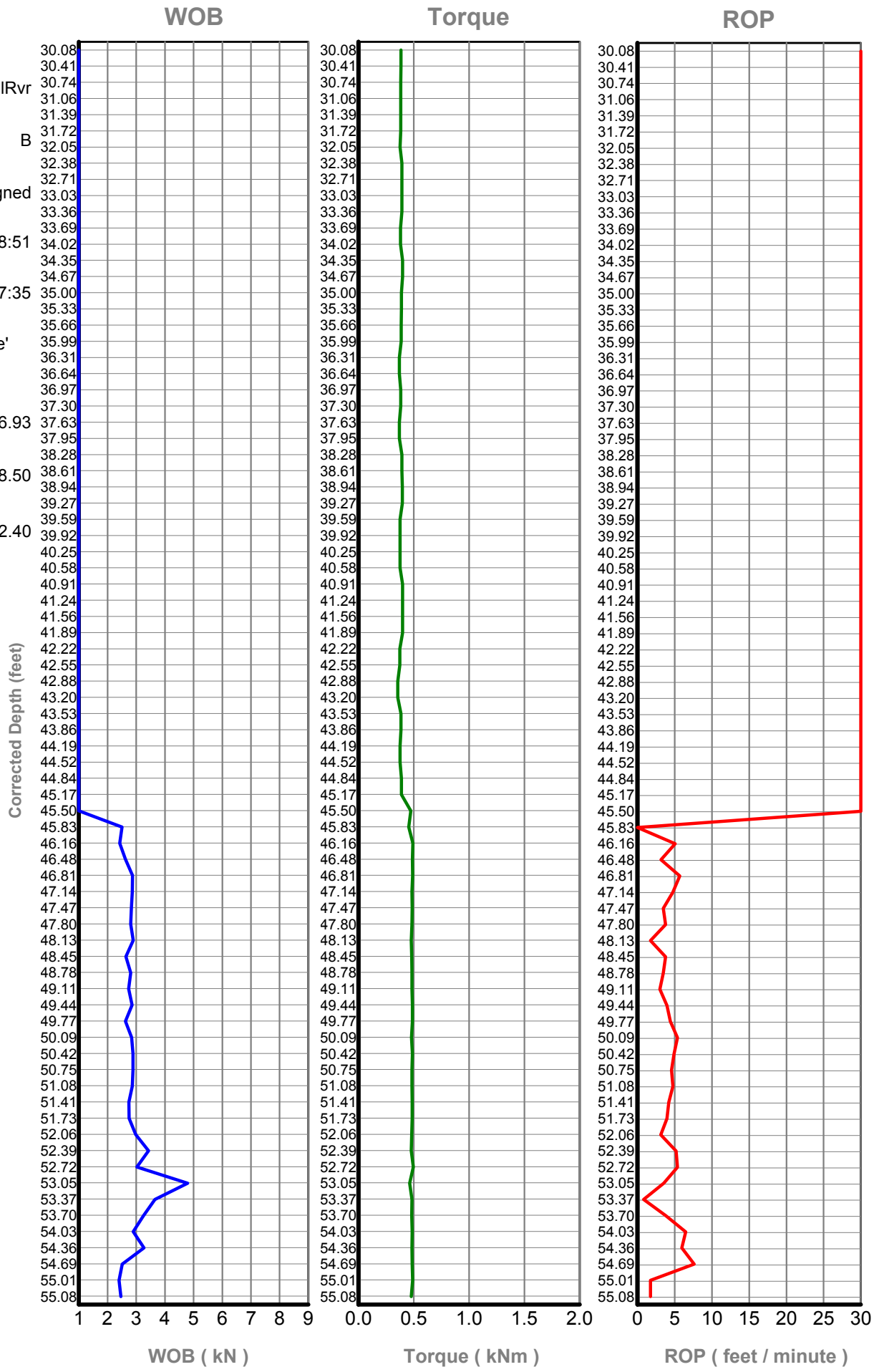
**End Date:**
5/3/2015 16:57:35

**Operator Note:**
'2.4 2.5 b Auto Complete'

**Northing:**
348,866.93

**Easting:**
224,418.50

**Tide (feet):**
2.40



## Hole: P123 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:50:13 | 32.48 | 30.08 | 1,242 | 1.14 | 0.29 | 67.9 |
| 5/3/2015 16:50:13 | 32.81 | 30.41 | 1,238 | 1.14 | 0.29 | 67.7 |
| 5/3/2015 16:50:14 | 33.14 | 30.74 | 1,213 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:14 | 33.46 | 31.06 | 1,213 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:14 | 33.79 | 31.39 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 16:50:15 | 34.12 | 31.72 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 16:50:15 | 34.45 | 32.05 | 1,226 | 1.14 | 0.29 | 67.1 |
| 5/3/2015 16:50:16 | 34.78 | 32.38 | 1,226 | 1.14 | 0.29 | 67.1 |
| 5/3/2015 16:50:16 | 35.11 | 32.71 | 1,207 | 1.14 | 0.29 | 66.0 |
| 5/3/2015 16:50:16 | 35.43 | 33.03 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 16:50:16 | 35.76 | 33.36 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 16:50:17 | 36.09 | 33.69 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 16:50:17 | 36.42 | 34.02 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 16:50:17 | 36.75 | 34.35 | 1,233 | 1.14 | 0.29 | 67.4 |
| 5/3/2015 16:50:18 | 37.07 | 34.67 | 1,233 | 1.14 | 0.29 | 67.4 |
| 5/3/2015 16:50:18 | 37.40 | 35.00 | 1,204 | 1.14 | 0.29 | 65.9 |
| 5/3/2015 16:50:18 | 37.73 | 35.33 | 1,204 | 1.14 | 0.29 | 65.9 |
| 5/3/2015 16:50:19 | 38.06 | 35.66 | 1,204 | 1.14 | 0.29 | 65.9 |
| 5/3/2015 16:50:19 | 38.39 | 35.99 | 1,203 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 16:50:19 | 38.71 | 36.31 | 1,203 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 16:50:19 | 39.04 | 36.64 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:20 | 39.37 | 36.97 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:20 | 39.70 | 37.30 | 1,209 | 1.14 | 0.29 | 66.1 |
| 5/3/2015 16:50:20 | 40.03 | 37.63 | 1,209 | 1.14 | 0.29 | 66.1 |
| 5/3/2015 16:50:20 | 40.35 | 37.95 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:21 | 40.68 | 38.28 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:21 | 41.01 | 38.61 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:21 | 41.34 | 38.94 | 1,214 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:22 | 41.67 | 39.27 | 1,214 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:22 | 41.99 | 39.59 | 1,200 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 16:50:22 | 42.32 | 39.92 | 1,200 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 16:50:22 | 42.65 | 40.25 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:23 | 42.98 | 40.58 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:23 | 43.31 | 40.91 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 16:50:23 | 43.64 | 41.24 | 1,214 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:24 | 43.96 | 41.56 | 1,214 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 16:50:24 | 44.29 | 41.89 | 1,225 | 1.14 | 0.29 | 67.0 |
| 5/3/2015 16:50:24 | 44.62 | 42.22 | 1,225 | 1.14 | 0.29 | 67.0 |
| 5/3/2015 16:50:24 | 44.95 | 42.55 | 1,219 | 1.14 | 0.29 | 66.7 |
| 5/3/2015 16:50:25 | 45.28 | 42.88 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:25 | 45.60 | 43.20 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:25 | 45.93 | 43.53 | 1,230 | 1.14 | 0.29 | 67.3 |
| 5/3/2015 16:50:26 | 46.26 | 43.86 | 1,230 | 1.14 | 0.29 | 67.3 |
| 5/3/2015 16:50:26 | 46.59 | 44.19 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:27 | 46.92 | 44.52 | 1,216 | 1.14 | 0.29 | 66.5 |
| 5/3/2015 16:50:42 | 47.24 | 44.84 | 77 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 16:50:43 | 47.57 | 45.17 | 232 | 1.14 | 0.29 | 12.7 |
| 5/3/2015 16:50:45 | 47.90 | 45.50 | 213 | 1.14 | 0.29 | 11.7 |
| 5/3/2015 16:50:48 | 48.23 | 45.83 | 117 | 1.14 | 0.29 | 6.4 |
| 5/3/2015 16:50:58 | 48.56 | 46.16 | 24 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 16:51:08 | 48.88 | 46.48 | 48 | 1.14 | 0.29 | 2.6 |
| 5/3/2015 16:51:11 | 49.21 | 46.81 | 114 | 1.14 | 0.29 | 6.3 |
| 5/3/2015 16:51:16 | 49.54 | 47.14 | 69 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 16:51:21 | 49.87 | 47.47 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 16:51:27 | 50.20 | 47.80 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 16:51:33 | 50.53 | 48.13 | 69 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 16:51:40 | 50.85 | 48.45 | 50 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 16:51:42 | 51.00 | 48.60 | 52 | 1.14 | 0.29 | 2.9 |

## P123 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:49:00

**End Date:**
5/3/2015 16:53:40

**Operator Note:**
'2.4 2.6 c Auto Complete'

**Northing:**
348,906.40

**Easting:**
224,482.30

**Tide (feet):**
2.40



## Hole: P124 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:04:44 | 35.43 | 30.23 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 14:04:44 | 35.76 | 30.56 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 14:04:44 | 36.09 | 30.89 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:45 | 36.42 | 31.22 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:45 | 36.75 | 31.55 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:45 | 37.07 | 31.87 | 952 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 14:04:46 | 37.40 | 32.20 | 946 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 14:04:46 | 37.73 | 32.53 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 14:04:47 | 38.06 | 32.86 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 14:04:47 | 38.39 | 33.19 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 14:04:47 | 38.71 | 33.51 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:48 | 39.04 | 33.84 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:48 | 39.37 | 34.17 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 14:04:48 | 39.70 | 34.50 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:49 | 40.03 | 34.83 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:49 | 40.35 | 35.15 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 14:04:49 | 40.68 | 35.48 | 954 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 14:04:50 | 41.01 | 35.81 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 14:04:50 | 41.34 | 36.14 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:51 | 41.67 | 36.47 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:51 | 41.99 | 36.79 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:52 | 42.32 | 37.12 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 14:04:52 | 42.65 | 37.45 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 14:04:52 | 42.98 | 37.78 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 14:04:53 | 43.31 | 38.11 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 14:04:53 | 43.64 | 38.44 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 14:04:54 | 43.96 | 38.76 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 14:04:54 | 44.29 | 39.09 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 14:04:54 | 44.62 | 39.42 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:55 | 44.95 | 39.75 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:55 | 45.28 | 40.08 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:55 | 45.60 | 40.40 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:56 | 45.93 | 40.73 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 14:04:56 | 46.26 | 41.06 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 14:04:57 | 46.59 | 41.39 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 14:04:57 | 46.92 | 41.72 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 14:04:57 | 47.24 | 42.04 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 14:04:58 | 47.57 | 42.37 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 14:04:58 | 47.90 | 42.70 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 14:04:58 | 48.23 | 43.03 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 14:04:59 | 48.56 | 43.36 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 14:04:59 | 48.88 | 43.68 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 14:04:59 | 49.21 | 44.01 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 14:05:00 | 49.54 | 44.34 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 14:05:00 | 49.87 | 44.67 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 14:05:01 | 50.20 | 45.00 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 14:05:01 | 50.53 | 45.33 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 14:05:10 | 50.85 | 45.65 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 14:05:11 | 51.18 | 45.98 | 232 | 0.54 | 0.17 | 12.7 |
| 5/3/2015 14:05:14 | 51.51 | 46.31 | 76 | 0.54 | 0.17 | 4.2 |
| 5/3/2015 14:05:18 | 51.84 | 46.64 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 14:05:23 | 52.17 | 46.97 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 14:05:29 | 52.49 | 47.29 | 106 | 0.54 | 0.17 | 5.8 |
| 5/3/2015 14:05:31 | 52.82 | 47.62 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 14:05:34 | 53.15 | 47.95 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 14:05:38 | 53.48 | 48.28 | 98 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 14:05:41 | 53.81 | 48.61 | 116 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 14:05:44 | 54.13 | 48.93 | 128 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 14:05:47 | 54.46 | 49.26 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 14:05:52 | 54.79 | 49.59 | 72 | 0.54 | 0.17 | 3.9 |
| 5/3/2015 14:05:55 | 55.12 | 49.92 | 113 | 0.54 | 0.17 | 6.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 14:05:59 | 55.45 | 50.25 | 61 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 14:06:05 | 55.77 | 50.57 | 52 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 14:06:11 | 56.10 | 50.90 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 14:06:17 | 56.43 | 51.23 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 14:06:29 | 56.76 | 51.56 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 14:06:42 | 57.09 | 51.89 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 14:06:56 | 57.41 | 52.21 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 14:07:05 | 57.59 | 52.39 | 17 | 0.54 | 0.17 | 1.0 |

## P124 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:03:16

**End Date:**
5/3/2015 14:09:46

**Operator Note:**
'5.2 5.6 a Auto Complete'

**Northing:**
348,948.58

**Easting:**
224,551.91

**Tide (feet):**
5.20



## Hole: P125 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:04:47 | 35.43 | 30.23 | 1,350 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 14:04:48 | 35.76 | 30.56 | 1,350 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 14:04:48 | 36.09 | 30.89 | 1,358 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 14:04:49 | 36.42 | 31.22 | 1,358 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 14:04:49 | 36.75 | 31.55 | 1,364 | 0.25 | 0.38 | 74.6 |
| 5/3/2015 14:04:49 | 37.07 | 31.87 | 1,364 | 0.25 | 0.38 | 74.6 |
| 5/3/2015 14:04:49 | 37.40 | 32.20 | 1,359 | 0.26 | 0.38 | 74.3 |
| 5/3/2015 14:04:49 | 37.73 | 32.53 | 1,359 | 0.26 | 0.38 | 74.3 |
| 5/3/2015 14:04:50 | 38.06 | 32.86 | 1,346 | 0.26 | 0.37 | 73.6 |
| 5/3/2015 14:04:50 | 38.39 | 33.19 | 1,346 | 0.26 | 0.37 | 73.6 |
| 5/3/2015 14:04:50 | 38.71 | 33.51 | 1,374 | 0.26 | 0.37 | 75.2 |
| 5/3/2015 14:04:51 | 39.04 | 33.84 | 1,374 | 0.26 | 0.37 | 75.2 |
| 5/3/2015 14:04:51 | 39.37 | 34.17 | 1,366 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 14:04:51 | 39.70 | 34.50 | 1,366 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 14:04:51 | 40.03 | 34.83 | 1,369 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:51 | 40.35 | 35.15 | 1,369 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:52 | 40.68 | 35.48 | 1,367 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:52 | 41.01 | 35.81 | 1,367 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:52 | 41.34 | 36.14 | 1,391 | 0.26 | 0.39 | 76.1 |
| 5/3/2015 14:04:53 | 41.67 | 36.47 | 1,391 | 0.26 | 0.39 | 76.1 |
| 5/3/2015 14:04:53 | 41.99 | 36.79 | 1,366 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 14:04:53 | 42.32 | 37.12 | 1,366 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 14:04:53 | 42.65 | 37.45 | 1,380 | 0.26 | 0.37 | 75.4 |
| 5/3/2015 14:04:54 | 42.98 | 37.78 | 1,380 | 0.26 | 0.37 | 75.4 |
| 5/3/2015 14:04:54 | 43.31 | 38.11 | 1,360 | 0.26 | 0.37 | 74.4 |
| 5/3/2015 14:04:54 | 43.64 | 38.44 | 1,360 | 0.26 | 0.37 | 74.4 |
| 5/3/2015 14:04:55 | 43.96 | 38.76 | 1,379 | 0.26 | 0.40 | 75.4 |
| 5/3/2015 14:04:55 | 44.29 | 39.09 | 1,379 | 0.26 | 0.40 | 75.4 |
| 5/3/2015 14:04:55 | 44.62 | 39.42 | 1,368 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:56 | 44.95 | 39.75 | 1,368 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:55 | 45.28 | 40.08 | 1,368 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:56 | 45.60 | 40.40 | 1,368 | 0.26 | 0.39 | 74.8 |
| 5/3/2015 14:04:56 | 45.93 | 40.73 | 1,360 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 14:04:56 | 46.26 | 41.06 | 1,360 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 14:04:57 | 46.59 | 41.39 | 1,382 | 0.26 | 0.38 | 75.6 |
| 5/3/2015 14:04:57 | 46.92 | 41.72 | 1,382 | 0.26 | 0.38 | 75.6 |
| 5/3/2015 14:04:57 | 47.24 | 42.04 | 1,367 | 0.26 | 0.38 | 74.8 |
| 5/3/2015 14:04:58 | 47.57 | 42.37 | 1,367 | 0.26 | 0.38 | 74.8 |
| 5/3/2015 14:04:58 | 47.90 | 42.70 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:58 | 48.23 | 43.03 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:58 | 48.56 | 43.36 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:58 | 48.88 | 43.68 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:59 | 49.21 | 44.01 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:59 | 49.54 | 44.34 | 1,367 | 0.26 | 0.37 | 74.8 |
| 5/3/2015 14:04:59 | 49.87 | 44.67 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:05:00 | 50.20 | 45.00 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:05:00 | 50.53 | 45.33 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:05:00 | 50.85 | 45.65 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:05:00 | 51.18 | 45.98 | 1,353 | 0.23 | 0.46 | 74.0 |
| 5/3/2015 14:05:11 | 51.51 | 46.31 | 77 | 3.85 | 0.46 | 4.2 |
| 5/3/2015 14:05:12 | 51.84 | 46.64 | 123 | 2.65 | 0.47 | 6.7 |
| 5/3/2015 14:05:14 | 52.17 | 46.97 | 288 | 3.69 | 0.48 | 15.7 |
| 5/3/2015 14:05:23 | 52.49 | 47.29 | 102 | 4.95 | 0.48 | 5.6 |
| 5/3/2015 14:05:41 | 52.82 | 47.62 | 71 | 2.65 | 0.48 | 3.9 |
| 5/3/2015 14:05:48 | 53.15 | 47.95 | 90 | 2.78 | 0.47 | 4.9 |
| 5/3/2015 14:05:52 | 53.48 | 48.28 | 87 | 2.78 | 0.48 | 4.7 |
| 5/3/2015 14:05:58 | 53.81 | 48.61 | 64 | 3.80 | 0.48 | 3.5 |
| 5/3/2015 14:06:04 | 54.13 | 48.93 | 61 | 4.76 | 0.48 | 3.3 |
| 5/3/2015 14:06:10 | 54.46 | 49.26 | 63 | 3.22 | 0.48 | 3.5 |
| 5/3/2015 14:06:15 | 54.79 | 49.59 | 78 | 3.22 | 0.48 | 4.3 |
| 5/3/2015 14:06:26 | 54.86 | 49.66 | 0 | 2.97 | 0.48 | 0.0 |

## P125 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:03:04

**End Date:**
5/3/2015 14:08:05

**Operator Note:**
'5.2 5.6 b Auto Complete'

**Northing:**
348,990.10

**Easting:**
224,614.37

**Tide (feet):**
5.20



## Hole: P126 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:04:11 | 35.43 | 30.23 | 1,197 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 14:04:10 | 35.76 | 30.56 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 14:04:11 | 36.09 | 30.89 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 14:04:11 | 36.42 | 31.22 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 14:04:12 | 36.75 | 31.55 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 14:04:12 | 37.07 | 31.87 | 1,200 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 14:04:12 | 37.40 | 32.20 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:13 | 37.73 | 32.53 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:13 | 38.06 | 32.86 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:04:13 | 38.39 | 33.19 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:04:13 | 38.71 | 33.51 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:04:14 | 39.04 | 33.84 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:04:14 | 39.37 | 34.17 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 14:04:14 | 39.70 | 34.50 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:15 | 40.03 | 34.83 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:15 | 40.35 | 35.15 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:15 | 40.68 | 35.48 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:15 | 41.01 | 35.81 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 14:04:16 | 41.34 | 36.14 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 14:04:16 | 41.67 | 36.47 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 14:04:16 | 41.99 | 36.79 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 14:04:17 | 42.32 | 37.12 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 14:04:17 | 42.65 | 37.45 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 14:04:17 | 42.98 | 37.78 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 14:04:17 | 43.31 | 38.11 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:18 | 43.64 | 38.44 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:18 | 43.96 | 38.76 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 14:04:18 | 44.29 | 39.09 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:04:19 | 44.62 | 39.42 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:04:19 | 44.95 | 39.75 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 14:04:19 | 45.28 | 40.08 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:20 | 45.60 | 40.40 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:20 | 45.93 | 40.73 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 14:04:20 | 46.26 | 41.06 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 14:04:20 | 46.59 | 41.39 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:21 | 46.92 | 41.72 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 14:04:21 | 47.24 | 42.04 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 14:04:21 | 47.57 | 42.37 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:04:22 | 47.90 | 42.70 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:04:22 | 48.23 | 43.03 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 14:04:23 | 48.56 | 43.36 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 14:04:22 | 48.88 | 43.68 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:04:23 | 49.21 | 44.01 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:04:24 | 49.54 | 44.34 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:04:37 | 49.87 | 44.67 | 83 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 14:04:38 | 50.20 | 45.00 | 115 | 1.14 | 0.29 | 6.3 |
| 5/3/2015 14:04:39 | 50.53 | 45.33 | 282 | 1.14 | 0.29 | 15.4 |
| 5/3/2015 14:04:39 | 50.85 | 45.65 | 358 | 1.14 | 0.29 | 19.6 |
| 5/3/2015 14:04:40 | 51.18 | 45.98 | 364 | 1.14 | 0.29 | 19.9 |
| 5/3/2015 14:04:41 | 51.51 | 46.31 | 403 | 1.14 | 0.29 | 22.0 |
| 5/3/2015 14:04:42 | 51.84 | 46.64 | 432 | 1.14 | 0.29 | 23.6 |
| 5/3/2015 14:05:11 | 52.17 | 46.97 | 52 | 1.14 | 0.29 | 2.8 |
| 5/3/2015 14:05:12 | 52.49 | 47.29 | 234 | 1.14 | 0.29 | 12.8 |
| 5/3/2015 14:05:12 | 52.82 | 47.62 | 343 | 1.14 | 0.29 | 18.7 |
| 5/3/2015 14:05:19 | 53.15 | 47.95 | 51 | 1.14 | 0.29 | 2.8 |
| 5/3/2015 14:05:20 | 53.48 | 48.28 | 169 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 14:05:23 | 53.81 | 48.61 | 193 | 1.14 | 0.29 | 10.6 |
| 5/3/2015 14:06:22 | 54.13 | 48.93 | 12 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 14:06:29 | 54.46 | 49.26 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 14:08:05 | 54.79 | 49.59 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 14:08:14 | 55.12 | 49.92 | 33 | 1.14 | 0.29 | 1.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 14:08:23 | 55.45 | 50.25 | 50 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 14:08:29 | 55.77 | 50.57 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 14:08:34 | 56.07 | 50.87 | 79 | 1.14 | 0.29 | 4.3 |

## P126 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:03:05

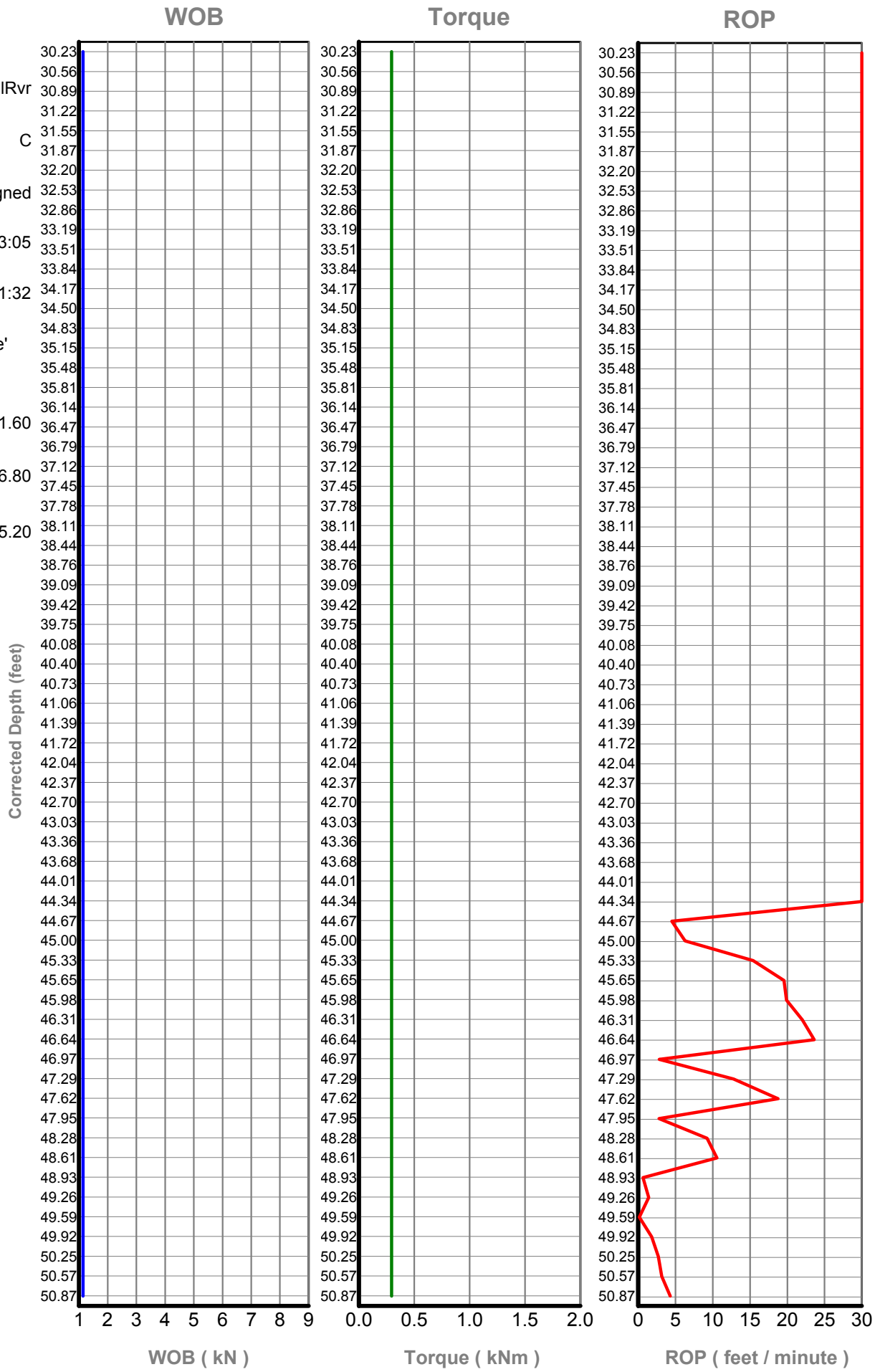
**End Date:**
5/3/2015 14:11:32

**Operator Note:**
'5.2 5.6 c Auto Complete'

**Northing:**
349,031.60

**Easting:**
224,676.80

**Tide (feet):**
5.20



## Hole: P127 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:16:50 | 34.45 | 30.05 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:50 | 34.78 | 30.38 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:51 | 35.11 | 30.71 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:51 | 35.43 | 31.03 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:52 | 35.76 | 31.36 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:52 | 36.09 | 31.69 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:52 | 36.42 | 32.02 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:16:53 | 36.75 | 32.35 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:16:53 | 37.07 | 32.67 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:16:54 | 37.40 | 33.00 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:16:54 | 37.73 | 33.33 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:54 | 38.06 | 33.66 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:55 | 38.39 | 33.99 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:55 | 38.71 | 34.31 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:16:55 | 39.04 | 34.64 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:16:56 | 39.37 | 34.97 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:56 | 39.70 | 35.30 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:56 | 40.03 | 35.63 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 10:16:57 | 40.35 | 35.95 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:57 | 40.68 | 36.28 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:57 | 41.01 | 36.61 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:16:58 | 41.34 | 36.94 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 10:16:58 | 41.67 | 37.27 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 10:16:59 | 41.99 | 37.59 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 10:16:59 | 42.32 | 37.92 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:16:59 | 42.65 | 38.25 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:17:00 | 42.98 | 38.58 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:17:00 | 43.31 | 38.91 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:17:00 | 43.64 | 39.24 | 946 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:17:01 | 43.96 | 39.56 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:17:01 | 44.29 | 39.89 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:17:01 | 44.62 | 40.22 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 10:17:02 | 44.95 | 40.55 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:17:03 | 45.28 | 40.88 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 10:17:03 | 45.60 | 41.20 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 10:17:03 | 45.93 | 41.53 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 10:17:04 | 46.26 | 41.86 | 952 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:17:04 | 46.59 | 42.19 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 10:17:05 | 46.92 | 42.52 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 10:17:05 | 47.24 | 42.84 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 10:17:05 | 47.57 | 43.17 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:17:06 | 47.90 | 43.50 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 10:17:06 | 48.23 | 43.83 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:17:06 | 48.56 | 44.16 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 10:17:07 | 48.88 | 44.48 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:17:07 | 49.21 | 44.81 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 10:17:22 | 49.54 | 45.14 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 10:17:32 | 49.87 | 45.47 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 10:17:40 | 50.20 | 45.80 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 10:17:47 | 50.53 | 46.13 | 60 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 10:17:53 | 50.85 | 46.45 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 10:18:07 | 51.18 | 46.78 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 10:18:22 | 51.51 | 47.11 | 22 | 0.54 | 0.17 | 1.2 |
| 5/3/2015 10:18:37 | 51.84 | 47.44 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 10:18:52 | 52.17 | 47.77 | 26 | 0.54 | 0.17 | 1.4 |

## P127 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:15:22

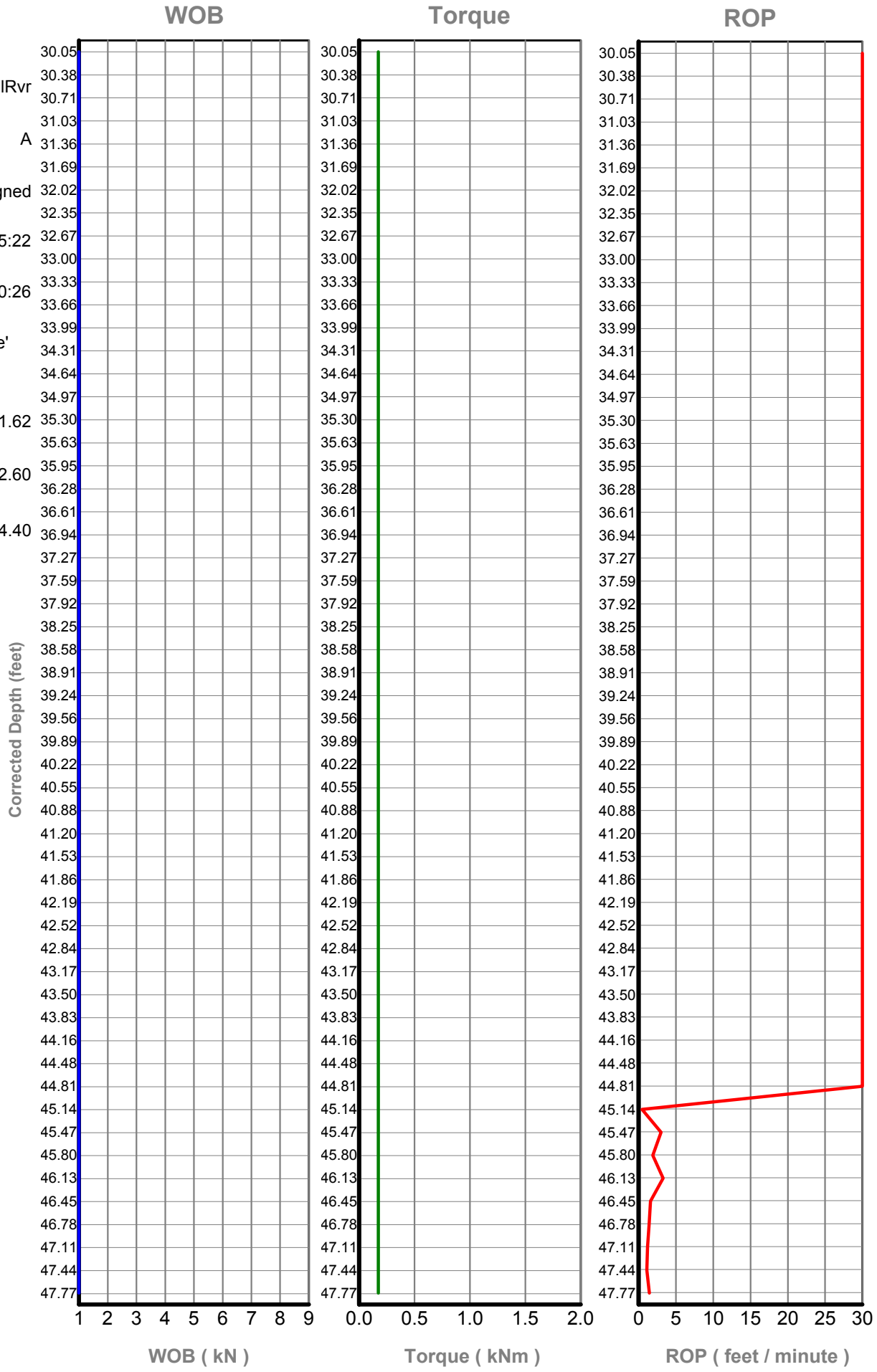
**End Date:**
5/3/2015 10:20:26

**Operator Note:**
'4.4 4.2 a Auto Complete'

**Northing:**
349,071.62

**Easting:**
224,742.60

**Tide (feet):**
4.40



## Hole: P128 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:16:33 | 34.45 | 30.25 | 1,279 | 0.28 | 0.38 | 69.9 |
| 5/3/2015 10:16:33 | 34.78 | 30.58 | 1,279 | 0.28 | 0.38 | 69.9 |
| 5/3/2015 10:16:33 | 35.11 | 30.91 | 1,287 | 0.28 | 0.39 | 70.4 |
| 5/3/2015 10:16:34 | 35.43 | 31.23 | 1,278 | 0.28 | 0.39 | 69.9 |
| 5/3/2015 10:16:34 | 35.76 | 31.56 | 1,278 | 0.28 | 0.39 | 69.9 |
| 5/3/2015 10:16:34 | 36.09 | 31.89 | 1,278 | 0.28 | 0.36 | 69.9 |
| 5/3/2015 10:16:35 | 36.42 | 32.22 | 1,278 | 0.28 | 0.36 | 69.9 |
| 5/3/2015 10:16:35 | 36.75 | 32.55 | 1,288 | 0.27 | 0.37 | 70.5 |
| 5/3/2015 10:16:35 | 37.07 | 32.87 | 1,288 | 0.27 | 0.37 | 70.5 |
| 5/3/2015 10:16:35 | 37.40 | 33.20 | 1,279 | 0.14 | 0.33 | 70.0 |
| 5/3/2015 10:16:36 | 37.73 | 33.53 | 1,279 | 0.14 | 0.33 | 70.0 |
| 5/3/2015 10:16:36 | 38.06 | 33.86 | 1,257 | 0.28 | 0.37 | 68.7 |
| 5/3/2015 10:16:36 | 38.39 | 34.19 | 1,257 | 0.28 | 0.37 | 68.7 |
| 5/3/2015 10:16:36 | 38.71 | 34.51 | 1,257 | 0.28 | 0.34 | 68.7 |
| 5/3/2015 10:16:37 | 39.04 | 34.84 | 1,257 | 0.28 | 0.34 | 68.7 |
| 5/3/2015 10:16:37 | 39.37 | 35.17 | 1,267 | 0.29 | 0.37 | 69.3 |
| 5/3/2015 10:16:37 | 39.70 | 35.50 | 1,267 | 0.29 | 0.37 | 69.3 |
| 5/3/2015 10:16:38 | 40.03 | 35.83 | 1,280 | 0.29 | 0.36 | 70.0 |
| 5/3/2015 10:16:38 | 40.35 | 36.15 | 1,257 | 0.29 | 0.35 | 68.7 |
| 5/3/2015 10:16:38 | 40.68 | 36.48 | 1,257 | 0.29 | 0.35 | 68.7 |
| 5/3/2015 10:16:38 | 41.01 | 36.81 | 1,257 | 0.29 | 0.38 | 68.7 |
| 5/3/2015 10:16:39 | 41.34 | 37.14 | 1,257 | 0.29 | 0.38 | 68.7 |
| 5/3/2015 10:16:39 | 41.67 | 37.47 | 1,282 | 0.30 | 0.38 | 70.1 |
| 5/3/2015 10:16:40 | 41.99 | 37.79 | 1,282 | 0.30 | 0.38 | 70.1 |
| 5/3/2015 10:16:40 | 42.32 | 38.12 | 1,299 | 0.29 | 0.37 | 71.0 |
| 5/3/2015 10:16:40 | 42.65 | 38.45 | 1,299 | 0.29 | 0.37 | 71.0 |
| 5/3/2015 10:16:40 | 42.98 | 38.78 | 1,276 | 0.29 | 0.39 | 69.8 |
| 5/3/2015 10:16:41 | 43.31 | 39.11 | 1,276 | 0.29 | 0.39 | 69.8 |
| 5/3/2015 10:16:41 | 43.64 | 39.44 | 1,276 | 0.29 | 0.37 | 69.8 |
| 5/3/2015 10:16:41 | 43.96 | 39.76 | 1,276 | 0.29 | 0.37 | 69.8 |
| 5/3/2015 10:16:41 | 44.29 | 40.09 | 1,256 | 0.29 | 0.34 | 68.7 |
| 5/3/2015 10:16:42 | 44.62 | 40.42 | 1,256 | 0.29 | 0.34 | 68.7 |
| 5/3/2015 10:16:42 | 44.95 | 40.75 | 1,296 | 0.33 | 0.39 | 70.8 |
| 5/3/2015 10:16:42 | 45.28 | 41.08 | 1,273 | 0.29 | 0.38 | 69.6 |
| 5/3/2015 10:16:43 | 45.60 | 41.40 | 1,273 | 0.29 | 0.38 | 69.6 |
| 5/3/2015 10:16:43 | 45.93 | 41.73 | 1,253 | 0.29 | 0.38 | 68.5 |
| 5/3/2015 10:16:43 | 46.26 | 42.06 | 1,253 | 0.29 | 0.38 | 68.5 |
| 5/3/2015 10:16:43 | 46.59 | 42.39 | 1,253 | 0.29 | 0.39 | 68.5 |
| 5/3/2015 10:16:44 | 46.92 | 42.72 | 1,253 | 0.29 | 0.39 | 68.5 |
| 5/3/2015 10:16:44 | 47.24 | 43.04 | 1,285 | 0.29 | 0.38 | 70.3 |
| 5/3/2015 10:16:44 | 47.57 | 43.37 | 1,285 | 0.29 | 0.38 | 70.3 |
| 5/3/2015 10:16:44 | 47.90 | 43.70 | 1,288 | 0.29 | 0.38 | 70.4 |
| 5/3/2015 10:16:45 | 48.23 | 44.03 | 1,288 | 0.29 | 0.38 | 70.4 |
| 5/3/2015 10:16:45 | 48.56 | 44.36 | 1,255 | 0.29 | 0.39 | 68.6 |
| 5/3/2015 10:16:45 | 48.88 | 44.68 | 1,255 | 0.29 | 0.39 | 68.6 |
| 5/3/2015 10:16:45 | 49.21 | 45.01 | 1,271 | 0.29 | 0.37 | 69.5 |
| 5/3/2015 10:16:46 | 49.54 | 45.34 | 1,272 | 0.16 | 0.47 | 69.6 |
| 5/3/2015 10:16:54 | 49.87 | 45.67 | 64 | 3.15 | 0.50 | 3.5 |
| 5/3/2015 10:16:56 | 50.20 | 46.00 | 142 | 7.36 | 0.49 | 7.7 |
| 5/3/2015 10:16:57 | 50.53 | 46.33 | 209 | 2.72 | 0.46 | 11.4 |
| 5/3/2015 10:17:02 | 50.85 | 46.65 | 29 | 4.15 | 0.47 | 1.6 |
| 5/3/2015 10:17:04 | 51.18 | 46.98 | 159 | 4.33 | 0.47 | 8.7 |
| 5/3/2015 10:17:13 | 51.51 | 47.31 | 35 | 3.52 | 0.49 | 1.9 |
| 5/3/2015 10:17:18 | 51.84 | 47.64 | 76 | 3.54 | 0.47 | 4.2 |
| 5/3/2015 10:17:20 | 52.17 | 47.97 | 158 | 3.49 | 0.47 | 8.7 |
| 5/3/2015 10:17:22 | 52.49 | 48.29 | 196 | 3.83 | 0.48 | 10.7 |
| 5/3/2015 10:17:30 | 52.82 | 48.62 | 32 | 2.78 | 0.48 | 1.7 |
| 5/3/2015 10:17:41 | 53.15 | 48.95 | 35 | 2.89 | 0.48 | 1.9 |
| 5/3/2015 10:17:52 | 53.48 | 49.28 | 29 | 2.71 | 0.48 | 1.6 |
| 5/3/2015 10:18:00 | 53.74 | 49.54 | 32 | 2.86 | 0.47 | 1.7 |

## P128 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:13:45

**End Date:**
5/3/2015 10:19:09

**Operator Note:**
'4.2 4.2 b Rock'

**Northing:**
349,113.00

**Easting:**
224,804.90

**Tide (feet):**
4.20



## Hole: P129 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:15:44 | 34.45 | 30.25 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 10:15:44 | 34.78 | 30.58 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 10:15:45 | 35.11 | 30.91 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 10:15:45 | 35.43 | 31.23 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 10:15:45 | 35.76 | 31.56 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:46 | 36.09 | 31.89 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:46 | 36.42 | 32.22 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 10:15:46 | 36.75 | 32.55 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 10:15:47 | 37.07 | 32.87 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 10:15:47 | 37.40 | 33.20 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 10:15:47 | 37.73 | 33.53 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 10:15:47 | 38.06 | 33.86 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:48 | 38.39 | 34.19 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 10:15:48 | 38.71 | 34.51 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 10:15:48 | 39.04 | 34.84 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 10:15:49 | 39.37 | 35.17 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 10:15:49 | 39.70 | 35.50 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 10:15:49 | 40.03 | 35.83 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:50 | 40.35 | 36.15 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 10:15:50 | 40.68 | 36.48 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 10:15:50 | 41.01 | 36.81 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 10:15:51 | 41.34 | 37.14 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:52 | 41.67 | 37.47 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:52 | 41.99 | 37.79 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:52 | 42.32 | 38.12 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:53 | 42.65 | 38.45 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:53 | 42.98 | 38.78 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:53 | 43.31 | 39.11 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:54 | 43.64 | 39.44 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:54 | 43.96 | 39.76 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:54 | 44.29 | 40.09 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 10:15:54 | 44.62 | 40.42 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 10:15:55 | 44.95 | 40.75 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:55 | 45.28 | 41.08 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:55 | 45.60 | 41.40 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 10:15:56 | 45.93 | 41.73 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 10:15:56 | 46.26 | 42.06 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 10:15:56 | 46.59 | 42.39 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:57 | 46.92 | 42.72 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:57 | 47.24 | 43.04 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 10:15:57 | 47.57 | 43.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 10:15:58 | 47.90 | 43.70 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 10:16:13 | 48.23 | 44.03 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 10:16:14 | 48.56 | 44.36 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 10:16:15 | 48.88 | 44.68 | 210 | 1.14 | 0.29 | 11.5 |
| 5/3/2015 10:16:16 | 49.21 | 45.01 | 425 | 1.14 | 0.29 | 23.2 |
| 5/3/2015 10:16:17 | 49.54 | 45.34 | 502 | 1.14 | 0.29 | 27.4 |
| 5/3/2015 10:16:17 | 49.87 | 45.67 | 585 | 1.14 | 0.29 | 32.0 |
| 5/3/2015 10:16:18 | 50.20 | 46.00 | 588 | 1.14 | 0.29 | 32.1 |
| 5/3/2015 10:17:01 | 50.53 | 46.33 | 24 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 10:17:02 | 50.85 | 46.65 | 163 | 1.14 | 0.29 | 8.9 |
| 5/3/2015 10:17:40 | 51.18 | 46.98 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 10:17:43 | 51.51 | 47.31 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 10:17:51 | 51.84 | 47.64 | 67 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 10:18:06 | 52.17 | 47.97 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 10:18:22 | 52.49 | 48.29 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 10:18:40 | 52.82 | 48.62 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 10:18:57 | 53.15 | 48.95 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 10:19:04 | 53.31 | 49.11 | 26 | 1.14 | 0.29 | 1.4 |

## P129 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:14:08

**End Date:**
5/3/2015 10:21:14

**Operator Note:**
'4.2 4.2 c Auto Complete'

**Northing:**
349,154.10

**Easting:**
224,866.90

**Tide (feet):**
4.20



## Hole: P13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:42:23 | 34.12 | 30.02 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 14:42:23 | 34.45 | 30.35 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 14:42:24 | 34.78 | 30.68 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 14:42:24 | 35.11 | 31.01 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 14:42:24 | 35.43 | 31.33 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 14:42:25 | 35.76 | 31.66 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 14:42:25 | 36.09 | 31.99 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:25 | 36.42 | 32.32 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:26 | 36.75 | 32.65 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 14:42:26 | 37.07 | 32.97 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 14:42:26 | 37.40 | 33.30 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:27 | 37.73 | 33.63 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 14:42:27 | 38.06 | 33.96 | 966 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 14:42:27 | 38.39 | 34.29 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 14:42:28 | 38.71 | 34.61 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 14:42:28 | 39.04 | 34.94 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:29 | 39.37 | 35.27 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:29 | 39.70 | 35.60 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:30 | 40.03 | 35.93 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:30 | 40.35 | 36.25 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 14:42:30 | 40.68 | 36.58 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 14:42:31 | 41.01 | 36.91 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 14:42:31 | 41.34 | 37.24 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 14:42:32 | 41.67 | 37.57 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 14:42:38 | 41.99 | 37.89 | 9 | 0.54 | 0.17 | 0.5 |
| 5/2/2015 14:42:40 | 42.32 | 38.22 | 161 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 14:42:45 | 42.65 | 38.55 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 14:42:46 | 42.98 | 38.88 | 77 | 0.54 | 0.17 | 4.2 |
| 5/2/2015 14:42:47 | 43.31 | 39.21 | 232 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 14:42:50 | 43.64 | 39.54 | 163 | 0.54 | 0.17 | 8.9 |
| 5/2/2015 14:42:52 | 43.96 | 39.86 | 179 | 0.54 | 0.17 | 9.8 |
| 5/2/2015 14:42:54 | 44.29 | 40.19 | 160 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 14:42:55 | 44.62 | 40.52 | 207 | 0.54 | 0.17 | 11.3 |
| 5/2/2015 14:42:56 | 44.95 | 40.85 | 286 | 0.54 | 0.17 | 15.6 |
| 5/2/2015 14:42:57 | 45.28 | 41.18 | 374 | 0.54 | 0.17 | 20.4 |
| 5/2/2015 14:42:59 | 45.60 | 41.50 | 140 | 0.54 | 0.17 | 7.6 |
| 5/2/2015 14:43:00 | 45.93 | 41.83 | 205 | 0.54 | 0.17 | 11.2 |
| 5/2/2015 14:43:08 | 46.26 | 42.16 | 40 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 14:43:18 | 46.59 | 42.49 | 39 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 14:43:27 | 46.92 | 42.82 | 32 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 14:43:37 | 47.24 | 43.14 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 14:43:43 | 47.48 | 43.38 | 35 | 0.54 | 0.17 | 1.9 |

## P13 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:41:16

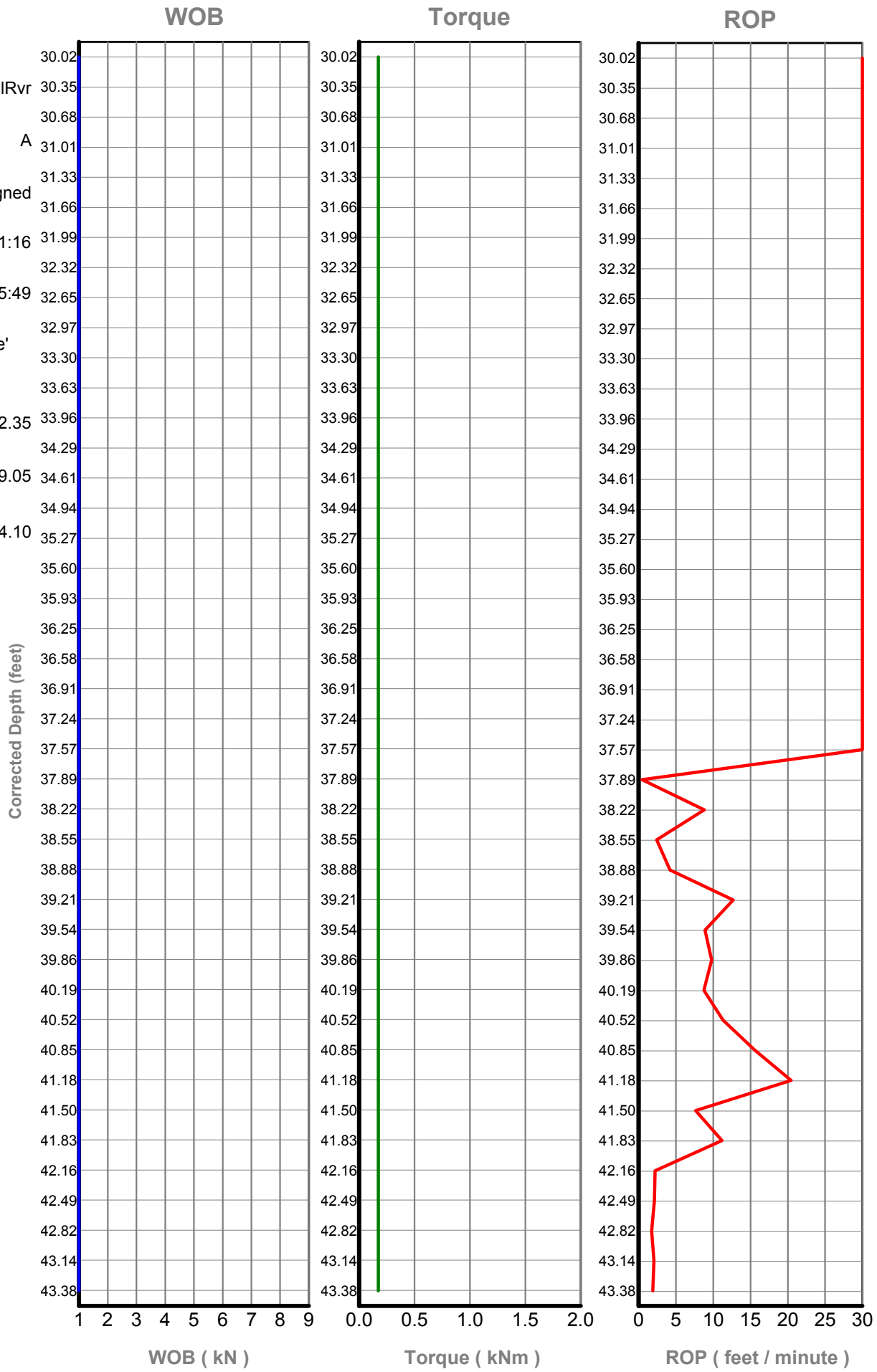
**End Date:**
5/2/2015 14:45:49

**Operator Note:**
'4.1 4.5 a Auto Complete'

**Northing:**
349,982.35

**Easting:**
225,489.05

**Tide (feet):**
4.10



## Hole: P130 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:40:10 | 35.76 | 30.16 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:11 | 36.09 | 30.49 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:11 | 36.42 | 30.82 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:11 | 36.75 | 31.15 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:11 | 37.07 | 31.47 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:12 | 37.40 | 31.80 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:12 | 37.73 | 32.13 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:12 | 38.06 | 32.46 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:13 | 38.39 | 32.79 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:13 | 38.71 | 33.11 | 1,177 | 0.54 | 0.17 | 64.3 |
| 5/3/2015 2:40:13 | 39.04 | 33.44 | 1,186 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:14 | 39.37 | 33.77 | 1,186 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:14 | 39.70 | 34.10 | 1,182 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:14 | 40.03 | 34.43 | 1,182 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 2:40:14 | 40.35 | 34.75 | 1,189 | 0.54 | 0.17 | 65.0 |
| 5/3/2015 2:40:15 | 40.68 | 35.08 | 1,189 | 0.54 | 0.17 | 65.0 |
| 5/3/2015 2:40:15 | 41.01 | 35.41 | 1,190 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 2:40:15 | 41.34 | 35.74 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:16 | 41.67 | 36.07 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:16 | 41.99 | 36.39 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:16 | 42.32 | 36.72 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:16 | 42.65 | 37.05 | 1,193 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:17 | 42.98 | 37.38 | 1,193 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:17 | 43.31 | 37.71 | 1,182 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 2:40:17 | 43.64 | 38.04 | 1,189 | 0.54 | 0.17 | 65.0 |
| 5/3/2015 2:40:18 | 43.96 | 38.36 | 1,189 | 0.54 | 0.17 | 65.0 |
| 5/3/2015 2:40:18 | 44.29 | 38.69 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:18 | 44.62 | 39.02 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:18 | 44.95 | 39.35 | 1,186 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 2:40:19 | 45.28 | 39.68 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:19 | 45.60 | 40.00 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 2:40:19 | 45.93 | 40.33 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/3/2015 2:40:20 | 46.26 | 40.66 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/3/2015 2:40:20 | 46.59 | 40.99 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:21 | 46.92 | 41.32 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 2:40:21 | 47.24 | 41.64 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 2:40:21 | 47.57 | 41.97 | 1,190 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 2:40:22 | 47.90 | 42.30 | 1,190 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 2:40:22 | 48.23 | 42.63 | 1,190 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 2:40:22 | 48.56 | 42.96 | 1,190 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 2:40:22 | 48.88 | 43.28 | 1,197 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 2:40:35 | 49.21 | 43.61 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 2:40:36 | 49.54 | 43.94 | 112 | 0.54 | 0.17 | 6.1 |
| 5/3/2015 2:40:38 | 49.87 | 44.27 | 328 | 0.54 | 0.17 | 17.9 |
| 5/3/2015 2:40:40 | 50.20 | 44.60 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 2:40:40 | 50.53 | 44.93 | 196 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 2:40:57 | 50.85 | 45.25 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 2:40:59 | 51.18 | 45.58 | 225 | 0.54 | 0.17 | 12.3 |
| 5/3/2015 2:41:00 | 51.51 | 45.91 | 262 | 0.54 | 0.17 | 14.3 |
| 5/3/2015 2:41:01 | 51.84 | 46.24 | 270 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 2:41:02 | 52.17 | 46.57 | 312 | 0.54 | 0.17 | 17.0 |
| 5/3/2015 2:41:02 | 52.49 | 46.89 | 376 | 0.54 | 0.17 | 20.5 |
| 5/3/2015 2:41:03 | 52.82 | 47.22 | 469 | 0.54 | 0.17 | 25.6 |
| 5/3/2015 2:41:04 | 53.15 | 47.55 | 494 | 0.54 | 0.17 | 27.0 |
| 5/3/2015 2:41:05 | 53.48 | 47.88 | 375 | 0.54 | 0.17 | 20.5 |
| 5/3/2015 2:41:06 | 53.81 | 48.21 | 312 | 0.54 | 0.17 | 17.0 |
| 5/3/2015 2:41:08 | 54.13 | 48.53 | 257 | 0.54 | 0.17 | 14.0 |
| 5/3/2015 2:41:11 | 54.46 | 48.86 | 172 | 0.54 | 0.17 | 9.4 |
| 5/3/2015 2:41:13 | 54.79 | 49.19 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 2:41:16 | 55.12 | 49.52 | 111 | 0.54 | 0.17 | 6.1 |
| 5/3/2015 2:41:20 | 55.45 | 49.85 | 99 | 0.54 | 0.17 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:41:25 | 55.77 | 50.17 | 46 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 | 2:41:28 | 56.10 | 50.50 | 113 | 0.54 | 0.17 | 6.2 |
| 5/3/2015 | 2:41:32 | 56.43 | 50.83 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 2:41:36 | 56.76 | 51.16 | 108 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 | 2:41:39 | 57.09 | 51.49 | 87 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 | 2:41:44 | 57.41 | 51.81 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 2:41:48 | 57.74 | 52.14 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 2:41:57 | 58.07 | 52.47 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 2:42:12 | 58.40 | 52.80 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 | 2:42:26 | 58.73 | 53.13 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 | 2:42:28 | 58.80 | 53.20 | 29 | 0.54 | 0.17 | 1.6 |

## P130 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:19:19

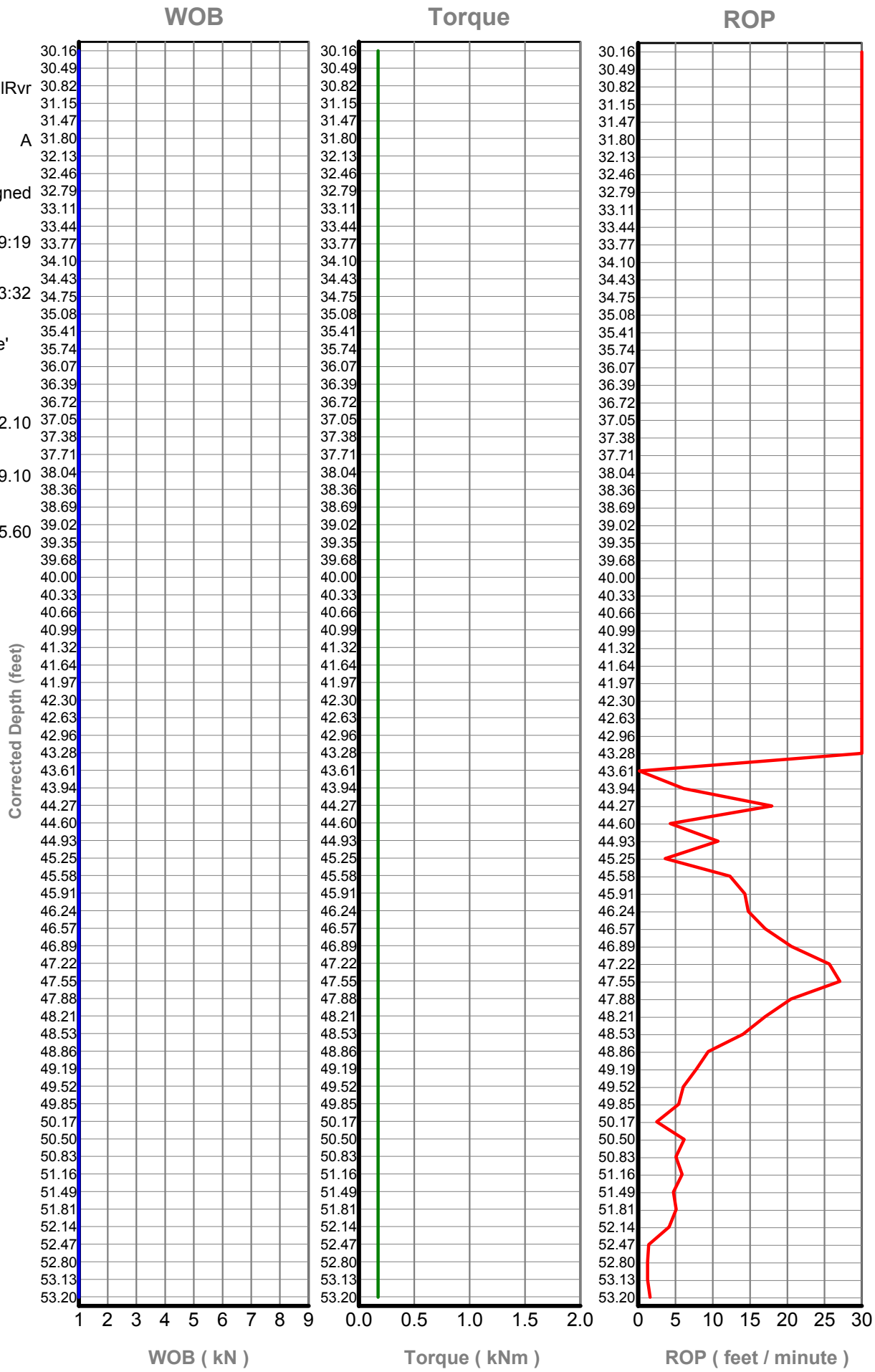
**End Date:**
5/3/2015 2:43:32

**Operator Note:**
'5.6 5.4 a Auto Complete'

**Northing:**
349,192.10

**Easting:**
224,919.10

**Tide (feet):**
5.60



## Hole: P131 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:40:19 | 35.43 | 30.03 | 1,278 | 0.30 | 0.38 | 69.9 |
| 5/3/2015 2:40:20 | 35.76 | 30.36 | 1,278 | 0.30 | 0.38 | 69.9 |
| 5/3/2015 2:40:20 | 36.09 | 30.69 | 1,260 | 0.30 | 0.38 | 68.9 |
| 5/3/2015 2:40:20 | 36.42 | 31.02 | 1,260 | 0.30 | 0.38 | 68.9 |
| 5/3/2015 2:40:20 | 36.75 | 31.35 | 1,250 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:40:21 | 37.07 | 31.67 | 1,250 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:40:21 | 37.40 | 32.00 | 1,261 | 0.30 | 0.39 | 68.9 |
| 5/3/2015 2:40:22 | 37.73 | 32.33 | 1,245 | 0.30 | 0.38 | 68.1 |
| 5/3/2015 2:40:22 | 38.06 | 32.66 | 1,245 | 0.30 | 0.38 | 68.1 |
| 5/3/2015 2:40:22 | 38.39 | 32.99 | 1,252 | 0.31 | 0.38 | 68.5 |
| 5/3/2015 2:40:23 | 38.71 | 33.31 | 1,252 | 0.31 | 0.38 | 68.5 |
| 5/3/2015 2:40:23 | 39.04 | 33.64 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 2:40:23 | 39.37 | 33.97 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 2:40:23 | 39.70 | 34.30 | 1,271 | 0.30 | 0.39 | 69.5 |
| 5/3/2015 2:40:24 | 40.03 | 34.63 | 1,271 | 0.30 | 0.39 | 69.5 |
| 5/3/2015 2:40:24 | 40.35 | 34.95 | 1,260 | 0.30 | 0.38 | 68.9 |
| 5/3/2015 2:40:24 | 40.68 | 35.28 | 1,260 | 0.30 | 0.38 | 68.9 |
| 5/3/2015 2:40:24 | 41.01 | 35.61 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:40:25 | 41.34 | 35.94 | 1,256 | 0.31 | 0.38 | 68.7 |
| 5/3/2015 2:40:25 | 41.67 | 36.27 | 1,256 | 0.31 | 0.38 | 68.7 |
| 5/3/2015 2:40:25 | 41.99 | 36.59 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 2:40:26 | 42.32 | 36.92 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 2:40:26 | 42.65 | 37.25 | 1,250 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:40:26 | 42.98 | 37.58 | 1,250 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:40:26 | 43.31 | 37.91 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:40:27 | 43.64 | 38.24 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:40:27 | 43.96 | 38.56 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:40:27 | 44.29 | 38.89 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:40:27 | 44.62 | 39.22 | 1,268 | 0.31 | 0.38 | 69.3 |
| 5/3/2015 2:40:28 | 44.95 | 39.55 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 2:40:28 | 45.28 | 39.88 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 2:40:28 | 45.60 | 40.20 | 1,265 | 0.30 | 0.39 | 69.2 |
| 5/3/2015 2:40:29 | 45.93 | 40.53 | 1,265 | 0.30 | 0.39 | 69.2 |
| 5/3/2015 2:40:29 | 46.26 | 40.86 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:40:29 | 46.59 | 41.19 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:40:29 | 46.92 | 41.52 | 1,255 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 2:40:30 | 47.24 | 41.84 | 1,255 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 2:40:30 | 47.57 | 42.17 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 2:40:30 | 47.90 | 42.50 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 2:40:30 | 48.23 | 42.83 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 2:40:31 | 48.56 | 43.16 | 1,244 | 0.31 | 0.38 | 68.1 |
| 5/3/2015 2:40:31 | 48.88 | 43.48 | 1,244 | 0.31 | 0.38 | 68.1 |
| 5/3/2015 2:40:32 | 49.21 | 43.81 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 2:40:32 | 49.54 | 44.14 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 2:40:32 | 49.87 | 44.47 | 1,235 | 0.29 | 0.46 | 67.5 |
| 5/3/2015 2:40:37 | 50.20 | 44.80 | 117 | 5.59 | 0.48 | 6.4 |
| 5/3/2015 2:40:40 | 50.53 | 45.13 | 87 | 5.26 | 0.47 | 4.8 |
| 5/3/2015 2:40:47 | 50.85 | 45.45 | 46 | 5.74 | 0.49 | 2.5 |
| 5/3/2015 2:40:48 | 51.18 | 45.78 | 115 | 2.82 | 0.42 | 6.3 |
| 5/3/2015 2:40:48 | 51.51 | 46.11 | 233 | 2.74 | 0.44 | 12.7 |
| 5/3/2015 2:40:49 | 51.84 | 46.44 | 368 | 2.53 | 0.43 | 20.1 |
| 5/3/2015 2:40:50 | 52.17 | 46.77 | 493 | 3.10 | 0.45 | 27.0 |
| 5/3/2015 2:40:50 | 52.49 | 47.09 | 561 | 2.73 | 0.44 | 30.7 |
| 5/3/2015 2:40:51 | 52.82 | 47.42 | 561 | 2.90 | 0.44 | 30.7 |
| 5/3/2015 2:40:52 | 53.15 | 47.75 | 501 | 2.90 | 0.46 | 27.4 |
| 5/3/2015 2:40:53 | 53.48 | 48.08 | 475 | 3.01 | 0.46 | 26.0 |
| 5/3/2015 2:40:57 | 53.81 | 48.41 | 0 | 2.45 | 0.42 | 0.0 |
| 5/3/2015 2:40:57 | 54.13 | 48.73 | 118 | 2.97 | 0.44 | 6.4 |
| 5/3/2015 2:40:58 | 54.46 | 49.06 | 298 | 4.02 | 0.46 | 16.3 |
| 5/3/2015 2:40:59 | 54.79 | 49.39 | 362 | 2.38 | 0.42 | 19.8 |
| 5/3/2015 2:41:00 | 55.12 | 49.72 | 467 | 3.43 | 0.47 | 25.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:41:05 | 55.45 | 50.05 | 29 | 3.24 | 0.49 | 1.6 |
| 5/3/2015 | 2:41:23 | 55.77 | 50.37 | 32 | 3.34 | 0.48 | 1.7 |
| 5/3/2015 | 2:41:32 | 56.10 | 50.70 | 26 | 4.11 | 0.48 | 1.4 |
| 5/3/2015 | 2:41:36 | 56.43 | 51.03 | 116 | 3.84 | 0.48 | 6.3 |
| 5/3/2015 | 2:41:39 | 56.76 | 51.36 | 118 | 4.30 | 0.48 | 6.5 |
| 5/3/2015 | 2:41:42 | 57.09 | 51.69 | 95 | 3.40 | 0.48 | 5.2 |
| 5/3/2015 | 2:41:46 | 57.41 | 52.01 | 98 | 2.99 | 0.48 | 5.4 |
| 5/3/2015 | 2:41:50 | 57.74 | 52.34 | 95 | 2.93 | 0.48 | 5.2 |
| 5/3/2015 | 2:41:53 | 58.07 | 52.67 | 110 | 3.14 | 0.48 | 6.0 |
| 5/3/2015 | 2:41:57 | 58.40 | 53.00 | 119 | 3.33 | 0.48 | 6.5 |
| 5/3/2015 | 2:41:59 | 58.73 | 53.33 | 127 | 3.96 | 0.47 | 7.0 |
| 5/3/2015 | 2:42:02 | 59.06 | 53.66 | 134 | 3.56 | 0.47 | 7.3 |
| 5/3/2015 | 2:42:06 | 59.38 | 53.98 | 110 | 3.28 | 0.47 | 6.0 |
| 5/3/2015 | 2:42:10 | 59.71 | 54.31 | 64 | 3.33 | 0.49 | 3.5 |
| 5/3/2015 | 2:42:18 | 60.04 | 54.64 | 67 | 4.15 | 0.46 | 3.6 |
| 5/3/2015 | 2:42:23 | 60.37 | 54.97 | 75 | 3.42 | 0.48 | 4.1 |
| 5/3/2015 | 2:42:27 | 60.65 | 55.25 | 86 | 4.57 | 0.48 | 4.7 |

## P131 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:38:51

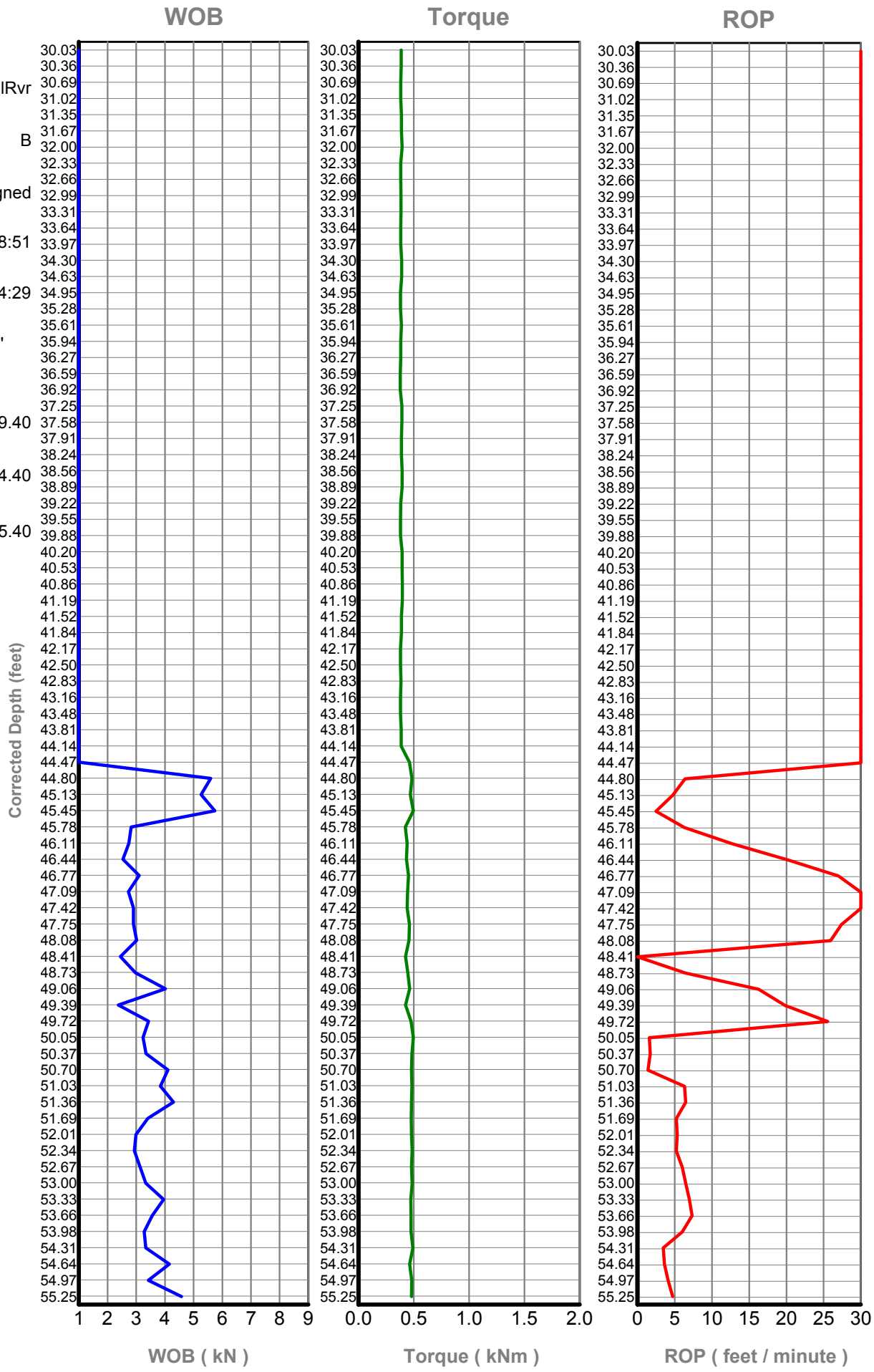
**End Date:**
5/3/2015 2:44:29

**Operator Note:**
'5.4 5.6b Auto Complete'

**Northing:**
349,229.40

**Easting:**
224,984.40

**Tide (feet):**
5.40



## Hole: P132 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:40:02 | 35.43 | 30.03 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 2:40:03 | 35.76 | 30.36 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 2:40:03 | 36.09 | 30.69 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 2:40:03 | 36.42 | 31.02 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 2:40:04 | 36.75 | 31.35 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 2:40:04 | 37.07 | 31.67 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 2:40:04 | 37.40 | 32.00 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 2:40:04 | 37.73 | 32.33 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 2:40:05 | 38.06 | 32.66 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 2:40:05 | 38.39 | 32.99 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 2:40:05 | 38.71 | 33.31 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 2:40:06 | 39.04 | 33.64 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:07 | 39.37 | 33.97 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:06 | 39.70 | 34.30 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 2:40:07 | 40.03 | 34.63 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:07 | 40.35 | 34.95 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:07 | 40.68 | 35.28 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:08 | 41.01 | 35.61 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:08 | 41.34 | 35.94 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 2:40:09 | 41.67 | 36.27 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:09 | 41.99 | 36.59 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:09 | 42.32 | 36.92 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:10 | 42.65 | 37.25 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 2:40:10 | 42.98 | 37.58 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 2:40:10 | 43.31 | 37.91 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 2:40:11 | 43.64 | 38.24 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 2:40:11 | 43.96 | 38.56 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 2:40:11 | 44.29 | 38.89 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:12 | 44.62 | 39.22 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:40:12 | 44.95 | 39.55 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 2:40:12 | 45.28 | 39.88 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:40:13 | 45.60 | 40.20 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:40:13 | 45.93 | 40.53 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:13 | 46.26 | 40.86 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:40:14 | 46.59 | 41.19 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:40:14 | 46.92 | 41.52 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:40:14 | 47.24 | 41.84 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:15 | 47.57 | 42.17 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:15 | 47.90 | 42.50 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:15 | 48.23 | 42.83 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:15 | 48.56 | 43.16 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:16 | 48.88 | 43.48 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:16 | 49.21 | 43.81 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 2:40:16 | 49.54 | 44.14 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:17 | 49.87 | 44.47 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 2:40:35 | 50.20 | 44.80 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 2:40:46 | 50.53 | 45.13 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 2:41:00 | 50.85 | 45.45 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 2:41:01 | 51.18 | 45.78 | 175 | 1.14 | 0.29 | 9.5 |
| 5/3/2015 2:41:12 | 51.51 | 46.11 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 2:41:13 | 51.84 | 46.44 | 107 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 2:41:14 | 52.17 | 46.77 | 317 | 1.14 | 0.29 | 17.3 |
| 5/3/2015 2:41:24 | 52.49 | 47.09 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 2:41:25 | 52.82 | 47.42 | 147 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 2:41:26 | 53.15 | 47.75 | 250 | 1.14 | 0.29 | 13.7 |
| 5/3/2015 2:41:26 | 53.48 | 48.08 | 359 | 1.14 | 0.29 | 19.6 |
| 5/3/2015 2:41:27 | 53.81 | 48.41 | 435 | 1.14 | 0.29 | 23.8 |
| 5/3/2015 2:41:36 | 54.13 | 48.73 | 115 | 1.14 | 0.29 | 6.3 |
| 5/3/2015 2:41:37 | 54.46 | 49.06 | 236 | 1.14 | 0.29 | 12.9 |
| 5/3/2015 2:41:38 | 54.79 | 49.39 | 308 | 1.14 | 0.29 | 16.9 |
| 5/3/2015 2:41:40 | 55.12 | 49.72 | 253 | 1.14 | 0.29 | 13.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:41:41 | 55.45 | 50.05 | 289 | 1.14 | 0.29 | 15.8 |
| 5/3/2015 | 2:41:43 | 55.77 | 50.37 | 286 | 1.14 | 0.29 | 15.6 |
| 5/3/2015 | 2:41:45 | 56.10 | 50.70 | 145 | 1.14 | 0.29 | 7.9 |
| 5/3/2015 | 2:41:49 | 56.43 | 51.03 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 | 2:41:55 | 56.76 | 51.36 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 2:42:20 | 57.09 | 51.69 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 | 2:42:36 | 57.41 | 52.01 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 2:42:51 | 57.74 | 52.34 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 2:43:07 | 58.07 | 52.67 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 2:43:08 | 58.10 | 52.70 | 23 | 1.14 | 0.29 | 1.3 |

## P132 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:38:43

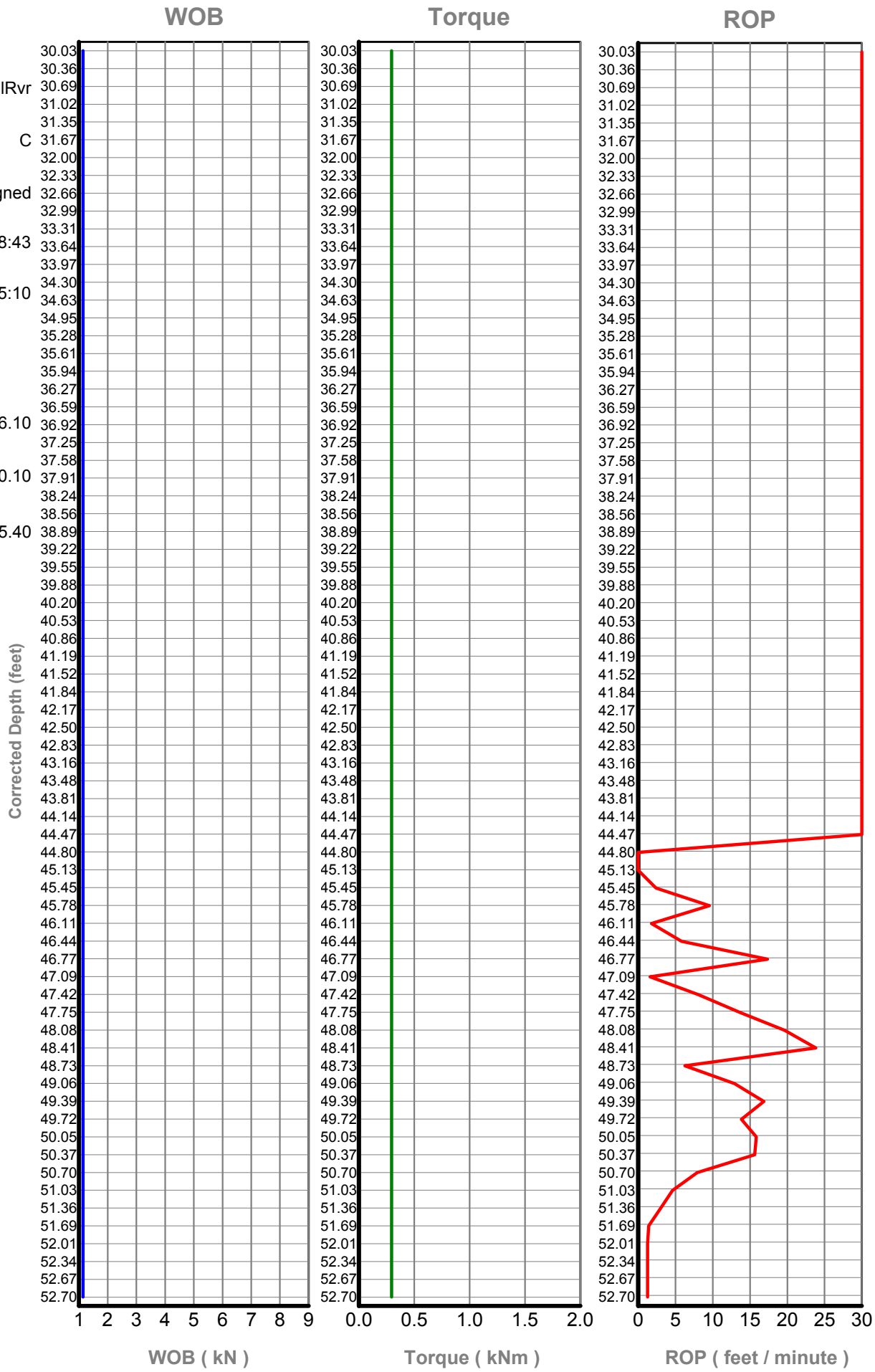
**End Date:**
5/3/2015 2:45:10

**Operator Note:**
'5.4 Auto Complete'

**Northing:**
349,266.10

**Easting:**
225,050.10

**Tide (feet):**
5.40



## Hole: P133 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:29:39 | 36.42 | 30.32 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:39 | 36.75 | 30.65 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:39 | 37.07 | 30.97 | 1,256 | 0.54 | 0.17 | 68.7 |
| 5/2/2015 22:29:40 | 37.40 | 31.30 | 1,256 | 0.54 | 0.17 | 68.7 |
| 5/2/2015 22:29:40 | 37.73 | 31.63 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:40 | 38.06 | 31.96 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:40 | 38.39 | 32.29 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:41 | 38.71 | 32.61 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:41 | 39.04 | 32.94 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:41 | 39.37 | 33.27 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:41 | 39.70 | 33.60 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 22:29:42 | 40.03 | 33.93 | 1,243 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:42 | 40.35 | 34.25 | 1,243 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:42 | 40.68 | 34.58 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/2/2015 22:29:43 | 41.01 | 34.91 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/2/2015 22:29:43 | 41.34 | 35.24 | 1,237 | 0.54 | 0.17 | 67.7 |
| 5/2/2015 22:29:43 | 41.67 | 35.57 | 1,237 | 0.54 | 0.17 | 67.7 |
| 5/2/2015 22:29:43 | 41.99 | 35.89 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:44 | 42.32 | 36.22 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 22:29:44 | 42.65 | 36.55 | 1,239 | 0.54 | 0.17 | 67.7 |
| 5/2/2015 22:29:51 | 42.98 | 36.88 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:29:51 | 43.31 | 37.21 | 124 | 0.54 | 0.17 | 6.8 |
| 5/2/2015 22:29:52 | 43.64 | 37.54 | 124 | 0.54 | 0.17 | 6.8 |
| 5/2/2015 22:29:52 | 43.96 | 37.86 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 22:29:52 | 44.29 | 38.19 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 22:29:52 | 44.62 | 38.52 | 590 | 0.54 | 0.17 | 32.3 |
| 5/2/2015 22:29:53 | 44.95 | 38.85 | 826 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 22:29:53 | 45.28 | 39.18 | 826 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 22:29:53 | 45.60 | 39.50 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:29:54 | 45.93 | 39.83 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:29:54 | 46.26 | 40.16 | 1,166 | 0.54 | 0.17 | 63.8 |
| 5/2/2015 22:29:54 | 46.59 | 40.49 | 1,166 | 0.54 | 0.17 | 63.7 |
| 5/2/2015 22:29:55 | 46.92 | 40.82 | 1,166 | 0.54 | 0.17 | 63.7 |
| 5/2/2015 22:29:55 | 47.24 | 41.14 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/2/2015 22:29:55 | 47.57 | 41.47 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/2/2015 22:29:55 | 47.90 | 41.80 | 1,162 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 22:29:56 | 48.23 | 42.13 | 1,166 | 0.54 | 0.17 | 63.8 |
| 5/2/2015 22:29:56 | 48.56 | 42.46 | 1,166 | 0.54 | 0.17 | 63.8 |
| 5/2/2015 22:29:56 | 48.88 | 42.78 | 1,165 | 0.54 | 0.17 | 63.7 |
| 5/2/2015 22:29:57 | 49.21 | 43.11 | 1,165 | 0.54 | 0.17 | 63.7 |
| 5/2/2015 22:29:57 | 49.54 | 43.44 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/2/2015 22:30:21 | 49.87 | 43.77 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:30:23 | 50.20 | 44.10 | 78 | 0.54 | 0.17 | 4.2 |
| 5/2/2015 22:30:31 | 50.53 | 44.43 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:30:39 | 50.85 | 44.75 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:30:31 | 51.18 | 45.08 | 209 | 0.54 | 0.17 | 11.4 |
| 5/2/2015 22:30:36 | 51.51 | 45.41 | 13 | 0.54 | 0.17 | 0.7 |
| 5/2/2015 22:30:38 | 51.84 | 45.74 | 111 | 0.54 | 0.17 | 6.1 |
| 5/2/2015 22:30:39 | 52.17 | 46.07 | 198 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 22:30:41 | 52.49 | 46.39 | 217 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 22:30:41 | 52.82 | 46.72 | 335 | 0.54 | 0.17 | 18.3 |
| 5/2/2015 22:30:58 | 53.15 | 47.05 | 69 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 22:31:04 | 53.48 | 47.38 | 87 | 0.54 | 0.17 | 4.7 |
| 5/2/2015 22:31:11 | 53.81 | 47.71 | 21 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 22:31:17 | 54.13 | 48.03 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:31:18 | 54.46 | 48.36 | 125 | 0.54 | 0.17 | 6.8 |
| 5/2/2015 22:31:20 | 54.79 | 48.69 | 189 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 22:31:23 | 55.12 | 49.02 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 22:31:24 | 55.45 | 49.35 | 233 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 22:31:25 | 55.77 | 49.67 | 311 | 0.54 | 0.17 | 17.0 |
| 5/2/2015 22:31:27 | 56.10 | 50.00 | 351 | 0.54 | 0.17 | 19.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:31:28 | 56.43 | 50.33 | 278 | 0.54 | 0.17 | 15.2 |
| 5/2/2015 | 22:32:00 | 56.76 | 50.66 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 | 22:32:01 | 57.09 | 50.99 | 189 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 | 22:32:04 | 57.41 | 51.31 | 56 | 0.54 | 0.17 | 3.1 |
| 5/2/2015 | 22:32:05 | 57.74 | 51.64 | 113 | 0.54 | 0.17 | 6.2 |
| 5/2/2015 | 22:32:07 | 58.07 | 51.97 | 220 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 | 22:32:13 | 58.40 | 52.30 | 73 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 | 22:32:17 | 58.73 | 52.63 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 22:32:23 | 59.06 | 52.96 | 61 | 0.54 | 0.17 | 3.3 |
| 5/2/2015 | 22:32:27 | 59.38 | 53.28 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 22:32:41 | 59.71 | 53.61 | 20 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 | 22:32:45 | 60.04 | 53.94 | 99 | 0.54 | 0.17 | 5.4 |
| 5/2/2015 | 22:32:48 | 60.37 | 54.27 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 22:32:52 | 60.70 | 54.60 | 98 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 22:32:56 | 61.02 | 54.92 | 78 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 | 22:32:57 | 61.07 | 54.97 | 78 | 0.54 | 0.17 | 4.3 |

## P133 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:18:56

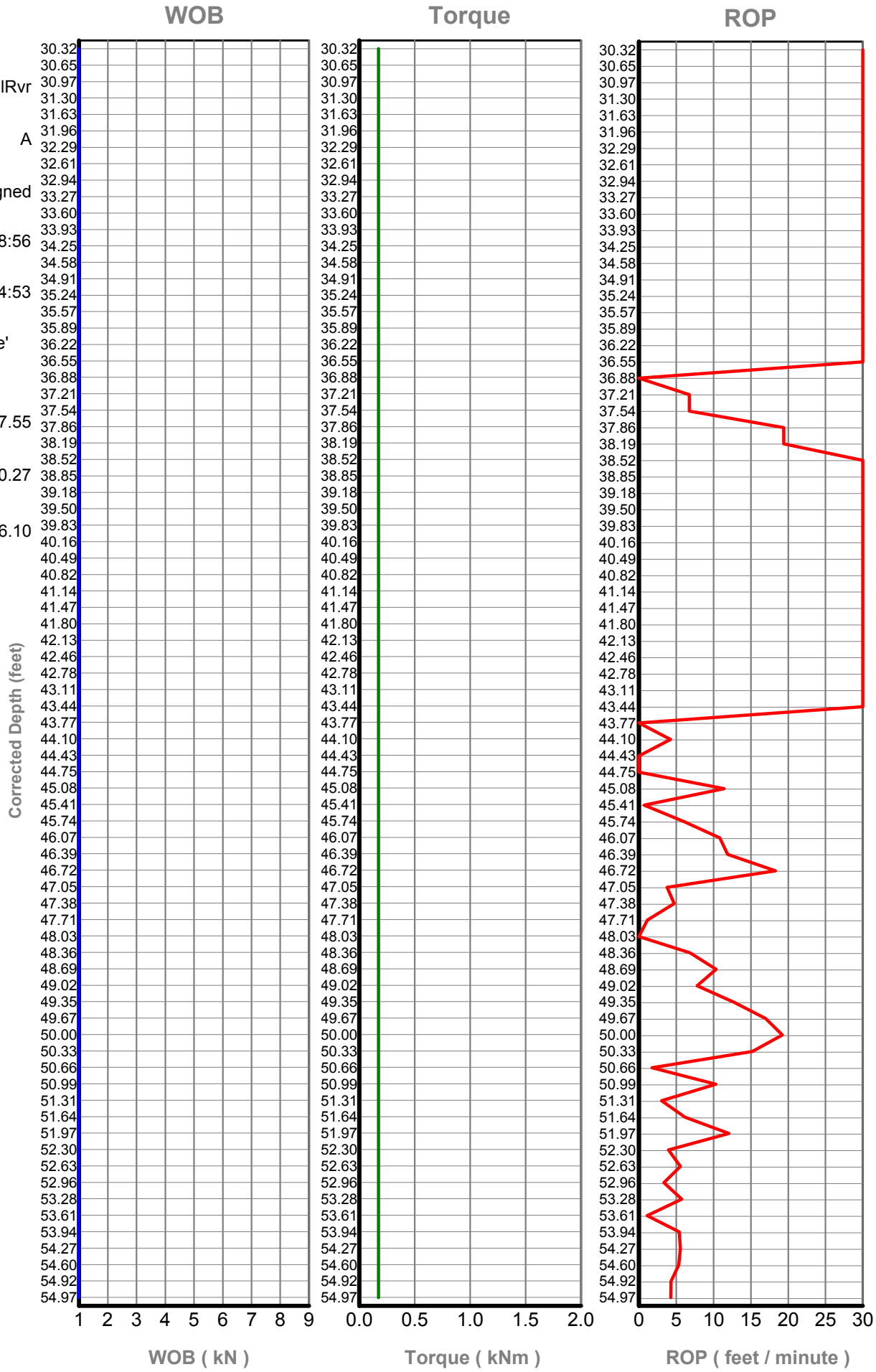
**End Date:**
5/2/2015 22:34:53

**Operator Note:**
'6.1 6.1 a Auto Complete'

**Northing:**
349,307.55

**Easting:**
225,110.27

**Tide (feet):**
6.10



## Hole: P134 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:30:33 | 36.42 | 30.12 | 1,186 | 0.34 | 0.41 | 64.9 |
| 5/2/2015 22:30:33 | 36.75 | 30.45 | 1,170 | 0.34 | 0.40 | 64.0 |
| 5/2/2015 22:30:33 | 37.07 | 30.77 | 1,167 | 0.34 | 0.40 | 63.8 |
| 5/2/2015 22:30:34 | 37.40 | 31.10 | 1,167 | 0.34 | 0.40 | 63.8 |
| 5/2/2015 22:30:34 | 37.73 | 31.43 | 1,170 | 0.34 | 0.41 | 64.0 |
| 5/2/2015 22:30:34 | 38.06 | 31.76 | 1,170 | 0.34 | 0.41 | 64.0 |
| 5/2/2015 22:30:34 | 38.39 | 32.09 | 1,188 | 0.34 | 0.40 | 65.0 |
| 5/2/2015 22:30:35 | 38.71 | 32.41 | 1,188 | 0.34 | 0.40 | 65.0 |
| 5/2/2015 22:30:35 | 39.04 | 32.74 | 1,179 | 0.29 | 0.40 | 64.5 |
| 5/2/2015 22:30:35 | 39.37 | 33.07 | 1,179 | 0.34 | 0.41 | 64.5 |
| 5/2/2015 22:30:36 | 39.70 | 33.40 | 1,179 | 0.34 | 0.41 | 64.5 |
| 5/2/2015 22:30:36 | 40.03 | 33.73 | 1,172 | 0.33 | 0.40 | 64.1 |
| 5/2/2015 22:30:36 | 40.35 | 34.05 | 1,172 | 0.33 | 0.40 | 64.1 |
| 5/2/2015 22:30:36 | 40.68 | 34.38 | 1,182 | 0.34 | 0.40 | 64.7 |
| 5/2/2015 22:30:37 | 41.01 | 34.71 | 1,180 | 0.34 | 0.41 | 64.5 |
| 5/2/2015 22:30:38 | 41.34 | 35.04 | 1,180 | 0.34 | 0.41 | 64.5 |
| 5/2/2015 22:30:38 | 41.67 | 35.37 | 1,180 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 22:30:38 | 41.99 | 35.69 | 1,180 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 22:30:38 | 42.32 | 36.02 | 1,161 | 0.33 | 0.40 | 63.5 |
| 5/2/2015 22:30:39 | 42.65 | 36.35 | 1,161 | 0.33 | 0.40 | 63.5 |
| 5/2/2015 22:30:39 | 42.98 | 36.68 | 1,161 | 0.34 | 0.40 | 63.5 |
| 5/2/2015 22:30:39 | 43.31 | 37.01 | 1,179 | 0.33 | 0.41 | 64.4 |
| 5/2/2015 22:30:40 | 43.64 | 37.34 | 1,179 | 0.33 | 0.41 | 64.4 |
| 5/2/2015 22:30:40 | 43.96 | 37.66 | 1,168 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 22:30:40 | 44.29 | 37.99 | 1,168 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 22:30:40 | 44.62 | 38.32 | 1,163 | 0.34 | 0.40 | 63.6 |
| 5/2/2015 22:30:41 | 44.95 | 38.65 | 1,168 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 22:30:41 | 45.28 | 38.98 | 1,168 | 0.33 | 0.40 | 63.9 |
| 5/2/2015 22:30:41 | 45.60 | 39.30 | 1,184 | 0.33 | 0.40 | 64.7 |
| 5/2/2015 22:30:42 | 45.93 | 39.63 | 1,184 | 0.33 | 0.40 | 64.7 |
| 5/2/2015 22:30:42 | 46.26 | 39.96 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 22:30:42 | 46.59 | 40.29 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/2/2015 22:30:42 | 46.92 | 40.62 | 1,165 | 0.34 | 0.41 | 63.7 |
| 5/2/2015 22:30:43 | 47.24 | 40.94 | 1,177 | 0.34 | 0.41 | 64.4 |
| 5/2/2015 22:30:43 | 47.57 | 41.27 | 1,177 | 0.34 | 0.41 | 64.4 |
| 5/2/2015 22:30:43 | 47.90 | 41.60 | 1,160 | 0.34 | 0.40 | 63.4 |
| 5/2/2015 22:30:44 | 48.23 | 41.93 | 1,160 | 0.34 | 0.40 | 63.4 |
| 5/2/2015 22:30:44 | 48.56 | 42.26 | 1,178 | 0.33 | 0.40 | 64.4 |
| 5/2/2015 22:30:44 | 48.88 | 42.58 | 1,168 | 0.34 | 0.40 | 63.9 |
| 5/2/2015 22:30:45 | 49.21 | 42.91 | 1,168 | 0.34 | 0.40 | 63.9 |
| 5/2/2015 22:30:45 | 49.54 | 43.24 | 1,184 | 0.34 | 0.40 | 64.8 |
| 5/2/2015 22:30:45 | 49.87 | 43.57 | 1,184 | 0.34 | 0.40 | 64.8 |
| 5/2/2015 22:30:45 | 50.20 | 43.90 | 1,172 | 0.33 | 0.41 | 64.1 |
| 5/2/2015 22:30:46 | 50.53 | 44.23 | 1,172 | 0.33 | 0.41 | 64.1 |
| 5/2/2015 22:30:46 | 50.85 | 44.55 | 1,173 | 0.34 | 0.41 | 64.1 |
| 5/2/2015 22:30:46 | 51.18 | 44.88 | 1,165 | 0.33 | 0.41 | 63.7 |
| 5/2/2015 22:30:47 | 51.51 | 45.21 | 1,165 | 0.33 | 0.41 | 63.7 |
| 5/2/2015 22:30:47 | 51.84 | 45.54 | 1,171 | 0.34 | 0.41 | 64.0 |
| 5/2/2015 22:30:48 | 52.17 | 45.87 | 1,171 | 0.34 | 0.41 | 64.0 |
| 5/2/2015 22:30:48 | 52.49 | 46.19 | 1,051 | 0.30 | 0.50 | 57.4 |
| 5/2/2015 22:30:55 | 52.82 | 46.52 | 59 | 3.88 | 0.45 | 3.2 |
| 5/2/2015 22:30:58 | 53.15 | 46.85 | 159 | 4.10 | 0.48 | 8.7 |
| 5/2/2015 22:30:59 | 53.48 | 47.18 | 184 | 4.72 | 0.49 | 10.1 |
| 5/2/2015 22:31:00 | 53.81 | 47.51 | 228 | 3.95 | 0.46 | 12.5 |
| 5/2/2015 22:31:01 | 54.13 | 47.83 | 351 | 4.26 | 0.48 | 19.2 |
| 5/2/2015 22:31:01 | 54.46 | 48.16 | 410 | 4.87 | 0.48 | 22.4 |
| 5/2/2015 22:31:10 | 54.79 | 48.49 | 9 | 7.19 | 0.50 | 0.5 |
| 5/2/2015 22:31:12 | 55.12 | 48.82 | 100 | 2.75 | 0.43 | 5.5 |
| 5/2/2015 22:31:13 | 55.45 | 49.15 | 231 | 3.43 | 0.44 | 12.6 |
| 5/2/2015 22:31:16 | 55.77 | 49.47 | 0 | 3.48 | 0.45 | 0.0 |
| 5/2/2015 22:31:19 | 56.10 | 49.80 | 176 | 4.49 | 0.50 | 9.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 22:31:22 | 56.43 | 50.13 | 123 | 4.15 | 0.49 | 6.7 |
| 5/2/2015 22:31:28 | 56.76 | 50.46 | 60 | 4.12 | 0.48 | 3.3 |
| 5/2/2015 22:31:30 | 57.09 | 50.79 | 191 | 5.02 | 0.48 | 10.4 |
| 5/2/2015 22:31:31 | 57.41 | 51.11 | 309 | 6.04 | 0.48 | 16.9 |
| 5/2/2015 22:31:33 | 57.74 | 51.44 | 252 | 3.39 | 0.49 | 13.8 |
| 5/2/2015 22:31:36 | 58.07 | 51.77 | 95 | 3.75 | 0.50 | 5.2 |
| 5/2/2015 22:31:40 | 58.40 | 52.10 | 113 | 3.93 | 0.48 | 6.2 |
| 5/2/2015 22:31:42 | 58.73 | 52.43 | 173 | 4.26 | 0.48 | 9.5 |
| 5/2/2015 22:31:52 | 59.06 | 52.76 | 37 | 3.87 | 0.50 | 2.0 |
| 5/2/2015 22:31:57 | 59.38 | 53.08 | 64 | 3.11 | 0.48 | 3.5 |
| 5/2/2015 22:32:04 | 59.71 | 53.41 | 52 | 3.32 | 0.49 | 2.8 |
| 5/2/2015 22:32:12 | 60.04 | 53.74 | 43 | 2.96 | 0.49 | 2.4 |
| 5/2/2015 22:32:20 | 60.37 | 54.07 | 41 | 3.33 | 0.49 | 2.2 |

## P134 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:28:57

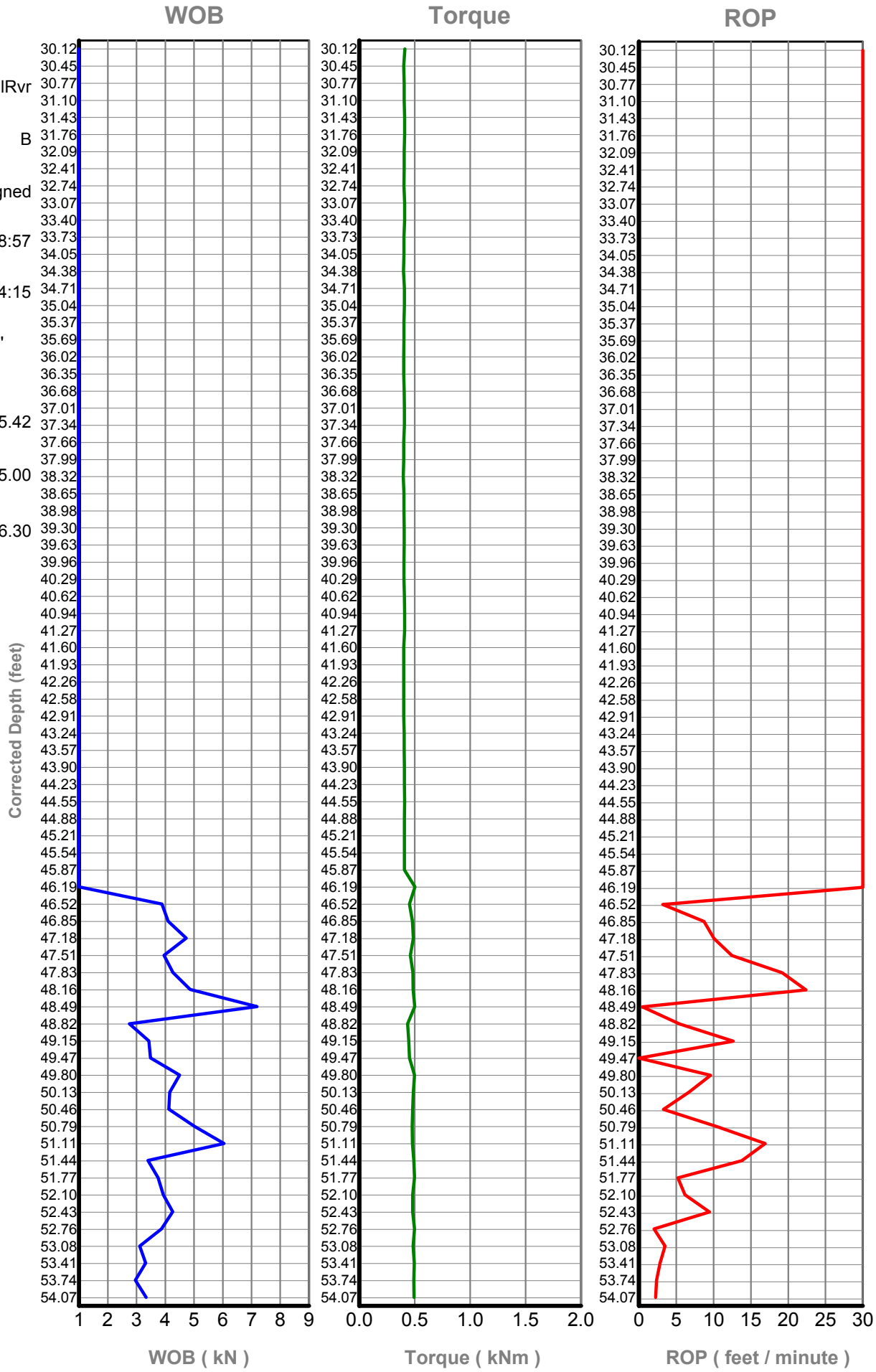
**End Date:**
5/2/2015 22:34:15

**Operator Note:**
'6.3 6.1b Auto Complete'

**Northing:**
349,345.42

**Easting:**
225,175.00

**Tide (feet):**
6.30



## Hole: P135 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:28:52 | 36.42 | 30.12 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:52 | 36.75 | 30.45 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:52 | 37.07 | 30.77 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:28:53 | 37.40 | 31.10 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:28:53 | 37.73 | 31.43 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:53 | 38.06 | 31.76 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:54 | 38.39 | 32.09 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:54 | 38.71 | 32.41 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:54 | 39.04 | 32.74 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:28:55 | 39.37 | 33.07 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:28:55 | 39.70 | 33.40 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:55 | 40.03 | 33.73 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:28:56 | 40.35 | 34.05 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:28:56 | 40.68 | 34.38 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:28:56 | 41.01 | 34.71 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:28:57 | 41.34 | 35.04 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:28:57 | 41.67 | 35.37 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:58 | 41.99 | 35.69 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:58 | 42.32 | 36.02 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:58 | 42.65 | 36.35 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:28:59 | 42.98 | 36.68 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:59 | 43.31 | 37.01 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 22:28:59 | 43.64 | 37.34 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:29:00 | 43.96 | 37.66 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:29:00 | 44.29 | 37.99 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:29:00 | 44.62 | 38.32 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 22:29:01 | 44.95 | 38.65 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 22:29:01 | 45.28 | 38.98 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 22:29:01 | 45.60 | 39.30 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 22:29:02 | 45.93 | 39.63 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 22:29:02 | 46.26 | 39.96 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 22:29:02 | 46.59 | 40.29 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 22:29:03 | 46.92 | 40.62 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 22:29:03 | 47.24 | 40.94 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:29:04 | 47.57 | 41.27 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:29:04 | 47.90 | 41.60 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:29:04 | 48.23 | 41.93 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:29:05 | 48.56 | 42.26 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 22:29:05 | 48.88 | 42.58 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 22:29:05 | 49.21 | 42.91 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:29:06 | 49.54 | 43.24 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 22:29:06 | 49.87 | 43.57 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 22:29:06 | 50.20 | 43.90 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:29:07 | 50.53 | 44.23 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:29:07 | 50.85 | 44.55 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 22:29:07 | 51.18 | 44.88 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:29:19 | 51.51 | 45.21 | 15 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 22:29:20 | 51.84 | 45.54 | 59 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 22:29:20 | 52.17 | 45.87 | 199 | 1.14 | 0.29 | 10.9 |
| 5/2/2015 22:29:21 | 52.49 | 46.19 | 352 | 1.14 | 0.29 | 19.2 |
| 5/2/2015 22:29:36 | 52.82 | 46.52 | 74 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 22:29:36 | 53.15 | 46.85 | 165 | 1.14 | 0.29 | 9.0 |
| 5/2/2015 22:29:43 | 53.48 | 47.18 | 12 | 1.14 | 0.29 | 0.6 |
| 5/2/2015 22:29:48 | 53.81 | 47.51 | 88 | 1.14 | 0.29 | 4.8 |
| 5/2/2015 22:29:51 | 54.13 | 47.83 | 102 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 22:29:53 | 54.46 | 48.16 | 142 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 22:30:30 | 54.79 | 48.49 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 22:30:36 | 55.12 | 48.82 | 65 | 1.14 | 0.29 | 3.5 |
| 5/2/2015 22:30:44 | 55.45 | 49.15 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 22:30:53 | 55.77 | 49.47 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 22:31:04 | 56.10 | 49.80 | 26 | 1.14 | 0.29 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 22:31:13 | 56.40 | 50.10 | 38 | 1.14 | 0.29 | 2.1 | |

## P135 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:27:47

**End Date:**
5/2/2015 22:32:46

**Operator Note:**
'6.3 6.1 c Auto Complete'

**Northing:**
349,383.30

**Easting:**
225,239.70

**Tide (feet):**
6.30



## Hole: P136 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:00:43 | 34.12 | 30.22 | 1,381 | 0.54 | 0.17 | 75.5 |
| 5/2/2015 21:00:43 | 34.45 | 30.55 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/2/2015 21:00:44 | 34.78 | 30.88 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/2/2015 21:00:43 | 35.11 | 31.21 | 1,378 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:44 | 35.43 | 31.53 | 1,378 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:44 | 35.76 | 31.86 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:00:44 | 36.09 | 32.19 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:00:45 | 36.42 | 32.52 | 1,378 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:45 | 36.75 | 32.85 | 1,378 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:45 | 37.07 | 33.17 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/2/2015 21:00:45 | 37.40 | 33.50 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/2/2015 21:00:46 | 37.73 | 33.83 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:46 | 38.06 | 34.16 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:46 | 38.39 | 34.49 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:00:46 | 38.71 | 34.81 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:00:46 | 39.04 | 35.14 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:47 | 39.37 | 35.47 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:47 | 39.70 | 35.80 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:48 | 40.03 | 36.13 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:48 | 40.35 | 36.45 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:48 | 40.68 | 36.78 | 1,379 | 0.54 | 0.17 | 75.4 |
| 5/2/2015 21:00:48 | 41.01 | 37.11 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/2/2015 21:00:49 | 41.34 | 37.44 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/2/2015 21:00:49 | 41.67 | 37.77 | 1,376 | 0.54 | 0.17 | 75.2 |
| 5/2/2015 21:00:49 | 41.99 | 38.09 | 1,376 | 0.54 | 0.17 | 75.2 |
| 5/2/2015 21:00:49 | 42.32 | 38.42 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/2/2015 21:00:50 | 42.65 | 38.75 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/2/2015 21:00:50 | 42.98 | 39.08 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/2/2015 21:00:57 | 43.31 | 39.41 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 21:00:57 | 43.64 | 39.74 | 173 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 21:00:58 | 43.96 | 40.06 | 173 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 21:00:58 | 44.29 | 40.39 | 456 | 0.54 | 0.17 | 24.9 |
| 5/2/2015 21:00:58 | 44.62 | 40.72 | 456 | 0.54 | 0.17 | 24.9 |
| 5/2/2015 21:00:59 | 44.95 | 41.05 | 730 | 0.54 | 0.17 | 39.9 |
| 5/2/2015 21:00:59 | 45.28 | 41.38 | 730 | 0.54 | 0.17 | 39.9 |
| 5/2/2015 21:00:59 | 45.60 | 41.70 | 1,012 | 0.54 | 0.17 | 55.4 |
| 5/2/2015 21:00:59 | 45.93 | 42.03 | 1,012 | 0.54 | 0.17 | 55.4 |
| 5/2/2015 21:01:00 | 46.26 | 42.36 | 1,287 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 21:01:00 | 46.59 | 42.69 | 1,287 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 21:01:00 | 46.92 | 43.02 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 21:01:00 | 47.24 | 43.34 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 21:01:01 | 47.57 | 43.67 | 1,388 | 0.54 | 0.17 | 75.9 |
| 5/2/2015 21:01:01 | 47.90 | 44.00 | 1,388 | 0.54 | 0.17 | 75.9 |
| 5/2/2015 21:01:01 | 48.23 | 44.33 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 21:01:01 | 48.56 | 44.66 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 21:01:02 | 48.88 | 44.98 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/2/2015 21:01:02 | 49.21 | 45.31 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/2/2015 21:01:02 | 49.54 | 45.64 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:01:03 | 49.87 | 45.97 | 1,246 | 0.54 | 0.17 | 68.2 |
| 5/2/2015 21:01:14 | 50.20 | 46.30 | 66 | 0.54 | 0.17 | 3.6 |
| 5/2/2015 21:01:21 | 50.53 | 46.63 | 55 | 0.54 | 0.17 | 3.0 |
| 5/2/2015 21:01:25 | 50.85 | 46.95 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 21:01:27 | 51.18 | 47.28 | 169 | 0.54 | 0.17 | 9.2 |
| 5/2/2015 21:01:29 | 51.51 | 47.61 | 238 | 0.54 | 0.17 | 13.0 |
| 5/2/2015 21:01:30 | 51.84 | 47.94 | 229 | 0.54 | 0.17 | 12.5 |
| 5/2/2015 21:01:32 | 52.17 | 48.27 | 198 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 21:01:37 | 52.49 | 48.59 | 66 | 0.54 | 0.17 | 3.6 |
| 5/2/2015 21:01:39 | 52.82 | 48.92 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 21:01:40 | 53.15 | 49.25 | 280 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 21:01:42 | 53.48 | 49.58 | 281 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 21:01:45 | 53.81 | 49.91 | 99 | 0.54 | 0.17 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 21:01:46 | 54.13 | 50.23 | 189 | 0.54 | 0.17 | 10.4 |
| 5/2/2015 | 21:01:59 | 54.46 | 50.56 | 50 | 0.54 | 0.17 | 2.7 |
| 5/2/2015 | 21:02:07 | 54.79 | 50.89 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 21:02:14 | 55.12 | 51.22 | 46 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 | 21:02:22 | 55.45 | 51.55 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 21:02:27 | 55.77 | 51.87 | 90 | 0.54 | 0.17 | 4.9 |
| 5/2/2015 | 21:02:37 | 56.10 | 52.20 | 28 | 0.54 | 0.17 | 1.5 |
| 5/2/2015 | 21:02:47 | 56.43 | 52.53 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 21:02:58 | 56.76 | 52.86 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 21:03:10 | 57.09 | 53.19 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 21:03:12 | 57.15 | 53.25 | 32 | 0.54 | 0.17 | 1.7 |

## P136 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:48:52

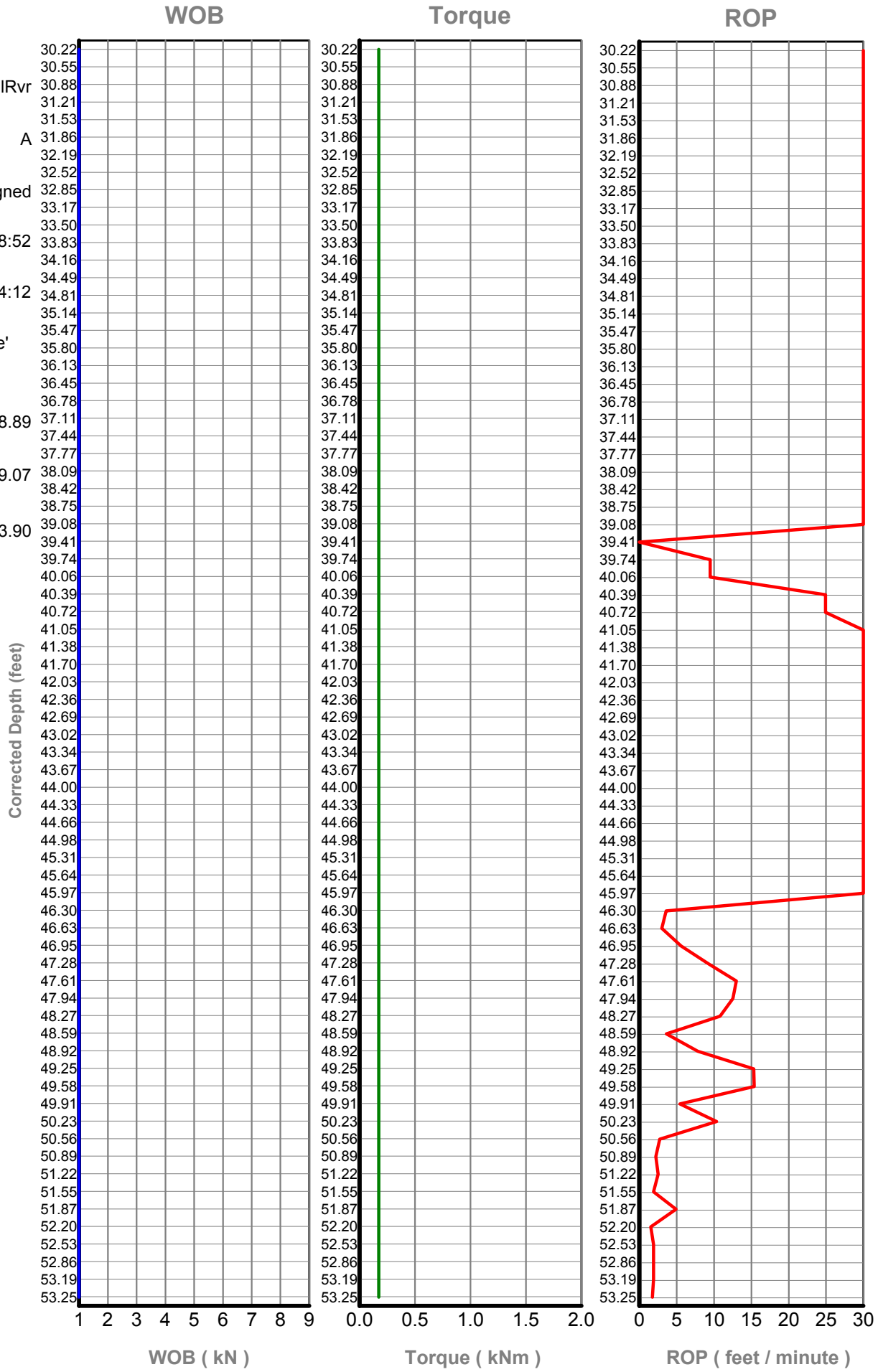
**End Date:**
5/2/2015 21:04:12

**Operator Note:**
'3.9 3.8 a Auto Complete'

**Northing:**
349,428.89

**Easting:**
225,309.07

**Tide (feet):**
3.90



## Hole: P137 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:01:43 | 34.45 | 30.15 | 1,266 | 0.33 | 0.40 | 69.2 |
| 5/2/2015 21:01:44 | 34.78 | 30.48 | 1,269 | 0.33 | 0.40 | 69.4 |
| 5/2/2015 21:01:44 | 35.11 | 30.81 | 1,269 | 0.33 | 0.40 | 69.4 |
| 5/2/2015 21:01:44 | 35.43 | 31.13 | 1,263 | 0.33 | 0.41 | 69.1 |
| 5/2/2015 21:01:45 | 35.76 | 31.46 | 1,263 | 0.33 | 0.41 | 69.1 |
| 5/2/2015 21:01:45 | 36.09 | 31.79 | 1,253 | 0.33 | 0.39 | 68.5 |
| 5/2/2015 21:01:45 | 36.42 | 32.12 | 1,253 | 0.33 | 0.39 | 68.5 |
| 5/2/2015 21:01:45 | 36.75 | 32.45 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:01:46 | 37.07 | 32.77 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:01:46 | 37.40 | 33.10 | 1,260 | 0.33 | 0.40 | 68.9 |
| 5/2/2015 21:01:47 | 37.73 | 33.43 | 1,260 | 0.33 | 0.40 | 68.9 |
| 5/2/2015 21:01:47 | 38.06 | 33.76 | 1,255 | 0.33 | 0.40 | 68.6 |
| 5/2/2015 21:01:47 | 38.39 | 34.09 | 1,255 | 0.33 | 0.39 | 68.6 |
| 5/2/2015 21:01:48 | 38.71 | 34.41 | 1,255 | 0.33 | 0.39 | 68.6 |
| 5/2/2015 21:01:48 | 39.04 | 34.74 | 1,258 | 0.32 | 0.40 | 68.8 |
| 5/2/2015 21:01:48 | 39.37 | 35.07 | 1,258 | 0.32 | 0.40 | 68.8 |
| 5/2/2015 21:01:48 | 39.70 | 35.40 | 1,274 | 0.33 | 0.40 | 69.7 |
| 5/2/2015 21:01:49 | 40.03 | 35.73 | 1,274 | 0.33 | 0.40 | 69.7 |
| 5/2/2015 21:01:49 | 40.35 | 36.05 | 1,263 | 0.33 | 0.39 | 69.1 |
| 5/2/2015 21:01:49 | 40.68 | 36.38 | 1,263 | 0.33 | 0.39 | 69.1 |
| 5/2/2015 21:01:49 | 41.01 | 36.71 | 1,268 | 0.33 | 0.40 | 69.3 |
| 5/2/2015 21:01:50 | 41.34 | 37.04 | 1,268 | 0.33 | 0.40 | 69.3 |
| 5/2/2015 21:01:50 | 41.67 | 37.37 | 1,260 | 0.33 | 0.40 | 68.9 |
| 5/2/2015 21:01:50 | 41.99 | 37.69 | 1,263 | 0.33 | 0.41 | 69.1 |
| 5/2/2015 21:01:51 | 42.32 | 38.02 | 1,263 | 0.33 | 0.41 | 69.1 |
| 5/2/2015 21:01:51 | 42.65 | 38.35 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 21:01:51 | 42.98 | 38.68 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 21:01:51 | 43.31 | 39.01 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 21:01:52 | 43.64 | 39.34 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 21:01:52 | 43.96 | 39.66 | 1,253 | 0.33 | 0.39 | 68.5 |
| 5/2/2015 21:01:52 | 44.29 | 39.99 | 1,253 | 0.33 | 0.39 | 68.5 |
| 5/2/2015 21:01:52 | 44.62 | 40.32 | 1,235 | 0.33 | 0.40 | 67.5 |
| 5/2/2015 21:01:53 | 44.95 | 40.65 | 1,235 | 0.33 | 0.40 | 67.5 |
| 5/2/2015 21:01:53 | 45.28 | 40.98 | 1,235 | 0.33 | 0.40 | 67.5 |
| 5/2/2015 21:01:53 | 45.60 | 41.30 | 1,250 | 0.33 | 0.40 | 68.4 |
| 5/2/2015 21:01:54 | 45.93 | 41.63 | 1,250 | 0.33 | 0.40 | 68.4 |
| 5/2/2015 21:01:54 | 46.26 | 41.96 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:01:54 | 46.59 | 42.29 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:01:54 | 46.92 | 42.62 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 21:01:55 | 47.24 | 42.94 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 21:01:55 | 47.57 | 43.27 | 1,248 | 0.33 | 0.41 | 68.2 |
| 5/2/2015 21:01:55 | 47.90 | 43.60 | 1,248 | 0.33 | 0.41 | 68.2 |
| 5/2/2015 21:01:55 | 48.23 | 43.93 | 1,265 | 0.33 | 0.40 | 69.2 |
| 5/2/2015 21:01:56 | 48.56 | 44.26 | 1,265 | 0.33 | 0.40 | 69.2 |
| 5/2/2015 21:01:56 | 48.88 | 44.58 | 1,244 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 21:01:56 | 49.21 | 44.91 | 1,257 | 0.33 | 0.41 | 68.8 |
| 5/2/2015 21:01:57 | 49.54 | 45.24 | 1,257 | 0.33 | 0.41 | 68.8 |
| 5/2/2015 21:01:57 | 49.87 | 45.57 | 1,255 | 0.30 | 0.44 | 68.6 |
| 5/2/2015 21:02:01 | 50.20 | 45.90 | 0 | 2.93 | 0.42 | 0.0 |
| 5/2/2015 21:02:03 | 50.53 | 46.23 | 145 | 5.55 | 0.50 | 7.9 |
| 5/2/2015 21:02:06 | 50.85 | 46.55 | 97 | 6.26 | 0.58 | 5.3 |
| 5/2/2015 21:02:08 | 51.18 | 46.88 | 191 | 3.73 | 0.48 | 10.4 |
| 5/2/2015 21:02:09 | 51.51 | 47.21 | 228 | 4.26 | 0.49 | 12.4 |
| 5/2/2015 21:02:11 | 51.84 | 47.54 | 229 | 4.23 | 0.49 | 12.5 |
| 5/2/2015 21:02:12 | 52.17 | 47.87 | 217 | 4.04 | 0.47 | 11.8 |
| 5/2/2015 21:02:13 | 52.49 | 48.19 | 242 | 3.48 | 0.48 | 13.3 |
| 5/2/2015 21:02:20 | 52.82 | 48.52 | 0 | 3.53 | 0.44 | 0.0 |
| 5/2/2015 21:02:21 | 53.15 | 48.85 | 119 | 3.42 | 0.49 | 6.5 |
| 5/2/2015 21:02:23 | 53.48 | 49.18 | 193 | 3.60 | 0.49 | 10.6 |
| 5/2/2015 21:02:25 | 53.81 | 49.51 | 178 | 3.76 | 0.48 | 9.7 |
| 5/2/2015 21:02:26 | 54.13 | 49.83 | 224 | 3.22 | 0.48 | 12.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:02:28 | 54.46 | 50.16 | 241 | 3.08 | 0.48 | 13.2 |
| 5/2/2015 21:02:39 | 54.79 | 50.49 | 0 | 2.84 | 0.43 | 0.0 |
| 5/2/2015 21:02:39 | 55.12 | 50.82 | 0 | 2.83 | 0.46 | 0.0 |
| 5/2/2015 21:02:41 | 55.45 | 51.15 | 206 | 3.01 | 0.49 | 11.3 |
| 5/2/2015 21:02:43 | 55.77 | 51.47 | 182 | 3.62 | 0.49 | 9.9 |
| 5/2/2015 21:02:44 | 56.10 | 51.80 | 184 | 4.92 | 0.48 | 10.1 |
| 5/2/2015 21:02:46 | 56.43 | 52.13 | 221 | 4.04 | 0.47 | 12.1 |
| 5/2/2015 21:02:47 | 56.76 | 52.46 | 237 | 3.64 | 0.48 | 13.0 |
| 5/2/2015 21:02:50 | 57.09 | 52.79 | 182 | 6.28 | 0.50 | 10.0 |
| 5/2/2015 21:03:04 | 57.41 | 53.11 | 9 | 3.41 | 0.47 | 0.5 |
| 5/2/2015 21:03:05 | 57.74 | 53.44 | 147 | 4.00 | 0.48 | 8.0 |
| 5/2/2015 21:03:06 | 58.07 | 53.77 | 189 | 3.74 | 0.46 | 10.3 |
| 5/2/2015 21:03:07 | 58.40 | 54.10 | 309 | 4.02 | 0.47 | 16.9 |
| 5/2/2015 21:03:08 | 58.73 | 54.43 | 342 | 3.93 | 0.50 | 18.7 |
| 5/2/2015 21:03:08 | 58.77 | 54.47 | 342 | 3.93 | 0.50 | 18.7 |

## P137 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:00:09

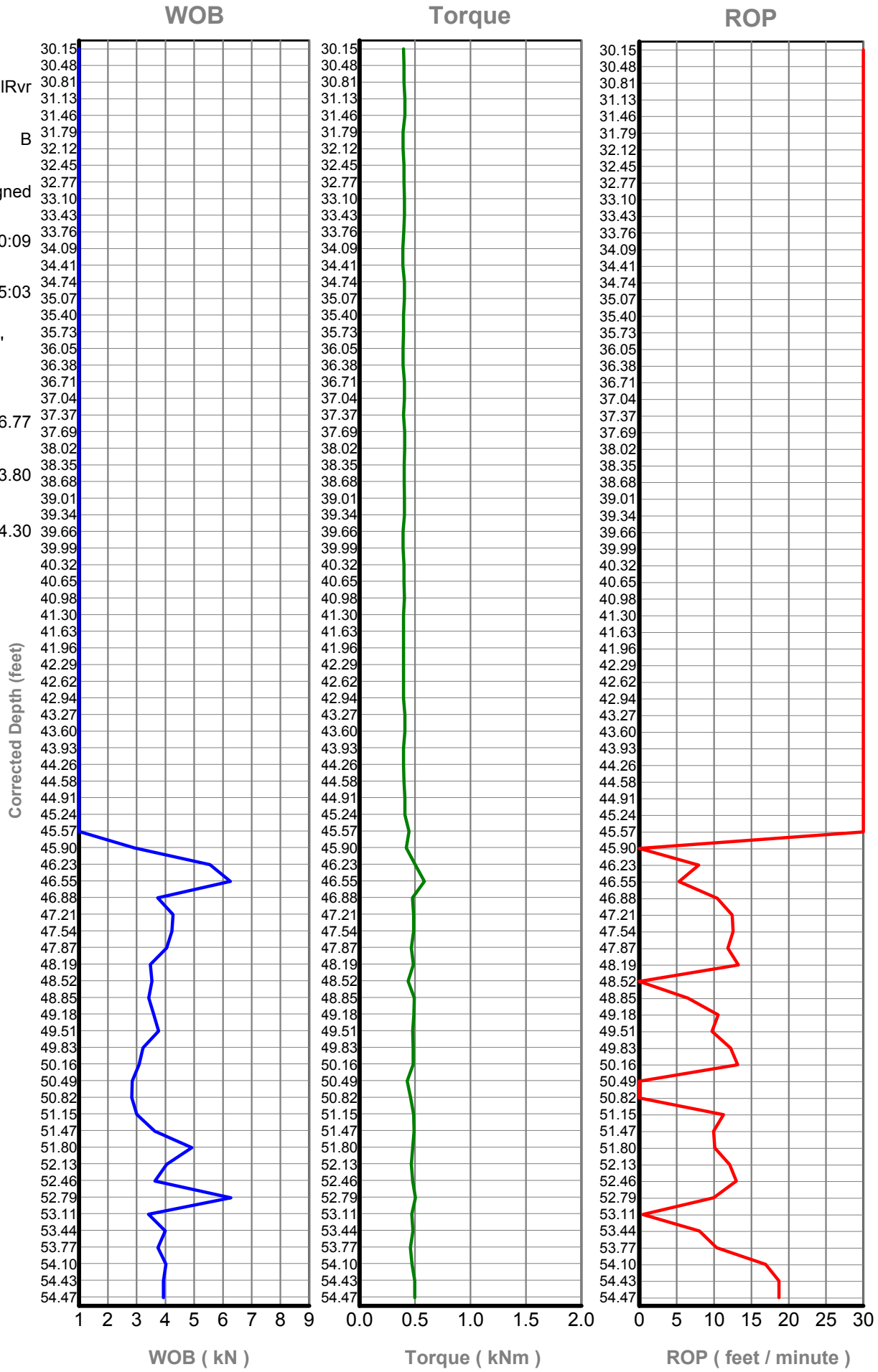
**End Date:**
5/2/2015 21:05:03

**Operator Note:**
'4.3 3.8b Auto Complete'

**Northing:**
349,466.77

**Easting:**
225,373.80

**Tide (feet):**
4.30



## Hole: P138 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:00:26 | 34.45 | 30.15 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:00:26 | 34.78 | 30.48 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:00:27 | 35.11 | 30.81 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:00:27 | 35.43 | 31.13 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:00:27 | 35.76 | 31.46 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:28 | 36.09 | 31.79 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:00:28 | 36.42 | 32.12 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:00:28 | 36.75 | 32.45 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:29 | 37.07 | 32.77 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:00:29 | 37.40 | 33.10 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 21:00:29 | 37.73 | 33.43 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:30 | 38.06 | 33.76 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:30 | 38.39 | 34.09 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:30 | 38.71 | 34.41 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:31 | 39.04 | 34.74 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:31 | 39.37 | 35.07 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:31 | 39.70 | 35.40 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:32 | 40.03 | 35.73 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:32 | 40.35 | 36.05 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 21:00:32 | 40.68 | 36.38 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 21:00:33 | 41.01 | 36.71 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 21:00:33 | 41.34 | 37.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:00:34 | 41.67 | 37.37 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:00:34 | 41.99 | 37.69 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:00:34 | 42.32 | 38.02 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:00:35 | 42.65 | 38.35 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:00:35 | 42.98 | 38.68 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:00:35 | 43.31 | 39.01 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:00:36 | 43.64 | 39.34 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:00:36 | 43.96 | 39.66 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:00:36 | 44.29 | 39.99 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 21:00:37 | 44.62 | 40.32 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:37 | 44.95 | 40.65 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 21:00:37 | 45.28 | 40.98 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:00:38 | 45.60 | 41.30 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:00:38 | 45.93 | 41.63 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:00:38 | 46.26 | 41.96 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:00:39 | 46.59 | 42.29 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 21:00:39 | 46.92 | 42.62 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 21:00:39 | 47.24 | 42.94 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 21:00:40 | 47.57 | 43.27 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:00:40 | 47.90 | 43.60 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:00:40 | 48.23 | 43.93 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 21:00:41 | 48.56 | 44.26 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:00:41 | 48.88 | 44.58 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:00:53 | 49.21 | 44.91 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:01:00 | 49.54 | 45.24 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:01:06 | 49.87 | 45.57 | 82 | 1.14 | 0.29 | 4.5 |
| 5/2/2015 21:01:08 | 50.20 | 45.90 | 242 | 1.14 | 0.29 | 13.2 |
| 5/2/2015 21:01:10 | 50.53 | 46.23 | 240 | 1.14 | 0.29 | 13.1 |
| 5/2/2015 21:01:10 | 50.85 | 46.55 | 363 | 1.14 | 0.29 | 19.9 |
| 5/2/2015 21:01:28 | 51.18 | 46.88 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 21:01:28 | 51.51 | 47.21 | 98 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 21:01:29 | 51.84 | 47.54 | 266 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 21:01:30 | 52.17 | 47.87 | 378 | 1.14 | 0.29 | 20.7 |
| 5/2/2015 21:01:31 | 52.49 | 48.19 | 398 | 1.14 | 0.29 | 21.8 |
| 5/2/2015 21:01:37 | 52.82 | 48.52 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:01:38 | 53.15 | 48.85 | 115 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 21:01:39 | 53.48 | 49.18 | 270 | 1.14 | 0.29 | 14.8 |
| 5/2/2015 21:01:40 | 53.81 | 49.51 | 370 | 1.14 | 0.29 | 20.2 |
| 5/2/2015 21:01:40 | 54.13 | 49.83 | 426 | 1.14 | 0.29 | 23.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:01:49 | 54.46 | 50.16 | 67 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 21:01:50 | 54.79 | 50.49 | 188 | 1.14 | 0.29 | 10.3 |
| 5/2/2015 21:01:52 | 55.12 | 50.82 | 257 | 1.14 | 0.29 | 14.0 |
| 5/2/2015 21:01:53 | 55.45 | 51.15 | 221 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 21:01:57 | 55.77 | 51.47 | 24 | 1.14 | 0.29 | 1.3 |
| 5/2/2015 21:01:58 | 56.10 | 51.80 | 165 | 1.14 | 0.29 | 9.0 |
| 5/2/2015 21:01:59 | 56.43 | 52.13 | 311 | 1.14 | 0.29 | 17.0 |
| 5/2/2015 21:02:00 | 56.76 | 52.46 | 440 | 1.14 | 0.29 | 24.1 |
| 5/2/2015 21:02:00 | 57.09 | 52.79 | 416 | 1.14 | 0.29 | 22.7 |
| 5/2/2015 21:02:01 | 57.41 | 53.11 | 442 | 1.14 | 0.29 | 24.1 |
| 5/2/2015 21:02:03 | 57.74 | 53.44 | 271 | 1.14 | 0.29 | 14.8 |
| 5/2/2015 21:02:05 | 58.07 | 53.77 | 198 | 1.14 | 0.29 | 10.9 |
| 5/2/2015 21:02:06 | 58.40 | 54.10 | 182 | 1.14 | 0.29 | 10.0 |
| 5/2/2015 21:02:07 | 58.73 | 54.43 | 282 | 1.14 | 0.29 | 15.4 |
| 5/2/2015 21:02:08 | 58.90 | 54.60 | 245 | 1.14 | 0.29 | 13.4 |

## P138 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:59:17

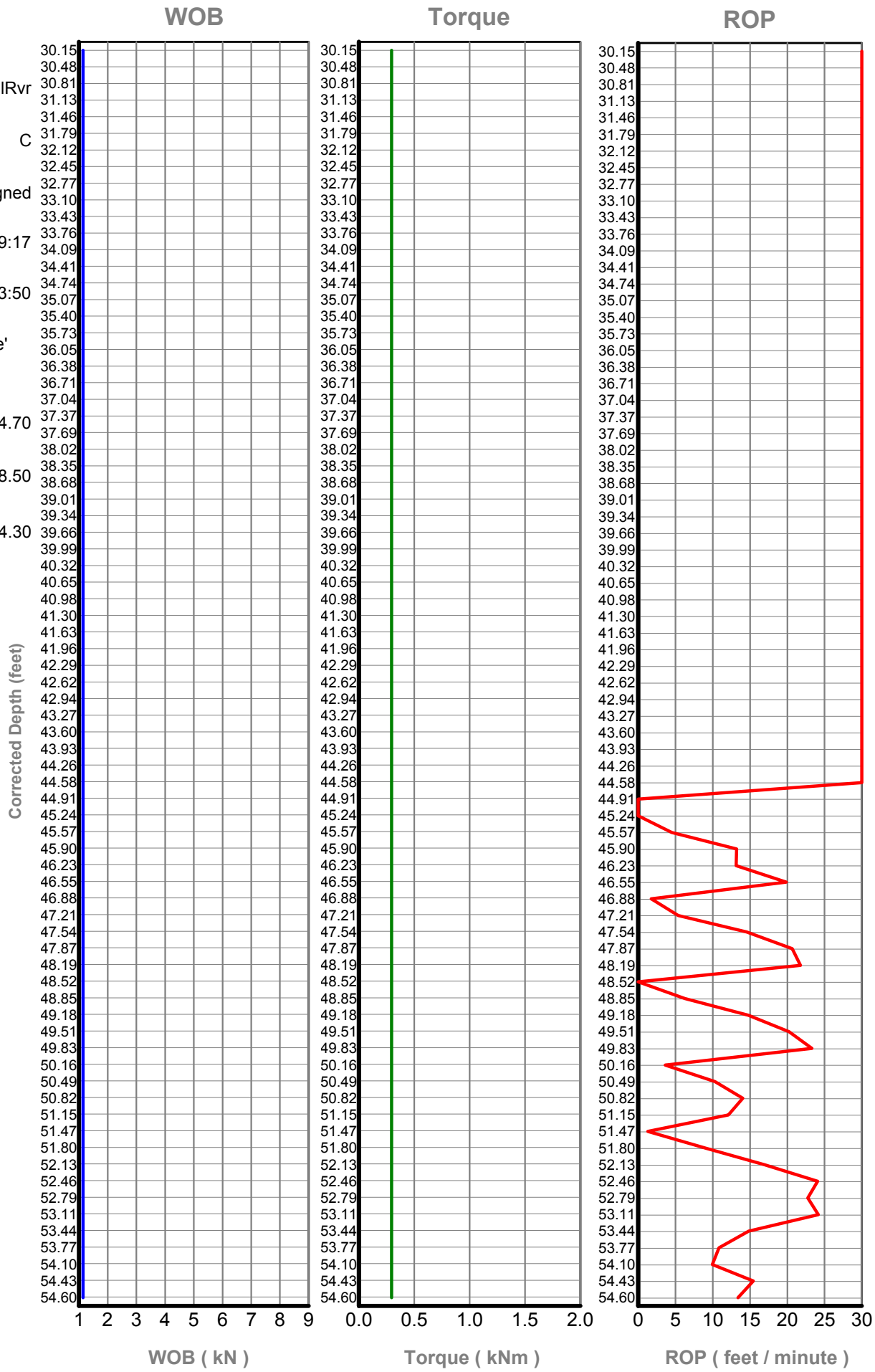
**End Date:**
5/2/2015 21:03:50

**Operator Note:**
'4.3 3.8 c Auto Complete'

**Northing:**
349,504.70

**Easting:**
225,438.50

**Tide (feet):**
4.30



## Hole: P139 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:14:58 | 32.81 | 30.21 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:14:59 | 33.14 | 30.54 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:14:59 | 33.46 | 30.86 | 1,003 | 0.54 | 0.17 | 54.8 |
| 5/2/2015 16:14:59 | 33.79 | 31.19 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:15:00 | 34.12 | 31.52 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:15:00 | 34.45 | 31.85 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:15:00 | 34.78 | 32.18 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:01 | 35.11 | 32.51 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:01 | 35.43 | 32.83 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:01 | 35.76 | 33.16 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:02 | 36.09 | 33.49 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:02 | 36.42 | 33.82 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:15:02 | 36.75 | 34.15 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 16:15:03 | 37.07 | 34.47 | 987 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 16:15:03 | 37.40 | 34.80 | 987 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 16:15:03 | 37.73 | 35.13 | 996 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 16:15:04 | 38.06 | 35.46 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:15:05 | 38.39 | 35.79 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:15:04 | 38.71 | 36.11 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:15:05 | 39.04 | 36.44 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:15:06 | 39.37 | 36.77 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:15:06 | 39.70 | 37.10 | 990 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:15:06 | 40.03 | 37.43 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 16:15:07 | 40.35 | 37.75 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 16:15:07 | 40.68 | 38.08 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 16:15:07 | 41.01 | 38.41 | 1,002 | 0.54 | 0.17 | 54.8 |
| 5/2/2015 16:15:08 | 41.34 | 38.74 | 1,005 | 0.54 | 0.17 | 55.0 |
| 5/2/2015 16:15:08 | 41.67 | 39.07 | 1,005 | 0.54 | 0.17 | 55.0 |
| 5/2/2015 16:15:08 | 41.99 | 39.39 | 1,008 | 0.54 | 0.17 | 55.1 |
| 5/2/2015 16:15:09 | 42.32 | 39.72 | 1,002 | 0.54 | 0.17 | 54.8 |
| 5/2/2015 16:15:09 | 42.65 | 40.05 | 1,002 | 0.54 | 0.17 | 54.8 |
| 5/2/2015 16:15:09 | 42.98 | 40.38 | 999 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 16:15:10 | 43.31 | 40.71 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 16:15:10 | 43.64 | 41.04 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 16:15:10 | 43.96 | 41.36 | 984 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:15:11 | 44.29 | 41.69 | 984 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:15:11 | 44.62 | 42.02 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 16:15:12 | 44.95 | 42.35 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 16:15:12 | 45.28 | 42.68 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:15:12 | 45.60 | 43.00 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:15:13 | 45.93 | 43.33 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:15:13 | 46.26 | 43.66 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 16:15:13 | 46.59 | 43.99 | 959 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 16:15:27 | 46.92 | 44.32 | 68 | 0.54 | 0.17 | 3.7 |
| 5/2/2015 16:15:27 | 47.24 | 44.64 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 16:15:28 | 47.57 | 44.97 | 283 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 16:15:29 | 47.90 | 45.30 | 466 | 0.54 | 0.17 | 25.5 |
| 5/2/2015 16:15:30 | 48.23 | 45.63 | 503 | 0.54 | 0.17 | 27.5 |
| 5/2/2015 16:15:31 | 48.56 | 45.96 | 474 | 0.54 | 0.17 | 25.9 |
| 5/2/2015 16:15:32 | 48.88 | 46.28 | 402 | 0.54 | 0.17 | 22.0 |
| 5/2/2015 16:15:33 | 49.21 | 46.61 | 332 | 0.54 | 0.17 | 18.1 |
| 5/2/2015 16:15:33 | 49.54 | 46.94 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 16:15:34 | 49.87 | 47.27 | 436 | 0.54 | 0.17 | 23.8 |
| 5/2/2015 16:15:35 | 50.20 | 47.60 | 433 | 0.54 | 0.17 | 23.7 |
| 5/2/2015 16:15:37 | 50.53 | 47.93 | 250 | 0.54 | 0.17 | 13.7 |
| 5/2/2015 16:15:39 | 50.85 | 48.25 | 230 | 0.54 | 0.17 | 12.6 |
| 5/2/2015 16:15:44 | 51.18 | 48.58 | 9 | 0.54 | 0.17 | 0.5 |
| 5/2/2015 16:15:45 | 51.51 | 48.91 | 157 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 16:15:45 | 51.84 | 49.24 | 304 | 0.54 | 0.17 | 16.6 |
| 5/2/2015 16:15:47 | 52.17 | 49.57 | 476 | 0.54 | 0.17 | 26.1 |
| 5/2/2015 16:15:47 | 52.49 | 49.89 | 442 | 0.54 | 0.17 | 24.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:15:49 | 52.82 | 50.22 | 244 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 | 16:15:51 | 53.15 | 50.55 | 189 | 0.54 | 0.17 | 10.4 |
| 5/2/2015 | 16:15:52 | 53.48 | 50.88 | 229 | 0.54 | 0.17 | 12.5 |
| 5/2/2015 | 16:15:54 | 53.81 | 51.21 | 289 | 0.54 | 0.17 | 15.8 |
| 5/2/2015 | 16:15:55 | 54.13 | 51.53 | 338 | 0.54 | 0.17 | 18.5 |
| 5/2/2015 | 16:15:56 | 54.46 | 51.86 | 358 | 0.54 | 0.17 | 19.6 |
| 5/2/2015 | 16:15:57 | 54.79 | 52.19 | 358 | 0.54 | 0.17 | 19.6 |
| 5/2/2015 | 16:15:58 | 55.12 | 52.52 | 358 | 0.54 | 0.17 | 19.6 |
| 5/2/2015 | 16:15:59 | 55.45 | 52.85 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 | 16:16:00 | 55.77 | 53.17 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 | 16:16:01 | 56.10 | 53.50 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 | 16:16:02 | 56.43 | 53.83 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 | 16:16:03 | 56.76 | 54.16 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 | 16:16:04 | 57.09 | 54.49 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 | 16:16:05 | 57.41 | 54.81 | 349 | 0.54 | 0.17 | 19.1 |
| 5/2/2015 | 16:16:06 | 57.74 | 55.14 | 337 | 0.54 | 0.17 | 18.5 |
| 5/2/2015 | 16:16:07 | 57.90 | 55.30 | 332 | 0.54 | 0.17 | 18.1 |

## P139 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 16:13:40

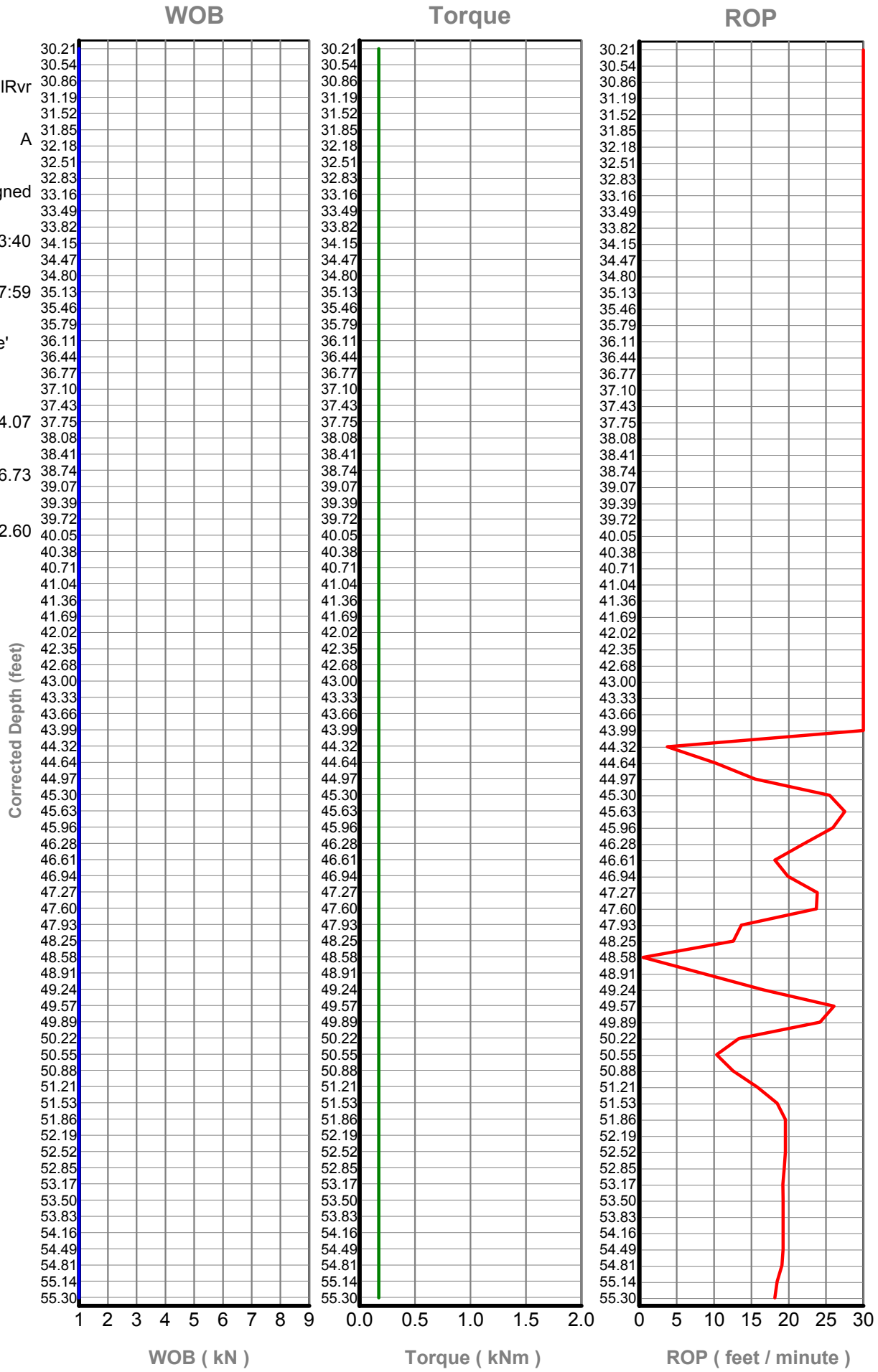
**End Date:**
5/2/2015 16:17:59

**Operator Note:**
'2.6 2.8 a Auto Complete'

**Northing:**
349,544.07

**Easting:**
225,496.73

**Tide (feet):**
2.60



## Hole: P14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:42:34 | 34.12 | 30.02 | 1,312 | 0.29 | 0.40 | 71.8 |
| 5/2/2015 14:42:34 | 34.45 | 30.35 | 1,318 | 0.25 | 0.38 | 72.1 |
| 5/2/2015 14:42:34 | 34.78 | 30.68 | 1,312 | 0.27 | 0.38 | 71.8 |
| 5/2/2015 14:42:35 | 35.11 | 31.01 | 1,312 | 0.27 | 0.38 | 71.8 |
| 5/2/2015 14:42:35 | 35.43 | 31.33 | 1,323 | 0.27 | 0.40 | 72.3 |
| 5/2/2015 14:42:35 | 35.76 | 31.66 | 1,323 | 0.27 | 0.40 | 72.3 |
| 5/2/2015 14:42:35 | 36.09 | 31.99 | 1,310 | 0.27 | 0.39 | 71.7 |
| 5/2/2015 14:42:36 | 36.42 | 32.32 | 1,310 | 0.27 | 0.39 | 71.7 |
| 5/2/2015 14:42:36 | 36.75 | 32.65 | 1,313 | 0.27 | 0.40 | 71.8 |
| 5/2/2015 14:42:36 | 37.07 | 32.97 | 1,313 | 0.27 | 0.40 | 71.8 |
| 5/2/2015 14:42:36 | 37.40 | 33.30 | 1,318 | 0.27 | 0.39 | 72.1 |
| 5/2/2015 14:42:37 | 37.73 | 33.63 | 1,318 | 0.27 | 0.39 | 72.1 |
| 5/2/2015 14:42:37 | 38.06 | 33.96 | 1,313 | 0.27 | 0.38 | 71.8 |
| 5/2/2015 14:42:37 | 38.39 | 34.29 | 1,313 | 0.27 | 0.38 | 71.8 |
| 5/2/2015 14:42:37 | 38.71 | 34.61 | 1,302 | 0.26 | 0.40 | 71.2 |
| 5/2/2015 14:42:38 | 39.04 | 34.94 | 1,302 | 0.26 | 0.40 | 71.2 |
| 5/2/2015 14:42:38 | 39.37 | 35.27 | 1,323 | 0.26 | 0.40 | 72.4 |
| 5/2/2015 14:42:38 | 39.70 | 35.60 | 1,323 | 0.26 | 0.40 | 72.4 |
| 5/2/2015 14:42:38 | 40.03 | 35.93 | 1,318 | 0.28 | 0.40 | 72.1 |
| 5/2/2015 14:42:39 | 40.35 | 36.25 | 1,318 | 0.28 | 0.40 | 72.1 |
| 5/2/2015 14:42:39 | 40.68 | 36.58 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/2/2015 14:42:40 | 41.01 | 36.91 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/2/2015 14:42:40 | 41.34 | 37.24 | 1,321 | 0.27 | 0.39 | 72.2 |
| 5/2/2015 14:42:40 | 41.67 | 37.57 | 1,321 | 0.27 | 0.39 | 72.2 |
| 5/2/2015 14:42:40 | 41.99 | 37.89 | 1,327 | 0.27 | 0.38 | 72.6 |
| 5/2/2015 14:42:41 | 42.32 | 38.22 | 1,327 | 0.27 | 0.38 | 72.6 |
| 5/2/2015 14:42:41 | 42.65 | 38.55 | 1,321 | 0.25 | 0.43 | 72.2 |
| 5/2/2015 14:42:53 | 42.98 | 38.88 | 78 | 3.78 | 0.47 | 4.3 |
| 5/2/2015 14:42:55 | 43.31 | 39.21 | 163 | 3.03 | 0.45 | 8.9 |
| 5/2/2015 14:42:59 | 43.64 | 39.54 | 72 | 3.35 | 0.46 | 4.0 |
| 5/2/2015 14:43:00 | 43.96 | 39.86 | 158 | 3.67 | 0.47 | 8.6 |
| 5/2/2015 14:43:11 | 44.29 | 40.19 | 0 | 4.81 | 0.50 | 0.0 |
| 5/2/2015 14:43:12 | 44.62 | 40.52 | 147 | 2.63 | 0.47 | 8.1 |
| 5/2/2015 14:43:16 | 44.95 | 40.85 | 0 | 2.57 | 0.43 | 0.0 |
| 5/2/2015 14:43:20 | 45.28 | 41.18 | 92 | 3.51 | 0.49 | 5.0 |
| 5/2/2015 14:43:23 | 45.60 | 41.50 | 136 | 2.44 | 0.44 | 7.4 |
| 5/2/2015 14:43:23 | 45.93 | 41.83 | 198 | 3.73 | 0.48 | 10.8 |
| 5/2/2015 14:43:28 | 46.26 | 42.16 | 9 | 2.40 | 0.47 | 0.5 |
| 5/2/2015 14:43:38 | 46.59 | 42.49 | 6 | 4.98 | 0.45 | 0.3 |
| 5/2/2015 14:43:39 | 46.92 | 42.82 | 180 | 2.27 | 0.44 | 9.9 |
| 5/2/2015 14:43:39 | 47.24 | 43.14 | 303 | 3.88 | 0.45 | 16.6 |
| 5/2/2015 14:44:06 | 47.57 | 43.47 | 9 | 4.04 | 0.49 | 0.5 |
| 5/2/2015 14:44:07 | 47.90 | 43.80 | 146 | 2.44 | 0.46 | 8.0 |
| 5/2/2015 14:44:15 | 48.23 | 44.13 | 35 | 2.77 | 0.43 | 1.9 |
| 5/2/2015 14:44:16 | 48.56 | 44.46 | 153 | 4.33 | 0.48 | 8.4 |
| 5/2/2015 14:44:21 | 48.88 | 44.78 | 17 | 3.22 | 0.46 | 0.9 |
| 5/2/2015 14:44:22 | 49.21 | 45.11 | 153 | 3.64 | 0.46 | 8.3 |
| 5/2/2015 14:44:24 | 49.54 | 45.44 | 288 | 3.38 | 0.48 | 15.7 |
| 5/2/2015 14:44:29 | 49.87 | 45.77 | 52 | 2.74 | 0.48 | 2.8 |
| 5/2/2015 14:44:38 | 50.20 | 46.10 | 46 | 2.56 | 0.48 | 2.5 |
| 5/2/2015 14:44:46 | 50.53 | 46.43 | 44 | 2.89 | 0.50 | 2.4 |
| 5/2/2015 14:44:55 | 50.85 | 46.75 | 40 | 2.53 | 0.49 | 2.2 |
| 5/2/2015 14:44:57 | 50.93 | 46.83 | 46 | 2.57 | 0.50 | 2.5 |

## P14 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:40:41

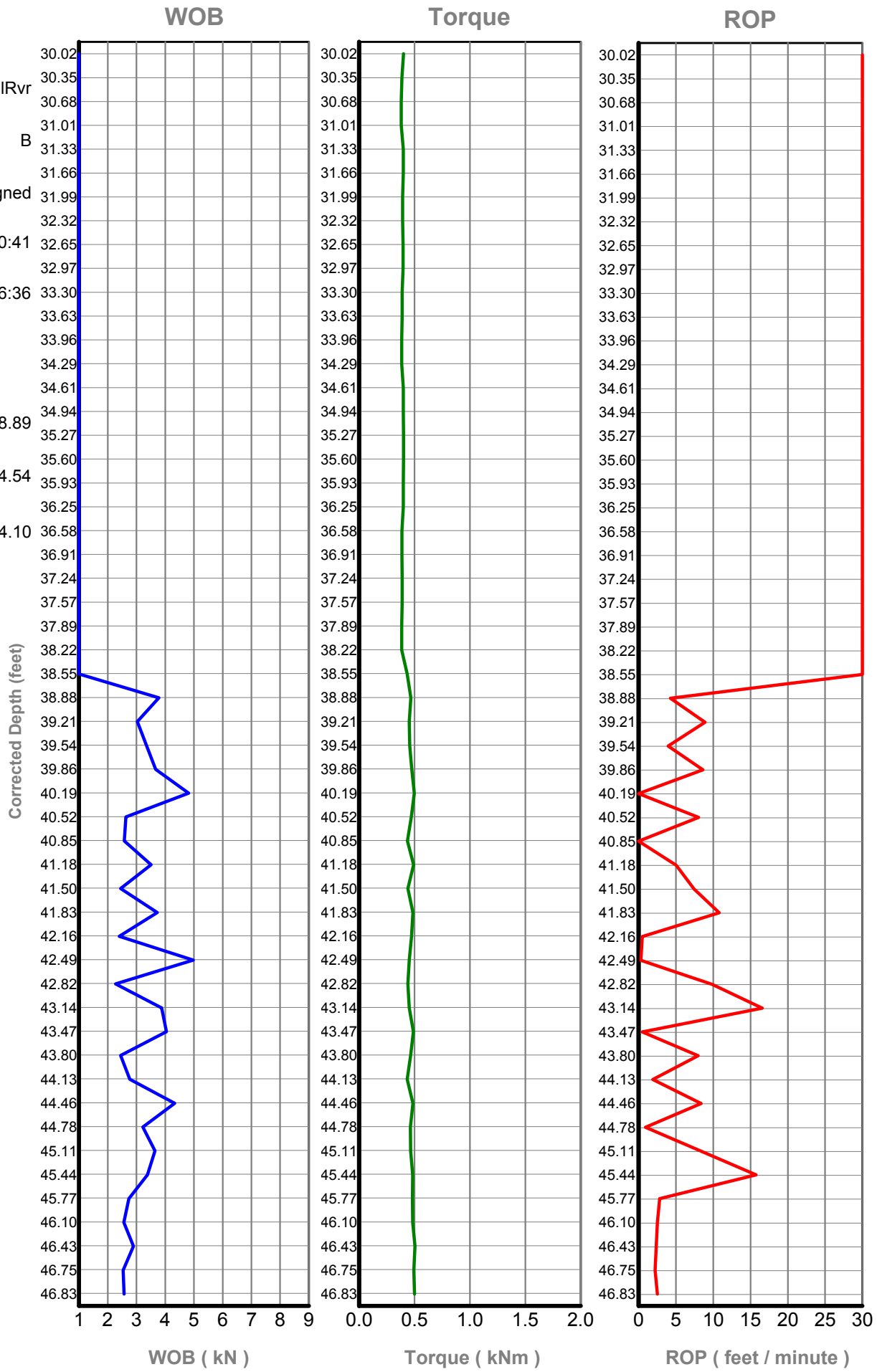
**End Date:**
5/2/2015 14:46:36

**Operator Note:**
'4.1 4.5 b Rock'

**Northing:**
350,018.89

**Easting:**
225,554.54

**Tide (feet):**
4.10



## Hole: P140 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:14:44 | 32.81 | 30.21 | 1,353 | 0.28 | 0.39 | 74.0 |
| 5/2/2015 16:14:44 | 33.14 | 30.54 | 1,353 | 0.28 | 0.39 | 74.0 |
| 5/2/2015 16:14:44 | 33.46 | 30.86 | 1,353 | 0.28 | 0.37 | 74.0 |
| 5/2/2015 16:14:44 | 33.79 | 31.19 | 1,353 | 0.28 | 0.37 | 74.0 |
| 5/2/2015 16:14:45 | 34.12 | 31.52 | 1,364 | 0.27 | 0.37 | 74.6 |
| 5/2/2015 16:14:45 | 34.45 | 31.85 | 1,364 | 0.27 | 0.37 | 74.6 |
| 5/2/2015 16:14:45 | 34.78 | 32.18 | 1,356 | 0.28 | 0.38 | 74.1 |
| 5/2/2015 16:14:46 | 35.11 | 32.51 | 1,356 | 0.28 | 0.38 | 74.1 |
| 5/2/2015 16:14:46 | 35.43 | 32.83 | 1,356 | 0.28 | 0.38 | 74.1 |
| 5/2/2015 16:14:46 | 35.76 | 33.16 | 1,356 | 0.28 | 0.38 | 74.1 |
| 5/2/2015 16:14:46 | 36.09 | 33.49 | 1,345 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:14:46 | 36.42 | 33.82 | 1,345 | 0.28 | 0.38 | 73.5 |
| 5/2/2015 16:14:47 | 36.75 | 34.15 | 1,359 | 0.27 | 0.40 | 74.3 |
| 5/2/2015 16:14:47 | 37.07 | 34.47 | 1,359 | 0.27 | 0.40 | 74.3 |
| 5/2/2015 16:14:47 | 37.40 | 34.80 | 1,350 | 0.27 | 0.37 | 73.8 |
| 5/2/2015 16:14:48 | 37.73 | 35.13 | 1,350 | 0.27 | 0.37 | 73.8 |
| 5/2/2015 16:14:48 | 38.06 | 35.46 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/2/2015 16:14:48 | 38.39 | 35.79 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/2/2015 16:14:48 | 38.71 | 36.11 | 1,350 | 0.28 | 0.40 | 73.8 |
| 5/2/2015 16:14:49 | 39.04 | 36.44 | 1,350 | 0.28 | 0.40 | 73.8 |
| 5/2/2015 16:14:49 | 39.37 | 36.77 | 1,361 | 0.28 | 0.38 | 74.4 |
| 5/2/2015 16:14:49 | 39.70 | 37.10 | 1,361 | 0.28 | 0.38 | 74.4 |
| 5/2/2015 16:14:49 | 40.03 | 37.43 | 1,347 | 0.28 | 0.40 | 73.7 |
| 5/2/2015 16:14:50 | 40.35 | 37.75 | 1,347 | 0.28 | 0.40 | 73.7 |
| 5/2/2015 16:14:50 | 40.68 | 38.08 | 1,350 | 0.27 | 0.38 | 73.8 |
| 5/2/2015 16:14:51 | 41.01 | 38.41 | 1,350 | 0.27 | 0.38 | 73.8 |
| 5/2/2015 16:14:51 | 41.34 | 38.74 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 16:14:51 | 41.67 | 39.07 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 16:14:51 | 41.99 | 39.39 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 16:14:52 | 42.32 | 39.72 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 16:14:52 | 42.65 | 40.05 | 1,350 | 0.28 | 0.37 | 73.8 |
| 5/2/2015 16:14:52 | 42.98 | 40.38 | 1,350 | 0.28 | 0.37 | 73.8 |
| 5/2/2015 16:14:52 | 43.31 | 40.71 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 16:14:52 | 43.64 | 41.04 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 16:14:53 | 43.96 | 41.36 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 16:14:53 | 44.29 | 41.69 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 16:14:53 | 44.62 | 42.02 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 16:14:54 | 44.95 | 42.35 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 16:14:54 | 45.28 | 42.68 | 1,345 | 0.27 | 0.39 | 73.5 |
| 5/2/2015 16:14:54 | 45.60 | 43.00 | 1,345 | 0.27 | 0.39 | 73.5 |
| 5/2/2015 16:14:54 | 45.93 | 43.33 | 1,347 | 0.27 | 0.39 | 73.7 |
| 5/2/2015 16:14:55 | 46.26 | 43.66 | 1,347 | 0.27 | 0.39 | 73.7 |
| 5/2/2015 16:14:55 | 46.59 | 43.99 | 1,335 | 0.27 | 0.38 | 73.0 |
| 5/2/2015 16:14:55 | 46.92 | 44.32 | 1,335 | 0.27 | 0.38 | 73.0 |
| 5/2/2015 16:14:55 | 47.24 | 44.64 | 1,339 | 0.27 | 0.39 | 73.2 |
| 5/2/2015 16:15:01 | 47.57 | 44.97 | 0 | 4.03 | 0.42 | 0.0 |
| 5/2/2015 16:15:04 | 47.90 | 45.30 | 147 | 2.93 | 0.48 | 8.0 |
| 5/2/2015 16:15:08 | 48.23 | 45.63 | 55 | 3.60 | 0.48 | 3.0 |
| 5/2/2015 16:15:09 | 48.56 | 45.96 | 86 | 3.01 | 0.45 | 4.7 |
| 5/2/2015 16:15:16 | 48.88 | 46.28 | 0 | 5.14 | 0.46 | 0.0 |
| 5/2/2015 16:15:17 | 49.21 | 46.61 | 124 | 3.39 | 0.44 | 6.8 |
| 5/2/2015 16:15:17 | 49.54 | 46.94 | 221 | 2.50 | 0.44 | 12.1 |
| 5/2/2015 16:15:18 | 49.87 | 47.27 | 350 | 2.08 | 0.43 | 19.1 |
| 5/2/2015 16:15:18 | 50.20 | 47.60 | 521 | 1.95 | 0.42 | 28.5 |
| 5/2/2015 16:15:19 | 50.53 | 47.93 | 636 | 1.98 | 0.43 | 34.8 |
| 5/2/2015 16:15:19 | 50.85 | 48.25 | 708 | 2.04 | 0.44 | 38.7 |
| 5/2/2015 16:15:20 | 51.18 | 48.58 | 739 | 1.97 | 0.43 | 40.4 |
| 5/2/2015 16:15:20 | 51.51 | 48.91 | 769 | 4.15 | 0.50 | 42.1 |
| 5/2/2015 16:15:22 | 51.84 | 49.24 | 564 | 2.42 | 0.47 | 30.8 |
| 5/2/2015 16:15:22 | 52.17 | 49.57 | 501 | 2.43 | 0.46 | 27.4 |
| 5/2/2015 16:15:24 | 52.49 | 49.89 | 364 | 2.31 | 0.46 | 19.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:15:24 | 52.82 | 50.22 | 376 | 2.99 | 0.47 | 20.6 |
| 5/2/2015 | 16:15:25 | 53.15 | 50.55 | 358 | 2.65 | 0.46 | 19.6 |
| 5/2/2015 | 16:15:26 | 53.48 | 50.88 | 423 | 1.96 | 0.44 | 23.1 |
| 5/2/2015 | 16:15:26 | 53.81 | 51.21 | 494 | 2.05 | 0.44 | 27.0 |
| 5/2/2015 | 16:15:27 | 54.13 | 51.53 | 546 | 2.08 | 0.45 | 29.8 |
| 5/2/2015 | 16:15:27 | 54.46 | 51.86 | 604 | 2.20 | 0.44 | 33.1 |
| 5/2/2015 | 16:15:28 | 54.79 | 52.19 | 633 | 2.17 | 0.44 | 34.6 |
| 5/2/2015 | 16:15:28 | 55.12 | 52.52 | 620 | 2.07 | 0.45 | 33.9 |
| 5/2/2015 | 16:15:30 | 55.45 | 52.85 | 395 | 1.86 | 0.44 | 21.6 |
| 5/2/2015 | 16:15:30 | 55.77 | 53.17 | 387 | 2.00 | 0.44 | 21.1 |
| 5/2/2015 | 16:15:31 | 56.10 | 53.50 | 369 | 2.23 | 0.47 | 20.2 |
| 5/2/2015 | 16:15:34 | 56.43 | 53.83 | 399 | 2.28 | 0.46 | 21.8 |
| 5/2/2015 | 16:15:36 | 56.76 | 54.16 | 131 | 2.61 | 0.48 | 7.1 |
| 5/2/2015 | 16:15:38 | 57.09 | 54.49 | 178 | 2.65 | 0.48 | 9.7 |
| 5/2/2015 | 16:15:41 | 57.41 | 54.81 | 115 | 2.74 | 0.49 | 6.3 |
| 5/2/2015 | 16:15:44 | 57.74 | 55.14 | 172 | 1.95 | 0.43 | 9.4 |
| 5/2/2015 | 16:15:44 | 58.06 | 55.46 | 172 | 1.95 | 0.43 | 9.4 |

## P140 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 16:13:03

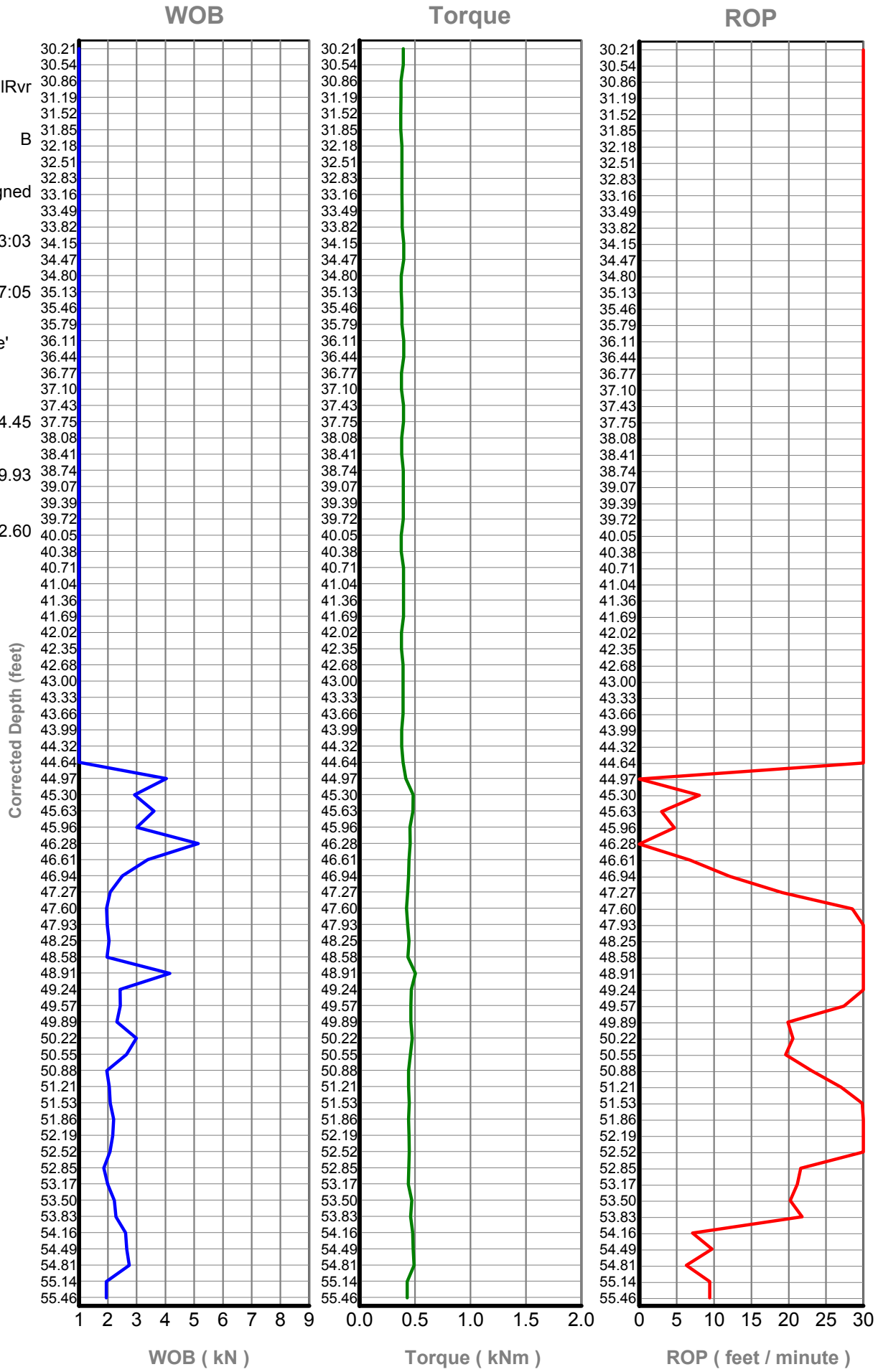
**End Date:**
5/2/2015 16:17:05

**Operator Note:**
'2.6 2.8 b Auto Complete'

**Northing:**
349,584.45

**Easting:**
225,559.93

**Tide (feet):**
2.60



## Hole: P141 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:14:30 | 32.81 | 30.21 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 16:14:30 | 33.14 | 30.54 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:31 | 33.46 | 30.86 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:31 | 33.79 | 31.19 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:31 | 34.12 | 31.52 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 16:14:32 | 34.45 | 31.85 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 16:14:32 | 34.78 | 32.18 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 16:14:32 | 35.11 | 32.51 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:33 | 35.43 | 32.83 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:33 | 35.76 | 33.16 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 16:14:33 | 36.09 | 33.49 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 16:14:33 | 36.42 | 33.82 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 16:14:34 | 36.75 | 34.15 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 16:14:34 | 37.07 | 34.47 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 16:14:34 | 37.40 | 34.80 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 16:14:35 | 37.73 | 35.13 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 16:14:35 | 38.06 | 35.46 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 16:14:35 | 38.39 | 35.79 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:36 | 38.71 | 36.11 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:36 | 39.04 | 36.44 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 16:14:36 | 39.37 | 36.77 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:37 | 39.70 | 37.10 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:37 | 40.03 | 37.43 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 16:14:37 | 40.35 | 37.75 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 16:14:37 | 40.68 | 38.08 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 16:14:38 | 41.01 | 38.41 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 16:14:38 | 41.34 | 38.74 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 16:14:38 | 41.67 | 39.07 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 16:14:39 | 41.99 | 39.39 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:40 | 42.32 | 39.72 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 16:14:40 | 42.65 | 40.05 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 16:14:40 | 42.98 | 40.38 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 16:14:40 | 43.31 | 40.71 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 16:14:41 | 43.64 | 41.04 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 16:14:41 | 43.96 | 41.36 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 16:14:41 | 44.29 | 41.69 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 16:14:42 | 44.62 | 42.02 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 16:14:42 | 44.95 | 42.35 | 1,089 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 16:14:42 | 45.28 | 42.68 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 16:14:43 | 45.60 | 43.00 | 1,102 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 16:14:43 | 45.93 | 43.33 | 1,102 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 16:14:43 | 46.26 | 43.66 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 16:14:56 | 46.59 | 43.99 | 66 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 16:14:57 | 46.92 | 44.32 | 158 | 1.14 | 0.29 | 8.6 |
| 5/2/2015 16:14:57 | 47.24 | 44.64 | 258 | 1.14 | 0.29 | 14.1 |
| 5/2/2015 16:14:58 | 47.57 | 44.97 | 420 | 1.14 | 0.29 | 22.9 |
| 5/2/2015 16:14:59 | 47.90 | 45.30 | 433 | 1.14 | 0.29 | 23.7 |
| 5/2/2015 16:15:01 | 48.23 | 45.63 | 317 | 1.14 | 0.29 | 17.3 |
| 5/2/2015 16:15:02 | 48.56 | 45.96 | 313 | 1.14 | 0.29 | 17.1 |
| 5/2/2015 16:15:52 | 48.88 | 46.28 | 68 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 16:15:53 | 49.21 | 46.61 | 153 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 16:15:53 | 49.54 | 46.94 | 261 | 1.14 | 0.29 | 14.3 |
| 5/2/2015 16:16:23 | 49.87 | 47.27 | 74 | 1.14 | 0.29 | 4.1 |
| 5/2/2015 16:16:24 | 50.20 | 47.60 | 179 | 1.14 | 0.29 | 9.8 |
| 5/2/2015 16:16:47 | 50.53 | 47.93 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 16:16:48 | 50.85 | 48.25 | 151 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 16:16:49 | 51.18 | 48.58 | 293 | 1.14 | 0.29 | 16.0 |
| 5/2/2015 16:16:51 | 51.51 | 48.91 | 314 | 1.14 | 0.29 | 17.2 |
| 5/2/2015 16:16:53 | 51.84 | 49.24 | 239 | 1.14 | 0.29 | 13.0 |
| 5/2/2015 16:16:55 | 52.17 | 49.57 | 96 | 1.14 | 0.29 | 5.2 |
| 5/2/2015 16:17:04 | 52.49 | 49.89 | 41 | 1.14 | 0.29 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:17:04 | 52.82 | 50.22 | 121 | 1.14 | 0.29 | 6.6 |
| 5/2/2015 | 16:17:05 | 53.15 | 50.55 | 294 | 1.14 | 0.29 | 16.1 |
| 5/2/2015 | 16:17:06 | 53.48 | 50.88 | 412 | 1.14 | 0.29 | 22.5 |
| 5/2/2015 | 16:17:07 | 53.81 | 51.21 | 343 | 1.14 | 0.29 | 18.8 |
| 5/2/2015 | 16:17:09 | 54.13 | 51.53 | 192 | 1.14 | 0.29 | 10.5 |
| 5/2/2015 | 16:17:16 | 54.46 | 51.86 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 | 16:17:17 | 54.79 | 52.19 | 159 | 1.14 | 0.29 | 8.7 |
| 5/2/2015 | 16:17:19 | 55.12 | 52.52 | 241 | 1.14 | 0.29 | 13.2 |
| 5/2/2015 | 16:17:21 | 55.45 | 52.85 | 175 | 1.14 | 0.29 | 9.5 |
| 5/2/2015 | 16:17:23 | 55.77 | 53.17 | 169 | 1.14 | 0.29 | 9.2 |
| 5/2/2015 | 16:17:33 | 56.10 | 53.50 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 16:17:35 | 56.43 | 53.83 | 169 | 1.14 | 0.29 | 9.2 |
| 5/2/2015 | 16:17:36 | 56.76 | 54.16 | 270 | 1.14 | 0.29 | 14.8 |
| 5/2/2015 | 16:17:38 | 57.09 | 54.49 | 213 | 1.14 | 0.29 | 11.6 |
| 5/2/2015 | 16:17:42 | 57.41 | 54.81 | 93 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 | 16:17:44 | 57.74 | 55.14 | 148 | 1.14 | 0.29 | 8.1 |
| 5/2/2015 | 16:17:45 | 57.81 | 55.21 | 163 | 1.14 | 0.29 | 8.9 |

## P141 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/2/2015 16:13:36

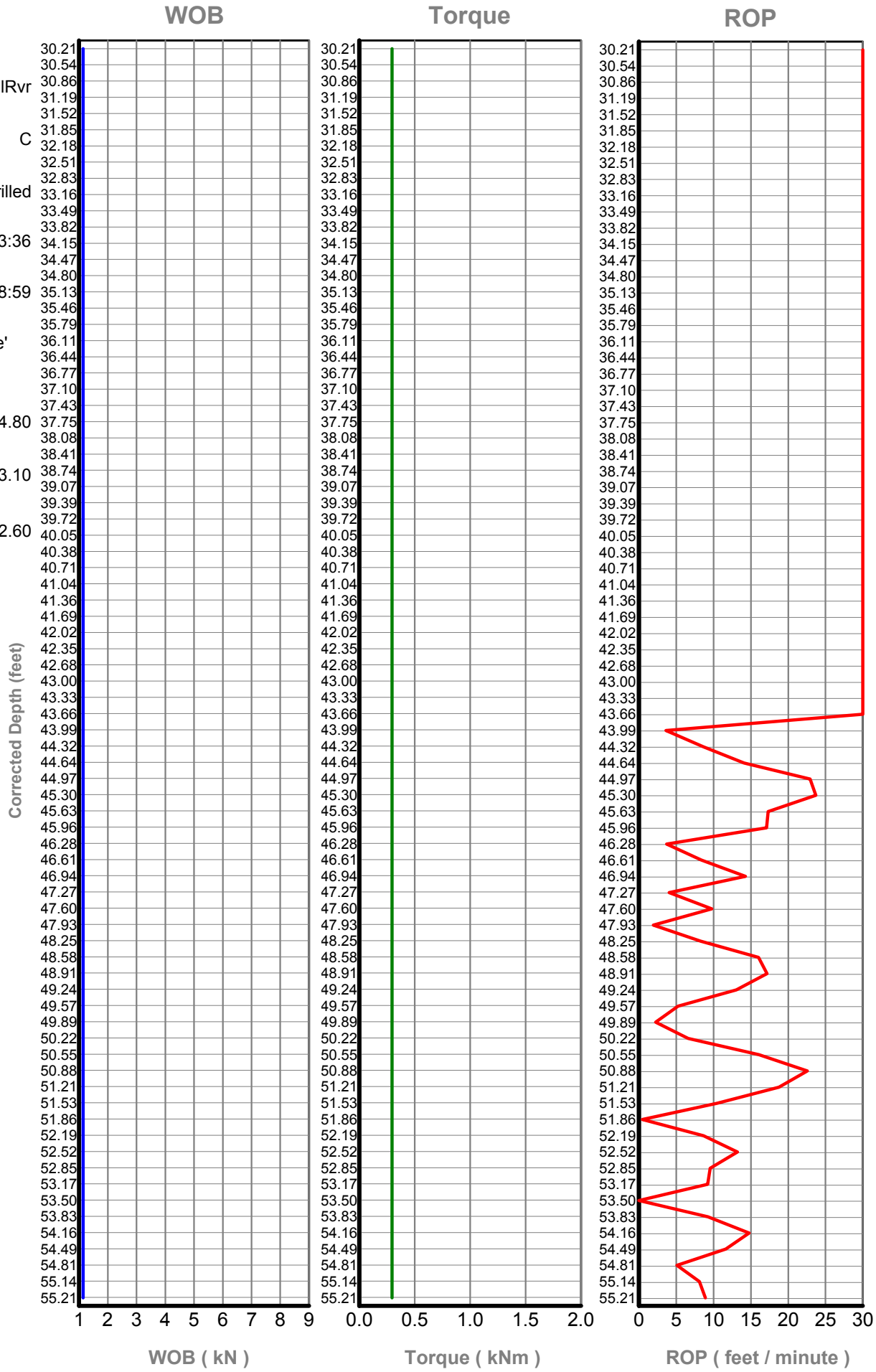
**End Date:**
5/2/2015 16:28:59

**Operator Note:**
'2.6 2.8 c Auto Complete'

**Northing:**
349,624.80

**Easting:**
225,623.10

**Tide (feet):**
2.60



## Hole: P142 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:26:08 | 35.76 | 30.16 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 13:26:08 | 36.09 | 30.49 | 937 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 13:26:09 | 36.42 | 30.82 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 13:26:09 | 36.75 | 31.15 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 13:26:10 | 37.07 | 31.47 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 13:26:10 | 37.40 | 31.80 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:10 | 37.73 | 32.13 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:11 | 38.06 | 32.46 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:11 | 38.39 | 32.79 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:11 | 38.71 | 33.11 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:12 | 39.04 | 33.44 | 940 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 13:26:12 | 39.37 | 33.77 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:13 | 39.70 | 34.10 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:13 | 40.03 | 34.43 | 940 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 13:26:14 | 40.35 | 34.75 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:14 | 40.68 | 35.08 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:14 | 41.01 | 35.41 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 13:26:15 | 41.34 | 35.74 | 923 | 0.54 | 0.17 | 50.5 |
| 5/2/2015 13:26:15 | 41.67 | 36.07 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 13:26:16 | 41.99 | 36.39 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 13:26:16 | 42.32 | 36.72 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:16 | 42.65 | 37.05 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 13:26:17 | 42.98 | 37.38 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:17 | 43.31 | 37.71 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:17 | 43.64 | 38.04 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 13:26:18 | 43.96 | 38.36 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:18 | 44.29 | 38.69 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:19 | 44.62 | 39.02 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:19 | 44.95 | 39.35 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 13:26:19 | 45.28 | 39.68 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:20 | 45.60 | 40.00 | 926 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 13:26:20 | 45.93 | 40.33 | 926 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 13:26:20 | 46.26 | 40.66 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 13:26:21 | 46.59 | 40.99 | 928 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 13:26:21 | 46.92 | 41.32 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:22 | 47.24 | 41.64 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:22 | 47.57 | 41.97 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 13:26:22 | 47.90 | 42.30 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 13:26:23 | 48.23 | 42.63 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 13:26:23 | 48.56 | 42.96 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 13:26:23 | 48.88 | 43.28 | 920 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 13:26:24 | 49.21 | 43.61 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 13:26:25 | 49.54 | 43.94 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:25 | 49.87 | 44.27 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 13:26:25 | 50.20 | 44.60 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 13:26:26 | 50.53 | 44.93 | 926 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 13:26:37 | 50.85 | 45.25 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 13:26:38 | 51.18 | 45.58 | 174 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 13:26:39 | 51.51 | 45.91 | 314 | 0.54 | 0.17 | 17.2 |
| 5/2/2015 13:26:41 | 51.84 | 46.24 | 309 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 13:26:42 | 52.17 | 46.57 | 178 | 0.54 | 0.17 | 9.7 |
| 5/2/2015 13:26:43 | 52.49 | 46.89 | 263 | 0.54 | 0.17 | 14.4 |
| 5/2/2015 13:26:44 | 52.82 | 47.22 | 263 | 0.54 | 0.17 | 14.4 |
| 5/2/2015 13:26:44 | 53.15 | 47.55 | 344 | 0.54 | 0.17 | 18.8 |
| 5/2/2015 13:26:45 | 53.48 | 47.88 | 464 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 13:26:45 | 53.81 | 48.21 | 560 | 0.54 | 0.17 | 30.6 |
| 5/2/2015 13:26:46 | 54.13 | 48.53 | 613 | 0.54 | 0.17 | 33.5 |
| 5/2/2015 13:26:46 | 54.46 | 48.86 | 650 | 0.54 | 0.17 | 35.5 |
| 5/2/2015 13:26:47 | 54.79 | 49.19 | 677 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 13:26:48 | 55.12 | 49.52 | 677 | 0.54 | 0.17 | 37.0 |
| 5/2/2015 13:26:49 | 55.45 | 49.85 | 677 | 0.54 | 0.17 | 37.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:26:50 | 55.77 | 50.17 | 499 | 0.54 | 0.17 | 27.3 |
| 5/2/2015 | 13:26:50 | 56.10 | 50.50 | 451 | 0.54 | 0.17 | 24.7 |
| 5/2/2015 | 13:26:51 | 56.43 | 50.83 | 405 | 0.54 | 0.17 | 22.2 |
| 5/2/2015 | 13:26:53 | 56.76 | 51.16 | 308 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 | 13:26:54 | 57.09 | 51.49 | 218 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 | 13:26:55 | 57.41 | 51.81 | 273 | 0.54 | 0.17 | 15.0 |
| 5/2/2015 | 13:27:01 | 57.74 | 52.14 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 13:27:04 | 58.07 | 52.47 | 148 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 | 13:27:05 | 58.40 | 52.80 | 216 | 0.54 | 0.17 | 11.8 |
| 5/2/2015 | 13:27:05 | 58.73 | 53.13 | 325 | 0.54 | 0.17 | 17.7 |
| 5/2/2015 | 13:27:06 | 59.06 | 53.46 | 365 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 | 13:27:07 | 59.38 | 53.78 | 434 | 0.54 | 0.17 | 23.7 |
| 5/2/2015 | 13:27:08 | 59.71 | 54.11 | 404 | 0.54 | 0.17 | 22.1 |
| 5/2/2015 | 13:27:08 | 60.04 | 54.44 | 444 | 0.54 | 0.17 | 24.3 |
| 5/2/2015 | 13:27:09 | 60.37 | 54.77 | 444 | 0.54 | 0.17 | 24.3 |
| 5/2/2015 | 13:27:09 | 60.70 | 55.10 | 519 | 0.54 | 0.17 | 28.4 |
| 5/2/2015 | 13:27:10 | 61.02 | 55.42 | 551 | 0.54 | 0.17 | 30.1 |
| 5/2/2015 | 13:27:10 | 61.23 | 55.63 | 551 | 0.54 | 0.17 | 30.1 |

## P142 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:24:38

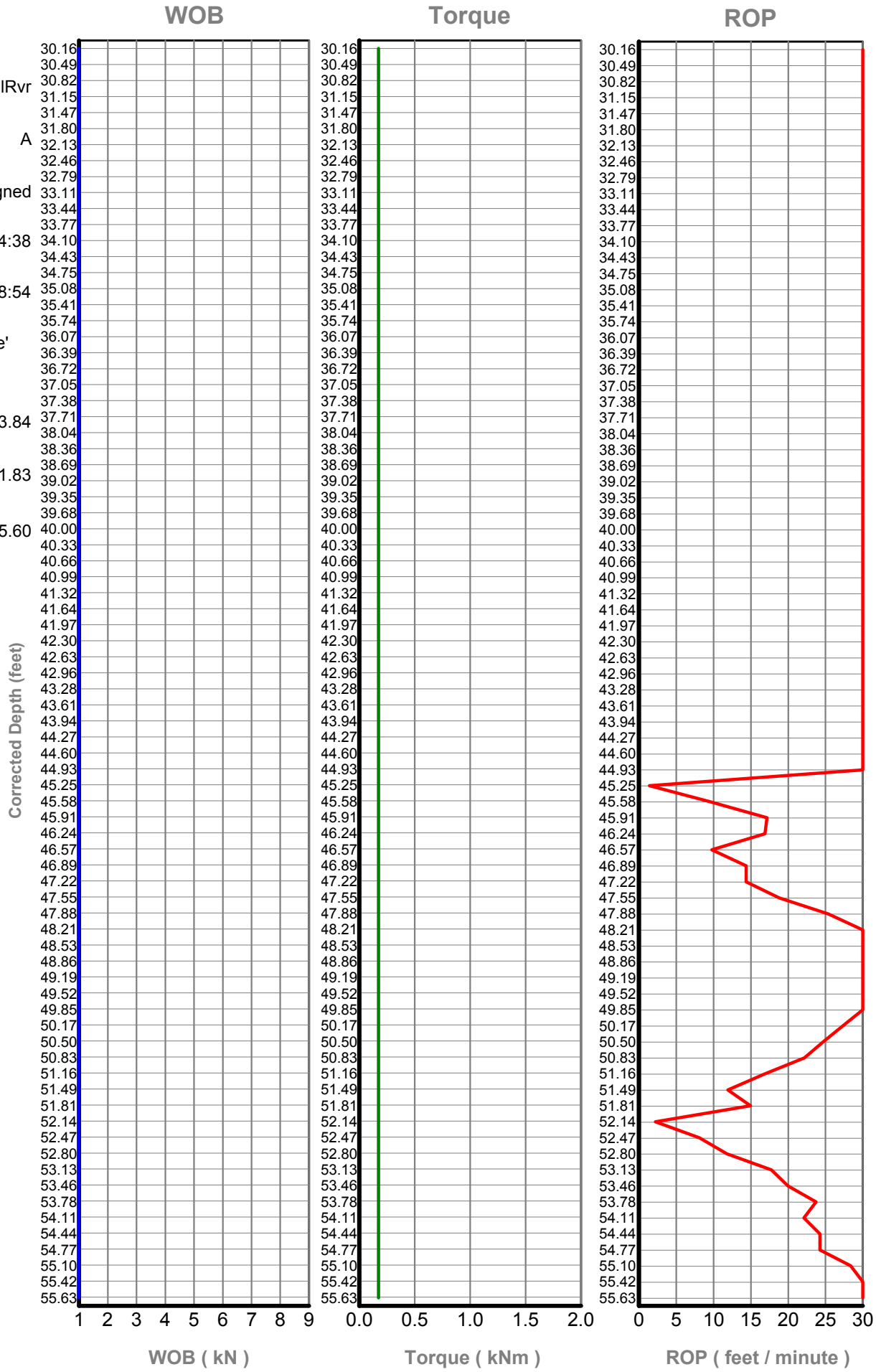
**End Date:**
5/2/2015 13:28:54

**Operator Note:**
'5.6 5.8 a Auto Complete'

**Northing:**
349,673.84

**Easting:**
225,691.83

**Tide (feet):**
5.60



## Hole: P143 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:25:55 | 35.76 | 30.16 | 1,078 | 0.37 | 0.41 | 59.0 |
| 5/2/2015 13:25:55 | 36.09 | 30.49 | 1,075 | 0.37 | 0.41 | 58.8 |
| 5/2/2015 13:25:55 | 36.42 | 30.82 | 1,075 | 0.37 | 0.41 | 58.8 |
| 5/2/2015 13:25:55 | 36.75 | 31.15 | 1,078 | 0.37 | 0.42 | 59.0 |
| 5/2/2015 13:25:56 | 37.07 | 31.47 | 1,078 | 0.37 | 0.42 | 59.0 |
| 5/2/2015 13:25:56 | 37.40 | 31.80 | 1,078 | 0.37 | 0.42 | 59.0 |
| 5/2/2015 13:25:56 | 37.73 | 32.13 | 1,075 | 0.37 | 0.41 | 58.8 |
| 5/2/2015 13:25:57 | 38.06 | 32.46 | 1,072 | 0.37 | 0.42 | 58.6 |
| 5/2/2015 13:25:57 | 38.39 | 32.79 | 1,072 | 0.37 | 0.42 | 58.6 |
| 5/2/2015 13:25:57 | 38.71 | 33.11 | 1,084 | 0.37 | 0.41 | 59.3 |
| 5/2/2015 13:25:58 | 39.04 | 33.44 | 1,087 | 0.37 | 0.41 | 59.4 |
| 5/2/2015 13:25:58 | 39.37 | 33.77 | 1,087 | 0.37 | 0.41 | 59.4 |
| 5/2/2015 13:25:58 | 39.70 | 34.10 | 1,087 | 0.37 | 0.41 | 59.4 |
| 5/2/2015 13:25:59 | 40.03 | 34.43 | 1,087 | 0.37 | 0.41 | 59.4 |
| 5/2/2015 13:25:59 | 40.35 | 34.75 | 1,090 | 0.37 | 0.41 | 59.6 |
| 5/2/2015 13:25:59 | 40.68 | 35.08 | 1,093 | 0.37 | 0.41 | 59.8 |
| 5/2/2015 13:26:00 | 41.01 | 35.41 | 1,093 | 0.37 | 0.41 | 59.8 |
| 5/2/2015 13:26:00 | 41.34 | 35.74 | 1,093 | 0.37 | 0.41 | 59.8 |
| 5/2/2015 13:26:00 | 41.67 | 36.07 | 1,090 | 0.37 | 0.41 | 59.6 |
| 5/2/2015 13:26:01 | 41.99 | 36.39 | 1,090 | 0.37 | 0.41 | 59.6 |
| 5/2/2015 13:26:01 | 42.32 | 36.72 | 1,084 | 0.38 | 0.41 | 59.3 |
| 5/2/2015 13:26:01 | 42.65 | 37.05 | 1,084 | 0.38 | 0.41 | 59.3 |
| 5/2/2015 13:26:01 | 42.98 | 37.38 | 1,093 | 0.37 | 0.41 | 59.8 |
| 5/2/2015 13:26:02 | 43.31 | 37.71 | 1,093 | 0.39 | 0.41 | 59.8 |
| 5/2/2015 13:26:02 | 43.64 | 38.04 | 1,093 | 0.39 | 0.41 | 59.8 |
| 5/2/2015 13:26:02 | 43.96 | 38.36 | 1,090 | 0.38 | 0.41 | 59.6 |
| 5/2/2015 13:26:03 | 44.29 | 38.69 | 1,093 | 0.38 | 0.41 | 59.7 |
| 5/2/2015 13:26:03 | 44.62 | 39.02 | 1,093 | 0.38 | 0.41 | 59.7 |
| 5/2/2015 13:26:03 | 44.95 | 39.35 | 1,102 | 0.38 | 0.41 | 60.3 |
| 5/2/2015 13:26:04 | 45.28 | 39.68 | 1,102 | 0.38 | 0.41 | 60.3 |
| 5/2/2015 13:26:04 | 45.60 | 40.00 | 1,093 | 0.38 | 0.41 | 59.8 |
| 5/2/2015 13:26:04 | 45.93 | 40.33 | 1,093 | 0.38 | 0.42 | 59.7 |
| 5/2/2015 13:26:05 | 46.26 | 40.66 | 1,093 | 0.38 | 0.42 | 59.7 |
| 5/2/2015 13:26:05 | 46.59 | 40.99 | 1,096 | 0.38 | 0.41 | 59.9 |
| 5/2/2015 13:26:06 | 46.92 | 41.32 | 1,098 | 0.38 | 0.41 | 60.1 |
| 5/2/2015 13:26:06 | 47.24 | 41.64 | 1,098 | 0.38 | 0.41 | 60.1 |
| 5/2/2015 13:26:06 | 47.57 | 41.97 | 1,098 | 0.37 | 0.42 | 60.1 |
| 5/2/2015 13:26:07 | 47.90 | 42.30 | 1,098 | 0.37 | 0.42 | 60.1 |
| 5/2/2015 13:26:07 | 48.23 | 42.63 | 1,098 | 0.38 | 0.41 | 60.1 |
| 5/2/2015 13:26:07 | 48.56 | 42.96 | 1,096 | 0.38 | 0.41 | 59.9 |
| 5/2/2015 13:26:08 | 48.88 | 43.28 | 1,096 | 0.38 | 0.41 | 59.9 |
| 5/2/2015 13:26:08 | 49.21 | 43.61 | 1,099 | 0.38 | 0.42 | 60.1 |
| 5/2/2015 13:26:08 | 49.54 | 43.94 | 1,096 | 0.38 | 0.42 | 59.9 |
| 5/2/2015 13:26:09 | 49.87 | 44.27 | 1,096 | 0.38 | 0.42 | 59.9 |
| 5/2/2015 13:26:09 | 50.20 | 44.60 | 1,074 | 0.37 | 0.42 | 58.7 |
| 5/2/2015 13:26:09 | 50.53 | 44.93 | 1,074 | 0.31 | 0.50 | 58.7 |
| 5/2/2015 13:26:18 | 50.85 | 45.25 | 84 | 4.96 | 0.50 | 4.6 |
| 5/2/2015 13:26:21 | 51.18 | 45.58 | 194 | 4.21 | 0.48 | 10.6 |
| 5/2/2015 13:26:22 | 51.51 | 45.91 | 224 | 7.95 | 0.50 | 12.3 |
| 5/2/2015 13:26:29 | 51.84 | 46.24 | 14 | 5.51 | 0.48 | 0.8 |
| 5/2/2015 13:26:34 | 52.17 | 46.57 | 9 | 4.86 | 0.45 | 0.5 |
| 5/2/2015 13:26:35 | 52.49 | 46.89 | 180 | 3.67 | 0.47 | 9.8 |
| 5/2/2015 13:26:50 | 52.82 | 47.22 | 41 | 3.32 | 0.48 | 2.2 |
| 5/2/2015 13:26:51 | 53.15 | 47.55 | 188 | 5.34 | 0.48 | 10.3 |
| 5/2/2015 13:27:17 | 53.48 | 47.88 | 70 | 3.46 | 0.48 | 3.8 |
| 5/2/2015 13:27:24 | 53.81 | 48.21 | 31 | 4.93 | 0.51 | 1.7 |
| 5/2/2015 13:27:29 | 54.13 | 48.53 | 121 | 5.23 | 0.48 | 6.6 |
| 5/2/2015 13:27:36 | 54.46 | 48.86 | 96 | 4.44 | 0.48 | 5.2 |
| 5/2/2015 13:27:36 | 54.79 | 49.19 | 170 | 3.17 | 0.46 | 9.3 |
| 5/2/2015 13:27:42 | 55.12 | 49.52 | 11 | 3.03 | 0.49 | 0.6 |
| 5/2/2015 13:27:44 | 55.45 | 49.85 | 154 | 2.90 | 0.49 | 8.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:27:46 | 55.77 | 50.17 | 162 | 2.86 | 0.49 | 8.9 |
| 5/2/2015 | 13:27:48 | 56.10 | 50.50 | 150 | 2.89 | 0.49 | 8.2 |
| 5/2/2015 | 13:27:51 | 56.43 | 50.83 | 171 | 2.96 | 0.41 | 9.3 |
| 5/2/2015 | 13:28:01 | 56.76 | 51.16 | 51 | 2.74 | 0.48 | 2.8 |
| 5/2/2015 | 13:28:04 | 57.09 | 51.49 | 90 | 2.66 | 0.47 | 4.9 |
| 5/2/2015 | 13:28:08 | 57.41 | 51.81 | 115 | 2.56 | 0.47 | 6.3 |
| 5/2/2015 | 13:28:09 | 57.74 | 52.14 | 140 | 3.56 | 0.50 | 7.6 |
| 5/2/2015 | 13:28:10 | 58.07 | 52.47 | 171 | 3.54 | 0.45 | 9.4 |
| 5/2/2015 | 13:28:11 | 58.40 | 52.80 | 320 | 2.48 | 0.44 | 17.5 |
| 5/2/2015 | 13:28:12 | 58.73 | 53.13 | 407 | 2.67 | 0.46 | 22.2 |
| 5/2/2015 | 13:28:14 | 59.06 | 53.46 | 250 | 2.55 | 0.47 | 13.7 |
| 5/2/2015 | 13:28:18 | 59.38 | 53.78 | 87 | 2.64 | 0.49 | 4.8 |
| 5/2/2015 | 13:28:23 | 59.71 | 54.11 | 40 | 2.63 | 0.47 | 2.2 |
| 5/2/2015 | 13:28:38 | 60.04 | 54.44 | 52 | 2.32 | 0.46 | 2.9 |
| 5/2/2015 | 13:28:41 | 60.37 | 54.77 | 204 | 2.34 | 0.45 | 11.2 |
| 5/2/2015 | 13:28:42 | 60.70 | 55.10 | 236 | 2.69 | 0.49 | 12.9 |
| 5/2/2015 | 13:28:43 | 60.80 | 55.20 | 188 | 2.83 | 0.50 | 10.3 |

## P143 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:23:57

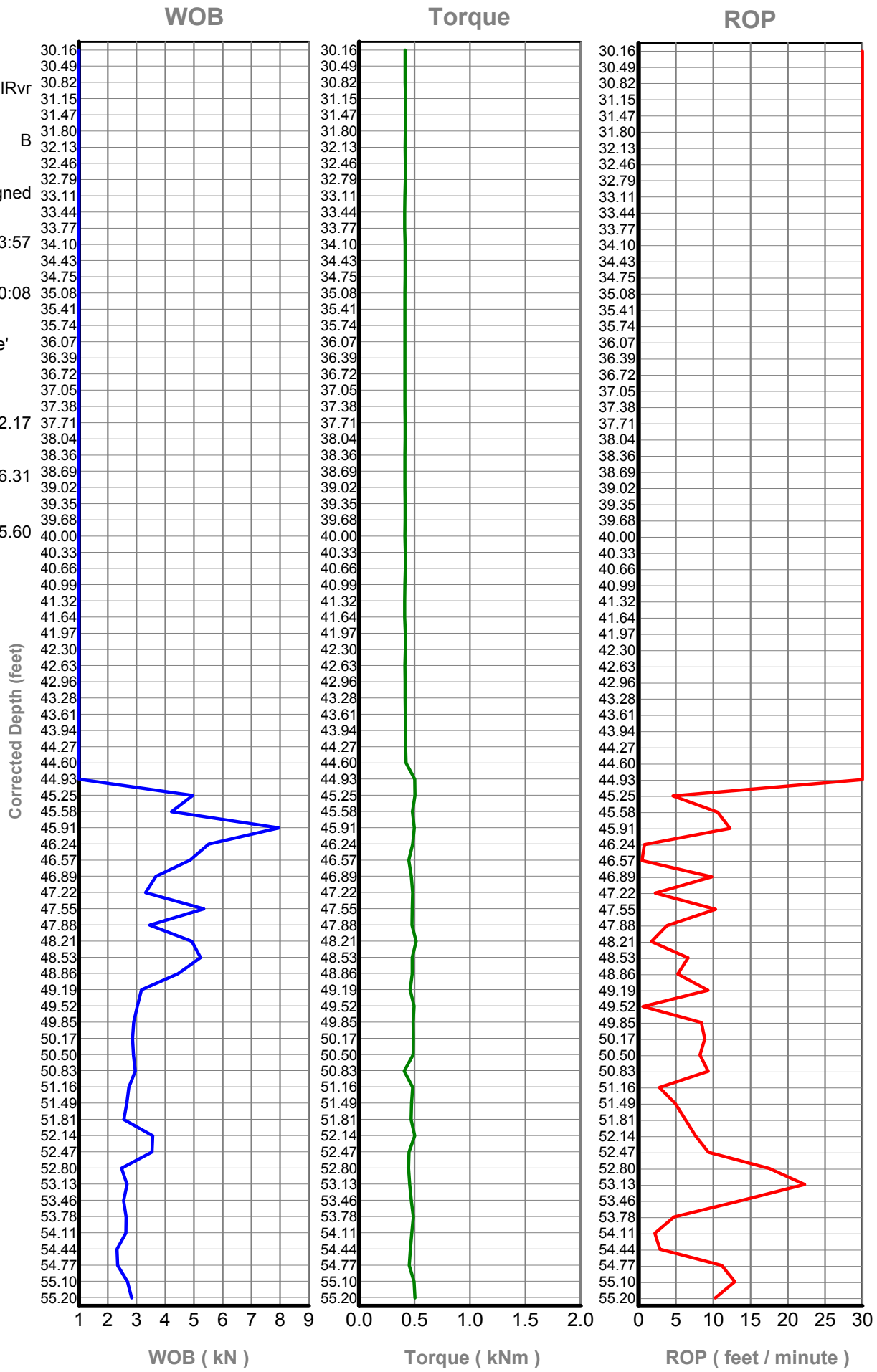
**End Date:**
5/2/2015 13:30:08

**Operator Note:**
'5.6 5.8 b Auto Complete'

**Northing:**
349,712.17

**Easting:**
225,756.31

**Tide (feet):**
5.60



## Hole: P144 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:25:18 | 35.76 | 30.16 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 13:25:19 | 36.09 | 30.49 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:19 | 36.42 | 30.82 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:19 | 36.75 | 31.15 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 13:25:20 | 37.07 | 31.47 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 13:25:20 | 37.40 | 31.80 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 13:25:20 | 37.73 | 32.13 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:21 | 38.06 | 32.46 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:21 | 38.39 | 32.79 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:21 | 38.71 | 33.11 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:22 | 39.04 | 33.44 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 13:25:22 | 39.37 | 33.77 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 13:25:22 | 39.70 | 34.10 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 13:25:23 | 40.03 | 34.43 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 13:25:23 | 40.35 | 34.75 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 13:25:23 | 40.68 | 35.08 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:24 | 41.01 | 35.41 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 13:25:24 | 41.34 | 35.74 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 13:25:24 | 41.67 | 36.07 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 13:25:25 | 41.99 | 36.39 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:25 | 42.32 | 36.72 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:25 | 42.65 | 37.05 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 13:25:26 | 42.98 | 37.38 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 13:25:26 | 43.31 | 37.71 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 13:25:26 | 43.64 | 38.04 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 13:25:27 | 43.96 | 38.36 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:27 | 44.29 | 38.69 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:27 | 44.62 | 39.02 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 13:25:28 | 44.95 | 39.35 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 13:25:29 | 45.28 | 39.68 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 13:25:29 | 45.60 | 40.00 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 13:25:29 | 45.93 | 40.33 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 13:25:30 | 46.26 | 40.66 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 13:25:30 | 46.59 | 40.99 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:30 | 46.92 | 41.32 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 13:25:31 | 47.24 | 41.64 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 13:25:31 | 47.57 | 41.97 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 13:25:31 | 47.90 | 42.30 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:32 | 48.23 | 42.63 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 13:25:32 | 48.56 | 42.96 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:32 | 48.88 | 43.28 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:33 | 49.21 | 43.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:33 | 49.54 | 43.94 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 13:25:33 | 49.87 | 44.27 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 13:25:49 | 50.20 | 44.60 | 96 | 1.14 | 0.29 | 5.2 |
| 5/2/2015 13:25:49 | 50.53 | 44.93 | 181 | 1.14 | 0.29 | 9.9 |
| 5/2/2015 13:25:50 | 50.85 | 45.25 | 297 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 13:25:51 | 51.18 | 45.58 | 379 | 1.14 | 0.29 | 20.7 |
| 5/2/2015 13:27:26 | 51.51 | 45.91 | 18 | 1.14 | 0.29 | 1.0 |
| 5/2/2015 13:27:29 | 51.84 | 46.24 | 114 | 1.14 | 0.29 | 6.2 |
| 5/2/2015 13:27:35 | 52.17 | 46.57 | 79 | 1.14 | 0.29 | 4.3 |
| 5/2/2015 13:27:36 | 52.49 | 46.89 | 189 | 1.14 | 0.29 | 10.3 |
| 5/2/2015 13:27:36 | 52.82 | 47.22 | 291 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 13:27:38 | 53.15 | 47.55 | 407 | 1.14 | 0.29 | 22.2 |
| 5/2/2015 13:27:39 | 53.48 | 47.88 | 416 | 1.14 | 0.29 | 22.7 |
| 5/2/2015 13:28:27 | 53.81 | 48.21 | 4 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 13:28:28 | 54.13 | 48.53 | 104 | 1.14 | 0.29 | 5.7 |
| 5/2/2015 13:28:29 | 54.46 | 48.86 | 296 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 13:28:29 | 54.79 | 49.19 | 405 | 1.14 | 0.29 | 22.1 |
| 5/2/2015 13:28:30 | 55.12 | 49.52 | 517 | 1.14 | 0.29 | 28.3 |
| 5/2/2015 13:28:30 | 55.45 | 49.85 | 544 | 1.14 | 0.29 | 29.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 13:30:31 | 55.77 | 50.17 | 37 | 1.14 | 0.29 | 2.0 |
| 5/2/2015 | 13:30:38 | 56.10 | 50.50 | 62 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 | 13:30:38 | 56.43 | 50.83 | 153 | 1.14 | 0.29 | 8.4 |
| 5/2/2015 | 13:30:48 | 56.76 | 51.16 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 | 13:30:51 | 57.09 | 51.49 | 101 | 1.14 | 0.29 | 5.5 |
| 5/2/2015 | 13:30:52 | 57.41 | 51.81 | 176 | 1.14 | 0.29 | 9.6 |
| 5/2/2015 | 13:30:53 | 57.74 | 52.14 | 355 | 1.14 | 0.29 | 19.4 |
| 5/2/2015 | 13:31:00 | 58.07 | 52.47 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 13:31:01 | 58.40 | 52.80 | 222 | 1.14 | 0.29 | 12.1 |
| 5/2/2015 | 13:31:22 | 58.73 | 53.13 | 18 | 1.14 | 0.29 | 1.0 |
| 5/2/2015 | 13:31:24 | 59.06 | 53.46 | 215 | 1.14 | 0.29 | 11.7 |
| 5/2/2015 | 13:31:26 | 59.38 | 53.78 | 171 | 1.14 | 0.29 | 9.3 |
| 5/2/2015 | 13:31:37 | 59.71 | 54.11 | 124 | 1.14 | 0.29 | 6.8 |
| 5/2/2015 | 13:31:37 | 59.94 | 54.34 | 179 | 1.14 | 0.29 | 9.8 |

## P144 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:23:53

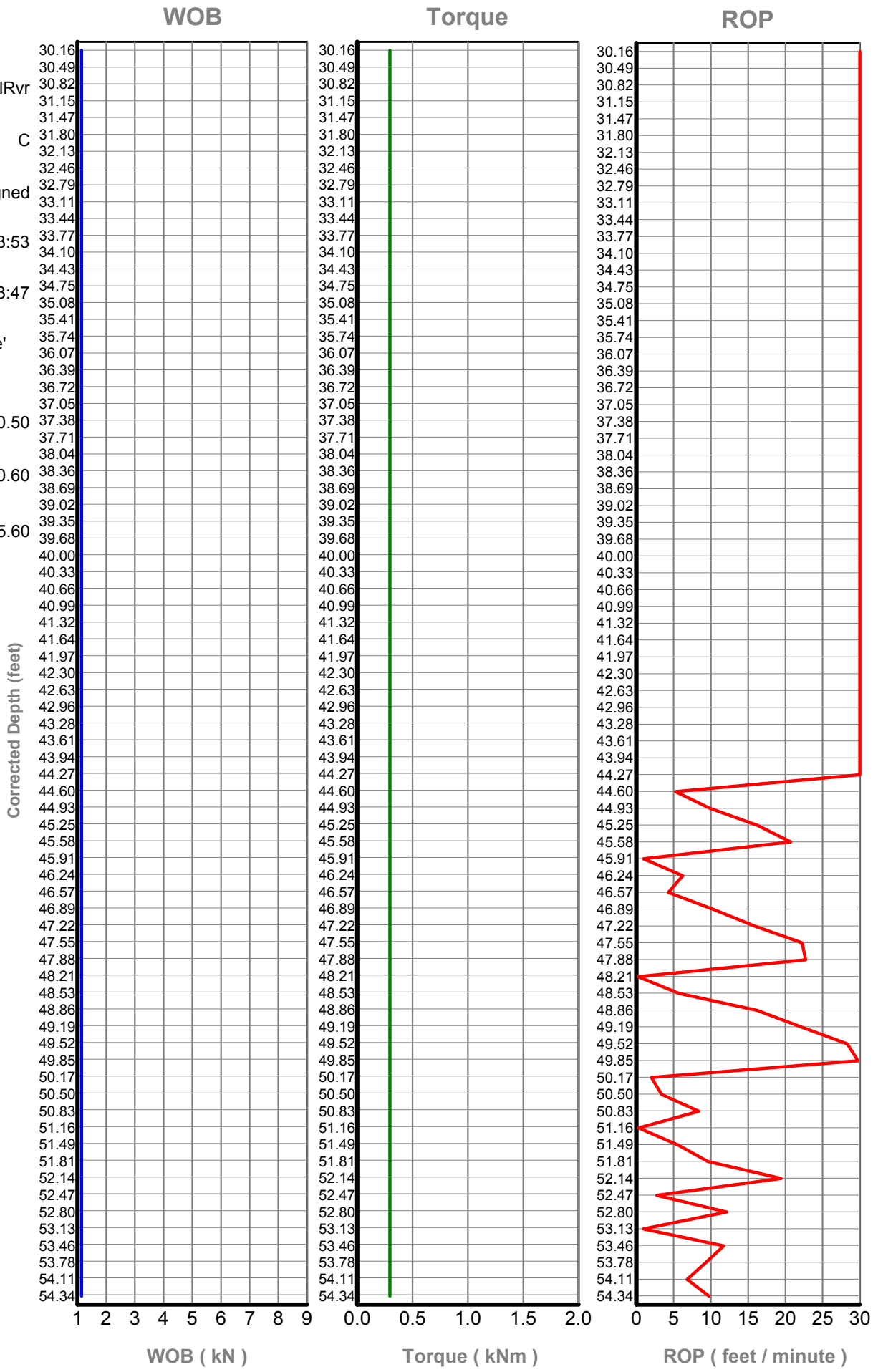
**End Date:**
5/2/2015 13:33:47

**Operator Note:**
'5.6 4.8 c Auto Complete'

**Northing:**
349,750.50

**Easting:**
225,820.60

**Tide (feet):**
5.60



## Hole: P145 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:03:34 | 32.48 | 30.28 | 1,146 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 21:03:34 | 32.81 | 30.61 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:35 | 33.14 | 30.94 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 21:03:35 | 33.46 | 31.26 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 21:03:35 | 33.79 | 31.59 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 21:03:36 | 34.12 | 31.92 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 21:03:36 | 34.45 | 32.25 | 1,147 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 21:03:36 | 34.78 | 32.58 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:37 | 35.11 | 32.91 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:37 | 35.43 | 33.23 | 1,153 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 21:03:38 | 35.76 | 33.56 | 1,153 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 21:03:38 | 36.09 | 33.89 | 1,136 | 0.54 | 0.17 | 62.1 |
| 5/3/2015 21:03:38 | 36.42 | 34.22 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:39 | 36.75 | 34.55 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:39 | 37.07 | 34.87 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/3/2015 21:03:39 | 37.40 | 35.20 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:40 | 37.73 | 35.53 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:40 | 38.06 | 35.86 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:40 | 38.39 | 36.19 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:40 | 38.71 | 36.51 | 1,140 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 21:03:41 | 39.04 | 36.84 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 21:03:41 | 39.37 | 37.17 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 21:03:41 | 39.70 | 37.50 | 1,125 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 21:03:42 | 40.03 | 37.83 | 1,125 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 21:03:42 | 40.35 | 38.15 | 1,118 | 0.54 | 0.17 | 61.1 |
| 5/3/2015 21:03:42 | 40.68 | 38.48 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 21:03:43 | 41.01 | 38.81 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 21:03:43 | 41.34 | 39.14 | 1,129 | 0.54 | 0.17 | 61.8 |
| 5/3/2015 21:03:43 | 41.67 | 39.47 | 1,129 | 0.54 | 0.17 | 61.8 |
| 5/3/2015 21:03:43 | 41.99 | 39.79 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 21:03:44 | 42.32 | 40.12 | 1,135 | 0.54 | 0.17 | 62.1 |
| 5/3/2015 21:03:44 | 42.65 | 40.45 | 1,135 | 0.54 | 0.17 | 62.1 |
| 5/3/2015 21:03:44 | 42.98 | 40.78 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 21:03:45 | 43.31 | 41.11 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 21:03:45 | 43.64 | 41.44 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 21:03:45 | 43.96 | 41.76 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 21:03:46 | 44.29 | 42.09 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 21:03:46 | 44.62 | 42.42 | 1,113 | 0.54 | 0.17 | 60.9 |
| 5/3/2015 21:03:46 | 44.95 | 42.75 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/3/2015 21:03:47 | 45.28 | 43.08 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/3/2015 21:03:47 | 45.60 | 43.40 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 21:03:47 | 45.93 | 43.73 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 21:03:47 | 46.26 | 44.06 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 21:03:48 | 46.59 | 44.39 | 1,138 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 21:03:49 | 46.92 | 44.72 | 1,138 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 21:04:03 | 47.24 | 45.04 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 21:04:04 | 47.57 | 45.37 | 196 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 21:04:06 | 47.90 | 45.70 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 21:04:08 | 48.23 | 46.03 | 194 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 21:04:13 | 48.56 | 46.36 | 121 | 0.54 | 0.17 | 6.6 |
| 5/3/2015 21:04:14 | 48.88 | 46.68 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 21:04:14 | 49.21 | 47.01 | 353 | 0.54 | 0.17 | 19.3 |
| 5/3/2015 21:04:15 | 49.54 | 47.34 | 484 | 0.54 | 0.17 | 26.5 |
| 5/3/2015 21:04:15 | 49.87 | 47.67 | 611 | 0.54 | 0.17 | 33.4 |
| 5/3/2015 21:04:16 | 50.20 | 48.00 | 577 | 0.54 | 0.17 | 31.6 |
| 5/3/2015 21:04:17 | 50.53 | 48.33 | 580 | 0.54 | 0.17 | 31.7 |
| 5/3/2015 21:04:17 | 50.85 | 48.65 | 606 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 21:04:18 | 51.18 | 48.98 | 605 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 21:04:18 | 51.51 | 49.31 | 605 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 21:04:18 | 51.84 | 49.64 | 653 | 0.54 | 0.17 | 35.7 |
| 5/3/2015 21:04:19 | 52.17 | 49.97 | 747 | 0.54 | 0.17 | 40.8 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:04:20 | 52.49 | 50.29 | 689 | 0.54 | 0.17 | 37.7 |
| 5/3/2015 21:04:20 | 52.82 | 50.62 | 656 | 0.54 | 0.17 | 35.9 |
| 5/3/2015 21:04:22 | 53.15 | 50.95 | 378 | 0.54 | 0.17 | 20.6 |
| 5/3/2015 21:04:25 | 53.48 | 51.28 | 149 | 0.54 | 0.17 | 8.1 |
| 5/3/2015 21:04:26 | 53.81 | 51.61 | 222 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 21:04:26 | 54.13 | 51.93 | 298 | 0.54 | 0.17 | 16.3 |
| 5/3/2015 21:04:27 | 54.46 | 52.26 | 386 | 0.54 | 0.17 | 21.1 |
| 5/3/2015 21:04:27 | 54.79 | 52.59 | 484 | 0.54 | 0.17 | 26.4 |
| 5/3/2015 21:04:28 | 55.12 | 52.92 | 566 | 0.54 | 0.17 | 30.9 |
| 5/3/2015 21:04:29 | 55.45 | 53.25 | 536 | 0.54 | 0.17 | 29.3 |
| 5/3/2015 21:04:29 | 55.77 | 53.57 | 519 | 0.54 | 0.17 | 28.4 |
| 5/3/2015 21:04:30 | 56.10 | 53.90 | 462 | 0.54 | 0.17 | 25.3 |
| 5/3/2015 21:04:40 | 56.43 | 54.23 | 17 | 0.54 | 0.17 | 0.9 |
| 5/3/2015 21:04:45 | 56.76 | 54.56 | 44 | 0.54 | 0.17 | 2.4 |
| 5/3/2015 21:04:46 | 56.96 | 54.76 | 169 | 0.54 | 0.17 | 9.2 |

## P145 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:52:48

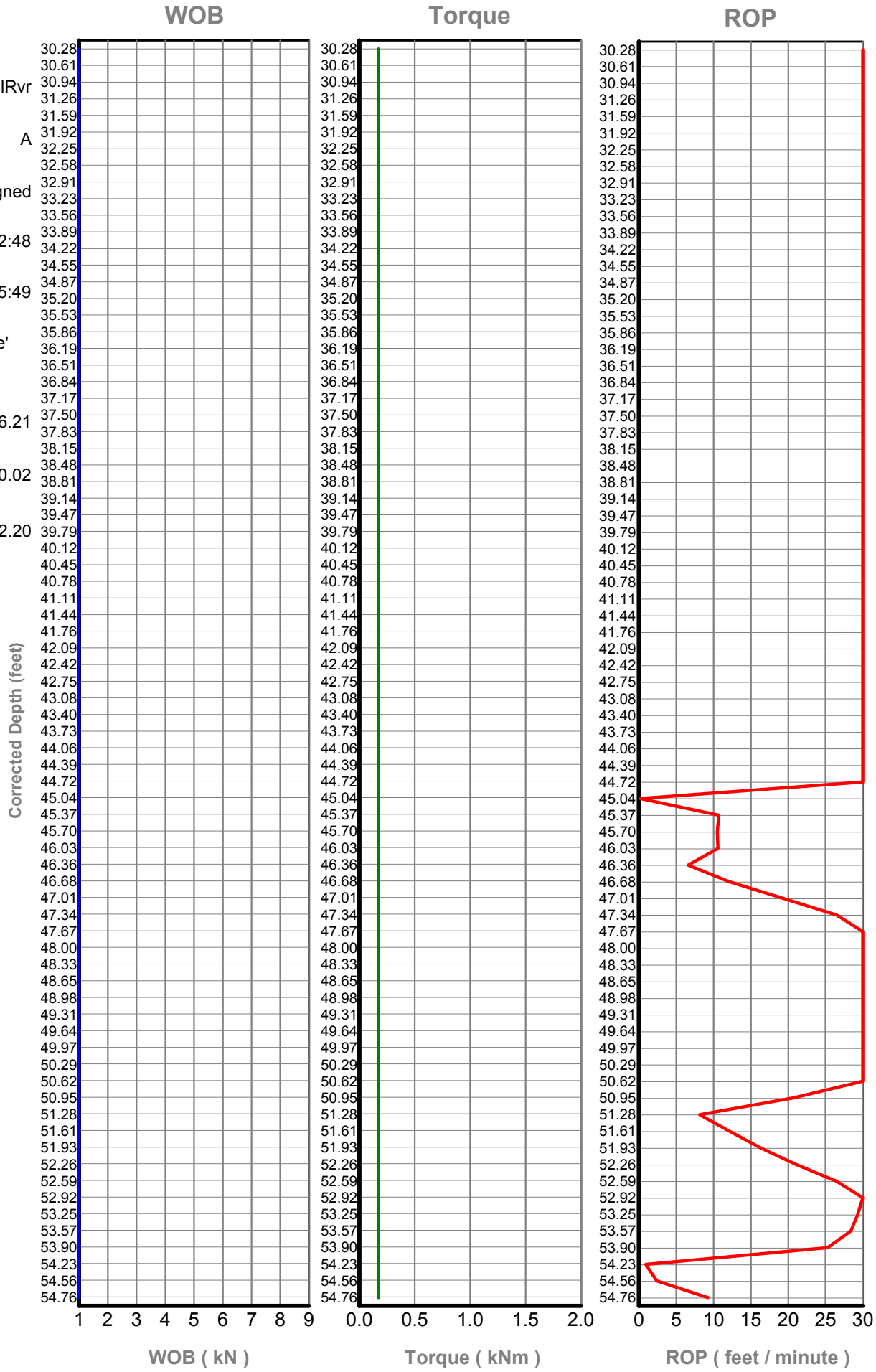
**End Date:**
5/3/2015 21:05:49

**Operator Note:**
'2.2 1.9 a Auto Complete'

**Northing:**
348,646.21

**Easting:**
224,200.02

**Tide (feet):**
2.20



## Hole: P146 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:05:14 | 32.48 | 30.08 | 509 | 0.27 | 0.10 | 27.8 |
| 5/3/2015 21:05:15 | 32.81 | 30.41 | 480 | 0.26 | 0.27 | 26.3 |
| 5/3/2015 21:05:16 | 33.14 | 30.74 | 480 | 0.26 | 0.42 | 26.3 |
| 5/3/2015 21:05:16 | 33.46 | 31.06 | 491 | 0.27 | 0.09 | 26.8 |
| 5/3/2015 21:05:18 | 33.79 | 31.39 | 500 | 0.29 | 0.46 | 27.3 |
| 5/3/2015 21:05:18 | 34.12 | 31.72 | 500 | 0.30 | 0.41 | 27.3 |
| 5/3/2015 21:05:19 | 34.45 | 32.05 | 508 | 0.28 | 0.17 | 27.8 |
| 5/3/2015 21:05:20 | 34.78 | 32.38 | 503 | 0.29 | 0.46 | 27.5 |
| 5/3/2015 21:05:20 | 35.11 | 32.71 | 503 | 0.28 | 0.25 | 27.5 |
| 5/3/2015 21:05:21 | 35.43 | 33.03 | 497 | 0.28 | 0.24 | 27.2 |
| 5/3/2015 21:05:22 | 35.76 | 33.36 | 508 | 0.30 | 0.32 | 27.8 |
| 5/3/2015 21:05:22 | 36.09 | 33.69 | 511 | 0.28 | 0.31 | 27.9 |
| 5/3/2015 21:05:23 | 36.42 | 34.02 | 511 | 0.28 | 0.21 | 27.9 |
| 5/3/2015 21:05:24 | 36.75 | 34.35 | 525 | 0.27 | 0.29 | 28.7 |
| 5/3/2015 21:05:24 | 37.07 | 34.67 | 517 | 0.28 | 0.20 | 28.3 |
| 5/3/2015 21:05:25 | 37.40 | 35.00 | 509 | 0.29 | 0.25 | 27.8 |
| 5/3/2015 21:05:26 | 37.73 | 35.33 | 509 | 0.31 | 0.42 | 27.8 |
| 5/3/2015 21:05:26 | 38.06 | 35.66 | 503 | 0.30 | 0.37 | 27.5 |
| 5/3/2015 21:05:27 | 38.39 | 35.99 | 503 | 0.30 | 0.43 | 27.5 |
| 5/3/2015 21:05:28 | 38.71 | 36.31 | 500 | 0.29 | 0.34 | 27.3 |
| 5/3/2015 21:05:29 | 39.04 | 36.64 | 500 | 0.29 | 0.10 | 27.3 |
| 5/3/2015 21:05:30 | 39.37 | 36.97 | 495 | 0.29 | 0.34 | 27.1 |
| 5/3/2015 21:05:30 | 39.70 | 37.30 | 500 | 0.31 | 0.44 | 27.4 |
| 5/3/2015 21:05:31 | 40.03 | 37.63 | 497 | 0.28 | 0.09 | 27.2 |
| 5/3/2015 21:05:32 | 40.35 | 37.95 | 506 | 0.31 | 0.41 | 27.7 |
| 5/3/2015 21:05:32 | 40.68 | 38.28 | 506 | 0.29 | 0.15 | 27.7 |
| 5/3/2015 21:05:33 | 41.01 | 38.61 | 503 | 0.29 | 0.10 | 27.5 |
| 5/3/2015 21:05:34 | 41.34 | 38.94 | 498 | 0.28 | 0.23 | 27.2 |
| 5/3/2015 21:05:34 | 41.67 | 39.27 | 498 | 0.28 | 0.15 | 27.2 |
| 5/3/2015 21:05:35 | 41.99 | 39.59 | 501 | 0.27 | 0.31 | 27.4 |
| 5/3/2015 21:05:36 | 42.32 | 39.92 | 502 | 0.28 | 0.31 | 27.4 |
| 5/3/2015 21:05:36 | 42.65 | 40.25 | 499 | 0.27 | 0.12 | 27.3 |
| 5/3/2015 21:05:37 | 42.98 | 40.58 | 503 | 0.30 | 0.33 | 27.5 |
| 5/3/2015 21:05:38 | 43.31 | 40.91 | 509 | 0.31 | 0.38 | 27.8 |
| 5/3/2015 21:05:39 | 43.64 | 41.24 | 509 | 0.29 | 0.38 | 27.8 |
| 5/3/2015 21:05:40 | 43.96 | 41.56 | 506 | 0.27 | 0.24 | 27.7 |
| 5/3/2015 21:05:40 | 44.29 | 41.89 | 512 | 0.28 | 0.19 | 28.0 |
| 5/3/2015 21:05:41 | 44.62 | 42.22 | 503 | 0.27 | 0.41 | 27.5 |
| 5/3/2015 21:05:42 | 44.95 | 42.55 | 506 | 0.27 | 0.44 | 27.7 |
| 5/3/2015 21:05:42 | 45.28 | 42.88 | 509 | 0.29 | 0.37 | 27.8 |
| 5/3/2015 21:05:43 | 45.60 | 43.20 | 515 | 0.31 | 0.37 | 28.1 |
| 5/3/2015 21:05:44 | 45.93 | 43.53 | 517 | 0.29 | 0.46 | 28.3 |
| 5/3/2015 21:05:44 | 46.26 | 43.86 | 518 | 0.29 | 0.22 | 28.3 |
| 5/3/2015 21:05:45 | 46.59 | 44.19 | 512 | 0.29 | 0.25 | 28.0 |
| 5/3/2015 21:05:46 | 46.92 | 44.52 | 509 | 0.27 | 0.10 | 27.8 |
| 5/3/2015 21:05:46 | 47.24 | 44.84 | 506 | 0.28 | 0.11 | 27.7 |
| 5/3/2015 21:05:47 | 47.57 | 45.17 | 483 | 0.27 | 0.48 | 26.4 |
| 5/3/2015 21:06:04 | 47.90 | 45.50 | 103 | 3.28 | 0.43 | 5.6 |
| 5/3/2015 21:06:05 | 48.23 | 45.83 | 216 | 3.62 | 0.45 | 11.8 |
| 5/3/2015 21:06:06 | 48.56 | 46.16 | 350 | 3.26 | 0.46 | 19.1 |
| 5/3/2015 21:06:11 | 48.88 | 46.48 | 44 | 3.03 | 0.44 | 2.4 |
| 5/3/2015 21:06:14 | 49.21 | 46.81 | 64 | 3.39 | 0.47 | 3.5 |
| 5/3/2015 21:06:24 | 49.54 | 47.14 | 88 | 2.88 | 0.47 | 4.8 |
| 5/3/2015 21:06:29 | 49.87 | 47.47 | 3 | 3.28 | 0.47 | 0.2 |
| 5/3/2015 21:06:34 | 50.20 | 47.80 | 10 | 2.42 | 0.41 | 0.5 |
| 5/3/2015 21:06:35 | 50.53 | 48.13 | 66 | 2.12 | 0.30 | 3.6 |
| 5/3/2015 21:06:36 | 50.85 | 48.45 | 178 | 1.90 | 0.29 | 9.7 |
| 5/3/2015 21:06:36 | 51.18 | 48.78 | 281 | 1.88 | 0.31 | 15.3 |
| 5/3/2015 21:06:37 | 51.51 | 49.11 | 389 | 2.19 | 0.38 | 21.3 |
| 5/3/2015 21:06:38 | 51.84 | 49.44 | 517 | 3.16 | 0.41 | 28.3 |
| 5/3/2015 21:06:38 | 52.17 | 49.77 | 494 | 2.62 | 0.41 | 27.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:06:39 | 52.49 | 50.09 | 503 | 1.76 | 0.22 | 27.5 |
| 5/3/2015 21:06:40 | 52.82 | 50.42 | 512 | 1.76 | 0.24 | 28.0 |
| 5/3/2015 21:06:41 | 53.15 | 50.75 | 526 | 2.22 | 0.30 | 28.8 |
| 5/3/2015 21:06:41 | 53.48 | 51.08 | 544 | 1.98 | 0.28 | 29.7 |
| 5/3/2015 21:06:42 | 53.81 | 51.41 | 532 | 2.69 | 0.36 | 29.1 |
| 5/3/2015 21:06:43 | 54.13 | 51.73 | 521 | 2.27 | 0.39 | 28.5 |
| 5/3/2015 21:06:44 | 54.46 | 52.06 | 480 | 2.55 | 0.39 | 26.2 |
| 5/3/2015 21:06:44 | 54.79 | 52.39 | 477 | 2.08 | 0.31 | 26.1 |
| 5/3/2015 21:06:45 | 55.12 | 52.72 | 482 | 2.14 | 0.29 | 26.4 |
| 5/3/2015 21:06:46 | 55.45 | 53.05 | 496 | 2.26 | 0.33 | 27.1 |
| 5/3/2015 21:06:46 | 55.77 | 53.37 | 514 | 2.99 | 0.43 | 28.1 |
| 5/3/2015 21:06:47 | 56.10 | 53.70 | 454 | 2.73 | 0.45 | 24.8 |
| 5/3/2015 21:06:48 | 56.43 | 54.03 | 353 | 2.42 | 0.43 | 19.3 |
| 5/3/2015 21:06:49 | 56.76 | 54.36 | 353 | 1.99 | 0.31 | 19.3 |
| 5/3/2015 21:06:50 | 57.09 | 54.69 | 393 | 2.12 | 0.33 | 21.5 |

## P146 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:02:56

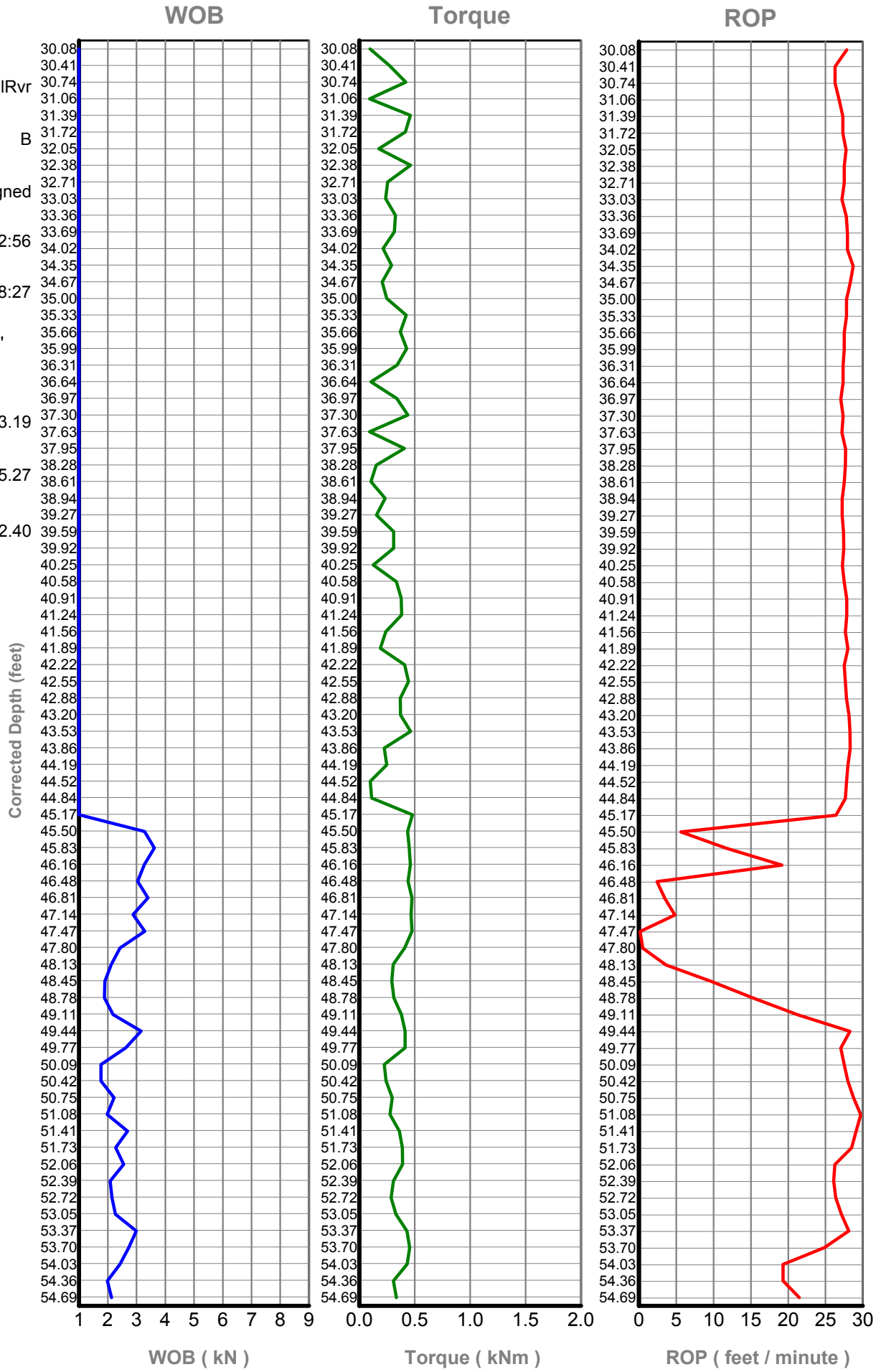
**End Date:**
5/3/2015 21:08:27

**Operator Note:**
'2.4 1.9b Auto Complete'

**Northing:**
348,683.19

**Easting:**
224,265.27

**Tide (feet):**
2.40



## Hole: P147 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:02:53 | 32.48 | 30.08 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:02:53 | 32.81 | 30.41 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:02:53 | 33.14 | 30.74 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:02:54 | 33.46 | 31.06 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:54 | 33.79 | 31.39 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:54 | 34.12 | 31.72 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:02:55 | 34.45 | 32.05 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:02:55 | 34.78 | 32.38 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:02:55 | 35.11 | 32.71 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:02:56 | 35.43 | 33.03 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:56 | 35.76 | 33.36 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:56 | 36.09 | 33.69 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:02:57 | 36.42 | 34.02 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:02:57 | 36.75 | 34.35 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:57 | 37.07 | 34.67 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:58 | 37.40 | 35.00 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:02:58 | 37.73 | 35.33 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:02:58 | 38.06 | 35.66 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 21:02:59 | 38.39 | 35.99 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 21:02:59 | 38.71 | 36.31 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:02:59 | 39.04 | 36.64 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:02:59 | 39.37 | 36.97 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:03:00 | 39.70 | 37.30 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:03:00 | 40.03 | 37.63 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:03:00 | 40.35 | 37.95 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:01 | 40.68 | 38.28 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:03:01 | 41.01 | 38.61 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:03:01 | 41.34 | 38.94 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:02 | 41.67 | 39.27 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:02 | 41.99 | 39.59 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:03:02 | 42.32 | 39.92 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:03:03 | 42.65 | 40.25 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:03:03 | 42.98 | 40.58 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:04 | 43.31 | 40.91 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:04 | 43.64 | 41.24 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 21:03:04 | 43.96 | 41.56 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:03:05 | 44.29 | 41.89 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:05 | 44.62 | 42.22 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:05 | 44.95 | 42.55 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:06 | 45.28 | 42.88 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:06 | 45.60 | 43.20 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:03:06 | 45.93 | 43.53 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 21:03:07 | 46.26 | 43.86 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 21:03:07 | 46.59 | 44.19 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 21:03:07 | 46.92 | 44.52 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:08 | 47.24 | 44.84 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:08 | 47.57 | 45.17 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:08 | 47.90 | 45.50 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:09 | 48.23 | 45.83 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:09 | 48.56 | 46.16 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 21:03:09 | 48.88 | 46.48 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 21:03:20 | 49.21 | 46.81 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:03:21 | 49.54 | 47.14 | 214 | 1.14 | 0.29 | 11.7 |
| 5/3/2015 21:03:21 | 49.87 | 47.47 | 314 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 21:03:22 | 50.20 | 47.80 | 420 | 1.14 | 0.29 | 23.0 |
| 5/3/2015 21:03:22 | 50.53 | 48.13 | 534 | 1.14 | 0.29 | 29.2 |
| 5/3/2015 21:03:29 | 50.85 | 48.45 | 115 | 1.14 | 0.29 | 6.3 |
| 5/3/2015 21:03:29 | 51.18 | 48.78 | 239 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 21:03:30 | 51.51 | 49.11 | 350 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 21:03:30 | 51.84 | 49.44 | 530 | 1.14 | 0.29 | 29.0 |
| 5/3/2015 21:03:40 | 52.17 | 49.77 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:03:40 | 52.49 | 50.09 | 88 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 21:03:41 | 52.82 | 50.42 | 214 | 1.14 | 0.29 | 11.7 |
| 5/3/2015 21:03:42 | 53.15 | 50.75 | 417 | 1.14 | 0.29 | 22.8 |
| 5/3/2015 21:03:42 | 53.48 | 51.08 | 523 | 1.14 | 0.29 | 28.6 |
| 5/3/2015 21:03:43 | 53.81 | 51.41 | 561 | 1.14 | 0.29 | 30.7 |
| 5/3/2015 21:03:43 | 54.13 | 51.73 | 572 | 1.14 | 0.29 | 31.3 |
| 5/3/2015 21:03:53 | 54.46 | 52.06 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:03:54 | 54.79 | 52.39 | 156 | 1.14 | 0.29 | 8.5 |
| 5/3/2015 21:03:55 | 55.12 | 52.72 | 265 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 21:03:55 | 55.45 | 53.05 | 376 | 1.14 | 0.29 | 20.6 |
| 5/3/2015 21:03:57 | 55.77 | 53.37 | 462 | 1.14 | 0.29 | 25.2 |
| 5/3/2015 21:03:59 | 56.10 | 53.70 | 146 | 1.14 | 0.29 | 8.0 |
| 5/3/2015 21:04:03 | 56.43 | 54.03 | 89 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 21:04:06 | 56.76 | 54.36 | 131 | 1.14 | 0.29 | 7.1 |
| 5/3/2015 21:04:07 | 57.09 | 54.69 | 180 | 1.14 | 0.29 | 9.8 |

## P147 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:01:54

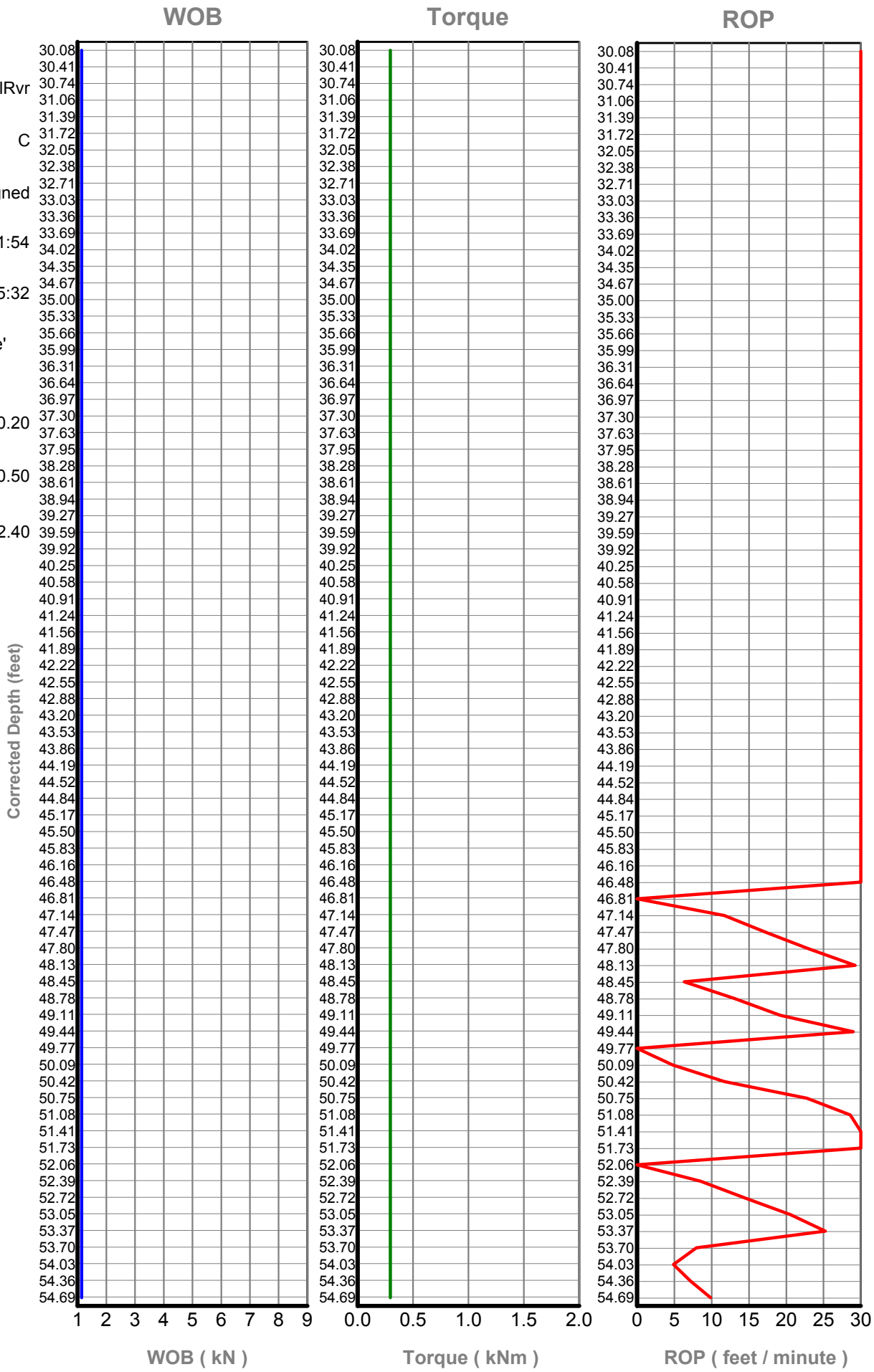
**End Date:**
5/3/2015 21:05:32

**Operator Note:**
'2.4 1.9 c Auto Complete'

**Northing:**
348,720.20

**Easting:**
224,330.50

**Tide (feet):**
2.40



## Hole: P148 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:05:21 | 32.15 | 30.05 | 896 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:22 | 32.48 | 30.38 | 895 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:23 | 32.81 | 30.71 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:23 | 33.14 | 31.04 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:23 | 33.46 | 31.36 | 896 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:24 | 33.79 | 31.69 | 896 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:24 | 34.12 | 32.02 | 895 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:25 | 34.45 | 32.35 | 895 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:25 | 34.78 | 32.68 | 898 | 0.54 | 0.17 | 49.1 |
| 5/3/2015 17:05:25 | 35.11 | 33.01 | 895 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:26 | 35.43 | 33.33 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:26 | 35.76 | 33.66 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:26 | 36.09 | 33.99 | 895 | 0.54 | 0.17 | 49.0 |
| 5/3/2015 17:05:27 | 36.42 | 34.32 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:27 | 36.75 | 34.65 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:28 | 37.07 | 34.97 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:28 | 37.40 | 35.30 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:28 | 37.73 | 35.63 | 890 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 17:05:29 | 38.06 | 35.96 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:29 | 38.39 | 36.29 | 890 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 17:05:30 | 38.71 | 36.61 | 890 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 17:05:30 | 39.04 | 36.94 | 892 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:30 | 39.37 | 37.27 | 893 | 0.54 | 0.17 | 48.8 |
| 5/3/2015 17:05:31 | 39.70 | 37.60 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:31 | 40.03 | 37.93 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:32 | 40.35 | 38.25 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:32 | 40.68 | 38.58 | 890 | 0.54 | 0.17 | 48.7 |
| 5/3/2015 17:05:32 | 41.01 | 38.91 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:33 | 41.34 | 39.24 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:33 | 41.67 | 39.57 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:33 | 41.99 | 39.89 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:34 | 42.32 | 40.22 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:35 | 42.65 | 40.55 | 882 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:05:35 | 42.98 | 40.88 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:36 | 43.31 | 41.21 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:36 | 43.64 | 41.54 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:36 | 43.96 | 41.86 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 17:05:37 | 44.29 | 42.19 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:37 | 44.62 | 42.52 | 887 | 0.54 | 0.17 | 48.5 |
| 5/3/2015 17:05:37 | 44.95 | 42.85 | 889 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 17:05:38 | 45.28 | 43.18 | 884 | 0.54 | 0.17 | 48.4 |
| 5/3/2015 17:05:38 | 45.60 | 43.50 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:05:39 | 45.93 | 43.83 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:05:39 | 46.26 | 44.16 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:05:39 | 46.59 | 44.49 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:05:40 | 46.92 | 44.82 | 870 | 0.54 | 0.17 | 47.6 |
| 5/3/2015 17:05:40 | 47.24 | 45.14 | 870 | 0.54 | 0.17 | 47.6 |
| 5/3/2015 17:05:53 | 47.57 | 45.47 | 32 | 0.54 | 0.17 | 1.8 |
| 5/3/2015 17:05:54 | 47.90 | 45.80 | 129 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 17:05:55 | 48.23 | 46.13 | 262 | 0.54 | 0.17 | 14.3 |
| 5/3/2015 17:06:06 | 48.56 | 46.46 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 17:06:18 | 48.88 | 46.78 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 17:06:23 | 49.21 | 47.11 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 17:06:30 | 49.54 | 47.44 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 17:06:40 | 49.87 | 47.77 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:06:59 | 50.20 | 48.10 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:07:13 | 50.53 | 48.43 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:07:32 | 50.85 | 48.75 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:07:50 | 51.18 | 49.08 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 17:08:00 | 51.37 | 49.27 | 20 | 0.54 | 0.17 | 1.1 |

## P148 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:04:06

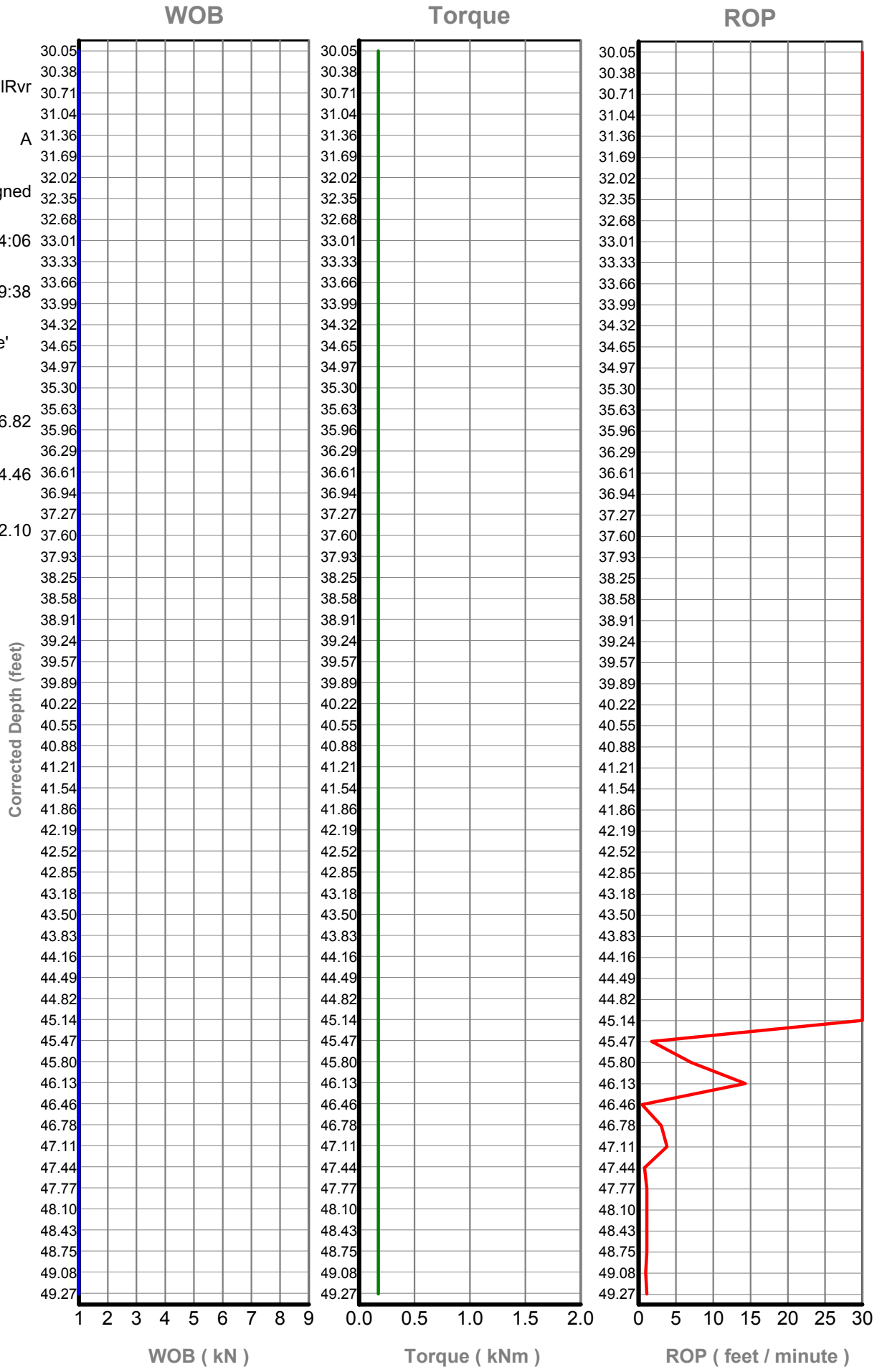
**End Date:**
5/3/2015 17:09:38

**Operator Note:**
'2.1 2.3 a Auto Complete'

**Northing:**
348,766.82

**Easting:**
224,394.46

**Tide (feet):**
2.10



## Hole: P149 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:05:18 | 32.15 | 30.05 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 17:05:18 | 32.48 | 30.38 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 17:05:18 | 32.81 | 30.71 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 17:05:19 | 33.14 | 31.04 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 17:05:19 | 33.46 | 31.36 | 1,335 | 0.25 | 0.36 | 73.0 |
| 5/3/2015 17:05:19 | 33.79 | 31.69 | 1,335 | 0.25 | 0.36 | 73.0 |
| 5/3/2015 17:05:20 | 34.12 | 32.02 | 1,327 | 0.26 | 0.37 | 72.5 |
| 5/3/2015 17:05:20 | 34.45 | 32.35 | 1,327 | 0.26 | 0.37 | 72.5 |
| 5/3/2015 17:05:20 | 34.78 | 32.68 | 1,327 | 0.25 | 0.38 | 72.5 |
| 5/3/2015 17:05:21 | 35.11 | 33.01 | 1,327 | 0.25 | 0.38 | 72.5 |
| 5/3/2015 17:05:21 | 35.43 | 33.33 | 1,317 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 17:05:21 | 35.76 | 33.66 | 1,317 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 17:05:21 | 36.09 | 33.99 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 17:05:22 | 36.42 | 34.32 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 17:05:22 | 36.75 | 34.65 | 1,325 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 17:05:22 | 37.07 | 34.97 | 1,325 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 17:05:22 | 37.40 | 35.30 | 1,325 | 0.24 | 0.36 | 72.4 |
| 5/3/2015 17:05:23 | 37.73 | 35.63 | 1,325 | 0.24 | 0.36 | 72.4 |
| 5/3/2015 17:05:23 | 38.06 | 35.96 | 1,319 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 17:05:23 | 38.39 | 36.29 | 1,330 | 0.24 | 0.36 | 72.7 |
| 5/3/2015 17:05:24 | 38.71 | 36.61 | 1,330 | 0.24 | 0.36 | 72.7 |
| 5/3/2015 17:05:24 | 39.04 | 36.94 | 1,321 | 0.26 | 0.37 | 72.2 |
| 5/3/2015 17:05:24 | 39.37 | 37.27 | 1,321 | 0.26 | 0.37 | 72.2 |
| 5/3/2015 17:05:24 | 39.70 | 37.60 | 1,324 | 0.25 | 0.37 | 72.4 |
| 5/3/2015 17:05:25 | 40.03 | 37.93 | 1,324 | 0.25 | 0.37 | 72.4 |
| 5/3/2015 17:05:25 | 40.35 | 38.25 | 1,319 | 0.27 | 0.38 | 72.1 |
| 5/3/2015 17:05:25 | 40.68 | 38.58 | 1,319 | 0.27 | 0.38 | 72.1 |
| 5/3/2015 17:05:25 | 41.01 | 38.91 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 17:05:26 | 41.34 | 39.24 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 17:05:26 | 41.67 | 39.57 | 1,330 | 0.25 | 0.38 | 72.7 |
| 5/3/2015 17:05:26 | 41.99 | 39.89 | 1,330 | 0.25 | 0.38 | 72.7 |
| 5/3/2015 17:05:26 | 42.32 | 40.22 | 1,327 | 0.25 | 0.35 | 72.6 |
| 5/3/2015 17:05:27 | 42.65 | 40.55 | 1,327 | 0.25 | 0.35 | 72.6 |
| 5/3/2015 17:05:27 | 42.98 | 40.88 | 1,327 | 0.25 | 0.36 | 72.6 |
| 5/3/2015 17:05:27 | 43.31 | 41.21 | 1,327 | 0.25 | 0.36 | 72.6 |
| 5/3/2015 17:05:27 | 43.64 | 41.54 | 1,333 | 0.26 | 0.35 | 72.9 |
| 5/3/2015 17:05:28 | 43.96 | 41.86 | 1,333 | 0.26 | 0.35 | 72.9 |
| 5/3/2015 17:05:28 | 44.29 | 42.19 | 1,327 | 0.25 | 0.36 | 72.5 |
| 5/3/2015 17:05:28 | 44.62 | 42.52 | 1,327 | 0.25 | 0.36 | 72.5 |
| 5/3/2015 17:05:28 | 44.95 | 42.85 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 17:05:29 | 45.28 | 43.18 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 17:05:29 | 45.60 | 43.50 | 1,327 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 17:05:29 | 45.93 | 43.83 | 1,327 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 17:05:29 | 46.26 | 44.16 | 1,338 | 0.25 | 0.38 | 73.2 |
| 5/3/2015 17:05:30 | 46.59 | 44.49 | 1,338 | 0.25 | 0.38 | 73.2 |
| 5/3/2015 17:05:30 | 46.92 | 44.82 | 1,333 | 0.26 | 0.35 | 72.9 |
| 5/3/2015 17:05:31 | 47.24 | 45.14 | 1,333 | 0.26 | 0.35 | 72.9 |
| 5/3/2015 17:05:31 | 47.57 | 45.47 | 1,325 | 0.23 | 0.45 | 72.4 |
| 5/3/2015 17:05:52 | 47.90 | 45.80 | 40 | 6.50 | 0.51 | 2.2 |
| 5/3/2015 17:05:55 | 48.23 | 46.13 | 121 | 2.72 | 0.46 | 6.6 |
| 5/3/2015 17:05:56 | 48.56 | 46.46 | 221 | 3.37 | 0.50 | 12.1 |
| 5/3/2015 17:06:03 | 48.88 | 46.78 | 56 | 3.79 | 0.47 | 3.1 |
| 5/3/2015 17:06:11 | 49.21 | 47.11 | 23 | 2.46 | 0.49 | 1.3 |
| 5/3/2015 17:06:30 | 49.54 | 47.44 | 14 | 2.39 | 0.49 | 0.8 |
| 5/3/2015 17:06:47 | 49.87 | 47.77 | 17 | 2.52 | 0.49 | 1.0 |
| 5/3/2015 17:06:52 | 49.97 | 47.87 | 23 | 2.76 | 0.48 | 1.3 |

## P149 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:03:35

**End Date:**
5/3/2015 17:07:56

**Operator Note:**
'2.1 2.3 b Auto Complete'

**Northing:**
348,807.01

**Easting:**
224,457.78

**Tide (feet):**
2.10



## Hole: P150 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:04:23 | 32.15 | 30.05 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:04:23 | 32.48 | 30.38 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:04:23 | 32.81 | 30.71 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:04:24 | 33.14 | 31.04 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:04:24 | 33.46 | 31.36 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 17:04:24 | 33.79 | 31.69 | 1,199 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 17:04:25 | 34.12 | 32.02 | 1,199 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 17:04:25 | 34.45 | 32.35 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:04:25 | 34.78 | 32.68 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:04:25 | 35.11 | 33.01 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 17:04:26 | 35.43 | 33.33 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 17:04:26 | 35.76 | 33.66 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 17:04:26 | 36.09 | 33.99 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 17:04:27 | 36.42 | 34.32 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 17:04:27 | 36.75 | 34.65 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 17:04:27 | 37.07 | 34.97 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 17:04:27 | 37.40 | 35.30 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 17:04:28 | 37.73 | 35.63 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 17:04:28 | 38.06 | 35.96 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 17:04:28 | 38.39 | 36.29 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 17:04:29 | 38.71 | 36.61 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 17:04:29 | 39.04 | 36.94 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:04:29 | 39.37 | 37.27 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:04:29 | 39.70 | 37.60 | 1,182 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:04:30 | 40.03 | 37.93 | 1,190 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 17:04:30 | 40.35 | 38.25 | 1,190 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 17:04:30 | 40.68 | 38.58 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:04:31 | 41.01 | 38.91 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:04:31 | 41.34 | 39.24 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 17:04:31 | 41.67 | 39.57 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 17:04:31 | 41.99 | 39.89 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:04:32 | 42.32 | 40.22 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:33 | 42.65 | 40.55 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:33 | 42.98 | 40.88 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:33 | 43.31 | 41.21 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:33 | 43.64 | 41.54 | 1,193 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 17:04:34 | 43.96 | 41.86 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 17:04:34 | 44.29 | 42.19 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 17:04:34 | 44.62 | 42.52 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:35 | 44.95 | 42.85 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:04:35 | 45.28 | 43.18 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:04:35 | 45.60 | 43.50 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:04:35 | 45.93 | 43.83 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:04:36 | 46.26 | 44.16 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:04:36 | 46.59 | 44.49 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:04:36 | 46.92 | 44.82 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:04:37 | 47.24 | 45.14 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:04:54 | 47.57 | 45.47 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 17:04:54 | 47.90 | 45.80 | 74 | 1.14 | 0.29 | 4.0 |
| 5/3/2015 17:04:55 | 48.23 | 46.13 | 171 | 1.14 | 0.29 | 9.3 |
| 5/3/2015 17:04:57 | 48.56 | 46.46 | 304 | 1.14 | 0.29 | 16.6 |
| 5/3/2015 17:05:01 | 48.88 | 46.78 | 53 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 17:05:15 | 49.21 | 47.11 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 17:05:38 | 49.54 | 47.44 | 16 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 17:05:59 | 49.87 | 47.77 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 17:06:20 | 50.20 | 48.10 | 16 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 17:06:32 | 50.28 | 48.18 | 0 | 1.14 | 0.29 | 0.0 |

## P150 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:03:23

**End Date:**
5/3/2015 17:08:30

**Operator Note:**
'2.1 2.3 c Auto Complete'

**Northing:**
348,847.20

**Easting:**
224,521.10

**Tide (feet):**
2.10



## Hole: P151 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:50:36 | 35.76 | 30.06 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/3/2015 13:50:36 | 36.09 | 30.39 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 13:50:36 | 36.42 | 30.72 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/3/2015 13:50:37 | 36.75 | 31.05 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/3/2015 13:50:37 | 37.07 | 31.37 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 13:50:37 | 37.40 | 31.70 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 13:50:38 | 37.73 | 32.03 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 13:50:38 | 38.06 | 32.36 | 1,027 | 0.54 | 0.17 | 56.2 |
| 5/3/2015 13:50:38 | 38.39 | 32.69 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 13:50:39 | 38.71 | 33.01 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 13:50:39 | 39.04 | 33.34 | 1,027 | 0.54 | 0.17 | 56.2 |
| 5/3/2015 13:50:39 | 39.37 | 33.67 | 1,027 | 0.54 | 0.17 | 56.2 |
| 5/3/2015 13:50:40 | 39.70 | 34.00 | 1,027 | 0.54 | 0.17 | 56.2 |
| 5/3/2015 13:50:40 | 40.03 | 34.33 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 13:50:41 | 40.35 | 34.65 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/3/2015 13:50:41 | 40.68 | 34.98 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/3/2015 13:50:41 | 41.01 | 35.31 | 1,021 | 0.54 | 0.17 | 55.9 |
| 5/3/2015 13:50:42 | 41.34 | 35.64 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/3/2015 13:50:42 | 41.67 | 35.97 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/3/2015 13:50:42 | 41.99 | 36.29 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 13:50:43 | 42.32 | 36.62 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 13:50:43 | 42.65 | 36.95 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 13:50:43 | 42.98 | 37.28 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 13:50:44 | 43.31 | 37.61 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 13:50:44 | 43.64 | 37.94 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 13:50:44 | 43.96 | 38.26 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/3/2015 13:50:45 | 44.29 | 38.59 | 1,007 | 0.54 | 0.17 | 55.1 |
| 5/3/2015 13:50:45 | 44.62 | 38.92 | 1,007 | 0.54 | 0.17 | 55.1 |
| 5/3/2015 13:50:45 | 44.95 | 39.25 | 1,007 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 13:50:46 | 45.28 | 39.58 | 1,010 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 13:50:46 | 45.60 | 39.90 | 1,022 | 0.54 | 0.17 | 55.9 |
| 5/3/2015 13:50:47 | 45.93 | 40.23 | 1,022 | 0.54 | 0.17 | 55.9 |
| 5/3/2015 13:50:47 | 46.26 | 40.56 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 13:50:47 | 46.59 | 40.89 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/3/2015 13:50:48 | 46.92 | 41.22 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/3/2015 13:50:48 | 47.24 | 41.54 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 13:50:48 | 47.57 | 41.87 | 993 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:49 | 47.90 | 42.20 | 993 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:49 | 48.23 | 42.53 | 993 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:49 | 48.56 | 42.86 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 13:50:50 | 48.88 | 43.18 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 13:50:50 | 49.21 | 43.51 | 1,004 | 0.54 | 0.17 | 54.9 |
| 5/3/2015 13:50:50 | 49.54 | 43.84 | 992 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:51 | 49.87 | 44.17 | 992 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:51 | 50.20 | 44.50 | 992 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 13:50:51 | 50.53 | 44.83 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 13:50:52 | 50.85 | 45.15 | 1,001 | 0.54 | 0.17 | 54.8 |
| 5/3/2015 13:51:05 | 51.18 | 45.48 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 13:51:05 | 51.51 | 45.81 | 138 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 13:51:07 | 51.84 | 46.14 | 309 | 0.54 | 0.17 | 16.9 |
| 5/3/2015 13:51:08 | 52.17 | 46.47 | 297 | 0.54 | 0.17 | 16.2 |
| 5/3/2015 13:51:09 | 52.49 | 46.79 | 274 | 0.54 | 0.17 | 15.0 |
| 5/3/2015 13:51:11 | 52.82 | 47.12 | 247 | 0.54 | 0.17 | 13.5 |
| 5/3/2015 13:51:13 | 53.15 | 47.45 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 13:51:17 | 53.48 | 47.78 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 13:51:20 | 53.81 | 48.11 | 111 | 0.54 | 0.17 | 6.1 |
| 5/3/2015 13:51:41 | 54.13 | 48.43 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 13:51:54 | 54.46 | 48.76 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 13:51:57 | 54.79 | 49.09 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 13:51:59 | 55.12 | 49.42 | 169 | 0.54 | 0.17 | 9.3 |
| 5/3/2015 13:52:03 | 55.45 | 49.75 | 95 | 0.54 | 0.17 | 5.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 13:52:09 | 55.77 | 50.07 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 13:52:13 | 56.10 | 50.40 | 88 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 13:52:18 | 56.43 | 50.73 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 13:52:21 | 56.76 | 51.06 | 116 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 13:52:25 | 57.09 | 51.39 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 13:52:29 | 57.41 | 51.71 | 92 | 0.54 | 0.17 | 5.0 |
| 5/3/2015 13:52:33 | 57.74 | 52.04 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 13:52:38 | 58.07 | 52.37 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 13:52:43 | 58.40 | 52.70 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 13:52:46 | 58.73 | 53.03 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 13:52:50 | 59.06 | 53.36 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 13:52:55 | 59.38 | 53.68 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 13:53:01 | 59.71 | 54.01 | 50 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 13:53:12 | 60.04 | 54.34 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 13:53:23 | 60.37 | 54.67 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 13:53:33 | 60.70 | 55.00 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 13:53:35 | 60.76 | 55.06 | 29 | 0.54 | 0.17 | 1.6 |

## P151 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:48:45

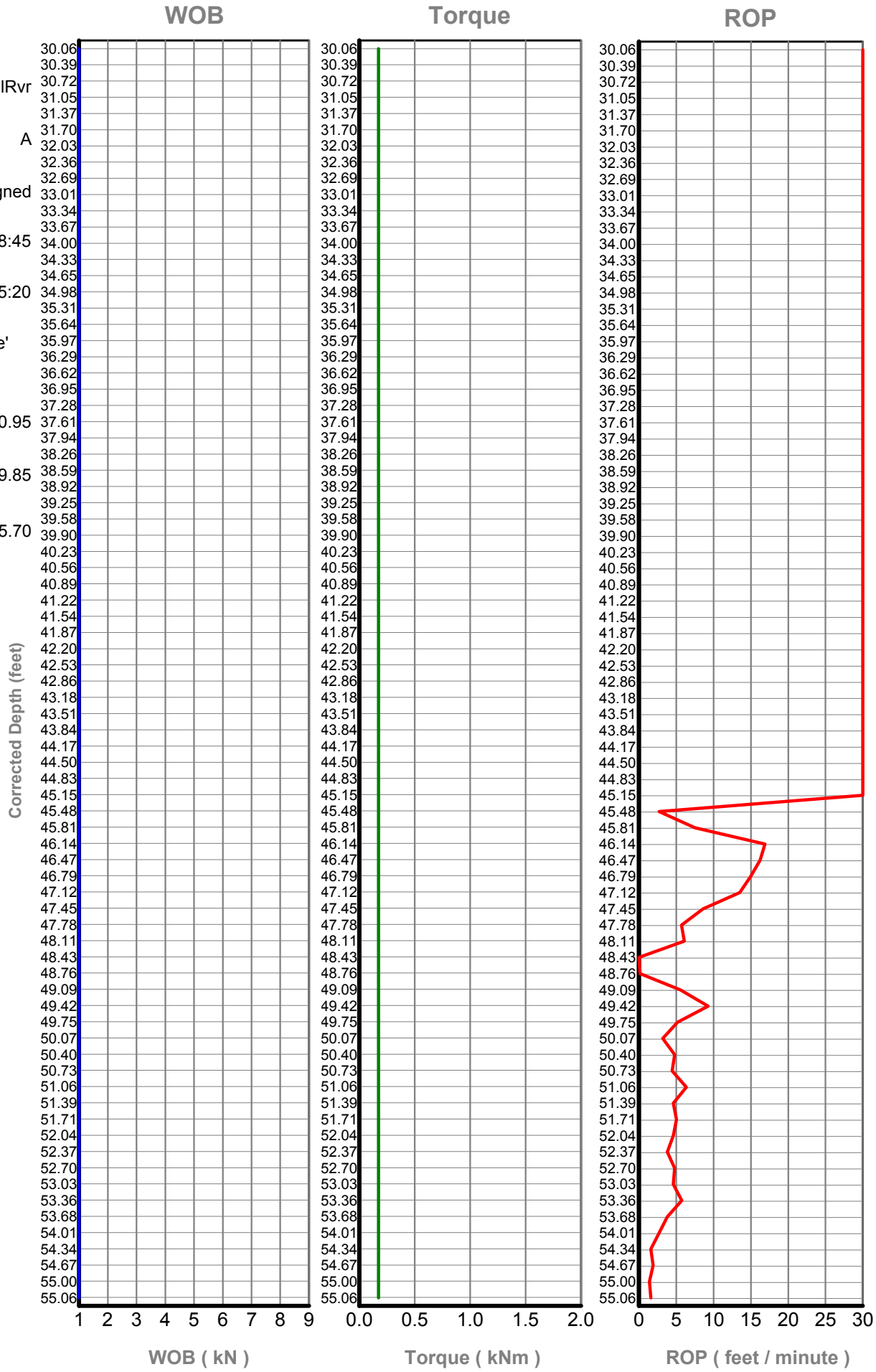
**End Date:**
5/3/2015 13:55:20

**Operator Note:**
'5.7 5.8 a Auto Complete'

**Northing:**
348,890.95

**Easting:**
224,589.85

**Tide (feet):**
5.70



## Hole: P152 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:50:09 | 35.76 | 30.06 | 1,307 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:10 | 36.09 | 30.39 | 1,307 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:10 | 36.42 | 30.72 | 1,299 | 0.26 | 0.39 | 71.0 |
| 5/3/2015 13:50:10 | 36.75 | 31.05 | 1,299 | 0.26 | 0.39 | 71.0 |
| 5/3/2015 13:50:10 | 37.07 | 31.37 | 1,282 | 0.26 | 0.39 | 70.1 |
| 5/3/2015 13:50:11 | 37.40 | 31.70 | 1,282 | 0.26 | 0.39 | 70.1 |
| 5/3/2015 13:50:11 | 37.73 | 32.03 | 1,282 | 0.26 | 0.38 | 70.1 |
| 5/3/2015 13:50:11 | 38.06 | 32.36 | 1,296 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 13:50:12 | 38.39 | 32.69 | 1,296 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 13:50:12 | 38.71 | 33.01 | 1,294 | 0.26 | 0.39 | 70.7 |
| 5/3/2015 13:50:12 | 39.04 | 33.34 | 1,294 | 0.26 | 0.39 | 70.7 |
| 5/3/2015 13:50:12 | 39.37 | 33.67 | 1,297 | 0.26 | 0.37 | 70.9 |
| 5/3/2015 13:50:13 | 39.70 | 34.00 | 1,297 | 0.26 | 0.37 | 70.9 |
| 5/3/2015 13:50:13 | 40.03 | 34.33 | 1,308 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:13 | 40.35 | 34.65 | 1,308 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:13 | 40.68 | 34.98 | 1,332 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:50:14 | 41.01 | 35.31 | 1,332 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:50:14 | 41.34 | 35.64 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/3/2015 13:50:14 | 41.67 | 35.97 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/3/2015 13:50:14 | 41.99 | 36.29 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 13:50:15 | 42.32 | 36.62 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 13:50:15 | 42.65 | 36.95 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 13:50:15 | 42.98 | 37.28 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 13:50:15 | 43.31 | 37.61 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 13:50:16 | 43.64 | 37.94 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 13:50:16 | 43.96 | 38.26 | 1,297 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 13:50:16 | 44.29 | 38.59 | 1,297 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 13:50:16 | 44.62 | 38.92 | 1,297 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 13:50:17 | 44.95 | 39.25 | 1,297 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 13:50:17 | 45.28 | 39.58 | 1,315 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 13:50:17 | 45.60 | 39.90 | 1,315 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 13:50:17 | 45.93 | 40.23 | 1,304 | 0.25 | 0.37 | 71.3 |
| 5/3/2015 13:50:18 | 46.26 | 40.56 | 1,307 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:18 | 46.59 | 40.89 | 1,307 | 0.26 | 0.37 | 71.5 |
| 5/3/2015 13:50:18 | 46.92 | 41.22 | 1,310 | 0.26 | 0.37 | 71.6 |
| 5/3/2015 13:50:19 | 47.24 | 41.54 | 1,310 | 0.26 | 0.37 | 71.6 |
| 5/3/2015 13:50:19 | 47.57 | 41.87 | 1,331 | 0.26 | 0.38 | 72.8 |
| 5/3/2015 13:50:20 | 47.90 | 42.20 | 1,331 | 0.26 | 0.38 | 72.8 |
| 5/3/2015 13:50:20 | 48.23 | 42.53 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 13:50:20 | 48.56 | 42.86 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 13:50:20 | 48.88 | 43.18 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 13:50:21 | 49.21 | 43.51 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 13:50:21 | 49.54 | 43.84 | 1,332 | 0.24 | 0.38 | 72.8 |
| 5/3/2015 13:50:21 | 49.87 | 44.17 | 1,332 | 0.24 | 0.38 | 72.8 |
| 5/3/2015 13:50:29 | 50.20 | 44.50 | 31 | 3.48 | 0.44 | 1.7 |
| 5/3/2015 13:50:30 | 50.53 | 44.83 | 146 | 2.62 | 0.45 | 8.0 |
| 5/3/2015 13:50:31 | 50.85 | 45.15 | 246 | 2.20 | 0.42 | 13.5 |
| 5/3/2015 13:50:36 | 51.18 | 45.48 | 40 | 3.64 | 0.47 | 2.2 |
| 5/3/2015 13:50:38 | 51.51 | 45.81 | 194 | 5.27 | 0.47 | 10.6 |
| 5/3/2015 13:50:43 | 51.84 | 46.14 | 93 | 2.71 | 0.48 | 5.1 |
| 5/3/2015 13:50:47 | 52.17 | 46.47 | 37 | 2.67 | 0.42 | 2.0 |
| 5/3/2015 13:50:51 | 52.49 | 46.79 | 82 | 3.19 | 0.47 | 4.5 |
| 5/3/2015 13:50:53 | 52.82 | 47.12 | 159 | 3.43 | 0.47 | 8.7 |
| 5/3/2015 13:50:55 | 53.15 | 47.45 | 162 | 3.16 | 0.47 | 8.9 |
| 5/3/2015 13:50:57 | 53.48 | 47.78 | 184 | 3.09 | 0.48 | 10.1 |
| 5/3/2015 13:51:09 | 53.81 | 48.11 | 38 | 3.74 | 0.48 | 2.1 |
| 5/3/2015 13:51:18 | 54.13 | 48.43 | 26 | 2.56 | 0.48 | 1.4 |
| 5/3/2015 13:51:32 | 54.46 | 48.76 | 28 | 2.57 | 0.48 | 1.6 |
| 5/3/2015 13:51:45 | 54.79 | 49.09 | 25 | 2.23 | 0.48 | 1.4 |
| 5/3/2015 13:51:49 | 54.90 | 49.20 | 23 | 2.63 | 0.48 | 1.3 |

## P152 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:48:12

**End Date:**
5/3/2015 13:53:58

**Operator Note:**
'5.7 5.8 b Auto Complete'

**Northing:**
348,927.49

**Easting:**
224,655.35

**Tide (feet):**
5.70



## Hole: P153 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:49:24 | 35.76 | 30.06 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:24 | 36.09 | 30.39 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:24 | 36.42 | 30.72 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:25 | 36.75 | 31.05 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:25 | 37.07 | 31.37 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:49:26 | 37.40 | 31.70 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:49:26 | 37.73 | 32.03 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:26 | 38.06 | 32.36 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:49:27 | 38.39 | 32.69 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:49:27 | 38.71 | 33.01 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 13:49:27 | 39.04 | 33.34 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 13:49:27 | 39.37 | 33.67 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:49:28 | 39.70 | 34.00 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 13:49:28 | 40.03 | 34.33 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 13:49:28 | 40.35 | 34.65 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:29 | 40.68 | 34.98 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:29 | 41.01 | 35.31 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:49:29 | 41.34 | 35.64 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:49:30 | 41.67 | 35.97 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:49:30 | 41.99 | 36.29 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:49:30 | 42.32 | 36.62 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:49:30 | 42.65 | 36.95 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:49:31 | 42.98 | 37.28 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:49:31 | 43.31 | 37.61 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:49:31 | 43.64 | 37.94 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:32 | 43.96 | 38.26 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:32 | 44.29 | 38.59 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:49:32 | 44.62 | 38.92 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:33 | 44.95 | 39.25 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:33 | 45.28 | 39.58 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:49:33 | 45.60 | 39.90 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:49:33 | 45.93 | 40.23 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:34 | 46.26 | 40.56 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:49:34 | 46.59 | 40.89 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 13:49:34 | 46.92 | 41.22 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:49:35 | 47.24 | 41.54 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:49:35 | 47.57 | 41.87 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 13:49:35 | 47.90 | 42.20 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:49:36 | 48.23 | 42.53 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:49:36 | 48.56 | 42.86 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 13:49:53 | 48.88 | 43.18 | 91 | 1.14 | 0.29 | 5.0 |
| 5/3/2015 13:49:55 | 49.21 | 43.51 | 178 | 1.14 | 0.29 | 9.8 |
| 5/3/2015 13:50:01 | 49.54 | 43.84 | 81 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 13:50:02 | 49.87 | 44.17 | 163 | 1.14 | 0.29 | 8.9 |
| 5/3/2015 13:50:08 | 50.20 | 44.50 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 13:50:33 | 50.53 | 44.83 | 32 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 13:50:45 | 50.85 | 45.15 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:50:57 | 51.18 | 45.48 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:51:10 | 51.51 | 45.81 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:51:15 | 51.65 | 45.95 | 32 | 1.14 | 0.29 | 1.7 |

## P153 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:48:23

**End Date:**
5/3/2015 13:52:42

**Operator Note:**
'5.7 5.8 c Auto Complete'

**Northing:**
348,964.00

**Easting:**
224,720.90

**Tide (feet):**
5.70



## Hole: P154 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:46:23 | 35.11 | 30.31 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:23 | 35.43 | 30.63 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:24 | 35.76 | 30.96 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:24 | 36.09 | 31.29 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:24 | 36.42 | 31.62 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 10:46:25 | 36.75 | 31.95 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:25 | 37.07 | 32.27 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:26 | 37.40 | 32.60 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:26 | 37.73 | 32.93 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 10:46:27 | 38.06 | 33.26 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:27 | 38.39 | 33.59 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 10:46:28 | 38.71 | 33.91 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 10:46:28 | 39.04 | 34.24 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:28 | 39.37 | 34.57 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 10:46:29 | 39.70 | 34.90 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 10:46:29 | 40.03 | 35.23 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:29 | 40.35 | 35.55 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:30 | 40.68 | 35.88 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:30 | 41.01 | 36.21 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 10:46:30 | 41.34 | 36.54 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:31 | 41.67 | 36.87 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:31 | 41.99 | 37.19 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:32 | 42.32 | 37.52 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:32 | 42.65 | 37.85 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:32 | 42.98 | 38.18 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:33 | 43.31 | 38.51 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:33 | 43.64 | 38.84 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:33 | 43.96 | 39.16 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:34 | 44.29 | 39.49 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:34 | 44.62 | 39.82 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 10:46:34 | 44.95 | 40.15 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:35 | 45.28 | 40.48 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:35 | 45.60 | 40.80 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:36 | 45.93 | 41.13 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 10:46:36 | 46.26 | 41.46 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:36 | 46.59 | 41.79 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:37 | 46.92 | 42.12 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:37 | 47.24 | 42.44 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:38 | 47.57 | 42.77 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 10:46:38 | 47.90 | 43.10 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 10:46:39 | 48.23 | 43.43 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 10:46:39 | 48.56 | 43.76 | 928 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 10:46:39 | 48.88 | 44.08 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 10:47:11 | 49.21 | 44.41 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 10:47:26 | 49.54 | 44.74 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 10:47:42 | 49.87 | 45.07 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 10:47:58 | 50.20 | 45.40 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 10:48:04 | 50.33 | 45.53 | 23 | 0.54 | 0.17 | 1.3 |

## P154 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:44:47

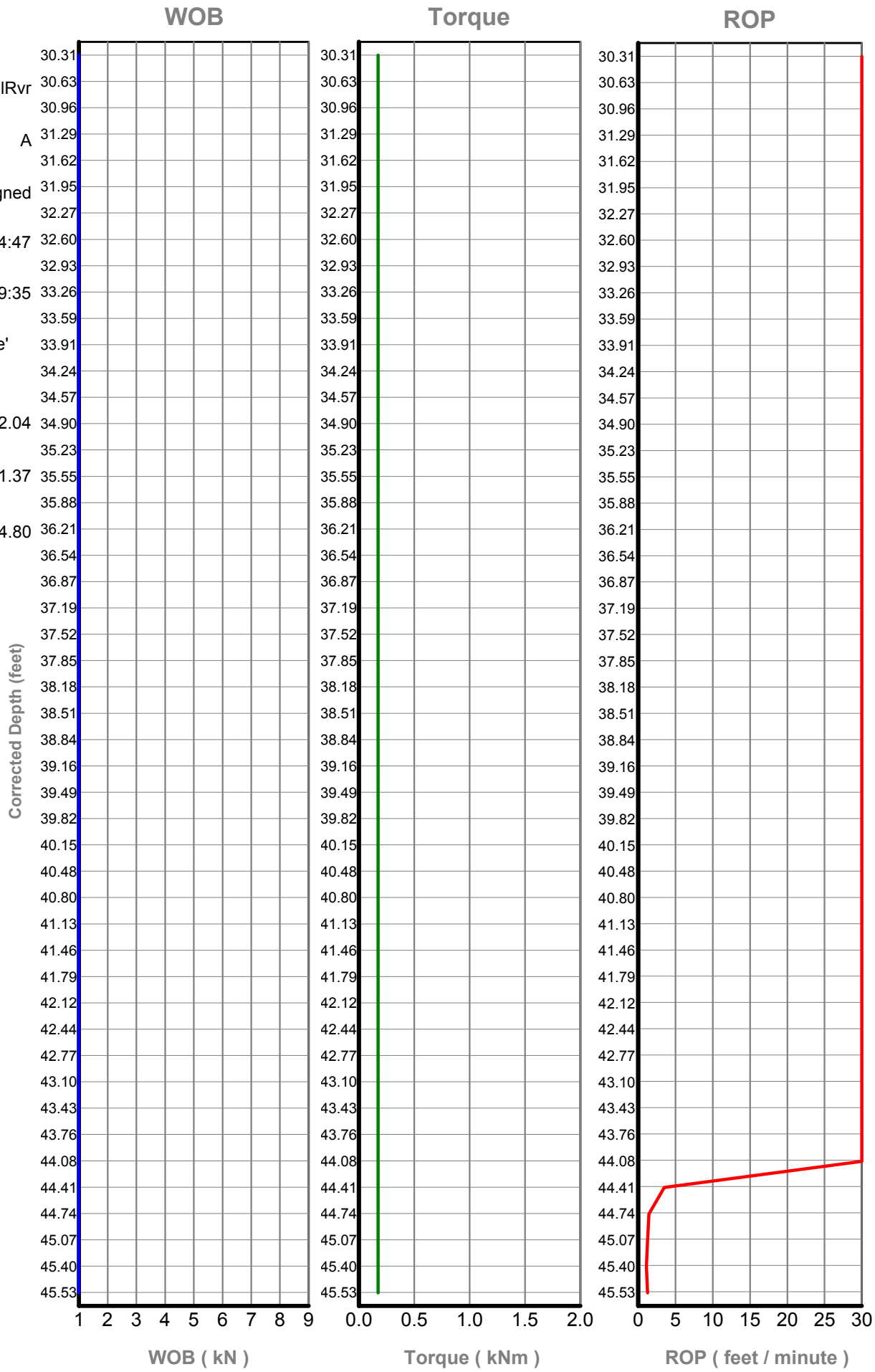
**End Date:**
5/3/2015 10:49:35

**Operator Note:**
'4.8 4.7 a Auto Complete'

**Northing:**
349,012.04

**Easting:**
224,781.37

**Tide (feet):**
4.80



## Hole: P155 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:46:06 | 35.11 | 30.31 | 1,263 | 0.29 | 0.32 | 69.1 |
| 5/3/2015 10:46:06 | 35.43 | 30.63 | 1,260 | 0.28 | 0.26 | 68.9 |
| 5/3/2015 10:46:07 | 35.76 | 30.96 | 1,260 | 0.28 | 0.26 | 68.9 |
| 5/3/2015 10:46:07 | 36.09 | 31.29 | 1,260 | 0.29 | 0.36 | 68.9 |
| 5/3/2015 10:46:07 | 36.42 | 31.62 | 1,260 | 0.29 | 0.36 | 68.9 |
| 5/3/2015 10:46:07 | 36.75 | 31.95 | 1,250 | 0.27 | 0.28 | 68.4 |
| 5/3/2015 10:46:08 | 37.07 | 32.27 | 1,250 | 0.27 | 0.28 | 68.4 |
| 5/3/2015 10:46:08 | 37.40 | 32.60 | 1,272 | 0.23 | 0.37 | 69.6 |
| 5/3/2015 10:46:08 | 37.73 | 32.93 | 1,272 | 0.23 | 0.37 | 69.6 |
| 5/3/2015 10:46:08 | 38.06 | 33.26 | 1,263 | 0.25 | 0.41 | 69.1 |
| 5/3/2015 10:46:09 | 38.39 | 33.59 | 1,263 | 0.25 | 0.41 | 69.1 |
| 5/3/2015 10:46:09 | 38.71 | 33.91 | 1,255 | 0.23 | 0.39 | 68.6 |
| 5/3/2015 10:46:10 | 39.04 | 34.24 | 1,258 | 0.27 | 0.39 | 68.8 |
| 5/3/2015 10:46:10 | 39.37 | 34.57 | 1,258 | 0.27 | 0.39 | 68.8 |
| 5/3/2015 10:46:10 | 39.70 | 34.90 | 1,260 | 0.29 | 0.37 | 68.9 |
| 5/3/2015 10:46:11 | 40.03 | 35.23 | 1,260 | 0.29 | 0.37 | 68.9 |
| 5/3/2015 10:46:11 | 40.35 | 35.55 | 1,241 | 0.29 | 0.26 | 67.9 |
| 5/3/2015 10:46:11 | 40.68 | 35.88 | 1,241 | 0.29 | 0.26 | 67.9 |
| 5/3/2015 10:46:11 | 41.01 | 36.21 | 1,249 | 0.29 | 0.31 | 68.3 |
| 5/3/2015 10:46:12 | 41.34 | 36.54 | 1,249 | 0.29 | 0.31 | 68.3 |
| 5/3/2015 10:46:12 | 41.67 | 36.87 | 1,250 | 0.27 | 0.26 | 68.3 |
| 5/3/2015 10:46:12 | 41.99 | 37.19 | 1,250 | 0.27 | 0.26 | 68.3 |
| 5/3/2015 10:46:12 | 42.32 | 37.52 | 1,260 | 0.23 | 0.30 | 68.9 |
| 5/3/2015 10:46:13 | 42.65 | 37.85 | 1,255 | 0.24 | 0.40 | 68.6 |
| 5/3/2015 10:46:13 | 42.98 | 38.18 | 1,255 | 0.24 | 0.40 | 68.6 |
| 5/3/2015 10:46:13 | 43.31 | 38.51 | 1,262 | 0.24 | 0.31 | 69.0 |
| 5/3/2015 10:46:14 | 43.64 | 38.84 | 1,262 | 0.24 | 0.31 | 69.0 |
| 5/3/2015 10:46:14 | 43.96 | 39.16 | 1,252 | 0.26 | 0.41 | 68.5 |
| 5/3/2015 10:46:14 | 44.29 | 39.49 | 1,252 | 0.26 | 0.41 | 68.5 |
| 5/3/2015 10:46:14 | 44.62 | 39.82 | 1,252 | 0.29 | 0.37 | 68.5 |
| 5/3/2015 10:46:15 | 44.95 | 40.15 | 1,252 | 0.29 | 0.37 | 68.5 |
| 5/3/2015 10:46:15 | 45.28 | 40.48 | 1,249 | 0.29 | 0.32 | 68.3 |
| 5/3/2015 10:46:15 | 45.60 | 40.80 | 1,249 | 0.29 | 0.32 | 68.3 |
| 5/3/2015 10:46:15 | 45.93 | 41.13 | 1,252 | 0.29 | 0.36 | 68.4 |
| 5/3/2015 10:46:16 | 46.26 | 41.46 | 1,247 | 0.29 | 0.30 | 68.2 |
| 5/3/2015 10:46:16 | 46.59 | 41.79 | 1,247 | 0.29 | 0.30 | 68.2 |
| 5/3/2015 10:46:16 | 46.92 | 42.12 | 1,263 | 0.27 | 0.28 | 69.1 |
| 5/3/2015 10:46:17 | 47.24 | 42.44 | 1,263 | 0.27 | 0.28 | 69.1 |
| 5/3/2015 10:46:17 | 47.57 | 42.77 | 1,254 | 0.24 | 0.33 | 68.6 |
| 5/3/2015 10:46:17 | 47.90 | 43.10 | 1,254 | 0.24 | 0.33 | 68.6 |
| 5/3/2015 10:46:17 | 48.23 | 43.43 | 1,258 | 0.26 | 0.30 | 68.8 |
| 5/3/2015 10:46:18 | 48.56 | 43.76 | 1,258 | 0.26 | 0.30 | 68.8 |
| 5/3/2015 10:46:18 | 48.88 | 44.08 | 1,244 | 0.23 | 0.40 | 68.0 |
| 5/3/2015 10:46:24 | 49.21 | 44.41 | 0 | 2.74 | 0.43 | 0.0 |
| 5/3/2015 10:46:26 | 49.54 | 44.74 | 70 | 7.19 | 0.49 | 3.8 |
| 5/3/2015 10:46:30 | 49.87 | 45.07 | 72 | 4.01 | 0.47 | 3.9 |
| 5/3/2015 10:46:45 | 50.20 | 45.40 | 9 | 2.75 | 0.44 | 0.5 |
| 5/3/2015 10:46:45 | 50.53 | 45.73 | 59 | 3.69 | 0.44 | 3.2 |
| 5/3/2015 10:46:50 | 50.85 | 46.05 | 0 | 2.46 | 0.40 | 0.0 |
| 5/3/2015 10:46:51 | 51.18 | 46.38 | 58 | 3.28 | 0.44 | 3.2 |
| 5/3/2015 10:46:52 | 51.51 | 46.71 | 260 | 2.70 | 0.47 | 14.2 |
| 5/3/2015 10:47:02 | 51.84 | 47.04 | 76 | 2.92 | 0.45 | 4.2 |
| 5/3/2015 10:47:03 | 52.17 | 47.37 | 168 | 3.56 | 0.47 | 9.2 |
| 5/3/2015 10:47:05 | 52.49 | 47.69 | 167 | 2.80 | 0.43 | 9.1 |
| 5/3/2015 10:47:06 | 52.82 | 48.02 | 204 | 2.10 | 0.43 | 11.1 |
| 5/3/2015 10:47:06 | 53.15 | 48.35 | 308 | 2.21 | 0.43 | 16.8 |
| 5/3/2015 10:47:07 | 53.48 | 48.68 | 437 | 1.97 | 0.42 | 23.9 |
| 5/3/2015 10:47:07 | 53.81 | 49.01 | 561 | 1.90 | 0.41 | 30.7 |
| 5/3/2015 10:47:08 | 54.13 | 49.33 | 561 | 1.90 | 0.41 | 30.7 |
| 5/3/2015 10:47:08 | 54.46 | 49.66 | 703 | 1.87 | 0.42 | 38.5 |
| 5/3/2015 10:47:08 | 54.79 | 49.99 | 769 | 2.47 | 0.43 | 42.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 10:47:09 | 55.12 | 50.32 | 786 | 2.37 | 0.43 | 43.0 |
| 5/3/2015 | 10:47:09 | 55.45 | 50.65 | 772 | 3.15 | 0.46 | 42.2 |
| 5/3/2015 | 10:47:25 | 55.77 | 50.97 | 89 | 3.05 | 0.48 | 4.9 |
| 5/3/2015 | 10:47:30 | 56.10 | 51.30 | 70 | 2.76 | 0.47 | 3.8 |
| 5/3/2015 | 10:48:00 | 56.43 | 51.63 | 28 | 2.67 | 0.49 | 1.6 |
| 5/3/2015 | 10:48:11 | 56.76 | 51.96 | 34 | 2.93 | 0.48 | 1.9 |
| 5/3/2015 | 10:48:23 | 57.09 | 52.29 | 27 | 2.65 | 0.49 | 1.5 |
| 5/3/2015 | 10:48:26 | 57.16 | 52.36 | 31 | 2.63 | 0.50 | 1.7 |

## P155 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:42:19

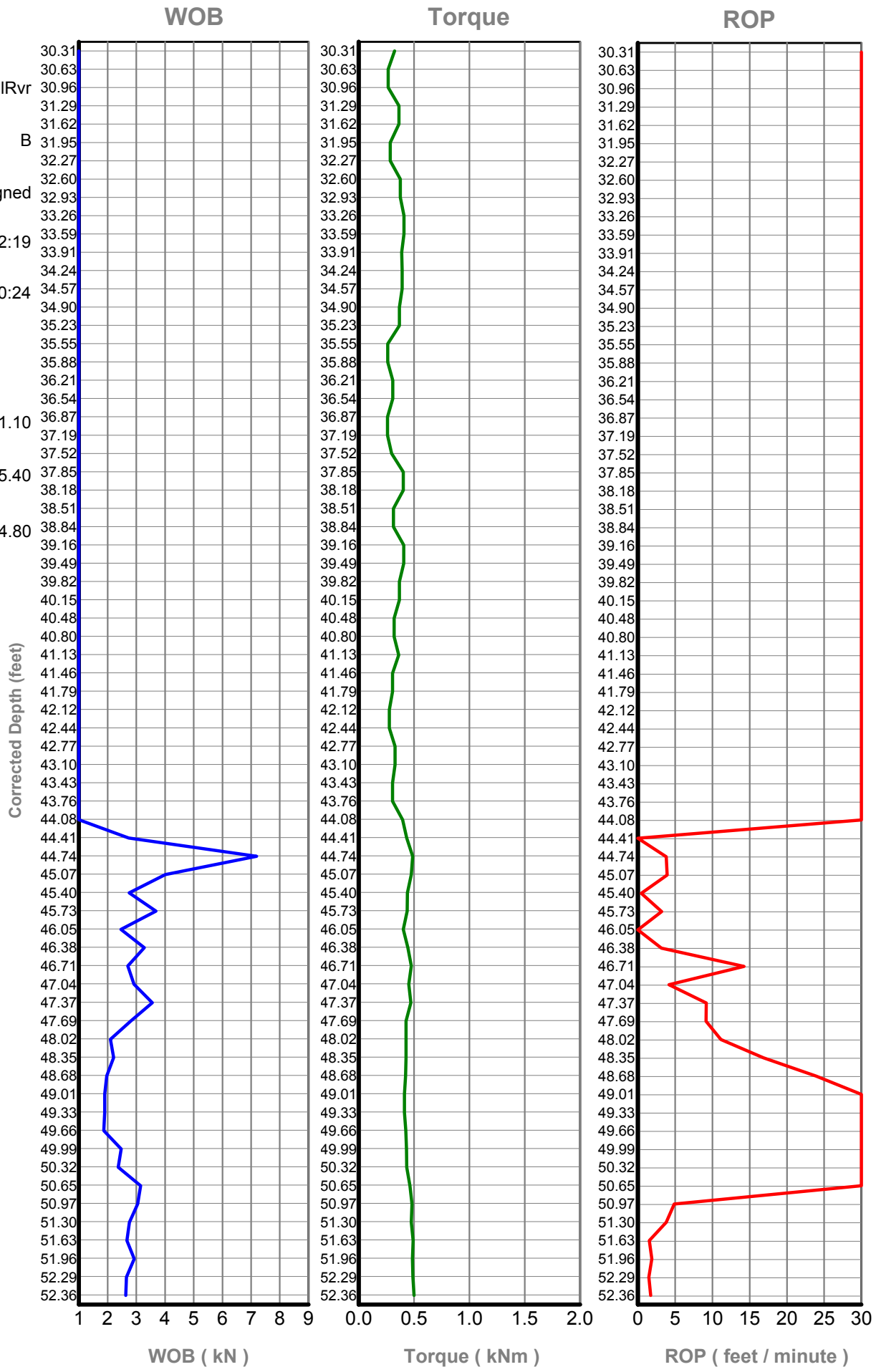
**End Date:**
5/3/2015 10:50:24

**Operator Note:**
'4.8 4.7 b Rock'

**Northing:**
349,051.10

**Easting:**
224,845.40

**Tide (feet):**
4.80



## Hole: P156 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 10:46:11 | 35.11 | 30.21 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 10:46:11 | 35.43 | 30.53 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 10:46:11 | 35.76 | 30.86 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 10:46:12 | 36.09 | 31.19 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 10:46:12 | 36.42 | 31.52 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 10:46:12 | 36.75 | 31.85 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 10:46:13 | 37.07 | 32.17 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 10:46:13 | 37.40 | 32.50 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 10:46:14 | 37.73 | 32.83 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 10:46:14 | 38.06 | 33.16 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 10:46:14 | 38.39 | 33.49 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 10:46:15 | 38.71 | 33.81 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 10:46:15 | 39.04 | 34.14 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 10:46:15 | 39.37 | 34.47 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 10:46:16 | 39.70 | 34.80 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 10:46:16 | 40.03 | 35.13 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 10:46:16 | 40.35 | 35.45 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 10:46:16 | 40.68 | 35.78 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 10:46:17 | 41.01 | 36.11 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 10:46:17 | 41.34 | 36.44 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 10:46:17 | 41.67 | 36.77 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 10:46:18 | 41.99 | 37.09 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 10:46:18 | 42.32 | 37.42 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 10:46:18 | 42.65 | 37.75 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 10:46:19 | 42.98 | 38.08 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 10:46:19 | 43.31 | 38.41 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 10:46:19 | 43.64 | 38.74 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 10:46:20 | 43.96 | 39.06 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 10:46:20 | 44.29 | 39.39 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 10:46:20 | 44.62 | 39.72 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 10:46:21 | 44.95 | 40.05 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 10:46:21 | 45.28 | 40.38 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 10:46:21 | 45.60 | 40.70 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 10:46:22 | 45.93 | 41.03 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 10:46:22 | 46.26 | 41.36 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 10:46:22 | 46.59 | 41.69 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 10:46:23 | 46.92 | 42.02 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 10:46:23 | 47.24 | 42.34 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 10:46:23 | 47.57 | 42.67 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 10:46:23 | 47.90 | 43.00 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 10:46:38 | 48.23 | 43.33 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 10:46:38 | 48.56 | 43.66 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 10:46:39 | 48.88 | 43.98 | 178 | 1.14 | 0.29 | 9.8 |
| 5/3/2015 10:46:39 | 49.21 | 44.31 | 311 | 1.14 | 0.29 | 17.0 |
| 5/3/2015 10:46:40 | 49.54 | 44.64 | 547 | 1.14 | 0.29 | 29.9 |
| 5/3/2015 10:46:41 | 49.87 | 44.97 | 636 | 1.14 | 0.29 | 34.8 |
| 5/3/2015 10:46:41 | 50.20 | 45.30 | 611 | 1.14 | 0.29 | 33.4 |
| 5/3/2015 10:46:42 | 50.53 | 45.63 | 576 | 1.14 | 0.29 | 31.5 |
| 5/3/2015 10:46:43 | 50.85 | 45.95 | 531 | 1.14 | 0.29 | 29.0 |
| 5/3/2015 10:47:20 | 51.18 | 46.28 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 10:47:22 | 51.51 | 46.61 | 211 | 1.14 | 0.29 | 11.5 |
| 5/3/2015 10:49:22 | 51.84 | 46.94 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 10:49:56 | 52.17 | 47.27 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 10:49:57 | 52.49 | 47.59 | 251 | 1.14 | 0.29 | 13.7 |
| 5/3/2015 10:49:58 | 52.82 | 47.92 | 369 | 1.14 | 0.29 | 20.2 |
| 5/3/2015 10:49:58 | 53.15 | 48.25 | 406 | 1.14 | 0.29 | 22.2 |
| 5/3/2015 10:49:59 | 53.48 | 48.58 | 504 | 1.14 | 0.29 | 27.5 |
| 5/3/2015 10:50:00 | 53.81 | 48.91 | 495 | 1.14 | 0.29 | 27.1 |
| 5/3/2015 10:50:15 | 54.13 | 49.23 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 10:50:17 | 54.46 | 49.56 | 195 | 1.14 | 0.29 | 10.7 |
| 5/3/2015 10:50:19 | 54.79 | 49.89 | 182 | 1.14 | 0.29 | 10.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 10:50:27 | 55.12 | 50.22 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 | 10:50:28 | 55.45 | 50.55 | 154 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 | 10:50:29 | 55.77 | 50.87 | 278 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 | 10:50:32 | 56.10 | 51.20 | 67 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 | 10:50:35 | 56.43 | 51.53 | 118 | 1.14 | 0.29 | 6.5 |
| 5/3/2015 | 10:50:51 | 56.76 | 51.86 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 10:51:09 | 57.09 | 52.19 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 10:51:21 | 57.30 | 52.40 | 20 | 1.14 | 0.29 | 1.1 |

## P156 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 10:45:01

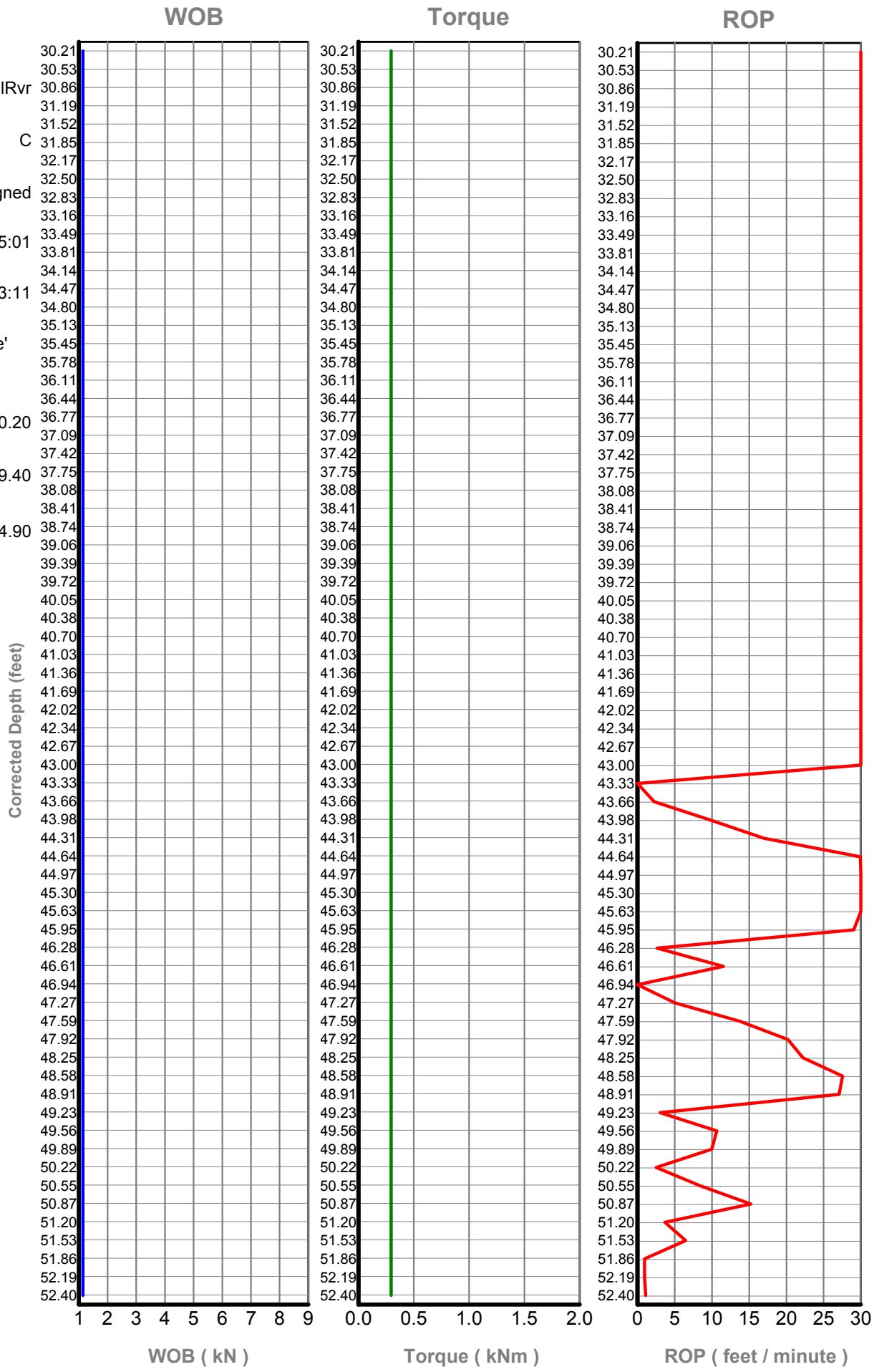
**End Date:**
5/3/2015 10:53:11

**Operator Note:**
'4.9 4.7 c Auto Complete'

**Northing:**
349,090.20

**Easting:**
224,909.40

**Tide (feet):**
4.90



## Hole: P157 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:15:51 | 36.09 | 30.19 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/3/2015 2:15:51 | 36.42 | 30.52 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/3/2015 2:15:52 | 36.75 | 30.85 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/3/2015 2:15:52 | 37.07 | 31.17 | 1,336 | 0.54 | 0.17 | 73.1 |
| 5/3/2015 2:15:52 | 37.40 | 31.50 | 1,336 | 0.54 | 0.17 | 73.1 |
| 5/3/2015 2:15:52 | 37.73 | 31.83 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 2:15:53 | 38.06 | 32.16 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 2:15:53 | 38.39 | 32.49 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 2:15:53 | 38.71 | 32.81 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 2:15:53 | 39.04 | 33.14 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 2:15:54 | 39.37 | 33.47 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 2:15:54 | 39.70 | 33.80 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 2:15:54 | 40.03 | 34.13 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 2:15:54 | 40.35 | 34.45 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/3/2015 2:15:55 | 40.68 | 34.78 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/3/2015 2:15:55 | 41.01 | 35.11 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 2:15:55 | 41.34 | 35.44 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 2:15:55 | 41.67 | 35.77 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 2:15:56 | 41.99 | 36.09 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 2:15:56 | 42.32 | 36.42 | 1,344 | 0.54 | 0.17 | 73.5 |
| 5/3/2015 2:15:56 | 42.65 | 36.75 | 1,344 | 0.54 | 0.17 | 73.5 |
| 5/3/2015 2:15:56 | 42.98 | 37.08 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:57 | 43.31 | 37.41 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:57 | 43.64 | 37.74 | 1,347 | 0.54 | 0.17 | 73.6 |
| 5/3/2015 2:15:57 | 43.96 | 38.06 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:58 | 44.29 | 38.39 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:58 | 44.62 | 38.72 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:58 | 44.95 | 39.05 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:58 | 45.28 | 39.38 | 1,347 | 0.54 | 0.17 | 73.6 |
| 5/3/2015 2:15:59 | 45.60 | 39.70 | 1,347 | 0.54 | 0.17 | 73.6 |
| 5/3/2015 2:15:59 | 45.93 | 40.03 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:59 | 46.26 | 40.36 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 2:15:59 | 46.59 | 40.69 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/3/2015 2:16:00 | 46.92 | 41.02 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/3/2015 2:16:00 | 47.24 | 41.34 | 1,347 | 0.54 | 0.17 | 73.6 |
| 5/3/2015 2:16:01 | 47.57 | 41.67 | 1,347 | 0.54 | 0.17 | 73.6 |
| 5/3/2015 2:16:00 | 47.90 | 42.00 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:16:01 | 48.23 | 42.33 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:16:01 | 48.56 | 42.66 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:16:01 | 48.88 | 42.98 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:16:01 | 49.21 | 43.31 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/3/2015 2:16:10 | 49.54 | 43.64 | 56 | 0.54 | 0.17 | 3.1 |
| 5/3/2015 2:16:12 | 49.87 | 43.97 | 176 | 0.54 | 0.17 | 9.6 |
| 5/3/2015 2:16:12 | 50.20 | 44.30 | 282 | 0.54 | 0.17 | 15.4 |
| 5/3/2015 2:16:19 | 50.53 | 44.63 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:16:21 | 50.85 | 44.95 | 104 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 2:16:22 | 51.18 | 45.28 | 236 | 0.54 | 0.17 | 12.9 |
| 5/3/2015 2:16:23 | 51.51 | 45.61 | 307 | 0.54 | 0.17 | 16.8 |
| 5/3/2015 2:16:23 | 51.84 | 45.94 | 357 | 0.54 | 0.17 | 19.5 |
| 5/3/2015 2:16:55 | 52.17 | 46.27 | 40 | 0.54 | 0.17 | 2.2 |
| 5/3/2015 2:16:59 | 52.49 | 46.59 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 2:17:06 | 52.82 | 46.92 | 13 | 0.54 | 0.17 | 0.7 |
| 5/3/2015 2:17:08 | 53.15 | 47.25 | 109 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 2:17:09 | 53.48 | 47.58 | 175 | 0.54 | 0.17 | 9.6 |
| 5/3/2015 2:17:12 | 53.81 | 47.91 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 2:17:16 | 54.13 | 48.23 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 2:17:18 | 54.46 | 48.56 | 140 | 0.54 | 0.17 | 7.7 |
| 5/3/2015 2:17:20 | 54.79 | 48.89 | 215 | 0.54 | 0.17 | 11.7 |
| 5/3/2015 2:17:23 | 55.12 | 49.22 | 128 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 2:17:26 | 55.45 | 49.55 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 2:17:29 | 55.77 | 49.87 | 129 | 0.54 | 0.17 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:17:38 | 56.10 | 50.20 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 2:17:49 | 56.43 | 50.53 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 2:18:02 | 56.76 | 50.86 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 2:18:07 | 56.86 | 50.96 | 9 | 0.54 | 0.17 | 0.5 |

## P157 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:04:20

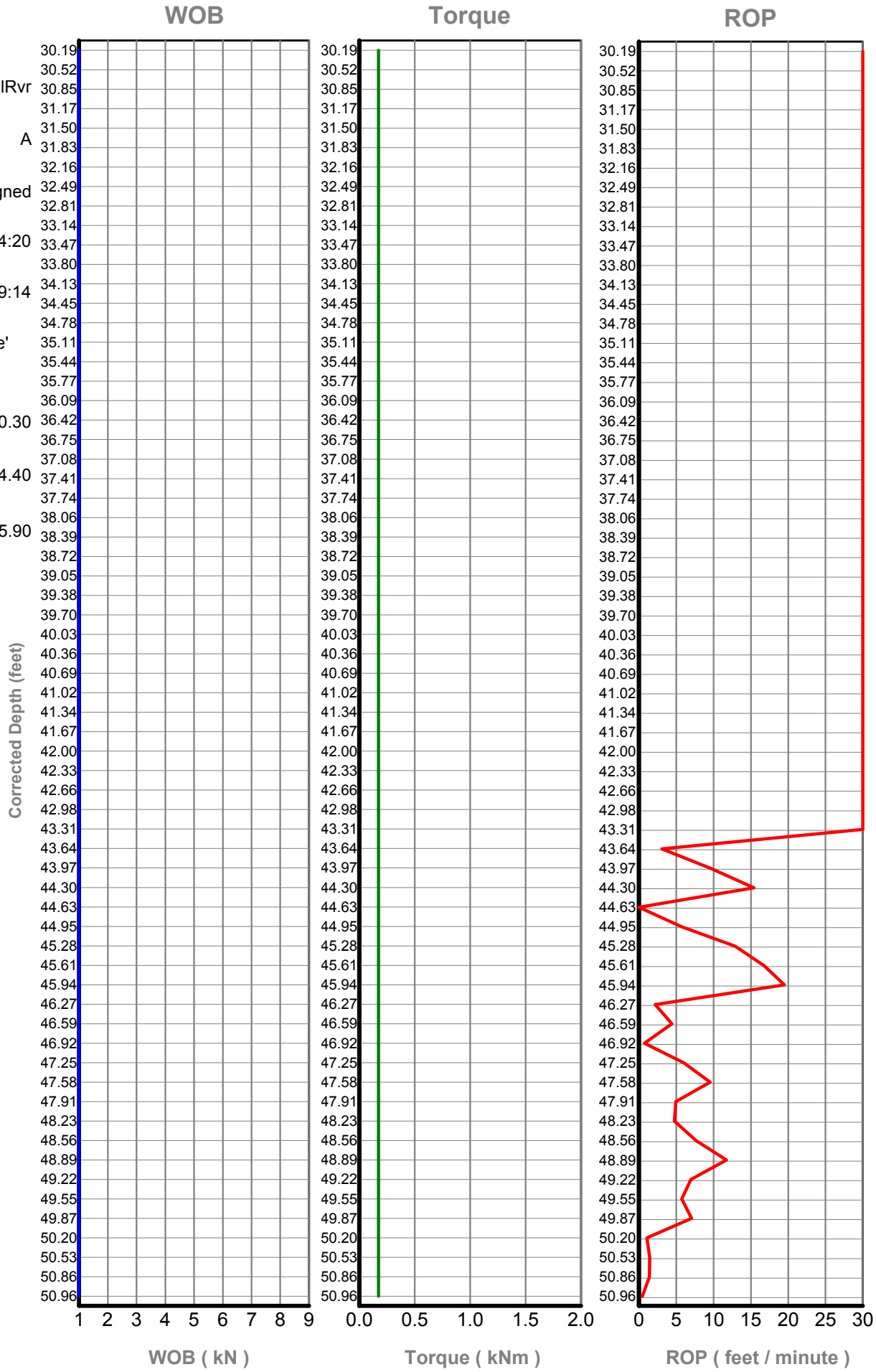
**End Date:**
5/3/2015 2:19:14

**Operator Note:**
'5.9 5.9 a Auto Complete'

**Northing:**
349,120.30

**Easting:**
224,964.40

**Tide (feet):**
5.90



## Hole: P158 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:16:43 | 35.76 | 30.16 | 1,270 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 2:16:43 | 36.09 | 30.49 | 1,270 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 2:16:43 | 36.42 | 30.82 | 1,267 | 0.31 | 0.39 | 69.3 |
| 5/3/2015 2:16:44 | 36.75 | 31.15 | 1,267 | 0.31 | 0.39 | 69.3 |
| 5/3/2015 2:16:44 | 37.07 | 31.47 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 2:16:45 | 37.40 | 31.80 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 2:16:44 | 37.73 | 32.13 | 1,254 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:16:45 | 38.06 | 32.46 | 1,254 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:16:45 | 38.39 | 32.79 | 1,272 | 0.31 | 0.38 | 69.5 |
| 5/3/2015 2:16:46 | 38.71 | 33.11 | 1,261 | 0.31 | 0.40 | 69.0 |
| 5/3/2015 2:16:46 | 39.04 | 33.44 | 1,261 | 0.31 | 0.40 | 69.0 |
| 5/3/2015 2:16:46 | 39.37 | 33.77 | 1,264 | 0.31 | 0.40 | 69.1 |
| 5/3/2015 2:16:47 | 39.70 | 34.10 | 1,264 | 0.31 | 0.40 | 69.1 |
| 5/3/2015 2:16:47 | 40.03 | 34.43 | 1,256 | 0.31 | 0.39 | 68.7 |
| 5/3/2015 2:16:47 | 40.35 | 34.75 | 1,256 | 0.31 | 0.39 | 68.7 |
| 5/3/2015 2:16:47 | 40.68 | 35.08 | 1,280 | 0.31 | 0.39 | 70.0 |
| 5/3/2015 2:16:48 | 41.01 | 35.41 | 1,280 | 0.31 | 0.39 | 70.0 |
| 5/3/2015 2:16:48 | 41.34 | 35.74 | 1,266 | 0.24 | 0.38 | 69.2 |
| 5/3/2015 2:16:48 | 41.67 | 36.07 | 1,266 | 0.24 | 0.38 | 69.2 |
| 5/3/2015 2:16:48 | 41.99 | 36.39 | 1,266 | 0.32 | 0.38 | 69.2 |
| 5/3/2015 2:16:49 | 42.32 | 36.72 | 1,266 | 0.32 | 0.38 | 69.2 |
| 5/3/2015 2:16:49 | 42.65 | 37.05 | 1,259 | 0.33 | 0.40 | 68.8 |
| 5/3/2015 2:16:49 | 42.98 | 37.38 | 1,270 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 2:16:50 | 43.31 | 37.71 | 1,270 | 0.31 | 0.38 | 69.4 |
| 5/3/2015 2:16:50 | 43.64 | 38.04 | 1,264 | 0.31 | 0.40 | 69.1 |
| 5/3/2015 2:16:50 | 43.96 | 38.36 | 1,264 | 0.31 | 0.40 | 69.1 |
| 5/3/2015 2:16:50 | 44.29 | 38.69 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:16:51 | 44.62 | 39.02 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:16:51 | 44.95 | 39.35 | 1,259 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:16:51 | 45.28 | 39.68 | 1,259 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:16:51 | 45.60 | 40.00 | 1,274 | 0.31 | 0.38 | 69.7 |
| 5/3/2015 2:16:52 | 45.93 | 40.33 | 1,274 | 0.31 | 0.38 | 69.7 |
| 5/3/2015 2:16:52 | 46.26 | 40.66 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 2:16:52 | 46.59 | 40.99 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:16:53 | 46.92 | 41.32 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 2:16:53 | 47.24 | 41.64 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 2:16:53 | 47.57 | 41.97 | 1,258 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 2:16:53 | 47.90 | 42.30 | 1,258 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 2:16:54 | 48.23 | 42.63 | 1,258 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 2:16:54 | 48.56 | 42.96 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:16:54 | 48.88 | 43.28 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 2:16:54 | 49.21 | 43.61 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/3/2015 2:16:55 | 49.54 | 43.94 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/3/2015 2:16:55 | 49.87 | 44.27 | 1,250 | 0.31 | 0.39 | 68.3 |
| 5/3/2015 2:16:56 | 50.20 | 44.60 | 1,255 | 0.27 | 0.48 | 68.6 |
| 5/3/2015 2:17:02 | 50.53 | 44.93 | 34 | 4.44 | 0.47 | 1.9 |
| 5/3/2015 2:17:07 | 50.85 | 45.25 | 12 | 4.64 | 0.48 | 0.6 |
| 5/3/2015 2:17:08 | 51.18 | 45.58 | 131 | 3.64 | 0.47 | 7.2 |
| 5/3/2015 2:17:09 | 51.51 | 45.91 | 265 | 3.83 | 0.45 | 14.5 |
| 5/3/2015 2:17:13 | 51.84 | 46.24 | 83 | 3.83 | 0.49 | 4.5 |
| 5/3/2015 2:17:18 | 52.17 | 46.57 | 75 | 3.88 | 0.48 | 4.1 |
| 5/3/2015 2:17:21 | 52.49 | 46.89 | 124 | 4.28 | 0.49 | 6.8 |
| 5/3/2015 2:17:23 | 52.82 | 47.22 | 119 | 4.93 | 0.49 | 6.5 |
| 5/3/2015 2:17:30 | 53.15 | 47.55 | 0 | 4.18 | 0.48 | 0.0 |
| 5/3/2015 2:17:36 | 53.48 | 47.88 | 72 | 4.21 | 0.46 | 3.9 |
| 5/3/2015 2:17:38 | 53.81 | 48.21 | 199 | 3.59 | 0.46 | 10.9 |
| 5/3/2015 2:17:49 | 54.13 | 48.53 | 81 | 3.98 | 0.47 | 4.4 |
| 5/3/2015 2:17:55 | 54.46 | 48.86 | 43 | 4.47 | 0.48 | 2.4 |
| 5/3/2015 2:17:59 | 54.79 | 49.19 | 72 | 4.78 | 0.49 | 3.9 |
| 5/3/2015 2:18:02 | 55.12 | 49.52 | 128 | 3.53 | 0.47 | 7.0 |
| 5/3/2015 2:18:03 | 55.45 | 49.85 | 180 | 3.42 | 0.45 | 9.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:18:07 | 55.77 | 50.17 | 43 | 3.16 | 0.49 | 2.4 |
| 5/3/2015 | 2:18:17 | 56.10 | 50.50 | 42 | 3.79 | 0.48 | 2.3 |
| 5/3/2015 | 2:18:20 | 56.43 | 50.83 | 111 | 3.92 | 0.48 | 6.0 |
| 5/3/2015 | 2:18:28 | 56.76 | 51.16 | 26 | 2.64 | 0.49 | 1.4 |
| 5/3/2015 | 2:18:43 | 57.09 | 51.49 | 29 | 2.97 | 0.49 | 1.6 |
| 5/3/2015 | 2:18:58 | 57.41 | 51.81 | 26 | 2.45 | 0.49 | 1.4 |
| 5/3/2015 | 2:19:12 | 57.70 | 52.10 | 23 | 2.60 | 0.49 | 1.3 |

## P158 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:15:12

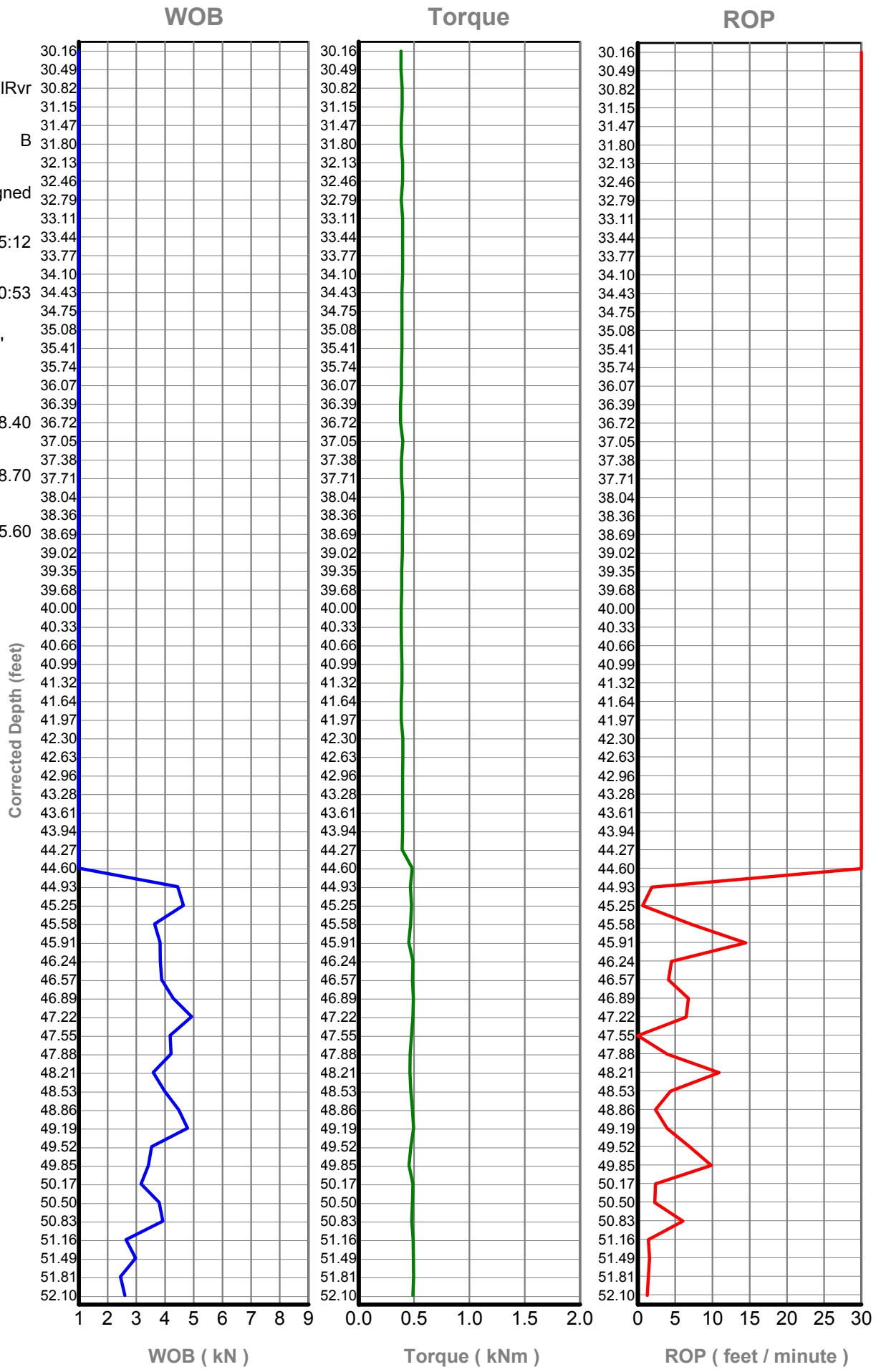
**End Date:**
5/3/2015 2:20:53

**Operator Note:**
'5.6 5.9b Auto Complete'

**Northing:**
349,158.40

**Easting:**
225,028.70

**Tide (feet):**
5.60



## Hole: P159 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:17:21 | 35.76 | 30.16 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:17:21 | 36.09 | 30.49 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:22 | 36.42 | 30.82 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 2:17:22 | 36.75 | 31.15 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 2:17:22 | 37.07 | 31.47 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:23 | 37.40 | 31.80 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 2:17:23 | 37.73 | 32.13 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 2:17:23 | 38.06 | 32.46 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:24 | 38.39 | 32.79 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:24 | 38.71 | 33.11 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:24 | 39.04 | 33.44 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:17:25 | 39.37 | 33.77 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:17:25 | 39.70 | 34.10 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:25 | 40.03 | 34.43 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:26 | 40.35 | 34.75 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:26 | 40.68 | 35.08 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:26 | 41.01 | 35.41 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:17:27 | 41.34 | 35.74 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:17:27 | 41.67 | 36.07 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:27 | 41.99 | 36.39 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:28 | 42.32 | 36.72 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:28 | 42.65 | 37.05 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:29 | 42.98 | 37.38 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:29 | 43.31 | 37.71 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:17:29 | 43.64 | 38.04 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:17:29 | 43.96 | 38.36 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:17:30 | 44.29 | 38.69 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:17:30 | 44.62 | 39.02 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 2:17:31 | 44.95 | 39.35 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 2:17:31 | 45.28 | 39.68 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 2:17:31 | 45.60 | 40.00 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:32 | 45.93 | 40.33 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:32 | 46.26 | 40.66 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:32 | 46.59 | 40.99 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:33 | 46.92 | 41.32 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:33 | 47.24 | 41.64 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:17:33 | 47.57 | 41.97 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:34 | 47.90 | 42.30 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:17:34 | 48.23 | 42.63 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:17:34 | 48.56 | 42.96 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:17:35 | 48.88 | 43.28 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:17:35 | 49.21 | 43.61 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:17:35 | 49.54 | 43.94 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:17:36 | 49.87 | 44.27 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:17:36 | 50.20 | 44.60 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 2:17:56 | 50.53 | 44.93 | 27 | 1.14 | 0.29 | 1.5 |
| 5/3/2015 2:18:14 | 50.85 | 45.25 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 2:18:14 | 51.18 | 45.58 | 50 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 2:18:22 | 51.51 | 45.91 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 2:18:22 | 51.84 | 46.24 | 106 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 2:18:24 | 52.17 | 46.57 | 228 | 1.14 | 0.29 | 12.4 |
| 5/3/2015 2:18:25 | 52.49 | 46.89 | 293 | 1.14 | 0.29 | 16.0 |
| 5/3/2015 2:18:25 | 52.82 | 47.22 | 402 | 1.14 | 0.29 | 22.0 |
| 5/3/2015 2:18:27 | 53.15 | 47.55 | 422 | 1.14 | 0.29 | 23.1 |
| 5/3/2015 2:18:28 | 53.48 | 47.88 | 422 | 1.14 | 0.29 | 23.1 |
| 5/3/2015 2:18:28 | 53.81 | 48.21 | 515 | 1.14 | 0.29 | 28.2 |
| 5/3/2015 2:18:29 | 54.13 | 48.53 | 541 | 1.14 | 0.29 | 29.6 |
| 5/3/2015 2:18:30 | 54.46 | 48.86 | 433 | 1.14 | 0.29 | 23.7 |
| 5/3/2015 2:18:51 | 54.79 | 49.19 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 2:18:52 | 55.12 | 49.52 | 232 | 1.14 | 0.29 | 12.7 |
| 5/3/2015 2:18:53 | 55.45 | 49.85 | 282 | 1.14 | 0.29 | 15.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:18:54 | 55.77 | 50.17 | 293 | 1.14 | 0.29 | 16.0 |
| 5/3/2015 | 2:18:55 | 56.10 | 50.50 | 329 | 1.14 | 0.29 | 18.0 |
| 5/3/2015 | 2:18:56 | 56.43 | 50.83 | 381 | 1.14 | 0.29 | 20.8 |
| 5/3/2015 | 2:18:57 | 56.76 | 51.16 | 407 | 1.14 | 0.29 | 22.3 |
| 5/3/2015 | 2:18:58 | 57.09 | 51.49 | 372 | 1.14 | 0.29 | 20.3 |
| 5/3/2015 | 2:18:59 | 57.41 | 51.81 | 314 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 | 2:19:00 | 57.74 | 52.14 | 334 | 1.14 | 0.29 | 18.3 |
| 5/3/2015 | 2:19:11 | 58.07 | 52.47 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 2:19:11 | 58.40 | 52.80 | 155 | 1.14 | 0.29 | 8.5 |
| 5/3/2015 | 2:19:12 | 58.73 | 53.13 | 326 | 1.14 | 0.29 | 17.8 |
| 5/3/2015 | 2:19:18 | 59.06 | 53.46 | 59 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 | 2:19:36 | 59.38 | 53.78 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 2:19:56 | 59.71 | 54.11 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 2:20:15 | 60.04 | 54.44 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 2:20:35 | 60.37 | 54.77 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 2:20:36 | 60.41 | 54.81 | 26 | 1.14 | 0.29 | 1.4 |

## P159 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:15:43

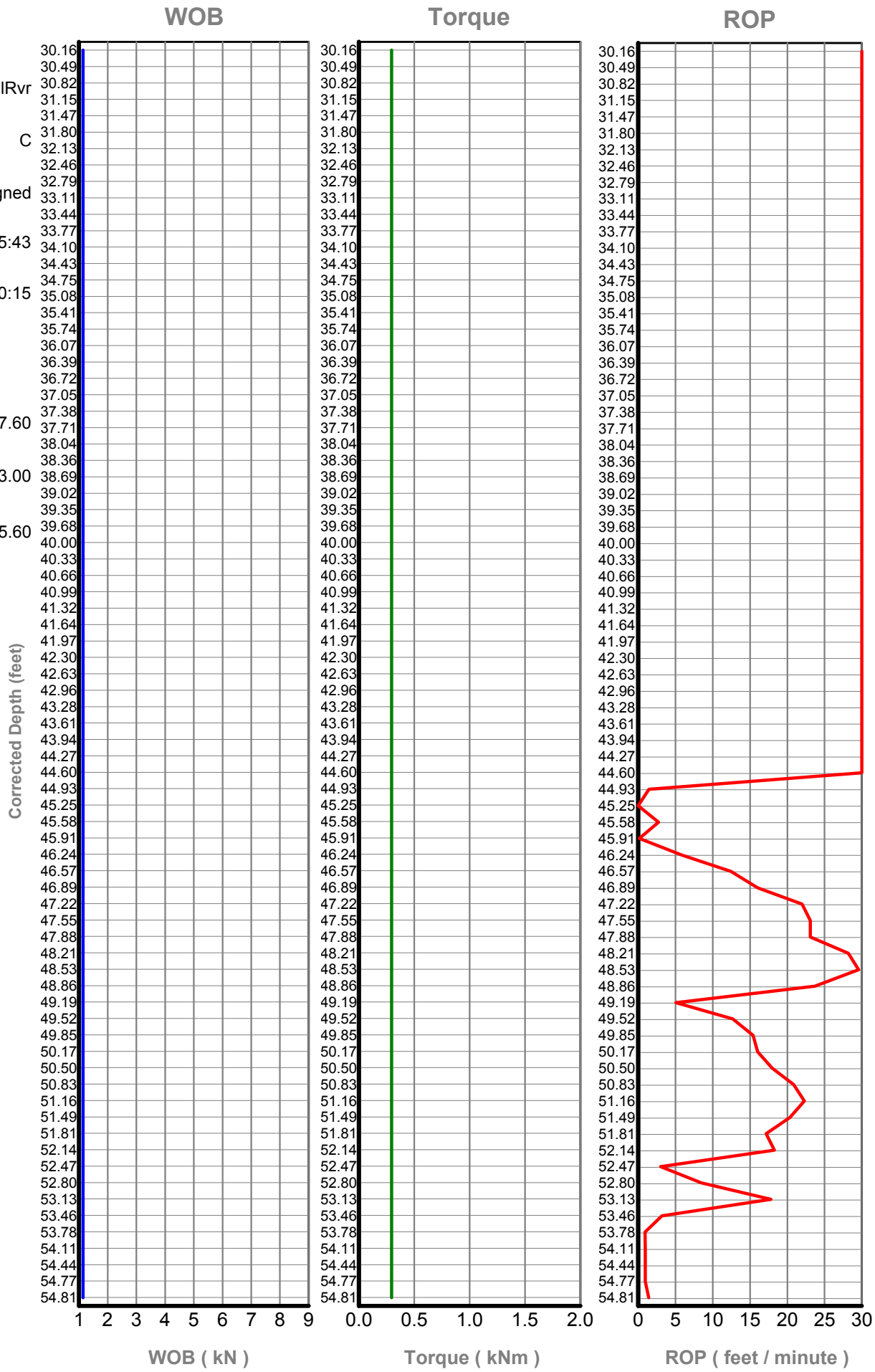
**End Date:**
5/3/2015 2:30:15

**Operator Note:**
'5.6 Auto Complete'

**Northing:**
349,197.60

**Easting:**
225,093.00

**Tide (feet):**
5.60



## Hole: P16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:15:53 | 34.12 | 30.12 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 15:15:53 | 34.45 | 30.45 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 15:15:53 | 34.78 | 30.78 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:15:54 | 35.11 | 31.11 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:15:54 | 35.43 | 31.43 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:15:54 | 35.76 | 31.76 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:15:55 | 36.09 | 32.09 | 921 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:15:55 | 36.42 | 32.42 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:15:56 | 36.75 | 32.75 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:15:56 | 37.07 | 33.07 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:15:56 | 37.40 | 33.40 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 15:15:57 | 37.73 | 33.73 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:15:57 | 38.06 | 34.06 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:15:57 | 38.39 | 34.39 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 15:15:58 | 38.71 | 34.71 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:15:58 | 39.04 | 35.04 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 15:15:59 | 39.37 | 35.37 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 15:15:59 | 39.70 | 35.70 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:15:59 | 40.03 | 36.03 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:16:00 | 40.35 | 36.35 | 910 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 15:16:01 | 40.68 | 36.68 | 910 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 15:16:01 | 41.01 | 37.01 | 895 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 15:16:01 | 41.34 | 37.34 | 895 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 15:16:02 | 41.67 | 37.67 | 906 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 15:16:02 | 41.99 | 37.99 | 906 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 15:16:02 | 42.32 | 38.32 | 901 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 15:16:03 | 42.65 | 38.65 | 912 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:16:03 | 42.98 | 38.98 | 906 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 15:16:04 | 43.31 | 39.31 | 906 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 15:16:04 | 43.64 | 39.64 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:16:04 | 43.96 | 39.96 | 908 | 0.54 | 0.17 | 49.6 |
| 5/3/2015 15:16:05 | 44.29 | 40.29 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:16:05 | 44.62 | 40.62 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:16:05 | 44.95 | 40.95 | 904 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 15:16:06 | 45.28 | 41.28 | 902 | 0.54 | 0.17 | 49.3 |
| 5/3/2015 15:16:06 | 45.60 | 41.60 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 15:16:07 | 45.93 | 41.93 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 15:16:07 | 46.26 | 42.26 | 910 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 15:16:07 | 46.59 | 42.59 | 895 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 15:16:08 | 46.92 | 42.92 | 895 | 0.54 | 0.17 | 48.9 |
| 5/3/2015 15:16:19 | 47.24 | 43.24 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 15:16:20 | 47.57 | 43.57 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 15:16:20 | 47.90 | 43.90 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 15:16:21 | 48.23 | 44.23 | 284 | 0.54 | 0.17 | 15.6 |
| 5/3/2015 15:16:23 | 48.56 | 44.56 | 379 | 0.54 | 0.17 | 20.7 |
| 5/3/2015 15:16:23 | 48.88 | 44.88 | 316 | 0.54 | 0.17 | 17.3 |
| 5/3/2015 15:16:24 | 49.21 | 45.21 | 383 | 0.54 | 0.17 | 21.0 |
| 5/3/2015 15:16:25 | 49.54 | 45.54 | 436 | 0.54 | 0.17 | 23.9 |
| 5/3/2015 15:16:26 | 49.87 | 45.87 | 546 | 0.54 | 0.17 | 29.8 |
| 5/3/2015 15:16:42 | 50.20 | 46.20 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 15:16:56 | 50.53 | 46.53 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 15:17:08 | 50.85 | 46.85 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 15:17:20 | 51.18 | 47.18 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 15:17:33 | 51.51 | 47.51 | 31 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 15:17:37 | 51.59 | 47.59 | 26 | 0.54 | 0.17 | 1.4 |

## P16 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:14:23

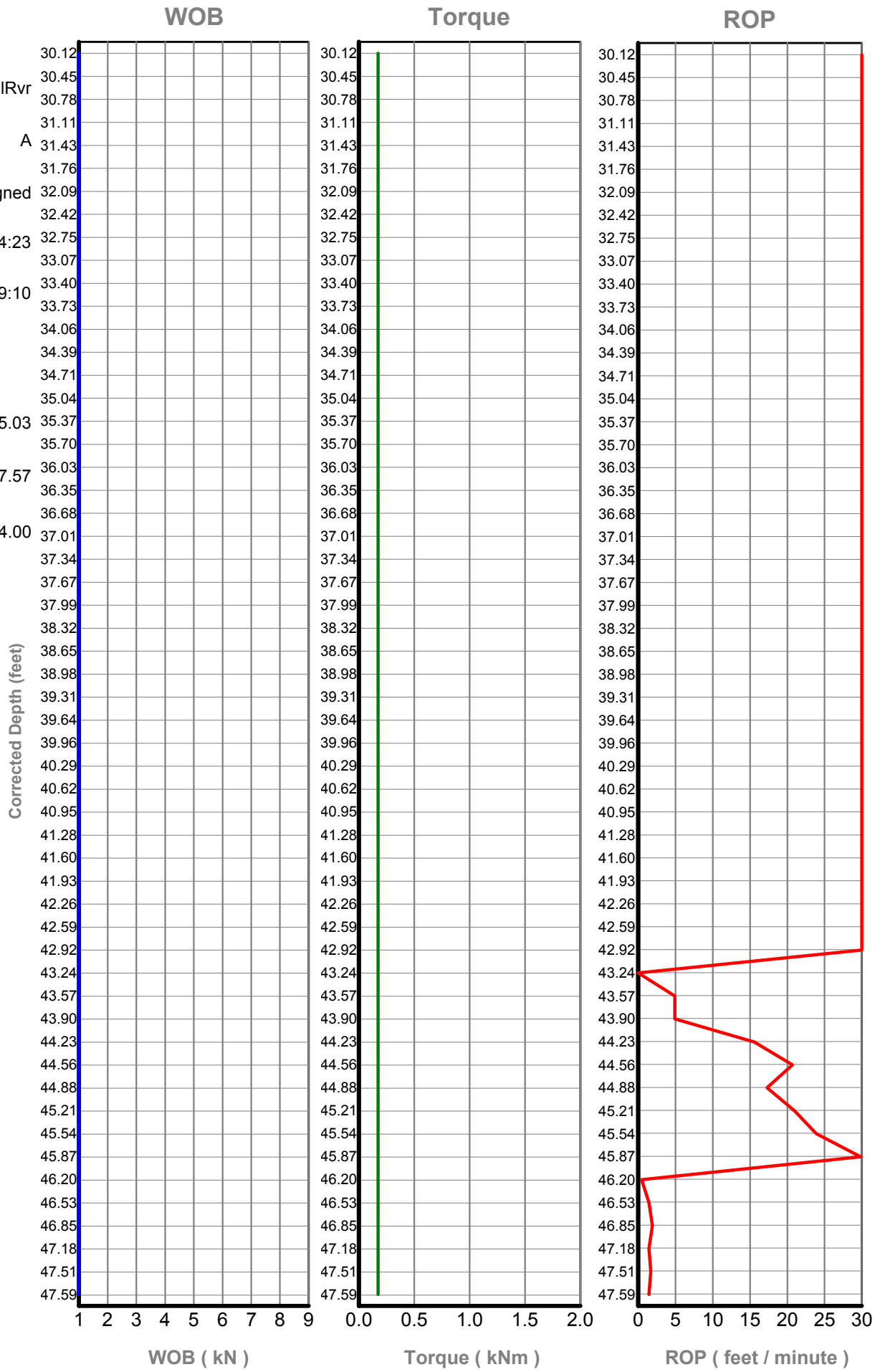
**End Date:**
5/3/2015 15:19:10

**Operator Note:**
'4 4.1 a Auto Complete'

**Northing:**
349,195.03

**Easting:**
224,387.57

**Tide (feet):**
4.00



## Hole: P160 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:43:04 | 36.42 | 30.02 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:05 | 36.75 | 30.35 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:05 | 37.07 | 30.67 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:05 | 37.40 | 31.00 | 1,066 | 0.54 | 0.17 | 58.3 |
| 5/2/2015 22:43:06 | 37.73 | 31.33 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:43:06 | 38.06 | 31.66 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:43:06 | 38.39 | 31.99 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 22:43:07 | 38.71 | 32.31 | 1,055 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 22:43:07 | 39.04 | 32.64 | 1,055 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 22:43:07 | 39.37 | 32.97 | 1,055 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 22:43:08 | 39.70 | 33.30 | 1,055 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 22:43:08 | 40.03 | 33.63 | 1,051 | 0.54 | 0.17 | 57.5 |
| 5/2/2015 22:43:09 | 40.35 | 33.95 | 1,052 | 0.54 | 0.17 | 57.5 |
| 5/2/2015 22:43:09 | 40.68 | 34.28 | 1,052 | 0.54 | 0.17 | 57.5 |
| 5/2/2015 22:43:09 | 41.01 | 34.61 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:10 | 41.34 | 34.94 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:10 | 41.67 | 35.27 | 1,046 | 0.54 | 0.17 | 57.2 |
| 5/2/2015 22:43:10 | 41.99 | 35.59 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:43:11 | 42.32 | 35.92 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:43:11 | 42.65 | 36.25 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:43:11 | 42.98 | 36.58 | 1,066 | 0.54 | 0.17 | 58.3 |
| 5/2/2015 22:43:12 | 43.31 | 36.91 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:43:12 | 43.64 | 37.24 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:43:12 | 43.96 | 37.56 | 1,067 | 0.54 | 0.17 | 58.4 |
| 5/2/2015 22:43:13 | 44.29 | 37.89 | 1,071 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 22:43:19 | 44.62 | 38.22 | 66 | 0.54 | 0.17 | 3.6 |
| 5/2/2015 22:43:20 | 44.95 | 38.55 | 66 | 0.54 | 0.17 | 3.6 |
| 5/2/2015 22:43:19 | 45.28 | 38.88 | 271 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 22:43:20 | 45.60 | 39.20 | 271 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 22:43:20 | 45.93 | 39.53 | 271 | 0.54 | 0.17 | 14.8 |
| 5/2/2015 22:43:20 | 46.26 | 39.86 | 505 | 0.54 | 0.17 | 27.6 |
| 5/2/2015 22:43:21 | 46.59 | 40.19 | 722 | 0.54 | 0.17 | 39.5 |
| 5/2/2015 22:43:22 | 46.92 | 40.52 | 722 | 0.54 | 0.17 | 39.5 |
| 5/2/2015 22:43:22 | 47.24 | 40.84 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 22:43:22 | 47.57 | 41.17 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 22:43:22 | 47.90 | 41.50 | 1,082 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 22:43:23 | 48.23 | 41.83 | 1,082 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 22:43:23 | 48.56 | 42.16 | 1,082 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 22:43:23 | 48.88 | 42.48 | 1,108 | 0.54 | 0.17 | 60.6 |
| 5/2/2015 22:43:24 | 49.21 | 42.81 | 1,108 | 0.54 | 0.17 | 60.6 |
| 5/2/2015 22:43:24 | 49.54 | 43.14 | 1,085 | 0.54 | 0.17 | 59.3 |
| 5/2/2015 22:43:24 | 49.87 | 43.47 | 1,085 | 0.54 | 0.17 | 59.3 |
| 5/2/2015 22:43:25 | 50.20 | 43.80 | 1,085 | 0.54 | 0.17 | 59.3 |
| 5/2/2015 22:43:25 | 50.53 | 44.13 | 1,088 | 0.54 | 0.17 | 59.5 |
| 5/2/2015 22:43:25 | 50.85 | 44.45 | 1,107 | 0.54 | 0.17 | 60.5 |
| 5/2/2015 22:43:26 | 51.18 | 44.78 | 1,107 | 0.54 | 0.17 | 60.5 |
| 5/2/2015 22:43:26 | 51.51 | 45.11 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/2/2015 22:43:26 | 51.84 | 45.44 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/2/2015 22:43:26 | 52.17 | 45.77 | 1,093 | 0.54 | 0.17 | 59.8 |
| 5/2/2015 22:44:11 | 52.49 | 46.09 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:44:12 | 52.82 | 46.42 | 155 | 0.54 | 0.17 | 8.5 |
| 5/2/2015 22:44:13 | 53.15 | 46.75 | 303 | 0.54 | 0.17 | 16.5 |
| 5/2/2015 22:44:27 | 53.48 | 47.08 | 106 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 22:44:28 | 53.81 | 47.41 | 205 | 0.54 | 0.17 | 11.2 |
| 5/2/2015 22:44:28 | 54.13 | 47.73 | 288 | 0.54 | 0.17 | 15.7 |
| 5/2/2015 22:44:29 | 54.46 | 48.06 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 22:44:30 | 54.79 | 48.39 | 483 | 0.54 | 0.17 | 26.4 |
| 5/2/2015 22:44:30 | 55.12 | 48.72 | 511 | 0.54 | 0.17 | 27.9 |
| 5/2/2015 22:44:31 | 55.45 | 49.05 | 569 | 0.54 | 0.17 | 31.1 |
| 5/2/2015 22:44:35 | 55.77 | 49.37 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:44:38 | 56.10 | 49.70 | 120 | 0.54 | 0.17 | 6.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 22:44:45 | 56.43 | 50.03 | 43 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 22:44:55 | 56.76 | 50.36 | 34 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 22:45:05 | 57.09 | 50.69 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 22:45:08 | 57.19 | 50.79 | 38 | 0.54 | 0.17 | 2.1 |

## P160 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:41:02

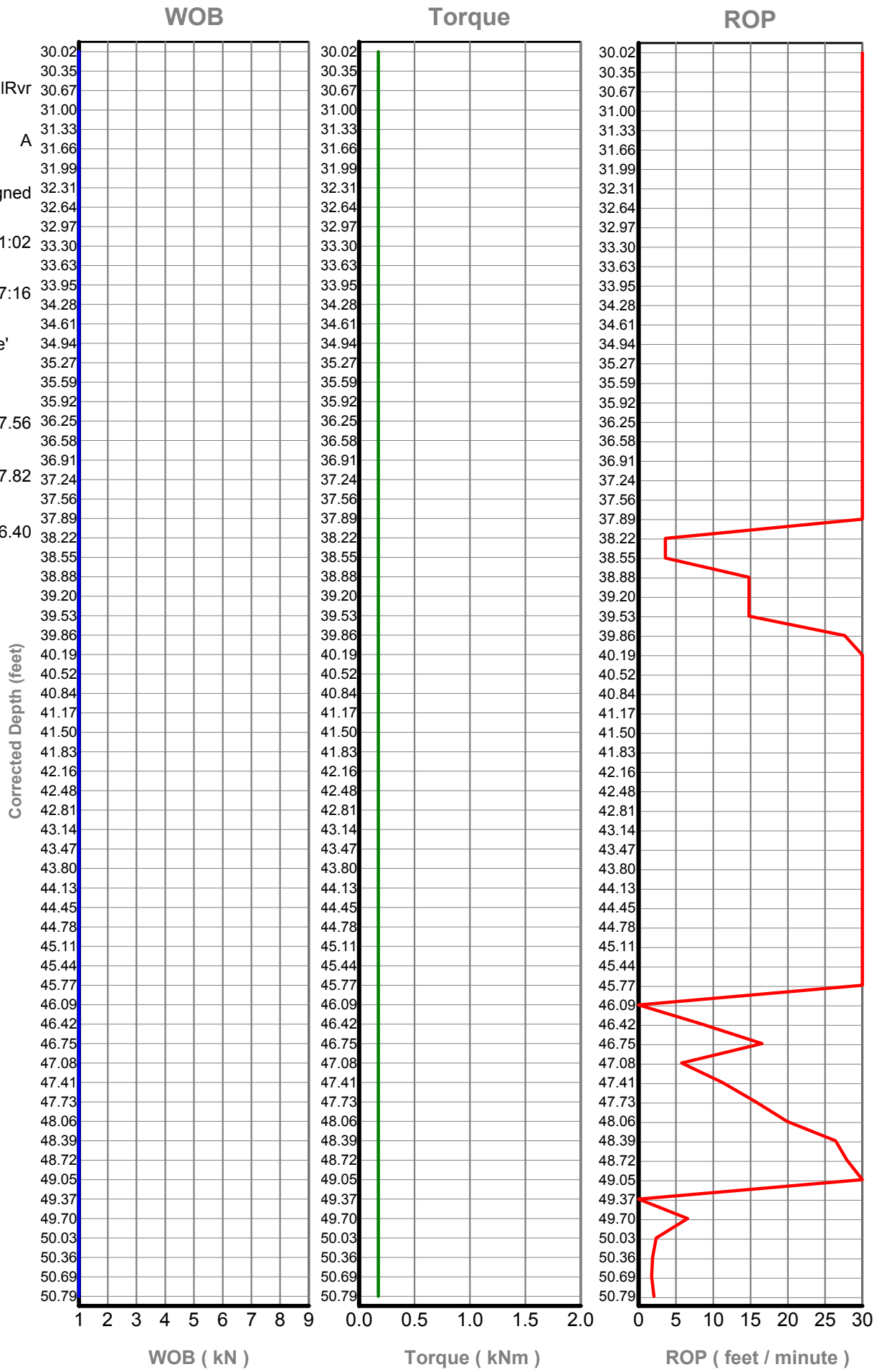
**End Date:**
5/2/2015 22:47:16

**Operator Note:**
'6.4 6.2 a Auto Complete'

**Northing:**
349,237.56

**Easting:**
225,147.82

**Tide (feet):**
6.40



## Hole: P161 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:43:34 | 36.42 | 30.02 | 1,259 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:35 | 36.75 | 30.35 | 1,259 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:35 | 37.07 | 30.67 | 1,255 | 0.33 | 0.39 | 68.6 |
| 5/2/2015 22:43:35 | 37.40 | 31.00 | 1,255 | 0.33 | 0.39 | 68.6 |
| 5/2/2015 22:43:35 | 37.73 | 31.33 | 1,255 | 0.33 | 0.40 | 68.6 |
| 5/2/2015 22:43:36 | 38.06 | 31.66 | 1,255 | 0.33 | 0.40 | 68.6 |
| 5/2/2015 22:43:36 | 38.39 | 31.99 | 1,265 | 0.32 | 0.40 | 69.2 |
| 5/2/2015 22:43:36 | 38.71 | 32.31 | 1,265 | 0.32 | 0.40 | 69.2 |
| 5/2/2015 22:43:36 | 39.04 | 32.64 | 1,257 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:37 | 39.37 | 32.97 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 22:43:37 | 39.70 | 33.30 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 22:43:37 | 40.03 | 33.63 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 22:43:38 | 40.35 | 33.95 | 1,257 | 0.33 | 0.40 | 68.8 |
| 5/2/2015 22:43:38 | 40.68 | 34.28 | 1,260 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:39 | 41.01 | 34.61 | 1,260 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:39 | 41.34 | 34.94 | 1,247 | 0.33 | 0.40 | 68.2 |
| 5/2/2015 22:43:39 | 41.67 | 35.27 | 1,247 | 0.33 | 0.40 | 68.2 |
| 5/2/2015 22:43:39 | 41.99 | 35.59 | 1,255 | 0.33 | 0.38 | 68.6 |
| 5/2/2015 22:43:40 | 42.32 | 35.92 | 1,255 | 0.33 | 0.38 | 68.6 |
| 5/2/2015 22:43:40 | 42.65 | 36.25 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 22:43:40 | 42.98 | 36.58 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 22:43:40 | 43.31 | 36.91 | 1,261 | 0.33 | 0.39 | 69.0 |
| 5/2/2015 22:43:41 | 43.64 | 37.24 | 1,259 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:41 | 43.96 | 37.56 | 1,259 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:41 | 44.29 | 37.89 | 1,269 | 0.33 | 0.40 | 69.4 |
| 5/2/2015 22:43:42 | 44.62 | 38.22 | 1,269 | 0.33 | 0.40 | 69.4 |
| 5/2/2015 22:43:42 | 44.95 | 38.55 | 1,259 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:42 | 45.28 | 38.88 | 1,259 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:42 | 45.60 | 39.20 | 1,261 | 0.33 | 0.40 | 69.0 |
| 5/2/2015 22:43:43 | 45.93 | 39.53 | 1,261 | 0.33 | 0.40 | 69.0 |
| 5/2/2015 22:43:43 | 46.26 | 39.86 | 1,252 | 0.33 | 0.39 | 68.5 |
| 5/2/2015 22:43:43 | 46.59 | 40.19 | 1,252 | 0.33 | 0.40 | 68.5 |
| 5/2/2015 22:43:44 | 46.92 | 40.52 | 1,252 | 0.33 | 0.40 | 68.5 |
| 5/2/2015 22:43:44 | 47.24 | 40.84 | 1,245 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 22:43:44 | 47.57 | 41.17 | 1,245 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 22:43:44 | 47.90 | 41.50 | 1,258 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:45 | 48.23 | 41.83 | 1,258 | 0.33 | 0.39 | 68.8 |
| 5/2/2015 22:43:45 | 48.56 | 42.16 | 1,259 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:45 | 48.88 | 42.48 | 1,259 | 0.33 | 0.39 | 68.9 |
| 5/2/2015 22:43:45 | 49.21 | 42.81 | 1,240 | 0.33 | 0.39 | 67.8 |
| 5/2/2015 22:43:46 | 49.54 | 43.14 | 1,240 | 0.33 | 0.39 | 67.8 |
| 5/2/2015 22:43:46 | 49.87 | 43.47 | 1,253 | 0.33 | 0.40 | 68.5 |
| 5/2/2015 22:43:46 | 50.20 | 43.80 | 1,256 | 0.33 | 0.39 | 68.7 |
| 5/2/2015 22:43:47 | 50.53 | 44.13 | 1,256 | 0.33 | 0.39 | 68.7 |
| 5/2/2015 22:43:47 | 50.85 | 44.45 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 22:43:47 | 51.18 | 44.78 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 22:43:47 | 51.51 | 45.11 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 22:43:48 | 51.84 | 45.44 | 1,250 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 22:43:48 | 52.17 | 45.77 | 1,257 | 0.33 | 0.39 | 68.7 |
| 5/2/2015 22:43:49 | 52.49 | 46.09 | 1,257 | 0.33 | 0.39 | 68.7 |
| 5/2/2015 22:43:49 | 52.82 | 46.42 | 1,252 | 0.33 | 0.39 | 68.4 |
| 5/2/2015 22:43:49 | 53.15 | 46.75 | 1,252 | 0.33 | 0.39 | 68.4 |
| 5/2/2015 22:43:49 | 53.48 | 47.08 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 22:43:50 | 53.81 | 47.41 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 22:43:50 | 54.13 | 47.73 | 1,243 | 0.33 | 0.40 | 68.0 |
| 5/2/2015 22:43:50 | 54.46 | 48.06 | 1,237 | 0.31 | 0.46 | 67.7 |
| 5/2/2015 22:43:54 | 54.79 | 48.39 | 26 | 3.31 | 0.49 | 1.4 |
| 5/2/2015 22:43:59 | 55.12 | 48.72 | 52 | 4.99 | 0.46 | 2.9 |
| 5/2/2015 22:44:00 | 55.45 | 49.05 | 214 | 3.11 | 0.49 | 11.7 |
| 5/2/2015 22:44:04 | 55.77 | 49.37 | 78 | 3.43 | 0.49 | 4.3 |
| 5/2/2015 22:44:07 | 56.10 | 49.70 | 121 | 3.71 | 0.49 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:44:16 | 56.43 | 50.03 | 14 | 2.84 | 0.45 | 0.8 |
| 5/2/2015 | 22:44:17 | 56.76 | 50.36 | 229 | 3.01 | 0.44 | 12.5 |
| 5/2/2015 | 22:44:20 | 57.09 | 50.69 | 140 | 2.67 | 0.43 | 7.7 |
| 5/2/2015 | 22:44:21 | 57.41 | 51.01 | 21 | 3.28 | 0.44 | 1.1 |
| 5/2/2015 | 22:44:21 | 57.74 | 51.34 | 21 | 2.70 | 0.44 | 1.1 |
| 5/2/2015 | 22:44:22 | 58.07 | 51.67 | 271 | 3.12 | 0.47 | 14.8 |
| 5/2/2015 | 22:44:23 | 58.40 | 52.00 | 391 | 3.06 | 0.46 | 21.4 |
| 5/2/2015 | 22:44:25 | 58.73 | 52.33 | 286 | 3.39 | 0.47 | 15.6 |
| 5/2/2015 | 22:44:26 | 59.06 | 52.66 | 297 | 3.17 | 0.47 | 16.3 |
| 5/2/2015 | 22:44:36 | 59.38 | 52.98 | 32 | 3.07 | 0.49 | 1.8 |
| 5/2/2015 | 22:44:45 | 59.71 | 53.31 | 40 | 2.91 | 0.49 | 2.2 |
| 5/2/2015 | 22:44:52 | 60.04 | 53.64 | 55 | 3.03 | 0.49 | 3.0 |
| 5/2/2015 | 22:45:00 | 60.37 | 53.97 | 40 | 2.84 | 0.49 | 2.2 |
| 5/2/2015 | 22:45:01 | 60.41 | 54.01 | 40 | 2.99 | 0.49 | 2.2 |

## P161 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:42:03

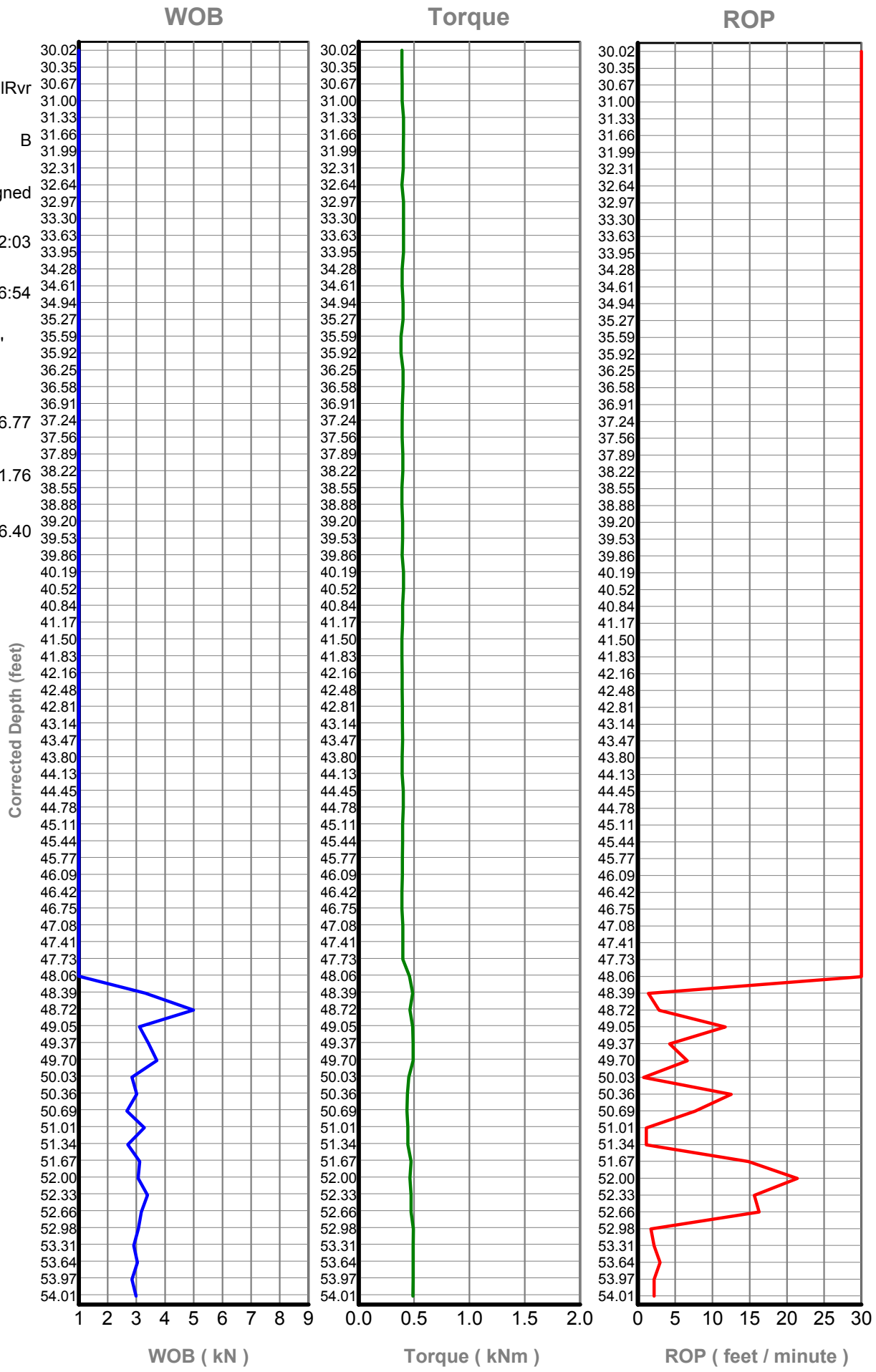
**End Date:**
5/2/2015 22:46:54

**Operator Note:**
'6.4 6.2b Auto Complete'

**Northing:**
349,276.77

**Easting:**
225,211.76

**Tide (feet):**
6.40



## Hole: P162 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:42:11 | 36.42 | 30.02 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:42:12 | 36.75 | 30.35 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:42:12 | 37.07 | 30.67 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 22:42:12 | 37.40 | 31.00 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:13 | 37.73 | 31.33 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:13 | 38.06 | 31.66 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 22:42:13 | 38.39 | 31.99 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 22:42:14 | 38.71 | 32.31 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 22:42:14 | 39.04 | 32.64 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 22:42:14 | 39.37 | 32.97 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:15 | 39.70 | 33.30 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:15 | 40.03 | 33.63 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:42:15 | 40.35 | 33.95 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:42:16 | 40.68 | 34.28 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:42:16 | 41.01 | 34.61 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 22:42:16 | 41.34 | 34.94 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:17 | 41.67 | 35.27 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:17 | 41.99 | 35.59 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:17 | 42.32 | 35.92 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:17 | 42.65 | 36.25 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 22:42:18 | 42.98 | 36.58 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:18 | 43.31 | 36.91 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:18 | 43.64 | 37.24 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:42:19 | 43.96 | 37.56 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:19 | 44.29 | 37.89 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:19 | 44.62 | 38.22 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:20 | 44.95 | 38.55 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:21 | 45.28 | 38.88 | 1,051 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:21 | 45.60 | 39.20 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 22:42:21 | 45.93 | 39.53 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:22 | 46.26 | 39.86 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:22 | 46.59 | 40.19 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:42:22 | 46.92 | 40.52 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 22:42:23 | 47.24 | 40.84 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 22:42:23 | 47.57 | 41.17 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:42:23 | 47.90 | 41.50 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:42:24 | 48.23 | 41.83 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:42:24 | 48.56 | 42.16 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 22:42:24 | 48.88 | 42.48 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:42:25 | 49.21 | 42.81 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:42:25 | 49.54 | 43.14 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:25 | 49.87 | 43.47 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:26 | 50.20 | 43.80 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:26 | 50.53 | 44.13 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:26 | 50.85 | 44.45 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:27 | 51.18 | 44.78 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:27 | 51.51 | 45.11 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:42:27 | 51.84 | 45.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:28 | 52.17 | 45.77 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:42:28 | 52.49 | 46.09 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:42:28 | 52.82 | 46.42 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 22:42:29 | 53.15 | 46.75 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 22:42:42 | 53.48 | 47.08 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 22:42:45 | 53.81 | 47.41 | 151 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 22:42:45 | 54.13 | 47.73 | 254 | 1.14 | 0.29 | 13.9 |
| 5/2/2015 22:42:46 | 54.46 | 48.06 | 344 | 1.14 | 0.29 | 18.8 |
| 5/2/2015 22:42:51 | 54.79 | 48.39 | 43 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 22:42:52 | 55.12 | 48.72 | 226 | 1.14 | 0.29 | 12.4 |
| 5/2/2015 22:42:56 | 55.45 | 49.05 | 70 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 22:43:05 | 55.77 | 49.37 | 41 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 22:43:14 | 56.10 | 49.70 | 39 | 1.14 | 0.29 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:43:23 | 56.43 | 50.03 | 45 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 22:43:30 | 56.74 | 50.34 | 47 | 1.14 | 0.29 | 2.6 |

## P162 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:41:10

**End Date:**
5/2/2015 22:45:04

**Operator Note:**
'6.4 6.2 c Auto Complete'

**Northing:**
349,316.00

**Easting:**
225,275.70

**Tide (feet):**
6.40



## Hole: P163 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:46:03 | 34.12 | 30.32 | 938 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 20:46:03 | 34.45 | 30.65 | 904 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 20:46:04 | 34.78 | 30.98 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 20:46:10 | 35.11 | 31.31 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 20:46:15 | 35.43 | 31.63 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 20:46:10 | 35.76 | 31.96 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 20:46:11 | 36.09 | 32.29 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 20:46:11 | 36.42 | 32.62 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 20:46:11 | 36.75 | 32.95 | 165 | 0.54 | 0.17 | 9.0 |
| 5/2/2015 20:46:11 | 37.07 | 33.27 | 449 | 0.54 | 0.17 | 24.6 |
| 5/2/2015 20:46:12 | 37.40 | 33.60 | 449 | 0.54 | 0.17 | 24.6 |
| 5/2/2015 20:46:12 | 37.73 | 33.93 | 726 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 20:46:12 | 38.06 | 34.26 | 726 | 0.54 | 0.17 | 39.7 |
| 5/2/2015 20:46:12 | 38.39 | 34.59 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:46:13 | 38.71 | 34.91 | 1,219 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 20:46:13 | 39.04 | 35.24 | 1,219 | 0.54 | 0.17 | 66.7 |
| 5/2/2015 20:46:13 | 39.37 | 35.57 | 1,286 | 0.54 | 0.17 | 70.3 |
| 5/2/2015 20:46:14 | 39.70 | 35.90 | 1,286 | 0.54 | 0.17 | 70.3 |
| 5/2/2015 20:46:14 | 40.03 | 36.23 | 1,248 | 0.54 | 0.17 | 68.3 |
| 5/2/2015 20:46:14 | 40.35 | 36.55 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/2/2015 20:46:15 | 40.68 | 36.88 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/2/2015 20:46:15 | 41.01 | 37.21 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/2/2015 20:46:15 | 41.34 | 37.54 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/2/2015 20:46:15 | 41.67 | 37.87 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/2/2015 20:46:16 | 41.99 | 38.19 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/2/2015 20:46:16 | 42.32 | 38.52 | 1,264 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 20:46:16 | 42.65 | 38.85 | 1,264 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 20:46:16 | 42.98 | 39.18 | 1,289 | 0.54 | 0.17 | 70.5 |
| 5/2/2015 20:46:17 | 43.31 | 39.51 | 1,289 | 0.54 | 0.17 | 70.5 |
| 5/2/2015 20:46:17 | 43.64 | 39.84 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 20:46:18 | 43.96 | 40.16 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 20:46:18 | 44.29 | 40.49 | 1,327 | 0.54 | 0.17 | 72.6 |
| 5/2/2015 20:46:18 | 44.62 | 40.82 | 1,327 | 0.54 | 0.17 | 72.6 |
| 5/2/2015 20:46:18 | 44.95 | 41.15 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:19 | 45.28 | 41.48 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:19 | 45.60 | 41.80 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/2/2015 20:46:19 | 45.93 | 42.13 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/2/2015 20:46:19 | 46.26 | 42.46 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:20 | 46.59 | 42.79 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:20 | 46.92 | 43.12 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 20:46:20 | 47.24 | 43.44 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 20:46:20 | 47.57 | 43.77 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:21 | 47.90 | 44.10 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:21 | 48.23 | 44.43 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 20:46:21 | 48.56 | 44.76 | 1,332 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 20:46:22 | 48.88 | 45.08 | 1,332 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 20:46:22 | 49.21 | 45.41 | 1,332 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 20:46:22 | 49.54 | 45.74 | 1,332 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 20:46:22 | 49.87 | 46.07 | 1,325 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 20:46:33 | 50.20 | 46.40 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 20:46:39 | 50.53 | 46.73 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 20:46:42 | 50.85 | 47.05 | 197 | 0.54 | 0.17 | 10.7 |
| 5/2/2015 20:46:44 | 51.18 | 47.38 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 20:46:51 | 51.51 | 47.71 | 9 | 0.54 | 0.17 | 0.5 |
| 5/2/2015 20:46:52 | 51.84 | 48.04 | 150 | 0.54 | 0.17 | 8.2 |
| 5/2/2015 20:46:53 | 52.17 | 48.37 | 223 | 0.54 | 0.17 | 12.2 |
| 5/2/2015 20:46:54 | 52.49 | 48.69 | 329 | 0.54 | 0.17 | 18.0 |
| 5/2/2015 20:46:55 | 52.82 | 49.02 | 356 | 0.54 | 0.17 | 19.5 |
| 5/2/2015 20:46:56 | 53.15 | 49.35 | 398 | 0.54 | 0.17 | 21.8 |
| 5/2/2015 20:46:59 | 53.48 | 49.68 | 93 | 0.54 | 0.17 | 5.1 |
| 5/2/2015 20:47:08 | 53.81 | 50.01 | 38 | 0.54 | 0.17 | 2.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 20:47:15 | 54.13 | 50.33 | 54 | 0.54 | 0.17 | 3.0 |
| 5/2/2015 20:47:20 | 54.46 | 50.66 | 54 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 20:47:29 | 54.79 | 50.99 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 20:47:36 | 55.12 | 51.32 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 20:47:43 | 55.39 | 51.59 | 41 | 0.54 | 0.17 | 2.2 |

## P163 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:44:09

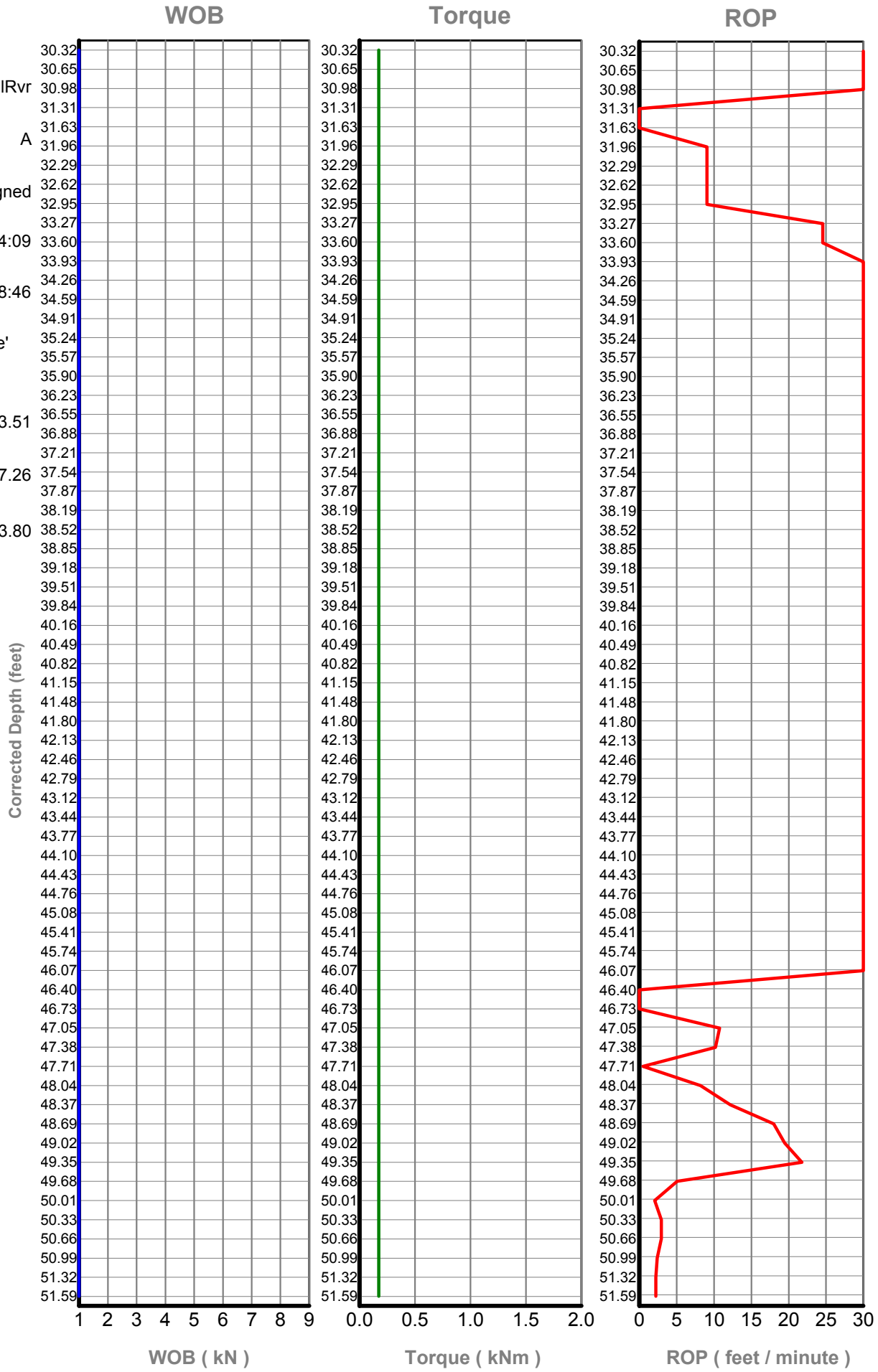
**End Date:**
5/2/2015 20:48:46

**Operator Note:**
'3.8 3.6 a Auto Complete'

**Northing:**
349,363.51

**Easting:**
225,347.26

**Tide (feet):**
3.80



## Hole: P164 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:48:34 | 34.12 | 30.22 | 1,194 | 0.33 | 0.41 | 65.3 |
| 5/2/2015 20:48:34 | 34.45 | 30.55 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:35 | 34.78 | 30.88 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:35 | 35.11 | 31.21 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:36 | 35.43 | 31.53 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:36 | 35.76 | 31.86 | 1,184 | 0.35 | 0.40 | 64.8 |
| 5/2/2015 20:48:36 | 36.09 | 32.19 | 1,184 | 0.35 | 0.40 | 64.8 |
| 5/2/2015 20:48:36 | 36.42 | 32.52 | 1,194 | 0.33 | 0.41 | 65.3 |
| 5/2/2015 20:48:37 | 36.75 | 32.85 | 1,188 | 0.35 | 0.39 | 65.0 |
| 5/2/2015 20:48:37 | 37.07 | 33.17 | 1,188 | 0.35 | 0.39 | 65.0 |
| 5/2/2015 20:48:37 | 37.40 | 33.50 | 1,186 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:38 | 37.73 | 33.83 | 1,186 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:38 | 38.06 | 34.16 | 1,178 | 0.33 | 0.40 | 64.4 |
| 5/2/2015 20:48:38 | 38.39 | 34.49 | 1,178 | 0.33 | 0.40 | 64.4 |
| 5/2/2015 20:48:38 | 38.71 | 34.81 | 1,195 | 0.33 | 0.40 | 65.4 |
| 5/2/2015 20:48:39 | 39.04 | 35.14 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:39 | 39.37 | 35.47 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:39 | 39.70 | 35.80 | 1,188 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 20:48:40 | 40.03 | 36.13 | 1,188 | 0.33 | 0.40 | 65.0 |
| 5/2/2015 20:48:40 | 40.35 | 36.45 | 1,191 | 0.33 | 0.41 | 65.1 |
| 5/2/2015 20:48:40 | 40.68 | 36.78 | 1,201 | 0.33 | 0.40 | 65.7 |
| 5/2/2015 20:48:41 | 41.01 | 37.11 | 1,201 | 0.33 | 0.40 | 65.7 |
| 5/2/2015 20:48:41 | 41.34 | 37.44 | 1,188 | 0.33 | 0.39 | 65.0 |
| 5/2/2015 20:48:41 | 41.67 | 37.77 | 1,188 | 0.33 | 0.39 | 65.0 |
| 5/2/2015 20:48:41 | 41.99 | 38.09 | 1,195 | 0.35 | 0.40 | 65.3 |
| 5/2/2015 20:48:42 | 42.32 | 38.42 | 1,195 | 0.35 | 0.40 | 65.3 |
| 5/2/2015 20:48:42 | 42.65 | 38.75 | 1,175 | 0.33 | 0.40 | 64.3 |
| 5/2/2015 20:48:42 | 42.98 | 39.08 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:43 | 43.31 | 39.41 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:43 | 43.64 | 39.74 | 1,180 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 20:48:43 | 43.96 | 40.06 | 1,180 | 0.35 | 0.40 | 64.5 |
| 5/2/2015 20:48:43 | 44.29 | 40.39 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:44 | 44.62 | 40.72 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 20:48:44 | 44.95 | 41.05 | 1,183 | 0.33 | 0.41 | 64.7 |
| 5/2/2015 20:48:44 | 45.28 | 41.38 | 1,206 | 0.33 | 0.41 | 65.9 |
| 5/2/2015 20:48:45 | 45.60 | 41.70 | 1,206 | 0.33 | 0.41 | 65.9 |
| 5/2/2015 20:48:45 | 45.93 | 42.03 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:46 | 46.26 | 42.36 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:46 | 46.59 | 42.69 | 1,185 | 0.33 | 0.41 | 64.8 |
| 5/2/2015 20:48:46 | 46.92 | 43.02 | 1,182 | 0.33 | 0.41 | 64.7 |
| 5/2/2015 20:48:47 | 47.24 | 43.34 | 1,182 | 0.33 | 0.41 | 64.7 |
| 5/2/2015 20:48:47 | 47.57 | 43.67 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:47 | 47.90 | 44.00 | 1,185 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 20:48:47 | 48.23 | 44.33 | 1,179 | 0.35 | 0.41 | 64.5 |
| 5/2/2015 20:48:48 | 48.56 | 44.66 | 1,179 | 0.35 | 0.41 | 64.5 |
| 5/2/2015 20:48:48 | 48.88 | 44.98 | 1,182 | 0.31 | 0.40 | 64.6 |
| 5/2/2015 20:48:48 | 49.21 | 45.31 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 20:48:49 | 49.54 | 45.64 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/2/2015 20:48:49 | 49.87 | 45.97 | 1,182 | 0.31 | 0.45 | 64.7 |
| 5/2/2015 20:48:58 | 50.20 | 46.30 | 0 | 3.09 | 0.43 | 0.0 |
| 5/2/2015 20:49:02 | 50.53 | 46.63 | 0 | 3.56 | 0.44 | 0.0 |
| 5/2/2015 20:49:02 | 50.85 | 46.95 | 133 | 4.02 | 0.34 | 7.2 |
| 5/2/2015 20:49:05 | 51.18 | 47.28 | 253 | 4.88 | 0.47 | 13.9 |
| 5/2/2015 20:49:09 | 51.51 | 47.61 | 57 | 4.69 | 0.50 | 3.1 |
| 5/2/2015 20:49:17 | 51.84 | 47.94 | 102 | 3.96 | 0.44 | 5.6 |
| 5/2/2015 20:49:18 | 52.17 | 48.27 | 222 | 4.72 | 0.46 | 12.2 |
| 5/2/2015 20:49:18 | 52.49 | 48.59 | 320 | 3.81 | 0.46 | 17.5 |
| 5/2/2015 20:49:19 | 52.82 | 48.92 | 481 | 4.66 | 0.47 | 26.3 |
| 5/2/2015 20:49:20 | 53.15 | 49.25 | 392 | 4.47 | 0.48 | 21.4 |
| 5/2/2015 20:49:21 | 53.48 | 49.58 | 328 | 4.45 | 0.48 | 17.9 |
| 5/2/2015 20:49:24 | 53.81 | 49.91 | 130 | 3.86 | 0.49 | 7.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 20:49:27 | 54.13 | 50.23 | 142 | 4.33 | 0.48 | 7.7 |
| 5/2/2015 | 20:49:28 | 54.46 | 50.56 | 192 | 4.29 | 0.48 | 10.5 |
| 5/2/2015 | 20:49:29 | 54.79 | 50.89 | 252 | 4.87 | 0.46 | 13.8 |
| 5/2/2015 | 20:49:31 | 55.12 | 51.22 | 299 | 4.77 | 0.47 | 16.4 |
| 5/2/2015 | 20:49:32 | 55.45 | 51.55 | 329 | 2.63 | 0.43 | 18.0 |
| 5/2/2015 | 20:49:32 | 55.77 | 51.87 | 404 | 2.61 | 0.47 | 22.1 |
| 5/2/2015 | 20:49:33 | 56.10 | 52.20 | 440 | 2.88 | 0.45 | 24.1 |
| 5/2/2015 | 20:49:33 | 56.43 | 52.53 | 501 | 2.70 | 0.45 | 27.4 |
| 5/2/2015 | 20:49:34 | 56.76 | 52.86 | 550 | 3.14 | 0.48 | 30.1 |
| 5/2/2015 | 20:49:38 | 57.09 | 53.19 | 84 | 2.39 | 0.46 | 4.6 |
| 5/2/2015 | 20:49:41 | 57.41 | 53.51 | 98 | 3.20 | 0.50 | 5.4 |
| 5/2/2015 | 20:49:45 | 57.74 | 53.84 | 24 | 3.26 | 0.46 | 1.3 |
| 5/2/2015 | 20:50:00 | 58.07 | 54.17 | 0 | 2.91 | 0.45 | 0.0 |
| 5/2/2015 | 20:50:14 | 58.40 | 54.50 | 0 | 5.00 | 0.48 | 0.0 |
| 5/2/2015 | 20:50:23 | 58.62 | 54.72 | 26 | 4.51 | 0.48 | 1.4 |

## P164 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:47:08

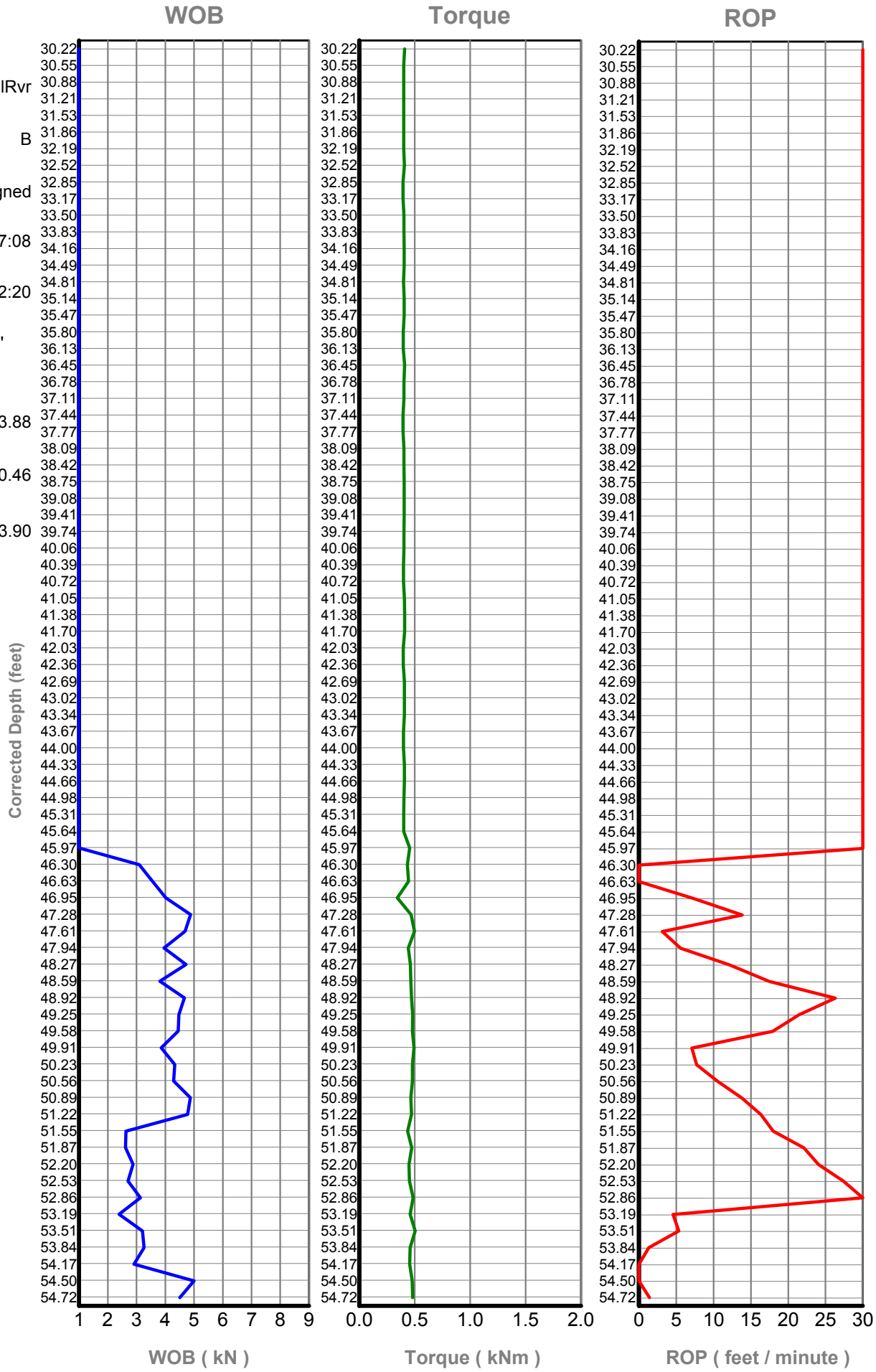
**End Date:**
5/2/2015 20:52:20

**Operator Note:**
'3.9 3.6b Auto Complete'

**Northing:**
349,403.88

**Easting:**
225,410.46

**Tide (feet):**
3.90



## Hole: P165 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:47:10 | 34.12 | 30.22 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 20:47:09 | 34.45 | 30.55 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:10 | 34.78 | 30.88 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:10 | 35.11 | 31.21 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:10 | 35.43 | 31.53 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 20:47:11 | 35.76 | 31.86 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 20:47:11 | 36.09 | 32.19 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 20:47:12 | 36.42 | 32.52 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 20:47:12 | 36.75 | 32.85 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 20:47:12 | 37.07 | 33.17 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:47:13 | 37.40 | 33.50 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 20:47:13 | 37.73 | 33.83 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 20:47:13 | 38.06 | 34.16 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 20:47:14 | 38.39 | 34.49 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:14 | 38.71 | 34.81 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:14 | 39.04 | 35.14 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:15 | 39.37 | 35.47 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:15 | 39.70 | 35.80 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:15 | 40.03 | 36.13 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:16 | 40.35 | 36.45 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:16 | 40.68 | 36.78 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:47:16 | 41.01 | 37.11 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 20:47:17 | 41.34 | 37.44 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 20:47:17 | 41.67 | 37.77 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 20:47:17 | 41.99 | 38.09 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 20:47:18 | 42.32 | 38.42 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 20:47:18 | 42.65 | 38.75 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:47:18 | 42.98 | 39.08 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:47:19 | 43.31 | 39.41 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:47:19 | 43.64 | 39.74 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:19 | 43.96 | 40.06 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 20:47:20 | 44.29 | 40.39 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 20:47:20 | 44.62 | 40.72 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 20:47:20 | 44.95 | 41.05 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 20:47:21 | 45.28 | 41.38 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 20:47:21 | 45.60 | 41.70 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 20:47:21 | 45.93 | 42.03 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 20:47:22 | 46.26 | 42.36 | 1,062 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 20:47:22 | 46.59 | 42.69 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:47:22 | 46.92 | 43.02 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:47:23 | 47.24 | 43.34 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 20:47:23 | 47.57 | 43.67 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 20:47:24 | 47.90 | 44.00 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 20:47:24 | 48.23 | 44.33 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 20:47:42 | 48.56 | 44.66 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 20:47:49 | 48.88 | 44.98 | 58 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 20:47:49 | 49.21 | 45.31 | 161 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 20:47:55 | 49.54 | 45.64 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 20:47:56 | 49.87 | 45.97 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 20:47:58 | 50.20 | 46.30 | 219 | 1.14 | 0.29 | 12.0 |
| 5/2/2015 20:47:59 | 50.53 | 46.63 | 266 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 20:48:14 | 50.85 | 46.95 | 78 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 20:48:15 | 51.18 | 47.28 | 193 | 1.14 | 0.29 | 10.6 |
| 5/2/2015 20:48:16 | 51.51 | 47.61 | 277 | 1.14 | 0.29 | 15.2 |
| 5/2/2015 20:48:17 | 51.84 | 47.94 | 273 | 1.14 | 0.29 | 14.9 |
| 5/2/2015 20:48:19 | 52.17 | 48.27 | 262 | 1.14 | 0.29 | 14.3 |
| 5/2/2015 20:48:20 | 52.49 | 48.59 | 254 | 1.14 | 0.29 | 13.9 |
| 5/2/2015 20:49:23 | 52.82 | 48.92 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 20:49:33 | 53.15 | 49.25 | 11 | 1.14 | 0.29 | 0.6 |
| 5/2/2015 20:49:34 | 53.48 | 49.58 | 123 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 20:49:35 | 53.81 | 49.91 | 282 | 1.14 | 0.29 | 15.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 20:49:37 | 54.13 | 50.23 | 299 | 1.14 | 0.29 | 16.3 |
| 5/2/2015 | 20:49:38 | 54.46 | 50.56 | 234 | 1.14 | 0.29 | 12.8 |
| 5/2/2015 | 20:49:39 | 54.79 | 50.89 | 229 | 1.14 | 0.29 | 12.5 |
| 5/2/2015 | 20:49:40 | 55.12 | 51.22 | 265 | 1.14 | 0.29 | 14.5 |
| 5/2/2015 | 20:49:54 | 55.45 | 51.55 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 20:49:55 | 55.77 | 51.87 | 180 | 1.14 | 0.29 | 9.9 |
| 5/2/2015 | 20:49:56 | 56.10 | 52.20 | 316 | 1.14 | 0.29 | 17.3 |
| 5/2/2015 | 20:49:58 | 56.43 | 52.53 | 314 | 1.14 | 0.29 | 17.2 |
| 5/2/2015 | 20:49:59 | 56.76 | 52.86 | 301 | 1.14 | 0.29 | 16.4 |
| 5/2/2015 | 20:50:00 | 57.09 | 53.19 | 320 | 1.14 | 0.29 | 17.5 |
| 5/2/2015 | 20:50:01 | 57.41 | 53.51 | 337 | 1.14 | 0.29 | 18.4 |
| 5/2/2015 | 20:50:03 | 57.74 | 53.84 | 249 | 1.14 | 0.29 | 13.6 |
| 5/2/2015 | 20:50:05 | 58.07 | 54.17 | 218 | 1.14 | 0.29 | 11.9 |
| 5/2/2015 | 20:50:06 | 58.40 | 54.50 | 263 | 1.14 | 0.29 | 14.4 |
| 5/2/2015 | 20:50:06 | 58.56 | 54.66 | 268 | 1.14 | 0.29 | 14.7 |

## P165 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:46:05

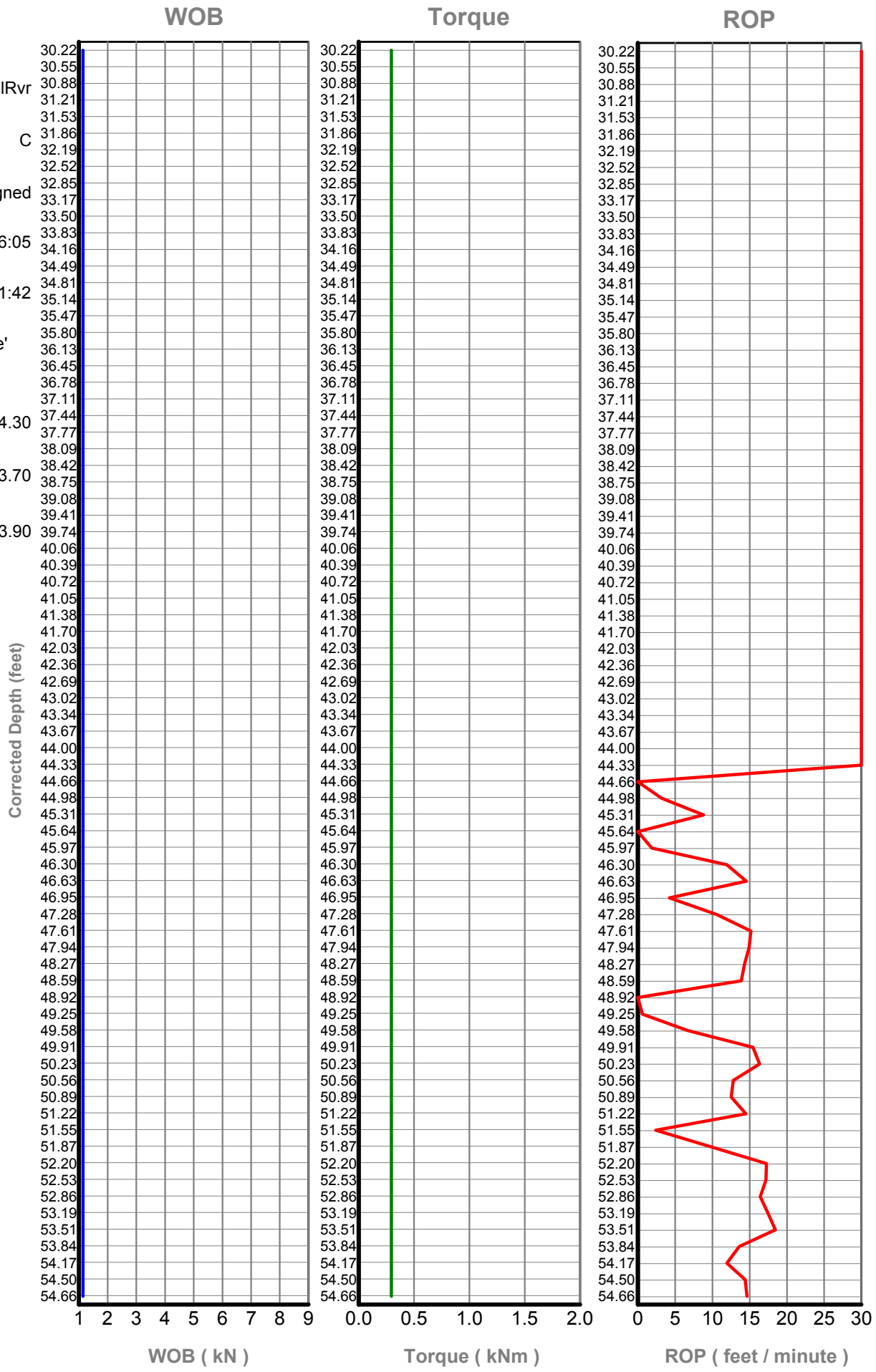
**End Date:**
5/2/2015 20:51:42

**Operator Note:**
'3.9 3.6 c Auto Complete'

**Northing:**
349,444.30

**Easting:**
225,473.70

**Tide (feet):**
3.90



## Hole: P166 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:38:33 | 32.48 | 30.18 | 974 | 0.54 | 0.17 | 53.2 |
| 5/2/2015 16:38:34 | 32.81 | 30.51 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:38:34 | 33.14 | 30.84 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:38:34 | 33.46 | 31.16 | 968 | 0.54 | 0.17 | 52.9 |
| 5/2/2015 16:38:35 | 33.79 | 31.49 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:38:35 | 34.12 | 31.82 | 993 | 0.54 | 0.17 | 54.3 |
| 5/2/2015 16:38:35 | 34.45 | 32.15 | 990 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:36 | 34.78 | 32.48 | 984 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 16:38:36 | 35.11 | 32.81 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 16:38:37 | 35.43 | 33.13 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 16:38:37 | 35.76 | 33.46 | 1,004 | 0.54 | 0.17 | 54.9 |
| 5/2/2015 16:38:37 | 36.09 | 33.79 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:38:38 | 36.42 | 34.12 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 16:38:38 | 36.75 | 34.45 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:38 | 37.07 | 34.77 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:39 | 37.40 | 35.10 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:39 | 37.73 | 35.43 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:39 | 38.06 | 35.76 | 983 | 0.54 | 0.17 | 53.7 |
| 5/2/2015 16:38:40 | 38.39 | 36.09 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:40 | 38.71 | 36.41 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 16:38:40 | 39.04 | 36.74 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 16:38:41 | 39.37 | 37.07 | 946 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 16:38:41 | 39.70 | 37.40 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 16:38:42 | 40.03 | 37.73 | 871 | 0.54 | 0.17 | 47.6 |
| 5/2/2015 16:38:42 | 40.35 | 38.05 | 834 | 0.54 | 0.17 | 45.6 |
| 5/2/2015 16:38:43 | 40.68 | 38.38 | 834 | 0.54 | 0.17 | 45.6 |
| 5/2/2015 16:38:43 | 41.01 | 38.71 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 16:38:43 | 41.34 | 39.04 | 793 | 0.54 | 0.17 | 43.4 |
| 5/2/2015 16:38:44 | 41.67 | 39.37 | 786 | 0.54 | 0.17 | 43.0 |
| 5/2/2015 16:38:44 | 41.99 | 39.69 | 787 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 16:38:45 | 42.32 | 40.02 | 782 | 0.54 | 0.17 | 42.8 |
| 5/2/2015 16:38:46 | 42.65 | 40.35 | 779 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 16:38:46 | 42.98 | 40.68 | 779 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 16:38:47 | 43.31 | 41.01 | 779 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 16:38:47 | 43.64 | 41.34 | 775 | 0.54 | 0.17 | 42.4 |
| 5/2/2015 16:38:47 | 43.96 | 41.66 | 779 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 16:38:48 | 44.29 | 41.99 | 777 | 0.54 | 0.17 | 42.5 |
| 5/2/2015 16:38:48 | 44.62 | 42.32 | 776 | 0.54 | 0.17 | 42.4 |
| 5/2/2015 16:38:49 | 44.95 | 42.65 | 777 | 0.54 | 0.17 | 42.5 |
| 5/2/2015 16:38:49 | 45.28 | 42.98 | 777 | 0.54 | 0.17 | 42.5 |
| 5/2/2015 16:38:50 | 45.60 | 43.30 | 774 | 0.54 | 0.17 | 42.3 |
| 5/2/2015 16:38:50 | 45.93 | 43.63 | 771 | 0.54 | 0.17 | 42.2 |
| 5/2/2015 16:39:03 | 46.26 | 43.96 | 6 | 0.54 | 0.17 | 0.3 |
| 5/2/2015 16:39:05 | 46.59 | 44.29 | 107 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 16:39:06 | 46.92 | 44.62 | 104 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 16:39:08 | 47.24 | 44.94 | 245 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 16:39:09 | 47.57 | 45.27 | 245 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 16:39:11 | 47.90 | 45.60 | 283 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 16:39:15 | 48.23 | 45.93 | 17 | 0.54 | 0.17 | 0.9 |
| 5/2/2015 16:39:23 | 48.56 | 46.26 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 16:39:32 | 48.88 | 46.58 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 16:39:43 | 49.21 | 46.91 | 32 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 16:39:54 | 49.54 | 47.24 | 34 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 16:39:59 | 49.69 | 47.39 | 35 | 0.54 | 0.17 | 1.9 |

## P166 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 16:37:21

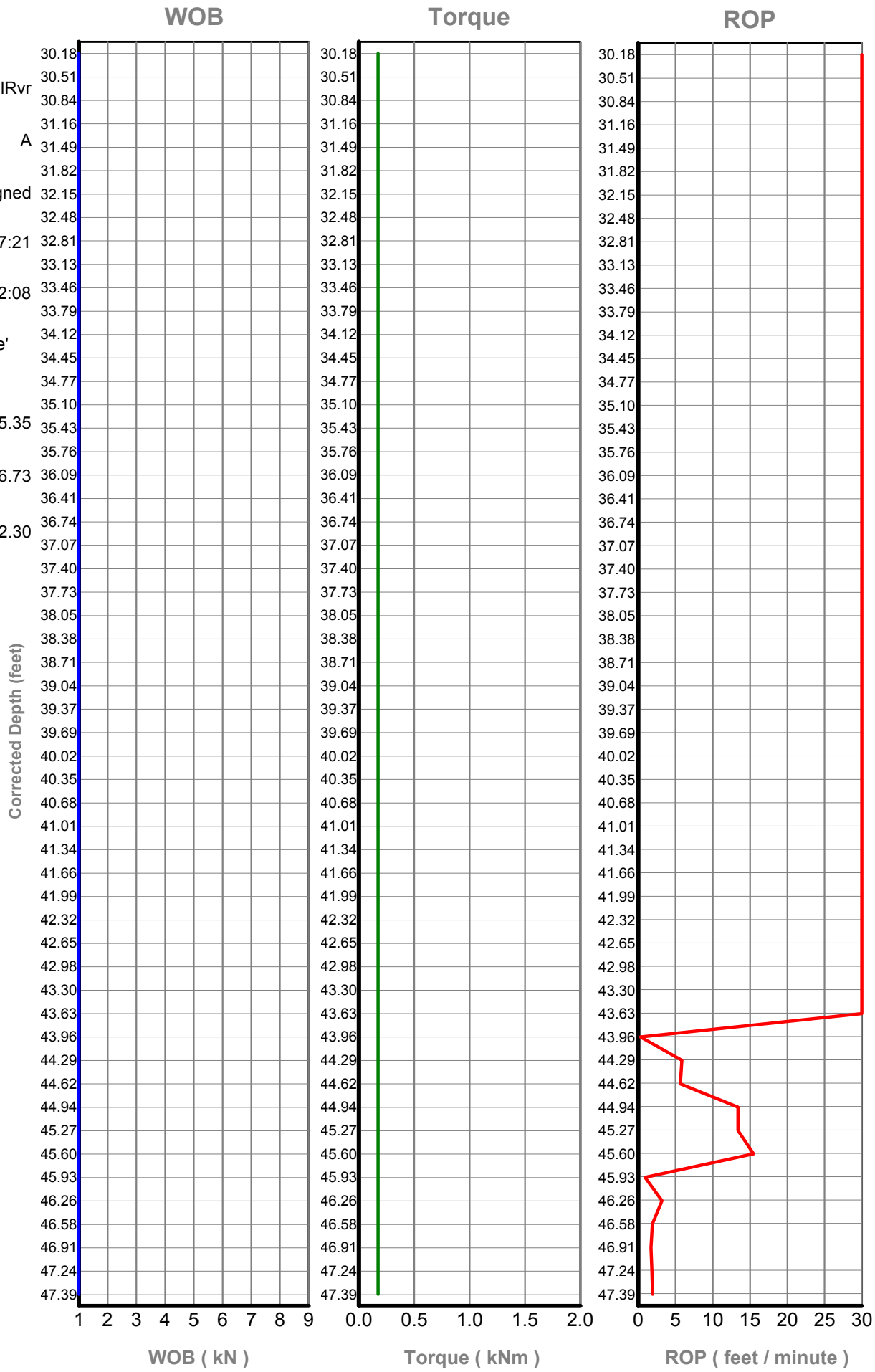
**End Date:**
5/2/2015 16:42:08

**Operator Note:**
'2.3 2.6 a Auto Complete'

**Northing:**
349,485.35

**Easting:**
225,536.73

**Tide (feet):**
2.30



## Hole: P167 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:38:22 | 32.48 | 30.18 | 1,312 | 0.27 | 0.39 | 71.8 |
| 5/2/2015 16:38:22 | 32.81 | 30.51 | 1,312 | 0.27 | 0.39 | 71.8 |
| 5/2/2015 16:38:22 | 33.14 | 30.84 | 1,297 | 0.27 | 0.39 | 70.9 |
| 5/2/2015 16:38:23 | 33.46 | 31.16 | 1,297 | 0.27 | 0.39 | 70.9 |
| 5/2/2015 16:38:23 | 33.79 | 31.49 | 1,316 | 0.28 | 0.40 | 72.0 |
| 5/2/2015 16:38:23 | 34.12 | 31.82 | 1,316 | 0.28 | 0.40 | 72.0 |
| 5/2/2015 16:38:23 | 34.45 | 32.15 | 1,313 | 0.28 | 0.40 | 71.8 |
| 5/2/2015 16:38:24 | 34.78 | 32.48 | 1,313 | 0.28 | 0.40 | 71.8 |
| 5/2/2015 16:38:24 | 35.11 | 32.81 | 1,316 | 0.28 | 0.39 | 72.0 |
| 5/2/2015 16:38:24 | 35.43 | 33.13 | 1,316 | 0.28 | 0.39 | 72.0 |
| 5/2/2015 16:38:24 | 35.76 | 33.46 | 1,316 | 0.27 | 0.38 | 72.0 |
| 5/2/2015 16:38:25 | 36.09 | 33.79 | 1,316 | 0.27 | 0.38 | 72.0 |
| 5/2/2015 16:38:25 | 36.42 | 34.12 | 1,324 | 0.27 | 0.39 | 72.4 |
| 5/2/2015 16:38:25 | 36.75 | 34.45 | 1,324 | 0.27 | 0.39 | 72.4 |
| 5/2/2015 16:38:25 | 37.07 | 34.77 | 1,312 | 0.28 | 0.40 | 71.8 |
| 5/2/2015 16:38:26 | 37.40 | 35.10 | 1,312 | 0.28 | 0.40 | 71.8 |
| 5/2/2015 16:38:26 | 37.73 | 35.43 | 1,310 | 0.28 | 0.40 | 71.6 |
| 5/2/2015 16:38:26 | 38.06 | 35.76 | 1,310 | 0.28 | 0.40 | 71.6 |
| 5/2/2015 16:38:26 | 38.39 | 36.09 | 1,299 | 0.27 | 0.40 | 71.0 |
| 5/2/2015 16:38:27 | 38.71 | 36.41 | 1,299 | 0.27 | 0.40 | 71.0 |
| 5/2/2015 16:38:27 | 39.04 | 36.74 | 1,312 | 0.27 | 0.39 | 71.8 |
| 5/2/2015 16:38:28 | 39.37 | 37.07 | 1,312 | 0.27 | 0.39 | 71.8 |
| 5/2/2015 16:38:28 | 39.70 | 37.40 | 1,312 | 0.28 | 0.38 | 71.8 |
| 5/2/2015 16:38:28 | 40.03 | 37.73 | 1,310 | 0.27 | 0.38 | 71.6 |
| 5/2/2015 16:38:29 | 40.35 | 38.05 | 1,310 | 0.27 | 0.38 | 71.6 |
| 5/2/2015 16:38:29 | 40.68 | 38.38 | 1,310 | 0.28 | 0.39 | 71.6 |
| 5/2/2015 16:38:29 | 41.01 | 38.71 | 1,310 | 0.28 | 0.39 | 71.6 |
| 5/2/2015 16:38:29 | 41.34 | 39.04 | 1,287 | 0.27 | 0.39 | 70.4 |
| 5/2/2015 16:38:30 | 41.67 | 39.37 | 1,287 | 0.27 | 0.39 | 70.4 |
| 5/2/2015 16:38:30 | 41.99 | 39.69 | 1,287 | 0.28 | 0.38 | 70.4 |
| 5/2/2015 16:38:30 | 42.32 | 40.02 | 1,287 | 0.28 | 0.38 | 70.4 |
| 5/2/2015 16:38:30 | 42.65 | 40.35 | 1,296 | 0.28 | 0.40 | 70.9 |
| 5/2/2015 16:38:31 | 42.98 | 40.68 | 1,296 | 0.28 | 0.40 | 70.9 |
| 5/2/2015 16:38:31 | 43.31 | 41.01 | 1,293 | 0.28 | 0.38 | 70.7 |
| 5/2/2015 16:38:31 | 43.64 | 41.34 | 1,293 | 0.28 | 0.38 | 70.7 |
| 5/2/2015 16:38:31 | 43.96 | 41.66 | 1,299 | 0.27 | 0.38 | 71.0 |
| 5/2/2015 16:38:32 | 44.29 | 41.99 | 1,299 | 0.27 | 0.38 | 71.0 |
| 5/2/2015 16:38:32 | 44.62 | 42.32 | 1,299 | 0.27 | 0.40 | 71.0 |
| 5/2/2015 16:38:32 | 44.95 | 42.65 | 1,299 | 0.27 | 0.40 | 71.0 |
| 5/2/2015 16:38:32 | 45.28 | 42.98 | 1,329 | 0.27 | 0.39 | 72.7 |
| 5/2/2015 16:38:33 | 45.60 | 43.30 | 1,329 | 0.27 | 0.39 | 72.7 |
| 5/2/2015 16:38:33 | 45.93 | 43.63 | 1,307 | 0.27 | 0.38 | 71.5 |
| 5/2/2015 16:38:33 | 46.26 | 43.96 | 1,307 | 0.27 | 0.38 | 71.5 |
| 5/2/2015 16:38:33 | 46.59 | 44.29 | 1,320 | 0.27 | 0.40 | 72.2 |
| 5/2/2015 16:38:34 | 46.92 | 44.62 | 1,307 | 0.27 | 0.39 | 71.5 |
| 5/2/2015 16:38:34 | 47.24 | 44.94 | 1,307 | 0.27 | 0.39 | 71.5 |
| 5/2/2015 16:38:36 | 47.57 | 45.27 | 262 | 3.04 | 0.43 | 14.3 |
| 5/2/2015 16:38:38 | 47.90 | 45.60 | 66 | 2.87 | 0.43 | 3.6 |
| 5/2/2015 16:38:40 | 48.23 | 45.93 | 224 | 7.67 | 0.48 | 12.3 |
| 5/2/2015 16:38:45 | 48.56 | 46.26 | 67 | 4.12 | 0.46 | 3.7 |
| 5/2/2015 16:38:45 | 48.88 | 46.58 | 118 | 3.48 | 0.45 | 6.5 |
| 5/2/2015 16:38:46 | 49.21 | 46.91 | 227 | 3.12 | 0.44 | 12.4 |
| 5/2/2015 16:38:52 | 49.54 | 47.24 | 108 | 3.63 | 0.45 | 5.9 |
| 5/2/2015 16:38:53 | 49.87 | 47.57 | 191 | 3.34 | 0.45 | 10.4 |
| 5/2/2015 16:38:59 | 50.20 | 47.90 | 100 | 2.90 | 0.47 | 5.5 |
| 5/2/2015 16:39:00 | 50.53 | 48.23 | 100 | 2.90 | 0.47 | 5.5 |
| 5/2/2015 16:39:00 | 50.85 | 48.55 | 239 | 2.57 | 0.47 | 13.1 |
| 5/2/2015 16:39:01 | 51.18 | 48.88 | 355 | 2.06 | 0.42 | 19.4 |
| 5/2/2015 16:39:01 | 51.51 | 49.21 | 433 | 2.93 | 0.47 | 23.7 |
| 5/2/2015 16:39:02 | 51.84 | 49.54 | 416 | 3.26 | 0.45 | 22.8 |
| 5/2/2015 16:39:03 | 52.17 | 49.87 | 459 | 2.36 | 0.46 | 25.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:39:04 | 52.49 | 50.19 | 488 | 2.41 | 0.46 | 26.7 |
| 5/2/2015 | 16:39:04 | 52.82 | 50.52 | 442 | 2.31 | 0.46 | 24.2 |
| 5/2/2015 | 16:39:07 | 53.15 | 50.85 | 163 | 2.00 | 0.44 | 8.9 |
| 5/2/2015 | 16:39:07 | 53.48 | 51.18 | 204 | 2.49 | 0.47 | 11.2 |
| 5/2/2015 | 16:39:08 | 53.81 | 51.51 | 350 | 2.21 | 0.46 | 19.1 |
| 5/2/2015 | 16:39:09 | 54.13 | 51.83 | 444 | 2.21 | 0.47 | 24.3 |
| 5/2/2015 | 16:39:11 | 54.46 | 52.16 | 388 | 2.42 | 0.48 | 21.2 |
| 5/2/2015 | 16:39:13 | 54.79 | 52.49 | 222 | 2.44 | 0.48 | 12.1 |
| 5/2/2015 | 16:39:18 | 55.12 | 52.82 | 6 | 2.08 | 0.45 | 0.3 |
| 5/2/2015 | 16:39:19 | 55.45 | 53.15 | 94 | 2.08 | 0.43 | 5.2 |
| 5/2/2015 | 16:39:20 | 55.77 | 53.47 | 247 | 2.14 | 0.43 | 13.5 |
| 5/2/2015 | 16:39:20 | 56.10 | 53.80 | 394 | 2.14 | 0.44 | 21.6 |
| 5/2/2015 | 16:39:21 | 56.43 | 54.13 | 544 | 2.14 | 0.44 | 29.8 |
| 5/2/2015 | 16:39:22 | 56.76 | 54.46 | 444 | 1.85 | 0.42 | 24.3 |
| 5/2/2015 | 16:39:23 | 57.09 | 54.79 | 405 | 2.07 | 0.45 | 22.2 |
| 5/2/2015 | 16:39:23 | 57.41 | 55.11 | 361 | 2.18 | 0.46 | 19.7 |
| 5/2/2015 | 16:39:25 | 57.73 | 55.43 | 311 | 2.36 | 0.46 | 17.0 |

## P167 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 16:36:38

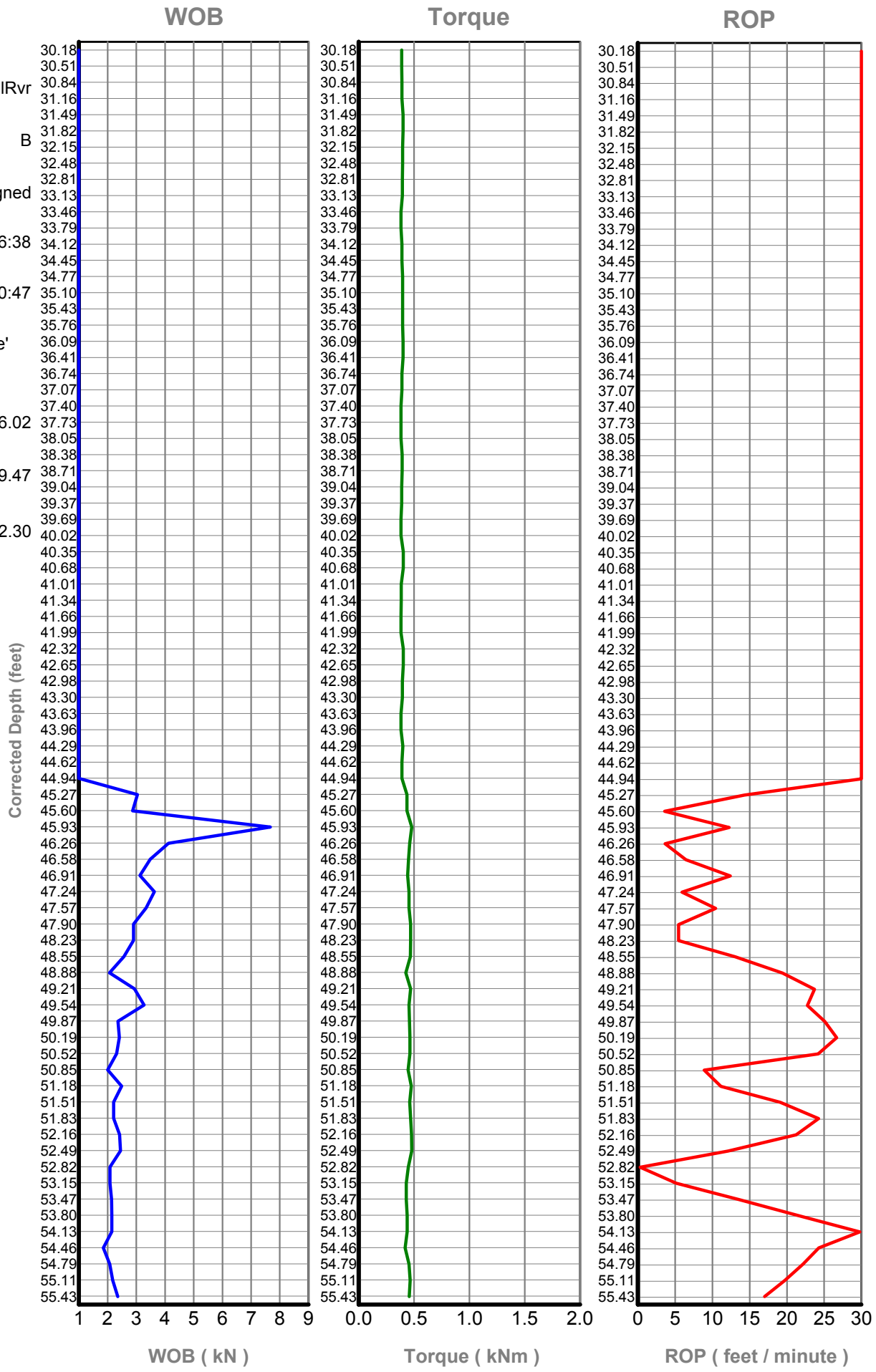
**End Date:**
5/2/2015 16:40:47

**Operator Note:**
'2.3 2.6 b Auto Complete'

**Northing:**
349,526.02

**Easting:**
225,599.47

**Tide (feet):**
2.30



## Hole: P168 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 16:38:28 | 32.48 | 30.18 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/2/2015 16:38:28 | 32.81 | 30.51 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:28 | 33.14 | 30.84 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:28 | 33.46 | 31.16 | 1,168 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 16:38:29 | 33.79 | 31.49 | 1,168 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 16:38:29 | 34.12 | 31.82 | 1,168 | 1.14 | 0.29 | 63.8 |
| 5/2/2015 16:38:29 | 34.45 | 32.15 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/2/2015 16:38:30 | 34.78 | 32.48 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/2/2015 16:38:30 | 35.11 | 32.81 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 16:38:30 | 35.43 | 33.13 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 16:38:30 | 35.76 | 33.46 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 16:38:31 | 36.09 | 33.79 | 1,162 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 16:38:31 | 36.42 | 34.12 | 1,162 | 1.14 | 0.29 | 63.6 |
| 5/2/2015 16:38:31 | 36.75 | 34.45 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 16:38:32 | 37.07 | 34.77 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 16:38:32 | 37.40 | 35.10 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:32 | 37.73 | 35.43 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:33 | 38.06 | 35.76 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:33 | 38.39 | 36.09 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/2/2015 16:38:33 | 38.71 | 36.41 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/2/2015 16:38:33 | 39.04 | 36.74 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/2/2015 16:38:34 | 39.37 | 37.07 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/2/2015 16:38:34 | 39.70 | 37.40 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/2/2015 16:38:34 | 40.03 | 37.73 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:35 | 40.35 | 38.05 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/2/2015 16:38:35 | 40.68 | 38.38 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 16:38:35 | 41.01 | 38.71 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 16:38:35 | 41.34 | 39.04 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/2/2015 16:38:36 | 41.67 | 39.37 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:36 | 41.99 | 39.69 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:36 | 42.32 | 40.02 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:37 | 42.65 | 40.35 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:37 | 42.98 | 40.68 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/2/2015 16:38:38 | 43.31 | 41.01 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:38 | 43.64 | 41.34 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 16:38:38 | 43.96 | 41.66 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/2/2015 16:38:39 | 44.29 | 41.99 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/2/2015 16:38:39 | 44.62 | 42.32 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/2/2015 16:38:39 | 44.95 | 42.65 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/2/2015 16:38:40 | 45.28 | 42.98 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/2/2015 16:38:40 | 45.60 | 43.30 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 16:38:40 | 45.93 | 43.63 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/2/2015 16:38:40 | 46.26 | 43.96 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/2/2015 16:39:07 | 46.59 | 44.29 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:39:08 | 46.92 | 44.62 | 134 | 1.14 | 0.29 | 7.3 |
| 5/2/2015 16:39:09 | 47.24 | 44.94 | 134 | 1.14 | 0.29 | 7.3 |
| 5/2/2015 16:39:09 | 47.57 | 45.27 | 249 | 1.14 | 0.29 | 13.6 |
| 5/2/2015 16:39:10 | 47.90 | 45.60 | 393 | 1.14 | 0.29 | 21.5 |
| 5/2/2015 16:39:10 | 48.23 | 45.93 | 570 | 1.14 | 0.29 | 31.2 |
| 5/2/2015 16:40:07 | 48.56 | 46.26 | 14 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 16:40:08 | 48.88 | 46.58 | 185 | 1.14 | 0.29 | 10.1 |
| 5/2/2015 16:40:43 | 49.21 | 46.91 | 73 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 16:40:44 | 49.54 | 47.24 | 200 | 1.14 | 0.29 | 11.0 |
| 5/2/2015 16:41:19 | 49.87 | 47.57 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 16:42:45 | 50.20 | 47.90 | 14 | 1.14 | 0.29 | 0.7 |
| 5/2/2015 16:44:31 | 50.53 | 48.23 | 22 | 1.14 | 0.29 | 1.2 |
| 5/2/2015 16:44:39 | 50.85 | 48.55 | 91 | 1.14 | 0.29 | 5.0 |
| 5/2/2015 16:46:12 | 51.18 | 48.88 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 16:46:22 | 51.51 | 49.21 | 93 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 16:46:23 | 51.84 | 49.54 | 123 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 16:46:24 | 52.17 | 49.87 | 219 | 1.14 | 0.29 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 16:46:24 | 52.49 | 50.19 | 297 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 | 16:46:25 | 52.82 | 50.52 | 510 | 1.14 | 0.29 | 27.9 |
| 5/2/2015 | 16:46:26 | 53.15 | 50.85 | 595 | 1.14 | 0.29 | 32.5 |
| 5/2/2015 | 16:47:01 | 53.48 | 51.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 16:47:31 | 53.81 | 51.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 16:47:31 | 54.13 | 51.83 | 134 | 1.14 | 0.29 | 7.3 |
| 5/2/2015 | 16:47:32 | 54.46 | 52.16 | 267 | 1.14 | 0.29 | 14.6 |
| 5/2/2015 | 16:47:32 | 54.79 | 52.49 | 393 | 1.14 | 0.29 | 21.5 |
| 5/2/2015 | 16:47:33 | 55.12 | 52.82 | 507 | 1.14 | 0.29 | 27.7 |
| 5/2/2015 | 16:47:34 | 55.45 | 53.15 | 591 | 1.14 | 0.29 | 32.3 |
| 5/2/2015 | 16:47:35 | 55.77 | 53.47 | 473 | 1.14 | 0.29 | 25.9 |
| 5/2/2015 | 16:47:36 | 56.10 | 53.80 | 372 | 1.14 | 0.29 | 20.3 |
| 5/2/2015 | 16:47:36 | 56.43 | 54.13 | 380 | 1.14 | 0.29 | 20.8 |
| 5/2/2015 | 16:47:37 | 56.76 | 54.46 | 380 | 1.14 | 0.29 | 20.8 |
| 5/2/2015 | 16:47:40 | 57.09 | 54.79 | 49 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 16:47:41 | 57.41 | 55.11 | 74 | 1.14 | 0.29 | 4.0 |
| 5/2/2015 | 16:47:42 | 57.74 | 55.44 | 288 | 1.14 | 0.29 | 15.7 |
| 5/2/2015 | 16:47:42 | 57.90 | 55.60 | 341 | 1.14 | 0.29 | 18.6 |

## P168 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 16:37:22

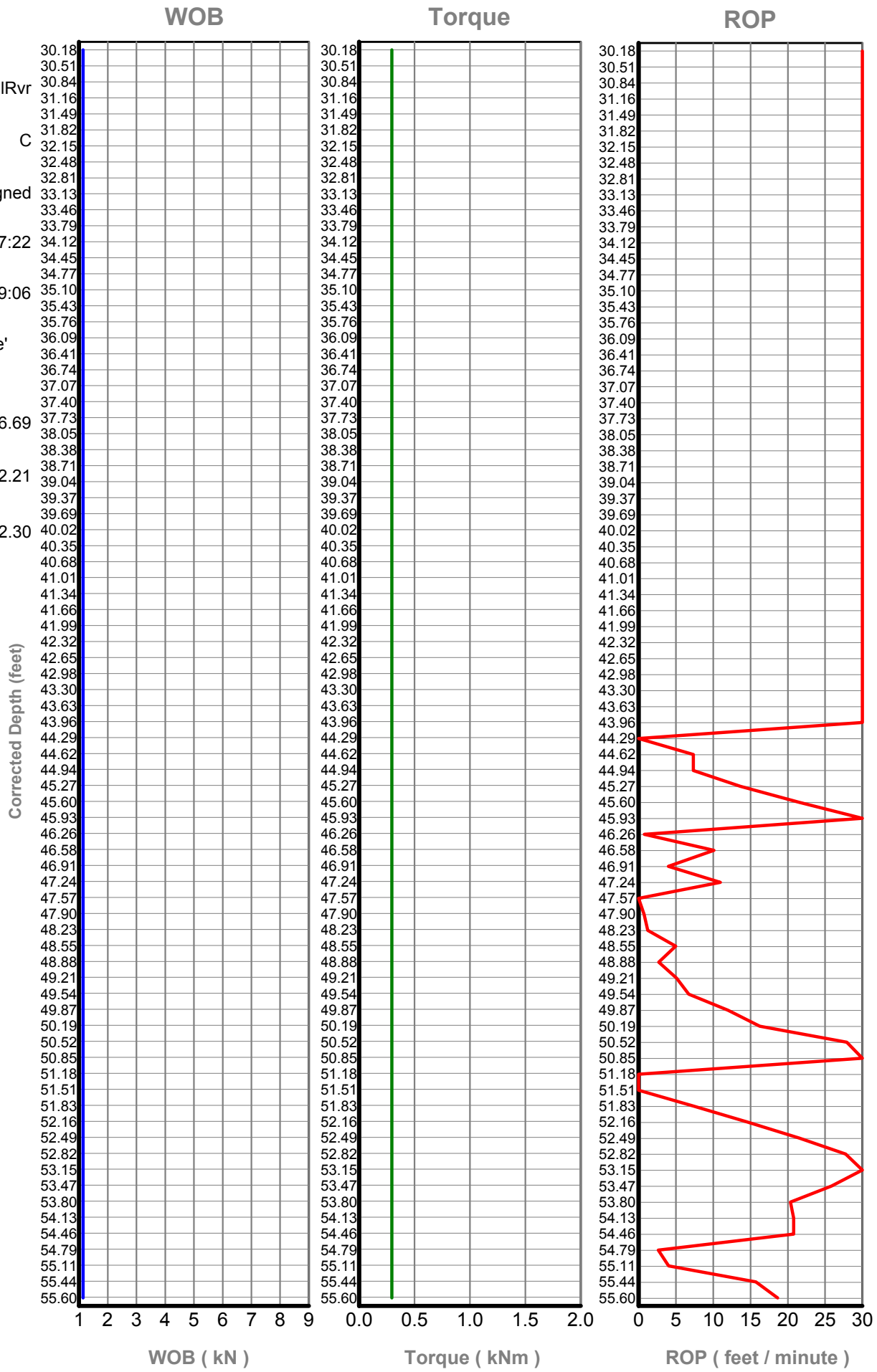
**End Date:**
5/2/2015 16:49:06

**Operator Note:**
'2.3 2.6 c Auto Complete'

**Northing:**
349,566.69

**Easting:**
225,662.21

**Tide (feet):**
2.30



## Hole: P169 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:50:44 | 31.82 | 30.12 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 20:50:45 | 32.15 | 30.45 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 20:50:45 | 32.48 | 30.78 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 20:50:45 | 32.81 | 31.11 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:46 | 33.14 | 31.44 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:46 | 33.46 | 31.76 | 1,151 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:46 | 33.79 | 32.09 | 1,151 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:46 | 34.12 | 32.42 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:47 | 34.45 | 32.75 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:47 | 34.78 | 33.08 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/3/2015 20:50:47 | 35.11 | 33.41 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 20:50:48 | 35.43 | 33.73 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/3/2015 20:50:48 | 35.76 | 34.06 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:49 | 36.09 | 34.39 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:49 | 36.42 | 34.72 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:49 | 36.75 | 35.05 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 20:50:50 | 37.07 | 35.37 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 20:50:50 | 37.40 | 35.70 | 1,142 | 0.54 | 0.17 | 62.5 |
| 5/3/2015 20:50:50 | 37.73 | 36.03 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:51 | 38.06 | 36.36 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:51 | 38.39 | 36.69 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 20:50:51 | 38.71 | 37.01 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 20:50:51 | 39.04 | 37.34 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 20:50:52 | 39.37 | 37.67 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:52 | 39.70 | 38.00 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:52 | 40.03 | 38.33 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 20:50:53 | 40.35 | 38.65 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 20:50:53 | 40.68 | 38.98 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 20:50:53 | 41.01 | 39.31 | 1,129 | 0.54 | 0.17 | 61.7 |
| 5/3/2015 20:50:54 | 41.34 | 39.64 | 1,129 | 0.54 | 0.17 | 61.7 |
| 5/3/2015 20:50:54 | 41.67 | 39.97 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:54 | 41.99 | 40.29 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:55 | 42.32 | 40.62 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:55 | 42.65 | 40.95 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:55 | 42.98 | 41.28 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 20:50:55 | 43.31 | 41.61 | 1,142 | 0.54 | 0.17 | 62.5 |
| 5/3/2015 20:50:56 | 43.64 | 41.94 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:56 | 43.96 | 42.26 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/3/2015 20:50:56 | 44.29 | 42.59 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 20:50:57 | 44.62 | 42.92 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/3/2015 20:50:57 | 44.95 | 43.25 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 20:50:57 | 45.28 | 43.58 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/3/2015 20:50:58 | 45.60 | 43.90 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/3/2015 20:50:58 | 45.93 | 44.23 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 20:50:58 | 46.26 | 44.56 | 1,155 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 20:50:58 | 46.59 | 44.89 | 1,154 | 0.54 | 0.17 | 63.1 |
| 5/3/2015 20:51:06 | 46.92 | 45.22 | 94 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 20:51:09 | 47.24 | 45.54 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 20:51:10 | 47.57 | 45.87 | 215 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 20:51:11 | 47.90 | 46.20 | 343 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 20:51:12 | 48.23 | 46.53 | 352 | 0.54 | 0.17 | 19.2 |
| 5/3/2015 20:51:13 | 48.56 | 46.86 | 381 | 0.54 | 0.17 | 20.8 |
| 5/3/2015 20:51:13 | 48.88 | 47.18 | 418 | 0.54 | 0.17 | 22.9 |
| 5/3/2015 20:51:14 | 49.21 | 47.51 | 479 | 0.54 | 0.17 | 26.2 |
| 5/3/2015 20:51:17 | 49.54 | 47.84 | 104 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 20:51:17 | 49.87 | 48.17 | 216 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 20:51:18 | 50.20 | 48.50 | 342 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 20:51:18 | 50.53 | 48.83 | 466 | 0.54 | 0.17 | 25.5 |
| 5/3/2015 20:51:21 | 50.85 | 49.15 | 171 | 0.54 | 0.17 | 9.3 |
| 5/3/2015 20:51:24 | 51.18 | 49.48 | 171 | 0.54 | 0.17 | 9.3 |
| 5/3/2015 20:51:21 | 51.51 | 49.81 | 186 | 0.54 | 0.17 | 10.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:51:22 | 51.84 | 50.14 | 395 | 0.54 | 0.17 | 21.6 |
| 5/3/2015 | 20:51:22 | 52.17 | 50.47 | 395 | 0.54 | 0.17 | 21.6 |
| 5/3/2015 | 20:51:22 | 52.49 | 50.79 | 610 | 0.54 | 0.17 | 33.3 |
| 5/3/2015 | 20:51:23 | 52.82 | 51.12 | 818 | 0.54 | 0.17 | 44.7 |
| 5/3/2015 | 20:51:24 | 53.15 | 51.45 | 818 | 0.54 | 0.17 | 44.7 |
| 5/3/2015 | 20:51:24 | 53.48 | 51.78 | 1,033 | 0.54 | 0.17 | 56.5 |
| 5/3/2015 | 20:51:24 | 53.81 | 52.11 | 1,052 | 0.54 | 0.17 | 57.6 |
| 5/3/2015 | 20:51:25 | 54.13 | 52.43 | 1,052 | 0.54 | 0.17 | 57.6 |
| 5/3/2015 | 20:51:25 | 54.46 | 52.76 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/3/2015 | 20:51:25 | 54.79 | 53.09 | 1,035 | 0.54 | 0.17 | 56.6 |
| 5/3/2015 | 20:51:26 | 55.12 | 53.42 | 1,035 | 0.54 | 0.17 | 56.6 |
| 5/3/2015 | 20:51:26 | 55.45 | 53.75 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/3/2015 | 20:51:26 | 55.77 | 54.07 | 985 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 | 20:51:27 | 56.10 | 54.40 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 | 20:51:27 | 56.43 | 54.73 | 840 | 0.54 | 0.17 | 45.9 |
| 5/3/2015 | 20:51:28 | 56.76 | 55.06 | 622 | 0.54 | 0.17 | 34.0 |
| 5/3/2015 | 20:51:28 | 56.86 | 55.16 | 622 | 0.54 | 0.17 | 34.0 |

## P169 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:43:42

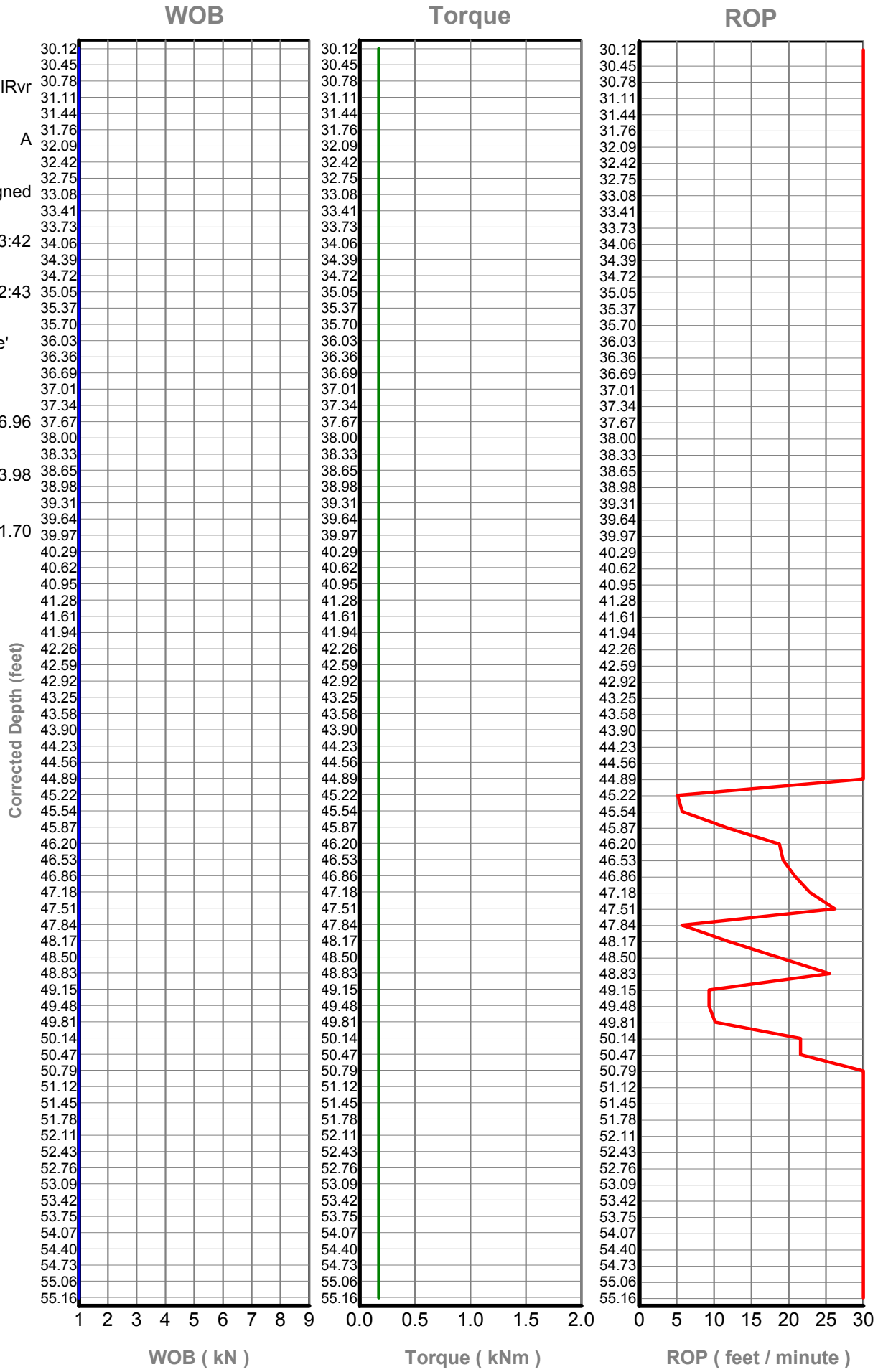
**End Date:**
5/3/2015 20:52:43

**Operator Note:**
'1.7 1.5 a Auto Complete'

**Northing:**
348,586.96

**Easting:**
224,233.98

**Tide (feet):**
1.70



## Hole: P17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:15:18 | 34.12 | 30.12 | 1,292 | 0.26 | 0.38 | 70.6 |
| 5/3/2015 15:15:18 | 34.45 | 30.45 | 1,292 | 0.26 | 0.37 | 70.6 |
| 5/3/2015 15:15:18 | 34.78 | 30.78 | 1,292 | 0.26 | 0.37 | 70.6 |
| 5/3/2015 15:15:18 | 35.11 | 31.11 | 1,295 | 0.26 | 0.39 | 70.8 |
| 5/3/2015 15:15:19 | 35.43 | 31.43 | 1,295 | 0.26 | 0.39 | 70.8 |
| 5/3/2015 15:15:19 | 35.76 | 31.76 | 1,301 | 0.26 | 0.40 | 71.1 |
| 5/3/2015 15:15:19 | 36.09 | 32.09 | 1,289 | 0.26 | 0.37 | 70.5 |
| 5/3/2015 15:15:20 | 36.42 | 32.42 | 1,289 | 0.26 | 0.37 | 70.5 |
| 5/3/2015 15:15:20 | 36.75 | 32.75 | 1,292 | 0.25 | 0.38 | 70.7 |
| 5/3/2015 15:15:20 | 37.07 | 33.07 | 1,292 | 0.25 | 0.38 | 70.7 |
| 5/3/2015 15:15:20 | 37.40 | 33.40 | 1,277 | 0.25 | 0.40 | 69.8 |
| 5/3/2015 15:15:21 | 37.73 | 33.73 | 1,277 | 0.25 | 0.40 | 69.8 |
| 5/3/2015 15:15:21 | 38.06 | 34.06 | 1,277 | 0.25 | 0.36 | 69.8 |
| 5/3/2015 15:15:21 | 38.39 | 34.39 | 1,277 | 0.25 | 0.36 | 69.8 |
| 5/3/2015 15:15:21 | 38.71 | 34.71 | 1,296 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 15:15:22 | 39.04 | 35.04 | 1,296 | 0.26 | 0.38 | 70.9 |
| 5/3/2015 15:15:22 | 39.37 | 35.37 | 1,299 | 0.26 | 0.37 | 71.0 |
| 5/3/2015 15:15:22 | 39.70 | 35.70 | 1,299 | 0.26 | 0.37 | 71.0 |
| 5/3/2015 15:15:22 | 40.03 | 36.03 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/3/2015 15:15:23 | 40.35 | 36.35 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/3/2015 15:15:23 | 40.68 | 36.68 | 1,308 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 15:15:23 | 41.01 | 37.01 | 1,308 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 15:15:23 | 41.34 | 37.34 | 1,337 | 0.25 | 0.39 | 73.1 |
| 5/3/2015 15:15:24 | 41.67 | 37.67 | 1,337 | 0.25 | 0.39 | 73.1 |
| 5/3/2015 15:15:24 | 41.99 | 37.99 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:25 | 42.32 | 38.32 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:25 | 42.65 | 38.65 | 1,302 | 0.26 | 0.37 | 71.2 |
| 5/3/2015 15:15:25 | 42.98 | 38.98 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:26 | 43.31 | 39.31 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:26 | 43.64 | 39.64 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:26 | 43.96 | 39.96 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:26 | 44.29 | 40.29 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:27 | 44.62 | 40.62 | 1,315 | 0.26 | 0.38 | 71.9 |
| 5/3/2015 15:15:27 | 44.95 | 40.95 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 15:15:27 | 45.28 | 41.28 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 15:15:27 | 45.60 | 41.60 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 15:15:28 | 45.93 | 41.93 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 15:15:28 | 46.26 | 42.26 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 15:15:28 | 46.59 | 42.59 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 15:15:28 | 46.92 | 42.92 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 15:15:29 | 47.24 | 43.24 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 15:15:29 | 47.57 | 43.57 | 1,309 | 0.24 | 0.46 | 71.6 |
| 5/3/2015 15:15:35 | 47.90 | 43.90 | 0 | 3.44 | 0.47 | 0.0 |
| 5/3/2015 15:15:38 | 48.23 | 44.23 | 132 | 2.73 | 0.42 | 7.2 |
| 5/3/2015 15:15:38 | 48.56 | 44.56 | 219 | 2.10 | 0.42 | 12.0 |
| 5/3/2015 15:15:39 | 48.88 | 44.88 | 219 | 2.10 | 0.42 | 12.0 |
| 5/3/2015 15:16:57 | 49.21 | 45.21 | 0 | 1.49 | 0.39 | 0.0 |
| 5/3/2015 15:17:51 | 49.54 | 45.54 | 0 | 1.49 | 0.39 | 0.0 |
| 5/3/2015 15:16:57 | 49.87 | 45.87 | 262 | 3.37 | 0.38 | 14.3 |
| 5/3/2015 15:16:58 | 50.20 | 46.20 | 262 | 3.37 | 0.38 | 14.3 |
| 5/3/2015 15:16:59 | 50.53 | 46.53 | 497 | 2.78 | 0.45 | 27.2 |
| 5/3/2015 15:16:59 | 50.85 | 46.85 | 608 | 3.48 | 0.44 | 33.3 |
| 5/3/2015 15:17:00 | 51.18 | 47.18 | 740 | 1.70 | 0.38 | 40.4 |
| 5/3/2015 15:17:00 | 51.51 | 47.51 | 657 | 2.23 | 0.45 | 35.9 |
| 5/3/2015 15:17:01 | 51.84 | 47.84 | 572 | 2.10 | 0.45 | 31.3 |
| 5/3/2015 15:17:02 | 52.17 | 48.17 | 639 | 2.42 | 0.47 | 35.0 |
| 5/3/2015 15:17:09 | 52.49 | 48.49 | 89 | 2.52 | 0.48 | 4.9 |
| 5/3/2015 15:17:14 | 52.82 | 48.82 | 50 | 2.17 | 0.47 | 2.7 |
| 5/3/2015 15:17:16 | 53.15 | 49.15 | 195 | 2.68 | 0.48 | 10.7 |
| 5/3/2015 15:17:24 | 53.48 | 49.48 | 62 | 2.44 | 0.48 | 3.4 |
| 5/3/2015 15:17:28 | 53.81 | 49.81 | 94 | 3.63 | 0.48 | 5.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:17:36 | 54.13 | 50.13 | 52 | 2.97 | 0.48 | 2.8 |
| 5/3/2015 | 15:17:38 | 54.46 | 50.46 | 92 | 4.13 | 0.48 | 5.0 |
| 5/3/2015 | 15:19:01 | 54.79 | 50.79 | 23 | 3.18 | 0.48 | 1.3 |
| 5/3/2015 | 15:19:14 | 55.12 | 51.12 | 32 | 2.79 | 0.49 | 1.7 |
| 5/3/2015 | 15:19:20 | 55.45 | 51.45 | 64 | 2.98 | 0.49 | 3.5 |
| 5/3/2015 | 15:19:27 | 55.77 | 51.77 | 55 | 2.42 | 0.48 | 3.0 |
| 5/3/2015 | 15:19:33 | 56.10 | 52.10 | 60 | 2.55 | 0.48 | 3.3 |
| 5/3/2015 | 15:19:37 | 56.27 | 52.27 | 48 | 2.23 | 0.49 | 2.6 |

## P17 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:13:45

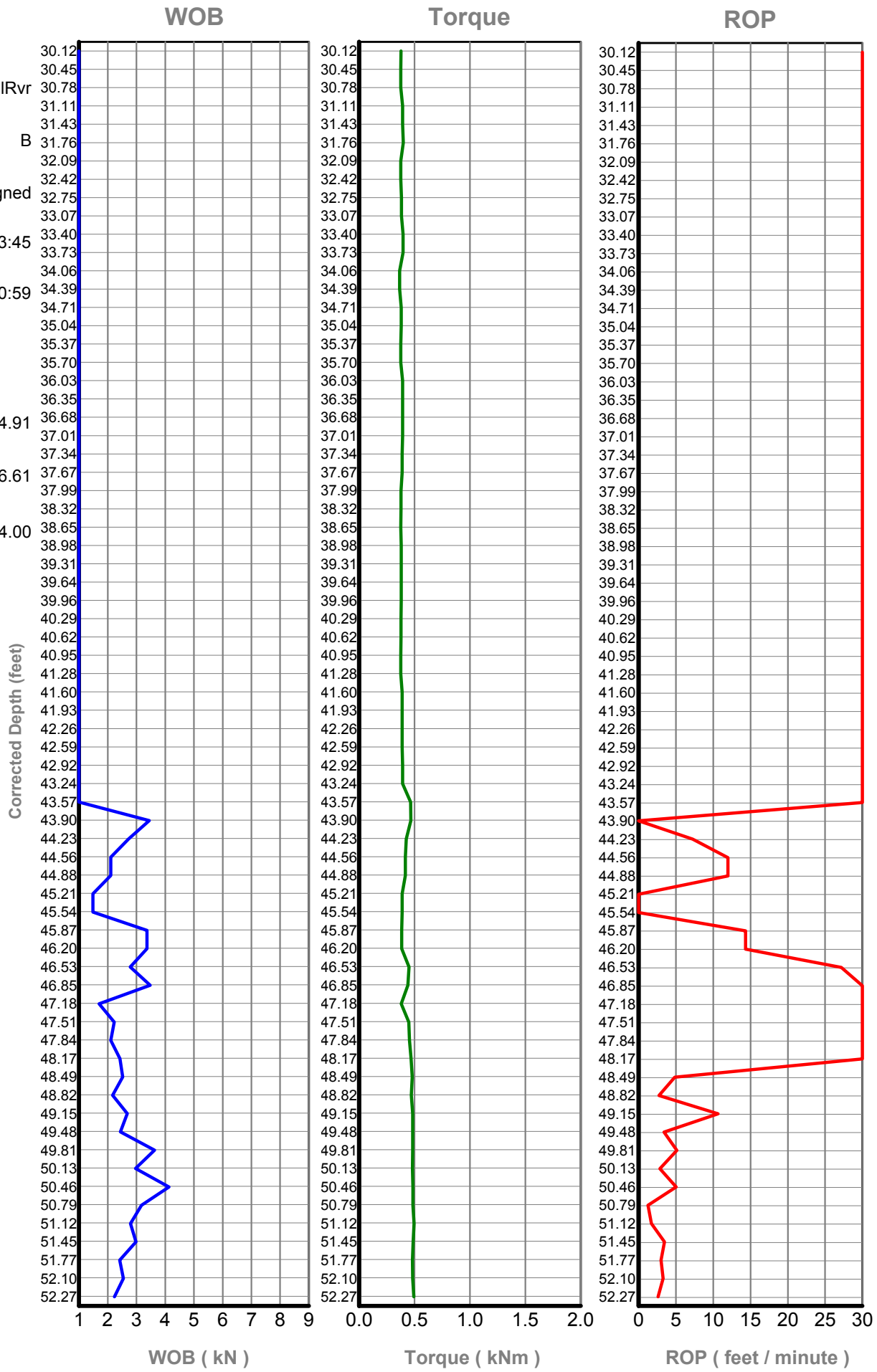
**End Date:**
5/3/2015 15:20:59

**Operator Note:**
'4 4.1 b Auto Complete'

**Northing:**
349,234.91

**Easting:**
224,446.61

**Tide (feet):**
4.00



## Hole: P170 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:53:00 | 32.15 | 30.25 | 481 | 0.26 | 0.30 | 26.3 |
| 5/3/2015 20:53:01 | 32.48 | 30.58 | 467 | 0.28 | 0.36 | 25.5 |
| 5/3/2015 20:53:02 | 32.81 | 30.91 | 475 | 0.28 | 0.12 | 26.0 |
| 5/3/2015 20:53:03 | 33.14 | 31.24 | 466 | 0.52 | 0.39 | 25.5 |
| 5/3/2015 20:53:03 | 33.46 | 31.56 | 466 | 0.30 | 0.24 | 25.5 |
| 5/3/2015 20:53:04 | 33.79 | 31.89 | 480 | 0.26 | 0.27 | 26.3 |
| 5/3/2015 20:53:05 | 34.12 | 32.22 | 480 | 0.28 | 0.13 | 26.3 |
| 5/3/2015 20:53:05 | 34.45 | 32.55 | 486 | 0.28 | 0.28 | 26.6 |
| 5/3/2015 20:53:06 | 34.78 | 32.88 | 480 | 0.29 | 0.21 | 26.2 |
| 5/3/2015 20:53:07 | 35.11 | 33.21 | 477 | 0.29 | 0.43 | 26.1 |
| 5/3/2015 20:53:08 | 35.43 | 33.53 | 467 | 0.28 | 0.11 | 25.5 |
| 5/3/2015 20:53:09 | 35.76 | 33.86 | 472 | 0.28 | 0.28 | 25.8 |
| 5/3/2015 20:53:10 | 36.09 | 34.19 | 474 | 0.27 | 0.15 | 25.9 |
| 5/3/2015 20:53:10 | 36.42 | 34.52 | 480 | 0.30 | 0.36 | 26.2 |
| 5/3/2015 20:53:11 | 36.75 | 34.85 | 482 | 0.29 | 0.21 | 26.4 |
| 5/3/2015 20:53:12 | 37.07 | 35.17 | 481 | 0.30 | 0.44 | 26.3 |
| 5/3/2015 20:53:12 | 37.40 | 35.50 | 483 | 0.29 | 0.14 | 26.4 |
| 5/3/2015 20:53:13 | 37.73 | 35.83 | 483 | 0.30 | 0.23 | 26.4 |
| 5/3/2015 20:53:14 | 38.06 | 36.16 | 483 | 0.29 | 0.37 | 26.4 |
| 5/3/2015 20:53:14 | 38.39 | 36.49 | 491 | 0.27 | 0.22 | 26.8 |
| 5/3/2015 20:53:15 | 38.71 | 36.81 | 485 | 0.29 | 0.42 | 26.5 |
| 5/3/2015 20:53:16 | 39.04 | 37.14 | 482 | 0.28 | 0.34 | 26.4 |
| 5/3/2015 20:53:17 | 39.37 | 37.47 | 483 | 0.27 | 0.19 | 26.4 |
| 5/3/2015 20:53:18 | 39.70 | 37.80 | 481 | 0.28 | 0.14 | 26.3 |
| 5/3/2015 20:53:19 | 40.03 | 38.13 | 469 | 0.26 | 0.11 | 25.7 |
| 5/3/2015 20:53:19 | 40.35 | 38.45 | 480 | 0.28 | 0.40 | 26.3 |
| 5/3/2015 20:53:20 | 40.68 | 38.78 | 472 | 0.29 | 0.43 | 25.8 |
| 5/3/2015 20:53:21 | 41.01 | 39.11 | 480 | 0.27 | 0.28 | 26.2 |
| 5/3/2015 20:53:21 | 41.34 | 39.44 | 482 | 0.29 | 0.12 | 26.4 |
| 5/3/2015 20:53:22 | 41.67 | 39.77 | 480 | 0.27 | 0.25 | 26.3 |
| 5/3/2015 20:53:23 | 41.99 | 40.09 | 471 | 0.27 | 0.46 | 25.8 |
| 5/3/2015 20:53:25 | 42.32 | 40.42 | 275 | 0.28 | 0.14 | 15.0 |
| 5/3/2015 20:53:25 | 42.65 | 40.75 | 255 | 0.30 | 0.16 | 13.9 |
| 5/3/2015 20:53:26 | 42.98 | 41.08 | 241 | 0.22 | 0.08 | 13.2 |
| 5/3/2015 20:53:27 | 43.31 | 41.41 | 256 | 0.28 | 0.11 | 14.0 |
| 5/3/2015 20:53:28 | 43.64 | 41.74 | 439 | 0.26 | 0.24 | 24.0 |
| 5/3/2015 20:53:28 | 43.96 | 42.06 | 459 | 0.29 | 0.43 | 25.1 |
| 5/3/2015 20:53:30 | 44.29 | 42.39 | 463 | 0.27 | 0.43 | 25.3 |
| 5/3/2015 20:53:30 | 44.62 | 42.72 | 463 | 0.29 | 0.23 | 25.3 |
| 5/3/2015 20:53:31 | 44.95 | 43.05 | 464 | 0.28 | 0.16 | 25.4 |
| 5/3/2015 20:53:32 | 45.28 | 43.38 | 464 | 0.31 | 0.46 | 25.4 |
| 5/3/2015 20:53:33 | 45.60 | 43.70 | 462 | 0.30 | 0.41 | 25.2 |
| 5/3/2015 20:53:33 | 45.93 | 44.03 | 462 | 0.31 | 0.43 | 25.2 |
| 5/3/2015 20:53:34 | 46.26 | 44.36 | 473 | 0.27 | 0.29 | 25.9 |
| 5/3/2015 20:53:35 | 46.59 | 44.69 | 469 | 0.29 | 0.33 | 25.6 |
| 5/3/2015 20:53:35 | 46.92 | 45.02 | 451 | 0.27 | 0.42 | 24.7 |
| 5/3/2015 20:53:36 | 47.24 | 45.34 | 471 | 0.28 | 0.36 | 25.7 |
| 5/3/2015 20:53:37 | 47.57 | 45.67 | 469 | 0.31 | 0.42 | 25.7 |
| 5/3/2015 20:53:38 | 47.90 | 46.00 | 475 | 0.27 | 0.46 | 25.9 |
| 5/3/2015 20:53:45 | 48.23 | 46.33 | 49 | 3.63 | 0.46 | 2.7 |
| 5/3/2015 20:53:54 | 48.56 | 46.66 | 0 | 5.41 | 0.48 | 0.0 |
| 5/3/2015 20:53:58 | 48.88 | 46.98 | 86 | 3.69 | 0.43 | 4.7 |
| 5/3/2015 20:53:58 | 49.21 | 47.31 | 171 | 2.68 | 0.33 | 9.4 |
| 5/3/2015 20:53:59 | 49.54 | 47.64 | 271 | 3.30 | 0.36 | 14.8 |
| 5/3/2015 20:54:05 | 49.87 | 47.97 | 59 | 4.96 | 0.43 | 3.2 |
| 5/3/2015 20:54:07 | 50.20 | 48.30 | 261 | 5.02 | 0.43 | 14.3 |
| 5/3/2015 20:54:07 | 50.53 | 48.63 | 349 | 2.88 | 0.33 | 19.1 |
| 5/3/2015 20:54:08 | 50.85 | 48.95 | 399 | 3.01 | 0.32 | 21.8 |
| 5/3/2015 20:54:09 | 51.18 | 49.28 | 462 | 2.23 | 0.32 | 25.3 |
| 5/3/2015 20:54:09 | 51.51 | 49.61 | 462 | 2.42 | 0.43 | 25.3 |
| 5/3/2015 20:54:11 | 51.84 | 49.94 | 489 | 2.52 | 0.45 | 26.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:54:11 | 52.17 | 50.27 | 448 | 2.78 | 0.43 | 24.5 |
| 5/3/2015 | 20:54:12 | 52.49 | 50.59 | 441 | 2.25 | 0.31 | 24.1 |
| 5/3/2015 | 20:54:13 | 52.82 | 50.92 | 441 | 2.48 | 0.41 | 24.1 |
| 5/3/2015 | 20:54:13 | 53.15 | 51.25 | 443 | 2.30 | 0.28 | 24.2 |
| 5/3/2015 | 20:54:14 | 53.48 | 51.58 | 510 | 2.55 | 0.32 | 27.9 |
| 5/3/2015 | 20:54:15 | 53.81 | 51.91 | 533 | 2.52 | 0.28 | 29.2 |
| 5/3/2015 | 20:54:15 | 54.13 | 52.23 | 534 | 1.98 | 0.28 | 29.2 |
| 5/3/2015 | 20:54:28 | 54.46 | 52.56 | 67 | 1.74 | 0.22 | 3.7 |
| 5/3/2015 | 20:54:29 | 54.79 | 52.89 | 67 | 1.93 | 0.28 | 3.7 |
| 5/3/2015 | 20:54:29 | 55.12 | 53.22 | 180 | 2.06 | 0.31 | 9.8 |
| 5/3/2015 | 20:54:30 | 55.45 | 53.55 | 286 | 2.04 | 0.29 | 15.6 |
| 5/3/2015 | 20:54:31 | 55.77 | 53.87 | 500 | 1.93 | 0.28 | 27.4 |
| 5/3/2015 | 20:54:32 | 56.10 | 54.20 | 538 | 1.83 | 0.26 | 29.4 |
| 5/3/2015 | 20:54:32 | 56.43 | 54.53 | 544 | 1.87 | 0.29 | 29.7 |
| 5/3/2015 | 20:54:33 | 56.76 | 54.86 | 538 | 1.88 | 0.26 | 29.4 |
| 5/3/2015 | 20:54:33 | 56.85 | 54.95 | 538 | 1.88 | 0.26 | 29.4 |

## P170 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:50:05

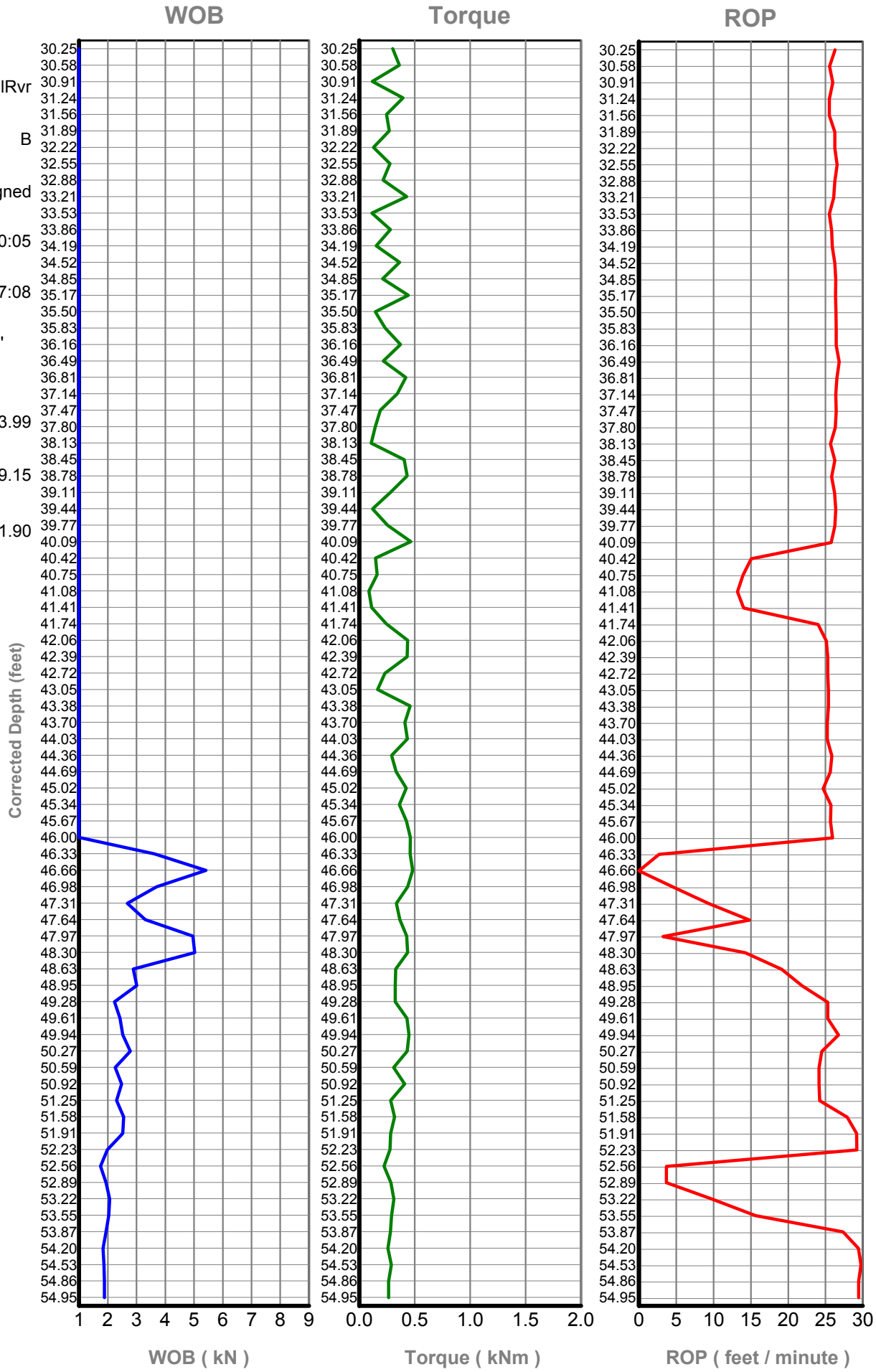
**End Date:**
5/3/2015 20:57:08

**Operator Note:**
'1.9 1.5b Auto Complete'

**Northing:**
348,623.99

**Easting:**
224,299.15

**Tide (feet):**
1.90



## Hole: P171 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:49:57 | 32.15 | 30.25 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:49:57 | 32.48 | 30.58 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:49:58 | 32.81 | 30.91 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:49:58 | 33.14 | 31.24 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:49:58 | 33.46 | 31.56 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 20:49:59 | 33.79 | 31.89 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 20:49:59 | 34.12 | 32.22 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 20:49:59 | 34.45 | 32.55 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 20:50:00 | 34.78 | 32.88 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 20:50:00 | 35.11 | 33.21 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 20:50:00 | 35.43 | 33.53 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 20:50:00 | 35.76 | 33.86 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 20:50:01 | 36.09 | 34.19 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:50:01 | 36.42 | 34.52 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:50:01 | 36.75 | 34.85 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:02 | 37.07 | 35.17 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:50:02 | 37.40 | 35.50 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:50:02 | 37.73 | 35.83 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 20:50:03 | 38.06 | 36.16 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 20:50:03 | 38.39 | 36.49 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 20:50:03 | 38.71 | 36.81 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:04 | 39.04 | 37.14 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:04 | 39.37 | 37.47 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:50:05 | 39.70 | 37.80 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:05 | 40.03 | 38.13 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:05 | 40.35 | 38.45 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:50:06 | 40.68 | 38.78 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:06 | 41.01 | 39.11 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:06 | 41.34 | 39.44 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:07 | 41.67 | 39.77 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:07 | 41.99 | 40.09 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:07 | 42.32 | 40.42 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:50:08 | 42.65 | 40.75 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:50:08 | 42.98 | 41.08 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:08 | 43.31 | 41.41 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:09 | 43.64 | 41.74 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:09 | 43.96 | 42.06 | 1,085 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:50:09 | 44.29 | 42.39 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:10 | 44.62 | 42.72 | 1,089 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:50:10 | 44.95 | 43.05 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:50:10 | 45.28 | 43.38 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:50:10 | 45.60 | 43.70 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:50:11 | 45.93 | 44.03 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:11 | 46.26 | 44.36 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 20:50:11 | 46.59 | 44.69 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:12 | 46.92 | 45.02 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:12 | 47.24 | 45.34 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:13 | 47.57 | 45.67 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:50:22 | 47.90 | 46.00 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 20:50:24 | 48.23 | 46.33 | 97 | 1.14 | 0.29 | 5.3 |
| 5/3/2015 20:50:26 | 48.56 | 46.66 | 155 | 1.14 | 0.29 | 8.5 |
| 5/3/2015 20:50:26 | 48.88 | 46.98 | 288 | 1.14 | 0.29 | 15.7 |
| 5/3/2015 20:50:37 | 49.21 | 47.31 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 20:50:38 | 49.54 | 47.64 | 74 | 1.14 | 0.29 | 4.0 |
| 5/3/2015 20:50:41 | 49.87 | 47.97 | 11 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 20:50:42 | 50.20 | 48.30 | 170 | 1.14 | 0.29 | 9.3 |
| 5/3/2015 20:50:43 | 50.53 | 48.63 | 318 | 1.14 | 0.29 | 17.4 |
| 5/3/2015 20:50:44 | 50.85 | 48.95 | 265 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 20:50:45 | 51.18 | 49.28 | 252 | 1.14 | 0.29 | 13.8 |
| 5/3/2015 20:50:45 | 51.51 | 49.61 | 320 | 1.14 | 0.29 | 17.5 |
| 5/3/2015 20:50:53 | 51.84 | 49.94 | 68 | 1.14 | 0.29 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:50:56 | 52.17 | 50.27 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 20:50:58 | 52.49 | 50.59 | 125 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 | 20:50:59 | 52.82 | 50.92 | 250 | 1.14 | 0.29 | 13.7 |
| 5/3/2015 | 20:51:01 | 53.15 | 51.25 | 252 | 1.14 | 0.29 | 13.8 |
| 5/3/2015 | 20:51:04 | 53.48 | 51.58 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 | 20:51:07 | 53.81 | 51.91 | 188 | 1.14 | 0.29 | 10.3 |
| 5/3/2015 | 20:51:13 | 54.13 | 52.23 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 20:51:25 | 54.46 | 52.56 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 20:51:43 | 54.79 | 52.89 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 | 20:51:54 | 54.98 | 53.08 | 17 | 1.14 | 0.29 | 1.0 |

## P171 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:49:01

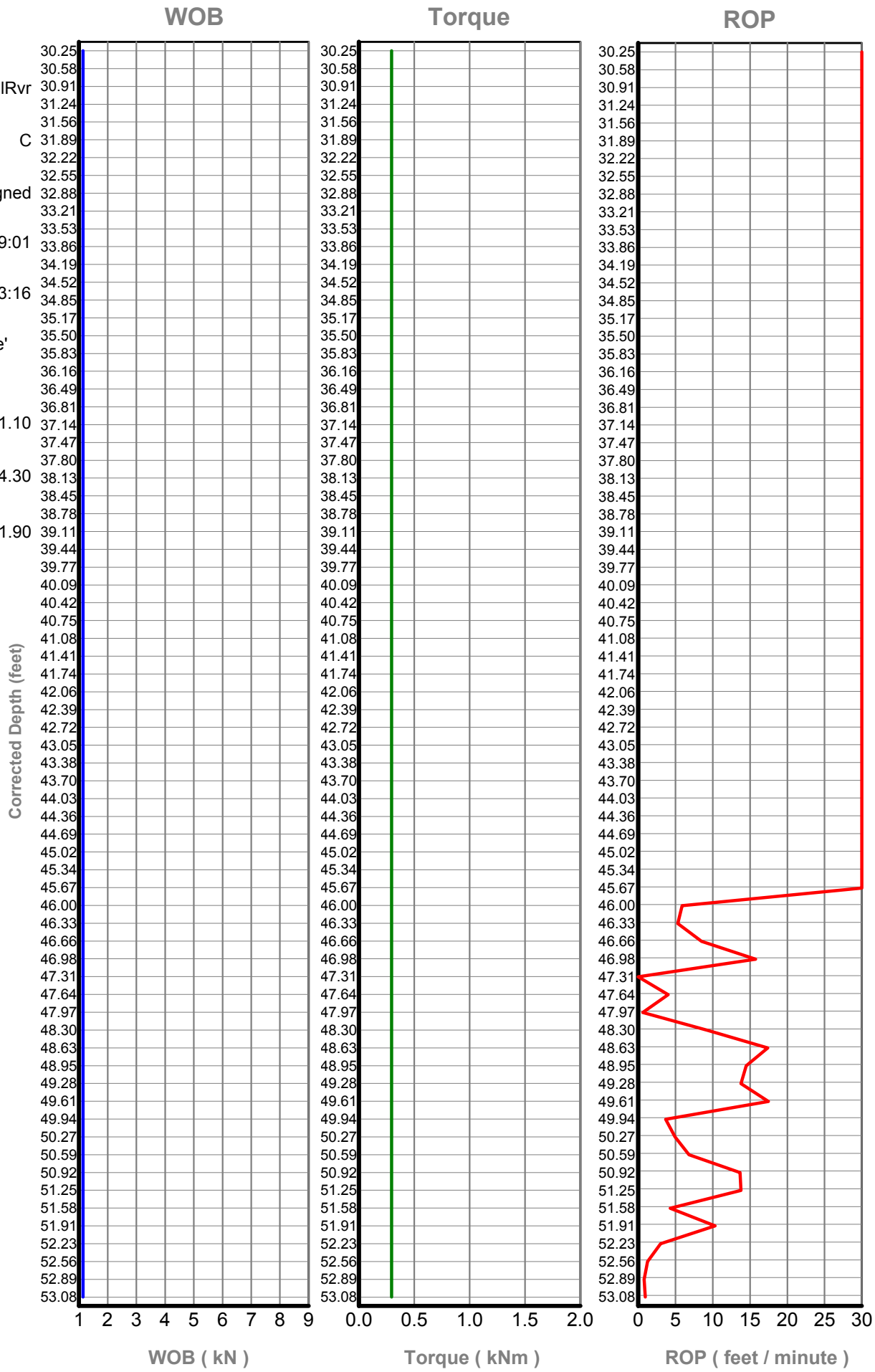
**End Date:**
5/3/2015 20:53:16

**Operator Note:**
'1.9 1.5 c Auto Complete'

**Northing:**
348,661.10

**Easting:**
224,364.30

**Tide (feet):**
1.90



## Hole: P172 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:21:36 | 32.15 | 30.15 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:37 | 32.48 | 30.48 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:37 | 32.81 | 30.81 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:38 | 33.14 | 31.14 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:38 | 33.46 | 31.46 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:38 | 33.79 | 31.79 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:39 | 34.12 | 32.12 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 17:21:39 | 34.45 | 32.45 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:40 | 34.78 | 32.78 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:40 | 35.11 | 33.11 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:40 | 35.43 | 33.43 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 17:21:41 | 35.76 | 33.76 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:41 | 36.09 | 34.09 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:42 | 36.42 | 34.42 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:42 | 36.75 | 34.75 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:42 | 37.07 | 35.07 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:43 | 37.40 | 35.40 | 883 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 17:21:43 | 37.73 | 35.73 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:44 | 38.06 | 36.06 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:44 | 38.39 | 36.39 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:45 | 38.71 | 36.71 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:21:45 | 39.04 | 37.04 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:46 | 39.37 | 37.37 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:46 | 39.70 | 37.70 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:46 | 40.03 | 38.03 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:47 | 40.35 | 38.35 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:47 | 40.68 | 38.68 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:48 | 41.01 | 39.01 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:21:48 | 41.34 | 39.34 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:48 | 41.67 | 39.67 | 872 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:49 | 41.99 | 39.99 | 872 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:49 | 42.32 | 40.32 | 870 | 0.54 | 0.17 | 47.6 |
| 5/3/2015 17:21:50 | 42.65 | 40.65 | 870 | 0.54 | 0.17 | 47.6 |
| 5/3/2015 17:21:50 | 42.98 | 40.98 | 872 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:50 | 43.31 | 41.31 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:51 | 43.64 | 41.64 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:51 | 43.96 | 41.96 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:51 | 44.29 | 42.29 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:52 | 44.62 | 42.62 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:52 | 44.95 | 42.95 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:21:53 | 45.28 | 43.28 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:53 | 45.60 | 43.60 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:21:53 | 45.93 | 43.93 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:22:07 | 46.26 | 44.26 | 85 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 17:22:11 | 46.59 | 44.59 | 100 | 0.54 | 0.17 | 5.5 |
| 5/3/2015 17:22:11 | 46.92 | 44.92 | 100 | 0.54 | 0.17 | 5.5 |
| 5/3/2015 17:22:12 | 47.24 | 45.24 | 381 | 0.54 | 0.17 | 20.8 |
| 5/3/2015 17:22:13 | 47.57 | 45.57 | 532 | 0.54 | 0.17 | 29.1 |
| 5/3/2015 17:22:13 | 47.90 | 45.90 | 553 | 0.54 | 0.17 | 30.2 |
| 5/3/2015 17:22:14 | 48.23 | 46.23 | 450 | 0.54 | 0.17 | 24.6 |
| 5/3/2015 17:22:14 | 48.56 | 46.56 | 495 | 0.54 | 0.17 | 27.1 |
| 5/3/2015 17:22:15 | 48.88 | 46.88 | 565 | 0.54 | 0.17 | 30.9 |
| 5/3/2015 17:22:16 | 49.21 | 47.21 | 567 | 0.54 | 0.17 | 31.0 |
| 5/3/2015 17:22:18 | 49.54 | 47.54 | 249 | 0.54 | 0.17 | 13.6 |
| 5/3/2015 17:22:28 | 49.87 | 47.87 | 68 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 17:22:29 | 50.20 | 48.20 | 186 | 0.54 | 0.17 | 10.2 |
| 5/3/2015 17:22:35 | 50.53 | 48.53 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 17:22:38 | 50.85 | 48.85 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 17:22:41 | 51.18 | 49.18 | 125 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 17:22:48 | 51.51 | 49.51 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 17:22:51 | 51.84 | 49.84 | 140 | 0.54 | 0.17 | 7.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 17:23:00 | 52.17 | 50.17 | 32 | 0.54 | 0.17 | 1.8 |
| 5/3/2015 17:23:08 | 52.49 | 50.49 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 17:23:24 | 52.82 | 50.82 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:23:41 | 53.15 | 51.15 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:23:58 | 53.48 | 51.48 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 17:24:03 | 53.59 | 51.59 | 20 | 0.54 | 0.17 | 1.1 |

## P172 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:19:58

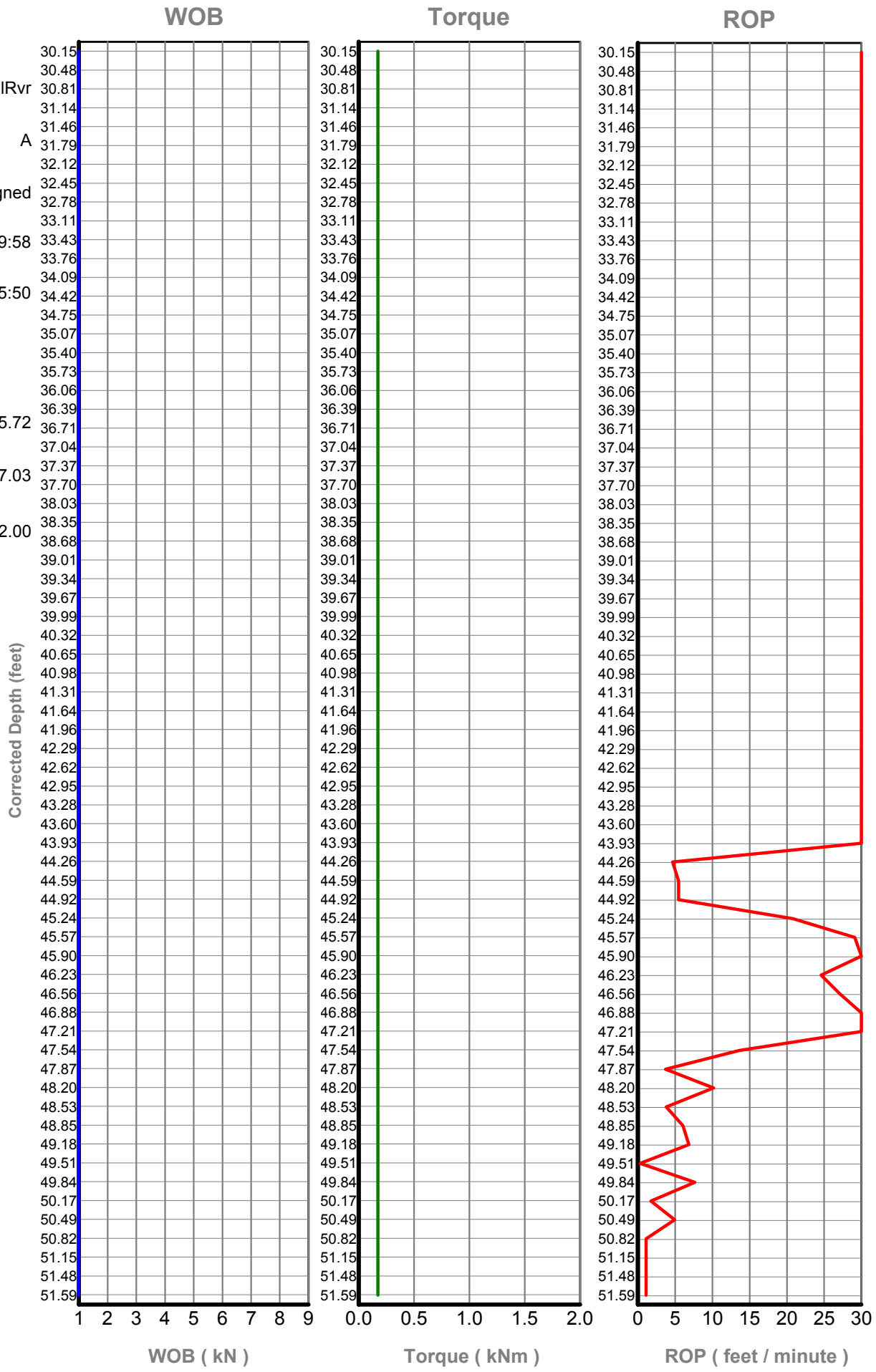
**End Date:**
5/3/2015 17:25:50

**Operator Note:**
'2 2.1a Auto Complete'

**Northing:**
348,705.72

**Easting:**
224,437.03

**Tide (feet):**
2.00



## Hole: P173 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:21:19 | 32.15 | 30.15 | 1,324 | 0.27 | 0.37 | 72.4 |
| 5/3/2015 17:21:20 | 32.48 | 30.48 | 1,324 | 0.27 | 0.37 | 72.4 |
| 5/3/2015 17:21:20 | 32.81 | 30.81 | 1,321 | 0.24 | 0.36 | 72.2 |
| 5/3/2015 17:21:20 | 33.14 | 31.14 | 1,321 | 0.24 | 0.36 | 72.2 |
| 5/3/2015 17:21:20 | 33.46 | 31.46 | 1,324 | 0.24 | 0.34 | 72.4 |
| 5/3/2015 17:21:21 | 33.79 | 31.79 | 1,324 | 0.24 | 0.34 | 72.4 |
| 5/3/2015 17:21:21 | 34.12 | 32.12 | 1,321 | 0.25 | 0.38 | 72.2 |
| 5/3/2015 17:21:21 | 34.45 | 32.45 | 1,324 | 0.26 | 0.35 | 72.4 |
| 5/3/2015 17:21:22 | 34.78 | 32.78 | 1,324 | 0.26 | 0.35 | 72.4 |
| 5/3/2015 17:21:22 | 35.11 | 33.11 | 1,321 | 0.25 | 0.39 | 72.2 |
| 5/3/2015 17:21:22 | 35.43 | 33.43 | 1,321 | 0.25 | 0.39 | 72.2 |
| 5/3/2015 17:21:22 | 35.76 | 33.76 | 1,318 | 0.25 | 0.36 | 72.1 |
| 5/3/2015 17:21:23 | 36.09 | 34.09 | 1,318 | 0.25 | 0.36 | 72.1 |
| 5/3/2015 17:21:23 | 36.42 | 34.42 | 1,305 | 0.25 | 0.39 | 71.4 |
| 5/3/2015 17:21:23 | 36.75 | 34.75 | 1,305 | 0.25 | 0.39 | 71.4 |
| 5/3/2015 17:21:23 | 37.07 | 35.07 | 1,315 | 0.25 | 0.36 | 71.9 |
| 5/3/2015 17:21:24 | 37.40 | 35.40 | 1,315 | 0.25 | 0.36 | 71.9 |
| 5/3/2015 17:21:24 | 37.73 | 35.73 | 1,310 | 0.24 | 0.35 | 71.6 |
| 5/3/2015 17:21:24 | 38.06 | 36.06 | 1,310 | 0.24 | 0.35 | 71.6 |
| 5/3/2015 17:21:24 | 38.39 | 36.39 | 1,313 | 0.25 | 0.35 | 71.8 |
| 5/3/2015 17:21:25 | 38.71 | 36.71 | 1,313 | 0.25 | 0.35 | 71.8 |
| 5/3/2015 17:21:25 | 39.04 | 37.04 | 1,315 | 0.24 | 0.40 | 71.9 |
| 5/3/2015 17:21:25 | 39.37 | 37.37 | 1,315 | 0.24 | 0.40 | 71.9 |
| 5/3/2015 17:21:25 | 39.70 | 37.70 | 1,321 | 0.25 | 0.37 | 72.2 |
| 5/3/2015 17:21:26 | 40.03 | 38.03 | 1,321 | 0.25 | 0.37 | 72.2 |
| 5/3/2015 17:21:26 | 40.35 | 38.35 | 1,318 | 0.25 | 0.38 | 72.1 |
| 5/3/2015 17:21:26 | 40.68 | 38.68 | 1,318 | 0.25 | 0.38 | 72.1 |
| 5/3/2015 17:21:26 | 41.01 | 39.01 | 1,324 | 0.26 | 0.31 | 72.4 |
| 5/3/2015 17:21:27 | 41.34 | 39.34 | 1,324 | 0.26 | 0.31 | 72.4 |
| 5/3/2015 17:21:27 | 41.67 | 39.67 | 1,313 | 0.25 | 0.32 | 71.8 |
| 5/3/2015 17:21:27 | 41.99 | 39.99 | 1,313 | 0.25 | 0.32 | 71.8 |
| 5/3/2015 17:21:27 | 42.32 | 40.32 | 1,321 | 0.24 | 0.39 | 72.2 |
| 5/3/2015 17:21:28 | 42.65 | 40.65 | 1,318 | 0.26 | 0.32 | 72.1 |
| 5/3/2015 17:21:28 | 42.98 | 40.98 | 1,318 | 0.26 | 0.32 | 72.1 |
| 5/3/2015 17:21:29 | 43.31 | 41.31 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 17:21:29 | 43.64 | 41.64 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 17:21:29 | 43.96 | 41.96 | 1,315 | 0.24 | 0.37 | 71.9 |
| 5/3/2015 17:21:30 | 44.29 | 42.29 | 1,315 | 0.24 | 0.37 | 71.9 |
| 5/3/2015 17:21:30 | 44.62 | 42.62 | 1,318 | 0.25 | 0.37 | 72.1 |
| 5/3/2015 17:21:30 | 44.95 | 42.95 | 1,318 | 0.25 | 0.37 | 72.1 |
| 5/3/2015 17:21:30 | 45.28 | 43.28 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 17:21:31 | 45.60 | 43.60 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 17:21:31 | 45.93 | 43.93 | 1,318 | 0.25 | 0.36 | 72.1 |
| 5/3/2015 17:21:31 | 46.26 | 44.26 | 1,318 | 0.25 | 0.36 | 72.1 |
| 5/3/2015 17:21:31 | 46.59 | 44.59 | 1,312 | 0.23 | 0.46 | 71.8 |
| 5/3/2015 17:23:08 | 46.92 | 44.92 | 0 | 1.53 | 0.40 | 0.0 |
| 5/3/2015 17:23:09 | 47.24 | 45.24 | 190 | 2.12 | 0.45 | 10.4 |
| 5/3/2015 17:23:09 | 47.57 | 45.57 | 316 | 2.88 | 0.46 | 17.3 |
| 5/3/2015 17:23:24 | 47.90 | 45.90 | 30 | 6.73 | 0.49 | 1.6 |
| 5/3/2015 17:23:29 | 48.23 | 46.23 | 88 | 3.23 | 0.49 | 4.8 |
| 5/3/2015 17:23:32 | 48.56 | 46.56 | 112 | 3.24 | 0.43 | 6.1 |
| 5/3/2015 17:23:32 | 48.88 | 46.88 | 112 | 6.61 | 0.46 | 6.1 |
| 5/3/2015 17:23:34 | 49.21 | 47.21 | 238 | 3.76 | 0.47 | 13.0 |
| 5/3/2015 17:24:00 | 49.54 | 47.54 | 38 | 3.66 | 0.48 | 2.1 |
| 5/3/2015 17:24:02 | 49.87 | 47.87 | 72 | 3.56 | 0.45 | 3.9 |
| 5/3/2015 17:24:02 | 50.20 | 48.20 | 160 | 2.24 | 0.43 | 8.8 |
| 5/3/2015 17:24:03 | 50.53 | 48.53 | 283 | 1.91 | 0.41 | 15.5 |
| 5/3/2015 17:24:03 | 50.85 | 48.85 | 433 | 2.06 | 0.43 | 23.7 |
| 5/3/2015 17:24:07 | 51.18 | 49.18 | 103 | 6.50 | 0.47 | 5.6 |
| 5/3/2015 17:24:58 | 51.51 | 49.51 | 49 | 3.17 | 0.47 | 2.7 |
| 5/3/2015 17:25:04 | 51.84 | 49.84 | 81 | 2.86 | 0.47 | 4.4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 17:25:09 | 52.17 | 50.17 | 86 | 3.44 | 0.48 | 4.7 |
| 5/3/2015 17:25:12 | 52.49 | 50.49 | 103 | 3.24 | 0.48 | 5.7 |
| 5/3/2015 17:25:18 | 52.82 | 50.82 | 54 | 3.13 | 0.48 | 3.0 |
| 5/3/2015 17:25:25 | 53.15 | 51.15 | 58 | 3.02 | 0.48 | 3.2 |
| 5/3/2015 17:25:33 | 53.48 | 51.48 | 35 | 2.76 | 0.48 | 1.9 |
| 5/3/2015 17:25:37 | 53.61 | 51.61 | 35 | 2.32 | 0.48 | 1.9 |

## P173 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:19:32

**End Date:**
5/3/2015 17:26:51

**Operator Note:**
'2 2.1 b Auto Complete'

**Northing:**
348,747.82

**Easting:**
224,498.56

**Tide (feet):**
2.00



## Hole: P174 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:20:36 | 32.15 | 30.15 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:20:37 | 32.48 | 30.48 | 1,209 | 1.14 | 0.29 | 66.1 |
| 5/3/2015 17:20:37 | 32.81 | 30.81 | 1,209 | 1.14 | 0.29 | 66.1 |
| 5/3/2015 17:20:37 | 33.14 | 31.14 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 17:20:38 | 33.46 | 31.46 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 17:20:38 | 33.79 | 31.79 | 1,213 | 1.14 | 0.29 | 66.4 |
| 5/3/2015 17:20:38 | 34.12 | 32.12 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 17:20:39 | 34.45 | 32.45 | 1,221 | 1.14 | 0.29 | 66.8 |
| 5/3/2015 17:20:39 | 34.78 | 32.78 | 1,210 | 1.14 | 0.29 | 66.2 |
| 5/3/2015 17:20:39 | 35.11 | 33.11 | 1,210 | 1.14 | 0.29 | 66.2 |
| 5/3/2015 17:20:39 | 35.43 | 33.43 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:40 | 35.76 | 33.76 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:40 | 36.09 | 34.09 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 17:20:40 | 36.42 | 34.42 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:41 | 36.75 | 34.75 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:41 | 37.07 | 35.07 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:20:42 | 37.40 | 35.40 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:20:41 | 37.73 | 35.73 | 1,193 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:20:42 | 38.06 | 36.06 | 1,193 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 17:20:42 | 38.39 | 36.39 | 1,202 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 17:20:43 | 38.71 | 36.71 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:43 | 39.04 | 37.04 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:43 | 39.37 | 37.37 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:44 | 39.70 | 37.70 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:20:44 | 40.03 | 38.03 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:20:44 | 40.35 | 38.35 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:20:45 | 40.68 | 38.68 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:20:45 | 41.01 | 39.01 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:20:45 | 41.34 | 39.34 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:20:45 | 41.67 | 39.67 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:46 | 41.99 | 39.99 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:46 | 42.32 | 40.32 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:20:46 | 42.65 | 40.65 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:47 | 42.98 | 40.98 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:20:47 | 43.31 | 41.31 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:20:47 | 43.64 | 41.64 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:20:47 | 43.96 | 41.96 | 1,173 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 17:20:48 | 44.29 | 42.29 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:20:48 | 44.62 | 42.62 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:20:48 | 44.95 | 42.95 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:20:49 | 45.28 | 43.28 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:20:49 | 45.60 | 43.60 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:20:49 | 45.93 | 43.93 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:20:49 | 46.26 | 44.26 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 17:21:03 | 46.59 | 44.59 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 17:21:04 | 46.92 | 44.92 | 53 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 17:21:05 | 47.24 | 45.24 | 292 | 1.14 | 0.29 | 16.0 |
| 5/3/2015 17:21:06 | 47.57 | 45.57 | 422 | 1.14 | 0.29 | 23.1 |
| 5/3/2015 17:21:06 | 47.90 | 45.90 | 552 | 1.14 | 0.29 | 30.2 |
| 5/3/2015 17:21:07 | 48.23 | 46.23 | 648 | 1.14 | 0.29 | 35.4 |
| 5/3/2015 17:21:07 | 48.56 | 46.56 | 679 | 1.14 | 0.29 | 37.1 |
| 5/3/2015 17:21:08 | 48.88 | 46.88 | 679 | 1.14 | 0.29 | 37.1 |
| 5/3/2015 17:21:38 | 49.21 | 47.21 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 17:21:48 | 49.54 | 47.54 | 27 | 1.14 | 0.29 | 1.5 |
| 5/3/2015 17:21:56 | 49.87 | 47.87 | 1 | 1.14 | 0.29 | 0.1 |
| 5/3/2015 17:21:58 | 50.20 | 48.20 | 190 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 17:21:58 | 50.53 | 48.53 | 190 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 17:22:03 | 50.85 | 48.85 | 53 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 17:22:07 | 51.18 | 49.18 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 17:22:56 | 51.51 | 49.51 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 17:23:18 | 51.84 | 49.84 | 17 | 1.14 | 0.29 | 1.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 17:23:32 | 52.17 | 50.17 | 36 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 17:23:48 | 52.49 | 50.49 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 17:23:53 | 52.59 | 50.59 | 17 | 1.14 | 0.29 | 1.0 |

## P174 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:19:40

**End Date:**
5/3/2015 17:25:46

**Operator Note:**
'2 2.1 c Auto Complete'

**Northing:**
348,789.90

**Easting:**
224,560.60

**Tide (feet):**
2.00



## Hole: P175 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:36:43 | 36.09 | 30.29 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 13:36:43 | 36.42 | 30.62 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 13:36:43 | 36.75 | 30.95 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 13:36:44 | 37.07 | 31.27 | 928 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 13:36:44 | 37.40 | 31.60 | 943 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:36:45 | 37.73 | 31.93 | 943 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:36:45 | 38.06 | 32.26 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 13:36:45 | 38.39 | 32.59 | 932 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 13:36:46 | 38.71 | 32.91 | 938 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 13:36:46 | 39.04 | 33.24 | 938 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 13:36:46 | 39.37 | 33.57 | 938 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 13:36:47 | 39.70 | 33.90 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 13:36:47 | 40.03 | 34.23 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 13:36:48 | 40.35 | 34.55 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 13:36:48 | 40.68 | 34.88 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 13:36:48 | 41.01 | 35.21 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 13:36:49 | 41.34 | 35.54 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 13:36:49 | 41.67 | 35.87 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 13:36:49 | 41.99 | 36.19 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 13:36:50 | 42.32 | 36.52 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 13:36:50 | 42.65 | 36.85 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 13:36:50 | 42.98 | 37.18 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 13:36:51 | 43.31 | 37.51 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 13:36:51 | 43.64 | 37.84 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 13:36:52 | 43.96 | 38.16 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 13:36:52 | 44.29 | 38.49 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 13:36:52 | 44.62 | 38.82 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:53 | 44.95 | 39.15 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:54 | 45.28 | 39.48 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:54 | 45.60 | 39.80 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:54 | 45.93 | 40.13 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 13:36:55 | 46.26 | 40.46 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:55 | 46.59 | 40.79 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:55 | 46.92 | 41.12 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 13:36:56 | 47.24 | 41.44 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 13:36:56 | 47.57 | 41.77 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 13:36:57 | 47.90 | 42.10 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 13:36:57 | 48.23 | 42.43 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 13:36:57 | 48.56 | 42.76 | 909 | 0.54 | 0.17 | 49.7 |
| 5/3/2015 13:36:58 | 48.88 | 43.08 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 13:36:58 | 49.21 | 43.41 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 13:36:58 | 49.54 | 43.74 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 13:36:59 | 49.87 | 44.07 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 13:36:59 | 50.20 | 44.40 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 13:37:13 | 50.53 | 44.73 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 13:37:14 | 50.85 | 45.05 | 153 | 0.54 | 0.17 | 8.4 |
| 5/3/2015 13:37:15 | 51.18 | 45.38 | 274 | 0.54 | 0.17 | 15.0 |
| 5/3/2015 13:37:16 | 51.51 | 45.71 | 231 | 0.54 | 0.17 | 12.6 |
| 5/3/2015 13:37:19 | 51.84 | 46.04 | 184 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 13:37:27 | 52.17 | 46.37 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 13:37:43 | 52.49 | 46.69 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 13:37:58 | 52.82 | 47.02 | 22 | 0.54 | 0.17 | 1.2 |
| 5/3/2015 13:38:13 | 53.15 | 47.35 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 13:38:17 | 53.22 | 47.42 | 23 | 0.54 | 0.17 | 1.3 |

## P175 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:35:15

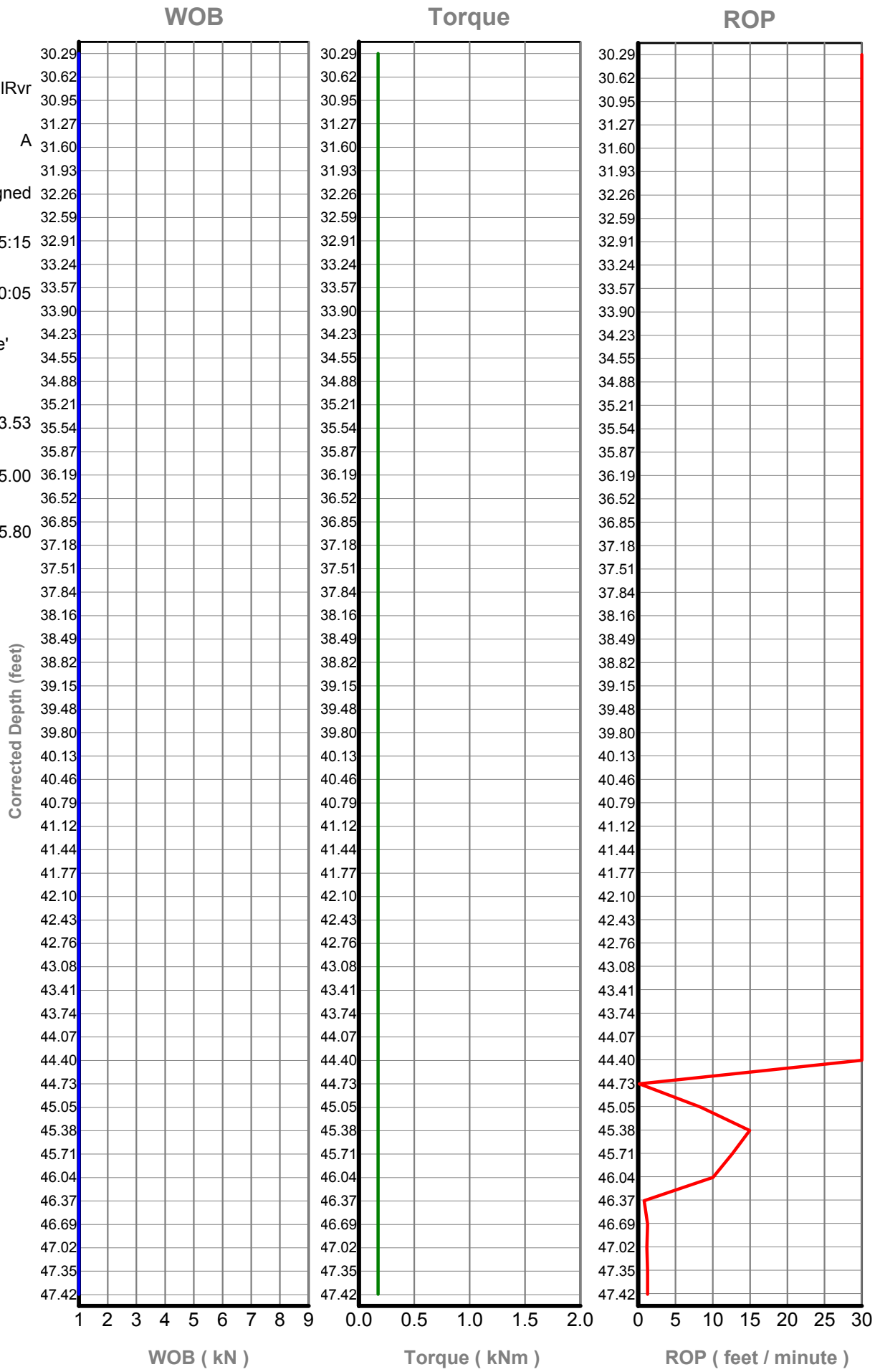
**End Date:**
5/3/2015 13:40:05

**Operator Note:**
'5.8 6.0 a Auto Complete'

**Northing:**
348,823.53

**Easting:**
224,635.00

**Tide (feet):**
5.80



## Hole: P176 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:36:39 | 36.09 | 30.29 | 1,253 | 0.35 | 0.42 | 68.5 |
| 5/3/2015 13:36:39 | 36.42 | 30.62 | 1,253 | 0.35 | 0.42 | 68.5 |
| 5/3/2015 13:36:39 | 36.75 | 30.95 | 1,281 | 0.35 | 0.42 | 70.1 |
| 5/3/2015 13:36:40 | 37.07 | 31.27 | 1,281 | 0.35 | 0.42 | 70.1 |
| 5/3/2015 13:36:40 | 37.40 | 31.60 | 1,280 | 0.36 | 0.44 | 70.0 |
| 5/3/2015 13:36:40 | 37.73 | 31.93 | 1,280 | 0.36 | 0.44 | 70.0 |
| 5/3/2015 13:36:40 | 38.06 | 32.26 | 1,293 | 0.36 | 0.41 | 70.7 |
| 5/3/2015 13:36:41 | 38.39 | 32.59 | 1,293 | 0.36 | 0.41 | 70.7 |
| 5/3/2015 13:36:41 | 38.71 | 32.91 | 1,296 | 0.36 | 0.43 | 70.9 |
| 5/3/2015 13:36:41 | 39.04 | 33.24 | 1,296 | 0.36 | 0.43 | 70.9 |
| 5/3/2015 13:36:41 | 39.37 | 33.57 | 1,312 | 0.36 | 0.42 | 71.8 |
| 5/3/2015 13:36:42 | 39.70 | 33.90 | 1,312 | 0.36 | 0.42 | 71.8 |
| 5/3/2015 13:36:42 | 40.03 | 34.23 | 1,315 | 0.35 | 0.43 | 71.9 |
| 5/3/2015 13:36:42 | 40.35 | 34.55 | 1,315 | 0.35 | 0.43 | 71.9 |
| 5/3/2015 13:36:42 | 40.68 | 34.88 | 1,315 | 0.35 | 0.41 | 71.9 |
| 5/3/2015 13:36:43 | 41.01 | 35.21 | 1,315 | 0.35 | 0.41 | 71.9 |
| 5/3/2015 13:36:43 | 41.34 | 35.54 | 1,310 | 0.29 | 0.36 | 71.6 |
| 5/3/2015 13:36:43 | 41.67 | 35.87 | 1,310 | 0.29 | 0.36 | 71.6 |
| 5/3/2015 13:36:43 | 41.99 | 36.19 | 1,294 | 0.29 | 0.37 | 70.7 |
| 5/3/2015 13:36:44 | 42.32 | 36.52 | 1,294 | 0.29 | 0.37 | 70.7 |
| 5/3/2015 13:36:44 | 42.65 | 36.85 | 1,311 | 0.31 | 0.39 | 71.7 |
| 5/3/2015 13:36:44 | 42.98 | 37.18 | 1,292 | 0.27 | 0.39 | 70.7 |
| 5/3/2015 13:36:45 | 43.31 | 37.51 | 1,292 | 0.27 | 0.39 | 70.7 |
| 5/3/2015 13:36:45 | 43.64 | 37.84 | 1,292 | 0.26 | 0.38 | 70.7 |
| 5/3/2015 13:36:45 | 43.96 | 38.16 | 1,292 | 0.26 | 0.38 | 70.7 |
| 5/3/2015 13:36:45 | 44.29 | 38.49 | 1,289 | 0.26 | 0.38 | 70.5 |
| 5/3/2015 13:36:46 | 44.62 | 38.82 | 1,289 | 0.26 | 0.38 | 70.5 |
| 5/3/2015 13:36:46 | 44.95 | 39.15 | 1,301 | 0.26 | 0.37 | 71.1 |
| 5/3/2015 13:36:46 | 45.28 | 39.48 | 1,301 | 0.26 | 0.37 | 71.1 |
| 5/3/2015 13:36:46 | 45.60 | 39.80 | 1,301 | 0.25 | 0.37 | 71.1 |
| 5/3/2015 13:36:47 | 45.93 | 40.13 | 1,301 | 0.25 | 0.37 | 71.1 |
| 5/3/2015 13:36:47 | 46.26 | 40.46 | 1,309 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 13:36:48 | 46.59 | 40.79 | 1,309 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 13:36:48 | 46.92 | 41.12 | 1,302 | 0.26 | 0.37 | 71.2 |
| 5/3/2015 13:36:48 | 47.24 | 41.44 | 1,302 | 0.26 | 0.37 | 71.2 |
| 5/3/2015 13:36:48 | 47.57 | 41.77 | 1,315 | 0.26 | 0.37 | 71.9 |
| 5/3/2015 13:36:49 | 47.90 | 42.10 | 1,315 | 0.26 | 0.37 | 71.9 |
| 5/3/2015 13:36:49 | 48.23 | 42.43 | 1,312 | 0.26 | 0.38 | 71.8 |
| 5/3/2015 13:36:49 | 48.56 | 42.76 | 1,312 | 0.26 | 0.38 | 71.8 |
| 5/3/2015 13:36:49 | 48.88 | 43.08 | 1,297 | 0.26 | 0.37 | 70.9 |
| 5/3/2015 13:36:50 | 49.21 | 43.41 | 1,305 | 0.26 | 0.37 | 71.4 |
| 5/3/2015 13:36:50 | 49.54 | 43.74 | 1,305 | 0.26 | 0.37 | 71.4 |
| 5/3/2015 13:36:50 | 49.87 | 44.07 | 1,322 | 0.26 | 0.36 | 72.3 |
| 5/3/2015 13:36:51 | 50.20 | 44.40 | 1,322 | 0.26 | 0.36 | 72.3 |
| 5/3/2015 13:36:51 | 50.53 | 44.73 | 1,294 | 0.24 | 0.44 | 70.7 |
| 5/3/2015 13:37:00 | 50.85 | 45.05 | 0 | 2.25 | 0.40 | 0.0 |
| 5/3/2015 13:37:02 | 51.18 | 45.38 | 123 | 3.53 | 0.44 | 6.7 |
| 5/3/2015 13:37:03 | 51.51 | 45.71 | 269 | 3.52 | 0.47 | 14.7 |
| 5/3/2015 13:37:03 | 51.84 | 46.04 | 292 | 3.35 | 0.47 | 16.0 |
| 5/3/2015 13:37:04 | 52.17 | 46.37 | 387 | 4.45 | 0.48 | 21.1 |
| 5/3/2015 13:37:09 | 52.49 | 46.69 | 0 | 2.88 | 0.44 | 0.0 |
| 5/3/2015 13:37:14 | 52.82 | 47.02 | 87 | 3.81 | 0.48 | 4.7 |
| 5/3/2015 13:37:17 | 53.15 | 47.35 | 89 | 3.37 | 0.48 | 4.9 |
| 5/3/2015 13:37:21 | 53.48 | 47.68 | 110 | 2.76 | 0.48 | 6.0 |
| 5/3/2015 13:37:32 | 53.81 | 48.01 | 29 | 2.94 | 0.49 | 1.6 |
| 5/3/2015 13:37:44 | 54.13 | 48.33 | 28 | 2.46 | 0.48 | 1.5 |
| 5/3/2015 13:37:57 | 54.46 | 48.66 | 29 | 2.88 | 0.48 | 1.6 |

## P176 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:34:54

**End Date:**
5/3/2015 13:39:16

**Operator Note:**
'5.8 6.0 b Auto Complete'

**Northing:**
348,863.47

**Easting:**
224,698.48

**Tide (feet):**
5.80



## Hole: P177 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:35:54 | 36.09 | 30.29 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 13:35:54 | 36.42 | 30.62 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:35:54 | 36.75 | 30.95 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:35:55 | 37.07 | 31.27 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:35:55 | 37.40 | 31.60 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:35:55 | 37.73 | 31.93 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:35:55 | 38.06 | 32.26 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:35:56 | 38.39 | 32.59 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:35:56 | 38.71 | 32.91 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:35:56 | 39.04 | 33.24 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:35:57 | 39.37 | 33.57 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:35:57 | 39.70 | 33.90 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:35:57 | 40.03 | 34.23 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 13:35:58 | 40.35 | 34.55 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 13:35:58 | 40.68 | 34.88 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:35:58 | 41.01 | 35.21 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:35:58 | 41.34 | 35.54 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 13:35:59 | 41.67 | 35.87 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 13:35:59 | 41.99 | 36.19 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 13:35:59 | 42.32 | 36.52 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 13:36:00 | 42.65 | 36.85 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 13:36:00 | 42.98 | 37.18 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 13:36:00 | 43.31 | 37.51 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 13:36:01 | 43.64 | 37.84 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 13:36:01 | 43.96 | 38.16 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 13:36:01 | 44.29 | 38.49 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 13:36:01 | 44.62 | 38.82 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:02 | 44.95 | 39.15 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:02 | 45.28 | 39.48 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:02 | 45.60 | 39.80 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:36:03 | 45.93 | 40.13 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:36:03 | 46.26 | 40.46 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 13:36:03 | 46.59 | 40.79 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:04 | 46.92 | 41.12 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:04 | 47.24 | 41.44 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:05 | 47.57 | 41.77 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 13:36:05 | 47.90 | 42.10 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 13:36:06 | 48.23 | 42.43 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 13:36:07 | 48.56 | 42.76 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 13:36:19 | 48.88 | 43.08 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 13:36:20 | 49.21 | 43.41 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 13:36:20 | 49.54 | 43.74 | 197 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 13:36:21 | 49.87 | 44.07 | 412 | 1.14 | 0.29 | 22.5 |
| 5/3/2015 13:36:22 | 50.20 | 44.40 | 523 | 1.14 | 0.29 | 28.6 |
| 5/3/2015 13:36:22 | 50.53 | 44.73 | 523 | 1.14 | 0.29 | 28.6 |
| 5/3/2015 13:36:23 | 50.85 | 45.05 | 566 | 1.14 | 0.29 | 30.9 |
| 5/3/2015 13:36:45 | 51.18 | 45.38 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 13:37:10 | 51.51 | 45.71 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:37:10 | 51.84 | 46.04 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:37:11 | 52.17 | 46.37 | 149 | 1.14 | 0.29 | 8.2 |
| 5/3/2015 13:37:11 | 52.49 | 46.69 | 271 | 1.14 | 0.29 | 14.8 |
| 5/3/2015 13:37:17 | 52.82 | 47.02 | 53 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 13:37:18 | 53.15 | 47.35 | 144 | 1.14 | 0.29 | 7.9 |
| 5/3/2015 13:37:19 | 53.48 | 47.68 | 327 | 1.14 | 0.29 | 17.9 |
| 5/3/2015 13:37:19 | 53.81 | 48.01 | 430 | 1.14 | 0.29 | 23.5 |
| 5/3/2015 13:37:20 | 54.13 | 48.33 | 460 | 1.14 | 0.29 | 25.2 |
| 5/3/2015 13:37:33 | 54.46 | 48.66 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 13:37:35 | 54.79 | 48.99 | 180 | 1.14 | 0.29 | 9.8 |
| 5/3/2015 13:37:36 | 55.12 | 49.32 | 204 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 13:37:45 | 55.45 | 49.65 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 13:37:49 | 55.77 | 49.97 | 64 | 1.14 | 0.29 | 3.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 13:37:54 | 56.10 | 50.30 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 | 13:37:58 | 56.43 | 50.63 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 | 13:38:11 | 56.76 | 50.96 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 | 13:38:24 | 57.09 | 51.29 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 | 13:38:38 | 57.40 | 51.60 | 26 | 1.14 | 0.29 | 1.4 |

## P177 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:34:47

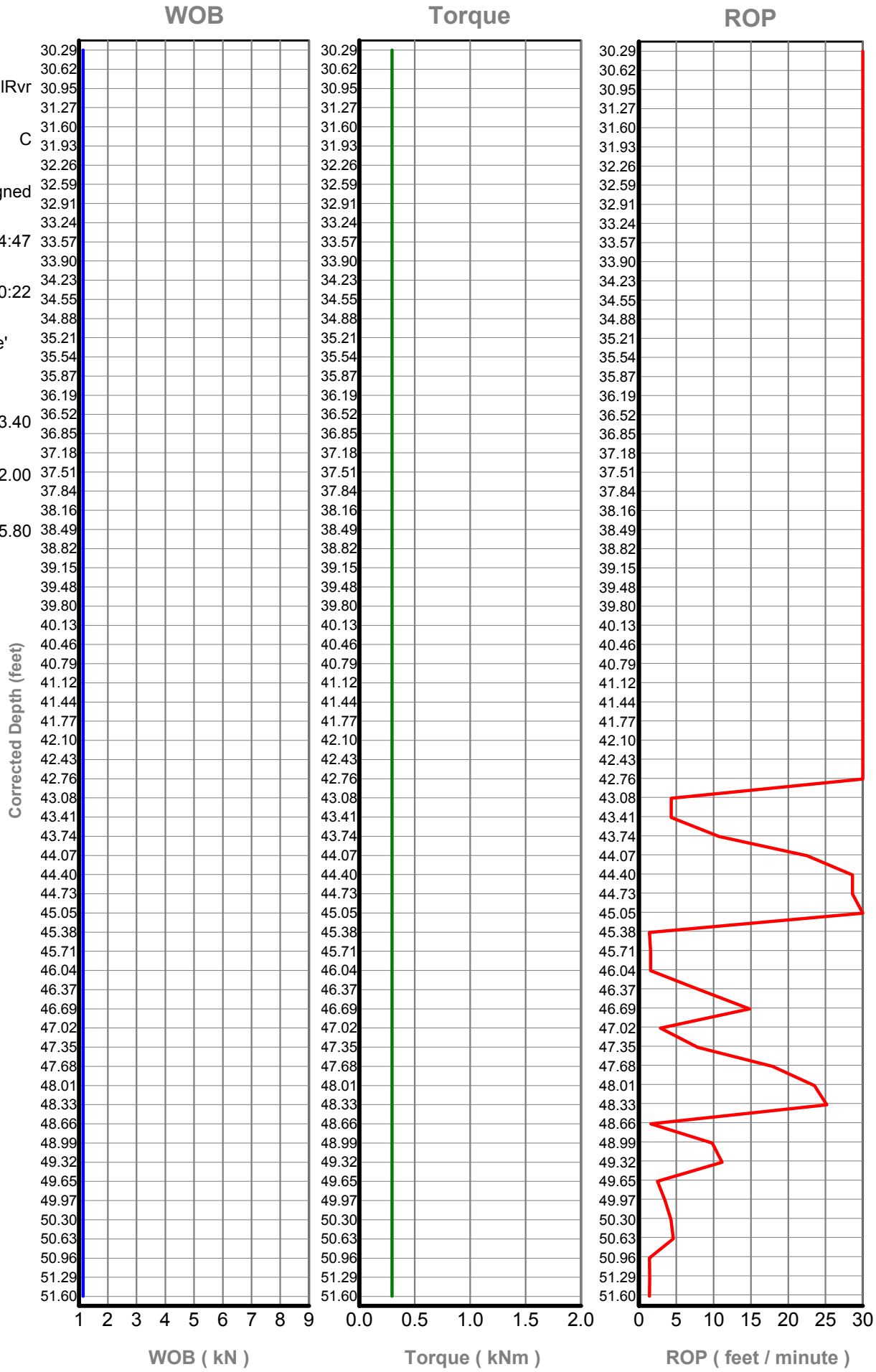
**End Date:**
5/3/2015 13:40:22

**Operator Note:**
'5.8 6,0 c Auto Complete'

**Northing:**
348,903.40

**Easting:**
224,762.00

**Tide (feet):**
5.80



## Hole: P178 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:03:28 | 35.43 | 30.13 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 11:03:28 | 35.76 | 30.46 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:29 | 36.09 | 30.79 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:29 | 36.42 | 31.12 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:29 | 36.75 | 31.45 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:30 | 37.07 | 31.77 | 957 | 0.54 | 0.17 | 52.4 |
| 5/3/2015 11:03:30 | 37.40 | 32.10 | 963 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 11:03:31 | 37.73 | 32.43 | 963 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 11:03:31 | 38.06 | 32.76 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:31 | 38.39 | 33.09 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 11:03:32 | 38.71 | 33.41 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 11:03:32 | 39.04 | 33.74 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 11:03:32 | 39.37 | 34.07 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 11:03:33 | 39.70 | 34.40 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:33 | 40.03 | 34.73 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:33 | 40.35 | 35.05 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:03:34 | 40.68 | 35.38 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 11:03:34 | 41.01 | 35.71 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 11:03:34 | 41.34 | 36.04 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:03:35 | 41.67 | 36.37 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:36 | 41.99 | 36.69 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:36 | 42.32 | 37.02 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:36 | 42.65 | 37.35 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:37 | 42.98 | 37.68 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:03:37 | 43.31 | 38.01 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:03:37 | 43.64 | 38.34 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:38 | 43.96 | 38.66 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:38 | 44.29 | 38.99 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:39 | 44.62 | 39.32 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:39 | 44.95 | 39.65 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:39 | 45.28 | 39.98 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:03:40 | 45.60 | 40.30 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:03:40 | 45.93 | 40.63 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:40 | 46.26 | 40.96 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:03:41 | 46.59 | 41.29 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:41 | 46.92 | 41.62 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:03:41 | 47.24 | 41.94 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:03:42 | 47.57 | 42.27 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:42 | 47.90 | 42.60 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:42 | 48.23 | 42.93 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:43 | 48.56 | 43.26 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:03:43 | 48.88 | 43.58 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:03:56 | 49.21 | 43.91 | 19 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 11:03:56 | 49.54 | 44.24 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 11:03:57 | 49.87 | 44.57 | 237 | 0.54 | 0.17 | 12.9 |
| 5/3/2015 11:03:58 | 50.20 | 44.90 | 376 | 0.54 | 0.17 | 20.6 |
| 5/3/2015 11:03:59 | 50.53 | 45.23 | 412 | 0.54 | 0.17 | 22.5 |
| 5/3/2015 11:04:01 | 50.85 | 45.55 | 268 | 0.54 | 0.17 | 14.7 |
| 5/3/2015 11:04:07 | 51.18 | 45.88 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 11:04:09 | 51.51 | 46.21 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 11:04:09 | 51.84 | 46.54 | 263 | 0.54 | 0.17 | 14.4 |
| 5/3/2015 11:04:10 | 52.17 | 46.87 | 289 | 0.54 | 0.17 | 15.8 |
| 5/3/2015 11:04:12 | 52.49 | 47.19 | 437 | 0.54 | 0.17 | 23.9 |
| 5/3/2015 11:04:13 | 52.82 | 47.52 | 347 | 0.54 | 0.17 | 19.0 |
| 5/3/2015 11:04:14 | 53.15 | 47.85 | 310 | 0.54 | 0.17 | 17.0 |
| 5/3/2015 11:04:15 | 53.48 | 48.18 | 327 | 0.54 | 0.17 | 17.9 |
| 5/3/2015 11:04:16 | 53.81 | 48.51 | 358 | 0.54 | 0.17 | 19.6 |
| 5/3/2015 11:04:17 | 54.13 | 48.83 | 335 | 0.54 | 0.17 | 18.3 |
| 5/3/2015 11:04:17 | 54.46 | 49.16 | 339 | 0.54 | 0.17 | 18.5 |
| 5/3/2015 11:04:18 | 54.79 | 49.49 | 423 | 0.54 | 0.17 | 23.2 |
| 5/3/2015 11:04:19 | 55.12 | 49.82 | 455 | 0.54 | 0.17 | 24.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 11:04:20 | 55.45 | 50.15 | 465 | 0.54 | 0.17 | 25.4 |
| 5/3/2015 | 11:04:20 | 55.77 | 50.47 | 412 | 0.54 | 0.17 | 22.5 |
| 5/3/2015 | 11:04:21 | 56.10 | 50.80 | 436 | 0.54 | 0.17 | 23.9 |
| 5/3/2015 | 11:04:24 | 56.43 | 51.13 | 251 | 0.54 | 0.17 | 13.7 |
| 5/3/2015 | 11:04:28 | 56.76 | 51.46 | 72 | 0.54 | 0.17 | 3.9 |
| 5/3/2015 | 11:04:33 | 57.09 | 51.79 | 69 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 11:04:39 | 57.41 | 52.11 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 | 11:04:49 | 57.74 | 52.44 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 | 11:05:01 | 58.07 | 52.77 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 | 11:05:14 | 58.40 | 53.10 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 | 11:05:17 | 58.50 | 53.20 | 29 | 0.54 | 0.17 | 1.6 |

## P178 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:02:08

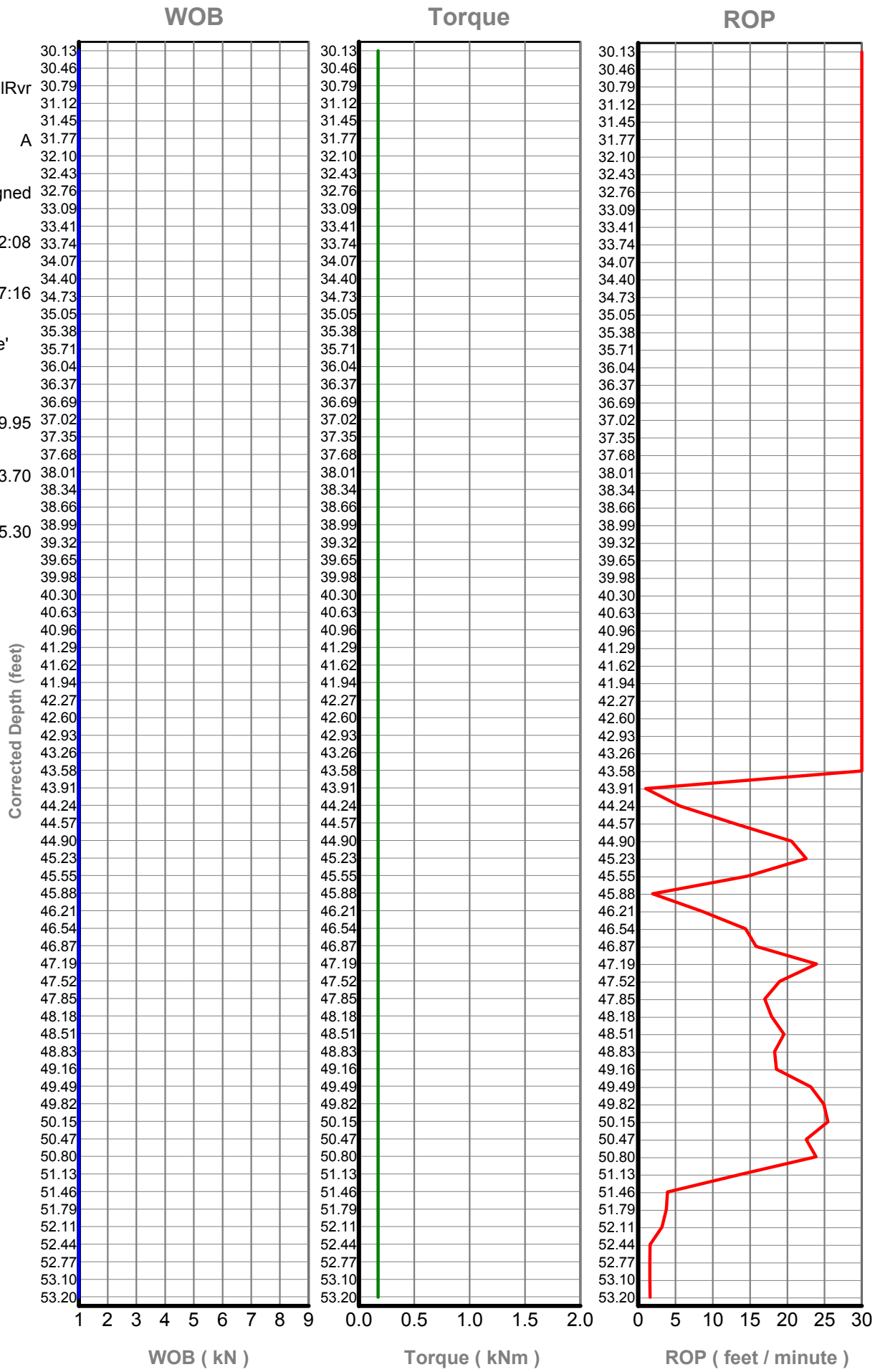
**End Date:**
5/3/2015 11:07:16

**Operator Note:**
'5.3 5.0 a Auto Complete'

**Northing:**
348,939.95

**Easting:**
224,823.70

**Tide (feet):**
5.30



## Hole: P179 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:03:22 | 35.43 | 30.13 | 1,344 | 0.35 | 0.40 | 73.5 |
| 5/3/2015 11:03:23 | 35.76 | 30.46 | 1,344 | 0.35 | 0.40 | 73.5 |
| 5/3/2015 11:03:23 | 36.09 | 30.79 | 1,327 | 0.34 | 0.40 | 72.6 |
| 5/3/2015 11:03:23 | 36.42 | 31.12 | 1,327 | 0.34 | 0.40 | 72.6 |
| 5/3/2015 11:03:23 | 36.75 | 31.45 | 1,321 | 0.35 | 0.39 | 72.2 |
| 5/3/2015 11:03:24 | 37.07 | 31.77 | 1,321 | 0.35 | 0.39 | 72.2 |
| 5/3/2015 11:03:24 | 37.40 | 32.10 | 1,311 | 0.36 | 0.42 | 71.7 |
| 5/3/2015 11:03:24 | 37.73 | 32.43 | 1,311 | 0.36 | 0.42 | 71.7 |
| 5/3/2015 11:03:24 | 38.06 | 32.76 | 1,289 | 0.36 | 0.40 | 70.5 |
| 5/3/2015 11:03:25 | 38.39 | 33.09 | 1,289 | 0.36 | 0.40 | 70.5 |
| 5/3/2015 11:03:25 | 38.71 | 33.41 | 1,289 | 0.37 | 0.42 | 70.5 |
| 5/3/2015 11:03:25 | 39.04 | 33.74 | 1,289 | 0.37 | 0.42 | 70.5 |
| 5/3/2015 11:03:25 | 39.37 | 34.07 | 1,287 | 0.37 | 0.41 | 70.4 |
| 5/3/2015 11:03:26 | 39.70 | 34.40 | 1,287 | 0.37 | 0.41 | 70.4 |
| 5/3/2015 11:03:26 | 40.03 | 34.73 | 1,299 | 0.37 | 0.41 | 71.0 |
| 5/3/2015 11:03:26 | 40.35 | 35.05 | 1,299 | 0.37 | 0.41 | 71.0 |
| 5/3/2015 11:03:26 | 40.68 | 35.38 | 1,312 | 0.37 | 0.41 | 71.7 |
| 5/3/2015 11:03:27 | 41.01 | 35.71 | 1,312 | 0.37 | 0.41 | 71.7 |
| 5/3/2015 11:03:27 | 41.34 | 36.04 | 1,309 | 0.35 | 0.42 | 71.6 |
| 5/3/2015 11:03:27 | 41.67 | 36.37 | 1,316 | 0.26 | 0.40 | 72.0 |
| 5/3/2015 11:03:28 | 41.99 | 36.69 | 1,316 | 0.26 | 0.40 | 72.0 |
| 5/3/2015 11:03:28 | 42.32 | 37.02 | 1,318 | 0.29 | 0.38 | 72.1 |
| 5/3/2015 11:03:28 | 42.65 | 37.35 | 1,318 | 0.29 | 0.38 | 72.1 |
| 5/3/2015 11:03:28 | 42.98 | 37.68 | 1,315 | 0.27 | 0.37 | 71.9 |
| 5/3/2015 11:03:29 | 43.31 | 38.01 | 1,315 | 0.27 | 0.37 | 71.9 |
| 5/3/2015 11:03:29 | 43.64 | 38.34 | 1,315 | 0.29 | 0.37 | 71.9 |
| 5/3/2015 11:03:29 | 43.96 | 38.66 | 1,315 | 0.29 | 0.37 | 71.9 |
| 5/3/2015 11:03:29 | 44.29 | 38.99 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 11:03:29 | 44.62 | 39.32 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 11:03:30 | 44.95 | 39.65 | 1,333 | 0.27 | 0.37 | 72.9 |
| 5/3/2015 11:03:30 | 45.28 | 39.98 | 1,333 | 0.27 | 0.37 | 72.9 |
| 5/3/2015 11:03:31 | 45.60 | 40.30 | 1,336 | 0.27 | 0.37 | 73.0 |
| 5/3/2015 11:03:31 | 45.93 | 40.63 | 1,336 | 0.27 | 0.37 | 73.0 |
| 5/3/2015 11:03:31 | 46.26 | 40.96 | 1,338 | 0.29 | 0.38 | 73.2 |
| 5/3/2015 11:03:32 | 46.59 | 41.29 | 1,338 | 0.29 | 0.38 | 73.2 |
| 5/3/2015 11:03:31 | 46.92 | 41.62 | 1,328 | 0.28 | 0.37 | 72.6 |
| 5/3/2015 11:03:32 | 47.24 | 41.94 | 1,328 | 0.28 | 0.37 | 72.6 |
| 5/3/2015 11:03:32 | 47.57 | 42.27 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/3/2015 11:03:33 | 47.90 | 42.60 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/3/2015 11:03:33 | 48.23 | 42.93 | 1,339 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 11:03:33 | 48.56 | 43.26 | 1,339 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 11:03:33 | 48.88 | 43.58 | 1,339 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 11:03:34 | 49.21 | 43.91 | 1,339 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 11:03:38 | 49.54 | 44.24 | 0 | 3.47 | 0.47 | 0.0 |
| 5/3/2015 11:03:45 | 49.87 | 44.57 | 49 | 2.93 | 0.45 | 2.7 |
| 5/3/2015 11:03:46 | 50.20 | 44.90 | 107 | 3.35 | 0.45 | 5.9 |
| 5/3/2015 11:03:49 | 50.53 | 45.23 | 0 | 3.41 | 0.45 | 0.0 |
| 5/3/2015 11:03:51 | 50.85 | 45.55 | 145 | 3.24 | 0.43 | 7.9 |
| 5/3/2015 11:03:52 | 51.18 | 45.88 | 270 | 2.76 | 0.43 | 14.8 |
| 5/3/2015 11:03:55 | 51.51 | 46.21 | 0 | 2.74 | 0.45 | 0.0 |
| 5/3/2015 11:03:56 | 51.84 | 46.54 | 141 | 4.56 | 0.53 | 7.7 |
| 5/3/2015 11:03:58 | 52.17 | 46.87 | 279 | 4.38 | 0.46 | 15.3 |
| 5/3/2015 11:04:03 | 52.49 | 47.19 | 68 | 3.39 | 0.46 | 3.7 |
| 5/3/2015 11:04:04 | 52.82 | 47.52 | 233 | 3.18 | 0.47 | 12.7 |
| 5/3/2015 11:04:06 | 53.15 | 47.85 | 263 | 3.09 | 0.48 | 14.4 |
| 5/3/2015 11:04:10 | 53.48 | 48.18 | 43 | 2.50 | 0.48 | 2.3 |
| 5/3/2015 11:04:16 | 53.81 | 48.51 | 43 | 3.55 | 0.45 | 2.3 |
| 5/3/2015 11:04:17 | 54.13 | 48.83 | 240 | 3.16 | 0.41 | 13.1 |
| 5/3/2015 11:04:17 | 54.46 | 49.16 | 377 | 2.86 | 0.43 | 20.6 |
| 5/3/2015 11:04:24 | 54.79 | 49.49 | 3 | 5.82 | 0.49 | 0.2 |
| 5/3/2015 11:04:29 | 55.12 | 49.82 | 95 | 3.09 | 0.45 | 5.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:04:29 | 55.45 | 50.15 | 204 | 2.71 | 0.45 | 11.2 |
| 5/3/2015 11:04:30 | 55.77 | 50.47 | 204 | 2.48 | 0.44 | 11.2 |
| 5/3/2015 11:04:45 | 56.10 | 50.80 | 0 | 3.15 | 0.48 | 0.0 |
| 5/3/2015 11:04:47 | 56.43 | 51.13 | 124 | 2.72 | 0.46 | 6.8 |
| 5/3/2015 11:04:48 | 56.76 | 51.46 | 168 | 2.02 | 0.43 | 9.2 |
| 5/3/2015 11:04:48 | 57.09 | 51.79 | 306 | 1.85 | 0.43 | 16.7 |
| 5/3/2015 11:04:49 | 57.41 | 52.11 | 412 | 2.10 | 0.45 | 22.5 |
| 5/3/2015 11:04:52 | 57.74 | 52.44 | 175 | 2.99 | 0.47 | 9.5 |
| 5/3/2015 11:05:01 | 58.07 | 52.77 | 24 | 2.21 | 0.49 | 1.3 |
| 5/3/2015 11:05:36 | 58.40 | 53.10 | 27 | 2.65 | 0.49 | 1.5 |
| 5/3/2015 11:05:51 | 58.73 | 53.43 | 26 | 2.57 | 0.49 | 1.4 |
| 5/3/2015 11:06:03 | 58.98 | 53.68 | 23 | 2.52 | 0.49 | 1.3 |

## P179 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:01:59

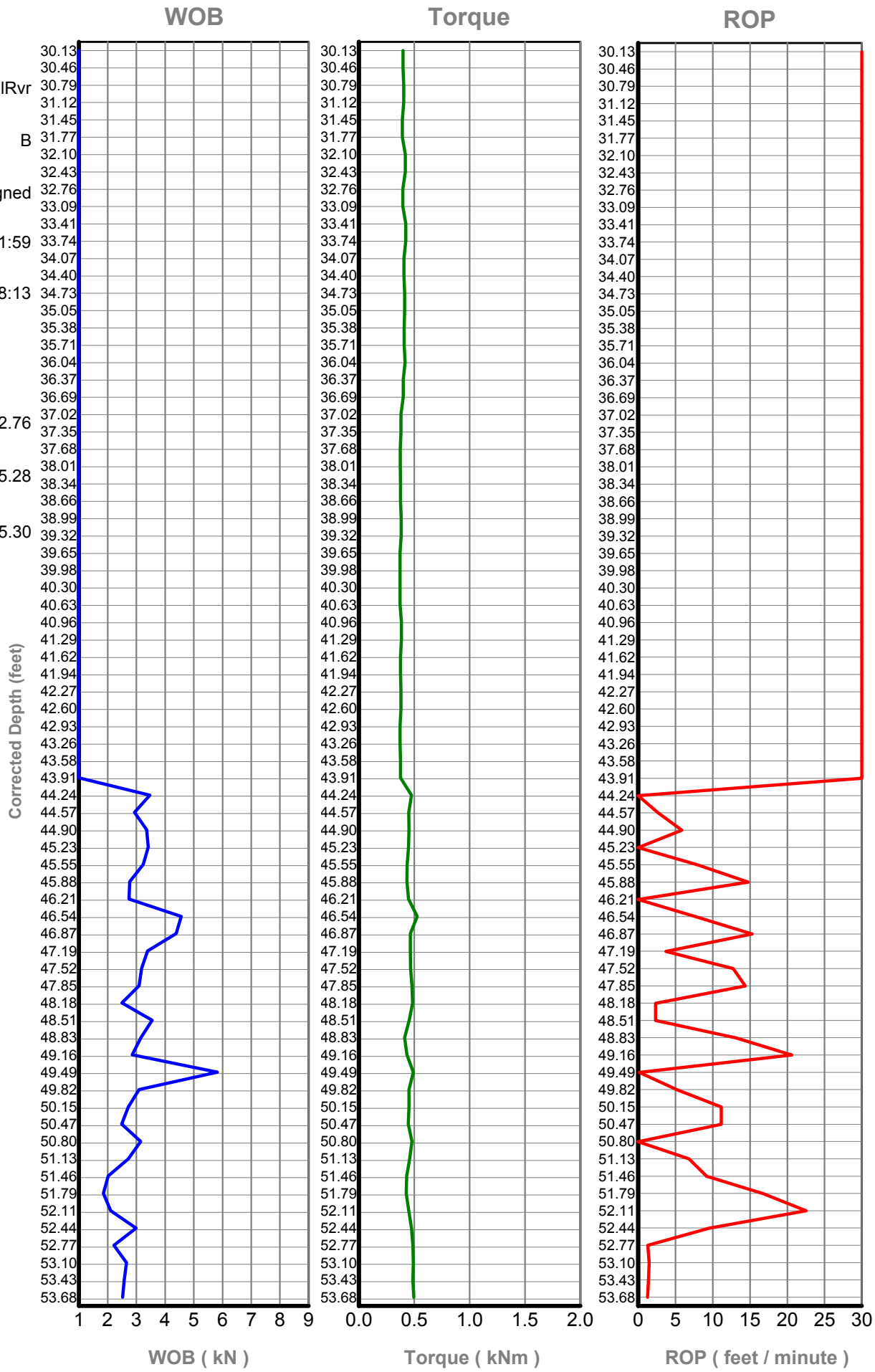
**End Date:**
5/3/2015 11:08:13

**Operator Note:**
'5.3 5.0 b Rock'

**Northing:**
348,982.76

**Easting:**
224,885.28

**Tide (feet):**
5.30



## Hole: P18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:15:32 | 34.12 | 30.12 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 15:15:32 | 34.45 | 30.45 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 15:15:32 | 34.78 | 30.78 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:15:33 | 35.11 | 31.11 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 15:15:33 | 35.43 | 31.43 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 15:15:33 | 35.76 | 31.76 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:15:34 | 36.09 | 32.09 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:15:34 | 36.42 | 32.42 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:15:34 | 36.75 | 32.75 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 15:15:35 | 37.07 | 33.07 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 15:15:35 | 37.40 | 33.40 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 15:15:35 | 37.73 | 33.73 | 1,195 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 15:15:35 | 38.06 | 34.06 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:15:36 | 38.39 | 34.39 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:15:36 | 38.71 | 34.71 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 15:15:36 | 39.04 | 35.04 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:15:37 | 39.37 | 35.37 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:15:37 | 39.70 | 35.70 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:15:37 | 40.03 | 36.03 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:15:37 | 40.35 | 36.35 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:38 | 40.68 | 36.68 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:15:38 | 41.01 | 37.01 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:15:38 | 41.34 | 37.34 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:39 | 41.67 | 37.67 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:39 | 41.99 | 37.99 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:39 | 42.32 | 38.32 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:39 | 42.65 | 38.65 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:15:40 | 42.98 | 38.98 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:41 | 43.31 | 39.31 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:41 | 43.64 | 39.64 | 1,180 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:15:41 | 43.96 | 39.96 | 1,180 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:15:41 | 44.29 | 40.29 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:15:42 | 44.62 | 40.62 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 15:15:42 | 44.95 | 40.95 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 15:15:42 | 45.28 | 41.28 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:43 | 45.60 | 41.60 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:15:57 | 45.93 | 41.93 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 15:15:59 | 46.26 | 42.26 | 131 | 1.14 | 0.29 | 7.2 |
| 5/3/2015 15:15:59 | 46.59 | 42.59 | 240 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 15:16:00 | 46.92 | 42.92 | 366 | 1.14 | 0.29 | 20.0 |
| 5/3/2015 15:16:00 | 47.24 | 43.24 | 484 | 1.14 | 0.29 | 26.5 |
| 5/3/2015 15:16:01 | 47.57 | 43.57 | 590 | 1.14 | 0.29 | 32.3 |
| 5/3/2015 15:16:01 | 47.90 | 43.90 | 684 | 1.14 | 0.29 | 37.4 |
| 5/3/2015 15:16:02 | 48.23 | 44.23 | 707 | 1.14 | 0.29 | 38.6 |
| 5/3/2015 15:16:03 | 48.56 | 44.56 | 680 | 1.14 | 0.29 | 37.2 |
| 5/3/2015 15:16:56 | 48.88 | 44.88 | 99 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 15:17:26 | 49.21 | 45.21 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 15:17:29 | 49.54 | 45.54 | 134 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 15:17:34 | 49.87 | 45.87 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 15:17:42 | 50.20 | 46.20 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 15:17:49 | 50.53 | 46.53 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 15:18:32 | 50.85 | 46.85 | 54 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 15:18:36 | 51.18 | 47.18 | 103 | 1.14 | 0.29 | 5.7 |
| 5/3/2015 15:18:39 | 51.51 | 47.51 | 117 | 1.14 | 0.29 | 6.4 |
| 5/3/2015 15:18:47 | 51.84 | 47.84 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 15:18:50 | 52.17 | 48.17 | 181 | 1.14 | 0.29 | 9.9 |
| 5/3/2015 15:18:51 | 52.49 | 48.49 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 15:18:52 | 52.82 | 48.82 | 256 | 1.14 | 0.29 | 14.0 |
| 5/3/2015 15:18:53 | 53.15 | 49.15 | 352 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 15:18:54 | 53.48 | 49.48 | 396 | 1.14 | 0.29 | 21.6 |
| 5/3/2015 15:19:39 | 53.81 | 49.81 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:19:41 | 54.13 | 50.13 | 162 | 1.14 | 0.29 | 8.8 |
| 5/3/2015 | 15:19:50 | 54.46 | 50.46 | 70 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 | 15:19:56 | 54.79 | 50.79 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 | 15:20:02 | 55.12 | 51.12 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 | 15:20:09 | 55.45 | 51.45 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 | 15:20:17 | 55.77 | 51.77 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 | 15:20:24 | 56.10 | 52.10 | 61 | 1.14 | 0.29 | 3.3 |

## P18 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:14:07

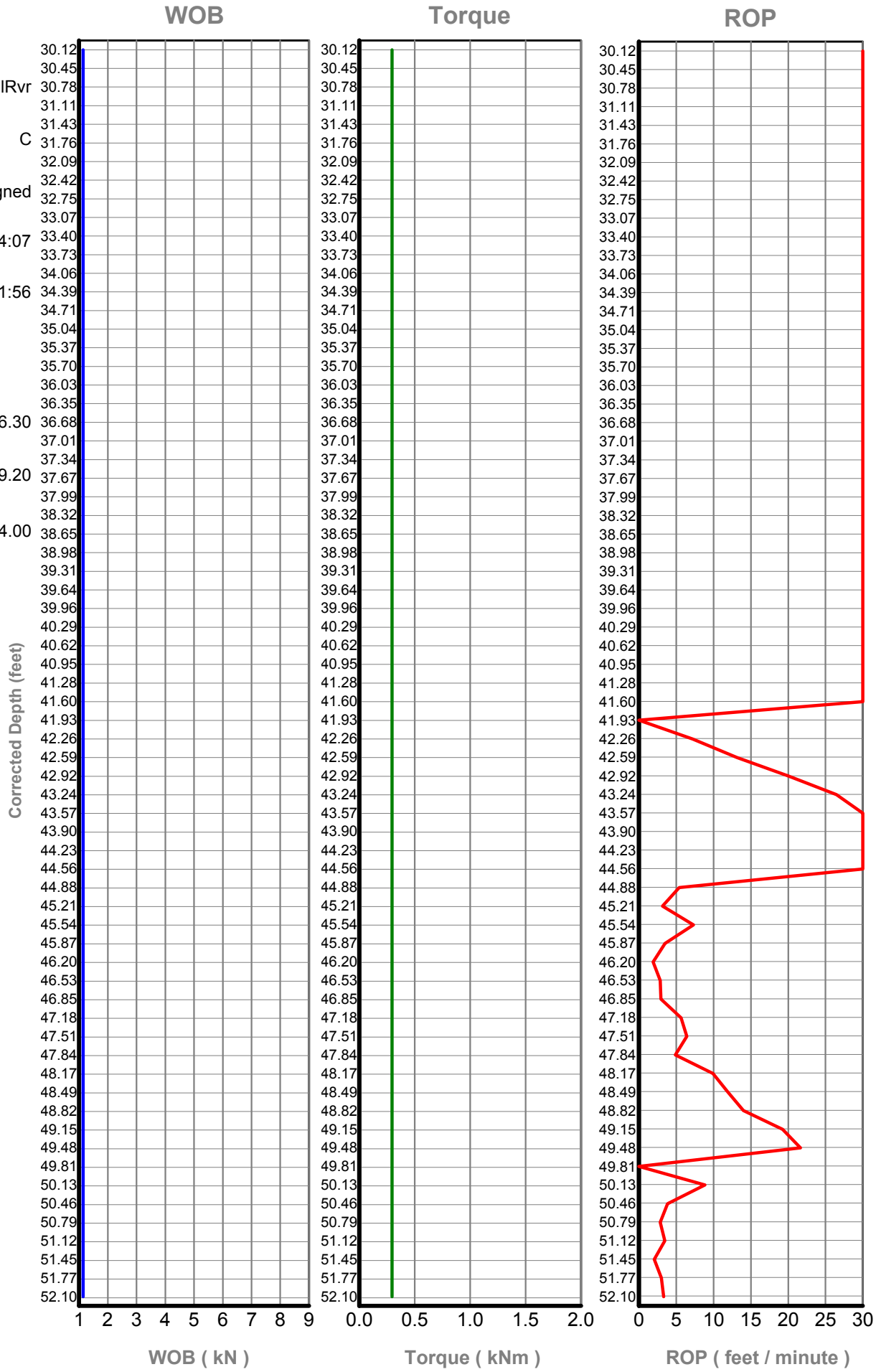
**End Date:**
5/3/2015 15:21:56

**Operator Note:**
'4 Auto Complete'

**Northing:**
349,276.30

**Easting:**
224,509.20

**Tide (feet):**
4.00



## Hole: P180 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:02:45 | 35.43 | 30.13 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:02:46 | 35.76 | 30.46 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:02:46 | 36.09 | 30.79 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:02:46 | 36.42 | 31.12 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:02:47 | 36.75 | 31.45 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:02:47 | 37.07 | 31.77 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:02:47 | 37.40 | 32.10 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:02:47 | 37.73 | 32.43 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 11:02:48 | 38.06 | 32.76 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:02:48 | 38.39 | 33.09 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:02:48 | 38.71 | 33.41 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:02:49 | 39.04 | 33.74 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:02:49 | 39.37 | 34.07 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:02:49 | 39.70 | 34.40 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:02:50 | 40.03 | 34.73 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:02:50 | 40.35 | 35.05 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:02:50 | 40.68 | 35.38 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:02:51 | 41.01 | 35.71 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:02:51 | 41.34 | 36.04 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:02:51 | 41.67 | 36.37 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:02:51 | 41.99 | 36.69 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:02:52 | 42.32 | 37.02 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:02:52 | 42.65 | 37.35 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:02:52 | 42.98 | 37.68 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:02:53 | 43.31 | 38.01 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:02:53 | 43.64 | 38.34 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:02:53 | 43.96 | 38.66 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:02:54 | 44.29 | 38.99 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:02:54 | 44.62 | 39.32 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:02:54 | 44.95 | 39.65 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:02:54 | 45.28 | 39.98 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:02:55 | 45.60 | 40.30 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:02:55 | 45.93 | 40.63 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:02:55 | 46.26 | 40.96 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:02:56 | 46.59 | 41.29 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:02:56 | 46.92 | 41.62 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:02:57 | 47.24 | 41.94 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:02:57 | 47.57 | 42.27 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:02:57 | 47.90 | 42.60 | 1,118 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 11:03:12 | 48.23 | 42.93 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 11:03:13 | 48.56 | 43.26 | 136 | 1.14 | 0.29 | 7.4 |
| 5/3/2015 11:03:13 | 48.88 | 43.58 | 257 | 1.14 | 0.29 | 14.0 |
| 5/3/2015 11:03:14 | 49.21 | 43.91 | 383 | 1.14 | 0.29 | 20.9 |
| 5/3/2015 11:03:14 | 49.54 | 44.24 | 503 | 1.14 | 0.29 | 27.5 |
| 5/3/2015 11:03:15 | 49.87 | 44.57 | 576 | 1.14 | 0.29 | 31.5 |
| 5/3/2015 11:03:15 | 50.20 | 44.90 | 611 | 1.14 | 0.29 | 33.4 |
| 5/3/2015 11:03:16 | 50.53 | 45.23 | 616 | 1.14 | 0.29 | 33.7 |
| 5/3/2015 11:03:53 | 50.85 | 45.55 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 11:03:54 | 51.18 | 45.88 | 175 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 11:03:56 | 51.51 | 46.21 | 326 | 1.14 | 0.29 | 17.8 |
| 5/3/2015 11:03:56 | 51.84 | 46.54 | 371 | 1.14 | 0.29 | 20.3 |
| 5/3/2015 11:04:24 | 52.17 | 46.87 | 37 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 11:04:25 | 52.49 | 47.19 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 11:04:28 | 52.82 | 47.52 | 117 | 1.14 | 0.29 | 6.4 |
| 5/3/2015 11:04:32 | 53.15 | 47.85 | 87 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 11:04:35 | 53.48 | 48.18 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 11:04:38 | 53.81 | 48.51 | 119 | 1.14 | 0.29 | 6.5 |
| 5/3/2015 11:04:39 | 54.13 | 48.83 | 198 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 11:04:45 | 54.46 | 49.16 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 11:04:50 | 54.79 | 49.49 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 11:04:57 | 55.12 | 49.82 | 35 | 1.14 | 0.29 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 11:05:09 | 55.45 | 50.15 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 11:05:12 | 55.53 | 50.23 | 32 | 1.14 | 0.29 | 1.7 |

## P180 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:01:42

**End Date:**
5/3/2015 11:06:49

**Operator Note:**
'5.3 5.0 c Auto Complete'

**Northing:**
349,025.60

**Easting:**
224,946.90

**Tide (feet):**
5.30



## Hole: P181 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:01:28 | 36.42 | 30.32 | 1,316 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 2:01:29 | 36.75 | 30.65 | 1,316 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 2:01:29 | 37.07 | 30.97 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:01:29 | 37.40 | 31.30 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 2:01:29 | 37.73 | 31.63 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 2:01:30 | 38.06 | 31.96 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 2:01:30 | 38.39 | 32.29 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/3/2015 2:01:30 | 38.71 | 32.61 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/3/2015 2:01:30 | 39.04 | 32.94 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 2:01:31 | 39.37 | 33.27 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/3/2015 2:01:31 | 39.70 | 33.60 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/3/2015 2:01:31 | 40.03 | 33.93 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 2:01:32 | 40.35 | 34.25 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 2:01:32 | 40.68 | 34.58 | 1,323 | 0.54 | 0.17 | 72.3 |
| 5/3/2015 2:01:32 | 41.01 | 34.91 | 1,323 | 0.54 | 0.17 | 72.3 |
| 5/3/2015 2:01:32 | 41.34 | 35.24 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/3/2015 2:01:33 | 41.67 | 35.57 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/3/2015 2:01:33 | 41.99 | 35.89 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/3/2015 2:01:33 | 42.32 | 36.22 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/3/2015 2:01:33 | 42.65 | 36.55 | 1,317 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 2:01:34 | 42.98 | 36.88 | 1,317 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 2:01:42 | 43.31 | 37.21 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:01:42 | 43.64 | 37.54 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:01:43 | 43.96 | 37.86 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:01:43 | 44.29 | 38.19 | 212 | 0.54 | 0.17 | 11.6 |
| 5/3/2015 2:01:43 | 44.62 | 38.52 | 212 | 0.54 | 0.17 | 11.6 |
| 5/3/2015 2:01:43 | 44.95 | 38.85 | 462 | 0.54 | 0.17 | 25.3 |
| 5/3/2015 2:01:44 | 45.28 | 39.18 | 698 | 0.54 | 0.17 | 38.2 |
| 5/3/2015 2:01:44 | 45.60 | 39.50 | 698 | 0.54 | 0.17 | 38.2 |
| 5/3/2015 2:01:44 | 45.93 | 39.83 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 2:01:45 | 46.26 | 40.16 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 2:01:45 | 46.59 | 40.49 | 1,170 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 2:01:45 | 46.92 | 40.82 | 1,206 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 2:01:46 | 47.24 | 41.14 | 1,206 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 2:01:46 | 47.57 | 41.47 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 2:01:47 | 47.90 | 41.80 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 2:01:46 | 48.23 | 42.13 | 1,207 | 0.54 | 0.17 | 66.0 |
| 5/3/2015 2:01:47 | 48.56 | 42.46 | 1,207 | 0.54 | 0.17 | 66.0 |
| 5/3/2015 2:01:47 | 48.88 | 42.78 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 2:01:47 | 49.21 | 43.11 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 2:01:48 | 49.54 | 43.44 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 2:01:48 | 49.87 | 43.77 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 2:01:48 | 50.20 | 44.10 | 1,249 | 0.54 | 0.17 | 68.3 |
| 5/3/2015 2:01:49 | 50.53 | 44.43 | 1,249 | 0.54 | 0.17 | 68.3 |
| 5/3/2015 2:01:50 | 50.85 | 44.75 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 2:01:59 | 51.18 | 45.08 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 2:02:00 | 51.51 | 45.41 | 109 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 2:02:00 | 51.84 | 45.74 | 272 | 0.54 | 0.17 | 14.9 |
| 5/3/2015 2:02:01 | 52.17 | 46.07 | 383 | 0.54 | 0.17 | 21.0 |
| 5/3/2015 2:02:01 | 52.49 | 46.39 | 495 | 0.54 | 0.17 | 27.1 |
| 5/3/2015 2:02:02 | 52.82 | 46.72 | 666 | 0.54 | 0.17 | 36.4 |
| 5/3/2015 2:02:03 | 53.15 | 47.05 | 555 | 0.54 | 0.17 | 30.4 |
| 5/3/2015 2:02:04 | 53.48 | 47.38 | 451 | 0.54 | 0.17 | 24.7 |
| 5/3/2015 2:02:05 | 53.81 | 47.71 | 273 | 0.54 | 0.17 | 14.9 |
| 5/3/2015 2:02:08 | 54.13 | 48.03 | 168 | 0.54 | 0.17 | 9.2 |
| 5/3/2015 2:02:22 | 54.46 | 48.36 | 19 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 2:02:37 | 54.79 | 48.69 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 2:02:54 | 55.12 | 49.02 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 2:03:11 | 55.45 | 49.35 | 20 | 0.54 | 0.17 | 1.1 |

## P181 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:53:56

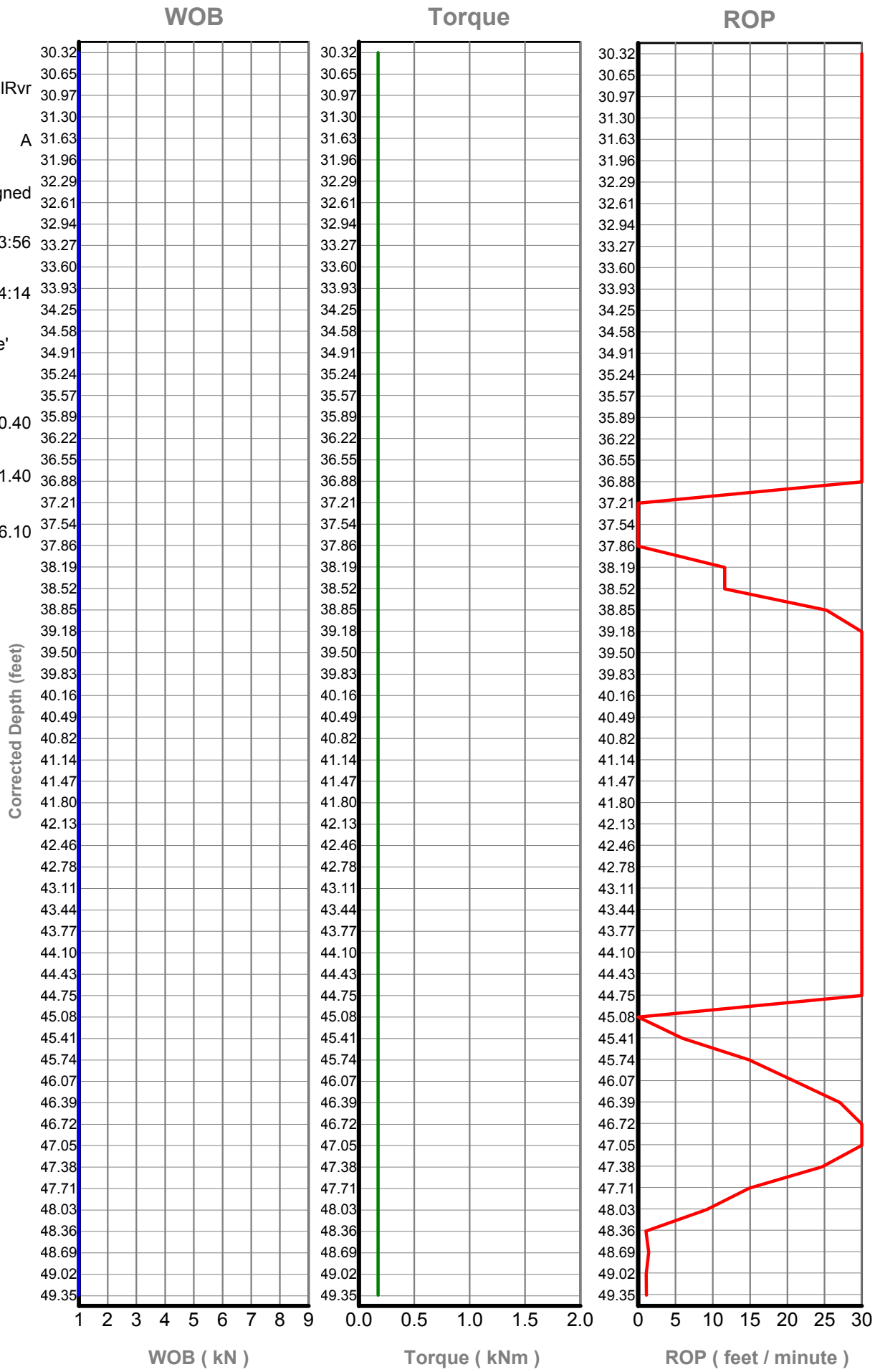
**End Date:**
5/3/2015 2:04:14

**Operator Note:**
'6.1 6.2 a Auto Complete'

**Northing:**
349,060.40

**Easting:**
225,001.40

**Tide (feet):**
6.10



## Hole: P182 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:02:53 | 36.09 | 30.09 | 1,281 | 0.31 | 0.39 | 70.0 |
| 5/3/2015 2:02:53 | 36.42 | 30.42 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 2:02:54 | 36.75 | 30.75 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/3/2015 2:02:54 | 37.07 | 31.07 | 1,286 | 0.31 | 0.39 | 70.3 |
| 5/3/2015 2:02:54 | 37.40 | 31.40 | 1,286 | 0.31 | 0.39 | 70.3 |
| 5/3/2015 2:02:54 | 37.73 | 31.73 | 1,278 | 0.30 | 0.39 | 69.9 |
| 5/3/2015 2:02:55 | 38.06 | 32.06 | 1,278 | 0.30 | 0.39 | 69.9 |
| 5/3/2015 2:02:55 | 38.39 | 32.39 | 1,281 | 0.30 | 0.41 | 70.0 |
| 5/3/2015 2:02:55 | 38.71 | 32.71 | 1,281 | 0.30 | 0.41 | 70.0 |
| 5/3/2015 2:02:55 | 39.04 | 33.04 | 1,284 | 0.31 | 0.40 | 70.2 |
| 5/3/2015 2:02:56 | 39.37 | 33.37 | 1,284 | 0.31 | 0.40 | 70.2 |
| 5/3/2015 2:02:56 | 39.70 | 33.70 | 1,289 | 0.31 | 0.40 | 70.5 |
| 5/3/2015 2:02:56 | 40.03 | 34.03 | 1,289 | 0.31 | 0.40 | 70.5 |
| 5/3/2015 2:02:56 | 40.35 | 34.35 | 1,255 | 0.30 | 0.39 | 68.6 |
| 5/3/2015 2:02:57 | 40.68 | 34.68 | 1,255 | 0.30 | 0.39 | 68.6 |
| 5/3/2015 2:02:57 | 41.01 | 35.01 | 1,255 | 0.28 | 0.40 | 68.6 |
| 5/3/2015 2:02:57 | 41.34 | 35.34 | 1,265 | 0.31 | 0.40 | 69.2 |
| 5/3/2015 2:02:58 | 41.67 | 35.67 | 1,265 | 0.31 | 0.40 | 69.2 |
| 5/3/2015 2:02:58 | 41.99 | 35.99 | 1,239 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 2:02:58 | 42.32 | 36.32 | 1,239 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 2:02:58 | 42.65 | 36.65 | 1,239 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 2:02:59 | 42.98 | 36.98 | 1,239 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 2:02:59 | 43.31 | 37.31 | 1,268 | 0.31 | 0.40 | 69.4 |
| 5/3/2015 2:02:59 | 43.64 | 37.64 | 1,268 | 0.31 | 0.40 | 69.4 |
| 5/3/2015 2:02:59 | 43.96 | 37.96 | 1,251 | 0.31 | 0.40 | 68.4 |
| 5/3/2015 2:03:00 | 44.29 | 38.29 | 1,251 | 0.31 | 0.40 | 68.4 |
| 5/3/2015 2:03:00 | 44.62 | 38.62 | 1,293 | 0.31 | 0.39 | 70.7 |
| 5/3/2015 2:03:00 | 44.95 | 38.95 | 1,293 | 0.31 | 0.39 | 70.7 |
| 5/3/2015 2:03:00 | 45.28 | 39.28 | 1,277 | 0.31 | 0.41 | 69.8 |
| 5/3/2015 2:03:01 | 45.60 | 39.60 | 1,277 | 0.31 | 0.41 | 69.8 |
| 5/3/2015 2:03:01 | 45.93 | 39.93 | 1,308 | 0.31 | 0.39 | 71.5 |
| 5/3/2015 2:03:01 | 46.26 | 40.26 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:02 | 46.59 | 40.59 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:02 | 46.92 | 40.92 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:03:02 | 47.24 | 41.24 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 2:03:03 | 47.57 | 41.57 | 1,283 | 0.31 | 0.40 | 70.2 |
| 5/3/2015 2:03:03 | 47.90 | 41.90 | 1,283 | 0.31 | 0.40 | 70.2 |
| 5/3/2015 2:03:03 | 48.23 | 42.23 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:04 | 48.56 | 42.56 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:04 | 48.88 | 42.88 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:04 | 49.21 | 43.21 | 1,264 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 2:03:04 | 49.54 | 43.54 | 1,264 | 0.31 | 0.42 | 69.1 |
| 5/3/2015 2:03:05 | 49.87 | 43.87 | 1,264 | 0.31 | 0.42 | 69.1 |
| 5/3/2015 2:03:05 | 50.20 | 44.20 | 1,292 | 0.31 | 0.40 | 70.7 |
| 5/3/2015 2:03:05 | 50.53 | 44.53 | 1,258 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 2:03:06 | 50.85 | 44.85 | 1,258 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 2:03:06 | 51.18 | 45.18 | 1,251 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:03:06 | 51.51 | 45.51 | 1,251 | 0.31 | 0.39 | 68.4 |
| 5/3/2015 2:03:06 | 51.84 | 45.84 | 1,296 | 0.31 | 0.40 | 70.9 |
| 5/3/2015 2:03:07 | 52.17 | 46.17 | 1,296 | 0.31 | 0.40 | 70.9 |
| 5/3/2015 2:03:07 | 52.49 | 46.49 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/3/2015 2:03:07 | 52.82 | 46.82 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/3/2015 2:03:07 | 53.15 | 47.15 | 1,260 | 0.29 | 0.47 | 68.9 |
| 5/3/2015 2:03:14 | 53.48 | 47.48 | 97 | 3.18 | 0.44 | 5.3 |
| 5/3/2015 2:03:15 | 53.81 | 47.81 | 97 | 3.18 | 0.44 | 5.3 |
| 5/3/2015 2:03:15 | 54.13 | 48.13 | 354 | 2.93 | 0.49 | 19.4 |
| 5/3/2015 2:03:16 | 54.46 | 48.46 | 484 | 3.90 | 0.47 | 26.5 |
| 5/3/2015 2:03:17 | 54.79 | 48.79 | 384 | 3.93 | 0.47 | 21.0 |
| 5/3/2015 2:03:18 | 55.12 | 49.12 | 404 | 3.52 | 0.47 | 22.1 |
| 5/3/2015 2:03:19 | 55.45 | 49.45 | 353 | 2.88 | 0.49 | 19.3 |
| 5/3/2015 2:03:21 | 55.77 | 49.77 | 250 | 2.80 | 0.48 | 13.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:03:24 | 56.10 | 50.10 | 145 | 2.92 | 0.49 | 7.9 |
| 5/3/2015 | 2:03:30 | 56.43 | 50.43 | 0 | 3.43 | 0.47 | 0.0 |
| 5/3/2015 | 2:03:31 | 56.76 | 50.76 | 128 | 3.77 | 0.47 | 7.0 |
| 5/3/2015 | 2:03:34 | 57.09 | 51.09 | 131 | 4.93 | 0.40 | 7.2 |
| 5/3/2015 | 2:03:37 | 57.41 | 51.41 | 144 | 4.49 | 0.48 | 7.9 |
| 5/3/2015 | 2:03:39 | 57.74 | 51.74 | 168 | 3.67 | 0.48 | 9.2 |
| 5/3/2015 | 2:03:40 | 58.07 | 52.07 | 231 | 2.42 | 0.44 | 12.6 |
| 5/3/2015 | 2:03:41 | 58.40 | 52.40 | 312 | 2.94 | 0.48 | 17.0 |
| 5/3/2015 | 2:03:46 | 58.73 | 52.73 | 34 | 3.03 | 0.49 | 1.9 |
| 5/3/2015 | 2:04:02 | 59.06 | 53.06 | 30 | 3.24 | 0.49 | 1.7 |
| 5/3/2015 | 2:04:05 | 59.38 | 53.38 | 129 | 3.83 | 0.49 | 7.1 |
| 5/3/2015 | 2:04:19 | 59.71 | 53.71 | 0 | 4.09 | 0.49 | 0.0 |
| 5/3/2015 | 2:04:49 | 60.04 | 54.04 | 6 | 4.30 | 0.49 | 0.3 |
| 5/3/2015 | 2:04:55 | 60.37 | 54.37 | 30 | 3.72 | 0.48 | 1.6 |
| 5/3/2015 | 2:05:32 | 60.70 | 54.70 | 14 | 4.76 | 0.49 | 0.8 |
| 5/3/2015 | 2:05:58 | 61.02 | 55.02 | 11 | 3.94 | 0.49 | 0.6 |
| 5/3/2015 | 2:06:00 | 61.18 | 55.18 | 61 | 4.02 | 0.49 | 3.3 |

## P182 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:01:18

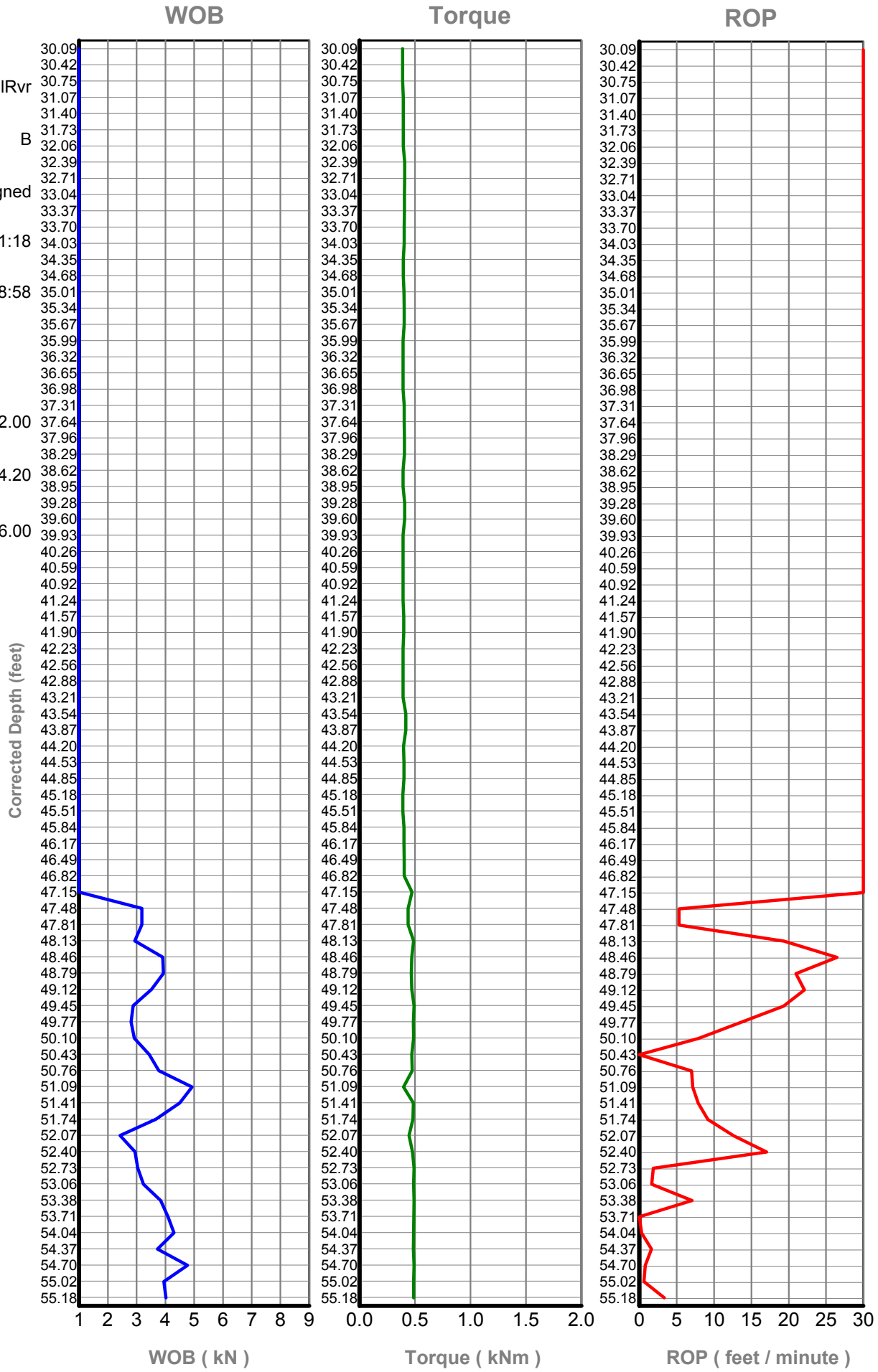
**End Date:**
5/3/2015 2:08:58

**Operator Note:**
'6 6.2b Auto Complete'

**Northing:**
349,102.00

**Easting:**
225,064.20

**Tide (feet):**
6.00



## Hole: P183 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 2:00:41 | 36.09 | 30.09 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:00:41 | 36.42 | 30.42 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 2:00:41 | 36.75 | 30.75 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:00:42 | 37.07 | 31.07 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:00:42 | 37.40 | 31.40 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:00:42 | 37.73 | 31.73 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:43 | 38.06 | 32.06 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:43 | 38.39 | 32.39 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:00:44 | 38.71 | 32.71 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:44 | 39.04 | 33.04 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:44 | 39.37 | 33.37 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:00:44 | 39.70 | 33.70 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:00:45 | 40.03 | 34.03 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 2:00:45 | 40.35 | 34.35 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:46 | 40.68 | 34.68 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:46 | 41.01 | 35.01 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:46 | 41.34 | 35.34 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:47 | 41.67 | 35.67 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:47 | 41.99 | 35.99 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 2:00:47 | 42.32 | 36.32 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:00:48 | 42.65 | 36.65 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 2:00:48 | 42.98 | 36.98 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 2:00:48 | 43.31 | 37.31 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 2:00:49 | 43.64 | 37.64 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 2:00:49 | 43.96 | 37.96 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:00:49 | 44.29 | 38.29 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:00:50 | 44.62 | 38.62 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 2:00:50 | 44.95 | 38.95 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:00:50 | 45.28 | 39.28 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:51 | 45.60 | 39.60 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:51 | 45.93 | 39.93 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 2:00:51 | 46.26 | 40.26 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:52 | 46.59 | 40.59 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:52 | 46.92 | 40.92 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:52 | 47.24 | 41.24 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 2:00:53 | 47.57 | 41.57 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 2:00:53 | 47.90 | 41.90 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:00:53 | 48.23 | 42.23 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:54 | 48.56 | 42.56 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:54 | 48.88 | 42.88 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 2:00:54 | 49.21 | 43.21 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:55 | 49.54 | 43.54 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:55 | 49.87 | 43.87 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 2:00:56 | 50.20 | 44.20 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:56 | 50.53 | 44.53 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:56 | 50.85 | 44.85 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 2:00:57 | 51.18 | 45.18 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 2:00:57 | 51.51 | 45.51 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 2:00:57 | 51.84 | 45.84 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 2:01:12 | 52.17 | 46.17 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 2:01:13 | 52.49 | 46.49 | 168 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 2:01:13 | 52.82 | 46.82 | 280 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 2:01:14 | 53.15 | 47.15 | 451 | 1.14 | 0.29 | 24.6 |
| 5/3/2015 2:01:15 | 53.48 | 47.48 | 453 | 1.14 | 0.29 | 24.8 |
| 5/3/2015 2:01:16 | 53.81 | 47.81 | 436 | 1.14 | 0.29 | 23.8 |
| 5/3/2015 2:01:16 | 54.13 | 48.13 | 465 | 1.14 | 0.29 | 25.4 |
| 5/3/2015 2:01:17 | 54.46 | 48.46 | 511 | 1.14 | 0.29 | 28.0 |
| 5/3/2015 2:01:17 | 54.79 | 48.79 | 554 | 1.14 | 0.29 | 30.3 |
| 5/3/2015 2:01:18 | 55.12 | 49.12 | 554 | 1.14 | 0.29 | 30.3 |
| 5/3/2015 2:01:36 | 55.45 | 49.45 | 47 | 1.14 | 0.29 | 2.6 |
| 5/3/2015 2:01:37 | 55.77 | 49.77 | 128 | 1.14 | 0.29 | 7.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 2:01:38 | 56.10 | 50.10 | 239 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 | 2:01:42 | 56.43 | 50.43 | 52 | 1.14 | 0.29 | 2.8 |
| 5/3/2015 | 2:01:43 | 56.76 | 50.76 | 160 | 1.14 | 0.29 | 8.8 |
| 5/3/2015 | 2:01:43 | 57.09 | 51.09 | 160 | 1.14 | 0.29 | 8.8 |
| 5/3/2015 | 2:01:47 | 57.41 | 51.41 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 | 2:01:56 | 57.74 | 51.74 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 2:02:06 | 58.07 | 52.07 | 33 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 | 2:02:18 | 58.40 | 52.40 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 | 2:02:21 | 58.51 | 52.51 | 35 | 1.14 | 0.29 | 1.9 |

## P183 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:59:36

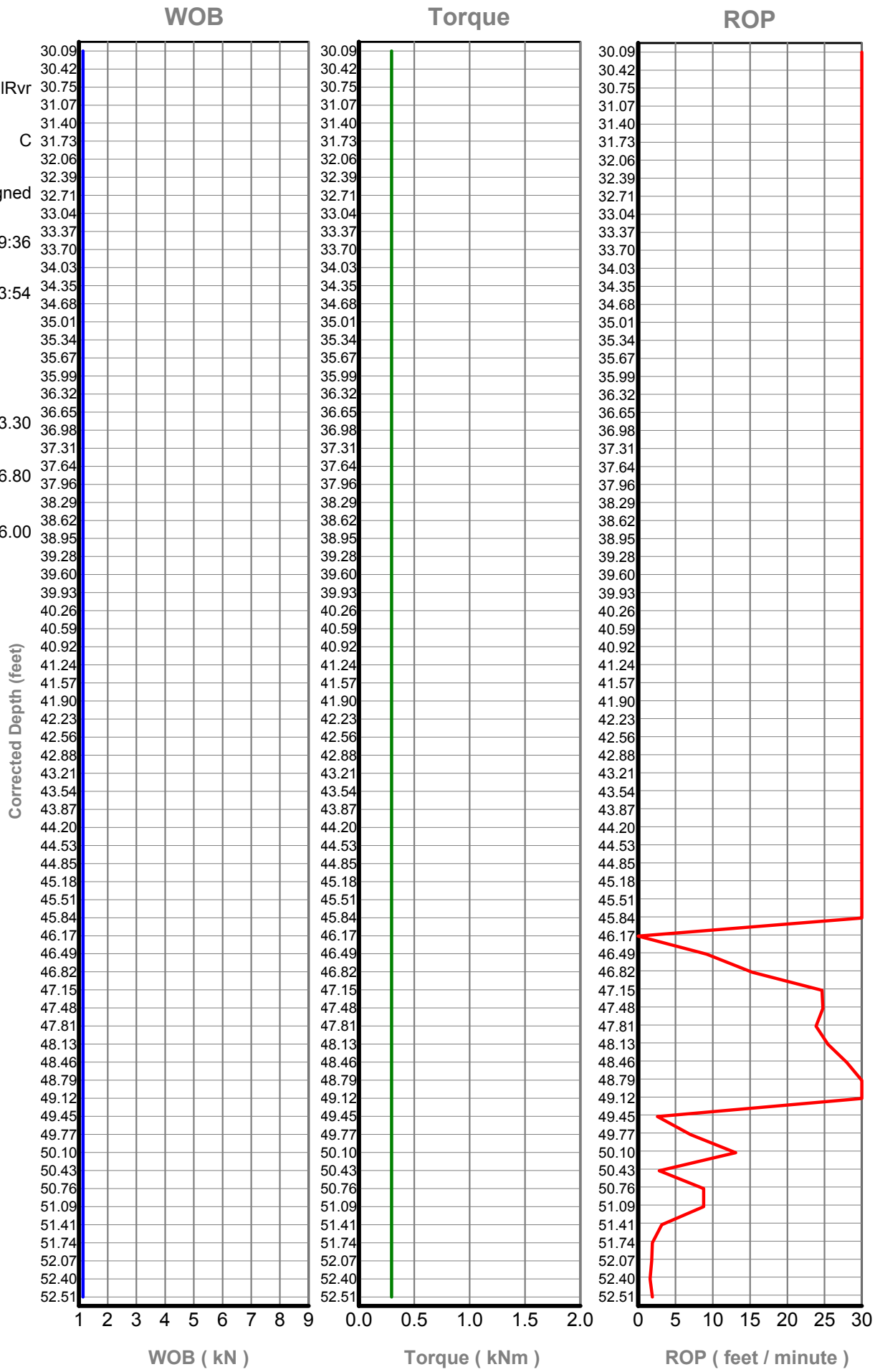
**End Date:**
5/3/2015 2:03:54

**Operator Note:**
'6 6.2 c Auto Complete'

**Northing:**
349,143.30

**Easting:**
225,126.80

**Tide (feet):**
6.00



## Hole: P184 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:58:12 | 36.75 | 30.25 | 884 | 0.54 | 0.17 | 48.3 |
| 5/2/2015 22:58:13 | 37.07 | 30.57 | 878 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 22:58:13 | 37.40 | 30.90 | 889 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 22:58:14 | 37.73 | 31.23 | 889 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 22:58:14 | 38.06 | 31.56 | 889 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 22:58:14 | 38.39 | 31.89 | 894 | 0.54 | 0.17 | 48.9 |
| 5/2/2015 22:58:15 | 38.71 | 32.21 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 22:58:15 | 39.04 | 32.54 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 22:58:16 | 39.37 | 32.87 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 22:58:16 | 39.70 | 33.20 | 921 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 22:58:16 | 40.03 | 33.53 | 921 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 22:58:16 | 40.35 | 33.85 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 22:58:17 | 40.68 | 34.18 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/2/2015 22:58:17 | 41.01 | 34.51 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/2/2015 22:58:17 | 41.34 | 34.84 | 1,081 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 22:58:18 | 41.67 | 35.17 | 1,081 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 22:58:18 | 41.99 | 35.49 | 1,130 | 0.54 | 0.17 | 61.8 |
| 5/2/2015 22:58:18 | 42.32 | 35.82 | 1,151 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 22:58:19 | 42.65 | 36.15 | 1,151 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 22:58:19 | 42.98 | 36.48 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 22:58:19 | 43.31 | 36.81 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 22:58:27 | 43.64 | 37.14 | 15 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 22:58:28 | 43.96 | 37.46 | 15 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 22:58:28 | 44.29 | 37.79 | 232 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 22:58:28 | 44.62 | 38.12 | 465 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 22:58:29 | 44.95 | 38.45 | 465 | 0.54 | 0.17 | 25.4 |
| 5/2/2015 22:58:29 | 45.28 | 38.78 | 693 | 0.54 | 0.17 | 37.9 |
| 5/2/2015 22:58:29 | 45.60 | 39.10 | 693 | 0.54 | 0.17 | 37.9 |
| 5/2/2015 22:58:29 | 45.93 | 39.43 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 22:58:30 | 46.26 | 39.76 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 22:58:30 | 46.59 | 40.09 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 22:58:30 | 46.92 | 40.42 | 1,141 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 22:58:31 | 47.24 | 40.74 | 1,096 | 0.54 | 0.17 | 59.9 |
| 5/2/2015 22:58:32 | 47.57 | 41.07 | 1,096 | 0.54 | 0.17 | 59.9 |
| 5/2/2015 22:58:31 | 47.90 | 41.40 | 1,071 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 22:58:32 | 48.23 | 41.73 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 22:58:33 | 48.56 | 42.06 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 22:58:33 | 48.88 | 42.38 | 1,039 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 22:58:33 | 49.21 | 42.71 | 1,039 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 22:58:33 | 49.54 | 43.04 | 1,032 | 0.54 | 0.17 | 56.5 |
| 5/2/2015 22:58:34 | 49.87 | 43.37 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:58:34 | 50.20 | 43.70 | 1,053 | 0.54 | 0.17 | 57.6 |
| 5/2/2015 22:58:34 | 50.53 | 44.03 | 1,065 | 0.54 | 0.17 | 58.3 |
| 5/2/2015 22:58:35 | 50.85 | 44.35 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:35 | 51.18 | 44.68 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:35 | 51.51 | 45.01 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:36 | 51.84 | 45.34 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:36 | 52.17 | 45.67 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:36 | 52.49 | 45.99 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:37 | 52.82 | 46.32 | 1,058 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:58:37 | 53.15 | 46.65 | 1,058 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 22:59:06 | 53.48 | 46.98 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:59:12 | 53.81 | 47.31 | 11 | 0.54 | 0.17 | 0.6 |
| 5/2/2015 22:59:18 | 54.13 | 47.63 | 6 | 0.54 | 0.17 | 0.3 |
| 5/2/2015 22:59:20 | 54.46 | 47.96 | 133 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 22:59:20 | 54.79 | 48.29 | 216 | 0.54 | 0.17 | 11.8 |
| 5/2/2015 22:59:21 | 55.12 | 48.62 | 380 | 0.54 | 0.17 | 20.8 |
| 5/2/2015 22:59:24 | 55.45 | 48.95 | 46 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 22:59:25 | 55.77 | 49.27 | 178 | 0.54 | 0.17 | 9.7 |
| 5/2/2015 22:59:25 | 56.10 | 49.60 | 318 | 0.54 | 0.17 | 17.4 |
| 5/2/2015 22:59:26 | 56.43 | 49.93 | 433 | 0.54 | 0.17 | 23.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 22:59:27 | 56.76 | 50.26 | 405 | 0.54 | 0.17 | 22.2 |
| 5/2/2015 22:59:29 | 57.09 | 50.59 | 201 | 0.54 | 0.17 | 11.0 |
| 5/2/2015 22:59:30 | 57.41 | 50.91 | 230 | 0.54 | 0.17 | 12.6 |
| 5/2/2015 22:59:32 | 57.74 | 51.24 | 227 | 0.54 | 0.17 | 12.4 |
| 5/2/2015 22:59:38 | 58.07 | 51.57 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 22:59:40 | 58.40 | 51.90 | 113 | 0.54 | 0.17 | 6.2 |
| 5/2/2015 22:59:41 | 58.73 | 52.23 | 206 | 0.54 | 0.17 | 11.3 |
| 5/2/2015 22:59:42 | 59.06 | 52.56 | 266 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 22:59:43 | 59.38 | 52.88 | 360 | 0.54 | 0.17 | 19.7 |
| 5/2/2015 22:59:43 | 59.71 | 53.21 | 506 | 0.54 | 0.17 | 27.7 |
| 5/2/2015 22:59:44 | 60.04 | 53.54 | 576 | 0.54 | 0.17 | 31.5 |
| 5/2/2015 22:59:45 | 60.37 | 53.87 | 639 | 0.54 | 0.17 | 34.9 |
| 5/2/2015 22:59:45 | 60.70 | 54.20 | 661 | 0.54 | 0.17 | 36.2 |
| 5/2/2015 22:59:46 | 61.02 | 54.52 | 616 | 0.54 | 0.17 | 33.7 |
| 5/2/2015 22:59:47 | 61.35 | 54.85 | 386 | 0.54 | 0.17 | 21.1 |
| 5/2/2015 22:59:48 | 61.51 | 55.01 | 306 | 0.54 | 0.17 | 16.7 |

## P184 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:48:10

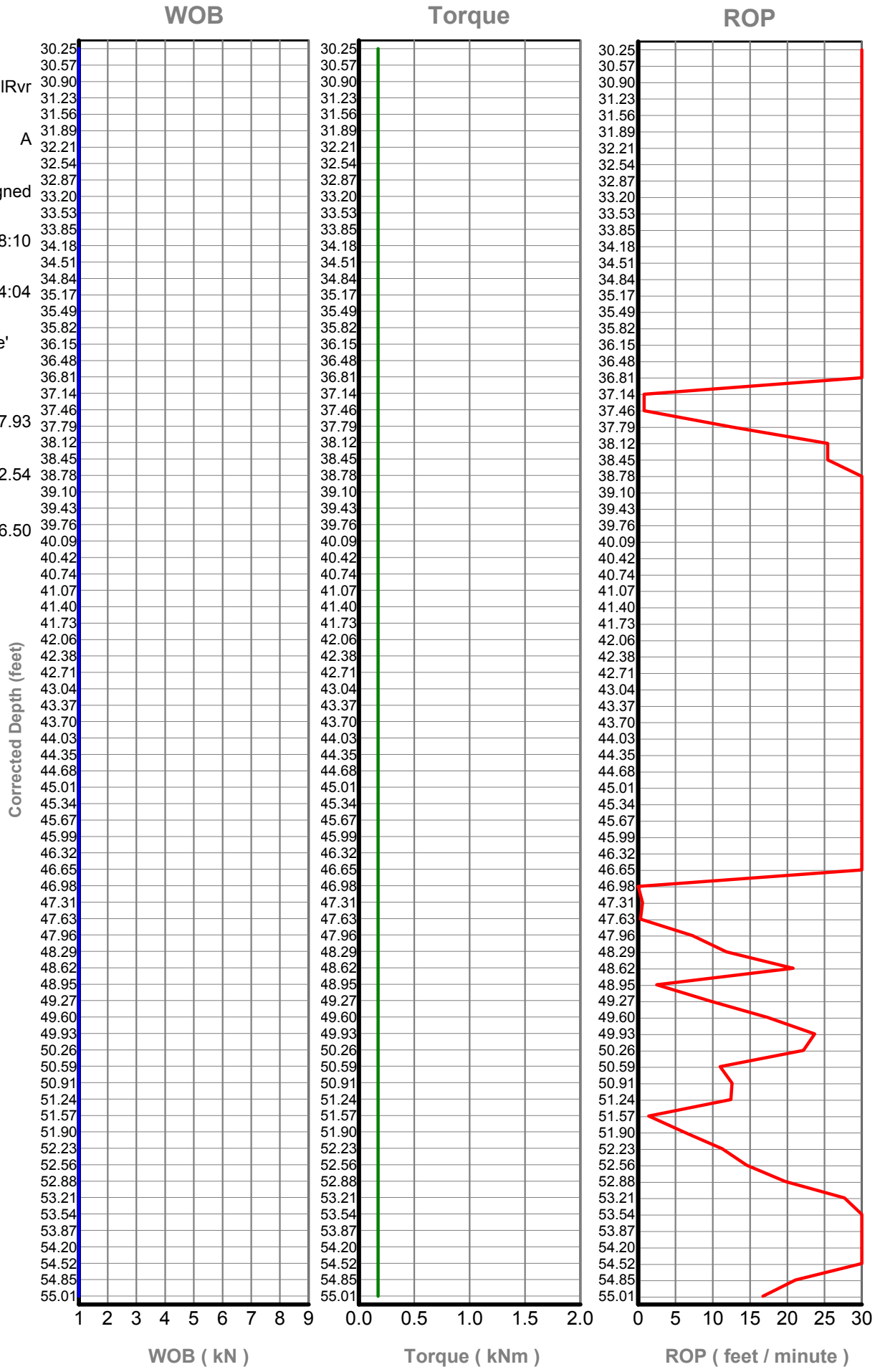
**End Date:**
5/2/2015 23:04:04

**Operator Note:**
'6.5 6.5 a Auto Complete'

**Northing:**
349,187.93

**Easting:**
225,192.54

**Tide (feet):**
6.50



## Hole: P185 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:00:02 | 36.75 | 30.05 | 1,205 | 0.33 | 0.39 | 65.9 |
| 5/2/2015 23:00:03 | 37.07 | 30.37 | 1,205 | 0.33 | 0.39 | 65.9 |
| 5/2/2015 23:00:03 | 37.40 | 30.70 | 1,212 | 0.33 | 0.39 | 66.3 |
| 5/2/2015 23:00:03 | 37.73 | 31.03 | 1,186 | 0.32 | 0.39 | 64.9 |
| 5/2/2015 23:00:04 | 38.06 | 31.36 | 1,186 | 0.32 | 0.39 | 64.9 |
| 5/2/2015 23:00:04 | 38.39 | 31.69 | 1,222 | 0.33 | 0.40 | 66.8 |
| 5/2/2015 23:00:04 | 38.71 | 32.01 | 1,222 | 0.33 | 0.40 | 66.8 |
| 5/2/2015 23:00:04 | 39.04 | 32.34 | 1,222 | 0.33 | 0.39 | 66.8 |
| 5/2/2015 23:00:05 | 39.37 | 32.67 | 1,222 | 0.33 | 0.39 | 66.8 |
| 5/2/2015 23:00:05 | 39.70 | 33.00 | 1,199 | 0.33 | 0.39 | 65.6 |
| 5/2/2015 23:00:06 | 40.03 | 33.33 | 1,202 | 0.32 | 0.39 | 65.7 |
| 5/2/2015 23:00:06 | 40.35 | 33.65 | 1,202 | 0.32 | 0.39 | 65.7 |
| 5/2/2015 23:00:06 | 40.68 | 33.98 | 1,196 | 0.33 | 0.38 | 65.4 |
| 5/2/2015 23:00:07 | 41.01 | 34.31 | 1,196 | 0.33 | 0.38 | 65.4 |
| 5/2/2015 23:00:06 | 41.34 | 34.64 | 1,239 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 23:00:07 | 41.67 | 34.97 | 1,239 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 23:00:07 | 41.99 | 35.29 | 1,239 | 0.32 | 0.40 | 67.8 |
| 5/2/2015 23:00:08 | 42.32 | 35.62 | 1,239 | 0.32 | 0.40 | 67.8 |
| 5/2/2015 23:00:08 | 42.65 | 35.95 | 1,227 | 0.32 | 0.39 | 67.1 |
| 5/2/2015 23:00:08 | 42.98 | 36.28 | 1,228 | 0.31 | 0.39 | 67.1 |
| 5/2/2015 23:00:09 | 43.31 | 36.61 | 1,228 | 0.31 | 0.39 | 67.1 |
| 5/2/2015 23:00:09 | 43.64 | 36.94 | 1,228 | 0.32 | 0.39 | 67.1 |
| 5/2/2015 23:00:09 | 43.96 | 37.26 | 1,228 | 0.32 | 0.39 | 67.1 |
| 5/2/2015 23:00:09 | 44.29 | 37.59 | 1,246 | 0.32 | 0.40 | 68.1 |
| 5/2/2015 23:00:10 | 44.62 | 37.92 | 1,246 | 0.32 | 0.40 | 68.1 |
| 5/2/2015 23:00:10 | 44.95 | 38.25 | 1,246 | 0.32 | 0.39 | 68.1 |
| 5/2/2015 23:00:10 | 45.28 | 38.58 | 1,203 | 0.33 | 0.39 | 65.8 |
| 5/2/2015 23:00:11 | 45.60 | 38.90 | 1,203 | 0.33 | 0.39 | 65.8 |
| 5/2/2015 23:00:11 | 45.93 | 39.23 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/2/2015 23:00:11 | 46.26 | 39.56 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/2/2015 23:00:11 | 46.59 | 39.89 | 1,207 | 0.32 | 0.39 | 66.0 |
| 5/2/2015 23:00:12 | 46.92 | 40.22 | 1,207 | 0.32 | 0.39 | 66.0 |
| 5/2/2015 23:00:12 | 47.24 | 40.54 | 1,222 | 0.32 | 0.40 | 66.8 |
| 5/2/2015 23:00:12 | 47.57 | 40.87 | 1,222 | 0.32 | 0.40 | 66.8 |
| 5/2/2015 23:00:12 | 47.90 | 41.20 | 1,219 | 0.32 | 0.39 | 66.6 |
| 5/2/2015 23:00:13 | 48.23 | 41.53 | 1,212 | 0.32 | 0.40 | 66.3 |
| 5/2/2015 23:00:13 | 48.56 | 41.86 | 1,212 | 0.32 | 0.40 | 66.3 |
| 5/2/2015 23:00:13 | 48.88 | 42.18 | 1,214 | 0.32 | 0.41 | 66.4 |
| 5/2/2015 23:00:14 | 49.21 | 42.51 | 1,214 | 0.32 | 0.41 | 66.4 |
| 5/2/2015 23:00:14 | 49.54 | 42.84 | 1,214 | 0.32 | 0.39 | 66.4 |
| 5/2/2015 23:00:14 | 49.87 | 43.17 | 1,214 | 0.32 | 0.39 | 66.4 |
| 5/2/2015 23:00:14 | 50.20 | 43.50 | 1,214 | 0.32 | 0.39 | 66.4 |
| 5/2/2015 23:00:15 | 50.53 | 43.83 | 1,204 | 0.32 | 0.39 | 65.8 |
| 5/2/2015 23:00:15 | 50.85 | 44.15 | 1,204 | 0.32 | 0.39 | 65.8 |
| 5/2/2015 23:00:15 | 51.18 | 44.48 | 1,204 | 0.32 | 0.39 | 65.8 |
| 5/2/2015 23:00:16 | 51.51 | 44.81 | 1,204 | 0.32 | 0.39 | 65.8 |
| 5/2/2015 23:00:16 | 51.84 | 45.14 | 1,200 | 0.32 | 0.39 | 65.6 |
| 5/2/2015 23:00:16 | 52.17 | 45.47 | 1,200 | 0.32 | 0.39 | 65.6 |
| 5/2/2015 23:00:16 | 52.49 | 45.79 | 1,204 | 0.33 | 0.39 | 65.8 |
| 5/2/2015 23:00:17 | 52.82 | 46.12 | 1,227 | 0.32 | 0.39 | 67.1 |
| 5/2/2015 23:00:18 | 53.15 | 46.45 | 1,227 | 0.32 | 0.39 | 67.1 |
| 5/2/2015 23:00:18 | 53.48 | 46.78 | 1,220 | 0.33 | 0.39 | 66.7 |
| 5/2/2015 23:00:18 | 53.81 | 47.11 | 1,220 | 0.33 | 0.39 | 66.7 |
| 5/2/2015 23:00:18 | 54.13 | 47.43 | 1,219 | 0.32 | 0.39 | 66.7 |
| 5/2/2015 23:00:19 | 54.46 | 47.76 | 1,219 | 0.32 | 0.39 | 66.7 |
| 5/2/2015 23:00:19 | 54.79 | 48.09 | 1,202 | 0.31 | 0.41 | 65.8 |
| 5/2/2015 23:00:19 | 55.12 | 48.42 | 1,170 | 0.29 | 0.49 | 64.0 |
| 5/2/2015 23:00:32 | 55.45 | 48.75 | 9 | 3.28 | 0.45 | 0.5 |
| 5/2/2015 23:00:32 | 55.77 | 49.07 | 85 | 3.79 | 0.44 | 4.7 |
| 5/2/2015 23:00:33 | 56.10 | 49.40 | 85 | 3.04 | 0.44 | 4.7 |
| 5/2/2015 23:00:33 | 56.43 | 49.73 | 212 | 2.80 | 0.44 | 11.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:00:34 | 56.76 | 50.06 | 337 | 3.18 | 0.45 | 18.4 |
| 5/2/2015 | 23:00:35 | 57.09 | 50.39 | 526 | 2.93 | 0.46 | 28.8 |
| 5/2/2015 | 23:00:37 | 57.41 | 50.71 | 220 | 3.52 | 0.46 | 12.0 |
| 5/2/2015 | 23:00:38 | 57.74 | 51.04 | 219 | 3.13 | 0.44 | 12.0 |
| 5/2/2015 | 23:00:45 | 58.07 | 51.37 | 40 | 3.37 | 0.49 | 2.2 |
| 5/2/2015 | 23:00:53 | 58.40 | 51.70 | 47 | 3.05 | 0.49 | 2.6 |
| 5/2/2015 | 23:01:00 | 58.73 | 52.03 | 49 | 3.43 | 0.49 | 2.7 |
| 5/2/2015 | 23:01:07 | 59.06 | 52.36 | 37 | 3.41 | 0.51 | 2.0 |
| 5/2/2015 | 23:01:08 | 59.11 | 52.41 | 40 | 3.07 | 0.49 | 2.2 |

## P185 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:58:33

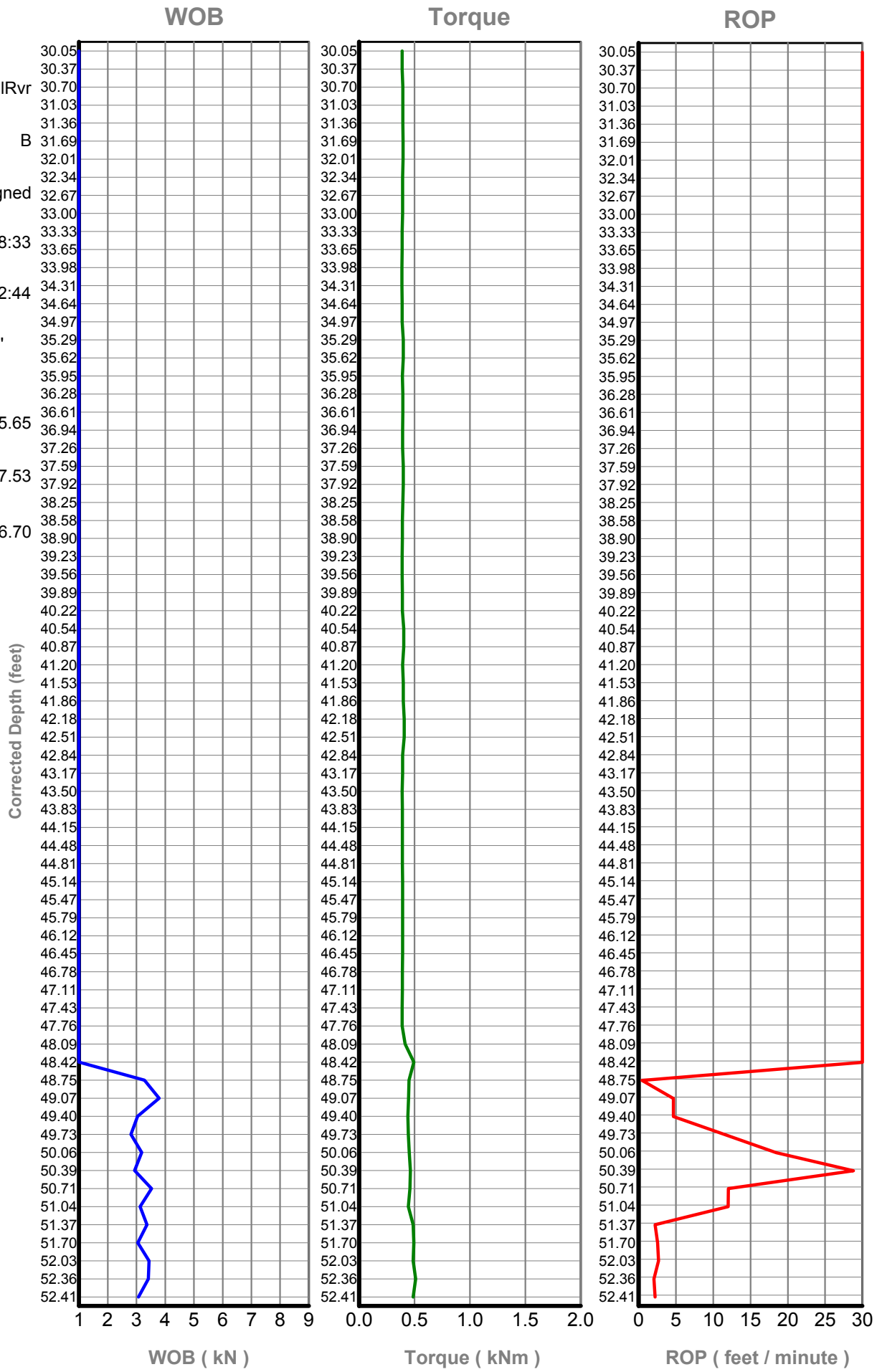
**End Date:**
5/2/2015 23:02:44

**Operator Note:**
'6.7 6.5b Auto Complete'

**Northing:**
349,225.65

**Easting:**
225,257.53

**Tide (feet):**
6.70



## Hole: P186 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:57:43 | 36.75 | 30.05 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:57:43 | 37.07 | 30.37 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:57:43 | 37.40 | 30.70 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 22:57:44 | 37.73 | 31.03 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 22:57:44 | 38.06 | 31.36 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 22:57:44 | 38.39 | 31.69 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:45 | 38.71 | 32.01 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:45 | 39.04 | 32.34 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:45 | 39.37 | 32.67 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:46 | 39.70 | 33.00 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:46 | 40.03 | 33.33 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:46 | 40.35 | 33.65 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:46 | 40.68 | 33.98 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:57:47 | 41.01 | 34.31 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:57:47 | 41.34 | 34.64 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:57:47 | 41.67 | 34.97 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 22:57:48 | 41.99 | 35.29 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:48 | 42.32 | 35.62 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:48 | 42.65 | 35.95 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 22:57:49 | 42.98 | 36.28 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:57:49 | 43.31 | 36.61 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 22:57:49 | 43.64 | 36.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:50 | 43.96 | 37.26 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:50 | 44.29 | 37.59 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:50 | 44.62 | 37.92 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:51 | 44.95 | 38.25 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:51 | 45.28 | 38.58 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:51 | 45.60 | 38.90 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:52 | 45.93 | 39.23 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:57:52 | 46.26 | 39.56 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 22:57:52 | 46.59 | 39.89 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:53 | 46.92 | 40.22 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:57:53 | 47.24 | 40.54 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 22:57:54 | 47.57 | 40.87 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:54 | 47.90 | 41.20 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:57:55 | 48.23 | 41.53 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 22:57:55 | 48.56 | 41.86 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 22:57:55 | 48.88 | 42.18 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:57:56 | 49.21 | 42.51 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 22:58:16 | 49.54 | 42.84 | 17 | 1.14 | 0.29 | 0.9 |
| 5/2/2015 22:58:23 | 49.87 | 43.17 | 41 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 22:58:32 | 50.20 | 43.50 | 41 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 22:58:58 | 50.53 | 43.83 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 22:59:07 | 50.85 | 44.15 | 38 | 1.14 | 0.29 | 2.1 |

## P186 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:56:42

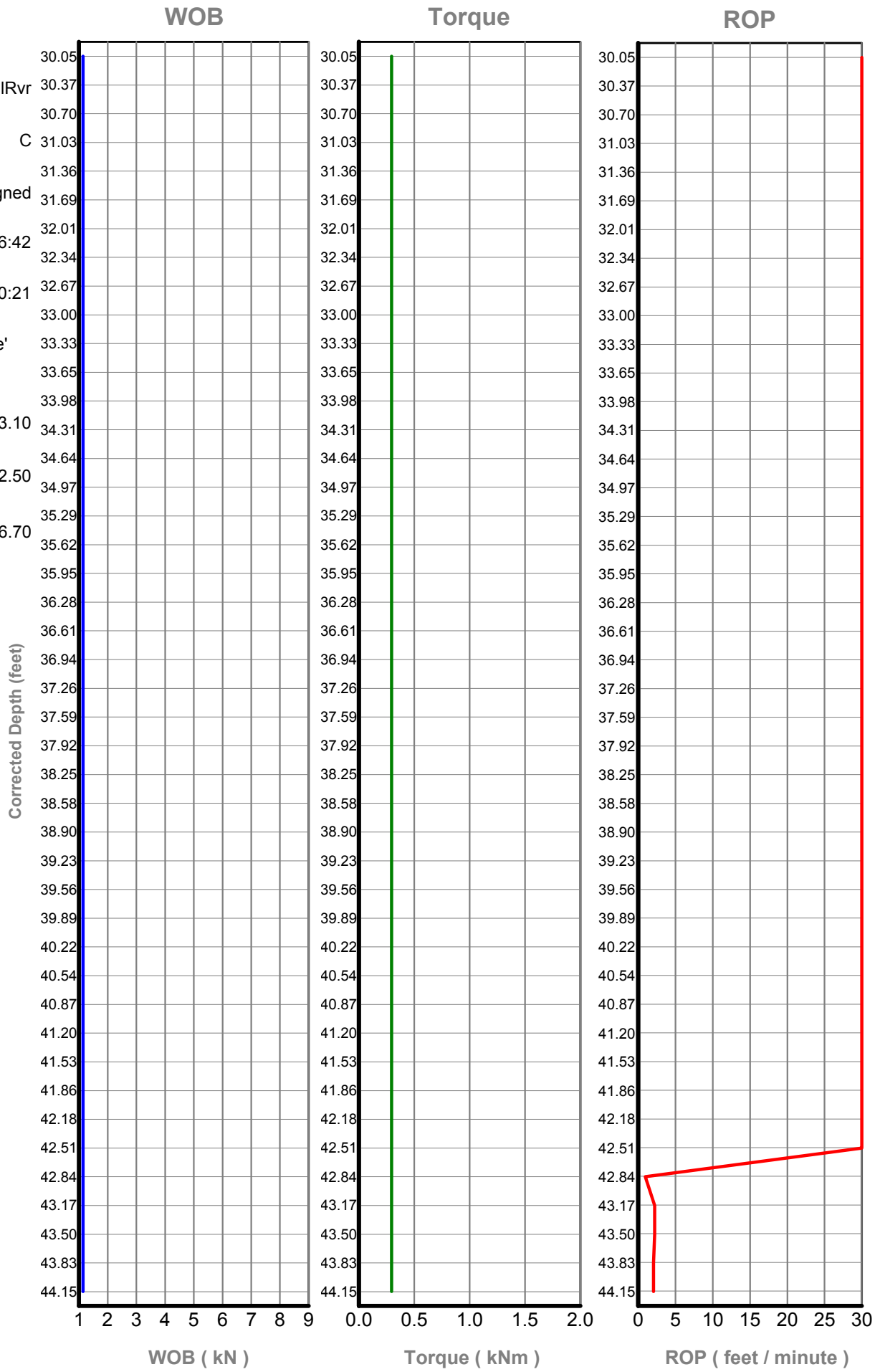
**End Date:**
5/2/2015 23:00:21

**Operator Note:**
'6.7 6.5 c Auto Complete'

**Northing:**
349,263.10

**Easting:**
225,322.50

**Tide (feet):**
6.70



## Hole: P187 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:26:16 | 33.46 | 30.26 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:16 | 33.79 | 30.59 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:17 | 34.12 | 30.92 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:17 | 34.45 | 31.25 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:17 | 34.78 | 31.58 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:18 | 35.11 | 31.91 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:18 | 35.43 | 32.23 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:18 | 35.76 | 32.56 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:19 | 36.09 | 32.89 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:19 | 36.42 | 33.22 | 1,136 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 20:26:19 | 36.75 | 33.55 | 1,136 | 0.54 | 0.17 | 62.1 |
| 5/2/2015 20:26:19 | 37.07 | 33.87 | 1,143 | 0.54 | 0.17 | 62.5 |
| 5/2/2015 20:26:20 | 37.40 | 34.20 | 1,133 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 20:26:20 | 37.73 | 34.53 | 1,133 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 20:26:20 | 38.06 | 34.86 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:21 | 38.39 | 35.19 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:21 | 38.71 | 35.51 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:21 | 39.04 | 35.84 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:22 | 39.37 | 36.17 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:22 | 39.70 | 36.50 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:22 | 40.03 | 36.83 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:22 | 40.35 | 37.15 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 20:26:23 | 40.68 | 37.48 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 20:26:23 | 41.01 | 37.81 | 1,158 | 0.54 | 0.17 | 63.3 |
| 5/2/2015 20:26:23 | 41.34 | 38.14 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:24 | 41.67 | 38.47 | 1,152 | 0.54 | 0.17 | 63.0 |
| 5/2/2015 20:26:24 | 41.99 | 38.79 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:25 | 42.32 | 39.12 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:25 | 42.65 | 39.45 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:25 | 42.98 | 39.78 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:26 | 43.31 | 40.11 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:26 | 43.64 | 40.44 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:26 | 43.96 | 40.76 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:27 | 44.29 | 41.09 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:27 | 44.62 | 41.42 | 1,156 | 0.54 | 0.17 | 63.2 |
| 5/2/2015 20:26:27 | 44.95 | 41.75 | 1,156 | 0.54 | 0.17 | 63.2 |
| 5/2/2015 20:26:27 | 45.28 | 42.08 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 20:26:28 | 45.60 | 42.40 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:28 | 45.93 | 42.73 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:28 | 46.26 | 43.06 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 20:26:29 | 46.59 | 43.39 | 1,142 | 0.54 | 0.17 | 62.4 |
| 5/2/2015 20:26:29 | 46.92 | 43.72 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:29 | 47.24 | 44.04 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:30 | 47.57 | 44.37 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:30 | 47.90 | 44.70 | 1,148 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:30 | 48.23 | 45.03 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:31 | 48.56 | 45.36 | 1,146 | 0.54 | 0.17 | 62.7 |
| 5/2/2015 20:26:31 | 48.88 | 45.68 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:31 | 49.21 | 46.01 | 1,145 | 0.54 | 0.17 | 62.6 |
| 5/2/2015 20:26:31 | 49.54 | 46.34 | 1,149 | 0.54 | 0.17 | 62.8 |
| 5/2/2015 20:26:32 | 49.87 | 46.67 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:32 | 50.20 | 47.00 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/2/2015 20:26:49 | 50.53 | 47.33 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 20:26:49 | 50.85 | 47.65 | 144 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 20:26:52 | 51.18 | 47.98 | 174 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 20:26:58 | 51.51 | 48.31 | 31 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 20:27:15 | 51.84 | 48.64 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 20:27:16 | 52.17 | 48.97 | 209 | 0.54 | 0.17 | 11.4 |
| 5/2/2015 20:31:29 | 52.49 | 49.29 | 17 | 0.54 | 0.17 | 0.9 |
| 5/2/2015 20:31:29 | 52.82 | 49.62 | 17 | 0.54 | 0.17 | 0.9 |
| 5/2/2015 20:31:30 | 53.15 | 49.95 | 287 | 0.54 | 0.17 | 15.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 20:31:30 | 53.48 | 50.28 | 390 | 0.54 | 0.17 | 21.3 |
| 5/2/2015 | 20:31:44 | 53.81 | 50.61 | 69 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 20:31:51 | 54.13 | 50.93 | 45 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 20:31:56 | 54.46 | 51.26 | 76 | 0.54 | 0.17 | 4.2 |
| 5/2/2015 | 20:31:58 | 54.79 | 51.59 | 148 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 | 20:34:19 | 55.12 | 51.92 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 | 20:34:27 | 55.45 | 52.25 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 20:34:35 | 55.77 | 52.57 | 42 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 | 20:34:44 | 56.10 | 52.90 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 20:34:50 | 56.43 | 53.23 | 70 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 | 20:34:54 | 56.76 | 53.56 | 84 | 0.54 | 0.17 | 4.6 |
| 5/2/2015 | 20:35:01 | 57.09 | 53.89 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 20:35:11 | 57.41 | 54.21 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 20:35:22 | 57.74 | 54.54 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 | 20:35:32 | 58.07 | 54.87 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 20:35:35 | 58.19 | 54.99 | 51 | 0.54 | 0.17 | 2.8 |

## P187 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:17:17

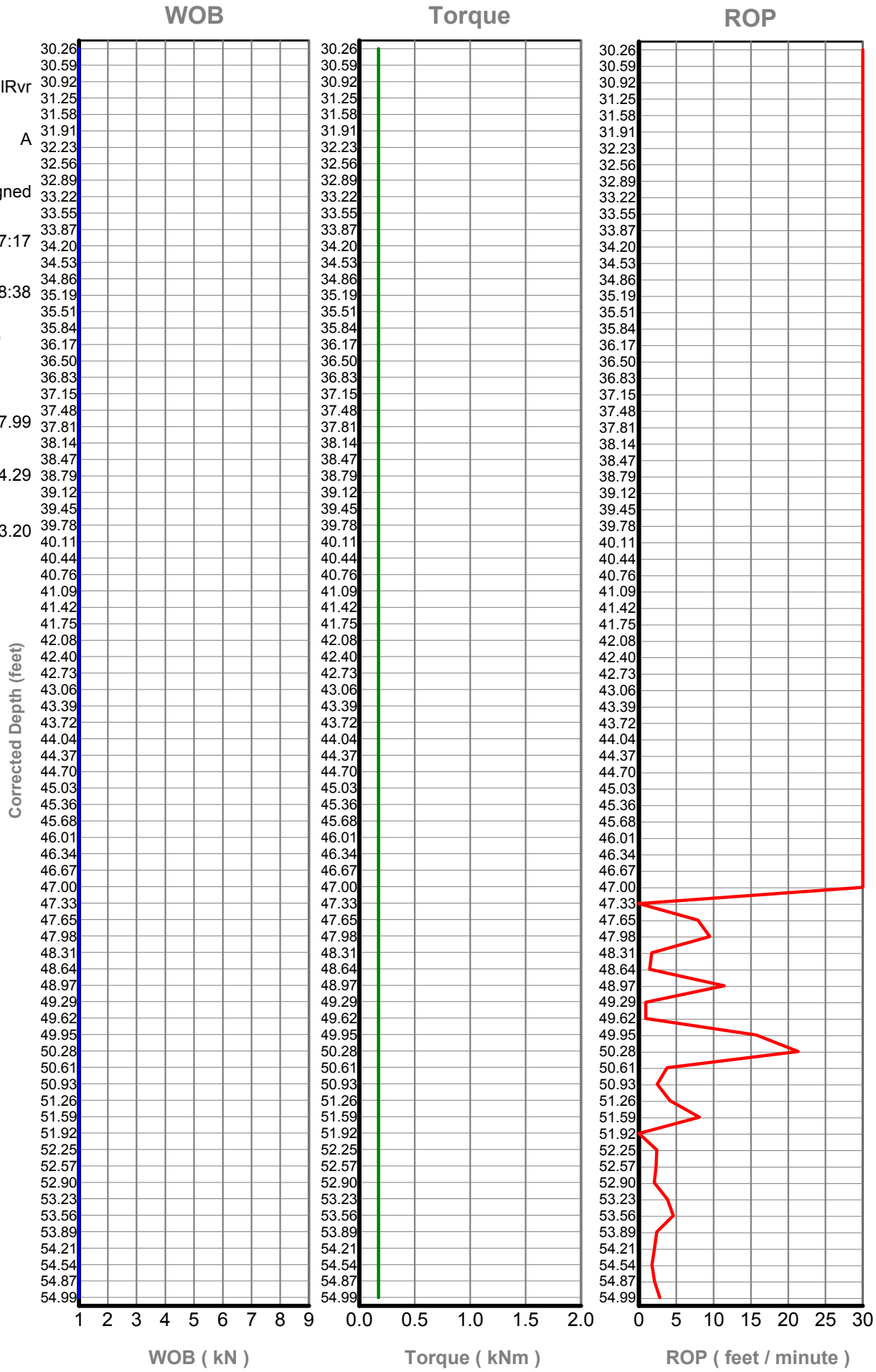
**End Date:**
5/2/2015 20:38:38

**Operator Note:**
'3.2 3. A Auto Complete'

**Northing:**
349,307.99

**Easting:**
225,384.29

**Tide (feet):**
3.20



## Hole: P188 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:26:08 | 33.46 | 30.26 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/2/2015 20:26:08 | 33.79 | 30.59 | 1,149 | 0.35 | 0.41 | 62.8 |
| 5/2/2015 20:26:09 | 34.12 | 30.92 | 1,149 | 0.35 | 0.41 | 62.8 |
| 5/2/2015 20:26:09 | 34.45 | 31.25 | 1,142 | 0.35 | 0.41 | 62.4 |
| 5/2/2015 20:26:09 | 34.78 | 31.58 | 1,142 | 0.36 | 0.40 | 62.4 |
| 5/2/2015 20:26:10 | 35.11 | 31.91 | 1,142 | 0.36 | 0.40 | 62.4 |
| 5/2/2015 20:26:10 | 35.43 | 32.23 | 1,148 | 0.35 | 0.41 | 62.8 |
| 5/2/2015 20:26:10 | 35.76 | 32.56 | 1,148 | 0.35 | 0.41 | 62.8 |
| 5/2/2015 20:26:10 | 36.09 | 32.89 | 1,142 | 0.35 | 0.41 | 62.4 |
| 5/2/2015 20:26:11 | 36.42 | 33.22 | 1,139 | 0.35 | 0.41 | 62.3 |
| 5/2/2015 20:26:11 | 36.75 | 33.55 | 1,139 | 0.35 | 0.41 | 62.3 |
| 5/2/2015 20:26:11 | 37.07 | 33.87 | 1,132 | 0.35 | 0.41 | 61.9 |
| 5/2/2015 20:26:12 | 37.40 | 34.20 | 1,132 | 0.35 | 0.41 | 61.9 |
| 5/2/2015 20:26:12 | 37.73 | 34.53 | 1,142 | 0.35 | 0.41 | 62.4 |
| 5/2/2015 20:26:13 | 38.06 | 34.86 | 1,135 | 0.35 | 0.41 | 62.1 |
| 5/2/2015 20:26:13 | 38.39 | 35.19 | 1,135 | 0.35 | 0.41 | 62.1 |
| 5/2/2015 20:26:13 | 38.71 | 35.51 | 1,142 | 0.35 | 0.41 | 62.4 |
| 5/2/2015 20:26:14 | 39.04 | 35.84 | 1,142 | 0.35 | 0.41 | 62.4 |
| 5/2/2015 20:26:14 | 39.37 | 36.17 | 1,142 | 0.35 | 0.40 | 62.4 |
| 5/2/2015 20:26:14 | 39.70 | 36.50 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/2/2015 20:26:15 | 40.03 | 36.83 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/2/2015 20:26:15 | 40.35 | 37.15 | 1,145 | 0.35 | 0.41 | 62.6 |
| 5/2/2015 20:26:15 | 40.68 | 37.48 | 1,145 | 0.35 | 0.41 | 62.6 |
| 5/2/2015 20:26:15 | 41.01 | 37.81 | 1,148 | 0.35 | 0.41 | 62.8 |
| 5/2/2015 20:26:16 | 41.34 | 38.14 | 1,133 | 0.35 | 0.41 | 61.9 |
| 5/2/2015 20:26:16 | 41.67 | 38.47 | 1,133 | 0.35 | 0.41 | 61.9 |
| 5/2/2015 20:26:16 | 41.99 | 38.79 | 1,145 | 0.35 | 0.41 | 62.6 |
| 5/2/2015 20:26:17 | 42.32 | 39.12 | 1,145 | 0.35 | 0.41 | 62.6 |
| 5/2/2015 20:26:17 | 42.65 | 39.45 | 1,137 | 0.35 | 0.40 | 62.1 |
| 5/2/2015 20:26:17 | 42.98 | 39.78 | 1,137 | 0.35 | 0.41 | 62.1 |
| 5/2/2015 20:26:18 | 43.31 | 40.11 | 1,137 | 0.35 | 0.41 | 62.1 |
| 5/2/2015 20:26:18 | 43.64 | 40.44 | 1,124 | 0.35 | 0.41 | 61.4 |
| 5/2/2015 20:26:18 | 43.96 | 40.76 | 1,124 | 0.35 | 0.41 | 61.4 |
| 5/2/2015 20:26:18 | 44.29 | 41.09 | 1,150 | 0.35 | 0.40 | 62.9 |
| 5/2/2015 20:26:19 | 44.62 | 41.42 | 1,137 | 0.35 | 0.40 | 62.2 |
| 5/2/2015 20:26:19 | 44.95 | 41.75 | 1,137 | 0.35 | 0.40 | 62.2 |
| 5/2/2015 20:26:19 | 45.28 | 42.08 | 1,147 | 0.35 | 0.40 | 62.7 |
| 5/2/2015 20:26:20 | 45.60 | 42.40 | 1,147 | 0.35 | 0.40 | 62.7 |
| 5/2/2015 20:26:20 | 45.93 | 42.73 | 1,137 | 0.35 | 0.40 | 62.2 |
| 5/2/2015 20:26:20 | 46.26 | 43.06 | 1,147 | 0.35 | 0.40 | 62.7 |
| 5/2/2015 20:26:21 | 46.59 | 43.39 | 1,147 | 0.35 | 0.40 | 62.7 |
| 5/2/2015 20:26:21 | 46.92 | 43.72 | 1,136 | 0.35 | 0.40 | 62.1 |
| 5/2/2015 20:26:21 | 47.24 | 44.04 | 1,136 | 0.35 | 0.40 | 62.1 |
| 5/2/2015 20:26:21 | 47.57 | 44.37 | 1,136 | 0.36 | 0.40 | 62.1 |
| 5/2/2015 20:26:22 | 47.90 | 44.70 | 1,127 | 0.35 | 0.41 | 61.6 |
| 5/2/2015 20:26:22 | 48.23 | 45.03 | 1,127 | 0.35 | 0.41 | 61.6 |
| 5/2/2015 20:26:23 | 48.56 | 45.36 | 1,139 | 0.35 | 0.41 | 62.3 |
| 5/2/2015 20:26:23 | 48.88 | 45.68 | 1,139 | 0.35 | 0.41 | 62.3 |
| 5/2/2015 20:26:23 | 49.21 | 46.01 | 1,136 | 0.35 | 0.40 | 62.1 |
| 5/2/2015 20:26:24 | 49.54 | 46.34 | 1,133 | 0.35 | 0.41 | 62.0 |
| 5/2/2015 20:26:24 | 49.87 | 46.67 | 1,133 | 0.35 | 0.41 | 62.0 |
| 5/2/2015 20:26:24 | 50.20 | 47.00 | 1,130 | 0.32 | 0.48 | 61.8 |
| 5/2/2015 20:26:31 | 50.53 | 47.33 | 57 | 3.90 | 0.44 | 3.1 |
| 5/2/2015 20:26:32 | 50.85 | 47.65 | 118 | 4.50 | 0.47 | 6.5 |
| 5/2/2015 20:26:34 | 51.18 | 47.98 | 285 | 3.51 | 0.48 | 15.6 |
| 5/2/2015 20:26:37 | 51.51 | 48.31 | 78 | 3.82 | 0.50 | 4.3 |
| 5/2/2015 20:26:42 | 51.84 | 48.64 | 61 | 4.41 | 0.49 | 3.3 |
| 5/2/2015 20:26:48 | 52.17 | 48.97 | 43 | 3.58 | 0.49 | 2.4 |
| 5/2/2015 20:26:56 | 52.49 | 49.29 | 58 | 3.67 | 0.50 | 3.2 |
| 5/2/2015 20:27:04 | 52.82 | 49.62 | 48 | 3.35 | 0.49 | 2.6 |
| 5/2/2015 20:27:11 | 53.14 | 49.94 | 49 | 4.05 | 0.49 | 2.7 |

## P188 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:24:40

**End Date:**
5/2/2015 20:29:23

**Operator Note:**
'3.2 3.0b Auto Complete'

**Northing:**
349,345.73

**Easting:**
225,449.63

**Tide (feet):**
3.20



## Hole: P189 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:25:03 | 33.46 | 30.26 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 20:25:03 | 33.79 | 30.59 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 20:25:03 | 34.12 | 30.92 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 20:25:04 | 34.45 | 31.25 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 20:25:04 | 34.78 | 31.58 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:04 | 35.11 | 31.91 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:25:05 | 35.43 | 32.23 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:25:05 | 35.76 | 32.56 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 20:25:05 | 36.09 | 32.89 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 20:25:05 | 36.42 | 33.22 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 20:25:06 | 36.75 | 33.55 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:07 | 37.07 | 33.87 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:06 | 37.40 | 34.20 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 20:25:07 | 37.73 | 34.53 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:25:08 | 38.06 | 34.86 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:25:08 | 38.39 | 35.19 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 20:25:08 | 38.71 | 35.51 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:25:09 | 39.04 | 35.84 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 20:25:09 | 39.37 | 36.17 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:09 | 39.70 | 36.50 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:10 | 40.03 | 36.83 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:10 | 40.35 | 37.15 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:10 | 40.68 | 37.48 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:11 | 41.01 | 37.81 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:11 | 41.34 | 38.14 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:11 | 41.67 | 38.47 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 20:25:12 | 41.99 | 38.79 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 20:25:12 | 42.32 | 39.12 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 20:25:12 | 42.65 | 39.45 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:13 | 42.98 | 39.78 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:13 | 43.31 | 40.11 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:13 | 43.64 | 40.44 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:14 | 43.96 | 40.76 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:14 | 44.29 | 41.09 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:14 | 44.62 | 41.42 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 20:25:14 | 44.95 | 41.75 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 20:25:15 | 45.28 | 42.08 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 20:25:15 | 45.60 | 42.40 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 20:25:15 | 45.93 | 42.73 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 20:25:16 | 46.26 | 43.06 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:16 | 46.59 | 43.39 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:16 | 46.92 | 43.72 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 20:25:17 | 47.24 | 44.04 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:17 | 47.57 | 44.37 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 20:25:17 | 47.90 | 44.70 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 20:25:18 | 48.23 | 45.03 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 20:25:30 | 48.56 | 45.36 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 20:25:32 | 48.88 | 45.68 | 118 | 1.14 | 0.29 | 6.4 |
| 5/2/2015 20:25:45 | 49.21 | 46.01 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 20:25:45 | 49.54 | 46.34 | 110 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 20:25:46 | 49.87 | 46.67 | 304 | 1.14 | 0.29 | 16.6 |
| 5/2/2015 20:25:47 | 50.20 | 47.00 | 413 | 1.14 | 0.29 | 22.6 |
| 5/2/2015 20:25:48 | 50.53 | 47.33 | 462 | 1.14 | 0.29 | 25.3 |
| 5/2/2015 20:26:06 | 50.85 | 47.65 | 53 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 20:26:09 | 51.18 | 47.98 | 166 | 1.14 | 0.29 | 9.1 |
| 5/2/2015 20:26:11 | 51.51 | 48.31 | 98 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 20:26:12 | 51.84 | 48.64 | 180 | 1.14 | 0.29 | 9.8 |
| 5/2/2015 20:26:12 | 52.17 | 48.97 | 291 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 20:26:27 | 52.49 | 49.29 | 56 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 20:26:36 | 52.82 | 49.62 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 20:26:46 | 53.15 | 49.95 | 35 | 1.14 | 0.29 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 20:26:56 | 53.48 | 50.28 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 | 20:27:07 | 53.81 | 50.61 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 | 20:27:13 | 54.03 | 50.83 | 38 | 1.14 | 0.29 | 2.1 |

## P189 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:23:51

**End Date:**
5/2/2015 20:29:35

**Operator Note:**
'3.2 3.0 c Auto Complete'

**Northing:**
349,383.50

**Easting:**
225,514.30

**Tide (feet):**
3.20



## Hole: P19 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:52:37 | 32.15 | 30.05 | 1,224 | 0.54 | 0.17 | 66.9 |
| 5/3/2015 5:52:37 | 32.48 | 30.38 | 1,224 | 0.54 | 0.17 | 66.9 |
| 5/3/2015 5:52:37 | 32.81 | 30.71 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:38 | 33.14 | 31.04 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:38 | 33.46 | 31.36 | 1,224 | 0.54 | 0.17 | 66.9 |
| 5/3/2015 5:52:38 | 33.79 | 31.69 | 1,224 | 0.54 | 0.17 | 66.9 |
| 5/3/2015 5:52:38 | 34.12 | 32.02 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/3/2015 5:52:39 | 34.45 | 32.35 | 1,217 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:39 | 34.78 | 32.68 | 1,217 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:39 | 35.11 | 33.01 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:40 | 35.43 | 33.33 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:40 | 35.76 | 33.66 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 5:52:40 | 36.09 | 33.99 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 5:52:40 | 36.42 | 34.32 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:41 | 36.75 | 34.65 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 5:52:41 | 37.07 | 34.97 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 5:52:41 | 37.40 | 35.30 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:42 | 37.73 | 35.63 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:42 | 38.06 | 35.96 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 5:52:42 | 38.39 | 36.29 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 5:52:42 | 38.71 | 36.61 | 1,221 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:43 | 39.04 | 36.94 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:44 | 39.37 | 37.27 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:43 | 39.70 | 37.60 | 1,221 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:44 | 40.03 | 37.93 | 1,221 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:52:44 | 40.35 | 38.25 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:45 | 40.68 | 38.58 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:52:45 | 41.01 | 38.91 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 5:52:51 | 41.34 | 39.24 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:52:52 | 41.67 | 39.57 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:52:52 | 41.99 | 39.89 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 5:52:52 | 42.32 | 40.22 | 346 | 0.54 | 0.17 | 18.9 |
| 5/3/2015 5:52:53 | 42.65 | 40.55 | 346 | 0.54 | 0.17 | 18.9 |
| 5/3/2015 5:52:53 | 42.98 | 40.88 | 573 | 0.54 | 0.17 | 31.3 |
| 5/3/2015 5:52:53 | 43.31 | 41.21 | 573 | 0.54 | 0.17 | 31.3 |
| 5/3/2015 5:52:53 | 43.64 | 41.54 | 781 | 0.54 | 0.17 | 42.7 |
| 5/3/2015 5:52:54 | 43.96 | 41.86 | 1,002 | 0.54 | 0.17 | 54.8 |
| 5/3/2015 5:52:54 | 44.29 | 42.19 | 1,002 | 0.54 | 0.17 | 54.8 |
| 5/3/2015 5:52:54 | 44.62 | 42.52 | 1,102 | 0.54 | 0.17 | 60.3 |
| 5/3/2015 5:52:55 | 44.95 | 42.85 | 1,097 | 0.54 | 0.17 | 60.0 |
| 5/3/2015 5:53:35 | 45.28 | 43.18 | 18 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 5:53:35 | 45.60 | 43.50 | 18 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 5:53:38 | 45.93 | 43.83 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 5:53:43 | 46.26 | 44.16 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:53:44 | 46.59 | 44.49 | 165 | 0.54 | 0.17 | 9.0 |
| 5/3/2015 5:53:45 | 46.92 | 44.82 | 257 | 0.54 | 0.17 | 14.1 |
| 5/3/2015 5:53:46 | 47.24 | 45.14 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 5:54:34 | 47.57 | 45.47 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:54:37 | 47.90 | 45.80 | 138 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 5:54:38 | 48.23 | 46.13 | 201 | 0.54 | 0.17 | 11.0 |
| 5/3/2015 5:54:41 | 48.56 | 46.46 | 177 | 0.54 | 0.17 | 9.7 |
| 5/3/2015 5:55:04 | 48.88 | 46.78 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:55:05 | 49.21 | 47.11 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 5:55:06 | 49.54 | 47.44 | 227 | 0.54 | 0.17 | 12.4 |
| 5/3/2015 5:55:28 | 49.87 | 47.77 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:55:29 | 50.20 | 48.10 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 5:55:30 | 50.53 | 48.43 | 256 | 0.54 | 0.17 | 14.0 |
| 5/3/2015 5:55:30 | 50.85 | 48.75 | 403 | 0.54 | 0.17 | 22.0 |
| 5/3/2015 5:56:02 | 51.18 | 49.08 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:56:14 | 51.51 | 49.41 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 5:56:16 | 51.84 | 49.74 | 204 | 0.54 | 0.17 | 11.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 5:56:17 | 52.17 | 50.07 | 266 | 0.54 | 0.17 | 14.5 |
| 5/3/2015 | 5:56:21 | 52.49 | 50.39 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 5:56:22 | 52.82 | 50.72 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 | 5:56:23 | 53.15 | 51.05 | 277 | 0.54 | 0.17 | 15.1 |
| 5/3/2015 | 5:56:24 | 53.48 | 51.38 | 456 | 0.54 | 0.17 | 24.9 |
| 5/3/2015 | 5:56:32 | 53.81 | 51.71 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 | 5:56:33 | 54.13 | 52.03 | 82 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 | 5:56:34 | 54.46 | 52.36 | 278 | 0.54 | 0.17 | 15.2 |
| 5/3/2015 | 5:56:48 | 54.79 | 52.69 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 5:56:54 | 55.12 | 53.02 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 5:57:00 | 55.45 | 53.35 | 45 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 | 5:57:07 | 55.77 | 53.67 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 | 5:57:13 | 56.10 | 54.00 | 47 | 0.54 | 0.17 | 2.6 |
| 5/3/2015 | 5:57:24 | 56.43 | 54.33 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 | 5:57:36 | 56.76 | 54.66 | 41 | 0.54 | 0.17 | 2.2 |
| 5/3/2015 | 5:57:47 | 57.09 | 54.99 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 5:58:03 | 57.41 | 55.31 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 5:58:06 | 57.49 | 55.39 | 26 | 0.54 | 0.17 | 1.4 |

## P19 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:43:58

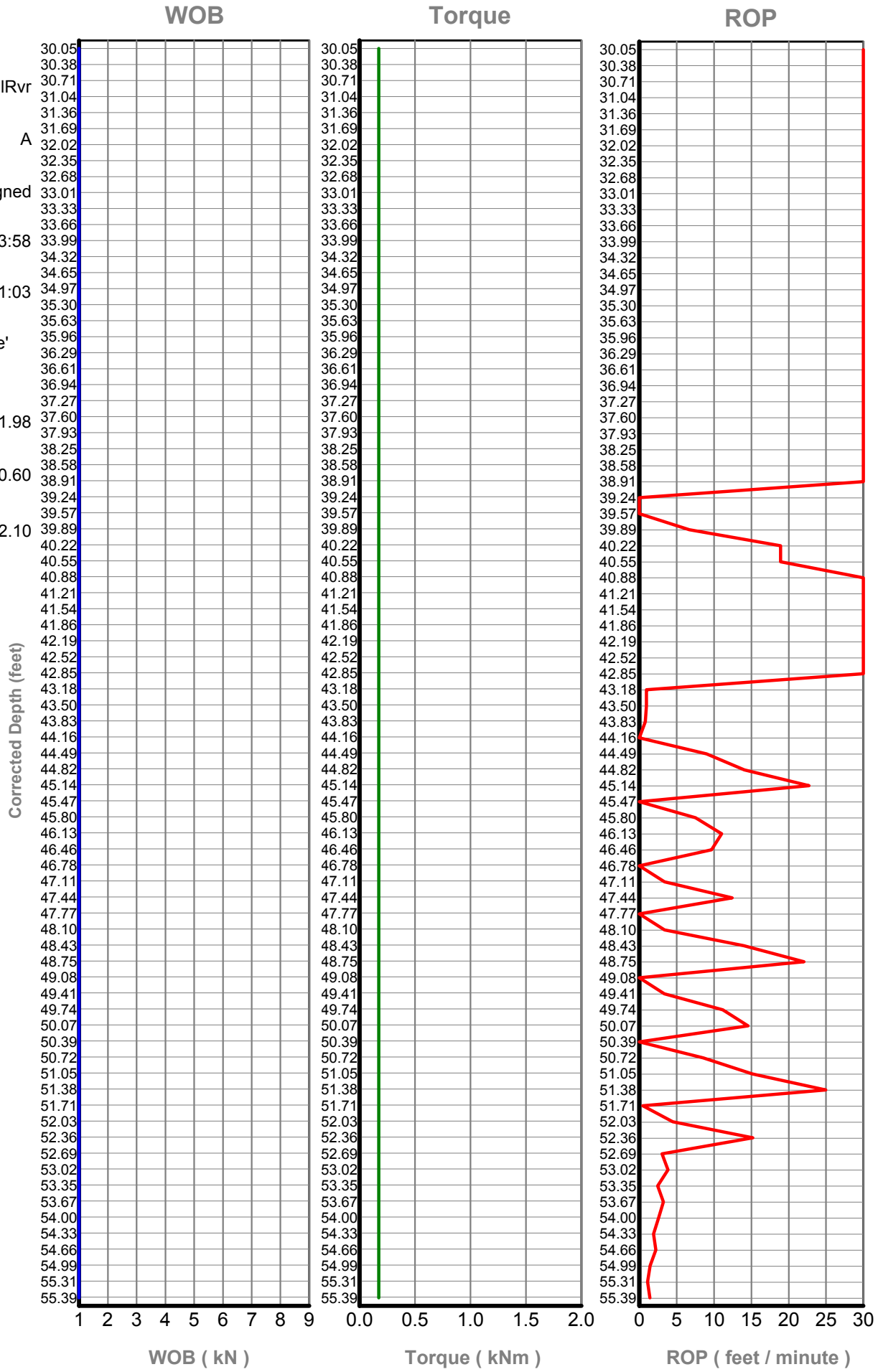
**End Date:**
5/3/2015 6:01:03

**Operator Note:**
'2.1 2.1 a Auto Complete'

**Northing:**
349,321.98

**Easting:**
224,580.60

**Tide (feet):**
2.10



## Hole: P190 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:05:46 | 32.15 | 30.25 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:47 | 32.48 | 30.58 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:47 | 32.81 | 30.91 | 948 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 17:05:48 | 33.14 | 31.24 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 17:05:48 | 33.46 | 31.56 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 17:05:49 | 33.79 | 31.89 | 945 | 0.54 | 0.17 | 51.7 |
| 5/2/2015 17:05:49 | 34.12 | 32.22 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:49 | 34.45 | 32.55 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:50 | 34.78 | 32.88 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:50 | 35.11 | 33.21 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:50 | 35.43 | 33.53 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:51 | 35.76 | 33.86 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 17:05:51 | 36.09 | 34.19 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 17:05:51 | 36.42 | 34.52 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:52 | 36.75 | 34.85 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:52 | 37.07 | 35.17 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:53 | 37.40 | 35.50 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:53 | 37.73 | 35.83 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:53 | 38.06 | 36.16 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:54 | 38.39 | 36.49 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:54 | 38.71 | 36.81 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:54 | 39.04 | 37.14 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:05:55 | 39.37 | 37.47 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:55 | 39.70 | 37.80 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 17:05:56 | 40.03 | 38.13 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 17:05:56 | 40.35 | 38.45 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 17:05:56 | 40.68 | 38.78 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 17:05:57 | 41.01 | 39.11 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:57 | 41.34 | 39.44 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:05:57 | 41.67 | 39.77 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 17:05:58 | 41.99 | 40.09 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 17:05:58 | 42.32 | 40.42 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 17:05:59 | 42.65 | 40.75 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 17:05:59 | 42.98 | 41.08 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:06:00 | 43.31 | 41.41 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:06:00 | 43.64 | 41.74 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:06:00 | 43.96 | 42.06 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 17:06:01 | 44.29 | 42.39 | 934 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 17:06:01 | 44.62 | 42.72 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:06:02 | 44.95 | 43.05 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:06:02 | 45.28 | 43.38 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:06:02 | 45.60 | 43.70 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:06:03 | 45.93 | 44.03 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:06:11 | 46.26 | 44.36 | 11 | 0.54 | 0.17 | 0.6 |
| 5/2/2015 17:06:12 | 46.59 | 44.69 | 138 | 0.54 | 0.17 | 7.5 |
| 5/2/2015 17:06:14 | 46.92 | 45.02 | 159 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 17:06:15 | 47.24 | 45.34 | 250 | 0.54 | 0.17 | 13.6 |
| 5/2/2015 17:06:16 | 47.57 | 45.67 | 326 | 0.54 | 0.17 | 17.8 |
| 5/2/2015 17:06:17 | 47.90 | 46.00 | 460 | 0.54 | 0.17 | 25.1 |
| 5/2/2015 17:06:18 | 48.23 | 46.33 | 381 | 0.54 | 0.17 | 20.8 |
| 5/2/2015 17:06:23 | 48.56 | 46.66 | 45 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 17:06:24 | 48.88 | 46.98 | 149 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 17:06:25 | 49.21 | 47.31 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 17:06:26 | 49.54 | 47.64 | 305 | 0.54 | 0.17 | 16.7 |
| 5/2/2015 17:06:27 | 49.87 | 47.97 | 361 | 0.54 | 0.17 | 19.7 |
| 5/2/2015 17:06:28 | 50.20 | 48.30 | 381 | 0.54 | 0.17 | 20.8 |
| 5/2/2015 17:06:29 | 50.53 | 48.63 | 395 | 0.54 | 0.17 | 21.6 |
| 5/2/2015 17:06:30 | 50.85 | 48.95 | 334 | 0.54 | 0.17 | 18.3 |
| 5/2/2015 17:06:32 | 51.18 | 49.28 | 195 | 0.54 | 0.17 | 10.6 |
| 5/2/2015 17:06:34 | 51.51 | 49.61 | 166 | 0.54 | 0.17 | 9.1 |
| 5/2/2015 17:06:35 | 51.84 | 49.94 | 224 | 0.54 | 0.17 | 12.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 17:06:36 | 52.17 | 50.27 | 297 | 0.54 | 0.17 | 16.3 |
| 5/2/2015 17:06:37 | 52.49 | 50.59 | 361 | 0.54 | 0.17 | 19.7 |
| 5/2/2015 17:06:39 | 52.82 | 50.92 | 313 | 0.54 | 0.17 | 17.1 |
| 5/2/2015 17:06:40 | 53.15 | 51.25 | 218 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 17:06:42 | 53.48 | 51.58 | 232 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 17:06:43 | 53.81 | 51.91 | 238 | 0.54 | 0.17 | 13.0 |
| 5/2/2015 17:06:44 | 54.13 | 52.23 | 301 | 0.54 | 0.17 | 16.4 |
| 5/2/2015 17:06:45 | 54.46 | 52.56 | 330 | 0.54 | 0.17 | 18.1 |
| 5/2/2015 17:06:47 | 54.79 | 52.89 | 221 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 17:06:49 | 55.12 | 53.22 | 262 | 0.54 | 0.17 | 14.3 |
| 5/2/2015 17:06:50 | 55.45 | 53.55 | 291 | 0.54 | 0.17 | 15.9 |
| 5/2/2015 17:06:51 | 55.77 | 53.87 | 283 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 17:06:52 | 56.10 | 54.20 | 282 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 17:06:53 | 56.43 | 54.53 | 282 | 0.54 | 0.17 | 15.4 |
| 5/2/2015 17:06:55 | 56.76 | 54.86 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 17:06:56 | 57.09 | 55.19 | 265 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 17:06:56 | 57.21 | 55.31 | 265 | 0.54 | 0.17 | 14.5 |

## P190 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:04:33

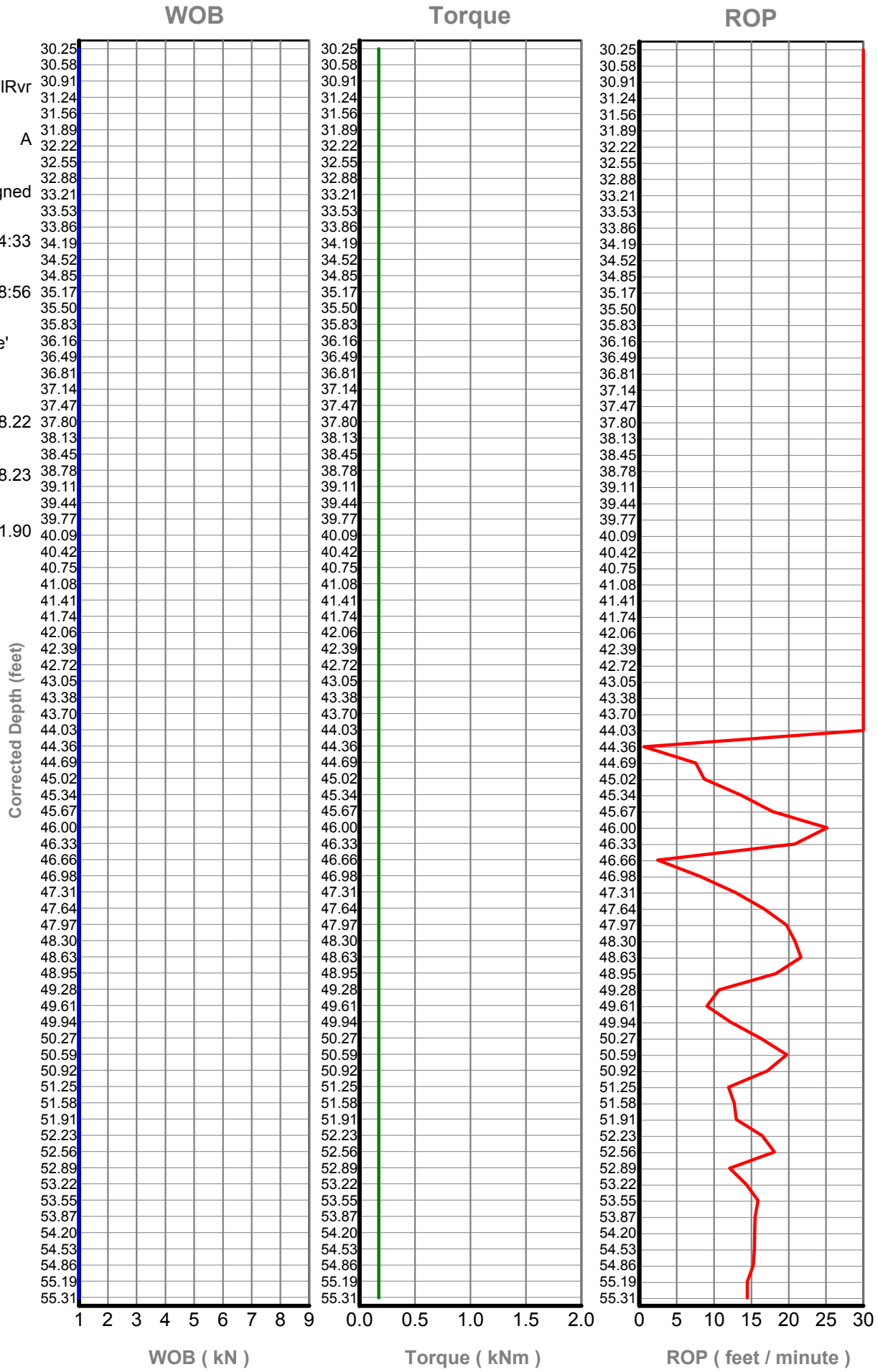
**End Date:**
5/2/2015 17:08:56

**Operator Note:**
'1.9 2.1 a Auto Complete'

**Northing:**
349,418.22

**Easting:**
225,578.23

**Tide (feet):**
1.90



## Hole: P191 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:05:49 | 32.15 | 30.25 | 1,188 | 0.33 | 0.41 | 65.0 |
| 5/2/2015 17:05:49 | 32.48 | 30.58 | 1,188 | 0.33 | 0.41 | 65.0 |
| 5/2/2015 17:05:49 | 32.81 | 30.91 | 1,184 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 17:05:50 | 33.14 | 31.24 | 1,184 | 0.33 | 0.40 | 64.8 |
| 5/2/2015 17:05:50 | 33.46 | 31.56 | 1,193 | 0.35 | 0.41 | 65.2 |
| 5/2/2015 17:05:50 | 33.79 | 31.89 | 1,193 | 0.35 | 0.41 | 65.2 |
| 5/2/2015 17:05:50 | 34.12 | 32.22 | 1,213 | 0.33 | 0.40 | 66.3 |
| 5/2/2015 17:05:51 | 34.45 | 32.55 | 1,220 | 0.33 | 0.40 | 66.7 |
| 5/2/2015 17:05:51 | 34.78 | 32.88 | 1,220 | 0.33 | 0.40 | 66.7 |
| 5/2/2015 17:05:51 | 35.11 | 33.21 | 1,204 | 0.35 | 0.40 | 65.8 |
| 5/2/2015 17:05:52 | 35.43 | 33.53 | 1,204 | 0.35 | 0.40 | 65.8 |
| 5/2/2015 17:05:52 | 35.76 | 33.86 | 1,187 | 0.35 | 0.40 | 64.9 |
| 5/2/2015 17:05:52 | 36.09 | 34.19 | 1,187 | 0.35 | 0.40 | 64.9 |
| 5/2/2015 17:05:52 | 36.42 | 34.52 | 1,187 | 0.33 | 0.40 | 64.9 |
| 5/2/2015 17:05:53 | 36.75 | 34.85 | 1,203 | 0.33 | 0.39 | 65.8 |
| 5/2/2015 17:05:54 | 37.07 | 35.17 | 1,203 | 0.33 | 0.39 | 65.8 |
| 5/2/2015 17:05:54 | 37.40 | 35.50 | 1,199 | 0.33 | 0.39 | 65.6 |
| 5/2/2015 17:05:54 | 37.73 | 35.83 | 1,199 | 0.33 | 0.39 | 65.6 |
| 5/2/2015 17:05:54 | 38.06 | 36.16 | 1,209 | 0.10 | 0.40 | 66.1 |
| 5/2/2015 17:05:55 | 38.39 | 36.49 | 1,209 | 0.10 | 0.40 | 66.1 |
| 5/2/2015 17:05:55 | 38.71 | 36.81 | 1,212 | 0.33 | 0.40 | 66.3 |
| 5/2/2015 17:05:55 | 39.04 | 37.14 | 1,212 | 0.33 | 0.40 | 66.3 |
| 5/2/2015 17:05:55 | 39.37 | 37.47 | 1,232 | 0.33 | 0.40 | 67.4 |
| 5/2/2015 17:05:56 | 39.70 | 37.80 | 1,220 | 0.33 | 0.40 | 66.7 |
| 5/2/2015 17:05:56 | 40.03 | 38.13 | 1,220 | 0.33 | 0.40 | 66.7 |
| 5/2/2015 17:05:56 | 40.35 | 38.45 | 1,226 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 17:05:57 | 40.68 | 38.78 | 1,226 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 17:05:57 | 41.01 | 39.11 | 1,216 | 0.33 | 0.39 | 66.5 |
| 5/2/2015 17:05:57 | 41.34 | 39.44 | 1,216 | 0.33 | 0.39 | 66.5 |
| 5/2/2015 17:05:57 | 41.67 | 39.77 | 1,220 | 0.33 | 0.40 | 66.7 |
| 5/2/2015 17:05:58 | 41.99 | 40.09 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 17:05:58 | 42.32 | 40.42 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 17:05:58 | 42.65 | 40.75 | 1,226 | 0.32 | 0.40 | 67.0 |
| 5/2/2015 17:05:59 | 42.98 | 41.08 | 1,226 | 0.32 | 0.40 | 67.0 |
| 5/2/2015 17:05:59 | 43.31 | 41.41 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 17:05:59 | 43.64 | 41.74 | 1,223 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 17:05:59 | 43.96 | 42.06 | 1,223 | 0.32 | 0.40 | 66.9 |
| 5/2/2015 17:06:00 | 44.29 | 42.39 | 1,223 | 0.32 | 0.40 | 66.9 |
| 5/2/2015 17:06:00 | 44.62 | 42.72 | 1,223 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 17:06:00 | 44.95 | 43.05 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 17:06:01 | 45.28 | 43.38 | 1,226 | 0.33 | 0.39 | 67.0 |
| 5/2/2015 17:06:01 | 45.60 | 43.70 | 1,202 | 0.24 | 0.40 | 65.7 |
| 5/2/2015 17:06:01 | 45.93 | 44.03 | 1,202 | 0.24 | 0.40 | 65.7 |
| 5/2/2015 17:06:01 | 46.26 | 44.36 | 1,202 | 0.33 | 0.39 | 65.7 |
| 5/2/2015 17:06:02 | 46.59 | 44.69 | 1,202 | 0.33 | 0.39 | 65.7 |
| 5/2/2015 17:06:02 | 46.92 | 45.02 | 1,212 | 0.33 | 0.41 | 66.3 |
| 5/2/2015 17:06:02 | 47.24 | 45.34 | 1,212 | 0.33 | 0.41 | 66.3 |
| 5/2/2015 17:06:02 | 47.57 | 45.67 | 1,222 | 0.33 | 0.39 | 66.8 |
| 5/2/2015 17:06:03 | 47.90 | 46.00 | 1,218 | 0.31 | 0.45 | 66.6 |
| 5/2/2015 17:06:12 | 48.23 | 46.33 | 6 | 3.91 | 0.49 | 0.3 |
| 5/2/2015 17:06:14 | 48.56 | 46.66 | 121 | 3.12 | 0.44 | 6.6 |
| 5/2/2015 17:06:14 | 48.88 | 46.98 | 286 | 3.62 | 0.46 | 15.6 |
| 5/2/2015 17:06:16 | 49.21 | 47.31 | 356 | 3.93 | 0.49 | 19.5 |
| 5/2/2015 17:06:17 | 49.54 | 47.64 | 417 | 3.21 | 0.46 | 22.8 |
| 5/2/2015 17:06:17 | 49.87 | 47.97 | 463 | 3.11 | 0.44 | 25.3 |
| 5/2/2015 17:06:18 | 50.20 | 48.30 | 428 | 2.77 | 0.43 | 23.4 |
| 5/2/2015 17:06:25 | 50.53 | 48.63 | 49 | 3.44 | 0.46 | 2.7 |
| 5/2/2015 17:06:25 | 50.85 | 48.95 | 146 | 3.76 | 0.46 | 8.0 |
| 5/2/2015 17:06:26 | 51.18 | 49.28 | 234 | 3.73 | 0.46 | 12.8 |
| 5/2/2015 17:06:26 | 51.51 | 49.61 | 331 | 2.36 | 0.44 | 18.1 |
| 5/2/2015 17:06:27 | 51.84 | 49.94 | 552 | 3.91 | 0.47 | 30.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 17:06:34 | 52.17 | 50.27 | 0 | 2.55 | 0.44 | 0.0 |
| 5/2/2015 17:06:36 | 52.49 | 50.59 | 142 | 3.06 | 0.46 | 7.8 |
| 5/2/2015 17:06:36 | 52.82 | 50.92 | 253 | 2.68 | 0.47 | 13.8 |
| 5/2/2015 17:06:37 | 53.15 | 51.25 | 436 | 3.71 | 0.47 | 23.8 |
| 5/2/2015 17:06:41 | 53.48 | 51.58 | 23 | 3.05 | 0.49 | 1.3 |
| 5/2/2015 17:06:49 | 53.81 | 51.91 | 35 | 3.25 | 0.50 | 1.9 |
| 5/2/2015 17:07:00 | 54.13 | 52.23 | 34 | 3.22 | 0.50 | 1.9 |
| 5/2/2015 17:07:11 | 54.46 | 52.56 | 38 | 3.38 | 0.49 | 2.1 |
| 5/2/2015 17:07:13 | 54.57 | 52.67 | 38 | 3.48 | 0.50 | 2.1 |

## P191 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:04:26

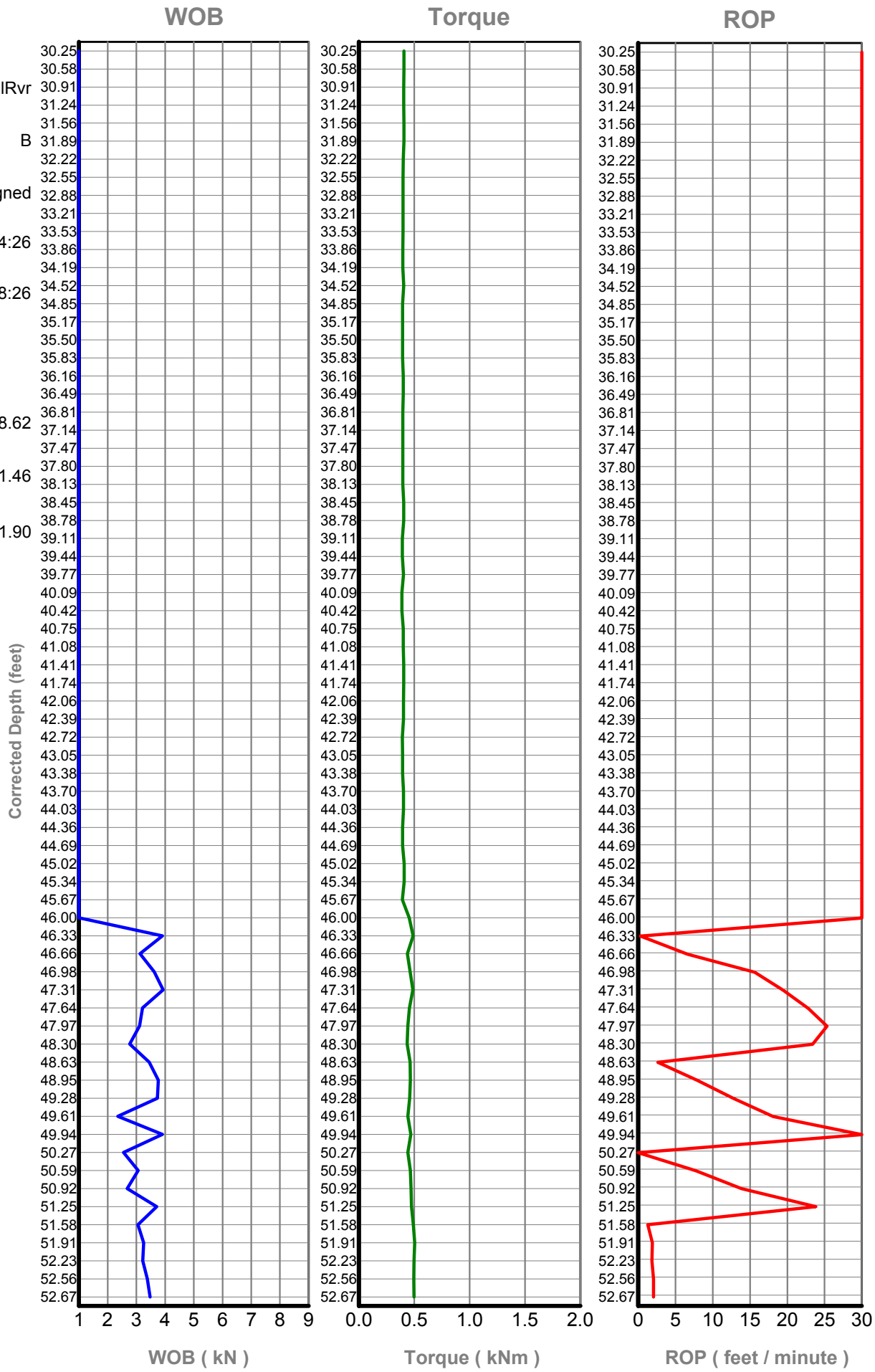
**End Date:**
5/2/2015 17:08:26

**Operator Note:**
'1.9 2.1 b Rock'

**Northing:**
349,458.62

**Easting:**
225,641.46

**Tide (feet):**
1.90



## Hole: P192 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:06:01 | 32.15 | 30.25 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:06:02 | 32.48 | 30.58 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:06:02 | 32.81 | 30.91 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:06:02 | 33.14 | 31.24 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:03 | 33.46 | 31.56 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:03 | 33.79 | 31.89 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:06:03 | 34.12 | 32.22 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:04 | 34.45 | 32.55 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:04 | 34.78 | 32.88 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:06:04 | 35.11 | 33.21 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:05 | 35.43 | 33.53 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:05 | 35.76 | 33.86 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:06:05 | 36.09 | 34.19 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:06:05 | 36.42 | 34.52 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:06 | 36.75 | 34.85 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 17:06:06 | 37.07 | 35.17 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 17:06:06 | 37.40 | 35.50 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 17:06:07 | 37.73 | 35.83 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:06:07 | 38.06 | 36.16 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:06:07 | 38.39 | 36.49 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:06:08 | 38.71 | 36.81 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:06:08 | 39.04 | 37.14 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:06:08 | 39.37 | 37.47 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:06:09 | 39.70 | 37.80 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:06:09 | 40.03 | 38.13 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:06:09 | 40.35 | 38.45 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:06:10 | 40.68 | 38.78 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:06:10 | 41.01 | 39.11 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:10 | 41.34 | 39.44 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:11 | 41.67 | 39.77 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:06:11 | 41.99 | 40.09 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:06:12 | 42.32 | 40.42 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:06:12 | 42.65 | 40.75 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:06:12 | 42.98 | 41.08 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:06:13 | 43.31 | 41.41 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:06:13 | 43.64 | 41.74 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 17:06:13 | 43.96 | 42.06 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:06:14 | 44.29 | 42.39 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:06:14 | 44.62 | 42.72 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:06:14 | 44.95 | 43.05 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:06:15 | 45.28 | 43.38 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:06:15 | 45.60 | 43.70 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:06:15 | 45.93 | 44.03 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:06:15 | 46.26 | 44.36 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 17:06:16 | 46.59 | 44.69 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 17:06:16 | 46.92 | 45.02 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 17:06:30 | 47.24 | 45.34 | 17 | 1.14 | 0.29 | 0.9 |
| 5/2/2015 17:06:32 | 47.57 | 45.67 | 97 | 1.14 | 0.29 | 5.3 |
| 5/2/2015 17:06:32 | 47.90 | 46.00 | 97 | 1.14 | 0.29 | 5.3 |
| 5/2/2015 17:06:33 | 48.23 | 46.33 | 272 | 1.14 | 0.29 | 14.9 |
| 5/2/2015 17:06:34 | 48.56 | 46.66 | 272 | 1.14 | 0.29 | 14.9 |
| 5/2/2015 17:06:35 | 48.88 | 46.98 | 367 | 1.14 | 0.29 | 20.1 |
| 5/2/2015 17:06:36 | 49.21 | 47.31 | 450 | 1.14 | 0.29 | 24.6 |
| 5/2/2015 17:07:35 | 49.54 | 47.64 | 9 | 1.14 | 0.29 | 0.5 |
| 5/2/2015 17:07:35 | 49.87 | 47.97 | 97 | 1.14 | 0.29 | 5.3 |
| 5/2/2015 17:07:36 | 50.20 | 48.30 | 239 | 1.14 | 0.29 | 13.1 |
| 5/2/2015 17:08:55 | 50.53 | 48.63 | 16 | 1.14 | 0.29 | 0.9 |
| 5/2/2015 17:09:18 | 50.85 | 48.95 | 100 | 1.14 | 0.29 | 5.5 |
| 5/2/2015 17:09:18 | 51.18 | 49.28 | 226 | 1.14 | 0.29 | 12.4 |
| 5/2/2015 17:09:19 | 51.51 | 49.61 | 355 | 1.14 | 0.29 | 19.4 |
| 5/2/2015 17:09:20 | 51.84 | 49.94 | 487 | 1.14 | 0.29 | 26.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 17:09:35 | 52.17 | 50.27 | 78 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 17:09:36 | 52.49 | 50.59 | 198 | 1.14 | 0.29 | 10.8 |
| 5/2/2015 17:09:36 | 52.82 | 50.92 | 284 | 1.14 | 0.29 | 15.5 |
| 5/2/2015 17:09:37 | 53.15 | 51.25 | 418 | 1.14 | 0.29 | 22.9 |
| 5/2/2015 17:09:38 | 53.48 | 51.58 | 489 | 1.14 | 0.29 | 26.7 |
| 5/2/2015 17:09:39 | 53.81 | 51.91 | 448 | 1.14 | 0.29 | 24.5 |
| 5/2/2015 17:09:40 | 54.13 | 52.23 | 424 | 1.14 | 0.29 | 23.2 |
| 5/2/2015 17:09:40 | 54.46 | 52.56 | 395 | 1.14 | 0.29 | 21.6 |
| 5/2/2015 17:09:41 | 54.79 | 52.89 | 387 | 1.14 | 0.29 | 21.1 |
| 5/2/2015 17:09:42 | 55.12 | 53.22 | 369 | 1.14 | 0.29 | 20.2 |
| 5/2/2015 17:09:44 | 55.45 | 53.55 | 390 | 1.14 | 0.29 | 21.3 |
| 5/2/2015 17:09:44 | 55.77 | 53.87 | 424 | 1.14 | 0.29 | 23.2 |
| 5/2/2015 17:09:48 | 56.10 | 54.20 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 17:09:53 | 56.43 | 54.53 | 109 | 1.14 | 0.29 | 5.9 |
| 5/2/2015 17:09:55 | 56.76 | 54.86 | 248 | 1.14 | 0.29 | 13.5 |
| 5/2/2015 17:09:56 | 57.09 | 55.19 | 276 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 17:09:57 | 57.19 | 55.29 | 236 | 1.14 | 0.29 | 12.9 |

## P192 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:04:18

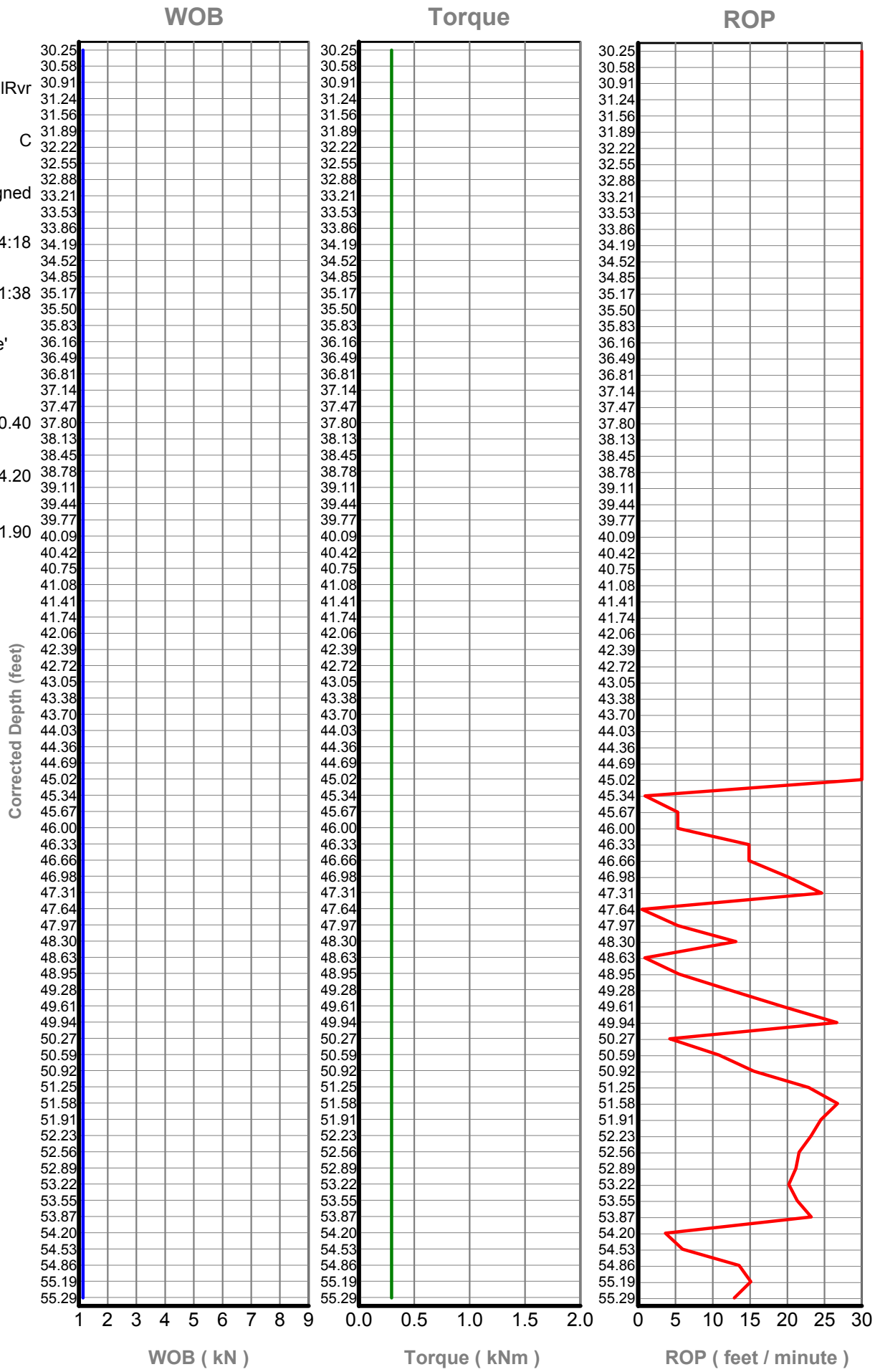
**End Date:**
5/2/2015 17:11:38

**Operator Note:**
'1.9 2.1 c Auto Complete'

**Northing:**
349,500.40

**Easting:**
225,704.20

**Tide (feet):**
1.90



## Hole: P193 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:41:22 | 31.50 | 30.30 | 1,202 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:22 | 31.82 | 30.62 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 20:41:23 | 32.15 | 30.95 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 20:41:23 | 32.48 | 31.28 | 1,202 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:23 | 32.81 | 31.61 | 1,202 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:23 | 33.14 | 31.94 | 1,213 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 20:41:24 | 33.46 | 32.26 | 1,213 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 20:41:24 | 33.79 | 32.59 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:24 | 34.12 | 32.92 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 20:41:25 | 34.45 | 33.25 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 20:41:25 | 34.78 | 33.58 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 20:41:25 | 35.11 | 33.91 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 20:41:25 | 35.43 | 34.23 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:26 | 35.76 | 34.56 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 20:41:26 | 36.09 | 34.89 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 20:41:26 | 36.42 | 35.22 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 20:41:27 | 36.75 | 35.55 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 20:41:27 | 37.07 | 35.87 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 20:41:27 | 37.40 | 36.20 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 20:41:27 | 37.73 | 36.53 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 20:41:28 | 38.06 | 36.86 | 1,195 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 20:41:28 | 38.39 | 37.19 | 1,195 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 20:41:28 | 38.71 | 37.51 | 1,150 | 0.54 | 0.17 | 62.9 |
| 5/3/2015 20:41:29 | 39.04 | 37.84 | 1,102 | 0.54 | 0.17 | 60.3 |
| 5/3/2015 20:41:29 | 39.37 | 38.17 | 1,102 | 0.54 | 0.17 | 60.3 |
| 5/3/2015 20:41:29 | 39.70 | 38.50 | 1,048 | 0.54 | 0.17 | 57.3 |
| 5/3/2015 20:41:30 | 40.03 | 38.83 | 1,048 | 0.54 | 0.17 | 57.3 |
| 5/3/2015 20:41:30 | 40.35 | 39.15 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 20:41:31 | 40.68 | 39.48 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 20:41:31 | 41.01 | 39.81 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 20:41:32 | 41.34 | 40.14 | 802 | 0.54 | 0.17 | 43.8 |
| 5/3/2015 20:41:35 | 41.67 | 40.47 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 20:41:36 | 41.99 | 40.79 | 147 | 0.54 | 0.17 | 8.0 |
| 5/3/2015 20:41:36 | 42.32 | 41.12 | 147 | 0.54 | 0.17 | 8.0 |
| 5/3/2015 20:41:36 | 42.65 | 41.45 | 378 | 0.54 | 0.17 | 20.7 |
| 5/3/2015 20:41:37 | 42.98 | 41.78 | 584 | 0.54 | 0.17 | 32.0 |
| 5/3/2015 20:41:37 | 43.31 | 42.11 | 584 | 0.54 | 0.17 | 32.0 |
| 5/3/2015 20:41:37 | 43.64 | 42.44 | 781 | 0.54 | 0.17 | 42.7 |
| 5/3/2015 20:41:38 | 43.96 | 42.76 | 996 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 20:41:38 | 44.29 | 43.09 | 996 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 20:41:38 | 44.62 | 43.42 | 1,066 | 0.54 | 0.17 | 58.3 |
| 5/3/2015 20:41:39 | 44.95 | 43.75 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 20:41:39 | 45.28 | 44.08 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 20:41:39 | 45.60 | 44.40 | 1,073 | 0.54 | 0.17 | 58.7 |
| 5/3/2015 20:41:40 | 45.93 | 44.73 | 1,073 | 0.54 | 0.17 | 58.7 |
| 5/3/2015 20:41:40 | 46.26 | 45.06 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/3/2015 20:41:40 | 46.59 | 45.39 | 1,050 | 0.54 | 0.17 | 57.4 |
| 5/3/2015 20:41:49 | 46.92 | 45.72 | 95 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 20:41:53 | 47.24 | 46.04 | 32 | 0.54 | 0.17 | 1.8 |
| 5/3/2015 20:42:00 | 47.57 | 46.37 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 20:42:02 | 47.90 | 46.70 | 188 | 0.54 | 0.17 | 10.3 |
| 5/3/2015 20:42:11 | 48.23 | 47.03 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 20:42:13 | 48.56 | 47.36 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 20:42:14 | 48.88 | 47.68 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 20:42:15 | 49.21 | 48.01 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 20:42:15 | 49.54 | 48.34 | 388 | 0.54 | 0.17 | 21.2 |
| 5/3/2015 20:42:16 | 49.87 | 48.67 | 465 | 0.54 | 0.17 | 25.4 |
| 5/3/2015 20:42:16 | 50.20 | 49.00 | 514 | 0.54 | 0.17 | 28.1 |
| 5/3/2015 20:42:17 | 50.53 | 49.33 | 530 | 0.54 | 0.17 | 29.0 |
| 5/3/2015 20:42:17 | 50.85 | 49.65 | 542 | 0.54 | 0.17 | 29.7 |
| 5/3/2015 20:42:18 | 51.18 | 49.98 | 637 | 0.54 | 0.17 | 34.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:42:18 | 51.51 | 50.31 | 637 | 0.54 | 0.17 | 34.8 |
| 5/3/2015 | 20:42:19 | 51.84 | 50.64 | 617 | 0.54 | 0.17 | 33.7 |
| 5/3/2015 | 20:42:20 | 52.17 | 50.97 | 561 | 0.54 | 0.17 | 30.7 |
| 5/3/2015 | 20:42:21 | 52.49 | 51.29 | 526 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 | 20:42:21 | 52.82 | 51.62 | 568 | 0.54 | 0.17 | 31.0 |
| 5/3/2015 | 20:42:22 | 53.15 | 51.95 | 579 | 0.54 | 0.17 | 31.7 |
| 5/3/2015 | 20:42:22 | 53.48 | 52.28 | 561 | 0.54 | 0.17 | 30.7 |
| 5/3/2015 | 20:42:23 | 53.81 | 52.61 | 567 | 0.54 | 0.17 | 31.0 |
| 5/3/2015 | 20:42:24 | 54.13 | 52.93 | 549 | 0.54 | 0.17 | 30.0 |
| 5/3/2015 | 20:42:24 | 54.46 | 53.26 | 555 | 0.54 | 0.17 | 30.4 |
| 5/3/2015 | 20:42:25 | 54.79 | 53.59 | 573 | 0.54 | 0.17 | 31.3 |
| 5/3/2015 | 20:42:25 | 55.12 | 53.92 | 582 | 0.54 | 0.17 | 31.8 |
| 5/3/2015 | 20:42:26 | 55.45 | 54.25 | 605 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 | 20:42:27 | 55.77 | 54.57 | 593 | 0.54 | 0.17 | 32.4 |
| 5/3/2015 | 20:42:27 | 56.10 | 54.90 | 567 | 0.54 | 0.17 | 31.0 |
| 5/3/2015 | 20:42:28 | 56.43 | 55.23 | 532 | 0.54 | 0.17 | 29.1 |
| 5/3/2015 | 20:42:28 | 56.70 | 55.50 | 532 | 0.54 | 0.17 | 29.1 |

## P193 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:33:37

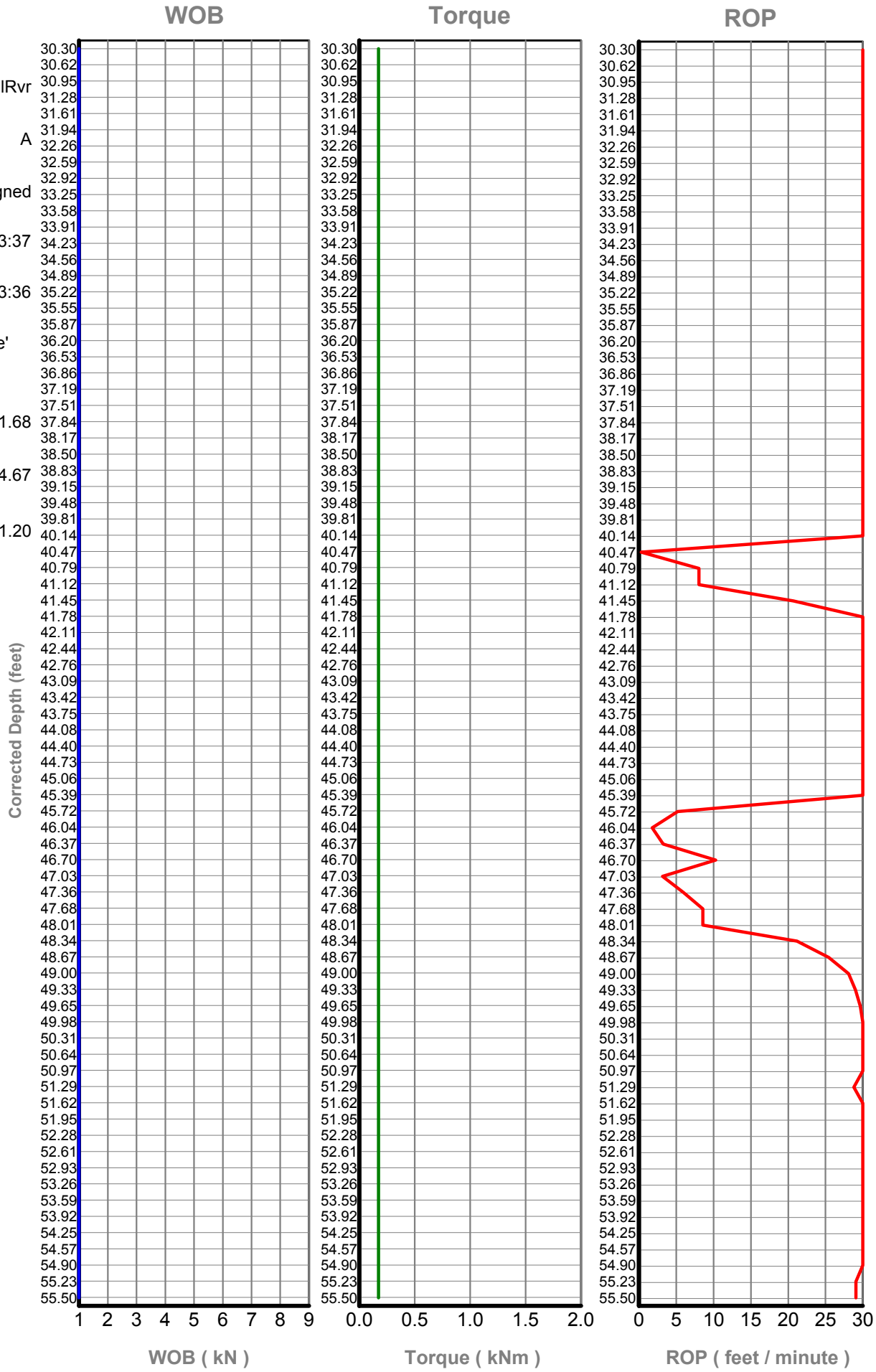
**End Date:**
5/3/2015 20:43:36

**Operator Note:**
'1.2 1.2 a Auto Complete'

**Northing:**
348,521.68

**Easting:**
224,274.67

**Tide (feet):**
1.20



## Hole: P194 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:41:39 | 31.82 | 30.12 | 1,294 | 0.29 | 0.38 | 70.7 |
| 5/3/2015 20:41:39 | 32.15 | 30.45 | 1,306 | 0.29 | 0.39 | 71.4 |
| 5/3/2015 20:41:39 | 32.48 | 30.78 | 1,292 | 0.29 | 0.38 | 70.7 |
| 5/3/2015 20:41:40 | 32.81 | 31.11 | 1,292 | 0.29 | 0.38 | 70.7 |
| 5/3/2015 20:41:40 | 33.14 | 31.44 | 1,295 | 0.30 | 0.38 | 70.8 |
| 5/3/2015 20:41:41 | 33.46 | 31.76 | 1,295 | 0.30 | 0.38 | 70.8 |
| 5/3/2015 20:41:41 | 33.79 | 32.09 | 1,288 | 0.31 | 0.38 | 70.4 |
| 5/3/2015 20:41:41 | 34.12 | 32.42 | 1,288 | 0.31 | 0.38 | 70.4 |
| 5/3/2015 20:41:41 | 34.45 | 32.75 | 1,301 | 0.29 | 0.40 | 71.2 |
| 5/3/2015 20:41:42 | 34.78 | 33.08 | 1,301 | 0.29 | 0.40 | 71.2 |
| 5/3/2015 20:41:42 | 35.11 | 33.41 | 1,301 | 0.29 | 0.39 | 71.2 |
| 5/3/2015 20:41:42 | 35.43 | 33.73 | 1,301 | 0.29 | 0.39 | 71.2 |
| 5/3/2015 20:41:42 | 35.76 | 34.06 | 1,299 | 0.29 | 0.38 | 71.0 |
| 5/3/2015 20:41:43 | 36.09 | 34.39 | 1,299 | 0.29 | 0.38 | 71.0 |
| 5/3/2015 20:41:43 | 36.42 | 34.72 | 1,285 | 0.30 | 0.38 | 70.3 |
| 5/3/2015 20:41:43 | 36.75 | 35.05 | 1,285 | 0.30 | 0.38 | 70.3 |
| 5/3/2015 20:41:43 | 37.07 | 35.37 | 1,303 | 0.30 | 0.40 | 71.3 |
| 5/3/2015 20:41:44 | 37.40 | 35.70 | 1,303 | 0.30 | 0.40 | 71.3 |
| 5/3/2015 20:41:44 | 37.73 | 36.03 | 1,289 | 0.30 | 0.40 | 70.5 |
| 5/3/2015 20:41:44 | 38.06 | 36.36 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/3/2015 20:41:45 | 38.39 | 36.69 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/3/2015 20:41:45 | 38.71 | 37.01 | 1,275 | 0.30 | 0.38 | 69.7 |
| 5/3/2015 20:41:45 | 39.04 | 37.34 | 1,275 | 0.30 | 0.38 | 69.7 |
| 5/3/2015 20:41:45 | 39.37 | 37.67 | 1,303 | 0.30 | 0.40 | 71.2 |
| 5/3/2015 20:41:46 | 39.70 | 38.00 | 1,303 | 0.30 | 0.40 | 71.2 |
| 5/3/2015 20:41:46 | 40.03 | 38.33 | 1,300 | 0.30 | 0.37 | 71.1 |
| 5/3/2015 20:41:46 | 40.35 | 38.65 | 1,300 | 0.30 | 0.37 | 71.1 |
| 5/3/2015 20:41:46 | 40.68 | 38.98 | 1,303 | 0.30 | 0.38 | 71.2 |
| 5/3/2015 20:41:47 | 41.01 | 39.31 | 1,303 | 0.30 | 0.38 | 71.2 |
| 5/3/2015 20:41:47 | 41.34 | 39.64 | 1,288 | 0.29 | 0.38 | 70.4 |
| 5/3/2015 20:41:47 | 41.67 | 39.97 | 1,288 | 0.29 | 0.38 | 70.4 |
| 5/3/2015 20:41:47 | 41.99 | 40.29 | 1,321 | 0.30 | 0.38 | 72.2 |
| 5/3/2015 20:41:48 | 42.32 | 40.62 | 1,321 | 0.30 | 0.38 | 72.2 |
| 5/3/2015 20:41:48 | 42.65 | 40.95 | 1,296 | 0.30 | 0.40 | 70.9 |
| 5/3/2015 20:41:48 | 42.98 | 41.28 | 1,296 | 0.30 | 0.40 | 70.9 |
| 5/3/2015 20:41:48 | 43.31 | 41.61 | 1,288 | 0.30 | 0.38 | 70.5 |
| 5/3/2015 20:41:49 | 43.64 | 41.94 | 1,285 | 0.30 | 0.39 | 70.3 |
| 5/3/2015 20:41:49 | 43.96 | 42.26 | 1,285 | 0.30 | 0.39 | 70.3 |
| 5/3/2015 20:41:49 | 44.29 | 42.59 | 1,304 | 0.30 | 0.40 | 71.3 |
| 5/3/2015 20:41:50 | 44.62 | 42.92 | 1,304 | 0.30 | 0.40 | 71.3 |
| 5/3/2015 20:41:50 | 44.95 | 43.25 | 1,281 | 0.30 | 0.39 | 70.1 |
| 5/3/2015 20:41:50 | 45.28 | 43.58 | 1,281 | 0.30 | 0.39 | 70.1 |
| 5/3/2015 20:41:50 | 45.60 | 43.90 | 1,289 | 0.30 | 0.38 | 70.5 |
| 5/3/2015 20:41:51 | 45.93 | 44.23 | 1,289 | 0.30 | 0.38 | 70.5 |
| 5/3/2015 20:41:51 | 46.26 | 44.56 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 20:41:52 | 46.59 | 44.89 | 1,289 | 0.31 | 0.39 | 70.5 |
| 5/3/2015 20:41:52 | 46.92 | 45.22 | 1,300 | 0.28 | 0.43 | 71.1 |
| 5/3/2015 20:41:59 | 47.24 | 45.54 | 47 | 2.96 | 0.41 | 2.6 |
| 5/3/2015 20:42:00 | 47.57 | 45.87 | 132 | 4.83 | 0.47 | 7.2 |
| 5/3/2015 20:42:03 | 47.90 | 46.20 | 130 | 3.56 | 0.45 | 7.1 |
| 5/3/2015 20:42:03 | 48.23 | 46.53 | 218 | 2.84 | 0.46 | 11.9 |
| 5/3/2015 20:42:04 | 48.56 | 46.86 | 301 | 3.42 | 0.45 | 16.4 |
| 5/3/2015 20:42:05 | 48.88 | 47.18 | 504 | 3.83 | 0.47 | 27.5 |
| 5/3/2015 20:42:21 | 49.21 | 47.51 | 62 | 3.71 | 0.45 | 3.4 |
| 5/3/2015 20:42:22 | 49.54 | 47.84 | 200 | 4.44 | 0.44 | 10.9 |
| 5/3/2015 20:42:23 | 49.87 | 48.17 | 303 | 3.65 | 0.41 | 16.6 |
| 5/3/2015 20:42:23 | 50.20 | 48.50 | 421 | 2.96 | 0.32 | 23.0 |
| 5/3/2015 20:42:24 | 50.53 | 48.83 | 471 | 2.43 | 0.31 | 25.8 |
| 5/3/2015 20:42:25 | 50.85 | 49.15 | 544 | 2.33 | 0.37 | 29.7 |
| 5/3/2015 20:42:25 | 51.18 | 49.48 | 556 | 2.21 | 0.33 | 30.4 |
| 5/3/2015 20:42:26 | 51.51 | 49.81 | 546 | 2.32 | 0.38 | 29.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 20:42:26 | 51.84 | 50.14 | 546 | 2.40 | 0.39 | 29.9 |
| 5/3/2015 20:42:27 | 52.17 | 50.47 | 552 | 2.57 | 0.44 | 30.2 |
| 5/3/2015 20:42:28 | 52.49 | 50.79 | 543 | 2.39 | 0.36 | 29.7 |
| 5/3/2015 20:42:28 | 52.82 | 51.12 | 546 | 2.36 | 0.28 | 29.9 |
| 5/3/2015 20:42:29 | 53.15 | 51.45 | 549 | 2.36 | 0.32 | 30.0 |
| 5/3/2015 20:42:30 | 53.48 | 51.78 | 543 | 2.60 | 0.31 | 29.7 |
| 5/3/2015 20:42:30 | 53.81 | 52.11 | 546 | 3.18 | 0.44 | 29.9 |
| 5/3/2015 20:42:31 | 54.13 | 52.43 | 526 | 3.05 | 0.44 | 28.8 |
| 5/3/2015 20:42:32 | 54.46 | 52.76 | 529 | 2.96 | 0.44 | 28.9 |
| 5/3/2015 20:42:33 | 54.79 | 53.09 | 526 | 3.07 | 0.42 | 28.8 |
| 5/3/2015 20:42:33 | 55.12 | 53.42 | 523 | 2.69 | 0.40 | 28.6 |
| 5/3/2015 20:42:34 | 55.45 | 53.75 | 547 | 2.48 | 0.32 | 29.9 |
| 5/3/2015 20:42:35 | 55.77 | 54.07 | 546 | 2.45 | 0.27 | 29.9 |
| 5/3/2015 20:42:35 | 56.10 | 54.40 | 558 | 2.49 | 0.32 | 30.5 |
| 5/3/2015 20:42:35 | 56.25 | 54.55 | 558 | 2.49 | 0.32 | 30.5 |

## P194 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:40:23

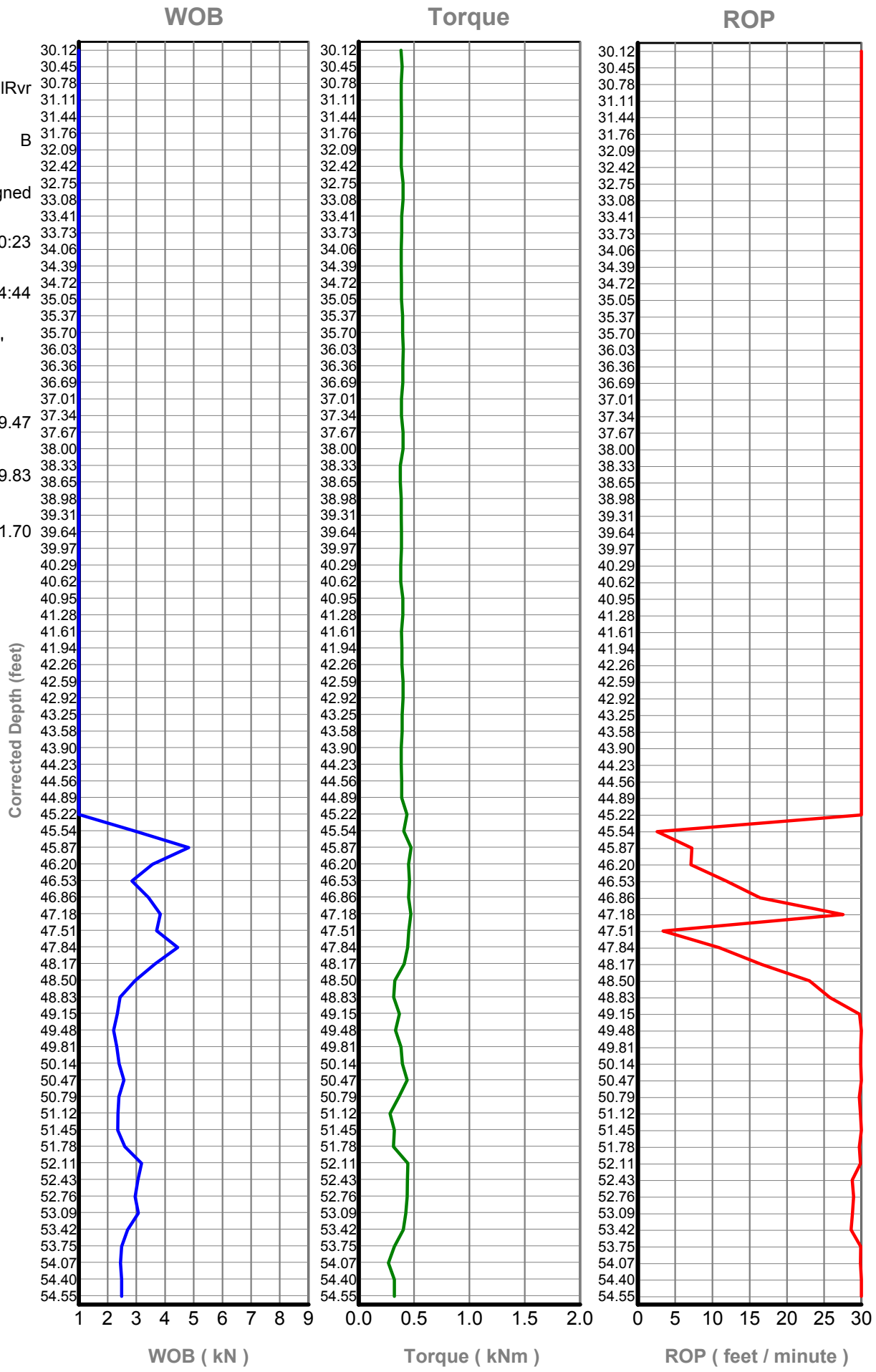
**End Date:**
5/3/2015 20:44:44

**Operator Note:**
'1.7 1.2b Auto Complete'

**Northing:**
348,559.47

**Easting:**
224,339.83

**Tide (feet):**
1.70



## Hole: P195 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:40:06 | 31.82 | 30.12 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:40:06 | 32.15 | 30.45 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:40:07 | 32.48 | 30.78 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 20:40:07 | 32.81 | 31.11 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 20:40:07 | 33.14 | 31.44 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:40:08 | 33.46 | 31.76 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:40:08 | 33.79 | 32.09 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:40:08 | 34.12 | 32.42 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:40:09 | 34.45 | 32.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:40:09 | 34.78 | 33.08 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 20:40:09 | 35.11 | 33.41 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 20:40:10 | 35.43 | 33.73 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 20:40:10 | 35.76 | 34.06 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:40:10 | 36.09 | 34.39 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:40:11 | 36.42 | 34.72 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 20:40:11 | 36.75 | 35.05 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 20:40:11 | 37.07 | 35.37 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 20:40:11 | 37.40 | 35.70 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:12 | 37.73 | 36.03 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 20:40:12 | 38.06 | 36.36 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 20:40:12 | 38.39 | 36.69 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 20:40:13 | 38.71 | 37.01 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 20:40:14 | 39.04 | 37.34 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 20:40:13 | 39.37 | 37.67 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:40:14 | 39.70 | 38.00 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:40:14 | 40.03 | 38.33 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 20:40:15 | 40.35 | 38.65 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:40:15 | 40.68 | 38.98 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:40:15 | 41.01 | 39.31 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 20:40:16 | 41.34 | 39.64 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:16 | 41.67 | 39.97 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:16 | 41.99 | 40.29 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:40:17 | 42.32 | 40.62 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:40:17 | 42.65 | 40.95 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:40:17 | 42.98 | 41.28 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:40:18 | 43.31 | 41.61 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 20:40:18 | 43.64 | 41.94 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:18 | 43.96 | 42.26 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:40:19 | 44.29 | 42.59 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:40:19 | 44.62 | 42.92 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:40:19 | 44.95 | 43.25 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:40:20 | 45.28 | 43.58 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:40:20 | 45.60 | 43.90 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:20 | 45.93 | 44.23 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 20:40:20 | 46.26 | 44.56 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:40:21 | 46.59 | 44.89 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 20:40:21 | 46.92 | 45.22 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 20:40:36 | 47.24 | 45.54 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 20:40:37 | 47.57 | 45.87 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 20:40:37 | 47.90 | 46.20 | 170 | 1.14 | 0.29 | 9.3 |
| 5/3/2015 20:40:38 | 48.23 | 46.53 | 301 | 1.14 | 0.29 | 16.4 |
| 5/3/2015 20:40:39 | 48.56 | 46.86 | 445 | 1.14 | 0.29 | 24.3 |
| 5/3/2015 20:40:39 | 48.88 | 47.18 | 608 | 1.14 | 0.29 | 33.2 |
| 5/3/2015 20:40:54 | 49.21 | 47.51 | 69 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 20:40:55 | 49.54 | 47.84 | 124 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 20:40:58 | 49.87 | 48.17 | 172 | 1.14 | 0.29 | 9.4 |
| 5/3/2015 20:41:00 | 50.20 | 48.50 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 20:41:03 | 50.53 | 48.83 | 130 | 1.14 | 0.29 | 7.1 |
| 5/3/2015 20:41:06 | 50.85 | 49.15 | 157 | 1.14 | 0.29 | 8.6 |
| 5/3/2015 20:41:08 | 51.18 | 49.48 | 67 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 20:41:09 | 51.51 | 49.81 | 168 | 1.14 | 0.29 | 9.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:41:11 | 51.84 | 50.14 | 219 | 1.14 | 0.29 | 12.0 |
| 5/3/2015 | 20:41:17 | 52.17 | 50.47 | 24 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 20:41:23 | 52.49 | 50.79 | 78 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 | 20:41:31 | 52.82 | 51.12 | 42 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 | 20:41:33 | 53.15 | 51.45 | 74 | 1.14 | 0.29 | 4.0 |
| 5/3/2015 | 20:41:33 | 53.48 | 51.78 | 217 | 1.14 | 0.29 | 11.8 |
| 5/3/2015 | 20:41:34 | 53.81 | 52.11 | 389 | 1.14 | 0.29 | 21.3 |
| 5/3/2015 | 20:41:35 | 54.13 | 52.43 | 389 | 1.14 | 0.29 | 21.3 |
| 5/3/2015 | 20:41:35 | 54.46 | 52.76 | 495 | 1.14 | 0.29 | 27.1 |
| 5/3/2015 | 20:41:36 | 54.79 | 53.09 | 587 | 1.14 | 0.29 | 32.1 |
| 5/3/2015 | 20:41:37 | 55.12 | 53.42 | 540 | 1.14 | 0.29 | 29.6 |
| 5/3/2015 | 20:41:38 | 55.45 | 53.75 | 540 | 1.14 | 0.29 | 29.6 |
| 5/3/2015 | 20:41:38 | 55.77 | 54.07 | 555 | 1.14 | 0.29 | 30.3 |
| 5/3/2015 | 20:41:39 | 56.10 | 54.40 | 543 | 1.14 | 0.29 | 29.7 |
| 5/3/2015 | 20:41:39 | 56.37 | 54.67 | 543 | 1.14 | 0.29 | 29.7 |

## P195 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:39:09

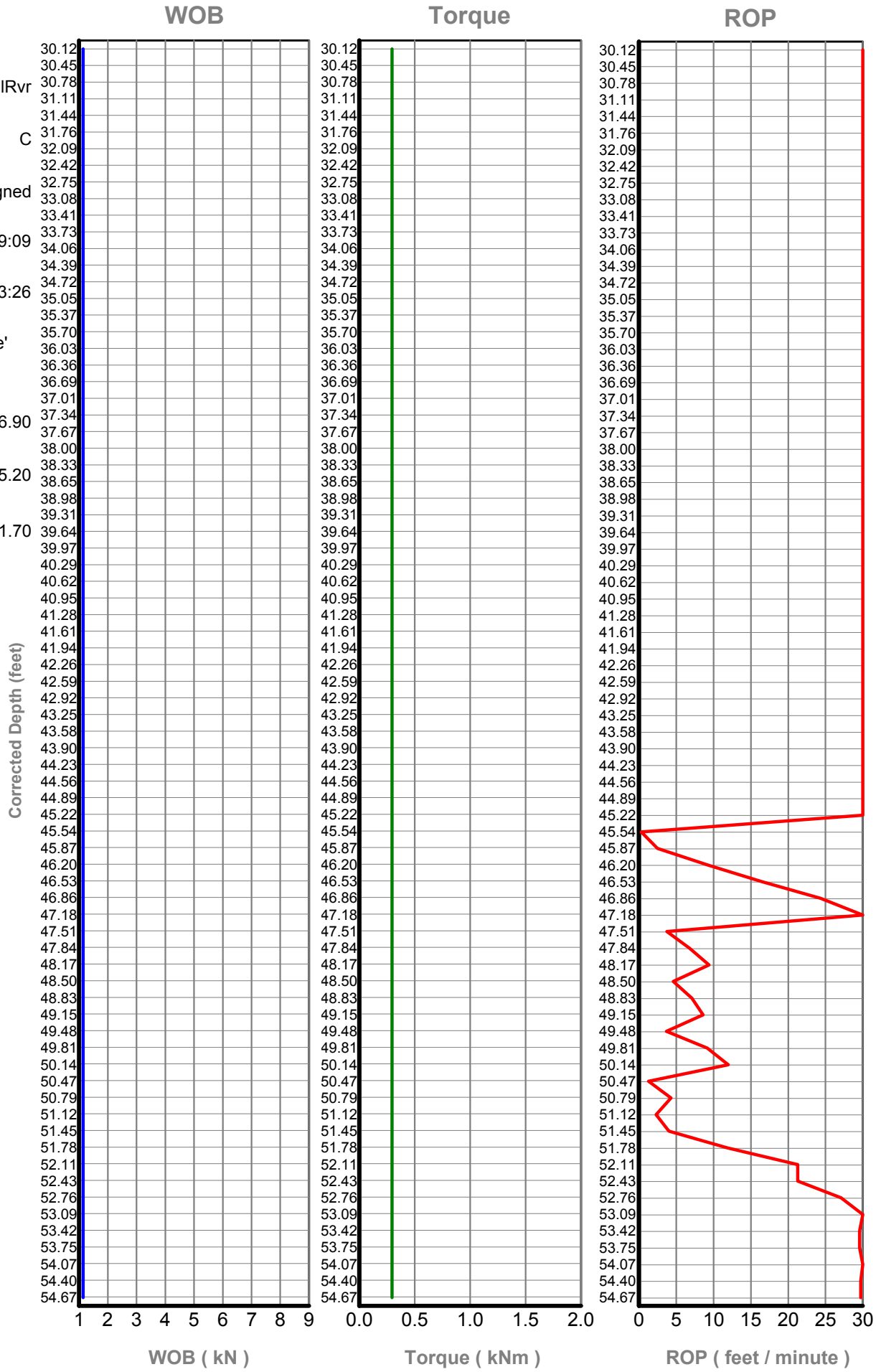
**End Date:**
5/3/2015 20:43:26

**Operator Note:**
'1.7 1.2 c Auto Complete'

**Northing:**
348,596.90

**Easting:**
224,405.20

**Tide (feet):**
1.70



## Hole: P196 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:34:50 | 31.82 | 30.02 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:50 | 32.15 | 30.35 | 968 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:51 | 32.48 | 30.68 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 17:34:51 | 32.81 | 31.01 | 968 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:52 | 33.14 | 31.34 | 968 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:52 | 33.46 | 31.66 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:34:52 | 33.79 | 31.99 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 17:34:53 | 34.12 | 32.32 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 17:34:53 | 34.45 | 32.65 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:53 | 34.78 | 32.98 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 17:34:54 | 35.11 | 33.31 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:54 | 35.43 | 33.63 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:54 | 35.76 | 33.96 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 17:34:55 | 36.09 | 34.29 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 17:34:55 | 36.42 | 34.62 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 17:34:55 | 36.75 | 34.95 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:34:56 | 37.07 | 35.27 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:34:56 | 37.40 | 35.60 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:57 | 37.73 | 35.93 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:57 | 38.06 | 36.26 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:34:58 | 38.39 | 36.59 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:58 | 38.71 | 36.91 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:58 | 39.04 | 37.24 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:59 | 39.37 | 37.57 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:59 | 39.70 | 37.90 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 17:34:59 | 40.03 | 38.23 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:35:00 | 40.35 | 38.55 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 17:35:00 | 40.68 | 38.88 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:35:01 | 41.01 | 39.21 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:35:01 | 41.34 | 39.54 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 17:35:01 | 41.67 | 39.87 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 17:35:02 | 41.99 | 40.19 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 17:35:02 | 42.32 | 40.52 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 17:35:02 | 42.65 | 40.85 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:35:03 | 42.98 | 41.18 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 17:35:03 | 43.31 | 41.51 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 17:35:03 | 43.64 | 41.84 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 17:35:04 | 43.96 | 42.16 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:35:04 | 44.29 | 42.49 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:35:05 | 44.62 | 42.82 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 17:35:05 | 44.95 | 43.15 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:35:05 | 45.28 | 43.48 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 17:35:06 | 45.60 | 43.80 | 930 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 17:35:16 | 45.93 | 44.13 | 129 | 0.54 | 0.17 | 7.1 |
| 5/3/2015 17:35:17 | 46.26 | 44.46 | 229 | 0.54 | 0.17 | 12.5 |
| 5/3/2015 17:35:17 | 46.59 | 44.79 | 341 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 17:35:18 | 46.92 | 45.12 | 464 | 0.54 | 0.17 | 25.4 |
| 5/3/2015 17:35:23 | 47.24 | 45.44 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 17:35:27 | 47.57 | 45.77 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 17:35:28 | 47.90 | 46.10 | 250 | 0.54 | 0.17 | 13.7 |
| 5/3/2015 17:35:30 | 48.23 | 46.43 | 230 | 0.54 | 0.17 | 12.6 |
| 5/3/2015 17:35:31 | 48.56 | 46.76 | 196 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 17:35:32 | 48.88 | 47.08 | 256 | 0.54 | 0.17 | 14.0 |
| 5/3/2015 17:35:33 | 49.21 | 47.41 | 332 | 0.54 | 0.17 | 18.2 |
| 5/3/2015 17:35:34 | 49.54 | 47.74 | 511 | 0.54 | 0.17 | 27.9 |
| 5/3/2015 17:35:34 | 49.87 | 48.07 | 468 | 0.54 | 0.17 | 25.6 |
| 5/3/2015 17:35:35 | 50.20 | 48.40 | 486 | 0.54 | 0.17 | 26.6 |
| 5/3/2015 17:35:36 | 50.53 | 48.73 | 416 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 17:35:37 | 50.85 | 49.05 | 304 | 0.54 | 0.17 | 16.6 |
| 5/3/2015 17:35:38 | 51.18 | 49.38 | 269 | 0.54 | 0.17 | 14.7 |
| 5/3/2015 17:35:40 | 51.51 | 49.71 | 328 | 0.54 | 0.17 | 18.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 17:35:40 | 51.84 | 50.04 | 340 | 0.54 | 0.17 | 18.6 |
| 5/3/2015 17:35:41 | 52.17 | 50.37 | 306 | 0.54 | 0.17 | 16.7 |
| 5/3/2015 17:35:42 | 52.49 | 50.69 | 389 | 0.54 | 0.17 | 21.3 |
| 5/3/2015 17:36:11 | 52.82 | 51.02 | 89 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 17:36:13 | 53.15 | 51.35 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 17:36:15 | 53.48 | 51.68 | 215 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 17:36:16 | 53.81 | 52.01 | 253 | 0.54 | 0.17 | 13.8 |
| 5/3/2015 17:36:18 | 54.13 | 52.33 | 278 | 0.54 | 0.17 | 15.2 |
| 5/3/2015 17:36:22 | 54.46 | 52.66 | 63 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 17:37:01 | 54.79 | 52.99 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 17:37:25 | 55.12 | 53.32 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 17:37:43 | 55.45 | 53.65 | 19 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 17:38:01 | 55.77 | 53.97 | 24 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 17:38:12 | 55.98 | 54.18 | 17 | 0.54 | 0.17 | 1.0 |

## P196 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:33:38

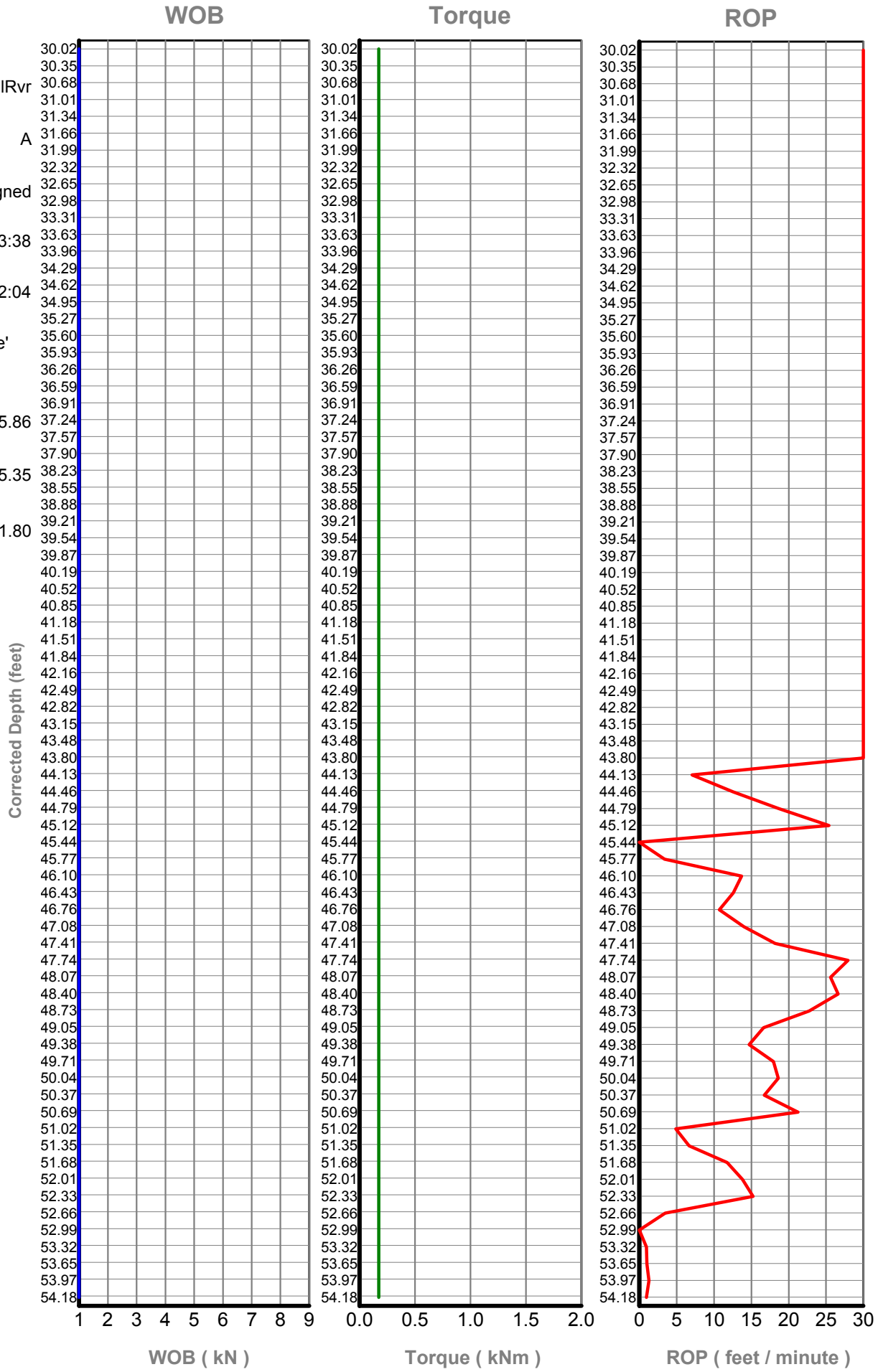
**End Date:**
5/3/2015 17:42:04

**Operator Note:**
'1.8 2.0 a Auto Complete'

**Northing:**
348,645.86

**Easting:**
224,475.35

**Tide (feet):**
1.80



## Hole: P197 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:34:45 | 31.82 | 30.02 | 1,395 | 0.26 | 0.37 | 76.3 |
| 5/3/2015 17:34:45 | 32.15 | 30.35 | 1,411 | 0.26 | 0.39 | 77.1 |
| 5/3/2015 17:34:46 | 32.48 | 30.68 | 1,411 | 0.26 | 0.39 | 77.1 |
| 5/3/2015 17:34:46 | 32.81 | 31.01 | 1,385 | 0.26 | 0.38 | 75.7 |
| 5/3/2015 17:34:46 | 33.14 | 31.34 | 1,385 | 0.26 | 0.38 | 75.7 |
| 5/3/2015 17:34:47 | 33.46 | 31.66 | 1,390 | 0.26 | 0.38 | 76.0 |
| 5/3/2015 17:34:47 | 33.79 | 31.99 | 1,390 | 0.26 | 0.38 | 76.0 |
| 5/3/2015 17:34:47 | 34.12 | 32.32 | 1,387 | 0.27 | 0.37 | 75.9 |
| 5/3/2015 17:34:47 | 34.45 | 32.65 | 1,387 | 0.27 | 0.37 | 75.9 |
| 5/3/2015 17:34:48 | 34.78 | 32.98 | 1,393 | 0.26 | 0.38 | 76.2 |
| 5/3/2015 17:34:48 | 35.11 | 33.31 | 1,393 | 0.26 | 0.38 | 76.2 |
| 5/3/2015 17:34:48 | 35.43 | 33.63 | 1,393 | 0.26 | 0.37 | 76.2 |
| 5/3/2015 17:34:48 | 35.76 | 33.96 | 1,393 | 0.26 | 0.37 | 76.2 |
| 5/3/2015 17:34:49 | 36.09 | 34.29 | 1,390 | 0.25 | 0.38 | 76.0 |
| 5/3/2015 17:34:49 | 36.42 | 34.62 | 1,390 | 0.25 | 0.38 | 76.0 |
| 5/3/2015 17:34:49 | 36.75 | 34.95 | 1,385 | 0.27 | 0.37 | 75.7 |
| 5/3/2015 17:34:49 | 37.07 | 35.27 | 1,385 | 0.27 | 0.37 | 75.7 |
| 5/3/2015 17:34:50 | 37.40 | 35.60 | 1,388 | 0.25 | 0.37 | 75.9 |
| 5/3/2015 17:34:50 | 37.73 | 35.93 | 1,388 | 0.25 | 0.37 | 75.9 |
| 5/3/2015 17:34:50 | 38.06 | 36.26 | 1,379 | 0.25 | 0.37 | 75.4 |
| 5/3/2015 17:34:51 | 38.39 | 36.59 | 1,379 | 0.25 | 0.37 | 75.4 |
| 5/3/2015 17:34:51 | 38.71 | 36.91 | 1,342 | 0.26 | 0.36 | 73.4 |
| 5/3/2015 17:34:51 | 39.04 | 37.24 | 1,342 | 0.26 | 0.36 | 73.4 |
| 5/3/2015 17:34:51 | 39.37 | 37.57 | 1,342 | 0.25 | 0.39 | 73.4 |
| 5/3/2015 17:34:52 | 39.70 | 37.90 | 1,342 | 0.25 | 0.39 | 73.4 |
| 5/3/2015 17:34:52 | 40.03 | 38.23 | 1,370 | 0.25 | 0.36 | 74.9 |
| 5/3/2015 17:34:52 | 40.35 | 38.55 | 1,370 | 0.25 | 0.36 | 74.9 |
| 5/3/2015 17:34:52 | 40.68 | 38.88 | 1,380 | 0.25 | 0.37 | 75.5 |
| 5/3/2015 17:34:53 | 41.01 | 39.21 | 1,380 | 0.25 | 0.37 | 75.5 |
| 5/3/2015 17:34:53 | 41.34 | 39.54 | 1,370 | 0.25 | 0.39 | 74.9 |
| 5/3/2015 17:34:53 | 41.67 | 39.87 | 1,370 | 0.25 | 0.39 | 74.9 |
| 5/3/2015 17:34:53 | 41.99 | 40.19 | 1,364 | 0.25 | 0.36 | 74.6 |
| 5/3/2015 17:34:54 | 42.32 | 40.52 | 1,364 | 0.25 | 0.36 | 74.6 |
| 5/3/2015 17:34:54 | 42.65 | 40.85 | 1,388 | 0.26 | 0.39 | 75.9 |
| 5/3/2015 17:34:54 | 42.98 | 41.18 | 1,388 | 0.26 | 0.39 | 75.9 |
| 5/3/2015 17:34:54 | 43.31 | 41.51 | 1,388 | 0.25 | 0.37 | 75.9 |
| 5/3/2015 17:34:55 | 43.64 | 41.84 | 1,388 | 0.25 | 0.37 | 75.9 |
| 5/3/2015 17:34:55 | 43.96 | 42.16 | 1,377 | 0.26 | 0.37 | 75.3 |
| 5/3/2015 17:34:55 | 44.29 | 42.49 | 1,377 | 0.26 | 0.37 | 75.3 |
| 5/3/2015 17:34:55 | 44.62 | 42.82 | 1,369 | 0.26 | 0.40 | 74.9 |
| 5/3/2015 17:34:56 | 44.95 | 43.15 | 1,369 | 0.26 | 0.40 | 74.9 |
| 5/3/2015 17:34:56 | 45.28 | 43.48 | 1,367 | 0.27 | 0.36 | 74.8 |
| 5/3/2015 17:34:56 | 45.60 | 43.80 | 1,367 | 0.27 | 0.36 | 74.8 |
| 5/3/2015 17:34:57 | 45.93 | 44.13 | 1,389 | 0.23 | 0.46 | 76.0 |
| 5/3/2015 17:35:06 | 46.26 | 44.46 | 49 | 3.31 | 0.44 | 2.7 |
| 5/3/2015 17:35:07 | 46.59 | 44.79 | 183 | 4.81 | 0.47 | 10.0 |
| 5/3/2015 17:35:17 | 46.92 | 45.12 | 23 | 2.44 | 0.48 | 1.3 |
| 5/3/2015 17:35:35 | 47.24 | 45.44 | 17 | 2.29 | 0.48 | 0.9 |
| 5/3/2015 17:35:50 | 47.57 | 45.77 | 23 | 2.59 | 0.48 | 1.3 |
| 5/3/2015 17:36:00 | 47.79 | 45.99 | 20 | 2.40 | 0.48 | 1.1 |

## P197 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:33:12

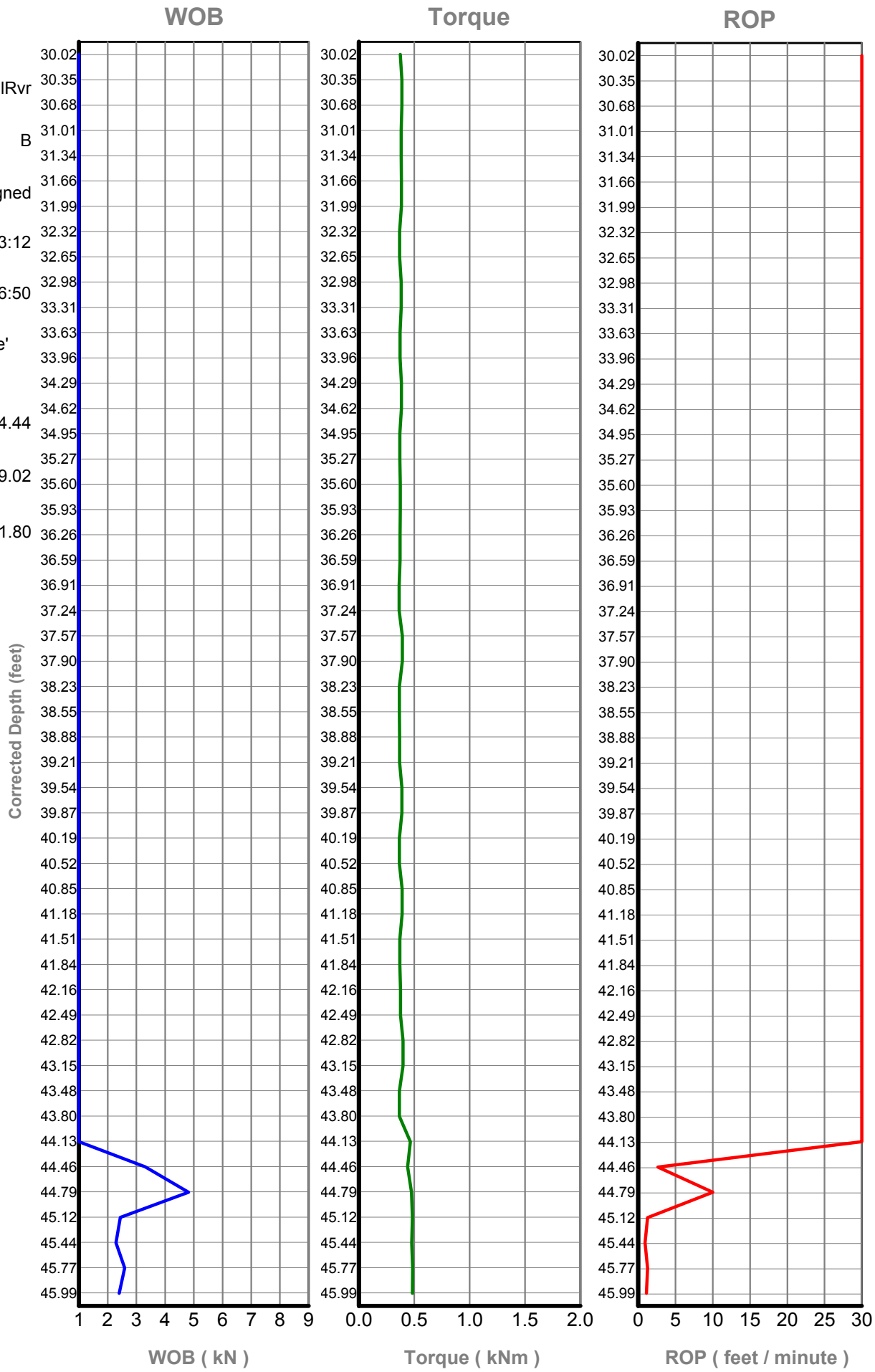
**End Date:**
5/3/2015 17:36:50

**Operator Note:**
'1.8 2.0 b Auto Complete'

**Northing:**
348,684.44

**Easting:**
224,539.02

**Tide (feet):**
1.80



## Hole: P198 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:34:26 | 31.82 | 30.02 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:34:27 | 32.15 | 30.35 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:34:27 | 32.48 | 30.68 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 17:34:27 | 32.81 | 31.01 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:34:28 | 33.14 | 31.34 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 17:34:28 | 33.46 | 31.66 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:34:29 | 33.79 | 31.99 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 17:34:29 | 34.12 | 32.32 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 17:34:29 | 34.45 | 32.65 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 17:34:29 | 34.78 | 32.98 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 17:34:30 | 35.11 | 33.31 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:30 | 35.43 | 33.63 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:30 | 35.76 | 33.96 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:31 | 36.09 | 34.29 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:31 | 36.42 | 34.62 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:31 | 36.75 | 34.95 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:32 | 37.07 | 35.27 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:32 | 37.40 | 35.60 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:34:32 | 37.73 | 35.93 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:34:32 | 38.06 | 36.26 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:33 | 38.39 | 36.59 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:34:33 | 38.71 | 36.91 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 17:34:33 | 39.04 | 37.24 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:34:34 | 39.37 | 37.57 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:34:34 | 39.70 | 37.90 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:34 | 40.03 | 38.23 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:34 | 40.35 | 38.55 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 17:34:35 | 40.68 | 38.88 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:34:35 | 41.01 | 39.21 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:34:35 | 41.34 | 39.54 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:36 | 41.67 | 39.87 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:34:36 | 41.99 | 40.19 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:34:36 | 42.32 | 40.52 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:34:37 | 42.65 | 40.85 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:34:37 | 42.98 | 41.18 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 17:34:37 | 43.31 | 41.51 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 17:34:37 | 43.64 | 41.84 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 17:34:38 | 43.96 | 42.16 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 17:34:38 | 44.29 | 42.49 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 17:34:38 | 44.62 | 42.82 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 17:34:39 | 44.95 | 43.15 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 17:34:39 | 45.28 | 43.48 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 17:34:57 | 45.60 | 43.80 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 17:34:57 | 45.93 | 44.13 | 106 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 17:34:58 | 46.26 | 44.46 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 17:34:58 | 46.59 | 44.79 | 332 | 1.14 | 0.29 | 18.2 |
| 5/3/2015 17:34:59 | 46.92 | 45.12 | 526 | 1.14 | 0.29 | 28.8 |
| 5/3/2015 17:35:19 | 47.24 | 45.44 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 17:35:19 | 47.57 | 45.77 | 174 | 1.14 | 0.29 | 9.5 |
| 5/3/2015 17:35:20 | 47.90 | 46.10 | 317 | 1.14 | 0.29 | 17.3 |
| 5/3/2015 17:35:21 | 48.23 | 46.43 | 394 | 1.14 | 0.29 | 21.6 |
| 5/3/2015 17:35:22 | 48.56 | 46.76 | 441 | 1.14 | 0.29 | 24.1 |
| 5/3/2015 17:35:56 | 48.88 | 47.08 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 17:35:57 | 49.21 | 47.41 | 176 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 17:35:58 | 49.54 | 47.74 | 294 | 1.14 | 0.29 | 16.1 |
| 5/3/2015 17:35:59 | 49.87 | 48.07 | 305 | 1.14 | 0.29 | 16.7 |
| 5/3/2015 17:36:00 | 50.20 | 48.40 | 374 | 1.14 | 0.29 | 20.4 |
| 5/3/2015 17:36:00 | 50.53 | 48.73 | 453 | 1.14 | 0.29 | 24.8 |
| 5/3/2015 17:36:23 | 50.85 | 49.05 | 31 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 17:36:24 | 51.18 | 49.38 | 167 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 17:36:25 | 51.51 | 49.71 | 384 | 1.14 | 0.29 | 21.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 17:36:25 | 51.84 | 50.04 | 484 | 1.14 | 0.29 | 26.5 |
| 5/3/2015 | 17:36:26 | 52.17 | 50.37 | 544 | 1.14 | 0.29 | 29.8 |
| 5/3/2015 | 17:36:36 | 52.49 | 50.69 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 17:36:40 | 52.82 | 51.02 | 94 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 | 17:36:40 | 53.15 | 51.35 | 173 | 1.14 | 0.29 | 9.5 |
| 5/3/2015 | 17:36:41 | 53.48 | 51.68 | 280 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 | 17:36:42 | 53.81 | 52.01 | 427 | 1.14 | 0.29 | 23.3 |
| 5/3/2015 | 17:36:43 | 54.13 | 52.33 | 417 | 1.14 | 0.29 | 22.8 |
| 5/3/2015 | 17:36:46 | 54.46 | 52.66 | 125 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 | 17:37:38 | 54.79 | 52.99 | 87 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 | 17:37:44 | 55.12 | 53.32 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 | 17:37:49 | 55.45 | 53.65 | 81 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 | 17:38:03 | 55.77 | 53.97 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 17:38:20 | 56.05 | 54.25 | 17 | 1.14 | 0.29 | 1.0 |

## P198 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:33:16

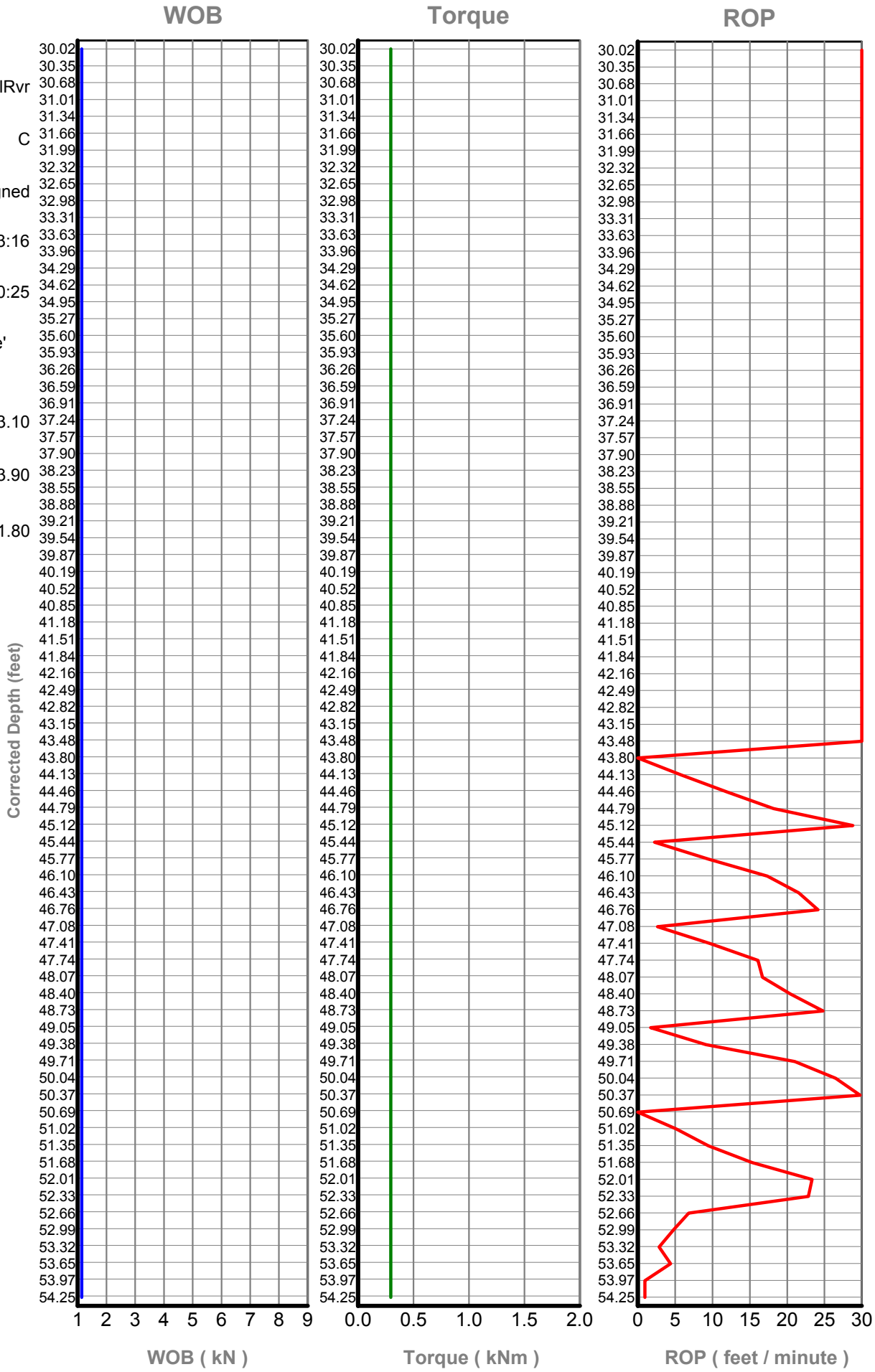
**End Date:**
5/3/2015 17:40:25

**Operator Note:**
'1.8 2.0 c Auto Complete'

**Northing:**
348,723.10

**Easting:**
224,603.90

**Tide (feet):**
1.80



## Hole: P199 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:22:46 | 36.09 | 30.09 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:22:46 | 36.42 | 30.42 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 13:22:47 | 36.75 | 30.75 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 13:22:47 | 37.07 | 31.07 | 990 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 13:22:47 | 37.40 | 31.40 | 984 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 13:22:48 | 37.73 | 31.73 | 990 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 13:22:48 | 38.06 | 32.06 | 990 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 13:22:48 | 38.39 | 32.39 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 13:22:49 | 38.71 | 32.71 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 13:22:49 | 39.04 | 33.04 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 13:22:49 | 39.37 | 33.37 | 983 | 0.54 | 0.17 | 53.7 |
| 5/3/2015 13:22:50 | 39.70 | 33.70 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:50 | 40.03 | 34.03 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:51 | 40.35 | 34.35 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:51 | 40.68 | 34.68 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 13:22:51 | 41.01 | 35.01 | 983 | 0.54 | 0.17 | 53.7 |
| 5/3/2015 13:22:52 | 41.34 | 35.34 | 983 | 0.54 | 0.17 | 53.7 |
| 5/3/2015 13:22:52 | 41.67 | 35.67 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 13:22:52 | 41.99 | 35.99 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 13:22:53 | 42.32 | 36.32 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 13:22:53 | 42.65 | 36.65 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:54 | 42.98 | 36.98 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 13:22:54 | 43.31 | 37.31 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:55 | 43.64 | 37.64 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 13:22:55 | 43.96 | 37.96 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 13:22:55 | 44.29 | 38.29 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 13:22:56 | 44.62 | 38.62 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 13:22:56 | 44.95 | 38.95 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 13:22:56 | 45.28 | 39.28 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 13:22:57 | 45.60 | 39.60 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 13:22:57 | 45.93 | 39.93 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 13:22:57 | 46.26 | 40.26 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 13:22:58 | 46.59 | 40.59 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 13:22:58 | 46.92 | 40.92 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 13:22:58 | 47.24 | 41.24 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 13:22:59 | 47.57 | 41.57 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 13:22:59 | 47.90 | 41.90 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 13:23:00 | 48.23 | 42.23 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 13:23:00 | 48.56 | 42.56 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 13:23:00 | 48.88 | 42.88 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:23:01 | 49.21 | 43.21 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:23:01 | 49.54 | 43.54 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:01 | 49.87 | 43.87 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:02 | 50.20 | 44.20 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:02 | 50.53 | 44.53 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:02 | 50.85 | 44.85 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:03 | 51.18 | 45.18 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:23:13 | 51.51 | 45.51 | 56 | 0.54 | 0.17 | 3.1 |
| 5/3/2015 13:23:13 | 51.84 | 45.84 | 176 | 0.54 | 0.17 | 9.6 |
| 5/3/2015 13:23:14 | 52.17 | 46.17 | 339 | 0.54 | 0.17 | 18.6 |
| 5/3/2015 13:23:15 | 52.49 | 46.49 | 469 | 0.54 | 0.17 | 25.6 |
| 5/3/2015 13:23:18 | 52.82 | 46.82 | 223 | 0.54 | 0.17 | 12.2 |
| 5/3/2015 13:23:19 | 53.15 | 47.15 | 164 | 0.54 | 0.17 | 9.0 |
| 5/3/2015 13:23:21 | 53.48 | 47.48 | 239 | 0.54 | 0.17 | 13.1 |
| 5/3/2015 13:23:45 | 53.81 | 47.81 | 15 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 13:24:01 | 54.13 | 48.13 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 13:24:19 | 54.46 | 48.46 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 13:24:36 | 54.79 | 48.79 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 13:24:45 | 54.99 | 48.99 | 23 | 0.54 | 0.17 | 1.3 |

## P199 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:21:04

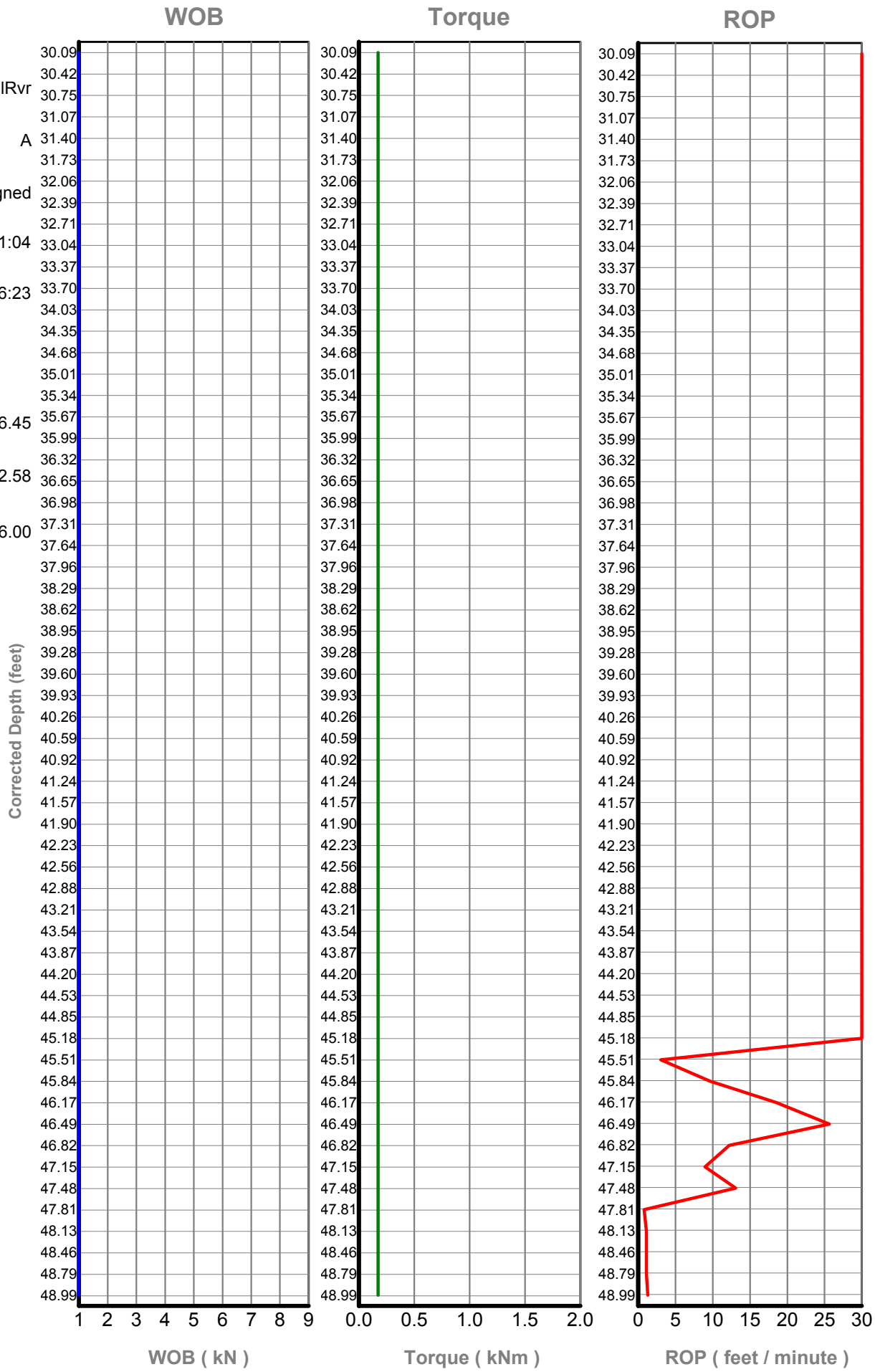
**End Date:**
5/3/2015 13:26:23

**Operator Note:**
'6 6.1 a Auto Complete'

**Northing:**
348,756.45

**Easting:**
224,672.58

**Tide (feet):**
6.00



## Hole: P20 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:52:57 | 32.15 | 30.15 | 1,125 | 0.34 | 0.39 | 61.5 |
| 5/3/2015 5:52:57 | 32.48 | 30.48 | 1,121 | 0.34 | 0.40 | 61.3 |
| 5/3/2015 5:52:58 | 32.81 | 30.81 | 1,121 | 0.34 | 0.40 | 61.3 |
| 5/3/2015 5:52:58 | 33.14 | 31.14 | 1,134 | 0.35 | 0.40 | 62.0 |
| 5/3/2015 5:52:58 | 33.46 | 31.46 | 1,127 | 0.34 | 0.39 | 61.6 |
| 5/3/2015 5:52:59 | 33.79 | 31.79 | 1,127 | 0.34 | 0.39 | 61.6 |
| 5/3/2015 5:52:59 | 34.12 | 32.12 | 1,133 | 0.34 | 0.40 | 62.0 |
| 5/3/2015 5:52:59 | 34.45 | 32.45 | 1,133 | 0.34 | 0.40 | 62.0 |
| 5/3/2015 5:52:59 | 34.78 | 32.78 | 1,136 | 0.34 | 0.40 | 62.1 |
| 5/3/2015 5:53:00 | 35.11 | 33.11 | 1,136 | 0.34 | 0.39 | 62.1 |
| 5/3/2015 5:53:01 | 35.43 | 33.43 | 1,136 | 0.34 | 0.39 | 62.1 |
| 5/3/2015 5:53:01 | 35.76 | 33.76 | 1,136 | 0.34 | 0.40 | 62.1 |
| 5/3/2015 5:53:01 | 36.09 | 34.09 | 1,136 | 0.34 | 0.40 | 62.1 |
| 5/3/2015 5:53:01 | 36.42 | 34.42 | 1,133 | 0.34 | 0.40 | 62.0 |
| 5/3/2015 5:53:02 | 36.75 | 34.75 | 1,123 | 0.35 | 0.40 | 61.4 |
| 5/3/2015 5:53:02 | 37.07 | 35.07 | 1,123 | 0.35 | 0.40 | 61.4 |
| 5/3/2015 5:53:02 | 37.40 | 35.40 | 1,133 | 0.37 | 0.39 | 62.0 |
| 5/3/2015 5:53:03 | 37.73 | 35.73 | 1,133 | 0.37 | 0.39 | 62.0 |
| 5/3/2015 5:53:03 | 38.06 | 36.06 | 1,133 | 0.34 | 0.40 | 62.0 |
| 5/3/2015 5:53:03 | 38.39 | 36.39 | 1,133 | 0.35 | 0.40 | 62.0 |
| 5/3/2015 5:53:04 | 38.71 | 36.71 | 1,133 | 0.35 | 0.40 | 62.0 |
| 5/3/2015 5:53:04 | 39.04 | 37.04 | 1,133 | 0.34 | 0.39 | 61.9 |
| 5/3/2015 5:53:04 | 39.37 | 37.37 | 1,133 | 0.34 | 0.39 | 61.9 |
| 5/3/2015 5:53:04 | 39.70 | 37.70 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:05 | 40.03 | 38.03 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:05 | 40.35 | 38.35 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:05 | 40.68 | 38.68 | 1,148 | 0.34 | 0.40 | 62.8 |
| 5/3/2015 5:53:06 | 41.01 | 39.01 | 1,148 | 0.34 | 0.40 | 62.8 |
| 5/3/2015 5:53:06 | 41.34 | 39.34 | 1,144 | 0.35 | 0.39 | 62.6 |
| 5/3/2015 5:53:06 | 41.67 | 39.67 | 1,160 | 0.35 | 0.40 | 63.4 |
| 5/3/2015 5:53:07 | 41.99 | 39.99 | 1,160 | 0.35 | 0.40 | 63.4 |
| 5/3/2015 5:53:07 | 42.32 | 40.32 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:07 | 42.65 | 40.65 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:07 | 42.98 | 40.98 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:08 | 43.31 | 41.31 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:08 | 43.64 | 41.64 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:08 | 43.96 | 41.96 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:09 | 44.29 | 42.29 | 1,148 | 0.35 | 0.39 | 62.8 |
| 5/3/2015 5:53:09 | 44.62 | 42.62 | 1,148 | 0.34 | 0.39 | 62.8 |
| 5/3/2015 5:53:09 | 44.95 | 42.95 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:10 | 45.28 | 43.28 | 1,148 | 0.35 | 0.40 | 62.8 |
| 5/3/2015 5:53:10 | 45.60 | 43.60 | 1,141 | 0.32 | 0.41 | 62.4 |
| 5/3/2015 5:53:11 | 45.93 | 43.93 | 1,115 | 0.30 | 0.49 | 61.0 |
| 5/3/2015 5:53:23 | 46.26 | 44.26 | 14 | 3.32 | 0.42 | 0.8 |
| 5/3/2015 5:53:24 | 46.59 | 44.59 | 164 | 3.47 | 0.46 | 9.0 |
| 5/3/2015 5:53:24 | 46.92 | 44.92 | 164 | 3.68 | 0.44 | 9.0 |
| 5/3/2015 5:53:25 | 47.24 | 45.24 | 299 | 3.03 | 0.46 | 16.3 |
| 5/3/2015 5:53:26 | 47.57 | 45.57 | 436 | 3.53 | 0.47 | 23.8 |
| 5/3/2015 5:53:29 | 47.90 | 45.90 | 129 | 4.47 | 0.50 | 7.0 |
| 5/3/2015 5:53:35 | 48.23 | 46.23 | 58 | 6.68 | 0.49 | 3.2 |
| 5/3/2015 5:54:06 | 48.56 | 46.56 | 72 | 3.27 | 0.49 | 4.0 |
| 5/3/2015 5:54:17 | 48.88 | 46.88 | 46 | 3.18 | 0.49 | 2.5 |
| 5/3/2015 5:54:32 | 49.21 | 47.21 | 0 | 3.43 | 0.47 | 0.0 |
| 5/3/2015 5:54:35 | 49.54 | 47.54 | 115 | 3.19 | 0.47 | 6.3 |
| 5/3/2015 5:54:47 | 49.87 | 47.87 | 9 | 3.78 | 0.48 | 0.5 |
| 5/3/2015 5:54:48 | 50.20 | 48.20 | 118 | 3.19 | 0.48 | 6.4 |
| 5/3/2015 5:54:50 | 50.53 | 48.53 | 213 | 3.31 | 0.48 | 11.6 |
| 5/3/2015 5:55:01 | 50.85 | 48.85 | 46 | 3.51 | 0.49 | 2.5 |
| 5/3/2015 5:55:10 | 51.18 | 49.18 | 55 | 3.66 | 0.49 | 3.0 |
| 5/3/2015 5:55:13 | 51.51 | 49.51 | 84 | 3.52 | 0.48 | 4.6 |
| 5/3/2015 5:55:22 | 51.84 | 49.84 | 55 | 3.35 | 0.47 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 5:55:25 | 52.17 | 50.17 | 101 | 3.19 | 0.47 | 5.5 |
| 5/3/2015 | 5:55:28 | 52.49 | 50.49 | 162 | 3.24 | 0.47 | 8.9 |
| 5/3/2015 | 5:55:29 | 52.82 | 50.82 | 205 | 2.69 | 0.44 | 11.2 |
| 5/3/2015 | 5:55:29 | 53.15 | 51.15 | 276 | 2.46 | 0.44 | 15.1 |
| 5/3/2015 | 5:55:37 | 53.48 | 51.48 | 6 | 3.28 | 0.45 | 0.3 |
| 5/3/2015 | 5:55:38 | 53.81 | 51.81 | 97 | 3.55 | 0.45 | 5.3 |
| 5/3/2015 | 5:55:38 | 54.13 | 52.13 | 194 | 3.48 | 0.45 | 10.6 |
| 5/3/2015 | 5:55:45 | 54.46 | 52.46 | 44 | 3.03 | 0.48 | 2.4 |
| 5/3/2015 | 5:55:48 | 54.79 | 52.79 | 104 | 3.16 | 0.47 | 5.7 |
| 5/3/2015 | 5:55:56 | 55.12 | 53.12 | 45 | 3.40 | 0.47 | 2.5 |
| 5/3/2015 | 5:56:03 | 55.45 | 53.45 | 31 | 3.66 | 0.48 | 1.7 |
| 5/3/2015 | 5:56:14 | 55.77 | 53.77 | 0 | 3.66 | 0.48 | 0.0 |
| 5/3/2015 | 5:56:23 | 56.10 | 54.10 | 0 | 3.07 | 0.45 | 0.0 |
| 5/3/2015 | 5:56:27 | 56.43 | 54.43 | 44 | 3.05 | 0.46 | 2.4 |
| 5/3/2015 | 5:56:28 | 56.76 | 54.76 | 161 | 2.79 | 0.45 | 8.8 |
| 5/3/2015 | 5:56:29 | 57.09 | 55.09 | 306 | 3.77 | 0.48 | 16.8 |
| 5/3/2015 | 5:56:32 | 57.41 | 55.41 | 107 | 3.08 | 0.47 | 5.9 |
| 5/3/2015 | 5:56:33 | 57.74 | 55.74 | 215 | 2.82 | 0.46 | 11.7 |
| 5/3/2015 | 5:56:34 | 58.04 | 56.04 | 245 | 3.01 | 0.46 | 13.4 |

## P20 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:51:32

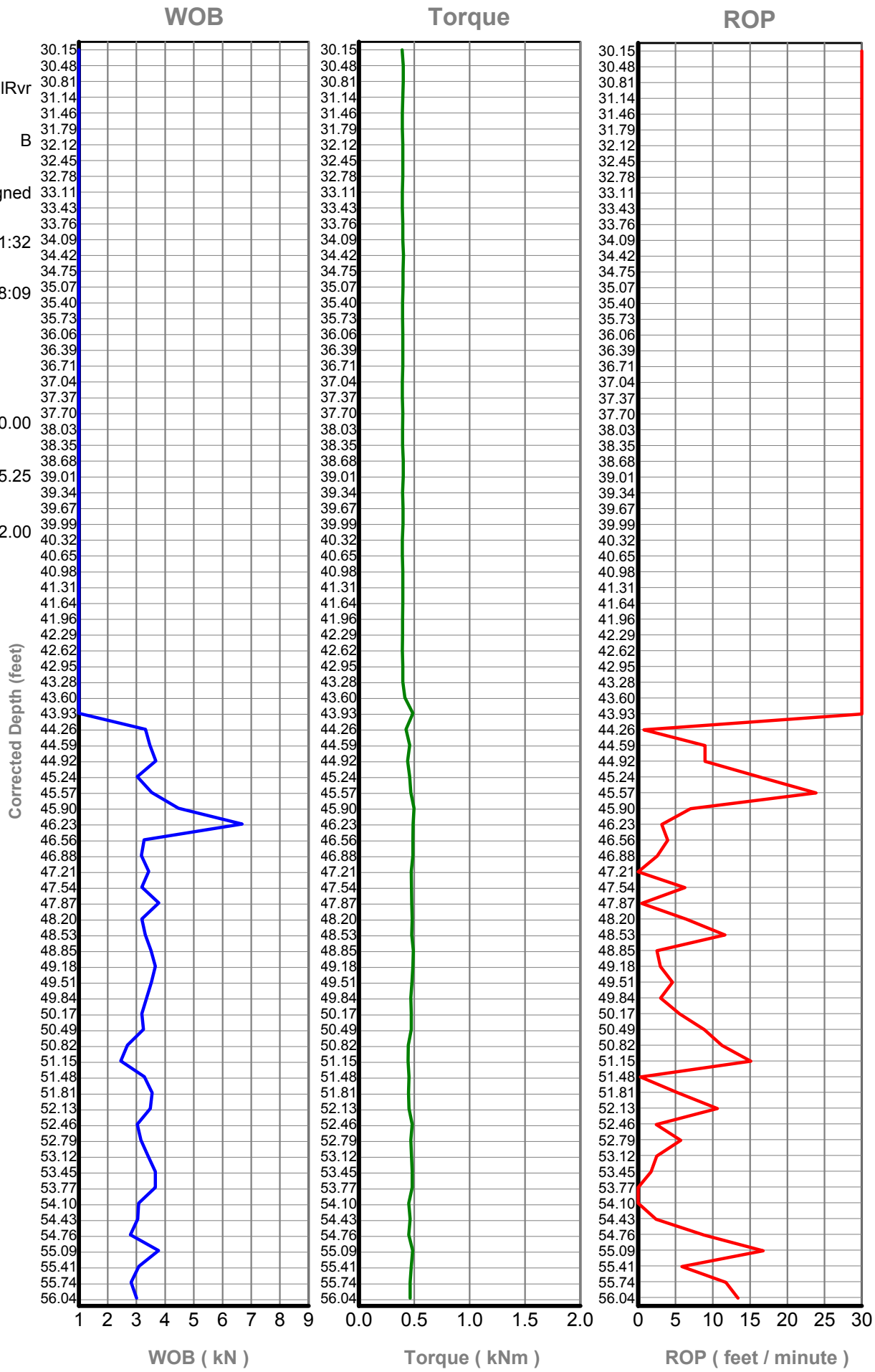
**End Date:**
5/3/2015 5:58:09

**Operator Note:**
'2 2.2b Auto Complete'

**Northing:**
349,360.00

**Easting:**
224,645.25

**Tide (feet):**
2.00



## Hole: P200 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:22:05 | 36.09 | 30.09 | 1,339 | 0.27 | 0.38 | 73.2 |
| 5/3/2015 13:22:05 | 36.42 | 30.42 | 1,339 | 0.27 | 0.38 | 73.2 |
| 5/3/2015 13:22:05 | 36.75 | 30.75 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 13:22:06 | 37.07 | 31.07 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 13:22:06 | 37.40 | 31.40 | 1,322 | 0.26 | 0.37 | 72.3 |
| 5/3/2015 13:22:06 | 37.73 | 31.73 | 1,322 | 0.26 | 0.37 | 72.3 |
| 5/3/2015 13:22:06 | 38.06 | 32.06 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 13:22:07 | 38.39 | 32.39 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 13:22:07 | 38.71 | 32.71 | 1,325 | 0.26 | 0.36 | 72.5 |
| 5/3/2015 13:22:07 | 39.04 | 33.04 | 1,325 | 0.26 | 0.36 | 72.5 |
| 5/3/2015 13:22:07 | 39.37 | 33.37 | 1,336 | 0.26 | 0.39 | 73.0 |
| 5/3/2015 13:22:08 | 39.70 | 33.70 | 1,336 | 0.26 | 0.39 | 73.0 |
| 5/3/2015 13:22:08 | 40.03 | 34.03 | 1,344 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 13:22:08 | 40.35 | 34.35 | 1,344 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 13:22:08 | 40.68 | 34.68 | 1,352 | 0.26 | 0.37 | 73.9 |
| 5/3/2015 13:22:09 | 41.01 | 35.01 | 1,352 | 0.26 | 0.37 | 73.9 |
| 5/3/2015 13:22:09 | 41.34 | 35.34 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:22:09 | 41.67 | 35.67 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:22:09 | 41.99 | 35.99 | 1,349 | 0.26 | 0.37 | 73.8 |
| 5/3/2015 13:22:10 | 42.32 | 36.32 | 1,349 | 0.26 | 0.37 | 73.8 |
| 5/3/2015 13:22:10 | 42.65 | 36.65 | 1,341 | 0.26 | 0.36 | 73.3 |
| 5/3/2015 13:22:10 | 42.98 | 36.98 | 1,341 | 0.26 | 0.36 | 73.3 |
| 5/3/2015 13:22:10 | 43.31 | 37.31 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:22:11 | 43.64 | 37.64 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:22:11 | 43.96 | 37.96 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 13:22:11 | 44.29 | 38.29 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 13:22:11 | 44.62 | 38.62 | 1,335 | 0.31 | 0.38 | 73.0 |
| 5/3/2015 13:22:12 | 44.95 | 38.95 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 13:22:12 | 45.28 | 39.28 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 13:22:13 | 45.60 | 39.60 | 1,321 | 0.29 | 0.37 | 72.2 |
| 5/3/2015 13:22:13 | 45.93 | 39.93 | 1,321 | 0.29 | 0.37 | 72.2 |
| 5/3/2015 13:22:13 | 46.26 | 40.26 | 1,315 | 0.28 | 0.37 | 71.9 |
| 5/3/2015 13:22:14 | 46.59 | 40.59 | 1,315 | 0.28 | 0.37 | 71.9 |
| 5/3/2015 13:22:14 | 46.92 | 40.92 | 1,315 | 0.27 | 0.37 | 71.9 |
| 5/3/2015 13:22:14 | 47.24 | 41.24 | 1,315 | 0.27 | 0.37 | 71.9 |
| 5/3/2015 13:22:14 | 47.57 | 41.57 | 1,312 | 0.26 | 0.37 | 71.8 |
| 5/3/2015 13:22:15 | 47.90 | 41.90 | 1,312 | 0.26 | 0.37 | 71.8 |
| 5/3/2015 13:22:15 | 48.23 | 42.23 | 1,324 | 0.22 | 0.38 | 72.4 |
| 5/3/2015 13:22:15 | 48.56 | 42.56 | 1,324 | 0.22 | 0.38 | 72.4 |
| 5/3/2015 13:22:15 | 48.88 | 42.88 | 1,306 | 0.26 | 0.39 | 71.4 |
| 5/3/2015 13:22:16 | 49.21 | 43.21 | 1,306 | 0.26 | 0.39 | 71.4 |
| 5/3/2015 13:22:16 | 49.54 | 43.54 | 1,316 | 0.26 | 0.39 | 72.0 |
| 5/3/2015 13:22:16 | 49.87 | 43.87 | 1,316 | 0.26 | 0.39 | 72.0 |
| 5/3/2015 13:22:16 | 50.20 | 44.20 | 1,317 | 0.32 | 0.37 | 72.0 |
| 5/3/2015 13:22:17 | 50.53 | 44.53 | 1,317 | 0.32 | 0.37 | 72.0 |
| 5/3/2015 13:22:17 | 50.85 | 44.85 | 1,330 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 13:22:17 | 51.18 | 45.18 | 1,330 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 13:22:24 | 51.51 | 45.51 | 0 | 4.00 | 0.44 | 0.0 |
| 5/3/2015 13:22:25 | 51.84 | 45.84 | 117 | 3.94 | 0.48 | 6.4 |
| 5/3/2015 13:22:30 | 52.17 | 46.17 | 40 | 2.12 | 0.42 | 2.2 |
| 5/3/2015 13:22:31 | 52.49 | 46.49 | 194 | 3.84 | 0.44 | 10.6 |
| 5/3/2015 13:22:37 | 52.82 | 46.82 | 0 | 3.41 | 0.45 | 0.0 |
| 5/3/2015 13:22:38 | 53.15 | 47.15 | 77 | 3.01 | 0.45 | 4.2 |
| 5/3/2015 13:22:42 | 53.48 | 47.48 | 0 | 4.31 | 0.51 | 0.0 |
| 5/3/2015 13:24:04 | 53.81 | 47.81 | 0 | 3.79 | 0.44 | 0.0 |
| 5/3/2015 13:24:04 | 54.13 | 48.13 | 63 | 4.10 | 0.45 | 3.4 |
| 5/3/2015 13:24:11 | 54.46 | 48.46 | 0 | 2.56 | 0.44 | 0.0 |
| 5/3/2015 13:24:11 | 54.79 | 48.79 | 94 | 2.46 | 0.46 | 5.1 |
| 5/3/2015 13:24:12 | 55.12 | 49.12 | 318 | 2.31 | 0.44 | 17.4 |
| 5/3/2015 13:24:17 | 55.45 | 49.45 | 51 | 3.75 | 0.49 | 2.8 |
| 5/3/2015 13:24:19 | 55.77 | 49.77 | 210 | 2.94 | 0.47 | 11.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 13:24:21 | 56.10 | 50.10 | 139 | 2.86 | 0.47 | 7.6 |
| 5/3/2015 | 13:24:27 | 56.43 | 50.43 | 46 | 2.73 | 0.49 | 2.5 |
| 5/3/2015 | 13:24:37 | 56.76 | 50.76 | 36 | 2.64 | 0.48 | 1.9 |
| 5/3/2015 | 13:24:46 | 57.09 | 51.09 | 44 | 2.67 | 0.48 | 2.4 |
| 5/3/2015 | 13:24:50 | 57.24 | 51.24 | 40 | 2.84 | 0.48 | 2.2 |

## P200 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:20:23

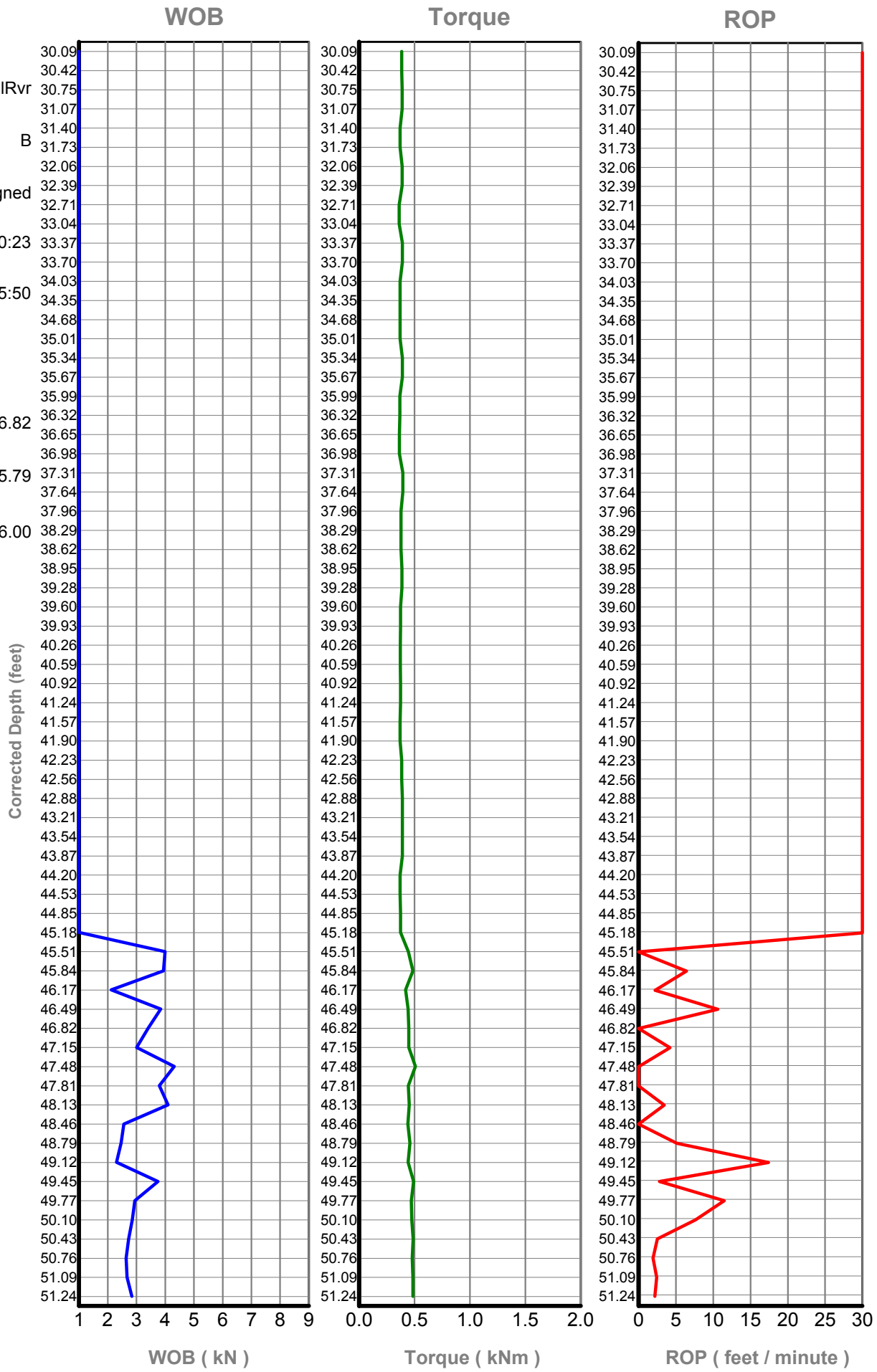
**End Date:**
5/3/2015 13:25:50

**Operator Note:**
'6 6.1 B Auto Complete'

**Northing:**
348,796.82

**Easting:**
224,735.79

**Tide (feet):**
6.00



## Hole: P201 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:21:41 | 36.09 | 30.09 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 13:21:41 | 36.42 | 30.42 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:21:41 | 36.75 | 30.75 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 13:21:41 | 37.07 | 31.07 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 13:21:42 | 37.40 | 31.40 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 13:21:42 | 37.73 | 31.73 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 13:21:42 | 38.06 | 32.06 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 13:21:43 | 38.39 | 32.39 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 13:21:43 | 38.71 | 32.71 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 13:21:44 | 39.04 | 33.04 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 13:21:44 | 39.37 | 33.37 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:44 | 39.70 | 33.70 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 13:21:45 | 40.03 | 34.03 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 13:21:45 | 40.35 | 34.35 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:45 | 40.68 | 34.68 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:45 | 41.01 | 35.01 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:46 | 41.34 | 35.34 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:46 | 41.67 | 35.67 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 13:21:46 | 41.99 | 35.99 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 13:21:47 | 42.32 | 36.32 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 13:21:47 | 42.65 | 36.65 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:21:47 | 42.98 | 36.98 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:21:47 | 43.31 | 37.31 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 13:21:48 | 43.64 | 37.64 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:21:48 | 43.96 | 37.96 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:21:48 | 44.29 | 38.29 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 13:21:49 | 44.62 | 38.62 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 13:21:49 | 44.95 | 38.95 | 1,162 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:21:49 | 45.28 | 39.28 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 13:21:50 | 45.60 | 39.60 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 13:21:50 | 45.93 | 39.93 | 1,144 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:21:50 | 46.26 | 40.26 | 1,144 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:21:50 | 46.59 | 40.59 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:21:51 | 46.92 | 40.92 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:21:51 | 47.24 | 41.24 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:21:51 | 47.57 | 41.57 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:21:52 | 47.90 | 41.90 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:21:52 | 48.23 | 42.23 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 13:21:52 | 48.56 | 42.56 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:21:53 | 48.88 | 42.88 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:21:53 | 49.21 | 43.21 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 13:21:53 | 49.54 | 43.54 | 1,175 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 13:21:53 | 49.87 | 43.87 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:22:08 | 50.20 | 44.20 | 37 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 13:22:09 | 50.53 | 44.53 | 172 | 1.14 | 0.29 | 9.4 |
| 5/3/2015 13:22:09 | 50.85 | 44.85 | 304 | 1.14 | 0.29 | 16.6 |
| 5/3/2015 13:22:10 | 51.18 | 45.18 | 431 | 1.14 | 0.29 | 23.6 |
| 5/3/2015 13:22:10 | 51.51 | 45.51 | 431 | 1.14 | 0.29 | 23.6 |
| 5/3/2015 13:22:11 | 51.84 | 45.84 | 568 | 1.14 | 0.29 | 31.1 |
| 5/3/2015 13:22:11 | 52.17 | 46.17 | 650 | 1.14 | 0.29 | 35.5 |
| 5/3/2015 13:22:12 | 52.49 | 46.49 | 663 | 1.14 | 0.29 | 36.3 |
| 5/3/2015 13:22:12 | 52.82 | 46.82 | 675 | 1.14 | 0.29 | 36.9 |
| 5/3/2015 13:22:41 | 53.15 | 47.15 | 54 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 13:23:03 | 53.48 | 47.48 | 116 | 1.14 | 0.29 | 6.3 |
| 5/3/2015 13:23:04 | 53.81 | 47.81 | 246 | 1.14 | 0.29 | 13.5 |
| 5/3/2015 13:23:13 | 54.13 | 48.13 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 13:23:14 | 54.46 | 48.46 | 204 | 1.14 | 0.29 | 11.2 |
| 5/3/2015 13:23:15 | 54.79 | 48.79 | 352 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 13:23:16 | 55.12 | 49.12 | 405 | 1.14 | 0.29 | 22.1 |
| 5/3/2015 13:23:16 | 55.45 | 49.45 | 474 | 1.14 | 0.29 | 25.9 |
| 5/3/2015 13:23:39 | 55.77 | 49.77 | 17 | 1.14 | 0.29 | 1.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 13:23:59 | 56.10 | 50.10 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 13:24:16 | 56.43 | 50.43 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 13:24:32 | 56.69 | 50.69 | 17 | 1.14 | 0.29 | 0.9 |

## P201 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:20:34

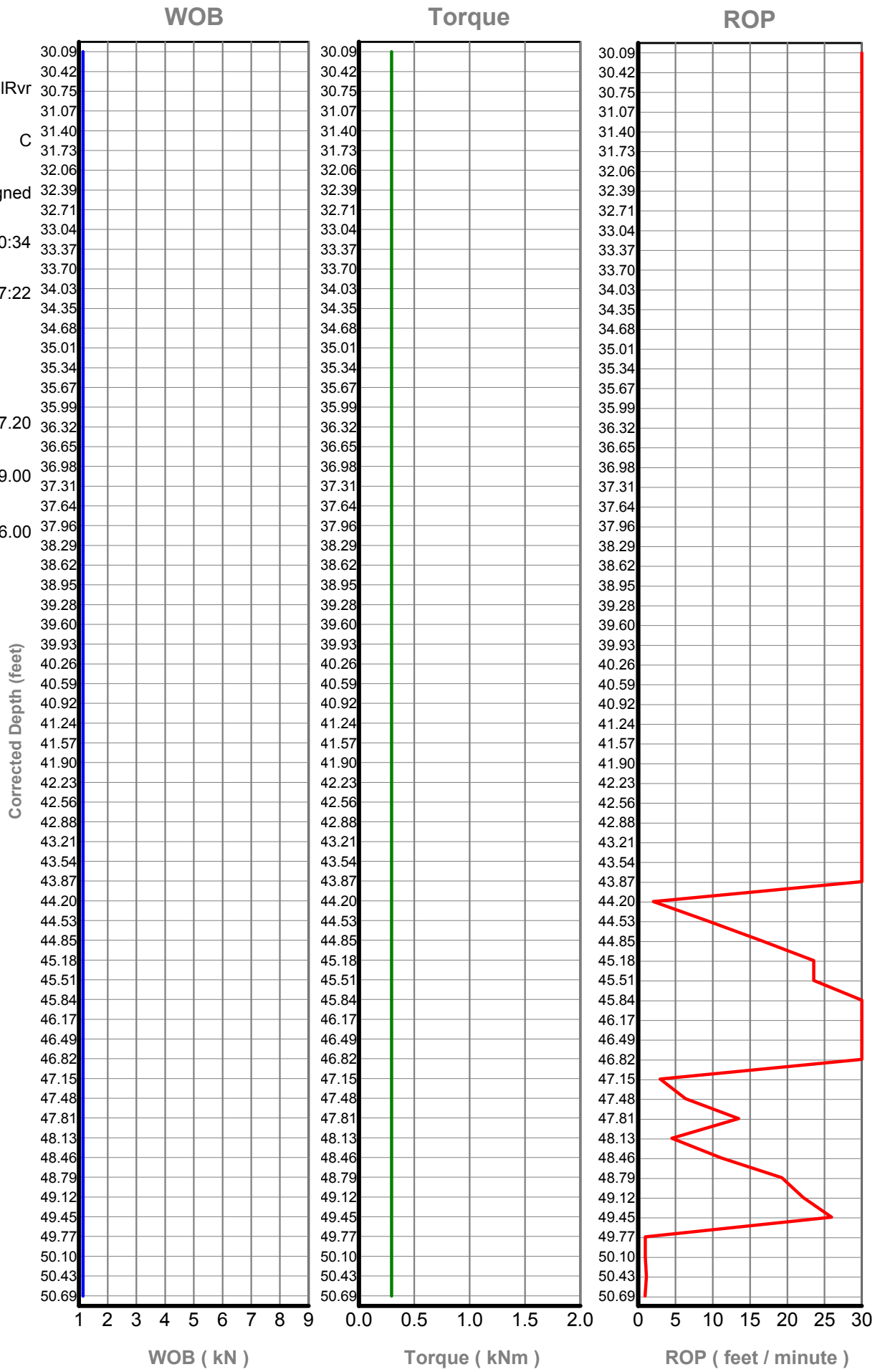
**End Date:**
5/3/2015 13:27:22

**Operator Note:**
'6 6.1 c Auto Complete'

**Northing:**
348,837.20

**Easting:**
224,799.00

**Tide (feet):**
6.00



## Hole: P202 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:15:27 | 35.76 | 30.26 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:27 | 36.09 | 30.59 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:15:28 | 36.42 | 30.92 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:15:28 | 36.75 | 31.25 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:15:28 | 37.07 | 31.57 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:15:29 | 37.40 | 31.90 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:15:29 | 37.73 | 32.23 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 11:15:29 | 38.06 | 32.56 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:15:30 | 38.39 | 32.89 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:15:30 | 38.71 | 33.21 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:15:31 | 39.04 | 33.54 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:15:31 | 39.37 | 33.87 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:15:31 | 39.70 | 34.20 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:15:32 | 40.03 | 34.53 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:32 | 40.35 | 34.85 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:32 | 40.68 | 35.18 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:33 | 41.01 | 35.51 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:33 | 41.34 | 35.84 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:33 | 41.67 | 36.17 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:15:34 | 41.99 | 36.49 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:15:34 | 42.32 | 36.82 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:35 | 42.65 | 37.15 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:15:35 | 42.98 | 37.48 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:15:35 | 43.31 | 37.81 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:15:36 | 43.64 | 38.14 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:15:36 | 43.96 | 38.46 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:15:37 | 44.29 | 38.79 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:15:37 | 44.62 | 39.12 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:15:38 | 44.95 | 39.45 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:15:38 | 45.28 | 39.78 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 11:15:38 | 45.60 | 40.10 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 11:15:39 | 45.93 | 40.43 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 11:15:39 | 46.26 | 40.76 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 11:15:39 | 46.59 | 41.09 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:15:40 | 46.92 | 41.42 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:40 | 47.24 | 41.74 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:41 | 47.57 | 42.07 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:41 | 47.90 | 42.40 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:41 | 48.23 | 42.73 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:42 | 48.56 | 43.06 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:15:42 | 48.88 | 43.38 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:15:42 | 49.21 | 43.71 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 11:15:43 | 49.54 | 44.04 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 11:15:49 | 49.87 | 44.37 | 100 | 0.54 | 0.17 | 5.5 |
| 5/3/2015 11:15:51 | 50.20 | 44.70 | 115 | 0.54 | 0.17 | 6.3 |
| 5/3/2015 11:15:53 | 50.53 | 45.03 | 117 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 11:15:56 | 50.85 | 45.35 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 11:15:58 | 51.18 | 45.68 | 154 | 0.54 | 0.17 | 8.4 |
| 5/3/2015 11:16:01 | 51.51 | 46.01 | 173 | 0.54 | 0.17 | 9.5 |
| 5/3/2015 11:16:05 | 51.84 | 46.34 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 11:16:08 | 52.17 | 46.67 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 11:16:09 | 52.49 | 46.99 | 86 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 11:16:10 | 52.82 | 47.32 | 263 | 0.54 | 0.17 | 14.4 |
| 5/3/2015 11:16:12 | 53.15 | 47.65 | 331 | 0.54 | 0.17 | 18.1 |
| 5/3/2015 11:16:15 | 53.48 | 47.98 | 57 | 0.54 | 0.17 | 3.1 |
| 5/3/2015 11:16:21 | 53.81 | 48.31 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 11:16:22 | 54.13 | 48.63 | 145 | 0.54 | 0.17 | 8.0 |
| 5/3/2015 11:16:24 | 54.46 | 48.96 | 282 | 0.54 | 0.17 | 15.4 |
| 5/3/2015 11:16:27 | 54.79 | 49.29 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 11:16:29 | 55.12 | 49.62 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 11:16:29 | 55.45 | 49.95 | 330 | 0.54 | 0.17 | 18.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:16:30 | 55.77 | 50.27 | 388 | 0.54 | 0.17 | 21.2 |
| 5/3/2015 11:16:31 | 56.10 | 50.60 | 477 | 0.54 | 0.17 | 26.1 |
| 5/3/2015 11:16:31 | 56.43 | 50.93 | 534 | 0.54 | 0.17 | 29.2 |
| 5/3/2015 11:16:38 | 56.76 | 51.26 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 11:16:52 | 57.09 | 51.59 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 11:17:07 | 57.41 | 51.91 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 11:17:21 | 57.74 | 52.24 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 11:17:37 | 58.07 | 52.57 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 11:18:41 | 58.14 | 52.64 | 0 | 0.54 | 0.17 | 0.0 |

## P202 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:14:04

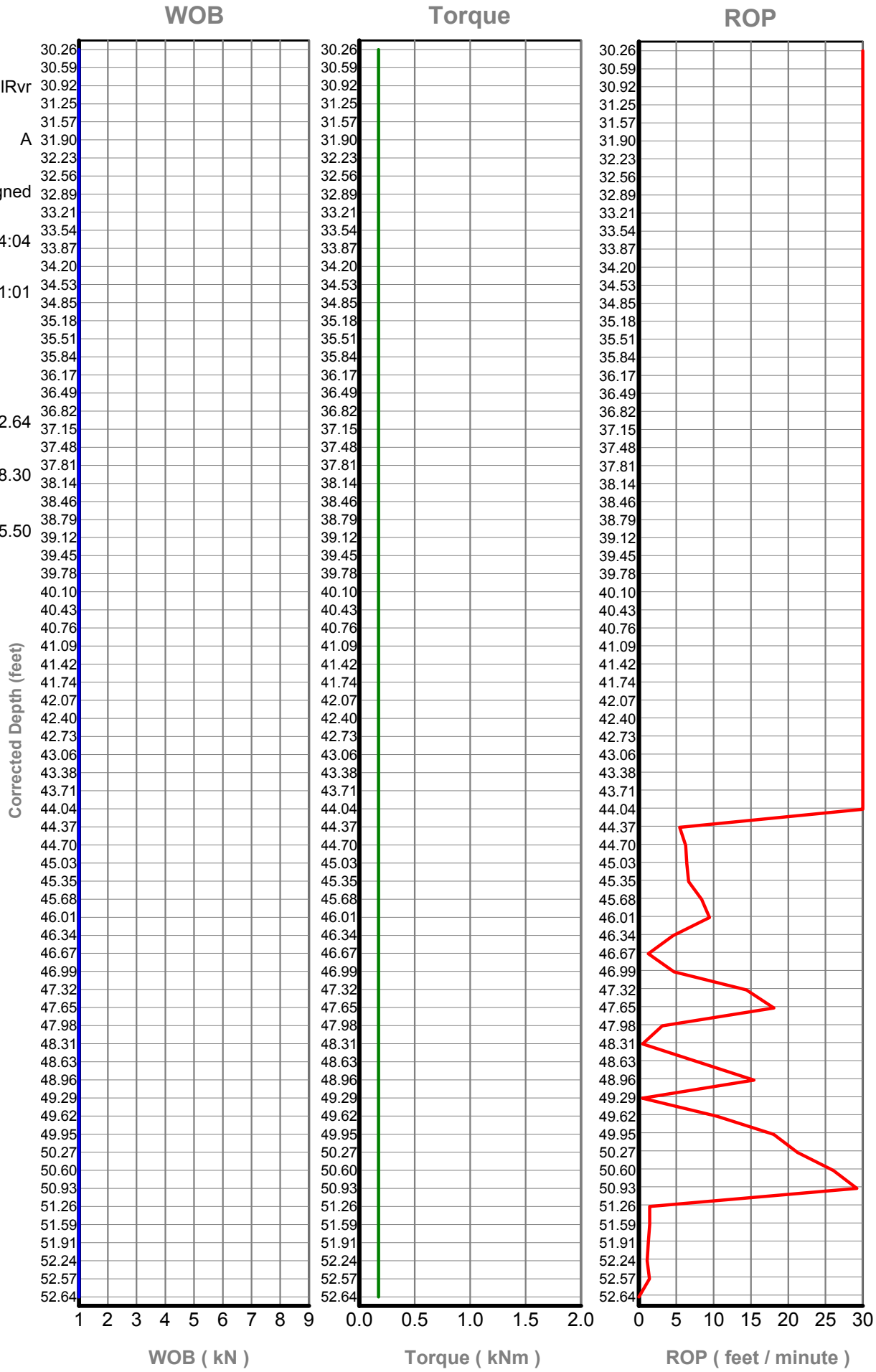
**End Date:**
5/3/2015 11:21:01

**Operator Note:**
'5.5 5.1 a Auto Complete'

**Northing:**
348,882.64

**Easting:**
224,858.30

**Tide (feet):**
5.50



## Hole: P203 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:15:24 | 35.76 | 30.26 | 1,347 | 0.27 | 0.37 | 73.7 |
| 5/3/2015 11:15:24 | 36.09 | 30.59 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 11:15:24 | 36.42 | 30.92 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 11:15:24 | 36.75 | 31.25 | 1,344 | 0.32 | 0.37 | 73.5 |
| 5/3/2015 11:15:25 | 37.07 | 31.57 | 1,344 | 0.32 | 0.37 | 73.5 |
| 5/3/2015 11:15:25 | 37.40 | 31.90 | 1,344 | 0.26 | 0.39 | 73.5 |
| 5/3/2015 11:15:25 | 37.73 | 32.23 | 1,344 | 0.26 | 0.39 | 73.5 |
| 5/3/2015 11:15:25 | 38.06 | 32.56 | 1,341 | 0.26 | 0.37 | 73.3 |
| 5/3/2015 11:15:26 | 38.39 | 32.89 | 1,341 | 0.26 | 0.37 | 73.3 |
| 5/3/2015 11:15:26 | 38.71 | 33.21 | 1,341 | 0.27 | 0.39 | 73.3 |
| 5/3/2015 11:15:26 | 39.04 | 33.54 | 1,341 | 0.27 | 0.39 | 73.3 |
| 5/3/2015 11:15:26 | 39.37 | 33.87 | 1,355 | 0.26 | 0.38 | 74.1 |
| 5/3/2015 11:15:27 | 39.70 | 34.20 | 1,341 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 11:15:27 | 40.03 | 34.53 | 1,341 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 11:15:27 | 40.35 | 34.85 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:28 | 40.68 | 35.18 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:28 | 41.01 | 35.51 | 1,333 | 0.27 | 0.37 | 72.9 |
| 5/3/2015 11:15:28 | 41.34 | 35.84 | 1,333 | 0.27 | 0.37 | 72.9 |
| 5/3/2015 11:15:28 | 41.67 | 36.17 | 1,344 | 0.27 | 0.37 | 73.5 |
| 5/3/2015 11:15:29 | 41.99 | 36.49 | 1,344 | 0.27 | 0.37 | 73.5 |
| 5/3/2015 11:15:29 | 42.32 | 36.82 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:30 | 42.65 | 37.15 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:30 | 42.98 | 37.48 | 1,341 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 11:15:30 | 43.31 | 37.81 | 1,341 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 11:15:30 | 43.64 | 38.14 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:31 | 43.96 | 38.46 | 1,341 | 0.26 | 0.38 | 73.4 |
| 5/3/2015 11:15:31 | 44.29 | 38.79 | 1,355 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 11:15:31 | 44.62 | 39.12 | 1,355 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 11:15:31 | 44.95 | 39.45 | 1,341 | 0.27 | 0.38 | 73.4 |
| 5/3/2015 11:15:32 | 45.28 | 39.78 | 1,341 | 0.27 | 0.38 | 73.4 |
| 5/3/2015 11:15:32 | 45.60 | 40.10 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:32 | 45.93 | 40.43 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:32 | 46.26 | 40.76 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:33 | 46.59 | 41.09 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:33 | 46.92 | 41.42 | 1,341 | 0.27 | 0.36 | 73.4 |
| 5/3/2015 11:15:33 | 47.24 | 41.74 | 1,341 | 0.27 | 0.36 | 73.4 |
| 5/3/2015 11:15:33 | 47.57 | 42.07 | 1,338 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 11:15:34 | 47.90 | 42.40 | 1,338 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 11:15:34 | 48.23 | 42.73 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:34 | 48.56 | 43.06 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:15:34 | 48.88 | 43.38 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 11:15:35 | 49.21 | 43.71 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 11:15:35 | 49.54 | 44.04 | 1,341 | 0.26 | 0.38 | 73.3 |
| 5/3/2015 11:15:35 | 49.87 | 44.37 | 1,341 | 0.26 | 0.38 | 73.3 |
| 5/3/2015 11:15:42 | 50.20 | 44.70 | 38 | 4.00 | 0.48 | 2.1 |
| 5/3/2015 11:15:46 | 50.53 | 45.03 | 76 | 1.97 | 0.43 | 4.2 |
| 5/3/2015 11:15:48 | 50.85 | 45.35 | 137 | 3.04 | 0.47 | 7.5 |
| 5/3/2015 11:15:51 | 51.18 | 45.68 | 163 | 3.48 | 0.46 | 8.9 |
| 5/3/2015 11:15:55 | 51.51 | 46.01 | 0 | 3.03 | 0.46 | 0.0 |
| 5/3/2015 11:16:01 | 51.84 | 46.34 | 93 | 4.72 | 0.55 | 5.1 |
| 5/3/2015 11:16:09 | 52.17 | 46.67 | 27 | 3.62 | 0.46 | 1.5 |
| 5/3/2015 11:16:10 | 52.49 | 46.99 | 141 | 3.56 | 0.46 | 7.7 |
| 5/3/2015 11:16:11 | 52.82 | 47.32 | 314 | 4.36 | 0.47 | 17.2 |
| 5/3/2015 11:16:12 | 53.15 | 47.65 | 367 | 2.90 | 0.46 | 20.1 |
| 5/3/2015 11:16:13 | 53.48 | 47.98 | 442 | 3.14 | 0.47 | 24.1 |
| 5/3/2015 11:16:31 | 53.81 | 48.31 | 0 | 3.24 | 0.46 | 0.0 |
| 5/3/2015 11:16:32 | 54.13 | 48.63 | 94 | 2.69 | 0.44 | 5.1 |
| 5/3/2015 11:16:33 | 54.46 | 48.96 | 214 | 2.57 | 0.44 | 11.7 |
| 5/3/2015 11:16:33 | 54.79 | 49.29 | 360 | 4.84 | 0.47 | 19.7 |
| 5/3/2015 11:16:35 | 55.12 | 49.62 | 461 | 3.30 | 0.48 | 25.2 |
| 5/3/2015 11:16:36 | 55.45 | 49.95 | 254 | 3.45 | 0.48 | 13.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:16:39 | 55.77 | 50.27 | 103 | 2.97 | 0.49 | 5.6 |
| 5/3/2015 11:16:49 | 56.10 | 50.60 | 32 | 2.57 | 0.49 | 1.7 |
| 5/3/2015 11:16:55 | 56.43 | 50.93 | 87 | 4.08 | 0.48 | 4.7 |
| 5/3/2015 11:16:57 | 56.76 | 51.26 | 139 | 3.65 | 0.47 | 7.6 |
| 5/3/2015 11:20:45 | 57.09 | 51.59 | 47 | 2.71 | 0.47 | 2.5 |
| 5/3/2015 11:20:51 | 57.41 | 51.91 | 51 | 2.75 | 0.49 | 2.8 |
| 5/3/2015 11:21:05 | 57.74 | 52.24 | 0 | 2.61 | 0.50 | 0.0 |
| 5/3/2015 11:21:10 | 58.07 | 52.57 | 96 | 2.75 | 0.47 | 5.2 |
| 5/3/2015 11:21:26 | 58.40 | 52.90 | 0 | 3.70 | 0.48 | 0.0 |
| 5/3/2015 11:21:35 | 58.73 | 53.23 | 63 | 3.52 | 0.48 | 3.5 |
| 5/3/2015 11:21:43 | 59.06 | 53.56 | 29 | 2.85 | 0.48 | 1.6 |
| 5/3/2015 11:21:48 | 59.17 | 53.67 | 20 | 2.29 | 0.46 | 1.1 |

## P203 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:10:19

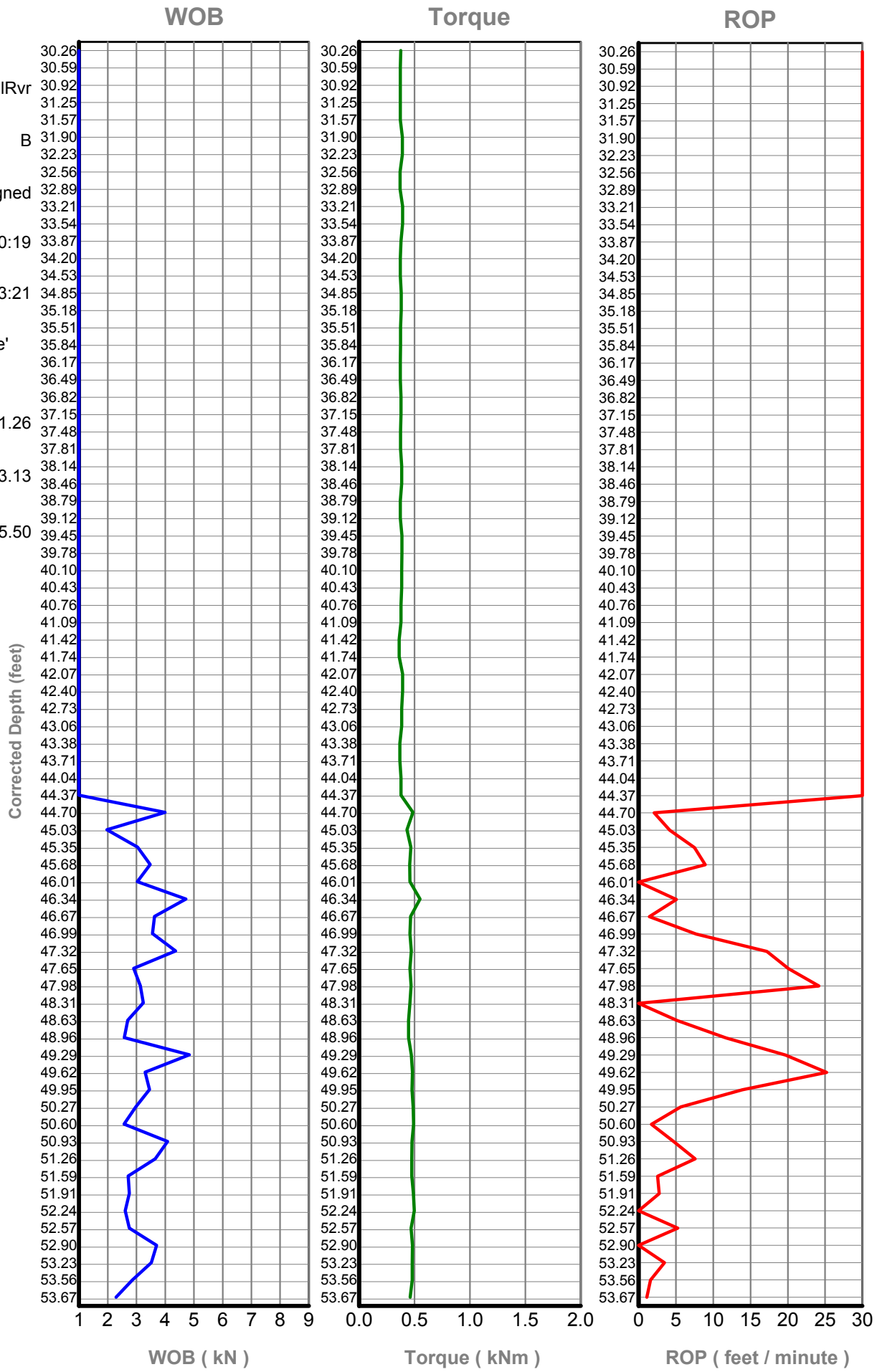
**End Date:**
5/3/2015 11:23:21

**Operator Note:**
'5.5 5.1 b Auto Complete'

**Northing:**
348,921.26

**Easting:**
224,923.13

**Tide (feet):**
5.50



## Hole: P204 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:14:38 | 35.76 | 30.26 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:14:39 | 36.09 | 30.59 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:14:39 | 36.42 | 30.92 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:39 | 36.75 | 31.25 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:39 | 37.07 | 31.57 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:40 | 37.40 | 31.90 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 11:14:40 | 37.73 | 32.23 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 11:14:40 | 38.06 | 32.56 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:14:41 | 38.39 | 32.89 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:14:41 | 38.71 | 33.21 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:14:41 | 39.04 | 33.54 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:14:42 | 39.37 | 33.87 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:14:42 | 39.70 | 34.20 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:14:42 | 40.03 | 34.53 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:14:42 | 40.35 | 34.85 | 1,140 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:14:43 | 40.68 | 35.18 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:14:43 | 41.01 | 35.51 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:14:43 | 41.34 | 35.84 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:14:44 | 41.67 | 36.17 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:14:44 | 41.99 | 36.49 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:45 | 42.32 | 36.82 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:14:45 | 42.65 | 37.15 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:14:45 | 42.98 | 37.48 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 11:14:46 | 43.31 | 37.81 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:46 | 43.64 | 38.14 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:46 | 43.96 | 38.46 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:47 | 44.29 | 38.79 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:47 | 44.62 | 39.12 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:14:47 | 44.95 | 39.45 | 1,131 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 11:14:48 | 45.28 | 39.78 | 1,131 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 11:14:48 | 45.60 | 40.10 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:48 | 45.93 | 40.43 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:48 | 46.26 | 40.76 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:49 | 46.59 | 41.09 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:14:49 | 46.92 | 41.42 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:14:49 | 47.24 | 41.74 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:14:50 | 47.57 | 42.07 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:14:50 | 47.90 | 42.40 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:14:50 | 48.23 | 42.73 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:51 | 48.56 | 43.06 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:51 | 48.88 | 43.38 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:51 | 49.21 | 43.71 | 1,126 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:14:52 | 49.54 | 44.04 | 1,126 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:14:52 | 49.87 | 44.37 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:14:52 | 50.20 | 44.70 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:15:07 | 50.53 | 45.03 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 11:15:08 | 50.85 | 45.35 | 150 | 1.14 | 0.29 | 8.2 |
| 5/3/2015 11:15:10 | 51.18 | 45.68 | 273 | 1.14 | 0.29 | 14.9 |
| 5/3/2015 11:15:10 | 51.51 | 46.01 | 327 | 1.14 | 0.29 | 17.9 |
| 5/3/2015 11:15:12 | 51.84 | 46.34 | 331 | 1.14 | 0.29 | 18.1 |
| 5/3/2015 11:15:13 | 52.17 | 46.67 | 342 | 1.14 | 0.29 | 18.7 |
| 5/3/2015 11:15:31 | 52.49 | 46.99 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 11:15:55 | 52.82 | 47.32 | 15 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 11:15:56 | 53.15 | 47.65 | 165 | 1.14 | 0.29 | 9.0 |
| 5/3/2015 11:15:56 | 53.48 | 47.98 | 165 | 1.14 | 0.29 | 9.0 |
| 5/3/2015 11:16:24 | 53.81 | 48.31 | 12 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 11:16:40 | 54.13 | 48.63 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 11:16:57 | 54.46 | 48.96 | 21 | 1.14 | 0.29 | 1.2 |
| 5/3/2015 11:17:14 | 54.79 | 49.29 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 11:17:29 | 55.11 | 49.61 | 23 | 1.14 | 0.29 | 1.3 |

## P204 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:13:33

**End Date:**
5/3/2015 11:18:54

**Operator Note:**
'5.5 5.1 c Auto Complete'

**Northing:**
348,959.90

**Easting:**
224,987.40

**Tide (feet):**
5.50



## Hole: P205 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:51:18 | 36.42 | 30.12 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:51:18 | 36.75 | 30.45 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:18 | 37.07 | 30.77 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:18 | 37.40 | 31.10 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:51:19 | 37.73 | 31.43 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:51:19 | 38.06 | 31.76 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:19 | 38.39 | 32.09 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:51:20 | 38.71 | 32.41 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:51:20 | 39.04 | 32.74 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 1:51:20 | 39.37 | 33.07 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 1:51:20 | 39.70 | 33.40 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:51:21 | 40.03 | 33.73 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:51:21 | 40.35 | 34.05 | 1,202 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:21 | 40.68 | 34.38 | 1,202 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:22 | 41.01 | 34.71 | 1,202 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:22 | 41.34 | 35.04 | 1,202 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:22 | 41.67 | 35.37 | 1,202 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:22 | 41.99 | 35.69 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/3/2015 1:51:23 | 42.32 | 36.02 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/3/2015 1:51:23 | 42.65 | 36.35 | 1,207 | 0.54 | 0.17 | 66.0 |
| 5/3/2015 1:51:23 | 42.98 | 36.68 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:24 | 43.31 | 37.01 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:24 | 43.64 | 37.34 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:51:25 | 43.96 | 37.66 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:51:25 | 44.29 | 37.99 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 1:51:25 | 44.62 | 38.32 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 1:51:25 | 44.95 | 38.65 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 1:51:26 | 45.28 | 38.98 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:26 | 45.60 | 39.30 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 1:51:26 | 45.93 | 39.63 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 1:51:27 | 46.26 | 39.96 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 1:51:27 | 46.59 | 40.29 | 1,202 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:51:27 | 46.92 | 40.62 | 1,202 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:51:27 | 47.24 | 40.94 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 1:51:28 | 47.57 | 41.27 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 1:51:28 | 47.90 | 41.60 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 1:51:28 | 48.23 | 41.93 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:29 | 48.56 | 42.26 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:29 | 48.88 | 42.58 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 1:51:29 | 49.21 | 42.91 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 1:51:29 | 49.54 | 43.24 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:30 | 49.87 | 43.57 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:30 | 50.20 | 43.90 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:30 | 50.53 | 44.23 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:31 | 50.85 | 44.55 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:31 | 51.18 | 44.88 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 1:51:31 | 51.51 | 45.21 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 1:51:32 | 51.84 | 45.54 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 1:51:32 | 52.17 | 45.87 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:32 | 52.49 | 46.19 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 1:51:38 | 52.82 | 46.52 | 14 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 1:51:39 | 53.15 | 46.85 | 161 | 0.54 | 0.17 | 8.8 |
| 5/3/2015 1:51:39 | 53.48 | 47.18 | 261 | 0.54 | 0.17 | 14.3 |
| 5/3/2015 1:51:48 | 53.81 | 47.51 | 80 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 1:51:52 | 54.13 | 47.83 | 32 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 1:52:05 | 54.46 | 48.16 | 32 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 1:52:18 | 54.79 | 48.49 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 1:52:32 | 55.12 | 48.82 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 1:52:34 | 55.17 | 48.87 | 26 | 0.54 | 0.17 | 1.4 |

## P205 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:50:04

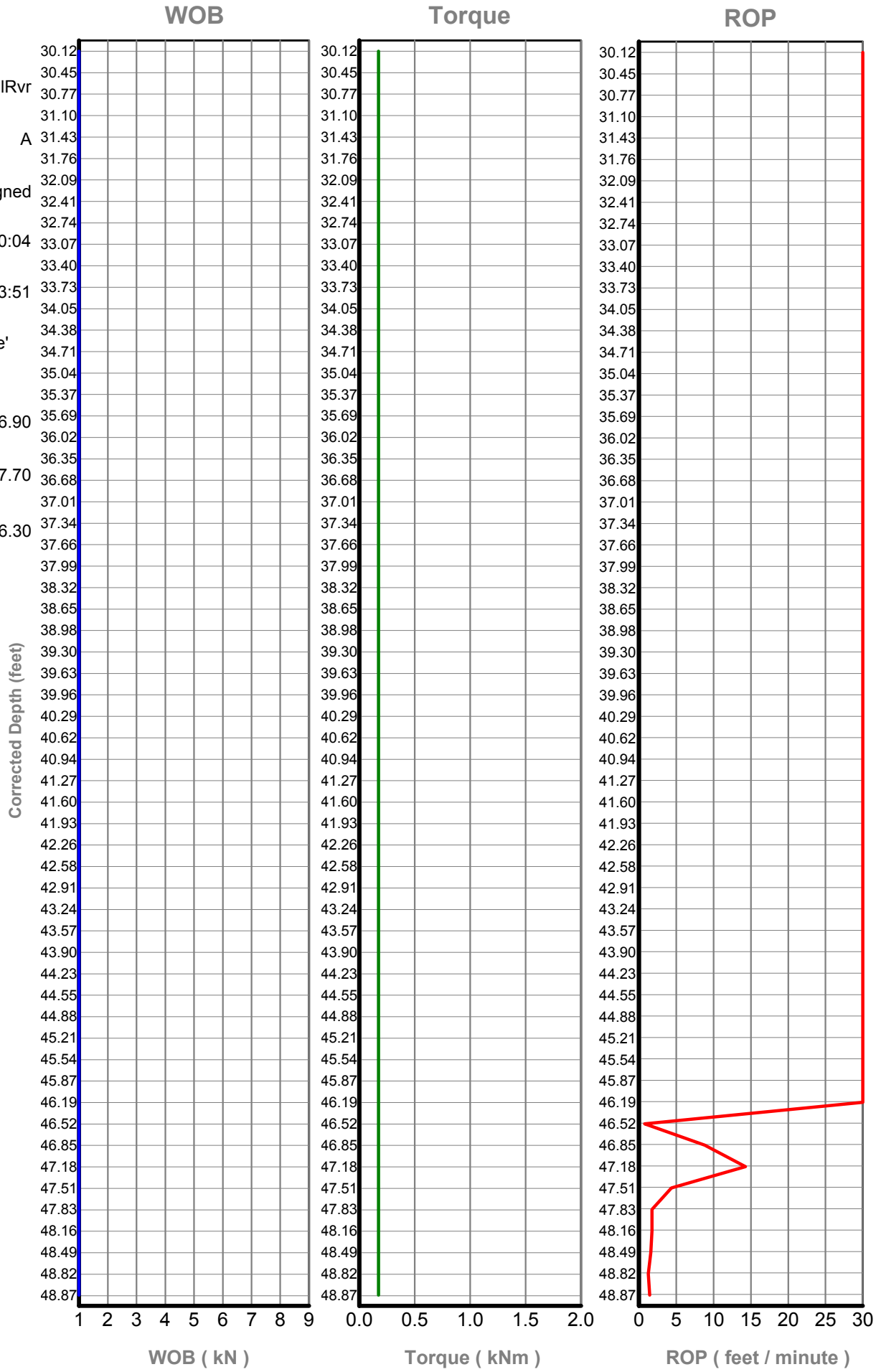
**End Date:**
5/3/2015 1:53:51

**Operator Note:**
'6.3 6.5 a Auto Complete'

**Northing:**
348,996.90

**Easting:**
225,047.70

**Tide (feet):**
6.30



## Hole: P206 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:49:06 | 36.42 | 30.12 | 1,255 | 0.30 | 0.38 | 68.6 |
| 5/3/2015 1:49:07 | 36.75 | 30.45 | 1,255 | 0.30 | 0.38 | 68.6 |
| 5/3/2015 1:49:07 | 37.07 | 30.77 | 1,258 | 0.30 | 0.39 | 68.8 |
| 5/3/2015 1:49:07 | 37.40 | 31.10 | 1,258 | 0.30 | 0.39 | 68.8 |
| 5/3/2015 1:49:07 | 37.73 | 31.43 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 1:49:08 | 38.06 | 31.76 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 1:49:08 | 38.39 | 32.09 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/3/2015 1:49:08 | 38.71 | 32.41 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 1:49:09 | 39.04 | 32.74 | 1,258 | 0.30 | 0.38 | 68.8 |
| 5/3/2015 1:49:09 | 39.37 | 33.07 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 1:49:10 | 39.70 | 33.40 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 1:49:10 | 40.03 | 33.73 | 1,259 | 0.32 | 0.39 | 68.8 |
| 5/3/2015 1:49:10 | 40.35 | 34.05 | 1,259 | 0.32 | 0.39 | 68.8 |
| 5/3/2015 1:49:10 | 40.68 | 34.38 | 1,269 | 0.30 | 0.38 | 69.4 |
| 5/3/2015 1:49:11 | 41.01 | 34.71 | 1,269 | 0.30 | 0.38 | 69.4 |
| 5/3/2015 1:49:11 | 41.34 | 35.04 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:49:11 | 41.67 | 35.37 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:49:11 | 41.99 | 35.69 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:49:12 | 42.32 | 36.02 | 1,250 | 0.30 | 0.38 | 68.4 |
| 5/3/2015 1:49:12 | 42.65 | 36.35 | 1,250 | 0.30 | 0.38 | 68.4 |
| 5/3/2015 1:49:12 | 42.98 | 36.68 | 1,255 | 0.30 | 0.39 | 68.7 |
| 5/3/2015 1:49:13 | 43.31 | 37.01 | 1,255 | 0.30 | 0.39 | 68.7 |
| 5/3/2015 1:49:13 | 43.64 | 37.34 | 1,239 | 0.30 | 0.38 | 67.7 |
| 5/3/2015 1:49:13 | 43.96 | 37.66 | 1,239 | 0.30 | 0.38 | 67.7 |
| 5/3/2015 1:49:13 | 44.29 | 37.99 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:49:14 | 44.62 | 38.32 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:49:14 | 44.95 | 38.65 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 1:49:14 | 45.28 | 38.98 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 1:49:14 | 45.60 | 39.30 | 1,234 | 0.30 | 0.38 | 67.5 |
| 5/3/2015 1:49:15 | 45.93 | 39.63 | 1,234 | 0.30 | 0.38 | 67.5 |
| 5/3/2015 1:49:15 | 46.26 | 39.96 | 1,234 | 0.30 | 0.38 | 67.5 |
| 5/3/2015 1:49:15 | 46.59 | 40.29 | 1,248 | 0.31 | 0.38 | 68.2 |
| 5/3/2015 1:49:16 | 46.92 | 40.62 | 1,248 | 0.31 | 0.38 | 68.2 |
| 5/3/2015 1:49:16 | 47.24 | 40.94 | 1,228 | 0.30 | 0.38 | 67.2 |
| 5/3/2015 1:49:16 | 47.57 | 41.27 | 1,228 | 0.30 | 0.38 | 67.2 |
| 5/3/2015 1:49:16 | 47.90 | 41.60 | 1,228 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:49:17 | 48.23 | 41.93 | 1,228 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:49:17 | 48.56 | 42.26 | 1,240 | 0.30 | 0.39 | 67.8 |
| 5/3/2015 1:49:17 | 48.88 | 42.58 | 1,240 | 0.30 | 0.39 | 67.8 |
| 5/3/2015 1:49:17 | 49.21 | 42.91 | 1,240 | 0.31 | 0.39 | 67.8 |
| 5/3/2015 1:49:18 | 49.54 | 43.24 | 1,250 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:49:18 | 49.87 | 43.57 | 1,250 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:49:18 | 50.20 | 43.90 | 1,250 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:49:19 | 50.53 | 44.23 | 1,250 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:49:19 | 50.85 | 44.55 | 1,243 | 0.31 | 0.39 | 68.0 |
| 5/3/2015 1:49:20 | 51.18 | 44.88 | 1,243 | 0.31 | 0.39 | 68.0 |
| 5/3/2015 1:49:19 | 51.51 | 45.21 | 1,224 | 0.31 | 0.39 | 66.9 |
| 5/3/2015 1:49:20 | 51.84 | 45.54 | 1,224 | 0.31 | 0.39 | 66.9 |
| 5/3/2015 1:49:20 | 52.17 | 45.87 | 1,224 | 0.30 | 0.40 | 66.9 |
| 5/3/2015 1:49:21 | 52.49 | 46.19 | 1,254 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 1:49:21 | 52.82 | 46.52 | 1,254 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 1:49:21 | 53.15 | 46.85 | 1,261 | 0.29 | 0.42 | 68.9 |
| 5/3/2015 1:49:22 | 53.48 | 47.18 | 1,261 | 0.29 | 0.42 | 68.9 |
| 5/3/2015 1:49:35 | 53.81 | 47.51 | 66 | 3.57 | 0.46 | 3.6 |
| 5/3/2015 1:49:43 | 54.13 | 47.83 | 64 | 4.24 | 0.46 | 3.5 |
| 5/3/2015 1:49:44 | 54.46 | 48.16 | 177 | 4.72 | 0.47 | 9.7 |
| 5/3/2015 1:49:45 | 54.79 | 48.49 | 226 | 4.64 | 0.46 | 12.3 |
| 5/3/2015 1:49:47 | 55.12 | 48.82 | 303 | 5.48 | 0.48 | 16.6 |
| 5/3/2015 1:49:48 | 55.45 | 49.15 | 232 | 4.28 | 0.46 | 12.7 |
| 5/3/2015 1:49:49 | 55.77 | 49.47 | 259 | 4.13 | 0.47 | 14.2 |
| 5/3/2015 1:49:50 | 56.10 | 49.80 | 314 | 4.11 | 0.46 | 17.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:49:52 | 56.43 | 50.13 | 345 | 6.01 | 0.46 | 18.8 |
| 5/3/2015 | 1:49:52 | 56.76 | 50.46 | 373 | 3.02 | 0.44 | 20.4 |
| 5/3/2015 | 1:49:53 | 57.09 | 50.79 | 426 | 3.00 | 0.45 | 23.3 |
| 5/3/2015 | 1:49:54 | 57.41 | 51.11 | 410 | 3.39 | 0.47 | 22.4 |
| 5/3/2015 | 1:49:56 | 57.74 | 51.44 | 242 | 2.76 | 0.49 | 13.3 |
| 5/3/2015 | 1:50:00 | 58.07 | 51.77 | 65 | 3.40 | 0.48 | 3.6 |
| 5/3/2015 | 1:50:06 | 58.40 | 52.10 | 62 | 2.98 | 0.49 | 3.4 |
| 5/3/2015 | 1:50:11 | 58.73 | 52.43 | 76 | 2.93 | 0.49 | 4.2 |
| 5/3/2015 | 1:50:19 | 59.06 | 52.76 | 46 | 3.07 | 0.48 | 2.5 |
| 5/3/2015 | 1:50:27 | 59.38 | 53.08 | 40 | 2.88 | 0.49 | 2.2 |
| 5/3/2015 | 1:50:37 | 59.71 | 53.41 | 38 | 2.90 | 0.49 | 2.1 |
| 5/3/2015 | 1:50:40 | 59.84 | 53.54 | 37 | 2.99 | 0.49 | 2.0 |

## P206 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:47:40

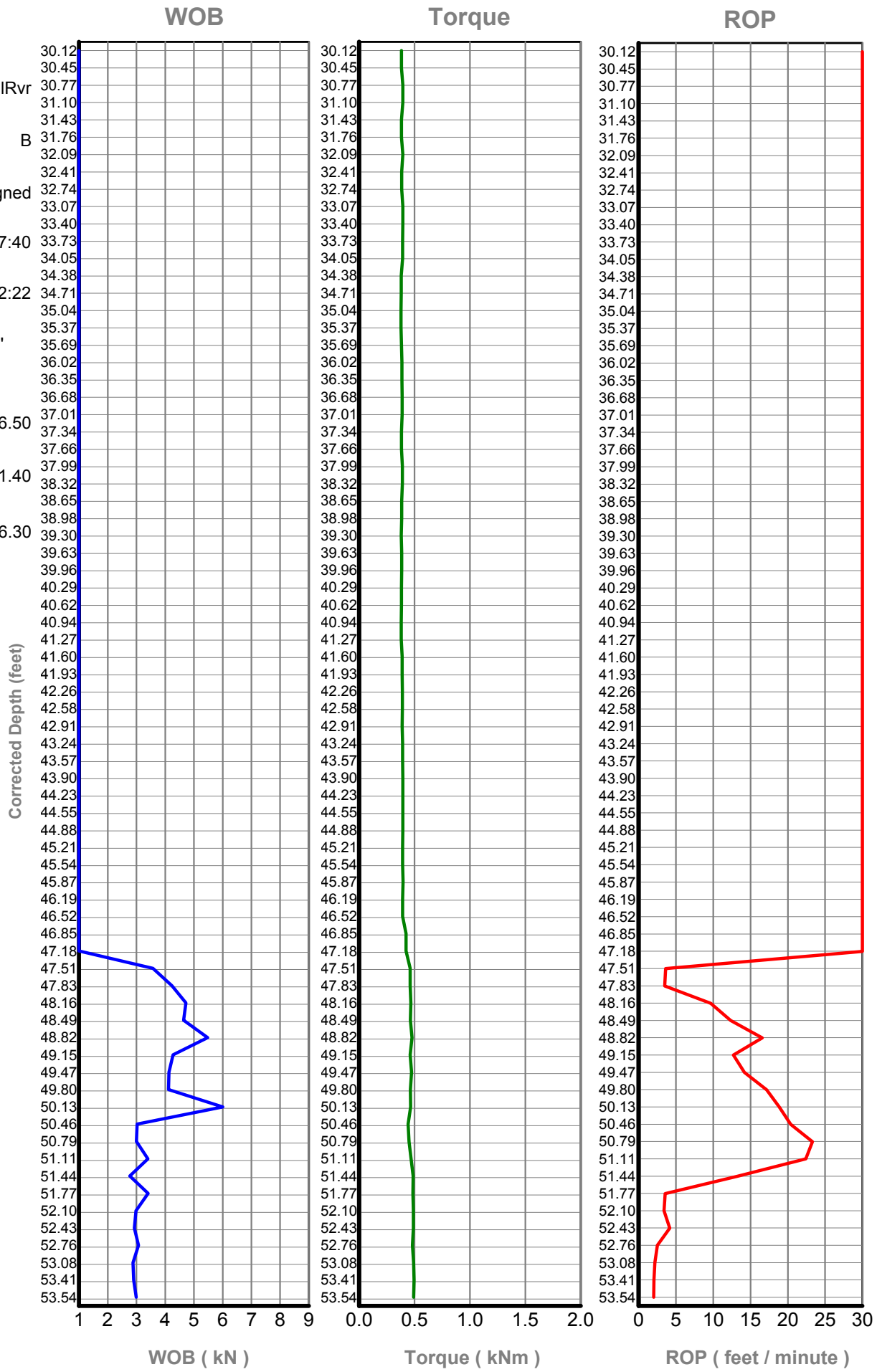
**End Date:**
5/3/2015 1:52:22

**Operator Note:**
'6.3 6.5b Auto Complete'

**Northing:**
349,036.50

**Easting:**
225,111.40

**Tide (feet):**
6.30



## Hole: P207 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:47:36 | 36.42 | 30.12 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:36 | 36.75 | 30.45 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:36 | 37.07 | 30.77 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:37 | 37.40 | 31.10 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:37 | 37.73 | 31.43 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:37 | 38.06 | 31.76 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:47:38 | 38.39 | 32.09 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:38 | 38.71 | 32.41 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:38 | 39.04 | 32.74 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:39 | 39.37 | 33.07 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 1:47:39 | 39.70 | 33.40 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 1:47:39 | 40.03 | 33.73 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 1:47:40 | 40.35 | 34.05 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:40 | 40.68 | 34.38 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:40 | 41.01 | 34.71 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:41 | 41.34 | 35.04 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 1:47:41 | 41.67 | 35.37 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 1:47:41 | 41.99 | 35.69 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:42 | 42.32 | 36.02 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:42 | 42.65 | 36.35 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:47:42 | 42.98 | 36.68 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:47:43 | 43.31 | 37.01 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:43 | 43.64 | 37.34 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:43 | 43.96 | 37.66 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:44 | 44.29 | 37.99 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:45 | 44.62 | 38.32 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:45 | 44.95 | 38.65 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 1:47:45 | 45.28 | 38.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:46 | 45.60 | 39.30 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:46 | 45.93 | 39.63 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 1:47:46 | 46.26 | 39.96 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:47 | 46.59 | 40.29 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:47 | 46.92 | 40.62 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:47 | 47.24 | 40.94 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:48 | 47.57 | 41.27 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:47:48 | 47.90 | 41.60 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:47:48 | 48.23 | 41.93 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:47:49 | 48.56 | 42.26 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:47:49 | 48.88 | 42.58 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:47:49 | 49.21 | 42.91 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:47:50 | 49.54 | 43.24 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:47:50 | 49.87 | 43.57 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:47:50 | 50.20 | 43.90 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:51 | 50.53 | 44.23 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:47:51 | 50.85 | 44.55 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 1:47:51 | 51.18 | 44.88 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 1:47:51 | 51.51 | 45.21 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 1:47:52 | 51.84 | 45.54 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 1:47:52 | 52.17 | 45.87 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 1:47:52 | 52.49 | 46.19 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 1:47:53 | 52.82 | 46.52 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:48:20 | 53.15 | 46.85 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 1:48:26 | 53.48 | 47.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 1:48:32 | 53.81 | 47.51 | 50 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 1:48:33 | 54.13 | 47.83 | 224 | 1.14 | 0.29 | 12.3 |
| 5/3/2015 1:48:34 | 54.46 | 48.16 | 348 | 1.14 | 0.29 | 19.0 |
| 5/3/2015 1:48:34 | 54.79 | 48.49 | 348 | 1.14 | 0.29 | 19.0 |
| 5/3/2015 1:48:35 | 55.12 | 48.82 | 483 | 1.14 | 0.29 | 26.4 |
| 5/3/2015 1:48:49 | 55.45 | 49.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 1:48:50 | 55.77 | 49.47 | 71 | 1.14 | 0.29 | 3.9 |
| 5/3/2015 1:48:50 | 56.10 | 49.80 | 189 | 1.14 | 0.29 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:48:51 | 56.43 | 50.13 | 308 | 1.14 | 0.29 | 16.8 |
| 5/3/2015 | 1:49:02 | 56.76 | 50.46 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 1:49:03 | 57.09 | 50.79 | 28 | 1.14 | 0.29 | 1.5 |
| 5/3/2015 | 1:49:03 | 57.41 | 51.11 | 94 | 1.14 | 0.29 | 5.2 |
| 5/3/2015 | 1:49:04 | 57.74 | 51.44 | 222 | 1.14 | 0.29 | 12.1 |
| 5/3/2015 | 1:49:05 | 58.07 | 51.77 | 345 | 1.14 | 0.29 | 18.9 |
| 5/3/2015 | 1:49:15 | 58.40 | 52.10 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 1:49:17 | 58.73 | 52.43 | 141 | 1.14 | 0.29 | 7.7 |
| 5/3/2015 | 1:49:20 | 59.06 | 52.76 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 | 1:49:23 | 59.38 | 53.08 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 | 1:49:33 | 59.71 | 53.41 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 | 1:49:44 | 60.04 | 53.74 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 1:49:57 | 60.37 | 54.07 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 | 1:50:05 | 60.61 | 54.31 | 32 | 1.14 | 0.29 | 1.8 |

## P207 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:46:28

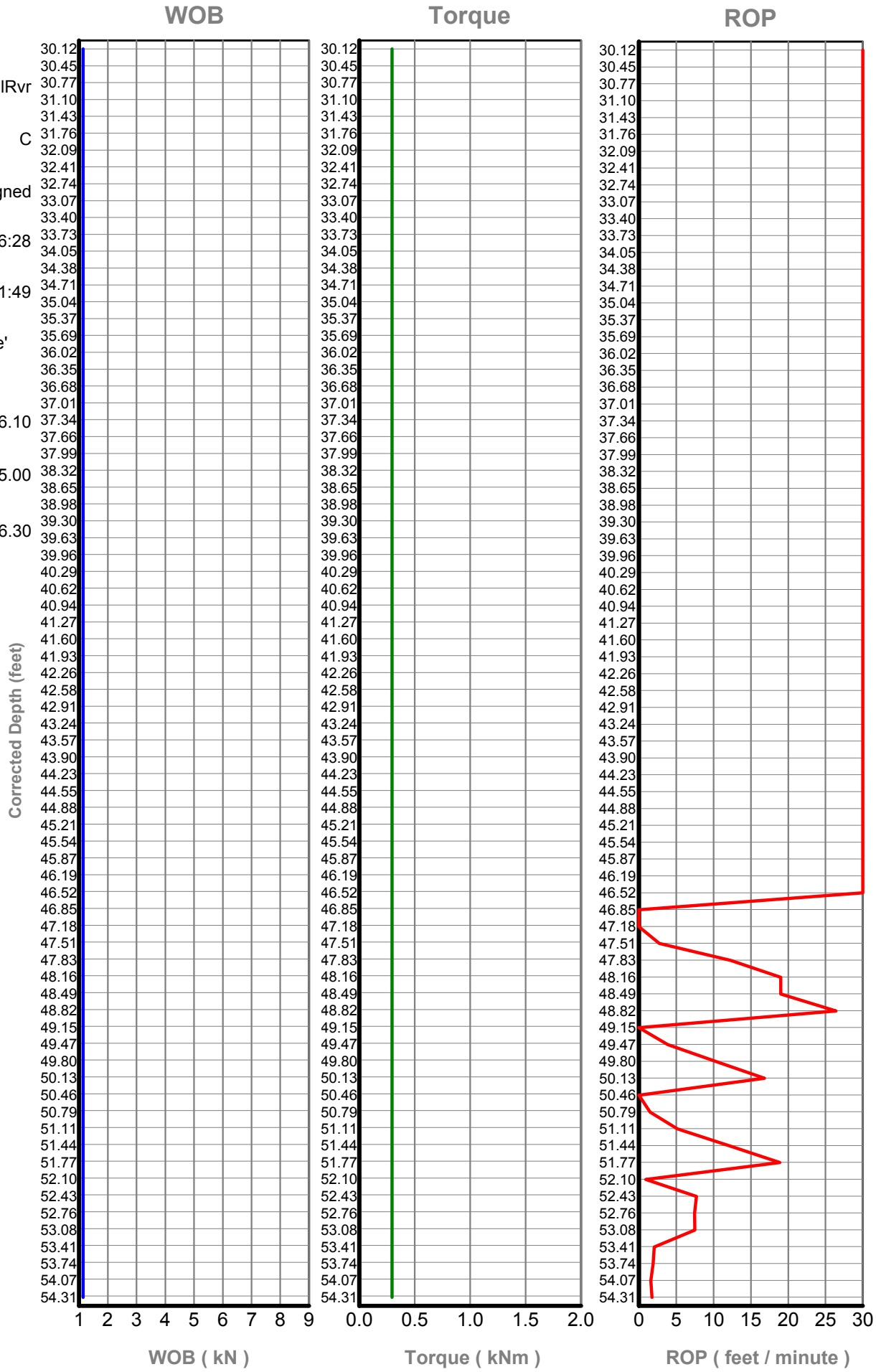
**End Date:**
5/3/2015 1:51:49

**Operator Note:**
'6.3 6.5 c Auto Complete'

**Northing:**
349,076.10

**Easting:**
225,175.00

**Tide (feet):**
6.30



## Hole: P208 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:13:21 | 37.07 | 30.27 | 1,288 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 23:13:21 | 37.40 | 30.60 | 1,301 | 0.54 | 0.17 | 71.2 |
| 5/2/2015 23:13:22 | 37.73 | 30.93 | 1,301 | 0.54 | 0.17 | 71.2 |
| 5/2/2015 23:13:22 | 38.06 | 31.26 | 1,297 | 0.54 | 0.17 | 70.9 |
| 5/2/2015 23:13:22 | 38.39 | 31.59 | 1,297 | 0.54 | 0.17 | 70.9 |
| 5/2/2015 23:13:22 | 38.71 | 31.91 | 1,264 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 23:13:23 | 39.04 | 32.24 | 1,264 | 0.54 | 0.17 | 69.1 |
| 5/2/2015 23:13:23 | 39.37 | 32.57 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 23:13:23 | 39.70 | 32.90 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 23:13:23 | 40.03 | 33.23 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 23:13:24 | 40.35 | 33.55 | 1,271 | 0.54 | 0.17 | 69.5 |
| 5/2/2015 23:13:24 | 40.68 | 33.88 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 23:13:24 | 41.01 | 34.21 | 1,290 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 23:13:25 | 41.34 | 34.54 | 1,290 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 23:13:25 | 41.67 | 34.87 | 1,280 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 23:13:25 | 41.99 | 35.19 | 1,280 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 23:13:25 | 42.32 | 35.52 | 1,308 | 0.54 | 0.17 | 71.5 |
| 5/2/2015 23:13:26 | 42.65 | 35.85 | 1,308 | 0.54 | 0.17 | 71.5 |
| 5/2/2015 23:13:26 | 42.98 | 36.18 | 1,298 | 0.54 | 0.17 | 71.0 |
| 5/2/2015 23:13:43 | 43.31 | 36.51 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:13:43 | 43.64 | 36.84 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:13:44 | 43.96 | 37.16 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 23:13:44 | 44.29 | 37.49 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 23:13:44 | 44.62 | 37.82 | 143 | 0.54 | 0.17 | 7.8 |
| 5/2/2015 23:13:45 | 44.95 | 38.15 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 23:13:45 | 45.28 | 38.48 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 23:13:45 | 45.60 | 38.80 | 557 | 0.54 | 0.17 | 30.5 |
| 5/2/2015 23:13:45 | 45.93 | 39.13 | 557 | 0.54 | 0.17 | 30.5 |
| 5/2/2015 23:13:46 | 46.26 | 39.46 | 557 | 0.54 | 0.17 | 30.5 |
| 5/2/2015 23:13:46 | 46.59 | 39.79 | 815 | 0.54 | 0.17 | 44.6 |
| 5/2/2015 23:13:47 | 46.92 | 40.12 | 815 | 0.54 | 0.17 | 44.6 |
| 5/2/2015 23:13:47 | 47.24 | 40.44 | 1,039 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 23:13:47 | 47.57 | 40.77 | 1,039 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 23:13:47 | 47.90 | 41.10 | 1,162 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 23:13:47 | 48.23 | 41.43 | 1,162 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 23:13:48 | 48.56 | 41.76 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/2/2015 23:13:48 | 48.88 | 42.08 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/2/2015 23:13:48 | 49.21 | 42.41 | 1,288 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 23:13:48 | 49.54 | 42.74 | 1,288 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 23:13:49 | 49.87 | 43.07 | 1,309 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 23:13:49 | 50.20 | 43.40 | 1,309 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 23:13:49 | 50.53 | 43.73 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/2/2015 23:13:50 | 50.85 | 44.05 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/2/2015 23:13:50 | 51.18 | 44.38 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:13:50 | 51.51 | 44.71 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:13:50 | 51.84 | 45.04 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:13:51 | 52.17 | 45.37 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:13:51 | 52.49 | 45.69 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/2/2015 23:13:52 | 52.82 | 46.02 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/2/2015 23:13:52 | 53.15 | 46.35 | 1,345 | 0.54 | 0.17 | 73.6 |
| 5/2/2015 23:13:52 | 53.48 | 46.68 | 1,345 | 0.54 | 0.17 | 73.6 |
| 5/2/2015 23:13:52 | 53.81 | 47.01 | 1,334 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 23:13:52 | 54.13 | 47.33 | 1,334 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 23:14:23 | 54.46 | 47.66 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:14:26 | 54.79 | 47.99 | 106 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 23:14:29 | 55.12 | 48.32 | 146 | 0.54 | 0.17 | 8.0 |
| 5/2/2015 23:14:34 | 55.45 | 48.65 | 19 | 0.54 | 0.17 | 1.0 |
| 5/2/2015 23:14:43 | 55.77 | 48.97 | 18 | 0.54 | 0.17 | 1.0 |
| 5/2/2015 23:14:44 | 56.10 | 49.30 | 159 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 23:14:45 | 56.43 | 49.63 | 230 | 0.54 | 0.17 | 12.6 |
| 5/2/2015 23:14:46 | 56.76 | 49.96 | 334 | 0.54 | 0.17 | 18.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:14:50 | 57.09 | 50.29 | 54 | 0.54 | 0.17 | 3.0 |
| 5/2/2015 | 23:15:07 | 57.41 | 50.61 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 | 23:15:12 | 57.74 | 50.94 | 23 | 0.54 | 0.17 | 1.3 |
| 5/2/2015 | 23:15:17 | 58.07 | 51.27 | 96 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 23:15:24 | 58.40 | 51.60 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 23:15:34 | 58.73 | 51.93 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 23:15:44 | 59.06 | 52.26 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 23:15:56 | 59.38 | 52.58 | 20 | 0.54 | 0.17 | 1.1 |
| 5/2/2015 | 23:15:57 | 59.44 | 52.64 | 38 | 0.54 | 0.17 | 2.1 |

## P208 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:04:10

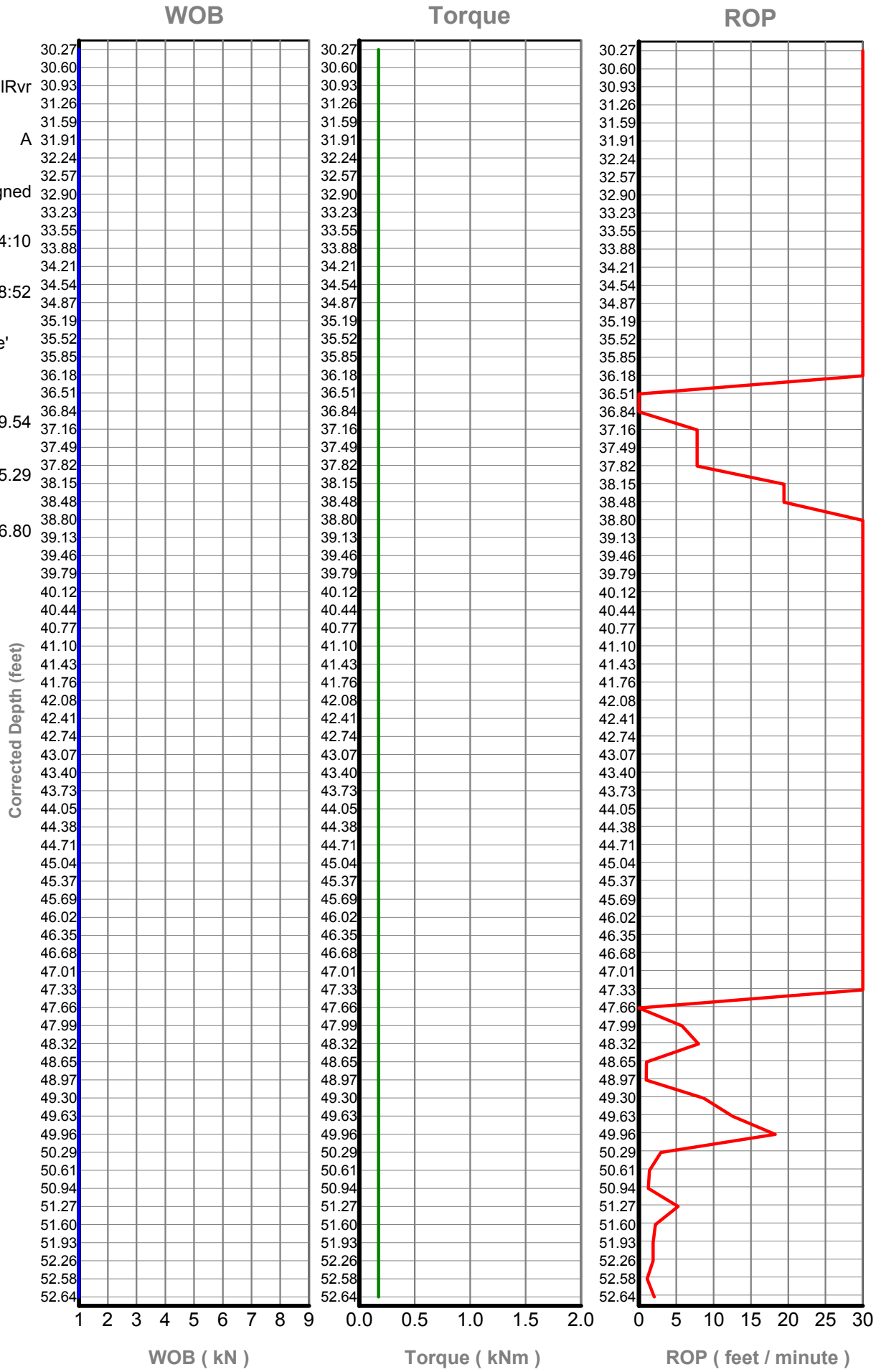
**End Date:**
5/2/2015 23:18:52

**Operator Note:**
'6.8 6.7 a Auto Complete'

**Northing:**
349,119.54

**Easting:**
225,235.29

**Tide (feet):**
6.80



## Hole: P209 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:13:26 | 37.07 | 30.17 | 1,224 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 23:13:26 | 37.40 | 30.50 | 1,237 | 0.28 | 0.40 | 67.6 |
| 5/2/2015 23:13:26 | 37.73 | 30.83 | 1,237 | 0.28 | 0.40 | 67.6 |
| 5/2/2015 23:13:26 | 38.06 | 31.16 | 1,226 | 0.32 | 0.40 | 67.1 |
| 5/2/2015 23:13:27 | 38.39 | 31.49 | 1,226 | 0.32 | 0.40 | 67.1 |
| 5/2/2015 23:13:27 | 38.71 | 31.81 | 1,212 | 0.32 | 0.39 | 66.3 |
| 5/2/2015 23:13:27 | 39.04 | 32.14 | 1,236 | 0.32 | 0.39 | 67.6 |
| 5/2/2015 23:13:28 | 39.37 | 32.47 | 1,236 | 0.32 | 0.39 | 67.6 |
| 5/2/2015 23:13:28 | 39.70 | 32.80 | 1,241 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 23:13:29 | 40.03 | 33.13 | 1,241 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 23:13:29 | 40.35 | 33.45 | 1,209 | 0.32 | 0.39 | 66.1 |
| 5/2/2015 23:13:29 | 40.68 | 33.78 | 1,209 | 0.32 | 0.39 | 66.1 |
| 5/2/2015 23:13:29 | 41.01 | 34.11 | 1,224 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 23:13:30 | 41.34 | 34.44 | 1,224 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 23:13:30 | 41.67 | 34.77 | 1,255 | 0.33 | 0.40 | 68.6 |
| 5/2/2015 23:13:30 | 41.99 | 35.09 | 1,206 | 0.33 | 0.38 | 65.9 |
| 5/2/2015 23:13:31 | 42.32 | 35.42 | 1,206 | 0.33 | 0.38 | 65.9 |
| 5/2/2015 23:13:31 | 42.65 | 35.75 | 1,206 | 0.33 | 0.39 | 65.9 |
| 5/2/2015 23:13:31 | 42.98 | 36.08 | 1,206 | 0.33 | 0.39 | 65.9 |
| 5/2/2015 23:13:31 | 43.31 | 36.41 | 1,227 | 0.33 | 0.38 | 67.1 |
| 5/2/2015 23:13:32 | 43.64 | 36.74 | 1,227 | 0.33 | 0.38 | 67.1 |
| 5/2/2015 23:13:32 | 43.96 | 37.06 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 23:13:32 | 44.29 | 37.39 | 1,203 | 0.33 | 0.38 | 65.8 |
| 5/2/2015 23:13:33 | 44.62 | 37.72 | 1,203 | 0.33 | 0.38 | 65.8 |
| 5/2/2015 23:13:33 | 44.95 | 38.05 | 1,203 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 23:13:33 | 45.28 | 38.38 | 1,203 | 0.33 | 0.40 | 65.8 |
| 5/2/2015 23:13:33 | 45.60 | 38.70 | 1,195 | 0.29 | 0.39 | 65.3 |
| 5/2/2015 23:13:34 | 45.93 | 39.03 | 1,195 | 0.29 | 0.39 | 65.3 |
| 5/2/2015 23:13:34 | 46.26 | 39.36 | 1,241 | 0.32 | 0.39 | 67.9 |
| 5/2/2015 23:13:34 | 46.59 | 39.69 | 1,241 | 0.32 | 0.39 | 67.9 |
| 5/2/2015 23:13:34 | 46.92 | 40.02 | 1,221 | 0.32 | 0.38 | 66.7 |
| 5/2/2015 23:13:35 | 47.24 | 40.34 | 1,225 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 23:13:35 | 47.57 | 40.67 | 1,225 | 0.33 | 0.40 | 67.0 |
| 5/2/2015 23:13:35 | 47.90 | 41.00 | 1,250 | 0.32 | 0.38 | 68.4 |
| 5/2/2015 23:13:36 | 48.23 | 41.33 | 1,250 | 0.32 | 0.38 | 68.4 |
| 5/2/2015 23:13:36 | 48.56 | 41.66 | 1,230 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 23:13:36 | 48.88 | 41.98 | 1,230 | 0.33 | 0.40 | 67.2 |
| 5/2/2015 23:13:36 | 49.21 | 42.31 | 1,202 | 0.50 | 0.39 | 65.7 |
| 5/2/2015 23:13:37 | 49.54 | 42.64 | 1,202 | 0.50 | 0.39 | 65.7 |
| 5/2/2015 23:13:37 | 49.87 | 42.97 | 1,202 | 0.33 | 0.39 | 65.7 |
| 5/2/2015 23:13:37 | 50.20 | 43.30 | 1,207 | 0.33 | 0.38 | 66.0 |
| 5/2/2015 23:13:38 | 50.53 | 43.63 | 1,207 | 0.33 | 0.38 | 66.0 |
| 5/2/2015 23:13:38 | 50.85 | 43.95 | 1,196 | 0.32 | 0.39 | 65.4 |
| 5/2/2015 23:13:38 | 51.18 | 44.28 | 1,196 | 0.32 | 0.39 | 65.4 |
| 5/2/2015 23:13:38 | 51.51 | 44.61 | 1,196 | 0.32 | 0.40 | 65.4 |
| 5/2/2015 23:13:39 | 51.84 | 44.94 | 1,196 | 0.32 | 0.40 | 65.4 |
| 5/2/2015 23:13:39 | 52.17 | 45.27 | 1,211 | 0.32 | 0.38 | 66.2 |
| 5/2/2015 23:13:40 | 52.49 | 45.59 | 1,202 | 0.32 | 0.40 | 65.7 |
| 5/2/2015 23:13:40 | 52.82 | 45.92 | 1,202 | 0.32 | 0.40 | 65.7 |
| 5/2/2015 23:13:40 | 53.15 | 46.25 | 1,230 | 0.33 | 0.39 | 67.3 |
| 5/2/2015 23:13:41 | 53.48 | 46.58 | 1,230 | 0.33 | 0.39 | 67.3 |
| 5/2/2015 23:13:41 | 53.81 | 46.91 | 1,228 | 0.31 | 0.43 | 67.2 |
| 5/2/2015 23:13:45 | 54.13 | 47.23 | 0 | 3.98 | 0.50 | 0.0 |
| 5/2/2015 23:14:01 | 54.46 | 47.56 | 40 | 3.26 | 0.49 | 2.2 |
| 5/2/2015 23:14:08 | 54.79 | 47.89 | 46 | 3.26 | 0.48 | 2.5 |
| 5/2/2015 23:14:17 | 55.12 | 48.22 | 47 | 3.50 | 0.49 | 2.5 |
| 5/2/2015 23:14:18 | 55.21 | 48.31 | 49 | 3.41 | 0.49 | 2.7 |

## P209 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:11:54

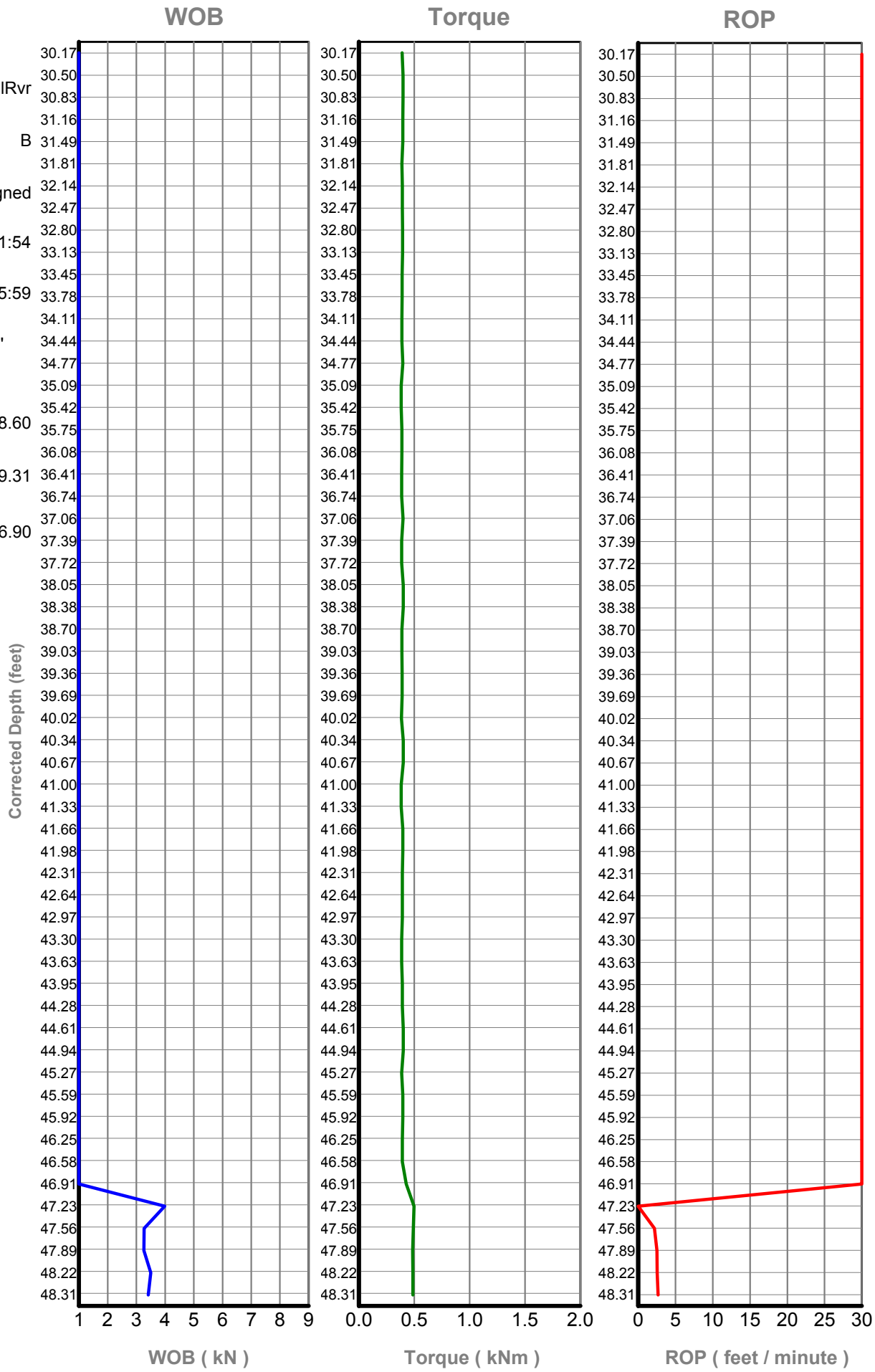
**End Date:**
5/2/2015 23:15:59

**Operator Note:**
'6.9 6.7b Auto Complete'

**Northing:**
349,158.60

**Easting:**
225,299.31

**Tide (feet):**
6.90



## Hole: P21 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:51:48 | 32.15 | 30.15 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 5:51:49 | 32.48 | 30.48 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 5:51:49 | 32.81 | 30.81 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 5:51:49 | 33.14 | 31.14 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:51:50 | 33.46 | 31.46 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:51:50 | 33.79 | 31.79 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 5:51:50 | 34.12 | 32.12 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 5:51:51 | 34.45 | 32.45 | 1,080 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 5:51:51 | 34.78 | 32.78 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 5:51:51 | 35.11 | 33.11 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:52 | 35.43 | 33.43 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:52 | 35.76 | 33.76 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:52 | 36.09 | 34.09 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:53 | 36.42 | 34.42 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:53 | 36.75 | 34.75 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:53 | 37.07 | 35.07 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:54 | 37.40 | 35.40 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:54 | 37.73 | 35.73 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:54 | 38.06 | 36.06 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:54 | 38.39 | 36.39 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:51:55 | 38.71 | 36.71 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:55 | 39.04 | 37.04 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:55 | 39.37 | 37.37 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:56 | 39.70 | 37.70 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:56 | 40.03 | 38.03 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:56 | 40.35 | 38.35 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:51:57 | 40.68 | 38.68 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:57 | 41.01 | 39.01 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:51:57 | 41.34 | 39.34 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:58 | 41.67 | 39.67 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:59 | 41.99 | 39.99 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:51:59 | 42.32 | 40.32 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 5:51:59 | 42.65 | 40.65 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:52:00 | 42.98 | 40.98 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:52:00 | 43.31 | 41.31 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:52:00 | 43.64 | 41.64 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:52:00 | 43.96 | 41.96 | 1,065 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 5:52:01 | 44.29 | 42.29 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 5:52:17 | 44.62 | 42.62 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 5:52:30 | 44.95 | 42.95 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 5:52:31 | 45.28 | 43.28 | 183 | 1.14 | 0.29 | 10.0 |
| 5/3/2015 5:52:32 | 45.60 | 43.60 | 315 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 5:52:47 | 45.93 | 43.93 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 5:52:52 | 46.26 | 44.26 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 5:52:54 | 46.59 | 44.59 | 195 | 1.14 | 0.29 | 10.7 |
| 5/3/2015 5:52:56 | 46.92 | 44.92 | 190 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 5:52:58 | 47.24 | 45.24 | 193 | 1.14 | 0.29 | 10.6 |
| 5/3/2015 5:53:06 | 47.57 | 45.57 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 5:53:08 | 47.90 | 45.90 | 131 | 1.14 | 0.29 | 7.2 |
| 5/3/2015 5:53:12 | 48.23 | 46.23 | 92 | 1.14 | 0.29 | 5.0 |
| 5/3/2015 5:53:16 | 48.56 | 46.56 | 85 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 6:00:49 | 48.88 | 46.88 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 6:01:03 | 49.21 | 47.21 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 6:01:22 | 49.54 | 47.54 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 6:01:29 | 49.72 | 47.72 | 26 | 1.14 | 0.29 | 1.4 |

## P21 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:50:41

**End Date:**
5/3/2015 6:02:54

**Operator Note:**
'2 2.1 c Auto Complete'

**Northing:**
349,398.00

**Easting:**
224,709.90

**Tide (feet):**
2.00



## Hole: P210 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:11:59 | 37.07 | 30.17 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:12:00 | 37.40 | 30.50 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:12:00 | 37.73 | 30.83 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:12:00 | 38.06 | 31.16 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 23:12:01 | 38.39 | 31.49 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 23:12:01 | 38.71 | 31.81 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:01 | 39.04 | 32.14 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:12:02 | 39.37 | 32.47 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:12:02 | 39.70 | 32.80 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 23:12:02 | 40.03 | 33.13 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 23:12:03 | 40.35 | 33.45 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 23:12:03 | 40.68 | 33.78 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 23:12:03 | 41.01 | 34.11 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 23:12:04 | 41.34 | 34.44 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 23:12:04 | 41.67 | 34.77 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 23:12:05 | 41.99 | 35.09 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 23:12:05 | 42.32 | 35.42 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:12:05 | 42.65 | 35.75 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:12:06 | 42.98 | 36.08 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:12:06 | 43.31 | 36.41 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 23:12:06 | 43.64 | 36.74 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 23:12:07 | 43.96 | 37.06 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 23:12:07 | 44.29 | 37.39 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:07 | 44.62 | 37.72 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:08 | 44.95 | 38.05 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:08 | 45.28 | 38.38 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:08 | 45.60 | 38.70 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:09 | 45.93 | 39.03 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:09 | 46.26 | 39.36 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:12:09 | 46.59 | 39.69 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 23:12:10 | 46.92 | 40.02 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 23:12:10 | 47.24 | 40.34 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:10 | 47.57 | 40.67 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:11 | 47.90 | 41.00 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 23:12:11 | 48.23 | 41.33 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 23:12:11 | 48.56 | 41.66 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:12 | 48.88 | 41.98 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:12 | 49.21 | 42.31 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:12:12 | 49.54 | 42.64 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:12:13 | 49.87 | 42.97 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:12:13 | 50.20 | 43.30 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:12:13 | 50.53 | 43.63 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 23:12:14 | 50.85 | 43.95 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 23:12:14 | 51.18 | 44.28 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:12:14 | 51.51 | 44.61 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:12:15 | 51.84 | 44.94 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:12:15 | 52.17 | 45.27 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 23:12:15 | 52.49 | 45.59 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:12:16 | 52.82 | 45.92 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:12:16 | 53.15 | 46.25 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:12:17 | 53.48 | 46.58 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 23:12:17 | 53.81 | 46.91 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/2/2015 23:12:17 | 54.13 | 47.23 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:12:18 | 54.46 | 47.56 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:12:33 | 54.79 | 47.89 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 23:12:35 | 55.12 | 48.22 | 158 | 1.14 | 0.29 | 8.6 |
| 5/2/2015 23:12:43 | 55.45 | 48.55 | 45 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 23:12:51 | 55.77 | 48.87 | 42 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 23:12:58 | 56.10 | 49.20 | 52 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 23:13:07 | 56.43 | 49.53 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 23:13:18 | 56.76 | 49.86 | 32 | 1.14 | 0.29 | 1.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:13:23 | 56.94 | 50.04 | 38 | 1.14 | 0.29 | 2.1 |

## P210 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:10:50

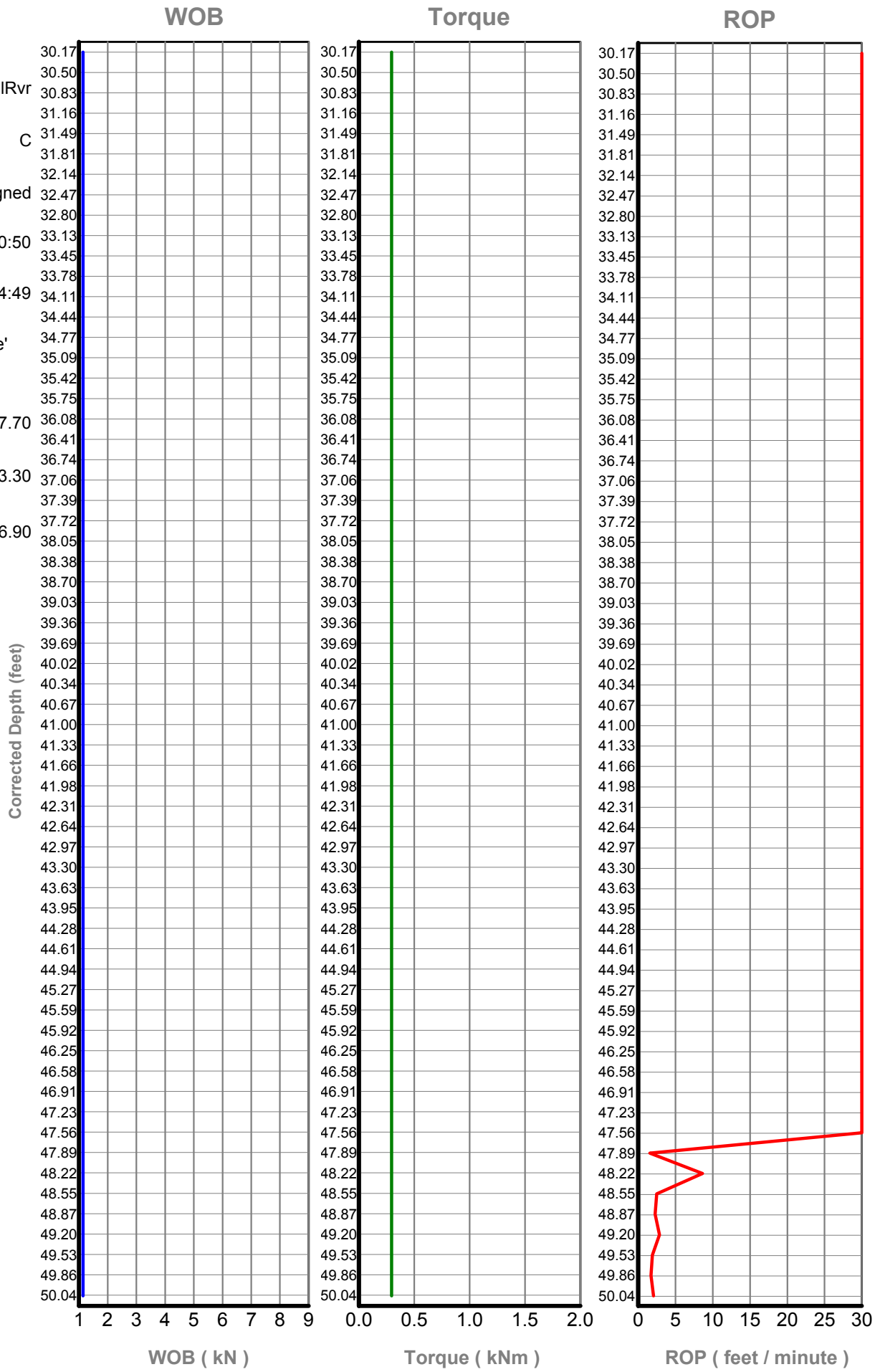
**End Date:**
5/2/2015 23:14:49

**Operator Note:**
'6.9 6.7 c Auto Complete'

**Northing:**
349,197.70

**Easting:**
225,363.30

**Tide (feet):**
6.90



## Hole: P211 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:14:36 | 33.14 | 30.14 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:37 | 33.46 | 30.46 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:37 | 33.79 | 30.79 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:37 | 34.12 | 31.12 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:38 | 34.45 | 31.45 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:38 | 34.78 | 31.78 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:38 | 35.11 | 32.11 | 997 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:39 | 35.43 | 32.43 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:39 | 35.76 | 32.76 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:39 | 36.09 | 33.09 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:40 | 36.42 | 33.42 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:40 | 36.75 | 33.75 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:40 | 37.07 | 34.07 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:41 | 37.40 | 34.40 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:41 | 37.73 | 34.73 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:41 | 38.06 | 35.06 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/2/2015 20:14:42 | 38.39 | 35.39 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/2/2015 20:14:42 | 38.71 | 35.71 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/2/2015 20:14:42 | 39.04 | 36.04 | 997 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:43 | 39.37 | 36.37 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/2/2015 20:14:43 | 39.70 | 36.70 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/2/2015 20:14:44 | 40.03 | 37.03 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/2/2015 20:14:44 | 40.35 | 37.35 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:44 | 40.68 | 37.68 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:45 | 41.01 | 38.01 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/2/2015 20:14:45 | 41.34 | 38.34 | 997 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:46 | 41.67 | 38.67 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 20:14:46 | 41.99 | 38.99 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 20:14:46 | 42.32 | 39.32 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 20:14:47 | 42.65 | 39.65 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 20:14:47 | 42.98 | 39.98 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 20:14:47 | 43.31 | 40.31 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:48 | 43.64 | 40.64 | 998 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:48 | 43.96 | 40.96 | 997 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:49 | 44.29 | 41.29 | 997 | 0.54 | 0.17 | 54.5 |
| 5/2/2015 20:14:49 | 44.62 | 41.62 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:49 | 44.95 | 41.95 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:50 | 45.28 | 42.28 | 994 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:50 | 45.60 | 42.60 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 20:14:50 | 45.93 | 42.93 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:51 | 46.26 | 43.26 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:51 | 46.59 | 43.59 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 20:14:51 | 46.92 | 43.92 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:14:52 | 47.24 | 44.24 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 20:15:28 | 47.57 | 44.57 | 14 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 20:15:37 | 47.90 | 44.90 | 43 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 20:15:45 | 48.23 | 45.23 | 46 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 20:15:53 | 48.56 | 45.56 | 43 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 20:16:09 | 48.88 | 45.88 | 47 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 20:16:11 | 48.98 | 45.98 | 47 | 0.54 | 0.17 | 2.5 |

## P211 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:11:56

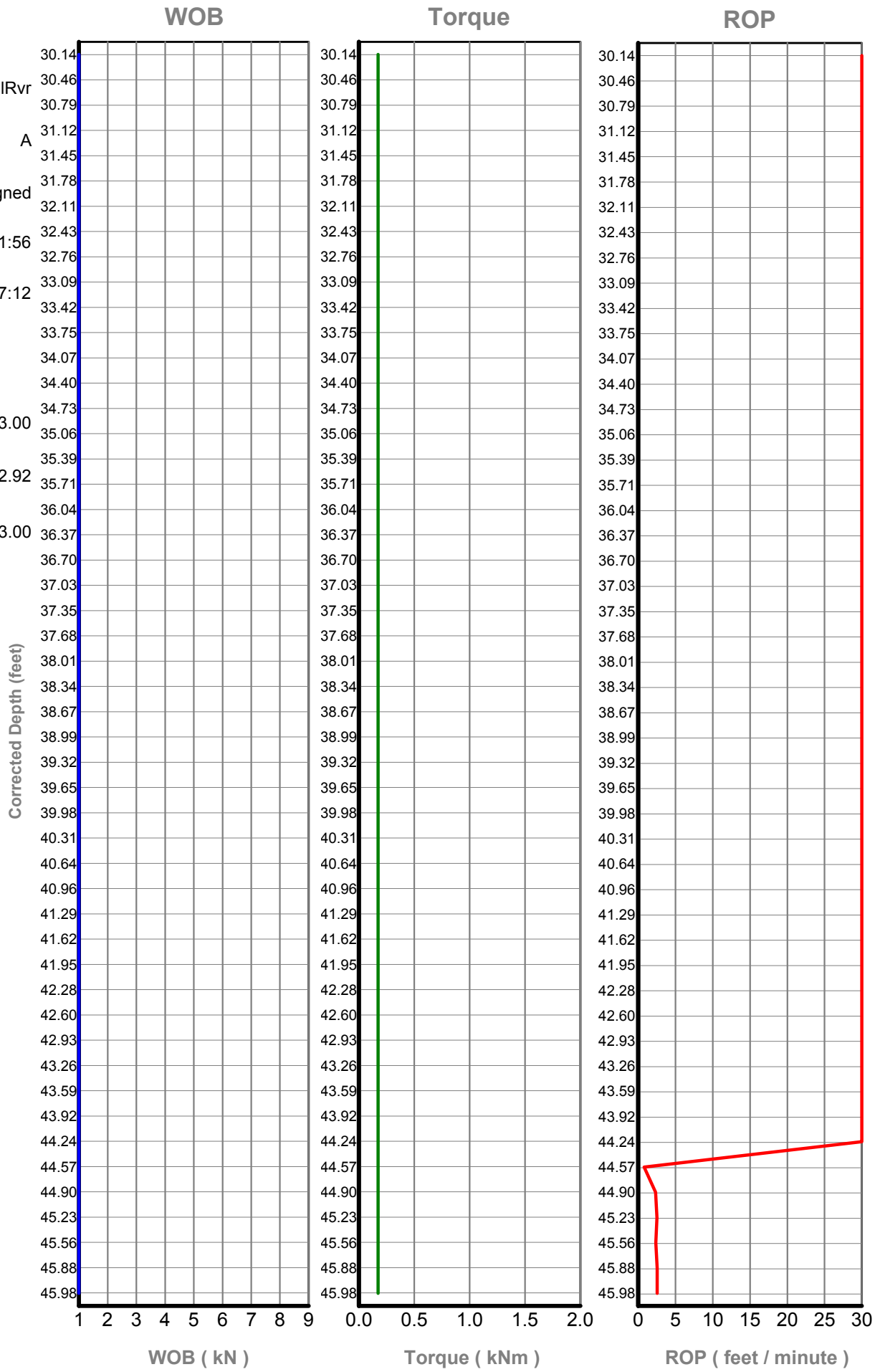
**End Date:**
5/2/2015 20:17:12

**Operator Note:**
'3 2.9 a Auto Complete'

**Northing:**
349,243.00

**Easting:**
225,422.92

**Tide (feet):**
3.00



## Hole: P212 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:15:28 | 33.14 | 30.14 | 1,104 | 0.38 | 0.41 | 60.4 |
| 5/2/2015 20:15:28 | 33.46 | 30.46 | 1,104 | 0.39 | 0.41 | 60.4 |
| 5/2/2015 20:15:29 | 33.79 | 30.79 | 1,104 | 0.39 | 0.41 | 60.4 |
| 5/2/2015 20:15:29 | 34.12 | 31.12 | 1,108 | 0.39 | 0.41 | 60.6 |
| 5/2/2015 20:15:29 | 34.45 | 31.45 | 1,108 | 0.39 | 0.41 | 60.6 |
| 5/2/2015 20:15:29 | 34.78 | 31.78 | 1,117 | 0.39 | 0.41 | 61.1 |
| 5/2/2015 20:15:30 | 35.11 | 32.11 | 1,117 | 0.39 | 0.41 | 61.1 |
| 5/2/2015 20:15:30 | 35.43 | 32.43 | 1,117 | 0.39 | 0.41 | 61.1 |
| 5/2/2015 20:15:30 | 35.76 | 32.76 | 1,107 | 0.39 | 0.42 | 60.5 |
| 5/2/2015 20:15:31 | 36.09 | 33.09 | 1,078 | 0.39 | 0.41 | 59.0 |
| 5/2/2015 20:15:31 | 36.42 | 33.42 | 1,078 | 0.39 | 0.41 | 59.0 |
| 5/2/2015 20:15:31 | 36.75 | 33.75 | 1,078 | 0.39 | 0.41 | 59.0 |
| 5/2/2015 20:15:32 | 37.07 | 34.07 | 1,078 | 0.39 | 0.41 | 59.0 |
| 5/2/2015 20:15:32 | 37.40 | 34.40 | 1,084 | 0.39 | 0.41 | 59.3 |
| 5/2/2015 20:15:32 | 37.73 | 34.73 | 1,083 | 0.39 | 0.41 | 59.2 |
| 5/2/2015 20:15:33 | 38.06 | 35.06 | 1,083 | 0.39 | 0.41 | 59.2 |
| 5/2/2015 20:15:33 | 38.39 | 35.39 | 1,091 | 0.39 | 0.41 | 59.6 |
| 5/2/2015 20:15:33 | 38.71 | 35.71 | 1,081 | 0.38 | 0.41 | 59.1 |
| 5/2/2015 20:15:34 | 39.04 | 36.04 | 1,081 | 0.38 | 0.41 | 59.1 |
| 5/2/2015 20:15:34 | 39.37 | 36.37 | 1,104 | 0.39 | 0.42 | 60.4 |
| 5/2/2015 20:15:34 | 39.70 | 36.70 | 1,104 | 0.39 | 0.42 | 60.4 |
| 5/2/2015 20:15:34 | 40.03 | 37.03 | 1,098 | 0.38 | 0.41 | 60.1 |
| 5/2/2015 20:15:35 | 40.35 | 37.35 | 1,098 | 0.39 | 0.42 | 60.1 |
| 5/2/2015 20:15:35 | 40.68 | 37.68 | 1,098 | 0.39 | 0.42 | 60.1 |
| 5/2/2015 20:15:35 | 41.01 | 38.01 | 1,092 | 0.38 | 0.42 | 59.7 |
| 5/2/2015 20:15:36 | 41.34 | 38.34 | 1,101 | 0.38 | 0.41 | 60.2 |
| 5/2/2015 20:15:36 | 41.67 | 38.67 | 1,101 | 0.38 | 0.41 | 60.2 |
| 5/2/2015 20:15:36 | 41.99 | 38.99 | 1,096 | 0.39 | 0.41 | 59.9 |
| 5/2/2015 20:15:37 | 42.32 | 39.32 | 1,096 | 0.39 | 0.41 | 59.9 |
| 5/2/2015 20:15:37 | 42.65 | 39.65 | 1,096 | 0.39 | 0.42 | 59.9 |
| 5/2/2015 20:15:38 | 42.98 | 39.98 | 1,090 | 0.39 | 0.42 | 59.6 |
| 5/2/2015 20:15:38 | 43.31 | 40.31 | 1,090 | 0.39 | 0.42 | 59.6 |
| 5/2/2015 20:15:38 | 43.64 | 40.64 | 1,103 | 0.38 | 0.41 | 60.3 |
| 5/2/2015 20:15:39 | 43.96 | 40.96 | 1,096 | 0.38 | 0.41 | 60.0 |
| 5/2/2015 20:15:39 | 44.29 | 41.29 | 1,096 | 0.38 | 0.41 | 60.0 |
| 5/2/2015 20:15:39 | 44.62 | 41.62 | 1,096 | 0.38 | 0.41 | 60.0 |
| 5/2/2015 20:15:40 | 44.95 | 41.95 | 1,096 | 0.38 | 0.41 | 60.0 |
| 5/2/2015 20:15:40 | 45.28 | 42.28 | 1,096 | 0.38 | 0.41 | 60.0 |
| 5/2/2015 20:15:40 | 45.60 | 42.60 | 1,102 | 0.39 | 0.41 | 60.3 |
| 5/2/2015 20:15:41 | 45.93 | 42.93 | 1,102 | 0.39 | 0.41 | 60.3 |
| 5/2/2015 20:15:41 | 46.26 | 43.26 | 1,093 | 0.38 | 0.41 | 59.8 |
| 5/2/2015 20:15:41 | 46.59 | 43.59 | 1,093 | 0.39 | 0.41 | 59.8 |
| 5/2/2015 20:15:42 | 46.92 | 43.92 | 1,093 | 0.39 | 0.41 | 59.8 |
| 5/2/2015 20:15:42 | 47.24 | 44.24 | 1,096 | 0.30 | 0.41 | 59.9 |
| 5/2/2015 20:15:42 | 47.57 | 44.57 | 1,096 | 0.30 | 0.41 | 59.9 |
| 5/2/2015 20:15:42 | 47.90 | 44.90 | 1,099 | 0.38 | 0.41 | 60.1 |
| 5/2/2015 20:15:43 | 48.23 | 45.23 | 1,096 | 0.39 | 0.41 | 59.9 |
| 5/2/2015 20:15:43 | 48.56 | 45.56 | 1,096 | 0.39 | 0.41 | 59.9 |
| 5/2/2015 20:15:43 | 48.88 | 45.88 | 1,096 | 0.37 | 0.41 | 59.9 |
| 5/2/2015 20:15:44 | 49.21 | 46.21 | 1,096 | 0.38 | 0.41 | 59.9 |
| 5/2/2015 20:15:44 | 49.54 | 46.54 | 1,096 | 0.38 | 0.41 | 59.9 |
| 5/2/2015 20:15:44 | 49.87 | 46.87 | 1,099 | 0.36 | 0.45 | 60.1 |
| 5/2/2015 20:15:52 | 50.20 | 47.20 | 23 | 4.23 | 0.50 | 1.3 |
| 5/2/2015 20:16:01 | 50.53 | 47.53 | 41 | 3.74 | 0.50 | 2.3 |
| 5/2/2015 20:16:09 | 50.85 | 47.85 | 43 | 4.13 | 0.50 | 2.4 |
| 5/2/2015 20:16:17 | 51.18 | 48.18 | 43 | 3.94 | 0.50 | 2.3 |

## P212 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:13:52

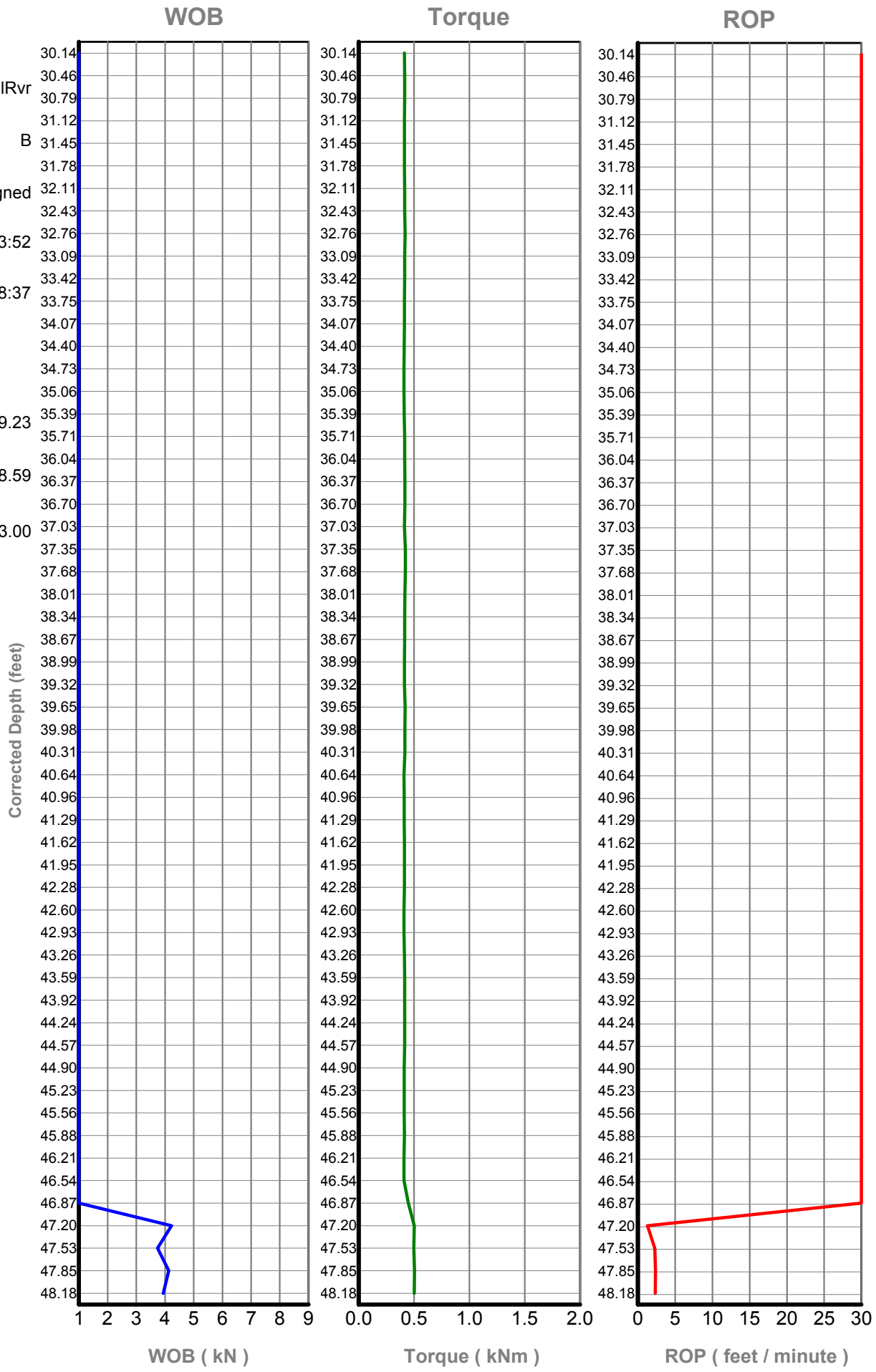
**End Date:**
5/2/2015 20:18:37

**Operator Note:**
'3 2.6b Auto Complete'

**Northing:**
349,279.23

**Easting:**
225,488.59

**Tide (feet):**
3.00



## Hole: P213 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 20:13:39 | 33.14 | 30.14 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 20:13:40 | 33.46 | 30.46 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 20:13:40 | 33.79 | 30.79 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 20:13:40 | 34.12 | 31.12 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 20:13:41 | 34.45 | 31.45 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:41 | 34.78 | 31.78 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 20:13:42 | 35.11 | 32.11 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 20:13:42 | 35.43 | 32.43 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 20:13:43 | 35.76 | 32.76 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:43 | 36.09 | 33.09 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:43 | 36.42 | 33.42 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:44 | 36.75 | 33.75 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:44 | 37.07 | 34.07 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:44 | 37.40 | 34.40 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:45 | 37.73 | 34.73 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 20:13:45 | 38.06 | 35.06 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 20:13:45 | 38.39 | 35.39 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 20:13:46 | 38.71 | 35.71 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 20:13:46 | 39.04 | 36.04 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:47 | 39.37 | 36.37 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:47 | 39.70 | 36.70 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 20:13:47 | 40.03 | 37.03 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 20:13:48 | 40.35 | 37.35 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 20:13:48 | 40.68 | 37.68 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 20:13:48 | 41.01 | 38.01 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:49 | 41.34 | 38.34 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:49 | 41.67 | 38.67 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 20:13:49 | 41.99 | 38.99 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 20:13:50 | 42.32 | 39.32 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 20:13:50 | 42.65 | 39.65 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 20:13:50 | 42.98 | 39.98 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 20:13:51 | 43.31 | 40.31 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 20:13:51 | 43.64 | 40.64 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 20:13:51 | 43.96 | 40.96 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 20:13:52 | 44.29 | 41.29 | 982 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 20:13:52 | 44.62 | 41.62 | 982 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 20:13:52 | 44.95 | 41.95 | 988 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 20:13:53 | 45.28 | 42.28 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 20:13:53 | 45.60 | 42.60 | 994 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 20:13:53 | 45.93 | 42.93 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 20:13:54 | 46.26 | 43.26 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 20:13:55 | 46.59 | 43.59 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 20:13:55 | 46.92 | 43.92 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 20:13:55 | 47.24 | 44.24 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 20:13:56 | 47.57 | 44.57 | 992 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 20:13:56 | 47.90 | 44.90 | 992 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 20:13:56 | 48.23 | 45.23 | 993 | 1.14 | 0.29 | 54.3 |
| 5/2/2015 20:13:57 | 48.56 | 45.56 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 20:13:57 | 48.88 | 45.88 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 20:13:57 | 49.21 | 46.21 | 990 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 20:13:58 | 49.54 | 46.54 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 20:13:58 | 49.87 | 46.87 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 20:13:58 | 50.20 | 47.20 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 20:13:59 | 50.53 | 47.53 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 20:13:59 | 50.85 | 47.85 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 20:14:22 | 51.18 | 48.18 | 100 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 20:14:23 | 51.51 | 48.51 | 170 | 1.14 | 0.29 | 9.3 |
| 5/2/2015 20:14:41 | 51.84 | 48.84 | 42 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 20:14:42 | 52.17 | 49.17 | 122 | 1.14 | 0.29 | 6.7 |
| 5/2/2015 20:14:43 | 52.49 | 49.49 | 271 | 1.14 | 0.29 | 14.8 |
| 5/2/2015 20:14:44 | 52.82 | 49.82 | 385 | 1.14 | 0.29 | 21.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 20:15:01 | 53.15 | 50.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 20:15:03 | 53.48 | 50.48 | 93 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 | 20:15:05 | 53.81 | 50.81 | 148 | 1.14 | 0.29 | 8.1 |
| 5/2/2015 | 20:15:06 | 54.13 | 51.13 | 219 | 1.14 | 0.29 | 12.0 |
| 5/2/2015 | 20:15:07 | 54.46 | 51.46 | 290 | 1.14 | 0.29 | 15.8 |
| 5/2/2015 | 20:15:08 | 54.79 | 51.79 | 375 | 1.14 | 0.29 | 20.5 |
| 5/2/2015 | 20:15:08 | 55.12 | 52.12 | 435 | 1.14 | 0.29 | 23.8 |
| 5/2/2015 | 20:15:09 | 55.45 | 52.45 | 500 | 1.14 | 0.29 | 27.4 |
| 5/2/2015 | 20:15:14 | 55.77 | 52.77 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 20:15:15 | 56.10 | 53.10 | 179 | 1.14 | 0.29 | 9.8 |
| 5/2/2015 | 20:15:15 | 56.43 | 53.43 | 296 | 1.14 | 0.29 | 16.2 |
| 5/2/2015 | 20:15:19 | 56.76 | 53.76 | 40 | 1.14 | 0.29 | 2.2 |
| 5/2/2015 | 20:15:23 | 57.09 | 54.09 | 83 | 1.14 | 0.29 | 4.5 |
| 5/2/2015 | 20:15:25 | 57.41 | 54.41 | 214 | 1.14 | 0.29 | 11.7 |
| 5/2/2015 | 20:15:28 | 57.66 | 54.66 | 88 | 1.14 | 0.29 | 4.8 |

## P213 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 20:12:30

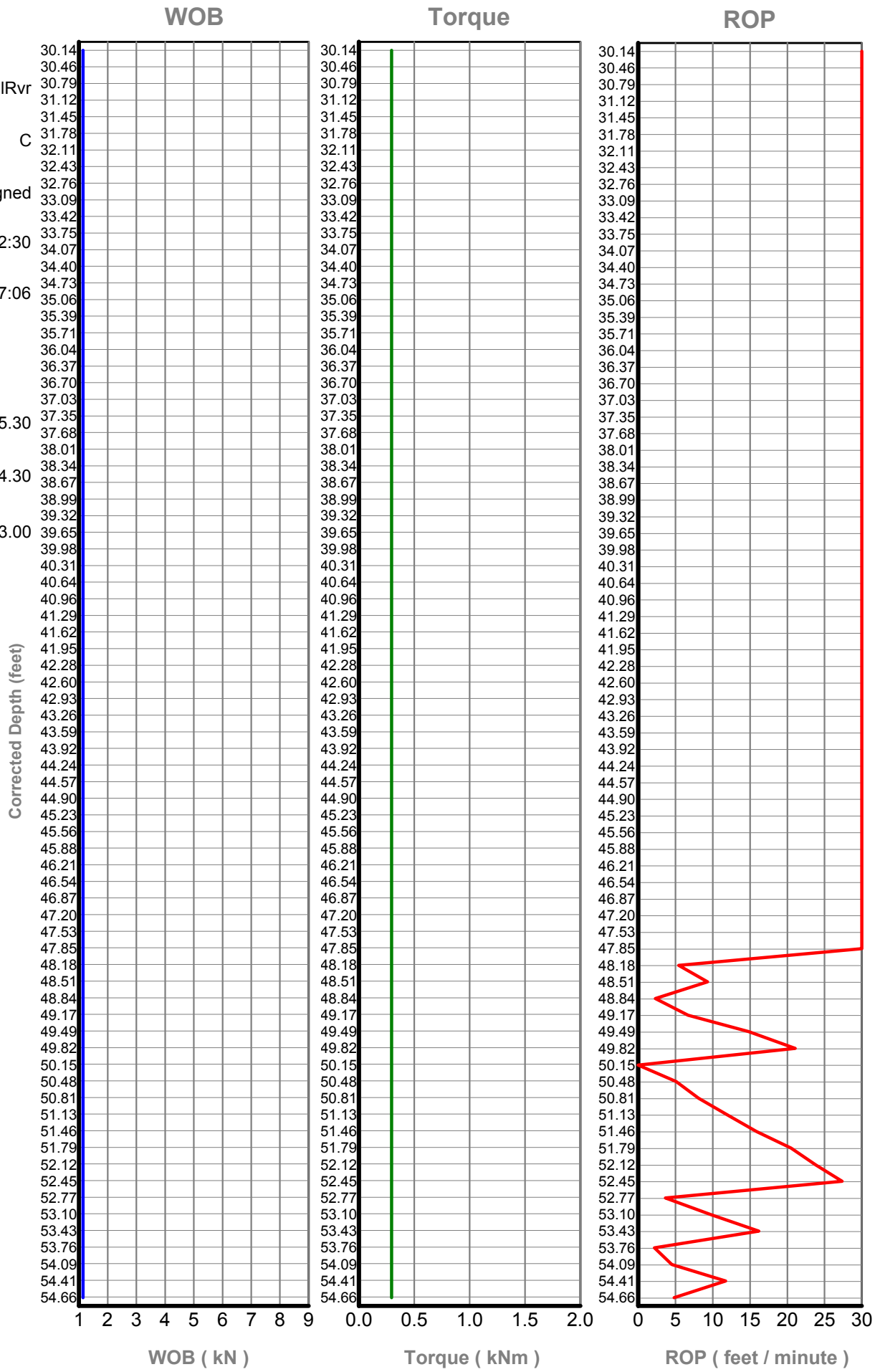
**End Date:**
5/2/2015 20:17:06

**Operator Note:**
'3 2.6 c Auto Complete'

**Northing:**
349,315.30

**Easting:**
225,554.30

**Tide (feet):**
3.00



## Hole: P214 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:21:59 | 31.82 | 30.12 | 895 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:21:59 | 32.15 | 30.45 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:00 | 32.48 | 30.78 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 17:22:00 | 32.81 | 31.11 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 17:22:00 | 33.14 | 31.44 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:01 | 33.46 | 31.76 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 17:22:01 | 33.79 | 32.09 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:02 | 34.12 | 32.42 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:02 | 34.45 | 32.75 | 892 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:02 | 34.78 | 33.08 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:03 | 35.11 | 33.41 | 892 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:03 | 35.43 | 33.73 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:04 | 35.76 | 34.06 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:04 | 36.09 | 34.39 | 892 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:04 | 36.42 | 34.72 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:05 | 36.75 | 35.05 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:05 | 37.07 | 35.37 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:05 | 37.40 | 35.70 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:06 | 37.73 | 36.03 | 886 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 17:22:06 | 38.06 | 36.36 | 886 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 17:22:07 | 38.39 | 36.69 | 886 | 0.54 | 0.17 | 48.4 |
| 5/2/2015 17:22:07 | 38.71 | 37.01 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:07 | 39.04 | 37.34 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:08 | 39.37 | 37.67 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:08 | 39.70 | 38.00 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:09 | 40.03 | 38.33 | 890 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 17:22:09 | 40.35 | 38.65 | 906 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 17:22:10 | 40.68 | 38.98 | 889 | 0.54 | 0.17 | 48.6 |
| 5/2/2015 17:22:10 | 41.01 | 39.31 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:11 | 41.34 | 39.64 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 17:22:11 | 41.67 | 39.97 | 899 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 17:22:11 | 41.99 | 40.29 | 894 | 0.54 | 0.17 | 48.9 |
| 5/2/2015 17:22:12 | 42.32 | 40.62 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:22:12 | 42.65 | 40.95 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 17:23:08 | 42.98 | 41.28 | 31 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 17:23:08 | 43.31 | 41.61 | 31 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 17:23:08 | 43.64 | 41.94 | 181 | 0.54 | 0.17 | 9.9 |
| 5/2/2015 17:23:09 | 43.96 | 42.26 | 357 | 0.54 | 0.17 | 19.5 |
| 5/2/2015 17:23:09 | 44.29 | 42.59 | 528 | 0.54 | 0.17 | 28.9 |
| 5/2/2015 17:23:10 | 44.62 | 42.92 | 699 | 0.54 | 0.17 | 38.2 |
| 5/2/2015 17:23:10 | 44.95 | 43.25 | 833 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 17:23:11 | 45.28 | 43.58 | 833 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 17:23:11 | 45.60 | 43.90 | 854 | 0.54 | 0.17 | 46.7 |
| 5/2/2015 17:23:11 | 45.93 | 44.23 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 17:23:12 | 46.26 | 44.56 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 17:23:12 | 46.59 | 44.89 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 17:23:13 | 46.92 | 45.22 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 17:23:13 | 47.24 | 45.54 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 17:23:13 | 47.57 | 45.87 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 17:23:14 | 47.90 | 46.20 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 17:23:14 | 48.23 | 46.53 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 17:24:22 | 48.56 | 46.86 | 21 | 0.54 | 0.17 | 1.2 |
| 5/2/2015 17:24:23 | 48.88 | 47.18 | 149 | 0.54 | 0.17 | 8.2 |
| 5/2/2015 17:24:24 | 49.21 | 47.51 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 17:24:25 | 49.54 | 47.84 | 338 | 0.54 | 0.17 | 18.5 |
| 5/2/2015 17:24:26 | 49.87 | 48.17 | 390 | 0.54 | 0.17 | 21.3 |
| 5/2/2015 17:24:26 | 50.20 | 48.50 | 430 | 0.54 | 0.17 | 23.5 |
| 5/2/2015 17:24:27 | 50.53 | 48.83 | 431 | 0.54 | 0.17 | 23.6 |
| 5/2/2015 17:24:28 | 50.85 | 49.15 | 410 | 0.54 | 0.17 | 22.4 |
| 5/2/2015 17:24:29 | 51.18 | 49.48 | 349 | 0.54 | 0.17 | 19.1 |
| 5/2/2015 17:24:30 | 51.51 | 49.81 | 340 | 0.54 | 0.17 | 18.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:24:32 | 51.84 | 50.14 | 337 | 0.54 | 0.17 | 18.4 |
| 5/2/2015 | 17:24:33 | 52.17 | 50.47 | 328 | 0.54 | 0.17 | 18.0 |
| 5/2/2015 | 17:24:34 | 52.49 | 50.79 | 396 | 0.54 | 0.17 | 21.7 |
| 5/2/2015 | 17:24:34 | 52.82 | 51.12 | 425 | 0.54 | 0.17 | 23.2 |
| 5/2/2015 | 17:24:35 | 53.15 | 51.45 | 501 | 0.54 | 0.17 | 27.4 |
| 5/2/2015 | 17:24:35 | 53.48 | 51.78 | 567 | 0.54 | 0.17 | 31.0 |
| 5/2/2015 | 17:24:36 | 53.81 | 52.11 | 596 | 0.54 | 0.17 | 32.6 |
| 5/2/2015 | 17:24:36 | 54.13 | 52.43 | 605 | 0.54 | 0.17 | 33.1 |
| 5/2/2015 | 17:24:37 | 54.46 | 52.76 | 640 | 0.54 | 0.17 | 35.0 |
| 5/2/2015 | 17:24:37 | 54.79 | 53.09 | 636 | 0.54 | 0.17 | 34.8 |
| 5/2/2015 | 17:24:38 | 55.12 | 53.42 | 628 | 0.54 | 0.17 | 34.3 |
| 5/2/2015 | 17:24:38 | 55.45 | 53.75 | 646 | 0.54 | 0.17 | 35.3 |
| 5/2/2015 | 17:24:39 | 55.77 | 54.07 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 | 17:24:40 | 56.10 | 54.40 | 587 | 0.54 | 0.17 | 32.1 |
| 5/2/2015 | 17:24:42 | 56.43 | 54.73 | 316 | 0.54 | 0.17 | 17.3 |
| 5/2/2015 | 17:24:43 | 56.76 | 55.06 | 225 | 0.54 | 0.17 | 12.3 |
| 5/2/2015 | 17:24:44 | 56.87 | 55.17 | 198 | 0.54 | 0.17 | 10.8 |

## P214 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:20:14

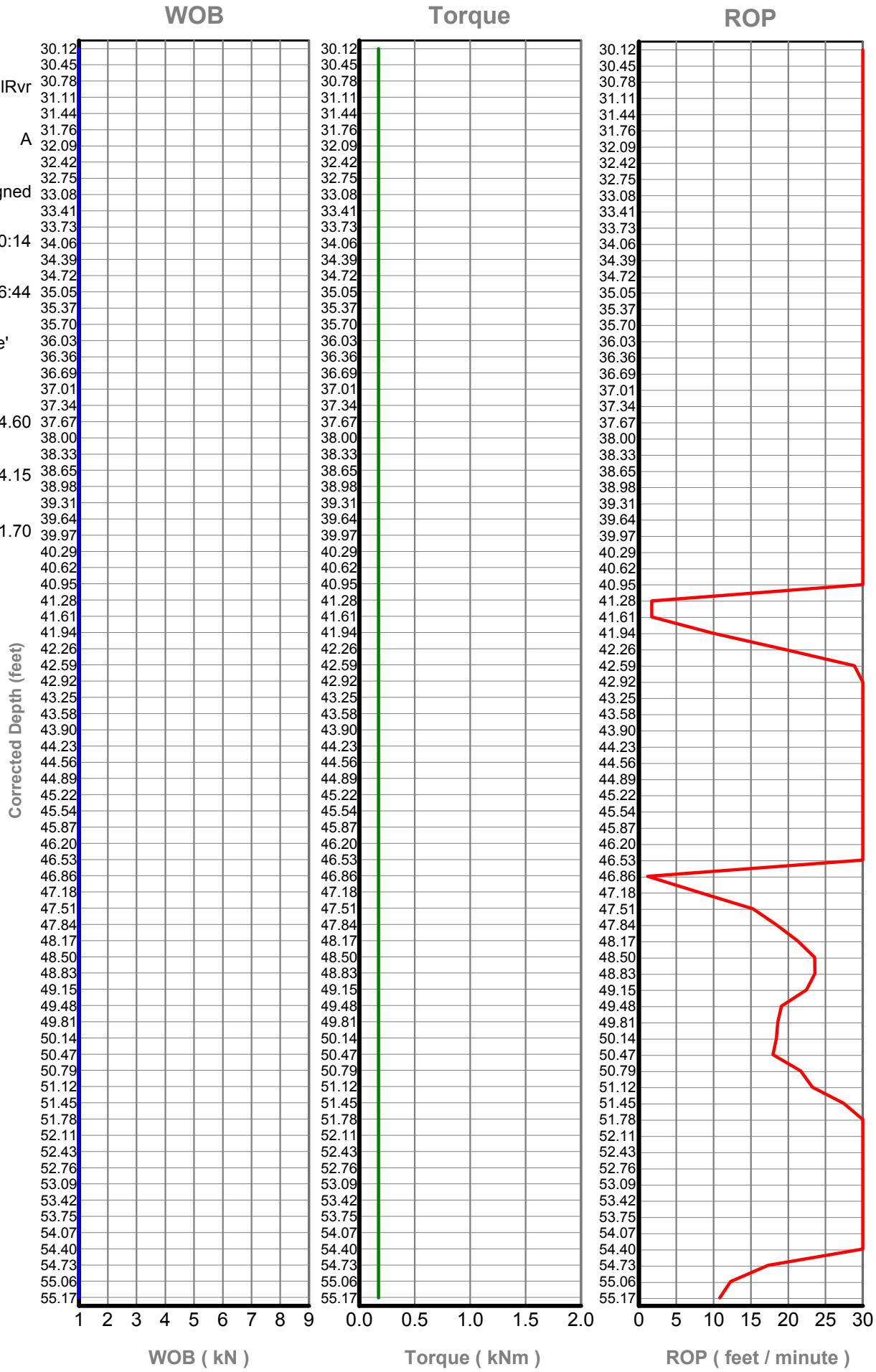
**End Date:**
5/2/2015 17:26:44

**Operator Note:**
'1.7 1.8 a Auto Complete'

**Northing:**
349,354.60

**Easting:**
225,614.15

**Tide (feet):**
1.70



## Hole: P215 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:21:51 | 31.82 | 30.12 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/2/2015 17:21:52 | 32.15 | 30.45 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/2/2015 17:21:52 | 32.48 | 30.78 | 1,273 | 0.31 | 0.39 | 69.6 |
| 5/2/2015 17:21:52 | 32.81 | 31.11 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 17:21:52 | 33.14 | 31.44 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 17:21:53 | 33.46 | 31.76 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 17:21:53 | 33.79 | 32.09 | 1,264 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 17:21:53 | 34.12 | 32.42 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 17:21:54 | 34.45 | 32.75 | 1,286 | 0.31 | 0.38 | 70.3 |
| 5/2/2015 17:21:54 | 34.78 | 33.08 | 1,301 | 0.31 | 0.39 | 71.2 |
| 5/2/2015 17:21:54 | 35.11 | 33.41 | 1,301 | 0.31 | 0.39 | 71.2 |
| 5/2/2015 17:21:54 | 35.43 | 33.73 | 1,304 | 0.31 | 0.39 | 71.3 |
| 5/2/2015 17:21:55 | 35.76 | 34.06 | 1,304 | 0.31 | 0.39 | 71.3 |
| 5/2/2015 17:21:55 | 36.09 | 34.39 | 1,317 | 0.31 | 0.40 | 72.0 |
| 5/2/2015 17:21:55 | 36.42 | 34.72 | 1,311 | 0.31 | 0.38 | 71.7 |
| 5/2/2015 17:21:56 | 36.75 | 35.05 | 1,311 | 0.31 | 0.38 | 71.7 |
| 5/2/2015 17:21:56 | 37.07 | 35.37 | 1,279 | 0.31 | 0.38 | 69.9 |
| 5/2/2015 17:21:56 | 37.40 | 35.70 | 1,279 | 0.31 | 0.38 | 69.9 |
| 5/2/2015 17:21:56 | 37.73 | 36.03 | 1,301 | 0.31 | 0.39 | 71.1 |
| 5/2/2015 17:21:57 | 38.06 | 36.36 | 1,301 | 0.31 | 0.39 | 71.1 |
| 5/2/2015 17:21:57 | 38.39 | 36.69 | 1,298 | 0.31 | 0.40 | 71.0 |
| 5/2/2015 17:21:57 | 38.71 | 37.01 | 1,298 | 0.31 | 0.40 | 71.0 |
| 5/2/2015 17:21:57 | 39.04 | 37.34 | 1,290 | 0.31 | 0.39 | 70.5 |
| 5/2/2015 17:21:58 | 39.37 | 37.67 | 1,290 | 0.31 | 0.39 | 70.5 |
| 5/2/2015 17:21:58 | 39.70 | 38.00 | 1,275 | 0.31 | 0.40 | 69.7 |
| 5/2/2015 17:21:58 | 40.03 | 38.33 | 1,275 | 0.31 | 0.40 | 69.7 |
| 5/2/2015 17:21:58 | 40.35 | 38.65 | 1,305 | 0.31 | 0.40 | 71.3 |
| 5/2/2015 17:21:59 | 40.68 | 38.98 | 1,305 | 0.31 | 0.40 | 71.3 |
| 5/2/2015 17:21:59 | 41.01 | 39.31 | 1,268 | 0.31 | 0.40 | 69.3 |
| 5/2/2015 17:21:59 | 41.34 | 39.64 | 1,268 | 0.31 | 0.40 | 69.3 |
| 5/2/2015 17:21:59 | 41.67 | 39.97 | 1,268 | 0.31 | 0.38 | 69.3 |
| 5/2/2015 17:22:00 | 41.99 | 40.29 | 1,270 | 0.33 | 0.39 | 69.5 |
| 5/2/2015 17:22:00 | 42.32 | 40.62 | 1,270 | 0.33 | 0.39 | 69.5 |
| 5/2/2015 17:22:00 | 42.65 | 40.95 | 1,270 | 0.31 | 0.40 | 69.5 |
| 5/2/2015 17:22:01 | 42.98 | 41.28 | 1,270 | 0.31 | 0.40 | 69.5 |
| 5/2/2015 17:22:01 | 43.31 | 41.61 | 1,275 | 0.31 | 0.40 | 69.7 |
| 5/2/2015 17:22:01 | 43.64 | 41.94 | 1,275 | 0.31 | 0.40 | 69.7 |
| 5/2/2015 17:22:01 | 43.96 | 42.26 | 1,298 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 17:22:02 | 44.29 | 42.59 | 1,298 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 17:22:02 | 44.62 | 42.92 | 1,275 | 0.31 | 0.38 | 69.7 |
| 5/2/2015 17:22:03 | 44.95 | 43.25 | 1,275 | 0.31 | 0.38 | 69.7 |
| 5/2/2015 17:22:03 | 45.28 | 43.58 | 1,305 | 0.31 | 0.39 | 71.4 |
| 5/2/2015 17:22:03 | 45.60 | 43.90 | 1,305 | 0.31 | 0.39 | 71.4 |
| 5/2/2015 17:22:03 | 45.93 | 44.23 | 1,300 | 0.31 | 0.38 | 71.1 |
| 5/2/2015 17:22:04 | 46.26 | 44.56 | 1,300 | 0.31 | 0.38 | 71.1 |
| 5/2/2015 17:22:04 | 46.59 | 44.89 | 1,283 | 0.31 | 0.40 | 70.2 |
| 5/2/2015 17:22:04 | 46.92 | 45.22 | 1,276 | 0.31 | 0.40 | 69.8 |
| 5/2/2015 17:22:05 | 47.24 | 45.54 | 1,276 | 0.31 | 0.40 | 69.8 |
| 5/2/2015 17:22:05 | 47.57 | 45.87 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/2/2015 17:22:05 | 47.90 | 46.20 | 1,286 | 0.31 | 0.40 | 70.3 |
| 5/2/2015 17:22:05 | 48.23 | 46.53 | 1,281 | 0.31 | 0.40 | 70.0 |
| 5/2/2015 17:22:06 | 48.56 | 46.86 | 1,281 | 0.31 | 0.40 | 70.0 |
| 5/2/2015 17:22:06 | 48.88 | 47.18 | 1,284 | 0.31 | 0.39 | 70.2 |
| 5/2/2015 17:22:06 | 49.21 | 47.51 | 1,284 | 0.31 | 0.39 | 70.2 |
| 5/2/2015 17:22:06 | 49.54 | 47.84 | 1,284 | 0.29 | 0.41 | 70.2 |
| 5/2/2015 17:22:07 | 49.87 | 48.17 | 1,284 | 0.29 | 0.41 | 70.2 |
| 5/2/2015 17:22:19 | 50.20 | 48.50 | 122 | 4.00 | 0.47 | 6.7 |
| 5/2/2015 17:22:20 | 50.53 | 48.83 | 202 | 3.02 | 0.44 | 11.1 |
| 5/2/2015 17:22:20 | 50.85 | 49.15 | 326 | 2.97 | 0.44 | 17.8 |
| 5/2/2015 17:22:21 | 51.18 | 49.48 | 405 | 3.16 | 0.45 | 22.2 |
| 5/2/2015 17:22:26 | 51.51 | 49.81 | 106 | 3.33 | 0.47 | 5.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:22:28 | 51.84 | 50.14 | 212 | 4.12 | 0.46 | 11.6 |
| 5/2/2015 | 17:22:28 | 52.17 | 50.47 | 238 | 4.01 | 0.44 | 13.0 |
| 5/2/2015 | 17:22:29 | 52.49 | 50.79 | 307 | 2.41 | 0.42 | 16.8 |
| 5/2/2015 | 17:22:35 | 52.82 | 51.12 | 75 | 5.10 | 0.48 | 4.1 |
| 5/2/2015 | 17:22:36 | 53.15 | 51.45 | 205 | 5.08 | 0.47 | 11.2 |
| 5/2/2015 | 17:22:36 | 53.48 | 51.78 | 248 | 3.34 | 0.45 | 13.5 |
| 5/2/2015 | 17:22:37 | 53.81 | 52.11 | 333 | 2.41 | 0.44 | 18.2 |
| 5/2/2015 | 17:22:37 | 54.13 | 52.43 | 473 | 2.42 | 0.45 | 25.9 |
| 5/2/2015 | 17:22:38 | 54.46 | 52.76 | 542 | 2.44 | 0.44 | 29.6 |
| 5/2/2015 | 17:22:38 | 54.79 | 53.09 | 542 | 2.14 | 0.43 | 29.6 |
| 5/2/2015 | 17:22:39 | 55.12 | 53.42 | 598 | 2.15 | 0.43 | 32.7 |
| 5/2/2015 | 17:22:39 | 55.45 | 53.75 | 658 | 2.23 | 0.44 | 36.0 |
| 5/2/2015 | 17:22:40 | 55.77 | 54.07 | 682 | 2.35 | 0.44 | 37.3 |
| 5/2/2015 | 17:22:40 | 56.10 | 54.40 | 662 | 2.12 | 0.44 | 36.2 |
| 5/2/2015 | 17:22:41 | 56.43 | 54.73 | 699 | 2.12 | 0.44 | 38.2 |
| 5/2/2015 | 17:22:41 | 56.76 | 55.06 | 682 | 2.10 | 0.44 | 37.3 |
| 5/2/2015 | 17:22:43 | 57.02 | 55.32 | 525 | 2.13 | 0.43 | 28.7 |

## P215 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:19:47

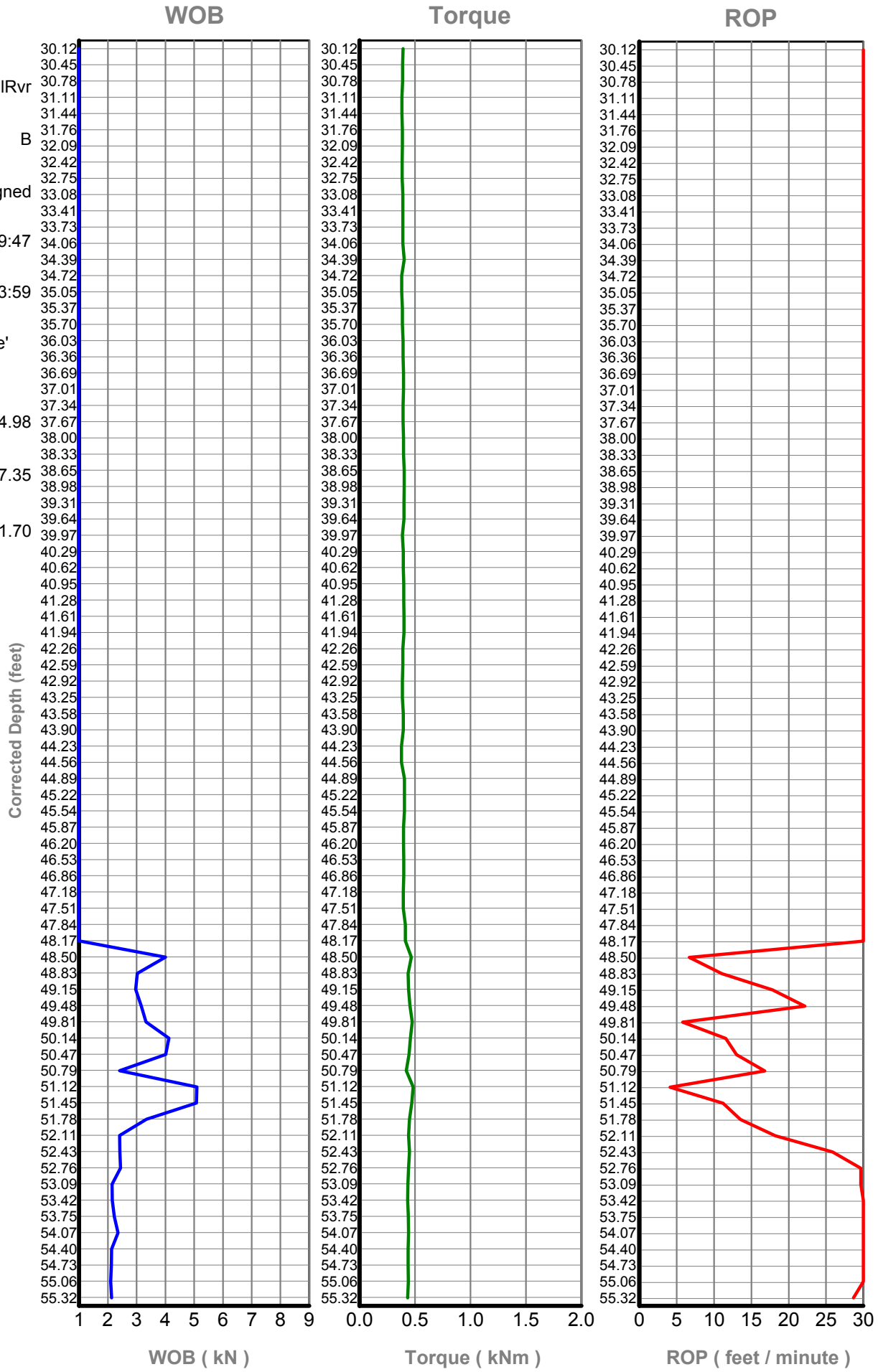
**End Date:**
5/2/2015 17:23:59

**Operator Note:**
'1.7 1.9 b Auto Complete'

**Northing:**
349,394.98

**Easting:**
225,677.35

**Tide (feet):**
1.70



## Hole: P216 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:20:52 | 31.82 | 30.12 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:20:53 | 32.15 | 30.45 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:20:53 | 32.48 | 30.78 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:20:53 | 32.81 | 31.11 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 17:20:54 | 33.14 | 31.44 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 17:20:54 | 33.46 | 31.76 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:20:54 | 33.79 | 32.09 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:20:55 | 34.12 | 32.42 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:20:55 | 34.45 | 32.75 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:20:56 | 34.78 | 33.08 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:20:56 | 35.11 | 33.41 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:20:56 | 35.43 | 33.73 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:20:57 | 35.76 | 34.06 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:20:57 | 36.09 | 34.39 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:20:57 | 36.42 | 34.72 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 17:20:58 | 36.75 | 35.05 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 17:20:58 | 37.07 | 35.37 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 17:20:58 | 37.40 | 35.70 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:20:59 | 37.73 | 36.03 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:20:59 | 38.06 | 36.36 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:20:59 | 38.39 | 36.69 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:21:00 | 38.71 | 37.01 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:21:00 | 39.04 | 37.34 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 17:21:00 | 39.37 | 37.67 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:01 | 39.70 | 38.00 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:01 | 40.03 | 38.33 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 17:21:01 | 40.35 | 38.65 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 17:21:01 | 40.68 | 38.98 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:21:02 | 41.01 | 39.31 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:21:02 | 41.34 | 39.64 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:21:02 | 41.67 | 39.97 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:21:03 | 41.99 | 40.29 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:21:03 | 42.32 | 40.62 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:21:03 | 42.65 | 40.95 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:04 | 42.98 | 41.28 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:04 | 43.31 | 41.61 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:04 | 43.64 | 41.94 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:05 | 43.96 | 42.26 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:21:05 | 44.29 | 42.59 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:21:05 | 44.62 | 42.92 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:21:06 | 44.95 | 43.25 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:21:06 | 45.28 | 43.58 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:21:06 | 45.60 | 43.90 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:07 | 45.93 | 44.23 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:07 | 46.26 | 44.56 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:07 | 46.59 | 44.89 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:08 | 46.92 | 45.22 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:08 | 47.24 | 45.54 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:09 | 47.57 | 45.87 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:09 | 47.90 | 46.20 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:21:09 | 48.23 | 46.53 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:21:10 | 48.56 | 46.86 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 17:21:23 | 48.88 | 47.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 17:21:23 | 49.21 | 47.51 | 59 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 17:21:24 | 49.54 | 47.84 | 230 | 1.14 | 0.29 | 12.6 |
| 5/2/2015 17:21:24 | 49.87 | 48.17 | 398 | 1.14 | 0.29 | 21.8 |
| 5/2/2015 17:21:25 | 50.20 | 48.50 | 561 | 1.14 | 0.29 | 30.7 |
| 5/2/2015 17:21:25 | 50.53 | 48.83 | 726 | 1.14 | 0.29 | 39.7 |
| 5/2/2015 17:21:26 | 50.85 | 49.15 | 726 | 1.14 | 0.29 | 39.7 |
| 5/2/2015 17:21:26 | 51.18 | 49.48 | 765 | 1.14 | 0.29 | 41.8 |
| 5/2/2015 17:21:27 | 51.51 | 49.81 | 709 | 1.14 | 0.29 | 38.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:21:27 | 51.84 | 50.14 | 695 | 1.14 | 0.29 | 38.0 |
| 5/2/2015 | 17:21:28 | 52.17 | 50.47 | 695 | 1.14 | 0.29 | 38.0 |
| 5/2/2015 | 17:21:28 | 52.49 | 50.79 | 696 | 1.14 | 0.29 | 38.1 |
| 5/2/2015 | 17:21:28 | 52.82 | 51.12 | 728 | 1.14 | 0.29 | 39.8 |
| 5/2/2015 | 17:21:29 | 53.15 | 51.45 | 779 | 1.14 | 0.29 | 42.6 |
| 5/2/2015 | 17:21:31 | 53.48 | 51.78 | 359 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 | 17:21:32 | 53.81 | 52.11 | 359 | 1.14 | 0.29 | 19.6 |
| 5/2/2015 | 17:21:32 | 54.13 | 52.43 | 356 | 1.14 | 0.29 | 19.5 |
| 5/2/2015 | 17:21:32 | 54.46 | 52.76 | 394 | 1.14 | 0.29 | 21.6 |
| 5/2/2015 | 17:21:33 | 54.79 | 53.09 | 566 | 1.14 | 0.29 | 30.9 |
| 5/2/2015 | 17:21:33 | 55.12 | 53.42 | 716 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 17:21:34 | 55.45 | 53.75 | 654 | 1.14 | 0.29 | 35.8 |
| 5/2/2015 | 17:21:36 | 55.77 | 54.07 | 290 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 | 17:21:49 | 56.10 | 54.40 | 43 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 17:21:51 | 56.43 | 54.73 | 233 | 1.14 | 0.29 | 12.7 |
| 5/2/2015 | 17:21:51 | 56.76 | 55.06 | 356 | 1.14 | 0.29 | 19.5 |
| 5/2/2015 | 17:21:52 | 56.89 | 55.19 | 393 | 1.14 | 0.29 | 21.5 |

## P216 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:19:39

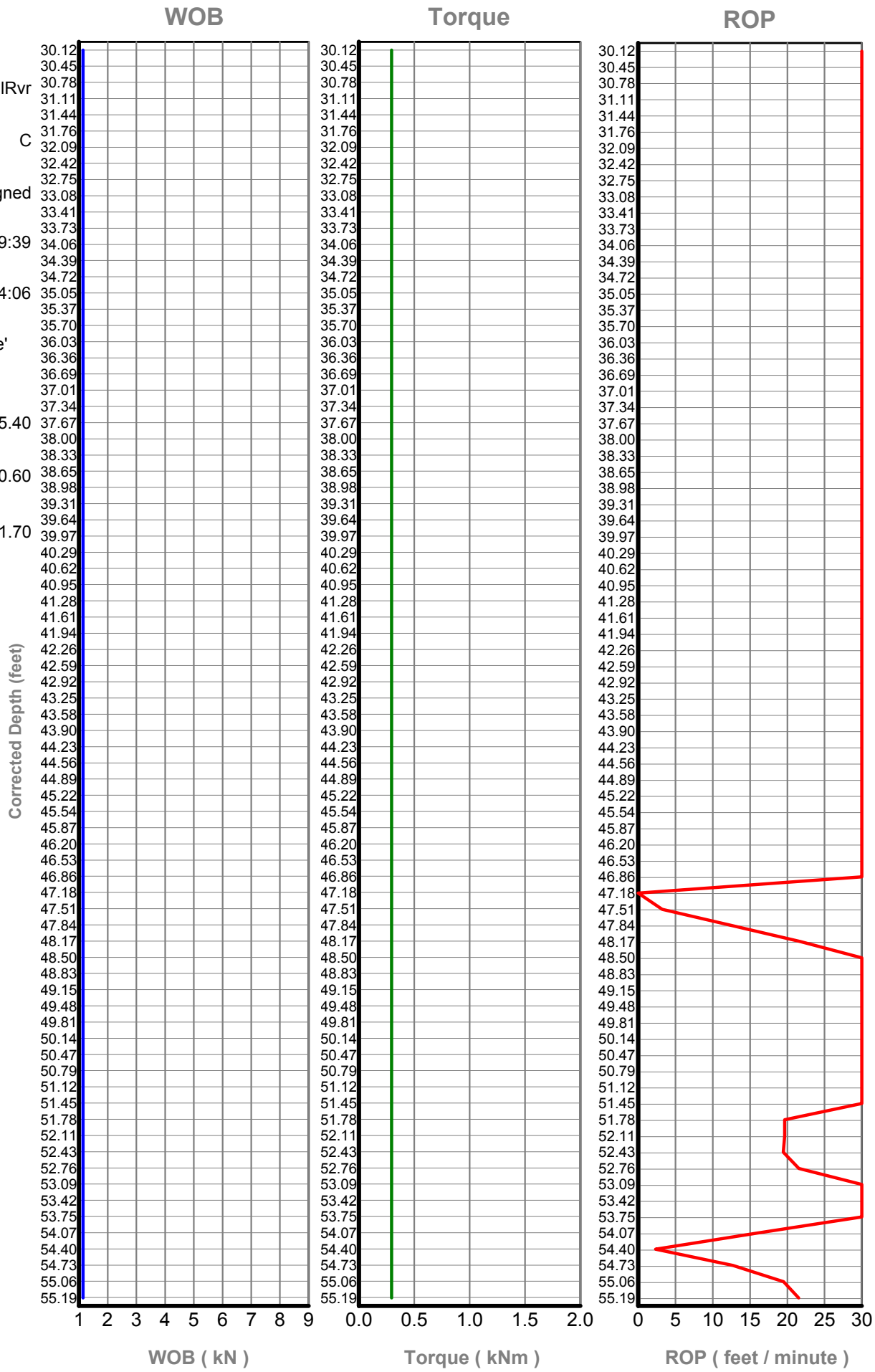
**End Date:**
5/2/2015 17:24:06

**Operator Note:**
'1.7 1.8 c Auto Complete'

**Northing:**
349,435.40

**Easting:**
225,740.60

**Tide (feet):**
1.70



## Hole: P217 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:31:19 | 30.84 | 30.04 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:31:19 | 31.17 | 30.37 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/3/2015 20:31:19 | 31.50 | 30.70 | 1,367 | 0.54 | 0.17 | 74.8 |
| 5/3/2015 20:31:19 | 31.82 | 31.02 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:31:20 | 32.15 | 31.35 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:31:20 | 32.48 | 31.68 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:31:20 | 32.81 | 32.01 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:31:20 | 33.14 | 32.34 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:21 | 33.46 | 32.66 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:21 | 33.79 | 32.99 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:31:21 | 34.12 | 33.32 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:31:21 | 34.45 | 33.65 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:22 | 34.78 | 33.98 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:22 | 35.11 | 34.31 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:22 | 35.43 | 34.63 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:22 | 35.76 | 34.96 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:23 | 36.09 | 35.29 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:23 | 36.42 | 35.62 | 1,345 | 0.54 | 0.17 | 73.5 |
| 5/3/2015 20:31:23 | 36.75 | 35.95 | 1,345 | 0.54 | 0.17 | 73.5 |
| 5/3/2015 20:31:23 | 37.07 | 36.27 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:24 | 37.40 | 36.60 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:24 | 37.73 | 36.93 | 1,354 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:31:24 | 38.06 | 37.26 | 1,354 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:31:24 | 38.39 | 37.59 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:25 | 38.71 | 37.91 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:25 | 39.04 | 38.24 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 20:31:25 | 39.37 | 38.57 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 20:31:25 | 39.70 | 38.90 | 1,366 | 0.54 | 0.17 | 74.7 |
| 5/3/2015 20:31:26 | 40.03 | 39.23 | 1,366 | 0.54 | 0.17 | 74.7 |
| 5/3/2015 20:31:26 | 40.35 | 39.55 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:26 | 40.68 | 39.88 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:31:26 | 41.01 | 40.21 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 20:31:27 | 41.34 | 40.54 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:28 | 41.67 | 40.87 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:31:27 | 41.99 | 41.19 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 20:31:28 | 42.32 | 41.52 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 20:31:28 | 42.65 | 41.85 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:31:29 | 42.98 | 42.18 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:31:29 | 43.31 | 42.51 | 1,263 | 0.54 | 0.17 | 69.1 |
| 5/3/2015 20:31:29 | 43.64 | 42.84 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/3/2015 20:31:30 | 43.96 | 43.16 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/3/2015 20:31:33 | 44.29 | 43.49 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 20:31:33 | 44.62 | 43.82 | 130 | 0.54 | 0.17 | 7.1 |
| 5/3/2015 20:31:34 | 44.95 | 44.15 | 130 | 0.54 | 0.17 | 7.1 |
| 5/3/2015 20:31:34 | 45.28 | 44.48 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 20:31:34 | 45.60 | 44.80 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 20:31:34 | 45.93 | 45.13 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 20:31:35 | 46.26 | 45.46 | 415 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 20:31:35 | 46.59 | 45.79 | 709 | 0.54 | 0.17 | 38.8 |
| 5/3/2015 20:31:36 | 46.92 | 46.12 | 709 | 0.54 | 0.17 | 38.8 |
| 5/3/2015 20:31:45 | 47.24 | 46.44 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 20:31:46 | 47.57 | 46.77 | 191 | 0.54 | 0.17 | 10.4 |
| 5/3/2015 20:31:49 | 47.90 | 47.10 | 119 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 20:31:51 | 48.23 | 47.43 | 133 | 0.54 | 0.17 | 7.3 |
| 5/3/2015 20:31:59 | 48.56 | 47.76 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 20:32:00 | 48.88 | 48.08 | 155 | 0.54 | 0.17 | 8.5 |
| 5/3/2015 20:32:01 | 49.21 | 48.41 | 252 | 0.54 | 0.17 | 13.8 |
| 5/3/2015 20:32:02 | 49.54 | 48.74 | 342 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 20:32:03 | 49.87 | 49.07 | 376 | 0.54 | 0.17 | 20.6 |
| 5/3/2015 20:32:05 | 50.20 | 49.40 | 348 | 0.54 | 0.17 | 19.0 |
| 5/3/2015 20:32:11 | 50.53 | 49.73 | 39 | 0.54 | 0.17 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:32:11 | 50.85 | 50.05 | 71 | 0.54 | 0.17 | 3.9 |
| 5/3/2015 | 20:32:12 | 51.18 | 50.38 | 296 | 0.54 | 0.17 | 16.2 |
| 5/3/2015 | 20:32:12 | 51.51 | 50.71 | 296 | 0.54 | 0.17 | 16.2 |
| 5/3/2015 | 20:32:20 | 51.84 | 51.04 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 20:32:21 | 52.17 | 51.37 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 | 20:32:21 | 52.49 | 51.69 | 246 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 | 20:32:22 | 52.82 | 52.02 | 246 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 | 20:32:22 | 53.15 | 52.35 | 417 | 0.54 | 0.17 | 22.8 |
| 5/3/2015 | 20:32:22 | 53.48 | 52.68 | 417 | 0.54 | 0.17 | 22.8 |
| 5/3/2015 | 20:32:23 | 53.81 | 53.01 | 417 | 0.54 | 0.17 | 22.8 |
| 5/3/2015 | 20:32:24 | 54.13 | 53.33 | 477 | 0.54 | 0.17 | 26.1 |
| 5/3/2015 | 20:32:25 | 54.46 | 53.66 | 487 | 0.54 | 0.17 | 26.7 |
| 5/3/2015 | 20:32:25 | 54.79 | 53.99 | 487 | 0.54 | 0.17 | 26.7 |
| 5/3/2015 | 20:32:25 | 55.12 | 54.32 | 485 | 0.54 | 0.17 | 26.5 |
| 5/3/2015 | 20:32:26 | 55.45 | 54.65 | 485 | 0.54 | 0.17 | 26.5 |
| 5/3/2015 | 20:32:26 | 55.77 | 54.97 | 485 | 0.54 | 0.17 | 26.5 |
| 5/3/2015 | 20:32:26 | 56.10 | 55.30 | 690 | 0.54 | 0.17 | 37.7 |
| 5/3/2015 | 20:32:27 | 56.43 | 55.63 | 690 | 0.54 | 0.17 | 37.7 |
| 5/3/2015 | 20:32:26 | 56.62 | 55.82 | 690 | 0.54 | 0.17 | 37.7 |

## P217 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:23:39

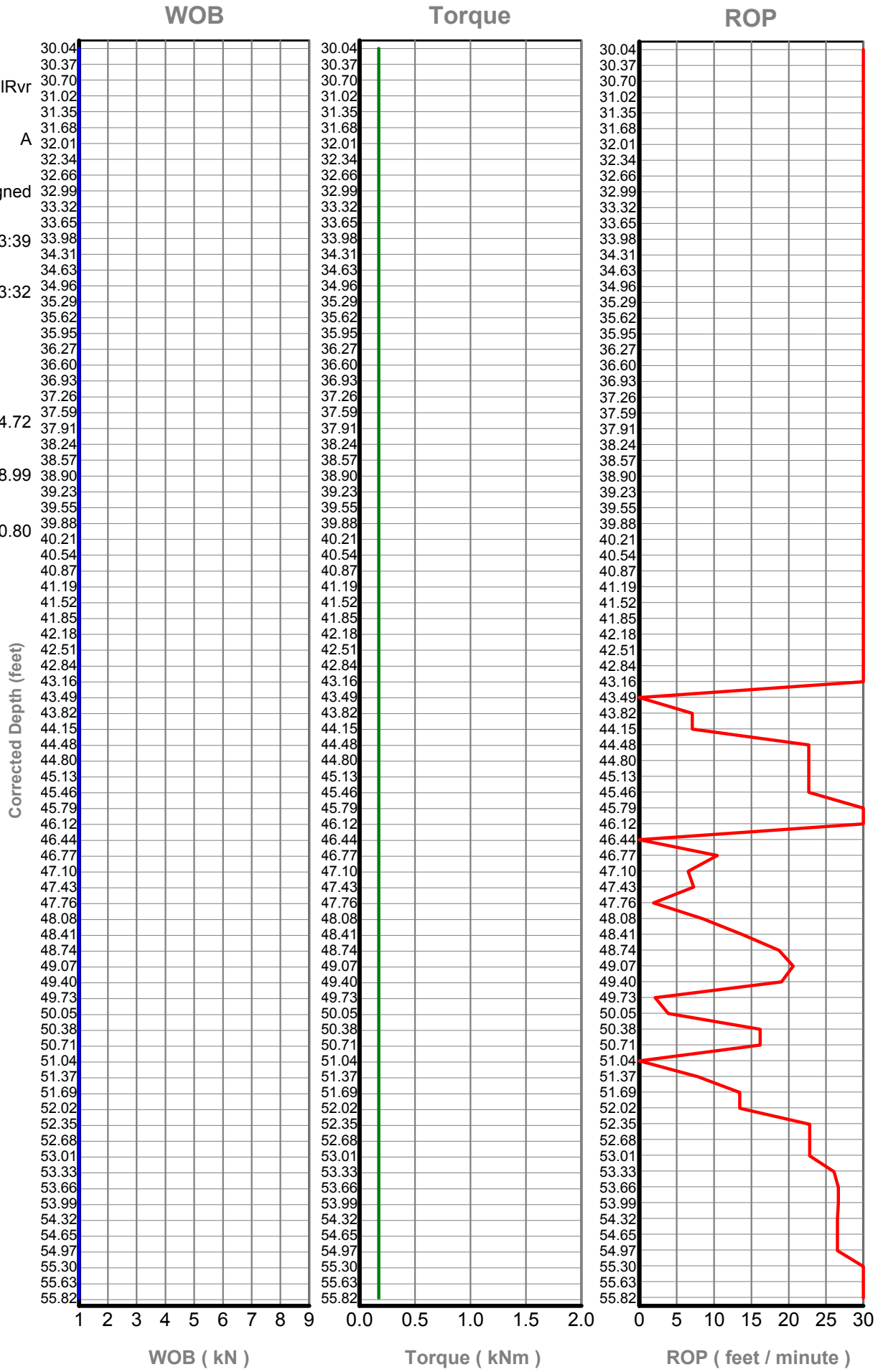
**End Date:**
5/3/2015 20:33:32

**Operator Note:**
'0.8 .8 a Auto Complete'

**Northing:**
348,454.72

**Easting:**
224,318.99

**Tide (feet):**
0.80



## Hole: P218 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:32:31 | 31.17 | 30.17 | 1,178 | 0.31 | 0.39 | 64.4 |
| 5/3/2015 20:32:31 | 31.50 | 30.50 | 1,178 | 0.31 | 0.39 | 64.4 |
| 5/3/2015 20:32:31 | 31.82 | 30.82 | 1,178 | 0.31 | 0.38 | 64.4 |
| 5/3/2015 20:32:32 | 32.15 | 31.15 | 1,178 | 0.31 | 0.38 | 64.4 |
| 5/3/2015 20:32:32 | 32.48 | 31.48 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 20:32:32 | 32.81 | 31.81 | 1,201 | 0.30 | 0.40 | 65.7 |
| 5/3/2015 20:32:33 | 33.14 | 32.14 | 1,201 | 0.30 | 0.40 | 65.7 |
| 5/3/2015 20:32:33 | 33.46 | 32.46 | 1,227 | 0.33 | 0.40 | 67.1 |
| 5/3/2015 20:32:33 | 33.79 | 32.79 | 1,227 | 0.33 | 0.40 | 67.1 |
| 5/3/2015 20:32:33 | 34.12 | 33.12 | 1,221 | 0.31 | 0.39 | 66.8 |
| 5/3/2015 20:32:34 | 34.45 | 33.45 | 1,221 | 0.31 | 0.39 | 66.8 |
| 5/3/2015 20:32:34 | 34.78 | 33.78 | 1,214 | 0.32 | 0.40 | 66.4 |
| 5/3/2015 20:32:34 | 35.11 | 34.11 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/3/2015 20:32:35 | 35.43 | 34.43 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/3/2015 20:32:35 | 35.76 | 34.76 | 1,196 | 0.30 | 0.39 | 65.4 |
| 5/3/2015 20:32:35 | 36.09 | 35.09 | 1,196 | 0.30 | 0.39 | 65.4 |
| 5/3/2015 20:32:35 | 36.42 | 35.42 | 1,196 | 0.31 | 0.37 | 65.4 |
| 5/3/2015 20:32:36 | 36.75 | 35.75 | 1,196 | 0.31 | 0.37 | 65.4 |
| 5/3/2015 20:32:36 | 37.07 | 36.07 | 1,209 | 0.29 | 0.40 | 66.1 |
| 5/3/2015 20:32:36 | 37.40 | 36.40 | 1,198 | 0.30 | 0.38 | 65.5 |
| 5/3/2015 20:32:37 | 37.73 | 36.73 | 1,198 | 0.30 | 0.38 | 65.5 |
| 5/3/2015 20:32:37 | 38.06 | 37.06 | 1,204 | 0.29 | 0.41 | 65.8 |
| 5/3/2015 20:32:37 | 38.39 | 37.39 | 1,204 | 0.29 | 0.41 | 65.8 |
| 5/3/2015 20:32:37 | 38.71 | 37.71 | 1,225 | 0.30 | 0.39 | 67.0 |
| 5/3/2015 20:32:38 | 39.04 | 38.04 | 1,225 | 0.30 | 0.39 | 67.0 |
| 5/3/2015 20:32:38 | 39.37 | 38.37 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 20:32:38 | 39.70 | 38.70 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 20:32:39 | 40.03 | 39.03 | 1,226 | 0.29 | 0.48 | 67.0 |
| 5/3/2015 20:32:39 | 40.35 | 39.35 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/3/2015 20:32:40 | 40.68 | 39.68 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/3/2015 20:32:40 | 41.01 | 40.01 | 1,237 | 0.30 | 0.40 | 67.6 |
| 5/3/2015 20:32:40 | 41.34 | 40.34 | 1,237 | 0.30 | 0.40 | 67.6 |
| 5/3/2015 20:32:40 | 41.67 | 40.67 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/3/2015 20:32:41 | 41.99 | 40.99 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/3/2015 20:32:41 | 42.32 | 41.32 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 20:32:41 | 42.65 | 41.65 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 20:32:41 | 42.98 | 41.98 | 1,232 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 20:32:42 | 43.31 | 42.31 | 1,233 | 0.30 | 0.38 | 67.4 |
| 5/3/2015 20:32:42 | 43.64 | 42.64 | 1,233 | 0.30 | 0.38 | 67.4 |
| 5/3/2015 20:32:42 | 43.96 | 42.96 | 1,229 | 0.30 | 0.38 | 67.2 |
| 5/3/2015 20:32:43 | 44.29 | 43.29 | 1,229 | 0.30 | 0.38 | 67.2 |
| 5/3/2015 20:32:43 | 44.62 | 43.62 | 1,229 | 0.31 | 0.40 | 67.2 |
| 5/3/2015 20:32:43 | 44.95 | 43.95 | 1,229 | 0.31 | 0.40 | 67.2 |
| 5/3/2015 20:32:43 | 45.28 | 44.28 | 1,242 | 0.32 | 0.38 | 67.9 |
| 5/3/2015 20:32:44 | 45.60 | 44.60 | 1,242 | 0.32 | 0.38 | 67.9 |
| 5/3/2015 20:32:44 | 45.93 | 44.93 | 1,232 | 0.31 | 0.40 | 67.3 |
| 5/3/2015 20:32:44 | 46.26 | 45.26 | 1,239 | 0.31 | 0.39 | 67.8 |
| 5/3/2015 20:32:45 | 46.59 | 45.59 | 1,239 | 0.31 | 0.39 | 67.8 |
| 5/3/2015 20:32:45 | 46.92 | 45.92 | 1,231 | 0.31 | 0.40 | 67.3 |
| 5/3/2015 20:32:45 | 47.24 | 46.24 | 1,231 | 0.31 | 0.40 | 67.3 |
| 5/3/2015 20:32:45 | 47.57 | 46.57 | 1,237 | 0.30 | 0.38 | 67.7 |
| 5/3/2015 20:32:46 | 47.90 | 46.90 | 1,237 | 0.30 | 0.38 | 67.7 |
| 5/3/2015 20:32:46 | 48.23 | 47.23 | 1,234 | 0.30 | 0.43 | 67.5 |
| 5/3/2015 20:32:52 | 48.56 | 47.56 | 32 | 3.60 | 0.49 | 1.8 |
| 5/3/2015 20:32:53 | 48.88 | 47.88 | 145 | 5.80 | 0.41 | 7.9 |
| 5/3/2015 20:32:56 | 49.21 | 48.21 | 86 | 2.35 | 0.42 | 4.7 |
| 5/3/2015 20:32:57 | 49.54 | 48.54 | 86 | 2.35 | 0.42 | 4.7 |
| 5/3/2015 20:32:57 | 49.87 | 48.87 | 265 | 2.26 | 0.41 | 14.5 |
| 5/3/2015 20:32:57 | 50.20 | 49.20 | 465 | 2.18 | 0.41 | 25.4 |
| 5/3/2015 20:32:58 | 50.53 | 49.53 | 665 | 2.11 | 0.40 | 36.4 |
| 5/3/2015 20:32:58 | 50.85 | 49.85 | 665 | 2.11 | 0.40 | 36.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:32:58 | 51.18 | 50.18 | 886 | 2.14 | 0.41 | 48.4 |
| 5/3/2015 | 20:32:59 | 51.51 | 50.51 | 886 | 2.14 | 0.41 | 48.4 |
| 5/3/2015 | 20:32:59 | 51.84 | 50.84 | 1,000 | 2.93 | 0.43 | 54.7 |
| 5/3/2015 | 20:32:59 | 52.17 | 51.17 | 969 | 2.95 | 0.42 | 53.0 |
| 5/3/2015 | 20:33:00 | 52.49 | 51.49 | 940 | 2.34 | 0.42 | 51.4 |
| 5/3/2015 | 20:33:01 | 52.82 | 51.82 | 920 | 2.31 | 0.43 | 50.3 |
| 5/3/2015 | 20:33:01 | 53.15 | 52.15 | 864 | 2.63 | 0.45 | 47.2 |
| 5/3/2015 | 20:33:02 | 53.48 | 52.48 | 784 | 3.16 | 0.46 | 42.9 |
| 5/3/2015 | 20:33:02 | 53.81 | 52.81 | 727 | 2.57 | 0.43 | 39.7 |
| 5/3/2015 | 20:33:03 | 54.13 | 53.13 | 691 | 2.33 | 0.42 | 37.8 |
| 5/3/2015 | 20:33:03 | 54.46 | 53.46 | 677 | 2.22 | 0.43 | 37.0 |
| 5/3/2015 | 20:33:04 | 54.79 | 53.79 | 678 | 2.21 | 0.42 | 37.1 |
| 5/3/2015 | 20:33:04 | 55.12 | 54.12 | 678 | 2.21 | 0.42 | 37.1 |
| 5/3/2015 | 20:33:06 | 55.45 | 54.45 | 163 | 2.10 | 0.42 | 8.9 |
| 5/3/2015 | 20:33:07 | 55.77 | 54.77 | 168 | 2.23 | 0.43 | 9.2 |
| 5/3/2015 | 20:33:07 | 56.10 | 55.10 | 336 | 2.14 | 0.42 | 18.4 |
| 5/3/2015 | 20:33:08 | 56.43 | 55.43 | 497 | 2.12 | 0.42 | 27.2 |
| 5/3/2015 | 20:33:08 | 56.72 | 55.72 | 497 | 2.12 | 0.42 | 27.2 |

## P218 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:31:10

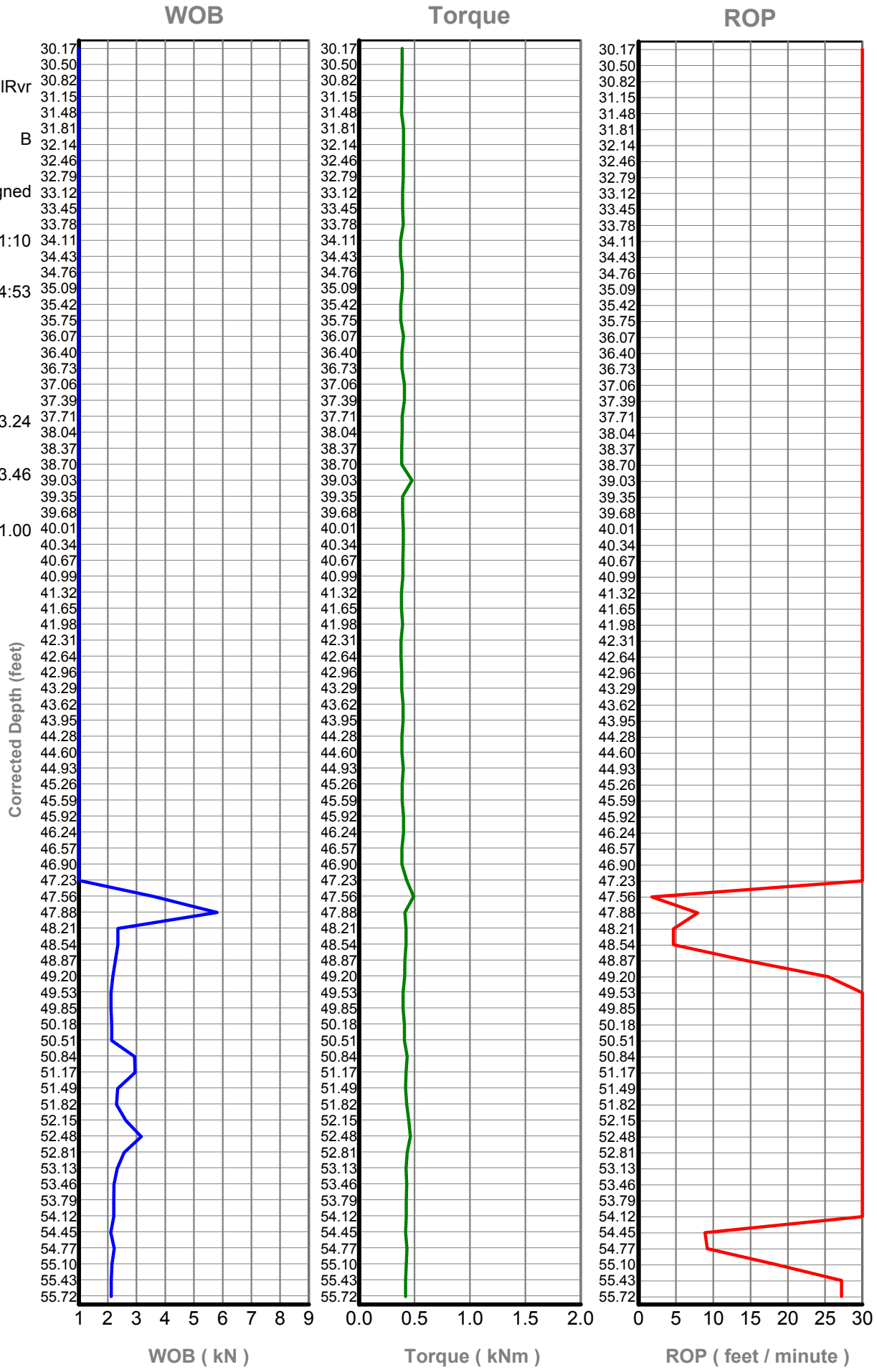
**End Date:**
5/3/2015 20:34:53

**Operator Note:**
'1 0.8b Auto Complete'

**Northing:**
348,493.24

**Easting:**
224,383.46

**Tide (feet):**
1.00



## Hole: P219 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:30:52 | 31.17 | 30.17 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:30:52 | 31.50 | 30.50 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:30:53 | 31.82 | 30.82 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:30:53 | 32.15 | 31.15 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:30:53 | 32.48 | 31.48 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 20:30:53 | 32.81 | 31.81 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 20:30:54 | 33.14 | 32.14 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:30:54 | 33.46 | 32.46 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:30:54 | 33.79 | 32.79 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 20:30:55 | 34.12 | 33.12 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:30:55 | 34.45 | 33.45 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:30:55 | 34.78 | 33.78 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 20:30:56 | 35.11 | 34.11 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:30:56 | 35.43 | 34.43 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:30:56 | 35.76 | 34.76 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:30:57 | 36.09 | 35.09 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 20:30:57 | 36.42 | 35.42 | 1,076 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 20:30:57 | 36.75 | 35.75 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 20:30:58 | 37.07 | 36.07 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 20:30:58 | 37.40 | 36.40 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:30:58 | 37.73 | 36.73 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:30:59 | 38.06 | 37.06 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:30:59 | 38.39 | 37.39 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 20:30:59 | 38.71 | 37.71 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:31:00 | 39.04 | 38.04 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 20:31:00 | 39.37 | 38.37 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:01 | 39.70 | 38.70 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:01 | 40.03 | 39.03 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:01 | 40.35 | 39.35 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:31:02 | 40.68 | 39.68 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:31:02 | 41.01 | 40.01 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:31:02 | 41.34 | 40.34 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:31:03 | 41.67 | 40.67 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 20:31:02 | 41.99 | 40.99 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:03 | 42.32 | 41.32 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:03 | 42.65 | 41.65 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:04 | 42.98 | 41.98 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 20:31:04 | 43.31 | 42.31 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:05 | 43.64 | 42.64 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:05 | 43.96 | 42.96 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 20:31:05 | 44.29 | 43.29 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 20:31:06 | 44.62 | 43.62 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 20:31:06 | 44.95 | 43.95 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 20:31:06 | 45.28 | 44.28 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 20:31:07 | 45.60 | 44.60 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 20:31:07 | 45.93 | 44.93 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 20:31:07 | 46.26 | 45.26 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 20:31:08 | 46.59 | 45.59 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 20:31:08 | 46.92 | 45.92 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:08 | 47.24 | 46.24 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:08 | 47.57 | 46.57 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:09 | 47.90 | 46.90 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:09 | 48.23 | 47.23 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:09 | 48.56 | 47.56 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:31:17 | 48.88 | 47.88 | 100 | 1.14 | 0.29 | 5.5 |
| 5/3/2015 20:31:18 | 49.21 | 48.21 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 20:31:19 | 49.54 | 48.54 | 302 | 1.14 | 0.29 | 16.5 |
| 5/3/2015 20:31:22 | 49.87 | 48.87 | 103 | 1.14 | 0.29 | 5.6 |
| 5/3/2015 20:31:24 | 50.20 | 49.20 | 158 | 1.14 | 0.29 | 8.6 |
| 5/3/2015 20:31:24 | 50.53 | 49.53 | 273 | 1.14 | 0.29 | 14.9 |
| 5/3/2015 20:31:25 | 50.85 | 49.85 | 399 | 1.14 | 0.29 | 21.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:31:25 | 51.18 | 50.18 | 490 | 1.14 | 0.29 | 26.8 |
| 5/3/2015 | 20:31:33 | 51.51 | 50.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 20:31:34 | 51.84 | 50.84 | 60 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 | 20:31:34 | 52.17 | 51.17 | 134 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 | 20:31:35 | 52.49 | 51.49 | 271 | 1.14 | 0.29 | 14.8 |
| 5/3/2015 | 20:31:36 | 52.82 | 51.82 | 435 | 1.14 | 0.29 | 23.8 |
| 5/3/2015 | 20:31:45 | 53.15 | 52.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 20:31:46 | 53.48 | 52.48 | 135 | 1.14 | 0.29 | 7.4 |
| 5/3/2015 | 20:31:46 | 53.81 | 52.81 | 281 | 1.14 | 0.29 | 15.4 |
| 5/3/2015 | 20:31:47 | 54.13 | 53.13 | 440 | 1.14 | 0.29 | 24.0 |
| 5/3/2015 | 20:31:48 | 54.46 | 53.46 | 603 | 1.14 | 0.29 | 33.0 |
| 5/3/2015 | 20:31:48 | 54.79 | 53.79 | 603 | 1.14 | 0.29 | 33.0 |
| 5/3/2015 | 20:31:48 | 55.12 | 54.12 | 767 | 1.14 | 0.29 | 42.0 |
| 5/3/2015 | 20:31:49 | 55.45 | 54.45 | 791 | 1.14 | 0.29 | 43.3 |
| 5/3/2015 | 20:31:49 | 55.77 | 54.77 | 787 | 1.14 | 0.29 | 43.0 |
| 5/3/2015 | 20:31:49 | 55.93 | 54.93 | 787 | 1.14 | 0.29 | 43.0 |

## P219 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:29:58

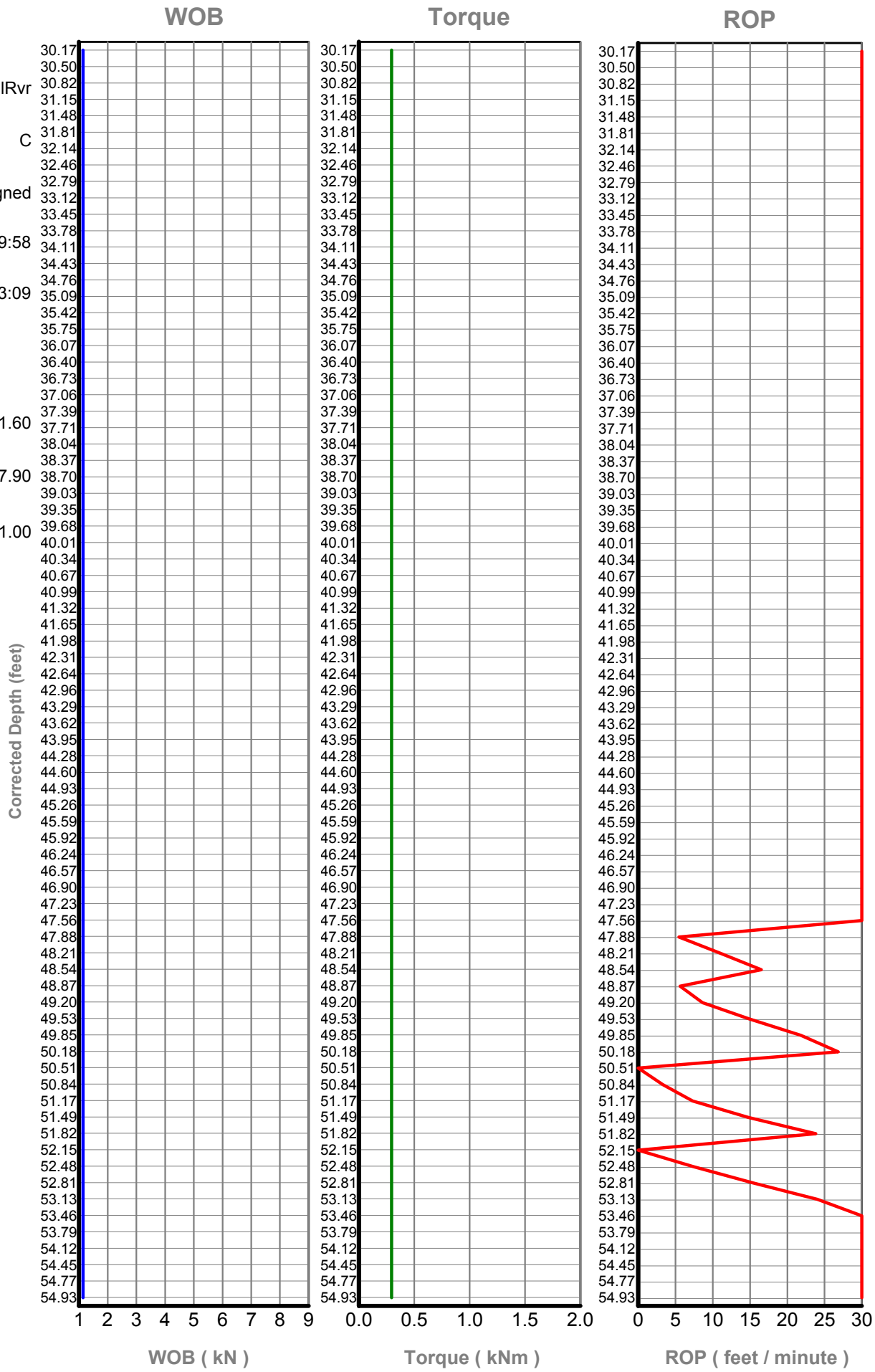
**End Date:**
5/3/2015 20:33:09

**Operator Note:**
'1 0.8 c Auto Complete'

**Northing:**
348,531.60

**Easting:**
224,447.90

**Tide (feet):**
1.00



## Hole: P22 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:18:11 | 34.12 | 30.02 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:12 | 34.45 | 30.35 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:12 | 34.78 | 30.68 | 1,029 | 0.54 | 0.17 | 56.3 |
| 5/3/2015 4:18:12 | 35.11 | 31.01 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:13 | 35.43 | 31.33 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:13 | 35.76 | 31.66 | 1,029 | 0.54 | 0.17 | 56.3 |
| 5/3/2015 4:18:13 | 36.09 | 31.99 | 1,026 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:14 | 36.42 | 32.32 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:14 | 36.75 | 32.65 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:14 | 37.07 | 32.97 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 4:18:15 | 37.40 | 33.30 | 1,025 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:15 | 37.73 | 33.63 | 1,025 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:15 | 38.06 | 33.96 | 1,025 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:16 | 38.39 | 34.29 | 1,025 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:16 | 38.71 | 34.61 | 1,025 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:16 | 39.04 | 34.94 | 1,027 | 0.54 | 0.17 | 56.2 |
| 5/3/2015 4:18:17 | 39.37 | 35.27 | 1,036 | 0.54 | 0.17 | 56.6 |
| 5/3/2015 4:18:17 | 39.70 | 35.60 | 1,036 | 0.54 | 0.17 | 56.6 |
| 5/3/2015 4:18:17 | 40.03 | 35.93 | 1,026 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:18 | 40.35 | 36.25 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:18 | 40.68 | 36.58 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:18 | 41.01 | 36.91 | 1,026 | 0.54 | 0.17 | 56.1 |
| 5/3/2015 4:18:19 | 41.34 | 37.24 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:19 | 41.67 | 37.57 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 4:18:19 | 41.99 | 37.89 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 4:18:20 | 42.32 | 38.22 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 4:18:20 | 42.65 | 38.55 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 4:18:21 | 42.98 | 38.88 | 1,021 | 0.54 | 0.17 | 55.8 |
| 5/3/2015 4:18:31 | 43.31 | 39.21 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 4:18:32 | 43.64 | 39.54 | 62 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 4:18:32 | 43.96 | 39.86 | 265 | 0.54 | 0.17 | 14.5 |
| 5/3/2015 4:18:33 | 44.29 | 40.19 | 465 | 0.54 | 0.17 | 25.4 |
| 5/3/2015 4:18:33 | 44.62 | 40.52 | 465 | 0.54 | 0.17 | 25.4 |
| 5/3/2015 4:18:33 | 44.95 | 40.85 | 668 | 0.54 | 0.17 | 36.5 |
| 5/3/2015 4:18:34 | 45.28 | 41.18 | 865 | 0.54 | 0.17 | 47.3 |
| 5/3/2015 4:18:34 | 45.60 | 41.50 | 865 | 0.54 | 0.17 | 47.3 |
| 5/3/2015 4:18:34 | 45.93 | 41.83 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 4:18:35 | 46.26 | 42.16 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 4:18:52 | 46.59 | 42.49 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 4:18:58 | 46.92 | 42.82 | 63 | 0.54 | 0.17 | 3.4 |
| 5/3/2015 4:18:58 | 47.24 | 43.14 | 163 | 0.54 | 0.17 | 8.9 |
| 5/3/2015 4:18:59 | 47.57 | 43.47 | 320 | 0.54 | 0.17 | 17.5 |
| 5/3/2015 4:18:59 | 47.90 | 43.80 | 320 | 0.54 | 0.17 | 17.5 |
| 5/3/2015 4:18:59 | 48.23 | 44.13 | 529 | 0.54 | 0.17 | 28.9 |
| 5/3/2015 4:19:02 | 48.56 | 44.46 | 404 | 0.54 | 0.17 | 22.1 |
| 5/3/2015 4:19:12 | 48.88 | 44.78 | 21 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 4:19:15 | 49.21 | 45.11 | 113 | 0.54 | 0.17 | 6.2 |
| 5/3/2015 4:19:18 | 49.54 | 45.44 | 104 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 4:19:24 | 49.87 | 45.77 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 4:19:26 | 50.20 | 46.10 | 142 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 4:19:28 | 50.53 | 46.43 | 148 | 0.54 | 0.17 | 8.1 |
| 5/3/2015 4:19:31 | 50.85 | 46.75 | 137 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 4:22:56 | 51.18 | 47.08 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 4:23:00 | 51.51 | 47.41 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 4:23:07 | 51.84 | 47.74 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 4:23:11 | 52.17 | 48.07 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 4:23:16 | 52.49 | 48.39 | 82 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 4:23:20 | 52.82 | 48.72 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 4:23:23 | 53.15 | 49.05 | 99 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 4:23:29 | 53.48 | 49.38 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 4:23:36 | 53.81 | 49.71 | 42 | 0.54 | 0.17 | 2.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:23:54 | 54.13 | 50.03 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 | 4:24:13 | 54.46 | 50.36 | 18 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 | 4:24:20 | 54.58 | 50.48 | 22 | 0.54 | 0.17 | 1.2 |

## P22 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:38:22

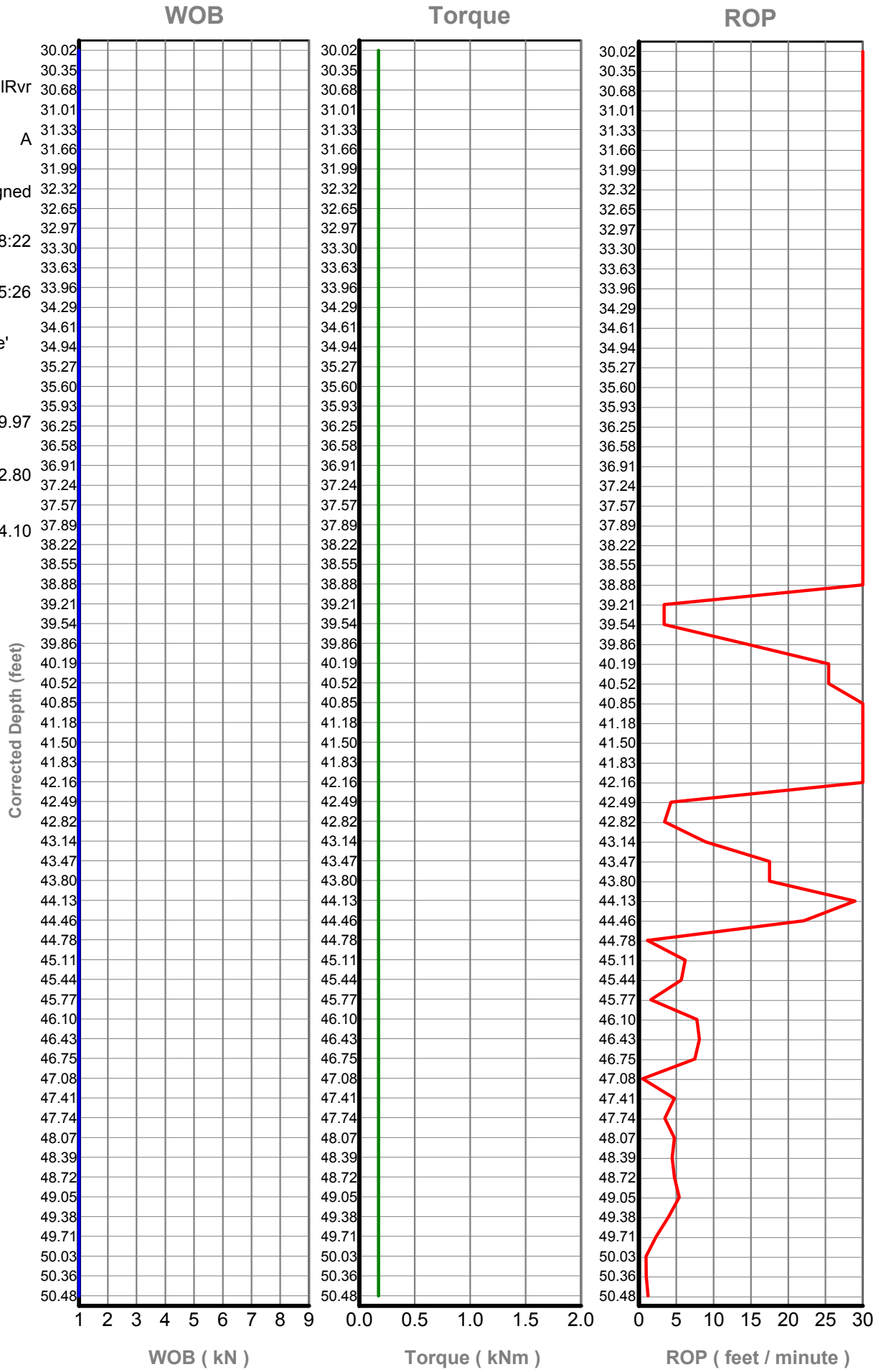
**End Date:**
5/3/2015 4:25:26

**Operator Note:**
'4.1 3.6 a Auto Complete'

**Northing:**
349,439.97

**Easting:**
224,762.80

**Tide (feet):**
4.10



## Hole: P220 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:50:53 | 31.82 | 30.22 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:50:54 | 32.15 | 30.55 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:50:54 | 32.48 | 30.88 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:50:54 | 32.81 | 31.21 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:50:55 | 33.14 | 31.54 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:55 | 33.46 | 31.86 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:56 | 33.79 | 32.19 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:56 | 34.12 | 32.52 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:56 | 34.45 | 32.85 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:57 | 34.78 | 33.18 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:50:57 | 35.11 | 33.51 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:58 | 35.43 | 33.83 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:50:58 | 35.76 | 34.16 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:50:58 | 36.09 | 34.49 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:59 | 36.42 | 34.82 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:50:59 | 36.75 | 35.15 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:00 | 37.07 | 35.47 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:00 | 37.40 | 35.80 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:00 | 37.73 | 36.13 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:01 | 38.06 | 36.46 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:01 | 38.39 | 36.79 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:02 | 38.71 | 37.11 | 876 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:02 | 39.04 | 37.44 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 17:51:02 | 39.37 | 37.77 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 17:51:03 | 39.70 | 38.10 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 17:51:03 | 40.03 | 38.43 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:04 | 40.35 | 38.75 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:04 | 40.68 | 39.08 | 881 | 0.54 | 0.17 | 48.2 |
| 5/3/2015 17:51:05 | 41.01 | 39.41 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:51:05 | 41.34 | 39.74 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:06 | 41.67 | 40.07 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:06 | 41.99 | 40.39 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:51:06 | 42.32 | 40.72 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:51:07 | 42.65 | 41.05 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:07 | 42.98 | 41.38 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:08 | 43.31 | 41.71 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:08 | 43.64 | 42.04 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:51:08 | 43.96 | 42.36 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:09 | 44.29 | 42.69 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:09 | 44.62 | 43.02 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:10 | 44.95 | 43.35 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:10 | 45.28 | 43.68 | 878 | 0.54 | 0.17 | 48.0 |
| 5/3/2015 17:51:10 | 45.60 | 44.00 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:11 | 45.93 | 44.33 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:11 | 46.26 | 44.66 | 875 | 0.54 | 0.17 | 47.9 |
| 5/3/2015 17:51:11 | 46.59 | 44.99 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 17:51:12 | 46.92 | 45.32 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 17:51:12 | 47.24 | 45.64 | 849 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 17:51:13 | 47.57 | 45.97 | 841 | 0.54 | 0.17 | 46.0 |
| 5/3/2015 17:51:13 | 47.90 | 46.30 | 829 | 0.54 | 0.17 | 45.3 |
| 5/3/2015 17:51:14 | 48.23 | 46.63 | 812 | 0.54 | 0.17 | 44.4 |
| 5/3/2015 17:51:29 | 48.56 | 46.96 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 17:51:30 | 48.88 | 47.28 | 129 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 17:51:30 | 49.21 | 47.61 | 229 | 0.54 | 0.17 | 12.5 |
| 5/3/2015 17:51:32 | 49.54 | 47.94 | 359 | 0.54 | 0.17 | 19.6 |
| 5/3/2015 17:51:33 | 49.87 | 48.27 | 253 | 0.54 | 0.17 | 13.8 |
| 5/3/2015 17:51:33 | 50.20 | 48.60 | 281 | 0.54 | 0.17 | 15.3 |
| 5/3/2015 17:51:34 | 50.53 | 48.93 | 281 | 0.54 | 0.17 | 15.3 |
| 5/3/2015 17:51:35 | 50.85 | 49.25 | 384 | 0.54 | 0.17 | 21.0 |
| 5/3/2015 17:51:36 | 51.18 | 49.58 | 382 | 0.54 | 0.17 | 20.9 |
| 5/3/2015 17:51:37 | 51.51 | 49.91 | 322 | 0.54 | 0.17 | 17.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 17:51:39 | 51.84 | 50.24 | 271 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 | 17:51:41 | 52.17 | 50.57 | 244 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 | 17:51:42 | 52.49 | 50.89 | 256 | 0.54 | 0.17 | 14.0 |
| 5/3/2015 | 17:51:45 | 52.82 | 51.22 | 108 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 | 17:52:06 | 53.15 | 51.55 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 17:52:20 | 53.48 | 51.88 | 41 | 0.54 | 0.17 | 2.2 |
| 5/3/2015 | 17:53:18 | 53.81 | 52.21 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 | 17:53:18 | 54.13 | 52.53 | 126 | 0.54 | 0.17 | 6.9 |
| 5/3/2015 | 17:53:27 | 54.46 | 52.86 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 17:53:43 | 54.79 | 53.19 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 17:53:50 | 54.91 | 53.31 | 20 | 0.54 | 0.17 | 1.1 |

## P220 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:49:12

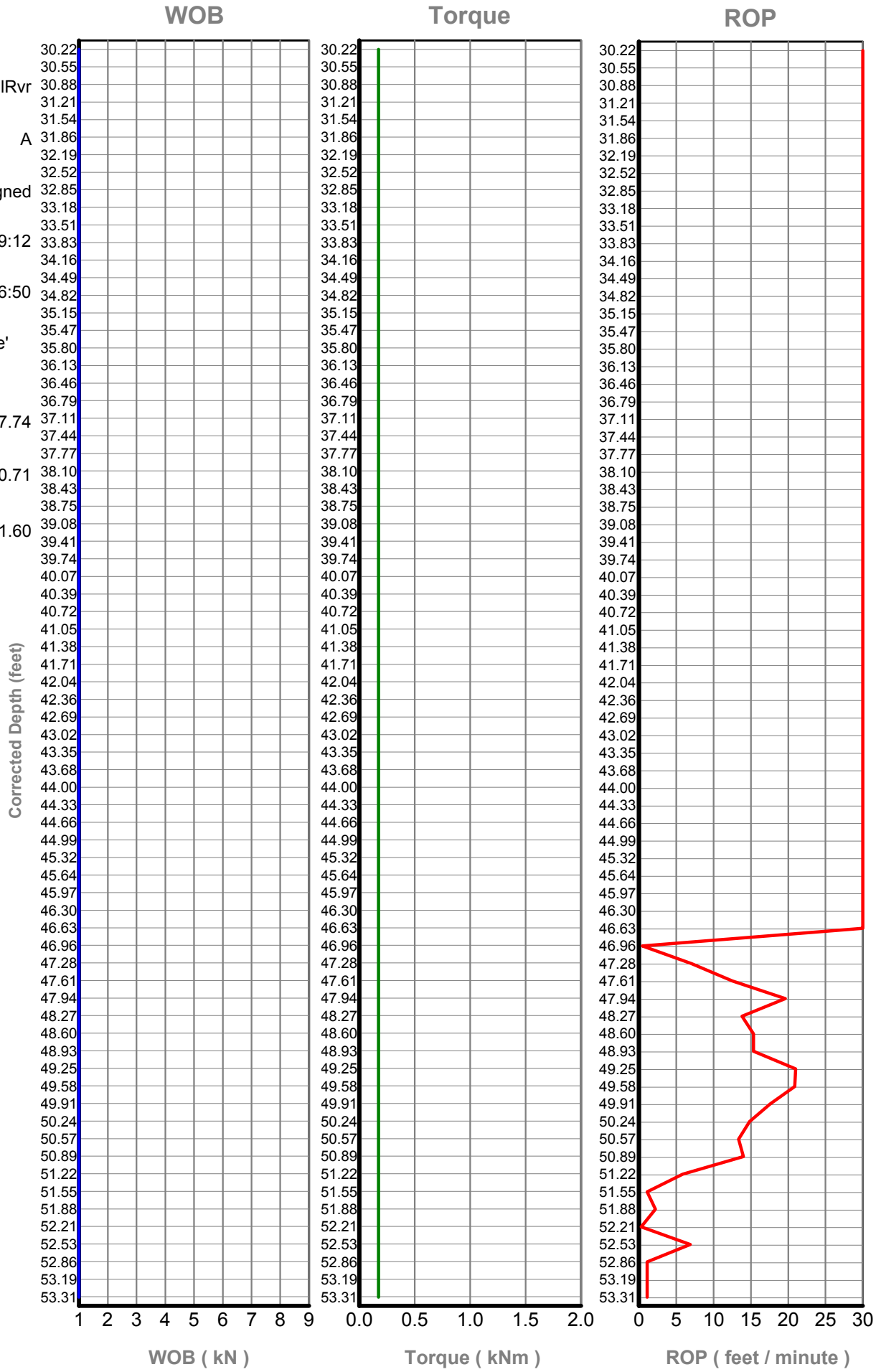
**End Date:**
5/3/2015 17:56:50

**Operator Note:**
'1.6 1.7 a Auto Complete'

**Northing:**
348,577.74

**Easting:**
224,520.71

**Tide (feet):**
1.60



## Hole: P221 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:51:35 | 31.82 | 30.22 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 17:51:36 | 32.15 | 30.55 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 17:51:36 | 32.48 | 30.88 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 17:51:37 | 32.81 | 31.21 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 17:51:37 | 33.14 | 31.54 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 17:51:37 | 33.46 | 31.86 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 17:51:37 | 33.79 | 32.19 | 1,347 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 17:51:38 | 34.12 | 32.52 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 17:51:38 | 34.45 | 32.85 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 17:51:38 | 34.78 | 33.18 | 1,356 | 0.25 | 0.39 | 74.1 |
| 5/3/2015 17:51:39 | 35.11 | 33.51 | 1,356 | 0.25 | 0.39 | 74.1 |
| 5/3/2015 17:51:39 | 35.43 | 33.83 | 1,358 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 17:51:39 | 35.76 | 34.16 | 1,358 | 0.25 | 0.38 | 74.3 |
| 5/3/2015 17:51:39 | 36.09 | 34.49 | 1,344 | 0.25 | 0.38 | 73.5 |
| 5/3/2015 17:51:40 | 36.42 | 34.82 | 1,344 | 0.25 | 0.38 | 73.5 |
| 5/3/2015 17:51:40 | 36.75 | 35.15 | 1,344 | 0.24 | 0.37 | 73.5 |
| 5/3/2015 17:51:40 | 37.07 | 35.47 | 1,344 | 0.24 | 0.37 | 73.5 |
| 5/3/2015 17:51:40 | 37.40 | 35.80 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/3/2015 17:51:41 | 37.73 | 36.13 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/3/2015 17:51:41 | 38.06 | 36.46 | 1,336 | 0.25 | 0.36 | 73.0 |
| 5/3/2015 17:51:42 | 38.39 | 36.79 | 1,336 | 0.25 | 0.36 | 73.0 |
| 5/3/2015 17:51:41 | 38.71 | 37.11 | 1,313 | 0.26 | 0.39 | 71.8 |
| 5/3/2015 17:51:42 | 39.04 | 37.44 | 1,313 | 0.26 | 0.39 | 71.8 |
| 5/3/2015 17:51:42 | 39.37 | 37.77 | 1,313 | 0.25 | 0.38 | 71.8 |
| 5/3/2015 17:51:43 | 39.70 | 38.10 | 1,313 | 0.25 | 0.38 | 71.8 |
| 5/3/2015 17:51:43 | 40.03 | 38.43 | 1,332 | 0.25 | 0.39 | 72.9 |
| 5/3/2015 17:51:43 | 40.35 | 38.75 | 1,332 | 0.25 | 0.39 | 72.9 |
| 5/3/2015 17:51:43 | 40.68 | 39.08 | 1,341 | 0.26 | 0.38 | 73.3 |
| 5/3/2015 17:51:44 | 41.01 | 39.41 | 1,341 | 0.26 | 0.38 | 73.3 |
| 5/3/2015 17:51:44 | 41.34 | 39.74 | 1,329 | 0.26 | 0.38 | 72.7 |
| 5/3/2015 17:51:44 | 41.67 | 40.07 | 1,329 | 0.26 | 0.38 | 72.7 |
| 5/3/2015 17:51:44 | 41.99 | 40.39 | 1,330 | 0.25 | 0.37 | 72.7 |
| 5/3/2015 17:51:45 | 42.32 | 40.72 | 1,330 | 0.25 | 0.37 | 72.7 |
| 5/3/2015 17:51:45 | 42.65 | 41.05 | 1,344 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 17:51:45 | 42.98 | 41.38 | 1,344 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 17:51:45 | 43.31 | 41.71 | 1,338 | 0.26 | 0.36 | 73.2 |
| 5/3/2015 17:51:46 | 43.64 | 42.04 | 1,338 | 0.26 | 0.36 | 73.2 |
| 5/3/2015 17:51:46 | 43.96 | 42.36 | 1,336 | 0.25 | 0.38 | 73.0 |
| 5/3/2015 17:51:46 | 44.29 | 42.69 | 1,336 | 0.25 | 0.38 | 73.0 |
| 5/3/2015 17:51:46 | 44.62 | 43.02 | 1,338 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 17:51:47 | 44.95 | 43.35 | 1,338 | 0.27 | 0.37 | 73.2 |
| 5/3/2015 17:51:47 | 45.28 | 43.68 | 1,344 | 0.25 | 0.36 | 73.5 |
| 5/3/2015 17:51:47 | 45.60 | 44.00 | 1,344 | 0.25 | 0.36 | 73.5 |
| 5/3/2015 17:51:47 | 45.93 | 44.33 | 1,349 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 17:51:48 | 46.26 | 44.66 | 1,349 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 17:51:48 | 46.59 | 44.99 | 1,338 | 0.26 | 0.36 | 73.2 |
| 5/3/2015 17:51:48 | 46.92 | 45.32 | 1,338 | 0.26 | 0.36 | 73.2 |
| 5/3/2015 17:51:48 | 47.24 | 45.64 | 1,327 | 0.28 | 0.30 | 72.6 |
| 5/3/2015 17:51:49 | 47.57 | 45.97 | 1,327 | 0.24 | 0.36 | 72.5 |
| 5/3/2015 17:51:49 | 47.90 | 46.30 | 1,327 | 0.24 | 0.36 | 72.5 |
| 5/3/2015 17:51:49 | 48.23 | 46.63 | 1,307 | 0.22 | 0.41 | 71.5 |
| 5/3/2015 17:51:50 | 48.56 | 46.96 | 1,307 | 0.22 | 0.41 | 71.5 |
| 5/3/2015 17:51:56 | 48.88 | 47.28 | 43 | 3.50 | 0.47 | 2.3 |
| 5/3/2015 17:52:00 | 49.21 | 47.61 | 75 | 3.22 | 0.45 | 4.1 |
| 5/3/2015 17:52:01 | 49.54 | 47.94 | 210 | 2.96 | 0.45 | 11.5 |
| 5/3/2015 17:52:09 | 49.87 | 48.27 | 0 | 2.91 | 0.44 | 0.0 |
| 5/3/2015 17:52:10 | 50.20 | 48.60 | 78 | 3.43 | 0.44 | 4.2 |
| 5/3/2015 17:52:11 | 50.53 | 48.93 | 306 | 3.81 | 0.45 | 16.7 |
| 5/3/2015 17:52:12 | 50.85 | 49.25 | 403 | 3.54 | 0.45 | 22.0 |
| 5/3/2015 17:52:12 | 51.18 | 49.58 | 449 | 2.44 | 0.44 | 24.5 |
| 5/3/2015 17:52:20 | 51.51 | 49.91 | 46 | 3.64 | 0.47 | 2.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 17:52:21 | 51.84 | 50.24 | 204 | 2.34 | 0.44 | 11.1 |
| 5/3/2015 | 17:52:22 | 52.17 | 50.57 | 335 | 1.62 | 0.41 | 18.3 |
| 5/3/2015 | 17:52:22 | 52.49 | 50.89 | 335 | 1.62 | 0.41 | 18.3 |
| 5/3/2015 | 17:52:22 | 52.82 | 51.22 | 454 | 1.68 | 0.42 | 24.8 |
| 5/3/2015 | 17:52:23 | 53.15 | 51.55 | 552 | 1.74 | 0.42 | 30.2 |
| 5/3/2015 | 17:52:24 | 53.48 | 51.88 | 691 | 2.25 | 0.44 | 37.8 |
| 5/3/2015 | 17:52:25 | 53.81 | 52.21 | 659 | 3.03 | 0.47 | 36.0 |
| 5/3/2015 | 17:52:27 | 54.13 | 52.53 | 204 | 3.12 | 0.47 | 11.2 |
| 5/3/2015 | 17:52:28 | 54.46 | 52.86 | 264 | 2.38 | 0.44 | 14.5 |
| 5/3/2015 | 17:52:28 | 54.79 | 53.19 | 347 | 2.04 | 0.45 | 19.0 |
| 5/3/2015 | 17:52:29 | 55.12 | 53.52 | 422 | 2.30 | 0.47 | 23.1 |
| 5/3/2015 | 17:52:30 | 55.45 | 53.85 | 439 | 2.14 | 0.44 | 24.0 |
| 5/3/2015 | 17:52:30 | 55.77 | 54.17 | 502 | 2.27 | 0.47 | 27.4 |
| 5/3/2015 | 17:53:01 | 56.10 | 54.50 | 35 | 2.60 | 0.47 | 1.9 |
| 5/3/2015 | 17:53:02 | 56.43 | 54.83 | 124 | 2.58 | 0.48 | 6.8 |
| 5/3/2015 | 17:53:10 | 56.76 | 55.16 | 12 | 2.20 | 0.46 | 0.6 |
| 5/3/2015 | 17:53:24 | 57.09 | 55.49 | 0 | 2.50 | 0.46 | 0.0 |
| 5/3/2015 | 17:53:27 | 57.41 | 55.81 | 51 | 1.74 | 0.45 | 2.8 |
| 5/3/2015 | 17:53:28 | 57.74 | 56.14 | 169 | 2.13 | 0.46 | 9.2 |
| 5/3/2015 | 17:53:29 | 58.07 | 56.47 | 328 | 2.07 | 0.47 | 18.0 |
| 5/3/2015 | 17:53:33 | 58.40 | 56.80 | 50 | 2.05 | 0.44 | 2.7 |
| 5/3/2015 | 17:53:39 | 58.73 | 57.13 | 24 | 4.73 | 0.46 | 1.3 |
| 5/3/2015 | 17:53:40 | 59.06 | 57.46 | 109 | 2.27 | 0.47 | 5.9 |
| 5/3/2015 | 17:53:42 | 59.38 | 57.78 | 168 | 1.70 | 0.42 | 9.2 |
| 5/3/2015 | 17:53:42 | 59.47 | 57.87 | 168 | 1.70 | 0.42 | 9.2 |

## P221 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:50:05

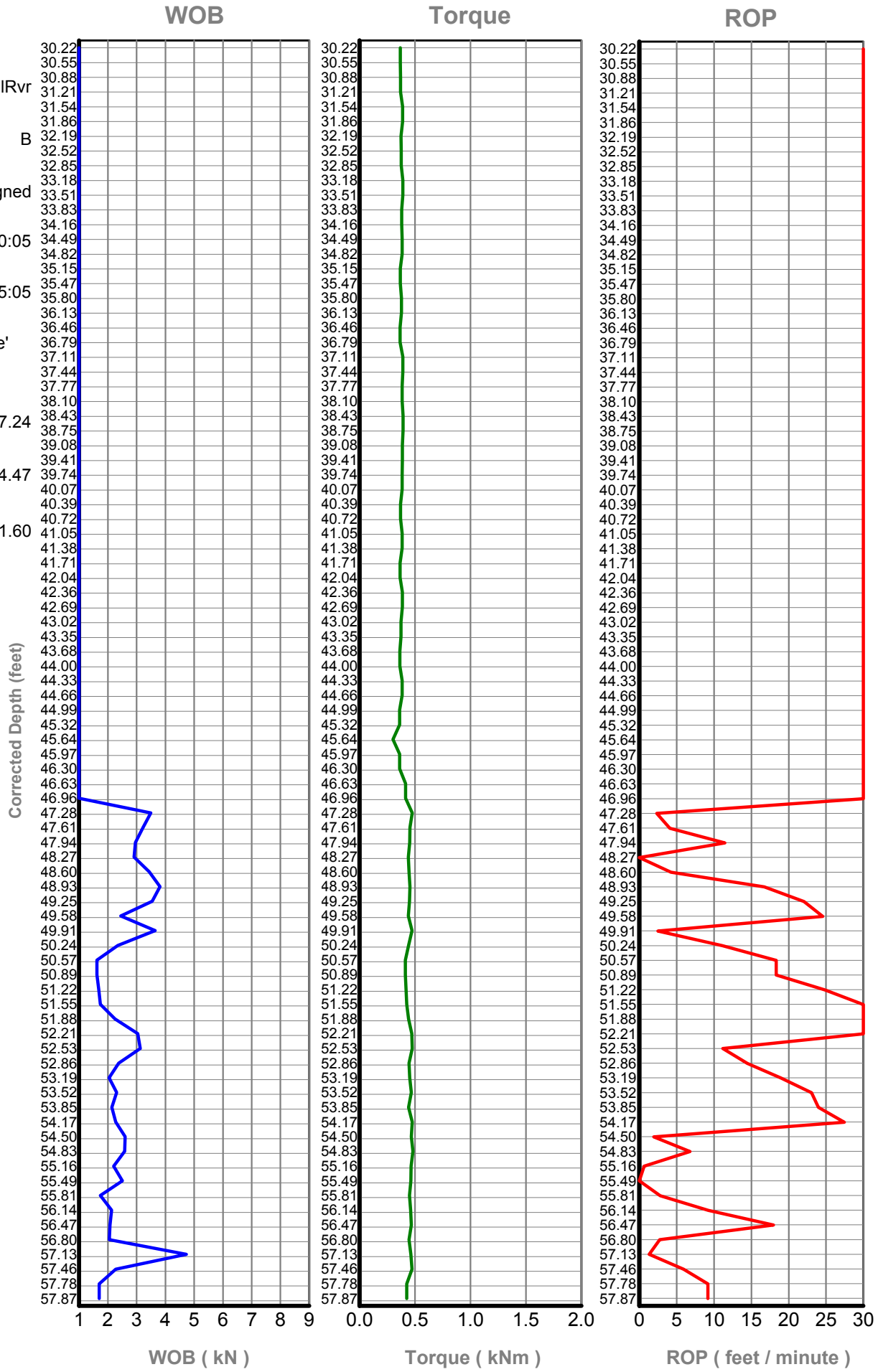
**End Date:**
5/3/2015 17:55:05

**Operator Note:**
'1.6 1.7 b Auto Complete'

**Northing:**
348,617.24

**Easting:**
224,584.47

**Tide (feet):**
1.60



## Hole: P222 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 17:51:17 | 31.82 | 30.22 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 17:51:17 | 32.15 | 30.55 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 17:51:18 | 32.48 | 30.88 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 17:51:18 | 32.81 | 31.21 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 17:51:18 | 33.14 | 31.54 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 17:51:18 | 33.46 | 31.86 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:19 | 33.79 | 32.19 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:19 | 34.12 | 32.52 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:19 | 34.45 | 32.85 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:51:20 | 34.78 | 33.18 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 17:51:20 | 35.11 | 33.51 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:51:20 | 35.43 | 33.83 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:51:20 | 35.76 | 34.16 | 1,160 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:21 | 36.09 | 34.49 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:51:21 | 36.42 | 34.82 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:51:21 | 36.75 | 35.15 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 17:51:22 | 37.07 | 35.47 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 17:51:22 | 37.40 | 35.80 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 17:51:22 | 37.73 | 36.13 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:51:23 | 38.06 | 36.46 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 17:51:23 | 38.39 | 36.79 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 17:51:24 | 38.71 | 37.11 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 17:51:23 | 39.04 | 37.44 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 17:51:24 | 39.37 | 37.77 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:51:25 | 39.70 | 38.10 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 17:51:25 | 40.03 | 38.43 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:25 | 40.35 | 38.75 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:25 | 40.68 | 39.08 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 17:51:26 | 41.01 | 39.41 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:26 | 41.34 | 39.74 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:26 | 41.67 | 40.07 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:27 | 41.99 | 40.39 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 17:51:27 | 42.32 | 40.72 | 1,144 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 17:51:27 | 42.65 | 41.05 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:51:28 | 42.98 | 41.38 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:51:28 | 43.31 | 41.71 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 17:51:28 | 43.64 | 42.04 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 17:51:28 | 43.96 | 42.36 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 17:51:29 | 44.29 | 42.69 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:29 | 44.62 | 43.02 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:29 | 44.95 | 43.35 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:30 | 45.28 | 43.68 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 17:51:30 | 45.60 | 44.00 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 17:51:30 | 45.93 | 44.33 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:31 | 46.26 | 44.66 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:31 | 46.59 | 44.99 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 17:51:31 | 46.92 | 45.32 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 17:51:31 | 47.24 | 45.64 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:32 | 47.57 | 45.97 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:32 | 47.90 | 46.30 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 17:51:51 | 48.23 | 46.63 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 17:51:52 | 48.56 | 46.96 | 167 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 17:51:52 | 48.88 | 47.28 | 302 | 1.14 | 0.29 | 16.5 |
| 5/3/2015 17:51:53 | 49.21 | 47.61 | 434 | 1.14 | 0.29 | 23.8 |
| 5/3/2015 17:51:54 | 49.54 | 47.94 | 624 | 1.14 | 0.29 | 34.1 |
| 5/3/2015 17:51:54 | 49.87 | 48.27 | 572 | 1.14 | 0.29 | 31.3 |
| 5/3/2015 17:51:55 | 50.20 | 48.60 | 493 | 1.14 | 0.29 | 27.0 |
| 5/3/2015 17:51:56 | 50.53 | 48.93 | 468 | 1.14 | 0.29 | 25.6 |
| 5/3/2015 17:51:56 | 50.85 | 49.25 | 468 | 1.14 | 0.29 | 25.6 |
| 5/3/2015 17:52:24 | 51.18 | 49.58 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 17:52:25 | 51.51 | 49.91 | 156 | 1.14 | 0.29 | 8.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 17:52:27 | 51.84 | 50.24 | 261 | 1.14 | 0.29 | 14.3 |
| 5/3/2015 | 17:52:28 | 52.17 | 50.57 | 187 | 1.14 | 0.29 | 10.2 |
| 5/3/2015 | 17:53:18 | 52.49 | 50.89 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 17:54:15 | 52.82 | 51.22 | 98 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 | 17:54:16 | 53.15 | 51.55 | 226 | 1.14 | 0.29 | 12.3 |
| 5/3/2015 | 17:54:17 | 53.48 | 51.88 | 288 | 1.14 | 0.29 | 15.8 |
| 5/3/2015 | 17:54:18 | 53.81 | 52.21 | 281 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 | 17:54:18 | 54.13 | 52.53 | 318 | 1.14 | 0.29 | 17.4 |
| 5/3/2015 | 17:54:58 | 54.46 | 52.86 | 19 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 17:54:58 | 54.79 | 53.19 | 19 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 17:54:59 | 55.12 | 53.52 | 136 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 | 17:54:59 | 55.45 | 53.85 | 248 | 1.14 | 0.29 | 13.5 |
| 5/3/2015 | 17:55:04 | 55.77 | 54.17 | 41 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 | 17:55:25 | 56.10 | 54.50 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 17:55:52 | 56.43 | 54.83 | 18 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 17:56:08 | 56.69 | 55.09 | 14 | 1.14 | 0.29 | 0.8 |

## P222 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 17:50:12

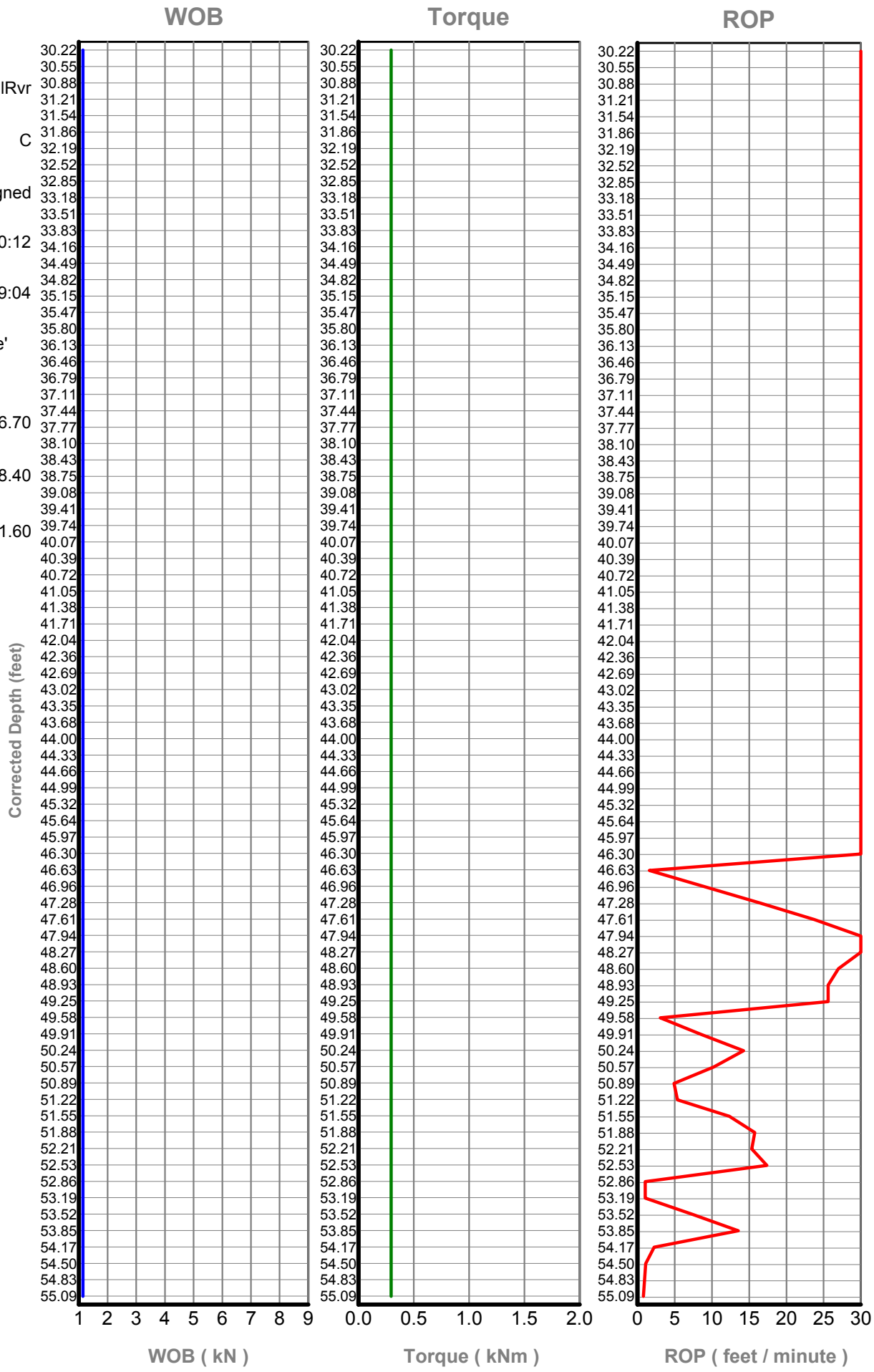
**End Date:**
5/3/2015 17:59:04

**Operator Note:**
'1.6 1.7 c Auto Complete'

**Northing:**
348,656.70

**Easting:**
224,648.40

**Tide (feet):**
1.60



## Hole: P223 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:08:53 | 36.42 | 30.32 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 13:08:54 | 36.75 | 30.65 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:55 | 37.07 | 30.97 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:55 | 37.40 | 31.30 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:55 | 37.73 | 31.63 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:08:56 | 38.06 | 31.96 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:56 | 38.39 | 32.29 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:56 | 38.71 | 32.61 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:08:57 | 39.04 | 32.94 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 13:08:57 | 39.37 | 33.27 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 13:08:57 | 39.70 | 33.60 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:08:58 | 40.03 | 33.93 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 13:08:58 | 40.35 | 34.25 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:08:59 | 40.68 | 34.58 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:08:59 | 41.01 | 34.91 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:08:59 | 41.34 | 35.24 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 13:09:00 | 41.67 | 35.57 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:09:00 | 41.99 | 35.89 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:09:00 | 42.32 | 36.22 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 13:09:01 | 42.65 | 36.55 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:09:01 | 42.98 | 36.88 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 13:09:01 | 43.31 | 37.21 | 954 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 13:09:02 | 43.64 | 37.54 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:09:02 | 43.96 | 37.86 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:03 | 44.29 | 38.19 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:03 | 44.62 | 38.52 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 13:09:03 | 44.95 | 38.85 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:04 | 45.28 | 39.18 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 13:09:04 | 45.60 | 39.50 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 13:09:04 | 45.93 | 39.83 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:05 | 46.26 | 40.16 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:09:06 | 46.59 | 40.49 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 13:09:06 | 46.92 | 40.82 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 13:09:06 | 47.24 | 41.14 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:09:07 | 47.57 | 41.47 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:07 | 47.90 | 41.80 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:07 | 48.23 | 42.13 | 943 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:08 | 48.56 | 42.46 | 943 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:08 | 48.88 | 42.78 | 938 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 13:09:09 | 49.21 | 43.11 | 938 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 13:09:09 | 49.54 | 43.44 | 944 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 13:09:09 | 49.87 | 43.77 | 941 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:10 | 50.20 | 44.10 | 941 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 13:09:10 | 50.53 | 44.43 | 947 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 13:09:10 | 50.85 | 44.75 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:09:11 | 51.18 | 45.08 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:09:11 | 51.51 | 45.41 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 13:09:11 | 51.84 | 45.74 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 13:09:12 | 52.17 | 46.07 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:12 | 52.49 | 46.39 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 13:09:19 | 52.82 | 46.72 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 13:09:21 | 53.15 | 47.05 | 92 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 13:09:22 | 53.48 | 47.38 | 264 | 0.54 | 0.17 | 14.4 |
| 5/3/2015 13:09:25 | 53.81 | 47.71 | 116 | 0.54 | 0.17 | 6.3 |
| 5/3/2015 13:09:26 | 54.13 | 48.03 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 13:09:30 | 54.46 | 48.36 | 164 | 0.54 | 0.17 | 9.0 |
| 5/3/2015 13:09:33 | 54.79 | 48.69 | 103 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 13:09:35 | 55.12 | 49.02 | 118 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 13:09:36 | 55.45 | 49.35 | 203 | 0.54 | 0.17 | 11.1 |
| 5/3/2015 13:09:38 | 55.77 | 49.67 | 274 | 0.54 | 0.17 | 15.0 |
| 5/3/2015 13:09:39 | 56.10 | 50.00 | 278 | 0.54 | 0.17 | 15.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 13:09:40 | 56.43 | 50.33 | 324 | 0.54 | 0.17 | 17.7 |
| 5/3/2015 13:09:40 | 56.76 | 50.66 | 382 | 0.54 | 0.17 | 20.9 |
| 5/3/2015 13:09:47 | 57.09 | 50.99 | 11 | 0.54 | 0.17 | 0.6 |
| 5/3/2015 13:10:02 | 57.41 | 51.31 | 32 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 13:10:13 | 57.74 | 51.64 | 34 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 13:10:23 | 58.07 | 51.97 | 34 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 13:10:32 | 58.40 | 52.30 | 35 | 0.54 | 0.17 | 1.9 |

## P223 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:07:15

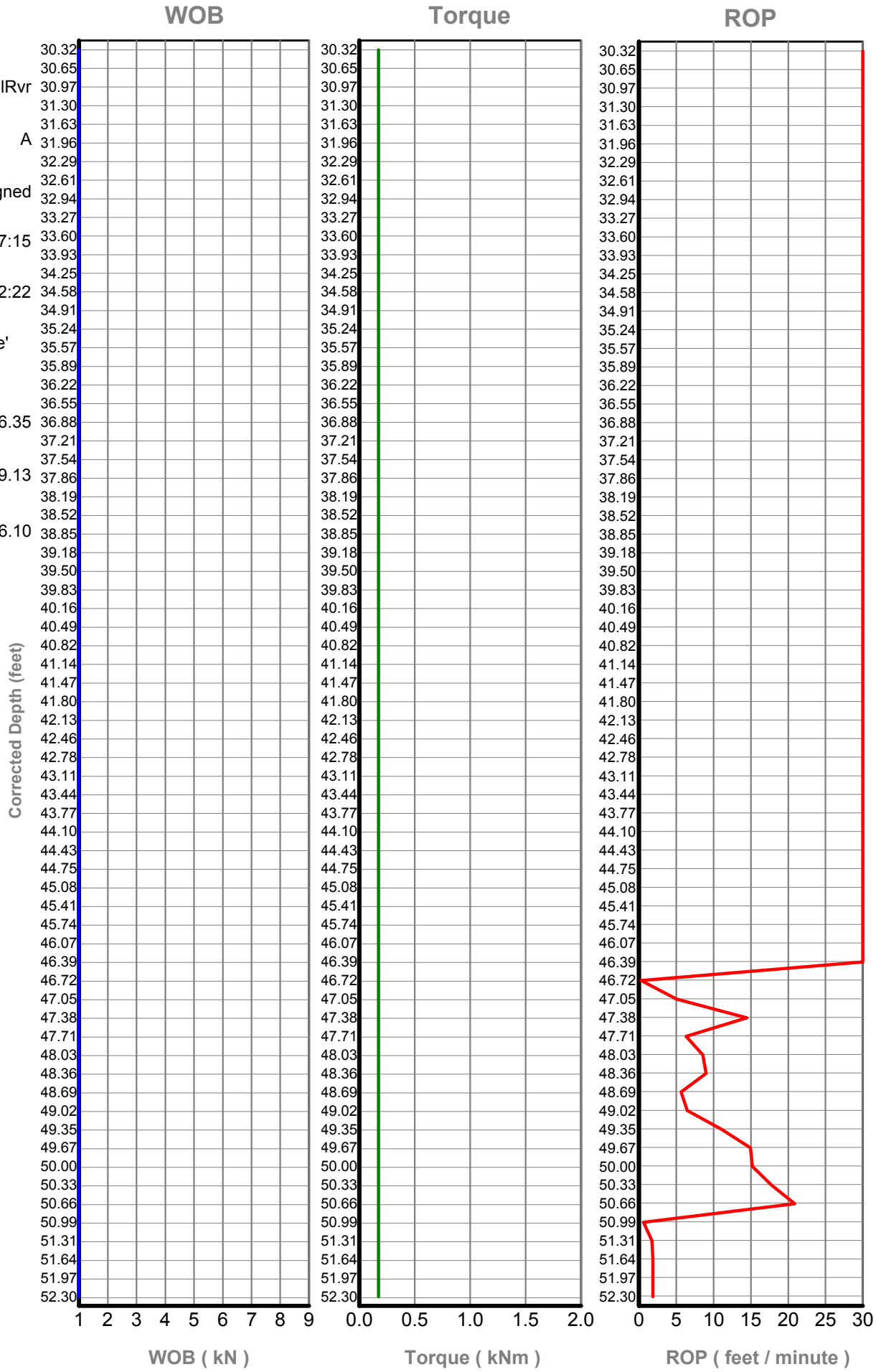
**End Date:**
5/3/2015 13:12:22

**Operator Note:**
'6.1 6.2 a Auto Complete'

**Northing:**
348,696.35

**Easting:**
224,709.13

**Tide (feet):**
6.10



## Hole: P224 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:08:24 | 36.42 | 30.32 | 1,319 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 13:08:24 | 36.75 | 30.65 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 13:08:24 | 37.07 | 30.97 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 13:08:24 | 37.40 | 31.30 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 13:08:25 | 37.73 | 31.63 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 13:08:24 | 38.06 | 31.96 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 13:08:25 | 38.39 | 32.29 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 13:08:25 | 38.71 | 32.61 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 13:08:26 | 39.04 | 32.94 | 1,336 | 0.35 | 0.39 | 73.0 |
| 5/3/2015 13:08:26 | 39.37 | 33.27 | 1,336 | 0.35 | 0.39 | 73.0 |
| 5/3/2015 13:08:26 | 39.70 | 33.60 | 1,344 | 0.27 | 0.39 | 73.5 |
| 5/3/2015 13:08:27 | 40.03 | 33.93 | 1,344 | 0.27 | 0.39 | 73.5 |
| 5/3/2015 13:08:27 | 40.35 | 34.25 | 1,331 | 0.25 | 0.38 | 72.8 |
| 5/3/2015 13:08:27 | 40.68 | 34.58 | 1,331 | 0.25 | 0.38 | 72.8 |
| 5/3/2015 13:08:27 | 41.01 | 34.91 | 1,341 | 0.26 | 0.34 | 73.3 |
| 5/3/2015 13:08:28 | 41.34 | 35.24 | 1,341 | 0.26 | 0.34 | 73.3 |
| 5/3/2015 13:08:28 | 41.67 | 35.57 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:08:28 | 41.99 | 35.89 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:08:28 | 42.32 | 36.22 | 1,343 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 13:08:29 | 42.65 | 36.55 | 1,343 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 13:08:29 | 42.98 | 36.88 | 1,336 | 0.29 | 0.37 | 73.0 |
| 5/3/2015 13:08:29 | 43.31 | 37.21 | 1,336 | 0.29 | 0.37 | 73.0 |
| 5/3/2015 13:08:29 | 43.64 | 37.54 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:08:30 | 43.96 | 37.86 | 1,341 | 0.26 | 0.39 | 73.3 |
| 5/3/2015 13:08:30 | 44.29 | 38.19 | 1,338 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 13:08:31 | 44.62 | 38.52 | 1,338 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 13:08:31 | 44.95 | 38.85 | 1,341 | 0.26 | 0.37 | 73.3 |
| 5/3/2015 13:08:31 | 45.28 | 39.18 | 1,341 | 0.26 | 0.37 | 73.3 |
| 5/3/2015 13:08:31 | 45.60 | 39.50 | 1,328 | 0.26 | 0.36 | 72.6 |
| 5/3/2015 13:08:32 | 45.93 | 39.83 | 1,328 | 0.26 | 0.36 | 72.6 |
| 5/3/2015 13:08:32 | 46.26 | 40.16 | 1,341 | 0.25 | 0.37 | 73.3 |
| 5/3/2015 13:08:32 | 46.59 | 40.49 | 1,341 | 0.25 | 0.37 | 73.3 |
| 5/3/2015 13:08:32 | 46.92 | 40.82 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:08:33 | 47.24 | 41.14 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 13:08:33 | 47.57 | 41.47 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 13:08:33 | 47.90 | 41.80 | 1,325 | 0.26 | 0.39 | 72.4 |
| 5/3/2015 13:08:33 | 48.23 | 42.13 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 13:08:34 | 48.56 | 42.46 | 1,330 | 0.26 | 0.39 | 72.7 |
| 5/3/2015 13:08:34 | 48.88 | 42.78 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 13:08:34 | 49.21 | 43.11 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 13:08:34 | 49.54 | 43.44 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 13:08:35 | 49.87 | 43.77 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 13:08:35 | 50.20 | 44.10 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 13:08:35 | 50.53 | 44.43 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 13:08:35 | 50.85 | 44.75 | 1,333 | 0.25 | 0.39 | 72.9 |
| 5/3/2015 13:08:36 | 51.18 | 45.08 | 1,336 | 0.29 | 0.39 | 73.0 |
| 5/3/2015 13:08:36 | 51.51 | 45.41 | 1,336 | 0.29 | 0.39 | 73.0 |
| 5/3/2015 13:08:36 | 51.84 | 45.74 | 1,325 | 0.25 | 0.39 | 72.5 |
| 5/3/2015 13:08:37 | 52.17 | 46.07 | 1,325 | 0.25 | 0.39 | 72.5 |
| 5/3/2015 13:08:37 | 52.49 | 46.39 | 1,331 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 13:08:37 | 52.82 | 46.72 | 1,331 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 13:08:37 | 53.15 | 47.05 | 1,328 | 0.24 | 0.44 | 72.6 |
| 5/3/2015 13:08:38 | 53.48 | 47.38 | 1,328 | 0.24 | 0.44 | 72.6 |
| 5/3/2015 13:08:47 | 53.81 | 47.71 | 132 | 2.99 | 0.48 | 7.2 |
| 5/3/2015 13:08:48 | 54.13 | 48.03 | 128 | 2.29 | 0.45 | 7.0 |
| 5/3/2015 13:08:49 | 54.46 | 48.36 | 232 | 2.68 | 0.45 | 12.7 |
| 5/3/2015 13:08:50 | 54.79 | 48.69 | 359 | 3.51 | 0.44 | 19.6 |
| 5/3/2015 13:08:56 | 55.12 | 49.02 | 52 | 2.90 | 0.45 | 2.9 |
| 5/3/2015 13:08:56 | 55.45 | 49.35 | 118 | 3.43 | 0.44 | 6.4 |
| 5/3/2015 13:08:57 | 55.77 | 49.67 | 226 | 3.73 | 0.46 | 12.4 |
| 5/3/2015 13:09:03 | 56.10 | 50.00 | 102 | 3.19 | 0.48 | 5.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 13:09:04 | 56.43 | 50.33 | 230 | 2.33 | 0.46 | 12.6 |
| 5/3/2015 | 13:09:05 | 56.76 | 50.66 | 230 | 2.61 | 0.45 | 12.6 |
| 5/3/2015 | 13:09:05 | 57.09 | 50.99 | 351 | 2.60 | 0.45 | 19.2 |
| 5/3/2015 | 13:09:06 | 57.41 | 51.31 | 390 | 2.29 | 0.44 | 21.3 |
| 5/3/2015 | 13:09:06 | 57.74 | 51.64 | 499 | 3.09 | 0.45 | 27.3 |
| 5/3/2015 | 13:09:39 | 58.07 | 51.97 | 0 | 2.65 | 0.45 | 0.0 |
| 5/3/2015 | 13:09:40 | 58.40 | 52.30 | 126 | 2.49 | 0.43 | 6.9 |
| 5/3/2015 | 13:09:40 | 58.73 | 52.63 | 263 | 2.38 | 0.47 | 14.4 |
| 5/3/2015 | 13:09:42 | 59.06 | 52.96 | 300 | 2.52 | 0.47 | 16.4 |
| 5/3/2015 | 13:09:44 | 59.38 | 53.28 | 216 | 2.14 | 0.45 | 11.8 |
| 5/3/2015 | 13:09:50 | 59.71 | 53.61 | 0 | 2.78 | 0.46 | 0.0 |
| 5/3/2015 | 13:10:05 | 60.04 | 53.94 | 23 | 5.93 | 0.49 | 1.3 |
| 5/3/2015 | 13:11:56 | 60.37 | 54.27 | 58 | 3.49 | 0.48 | 3.2 |
| 5/3/2015 | 13:12:01 | 60.70 | 54.60 | 72 | 2.78 | 0.48 | 4.0 |
| 5/3/2015 | 13:12:06 | 61.02 | 54.92 | 78 | 3.25 | 0.48 | 4.3 |
| 5/3/2015 | 13:12:07 | 61.20 | 55.10 | 107 | 2.77 | 0.47 | 5.9 |

## P224 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:06:44

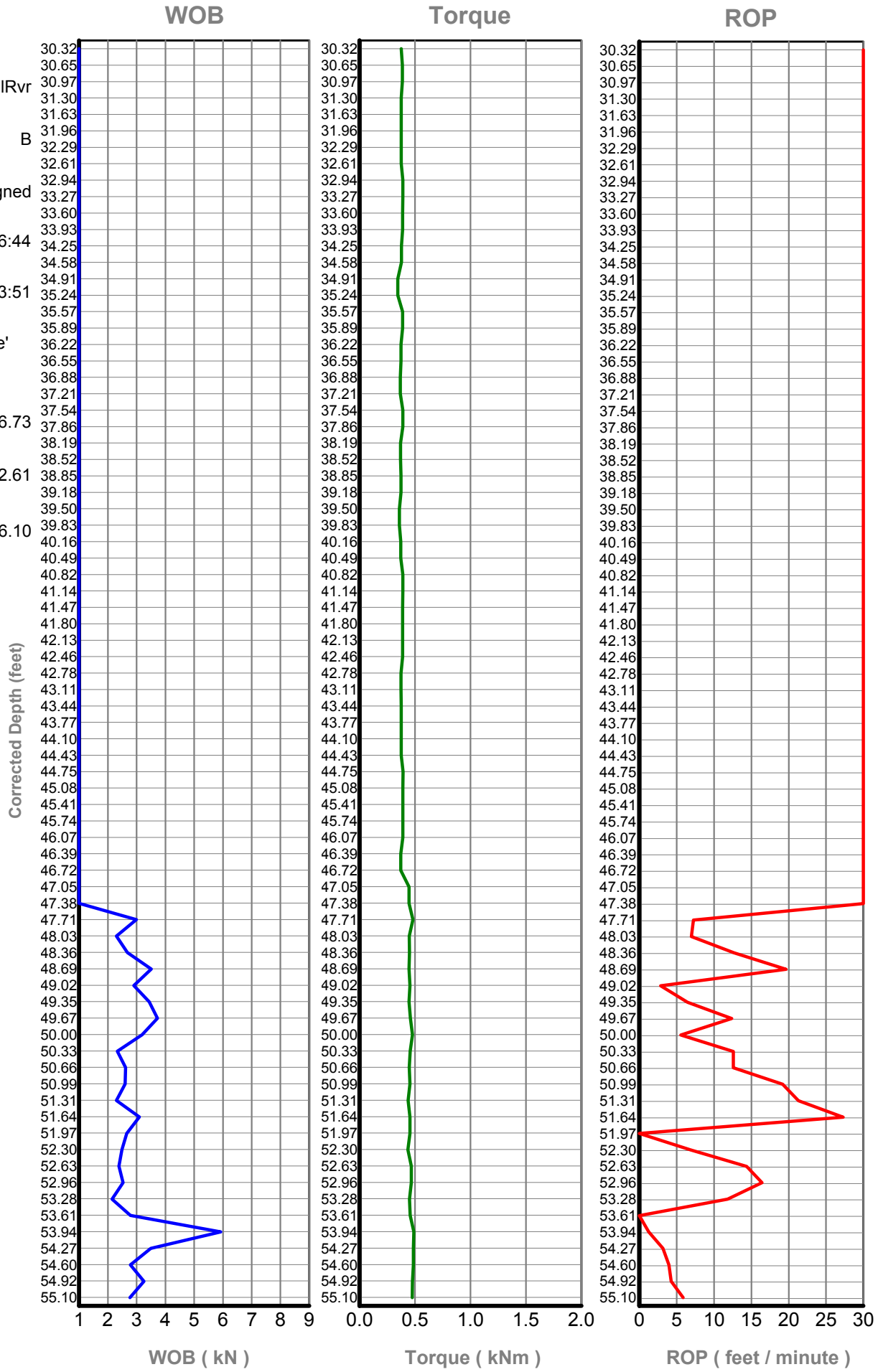
**End Date:**
5/3/2015 13:13:51

**Operator Note:**
'6.1 6.2 b Auto Complete'

**Northing:**
348,736.73

**Easting:**
224,772.61

**Tide (feet):**
6.10



## Hole: P225 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 13:08:00 | 36.42 | 30.32 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 13:08:00 | 36.75 | 30.65 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:08:01 | 37.07 | 30.97 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:08:01 | 37.40 | 31.30 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:01 | 37.73 | 31.63 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:08:02 | 38.06 | 31.96 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:08:02 | 38.39 | 32.29 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:08:02 | 38.71 | 32.61 | 1,164 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 13:08:02 | 39.04 | 32.94 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:08:03 | 39.37 | 33.27 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:08:03 | 39.70 | 33.60 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 13:08:03 | 40.03 | 33.93 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:08:04 | 40.35 | 34.25 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 13:08:04 | 40.68 | 34.58 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:08:04 | 41.01 | 34.91 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 13:08:04 | 41.34 | 35.24 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:05 | 41.67 | 35.57 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:08:05 | 41.99 | 35.89 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:08:05 | 42.32 | 36.22 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:08:06 | 42.65 | 36.55 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:08:06 | 42.98 | 36.88 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 13:08:06 | 43.31 | 37.21 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 13:08:07 | 43.64 | 37.54 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 13:08:07 | 43.96 | 37.86 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:08:07 | 44.29 | 38.19 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:08:07 | 44.62 | 38.52 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 13:08:08 | 44.95 | 38.85 | 1,144 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:08 | 45.28 | 39.18 | 1,144 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:08 | 45.60 | 39.50 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:08:09 | 45.93 | 39.83 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:08:09 | 46.26 | 40.16 | 1,153 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 13:08:10 | 46.59 | 40.49 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:10 | 46.92 | 40.82 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:10 | 47.24 | 41.14 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:11 | 47.57 | 41.47 | 1,155 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:11 | 47.90 | 41.80 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 13:08:11 | 48.23 | 42.13 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 13:08:12 | 48.56 | 42.46 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 13:08:12 | 48.88 | 42.78 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:12 | 49.21 | 43.11 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 13:08:12 | 49.54 | 43.44 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 13:08:13 | 49.87 | 43.77 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 13:08:13 | 50.20 | 44.10 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 13:08:13 | 50.53 | 44.43 | 1,142 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:14 | 50.85 | 44.75 | 1,142 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:14 | 51.18 | 45.08 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 13:08:14 | 51.51 | 45.41 | 1,142 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:15 | 51.84 | 45.74 | 1,142 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 13:08:30 | 52.17 | 46.07 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 13:08:30 | 52.49 | 46.39 | 126 | 1.14 | 0.29 | 6.9 |
| 5/3/2015 13:08:31 | 52.82 | 46.72 | 273 | 1.14 | 0.29 | 14.9 |
| 5/3/2015 13:08:31 | 53.15 | 47.05 | 427 | 1.14 | 0.29 | 23.4 |
| 5/3/2015 13:08:32 | 53.48 | 47.38 | 573 | 1.14 | 0.29 | 31.3 |
| 5/3/2015 13:08:32 | 53.81 | 47.71 | 708 | 1.14 | 0.29 | 38.7 |
| 5/3/2015 13:08:33 | 54.13 | 48.03 | 706 | 1.14 | 0.29 | 38.6 |
| 5/3/2015 13:08:34 | 54.46 | 48.36 | 697 | 1.14 | 0.29 | 38.1 |
| 5/3/2015 13:08:42 | 54.79 | 48.69 | 12 | 1.14 | 0.29 | 0.7 |
| 5/3/2015 13:08:43 | 55.12 | 49.02 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 13:08:44 | 55.45 | 49.35 | 297 | 1.14 | 0.29 | 16.2 |
| 5/3/2015 13:08:45 | 55.77 | 49.67 | 417 | 1.14 | 0.29 | 22.8 |
| 5/3/2015 13:09:22 | 56.10 | 50.00 | 39 | 1.14 | 0.29 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 13:09:23 | 56.43 | 50.33 | 171 | 1.14 | 0.29 | 9.4 |
| 5/3/2015 | 13:09:24 | 56.76 | 50.66 | 238 | 1.14 | 0.29 | 13.0 |
| 5/3/2015 | 13:09:25 | 57.09 | 50.99 | 323 | 1.14 | 0.29 | 17.7 |
| 5/3/2015 | 13:09:25 | 57.41 | 51.31 | 390 | 1.14 | 0.29 | 21.3 |
| 5/3/2015 | 13:09:26 | 57.74 | 51.64 | 455 | 1.14 | 0.29 | 24.9 |
| 5/3/2015 | 13:09:34 | 58.07 | 51.97 | 86 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 | 13:09:38 | 58.40 | 52.30 | 99 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 | 13:09:45 | 58.73 | 52.63 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 | 13:09:59 | 59.06 | 52.96 | 17 | 1.14 | 0.29 | 0.9 |
| 5/3/2015 | 13:10:11 | 59.38 | 53.28 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 | 13:10:23 | 59.58 | 53.48 | 15 | 1.14 | 0.29 | 0.8 |

## P225 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 13:06:44

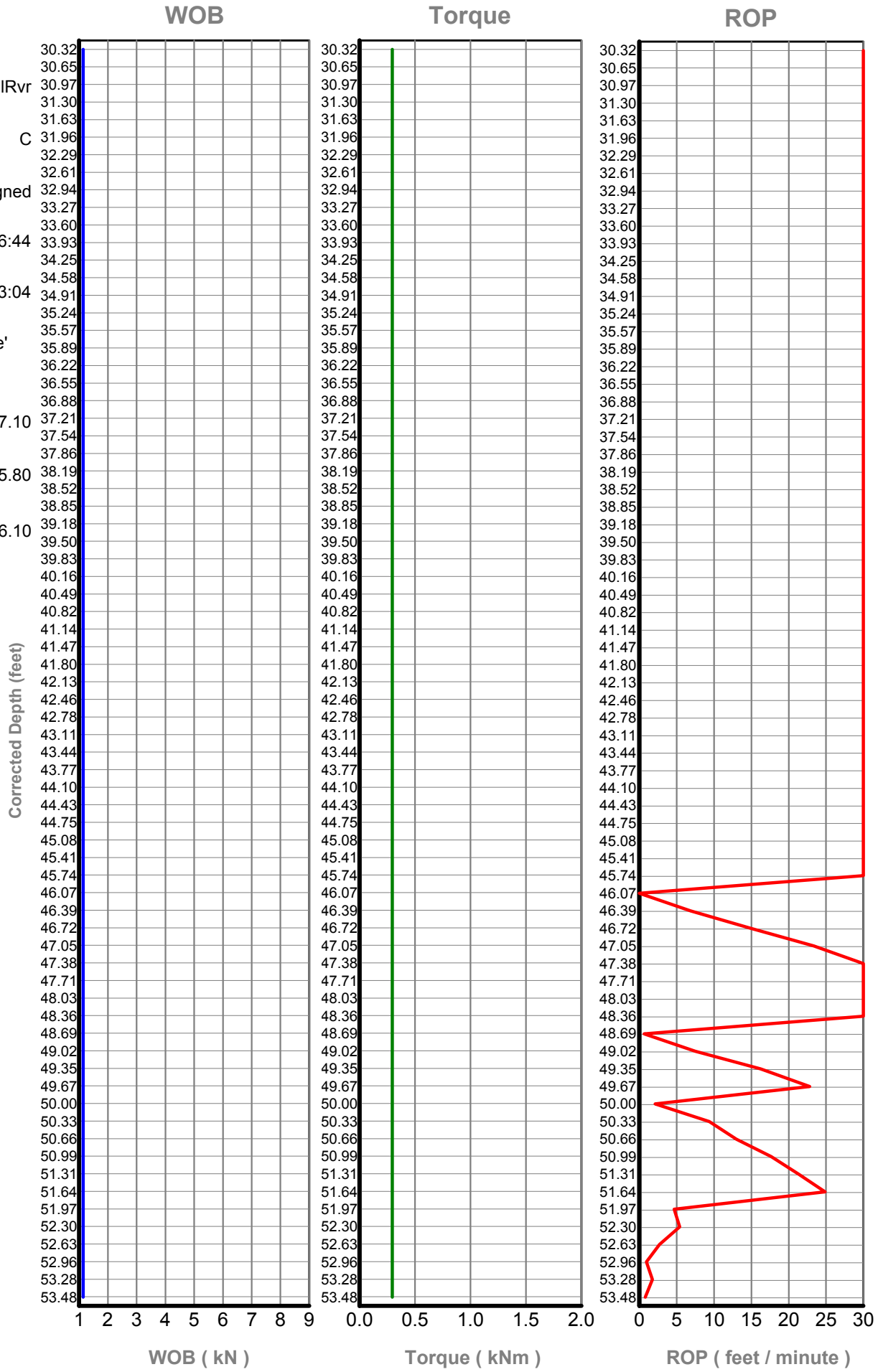
**End Date:**
5/3/2015 13:13:04

**Operator Note:**
'6.1 6.2 c Auto Complete'

**Northing:**
348,777.10

**Easting:**
224,835.80

**Tide (feet):**
6.10



## Hole: P226 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:34:21 | 35.76 | 30.16 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:22 | 36.09 | 30.49 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:22 | 36.42 | 30.82 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:23 | 36.75 | 31.15 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:23 | 37.07 | 31.47 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:23 | 37.40 | 31.80 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:24 | 37.73 | 32.13 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:24 | 38.06 | 32.46 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:24 | 38.39 | 32.79 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:25 | 38.71 | 33.11 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:34:25 | 39.04 | 33.44 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:34:25 | 39.37 | 33.77 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:26 | 39.70 | 34.10 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:34:26 | 40.03 | 34.43 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:34:26 | 40.35 | 34.75 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:27 | 40.68 | 35.08 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:27 | 41.01 | 35.41 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:28 | 41.34 | 35.74 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:28 | 41.67 | 36.07 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 11:34:28 | 41.99 | 36.39 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 11:34:29 | 42.32 | 36.72 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:29 | 42.65 | 37.05 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:29 | 42.98 | 37.38 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:30 | 43.31 | 37.71 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 11:34:30 | 43.64 | 38.04 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:31 | 43.96 | 38.36 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:31 | 44.29 | 38.69 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:34:32 | 44.62 | 39.02 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:32 | 44.95 | 39.35 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:32 | 45.28 | 39.68 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:33 | 45.60 | 40.00 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 11:34:33 | 45.93 | 40.33 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 11:34:34 | 46.26 | 40.66 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 11:34:34 | 46.59 | 40.99 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:34:34 | 46.92 | 41.32 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 11:34:35 | 47.24 | 41.64 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 11:34:35 | 47.57 | 41.97 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 11:34:35 | 47.90 | 42.30 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:34:36 | 48.23 | 42.63 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 11:34:36 | 48.56 | 42.96 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:34:37 | 48.88 | 43.28 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 11:34:37 | 49.21 | 43.61 | 917 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 11:34:37 | 49.54 | 43.94 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 11:34:38 | 49.87 | 44.27 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 11:34:38 | 50.20 | 44.60 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 11:34:38 | 50.53 | 44.93 | 928 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 11:34:39 | 50.85 | 45.25 | 912 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 11:34:39 | 51.18 | 45.58 | 912 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 11:34:40 | 51.51 | 45.91 | 912 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 11:34:58 | 51.84 | 46.24 | 24 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 11:34:59 | 52.17 | 46.57 | 24 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 11:34:59 | 52.49 | 46.89 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 11:35:00 | 52.82 | 47.22 | 368 | 0.54 | 0.17 | 20.1 |
| 5/3/2015 11:35:01 | 53.15 | 47.55 | 485 | 0.54 | 0.17 | 26.5 |
| 5/3/2015 11:35:02 | 53.48 | 47.88 | 522 | 0.54 | 0.17 | 28.6 |
| 5/3/2015 11:35:07 | 53.81 | 48.21 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 11:35:09 | 54.13 | 48.53 | 86 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 11:35:10 | 54.46 | 48.86 | 217 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 11:35:11 | 54.79 | 49.19 | 359 | 0.54 | 0.17 | 19.6 |
| 5/3/2015 11:35:12 | 55.12 | 49.52 | 443 | 0.54 | 0.17 | 24.2 |
| 5/3/2015 11:35:13 | 55.45 | 49.85 | 427 | 0.54 | 0.17 | 23.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 11:35:15 | 55.77 | 50.17 | 209 | 0.54 | 0.17 | 11.4 |
| 5/3/2015 | 11:35:19 | 56.10 | 50.50 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 11:35:20 | 56.43 | 50.83 | 222 | 0.54 | 0.17 | 12.2 |
| 5/3/2015 | 11:35:22 | 56.76 | 51.16 | 260 | 0.54 | 0.17 | 14.2 |
| 5/3/2015 | 11:35:24 | 57.09 | 51.49 | 168 | 0.54 | 0.17 | 9.2 |
| 5/3/2015 | 11:35:25 | 57.41 | 51.81 | 210 | 0.54 | 0.17 | 11.5 |
| 5/3/2015 | 11:35:27 | 57.74 | 52.14 | 220 | 0.54 | 0.17 | 12.0 |
| 5/3/2015 | 11:35:29 | 58.07 | 52.47 | 187 | 0.54 | 0.17 | 10.2 |
| 5/3/2015 | 11:35:39 | 58.40 | 52.80 | 24 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 | 11:35:56 | 58.73 | 53.13 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 11:36:13 | 59.06 | 53.46 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 | 11:36:30 | 59.38 | 53.78 | 23 | 0.54 | 0.17 | 1.3 |

## P226 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:29:27

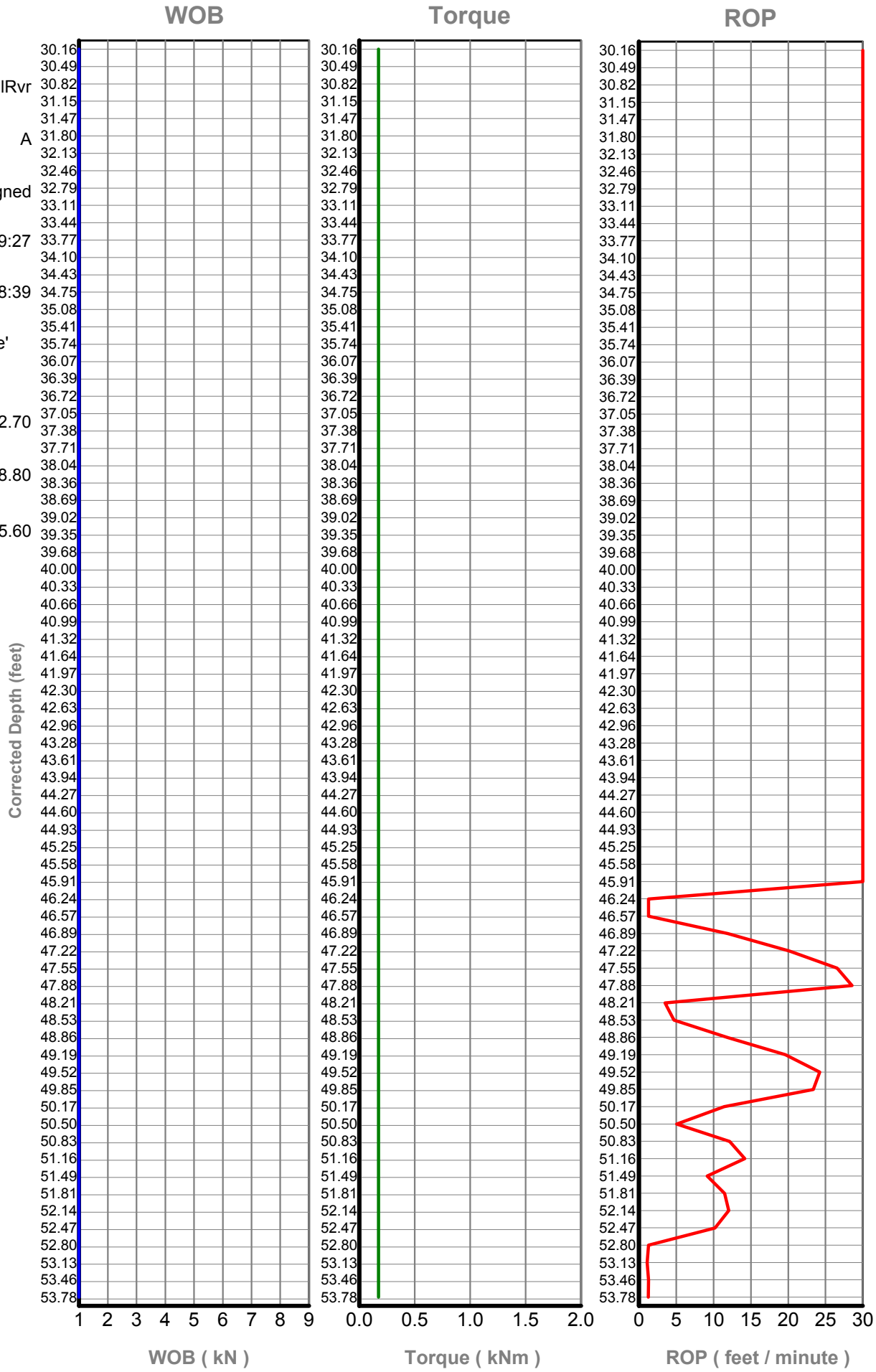
**End Date:**
5/3/2015 11:38:39

**Operator Note:**
'5.6 5.5 a Auto Complete'

**Northing:**
348,812.70

**Easting:**
224,898.80

**Tide (feet):**
5.60



## Hole: P227 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:30:57 | 35.76 | 30.16 | 1,374 | 0.25 | 0.31 | 75.1 |
| 5/3/2015 11:30:57 | 36.09 | 30.49 | 1,374 | 0.25 | 0.31 | 75.1 |
| 5/3/2015 11:30:57 | 36.42 | 30.82 | 1,374 | 0.24 | 0.40 | 75.1 |
| 5/3/2015 11:30:58 | 36.75 | 31.15 | 1,374 | 0.24 | 0.40 | 75.1 |
| 5/3/2015 11:30:57 | 37.07 | 31.47 | 1,368 | 0.27 | 0.38 | 74.8 |
| 5/3/2015 11:30:58 | 37.40 | 31.80 | 1,368 | 0.27 | 0.38 | 74.8 |
| 5/3/2015 11:30:58 | 37.73 | 32.13 | 1,365 | 0.27 | 0.36 | 74.7 |
| 5/3/2015 11:30:58 | 38.06 | 32.46 | 1,365 | 0.27 | 0.36 | 74.7 |
| 5/3/2015 11:30:58 | 38.39 | 32.79 | 1,365 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 11:30:59 | 38.71 | 33.11 | 1,365 | 0.26 | 0.37 | 74.7 |
| 5/3/2015 11:30:59 | 39.04 | 33.44 | 1,374 | 0.29 | 0.40 | 75.2 |
| 5/3/2015 11:30:59 | 39.37 | 33.77 | 1,374 | 0.29 | 0.40 | 75.2 |
| 5/3/2015 11:31:00 | 39.70 | 34.10 | 1,380 | 0.28 | 0.35 | 75.5 |
| 5/3/2015 11:31:00 | 40.03 | 34.43 | 1,380 | 0.28 | 0.35 | 75.5 |
| 5/3/2015 11:31:00 | 40.35 | 34.75 | 1,380 | 0.26 | 0.36 | 75.5 |
| 5/3/2015 11:31:00 | 40.68 | 35.08 | 1,380 | 0.26 | 0.36 | 75.5 |
| 5/3/2015 11:31:00 | 41.01 | 35.41 | 1,380 | 0.26 | 0.38 | 75.5 |
| 5/3/2015 11:31:01 | 41.34 | 35.74 | 1,380 | 0.26 | 0.38 | 75.5 |
| 5/3/2015 11:31:01 | 41.67 | 36.07 | 1,399 | 0.27 | 0.37 | 76.5 |
| 5/3/2015 11:31:01 | 41.99 | 36.39 | 1,399 | 0.27 | 0.37 | 76.5 |
| 5/3/2015 11:31:01 | 42.32 | 36.72 | 1,379 | 0.27 | 0.38 | 75.4 |
| 5/3/2015 11:31:02 | 42.65 | 37.05 | 1,379 | 0.27 | 0.38 | 75.4 |
| 5/3/2015 11:31:02 | 42.98 | 37.38 | 1,387 | 0.27 | 0.29 | 75.9 |
| 5/3/2015 11:31:02 | 43.31 | 37.71 | 1,387 | 0.27 | 0.29 | 75.9 |
| 5/3/2015 11:31:03 | 43.64 | 38.04 | 1,382 | 0.27 | 0.37 | 75.6 |
| 5/3/2015 11:31:03 | 43.96 | 38.36 | 1,382 | 0.27 | 0.37 | 75.6 |
| 5/3/2015 11:31:03 | 44.29 | 38.69 | 1,382 | 0.27 | 0.37 | 75.6 |
| 5/3/2015 11:31:03 | 44.62 | 39.02 | 1,388 | 0.26 | 0.38 | 75.9 |
| 5/3/2015 11:31:03 | 44.95 | 39.35 | 1,388 | 0.26 | 0.38 | 75.9 |
| 5/3/2015 11:31:04 | 45.28 | 39.68 | 1,371 | 0.27 | 0.36 | 75.0 |
| 5/3/2015 11:31:04 | 45.60 | 40.00 | 1,371 | 0.27 | 0.36 | 75.0 |
| 5/3/2015 11:31:04 | 45.93 | 40.33 | 1,382 | 0.27 | 0.36 | 75.6 |
| 5/3/2015 11:31:04 | 46.26 | 40.66 | 1,382 | 0.27 | 0.36 | 75.6 |
| 5/3/2015 11:31:05 | 46.59 | 40.99 | 1,374 | 0.27 | 0.39 | 75.1 |
| 5/3/2015 11:31:05 | 46.92 | 41.32 | 1,374 | 0.27 | 0.39 | 75.1 |
| 5/3/2015 11:31:05 | 47.24 | 41.64 | 1,385 | 0.27 | 0.37 | 75.8 |
| 5/3/2015 11:31:05 | 47.57 | 41.97 | 1,385 | 0.27 | 0.37 | 75.8 |
| 5/3/2015 11:31:06 | 47.90 | 42.30 | 1,380 | 0.27 | 0.37 | 75.4 |
| 5/3/2015 11:31:06 | 48.23 | 42.63 | 1,380 | 0.27 | 0.37 | 75.4 |
| 5/3/2015 11:31:06 | 48.56 | 42.96 | 1,393 | 0.26 | 0.37 | 76.2 |
| 5/3/2015 11:31:06 | 48.88 | 43.28 | 1,393 | 0.26 | 0.37 | 76.2 |
| 5/3/2015 11:31:07 | 49.21 | 43.61 | 1,379 | 0.26 | 0.37 | 75.4 |
| 5/3/2015 11:31:07 | 49.54 | 43.94 | 1,379 | 0.26 | 0.37 | 75.4 |
| 5/3/2015 11:31:07 | 49.87 | 44.27 | 1,376 | 0.22 | 0.37 | 75.2 |
| 5/3/2015 11:31:08 | 50.20 | 44.60 | 1,376 | 0.22 | 0.37 | 75.2 |
| 5/3/2015 11:31:08 | 50.53 | 44.93 | 1,373 | 0.27 | 0.37 | 75.1 |
| 5/3/2015 11:31:09 | 50.85 | 45.25 | 1,373 | 0.27 | 0.37 | 75.1 |
| 5/3/2015 11:31:08 | 51.18 | 45.58 | 1,363 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 11:31:09 | 51.51 | 45.91 | 1,363 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 11:31:09 | 51.84 | 46.24 | 1,354 | 0.25 | 0.39 | 74.0 |
| 5/3/2015 11:31:10 | 52.17 | 46.57 | 1,329 | 0.24 | 0.49 | 72.7 |
| 5/3/2015 11:31:16 | 52.49 | 46.89 | 76 | 5.85 | 0.49 | 4.1 |
| 5/3/2015 11:31:18 | 52.82 | 47.22 | 130 | 2.96 | 0.45 | 7.1 |
| 5/3/2015 11:31:19 | 53.15 | 47.55 | 295 | 4.36 | 0.47 | 16.1 |
| 5/3/2015 11:31:22 | 53.48 | 47.88 | 138 | 2.31 | 0.41 | 7.5 |
| 5/3/2015 11:31:24 | 53.81 | 48.21 | 123 | 2.93 | 0.46 | 6.7 |
| 5/3/2015 11:31:25 | 54.13 | 48.53 | 199 | 4.85 | 0.46 | 10.9 |
| 5/3/2015 11:31:26 | 54.46 | 48.86 | 315 | 4.15 | 0.47 | 17.3 |
| 5/3/2015 11:31:44 | 54.79 | 49.19 | 49 | 6.07 | 0.49 | 2.7 |
| 5/3/2015 11:31:49 | 55.12 | 49.52 | 54 | 2.71 | 0.45 | 3.0 |
| 5/3/2015 11:31:50 | 55.45 | 49.85 | 181 | 3.98 | 0.47 | 9.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:32:02 | 55.77 | 50.17 | 0 | 6.17 | 0.47 | 0.0 |
| 5/3/2015 11:32:03 | 56.10 | 50.50 | 92 | 2.97 | 0.46 | 5.0 |
| 5/3/2015 11:32:04 | 56.43 | 50.83 | 292 | 3.12 | 0.45 | 16.0 |
| 5/3/2015 11:32:04 | 56.76 | 51.16 | 395 | 3.88 | 0.45 | 21.6 |
| 5/3/2015 11:32:05 | 57.09 | 51.49 | 427 | 3.69 | 0.45 | 23.3 |
| 5/3/2015 11:32:08 | 57.41 | 51.81 | 24 | 3.96 | 0.48 | 1.3 |
| 5/3/2015 11:32:11 | 57.74 | 52.14 | 147 | 3.01 | 0.48 | 8.0 |
| 5/3/2015 11:32:12 | 58.07 | 52.47 | 202 | 2.38 | 0.42 | 11.0 |
| 5/3/2015 11:32:12 | 58.40 | 52.80 | 329 | 2.21 | 0.42 | 18.0 |
| 5/3/2015 11:32:13 | 58.73 | 53.13 | 329 | 2.21 | 0.42 | 18.0 |
| 5/3/2015 11:32:13 | 59.06 | 53.46 | 481 | 1.70 | 0.42 | 26.3 |
| 5/3/2015 11:32:13 | 59.38 | 53.78 | 620 | 1.70 | 0.42 | 33.9 |
| 5/3/2015 11:32:14 | 59.71 | 54.11 | 756 | 1.89 | 0.42 | 41.4 |
| 5/3/2015 11:32:16 | 60.04 | 54.44 | 320 | 3.59 | 0.44 | 17.5 |
| 5/3/2015 11:32:18 | 60.37 | 54.77 | 176 | 3.62 | 0.46 | 9.6 |
| 5/3/2015 11:32:18 | 60.64 | 55.04 | 236 | 3.22 | 0.46 | 12.9 |

## P227 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:29:10

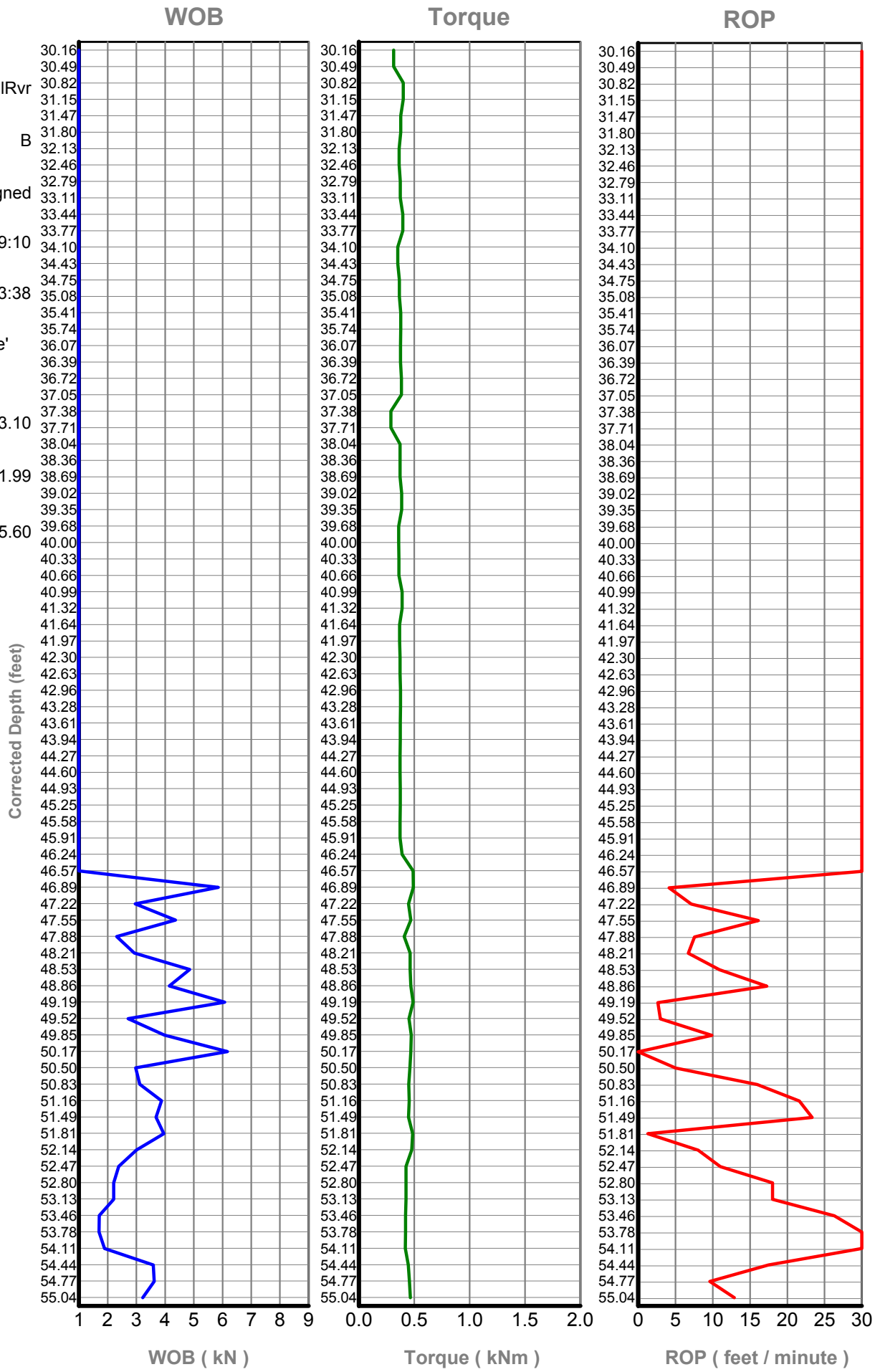
**End Date:**
5/3/2015 11:33:38

**Operator Note:**
'5.6 5.5 b Auto Complete'

**Northing:**
348,853.10

**Easting:**
224,961.99

**Tide (feet):**
5.60



## Hole: P228 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:31:04 | 35.76 | 30.16 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:31:05 | 36.09 | 30.49 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:31:06 | 36.42 | 30.82 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:31:06 | 36.75 | 31.15 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 11:31:06 | 37.07 | 31.47 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 11:31:06 | 37.40 | 31.80 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 11:31:07 | 37.73 | 32.13 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 11:31:07 | 38.06 | 32.46 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 11:31:07 | 38.39 | 32.79 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:31:08 | 38.71 | 33.11 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:31:08 | 39.04 | 33.44 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:31:08 | 39.37 | 33.77 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:31:09 | 39.70 | 34.10 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:31:09 | 40.03 | 34.43 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:31:09 | 40.35 | 34.75 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:10 | 40.68 | 35.08 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:10 | 41.01 | 35.41 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:31:10 | 41.34 | 35.74 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:31:10 | 41.67 | 36.07 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:31:11 | 41.99 | 36.39 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:31:11 | 42.32 | 36.72 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:31:11 | 42.65 | 37.05 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:31:12 | 42.98 | 37.38 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:31:12 | 43.31 | 37.71 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:31:12 | 43.64 | 38.04 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:31:13 | 43.96 | 38.36 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:31:13 | 44.29 | 38.69 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:31:13 | 44.62 | 39.02 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:31:13 | 44.95 | 39.35 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:31:14 | 45.28 | 39.68 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:31:14 | 45.60 | 40.00 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:31:14 | 45.93 | 40.33 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:31:15 | 46.26 | 40.66 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:16 | 46.59 | 40.99 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:15 | 46.92 | 41.32 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:31:16 | 47.24 | 41.64 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:31:16 | 47.57 | 41.97 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:31:17 | 47.90 | 42.30 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:31:17 | 48.23 | 42.63 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:31:17 | 48.56 | 42.96 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:18 | 48.88 | 43.28 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:18 | 49.21 | 43.61 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 11:31:18 | 49.54 | 43.94 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:19 | 49.87 | 44.27 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:31:19 | 50.20 | 44.60 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 11:31:19 | 50.53 | 44.93 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 11:31:19 | 50.85 | 45.25 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:31:20 | 51.18 | 45.58 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 11:31:20 | 51.51 | 45.91 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 11:31:37 | 51.84 | 46.24 | 11 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 11:31:38 | 52.17 | 46.57 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 11:31:39 | 52.49 | 46.89 | 250 | 1.14 | 0.29 | 13.7 |
| 5/3/2015 11:31:39 | 52.82 | 47.22 | 350 | 1.14 | 0.29 | 19.1 |
| 5/3/2015 11:31:40 | 53.15 | 47.55 | 350 | 1.14 | 0.29 | 19.1 |
| 5/3/2015 11:32:40 | 53.48 | 47.88 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 11:32:44 | 53.81 | 48.21 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 11:32:46 | 54.13 | 48.53 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 11:32:47 | 54.46 | 48.86 | 231 | 1.14 | 0.29 | 12.6 |
| 5/3/2015 11:32:48 | 54.79 | 49.19 | 277 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 11:32:48 | 55.12 | 49.52 | 358 | 1.14 | 0.29 | 19.6 |
| 5/3/2015 11:32:49 | 55.45 | 49.85 | 492 | 1.14 | 0.29 | 26.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:32:56 | 55.77 | 50.17 | 83 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 11:32:58 | 56.10 | 50.50 | 245 | 1.14 | 0.29 | 13.4 |
| 5/3/2015 11:32:59 | 56.43 | 50.83 | 285 | 1.14 | 0.29 | 15.6 |
| 5/3/2015 11:33:00 | 56.76 | 51.16 | 296 | 1.14 | 0.29 | 16.2 |
| 5/3/2015 11:33:19 | 57.09 | 51.49 | 88 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 11:33:21 | 57.41 | 51.81 | 244 | 1.14 | 0.29 | 13.3 |
| 5/3/2015 11:33:22 | 57.74 | 52.14 | 247 | 1.14 | 0.29 | 13.5 |
| 5/3/2015 11:34:05 | 58.07 | 52.47 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 11:34:16 | 58.40 | 52.80 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 11:34:29 | 58.73 | 53.13 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 11:34:42 | 59.06 | 53.46 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 11:34:43 | 59.11 | 53.51 | 26 | 1.14 | 0.29 | 1.4 |

## P228 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:29:16

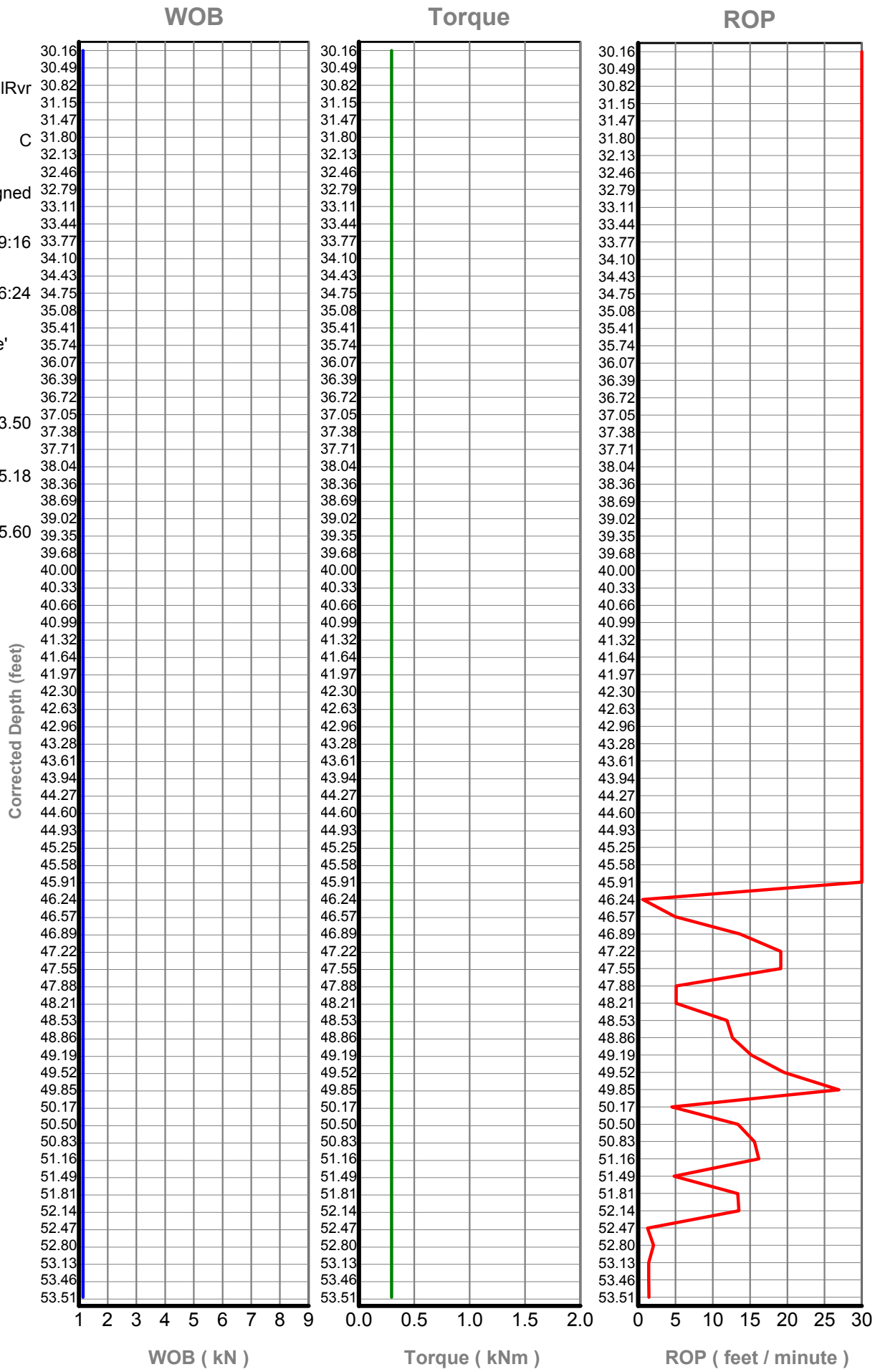
**End Date:**
5/3/2015 11:36:24

**Operator Note:**
'5.6 5.5 c Auto Complete'

**Northing:**
348,893.50

**Easting:**
225,025.18

**Tide (feet):**
5.60



## Hole: P229 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:15:43 | 37.07 | 30.07 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:43 | 37.40 | 30.40 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:43 | 37.73 | 30.73 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:43 | 38.06 | 31.06 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:43 | 38.39 | 31.39 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:44 | 38.71 | 31.71 | 1,382 | 0.54 | 0.17 | 75.6 |
| 5/3/2015 1:15:44 | 39.04 | 32.04 | 1,382 | 0.54 | 0.17 | 75.6 |
| 5/3/2015 1:15:44 | 39.37 | 32.37 | 1,402 | 0.54 | 0.17 | 76.7 |
| 5/3/2015 1:15:45 | 39.70 | 32.70 | 1,402 | 0.54 | 0.17 | 76.7 |
| 5/3/2015 1:15:45 | 40.03 | 33.03 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:45 | 40.35 | 33.35 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:45 | 40.68 | 33.68 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:46 | 41.01 | 34.01 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 1:15:46 | 41.34 | 34.34 | 1,380 | 0.54 | 0.17 | 75.5 |
| 5/3/2015 1:15:46 | 41.67 | 34.67 | 1,380 | 0.54 | 0.17 | 75.5 |
| 5/3/2015 1:15:46 | 41.99 | 34.99 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/3/2015 1:15:47 | 42.32 | 35.32 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/3/2015 1:15:47 | 42.65 | 35.65 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/3/2015 1:15:47 | 42.98 | 35.98 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/3/2015 1:15:47 | 43.31 | 36.31 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/3/2015 1:15:48 | 43.64 | 36.64 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/3/2015 1:15:48 | 43.96 | 36.96 | 1,387 | 0.54 | 0.17 | 75.8 |
| 5/3/2015 1:15:48 | 44.29 | 37.29 | 1,387 | 0.54 | 0.17 | 75.8 |
| 5/3/2015 1:15:49 | 44.62 | 37.62 | 1,387 | 0.54 | 0.17 | 75.8 |
| 5/3/2015 1:16:03 | 44.95 | 37.95 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 1:16:03 | 45.28 | 38.28 | 133 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 1:16:04 | 45.60 | 38.60 | 133 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 1:16:04 | 45.93 | 38.93 | 401 | 0.54 | 0.17 | 21.9 |
| 5/3/2015 1:16:04 | 46.26 | 39.26 | 401 | 0.54 | 0.17 | 21.9 |
| 5/3/2015 1:16:04 | 46.59 | 39.59 | 678 | 0.54 | 0.17 | 37.1 |
| 5/3/2015 1:16:04 | 46.92 | 39.92 | 678 | 0.54 | 0.17 | 37.1 |
| 5/3/2015 1:16:05 | 47.24 | 40.24 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 1:16:05 | 47.57 | 40.57 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 1:16:05 | 47.90 | 40.90 | 1,226 | 0.54 | 0.17 | 67.0 |
| 5/3/2015 1:16:06 | 48.23 | 41.23 | 1,226 | 0.54 | 0.17 | 67.0 |
| 5/3/2015 1:16:06 | 48.56 | 41.56 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 1:16:06 | 48.88 | 41.88 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 1:16:06 | 49.21 | 42.21 | 1,317 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 1:16:07 | 49.54 | 42.54 | 1,317 | 0.54 | 0.17 | 72.0 |
| 5/3/2015 1:16:07 | 49.87 | 42.87 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 1:16:08 | 50.20 | 43.20 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 1:16:07 | 50.53 | 43.53 | 1,307 | 0.54 | 0.17 | 71.5 |
| 5/3/2015 1:16:08 | 50.85 | 43.85 | 1,307 | 0.54 | 0.17 | 71.5 |
| 5/3/2015 1:16:08 | 51.18 | 44.18 | 1,312 | 0.54 | 0.17 | 71.7 |
| 5/3/2015 1:16:09 | 51.51 | 44.51 | 1,312 | 0.54 | 0.17 | 71.7 |
| 5/3/2015 1:16:09 | 51.84 | 44.84 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 1:16:09 | 52.17 | 45.17 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/3/2015 1:16:09 | 52.49 | 45.49 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 1:16:10 | 52.82 | 45.82 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 1:16:10 | 53.15 | 46.15 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 1:16:10 | 53.48 | 46.48 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 1:16:10 | 53.81 | 46.81 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 1:16:11 | 54.13 | 47.13 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 1:16:11 | 54.46 | 47.46 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 1:16:46 | 54.79 | 47.79 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 1:16:47 | 55.12 | 48.12 | 124 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 1:16:53 | 55.45 | 48.45 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 1:17:03 | 55.77 | 48.77 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 1:17:12 | 56.10 | 49.10 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 1:17:19 | 56.43 | 49.43 | 47 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 1:17:28 | 56.76 | 49.76 | 38 | 0.54 | 0.17 | 2.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:17:38 | 57.09 | 50.09 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 | 1:17:39 | 57.14 | 50.14 | 32 | 0.54 | 0.17 | 1.7 |

## P229 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 1:07:02

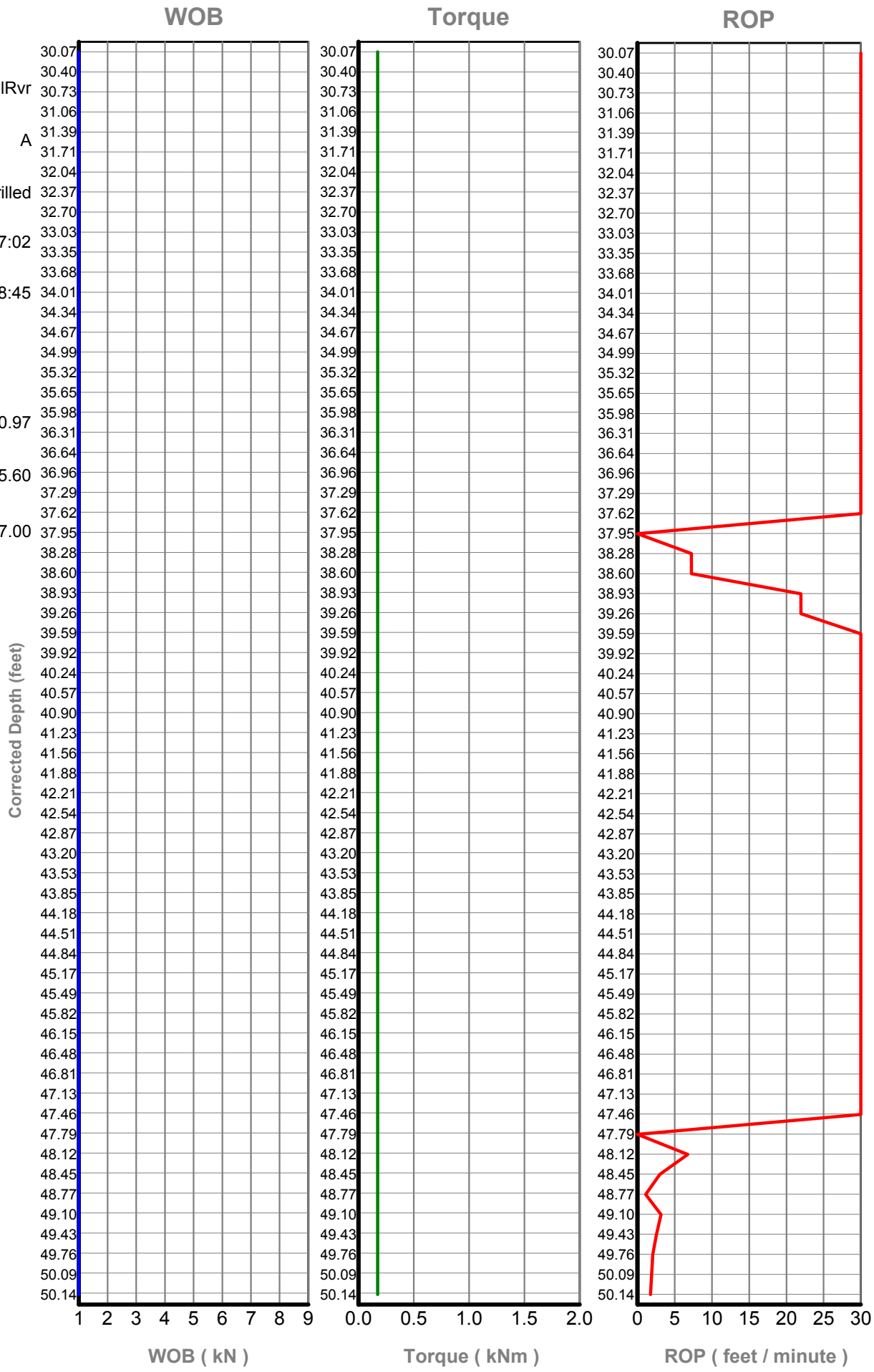
**End Date:**
5/3/2015 1:18:45

**Operator Note:**
'7 6.9 a Auto Complete'

**Northing:**
348,940.97

**Easting:**
225,085.60

**Tide (feet):**
7.00



## Hole: P23 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:18:27 | 33.46 | 30.06 | 1,226 | 0.30 | 0.39 | 67.0 |
| 5/3/2015 4:18:28 | 33.79 | 30.39 | 1,226 | 0.30 | 0.39 | 67.0 |
| 5/3/2015 4:18:28 | 34.12 | 30.72 | 1,234 | 0.30 | 0.36 | 67.5 |
| 5/3/2015 4:18:28 | 34.45 | 31.05 | 1,234 | 0.30 | 0.36 | 67.5 |
| 5/3/2015 4:18:28 | 34.78 | 31.38 | 1,239 | 0.30 | 0.40 | 67.7 |
| 5/3/2015 4:18:29 | 35.11 | 31.71 | 1,239 | 0.30 | 0.40 | 67.7 |
| 5/3/2015 4:18:29 | 35.43 | 32.03 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 4:18:29 | 35.76 | 32.36 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 4:18:29 | 36.09 | 32.69 | 1,221 | 0.30 | 0.40 | 66.8 |
| 5/3/2015 4:18:30 | 36.42 | 33.02 | 1,228 | 0.30 | 0.40 | 67.2 |
| 5/3/2015 4:18:30 | 36.75 | 33.35 | 1,228 | 0.30 | 0.40 | 67.2 |
| 5/3/2015 4:18:30 | 37.07 | 33.67 | 1,220 | 0.30 | 0.37 | 66.7 |
| 5/3/2015 4:18:31 | 37.40 | 34.00 | 1,220 | 0.30 | 0.37 | 66.7 |
| 5/3/2015 4:18:31 | 37.73 | 34.33 | 1,223 | 0.31 | 0.39 | 66.9 |
| 5/3/2015 4:18:31 | 38.06 | 34.66 | 1,223 | 0.31 | 0.39 | 66.9 |
| 5/3/2015 4:18:31 | 38.39 | 34.99 | 1,223 | 0.30 | 0.39 | 66.9 |
| 5/3/2015 4:18:32 | 38.71 | 35.31 | 1,223 | 0.30 | 0.39 | 66.9 |
| 5/3/2015 4:18:32 | 39.04 | 35.64 | 1,229 | 0.30 | 0.39 | 67.2 |
| 5/3/2015 4:18:32 | 39.37 | 35.97 | 1,218 | 0.30 | 0.39 | 66.6 |
| 5/3/2015 4:18:33 | 39.70 | 36.30 | 1,218 | 0.30 | 0.39 | 66.6 |
| 5/3/2015 4:18:33 | 40.03 | 36.63 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 4:18:33 | 40.35 | 36.95 | 1,231 | 0.30 | 0.38 | 67.3 |
| 5/3/2015 4:18:33 | 40.68 | 37.28 | 1,224 | 0.30 | 0.39 | 66.9 |
| 5/3/2015 4:18:34 | 41.01 | 37.61 | 1,224 | 0.30 | 0.39 | 66.9 |
| 5/3/2015 4:18:34 | 41.34 | 37.94 | 1,213 | 0.30 | 0.40 | 66.3 |
| 5/3/2015 4:18:34 | 41.67 | 38.27 | 1,213 | 0.30 | 0.40 | 66.3 |
| 5/3/2015 4:18:34 | 41.99 | 38.59 | 1,213 | 0.32 | 0.39 | 66.3 |
| 5/3/2015 4:18:35 | 42.32 | 38.92 | 1,224 | 0.30 | 0.38 | 67.0 |
| 5/3/2015 4:18:36 | 42.65 | 39.25 | 1,224 | 0.30 | 0.38 | 67.0 |
| 5/3/2015 4:18:36 | 42.98 | 39.58 | 1,221 | 0.30 | 0.38 | 66.8 |
| 5/3/2015 4:18:36 | 43.31 | 39.91 | 1,221 | 0.30 | 0.38 | 66.8 |
| 5/3/2015 4:18:36 | 43.64 | 40.24 | 1,214 | 0.30 | 0.39 | 66.4 |
| 5/3/2015 4:18:37 | 43.96 | 40.56 | 1,214 | 0.30 | 0.39 | 66.4 |
| 5/3/2015 4:18:37 | 44.29 | 40.89 | 1,221 | 0.30 | 0.38 | 66.8 |
| 5/3/2015 4:18:37 | 44.62 | 41.22 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/3/2015 4:18:38 | 44.95 | 41.55 | 1,232 | 0.30 | 0.39 | 67.4 |
| 5/3/2015 4:18:38 | 45.28 | 41.88 | 1,215 | 0.30 | 0.39 | 66.5 |
| 5/3/2015 4:18:38 | 45.60 | 42.20 | 1,215 | 0.30 | 0.39 | 66.5 |
| 5/3/2015 4:18:38 | 45.93 | 42.53 | 1,226 | 0.28 | 0.47 | 67.0 |
| 5/3/2015 4:19:08 | 46.26 | 42.86 | 0 | 2.07 | 0.41 | 0.0 |
| 5/3/2015 4:19:08 | 46.59 | 43.19 | 90 | 3.37 | 0.44 | 4.9 |
| 5/3/2015 4:19:10 | 46.92 | 43.52 | 287 | 5.50 | 0.52 | 15.7 |
| 5/3/2015 4:19:16 | 47.24 | 43.84 | 0 | 3.37 | 0.46 | 0.0 |
| 5/3/2015 4:19:16 | 47.57 | 44.17 | 100 | 5.31 | 0.46 | 5.5 |
| 5/3/2015 4:19:18 | 47.90 | 44.50 | 260 | 3.92 | 0.45 | 14.2 |
| 5/3/2015 4:19:18 | 48.23 | 44.83 | 360 | 2.99 | 0.44 | 19.7 |
| 5/3/2015 4:19:19 | 48.56 | 45.16 | 480 | 3.75 | 0.46 | 26.3 |
| 5/3/2015 4:19:29 | 48.88 | 45.48 | 0 | 3.51 | 0.47 | 0.0 |
| 5/3/2015 4:19:33 | 49.21 | 45.81 | 46 | 3.20 | 0.49 | 2.5 |
| 5/3/2015 4:19:37 | 49.54 | 46.14 | 94 | 3.20 | 0.49 | 5.1 |
| 5/3/2015 4:19:42 | 49.87 | 46.47 | 91 | 3.52 | 0.48 | 5.0 |
| 5/3/2015 4:19:44 | 50.20 | 46.80 | 108 | 3.91 | 0.47 | 5.9 |
| 5/3/2015 4:19:45 | 50.53 | 47.13 | 174 | 3.87 | 0.46 | 9.5 |
| 5/3/2015 4:19:47 | 50.85 | 47.45 | 221 | 5.08 | 0.48 | 12.1 |
| 5/3/2015 4:20:00 | 51.18 | 47.78 | 112 | 3.20 | 0.48 | 6.1 |
| 5/3/2015 4:20:04 | 51.51 | 48.11 | 90 | 4.06 | 0.49 | 4.9 |
| 5/3/2015 4:20:11 | 51.84 | 48.44 | 49 | 3.14 | 0.49 | 2.7 |
| 5/3/2015 4:20:16 | 52.17 | 48.77 | 66 | 4.15 | 0.48 | 3.6 |
| 5/3/2015 4:20:19 | 52.49 | 49.09 | 126 | 3.63 | 0.48 | 6.9 |
| 5/3/2015 4:20:23 | 52.82 | 49.42 | 89 | 3.91 | 0.48 | 4.9 |
| 5/3/2015 4:20:26 | 53.15 | 49.75 | 105 | 3.43 | 0.46 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:20:35 | 53.48 | 50.08 | 23 | 3.34 | 0.49 | 1.3 |
| 5/3/2015 | 4:20:39 | 53.81 | 50.41 | 75 | 3.34 | 0.49 | 4.1 |
| 5/3/2015 | 4:20:47 | 54.13 | 50.73 | 46 | 3.02 | 0.49 | 2.5 |
| 5/3/2015 | 4:21:00 | 54.46 | 51.06 | 29 | 3.28 | 0.48 | 1.6 |
| 5/3/2015 | 4:21:13 | 54.79 | 51.39 | 26 | 3.22 | 0.48 | 1.4 |

## P23 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 4:16:56

**End Date:**
5/3/2015 4:22:43

**Operator Note:**
'3.4 3.6b Auto Complete'

**Northing:**
349,479.17

**Easting:**
224,826.69

**Tide (feet):**
3.40



## Hole: P230 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:16:26 | 37.07 | 30.17 | 1,265 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 1:16:26 | 37.40 | 30.50 | 1,265 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 1:16:26 | 37.73 | 30.83 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 1:16:27 | 38.06 | 31.16 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 1:16:27 | 38.39 | 31.49 | 1,249 | 0.31 | 0.37 | 68.3 |
| 5/3/2015 1:16:27 | 38.71 | 31.81 | 1,249 | 0.31 | 0.37 | 68.3 |
| 5/3/2015 1:16:27 | 39.04 | 32.14 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 1:16:28 | 39.37 | 32.47 | 1,255 | 0.31 | 0.40 | 68.6 |
| 5/3/2015 1:16:28 | 39.70 | 32.80 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 1:16:28 | 40.03 | 33.13 | 1,265 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 1:16:29 | 40.35 | 33.45 | 1,265 | 0.31 | 0.38 | 69.2 |
| 5/3/2015 1:16:29 | 40.68 | 33.78 | 1,260 | 0.31 | 0.37 | 68.9 |
| 5/3/2015 1:16:29 | 41.01 | 34.11 | 1,260 | 0.31 | 0.37 | 68.9 |
| 5/3/2015 1:16:29 | 41.34 | 34.44 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 1:16:30 | 41.67 | 34.77 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/3/2015 1:16:30 | 41.99 | 35.09 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 1:16:30 | 42.32 | 35.42 | 1,263 | 0.31 | 0.39 | 69.1 |
| 5/3/2015 1:16:30 | 42.65 | 35.75 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:31 | 42.98 | 36.08 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:31 | 43.31 | 36.41 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/3/2015 1:16:31 | 43.64 | 36.74 | 1,235 | 0.33 | 0.39 | 67.5 |
| 5/3/2015 1:16:32 | 43.96 | 37.06 | 1,235 | 0.33 | 0.39 | 67.5 |
| 5/3/2015 1:16:32 | 44.29 | 37.39 | 1,235 | 0.31 | 0.37 | 67.5 |
| 5/3/2015 1:16:33 | 44.62 | 37.72 | 1,235 | 0.31 | 0.37 | 67.5 |
| 5/3/2015 1:16:33 | 44.95 | 38.05 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 1:16:33 | 45.28 | 38.38 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 1:16:33 | 45.60 | 38.70 | 1,233 | 0.56 | 0.40 | 67.4 |
| 5/3/2015 1:16:34 | 45.93 | 39.03 | 1,233 | 0.56 | 0.40 | 67.4 |
| 5/3/2015 1:16:34 | 46.26 | 39.36 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 1:16:34 | 46.59 | 39.69 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 1:16:34 | 46.92 | 40.02 | 1,233 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:16:35 | 47.24 | 40.34 | 1,233 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:16:35 | 47.57 | 40.67 | 1,233 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:16:35 | 47.90 | 41.00 | 1,230 | 0.30 | 0.39 | 67.3 |
| 5/3/2015 1:16:36 | 48.23 | 41.33 | 1,230 | 0.30 | 0.39 | 67.3 |
| 5/3/2015 1:16:36 | 48.56 | 41.66 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 1:16:36 | 48.88 | 41.98 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 1:16:36 | 49.21 | 42.31 | 1,263 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 1:16:37 | 49.54 | 42.64 | 1,263 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 1:16:37 | 49.87 | 42.97 | 1,263 | 0.30 | 0.39 | 69.0 |
| 5/3/2015 1:16:37 | 50.20 | 43.30 | 1,263 | 0.31 | 0.38 | 69.0 |
| 5/3/2015 1:16:38 | 50.53 | 43.63 | 1,263 | 0.31 | 0.38 | 69.0 |
| 5/3/2015 1:16:38 | 50.85 | 43.95 | 1,246 | 0.31 | 0.38 | 68.2 |
| 5/3/2015 1:16:38 | 51.18 | 44.28 | 1,246 | 0.31 | 0.38 | 68.2 |
| 5/3/2015 1:16:38 | 51.51 | 44.61 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:39 | 51.84 | 44.94 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:39 | 52.17 | 45.27 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:39 | 52.49 | 45.59 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 1:16:39 | 52.82 | 45.92 | 1,256 | 0.31 | 0.38 | 68.7 |
| 5/3/2015 1:16:40 | 53.15 | 46.25 | 1,219 | 0.30 | 0.39 | 66.7 |
| 5/3/2015 1:16:40 | 53.48 | 46.58 | 1,219 | 0.30 | 0.39 | 66.7 |
| 5/3/2015 1:16:40 | 53.81 | 46.91 | 1,219 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 1:16:41 | 54.13 | 47.23 | 1,219 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 1:16:41 | 54.46 | 47.56 | 1,242 | 0.32 | 0.40 | 67.9 |
| 5/3/2015 1:16:42 | 54.79 | 47.89 | 1,242 | 0.32 | 0.40 | 67.9 |
| 5/3/2015 1:16:46 | 55.12 | 48.22 | 38 | 4.40 | 0.48 | 2.1 |
| 5/3/2015 1:16:48 | 55.45 | 48.55 | 134 | 3.48 | 0.47 | 7.3 |
| 5/3/2015 1:17:00 | 55.77 | 48.87 | 13 | 3.69 | 0.48 | 0.7 |
| 5/3/2015 1:17:05 | 56.10 | 49.20 | 76 | 3.49 | 0.49 | 4.2 |
| 5/3/2015 1:17:09 | 56.43 | 49.53 | 72 | 3.73 | 0.49 | 3.9 |
| 5/3/2015 1:17:14 | 56.76 | 49.86 | 84 | 3.41 | 0.49 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:17:18 | 57.09 | 50.19 | 83 | 3.56 | 0.48 | 4.6 |
| 5/3/2015 | 1:17:25 | 57.41 | 50.51 | 41 | 2.84 | 0.49 | 2.2 |
| 5/3/2015 | 1:17:34 | 57.74 | 50.84 | 41 | 2.88 | 0.49 | 2.2 |
| 5/3/2015 | 1:17:43 | 58.07 | 51.17 | 41 | 2.69 | 0.49 | 2.2 |
| 5/3/2015 | 1:17:46 | 58.19 | 51.29 | 43 | 3.47 | 0.50 | 2.4 |

## P230 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:14:53

**End Date:**
5/3/2015 1:19:29

**Operator Note:**
'6.9 6.9b Auto Complete'

**Northing:**
348,977.20

**Easting:**
225,151.30

**Tide (feet):**
6.90



## Hole: P231 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:14:55 | 37.07 | 30.17 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 1:14:55 | 37.40 | 30.50 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 1:14:56 | 37.73 | 30.83 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 1:14:56 | 38.06 | 31.16 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 1:14:56 | 38.39 | 31.49 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 1:14:57 | 38.71 | 31.81 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 1:14:57 | 39.04 | 32.14 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 1:14:57 | 39.37 | 32.47 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 1:14:58 | 39.70 | 32.80 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 1:14:58 | 40.03 | 33.13 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 1:14:59 | 40.35 | 33.45 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 1:14:58 | 40.68 | 33.78 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:14:59 | 41.01 | 34.11 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:00 | 41.34 | 34.44 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:14:59 | 41.67 | 34.77 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:00 | 41.99 | 35.09 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 1:15:01 | 42.32 | 35.42 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 1:15:01 | 42.65 | 35.75 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:01 | 42.98 | 36.08 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 1:15:02 | 43.31 | 36.41 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 1:15:02 | 43.64 | 36.74 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 1:15:02 | 43.96 | 37.06 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:03 | 44.29 | 37.39 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:03 | 44.62 | 37.72 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:03 | 44.95 | 38.05 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:04 | 45.28 | 38.38 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:04 | 45.60 | 38.70 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:04 | 45.93 | 39.03 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:04 | 46.26 | 39.36 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:05 | 46.59 | 39.69 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:05 | 46.92 | 40.02 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:05 | 47.24 | 40.34 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:06 | 47.57 | 40.67 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:06 | 47.90 | 41.00 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:06 | 48.23 | 41.33 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:07 | 48.56 | 41.66 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:07 | 48.88 | 41.98 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 1:15:07 | 49.21 | 42.31 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 1:15:08 | 49.54 | 42.64 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:08 | 49.87 | 42.97 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:08 | 50.20 | 43.30 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:09 | 50.53 | 43.63 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:15:09 | 50.85 | 43.95 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:15:09 | 51.18 | 44.28 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 1:15:10 | 51.51 | 44.61 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:10 | 51.84 | 44.94 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 1:15:10 | 52.17 | 45.27 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 1:15:11 | 52.49 | 45.59 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 1:15:11 | 52.82 | 45.92 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 1:15:12 | 53.15 | 46.25 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:12 | 53.48 | 46.58 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:12 | 53.81 | 46.91 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 1:15:13 | 54.13 | 47.23 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:15:13 | 54.46 | 47.56 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:15:29 | 54.79 | 47.89 | 27 | 1.14 | 0.29 | 1.5 |
| 5/3/2015 1:15:34 | 55.12 | 48.22 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 1:15:46 | 55.45 | 48.55 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 1:16:00 | 55.77 | 48.87 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 1:16:12 | 56.10 | 49.20 | 26 | 1.14 | 0.29 | 1.4 |

## P231 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:13:45

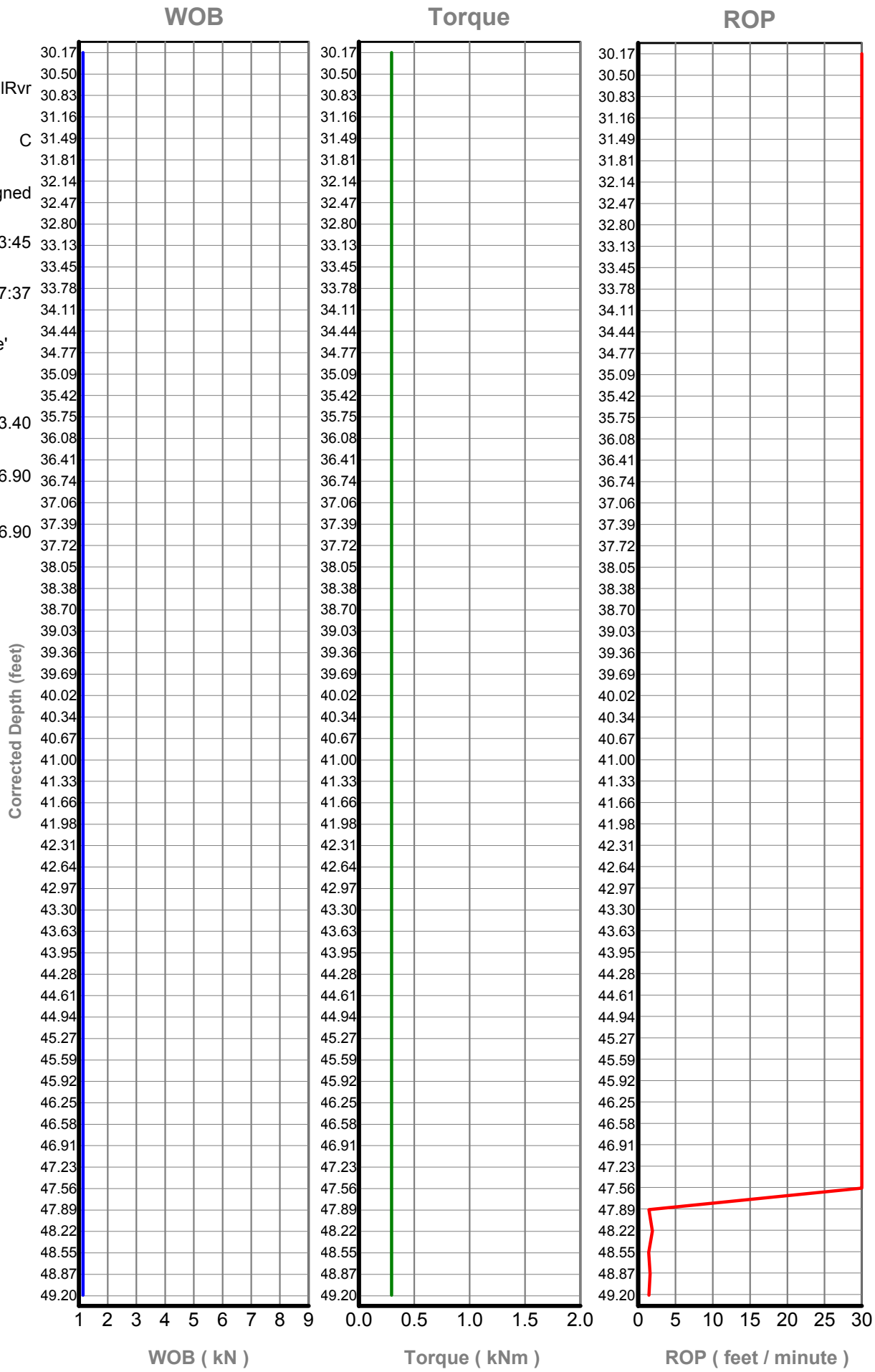
**End Date:**
5/3/2015 1:17:37

**Operator Note:**
'6.9 6.9 c Auto Complete'

**Northing:**
349,013.40

**Easting:**
225,216.90

**Tide (feet):**
6.90



## Hole: P232 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:27:01 | 37.07 | 30.17 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 23:27:01 | 37.40 | 30.50 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 23:27:01 | 37.73 | 30.83 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 23:27:01 | 38.06 | 31.16 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:02 | 38.39 | 31.49 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:02 | 38.71 | 31.81 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:02 | 39.04 | 32.14 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:02 | 39.37 | 32.47 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:03 | 39.70 | 32.80 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 23:27:03 | 40.03 | 33.13 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 23:27:03 | 40.35 | 33.45 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 23:27:04 | 40.68 | 33.78 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 23:27:04 | 41.01 | 34.11 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 23:27:04 | 41.34 | 34.44 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/2/2015 23:27:04 | 41.67 | 34.77 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/2/2015 23:27:05 | 41.99 | 35.09 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/2/2015 23:27:05 | 42.32 | 35.42 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/2/2015 23:27:05 | 42.65 | 35.75 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/2/2015 23:27:06 | 42.98 | 36.08 | 1,373 | 0.54 | 0.17 | 75.1 |
| 5/2/2015 23:27:21 | 43.31 | 36.41 | 9 | 0.54 | 0.17 | 0.5 |
| 5/2/2015 23:27:21 | 43.64 | 36.74 | 9 | 0.54 | 0.17 | 0.5 |
| 5/2/2015 23:27:21 | 43.96 | 37.06 | 279 | 0.54 | 0.17 | 15.2 |
| 5/2/2015 23:27:21 | 44.29 | 37.39 | 279 | 0.54 | 0.17 | 15.2 |
| 5/2/2015 23:27:21 | 44.62 | 37.72 | 552 | 0.54 | 0.17 | 30.2 |
| 5/2/2015 23:27:22 | 44.95 | 38.05 | 552 | 0.54 | 0.17 | 30.2 |
| 5/2/2015 23:27:22 | 45.28 | 38.38 | 838 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 23:27:22 | 45.60 | 38.70 | 838 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 23:27:23 | 45.93 | 39.03 | 1,112 | 0.54 | 0.17 | 60.8 |
| 5/2/2015 23:27:23 | 46.26 | 39.36 | 1,112 | 0.54 | 0.17 | 60.8 |
| 5/2/2015 23:27:23 | 46.59 | 39.69 | 1,389 | 0.54 | 0.17 | 76.0 |
| 5/2/2015 23:27:23 | 46.92 | 40.02 | 1,389 | 0.54 | 0.17 | 76.0 |
| 5/2/2015 23:27:24 | 47.24 | 40.34 | 1,393 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:24 | 47.57 | 40.67 | 1,393 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:24 | 47.90 | 41.00 | 1,393 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:24 | 48.23 | 41.33 | 1,393 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:25 | 48.56 | 41.66 | 1,385 | 0.54 | 0.17 | 75.7 |
| 5/2/2015 23:27:25 | 48.88 | 41.98 | 1,385 | 0.54 | 0.17 | 75.7 |
| 5/2/2015 23:27:25 | 49.21 | 42.31 | 1,402 | 0.54 | 0.17 | 76.7 |
| 5/2/2015 23:27:25 | 49.54 | 42.64 | 1,402 | 0.54 | 0.17 | 76.7 |
| 5/2/2015 23:27:26 | 49.87 | 42.97 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:26 | 50.20 | 43.30 | 1,394 | 0.54 | 0.17 | 76.2 |
| 5/2/2015 23:27:26 | 50.53 | 43.63 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/2/2015 23:27:26 | 50.85 | 43.95 | 1,399 | 0.54 | 0.17 | 76.5 |
| 5/2/2015 23:27:27 | 51.18 | 44.28 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/2/2015 23:27:27 | 51.51 | 44.61 | 1,408 | 0.54 | 0.17 | 77.0 |
| 5/2/2015 23:27:27 | 51.84 | 44.94 | 1,404 | 0.54 | 0.17 | 76.8 |
| 5/2/2015 23:27:27 | 52.17 | 45.27 | 1,404 | 0.54 | 0.17 | 76.8 |
| 5/2/2015 23:27:28 | 52.49 | 45.59 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 23:27:28 | 52.82 | 45.92 | 1,396 | 0.54 | 0.17 | 76.3 |
| 5/2/2015 23:27:28 | 53.15 | 46.25 | 1,385 | 0.54 | 0.17 | 75.7 |
| 5/2/2015 23:27:29 | 53.48 | 46.58 | 1,385 | 0.54 | 0.17 | 75.7 |
| 5/2/2015 23:27:29 | 53.81 | 46.91 | 1,377 | 0.54 | 0.17 | 75.3 |
| 5/2/2015 23:27:29 | 54.13 | 47.23 | 1,377 | 0.54 | 0.17 | 75.3 |
| 5/2/2015 23:27:29 | 54.46 | 47.56 | 1,386 | 0.54 | 0.17 | 75.8 |
| 5/2/2015 23:27:30 | 54.79 | 47.89 | 1,386 | 0.54 | 0.17 | 75.8 |
| 5/2/2015 23:27:30 | 55.12 | 48.22 | 1,391 | 0.54 | 0.17 | 76.1 |
| 5/2/2015 23:27:30 | 55.45 | 48.55 | 1,391 | 0.54 | 0.17 | 76.1 |
| 5/2/2015 23:27:31 | 55.77 | 48.87 | 1,380 | 0.54 | 0.17 | 75.5 |
| 5/2/2015 23:28:13 | 56.10 | 49.20 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:28:55 | 56.43 | 49.53 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:28:16 | 56.76 | 49.86 | 304 | 0.54 | 0.17 | 16.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:28:18 | 57.09 | 50.19 | 107 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 | 23:28:19 | 57.41 | 50.51 | 204 | 0.54 | 0.17 | 11.2 |
| 5/2/2015 | 23:28:19 | 57.74 | 50.84 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 | 23:28:20 | 58.07 | 51.17 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 | 23:28:20 | 58.40 | 51.50 | 355 | 0.54 | 0.17 | 19.4 |
| 5/2/2015 | 23:28:22 | 58.73 | 51.83 | 275 | 0.54 | 0.17 | 15.0 |
| 5/2/2015 | 23:28:23 | 59.06 | 52.16 | 200 | 0.54 | 0.17 | 10.9 |
| 5/2/2015 | 23:28:27 | 59.38 | 52.48 | 37 | 0.54 | 0.17 | 2.0 |
| 5/2/2015 | 23:28:29 | 59.71 | 52.81 | 171 | 0.54 | 0.17 | 9.3 |
| 5/2/2015 | 23:28:30 | 60.04 | 53.14 | 258 | 0.54 | 0.17 | 14.1 |
| 5/2/2015 | 23:28:31 | 60.37 | 53.47 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 | 23:28:32 | 60.70 | 53.80 | 264 | 0.54 | 0.17 | 14.5 |
| 5/2/2015 | 23:28:37 | 61.02 | 54.12 | 14 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 | 23:28:45 | 61.35 | 54.45 | 43 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 23:28:54 | 61.68 | 54.78 | 63 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 | 23:28:56 | 61.92 | 55.02 | 89 | 0.54 | 0.17 | 4.9 |

## P232 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:18:57

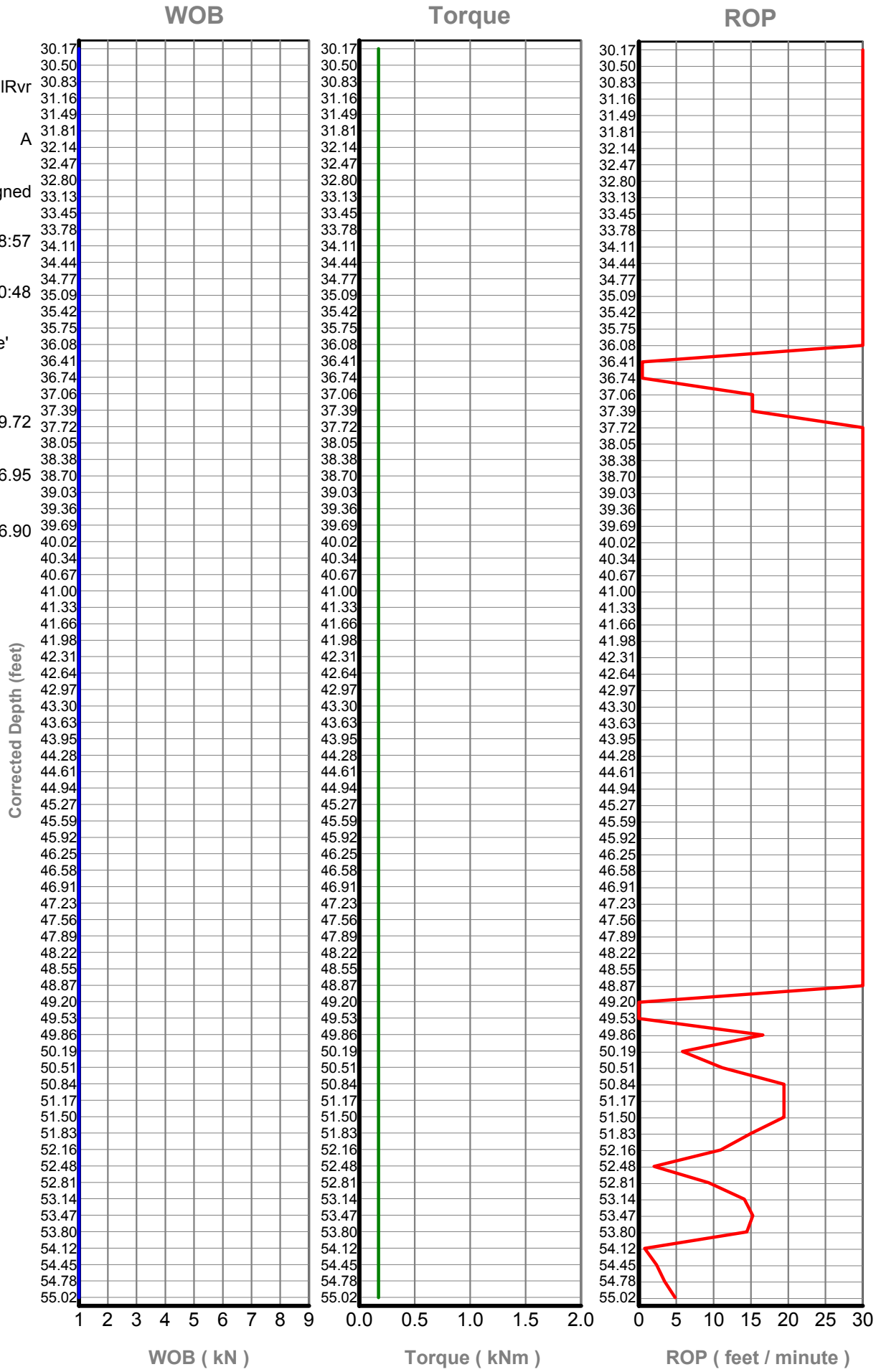
**End Date:**
5/2/2015 23:30:48

**Operator Note:**
'6.9 6.9 a Auto Complete'

**Northing:**
349,049.72

**Easting:**
225,276.95

**Tide (feet):**
6.90



## Hole: P233 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:27:51 | 37.07 | 30.17 | 1,256 | 0.31 | 0.39 | 68.7 |
| 5/2/2015 23:27:51 | 37.40 | 30.50 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:27:52 | 37.73 | 30.83 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:27:52 | 38.06 | 31.16 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/2/2015 23:27:52 | 38.39 | 31.49 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/2/2015 23:27:52 | 38.71 | 31.81 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/2/2015 23:27:53 | 39.04 | 32.14 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/2/2015 23:27:53 | 39.37 | 32.47 | 1,234 | 0.32 | 0.39 | 67.5 |
| 5/2/2015 23:27:54 | 39.70 | 32.80 | 1,245 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:27:54 | 40.03 | 33.13 | 1,245 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:27:54 | 40.35 | 33.45 | 1,237 | 0.32 | 0.38 | 67.6 |
| 5/2/2015 23:27:55 | 40.68 | 33.78 | 1,237 | 0.32 | 0.38 | 67.6 |
| 5/2/2015 23:27:55 | 41.01 | 34.11 | 1,234 | 0.32 | 0.38 | 67.5 |
| 5/2/2015 23:27:55 | 41.34 | 34.44 | 1,234 | 0.32 | 0.38 | 67.5 |
| 5/2/2015 23:27:55 | 41.67 | 34.77 | 1,268 | 0.31 | 0.38 | 69.3 |
| 5/2/2015 23:27:56 | 41.99 | 35.09 | 1,268 | 0.31 | 0.38 | 69.3 |
| 5/2/2015 23:27:56 | 42.32 | 35.42 | 1,249 | 0.32 | 0.38 | 68.3 |
| 5/2/2015 23:27:56 | 42.65 | 35.75 | 1,252 | 0.31 | 0.38 | 68.5 |
| 5/2/2015 23:27:57 | 42.98 | 36.08 | 1,252 | 0.31 | 0.38 | 68.5 |
| 5/2/2015 23:27:57 | 43.31 | 36.41 | 1,252 | 0.32 | 0.38 | 68.5 |
| 5/2/2015 23:27:57 | 43.64 | 36.74 | 1,252 | 0.32 | 0.38 | 68.5 |
| 5/2/2015 23:27:57 | 43.96 | 37.06 | 1,258 | 0.32 | 0.39 | 68.8 |
| 5/2/2015 23:27:58 | 44.29 | 37.39 | 1,258 | 0.32 | 0.39 | 68.8 |
| 5/2/2015 23:27:58 | 44.62 | 37.72 | 1,233 | 0.32 | 0.40 | 67.4 |
| 5/2/2015 23:27:58 | 44.95 | 38.05 | 1,233 | 0.32 | 0.40 | 67.4 |
| 5/2/2015 23:27:58 | 45.28 | 38.38 | 1,233 | 0.31 | 0.37 | 67.4 |
| 5/2/2015 23:27:59 | 45.60 | 38.70 | 1,233 | 0.31 | 0.37 | 67.4 |
| 5/2/2015 23:27:59 | 45.93 | 39.03 | 1,245 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:27:59 | 46.26 | 39.36 | 1,245 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:28:00 | 46.59 | 39.69 | 1,245 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:28:00 | 46.92 | 40.02 | 1,255 | 0.59 | 0.39 | 68.6 |
| 5/2/2015 23:28:00 | 47.24 | 40.34 | 1,255 | 0.59 | 0.39 | 68.6 |
| 5/2/2015 23:28:00 | 47.57 | 40.67 | 1,250 | 0.32 | 0.39 | 68.3 |
| 5/2/2015 23:28:01 | 47.90 | 41.00 | 1,250 | 0.32 | 0.39 | 68.3 |
| 5/2/2015 23:28:01 | 48.23 | 41.33 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:28:01 | 48.56 | 41.66 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:28:01 | 48.88 | 41.98 | 1,259 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:28:02 | 49.21 | 42.31 | 1,259 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:28:02 | 49.54 | 42.64 | 1,249 | 0.56 | 0.40 | 68.3 |
| 5/2/2015 23:28:02 | 49.87 | 42.97 | 1,243 | 0.31 | 0.38 | 68.0 |
| 5/2/2015 23:28:03 | 50.20 | 43.30 | 1,243 | 0.31 | 0.38 | 68.0 |
| 5/2/2015 23:28:03 | 50.53 | 43.63 | 1,236 | 0.30 | 0.39 | 67.6 |
| 5/2/2015 23:28:04 | 50.85 | 43.95 | 1,236 | 0.30 | 0.39 | 67.6 |
| 5/2/2015 23:28:04 | 51.18 | 44.28 | 1,246 | 0.31 | 0.40 | 68.2 |
| 5/2/2015 23:28:04 | 51.51 | 44.61 | 1,246 | 0.31 | 0.40 | 68.2 |
| 5/2/2015 23:28:04 | 51.84 | 44.94 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/2/2015 23:28:05 | 52.17 | 45.27 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/2/2015 23:28:05 | 52.49 | 45.59 | 1,243 | 0.31 | 0.39 | 68.0 |
| 5/2/2015 23:28:05 | 52.82 | 45.92 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/2/2015 23:28:06 | 53.15 | 46.25 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/2/2015 23:28:06 | 53.48 | 46.58 | 1,254 | 0.31 | 0.40 | 68.6 |
| 5/2/2015 23:28:06 | 53.81 | 46.91 | 1,254 | 0.31 | 0.40 | 68.6 |
| 5/2/2015 23:28:06 | 54.13 | 47.23 | 1,240 | 0.31 | 0.39 | 67.8 |
| 5/2/2015 23:28:07 | 54.46 | 47.56 | 1,240 | 0.31 | 0.39 | 67.8 |
| 5/2/2015 23:28:07 | 54.79 | 47.89 | 1,237 | 0.31 | 0.39 | 67.7 |
| 5/2/2015 23:28:07 | 55.12 | 48.22 | 1,237 | 0.31 | 0.39 | 67.7 |
| 5/2/2015 23:28:07 | 55.45 | 48.55 | 1,232 | 0.31 | 0.38 | 67.3 |
| 5/2/2015 23:28:08 | 55.77 | 48.87 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/2/2015 23:28:08 | 56.10 | 49.20 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/2/2015 23:28:08 | 56.43 | 49.53 | 1,220 | 0.31 | 0.39 | 66.7 |
| 5/2/2015 23:28:09 | 56.76 | 49.86 | 1,220 | 0.31 | 0.39 | 66.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:28:09 | 57.09 | 50.19 | 1,214 | 0.29 | 0.42 | 66.4 |
| 5/2/2015 | 23:28:09 | 57.41 | 50.51 | 1,157 | 0.28 | 0.49 | 63.3 |
| 5/2/2015 | 23:28:15 | 57.74 | 50.84 | 91 | 2.61 | 0.41 | 5.0 |
| 5/2/2015 | 23:28:16 | 58.07 | 51.17 | 91 | 2.61 | 0.41 | 5.0 |
| 5/2/2015 | 23:28:16 | 58.40 | 51.50 | 261 | 2.66 | 0.41 | 14.2 |
| 5/2/2015 | 23:28:16 | 58.73 | 51.83 | 455 | 3.43 | 0.45 | 24.9 |
| 5/2/2015 | 23:28:20 | 59.06 | 52.16 | 14 | 4.13 | 0.49 | 0.8 |
| 5/2/2015 | 23:28:22 | 59.38 | 52.48 | 80 | 4.18 | 0.44 | 4.4 |
| 5/2/2015 | 23:28:22 | 59.71 | 52.81 | 198 | 4.26 | 0.45 | 10.8 |
| 5/2/2015 | 23:28:23 | 60.04 | 53.14 | 386 | 3.53 | 0.43 | 21.1 |
| 5/2/2015 | 23:28:24 | 60.37 | 53.47 | 500 | 3.95 | 0.46 | 27.4 |
| 5/2/2015 | 23:28:26 | 60.70 | 53.80 | 326 | 3.60 | 0.44 | 17.8 |
| 5/2/2015 | 23:28:26 | 61.02 | 54.12 | 292 | 3.47 | 0.44 | 16.0 |
| 5/2/2015 | 23:28:27 | 61.35 | 54.45 | 296 | 4.71 | 0.47 | 16.2 |
| 5/2/2015 | 23:28:29 | 61.68 | 54.78 | 324 | 3.27 | 0.46 | 17.7 |
| 5/2/2015 | 23:28:29 | 61.89 | 54.99 | 324 | 3.97 | 0.47 | 17.7 |

## P233 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:26:18

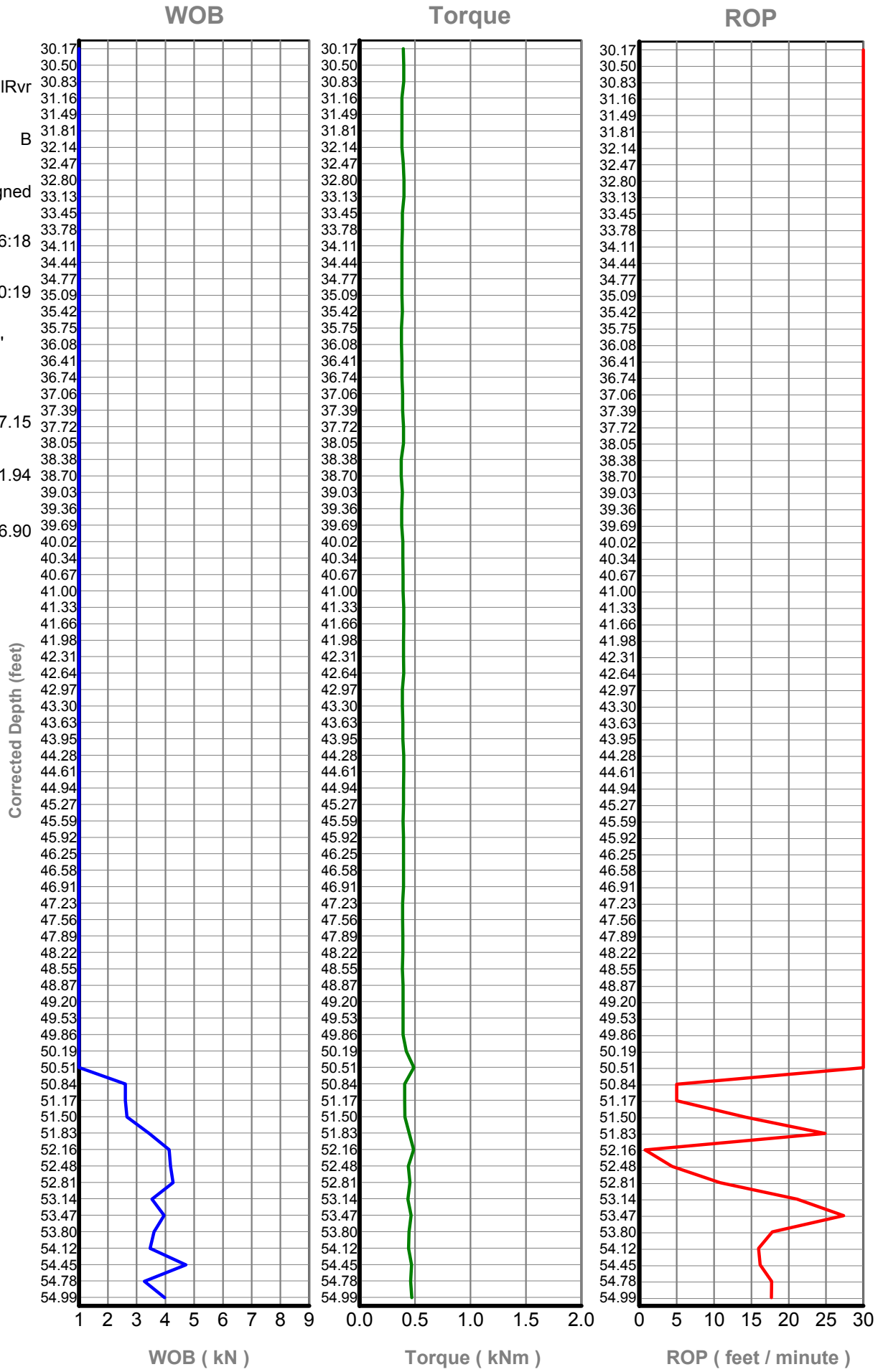
**End Date:**
5/2/2015 23:30:19

**Operator Note:**
'6.9 6.9b Auto Complete'

**Northing:**
349,087.15

**Easting:**
225,341.94

**Tide (feet):**
6.90



## Hole: P234 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:26:21 | 37.07 | 30.17 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 23:26:21 | 37.40 | 30.50 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:21 | 37.73 | 30.83 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:22 | 38.06 | 31.16 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:22 | 38.39 | 31.49 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:22 | 38.71 | 31.81 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:23 | 39.04 | 32.14 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:23 | 39.37 | 32.47 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 23:26:23 | 39.70 | 32.80 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 23:26:24 | 40.03 | 33.13 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 23:26:24 | 40.35 | 33.45 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:26:24 | 40.68 | 33.78 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:26:25 | 41.01 | 34.11 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:26:25 | 41.34 | 34.44 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 23:26:25 | 41.67 | 34.77 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:26 | 41.99 | 35.09 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:26 | 42.32 | 35.42 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:26:26 | 42.65 | 35.75 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:26:27 | 42.98 | 36.08 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:26:27 | 43.31 | 36.41 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:26:28 | 43.64 | 36.74 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:28 | 43.96 | 37.06 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:28 | 44.29 | 37.39 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:29 | 44.62 | 37.72 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:29 | 44.95 | 38.05 | 1,016 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:29 | 45.28 | 38.38 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:30 | 45.60 | 38.70 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:30 | 45.93 | 39.03 | 1,004 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:30 | 46.26 | 39.36 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:31 | 46.59 | 39.69 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:26:31 | 46.92 | 40.02 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:32 | 47.24 | 40.34 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:32 | 47.57 | 40.67 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 23:26:32 | 47.90 | 41.00 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:33 | 48.23 | 41.33 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:26:33 | 48.56 | 41.66 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:26:33 | 48.88 | 41.98 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:34 | 49.21 | 42.31 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:34 | 49.54 | 42.64 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 23:26:34 | 49.87 | 42.97 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 23:26:35 | 50.20 | 43.30 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 23:26:35 | 50.53 | 43.63 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 23:26:35 | 50.85 | 43.95 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:36 | 51.18 | 44.28 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:26:36 | 51.51 | 44.61 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:36 | 51.84 | 44.94 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 23:26:37 | 52.17 | 45.27 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 23:26:37 | 52.49 | 45.59 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:26:37 | 52.82 | 45.92 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 23:26:38 | 53.15 | 46.25 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 23:26:38 | 53.48 | 46.58 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:39 | 53.81 | 46.91 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:39 | 54.13 | 47.23 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:39 | 54.46 | 47.56 | 1,012 | 1.14 | 0.29 | 55.4 |
| 5/2/2015 23:26:40 | 54.79 | 47.89 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 23:26:40 | 55.12 | 48.22 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:41 | 55.45 | 48.55 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:26:41 | 55.77 | 48.87 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 23:26:41 | 56.10 | 49.20 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:42 | 56.43 | 49.53 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 23:26:42 | 56.76 | 49.86 | 991 | 1.14 | 0.29 | 54.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 23:26:42 | 57.09 | 50.19 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 23:26:43 | 57.41 | 50.51 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 23:26:43 | 57.74 | 50.84 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 23:26:43 | 58.07 | 51.17 | 965 | 1.14 | 0.29 | 52.8 |
| 5/2/2015 23:26:44 | 58.40 | 51.50 | 936 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 23:26:44 | 58.73 | 51.83 | 897 | 1.14 | 0.29 | 49.1 |
| 5/2/2015 23:26:45 | 59.06 | 52.16 | 864 | 1.14 | 0.29 | 47.3 |
| 5/2/2015 23:26:45 | 59.38 | 52.48 | 864 | 1.14 | 0.29 | 47.3 |
| 5/2/2015 23:26:45 | 59.71 | 52.81 | 812 | 1.14 | 0.29 | 44.4 |
| 5/2/2015 23:26:46 | 60.04 | 53.14 | 781 | 1.14 | 0.29 | 42.7 |
| 5/2/2015 23:26:46 | 60.37 | 53.47 | 781 | 1.14 | 0.29 | 42.7 |
| 5/2/2015 23:26:47 | 60.70 | 53.80 | 773 | 1.14 | 0.29 | 42.2 |
| 5/2/2015 23:26:47 | 61.02 | 54.12 | 753 | 1.14 | 0.29 | 41.2 |
| 5/2/2015 23:26:49 | 61.35 | 54.45 | 545 | 1.14 | 0.29 | 29.8 |
| 5/2/2015 23:26:49 | 61.68 | 54.78 | 490 | 1.14 | 0.29 | 26.8 |
| 5/2/2015 23:26:50 | 62.01 | 55.11 | 460 | 1.14 | 0.29 | 25.2 |
| 5/2/2015 23:26:51 | 62.13 | 55.23 | 451 | 1.14 | 0.29 | 24.7 |

## P234 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:25:17

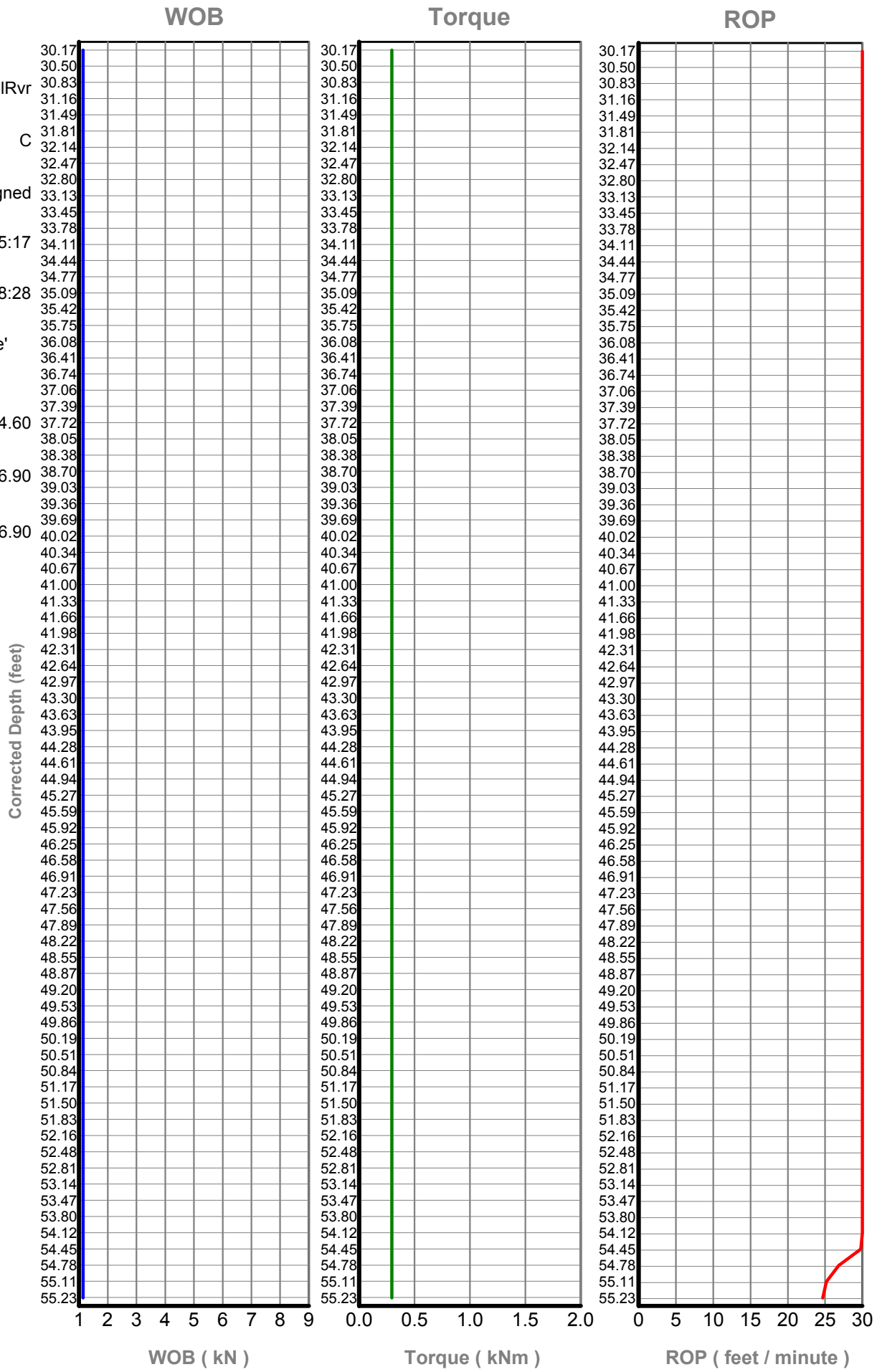
**End Date:**
5/2/2015 23:28:28

**Operator Note:**
'6.9 6.9 c Auto Complete'

**Northing:**
349,124.60

**Easting:**
225,406.90

**Tide (feet):**
6.90



## Hole: P235 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:24:32 | 31.17 | 30.17 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:32 | 31.50 | 30.50 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:32 | 31.82 | 30.82 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:33 | 32.15 | 31.15 | 919 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:33 | 32.48 | 31.48 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:34 | 32.81 | 31.81 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:34 | 33.14 | 32.14 | 919 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:34 | 33.46 | 32.46 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:35 | 33.79 | 32.79 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:24:35 | 34.12 | 33.12 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:24:35 | 34.45 | 33.45 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:36 | 34.78 | 33.78 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:36 | 35.11 | 34.11 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:37 | 35.43 | 34.43 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:37 | 35.76 | 34.76 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:38 | 36.09 | 35.09 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 18:24:38 | 36.42 | 35.42 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:39 | 36.75 | 35.75 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:39 | 37.07 | 36.07 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:39 | 37.40 | 36.40 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:40 | 37.73 | 36.73 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:40 | 38.06 | 37.06 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:40 | 38.39 | 37.39 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:41 | 38.71 | 37.71 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:41 | 39.04 | 38.04 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:42 | 39.37 | 38.37 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:42 | 39.70 | 38.70 | 919 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:42 | 40.03 | 39.03 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:24:43 | 40.35 | 39.35 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:24:43 | 40.68 | 39.68 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:24:43 | 41.01 | 40.01 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:44 | 41.34 | 40.34 | 916 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:44 | 41.67 | 40.67 | 906 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 18:24:45 | 41.99 | 40.99 | 906 | 0.54 | 0.17 | 49.5 |
| 5/2/2015 18:24:45 | 42.32 | 41.32 | 917 | 0.54 | 0.17 | 50.1 |
| 5/2/2015 18:24:45 | 42.65 | 41.65 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 18:24:46 | 42.98 | 41.98 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 18:24:46 | 43.31 | 42.31 | 914 | 0.54 | 0.17 | 50.0 |
| 5/2/2015 18:24:46 | 43.64 | 42.64 | 898 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:47 | 43.96 | 42.96 | 909 | 0.54 | 0.17 | 49.7 |
| 5/2/2015 18:24:47 | 44.29 | 43.29 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 18:24:48 | 44.62 | 43.62 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 18:24:48 | 44.95 | 43.95 | 899 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:48 | 45.28 | 44.28 | 899 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:49 | 45.60 | 44.60 | 911 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 18:24:50 | 45.93 | 44.93 | 911 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 18:24:50 | 46.26 | 45.26 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:50 | 46.59 | 45.59 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 18:24:51 | 46.92 | 45.92 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 18:24:51 | 47.24 | 46.24 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 18:24:52 | 47.57 | 46.57 | 901 | 0.54 | 0.17 | 49.3 |
| 5/2/2015 18:24:52 | 47.90 | 46.90 | 891 | 0.54 | 0.17 | 48.7 |
| 5/2/2015 18:24:52 | 48.23 | 47.23 | 897 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:53 | 48.56 | 47.56 | 897 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:53 | 48.88 | 47.88 | 897 | 0.54 | 0.17 | 49.1 |
| 5/2/2015 18:24:53 | 49.21 | 48.21 | 895 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 18:24:54 | 49.54 | 48.54 | 912 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 18:24:54 | 49.87 | 48.87 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 18:24:55 | 50.20 | 49.20 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 18:24:55 | 50.53 | 49.53 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 18:24:55 | 50.85 | 49.85 | 898 | 0.54 | 0.17 | 49.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:24:56 | 51.18 | 50.18 | 877 | 0.54 | 0.17 | 48.0 |
| 5/2/2015 | 18:24:56 | 51.51 | 50.51 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 | 18:24:57 | 51.84 | 50.84 | 798 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 | 18:25:15 | 52.17 | 51.17 | 63 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 | 18:25:17 | 52.49 | 51.49 | 171 | 0.54 | 0.17 | 9.4 |
| 5/2/2015 | 18:25:19 | 52.82 | 51.82 | 198 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 | 18:25:20 | 53.15 | 52.15 | 210 | 0.54 | 0.17 | 11.5 |
| 5/2/2015 | 18:25:21 | 53.48 | 52.48 | 222 | 0.54 | 0.17 | 12.2 |
| 5/2/2015 | 18:25:22 | 53.81 | 52.81 | 326 | 0.54 | 0.17 | 17.8 |
| 5/2/2015 | 18:25:23 | 54.13 | 53.13 | 398 | 0.54 | 0.17 | 21.8 |
| 5/2/2015 | 18:25:23 | 54.46 | 53.46 | 474 | 0.54 | 0.17 | 25.9 |
| 5/2/2015 | 18:25:24 | 54.79 | 53.79 | 529 | 0.54 | 0.17 | 28.9 |
| 5/2/2015 | 18:25:25 | 55.12 | 54.12 | 561 | 0.54 | 0.17 | 30.7 |
| 5/2/2015 | 18:25:26 | 55.45 | 54.45 | 550 | 0.54 | 0.17 | 30.1 |
| 5/2/2015 | 18:25:26 | 55.77 | 54.77 | 466 | 0.54 | 0.17 | 25.5 |
| 5/2/2015 | 18:25:28 | 56.10 | 55.10 | 395 | 0.54 | 0.17 | 21.6 |
| 5/2/2015 | 18:25:29 | 56.22 | 55.22 | 163 | 0.54 | 0.17 | 8.9 |

## P235 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:22:51

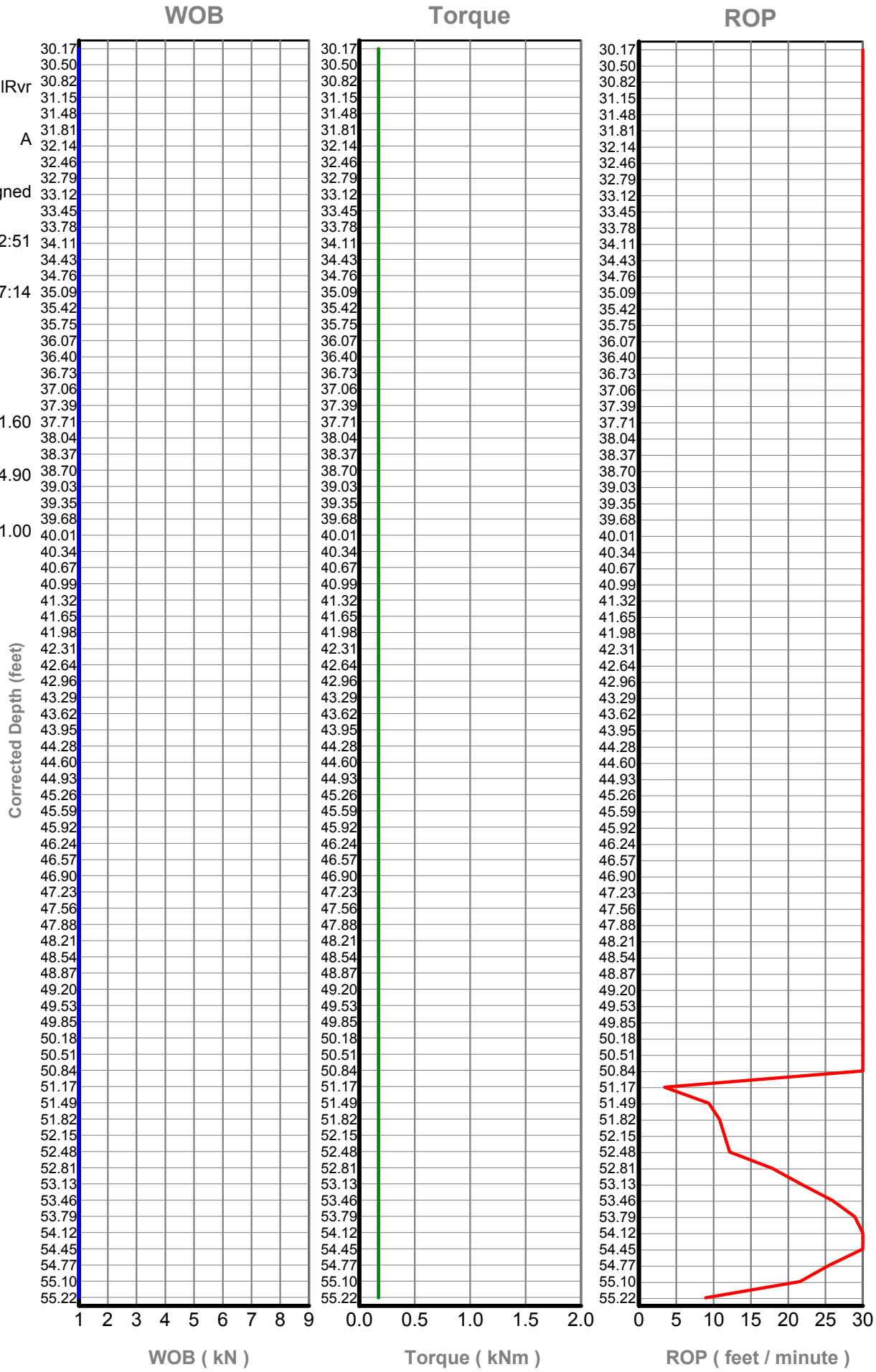
**End Date:**
5/2/2015 18:27:14

**Operator Note:**
'1 1.2 a Auto Complete'

**Northing:**
349,171.60

**Easting:**
225,464.90

**Tide (feet):**
1.00



## Hole: P236 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:24:00 | 31.17 | 30.17 | 1,298 | 0.32 | 0.39 | 71.0 |
| 5/2/2015 18:24:00 | 31.50 | 30.50 | 1,298 | 0.27 | 0.39 | 71.0 |
| 5/2/2015 18:24:01 | 31.82 | 30.82 | 1,298 | 0.27 | 0.39 | 71.0 |
| 5/2/2015 18:24:01 | 32.15 | 31.15 | 1,290 | 0.30 | 0.40 | 70.5 |
| 5/2/2015 18:24:01 | 32.48 | 31.48 | 1,290 | 0.30 | 0.40 | 70.5 |
| 5/2/2015 18:24:01 | 32.81 | 31.81 | 1,304 | 0.31 | 0.38 | 71.3 |
| 5/2/2015 18:24:02 | 33.14 | 32.14 | 1,304 | 0.31 | 0.38 | 71.3 |
| 5/2/2015 18:24:02 | 33.46 | 32.46 | 1,294 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 18:24:02 | 33.79 | 32.79 | 1,294 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 18:24:02 | 34.12 | 33.12 | 1,304 | 0.30 | 0.38 | 71.3 |
| 5/2/2015 18:24:03 | 34.45 | 33.45 | 1,304 | 0.30 | 0.38 | 71.3 |
| 5/2/2015 18:24:03 | 34.78 | 33.78 | 1,310 | 0.50 | 0.39 | 71.6 |
| 5/2/2015 18:24:03 | 35.11 | 34.11 | 1,310 | 0.50 | 0.39 | 71.6 |
| 5/2/2015 18:24:03 | 35.43 | 34.43 | 1,323 | 0.54 | 0.40 | 72.4 |
| 5/2/2015 18:24:04 | 35.76 | 34.76 | 1,304 | 0.48 | 0.41 | 71.3 |
| 5/2/2015 18:24:04 | 36.09 | 35.09 | 1,304 | 0.48 | 0.41 | 71.3 |
| 5/2/2015 18:24:04 | 36.42 | 35.42 | 1,305 | 0.29 | 0.41 | 71.4 |
| 5/2/2015 18:24:05 | 36.75 | 35.75 | 1,305 | 0.29 | 0.41 | 71.4 |
| 5/2/2015 18:24:05 | 37.07 | 36.07 | 1,295 | 0.30 | 0.38 | 70.8 |
| 5/2/2015 18:24:05 | 37.40 | 36.40 | 1,295 | 0.30 | 0.38 | 70.8 |
| 5/2/2015 18:24:05 | 37.73 | 36.73 | 1,301 | 0.30 | 0.39 | 71.1 |
| 5/2/2015 18:24:06 | 38.06 | 37.06 | 1,301 | 0.30 | 0.39 | 71.1 |
| 5/2/2015 18:24:06 | 38.39 | 37.39 | 1,304 | 0.31 | 0.40 | 71.3 |
| 5/2/2015 18:24:06 | 38.71 | 37.71 | 1,304 | 0.31 | 0.40 | 71.3 |
| 5/2/2015 18:24:06 | 39.04 | 38.04 | 1,312 | 0.31 | 0.39 | 71.8 |
| 5/2/2015 18:24:07 | 39.37 | 38.37 | 1,312 | 0.31 | 0.39 | 71.8 |
| 5/2/2015 18:24:07 | 39.70 | 38.70 | 1,299 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 18:24:07 | 40.03 | 39.03 | 1,299 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 18:24:07 | 40.35 | 39.35 | 1,299 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 18:24:08 | 40.68 | 39.68 | 1,299 | 0.31 | 0.39 | 71.0 |
| 5/2/2015 18:24:08 | 41.01 | 40.01 | 1,318 | 0.33 | 0.41 | 72.1 |
| 5/2/2015 18:24:08 | 41.34 | 40.34 | 1,318 | 0.33 | 0.41 | 72.1 |
| 5/2/2015 18:24:08 | 41.67 | 40.67 | 1,309 | 0.32 | 0.40 | 71.6 |
| 5/2/2015 18:24:09 | 41.99 | 40.99 | 1,309 | 0.32 | 0.40 | 71.6 |
| 5/2/2015 18:24:09 | 42.32 | 41.32 | 1,307 | 0.33 | 0.40 | 71.5 |
| 5/2/2015 18:24:09 | 42.65 | 41.65 | 1,307 | 0.33 | 0.40 | 71.5 |
| 5/2/2015 18:24:09 | 42.98 | 41.98 | 1,309 | 0.30 | 0.39 | 71.6 |
| 5/2/2015 18:24:10 | 43.31 | 42.31 | 1,329 | 0.31 | 0.39 | 72.7 |
| 5/2/2015 18:24:10 | 43.64 | 42.64 | 1,329 | 0.31 | 0.39 | 72.7 |
| 5/2/2015 18:24:10 | 43.96 | 42.96 | 1,312 | 0.31 | 0.40 | 71.8 |
| 5/2/2015 18:24:11 | 44.29 | 43.29 | 1,312 | 0.31 | 0.40 | 71.8 |
| 5/2/2015 18:24:11 | 44.62 | 43.62 | 1,315 | 0.31 | 0.39 | 71.9 |
| 5/2/2015 18:24:12 | 44.95 | 43.95 | 1,315 | 0.31 | 0.39 | 71.9 |
| 5/2/2015 18:24:12 | 45.28 | 44.28 | 1,321 | 0.31 | 0.38 | 72.2 |
| 5/2/2015 18:24:12 | 45.60 | 44.60 | 1,321 | 0.31 | 0.38 | 72.2 |
| 5/2/2015 18:24:12 | 45.93 | 44.93 | 1,315 | 0.30 | 0.38 | 71.9 |
| 5/2/2015 18:24:13 | 46.26 | 45.26 | 1,315 | 0.30 | 0.38 | 71.9 |
| 5/2/2015 18:24:13 | 46.59 | 45.59 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/2/2015 18:24:13 | 46.92 | 45.92 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/2/2015 18:24:13 | 47.24 | 46.24 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/2/2015 18:24:14 | 47.57 | 46.57 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/2/2015 18:24:14 | 47.90 | 46.90 | 1,321 | 0.31 | 0.38 | 72.2 |
| 5/2/2015 18:24:14 | 48.23 | 47.23 | 1,321 | 0.31 | 0.38 | 72.2 |
| 5/2/2015 18:24:14 | 48.56 | 47.56 | 1,315 | 0.31 | 0.39 | 71.9 |
| 5/2/2015 18:24:15 | 48.88 | 47.88 | 1,315 | 0.31 | 0.39 | 71.9 |
| 5/2/2015 18:24:15 | 49.21 | 48.21 | 1,315 | 0.31 | 0.38 | 71.9 |
| 5/2/2015 18:24:15 | 49.54 | 48.54 | 1,315 | 0.31 | 0.38 | 71.9 |
| 5/2/2015 18:24:15 | 49.87 | 48.87 | 1,304 | 0.30 | 0.39 | 71.3 |
| 5/2/2015 18:24:16 | 50.20 | 49.20 | 1,304 | 0.30 | 0.39 | 71.3 |
| 5/2/2015 18:24:16 | 50.53 | 49.53 | 1,315 | 0.31 | 0.39 | 71.9 |
| 5/2/2015 18:24:16 | 50.85 | 49.85 | 1,310 | 0.31 | 0.39 | 71.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:24:17 | 51.18 | 50.18 | 1,310 | 0.31 | 0.39 | 71.6 |
| 5/2/2015 | 18:24:17 | 51.51 | 50.51 | 1,307 | 0.29 | 0.45 | 71.5 |
| 5/2/2015 | 18:24:21 | 51.84 | 50.84 | 0 | 2.32 | 0.41 | 0.0 |
| 5/2/2015 | 18:24:25 | 52.17 | 51.17 | 0 | 2.32 | 0.41 | 0.0 |
| 5/2/2015 | 18:24:22 | 52.49 | 51.49 | 228 | 2.41 | 0.40 | 12.5 |
| 5/2/2015 | 18:24:22 | 52.82 | 51.82 | 454 | 2.36 | 0.40 | 24.8 |
| 5/2/2015 | 18:24:23 | 53.15 | 52.15 | 454 | 2.36 | 0.40 | 24.8 |
| 5/2/2015 | 18:24:23 | 53.48 | 52.48 | 687 | 2.33 | 0.40 | 37.5 |
| 5/2/2015 | 18:24:23 | 53.81 | 52.81 | 687 | 2.33 | 0.40 | 37.5 |
| 5/2/2015 | 18:24:23 | 54.13 | 53.13 | 912 | 2.09 | 0.41 | 49.9 |
| 5/2/2015 | 18:24:24 | 54.46 | 53.46 | 1,132 | 2.10 | 0.40 | 61.9 |
| 5/2/2015 | 18:24:24 | 54.79 | 53.79 | 1,132 | 2.10 | 0.40 | 61.9 |
| 5/2/2015 | 18:24:24 | 55.12 | 54.12 | 1,142 | 2.10 | 0.40 | 62.4 |
| 5/2/2015 | 18:24:25 | 55.45 | 54.45 | 1,142 | 2.10 | 0.40 | 62.4 |
| 5/2/2015 | 18:24:25 | 55.77 | 54.77 | 1,145 | 2.10 | 0.41 | 62.6 |
| 5/2/2015 | 18:24:25 | 55.96 | 54.96 | 1,145 | 2.10 | 0.41 | 62.6 |

## P236 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:22:25

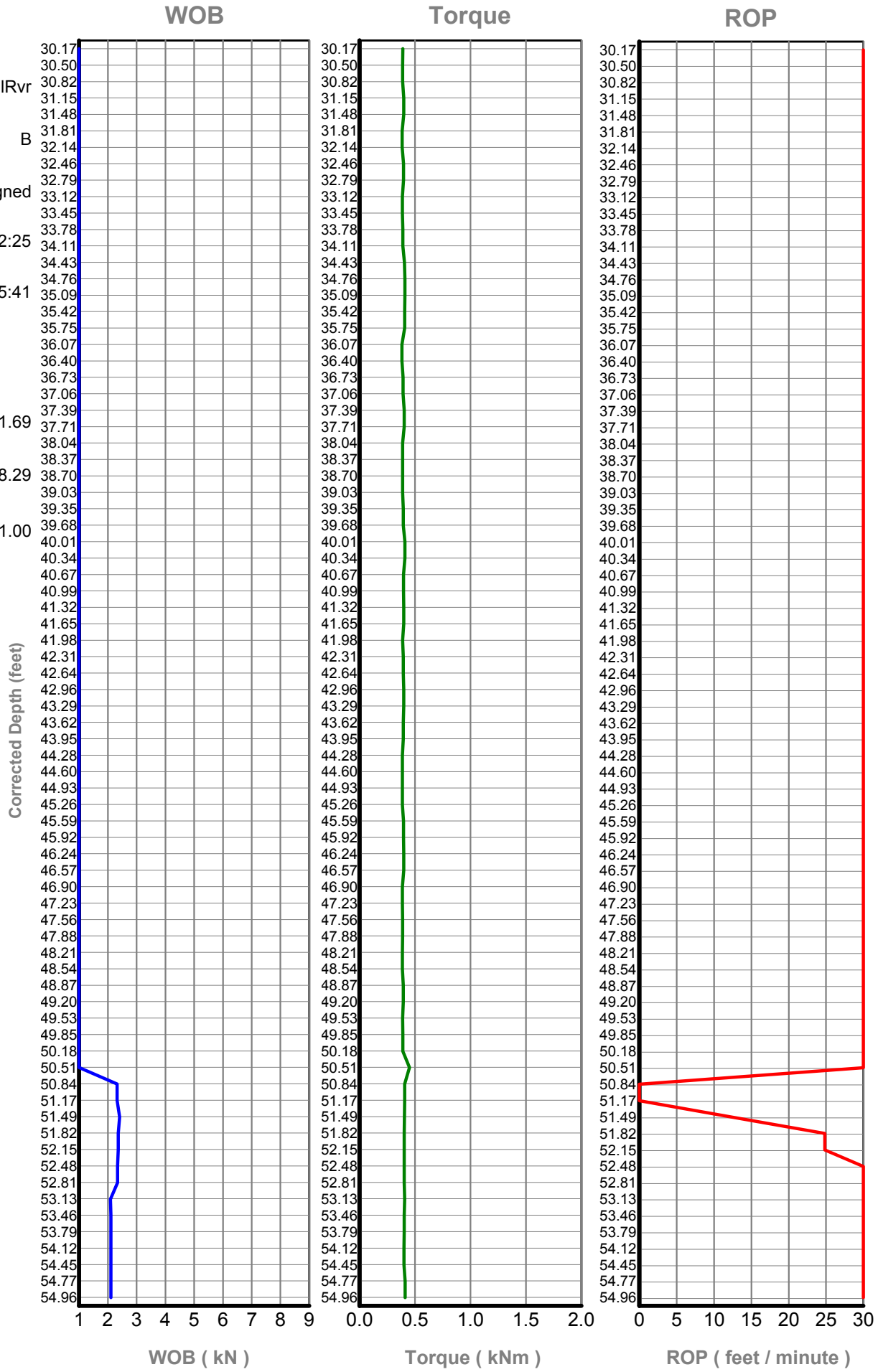
**End Date:**
5/2/2015 18:25:41

**Operator Note:**
'1 1.1 b Auto Complete'

**Northing:**
349,211.69

**Easting:**
225,528.29

**Tide (feet):**
1.00



## Hole: P237 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:23:30 | 31.17 | 30.17 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:31 | 31.50 | 30.50 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:31 | 31.82 | 30.82 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 18:23:31 | 32.15 | 31.15 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 18:23:32 | 32.48 | 31.48 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 18:23:32 | 32.81 | 31.81 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 18:23:32 | 33.14 | 32.14 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:33 | 33.46 | 32.46 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:33 | 33.79 | 32.79 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:34 | 34.12 | 33.12 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:34 | 34.45 | 33.45 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:34 | 34.78 | 33.78 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:35 | 35.11 | 34.11 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 18:23:35 | 35.43 | 34.43 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 18:23:35 | 35.76 | 34.76 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:36 | 36.09 | 35.09 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 18:23:36 | 36.42 | 35.42 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 18:23:36 | 36.75 | 35.75 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 18:23:37 | 37.07 | 36.07 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 18:23:37 | 37.40 | 36.40 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 18:23:37 | 37.73 | 36.73 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 18:23:38 | 38.06 | 37.06 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 18:23:38 | 38.39 | 37.39 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 18:23:38 | 38.71 | 37.71 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 18:23:38 | 39.04 | 38.04 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:39 | 39.37 | 38.37 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:39 | 39.70 | 38.70 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:39 | 40.03 | 39.03 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:40 | 40.35 | 39.35 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:40 | 40.68 | 39.68 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:40 | 41.01 | 40.01 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 18:23:41 | 41.34 | 40.34 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 18:23:41 | 41.67 | 40.67 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:41 | 41.99 | 40.99 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:42 | 42.32 | 41.32 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:42 | 42.65 | 41.65 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:42 | 42.98 | 41.98 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:43 | 43.31 | 42.31 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 18:23:43 | 43.64 | 42.64 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:43 | 43.96 | 42.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:43 | 44.29 | 43.29 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 18:23:44 | 44.62 | 43.62 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:44 | 44.95 | 43.95 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:44 | 45.28 | 44.28 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 18:23:45 | 45.60 | 44.60 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 18:23:46 | 45.93 | 44.93 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 18:23:46 | 46.26 | 45.26 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 18:23:46 | 46.59 | 45.59 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:47 | 46.92 | 45.92 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:47 | 47.24 | 46.24 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:47 | 47.57 | 46.57 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:47 | 47.90 | 46.90 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 18:23:48 | 48.23 | 47.23 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:48 | 48.56 | 47.56 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:23:48 | 48.88 | 47.88 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 18:24:00 | 49.21 | 48.21 | 60 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 18:24:01 | 49.54 | 48.54 | 60 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 18:24:01 | 49.87 | 48.87 | 254 | 1.14 | 0.29 | 13.9 |
| 5/2/2015 18:24:01 | 50.20 | 49.20 | 463 | 1.14 | 0.29 | 25.3 |
| 5/2/2015 18:24:02 | 50.53 | 49.53 | 463 | 1.14 | 0.29 | 25.3 |
| 5/2/2015 18:24:02 | 50.85 | 49.85 | 669 | 1.14 | 0.29 | 36.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:24:02 | 51.18 | 50.18 | 878 | 1.14 | 0.29 | 48.0 |
| 5/2/2015 | 18:24:03 | 51.51 | 50.51 | 878 | 1.14 | 0.29 | 48.0 |
| 5/2/2015 | 18:24:03 | 51.84 | 50.84 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 | 18:24:03 | 52.17 | 51.17 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 | 18:24:04 | 52.49 | 51.49 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 | 18:24:04 | 52.82 | 51.82 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 | 18:24:04 | 53.15 | 52.15 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 | 18:24:05 | 53.48 | 52.48 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 | 18:24:06 | 53.81 | 52.81 | 714 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 18:24:06 | 54.13 | 53.13 | 600 | 1.14 | 0.29 | 32.8 |
| 5/2/2015 | 18:24:08 | 54.46 | 53.46 | 322 | 1.14 | 0.29 | 17.6 |
| 5/2/2015 | 18:24:09 | 54.79 | 53.79 | 419 | 1.14 | 0.29 | 22.9 |
| 5/2/2015 | 18:24:09 | 55.12 | 54.12 | 507 | 1.14 | 0.29 | 27.7 |
| 5/2/2015 | 18:24:11 | 55.45 | 54.45 | 291 | 1.14 | 0.29 | 15.9 |
| 5/2/2015 | 18:24:11 | 55.77 | 54.77 | 343 | 1.14 | 0.29 | 18.8 |
| 5/2/2015 | 18:24:13 | 56.10 | 55.10 | 369 | 1.14 | 0.29 | 20.2 |
| 5/2/2015 | 18:24:15 | 56.33 | 55.33 | 119 | 1.14 | 0.29 | 6.5 |

## P237 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:22:26

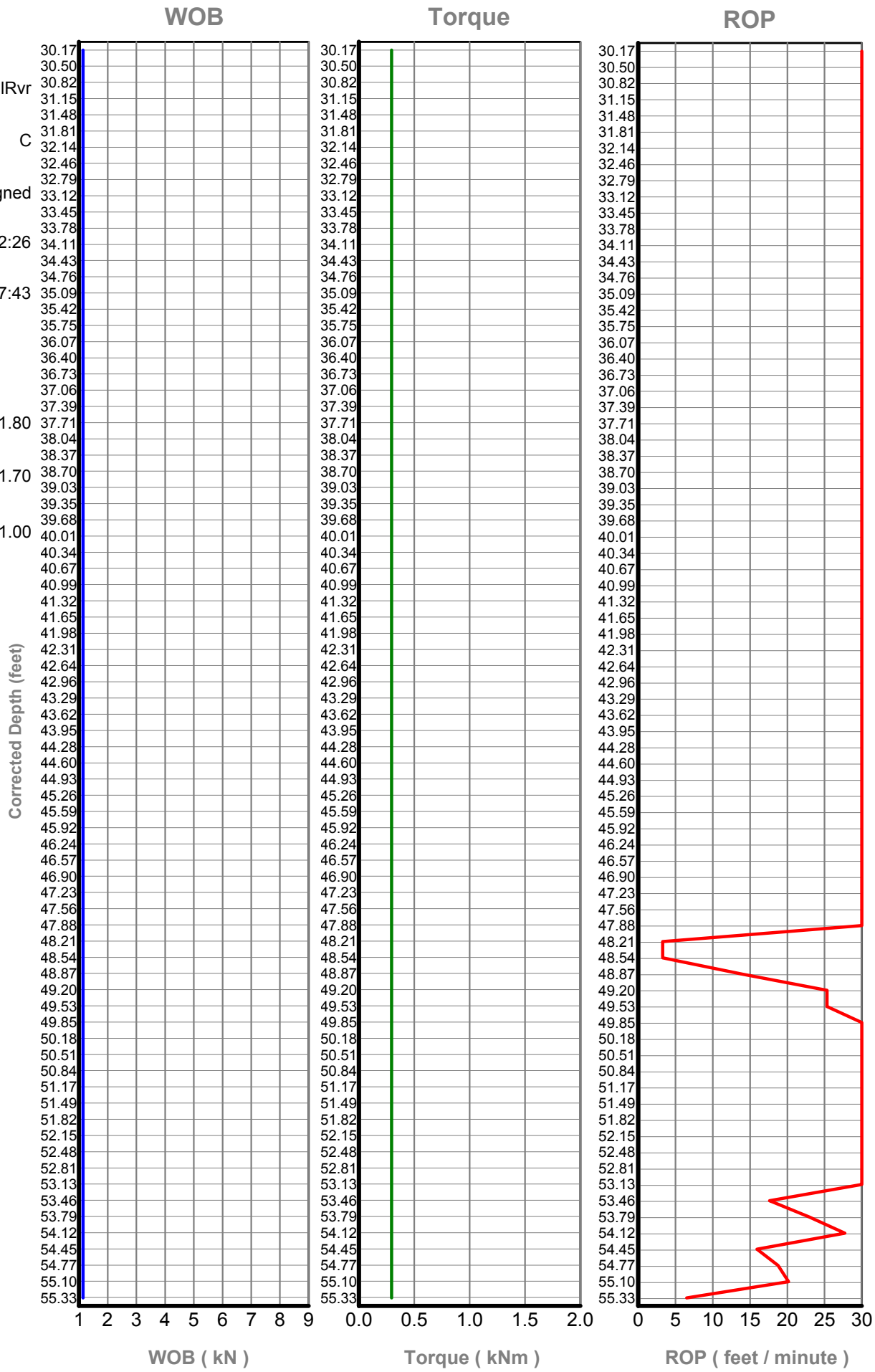
**End Date:**
5/2/2015 18:27:43

**Operator Note:**
'1 1.2 c Auto Complete'

**Northing:**
349,251.80

**Easting:**
225,591.70

**Tide (feet):**
1.00



## Hole: P238 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:37:23 | 31.82 | 30.22 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:23 | 32.15 | 30.55 | 806 | 0.54 | 0.17 | 44.1 |
| 5/2/2015 17:37:24 | 32.48 | 30.88 | 806 | 0.54 | 0.17 | 44.1 |
| 5/2/2015 17:37:24 | 32.81 | 31.21 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:24 | 33.14 | 31.54 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:25 | 33.46 | 31.86 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:25 | 33.79 | 32.19 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:26 | 34.12 | 32.52 | 813 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:26 | 34.45 | 32.85 | 812 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:27 | 34.78 | 33.18 | 812 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:27 | 35.11 | 33.51 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:27 | 35.43 | 33.83 | 821 | 0.54 | 0.17 | 44.9 |
| 5/2/2015 17:37:28 | 35.76 | 34.16 | 821 | 0.54 | 0.17 | 44.9 |
| 5/2/2015 17:37:28 | 36.09 | 34.49 | 809 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:29 | 36.42 | 34.82 | 809 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:29 | 36.75 | 35.15 | 809 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:29 | 37.07 | 35.47 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:30 | 37.40 | 35.80 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:30 | 37.73 | 36.13 | 807 | 0.54 | 0.17 | 44.1 |
| 5/2/2015 17:37:31 | 38.06 | 36.46 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:37:32 | 38.39 | 36.79 | 809 | 0.54 | 0.17 | 44.3 |
| 5/2/2015 17:37:32 | 38.71 | 37.11 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:37:33 | 39.04 | 37.44 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:37:33 | 39.37 | 37.77 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:37:33 | 39.70 | 38.10 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:37:34 | 40.03 | 38.43 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:34 | 40.35 | 38.75 | 811 | 0.54 | 0.17 | 44.4 |
| 5/2/2015 17:37:35 | 40.68 | 39.08 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:35 | 41.01 | 39.41 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:36 | 41.34 | 39.74 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:36 | 41.67 | 40.07 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 17:37:36 | 41.99 | 40.39 | 797 | 0.54 | 0.17 | 43.6 |
| 5/2/2015 17:37:37 | 42.32 | 40.72 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:37 | 42.65 | 41.05 | 804 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:38 | 42.98 | 41.38 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:38 | 43.31 | 41.71 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:38 | 43.64 | 42.04 | 802 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:39 | 43.96 | 42.36 | 816 | 0.54 | 0.17 | 44.6 |
| 5/2/2015 17:37:39 | 44.29 | 42.69 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:40 | 44.62 | 43.02 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:40 | 44.95 | 43.35 | 808 | 0.54 | 0.17 | 44.2 |
| 5/2/2015 17:37:41 | 45.28 | 43.68 | 805 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:41 | 45.60 | 44.00 | 805 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:41 | 45.93 | 44.33 | 804 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:42 | 46.26 | 44.66 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:42 | 46.59 | 44.99 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:43 | 46.92 | 45.32 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:44 | 47.24 | 45.64 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:44 | 47.57 | 45.97 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:45 | 47.90 | 46.30 | 806 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:45 | 48.23 | 46.63 | 805 | 0.54 | 0.17 | 44.0 |
| 5/2/2015 17:37:45 | 48.56 | 46.96 | 804 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 17:37:46 | 48.88 | 47.28 | 801 | 0.54 | 0.17 | 43.8 |
| 5/2/2015 17:37:46 | 49.21 | 47.61 | 786 | 0.54 | 0.17 | 43.0 |
| 5/2/2015 17:37:47 | 49.54 | 47.94 | 755 | 0.54 | 0.17 | 41.3 |
| 5/2/2015 17:37:47 | 49.87 | 48.27 | 711 | 0.54 | 0.17 | 38.9 |
| 5/2/2015 17:37:48 | 50.20 | 48.60 | 619 | 0.54 | 0.17 | 33.9 |
| 5/2/2015 17:37:49 | 50.53 | 48.93 | 608 | 0.54 | 0.17 | 33.2 |
| 5/2/2015 17:37:49 | 50.85 | 49.25 | 624 | 0.54 | 0.17 | 34.1 |
| 5/2/2015 17:37:50 | 51.18 | 49.58 | 644 | 0.54 | 0.17 | 35.2 |
| 5/2/2015 17:37:50 | 51.51 | 49.91 | 667 | 0.54 | 0.17 | 36.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:37:51 | 51.84 | 50.24 | 689 | 0.54 | 0.17 | 37.7 |
| 5/2/2015 | 17:37:51 | 52.17 | 50.57 | 689 | 0.54 | 0.17 | 37.7 |
| 5/2/2015 | 17:37:52 | 52.49 | 50.89 | 669 | 0.54 | 0.17 | 36.6 |
| 5/2/2015 | 17:38:11 | 52.82 | 51.22 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 | 17:38:12 | 53.15 | 51.55 | 147 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 | 17:38:12 | 53.48 | 51.88 | 287 | 0.54 | 0.17 | 15.7 |
| 5/2/2015 | 17:38:13 | 53.81 | 52.21 | 328 | 0.54 | 0.17 | 18.0 |
| 5/2/2015 | 17:38:14 | 54.13 | 52.53 | 400 | 0.54 | 0.17 | 21.9 |
| 5/2/2015 | 17:38:15 | 54.46 | 52.86 | 412 | 0.54 | 0.17 | 22.5 |
| 5/2/2015 | 17:38:15 | 54.79 | 53.19 | 515 | 0.54 | 0.17 | 28.2 |
| 5/2/2015 | 17:38:16 | 55.12 | 53.52 | 515 | 0.54 | 0.17 | 28.2 |
| 5/2/2015 | 17:38:16 | 55.45 | 53.85 | 501 | 0.54 | 0.17 | 27.4 |
| 5/2/2015 | 17:38:16 | 55.77 | 54.17 | 626 | 0.54 | 0.17 | 34.2 |
| 5/2/2015 | 17:38:17 | 56.10 | 54.50 | 626 | 0.54 | 0.17 | 34.2 |
| 5/2/2015 | 17:38:17 | 56.43 | 54.83 | 742 | 0.54 | 0.17 | 40.6 |
| 5/2/2015 | 17:38:18 | 56.76 | 55.16 | 744 | 0.54 | 0.17 | 40.7 |
| 5/2/2015 | 17:38:19 | 57.09 | 55.49 | 758 | 0.54 | 0.17 | 41.4 |
| 5/2/2015 | 17:38:19 | 57.21 | 55.61 | 758 | 0.54 | 0.17 | 41.4 |

## P238 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:35:22

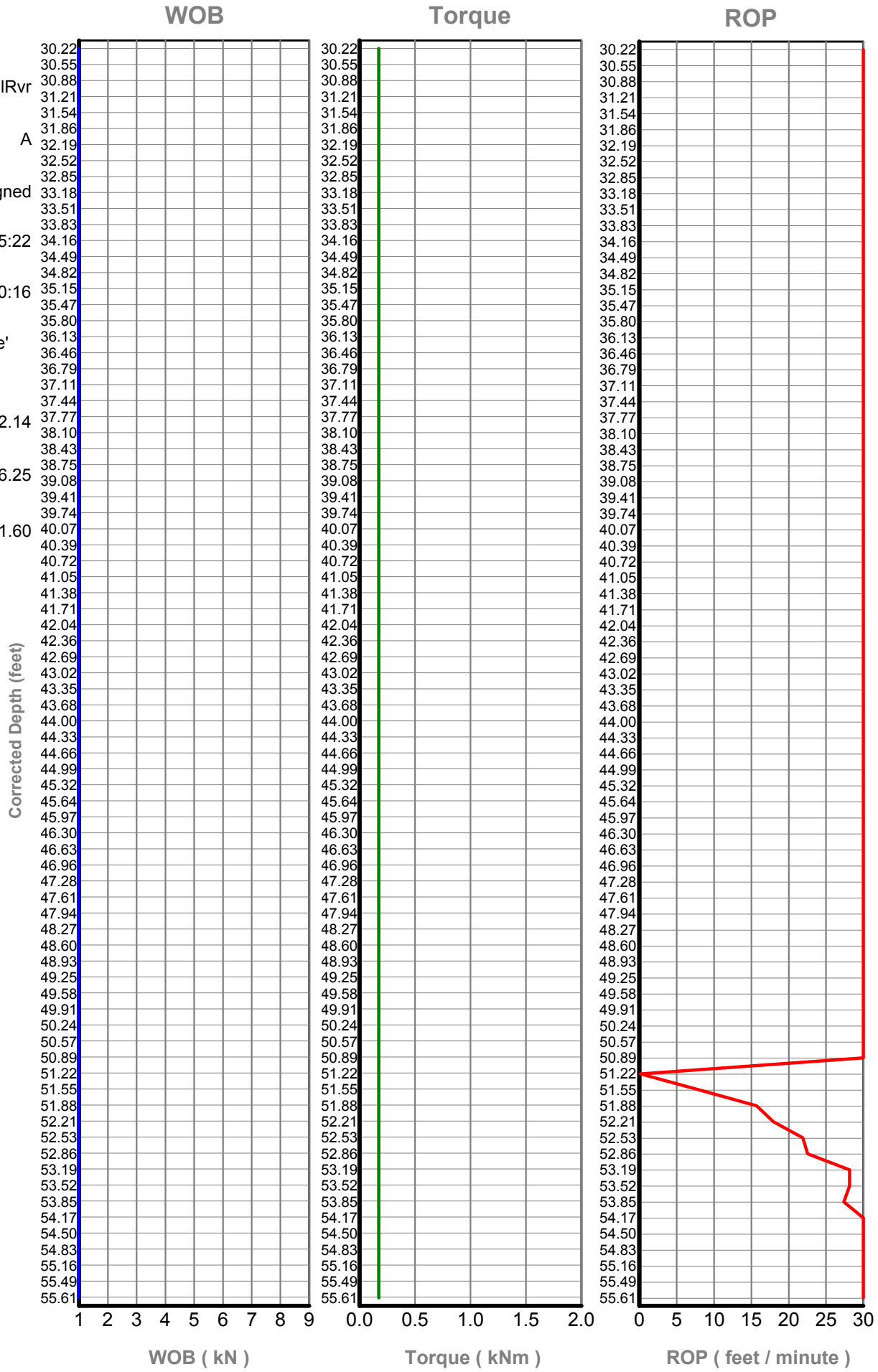
**End Date:**
5/2/2015 17:40:16

**Operator Note:**
'1.6 1.8 a Auto Complete'

**Northing:**
349,282.14

**Easting:**
225,656.25

**Tide (feet):**
1.60



## Hole: P239 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:36:27 | 31.82 | 30.22 | 1,316 | 0.40 | 0.42 | 72.0 |
| 5/2/2015 17:36:27 | 32.15 | 30.55 | 1,316 | 0.40 | 0.42 | 72.0 |
| 5/2/2015 17:36:27 | 32.48 | 30.88 | 1,298 | 0.41 | 0.43 | 71.0 |
| 5/2/2015 17:36:28 | 32.81 | 31.21 | 1,298 | 0.41 | 0.43 | 71.0 |
| 5/2/2015 17:36:28 | 33.14 | 31.54 | 1,289 | 0.42 | 0.43 | 70.5 |
| 5/2/2015 17:36:28 | 33.46 | 31.86 | 1,289 | 0.42 | 0.43 | 70.5 |
| 5/2/2015 17:36:28 | 33.79 | 32.19 | 1,278 | 0.42 | 0.42 | 69.9 |
| 5/2/2015 17:36:29 | 34.12 | 32.52 | 1,278 | 0.42 | 0.42 | 69.9 |
| 5/2/2015 17:36:29 | 34.45 | 32.85 | 1,269 | 0.43 | 0.42 | 69.4 |
| 5/2/2015 17:36:29 | 34.78 | 33.18 | 1,272 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:30 | 35.11 | 33.51 | 1,272 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:30 | 35.43 | 33.83 | 1,258 | 0.40 | 0.43 | 68.8 |
| 5/2/2015 17:36:30 | 35.76 | 34.16 | 1,258 | 0.40 | 0.43 | 68.8 |
| 5/2/2015 17:36:30 | 36.09 | 34.49 | 1,272 | 0.40 | 0.42 | 69.6 |
| 5/2/2015 17:36:31 | 36.42 | 34.82 | 1,272 | 0.40 | 0.42 | 69.6 |
| 5/2/2015 17:36:31 | 36.75 | 35.15 | 1,272 | 0.45 | 0.44 | 69.6 |
| 5/2/2015 17:36:31 | 37.07 | 35.47 | 1,272 | 0.45 | 0.44 | 69.6 |
| 5/2/2015 17:36:31 | 37.40 | 35.80 | 1,269 | 0.41 | 0.43 | 69.4 |
| 5/2/2015 17:36:32 | 37.73 | 36.13 | 1,269 | 0.41 | 0.43 | 69.4 |
| 5/2/2015 17:36:32 | 38.06 | 36.46 | 1,269 | 0.41 | 0.44 | 69.4 |
| 5/2/2015 17:36:32 | 38.39 | 36.79 | 1,269 | 0.41 | 0.44 | 69.4 |
| 5/2/2015 17:36:32 | 38.71 | 37.11 | 1,268 | 0.41 | 0.43 | 69.3 |
| 5/2/2015 17:36:33 | 39.04 | 37.44 | 1,273 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:33 | 39.37 | 37.77 | 1,273 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:33 | 39.70 | 38.10 | 1,273 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:34 | 40.03 | 38.43 | 1,273 | 0.41 | 0.42 | 69.6 |
| 5/2/2015 17:36:34 | 40.35 | 38.75 | 1,258 | 0.40 | 0.43 | 68.8 |
| 5/2/2015 17:36:34 | 40.68 | 39.08 | 1,258 | 0.40 | 0.43 | 68.8 |
| 5/2/2015 17:36:34 | 41.01 | 39.41 | 1,277 | 0.39 | 0.42 | 69.8 |
| 5/2/2015 17:36:35 | 41.34 | 39.74 | 1,277 | 0.39 | 0.42 | 69.8 |
| 5/2/2015 17:36:35 | 41.67 | 40.07 | 1,271 | 0.39 | 0.44 | 69.5 |
| 5/2/2015 17:36:35 | 41.99 | 40.39 | 1,271 | 0.39 | 0.44 | 69.5 |
| 5/2/2015 17:36:35 | 42.32 | 40.72 | 1,263 | 0.39 | 0.42 | 69.1 |
| 5/2/2015 17:36:36 | 42.65 | 41.05 | 1,271 | 0.39 | 0.44 | 69.5 |
| 5/2/2015 17:36:37 | 42.98 | 41.38 | 1,271 | 0.39 | 0.44 | 69.5 |
| 5/2/2015 17:36:36 | 43.31 | 41.71 | 1,284 | 0.39 | 0.42 | 70.2 |
| 5/2/2015 17:36:37 | 43.64 | 42.04 | 1,284 | 0.39 | 0.42 | 70.2 |
| 5/2/2015 17:36:37 | 43.96 | 42.36 | 1,272 | 0.39 | 0.42 | 69.6 |
| 5/2/2015 17:36:38 | 44.29 | 42.69 | 1,272 | 0.39 | 0.42 | 69.6 |
| 5/2/2015 17:36:38 | 44.62 | 43.02 | 1,279 | 0.39 | 0.42 | 70.0 |
| 5/2/2015 17:36:38 | 44.95 | 43.35 | 1,279 | 0.39 | 0.42 | 70.0 |
| 5/2/2015 17:36:38 | 45.28 | 43.68 | 1,272 | 0.39 | 0.43 | 69.6 |
| 5/2/2015 17:36:39 | 45.60 | 44.00 | 1,272 | 0.39 | 0.43 | 69.6 |
| 5/2/2015 17:36:39 | 45.93 | 44.33 | 1,272 | 0.40 | 0.43 | 69.6 |
| 5/2/2015 17:36:39 | 46.26 | 44.66 | 1,272 | 0.40 | 0.43 | 69.6 |
| 5/2/2015 17:36:39 | 46.59 | 44.99 | 1,266 | 0.39 | 0.43 | 69.2 |
| 5/2/2015 17:36:40 | 46.92 | 45.32 | 1,266 | 0.39 | 0.43 | 69.2 |
| 5/2/2015 17:36:40 | 47.24 | 45.64 | 1,266 | 0.39 | 0.43 | 69.2 |
| 5/2/2015 17:36:40 | 47.57 | 45.97 | 1,266 | 0.40 | 0.43 | 69.2 |
| 5/2/2015 17:36:41 | 47.90 | 46.30 | 1,266 | 0.40 | 0.43 | 69.2 |
| 5/2/2015 17:36:41 | 48.23 | 46.63 | 1,246 | 0.40 | 0.43 | 68.1 |
| 5/2/2015 17:36:41 | 48.56 | 46.96 | 1,246 | 0.40 | 0.43 | 68.1 |
| 5/2/2015 17:36:41 | 48.88 | 47.28 | 1,246 | 0.41 | 0.43 | 68.1 |
| 5/2/2015 17:36:42 | 49.21 | 47.61 | 1,246 | 0.41 | 0.43 | 68.1 |
| 5/2/2015 17:36:42 | 49.54 | 47.94 | 1,255 | 0.41 | 0.44 | 68.6 |
| 5/2/2015 17:36:42 | 49.87 | 48.27 | 1,255 | 0.41 | 0.44 | 68.6 |
| 5/2/2015 17:36:42 | 50.20 | 48.60 | 1,251 | 0.40 | 0.44 | 68.4 |
| 5/2/2015 17:36:43 | 50.53 | 48.93 | 1,245 | 0.40 | 0.42 | 68.1 |
| 5/2/2015 17:36:43 | 50.85 | 49.25 | 1,245 | 0.40 | 0.42 | 68.1 |
| 5/2/2015 17:36:43 | 51.18 | 49.58 | 1,223 | 0.35 | 0.38 | 66.9 |
| 5/2/2015 17:36:44 | 51.51 | 49.91 | 1,223 | 0.35 | 0.38 | 66.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:36:44 | 51.84 | 50.24 | 1,223 | 0.31 | 0.40 | 66.9 |
| 5/2/2015 | 17:36:44 | 52.17 | 50.57 | 1,223 | 0.31 | 0.40 | 66.9 |
| 5/2/2015 | 17:36:44 | 52.49 | 50.89 | 1,235 | 0.29 | 0.40 | 67.6 |
| 5/2/2015 | 17:36:45 | 52.82 | 51.22 | 1,199 | 0.29 | 0.41 | 65.6 |
| 5/2/2015 | 17:36:45 | 53.15 | 51.55 | 1,199 | 0.29 | 0.41 | 65.6 |
| 5/2/2015 | 17:36:45 | 53.48 | 51.88 | 1,163 | 0.29 | 0.40 | 63.6 |
| 5/2/2015 | 17:36:46 | 53.81 | 52.21 | 1,163 | 0.29 | 0.40 | 63.6 |
| 5/2/2015 | 17:36:46 | 54.13 | 52.53 | 1,163 | 0.29 | 0.40 | 63.6 |
| 5/2/2015 | 17:36:46 | 54.46 | 52.86 | 1,139 | 0.29 | 0.41 | 62.3 |
| 5/2/2015 | 17:36:47 | 54.79 | 53.19 | 1,139 | 0.29 | 0.41 | 62.3 |
| 5/2/2015 | 17:36:47 | 55.12 | 53.52 | 1,129 | 0.29 | 0.41 | 61.8 |
| 5/2/2015 | 17:36:50 | 55.45 | 53.85 | 353 | 1.91 | 0.39 | 19.3 |
| 5/2/2015 | 17:36:50 | 55.77 | 54.17 | 309 | 1.89 | 0.40 | 16.9 |
| 5/2/2015 | 17:36:51 | 56.10 | 54.50 | 309 | 1.89 | 0.40 | 16.9 |
| 5/2/2015 | 17:36:51 | 56.43 | 54.83 | 399 | 2.38 | 0.41 | 21.8 |
| 5/2/2015 | 17:36:51 | 56.76 | 55.16 | 611 | 1.89 | 0.41 | 33.4 |
| 5/2/2015 | 17:36:52 | 57.09 | 55.49 | 611 | 1.89 | 0.41 | 33.4 |
| 5/2/2015 | 17:36:52 | 57.41 | 55.81 | 828 | 1.93 | 0.40 | 45.3 |
| 5/2/2015 | 17:36:52 | 57.74 | 56.14 | 828 | 1.93 | 0.40 | 45.3 |
| 5/2/2015 | 17:36:52 | 58.07 | 56.47 | 1,043 | 1.97 | 0.40 | 57.0 |
| 5/2/2015 | 17:36:53 | 58.40 | 56.80 | 1,083 | 2.01 | 0.40 | 59.2 |
| 5/2/2015 | 17:36:53 | 58.73 | 57.13 | 1,083 | 2.01 | 0.40 | 59.2 |
| 5/2/2015 | 17:36:53 | 59.06 | 57.46 | 1,081 | 2.04 | 0.41 | 59.1 |
| 5/2/2015 | 17:36:53 | 59.29 | 57.69 | 1,081 | 2.04 | 0.41 | 59.1 |

## P239 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:34:50

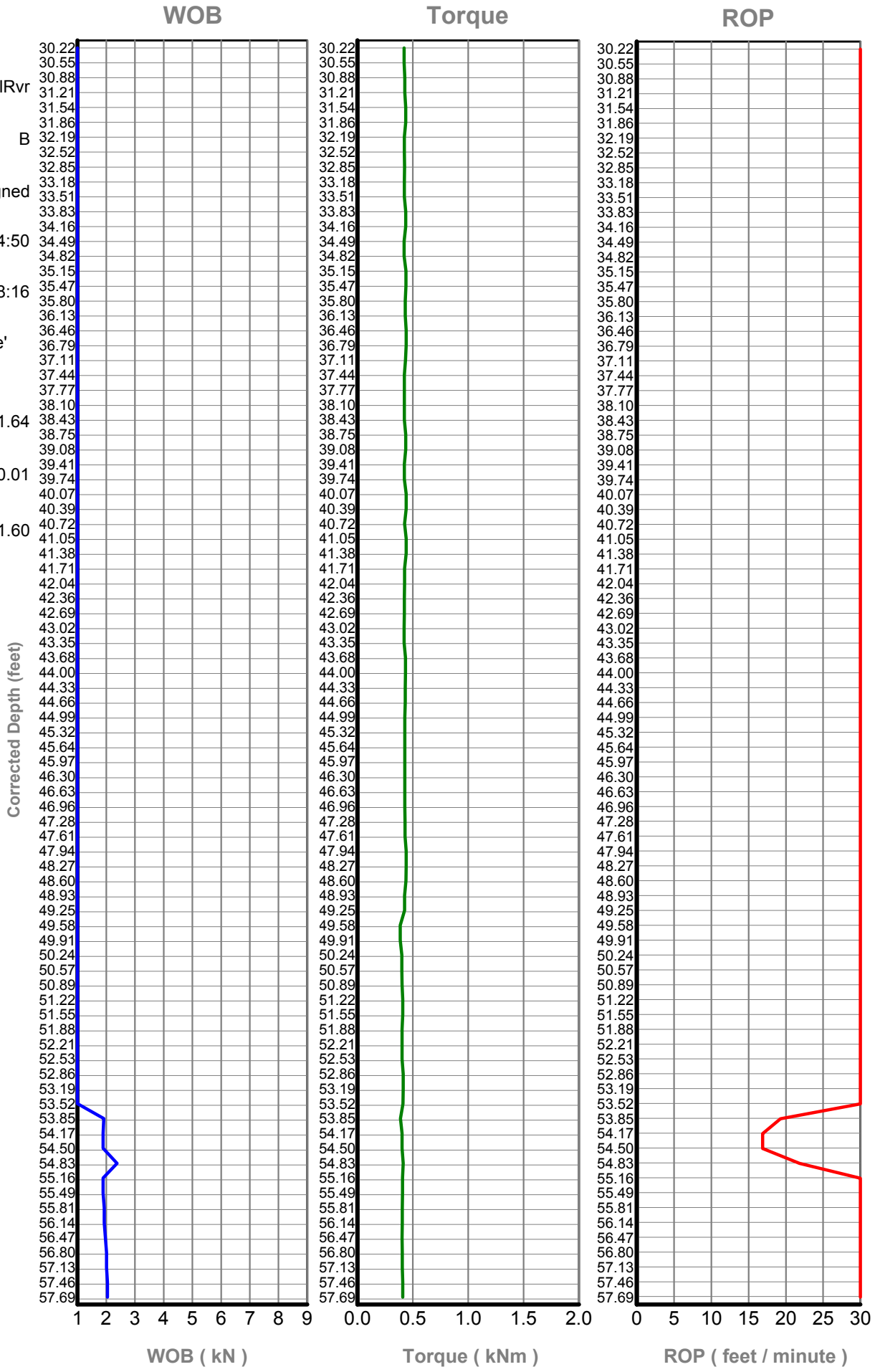
**End Date:**
5/2/2015 17:38:16

**Operator Note:**
'1.6 1.8 b Auto Complete'

**Northing:**
349,321.64

**Easting:**
225,720.01

**Tide (feet):**
1.60



## Hole: P24 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:16:52 | 33.46 | 30.06 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 4:16:52 | 33.79 | 30.39 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:16:52 | 34.12 | 30.72 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:16:53 | 34.45 | 31.05 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:16:53 | 34.78 | 31.38 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 4:16:54 | 35.11 | 31.71 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:16:54 | 35.43 | 32.03 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:16:54 | 35.76 | 32.36 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 4:16:55 | 36.09 | 32.69 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 4:16:55 | 36.42 | 33.02 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 4:16:55 | 36.75 | 33.35 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 4:16:56 | 37.07 | 33.67 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 4:16:56 | 37.40 | 34.00 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 4:16:56 | 37.73 | 34.33 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 4:16:57 | 38.06 | 34.66 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:16:57 | 38.39 | 34.99 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:16:57 | 38.71 | 35.31 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:16:58 | 39.04 | 35.64 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 4:16:58 | 39.37 | 35.97 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 4:16:58 | 39.70 | 36.30 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 4:16:59 | 40.03 | 36.63 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 4:16:59 | 40.35 | 36.95 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:17:00 | 40.68 | 37.28 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:17:00 | 41.01 | 37.61 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:17:00 | 41.34 | 37.94 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:17:01 | 41.67 | 38.27 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 4:17:01 | 41.99 | 38.59 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 4:17:01 | 42.32 | 38.92 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:17:02 | 42.65 | 39.25 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 4:17:02 | 42.98 | 39.58 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 4:17:02 | 43.31 | 39.91 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 4:17:03 | 43.64 | 40.24 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:17:03 | 43.96 | 40.56 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:17:03 | 44.29 | 40.89 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 4:17:04 | 44.62 | 41.22 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 4:17:04 | 44.95 | 41.55 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 4:17:04 | 45.28 | 41.88 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 4:17:05 | 45.60 | 42.20 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 4:17:05 | 45.93 | 42.53 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 4:17:05 | 46.26 | 42.86 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 4:17:25 | 46.59 | 43.19 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:17:26 | 46.92 | 43.52 | 176 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 4:17:26 | 47.24 | 43.84 | 290 | 1.14 | 0.29 | 15.9 |
| 5/3/2015 4:17:27 | 47.57 | 44.17 | 414 | 1.14 | 0.29 | 22.6 |
| 5/3/2015 4:17:27 | 47.90 | 44.50 | 537 | 1.14 | 0.29 | 29.4 |
| 5/3/2015 4:17:38 | 48.23 | 44.83 | 96 | 1.14 | 0.29 | 5.2 |
| 5/3/2015 4:17:46 | 48.56 | 45.16 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:17:52 | 48.88 | 45.48 | 9 | 1.14 | 0.29 | 0.5 |
| 5/3/2015 4:17:56 | 49.21 | 45.81 | 134 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 4:18:11 | 49.54 | 46.14 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 4:18:13 | 49.87 | 46.47 | 189 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 4:18:13 | 50.20 | 46.80 | 237 | 1.14 | 0.29 | 13.0 |
| 5/3/2015 4:18:14 | 50.53 | 47.13 | 347 | 1.14 | 0.29 | 18.9 |
| 5/3/2015 4:18:16 | 50.85 | 47.45 | 329 | 1.14 | 0.29 | 18.0 |
| 5/3/2015 4:18:36 | 51.18 | 47.78 | 65 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 4:18:37 | 51.51 | 48.11 | 176 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 4:18:39 | 51.84 | 48.44 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 4:19:29 | 52.17 | 48.77 | 14 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 4:21:00 | 52.49 | 49.09 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:21:30 | 52.82 | 49.42 | 14 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 4:22:36 | 53.15 | 49.75 | 9 | 1.14 | 0.29 | 0.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:22:37 | 53.28 | 49.88 | 58 | 1.14 | 0.29 | 3.2 |

## P24 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 4:15:46

**End Date:**
5/3/2015 4:25:23

**Operator Note:**
'3.4 3.6 c Auto Complete'

**Northing:**
349,518.40

**Easting:**
224,890.60

**Tide (feet):**
3.40



## Hole: P240 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:35:50 | 31.82 | 30.22 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:35:50 | 32.15 | 30.55 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:35:51 | 32.48 | 30.88 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:35:51 | 32.81 | 31.21 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 17:35:51 | 33.14 | 31.54 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:35:52 | 33.46 | 31.86 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:35:52 | 33.79 | 32.19 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:35:52 | 34.12 | 32.52 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:53 | 34.45 | 32.85 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:53 | 34.78 | 33.18 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:53 | 35.11 | 33.51 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:35:54 | 35.43 | 33.83 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:35:54 | 35.76 | 34.16 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:35:55 | 36.09 | 34.49 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:35:55 | 36.42 | 34.82 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:35:55 | 36.75 | 35.15 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:56 | 37.07 | 35.47 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:56 | 37.40 | 35.80 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:35:56 | 37.73 | 36.13 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:57 | 38.06 | 36.46 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:35:57 | 38.39 | 36.79 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:35:57 | 38.71 | 37.11 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:35:58 | 39.04 | 37.44 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:35:58 | 39.37 | 37.77 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 17:35:58 | 39.70 | 38.10 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:35:59 | 40.03 | 38.43 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:35:59 | 40.35 | 38.75 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 17:35:59 | 40.68 | 39.08 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 17:35:59 | 41.01 | 39.41 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:36:00 | 41.34 | 39.74 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:36:00 | 41.67 | 40.07 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:36:00 | 41.99 | 40.39 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 17:36:01 | 42.32 | 40.72 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 17:36:01 | 42.65 | 41.05 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 17:36:01 | 42.98 | 41.38 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:36:02 | 43.31 | 41.71 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 17:36:02 | 43.64 | 42.04 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 17:36:02 | 43.96 | 42.36 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 17:36:03 | 44.29 | 42.69 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 17:36:03 | 44.62 | 43.02 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:36:03 | 44.95 | 43.35 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:36:04 | 45.28 | 43.68 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:36:04 | 45.60 | 44.00 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:36:04 | 45.93 | 44.33 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:36:05 | 46.26 | 44.66 | 1,086 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 17:36:05 | 46.59 | 44.99 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 17:36:05 | 46.92 | 45.32 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 17:36:06 | 47.24 | 45.64 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 17:36:06 | 47.57 | 45.97 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:36:07 | 47.90 | 46.30 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 17:36:07 | 48.23 | 46.63 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 17:36:07 | 48.56 | 46.96 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 17:36:07 | 48.88 | 47.28 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 17:36:08 | 49.21 | 47.61 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:36:08 | 49.54 | 47.94 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:36:08 | 49.87 | 48.27 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 17:36:09 | 50.20 | 48.60 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:36:09 | 50.53 | 48.93 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 17:36:10 | 50.85 | 49.25 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 17:36:33 | 51.18 | 49.58 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 17:36:34 | 51.51 | 49.91 | 140 | 1.14 | 0.29 | 7.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:36:34 | 51.84 | 50.24 | 140 | 1.14 | 0.29 | 7.7 |
| 5/2/2015 | 17:36:35 | 52.17 | 50.57 | 302 | 1.14 | 0.29 | 16.5 |
| 5/2/2015 | 17:36:35 | 52.49 | 50.89 | 444 | 1.14 | 0.29 | 24.3 |
| 5/2/2015 | 17:36:36 | 52.82 | 51.22 | 605 | 1.14 | 0.29 | 33.1 |
| 5/2/2015 | 17:36:36 | 53.15 | 51.55 | 605 | 1.14 | 0.29 | 33.1 |
| 5/2/2015 | 17:36:36 | 53.48 | 51.88 | 761 | 1.14 | 0.29 | 41.6 |
| 5/2/2015 | 17:36:37 | 53.81 | 52.21 | 722 | 1.14 | 0.29 | 39.5 |
| 5/2/2015 | 17:36:38 | 54.13 | 52.53 | 669 | 1.14 | 0.29 | 36.6 |
| 5/2/2015 | 17:36:39 | 54.46 | 52.86 | 503 | 1.14 | 0.29 | 27.5 |
| 5/2/2015 | 17:36:40 | 54.79 | 53.19 | 282 | 1.14 | 0.29 | 15.4 |
| 5/2/2015 | 17:36:42 | 55.12 | 53.52 | 261 | 1.14 | 0.29 | 14.3 |
| 5/2/2015 | 17:36:45 | 55.45 | 53.85 | 94 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 | 17:36:45 | 55.77 | 54.17 | 230 | 1.14 | 0.29 | 12.6 |
| 5/2/2015 | 17:36:46 | 56.10 | 54.50 | 230 | 1.14 | 0.29 | 12.6 |
| 5/2/2015 | 17:36:50 | 56.43 | 54.83 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 | 17:36:51 | 56.76 | 55.16 | 115 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 | 17:36:51 | 57.09 | 55.49 | 276 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 | 17:36:52 | 57.41 | 55.81 | 276 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 | 17:36:52 | 57.74 | 56.14 | 446 | 1.14 | 0.29 | 24.4 |
| 5/2/2015 | 17:36:52 | 57.84 | 56.24 | 446 | 1.14 | 0.29 | 24.4 |

## P240 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:34:43

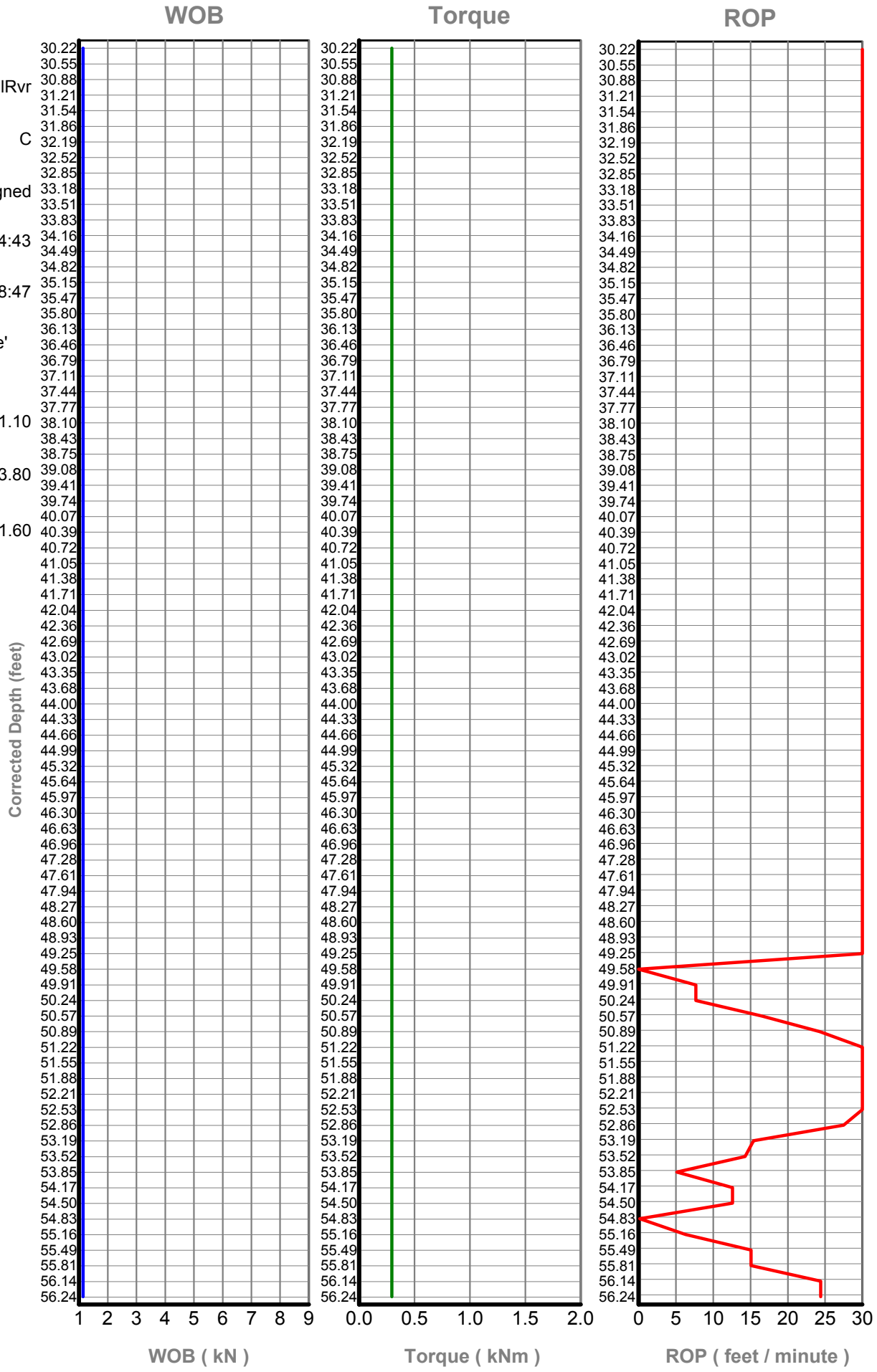
**End Date:**
5/2/2015 17:38:47

**Operator Note:**
'1.6 1.8 c Auto Complete'

**Northing:**
349,361.10

**Easting:**
225,783.80

**Tide (feet):**
1.60



## Hole: P241 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:21:09 | 30.84 | 30.24 | 1,365 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:21:09 | 31.17 | 30.57 | 1,365 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 20:21:09 | 31.50 | 30.90 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/3/2015 20:21:10 | 31.82 | 31.22 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/3/2015 20:21:10 | 32.15 | 31.55 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:21:10 | 32.48 | 31.88 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:21:10 | 32.81 | 32.21 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:21:11 | 33.14 | 32.54 | 1,328 | 0.54 | 0.17 | 72.6 |
| 5/3/2015 20:21:11 | 33.46 | 32.86 | 1,301 | 0.54 | 0.17 | 71.2 |
| 5/3/2015 20:21:11 | 33.79 | 33.19 | 1,283 | 0.54 | 0.17 | 70.2 |
| 5/3/2015 20:21:12 | 34.12 | 33.52 | 1,283 | 0.54 | 0.17 | 70.2 |
| 5/3/2015 20:21:12 | 34.45 | 33.85 | 1,275 | 0.54 | 0.17 | 69.7 |
| 5/3/2015 20:21:12 | 34.78 | 34.18 | 1,275 | 0.54 | 0.17 | 69.7 |
| 5/3/2015 20:21:12 | 35.11 | 34.51 | 1,305 | 0.54 | 0.17 | 71.3 |
| 5/3/2015 20:21:13 | 35.43 | 34.83 | 1,305 | 0.54 | 0.17 | 71.3 |
| 5/3/2015 20:21:13 | 35.76 | 35.16 | 1,319 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 20:21:13 | 36.09 | 35.49 | 1,319 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 20:21:13 | 36.42 | 35.82 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/3/2015 20:21:14 | 36.75 | 36.15 | 1,335 | 0.54 | 0.17 | 73.0 |
| 5/3/2015 20:21:14 | 37.07 | 36.47 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:14 | 37.40 | 36.80 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:14 | 37.73 | 37.13 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:15 | 38.06 | 37.46 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:15 | 38.39 | 37.79 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:16 | 38.71 | 38.11 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:16 | 39.04 | 38.44 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:16 | 39.37 | 38.77 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:16 | 39.70 | 39.10 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 20:21:17 | 40.03 | 39.43 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 20:21:17 | 40.35 | 39.75 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:21:17 | 40.68 | 40.08 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:21:17 | 41.01 | 40.41 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:18 | 41.34 | 40.74 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:18 | 41.67 | 41.07 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:18 | 41.99 | 41.39 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:18 | 42.32 | 41.72 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:19 | 42.65 | 42.05 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:19 | 42.98 | 42.38 | 1,347 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 20:21:19 | 43.31 | 42.71 | 1,347 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 20:21:19 | 43.64 | 43.04 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:20 | 43.96 | 43.36 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:20 | 44.29 | 43.69 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:20 | 44.62 | 44.02 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 20:21:20 | 44.95 | 44.35 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:21 | 45.28 | 44.68 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:21 | 45.60 | 45.00 | 1,354 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:21:21 | 45.93 | 45.33 | 1,354 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:21:21 | 46.26 | 45.66 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:22 | 46.59 | 45.99 | 1,359 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:22 | 46.92 | 46.32 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 20:21:22 | 47.24 | 46.64 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 20:21:22 | 47.57 | 46.97 | 1,366 | 0.54 | 0.17 | 74.7 |
| 5/3/2015 20:21:23 | 47.90 | 47.30 | 1,366 | 0.54 | 0.17 | 74.7 |
| 5/3/2015 20:21:23 | 48.23 | 47.63 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:23 | 48.56 | 47.96 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:23 | 48.88 | 48.28 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:24 | 49.21 | 48.61 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 20:21:24 | 49.54 | 48.94 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:24 | 49.87 | 49.27 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 20:21:24 | 50.20 | 49.60 | 1,347 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 20:21:25 | 50.53 | 49.93 | 1,355 | 0.54 | 0.17 | 74.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 20:21:25 | 50.85 | 50.25 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:25 | 51.18 | 50.58 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:26 | 51.51 | 50.91 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 20:21:26 | 51.84 | 51.24 | 1,352 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 20:21:27 | 52.17 | 51.57 | 1,228 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 20:21:40 | 52.49 | 51.89 | 103 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 20:21:41 | 52.82 | 52.22 | 229 | 0.54 | 0.17 | 12.5 |
| 5/3/2015 20:21:47 | 53.15 | 52.55 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 20:21:47 | 53.48 | 52.88 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 20:21:47 | 53.81 | 53.21 | 271 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 20:21:48 | 54.13 | 53.53 | 271 | 0.54 | 0.17 | 14.8 |
| 5/3/2015 20:21:48 | 54.46 | 53.86 | 518 | 0.54 | 0.17 | 28.3 |
| 5/3/2015 20:21:48 | 54.79 | 54.19 | 518 | 0.54 | 0.17 | 28.3 |
| 5/3/2015 20:21:48 | 55.12 | 54.52 | 775 | 0.54 | 0.17 | 42.4 |
| 5/3/2015 20:21:49 | 55.45 | 54.85 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 20:21:49 | 55.77 | 55.17 | 1,084 | 0.54 | 0.17 | 59.3 |
| 5/3/2015 20:21:51 | 56.10 | 55.50 | 435 | 0.54 | 0.17 | 23.8 |
| 5/3/2015 20:21:52 | 56.43 | 55.83 | 358 | 0.54 | 0.17 | 19.6 |
| 5/3/2015 20:21:52 | 56.76 | 56.16 | 361 | 0.54 | 0.17 | 19.7 |
| 5/3/2015 20:21:53 | 57.09 | 56.49 | 418 | 0.54 | 0.17 | 22.9 |
| 5/3/2015 20:21:54 | 57.41 | 56.81 | 628 | 0.54 | 0.17 | 34.3 |
| 5/3/2015 20:21:55 | 57.74 | 57.14 | 520 | 0.54 | 0.17 | 28.4 |
| 5/3/2015 20:21:55 | 58.07 | 57.47 | 512 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 20:21:56 | 58.40 | 57.80 | 512 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 20:21:56 | 58.73 | 58.13 | 573 | 0.54 | 0.17 | 31.3 |
| 5/3/2015 20:21:56 | 59.06 | 58.46 | 647 | 0.54 | 0.17 | 35.4 |
| 5/3/2015 20:21:57 | 59.38 | 58.78 | 647 | 0.54 | 0.17 | 35.4 |
| 5/3/2015 20:21:57 | 59.71 | 59.11 | 786 | 0.54 | 0.17 | 43.0 |
| 5/3/2015 20:21:57 | 59.93 | 59.33 | 786 | 0.54 | 0.17 | 43.0 |

## P241 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:12:43

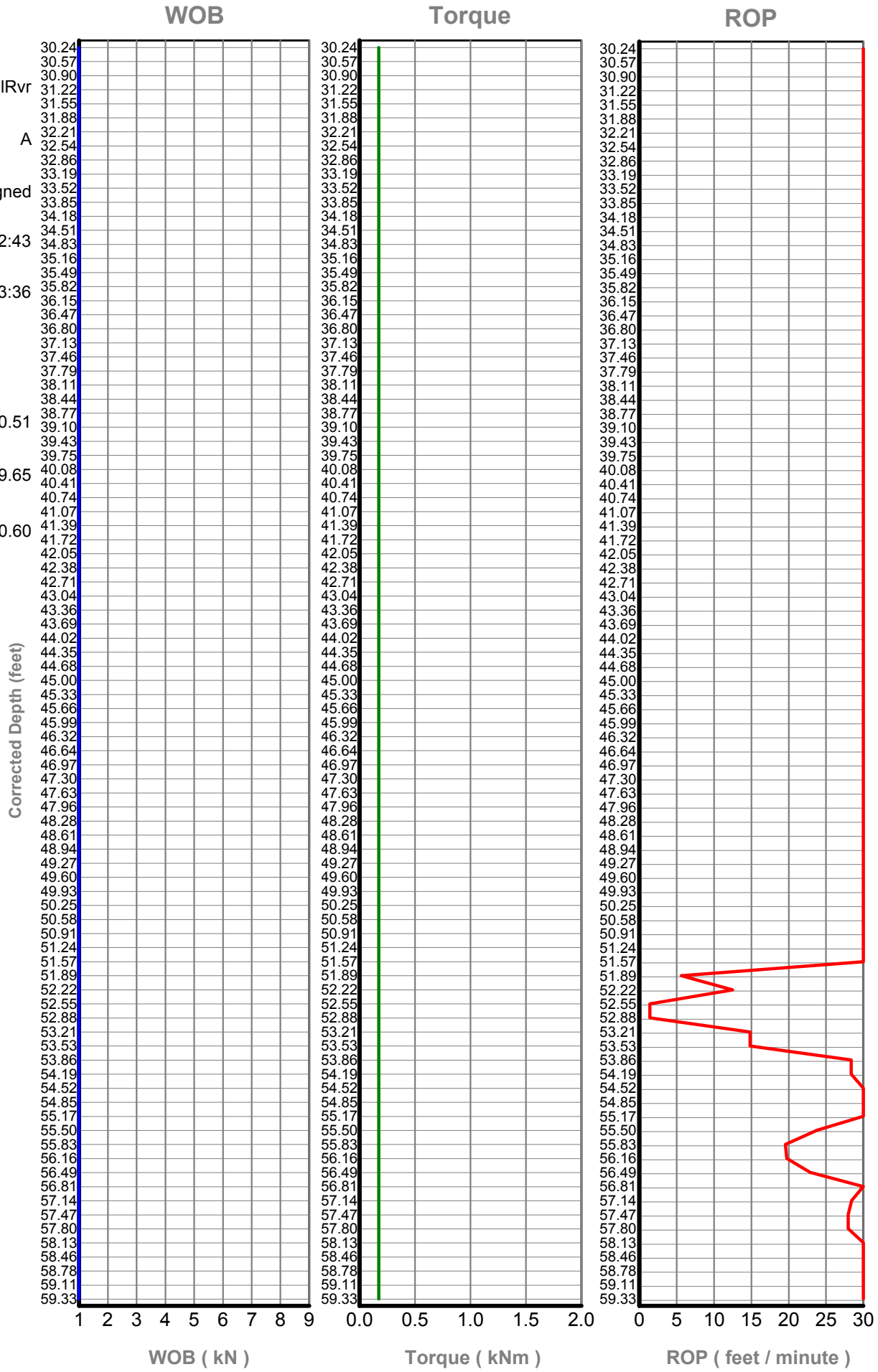
**End Date:**
5/3/2015 20:23:36

**Operator Note:**
'0.6 .6 a Auto Complete'

**Northing:**
348,390.51

**Easting:**
224,369.65

**Tide (feet):**
0.60



## Hole: P242 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:22:12 | 30.84 | 30.04 | 1,217 | 0.31 | 0.40 | 66.5 |
| 5/3/2015 20:22:12 | 31.17 | 30.37 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/3/2015 20:22:13 | 31.50 | 30.70 | 1,214 | 0.31 | 0.40 | 66.4 |
| 5/3/2015 20:22:13 | 31.82 | 31.02 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 20:22:13 | 32.15 | 31.35 | 1,207 | 0.31 | 0.41 | 66.0 |
| 5/3/2015 20:22:14 | 32.48 | 31.68 | 1,207 | 0.31 | 0.41 | 66.0 |
| 5/3/2015 20:22:14 | 32.81 | 32.01 | 1,207 | 0.31 | 0.40 | 66.0 |
| 5/3/2015 20:22:15 | 33.14 | 32.34 | 1,207 | 0.31 | 0.40 | 66.0 |
| 5/3/2015 20:22:15 | 33.46 | 32.66 | 1,184 | 0.31 | 0.39 | 64.7 |
| 5/3/2015 20:22:15 | 33.79 | 32.99 | 1,184 | 0.31 | 0.39 | 64.7 |
| 5/3/2015 20:22:15 | 34.12 | 33.32 | 1,184 | 0.27 | 0.39 | 64.7 |
| 5/3/2015 20:22:16 | 34.45 | 33.65 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 20:22:16 | 34.78 | 33.98 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 20:22:16 | 35.11 | 34.31 | 1,213 | 0.31 | 0.40 | 66.3 |
| 5/3/2015 20:22:17 | 35.43 | 34.63 | 1,213 | 0.31 | 0.40 | 66.3 |
| 5/3/2015 20:22:17 | 35.76 | 34.96 | 1,208 | 0.32 | 0.40 | 66.0 |
| 5/3/2015 20:22:17 | 36.09 | 35.29 | 1,208 | 0.32 | 0.40 | 66.0 |
| 5/3/2015 20:22:17 | 36.42 | 35.62 | 1,188 | 0.31 | 0.40 | 65.0 |
| 5/3/2015 20:22:18 | 36.75 | 35.95 | 1,188 | 0.31 | 0.40 | 65.0 |
| 5/3/2015 20:22:18 | 37.07 | 36.27 | 1,222 | 0.32 | 0.40 | 66.8 |
| 5/3/2015 20:22:18 | 37.40 | 36.60 | 1,213 | 0.32 | 0.39 | 66.3 |
| 5/3/2015 20:22:19 | 37.73 | 36.93 | 1,213 | 0.32 | 0.39 | 66.3 |
| 5/3/2015 20:22:19 | 38.06 | 37.26 | 1,213 | 0.31 | 0.40 | 66.3 |
| 5/3/2015 20:22:19 | 38.39 | 37.59 | 1,213 | 0.31 | 0.40 | 66.3 |
| 5/3/2015 20:22:19 | 38.71 | 37.91 | 1,216 | 0.32 | 0.39 | 66.5 |
| 5/3/2015 20:22:20 | 39.04 | 38.24 | 1,216 | 0.32 | 0.39 | 66.5 |
| 5/3/2015 20:22:20 | 39.37 | 38.57 | 1,238 | 0.31 | 0.40 | 67.7 |
| 5/3/2015 20:22:20 | 39.70 | 38.90 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/3/2015 20:22:21 | 40.03 | 39.23 | 1,227 | 0.31 | 0.39 | 67.1 |
| 5/3/2015 20:22:21 | 40.35 | 39.55 | 1,223 | 0.31 | 0.41 | 66.9 |
| 5/3/2015 20:22:21 | 40.68 | 39.88 | 1,223 | 0.31 | 0.41 | 66.9 |
| 5/3/2015 20:22:21 | 41.01 | 40.21 | 1,215 | 0.31 | 0.40 | 66.5 |
| 5/3/2015 20:22:22 | 41.34 | 40.54 | 1,215 | 0.31 | 0.40 | 66.5 |
| 5/3/2015 20:22:22 | 41.67 | 40.87 | 1,226 | 0.32 | 0.39 | 67.0 |
| 5/3/2015 20:22:22 | 41.99 | 41.19 | 1,226 | 0.32 | 0.39 | 67.0 |
| 5/3/2015 20:22:22 | 42.32 | 41.52 | 1,227 | 0.31 | 0.38 | 67.1 |
| 5/3/2015 20:22:23 | 42.65 | 41.85 | 1,194 | 0.31 | 0.39 | 65.3 |
| 5/3/2015 20:22:23 | 42.98 | 42.18 | 1,194 | 0.31 | 0.39 | 65.3 |
| 5/3/2015 20:22:23 | 43.31 | 42.51 | 1,194 | 0.32 | 0.40 | 65.3 |
| 5/3/2015 20:22:24 | 43.64 | 42.84 | 1,194 | 0.32 | 0.40 | 65.3 |
| 5/3/2015 20:22:24 | 43.96 | 43.16 | 1,210 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 20:22:24 | 44.29 | 43.49 | 1,210 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 20:22:24 | 44.62 | 43.82 | 1,217 | 0.31 | 0.40 | 66.6 |
| 5/3/2015 20:22:25 | 44.95 | 44.15 | 1,209 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 20:22:26 | 45.28 | 44.48 | 1,209 | 0.31 | 0.39 | 66.1 |
| 5/3/2015 20:22:26 | 45.60 | 44.80 | 1,202 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 20:22:26 | 45.93 | 45.13 | 1,202 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 20:22:26 | 46.26 | 45.46 | 1,241 | 0.31 | 0.39 | 67.9 |
| 5/3/2015 20:22:27 | 46.59 | 45.79 | 1,241 | 0.31 | 0.39 | 67.9 |
| 5/3/2015 20:22:27 | 46.92 | 46.12 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 20:22:27 | 47.24 | 46.44 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 20:22:27 | 47.57 | 46.77 | 1,226 | 0.32 | 0.38 | 67.0 |
| 5/3/2015 20:22:28 | 47.90 | 47.10 | 1,223 | 0.31 | 0.40 | 66.9 |
| 5/3/2015 20:22:28 | 48.23 | 47.43 | 1,223 | 0.31 | 0.40 | 66.9 |
| 5/3/2015 20:22:28 | 48.56 | 47.76 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 20:22:29 | 48.88 | 48.08 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 20:22:29 | 49.21 | 48.41 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 20:22:29 | 49.54 | 48.74 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 20:22:29 | 49.87 | 49.07 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 20:22:30 | 50.20 | 49.40 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 20:22:30 | 50.53 | 49.73 | 1,231 | 0.32 | 0.40 | 67.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:22:30 | 50.85 | 50.05 | 1,237 | 0.32 | 0.39 | 67.7 |
| 5/3/2015 | 20:22:31 | 51.18 | 50.38 | 1,237 | 0.32 | 0.39 | 67.7 |
| 5/3/2015 | 20:22:31 | 51.51 | 50.71 | 1,242 | 0.31 | 0.40 | 67.9 |
| 5/3/2015 | 20:22:31 | 51.84 | 51.04 | 1,242 | 0.31 | 0.40 | 67.9 |
| 5/3/2015 | 20:22:31 | 52.17 | 51.37 | 1,231 | 0.29 | 0.47 | 67.3 |
| 5/3/2015 | 20:22:40 | 52.49 | 51.69 | 37 | 4.05 | 0.46 | 2.0 |
| 5/3/2015 | 20:22:40 | 52.82 | 52.02 | 140 | 2.59 | 0.41 | 7.7 |
| 5/3/2015 | 20:22:41 | 53.15 | 52.35 | 331 | 2.66 | 0.41 | 18.1 |
| 5/3/2015 | 20:22:41 | 53.48 | 52.68 | 331 | 2.66 | 0.41 | 18.1 |
| 5/3/2015 | 20:22:41 | 53.81 | 53.01 | 547 | 3.75 | 0.44 | 29.9 |
| 5/3/2015 | 20:22:46 | 54.13 | 53.33 | 0 | 6.33 | 0.49 | 0.0 |
| 5/3/2015 | 20:22:49 | 54.46 | 53.66 | 87 | 3.75 | 0.47 | 4.8 |
| 5/3/2015 | 20:22:50 | 54.79 | 53.99 | 200 | 3.90 | 0.45 | 11.0 |
| 5/3/2015 | 20:22:50 | 55.12 | 54.32 | 309 | 6.48 | 0.47 | 16.9 |
| 5/3/2015 | 20:22:51 | 55.45 | 54.65 | 382 | 2.66 | 0.44 | 20.9 |
| 5/3/2015 | 20:22:52 | 55.77 | 54.97 | 505 | 3.45 | 0.49 | 27.6 |
| 5/3/2015 | 20:22:55 | 56.04 | 55.24 | 78 | 5.81 | 0.48 | 4.3 |

## P242 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:20:39

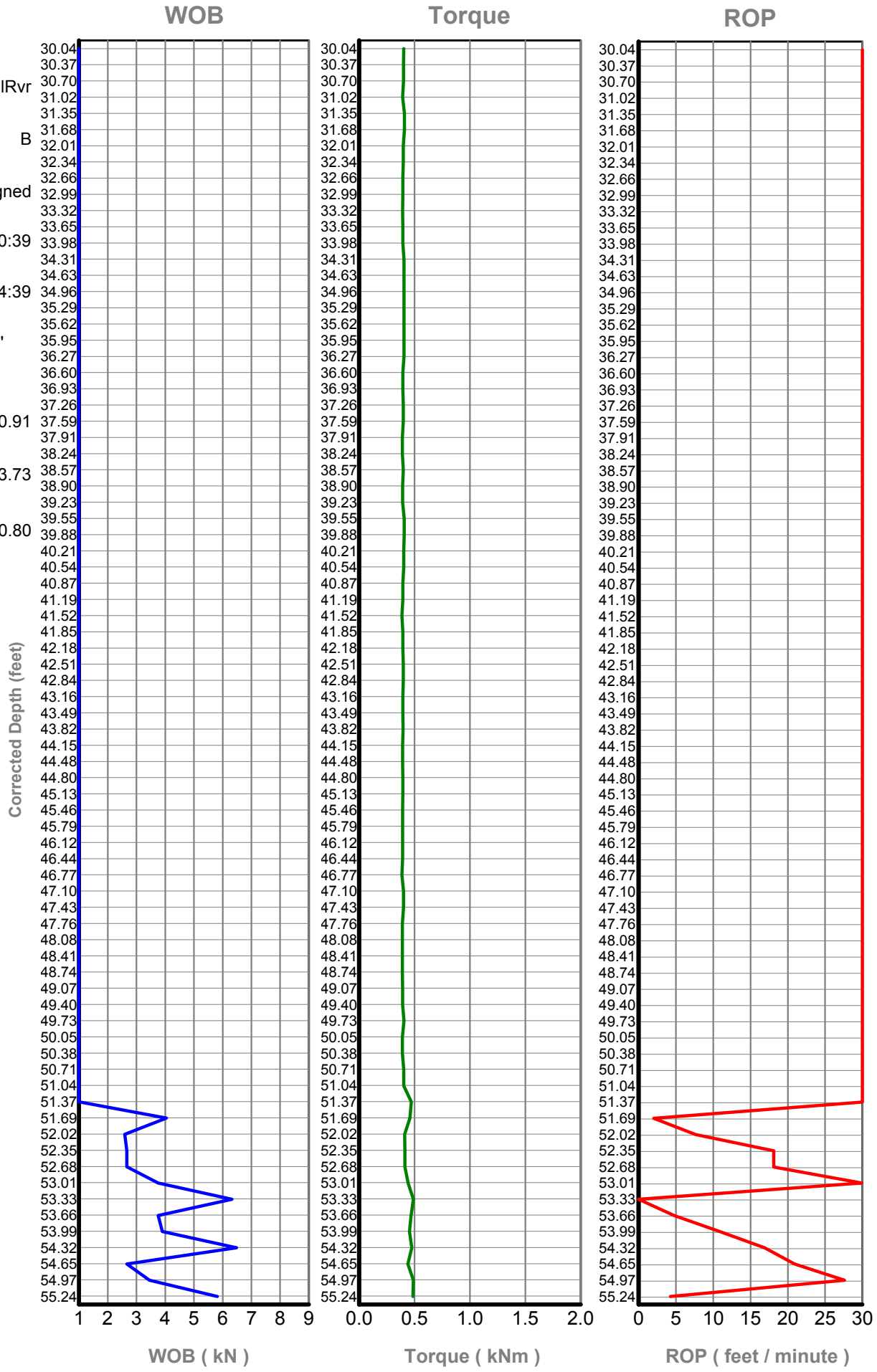
**End Date:**
5/3/2015 20:24:39

**Operator Note:**
'0.8 0.6b Auto Complete'

**Northing:**
348,430.91

**Easting:**
224,433.73

**Tide (feet):**
0.80



## Hole: P243 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 20:20:35 | 30.84 | 30.04 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:35 | 31.17 | 30.37 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:36 | 31.50 | 30.70 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:36 | 31.82 | 31.02 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 20:20:36 | 32.15 | 31.35 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:37 | 32.48 | 31.68 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:37 | 32.81 | 32.01 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:37 | 33.14 | 32.34 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 20:20:38 | 33.46 | 32.66 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 20:20:38 | 33.79 | 32.99 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:38 | 34.12 | 33.32 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:39 | 34.45 | 33.65 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:39 | 34.78 | 33.98 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:39 | 35.11 | 34.31 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:40 | 35.43 | 34.63 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:40 | 35.76 | 34.96 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:40 | 36.09 | 35.29 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 20:20:41 | 36.42 | 35.62 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 20:20:41 | 36.75 | 35.95 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:41 | 37.07 | 36.27 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:20:42 | 37.40 | 36.60 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 20:20:42 | 37.73 | 36.93 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:42 | 38.06 | 37.26 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:43 | 38.39 | 37.59 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:43 | 38.71 | 37.91 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:43 | 39.04 | 38.24 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:44 | 39.37 | 38.57 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:44 | 39.70 | 38.90 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:44 | 40.03 | 39.23 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:45 | 40.35 | 39.55 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:45 | 40.68 | 39.88 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:45 | 41.01 | 40.21 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:45 | 41.34 | 40.54 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:46 | 41.67 | 40.87 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:47 | 41.99 | 41.19 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:47 | 42.32 | 41.52 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 20:20:47 | 42.65 | 41.85 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:48 | 42.98 | 42.18 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 20:20:48 | 43.31 | 42.51 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:48 | 43.64 | 42.84 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 20:20:49 | 43.96 | 43.16 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 20:20:49 | 44.29 | 43.49 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 20:20:49 | 44.62 | 43.82 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 20:20:50 | 44.95 | 44.15 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 20:20:50 | 45.28 | 44.48 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:50 | 45.60 | 44.80 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 20:20:51 | 45.93 | 45.13 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 20:20:51 | 46.26 | 45.46 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:51 | 46.59 | 45.79 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:52 | 46.92 | 46.12 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 20:20:52 | 47.24 | 46.44 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 20:20:52 | 47.57 | 46.77 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 20:20:53 | 47.90 | 47.10 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 20:20:53 | 48.23 | 47.43 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 20:20:53 | 48.56 | 47.76 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 20:20:54 | 48.88 | 48.08 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 20:20:54 | 49.21 | 48.41 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 20:20:54 | 49.54 | 48.74 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 20:20:55 | 49.87 | 49.07 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 20:20:55 | 50.20 | 49.40 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 20:20:55 | 50.53 | 49.73 | 1,041 | 1.14 | 0.29 | 56.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 20:20:56 | 50.85 | 50.05 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 | 20:20:56 | 51.18 | 50.38 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 | 20:20:56 | 51.51 | 50.71 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 | 20:20:57 | 51.84 | 51.04 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 | 20:21:20 | 52.17 | 51.37 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 | 20:21:31 | 52.49 | 51.69 | 21 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 20:21:31 | 52.82 | 52.02 | 186 | 1.14 | 0.29 | 10.2 |
| 5/3/2015 | 20:21:32 | 53.15 | 52.35 | 391 | 1.14 | 0.29 | 21.4 |
| 5/3/2015 | 20:21:33 | 53.48 | 52.68 | 476 | 1.14 | 0.29 | 26.0 |
| 5/3/2015 | 20:21:34 | 53.81 | 53.01 | 587 | 1.14 | 0.29 | 32.1 |
| 5/3/2015 | 20:21:34 | 54.13 | 53.33 | 571 | 1.14 | 0.29 | 31.2 |
| 5/3/2015 | 20:21:35 | 54.46 | 53.66 | 573 | 1.14 | 0.29 | 31.3 |
| 5/3/2015 | 20:21:38 | 54.79 | 53.99 | 24 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 20:21:39 | 55.12 | 54.32 | 125 | 1.14 | 0.29 | 6.9 |
| 5/3/2015 | 20:21:40 | 55.45 | 54.65 | 252 | 1.14 | 0.29 | 13.8 |
| 5/3/2015 | 20:21:40 | 55.77 | 54.97 | 401 | 1.14 | 0.29 | 21.9 |
| 5/3/2015 | 20:21:40 | 56.05 | 55.25 | 401 | 1.14 | 0.29 | 21.9 |

## P243 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 20:19:28

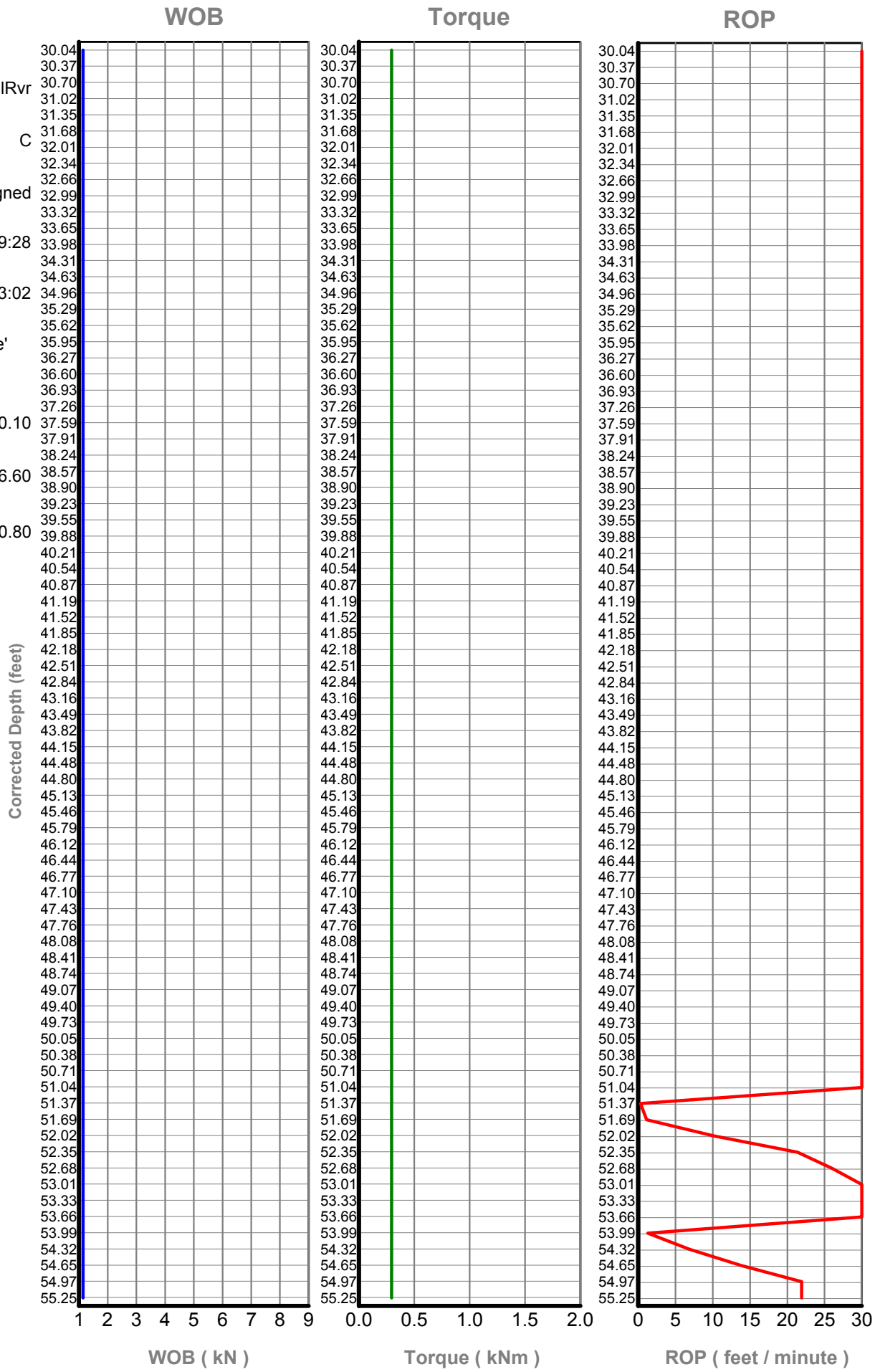
**End Date:**
5/3/2015 20:23:02

**Operator Note:**
'0.8 0.6 c Auto Complete'

**Northing:**
348,470.10

**Easting:**
224,496.60

**Tide (feet):**
0.80



## Hole: P244 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 18:07:44 | 31.50 | 30.20 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 18:07:45 | 31.82 | 30.52 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 18:07:45 | 32.15 | 30.85 | 926 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 18:07:45 | 32.48 | 31.18 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:07:46 | 32.81 | 31.51 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 18:07:46 | 33.14 | 31.84 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 18:07:46 | 33.46 | 32.16 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 18:07:47 | 33.79 | 32.49 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 18:07:47 | 34.12 | 32.82 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 18:07:47 | 34.45 | 33.15 | 958 | 0.54 | 0.17 | 52.4 |
| 5/3/2015 18:07:48 | 34.78 | 33.48 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 18:07:49 | 35.11 | 33.81 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 18:07:49 | 35.43 | 34.13 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 18:07:49 | 35.76 | 34.46 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 18:07:50 | 36.09 | 34.79 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:50 | 36.42 | 35.12 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:50 | 36.75 | 35.45 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:51 | 37.07 | 35.77 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:51 | 37.40 | 36.10 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:52 | 37.73 | 36.43 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:52 | 38.06 | 36.76 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:52 | 38.39 | 37.09 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:53 | 38.71 | 37.41 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:53 | 39.04 | 37.74 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:53 | 39.37 | 38.07 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:07:54 | 39.70 | 38.40 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 18:07:54 | 40.03 | 38.73 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 18:07:54 | 40.35 | 39.05 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 18:07:55 | 40.68 | 39.38 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 18:07:55 | 41.01 | 39.71 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:56 | 41.34 | 40.04 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:56 | 41.67 | 40.37 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:56 | 41.99 | 40.69 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 18:07:57 | 42.32 | 41.02 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 18:07:57 | 42.65 | 41.35 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 18:07:57 | 42.98 | 41.68 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 18:07:58 | 43.31 | 42.01 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:07:58 | 43.64 | 42.34 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:07:59 | 43.96 | 42.66 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:07:59 | 44.29 | 42.99 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:07:59 | 44.62 | 43.32 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 18:08:00 | 44.95 | 43.65 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 18:08:00 | 45.28 | 43.98 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:08:01 | 45.60 | 44.30 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:08:01 | 45.93 | 44.63 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:08:02 | 46.26 | 44.96 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:08:02 | 46.59 | 45.29 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:02 | 46.92 | 45.62 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:03 | 47.24 | 45.94 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:03 | 47.57 | 46.27 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:03 | 47.90 | 46.60 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:04 | 48.23 | 46.93 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:04 | 48.56 | 47.26 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:04 | 48.88 | 47.58 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:05 | 49.21 | 47.91 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:05 | 49.54 | 48.24 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:06 | 49.87 | 48.57 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 18:08:06 | 50.20 | 48.90 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 18:08:06 | 50.53 | 49.23 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 18:08:07 | 50.85 | 49.55 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 18:08:07 | 51.18 | 49.88 | 934 | 0.54 | 0.17 | 51.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 18:08:07 | 51.51 | 50.21 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 | 18:08:08 | 51.84 | 50.54 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 | 18:08:08 | 52.17 | 50.87 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 | 18:08:09 | 52.49 | 51.19 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 | 18:08:09 | 52.82 | 51.52 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 | 18:08:09 | 53.15 | 51.85 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 | 18:08:10 | 53.48 | 52.18 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 | 18:08:29 | 53.81 | 52.51 | 75 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 18:08:29 | 54.13 | 52.83 | 183 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 | 18:08:30 | 54.46 | 53.16 | 278 | 0.54 | 0.17 | 15.2 |
| 5/3/2015 | 18:08:31 | 54.79 | 53.49 | 381 | 0.54 | 0.17 | 20.8 |
| 5/3/2015 | 18:08:32 | 55.12 | 53.82 | 332 | 0.54 | 0.17 | 18.2 |
| 5/3/2015 | 18:08:33 | 55.45 | 54.15 | 351 | 0.54 | 0.17 | 19.2 |
| 5/3/2015 | 18:08:34 | 55.77 | 54.47 | 407 | 0.54 | 0.17 | 22.3 |
| 5/3/2015 | 18:08:36 | 56.10 | 54.80 | 274 | 0.54 | 0.17 | 15.0 |
| 5/3/2015 | 18:08:40 | 56.43 | 55.13 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 18:08:42 | 56.49 | 55.19 | 55 | 0.54 | 0.17 | 3.0 |

## P244 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 18:06:13

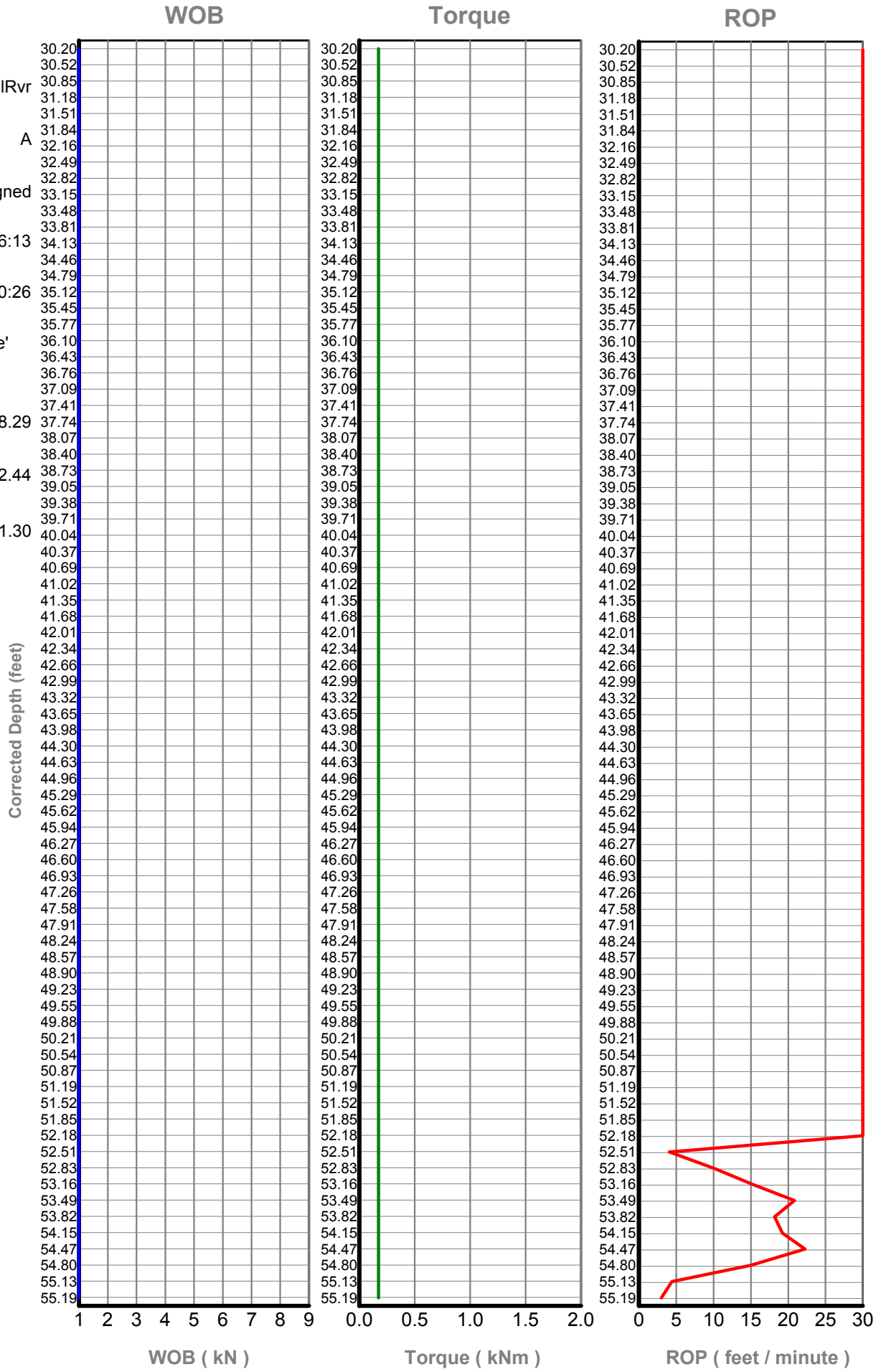
**End Date:**
5/3/2015 18:10:26

**Operator Note:**
'1.3 1.5 a Auto Complete'

**Northing:**
348,508.29

**Easting:**
224,562.44

**Tide (feet):**
1.30



## Hole: P245 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 18:08:19 | 31.50 | 30.20 | 1,321 | 0.28 | 0.36 | 72.3 |
| 5/3/2015 18:08:19 | 31.82 | 30.52 | 1,309 | 0.25 | 0.38 | 71.6 |
| 5/3/2015 18:08:20 | 32.15 | 30.85 | 1,309 | 0.25 | 0.38 | 71.6 |
| 5/3/2015 18:08:20 | 32.48 | 31.18 | 1,339 | 0.25 | 0.37 | 73.2 |
| 5/3/2015 18:08:20 | 32.81 | 31.51 | 1,339 | 0.25 | 0.37 | 73.2 |
| 5/3/2015 18:08:20 | 33.14 | 31.84 | 1,331 | 0.25 | 0.38 | 72.8 |
| 5/3/2015 18:08:21 | 33.46 | 32.16 | 1,331 | 0.25 | 0.38 | 72.8 |
| 5/3/2015 18:08:21 | 33.79 | 32.49 | 1,341 | 0.25 | 0.36 | 73.4 |
| 5/3/2015 18:08:22 | 34.12 | 32.82 | 1,341 | 0.25 | 0.36 | 73.4 |
| 5/3/2015 18:08:22 | 34.45 | 33.15 | 1,345 | 0.25 | 0.38 | 73.6 |
| 5/3/2015 18:08:22 | 34.78 | 33.48 | 1,345 | 0.25 | 0.38 | 73.6 |
| 5/3/2015 18:08:22 | 35.11 | 33.81 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 18:08:23 | 35.43 | 34.13 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 18:08:23 | 35.76 | 34.46 | 1,329 | 0.24 | 0.32 | 72.7 |
| 5/3/2015 18:08:23 | 36.09 | 34.79 | 1,329 | 0.24 | 0.32 | 72.7 |
| 5/3/2015 18:08:23 | 36.42 | 35.12 | 1,339 | 0.25 | 0.34 | 73.2 |
| 5/3/2015 18:08:24 | 36.75 | 35.45 | 1,339 | 0.25 | 0.34 | 73.2 |
| 5/3/2015 18:08:24 | 37.07 | 35.77 | 1,334 | 0.24 | 0.39 | 73.0 |
| 5/3/2015 18:08:24 | 37.40 | 36.10 | 1,334 | 0.24 | 0.39 | 73.0 |
| 5/3/2015 18:08:24 | 37.73 | 36.43 | 1,342 | 0.25 | 0.38 | 73.4 |
| 5/3/2015 18:08:25 | 38.06 | 36.76 | 1,342 | 0.25 | 0.38 | 73.4 |
| 5/3/2015 18:08:25 | 38.39 | 37.09 | 1,331 | 0.24 | 0.37 | 72.8 |
| 5/3/2015 18:08:25 | 38.71 | 37.41 | 1,331 | 0.24 | 0.37 | 72.8 |
| 5/3/2015 18:08:25 | 39.04 | 37.74 | 1,362 | 0.25 | 0.37 | 74.5 |
| 5/3/2015 18:08:26 | 39.37 | 38.07 | 1,362 | 0.25 | 0.37 | 74.5 |
| 5/3/2015 18:08:25 | 39.70 | 38.40 | 1,351 | 0.25 | 0.39 | 73.9 |
| 5/3/2015 18:08:26 | 40.03 | 38.73 | 1,351 | 0.25 | 0.39 | 73.9 |
| 5/3/2015 18:08:26 | 40.35 | 39.05 | 1,357 | 0.25 | 0.37 | 74.2 |
| 5/3/2015 18:08:27 | 40.68 | 39.38 | 1,357 | 0.25 | 0.37 | 74.2 |
| 5/3/2015 18:08:27 | 41.01 | 39.71 | 1,354 | 0.24 | 0.30 | 74.0 |
| 5/3/2015 18:08:27 | 41.34 | 40.04 | 1,354 | 0.24 | 0.30 | 74.0 |
| 5/3/2015 18:08:27 | 41.67 | 40.37 | 1,362 | 0.25 | 0.39 | 74.5 |
| 5/3/2015 18:08:28 | 41.99 | 40.69 | 1,362 | 0.25 | 0.39 | 74.5 |
| 5/3/2015 18:08:28 | 42.32 | 41.02 | 1,342 | 0.24 | 0.38 | 73.4 |
| 5/3/2015 18:08:28 | 42.65 | 41.35 | 1,342 | 0.24 | 0.38 | 73.4 |
| 5/3/2015 18:08:28 | 42.98 | 41.68 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 18:08:29 | 43.31 | 42.01 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 18:08:29 | 43.64 | 42.34 | 1,347 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 18:08:29 | 43.96 | 42.66 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 18:08:30 | 44.29 | 42.99 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 18:08:30 | 44.62 | 43.32 | 1,353 | -0.03 | 0.37 | 74.0 |
| 5/3/2015 18:08:30 | 44.95 | 43.65 | 1,353 | -0.03 | 0.37 | 74.0 |
| 5/3/2015 18:08:30 | 45.28 | 43.98 | 1,356 | 0.25 | 0.33 | 74.1 |
| 5/3/2015 18:08:31 | 45.60 | 44.30 | 1,356 | 0.25 | 0.33 | 74.1 |
| 5/3/2015 18:08:31 | 45.93 | 44.63 | 1,356 | 0.25 | 0.37 | 74.1 |
| 5/3/2015 18:08:31 | 46.26 | 44.96 | 1,356 | 0.25 | 0.37 | 74.1 |
| 5/3/2015 18:08:31 | 46.59 | 45.29 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 18:08:32 | 46.92 | 45.62 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 18:08:32 | 47.24 | 45.94 | 1,350 | 0.24 | 0.37 | 73.8 |
| 5/3/2015 18:08:32 | 47.57 | 46.27 | 1,350 | 0.24 | 0.37 | 73.8 |
| 5/3/2015 18:08:33 | 47.90 | 46.60 | 1,362 | 0.25 | 0.38 | 74.5 |
| 5/3/2015 18:08:33 | 48.23 | 46.93 | 1,362 | 0.25 | 0.38 | 74.5 |
| 5/3/2015 18:08:33 | 48.56 | 47.26 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 18:08:33 | 48.88 | 47.58 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 18:08:34 | 49.21 | 47.91 | 1,362 | 0.25 | 0.37 | 74.5 |
| 5/3/2015 18:08:34 | 49.54 | 48.24 | 1,362 | 0.25 | 0.37 | 74.5 |
| 5/3/2015 18:08:34 | 49.87 | 48.57 | 1,359 | 0.23 | 0.45 | 74.3 |
| 5/3/2015 18:08:35 | 50.20 | 48.90 | 1,359 | 0.23 | 0.45 | 74.3 |
| 5/3/2015 18:08:41 | 50.53 | 49.23 | 108 | 5.50 | 0.49 | 5.9 |
| 5/3/2015 18:08:44 | 50.85 | 49.55 | 124 | 2.88 | 0.39 | 6.8 |
| 5/3/2015 18:08:45 | 51.18 | 49.88 | 264 | 2.02 | 0.45 | 14.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 18:08:48 | 51.51 | 50.21 | 0 | 2.42 | 0.39 | 0.0 |
| 5/3/2015 | 18:08:52 | 51.84 | 50.54 | 0 | 2.42 | 0.39 | 0.0 |
| 5/3/2015 | 18:08:49 | 52.17 | 50.87 | 183 | 2.31 | 0.41 | 10.0 |
| 5/3/2015 | 18:08:49 | 52.49 | 51.19 | 353 | 1.89 | 0.40 | 19.3 |
| 5/3/2015 | 18:08:50 | 52.82 | 51.52 | 353 | 1.89 | 0.40 | 19.3 |
| 5/3/2015 | 18:08:50 | 53.15 | 51.85 | 353 | 2.21 | 0.41 | 19.3 |
| 5/3/2015 | 18:08:50 | 53.48 | 52.18 | 564 | 2.51 | 0.43 | 30.8 |
| 5/3/2015 | 18:08:51 | 53.81 | 52.51 | 718 | 2.76 | 0.45 | 39.3 |
| 5/3/2015 | 18:09:09 | 54.13 | 52.83 | 96 | 2.82 | 0.48 | 5.2 |
| 5/3/2015 | 18:09:16 | 54.46 | 53.16 | 41 | 3.04 | 0.48 | 2.2 |
| 5/3/2015 | 18:09:25 | 54.79 | 53.49 | 44 | 3.15 | 0.49 | 2.4 |
| 5/3/2015 | 18:09:34 | 55.12 | 53.82 | 49 | 2.56 | 0.47 | 2.7 |
| 5/3/2015 | 18:09:38 | 55.31 | 54.01 | 50 | 2.81 | 0.48 | 2.7 |

## P245 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 18:06:22

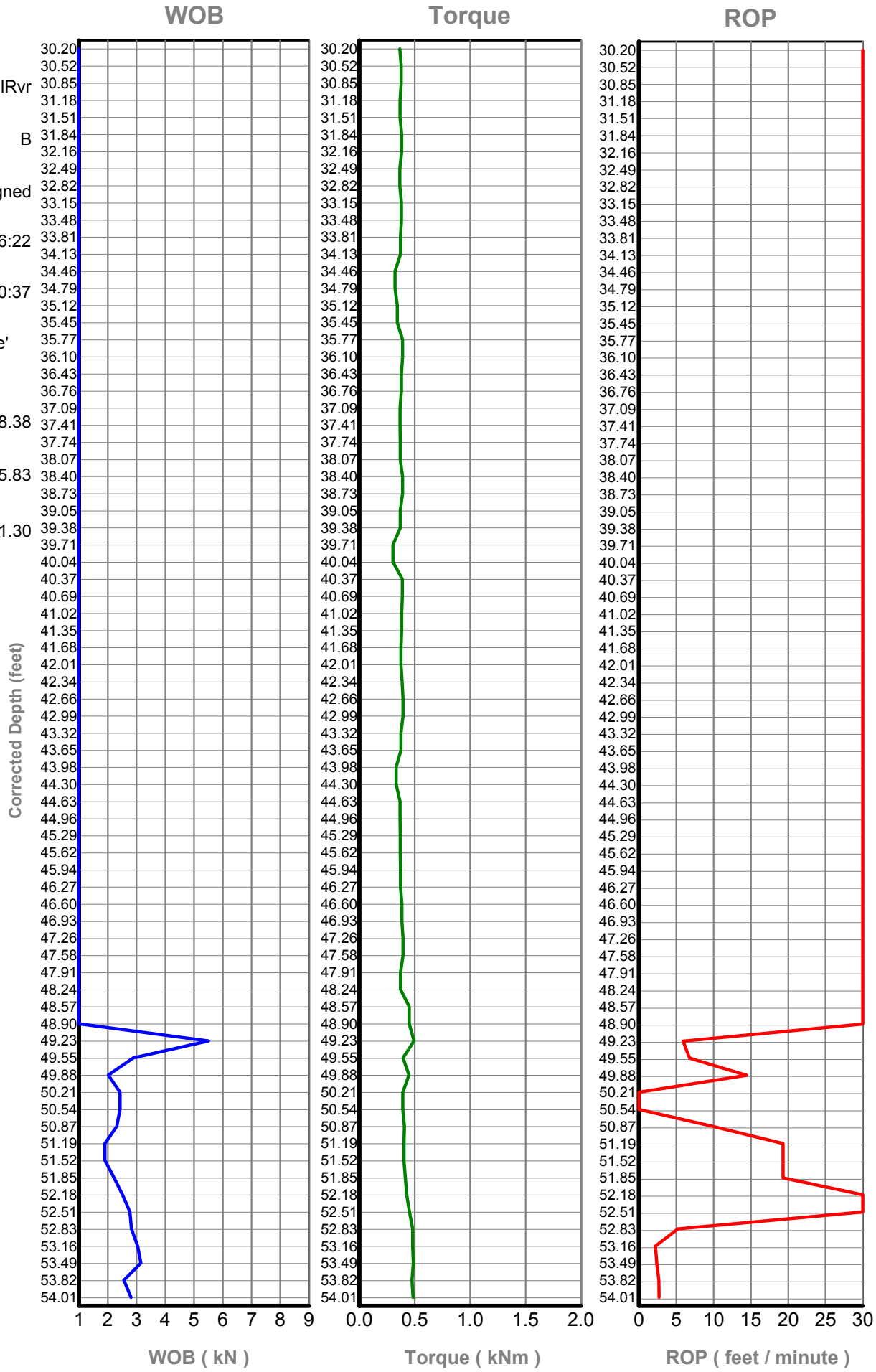
**End Date:**
5/3/2015 18:10:37

**Operator Note:**
'1.3 1.5 b Auto Complete'

**Northing:**
348,548.38

**Easting:**
224,625.83

**Tide (feet):**
1.30



## Hole: P246 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 18:07:14 | 31.50 | 30.20 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:14 | 31.82 | 30.52 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:15 | 32.15 | 30.85 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:15 | 32.48 | 31.18 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:16 | 32.81 | 31.51 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 18:07:16 | 33.14 | 31.84 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 18:07:16 | 33.46 | 32.16 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 18:07:17 | 33.79 | 32.49 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 18:07:17 | 34.12 | 32.82 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 18:07:17 | 34.45 | 33.15 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 18:07:18 | 34.78 | 33.48 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 18:07:18 | 35.11 | 33.81 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 18:07:18 | 35.43 | 34.13 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 18:07:18 | 35.76 | 34.46 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 18:07:19 | 36.09 | 34.79 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 18:07:19 | 36.42 | 35.12 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 18:07:19 | 36.75 | 35.45 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 18:07:20 | 37.07 | 35.77 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 18:07:20 | 37.40 | 36.10 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:20 | 37.73 | 36.43 | 1,189 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:20 | 38.06 | 36.76 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:21 | 38.39 | 37.09 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:21 | 38.71 | 37.41 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:21 | 39.04 | 37.74 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 18:07:22 | 39.37 | 38.07 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 18:07:22 | 39.70 | 38.40 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:22 | 40.03 | 38.73 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:22 | 40.35 | 39.05 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 18:07:23 | 40.68 | 39.38 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:23 | 41.01 | 39.71 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:23 | 41.34 | 40.04 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 18:07:24 | 41.67 | 40.37 | 1,197 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 18:07:24 | 41.99 | 40.69 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:24 | 42.32 | 41.02 | 1,204 | 1.14 | 0.29 | 65.8 |
| 5/3/2015 18:07:24 | 42.65 | 41.35 | 1,194 | 1.14 | 0.29 | 65.3 |
| 5/3/2015 18:07:25 | 42.98 | 41.68 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:25 | 43.31 | 42.01 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:25 | 43.64 | 42.34 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:26 | 43.96 | 42.66 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:26 | 44.29 | 42.99 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:27 | 44.62 | 43.32 | 1,201 | 1.14 | 0.29 | 65.7 |
| 5/3/2015 18:07:27 | 44.95 | 43.65 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:27 | 45.28 | 43.98 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:28 | 45.60 | 44.30 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:28 | 45.93 | 44.63 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:28 | 46.26 | 44.96 | 1,198 | 1.14 | 0.29 | 65.5 |
| 5/3/2015 18:07:28 | 46.59 | 45.29 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 18:07:29 | 46.92 | 45.62 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 18:07:29 | 47.24 | 45.94 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 18:07:29 | 47.57 | 46.27 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:30 | 47.90 | 46.60 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 18:07:30 | 48.23 | 46.93 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 18:07:30 | 48.56 | 47.26 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 18:07:30 | 48.88 | 47.58 | 1,182 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 18:07:31 | 49.21 | 47.91 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 18:07:31 | 49.54 | 48.24 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 18:07:31 | 49.87 | 48.57 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 18:07:32 | 50.20 | 48.90 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 18:07:32 | 50.53 | 49.23 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 18:08:00 | 50.85 | 49.55 | 77 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 18:08:01 | 51.18 | 49.88 | 189 | 1.14 | 0.29 | 10.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 18:08:02 | 51.51 | 50.21 | 280 | 1.14 | 0.29 | 15.3 |
| 5/3/2015 | 18:08:03 | 51.84 | 50.54 | 343 | 1.14 | 0.29 | 18.8 |
| 5/3/2015 | 18:08:03 | 52.17 | 50.87 | 414 | 1.14 | 0.29 | 22.6 |
| 5/3/2015 | 18:08:04 | 52.49 | 51.19 | 466 | 1.14 | 0.29 | 25.5 |
| 5/3/2015 | 18:08:05 | 52.82 | 51.52 | 465 | 1.14 | 0.29 | 25.4 |
| 5/3/2015 | 18:08:10 | 53.15 | 51.85 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 | 18:08:11 | 53.48 | 52.18 | 111 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 | 18:08:11 | 53.81 | 52.51 | 229 | 1.14 | 0.29 | 12.5 |
| 5/3/2015 | 18:08:13 | 54.13 | 52.83 | 470 | 1.14 | 0.29 | 25.7 |
| 5/3/2015 | 18:08:13 | 54.46 | 53.16 | 546 | 1.14 | 0.29 | 29.9 |
| 5/3/2015 | 18:08:14 | 54.79 | 53.49 | 546 | 1.14 | 0.29 | 29.9 |
| 5/3/2015 | 18:08:14 | 55.12 | 53.82 | 589 | 1.14 | 0.29 | 32.2 |
| 5/3/2015 | 18:08:15 | 55.45 | 54.15 | 598 | 1.14 | 0.29 | 32.7 |
| 5/3/2015 | 18:08:15 | 55.77 | 54.47 | 609 | 1.14 | 0.29 | 33.3 |
| 5/3/2015 | 18:08:19 | 56.10 | 54.80 | 22 | 1.14 | 0.29 | 1.2 |
| 5/3/2015 | 18:08:19 | 56.43 | 55.13 | 22 | 1.14 | 0.29 | 1.2 |
| 5/3/2015 | 18:08:20 | 56.76 | 55.46 | 154 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 | 18:08:21 | 56.82 | 55.52 | 154 | 1.14 | 0.29 | 8.4 |

## P246 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 18:05:59

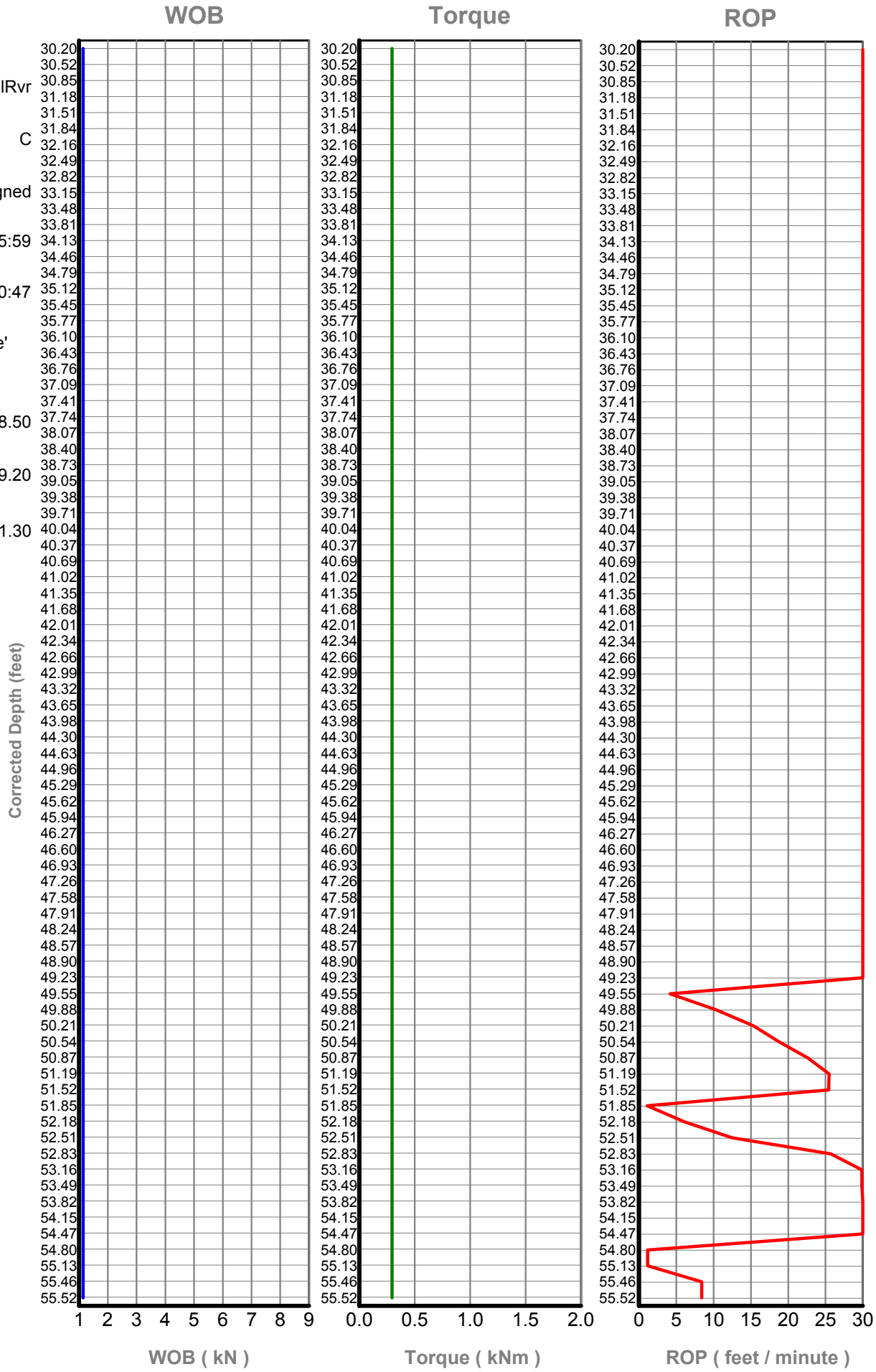
**End Date:**
5/3/2015 18:10:47

**Operator Note:**
'1.3 1.6 c Auto Complete'

**Northing:**
348,588.50

**Easting:**
224,689.20

**Tide (feet):**
1.30



## Hole: P247 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:52:54 | 36.42 | 30.22 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 12:52:54 | 36.75 | 30.55 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:55 | 37.07 | 30.87 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:52:55 | 37.40 | 31.20 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:52:55 | 37.73 | 31.53 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:56 | 38.06 | 31.86 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:56 | 38.39 | 32.19 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:56 | 38.71 | 32.51 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:57 | 39.04 | 32.84 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:52:58 | 39.37 | 33.17 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:52:58 | 39.70 | 33.50 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:52:58 | 40.03 | 33.83 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:52:59 | 40.35 | 34.15 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:52:59 | 40.68 | 34.48 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:52:59 | 41.01 | 34.81 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:53:00 | 41.34 | 35.14 | 963 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:53:00 | 41.67 | 35.47 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:01 | 41.99 | 35.79 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:01 | 42.32 | 36.12 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:53:01 | 42.65 | 36.45 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:02 | 42.98 | 36.78 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:02 | 43.31 | 37.11 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:02 | 43.64 | 37.44 | 968 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:53:03 | 43.96 | 37.76 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 12:53:03 | 44.29 | 38.09 | 968 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 12:53:03 | 44.62 | 38.42 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:04 | 44.95 | 38.75 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:53:04 | 45.28 | 39.08 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:53:04 | 45.60 | 39.40 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:53:05 | 45.93 | 39.73 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 12:53:05 | 46.26 | 40.06 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:06 | 46.59 | 40.39 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 12:53:06 | 46.92 | 40.72 | 957 | 0.54 | 0.17 | 52.4 |
| 5/3/2015 12:53:06 | 47.24 | 41.04 | 963 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:53:07 | 47.57 | 41.37 | 963 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:53:07 | 47.90 | 41.70 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:53:07 | 48.23 | 42.03 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:08 | 48.56 | 42.36 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 12:53:09 | 48.88 | 42.68 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 12:53:08 | 49.21 | 43.01 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:09 | 49.54 | 43.34 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:10 | 49.87 | 43.67 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:10 | 50.20 | 44.00 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:53:10 | 50.53 | 44.33 | 963 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:53:11 | 50.85 | 44.65 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 12:53:11 | 51.18 | 44.98 | 959 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 12:53:11 | 51.51 | 45.31 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:53:12 | 51.84 | 45.64 | 954 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 12:53:12 | 52.17 | 45.97 | 954 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 12:53:12 | 52.49 | 46.29 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 12:53:13 | 52.82 | 46.62 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 12:53:13 | 53.15 | 46.95 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 12:53:14 | 53.48 | 47.28 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 12:53:14 | 53.81 | 47.61 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 12:53:20 | 54.13 | 47.93 | 12 | 0.54 | 0.17 | 0.6 |
| 5/3/2015 12:53:23 | 54.46 | 48.26 | 111 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 12:53:28 | 54.79 | 48.59 | 32 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 12:53:29 | 55.12 | 48.92 | 168 | 0.54 | 0.17 | 9.2 |
| 5/3/2015 12:53:32 | 55.45 | 49.25 | 113 | 0.54 | 0.17 | 6.2 |
| 5/3/2015 12:53:34 | 55.77 | 49.57 | 146 | 0.54 | 0.17 | 8.0 |
| 5/3/2015 12:53:35 | 56.10 | 49.90 | 202 | 0.54 | 0.17 | 11.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:53:36 | 56.43 | 50.23 | 284 | 0.54 | 0.17 | 15.5 |
| 5/3/2015 | 12:53:38 | 56.76 | 50.56 | 265 | 0.54 | 0.17 | 14.5 |
| 5/3/2015 | 12:53:39 | 57.09 | 50.89 | 191 | 0.54 | 0.17 | 10.4 |
| 5/3/2015 | 12:53:40 | 57.41 | 51.21 | 260 | 0.54 | 0.17 | 14.2 |
| 5/3/2015 | 12:53:41 | 57.74 | 51.54 | 328 | 0.54 | 0.17 | 17.9 |
| 5/3/2015 | 12:53:43 | 58.07 | 51.87 | 182 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 | 12:53:46 | 58.40 | 52.20 | 108 | 0.54 | 0.17 | 5.9 |
| 5/3/2015 | 12:53:48 | 58.73 | 52.53 | 183 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 | 12:53:50 | 59.06 | 52.86 | 208 | 0.54 | 0.17 | 11.4 |
| 5/3/2015 | 12:53:51 | 59.38 | 53.18 | 241 | 0.54 | 0.17 | 13.2 |
| 5/3/2015 | 12:53:52 | 59.71 | 53.51 | 317 | 0.54 | 0.17 | 17.3 |
| 5/3/2015 | 12:53:53 | 60.04 | 53.84 | 293 | 0.54 | 0.17 | 16.0 |
| 5/3/2015 | 12:53:56 | 60.37 | 54.17 | 205 | 0.54 | 0.17 | 11.2 |
| 5/3/2015 | 12:53:57 | 60.70 | 54.50 | 253 | 0.54 | 0.17 | 13.8 |
| 5/3/2015 | 12:54:00 | 61.02 | 54.82 | 120 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 | 12:54:04 | 61.15 | 54.95 | 37 | 0.54 | 0.17 | 2.0 |

## P247 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:51:18

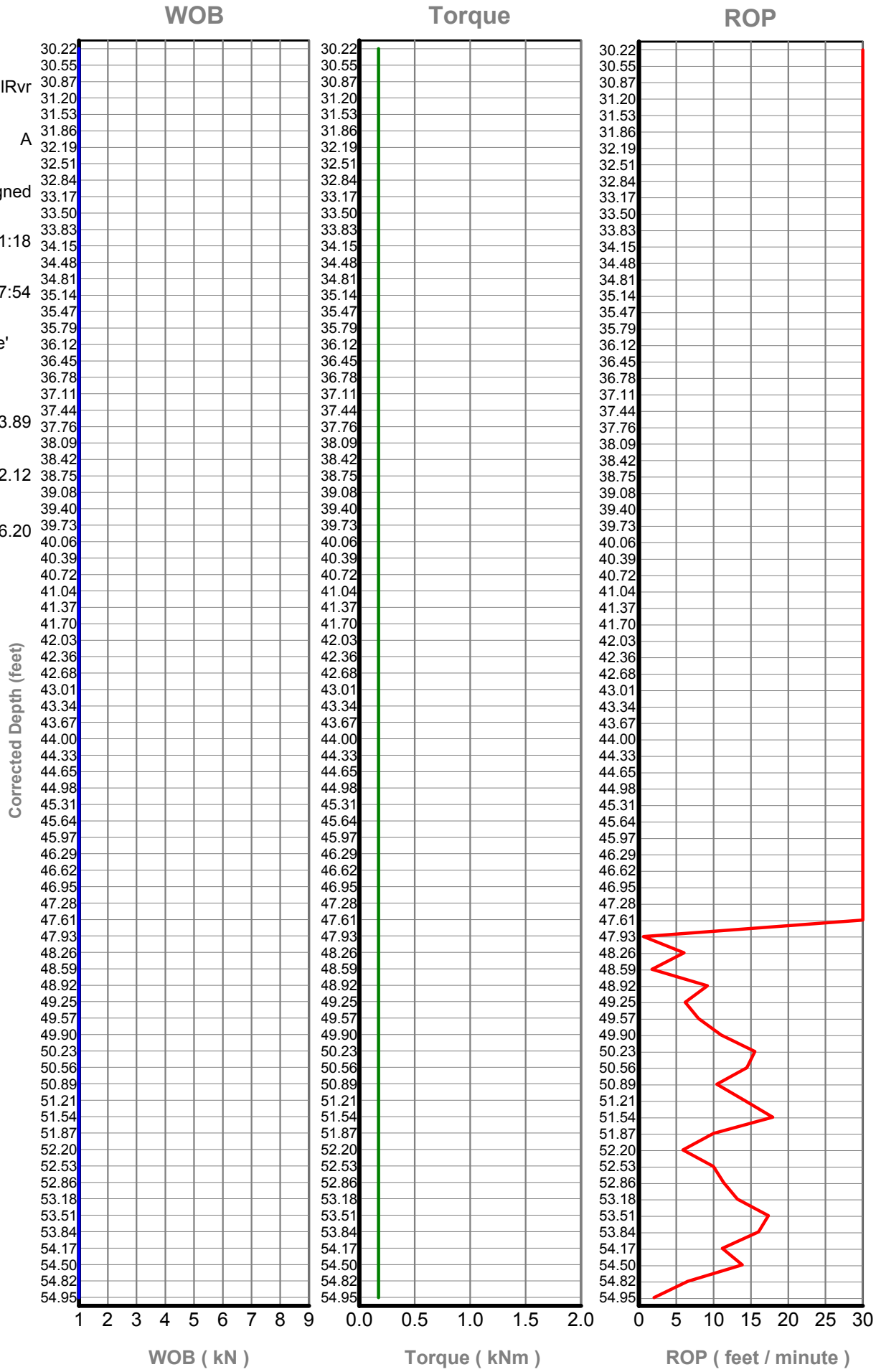
**End Date:**
5/3/2015 12:57:54

**Operator Note:**
'6.2 6.2 a Auto Complete'

**Northing:**
348,633.89

**Easting:**
224,742.12

**Tide (feet):**
6.20



## Hole: P248 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:52:30 | 36.42 | 30.22 | 1,282 | 0.26 | 0.37 | 70.1 |
| 5/3/2015 12:52:30 | 36.75 | 30.55 | 1,272 | 0.26 | 0.37 | 69.5 |
| 5/3/2015 12:52:31 | 37.07 | 30.87 | 1,272 | 0.26 | 0.37 | 69.5 |
| 5/3/2015 12:52:31 | 37.40 | 31.20 | 1,287 | 0.26 | 0.39 | 70.4 |
| 5/3/2015 12:52:31 | 37.73 | 31.53 | 1,311 | 0.24 | 0.37 | 71.7 |
| 5/3/2015 12:52:32 | 38.06 | 31.86 | 1,311 | 0.24 | 0.37 | 71.7 |
| 5/3/2015 12:52:32 | 38.39 | 32.19 | 1,319 | 0.30 | 0.38 | 72.1 |
| 5/3/2015 12:52:33 | 38.71 | 32.51 | 1,319 | 0.30 | 0.38 | 72.1 |
| 5/3/2015 12:52:33 | 39.04 | 32.84 | 1,293 | 0.27 | 0.39 | 70.7 |
| 5/3/2015 12:52:33 | 39.37 | 33.17 | 1,293 | 0.27 | 0.39 | 70.7 |
| 5/3/2015 12:52:33 | 39.70 | 33.50 | 1,296 | 0.30 | 0.37 | 70.9 |
| 5/3/2015 12:52:34 | 40.03 | 33.83 | 1,296 | 0.30 | 0.37 | 70.9 |
| 5/3/2015 12:52:34 | 40.35 | 34.15 | 1,305 | 0.29 | 0.39 | 71.4 |
| 5/3/2015 12:52:34 | 40.68 | 34.48 | 1,305 | 0.29 | 0.39 | 71.4 |
| 5/3/2015 12:52:34 | 41.01 | 34.81 | 1,296 | 0.28 | 0.39 | 70.9 |
| 5/3/2015 12:52:35 | 41.34 | 35.14 | 1,296 | 0.28 | 0.39 | 70.9 |
| 5/3/2015 12:52:35 | 41.67 | 35.47 | 1,293 | 0.23 | 0.38 | 70.7 |
| 5/3/2015 12:52:35 | 41.99 | 35.79 | 1,293 | 0.23 | 0.38 | 70.7 |
| 5/3/2015 12:52:35 | 42.32 | 36.12 | 1,292 | 0.31 | 0.43 | 70.7 |
| 5/3/2015 12:52:36 | 42.65 | 36.45 | 1,292 | 0.31 | 0.43 | 70.7 |
| 5/3/2015 12:52:36 | 42.98 | 36.78 | 1,304 | 0.26 | 0.38 | 71.3 |
| 5/3/2015 12:52:36 | 43.31 | 37.11 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 12:52:37 | 43.64 | 37.44 | 1,261 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 12:52:37 | 43.96 | 37.76 | 1,261 | 0.27 | 0.38 | 69.0 |
| 5/3/2015 12:52:37 | 44.29 | 38.09 | 1,261 | 0.27 | 0.38 | 69.0 |
| 5/3/2015 12:52:37 | 44.62 | 38.42 | 1,274 | 0.27 | 0.39 | 69.7 |
| 5/3/2015 12:52:38 | 44.95 | 38.75 | 1,274 | 0.27 | 0.39 | 69.7 |
| 5/3/2015 12:52:38 | 45.28 | 39.08 | 1,274 | 0.27 | 0.38 | 69.7 |
| 5/3/2015 12:52:38 | 45.60 | 39.40 | 1,274 | 0.27 | 0.38 | 69.7 |
| 5/3/2015 12:52:38 | 45.93 | 39.73 | 1,268 | 0.24 | 0.39 | 69.3 |
| 5/3/2015 12:52:39 | 46.26 | 40.06 | 1,268 | 0.24 | 0.39 | 69.3 |
| 5/3/2015 12:52:39 | 46.59 | 40.39 | 1,273 | 0.27 | 0.37 | 69.6 |
| 5/3/2015 12:52:39 | 46.92 | 40.72 | 1,273 | 0.27 | 0.37 | 69.6 |
| 5/3/2015 12:52:39 | 47.24 | 41.04 | 1,288 | 0.29 | 0.36 | 70.5 |
| 5/3/2015 12:52:40 | 47.57 | 41.37 | 1,279 | 0.26 | 0.38 | 69.9 |
| 5/3/2015 12:52:40 | 47.90 | 41.70 | 1,279 | 0.26 | 0.38 | 69.9 |
| 5/3/2015 12:52:40 | 48.23 | 42.03 | 1,271 | 0.26 | 0.38 | 69.5 |
| 5/3/2015 12:52:41 | 48.56 | 42.36 | 1,271 | 0.26 | 0.38 | 69.5 |
| 5/3/2015 12:52:41 | 48.88 | 42.68 | 1,281 | 0.26 | 0.38 | 70.0 |
| 5/3/2015 12:52:41 | 49.21 | 43.01 | 1,281 | 0.26 | 0.38 | 70.0 |
| 5/3/2015 12:52:42 | 49.54 | 43.34 | 1,276 | 0.26 | 0.39 | 69.8 |
| 5/3/2015 12:52:42 | 49.87 | 43.67 | 1,276 | 0.26 | 0.39 | 69.8 |
| 5/3/2015 12:52:42 | 50.20 | 44.00 | 1,267 | 0.26 | 0.38 | 69.3 |
| 5/3/2015 12:52:42 | 50.53 | 44.33 | 1,267 | 0.26 | 0.38 | 69.3 |
| 5/3/2015 12:52:43 | 50.85 | 44.65 | 1,267 | 0.26 | 0.38 | 69.3 |
| 5/3/2015 12:52:43 | 51.18 | 44.98 | 1,267 | 0.26 | 0.38 | 69.3 |
| 5/3/2015 12:52:43 | 51.51 | 45.31 | 1,276 | 0.28 | 0.39 | 69.8 |
| 5/3/2015 12:52:44 | 51.84 | 45.64 | 1,276 | 0.28 | 0.39 | 69.8 |
| 5/3/2015 12:52:44 | 52.17 | 45.97 | 1,279 | 0.26 | 0.39 | 69.9 |
| 5/3/2015 12:52:44 | 52.49 | 46.29 | 1,295 | 0.26 | 0.37 | 70.8 |
| 5/3/2015 12:52:45 | 52.82 | 46.62 | 1,295 | 0.26 | 0.37 | 70.8 |
| 5/3/2015 12:52:45 | 53.15 | 46.95 | 1,287 | 0.25 | 0.39 | 70.4 |
| 5/3/2015 12:52:45 | 53.48 | 47.28 | 1,287 | 0.25 | 0.39 | 70.4 |
| 5/3/2015 12:52:49 | 53.81 | 47.61 | 29 | 3.14 | 0.44 | 1.6 |
| 5/3/2015 12:52:53 | 54.13 | 47.93 | 102 | 3.90 | 0.46 | 5.6 |
| 5/3/2015 12:52:56 | 54.46 | 48.26 | 66 | 2.84 | 0.44 | 3.6 |
| 5/3/2015 12:52:57 | 54.79 | 48.59 | 160 | 2.42 | 0.44 | 8.7 |
| 5/3/2015 12:53:00 | 55.12 | 48.92 | 48 | 4.51 | 0.46 | 2.7 |
| 5/3/2015 12:53:06 | 55.45 | 49.25 | 79 | 3.62 | 0.49 | 4.3 |
| 5/3/2015 12:53:07 | 55.77 | 49.57 | 105 | 4.59 | 0.45 | 5.7 |
| 5/3/2015 12:53:08 | 56.10 | 49.90 | 279 | 4.26 | 0.47 | 15.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:53:31 | 56.43 | 50.23 | 86 | 5.69 | 0.47 | 4.7 |
| 5/3/2015 | 12:53:35 | 56.76 | 50.56 | 105 | 3.80 | 0.46 | 5.7 |
| 5/3/2015 | 12:53:35 | 57.09 | 50.89 | 171 | 2.47 | 0.44 | 9.3 |
| 5/3/2015 | 12:53:36 | 57.41 | 51.21 | 362 | 3.74 | 0.44 | 19.8 |
| 5/3/2015 | 12:53:37 | 57.74 | 51.54 | 445 | 3.32 | 0.44 | 24.3 |
| 5/3/2015 | 12:53:37 | 58.07 | 51.87 | 474 | 2.84 | 0.44 | 25.9 |
| 5/3/2015 | 12:53:47 | 58.40 | 52.20 | 25 | 2.63 | 0.48 | 1.4 |
| 5/3/2015 | 12:53:59 | 58.73 | 52.53 | 32 | 2.34 | 0.48 | 1.7 |
| 5/3/2015 | 12:54:14 | 59.06 | 52.86 | 26 | 2.31 | 0.49 | 1.4 |
| 5/3/2015 | 12:54:27 | 59.38 | 53.18 | 29 | 2.48 | 0.48 | 1.6 |

## P248 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:50:56

**End Date:**
5/3/2015 12:56:00

**Operator Note:**
'6.2 6.2 b Auto Complete'

**Northing:**
348,672.51

**Easting:**
224,810.41

**Tide (feet):**
6.20



## Hole: P249 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:55:25 | 36.42 | 30.22 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 12:55:26 | 36.75 | 30.55 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 12:55:26 | 37.07 | 30.87 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 12:55:26 | 37.40 | 31.20 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 12:55:26 | 37.73 | 31.53 | 1,151 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 12:55:27 | 38.06 | 31.86 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 12:55:28 | 38.39 | 32.19 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 12:55:27 | 38.71 | 32.51 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:28 | 39.04 | 32.84 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:28 | 39.37 | 33.17 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:29 | 39.70 | 33.50 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:55:29 | 40.03 | 33.83 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:55:29 | 40.35 | 34.15 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:55:30 | 40.68 | 34.48 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:55:30 | 41.01 | 34.81 | 1,129 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:55:30 | 41.34 | 35.14 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 12:55:31 | 41.67 | 35.47 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 12:55:31 | 41.99 | 35.79 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 12:55:31 | 42.32 | 36.12 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 12:55:31 | 42.65 | 36.45 | 1,118 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 12:55:32 | 42.98 | 36.78 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:32 | 43.31 | 37.11 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:32 | 43.64 | 37.44 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:33 | 43.96 | 37.76 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:55:33 | 44.29 | 38.09 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 12:55:33 | 44.62 | 38.42 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:34 | 44.95 | 38.75 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:34 | 45.28 | 39.08 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:55:34 | 45.60 | 39.40 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:55:34 | 45.93 | 39.73 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 12:55:35 | 46.26 | 40.06 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 12:55:35 | 46.59 | 40.39 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 12:55:35 | 46.92 | 40.72 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 12:55:36 | 47.24 | 41.04 | 1,144 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 12:55:36 | 47.57 | 41.37 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 12:55:36 | 47.90 | 41.70 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:37 | 48.23 | 42.03 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:37 | 48.56 | 42.36 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:37 | 48.88 | 42.68 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:55:37 | 49.21 | 43.01 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 12:55:38 | 49.54 | 43.34 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:55:39 | 49.87 | 43.67 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:55:38 | 50.20 | 44.00 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:39 | 50.53 | 44.33 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:40 | 50.85 | 44.65 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:39 | 51.18 | 44.98 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:40 | 51.51 | 45.31 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:40 | 51.84 | 45.64 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:55:41 | 52.17 | 45.97 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 12:55:41 | 52.49 | 46.29 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 12:55:41 | 52.82 | 46.62 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 12:55:42 | 53.15 | 46.95 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 12:56:39 | 53.48 | 47.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 12:56:40 | 53.81 | 47.61 | 62 | 1.14 | 0.29 | 3.4 |
| 5/3/2015 12:56:41 | 54.13 | 47.93 | 283 | 1.14 | 0.29 | 15.5 |
| 5/3/2015 12:56:41 | 54.46 | 48.26 | 411 | 1.14 | 0.29 | 22.5 |
| 5/3/2015 12:56:42 | 54.79 | 48.59 | 541 | 1.14 | 0.29 | 29.6 |
| 5/3/2015 12:56:42 | 55.12 | 48.92 | 602 | 1.14 | 0.29 | 32.9 |
| 5/3/2015 12:56:43 | 55.45 | 49.25 | 622 | 1.14 | 0.29 | 34.0 |
| 5/3/2015 12:56:44 | 55.77 | 49.57 | 515 | 1.14 | 0.29 | 28.2 |
| 5/3/2015 12:56:51 | 56.10 | 49.90 | 40 | 1.14 | 0.29 | 2.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 12:57:02 | 56.43 | 50.23 | 28 | 1.14 | 0.29 | 1.5 |
| 5/3/2015 12:57:14 | 56.76 | 50.56 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 12:57:26 | 57.09 | 50.89 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 12:57:37 | 57.30 | 51.10 | 23 | 1.14 | 0.29 | 1.3 |

## P249 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 12:54:25

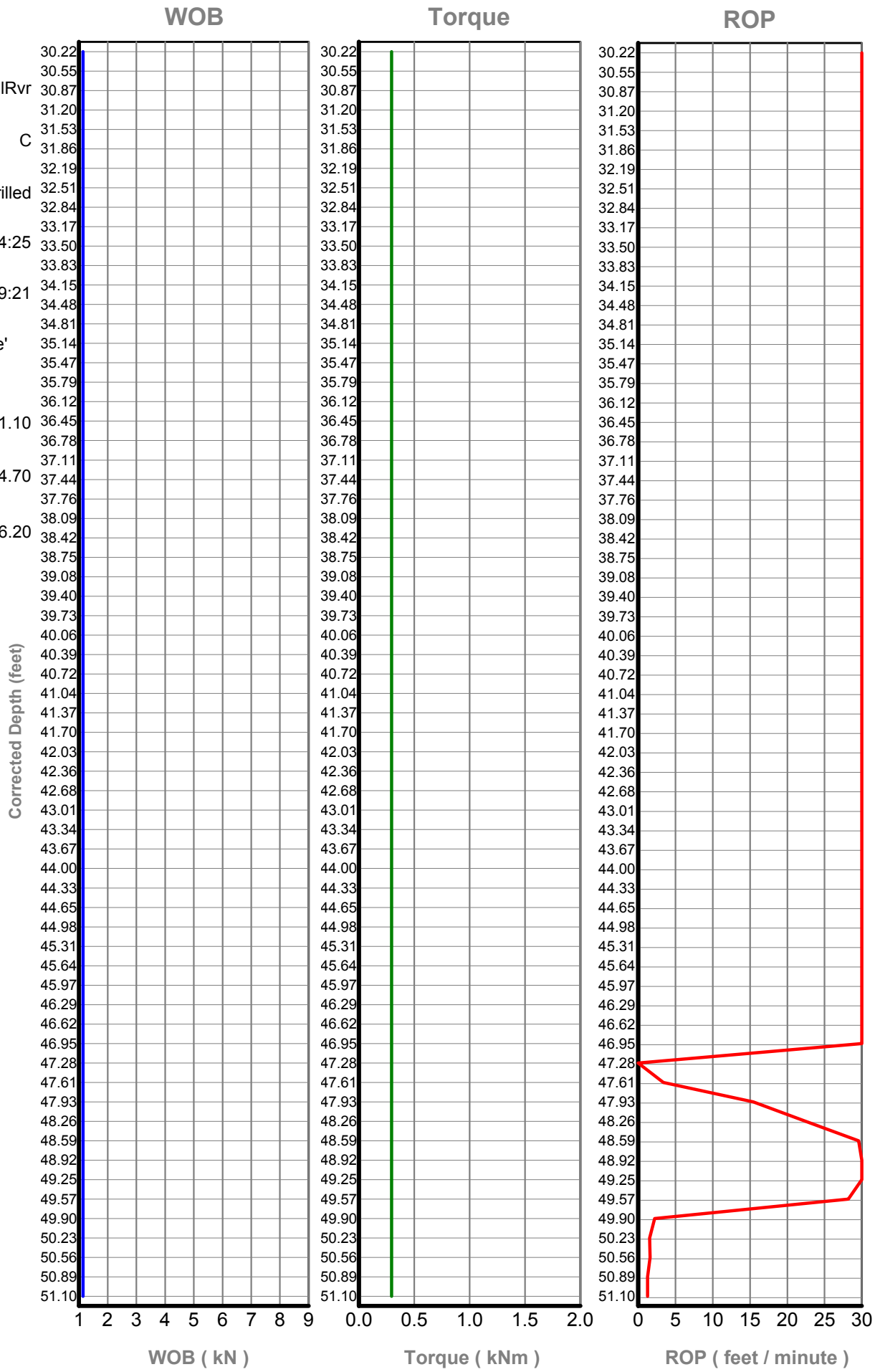
**End Date:**
5/3/2015 12:59:21

**Operator Note:**
'6.2 6.2 c Auto Complete'

**Northing:**
348,711.10

**Easting:**
224,874.70

**Tide (feet):**
6.20



## Hole: P25 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:18:47 | 33.79 | 30.19 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 15:18:47 | 34.12 | 30.52 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 15:18:48 | 34.45 | 30.85 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 15:18:48 | 34.78 | 31.18 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 15:18:48 | 35.11 | 31.51 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 15:18:49 | 35.43 | 31.83 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 15:18:49 | 35.76 | 32.16 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 15:18:49 | 36.09 | 32.49 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 15:18:50 | 36.42 | 32.82 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 15:18:50 | 36.75 | 33.15 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 15:18:51 | 37.07 | 33.47 | 934 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 15:18:51 | 37.40 | 33.80 | 923 | 0.54 | 0.17 | 50.5 |
| 5/2/2015 15:18:51 | 37.73 | 34.13 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:52 | 38.06 | 34.46 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:52 | 38.39 | 34.79 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:52 | 38.71 | 35.11 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 15:18:53 | 39.04 | 35.44 | 930 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 15:18:53 | 39.37 | 35.77 | 930 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 15:18:53 | 39.70 | 36.10 | 935 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 15:18:54 | 40.03 | 36.43 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:18:54 | 40.35 | 36.75 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:18:55 | 40.68 | 37.08 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:18:55 | 41.01 | 37.41 | 935 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 15:18:55 | 41.34 | 37.74 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:56 | 41.67 | 38.07 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:56 | 41.99 | 38.39 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 15:18:56 | 42.32 | 38.72 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 15:18:57 | 42.65 | 39.05 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 15:18:58 | 42.98 | 39.38 | 926 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:18:58 | 43.31 | 39.71 | 926 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:18:58 | 43.64 | 40.04 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 15:18:59 | 43.96 | 40.36 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 15:18:59 | 44.29 | 40.69 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 15:18:59 | 44.62 | 41.02 | 935 | 0.54 | 0.17 | 51.1 |
| 5/2/2015 15:19:00 | 44.95 | 41.35 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:19:00 | 45.28 | 41.68 | 932 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 15:19:01 | 45.60 | 42.00 | 932 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 15:19:01 | 45.93 | 42.33 | 932 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 15:19:01 | 46.26 | 42.66 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 15:19:02 | 46.59 | 42.99 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 15:19:02 | 46.92 | 43.32 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 15:19:02 | 47.24 | 43.64 | 912 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 15:19:03 | 47.57 | 43.97 | 911 | 0.54 | 0.17 | 49.8 |
| 5/2/2015 15:19:03 | 47.90 | 44.30 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 15:19:04 | 48.23 | 44.63 | 904 | 0.54 | 0.17 | 49.4 |
| 5/2/2015 15:19:04 | 48.56 | 44.96 | 920 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 15:19:04 | 48.88 | 45.28 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 15:19:11 | 49.21 | 45.61 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 15:19:12 | 49.54 | 45.94 | 140 | 0.54 | 0.17 | 7.6 |
| 5/2/2015 15:19:13 | 49.87 | 46.27 | 250 | 0.54 | 0.17 | 13.7 |
| 5/2/2015 15:19:13 | 50.20 | 46.60 | 389 | 0.54 | 0.17 | 21.3 |
| 5/2/2015 15:19:14 | 50.53 | 46.93 | 389 | 0.54 | 0.17 | 21.3 |
| 5/2/2015 15:19:15 | 50.85 | 47.25 | 446 | 0.54 | 0.17 | 24.4 |
| 5/2/2015 15:19:17 | 51.18 | 47.58 | 283 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 15:19:24 | 51.51 | 47.91 | 62 | 0.54 | 0.17 | 3.4 |
| 5/2/2015 15:19:31 | 51.84 | 48.24 | 47 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 15:19:39 | 52.17 | 48.57 | 42 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 15:19:49 | 52.49 | 48.89 | 41 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 15:19:58 | 52.82 | 49.22 | 48 | 0.54 | 0.17 | 2.7 |
| 5/2/2015 15:20:01 | 52.96 | 49.36 | 49 | 0.54 | 0.17 | 2.7 |

## P25 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:17:18

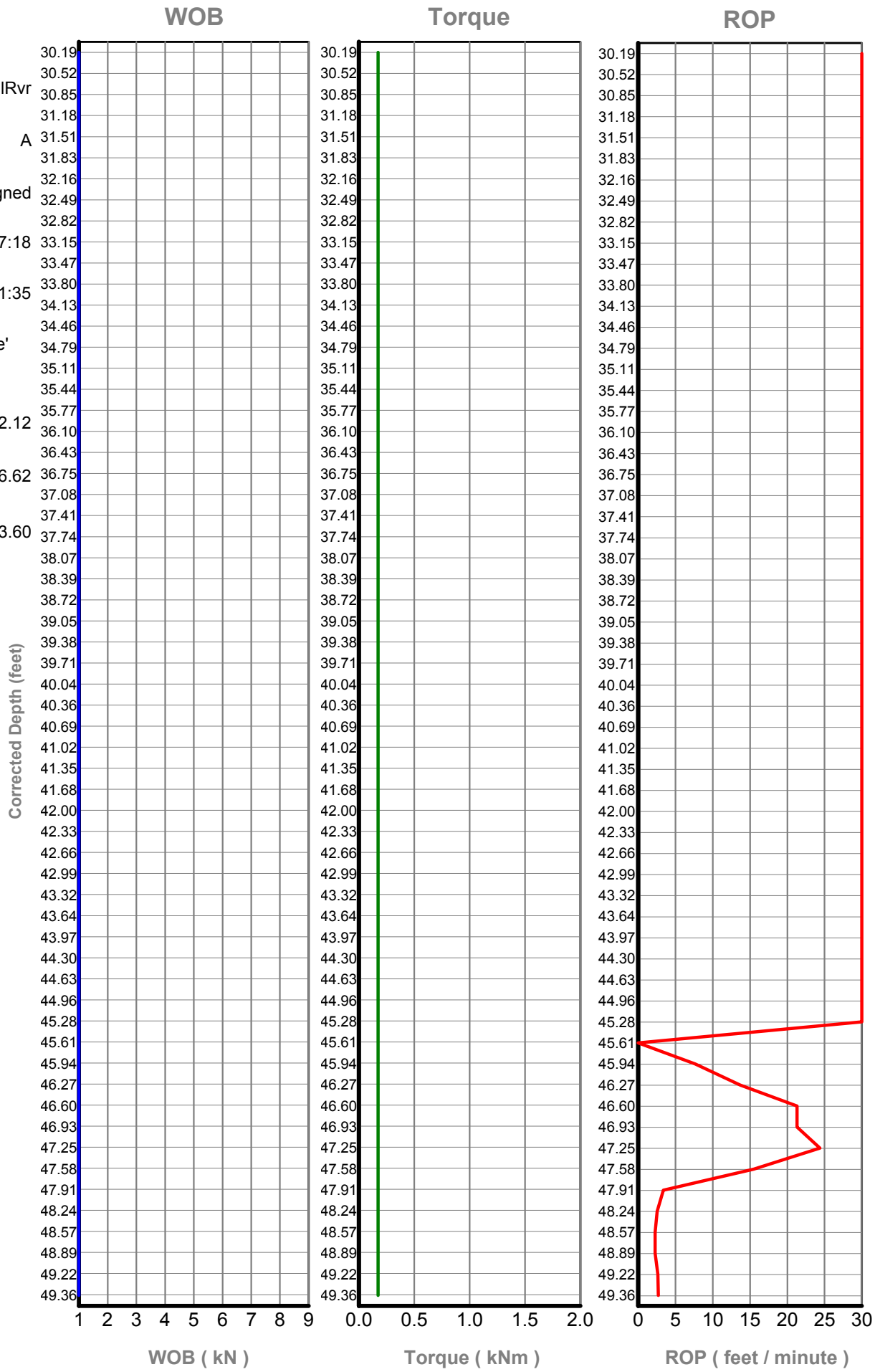
**End Date:**
5/2/2015 15:21:35

**Operator Note:**
'3.6 3.7 a Auto Complete'

**Northing:**
349,802.12

**Easting:**
225,346.62

**Tide (feet):**
3.60



## Hole: P250 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:46:49 | 36.09 | 30.19 | 985 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 11:46:50 | 36.42 | 30.52 | 985 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 11:46:50 | 36.75 | 30.85 | 982 | 0.54 | 0.17 | 53.7 |
| 5/3/2015 11:46:50 | 37.07 | 31.17 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 11:46:51 | 37.40 | 31.50 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 11:46:51 | 37.73 | 31.83 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 11:46:51 | 38.06 | 32.16 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:46:52 | 38.39 | 32.49 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:46:52 | 38.71 | 32.81 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:46:52 | 39.04 | 33.14 | 972 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 11:46:53 | 39.37 | 33.47 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 11:46:53 | 39.70 | 33.80 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 11:46:53 | 40.03 | 34.13 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 11:46:54 | 40.35 | 34.45 | 983 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 11:46:54 | 40.68 | 34.78 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 11:46:55 | 41.01 | 35.11 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 11:46:55 | 41.34 | 35.44 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 11:46:56 | 41.67 | 35.77 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:46:56 | 41.99 | 36.09 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:46:56 | 42.32 | 36.42 | 970 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 11:46:57 | 42.65 | 36.75 | 967 | 0.54 | 0.17 | 52.9 |
| 5/3/2015 11:46:57 | 42.98 | 37.08 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:46:58 | 43.31 | 37.41 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 11:46:58 | 43.64 | 37.74 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:46:58 | 43.96 | 38.06 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:46:59 | 44.29 | 38.39 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:46:59 | 44.62 | 38.72 | 965 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:46:59 | 44.95 | 39.05 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:47:00 | 45.28 | 39.38 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:00 | 45.60 | 39.70 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:00 | 45.93 | 40.03 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:01 | 46.26 | 40.36 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:01 | 46.59 | 40.69 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:01 | 46.92 | 41.02 | 950 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 11:47:02 | 47.24 | 41.34 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:47:02 | 47.57 | 41.67 | 952 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:47:03 | 47.90 | 42.00 | 952 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:47:03 | 48.23 | 42.33 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:47:03 | 48.56 | 42.66 | 966 | 0.54 | 0.17 | 52.8 |
| 5/3/2015 11:47:04 | 48.88 | 42.98 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:47:04 | 49.21 | 43.31 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:47:04 | 49.54 | 43.64 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 11:47:05 | 49.87 | 43.97 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 11:47:06 | 50.20 | 44.30 | 948 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 11:47:05 | 50.53 | 44.63 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 11:47:06 | 50.85 | 44.95 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 11:47:06 | 51.18 | 45.28 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:47:07 | 51.51 | 45.61 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:47:07 | 51.84 | 45.94 | 955 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 11:47:08 | 52.17 | 46.27 | 960 | 0.54 | 0.17 | 52.5 |
| 5/3/2015 11:47:08 | 52.49 | 46.59 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:47:09 | 52.82 | 46.92 | 953 | 0.54 | 0.17 | 52.1 |
| 5/3/2015 11:47:19 | 53.15 | 47.25 | 70 | 0.54 | 0.17 | 3.9 |
| 5/3/2015 11:47:21 | 53.48 | 47.58 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 11:47:23 | 53.81 | 47.91 | 173 | 0.54 | 0.17 | 9.5 |
| 5/3/2015 11:47:25 | 54.13 | 48.23 | 166 | 0.54 | 0.17 | 9.1 |
| 5/3/2015 11:47:27 | 54.46 | 48.56 | 204 | 0.54 | 0.17 | 11.1 |
| 5/3/2015 11:47:32 | 54.79 | 48.89 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 11:47:34 | 55.12 | 49.22 | 130 | 0.54 | 0.17 | 7.1 |
| 5/3/2015 11:47:36 | 55.45 | 49.55 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 11:47:37 | 55.77 | 49.87 | 189 | 0.54 | 0.17 | 10.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:47:38 | 56.10 | 50.20 | 298 | 0.54 | 0.17 | 16.3 |
| 5/3/2015 11:47:39 | 56.43 | 50.53 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 11:47:40 | 56.76 | 50.86 | 403 | 0.54 | 0.17 | 22.1 |
| 5/3/2015 11:47:41 | 57.09 | 51.19 | 334 | 0.54 | 0.17 | 18.3 |
| 5/3/2015 11:47:43 | 57.41 | 51.51 | 250 | 0.54 | 0.17 | 13.7 |
| 5/3/2015 11:47:45 | 57.74 | 51.84 | 182 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 11:47:47 | 58.07 | 52.17 | 180 | 0.54 | 0.17 | 9.9 |
| 5/3/2015 11:47:50 | 58.40 | 52.50 | 160 | 0.54 | 0.17 | 8.7 |
| 5/3/2015 11:47:52 | 58.73 | 52.83 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 11:47:58 | 59.06 | 53.16 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 11:48:00 | 59.38 | 53.48 | 128 | 0.54 | 0.17 | 7.0 |
| 5/3/2015 11:48:02 | 59.71 | 53.81 | 215 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 11:48:03 | 60.04 | 54.14 | 224 | 0.54 | 0.17 | 12.2 |
| 5/3/2015 11:48:05 | 60.37 | 54.47 | 210 | 0.54 | 0.17 | 11.5 |
| 5/3/2015 11:48:08 | 60.68 | 54.78 | 99 | 0.54 | 0.17 | 5.4 |

## P250 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:45:03

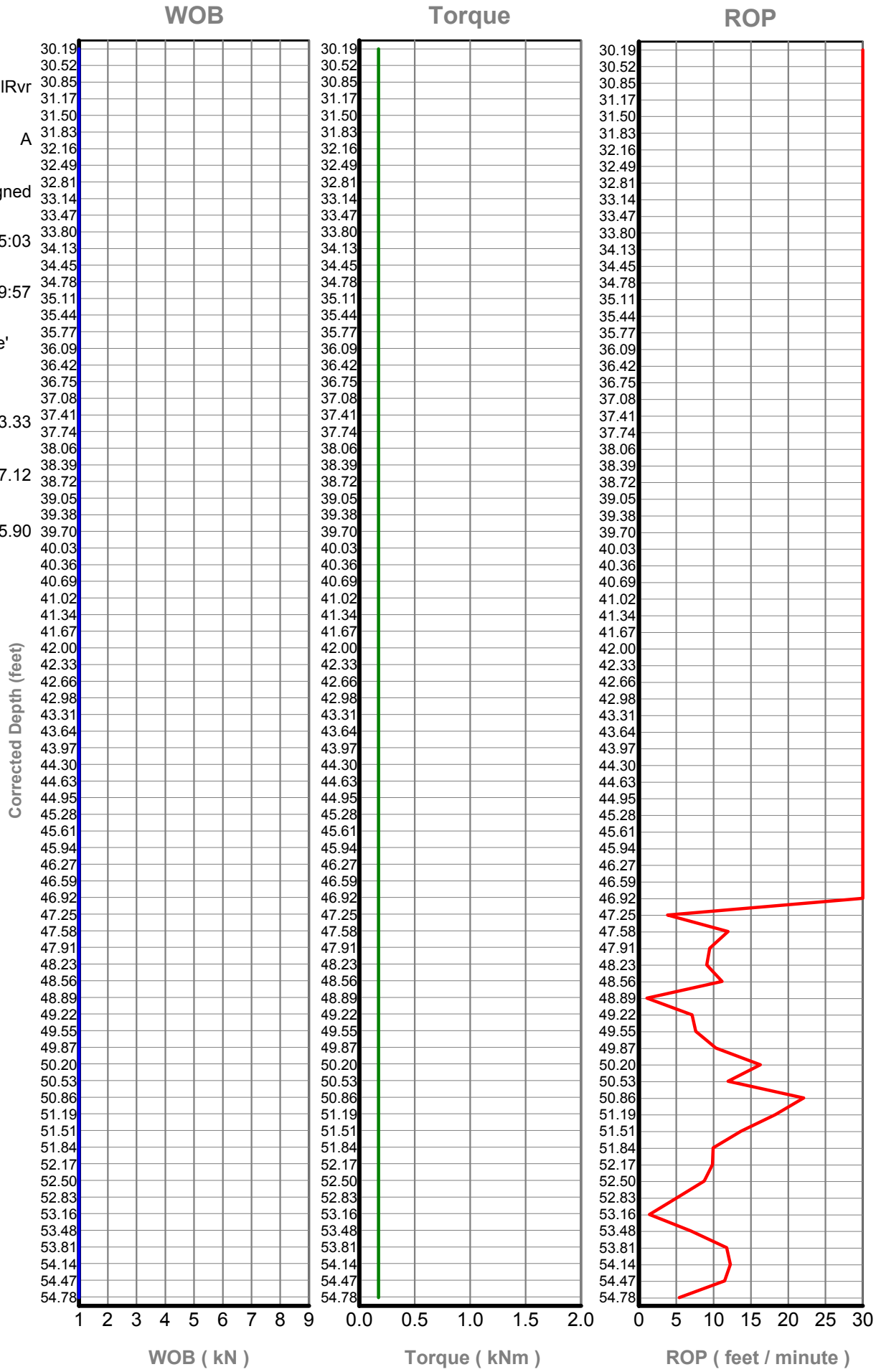
**End Date:**
5/3/2015 11:49:57

**Operator Note:**
'5.9 5.7 a Auto Complete'

**Northing:**
348,753.33

**Easting:**
224,937.12

**Tide (feet):**
5.90



## Hole: P251 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:46:20 | 36.09 | 30.19 | 1,312 | 0.26 | 0.39 | 71.8 |
| 5/3/2015 11:46:20 | 36.42 | 30.52 | 1,275 | 0.26 | 0.39 | 69.7 |
| 5/3/2015 11:46:21 | 36.75 | 30.85 | 1,275 | 0.26 | 0.39 | 69.7 |
| 5/3/2015 11:46:21 | 37.07 | 31.17 | 1,275 | 0.26 | 0.39 | 69.7 |
| 5/3/2015 11:46:22 | 37.40 | 31.50 | 1,275 | 0.26 | 0.39 | 69.7 |
| 5/3/2015 11:46:21 | 37.73 | 31.83 | 1,300 | 0.26 | 0.39 | 71.1 |
| 5/3/2015 11:46:22 | 38.06 | 32.16 | 1,300 | 0.26 | 0.39 | 71.1 |
| 5/3/2015 11:46:22 | 38.39 | 32.49 | 1,304 | 0.26 | 0.36 | 71.3 |
| 5/3/2015 11:46:22 | 38.71 | 32.81 | 1,304 | 0.26 | 0.36 | 71.3 |
| 5/3/2015 11:46:22 | 39.04 | 33.14 | 1,320 | 0.26 | 0.37 | 72.2 |
| 5/3/2015 11:46:23 | 39.37 | 33.47 | 1,320 | 0.26 | 0.37 | 72.2 |
| 5/3/2015 11:46:23 | 39.70 | 33.80 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 11:46:24 | 40.03 | 34.13 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 11:46:24 | 40.35 | 34.45 | 1,351 | 0.26 | 0.36 | 73.9 |
| 5/3/2015 11:46:24 | 40.68 | 34.78 | 1,351 | 0.26 | 0.36 | 73.9 |
| 5/3/2015 11:46:24 | 41.01 | 35.11 | 1,351 | 0.26 | 0.37 | 73.9 |
| 5/3/2015 11:46:25 | 41.34 | 35.44 | 1,351 | 0.26 | 0.37 | 73.9 |
| 5/3/2015 11:46:25 | 41.67 | 35.77 | 1,355 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 11:46:25 | 41.99 | 36.09 | 1,355 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 11:46:25 | 42.32 | 36.42 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 11:46:26 | 42.65 | 36.75 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 11:46:26 | 42.98 | 37.08 | 1,327 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 11:46:26 | 43.31 | 37.41 | 1,327 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 11:46:26 | 43.64 | 37.74 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 11:46:27 | 43.96 | 38.06 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 11:46:27 | 44.29 | 38.39 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 11:46:27 | 44.62 | 38.72 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 11:46:27 | 44.95 | 39.05 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 11:46:28 | 45.28 | 39.38 | 1,324 | 0.26 | 0.37 | 72.4 |
| 5/3/2015 11:46:28 | 45.60 | 39.70 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:46:28 | 45.93 | 40.03 | 1,338 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:46:28 | 46.26 | 40.36 | 1,321 | 0.26 | 0.38 | 72.3 |
| 5/3/2015 11:46:29 | 46.59 | 40.69 | 1,321 | 0.26 | 0.38 | 72.3 |
| 5/3/2015 11:46:29 | 46.92 | 41.02 | 1,321 | 0.26 | 0.38 | 72.3 |
| 5/3/2015 11:46:29 | 47.24 | 41.34 | 1,310 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 11:46:30 | 47.57 | 41.67 | 1,310 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 11:46:30 | 47.90 | 42.00 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 11:46:30 | 48.23 | 42.33 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 11:46:30 | 48.56 | 42.66 | 1,303 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 11:46:31 | 48.88 | 42.98 | 1,303 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 11:46:31 | 49.21 | 43.31 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 11:46:31 | 49.54 | 43.64 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 11:46:31 | 49.87 | 43.97 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 11:46:32 | 50.20 | 44.30 | 1,322 | 0.26 | 0.39 | 72.3 |
| 5/3/2015 11:46:32 | 50.53 | 44.63 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 11:46:32 | 50.85 | 44.95 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 11:46:32 | 51.18 | 45.28 | 1,319 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 11:46:33 | 51.51 | 45.61 | 1,319 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 11:46:33 | 51.84 | 45.94 | 1,326 | 0.26 | 0.38 | 72.5 |
| 5/3/2015 11:46:34 | 52.17 | 46.27 | 1,326 | 0.26 | 0.38 | 72.5 |
| 5/3/2015 11:46:33 | 52.49 | 46.59 | 1,310 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 11:46:34 | 52.82 | 46.92 | 1,310 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 11:46:34 | 53.15 | 47.25 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 11:46:35 | 53.48 | 47.58 | 1,318 | 0.26 | 0.37 | 72.1 |
| 5/3/2015 11:46:35 | 53.81 | 47.91 | 1,304 | 0.24 | 0.38 | 71.3 |
| 5/3/2015 11:46:41 | 54.13 | 48.23 | 19 | 4.76 | 0.48 | 1.1 |
| 5/3/2015 11:46:42 | 54.46 | 48.56 | 117 | 3.18 | 0.46 | 6.4 |
| 5/3/2015 11:46:45 | 54.79 | 48.89 | 41 | 3.26 | 0.43 | 2.2 |
| 5/3/2015 11:46:47 | 55.12 | 49.22 | 195 | 3.01 | 0.46 | 10.7 |
| 5/3/2015 11:46:48 | 55.45 | 49.55 | 347 | 3.04 | 0.46 | 19.0 |
| 5/3/2015 11:46:48 | 55.77 | 49.87 | 314 | 4.45 | 0.45 | 17.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:46:56 | 56.10 | 50.20 | 32 | 3.24 | 0.46 | 1.7 |
| 5/3/2015 11:46:58 | 56.43 | 50.53 | 139 | 4.16 | 0.48 | 7.6 |
| 5/3/2015 11:47:00 | 56.76 | 50.86 | 153 | 4.90 | 0.47 | 8.4 |
| 5/3/2015 11:47:02 | 57.09 | 51.19 | 197 | 3.65 | 0.46 | 10.8 |
| 5/3/2015 11:47:03 | 57.41 | 51.51 | 227 | 3.72 | 0.46 | 12.4 |
| 5/3/2015 11:47:04 | 57.74 | 51.84 | 262 | 3.38 | 0.47 | 14.3 |
| 5/3/2015 11:47:35 | 58.07 | 52.17 | 38 | 4.20 | 0.49 | 2.1 |
| 5/3/2015 11:47:36 | 58.40 | 52.50 | 151 | 3.45 | 0.47 | 8.3 |
| 5/3/2015 11:47:37 | 58.73 | 52.83 | 279 | 4.59 | 0.46 | 15.3 |
| 5/3/2015 11:47:47 | 59.06 | 53.16 | 29 | 4.03 | 0.47 | 1.6 |
| 5/3/2015 11:48:23 | 59.38 | 53.48 | 52 | 2.51 | 0.48 | 2.9 |
| 5/3/2015 11:48:29 | 59.71 | 53.81 | 81 | 3.35 | 0.47 | 4.4 |
| 5/3/2015 11:48:33 | 60.04 | 54.14 | 6 | 3.12 | 0.48 | 0.3 |
| 5/3/2015 11:48:44 | 60.37 | 54.47 | 29 | 2.38 | 0.48 | 1.6 |
| 5/3/2015 11:48:55 | 60.66 | 54.76 | 32 | 2.78 | 0.49 | 1.7 |

## P251 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:44:41

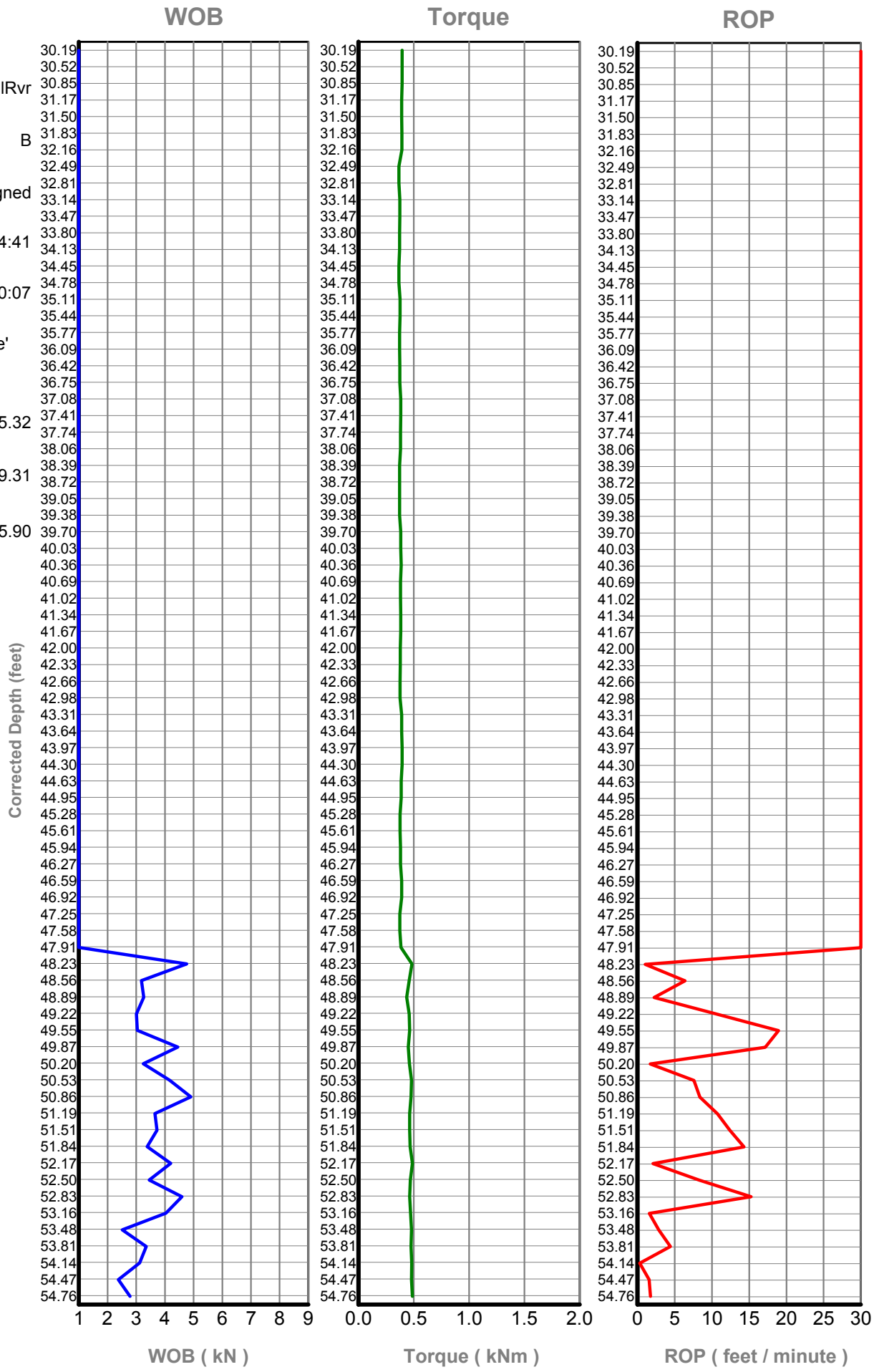
**End Date:**
5/3/2015 11:50:07

**Operator Note:**
'5.9 5.7 b Auto Complete'

**Northing:**
348,795.32

**Easting:**
224,999.31

**Tide (feet):**
5.90



## Hole: P252 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:46:00 | 36.09 | 30.19 | 1,153 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 11:46:01 | 36.42 | 30.52 | 1,153 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 11:46:01 | 36.75 | 30.85 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:46:01 | 37.07 | 31.17 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:46:02 | 37.40 | 31.50 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:46:02 | 37.73 | 31.83 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:46:03 | 38.06 | 32.16 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:46:03 | 38.39 | 32.49 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:46:03 | 38.71 | 32.81 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 11:46:03 | 39.04 | 33.14 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:46:04 | 39.37 | 33.47 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:46:04 | 39.70 | 33.80 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:46:04 | 40.03 | 34.13 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:05 | 40.35 | 34.45 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:05 | 40.68 | 34.78 | 1,142 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:46:05 | 41.01 | 35.11 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:46:06 | 41.34 | 35.44 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:46:06 | 41.67 | 35.77 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 11:46:06 | 41.99 | 36.09 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:46:07 | 42.32 | 36.42 | 1,150 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:46:07 | 42.65 | 36.75 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:46:07 | 42.98 | 37.08 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 11:46:07 | 43.31 | 37.41 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:46:08 | 43.64 | 37.74 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:08 | 43.96 | 38.06 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:08 | 44.29 | 38.39 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:46:09 | 44.62 | 38.72 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 11:46:09 | 44.95 | 39.05 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 11:46:09 | 45.28 | 39.38 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:46:10 | 45.60 | 39.70 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:46:10 | 45.93 | 40.03 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:46:10 | 46.26 | 40.36 | 1,121 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:46:10 | 46.59 | 40.69 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:46:11 | 46.92 | 41.02 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:11 | 47.24 | 41.34 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:11 | 47.57 | 41.67 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:12 | 47.90 | 42.00 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:12 | 48.23 | 42.33 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:12 | 48.56 | 42.66 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:46:13 | 48.88 | 42.98 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 11:46:13 | 49.21 | 43.31 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:46:13 | 49.54 | 43.64 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 11:46:14 | 49.87 | 43.97 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:14 | 50.20 | 44.30 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:15 | 50.53 | 44.63 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:15 | 50.85 | 44.95 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 11:46:15 | 51.18 | 45.28 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:16 | 51.51 | 45.61 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:46:29 | 51.84 | 45.94 | 14 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 11:46:41 | 52.17 | 46.27 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 11:46:54 | 52.49 | 46.59 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 11:47:05 | 52.82 | 46.92 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 11:47:16 | 53.15 | 47.25 | 32 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 11:47:18 | 53.22 | 47.32 | 32 | 1.14 | 0.29 | 1.7 |

## P252 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:44:42

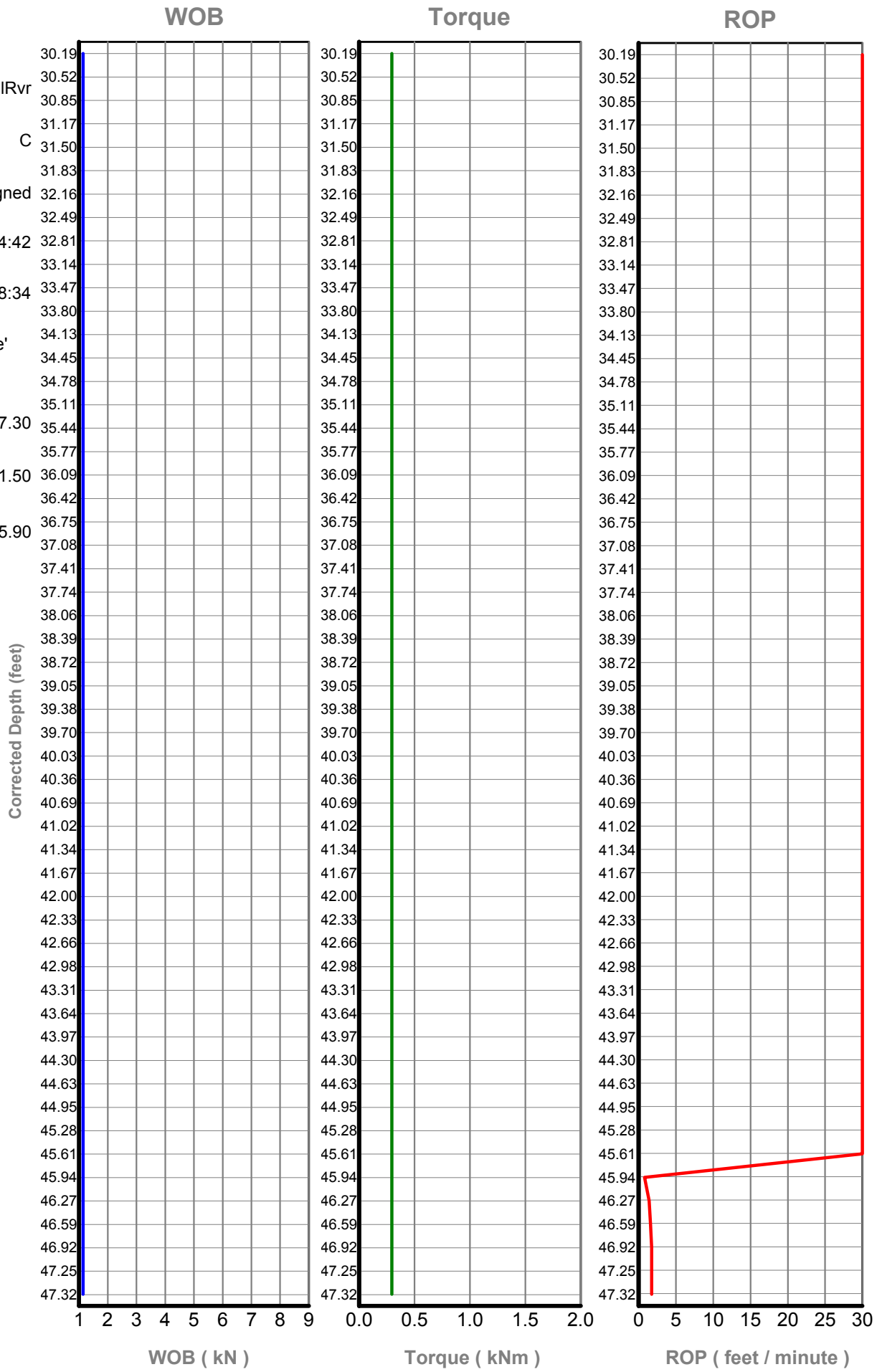
**End Date:**
5/3/2015 11:48:34

**Operator Note:**
'5.9 5.7 c Auto Complete'

**Northing:**
348,837.30

**Easting:**
225,061.50

**Tide (feet):**
5.90



## Hole: P253 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:03:07 | 37.40 | 30.30 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 1:03:07 | 37.73 | 30.63 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 1:03:07 | 38.06 | 30.96 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 1:03:08 | 38.39 | 31.29 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 1:03:08 | 38.71 | 31.61 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 1:03:09 | 39.04 | 31.94 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 1:03:09 | 39.37 | 32.27 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:03:09 | 39.70 | 32.60 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 1:03:09 | 40.03 | 32.93 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:03:10 | 40.35 | 33.25 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:03:10 | 40.68 | 33.58 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:03:10 | 41.01 | 33.91 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 1:03:10 | 41.34 | 34.24 | 1,223 | 0.54 | 0.17 | 66.9 |
| 5/3/2015 1:03:11 | 41.67 | 34.57 | 1,213 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:03:11 | 41.99 | 34.89 | 1,213 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 1:03:11 | 42.32 | 35.22 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 1:03:23 | 42.65 | 35.55 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 1:03:24 | 42.98 | 35.88 | 132 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 1:03:24 | 43.31 | 36.21 | 132 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 1:03:24 | 43.64 | 36.54 | 361 | 0.54 | 0.17 | 19.7 |
| 5/3/2015 1:03:25 | 43.96 | 36.86 | 361 | 0.54 | 0.17 | 19.7 |
| 5/3/2015 1:03:25 | 44.29 | 37.19 | 599 | 0.54 | 0.17 | 32.8 |
| 5/3/2015 1:03:25 | 44.62 | 37.52 | 831 | 0.54 | 0.17 | 45.4 |
| 5/3/2015 1:03:26 | 44.95 | 37.85 | 831 | 0.54 | 0.17 | 45.4 |
| 5/3/2015 1:03:26 | 45.28 | 38.18 | 1,069 | 0.54 | 0.17 | 58.5 |
| 5/3/2015 1:03:26 | 45.60 | 38.50 | 1,069 | 0.54 | 0.17 | 58.5 |
| 5/3/2015 1:03:26 | 45.93 | 38.83 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 1:03:27 | 46.26 | 39.16 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 1:03:27 | 46.59 | 39.49 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 1:03:27 | 46.92 | 39.82 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:28 | 47.24 | 40.14 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:28 | 47.57 | 40.47 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 1:03:28 | 47.90 | 40.80 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 1:03:28 | 48.23 | 41.13 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:29 | 48.56 | 41.46 | 1,180 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:29 | 48.88 | 41.78 | 1,180 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:29 | 49.21 | 42.11 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:30 | 49.54 | 42.44 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:30 | 49.87 | 42.77 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 1:03:30 | 50.20 | 43.10 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 1:03:31 | 50.53 | 43.43 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 1:03:31 | 50.85 | 43.75 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:32 | 51.18 | 44.08 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:32 | 51.51 | 44.41 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:32 | 51.84 | 44.74 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 1:03:32 | 52.17 | 45.07 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:33 | 52.49 | 45.39 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:33 | 52.82 | 45.72 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:03:33 | 53.15 | 46.05 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 1:05:26 | 53.48 | 46.38 | 38 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 1:05:35 | 53.81 | 46.71 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 1:05:45 | 54.13 | 47.03 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 1:05:57 | 54.46 | 47.36 | 20 | 0.54 | 0.17 | 1.1 |

## P253 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:53:46

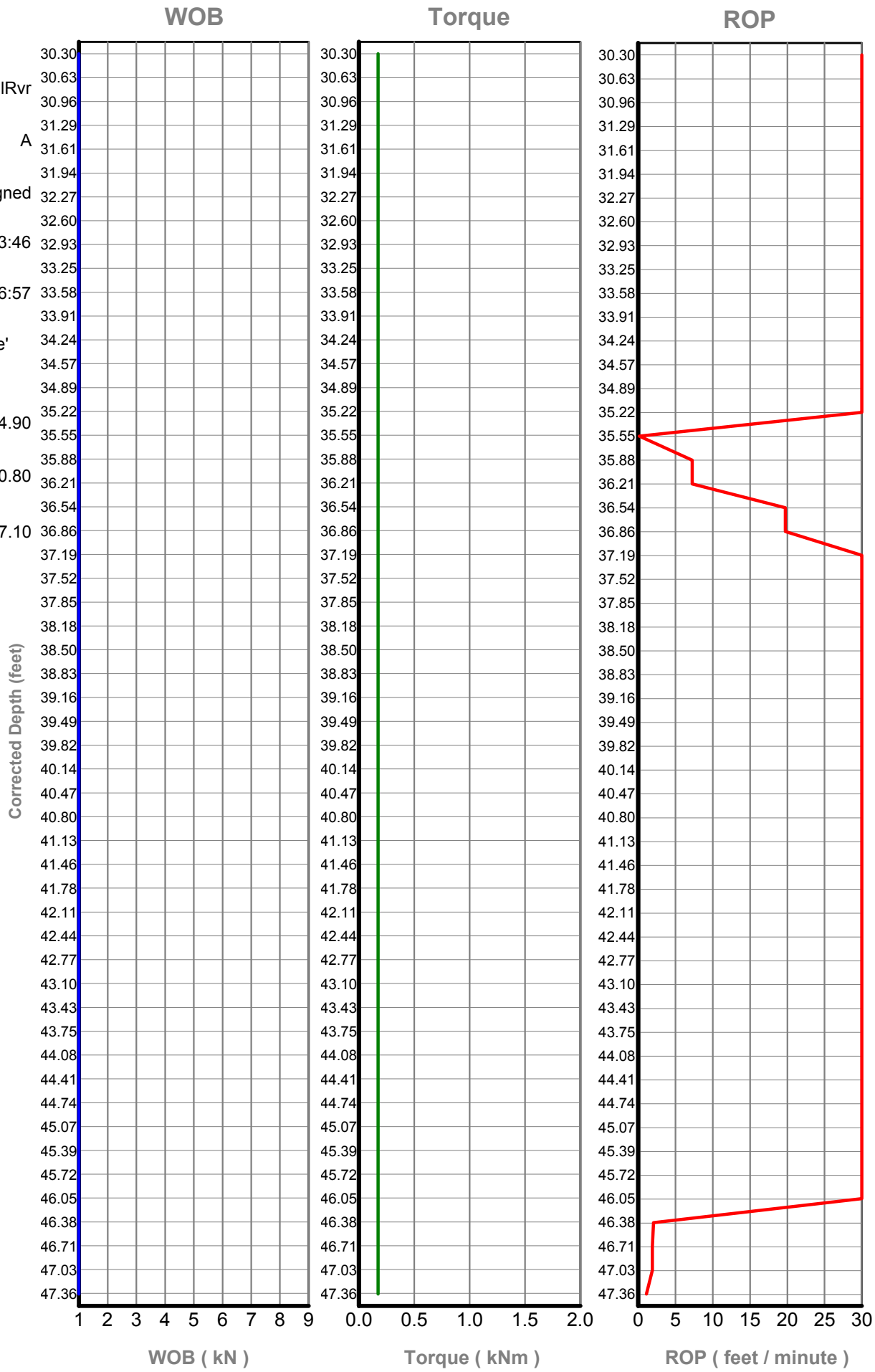
**End Date:**
5/3/2015 1:06:57

**Operator Note:**
'7.1 7.1 a Auto Complete'

**Northing:**
348,874.90

**Easting:**
225,120.80

**Tide (feet):**
7.10



## Hole: P254 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:02:45 | 37.40 | 30.30 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/3/2015 1:02:45 | 37.73 | 30.63 | 1,236 | 0.31 | 0.40 | 67.6 |
| 5/3/2015 1:02:45 | 38.06 | 30.96 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 1:02:46 | 38.39 | 31.29 | 1,233 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:02:46 | 38.71 | 31.61 | 1,233 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:02:46 | 39.04 | 31.94 | 1,248 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 1:02:47 | 39.37 | 32.27 | 1,248 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 1:02:47 | 39.70 | 32.60 | 1,237 | 0.31 | 0.40 | 67.7 |
| 5/3/2015 1:02:47 | 40.03 | 32.93 | 1,237 | 0.31 | 0.40 | 67.7 |
| 5/3/2015 1:02:47 | 40.35 | 33.25 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 1:02:48 | 40.68 | 33.58 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 1:02:48 | 41.01 | 33.91 | 1,222 | 0.36 | 0.39 | 66.8 |
| 5/3/2015 1:02:48 | 41.34 | 34.24 | 1,206 | 0.31 | 0.39 | 65.9 |
| 5/3/2015 1:02:49 | 41.67 | 34.57 | 1,206 | 0.31 | 0.39 | 65.9 |
| 5/3/2015 1:02:49 | 41.99 | 34.89 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 1:02:50 | 42.32 | 35.22 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 1:02:50 | 42.65 | 35.55 | 1,225 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 1:02:50 | 42.98 | 35.88 | 1,225 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 1:02:50 | 43.31 | 36.21 | 1,218 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 1:02:51 | 43.64 | 36.54 | 1,218 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 1:02:51 | 43.96 | 36.86 | 1,221 | 0.31 | 0.39 | 66.8 |
| 5/3/2015 1:02:51 | 44.29 | 37.19 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:02:52 | 44.62 | 37.52 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 1:02:52 | 44.95 | 37.85 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 1:02:52 | 45.28 | 38.18 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 1:02:52 | 45.60 | 38.50 | 1,224 | 0.30 | 0.40 | 67.0 |
| 5/3/2015 1:02:53 | 45.93 | 38.83 | 1,224 | 0.30 | 0.40 | 67.0 |
| 5/3/2015 1:02:53 | 46.26 | 39.16 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 1:02:53 | 46.59 | 39.49 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 1:02:53 | 46.92 | 39.82 | 1,232 | 0.30 | 0.38 | 67.4 |
| 5/3/2015 1:02:54 | 47.24 | 40.14 | 1,232 | 0.30 | 0.38 | 67.4 |
| 5/3/2015 1:02:54 | 47.57 | 40.47 | 1,232 | 0.30 | 0.38 | 67.4 |
| 5/3/2015 1:02:54 | 47.90 | 40.80 | 1,235 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 1:02:55 | 48.23 | 41.13 | 1,235 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 1:02:55 | 48.56 | 41.46 | 1,238 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 1:02:55 | 48.88 | 41.78 | 1,238 | 0.31 | 0.39 | 67.7 |
| 5/3/2015 1:02:55 | 49.21 | 42.11 | 1,249 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:02:56 | 49.54 | 42.44 | 1,249 | 0.30 | 0.39 | 68.3 |
| 5/3/2015 1:02:56 | 49.87 | 42.77 | 1,231 | 0.26 | 0.39 | 67.3 |
| 5/3/2015 1:02:56 | 50.20 | 43.10 | 1,224 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 1:02:57 | 50.53 | 43.43 | 1,224 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 1:02:57 | 50.85 | 43.75 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:02:57 | 51.18 | 44.08 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 1:02:57 | 51.51 | 44.41 | 1,223 | 0.29 | 0.39 | 66.9 |
| 5/3/2015 1:02:58 | 51.84 | 44.74 | 1,223 | 0.29 | 0.39 | 66.9 |
| 5/3/2015 1:02:58 | 52.17 | 45.07 | 1,216 | 0.31 | 0.39 | 66.5 |
| 5/3/2015 1:02:59 | 52.49 | 45.39 | 1,223 | 0.30 | 0.38 | 66.9 |
| 5/3/2015 1:02:59 | 52.82 | 45.72 | 1,223 | 0.30 | 0.38 | 66.9 |
| 5/3/2015 1:02:59 | 53.15 | 46.05 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 1:02:59 | 53.48 | 46.38 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 1:02:59 | 53.81 | 46.71 | 1,206 | 0.31 | 0.40 | 65.9 |
| 5/3/2015 1:03:00 | 54.13 | 47.03 | 1,206 | 0.31 | 0.40 | 65.9 |
| 5/3/2015 1:03:00 | 54.46 | 47.36 | 1,214 | 0.30 | 0.38 | 66.4 |
| 5/3/2015 1:03:01 | 54.79 | 47.69 | 1,214 | 0.30 | 0.38 | 66.4 |
| 5/3/2015 1:03:01 | 55.12 | 48.02 | 1,201 | 0.31 | 0.39 | 65.7 |
| 5/3/2015 1:03:01 | 55.45 | 48.35 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 1:03:02 | 55.77 | 48.67 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 1:03:02 | 56.10 | 49.00 | 1,213 | 0.31 | 0.39 | 66.3 |
| 5/3/2015 1:03:02 | 56.43 | 49.33 | 1,213 | 0.31 | 0.39 | 66.3 |
| 5/3/2015 1:03:02 | 56.76 | 49.66 | 1,222 | 0.29 | 0.46 | 66.8 |
| 5/3/2015 1:03:09 | 57.09 | 49.99 | 59 | 4.43 | 0.49 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:03:11 | 57.41 | 50.31 | 175 | 3.78 | 0.47 | 9.6 |
| 5/3/2015 | 1:03:14 | 57.74 | 50.64 | 130 | 4.84 | 0.48 | 7.1 |
| 5/3/2015 | 1:03:16 | 58.07 | 50.97 | 123 | 3.91 | 0.46 | 6.7 |
| 5/3/2015 | 1:03:17 | 58.40 | 51.30 | 191 | 3.37 | 0.45 | 10.5 |
| 5/3/2015 | 1:03:18 | 58.73 | 51.63 | 372 | 3.45 | 0.49 | 20.4 |
| 5/3/2015 | 1:03:25 | 59.06 | 51.96 | 45 | 3.17 | 0.49 | 2.4 |
| 5/3/2015 | 1:03:34 | 59.38 | 52.28 | 37 | 2.86 | 0.48 | 2.0 |
| 5/3/2015 | 1:03:44 | 59.71 | 52.61 | 40 | 3.11 | 0.49 | 2.2 |
| 5/3/2015 | 1:03:51 | 59.99 | 52.89 | 38 | 2.78 | 0.48 | 2.1 |

## P254 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:01:14

**End Date:**
5/3/2015 1:05:36

**Operator Note:**
'7.1 7.1b Auto Complete'

**Northing:**
348,912.10

**Easting:**
225,185.90

**Tide (feet):**
7.10



## Hole: P255 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 1:01:28 | 37.40 | 30.30 | 1,037 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:01:28 | 37.73 | 30.63 | 1,025 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:01:28 | 38.06 | 30.96 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:29 | 38.39 | 31.29 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:29 | 38.71 | 31.61 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 1:01:29 | 39.04 | 31.94 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:30 | 39.37 | 32.27 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:30 | 39.70 | 32.60 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:30 | 40.03 | 32.93 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:01:31 | 40.35 | 33.25 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 1:01:31 | 40.68 | 33.58 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 1:01:31 | 41.01 | 33.91 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:01:32 | 41.34 | 34.24 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 1:01:32 | 41.67 | 34.57 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 1:01:32 | 41.99 | 34.89 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 1:01:33 | 42.32 | 35.22 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 1:01:33 | 42.65 | 35.55 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:33 | 42.98 | 35.88 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:34 | 43.31 | 36.21 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:34 | 43.64 | 36.54 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 1:01:34 | 43.96 | 36.86 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 1:01:35 | 44.29 | 37.19 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 1:01:35 | 44.62 | 37.52 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 1:01:36 | 44.95 | 37.85 | 1,029 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 1:01:35 | 45.28 | 38.18 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 1:01:36 | 45.60 | 38.50 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 1:01:37 | 45.93 | 38.83 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 1:01:36 | 46.26 | 39.16 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:37 | 46.59 | 39.49 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:38 | 46.92 | 39.82 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:38 | 47.24 | 40.14 | 1,031 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 1:01:38 | 47.57 | 40.47 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:39 | 47.90 | 40.80 | 1,054 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 1:01:39 | 48.23 | 41.13 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:39 | 48.56 | 41.46 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 1:01:40 | 48.88 | 41.78 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 1:01:40 | 49.21 | 42.11 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 1:01:40 | 49.54 | 42.44 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 1:01:41 | 49.87 | 42.77 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 1:01:41 | 50.20 | 43.10 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 1:01:41 | 50.53 | 43.43 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:42 | 50.85 | 43.75 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:42 | 51.18 | 44.08 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 1:01:42 | 51.51 | 44.41 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 1:01:43 | 51.84 | 44.74 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 1:01:43 | 52.17 | 45.07 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 1:01:43 | 52.49 | 45.39 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 1:01:44 | 52.82 | 45.72 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 1:01:44 | 53.15 | 46.05 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:01:44 | 53.48 | 46.38 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:01:45 | 53.81 | 46.71 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 1:01:45 | 54.13 | 47.03 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:45 | 54.46 | 47.36 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 1:01:46 | 54.79 | 47.69 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 1:01:46 | 55.12 | 48.02 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 1:01:46 | 55.45 | 48.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 1:01:47 | 55.77 | 48.67 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 1:01:47 | 56.10 | 49.00 | 1,040 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 1:01:47 | 56.43 | 49.33 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/3/2015 1:01:48 | 56.76 | 49.66 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/3/2015 1:01:48 | 57.09 | 49.99 | 1,006 | 1.14 | 0.29 | 55.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 1:01:49 | 57.41 | 50.31 | 993 | 1.14 | 0.29 | 54.3 |
| 5/3/2015 | 1:01:49 | 57.74 | 50.64 | 982 | 1.14 | 0.29 | 53.7 |
| 5/3/2015 | 1:01:50 | 58.07 | 50.97 | 938 | 1.14 | 0.29 | 51.3 |
| 5/3/2015 | 1:02:07 | 58.40 | 51.30 | 112 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 | 1:02:08 | 58.73 | 51.63 | 243 | 1.14 | 0.29 | 13.3 |
| 5/3/2015 | 1:02:08 | 59.06 | 51.96 | 387 | 1.14 | 0.29 | 21.2 |
| 5/3/2015 | 1:02:09 | 59.38 | 52.28 | 514 | 1.14 | 0.29 | 28.1 |
| 5/3/2015 | 1:02:09 | 59.71 | 52.61 | 619 | 1.14 | 0.29 | 33.9 |
| 5/3/2015 | 1:02:10 | 60.04 | 52.94 | 643 | 1.14 | 0.29 | 35.1 |
| 5/3/2015 | 1:02:10 | 60.37 | 53.27 | 632 | 1.14 | 0.29 | 34.6 |
| 5/3/2015 | 1:02:11 | 60.70 | 53.60 | 593 | 1.14 | 0.29 | 32.5 |
| 5/3/2015 | 1:02:12 | 61.02 | 53.92 | 588 | 1.14 | 0.29 | 32.1 |
| 5/3/2015 | 1:02:13 | 61.35 | 54.25 | 582 | 1.14 | 0.29 | 31.8 |
| 5/3/2015 | 1:02:13 | 61.68 | 54.58 | 590 | 1.14 | 0.29 | 32.3 |
| 5/3/2015 | 1:02:14 | 62.01 | 54.91 | 630 | 1.14 | 0.29 | 34.4 |
| 5/3/2015 | 1:02:14 | 62.34 | 55.24 | 646 | 1.14 | 0.29 | 35.3 |
| 5/3/2015 | 1:02:14 | 62.61 | 55.51 | 646 | 1.14 | 0.29 | 35.3 |

## P255 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 1:00:12

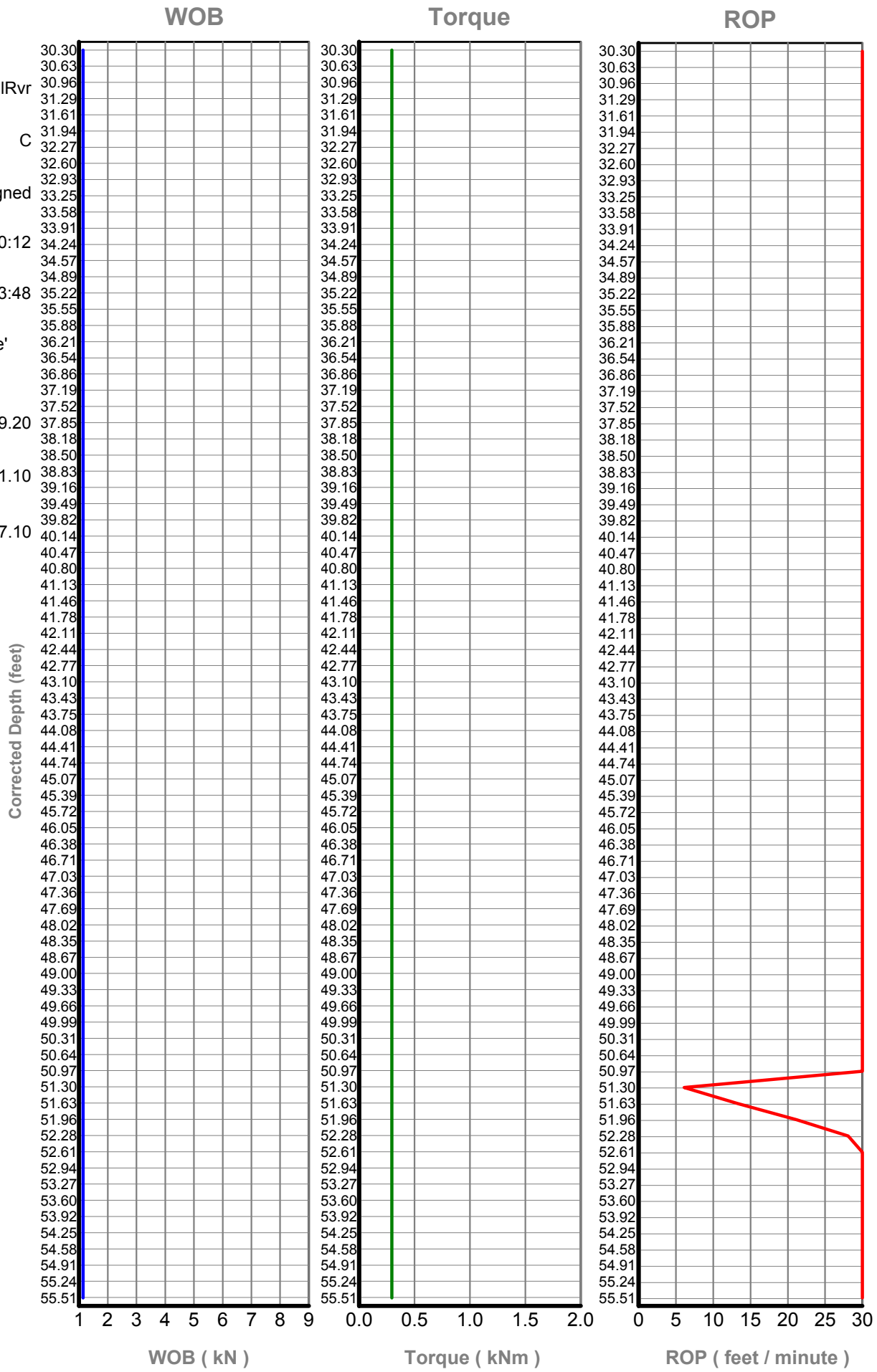
**End Date:**
5/3/2015 1:03:48

**Operator Note:**
'7.1 7.1 c Auto Complete'

**Northing:**
348,949.20

**Easting:**
225,251.10

**Tide (feet):**
7.10



## Hole: P256 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:39:20 | 37.07 | 30.07 | 1,197 | 0.54 | 0.17 | 65.4 |
| 5/2/2015 23:39:20 | 37.40 | 30.40 | 1,207 | 0.54 | 0.17 | 66.0 |
| 5/2/2015 23:39:21 | 37.73 | 30.73 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:21 | 38.06 | 31.06 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:21 | 38.39 | 31.39 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 23:39:22 | 38.71 | 31.71 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 23:39:22 | 39.04 | 32.04 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/2/2015 23:39:22 | 39.37 | 32.37 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/2/2015 23:39:22 | 39.70 | 32.70 | 1,210 | 0.54 | 0.17 | 66.2 |
| 5/2/2015 23:39:23 | 40.03 | 33.03 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/2/2015 23:39:23 | 40.35 | 33.35 | 1,200 | 0.54 | 0.17 | 65.6 |
| 5/2/2015 23:39:23 | 40.68 | 33.68 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:24 | 41.01 | 34.01 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:24 | 41.34 | 34.34 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:24 | 41.67 | 34.67 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/2/2015 23:39:24 | 41.99 | 34.99 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/2/2015 23:39:25 | 42.32 | 35.32 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/2/2015 23:39:43 | 42.65 | 35.65 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:39:51 | 42.98 | 35.98 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 23:39:44 | 43.31 | 36.31 | 240 | 0.54 | 0.17 | 13.1 |
| 5/2/2015 23:39:44 | 43.64 | 36.64 | 510 | 0.54 | 0.17 | 27.9 |
| 5/2/2015 23:39:45 | 43.96 | 36.96 | 510 | 0.54 | 0.17 | 27.9 |
| 5/2/2015 23:39:45 | 44.29 | 37.29 | 778 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 23:39:45 | 44.62 | 37.62 | 778 | 0.54 | 0.17 | 42.6 |
| 5/2/2015 23:39:45 | 44.95 | 37.95 | 1,038 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 23:39:46 | 45.28 | 38.28 | 1,038 | 0.54 | 0.17 | 56.8 |
| 5/2/2015 23:39:46 | 45.60 | 38.60 | 1,306 | 0.54 | 0.17 | 71.4 |
| 5/2/2015 23:39:46 | 45.93 | 38.93 | 1,306 | 0.54 | 0.17 | 71.4 |
| 5/2/2015 23:39:46 | 46.26 | 39.26 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 23:39:47 | 46.59 | 39.59 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 23:39:47 | 46.92 | 39.92 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/2/2015 23:39:47 | 47.24 | 40.24 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/2/2015 23:39:47 | 47.57 | 40.57 | 1,287 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 23:39:48 | 47.90 | 40.90 | 1,287 | 0.54 | 0.17 | 70.4 |
| 5/2/2015 23:39:48 | 48.23 | 41.23 | 1,301 | 0.54 | 0.17 | 71.1 |
| 5/2/2015 23:39:48 | 48.56 | 41.56 | 1,301 | 0.54 | 0.17 | 71.1 |
| 5/2/2015 23:39:48 | 48.88 | 41.88 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 23:39:49 | 49.21 | 42.21 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 23:39:49 | 49.54 | 42.54 | 1,295 | 0.54 | 0.17 | 70.8 |
| 5/2/2015 23:39:49 | 49.87 | 42.87 | 1,292 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 23:39:50 | 50.20 | 43.20 | 1,292 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 23:39:50 | 50.53 | 43.53 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 23:39:50 | 50.85 | 43.85 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 23:39:50 | 51.18 | 44.18 | 1,304 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:51 | 51.51 | 44.51 | 1,304 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:51 | 51.84 | 44.84 | 1,308 | 0.54 | 0.17 | 71.5 |
| 5/2/2015 23:39:51 | 52.17 | 45.17 | 1,308 | 0.54 | 0.17 | 71.5 |
| 5/2/2015 23:39:51 | 52.49 | 45.49 | 1,304 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:52 | 52.82 | 45.82 | 1,304 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:52 | 53.15 | 46.15 | 1,311 | 0.54 | 0.17 | 71.7 |
| 5/2/2015 23:39:52 | 53.48 | 46.48 | 1,311 | 0.54 | 0.17 | 71.7 |
| 5/2/2015 23:39:52 | 53.81 | 46.81 | 1,309 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 23:39:53 | 54.13 | 47.13 | 1,309 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 23:39:53 | 54.46 | 47.46 | 1,303 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:53 | 54.79 | 47.79 | 1,303 | 0.54 | 0.17 | 71.3 |
| 5/2/2015 23:39:53 | 55.12 | 48.12 | 1,300 | 0.54 | 0.17 | 71.1 |
| 5/2/2015 23:39:54 | 55.45 | 48.45 | 1,291 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 23:39:55 | 55.77 | 48.77 | 1,291 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 23:39:55 | 56.10 | 49.10 | 1,289 | 0.54 | 0.17 | 70.5 |
| 5/2/2015 23:39:55 | 56.43 | 49.43 | 1,289 | 0.54 | 0.17 | 70.5 |
| 5/2/2015 23:39:55 | 56.76 | 49.76 | 1,278 | 0.54 | 0.17 | 69.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:39:56 | 57.09 | 50.09 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/2/2015 | 23:39:56 | 57.41 | 50.41 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 | 23:39:56 | 57.74 | 50.74 | 1,279 | 0.54 | 0.17 | 70.0 |
| 5/2/2015 | 23:39:56 | 58.07 | 51.07 | 1,260 | 0.54 | 0.17 | 68.9 |
| 5/2/2015 | 23:39:57 | 58.40 | 51.40 | 1,260 | 0.54 | 0.17 | 68.9 |
| 5/2/2015 | 23:39:57 | 58.73 | 51.73 | 1,259 | 0.54 | 0.17 | 68.8 |
| 5/2/2015 | 23:39:57 | 59.06 | 52.06 | 1,231 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 | 23:39:58 | 59.38 | 52.38 | 1,231 | 0.54 | 0.17 | 67.3 |
| 5/2/2015 | 23:39:58 | 59.71 | 52.71 | 1,215 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 | 23:39:58 | 60.04 | 53.04 | 1,215 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 | 23:39:58 | 60.37 | 53.37 | 1,189 | 0.54 | 0.17 | 65.0 |
| 5/2/2015 | 23:39:59 | 60.70 | 53.70 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 | 23:40:36 | 61.02 | 54.02 | 97 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 23:40:36 | 61.35 | 54.35 | 97 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 23:40:36 | 61.68 | 54.68 | 308 | 0.54 | 0.17 | 16.9 |
| 5/2/2015 | 23:40:37 | 62.01 | 55.01 | 435 | 0.54 | 0.17 | 23.8 |
| 5/2/2015 | 23:40:38 | 62.34 | 55.34 | 535 | 0.54 | 0.17 | 29.3 |
| 5/2/2015 | 23:40:38 | 62.66 | 55.66 | 594 | 0.54 | 0.17 | 32.5 |
| 5/2/2015 | 23:40:39 | 62.99 | 55.99 | 520 | 0.54 | 0.17 | 28.4 |
| 5/2/2015 | 23:40:40 | 63.32 | 56.32 | 490 | 0.54 | 0.17 | 26.8 |
| 5/2/2015 | 23:40:40 | 63.39 | 56.39 | 490 | 0.54 | 0.17 | 26.8 |

## P256 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:31:28

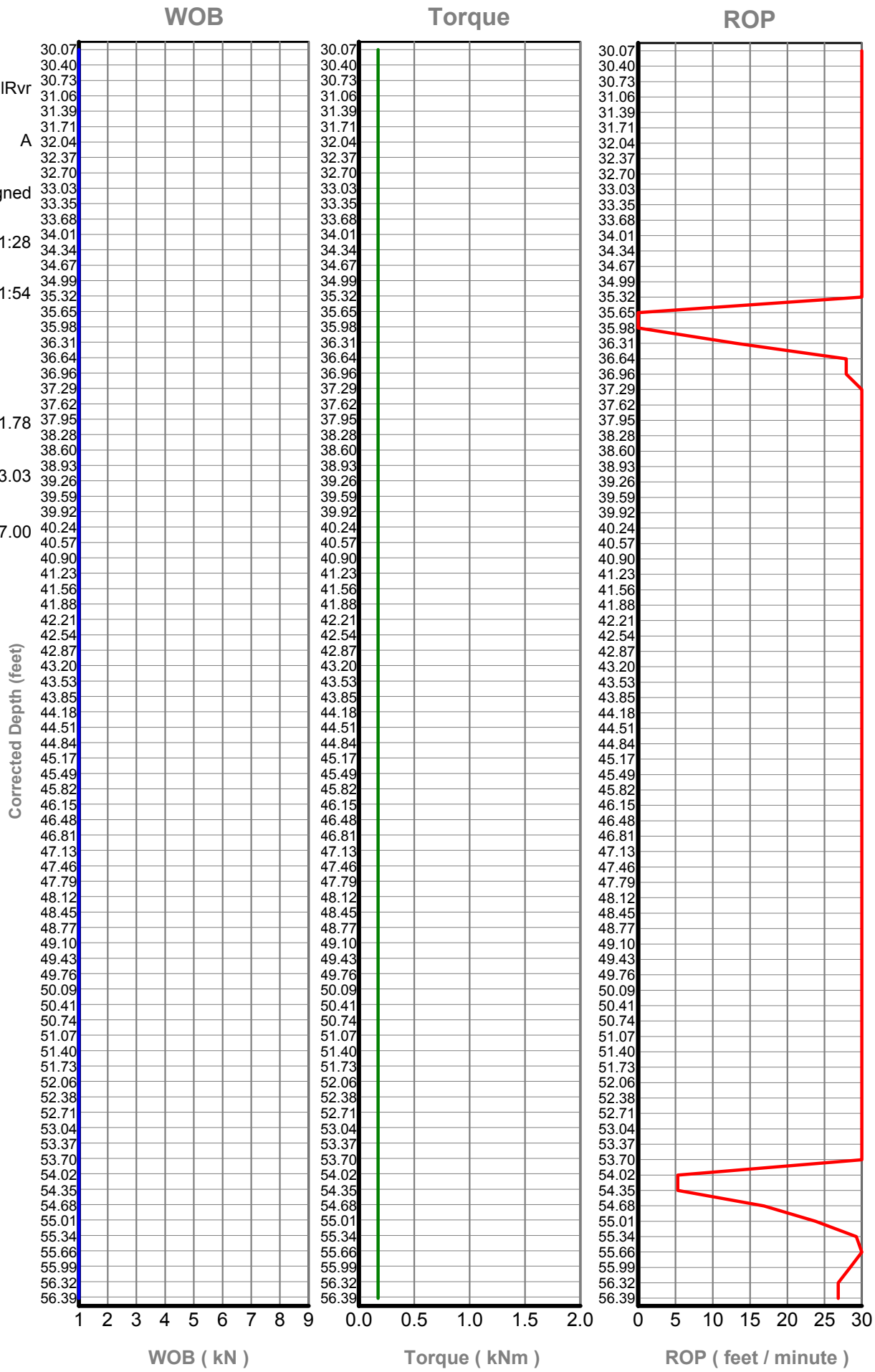
**End Date:**
5/2/2015 23:41:54

**Operator Note:**
'7 7 a Auto Complete'

**Northing:**
348,991.78

**Easting:**
225,313.03

**Tide (feet):**
7.00



## Hole: P257 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:40:12 | 37.07 | 30.07 | 1,195 | 0.31 | 0.39 | 65.4 |
| 5/2/2015 23:40:13 | 37.40 | 30.40 | 1,195 | 0.31 | 0.39 | 65.4 |
| 5/2/2015 23:40:13 | 37.73 | 30.73 | 1,213 | 0.31 | 0.39 | 66.3 |
| 5/2/2015 23:40:13 | 38.06 | 31.06 | 1,213 | 0.30 | 0.38 | 66.3 |
| 5/2/2015 23:40:14 | 38.39 | 31.39 | 1,213 | 0.30 | 0.38 | 66.3 |
| 5/2/2015 23:40:14 | 38.71 | 31.71 | 1,232 | 0.32 | 0.40 | 67.3 |
| 5/2/2015 23:40:14 | 39.04 | 32.04 | 1,232 | 0.32 | 0.40 | 67.3 |
| 5/2/2015 23:40:14 | 39.37 | 32.37 | 1,236 | 0.33 | 0.40 | 67.6 |
| 5/2/2015 23:40:15 | 39.70 | 32.70 | 1,236 | 0.33 | 0.40 | 67.6 |
| 5/2/2015 23:40:15 | 40.03 | 33.03 | 1,263 | 0.35 | 0.39 | 69.1 |
| 5/2/2015 23:40:15 | 40.35 | 33.35 | 1,263 | 0.35 | 0.39 | 69.1 |
| 5/2/2015 23:40:15 | 40.68 | 33.68 | 1,254 | 0.35 | 0.39 | 68.6 |
| 5/2/2015 23:40:16 | 41.01 | 34.01 | 1,231 | 0.31 | 0.38 | 67.3 |
| 5/2/2015 23:40:16 | 41.34 | 34.34 | 1,231 | 0.31 | 0.38 | 67.3 |
| 5/2/2015 23:40:16 | 41.67 | 34.67 | 1,230 | 0.31 | 0.38 | 67.3 |
| 5/2/2015 23:40:17 | 41.99 | 34.99 | 1,230 | 0.31 | 0.38 | 67.3 |
| 5/2/2015 23:40:17 | 42.32 | 35.32 | 1,253 | 0.30 | 0.40 | 68.5 |
| 5/2/2015 23:40:17 | 42.65 | 35.65 | 1,253 | 0.30 | 0.40 | 68.5 |
| 5/2/2015 23:40:17 | 42.98 | 35.98 | 1,245 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:40:18 | 43.31 | 36.31 | 1,245 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:40:18 | 43.64 | 36.64 | 1,251 | 0.31 | 0.38 | 68.4 |
| 5/2/2015 23:40:18 | 43.96 | 36.96 | 1,251 | 0.31 | 0.38 | 68.4 |
| 5/2/2015 23:40:18 | 44.29 | 37.29 | 1,270 | 0.31 | 0.38 | 69.4 |
| 5/2/2015 23:40:19 | 44.62 | 37.62 | 1,279 | 0.31 | 0.40 | 70.0 |
| 5/2/2015 23:40:19 | 44.95 | 37.95 | 1,279 | 0.31 | 0.40 | 70.0 |
| 5/2/2015 23:40:19 | 45.28 | 38.28 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 23:40:20 | 45.60 | 38.60 | 1,263 | 0.31 | 0.38 | 69.1 |
| 5/2/2015 23:40:20 | 45.93 | 38.93 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:40:20 | 46.26 | 39.26 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:40:20 | 46.59 | 39.59 | 1,260 | 0.31 | 0.38 | 68.9 |
| 5/2/2015 23:40:21 | 46.92 | 39.92 | 1,260 | 0.31 | 0.38 | 68.9 |
| 5/2/2015 23:40:21 | 47.24 | 40.24 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 23:40:21 | 47.57 | 40.57 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 23:40:21 | 47.90 | 40.90 | 1,260 | 0.31 | 0.38 | 68.9 |
| 5/2/2015 23:40:22 | 48.23 | 41.23 | 1,257 | 0.31 | 0.39 | 68.8 |
| 5/2/2015 23:40:23 | 48.56 | 41.56 | 1,257 | 0.31 | 0.39 | 68.8 |
| 5/2/2015 23:40:22 | 48.88 | 41.88 | 1,253 | 0.31 | 0.40 | 68.5 |
| 5/2/2015 23:40:23 | 49.21 | 42.21 | 1,253 | 0.31 | 0.40 | 68.5 |
| 5/2/2015 23:40:23 | 49.54 | 42.54 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:40:24 | 49.87 | 42.87 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:40:24 | 50.20 | 43.20 | 1,255 | 0.31 | 0.39 | 68.6 |
| 5/2/2015 23:40:24 | 50.53 | 43.53 | 1,255 | 0.31 | 0.39 | 68.6 |
| 5/2/2015 23:40:24 | 50.85 | 43.85 | 1,252 | 0.31 | 0.39 | 68.4 |
| 5/2/2015 23:40:25 | 51.18 | 44.18 | 1,252 | 0.31 | 0.39 | 68.4 |
| 5/2/2015 23:40:25 | 51.51 | 44.51 | 1,252 | 0.31 | 0.39 | 68.4 |
| 5/2/2015 23:40:25 | 51.84 | 44.84 | 1,252 | 0.31 | 0.39 | 68.4 |
| 5/2/2015 23:40:26 | 52.17 | 45.17 | 1,252 | 0.31 | 0.39 | 68.4 |
| 5/2/2015 23:40:26 | 52.49 | 45.49 | 1,252 | 0.32 | 0.39 | 68.4 |
| 5/2/2015 23:40:26 | 52.82 | 45.82 | 1,252 | 0.32 | 0.39 | 68.4 |
| 5/2/2015 23:40:26 | 53.15 | 46.15 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/2/2015 23:40:27 | 53.48 | 46.48 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/2/2015 23:40:27 | 53.81 | 46.81 | 1,241 | 0.33 | 0.38 | 67.9 |
| 5/2/2015 23:40:27 | 54.13 | 47.13 | 1,241 | 0.33 | 0.38 | 67.9 |
| 5/2/2015 23:40:27 | 54.46 | 47.46 | 1,252 | 0.31 | 0.40 | 68.4 |
| 5/2/2015 23:40:28 | 54.79 | 47.79 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:40:28 | 55.12 | 48.12 | 1,246 | 0.31 | 0.40 | 68.1 |
| 5/2/2015 23:40:28 | 55.45 | 48.45 | 1,240 | 0.31 | 0.39 | 67.8 |
| 5/2/2015 23:40:29 | 55.77 | 48.77 | 1,240 | 0.31 | 0.39 | 67.8 |
| 5/2/2015 23:40:29 | 56.10 | 49.10 | 1,222 | 0.31 | 0.40 | 66.8 |
| 5/2/2015 23:40:29 | 56.43 | 49.43 | 1,222 | 0.31 | 0.40 | 66.8 |
| 5/2/2015 23:40:29 | 56.76 | 49.76 | 1,215 | 0.31 | 0.39 | 66.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:40:30 | 57.09 | 50.09 | 1,188 | 0.33 | 0.39 | 65.0 |
| 5/2/2015 | 23:40:30 | 57.41 | 50.41 | 1,188 | 0.33 | 0.39 | 65.0 |
| 5/2/2015 | 23:40:30 | 57.74 | 50.74 | 1,171 | 0.31 | 0.40 | 64.0 |
| 5/2/2015 | 23:40:31 | 58.07 | 51.07 | 1,171 | 0.31 | 0.40 | 64.0 |
| 5/2/2015 | 23:40:31 | 58.40 | 51.40 | 1,138 | 0.31 | 0.41 | 62.2 |
| 5/2/2015 | 23:40:31 | 58.73 | 51.73 | 1,134 | 0.31 | 0.40 | 62.0 |
| 5/2/2015 | 23:40:32 | 59.06 | 52.06 | 1,134 | 0.31 | 0.40 | 62.0 |
| 5/2/2015 | 23:40:32 | 59.38 | 52.38 | 1,110 | 0.31 | 0.40 | 60.7 |
| 5/2/2015 | 23:40:32 | 59.71 | 52.71 | 1,098 | 0.31 | 0.40 | 60.1 |
| 5/2/2015 | 23:40:33 | 60.04 | 53.04 | 1,098 | 0.31 | 0.40 | 60.1 |
| 5/2/2015 | 23:40:33 | 60.37 | 53.37 | 1,078 | 0.31 | 0.41 | 59.0 |
| 5/2/2015 | 23:40:34 | 60.70 | 53.70 | 1,070 | 0.31 | 0.40 | 58.5 |
| 5/2/2015 | 23:40:34 | 61.02 | 54.02 | 1,070 | 0.31 | 0.40 | 58.5 |
| 5/2/2015 | 23:40:34 | 61.35 | 54.35 | 1,055 | 0.31 | 0.40 | 57.7 |
| 5/2/2015 | 23:40:35 | 61.68 | 54.68 | 1,041 | 0.31 | 0.40 | 56.9 |
| 5/2/2015 | 23:40:35 | 62.01 | 55.01 | 1,041 | 0.31 | 0.40 | 56.9 |
| 5/2/2015 | 23:40:35 | 62.34 | 55.34 | 1,023 | 0.31 | 0.41 | 55.9 |
| 5/2/2015 | 23:40:36 | 62.66 | 55.66 | 1,020 | 0.24 | 0.41 | 55.8 |
| 5/2/2015 | 23:40:36 | 62.74 | 55.74 | 1,020 | 0.24 | 0.41 | 55.8 |

## P257 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:38:43

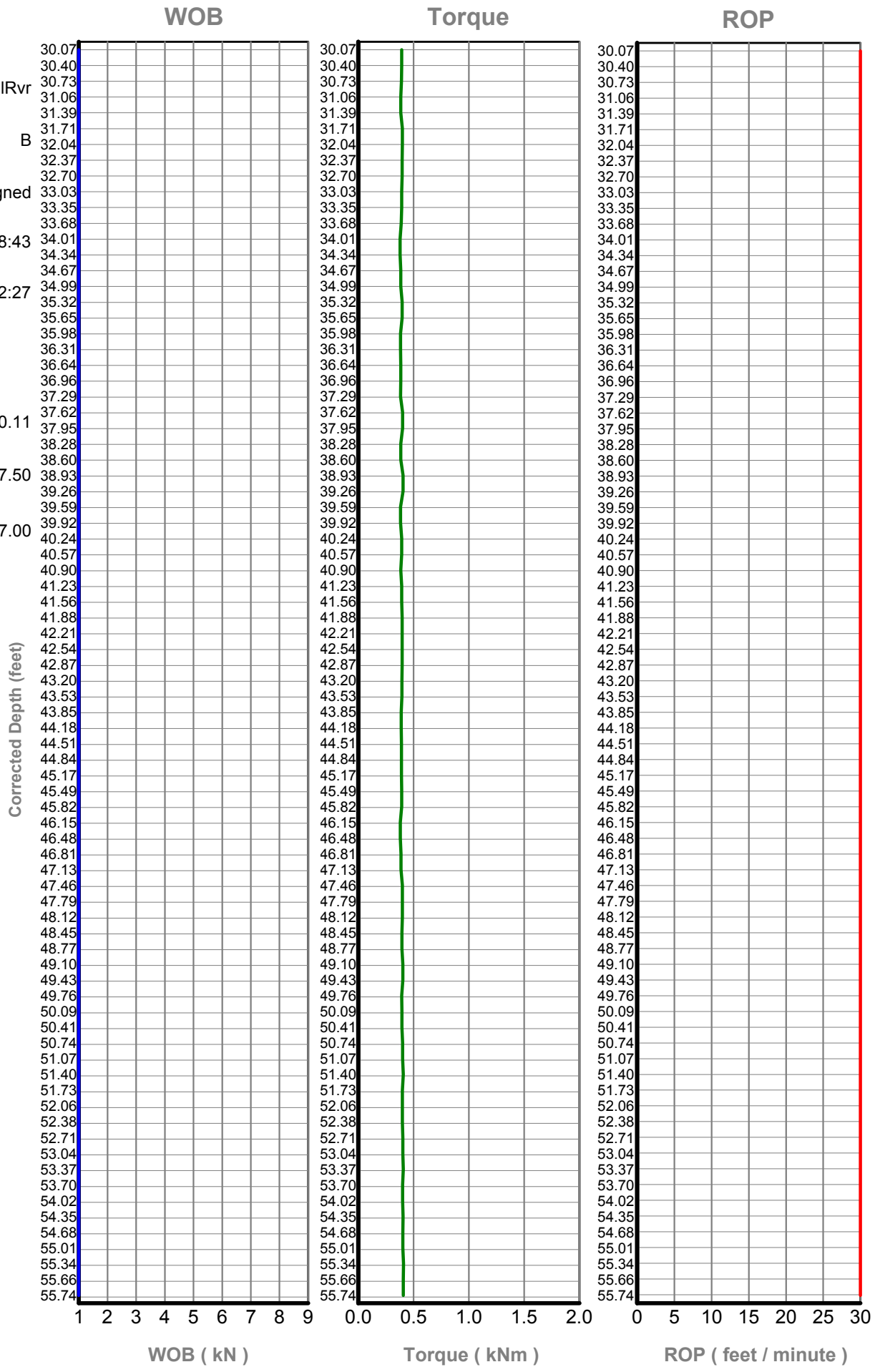
**End Date:**
5/2/2015 23:42:27

**Operator Note:**
'7 7.0b Auto Complete'

**Northing:**
349,030.11

**Easting:**
225,377.50

**Tide (feet):**
7.00



## Hole: P258 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:38:09 | 37.07 | 30.07 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 23:38:09 | 37.40 | 30.40 | 1,001 | 1.14 | 0.29 | 54.8 |
| 5/2/2015 23:38:09 | 37.73 | 30.73 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:38:10 | 38.06 | 31.06 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:38:10 | 38.39 | 31.39 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:38:10 | 38.71 | 31.71 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:38:11 | 39.04 | 32.04 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:11 | 39.37 | 32.37 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:11 | 39.70 | 32.70 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:12 | 40.03 | 33.03 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:12 | 40.35 | 33.35 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:12 | 40.68 | 33.68 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:38:13 | 41.01 | 34.01 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:13 | 41.34 | 34.34 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:13 | 41.67 | 34.67 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 23:38:14 | 41.99 | 34.99 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:15 | 42.32 | 35.32 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:14 | 42.65 | 35.65 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 23:38:15 | 42.98 | 35.98 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:16 | 43.31 | 36.31 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/2/2015 23:38:16 | 43.64 | 36.64 | 1,045 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 23:38:16 | 43.96 | 36.96 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:38:17 | 44.29 | 37.29 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:38:17 | 44.62 | 37.62 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:17 | 44.95 | 37.95 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:38:18 | 45.28 | 38.28 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 23:38:18 | 45.60 | 38.60 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:18 | 45.93 | 38.93 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:19 | 46.26 | 39.26 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:19 | 46.59 | 39.59 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:19 | 46.92 | 39.92 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:20 | 47.24 | 40.24 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:20 | 47.57 | 40.57 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:38:20 | 47.90 | 40.90 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:21 | 48.23 | 41.23 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:21 | 48.56 | 41.56 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:21 | 48.88 | 41.88 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:21 | 49.21 | 42.21 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:22 | 49.54 | 42.54 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:22 | 49.87 | 42.87 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:22 | 50.20 | 43.20 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:23 | 50.53 | 43.53 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:23 | 50.85 | 43.85 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:23 | 51.18 | 44.18 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:24 | 51.51 | 44.51 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:24 | 51.84 | 44.84 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 23:38:24 | 52.17 | 45.17 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:25 | 52.49 | 45.49 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:25 | 52.82 | 45.82 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 23:38:25 | 53.15 | 46.15 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 23:38:26 | 53.48 | 46.48 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:27 | 53.81 | 46.81 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:38:27 | 54.13 | 47.13 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 23:38:27 | 54.46 | 47.46 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:38:28 | 54.79 | 47.79 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 23:38:28 | 55.12 | 48.12 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:38:28 | 55.45 | 48.45 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:38:29 | 55.77 | 48.77 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 23:38:29 | 56.10 | 49.10 | 1,008 | 1.14 | 0.29 | 55.1 |
| 5/2/2015 23:38:29 | 56.43 | 49.43 | 990 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 23:38:30 | 56.76 | 49.76 | 955 | 1.14 | 0.29 | 52.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:38:30 | 57.09 | 50.09 | 955 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 | 23:38:31 | 57.41 | 50.41 | 955 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 | 23:38:31 | 57.74 | 50.74 | 961 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 | 23:38:31 | 58.07 | 51.07 | 921 | 1.14 | 0.29 | 50.4 |
| 5/2/2015 | 23:38:32 | 58.40 | 51.40 | 897 | 1.14 | 0.29 | 49.0 |
| 5/2/2015 | 23:38:32 | 58.73 | 51.73 | 897 | 1.14 | 0.29 | 49.0 |
| 5/2/2015 | 23:38:32 | 59.06 | 52.06 | 897 | 1.14 | 0.29 | 49.0 |
| 5/2/2015 | 23:38:33 | 59.38 | 52.38 | 883 | 1.14 | 0.29 | 48.3 |
| 5/2/2015 | 23:38:33 | 59.71 | 52.71 | 883 | 1.14 | 0.29 | 48.3 |
| 5/2/2015 | 23:38:34 | 60.04 | 53.04 | 891 | 1.14 | 0.29 | 48.7 |
| 5/2/2015 | 23:38:34 | 60.37 | 53.37 | 891 | 1.14 | 0.29 | 48.7 |
| 5/2/2015 | 23:38:34 | 60.70 | 53.70 | 865 | 1.14 | 0.29 | 47.3 |
| 5/2/2015 | 23:38:35 | 61.02 | 54.02 | 869 | 1.14 | 0.29 | 47.5 |
| 5/2/2015 | 23:38:35 | 61.35 | 54.35 | 850 | 1.14 | 0.29 | 46.5 |
| 5/2/2015 | 23:38:36 | 61.68 | 54.68 | 836 | 1.14 | 0.29 | 45.7 |
| 5/2/2015 | 23:38:36 | 62.01 | 55.01 | 835 | 1.14 | 0.29 | 45.7 |
| 5/2/2015 | 23:38:37 | 62.34 | 55.34 | 835 | 1.14 | 0.29 | 45.7 |
| 5/2/2015 | 23:38:36 | 62.37 | 55.37 | 835 | 1.14 | 0.29 | 45.7 |

## P258 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:37:07

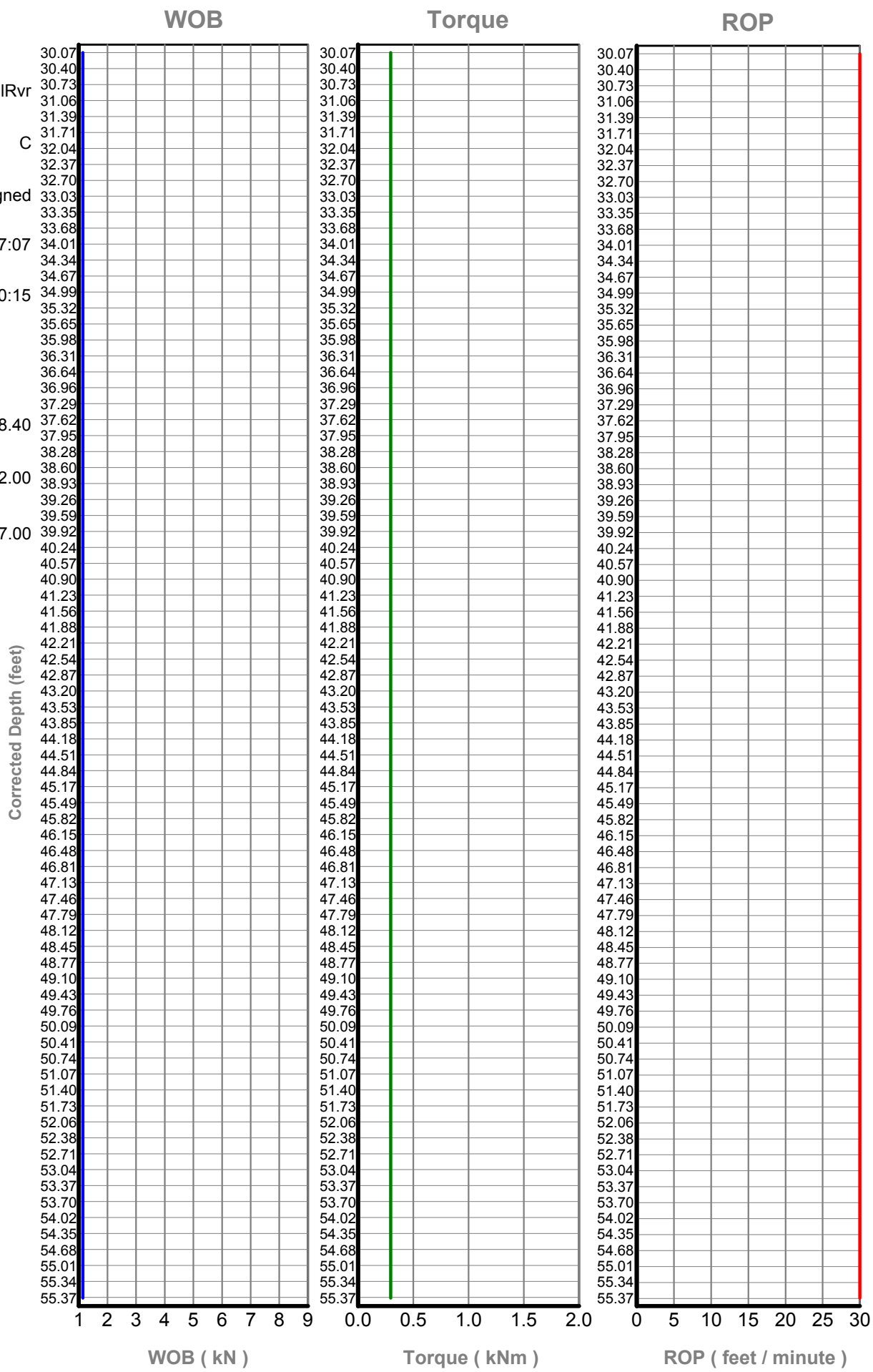
**End Date:**
5/2/2015 23:40:15

**Operator Note:**
'7 7.0 c Auto Complete'

**Northing:**
349,068.40

**Easting:**
225,442.00

**Tide (feet):**
7.00



## Hole: P259 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:11:26 | 31.50 | 30.30 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:27 | 31.82 | 30.62 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:27 | 32.15 | 30.95 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:27 | 32.48 | 31.28 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:28 | 32.81 | 31.61 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:28 | 33.14 | 31.94 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:28 | 33.46 | 32.26 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:29 | 33.79 | 32.59 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:11:29 | 34.12 | 32.92 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:30 | 34.45 | 33.25 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:30 | 34.78 | 33.58 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:30 | 35.11 | 33.91 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:31 | 35.43 | 34.23 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:31 | 35.76 | 34.56 | 924 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:31 | 36.09 | 34.89 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:32 | 36.42 | 35.22 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:32 | 36.75 | 35.55 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:32 | 37.07 | 35.87 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:33 | 37.40 | 36.20 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:33 | 37.73 | 36.53 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 18:11:34 | 38.06 | 36.86 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 18:11:34 | 38.39 | 37.19 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:34 | 38.71 | 37.51 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:35 | 39.04 | 37.84 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:35 | 39.37 | 38.17 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:35 | 39.70 | 38.50 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:36 | 40.03 | 38.83 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:36 | 40.35 | 39.15 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:37 | 40.68 | 39.48 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:37 | 41.01 | 39.81 | 919 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 18:11:38 | 41.34 | 40.14 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 18:11:38 | 41.67 | 40.47 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:39 | 41.99 | 40.79 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:39 | 42.32 | 41.12 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 18:11:39 | 42.65 | 41.45 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:40 | 42.98 | 41.78 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 18:11:40 | 43.31 | 42.11 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 18:11:40 | 43.64 | 42.44 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 18:11:41 | 43.96 | 42.76 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 18:11:41 | 44.29 | 43.09 | 1,033 | 0.54 | 0.17 | 56.5 |
| 5/2/2015 18:11:41 | 44.62 | 43.42 | 1,065 | 0.54 | 0.17 | 58.2 |
| 5/2/2015 18:11:42 | 44.95 | 43.75 | 1,065 | 0.54 | 0.17 | 58.2 |
| 5/2/2015 18:11:42 | 45.28 | 44.08 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 18:11:42 | 45.60 | 44.40 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 18:11:43 | 45.93 | 44.73 | 1,059 | 0.54 | 0.17 | 57.9 |
| 5/2/2015 18:11:43 | 46.26 | 45.06 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/2/2015 18:11:43 | 46.59 | 45.39 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 18:11:44 | 46.92 | 45.72 | 924 | 0.54 | 0.17 | 50.5 |
| 5/2/2015 18:11:45 | 47.24 | 46.04 | 881 | 0.54 | 0.17 | 48.2 |
| 5/2/2015 18:11:45 | 47.57 | 46.37 | 770 | 0.54 | 0.17 | 42.1 |
| 5/2/2015 18:11:46 | 47.90 | 46.70 | 679 | 0.54 | 0.17 | 37.1 |
| 5/2/2015 18:11:46 | 48.23 | 47.03 | 658 | 0.54 | 0.17 | 36.0 |
| 5/2/2015 18:11:47 | 48.56 | 47.36 | 661 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 18:11:47 | 48.88 | 47.68 | 661 | 0.54 | 0.17 | 36.1 |
| 5/2/2015 18:11:47 | 49.21 | 48.01 | 659 | 0.54 | 0.17 | 36.0 |
| 5/2/2015 18:11:48 | 49.54 | 48.34 | 746 | 0.54 | 0.17 | 40.8 |
| 5/2/2015 18:11:48 | 49.87 | 48.67 | 801 | 0.54 | 0.17 | 43.8 |
| 5/2/2015 18:11:49 | 50.20 | 49.00 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 18:11:50 | 50.53 | 49.33 | 795 | 0.54 | 0.17 | 43.5 |
| 5/2/2015 18:11:50 | 50.85 | 49.65 | 800 | 0.54 | 0.17 | 43.8 |
| 5/2/2015 18:11:51 | 51.18 | 49.98 | 800 | 0.54 | 0.17 | 43.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:11:51 | 51.51 | 50.31 | 803 | 0.54 | 0.17 | 43.9 |
| 5/2/2015 | 18:11:51 | 51.84 | 50.64 | 806 | 0.54 | 0.17 | 44.1 |
| 5/2/2015 | 18:11:52 | 52.17 | 50.97 | 818 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 | 18:11:52 | 52.49 | 51.29 | 824 | 0.54 | 0.17 | 45.0 |
| 5/2/2015 | 18:11:53 | 52.82 | 51.62 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 | 18:11:53 | 53.15 | 51.95 | 832 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 | 18:11:53 | 53.48 | 52.28 | 835 | 0.54 | 0.17 | 45.7 |
| 5/2/2015 | 18:11:54 | 53.81 | 52.61 | 830 | 0.54 | 0.17 | 45.4 |
| 5/2/2015 | 18:11:54 | 54.13 | 52.93 | 830 | 0.54 | 0.17 | 45.4 |
| 5/2/2015 | 18:11:55 | 54.46 | 53.26 | 828 | 0.54 | 0.17 | 45.3 |
| 5/2/2015 | 18:11:55 | 54.79 | 53.59 | 833 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 | 18:11:56 | 55.12 | 53.92 | 833 | 0.54 | 0.17 | 45.5 |
| 5/2/2015 | 18:11:57 | 55.45 | 54.25 | 377 | 0.54 | 0.17 | 20.6 |
| 5/2/2015 | 18:11:58 | 55.77 | 54.57 | 217 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 | 18:12:00 | 56.10 | 54.90 | 350 | 0.54 | 0.17 | 19.1 |
| 5/2/2015 | 18:12:01 | 56.43 | 55.23 | 392 | 0.54 | 0.17 | 21.5 |
| 5/2/2015 | 18:12:01 | 56.58 | 55.38 | 392 | 0.54 | 0.17 | 21.5 |

## P259 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:09:38

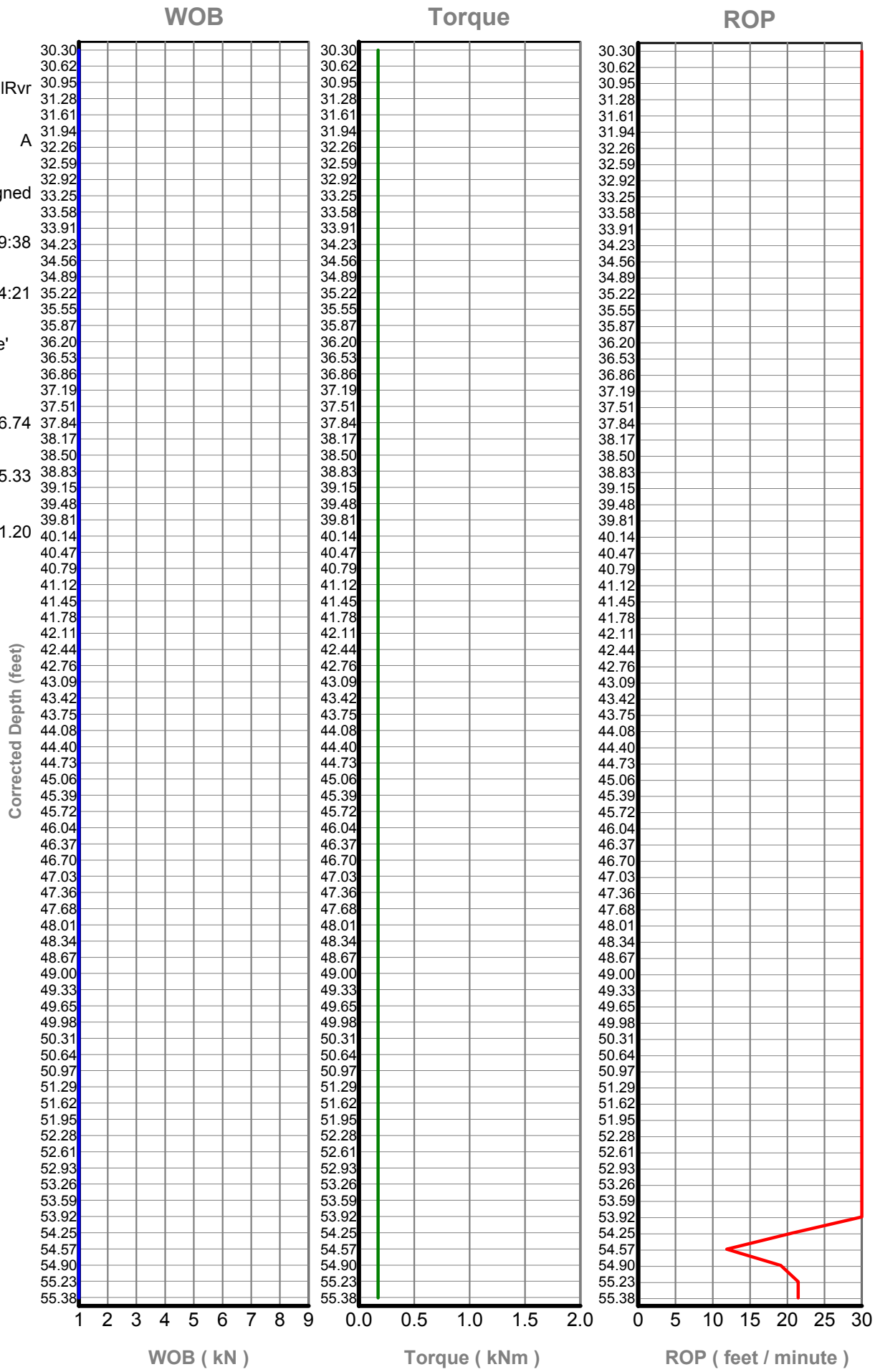
**End Date:**
5/2/2015 18:14:21

**Operator Note:**
'1.2 1.3 a Auto Complete'

**Northing:**
349,106.74

**Easting:**
225,505.33

**Tide (feet):**
1.20



## Hole: P26 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:18:48 | 33.79 | 30.19 | 1,304 | 0.28 | 0.35 | 71.3 |
| 5/2/2015 15:18:48 | 34.12 | 30.52 | 1,304 | 0.28 | 0.35 | 71.3 |
| 5/2/2015 15:18:48 | 34.45 | 30.85 | 1,313 | 0.26 | 0.37 | 71.8 |
| 5/2/2015 15:18:49 | 34.78 | 31.18 | 1,313 | 0.26 | 0.37 | 71.8 |
| 5/2/2015 15:18:49 | 35.11 | 31.51 | 1,307 | 0.26 | 0.40 | 71.5 |
| 5/2/2015 15:18:49 | 35.43 | 31.83 | 1,307 | 0.26 | 0.40 | 71.5 |
| 5/2/2015 15:18:49 | 35.76 | 32.16 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/2/2015 15:18:50 | 36.09 | 32.49 | 1,307 | 0.26 | 0.39 | 71.5 |
| 5/2/2015 15:18:50 | 36.42 | 32.82 | 1,310 | 0.22 | 0.37 | 71.6 |
| 5/2/2015 15:18:50 | 36.75 | 33.15 | 1,310 | 0.22 | 0.37 | 71.6 |
| 5/2/2015 15:18:50 | 37.07 | 33.47 | 1,315 | 0.24 | 0.38 | 71.9 |
| 5/2/2015 15:18:51 | 37.40 | 33.80 | 1,315 | 0.24 | 0.38 | 71.9 |
| 5/2/2015 15:18:51 | 37.73 | 34.13 | 1,310 | 0.27 | 0.34 | 71.6 |
| 5/2/2015 15:18:51 | 38.06 | 34.46 | 1,310 | 0.27 | 0.34 | 71.6 |
| 5/2/2015 15:18:51 | 38.39 | 34.79 | 1,312 | 0.27 | 0.35 | 71.8 |
| 5/2/2015 15:18:52 | 38.71 | 35.11 | 1,312 | 0.27 | 0.35 | 71.8 |
| 5/2/2015 15:18:52 | 39.04 | 35.44 | 1,310 | 0.26 | 0.39 | 71.6 |
| 5/2/2015 15:18:52 | 39.37 | 35.77 | 1,310 | 0.26 | 0.39 | 71.6 |
| 5/2/2015 15:18:52 | 39.70 | 36.10 | 1,313 | 0.26 | 0.36 | 71.8 |
| 5/2/2015 15:18:53 | 40.03 | 36.43 | 1,313 | 0.26 | 0.36 | 71.8 |
| 5/2/2015 15:18:53 | 40.35 | 36.75 | 1,321 | 0.27 | 0.38 | 72.2 |
| 5/2/2015 15:18:53 | 40.68 | 37.08 | 1,324 | 0.26 | 0.34 | 72.4 |
| 5/2/2015 15:18:54 | 41.01 | 37.41 | 1,324 | 0.26 | 0.34 | 72.4 |
| 5/2/2015 15:18:54 | 41.34 | 37.74 | 1,315 | 0.26 | 0.40 | 71.9 |
| 5/2/2015 15:18:54 | 41.67 | 38.07 | 1,315 | 0.26 | 0.40 | 71.9 |
| 5/2/2015 15:18:54 | 41.99 | 38.39 | 1,324 | 0.27 | 0.36 | 72.4 |
| 5/2/2015 15:18:55 | 42.32 | 38.72 | 1,324 | 0.27 | 0.36 | 72.4 |
| 5/2/2015 15:18:55 | 42.65 | 39.05 | 1,324 | 0.23 | 0.38 | 72.4 |
| 5/2/2015 15:18:55 | 42.98 | 39.38 | 1,324 | 0.23 | 0.38 | 72.4 |
| 5/2/2015 15:18:55 | 43.31 | 39.71 | 1,313 | 0.26 | 0.37 | 71.8 |
| 5/2/2015 15:18:56 | 43.64 | 40.04 | 1,313 | 0.26 | 0.37 | 71.8 |
| 5/2/2015 15:18:56 | 43.96 | 40.36 | 1,310 | 0.27 | 0.38 | 71.6 |
| 5/2/2015 15:18:57 | 44.29 | 40.69 | 1,310 | 0.27 | 0.38 | 71.6 |
| 5/2/2015 15:18:57 | 44.62 | 41.02 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/2/2015 15:18:57 | 44.95 | 41.35 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/2/2015 15:18:57 | 45.28 | 41.68 | 1,321 | 0.26 | 0.37 | 72.2 |
| 5/2/2015 15:18:58 | 45.60 | 42.00 | 1,321 | 0.26 | 0.37 | 72.2 |
| 5/2/2015 15:18:58 | 45.93 | 42.33 | 1,315 | 0.27 | 0.38 | 71.9 |
| 5/2/2015 15:18:58 | 46.26 | 42.66 | 1,315 | 0.27 | 0.38 | 71.9 |
| 5/2/2015 15:18:58 | 46.59 | 42.99 | 1,321 | 0.26 | 0.38 | 72.2 |
| 5/2/2015 15:18:59 | 46.92 | 43.32 | 1,321 | 0.26 | 0.38 | 72.2 |
| 5/2/2015 15:18:59 | 47.24 | 43.64 | 1,321 | 0.25 | 0.41 | 72.2 |
| 5/2/2015 15:19:09 | 47.57 | 43.97 | 0 | 2.82 | 0.46 | 0.0 |
| 5/2/2015 15:19:09 | 47.90 | 44.30 | 140 | 2.95 | 0.40 | 7.7 |
| 5/2/2015 15:19:10 | 48.23 | 44.63 | 272 | 5.17 | 0.49 | 14.9 |
| 5/2/2015 15:19:11 | 48.56 | 44.96 | 444 | 5.05 | 0.46 | 24.3 |
| 5/2/2015 15:19:15 | 48.88 | 45.28 | 11 | 5.05 | 0.48 | 0.6 |
| 5/2/2015 15:19:19 | 49.21 | 45.61 | 99 | 3.08 | 0.48 | 5.4 |
| 5/2/2015 15:19:24 | 49.54 | 45.94 | 0 | 2.70 | 0.45 | 0.0 |
| 5/2/2015 15:19:29 | 49.87 | 46.27 | 121 | 4.37 | 0.48 | 6.6 |
| 5/2/2015 15:19:45 | 50.20 | 46.60 | 23 | 6.90 | 0.47 | 1.3 |
| 5/2/2015 15:19:55 | 50.53 | 46.93 | 0 | 4.93 | 0.41 | 0.0 |
| 5/2/2015 15:21:44 | 50.85 | 47.25 | 23 | 4.68 | 0.48 | 1.2 |
| 5/2/2015 15:21:50 | 51.18 | 47.58 | 15 | 4.46 | 0.47 | 0.8 |
| 5/2/2015 15:22:05 | 51.51 | 47.91 | 55 | 3.41 | 0.48 | 3.0 |
| 5/2/2015 15:22:11 | 51.84 | 48.24 | 53 | 3.08 | 0.48 | 2.9 |
| 5/2/2015 15:22:19 | 52.17 | 48.57 | 45 | 2.97 | 0.49 | 2.4 |
| 5/2/2015 15:22:27 | 52.49 | 48.89 | 46 | 3.09 | 0.49 | 2.5 |

## P26 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:16:55

**End Date:**
5/2/2015 15:23:36

**Operator Note:**
'3.6 3.7 b Auto Complete'

**Northing:**
349,841.33

**Easting:**
225,410.56

**Tide (feet):**
3.60



## Hole: P260 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:11:11 | 31.50 | 30.30 | 1,204 | 0.43 | 0.42 | 65.8 |
| 5/2/2015 18:11:12 | 31.82 | 30.62 | 1,194 | 0.44 | 0.42 | 65.3 |
| 5/2/2015 18:11:12 | 32.15 | 30.95 | 1,194 | 0.44 | 0.42 | 65.3 |
| 5/2/2015 18:11:12 | 32.48 | 31.28 | 1,194 | 0.43 | 0.43 | 65.3 |
| 5/2/2015 18:11:13 | 32.81 | 31.61 | 1,194 | 0.43 | 0.43 | 65.3 |
| 5/2/2015 18:11:13 | 33.14 | 31.94 | 1,201 | 0.44 | 0.42 | 65.7 |
| 5/2/2015 18:11:13 | 33.46 | 32.26 | 1,201 | 0.44 | 0.42 | 65.7 |
| 5/2/2015 18:11:13 | 33.79 | 32.59 | 1,205 | 0.43 | 0.41 | 65.9 |
| 5/2/2015 18:11:14 | 34.12 | 32.92 | 1,185 | 0.43 | 0.42 | 64.8 |
| 5/2/2015 18:11:14 | 34.45 | 33.25 | 1,185 | 0.43 | 0.42 | 64.8 |
| 5/2/2015 18:11:14 | 34.78 | 33.58 | 1,225 | 0.43 | 0.42 | 67.0 |
| 5/2/2015 18:11:15 | 35.11 | 33.91 | 1,225 | 0.43 | 0.42 | 67.0 |
| 5/2/2015 18:11:15 | 35.43 | 34.23 | 1,220 | 0.43 | 0.42 | 66.7 |
| 5/2/2015 18:11:15 | 35.76 | 34.56 | 1,220 | 0.43 | 0.42 | 66.7 |
| 5/2/2015 18:11:15 | 36.09 | 34.89 | 1,199 | 0.41 | 0.43 | 65.6 |
| 5/2/2015 18:11:16 | 36.42 | 35.22 | 1,186 | 0.42 | 0.42 | 64.8 |
| 5/2/2015 18:11:16 | 36.75 | 35.55 | 1,186 | 0.42 | 0.42 | 64.8 |
| 5/2/2015 18:11:16 | 37.07 | 35.87 | 1,203 | 0.42 | 0.42 | 65.8 |
| 5/2/2015 18:11:17 | 37.40 | 36.20 | 1,203 | 0.42 | 0.42 | 65.8 |
| 5/2/2015 18:11:17 | 37.73 | 36.53 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:17 | 38.06 | 36.86 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:17 | 38.39 | 37.19 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:18 | 38.71 | 37.51 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:18 | 39.04 | 37.84 | 1,197 | 0.42 | 0.41 | 65.5 |
| 5/2/2015 18:11:18 | 39.37 | 38.17 | 1,217 | 0.41 | 0.41 | 66.5 |
| 5/2/2015 18:11:19 | 39.70 | 38.50 | 1,217 | 0.41 | 0.41 | 66.5 |
| 5/2/2015 18:11:19 | 40.03 | 38.83 | 1,199 | 0.41 | 0.41 | 65.6 |
| 5/2/2015 18:11:20 | 40.35 | 39.15 | 1,199 | 0.41 | 0.41 | 65.6 |
| 5/2/2015 18:11:19 | 40.68 | 39.48 | 1,193 | 0.42 | 0.42 | 65.2 |
| 5/2/2015 18:11:20 | 41.01 | 39.81 | 1,193 | 0.42 | 0.42 | 65.2 |
| 5/2/2015 18:11:20 | 41.34 | 40.14 | 1,193 | 0.41 | 0.41 | 65.2 |
| 5/2/2015 18:11:21 | 41.67 | 40.47 | 1,200 | 0.42 | 0.42 | 65.6 |
| 5/2/2015 18:11:21 | 41.99 | 40.79 | 1,200 | 0.42 | 0.42 | 65.6 |
| 5/2/2015 18:11:21 | 42.32 | 41.12 | 1,200 | 0.43 | 0.42 | 65.6 |
| 5/2/2015 18:11:22 | 42.65 | 41.45 | 1,200 | 0.43 | 0.42 | 65.6 |
| 5/2/2015 18:11:22 | 42.98 | 41.78 | 1,202 | 0.43 | 0.42 | 65.7 |
| 5/2/2015 18:11:22 | 43.31 | 42.11 | 1,202 | 0.43 | 0.42 | 65.7 |
| 5/2/2015 18:11:22 | 43.64 | 42.44 | 1,192 | 0.41 | 0.42 | 65.2 |
| 5/2/2015 18:11:23 | 43.96 | 42.76 | 1,219 | 0.42 | 0.42 | 66.7 |
| 5/2/2015 18:11:23 | 44.29 | 43.09 | 1,219 | 0.42 | 0.42 | 66.7 |
| 5/2/2015 18:11:23 | 44.62 | 43.42 | 1,219 | 0.42 | 0.41 | 66.7 |
| 5/2/2015 18:11:24 | 44.95 | 43.75 | 1,219 | 0.42 | 0.41 | 66.7 |
| 5/2/2015 18:11:24 | 45.28 | 44.08 | 1,220 | 0.42 | 0.41 | 66.7 |
| 5/2/2015 18:11:24 | 45.60 | 44.40 | 1,220 | 0.42 | 0.41 | 66.7 |
| 5/2/2015 18:11:24 | 45.93 | 44.73 | 1,192 | 0.42 | 0.41 | 65.2 |
| 5/2/2015 18:11:25 | 46.26 | 45.06 | 1,192 | 0.33 | 0.41 | 65.2 |
| 5/2/2015 18:11:25 | 46.59 | 45.39 | 1,192 | 0.33 | 0.41 | 65.2 |
| 5/2/2015 18:11:25 | 46.92 | 45.72 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 18:11:26 | 47.24 | 46.04 | 1,191 | 0.33 | 0.40 | 65.1 |
| 5/2/2015 18:11:26 | 47.57 | 46.37 | 1,185 | 0.32 | 0.39 | 64.8 |
| 5/2/2015 18:11:26 | 47.90 | 46.70 | 1,185 | 0.32 | 0.39 | 64.8 |
| 5/2/2015 18:11:26 | 48.23 | 47.03 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:27 | 48.56 | 47.36 | 1,185 | 0.41 | 0.41 | 64.8 |
| 5/2/2015 18:11:27 | 48.88 | 47.68 | 1,198 | 0.41 | 0.41 | 65.5 |
| 5/2/2015 18:11:27 | 49.21 | 48.01 | 1,207 | 0.43 | 0.43 | 66.0 |
| 5/2/2015 18:11:28 | 49.54 | 48.34 | 1,207 | 0.43 | 0.43 | 66.0 |
| 5/2/2015 18:11:28 | 49.87 | 48.67 | 1,180 | 0.42 | 0.44 | 64.5 |
| 5/2/2015 18:11:28 | 50.20 | 49.00 | 1,180 | 0.42 | 0.44 | 64.5 |
| 5/2/2015 18:11:28 | 50.53 | 49.33 | 1,180 | 0.43 | 0.45 | 64.5 |
| 5/2/2015 18:11:29 | 50.85 | 49.65 | 1,185 | 0.43 | 0.44 | 64.8 |
| 5/2/2015 18:11:29 | 51.18 | 49.98 | 1,185 | 0.43 | 0.44 | 64.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:11:29 | 51.51 | 50.31 | 1,182 | 0.43 | 0.44 | 64.6 |
| 5/2/2015 | 18:11:30 | 51.84 | 50.64 | 1,182 | 0.43 | 0.44 | 64.6 |
| 5/2/2015 | 18:11:30 | 52.17 | 50.97 | 1,151 | 0.43 | 0.44 | 62.9 |
| 5/2/2015 | 18:11:31 | 52.49 | 51.29 | 1,140 | 0.44 | 0.44 | 62.4 |
| 5/2/2015 | 18:11:31 | 52.82 | 51.62 | 1,140 | 0.44 | 0.44 | 62.4 |
| 5/2/2015 | 18:11:31 | 53.15 | 51.95 | 1,160 | 0.43 | 0.44 | 63.5 |
| 5/2/2015 | 18:11:32 | 53.48 | 52.28 | 1,160 | 0.43 | 0.44 | 63.5 |
| 5/2/2015 | 18:11:32 | 53.81 | 52.61 | 1,136 | 0.43 | 0.45 | 62.1 |
| 5/2/2015 | 18:11:32 | 54.13 | 52.93 | 1,130 | 0.42 | 0.42 | 61.8 |
| 5/2/2015 | 18:11:33 | 54.46 | 53.26 | 1,130 | 0.42 | 0.42 | 61.8 |
| 5/2/2015 | 18:11:33 | 54.79 | 53.59 | 1,125 | 0.42 | 0.44 | 61.5 |
| 5/2/2015 | 18:11:33 | 55.12 | 53.92 | 1,125 | 0.42 | 0.44 | 61.5 |
| 5/2/2015 | 18:11:33 | 55.45 | 54.25 | 1,132 | 0.41 | 0.43 | 61.9 |
| 5/2/2015 | 18:11:34 | 55.77 | 54.57 | 1,113 | 0.43 | 0.44 | 60.9 |
| 5/2/2015 | 18:11:34 | 56.10 | 54.90 | 1,113 | 0.43 | 0.44 | 60.9 |
| 5/2/2015 | 18:11:34 | 56.43 | 55.23 | 1,107 | 0.41 | 0.44 | 60.6 |
| 5/2/2015 | 18:11:34 | 56.68 | 55.48 | 1,107 | 0.41 | 0.44 | 60.6 |

## P260 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:09:53

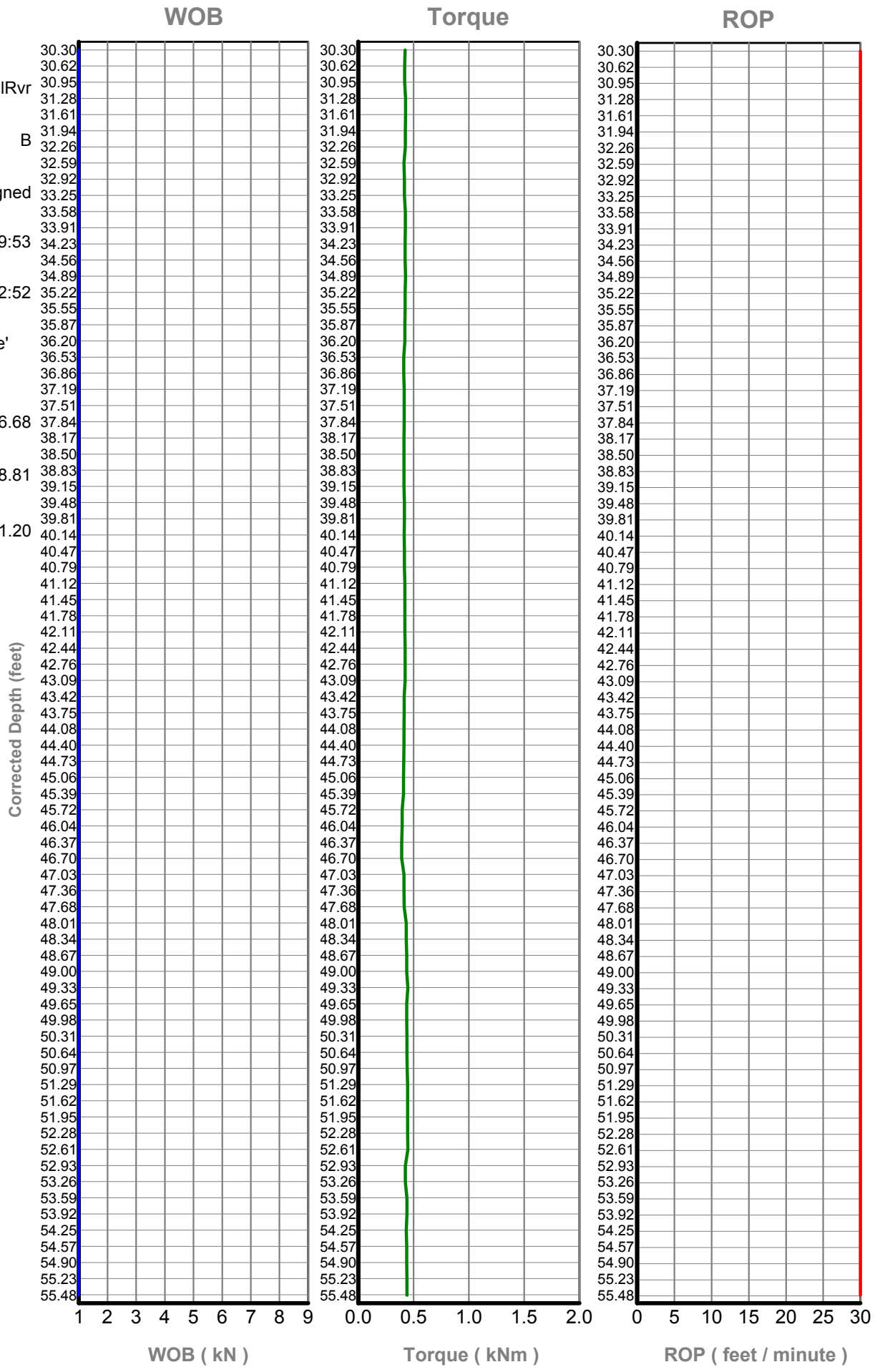
**End Date:**
5/2/2015 18:12:52

**Operator Note:**
'1.2 1.3 b Auto Complete'

**Northing:**
349,146.68

**Easting:**
225,568.81

**Tide (feet):**
1.20



## Hole: P261 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 18:10:45 | 31.50 | 30.30 | 1,025 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 18:10:46 | 31.82 | 30.62 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 18:10:47 | 32.15 | 30.95 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 18:10:47 | 32.48 | 31.28 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:47 | 32.81 | 31.61 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 18:10:48 | 33.14 | 31.94 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 18:10:48 | 33.46 | 32.26 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:48 | 33.79 | 32.59 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:49 | 34.12 | 32.92 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:49 | 34.45 | 33.25 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:49 | 34.78 | 33.58 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 18:10:50 | 35.11 | 33.91 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 18:10:50 | 35.43 | 34.23 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 18:10:50 | 35.76 | 34.56 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 18:10:51 | 36.09 | 34.89 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 18:10:51 | 36.42 | 35.22 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 18:10:51 | 36.75 | 35.55 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/2/2015 18:10:52 | 37.07 | 35.87 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 18:10:52 | 37.40 | 36.20 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 18:10:52 | 37.73 | 36.53 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 18:10:53 | 38.06 | 36.86 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 18:10:53 | 38.39 | 37.19 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 18:10:53 | 38.71 | 37.51 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 18:10:54 | 39.04 | 37.84 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 18:10:54 | 39.37 | 38.17 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 18:10:54 | 39.70 | 38.50 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 18:10:55 | 40.03 | 38.83 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 18:10:55 | 40.35 | 39.15 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 18:10:55 | 40.68 | 39.48 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 18:10:56 | 41.01 | 39.81 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 18:10:56 | 41.34 | 40.14 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 18:10:56 | 41.67 | 40.47 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 18:10:57 | 41.99 | 40.79 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/2/2015 18:10:57 | 42.32 | 41.12 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 18:10:58 | 42.65 | 41.45 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 18:10:58 | 42.98 | 41.78 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 18:10:58 | 43.31 | 42.11 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/2/2015 18:10:59 | 43.64 | 42.44 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 18:10:59 | 43.96 | 42.76 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 18:10:59 | 44.29 | 43.09 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 18:11:00 | 44.62 | 43.42 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 18:11:00 | 44.95 | 43.75 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 18:11:00 | 45.28 | 44.08 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/2/2015 18:11:01 | 45.60 | 44.40 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 18:11:01 | 45.93 | 44.73 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 18:11:01 | 46.26 | 45.06 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 18:11:02 | 46.59 | 45.39 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 18:11:14 | 46.92 | 45.72 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 18:11:15 | 47.24 | 46.04 | 143 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 18:11:16 | 47.57 | 46.37 | 143 | 1.14 | 0.29 | 7.8 |
| 5/2/2015 18:11:16 | 47.90 | 46.70 | 428 | 1.14 | 0.29 | 23.4 |
| 5/2/2015 18:11:17 | 48.23 | 47.03 | 428 | 1.14 | 0.29 | 23.4 |
| 5/2/2015 18:11:17 | 48.56 | 47.36 | 596 | 1.14 | 0.29 | 32.6 |
| 5/2/2015 18:11:17 | 48.88 | 47.68 | 755 | 1.14 | 0.29 | 41.3 |
| 5/2/2015 18:11:18 | 49.21 | 48.01 | 809 | 1.14 | 0.29 | 44.3 |
| 5/2/2015 18:11:18 | 49.54 | 48.34 | 809 | 1.14 | 0.29 | 44.3 |
| 5/2/2015 18:11:18 | 49.87 | 48.67 | 824 | 1.14 | 0.29 | 45.0 |
| 5/2/2015 18:11:19 | 50.20 | 49.00 | 867 | 1.14 | 0.29 | 47.4 |
| 5/2/2015 18:11:20 | 50.53 | 49.33 | 657 | 1.14 | 0.29 | 35.9 |
| 5/2/2015 18:11:21 | 50.85 | 49.65 | 629 | 1.14 | 0.29 | 34.4 |
| 5/2/2015 18:11:22 | 51.18 | 49.98 | 587 | 1.14 | 0.29 | 32.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 18:11:22 | 51.51 | 50.31 | 582 | 1.14 | 0.29 | 31.8 |
| 5/2/2015 | 18:11:23 | 51.84 | 50.64 | 582 | 1.14 | 0.29 | 31.8 |
| 5/2/2015 | 18:11:23 | 52.17 | 50.97 | 685 | 1.14 | 0.29 | 37.4 |
| 5/2/2015 | 18:11:23 | 52.49 | 51.29 | 750 | 1.14 | 0.29 | 41.0 |
| 5/2/2015 | 18:11:24 | 52.82 | 51.62 | 753 | 1.14 | 0.29 | 41.2 |
| 5/2/2015 | 18:11:24 | 53.15 | 51.95 | 742 | 1.14 | 0.29 | 40.6 |
| 5/2/2015 | 18:11:25 | 53.48 | 52.28 | 742 | 1.14 | 0.29 | 40.6 |
| 5/2/2015 | 18:11:25 | 53.81 | 52.61 | 733 | 1.14 | 0.29 | 40.1 |
| 5/2/2015 | 18:11:26 | 54.13 | 52.93 | 715 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 18:11:26 | 54.46 | 53.26 | 702 | 1.14 | 0.29 | 38.4 |
| 5/2/2015 | 18:11:27 | 54.79 | 53.59 | 675 | 1.14 | 0.29 | 36.9 |
| 5/2/2015 | 18:11:27 | 55.12 | 53.92 | 672 | 1.14 | 0.29 | 36.8 |
| 5/2/2015 | 18:11:29 | 55.45 | 54.25 | 390 | 1.14 | 0.29 | 21.4 |
| 5/2/2015 | 18:11:30 | 55.77 | 54.57 | 282 | 1.14 | 0.29 | 15.4 |
| 5/2/2015 | 18:11:31 | 56.10 | 54.90 | 269 | 1.14 | 0.29 | 14.7 |
| 5/2/2015 | 18:11:36 | 56.35 | 55.15 | 0 | 1.14 | 0.29 | 0.0 |

## P261 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 18:09:19

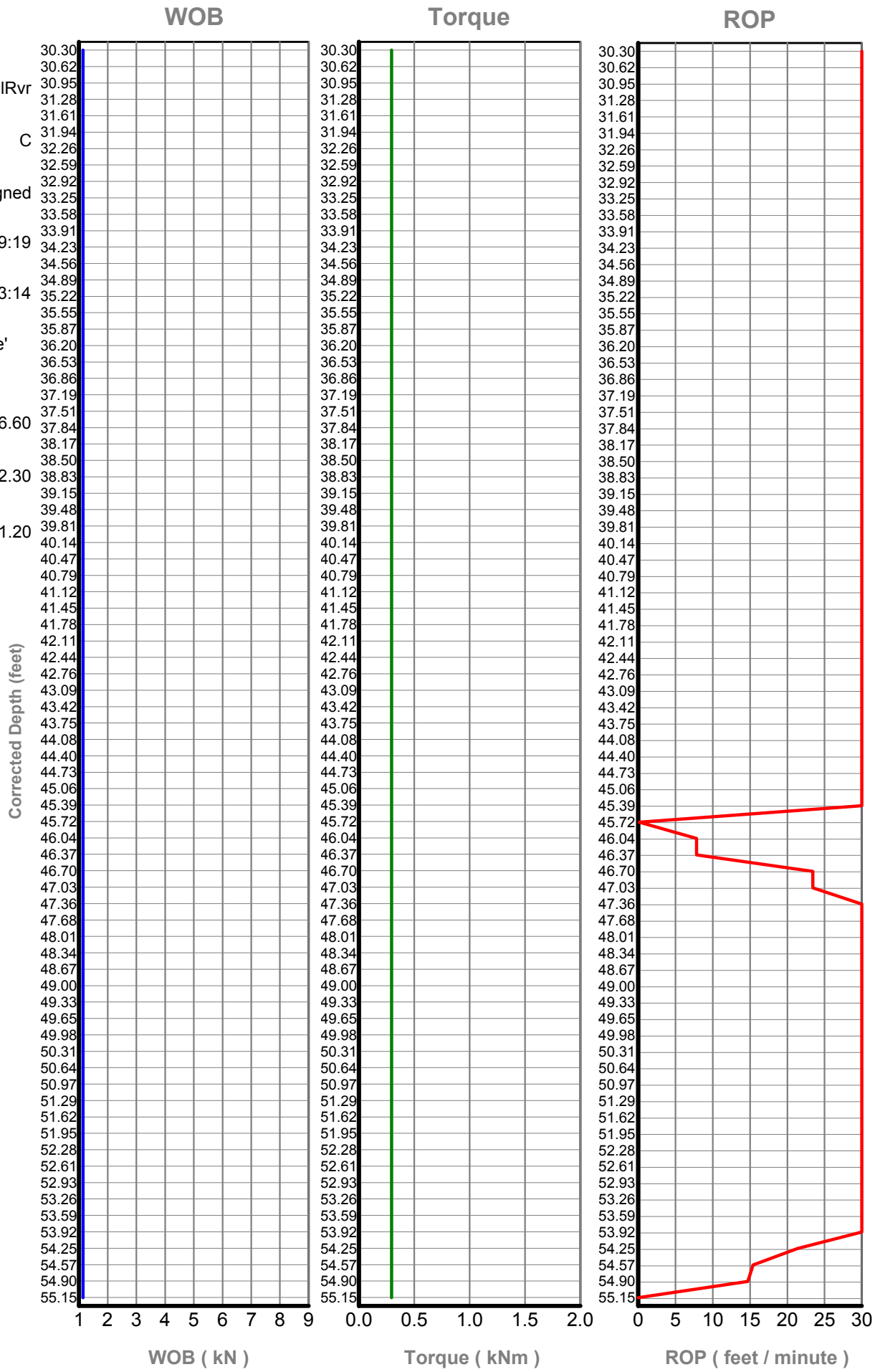
**End Date:**
5/2/2015 18:13:14

**Operator Note:**
'1.2 1.3 c Auto Complete'

**Northing:**
349,186.60

**Easting:**
225,632.30

**Tide (feet):**
1.20



## Hole: P262 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:50:49 | 31.50 | 30.10 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:50:49 | 31.82 | 30.42 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:50:49 | 32.15 | 30.75 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:50 | 32.48 | 31.08 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:50:50 | 32.81 | 31.41 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:50:50 | 33.14 | 31.74 | 955 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 17:50:51 | 33.46 | 32.06 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 17:50:51 | 33.79 | 32.39 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:52 | 34.12 | 32.72 | 928 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:52 | 34.45 | 33.05 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 17:50:52 | 34.78 | 33.38 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:50:53 | 35.11 | 33.71 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:50:53 | 35.43 | 34.03 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:50:53 | 35.76 | 34.36 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 17:50:54 | 36.09 | 34.69 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 17:50:54 | 36.42 | 35.02 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 17:50:55 | 36.75 | 35.35 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 17:50:55 | 37.07 | 35.67 | 941 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:50:56 | 37.40 | 36.00 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:56 | 37.73 | 36.33 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:56 | 38.06 | 36.66 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 17:50:57 | 38.39 | 36.99 | 925 | 0.54 | 0.17 | 50.6 |
| 5/2/2015 17:50:57 | 38.71 | 37.31 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:58 | 39.04 | 37.64 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:58 | 39.37 | 37.97 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:58 | 39.70 | 38.30 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 17:50:59 | 40.03 | 38.63 | 921 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 17:50:59 | 40.35 | 38.95 | 921 | 0.54 | 0.17 | 50.3 |
| 5/2/2015 17:50:59 | 40.68 | 39.28 | 929 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 17:51:00 | 41.01 | 39.61 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 17:51:00 | 41.34 | 39.94 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 17:51:01 | 41.67 | 40.27 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 17:51:01 | 41.99 | 40.59 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 17:51:01 | 42.32 | 40.92 | 943 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:51:02 | 42.65 | 41.25 | 943 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:51:02 | 42.98 | 41.58 | 935 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:51:02 | 43.31 | 41.91 | 936 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:51:03 | 43.64 | 42.24 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:51:03 | 43.96 | 42.56 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:51:03 | 44.29 | 42.89 | 944 | 0.54 | 0.17 | 51.6 |
| 5/2/2015 17:51:04 | 44.62 | 43.22 | 931 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:51:04 | 44.95 | 43.55 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:51:05 | 45.28 | 43.88 | 937 | 0.54 | 0.17 | 51.2 |
| 5/2/2015 17:51:05 | 45.60 | 44.20 | 933 | 0.54 | 0.17 | 51.0 |
| 5/2/2015 17:51:05 | 45.93 | 44.53 | 930 | 0.54 | 0.17 | 50.9 |
| 5/2/2015 17:51:06 | 46.26 | 44.86 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 17:51:06 | 46.59 | 45.19 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 17:51:06 | 46.92 | 45.52 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 17:51:07 | 47.24 | 45.84 | 893 | 0.54 | 0.17 | 48.8 |
| 5/2/2015 17:51:08 | 47.57 | 46.17 | 875 | 0.54 | 0.17 | 47.9 |
| 5/2/2015 17:51:08 | 47.90 | 46.50 | 858 | 0.54 | 0.17 | 46.9 |
| 5/2/2015 17:51:09 | 48.23 | 46.83 | 840 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 17:51:09 | 48.56 | 47.16 | 840 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 17:51:09 | 48.88 | 47.48 | 830 | 0.54 | 0.17 | 45.4 |
| 5/2/2015 17:51:10 | 49.21 | 47.81 | 826 | 0.54 | 0.17 | 45.1 |
| 5/2/2015 17:51:10 | 49.54 | 48.14 | 820 | 0.54 | 0.17 | 44.8 |
| 5/2/2015 17:51:11 | 49.87 | 48.47 | 817 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 17:51:11 | 50.20 | 48.80 | 817 | 0.54 | 0.17 | 44.7 |
| 5/2/2015 17:51:12 | 50.53 | 49.13 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:51:12 | 50.85 | 49.45 | 814 | 0.54 | 0.17 | 44.5 |
| 5/2/2015 17:51:12 | 51.18 | 49.78 | 803 | 0.54 | 0.17 | 43.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:51:13 | 51.51 | 50.11 | 782 | 0.54 | 0.17 | 42.8 |
| 5/2/2015 | 17:51:13 | 51.84 | 50.44 | 777 | 0.54 | 0.17 | 42.5 |
| 5/2/2015 | 17:51:14 | 52.17 | 50.77 | 758 | 0.54 | 0.17 | 41.4 |
| 5/2/2015 | 17:51:14 | 52.49 | 51.09 | 748 | 0.54 | 0.17 | 40.9 |
| 5/2/2015 | 17:51:15 | 52.82 | 51.42 | 745 | 0.54 | 0.17 | 40.7 |
| 5/2/2015 | 17:51:15 | 53.15 | 51.75 | 743 | 0.54 | 0.17 | 40.6 |
| 5/2/2015 | 17:51:16 | 53.48 | 52.08 | 736 | 0.54 | 0.17 | 40.2 |
| 5/2/2015 | 17:51:16 | 53.81 | 52.41 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 | 17:51:17 | 54.13 | 52.73 | 727 | 0.54 | 0.17 | 39.8 |
| 5/2/2015 | 17:51:17 | 54.46 | 53.06 | 724 | 0.54 | 0.17 | 39.6 |
| 5/2/2015 | 17:51:18 | 54.79 | 53.39 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 | 17:51:19 | 55.12 | 53.72 | 721 | 0.54 | 0.17 | 39.4 |
| 5/2/2015 | 17:51:19 | 55.45 | 54.05 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 | 17:51:20 | 55.77 | 54.37 | 733 | 0.54 | 0.17 | 40.1 |
| 5/2/2015 | 17:51:25 | 56.10 | 54.70 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 | 17:51:27 | 56.43 | 55.03 | 182 | 0.54 | 0.17 | 9.9 |
| 5/2/2015 | 17:51:27 | 56.76 | 55.36 | 291 | 0.54 | 0.17 | 15.9 |

## P262 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:48:28

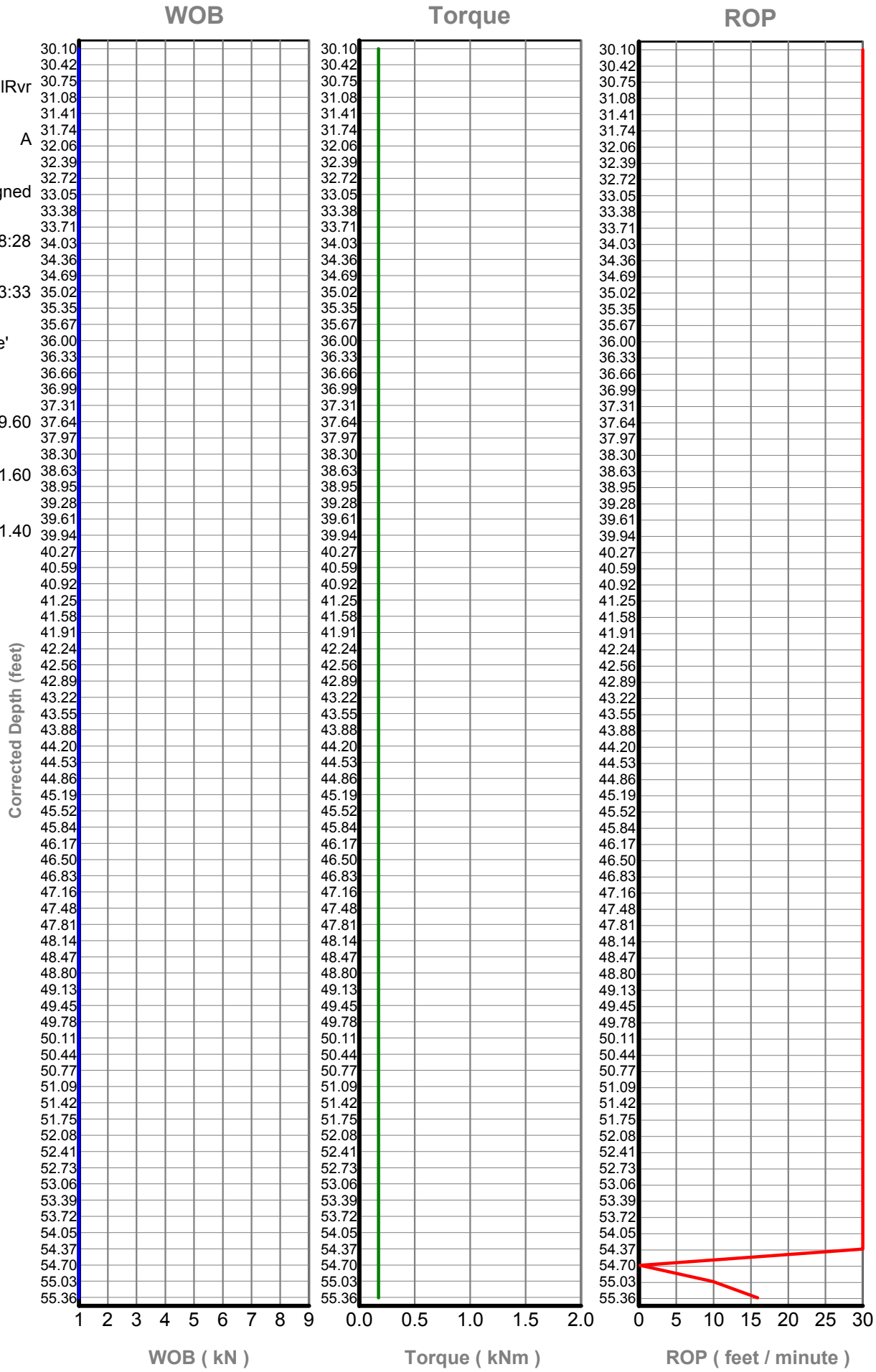
**End Date:**
5/2/2015 17:53:33

**Operator Note:**
'1.4 1.0 a Auto Complete'

**Northing:**
349,229.60

**Easting:**
225,701.60

**Tide (feet):**
1.40



## Hole: P263 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:49:35 | 31.50 | 30.10 | 1,333 | 0.39 | 0.43 | 72.9 |
| 5/2/2015 17:49:36 | 31.82 | 30.42 | 1,333 | 0.39 | 0.43 | 72.9 |
| 5/2/2015 17:49:36 | 32.15 | 30.75 | 1,348 | 0.39 | 0.44 | 73.7 |
| 5/2/2015 17:49:36 | 32.48 | 31.08 | 1,348 | 0.39 | 0.44 | 73.7 |
| 5/2/2015 17:49:36 | 32.81 | 31.41 | 1,352 | 0.39 | 0.44 | 74.0 |
| 5/2/2015 17:49:37 | 33.14 | 31.74 | 1,352 | 0.39 | 0.44 | 74.0 |
| 5/2/2015 17:49:37 | 33.46 | 32.06 | 1,357 | 0.39 | 0.43 | 74.2 |
| 5/2/2015 17:49:37 | 33.79 | 32.39 | 1,357 | 0.39 | 0.43 | 74.2 |
| 5/2/2015 17:49:37 | 34.12 | 32.72 | 1,347 | 0.39 | 0.45 | 73.6 |
| 5/2/2015 17:49:38 | 34.45 | 33.05 | 1,347 | 0.39 | 0.45 | 73.6 |
| 5/2/2015 17:49:38 | 34.78 | 33.38 | 1,353 | 0.39 | 0.44 | 74.0 |
| 5/2/2015 17:49:39 | 35.11 | 33.71 | 1,353 | 0.39 | 0.44 | 74.0 |
| 5/2/2015 17:49:39 | 35.43 | 34.03 | 1,339 | 0.39 | 0.44 | 73.2 |
| 5/2/2015 17:49:39 | 35.76 | 34.36 | 1,328 | 0.38 | 0.43 | 72.6 |
| 5/2/2015 17:49:40 | 36.09 | 34.69 | 1,328 | 0.38 | 0.43 | 72.6 |
| 5/2/2015 17:49:40 | 36.42 | 35.02 | 1,336 | 0.38 | 0.45 | 73.0 |
| 5/2/2015 17:49:40 | 36.75 | 35.35 | 1,336 | 0.38 | 0.45 | 73.0 |
| 5/2/2015 17:49:40 | 37.07 | 35.67 | 1,338 | 0.39 | 0.44 | 73.2 |
| 5/2/2015 17:49:41 | 37.40 | 36.00 | 1,338 | 0.39 | 0.44 | 73.2 |
| 5/2/2015 17:49:41 | 37.73 | 36.33 | 1,336 | 0.38 | 0.45 | 73.0 |
| 5/2/2015 17:49:41 | 38.06 | 36.66 | 1,336 | 0.38 | 0.45 | 73.0 |
| 5/2/2015 17:49:41 | 38.39 | 36.99 | 1,336 | 0.38 | 0.44 | 73.0 |
| 5/2/2015 17:49:42 | 38.71 | 37.31 | 1,336 | 0.38 | 0.44 | 73.0 |
| 5/2/2015 17:49:42 | 39.04 | 37.64 | 1,338 | 0.38 | 0.43 | 73.2 |
| 5/2/2015 17:49:42 | 39.37 | 37.97 | 1,338 | 0.38 | 0.43 | 73.2 |
| 5/2/2015 17:49:42 | 39.70 | 38.30 | 1,341 | 0.38 | 0.45 | 73.3 |
| 5/2/2015 17:49:43 | 40.03 | 38.63 | 1,341 | 0.38 | 0.45 | 73.3 |
| 5/2/2015 17:49:43 | 40.35 | 38.95 | 1,341 | 0.38 | 0.45 | 73.3 |
| 5/2/2015 17:49:43 | 40.68 | 39.28 | 1,341 | 0.38 | 0.45 | 73.3 |
| 5/2/2015 17:49:43 | 41.01 | 39.61 | 1,335 | 0.37 | 0.44 | 73.0 |
| 5/2/2015 17:49:44 | 41.34 | 39.94 | 1,335 | 0.37 | 0.44 | 73.0 |
| 5/2/2015 17:49:44 | 41.67 | 40.27 | 1,335 | 0.37 | 0.44 | 73.0 |
| 5/2/2015 17:49:44 | 41.99 | 40.59 | 1,335 | 0.37 | 0.44 | 73.0 |
| 5/2/2015 17:49:44 | 42.32 | 40.92 | 1,338 | 0.38 | 0.43 | 73.2 |
| 5/2/2015 17:49:45 | 42.65 | 41.25 | 1,338 | 0.38 | 0.43 | 73.2 |
| 5/2/2015 17:49:45 | 42.98 | 41.58 | 1,332 | 0.38 | 0.44 | 72.9 |
| 5/2/2015 17:49:46 | 43.31 | 41.91 | 1,332 | 0.38 | 0.44 | 72.9 |
| 5/2/2015 17:49:45 | 43.64 | 42.24 | 1,296 | 0.39 | 0.43 | 70.9 |
| 5/2/2015 17:49:46 | 43.96 | 42.56 | 1,296 | 0.39 | 0.43 | 70.9 |
| 5/2/2015 17:49:46 | 44.29 | 42.89 | 1,296 | 0.38 | 0.44 | 70.9 |
| 5/2/2015 17:49:46 | 44.62 | 43.22 | 1,296 | 0.38 | 0.44 | 70.9 |
| 5/2/2015 17:49:46 | 44.95 | 43.55 | 1,318 | 0.38 | 0.44 | 72.1 |
| 5/2/2015 17:49:47 | 45.28 | 43.88 | 1,318 | 0.38 | 0.44 | 72.1 |
| 5/2/2015 17:49:47 | 45.60 | 44.20 | 1,300 | 0.39 | 0.44 | 71.1 |
| 5/2/2015 17:49:47 | 45.93 | 44.53 | 1,300 | 0.39 | 0.44 | 71.1 |
| 5/2/2015 17:49:47 | 46.26 | 44.86 | 1,300 | 0.38 | 0.43 | 71.1 |
| 5/2/2015 17:49:48 | 46.59 | 45.19 | 1,305 | 0.39 | 0.44 | 71.4 |
| 5/2/2015 17:49:49 | 46.92 | 45.52 | 1,305 | 0.39 | 0.44 | 71.4 |
| 5/2/2015 17:49:49 | 47.24 | 45.84 | 1,303 | 0.39 | 0.45 | 71.2 |
| 5/2/2015 17:49:49 | 47.57 | 46.17 | 1,303 | 0.39 | 0.45 | 71.2 |
| 5/2/2015 17:49:49 | 47.90 | 46.50 | 1,345 | 0.39 | 0.44 | 73.5 |
| 5/2/2015 17:49:50 | 48.23 | 46.83 | 1,345 | 0.39 | 0.44 | 73.5 |
| 5/2/2015 17:49:50 | 48.56 | 47.16 | 1,312 | 0.39 | 0.45 | 71.8 |
| 5/2/2015 17:49:50 | 48.88 | 47.48 | 1,312 | 0.39 | 0.45 | 71.8 |
| 5/2/2015 17:49:50 | 49.21 | 47.81 | 1,324 | 0.39 | 0.45 | 72.4 |
| 5/2/2015 17:49:51 | 49.54 | 48.14 | 1,324 | 0.39 | 0.45 | 72.4 |
| 5/2/2015 17:49:51 | 49.87 | 48.47 | 1,315 | 0.39 | 0.45 | 71.9 |
| 5/2/2015 17:49:51 | 50.20 | 48.80 | 1,315 | 0.39 | 0.45 | 71.9 |
| 5/2/2015 17:49:51 | 50.53 | 49.13 | 1,301 | 0.39 | 0.43 | 71.1 |
| 5/2/2015 17:49:52 | 50.85 | 49.45 | 1,301 | 0.39 | 0.43 | 71.1 |
| 5/2/2015 17:49:52 | 51.18 | 49.78 | 1,286 | 0.39 | 0.43 | 70.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:49:52 | 51.51 | 50.11 | 1,286 | 0.39 | 0.43 | 70.3 |
| 5/2/2015 | 17:49:52 | 51.84 | 50.44 | 1,273 | 0.39 | 0.45 | 69.6 |
| 5/2/2015 | 17:49:53 | 52.17 | 50.77 | 1,272 | 0.39 | 0.44 | 69.6 |
| 5/2/2015 | 17:49:53 | 52.49 | 51.09 | 1,272 | 0.39 | 0.44 | 69.6 |
| 5/2/2015 | 17:49:53 | 52.82 | 51.42 | 1,255 | 0.38 | 0.44 | 68.6 |
| 5/2/2015 | 17:49:54 | 53.15 | 51.75 | 1,255 | 0.38 | 0.44 | 68.6 |
| 5/2/2015 | 17:49:54 | 53.48 | 52.08 | 1,240 | 0.39 | 0.45 | 67.8 |
| 5/2/2015 | 17:49:54 | 53.81 | 52.41 | 1,240 | 0.39 | 0.45 | 67.8 |
| 5/2/2015 | 17:49:54 | 54.13 | 52.73 | 1,218 | 0.39 | 0.44 | 66.6 |
| 5/2/2015 | 17:49:55 | 54.46 | 53.06 | 1,216 | 0.39 | 0.44 | 66.5 |
| 5/2/2015 | 17:49:55 | 54.79 | 53.39 | 1,216 | 0.39 | 0.44 | 66.5 |
| 5/2/2015 | 17:49:55 | 55.12 | 53.72 | 1,182 | 0.39 | 0.44 | 64.6 |
| 5/2/2015 | 17:49:56 | 55.45 | 54.05 | 1,182 | 0.39 | 0.44 | 64.6 |
| 5/2/2015 | 17:49:56 | 55.77 | 54.37 | 1,174 | 0.39 | 0.44 | 64.2 |
| 5/2/2015 | 17:49:56 | 56.10 | 54.70 | 1,157 | 0.43 | 0.08 | 63.3 |
| 5/2/2015 | 17:49:58 | 56.43 | 55.03 | 360 | 0.36 | 0.35 | 19.7 |
| 5/2/2015 | 17:49:59 | 56.76 | 55.36 | 360 | 0.36 | 0.35 | 19.7 |
| 5/2/2015 | 17:49:58 | 56.86 | 55.46 | 360 | 0.36 | 0.35 | 19.7 |

## P263 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:48:00

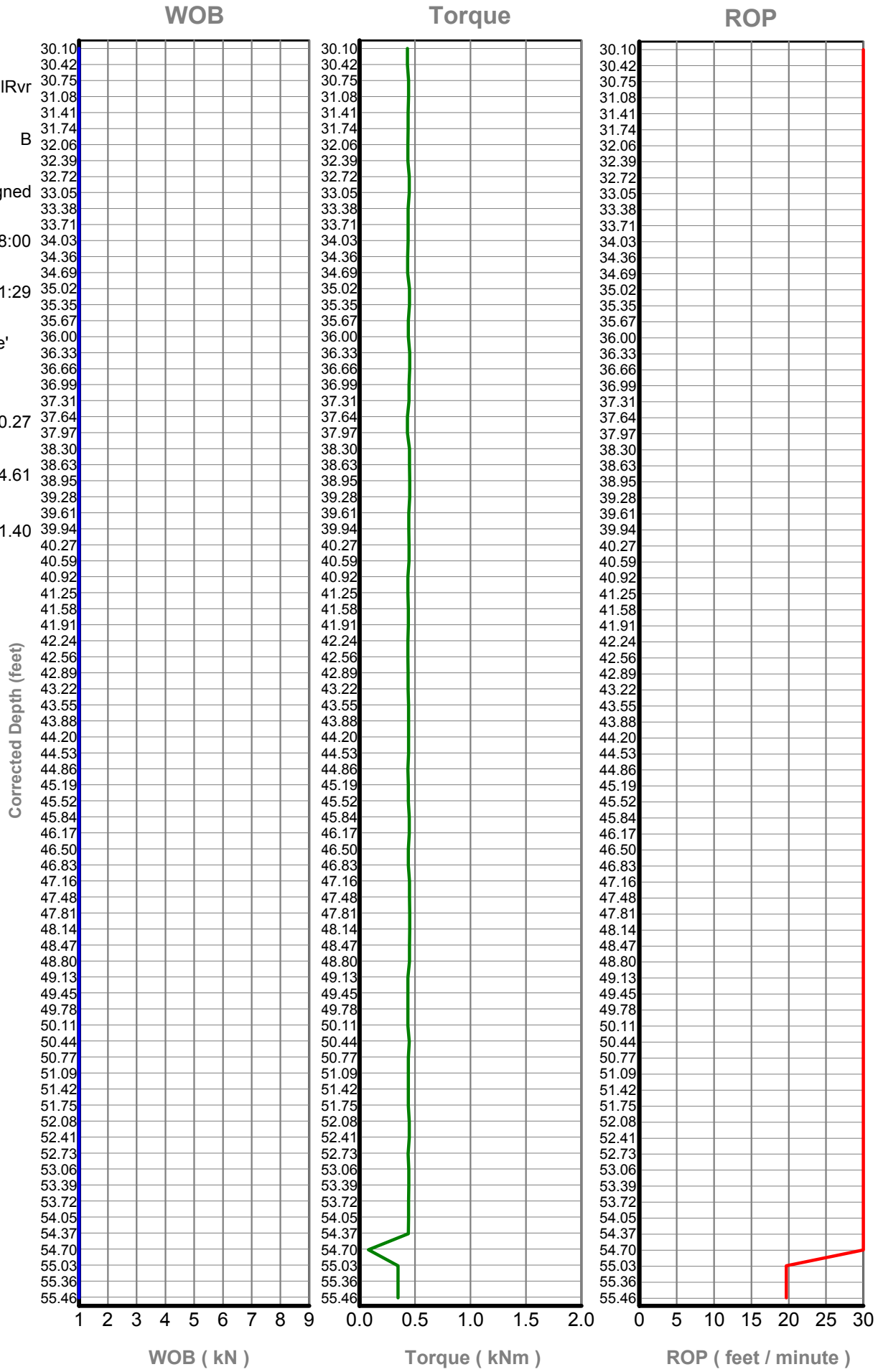
**End Date:**
5/2/2015 17:51:29

**Operator Note:**
'1.4 1.5 b Auto Complete'

**Northing:**
349,270.27

**Easting:**
225,764.61

**Tide (feet):**
1.40



## Hole: P264 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 17:49:23 | 31.50 | 30.10 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 17:49:23 | 31.82 | 30.42 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:49:24 | 32.15 | 30.75 | 1,098 | 1.14 | 0.29 | 60.0 |
| 5/2/2015 17:49:24 | 32.48 | 31.08 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:49:24 | 32.81 | 31.41 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:49:25 | 33.14 | 31.74 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 17:49:25 | 33.46 | 32.06 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:49:25 | 33.79 | 32.39 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:49:26 | 34.12 | 32.72 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/2/2015 17:49:26 | 34.45 | 33.05 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:26 | 34.78 | 33.38 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:49:27 | 35.11 | 33.71 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:49:27 | 35.43 | 34.03 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:27 | 35.76 | 34.36 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:27 | 36.09 | 34.69 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:28 | 36.42 | 35.02 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:29 | 36.75 | 35.35 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 17:49:28 | 37.07 | 35.67 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 17:49:29 | 37.40 | 36.00 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:49:30 | 37.73 | 36.33 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 17:49:30 | 38.06 | 36.66 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:30 | 38.39 | 36.99 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:31 | 38.71 | 37.31 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:31 | 39.04 | 37.64 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:31 | 39.37 | 37.97 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:32 | 39.70 | 38.30 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:32 | 40.03 | 38.63 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:49:32 | 40.35 | 38.95 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:49:32 | 40.68 | 39.28 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 17:49:33 | 41.01 | 39.61 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:33 | 41.34 | 39.94 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 17:49:33 | 41.67 | 40.27 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:49:34 | 41.99 | 40.59 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:49:34 | 42.32 | 40.92 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 17:49:34 | 42.65 | 41.25 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:35 | 42.98 | 41.58 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:35 | 43.31 | 41.91 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:35 | 43.64 | 42.24 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:49:36 | 43.96 | 42.56 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:36 | 44.29 | 42.89 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:36 | 44.62 | 43.22 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 17:49:37 | 44.95 | 43.55 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:37 | 45.28 | 43.88 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:37 | 45.60 | 44.20 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:49:38 | 45.93 | 44.53 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/2/2015 17:49:38 | 46.26 | 44.86 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/2/2015 17:49:38 | 46.59 | 45.19 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:39 | 46.92 | 45.52 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 17:49:39 | 47.24 | 45.84 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/2/2015 17:49:39 | 47.57 | 46.17 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 17:49:40 | 47.90 | 46.50 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/2/2015 17:49:40 | 48.23 | 46.83 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 17:49:41 | 48.56 | 47.16 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 17:49:41 | 48.88 | 47.48 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 17:49:41 | 49.21 | 47.81 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 17:49:42 | 49.54 | 48.14 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 17:49:42 | 49.87 | 48.47 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 17:49:42 | 50.20 | 48.80 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/2/2015 17:49:43 | 50.53 | 49.13 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 17:49:43 | 50.85 | 49.45 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/2/2015 17:49:44 | 51.18 | 49.78 | 1,006 | 1.14 | 0.29 | 55.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 17:49:44 | 51.51 | 50.11 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 | 17:49:44 | 51.84 | 50.44 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 | 17:49:45 | 52.17 | 50.77 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 | 17:49:45 | 52.49 | 51.09 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 | 17:49:45 | 52.82 | 51.42 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 | 17:49:46 | 53.15 | 51.75 | 983 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 | 17:49:46 | 53.48 | 52.08 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 | 17:49:46 | 53.81 | 52.41 | 960 | 1.14 | 0.29 | 52.5 |
| 5/2/2015 | 17:49:47 | 54.13 | 52.73 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 | 17:49:47 | 54.46 | 53.06 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 | 17:49:47 | 54.79 | 53.39 | 937 | 1.14 | 0.29 | 51.2 |
| 5/2/2015 | 17:49:48 | 55.12 | 53.72 | 722 | 1.14 | 0.29 | 39.5 |
| 5/2/2015 | 17:49:49 | 55.45 | 54.05 | 680 | 1.14 | 0.29 | 37.2 |
| 5/2/2015 | 17:49:49 | 55.77 | 54.37 | 654 | 1.14 | 0.29 | 35.7 |
| 5/2/2015 | 17:49:50 | 56.10 | 54.70 | 660 | 1.14 | 0.29 | 36.1 |
| 5/2/2015 | 17:49:50 | 56.43 | 55.03 | 660 | 1.14 | 0.29 | 36.1 |
| 5/2/2015 | 17:49:50 | 56.76 | 55.36 | 678 | 1.14 | 0.29 | 37.1 |
| 5/2/2015 | 17:49:51 | 57.09 | 55.69 | 837 | 1.14 | 0.29 | 45.8 |
| 5/2/2015 | 17:49:51 | 57.18 | 55.78 | 837 | 1.14 | 0.29 | 45.8 |

## P264 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 17:48:10

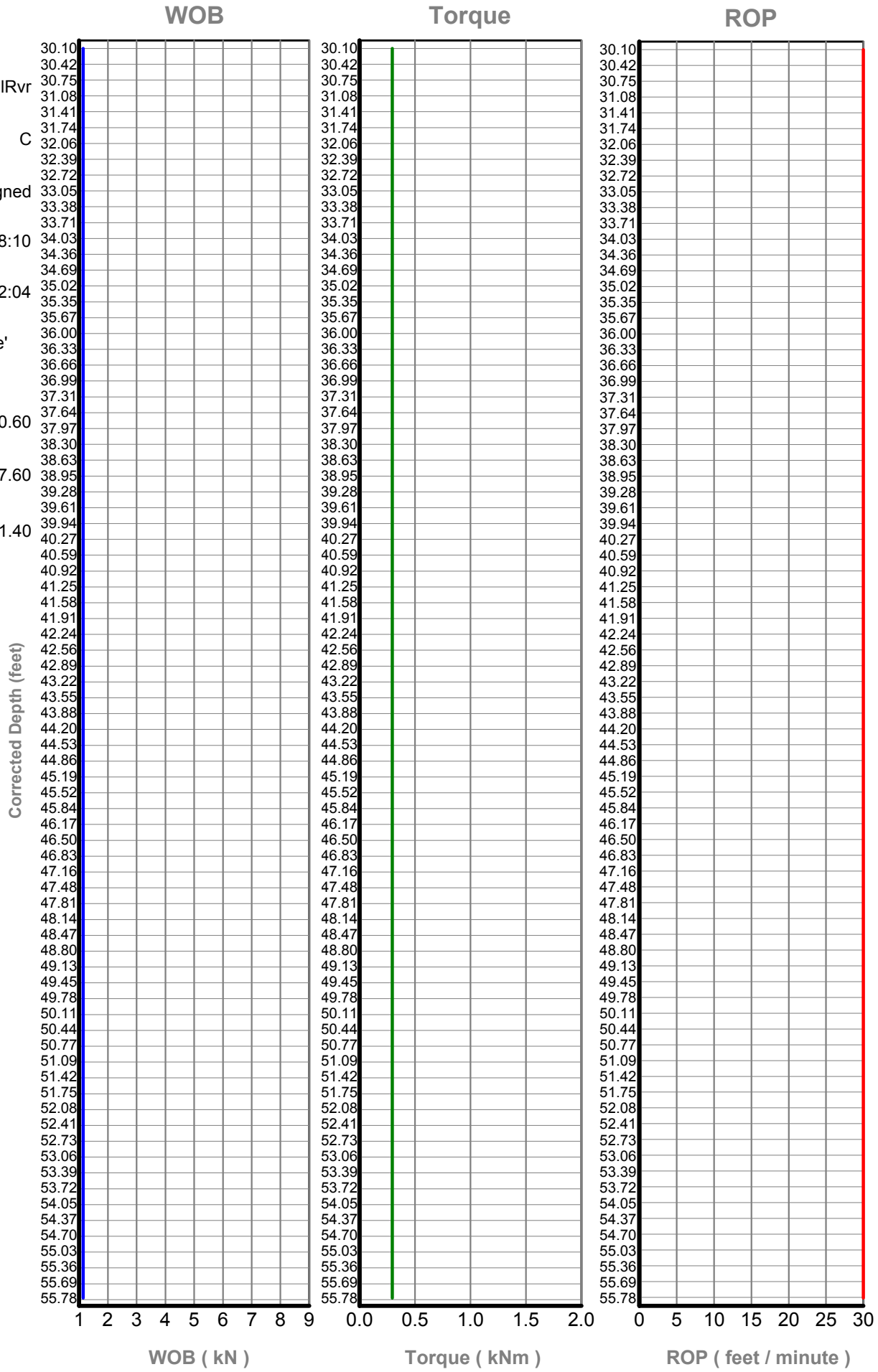
**End Date:**
5/2/2015 17:52:04

**Operator Note:**
'1.4 1.6 c Auto Complete'

**Northing:**
349,310.60

**Easting:**
225,827.60

**Tide (feet):**
1.40



## Hole: P265 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:39:39 | 36.42 | 30.22 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 12:39:39 | 36.75 | 30.55 | 935 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:39:40 | 37.07 | 30.87 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:40 | 37.40 | 31.20 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:40 | 37.73 | 31.53 | 935 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 12:39:41 | 38.06 | 31.86 | 935 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 12:39:41 | 38.39 | 32.19 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 12:39:42 | 38.71 | 32.51 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 12:39:42 | 39.04 | 32.84 | 943 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 12:39:42 | 39.37 | 33.17 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:39:43 | 39.70 | 33.50 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:39:43 | 40.03 | 33.83 | 923 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 12:39:43 | 40.35 | 34.15 | 950 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 12:39:44 | 40.68 | 34.48 | 947 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 12:39:45 | 41.01 | 34.81 | 947 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 12:39:44 | 41.34 | 35.14 | 941 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 12:39:45 | 41.67 | 35.47 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:39:46 | 41.99 | 35.79 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 12:39:46 | 42.32 | 36.12 | 948 | 0.54 | 0.17 | 51.8 |
| 5/3/2015 12:39:46 | 42.65 | 36.45 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:39:47 | 42.98 | 36.78 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:39:47 | 43.31 | 37.11 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:39:48 | 43.64 | 37.44 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:39:48 | 43.96 | 37.76 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:39:48 | 44.29 | 38.09 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:49 | 44.62 | 38.42 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 12:39:49 | 44.95 | 38.75 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 12:39:49 | 45.28 | 39.08 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:50 | 45.60 | 39.40 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:50 | 45.93 | 39.73 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:39:51 | 46.26 | 40.06 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:39:51 | 46.59 | 40.39 | 917 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:51 | 46.92 | 40.72 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:39:52 | 47.24 | 41.04 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:39:52 | 47.57 | 41.37 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:39:52 | 47.90 | 41.70 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 12:39:53 | 48.23 | 42.03 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:39:53 | 48.56 | 42.36 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:39:54 | 48.88 | 42.68 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:39:54 | 49.21 | 43.01 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:54 | 49.54 | 43.34 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:55 | 49.87 | 43.67 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:55 | 50.20 | 44.00 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:55 | 50.53 | 44.33 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 12:39:56 | 50.85 | 44.65 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 12:39:56 | 51.18 | 44.98 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:39:57 | 51.51 | 45.31 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:39:57 | 51.84 | 45.64 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:39:58 | 52.17 | 45.97 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 12:39:58 | 52.49 | 46.29 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:59 | 52.82 | 46.62 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 12:39:59 | 53.15 | 46.95 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:39:59 | 53.48 | 47.28 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 12:40:00 | 53.81 | 47.61 | 904 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 12:40:00 | 54.13 | 47.93 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 12:40:10 | 54.46 | 48.26 | 12 | 0.54 | 0.17 | 0.7 |
| 5/3/2015 12:40:11 | 54.79 | 48.59 | 135 | 0.54 | 0.17 | 7.4 |
| 5/3/2015 12:40:12 | 55.12 | 48.92 | 228 | 0.54 | 0.17 | 12.5 |
| 5/3/2015 12:40:12 | 55.45 | 49.25 | 364 | 0.54 | 0.17 | 19.9 |
| 5/3/2015 12:40:14 | 55.77 | 49.57 | 375 | 0.54 | 0.17 | 20.5 |
| 5/3/2015 12:40:15 | 56.10 | 49.90 | 284 | 0.54 | 0.17 | 15.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:40:16 | 56.43 | 50.23 | 325 | 0.54 | 0.17 | 17.8 |
| 5/3/2015 | 12:40:21 | 56.76 | 50.56 | 94 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 12:40:22 | 57.09 | 50.89 | 142 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 | 12:40:24 | 57.41 | 51.21 | 292 | 0.54 | 0.17 | 15.9 |
| 5/3/2015 | 12:40:24 | 57.74 | 51.54 | 289 | 0.54 | 0.17 | 15.8 |
| 5/3/2015 | 12:40:25 | 58.07 | 51.87 | 304 | 0.54 | 0.17 | 16.6 |
| 5/3/2015 | 12:40:27 | 58.40 | 52.20 | 333 | 0.54 | 0.17 | 18.2 |
| 5/3/2015 | 12:40:31 | 58.73 | 52.53 | 53 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 12:40:33 | 59.06 | 52.86 | 160 | 0.54 | 0.17 | 8.8 |
| 5/3/2015 | 12:40:34 | 59.38 | 53.18 | 242 | 0.54 | 0.17 | 13.2 |
| 5/3/2015 | 12:40:36 | 59.71 | 53.51 | 204 | 0.54 | 0.17 | 11.1 |
| 5/3/2015 | 12:40:38 | 60.04 | 53.84 | 185 | 0.54 | 0.17 | 10.1 |
| 5/3/2015 | 12:40:38 | 60.37 | 54.17 | 259 | 0.54 | 0.17 | 14.2 |
| 5/3/2015 | 12:40:39 | 60.70 | 54.50 | 340 | 0.54 | 0.17 | 18.6 |
| 5/3/2015 | 12:40:41 | 61.02 | 54.82 | 227 | 0.54 | 0.17 | 12.4 |
| 5/3/2015 | 12:40:42 | 61.35 | 55.15 | 231 | 0.54 | 0.17 | 12.6 |

## P265 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:37:45

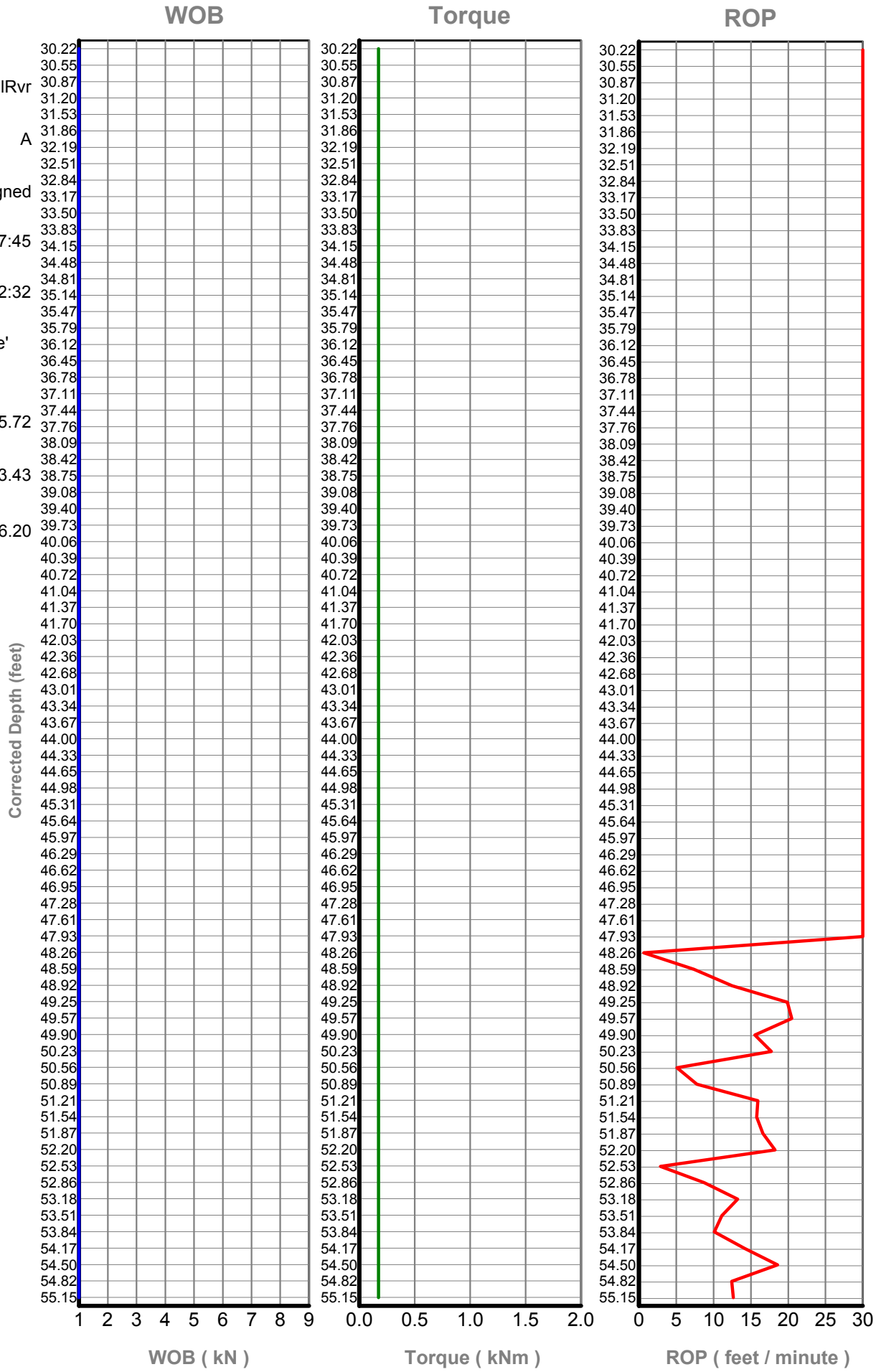
**End Date:**
5/3/2015 12:42:32

**Operator Note:**
'6.2 6.1 a Auto Complete'

**Northing:**
348,565.72

**Easting:**
224,793.43

**Tide (feet):**
6.20



## Hole: P266 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:38:57 | 36.42 | 30.22 | 1,309 | 0.27 | 0.39 | 71.6 |
| 5/3/2015 12:38:57 | 36.75 | 30.55 | 1,309 | 0.27 | 0.39 | 71.6 |
| 5/3/2015 12:38:57 | 37.07 | 30.87 | 1,309 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 12:38:58 | 37.40 | 31.20 | 1,309 | 0.26 | 0.39 | 71.6 |
| 5/3/2015 12:38:58 | 37.73 | 31.53 | 1,308 | 0.26 | 0.38 | 71.5 |
| 5/3/2015 12:38:58 | 38.06 | 31.86 | 1,308 | 0.26 | 0.38 | 71.5 |
| 5/3/2015 12:38:58 | 38.39 | 32.19 | 1,305 | 0.26 | 0.37 | 71.4 |
| 5/3/2015 12:38:59 | 38.71 | 32.51 | 1,305 | 0.26 | 0.37 | 71.4 |
| 5/3/2015 12:38:59 | 39.04 | 32.84 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 12:39:00 | 39.37 | 33.17 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 12:39:00 | 39.70 | 33.50 | 1,322 | 0.25 | 0.37 | 72.3 |
| 5/3/2015 12:39:00 | 40.03 | 33.83 | 1,322 | 0.25 | 0.37 | 72.3 |
| 5/3/2015 12:39:00 | 40.35 | 34.15 | 1,337 | 0.26 | 0.39 | 73.1 |
| 5/3/2015 12:39:01 | 40.68 | 34.48 | 1,337 | 0.26 | 0.39 | 73.1 |
| 5/3/2015 12:39:01 | 41.01 | 34.81 | 1,339 | 0.29 | 0.38 | 73.2 |
| 5/3/2015 12:39:01 | 41.34 | 35.14 | 1,339 | 0.29 | 0.38 | 73.2 |
| 5/3/2015 12:39:01 | 41.67 | 35.47 | 1,339 | 0.28 | 0.39 | 73.2 |
| 5/3/2015 12:39:02 | 41.99 | 35.79 | 1,339 | 0.28 | 0.39 | 73.2 |
| 5/3/2015 12:39:02 | 42.32 | 36.12 | 1,333 | 0.23 | 0.37 | 72.9 |
| 5/3/2015 12:39:02 | 42.65 | 36.45 | 1,333 | 0.23 | 0.37 | 72.9 |
| 5/3/2015 12:39:02 | 42.98 | 36.78 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 12:39:03 | 43.31 | 37.11 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 12:39:03 | 43.64 | 37.44 | 1,336 | 0.26 | 0.39 | 73.0 |
| 5/3/2015 12:39:03 | 43.96 | 37.76 | 1,336 | 0.26 | 0.39 | 73.0 |
| 5/3/2015 12:39:03 | 44.29 | 38.09 | 1,336 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 12:39:04 | 44.62 | 38.42 | 1,336 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 12:39:04 | 44.95 | 38.75 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 12:39:04 | 45.28 | 39.08 | 1,336 | 0.26 | 0.37 | 73.0 |
| 5/3/2015 12:39:04 | 45.60 | 39.40 | 1,300 | 0.26 | 0.37 | 71.1 |
| 5/3/2015 12:39:05 | 45.93 | 39.73 | 1,300 | 0.26 | 0.37 | 71.1 |
| 5/3/2015 12:39:05 | 46.26 | 40.06 | 1,300 | 0.26 | 0.37 | 71.1 |
| 5/3/2015 12:39:05 | 46.59 | 40.39 | 1,322 | 0.26 | 0.40 | 72.3 |
| 5/3/2015 12:39:06 | 46.92 | 40.72 | 1,322 | 0.26 | 0.40 | 72.3 |
| 5/3/2015 12:39:06 | 47.24 | 41.04 | 1,298 | 0.26 | 0.38 | 71.0 |
| 5/3/2015 12:39:06 | 47.57 | 41.37 | 1,298 | 0.26 | 0.38 | 71.0 |
| 5/3/2015 12:39:06 | 47.90 | 41.70 | 1,298 | 0.26 | 0.38 | 71.0 |
| 5/3/2015 12:39:07 | 48.23 | 42.03 | 1,298 | 0.26 | 0.38 | 71.0 |
| 5/3/2015 12:39:07 | 48.56 | 42.36 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 12:39:07 | 48.88 | 42.68 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 12:39:07 | 49.21 | 43.01 | 1,314 | 0.26 | 0.37 | 71.9 |
| 5/3/2015 12:39:08 | 49.54 | 43.34 | 1,314 | 0.26 | 0.37 | 71.9 |
| 5/3/2015 12:39:08 | 49.87 | 43.67 | 1,342 | 0.26 | 0.39 | 73.4 |
| 5/3/2015 12:39:08 | 50.20 | 44.00 | 1,342 | 0.26 | 0.39 | 73.4 |
| 5/3/2015 12:39:08 | 50.53 | 44.33 | 1,328 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 12:39:09 | 50.85 | 44.65 | 1,328 | 0.26 | 0.38 | 72.6 |
| 5/3/2015 12:39:09 | 51.18 | 44.98 | 1,349 | 0.26 | 0.39 | 73.8 |
| 5/3/2015 12:39:09 | 51.51 | 45.31 | 1,349 | 0.26 | 0.39 | 73.8 |
| 5/3/2015 12:39:09 | 51.84 | 45.64 | 1,343 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 12:39:10 | 52.17 | 45.97 | 1,343 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 12:39:10 | 52.49 | 46.29 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 12:39:11 | 52.82 | 46.62 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 12:39:11 | 53.15 | 46.95 | 1,337 | 0.25 | 0.43 | 73.1 |
| 5/3/2015 12:39:16 | 53.48 | 47.28 | 0 | 1.74 | 0.38 | 0.0 |
| 5/3/2015 12:39:17 | 53.81 | 47.61 | 43 | 1.76 | 0.38 | 2.3 |
| 5/3/2015 12:39:17 | 54.13 | 47.93 | 303 | 1.75 | 0.38 | 16.6 |
| 5/3/2015 12:39:18 | 54.46 | 48.26 | 303 | 1.75 | 0.38 | 16.6 |
| 5/3/2015 12:39:18 | 54.79 | 48.59 | 565 | 2.04 | 0.40 | 30.9 |
| 5/3/2015 12:39:18 | 55.12 | 48.92 | 565 | 2.04 | 0.40 | 30.9 |
| 5/3/2015 12:39:19 | 55.45 | 49.25 | 841 | 2.62 | 0.48 | 46.0 |
| 5/3/2015 12:39:23 | 55.77 | 49.57 | 101 | 4.38 | 0.48 | 5.5 |
| 5/3/2015 12:39:28 | 56.10 | 49.90 | 49 | 4.30 | 0.46 | 2.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:39:30 | 56.43 | 50.23 | 96 | 4.05 | 0.48 | 5.2 |
| 5/3/2015 | 12:39:32 | 56.76 | 50.56 | 226 | 3.99 | 0.46 | 12.3 |
| 5/3/2015 | 12:39:33 | 57.09 | 50.89 | 292 | 3.13 | 0.43 | 16.0 |
| 5/3/2015 | 12:39:34 | 57.41 | 51.21 | 356 | 2.30 | 0.43 | 19.5 |
| 5/3/2015 | 12:39:34 | 57.74 | 51.54 | 452 | 2.42 | 0.43 | 24.7 |
| 5/3/2015 | 12:39:35 | 58.07 | 51.87 | 537 | 2.88 | 0.45 | 29.4 |
| 5/3/2015 | 12:39:36 | 58.40 | 52.20 | 574 | 3.02 | 0.48 | 31.4 |
| 5/3/2015 | 12:39:37 | 58.73 | 52.53 | 298 | 2.76 | 0.47 | 16.3 |
| 5/3/2015 | 12:39:38 | 59.06 | 52.86 | 254 | 2.42 | 0.46 | 13.9 |
| 5/3/2015 | 12:39:40 | 59.38 | 53.18 | 275 | 3.10 | 0.49 | 15.0 |
| 5/3/2015 | 12:39:42 | 59.71 | 53.51 | 140 | 5.89 | 0.46 | 7.6 |
| 5/3/2015 | 12:39:43 | 60.04 | 53.84 | 204 | 3.57 | 0.46 | 11.2 |
| 5/3/2015 | 12:39:44 | 60.37 | 54.17 | 326 | 3.26 | 0.46 | 17.8 |
| 5/3/2015 | 12:39:45 | 60.70 | 54.50 | 387 | 4.23 | 0.48 | 21.2 |
| 5/3/2015 | 12:39:57 | 61.02 | 54.82 | 20 | 2.36 | 0.48 | 1.1 |
| 5/3/2015 | 12:39:58 | 61.06 | 54.86 | 23 | 2.34 | 0.49 | 1.3 |

## P266 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:37:26

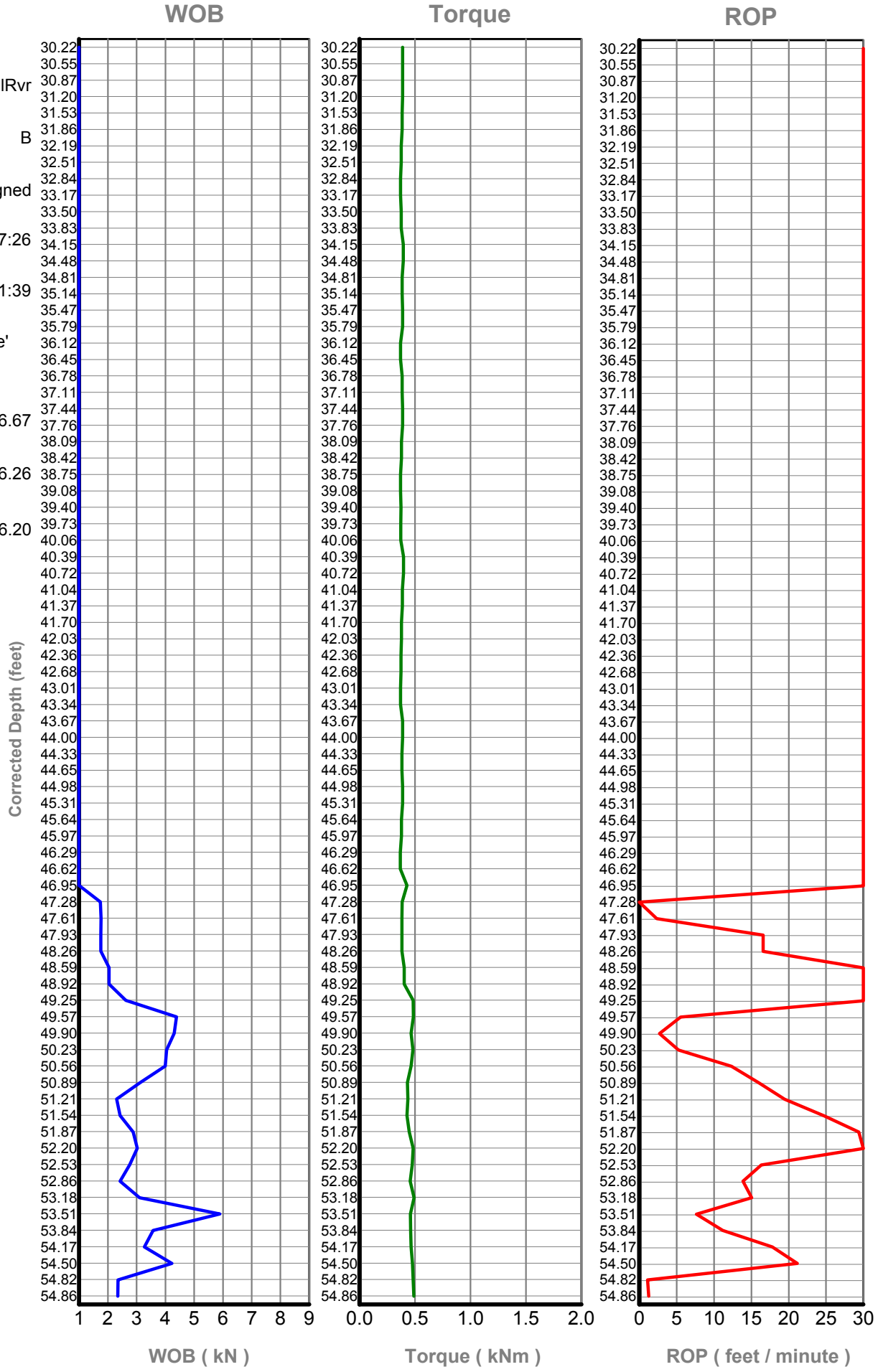
**End Date:**
5/3/2015 12:41:39

**Operator Note:**
'6.2 6.1 b Auto Complete'

**Northing:**
348,606.67

**Easting:**
224,856.26

**Tide (feet):**
6.20



## Hole: P267 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:39:13 | 36.42 | 30.22 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:39:14 | 36.75 | 30.55 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:14 | 37.07 | 30.87 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:14 | 37.40 | 31.20 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:15 | 37.73 | 31.53 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:15 | 38.06 | 31.86 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:39:15 | 38.39 | 32.19 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:16 | 38.71 | 32.51 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:16 | 39.04 | 32.84 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 12:39:16 | 39.37 | 33.17 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 12:39:16 | 39.70 | 33.50 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 12:39:17 | 40.03 | 33.83 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 12:39:17 | 40.35 | 34.15 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 12:39:17 | 40.68 | 34.48 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:39:18 | 41.01 | 34.81 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:39:18 | 41.34 | 35.14 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:39:18 | 41.67 | 35.47 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:39:19 | 41.99 | 35.79 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:39:19 | 42.32 | 36.12 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 12:39:19 | 42.65 | 36.45 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 12:39:20 | 42.98 | 36.78 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 12:39:20 | 43.31 | 37.11 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 12:39:20 | 43.64 | 37.44 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 12:39:20 | 43.96 | 37.76 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 12:39:21 | 44.29 | 38.09 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 12:39:21 | 44.62 | 38.42 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 12:39:21 | 44.95 | 38.75 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 12:39:22 | 45.28 | 39.08 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 12:39:22 | 45.60 | 39.40 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 12:39:23 | 45.93 | 39.73 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 12:39:23 | 46.26 | 40.06 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 12:39:23 | 46.59 | 40.39 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 12:39:23 | 46.92 | 40.72 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 12:39:24 | 47.24 | 41.04 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 12:39:24 | 47.57 | 41.37 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 12:39:25 | 47.90 | 41.70 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 12:39:25 | 48.23 | 42.03 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 12:39:25 | 48.56 | 42.36 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:26 | 48.88 | 42.68 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:39:26 | 49.21 | 43.01 | 1,109 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 12:39:26 | 49.54 | 43.34 | 1,118 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 12:39:27 | 49.87 | 43.67 | 1,118 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 12:39:27 | 50.20 | 44.00 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 12:39:27 | 50.53 | 44.33 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 12:39:28 | 50.85 | 44.65 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 12:39:28 | 51.18 | 44.98 | 1,105 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 12:39:28 | 51.51 | 45.31 | 1,105 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 12:39:28 | 51.84 | 45.64 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 12:39:29 | 52.17 | 45.97 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 12:39:29 | 52.49 | 46.29 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 12:39:29 | 52.82 | 46.62 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 12:39:30 | 53.15 | 46.95 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 12:39:30 | 53.48 | 47.28 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 12:39:30 | 53.81 | 47.61 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 12:39:38 | 54.13 | 47.93 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 12:39:39 | 54.46 | 48.26 | 105 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 12:39:40 | 54.79 | 48.59 | 197 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 12:39:41 | 55.12 | 48.92 | 197 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 12:39:41 | 55.45 | 49.25 | 278 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 12:39:42 | 55.77 | 49.57 | 433 | 1.14 | 0.29 | 23.7 |
| 5/3/2015 12:39:43 | 56.10 | 49.90 | 513 | 1.14 | 0.29 | 28.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:39:43 | 56.43 | 50.23 | 522 | 1.14 | 0.29 | 28.6 |
| 5/3/2015 | 12:39:50 | 56.76 | 50.56 | 121 | 1.14 | 0.29 | 6.6 |
| 5/3/2015 | 12:39:51 | 57.09 | 50.89 | 255 | 1.14 | 0.29 | 13.9 |
| 5/3/2015 | 12:39:53 | 57.41 | 51.21 | 169 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 | 12:39:54 | 57.74 | 51.54 | 169 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 | 12:39:55 | 58.07 | 51.87 | 269 | 1.14 | 0.29 | 14.7 |
| 5/3/2015 | 12:40:10 | 58.40 | 52.20 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 | 12:40:26 | 58.73 | 52.53 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 12:40:41 | 59.06 | 52.86 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 12:40:56 | 59.38 | 53.18 | 26 | 1.14 | 0.29 | 1.4 |

## P267 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:37:38

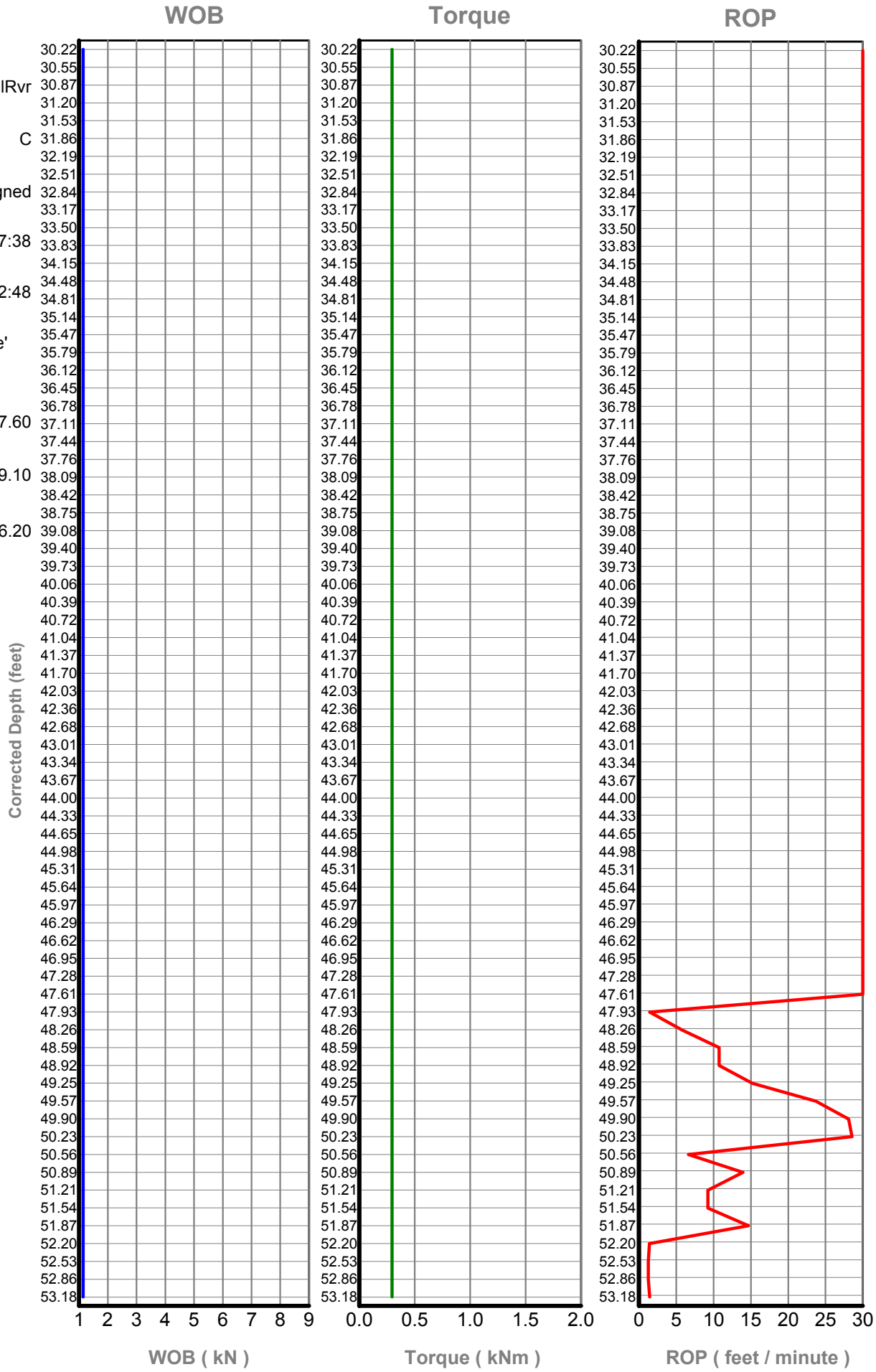
**End Date:**
5/3/2015 12:42:48

**Operator Note:**
'6.2 6.1 c Auto Complete'

**Northing:**
348,647.60

**Easting:**
224,919.10

**Tide (feet):**
6.20



## Hole: P268 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:00:17 | 36.09 | 30.09 | 983 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 12:00:17 | 36.42 | 30.42 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 12:00:18 | 36.75 | 30.75 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 12:00:18 | 37.07 | 31.07 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:18 | 37.40 | 31.40 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:19 | 37.73 | 31.73 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:20 | 38.06 | 32.06 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:20 | 38.39 | 32.39 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 12:00:20 | 38.71 | 32.71 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:21 | 39.04 | 33.04 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:21 | 39.37 | 33.37 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 12:00:21 | 39.70 | 33.70 | 977 | 0.54 | 0.17 | 53.4 |
| 5/3/2015 12:00:22 | 40.03 | 34.03 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:00:22 | 40.35 | 34.35 | 974 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:00:22 | 40.68 | 34.68 | 983 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 12:00:23 | 41.01 | 35.01 | 984 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 12:00:23 | 41.34 | 35.34 | 984 | 0.54 | 0.17 | 53.8 |
| 5/3/2015 12:00:23 | 41.67 | 35.67 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 12:00:24 | 41.99 | 35.99 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 12:00:24 | 42.32 | 36.32 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 12:00:24 | 42.65 | 36.65 | 992 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 12:00:25 | 42.98 | 36.98 | 964 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:00:25 | 43.31 | 37.31 | 964 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:00:26 | 43.64 | 37.64 | 964 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:00:26 | 43.96 | 37.96 | 970 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:26 | 44.29 | 38.29 | 965 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:00:27 | 44.62 | 38.62 | 965 | 0.54 | 0.17 | 52.7 |
| 5/3/2015 12:00:27 | 44.95 | 38.95 | 970 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:27 | 45.28 | 39.28 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:00:28 | 45.60 | 39.60 | 956 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:00:28 | 45.93 | 39.93 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 12:00:28 | 46.26 | 40.26 | 972 | 0.54 | 0.17 | 53.2 |
| 5/3/2015 12:00:29 | 46.59 | 40.59 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:00:29 | 46.92 | 40.92 | 969 | 0.54 | 0.17 | 53.0 |
| 5/3/2015 12:00:29 | 47.24 | 41.24 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:00:30 | 47.57 | 41.57 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:00:30 | 47.90 | 41.90 | 975 | 0.54 | 0.17 | 53.3 |
| 5/3/2015 12:00:30 | 48.23 | 42.23 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 12:00:31 | 48.56 | 42.56 | 987 | 0.54 | 0.17 | 54.0 |
| 5/3/2015 12:00:32 | 48.88 | 42.88 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:32 | 49.21 | 43.21 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:32 | 49.54 | 43.54 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:00:33 | 49.87 | 43.87 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:00:33 | 50.20 | 44.20 | 962 | 0.54 | 0.17 | 52.6 |
| 5/3/2015 12:00:33 | 50.53 | 44.53 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:34 | 50.85 | 44.85 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:00:34 | 51.18 | 45.18 | 957 | 0.54 | 0.17 | 52.3 |
| 5/3/2015 12:00:34 | 51.51 | 45.51 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 12:00:35 | 51.84 | 45.84 | 971 | 0.54 | 0.17 | 53.1 |
| 5/3/2015 12:00:35 | 52.17 | 46.17 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 12:00:36 | 52.49 | 46.49 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 12:00:36 | 52.82 | 46.82 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 12:00:36 | 53.15 | 47.15 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 12:00:37 | 53.48 | 47.48 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 12:00:37 | 53.81 | 47.81 | 880 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 12:00:41 | 54.13 | 48.13 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 12:00:46 | 54.46 | 48.46 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 12:00:54 | 54.79 | 48.79 | 24 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 12:00:57 | 55.12 | 49.12 | 109 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 12:00:58 | 55.45 | 49.45 | 186 | 0.54 | 0.17 | 10.2 |
| 5/3/2015 12:01:00 | 55.77 | 49.77 | 291 | 0.54 | 0.17 | 15.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:01:00 | 56.10 | 50.10 | 348 | 0.54 | 0.17 | 19.0 |
| 5/3/2015 | 12:01:01 | 56.43 | 50.43 | 384 | 0.54 | 0.17 | 21.0 |
| 5/3/2015 | 12:01:02 | 56.76 | 50.76 | 491 | 0.54 | 0.17 | 26.8 |
| 5/3/2015 | 12:01:02 | 57.09 | 51.09 | 511 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 | 12:01:03 | 57.41 | 51.41 | 463 | 0.54 | 0.17 | 25.3 |
| 5/3/2015 | 12:01:04 | 57.74 | 51.74 | 401 | 0.54 | 0.17 | 21.9 |
| 5/3/2015 | 12:01:05 | 58.07 | 52.07 | 358 | 0.54 | 0.17 | 19.6 |
| 5/3/2015 | 12:01:08 | 58.40 | 52.40 | 146 | 0.54 | 0.17 | 8.0 |
| 5/3/2015 | 12:01:11 | 58.73 | 52.73 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 | 12:01:20 | 59.06 | 53.06 | 38 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 | 12:01:32 | 59.38 | 53.38 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 | 12:01:45 | 59.71 | 53.71 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 12:01:57 | 60.04 | 54.04 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 12:02:01 | 60.16 | 54.16 | 27 | 0.54 | 0.17 | 1.5 |

## P268 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:57:32

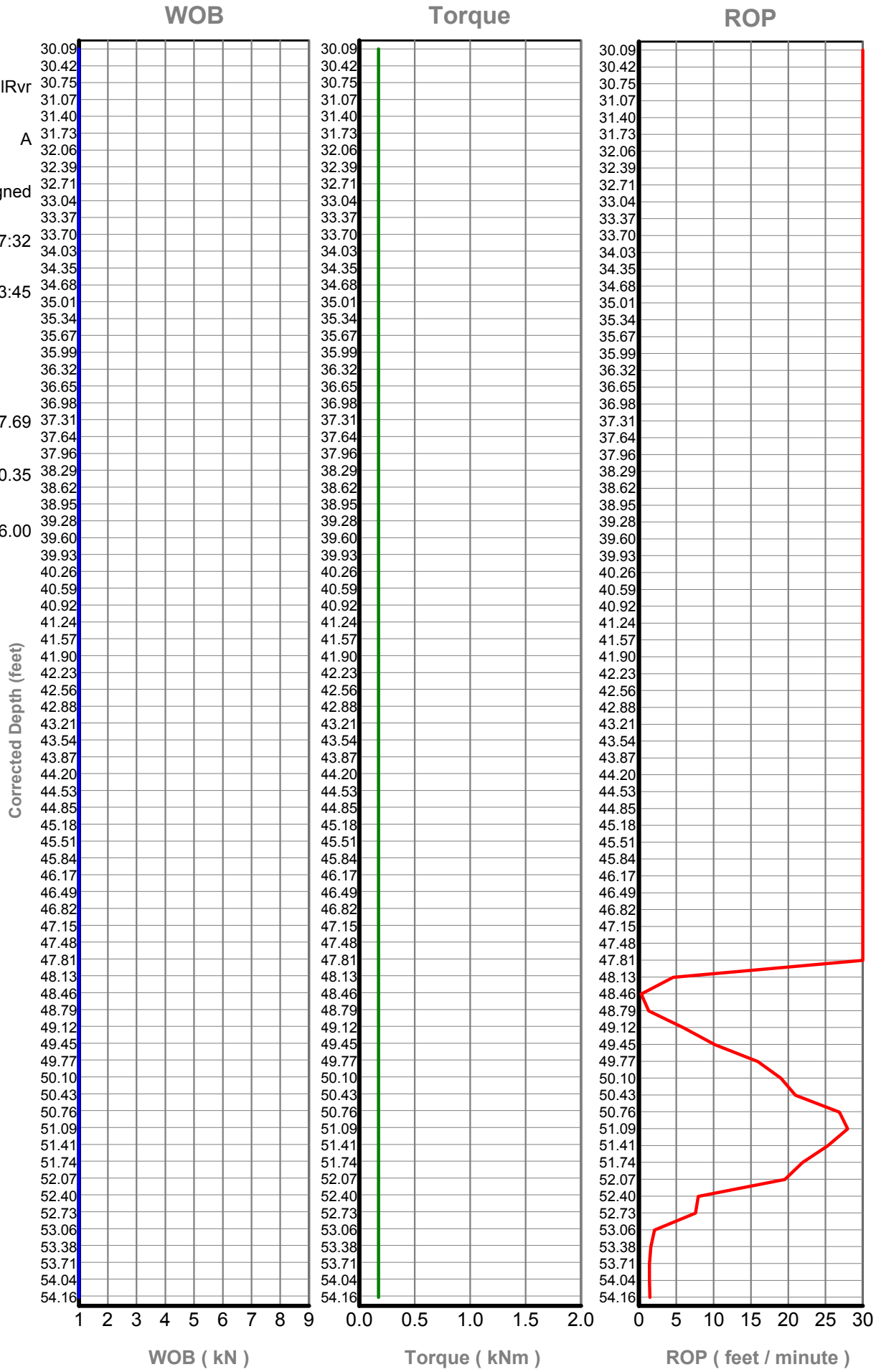
**End Date:**
5/3/2015 12:03:45

**Operator Note:**
'6 5.9 a Auto Complete'

**Northing:**
348,687.69

**Easting:**
224,980.35

**Tide (feet):**
6.00



## Hole: P269 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:58:42 | 36.09 | 30.09 | 1,343 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 11:58:42 | 36.42 | 30.42 | 1,345 | 0.25 | 0.37 | 73.6 |
| 5/3/2015 11:58:42 | 36.75 | 30.75 | 1,345 | 0.25 | 0.37 | 73.6 |
| 5/3/2015 11:58:42 | 37.07 | 31.07 | 1,335 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 11:58:43 | 37.40 | 31.40 | 1,335 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 11:58:43 | 37.73 | 31.73 | 1,370 | 0.26 | 0.38 | 74.9 |
| 5/3/2015 11:58:44 | 38.06 | 32.06 | 1,370 | 0.26 | 0.38 | 74.9 |
| 5/3/2015 11:58:43 | 38.39 | 32.39 | 1,350 | 0.26 | 0.39 | 73.8 |
| 5/3/2015 11:58:44 | 38.71 | 32.71 | 1,350 | 0.26 | 0.39 | 73.8 |
| 5/3/2015 11:58:44 | 39.04 | 33.04 | 1,359 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 11:58:45 | 39.37 | 33.37 | 1,359 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 11:58:44 | 39.70 | 33.70 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/3/2015 11:58:45 | 40.03 | 34.03 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/3/2015 11:58:45 | 40.35 | 34.35 | 1,361 | 0.26 | 0.37 | 74.4 |
| 5/3/2015 11:58:46 | 40.68 | 34.68 | 1,361 | 0.26 | 0.37 | 74.4 |
| 5/3/2015 11:58:46 | 41.01 | 35.01 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/3/2015 11:58:46 | 41.34 | 35.34 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/3/2015 11:58:46 | 41.67 | 35.67 | 1,358 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 11:58:47 | 41.99 | 35.99 | 1,358 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 11:58:46 | 42.32 | 36.32 | 1,356 | 0.27 | 0.39 | 74.1 |
| 5/3/2015 11:58:47 | 42.65 | 36.65 | 1,356 | 0.27 | 0.39 | 74.1 |
| 5/3/2015 11:58:47 | 42.98 | 36.98 | 1,361 | 0.26 | 0.39 | 74.5 |
| 5/3/2015 11:58:48 | 43.31 | 37.31 | 1,361 | 0.26 | 0.39 | 74.5 |
| 5/3/2015 11:58:48 | 43.64 | 37.64 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/3/2015 11:58:48 | 43.96 | 37.96 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/3/2015 11:58:48 | 44.29 | 38.29 | 1,364 | 0.22 | 0.37 | 74.6 |
| 5/3/2015 11:58:49 | 44.62 | 38.62 | 1,364 | 0.22 | 0.37 | 74.6 |
| 5/3/2015 11:58:49 | 44.95 | 38.95 | 1,359 | 0.31 | 0.39 | 74.3 |
| 5/3/2015 11:58:49 | 45.28 | 39.28 | 1,359 | 0.31 | 0.39 | 74.3 |
| 5/3/2015 11:58:49 | 45.60 | 39.60 | 1,353 | 0.24 | 0.37 | 74.0 |
| 5/3/2015 11:58:50 | 45.93 | 39.93 | 1,353 | 0.24 | 0.37 | 74.0 |
| 5/3/2015 11:58:50 | 46.26 | 40.26 | 1,338 | 0.28 | 0.37 | 73.2 |
| 5/3/2015 11:58:50 | 46.59 | 40.59 | 1,338 | 0.28 | 0.37 | 73.2 |
| 5/3/2015 11:58:50 | 46.92 | 40.92 | 1,338 | 0.30 | 0.37 | 73.2 |
| 5/3/2015 11:58:51 | 47.24 | 41.24 | 1,338 | 0.30 | 0.37 | 73.2 |
| 5/3/2015 11:58:51 | 47.57 | 41.57 | 1,324 | 0.29 | 0.38 | 72.4 |
| 5/3/2015 11:58:51 | 47.90 | 41.90 | 1,321 | 0.29 | 0.39 | 72.3 |
| 5/3/2015 11:58:52 | 48.23 | 42.23 | 1,321 | 0.29 | 0.39 | 72.3 |
| 5/3/2015 11:58:52 | 48.56 | 42.56 | 1,327 | 0.27 | 0.38 | 72.5 |
| 5/3/2015 11:58:52 | 48.88 | 42.88 | 1,327 | 0.27 | 0.38 | 72.5 |
| 5/3/2015 11:58:52 | 49.21 | 43.21 | 1,335 | 0.27 | 0.37 | 73.0 |
| 5/3/2015 11:58:53 | 49.54 | 43.54 | 1,335 | 0.27 | 0.37 | 73.0 |
| 5/3/2015 11:58:53 | 49.87 | 43.87 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 11:58:53 | 50.20 | 44.20 | 1,333 | 0.26 | 0.39 | 72.9 |
| 5/3/2015 11:58:54 | 50.53 | 44.53 | 1,341 | 0.27 | 0.38 | 73.3 |
| 5/3/2015 11:58:54 | 50.85 | 44.85 | 1,341 | 0.27 | 0.38 | 73.3 |
| 5/3/2015 11:58:54 | 51.18 | 45.18 | 1,349 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 11:58:55 | 51.51 | 45.51 | 1,349 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 11:58:55 | 51.84 | 45.84 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/3/2015 11:58:55 | 52.17 | 46.17 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/3/2015 11:58:55 | 52.49 | 46.49 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:58:56 | 52.82 | 46.82 | 1,339 | 0.26 | 0.38 | 73.2 |
| 5/3/2015 11:58:56 | 53.15 | 47.15 | 1,350 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 11:58:56 | 53.48 | 47.48 | 1,350 | 0.26 | 0.38 | 73.8 |
| 5/3/2015 11:58:56 | 53.81 | 47.81 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 11:58:57 | 54.13 | 48.13 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 11:58:57 | 54.46 | 48.46 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/3/2015 11:58:57 | 54.79 | 48.79 | 1,318 | 0.31 | 0.40 | 72.1 |
| 5/3/2015 11:58:57 | 55.12 | 49.12 | 1,289 | 0.26 | 0.39 | 70.5 |
| 5/3/2015 11:58:58 | 55.45 | 49.45 | 1,268 | 0.24 | 0.48 | 69.3 |
| 5/3/2015 11:59:10 | 55.77 | 49.77 | 9 | 2.74 | 0.47 | 0.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:59:15 | 56.10 | 50.10 | 52 | 2.90 | 0.48 | 2.9 |
| 5/3/2015 11:59:22 | 56.43 | 50.43 | 46 | 2.63 | 0.49 | 2.5 |
| 5/3/2015 11:59:31 | 56.76 | 50.76 | 38 | 2.16 | 0.48 | 2.1 |
| 5/3/2015 11:59:40 | 57.09 | 51.09 | 49 | 2.52 | 0.48 | 2.7 |
| 5/3/2015 11:59:42 | 57.18 | 51.18 | 35 | 2.61 | 0.49 | 1.9 |

## P269 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:57:03

**End Date:**
5/3/2015 12:01:16

**Operator Note:**
'6 5.9 b Rock'

**Northing:**
348,726.01

**Easting:**
225,044.82

**Tide (feet):**
6.00



## Hole: P27 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:18:02 | 33.79 | 30.19 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:18:02 | 34.12 | 30.52 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 15:18:03 | 34.45 | 30.85 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 15:18:03 | 34.78 | 31.18 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/2/2015 15:18:03 | 35.11 | 31.51 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:04 | 35.43 | 31.83 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:04 | 35.76 | 32.16 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:04 | 36.09 | 32.49 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:04 | 36.42 | 32.82 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/2/2015 15:18:05 | 36.75 | 33.15 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:18:05 | 37.07 | 33.47 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:18:05 | 37.40 | 33.80 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:06 | 37.73 | 34.13 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:06 | 38.06 | 34.46 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:06 | 38.39 | 34.79 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/2/2015 15:18:07 | 38.71 | 35.11 | 1,136 | 1.14 | 0.29 | 62.1 |
| 5/2/2015 15:18:07 | 39.04 | 35.44 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 15:18:07 | 39.37 | 35.77 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 15:18:08 | 39.70 | 36.10 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 15:18:08 | 40.03 | 36.43 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 15:18:08 | 40.35 | 36.75 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 15:18:08 | 40.68 | 37.08 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:09 | 41.01 | 37.41 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:09 | 41.34 | 37.74 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:18:09 | 41.67 | 38.07 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 15:18:10 | 41.99 | 38.39 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 15:18:10 | 42.32 | 38.72 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:11 | 42.65 | 39.05 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 15:18:11 | 42.98 | 39.38 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 15:18:11 | 43.31 | 39.71 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:18:12 | 43.64 | 40.04 | 1,126 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:18:12 | 43.96 | 40.36 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/2/2015 15:18:12 | 44.29 | 40.69 | 1,126 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:13 | 44.62 | 41.02 | 1,126 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:13 | 44.95 | 41.35 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:13 | 45.28 | 41.68 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/2/2015 15:18:14 | 45.60 | 42.00 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/2/2015 15:18:14 | 45.93 | 42.33 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:14 | 46.26 | 42.66 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:14 | 46.59 | 42.99 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:15 | 46.92 | 43.32 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:15 | 47.24 | 43.64 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:15 | 47.57 | 43.97 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:16 | 47.90 | 44.30 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/2/2015 15:18:16 | 48.23 | 44.63 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 15:18:30 | 48.56 | 44.96 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 15:18:30 | 48.88 | 45.28 | 148 | 1.14 | 0.29 | 8.1 |
| 5/2/2015 15:18:32 | 49.21 | 45.61 | 228 | 1.14 | 0.29 | 12.5 |
| 5/2/2015 15:18:41 | 49.54 | 45.94 | 33 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 15:18:48 | 49.87 | 46.27 | 66 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 15:18:58 | 50.20 | 46.60 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 15:19:08 | 50.53 | 46.93 | 32 | 1.14 | 0.29 | 1.7 |
| 5/2/2015 15:19:19 | 50.85 | 47.25 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 15:19:28 | 51.16 | 47.56 | 34 | 1.14 | 0.29 | 1.8 |

## P27 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:16:49

**End Date:**
5/2/2015 15:20:45

**Operator Note:**
'3.6 3.7 c Auto Complete'

**Northing:**
349,880.50

**Easting:**
225,474.50

**Tide (feet):**
3.60



## Hole: P270 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 11:58:18 | 36.09 | 30.09 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 11:58:18 | 36.42 | 30.42 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 11:58:18 | 36.75 | 30.75 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 11:58:19 | 37.07 | 31.07 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:58:19 | 37.40 | 31.40 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:58:19 | 37.73 | 31.73 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 11:58:20 | 38.06 | 32.06 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 11:58:20 | 38.39 | 32.39 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 11:58:20 | 38.71 | 32.71 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 11:58:21 | 39.04 | 33.04 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:58:21 | 39.37 | 33.37 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 11:58:21 | 39.70 | 33.70 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 11:58:22 | 40.03 | 34.03 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 11:58:22 | 40.35 | 34.35 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 11:58:22 | 40.68 | 34.68 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 11:58:23 | 41.01 | 35.01 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 11:58:23 | 41.34 | 35.34 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 11:58:23 | 41.67 | 35.67 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 11:58:23 | 41.99 | 35.99 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 11:58:24 | 42.32 | 36.32 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 11:58:24 | 42.65 | 36.65 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 11:58:24 | 42.98 | 36.98 | 1,120 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 11:58:25 | 43.31 | 37.31 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:58:26 | 43.64 | 37.64 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 11:58:26 | 43.96 | 37.96 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 11:58:26 | 44.29 | 38.29 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 11:58:26 | 44.62 | 38.62 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 11:58:27 | 44.95 | 38.95 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 11:58:27 | 45.28 | 39.28 | 1,157 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 11:58:27 | 45.60 | 39.60 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:58:28 | 45.93 | 39.93 | 1,151 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 11:58:28 | 46.26 | 40.26 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 11:58:28 | 46.59 | 40.59 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:58:29 | 46.92 | 40.92 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 11:58:29 | 47.24 | 41.24 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:58:29 | 47.57 | 41.57 | 1,119 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:58:29 | 47.90 | 41.90 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 11:58:30 | 48.23 | 42.23 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:58:30 | 48.56 | 42.56 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:58:30 | 48.88 | 42.88 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:58:31 | 49.21 | 43.21 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 11:58:31 | 49.54 | 43.54 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/3/2015 11:58:31 | 49.87 | 43.87 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:58:32 | 50.20 | 44.20 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:58:32 | 50.53 | 44.53 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:58:32 | 50.85 | 44.85 | 1,141 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 11:58:32 | 51.18 | 45.18 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:58:33 | 51.51 | 45.51 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:58:33 | 51.84 | 45.84 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:58:33 | 52.17 | 46.17 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 11:58:34 | 52.49 | 46.49 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:58:34 | 52.82 | 46.82 | 1,120 | 1.14 | 0.29 | 61.2 |
| 5/3/2015 11:58:34 | 53.15 | 47.15 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 11:58:35 | 53.48 | 47.48 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 11:58:35 | 53.81 | 47.81 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 11:58:35 | 54.13 | 48.13 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 11:58:36 | 54.46 | 48.46 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/3/2015 11:58:36 | 54.79 | 48.79 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/3/2015 11:58:36 | 55.12 | 49.12 | 974 | 1.14 | 0.29 | 53.3 |
| 5/3/2015 11:58:52 | 55.45 | 49.45 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 11:58:52 | 55.77 | 49.77 | 152 | 1.14 | 0.29 | 8.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 11:58:53 | 56.10 | 50.10 | 267 | 1.14 | 0.29 | 14.6 |
| 5/3/2015 11:58:53 | 56.43 | 50.43 | 393 | 1.14 | 0.29 | 21.5 |
| 5/3/2015 11:58:54 | 56.76 | 50.76 | 613 | 1.14 | 0.29 | 33.5 |
| 5/3/2015 11:58:55 | 57.09 | 51.09 | 610 | 1.14 | 0.29 | 33.4 |
| 5/3/2015 11:58:55 | 57.41 | 51.41 | 616 | 1.14 | 0.29 | 33.7 |
| 5/3/2015 11:58:56 | 57.74 | 51.74 | 599 | 1.14 | 0.29 | 32.8 |
| 5/3/2015 11:58:57 | 58.07 | 52.07 | 499 | 1.14 | 0.29 | 27.3 |
| 5/3/2015 11:58:58 | 58.40 | 52.40 | 350 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 11:58:59 | 58.73 | 52.73 | 319 | 1.14 | 0.29 | 17.4 |
| 5/3/2015 11:59:00 | 59.06 | 53.06 | 367 | 1.14 | 0.29 | 20.0 |
| 5/3/2015 11:59:07 | 59.38 | 53.38 | 69 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 11:59:14 | 59.71 | 53.71 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 11:59:25 | 60.04 | 54.04 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 11:59:37 | 60.37 | 54.37 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 11:59:47 | 60.70 | 54.70 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 11:59:53 | 60.89 | 54.89 | 32 | 1.14 | 0.29 | 1.8 |

## P270 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 11:57:13

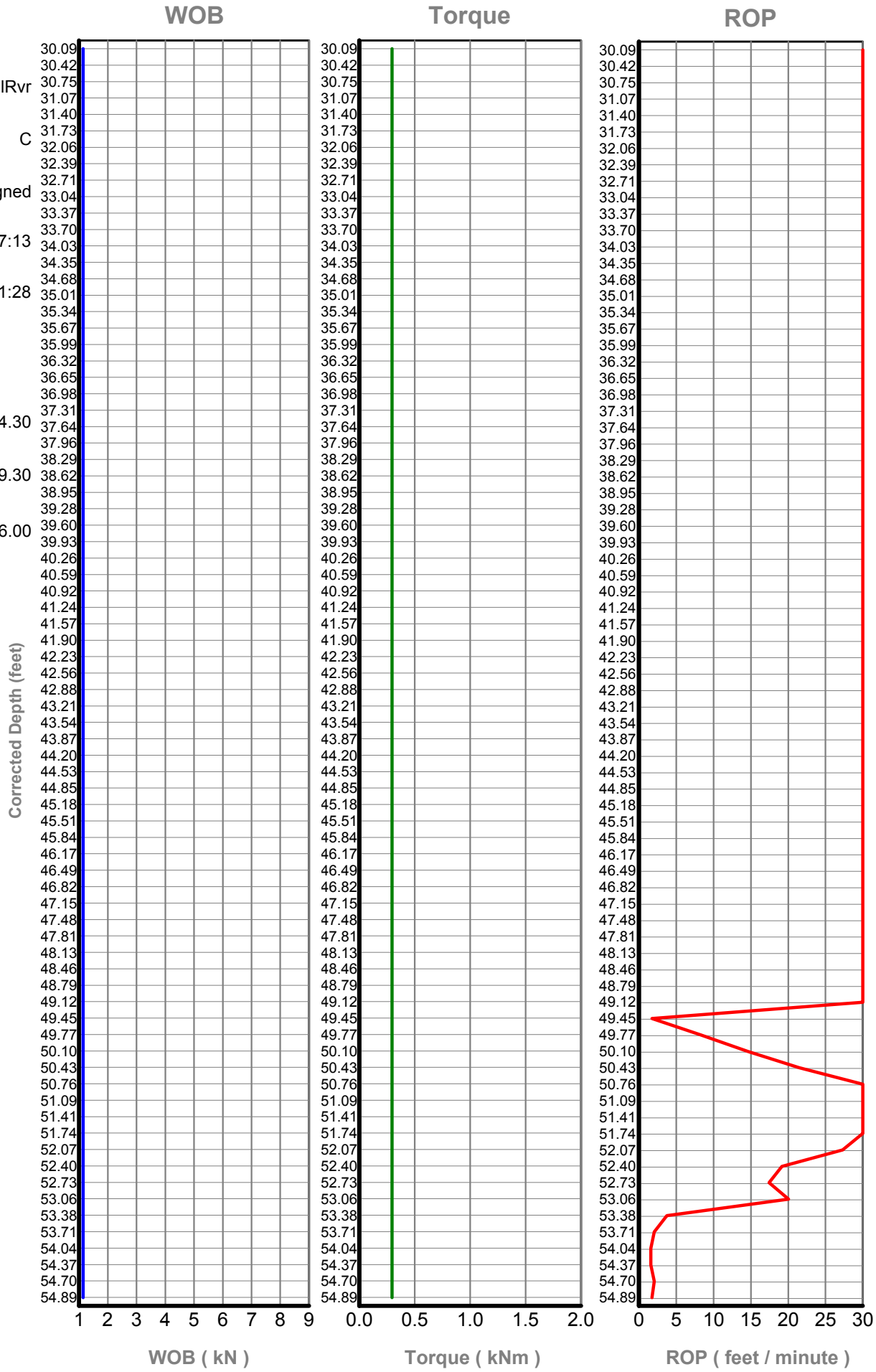
**End Date:**
5/3/2015 12:01:28

**Operator Note:**
'6 5.9 c Auto Complete'

**Northing:**
348,764.30

**Easting:**
225,109.30

**Tide (feet):**
6.00



## Hole: P271 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:50:53 | 37.40 | 30.20 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 0:50:53 | 37.73 | 30.53 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 0:50:53 | 38.06 | 30.86 | 879 | 0.54 | 0.17 | 48.1 |
| 5/3/2015 0:50:54 | 38.39 | 31.19 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 0:50:54 | 38.71 | 31.51 | 868 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 0:50:55 | 39.04 | 31.84 | 778 | 0.54 | 0.17 | 42.5 |
| 5/3/2015 0:50:56 | 39.37 | 32.17 | 778 | 0.54 | 0.17 | 42.5 |
| 5/3/2015 0:50:56 | 39.70 | 32.50 | 778 | 0.54 | 0.17 | 42.5 |
| 5/3/2015 0:50:56 | 40.03 | 32.83 | 775 | 0.54 | 0.17 | 42.4 |
| 5/3/2015 0:50:57 | 40.35 | 33.15 | 775 | 0.54 | 0.17 | 42.4 |
| 5/3/2015 0:50:57 | 40.68 | 33.48 | 848 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 0:50:58 | 41.01 | 33.81 | 848 | 0.54 | 0.17 | 46.4 |
| 5/3/2015 0:50:58 | 41.34 | 34.14 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 0:50:58 | 41.67 | 34.47 | 1,051 | 0.54 | 0.17 | 57.5 |
| 5/3/2015 0:50:59 | 41.99 | 34.79 | 1,051 | 0.54 | 0.17 | 57.5 |
| 5/3/2015 0:50:59 | 42.32 | 35.12 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 0:50:59 | 42.65 | 35.45 | 1,240 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 0:50:59 | 42.98 | 35.78 | 1,312 | 0.54 | 0.17 | 71.7 |
| 5/3/2015 0:51:00 | 43.31 | 36.11 | 1,312 | 0.54 | 0.17 | 71.7 |
| 5/3/2015 0:51:00 | 43.64 | 36.44 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 0:51:00 | 43.96 | 36.76 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 0:51:00 | 44.29 | 37.09 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 0:51:01 | 44.62 | 37.42 | 1,330 | 0.54 | 0.17 | 72.7 |
| 5/3/2015 0:51:12 | 44.95 | 37.75 | 18 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 0:51:12 | 45.28 | 38.08 | 173 | 0.54 | 0.17 | 9.5 |
| 5/3/2015 0:51:13 | 45.60 | 38.40 | 173 | 0.54 | 0.17 | 9.5 |
| 5/3/2015 0:51:13 | 45.93 | 38.73 | 355 | 0.54 | 0.17 | 19.4 |
| 5/3/2015 0:51:13 | 46.26 | 39.06 | 605 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 0:51:14 | 46.59 | 39.39 | 605 | 0.54 | 0.17 | 33.1 |
| 5/3/2015 0:51:23 | 46.92 | 39.72 | 103 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 0:51:23 | 47.24 | 40.04 | 103 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 0:51:23 | 47.57 | 40.37 | 352 | 0.54 | 0.17 | 19.2 |
| 5/3/2015 0:51:24 | 47.90 | 40.70 | 352 | 0.54 | 0.17 | 19.2 |
| 5/3/2015 0:51:24 | 48.23 | 41.03 | 598 | 0.54 | 0.17 | 32.7 |
| 5/3/2015 0:51:24 | 48.56 | 41.36 | 598 | 0.54 | 0.17 | 32.7 |
| 5/3/2015 0:51:24 | 48.88 | 41.68 | 850 | 0.54 | 0.17 | 46.5 |
| 5/3/2015 0:51:25 | 49.21 | 42.01 | 850 | 0.54 | 0.17 | 46.5 |
| 5/3/2015 0:51:25 | 49.54 | 42.34 | 1,093 | 0.54 | 0.17 | 59.8 |
| 5/3/2015 0:51:25 | 49.87 | 42.67 | 1,093 | 0.54 | 0.17 | 59.8 |
| 5/3/2015 0:51:25 | 50.20 | 43.00 | 1,254 | 0.54 | 0.17 | 68.6 |
| 5/3/2015 0:51:26 | 50.53 | 43.33 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/3/2015 0:51:26 | 50.85 | 43.65 | 1,266 | 0.54 | 0.17 | 69.2 |
| 5/3/2015 0:51:26 | 51.18 | 43.98 | 1,254 | 0.54 | 0.17 | 68.6 |
| 5/3/2015 0:51:27 | 51.51 | 44.31 | 1,254 | 0.54 | 0.17 | 68.6 |
| 5/3/2015 0:51:27 | 51.84 | 44.64 | 1,254 | 0.54 | 0.17 | 68.6 |
| 5/3/2015 0:51:27 | 52.17 | 44.97 | 1,254 | 0.54 | 0.17 | 68.6 |
| 5/3/2015 0:51:27 | 52.49 | 45.29 | 1,268 | 0.54 | 0.17 | 69.3 |
| 5/3/2015 0:51:28 | 52.82 | 45.62 | 1,268 | 0.54 | 0.17 | 69.3 |
| 5/3/2015 0:51:28 | 53.15 | 45.95 | 1,257 | 0.54 | 0.17 | 68.7 |
| 5/3/2015 0:51:28 | 53.48 | 46.28 | 1,257 | 0.54 | 0.17 | 68.7 |
| 5/3/2015 0:51:28 | 53.81 | 46.61 | 1,252 | 0.54 | 0.17 | 68.5 |
| 5/3/2015 0:51:29 | 54.13 | 46.93 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 0:51:29 | 54.46 | 47.26 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 0:51:29 | 54.79 | 47.59 | 1,243 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 0:51:30 | 55.12 | 47.92 | 1,243 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 0:51:30 | 55.45 | 48.25 | 1,243 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 0:51:30 | 55.77 | 48.57 | 1,243 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 0:51:30 | 56.10 | 48.90 | 1,227 | 0.54 | 0.17 | 67.1 |
| 5/3/2015 0:51:31 | 56.43 | 49.23 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 0:51:31 | 56.76 | 49.56 | 1,214 | 0.54 | 0.17 | 66.4 |
| 5/3/2015 0:51:50 | 57.09 | 49.89 | 113 | 0.54 | 0.17 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:52:01 | 57.41 | 50.21 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 0:52:01 | 57.74 | 50.54 | 91 | 0.54 | 0.17 | 5.0 |
| 5/3/2015 | 0:52:02 | 58.07 | 50.87 | 262 | 0.54 | 0.17 | 14.3 |
| 5/3/2015 | 0:52:03 | 58.40 | 51.20 | 422 | 0.54 | 0.17 | 23.1 |
| 5/3/2015 | 0:52:03 | 58.73 | 51.53 | 546 | 0.54 | 0.17 | 29.8 |
| 5/3/2015 | 0:52:05 | 59.06 | 51.86 | 317 | 0.54 | 0.17 | 17.3 |
| 5/3/2015 | 0:52:06 | 59.38 | 52.18 | 317 | 0.54 | 0.17 | 17.3 |
| 5/3/2015 | 0:52:07 | 59.71 | 52.51 | 317 | 0.54 | 0.17 | 17.3 |
| 5/3/2015 | 0:52:06 | 60.04 | 52.84 | 338 | 0.54 | 0.17 | 18.5 |
| 5/3/2015 | 0:52:07 | 60.37 | 53.17 | 363 | 0.54 | 0.17 | 19.8 |
| 5/3/2015 | 0:52:07 | 60.70 | 53.50 | 460 | 0.54 | 0.17 | 25.1 |
| 5/3/2015 | 0:52:08 | 61.02 | 53.82 | 600 | 0.54 | 0.17 | 32.8 |
| 5/3/2015 | 0:52:09 | 61.35 | 54.15 | 765 | 0.54 | 0.17 | 41.8 |
| 5/3/2015 | 0:52:09 | 61.68 | 54.48 | 762 | 0.54 | 0.17 | 41.7 |
| 5/3/2015 | 0:52:11 | 62.01 | 54.81 | 431 | 0.54 | 0.17 | 23.6 |
| 5/3/2015 | 0:52:12 | 62.28 | 55.08 | 291 | 0.54 | 0.17 | 15.9 |

## P271 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:40:46

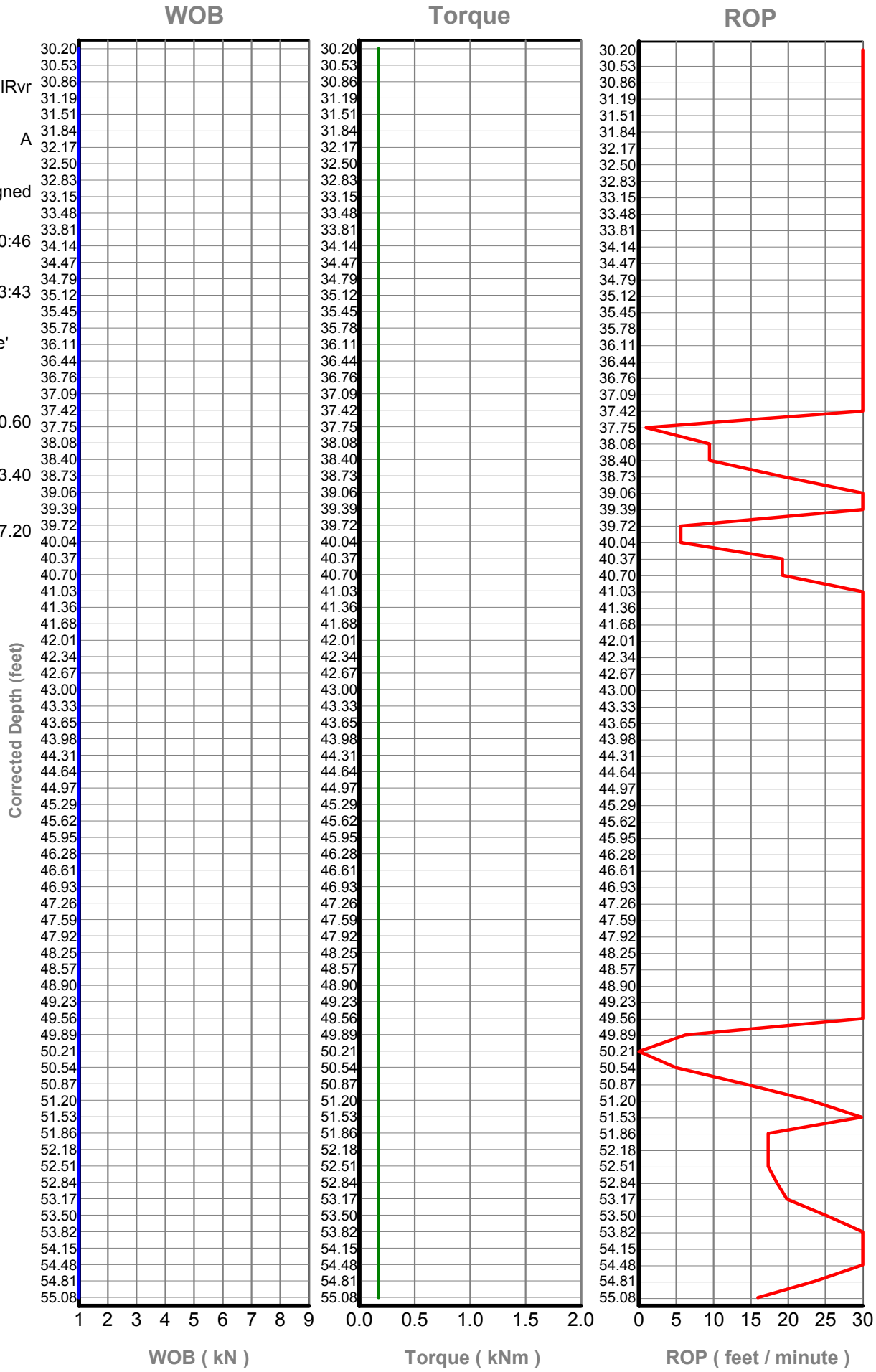
**End Date:**
5/3/2015 0:53:43

**Operator Note:**
'7.2 7.2 a Auto Complete'

**Northing:**
348,800.60

**Easting:**
225,163.40

**Tide (feet):**
7.20



## Hole: P272 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:51:25 | 37.40 | 30.30 | 1,217 | 0.31 | 0.39 | 66.6 |
| 5/3/2015 0:51:25 | 37.73 | 30.63 | 1,220 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 0:51:26 | 38.06 | 30.96 | 1,220 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 0:51:26 | 38.39 | 31.29 | 1,220 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 0:51:26 | 38.71 | 31.61 | 1,220 | 0.31 | 0.39 | 66.7 |
| 5/3/2015 0:51:26 | 39.04 | 31.94 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 0:51:27 | 39.37 | 32.27 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 0:51:27 | 39.70 | 32.60 | 1,232 | 0.31 | 0.40 | 67.3 |
| 5/3/2015 0:51:27 | 40.03 | 32.93 | 1,232 | 0.31 | 0.40 | 67.3 |
| 5/3/2015 0:51:27 | 40.35 | 33.25 | 1,232 | 0.31 | 0.38 | 67.3 |
| 5/3/2015 0:51:28 | 40.68 | 33.58 | 1,245 | 0.31 | 0.39 | 68.1 |
| 5/3/2015 0:51:28 | 41.01 | 33.91 | 1,245 | 0.31 | 0.39 | 68.1 |
| 5/3/2015 0:51:28 | 41.34 | 34.24 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 0:51:29 | 41.67 | 34.57 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/3/2015 0:51:29 | 41.99 | 34.89 | 1,232 | 0.31 | 0.38 | 67.3 |
| 5/3/2015 0:51:29 | 42.32 | 35.22 | 1,232 | 0.31 | 0.38 | 67.3 |
| 5/3/2015 0:51:29 | 42.65 | 35.55 | 1,232 | 0.31 | 0.39 | 67.3 |
| 5/3/2015 0:51:30 | 42.98 | 35.88 | 1,232 | 0.31 | 0.39 | 67.3 |
| 5/3/2015 0:51:30 | 43.31 | 36.21 | 1,231 | 0.31 | 0.39 | 67.3 |
| 5/3/2015 0:51:30 | 43.64 | 36.54 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:31 | 43.96 | 36.86 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:31 | 44.29 | 37.19 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:31 | 44.62 | 37.52 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:31 | 44.95 | 37.85 | 1,232 | 0.31 | 0.42 | 67.4 |
| 5/3/2015 0:51:32 | 45.28 | 38.18 | 1,232 | 0.31 | 0.42 | 67.4 |
| 5/3/2015 0:51:32 | 45.60 | 38.50 | 1,235 | 0.31 | 0.40 | 67.5 |
| 5/3/2015 0:51:33 | 45.93 | 38.83 | 1,235 | 0.31 | 0.40 | 67.5 |
| 5/3/2015 0:51:33 | 46.26 | 39.16 | 1,233 | 0.31 | 0.39 | 67.4 |
| 5/3/2015 0:51:33 | 46.59 | 39.49 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:34 | 46.92 | 39.82 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:34 | 47.24 | 40.14 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 0:51:34 | 47.57 | 40.47 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 0:51:34 | 47.90 | 40.80 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:35 | 48.23 | 41.13 | 1,229 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 0:51:35 | 48.56 | 41.46 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 0:51:35 | 48.88 | 41.78 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 0:51:36 | 49.21 | 42.11 | 1,226 | 0.31 | 0.39 | 67.0 |
| 5/3/2015 0:51:36 | 49.54 | 42.44 | 1,218 | 0.31 | 0.39 | 66.6 |
| 5/3/2015 0:51:36 | 49.87 | 42.77 | 1,218 | 0.31 | 0.39 | 66.6 |
| 5/3/2015 0:51:36 | 50.20 | 43.10 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 0:51:37 | 50.53 | 43.43 | 1,229 | 0.31 | 0.39 | 67.2 |
| 5/3/2015 0:51:37 | 50.85 | 43.75 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/3/2015 0:51:37 | 51.18 | 44.08 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/3/2015 0:51:37 | 51.51 | 44.41 | 1,226 | 0.30 | 0.39 | 67.0 |
| 5/3/2015 0:51:38 | 51.84 | 44.74 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/3/2015 0:51:38 | 52.17 | 45.07 | 1,226 | 0.31 | 0.40 | 67.0 |
| 5/3/2015 0:51:38 | 52.49 | 45.39 | 1,226 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 0:51:39 | 52.82 | 45.72 | 1,226 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 0:51:39 | 53.15 | 46.05 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 0:51:39 | 53.48 | 46.38 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 0:51:39 | 53.81 | 46.71 | 1,220 | 0.31 | 0.40 | 66.7 |
| 5/3/2015 0:51:40 | 54.13 | 47.03 | 1,207 | 0.31 | 0.39 | 66.0 |
| 5/3/2015 0:51:40 | 54.46 | 47.36 | 1,207 | 0.31 | 0.39 | 66.0 |
| 5/3/2015 0:51:40 | 54.79 | 47.69 | 1,190 | 0.31 | 0.40 | 65.1 |
| 5/3/2015 0:51:41 | 55.12 | 48.02 | 1,190 | 0.31 | 0.40 | 65.1 |
| 5/3/2015 0:51:41 | 55.45 | 48.35 | 1,155 | 0.31 | 0.40 | 63.2 |
| 5/3/2015 0:51:41 | 55.77 | 48.67 | 1,155 | 0.31 | 0.40 | 63.2 |
| 5/3/2015 0:51:42 | 56.10 | 49.00 | 1,155 | 0.31 | 0.40 | 63.2 |
| 5/3/2015 0:51:42 | 56.43 | 49.33 | 1,129 | 0.31 | 0.40 | 61.7 |
| 5/3/2015 0:51:42 | 56.76 | 49.66 | 1,103 | 0.31 | 0.41 | 60.3 |
| 5/3/2015 0:51:43 | 57.09 | 49.99 | 1,103 | 0.31 | 0.41 | 60.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:51:43 | 57.41 | 50.31 | 1,078 | 0.29 | 0.46 | 58.9 |
| 5/3/2015 | 0:51:52 | 57.74 | 50.64 | 89 | 4.28 | 0.46 | 4.8 |
| 5/3/2015 | 0:51:55 | 58.07 | 50.97 | 231 | 3.96 | 0.48 | 12.6 |
| 5/3/2015 | 0:51:57 | 58.40 | 51.30 | 164 | 3.92 | 0.47 | 9.0 |
| 5/3/2015 | 0:51:58 | 58.73 | 51.63 | 240 | 3.67 | 0.48 | 13.1 |
| 5/3/2015 | 0:51:59 | 59.06 | 51.96 | 268 | 3.45 | 0.47 | 14.6 |
| 5/3/2015 | 0:52:04 | 59.38 | 52.28 | 21 | 4.11 | 0.49 | 1.1 |
| 5/3/2015 | 0:52:05 | 59.71 | 52.61 | 112 | 3.76 | 0.45 | 6.1 |
| 5/3/2015 | 0:52:06 | 60.04 | 52.94 | 255 | 3.21 | 0.44 | 13.9 |
| 5/3/2015 | 0:52:07 | 60.37 | 53.27 | 255 | 3.09 | 0.44 | 13.9 |
| 5/3/2015 | 0:52:07 | 60.70 | 53.60 | 353 | 3.20 | 0.44 | 19.3 |
| 5/3/2015 | 0:52:08 | 61.02 | 53.92 | 479 | 4.36 | 0.49 | 26.2 |
| 5/3/2015 | 0:52:11 | 61.35 | 54.25 | 115 | 5.08 | 0.49 | 6.3 |
| 5/3/2015 | 0:52:13 | 61.68 | 54.58 | 140 | 3.87 | 0.47 | 7.6 |
| 5/3/2015 | 0:52:18 | 62.01 | 54.91 | 64 | 6.04 | 0.48 | 3.5 |
| 5/3/2015 | 0:52:18 | 62.16 | 55.06 | 105 | 4.26 | 0.49 | 5.7 |

## P272 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:49:52

**End Date:**
5/3/2015 0:54:10

**Operator Note:**
'7.1 7.2b Auto Complete'

**Northing:**
348,844.50

**Easting:**
225,226.30

**Tide (feet):**
7.10



## Hole: P273 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:50:03 | 37.40 | 30.30 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 0:50:03 | 37.73 | 30.63 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 0:50:04 | 38.06 | 30.96 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:04 | 38.39 | 31.29 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:04 | 38.71 | 31.61 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:05 | 39.04 | 31.94 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:05 | 39.37 | 32.27 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:05 | 39.70 | 32.60 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 0:50:06 | 40.03 | 32.93 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:06 | 40.35 | 33.25 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:06 | 40.68 | 33.58 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 0:50:07 | 41.01 | 33.91 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 0:50:07 | 41.34 | 34.24 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 0:50:07 | 41.67 | 34.57 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/3/2015 0:50:08 | 41.99 | 34.89 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:08 | 42.32 | 35.22 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:08 | 42.65 | 35.55 | 1,016 | 1.14 | 0.29 | 55.6 |
| 5/3/2015 0:50:09 | 42.98 | 35.88 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/3/2015 0:50:09 | 43.31 | 36.21 | 1,017 | 1.14 | 0.29 | 55.6 |
| 5/3/2015 0:50:09 | 43.64 | 36.54 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:10 | 43.96 | 36.86 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:10 | 44.29 | 37.19 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:10 | 44.62 | 37.52 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:11 | 44.95 | 37.85 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 0:50:11 | 45.28 | 38.18 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 0:50:12 | 45.60 | 38.50 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 0:50:12 | 45.93 | 38.83 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/3/2015 0:50:13 | 46.26 | 39.16 | 1,003 | 1.14 | 0.29 | 54.8 |
| 5/3/2015 0:50:12 | 46.59 | 39.49 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/3/2015 0:50:13 | 46.92 | 39.82 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/3/2015 0:50:14 | 47.24 | 40.14 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/3/2015 0:50:14 | 47.57 | 40.47 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:14 | 47.90 | 40.80 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:15 | 48.23 | 41.13 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 0:50:15 | 48.56 | 41.46 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/3/2015 0:50:15 | 48.88 | 41.78 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/3/2015 0:50:16 | 49.21 | 42.11 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/3/2015 0:50:16 | 49.54 | 42.44 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/3/2015 0:50:16 | 49.87 | 42.77 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 0:50:17 | 50.20 | 43.10 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 0:50:17 | 50.53 | 43.43 | 1,022 | 1.14 | 0.29 | 55.9 |
| 5/3/2015 0:50:17 | 50.85 | 43.75 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 0:50:18 | 51.18 | 44.08 | 1,028 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 0:50:18 | 51.51 | 44.41 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 0:50:18 | 51.84 | 44.74 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 0:50:19 | 52.17 | 45.07 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 0:50:19 | 52.49 | 45.39 | 1,019 | 1.14 | 0.29 | 55.7 |
| 5/3/2015 0:50:19 | 52.82 | 45.72 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 0:50:20 | 53.15 | 46.05 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 0:50:20 | 53.48 | 46.38 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/3/2015 0:50:21 | 53.81 | 46.71 | 782 | 1.14 | 0.29 | 42.8 |
| 5/3/2015 0:50:22 | 54.13 | 47.03 | 782 | 1.14 | 0.29 | 42.8 |
| 5/3/2015 0:50:22 | 54.46 | 47.36 | 708 | 1.14 | 0.29 | 38.7 |
| 5/3/2015 0:50:22 | 54.79 | 47.69 | 708 | 1.14 | 0.29 | 38.7 |
| 5/3/2015 0:50:23 | 55.12 | 48.02 | 693 | 1.14 | 0.29 | 37.9 |
| 5/3/2015 0:50:23 | 55.45 | 48.35 | 693 | 1.14 | 0.29 | 37.9 |
| 5/3/2015 0:50:23 | 55.77 | 48.67 | 661 | 1.14 | 0.29 | 36.1 |
| 5/3/2015 0:50:24 | 56.10 | 49.00 | 667 | 1.14 | 0.29 | 36.5 |
| 5/3/2015 0:50:25 | 56.43 | 49.33 | 830 | 1.14 | 0.29 | 45.4 |
| 5/3/2015 0:50:25 | 56.76 | 49.66 | 875 | 1.14 | 0.29 | 47.8 |
| 5/3/2015 0:50:26 | 57.09 | 49.99 | 849 | 1.14 | 0.29 | 46.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:50:26 | 57.41 | 50.31 | 849 | 1.14 | 0.29 | 46.4 |
| 5/3/2015 | 0:50:51 | 57.74 | 50.64 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 | 0:50:52 | 58.07 | 50.97 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 | 0:50:52 | 58.40 | 51.30 | 266 | 1.14 | 0.29 | 14.6 |
| 5/3/2015 | 0:50:58 | 58.73 | 51.63 | 59 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 | 0:51:00 | 59.06 | 51.96 | 181 | 1.14 | 0.29 | 9.9 |
| 5/3/2015 | 0:51:01 | 59.38 | 52.28 | 302 | 1.14 | 0.29 | 16.5 |
| 5/3/2015 | 0:51:01 | 59.71 | 52.61 | 394 | 1.14 | 0.29 | 21.5 |
| 5/3/2015 | 0:51:03 | 60.04 | 52.94 | 352 | 1.14 | 0.29 | 19.3 |
| 5/3/2015 | 0:51:04 | 60.37 | 53.27 | 209 | 1.14 | 0.29 | 11.4 |
| 5/3/2015 | 0:51:05 | 60.70 | 53.60 | 253 | 1.14 | 0.29 | 13.9 |
| 5/3/2015 | 0:51:17 | 61.02 | 53.92 | 76 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 | 0:51:19 | 61.35 | 54.25 | 159 | 1.14 | 0.29 | 8.7 |
| 5/3/2015 | 0:51:28 | 61.68 | 54.58 | 89 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 0:51:32 | 62.01 | 54.91 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 | 0:51:36 | 62.22 | 55.12 | 44 | 1.14 | 0.29 | 2.4 |

## P273 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:48:55

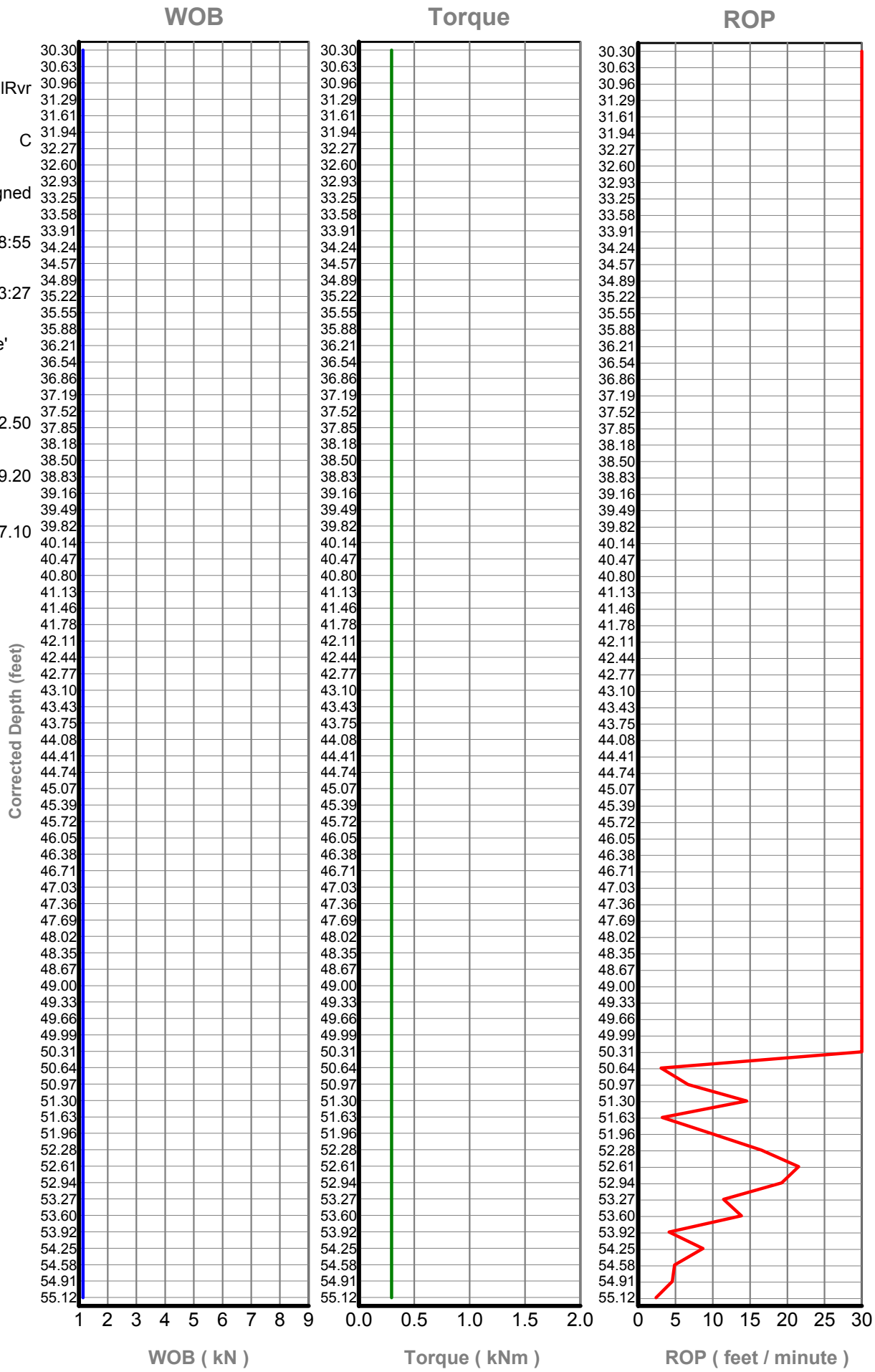
**End Date:**
5/3/2015 0:53:27

**Operator Note:**
'7.1 7.2 c Auto Complete'

**Northing:**
348,882.50

**Easting:**
225,289.20

**Tide (feet):**
7.10



## Hole: P274 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:51:11 | 37.40 | 30.30 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/2/2015 23:51:12 | 37.73 | 30.63 | 1,124 | 0.54 | 0.17 | 61.5 |
| 5/2/2015 23:51:12 | 38.06 | 30.96 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:12 | 38.39 | 31.29 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:12 | 38.71 | 31.61 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 23:51:13 | 39.04 | 31.94 | 1,130 | 0.54 | 0.17 | 61.8 |
| 5/2/2015 23:51:13 | 39.37 | 32.27 | 1,130 | 0.54 | 0.17 | 61.8 |
| 5/2/2015 23:51:13 | 39.70 | 32.60 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 23:51:14 | 40.03 | 32.93 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 23:51:14 | 40.35 | 33.25 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/2/2015 23:51:14 | 40.68 | 33.58 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:15 | 41.01 | 33.91 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:15 | 41.34 | 34.24 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:15 | 41.67 | 34.57 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/2/2015 23:51:15 | 41.99 | 34.89 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 23:51:16 | 42.32 | 35.22 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 23:51:16 | 42.65 | 35.55 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 23:51:16 | 42.98 | 35.88 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 23:51:34 | 43.31 | 36.21 | 106 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 23:51:35 | 43.64 | 36.54 | 106 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 23:51:35 | 43.96 | 36.86 | 323 | 0.54 | 0.17 | 17.7 |
| 5/2/2015 23:51:35 | 44.29 | 37.19 | 535 | 0.54 | 0.17 | 29.2 |
| 5/2/2015 23:51:36 | 44.62 | 37.52 | 535 | 0.54 | 0.17 | 29.2 |
| 5/2/2015 23:51:36 | 44.95 | 37.85 | 752 | 0.54 | 0.17 | 41.1 |
| 5/2/2015 23:51:36 | 45.28 | 38.18 | 752 | 0.54 | 0.17 | 41.1 |
| 5/2/2015 23:51:36 | 45.60 | 38.50 | 964 | 0.54 | 0.17 | 52.7 |
| 5/2/2015 23:51:37 | 45.93 | 38.83 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:37 | 46.26 | 39.16 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:37 | 46.59 | 39.49 | 1,072 | 0.54 | 0.17 | 58.6 |
| 5/2/2015 23:51:38 | 46.92 | 39.82 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:38 | 47.24 | 40.14 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:38 | 47.57 | 40.47 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:39 | 47.90 | 40.80 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:39 | 48.23 | 41.13 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:39 | 48.56 | 41.46 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 23:51:40 | 48.88 | 41.78 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:40 | 49.21 | 42.11 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:40 | 49.54 | 42.44 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:41 | 49.87 | 42.77 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:41 | 50.20 | 43.10 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 23:51:41 | 50.53 | 43.43 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:42 | 50.85 | 43.75 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:42 | 51.18 | 44.08 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 23:51:43 | 51.51 | 44.41 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:43 | 51.84 | 44.74 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:43 | 52.17 | 45.07 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 23:51:44 | 52.49 | 45.39 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:44 | 52.82 | 45.72 | 1,076 | 0.54 | 0.17 | 58.8 |
| 5/2/2015 23:51:44 | 53.15 | 46.05 | 1,073 | 0.54 | 0.17 | 58.7 |
| 5/2/2015 23:51:45 | 53.48 | 46.38 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 23:51:45 | 53.81 | 46.71 | 1,070 | 0.54 | 0.17 | 58.5 |
| 5/2/2015 23:51:45 | 54.13 | 47.03 | 1,064 | 0.54 | 0.17 | 58.2 |
| 5/2/2015 23:51:46 | 54.46 | 47.36 | 1,056 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 23:51:46 | 54.79 | 47.69 | 1,056 | 0.54 | 0.17 | 57.7 |
| 5/2/2015 23:51:46 | 55.12 | 48.02 | 1,029 | 0.54 | 0.17 | 56.3 |
| 5/2/2015 23:51:47 | 55.45 | 48.35 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 23:51:47 | 55.77 | 48.67 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 23:51:47 | 56.10 | 49.00 | 998 | 0.54 | 0.17 | 54.6 |
| 5/2/2015 23:51:48 | 56.43 | 49.33 | 988 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 23:51:48 | 56.76 | 49.66 | 964 | 0.54 | 0.17 | 52.7 |
| 5/2/2015 23:51:49 | 57.09 | 49.99 | 964 | 0.54 | 0.17 | 52.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 23:51:49 | 57.41 | 50.31 | 956 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 23:51:49 | 57.74 | 50.64 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 23:51:50 | 58.07 | 50.97 | 950 | 0.54 | 0.17 | 52.0 |
| 5/2/2015 23:51:50 | 58.40 | 51.30 | 955 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 23:51:50 | 58.73 | 51.63 | 942 | 0.54 | 0.17 | 51.5 |
| 5/2/2015 23:51:51 | 59.06 | 51.96 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 23:51:51 | 59.38 | 52.28 | 939 | 0.54 | 0.17 | 51.4 |
| 5/2/2015 23:51:51 | 59.71 | 52.61 | 927 | 0.54 | 0.17 | 50.7 |
| 5/2/2015 23:51:52 | 60.04 | 52.94 | 922 | 0.54 | 0.17 | 50.4 |
| 5/2/2015 23:51:52 | 60.37 | 53.27 | 919 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 23:51:53 | 60.70 | 53.60 | 919 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 23:51:53 | 61.02 | 53.92 | 918 | 0.54 | 0.17 | 50.2 |
| 5/2/2015 23:51:53 | 61.35 | 54.25 | 913 | 0.54 | 0.17 | 49.9 |
| 5/2/2015 23:51:54 | 61.68 | 54.58 | 907 | 0.54 | 0.17 | 49.6 |
| 5/2/2015 23:51:55 | 62.01 | 54.91 | 896 | 0.54 | 0.17 | 49.0 |
| 5/2/2015 23:51:55 | 62.12 | 55.02 | 775 | 0.54 | 0.17 | 42.4 |

## P274 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:42:01

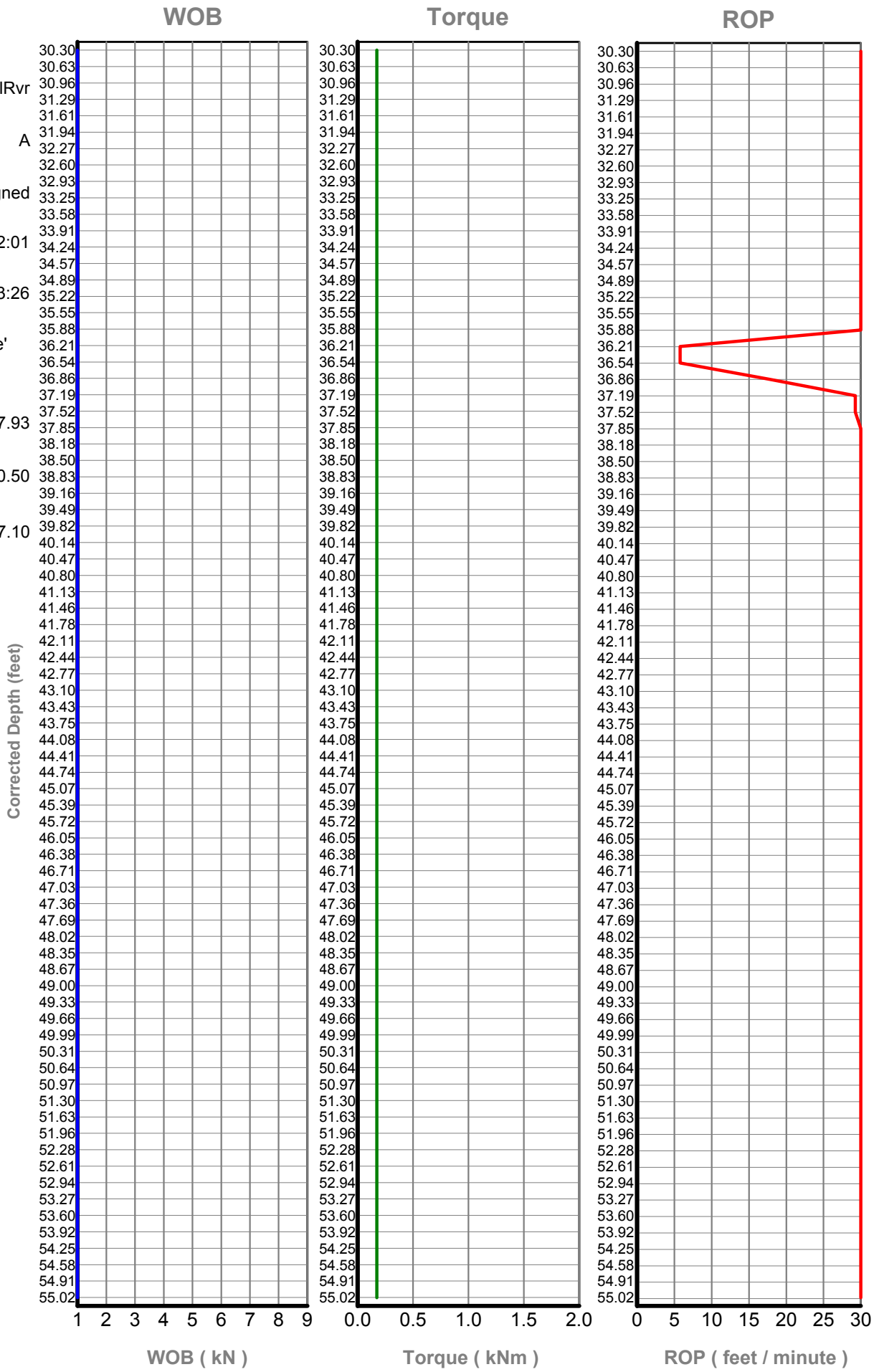
**End Date:**
5/2/2015 23:53:26

**Operator Note:**
'7.1 7.1 a Auto Complete'

**Northing:**
348,927.93

**Easting:**
225,350.50

**Tide (feet):**
7.10



## Hole: P275 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:50:52 | 37.40 | 30.20 | 1,255 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 23:50:52 | 37.73 | 30.53 | 1,255 | 0.30 | 0.39 | 68.6 |
| 5/2/2015 23:50:52 | 38.06 | 30.86 | 1,258 | 0.30 | 0.40 | 68.8 |
| 5/2/2015 23:50:53 | 38.39 | 31.19 | 1,258 | 0.30 | 0.40 | 68.8 |
| 5/2/2015 23:50:53 | 38.71 | 31.51 | 1,255 | 0.30 | 0.38 | 68.6 |
| 5/2/2015 23:50:53 | 39.04 | 31.84 | 1,255 | 0.30 | 0.38 | 68.6 |
| 5/2/2015 23:50:53 | 39.37 | 32.17 | 1,266 | 0.29 | 0.40 | 69.2 |
| 5/2/2015 23:50:54 | 39.70 | 32.50 | 1,260 | 0.30 | 0.40 | 68.9 |
| 5/2/2015 23:50:54 | 40.03 | 32.83 | 1,260 | 0.30 | 0.40 | 68.9 |
| 5/2/2015 23:50:54 | 40.35 | 33.15 | 1,257 | 0.30 | 0.38 | 68.8 |
| 5/2/2015 23:50:55 | 40.68 | 33.48 | 1,257 | 0.30 | 0.38 | 68.8 |
| 5/2/2015 23:50:55 | 41.01 | 33.81 | 1,257 | 0.36 | 0.38 | 68.8 |
| 5/2/2015 23:50:55 | 41.34 | 34.14 | 1,257 | 0.36 | 0.38 | 68.8 |
| 5/2/2015 23:50:55 | 41.67 | 34.47 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 23:50:56 | 41.99 | 34.79 | 1,266 | 0.31 | 0.39 | 69.2 |
| 5/2/2015 23:50:56 | 42.32 | 35.12 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:50:56 | 42.65 | 35.45 | 1,260 | 0.31 | 0.40 | 68.9 |
| 5/2/2015 23:50:56 | 42.98 | 35.78 | 1,260 | 0.31 | 0.38 | 68.9 |
| 5/2/2015 23:50:57 | 43.31 | 36.11 | 1,259 | 0.31 | 0.39 | 68.8 |
| 5/2/2015 23:50:57 | 43.64 | 36.44 | 1,259 | 0.31 | 0.39 | 68.8 |
| 5/2/2015 23:50:57 | 43.96 | 36.76 | 1,269 | 0.31 | 0.39 | 69.4 |
| 5/2/2015 23:50:58 | 44.29 | 37.09 | 1,269 | 0.31 | 0.39 | 69.4 |
| 5/2/2015 23:50:58 | 44.62 | 37.42 | 1,256 | 0.31 | 0.38 | 68.7 |
| 5/2/2015 23:50:59 | 44.95 | 37.75 | 1,256 | 0.31 | 0.38 | 68.7 |
| 5/2/2015 23:50:59 | 45.28 | 38.08 | 1,267 | 0.31 | 0.38 | 69.3 |
| 5/2/2015 23:50:59 | 45.60 | 38.40 | 1,267 | 0.31 | 0.38 | 69.3 |
| 5/2/2015 23:50:59 | 45.93 | 38.73 | 1,243 | 0.31 | 0.39 | 67.9 |
| 5/2/2015 23:51:00 | 46.26 | 39.06 | 1,243 | 0.31 | 0.39 | 67.9 |
| 5/2/2015 23:51:00 | 46.59 | 39.39 | 1,243 | 0.31 | 0.39 | 67.9 |
| 5/2/2015 23:51:00 | 46.92 | 39.72 | 1,243 | 0.31 | 0.39 | 67.9 |
| 5/2/2015 23:51:00 | 47.24 | 40.04 | 1,262 | 0.31 | 0.39 | 69.0 |
| 5/2/2015 23:51:01 | 47.57 | 40.37 | 1,224 | 0.31 | 0.38 | 67.0 |
| 5/2/2015 23:51:01 | 47.90 | 40.70 | 1,224 | 0.31 | 0.38 | 67.0 |
| 5/2/2015 23:51:01 | 48.23 | 41.03 | 1,224 | 0.31 | 0.39 | 67.0 |
| 5/2/2015 23:51:02 | 48.56 | 41.36 | 1,224 | 0.31 | 0.39 | 67.0 |
| 5/2/2015 23:51:02 | 48.88 | 41.68 | 1,246 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:51:02 | 49.21 | 42.01 | 1,246 | 0.31 | 0.38 | 68.1 |
| 5/2/2015 23:51:02 | 49.54 | 42.34 | 1,240 | 0.31 | 0.38 | 67.8 |
| 5/2/2015 23:51:03 | 49.87 | 42.67 | 1,240 | 0.31 | 0.38 | 67.8 |
| 5/2/2015 23:51:03 | 50.20 | 43.00 | 1,257 | 0.31 | 0.39 | 68.7 |
| 5/2/2015 23:51:03 | 50.53 | 43.33 | 1,257 | 0.31 | 0.39 | 68.7 |
| 5/2/2015 23:51:03 | 50.85 | 43.65 | 1,239 | 0.31 | 0.39 | 67.7 |
| 5/2/2015 23:51:04 | 51.18 | 43.98 | 1,276 | 0.31 | 0.38 | 69.8 |
| 5/2/2015 23:51:04 | 51.51 | 44.31 | 1,276 | 0.31 | 0.38 | 69.8 |
| 5/2/2015 23:51:04 | 51.84 | 44.64 | 1,276 | 0.31 | 0.38 | 69.8 |
| 5/2/2015 23:51:05 | 52.17 | 44.97 | 1,276 | 0.31 | 0.38 | 69.8 |
| 5/2/2015 23:51:05 | 52.49 | 45.29 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/2/2015 23:51:05 | 52.82 | 45.62 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/2/2015 23:51:05 | 53.15 | 45.95 | 1,238 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 23:51:06 | 53.48 | 46.28 | 1,238 | 0.31 | 0.40 | 67.7 |
| 5/2/2015 23:51:06 | 53.81 | 46.61 | 1,234 | 0.31 | 0.39 | 67.5 |
| 5/2/2015 23:51:06 | 54.13 | 46.93 | 1,224 | 0.31 | 0.40 | 66.9 |
| 5/2/2015 23:51:07 | 54.46 | 47.26 | 1,224 | 0.31 | 0.40 | 66.9 |
| 5/2/2015 23:51:07 | 54.79 | 47.59 | 1,191 | 0.31 | 0.40 | 65.1 |
| 5/2/2015 23:51:07 | 55.12 | 47.92 | 1,158 | 0.31 | 0.32 | 63.3 |
| 5/2/2015 23:51:08 | 55.45 | 48.25 | 1,158 | 0.31 | 0.32 | 63.3 |
| 5/2/2015 23:51:08 | 55.77 | 48.57 | 1,155 | 0.31 | 0.40 | 63.2 |
| 5/2/2015 23:51:09 | 56.10 | 48.90 | 1,155 | 0.31 | 0.40 | 63.2 |
| 5/2/2015 23:51:09 | 56.43 | 49.23 | 1,125 | 0.31 | 0.40 | 61.5 |
| 5/2/2015 23:51:09 | 56.76 | 49.56 | 1,113 | 0.30 | 0.40 | 60.9 |
| 5/2/2015 23:51:10 | 57.09 | 49.89 | 1,113 | 0.30 | 0.40 | 60.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:51:10 | 57.41 | 50.21 | 1,107 | 0.30 | 0.40 | 60.6 |
| 5/2/2015 | 23:51:10 | 57.74 | 50.54 | 1,107 | 0.30 | 0.40 | 60.6 |
| 5/2/2015 | 23:51:10 | 58.07 | 50.87 | 1,110 | 0.32 | 0.40 | 60.7 |
| 5/2/2015 | 23:51:11 | 58.40 | 51.20 | 1,095 | 0.30 | 0.40 | 59.9 |
| 5/2/2015 | 23:51:11 | 58.73 | 51.53 | 1,095 | 0.30 | 0.40 | 59.9 |
| 5/2/2015 | 23:51:11 | 59.06 | 51.86 | 1,090 | 0.31 | 0.40 | 59.6 |
| 5/2/2015 | 23:51:12 | 59.38 | 52.18 | 1,074 | 0.31 | 0.40 | 58.8 |
| 5/2/2015 | 23:51:12 | 59.71 | 52.51 | 1,074 | 0.31 | 0.40 | 58.8 |
| 5/2/2015 | 23:51:12 | 60.04 | 52.84 | 1,067 | 0.30 | 0.41 | 58.3 |
| 5/2/2015 | 23:51:13 | 60.37 | 53.17 | 1,047 | 0.31 | 0.40 | 57.2 |
| 5/2/2015 | 23:51:13 | 60.70 | 53.50 | 1,047 | 0.31 | 0.40 | 57.2 |
| 5/2/2015 | 23:51:13 | 61.02 | 53.82 | 1,035 | 0.30 | 0.41 | 56.6 |
| 5/2/2015 | 23:51:14 | 61.35 | 54.15 | 1,023 | 0.30 | 0.41 | 56.0 |
| 5/2/2015 | 23:51:14 | 61.68 | 54.48 | 1,023 | 0.30 | 0.41 | 56.0 |
| 5/2/2015 | 23:51:14 | 62.01 | 54.81 | 1,015 | 0.30 | 0.41 | 55.5 |
| 5/2/2015 | 23:51:15 | 62.34 | 55.14 | 1,003 | 0.29 | 0.44 | 54.8 |
| 5/2/2015 | 23:51:15 | 62.41 | 55.21 | 1,003 | 0.29 | 0.44 | 54.8 |

## P275 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:49:24

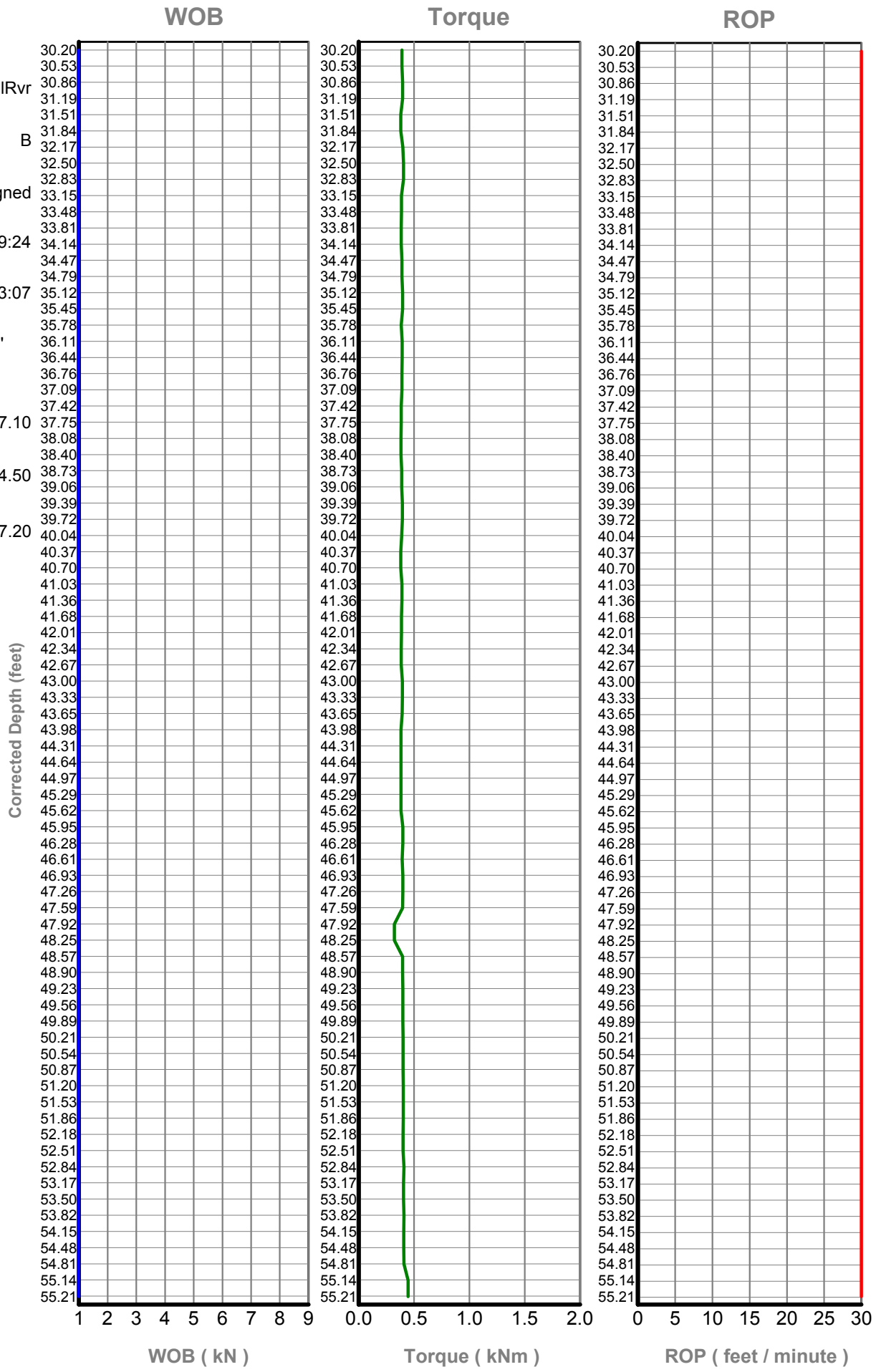
**End Date:**
5/2/2015 23:53:07

**Operator Note:**
'7.2 7.0b Auto Complete'

**Northing:**
348,967.10

**Easting:**
225,414.50

**Tide (feet):**
7.20



## Hole: P276 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 23:53:36 | 37.40 | 30.20 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:37 | 37.73 | 30.53 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:37 | 38.06 | 30.86 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:37 | 38.39 | 31.19 | 989 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:38 | 38.71 | 31.51 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:38 | 39.04 | 31.84 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:38 | 39.37 | 32.17 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:39 | 39.70 | 32.50 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:39 | 40.03 | 32.83 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:39 | 40.35 | 33.15 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:40 | 40.68 | 33.48 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:40 | 41.01 | 33.81 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:41 | 41.34 | 34.14 | 988 | 1.14 | 0.29 | 54.1 |
| 5/2/2015 23:53:41 | 41.67 | 34.47 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:41 | 41.99 | 34.79 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:42 | 42.32 | 35.12 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:42 | 42.65 | 35.45 | 983 | 1.14 | 0.29 | 53.7 |
| 5/2/2015 23:53:43 | 42.98 | 35.78 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 23:53:43 | 43.31 | 36.11 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 23:53:43 | 43.64 | 36.44 | 962 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 23:53:44 | 43.96 | 36.76 | 962 | 1.14 | 0.29 | 52.6 |
| 5/2/2015 23:53:44 | 44.29 | 37.09 | 972 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 23:53:45 | 44.62 | 37.42 | 972 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 23:53:45 | 44.95 | 37.75 | 978 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 23:53:45 | 45.28 | 38.08 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 23:53:46 | 45.60 | 38.40 | 975 | 1.14 | 0.29 | 53.3 |
| 5/2/2015 23:53:46 | 45.93 | 38.73 | 969 | 1.14 | 0.29 | 53.0 |
| 5/2/2015 23:53:46 | 46.26 | 39.06 | 987 | 1.14 | 0.29 | 54.0 |
| 5/2/2015 23:53:47 | 46.59 | 39.39 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 23:53:47 | 46.92 | 39.72 | 977 | 1.14 | 0.29 | 53.4 |
| 5/2/2015 23:53:47 | 47.24 | 40.04 | 986 | 1.14 | 0.29 | 53.9 |
| 5/2/2015 23:53:48 | 47.57 | 40.37 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 23:53:48 | 47.90 | 40.70 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 23:53:48 | 48.23 | 41.03 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 23:53:49 | 48.56 | 41.36 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 23:53:49 | 48.88 | 41.68 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 23:53:49 | 49.21 | 42.01 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:53:50 | 49.54 | 42.34 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:53:50 | 49.87 | 42.67 | 1,023 | 1.14 | 0.29 | 55.9 |
| 5/2/2015 23:53:50 | 50.20 | 43.00 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/2/2015 23:53:51 | 50.53 | 43.33 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 23:53:51 | 50.85 | 43.65 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/2/2015 23:53:51 | 51.18 | 43.98 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:53:52 | 51.51 | 44.31 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:53:52 | 51.84 | 44.64 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/2/2015 23:53:52 | 52.17 | 44.97 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 23:53:53 | 52.49 | 45.29 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:53 | 52.82 | 45.62 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:53 | 53.15 | 45.95 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:54 | 53.48 | 46.28 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:55 | 53.81 | 46.61 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:55 | 54.13 | 46.93 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:53:55 | 54.46 | 47.26 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:53:56 | 54.79 | 47.59 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/2/2015 23:53:56 | 55.12 | 47.92 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/2/2015 23:53:56 | 55.45 | 48.25 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:57 | 55.77 | 48.57 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/2/2015 23:53:57 | 56.10 | 48.90 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/2/2015 23:53:57 | 56.43 | 49.23 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 23:53:58 | 56.76 | 49.56 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/2/2015 23:53:58 | 57.09 | 49.89 | 1,015 | 1.14 | 0.29 | 55.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 23:53:58 | 57.41 | 50.21 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 | 23:53:59 | 57.74 | 50.54 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 | 23:53:59 | 58.07 | 50.87 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 | 23:53:59 | 58.40 | 51.20 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 | 23:54:00 | 58.73 | 51.53 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 | 23:54:00 | 59.06 | 51.86 | 984 | 1.14 | 0.29 | 53.8 |
| 5/2/2015 | 23:54:00 | 59.38 | 52.18 | 979 | 1.14 | 0.29 | 53.5 |
| 5/2/2015 | 23:54:01 | 59.71 | 52.51 | 973 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 | 23:54:01 | 60.04 | 52.84 | 973 | 1.14 | 0.29 | 53.2 |
| 5/2/2015 | 23:54:01 | 60.37 | 53.17 | 967 | 1.14 | 0.29 | 52.9 |
| 5/2/2015 | 23:54:02 | 60.70 | 53.50 | 950 | 1.14 | 0.29 | 51.9 |
| 5/2/2015 | 23:54:02 | 61.02 | 53.82 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 | 23:54:03 | 61.35 | 54.15 | 954 | 1.14 | 0.29 | 52.2 |
| 5/2/2015 | 23:54:03 | 61.68 | 54.48 | 927 | 1.14 | 0.29 | 50.7 |
| 5/2/2015 | 23:54:04 | 62.01 | 54.81 | 918 | 1.14 | 0.29 | 50.2 |
| 5/2/2015 | 23:54:04 | 62.14 | 54.94 | 789 | 1.14 | 0.29 | 43.1 |

## P276 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 23:52:13

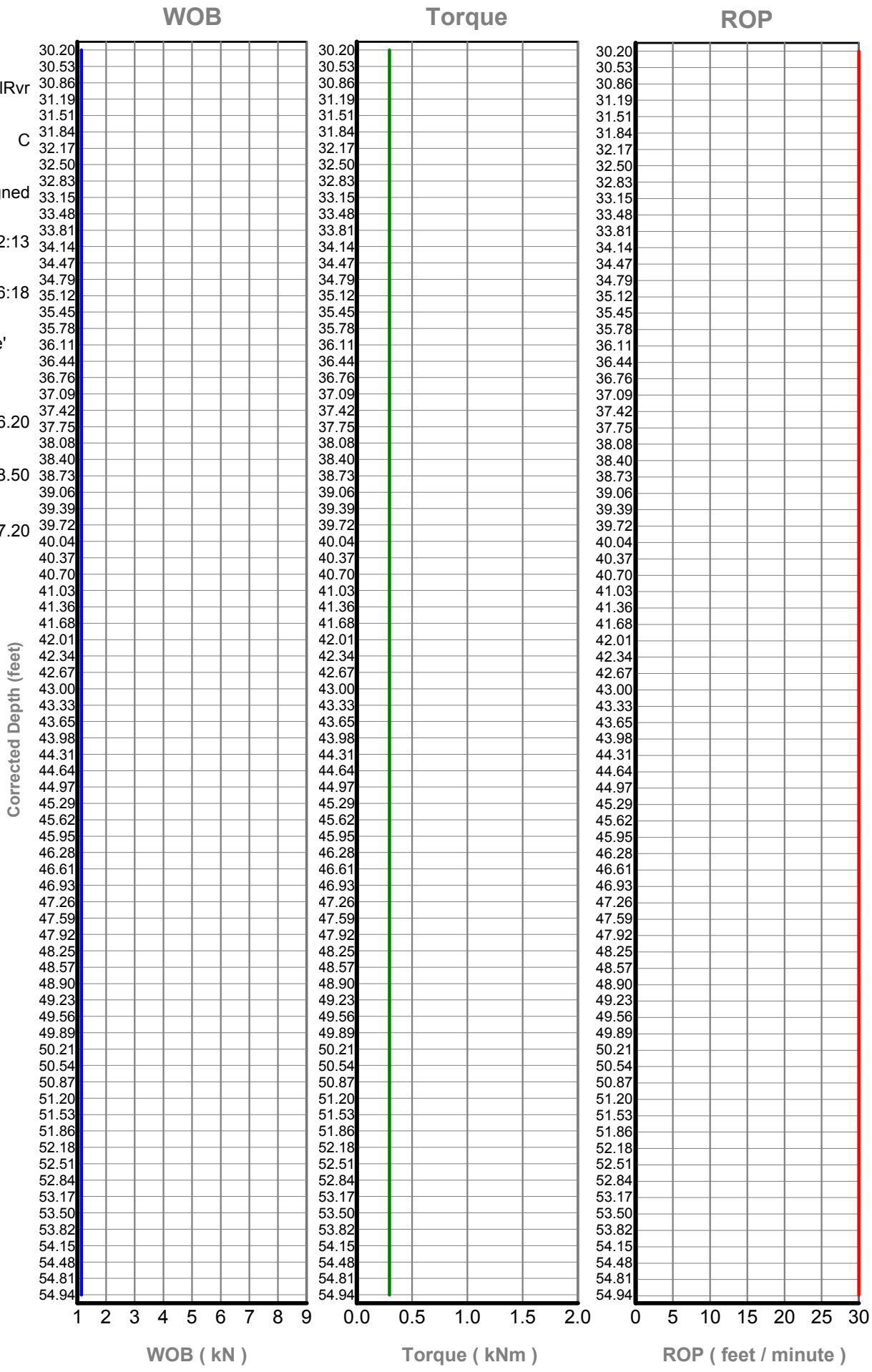
**End Date:**
5/2/2015 23:56:18

**Operator Note:**
'7.2 7.0 c Auto Complete'

**Northing:**
349,006.20

**Easting:**
225,478.50

**Tide (feet):**
7.20



## Hole: P277 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:14:37 | 36.09 | 30.09 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:38 | 36.42 | 30.42 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:38 | 36.75 | 30.75 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:38 | 37.07 | 31.07 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:39 | 37.40 | 31.40 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:39 | 37.73 | 31.73 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:40 | 38.06 | 32.06 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:40 | 38.39 | 32.39 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:40 | 38.71 | 32.71 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:41 | 39.04 | 33.04 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:41 | 39.37 | 33.37 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:41 | 39.70 | 33.70 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:42 | 40.03 | 34.03 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:43 | 40.35 | 34.35 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 12:14:43 | 40.68 | 34.68 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:43 | 41.01 | 35.01 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 12:14:44 | 41.34 | 35.34 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:44 | 41.67 | 35.67 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:44 | 41.99 | 35.99 | 934 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:45 | 42.32 | 36.32 | 934 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:45 | 42.65 | 36.65 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:46 | 42.98 | 36.98 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:46 | 43.31 | 37.31 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:46 | 43.64 | 37.64 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:47 | 43.96 | 37.96 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:47 | 44.29 | 38.29 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:47 | 44.62 | 38.62 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:48 | 44.95 | 38.95 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:48 | 45.28 | 39.28 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:48 | 45.60 | 39.60 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:49 | 45.93 | 39.93 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 12:14:49 | 46.26 | 40.26 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:50 | 46.59 | 40.59 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:50 | 46.92 | 40.92 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 12:14:50 | 47.24 | 41.24 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:51 | 47.57 | 41.57 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:51 | 47.90 | 41.90 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:51 | 48.23 | 42.23 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:52 | 48.56 | 42.56 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:52 | 48.88 | 42.88 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:53 | 49.21 | 43.21 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 12:14:53 | 49.54 | 43.54 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:14:53 | 49.87 | 43.87 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:54 | 50.20 | 44.20 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:55 | 50.53 | 44.53 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 12:14:55 | 50.85 | 44.85 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 12:14:55 | 51.18 | 45.18 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 12:14:56 | 51.51 | 45.51 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 12:14:56 | 51.84 | 45.84 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 12:14:57 | 52.17 | 46.17 | 899 | 0.54 | 0.17 | 49.2 |
| 5/3/2015 12:14:57 | 52.49 | 46.49 | 884 | 0.54 | 0.17 | 48.3 |
| 5/3/2015 12:14:57 | 52.82 | 46.82 | 873 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 12:14:58 | 53.15 | 47.15 | 861 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 12:14:58 | 53.48 | 47.48 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 12:14:59 | 53.81 | 47.81 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 12:14:59 | 54.13 | 48.13 | 852 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 12:14:59 | 54.46 | 48.46 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 12:15:00 | 54.79 | 48.79 | 838 | 0.54 | 0.17 | 45.8 |
| 5/3/2015 12:15:00 | 55.12 | 49.12 | 827 | 0.54 | 0.17 | 45.2 |
| 5/3/2015 12:15:01 | 55.45 | 49.45 | 826 | 0.54 | 0.17 | 45.2 |
| 5/3/2015 12:15:01 | 55.77 | 49.77 | 826 | 0.54 | 0.17 | 45.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 12:15:01 | 56.10 | 50.10 | 820 | 0.54 | 0.17 | 44.8 |
| 5/3/2015 12:15:02 | 56.43 | 50.43 | 814 | 0.54 | 0.17 | 44.5 |
| 5/3/2015 12:15:02 | 56.76 | 50.76 | 805 | 0.54 | 0.17 | 44.0 |
| 5/3/2015 12:15:03 | 57.09 | 51.09 | 799 | 0.54 | 0.17 | 43.7 |
| 5/3/2015 12:15:03 | 57.41 | 51.41 | 785 | 0.54 | 0.17 | 42.9 |
| 5/3/2015 12:15:04 | 57.74 | 51.74 | 775 | 0.54 | 0.17 | 42.4 |
| 5/3/2015 12:15:04 | 58.07 | 52.07 | 779 | 0.54 | 0.17 | 42.6 |
| 5/3/2015 12:15:05 | 58.40 | 52.40 | 774 | 0.54 | 0.17 | 42.3 |
| 5/3/2015 12:15:06 | 58.73 | 52.73 | 740 | 0.54 | 0.17 | 40.4 |
| 5/3/2015 12:15:21 | 59.06 | 53.06 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 12:15:25 | 59.38 | 53.38 | 82 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 12:15:27 | 59.71 | 53.71 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 12:15:28 | 60.04 | 54.04 | 245 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 12:15:29 | 60.37 | 54.37 | 288 | 0.54 | 0.17 | 15.8 |
| 5/3/2015 12:15:31 | 60.70 | 54.70 | 233 | 0.54 | 0.17 | 12.8 |
| 5/3/2015 12:15:32 | 61.02 | 55.02 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 12:15:35 | 61.13 | 55.13 | 94 | 0.54 | 0.17 | 5.1 |

## P277 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:12:46

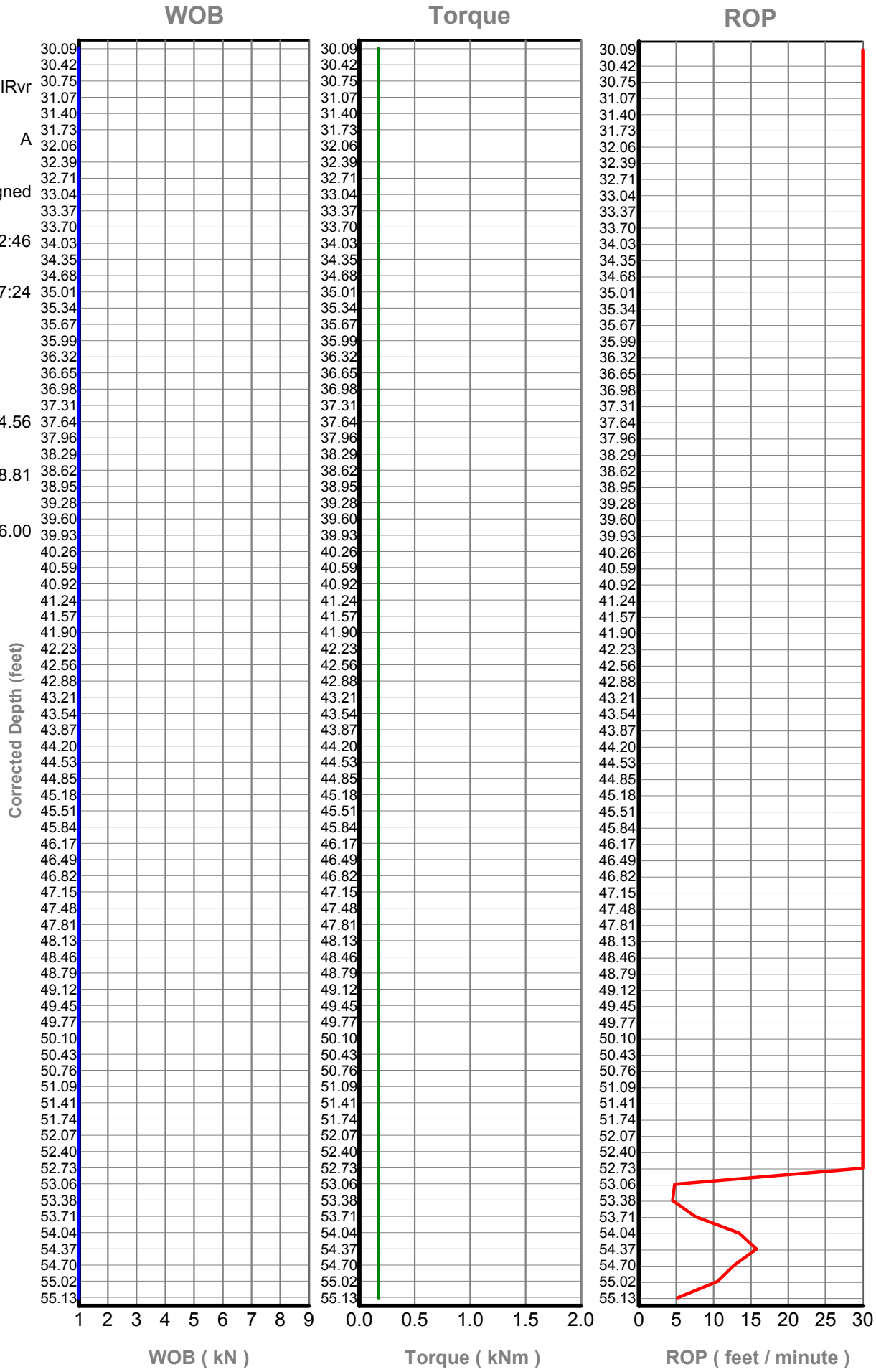
**End Date:**
5/3/2015 12:17:24

**Operator Note:**
'6 6.0 a Auto Complete'

**Northing:**
348,624.56

**Easting:**
225,018.81

**Tide (feet):**
6.00



## Hole: P278 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:14:28 | 36.09 | 30.09 | 1,278 | 0.33 | 0.39 | 69.9 |
| 5/3/2015 12:14:28 | 36.42 | 30.42 | 1,275 | 0.34 | 0.39 | 69.7 |
| 5/3/2015 12:14:28 | 36.75 | 30.75 | 1,275 | 0.34 | 0.39 | 69.7 |
| 5/3/2015 12:14:28 | 37.07 | 31.07 | 1,276 | 0.26 | 0.40 | 69.8 |
| 5/3/2015 12:14:29 | 37.40 | 31.40 | 1,274 | 0.27 | 0.37 | 69.6 |
| 5/3/2015 12:14:29 | 37.73 | 31.73 | 1,274 | 0.27 | 0.37 | 69.6 |
| 5/3/2015 12:14:29 | 38.06 | 32.06 | 1,288 | 0.27 | 0.37 | 70.4 |
| 5/3/2015 12:14:30 | 38.39 | 32.39 | 1,288 | 0.27 | 0.37 | 70.4 |
| 5/3/2015 12:14:30 | 38.71 | 32.71 | 1,302 | 0.25 | 0.38 | 71.2 |
| 5/3/2015 12:14:30 | 39.04 | 33.04 | 1,302 | 0.25 | 0.38 | 71.2 |
| 5/3/2015 12:14:30 | 39.37 | 33.37 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 12:14:31 | 39.70 | 33.70 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 12:14:31 | 40.03 | 34.03 | 1,326 | 0.26 | 0.39 | 72.5 |
| 5/3/2015 12:14:32 | 40.35 | 34.35 | 1,326 | 0.26 | 0.39 | 72.5 |
| 5/3/2015 12:14:32 | 40.68 | 34.68 | 1,346 | 0.26 | 0.39 | 73.6 |
| 5/3/2015 12:14:32 | 41.01 | 35.01 | 1,346 | 0.26 | 0.39 | 73.6 |
| 5/3/2015 12:14:32 | 41.34 | 35.34 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 12:14:33 | 41.67 | 35.67 | 1,318 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 12:14:33 | 41.99 | 35.99 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 12:14:33 | 42.32 | 36.32 | 1,318 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 12:14:33 | 42.65 | 36.65 | 1,331 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 12:14:34 | 42.98 | 36.98 | 1,331 | 0.26 | 0.37 | 72.8 |
| 5/3/2015 12:14:34 | 43.31 | 37.31 | 1,319 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 12:14:34 | 43.64 | 37.64 | 1,319 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 12:14:34 | 43.96 | 37.96 | 1,327 | 0.26 | 0.37 | 72.6 |
| 5/3/2015 12:14:35 | 44.29 | 38.29 | 1,327 | 0.26 | 0.37 | 72.6 |
| 5/3/2015 12:14:35 | 44.62 | 38.62 | 1,322 | 0.26 | 0.38 | 72.3 |
| 5/3/2015 12:14:35 | 44.95 | 38.95 | 1,322 | 0.26 | 0.38 | 72.3 |
| 5/3/2015 12:14:35 | 45.28 | 39.28 | 1,337 | 0.26 | 0.39 | 73.1 |
| 5/3/2015 12:14:36 | 45.60 | 39.60 | 1,337 | 0.26 | 0.39 | 73.1 |
| 5/3/2015 12:14:36 | 45.93 | 39.93 | 1,330 | 0.24 | 0.37 | 72.7 |
| 5/3/2015 12:14:36 | 46.26 | 40.26 | 1,330 | 0.24 | 0.37 | 72.7 |
| 5/3/2015 12:14:36 | 46.59 | 40.59 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 12:14:37 | 46.92 | 40.92 | 1,330 | 0.26 | 0.37 | 72.7 |
| 5/3/2015 12:14:37 | 47.24 | 41.24 | 1,335 | 0.26 | 0.39 | 73.0 |
| 5/3/2015 12:14:37 | 47.57 | 41.57 | 1,327 | 0.26 | 0.39 | 72.6 |
| 5/3/2015 12:14:38 | 47.90 | 41.90 | 1,327 | 0.26 | 0.39 | 72.6 |
| 5/3/2015 12:14:38 | 48.23 | 42.23 | 1,335 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 12:14:38 | 48.56 | 42.56 | 1,335 | 0.26 | 0.38 | 73.0 |
| 5/3/2015 12:14:38 | 48.88 | 42.88 | 1,327 | 0.26 | 0.39 | 72.6 |
| 5/3/2015 12:14:39 | 49.21 | 43.21 | 1,327 | 0.26 | 0.39 | 72.6 |
| 5/3/2015 12:14:39 | 49.54 | 43.54 | 1,330 | 0.29 | 0.38 | 72.7 |
| 5/3/2015 12:14:39 | 49.87 | 43.87 | 1,330 | 0.29 | 0.38 | 72.7 |
| 5/3/2015 12:14:39 | 50.20 | 44.20 | 1,324 | 0.29 | 0.37 | 72.4 |
| 5/3/2015 12:14:40 | 50.53 | 44.53 | 1,324 | 0.29 | 0.37 | 72.4 |
| 5/3/2015 12:14:40 | 50.85 | 44.85 | 1,296 | 0.26 | 0.40 | 70.9 |
| 5/3/2015 12:14:40 | 51.18 | 45.18 | 1,296 | 0.26 | 0.40 | 70.9 |
| 5/3/2015 12:14:40 | 51.51 | 45.51 | 1,296 | 0.26 | 0.37 | 70.9 |
| 5/3/2015 12:14:41 | 51.84 | 45.84 | 1,296 | 0.26 | 0.37 | 70.9 |
| 5/3/2015 12:14:41 | 52.17 | 46.17 | 1,294 | 0.26 | 0.38 | 70.8 |
| 5/3/2015 12:14:42 | 52.49 | 46.49 | 1,294 | 0.26 | 0.38 | 70.8 |
| 5/3/2015 12:14:42 | 52.82 | 46.82 | 1,268 | 0.26 | 0.40 | 69.3 |
| 5/3/2015 12:14:42 | 53.15 | 47.15 | 1,244 | 0.26 | 0.40 | 68.0 |
| 5/3/2015 12:14:43 | 53.48 | 47.48 | 1,244 | 0.26 | 0.40 | 68.0 |
| 5/3/2015 12:14:43 | 53.81 | 47.81 | 1,208 | 0.26 | 0.38 | 66.0 |
| 5/3/2015 12:14:43 | 54.13 | 48.13 | 1,208 | 0.26 | 0.38 | 66.0 |
| 5/3/2015 12:14:43 | 54.46 | 48.46 | 1,212 | 0.25 | 0.40 | 66.3 |
| 5/3/2015 12:14:44 | 54.79 | 48.79 | 1,175 | 0.27 | 0.39 | 64.3 |
| 5/3/2015 12:14:44 | 55.12 | 49.12 | 1,175 | 0.27 | 0.39 | 64.3 |
| 5/3/2015 12:14:44 | 55.45 | 49.45 | 1,171 | 0.26 | 0.39 | 64.0 |
| 5/3/2015 12:14:45 | 55.77 | 49.77 | 1,171 | 0.26 | 0.39 | 64.0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 12:14:45 | 56.10 | 50.10 | 1,155 | 0.26 | 0.40 | 63.1 |
| 5/3/2015 12:14:45 | 56.43 | 50.43 | 1,159 | 0.26 | 0.39 | 63.4 |
| 5/3/2015 12:14:46 | 56.76 | 50.76 | 1,159 | 0.26 | 0.39 | 63.4 |
| 5/3/2015 12:14:46 | 57.09 | 51.09 | 1,142 | 0.26 | 0.39 | 62.4 |
| 5/3/2015 12:14:46 | 57.41 | 51.41 | 1,142 | 0.26 | 0.39 | 62.4 |
| 5/3/2015 12:14:46 | 57.74 | 51.74 | 1,134 | 0.26 | 0.40 | 62.0 |
| 5/3/2015 12:14:47 | 58.07 | 52.07 | 1,113 | 0.26 | 0.40 | 60.9 |
| 5/3/2015 12:14:47 | 58.40 | 52.40 | 1,113 | 0.26 | 0.40 | 60.9 |
| 5/3/2015 12:14:47 | 58.73 | 52.73 | 1,111 | 0.25 | 0.39 | 60.7 |
| 5/3/2015 12:14:48 | 59.06 | 53.06 | 1,096 | 0.25 | 0.39 | 59.9 |
| 5/3/2015 12:14:48 | 59.38 | 53.38 | 1,096 | 0.25 | 0.39 | 59.9 |
| 5/3/2015 12:14:48 | 59.71 | 53.71 | 1,087 | 0.20 | 0.40 | 59.5 |
| 5/3/2015 12:14:50 | 60.04 | 54.04 | 389 | 1.73 | 0.38 | 21.3 |
| 5/3/2015 12:14:51 | 60.37 | 54.37 | 389 | 1.73 | 0.38 | 21.3 |
| 5/3/2015 12:14:52 | 60.70 | 54.70 | 240 | 1.64 | 0.37 | 13.1 |
| 5/3/2015 12:14:53 | 61.02 | 55.02 | 406 | 2.71 | 0.43 | 22.2 |
| 5/3/2015 12:14:53 | 61.35 | 55.35 | 557 | 2.02 | 0.38 | 30.4 |

## P278 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:12:12

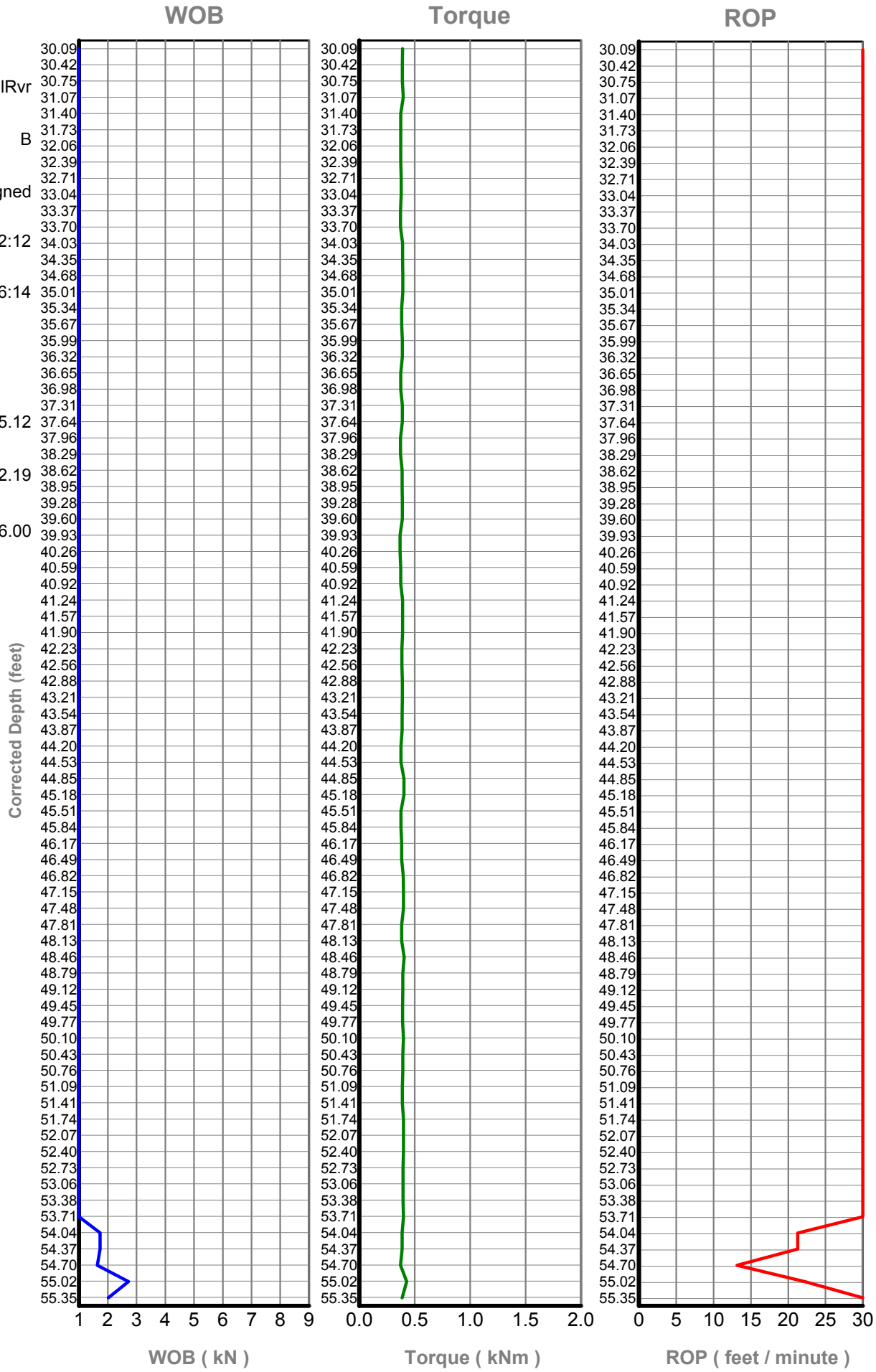
**End Date:**
5/3/2015 12:16:14

**Operator Note:**
'6 6.0 b Auto Complete'

**Northing:**
348,665.12

**Easting:**
225,082.19

**Tide (feet):**
6.00



## Hole: P279 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 12:13:38 | 36.09 | 30.09 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 12:13:39 | 36.42 | 30.42 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:13:39 | 36.75 | 30.75 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:13:39 | 37.07 | 31.07 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:40 | 37.40 | 31.40 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:40 | 37.73 | 31.73 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 12:13:40 | 38.06 | 32.06 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 12:13:41 | 38.39 | 32.39 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/3/2015 12:13:41 | 38.71 | 32.71 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:41 | 39.04 | 33.04 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:41 | 39.37 | 33.37 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:42 | 39.70 | 33.70 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:42 | 40.03 | 34.03 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:42 | 40.35 | 34.35 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:43 | 40.68 | 34.68 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:43 | 41.01 | 35.01 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:43 | 41.34 | 35.34 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:44 | 41.67 | 35.67 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:44 | 41.99 | 35.99 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:44 | 42.32 | 36.32 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:45 | 42.65 | 36.65 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:45 | 42.98 | 36.98 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 12:13:45 | 43.31 | 37.31 | 1,124 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 12:13:45 | 43.64 | 37.64 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 12:13:46 | 43.96 | 37.96 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:13:47 | 44.29 | 38.29 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:13:47 | 44.62 | 38.62 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 12:13:47 | 44.95 | 38.95 | 1,135 | 1.14 | 0.29 | 62.1 |
| 5/3/2015 12:13:47 | 45.28 | 39.28 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:48 | 45.60 | 39.60 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:48 | 45.93 | 39.93 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 12:13:48 | 46.26 | 40.26 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:49 | 46.59 | 40.59 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:49 | 46.92 | 40.92 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:49 | 47.24 | 41.24 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:50 | 47.57 | 41.57 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 12:13:50 | 47.90 | 41.90 | 1,125 | 1.14 | 0.29 | 61.5 |
| 5/3/2015 12:13:50 | 48.23 | 42.23 | 1,131 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 12:13:51 | 48.56 | 42.56 | 1,131 | 1.14 | 0.29 | 61.8 |
| 5/3/2015 12:13:51 | 48.88 | 42.88 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:13:51 | 49.21 | 43.21 | 1,122 | 1.14 | 0.29 | 61.3 |
| 5/3/2015 12:13:51 | 49.54 | 43.54 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/3/2015 12:13:52 | 49.87 | 43.87 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:13:52 | 50.20 | 44.20 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 12:13:52 | 50.53 | 44.53 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 12:13:53 | 50.85 | 44.85 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 12:13:53 | 51.18 | 45.18 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 12:13:53 | 51.51 | 45.51 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 12:13:54 | 51.84 | 45.84 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 12:13:54 | 52.17 | 46.17 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 12:13:54 | 52.49 | 46.49 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 12:13:55 | 52.82 | 46.82 | 1,060 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 12:13:55 | 53.15 | 47.15 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 12:13:55 | 53.48 | 47.48 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 12:13:56 | 53.81 | 47.81 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 12:13:56 | 54.13 | 48.13 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 12:13:56 | 54.46 | 48.46 | 1,027 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 12:13:57 | 54.79 | 48.79 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 12:13:57 | 55.12 | 49.12 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/3/2015 12:13:57 | 55.45 | 49.45 | 977 | 1.14 | 0.29 | 53.4 |
| 5/3/2015 12:13:58 | 55.77 | 49.77 | 951 | 1.14 | 0.29 | 52.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 12:13:59 | 56.10 | 50.10 | 925 | 1.14 | 0.29 | 50.6 |
| 5/3/2015 | 12:13:59 | 56.43 | 50.43 | 904 | 1.14 | 0.29 | 49.4 |
| 5/3/2015 | 12:14:00 | 56.76 | 50.76 | 904 | 1.14 | 0.29 | 49.4 |
| 5/3/2015 | 12:14:00 | 57.09 | 51.09 | 890 | 1.14 | 0.29 | 48.7 |
| 5/3/2015 | 12:14:00 | 57.41 | 51.41 | 881 | 1.14 | 0.29 | 48.2 |
| 5/3/2015 | 12:14:01 | 57.74 | 51.74 | 875 | 1.14 | 0.29 | 47.9 |
| 5/3/2015 | 12:14:01 | 58.07 | 52.07 | 875 | 1.14 | 0.29 | 47.9 |
| 5/3/2015 | 12:14:02 | 58.40 | 52.40 | 621 | 1.14 | 0.29 | 34.0 |
| 5/3/2015 | 12:14:13 | 58.73 | 52.73 | 34 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 12:14:14 | 59.06 | 53.06 | 164 | 1.14 | 0.29 | 9.0 |
| 5/3/2015 | 12:14:16 | 59.38 | 53.38 | 256 | 1.14 | 0.29 | 14.0 |
| 5/3/2015 | 12:14:18 | 59.71 | 53.71 | 171 | 1.14 | 0.29 | 9.4 |
| 5/3/2015 | 12:14:19 | 60.04 | 54.04 | 270 | 1.14 | 0.29 | 14.8 |
| 5/3/2015 | 12:14:20 | 60.37 | 54.37 | 329 | 1.14 | 0.29 | 18.0 |
| 5/3/2015 | 12:14:23 | 60.70 | 54.70 | 150 | 1.14 | 0.29 | 8.2 |
| 5/3/2015 | 12:14:31 | 60.99 | 54.99 | 35 | 1.14 | 0.29 | 1.9 |

## P279 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 12:12:30

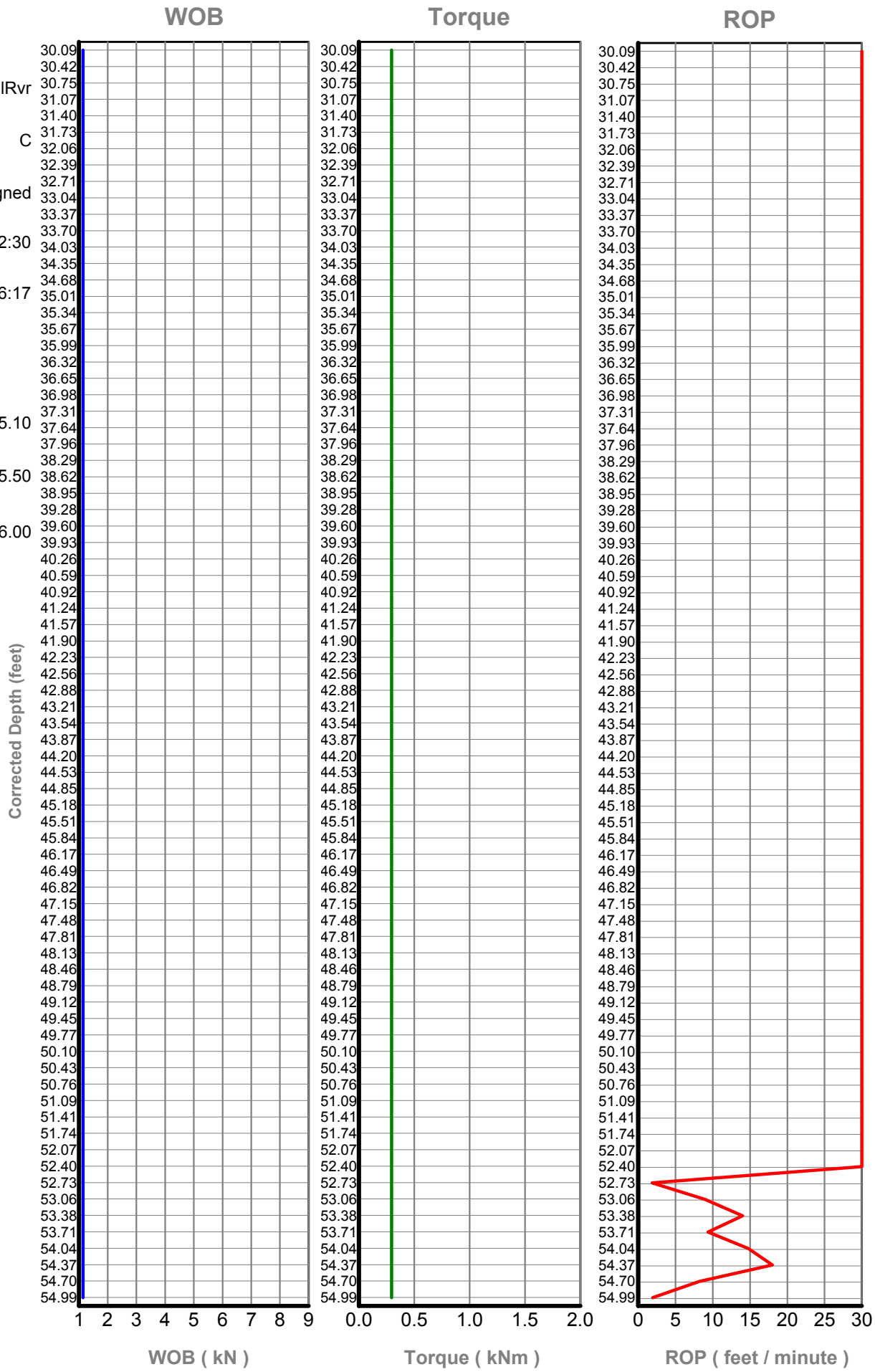
**End Date:**
5/3/2015 12:16:17

**Operator Note:**
'6 6.0 c Auto Complete'

**Northing:**
348,705.10

**Easting:**
225,145.50

**Tide (feet):**
6.00



## Hole: P28 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:27:09 | 34.78 | 30.28 | 1,016 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:09 | 35.11 | 30.61 | 1,016 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:10 | 35.43 | 30.93 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/2/2015 14:27:10 | 35.76 | 31.26 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/2/2015 14:27:10 | 36.09 | 31.59 | 1,030 | 0.54 | 0.17 | 56.3 |
| 5/2/2015 14:27:11 | 36.42 | 31.92 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/2/2015 14:27:11 | 36.75 | 32.25 | 1,020 | 0.54 | 0.17 | 55.8 |
| 5/2/2015 14:27:11 | 37.07 | 32.57 | 1,017 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:12 | 37.40 | 32.90 | 1,025 | 0.54 | 0.17 | 56.1 |
| 5/2/2015 14:27:12 | 37.73 | 33.23 | 1,025 | 0.54 | 0.17 | 56.1 |
| 5/2/2015 14:27:12 | 38.06 | 33.56 | 1,023 | 0.54 | 0.17 | 56.0 |
| 5/2/2015 14:27:13 | 38.39 | 33.89 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/2/2015 14:27:13 | 38.71 | 34.21 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/2/2015 14:27:13 | 39.04 | 34.54 | 1,026 | 0.54 | 0.17 | 56.1 |
| 5/2/2015 14:27:14 | 39.37 | 34.87 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/2/2015 14:27:14 | 39.70 | 35.20 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/2/2015 14:27:15 | 40.03 | 35.53 | 1,027 | 0.54 | 0.17 | 56.1 |
| 5/2/2015 14:27:15 | 40.35 | 35.85 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/2/2015 14:27:15 | 40.68 | 36.18 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:16 | 41.01 | 36.51 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:16 | 41.34 | 36.84 | 1,018 | 0.54 | 0.17 | 55.7 |
| 5/2/2015 14:27:16 | 41.67 | 37.17 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:17 | 41.99 | 37.49 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:17 | 42.32 | 37.82 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:17 | 42.65 | 38.15 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:18 | 42.98 | 38.48 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:18 | 43.31 | 38.81 | 1,018 | 0.54 | 0.17 | 55.6 |
| 5/2/2015 14:27:19 | 43.64 | 39.14 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:19 | 43.96 | 39.46 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:19 | 44.29 | 39.79 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/2/2015 14:27:20 | 44.62 | 40.12 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:20 | 44.95 | 40.45 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:20 | 45.28 | 40.78 | 1,015 | 0.54 | 0.17 | 55.5 |
| 5/2/2015 14:27:21 | 45.60 | 41.10 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:21 | 45.93 | 41.43 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:21 | 46.26 | 41.76 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:22 | 46.59 | 42.09 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:22 | 46.92 | 42.42 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:22 | 47.24 | 42.74 | 1,012 | 0.54 | 0.17 | 55.3 |
| 5/2/2015 14:27:23 | 47.57 | 43.07 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/2/2015 14:27:23 | 47.90 | 43.40 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/2/2015 14:27:36 | 48.23 | 43.73 | 27 | 0.54 | 0.17 | 1.5 |
| 5/2/2015 14:27:40 | 48.56 | 44.06 | 120 | 0.54 | 0.17 | 6.6 |
| 5/2/2015 14:27:47 | 48.88 | 44.38 | 55 | 0.54 | 0.17 | 3.0 |
| 5/2/2015 14:27:53 | 49.21 | 44.71 | 52 | 0.54 | 0.17 | 2.8 |
| 5/2/2015 14:27:59 | 49.54 | 45.04 | 75 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 14:28:04 | 49.87 | 45.37 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 14:28:13 | 50.20 | 45.70 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 14:28:23 | 50.53 | 46.03 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 14:28:27 | 50.67 | 46.17 | 38 | 0.54 | 0.17 | 2.1 |

## P28 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:25:51

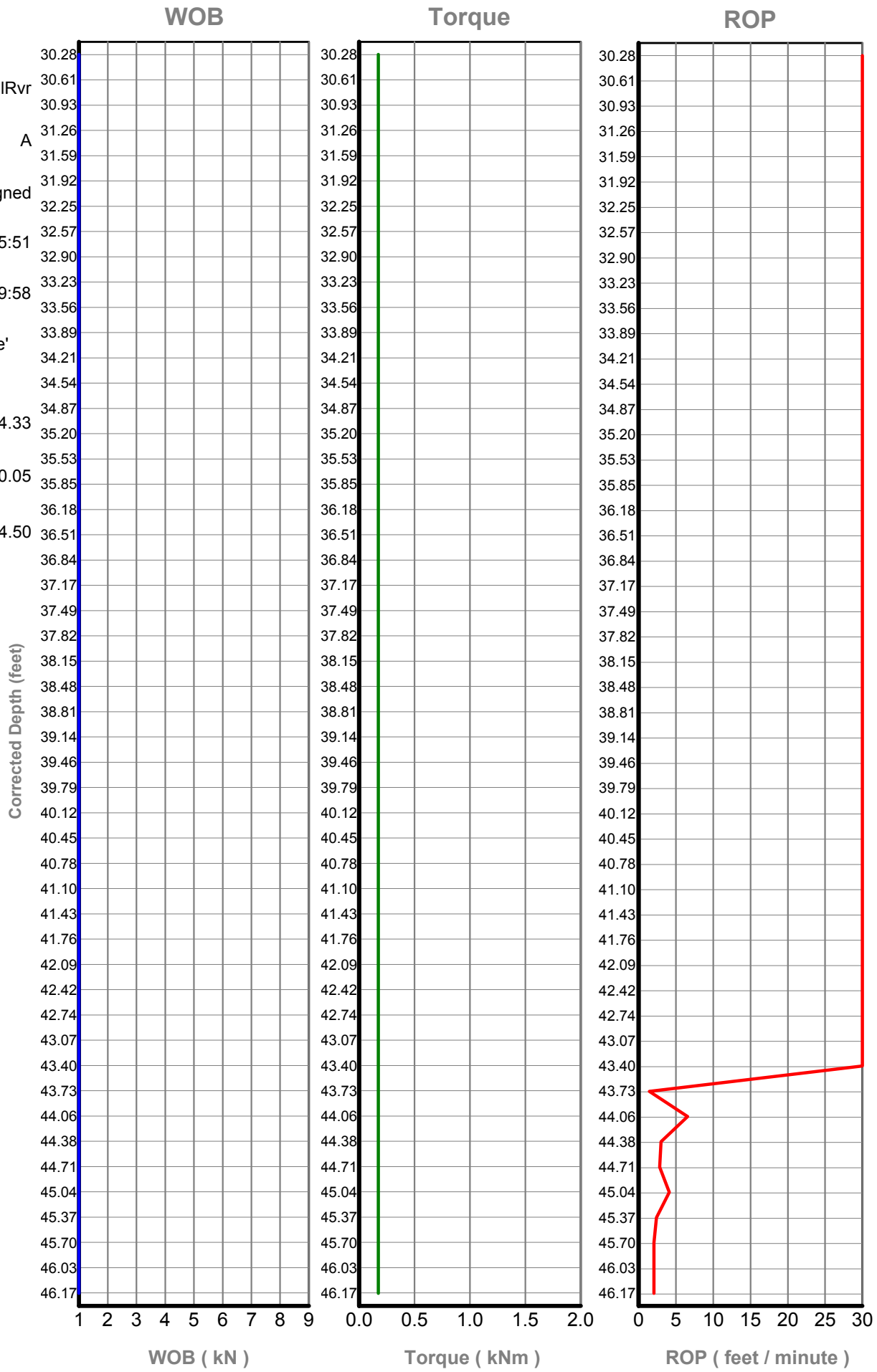
**End Date:**
5/2/2015 14:29:58

**Operator Note:**
'4.5 4.7 a Auto Complete'

**Northing:**
349,914.33

**Easting:**
225,530.05

**Tide (feet):**
4.50



## Hole: P280 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:37:52 | 37.40 | 30.20 | 1,300 | 0.54 | 0.17 | 71.1 |
| 5/3/2015 0:37:53 | 37.73 | 30.53 | 1,300 | 0.54 | 0.17 | 71.1 |
| 5/3/2015 0:37:53 | 38.06 | 30.86 | 1,300 | 0.54 | 0.17 | 71.1 |
| 5/3/2015 0:37:53 | 38.39 | 31.19 | 1,300 | 0.54 | 0.17 | 71.1 |
| 5/3/2015 0:37:53 | 38.71 | 31.51 | 1,308 | 0.54 | 0.17 | 71.5 |
| 5/3/2015 0:37:54 | 39.04 | 31.84 | 1,295 | 0.54 | 0.17 | 70.8 |
| 5/3/2015 0:37:54 | 39.37 | 32.17 | 1,295 | 0.54 | 0.17 | 70.8 |
| 5/3/2015 0:37:54 | 39.70 | 32.50 | 1,303 | 0.54 | 0.17 | 71.2 |
| 5/3/2015 0:37:55 | 40.03 | 32.83 | 1,303 | 0.54 | 0.17 | 71.2 |
| 5/3/2015 0:37:55 | 40.35 | 33.15 | 1,295 | 0.54 | 0.17 | 70.8 |
| 5/3/2015 0:37:55 | 40.68 | 33.48 | 1,295 | 0.54 | 0.17 | 70.8 |
| 5/3/2015 0:37:55 | 41.01 | 33.81 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/3/2015 0:37:56 | 41.34 | 34.14 | 1,278 | 0.54 | 0.17 | 69.9 |
| 5/3/2015 0:37:56 | 41.67 | 34.47 | 1,286 | 0.54 | 0.17 | 70.3 |
| 5/3/2015 0:37:56 | 41.99 | 34.79 | 1,286 | 0.54 | 0.17 | 70.3 |
| 5/3/2015 0:37:56 | 42.32 | 35.12 | 1,302 | 0.54 | 0.17 | 71.2 |
| 5/3/2015 0:37:59 | 42.65 | 35.45 | 437 | 0.54 | 0.17 | 23.9 |
| 5/3/2015 0:38:00 | 42.98 | 35.78 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 0:38:01 | 43.31 | 36.11 | 245 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 0:38:02 | 43.64 | 36.44 | 339 | 0.54 | 0.17 | 18.5 |
| 5/3/2015 0:38:02 | 43.96 | 36.76 | 440 | 0.54 | 0.17 | 24.0 |
| 5/3/2015 0:38:03 | 44.29 | 37.09 | 413 | 0.54 | 0.17 | 22.6 |
| 5/3/2015 0:38:03 | 44.62 | 37.42 | 523 | 0.54 | 0.17 | 28.6 |
| 5/3/2015 0:38:04 | 44.95 | 37.75 | 611 | 0.54 | 0.17 | 33.4 |
| 5/3/2015 0:38:05 | 45.28 | 38.08 | 560 | 0.54 | 0.17 | 30.6 |
| 5/3/2015 0:38:06 | 45.60 | 38.40 | 503 | 0.54 | 0.17 | 27.5 |
| 5/3/2015 0:38:17 | 45.93 | 38.73 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 0:38:18 | 46.26 | 39.06 | 118 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 0:38:18 | 46.59 | 39.39 | 118 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 0:38:18 | 46.92 | 39.72 | 342 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 0:38:19 | 47.24 | 40.04 | 342 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 0:38:19 | 47.57 | 40.37 | 579 | 0.54 | 0.17 | 31.7 |
| 5/3/2015 0:38:19 | 47.90 | 40.70 | 831 | 0.54 | 0.17 | 45.4 |
| 5/3/2015 0:38:20 | 48.23 | 41.03 | 831 | 0.54 | 0.17 | 45.4 |
| 5/3/2015 0:38:20 | 48.56 | 41.36 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 0:38:20 | 48.88 | 41.68 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 0:38:20 | 49.21 | 42.01 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 0:38:21 | 49.54 | 42.34 | 1,061 | 0.54 | 0.17 | 58.0 |
| 5/3/2015 0:38:21 | 49.87 | 42.67 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 0:38:21 | 50.20 | 43.00 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 0:38:22 | 50.53 | 43.33 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 0:38:22 | 50.85 | 43.65 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 0:38:23 | 51.18 | 43.98 | 1,191 | 0.54 | 0.17 | 65.1 |
| 5/3/2015 0:38:23 | 51.51 | 44.31 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 0:38:23 | 51.84 | 44.64 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 0:38:23 | 52.17 | 44.97 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 0:38:24 | 52.49 | 45.29 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 0:38:24 | 52.82 | 45.62 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 0:38:24 | 53.15 | 45.95 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 0:38:25 | 53.48 | 46.28 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 0:38:25 | 53.81 | 46.61 | 1,169 | 0.54 | 0.17 | 63.9 |
| 5/3/2015 0:38:25 | 54.13 | 46.93 | 1,182 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 0:38:26 | 54.46 | 47.26 | 1,182 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 0:38:26 | 54.79 | 47.59 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 0:38:26 | 55.12 | 47.92 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 0:38:26 | 55.45 | 48.25 | 1,137 | 0.54 | 0.17 | 62.2 |
| 5/3/2015 0:38:27 | 55.77 | 48.57 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 0:38:27 | 56.10 | 48.90 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 0:38:27 | 56.43 | 49.23 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 0:38:28 | 56.76 | 49.56 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 0:38:28 | 57.09 | 49.89 | 1,128 | 0.54 | 0.17 | 61.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:38:29 | 57.41 | 50.21 | 854 | 0.54 | 0.17 | 46.7 |
| 5/3/2015 | 0:38:29 | 57.74 | 50.54 | 760 | 0.54 | 0.17 | 41.6 |
| 5/3/2015 | 0:38:30 | 58.07 | 50.87 | 767 | 0.54 | 0.17 | 42.0 |
| 5/3/2015 | 0:38:30 | 58.40 | 51.20 | 767 | 0.54 | 0.17 | 42.0 |
| 5/3/2015 | 0:38:30 | 58.73 | 51.53 | 735 | 0.54 | 0.17 | 40.2 |
| 5/3/2015 | 0:38:31 | 59.06 | 51.86 | 735 | 0.54 | 0.17 | 40.2 |
| 5/3/2015 | 0:38:31 | 59.38 | 52.18 | 735 | 0.54 | 0.17 | 40.2 |
| 5/3/2015 | 0:39:14 | 59.71 | 52.51 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 0:39:20 | 60.04 | 52.84 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 0:39:21 | 60.37 | 53.17 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 | 0:39:21 | 60.70 | 53.50 | 324 | 0.54 | 0.17 | 17.7 |
| 5/3/2015 | 0:39:23 | 61.02 | 53.82 | 397 | 0.54 | 0.17 | 21.7 |
| 5/3/2015 | 0:39:23 | 61.35 | 54.15 | 344 | 0.54 | 0.17 | 18.8 |
| 5/3/2015 | 0:39:24 | 61.68 | 54.48 | 394 | 0.54 | 0.17 | 21.6 |
| 5/3/2015 | 0:39:26 | 62.01 | 54.81 | 195 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 | 0:39:27 | 62.34 | 55.14 | 199 | 0.54 | 0.17 | 10.9 |
| 5/3/2015 | 0:39:27 | 62.66 | 55.46 | 326 | 0.54 | 0.17 | 17.8 |
| 5/3/2015 | 0:39:27 | 62.72 | 55.52 | 326 | 0.54 | 0.17 | 17.8 |

## P280 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 0:36:13

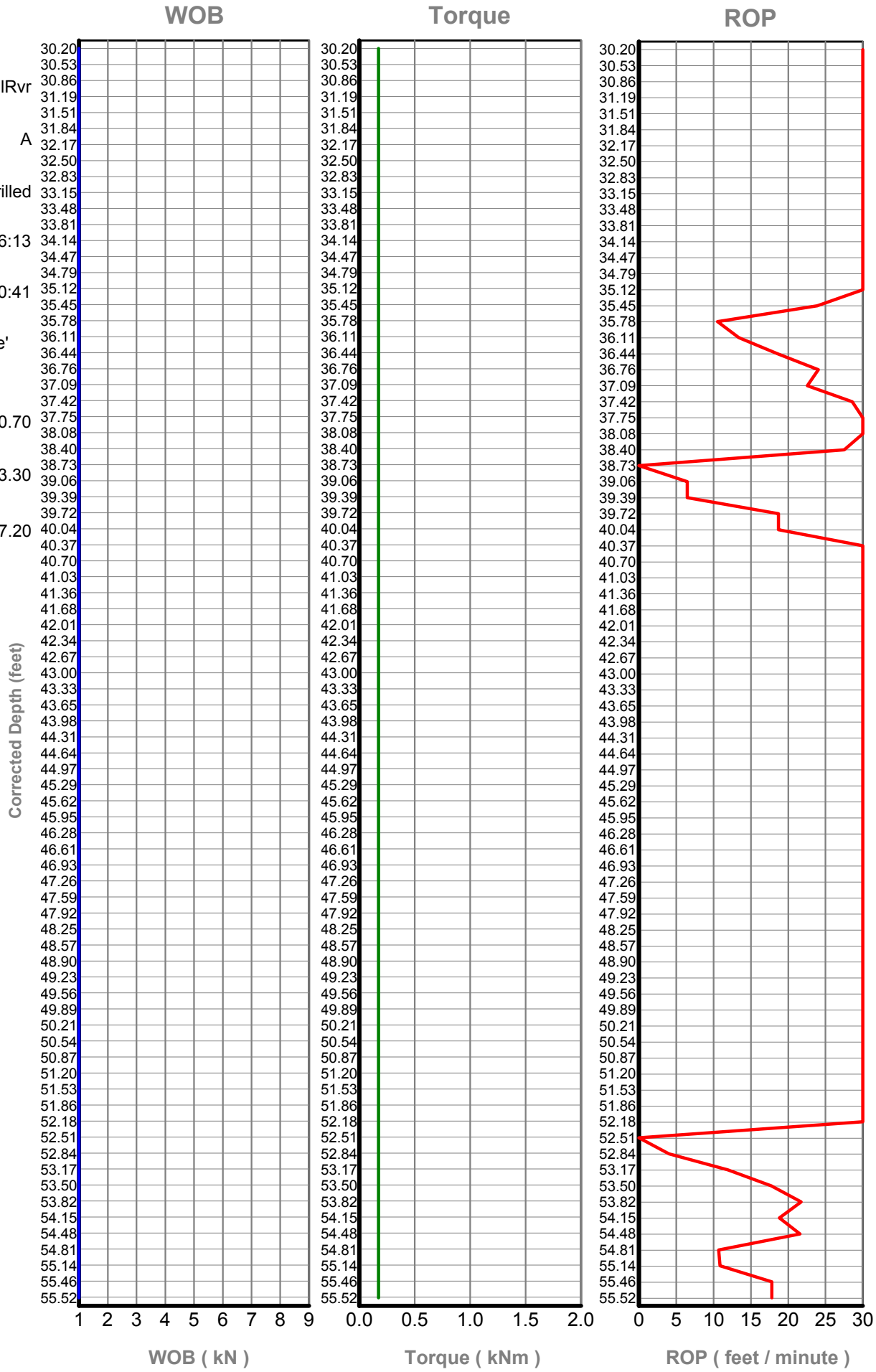
**End Date:**
5/3/2015 0:40:41

**Operator Note:**
'7.2 7.2 a Auto Complete'

**Northing:**
348,740.70

**Easting:**
225,203.30

**Tide (feet):**
7.20



## Hole: P281 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:33:32 | 37.40 | 30.20 | 1,167 | 0.33 | 0.40 | 63.8 |
| 5/3/2015 0:33:32 | 37.73 | 30.53 | 1,167 | 0.33 | 0.40 | 63.8 |
| 5/3/2015 0:33:32 | 38.06 | 30.86 | 1,173 | 0.32 | 0.40 | 64.2 |
| 5/3/2015 0:33:33 | 38.39 | 31.19 | 1,173 | 0.32 | 0.40 | 64.2 |
| 5/3/2015 0:33:33 | 38.71 | 31.51 | 1,173 | 0.32 | 0.39 | 64.2 |
| 5/3/2015 0:33:33 | 39.04 | 31.84 | 1,158 | 0.32 | 0.40 | 63.3 |
| 5/3/2015 0:33:34 | 39.37 | 32.17 | 1,158 | 0.32 | 0.40 | 63.3 |
| 5/3/2015 0:33:34 | 39.70 | 32.50 | 1,155 | 0.32 | 0.41 | 63.2 |
| 5/3/2015 0:33:34 | 40.03 | 32.83 | 1,155 | 0.32 | 0.41 | 63.2 |
| 5/3/2015 0:33:34 | 40.35 | 33.15 | 1,194 | 0.33 | 0.39 | 65.3 |
| 5/3/2015 0:33:35 | 40.68 | 33.48 | 1,194 | 0.33 | 0.39 | 65.3 |
| 5/3/2015 0:33:35 | 41.01 | 33.81 | 1,162 | 0.32 | 0.40 | 63.5 |
| 5/3/2015 0:33:35 | 41.34 | 34.14 | 1,162 | 0.33 | 0.40 | 63.5 |
| 5/3/2015 0:33:36 | 41.67 | 34.47 | 1,162 | 0.33 | 0.40 | 63.5 |
| 5/3/2015 0:33:36 | 41.99 | 34.79 | 1,192 | 0.33 | 0.39 | 65.2 |
| 5/3/2015 0:33:36 | 42.32 | 35.12 | 1,192 | 0.33 | 0.39 | 65.2 |
| 5/3/2015 0:33:36 | 42.65 | 35.45 | 1,205 | 0.33 | 0.39 | 65.9 |
| 5/3/2015 0:33:37 | 42.98 | 35.78 | 1,198 | 0.33 | 0.40 | 65.5 |
| 5/3/2015 0:33:37 | 43.31 | 36.11 | 1,198 | 0.33 | 0.40 | 65.5 |
| 5/3/2015 0:33:37 | 43.64 | 36.44 | 1,180 | 0.33 | 0.39 | 64.5 |
| 5/3/2015 0:33:38 | 43.96 | 36.76 | 1,180 | 0.33 | 0.39 | 64.5 |
| 5/3/2015 0:33:38 | 44.29 | 37.09 | 1,199 | 0.33 | 0.39 | 65.6 |
| 5/3/2015 0:33:38 | 44.62 | 37.42 | 1,199 | 0.33 | 0.39 | 65.6 |
| 5/3/2015 0:33:38 | 44.95 | 37.75 | 1,190 | 0.33 | 0.40 | 65.1 |
| 5/3/2015 0:33:39 | 45.28 | 38.08 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/3/2015 0:33:39 | 45.60 | 38.40 | 1,179 | 0.33 | 0.40 | 64.5 |
| 5/3/2015 0:33:40 | 45.93 | 38.73 | 1,176 | 0.33 | 0.40 | 64.3 |
| 5/3/2015 0:33:40 | 46.26 | 39.06 | 1,176 | 0.33 | 0.40 | 64.3 |
| 5/3/2015 0:33:40 | 46.59 | 39.39 | 1,170 | 0.38 | 0.39 | 64.0 |
| 5/3/2015 0:33:41 | 46.92 | 39.72 | 1,170 | 0.38 | 0.39 | 64.0 |
| 5/3/2015 0:33:41 | 47.24 | 40.04 | 1,180 | 0.33 | 0.39 | 64.5 |
| 5/3/2015 0:33:41 | 47.57 | 40.37 | 1,177 | 0.33 | 0.39 | 64.4 |
| 5/3/2015 0:33:42 | 47.90 | 40.70 | 1,177 | 0.33 | 0.39 | 64.4 |
| 5/3/2015 0:33:42 | 48.23 | 41.03 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:42 | 48.56 | 41.36 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:42 | 48.88 | 41.68 | 1,170 | 0.33 | 0.40 | 64.0 |
| 5/3/2015 0:33:43 | 49.21 | 42.01 | 1,186 | 0.33 | 0.39 | 64.9 |
| 5/3/2015 0:33:43 | 49.54 | 42.34 | 1,186 | 0.33 | 0.39 | 64.9 |
| 5/3/2015 0:33:43 | 49.87 | 42.67 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:44 | 50.20 | 43.00 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:44 | 50.53 | 43.33 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:44 | 50.85 | 43.65 | 1,174 | 0.33 | 0.40 | 64.2 |
| 5/3/2015 0:33:44 | 51.18 | 43.98 | 1,177 | 0.33 | 0.40 | 64.3 |
| 5/3/2015 0:33:45 | 51.51 | 44.31 | 1,174 | 0.32 | 0.40 | 64.2 |
| 5/3/2015 0:33:45 | 51.84 | 44.64 | 1,174 | 0.32 | 0.40 | 64.2 |
| 5/3/2015 0:33:45 | 52.17 | 44.97 | 1,159 | 0.32 | 0.40 | 63.4 |
| 5/3/2015 0:33:46 | 52.49 | 45.29 | 1,136 | 0.33 | 0.40 | 62.1 |
| 5/3/2015 0:33:46 | 52.82 | 45.62 | 1,136 | 0.33 | 0.40 | 62.1 |
| 5/3/2015 0:33:46 | 53.15 | 45.95 | 1,111 | 0.32 | 0.40 | 60.8 |
| 5/3/2015 0:33:47 | 53.48 | 46.28 | 1,111 | 0.32 | 0.40 | 60.8 |
| 5/3/2015 0:33:47 | 53.81 | 46.61 | 1,105 | 0.33 | 0.40 | 60.4 |
| 5/3/2015 0:33:47 | 54.13 | 46.93 | 1,082 | 0.32 | 0.40 | 59.2 |
| 5/3/2015 0:33:48 | 54.46 | 47.26 | 1,082 | 0.32 | 0.40 | 59.2 |
| 5/3/2015 0:33:48 | 54.79 | 47.59 | 1,070 | 0.32 | 0.40 | 58.5 |
| 5/3/2015 0:33:48 | 55.12 | 47.92 | 1,068 | 0.32 | 0.41 | 58.4 |
| 5/3/2015 0:33:49 | 55.45 | 48.25 | 1,068 | 0.32 | 0.41 | 58.4 |
| 5/3/2015 0:33:49 | 55.77 | 48.57 | 1,062 | 0.32 | 0.41 | 58.1 |
| 5/3/2015 0:33:49 | 56.10 | 48.90 | 1,032 | 0.32 | 0.41 | 56.4 |
| 5/3/2015 0:33:50 | 56.43 | 49.23 | 1,032 | 0.32 | 0.41 | 56.4 |
| 5/3/2015 0:33:50 | 56.76 | 49.56 | 1,032 | 0.32 | 0.41 | 56.4 |
| 5/3/2015 0:33:51 | 57.09 | 49.89 | 1,003 | 0.31 | 0.41 | 54.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:33:51 | 57.41 | 50.21 | 994 | 0.32 | 0.41 | 54.4 |
| 5/3/2015 | 0:33:52 | 57.74 | 50.54 | 994 | 0.32 | 0.41 | 54.4 |
| 5/3/2015 | 0:33:52 | 58.07 | 50.87 | 983 | 0.32 | 0.42 | 53.7 |
| 5/3/2015 | 0:33:52 | 58.40 | 51.20 | 980 | 0.32 | 0.41 | 53.6 |
| 5/3/2015 | 0:33:53 | 58.73 | 51.53 | 980 | 0.32 | 0.41 | 53.6 |
| 5/3/2015 | 0:33:53 | 59.06 | 51.86 | 963 | 0.32 | 0.41 | 52.6 |
| 5/3/2015 | 0:33:53 | 59.38 | 52.18 | 960 | 0.32 | 0.41 | 52.5 |
| 5/3/2015 | 0:33:54 | 59.71 | 52.51 | 941 | 0.32 | 0.42 | 51.5 |
| 5/3/2015 | 0:33:54 | 60.04 | 52.84 | 941 | 0.32 | 0.42 | 51.5 |
| 5/3/2015 | 0:33:54 | 60.37 | 53.17 | 941 | 0.32 | 0.42 | 51.5 |
| 5/3/2015 | 0:33:55 | 60.70 | 53.50 | 937 | 0.32 | 0.42 | 51.2 |
| 5/3/2015 | 0:33:55 | 61.02 | 53.82 | 912 | 0.32 | 0.43 | 49.9 |
| 5/3/2015 | 0:33:56 | 61.35 | 54.15 | 801 | 0.30 | 0.54 | 43.8 |
| 5/3/2015 | 0:34:50 | 61.68 | 54.48 | 0 | 2.71 | 0.44 | 0.0 |
| 5/3/2015 | 0:34:50 | 62.01 | 54.81 | 75 | 3.41 | 0.46 | 4.1 |
| 5/3/2015 | 0:34:55 | 62.19 | 54.99 | 29 | 3.80 | 0.50 | 1.6 |

## P281 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:31:44

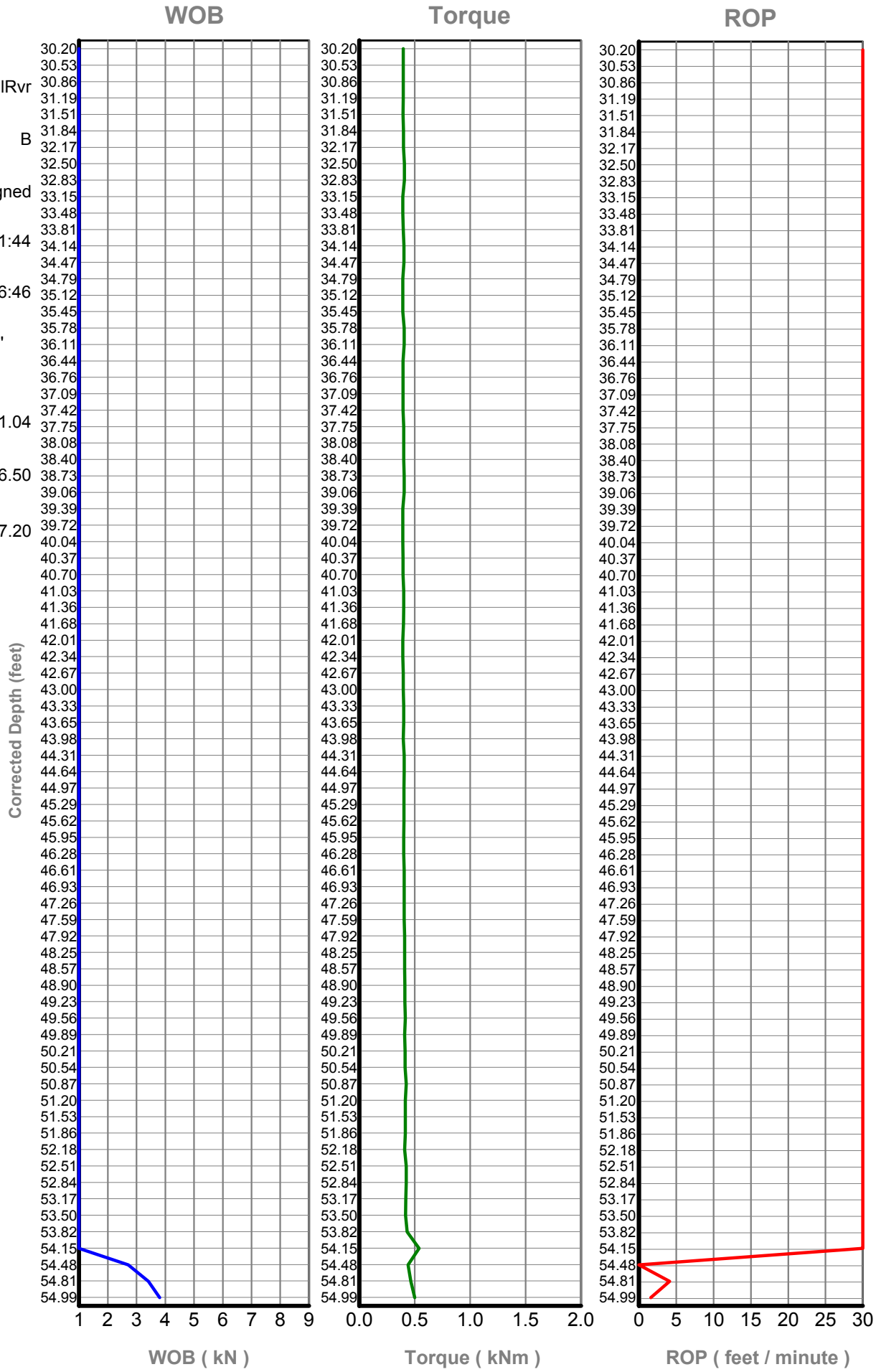
**End Date:**
5/3/2015 0:36:46

**Operator Note:**
'7.2 7.2b Auto Complete'

**Northing:**
348,781.04

**Easting:**
225,266.50

**Tide (feet):**
7.20



## Hole: P282 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 0:32:56 | 37.40 | 30.20 | 873 | 1.14 | 0.29 | 47.7 |
| 5/3/2015 0:32:56 | 37.73 | 30.53 | 878 | 1.14 | 0.29 | 48.0 |
| 5/3/2015 0:32:57 | 38.06 | 30.86 | 878 | 1.14 | 0.29 | 48.0 |
| 5/3/2015 0:32:57 | 38.39 | 31.19 | 872 | 1.14 | 0.29 | 47.7 |
| 5/3/2015 0:32:57 | 38.71 | 31.51 | 870 | 1.14 | 0.29 | 47.6 |
| 5/3/2015 0:32:58 | 39.04 | 31.84 | 869 | 1.14 | 0.29 | 47.5 |
| 5/3/2015 0:32:58 | 39.37 | 32.17 | 869 | 1.14 | 0.29 | 47.5 |
| 5/3/2015 0:32:58 | 39.70 | 32.50 | 878 | 1.14 | 0.29 | 48.0 |
| 5/3/2015 0:32:59 | 40.03 | 32.83 | 887 | 1.14 | 0.29 | 48.5 |
| 5/3/2015 0:32:59 | 40.35 | 33.15 | 910 | 1.14 | 0.29 | 49.8 |
| 5/3/2015 0:33:00 | 40.68 | 33.48 | 910 | 1.14 | 0.29 | 49.8 |
| 5/3/2015 0:33:00 | 41.01 | 33.81 | 931 | 1.14 | 0.29 | 50.9 |
| 5/3/2015 0:33:00 | 41.34 | 34.14 | 945 | 1.14 | 0.29 | 51.7 |
| 5/3/2015 0:33:01 | 41.67 | 34.47 | 957 | 1.14 | 0.29 | 52.3 |
| 5/3/2015 0:33:01 | 41.99 | 34.79 | 957 | 1.14 | 0.29 | 52.3 |
| 5/3/2015 0:33:01 | 42.32 | 35.12 | 957 | 1.14 | 0.29 | 52.3 |
| 5/3/2015 0:33:02 | 42.65 | 35.45 | 951 | 1.14 | 0.29 | 52.0 |
| 5/3/2015 0:33:02 | 42.98 | 35.78 | 951 | 1.14 | 0.29 | 52.0 |
| 5/3/2015 0:33:02 | 43.31 | 36.11 | 948 | 1.14 | 0.29 | 51.9 |
| 5/3/2015 0:33:03 | 43.64 | 36.44 | 946 | 1.14 | 0.29 | 51.7 |
| 5/3/2015 0:33:03 | 43.96 | 36.76 | 946 | 1.14 | 0.29 | 51.7 |
| 5/3/2015 0:33:04 | 44.29 | 37.09 | 946 | 1.14 | 0.29 | 51.7 |
| 5/3/2015 0:33:04 | 44.62 | 37.42 | 946 | 1.14 | 0.29 | 51.7 |
| 5/3/2015 0:33:05 | 44.95 | 37.75 | 954 | 1.14 | 0.29 | 52.2 |
| 5/3/2015 0:33:05 | 45.28 | 38.08 | 954 | 1.14 | 0.29 | 52.2 |
| 5/3/2015 0:33:05 | 45.60 | 38.40 | 951 | 1.14 | 0.29 | 52.0 |
| 5/3/2015 0:33:06 | 45.93 | 38.73 | 954 | 1.14 | 0.29 | 52.2 |
| 5/3/2015 0:33:06 | 46.26 | 39.06 | 954 | 1.14 | 0.29 | 52.2 |
| 5/3/2015 0:33:07 | 46.59 | 39.39 | 954 | 1.14 | 0.29 | 52.2 |
| 5/3/2015 0:33:07 | 46.92 | 39.72 | 957 | 1.14 | 0.29 | 52.3 |
| 5/3/2015 0:33:07 | 47.24 | 40.04 | 961 | 1.14 | 0.29 | 52.5 |
| 5/3/2015 0:33:08 | 47.57 | 40.37 | 963 | 1.14 | 0.29 | 52.7 |
| 5/3/2015 0:33:08 | 47.90 | 40.70 | 963 | 1.14 | 0.29 | 52.7 |
| 5/3/2015 0:33:08 | 48.23 | 41.03 | 960 | 1.14 | 0.29 | 52.5 |
| 5/3/2015 0:33:09 | 48.56 | 41.36 | 972 | 1.14 | 0.29 | 53.1 |
| 5/3/2015 0:33:09 | 48.88 | 41.68 | 972 | 1.14 | 0.29 | 53.1 |
| 5/3/2015 0:33:09 | 49.21 | 42.01 | 969 | 1.14 | 0.29 | 53.0 |
| 5/3/2015 0:33:10 | 49.54 | 42.34 | 968 | 1.14 | 0.29 | 52.9 |
| 5/3/2015 0:33:10 | 49.87 | 42.67 | 966 | 1.14 | 0.29 | 52.8 |
| 5/3/2015 0:33:11 | 50.20 | 43.00 | 966 | 1.14 | 0.29 | 52.8 |
| 5/3/2015 0:33:11 | 50.53 | 43.33 | 957 | 1.14 | 0.29 | 52.3 |
| 5/3/2015 0:33:11 | 50.85 | 43.65 | 931 | 1.14 | 0.29 | 50.9 |
| 5/3/2015 0:33:12 | 51.18 | 43.98 | 907 | 1.14 | 0.29 | 49.6 |
| 5/3/2015 0:33:12 | 51.51 | 44.31 | 881 | 1.14 | 0.29 | 48.2 |
| 5/3/2015 0:33:13 | 51.84 | 44.64 | 881 | 1.14 | 0.29 | 48.2 |
| 5/3/2015 0:33:13 | 52.17 | 44.97 | 858 | 1.14 | 0.29 | 46.9 |
| 5/3/2015 0:33:13 | 52.49 | 45.29 | 846 | 1.14 | 0.29 | 46.3 |
| 5/3/2015 0:33:14 | 52.82 | 45.62 | 841 | 1.14 | 0.29 | 46.0 |
| 5/3/2015 0:33:14 | 53.15 | 45.95 | 834 | 1.14 | 0.29 | 45.6 |
| 5/3/2015 0:33:15 | 53.48 | 46.28 | 834 | 1.14 | 0.29 | 45.6 |
| 5/3/2015 0:33:15 | 53.81 | 46.61 | 825 | 1.14 | 0.29 | 45.1 |
| 5/3/2015 0:33:15 | 54.13 | 46.93 | 835 | 1.14 | 0.29 | 45.7 |
| 5/3/2015 0:33:16 | 54.46 | 47.26 | 830 | 1.14 | 0.29 | 45.4 |
| 5/3/2015 0:33:17 | 54.79 | 47.59 | 826 | 1.14 | 0.29 | 45.2 |
| 5/3/2015 0:33:17 | 55.12 | 47.92 | 815 | 1.14 | 0.29 | 44.5 |
| 5/3/2015 0:33:18 | 55.45 | 48.25 | 802 | 1.14 | 0.29 | 43.9 |
| 5/3/2015 0:33:18 | 55.77 | 48.57 | 778 | 1.14 | 0.29 | 42.5 |
| 5/3/2015 0:33:19 | 56.10 | 48.90 | 767 | 1.14 | 0.29 | 41.9 |
| 5/3/2015 0:33:19 | 56.43 | 49.23 | 767 | 1.14 | 0.29 | 41.9 |
| 5/3/2015 0:33:19 | 56.76 | 49.56 | 751 | 1.14 | 0.29 | 41.0 |
| 5/3/2015 0:33:20 | 57.09 | 49.89 | 742 | 1.14 | 0.29 | 40.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 0:33:20 | 57.41 | 50.21 | 736 | 1.14 | 0.29 | 40.2 |
| 5/3/2015 | 0:33:21 | 57.74 | 50.54 | 735 | 1.14 | 0.29 | 40.2 |
| 5/3/2015 | 0:33:51 | 58.07 | 50.87 | 34 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 0:33:52 | 58.40 | 51.20 | 34 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 | 0:33:53 | 58.73 | 51.53 | 258 | 1.14 | 0.29 | 14.1 |
| 5/3/2015 | 0:33:53 | 59.06 | 51.86 | 418 | 1.14 | 0.29 | 22.9 |
| 5/3/2015 | 0:33:54 | 59.38 | 52.18 | 583 | 1.14 | 0.29 | 31.9 |
| 5/3/2015 | 0:33:55 | 59.71 | 52.51 | 452 | 1.14 | 0.29 | 24.7 |
| 5/3/2015 | 0:33:55 | 60.04 | 52.84 | 541 | 1.14 | 0.29 | 29.6 |
| 5/3/2015 | 0:33:56 | 60.37 | 53.17 | 535 | 1.14 | 0.29 | 29.2 |
| 5/3/2015 | 0:33:57 | 60.70 | 53.50 | 416 | 1.14 | 0.29 | 22.8 |
| 5/3/2015 | 0:33:57 | 61.02 | 53.82 | 563 | 1.14 | 0.29 | 30.8 |
| 5/3/2015 | 0:33:58 | 61.35 | 54.15 | 563 | 1.14 | 0.29 | 30.8 |
| 5/3/2015 | 0:33:58 | 61.68 | 54.48 | 574 | 1.14 | 0.29 | 31.4 |
| 5/3/2015 | 0:34:00 | 62.01 | 54.81 | 470 | 1.14 | 0.29 | 25.7 |
| 5/3/2015 | 0:34:00 | 62.19 | 54.99 | 470 | 1.14 | 0.29 | 25.7 |

## P282 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 0:31:19

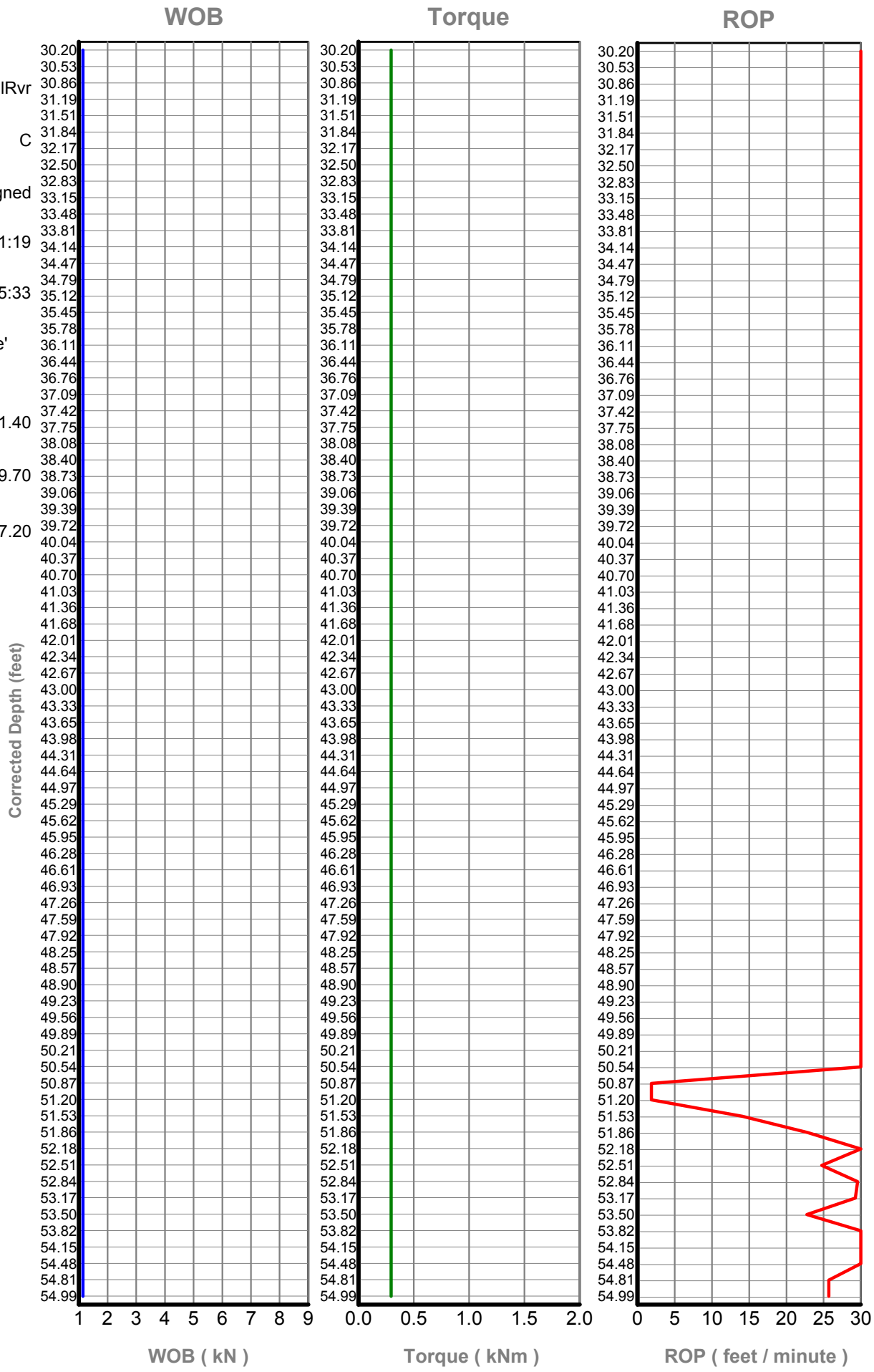
**End Date:**
5/3/2015 0:35:33

**Operator Note:**
'7.2 7.2 c Auto Complete'

**Northing:**
348,821.40

**Easting:**
225,329.70

**Tide (feet):**
7.20



## Hole: P29 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:27:28 | 34.78 | 30.28 | 1,276 | 0.29 | 0.38 | 69.8 |
| 5/2/2015 14:27:28 | 35.11 | 30.61 | 1,276 | 0.29 | 0.38 | 69.8 |
| 5/2/2015 14:27:28 | 35.43 | 30.93 | 1,286 | 0.28 | 0.40 | 70.3 |
| 5/2/2015 14:27:29 | 35.76 | 31.26 | 1,286 | 0.28 | 0.40 | 70.3 |
| 5/2/2015 14:27:29 | 36.09 | 31.59 | 1,284 | 0.28 | 0.40 | 70.2 |
| 5/2/2015 14:27:29 | 36.42 | 31.92 | 1,278 | 0.29 | 0.38 | 69.9 |
| 5/2/2015 14:27:30 | 36.75 | 32.25 | 1,278 | 0.29 | 0.38 | 69.9 |
| 5/2/2015 14:27:30 | 37.07 | 32.57 | 1,281 | 0.28 | 0.39 | 70.0 |
| 5/2/2015 14:27:30 | 37.40 | 32.90 | 1,281 | 0.28 | 0.39 | 70.0 |
| 5/2/2015 14:27:30 | 37.73 | 33.23 | 1,283 | 0.29 | 0.39 | 70.2 |
| 5/2/2015 14:27:31 | 38.06 | 33.56 | 1,283 | 0.29 | 0.39 | 70.2 |
| 5/2/2015 14:27:31 | 38.39 | 33.89 | 1,280 | 0.29 | 0.38 | 70.0 |
| 5/2/2015 14:27:31 | 38.71 | 34.21 | 1,280 | 0.29 | 0.38 | 70.0 |
| 5/2/2015 14:27:31 | 39.04 | 34.54 | 1,283 | 0.29 | 0.38 | 70.2 |
| 5/2/2015 14:27:32 | 39.37 | 34.87 | 1,283 | 0.29 | 0.38 | 70.2 |
| 5/2/2015 14:27:32 | 39.70 | 35.20 | 1,282 | 0.29 | 0.38 | 70.1 |
| 5/2/2015 14:27:32 | 40.03 | 35.53 | 1,282 | 0.29 | 0.38 | 70.1 |
| 5/2/2015 14:27:33 | 40.35 | 35.85 | 1,292 | 0.28 | 0.38 | 70.7 |
| 5/2/2015 14:27:33 | 40.68 | 36.18 | 1,292 | 0.28 | 0.38 | 70.7 |
| 5/2/2015 14:27:33 | 41.01 | 36.51 | 1,275 | 0.28 | 0.38 | 69.7 |
| 5/2/2015 14:27:34 | 41.34 | 36.84 | 1,275 | 0.28 | 0.38 | 69.7 |
| 5/2/2015 14:27:34 | 41.67 | 37.17 | 1,275 | 0.28 | 0.38 | 69.7 |
| 5/2/2015 14:27:34 | 41.99 | 37.49 | 1,279 | 0.28 | 0.38 | 70.0 |
| 5/2/2015 14:27:35 | 42.32 | 37.82 | 1,279 | 0.28 | 0.38 | 70.0 |
| 5/2/2015 14:27:35 | 42.65 | 38.15 | 1,285 | 0.28 | 0.39 | 70.3 |
| 5/2/2015 14:27:35 | 42.98 | 38.48 | 1,285 | 0.28 | 0.39 | 70.3 |
| 5/2/2015 14:27:35 | 43.31 | 38.81 | 1,292 | 0.28 | 0.39 | 70.7 |
| 5/2/2015 14:27:36 | 43.64 | 39.14 | 1,292 | 0.28 | 0.39 | 70.7 |
| 5/2/2015 14:27:36 | 43.96 | 39.46 | 1,282 | 0.28 | 0.40 | 70.1 |
| 5/2/2015 14:27:36 | 44.29 | 39.79 | 1,282 | 0.28 | 0.40 | 70.1 |
| 5/2/2015 14:27:36 | 44.62 | 40.12 | 1,296 | 0.27 | 0.40 | 70.9 |
| 5/2/2015 14:27:37 | 44.95 | 40.45 | 1,296 | 0.27 | 0.40 | 70.9 |
| 5/2/2015 14:27:37 | 45.28 | 40.78 | 1,298 | 0.27 | 0.39 | 71.0 |
| 5/2/2015 14:27:37 | 45.60 | 41.10 | 1,298 | 0.27 | 0.39 | 71.0 |
| 5/2/2015 14:27:37 | 45.93 | 41.43 | 1,292 | 0.27 | 0.40 | 70.7 |
| 5/2/2015 14:27:38 | 46.26 | 41.76 | 1,292 | 0.27 | 0.40 | 70.7 |
| 5/2/2015 14:27:38 | 46.59 | 42.09 | 1,289 | 0.28 | 0.39 | 70.5 |
| 5/2/2015 14:27:38 | 46.92 | 42.42 | 1,292 | 0.28 | 0.40 | 70.7 |
| 5/2/2015 14:27:39 | 47.24 | 42.74 | 1,292 | 0.28 | 0.40 | 70.7 |
| 5/2/2015 14:27:39 | 47.57 | 43.07 | 1,302 | 0.28 | 0.39 | 71.2 |
| 5/2/2015 14:27:39 | 47.90 | 43.40 | 1,302 | 0.28 | 0.39 | 71.2 |
| 5/2/2015 14:27:49 | 48.23 | 43.73 | 0 | 2.15 | 0.43 | 0.0 |
| 5/2/2015 14:27:50 | 48.56 | 44.06 | 153 | 3.31 | 0.47 | 8.4 |
| 5/2/2015 14:27:56 | 48.88 | 44.38 | 69 | 3.50 | 0.49 | 3.8 |
| 5/2/2015 14:28:04 | 49.21 | 44.71 | 40 | 2.83 | 0.48 | 2.2 |
| 5/2/2015 14:28:12 | 49.54 | 45.04 | 43 | 2.90 | 0.49 | 2.3 |
| 5/2/2015 14:28:23 | 49.87 | 45.37 | 35 | 2.36 | 0.49 | 1.9 |
| 5/2/2015 14:28:27 | 50.02 | 45.52 | 37 | 2.55 | 0.50 | 2.0 |

## P29 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:18:47

**End Date:**
5/2/2015 14:30:16

**Operator Note:**
'4.5 4.7 b Rock'

**Northing:**
349,954.64

**Easting:**
225,593.63

**Tide (feet):**
4.50



## Hole: P30 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:26:20 | 34.78 | 30.28 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/2/2015 14:26:21 | 35.11 | 30.61 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/2/2015 14:26:21 | 35.43 | 30.93 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 14:26:21 | 35.76 | 31.26 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 14:26:21 | 36.09 | 31.59 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/2/2015 14:26:22 | 36.42 | 31.92 | 1,191 | 1.14 | 0.29 | 65.1 |
| 5/2/2015 14:26:22 | 36.75 | 32.25 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 14:26:22 | 37.07 | 32.57 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 14:26:23 | 37.40 | 32.90 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 14:26:23 | 37.73 | 33.23 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/2/2015 14:26:23 | 38.06 | 33.56 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/2/2015 14:26:23 | 38.39 | 33.89 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 14:26:24 | 38.71 | 34.21 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 14:26:25 | 39.04 | 34.54 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/2/2015 14:26:25 | 39.37 | 34.87 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 14:26:25 | 39.70 | 35.20 | 1,185 | 1.14 | 0.29 | 64.8 |
| 5/2/2015 14:26:25 | 40.03 | 35.53 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/2/2015 14:26:26 | 40.35 | 35.85 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/2/2015 14:26:26 | 40.68 | 36.18 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/2/2015 14:26:26 | 41.01 | 36.51 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/2/2015 14:26:27 | 41.34 | 36.84 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/2/2015 14:26:27 | 41.67 | 37.17 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/2/2015 14:26:27 | 41.99 | 37.49 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 14:26:28 | 42.32 | 37.82 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 14:26:28 | 42.65 | 38.15 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/2/2015 14:26:28 | 42.98 | 38.48 | 1,128 | 1.14 | 0.29 | 61.7 |
| 5/2/2015 14:26:28 | 43.31 | 38.81 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:26:29 | 43.64 | 39.14 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 14:26:29 | 43.96 | 39.46 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 14:26:29 | 44.29 | 39.79 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 14:26:30 | 44.62 | 40.12 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 14:26:30 | 44.95 | 40.45 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 14:26:30 | 45.28 | 40.78 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 14:26:35 | 45.60 | 41.10 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 14:26:36 | 45.93 | 41.43 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 14:26:36 | 46.26 | 41.76 | 203 | 1.14 | 0.29 | 11.1 |
| 5/2/2015 14:26:36 | 46.59 | 42.09 | 435 | 1.14 | 0.29 | 23.8 |
| 5/2/2015 14:26:37 | 46.92 | 42.42 | 435 | 1.14 | 0.29 | 23.8 |
| 5/2/2015 14:27:15 | 47.24 | 42.74 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:27:15 | 47.57 | 43.07 | 112 | 1.14 | 0.29 | 6.1 |
| 5/2/2015 14:27:16 | 47.90 | 43.40 | 258 | 1.14 | 0.29 | 14.1 |
| 5/2/2015 14:27:16 | 48.23 | 43.73 | 408 | 1.14 | 0.29 | 22.3 |
| 5/2/2015 14:27:17 | 48.56 | 44.06 | 551 | 1.14 | 0.29 | 30.1 |
| 5/2/2015 14:27:18 | 48.88 | 44.38 | 640 | 1.14 | 0.29 | 35.0 |
| 5/2/2015 14:27:19 | 49.21 | 44.71 | 333 | 1.14 | 0.29 | 18.2 |
| 5/2/2015 14:27:20 | 49.54 | 45.04 | 277 | 1.14 | 0.29 | 15.1 |
| 5/2/2015 14:27:21 | 49.87 | 45.37 | 353 | 1.14 | 0.29 | 19.3 |
| 5/2/2015 14:27:22 | 50.20 | 45.70 | 424 | 1.14 | 0.29 | 23.2 |
| 5/2/2015 14:27:22 | 50.53 | 46.03 | 439 | 1.14 | 0.29 | 24.0 |
| 5/2/2015 14:27:23 | 50.85 | 46.35 | 454 | 1.14 | 0.29 | 24.8 |
| 5/2/2015 14:27:24 | 51.18 | 46.68 | 465 | 1.14 | 0.29 | 25.4 |
| 5/2/2015 14:27:25 | 51.51 | 47.01 | 465 | 1.14 | 0.29 | 25.4 |
| 5/2/2015 14:27:26 | 51.84 | 47.34 | 460 | 1.14 | 0.29 | 25.1 |
| 5/2/2015 14:27:27 | 52.17 | 47.67 | 451 | 1.14 | 0.29 | 24.6 |
| 5/2/2015 14:27:27 | 52.49 | 47.99 | 433 | 1.14 | 0.29 | 23.7 |
| 5/2/2015 14:27:28 | 52.82 | 48.32 | 399 | 1.14 | 0.29 | 21.8 |
| 5/2/2015 14:27:50 | 53.15 | 48.65 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 14:27:50 | 53.48 | 48.98 | 124 | 1.14 | 0.29 | 6.8 |
| 5/2/2015 14:27:51 | 53.81 | 49.31 | 263 | 1.14 | 0.29 | 14.4 |
| 5/2/2015 14:27:52 | 54.13 | 49.63 | 416 | 1.14 | 0.29 | 22.7 |
| 5/2/2015 14:27:53 | 54.46 | 49.96 | 371 | 1.14 | 0.29 | 20.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:28:01 | 54.79 | 50.29 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 | 14:28:04 | 55.12 | 50.62 | 152 | 1.14 | 0.29 | 8.3 |
| 5/2/2015 | 14:28:49 | 55.45 | 50.95 | 14 | 1.14 | 0.29 | 0.8 |
| 5/2/2015 | 14:28:58 | 55.77 | 51.27 | 42 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 | 14:29:07 | 56.10 | 51.60 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 | 14:29:16 | 56.43 | 51.93 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 | 14:29:27 | 56.76 | 52.26 | 32 | 1.14 | 0.29 | 1.7 |
| 5/2/2015 | 14:29:35 | 57.00 | 52.50 | 35 | 1.14 | 0.29 | 1.9 |

## P30 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:25:19

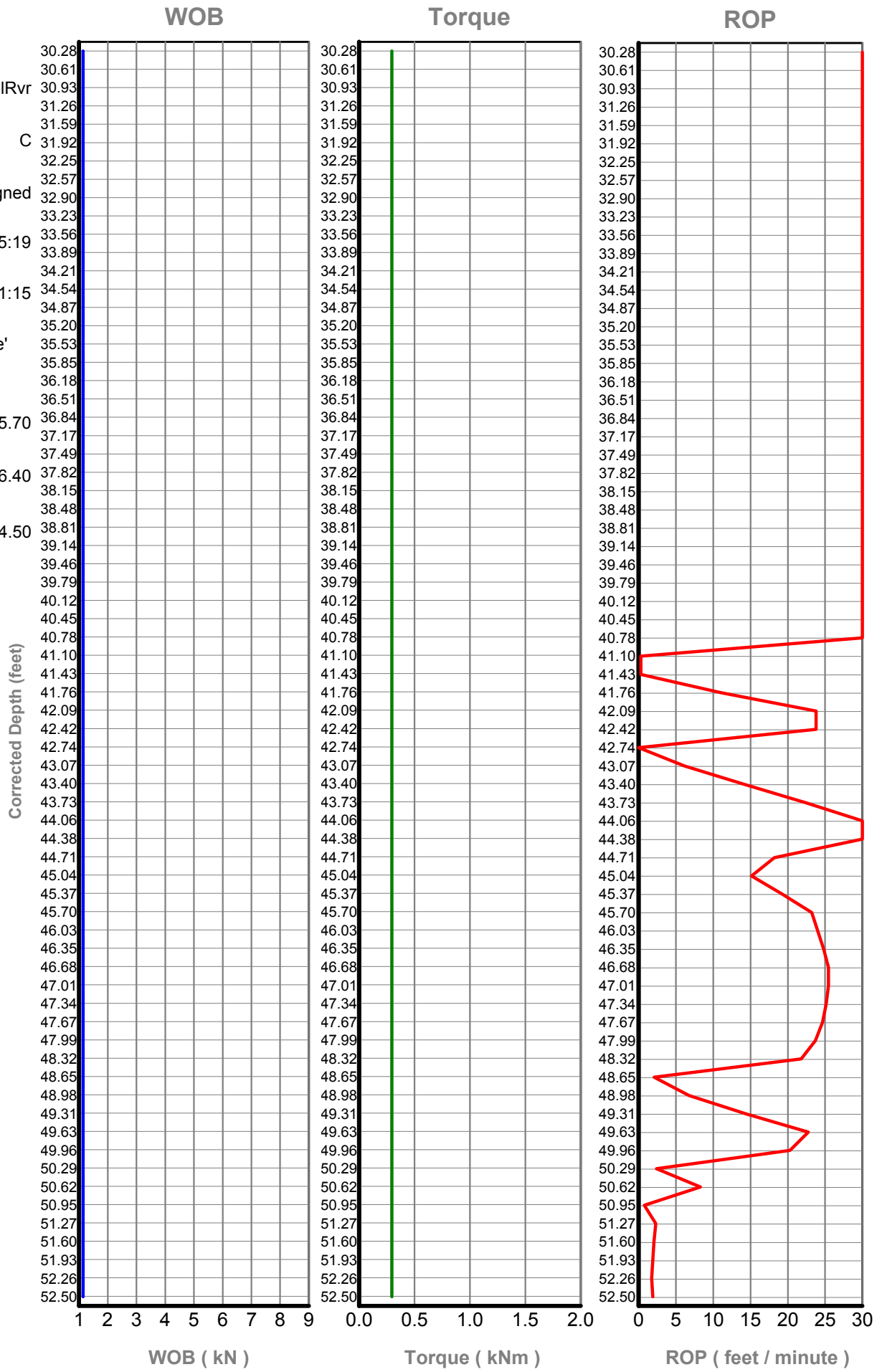
**End Date:**
5/2/2015 14:31:15

**Operator Note:**
'4.5 4.7 c Auto Complete'

**Northing:**
349,995.70

**Easting:**
225,656.40

**Tide (feet):**
4.50



## Hole: P31 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:54:17 | 36.42 | 30.12 | 800 | 1.53 | 0.26 | 43.8 |
| 5/3/2015 23:54:17 | 36.75 | 30.45 | 969 | 1.54 | 0.26 | 53.0 |
| 5/3/2015 23:54:18 | 37.07 | 30.77 | 937 | 1.53 | 0.26 | 51.2 |
| 5/3/2015 23:54:18 | 37.40 | 31.10 | 932 | 1.56 | 0.26 | 50.9 |
| 5/3/2015 23:54:19 | 37.73 | 31.43 | 932 | 1.56 | 0.26 | 50.9 |
| 5/3/2015 23:54:19 | 38.06 | 31.76 | 932 | 1.52 | 0.26 | 50.9 |
| 5/3/2015 23:54:19 | 38.39 | 32.09 | 920 | 1.89 | 0.25 | 50.3 |
| 5/3/2015 23:54:20 | 38.71 | 32.41 | 920 | 1.89 | 0.25 | 50.3 |
| 5/3/2015 23:54:20 | 39.04 | 32.74 | 907 | 1.61 | 0.28 | 49.6 |
| 5/3/2015 23:54:20 | 39.37 | 33.07 | 907 | 1.61 | 0.26 | 49.6 |
| 5/3/2015 23:54:21 | 39.70 | 33.40 | 907 | 1.61 | 0.26 | 49.6 |
| 5/3/2015 23:54:21 | 40.03 | 33.73 | 964 | 1.64 | 0.26 | 52.7 |
| 5/3/2015 23:54:21 | 40.35 | 34.05 | 993 | 1.88 | 0.24 | 54.3 |
| 5/3/2015 23:54:22 | 40.68 | 34.38 | 993 | 1.88 | 0.24 | 54.3 |
| 5/3/2015 23:54:22 | 41.01 | 34.71 | 1,054 | 1.83 | 0.24 | 57.7 |
| 5/3/2015 23:54:22 | 41.34 | 35.04 | 1,054 | 1.83 | 0.24 | 57.7 |
| 5/3/2015 23:54:22 | 41.67 | 35.37 | 1,103 | 1.83 | 0.24 | 60.3 |
| 5/3/2015 23:54:23 | 41.99 | 35.69 | 1,103 | 1.83 | 0.24 | 60.3 |
| 5/3/2015 23:54:23 | 42.32 | 36.02 | 1,176 | 1.82 | 0.24 | 64.3 |
| 5/3/2015 23:54:23 | 42.65 | 36.35 | 1,183 | 1.82 | 0.24 | 64.7 |
| 5/3/2015 23:54:24 | 42.98 | 36.68 | 1,183 | 1.82 | 0.24 | 64.7 |
| 5/3/2015 23:54:24 | 43.31 | 37.01 | 1,214 | 1.81 | 0.24 | 66.4 |
| 5/3/2015 23:54:25 | 43.64 | 37.34 | 1,214 | 1.81 | 0.24 | 66.4 |
| 5/3/2015 23:54:24 | 43.96 | 37.66 | 1,197 | 1.84 | 0.24 | 65.5 |
| 5/3/2015 23:54:25 | 44.29 | 37.99 | 1,197 | 1.84 | 0.24 | 65.5 |
| 5/3/2015 23:54:25 | 44.62 | 38.32 | 1,197 | 1.84 | 0.24 | 65.5 |
| 5/3/2015 23:54:26 | 44.95 | 38.65 | 1,213 | 1.83 | 0.24 | 66.3 |
| 5/3/2015 23:54:26 | 45.28 | 38.98 | 1,213 | 1.83 | 0.24 | 66.3 |
| 5/3/2015 23:54:26 | 45.60 | 39.30 | 1,192 | 1.83 | 0.24 | 65.2 |
| 5/3/2015 23:54:27 | 45.93 | 39.63 | 1,192 | 1.83 | 0.24 | 65.2 |
| 5/3/2015 23:54:27 | 46.26 | 39.96 | 1,177 | 1.82 | 0.24 | 64.4 |
| 5/3/2015 23:54:27 | 46.59 | 40.29 | 1,177 | 1.82 | 0.24 | 64.4 |
| 5/3/2015 23:54:27 | 46.92 | 40.62 | 1,177 | 1.84 | 0.24 | 64.4 |
| 5/3/2015 23:54:28 | 47.24 | 40.94 | 1,177 | 1.84 | 0.24 | 64.4 |
| 5/3/2015 23:54:28 | 47.57 | 41.27 | 1,200 | 1.86 | 0.24 | 65.6 |
| 5/3/2015 23:54:28 | 47.90 | 41.60 | 1,218 | 1.85 | 0.24 | 66.6 |
| 5/3/2015 23:54:29 | 48.23 | 41.93 | 1,218 | 1.85 | 0.24 | 66.6 |
| 5/3/2015 23:54:29 | 48.56 | 42.26 | 1,206 | 1.83 | 0.24 | 65.9 |
| 5/3/2015 23:54:29 | 48.88 | 42.58 | 1,206 | 1.83 | 0.24 | 65.9 |
| 5/3/2015 23:54:29 | 49.21 | 42.91 | 1,217 | 2.08 | 0.24 | 66.5 |
| 5/3/2015 23:54:30 | 49.54 | 43.24 | 1,167 | 2.47 | 0.24 | 63.8 |
| 5/3/2015 23:54:30 | 49.87 | 43.57 | 1,009 | 2.55 | 0.24 | 55.2 |
| 5/3/2015 23:54:42 | 50.20 | 43.90 | 112 | 1.90 | 0.85 | 6.1 |
| 5/3/2015 23:54:43 | 50.53 | 44.23 | 112 | 1.90 | 0.85 | 6.1 |
| 5/3/2015 23:54:43 | 50.85 | 44.55 | 294 | 1.95 | 0.84 | 16.1 |
| 5/3/2015 23:54:43 | 51.18 | 44.88 | 486 | 1.89 | 0.78 | 26.6 |
| 5/3/2015 23:54:44 | 51.51 | 45.21 | 666 | 2.34 | 0.90 | 36.4 |
| 5/3/2015 23:54:45 | 51.84 | 45.54 | 691 | 2.55 | 1.12 | 37.8 |
| 5/3/2015 23:54:49 | 52.17 | 45.87 | 95 | 2.58 | 1.31 | 5.2 |
| 5/3/2015 23:54:54 | 52.49 | 46.19 | 39 | 2.25 | 1.38 | 2.1 |
| 5/3/2015 23:54:59 | 52.82 | 46.52 | 78 | 2.43 | 1.02 | 4.2 |
| 5/3/2015 23:55:04 | 53.15 | 46.85 | 55 | 2.10 | 1.05 | 3.0 |
| 5/3/2015 23:55:09 | 53.48 | 47.18 | 71 | 2.33 | 0.99 | 3.9 |
| 5/3/2015 23:55:11 | 53.81 | 47.51 | 176 | 2.31 | 0.98 | 9.6 |
| 5/3/2015 23:55:13 | 54.13 | 47.83 | 214 | 2.38 | 0.95 | 11.7 |
| 5/3/2015 23:55:15 | 54.46 | 48.16 | 182 | 1.45 | 1.01 | 10.0 |
| 5/3/2015 23:55:17 | 54.79 | 48.49 | 148 | 2.38 | 1.23 | 8.1 |
| 5/3/2015 23:55:20 | 55.12 | 48.82 | 134 | 2.00 | 1.03 | 7.3 |
| 5/3/2015 23:55:22 | 55.45 | 49.15 | 144 | 2.36 | 1.02 | 7.9 |
| 5/3/2015 23:55:26 | 55.77 | 49.47 | 72 | 2.28 | 1.01 | 3.9 |
| 5/3/2015 23:55:32 | 56.10 | 49.80 | 51 | 2.50 | 1.05 | 2.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 23:55:46 | 56.43 | 50.13 | 41 | 2.71 | 1.21 | 2.3 |
| 5/3/2015 | 23:55:51 | 56.76 | 50.46 | 95 | 2.46 | 1.07 | 5.2 |
| 5/3/2015 | 23:55:54 | 57.09 | 50.79 | 114 | 2.49 | 1.16 | 6.2 |
| 5/3/2015 | 23:55:56 | 57.41 | 51.11 | 127 | 2.48 | 1.18 | 6.9 |
| 5/3/2015 | 23:56:00 | 57.74 | 51.44 | 113 | 2.55 | 1.15 | 6.2 |
| 5/3/2015 | 23:56:03 | 58.07 | 51.77 | 96 | 2.48 | 1.27 | 5.3 |
| 5/3/2015 | 23:56:05 | 58.40 | 52.10 | 128 | 2.41 | 1.06 | 7.0 |
| 5/3/2015 | 23:56:09 | 58.73 | 52.43 | 100 | 2.48 | 1.12 | 5.5 |
| 5/3/2015 | 23:56:14 | 59.06 | 52.76 | 68 | 2.49 | 1.24 | 3.7 |
| 5/3/2015 | 23:56:18 | 59.38 | 53.08 | 87 | 2.57 | 1.45 | 4.7 |
| 5/3/2015 | 23:56:24 | 59.71 | 53.41 | 62 | 2.44 | 1.40 | 3.4 |
| 5/3/2015 | 23:56:30 | 60.04 | 53.74 | 31 | 2.59 | 1.03 | 1.7 |
| 5/3/2015 | 23:56:44 | 60.37 | 54.07 | 23 | 2.55 | 1.09 | 1.2 |
| 5/3/2015 | 23:56:58 | 60.70 | 54.40 | 26 | 2.63 | 1.10 | 1.4 |
| 5/3/2015 | 23:57:05 | 60.88 | 54.58 | 23 | 2.58 | 1.07 | 1.3 |

## P31 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 23:52:04

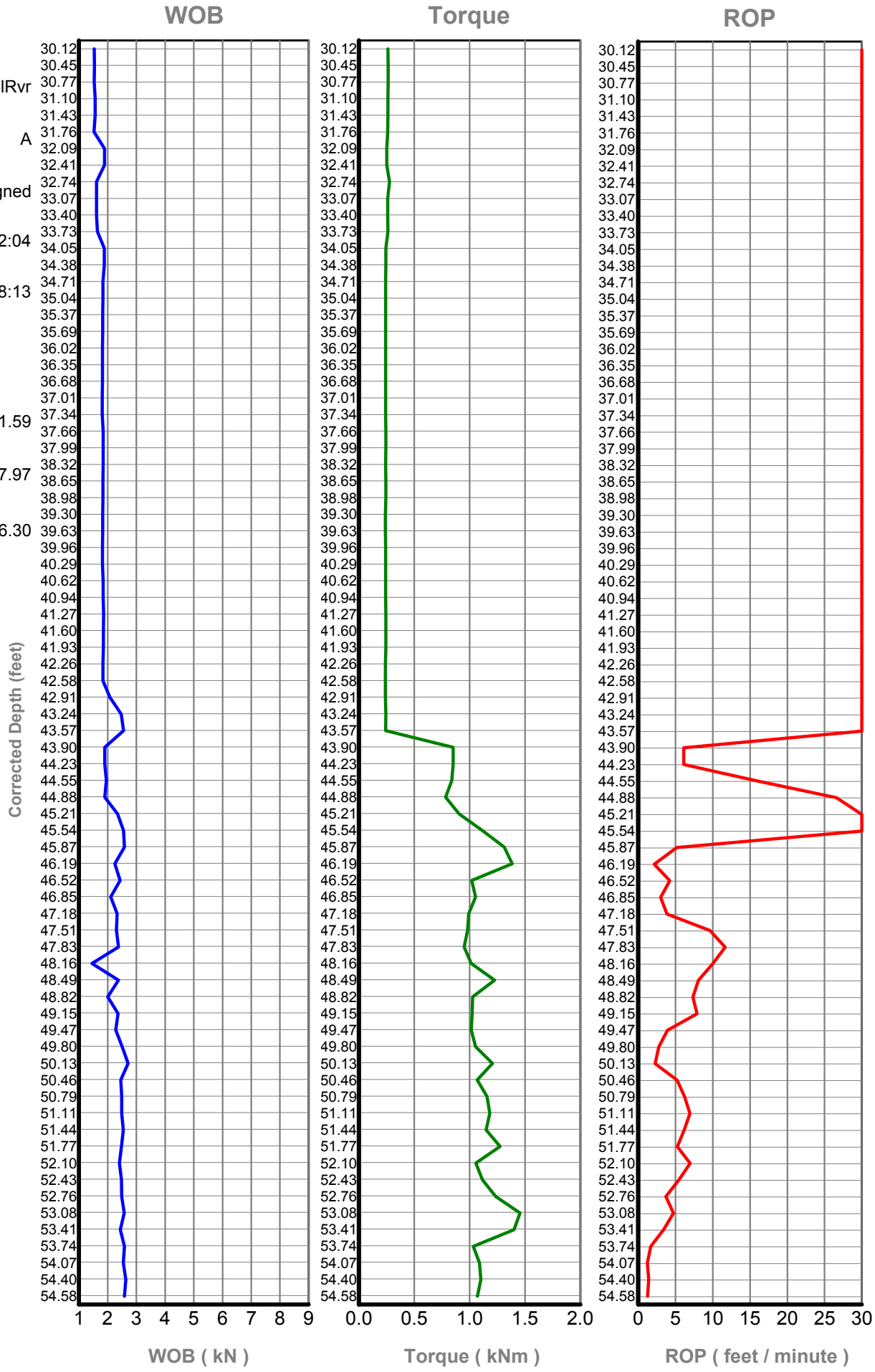
**End Date:**
5/3/2015 23:58:13

**Operator Note:**
'6.3 5.9 A Auto Complete'

**Northing:**
348,781.59

**Easting:**
223,857.97

**Tide (feet):**
6.30



## Hole: P32 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:55:04 | 36.42 | 30.12 | 1,027 | 0.38 | 0.39 | 56.2 |
| 5/3/2015 23:55:04 | 36.75 | 30.45 | 1,058 | 0.38 | 0.32 | 57.9 |
| 5/3/2015 23:55:04 | 37.07 | 30.77 | 1,058 | 0.38 | 0.39 | 57.9 |
| 5/3/2015 23:55:05 | 37.40 | 31.10 | 1,058 | 0.38 | 0.39 | 57.9 |
| 5/3/2015 23:55:05 | 37.73 | 31.43 | 1,052 | 0.38 | 0.39 | 57.5 |
| 5/3/2015 23:55:05 | 38.06 | 31.76 | 1,060 | 0.39 | 0.39 | 58.0 |
| 5/3/2015 23:55:06 | 38.39 | 32.09 | 1,060 | 0.39 | 0.39 | 58.0 |
| 5/3/2015 23:55:06 | 38.71 | 32.41 | 1,044 | 0.37 | 0.39 | 57.1 |
| 5/3/2015 23:55:07 | 39.04 | 32.74 | 1,044 | 0.37 | 0.39 | 57.1 |
| 5/3/2015 23:55:06 | 39.37 | 33.07 | 1,035 | 0.38 | 0.39 | 56.6 |
| 5/3/2015 23:55:07 | 39.70 | 33.40 | 1,035 | 0.38 | 0.40 | 56.6 |
| 5/3/2015 23:55:08 | 40.03 | 33.73 | 1,035 | 0.38 | 0.40 | 56.6 |
| 5/3/2015 23:55:07 | 40.35 | 34.05 | 1,030 | 0.38 | 0.40 | 56.3 |
| 5/3/2015 23:55:08 | 40.68 | 34.38 | 1,038 | 0.37 | 0.39 | 56.7 |
| 5/3/2015 23:55:09 | 41.01 | 34.71 | 1,038 | 0.37 | 0.39 | 56.7 |
| 5/3/2015 23:55:08 | 41.34 | 35.04 | 1,032 | 0.38 | 0.39 | 56.5 |
| 5/3/2015 23:55:09 | 41.67 | 35.37 | 1,032 | 0.37 | 0.39 | 56.5 |
| 5/3/2015 23:55:10 | 41.99 | 35.69 | 1,032 | 0.37 | 0.39 | 56.5 |
| 5/3/2015 23:55:10 | 42.32 | 36.02 | 1,060 | 0.38 | 0.39 | 57.9 |
| 5/3/2015 23:55:10 | 42.65 | 36.35 | 1,082 | 0.38 | 0.39 | 59.2 |
| 5/3/2015 23:55:11 | 42.98 | 36.68 | 1,082 | 0.38 | 0.39 | 59.2 |
| 5/3/2015 23:55:11 | 43.31 | 37.01 | 1,052 | 0.38 | 0.40 | 57.6 |
| 5/3/2015 23:55:11 | 43.64 | 37.34 | 1,028 | 0.38 | 0.39 | 56.2 |
| 5/3/2015 23:55:12 | 43.96 | 37.66 | 1,028 | 0.38 | 0.39 | 56.2 |
| 5/3/2015 23:55:12 | 44.29 | 37.99 | 1,028 | 0.37 | 0.39 | 56.2 |
| 5/3/2015 23:55:12 | 44.62 | 38.32 | 1,038 | 0.38 | 0.40 | 56.8 |
| 5/3/2015 23:55:13 | 44.95 | 38.65 | 1,038 | 0.38 | 0.40 | 56.8 |
| 5/3/2015 23:55:13 | 45.28 | 38.98 | 1,038 | 0.37 | 0.40 | 56.8 |
| 5/3/2015 23:55:13 | 45.60 | 39.30 | 1,029 | 0.38 | 0.40 | 56.3 |
| 5/3/2015 23:55:14 | 45.93 | 39.63 | 1,029 | 0.38 | 0.40 | 56.3 |
| 5/3/2015 23:55:14 | 46.26 | 39.96 | 1,016 | 0.37 | 0.39 | 55.6 |
| 5/3/2015 23:55:14 | 46.59 | 40.29 | 1,054 | 0.39 | 0.39 | 57.6 |
| 5/3/2015 23:55:15 | 46.92 | 40.62 | 1,054 | 0.39 | 0.39 | 57.6 |
| 5/3/2015 23:55:15 | 47.24 | 40.94 | 1,057 | 0.38 | 0.40 | 57.8 |
| 5/3/2015 23:55:15 | 47.57 | 41.27 | 1,057 | 0.38 | 0.40 | 57.8 |
| 5/3/2015 23:55:15 | 47.90 | 41.60 | 1,057 | 0.38 | 0.40 | 57.8 |
| 5/3/2015 23:55:16 | 48.23 | 41.93 | 1,057 | 0.38 | 0.40 | 57.8 |
| 5/3/2015 23:55:16 | 48.56 | 42.26 | 1,057 | 0.38 | 0.40 | 57.8 |
| 5/3/2015 23:55:16 | 48.88 | 42.58 | 1,055 | 0.37 | 0.39 | 57.7 |
| 5/3/2015 23:55:17 | 49.21 | 42.91 | 1,042 | 0.38 | 0.40 | 57.0 |
| 5/3/2015 23:55:17 | 49.54 | 43.24 | 1,042 | 0.38 | 0.40 | 57.0 |
| 5/3/2015 23:55:17 | 49.87 | 43.57 | 1,042 | 0.37 | 0.39 | 57.0 |
| 5/3/2015 23:55:18 | 50.20 | 43.90 | 1,042 | 0.35 | 0.43 | 57.0 |
| 5/3/2015 23:55:23 | 50.53 | 44.23 | 0 | 3.50 | 0.45 | 0.0 |
| 5/3/2015 23:55:33 | 50.85 | 44.55 | 18 | 4.04 | 0.48 | 1.0 |
| 5/3/2015 23:55:41 | 51.18 | 44.88 | 24 | 4.26 | 0.44 | 1.3 |
| 5/3/2015 23:55:42 | 51.51 | 45.21 | 222 | 3.06 | 0.43 | 12.1 |
| 5/3/2015 23:55:42 | 51.84 | 45.54 | 338 | 2.84 | 0.42 | 18.5 |
| 5/3/2015 23:55:46 | 52.17 | 45.87 | 50 | 2.43 | 0.36 | 2.7 |
| 5/3/2015 23:55:46 | 52.49 | 46.19 | 103 | 2.56 | 0.46 | 5.6 |
| 5/3/2015 23:55:47 | 52.82 | 46.52 | 356 | 2.84 | 0.45 | 19.4 |
| 5/3/2015 23:55:49 | 53.15 | 46.85 | 398 | 3.55 | 0.47 | 21.8 |
| 5/3/2015 23:55:52 | 53.48 | 47.18 | 127 | 3.41 | 0.47 | 6.9 |
| 5/3/2015 23:55:56 | 53.81 | 47.51 | 88 | 3.60 | 0.47 | 4.8 |
| 5/3/2015 23:56:12 | 54.13 | 47.83 | 48 | 4.32 | 0.47 | 2.6 |
| 5/3/2015 23:56:15 | 54.46 | 48.16 | 107 | 4.20 | 0.47 | 5.9 |
| 5/3/2015 23:56:18 | 54.79 | 48.49 | 128 | 4.48 | 0.46 | 7.0 |
| 5/3/2015 23:56:20 | 55.12 | 48.82 | 127 | 4.02 | 0.47 | 7.0 |
| 5/3/2015 23:56:25 | 55.45 | 49.15 | 75 | 4.47 | 0.47 | 4.1 |
| 5/3/2015 23:56:29 | 55.77 | 49.47 | 82 | 3.79 | 0.47 | 4.5 |
| 5/3/2015 23:56:33 | 56.10 | 49.80 | 113 | 4.19 | 0.47 | 6.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 23:56:36 | 56.43 | 50.13 | 101 | 3.68 | 0.47 | 5.5 |
| 5/3/2015 | 23:56:39 | 56.76 | 50.46 | 90 | 4.26 | 0.47 | 4.9 |
| 5/3/2015 | 23:56:43 | 57.09 | 50.79 | 125 | 4.76 | 0.47 | 6.8 |
| 5/3/2015 | 23:56:46 | 57.41 | 51.11 | 113 | 4.05 | 0.47 | 6.2 |
| 5/3/2015 | 23:56:54 | 57.74 | 51.44 | 32 | 3.24 | 0.45 | 1.7 |
| 5/3/2015 | 23:57:05 | 58.07 | 51.77 | 32 | 3.35 | 0.48 | 1.7 |
| 5/3/2015 | 23:57:16 | 58.40 | 52.10 | 35 | 3.26 | 0.48 | 1.9 |
| 5/3/2015 | 23:57:21 | 58.59 | 52.29 | 37 | 3.21 | 0.48 | 2.0 |

## P32 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 23:53:35

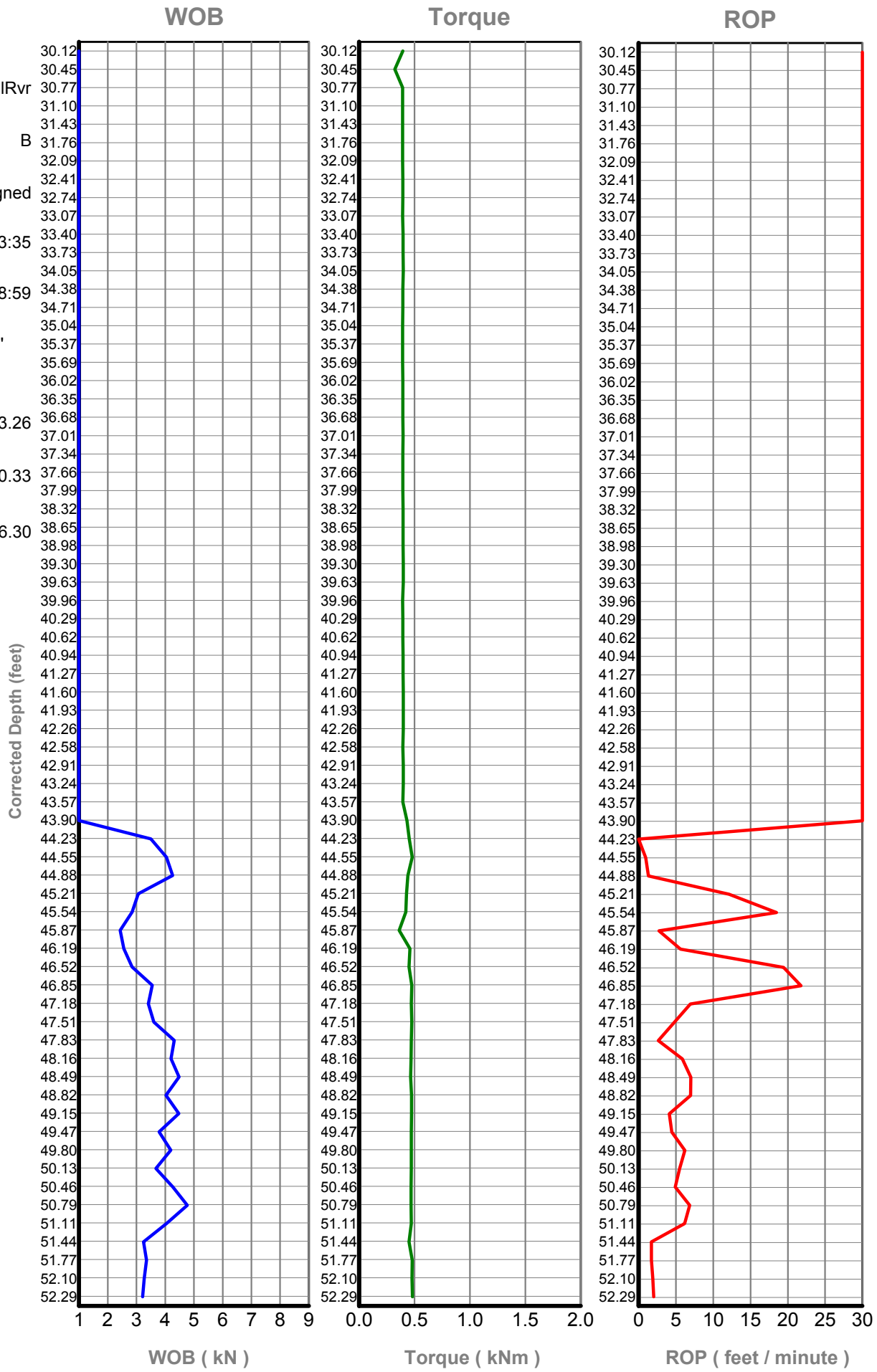
**End Date:**
5/3/2015 23:58:59

**Operator Note:**
'6.3 5.9b Auto Complete'

**Northing:**
348,823.26

**Easting:**
223,920.33

**Tide (feet):**
6.30



## Hole: P33 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 23:55:49 | 36.42 | 30.12 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 23:55:49 | 36.75 | 30.45 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 23:55:50 | 37.07 | 30.77 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 23:55:50 | 37.40 | 31.10 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 23:55:50 | 37.73 | 31.43 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 23:55:51 | 38.06 | 31.76 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 23:55:51 | 38.39 | 32.09 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:51 | 38.71 | 32.41 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:52 | 39.04 | 32.74 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:52 | 39.37 | 33.07 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 23:55:52 | 39.70 | 33.40 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:53 | 40.03 | 33.73 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:53 | 40.35 | 34.05 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/3/2015 23:55:53 | 40.68 | 34.38 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:54 | 41.01 | 34.71 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:54 | 41.34 | 35.04 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 23:55:54 | 41.67 | 35.37 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:55 | 41.99 | 35.69 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:55 | 42.32 | 36.02 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:55 | 42.65 | 36.35 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 23:55:56 | 42.98 | 36.68 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 23:55:56 | 43.31 | 37.01 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:56 | 43.64 | 37.34 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:57 | 43.96 | 37.66 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:57 | 44.29 | 37.99 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:57 | 44.62 | 38.32 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:58 | 44.95 | 38.65 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 23:55:58 | 45.28 | 38.98 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:55:58 | 45.60 | 39.30 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 23:55:59 | 45.93 | 39.63 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 23:55:59 | 46.26 | 39.96 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 23:56:00 | 46.59 | 40.29 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 23:56:00 | 46.92 | 40.62 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 23:56:00 | 47.24 | 40.94 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 23:56:01 | 47.57 | 41.27 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 23:56:01 | 47.90 | 41.60 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 23:56:01 | 48.23 | 41.93 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 23:56:02 | 48.56 | 42.26 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 23:56:02 | 48.88 | 42.58 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 23:56:02 | 49.21 | 42.91 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 23:57:03 | 49.54 | 43.24 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 23:57:03 | 49.87 | 43.57 | 167 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 23:57:04 | 50.20 | 43.90 | 278 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 23:57:21 | 50.53 | 44.23 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:57:36 | 50.85 | 44.55 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:57:41 | 51.18 | 44.88 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 23:57:42 | 51.51 | 45.21 | 197 | 1.14 | 0.29 | 10.7 |
| 5/3/2015 23:57:43 | 51.84 | 45.54 | 285 | 1.14 | 0.29 | 15.6 |
| 5/3/2015 23:57:58 | 52.17 | 45.87 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 23:57:59 | 52.49 | 46.19 | 128 | 1.14 | 0.29 | 7.0 |
| 5/3/2015 23:58:00 | 52.82 | 46.52 | 204 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 23:58:01 | 53.15 | 46.85 | 313 | 1.14 | 0.29 | 17.1 |
| 5/3/2015 23:58:14 | 53.48 | 47.18 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 23:58:16 | 53.81 | 47.51 | 153 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 23:58:18 | 54.13 | 47.83 | 149 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 23:58:21 | 54.46 | 48.16 | 126 | 1.14 | 0.29 | 6.9 |
| 5/3/2015 23:59:30 | 54.79 | 48.49 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 23:59:41 | 55.12 | 48.82 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 23:59:44 | 55.45 | 49.15 | 154 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 23:59:54 | 55.77 | 49.47 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 23:59:56 | 56.10 | 49.80 | 184 | 1.14 | 0.29 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 0:00:13 | 56.43 | 50.13 | 61 | 1.14 | 0.29 | 3.3 |
| 5/4/2015 | 0:00:24 | 56.76 | 50.46 | 9 | 1.14 | 0.29 | 0.5 |
| 5/4/2015 | 0:00:33 | 57.09 | 50.79 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 0:00:51 | 57.41 | 51.11 | 20 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 | 0:00:52 | 57.74 | 51.44 | 146 | 1.14 | 0.29 | 8.0 |
| 5/4/2015 | 0:00:59 | 58.07 | 51.77 | 55 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 | 0:01:06 | 58.40 | 52.10 | 41 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 | 0:01:17 | 58.73 | 52.43 | 47 | 1.14 | 0.29 | 2.6 |
| 5/4/2015 | 0:01:25 | 59.06 | 52.76 | 56 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 | 0:01:33 | 59.38 | 53.08 | 28 | 1.14 | 0.29 | 1.5 |
| 5/4/2015 | 0:01:38 | 59.71 | 53.41 | 75 | 1.14 | 0.29 | 4.1 |
| 5/4/2015 | 0:02:01 | 60.04 | 53.74 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 | 0:02:11 | 60.37 | 54.07 | 35 | 1.14 | 0.29 | 1.9 |
| 5/4/2015 | 0:02:25 | 60.70 | 54.40 | 29 | 1.14 | 0.29 | 1.6 |
| 5/4/2015 | 0:02:33 | 60.88 | 54.58 | 26 | 1.14 | 0.29 | 1.4 |

## P33 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 23:52:16

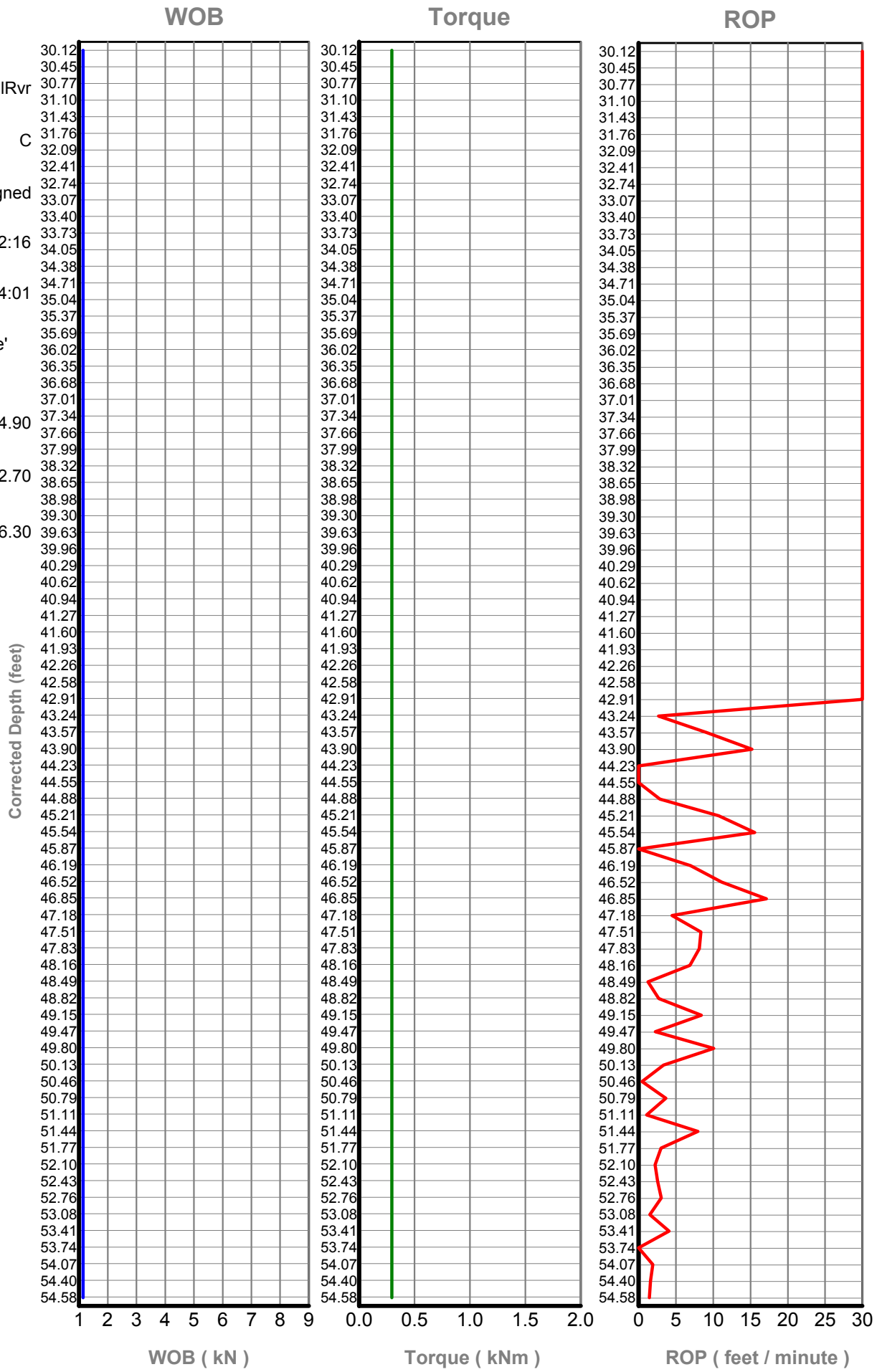
**End Date:**
5/4/2015 0:04:01

**Operator Note:**
'6.3 5.9 c Auto Complete'

**Northing:**
348,864.90

**Easting:**
223,982.70

**Tide (feet):**
6.30



## Hole: P34 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:02:50 | 34.12 | 30.32 | 1,319 | 1.81 | 0.22 | 72.1 |
| 5/3/2015 22:02:50 | 34.45 | 30.65 | 1,319 | 1.81 | 0.22 | 72.1 |
| 5/3/2015 22:02:50 | 34.78 | 30.98 | 1,348 | 1.85 | 0.22 | 73.7 |
| 5/3/2015 22:02:51 | 35.11 | 31.31 | 1,348 | 1.85 | 0.22 | 73.7 |
| 5/3/2015 22:02:51 | 35.43 | 31.63 | 1,348 | 1.80 | 0.22 | 73.7 |
| 5/3/2015 22:02:52 | 35.76 | 31.96 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:52 | 36.09 | 32.29 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:52 | 36.42 | 32.62 | 1,325 | 1.81 | 0.22 | 72.5 |
| 5/3/2015 22:02:53 | 36.75 | 32.95 | 1,325 | 1.81 | 0.22 | 72.5 |
| 5/3/2015 22:02:52 | 37.07 | 33.27 | 1,338 | 1.85 | 0.22 | 73.2 |
| 5/3/2015 22:02:53 | 37.40 | 33.60 | 1,338 | 1.85 | 0.22 | 73.2 |
| 5/3/2015 22:02:53 | 37.73 | 33.93 | 1,338 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:54 | 38.06 | 34.26 | 1,338 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:54 | 38.39 | 34.59 | 1,360 | 1.81 | 0.22 | 74.4 |
| 5/3/2015 22:02:54 | 38.71 | 34.91 | 1,360 | 1.81 | 0.22 | 74.4 |
| 5/3/2015 22:02:54 | 39.04 | 35.24 | 1,360 | 1.82 | 0.22 | 74.4 |
| 5/3/2015 22:02:55 | 39.37 | 35.57 | 1,360 | 1.82 | 0.22 | 74.4 |
| 5/3/2015 22:02:55 | 39.70 | 35.90 | 1,357 | 1.83 | 0.22 | 74.2 |
| 5/3/2015 22:02:55 | 40.03 | 36.23 | 1,357 | 1.83 | 0.22 | 74.2 |
| 5/3/2015 22:02:55 | 40.35 | 36.55 | 1,367 | 1.82 | 0.22 | 74.8 |
| 5/3/2015 22:02:56 | 40.68 | 36.88 | 1,367 | 1.82 | 0.22 | 74.8 |
| 5/3/2015 22:02:56 | 41.01 | 37.21 | 1,357 | 1.81 | 0.21 | 74.2 |
| 5/3/2015 22:02:56 | 41.34 | 37.54 | 1,357 | 1.81 | 0.21 | 74.2 |
| 5/3/2015 22:02:56 | 41.67 | 37.87 | 1,346 | 1.82 | 0.22 | 73.6 |
| 5/3/2015 22:02:57 | 41.99 | 38.19 | 1,346 | 1.82 | 0.22 | 73.6 |
| 5/3/2015 22:02:57 | 42.32 | 38.52 | 1,331 | 1.83 | 0.22 | 72.8 |
| 5/3/2015 22:02:57 | 42.65 | 38.85 | 1,331 | 1.83 | 0.22 | 72.8 |
| 5/3/2015 22:02:57 | 42.98 | 39.18 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:58 | 43.31 | 39.51 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:58 | 43.64 | 39.84 | 1,328 | 1.84 | 0.22 | 72.6 |
| 5/3/2015 22:02:58 | 43.96 | 40.16 | 1,328 | 1.84 | 0.22 | 72.6 |
| 5/3/2015 22:02:58 | 44.29 | 40.49 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:59 | 44.62 | 40.82 | 1,339 | 1.81 | 0.22 | 73.2 |
| 5/3/2015 22:02:59 | 44.95 | 41.15 | 1,334 | 1.80 | 0.22 | 72.9 |
| 5/3/2015 22:02:59 | 45.28 | 41.48 | 1,334 | 1.80 | 0.22 | 72.9 |
| 5/3/2015 22:02:59 | 45.60 | 41.80 | 1,334 | 1.83 | 0.22 | 72.9 |
| 5/3/2015 22:03:00 | 45.93 | 42.13 | 1,334 | 1.83 | 0.22 | 72.9 |
| 5/3/2015 22:03:00 | 46.26 | 42.46 | 1,339 | 1.83 | 0.22 | 73.2 |
| 5/3/2015 22:03:00 | 46.59 | 42.79 | 1,339 | 1.83 | 0.22 | 73.2 |
| 5/3/2015 22:03:00 | 46.92 | 43.12 | 1,347 | 2.12 | 0.22 | 73.7 |
| 5/3/2015 22:03:10 | 47.24 | 43.44 | 0 | 1.74 | 0.90 | 0.0 |
| 5/3/2015 22:03:11 | 47.57 | 43.77 | 46 | 1.83 | 1.33 | 2.5 |
| 5/3/2015 22:03:12 | 47.90 | 44.10 | 290 | 2.92 | 1.32 | 15.9 |
| 5/3/2015 22:03:14 | 48.23 | 44.43 | 179 | 2.34 | 1.48 | 9.8 |
| 5/3/2015 22:03:15 | 48.56 | 44.76 | 241 | 1.74 | 1.12 | 13.2 |
| 5/3/2015 22:03:15 | 48.88 | 45.08 | 293 | 2.61 | 1.15 | 16.0 |
| 5/3/2015 22:03:17 | 49.21 | 45.41 | 414 | 2.67 | 1.44 | 22.6 |
| 5/3/2015 22:03:23 | 49.54 | 45.74 | 0 | 2.38 | 1.07 | 0.0 |
| 5/3/2015 22:03:26 | 49.87 | 46.07 | 123 | 2.27 | 1.40 | 6.7 |
| 5/3/2015 22:03:28 | 50.20 | 46.40 | 208 | 2.60 | 1.50 | 11.4 |
| 5/3/2015 22:03:31 | 50.53 | 46.73 | 118 | 2.59 | 1.62 | 6.5 |
| 5/3/2015 22:04:43 | 50.85 | 47.05 | 37 | 1.57 | 1.31 | 2.0 |
| 5/3/2015 22:04:48 | 51.18 | 47.38 | 72 | 2.00 | 1.42 | 3.9 |
| 5/3/2015 22:04:51 | 51.51 | 47.71 | 116 | 2.06 | 1.24 | 6.3 |
| 5/3/2015 22:04:55 | 51.84 | 48.04 | 96 | 2.06 | 1.43 | 5.3 |
| 5/3/2015 22:04:58 | 52.17 | 48.37 | 127 | 1.81 | 1.13 | 6.9 |
| 5/3/2015 22:05:05 | 52.49 | 48.69 | 3 | 2.38 | 1.43 | 0.2 |
| 5/3/2015 22:05:07 | 52.82 | 49.02 | 143 | 2.10 | 1.12 | 7.8 |
| 5/3/2015 22:05:09 | 53.15 | 49.35 | 172 | 2.29 | 1.16 | 9.4 |
| 5/3/2015 22:05:22 | 53.48 | 49.68 | 81 | 2.72 | 1.16 | 4.4 |
| 5/3/2015 22:05:27 | 53.81 | 50.01 | 70 | 2.65 | 1.32 | 3.9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 22:05:33 | 54.13 | 50.33 | 41 | 2.59 | 1.14 | 2.2 |
| 5/3/2015 22:05:47 | 54.46 | 50.66 | 23 | 2.73 | 1.14 | 1.3 |
| 5/3/2015 22:06:00 | 54.79 | 50.99 | 29 | 2.67 | 1.16 | 1.6 |
| 5/3/2015 22:06:14 | 55.12 | 51.32 | 20 | 2.69 | 1.10 | 1.1 |
| 5/3/2015 22:06:16 | 55.19 | 51.39 | 29 | 2.69 | 1.00 | 1.6 |

## P34 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:49:58

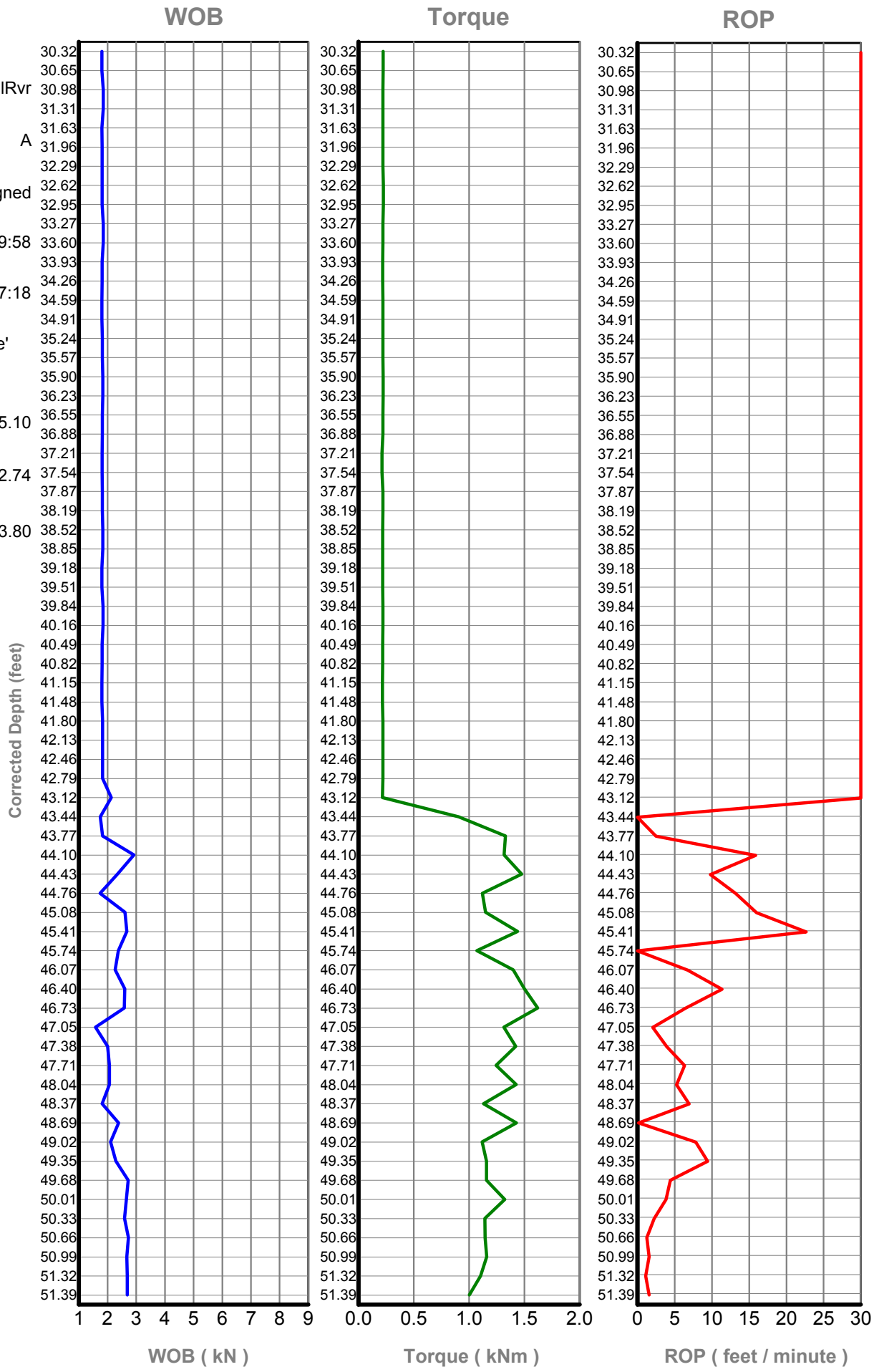
**End Date:**
5/3/2015 22:07:18

**Operator Note:**
'3.8 3.7 a Auto Complete'

**Northing:**
348,905.10

**Easting:**
224,042.74

**Tide (feet):**
3.80



## Hole: P35 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:03:45 | 34.12 | 30.22 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 22:03:45 | 34.45 | 30.55 | 1,223 | 0.32 | 0.37 | 66.9 |
| 5/3/2015 22:03:46 | 34.78 | 30.88 | 1,223 | 0.32 | 0.37 | 66.9 |
| 5/3/2015 22:03:46 | 35.11 | 31.21 | 1,223 | 0.31 | 0.37 | 66.9 |
| 5/3/2015 22:03:46 | 35.43 | 31.53 | 1,223 | 0.31 | 0.37 | 66.9 |
| 5/3/2015 22:03:46 | 35.76 | 31.86 | 1,217 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 22:03:47 | 36.09 | 32.19 | 1,217 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 22:03:47 | 36.42 | 32.52 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 22:03:47 | 36.75 | 32.85 | 1,204 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 22:03:48 | 37.07 | 33.17 | 1,204 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 22:03:48 | 37.40 | 33.50 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 22:03:48 | 37.73 | 33.83 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 22:03:48 | 38.06 | 34.16 | 1,211 | 0.31 | 0.37 | 66.2 |
| 5/3/2015 22:03:49 | 38.39 | 34.49 | 1,211 | 0.31 | 0.37 | 66.2 |
| 5/3/2015 22:03:49 | 38.71 | 34.81 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/3/2015 22:03:49 | 39.04 | 35.14 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/3/2015 22:03:49 | 39.37 | 35.47 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 22:03:50 | 39.70 | 35.80 | 1,228 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 22:03:50 | 40.03 | 36.13 | 1,228 | 0.31 | 0.38 | 67.2 |
| 5/3/2015 22:03:50 | 40.35 | 36.45 | 1,226 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 22:03:51 | 40.68 | 36.78 | 1,226 | 0.31 | 0.38 | 67.0 |
| 5/3/2015 22:03:51 | 41.01 | 37.11 | 1,226 | 0.31 | 0.37 | 67.0 |
| 5/3/2015 22:03:51 | 41.34 | 37.44 | 1,226 | 0.31 | 0.37 | 67.0 |
| 5/3/2015 22:03:51 | 41.67 | 37.77 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 22:03:52 | 41.99 | 38.09 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 22:03:52 | 42.32 | 38.42 | 1,207 | 0.31 | 0.37 | 66.0 |
| 5/3/2015 22:03:52 | 42.65 | 38.75 | 1,204 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 22:03:53 | 42.98 | 39.08 | 1,204 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 22:03:53 | 43.31 | 39.41 | 1,204 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 22:03:54 | 43.64 | 39.74 | 1,204 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 22:03:54 | 43.96 | 40.06 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 22:03:54 | 44.29 | 40.39 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 22:03:54 | 44.62 | 40.72 | 1,217 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 22:03:55 | 44.95 | 41.05 | 1,231 | 0.31 | 0.38 | 67.3 |
| 5/3/2015 22:03:55 | 45.28 | 41.38 | 1,231 | 0.31 | 0.38 | 67.3 |
| 5/3/2015 22:03:55 | 45.60 | 41.70 | 1,235 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 22:03:56 | 45.93 | 42.03 | 1,235 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 22:03:56 | 46.26 | 42.36 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 22:03:56 | 46.59 | 42.69 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/3/2015 22:03:56 | 46.92 | 43.02 | 1,221 | 0.33 | 0.38 | 66.8 |
| 5/3/2015 22:03:57 | 47.24 | 43.34 | 1,221 | 0.33 | 0.38 | 66.8 |
| 5/3/2015 22:04:01 | 47.57 | 43.67 | 0 | 3.65 | 0.46 | 0.0 |
| 5/3/2015 22:04:06 | 47.90 | 44.00 | 3 | 2.89 | 0.43 | 0.2 |
| 5/3/2015 22:04:07 | 48.23 | 44.33 | 183 | 2.85 | 0.44 | 10.0 |
| 5/3/2015 22:04:08 | 48.56 | 44.66 | 325 | 3.73 | 0.45 | 17.8 |
| 5/3/2015 22:04:09 | 48.88 | 44.98 | 329 | 3.14 | 0.45 | 18.0 |
| 5/3/2015 22:04:10 | 49.21 | 45.31 | 267 | 3.43 | 0.45 | 14.6 |
| 5/3/2015 22:04:11 | 49.54 | 45.64 | 275 | 2.97 | 0.44 | 15.1 |
| 5/3/2015 22:04:11 | 49.87 | 45.97 | 330 | 2.63 | 0.42 | 18.0 |
| 5/3/2015 22:04:12 | 50.20 | 46.30 | 469 | 2.88 | 0.43 | 25.6 |
| 5/3/2015 22:04:13 | 50.53 | 46.63 | 543 | 3.22 | 0.46 | 29.7 |
| 5/3/2015 22:04:30 | 50.85 | 46.95 | 0 | 3.49 | 0.46 | 0.0 |
| 5/3/2015 22:04:33 | 51.18 | 47.28 | 116 | 2.89 | 0.47 | 6.3 |
| 5/3/2015 22:04:36 | 51.51 | 47.61 | 101 | 2.88 | 0.46 | 5.5 |
| 5/3/2015 22:04:41 | 51.84 | 47.94 | 100 | 3.66 | 0.47 | 5.5 |
| 5/3/2015 22:04:48 | 52.17 | 48.27 | 55 | 3.48 | 0.46 | 3.0 |
| 5/3/2015 22:04:54 | 52.49 | 48.59 | 17 | 3.82 | 0.47 | 0.9 |
| 5/3/2015 22:05:06 | 52.82 | 48.92 | 55 | 4.06 | 0.46 | 3.0 |
| 5/3/2015 22:05:31 | 53.15 | 49.25 | 23 | 3.64 | 0.46 | 1.3 |
| 5/3/2015 22:05:40 | 53.48 | 49.58 | 8 | 3.35 | 0.47 | 0.4 |
| 5/3/2015 22:05:45 | 53.81 | 49.91 | 76 | 4.24 | 0.39 | 4.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 22:05:48 | 54.13 | 50.23 | 104 | 3.12 | 0.46 | 5.7 |
| 5/3/2015 | 22:05:51 | 54.46 | 50.56 | 140 | 2.95 | 0.46 | 7.6 |
| 5/3/2015 | 22:05:56 | 54.79 | 50.89 | 69 | 2.85 | 0.47 | 3.8 |
| 5/3/2015 | 22:06:01 | 55.12 | 51.22 | 77 | 3.16 | 0.47 | 4.2 |
| 5/3/2015 | 22:06:11 | 55.45 | 51.55 | 58 | 3.24 | 0.47 | 3.2 |
| 5/3/2015 | 22:06:15 | 55.77 | 51.87 | 82 | 3.15 | 0.47 | 4.5 |
| 5/3/2015 | 22:06:20 | 56.10 | 52.20 | 81 | 3.26 | 0.47 | 4.4 |
| 5/3/2015 | 22:06:25 | 56.43 | 52.53 | 72 | 3.18 | 0.47 | 3.9 |
| 5/3/2015 | 22:06:31 | 56.76 | 52.86 | 58 | 4.21 | 0.47 | 3.1 |
| 5/3/2015 | 22:06:37 | 57.09 | 53.19 | 64 | 3.29 | 0.47 | 3.5 |
| 5/3/2015 | 22:06:42 | 57.41 | 53.51 | 78 | 4.54 | 0.46 | 4.3 |
| 5/3/2015 | 22:06:55 | 57.74 | 53.84 | 23 | 2.88 | 0.47 | 1.3 |
| 5/3/2015 | 22:07:10 | 58.07 | 54.17 | 21 | 2.83 | 0.47 | 1.2 |
| 5/3/2015 | 22:07:24 | 58.40 | 54.50 | 38 | 3.41 | 0.46 | 2.1 |
| 5/3/2015 | 22:07:26 | 58.57 | 54.67 | 56 | 3.42 | 0.47 | 3.1 |

## P35 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 22:02:13

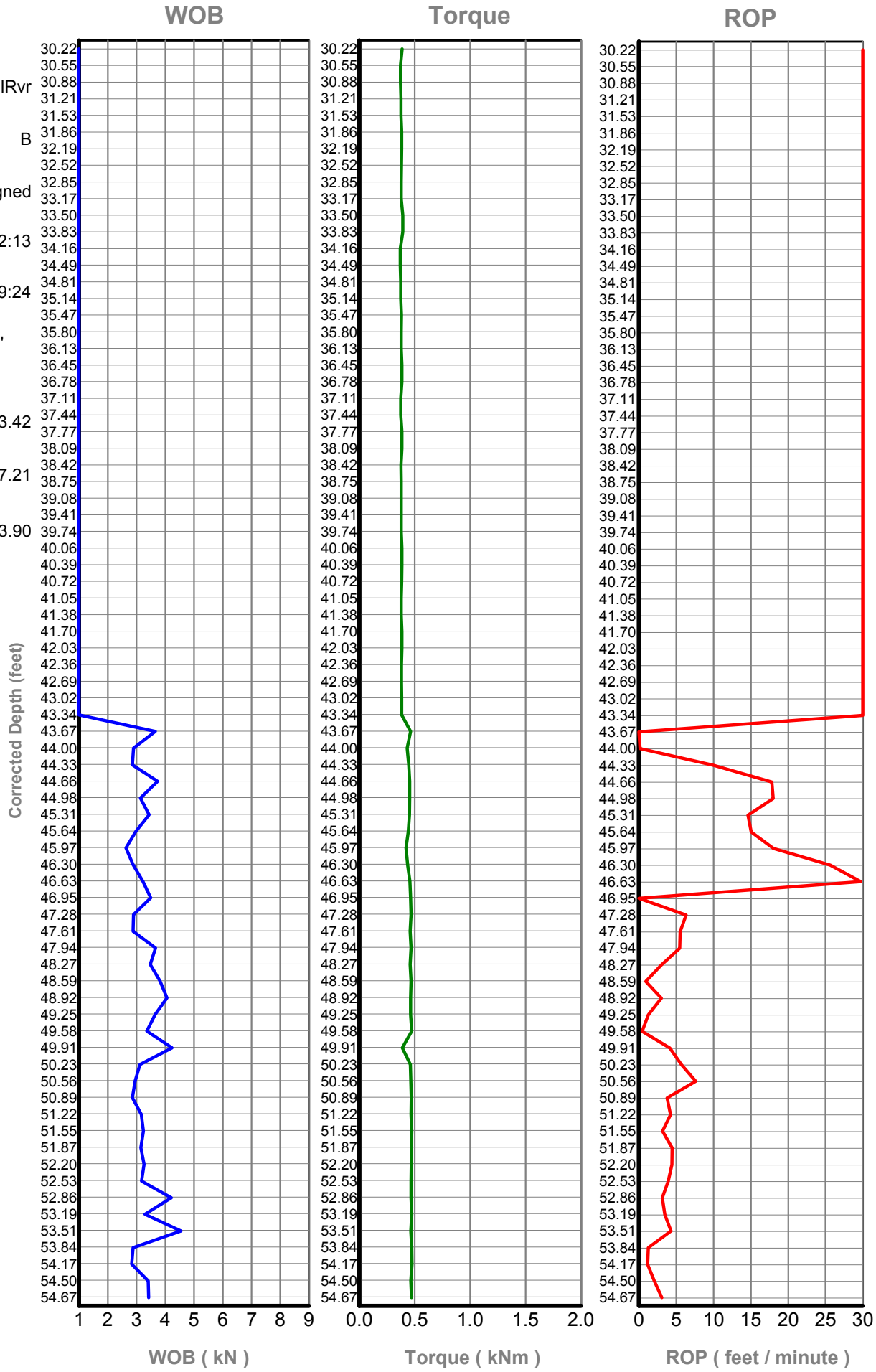
**End Date:**
5/3/2015 22:09:24

**Operator Note:**
'3.9 3.7b Auto Complete'

**Northing:**
348,943.42

**Easting:**
224,107.21

**Tide (feet):**
3.90



## Hole: P36 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 22:02:34 | 34.12 | 30.22 | 1,113 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:34 | 34.45 | 30.55 | 1,113 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:34 | 34.78 | 30.88 | 1,113 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:34 | 35.11 | 31.21 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 22:02:35 | 35.43 | 31.53 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 22:02:35 | 35.76 | 31.86 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/3/2015 22:02:35 | 36.09 | 32.19 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 22:02:36 | 36.42 | 32.52 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 22:02:36 | 36.75 | 32.85 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 22:02:36 | 37.07 | 33.17 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 22:02:37 | 37.40 | 33.50 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 22:02:37 | 37.73 | 33.83 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 22:02:37 | 38.06 | 34.16 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:38 | 38.39 | 34.49 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:38 | 38.71 | 34.81 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:38 | 39.04 | 35.14 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:38 | 39.37 | 35.47 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 22:02:39 | 39.70 | 35.80 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:39 | 40.03 | 36.13 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:39 | 40.35 | 36.45 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:40 | 40.68 | 36.78 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:40 | 41.01 | 37.11 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:40 | 41.34 | 37.44 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 22:02:41 | 41.67 | 37.77 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 22:02:41 | 41.99 | 38.09 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 22:02:41 | 42.32 | 38.42 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 22:02:42 | 42.65 | 38.75 | 1,095 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 22:02:42 | 42.98 | 39.08 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 22:02:42 | 43.31 | 39.41 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 22:02:43 | 43.64 | 39.74 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 22:02:43 | 43.96 | 40.06 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 22:02:43 | 44.29 | 40.39 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 22:02:44 | 44.62 | 40.72 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 22:02:44 | 44.95 | 41.05 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:45 | 45.28 | 41.38 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 22:02:45 | 45.60 | 41.70 | 1,098 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 22:02:45 | 45.93 | 42.03 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:46 | 46.26 | 42.36 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:46 | 46.59 | 42.69 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:46 | 46.92 | 43.02 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:46 | 47.24 | 43.34 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 22:02:56 | 47.57 | 43.67 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:02:57 | 47.90 | 44.00 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 22:02:57 | 48.23 | 44.33 | 167 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 22:03:05 | 48.56 | 44.66 | 43 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 22:03:06 | 48.88 | 44.98 | 202 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 22:03:06 | 49.21 | 45.31 | 325 | 1.14 | 0.29 | 17.7 |
| 5/3/2015 22:03:07 | 49.54 | 45.64 | 439 | 1.14 | 0.29 | 24.0 |
| 5/3/2015 22:03:10 | 49.87 | 45.97 | 107 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 22:03:14 | 50.20 | 46.30 | 42 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 22:03:15 | 50.53 | 46.63 | 151 | 1.14 | 0.29 | 8.3 |
| 5/3/2015 22:03:24 | 50.85 | 46.95 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 22:03:26 | 51.18 | 47.28 | 114 | 1.14 | 0.29 | 6.2 |
| 5/3/2015 22:03:32 | 51.51 | 47.61 | 56 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 22:03:33 | 51.84 | 47.94 | 140 | 1.14 | 0.29 | 7.6 |
| 5/3/2015 22:03:35 | 52.17 | 48.27 | 192 | 1.14 | 0.29 | 10.5 |
| 5/3/2015 22:03:37 | 52.49 | 48.59 | 190 | 1.14 | 0.29 | 10.4 |
| 5/3/2015 22:03:40 | 52.82 | 48.92 | 107 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 22:03:41 | 53.15 | 49.25 | 112 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 22:03:42 | 53.48 | 49.58 | 219 | 1.14 | 0.29 | 12.0 |
| 5/3/2015 22:03:43 | 53.81 | 49.91 | 219 | 1.14 | 0.29 | 12.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 22:03:48 | 54.13 | 50.23 | 104 | 1.14 | 0.29 | 5.7 |
| 5/3/2015 | 22:03:49 | 54.46 | 50.56 | 98 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 | 22:03:50 | 54.79 | 50.89 | 193 | 1.14 | 0.29 | 10.5 |
| 5/3/2015 | 22:03:51 | 55.12 | 51.22 | 352 | 1.14 | 0.29 | 19.2 |
| 5/3/2015 | 22:03:55 | 55.45 | 51.55 | 112 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 | 22:04:02 | 55.77 | 51.87 | 59 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 | 22:04:08 | 56.10 | 52.20 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 | 22:04:11 | 56.43 | 52.53 | 99 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 | 22:07:00 | 56.76 | 52.86 | 18 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 22:07:20 | 57.09 | 53.19 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 22:07:42 | 57.41 | 53.51 | 18 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 22:08:02 | 57.74 | 53.84 | 14 | 1.14 | 0.29 | 0.8 |
| 5/3/2015 | 22:08:05 | 57.79 | 53.89 | 20 | 1.14 | 0.29 | 1.1 |

## P36 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 22:00:54

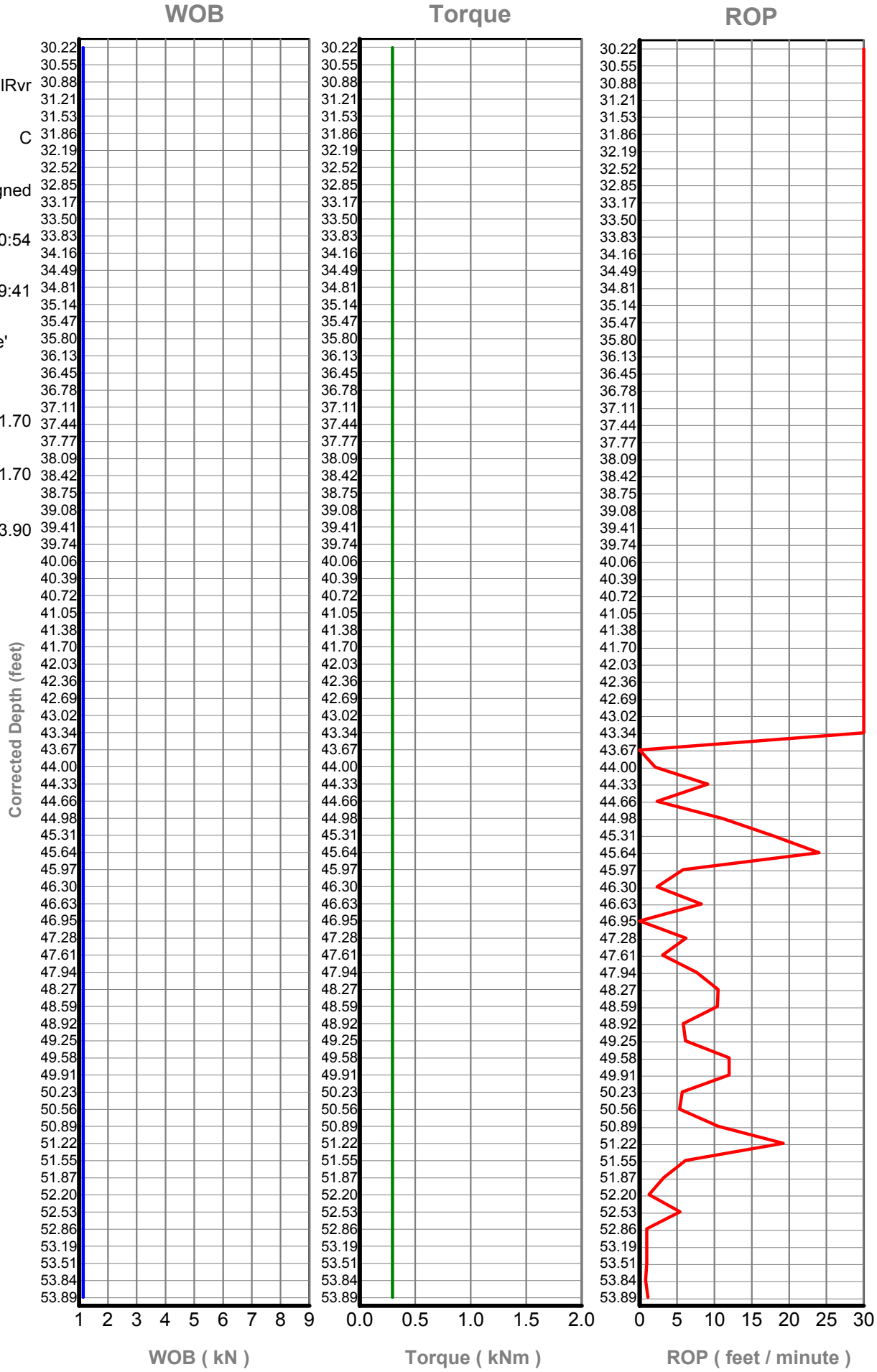
**End Date:**
5/3/2015 22:09:41

**Operator Note:**
'3.9 3.9 c Auto Complete'

**Northing:**
348,981.70

**Easting:**
224,171.70

**Tide (feet):**
3.90



## Hole: P37 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:38:39 | 33.79 | 30.29 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 15:38:40 | 34.12 | 30.62 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 15:38:40 | 34.45 | 30.95 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 15:38:40 | 34.78 | 31.28 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 15:38:41 | 35.11 | 31.61 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 15:38:42 | 35.43 | 31.93 | 951 | 0.54 | 0.17 | 52.0 |
| 5/3/2015 15:38:41 | 35.76 | 32.26 | 943 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:38:42 | 36.09 | 32.59 | 949 | 0.54 | 0.17 | 51.9 |
| 5/3/2015 15:38:43 | 36.42 | 32.92 | 946 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 15:38:43 | 36.75 | 33.25 | 946 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 15:38:43 | 37.07 | 33.57 | 946 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 15:38:44 | 37.40 | 33.90 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:44 | 37.73 | 34.23 | 940 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:44 | 38.06 | 34.56 | 954 | 0.54 | 0.17 | 52.2 |
| 5/3/2015 15:38:45 | 38.39 | 34.89 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:38:45 | 38.71 | 35.21 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 15:38:46 | 39.04 | 35.54 | 945 | 0.54 | 0.17 | 51.7 |
| 5/3/2015 15:38:46 | 39.37 | 35.87 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:46 | 39.70 | 36.20 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:47 | 40.03 | 36.53 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:47 | 40.35 | 36.85 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:47 | 40.68 | 37.18 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:48 | 41.01 | 37.51 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:48 | 41.34 | 37.84 | 939 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 15:38:49 | 41.67 | 38.17 | 939 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 15:38:49 | 41.99 | 38.49 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:49 | 42.32 | 38.82 | 939 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 15:38:50 | 42.65 | 39.15 | 939 | 0.54 | 0.17 | 51.3 |
| 5/3/2015 15:38:50 | 42.98 | 39.48 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:50 | 43.31 | 39.81 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:38:51 | 43.64 | 40.14 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:51 | 43.96 | 40.46 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:38:51 | 44.29 | 40.79 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:38:52 | 44.62 | 41.12 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:38:52 | 44.95 | 41.45 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 15:38:53 | 45.28 | 41.78 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 15:38:53 | 45.60 | 42.10 | 928 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 15:38:54 | 45.93 | 42.43 | 904 | 0.54 | 0.17 | 49.4 |
| 5/3/2015 15:39:03 | 46.26 | 42.76 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 15:39:04 | 46.59 | 43.09 | 234 | 0.54 | 0.17 | 12.8 |
| 5/3/2015 15:39:06 | 46.92 | 43.42 | 291 | 0.54 | 0.17 | 15.9 |
| 5/3/2015 15:39:07 | 47.24 | 43.74 | 308 | 0.54 | 0.17 | 16.8 |
| 5/3/2015 15:39:08 | 47.57 | 44.07 | 345 | 0.54 | 0.17 | 18.8 |
| 5/3/2015 15:39:09 | 47.90 | 44.40 | 343 | 0.54 | 0.17 | 18.7 |
| 5/3/2015 15:39:11 | 48.23 | 44.73 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 15:39:14 | 48.56 | 45.06 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 15:39:15 | 48.88 | 45.38 | 193 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 15:39:16 | 49.21 | 45.71 | 361 | 0.54 | 0.17 | 19.7 |
| 5/3/2015 15:39:16 | 49.54 | 46.04 | 461 | 0.54 | 0.17 | 25.2 |
| 5/3/2015 15:39:17 | 49.87 | 46.37 | 508 | 0.54 | 0.17 | 27.8 |
| 5/3/2015 15:39:18 | 50.20 | 46.70 | 512 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 15:39:19 | 50.53 | 47.03 | 520 | 0.54 | 0.17 | 28.5 |
| 5/3/2015 15:39:19 | 50.85 | 47.35 | 526 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 15:39:20 | 51.18 | 47.68 | 532 | 0.54 | 0.17 | 29.1 |
| 5/3/2015 15:39:21 | 51.51 | 48.01 | 526 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 15:39:22 | 51.84 | 48.34 | 523 | 0.54 | 0.17 | 28.6 |
| 5/3/2015 15:39:22 | 52.17 | 48.67 | 519 | 0.54 | 0.17 | 28.4 |
| 5/3/2015 15:39:23 | 52.49 | 48.99 | 510 | 0.54 | 0.17 | 27.9 |
| 5/3/2015 15:39:23 | 52.82 | 49.32 | 510 | 0.54 | 0.17 | 27.9 |
| 5/3/2015 15:39:24 | 53.15 | 49.65 | 513 | 0.54 | 0.17 | 28.1 |
| 5/3/2015 15:39:25 | 53.48 | 49.98 | 518 | 0.54 | 0.17 | 28.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:39:25 | 53.81 | 50.31 | 524 | 0.54 | 0.17 | 28.6 |
| 5/3/2015 | 15:39:26 | 54.13 | 50.63 | 526 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 | 15:39:27 | 54.46 | 50.96 | 526 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 | 15:39:27 | 54.79 | 51.29 | 527 | 0.54 | 0.17 | 28.8 |
| 5/3/2015 | 15:39:28 | 55.12 | 51.62 | 521 | 0.54 | 0.17 | 28.5 |
| 5/3/2015 | 15:39:29 | 55.45 | 51.95 | 512 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 | 15:39:30 | 55.77 | 52.27 | 512 | 0.54 | 0.17 | 28.0 |
| 5/3/2015 | 15:39:31 | 56.10 | 52.60 | 503 | 0.54 | 0.17 | 27.5 |
| 5/3/2015 | 15:39:31 | 56.43 | 52.93 | 500 | 0.54 | 0.17 | 27.4 |
| 5/3/2015 | 15:39:32 | 56.76 | 53.26 | 497 | 0.54 | 0.17 | 27.2 |
| 5/3/2015 | 15:39:33 | 57.09 | 53.59 | 497 | 0.54 | 0.17 | 27.2 |
| 5/3/2015 | 15:39:33 | 57.41 | 53.91 | 497 | 0.54 | 0.17 | 27.2 |
| 5/3/2015 | 15:39:34 | 57.74 | 54.24 | 463 | 0.54 | 0.17 | 25.3 |
| 5/3/2015 | 15:39:35 | 58.07 | 54.57 | 431 | 0.54 | 0.17 | 23.6 |
| 5/3/2015 | 15:39:36 | 58.40 | 54.90 | 433 | 0.54 | 0.17 | 23.7 |
| 5/3/2015 | 15:39:39 | 58.73 | 55.23 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 | 15:39:39 | 58.94 | 55.44 | 66 | 0.54 | 0.17 | 3.6 |

## P37 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:37:25

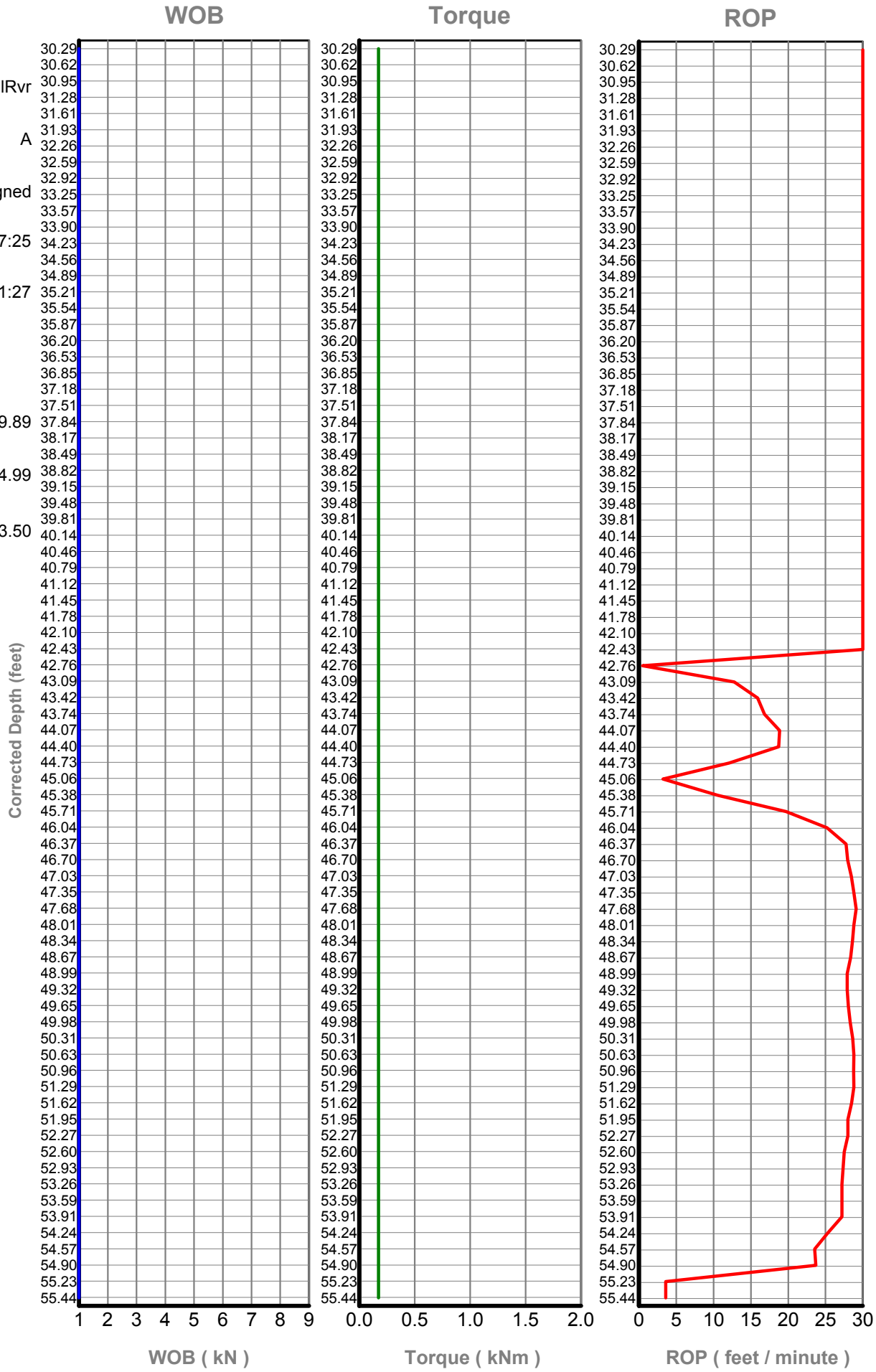
**End Date:**
5/3/2015 15:41:27

**Operator Note:**
'3.5 3.0 a 3.7 a Auto Complete'

**Northing:**
349,019.89

**Easting:**
224,234.99

**Tide (feet):**
3.50



## Hole: P38 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:37:21 | 33.79 | 30.29 | 1,321 | 0.26 | 0.38 | 72.2 |
| 5/3/2015 15:37:21 | 34.12 | 30.62 | 1,321 | 0.26 | 0.38 | 72.2 |
| 5/3/2015 15:37:21 | 34.45 | 30.95 | 1,319 | 0.25 | 0.37 | 72.1 |
| 5/3/2015 15:37:22 | 34.78 | 31.28 | 1,319 | 0.25 | 0.37 | 72.1 |
| 5/3/2015 15:37:22 | 35.11 | 31.61 | 1,316 | 0.25 | 0.39 | 72.0 |
| 5/3/2015 15:37:22 | 35.43 | 31.93 | 1,316 | 0.25 | 0.39 | 72.0 |
| 5/3/2015 15:37:22 | 35.76 | 32.26 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 15:37:23 | 36.09 | 32.59 | 1,319 | 0.26 | 0.38 | 72.1 |
| 5/3/2015 15:37:23 | 36.42 | 32.92 | 1,316 | 0.26 | 0.38 | 72.0 |
| 5/3/2015 15:37:23 | 36.75 | 33.25 | 1,316 | 0.26 | 0.38 | 72.0 |
| 5/3/2015 15:37:23 | 37.07 | 33.57 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 15:37:24 | 37.40 | 33.90 | 1,333 | 0.26 | 0.38 | 72.9 |
| 5/3/2015 15:37:24 | 37.73 | 34.23 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 15:37:24 | 38.06 | 34.56 | 1,321 | 0.26 | 0.39 | 72.2 |
| 5/3/2015 15:37:24 | 38.39 | 34.89 | 1,335 | 0.25 | 0.38 | 73.0 |
| 5/3/2015 15:37:25 | 38.71 | 35.21 | 1,335 | 0.25 | 0.38 | 73.0 |
| 5/3/2015 15:37:25 | 39.04 | 35.54 | 1,324 | 0.25 | 0.38 | 72.4 |
| 5/3/2015 15:37:25 | 39.37 | 35.87 | 1,324 | 0.25 | 0.38 | 72.4 |
| 5/3/2015 15:37:25 | 39.70 | 36.20 | 1,329 | 0.39 | 0.38 | 72.7 |
| 5/3/2015 15:37:26 | 40.03 | 36.53 | 1,329 | 0.39 | 0.38 | 72.7 |
| 5/3/2015 15:37:26 | 40.35 | 36.85 | 1,321 | 0.26 | 0.37 | 72.2 |
| 5/3/2015 15:37:26 | 40.68 | 37.18 | 1,327 | 0.25 | 0.37 | 72.6 |
| 5/3/2015 15:37:27 | 41.01 | 37.51 | 1,327 | 0.25 | 0.37 | 72.6 |
| 5/3/2015 15:37:27 | 41.34 | 37.84 | 1,305 | 0.25 | 0.37 | 71.4 |
| 5/3/2015 15:37:28 | 41.67 | 38.17 | 1,305 | 0.25 | 0.37 | 71.4 |
| 5/3/2015 15:37:28 | 41.99 | 38.49 | 1,296 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 15:37:28 | 42.32 | 38.82 | 1,296 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 15:37:28 | 42.65 | 39.15 | 1,298 | 0.25 | 0.38 | 71.0 |
| 5/3/2015 15:37:29 | 42.98 | 39.48 | 1,298 | 0.25 | 0.38 | 71.0 |
| 5/3/2015 15:37:29 | 43.31 | 39.81 | 1,298 | 0.25 | 0.38 | 71.0 |
| 5/3/2015 15:37:29 | 43.64 | 40.14 | 1,298 | 0.25 | 0.38 | 71.0 |
| 5/3/2015 15:37:29 | 43.96 | 40.46 | 1,312 | 0.25 | 0.38 | 71.7 |
| 5/3/2015 15:37:30 | 44.29 | 40.79 | 1,312 | 0.25 | 0.38 | 71.7 |
| 5/3/2015 15:37:30 | 44.62 | 41.12 | 1,314 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 15:37:30 | 44.95 | 41.45 | 1,314 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 15:37:30 | 45.28 | 41.78 | 1,319 | 0.25 | 0.38 | 72.1 |
| 5/3/2015 15:37:31 | 45.60 | 42.10 | 1,319 | 0.25 | 0.38 | 72.1 |
| 5/3/2015 15:37:31 | 45.93 | 42.43 | 1,331 | 0.25 | 0.37 | 72.8 |
| 5/3/2015 15:37:31 | 46.26 | 42.76 | 1,331 | 0.25 | 0.37 | 72.8 |
| 5/3/2015 15:37:45 | 46.59 | 43.09 | 34 | 4.57 | 0.48 | 1.9 |
| 5/3/2015 15:37:47 | 46.92 | 43.42 | 95 | 3.53 | 0.46 | 5.2 |
| 5/3/2015 15:37:49 | 47.24 | 43.74 | 219 | 3.45 | 0.47 | 12.0 |
| 5/3/2015 15:37:51 | 47.57 | 44.07 | 165 | 3.40 | 0.46 | 9.0 |
| 5/3/2015 15:37:51 | 47.90 | 44.40 | 209 | 3.60 | 0.47 | 11.4 |
| 5/3/2015 15:37:52 | 48.23 | 44.73 | 300 | 2.80 | 0.47 | 16.4 |
| 5/3/2015 15:37:53 | 48.56 | 45.06 | 347 | 3.04 | 0.48 | 19.0 |
| 5/3/2015 15:38:52 | 48.88 | 45.38 | 0 | 2.63 | 0.44 | 0.0 |
| 5/3/2015 15:38:53 | 49.21 | 45.71 | 125 | 2.89 | 0.47 | 6.8 |
| 5/3/2015 15:38:55 | 49.54 | 46.04 | 286 | 2.77 | 0.47 | 15.7 |
| 5/3/2015 15:38:57 | 49.87 | 46.37 | 215 | 2.56 | 0.48 | 11.7 |
| 5/3/2015 15:38:58 | 50.20 | 46.70 | 160 | 2.89 | 0.47 | 8.7 |
| 5/3/2015 15:39:05 | 50.53 | 47.03 | 6 | 3.42 | 0.47 | 0.3 |
| 5/3/2015 15:39:10 | 50.85 | 47.35 | 29 | 3.48 | 0.49 | 1.6 |
| 5/3/2015 15:39:20 | 51.18 | 47.68 | 0 | 3.42 | 0.49 | 0.0 |
| 5/3/2015 15:39:26 | 51.51 | 48.01 | 60 | 2.80 | 0.48 | 3.3 |
| 5/3/2015 15:39:32 | 51.84 | 48.34 | 58 | 3.24 | 0.49 | 3.2 |
| 5/3/2015 15:39:39 | 52.17 | 48.67 | 58 | 3.14 | 0.49 | 3.2 |
| 5/3/2015 15:39:45 | 52.49 | 48.99 | 60 | 2.91 | 0.48 | 3.3 |
| 5/3/2015 15:39:47 | 52.64 | 49.14 | 56 | 3.34 | 0.48 | 3.1 |

## P38 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:35:34

**End Date:**
5/3/2015 15:41:41

**Operator Note:**
'3.5 3.7 b Auto Complete'

**Northing:**
349,058.95

**Easting:**
224,299.01

**Tide (feet):**
3.50



## Hole: P39 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:37:03 | 33.79 | 30.29 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:37:04 | 34.12 | 30.62 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 15:37:04 | 34.45 | 30.95 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 15:37:04 | 34.78 | 31.28 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:37:05 | 35.11 | 31.61 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:37:05 | 35.43 | 31.93 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:37:05 | 35.76 | 32.26 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:37:06 | 36.09 | 32.59 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:37:06 | 36.42 | 32.92 | 1,196 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 15:37:06 | 36.75 | 33.25 | 1,196 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 15:37:06 | 37.07 | 33.57 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:37:07 | 37.40 | 33.90 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:37:07 | 37.73 | 34.23 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:37:07 | 38.06 | 34.56 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:37:08 | 38.39 | 34.89 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:37:08 | 38.71 | 35.21 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:37:09 | 39.04 | 35.54 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:37:09 | 39.37 | 35.87 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:37:09 | 39.70 | 36.20 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 15:37:09 | 40.03 | 36.53 | 1,195 | 1.14 | 0.29 | 65.4 |
| 5/3/2015 15:37:10 | 40.35 | 36.85 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:37:10 | 40.68 | 37.18 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:37:10 | 41.01 | 37.51 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:37:11 | 41.34 | 37.84 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:37:11 | 41.67 | 38.17 | 1,181 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:37:11 | 41.99 | 38.49 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:37:12 | 42.32 | 38.82 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:37:12 | 42.65 | 39.15 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:12 | 42.98 | 39.48 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:12 | 43.31 | 39.81 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:37:13 | 43.64 | 40.14 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:37:13 | 43.96 | 40.46 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:37:13 | 44.29 | 40.79 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:14 | 44.62 | 41.12 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:14 | 44.95 | 41.45 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:14 | 45.28 | 41.78 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:37:14 | 45.60 | 42.10 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 15:37:15 | 45.93 | 42.43 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 15:37:15 | 46.26 | 42.76 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 15:37:15 | 46.59 | 43.09 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:37:16 | 46.92 | 43.42 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:37:30 | 47.24 | 43.74 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 15:37:32 | 47.57 | 44.07 | 88 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 15:37:33 | 47.90 | 44.40 | 216 | 1.14 | 0.29 | 11.8 |
| 5/3/2015 15:37:34 | 48.23 | 44.73 | 287 | 1.14 | 0.29 | 15.7 |
| 5/3/2015 15:37:36 | 48.56 | 45.06 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 15:37:39 | 48.88 | 45.38 | 110 | 1.14 | 0.29 | 6.0 |
| 5/3/2015 15:37:44 | 49.21 | 45.71 | 81 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 15:37:50 | 49.54 | 46.04 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 15:37:57 | 49.87 | 46.37 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 15:38:04 | 50.20 | 46.70 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 15:38:12 | 50.53 | 47.03 | 47 | 1.14 | 0.29 | 2.6 |
| 5/3/2015 15:38:18 | 50.85 | 47.35 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 15:38:24 | 51.18 | 47.68 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 15:38:29 | 51.47 | 47.97 | 58 | 1.14 | 0.29 | 3.2 |

## P39 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:35:52

**End Date:**
5/3/2015 15:40:09

**Operator Note:**
'3.5 3.7 c Auto Complete'

**Northing:**
349,098.10

**Easting:**
224,363.00

**Tide (feet):**
3.50



## Hole: P4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:32:51 | 32.48 | 30.18 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:52 | 32.81 | 30.51 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:52 | 33.14 | 30.84 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:53 | 33.46 | 31.16 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:32:53 | 33.79 | 31.49 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:32:53 | 34.12 | 31.82 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:54 | 34.45 | 32.15 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:54 | 34.78 | 32.48 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 5:32:54 | 35.11 | 32.81 | 1,205 | 0.54 | 0.17 | 65.9 |
| 5/3/2015 5:32:54 | 35.43 | 33.13 | 1,209 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 5:32:55 | 35.76 | 33.46 | 1,217 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 5:32:55 | 36.09 | 33.79 | 1,217 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 5:32:55 | 36.42 | 34.12 | 1,206 | 0.54 | 0.17 | 66.0 |
| 5/3/2015 5:32:56 | 36.75 | 34.45 | 1,206 | 0.54 | 0.17 | 66.0 |
| 5/3/2015 5:32:56 | 37.07 | 34.77 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 5:32:56 | 37.40 | 35.10 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 5:32:56 | 37.73 | 35.43 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/3/2015 5:32:57 | 38.06 | 35.76 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:57 | 38.39 | 36.09 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:57 | 38.71 | 36.41 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:58 | 39.04 | 36.74 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:58 | 39.37 | 37.07 | 1,221 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:32:58 | 39.70 | 37.40 | 1,221 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 5:32:58 | 40.03 | 37.73 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 5:32:59 | 40.35 | 38.05 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 5:33:54 | 40.68 | 38.38 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:33:55 | 41.01 | 38.71 | 83 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 5:34:06 | 41.34 | 39.04 | 65 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 5:34:16 | 41.67 | 39.37 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:34:29 | 41.99 | 39.69 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:34:48 | 42.32 | 40.02 | 1 | 0.54 | 0.17 | 0.1 |
| 5/3/2015 5:34:58 | 42.65 | 40.35 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:35:15 | 42.98 | 40.68 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:35:27 | 43.31 | 41.01 | 12 | 0.54 | 0.17 | 0.6 |
| 5/3/2015 5:35:30 | 43.64 | 41.34 | 131 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 5:35:33 | 43.96 | 41.66 | 17 | 0.54 | 0.17 | 0.9 |
| 5/3/2015 5:35:35 | 44.29 | 41.99 | 199 | 0.54 | 0.17 | 10.9 |
| 5/3/2015 5:35:42 | 44.62 | 42.32 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 5:35:44 | 44.95 | 42.65 | 133 | 0.54 | 0.17 | 7.3 |
| 5/3/2015 5:36:22 | 45.28 | 42.98 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:36:42 | 45.60 | 43.30 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 5:36:44 | 45.93 | 43.63 | 95 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 5:36:47 | 46.26 | 43.96 | 85 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 5:36:49 | 46.59 | 44.29 | 160 | 0.54 | 0.17 | 8.8 |
| 5/3/2015 5:36:50 | 46.92 | 44.62 | 260 | 0.54 | 0.17 | 14.2 |
| 5/3/2015 5:36:54 | 47.24 | 44.94 | 106 | 0.54 | 0.17 | 5.8 |
| 5/3/2015 5:36:55 | 47.57 | 45.27 | 239 | 0.54 | 0.17 | 13.1 |
| 5/3/2015 5:36:59 | 47.90 | 45.60 | 97 | 0.54 | 0.17 | 5.3 |
| 5/3/2015 5:37:35 | 48.23 | 45.93 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 5:37:39 | 48.56 | 46.26 | 125 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 5:37:39 | 48.88 | 46.58 | 193 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 5:37:40 | 49.21 | 46.91 | 193 | 0.54 | 0.17 | 10.6 |
| 5/3/2015 5:38:15 | 49.54 | 47.24 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:38:16 | 49.87 | 47.57 | 126 | 0.54 | 0.17 | 6.9 |
| 5/3/2015 5:38:17 | 50.20 | 47.90 | 264 | 0.54 | 0.17 | 14.4 |
| 5/3/2015 5:38:18 | 50.53 | 48.23 | 250 | 0.54 | 0.17 | 13.7 |
| 5/3/2015 5:38:21 | 50.85 | 48.55 | 89 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 5:38:21 | 51.18 | 48.88 | 97 | 0.54 | 0.17 | 5.3 |
| 5/3/2015 5:38:22 | 51.51 | 49.21 | 206 | 0.54 | 0.17 | 11.3 |
| 5/3/2015 5:39:44 | 51.84 | 49.54 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 5:39:46 | 52.17 | 49.87 | 174 | 0.54 | 0.17 | 9.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 5:39:48 | 52.49 | 50.19 | 153 | 0.54 | 0.17 | 8.3 |
| 5/3/2015 | 5:39:51 | 52.82 | 50.52 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 | 5:39:53 | 53.15 | 50.85 | 111 | 0.54 | 0.17 | 6.1 |
| 5/3/2015 | 5:39:55 | 53.48 | 51.18 | 195 | 0.54 | 0.17 | 10.7 |
| 5/3/2015 | 5:39:58 | 53.81 | 51.51 | 134 | 0.54 | 0.17 | 7.3 |
| 5/3/2015 | 5:40:02 | 54.13 | 51.83 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 5:40:29 | 54.46 | 52.16 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 5:40:36 | 54.79 | 52.49 | 85 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 5:40:38 | 55.12 | 52.82 | 142 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 | 5:40:43 | 55.45 | 53.15 | 111 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 | 5:41:09 | 55.77 | 53.47 | 14 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 | 5:41:24 | 56.10 | 53.80 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 | 5:41:40 | 56.43 | 54.13 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 | 5:42:26 | 56.76 | 54.46 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 5:42:31 | 57.09 | 54.79 | 78 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 5:42:34 | 57.36 | 55.06 | 82 | 0.54 | 0.17 | 4.5 |

## P4 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:30:27

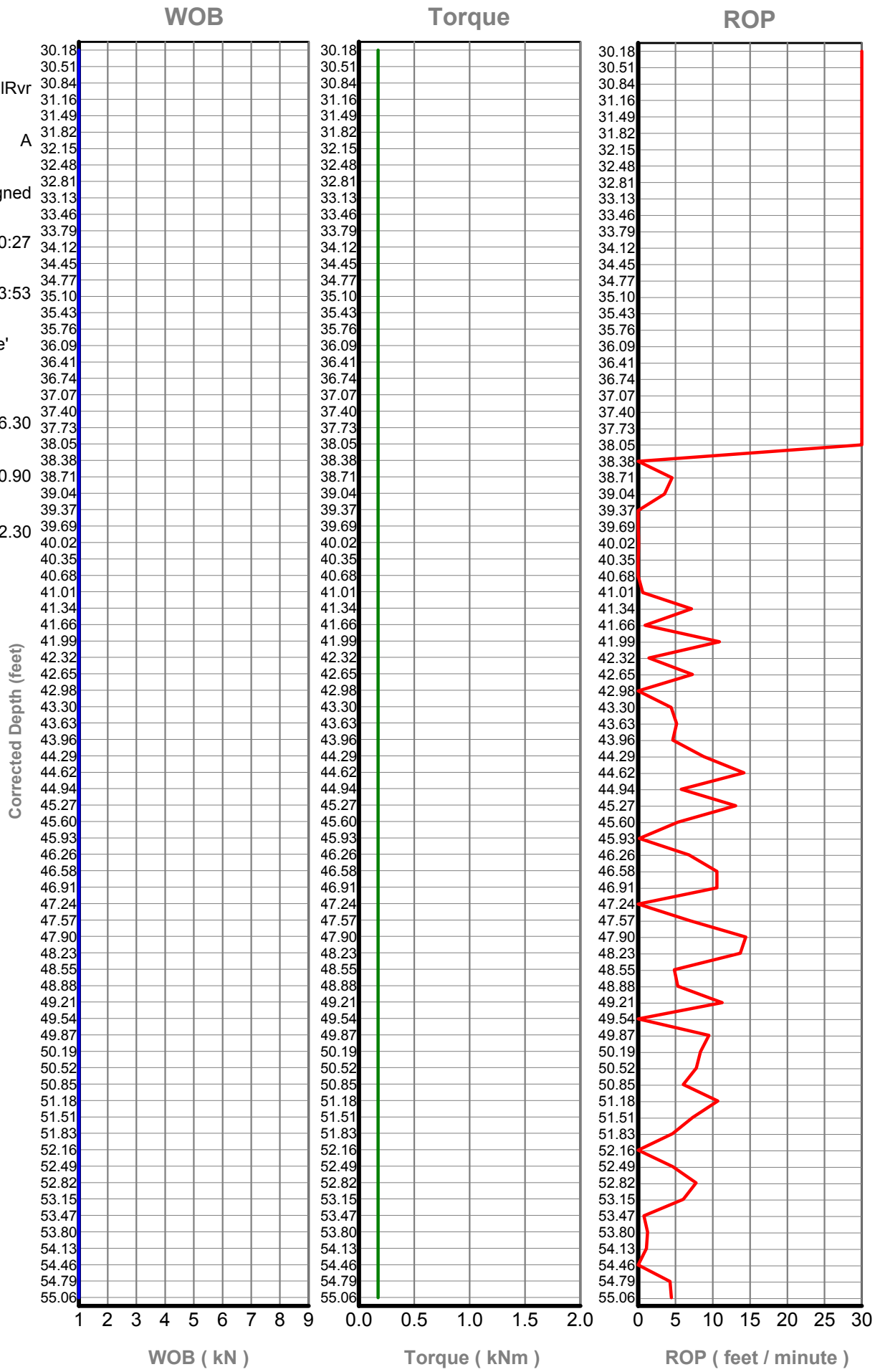
**End Date:**
5/3/2015 5:43:53

**Operator Note:**
'2.3 2.3 a Auto Complete'

**Northing:**
349,376.30

**Easting:**
224,530.90

**Tide (feet):**
2.30



## Hole: P40 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:00:15 | 34.12 | 30.02 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:15 | 34.45 | 30.35 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:00:16 | 34.78 | 30.68 | 923 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:00:16 | 35.11 | 31.01 | 923 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:00:16 | 35.43 | 31.33 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:00:17 | 35.76 | 31.66 | 923 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:17 | 36.09 | 31.99 | 929 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 15:00:18 | 36.42 | 32.32 | 929 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 15:00:18 | 36.75 | 32.65 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:00:18 | 37.07 | 32.97 | 926 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:00:19 | 37.40 | 33.30 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:19 | 37.73 | 33.63 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:19 | 38.06 | 33.96 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 15:00:20 | 38.39 | 34.29 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 15:00:20 | 38.71 | 34.61 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 15:00:21 | 39.04 | 34.94 | 914 | 0.54 | 0.17 | 50.0 |
| 5/3/2015 15:00:21 | 39.37 | 35.27 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:21 | 39.70 | 35.60 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:22 | 40.03 | 35.93 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:22 | 40.35 | 36.25 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:22 | 40.68 | 36.58 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:23 | 41.01 | 36.91 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:00:23 | 41.34 | 37.24 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:24 | 41.67 | 37.57 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:24 | 41.99 | 37.89 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:00:24 | 42.32 | 38.22 | 919 | 0.54 | 0.17 | 50.2 |
| 5/3/2015 15:00:25 | 42.65 | 38.55 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:26 | 42.98 | 38.88 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:25 | 43.31 | 39.21 | 911 | 0.54 | 0.17 | 49.8 |
| 5/3/2015 15:00:26 | 43.64 | 39.54 | 919 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:00:27 | 43.96 | 39.86 | 921 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:27 | 44.29 | 40.19 | 921 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:00:27 | 44.62 | 40.52 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:00:28 | 44.95 | 40.85 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:00:28 | 45.28 | 41.18 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:00:29 | 45.60 | 41.50 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:00:29 | 45.93 | 41.83 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:00:29 | 46.26 | 42.16 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:00:30 | 46.59 | 42.49 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:00:30 | 46.92 | 42.82 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:00:30 | 47.24 | 43.14 | 913 | 0.54 | 0.17 | 49.9 |
| 5/3/2015 15:00:31 | 47.57 | 43.47 | 889 | 0.54 | 0.17 | 48.6 |
| 5/3/2015 15:00:31 | 47.90 | 43.80 | 855 | 0.54 | 0.17 | 46.8 |
| 5/3/2015 15:00:32 | 48.23 | 44.13 | 810 | 0.54 | 0.17 | 44.3 |
| 5/3/2015 15:00:32 | 48.56 | 44.46 | 777 | 0.54 | 0.17 | 42.5 |
| 5/3/2015 15:00:33 | 48.88 | 44.78 | 734 | 0.54 | 0.17 | 40.1 |
| 5/3/2015 15:00:33 | 49.21 | 45.11 | 723 | 0.54 | 0.17 | 39.5 |
| 5/3/2015 15:00:34 | 49.54 | 45.44 | 710 | 0.54 | 0.17 | 38.8 |
| 5/3/2015 15:00:47 | 49.87 | 45.77 | 43 | 0.54 | 0.17 | 2.4 |
| 5/3/2015 15:00:49 | 50.20 | 46.10 | 247 | 0.54 | 0.17 | 13.5 |
| 5/3/2015 15:00:52 | 50.53 | 46.43 | 152 | 0.54 | 0.17 | 8.3 |
| 5/3/2015 15:00:54 | 50.85 | 46.75 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 15:00:57 | 51.18 | 47.08 | 117 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 15:01:00 | 51.51 | 47.41 | 120 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 15:01:03 | 51.84 | 47.74 | 116 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 15:01:06 | 52.17 | 48.07 | 136 | 0.54 | 0.17 | 7.4 |
| 5/3/2015 15:01:09 | 52.49 | 48.39 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 15:01:12 | 52.82 | 48.72 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 15:01:17 | 53.15 | 49.05 | 75 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 15:01:20 | 53.48 | 49.38 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 15:01:23 | 53.81 | 49.71 | 116 | 0.54 | 0.17 | 6.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:01:27 | 54.13 | 50.03 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 15:01:34 | 54.46 | 50.36 | 74 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 15:01:38 | 54.79 | 50.69 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 15:01:45 | 55.12 | 51.02 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 15:01:49 | 55.45 | 51.35 | 66 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 | 15:01:56 | 55.77 | 51.67 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 | 15:02:05 | 56.10 | 52.00 | 34 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 | 15:02:11 | 56.43 | 52.33 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 15:02:16 | 56.76 | 52.66 | 77 | 0.54 | 0.17 | 4.2 |
| 5/3/2015 | 15:02:20 | 57.09 | 52.99 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 | 15:02:25 | 57.41 | 53.31 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 15:02:29 | 57.74 | 53.64 | 78 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 15:02:36 | 58.07 | 53.97 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 15:02:42 | 58.40 | 54.30 | 58 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 | 15:02:47 | 58.73 | 54.63 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 | 15:02:52 | 59.06 | 54.96 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 15:02:55 | 59.38 | 55.28 | 98 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 | 15:02:56 | 59.48 | 55.38 | 95 | 0.54 | 0.17 | 5.2 |

## P40 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:58:44

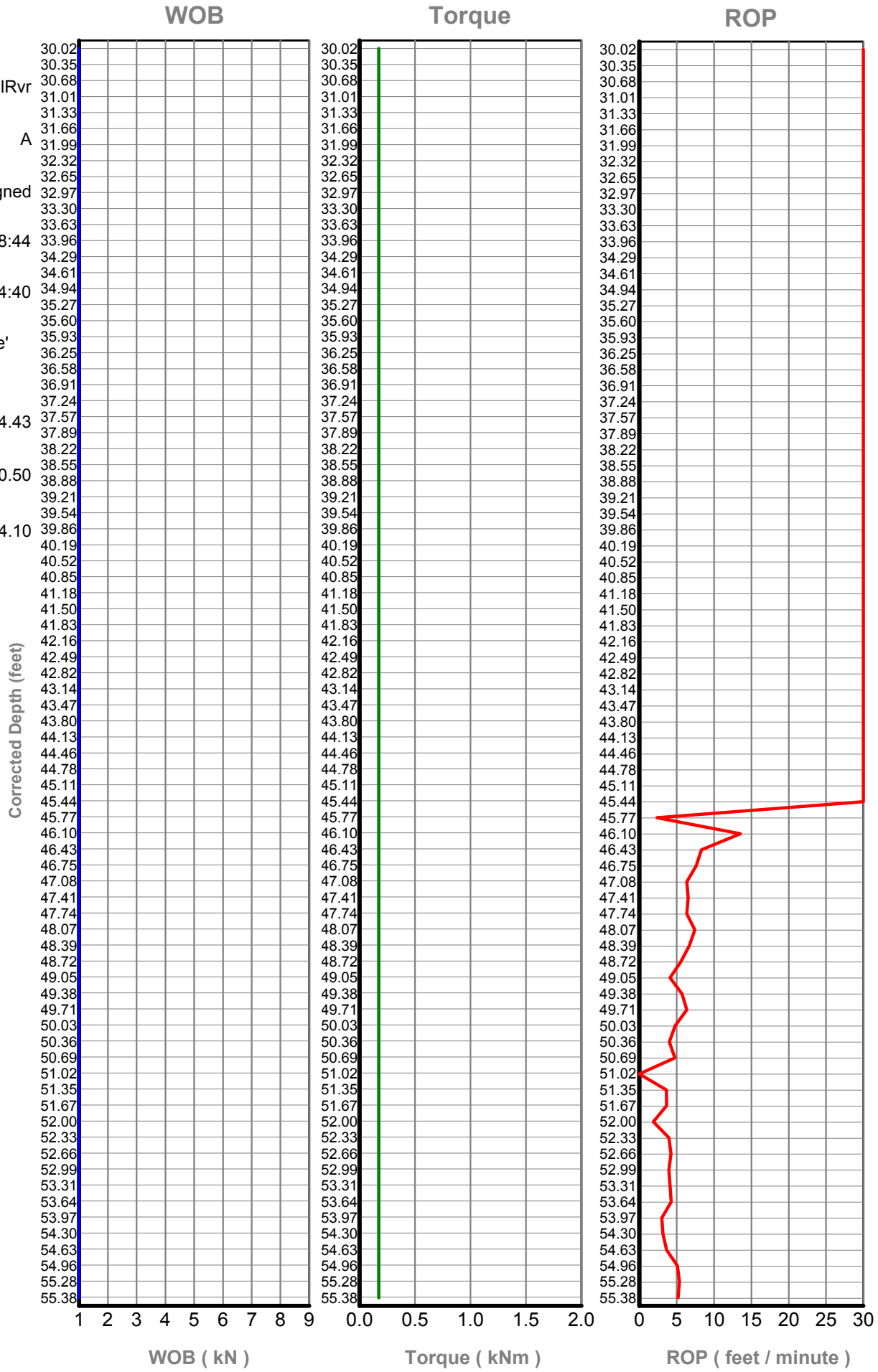
**End Date:**
5/3/2015 15:04:40

**Operator Note:**
'4.1 4.5 a Auto Complete'

**Northing:**
349,134.43

**Easting:**
224,420.50

**Tide (feet):**
4.10



## Hole: P41 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:01:43 | 34.12 | 30.02 | 1,336 | 0.25 | 0.39 | 73.0 |
| 5/3/2015 15:01:43 | 34.45 | 30.35 | 1,330 | 0.25 | 0.37 | 72.7 |
| 5/3/2015 15:01:44 | 34.78 | 30.68 | 1,330 | 0.25 | 0.37 | 72.7 |
| 5/3/2015 15:01:44 | 35.11 | 31.01 | 1,325 | 0.25 | 0.38 | 72.5 |
| 5/3/2015 15:01:44 | 35.43 | 31.33 | 1,325 | 0.25 | 0.38 | 72.5 |
| 5/3/2015 15:01:44 | 35.76 | 31.66 | 1,348 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:45 | 36.09 | 31.99 | 1,348 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:45 | 36.42 | 32.32 | 1,339 | 0.25 | 0.39 | 73.2 |
| 5/3/2015 15:01:45 | 36.75 | 32.65 | 1,339 | 0.25 | 0.39 | 73.2 |
| 5/3/2015 15:01:45 | 37.07 | 32.97 | 1,342 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 15:01:46 | 37.40 | 33.30 | 1,342 | 0.26 | 0.37 | 73.4 |
| 5/3/2015 15:01:46 | 37.73 | 33.63 | 1,345 | 0.25 | 0.40 | 73.6 |
| 5/3/2015 15:01:46 | 38.06 | 33.96 | 1,345 | 0.25 | 0.40 | 73.6 |
| 5/3/2015 15:01:46 | 38.39 | 34.29 | 1,364 | 0.32 | 0.36 | 74.6 |
| 5/3/2015 15:01:47 | 38.71 | 34.61 | 1,364 | 0.32 | 0.36 | 74.6 |
| 5/3/2015 15:01:47 | 39.04 | 34.94 | 1,347 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:47 | 39.37 | 35.27 | 1,347 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:47 | 39.70 | 35.60 | 1,353 | 0.25 | 0.39 | 74.0 |
| 5/3/2015 15:01:48 | 40.03 | 35.93 | 1,353 | 0.25 | 0.39 | 74.0 |
| 5/3/2015 15:01:48 | 40.35 | 36.25 | 1,347 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:48 | 40.68 | 36.58 | 1,347 | 0.25 | 0.38 | 73.7 |
| 5/3/2015 15:01:48 | 41.01 | 36.91 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 15:01:49 | 41.34 | 37.24 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 15:01:49 | 41.67 | 37.57 | 1,350 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 15:01:49 | 41.99 | 37.89 | 1,350 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 15:01:49 | 42.32 | 38.22 | 1,344 | 0.26 | 0.39 | 73.5 |
| 5/3/2015 15:01:50 | 42.65 | 38.55 | 1,344 | 0.26 | 0.39 | 73.5 |
| 5/3/2015 15:01:50 | 42.98 | 38.88 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 15:01:50 | 43.31 | 39.21 | 1,333 | 0.26 | 0.37 | 72.9 |
| 5/3/2015 15:01:50 | 43.64 | 39.54 | 1,347 | 0.26 | 0.39 | 73.7 |
| 5/3/2015 15:01:51 | 43.96 | 39.86 | 1,347 | 0.26 | 0.39 | 73.7 |
| 5/3/2015 15:01:51 | 44.29 | 40.19 | 1,347 | 0.25 | 0.37 | 73.6 |
| 5/3/2015 15:01:51 | 44.62 | 40.52 | 1,347 | 0.25 | 0.37 | 73.6 |
| 5/3/2015 15:01:51 | 44.95 | 40.85 | 1,341 | 0.26 | 0.39 | 73.4 |
| 5/3/2015 15:01:52 | 45.28 | 41.18 | 1,344 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 15:01:53 | 45.60 | 41.50 | 1,344 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 15:01:53 | 45.93 | 41.83 | 1,358 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 15:01:53 | 46.26 | 42.16 | 1,358 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 15:01:53 | 46.59 | 42.49 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 15:01:54 | 46.92 | 42.82 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 15:01:53 | 47.24 | 43.14 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 15:01:54 | 47.57 | 43.47 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 15:01:54 | 47.90 | 43.80 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 15:01:54 | 48.23 | 44.13 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/3/2015 15:01:55 | 48.56 | 44.46 | 1,343 | 0.24 | 0.44 | 73.4 |
| 5/3/2015 15:02:01 | 48.88 | 44.78 | 6 | 2.76 | 0.48 | 0.3 |
| 5/3/2015 15:02:04 | 49.21 | 45.11 | 140 | 3.11 | 0.48 | 7.6 |
| 5/3/2015 15:02:08 | 49.54 | 45.44 | 100 | 3.26 | 0.48 | 5.5 |
| 5/3/2015 15:02:11 | 49.87 | 45.77 | 115 | 3.21 | 0.48 | 6.3 |
| 5/3/2015 15:02:14 | 50.20 | 46.10 | 124 | 3.45 | 0.48 | 6.8 |
| 5/3/2015 15:02:17 | 50.53 | 46.43 | 116 | 3.31 | 0.48 | 6.4 |
| 5/3/2015 15:02:18 | 50.85 | 46.75 | 159 | 2.81 | 0.46 | 8.7 |
| 5/3/2015 15:02:20 | 51.18 | 47.08 | 207 | 2.99 | 0.48 | 11.3 |
| 5/3/2015 15:02:28 | 51.51 | 47.41 | 74 | 2.52 | 0.47 | 4.1 |
| 5/3/2015 15:02:32 | 51.84 | 47.74 | 89 | 2.82 | 0.48 | 4.9 |
| 5/3/2015 15:02:37 | 52.17 | 48.07 | 61 | 2.90 | 0.48 | 3.3 |
| 5/3/2015 15:02:42 | 52.49 | 48.39 | 71 | 2.83 | 0.48 | 3.9 |
| 5/3/2015 15:02:47 | 52.82 | 48.72 | 66 | 2.71 | 0.48 | 3.6 |
| 5/3/2015 15:02:51 | 53.15 | 49.05 | 95 | 2.71 | 0.48 | 5.2 |
| 5/3/2015 15:02:53 | 53.48 | 49.38 | 159 | 2.80 | 0.48 | 8.7 |
| 5/3/2015 15:02:57 | 53.81 | 49.71 | 77 | 2.88 | 0.49 | 4.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:03:04 | 54.13 | 50.03 | 46 | 2.78 | 0.48 | 2.5 |
| 5/3/2015 | 15:03:12 | 54.46 | 50.36 | 43 | 3.03 | 0.49 | 2.4 |
| 5/3/2015 | 15:03:19 | 54.79 | 50.69 | 66 | 2.85 | 0.48 | 3.6 |
| 5/3/2015 | 15:03:21 | 55.12 | 51.02 | 119 | 3.07 | 0.47 | 6.5 |
| 5/3/2015 | 15:03:27 | 55.45 | 51.35 | 119 | 3.07 | 0.47 | 6.5 |
| 5/3/2015 | 15:03:29 | 55.77 | 51.67 | 161 | 2.50 | 0.47 | 8.8 |
| 5/3/2015 | 15:03:33 | 56.10 | 52.00 | 93 | 3.63 | 0.48 | 5.1 |
| 5/3/2015 | 15:03:39 | 56.43 | 52.33 | 55 | 3.07 | 0.49 | 3.0 |
| 5/3/2015 | 15:03:45 | 56.76 | 52.66 | 67 | 3.35 | 0.49 | 3.7 |
| 5/3/2015 | 15:03:50 | 57.09 | 52.99 | 81 | 3.58 | 0.47 | 4.4 |
| 5/3/2015 | 15:03:54 | 57.41 | 53.31 | 90 | 3.48 | 0.47 | 4.9 |
| 5/3/2015 | 15:03:59 | 57.74 | 53.64 | 75 | 3.90 | 0.52 | 4.1 |
| 5/3/2015 | 15:04:06 | 58.07 | 53.97 | 46 | 3.87 | 0.48 | 2.5 |
| 5/3/2015 | 15:04:12 | 58.40 | 54.30 | 64 | 3.62 | 0.48 | 3.5 |
| 5/3/2015 | 15:04:18 | 58.73 | 54.63 | 57 | 2.95 | 0.48 | 3.1 |
| 5/3/2015 | 15:04:23 | 59.03 | 54.93 | 70 | 2.88 | 0.48 | 3.8 |

## P41 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:00:17

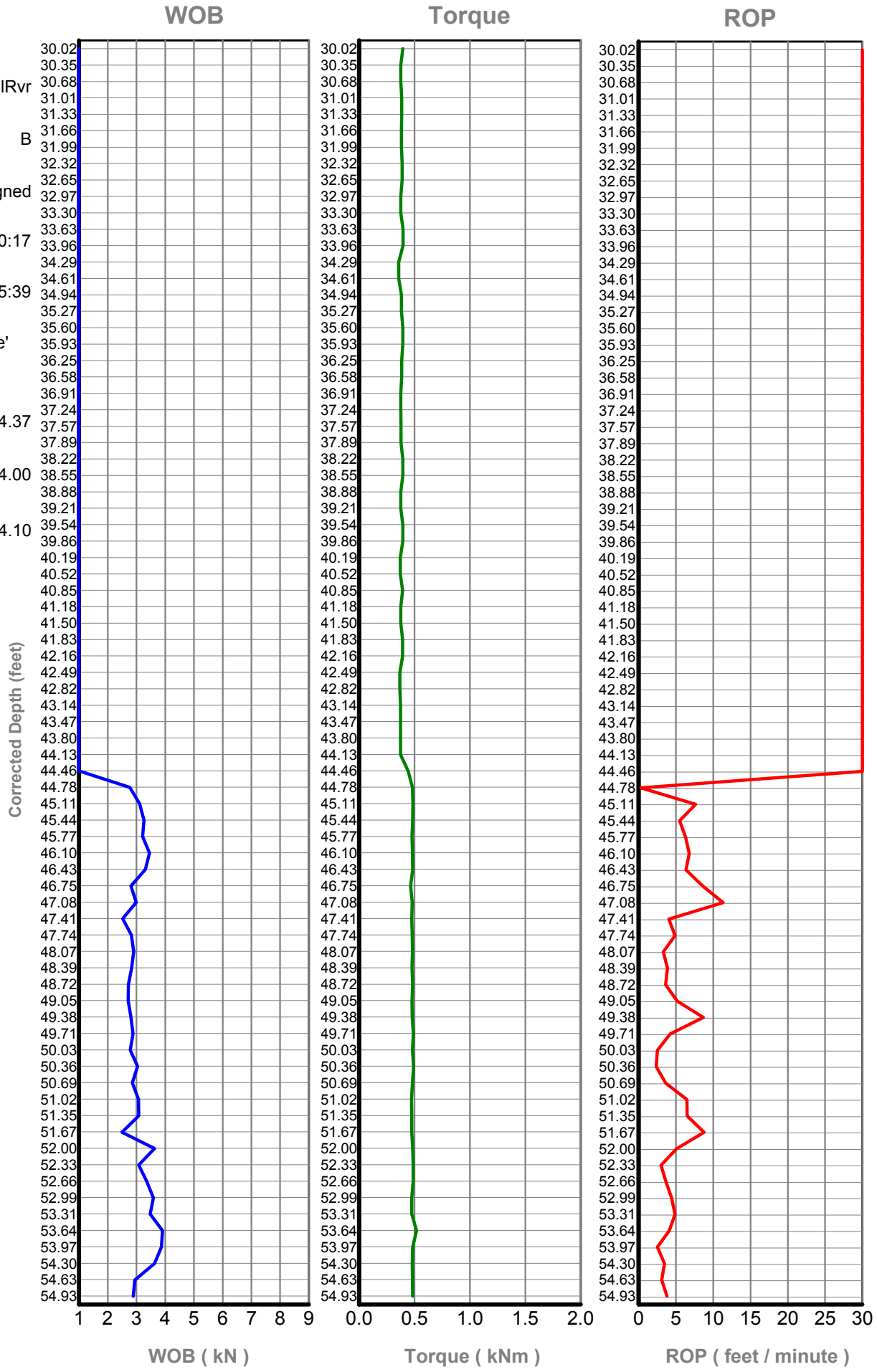
**End Date:**
5/3/2015 15:05:39

**Operator Note:**
'4.1 4.5 b Auto Complete'

**Northing:**
349,174.37

**Easting:**
224,484.00

**Tide (feet):**
4.10



## Hole: P42 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:01:56 | 34.12 | 30.02 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:01:57 | 34.45 | 30.35 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:01:57 | 34.78 | 30.68 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:01:57 | 35.11 | 31.01 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:01:58 | 35.43 | 31.33 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:01:58 | 35.76 | 31.66 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:01:58 | 36.09 | 31.99 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 15:01:58 | 36.42 | 32.32 | 1,177 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:01:59 | 36.75 | 32.65 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:01:59 | 37.07 | 32.97 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:01:59 | 37.40 | 33.30 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 15:02:00 | 37.73 | 33.63 | 1,190 | 1.14 | 0.29 | 65.1 |
| 5/3/2015 15:02:00 | 38.06 | 33.96 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:02:00 | 38.39 | 34.29 | 1,199 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 15:02:01 | 38.71 | 34.61 | 1,199 | 1.14 | 0.29 | 65.6 |
| 5/3/2015 15:02:01 | 39.04 | 34.94 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:02:01 | 39.37 | 35.27 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:02:01 | 39.70 | 35.60 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:02:02 | 40.03 | 35.93 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:02:02 | 40.35 | 36.25 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:02:02 | 40.68 | 36.58 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:03 | 41.01 | 36.91 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:03 | 41.34 | 37.24 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:03 | 41.67 | 37.57 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:03 | 41.99 | 37.89 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 15:02:04 | 42.32 | 38.22 | 1,138 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:04 | 42.65 | 38.55 | 1,138 | 1.14 | 0.29 | 62.3 |
| 5/3/2015 15:02:05 | 42.98 | 38.88 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:05 | 43.31 | 39.21 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:05 | 43.64 | 39.54 | 1,138 | 1.14 | 0.29 | 62.2 |
| 5/3/2015 15:02:06 | 43.96 | 39.86 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:06 | 44.29 | 40.19 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:06 | 44.62 | 40.52 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:07 | 44.95 | 40.85 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:07 | 45.28 | 41.18 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:02:07 | 45.60 | 41.50 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:02:08 | 45.93 | 41.83 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:02:08 | 46.26 | 42.16 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:02:08 | 46.59 | 42.49 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:02:08 | 46.92 | 42.82 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 15:02:09 | 47.24 | 43.14 | 1,162 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 15:02:31 | 47.57 | 43.47 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 15:02:53 | 47.90 | 43.80 | 57 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 15:02:55 | 48.23 | 44.13 | 194 | 1.14 | 0.29 | 10.6 |
| 5/3/2015 15:02:58 | 48.56 | 44.46 | 124 | 1.14 | 0.29 | 6.8 |
| 5/3/2015 15:03:26 | 48.88 | 44.78 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 15:03:29 | 49.21 | 45.11 | 110 | 1.14 | 0.29 | 6.0 |
| 5/3/2015 15:03:32 | 49.54 | 45.44 | 148 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 15:03:35 | 49.87 | 45.77 | 93 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 15:03:42 | 50.20 | 46.10 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 15:03:50 | 50.53 | 46.43 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 15:03:56 | 50.85 | 46.75 | 58 | 1.14 | 0.29 | 3.2 |
| 5/3/2015 15:04:01 | 51.18 | 47.08 | 67 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 15:04:08 | 51.51 | 47.41 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 15:04:13 | 51.84 | 47.74 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 15:04:18 | 52.17 | 48.07 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 15:04:20 | 52.33 | 48.23 | 70 | 1.14 | 0.29 | 3.8 |

## P42 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:00:53

**End Date:**
5/3/2015 15:06:07

**Operator Note:**
'4.1 4.6 c Auto Complete'

**Northing:**
349,214.30

**Easting:**
224,547.50

**Tide (feet):**
4.10



## Hole: P43 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:11:37 | 32.15 | 30.25 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 6:11:37 | 32.48 | 30.58 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 6:11:38 | 32.81 | 30.91 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 6:11:38 | 33.14 | 31.24 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 6:11:38 | 33.46 | 31.56 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/3/2015 6:11:39 | 33.79 | 31.89 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/3/2015 6:11:39 | 34.12 | 32.22 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 6:11:39 | 34.45 | 32.55 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/3/2015 6:11:39 | 34.78 | 32.88 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 6:11:40 | 35.11 | 33.21 | 1,352 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 6:11:40 | 35.43 | 33.53 | 1,349 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 6:11:40 | 35.76 | 33.86 | 1,349 | 0.54 | 0.17 | 73.7 |
| 5/3/2015 6:11:40 | 36.09 | 34.19 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 6:11:41 | 36.42 | 34.52 | 1,357 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 6:11:41 | 36.75 | 34.85 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 6:11:41 | 37.07 | 35.17 | 1,361 | 0.54 | 0.17 | 74.4 |
| 5/3/2015 6:11:42 | 37.40 | 35.50 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 6:11:42 | 37.73 | 35.83 | 994 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 6:11:43 | 38.06 | 36.16 | 994 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 6:11:43 | 38.39 | 36.49 | 987 | 0.54 | 0.17 | 54.0 |
| 5/3/2015 6:11:43 | 38.71 | 36.81 | 987 | 0.54 | 0.17 | 54.0 |
| 5/3/2015 6:11:43 | 39.04 | 37.14 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 6:11:44 | 39.37 | 37.47 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 6:11:44 | 39.70 | 37.80 | 988 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 6:11:44 | 40.03 | 38.13 | 988 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 6:11:44 | 40.35 | 38.45 | 988 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 6:11:45 | 40.68 | 38.78 | 988 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 6:11:45 | 41.01 | 39.11 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/3/2015 6:11:45 | 41.34 | 39.44 | 1,220 | 0.54 | 0.17 | 66.7 |
| 5/3/2015 6:11:45 | 41.67 | 39.77 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 6:11:46 | 41.99 | 40.09 | 1,318 | 0.54 | 0.17 | 72.1 |
| 5/3/2015 6:11:46 | 42.32 | 40.42 | 1,291 | 0.54 | 0.17 | 70.6 |
| 5/3/2015 6:12:07 | 42.65 | 40.75 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 6:12:07 | 42.98 | 41.08 | 124 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 6:12:08 | 43.31 | 41.41 | 124 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 6:12:08 | 43.64 | 41.74 | 379 | 0.54 | 0.17 | 20.7 |
| 5/3/2015 6:12:08 | 43.96 | 42.06 | 379 | 0.54 | 0.17 | 20.7 |
| 5/3/2015 6:12:08 | 44.29 | 42.39 | 567 | 0.54 | 0.17 | 31.0 |
| 5/3/2015 6:12:09 | 44.62 | 42.72 | 770 | 0.54 | 0.17 | 42.1 |
| 5/3/2015 6:12:09 | 44.95 | 43.05 | 770 | 0.54 | 0.17 | 42.1 |
| 5/3/2015 6:12:09 | 45.28 | 43.38 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 6:12:10 | 45.60 | 43.70 | 866 | 0.54 | 0.17 | 47.3 |
| 5/3/2015 6:12:34 | 45.93 | 44.03 | 67 | 0.54 | 0.17 | 3.6 |
| 5/3/2015 6:12:36 | 46.26 | 44.36 | 166 | 0.54 | 0.17 | 9.1 |
| 5/3/2015 6:12:40 | 46.59 | 44.69 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 6:12:44 | 46.92 | 45.02 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 6:12:48 | 47.24 | 45.34 | 95 | 0.54 | 0.17 | 5.2 |
| 5/3/2015 6:12:52 | 47.57 | 45.67 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 6:12:58 | 47.90 | 46.00 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 6:13:03 | 48.23 | 46.33 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 6:13:05 | 48.56 | 46.66 | 160 | 0.54 | 0.17 | 8.8 |
| 5/3/2015 6:13:07 | 48.88 | 46.98 | 151 | 0.54 | 0.17 | 8.3 |
| 5/3/2015 6:13:09 | 49.21 | 47.31 | 137 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 6:13:13 | 49.54 | 47.64 | 113 | 0.54 | 0.17 | 6.2 |
| 5/3/2015 6:13:18 | 49.87 | 47.97 | 68 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 6:13:22 | 50.20 | 48.30 | 81 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 6:13:27 | 50.53 | 48.63 | 80 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 6:13:32 | 50.85 | 48.95 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 6:13:35 | 51.18 | 49.28 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 6:13:40 | 51.51 | 49.61 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 6:13:44 | 51.84 | 49.94 | 81 | 0.54 | 0.17 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 6:13:49 | 52.17 | 50.27 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 6:13:53 | 52.49 | 50.59 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 6:13:58 | 52.82 | 50.92 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 6:14:02 | 53.15 | 51.25 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 6:14:07 | 53.48 | 51.58 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 6:14:12 | 53.81 | 51.91 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 6:14:16 | 54.13 | 52.23 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 6:14:22 | 54.46 | 52.56 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 6:14:31 | 54.79 | 52.89 | 37 | 0.54 | 0.17 | 2.0 |
| 5/3/2015 | 6:14:41 | 55.12 | 53.22 | 47 | 0.54 | 0.17 | 2.6 |
| 5/3/2015 | 6:14:45 | 55.45 | 53.55 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 6:14:52 | 55.77 | 53.87 | 41 | 0.54 | 0.17 | 2.2 |
| 5/3/2015 | 6:14:57 | 56.10 | 54.20 | 82 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 | 6:15:04 | 56.43 | 54.53 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 6:15:08 | 56.76 | 54.86 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 6:15:12 | 57.09 | 55.19 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 6:15:14 | 57.19 | 55.29 | 61 | 0.54 | 0.17 | 3.3 |

## P43 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:01:09

**End Date:**
5/3/2015 6:18:16

**Operator Note:**
'1.9 1.9 a Auto Complete'

**Northing:**
349,259.60

**Easting:**
224,614.10

**Tide (feet):**
1.90



## Hole: P44 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:11:14 | 31.82 | 30.02 | 1,113 | 0.33 | 0.40 | 60.9 |
| 5/3/2015 6:11:14 | 32.15 | 30.35 | 1,113 | 0.33 | 0.39 | 60.9 |
| 5/3/2015 6:11:14 | 32.48 | 30.68 | 1,109 | 0.33 | 0.40 | 60.7 |
| 5/3/2015 6:11:15 | 32.81 | 31.01 | 1,109 | 0.33 | 0.40 | 60.7 |
| 5/3/2015 6:11:15 | 33.14 | 31.34 | 1,119 | 0.33 | 0.39 | 61.2 |
| 5/3/2015 6:11:15 | 33.46 | 31.66 | 1,113 | 0.33 | 0.40 | 60.9 |
| 5/3/2015 6:11:16 | 33.79 | 31.99 | 1,113 | 0.33 | 0.40 | 60.9 |
| 5/3/2015 6:11:16 | 34.12 | 32.32 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:16 | 34.45 | 32.65 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:16 | 34.78 | 32.98 | 1,119 | 0.33 | 0.39 | 61.2 |
| 5/3/2015 6:11:17 | 35.11 | 33.31 | 1,119 | 0.33 | 0.40 | 61.2 |
| 5/3/2015 6:11:17 | 35.43 | 33.63 | 1,119 | 0.33 | 0.40 | 61.2 |
| 5/3/2015 6:11:17 | 35.76 | 33.96 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:18 | 36.09 | 34.29 | 1,116 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:18 | 36.42 | 34.62 | 1,119 | 0.33 | 0.39 | 61.2 |
| 5/3/2015 6:11:18 | 36.75 | 34.95 | 1,115 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:19 | 37.07 | 35.27 | 1,115 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:19 | 37.40 | 35.60 | 1,125 | 0.33 | 0.40 | 61.5 |
| 5/3/2015 6:11:19 | 37.73 | 35.93 | 1,122 | 0.33 | 0.40 | 61.3 |
| 5/3/2015 6:11:20 | 38.06 | 36.26 | 1,122 | 0.33 | 0.40 | 61.3 |
| 5/3/2015 6:11:20 | 38.39 | 36.59 | 1,125 | 0.33 | 0.39 | 61.5 |
| 5/3/2015 6:11:20 | 38.71 | 36.91 | 1,125 | 0.33 | 0.39 | 61.5 |
| 5/3/2015 6:11:20 | 39.04 | 37.24 | 1,115 | 0.33 | 0.39 | 61.0 |
| 5/3/2015 6:11:21 | 39.37 | 37.57 | 1,129 | 0.33 | 0.39 | 61.7 |
| 5/3/2015 6:11:21 | 39.70 | 37.90 | 1,129 | 0.33 | 0.39 | 61.7 |
| 5/3/2015 6:11:21 | 40.03 | 38.23 | 1,126 | 0.33 | 0.39 | 61.6 |
| 5/3/2015 6:11:22 | 40.35 | 38.55 | 1,126 | 0.33 | 0.39 | 61.6 |
| 5/3/2015 6:11:22 | 40.68 | 38.88 | 1,126 | 0.34 | 0.40 | 61.6 |
| 5/3/2015 6:11:22 | 41.01 | 39.21 | 1,120 | 0.33 | 0.39 | 61.2 |
| 5/3/2015 6:11:23 | 41.34 | 39.54 | 1,120 | 0.33 | 0.39 | 61.2 |
| 5/3/2015 6:11:23 | 41.67 | 39.87 | 1,141 | 0.33 | 0.40 | 62.4 |
| 5/3/2015 6:11:23 | 41.99 | 40.19 | 1,141 | 0.33 | 0.40 | 62.4 |
| 5/3/2015 6:11:23 | 42.32 | 40.52 | 1,127 | 0.33 | 0.39 | 61.7 |
| 5/3/2015 6:11:24 | 42.65 | 40.85 | 1,130 | 0.33 | 0.39 | 61.8 |
| 5/3/2015 6:11:25 | 42.98 | 41.18 | 1,130 | 0.33 | 0.39 | 61.8 |
| 5/3/2015 6:11:25 | 43.31 | 41.51 | 1,133 | 0.33 | 0.39 | 62.0 |
| 5/3/2015 6:11:25 | 43.64 | 41.84 | 1,133 | 0.33 | 0.39 | 62.0 |
| 5/3/2015 6:11:25 | 43.96 | 42.16 | 1,139 | 0.33 | 0.38 | 62.3 |
| 5/3/2015 6:11:26 | 44.29 | 42.49 | 1,136 | 0.33 | 0.39 | 62.1 |
| 5/3/2015 6:11:26 | 44.62 | 42.82 | 1,136 | 0.33 | 0.39 | 62.1 |
| 5/3/2015 6:11:26 | 44.95 | 43.15 | 1,136 | 0.33 | 0.39 | 62.1 |
| 5/3/2015 6:11:27 | 45.28 | 43.48 | 1,136 | 0.33 | 0.39 | 62.1 |
| 5/3/2015 6:11:27 | 45.60 | 43.80 | 1,123 | 0.32 | 0.39 | 61.4 |
| 5/3/2015 6:11:27 | 45.93 | 44.13 | 1,130 | 0.30 | 0.46 | 61.8 |
| 5/3/2015 6:11:33 | 46.26 | 44.46 | 60 | 4.18 | 0.47 | 3.3 |
| 5/3/2015 6:11:49 | 46.59 | 44.79 | 14 | 3.33 | 0.44 | 0.8 |
| 5/3/2015 6:11:51 | 46.92 | 45.12 | 147 | 4.40 | 0.47 | 8.1 |
| 5/3/2015 6:11:52 | 47.24 | 45.44 | 238 | 3.41 | 0.47 | 13.0 |
| 5/3/2015 6:11:54 | 47.57 | 45.77 | 224 | 3.57 | 0.47 | 12.3 |
| 5/3/2015 6:11:56 | 47.90 | 46.10 | 190 | 3.37 | 0.47 | 10.4 |
| 5/3/2015 6:11:58 | 48.23 | 46.43 | 167 | 3.33 | 0.48 | 9.1 |
| 5/3/2015 6:12:00 | 48.56 | 46.76 | 190 | 3.25 | 0.47 | 10.4 |
| 5/3/2015 6:12:02 | 48.88 | 47.08 | 200 | 3.04 | 0.47 | 10.9 |
| 5/3/2015 6:12:04 | 49.21 | 47.41 | 194 | 3.21 | 0.47 | 10.6 |
| 5/3/2015 6:12:05 | 49.54 | 47.74 | 188 | 3.06 | 0.47 | 10.3 |
| 5/3/2015 6:12:11 | 49.87 | 48.07 | 0 | 2.87 | 0.45 | 0.0 |
| 5/3/2015 6:12:17 | 50.20 | 48.40 | 0 | 3.31 | 0.47 | 0.0 |
| 5/3/2015 6:12:19 | 50.53 | 48.73 | 124 | 3.92 | 0.47 | 6.8 |
| 5/3/2015 6:12:22 | 50.85 | 49.05 | 58 | 3.53 | 0.46 | 3.2 |
| 5/3/2015 6:12:26 | 51.18 | 49.38 | 52 | 2.75 | 0.45 | 2.8 |
| 5/3/2015 6:12:27 | 51.51 | 49.71 | 120 | 2.51 | 0.44 | 6.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 6:12:28 | 51.84 | 50.04 | 314 | 3.17 | 0.47 | 17.2 |
| 5/3/2015 | 6:12:29 | 52.17 | 50.37 | 372 | 3.79 | 0.47 | 20.4 |
| 5/3/2015 | 6:12:38 | 52.49 | 50.69 | 91 | 4.24 | 0.47 | 5.0 |
| 5/3/2015 | 6:12:52 | 52.82 | 51.02 | 35 | 4.69 | 0.48 | 1.9 |
| 5/3/2015 | 6:13:42 | 53.15 | 51.35 | 95 | 3.60 | 0.47 | 5.2 |
| 5/3/2015 | 6:13:45 | 53.48 | 51.68 | 127 | 3.90 | 0.46 | 6.9 |
| 5/3/2015 | 6:13:48 | 53.81 | 52.01 | 124 | 3.45 | 0.48 | 6.8 |
| 5/3/2015 | 6:13:53 | 54.13 | 52.33 | 81 | 3.43 | 0.48 | 4.4 |
| 5/3/2015 | 6:13:59 | 54.46 | 52.66 | 61 | 3.34 | 0.47 | 3.3 |
| 5/3/2015 | 6:14:03 | 54.79 | 52.99 | 99 | 3.56 | 0.47 | 5.4 |
| 5/3/2015 | 6:14:08 | 55.12 | 53.32 | 75 | 3.39 | 0.48 | 4.1 |
| 5/3/2015 | 6:14:16 | 55.45 | 53.65 | 43 | 4.78 | 0.47 | 2.4 |
| 5/3/2015 | 6:14:21 | 55.77 | 53.97 | 40 | 2.91 | 0.48 | 2.2 |
| 5/3/2015 | 6:14:41 | 56.10 | 54.30 | 14 | 2.44 | 0.49 | 0.8 |
| 5/3/2015 | 6:14:46 | 56.18 | 54.38 | 17 | 2.42 | 0.48 | 0.9 |

## P44 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:09:47

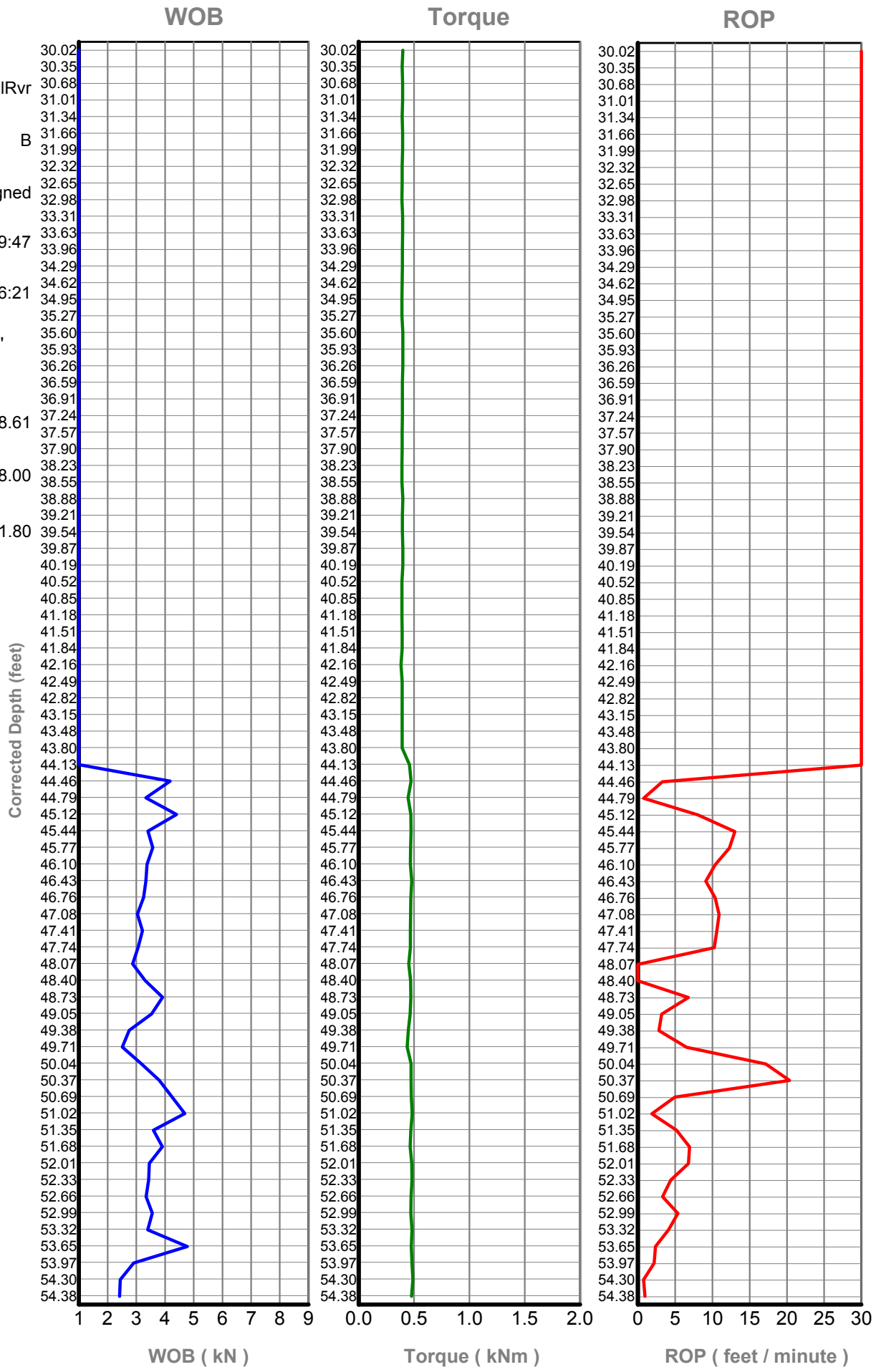
**End Date:**
5/3/2015 6:16:21

**Operator Note:**
'1.8 1.9b Auto Complete'

**Northing:**
349,298.61

**Easting:**
224,678.00

**Tide (feet):**
1.80



## Hole: P45 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:10:20 | 31.82 | 30.02 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 6:10:20 | 32.15 | 30.35 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:21 | 32.48 | 30.68 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:21 | 32.81 | 31.01 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:21 | 33.14 | 31.34 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:22 | 33.46 | 31.66 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:22 | 33.79 | 31.99 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:22 | 34.12 | 32.32 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 6:10:23 | 34.45 | 32.65 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 6:10:23 | 34.78 | 32.98 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 6:10:23 | 35.11 | 33.31 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:24 | 35.43 | 33.63 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:24 | 35.76 | 33.96 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 6:10:24 | 36.09 | 34.29 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:25 | 36.42 | 34.62 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:25 | 36.75 | 34.95 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:25 | 37.07 | 35.27 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 6:10:26 | 37.40 | 35.60 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 6:10:26 | 37.73 | 35.93 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 6:10:26 | 38.06 | 36.26 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 6:10:27 | 38.39 | 36.59 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 6:10:27 | 38.71 | 36.91 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 6:10:28 | 39.04 | 37.24 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 6:10:28 | 39.37 | 37.57 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 6:10:28 | 39.70 | 37.90 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 6:10:29 | 40.03 | 38.23 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 6:10:29 | 40.35 | 38.55 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:29 | 40.68 | 38.88 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:30 | 41.01 | 39.21 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/3/2015 6:10:30 | 41.34 | 39.54 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 6:10:30 | 41.67 | 39.87 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 6:10:31 | 41.99 | 40.19 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 6:10:31 | 42.32 | 40.52 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 6:10:31 | 42.65 | 40.85 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 6:10:32 | 42.98 | 41.18 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/3/2015 6:10:32 | 43.31 | 41.51 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:32 | 43.64 | 41.84 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:33 | 43.96 | 42.16 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:33 | 44.29 | 42.49 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:10:33 | 44.62 | 42.82 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 6:10:46 | 44.95 | 43.15 | 96 | 1.14 | 0.29 | 5.2 |
| 5/3/2015 6:10:47 | 45.28 | 43.48 | 246 | 1.14 | 0.29 | 13.5 |
| 5/3/2015 6:10:47 | 45.60 | 43.80 | 275 | 1.14 | 0.29 | 15.0 |
| 5/3/2015 6:10:48 | 45.93 | 44.13 | 344 | 1.14 | 0.29 | 18.8 |
| 5/3/2015 6:11:04 | 46.26 | 44.46 | 74 | 1.14 | 0.29 | 4.0 |
| 5/3/2015 6:11:07 | 46.59 | 44.79 | 114 | 1.14 | 0.29 | 6.2 |
| 5/3/2015 6:11:10 | 46.92 | 45.12 | 105 | 1.14 | 0.29 | 5.7 |
| 5/3/2015 6:11:13 | 47.24 | 45.44 | 121 | 1.14 | 0.29 | 6.6 |
| 5/3/2015 6:11:17 | 47.57 | 45.77 | 88 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 6:11:21 | 47.90 | 46.10 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 6:11:25 | 48.23 | 46.43 | 75 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 6:11:33 | 48.56 | 46.76 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 6:11:46 | 48.88 | 47.08 | 34 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 6:11:52 | 49.21 | 47.41 | 70 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 6:11:59 | 49.54 | 47.74 | 40 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 6:12:05 | 49.87 | 48.07 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 6:12:11 | 50.20 | 48.40 | 54 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 6:12:24 | 50.48 | 48.68 | 20 | 1.14 | 0.29 | 1.1 |

## P45 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:09:05

**End Date:**
5/3/2015 6:13:35

**Operator Note:**
'1.8 1.9 c Auto Complete'

**Northing:**
349,337.80

**Easting:**
224,742.00

**Tide (feet):**
1.80



## Hole: P46 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:34:01 | 34.45 | 30.25 | 1,222 | 0.54 | 0.17 | 66.8 |
| 5/3/2015 3:34:01 | 34.78 | 30.58 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/3/2015 3:34:02 | 35.11 | 30.91 | 1,230 | 0.54 | 0.17 | 67.3 |
| 5/3/2015 3:34:02 | 35.43 | 31.23 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:02 | 35.76 | 31.56 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:02 | 36.09 | 31.89 | 1,215 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:03 | 36.42 | 32.22 | 1,215 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:03 | 36.75 | 32.55 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:03 | 37.07 | 32.87 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:04 | 37.40 | 33.20 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:04 | 37.73 | 33.53 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:04 | 38.06 | 33.86 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:04 | 38.39 | 34.19 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 3:34:05 | 38.71 | 34.51 | 1,219 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 3:34:05 | 39.04 | 34.84 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:05 | 39.37 | 35.17 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:06 | 39.70 | 35.50 | 1,216 | 0.54 | 0.17 | 66.5 |
| 5/3/2015 3:34:06 | 40.03 | 35.83 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 3:34:06 | 40.35 | 36.15 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 3:34:06 | 40.68 | 36.48 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:07 | 41.01 | 36.81 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:07 | 41.34 | 37.14 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 3:34:07 | 41.67 | 37.47 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:08 | 41.99 | 37.79 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:08 | 42.32 | 38.12 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 3:34:08 | 42.65 | 38.45 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 3:34:08 | 42.98 | 38.78 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 3:34:09 | 43.31 | 39.11 | 1,198 | 0.54 | 0.17 | 65.5 |
| 5/3/2015 3:34:09 | 43.64 | 39.44 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 3:34:09 | 43.96 | 39.76 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:10 | 44.29 | 40.09 | 1,208 | 0.54 | 0.17 | 66.1 |
| 5/3/2015 3:34:10 | 44.62 | 40.42 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 3:34:11 | 44.95 | 40.75 | 1,204 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 3:34:11 | 45.28 | 41.08 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 3:34:11 | 45.60 | 41.40 | 1,211 | 0.54 | 0.17 | 66.2 |
| 5/3/2015 3:34:11 | 45.93 | 41.73 | 1,218 | 0.54 | 0.17 | 66.6 |
| 5/3/2015 3:34:12 | 46.26 | 42.06 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 3:34:12 | 46.59 | 42.39 | 1,212 | 0.54 | 0.17 | 66.3 |
| 5/3/2015 3:36:25 | 46.92 | 42.72 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 3:36:43 | 47.24 | 43.04 | 21 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 3:37:03 | 47.57 | 43.37 | 14 | 0.54 | 0.17 | 0.8 |
| 5/3/2015 3:37:19 | 47.85 | 43.65 | 17 | 0.54 | 0.17 | 1.0 |

## P46 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:31:49

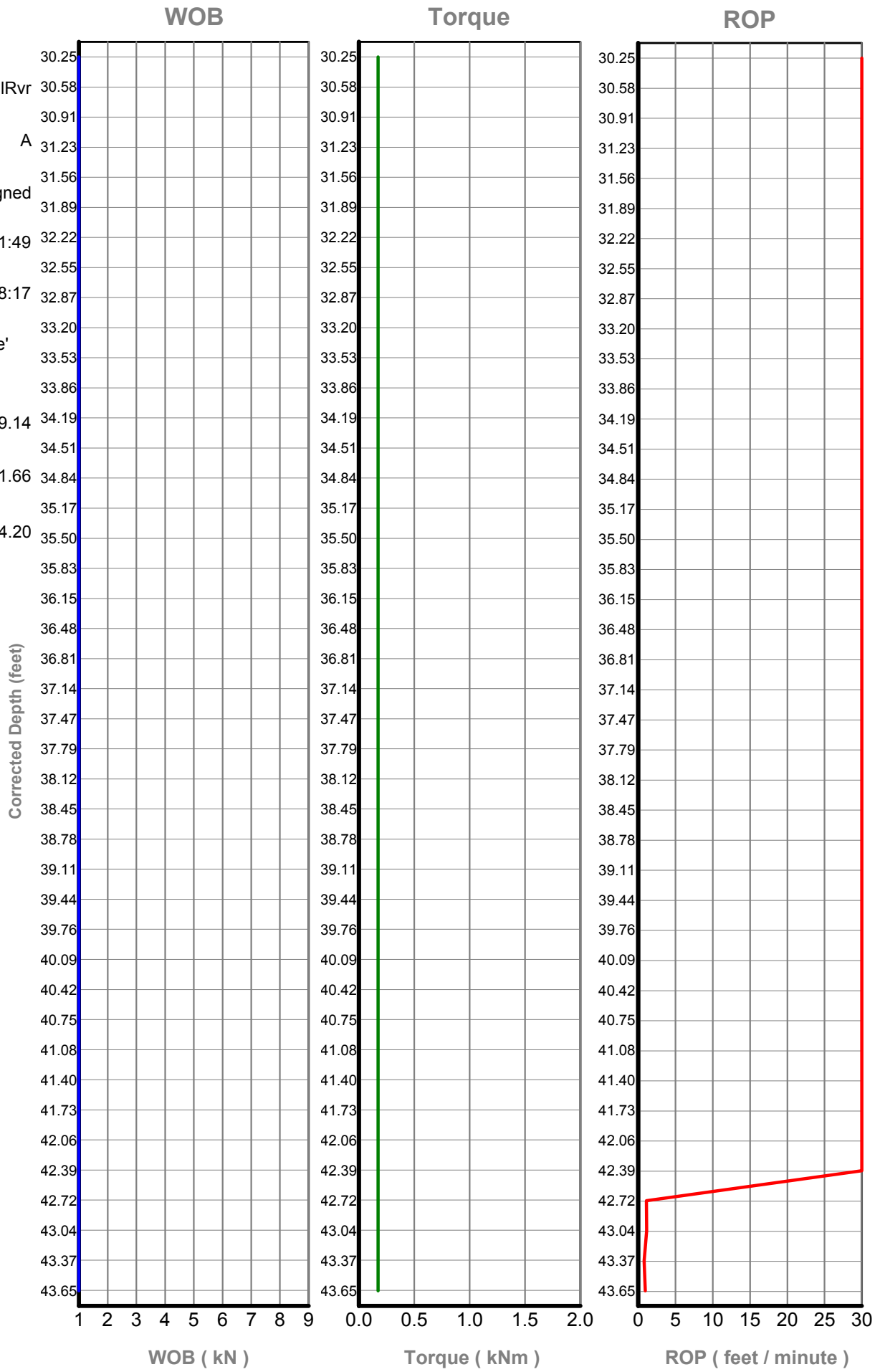
**End Date:**
5/3/2015 3:38:17

**Operator Note:**
'4.2 4.3 a Auto Complete'

**Northing:**
349,379.14

**Easting:**
224,801.66

**Tide (feet):**
4.20



## Hole: P47 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:34:31 | 34.12 | 30.02 | 1,255 | 0.32 | 0.38 | 68.6 |
| 5/3/2015 3:34:32 | 34.45 | 30.35 | 1,255 | 0.32 | 0.38 | 68.6 |
| 5/3/2015 3:34:32 | 34.78 | 30.68 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 3:34:32 | 35.11 | 31.01 | 1,258 | 0.31 | 0.39 | 68.8 |
| 5/3/2015 3:34:32 | 35.43 | 31.33 | 1,250 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:33 | 35.76 | 31.66 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/3/2015 3:34:33 | 36.09 | 31.99 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/3/2015 3:34:33 | 36.42 | 32.32 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 3:34:34 | 36.75 | 32.65 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 3:34:34 | 37.07 | 32.97 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:34 | 37.40 | 33.30 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:34 | 37.73 | 33.63 | 1,253 | 0.31 | 0.39 | 68.5 |
| 5/3/2015 3:34:35 | 38.06 | 33.96 | 1,253 | 0.31 | 0.39 | 68.5 |
| 5/3/2015 3:34:35 | 38.39 | 34.29 | 1,253 | 0.31 | 0.39 | 68.5 |
| 5/3/2015 3:34:35 | 38.71 | 34.61 | 1,253 | 0.31 | 0.39 | 68.5 |
| 5/3/2015 3:34:35 | 39.04 | 34.94 | 1,251 | 0.33 | 0.38 | 68.4 |
| 5/3/2015 3:34:36 | 39.37 | 35.27 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:36 | 39.70 | 35.60 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:36 | 40.03 | 35.93 | 1,244 | 0.31 | 0.38 | 68.0 |
| 5/3/2015 3:34:37 | 40.35 | 36.25 | 1,244 | 0.31 | 0.38 | 68.0 |
| 5/3/2015 3:34:37 | 40.68 | 36.58 | 1,250 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:37 | 41.01 | 36.91 | 1,250 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:37 | 41.34 | 37.24 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 3:34:38 | 41.67 | 37.57 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 3:34:38 | 41.99 | 37.89 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/3/2015 3:34:38 | 42.32 | 38.22 | 1,255 | 0.31 | 0.38 | 68.6 |
| 5/3/2015 3:34:38 | 42.65 | 38.55 | 1,257 | 0.31 | 0.38 | 68.8 |
| 5/3/2015 3:34:39 | 42.98 | 38.88 | 1,262 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 3:34:39 | 43.31 | 39.21 | 1,262 | 0.31 | 0.39 | 69.0 |
| 5/3/2015 3:34:39 | 43.64 | 39.54 | 1,257 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 3:34:40 | 43.96 | 39.86 | 1,257 | 0.31 | 0.40 | 68.8 |
| 5/3/2015 3:34:40 | 44.29 | 40.19 | 1,254 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 3:34:41 | 44.62 | 40.52 | 1,254 | 0.31 | 0.39 | 68.6 |
| 5/3/2015 3:34:41 | 44.95 | 40.85 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:41 | 45.28 | 41.18 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:41 | 45.60 | 41.50 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:42 | 45.93 | 41.83 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:42 | 46.26 | 42.16 | 1,252 | 0.31 | 0.38 | 68.4 |
| 5/3/2015 3:34:42 | 46.59 | 42.49 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:43 | 46.92 | 42.82 | 1,249 | 0.31 | 0.38 | 68.3 |
| 5/3/2015 3:34:43 | 47.24 | 43.14 | 1,249 | 0.31 | 0.39 | 68.3 |
| 5/3/2015 3:34:43 | 47.57 | 43.47 | 1,249 | 0.31 | 0.39 | 68.3 |
| 5/3/2015 3:34:43 | 47.90 | 43.80 | 1,235 | 0.30 | 0.43 | 67.5 |
| 5/3/2015 3:34:54 | 48.23 | 44.13 | 31 | 4.44 | 0.47 | 1.7 |
| 5/3/2015 3:34:58 | 48.56 | 44.46 | 69 | 4.98 | 0.51 | 3.8 |
| 5/3/2015 3:35:04 | 48.88 | 44.78 | 72 | 5.68 | 0.44 | 3.9 |
| 5/3/2015 3:35:05 | 49.21 | 45.11 | 156 | 3.74 | 0.47 | 8.5 |
| 5/3/2015 3:35:08 | 49.54 | 45.44 | 192 | 4.30 | 0.49 | 10.5 |
| 5/3/2015 3:35:16 | 49.87 | 45.77 | 52 | 4.19 | 0.48 | 2.9 |
| 5/3/2015 3:35:19 | 50.20 | 46.10 | 95 | 3.80 | 0.47 | 5.2 |
| 5/3/2015 3:35:24 | 50.53 | 46.43 | 0 | 2.94 | 0.44 | 0.0 |
| 5/3/2015 3:35:26 | 50.85 | 46.75 | 125 | 3.79 | 0.48 | 6.8 |
| 5/3/2015 3:35:29 | 51.18 | 47.08 | 116 | 3.64 | 0.48 | 6.3 |
| 5/3/2015 3:35:33 | 51.51 | 47.41 | 98 | 3.95 | 0.48 | 5.4 |
| 5/3/2015 3:35:36 | 51.84 | 47.74 | 119 | 4.05 | 0.49 | 6.5 |
| 5/3/2015 3:35:39 | 52.17 | 48.07 | 104 | 3.99 | 0.48 | 5.7 |
| 5/3/2015 3:35:44 | 52.49 | 48.39 | 73 | 4.03 | 0.48 | 4.0 |
| 5/3/2015 3:35:47 | 52.82 | 48.72 | 107 | 3.84 | 0.48 | 5.8 |
| 5/3/2015 3:35:51 | 53.15 | 49.05 | 101 | 4.20 | 0.47 | 5.5 |
| 5/3/2015 3:35:55 | 53.48 | 49.38 | 86 | 3.54 | 0.48 | 4.7 |
| 5/3/2015 3:35:58 | 53.81 | 49.71 | 98 | 3.63 | 0.48 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 3:36:01 | 54.13 | 50.03 | 113 | 4.00 | 0.47 | 6.2 |
| 5/3/2015 | 3:36:05 | 54.46 | 50.36 | 81 | 3.45 | 0.48 | 4.4 |
| 5/3/2015 | 3:36:08 | 54.79 | 50.69 | 107 | 3.55 | 0.48 | 5.9 |
| 5/3/2015 | 3:36:13 | 55.12 | 51.02 | 61 | 3.04 | 0.49 | 3.3 |
| 5/3/2015 | 3:36:24 | 55.45 | 51.35 | 31 | 2.90 | 0.49 | 1.7 |
| 5/3/2015 | 3:36:29 | 55.77 | 51.67 | 67 | 3.62 | 0.48 | 3.6 |
| 5/3/2015 | 3:36:32 | 56.10 | 52.00 | 110 | 4.02 | 0.48 | 6.0 |
| 5/3/2015 | 3:36:37 | 56.43 | 52.33 | 84 | 3.72 | 0.48 | 4.6 |
| 5/3/2015 | 3:36:40 | 56.76 | 52.66 | 116 | 3.90 | 0.48 | 6.3 |
| 5/3/2015 | 3:36:44 | 57.09 | 52.99 | 84 | 4.15 | 0.48 | 4.6 |
| 5/3/2015 | 3:36:48 | 57.41 | 53.31 | 98 | 4.15 | 0.48 | 5.4 |
| 5/3/2015 | 3:36:51 | 57.74 | 53.64 | 101 | 3.99 | 0.48 | 5.5 |
| 5/3/2015 | 3:36:54 | 58.07 | 53.97 | 116 | 3.77 | 0.48 | 6.3 |
| 5/3/2015 | 3:36:59 | 58.40 | 54.30 | 68 | 3.80 | 0.49 | 3.7 |
| 5/3/2015 | 3:37:10 | 58.73 | 54.63 | 32 | 3.12 | 0.48 | 1.7 |
| 5/3/2015 | 3:37:16 | 59.06 | 54.96 | 52 | 3.23 | 0.49 | 2.8 |
| 5/3/2015 | 3:37:22 | 59.28 | 55.18 | 43 | 3.51 | 0.49 | 2.4 |

## P47 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:33:06

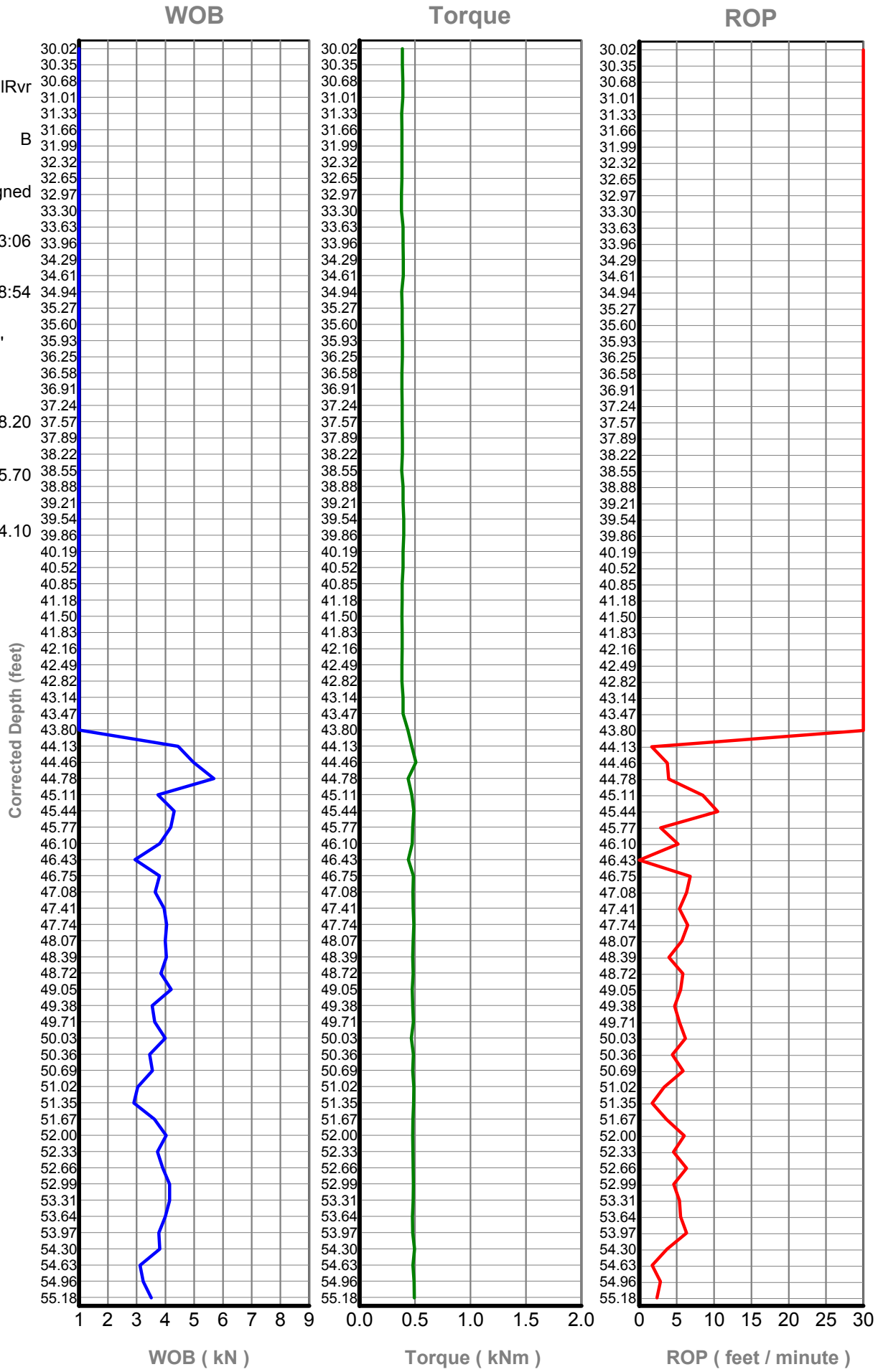
**End Date:**
5/3/2015 3:38:54

**Operator Note:**
'4.1 4.3b Auto Complete'

**Northing:**
349,418.20

**Easting:**
224,865.70

**Tide (feet):**
4.10



## Hole: P48 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:35:20 | 34.45 | 30.25 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:20 | 34.78 | 30.58 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:21 | 35.11 | 30.91 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:21 | 35.43 | 31.23 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:21 | 35.76 | 31.56 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 3:35:22 | 36.09 | 31.89 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 3:35:22 | 36.42 | 32.22 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 3:35:22 | 36.75 | 32.55 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:23 | 37.07 | 32.87 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:23 | 37.40 | 33.20 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 3:35:23 | 37.73 | 33.53 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 3:35:24 | 38.06 | 33.86 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 3:35:24 | 38.39 | 34.19 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 3:35:24 | 38.71 | 34.51 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 3:35:25 | 39.04 | 34.84 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 3:35:25 | 39.37 | 35.17 | 1,039 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:25 | 39.70 | 35.50 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:26 | 40.03 | 35.83 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:26 | 40.35 | 36.15 | 1,048 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 3:35:27 | 40.68 | 36.48 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 3:35:27 | 41.01 | 36.81 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 3:35:27 | 41.34 | 37.14 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 3:35:28 | 41.67 | 37.47 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:28 | 41.99 | 37.79 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:28 | 42.32 | 38.12 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/3/2015 3:35:29 | 42.65 | 38.45 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:29 | 42.98 | 38.78 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:29 | 43.31 | 39.11 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:30 | 43.64 | 39.44 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:30 | 43.96 | 39.76 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 3:35:30 | 44.29 | 40.09 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:31 | 44.62 | 40.42 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:31 | 44.95 | 40.75 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:31 | 45.28 | 41.08 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:32 | 45.60 | 41.40 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 3:35:32 | 45.93 | 41.73 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 3:35:32 | 46.26 | 42.06 | 1,023 | 1.14 | 0.29 | 56.0 |
| 5/3/2015 3:35:33 | 46.59 | 42.39 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:33 | 46.92 | 42.72 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:33 | 47.24 | 43.04 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/3/2015 3:35:34 | 47.57 | 43.37 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:34 | 47.90 | 43.70 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:34 | 48.23 | 44.03 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 3:35:35 | 48.56 | 44.36 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:35 | 48.88 | 44.68 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 3:35:55 | 49.21 | 45.01 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 3:35:56 | 49.54 | 45.34 | 139 | 1.14 | 0.29 | 7.6 |
| 5/3/2015 3:36:10 | 49.87 | 45.67 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 3:36:15 | 50.20 | 46.00 | 21 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 3:36:16 | 50.53 | 46.33 | 118 | 1.14 | 0.29 | 6.5 |
| 5/3/2015 3:36:16 | 50.85 | 46.65 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 3:36:17 | 51.18 | 46.98 | 324 | 1.14 | 0.29 | 17.7 |
| 5/3/2015 3:36:18 | 51.51 | 47.31 | 503 | 1.14 | 0.29 | 27.5 |
| 5/3/2015 3:36:33 | 51.84 | 47.64 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 3:36:34 | 52.17 | 47.97 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 3:36:35 | 52.49 | 48.29 | 263 | 1.14 | 0.29 | 14.4 |
| 5/3/2015 3:37:01 | 52.82 | 48.62 | 82 | 1.14 | 0.29 | 4.5 |
| 5/3/2015 3:37:08 | 53.15 | 48.95 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 3:38:03 | 53.48 | 49.28 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 3:39:49 | 53.81 | 49.61 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 3:40:39 | 54.13 | 49.93 | 0 | 1.14 | 0.29 | 0.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:06:02 | 54.46 | 50.26 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 | 4:06:09 | 54.79 | 50.59 | 46 | 1.14 | 0.29 | 2.5 |
| 5/3/2015 | 4:06:17 | 55.12 | 50.92 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 | 4:06:24 | 55.45 | 51.25 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 | 4:06:28 | 55.63 | 51.43 | 49 | 1.14 | 0.29 | 2.7 |

## P48 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:32:37

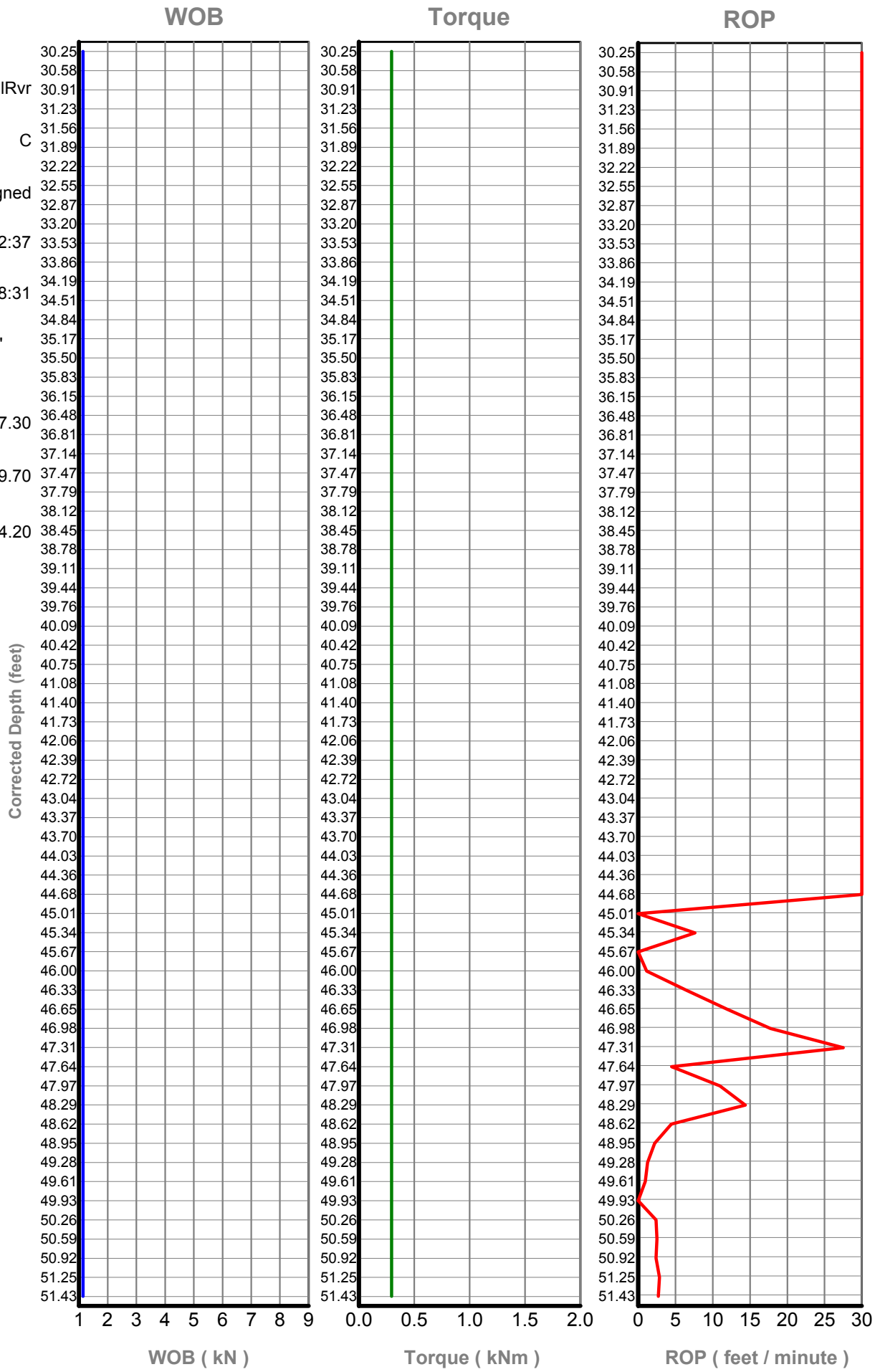
**End Date:**
5/3/2015 4:08:31

**Operator Note:**
'4.2 4.3c Auto Complete'

**Northing:**
349,457.30

**Easting:**
224,929.70

**Tide (feet):**
4.20



## Hole: P49 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:36:42 | 35.11 | 30.11 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:42 | 35.43 | 30.43 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:42 | 35.76 | 30.76 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:43 | 36.09 | 31.09 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:43 | 36.42 | 31.42 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:43 | 36.75 | 31.75 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:43 | 37.07 | 32.07 | 1,321 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:36:44 | 37.40 | 32.40 | 1,321 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:36:44 | 37.73 | 32.73 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 21:36:44 | 38.06 | 33.06 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 21:36:44 | 38.39 | 33.39 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 21:36:45 | 38.71 | 33.71 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:45 | 39.04 | 34.04 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:45 | 39.37 | 34.37 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 21:36:46 | 39.70 | 34.70 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 21:36:46 | 40.03 | 35.03 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:46 | 40.35 | 35.35 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:46 | 40.68 | 35.68 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:47 | 41.01 | 36.01 | 1,332 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 21:36:47 | 41.34 | 36.34 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 21:36:47 | 41.67 | 36.67 | 1,329 | 0.54 | 0.17 | 72.7 |
| 5/2/2015 21:36:47 | 41.99 | 36.99 | 1,313 | 0.54 | 0.17 | 71.8 |
| 5/2/2015 21:36:48 | 42.32 | 37.32 | 1,313 | 0.54 | 0.17 | 71.8 |
| 5/2/2015 21:36:48 | 42.65 | 37.65 | 1,327 | 0.54 | 0.17 | 72.6 |
| 5/2/2015 21:36:48 | 42.98 | 37.98 | 1,327 | 0.54 | 0.17 | 72.6 |
| 5/2/2015 21:37:06 | 43.31 | 38.31 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 21:37:06 | 43.64 | 38.64 | 197 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 21:37:07 | 43.96 | 38.96 | 197 | 0.54 | 0.17 | 10.8 |
| 5/2/2015 21:37:07 | 44.29 | 39.29 | 441 | 0.54 | 0.17 | 24.1 |
| 5/2/2015 21:37:07 | 44.62 | 39.62 | 441 | 0.54 | 0.17 | 24.1 |
| 5/2/2015 21:37:07 | 44.95 | 39.95 | 692 | 0.54 | 0.17 | 37.8 |
| 5/2/2015 21:37:08 | 45.28 | 40.28 | 692 | 0.54 | 0.17 | 37.8 |
| 5/2/2015 21:37:08 | 45.60 | 40.60 | 928 | 0.54 | 0.17 | 50.8 |
| 5/2/2015 21:37:08 | 45.93 | 40.93 | 1,176 | 0.54 | 0.17 | 64.3 |
| 5/2/2015 21:37:09 | 46.26 | 41.26 | 1,176 | 0.54 | 0.17 | 64.3 |
| 5/2/2015 21:37:09 | 46.59 | 41.59 | 1,217 | 0.54 | 0.17 | 66.5 |
| 5/2/2015 21:37:09 | 46.92 | 41.92 | 1,161 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 21:37:10 | 47.24 | 42.24 | 1,161 | 0.54 | 0.17 | 63.5 |
| 5/2/2015 21:37:10 | 47.57 | 42.57 | 1,111 | 0.54 | 0.17 | 60.7 |
| 5/2/2015 21:37:10 | 47.90 | 42.90 | 1,080 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 21:37:11 | 48.23 | 43.23 | 1,080 | 0.54 | 0.17 | 59.1 |
| 5/2/2015 21:37:11 | 48.56 | 43.56 | 1,063 | 0.54 | 0.17 | 58.1 |
| 5/2/2015 21:37:11 | 48.88 | 43.88 | 1,063 | 0.54 | 0.17 | 58.1 |
| 5/2/2015 21:37:11 | 49.21 | 44.21 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 21:37:12 | 49.54 | 44.54 | 1,079 | 0.54 | 0.17 | 59.0 |
| 5/2/2015 21:37:12 | 49.87 | 44.87 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/2/2015 21:37:12 | 50.20 | 45.20 | 1,176 | 0.54 | 0.17 | 64.3 |
| 5/2/2015 21:37:13 | 50.53 | 45.53 | 1,176 | 0.54 | 0.17 | 64.3 |
| 5/2/2015 21:37:47 | 50.85 | 45.85 | 73 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 21:37:48 | 51.18 | 46.18 | 181 | 0.54 | 0.17 | 9.9 |
| 5/2/2015 21:37:50 | 51.51 | 46.51 | 268 | 0.54 | 0.17 | 14.6 |
| 5/2/2015 21:37:56 | 51.84 | 46.84 | 63 | 0.54 | 0.17 | 3.4 |
| 5/2/2015 21:37:57 | 52.17 | 47.17 | 207 | 0.54 | 0.17 | 11.3 |
| 5/2/2015 21:37:58 | 52.49 | 47.49 | 207 | 0.54 | 0.17 | 11.3 |
| 5/2/2015 21:37:58 | 52.82 | 47.82 | 450 | 0.54 | 0.17 | 24.6 |
| 5/2/2015 21:37:59 | 53.15 | 48.15 | 536 | 0.54 | 0.17 | 29.3 |
| 5/2/2015 21:38:04 | 53.48 | 48.48 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 21:38:06 | 53.81 | 48.81 | 150 | 0.54 | 0.17 | 8.2 |
| 5/2/2015 21:38:10 | 54.13 | 49.13 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 21:38:13 | 54.46 | 49.46 | 87 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 21:38:14 | 54.79 | 49.79 | 102 | 0.54 | 0.17 | 5.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:38:15 | 55.12 | 50.12 | 263 | 0.54 | 0.17 | 14.4 |
| 5/2/2015 21:38:17 | 55.45 | 50.45 | 245 | 0.54 | 0.17 | 13.4 |
| 5/2/2015 21:38:22 | 55.77 | 50.77 | 46 | 0.54 | 0.17 | 2.5 |
| 5/2/2015 21:39:49 | 56.10 | 51.10 | 49 | 0.54 | 0.17 | 2.7 |
| 5/2/2015 21:39:58 | 56.43 | 51.43 | 75 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 21:40:04 | 56.76 | 51.76 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 21:40:08 | 57.09 | 52.09 | 76 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 21:40:15 | 57.41 | 52.41 | 58 | 0.54 | 0.17 | 3.2 |
| 5/2/2015 21:40:19 | 57.74 | 52.74 | 78 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 21:40:26 | 58.07 | 53.07 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 21:40:31 | 58.40 | 53.40 | 84 | 0.54 | 0.17 | 4.6 |
| 5/2/2015 21:40:35 | 58.73 | 53.73 | 80 | 0.54 | 0.17 | 4.4 |
| 5/2/2015 21:40:40 | 59.06 | 54.06 | 61 | 0.54 | 0.17 | 3.3 |
| 5/2/2015 21:40:52 | 59.38 | 54.38 | 61 | 0.54 | 0.17 | 3.3 |
| 5/2/2015 21:40:56 | 59.71 | 54.71 | 76 | 0.54 | 0.17 | 4.1 |
| 5/2/2015 21:41:06 | 60.04 | 55.04 | 79 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 21:41:06 | 60.09 | 55.09 | 96 | 0.54 | 0.17 | 5.2 |

## P49 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:28:07

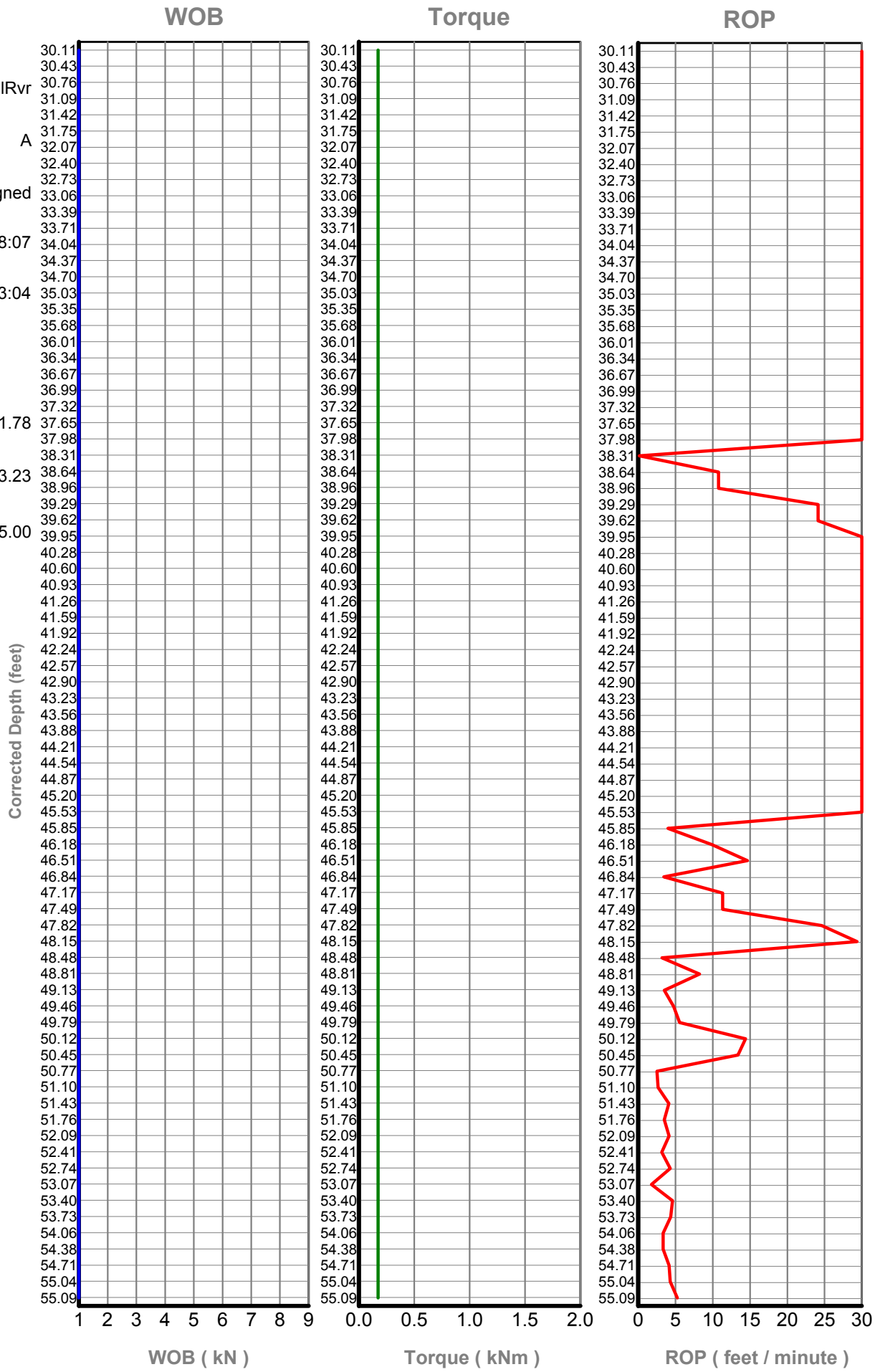
**End Date:**
5/2/2015 21:43:04

**Operator Note:**
'5 4.9 a Auto Complete'

**Northing:**
349,611.78

**Easting:**
225,183.23

**Tide (feet):**
5.00



## Hole: P5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:33:16 | 32.48 | 30.18 | 1,036 | 0.40 | 0.42 | 56.7 |
| 5/3/2015 5:33:17 | 32.81 | 30.51 | 1,036 | 0.40 | 0.42 | 56.7 |
| 5/3/2015 5:33:17 | 33.14 | 30.84 | 1,036 | 0.40 | 0.42 | 56.7 |
| 5/3/2015 5:33:17 | 33.46 | 31.16 | 1,042 | 0.40 | 0.42 | 57.0 |
| 5/3/2015 5:33:18 | 33.79 | 31.49 | 1,042 | 0.40 | 0.42 | 57.0 |
| 5/3/2015 5:33:18 | 34.12 | 31.82 | 1,038 | 0.40 | 0.42 | 56.7 |
| 5/3/2015 5:33:18 | 34.45 | 32.15 | 1,044 | 0.39 | 0.42 | 57.1 |
| 5/3/2015 5:33:19 | 34.78 | 32.48 | 1,044 | 0.39 | 0.42 | 57.1 |
| 5/3/2015 5:33:19 | 35.11 | 32.81 | 1,041 | 0.40 | 0.42 | 56.9 |
| 5/3/2015 5:33:19 | 35.43 | 33.13 | 1,053 | 0.39 | 0.42 | 57.6 |
| 5/3/2015 5:33:20 | 35.76 | 33.46 | 1,053 | 0.39 | 0.42 | 57.6 |
| 5/3/2015 5:33:20 | 36.09 | 33.79 | 1,041 | 0.40 | 0.42 | 56.9 |
| 5/3/2015 5:33:20 | 36.42 | 34.12 | 1,044 | 0.39 | 0.42 | 57.1 |
| 5/3/2015 5:33:21 | 36.75 | 34.45 | 1,044 | 0.39 | 0.42 | 57.1 |
| 5/3/2015 5:33:21 | 37.07 | 34.77 | 1,041 | 0.40 | 0.42 | 56.9 |
| 5/3/2015 5:33:21 | 37.40 | 35.10 | 1,046 | 0.39 | 0.41 | 57.2 |
| 5/3/2015 5:33:22 | 37.73 | 35.43 | 1,046 | 0.39 | 0.41 | 57.2 |
| 5/3/2015 5:33:22 | 38.06 | 35.76 | 1,037 | 0.39 | 0.42 | 56.7 |
| 5/3/2015 5:33:22 | 38.39 | 36.09 | 1,046 | 0.39 | 0.42 | 57.2 |
| 5/3/2015 5:33:23 | 38.71 | 36.41 | 1,046 | 0.39 | 0.42 | 57.2 |
| 5/3/2015 5:33:23 | 39.04 | 36.74 | 1,040 | 0.40 | 0.39 | 56.9 |
| 5/3/2015 5:33:24 | 39.37 | 37.07 | 1,056 | 0.40 | 0.42 | 57.7 |
| 5/3/2015 5:33:24 | 39.70 | 37.40 | 1,056 | 0.40 | 0.42 | 57.7 |
| 5/3/2015 5:33:24 | 40.03 | 37.73 | 1,050 | 0.40 | 0.42 | 57.4 |
| 5/3/2015 5:33:25 | 40.35 | 38.05 | 1,050 | 0.40 | 0.42 | 57.4 |
| 5/3/2015 5:33:25 | 40.68 | 38.38 | 1,039 | 0.39 | 0.43 | 56.8 |
| 5/3/2015 5:33:37 | 41.01 | 38.71 | 0 | 4.02 | 0.44 | 0.0 |
| 5/3/2015 5:33:37 | 41.34 | 39.04 | 149 | 4.32 | 0.46 | 8.1 |
| 5/3/2015 5:33:38 | 41.67 | 39.37 | 275 | 4.28 | 0.49 | 15.1 |
| 5/3/2015 5:33:41 | 41.99 | 39.69 | 126 | 4.66 | 0.49 | 6.9 |
| 5/3/2015 5:33:43 | 42.32 | 40.02 | 130 | 6.90 | 0.49 | 7.1 |
| 5/3/2015 5:33:46 | 42.65 | 40.35 | 159 | 8.04 | 0.51 | 8.7 |
| 5/3/2015 5:33:58 | 42.98 | 40.68 | 76 | 4.07 | 0.47 | 4.1 |
| 5/3/2015 5:33:59 | 43.31 | 41.01 | 170 | 4.34 | 0.47 | 9.3 |
| 5/3/2015 5:34:00 | 43.64 | 41.34 | 335 | 4.18 | 0.47 | 18.3 |
| 5/3/2015 5:34:01 | 43.96 | 41.66 | 399 | 3.77 | 0.48 | 21.8 |
| 5/3/2015 5:34:02 | 44.29 | 41.99 | 331 | 4.45 | 0.48 | 18.1 |
| 5/3/2015 5:34:03 | 44.62 | 42.32 | 287 | 4.17 | 0.49 | 15.7 |
| 5/3/2015 5:34:05 | 44.95 | 42.65 | 275 | 4.18 | 0.47 | 15.1 |
| 5/3/2015 5:34:06 | 45.28 | 42.98 | 314 | 4.15 | 0.45 | 17.2 |
| 5/3/2015 5:34:06 | 45.60 | 43.30 | 365 | 4.64 | 0.46 | 20.0 |
| 5/3/2015 5:34:07 | 45.93 | 43.63 | 443 | 4.18 | 0.48 | 24.2 |
| 5/3/2015 5:34:09 | 46.26 | 43.96 | 355 | 5.57 | 0.50 | 19.4 |
| 5/3/2015 5:34:10 | 46.59 | 44.29 | 228 | 4.29 | 0.49 | 12.5 |
| 5/3/2015 5:34:12 | 46.92 | 44.62 | 223 | 3.64 | 0.46 | 12.2 |
| 5/3/2015 5:34:13 | 47.24 | 44.94 | 275 | 3.71 | 0.47 | 15.0 |
| 5/3/2015 5:34:14 | 47.57 | 45.27 | 275 | 3.71 | 0.47 | 15.0 |
| 5/3/2015 5:34:14 | 47.90 | 45.60 | 378 | 4.34 | 0.47 | 20.6 |
| 5/3/2015 5:34:15 | 48.23 | 45.93 | 407 | 3.90 | 0.47 | 22.3 |
| 5/3/2015 5:34:17 | 48.56 | 46.26 | 287 | 4.32 | 0.48 | 15.7 |
| 5/3/2015 5:34:18 | 48.88 | 46.58 | 259 | 4.30 | 0.46 | 14.1 |
| 5/3/2015 5:34:19 | 49.21 | 46.91 | 367 | 3.10 | 0.45 | 20.1 |
| 5/3/2015 5:34:19 | 49.54 | 47.24 | 443 | 3.20 | 0.46 | 24.2 |
| 5/3/2015 5:34:20 | 49.87 | 47.57 | 503 | 3.31 | 0.48 | 27.5 |
| 5/3/2015 5:35:15 | 50.20 | 47.90 | 0 | 3.33 | 0.47 | 0.0 |
| 5/3/2015 5:35:15 | 50.53 | 48.23 | 71 | 3.28 | 0.47 | 3.9 |
| 5/3/2015 5:35:26 | 50.85 | 48.55 | 41 | 3.37 | 0.46 | 2.3 |
| 5/3/2015 5:35:26 | 51.18 | 48.88 | 127 | 3.55 | 0.47 | 6.9 |
| 5/3/2015 5:35:41 | 51.51 | 49.21 | 15 | 3.48 | 0.47 | 0.8 |
| 5/3/2015 5:35:48 | 51.84 | 49.54 | 0 | 2.90 | 0.47 | 0.0 |
| 5/3/2015 5:35:50 | 52.17 | 49.87 | 121 | 3.56 | 0.47 | 6.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 5:37:29 | 52.49 | 50.19 | 9 | 3.26 | 0.49 | 0.5 |
| 5/3/2015 | 5:37:30 | 52.82 | 50.52 | 144 | 3.24 | 0.47 | 7.9 |
| 5/3/2015 | 5:37:31 | 53.15 | 50.85 | 221 | 3.31 | 0.47 | 12.1 |
| 5/3/2015 | 5:37:43 | 53.48 | 51.18 | 0 | 3.47 | 0.48 | 0.0 |
| 5/3/2015 | 5:37:45 | 53.81 | 51.51 | 147 | 3.60 | 0.47 | 8.0 |
| 5/3/2015 | 5:37:56 | 54.13 | 51.83 | 0 | 3.32 | 0.47 | 0.0 |
| 5/3/2015 | 5:37:57 | 54.46 | 52.16 | 129 | 3.58 | 0.48 | 7.0 |
| 5/3/2015 | 5:38:39 | 54.79 | 52.49 | 124 | 3.45 | 0.46 | 6.8 |
| 5/3/2015 | 5:38:48 | 55.12 | 52.82 | 0 | 2.93 | 0.47 | 0.0 |
| 5/3/2015 | 5:38:49 | 55.45 | 53.15 | 166 | 3.76 | 0.47 | 9.1 |
| 5/3/2015 | 5:38:50 | 55.77 | 53.47 | 337 | 3.95 | 0.49 | 18.4 |
| 5/3/2015 | 5:39:09 | 56.10 | 53.80 | 0 | 3.44 | 0.48 | 0.0 |
| 5/3/2015 | 5:39:23 | 56.43 | 54.13 | 0 | 3.67 | 0.48 | 0.0 |
| 5/3/2015 | 5:39:43 | 56.76 | 54.46 | 35 | 4.29 | 0.47 | 1.9 |
| 5/3/2015 | 5:39:55 | 57.09 | 54.79 | 49 | 4.22 | 0.48 | 2.7 |
| 5/3/2015 | 5:40:20 | 57.30 | 55.00 | 15 | 4.21 | 0.49 | 0.8 |

## P5 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:31:20

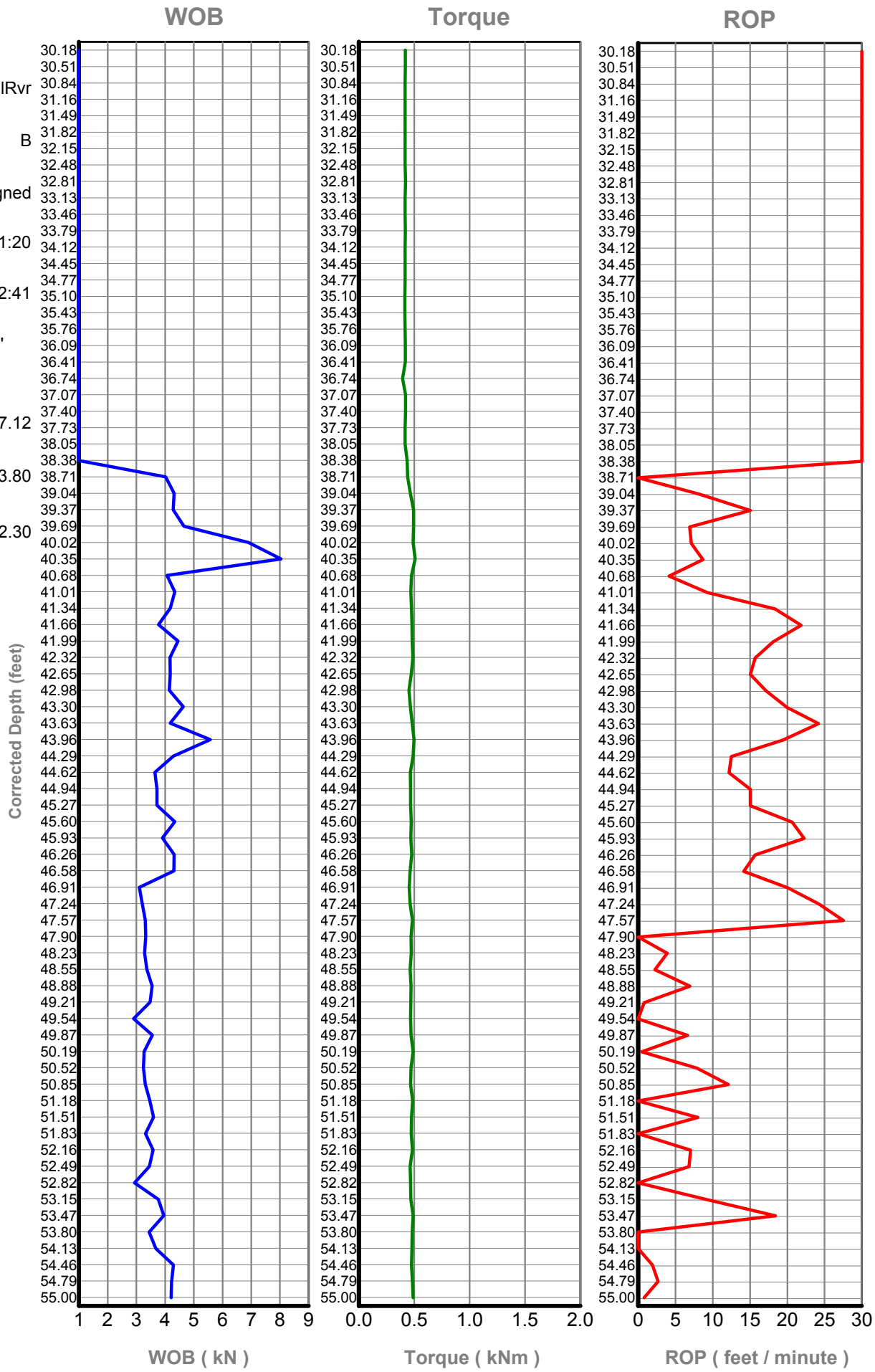
**End Date:**
5/3/2015 5:42:41

**Operator Note:**
'2.3 2.3b Auto Complete'

**Northing:**
349,417.12

**Easting:**
224,593.80

**Tide (feet):**
2.30



## Hole: P50 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:37:09 | 35.43 | 30.23 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:10 | 35.76 | 30.56 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:10 | 36.09 | 30.89 | 1,240 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 21:37:10 | 36.42 | 31.22 | 1,240 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 21:37:10 | 36.75 | 31.55 | 1,234 | 0.32 | 0.40 | 67.5 |
| 5/2/2015 21:37:11 | 37.07 | 31.87 | 1,231 | 0.32 | 0.39 | 67.3 |
| 5/2/2015 21:37:12 | 37.40 | 32.20 | 1,231 | 0.32 | 0.39 | 67.3 |
| 5/2/2015 21:37:12 | 37.73 | 32.53 | 1,227 | 0.33 | 0.38 | 67.1 |
| 5/2/2015 21:37:12 | 38.06 | 32.86 | 1,227 | 0.33 | 0.38 | 67.1 |
| 5/2/2015 21:37:12 | 38.39 | 33.19 | 1,240 | 0.33 | 0.38 | 67.8 |
| 5/2/2015 21:37:13 | 38.71 | 33.51 | 1,240 | 0.33 | 0.38 | 67.8 |
| 5/2/2015 21:37:13 | 39.04 | 33.84 | 1,237 | 0.34 | 0.39 | 67.7 |
| 5/2/2015 21:37:13 | 39.37 | 34.17 | 1,237 | 0.34 | 0.39 | 67.7 |
| 5/2/2015 21:37:13 | 39.70 | 34.50 | 1,240 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 21:37:14 | 40.03 | 34.83 | 1,240 | 0.32 | 0.39 | 67.8 |
| 5/2/2015 21:37:14 | 40.35 | 35.15 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:37:14 | 40.68 | 35.48 | 1,240 | 0.33 | 0.38 | 67.8 |
| 5/2/2015 21:37:15 | 41.01 | 35.81 | 1,240 | 0.33 | 0.38 | 67.8 |
| 5/2/2015 21:37:15 | 41.34 | 36.14 | 1,234 | 0.33 | 0.39 | 67.5 |
| 5/2/2015 21:37:15 | 41.67 | 36.47 | 1,234 | 0.33 | 0.39 | 67.5 |
| 5/2/2015 21:37:15 | 41.99 | 36.79 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:16 | 42.32 | 37.12 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:16 | 42.65 | 37.45 | 1,230 | 0.33 | 0.38 | 67.2 |
| 5/2/2015 21:37:16 | 42.98 | 37.78 | 1,230 | 0.33 | 0.38 | 67.2 |
| 5/2/2015 21:37:16 | 43.31 | 38.11 | 1,243 | 0.33 | 0.39 | 68.0 |
| 5/2/2015 21:37:17 | 43.64 | 38.44 | 1,240 | 0.33 | 0.39 | 67.8 |
| 5/2/2015 21:37:17 | 43.96 | 38.76 | 1,240 | 0.33 | 0.39 | 67.8 |
| 5/2/2015 21:37:17 | 44.29 | 39.09 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:37:18 | 44.62 | 39.42 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:37:18 | 44.95 | 39.75 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:37:18 | 45.28 | 40.08 | 1,240 | 0.33 | 0.40 | 67.8 |
| 5/2/2015 21:37:18 | 45.60 | 40.40 | 1,248 | 0.33 | 0.39 | 68.2 |
| 5/2/2015 21:37:19 | 45.93 | 40.73 | 1,248 | 0.33 | 0.39 | 68.2 |
| 5/2/2015 21:37:19 | 46.26 | 41.06 | 1,234 | 0.33 | 0.39 | 67.5 |
| 5/2/2015 21:37:19 | 46.59 | 41.39 | 1,242 | 0.33 | 0.39 | 67.9 |
| 5/2/2015 21:37:20 | 46.92 | 41.72 | 1,242 | 0.33 | 0.39 | 67.9 |
| 5/2/2015 21:37:20 | 47.24 | 42.04 | 1,237 | 0.33 | 0.40 | 67.7 |
| 5/2/2015 21:37:20 | 47.57 | 42.37 | 1,237 | 0.33 | 0.40 | 67.7 |
| 5/2/2015 21:37:20 | 47.90 | 42.70 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:21 | 48.23 | 43.03 | 1,237 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:37:21 | 48.56 | 43.36 | 1,227 | 0.33 | 0.39 | 67.1 |
| 5/2/2015 21:37:22 | 48.88 | 43.68 | 1,227 | 0.33 | 0.39 | 67.1 |
| 5/2/2015 21:37:22 | 49.21 | 44.01 | 1,231 | 0.35 | 0.40 | 67.3 |
| 5/2/2015 21:37:22 | 49.54 | 44.34 | 1,224 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:37:23 | 49.87 | 44.67 | 1,224 | 0.33 | 0.39 | 66.9 |
| 5/2/2015 21:37:23 | 50.20 | 45.00 | 1,231 | 0.33 | 0.40 | 67.3 |
| 5/2/2015 21:37:23 | 50.53 | 45.33 | 1,231 | 0.33 | 0.40 | 67.3 |
| 5/2/2015 21:37:23 | 50.85 | 45.65 | 1,229 | 0.33 | 0.38 | 67.2 |
| 5/2/2015 21:37:24 | 51.18 | 45.98 | 1,229 | 0.33 | 0.38 | 67.2 |
| 5/2/2015 21:37:24 | 51.51 | 46.31 | 1,236 | 0.32 | 0.43 | 67.6 |
| 5/2/2015 21:37:30 | 51.84 | 46.64 | 0 | 3.07 | 0.44 | 0.0 |
| 5/2/2015 21:37:32 | 52.17 | 46.97 | 119 | 4.06 | 0.48 | 6.5 |
| 5/2/2015 21:37:33 | 52.49 | 47.29 | 242 | 3.37 | 0.46 | 13.2 |
| 5/2/2015 21:37:38 | 52.82 | 47.62 | 113 | 3.52 | 0.48 | 6.2 |
| 5/2/2015 21:37:41 | 53.15 | 47.95 | 118 | 3.64 | 0.48 | 6.4 |
| 5/2/2015 21:37:47 | 53.48 | 48.28 | 32 | 3.22 | 0.48 | 1.7 |
| 5/2/2015 21:37:57 | 53.81 | 48.61 | 75 | 3.20 | 0.47 | 4.1 |
| 5/2/2015 21:38:01 | 54.13 | 48.93 | 51 | 3.44 | 0.46 | 2.8 |
| 5/2/2015 21:38:05 | 54.46 | 49.26 | 0 | 2.78 | 0.46 | 0.0 |
| 5/2/2015 21:38:13 | 54.79 | 49.59 | 3 | 3.35 | 0.49 | 0.2 |
| 5/2/2015 21:38:18 | 55.12 | 49.92 | 68 | 3.96 | 0.47 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 21:38:30 | 55.45 | 50.25 | 63 | 3.63 | 0.47 | 3.4 |
| 5/2/2015 | 21:38:36 | 55.77 | 50.57 | 91 | 3.72 | 0.47 | 5.0 |
| 5/2/2015 | 21:38:50 | 56.10 | 50.90 | 41 | 3.73 | 0.48 | 2.3 |
| 5/2/2015 | 21:38:59 | 56.43 | 51.23 | 14 | 3.72 | 0.49 | 0.8 |
| 5/2/2015 | 21:39:10 | 56.76 | 51.56 | 0 | 3.81 | 0.49 | 0.0 |
| 5/2/2015 | 21:39:18 | 57.09 | 51.89 | 15 | 3.81 | 0.48 | 0.8 |
| 5/2/2015 | 21:39:23 | 57.41 | 52.21 | 71 | 4.92 | 0.47 | 3.9 |
| 5/2/2015 | 21:40:02 | 57.74 | 52.54 | 26 | 3.62 | 0.48 | 1.4 |
| 5/2/2015 | 21:40:10 | 58.07 | 52.87 | 38 | 2.97 | 0.49 | 2.1 |
| 5/2/2015 | 21:40:21 | 58.40 | 53.20 | 33 | 2.65 | 0.49 | 1.8 |
| 5/2/2015 | 21:40:32 | 58.73 | 53.53 | 35 | 3.05 | 0.49 | 1.9 |
| 5/2/2015 | 21:40:34 | 58.83 | 53.63 | 32 | 2.89 | 0.48 | 1.7 |

## P50 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:35:42

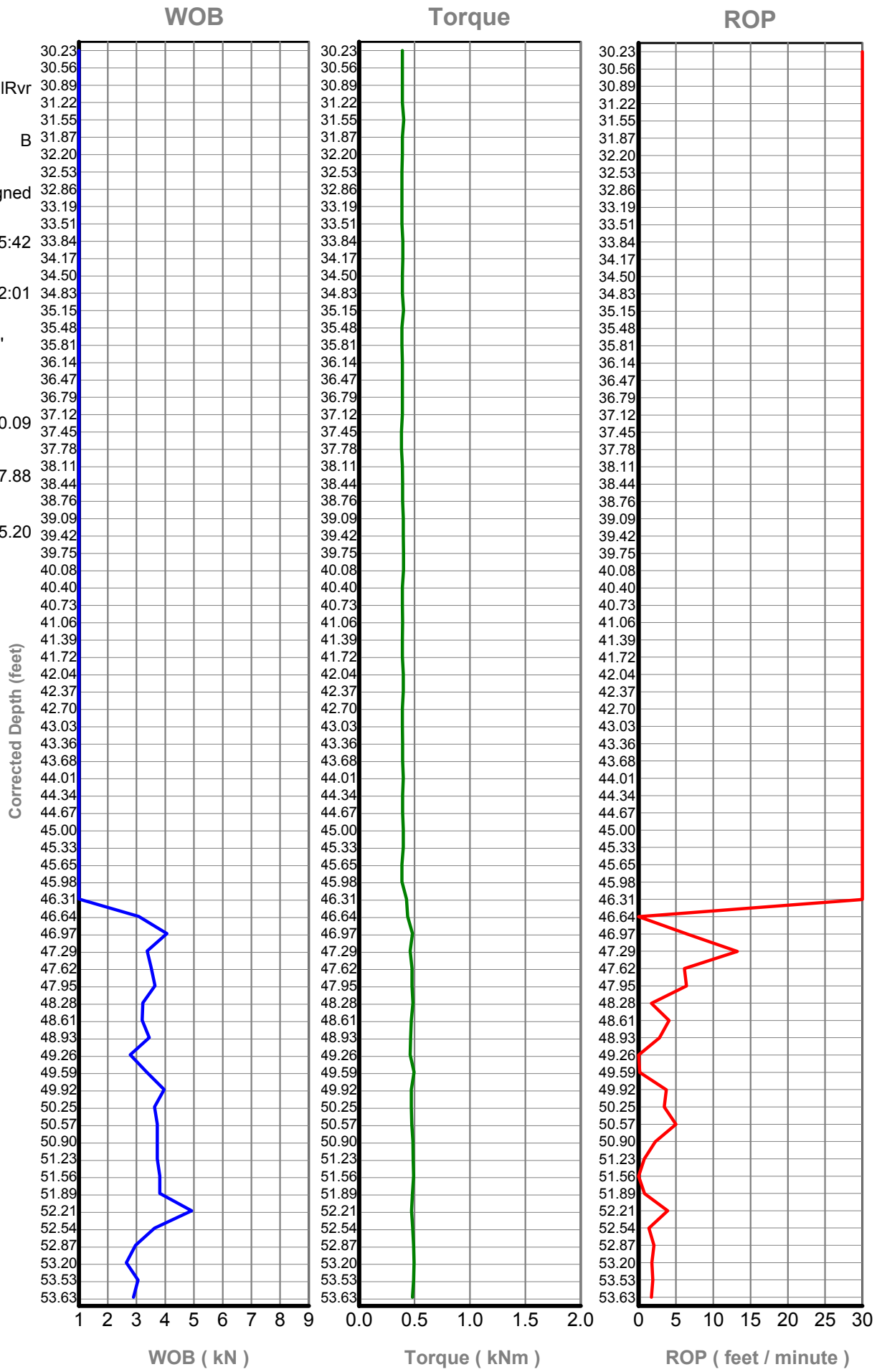
**End Date:**
5/2/2015 21:42:01

**Operator Note:**
'5.2 4.9b Auto Complete'

**Northing:**
349,650.09

**Easting:**
225,247.88

**Tide (feet):**
5.20



## Hole: P51 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:35:45 | 35.43 | 30.23 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/2/2015 21:35:45 | 35.76 | 30.56 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:35:45 | 36.09 | 30.89 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:35:46 | 36.42 | 31.22 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:35:46 | 36.75 | 31.55 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:35:47 | 37.07 | 31.87 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:35:47 | 37.40 | 32.20 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:35:47 | 37.73 | 32.53 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:35:48 | 38.06 | 32.86 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:35:48 | 38.39 | 33.19 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:35:48 | 38.71 | 33.51 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:35:49 | 39.04 | 33.84 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:35:49 | 39.37 | 34.17 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:35:49 | 39.70 | 34.50 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:35:50 | 40.03 | 34.83 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:35:50 | 40.35 | 35.15 | 1,049 | 1.14 | 0.29 | 57.4 |
| 5/2/2015 21:35:50 | 40.68 | 35.48 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:35:51 | 41.01 | 35.81 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:35:51 | 41.34 | 36.14 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:35:51 | 41.67 | 36.47 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:35:52 | 41.99 | 36.79 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/2/2015 21:35:52 | 42.32 | 37.12 | 1,046 | 1.14 | 0.29 | 57.2 |
| 5/2/2015 21:35:52 | 42.65 | 37.45 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:53 | 42.98 | 37.78 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:53 | 43.31 | 38.11 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/2/2015 21:35:53 | 43.64 | 38.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:35:54 | 43.96 | 38.76 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:35:54 | 44.29 | 39.09 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/2/2015 21:35:54 | 44.62 | 39.42 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:55 | 44.95 | 39.75 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:55 | 45.28 | 40.08 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/2/2015 21:35:55 | 45.60 | 40.40 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:56 | 45.93 | 40.73 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:56 | 46.26 | 41.06 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:35:56 | 46.59 | 41.39 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 21:35:57 | 46.92 | 41.72 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/2/2015 21:35:57 | 47.24 | 42.04 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:57 | 47.57 | 42.37 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 21:35:58 | 47.90 | 42.70 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/2/2015 21:35:58 | 48.23 | 43.03 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:59 | 48.56 | 43.36 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:59 | 48.88 | 43.68 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:35:59 | 49.21 | 44.01 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:36:00 | 49.54 | 44.34 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:36:00 | 49.87 | 44.67 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/2/2015 21:36:01 | 50.20 | 45.00 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/2/2015 21:36:20 | 50.53 | 45.33 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:36:23 | 50.85 | 45.65 | 182 | 1.14 | 0.29 | 10.0 |
| 5/2/2015 21:36:29 | 51.18 | 45.98 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 21:36:30 | 51.51 | 46.31 | 139 | 1.14 | 0.29 | 7.6 |
| 5/2/2015 21:36:31 | 51.84 | 46.64 | 273 | 1.14 | 0.29 | 14.9 |
| 5/2/2015 21:36:31 | 52.17 | 46.97 | 367 | 1.14 | 0.29 | 20.1 |
| 5/2/2015 21:36:36 | 52.49 | 47.29 | 17 | 1.14 | 0.29 | 0.9 |
| 5/2/2015 21:36:43 | 52.82 | 47.62 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 21:36:45 | 53.15 | 47.95 | 150 | 1.14 | 0.29 | 8.2 |
| 5/2/2015 21:36:48 | 53.48 | 48.28 | 135 | 1.14 | 0.29 | 7.4 |
| 5/2/2015 21:37:17 | 53.81 | 48.61 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 21:37:22 | 54.13 | 48.93 | 69 | 1.14 | 0.29 | 3.8 |
| 5/2/2015 21:37:26 | 54.46 | 49.26 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 21:37:34 | 54.79 | 49.59 | 20 | 1.14 | 0.29 | 1.1 |
| 5/2/2015 21:37:37 | 55.12 | 49.92 | 87 | 1.14 | 0.29 | 4.7 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:37:46 | 55.45 | 50.25 | 26 | 1.14 | 0.29 | 1.4 |
| 5/2/2015 21:37:53 | 55.77 | 50.57 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 21:38:03 | 56.10 | 50.90 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 21:38:12 | 56.43 | 51.23 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 21:38:22 | 56.76 | 51.56 | 32 | 1.14 | 0.29 | 1.8 |
| 5/2/2015 21:38:33 | 57.09 | 51.89 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 21:38:41 | 57.34 | 52.14 | 35 | 1.14 | 0.29 | 1.9 |

## P51 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:34:41

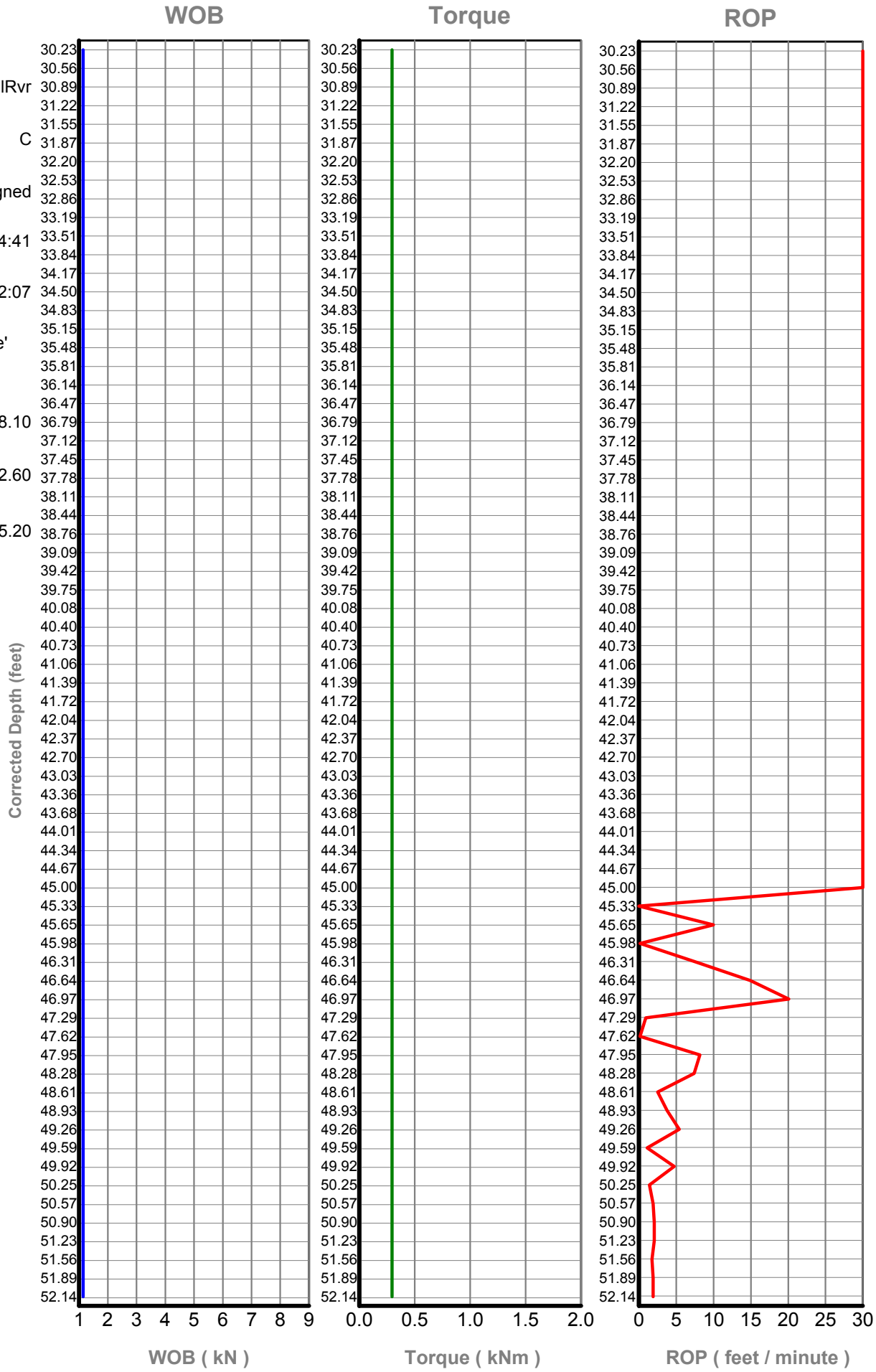
**End Date:**
5/2/2015 21:42:07

**Operator Note:**
'5.2 4.9 x Auto Complete'

**Northing:**
349,688.10

**Easting:**
225,312.60

**Tide (feet):**
5.20



## Hole: P52 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:31:43 | 33.46 | 30.16 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:31:44 | 33.79 | 30.49 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:31:44 | 34.12 | 30.82 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:31:44 | 34.45 | 31.15 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:45 | 34.78 | 31.48 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:45 | 35.11 | 31.81 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:45 | 35.43 | 32.13 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:46 | 35.76 | 32.46 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:47 | 36.09 | 32.79 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:47 | 36.42 | 33.12 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:47 | 36.75 | 33.45 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:48 | 37.07 | 33.77 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:48 | 37.40 | 34.10 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:48 | 37.73 | 34.43 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:31:49 | 38.06 | 34.76 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:49 | 38.39 | 35.09 | 992 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:49 | 38.71 | 35.41 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:50 | 39.04 | 35.74 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:31:50 | 39.37 | 36.07 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:51 | 39.70 | 36.40 | 991 | 0.54 | 0.17 | 54.2 |
| 5/2/2015 15:31:51 | 40.03 | 36.73 | 988 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 15:31:51 | 40.35 | 37.05 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:31:52 | 40.68 | 37.38 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:31:52 | 41.01 | 37.71 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:31:52 | 41.34 | 38.04 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:53 | 41.67 | 38.37 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:53 | 41.99 | 38.69 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 15:31:53 | 42.32 | 39.02 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:54 | 42.65 | 39.35 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:31:54 | 42.98 | 39.68 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:31:54 | 43.31 | 40.01 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:55 | 43.64 | 40.34 | 983 | 0.54 | 0.17 | 53.7 |
| 5/2/2015 15:31:55 | 43.96 | 40.66 | 983 | 0.54 | 0.17 | 53.7 |
| 5/2/2015 15:31:55 | 44.29 | 40.99 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:56 | 44.62 | 41.32 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 15:31:56 | 44.95 | 41.65 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 15:31:56 | 45.28 | 41.98 | 983 | 0.54 | 0.17 | 53.8 |
| 5/2/2015 15:31:57 | 45.60 | 42.30 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:31:57 | 45.93 | 42.63 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:31:58 | 46.26 | 42.96 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:31:58 | 46.59 | 43.29 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:31:59 | 46.92 | 43.62 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:31:59 | 47.24 | 43.94 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:32:12 | 47.57 | 44.27 | 87 | 0.54 | 0.17 | 4.7 |
| 5/2/2015 15:32:13 | 47.90 | 44.60 | 196 | 0.54 | 0.17 | 10.7 |
| 5/2/2015 15:32:16 | 48.23 | 44.93 | 115 | 0.54 | 0.17 | 6.3 |
| 5/2/2015 15:32:16 | 48.56 | 45.26 | 88 | 0.54 | 0.17 | 4.8 |
| 5/2/2015 15:32:17 | 48.88 | 45.58 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 15:32:18 | 49.21 | 45.91 | 448 | 0.54 | 0.17 | 24.5 |
| 5/2/2015 15:32:21 | 49.54 | 46.24 | 81 | 0.54 | 0.17 | 4.4 |
| 5/2/2015 15:32:23 | 49.87 | 46.57 | 166 | 0.54 | 0.17 | 9.1 |
| 5/2/2015 15:32:25 | 50.20 | 46.90 | 189 | 0.54 | 0.17 | 10.3 |
| 5/2/2015 15:32:26 | 50.53 | 47.23 | 221 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 15:32:26 | 50.85 | 47.55 | 294 | 0.54 | 0.17 | 16.1 |
| 5/2/2015 15:32:27 | 51.18 | 47.88 | 420 | 0.54 | 0.17 | 23.0 |
| 5/2/2015 15:32:29 | 51.51 | 48.21 | 209 | 0.54 | 0.17 | 11.4 |
| 5/2/2015 15:32:32 | 51.84 | 48.54 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 15:32:42 | 52.17 | 48.87 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 15:32:51 | 52.49 | 49.19 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 15:33:01 | 52.82 | 49.52 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 15:33:11 | 53.15 | 49.85 | 35 | 0.54 | 0.17 | 1.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 15:33:21 | 53.48 | 50.18 | 37 | 0.54 | 0.17 | 2.0 | |

## P52 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:30:24

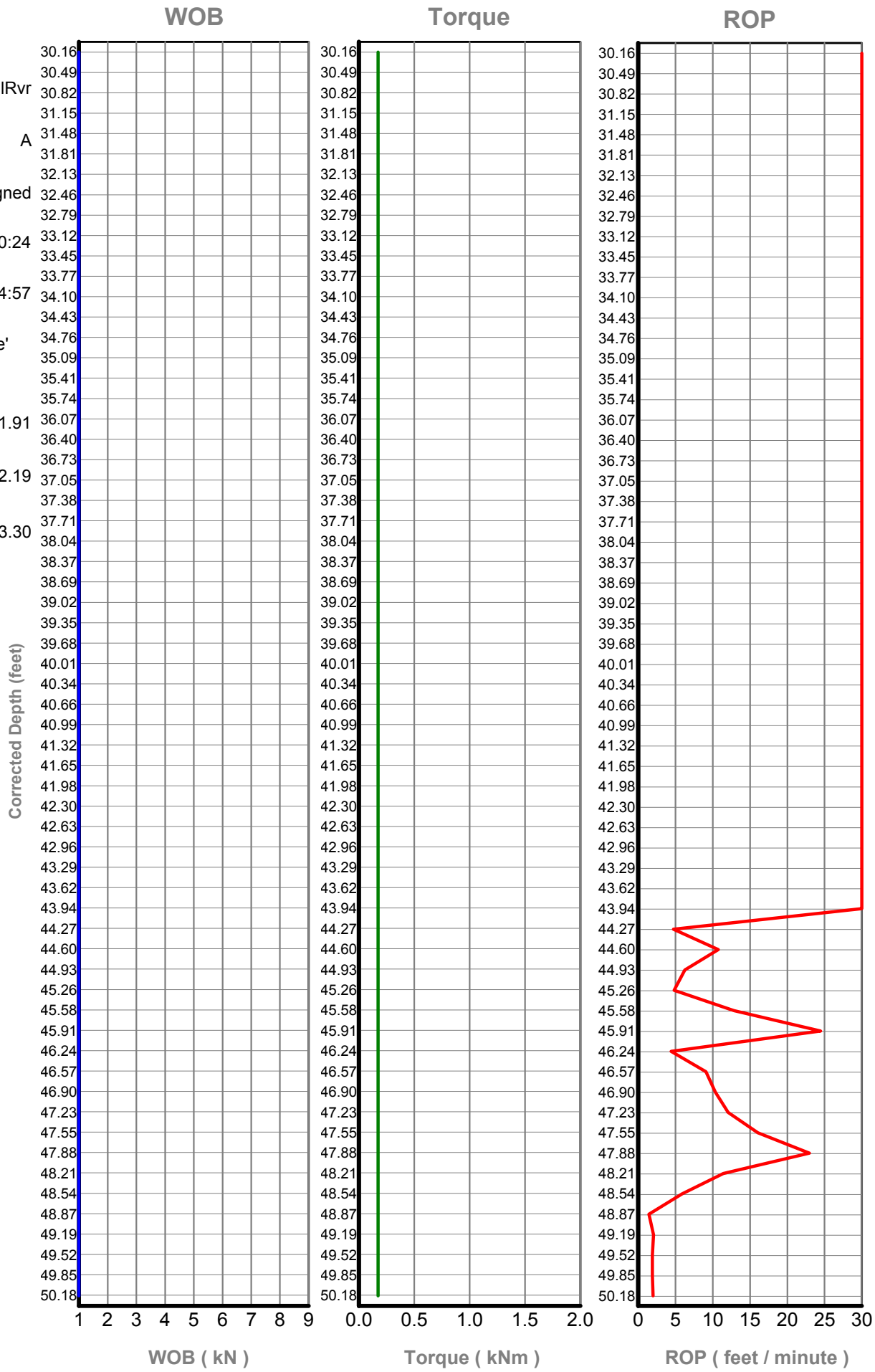
**End Date:**
5/2/2015 15:34:57

**Operator Note:**
'3.3 3.5 a Auto Complete'

**Northing:**
349,741.91

**Easting:**
225,382.19

**Tide (feet):**
3.30



## Hole: P53 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:31:36 | 33.46 | 30.06 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/2/2015 15:31:37 | 33.79 | 30.39 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/2/2015 15:31:37 | 34.12 | 30.72 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:38 | 34.45 | 31.05 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:38 | 34.78 | 31.38 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:38 | 35.11 | 31.71 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:38 | 35.43 | 32.03 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:39 | 35.76 | 32.36 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:39 | 36.09 | 32.69 | 1,353 | 0.26 | 0.47 | 74.0 |
| 5/2/2015 15:31:39 | 36.42 | 33.02 | 1,353 | 0.26 | 0.47 | 74.0 |
| 5/2/2015 15:31:39 | 36.75 | 33.35 | 1,361 | 0.26 | 0.39 | 74.4 |
| 5/2/2015 15:31:40 | 37.07 | 33.67 | 1,361 | 0.26 | 0.39 | 74.4 |
| 5/2/2015 15:31:40 | 37.40 | 34.00 | 1,350 | 0.26 | 0.37 | 73.8 |
| 5/2/2015 15:31:40 | 37.73 | 34.33 | 1,350 | 0.26 | 0.37 | 73.8 |
| 5/2/2015 15:31:40 | 38.06 | 34.66 | 1,355 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:41 | 38.39 | 34.99 | 1,355 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:31:40 | 38.71 | 35.31 | 1,350 | 0.26 | 0.39 | 73.8 |
| 5/2/2015 15:31:41 | 39.04 | 35.64 | 1,350 | 0.26 | 0.39 | 73.8 |
| 5/2/2015 15:31:41 | 39.37 | 35.97 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/2/2015 15:31:42 | 39.70 | 36.30 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/2/2015 15:31:42 | 40.03 | 36.63 | 1,353 | 0.26 | 0.37 | 74.0 |
| 5/2/2015 15:31:42 | 40.35 | 36.95 | 1,353 | 0.26 | 0.37 | 74.0 |
| 5/2/2015 15:31:42 | 40.68 | 37.28 | 1,353 | 0.25 | 0.40 | 74.0 |
| 5/2/2015 15:31:42 | 41.01 | 37.61 | 1,353 | 0.25 | 0.40 | 74.0 |
| 5/2/2015 15:31:43 | 41.34 | 37.94 | 1,353 | 0.25 | 0.40 | 74.0 |
| 5/2/2015 15:31:43 | 41.67 | 38.27 | 1,353 | 0.25 | 0.40 | 74.0 |
| 5/2/2015 15:31:43 | 41.99 | 38.59 | 1,351 | 0.26 | 0.38 | 73.9 |
| 5/2/2015 15:31:44 | 42.32 | 38.92 | 1,351 | 0.26 | 0.38 | 73.9 |
| 5/2/2015 15:31:44 | 42.65 | 39.25 | 1,348 | 0.26 | 0.39 | 73.7 |
| 5/2/2015 15:31:44 | 42.98 | 39.58 | 1,348 | 0.26 | 0.39 | 73.7 |
| 5/2/2015 15:31:44 | 43.31 | 39.91 | 1,351 | 0.27 | 0.36 | 73.9 |
| 5/2/2015 15:31:45 | 43.64 | 40.24 | 1,351 | 0.27 | 0.36 | 73.9 |
| 5/2/2015 15:31:45 | 43.96 | 40.56 | 1,335 | 0.27 | 0.39 | 73.0 |
| 5/2/2015 15:31:45 | 44.29 | 40.89 | 1,335 | 0.27 | 0.39 | 73.0 |
| 5/2/2015 15:31:45 | 44.62 | 41.22 | 1,346 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:31:46 | 44.95 | 41.55 | 1,346 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:31:46 | 45.28 | 41.88 | 1,348 | 0.26 | 0.37 | 73.7 |
| 5/2/2015 15:31:46 | 45.60 | 42.20 | 1,348 | 0.26 | 0.37 | 73.7 |
| 5/2/2015 15:31:46 | 45.93 | 42.53 | 1,348 | 0.27 | 0.37 | 73.7 |
| 5/2/2015 15:31:47 | 46.26 | 42.86 | 1,348 | 0.27 | 0.37 | 73.7 |
| 5/2/2015 15:31:47 | 46.59 | 43.19 | 1,329 | 0.31 | 0.39 | 72.7 |
| 5/2/2015 15:31:47 | 46.92 | 43.52 | 1,329 | 0.31 | 0.39 | 72.7 |
| 5/2/2015 15:31:48 | 47.24 | 43.84 | 1,356 | 0.26 | 0.38 | 74.2 |
| 5/2/2015 15:31:48 | 47.57 | 44.17 | 1,356 | 0.26 | 0.38 | 74.2 |
| 5/2/2015 15:31:48 | 47.90 | 44.50 | 1,345 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:31:49 | 48.23 | 44.83 | 1,345 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:31:49 | 48.56 | 45.16 | 1,337 | 0.25 | 0.41 | 73.1 |
| 5/2/2015 15:31:52 | 48.88 | 45.48 | 0 | 3.55 | 0.45 | 0.0 |
| 5/2/2015 15:31:54 | 49.21 | 45.81 | 126 | 3.03 | 0.47 | 6.9 |
| 5/2/2015 15:31:56 | 49.54 | 46.14 | 145 | 3.64 | 0.46 | 7.9 |
| 5/2/2015 15:32:00 | 49.87 | 46.47 | 54 | 2.61 | 0.45 | 3.0 |
| 5/2/2015 15:32:00 | 50.20 | 46.80 | 155 | 3.22 | 0.43 | 8.5 |
| 5/2/2015 15:32:04 | 50.53 | 47.13 | 37 | 6.07 | 0.49 | 2.0 |
| 5/2/2015 15:32:12 | 50.85 | 47.45 | 99 | 4.87 | 0.51 | 5.4 |
| 5/2/2015 15:32:16 | 51.18 | 47.78 | 46 | 3.75 | 0.48 | 2.5 |
| 5/2/2015 15:32:17 | 51.51 | 48.11 | 174 | 3.42 | 0.45 | 9.5 |
| 5/2/2015 15:32:18 | 51.84 | 48.44 | 260 | 3.43 | 0.45 | 14.2 |
| 5/2/2015 15:32:23 | 52.17 | 48.77 | 12 | 4.05 | 0.49 | 0.6 |
| 5/2/2015 15:32:25 | 52.49 | 49.09 | 115 | 3.64 | 0.45 | 6.3 |
| 5/2/2015 15:32:26 | 52.82 | 49.42 | 212 | 4.90 | 0.45 | 11.6 |
| 5/2/2015 15:32:26 | 53.15 | 49.75 | 292 | 2.27 | 0.44 | 16.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 15:32:55 | 53.48 | 50.08 | 0 | 3.58 | 0.46 | 0.0 |
| 5/2/2015 | 15:33:19 | 53.81 | 50.41 | 0 | 3.28 | 0.47 | 0.0 |
| 5/2/2015 | 15:33:22 | 54.13 | 50.73 | 122 | 2.73 | 0.48 | 6.7 |
| 5/2/2015 | 15:33:35 | 54.46 | 51.06 | 9 | 2.97 | 0.47 | 0.5 |
| 5/2/2015 | 15:33:38 | 54.79 | 51.39 | 95 | 3.28 | 0.47 | 5.2 |
| 5/2/2015 | 15:34:15 | 55.12 | 51.72 | 6 | 3.14 | 0.49 | 0.3 |
| 5/2/2015 | 15:34:20 | 55.45 | 52.05 | 29 | 3.97 | 0.47 | 1.6 |
| 5/2/2015 | 15:34:42 | 55.77 | 52.37 | 32 | 3.03 | 0.49 | 1.7 |
| 5/2/2015 | 15:35:15 | 56.10 | 52.70 | 9 | 2.67 | 0.40 | 0.5 |
| 5/2/2015 | 15:35:20 | 56.43 | 53.03 | 84 | 2.92 | 0.50 | 4.6 |
| 5/2/2015 | 15:36:44 | 56.76 | 53.36 | 64 | 3.83 | 0.48 | 3.5 |
| 5/2/2015 | 15:37:09 | 57.09 | 53.69 | 35 | 3.27 | 0.48 | 1.9 |
| 5/2/2015 | 15:37:16 | 57.41 | 54.01 | 43 | 2.62 | 0.49 | 2.4 |
| 5/2/2015 | 15:37:24 | 57.74 | 54.34 | 46 | 2.95 | 0.50 | 2.5 |
| 5/2/2015 | 15:37:32 | 58.07 | 54.67 | 46 | 2.69 | 0.48 | 2.5 |
| 5/2/2015 | 15:37:40 | 58.40 | 55.00 | 40 | 2.71 | 0.49 | 2.2 |
| 5/2/2015 | 15:37:41 | 58.46 | 55.06 | 43 | 2.95 | 0.49 | 2.4 |

## P53 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:25:30

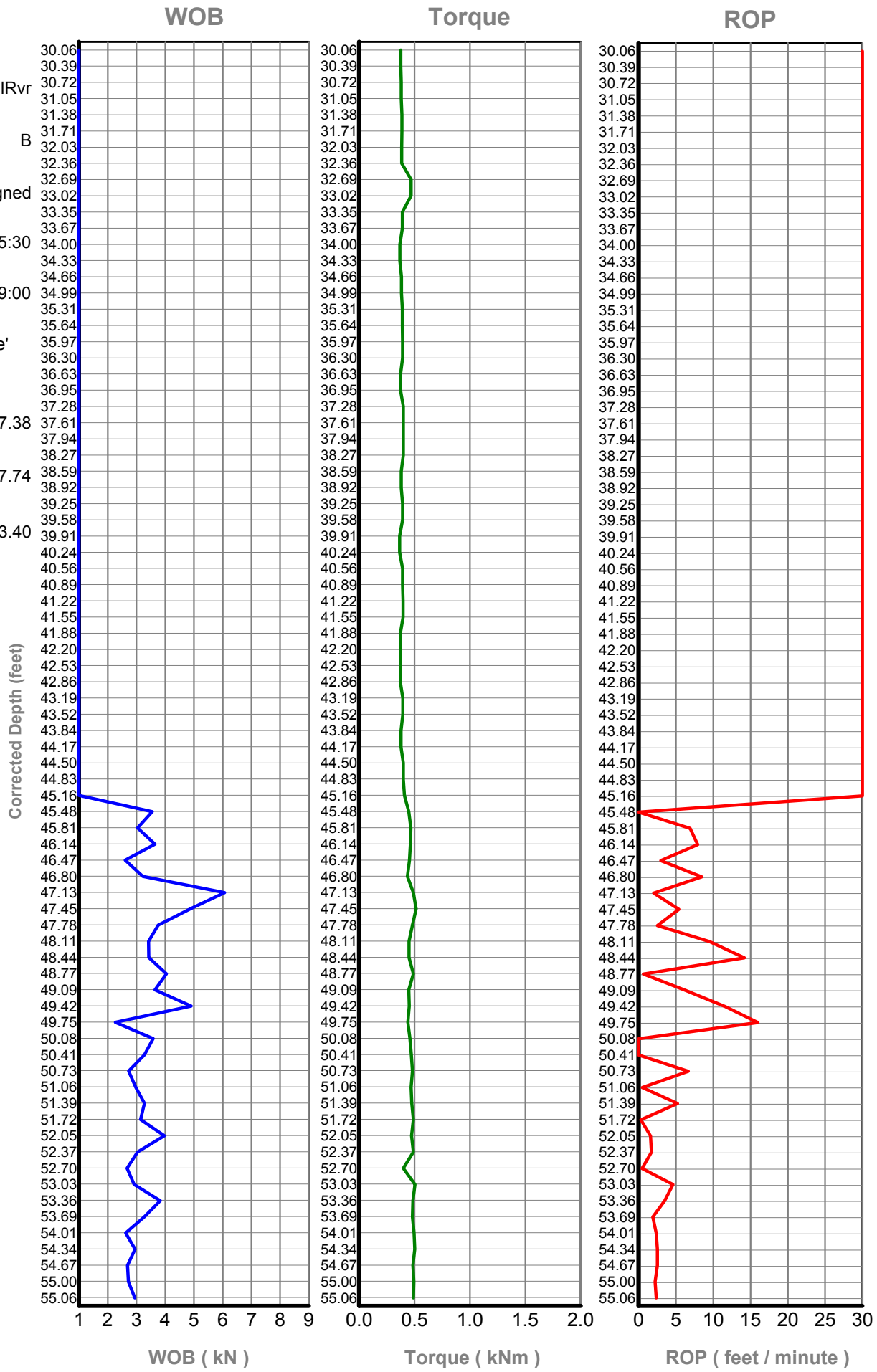
**End Date:**
5/2/2015 15:39:00

**Operator Note:**
'3.4 3.5 b Auto Complete'

**Northing:**
349,777.38

**Easting:**
225,447.74

**Tide (feet):**
3.40



## Hole: P54 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:30:55 | 33.46 | 30.16 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/2/2015 15:30:56 | 33.79 | 30.49 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 15:30:56 | 34.12 | 30.82 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/2/2015 15:30:56 | 34.45 | 31.15 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 15:30:57 | 34.78 | 31.48 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 15:30:57 | 35.11 | 31.81 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 15:30:57 | 35.43 | 32.13 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 15:30:58 | 35.76 | 32.46 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 15:30:58 | 36.09 | 32.79 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 15:30:59 | 36.42 | 33.12 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:30:59 | 36.75 | 33.45 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:30:59 | 37.07 | 33.77 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 15:31:00 | 37.40 | 34.10 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 15:31:00 | 37.73 | 34.43 | 1,118 | 1.14 | 0.29 | 61.1 |
| 5/2/2015 15:31:00 | 38.06 | 34.76 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 15:31:01 | 38.39 | 35.09 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 15:31:01 | 38.71 | 35.41 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:01 | 39.04 | 35.74 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 15:31:02 | 39.37 | 36.07 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 15:31:02 | 39.70 | 36.40 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:02 | 40.03 | 36.73 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:02 | 40.35 | 37.05 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:03 | 40.68 | 37.38 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:03 | 41.01 | 37.71 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:03 | 41.34 | 38.04 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:04 | 41.67 | 38.37 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:04 | 41.99 | 38.69 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 15:31:04 | 42.32 | 39.02 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 15:31:05 | 42.65 | 39.35 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 15:31:05 | 42.98 | 39.68 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:05 | 43.31 | 40.01 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:06 | 43.64 | 40.34 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:06 | 43.96 | 40.66 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 15:31:06 | 44.29 | 40.99 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 15:31:07 | 44.62 | 41.32 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 15:31:07 | 44.95 | 41.65 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:07 | 45.28 | 41.98 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 15:31:07 | 45.60 | 42.30 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 15:31:08 | 45.93 | 42.63 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 15:31:08 | 46.26 | 42.96 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 15:31:08 | 46.59 | 43.29 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 15:31:09 | 46.92 | 43.62 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 15:31:24 | 47.24 | 43.94 | 76 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 15:31:32 | 47.57 | 44.27 | 44 | 1.14 | 0.29 | 2.4 |
| 5/2/2015 15:31:42 | 47.90 | 44.60 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 15:31:51 | 48.23 | 44.93 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 15:32:01 | 48.54 | 45.24 | 36 | 1.14 | 0.29 | 1.9 |

## P54 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:29:49

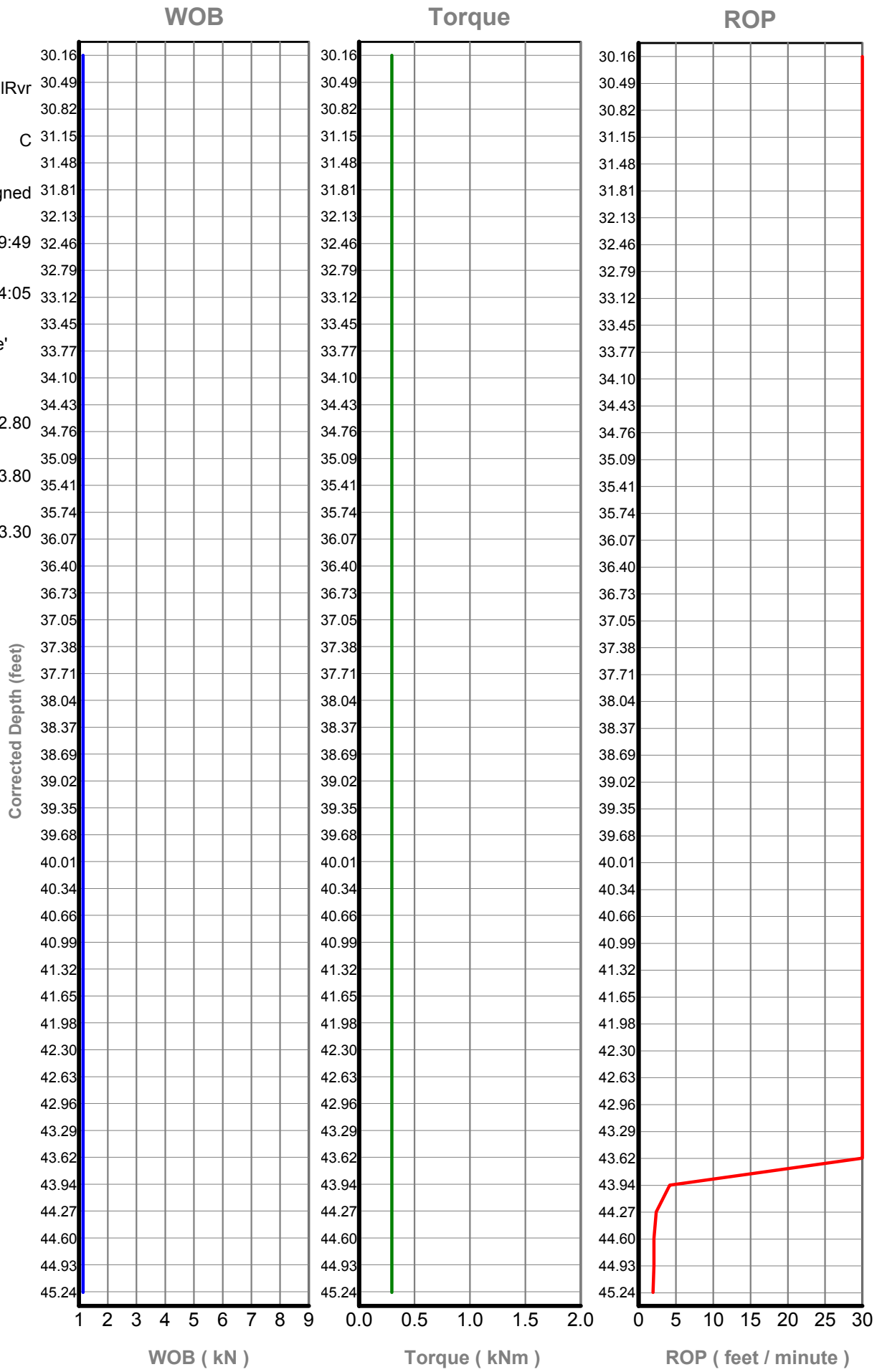
**End Date:**
5/2/2015 15:34:05

**Operator Note:**
'3.3 3.5 c Auto Complete'

**Northing:**
349,812.80

**Easting:**
225,513.80

**Tide (feet):**
3.30



## Hole: P55 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:13:33 | 34.78 | 30.08 | 859 | 0.54 | 0.17 | 47.0 |
| 5/2/2015 14:13:33 | 35.11 | 30.41 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:34 | 35.43 | 30.73 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:34 | 35.76 | 31.06 | 854 | 0.54 | 0.17 | 46.7 |
| 5/2/2015 14:13:34 | 36.09 | 31.39 | 842 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:35 | 36.42 | 31.72 | 842 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:35 | 36.75 | 32.05 | 852 | 0.54 | 0.17 | 46.6 |
| 5/2/2015 14:13:36 | 37.07 | 32.37 | 839 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 14:13:36 | 37.40 | 32.70 | 839 | 0.54 | 0.17 | 45.9 |
| 5/2/2015 14:13:36 | 37.73 | 33.03 | 851 | 0.54 | 0.17 | 46.6 |
| 5/2/2015 14:13:37 | 38.06 | 33.36 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:37 | 38.39 | 33.69 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:38 | 38.71 | 34.01 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:38 | 39.04 | 34.34 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:38 | 39.37 | 34.67 | 856 | 0.54 | 0.17 | 46.8 |
| 5/2/2015 14:13:39 | 39.70 | 35.00 | 854 | 0.54 | 0.17 | 46.7 |
| 5/2/2015 14:13:39 | 40.03 | 35.33 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:40 | 40.35 | 35.65 | 872 | 0.54 | 0.17 | 47.7 |
| 5/2/2015 14:13:40 | 40.68 | 35.98 | 872 | 0.54 | 0.17 | 47.7 |
| 5/2/2015 14:13:40 | 41.01 | 36.31 | 863 | 0.54 | 0.17 | 47.2 |
| 5/2/2015 14:13:41 | 41.34 | 36.64 | 850 | 0.54 | 0.17 | 46.5 |
| 5/2/2015 14:13:41 | 41.67 | 36.97 | 850 | 0.54 | 0.17 | 46.5 |
| 5/2/2015 14:13:42 | 41.99 | 37.29 | 850 | 0.54 | 0.17 | 46.5 |
| 5/2/2015 14:13:43 | 42.32 | 37.62 | 836 | 0.54 | 0.17 | 45.7 |
| 5/2/2015 14:13:43 | 42.65 | 37.95 | 836 | 0.54 | 0.17 | 45.7 |
| 5/2/2015 14:13:43 | 42.98 | 38.28 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 14:13:44 | 43.31 | 38.61 | 827 | 0.54 | 0.17 | 45.2 |
| 5/2/2015 14:13:44 | 43.64 | 38.94 | 838 | 0.54 | 0.17 | 45.8 |
| 5/2/2015 14:13:45 | 43.96 | 39.26 | 842 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 14:13:45 | 44.29 | 39.59 | 842 | 0.54 | 0.17 | 46.0 |
| 5/2/2015 14:13:45 | 44.62 | 39.92 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:46 | 44.95 | 40.25 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:46 | 45.28 | 40.58 | 858 | 0.54 | 0.17 | 46.9 |
| 5/2/2015 14:13:47 | 45.60 | 40.90 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:47 | 45.93 | 41.23 | 849 | 0.54 | 0.17 | 46.4 |
| 5/2/2015 14:13:47 | 46.26 | 41.56 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:48 | 46.59 | 41.89 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:48 | 46.92 | 42.22 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:49 | 47.24 | 42.54 | 846 | 0.54 | 0.17 | 46.3 |
| 5/2/2015 14:13:49 | 47.57 | 42.87 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:50 | 47.90 | 43.20 | 843 | 0.54 | 0.17 | 46.1 |
| 5/2/2015 14:13:58 | 48.23 | 43.53 | 32 | 0.54 | 0.17 | 1.8 |
| 5/2/2015 14:14:01 | 48.56 | 43.86 | 107 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 14:14:03 | 48.88 | 44.18 | 176 | 0.54 | 0.17 | 9.6 |
| 5/2/2015 14:14:03 | 49.21 | 44.51 | 219 | 0.54 | 0.17 | 12.0 |
| 5/2/2015 14:14:12 | 49.54 | 44.84 | 15 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 14:14:17 | 49.87 | 45.17 | 81 | 0.54 | 0.17 | 4.4 |
| 5/2/2015 14:14:24 | 50.20 | 45.50 | 52 | 0.54 | 0.17 | 2.8 |
| 5/2/2015 14:14:31 | 50.53 | 45.83 | 51 | 0.54 | 0.17 | 2.8 |
| 5/2/2015 14:14:34 | 50.85 | 46.15 | 93 | 0.54 | 0.17 | 5.1 |
| 5/2/2015 14:14:37 | 51.18 | 46.48 | 117 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 14:14:45 | 51.51 | 46.81 | 36 | 0.54 | 0.17 | 2.0 |
| 5/2/2015 14:14:54 | 51.84 | 47.14 | 42 | 0.54 | 0.17 | 2.3 |
| 5/2/2015 14:15:03 | 52.17 | 47.47 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 14:15:13 | 52.49 | 47.79 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 14:15:17 | 52.61 | 47.91 | 38 | 0.54 | 0.17 | 2.1 |

## P55 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:12:01

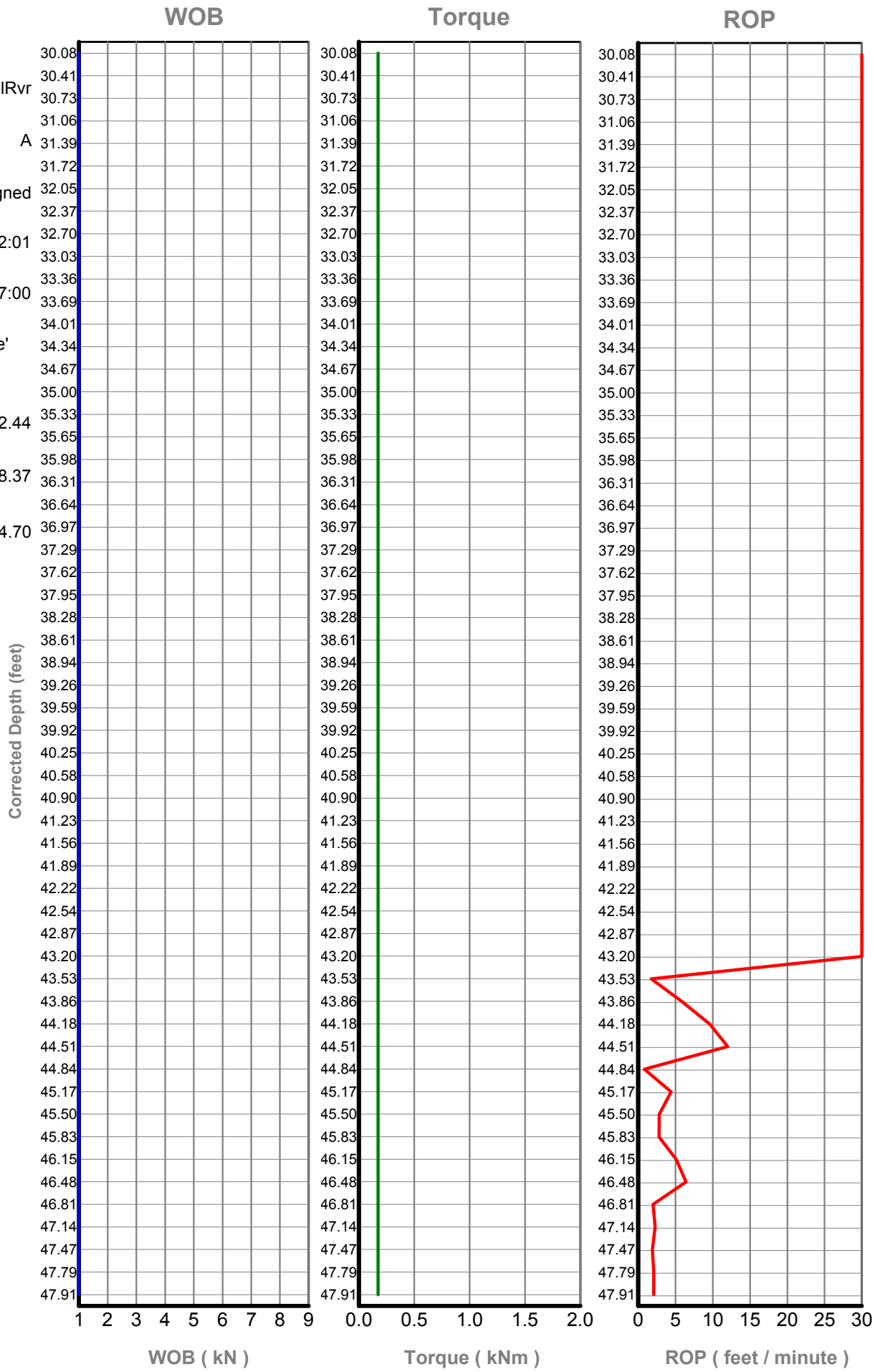
**End Date:**
5/2/2015 14:17:00

**Operator Note:**
'4.7 4.9 a Auto Complete'

**Northing:**
349,852.44

**Easting:**
225,568.37

**Tide (feet):**
4.70



## Hole: P56 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:13:06 | 34.78 | 30.08 | 1,292 | 0.30 | 0.38 | 70.7 |
| 5/2/2015 14:13:06 | 35.11 | 30.41 | 1,292 | 0.30 | 0.38 | 70.7 |
| 5/2/2015 14:13:06 | 35.43 | 30.73 | 1,292 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 14:13:07 | 35.76 | 31.06 | 1,292 | 0.30 | 0.40 | 70.7 |
| 5/2/2015 14:13:07 | 36.09 | 31.39 | 1,306 | 0.30 | 0.45 | 71.4 |
| 5/2/2015 14:13:07 | 36.42 | 31.72 | 1,306 | 0.30 | 0.45 | 71.4 |
| 5/2/2015 14:13:07 | 36.75 | 32.05 | 1,289 | 0.30 | 0.38 | 70.5 |
| 5/2/2015 14:13:08 | 37.07 | 32.37 | 1,289 | 0.30 | 0.38 | 70.5 |
| 5/2/2015 14:13:08 | 37.40 | 32.70 | 1,294 | 0.29 | 0.39 | 70.8 |
| 5/2/2015 14:13:09 | 37.73 | 33.03 | 1,294 | 0.29 | 0.39 | 70.8 |
| 5/2/2015 14:13:09 | 38.06 | 33.36 | 1,282 | 0.30 | 0.39 | 70.1 |
| 5/2/2015 14:13:09 | 38.39 | 33.69 | 1,282 | 0.30 | 0.39 | 70.1 |
| 5/2/2015 14:13:09 | 38.71 | 34.01 | 1,296 | 0.30 | 0.37 | 70.8 |
| 5/2/2015 14:13:10 | 39.04 | 34.34 | 1,255 | 0.29 | 0.39 | 68.6 |
| 5/2/2015 14:13:10 | 39.37 | 34.67 | 1,255 | 0.29 | 0.39 | 68.6 |
| 5/2/2015 14:13:10 | 39.70 | 35.00 | 1,255 | 0.07 | 0.38 | 68.6 |
| 5/2/2015 14:13:11 | 40.03 | 35.33 | 1,255 | 0.07 | 0.38 | 68.6 |
| 5/2/2015 14:13:11 | 40.35 | 35.65 | 1,284 | 0.28 | 0.38 | 70.2 |
| 5/2/2015 14:13:11 | 40.68 | 35.98 | 1,284 | 0.28 | 0.38 | 70.2 |
| 5/2/2015 14:13:11 | 41.01 | 36.31 | 1,274 | 0.28 | 0.37 | 69.7 |
| 5/2/2015 14:13:12 | 41.34 | 36.64 | 1,274 | 0.28 | 0.37 | 69.7 |
| 5/2/2015 14:13:12 | 41.67 | 36.97 | 1,274 | 0.27 | 0.38 | 69.7 |
| 5/2/2015 14:13:12 | 41.99 | 37.29 | 1,274 | 0.27 | 0.38 | 69.7 |
| 5/2/2015 14:13:12 | 42.32 | 37.62 | 1,299 | 0.27 | 0.37 | 71.0 |
| 5/2/2015 14:13:13 | 42.65 | 37.95 | 1,299 | 0.27 | 0.37 | 71.0 |
| 5/2/2015 14:13:13 | 42.98 | 38.28 | 1,291 | 0.28 | 0.38 | 70.6 |
| 5/2/2015 14:13:13 | 43.31 | 38.61 | 1,291 | 0.28 | 0.38 | 70.6 |
| 5/2/2015 14:13:13 | 43.64 | 38.94 | 1,321 | 0.27 | 0.38 | 72.3 |
| 5/2/2015 14:13:14 | 43.96 | 39.26 | 1,321 | 0.27 | 0.38 | 72.3 |
| 5/2/2015 14:13:14 | 44.29 | 39.59 | 1,280 | 0.28 | 0.38 | 70.0 |
| 5/2/2015 14:13:14 | 44.62 | 39.92 | 1,280 | 0.28 | 0.38 | 70.0 |
| 5/2/2015 14:13:14 | 44.95 | 40.25 | 1,308 | 0.27 | 0.39 | 71.5 |
| 5/2/2015 14:13:15 | 45.28 | 40.58 | 1,308 | 0.27 | 0.39 | 71.5 |
| 5/2/2015 14:13:15 | 45.60 | 40.90 | 1,304 | 0.28 | 0.41 | 71.3 |
| 5/2/2015 14:13:15 | 45.93 | 41.23 | 1,304 | 0.28 | 0.41 | 71.3 |
| 5/2/2015 14:13:15 | 46.26 | 41.56 | 1,304 | 0.30 | 0.37 | 71.3 |
| 5/2/2015 14:13:16 | 46.59 | 41.89 | 1,304 | 0.28 | 0.38 | 71.3 |
| 5/2/2015 14:13:16 | 46.92 | 42.22 | 1,304 | 0.28 | 0.38 | 71.3 |
| 5/2/2015 14:13:16 | 47.24 | 42.54 | 1,302 | 0.31 | 0.39 | 71.2 |
| 5/2/2015 14:13:17 | 47.57 | 42.87 | 1,302 | 0.31 | 0.39 | 71.2 |
| 5/2/2015 14:13:17 | 47.90 | 43.20 | 1,302 | 0.29 | 0.38 | 71.2 |
| 5/2/2015 14:13:17 | 48.23 | 43.53 | 1,302 | 0.29 | 0.38 | 71.2 |
| 5/2/2015 14:13:17 | 48.56 | 43.86 | 1,337 | 0.27 | 0.37 | 73.1 |
| 5/2/2015 14:13:18 | 48.88 | 44.18 | 1,337 | 0.27 | 0.37 | 73.1 |
| 5/2/2015 14:13:18 | 49.21 | 44.51 | 1,328 | 0.28 | 0.37 | 72.6 |
| 5/2/2015 14:13:19 | 49.54 | 44.84 | 1,328 | 0.28 | 0.37 | 72.6 |
| 5/2/2015 14:13:19 | 49.87 | 45.17 | 1,317 | 0.28 | 0.36 | 72.0 |
| 5/2/2015 14:13:19 | 50.20 | 45.50 | 1,317 | 0.28 | 0.36 | 72.0 |
| 5/2/2015 14:13:19 | 50.53 | 45.83 | 1,310 | 0.28 | 0.38 | 71.7 |
| 5/2/2015 14:13:20 | 50.85 | 46.15 | 1,310 | 0.28 | 0.38 | 71.7 |
| 5/2/2015 14:13:33 | 51.18 | 46.48 | 0 | 4.15 | 0.44 | 0.0 |
| 5/2/2015 14:13:36 | 51.51 | 46.81 | 129 | 2.60 | 0.46 | 7.0 |
| 5/2/2015 14:13:37 | 51.84 | 47.14 | 175 | 3.88 | 0.49 | 9.6 |
| 5/2/2015 14:13:40 | 52.17 | 47.47 | 131 | 2.82 | 0.43 | 7.1 |
| 5/2/2015 14:13:40 | 52.49 | 47.79 | 226 | 2.27 | 0.43 | 12.4 |
| 5/2/2015 14:13:41 | 52.82 | 48.12 | 353 | 2.10 | 0.43 | 19.3 |
| 5/2/2015 14:13:41 | 53.15 | 48.45 | 353 | 2.10 | 0.43 | 19.3 |
| 5/2/2015 14:13:41 | 53.48 | 48.78 | 529 | 2.38 | 0.42 | 28.9 |
| 5/2/2015 14:13:42 | 53.81 | 49.11 | 699 | 2.27 | 0.43 | 38.2 |
| 5/2/2015 14:13:42 | 54.13 | 49.43 | 802 | 1.89 | 0.42 | 43.8 |
| 5/2/2015 14:13:43 | 54.46 | 49.76 | 854 | 1.95 | 0.43 | 46.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:13:43 | 54.79 | 50.09 | 854 | 1.95 | 0.43 | 46.7 |
| 5/2/2015 | 14:13:44 | 55.12 | 50.42 | 610 | 1.64 | 0.38 | 33.4 |
| 5/2/2015 | 14:13:45 | 55.45 | 50.75 | 474 | 1.96 | 0.43 | 25.9 |
| 5/2/2015 | 14:13:45 | 55.77 | 51.07 | 474 | 1.95 | 0.43 | 25.9 |
| 5/2/2015 | 14:13:46 | 56.10 | 51.40 | 445 | 2.19 | 0.45 | 24.3 |
| 5/2/2015 | 14:13:51 | 56.43 | 51.73 | 65 | 2.88 | 0.48 | 3.5 |
| 5/2/2015 | 14:13:57 | 56.76 | 52.06 | 44 | 2.71 | 0.49 | 2.4 |
| 5/2/2015 | 14:14:05 | 57.09 | 52.39 | 43 | 2.57 | 0.49 | 2.4 |
| 5/2/2015 | 14:14:13 | 57.41 | 52.71 | 50 | 3.06 | 0.48 | 2.7 |
| 5/2/2015 | 14:14:20 | 57.71 | 53.01 | 40 | 2.46 | 0.48 | 2.2 |

## P56 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:11:22

**End Date:**
5/2/2015 14:16:52

**Operator Note:**
'4.7 4.9 b Rock'

**Northing:**
349,892.29

**Easting:**
225,632.67

**Tide (feet):**
4.70



## Hole: P57 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:12:31 | 34.78 | 30.08 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:31 | 35.11 | 30.41 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 14:12:32 | 35.43 | 30.73 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:32 | 35.76 | 31.06 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:32 | 36.09 | 31.39 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 14:12:33 | 36.42 | 31.72 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 14:12:33 | 36.75 | 32.05 | 1,113 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 14:12:33 | 37.07 | 32.37 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:34 | 37.40 | 32.70 | 1,111 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:34 | 37.73 | 33.03 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/2/2015 14:12:34 | 38.06 | 33.36 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 14:12:35 | 38.39 | 33.69 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 14:12:35 | 38.71 | 34.01 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 14:12:35 | 39.04 | 34.34 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 14:12:35 | 39.37 | 34.67 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 14:12:36 | 39.70 | 35.00 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 14:12:36 | 40.03 | 35.33 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 14:12:36 | 40.35 | 35.65 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/2/2015 14:12:37 | 40.68 | 35.98 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 14:12:37 | 41.01 | 36.31 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/2/2015 14:12:37 | 41.34 | 36.64 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:38 | 41.67 | 36.97 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/2/2015 14:12:38 | 41.99 | 37.29 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 14:12:39 | 42.32 | 37.62 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 14:12:39 | 42.65 | 37.95 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 14:12:39 | 42.98 | 38.28 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 14:12:40 | 43.31 | 38.61 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:12:40 | 43.64 | 38.94 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:12:40 | 43.96 | 39.26 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:12:41 | 44.29 | 39.59 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:12:41 | 44.62 | 39.92 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 14:12:41 | 44.95 | 40.25 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 14:12:42 | 45.28 | 40.58 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 14:12:42 | 45.60 | 40.90 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/2/2015 14:12:42 | 45.93 | 41.23 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 14:12:43 | 46.26 | 41.56 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 14:12:43 | 46.59 | 41.89 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 14:12:43 | 46.92 | 42.22 | 1,093 | 1.14 | 0.29 | 59.7 |
| 5/2/2015 14:12:43 | 47.24 | 42.54 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 14:12:44 | 47.57 | 42.87 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 14:12:44 | 47.90 | 43.20 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/2/2015 14:12:44 | 48.23 | 43.53 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/2/2015 14:12:45 | 48.56 | 43.86 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 14:12:45 | 48.88 | 44.18 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 14:12:45 | 49.21 | 44.51 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 14:12:46 | 49.54 | 44.84 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 14:13:01 | 49.87 | 45.17 | 7 | 1.14 | 0.29 | 0.4 |
| 5/2/2015 14:13:03 | 50.20 | 45.50 | 76 | 1.14 | 0.29 | 4.2 |
| 5/2/2015 14:13:03 | 50.53 | 45.83 | 147 | 1.14 | 0.29 | 8.0 |
| 5/2/2015 14:13:04 | 50.85 | 46.15 | 284 | 1.14 | 0.29 | 15.5 |
| 5/2/2015 14:13:04 | 51.18 | 46.48 | 284 | 1.14 | 0.29 | 15.5 |
| 5/2/2015 14:13:05 | 51.51 | 46.81 | 436 | 1.14 | 0.29 | 23.8 |
| 5/2/2015 14:13:05 | 51.84 | 47.14 | 580 | 1.14 | 0.29 | 31.7 |
| 5/2/2015 14:13:06 | 52.17 | 47.47 | 654 | 1.14 | 0.29 | 35.8 |
| 5/2/2015 14:13:06 | 52.49 | 47.79 | 729 | 1.14 | 0.29 | 39.9 |
| 5/2/2015 14:13:07 | 52.82 | 48.12 | 729 | 1.14 | 0.29 | 39.9 |
| 5/2/2015 14:13:07 | 53.15 | 48.45 | 732 | 1.14 | 0.29 | 40.1 |
| 5/2/2015 14:13:08 | 53.48 | 48.78 | 721 | 1.14 | 0.29 | 39.4 |
| 5/2/2015 14:13:08 | 53.81 | 49.11 | 721 | 1.14 | 0.29 | 39.4 |
| 5/2/2015 14:13:09 | 54.13 | 49.43 | 718 | 1.14 | 0.29 | 39.3 |
| 5/2/2015 14:13:09 | 54.46 | 49.76 | 718 | 1.14 | 0.29 | 39.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:13:10 | 54.79 | 50.09 | 715 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 14:13:10 | 55.12 | 50.42 | 721 | 1.14 | 0.29 | 39.5 |
| 5/2/2015 | 14:13:15 | 55.45 | 50.75 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 14:13:16 | 55.77 | 51.07 | 71 | 1.14 | 0.29 | 3.9 |
| 5/2/2015 | 14:13:16 | 56.10 | 51.40 | 219 | 1.14 | 0.29 | 12.0 |
| 5/2/2015 | 14:13:17 | 56.43 | 51.73 | 375 | 1.14 | 0.29 | 20.5 |
| 5/2/2015 | 14:13:17 | 56.76 | 52.06 | 522 | 1.14 | 0.29 | 28.6 |
| 5/2/2015 | 14:13:18 | 57.09 | 52.39 | 625 | 1.14 | 0.29 | 34.2 |
| 5/2/2015 | 14:13:19 | 57.41 | 52.71 | 443 | 1.14 | 0.29 | 24.2 |
| 5/2/2015 | 14:13:20 | 57.74 | 53.04 | 346 | 1.14 | 0.29 | 18.9 |
| 5/2/2015 | 14:13:21 | 58.07 | 53.37 | 360 | 1.14 | 0.29 | 19.7 |
| 5/2/2015 | 14:13:22 | 58.40 | 53.70 | 378 | 1.14 | 0.29 | 20.7 |
| 5/2/2015 | 14:13:23 | 58.73 | 54.03 | 404 | 1.14 | 0.29 | 22.1 |
| 5/2/2015 | 14:13:23 | 59.06 | 54.36 | 442 | 1.14 | 0.29 | 24.2 |
| 5/2/2015 | 14:13:24 | 59.38 | 54.68 | 457 | 1.14 | 0.29 | 25.0 |
| 5/2/2015 | 14:13:25 | 59.71 | 55.01 | 543 | 1.14 | 0.29 | 29.7 |
| 5/2/2015 | 14:13:26 | 60.04 | 55.34 | 543 | 1.14 | 0.29 | 29.7 |
| 5/2/2015 | 14:13:26 | 60.37 | 55.67 | 601 | 1.14 | 0.29 | 32.8 |
| 5/2/2015 | 14:13:26 | 60.70 | 56.00 | 645 | 1.14 | 0.29 | 35.3 |

## P57 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 14:11:21

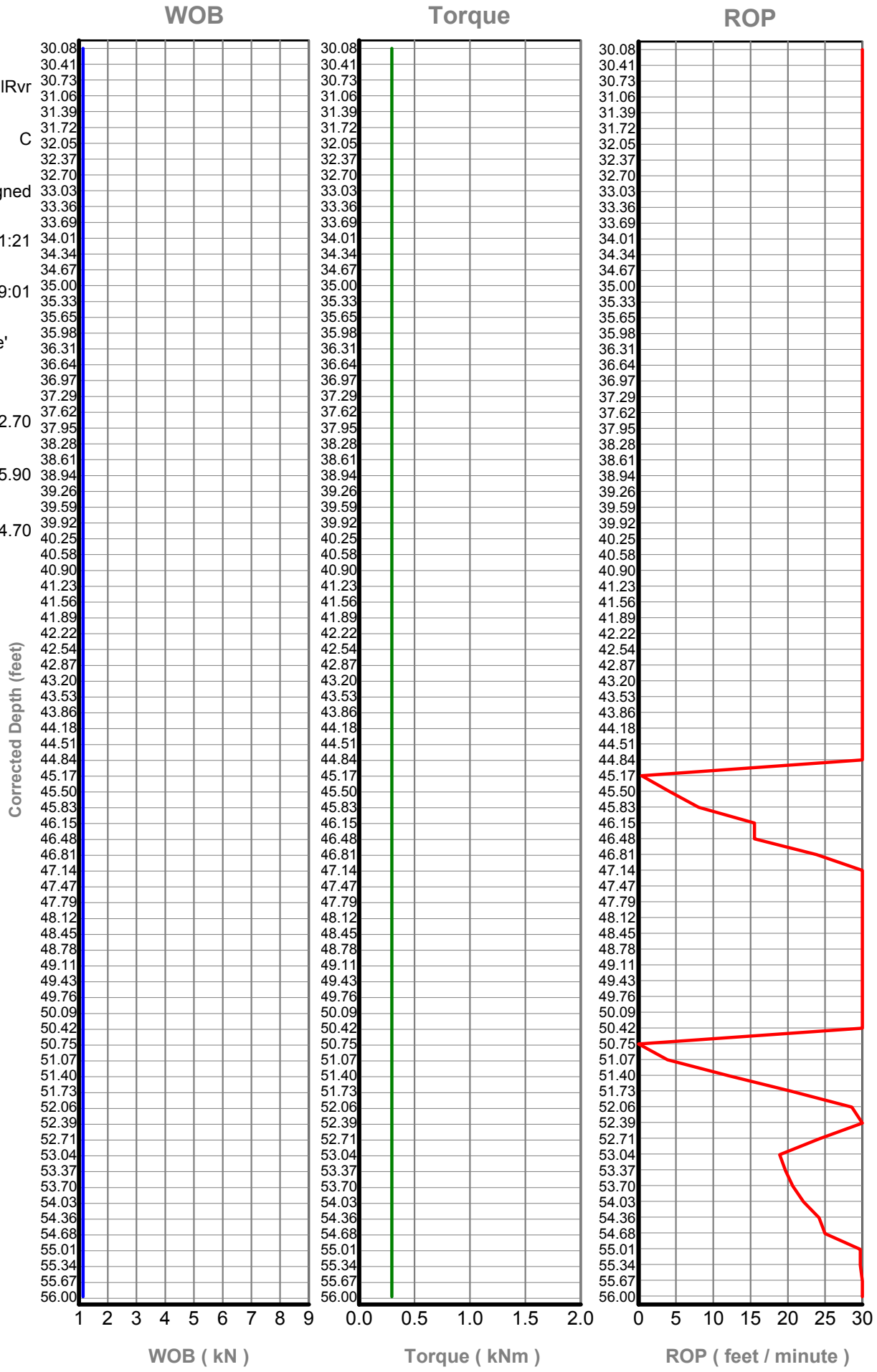
**End Date:**
5/2/2015 14:19:01

**Operator Note:**
'4.7 4.9 c Auto Complete'

**Northing:**
349,932.70

**Easting:**
225,695.90

**Tide (feet):**
4.70



## Hole: P58 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:09:23 | 36.75 | 30.05 | 1,129 | 1.73 | 0.25 | 61.7 |
| 5/4/2015 1:09:24 | 37.07 | 30.37 | 1,129 | 1.73 | 0.25 | 61.7 |
| 5/4/2015 1:09:24 | 37.40 | 30.70 | 1,138 | 1.77 | 0.25 | 62.2 |
| 5/4/2015 1:09:25 | 37.73 | 31.03 | 1,168 | 1.74 | 0.25 | 63.9 |
| 5/4/2015 1:09:25 | 38.06 | 31.36 | 1,168 | 1.74 | 0.25 | 63.9 |
| 5/4/2015 1:09:25 | 38.39 | 31.69 | 1,156 | 1.74 | 0.25 | 63.2 |
| 5/4/2015 1:09:26 | 38.71 | 32.01 | 1,156 | 1.74 | 0.25 | 63.2 |
| 5/4/2015 1:09:26 | 39.04 | 32.34 | 1,159 | 1.74 | 0.25 | 63.4 |
| 5/4/2015 1:09:26 | 39.37 | 32.67 | 1,156 | 1.77 | 0.25 | 63.2 |
| 5/4/2015 1:09:27 | 39.70 | 33.00 | 1,156 | 1.77 | 0.25 | 63.2 |
| 5/4/2015 1:09:27 | 40.03 | 33.33 | 1,159 | 1.74 | 0.25 | 63.4 |
| 5/4/2015 1:09:27 | 40.35 | 33.65 | 1,159 | 1.74 | 0.25 | 63.4 |
| 5/4/2015 1:09:27 | 40.68 | 33.98 | 1,153 | 1.74 | 0.25 | 63.1 |
| 5/4/2015 1:09:28 | 41.01 | 34.31 | 1,132 | 1.75 | 0.25 | 61.9 |
| 5/4/2015 1:09:28 | 41.34 | 34.64 | 1,132 | 1.75 | 0.25 | 61.9 |
| 5/4/2015 1:09:28 | 41.67 | 34.97 | 1,132 | 1.73 | 0.25 | 61.9 |
| 5/4/2015 1:09:29 | 41.99 | 35.29 | 1,132 | 1.73 | 0.25 | 61.9 |
| 5/4/2015 1:09:29 | 42.32 | 35.62 | 1,140 | 1.76 | 0.25 | 62.3 |
| 5/4/2015 1:09:29 | 42.65 | 35.95 | 1,140 | 1.76 | 0.25 | 62.3 |
| 5/4/2015 1:09:29 | 42.98 | 36.28 | 1,140 | 1.75 | 0.25 | 62.3 |
| 5/4/2015 1:09:30 | 43.31 | 36.61 | 1,140 | 1.74 | 0.25 | 62.4 |
| 5/4/2015 1:09:30 | 43.64 | 36.94 | 1,140 | 1.74 | 0.25 | 62.4 |
| 5/4/2015 1:09:30 | 43.96 | 37.26 | 1,137 | 1.73 | 0.24 | 62.2 |
| 5/4/2015 1:09:31 | 44.29 | 37.59 | 1,137 | 1.73 | 0.24 | 62.2 |
| 5/4/2015 1:09:31 | 44.62 | 37.92 | 1,158 | 1.73 | 0.25 | 63.3 |
| 5/4/2015 1:09:31 | 44.95 | 38.25 | 1,150 | 1.74 | 0.24 | 62.9 |
| 5/4/2015 1:09:32 | 45.28 | 38.58 | 1,150 | 1.74 | 0.24 | 62.9 |
| 5/4/2015 1:09:32 | 45.60 | 38.90 | 1,150 | 1.76 | 0.24 | 62.9 |
| 5/4/2015 1:09:32 | 45.93 | 39.23 | 1,150 | 1.76 | 0.24 | 62.9 |
| 5/4/2015 1:09:32 | 46.26 | 39.56 | 1,143 | 1.74 | 0.25 | 62.5 |
| 5/4/2015 1:09:33 | 46.59 | 39.89 | 1,143 | 1.74 | 0.25 | 62.5 |
| 5/4/2015 1:09:33 | 46.92 | 40.22 | 1,143 | 1.74 | 0.25 | 62.5 |
| 5/4/2015 1:09:33 | 47.24 | 40.54 | 1,151 | 1.74 | 0.24 | 62.9 |
| 5/4/2015 1:09:34 | 47.57 | 40.87 | 1,151 | 1.74 | 0.24 | 62.9 |
| 5/4/2015 1:09:34 | 47.90 | 41.20 | 1,148 | 1.75 | 0.25 | 62.8 |
| 5/4/2015 1:09:35 | 48.23 | 41.53 | 1,135 | 1.76 | 0.25 | 62.1 |
| 5/4/2015 1:09:35 | 48.56 | 41.86 | 1,135 | 1.76 | 0.25 | 62.1 |
| 5/4/2015 1:09:35 | 48.88 | 42.18 | 1,152 | 1.74 | 0.24 | 63.0 |
| 5/4/2015 1:09:36 | 49.21 | 42.51 | 1,152 | 1.74 | 0.24 | 63.0 |
| 5/4/2015 1:09:48 | 49.54 | 42.84 | 0 | 2.04 | 0.75 | 0.0 |
| 5/4/2015 1:09:48 | 49.87 | 43.17 | 108 | 2.31 | 1.77 | 5.9 |
| 5/4/2015 1:09:49 | 50.20 | 43.50 | 108 | 2.31 | 1.77 | 5.9 |
| 5/4/2015 1:09:53 | 50.53 | 43.83 | 9 | 3.09 | 1.59 | 0.5 |
| 5/4/2015 1:09:54 | 50.85 | 44.15 | 81 | 2.79 | 1.42 | 4.4 |
| 5/4/2015 1:09:56 | 51.18 | 44.48 | 230 | 2.87 | 1.61 | 12.6 |
| 5/4/2015 1:09:59 | 51.51 | 44.81 | 201 | 3.12 | 1.33 | 11.0 |
| 5/4/2015 1:10:03 | 51.84 | 45.14 | 97 | 2.79 | 1.54 | 5.3 |
| 5/4/2015 1:10:06 | 52.17 | 45.47 | 196 | 2.52 | 1.71 | 10.7 |
| 5/4/2015 1:10:08 | 52.49 | 45.79 | 161 | 2.89 | 1.65 | 8.8 |
| 5/4/2015 1:10:52 | 52.82 | 46.12 | 0 | 2.99 | 1.20 | 0.0 |
| 5/4/2015 1:11:02 | 53.15 | 46.45 | 109 | 2.92 | 1.32 | 6.0 |
| 5/4/2015 1:11:07 | 53.48 | 46.78 | 43 | 2.80 | 1.35 | 2.4 |
| 5/4/2015 1:11:10 | 53.81 | 47.11 | 133 | 2.57 | 1.20 | 7.2 |
| 5/4/2015 1:11:13 | 54.13 | 47.43 | 145 | 2.72 | 1.17 | 7.9 |
| 5/4/2015 1:11:16 | 54.46 | 47.76 | 122 | 2.82 | 1.30 | 6.6 |
| 5/4/2015 1:11:19 | 54.79 | 48.09 | 107 | 2.77 | 1.14 | 5.8 |
| 5/4/2015 1:11:22 | 55.12 | 48.42 | 118 | 2.74 | 1.14 | 6.5 |
| 5/4/2015 1:11:26 | 55.45 | 48.75 | 93 | 2.81 | 1.27 | 5.1 |
| 5/4/2015 1:11:30 | 55.77 | 49.07 | 104 | 2.74 | 1.26 | 5.7 |
| 5/4/2015 1:11:33 | 56.10 | 49.40 | 113 | 2.77 | 1.21 | 6.2 |
| 5/4/2015 1:11:37 | 56.43 | 49.73 | 84 | 2.75 | 1.32 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:11:42 | 56.76 | 50.06 | 74 | 2.82 | 1.26 | 4.0 |
| 5/4/2015 | 1:11:49 | 57.09 | 50.39 | 41 | 2.81 | 1.28 | 2.2 |
| 5/4/2015 | 1:11:59 | 57.41 | 50.71 | 32 | 2.86 | 1.18 | 1.7 |
| 5/4/2015 | 1:12:12 | 57.74 | 51.04 | 29 | 2.82 | 1.17 | 1.6 |
| 5/4/2015 | 1:12:18 | 57.89 | 51.19 | 26 | 2.85 | 1.12 | 1.4 |

## P58 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/4/2015 0:49:27

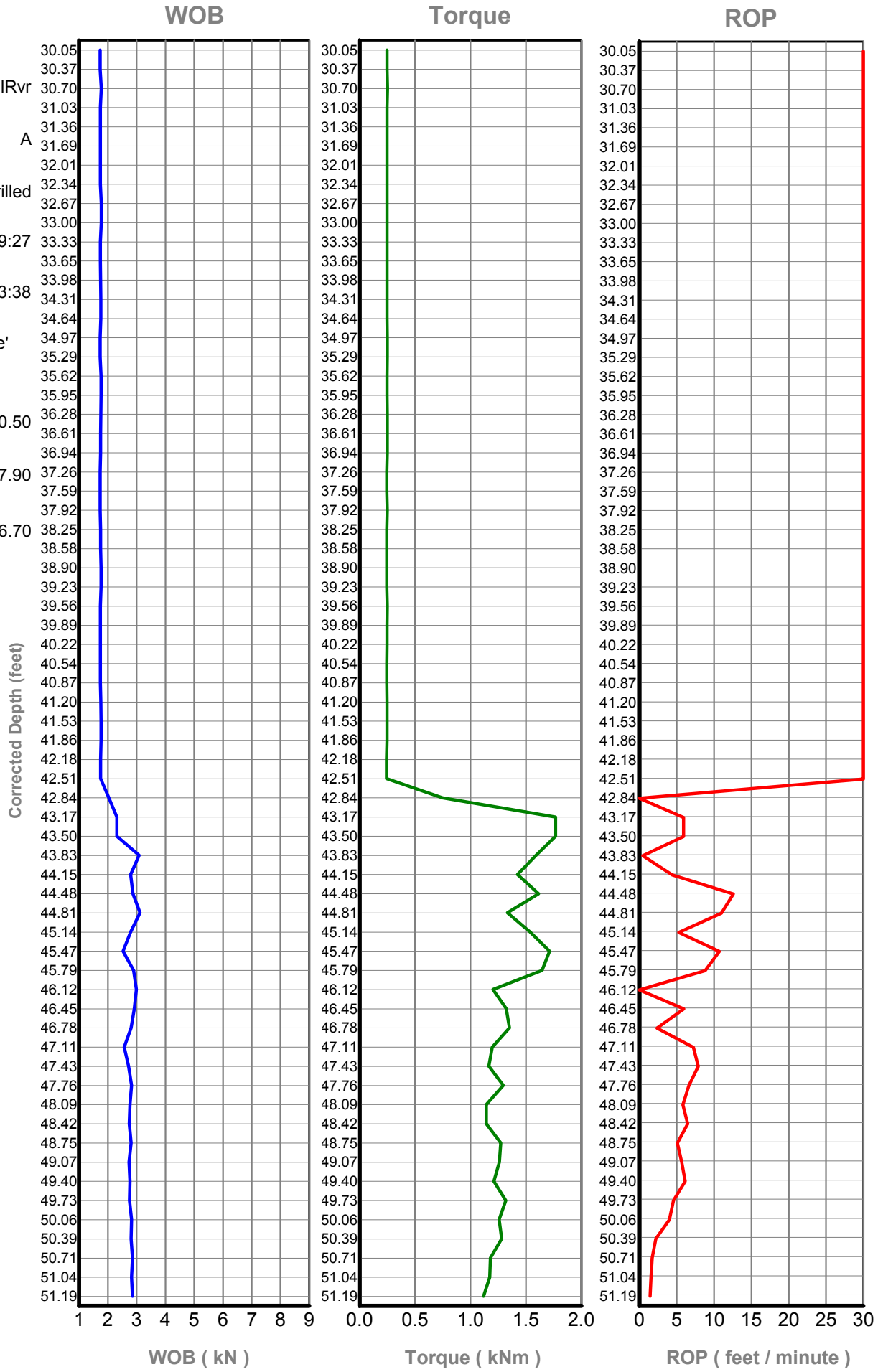
**End Date:**
5/4/2015 1:13:38

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
348,720.50

**Easting:**
223,897.90

**Tide (feet):**
6.70



## Hole: P59 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:10:03 | 36.75 | 30.05 | 1,263 | 0.29 | 0.37 | 69.1 |
| 5/4/2015 1:10:03 | 37.07 | 30.37 | 1,261 | 0.29 | 0.37 | 68.9 |
| 5/4/2015 1:10:04 | 37.40 | 30.70 | 1,261 | 0.29 | 0.37 | 68.9 |
| 5/4/2015 1:10:04 | 37.73 | 31.03 | 1,247 | 0.29 | 0.38 | 68.2 |
| 5/4/2015 1:10:04 | 38.06 | 31.36 | 1,247 | 0.29 | 0.38 | 68.2 |
| 5/4/2015 1:10:04 | 38.39 | 31.69 | 1,261 | 0.29 | 0.36 | 68.9 |
| 5/4/2015 1:10:05 | 38.71 | 32.01 | 1,261 | 0.29 | 0.36 | 68.9 |
| 5/4/2015 1:10:05 | 39.04 | 32.34 | 1,258 | 0.29 | 0.38 | 68.8 |
| 5/4/2015 1:10:05 | 39.37 | 32.67 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/4/2015 1:10:06 | 39.70 | 33.00 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/4/2015 1:10:06 | 40.03 | 33.33 | 1,263 | 0.29 | 0.37 | 69.1 |
| 5/4/2015 1:10:07 | 40.35 | 33.65 | 1,263 | 0.29 | 0.37 | 69.1 |
| 5/4/2015 1:10:07 | 40.68 | 33.98 | 1,269 | 0.30 | 0.37 | 69.4 |
| 5/4/2015 1:10:07 | 41.01 | 34.31 | 1,269 | 0.30 | 0.37 | 69.4 |
| 5/4/2015 1:10:07 | 41.34 | 34.64 | 1,263 | 0.30 | 0.38 | 69.1 |
| 5/4/2015 1:10:08 | 41.67 | 34.97 | 1,263 | 0.30 | 0.38 | 69.1 |
| 5/4/2015 1:10:08 | 41.99 | 35.29 | 1,263 | 0.31 | 0.37 | 69.1 |
| 5/4/2015 1:10:08 | 42.32 | 35.62 | 1,263 | 0.31 | 0.37 | 69.1 |
| 5/4/2015 1:10:08 | 42.65 | 35.95 | 1,254 | 0.29 | 0.38 | 68.6 |
| 5/4/2015 1:10:09 | 42.98 | 36.28 | 1,253 | 0.30 | 0.38 | 68.5 |
| 5/4/2015 1:10:09 | 43.31 | 36.61 | 1,253 | 0.30 | 0.38 | 68.5 |
| 5/4/2015 1:10:09 | 43.64 | 36.94 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/4/2015 1:10:10 | 43.96 | 37.26 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/4/2015 1:10:10 | 44.29 | 37.59 | 1,234 | 0.30 | 0.38 | 67.5 |
| 5/4/2015 1:10:10 | 44.62 | 37.92 | 1,234 | 0.30 | 0.38 | 67.5 |
| 5/4/2015 1:10:10 | 44.95 | 38.25 | 1,242 | 0.29 | 0.37 | 67.9 |
| 5/4/2015 1:10:11 | 45.28 | 38.58 | 1,242 | 0.29 | 0.37 | 67.9 |
| 5/4/2015 1:10:11 | 45.60 | 38.90 | 1,237 | 0.29 | 0.37 | 67.7 |
| 5/4/2015 1:10:11 | 45.93 | 39.23 | 1,237 | 0.29 | 0.37 | 67.7 |
| 5/4/2015 1:10:11 | 46.26 | 39.56 | 1,252 | 0.29 | 0.38 | 68.4 |
| 5/4/2015 1:10:12 | 46.59 | 39.89 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/4/2015 1:10:12 | 46.92 | 40.22 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/4/2015 1:10:12 | 47.24 | 40.54 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/4/2015 1:10:13 | 47.57 | 40.87 | 1,223 | 0.29 | 0.37 | 66.9 |
| 5/4/2015 1:10:13 | 47.90 | 41.20 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/4/2015 1:10:13 | 48.23 | 41.53 | 1,260 | 0.29 | 0.38 | 68.9 |
| 5/4/2015 1:10:13 | 48.56 | 41.86 | 1,216 | 0.29 | 0.38 | 66.5 |
| 5/4/2015 1:10:14 | 48.88 | 42.18 | 1,216 | 0.29 | 0.38 | 66.5 |
| 5/4/2015 1:10:14 | 49.21 | 42.51 | 1,216 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 1:10:14 | 49.54 | 42.84 | 1,216 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 1:10:14 | 49.87 | 43.17 | 1,231 | 0.02 | 0.38 | 67.3 |
| 5/4/2015 1:10:15 | 50.20 | 43.50 | 1,216 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 1:10:15 | 50.53 | 43.83 | 1,216 | 0.29 | 0.37 | 66.5 |
| 5/4/2015 1:10:15 | 50.85 | 44.15 | 1,216 | 0.29 | 0.41 | 66.5 |
| 5/4/2015 1:10:16 | 51.18 | 44.48 | 1,216 | 0.29 | 0.41 | 66.5 |
| 5/4/2015 1:10:21 | 51.51 | 44.81 | 88 | 4.12 | 0.43 | 4.8 |
| 5/4/2015 1:10:24 | 51.84 | 45.14 | 192 | 2.99 | 0.42 | 10.5 |
| 5/4/2015 1:10:25 | 52.17 | 45.47 | 242 | 4.80 | 0.45 | 13.2 |
| 5/4/2015 1:10:29 | 52.49 | 45.79 | 113 | 3.40 | 0.46 | 6.2 |
| 5/4/2015 1:10:31 | 52.82 | 46.12 | 142 | 3.06 | 0.46 | 7.8 |
| 5/4/2015 1:10:34 | 53.15 | 46.45 | 127 | 3.21 | 0.46 | 6.9 |
| 5/4/2015 1:10:37 | 53.48 | 46.78 | 110 | 3.26 | 0.46 | 6.0 |
| 5/4/2015 1:10:40 | 53.81 | 47.11 | 127 | 3.22 | 0.46 | 7.0 |
| 5/4/2015 1:10:46 | 54.13 | 47.43 | 86 | 2.84 | 0.46 | 4.7 |
| 5/4/2015 1:10:53 | 54.46 | 47.76 | 50 | 3.07 | 0.46 | 2.7 |
| 5/4/2015 1:10:56 | 54.79 | 48.09 | 106 | 3.35 | 0.46 | 5.8 |
| 5/4/2015 1:11:01 | 55.12 | 48.42 | 72 | 4.90 | 0.46 | 3.9 |
| 5/4/2015 1:11:46 | 55.45 | 48.75 | 61 | 3.80 | 0.46 | 3.4 |
| 5/4/2015 1:11:52 | 55.77 | 49.07 | 73 | 3.28 | 0.46 | 4.0 |
| 5/4/2015 1:11:58 | 56.10 | 49.40 | 66 | 3.12 | 0.46 | 3.6 |
| 5/4/2015 1:12:01 | 56.43 | 49.73 | 104 | 3.07 | 0.46 | 5.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:12:08 | 56.76 | 50.06 | 87 | 3.32 | 0.46 | 4.7 |
| 5/4/2015 | 1:12:15 | 57.09 | 50.39 | 66 | 3.09 | 0.46 | 3.6 |
| 5/4/2015 | 1:12:21 | 57.41 | 50.71 | 61 | 3.14 | 0.46 | 3.3 |
| 5/4/2015 | 1:12:26 | 57.74 | 51.04 | 75 | 3.24 | 0.46 | 4.1 |
| 5/4/2015 | 1:12:32 | 58.07 | 51.37 | 62 | 3.49 | 0.47 | 3.4 |
| 5/4/2015 | 1:12:38 | 58.40 | 51.70 | 66 | 3.60 | 0.46 | 3.6 |
| 5/4/2015 | 1:12:43 | 58.73 | 52.03 | 74 | 3.06 | 0.46 | 4.0 |
| 5/4/2015 | 1:12:49 | 59.06 | 52.36 | 63 | 3.28 | 0.46 | 3.4 |
| 5/4/2015 | 1:12:49 | 59.11 | 52.41 | 64 | 3.05 | 0.46 | 3.5 |

## P59 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:08:34

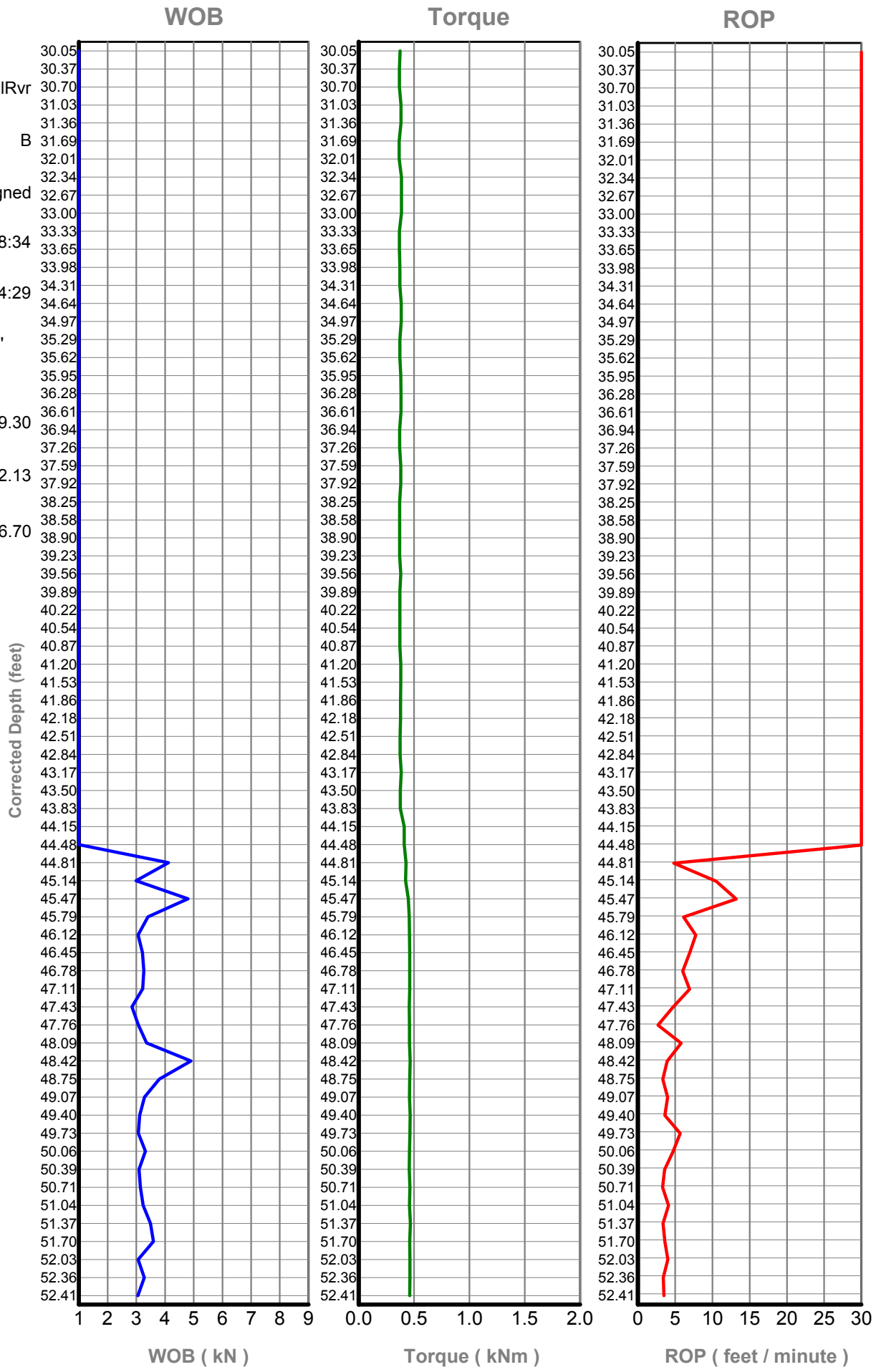
**End Date:**
5/4/2015 1:14:29

**Operator Note:**
'6.7 6.6b Auto Complete'

**Northing:**
348,759.30

**Easting:**
223,962.13

**Tide (feet):**
6.70



## Hole: P6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 5:29:16 | 32.48 | 30.18 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 5:29:16 | 32.81 | 30.51 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 5:29:16 | 33.14 | 30.84 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 5:29:17 | 33.46 | 31.16 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/3/2015 5:29:17 | 33.79 | 31.49 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 5:29:17 | 34.12 | 31.82 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:18 | 34.45 | 32.15 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:18 | 34.78 | 32.48 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 5:29:18 | 35.11 | 32.81 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:19 | 35.43 | 33.13 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:19 | 35.76 | 33.46 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 5:29:19 | 36.09 | 33.79 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 5:29:19 | 36.42 | 34.12 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:20 | 36.75 | 34.45 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:20 | 37.07 | 34.77 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 5:29:20 | 37.40 | 35.10 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:29:21 | 37.73 | 35.43 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:29:22 | 38.06 | 35.76 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:29:21 | 38.39 | 36.09 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/3/2015 5:29:22 | 38.71 | 36.41 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:29:23 | 39.04 | 36.74 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:29:23 | 39.37 | 37.07 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 5:29:23 | 39.70 | 37.40 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:29:24 | 40.03 | 37.73 | 1,071 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 5:29:24 | 40.35 | 38.05 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:29:24 | 40.68 | 38.38 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:29:25 | 41.01 | 38.71 | 1,071 | 1.14 | 0.29 | 58.6 |
| 5/3/2015 5:29:25 | 41.34 | 39.04 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:29:25 | 41.67 | 39.37 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:29:25 | 41.99 | 39.69 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/3/2015 5:29:26 | 42.32 | 40.02 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 5:29:26 | 42.65 | 40.35 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 5:29:26 | 42.98 | 40.68 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 5:29:27 | 43.31 | 41.01 | 1,067 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 5:29:44 | 43.64 | 41.34 | 9 | 1.14 | 0.29 | 0.5 |
| 5/3/2015 5:30:08 | 43.96 | 41.66 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 5:30:28 | 44.29 | 41.99 | 80 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 5:30:31 | 44.62 | 42.32 | 60 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 5:30:32 | 44.95 | 42.65 | 198 | 1.14 | 0.29 | 10.8 |
| 5/3/2015 5:30:33 | 45.28 | 42.98 | 292 | 1.14 | 0.29 | 16.0 |
| 5/3/2015 5:32:05 | 45.60 | 43.30 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 5:33:23 | 45.93 | 43.63 | 4 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 5:33:38 | 46.26 | 43.96 | 36 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 5:33:54 | 46.59 | 44.29 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 5:33:56 | 46.92 | 44.62 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 5:33:56 | 47.24 | 44.94 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 5:34:57 | 47.57 | 45.27 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 5:34:57 | 47.90 | 45.60 | 60 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 5:35:52 | 48.23 | 45.93 | 99 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 5:35:53 | 48.56 | 46.26 | 230 | 1.14 | 0.29 | 12.6 |
| 5/3/2015 5:35:54 | 48.88 | 46.58 | 300 | 1.14 | 0.29 | 16.4 |
| 5/3/2015 5:35:54 | 49.21 | 46.91 | 355 | 1.14 | 0.29 | 19.4 |
| 5/3/2015 5:35:55 | 49.54 | 47.24 | 433 | 1.14 | 0.29 | 23.7 |
| 5/3/2015 5:37:28 | 49.87 | 47.57 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 5:37:28 | 50.20 | 47.90 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 5:37:29 | 50.53 | 48.23 | 148 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 5:37:29 | 50.85 | 48.55 | 290 | 1.14 | 0.29 | 15.9 |
| 5/3/2015 5:38:15 | 51.18 | 48.88 | 57 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 5:38:55 | 51.51 | 49.21 | 32 | 1.14 | 0.29 | 1.8 |
| 5/3/2015 5:38:57 | 51.84 | 49.54 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 5:38:59 | 52.17 | 49.87 | 230 | 1.14 | 0.29 | 12.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 5:38:59 | 52.49 | 50.19 | 356 | 1.14 | 0.29 | 19.5 |
| 5/3/2015 | 5:39:00 | 52.82 | 50.52 | 477 | 1.14 | 0.29 | 26.1 |
| 5/3/2015 | 5:39:05 | 53.15 | 50.85 | 57 | 1.14 | 0.29 | 3.1 |
| 5/3/2015 | 5:39:05 | 53.48 | 51.18 | 145 | 1.14 | 0.29 | 7.9 |
| 5/3/2015 | 5:39:06 | 53.81 | 51.51 | 246 | 1.14 | 0.29 | 13.4 |
| 5/3/2015 | 5:39:07 | 54.13 | 51.83 | 478 | 1.14 | 0.29 | 26.1 |
| 5/3/2015 | 5:39:46 | 54.46 | 52.16 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 5:39:51 | 54.79 | 52.49 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 5:40:04 | 55.12 | 52.82 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 5:40:06 | 55.45 | 53.15 | 132 | 1.14 | 0.29 | 7.2 |
| 5/3/2015 | 5:40:12 | 55.77 | 53.47 | 18 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 | 5:40:13 | 56.10 | 53.80 | 133 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 | 5:40:13 | 56.43 | 54.13 | 236 | 1.14 | 0.29 | 12.9 |
| 5/3/2015 | 5:40:29 | 56.76 | 54.46 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 5:40:36 | 57.09 | 54.79 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 | 5:40:37 | 57.41 | 55.11 | 150 | 1.14 | 0.29 | 8.2 |
| 5/3/2015 | 5:40:38 | 57.64 | 55.34 | 205 | 1.14 | 0.29 | 11.2 |

## P6 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 5:28:03

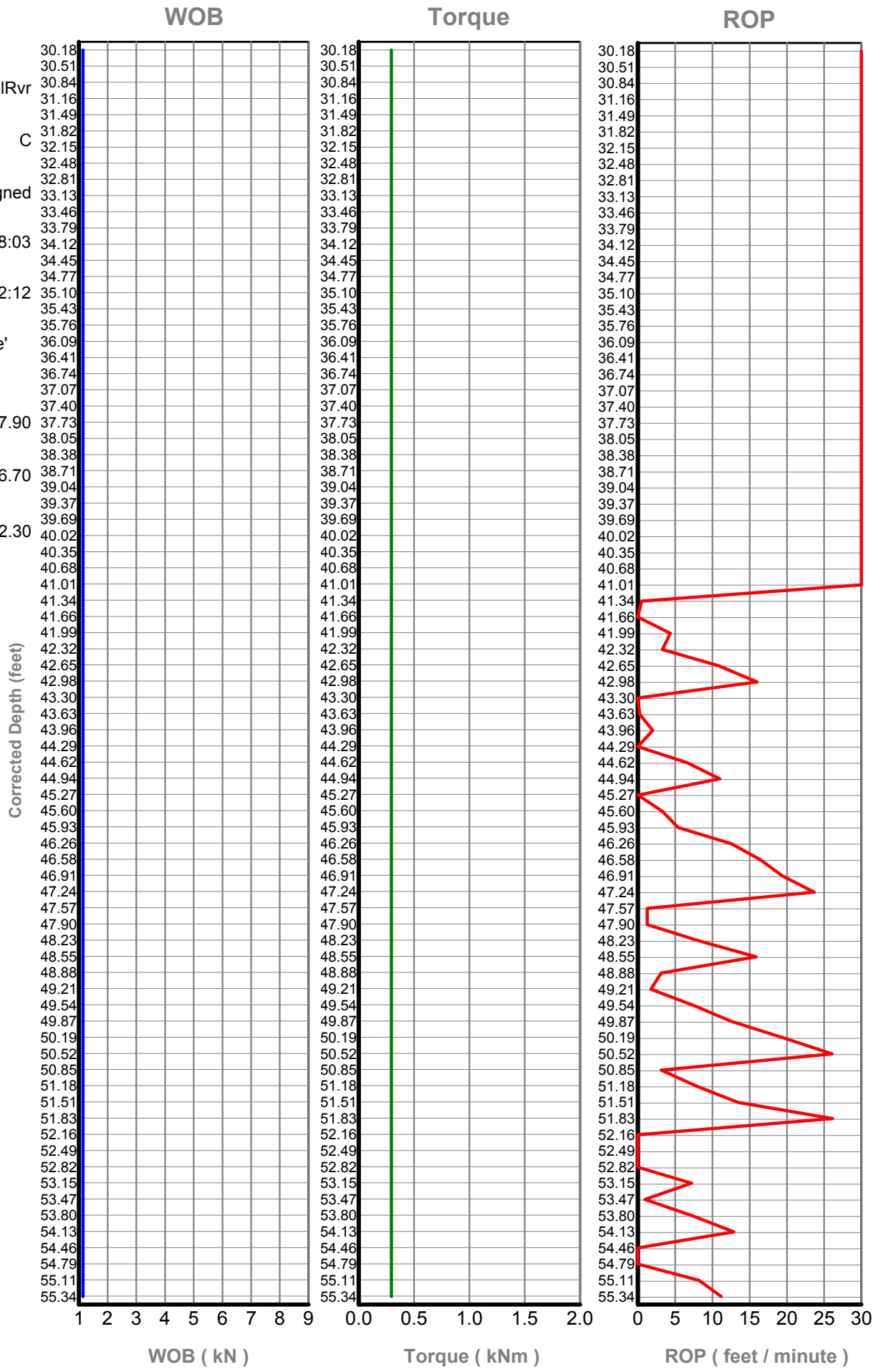
**End Date:**
5/3/2015 5:42:12

**Operator Note:**
'2.3 2.5 c Auto Complete'

**Northing:**
349,457.90

**Easting:**
224,656.70

**Tide (feet):**
2.30



## Hole: P60 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:08:29 | 36.75 | 30.05 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 1:08:30 | 37.07 | 30.37 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 1:08:30 | 37.40 | 30.70 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 1:08:31 | 37.73 | 31.03 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 1:08:31 | 38.06 | 31.36 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 1:08:31 | 38.39 | 31.69 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 1:08:32 | 38.71 | 32.01 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 1:08:32 | 39.04 | 32.34 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 1:08:32 | 39.37 | 32.67 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:33 | 39.70 | 33.00 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:33 | 40.03 | 33.33 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:33 | 40.35 | 33.65 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 1:08:34 | 40.68 | 33.98 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 1:08:34 | 41.01 | 34.31 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:34 | 41.34 | 34.64 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 1:08:35 | 41.67 | 34.97 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 1:08:35 | 41.99 | 35.29 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:35 | 42.32 | 35.62 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:36 | 42.65 | 35.95 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:36 | 42.98 | 36.28 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:36 | 43.31 | 36.61 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 1:08:36 | 43.64 | 36.94 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 1:08:37 | 43.96 | 37.26 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:37 | 44.29 | 37.59 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:37 | 44.62 | 37.92 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:38 | 44.95 | 38.25 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:38 | 45.28 | 38.58 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:38 | 45.60 | 38.90 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 1:08:39 | 45.93 | 39.23 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:39 | 46.26 | 39.56 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:39 | 46.59 | 39.89 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:40 | 46.92 | 40.22 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:40 | 47.24 | 40.54 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:40 | 47.57 | 40.87 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:41 | 47.90 | 41.20 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 1:08:41 | 48.23 | 41.53 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 1:08:41 | 48.56 | 41.86 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 1:08:42 | 48.88 | 42.18 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 1:08:42 | 49.21 | 42.51 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 1:08:43 | 49.54 | 42.84 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 1:08:43 | 49.87 | 43.17 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 1:08:43 | 50.20 | 43.50 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 1:08:44 | 50.53 | 43.83 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 1:08:44 | 50.85 | 44.15 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 1:08:44 | 51.18 | 44.48 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 1:08:45 | 51.51 | 44.81 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 1:08:45 | 51.84 | 45.14 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:08:57 | 52.17 | 45.47 | 53 | 1.14 | 0.29 | 2.9 |
| 5/4/2015 1:09:03 | 52.49 | 45.79 | 59 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 1:09:08 | 52.82 | 46.12 | 87 | 1.14 | 0.29 | 4.8 |
| 5/4/2015 1:09:29 | 53.15 | 46.45 | 37 | 1.14 | 0.29 | 2.0 |
| 5/4/2015 1:09:44 | 53.48 | 46.78 | 35 | 1.14 | 0.29 | 1.9 |
| 5/4/2015 1:10:03 | 53.81 | 47.11 | 24 | 1.14 | 0.29 | 1.3 |
| 5/4/2015 1:10:12 | 54.13 | 47.43 | 43 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 1:10:18 | 54.46 | 47.76 | 75 | 1.14 | 0.29 | 4.1 |
| 5/4/2015 1:10:25 | 54.79 | 48.09 | 59 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 1:10:32 | 55.12 | 48.42 | 70 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 1:10:37 | 55.45 | 48.75 | 64 | 1.14 | 0.29 | 3.5 |
| 5/4/2015 1:10:56 | 55.77 | 49.07 | 19 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 1:11:18 | 56.10 | 49.40 | 15 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 1:11:39 | 56.43 | 49.73 | 15 | 1.14 | 0.29 | 0.8 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:11:49 | 56.60 | 49.90 | 17 | 1.14 | 0.29 | 0.9 | |

## P60 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:07:30

**End Date:**
5/4/2015 1:13:14

**Operator Note:**
'6.7 6.6 c Auto Complete'

**Northing:**
348,798.10

**Easting:**
224,026.40

**Tide (feet):**
6.70



## Hole: P61 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:46:59 | 34.12 | 30.32 | 1,104 | 1.46 | 0.21 | 60.4 |
| 5/3/2015 21:46:59 | 34.45 | 30.65 | 1,107 | 1.44 | 0.21 | 60.5 |
| 5/3/2015 21:47:00 | 34.78 | 30.98 | 1,107 | 1.44 | 0.21 | 60.5 |
| 5/3/2015 21:47:00 | 35.11 | 31.31 | 1,104 | 1.43 | 0.21 | 60.4 |
| 5/3/2015 21:47:00 | 35.43 | 31.63 | 1,104 | 1.44 | 0.21 | 60.4 |
| 5/3/2015 21:47:01 | 35.76 | 31.96 | 1,104 | 1.44 | 0.21 | 60.4 |
| 5/3/2015 21:47:01 | 36.09 | 32.29 | 1,098 | 1.43 | 0.21 | 60.0 |
| 5/3/2015 21:47:01 | 36.42 | 32.62 | 1,098 | 1.43 | 0.21 | 60.0 |
| 5/3/2015 21:47:01 | 36.75 | 32.95 | 1,119 | 1.46 | 0.21 | 61.2 |
| 5/3/2015 21:47:02 | 37.07 | 33.27 | 1,113 | 1.45 | 0.21 | 60.9 |
| 5/3/2015 21:47:02 | 37.40 | 33.60 | 1,113 | 1.45 | 0.21 | 60.9 |
| 5/3/2015 21:47:02 | 37.73 | 33.93 | 1,116 | 1.44 | 0.21 | 61.0 |
| 5/3/2015 21:47:03 | 38.06 | 34.26 | 1,113 | 1.45 | 0.21 | 60.9 |
| 5/3/2015 21:47:03 | 38.39 | 34.59 | 1,113 | 1.45 | 0.21 | 60.9 |
| 5/3/2015 21:47:03 | 38.71 | 34.91 | 1,119 | 1.44 | 0.21 | 61.2 |
| 5/3/2015 21:47:04 | 39.04 | 35.24 | 1,119 | 1.44 | 0.21 | 61.2 |
| 5/3/2015 21:47:04 | 39.37 | 35.57 | 1,107 | 1.46 | 0.21 | 60.5 |
| 5/3/2015 21:47:05 | 39.70 | 35.90 | 1,114 | 1.45 | 0.23 | 60.9 |
| 5/3/2015 21:47:05 | 40.03 | 36.23 | 1,114 | 1.45 | 0.23 | 60.9 |
| 5/3/2015 21:47:05 | 40.35 | 36.55 | 1,104 | 1.46 | 0.21 | 60.4 |
| 5/3/2015 21:47:06 | 40.68 | 36.88 | 1,104 | 1.46 | 0.21 | 60.4 |
| 5/3/2015 21:47:06 | 41.01 | 37.21 | 1,110 | 1.46 | 0.21 | 60.7 |
| 5/3/2015 21:47:06 | 41.34 | 37.54 | 1,107 | 1.44 | 0.21 | 60.5 |
| 5/3/2015 21:47:07 | 41.67 | 37.87 | 1,107 | 1.44 | 0.21 | 60.5 |
| 5/3/2015 21:47:07 | 41.99 | 38.19 | 1,110 | 1.45 | 0.21 | 60.7 |
| 5/3/2015 21:47:07 | 42.32 | 38.52 | 1,106 | 1.47 | 0.21 | 60.5 |
| 5/3/2015 21:47:08 | 42.65 | 38.85 | 1,106 | 1.47 | 0.21 | 60.5 |
| 5/3/2015 21:47:08 | 42.98 | 39.18 | 1,113 | 1.43 | 0.21 | 60.9 |
| 5/3/2015 21:47:08 | 43.31 | 39.51 | 1,113 | 1.43 | 0.21 | 60.9 |
| 5/3/2015 21:47:08 | 43.64 | 39.84 | 1,107 | 1.51 | 0.22 | 60.5 |
| 5/3/2015 21:47:09 | 43.96 | 40.16 | 1,095 | 1.45 | 0.21 | 59.9 |
| 5/3/2015 21:47:09 | 44.29 | 40.49 | 1,095 | 1.45 | 0.21 | 59.9 |
| 5/3/2015 21:47:09 | 44.62 | 40.82 | 1,092 | 1.45 | 0.21 | 59.7 |
| 5/3/2015 21:47:10 | 44.95 | 41.15 | 1,092 | 1.43 | 0.21 | 59.7 |
| 5/3/2015 21:47:10 | 45.28 | 41.48 | 1,092 | 1.43 | 0.21 | 59.7 |
| 5/3/2015 21:47:10 | 45.60 | 41.80 | 1,092 | 1.43 | 0.20 | 59.7 |
| 5/3/2015 21:47:11 | 45.93 | 42.13 | 1,092 | 1.43 | 0.20 | 59.7 |
| 5/3/2015 21:47:11 | 46.26 | 42.46 | 1,092 | 1.44 | 0.21 | 59.7 |
| 5/3/2015 21:47:11 | 46.59 | 42.79 | 1,101 | 1.46 | 0.21 | 60.2 |
| 5/3/2015 21:47:12 | 46.92 | 43.12 | 1,101 | 1.46 | 0.21 | 60.2 |
| 5/3/2015 21:47:12 | 47.24 | 43.44 | 1,110 | 1.81 | 0.21 | 60.7 |
| 5/3/2015 21:47:12 | 47.57 | 43.77 | 1,027 | 1.63 | 0.21 | 56.2 |
| 5/3/2015 21:47:44 | 47.90 | 44.10 | 17 | 2.57 | 1.10 | 1.0 |
| 5/3/2015 21:48:05 | 48.23 | 44.43 | 13 | 2.59 | 0.98 | 0.7 |
| 5/3/2015 21:48:26 | 48.56 | 44.76 | 17 | 2.60 | 0.97 | 0.9 |
| 5/3/2015 21:48:45 | 48.88 | 45.08 | 15 | 2.50 | 0.94 | 0.8 |
| 5/3/2015 21:48:54 | 49.05 | 45.25 | 15 | 2.90 | 0.95 | 0.8 |

## P61 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 21:46:03

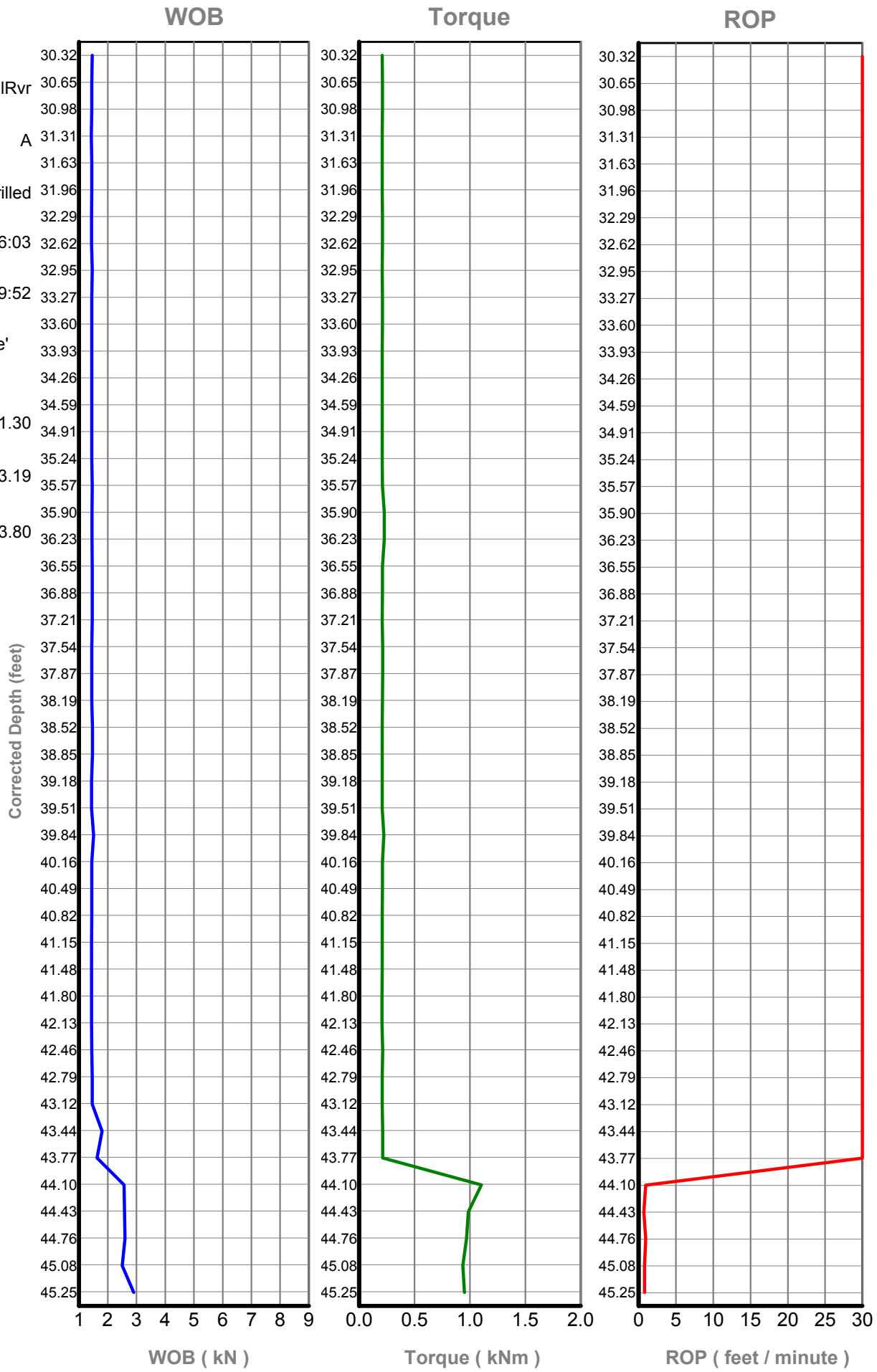
**End Date:**
5/3/2015 21:49:52

**Operator Note:**
'3.8 3.5 a Auto Complete'

**Northing:**
348,841.30

**Easting:**
224,083.19

**Tide (feet):**
3.80



## Hole: P62 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:50:35 | 34.12 | 30.32 | 1,242 | 0.31 | 0.37 | 67.9 |
| 5/3/2015 21:50:36 | 34.45 | 30.65 | 1,242 | 0.31 | 0.37 | 67.9 |
| 5/3/2015 21:50:36 | 34.78 | 30.98 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 21:50:36 | 35.11 | 31.31 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/3/2015 21:50:36 | 35.43 | 31.63 | 1,231 | 0.31 | 0.37 | 67.3 |
| 5/3/2015 21:50:37 | 35.76 | 31.96 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:37 | 36.09 | 32.29 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:37 | 36.42 | 32.62 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 21:50:38 | 36.75 | 32.95 | 1,216 | 0.31 | 0.38 | 66.5 |
| 5/3/2015 21:50:38 | 37.07 | 33.27 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:38 | 37.40 | 33.60 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:38 | 37.73 | 33.93 | 1,220 | 0.31 | 0.37 | 66.7 |
| 5/3/2015 21:50:39 | 38.06 | 34.26 | 1,217 | 0.31 | 0.37 | 66.6 |
| 5/3/2015 21:50:39 | 38.39 | 34.59 | 1,217 | 0.31 | 0.37 | 66.6 |
| 5/3/2015 21:50:39 | 38.71 | 34.91 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 21:50:40 | 39.04 | 35.24 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 21:50:40 | 39.37 | 35.57 | 1,236 | 0.31 | 0.37 | 67.6 |
| 5/3/2015 21:50:40 | 39.70 | 35.90 | 1,236 | 0.31 | 0.37 | 67.6 |
| 5/3/2015 21:50:40 | 40.03 | 36.23 | 1,223 | 0.31 | 0.38 | 66.9 |
| 5/3/2015 21:50:41 | 40.35 | 36.55 | 1,223 | 0.31 | 0.38 | 66.9 |
| 5/3/2015 21:50:41 | 40.68 | 36.88 | 1,226 | 0.31 | 0.37 | 67.0 |
| 5/3/2015 21:50:41 | 41.01 | 37.21 | 1,208 | 0.31 | 0.38 | 66.0 |
| 5/3/2015 21:50:42 | 41.34 | 37.54 | 1,208 | 0.31 | 0.38 | 66.0 |
| 5/3/2015 21:50:42 | 41.67 | 37.87 | 1,208 | 0.31 | 0.37 | 66.0 |
| 5/3/2015 21:50:43 | 41.99 | 38.19 | 1,208 | 0.31 | 0.37 | 66.0 |
| 5/3/2015 21:50:43 | 42.32 | 38.52 | 1,218 | 0.31 | 0.37 | 66.6 |
| 5/3/2015 21:50:43 | 42.65 | 38.85 | 1,218 | 0.31 | 0.37 | 66.6 |
| 5/3/2015 21:50:43 | 42.98 | 39.18 | 1,209 | 0.31 | 0.38 | 66.1 |
| 5/3/2015 21:50:44 | 43.31 | 39.51 | 1,212 | 0.31 | 0.36 | 66.3 |
| 5/3/2015 21:50:44 | 43.64 | 39.84 | 1,212 | 0.31 | 0.36 | 66.3 |
| 5/3/2015 21:50:44 | 43.96 | 40.16 | 1,212 | 0.31 | 0.38 | 66.3 |
| 5/3/2015 21:50:45 | 44.29 | 40.49 | 1,212 | 0.31 | 0.38 | 66.3 |
| 5/3/2015 21:50:45 | 44.62 | 40.82 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:45 | 44.95 | 41.15 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/3/2015 21:50:45 | 45.28 | 41.48 | 1,227 | 0.31 | 0.37 | 67.1 |
| 5/3/2015 21:50:46 | 45.60 | 41.80 | 1,227 | 0.31 | 0.37 | 67.1 |
| 5/3/2015 21:50:46 | 45.93 | 42.13 | 1,220 | 0.31 | 0.37 | 66.7 |
| 5/3/2015 21:50:46 | 46.26 | 42.46 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 21:50:47 | 46.59 | 42.79 | 1,220 | 0.31 | 0.38 | 66.7 |
| 5/3/2015 21:50:47 | 46.92 | 43.12 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 21:50:47 | 47.24 | 43.44 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 21:50:47 | 47.57 | 43.77 | 1,211 | 0.30 | 0.42 | 66.2 |
| 5/3/2015 21:50:48 | 47.90 | 44.10 | 1,115 | 0.29 | 0.43 | 61.0 |
| 5/3/2015 21:50:55 | 48.23 | 44.43 | 13 | 3.01 | 0.43 | 0.7 |
| 5/3/2015 21:50:56 | 48.56 | 44.76 | 150 | 2.71 | 0.43 | 8.2 |
| 5/3/2015 21:50:58 | 48.88 | 45.08 | 345 | 4.19 | 0.46 | 18.8 |
| 5/3/2015 21:51:00 | 49.21 | 45.41 | 113 | 3.50 | 0.46 | 6.2 |
| 5/3/2015 21:51:02 | 49.54 | 45.74 | 189 | 3.35 | 0.46 | 10.3 |
| 5/3/2015 21:51:05 | 49.87 | 46.07 | 94 | 4.22 | 0.45 | 5.1 |
| 5/3/2015 21:51:06 | 50.20 | 46.40 | 146 | 4.74 | 0.47 | 8.0 |
| 5/3/2015 21:51:09 | 50.53 | 46.73 | 93 | 3.83 | 0.43 | 5.1 |
| 5/3/2015 21:51:23 | 50.85 | 47.05 | 0 | 4.24 | 0.46 | 0.0 |
| 5/3/2015 21:51:26 | 51.18 | 47.38 | 82 | 3.19 | 0.46 | 4.5 |
| 5/3/2015 21:51:35 | 51.51 | 47.71 | 0 | 3.17 | 0.44 | 0.0 |
| 5/3/2015 21:51:37 | 51.84 | 48.04 | 113 | 2.93 | 0.44 | 6.2 |
| 5/3/2015 21:51:39 | 52.17 | 48.37 | 192 | 3.14 | 0.46 | 10.5 |
| 5/3/2015 21:51:42 | 52.49 | 48.69 | 91 | 2.99 | 0.45 | 5.0 |
| 5/3/2015 21:51:44 | 52.82 | 49.02 | 195 | 3.22 | 0.46 | 10.7 |
| 5/3/2015 21:51:47 | 53.15 | 49.35 | 163 | 3.50 | 0.46 | 8.9 |
| 5/3/2015 21:51:54 | 53.48 | 49.68 | 0 | 4.00 | 0.46 | 0.0 |
| 5/3/2015 21:52:24 | 53.81 | 50.01 | 59 | 3.75 | 0.46 | 3.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:52:28 | 54.13 | 50.33 | 93 | 4.49 | 0.46 | 5.1 |
| 5/3/2015 21:52:31 | 54.46 | 50.66 | 119 | 4.85 | 0.46 | 6.5 |
| 5/3/2015 21:52:34 | 54.79 | 50.99 | 113 | 4.56 | 0.46 | 6.2 |
| 5/3/2015 21:52:44 | 55.12 | 51.32 | 30 | 3.07 | 0.48 | 1.7 |
| 5/3/2015 21:52:50 | 55.45 | 51.65 | 86 | 3.41 | 0.47 | 4.7 |
| 5/3/2015 21:52:54 | 55.77 | 51.97 | 96 | 3.97 | 0.47 | 5.2 |
| 5/3/2015 21:52:58 | 56.10 | 52.30 | 85 | 3.76 | 0.47 | 4.6 |
| 5/3/2015 21:53:02 | 56.43 | 52.63 | 87 | 3.80 | 0.47 | 4.7 |
| 5/3/2015 21:53:07 | 56.76 | 52.96 | 71 | 3.81 | 0.47 | 3.9 |
| 5/3/2015 21:53:11 | 57.09 | 53.29 | 90 | 3.37 | 0.47 | 4.9 |
| 5/3/2015 21:53:19 | 57.41 | 53.61 | 42 | 3.09 | 0.47 | 2.3 |
| 5/3/2015 21:53:32 | 57.74 | 53.94 | 23 | 2.67 | 0.47 | 1.2 |
| 5/3/2015 21:53:46 | 58.07 | 54.27 | 23 | 2.74 | 0.47 | 1.3 |
| 5/3/2015 21:53:53 | 58.26 | 54.46 | 23 | 3.21 | 0.47 | 1.2 |

## P62 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:49:03

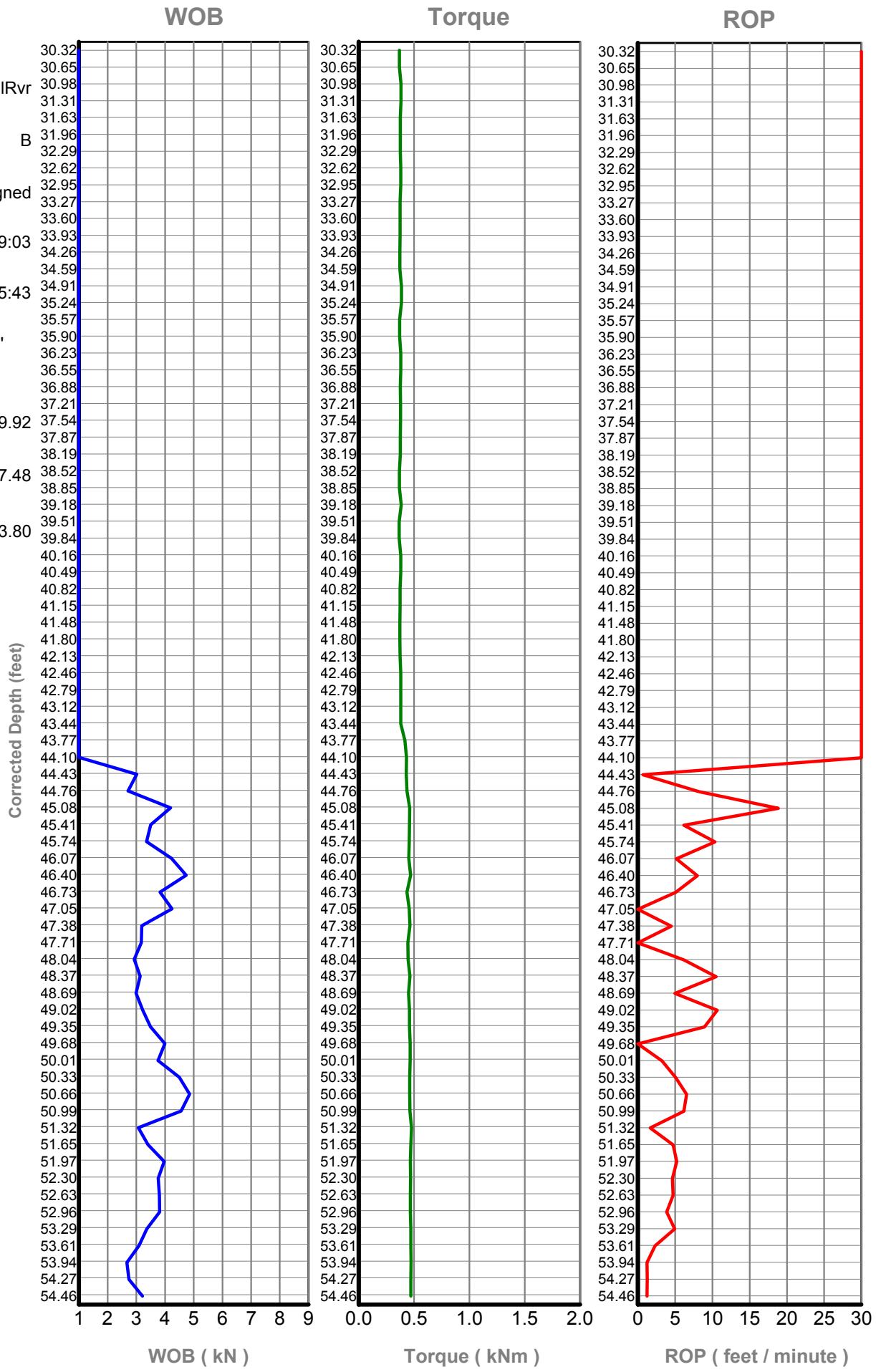
**End Date:**
5/3/2015 21:55:43

**Operator Note:**
'3.8 3.5b Auto Complete'

**Northing:**
348,879.92

**Easting:**
224,147.48

**Tide (feet):**
3.80



## Hole: P63 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:40:43 | 33.79 | 30.09 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 21:40:43 | 34.12 | 30.42 | 1,117 | 1.14 | 0.29 | 61.1 |
| 5/3/2015 21:40:43 | 34.45 | 30.75 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 21:40:44 | 34.78 | 31.08 | 1,116 | 1.14 | 0.29 | 61.0 |
| 5/3/2015 21:40:44 | 35.11 | 31.41 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 21:40:44 | 35.43 | 31.73 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 21:40:45 | 35.76 | 32.06 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 21:40:45 | 36.09 | 32.39 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:45 | 36.42 | 32.72 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 21:40:46 | 36.75 | 33.05 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 21:40:46 | 37.07 | 33.37 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:40:46 | 37.40 | 33.70 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:40:46 | 37.73 | 34.03 | 1,114 | 1.14 | 0.29 | 60.9 |
| 5/3/2015 21:40:47 | 38.06 | 34.36 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 21:40:48 | 38.39 | 34.69 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 21:40:48 | 38.71 | 35.01 | 1,111 | 1.14 | 0.29 | 60.8 |
| 5/3/2015 21:40:48 | 39.04 | 35.34 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:49 | 39.37 | 35.67 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:49 | 39.70 | 36.00 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:49 | 40.03 | 36.33 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:49 | 40.35 | 36.65 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:40:50 | 40.68 | 36.98 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:40:50 | 41.01 | 37.31 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:40:50 | 41.34 | 37.64 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/3/2015 21:40:51 | 41.67 | 37.97 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:51 | 41.99 | 38.29 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/3/2015 21:40:51 | 42.32 | 38.62 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:40:52 | 42.65 | 38.95 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:40:52 | 42.98 | 39.28 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:40:52 | 43.31 | 39.61 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:40:53 | 43.64 | 39.94 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:40:53 | 43.96 | 40.26 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:40:53 | 44.29 | 40.59 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:40:54 | 44.62 | 40.92 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:40:54 | 44.95 | 41.25 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:40:54 | 45.28 | 41.58 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:40:54 | 45.60 | 41.90 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:40:55 | 45.93 | 42.23 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:40:55 | 46.26 | 42.56 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:40:55 | 46.59 | 42.89 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:41:03 | 46.92 | 43.22 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 21:41:04 | 47.24 | 43.54 | 184 | 1.14 | 0.29 | 10.1 |
| 5/3/2015 21:41:09 | 47.57 | 43.87 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:41:11 | 47.90 | 44.20 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 21:41:12 | 48.23 | 44.53 | 267 | 1.14 | 0.29 | 14.6 |
| 5/3/2015 21:41:13 | 48.56 | 44.86 | 356 | 1.14 | 0.29 | 19.4 |
| 5/3/2015 21:41:24 | 48.88 | 45.18 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:42:11 | 49.21 | 45.51 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:42:12 | 49.54 | 45.84 | 117 | 1.14 | 0.29 | 6.4 |
| 5/3/2015 21:42:12 | 49.87 | 46.17 | 268 | 1.14 | 0.29 | 14.7 |
| 5/3/2015 21:42:13 | 50.20 | 46.50 | 408 | 1.14 | 0.29 | 22.3 |
| 5/3/2015 21:42:13 | 50.53 | 46.83 | 570 | 1.14 | 0.29 | 31.2 |
| 5/3/2015 21:42:14 | 50.85 | 47.15 | 570 | 1.14 | 0.29 | 31.2 |
| 5/3/2015 21:42:17 | 51.18 | 47.48 | 85 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 21:42:17 | 51.51 | 47.81 | 211 | 1.14 | 0.29 | 11.5 |
| 5/3/2015 21:42:19 | 51.84 | 48.14 | 394 | 1.14 | 0.29 | 21.5 |
| 5/3/2015 21:42:36 | 52.17 | 48.47 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:42:37 | 52.49 | 48.79 | 195 | 1.14 | 0.29 | 10.7 |
| 5/3/2015 21:42:40 | 52.82 | 49.12 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 21:42:42 | 53.15 | 49.45 | 203 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 21:42:45 | 53.48 | 49.78 | 57 | 1.14 | 0.29 | 3.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/3/2015 21:42:45 | 53.81 | 50.11 | 154 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 21:42:46 | 54.13 | 50.43 | 248 | 1.14 | 0.29 | 13.6 |
| 5/3/2015 21:42:47 | 54.46 | 50.76 | 431 | 1.14 | 0.29 | 23.5 |
| 5/3/2015 21:42:47 | 54.79 | 51.09 | 514 | 1.14 | 0.29 | 28.1 |
| 5/3/2015 21:42:50 | 55.12 | 51.42 | 100 | 1.14 | 0.29 | 5.5 |
| 5/3/2015 21:42:51 | 55.45 | 51.75 | 209 | 1.14 | 0.29 | 11.4 |
| 5/3/2015 21:42:52 | 55.77 | 52.07 | 371 | 1.14 | 0.29 | 20.3 |
| 5/3/2015 21:42:54 | 56.10 | 52.40 | 321 | 1.14 | 0.29 | 17.5 |
| 5/3/2015 21:43:22 | 56.43 | 52.73 | 43 | 1.14 | 0.29 | 2.3 |
| 5/3/2015 21:43:25 | 56.76 | 53.06 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 21:43:27 | 57.09 | 53.39 | 204 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 21:43:30 | 57.41 | 53.71 | 80 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 21:43:31 | 57.74 | 54.04 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 21:43:32 | 58.07 | 54.37 | 285 | 1.14 | 0.29 | 15.6 |
| 5/3/2015 21:43:37 | 58.29 | 54.59 | 29 | 1.14 | 0.29 | 1.6 |

## P63 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 21:39:55

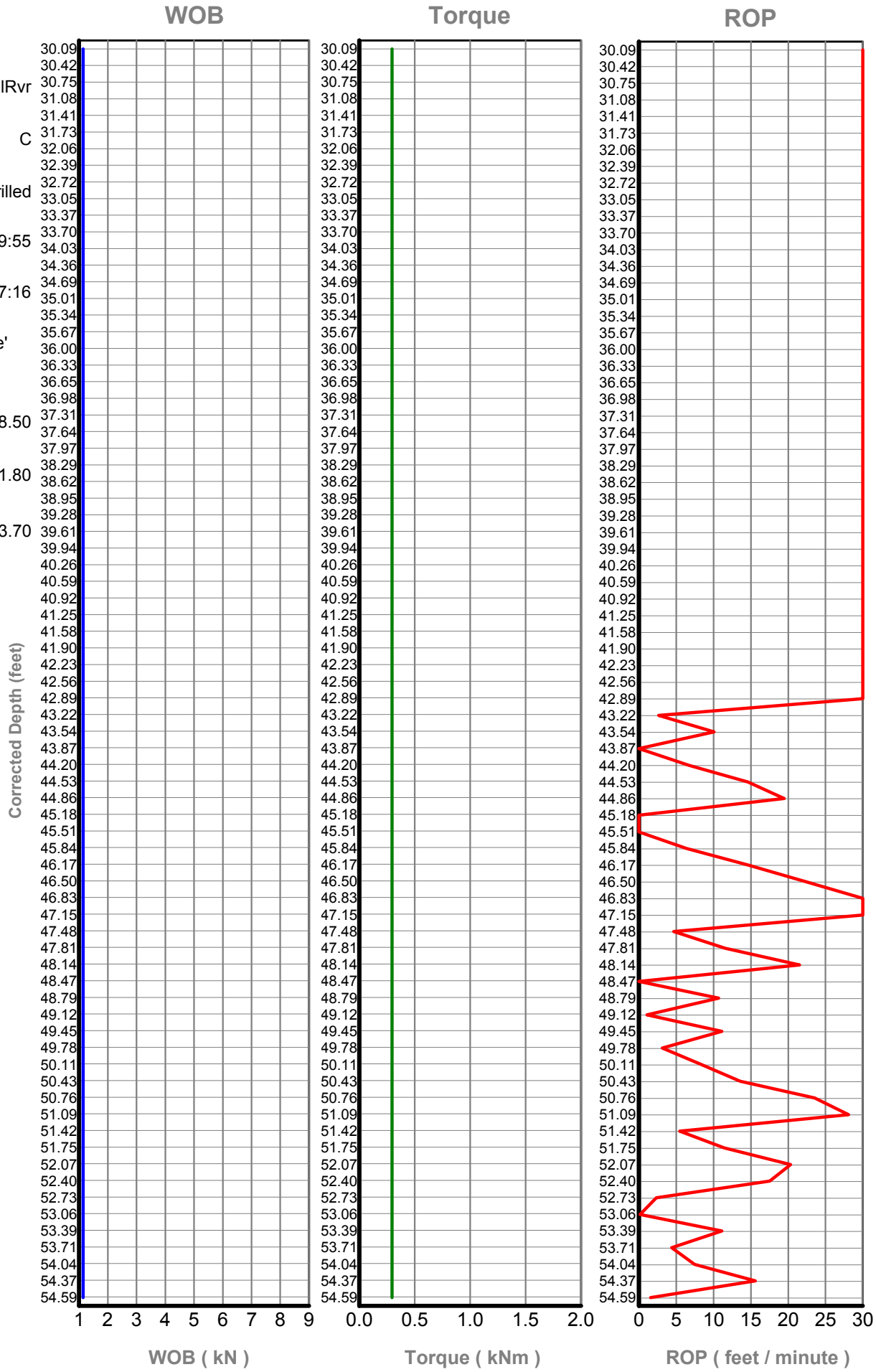
**End Date:**
5/3/2015 21:47:16

**Operator Note:**
'3.7 3.3 c Auto Complete'

**Northing:**
348,918.50

**Easting:**
224,211.80

**Tide (feet):**
3.70



## Hole: P64 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:50:44 | 33.46 | 30.16 | 937 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:50:44 | 33.79 | 30.49 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 15:50:45 | 34.12 | 30.82 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:50:45 | 34.45 | 31.15 | 942 | 0.54 | 0.17 | 51.5 |
| 5/3/2015 15:50:45 | 34.78 | 31.48 | 931 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 15:50:46 | 35.11 | 31.81 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:50:46 | 35.43 | 32.13 | 939 | 0.54 | 0.17 | 51.4 |
| 5/3/2015 15:50:46 | 35.76 | 32.46 | 936 | 0.54 | 0.17 | 51.2 |
| 5/3/2015 15:50:47 | 36.09 | 32.79 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 15:50:47 | 36.42 | 33.12 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:48 | 36.75 | 33.45 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:48 | 37.07 | 33.77 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:48 | 37.40 | 34.10 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:50:49 | 37.73 | 34.43 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:50:49 | 38.06 | 34.76 | 920 | 0.54 | 0.17 | 50.3 |
| 5/3/2015 15:50:49 | 38.39 | 35.09 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:50:50 | 38.71 | 35.41 | 930 | 0.54 | 0.17 | 50.8 |
| 5/3/2015 15:50:50 | 39.04 | 35.74 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:50:51 | 39.37 | 36.07 | 924 | 0.54 | 0.17 | 50.5 |
| 5/3/2015 15:50:51 | 39.70 | 36.40 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:51 | 40.03 | 36.73 | 944 | 0.54 | 0.17 | 51.6 |
| 5/3/2015 15:50:52 | 40.35 | 37.05 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:52 | 40.68 | 37.38 | 933 | 0.54 | 0.17 | 51.0 |
| 5/3/2015 15:50:52 | 41.01 | 37.71 | 934 | 0.54 | 0.17 | 51.1 |
| 5/3/2015 15:50:53 | 41.34 | 38.04 | 930 | 0.54 | 0.17 | 50.9 |
| 5/3/2015 15:50:53 | 41.67 | 38.37 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:54 | 41.99 | 38.69 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:54 | 42.32 | 39.02 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:50:54 | 42.65 | 39.35 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:55 | 42.98 | 39.68 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:56 | 43.31 | 40.01 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:56 | 43.64 | 40.34 | 928 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:56 | 43.96 | 40.66 | 927 | 0.54 | 0.17 | 50.7 |
| 5/3/2015 15:50:57 | 44.29 | 40.99 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:50:57 | 44.62 | 41.32 | 925 | 0.54 | 0.17 | 50.6 |
| 5/3/2015 15:50:57 | 44.95 | 41.65 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:50:58 | 45.28 | 41.98 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:50:58 | 45.60 | 42.30 | 916 | 0.54 | 0.17 | 50.1 |
| 5/3/2015 15:50:58 | 45.93 | 42.63 | 922 | 0.54 | 0.17 | 50.4 |
| 5/3/2015 15:51:09 | 46.26 | 42.96 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 15:51:10 | 46.59 | 43.29 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 15:51:12 | 46.92 | 43.62 | 286 | 0.54 | 0.17 | 15.7 |
| 5/3/2015 15:51:13 | 47.24 | 43.94 | 290 | 0.54 | 0.17 | 15.9 |
| 5/3/2015 15:51:13 | 47.57 | 44.27 | 287 | 0.54 | 0.17 | 15.7 |
| 5/3/2015 15:51:14 | 47.90 | 44.60 | 387 | 0.54 | 0.17 | 21.2 |
| 5/3/2015 15:51:16 | 48.23 | 44.93 | 245 | 0.54 | 0.17 | 13.4 |
| 5/3/2015 15:51:17 | 48.56 | 45.26 | 260 | 0.54 | 0.17 | 14.2 |
| 5/3/2015 15:51:17 | 48.88 | 45.58 | 297 | 0.54 | 0.17 | 16.3 |
| 5/3/2015 15:51:18 | 49.21 | 45.91 | 374 | 0.54 | 0.17 | 20.5 |
| 5/3/2015 15:51:19 | 49.54 | 46.24 | 568 | 0.54 | 0.17 | 31.1 |
| 5/3/2015 15:51:20 | 49.87 | 46.57 | 616 | 0.54 | 0.17 | 33.7 |
| 5/3/2015 15:51:20 | 50.20 | 46.90 | 631 | 0.54 | 0.17 | 34.5 |
| 5/3/2015 15:51:21 | 50.53 | 47.23 | 627 | 0.54 | 0.17 | 34.3 |
| 5/3/2015 15:51:22 | 50.85 | 47.55 | 504 | 0.54 | 0.17 | 27.6 |
| 5/3/2015 15:51:23 | 51.18 | 47.88 | 412 | 0.54 | 0.17 | 22.5 |
| 5/3/2015 15:51:24 | 51.51 | 48.21 | 337 | 0.54 | 0.17 | 18.4 |
| 5/3/2015 15:51:25 | 51.84 | 48.54 | 384 | 0.54 | 0.17 | 21.0 |
| 5/3/2015 15:51:26 | 52.17 | 48.87 | 369 | 0.54 | 0.17 | 20.2 |
| 5/3/2015 15:51:27 | 52.49 | 49.19 | 277 | 0.54 | 0.17 | 15.1 |
| 5/3/2015 15:51:29 | 52.82 | 49.52 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 15:51:32 | 53.15 | 49.85 | 177 | 0.54 | 0.17 | 9.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:51:38 | 53.48 | 50.18 | 38 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 | 15:51:46 | 53.81 | 50.51 | 52 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 15:51:49 | 54.13 | 50.83 | 119 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 | 15:51:53 | 54.46 | 51.16 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 15:51:57 | 54.79 | 51.49 | 85 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 | 15:52:02 | 55.12 | 51.82 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 | 15:52:08 | 55.45 | 52.15 | 69 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 15:52:14 | 55.77 | 52.47 | 55 | 0.54 | 0.17 | 3.0 |
| 5/3/2015 | 15:52:58 | 56.10 | 52.80 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 15:58:05 | 56.17 | 52.87 | 0 | 0.54 | 0.17 | 0.0 |

## P64 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:49:26

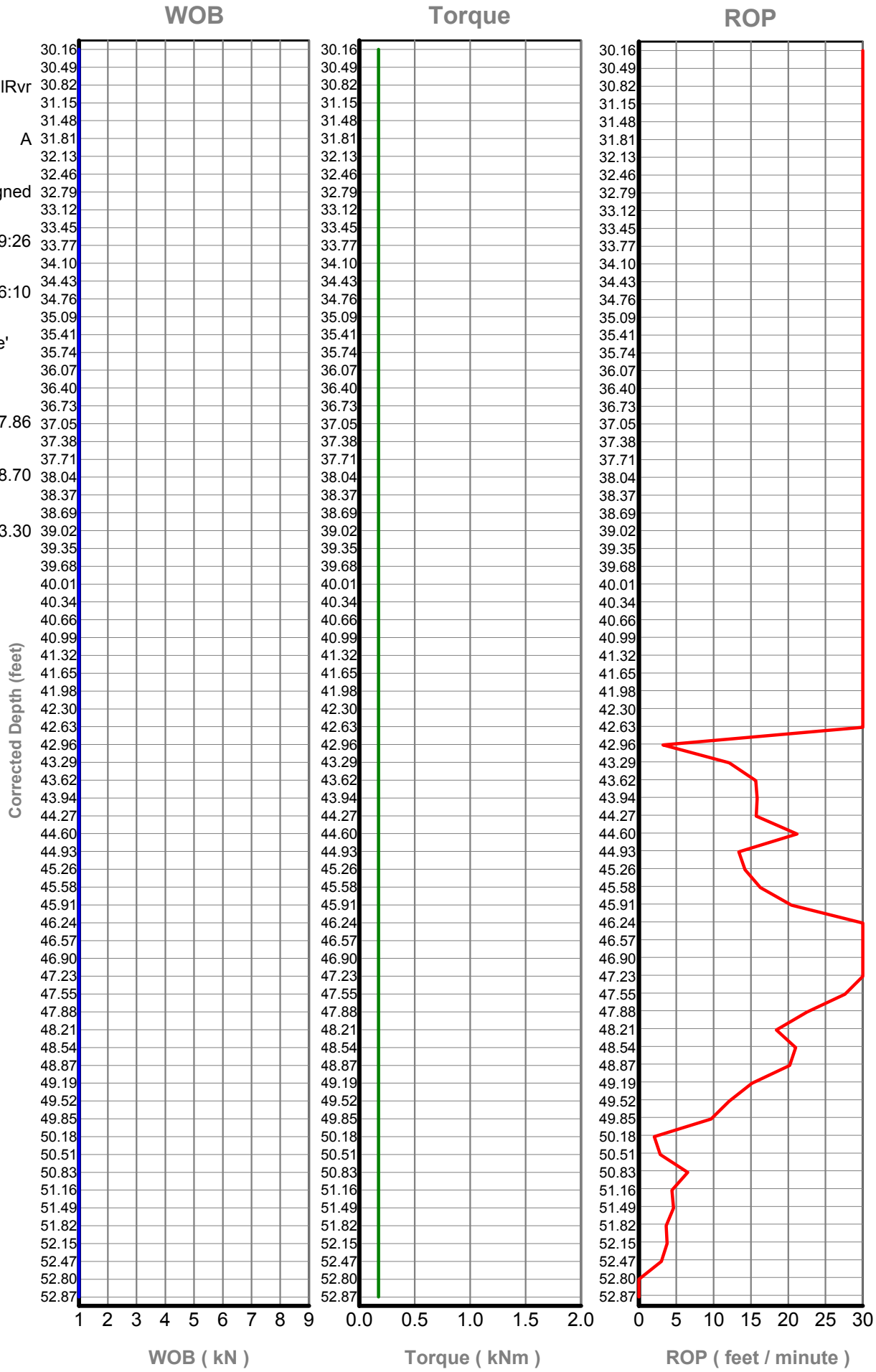
**End Date:**
5/3/2015 16:26:10

**Operator Note:**
'3.3 3.5 a Auto Complete'

**Northing:**
348,957.86

**Easting:**
224,268.70

**Tide (feet):**
3.30



## Hole: P65 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:50:33 | 33.46 | 30.16 | 1,345 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 15:50:33 | 33.79 | 30.49 | 1,345 | 0.26 | 0.37 | 73.5 |
| 5/3/2015 15:50:34 | 34.12 | 30.82 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 15:50:34 | 34.45 | 31.15 | 1,356 | 0.26 | 0.37 | 74.1 |
| 5/3/2015 15:50:34 | 34.78 | 31.48 | 1,359 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 15:50:35 | 35.11 | 31.81 | 1,359 | 0.26 | 0.39 | 74.3 |
| 5/3/2015 15:50:35 | 35.43 | 32.13 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 15:50:35 | 35.76 | 32.46 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 15:50:35 | 36.09 | 32.79 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 15:50:36 | 36.42 | 33.12 | 1,350 | 0.25 | 0.39 | 73.8 |
| 5/3/2015 15:50:36 | 36.75 | 33.45 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 15:50:36 | 37.07 | 33.77 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 15:50:36 | 37.40 | 34.10 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 15:50:37 | 37.73 | 34.43 | 1,347 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 15:50:37 | 38.06 | 34.76 | 1,347 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 15:50:37 | 38.39 | 35.09 | 1,347 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 15:50:37 | 38.71 | 35.41 | 1,345 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 15:50:37 | 39.04 | 35.74 | 1,345 | 0.26 | 0.38 | 73.5 |
| 5/3/2015 15:50:38 | 39.37 | 36.07 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:39 | 39.70 | 36.40 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:38 | 40.03 | 36.73 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:39 | 40.35 | 37.05 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:39 | 40.68 | 37.38 | 1,362 | 0.27 | 0.38 | 74.5 |
| 5/3/2015 15:50:40 | 41.01 | 37.71 | 1,362 | 0.27 | 0.38 | 74.5 |
| 5/3/2015 15:50:40 | 41.34 | 38.04 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 15:50:40 | 41.67 | 38.37 | 1,359 | 0.25 | 0.37 | 74.3 |
| 5/3/2015 15:50:40 | 41.99 | 38.69 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:41 | 42.32 | 39.02 | 1,359 | 0.25 | 0.39 | 74.3 |
| 5/3/2015 15:50:41 | 42.65 | 39.35 | 1,348 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 15:50:41 | 42.98 | 39.68 | 1,348 | 0.25 | 0.37 | 73.7 |
| 5/3/2015 15:50:41 | 43.31 | 40.01 | 1,350 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 15:50:42 | 43.64 | 40.34 | 1,350 | 0.25 | 0.38 | 73.8 |
| 5/3/2015 15:50:41 | 43.96 | 40.66 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 15:50:42 | 44.29 | 40.99 | 1,339 | 0.26 | 0.39 | 73.2 |
| 5/3/2015 15:50:42 | 44.62 | 41.32 | 1,353 | 0.26 | 0.37 | 74.0 |
| 5/3/2015 15:50:43 | 44.95 | 41.65 | 1,353 | 0.26 | 0.37 | 74.0 |
| 5/3/2015 15:50:43 | 45.28 | 41.98 | 1,350 | 0.25 | 0.37 | 73.8 |
| 5/3/2015 15:50:43 | 45.60 | 42.30 | 1,350 | 0.25 | 0.37 | 73.8 |
| 5/3/2015 15:50:43 | 45.93 | 42.63 | 1,355 | 0.25 | 0.38 | 74.1 |
| 5/3/2015 15:50:44 | 46.26 | 42.96 | 1,355 | 0.25 | 0.38 | 74.1 |
| 5/3/2015 15:50:50 | 46.59 | 43.29 | 0 | 2.65 | 0.47 | 0.0 |
| 5/3/2015 15:50:52 | 46.92 | 43.62 | 115 | 2.86 | 0.45 | 6.3 |
| 5/3/2015 15:50:53 | 47.24 | 43.94 | 212 | 2.40 | 0.41 | 11.6 |
| 5/3/2015 15:50:56 | 47.57 | 44.27 | 143 | 1.56 | 0.36 | 7.8 |
| 5/3/2015 15:50:57 | 47.90 | 44.60 | 103 | 2.77 | 0.47 | 5.6 |
| 5/3/2015 15:51:03 | 48.23 | 44.93 | 46 | 3.09 | 0.47 | 2.5 |
| 5/3/2015 15:51:05 | 48.56 | 45.26 | 154 | 2.55 | 0.47 | 8.4 |
| 5/3/2015 15:51:07 | 48.88 | 45.58 | 188 | 3.25 | 0.47 | 10.3 |
| 5/3/2015 15:51:15 | 49.21 | 45.91 | 65 | 3.32 | 0.49 | 3.6 |
| 5/3/2015 15:51:18 | 49.54 | 46.24 | 91 | 3.16 | 0.48 | 5.0 |
| 5/3/2015 15:51:19 | 49.87 | 46.57 | 166 | 2.87 | 0.47 | 9.1 |
| 5/3/2015 15:51:21 | 50.20 | 46.90 | 269 | 3.96 | 0.48 | 14.7 |
| 5/3/2015 15:51:41 | 50.53 | 47.23 | 31 | 3.14 | 0.47 | 1.7 |
| 5/3/2015 15:51:42 | 50.85 | 47.55 | 149 | 2.74 | 0.48 | 8.1 |
| 5/3/2015 15:51:44 | 51.18 | 47.88 | 179 | 2.36 | 0.48 | 9.8 |
| 5/3/2015 15:51:46 | 51.51 | 48.21 | 160 | 2.42 | 0.44 | 8.8 |
| 5/3/2015 15:51:47 | 51.84 | 48.54 | 226 | 2.82 | 0.46 | 12.3 |
| 5/3/2015 15:51:52 | 52.17 | 48.87 | 12 | 3.17 | 0.48 | 0.6 |
| 5/3/2015 15:51:56 | 52.49 | 49.19 | 66 | 3.41 | 0.48 | 3.6 |
| 5/3/2015 15:52:01 | 52.82 | 49.52 | 69 | 3.49 | 0.48 | 3.8 |
| 5/3/2015 15:52:08 | 53.15 | 49.85 | 54 | 3.16 | 0.49 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:52:13 | 53.48 | 50.18 | 86 | 3.51 | 0.48 | 4.7 |
| 5/3/2015 | 15:52:18 | 53.81 | 50.51 | 59 | 2.85 | 0.48 | 3.2 |
| 5/3/2015 | 15:52:24 | 54.13 | 50.83 | 58 | 3.05 | 0.48 | 3.2 |
| 5/3/2015 | 15:52:31 | 54.46 | 51.16 | 55 | 2.61 | 0.49 | 3.0 |
| 5/3/2015 | 15:52:36 | 54.79 | 51.49 | 76 | 2.69 | 0.49 | 4.2 |
| 5/3/2015 | 15:52:54 | 55.12 | 51.82 | 85 | 2.86 | 0.48 | 4.6 |
| 5/3/2015 | 15:52:58 | 55.45 | 52.15 | 61 | 2.60 | 0.48 | 3.3 |
| 5/3/2015 | 15:53:06 | 55.77 | 52.47 | 46 | 2.54 | 0.49 | 2.5 |
| 5/3/2015 | 15:53:11 | 56.10 | 52.80 | 75 | 2.84 | 0.48 | 4.1 |
| 5/3/2015 | 15:53:14 | 56.43 | 53.13 | 130 | 2.75 | 0.47 | 7.1 |
| 5/3/2015 | 15:53:22 | 56.76 | 53.46 | 29 | 3.28 | 0.48 | 1.6 |
| 5/3/2015 | 15:53:33 | 57.09 | 53.79 | 44 | 2.87 | 0.48 | 2.4 |
| 5/3/2015 | 15:53:39 | 57.41 | 54.11 | 78 | 3.37 | 0.48 | 4.3 |
| 5/3/2015 | 15:53:41 | 57.74 | 54.44 | 121 | 2.66 | 0.48 | 6.6 |
| 5/3/2015 | 15:53:47 | 58.07 | 54.77 | 66 | 2.56 | 0.48 | 3.6 |
| 5/3/2015 | 15:53:52 | 58.40 | 55.10 | 67 | 2.59 | 0.48 | 3.6 |
| 5/3/2015 | 15:53:53 | 58.51 | 55.21 | 64 | 2.48 | 0.48 | 3.5 |

## P65 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:49:02

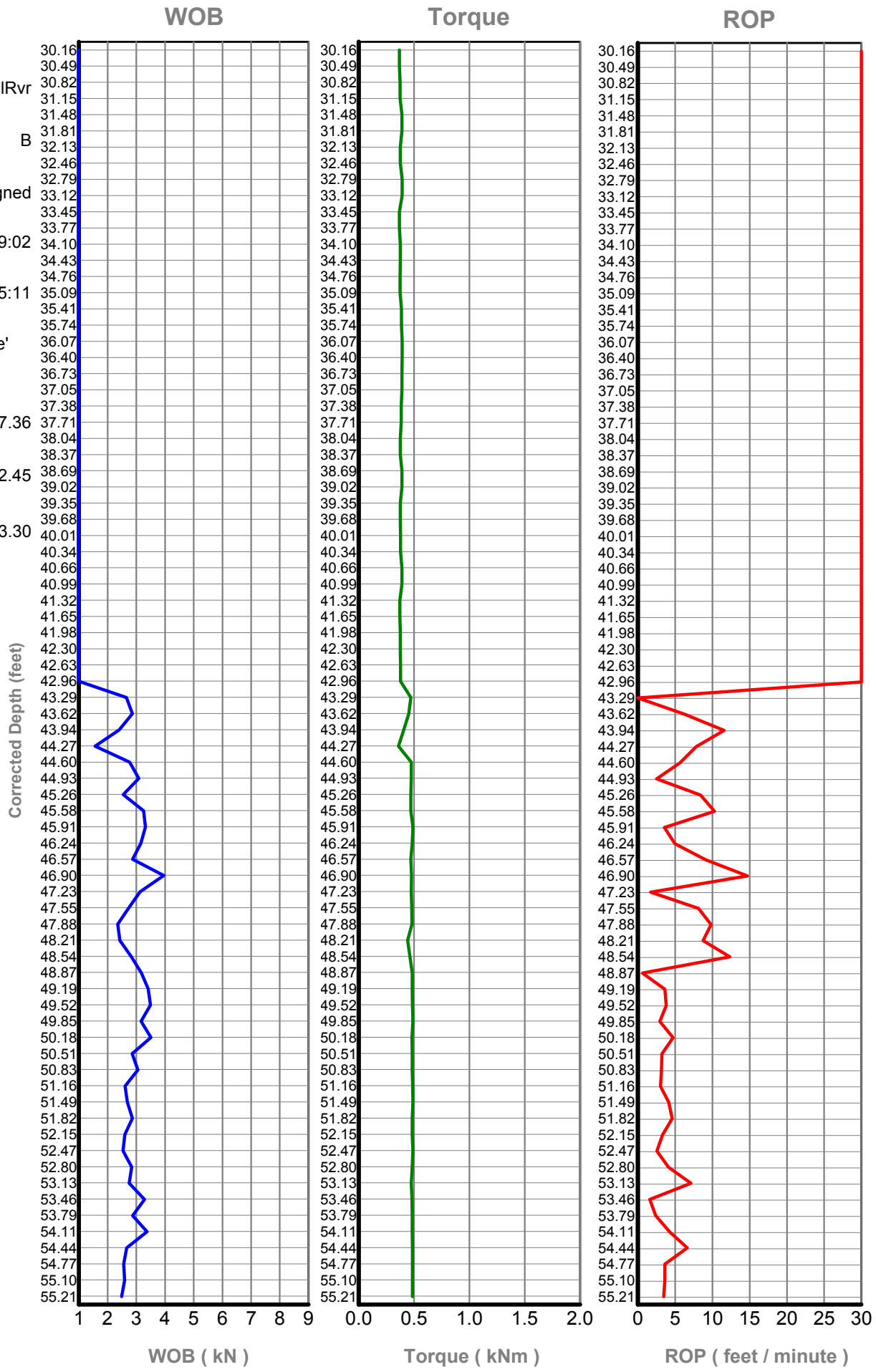
**End Date:**
5/3/2015 15:55:11

**Operator Note:**
'3.3 3.5 b Auto Complete'

**Northing:**
348,997.36

**Easting:**
224,332.45

**Tide (feet):**
3.30



## Hole: P66 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 15:50:27 | 33.46 | 30.16 | 1,193 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:50:27 | 33.79 | 30.49 | 1,213 | 1.14 | 0.29 | 66.3 |
| 5/3/2015 15:50:28 | 34.12 | 30.82 | 1,206 | 1.14 | 0.29 | 65.9 |
| 5/3/2015 15:50:28 | 34.45 | 31.15 | 1,206 | 1.14 | 0.29 | 65.9 |
| 5/3/2015 15:50:28 | 34.78 | 31.48 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:50:29 | 35.11 | 31.81 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:50:29 | 35.43 | 32.13 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:29 | 35.76 | 32.46 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:29 | 36.09 | 32.79 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:30 | 36.42 | 33.12 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:31 | 36.75 | 33.45 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:30 | 37.07 | 33.77 | 1,182 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:50:31 | 37.40 | 34.10 | 1,182 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:50:31 | 37.73 | 34.43 | 1,193 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:50:32 | 38.06 | 34.76 | 1,193 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 15:50:32 | 38.39 | 35.09 | 1,186 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:32 | 38.71 | 35.41 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:33 | 39.04 | 35.74 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:33 | 39.37 | 36.07 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:33 | 39.70 | 36.40 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 15:50:33 | 40.03 | 36.73 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 15:50:34 | 40.35 | 37.05 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:50:34 | 40.68 | 37.38 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:50:34 | 41.01 | 37.71 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:50:35 | 41.34 | 38.04 | 1,178 | 1.14 | 0.29 | 64.4 |
| 5/3/2015 15:50:35 | 41.67 | 38.37 | 1,184 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 15:50:35 | 41.99 | 38.69 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:50:36 | 42.32 | 39.02 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:50:36 | 42.65 | 39.35 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:50:36 | 42.98 | 39.68 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 15:50:36 | 43.31 | 40.01 | 1,168 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:50:37 | 43.64 | 40.34 | 1,168 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:50:37 | 43.96 | 40.66 | 1,167 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 15:50:37 | 44.29 | 40.99 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 15:50:38 | 44.62 | 41.32 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 15:50:38 | 44.95 | 41.65 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:50:38 | 45.28 | 41.98 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 15:50:38 | 45.60 | 42.30 | 1,182 | 1.14 | 0.29 | 64.6 |
| 5/3/2015 15:50:39 | 45.93 | 42.63 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 15:50:39 | 46.26 | 42.96 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 15:50:39 | 46.59 | 43.29 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:50:40 | 46.92 | 43.62 | 1,176 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 15:50:40 | 47.24 | 43.94 | 1,179 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 15:50:40 | 47.57 | 44.27 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 15:50:54 | 47.90 | 44.60 | 68 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 15:50:55 | 48.23 | 44.93 | 174 | 1.14 | 0.29 | 9.5 |
| 5/3/2015 15:50:56 | 48.56 | 45.26 | 362 | 1.14 | 0.29 | 19.8 |
| 5/3/2015 15:50:56 | 48.88 | 45.58 | 456 | 1.14 | 0.29 | 25.0 |
| 5/3/2015 15:50:57 | 49.21 | 45.91 | 503 | 1.14 | 0.29 | 27.5 |
| 5/3/2015 15:50:57 | 49.54 | 46.24 | 529 | 1.14 | 0.29 | 28.9 |
| 5/3/2015 15:50:58 | 49.87 | 46.57 | 552 | 1.14 | 0.29 | 30.2 |
| 5/3/2015 15:50:58 | 50.20 | 46.90 | 604 | 1.14 | 0.29 | 33.1 |
| 5/3/2015 15:51:17 | 50.53 | 47.23 | 121 | 1.14 | 0.29 | 6.6 |
| 5/3/2015 15:51:18 | 50.85 | 47.55 | 265 | 1.14 | 0.29 | 14.5 |
| 5/3/2015 15:51:23 | 51.18 | 47.88 | 52 | 1.14 | 0.29 | 2.9 |
| 5/3/2015 15:51:48 | 51.51 | 48.21 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 15:51:52 | 51.84 | 48.54 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 15:51:57 | 52.17 | 48.87 | 87 | 1.14 | 0.29 | 4.8 |
| 5/3/2015 15:52:00 | 52.49 | 49.19 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 15:52:04 | 52.82 | 49.52 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 15:52:09 | 53.15 | 49.85 | 84 | 1.14 | 0.29 | 4.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 15:52:13 | 53.48 | 50.18 | 76 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 | 15:52:18 | 53.81 | 50.51 | 90 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 15:52:22 | 54.13 | 50.83 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 | 15:52:27 | 54.46 | 51.16 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 | 15:52:33 | 54.79 | 51.49 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 | 15:52:38 | 54.88 | 51.58 | 20 | 1.14 | 0.29 | 1.1 |

## P66 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 15:49:25

**End Date:**
5/3/2015 15:54:07

**Operator Note:**
'3.3 3.6 c Auto Complete'

**Northing:**
349,036.90

**Easting:**
224,396.20

**Tide (feet):**
3.30



## Hole: P67 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:46:03 | 34.78 | 30.28 | 1,107 | 0.54 | 0.17 | 60.5 |
| 5/3/2015 14:46:03 | 35.11 | 30.61 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:04 | 35.43 | 30.93 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:04 | 35.76 | 31.26 | 1,121 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:04 | 36.09 | 31.59 | 1,121 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:04 | 36.42 | 31.92 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:05 | 36.75 | 32.25 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:05 | 37.07 | 32.57 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:05 | 37.40 | 32.90 | 1,139 | 0.54 | 0.17 | 62.3 |
| 5/3/2015 14:46:06 | 37.73 | 33.23 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:06 | 38.06 | 33.56 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:06 | 38.39 | 33.89 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:07 | 38.71 | 34.21 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:07 | 39.04 | 34.54 | 1,125 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:07 | 39.37 | 34.87 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 14:46:08 | 39.70 | 35.20 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 14:46:08 | 40.03 | 35.53 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:08 | 40.35 | 35.85 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:08 | 40.68 | 36.18 | 1,120 | 0.54 | 0.17 | 61.2 |
| 5/3/2015 14:46:09 | 41.01 | 36.51 | 1,122 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:09 | 41.34 | 36.84 | 1,122 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:09 | 41.67 | 37.17 | 1,126 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:10 | 41.99 | 37.49 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:10 | 42.32 | 37.82 | 1,132 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 14:46:10 | 42.65 | 38.15 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:11 | 42.98 | 38.48 | 1,123 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:11 | 43.31 | 38.81 | 1,109 | 0.54 | 0.17 | 60.7 |
| 5/3/2015 14:46:11 | 43.64 | 39.14 | 1,111 | 0.54 | 0.17 | 60.8 |
| 5/3/2015 14:46:12 | 43.96 | 39.46 | 1,111 | 0.54 | 0.17 | 60.8 |
| 5/3/2015 14:46:12 | 44.29 | 39.79 | 1,114 | 0.54 | 0.17 | 60.9 |
| 5/3/2015 14:46:13 | 44.62 | 40.12 | 1,114 | 0.54 | 0.17 | 60.9 |
| 5/3/2015 14:46:12 | 44.95 | 40.45 | 1,095 | 0.54 | 0.17 | 59.9 |
| 5/3/2015 14:46:13 | 45.28 | 40.78 | 1,095 | 0.54 | 0.17 | 59.9 |
| 5/3/2015 14:46:14 | 45.60 | 41.10 | 1,095 | 0.54 | 0.17 | 59.9 |
| 5/3/2015 14:46:13 | 45.93 | 41.43 | 1,107 | 0.54 | 0.17 | 60.5 |
| 5/3/2015 14:46:14 | 46.26 | 41.76 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:15 | 46.59 | 42.09 | 1,120 | 0.54 | 0.17 | 61.3 |
| 5/3/2015 14:46:15 | 46.92 | 42.42 | 1,125 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:15 | 47.24 | 42.74 | 1,125 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:15 | 47.57 | 43.07 | 1,116 | 0.54 | 0.17 | 61.0 |
| 5/3/2015 14:46:16 | 47.90 | 43.40 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 14:46:16 | 48.23 | 43.73 | 1,134 | 0.54 | 0.17 | 62.0 |
| 5/3/2015 14:46:16 | 48.56 | 44.06 | 1,126 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:17 | 48.88 | 44.38 | 1,126 | 0.54 | 0.17 | 61.5 |
| 5/3/2015 14:46:17 | 49.21 | 44.71 | 1,128 | 0.54 | 0.17 | 61.7 |
| 5/3/2015 14:46:17 | 49.54 | 45.04 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/3/2015 14:46:18 | 49.87 | 45.37 | 1,119 | 0.54 | 0.17 | 61.2 |
| 5/3/2015 14:46:18 | 50.20 | 45.70 | 1,122 | 0.54 | 0.17 | 61.4 |
| 5/3/2015 14:46:18 | 50.53 | 46.03 | 1,093 | 0.54 | 0.17 | 59.8 |
| 5/3/2015 14:46:22 | 50.85 | 46.35 | 32 | 0.54 | 0.17 | 1.8 |
| 5/3/2015 14:46:23 | 51.18 | 46.68 | 206 | 0.54 | 0.17 | 11.3 |
| 5/3/2015 14:46:23 | 51.51 | 47.01 | 309 | 0.54 | 0.17 | 16.9 |
| 5/3/2015 14:46:24 | 51.84 | 47.34 | 450 | 0.54 | 0.17 | 24.6 |
| 5/3/2015 14:46:24 | 52.17 | 47.67 | 561 | 0.54 | 0.17 | 30.7 |
| 5/3/2015 14:46:25 | 52.49 | 47.99 | 602 | 0.54 | 0.17 | 32.9 |
| 5/3/2015 14:46:26 | 52.82 | 48.32 | 661 | 0.54 | 0.17 | 36.1 |
| 5/3/2015 14:46:32 | 53.15 | 48.65 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 14:46:40 | 53.48 | 48.98 | 39 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 14:46:47 | 53.81 | 49.31 | 59 | 0.54 | 0.17 | 3.2 |
| 5/3/2015 14:46:52 | 54.13 | 49.63 | 60 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 14:46:56 | 54.46 | 49.96 | 96 | 0.54 | 0.17 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 14:46:58 | 54.79 | 50.29 | 192 | 0.54 | 0.17 | 10.5 |
| 5/3/2015 | 14:47:02 | 55.12 | 50.62 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 14:47:06 | 55.45 | 50.95 | 93 | 0.54 | 0.17 | 5.1 |
| 5/3/2015 | 14:47:11 | 55.77 | 51.27 | 67 | 0.54 | 0.17 | 3.7 |
| 5/3/2015 | 14:47:14 | 56.10 | 51.60 | 131 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 | 14:47:17 | 56.43 | 51.93 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 | 14:47:21 | 56.76 | 52.26 | 91 | 0.54 | 0.17 | 5.0 |
| 5/3/2015 | 14:47:25 | 57.09 | 52.59 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 14:47:28 | 57.41 | 52.91 | 111 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 | 14:47:31 | 57.74 | 53.24 | 125 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 | 14:47:34 | 58.07 | 53.57 | 105 | 0.54 | 0.17 | 5.7 |
| 5/3/2015 | 14:47:39 | 58.40 | 53.90 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 | 14:47:44 | 58.73 | 54.23 | 81 | 0.54 | 0.17 | 4.4 |
| 5/3/2015 | 14:47:48 | 59.06 | 54.56 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 | 14:47:52 | 59.38 | 54.88 | 96 | 0.54 | 0.17 | 5.3 |
| 5/3/2015 | 14:47:55 | 59.71 | 55.21 | 113 | 0.54 | 0.17 | 6.2 |
| 5/3/2015 | 14:47:57 | 59.96 | 55.46 | 119 | 0.54 | 0.17 | 6.5 |

## P67 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
ReDrilled

**Start Date:**
5/3/2015 14:44:43

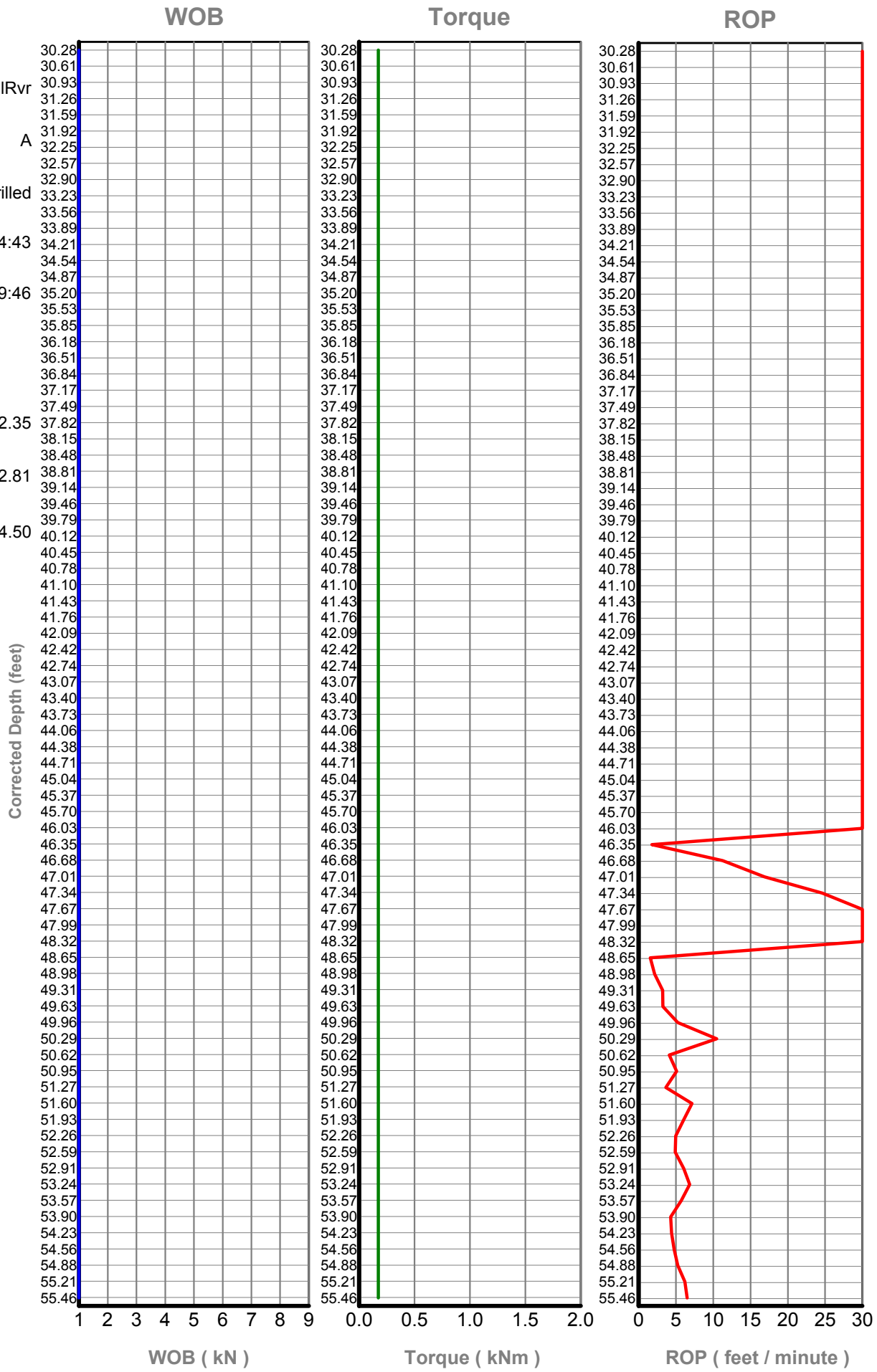
**End Date:**
5/3/2015 14:49:46

**Operator Note:**
'4.5 Auto Complete'

**Northing:**
349,072.35

**Easting:**
224,462.81

**Tide (feet):**
4.50



## Hole: P68 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:32:58 | 35.11 | 30.31 | 1,316 | 0.25 | 0.39 | 72.0 |
| 5/3/2015 14:32:58 | 35.43 | 30.63 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 14:32:59 | 35.76 | 30.96 | 1,316 | 0.26 | 0.37 | 72.0 |
| 5/3/2015 14:32:59 | 36.09 | 31.29 | 1,316 | 0.26 | 0.39 | 72.0 |
| 5/3/2015 14:32:59 | 36.42 | 31.62 | 1,316 | 0.26 | 0.39 | 72.0 |
| 5/3/2015 14:32:59 | 36.75 | 31.95 | 1,319 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 14:33:00 | 37.07 | 32.27 | 1,319 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 14:33:00 | 37.40 | 32.60 | 1,313 | 0.26 | 0.40 | 71.8 |
| 5/3/2015 14:33:00 | 37.73 | 32.93 | 1,313 | 0.26 | 0.40 | 71.8 |
| 5/3/2015 14:33:00 | 38.06 | 33.26 | 1,320 | 0.33 | 0.39 | 72.2 |
| 5/3/2015 14:33:01 | 38.39 | 33.59 | 1,320 | 0.33 | 0.39 | 72.2 |
| 5/3/2015 14:33:01 | 38.71 | 33.91 | 1,304 | 0.23 | 0.38 | 71.3 |
| 5/3/2015 14:33:01 | 39.04 | 34.24 | 1,304 | 0.23 | 0.38 | 71.3 |
| 5/3/2015 14:33:01 | 39.37 | 34.57 | 1,309 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 14:33:02 | 39.70 | 34.90 | 1,309 | 0.26 | 0.38 | 71.6 |
| 5/3/2015 14:33:02 | 40.03 | 35.23 | 1,304 | 0.29 | 0.37 | 71.3 |
| 5/3/2015 14:33:03 | 40.35 | 35.55 | 1,304 | 0.29 | 0.37 | 71.3 |
| 5/3/2015 14:33:03 | 40.68 | 35.88 | 1,307 | 0.27 | 0.38 | 71.4 |
| 5/3/2015 14:33:03 | 41.01 | 36.21 | 1,307 | 0.27 | 0.38 | 71.4 |
| 5/3/2015 14:33:03 | 41.34 | 36.54 | 1,297 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 14:33:04 | 41.67 | 36.87 | 1,297 | 0.26 | 0.39 | 70.9 |
| 5/3/2015 14:33:04 | 41.99 | 37.19 | 1,319 | 0.26 | 0.39 | 72.1 |
| 5/3/2015 14:33:04 | 42.32 | 37.52 | 1,311 | 0.26 | 0.37 | 71.7 |
| 5/3/2015 14:33:05 | 42.65 | 37.85 | 1,311 | 0.26 | 0.37 | 71.7 |
| 5/3/2015 14:33:05 | 42.98 | 38.18 | 1,311 | 0.26 | 0.39 | 71.7 |
| 5/3/2015 14:33:05 | 43.31 | 38.51 | 1,311 | 0.26 | 0.39 | 71.7 |
| 5/3/2015 14:33:05 | 43.64 | 38.84 | 1,303 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 14:33:06 | 43.96 | 39.16 | 1,303 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 14:33:06 | 44.29 | 39.49 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 14:33:06 | 44.62 | 39.82 | 1,324 | 0.26 | 0.38 | 72.4 |
| 5/3/2015 14:33:06 | 44.95 | 40.15 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 14:33:07 | 45.28 | 40.48 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 14:33:07 | 45.60 | 40.80 | 1,315 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 14:33:07 | 45.93 | 41.13 | 1,315 | 0.26 | 0.39 | 71.9 |
| 5/3/2015 14:33:07 | 46.26 | 41.46 | 1,318 | 0.27 | 0.39 | 72.1 |
| 5/3/2015 14:33:08 | 46.59 | 41.79 | 1,318 | 0.27 | 0.39 | 72.1 |
| 5/3/2015 14:33:08 | 46.92 | 42.12 | 1,332 | 0.24 | 0.40 | 72.8 |
| 5/3/2015 14:33:08 | 47.24 | 42.44 | 1,332 | 0.24 | 0.40 | 72.8 |
| 5/3/2015 14:33:08 | 47.57 | 42.77 | 1,321 | 0.29 | 0.37 | 72.2 |
| 5/3/2015 14:33:09 | 47.90 | 43.10 | 1,321 | 0.29 | 0.37 | 72.2 |
| 5/3/2015 14:33:09 | 48.23 | 43.43 | 1,321 | 0.27 | 0.37 | 72.2 |
| 5/3/2015 14:33:09 | 48.56 | 43.76 | 1,321 | 0.27 | 0.37 | 72.2 |
| 5/3/2015 14:33:09 | 48.88 | 44.08 | 1,314 | 0.26 | 0.37 | 71.8 |
| 5/3/2015 14:33:10 | 49.21 | 44.41 | 1,314 | 0.26 | 0.37 | 71.8 |
| 5/3/2015 14:33:10 | 49.54 | 44.74 | 1,327 | 0.26 | 0.40 | 72.6 |
| 5/3/2015 14:33:10 | 49.87 | 45.07 | 1,327 | 0.26 | 0.40 | 72.6 |
| 5/3/2015 14:33:10 | 50.20 | 45.40 | 1,316 | 0.24 | 0.39 | 72.0 |
| 5/3/2015 14:33:18 | 50.53 | 45.73 | 0 | 2.44 | 0.43 | 0.0 |
| 5/3/2015 14:33:20 | 50.85 | 46.05 | 190 | 2.55 | 0.48 | 10.4 |
| 5/3/2015 14:33:25 | 51.18 | 46.38 | 69 | 2.52 | 0.48 | 3.8 |
| 5/3/2015 14:33:31 | 51.51 | 46.71 | 37 | 2.91 | 0.49 | 2.0 |
| 5/3/2015 14:33:37 | 51.84 | 47.04 | 67 | 3.03 | 0.49 | 3.7 |
| 5/3/2015 14:33:42 | 52.17 | 47.37 | 64 | 3.03 | 0.48 | 3.5 |
| 5/3/2015 14:33:48 | 52.49 | 47.69 | 56 | 3.18 | 0.48 | 3.0 |
| 5/3/2015 14:33:55 | 52.82 | 48.02 | 55 | 2.99 | 0.48 | 3.0 |
| 5/3/2015 14:33:59 | 53.09 | 48.29 | 67 | 3.04 | 0.49 | 3.7 |

## P68 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:31:18

**End Date:**
5/3/2015 14:35:07

**Operator Note:**
'4.8 4.9 b Auto Complete'

**Northing:**
349,112.77

**Easting:**
224,526.02

**Tide (feet):**
4.80



## Hole: P69 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:32:11 | 35.11 | 30.31 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:12 | 35.43 | 30.63 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:12 | 35.76 | 30.96 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:12 | 36.09 | 31.29 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:13 | 36.42 | 31.62 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:13 | 36.75 | 31.95 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:32:13 | 37.07 | 32.27 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:32:13 | 37.40 | 32.60 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 14:32:14 | 37.73 | 32.93 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:14 | 38.06 | 33.26 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:14 | 38.39 | 33.59 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:32:15 | 38.71 | 33.91 | 1,175 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:32:15 | 39.04 | 34.24 | 1,162 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:32:15 | 39.37 | 34.57 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:16 | 39.70 | 34.90 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:16 | 40.03 | 35.23 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:16 | 40.35 | 35.55 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:16 | 40.68 | 35.88 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:32:17 | 41.01 | 36.21 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:32:17 | 41.34 | 36.54 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:32:17 | 41.67 | 36.87 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:18 | 41.99 | 37.19 | 1,166 | 1.14 | 0.29 | 63.8 |
| 5/3/2015 14:32:18 | 42.32 | 37.52 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:19 | 42.65 | 37.85 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:32:19 | 42.98 | 38.18 | 1,156 | 1.14 | 0.29 | 63.2 |
| 5/3/2015 14:32:19 | 43.31 | 38.51 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:32:20 | 43.64 | 38.84 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:32:20 | 43.96 | 39.16 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:32:20 | 44.29 | 39.49 | 1,153 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:32:20 | 44.62 | 39.82 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:32:21 | 44.95 | 40.15 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 14:32:21 | 45.28 | 40.48 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 14:32:21 | 45.60 | 40.80 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 14:32:22 | 45.93 | 41.13 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 14:32:22 | 46.26 | 41.46 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 14:32:22 | 46.59 | 41.79 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 14:32:23 | 46.92 | 42.12 | 1,160 | 1.14 | 0.29 | 63.4 |
| 5/3/2015 14:32:40 | 47.24 | 42.44 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 14:32:41 | 47.57 | 42.77 | 131 | 1.14 | 0.29 | 7.2 |
| 5/3/2015 14:32:42 | 47.90 | 43.10 | 314 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 14:32:44 | 48.23 | 43.43 | 207 | 1.14 | 0.29 | 11.3 |
| 5/3/2015 14:32:50 | 48.56 | 43.76 | 29 | 1.14 | 0.29 | 1.6 |
| 5/3/2015 14:33:10 | 48.88 | 44.08 | 24 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 14:33:20 | 49.21 | 44.41 | 63 | 1.14 | 0.29 | 3.4 |
| 5/3/2015 14:33:35 | 49.54 | 44.74 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 14:33:38 | 49.87 | 45.07 | 106 | 1.14 | 0.29 | 5.8 |
| 5/3/2015 14:33:41 | 50.20 | 45.40 | 119 | 1.14 | 0.29 | 6.5 |
| 5/3/2015 14:33:45 | 50.53 | 45.73 | 99 | 1.14 | 0.29 | 5.4 |
| 5/3/2015 14:33:51 | 50.85 | 46.05 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 14:33:59 | 51.18 | 46.38 | 37 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 14:36:08 | 51.51 | 46.71 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 14:37:21 | 51.76 | 46.96 | 13 | 1.14 | 0.29 | 0.7 |

## P69 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:31:14

**End Date:**
5/3/2015 14:41:10

**Operator Note:**
'4.8 4.9 c Auto Complete'

**Northing:**
349,153.10

**Easting:**
224,589.20

**Tide (feet):**
4.80



## Hole: P7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:36:16 | 33.46 | 30.16 | 1,375 | 0.54 | 0.17 | 75.2 |
| 5/3/2015 4:36:16 | 33.79 | 30.49 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 4:36:17 | 34.12 | 30.82 | 1,372 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 4:36:17 | 34.45 | 31.15 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 4:36:17 | 34.78 | 31.48 | 1,355 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 4:36:17 | 35.11 | 31.81 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:17 | 35.43 | 32.13 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:18 | 35.76 | 32.46 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:18 | 36.09 | 32.79 | 1,358 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:18 | 36.42 | 33.12 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 4:36:19 | 36.75 | 33.45 | 1,364 | 0.54 | 0.17 | 74.6 |
| 5/3/2015 4:36:19 | 37.07 | 33.77 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:19 | 37.40 | 34.10 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:19 | 37.73 | 34.43 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 4:36:20 | 38.06 | 34.76 | 1,351 | 0.54 | 0.17 | 73.9 |
| 5/3/2015 4:36:20 | 38.39 | 35.09 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:20 | 38.71 | 35.41 | 1,356 | 0.54 | 0.17 | 74.2 |
| 5/3/2015 4:36:20 | 39.04 | 35.74 | 1,371 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 4:36:21 | 39.37 | 36.07 | 1,371 | 0.54 | 0.17 | 75.0 |
| 5/3/2015 4:36:21 | 39.70 | 36.40 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 4:36:21 | 40.03 | 36.73 | 1,356 | 0.54 | 0.17 | 74.1 |
| 5/3/2015 4:36:21 | 40.35 | 37.05 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 4:36:22 | 40.68 | 37.38 | 1,353 | 0.54 | 0.17 | 74.0 |
| 5/3/2015 4:36:22 | 41.01 | 37.71 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 4:36:22 | 41.34 | 38.04 | 1,358 | 0.54 | 0.17 | 74.3 |
| 5/3/2015 4:36:27 | 41.67 | 38.37 | 18 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 4:36:37 | 41.99 | 38.69 | 31 | 0.54 | 0.17 | 1.7 |
| 5/3/2015 4:36:38 | 42.32 | 39.02 | 176 | 0.54 | 0.17 | 9.6 |
| 5/3/2015 4:36:49 | 42.65 | 39.35 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 4:36:50 | 42.98 | 39.68 | 153 | 0.54 | 0.17 | 8.4 |
| 5/3/2015 4:36:56 | 43.31 | 40.01 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 4:37:06 | 43.64 | 40.34 | 106 | 0.54 | 0.17 | 5.8 |
| 5/3/2015 4:37:08 | 43.96 | 40.66 | 83 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 4:37:33 | 44.29 | 40.99 | 12 | 0.54 | 0.17 | 0.6 |
| 5/3/2015 4:37:38 | 44.62 | 41.32 | 73 | 0.54 | 0.17 | 4.0 |
| 5/3/2015 4:37:38 | 44.95 | 41.65 | 124 | 0.54 | 0.17 | 6.8 |
| 5/3/2015 4:37:39 | 45.28 | 41.98 | 277 | 0.54 | 0.17 | 15.1 |
| 5/3/2015 4:37:40 | 45.60 | 42.30 | 453 | 0.54 | 0.17 | 24.8 |
| 5/3/2015 4:37:43 | 45.93 | 42.63 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 4:37:45 | 46.26 | 42.96 | 167 | 0.54 | 0.17 | 9.1 |
| 5/3/2015 4:38:01 | 46.59 | 43.29 | 65 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 4:38:03 | 46.92 | 43.62 | 166 | 0.54 | 0.17 | 9.1 |
| 5/3/2015 4:38:04 | 47.24 | 43.94 | 314 | 0.54 | 0.17 | 17.1 |
| 5/3/2015 4:38:04 | 47.57 | 44.27 | 314 | 0.54 | 0.17 | 17.1 |
| 5/3/2015 4:38:04 | 47.90 | 44.60 | 481 | 0.54 | 0.17 | 26.3 |
| 5/3/2015 4:38:05 | 48.23 | 44.93 | 647 | 0.54 | 0.17 | 35.4 |
| 5/3/2015 4:38:05 | 48.56 | 45.26 | 647 | 0.54 | 0.17 | 35.4 |
| 5/3/2015 4:38:05 | 48.88 | 45.58 | 799 | 0.54 | 0.17 | 43.7 |
| 5/3/2015 4:38:06 | 49.21 | 45.91 | 799 | 0.54 | 0.17 | 43.7 |
| 5/3/2015 4:38:23 | 49.54 | 46.24 | 86 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 4:38:24 | 49.87 | 46.57 | 208 | 0.54 | 0.17 | 11.4 |
| 5/3/2015 4:38:25 | 50.20 | 46.90 | 370 | 0.54 | 0.17 | 20.2 |
| 5/3/2015 4:38:25 | 50.53 | 47.23 | 375 | 0.54 | 0.17 | 20.5 |
| 5/3/2015 4:38:27 | 50.85 | 47.55 | 416 | 0.54 | 0.17 | 22.7 |
| 5/3/2015 4:38:28 | 51.18 | 47.88 | 402 | 0.54 | 0.17 | 22.0 |
| 5/3/2015 4:41:08 | 51.51 | 48.21 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 4:41:10 | 51.84 | 48.54 | 122 | 0.54 | 0.17 | 6.7 |
| 5/3/2015 4:41:11 | 52.17 | 48.87 | 217 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 4:41:12 | 52.49 | 49.19 | 309 | 0.54 | 0.17 | 16.9 |
| 5/3/2015 4:41:13 | 52.82 | 49.52 | 319 | 0.54 | 0.17 | 17.4 |
| 5/3/2015 4:41:14 | 53.15 | 49.85 | 376 | 0.54 | 0.17 | 20.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:45:33 | 53.48 | 50.18 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 4:45:35 | 53.81 | 50.51 | 139 | 0.54 | 0.17 | 7.6 |
| 5/3/2015 | 4:45:37 | 54.13 | 50.83 | 182 | 0.54 | 0.17 | 10.0 |
| 5/3/2015 | 4:45:39 | 54.46 | 51.16 | 218 | 0.54 | 0.17 | 11.9 |
| 5/3/2015 | 4:49:06 | 54.79 | 51.49 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 | 4:49:08 | 55.12 | 51.82 | 226 | 0.54 | 0.17 | 12.4 |
| 5/3/2015 | 4:49:09 | 55.45 | 52.15 | 305 | 0.54 | 0.17 | 16.7 |
| 5/3/2015 | 4:49:10 | 55.77 | 52.47 | 308 | 0.54 | 0.17 | 16.9 |
| 5/3/2015 | 4:50:30 | 56.10 | 52.80 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 | 4:50:50 | 56.43 | 53.13 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 | 4:50:58 | 56.76 | 53.46 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 | 4:51:05 | 57.09 | 53.79 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 | 4:53:15 | 57.41 | 54.11 | 52 | 0.54 | 0.17 | 2.9 |
| 5/3/2015 | 4:55:20 | 57.74 | 54.44 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 4:55:25 | 58.07 | 54.77 | 37 | 0.54 | 0.17 | 2.0 |
| 5/3/2015 | 4:55:33 | 58.28 | 54.98 | 35 | 0.54 | 0.17 | 1.9 |

## P7 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 4:25:31

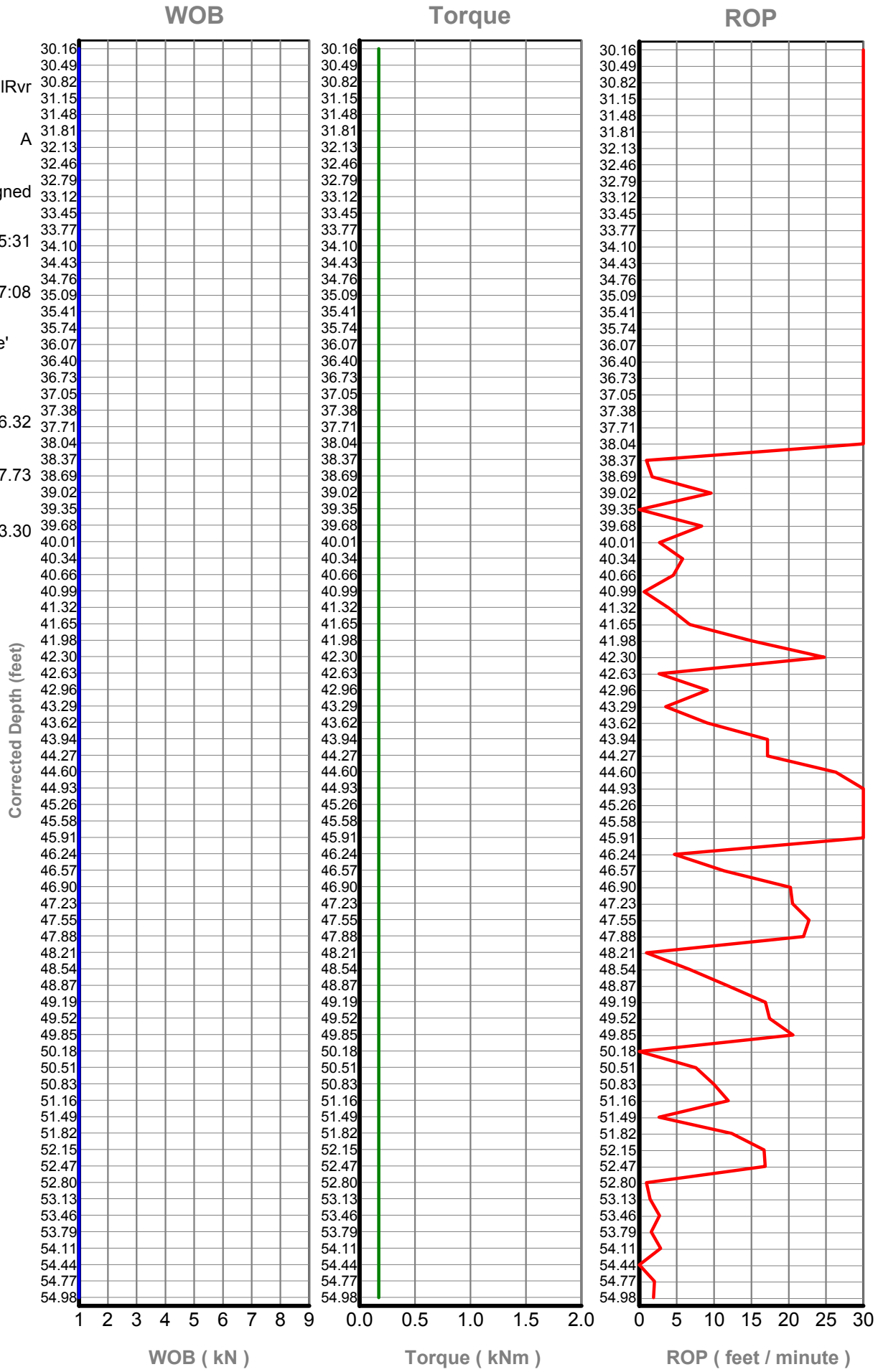
**End Date:**
5/3/2015 4:57:08

**Operator Note:**
'3.3 3.3 a Auto Complete'

**Northing:**
349,496.32

**Easting:**
224,727.73

**Tide (feet):**
3.30



## Hole: P70 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:24:45 | 31.82 | 30.22 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:45 | 32.15 | 30.55 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:46 | 32.48 | 30.88 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:46 | 32.81 | 31.21 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 6:24:46 | 33.14 | 31.54 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 6:24:46 | 33.46 | 31.86 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:47 | 33.79 | 32.19 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:47 | 34.12 | 32.52 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:47 | 34.45 | 32.85 | 1,247 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:47 | 34.78 | 33.18 | 1,243 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 6:24:48 | 35.11 | 33.51 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:48 | 35.43 | 33.83 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:48 | 35.76 | 34.16 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:49 | 36.09 | 34.49 | 1,248 | 0.54 | 0.17 | 68.2 |
| 5/3/2015 6:24:49 | 36.42 | 34.82 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:50 | 36.75 | 35.15 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:50 | 37.07 | 35.47 | 1,242 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:50 | 37.40 | 35.80 | 1,242 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:50 | 37.73 | 36.13 | 1,242 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:51 | 38.06 | 36.46 | 1,241 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:51 | 38.39 | 36.79 | 1,241 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:51 | 38.71 | 37.11 | 1,234 | 0.54 | 0.17 | 67.5 |
| 5/3/2015 6:24:52 | 39.04 | 37.44 | 1,234 | 0.54 | 0.17 | 67.5 |
| 5/3/2015 6:24:52 | 39.37 | 37.77 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 6:24:52 | 39.70 | 38.10 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 6:24:52 | 40.03 | 38.43 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:53 | 40.35 | 38.75 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:53 | 40.68 | 39.08 | 1,241 | 0.54 | 0.17 | 67.9 |
| 5/3/2015 6:24:53 | 41.01 | 39.41 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:54 | 41.34 | 39.74 | 1,245 | 0.54 | 0.17 | 68.1 |
| 5/3/2015 6:24:54 | 41.67 | 40.07 | 1,239 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 6:24:54 | 41.99 | 40.39 | 1,239 | 0.54 | 0.17 | 67.8 |
| 5/3/2015 6:24:54 | 42.32 | 40.72 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:55 | 42.65 | 41.05 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:55 | 42.98 | 41.38 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:55 | 43.31 | 41.71 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:55 | 43.64 | 42.04 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 6:24:56 | 43.96 | 42.36 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:56 | 44.29 | 42.69 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 6:24:56 | 44.62 | 43.02 | 1,238 | 0.54 | 0.17 | 67.7 |
| 5/3/2015 6:25:14 | 44.95 | 43.35 | 9 | 0.54 | 0.17 | 0.5 |
| 5/3/2015 6:25:16 | 45.28 | 43.68 | 98 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 6:25:19 | 45.60 | 44.00 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 6:25:20 | 45.93 | 44.33 | 77 | 0.54 | 0.17 | 4.2 |
| 5/3/2015 6:25:21 | 46.26 | 44.66 | 263 | 0.54 | 0.17 | 14.4 |
| 5/3/2015 6:25:22 | 46.59 | 44.99 | 336 | 0.54 | 0.17 | 18.4 |
| 5/3/2015 6:25:24 | 46.92 | 45.32 | 222 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 6:25:26 | 47.24 | 45.64 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 6:25:29 | 47.57 | 45.97 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 6:25:33 | 47.90 | 46.30 | 84 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 6:27:41 | 48.23 | 46.63 | 46 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 6:27:47 | 48.56 | 46.96 | 44 | 0.54 | 0.17 | 2.4 |
| 5/3/2015 6:28:19 | 48.88 | 47.28 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 6:28:26 | 49.21 | 47.61 | 64 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 6:28:33 | 49.54 | 47.94 | 45 | 0.54 | 0.17 | 2.5 |
| 5/3/2015 6:28:40 | 49.87 | 48.27 | 71 | 0.54 | 0.17 | 3.9 |
| 5/3/2015 6:28:45 | 50.20 | 48.60 | 81 | 0.54 | 0.17 | 4.5 |
| 5/3/2015 6:28:49 | 50.53 | 48.93 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 6:28:54 | 50.85 | 49.25 | 61 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 6:29:01 | 51.18 | 49.58 | 61 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 6:29:05 | 51.51 | 49.91 | 80 | 0.54 | 0.17 | 4.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 6:29:10 | 51.84 | 50.24 | 70 | 0.54 | 0.17 | 3.8 |
| 5/3/2015 | 6:29:14 | 52.17 | 50.57 | 85 | 0.54 | 0.17 | 4.7 |
| 5/3/2015 | 6:29:16 | 52.30 | 50.70 | 85 | 0.54 | 0.17 | 4.6 |

## P70 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:22:56

**End Date:**
5/3/2015 6:31:58

**Operator Note:**
'1.6 1.7 a Auto Complete'

**Northing:**
349,192.51

**Easting:**
224,652.13

**Tide (feet):**
1.60



## Hole: P71 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:25:10 | 31.82 | 30.22 | 1,166 | 0.33 | 0.39 | 63.8 |
| 5/3/2015 6:25:10 | 32.15 | 30.55 | 1,166 | 0.33 | 0.39 | 63.8 |
| 5/3/2015 6:25:10 | 32.48 | 30.88 | 1,146 | 0.33 | 0.39 | 62.7 |
| 5/3/2015 6:25:11 | 32.81 | 31.21 | 1,164 | 0.33 | 0.39 | 63.6 |
| 5/3/2015 6:25:11 | 33.14 | 31.54 | 1,164 | 0.33 | 0.39 | 63.6 |
| 5/3/2015 6:25:11 | 33.46 | 31.86 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 6:25:12 | 33.79 | 32.19 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 6:25:12 | 34.12 | 32.52 | 1,164 | 0.33 | 0.38 | 63.6 |
| 5/3/2015 6:25:12 | 34.45 | 32.85 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/3/2015 6:25:13 | 34.78 | 33.18 | 1,163 | 0.33 | 0.38 | 63.6 |
| 5/3/2015 6:25:13 | 35.11 | 33.51 | 1,182 | 0.33 | 0.38 | 64.7 |
| 5/3/2015 6:25:13 | 35.43 | 33.83 | 1,182 | 0.33 | 0.38 | 64.7 |
| 5/3/2015 6:25:13 | 35.76 | 34.16 | 1,162 | 0.33 | 0.39 | 63.5 |
| 5/3/2015 6:25:14 | 36.09 | 34.49 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 6:25:14 | 36.42 | 34.82 | 1,162 | 0.33 | 0.38 | 63.5 |
| 5/3/2015 6:25:14 | 36.75 | 35.15 | 1,165 | 0.33 | 0.39 | 63.7 |
| 5/3/2015 6:25:15 | 37.07 | 35.47 | 1,165 | 0.33 | 0.39 | 63.7 |
| 5/3/2015 6:25:15 | 37.40 | 35.80 | 1,168 | 0.33 | 0.39 | 63.9 |
| 5/3/2015 6:25:15 | 37.73 | 36.13 | 1,168 | 0.33 | 0.39 | 63.9 |
| 5/3/2015 6:25:15 | 38.06 | 36.46 | 1,168 | 0.33 | 0.39 | 63.9 |
| 5/3/2015 6:25:16 | 38.39 | 36.79 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/3/2015 6:25:16 | 38.71 | 37.11 | 1,168 | 0.33 | 0.38 | 63.9 |
| 5/3/2015 6:25:16 | 39.04 | 37.44 | 1,167 | 0.33 | 0.38 | 63.8 |
| 5/3/2015 6:25:17 | 39.37 | 37.77 | 1,167 | 0.33 | 0.38 | 63.8 |
| 5/3/2015 6:25:17 | 39.70 | 38.10 | 1,177 | 0.33 | 0.38 | 64.3 |
| 5/3/2015 6:25:18 | 40.03 | 38.43 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/3/2015 6:25:18 | 40.35 | 38.75 | 1,174 | 0.33 | 0.38 | 64.2 |
| 5/3/2015 6:25:18 | 40.68 | 39.08 | 1,142 | 0.33 | 0.39 | 62.5 |
| 5/3/2015 6:25:19 | 41.01 | 39.41 | 1,142 | 0.33 | 0.39 | 62.5 |
| 5/3/2015 6:25:19 | 41.34 | 39.74 | 1,142 | 0.33 | 0.38 | 62.5 |
| 5/3/2015 6:25:19 | 41.67 | 40.07 | 1,142 | 0.33 | 0.38 | 62.5 |
| 5/3/2015 6:25:19 | 41.99 | 40.39 | 1,165 | 0.33 | 0.38 | 63.7 |
| 5/3/2015 6:25:20 | 42.32 | 40.72 | 1,169 | 0.33 | 0.38 | 63.9 |
| 5/3/2015 6:25:20 | 42.65 | 41.05 | 1,169 | 0.33 | 0.38 | 63.9 |
| 5/3/2015 6:25:20 | 42.98 | 41.38 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/3/2015 6:25:21 | 43.31 | 41.71 | 1,159 | 0.33 | 0.38 | 63.4 |
| 5/3/2015 6:25:21 | 43.64 | 42.04 | 1,153 | 0.33 | 0.38 | 63.0 |
| 5/3/2015 6:25:21 | 43.96 | 42.36 | 1,194 | 0.33 | 0.38 | 65.3 |
| 5/3/2015 6:25:22 | 44.29 | 42.69 | 1,194 | 0.33 | 0.38 | 65.3 |
| 5/3/2015 6:25:22 | 44.62 | 43.02 | 1,172 | 0.33 | 0.38 | 64.1 |
| 5/3/2015 6:25:22 | 44.95 | 43.35 | 1,172 | 0.33 | 0.38 | 64.1 |
| 5/3/2015 6:25:22 | 45.28 | 43.68 | 1,172 | 0.33 | 0.38 | 64.1 |
| 5/3/2015 6:25:23 | 45.60 | 44.00 | 1,172 | 0.33 | 0.38 | 64.1 |
| 5/3/2015 6:25:23 | 45.93 | 44.33 | 1,169 | 0.31 | 0.43 | 63.9 |
| 5/3/2015 6:25:28 | 46.26 | 44.66 | 26 | 4.02 | 0.43 | 1.4 |
| 5/3/2015 6:25:31 | 46.59 | 44.99 | 166 | 2.95 | 0.47 | 9.1 |
| 5/3/2015 6:25:35 | 46.92 | 45.32 | 80 | 2.90 | 0.47 | 4.4 |
| 5/3/2015 6:25:43 | 47.24 | 45.64 | 69 | 2.49 | 0.47 | 3.8 |
| 5/3/2015 6:25:50 | 47.57 | 45.97 | 55 | 2.96 | 0.47 | 3.0 |
| 5/3/2015 6:25:56 | 47.90 | 46.30 | 118 | 4.17 | 0.49 | 6.5 |
| 5/3/2015 6:26:11 | 48.23 | 46.63 | 101 | 3.26 | 0.48 | 5.5 |
| 5/3/2015 6:26:15 | 48.56 | 46.96 | 87 | 7.91 | 0.46 | 4.8 |
| 5/3/2015 6:26:17 | 48.88 | 47.28 | 134 | 3.90 | 0.47 | 7.3 |
| 5/3/2015 6:26:21 | 49.21 | 47.61 | 104 | 3.37 | 0.47 | 5.7 |
| 5/3/2015 6:26:25 | 49.54 | 47.94 | 87 | 3.14 | 0.47 | 4.7 |
| 5/3/2015 6:26:31 | 49.87 | 48.27 | 46 | 3.02 | 0.48 | 2.5 |
| 5/3/2015 6:26:45 | 50.20 | 48.60 | 29 | 2.97 | 0.48 | 1.6 |
| 5/3/2015 6:26:57 | 50.53 | 48.93 | 29 | 3.33 | 0.48 | 1.6 |
| 5/3/2015 6:27:02 | 50.71 | 49.11 | 41 | 3.00 | 0.48 | 2.2 |

## P71 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:23:45

**End Date:**
5/3/2015 6:28:51

**Operator Note:**
'1.6 1.7b Auto Complete'

**Northing:**
349,231.57

**Easting:**
224,716.16

**Tide (feet):**
1.60



## Hole: P72 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 6:23:42 | 31.82 | 30.22 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 6:23:42 | 32.15 | 30.55 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 6:23:42 | 32.48 | 30.88 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 6:23:43 | 32.81 | 31.21 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:43 | 33.14 | 31.54 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:43 | 33.46 | 31.86 | 1,036 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:44 | 33.79 | 32.19 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 6:23:44 | 34.12 | 32.52 | 1,034 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 6:23:44 | 34.45 | 32.85 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/3/2015 6:23:45 | 34.78 | 33.18 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 6:23:45 | 35.11 | 33.51 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 6:23:45 | 35.43 | 33.83 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:46 | 35.76 | 34.16 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:23:46 | 36.09 | 34.49 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/3/2015 6:23:46 | 36.42 | 34.82 | 1,045 | 1.14 | 0.29 | 57.1 |
| 5/3/2015 6:23:47 | 36.75 | 35.15 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:47 | 37.07 | 35.47 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:47 | 37.40 | 35.80 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 6:23:48 | 37.73 | 36.13 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 6:23:48 | 38.06 | 36.46 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/3/2015 6:23:48 | 38.39 | 36.79 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 6:23:49 | 38.71 | 37.11 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:49 | 39.04 | 37.44 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:49 | 39.37 | 37.77 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/3/2015 6:23:50 | 39.70 | 38.10 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 6:23:51 | 40.03 | 38.43 | 1,032 | 1.14 | 0.29 | 56.4 |
| 5/3/2015 6:23:50 | 40.35 | 38.75 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/3/2015 6:23:51 | 40.68 | 39.08 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 6:23:52 | 41.01 | 39.41 | 1,033 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 6:23:52 | 41.34 | 39.74 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 6:23:52 | 41.67 | 40.07 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 6:23:53 | 41.99 | 40.39 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 6:23:53 | 42.32 | 40.72 | 1,036 | 1.14 | 0.29 | 56.7 |
| 5/3/2015 6:23:53 | 42.65 | 41.05 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 6:23:54 | 42.98 | 41.38 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/3/2015 6:23:54 | 43.31 | 41.71 | 1,032 | 1.14 | 0.29 | 56.5 |
| 5/3/2015 6:23:54 | 43.64 | 42.04 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 6:23:55 | 43.96 | 42.36 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 6:23:55 | 44.29 | 42.69 | 1,029 | 1.14 | 0.29 | 56.3 |
| 5/3/2015 6:24:06 | 44.62 | 43.02 | 31 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 6:24:07 | 44.95 | 43.35 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 6:24:08 | 45.28 | 43.68 | 338 | 1.14 | 0.29 | 18.5 |
| 5/3/2015 6:24:09 | 45.60 | 44.00 | 323 | 1.14 | 0.29 | 17.7 |
| 5/3/2015 6:24:16 | 45.93 | 44.33 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 6:24:17 | 46.26 | 44.66 | 134 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 6:24:17 | 46.59 | 44.99 | 225 | 1.14 | 0.29 | 12.3 |
| 5/3/2015 6:24:18 | 46.92 | 45.32 | 385 | 1.14 | 0.29 | 21.1 |
| 5/3/2015 6:24:28 | 47.24 | 45.64 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 6:24:46 | 47.57 | 45.97 | 36 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 6:25:08 | 47.90 | 46.30 | 12 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 6:25:27 | 48.23 | 46.63 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 6:25:31 | 48.56 | 46.96 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 6:25:39 | 48.88 | 47.28 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 6:25:44 | 49.21 | 47.61 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 6:25:49 | 49.54 | 47.94 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 6:25:57 | 49.87 | 48.27 | 17 | 1.14 | 0.29 | 1.0 |
| 5/3/2015 6:26:03 | 50.20 | 48.60 | 75 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 6:26:08 | 50.53 | 48.93 | 69 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 6:26:13 | 50.85 | 49.25 | 78 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 6:26:18 | 51.18 | 49.58 | 70 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 6:26:24 | 51.51 | 49.91 | 61 | 1.14 | 0.29 | 3.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 6:26:31 | 51.84 | 50.24 | 43 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 | 6:26:39 | 52.17 | 50.57 | 49 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 | 6:26:44 | 52.41 | 50.81 | 44 | 1.14 | 0.29 | 2.4 |

## P72 - Summary

**Pattern Number:**
AreaP_Lane6-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 6:22:45

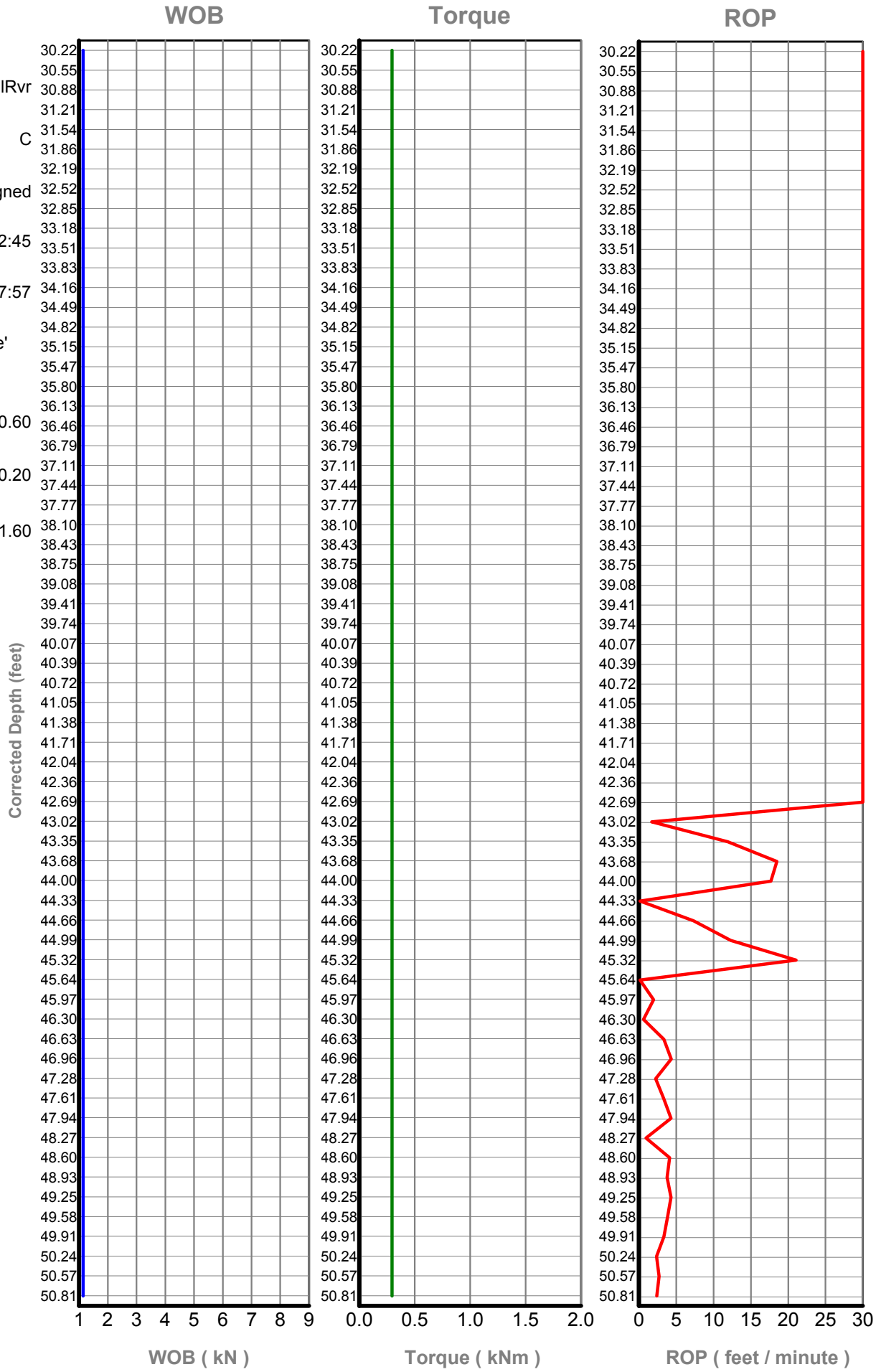
**End Date:**
5/3/2015 6:27:57

**Operator Note:**
'1.6 1.7 c Auto Complete'

**Northing:**
349,270.60

**Easting:**
224,780.20

**Tide (feet):**
1.60



## Hole: P73 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:13:01 | 35.11 | 30.31 | 1,228 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 3:13:01 | 35.43 | 30.63 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:01 | 35.76 | 30.96 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:02 | 36.09 | 31.29 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:02 | 36.42 | 31.62 | 1,233 | 0.54 | 0.17 | 67.4 |
| 5/3/2015 3:13:02 | 36.75 | 31.95 | 1,233 | 0.54 | 0.17 | 67.4 |
| 5/3/2015 3:13:02 | 37.07 | 32.27 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 3:13:03 | 37.40 | 32.60 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 3:13:03 | 37.73 | 32.93 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 3:13:03 | 38.06 | 33.26 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/3/2015 3:13:03 | 38.39 | 33.59 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:04 | 38.71 | 33.91 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:04 | 39.04 | 34.24 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:04 | 39.37 | 34.57 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:05 | 39.70 | 34.90 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:05 | 40.03 | 35.23 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:06 | 40.35 | 35.55 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:06 | 40.68 | 35.88 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:06 | 41.01 | 36.21 | 1,236 | 0.54 | 0.17 | 67.6 |
| 5/3/2015 3:13:06 | 41.34 | 36.54 | 1,229 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 3:13:07 | 41.67 | 36.87 | 1,233 | 0.54 | 0.17 | 67.4 |
| 5/3/2015 3:13:07 | 41.99 | 37.19 | 1,233 | 0.54 | 0.17 | 67.4 |
| 5/3/2015 3:13:07 | 42.32 | 37.52 | 1,226 | 0.54 | 0.17 | 67.0 |
| 5/3/2015 3:13:08 | 42.65 | 37.85 | 1,226 | 0.54 | 0.17 | 67.0 |
| 5/3/2015 3:13:08 | 42.98 | 38.18 | 1,230 | 0.54 | 0.17 | 67.2 |
| 5/3/2015 3:13:13 | 43.31 | 38.51 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 3:13:13 | 43.64 | 38.84 | 174 | 0.54 | 0.17 | 9.5 |
| 5/3/2015 3:13:14 | 43.96 | 39.16 | 404 | 0.54 | 0.17 | 22.1 |
| 5/3/2015 3:13:14 | 44.29 | 39.49 | 404 | 0.54 | 0.17 | 22.1 |
| 5/3/2015 3:13:14 | 44.62 | 39.82 | 623 | 0.54 | 0.17 | 34.1 |
| 5/3/2015 3:13:15 | 44.95 | 40.15 | 623 | 0.54 | 0.17 | 34.1 |
| 5/3/2015 3:13:15 | 45.28 | 40.48 | 853 | 0.54 | 0.17 | 46.7 |
| 5/3/2015 3:13:15 | 45.60 | 40.80 | 1,083 | 0.54 | 0.17 | 59.2 |
| 5/3/2015 3:13:16 | 45.93 | 41.13 | 1,083 | 0.54 | 0.17 | 59.2 |
| 5/3/2015 3:13:16 | 46.26 | 41.46 | 1,131 | 0.54 | 0.17 | 61.9 |
| 5/3/2015 3:13:17 | 46.59 | 41.79 | 1,107 | 0.54 | 0.17 | 60.6 |
| 5/3/2015 3:13:30 | 46.92 | 42.12 | 87 | 0.54 | 0.17 | 4.8 |
| 5/3/2015 3:13:37 | 47.24 | 42.44 | 6 | 0.54 | 0.17 | 0.3 |
| 5/3/2015 3:13:45 | 47.57 | 42.77 | 38 | 0.54 | 0.17 | 2.1 |
| 5/3/2015 3:14:00 | 47.90 | 43.10 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 3:14:16 | 48.23 | 43.43 | 21 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 3:14:33 | 48.56 | 43.76 | 20 | 0.54 | 0.17 | 1.1 |
| 5/3/2015 3:14:43 | 48.68 | 43.88 | 15 | 0.54 | 0.17 | 0.8 |

## P73 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 2:58:22

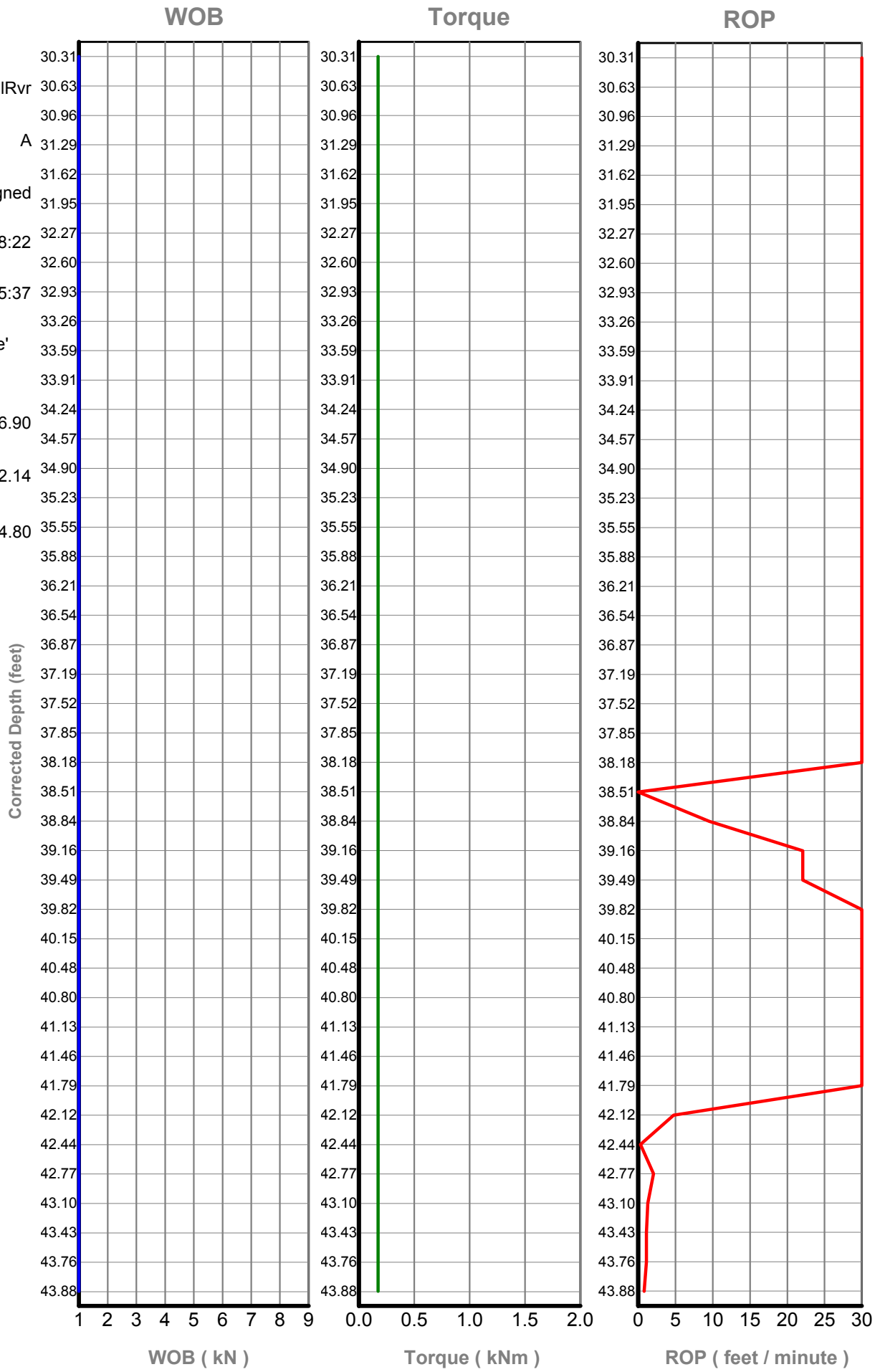
**End Date:**
5/3/2015 3:15:37

**Operator Note:**
'4.8 4.9 a Auto Complete'

**Northing:**
349,316.90

**Easting:**
224,842.14

**Tide (feet):**
4.80



## Hole: P74 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:14:04 | 34.78 | 30.08 | 1,227 | 0.30 | 0.38 | 67.1 |
| 5/3/2015 3:14:05 | 35.11 | 30.41 | 1,227 | 0.30 | 0.38 | 67.1 |
| 5/3/2015 3:14:05 | 35.43 | 30.73 | 1,214 | 0.30 | 0.39 | 66.4 |
| 5/3/2015 3:14:05 | 35.76 | 31.06 | 1,214 | 0.30 | 0.39 | 66.4 |
| 5/3/2015 3:14:05 | 36.09 | 31.39 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 3:14:06 | 36.42 | 31.72 | 1,207 | 0.31 | 0.38 | 66.0 |
| 5/3/2015 3:14:06 | 36.75 | 32.05 | 1,207 | 0.31 | 0.38 | 66.0 |
| 5/3/2015 3:14:06 | 37.07 | 32.37 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 3:14:07 | 37.40 | 32.70 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/3/2015 3:14:07 | 37.73 | 33.03 | 1,211 | 0.31 | 0.40 | 66.2 |
| 5/3/2015 3:14:07 | 38.06 | 33.36 | 1,211 | 0.31 | 0.40 | 66.2 |
| 5/3/2015 3:14:07 | 38.39 | 33.69 | 1,211 | 0.31 | 0.38 | 66.2 |
| 5/3/2015 3:14:08 | 38.71 | 34.01 | 1,211 | 0.31 | 0.38 | 66.2 |
| 5/3/2015 3:14:08 | 39.04 | 34.34 | 1,214 | 0.30 | 0.38 | 66.4 |
| 5/3/2015 3:14:08 | 39.37 | 34.67 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 3:14:09 | 39.70 | 35.00 | 1,214 | 0.31 | 0.38 | 66.4 |
| 5/3/2015 3:14:09 | 40.03 | 35.33 | 1,211 | 0.30 | 0.38 | 66.2 |
| 5/3/2015 3:14:09 | 40.35 | 35.65 | 1,211 | 0.30 | 0.38 | 66.2 |
| 5/3/2015 3:14:09 | 40.68 | 35.98 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 3:14:10 | 41.01 | 36.31 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 3:14:10 | 41.34 | 36.64 | 1,204 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 3:14:10 | 41.67 | 36.97 | 1,204 | 0.31 | 0.40 | 65.8 |
| 5/3/2015 3:14:11 | 41.99 | 37.29 | 1,204 | 0.31 | 0.40 | 65.8 |
| 5/3/2015 3:14:11 | 42.32 | 37.62 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 3:14:11 | 42.65 | 37.95 | 1,211 | 0.31 | 0.39 | 66.2 |
| 5/3/2015 3:14:11 | 42.98 | 38.28 | 1,208 | 0.31 | 0.38 | 66.1 |
| 5/3/2015 3:14:12 | 43.31 | 38.61 | 1,208 | 0.31 | 0.38 | 66.1 |
| 5/3/2015 3:14:12 | 43.64 | 38.94 | 1,211 | 0.31 | 0.38 | 66.2 |
| 5/3/2015 3:14:13 | 43.96 | 39.26 | 1,211 | 0.31 | 0.38 | 66.2 |
| 5/3/2015 3:14:13 | 44.29 | 39.59 | 1,211 | 0.31 | 0.38 | 66.2 |
| 5/3/2015 3:14:13 | 44.62 | 39.92 | 1,216 | 0.31 | 0.40 | 66.5 |
| 5/3/2015 3:14:14 | 44.95 | 40.25 | 1,216 | 0.31 | 0.40 | 66.5 |
| 5/3/2015 3:14:14 | 45.28 | 40.58 | 1,203 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 3:14:14 | 45.60 | 40.90 | 1,203 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 3:14:14 | 45.93 | 41.23 | 1,195 | 0.31 | 0.38 | 65.4 |
| 5/3/2015 3:14:15 | 46.26 | 41.56 | 1,203 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 3:14:15 | 46.59 | 41.89 | 1,203 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 3:14:15 | 46.92 | 42.22 | 1,200 | 0.31 | 0.39 | 65.6 |
| 5/3/2015 3:14:16 | 47.24 | 42.54 | 1,200 | 0.31 | 0.39 | 65.6 |
| 5/3/2015 3:14:16 | 47.57 | 42.87 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/3/2015 3:14:16 | 47.90 | 43.20 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/3/2015 3:14:16 | 48.23 | 43.53 | 1,200 | 0.29 | 0.43 | 65.6 |
| 5/3/2015 3:14:22 | 48.56 | 43.86 | 40 | 5.10 | 0.48 | 2.2 |
| 5/3/2015 3:14:34 | 48.88 | 44.18 | 6 | 3.90 | 0.46 | 0.3 |
| 5/3/2015 3:14:35 | 49.21 | 44.51 | 174 | 3.92 | 0.45 | 9.5 |
| 5/3/2015 3:14:41 | 49.54 | 44.84 | 6 | 4.10 | 0.48 | 0.3 |
| 5/3/2015 3:14:44 | 49.87 | 45.17 | 204 | 3.71 | 0.47 | 11.2 |
| 5/3/2015 3:14:47 | 50.20 | 45.50 | 0 | 3.20 | 0.45 | 0.0 |
| 5/3/2015 3:14:54 | 50.53 | 45.83 | 40 | 3.54 | 0.48 | 2.2 |
| 5/3/2015 3:15:07 | 50.85 | 46.15 | 26 | 2.97 | 0.49 | 1.4 |
| 5/3/2015 3:15:19 | 51.18 | 46.48 | 26 | 2.96 | 0.49 | 1.4 |
| 5/3/2015 3:15:32 | 51.51 | 46.81 | 26 | 2.95 | 0.48 | 1.4 |

## P74 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:12:40

**End Date:**
5/3/2015 3:17:00

**Operator Note:**
'4.7 4.9b Auto Complete'

**Northing:**
349,352.70

**Easting:**
224,908.10

**Tide (feet):**
4.70



## Hole: P75 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 3:13:20 | 34.78 | 30.08 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 3:13:20 | 35.11 | 30.41 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 3:13:20 | 35.43 | 30.73 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 3:13:21 | 35.76 | 31.06 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 3:13:21 | 36.09 | 31.39 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 3:13:21 | 36.42 | 31.72 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/3/2015 3:13:22 | 36.75 | 32.05 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 3:13:23 | 37.07 | 32.37 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 3:13:22 | 37.40 | 32.70 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:23 | 37.73 | 33.03 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:24 | 38.06 | 33.36 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:24 | 38.39 | 33.69 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:24 | 38.71 | 34.01 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:24 | 39.04 | 34.34 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 3:13:25 | 39.37 | 34.67 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:25 | 39.70 | 35.00 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:25 | 40.03 | 35.33 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 3:13:26 | 40.35 | 35.65 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 3:13:26 | 40.68 | 35.98 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 3:13:26 | 41.01 | 36.31 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:27 | 41.34 | 36.64 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 3:13:27 | 41.67 | 36.97 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:27 | 41.99 | 37.29 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:28 | 42.32 | 37.62 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/3/2015 3:13:28 | 42.65 | 37.95 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 3:13:28 | 42.98 | 38.28 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 3:13:29 | 43.31 | 38.61 | 1,074 | 1.14 | 0.29 | 58.7 |
| 5/3/2015 3:13:29 | 43.64 | 38.94 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 3:13:29 | 43.96 | 39.26 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 3:13:30 | 44.29 | 39.59 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 3:13:30 | 44.62 | 39.92 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 3:13:30 | 44.95 | 40.25 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 3:13:31 | 45.28 | 40.58 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 3:13:31 | 45.60 | 40.90 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 3:13:31 | 45.93 | 41.23 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 3:13:31 | 46.26 | 41.56 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 3:13:32 | 46.59 | 41.89 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 3:13:32 | 46.92 | 42.22 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 3:13:32 | 47.24 | 42.54 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/3/2015 3:13:33 | 47.57 | 42.87 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 3:13:33 | 47.90 | 43.20 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 3:13:54 | 48.23 | 43.53 | 66 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 3:13:55 | 48.56 | 43.86 | 166 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 3:14:04 | 48.88 | 44.18 | 60 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 3:14:05 | 49.21 | 44.51 | 158 | 1.14 | 0.29 | 8.6 |
| 5/3/2015 3:14:05 | 49.54 | 44.84 | 275 | 1.14 | 0.29 | 15.1 |
| 5/3/2015 3:14:24 | 49.87 | 45.17 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 3:14:25 | 50.20 | 45.50 | 168 | 1.14 | 0.29 | 9.2 |
| 5/3/2015 3:14:25 | 50.53 | 45.83 | 277 | 1.14 | 0.29 | 15.1 |
| 5/3/2015 3:14:26 | 50.85 | 46.15 | 354 | 1.14 | 0.29 | 19.4 |
| 5/3/2015 3:14:27 | 51.18 | 46.48 | 478 | 1.14 | 0.29 | 26.1 |
| 5/3/2015 3:14:27 | 51.51 | 46.81 | 521 | 1.14 | 0.29 | 28.5 |
| 5/3/2015 3:14:28 | 51.84 | 47.14 | 544 | 1.14 | 0.29 | 29.8 |
| 5/3/2015 3:14:28 | 52.17 | 47.47 | 556 | 1.14 | 0.29 | 30.4 |
| 5/3/2015 3:14:49 | 52.49 | 47.79 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 3:14:50 | 52.82 | 48.12 | 166 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 3:14:54 | 53.15 | 48.45 | 96 | 1.14 | 0.29 | 5.3 |
| 5/3/2015 3:15:33 | 53.48 | 48.78 | 43 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 3:17:15 | 53.81 | 49.11 | 12 | 1.14 | 0.29 | 0.6 |
| 5/3/2015 3:18:28 | 54.13 | 49.43 | 25 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 3:19:46 | 54.46 | 49.76 | 47 | 1.14 | 0.29 | 2.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 3:19:54 | 54.79 | 50.09 | 41 | 1.14 | 0.29 | 2.2 |
| 5/3/2015 | 3:20:01 | 55.12 | 50.42 | 64 | 1.14 | 0.29 | 3.5 |
| 5/3/2015 | 3:20:06 | 55.45 | 50.75 | 75 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 | 3:20:11 | 55.77 | 51.07 | 61 | 1.14 | 0.29 | 3.3 |
| 5/3/2015 | 3:20:16 | 56.10 | 51.40 | 81 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 | 3:20:21 | 56.43 | 51.73 | 76 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 | 3:20:25 | 56.76 | 52.06 | 78 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 | 3:20:29 | 57.09 | 52.39 | 80 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 | 3:20:32 | 57.41 | 52.71 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 | 3:20:37 | 57.74 | 53.04 | 74 | 1.14 | 0.29 | 4.1 |
| 5/3/2015 | 3:20:41 | 58.07 | 53.37 | 89 | 1.14 | 0.29 | 4.9 |
| 5/3/2015 | 3:20:45 | 58.40 | 53.70 | 85 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 | 3:20:49 | 58.73 | 54.03 | 79 | 1.14 | 0.29 | 4.3 |
| 5/3/2015 | 3:20:54 | 59.06 | 54.36 | 86 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 | 3:20:58 | 59.38 | 54.68 | 84 | 1.14 | 0.29 | 4.6 |
| 5/3/2015 | 3:21:02 | 59.71 | 55.01 | 92 | 1.14 | 0.29 | 5.1 |
| 5/3/2015 | 3:21:04 | 59.90 | 55.20 | 97 | 1.14 | 0.29 | 5.3 |

## P75 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 3:11:58

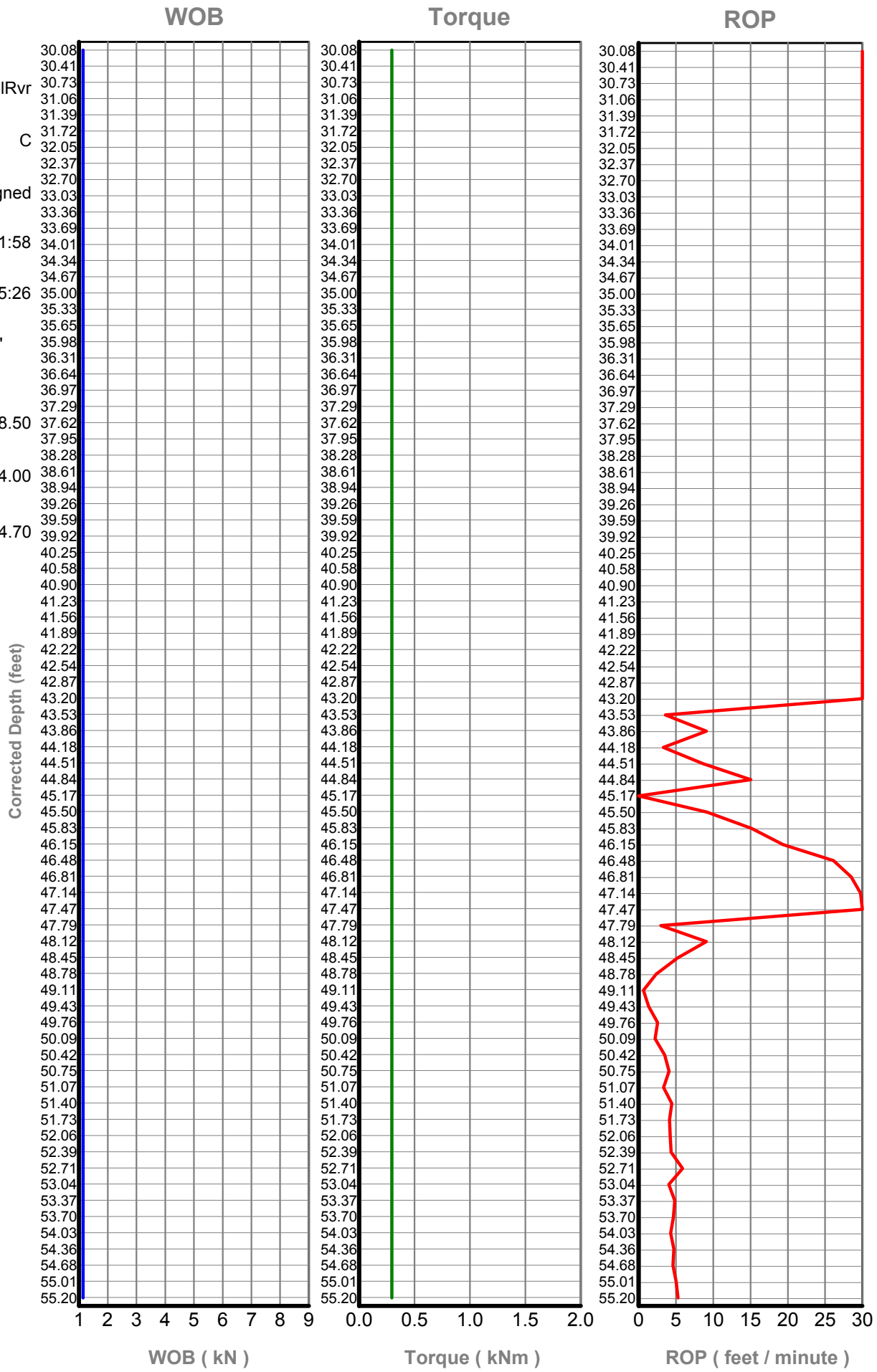
**End Date:**
5/3/2015 3:25:26

**Operator Note:**
'4.7 4.9c Auto Complete'

**Northing:**
349,388.50

**Easting:**
224,974.00

**Tide (feet):**
4.70



## Hole: P76 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:01:47 | 35.76 | 30.16 | 1,331 | 0.54 | 0.17 | 72.8 |
| 5/2/2015 22:01:47 | 36.09 | 30.49 | 1,314 | 0.54 | 0.17 | 71.8 |
| 5/2/2015 22:01:48 | 36.42 | 30.82 | 1,314 | 0.54 | 0.17 | 71.8 |
| 5/2/2015 22:01:48 | 36.75 | 31.15 | 1,314 | 0.54 | 0.17 | 71.8 |
| 5/2/2015 22:01:48 | 37.07 | 31.47 | 1,323 | 0.54 | 0.17 | 72.3 |
| 5/2/2015 22:01:49 | 37.40 | 31.80 | 1,323 | 0.54 | 0.17 | 72.3 |
| 5/2/2015 22:01:49 | 37.73 | 32.13 | 1,337 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 22:01:49 | 38.06 | 32.46 | 1,337 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 22:01:49 | 38.39 | 32.79 | 1,337 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 22:01:50 | 38.71 | 33.11 | 1,337 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 22:01:50 | 39.04 | 33.44 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 22:01:50 | 39.37 | 33.77 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 22:01:50 | 39.70 | 34.10 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 22:01:51 | 40.03 | 34.43 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 22:01:51 | 40.35 | 34.75 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/2/2015 22:01:52 | 40.68 | 35.08 | 1,349 | 0.54 | 0.17 | 73.8 |
| 5/2/2015 22:01:52 | 41.01 | 35.41 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 22:01:52 | 41.34 | 35.74 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 22:01:52 | 41.67 | 36.07 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 22:01:53 | 41.99 | 36.39 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 22:01:53 | 42.32 | 36.72 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/2/2015 22:01:53 | 42.65 | 37.05 | 1,350 | 0.54 | 0.17 | 73.8 |
| 5/2/2015 22:01:53 | 42.98 | 37.38 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 22:01:54 | 43.31 | 37.71 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 22:01:54 | 43.64 | 38.04 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 22:02:01 | 43.96 | 38.36 | 27 | 0.54 | 0.17 | 1.5 |
| 5/2/2015 22:02:01 | 44.29 | 38.69 | 27 | 0.54 | 0.17 | 1.5 |
| 5/2/2015 22:02:01 | 44.62 | 39.02 | 284 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 22:02:02 | 44.95 | 39.35 | 284 | 0.54 | 0.17 | 15.5 |
| 5/2/2015 22:02:02 | 45.28 | 39.68 | 548 | 0.54 | 0.17 | 30.0 |
| 5/2/2015 22:02:02 | 45.60 | 40.00 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 22:02:03 | 45.93 | 40.33 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 22:02:03 | 46.26 | 40.66 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 22:02:03 | 46.59 | 40.99 | 789 | 0.54 | 0.17 | 43.1 |
| 5/2/2015 22:02:03 | 46.92 | 41.32 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:02:04 | 47.24 | 41.64 | 1,057 | 0.54 | 0.17 | 57.8 |
| 5/2/2015 22:02:04 | 47.57 | 41.97 | 1,292 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 22:02:05 | 47.90 | 42.30 | 1,292 | 0.54 | 0.17 | 70.6 |
| 5/2/2015 22:02:05 | 48.23 | 42.63 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 22:02:05 | 48.56 | 42.96 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 22:02:05 | 48.88 | 43.28 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 22:02:06 | 49.21 | 43.61 | 1,293 | 0.54 | 0.17 | 70.7 |
| 5/2/2015 22:02:06 | 49.54 | 43.94 | 1,310 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 22:02:06 | 49.87 | 44.27 | 1,310 | 0.54 | 0.17 | 71.6 |
| 5/2/2015 22:02:19 | 50.20 | 44.60 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:02:19 | 50.53 | 44.93 | 53 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 22:02:20 | 50.85 | 45.25 | 276 | 0.54 | 0.17 | 15.1 |
| 5/2/2015 22:02:28 | 51.18 | 45.58 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:02:31 | 51.51 | 45.91 | 115 | 0.54 | 0.17 | 6.3 |
| 5/2/2015 22:02:42 | 51.84 | 46.24 | 12 | 0.54 | 0.17 | 0.6 |
| 5/2/2015 22:02:43 | 52.17 | 46.57 | 82 | 0.54 | 0.17 | 4.5 |
| 5/2/2015 22:02:50 | 52.49 | 46.89 | 29 | 0.54 | 0.17 | 1.6 |
| 5/2/2015 22:03:00 | 52.82 | 47.22 | 50 | 0.54 | 0.17 | 2.7 |
| 5/2/2015 22:03:01 | 53.15 | 47.55 | 127 | 0.54 | 0.17 | 6.9 |
| 5/2/2015 22:03:09 | 53.48 | 47.88 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 22:03:10 | 53.81 | 48.21 | 90 | 0.54 | 0.17 | 4.9 |
| 5/2/2015 22:03:12 | 54.13 | 48.53 | 175 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 22:03:16 | 54.46 | 48.86 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 22:03:19 | 54.79 | 49.19 | 113 | 0.54 | 0.17 | 6.2 |
| 5/2/2015 22:03:22 | 55.12 | 49.52 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 22:03:26 | 55.45 | 49.85 | 97 | 0.54 | 0.17 | 5.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:03:30 | 55.77 | 50.17 | 94 | 0.54 | 0.17 | 5.2 |
| 5/2/2015 | 22:03:33 | 56.10 | 50.50 | 132 | 0.54 | 0.17 | 7.2 |
| 5/2/2015 | 22:03:38 | 56.43 | 50.83 | 73 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 | 22:03:42 | 56.76 | 51.16 | 96 | 0.54 | 0.17 | 5.3 |
| 5/2/2015 | 22:03:46 | 57.09 | 51.49 | 73 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 | 22:03:56 | 57.41 | 51.81 | 40 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 22:03:59 | 57.74 | 52.14 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 | 22:04:02 | 58.07 | 52.47 | 104 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 22:04:05 | 58.40 | 52.80 | 119 | 0.54 | 0.17 | 6.5 |
| 5/2/2015 | 22:04:09 | 58.73 | 53.13 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 | 22:04:12 | 59.06 | 53.46 | 105 | 0.54 | 0.17 | 5.7 |
| 5/2/2015 | 22:04:16 | 59.38 | 53.78 | 78 | 0.54 | 0.17 | 4.3 |
| 5/2/2015 | 22:04:20 | 59.71 | 54.11 | 108 | 0.54 | 0.17 | 5.9 |
| 5/2/2015 | 22:04:23 | 60.04 | 54.44 | 102 | 0.54 | 0.17 | 5.6 |
| 5/2/2015 | 22:04:27 | 60.37 | 54.77 | 99 | 0.54 | 0.17 | 5.4 |
| 5/2/2015 | 22:04:28 | 60.52 | 54.92 | 108 | 0.54 | 0.17 | 5.9 |

## P76 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:59:51

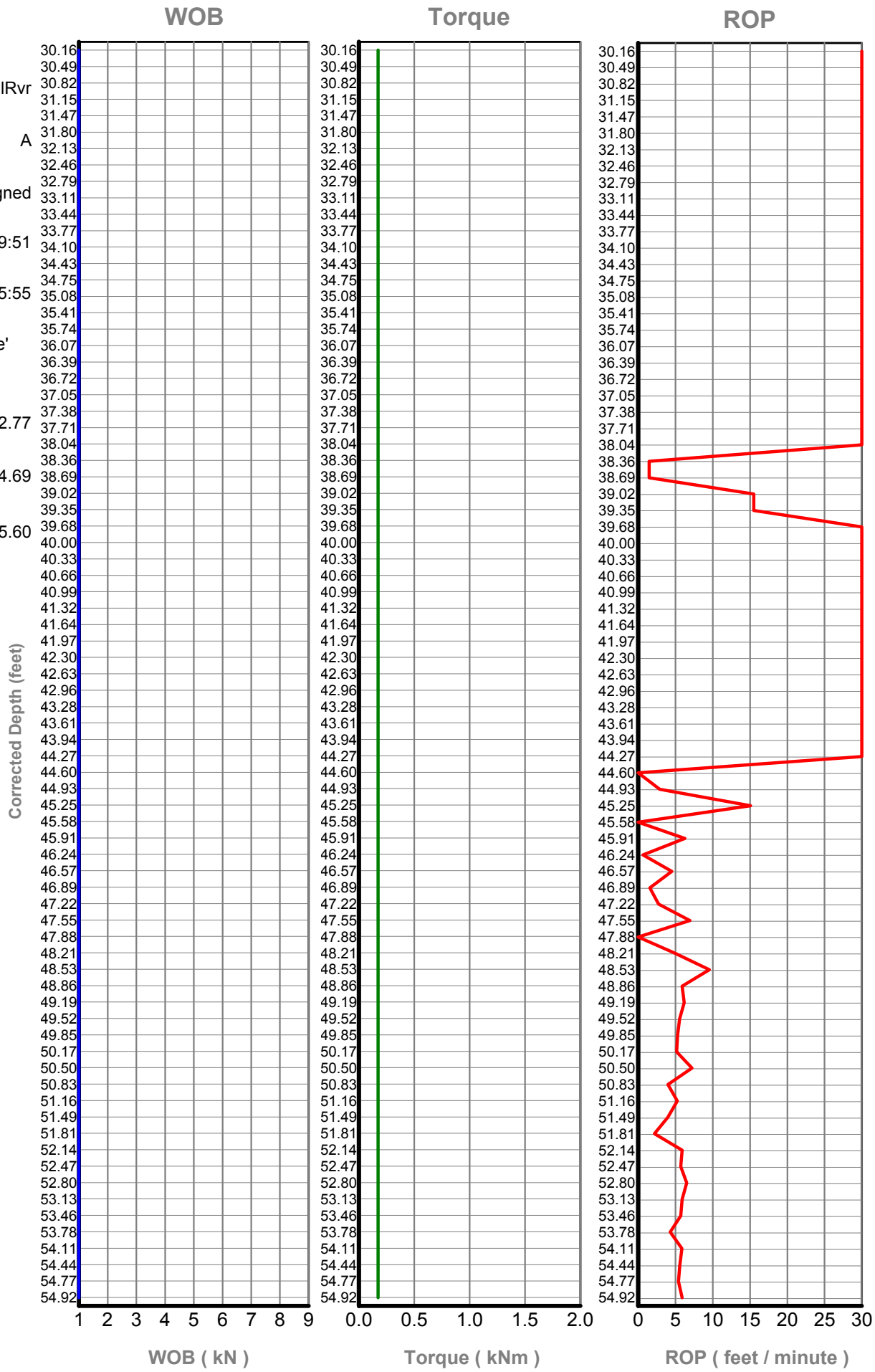
**End Date:**
5/2/2015 22:05:55

**Operator Note:**
'5.6 5.5 a Auto Complete'

**Northing:**
349,442.77

**Easting:**
225,034.69

**Tide (feet):**
5.60



## Hole: P77 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 22:02:34 | 35.76 | 30.16 | 1,133 | 0.37 | 0.40 | 62.0 |
| 5/2/2015 22:02:35 | 36.09 | 30.49 | 1,130 | 0.36 | 0.40 | 61.8 |
| 5/2/2015 22:02:35 | 36.42 | 30.82 | 1,130 | 0.36 | 0.40 | 61.8 |
| 5/2/2015 22:02:35 | 36.75 | 31.15 | 1,133 | 0.37 | 0.40 | 62.0 |
| 5/2/2015 22:02:36 | 37.07 | 31.47 | 1,133 | 0.37 | 0.40 | 62.0 |
| 5/2/2015 22:02:36 | 37.40 | 31.80 | 1,127 | 0.37 | 0.41 | 61.7 |
| 5/2/2015 22:02:36 | 37.73 | 32.13 | 1,137 | 0.37 | 0.40 | 62.2 |
| 5/2/2015 22:02:37 | 38.06 | 32.46 | 1,137 | 0.37 | 0.40 | 62.2 |
| 5/2/2015 22:02:37 | 38.39 | 32.79 | 1,130 | 0.37 | 0.41 | 61.8 |
| 5/2/2015 22:02:37 | 38.71 | 33.11 | 1,130 | 0.37 | 0.41 | 61.8 |
| 5/2/2015 22:02:37 | 39.04 | 33.44 | 1,139 | 0.37 | 0.40 | 62.3 |
| 5/2/2015 22:02:38 | 39.37 | 33.77 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:38 | 39.70 | 34.10 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:38 | 40.03 | 34.43 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:39 | 40.35 | 34.75 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:39 | 40.68 | 35.08 | 1,126 | 0.38 | 0.40 | 61.6 |
| 5/2/2015 22:02:39 | 41.01 | 35.41 | 1,133 | 0.37 | 0.41 | 62.0 |
| 5/2/2015 22:02:40 | 41.34 | 35.74 | 1,133 | 0.37 | 0.41 | 62.0 |
| 5/2/2015 22:02:40 | 41.67 | 36.07 | 1,130 | 0.37 | 0.40 | 61.8 |
| 5/2/2015 22:02:40 | 41.99 | 36.39 | 1,130 | 0.37 | 0.40 | 61.8 |
| 5/2/2015 22:02:40 | 42.32 | 36.72 | 1,133 | 0.37 | 0.40 | 62.0 |
| 5/2/2015 22:02:41 | 42.65 | 37.05 | 1,121 | 0.36 | 0.40 | 61.3 |
| 5/2/2015 22:02:41 | 42.98 | 37.38 | 1,121 | 0.36 | 0.40 | 61.3 |
| 5/2/2015 22:02:41 | 43.31 | 37.71 | 1,141 | 0.37 | 0.40 | 62.4 |
| 5/2/2015 22:02:42 | 43.64 | 38.04 | 1,141 | 0.37 | 0.40 | 62.4 |
| 5/2/2015 22:02:42 | 43.96 | 38.36 | 1,141 | 0.36 | 0.41 | 62.4 |
| 5/2/2015 22:02:43 | 44.29 | 38.69 | 1,138 | 0.37 | 0.41 | 62.2 |
| 5/2/2015 22:02:43 | 44.62 | 39.02 | 1,138 | 0.37 | 0.41 | 62.2 |
| 5/2/2015 22:02:43 | 44.95 | 39.35 | 1,131 | 0.37 | 0.40 | 61.8 |
| 5/2/2015 22:02:44 | 45.28 | 39.68 | 1,131 | 0.37 | 0.40 | 61.8 |
| 5/2/2015 22:02:44 | 45.60 | 40.00 | 1,153 | 0.37 | 0.40 | 63.1 |
| 5/2/2015 22:02:44 | 45.93 | 40.33 | 1,133 | 0.36 | 0.41 | 62.0 |
| 5/2/2015 22:02:45 | 46.26 | 40.66 | 1,133 | 0.36 | 0.41 | 62.0 |
| 5/2/2015 22:02:45 | 46.59 | 40.99 | 1,133 | 0.36 | 0.40 | 62.0 |
| 5/2/2015 22:02:45 | 46.92 | 41.32 | 1,133 | 0.39 | 0.40 | 62.0 |
| 5/2/2015 22:02:46 | 47.24 | 41.64 | 1,133 | 0.39 | 0.40 | 62.0 |
| 5/2/2015 22:02:46 | 47.57 | 41.97 | 1,136 | 0.36 | 0.40 | 62.1 |
| 5/2/2015 22:02:46 | 47.90 | 42.30 | 1,136 | 0.36 | 0.40 | 62.1 |
| 5/2/2015 22:02:46 | 48.23 | 42.63 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:47 | 48.56 | 42.96 | 1,136 | 0.37 | 0.40 | 62.1 |
| 5/2/2015 22:02:47 | 48.88 | 43.28 | 1,132 | 0.36 | 0.40 | 61.9 |
| 5/2/2015 22:02:47 | 49.21 | 43.61 | 1,135 | 0.36 | 0.40 | 62.1 |
| 5/2/2015 22:02:48 | 49.54 | 43.94 | 1,135 | 0.36 | 0.40 | 62.1 |
| 5/2/2015 22:02:53 | 49.87 | 44.27 | 9 | 4.00 | 0.49 | 0.5 |
| 5/2/2015 22:02:54 | 50.20 | 44.60 | 101 | 3.70 | 0.47 | 5.5 |
| 5/2/2015 22:03:05 | 50.53 | 44.93 | 39 | 4.07 | 0.50 | 2.1 |
| 5/2/2015 22:03:09 | 50.85 | 45.25 | 58 | 6.39 | 0.47 | 3.1 |
| 5/2/2015 22:03:10 | 51.18 | 45.58 | 184 | 3.79 | 0.48 | 10.1 |
| 5/2/2015 22:03:10 | 51.51 | 45.91 | 291 | 3.75 | 0.46 | 15.9 |
| 5/2/2015 22:03:11 | 51.84 | 46.24 | 420 | 4.76 | 0.46 | 23.0 |
| 5/2/2015 22:03:13 | 52.17 | 46.57 | 422 | 4.08 | 0.47 | 23.1 |
| 5/2/2015 22:03:24 | 52.49 | 46.89 | 68 | 4.07 | 0.45 | 3.7 |
| 5/2/2015 22:03:24 | 52.82 | 47.22 | 176 | 2.82 | 0.44 | 9.6 |
| 5/2/2015 22:03:25 | 53.15 | 47.55 | 310 | 2.80 | 0.45 | 17.0 |
| 5/2/2015 22:03:27 | 53.48 | 47.88 | 309 | 4.01 | 0.48 | 16.9 |
| 5/2/2015 22:03:31 | 53.81 | 48.21 | 86 | 4.16 | 0.49 | 4.7 |
| 5/2/2015 22:03:34 | 54.13 | 48.53 | 137 | 4.43 | 0.49 | 7.5 |
| 5/2/2015 22:03:36 | 54.46 | 48.86 | 133 | 3.84 | 0.48 | 7.3 |
| 5/2/2015 22:03:43 | 54.79 | 49.19 | 57 | 4.35 | 0.49 | 3.1 |
| 5/2/2015 22:03:46 | 55.12 | 49.52 | 113 | 4.28 | 0.49 | 6.2 |
| 5/2/2015 22:03:53 | 55.45 | 49.85 | 43 | 3.86 | 0.49 | 2.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 22:04:02 | 55.77 | 50.17 | 43 | 3.71 | 0.49 | 2.4 |
| 5/2/2015 | 22:04:08 | 56.10 | 50.50 | 58 | 4.02 | 0.49 | 3.2 |
| 5/2/2015 | 22:04:15 | 56.40 | 50.80 | 46 | 3.66 | 0.49 | 2.5 |

## P77 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 22:01:03

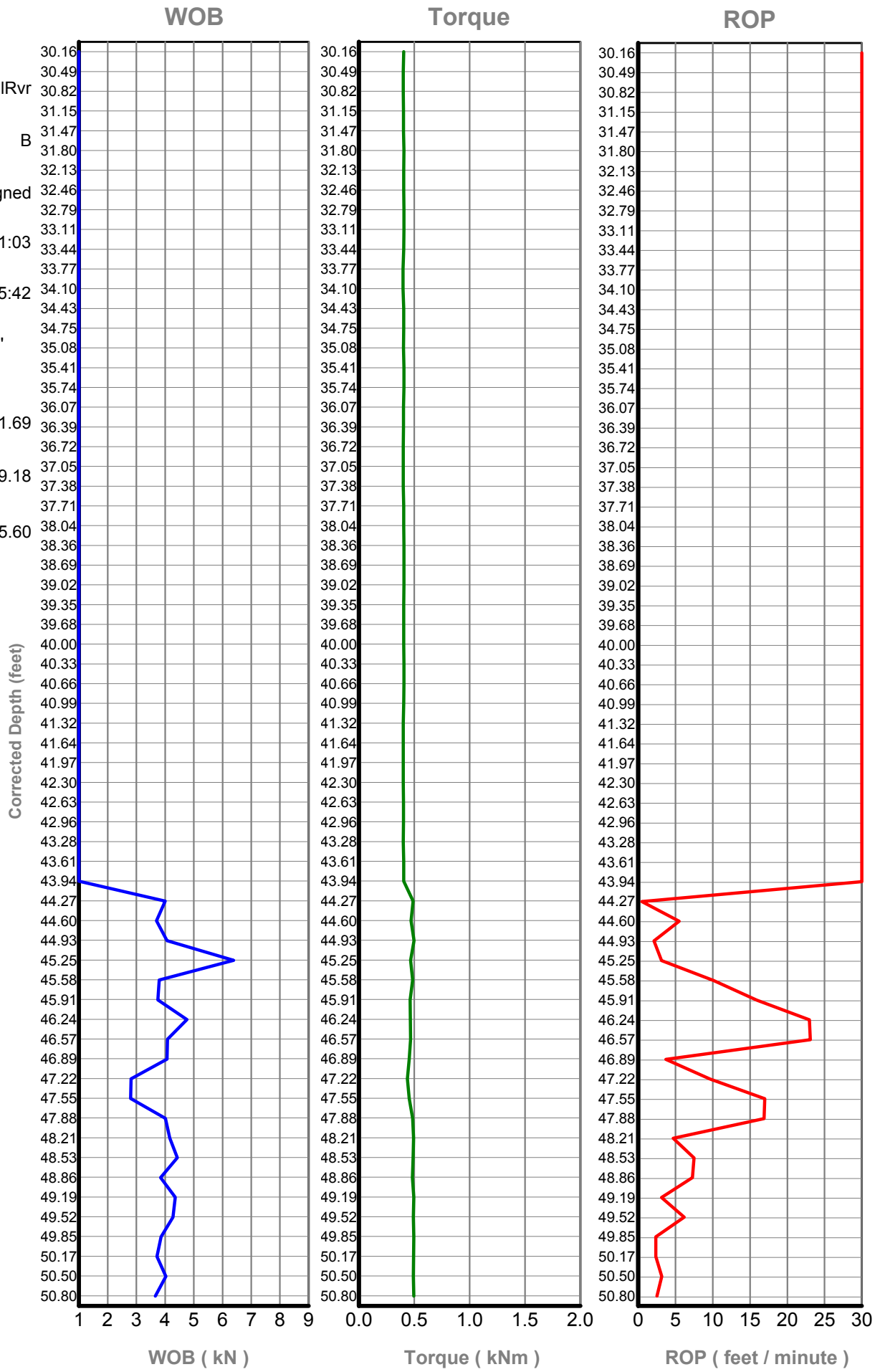
**End Date:**
5/2/2015 22:05:42

**Operator Note:**
'5.6 5.5b Auto Complete'

**Northing:**
349,481.69

**Easting:**
225,099.18

**Tide (feet):**
5.60



## Hole: P78 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:57:54 | 35.76 | 30.26 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:55 | 36.09 | 30.59 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:57:55 | 36.42 | 30.92 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:57:56 | 36.75 | 31.25 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:57:56 | 37.07 | 31.57 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:57:56 | 37.40 | 31.90 | 998 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:57:57 | 37.73 | 32.23 | 998 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:57:57 | 38.06 | 32.56 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:57:57 | 38.39 | 32.89 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:58 | 38.71 | 33.21 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:58 | 39.04 | 33.54 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:58 | 39.37 | 33.87 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:59 | 39.70 | 34.20 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:57:59 | 40.03 | 34.53 | 992 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:57:59 | 40.35 | 34.85 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 21:58:00 | 40.68 | 35.18 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:00 | 41.01 | 35.51 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:00 | 41.34 | 35.84 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:01 | 41.67 | 36.17 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:01 | 41.99 | 36.49 | 1,001 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:01 | 42.32 | 36.82 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/2/2015 21:58:02 | 42.65 | 37.15 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 21:58:02 | 42.98 | 37.48 | 1,003 | 1.14 | 0.29 | 54.9 |
| 5/2/2015 21:58:03 | 43.31 | 37.81 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:03 | 43.64 | 38.14 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:04 | 43.96 | 38.46 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:04 | 44.29 | 38.79 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:04 | 44.62 | 39.12 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:58:05 | 44.95 | 39.45 | 991 | 1.14 | 0.29 | 54.2 |
| 5/2/2015 21:58:05 | 45.28 | 39.78 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:05 | 45.60 | 40.10 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 21:58:06 | 45.93 | 40.43 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:06 | 46.26 | 40.76 | 994 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:06 | 46.59 | 41.09 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:07 | 46.92 | 41.42 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 21:58:07 | 47.24 | 41.74 | 998 | 1.14 | 0.29 | 54.6 |
| 5/2/2015 21:58:07 | 47.57 | 42.07 | 995 | 1.14 | 0.29 | 54.4 |
| 5/2/2015 21:58:08 | 47.90 | 42.40 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:08 | 48.23 | 42.73 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:08 | 48.56 | 43.06 | 1,000 | 1.14 | 0.29 | 54.7 |
| 5/2/2015 21:58:09 | 48.88 | 43.38 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:09 | 49.21 | 43.71 | 997 | 1.14 | 0.29 | 54.5 |
| 5/2/2015 21:58:27 | 49.54 | 44.04 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:58:31 | 49.87 | 44.37 | 6 | 1.14 | 0.29 | 0.3 |
| 5/2/2015 21:58:32 | 50.20 | 44.70 | 193 | 1.14 | 0.29 | 10.6 |
| 5/2/2015 21:58:32 | 50.53 | 45.03 | 281 | 1.14 | 0.29 | 15.4 |
| 5/2/2015 21:58:45 | 50.85 | 45.35 | 76 | 1.14 | 0.29 | 4.1 |
| 5/2/2015 21:58:46 | 51.18 | 45.68 | 141 | 1.14 | 0.29 | 7.7 |
| 5/2/2015 21:58:47 | 51.51 | 46.01 | 258 | 1.14 | 0.29 | 14.1 |
| 5/2/2015 21:58:53 | 51.84 | 46.34 | 60 | 1.14 | 0.29 | 3.3 |
| 5/2/2015 21:58:54 | 52.17 | 46.67 | 160 | 1.14 | 0.29 | 8.8 |
| 5/2/2015 21:58:54 | 52.49 | 46.99 | 309 | 1.14 | 0.29 | 16.9 |
| 5/2/2015 21:58:55 | 52.82 | 47.32 | 438 | 1.14 | 0.29 | 24.0 |
| 5/2/2015 21:59:00 | 53.15 | 47.65 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:59:01 | 53.48 | 47.98 | 90 | 1.14 | 0.29 | 4.9 |
| 5/2/2015 21:59:04 | 53.81 | 48.31 | 149 | 1.14 | 0.29 | 8.1 |
| 5/2/2015 21:59:05 | 54.13 | 48.63 | 204 | 1.14 | 0.29 | 11.2 |
| 5/2/2015 21:59:05 | 54.46 | 48.96 | 239 | 1.14 | 0.29 | 13.1 |
| 5/2/2015 21:59:14 | 54.79 | 49.29 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:59:15 | 55.12 | 49.62 | 94 | 1.14 | 0.29 | 5.1 |
| 5/2/2015 21:59:16 | 55.45 | 49.95 | 253 | 1.14 | 0.29 | 13.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 21:59:17 | 55.77 | 50.27 | 410 | 1.14 | 0.29 | 22.4 |
| 5/2/2015 | 21:59:18 | 56.10 | 50.60 | 369 | 1.14 | 0.29 | 20.2 |
| 5/2/2015 | 21:59:20 | 56.43 | 50.93 | 128 | 1.14 | 0.29 | 7.0 |
| 5/2/2015 | 21:59:22 | 56.76 | 51.26 | 167 | 1.14 | 0.29 | 9.1 |
| 5/2/2015 | 21:59:26 | 57.09 | 51.59 | 127 | 1.14 | 0.29 | 7.0 |
| 5/2/2015 | 21:59:32 | 57.41 | 51.91 | 50 | 1.14 | 0.29 | 2.7 |
| 5/2/2015 | 21:59:39 | 57.74 | 52.24 | 59 | 1.14 | 0.29 | 3.2 |
| 5/2/2015 | 21:59:44 | 58.07 | 52.57 | 66 | 1.14 | 0.29 | 3.6 |
| 5/2/2015 | 21:59:47 | 58.40 | 52.90 | 102 | 1.14 | 0.29 | 5.6 |
| 5/2/2015 | 21:59:52 | 58.73 | 53.23 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 21:59:56 | 59.06 | 53.56 | 115 | 1.14 | 0.29 | 6.3 |
| 5/2/2015 | 22:00:08 | 59.38 | 53.88 | 63 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 | 22:00:14 | 59.71 | 54.21 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 22:00:22 | 60.04 | 54.54 | 21 | 1.14 | 0.29 | 1.1 |
| 5/2/2015 | 22:00:31 | 60.37 | 54.87 | 81 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 22:00:32 | 60.47 | 54.97 | 84 | 1.14 | 0.29 | 4.6 |

## P78 - Summary

**Pattern Number:**
AreaP_Lane4-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:56:18

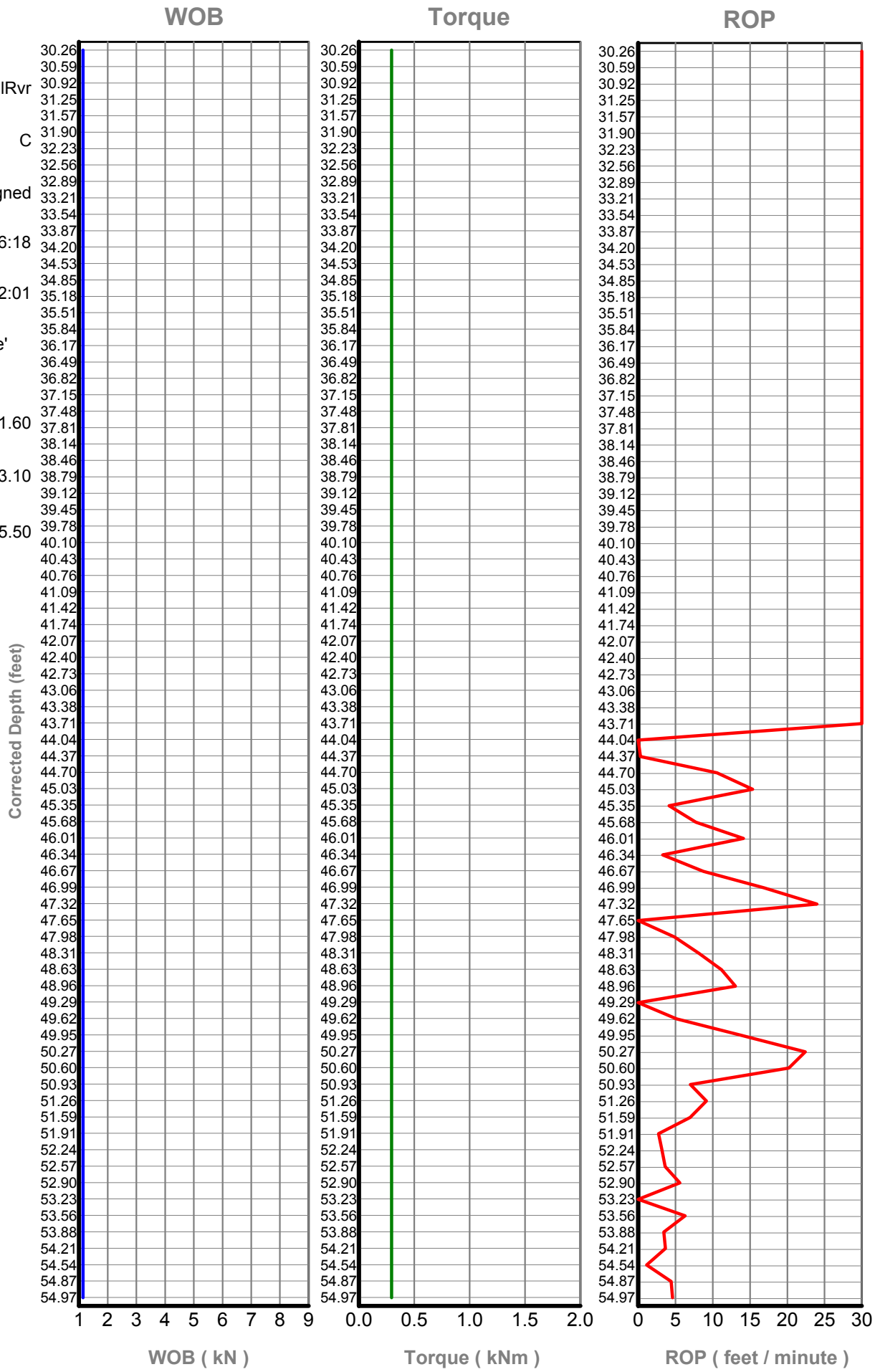
**End Date:**
5/2/2015 22:02:01

**Operator Note:**
'5.5 5.5 c Auto Complete'

**Northing:**
349,521.60

**Easting:**
225,163.10

**Tide (feet):**
5.50



## Hole: P79 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:24:03 | 34.78 | 30.18 | 1,326 | 0.54 | 0.17 | 72.5 |
| 5/2/2015 21:24:03 | 35.11 | 30.51 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 21:24:04 | 35.43 | 30.83 | 1,340 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 21:24:04 | 35.76 | 31.16 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:24:04 | 36.09 | 31.49 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:24:05 | 36.42 | 31.82 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:24:05 | 36.75 | 32.15 | 1,320 | 0.54 | 0.17 | 72.2 |
| 5/2/2015 21:24:05 | 37.07 | 32.47 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 21:24:06 | 37.40 | 32.80 | 1,324 | 0.54 | 0.17 | 72.4 |
| 5/2/2015 21:24:06 | 37.73 | 33.13 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 21:24:06 | 38.06 | 33.46 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 21:24:06 | 38.39 | 33.79 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 21:24:07 | 38.71 | 34.11 | 1,333 | 0.54 | 0.17 | 72.9 |
| 5/2/2015 21:24:07 | 39.04 | 34.44 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/2/2015 21:24:07 | 39.37 | 34.77 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/2/2015 21:24:07 | 39.70 | 35.10 | 1,339 | 0.54 | 0.17 | 73.2 |
| 5/2/2015 21:24:08 | 40.03 | 35.43 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 21:24:08 | 40.35 | 35.75 | 1,342 | 0.54 | 0.17 | 73.4 |
| 5/2/2015 21:24:08 | 40.68 | 36.08 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/2/2015 21:24:09 | 41.01 | 36.41 | 1,362 | 0.54 | 0.17 | 74.5 |
| 5/2/2015 21:24:09 | 41.34 | 36.74 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 21:24:09 | 41.67 | 37.07 | 1,341 | 0.54 | 0.17 | 73.3 |
| 5/2/2015 21:24:09 | 41.99 | 37.39 | 1,321 | 0.54 | 0.17 | 72.3 |
| 5/2/2015 21:24:10 | 42.32 | 37.72 | 1,321 | 0.54 | 0.17 | 72.3 |
| 5/2/2015 21:24:17 | 42.65 | 38.05 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 21:24:19 | 42.98 | 38.38 | 3 | 0.54 | 0.17 | 0.2 |
| 5/2/2015 21:24:17 | 43.31 | 38.71 | 160 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 21:24:18 | 43.64 | 39.04 | 160 | 0.54 | 0.17 | 8.8 |
| 5/2/2015 21:24:18 | 43.96 | 39.36 | 437 | 0.54 | 0.17 | 23.9 |
| 5/2/2015 21:24:18 | 44.29 | 39.69 | 437 | 0.54 | 0.17 | 23.9 |
| 5/2/2015 21:24:18 | 44.62 | 40.02 | 708 | 0.54 | 0.17 | 38.7 |
| 5/2/2015 21:24:19 | 44.95 | 40.35 | 708 | 0.54 | 0.17 | 38.7 |
| 5/2/2015 21:24:19 | 45.28 | 40.68 | 987 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 21:24:19 | 45.60 | 41.00 | 987 | 0.54 | 0.17 | 54.0 |
| 5/2/2015 21:24:19 | 45.93 | 41.33 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 21:24:20 | 46.26 | 41.66 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 21:24:20 | 46.59 | 41.99 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 21:24:20 | 46.92 | 42.32 | 1,244 | 0.54 | 0.17 | 68.0 |
| 5/2/2015 21:24:20 | 47.24 | 42.64 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:24:21 | 47.57 | 42.97 | 1,370 | 0.54 | 0.17 | 74.9 |
| 5/2/2015 21:24:21 | 47.90 | 43.30 | 1,371 | 0.54 | 0.17 | 75.0 |
| 5/2/2015 21:24:22 | 48.23 | 43.63 | 1,336 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 21:24:22 | 48.56 | 43.96 | 1,336 | 0.54 | 0.17 | 73.1 |
| 5/2/2015 21:24:22 | 48.88 | 44.28 | 1,316 | 0.54 | 0.17 | 72.0 |
| 5/2/2015 21:24:23 | 49.21 | 44.61 | 1,316 | 0.54 | 0.17 | 72.0 |
| 5/2/2015 21:24:35 | 49.54 | 44.94 | 53 | 0.54 | 0.17 | 2.9 |
| 5/2/2015 21:24:36 | 49.87 | 45.27 | 147 | 0.54 | 0.17 | 8.1 |
| 5/2/2015 21:24:41 | 50.20 | 45.60 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 21:24:45 | 50.53 | 45.93 | 69 | 0.54 | 0.17 | 3.8 |
| 5/2/2015 21:25:03 | 50.85 | 46.25 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 21:25:06 | 51.18 | 46.58 | 139 | 0.54 | 0.17 | 7.6 |
| 5/2/2015 21:25:10 | 51.51 | 46.91 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 21:25:11 | 51.84 | 47.24 | 99 | 0.54 | 0.17 | 5.4 |
| 5/2/2015 21:25:15 | 52.17 | 47.57 | 57 | 0.54 | 0.17 | 3.1 |
| 5/2/2015 21:25:19 | 52.49 | 47.89 | 64 | 0.54 | 0.17 | 3.5 |
| 5/2/2015 21:25:21 | 52.82 | 48.22 | 106 | 0.54 | 0.17 | 5.8 |
| 5/2/2015 21:25:23 | 53.15 | 48.55 | 183 | 0.54 | 0.17 | 10.0 |
| 5/2/2015 21:25:24 | 53.48 | 48.88 | 232 | 0.54 | 0.17 | 12.7 |
| 5/2/2015 21:25:25 | 53.81 | 49.21 | 256 | 0.54 | 0.17 | 14.0 |
| 5/2/2015 21:25:26 | 54.13 | 49.53 | 289 | 0.54 | 0.17 | 15.8 |
| 5/2/2015 21:25:27 | 54.46 | 49.86 | 367 | 0.54 | 0.17 | 20.1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:25:46 | 54.79 | 50.19 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 21:25:47 | 55.12 | 50.52 | 252 | 0.54 | 0.17 | 13.8 |
| 5/2/2015 21:25:48 | 55.45 | 50.85 | 252 | 0.54 | 0.17 | 13.8 |
| 5/2/2015 21:25:48 | 55.77 | 51.17 | 506 | 0.54 | 0.17 | 27.7 |
| 5/2/2015 21:25:52 | 56.10 | 51.50 | 72 | 0.54 | 0.17 | 3.9 |
| 5/2/2015 21:25:54 | 56.43 | 51.83 | 204 | 0.54 | 0.17 | 11.2 |
| 5/2/2015 21:25:55 | 56.76 | 52.16 | 277 | 0.54 | 0.17 | 15.2 |
| 5/2/2015 21:26:12 | 57.09 | 52.49 | 49 | 0.54 | 0.17 | 2.7 |
| 5/2/2015 21:26:23 | 57.41 | 52.81 | 26 | 0.54 | 0.17 | 1.4 |
| 5/2/2015 21:26:34 | 57.74 | 53.14 | 29 | 0.54 | 0.17 | 1.6 |
| 5/2/2015 21:26:46 | 58.07 | 53.47 | 32 | 0.54 | 0.17 | 1.7 |
| 5/2/2015 21:26:52 | 58.24 | 53.64 | 32 | 0.54 | 0.17 | 1.7 |

## P79 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:16:39

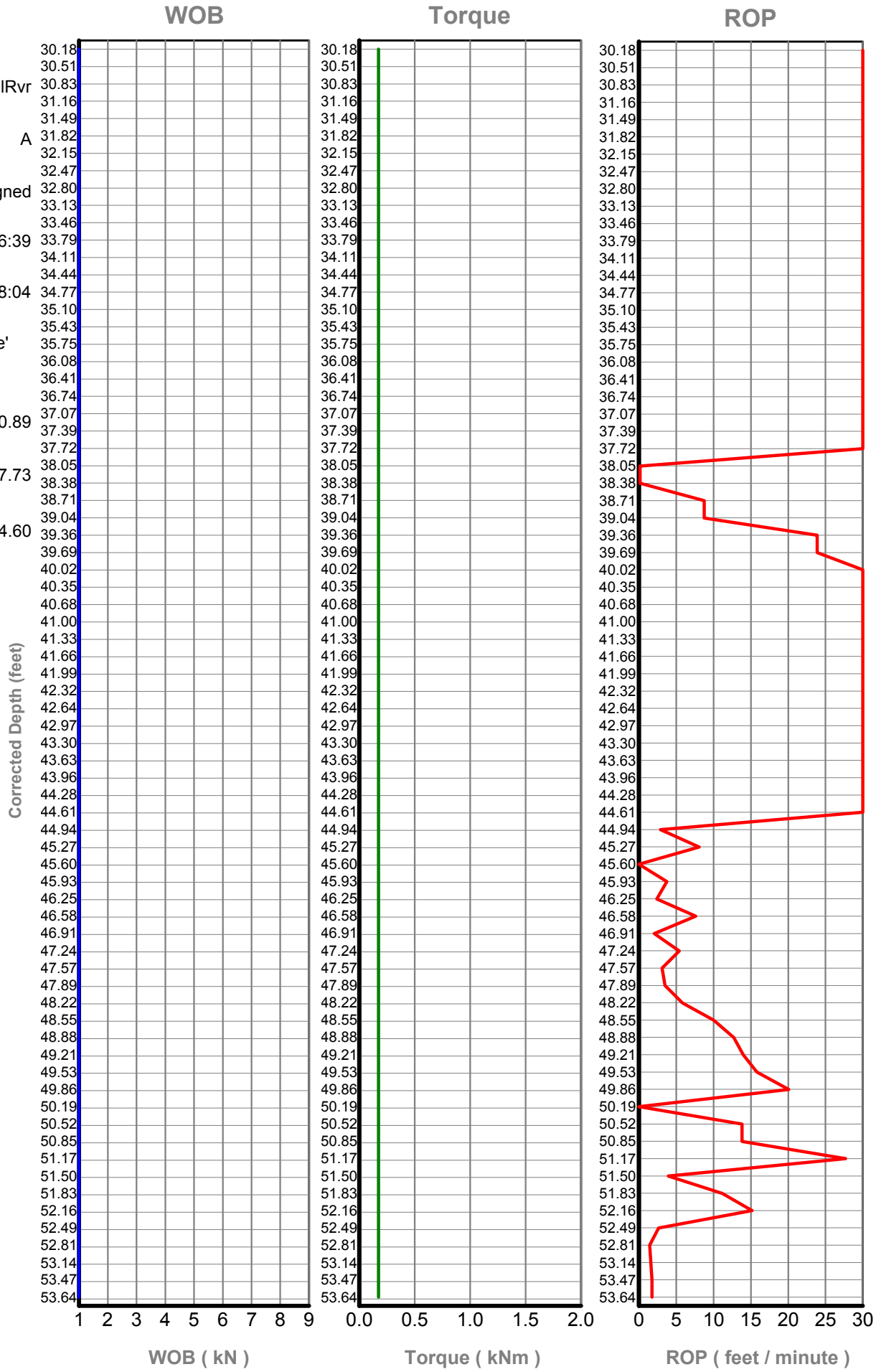
**End Date:**
5/2/2015 21:28:04

**Operator Note:**
'4.6 4.4 a Auto Complete'

**Northing:**
349,560.89

**Easting:**
225,227.73

**Tide (feet):**
4.60



## Hole: P8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:38:02 | 33.14 | 30.04 | 1,208 | 0.32 | 0.38 | 66.1 |
| 5/3/2015 4:38:03 | 33.46 | 30.36 | 1,208 | 0.32 | 0.38 | 66.1 |
| 5/3/2015 4:38:03 | 33.79 | 30.69 | 1,208 | 0.33 | 0.39 | 66.1 |
| 5/3/2015 4:38:03 | 34.12 | 31.02 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 4:38:04 | 34.45 | 31.35 | 1,206 | 0.31 | 0.38 | 65.9 |
| 5/3/2015 4:38:04 | 34.78 | 31.68 | 1,193 | 0.32 | 0.39 | 65.2 |
| 5/3/2015 4:38:04 | 35.11 | 32.01 | 1,193 | 0.32 | 0.39 | 65.2 |
| 5/3/2015 4:38:04 | 35.43 | 32.33 | 1,176 | 0.32 | 0.39 | 64.3 |
| 5/3/2015 4:38:05 | 35.76 | 32.66 | 1,176 | 0.32 | 0.39 | 64.3 |
| 5/3/2015 4:38:05 | 36.09 | 32.99 | 1,176 | 0.31 | 0.39 | 64.3 |
| 5/3/2015 4:38:05 | 36.42 | 33.32 | 1,196 | 0.31 | 0.39 | 65.4 |
| 5/3/2015 4:38:06 | 36.75 | 33.65 | 1,196 | 0.31 | 0.39 | 65.4 |
| 5/3/2015 4:38:06 | 37.07 | 33.97 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/3/2015 4:38:06 | 37.40 | 34.30 | 1,179 | 0.31 | 0.38 | 64.5 |
| 5/3/2015 4:38:06 | 37.73 | 34.63 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/3/2015 4:38:07 | 38.06 | 34.96 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/3/2015 4:38:07 | 38.39 | 35.29 | 1,203 | 0.31 | 0.38 | 65.8 |
| 5/3/2015 4:38:07 | 38.71 | 35.61 | 1,213 | 0.32 | 0.37 | 66.3 |
| 5/3/2015 4:38:08 | 39.04 | 35.94 | 1,213 | 0.32 | 0.37 | 66.3 |
| 5/3/2015 4:38:08 | 39.37 | 36.27 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 4:38:08 | 39.70 | 36.60 | 1,203 | 0.31 | 0.39 | 65.8 |
| 5/3/2015 4:38:08 | 40.03 | 36.93 | 1,220 | 0.28 | 0.45 | 66.7 |
| 5/3/2015 4:38:15 | 40.35 | 37.25 | 0 | 4.31 | 0.46 | 0.0 |
| 5/3/2015 4:38:17 | 40.68 | 37.58 | 158 | 3.60 | 0.48 | 8.7 |
| 5/3/2015 4:38:19 | 41.01 | 37.91 | 148 | 4.15 | 0.47 | 8.1 |
| 5/3/2015 4:38:21 | 41.34 | 38.24 | 195 | 3.43 | 0.47 | 10.6 |
| 5/3/2015 4:38:22 | 41.67 | 38.57 | 247 | 3.70 | 0.45 | 13.5 |
| 5/3/2015 4:38:23 | 41.99 | 38.89 | 273 | 5.12 | 0.46 | 14.9 |
| 5/3/2015 4:38:25 | 42.32 | 39.22 | 264 | 4.11 | 0.46 | 14.4 |
| 5/3/2015 4:38:25 | 42.65 | 39.55 | 304 | 3.36 | 0.45 | 16.6 |
| 5/3/2015 4:38:38 | 42.98 | 39.88 | 95 | 3.72 | 0.46 | 5.2 |
| 5/3/2015 4:39:07 | 43.31 | 40.21 | 29 | 3.98 | 0.45 | 1.6 |
| 5/3/2015 4:39:08 | 43.64 | 40.54 | 138 | 4.46 | 0.46 | 7.6 |
| 5/3/2015 4:39:09 | 43.96 | 40.86 | 257 | 4.83 | 0.47 | 14.1 |
| 5/3/2015 4:39:10 | 44.29 | 41.19 | 243 | 4.07 | 0.45 | 13.3 |
| 5/3/2015 4:39:11 | 44.62 | 41.52 | 293 | 3.79 | 0.47 | 16.0 |
| 5/3/2015 4:39:12 | 44.95 | 41.85 | 344 | 5.17 | 0.47 | 18.8 |
| 5/3/2015 4:39:13 | 45.28 | 42.18 | 335 | 4.55 | 0.47 | 18.3 |
| 5/3/2015 4:39:15 | 45.60 | 42.50 | 280 | 4.43 | 0.48 | 15.3 |
| 5/3/2015 4:39:16 | 45.93 | 42.83 | 301 | 4.21 | 0.47 | 16.4 |
| 5/3/2015 4:39:17 | 46.26 | 43.16 | 293 | 4.84 | 0.47 | 16.0 |
| 5/3/2015 4:39:19 | 46.59 | 43.49 | 286 | 3.48 | 0.48 | 15.7 |
| 5/3/2015 4:39:20 | 46.92 | 43.82 | 252 | 4.21 | 0.47 | 13.8 |
| 5/3/2015 4:39:22 | 47.24 | 44.14 | 229 | 5.90 | 0.46 | 12.5 |
| 5/3/2015 4:39:23 | 47.57 | 44.47 | 237 | 5.54 | 0.47 | 12.9 |
| 5/3/2015 4:39:25 | 47.90 | 44.80 | 231 | 4.78 | 0.47 | 12.6 |
| 5/3/2015 4:39:26 | 48.23 | 45.13 | 257 | 4.73 | 0.47 | 14.1 |
| 5/3/2015 4:39:27 | 48.56 | 45.46 | 297 | 2.76 | 0.45 | 16.3 |
| 5/3/2015 4:39:28 | 48.88 | 45.78 | 345 | 2.69 | 0.46 | 18.8 |
| 5/3/2015 4:40:56 | 49.21 | 46.11 | 35 | 2.31 | 0.43 | 1.9 |
| 5/3/2015 4:40:57 | 49.54 | 46.44 | 35 | 2.31 | 0.43 | 1.9 |
| 5/3/2015 4:40:57 | 49.87 | 46.77 | 257 | 3.22 | 0.47 | 14.1 |
| 5/3/2015 4:41:05 | 50.20 | 47.10 | 106 | 3.60 | 0.48 | 5.8 |
| 5/3/2015 4:42:28 | 50.53 | 47.43 | 87 | 3.48 | 0.48 | 4.7 |
| 5/3/2015 4:42:41 | 50.85 | 47.75 | 0 | 2.58 | 0.45 | 0.0 |
| 5/3/2015 4:42:45 | 51.18 | 48.08 | 11 | 3.34 | 0.48 | 0.6 |
| 5/3/2015 4:43:28 | 51.51 | 48.41 | 0 | 3.60 | 0.48 | 0.0 |
| 5/3/2015 4:43:41 | 51.84 | 48.74 | 20 | 3.73 | 0.49 | 1.1 |
| 5/3/2015 4:45:37 | 52.17 | 49.07 | 40 | 3.82 | 0.49 | 2.2 |
| 5/3/2015 4:45:48 | 52.49 | 49.39 | 0 | 3.15 | 0.47 | 0.0 |
| 5/3/2015 4:46:24 | 52.82 | 49.72 | 12 | 3.56 | 0.49 | 0.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 4:46:34 | 53.15 | 50.05 | 11 | 3.83 | 0.49 | 0.6 |
| 5/3/2015 | 4:46:54 | 53.48 | 50.38 | 12 | 3.81 | 0.49 | 0.7 |
| 5/3/2015 | 4:47:12 | 53.81 | 50.71 | 61 | 3.24 | 0.48 | 3.3 |
| 5/3/2015 | 4:47:27 | 54.13 | 51.03 | 0 | 3.91 | 0.49 | 0.0 |
| 5/3/2015 | 4:47:56 | 54.46 | 51.36 | 65 | 3.52 | 0.49 | 3.5 |
| 5/3/2015 | 4:48:02 | 54.79 | 51.69 | 50 | 3.68 | 0.49 | 2.7 |
| 5/3/2015 | 4:48:10 | 55.12 | 52.02 | 52 | 3.71 | 0.49 | 2.8 |
| 5/3/2015 | 4:48:14 | 55.45 | 52.35 | 87 | 3.80 | 0.49 | 4.7 |
| 5/3/2015 | 4:48:19 | 55.77 | 52.67 | 62 | 3.91 | 0.49 | 3.4 |
| 5/3/2015 | 4:48:23 | 56.10 | 53.00 | 93 | 3.37 | 0.49 | 5.1 |
| 5/3/2015 | 4:48:28 | 56.43 | 53.33 | 63 | 3.24 | 0.49 | 3.5 |
| 5/3/2015 | 4:48:32 | 56.76 | 53.66 | 86 | 2.99 | 0.49 | 4.7 |
| 5/3/2015 | 4:48:36 | 57.09 | 53.99 | 77 | 2.86 | 0.49 | 4.2 |
| 5/3/2015 | 4:48:41 | 57.41 | 54.31 | 91 | 3.14 | 0.49 | 4.9 |
| 5/3/2015 | 4:48:44 | 57.74 | 54.64 | 103 | 3.69 | 0.49 | 5.7 |
| 5/3/2015 | 4:48:48 | 58.07 | 54.97 | 102 | 3.34 | 0.49 | 5.6 |
| 5/3/2015 | 4:48:51 | 58.26 | 55.16 | 66 | 3.27 | 0.50 | 3.6 |

## P8 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 4:35:42

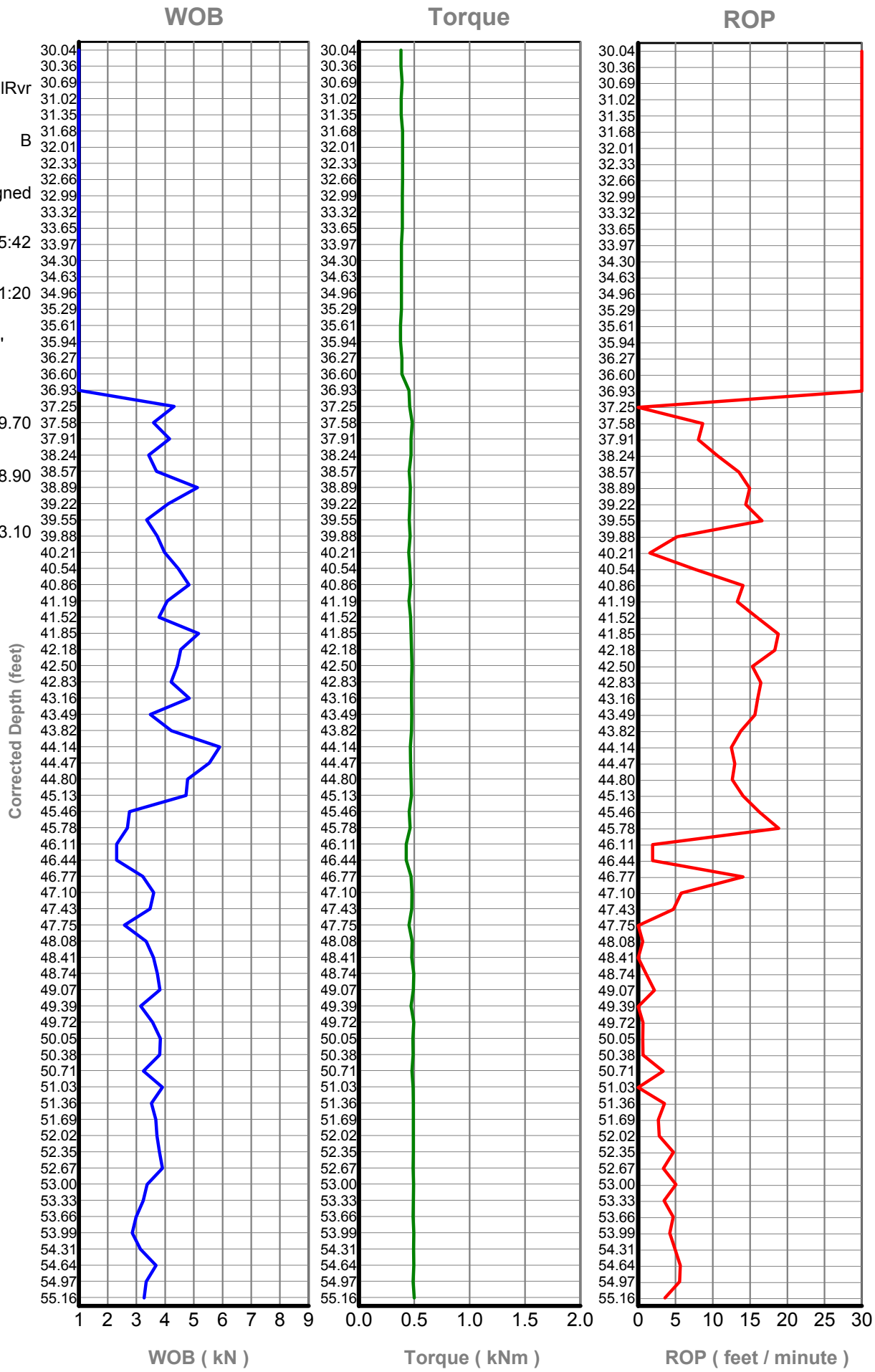
**End Date:**
5/3/2015 4:51:20

**Operator Note:**
'3.1 3.3b Auto Complete'

**Northing:**
349,539.70

**Easting:**
224,788.90

**Tide (feet):**
3.10



## Hole: P80 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:25:10 | 35.11 | 30.21 | 1,244 | 0.33 | 0.39 | 68.0 |
| 5/2/2015 21:25:10 | 35.43 | 30.53 | 1,244 | 0.33 | 0.39 | 68.0 |
| 5/2/2015 21:25:10 | 35.76 | 30.86 | 1,257 | 0.24 | 0.39 | 68.8 |
| 5/2/2015 21:25:11 | 36.09 | 31.19 | 1,257 | 0.24 | 0.39 | 68.8 |
| 5/2/2015 21:25:11 | 36.42 | 31.52 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 21:25:11 | 36.75 | 31.85 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 21:25:11 | 37.07 | 32.17 | 1,249 | 0.33 | 0.41 | 68.3 |
| 5/2/2015 21:25:12 | 37.40 | 32.50 | 1,249 | 0.33 | 0.41 | 68.3 |
| 5/2/2015 21:25:12 | 37.73 | 32.83 | 1,246 | 0.33 | 0.39 | 68.1 |
| 5/2/2015 21:25:13 | 38.06 | 33.16 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:13 | 38.39 | 33.49 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:13 | 38.71 | 33.81 | 1,241 | 0.33 | 0.39 | 67.9 |
| 5/2/2015 21:25:14 | 39.04 | 34.14 | 1,241 | 0.33 | 0.39 | 67.9 |
| 5/2/2015 21:25:14 | 39.37 | 34.47 | 1,244 | 0.33 | 0.39 | 68.0 |
| 5/2/2015 21:25:14 | 39.70 | 34.80 | 1,244 | 0.33 | 0.39 | 68.0 |
| 5/2/2015 21:25:14 | 40.03 | 35.13 | 1,249 | 0.33 | 0.39 | 68.3 |
| 5/2/2015 21:25:15 | 40.35 | 35.45 | 1,249 | 0.33 | 0.39 | 68.3 |
| 5/2/2015 21:25:15 | 40.68 | 35.78 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:15 | 41.01 | 36.11 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:15 | 41.34 | 36.44 | 1,243 | 0.32 | 0.40 | 68.0 |
| 5/2/2015 21:25:16 | 41.67 | 36.77 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:16 | 41.99 | 37.09 | 1,249 | 0.33 | 0.40 | 68.3 |
| 5/2/2015 21:25:16 | 42.32 | 37.42 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 21:25:17 | 42.65 | 37.75 | 1,246 | 0.33 | 0.40 | 68.1 |
| 5/2/2015 21:25:17 | 42.98 | 38.08 | 1,239 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:25:17 | 43.31 | 38.41 | 1,239 | 0.33 | 0.39 | 67.7 |
| 5/2/2015 21:25:17 | 43.64 | 38.74 | 1,238 | 0.33 | 0.38 | 67.7 |
| 5/2/2015 21:25:18 | 43.96 | 39.06 | 1,238 | 0.33 | 0.38 | 67.7 |
| 5/2/2015 21:25:18 | 44.29 | 39.39 | 1,252 | 0.33 | 0.39 | 68.4 |
| 5/2/2015 21:25:18 | 44.62 | 39.72 | 1,246 | 0.33 | 0.39 | 68.1 |
| 5/2/2015 21:25:19 | 44.95 | 40.05 | 1,246 | 0.33 | 0.39 | 68.1 |
| 5/2/2015 21:25:19 | 45.28 | 40.38 | 1,254 | 0.36 | 0.36 | 68.5 |
| 5/2/2015 21:25:19 | 45.60 | 40.70 | 1,254 | 0.36 | 0.36 | 68.5 |
| 5/2/2015 21:25:19 | 45.93 | 41.03 | 1,250 | 0.33 | 0.40 | 68.4 |
| 5/2/2015 21:25:20 | 46.26 | 41.36 | 1,250 | 0.33 | 0.40 | 68.4 |
| 5/2/2015 21:25:20 | 46.59 | 41.69 | 1,217 | 0.33 | 0.40 | 66.6 |
| 5/2/2015 21:25:20 | 46.92 | 42.02 | 1,217 | 0.33 | 0.40 | 66.6 |
| 5/2/2015 21:25:20 | 47.24 | 42.34 | 1,217 | 0.33 | 0.40 | 66.6 |
| 5/2/2015 21:25:21 | 47.57 | 42.67 | 1,231 | 0.33 | 0.39 | 67.3 |
| 5/2/2015 21:25:21 | 47.90 | 43.00 | 1,231 | 0.33 | 0.39 | 67.3 |
| 5/2/2015 21:25:21 | 48.23 | 43.33 | 1,224 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:25:22 | 48.56 | 43.66 | 1,224 | 0.33 | 0.40 | 66.9 |
| 5/2/2015 21:25:22 | 48.88 | 43.98 | 1,226 | 0.33 | 0.40 | 67.1 |
| 5/2/2015 21:25:23 | 49.21 | 44.31 | 1,226 | 0.33 | 0.40 | 67.1 |
| 5/2/2015 21:25:22 | 49.54 | 44.64 | 1,224 | 0.29 | 0.47 | 66.9 |
| 5/2/2015 21:25:29 | 49.87 | 44.97 | 116 | 4.66 | 0.48 | 6.3 |
| 5/2/2015 21:25:31 | 50.20 | 45.30 | 183 | 3.72 | 0.47 | 10.0 |
| 5/2/2015 21:25:32 | 50.53 | 45.63 | 273 | 3.80 | 0.45 | 15.0 |
| 5/2/2015 21:25:32 | 50.85 | 45.95 | 345 | 4.16 | 0.46 | 18.9 |
| 5/2/2015 21:25:36 | 51.18 | 46.28 | 0 | 3.52 | 0.46 | 0.0 |
| 5/2/2015 21:25:39 | 51.51 | 46.61 | 138 | 6.96 | 0.50 | 7.5 |
| 5/2/2015 21:25:45 | 51.84 | 46.94 | 0 | 4.89 | 0.49 | 0.0 |
| 5/2/2015 21:25:46 | 52.17 | 47.27 | 102 | 3.68 | 0.46 | 5.6 |
| 5/2/2015 21:25:47 | 52.49 | 47.59 | 273 | 3.66 | 0.47 | 14.9 |
| 5/2/2015 21:25:48 | 52.82 | 47.92 | 353 | 3.73 | 0.46 | 19.3 |
| 5/2/2015 21:25:49 | 53.15 | 48.25 | 403 | 3.64 | 0.44 | 22.0 |
| 5/2/2015 21:25:49 | 53.48 | 48.58 | 426 | 2.85 | 0.44 | 23.3 |
| 5/2/2015 21:25:50 | 53.81 | 48.91 | 467 | 3.31 | 0.46 | 25.5 |
| 5/2/2015 21:25:57 | 54.13 | 49.23 | 69 | 3.40 | 0.49 | 3.8 |
| 5/2/2015 21:25:59 | 54.46 | 49.56 | 147 | 3.60 | 0.46 | 8.0 |
| 5/2/2015 21:26:14 | 54.79 | 49.89 | 59 | 3.50 | 0.46 | 3.2 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5/2/2015 21:26:24 | 55.12 | 50.22 | 6 | 3.61 | 0.47 | 0.3 |
| 5/2/2015 21:26:28 | 55.45 | 50.55 | 0 | 3.24 | 0.46 | 0.0 |
| 5/2/2015 21:26:34 | 55.77 | 50.87 | 14 | 3.25 | 0.49 | 0.8 |
| 5/2/2015 21:27:09 | 56.10 | 51.20 | 18 | 3.45 | 0.48 | 1.0 |
| 5/2/2015 21:27:14 | 56.43 | 51.53 | 0 | 3.01 | 0.47 | 0.0 |
| 5/2/2015 21:27:28 | 56.76 | 51.86 | 29 | 3.16 | 0.48 | 1.6 |
| 5/2/2015 21:27:34 | 57.09 | 52.19 | 26 | 3.81 | 0.47 | 1.4 |
| 5/2/2015 21:27:39 | 57.41 | 52.51 | 80 | 4.07 | 0.49 | 4.4 |
| 5/2/2015 21:27:50 | 57.74 | 52.84 | 0 | 3.62 | 0.48 | 0.0 |
| 5/2/2015 21:28:02 | 58.07 | 53.17 | 69 | 4.93 | 0.48 | 3.8 |
| 5/2/2015 21:28:18 | 58.40 | 53.50 | 37 | 5.71 | 0.49 | 2.0 |
| 5/2/2015 21:28:26 | 58.73 | 53.83 | 51 | 3.61 | 0.44 | 2.8 |
| 5/2/2015 21:28:31 | 59.06 | 54.16 | 51 | 4.16 | 0.48 | 2.8 |
| 5/2/2015 21:28:41 | 59.38 | 54.48 | 21 | 5.84 | 0.49 | 1.2 |

## P80 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:23:37

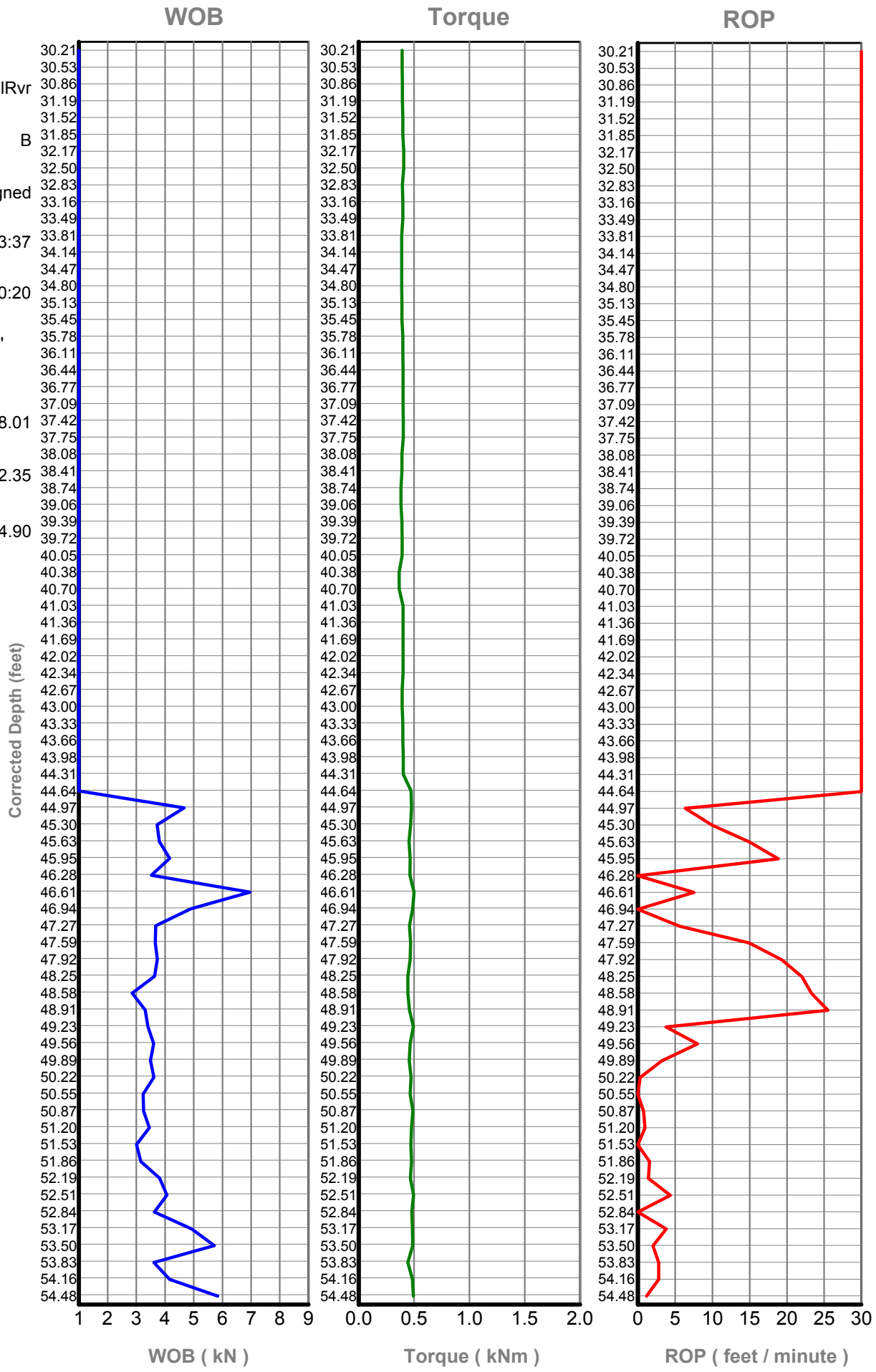
**End Date:**
5/2/2015 21:30:20

**Operator Note:**
'4.9 4.4b Auto Complete'

**Northing:**
349,598.01

**Easting:**
225,292.35

**Tide (feet):**
4.90



## Hole: P81 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 21:23:50 | 35.11 | 30.21 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/2/2015 21:23:50 | 35.43 | 30.53 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 21:23:51 | 35.76 | 30.86 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 21:23:51 | 36.09 | 31.19 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/2/2015 21:23:51 | 36.42 | 31.52 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 21:23:52 | 36.75 | 31.85 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/2/2015 21:23:52 | 37.07 | 32.17 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 21:23:52 | 37.40 | 32.50 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 21:23:53 | 37.73 | 32.83 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 21:23:53 | 38.06 | 33.16 | 1,104 | 1.14 | 0.29 | 60.3 |
| 5/2/2015 21:23:53 | 38.39 | 33.49 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 21:23:54 | 38.71 | 33.81 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/2/2015 21:23:54 | 39.04 | 34.14 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:23:54 | 39.37 | 34.47 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:23:55 | 39.70 | 34.80 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/2/2015 21:23:55 | 40.03 | 35.13 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 21:23:55 | 40.35 | 35.45 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/2/2015 21:23:55 | 40.68 | 35.78 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 21:23:56 | 41.01 | 36.11 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 21:23:56 | 41.34 | 36.44 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/2/2015 21:23:56 | 41.67 | 36.77 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 21:23:57 | 41.99 | 37.09 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 21:23:57 | 42.32 | 37.42 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/2/2015 21:23:57 | 42.65 | 37.75 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 21:23:58 | 42.98 | 38.08 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 21:23:58 | 43.31 | 38.41 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/2/2015 21:23:59 | 43.64 | 38.74 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 21:23:59 | 43.96 | 39.06 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 21:23:59 | 44.29 | 39.39 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 21:24:00 | 44.62 | 39.72 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 21:24:00 | 44.95 | 40.05 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/2/2015 21:24:00 | 45.28 | 40.38 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/2/2015 21:24:01 | 45.60 | 40.70 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:01 | 45.93 | 41.03 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:01 | 46.26 | 41.36 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:02 | 46.59 | 41.69 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:02 | 46.92 | 42.02 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:02 | 47.24 | 42.34 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 21:24:03 | 47.57 | 42.67 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/2/2015 21:24:03 | 47.90 | 43.00 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:24:03 | 48.23 | 43.33 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:24:04 | 48.56 | 43.66 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:24:04 | 48.88 | 43.98 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/2/2015 21:24:04 | 49.21 | 44.31 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/2/2015 21:24:27 | 49.54 | 44.64 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 21:24:30 | 49.87 | 44.97 | 62 | 1.14 | 0.29 | 3.4 |
| 5/2/2015 21:24:47 | 50.20 | 45.30 | 47 | 1.14 | 0.29 | 2.6 |
| 5/2/2015 21:25:02 | 50.53 | 45.63 | 52 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 21:25:10 | 50.85 | 45.95 | 43 | 1.14 | 0.29 | 2.3 |
| 5/2/2015 21:25:20 | 51.18 | 46.28 | 17 | 1.14 | 0.29 | 1.0 |
| 5/2/2015 21:25:30 | 51.51 | 46.61 | 38 | 1.14 | 0.29 | 2.1 |
| 5/2/2015 21:25:40 | 51.84 | 46.94 | 35 | 1.14 | 0.29 | 1.9 |
| 5/2/2015 21:25:48 | 52.08 | 47.18 | 32 | 1.14 | 0.29 | 1.7 |

## P81 - Summary

**Pattern Number:**
AreaP_Lane3-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 21:22:48

**End Date:**
5/2/2015 21:27:04

**Operator Note:**
'4.9 4.4 c Auto Complete'

**Northing:**
349,635.10

**Easting:**
225,357.50

**Tide (feet):**
4.90



## Hole: P82 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:46:19 | 33.14 | 30.04 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:20 | 33.46 | 30.36 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:20 | 33.79 | 30.69 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:20 | 34.12 | 31.02 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:21 | 34.45 | 31.35 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:22 | 34.78 | 31.68 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:22 | 35.11 | 32.01 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:22 | 35.43 | 32.33 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:46:23 | 35.76 | 32.66 | 995 | 0.54 | 0.17 | 54.4 |
| 5/2/2015 15:46:23 | 36.09 | 32.99 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:23 | 36.42 | 33.32 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:24 | 36.75 | 33.65 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:24 | 37.07 | 33.97 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:24 | 37.40 | 34.30 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:25 | 37.73 | 34.63 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:25 | 38.06 | 34.96 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:25 | 38.39 | 35.29 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:26 | 38.71 | 35.61 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:26 | 39.04 | 35.94 | 986 | 0.54 | 0.17 | 53.9 |
| 5/2/2015 15:46:26 | 39.37 | 36.27 | 983 | 0.54 | 0.17 | 53.7 |
| 5/2/2015 15:46:27 | 39.70 | 36.60 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:27 | 40.03 | 36.93 | 988 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:27 | 40.35 | 37.25 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 15:46:28 | 40.68 | 37.58 | 983 | 0.54 | 0.17 | 53.7 |
| 5/2/2015 15:46:28 | 41.01 | 37.91 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 15:46:29 | 41.34 | 38.24 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 15:46:29 | 41.67 | 38.57 | 981 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:29 | 41.99 | 38.89 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:46:30 | 42.32 | 39.22 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:46:30 | 42.65 | 39.55 | 981 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:30 | 42.98 | 39.88 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:46:31 | 43.31 | 40.21 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:46:31 | 43.64 | 40.54 | 989 | 0.54 | 0.17 | 54.1 |
| 5/2/2015 15:46:31 | 43.96 | 40.86 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:32 | 44.29 | 41.19 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:33 | 44.62 | 41.52 | 980 | 0.54 | 0.17 | 53.6 |
| 5/2/2015 15:46:32 | 44.95 | 41.85 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 15:46:33 | 45.28 | 42.18 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 15:46:34 | 45.60 | 42.50 | 974 | 0.54 | 0.17 | 53.3 |
| 5/2/2015 15:46:34 | 45.93 | 42.83 | 968 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 15:46:34 | 46.26 | 43.16 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 15:46:35 | 46.59 | 43.49 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 15:46:35 | 46.92 | 43.82 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 15:46:35 | 47.24 | 44.14 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 15:46:36 | 47.57 | 44.47 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 15:46:36 | 47.90 | 44.80 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 15:46:36 | 48.23 | 45.13 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 15:46:49 | 48.56 | 45.46 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 15:46:58 | 48.88 | 45.78 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 15:46:49 | 49.21 | 46.11 | 173 | 0.54 | 0.17 | 9.5 |
| 5/2/2015 15:46:52 | 49.54 | 46.44 | 123 | 0.54 | 0.17 | 6.7 |
| 5/2/2015 15:46:53 | 49.87 | 46.77 | 211 | 0.54 | 0.17 | 11.6 |
| 5/2/2015 15:46:54 | 50.20 | 47.10 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 15:46:55 | 50.53 | 47.43 | 364 | 0.54 | 0.17 | 19.9 |
| 5/2/2015 15:46:55 | 50.85 | 47.75 | 434 | 0.54 | 0.17 | 23.7 |
| 5/2/2015 15:46:57 | 51.18 | 48.08 | 419 | 0.54 | 0.17 | 22.9 |
| 5/2/2015 15:46:58 | 51.51 | 48.41 | 396 | 0.54 | 0.17 | 21.6 |
| 5/2/2015 15:46:58 | 51.84 | 48.74 | 393 | 0.54 | 0.17 | 21.5 |
| 5/2/2015 15:46:59 | 52.17 | 49.07 | 370 | 0.54 | 0.17 | 20.2 |
| 5/2/2015 15:47:01 | 52.49 | 49.39 | 335 | 0.54 | 0.17 | 18.3 |
| 5/2/2015 15:47:01 | 52.82 | 49.72 | 326 | 0.54 | 0.17 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 15:47:02 | 53.15 | 50.05 | 407 | 0.54 | 0.17 | 22.2 |
| 5/2/2015 | 15:47:03 | 53.48 | 50.38 | 411 | 0.54 | 0.17 | 22.5 |
| 5/2/2015 | 15:47:07 | 53.81 | 50.71 | 110 | 0.54 | 0.17 | 6.0 |
| 5/2/2015 | 15:47:10 | 54.13 | 51.03 | 111 | 0.54 | 0.17 | 6.1 |
| 5/2/2015 | 15:47:14 | 54.46 | 51.36 | 101 | 0.54 | 0.17 | 5.5 |
| 5/2/2015 | 15:47:21 | 54.79 | 51.69 | 6 | 0.54 | 0.17 | 0.3 |
| 5/2/2015 | 15:47:28 | 55.12 | 52.02 | 15 | 0.54 | 0.17 | 0.8 |
| 5/2/2015 | 15:47:35 | 55.45 | 52.35 | 6 | 0.54 | 0.17 | 0.3 |
| 5/2/2015 | 15:47:43 | 55.77 | 52.67 | 44 | 0.54 | 0.17 | 2.4 |
| 5/2/2015 | 15:47:52 | 56.10 | 53.00 | 41 | 0.54 | 0.17 | 2.2 |
| 5/2/2015 | 15:48:02 | 56.43 | 53.33 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 15:48:11 | 56.76 | 53.66 | 38 | 0.54 | 0.17 | 2.1 |
| 5/2/2015 | 15:48:21 | 57.09 | 53.99 | 35 | 0.54 | 0.17 | 1.9 |
| 5/2/2015 | 15:48:23 | 57.16 | 54.06 | 38 | 0.54 | 0.17 | 2.1 |

## P82 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:44:59

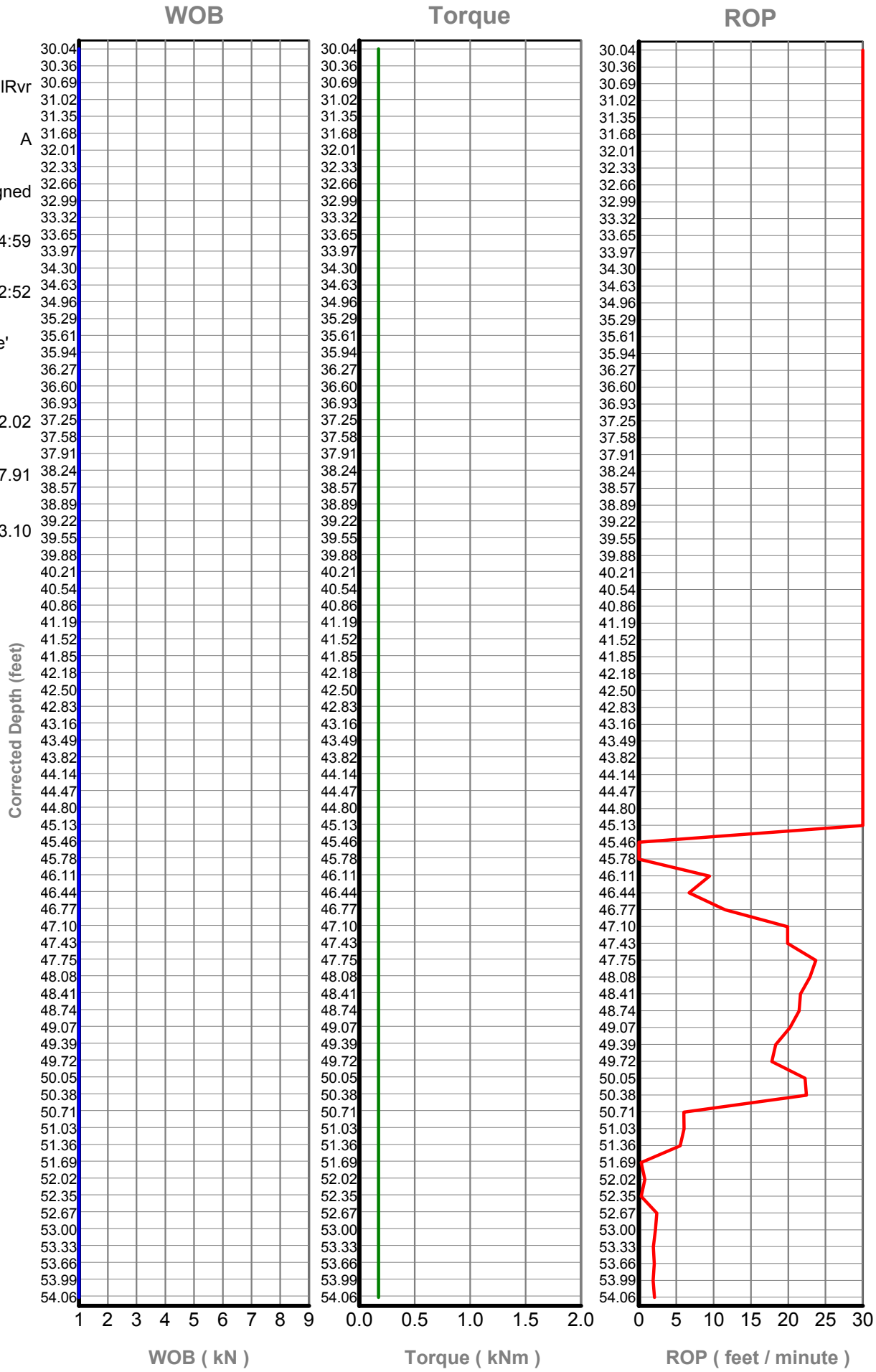
**End Date:**
5/2/2015 15:52:52

**Operator Note:**
'3.1 3.2 a Auto Complete'

**Northing:**
349,682.02

**Easting:**
225,417.91

**Tide (feet):**
3.10



## Hole: P83 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:46:36 | 33.14 | 30.04 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/2/2015 15:46:35 | 33.46 | 30.36 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/2/2015 15:46:36 | 33.79 | 30.69 | 1,339 | 0.26 | 0.37 | 73.2 |
| 5/2/2015 15:46:36 | 34.12 | 31.02 | 1,359 | 0.29 | 0.38 | 74.3 |
| 5/2/2015 15:46:37 | 34.45 | 31.35 | 1,359 | 0.29 | 0.38 | 74.3 |
| 5/2/2015 15:46:37 | 34.78 | 31.68 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/2/2015 15:46:37 | 35.11 | 32.01 | 1,356 | 0.26 | 0.39 | 74.1 |
| 5/2/2015 15:46:37 | 35.43 | 32.33 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 15:46:38 | 35.76 | 32.66 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 15:46:38 | 36.09 | 32.99 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 15:46:38 | 36.42 | 33.32 | 1,350 | 0.27 | 0.39 | 73.8 |
| 5/2/2015 15:46:38 | 36.75 | 33.65 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/2/2015 15:46:39 | 37.07 | 33.97 | 1,353 | 0.26 | 0.38 | 74.0 |
| 5/2/2015 15:46:39 | 37.40 | 34.30 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 15:46:39 | 37.73 | 34.63 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 15:46:39 | 38.06 | 34.96 | 1,347 | 0.27 | 0.39 | 73.7 |
| 5/2/2015 15:46:40 | 38.39 | 35.29 | 1,347 | 0.27 | 0.39 | 73.7 |
| 5/2/2015 15:46:40 | 38.71 | 35.61 | 1,345 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:46:40 | 39.04 | 35.94 | 1,345 | 0.26 | 0.40 | 73.6 |
| 5/2/2015 15:46:40 | 39.37 | 36.27 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:46:41 | 39.70 | 36.60 | 1,356 | 0.26 | 0.38 | 74.1 |
| 5/2/2015 15:46:41 | 40.03 | 36.93 | 1,353 | 0.27 | 0.40 | 74.0 |
| 5/2/2015 15:46:41 | 40.35 | 37.25 | 1,353 | 0.27 | 0.40 | 74.0 |
| 5/2/2015 15:46:41 | 40.68 | 37.58 | 1,350 | 0.27 | 0.37 | 73.8 |
| 5/2/2015 15:46:42 | 41.01 | 37.91 | 1,350 | 0.27 | 0.37 | 73.8 |
| 5/2/2015 15:46:42 | 41.34 | 38.24 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 15:46:42 | 41.67 | 38.57 | 1,350 | 0.27 | 0.40 | 73.8 |
| 5/2/2015 15:46:42 | 41.99 | 38.89 | 1,353 | 0.26 | 0.40 | 74.0 |
| 5/2/2015 15:46:43 | 42.32 | 39.22 | 1,353 | 0.26 | 0.40 | 74.0 |
| 5/2/2015 15:46:43 | 42.65 | 39.55 | 1,350 | 0.27 | 0.38 | 73.8 |
| 5/2/2015 15:46:44 | 42.98 | 39.88 | 1,350 | 0.27 | 0.38 | 73.8 |
| 5/2/2015 15:46:44 | 43.31 | 40.21 | 1,347 | 0.27 | 0.40 | 73.7 |
| 5/2/2015 15:46:44 | 43.64 | 40.54 | 1,347 | 0.27 | 0.40 | 73.7 |
| 5/2/2015 15:46:44 | 43.96 | 40.86 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 15:46:44 | 44.29 | 41.19 | 1,347 | 0.27 | 0.38 | 73.7 |
| 5/2/2015 15:46:45 | 44.62 | 41.52 | 1,353 | 0.27 | 0.40 | 74.0 |
| 5/2/2015 15:46:45 | 44.95 | 41.85 | 1,352 | 0.26 | 0.38 | 73.9 |
| 5/2/2015 15:46:46 | 45.28 | 42.18 | 1,352 | 0.26 | 0.38 | 73.9 |
| 5/2/2015 15:46:46 | 45.60 | 42.50 | 1,341 | 0.27 | 0.39 | 73.3 |
| 5/2/2015 15:46:46 | 45.93 | 42.83 | 1,341 | 0.27 | 0.39 | 73.3 |
| 5/2/2015 15:46:46 | 46.26 | 43.16 | 1,344 | 0.27 | 0.39 | 73.5 |
| 5/2/2015 15:46:47 | 46.59 | 43.49 | 1,344 | 0.27 | 0.39 | 73.5 |
| 5/2/2015 15:46:47 | 46.92 | 43.82 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/2/2015 15:46:47 | 47.24 | 44.14 | 1,347 | 0.26 | 0.38 | 73.7 |
| 5/2/2015 15:46:47 | 47.57 | 44.47 | 1,338 | 0.25 | 0.43 | 73.2 |
| 5/2/2015 15:46:48 | 47.90 | 44.80 | 1,338 | 0.25 | 0.43 | 73.2 |
| 5/2/2015 15:46:53 | 48.23 | 45.13 | 91 | 3.67 | 0.49 | 5.0 |
| 5/2/2015 15:46:56 | 48.56 | 45.46 | 112 | 4.23 | 0.50 | 6.1 |
| 5/2/2015 15:46:57 | 48.88 | 45.78 | 184 | 3.67 | 0.46 | 10.1 |
| 5/2/2015 15:47:07 | 49.21 | 46.11 | 0 | 4.29 | 0.46 | 0.0 |
| 5/2/2015 15:47:09 | 49.54 | 46.44 | 140 | 4.45 | 0.47 | 7.7 |
| 5/2/2015 15:47:20 | 49.87 | 46.77 | 0 | 3.05 | 0.47 | 0.0 |
| 5/2/2015 15:47:37 | 50.20 | 47.10 | 64 | 3.83 | 0.49 | 3.5 |
| 5/2/2015 15:47:46 | 50.53 | 47.43 | 71 | 3.33 | 0.49 | 3.9 |
| 5/2/2015 15:47:53 | 50.85 | 47.75 | 46 | 2.56 | 0.49 | 2.5 |
| 5/2/2015 15:48:00 | 51.18 | 48.08 | 54 | 3.31 | 0.49 | 3.0 |
| 5/2/2015 15:48:02 | 51.51 | 48.41 | 124 | 4.24 | 0.48 | 6.8 |
| 5/2/2015 15:48:03 | 51.84 | 48.74 | 257 | 3.24 | 0.48 | 14.0 |
| 5/2/2015 15:48:04 | 52.17 | 49.07 | 341 | 3.61 | 0.47 | 18.6 |
| 5/2/2015 15:48:18 | 52.49 | 49.39 | 82 | 3.08 | 0.48 | 4.5 |
| 5/2/2015 15:48:20 | 52.82 | 49.72 | 162 | 2.99 | 0.48 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 15:48:23 | 53.15 | 50.05 | 98 | 3.41 | 0.49 | 5.4 |
| 5/2/2015 | 15:48:27 | 53.48 | 50.38 | 106 | 3.84 | 0.49 | 5.8 |
| 5/2/2015 | 15:48:29 | 53.81 | 50.71 | 136 | 5.37 | 0.48 | 7.4 |
| 5/2/2015 | 15:48:31 | 54.13 | 51.03 | 184 | 3.96 | 0.48 | 10.1 |
| 5/2/2015 | 15:48:33 | 54.46 | 51.36 | 177 | 5.20 | 0.47 | 9.7 |
| 5/2/2015 | 15:48:38 | 54.79 | 51.69 | 0 | 3.00 | 0.47 | 0.0 |
| 5/2/2015 | 15:48:40 | 55.12 | 52.02 | 107 | 3.56 | 0.47 | 5.9 |
| 5/2/2015 | 15:48:42 | 55.45 | 52.35 | 187 | 3.29 | 0.49 | 10.2 |
| 5/2/2015 | 15:48:45 | 55.77 | 52.67 | 110 | 3.21 | 0.55 | 6.0 |
| 5/2/2015 | 15:48:48 | 56.10 | 53.00 | 145 | 4.81 | 0.48 | 8.0 |
| 5/2/2015 | 15:48:49 | 56.43 | 53.33 | 218 | 4.19 | 0.47 | 11.9 |
| 5/2/2015 | 15:48:51 | 56.76 | 53.66 | 188 | 2.62 | 0.48 | 10.3 |
| 5/2/2015 | 15:49:10 | 57.09 | 53.99 | 41 | 2.80 | 0.49 | 2.2 |
| 5/2/2015 | 15:49:18 | 57.41 | 54.31 | 49 | 2.64 | 0.48 | 2.7 |
| 5/2/2015 | 15:49:26 | 57.74 | 54.64 | 43 | 2.93 | 0.49 | 2.3 |
| 5/2/2015 | 15:49:30 | 57.90 | 54.80 | 42 | 2.71 | 0.49 | 2.3 |

## P83 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:44:05

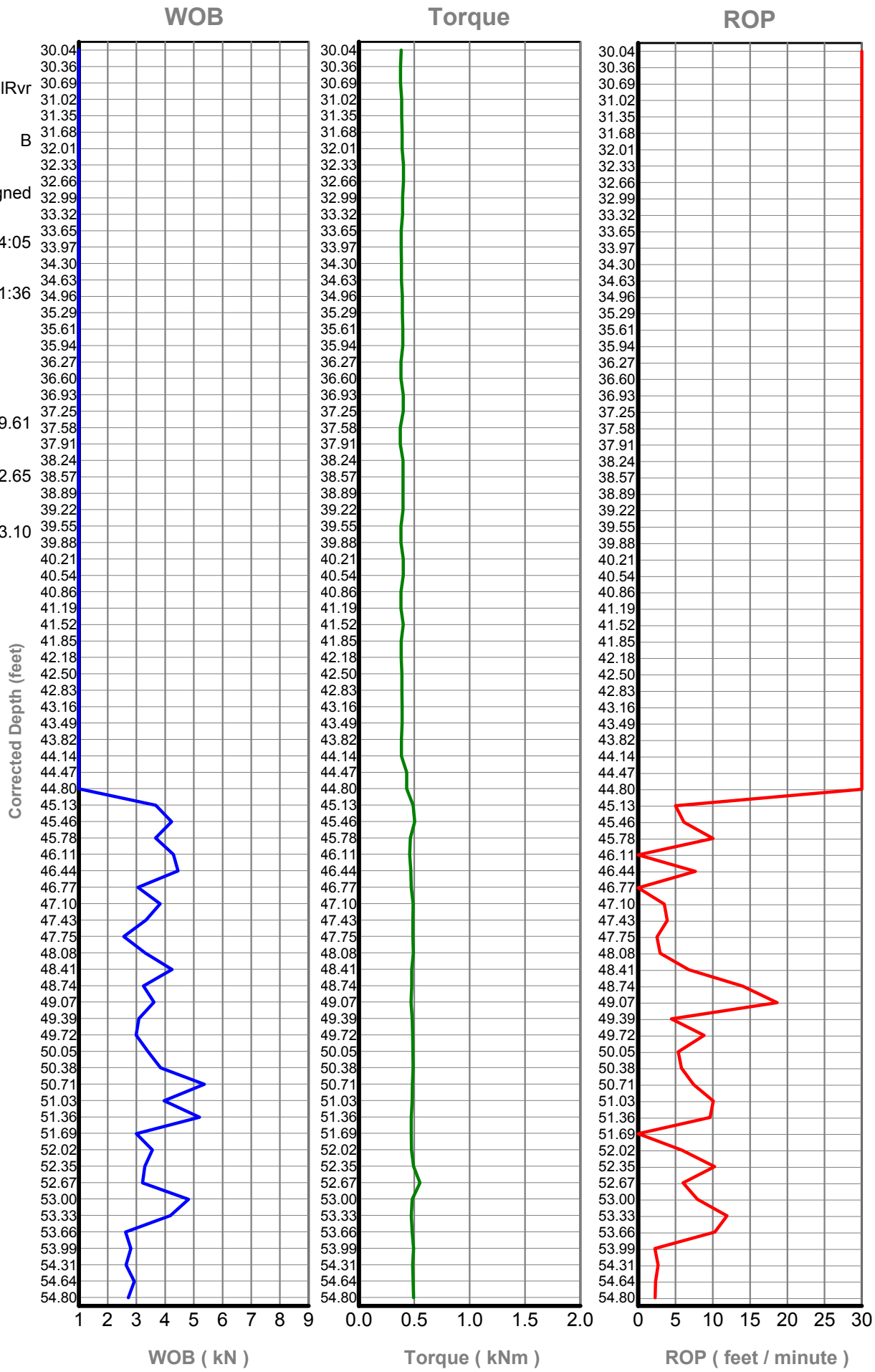
**End Date:**
5/2/2015 15:51:36

**Operator Note:**
'3.1 3.2 b Rock'

**Northing:**
349,719.61

**Easting:**
225,482.65

**Tide (feet):**
3.10



## Hole: P84 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 15:45:32 | 33.14 | 30.04 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:33 | 33.46 | 30.36 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:33 | 33.79 | 30.69 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 15:45:33 | 34.12 | 31.02 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 15:45:33 | 34.45 | 31.35 | 1,159 | 1.14 | 0.29 | 63.4 |
| 5/2/2015 15:45:34 | 34.78 | 31.68 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 15:45:34 | 35.11 | 32.01 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 15:45:34 | 35.43 | 32.33 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:45:35 | 35.76 | 32.66 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:45:35 | 36.09 | 32.99 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 15:45:35 | 36.42 | 33.32 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/2/2015 15:45:36 | 36.75 | 33.65 | 1,158 | 1.14 | 0.29 | 63.3 |
| 5/2/2015 15:45:36 | 37.07 | 33.97 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:45:36 | 37.40 | 34.30 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:45:36 | 37.73 | 34.63 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 15:45:37 | 38.06 | 34.96 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:37 | 38.39 | 35.29 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:37 | 38.71 | 35.61 | 1,153 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 15:45:38 | 39.04 | 35.94 | 1,153 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 15:45:38 | 39.37 | 36.27 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 15:45:38 | 39.70 | 36.60 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:39 | 40.03 | 36.93 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:39 | 40.35 | 37.25 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:39 | 40.68 | 37.58 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:40 | 41.01 | 37.91 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:40 | 41.34 | 38.24 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:40 | 41.67 | 38.57 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 15:45:40 | 41.99 | 38.89 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 15:45:41 | 42.32 | 39.22 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:41 | 42.65 | 39.55 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:41 | 42.98 | 39.88 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:42 | 43.31 | 40.21 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:42 | 43.64 | 40.54 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:42 | 43.96 | 40.86 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:45:43 | 44.29 | 41.19 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:45:43 | 44.62 | 41.52 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:43 | 44.95 | 41.85 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:43 | 45.28 | 42.18 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 15:45:44 | 45.60 | 42.50 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:45:45 | 45.93 | 42.83 | 1,127 | 1.14 | 0.29 | 61.6 |
| 5/2/2015 15:45:45 | 46.26 | 43.16 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:45 | 46.59 | 43.49 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:45 | 46.92 | 43.82 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:46 | 47.24 | 44.14 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:46 | 47.57 | 44.47 | 1,134 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 15:45:46 | 47.90 | 44.80 | 1,123 | 1.14 | 0.29 | 61.4 |
| 5/2/2015 15:46:02 | 48.23 | 45.13 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 15:46:03 | 48.56 | 45.46 | 106 | 1.14 | 0.29 | 5.8 |
| 5/2/2015 15:46:03 | 48.88 | 45.78 | 265 | 1.14 | 0.29 | 14.5 |
| 5/2/2015 15:46:04 | 49.21 | 46.11 | 403 | 1.14 | 0.29 | 22.0 |
| 5/2/2015 15:46:04 | 49.54 | 46.44 | 534 | 1.14 | 0.29 | 29.2 |
| 5/2/2015 15:46:05 | 49.87 | 46.77 | 643 | 1.14 | 0.29 | 35.2 |
| 5/2/2015 15:46:06 | 50.20 | 47.10 | 605 | 1.14 | 0.29 | 33.1 |
| 5/2/2015 15:46:41 | 50.53 | 47.43 | 29 | 1.14 | 0.29 | 1.6 |
| 5/2/2015 15:46:42 | 50.85 | 47.75 | 138 | 1.14 | 0.29 | 7.5 |
| 5/2/2015 15:46:42 | 51.18 | 48.08 | 247 | 1.14 | 0.29 | 13.5 |
| 5/2/2015 15:47:12 | 51.51 | 48.41 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 15:47:13 | 51.84 | 48.74 | 139 | 1.14 | 0.29 | 7.6 |
| 5/2/2015 15:47:15 | 52.17 | 49.07 | 259 | 1.14 | 0.29 | 14.2 |
| 5/2/2015 15:47:59 | 52.49 | 49.39 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 15:48:01 | 52.82 | 49.72 | 163 | 1.14 | 0.29 | 8.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 15:48:02 | 53.15 | 50.05 | 194 | 1.14 | 0.29 | 10.6 |
| 5/2/2015 | 15:48:04 | 53.48 | 50.38 | 202 | 1.14 | 0.29 | 11.1 |
| 5/2/2015 | 15:48:09 | 53.81 | 50.71 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 15:48:12 | 54.13 | 51.03 | 118 | 1.14 | 0.29 | 6.4 |
| 5/2/2015 | 15:48:15 | 54.46 | 51.36 | 111 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 | 15:48:19 | 54.79 | 51.69 | 81 | 1.14 | 0.29 | 4.4 |
| 5/2/2015 | 15:48:23 | 55.12 | 52.02 | 99 | 1.14 | 0.29 | 5.4 |
| 5/2/2015 | 15:48:29 | 55.45 | 52.35 | 57 | 1.14 | 0.29 | 3.1 |
| 5/2/2015 | 15:48:32 | 55.77 | 52.67 | 139 | 1.14 | 0.29 | 7.6 |
| 5/2/2015 | 15:48:38 | 56.10 | 53.00 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 15:48:44 | 56.43 | 53.33 | 67 | 1.14 | 0.29 | 3.7 |
| 5/2/2015 | 15:48:50 | 56.76 | 53.66 | 55 | 1.14 | 0.29 | 3.0 |
| 5/2/2015 | 15:48:57 | 57.09 | 53.99 | 52 | 1.14 | 0.29 | 2.9 |
| 5/2/2015 | 15:49:04 | 57.41 | 54.31 | 46 | 1.14 | 0.29 | 2.5 |
| 5/2/2015 | 15:49:14 | 57.74 | 54.64 | 31 | 1.14 | 0.29 | 1.7 |
| 5/2/2015 | 15:49:15 | 57.79 | 54.69 | 32 | 1.14 | 0.29 | 1.7 |

## P84 - Summary

**Pattern Number:**
AreaP_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 15:44:23

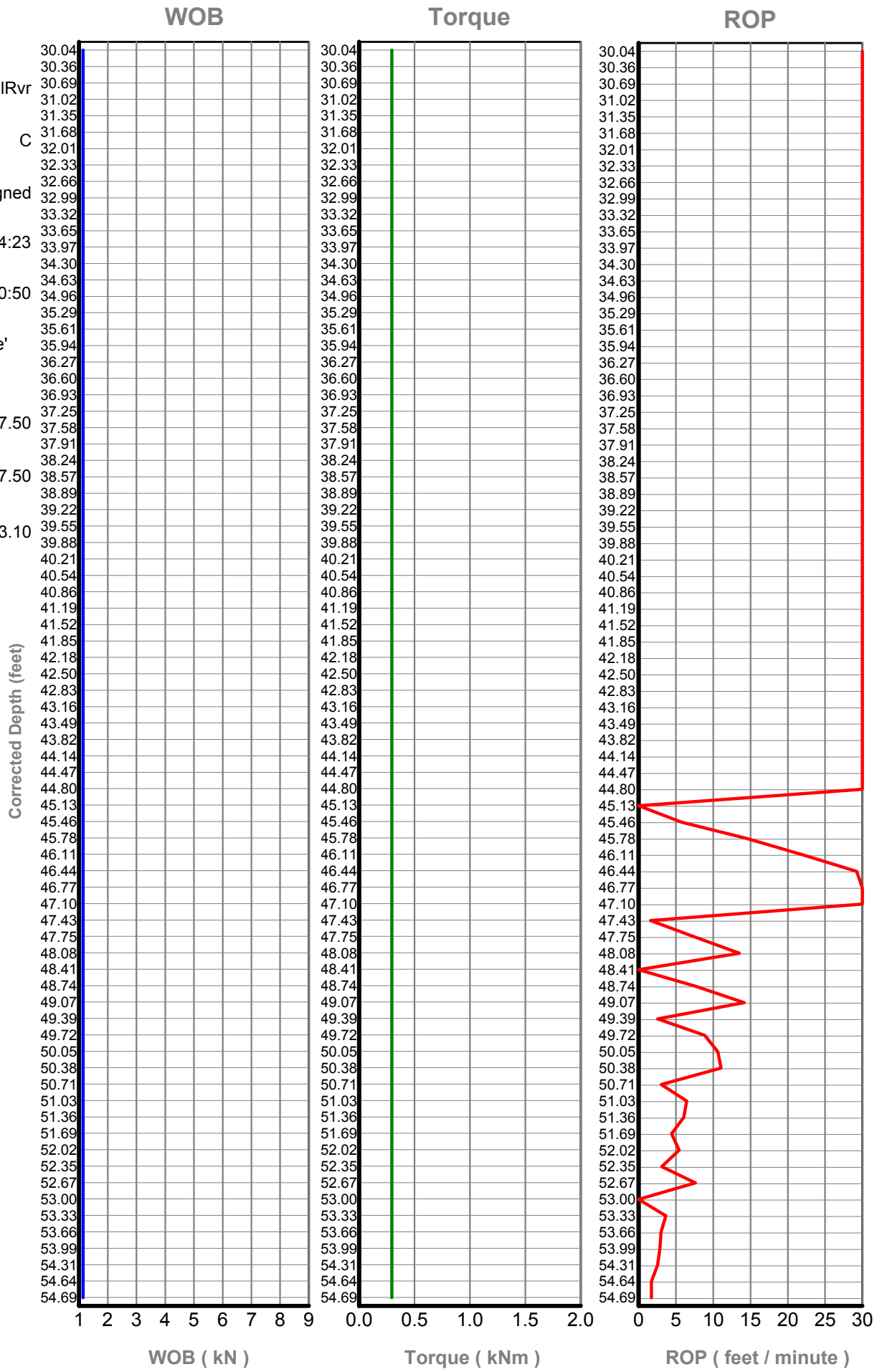
**End Date:**
5/2/2015 15:50:50

**Operator Note:**
'3.1 3.2 c Auto Complete'

**Northing:**
349,757.50

**Easting:**
225,547.50

**Tide (feet):**
3.10



## Hole: P85 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:59:22 | 35.11 | 30.21 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:23 | 35.43 | 30.53 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:23 | 35.76 | 30.86 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:59:23 | 36.09 | 31.19 | 954 | 0.54 | 0.17 | 52.1 |
| 5/2/2015 13:59:24 | 36.42 | 31.52 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 13:59:24 | 36.75 | 31.85 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 13:59:24 | 37.07 | 32.17 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:25 | 37.40 | 32.50 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:25 | 37.73 | 32.83 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:25 | 38.06 | 33.16 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:59:26 | 38.39 | 33.49 | 972 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 13:59:26 | 38.71 | 33.81 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 13:59:27 | 39.04 | 34.14 | 977 | 0.54 | 0.17 | 53.4 |
| 5/2/2015 13:59:27 | 39.37 | 34.47 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 13:59:27 | 39.70 | 34.80 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 13:59:28 | 40.03 | 35.13 | 978 | 0.54 | 0.17 | 53.5 |
| 5/2/2015 13:59:28 | 40.35 | 35.45 | 971 | 0.54 | 0.17 | 53.1 |
| 5/2/2015 13:59:28 | 40.68 | 35.78 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:59:29 | 41.01 | 36.11 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:59:29 | 41.34 | 36.44 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:59:29 | 41.67 | 36.77 | 969 | 0.54 | 0.17 | 53.0 |
| 5/2/2015 13:59:30 | 41.99 | 37.09 | 965 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:59:30 | 42.32 | 37.42 | 965 | 0.54 | 0.17 | 52.8 |
| 5/2/2015 13:59:30 | 42.65 | 37.75 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:59:31 | 42.98 | 38.08 | 962 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:59:32 | 43.31 | 38.41 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:32 | 43.64 | 38.74 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:32 | 43.96 | 39.06 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:33 | 44.29 | 39.39 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:33 | 44.62 | 39.72 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:33 | 44.95 | 40.05 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:59:34 | 45.28 | 40.38 | 963 | 0.54 | 0.17 | 52.6 |
| 5/2/2015 13:59:34 | 45.60 | 40.70 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:59:35 | 45.93 | 41.03 | 957 | 0.54 | 0.17 | 52.3 |
| 5/2/2015 13:59:35 | 46.26 | 41.36 | 960 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:35 | 46.59 | 41.69 | 959 | 0.54 | 0.17 | 52.5 |
| 5/2/2015 13:59:36 | 46.92 | 42.02 | 954 | 0.54 | 0.17 | 52.1 |
| 5/2/2015 13:59:36 | 47.24 | 42.34 | 954 | 0.54 | 0.17 | 52.1 |
| 5/2/2015 13:59:36 | 47.57 | 42.67 | 954 | 0.54 | 0.17 | 52.2 |
| 5/2/2015 13:59:37 | 47.90 | 43.00 | 948 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 13:59:37 | 48.23 | 43.33 | 948 | 0.54 | 0.17 | 51.9 |
| 5/2/2015 13:59:37 | 48.56 | 43.66 | 958 | 0.54 | 0.17 | 52.4 |
| 5/2/2015 13:59:38 | 48.88 | 43.98 | 939 | 0.54 | 0.17 | 51.3 |
| 5/2/2015 13:59:44 | 49.21 | 44.31 | 0 | 0.54 | 0.17 | 0.0 |
| 5/2/2015 13:59:46 | 49.54 | 44.64 | 74 | 0.54 | 0.17 | 4.0 |
| 5/2/2015 13:59:53 | 49.87 | 44.97 | 117 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 13:59:54 | 50.20 | 45.30 | 229 | 0.54 | 0.17 | 12.5 |
| 5/2/2015 13:59:55 | 50.53 | 45.63 | 352 | 0.54 | 0.17 | 19.2 |
| 5/2/2015 13:59:56 | 50.85 | 45.95 | 460 | 0.54 | 0.17 | 25.2 |
| 5/2/2015 13:59:57 | 51.18 | 46.28 | 396 | 0.54 | 0.17 | 21.7 |
| 5/2/2015 13:59:58 | 51.51 | 46.61 | 413 | 0.54 | 0.17 | 22.6 |
| 5/2/2015 14:00:08 | 51.84 | 46.94 | 7 | 0.54 | 0.17 | 0.4 |
| 5/2/2015 14:00:10 | 52.17 | 47.27 | 133 | 0.54 | 0.17 | 7.3 |
| 5/2/2015 14:00:13 | 52.49 | 47.59 | 131 | 0.54 | 0.17 | 7.2 |
| 5/2/2015 14:00:15 | 52.82 | 47.92 | 140 | 0.54 | 0.17 | 7.6 |
| 5/2/2015 14:00:17 | 53.15 | 48.25 | 150 | 0.54 | 0.17 | 8.2 |
| 5/2/2015 14:00:20 | 53.48 | 48.58 | 145 | 0.54 | 0.17 | 8.0 |
| 5/2/2015 14:00:21 | 53.81 | 48.91 | 213 | 0.54 | 0.17 | 11.6 |
| 5/2/2015 14:00:23 | 54.13 | 49.23 | 218 | 0.54 | 0.17 | 11.9 |
| 5/2/2015 14:00:26 | 54.46 | 49.56 | 101 | 0.54 | 0.17 | 5.5 |
| 5/2/2015 14:00:31 | 54.79 | 49.89 | 29 | 0.54 | 0.17 | 1.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:00:35 | 55.12 | 50.22 | 131 | 0.54 | 0.17 | 7.2 |
| 5/2/2015 | 14:00:37 | 55.45 | 50.55 | 118 | 0.54 | 0.17 | 6.4 |
| 5/2/2015 | 14:00:38 | 55.77 | 50.87 | 221 | 0.54 | 0.17 | 12.1 |
| 5/2/2015 | 14:00:40 | 56.10 | 51.20 | 279 | 0.54 | 0.17 | 15.3 |
| 5/2/2015 | 14:00:41 | 56.43 | 51.53 | 223 | 0.54 | 0.17 | 12.2 |
| 5/2/2015 | 14:00:43 | 56.76 | 51.86 | 229 | 0.54 | 0.17 | 12.5 |
| 5/2/2015 | 14:00:44 | 57.09 | 52.19 | 327 | 0.54 | 0.17 | 17.9 |
| 5/2/2015 | 14:00:48 | 57.41 | 52.51 | 57 | 0.54 | 0.17 | 3.1 |
| 5/2/2015 | 14:00:51 | 57.74 | 52.84 | 158 | 0.54 | 0.17 | 8.6 |
| 5/2/2015 | 14:00:53 | 58.07 | 53.17 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 | 14:00:55 | 58.40 | 53.50 | 186 | 0.54 | 0.17 | 10.2 |
| 5/2/2015 | 14:00:56 | 58.73 | 53.83 | 236 | 0.54 | 0.17 | 12.9 |
| 5/2/2015 | 14:00:59 | 59.06 | 54.16 | 144 | 0.54 | 0.17 | 7.9 |
| 5/2/2015 | 14:01:00 | 59.38 | 54.48 | 160 | 0.54 | 0.17 | 8.7 |
| 5/2/2015 | 14:01:01 | 59.71 | 54.81 | 244 | 0.54 | 0.17 | 13.3 |
| 5/2/2015 | 14:01:03 | 60.04 | 55.14 | 162 | 0.54 | 0.17 | 8.9 |
| 5/2/2015 | 14:01:05 | 60.26 | 55.36 | 142 | 0.54 | 0.17 | 7.8 |

## P85 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:57:57

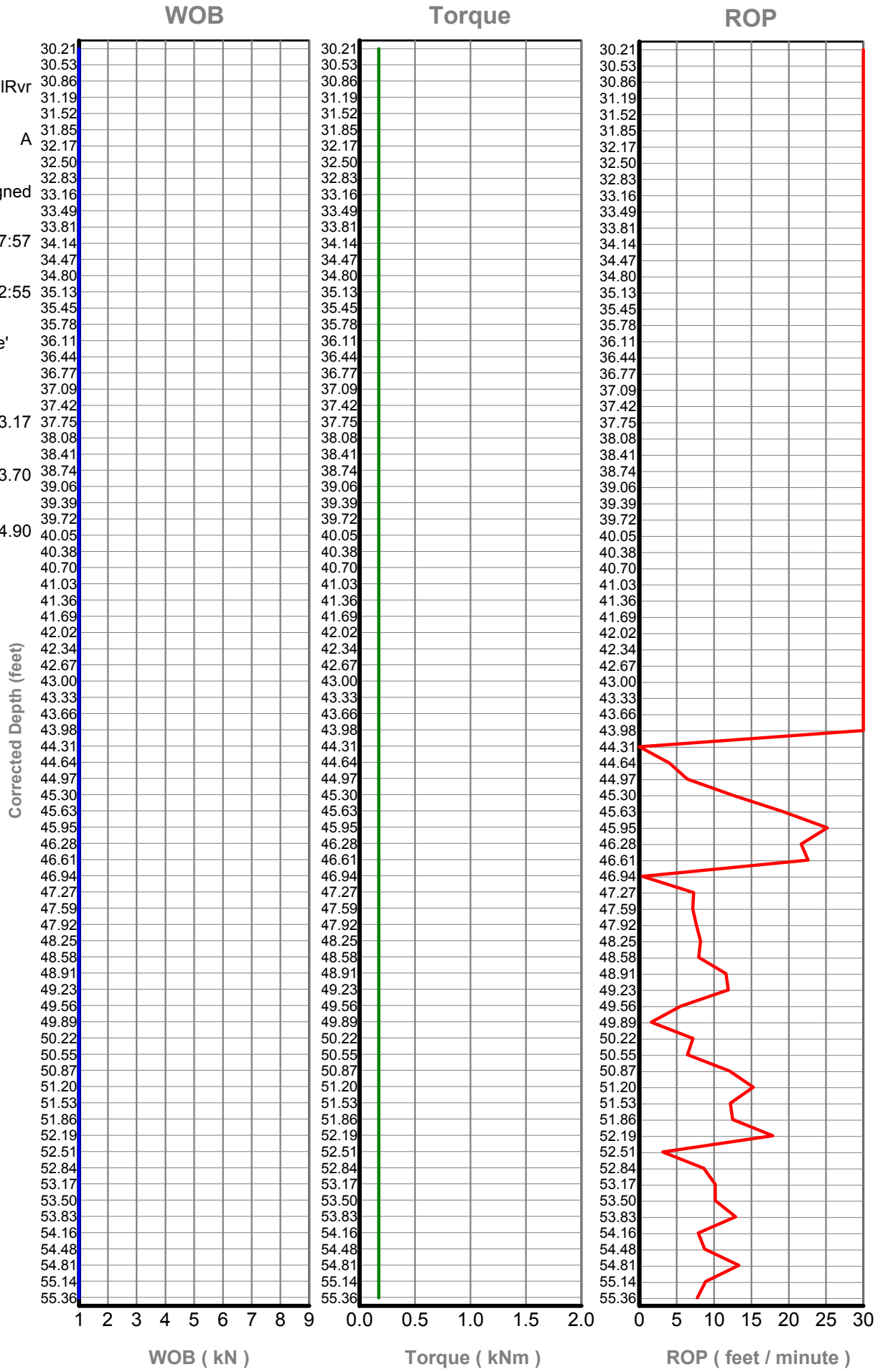
**End Date:**
5/2/2015 14:02:55

**Operator Note:**
'4.9 5.2 a Auto Complete'

**Northing:**
349,793.17

**Easting:**
225,613.70

**Tide (feet):**
4.90



## Hole: P86 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 14:01:34 | 35.11 | 30.21 | 1,305 | 0.29 | 0.40 | 71.4 |
| 5/2/2015 14:01:35 | 35.43 | 30.53 | 1,305 | 0.29 | 0.40 | 71.4 |
| 5/2/2015 14:01:35 | 35.76 | 30.86 | 1,316 | 0.29 | 0.40 | 72.0 |
| 5/2/2015 14:01:35 | 36.09 | 31.19 | 1,316 | 0.29 | 0.40 | 72.0 |
| 5/2/2015 14:01:35 | 36.42 | 31.52 | 1,293 | 0.29 | 0.38 | 70.7 |
| 5/2/2015 14:01:36 | 36.75 | 31.85 | 1,293 | 0.29 | 0.38 | 70.7 |
| 5/2/2015 14:01:36 | 37.07 | 32.17 | 1,307 | 0.29 | 0.39 | 71.5 |
| 5/2/2015 14:01:36 | 37.40 | 32.50 | 1,307 | 0.29 | 0.39 | 71.5 |
| 5/2/2015 14:01:36 | 37.73 | 32.83 | 1,304 | 0.29 | 0.38 | 71.3 |
| 5/2/2015 14:01:37 | 38.06 | 33.16 | 1,304 | 0.29 | 0.38 | 71.3 |
| 5/2/2015 14:01:37 | 38.39 | 33.49 | 1,304 | 0.29 | 0.38 | 71.3 |
| 5/2/2015 14:01:37 | 38.71 | 33.81 | 1,304 | 0.29 | 0.39 | 71.3 |
| 5/2/2015 14:01:38 | 39.04 | 34.14 | 1,304 | 0.29 | 0.39 | 71.3 |
| 5/2/2015 14:01:38 | 39.37 | 34.47 | 1,307 | 0.29 | 0.39 | 71.5 |
| 5/2/2015 14:01:38 | 39.70 | 34.80 | 1,307 | 0.29 | 0.39 | 71.5 |
| 5/2/2015 14:01:38 | 40.03 | 35.13 | 1,304 | 0.29 | 0.38 | 71.3 |
| 5/2/2015 14:01:39 | 40.35 | 35.45 | 1,304 | 0.29 | 0.38 | 71.3 |
| 5/2/2015 14:01:39 | 40.68 | 35.78 | 1,307 | 0.29 | 0.38 | 71.4 |
| 5/2/2015 14:01:40 | 41.01 | 36.11 | 1,307 | 0.29 | 0.38 | 71.4 |
| 5/2/2015 14:01:39 | 41.34 | 36.44 | 1,292 | 0.29 | 0.39 | 70.6 |
| 5/2/2015 14:01:40 | 41.67 | 36.77 | 1,292 | 0.29 | 0.39 | 70.6 |
| 5/2/2015 14:01:40 | 41.99 | 37.09 | 1,305 | 0.29 | 0.39 | 71.4 |
| 5/2/2015 14:01:41 | 42.32 | 37.42 | 1,305 | 0.29 | 0.39 | 71.4 |
| 5/2/2015 14:01:41 | 42.65 | 37.75 | 1,310 | 0.29 | 0.38 | 71.6 |
| 5/2/2015 14:01:41 | 42.98 | 38.08 | 1,310 | 0.29 | 0.38 | 71.6 |
| 5/2/2015 14:01:41 | 43.31 | 38.41 | 1,295 | 0.29 | 0.38 | 70.8 |
| 5/2/2015 14:01:42 | 43.64 | 38.74 | 1,295 | 0.29 | 0.38 | 70.8 |
| 5/2/2015 14:01:42 | 43.96 | 39.06 | 1,308 | 0.29 | 0.38 | 71.5 |
| 5/2/2015 14:01:42 | 44.29 | 39.39 | 1,308 | 0.29 | 0.38 | 71.5 |
| 5/2/2015 14:01:42 | 44.62 | 39.72 | 1,324 | 0.29 | 0.39 | 72.4 |
| 5/2/2015 14:01:43 | 44.95 | 40.05 | 1,324 | 0.29 | 0.39 | 72.4 |
| 5/2/2015 14:01:43 | 45.28 | 40.38 | 1,315 | 0.29 | 0.39 | 71.9 |
| 5/2/2015 14:01:43 | 45.60 | 40.70 | 1,310 | 0.29 | 0.40 | 71.6 |
| 5/2/2015 14:01:44 | 45.93 | 41.03 | 1,310 | 0.29 | 0.40 | 71.6 |
| 5/2/2015 14:01:44 | 46.26 | 41.36 | 1,317 | 0.29 | 0.38 | 72.0 |
| 5/2/2015 14:01:44 | 46.59 | 41.69 | 1,317 | 0.29 | 0.38 | 72.0 |
| 5/2/2015 14:01:44 | 46.92 | 42.02 | 1,315 | 0.29 | 0.38 | 71.9 |
| 5/2/2015 14:01:45 | 47.24 | 42.34 | 1,315 | 0.29 | 0.38 | 71.9 |
| 5/2/2015 14:01:45 | 47.57 | 42.67 | 1,307 | 0.29 | 0.40 | 71.5 |
| 5/2/2015 14:01:45 | 47.90 | 43.00 | 1,307 | 0.29 | 0.40 | 71.5 |
| 5/2/2015 14:01:45 | 48.23 | 43.33 | 1,313 | 0.29 | 0.38 | 71.8 |
| 5/2/2015 14:01:46 | 48.56 | 43.66 | 1,313 | 0.29 | 0.38 | 71.8 |
| 5/2/2015 14:01:46 | 48.88 | 43.98 | 1,310 | 0.29 | 0.40 | 71.6 |
| 5/2/2015 14:01:46 | 49.21 | 44.31 | 1,310 | 0.29 | 0.40 | 71.6 |
| 5/2/2015 14:01:46 | 49.54 | 44.64 | 1,315 | 0.26 | 0.43 | 71.9 |
| 5/2/2015 14:01:53 | 49.87 | 44.97 | 24 | 7.92 | 0.49 | 1.3 |
| 5/2/2015 14:01:59 | 50.20 | 45.30 | 58 | 3.29 | 0.47 | 3.2 |
| 5/2/2015 14:02:01 | 50.53 | 45.63 | 118 | 3.99 | 0.48 | 6.4 |
| 5/2/2015 14:02:03 | 50.85 | 45.95 | 147 | 3.90 | 0.45 | 8.0 |
| 5/2/2015 14:02:06 | 51.18 | 46.28 | 0 | 3.79 | 0.46 | 0.0 |
| 5/2/2015 14:02:07 | 51.51 | 46.61 | 83 | 2.71 | 0.44 | 4.5 |
| 5/2/2015 14:02:07 | 51.84 | 46.94 | 198 | 2.11 | 0.43 | 10.8 |
| 5/2/2015 14:02:09 | 52.17 | 47.27 | 376 | 2.11 | 0.46 | 20.6 |
| 5/2/2015 14:02:10 | 52.49 | 47.59 | 411 | 2.37 | 0.47 | 22.5 |
| 5/2/2015 14:02:13 | 52.82 | 47.92 | 94 | 2.14 | 0.47 | 5.1 |
| 5/2/2015 14:02:15 | 53.15 | 48.25 | 139 | 2.39 | 0.46 | 7.6 |
| 5/2/2015 14:02:17 | 53.48 | 48.58 | 160 | 2.02 | 0.42 | 8.8 |
| 5/2/2015 14:02:19 | 53.81 | 48.91 | 91 | 2.67 | 0.48 | 5.0 |
| 5/2/2015 14:02:21 | 54.13 | 49.23 | 106 | 2.69 | 0.45 | 5.8 |
| 5/2/2015 14:02:22 | 54.46 | 49.56 | 200 | 2.00 | 0.43 | 10.9 |
| 5/2/2015 14:02:23 | 54.79 | 49.89 | 328 | 2.08 | 0.46 | 17.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:02:24 | 55.12 | 50.22 | 468 | 1.87 | 0.40 | 25.6 |
| 5/2/2015 | 14:02:25 | 55.45 | 50.55 | 301 | 2.24 | 0.46 | 16.5 |
| 5/2/2015 | 14:02:26 | 55.77 | 50.87 | 278 | 2.27 | 0.46 | 15.2 |
| 5/2/2015 | 14:02:28 | 56.10 | 51.20 | 257 | 2.21 | 0.47 | 14.0 |
| 5/2/2015 | 14:02:30 | 56.43 | 51.53 | 219 | 1.98 | 0.45 | 12.0 |
| 5/2/2015 | 14:02:32 | 56.76 | 51.86 | 171 | 1.85 | 0.39 | 9.3 |
| 5/2/2015 | 14:02:33 | 57.09 | 52.19 | 268 | 2.09 | 0.45 | 14.6 |
| 5/2/2015 | 14:02:34 | 57.41 | 52.51 | 269 | 1.82 | 0.40 | 14.7 |
| 5/2/2015 | 14:02:36 | 57.74 | 52.84 | 167 | 2.18 | 0.47 | 9.1 |
| 5/2/2015 | 14:02:38 | 58.07 | 53.17 | 165 | 2.07 | 0.45 | 9.0 |
| 5/2/2015 | 14:02:38 | 58.40 | 53.50 | 224 | 2.08 | 0.44 | 12.2 |
| 5/2/2015 | 14:02:40 | 58.73 | 53.83 | 250 | 2.12 | 0.45 | 13.7 |
| 5/2/2015 | 14:02:42 | 59.06 | 54.16 | 196 | 2.25 | 0.46 | 10.7 |
| 5/2/2015 | 14:02:45 | 59.38 | 54.48 | 136 | 2.29 | 0.45 | 7.5 |
| 5/2/2015 | 14:02:47 | 59.71 | 54.81 | 185 | 2.06 | 0.47 | 10.1 |
| 5/2/2015 | 14:02:50 | 60.04 | 55.14 | 123 | 2.33 | 0.47 | 6.7 |
| 5/2/2015 | 14:02:51 | 60.30 | 55.40 | 208 | 2.41 | 0.48 | 11.4 |

## P86 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
ReDrilled

**Start Date:**
5/2/2015 14:00:37

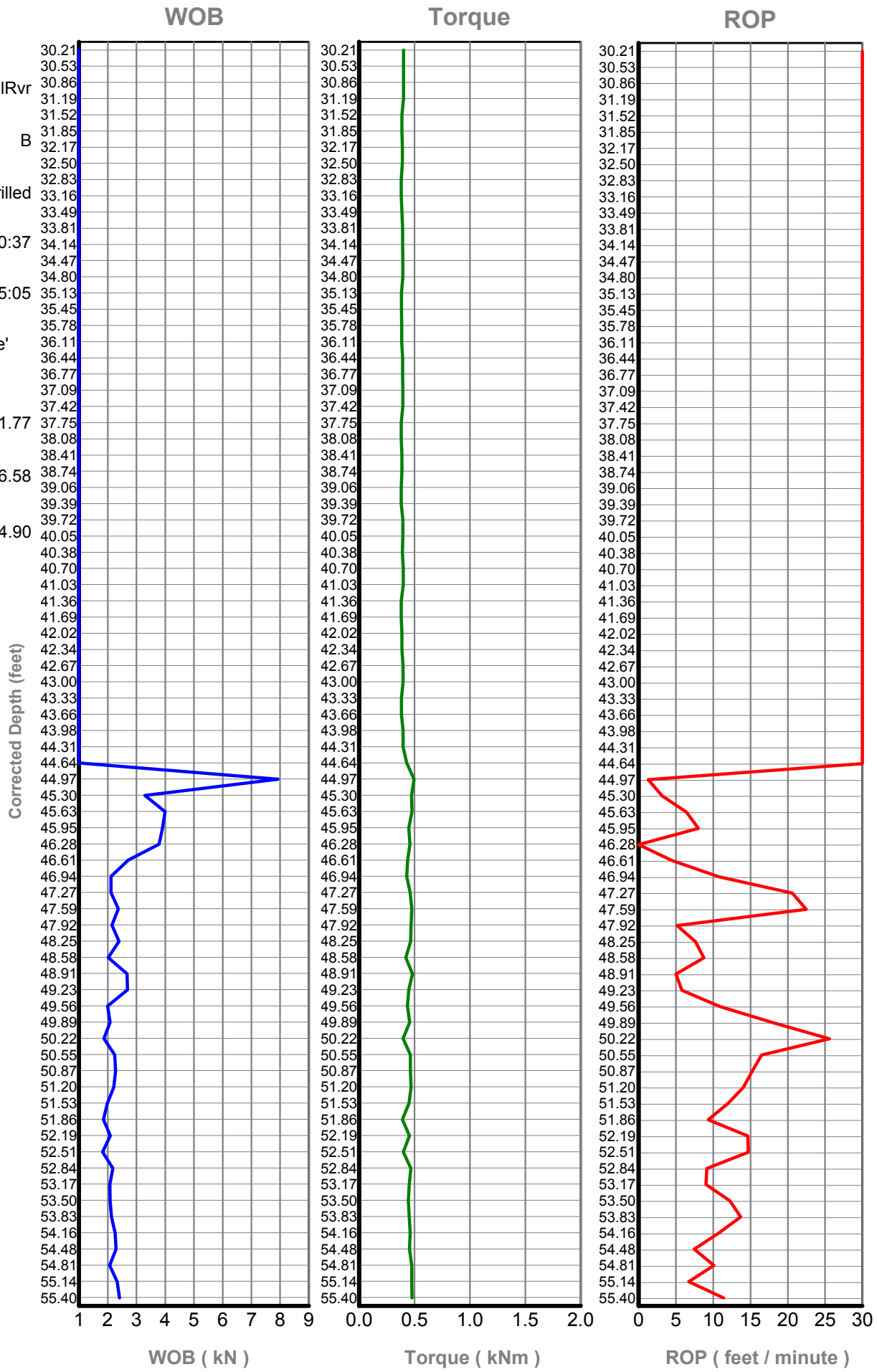
**End Date:**
5/2/2015 14:05:05

**Operator Note:**
'4.9 5.2 b Auto Complete'

**Northing:**
349,831.77

**Easting:**
225,676.58

**Tide (feet):**
4.90



## Hole: P87 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/2/2015 13:58:32 | 35.11 | 30.21 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:33 | 35.43 | 30.53 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:33 | 35.76 | 30.86 | 1,155 | 1.14 | 0.29 | 63.1 |
| 5/2/2015 13:58:33 | 36.09 | 31.19 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 13:58:34 | 36.42 | 31.52 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 13:58:34 | 36.75 | 31.85 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 13:58:34 | 37.07 | 32.17 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 13:58:34 | 37.40 | 32.50 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:35 | 37.73 | 32.83 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 13:58:35 | 38.06 | 33.16 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/2/2015 13:58:35 | 38.39 | 33.49 | 1,146 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 13:58:36 | 38.71 | 33.81 | 1,146 | 1.14 | 0.29 | 62.6 |
| 5/2/2015 13:58:36 | 39.04 | 34.14 | 1,148 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:36 | 39.37 | 34.47 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:37 | 39.70 | 34.80 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:37 | 40.03 | 35.13 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:37 | 40.35 | 35.45 | 1,139 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:37 | 40.68 | 35.78 | 1,146 | 1.14 | 0.29 | 62.7 |
| 5/2/2015 13:58:38 | 41.01 | 36.11 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:38 | 41.34 | 36.44 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:38 | 41.67 | 36.77 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:39 | 41.99 | 37.09 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/2/2015 13:58:39 | 42.32 | 37.42 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 13:58:39 | 42.65 | 37.75 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 13:58:40 | 42.98 | 38.08 | 1,143 | 1.14 | 0.29 | 62.5 |
| 5/2/2015 13:58:40 | 43.31 | 38.41 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:40 | 43.64 | 38.74 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:40 | 43.96 | 39.06 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:41 | 44.29 | 39.39 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:42 | 44.62 | 39.72 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:42 | 44.95 | 40.05 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 13:58:42 | 45.28 | 40.38 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 13:58:42 | 45.60 | 40.70 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 13:58:43 | 45.93 | 41.03 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:43 | 46.26 | 41.36 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:43 | 46.59 | 41.69 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 13:58:44 | 46.92 | 42.02 | 1,130 | 1.14 | 0.29 | 61.8 |
| 5/2/2015 13:58:44 | 47.24 | 42.34 | 1,137 | 1.14 | 0.29 | 62.2 |
| 5/2/2015 13:58:44 | 47.57 | 42.67 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 13:58:45 | 47.90 | 43.00 | 1,133 | 1.14 | 0.29 | 62.0 |
| 5/2/2015 13:58:45 | 48.23 | 43.33 | 1,140 | 1.14 | 0.29 | 62.3 |
| 5/2/2015 13:58:45 | 48.56 | 43.66 | 1,131 | 1.14 | 0.29 | 61.9 |
| 5/2/2015 13:59:02 | 48.88 | 43.98 | 3 | 1.14 | 0.29 | 0.2 |
| 5/2/2015 13:59:02 | 49.21 | 44.31 | 146 | 1.14 | 0.29 | 8.0 |
| 5/2/2015 13:59:03 | 49.54 | 44.64 | 146 | 1.14 | 0.29 | 8.0 |
| 5/2/2015 13:59:03 | 49.87 | 44.97 | 285 | 1.14 | 0.29 | 15.6 |
| 5/2/2015 13:59:04 | 50.20 | 45.30 | 396 | 1.14 | 0.29 | 21.7 |
| 5/2/2015 13:59:05 | 50.53 | 45.63 | 567 | 1.14 | 0.29 | 31.0 |
| 5/2/2015 14:01:01 | 50.85 | 45.95 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:01:02 | 51.18 | 46.28 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 14:01:03 | 51.51 | 46.61 | 112 | 1.14 | 0.29 | 6.1 |
| 5/2/2015 14:01:03 | 51.84 | 46.94 | 112 | 1.14 | 0.29 | 6.1 |
| 5/2/2015 14:01:04 | 52.17 | 47.27 | 265 | 1.14 | 0.29 | 14.5 |
| 5/2/2015 14:01:36 | 52.49 | 47.59 | 24 | 1.14 | 0.29 | 1.3 |
| 5/2/2015 14:01:37 | 52.82 | 47.92 | 184 | 1.14 | 0.29 | 10.1 |
| 5/2/2015 14:01:38 | 53.15 | 48.25 | 184 | 1.14 | 0.29 | 10.1 |
| 5/2/2015 14:01:38 | 53.48 | 48.58 | 289 | 1.14 | 0.29 | 15.8 |
| 5/2/2015 14:01:39 | 53.81 | 48.91 | 422 | 1.14 | 0.29 | 23.1 |
| 5/2/2015 14:01:39 | 54.13 | 49.23 | 554 | 1.14 | 0.29 | 30.3 |
| 5/2/2015 14:01:40 | 54.46 | 49.56 | 640 | 1.14 | 0.29 | 35.0 |
| 5/2/2015 14:01:40 | 54.79 | 49.89 | 640 | 1.14 | 0.29 | 35.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/2/2015 | 14:01:41 | 55.12 | 50.22 | 640 | 1.14 | 0.29 | 35.0 |
| 5/2/2015 | 14:01:41 | 55.45 | 50.55 | 719 | 1.14 | 0.29 | 39.3 |
| 5/2/2015 | 14:01:46 | 55.77 | 50.87 | 80 | 1.14 | 0.29 | 4.3 |
| 5/2/2015 | 14:01:46 | 56.10 | 51.20 | 208 | 1.14 | 0.29 | 11.4 |
| 5/2/2015 | 14:01:47 | 56.43 | 51.53 | 349 | 1.14 | 0.29 | 19.1 |
| 5/2/2015 | 14:01:47 | 56.76 | 51.86 | 496 | 1.14 | 0.29 | 27.1 |
| 5/2/2015 | 14:01:48 | 57.09 | 52.19 | 628 | 1.14 | 0.29 | 34.3 |
| 5/2/2015 | 14:01:48 | 57.41 | 52.51 | 695 | 1.14 | 0.29 | 38.0 |
| 5/2/2015 | 14:01:49 | 57.74 | 52.84 | 715 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 14:01:50 | 58.07 | 53.17 | 715 | 1.14 | 0.29 | 39.1 |
| 5/2/2015 | 14:01:50 | 58.40 | 53.50 | 733 | 1.14 | 0.29 | 40.1 |
| 5/2/2015 | 14:01:51 | 58.73 | 53.83 | 688 | 1.14 | 0.29 | 37.6 |
| 5/2/2015 | 14:01:56 | 59.06 | 54.16 | 0 | 1.14 | 0.29 | 0.0 |
| 5/2/2015 | 14:01:57 | 59.38 | 54.48 | 109 | 1.14 | 0.29 | 6.0 |
| 5/2/2015 | 14:01:59 | 59.71 | 54.81 | 248 | 1.14 | 0.29 | 13.6 |
| 5/2/2015 | 14:02:00 | 60.04 | 55.14 | 222 | 1.14 | 0.29 | 12.2 |
| 5/2/2015 | 14:02:01 | 60.25 | 55.35 | 222 | 1.14 | 0.29 | 12.2 |

## P87 - Summary

**Pattern Number:**
AreaP_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/2/2015 13:57:26

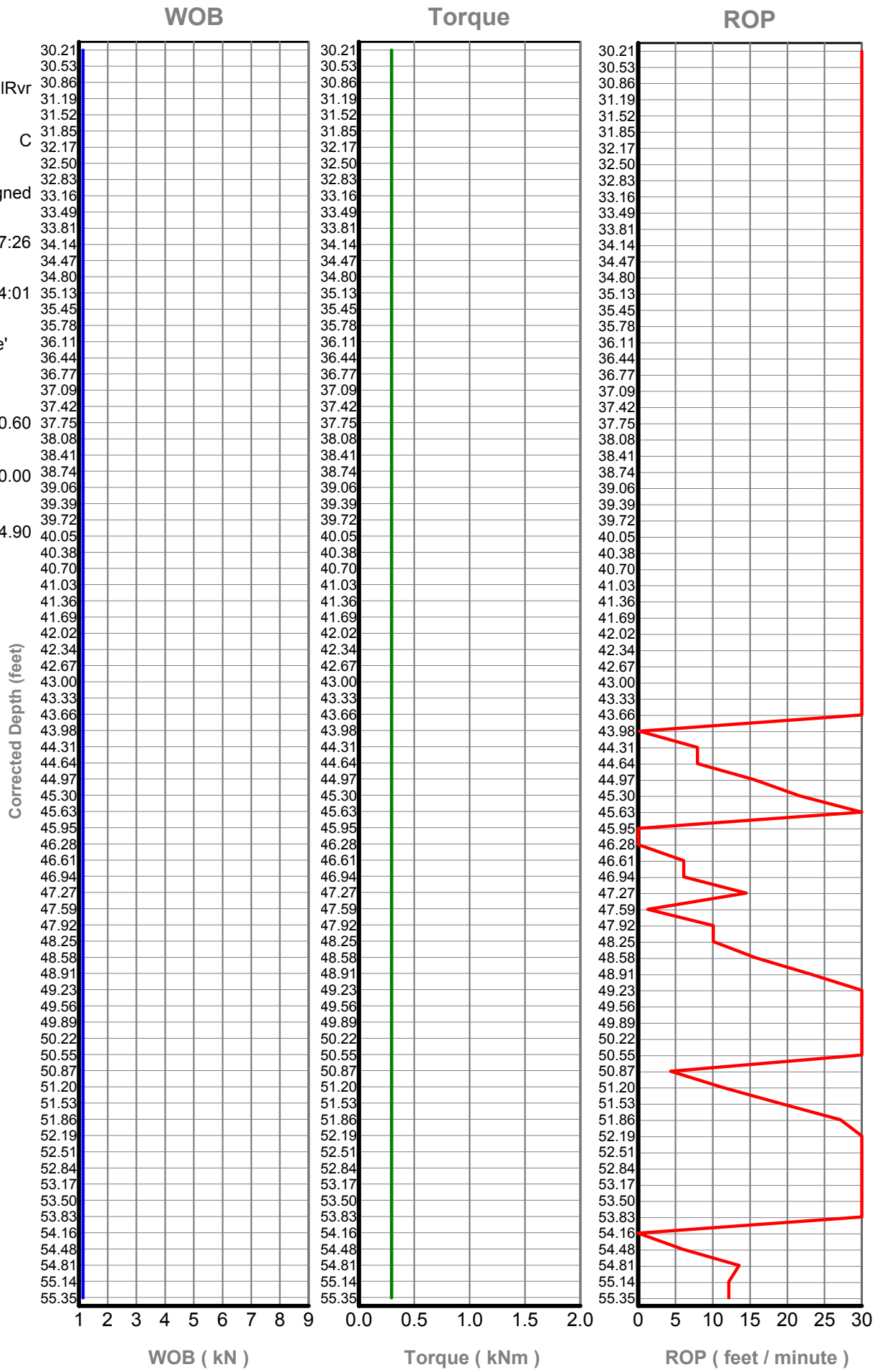
**End Date:**
5/2/2015 14:04:01

**Operator Note:**
'4.9 5.2 c Auto Complete'

**Northing:**
349,870.60

**Easting:**
225,740.00

**Tide (feet):**
4.90



## Hole: P88 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:25:17 | 36.75 | 30.05 | 1,373 | 1.94 | 0.23 | 75.1 |
| 5/4/2015 1:25:17 | 37.07 | 30.37 | 1,373 | 1.94 | 0.23 | 75.1 |
| 5/4/2015 1:25:18 | 37.40 | 30.70 | 1,368 | 1.95 | 0.24 | 74.8 |
| 5/4/2015 1:25:18 | 37.73 | 31.03 | 1,368 | 1.95 | 0.24 | 74.8 |
| 5/4/2015 1:25:18 | 38.06 | 31.36 | 1,376 | 1.98 | 0.23 | 75.2 |
| 5/4/2015 1:25:18 | 38.39 | 31.69 | 1,376 | 1.98 | 0.23 | 75.2 |
| 5/4/2015 1:25:19 | 38.71 | 32.01 | 1,373 | 1.95 | 0.23 | 75.1 |
| 5/4/2015 1:25:19 | 39.04 | 32.34 | 1,373 | 1.95 | 0.23 | 75.1 |
| 5/4/2015 1:25:19 | 39.37 | 32.67 | 1,370 | 1.98 | 0.23 | 74.9 |
| 5/4/2015 1:25:19 | 39.70 | 33.00 | 1,370 | 1.98 | 0.23 | 74.9 |
| 5/4/2015 1:25:20 | 40.03 | 33.33 | 1,363 | 1.97 | 0.23 | 74.5 |
| 5/4/2015 1:25:20 | 40.35 | 33.65 | 1,363 | 1.97 | 0.23 | 74.5 |
| 5/4/2015 1:25:20 | 40.68 | 33.98 | 1,383 | 1.95 | 0.23 | 75.6 |
| 5/4/2015 1:25:21 | 41.01 | 34.31 | 1,383 | 1.95 | 0.23 | 75.6 |
| 5/4/2015 1:25:21 | 41.34 | 34.64 | 1,371 | 1.95 | 0.23 | 75.0 |
| 5/4/2015 1:25:22 | 41.67 | 34.97 | 1,371 | 1.95 | 0.23 | 75.0 |
| 5/4/2015 1:25:22 | 41.99 | 35.29 | 1,368 | 1.95 | 0.23 | 74.8 |
| 5/4/2015 1:25:22 | 42.32 | 35.62 | 1,368 | 1.95 | 0.23 | 74.8 |
| 5/4/2015 1:25:22 | 42.65 | 35.95 | 1,360 | 1.92 | 0.23 | 74.4 |
| 5/4/2015 1:25:23 | 42.98 | 36.28 | 1,360 | 1.92 | 0.23 | 74.4 |
| 5/4/2015 1:25:22 | 43.31 | 36.61 | 1,373 | 1.96 | 0.23 | 75.1 |
| 5/4/2015 1:25:23 | 43.64 | 36.94 | 1,373 | 1.96 | 0.23 | 75.1 |
| 5/4/2015 1:25:23 | 43.96 | 37.26 | 1,353 | 1.93 | 0.23 | 74.0 |
| 5/4/2015 1:25:23 | 44.29 | 37.59 | 1,353 | 1.93 | 0.23 | 74.0 |
| 5/4/2015 1:25:23 | 44.62 | 37.92 | 1,367 | 1.97 | 0.23 | 74.8 |
| 5/4/2015 1:25:24 | 44.95 | 38.25 | 1,367 | 1.97 | 0.23 | 74.8 |
| 5/4/2015 1:25:24 | 45.28 | 38.58 | 1,370 | 1.94 | 0.23 | 74.9 |
| 5/4/2015 1:25:24 | 45.60 | 38.90 | 1,370 | 1.94 | 0.23 | 74.9 |
| 5/4/2015 1:25:24 | 45.93 | 39.23 | 1,384 | 1.93 | 0.23 | 75.7 |
| 5/4/2015 1:25:25 | 46.26 | 39.56 | 1,384 | 1.93 | 0.23 | 75.7 |
| 5/4/2015 1:25:25 | 46.59 | 39.89 | 1,379 | 1.95 | 0.23 | 75.4 |
| 5/4/2015 1:25:25 | 46.92 | 40.22 | 1,379 | 1.95 | 0.23 | 75.4 |
| 5/4/2015 1:25:25 | 47.24 | 40.54 | 1,379 | 1.92 | 0.23 | 75.4 |
| 5/4/2015 1:25:26 | 47.57 | 40.87 | 1,379 | 1.92 | 0.23 | 75.4 |
| 5/4/2015 1:25:26 | 47.90 | 41.20 | 1,376 | 1.93 | 0.23 | 75.2 |
| 5/4/2015 1:25:26 | 48.23 | 41.53 | 1,376 | 1.93 | 0.23 | 75.2 |
| 5/4/2015 1:25:27 | 48.56 | 41.86 | 1,379 | 1.96 | 0.23 | 75.4 |
| 5/4/2015 1:25:27 | 48.88 | 42.18 | 1,379 | 1.96 | 0.23 | 75.4 |
| 5/4/2015 1:25:27 | 49.21 | 42.51 | 1,373 | 1.98 | 0.23 | 75.1 |
| 5/4/2015 1:25:28 | 49.54 | 42.84 | 1,373 | 1.98 | 0.23 | 75.1 |
| 5/4/2015 1:25:28 | 49.87 | 43.17 | 1,370 | 2.52 | 0.23 | 74.9 |
| 5/4/2015 1:25:30 | 50.20 | 43.50 | 233 | 3.26 | 0.23 | 12.7 |
| 5/4/2015 1:25:46 | 50.53 | 43.83 | 0 | 2.08 | 1.41 | 0.0 |
| 5/4/2015 1:25:47 | 50.85 | 44.15 | 134 | 2.07 | 1.17 | 7.3 |
| 5/4/2015 1:25:47 | 51.18 | 44.48 | 298 | 1.53 | 0.91 | 16.3 |
| 5/4/2015 1:25:49 | 51.51 | 44.81 | 541 | 1.75 | 0.94 | 29.6 |
| 5/4/2015 1:25:49 | 51.84 | 45.14 | 519 | 1.99 | 1.08 | 28.4 |
| 5/4/2015 1:25:50 | 52.17 | 45.47 | 368 | 1.85 | 1.02 | 20.1 |
| 5/4/2015 1:25:53 | 52.49 | 45.79 | 168 | 2.55 | 1.59 | 9.2 |
| 5/4/2015 1:25:58 | 52.82 | 46.12 | 73 | 2.35 | 1.40 | 4.0 |
| 5/4/2015 1:26:00 | 53.15 | 46.45 | 169 | 2.24 | 1.21 | 9.3 |
| 5/4/2015 1:26:01 | 53.48 | 46.78 | 237 | 2.03 | 1.50 | 13.0 |
| 5/4/2015 1:26:05 | 53.81 | 47.11 | 105 | 2.56 | 1.69 | 5.8 |
| 5/4/2015 1:26:40 | 54.13 | 47.43 | 67 | 2.28 | 1.16 | 3.7 |
| 5/4/2015 1:26:44 | 54.46 | 47.76 | 72 | 2.12 | 1.29 | 3.9 |
| 5/4/2015 1:26:48 | 54.79 | 48.09 | 104 | 2.25 | 1.17 | 5.7 |
| 5/4/2015 1:26:52 | 55.12 | 48.42 | 85 | 2.38 | 1.44 | 4.7 |
| 5/4/2015 1:26:57 | 55.45 | 48.75 | 62 | 2.36 | 1.56 | 3.4 |
| 5/4/2015 1:27:02 | 55.77 | 49.07 | 61 | 2.35 | 1.23 | 3.3 |
| 5/4/2015 1:27:07 | 56.10 | 49.40 | 87 | 2.29 | 1.30 | 4.7 |
| 5/4/2015 1:27:10 | 56.43 | 49.73 | 101 | 2.26 | 1.06 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:27:15 | 56.76 | 50.06 | 84 | 2.30 | 1.12 | 4.6 |
| 5/4/2015 | 1:27:19 | 57.09 | 50.39 | 72 | 2.27 | 1.22 | 4.0 |
| 5/4/2015 | 1:27:24 | 57.41 | 50.71 | 68 | 2.31 | 1.09 | 3.7 |
| 5/4/2015 | 1:27:31 | 57.74 | 51.04 | 41 | 2.14 | 1.06 | 2.2 |
| 5/4/2015 | 1:27:36 | 58.07 | 51.37 | 71 | 2.07 | 1.10 | 3.9 |
| 5/4/2015 | 1:27:41 | 58.40 | 51.70 | 82 | 2.14 | 0.98 | 4.5 |
| 5/4/2015 | 1:27:46 | 58.73 | 52.03 | 69 | 2.12 | 0.95 | 3.8 |
| 5/4/2015 | 1:27:51 | 59.06 | 52.36 | 83 | 2.16 | 1.05 | 4.5 |
| 5/4/2015 | 1:27:57 | 59.38 | 52.68 | 64 | 2.14 | 1.00 | 3.5 |
| 5/4/2015 | 1:28:04 | 59.71 | 53.01 | 49 | 2.17 | 1.05 | 2.7 |
| 5/4/2015 | 1:28:10 | 60.04 | 53.34 | 75 | 2.09 | 1.19 | 4.1 |
| 5/4/2015 | 1:28:13 | 60.37 | 53.67 | 87 | 2.17 | 1.09 | 4.8 |
| 5/4/2015 | 1:28:17 | 60.70 | 54.00 | 84 | 2.15 | 0.95 | 4.6 |
| 5/4/2015 | 1:28:23 | 61.02 | 54.32 | 58 | 2.19 | 1.15 | 3.1 |
| 5/4/2015 | 1:28:29 | 61.35 | 54.65 | 76 | 2.10 | 1.01 | 4.2 |
| 5/4/2015 | 1:28:33 | 61.68 | 54.98 | 84 | 2.28 | 1.45 | 4.6 |
| 5/4/2015 | 1:28:33 | 61.71 | 55.01 | 84 | 2.28 | 1.45 | 4.6 |

## P88 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:13:43

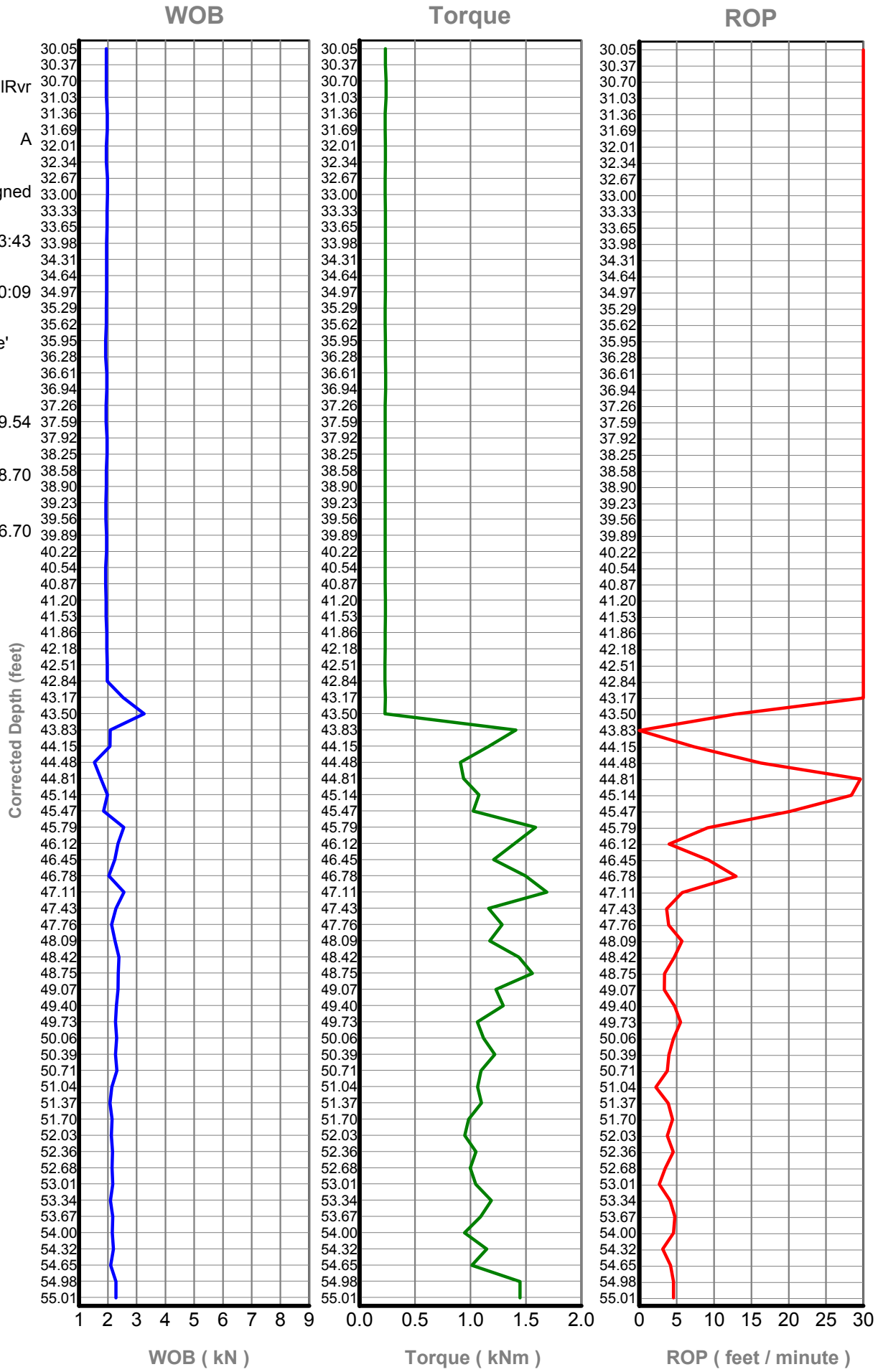
**End Date:**
5/4/2015 1:30:09

**Operator Note:**
'6.7 6.7 a Auto Complete'

**Northing:**
348,659.54

**Easting:**
223,938.70

**Tide (feet):**
6.70



## Hole: P89 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:25:52 | 36.75 | 30.15 | 1,250 | 0.31 | 0.37 | 68.3 |
| 5/4/2015 1:25:53 | 37.07 | 30.47 | 1,250 | 0.31 | 0.37 | 68.3 |
| 5/4/2015 1:25:53 | 37.40 | 30.80 | 1,218 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 1:25:53 | 37.73 | 31.13 | 1,218 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 1:25:53 | 38.06 | 31.46 | 1,253 | 0.29 | 0.38 | 68.5 |
| 5/4/2015 1:25:54 | 38.39 | 31.79 | 1,253 | 0.29 | 0.38 | 68.5 |
| 5/4/2015 1:25:54 | 38.71 | 32.11 | 1,255 | 0.29 | 0.38 | 68.6 |
| 5/4/2015 1:25:55 | 39.04 | 32.44 | 1,255 | 0.29 | 0.38 | 68.6 |
| 5/4/2015 1:25:55 | 39.37 | 32.77 | 1,248 | 0.30 | 0.38 | 68.2 |
| 5/4/2015 1:25:55 | 39.70 | 33.10 | 1,251 | 0.29 | 0.36 | 68.4 |
| 5/4/2015 1:25:56 | 40.03 | 33.43 | 1,251 | 0.29 | 0.36 | 68.4 |
| 5/4/2015 1:25:56 | 40.35 | 33.75 | 1,264 | 0.29 | 0.38 | 69.1 |
| 5/4/2015 1:25:56 | 40.68 | 34.08 | 1,264 | 0.29 | 0.38 | 69.1 |
| 5/4/2015 1:25:56 | 41.01 | 34.41 | 1,259 | 0.30 | 0.38 | 68.9 |
| 5/4/2015 1:25:57 | 41.34 | 34.74 | 1,259 | 0.30 | 0.38 | 68.9 |
| 5/4/2015 1:25:57 | 41.67 | 35.07 | 1,212 | 0.29 | 0.38 | 66.3 |
| 5/4/2015 1:25:57 | 41.99 | 35.39 | 1,212 | 0.29 | 0.38 | 66.3 |
| 5/4/2015 1:25:57 | 42.32 | 35.72 | 1,212 | 0.30 | 0.36 | 66.3 |
| 5/4/2015 1:25:58 | 42.65 | 36.05 | 1,212 | 0.30 | 0.36 | 66.3 |
| 5/4/2015 1:25:58 | 42.98 | 36.38 | 1,236 | 0.29 | 0.37 | 67.6 |
| 5/4/2015 1:25:58 | 43.31 | 36.71 | 1,231 | 0.29 | 0.37 | 67.3 |
| 5/4/2015 1:25:59 | 43.64 | 37.04 | 1,231 | 0.29 | 0.37 | 67.3 |
| 5/4/2015 1:25:59 | 43.96 | 37.36 | 1,239 | 0.29 | 0.37 | 67.7 |
| 5/4/2015 1:25:59 | 44.29 | 37.69 | 1,239 | 0.29 | 0.37 | 67.7 |
| 5/4/2015 1:25:59 | 44.62 | 38.02 | 1,228 | 0.29 | 0.37 | 67.1 |
| 5/4/2015 1:26:00 | 44.95 | 38.35 | 1,228 | 0.29 | 0.37 | 67.1 |
| 5/4/2015 1:26:00 | 45.28 | 38.68 | 1,259 | 0.30 | 0.38 | 68.9 |
| 5/4/2015 1:26:00 | 45.60 | 39.00 | 1,259 | 0.30 | 0.38 | 68.9 |
| 5/4/2015 1:26:00 | 45.93 | 39.33 | 1,243 | 0.29 | 0.37 | 68.0 |
| 5/4/2015 1:26:01 | 46.26 | 39.66 | 1,240 | 0.29 | 0.37 | 67.8 |
| 5/4/2015 1:26:01 | 46.59 | 39.99 | 1,240 | 0.29 | 0.37 | 67.8 |
| 5/4/2015 1:26:01 | 46.92 | 40.32 | 1,237 | 0.29 | 0.38 | 67.7 |
| 5/4/2015 1:26:02 | 47.24 | 40.64 | 1,237 | 0.29 | 0.38 | 67.7 |
| 5/4/2015 1:26:02 | 47.57 | 40.97 | 1,224 | 0.30 | 0.38 | 66.9 |
| 5/4/2015 1:26:02 | 47.90 | 41.30 | 1,224 | 0.30 | 0.38 | 66.9 |
| 5/4/2015 1:26:02 | 48.23 | 41.63 | 1,248 | 0.29 | 0.38 | 68.2 |
| 5/4/2015 1:26:03 | 48.56 | 41.96 | 1,248 | 0.29 | 0.38 | 68.2 |
| 5/4/2015 1:26:03 | 48.88 | 42.28 | 1,245 | 0.30 | 0.37 | 68.1 |
| 5/4/2015 1:26:03 | 49.21 | 42.61 | 1,242 | 0.29 | 0.37 | 67.9 |
| 5/4/2015 1:26:04 | 49.54 | 42.94 | 1,242 | 0.29 | 0.37 | 67.9 |
| 5/4/2015 1:26:04 | 49.87 | 43.27 | 1,237 | 0.30 | 0.36 | 67.7 |
| 5/4/2015 1:26:05 | 50.20 | 43.60 | 1,237 | 0.30 | 0.36 | 67.7 |
| 5/4/2015 1:26:05 | 50.53 | 43.93 | 1,259 | 0.29 | 0.38 | 68.8 |
| 5/4/2015 1:26:05 | 50.85 | 44.25 | 1,259 | 0.29 | 0.38 | 68.8 |
| 5/4/2015 1:26:05 | 51.18 | 44.58 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/4/2015 1:26:06 | 51.51 | 44.91 | 1,234 | 0.29 | 0.37 | 67.5 |
| 5/4/2015 1:26:06 | 51.84 | 45.24 | 1,231 | 0.29 | 0.37 | 67.3 |
| 5/4/2015 1:26:06 | 52.17 | 45.57 | 1,234 | 0.28 | 0.39 | 67.5 |
| 5/4/2015 1:26:07 | 52.49 | 45.89 | 1,234 | 0.28 | 0.39 | 67.5 |
| 5/4/2015 1:26:07 | 52.82 | 46.22 | 1,215 | 0.26 | 0.46 | 66.5 |
| 5/4/2015 1:26:15 | 53.15 | 46.55 | 0 | 3.23 | 0.44 | 0.0 |
| 5/4/2015 1:26:16 | 53.48 | 46.88 | 102 | 2.60 | 0.44 | 5.6 |
| 5/4/2015 1:26:18 | 53.81 | 47.21 | 203 | 3.12 | 0.45 | 11.1 |
| 5/4/2015 1:26:21 | 54.13 | 47.53 | 136 | 3.84 | 0.46 | 7.4 |
| 5/4/2015 1:26:23 | 54.46 | 47.86 | 127 | 3.84 | 0.45 | 7.0 |
| 5/4/2015 1:27:39 | 54.79 | 48.19 | 12 | 3.20 | 0.44 | 0.6 |
| 5/4/2015 1:27:41 | 55.12 | 48.52 | 161 | 3.32 | 0.44 | 8.8 |
| 5/4/2015 1:27:45 | 55.45 | 48.85 | 0 | 3.06 | 0.43 | 0.0 |
| 5/4/2015 1:27:53 | 55.77 | 49.17 | 0 | 3.33 | 0.44 | 0.0 |
| 5/4/2015 1:28:20 | 56.10 | 49.50 | 41 | 3.62 | 0.45 | 2.2 |
| 5/4/2015 1:28:25 | 56.43 | 49.83 | 23 | 4.15 | 0.45 | 1.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 1:28:37 | 56.76 | 50.16 | 23 | 3.40 | 0.45 | 1.3 |
| 5/4/2015 | 1:28:47 | 57.09 | 50.49 | 32 | 3.18 | 0.46 | 1.7 |
| 5/4/2015 | 1:29:04 | 57.41 | 50.81 | 17 | 3.40 | 0.46 | 0.9 |
| 5/4/2015 | 1:29:21 | 57.74 | 51.14 | 40 | 3.21 | 0.47 | 2.2 |
| 5/4/2015 | 1:29:29 | 58.07 | 51.47 | 68 | 3.43 | 0.45 | 3.7 |
| 5/4/2015 | 1:29:52 | 58.40 | 51.80 | 55 | 2.99 | 0.45 | 3.0 |
| 5/4/2015 | 1:30:01 | 58.73 | 52.13 | 69 | 3.05 | 0.46 | 3.8 |
| 5/4/2015 | 1:30:08 | 59.06 | 52.46 | 61 | 2.95 | 0.46 | 3.3 |
| 5/4/2015 | 1:30:14 | 59.38 | 52.78 | 60 | 3.12 | 0.46 | 3.3 |
| 5/4/2015 | 1:30:19 | 59.71 | 53.11 | 66 | 3.34 | 0.46 | 3.6 |
| 5/4/2015 | 1:30:28 | 60.04 | 53.44 | 78 | 2.92 | 0.45 | 4.3 |
| 5/4/2015 | 1:30:33 | 60.37 | 53.77 | 61 | 3.01 | 0.46 | 3.4 |
| 5/4/2015 | 1:30:39 | 60.70 | 54.10 | 69 | 3.05 | 0.46 | 3.8 |
| 5/4/2015 | 1:30:46 | 61.02 | 54.42 | 56 | 3.63 | 0.46 | 3.0 |
| 5/4/2015 | 1:30:50 | 61.35 | 54.75 | 84 | 4.17 | 0.46 | 4.6 |
| 5/4/2015 | 1:30:54 | 61.68 | 55.08 | 93 | 3.66 | 0.46 | 5.1 |

## P89 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 1:22:51

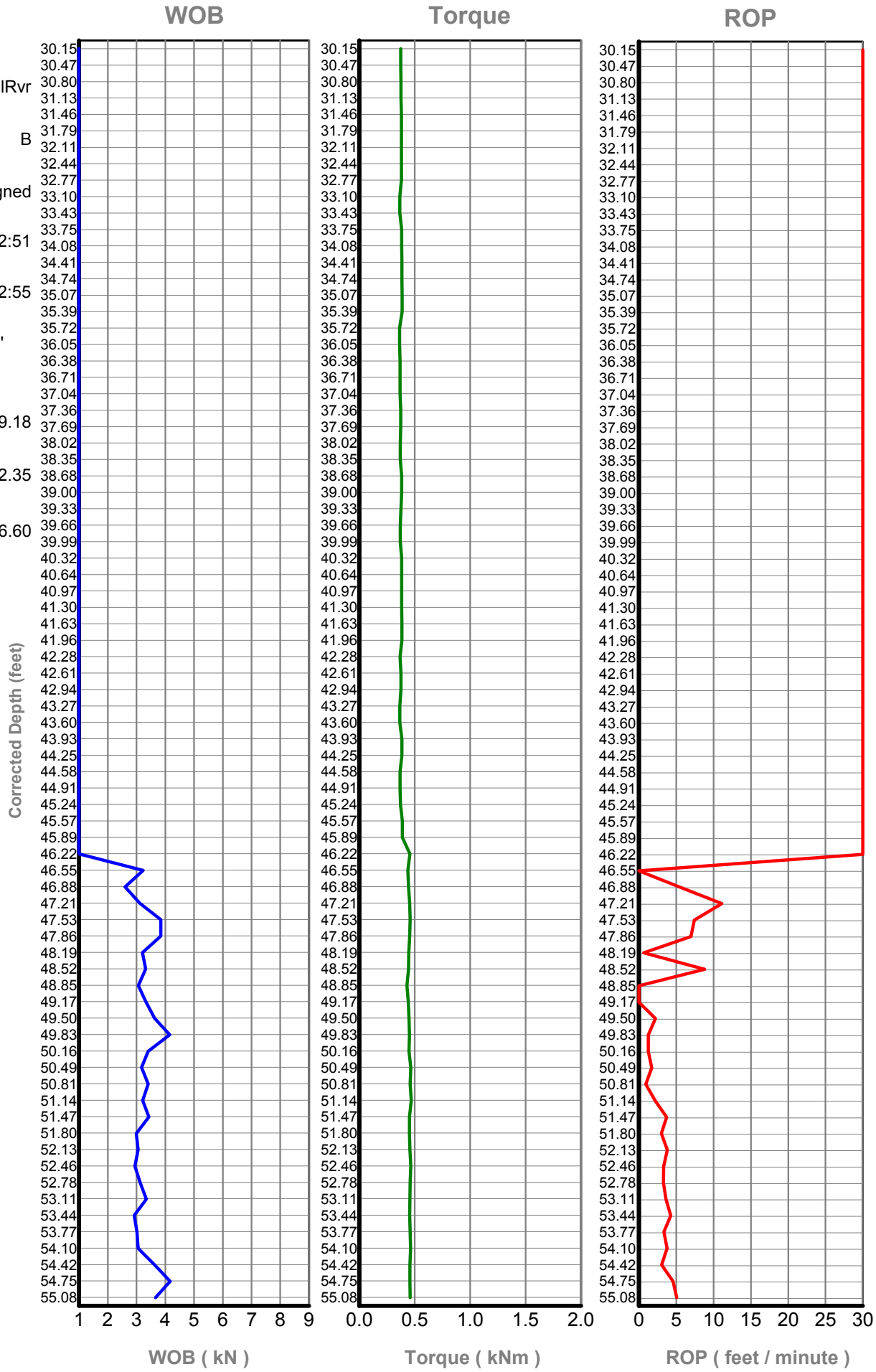
**End Date:**
5/4/2015 1:32:55

**Operator Note:**
'6.6 6.7b Auto Complete'

**Northing:**
348,699.18

**Easting:**
224,002.35

**Tide (feet):**
6.60



## Hole: P9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 4:35:34 | 33.14 | 30.04 | 1,078 | 1.14 | 0.29 | 58.9 |
| 5/3/2015 4:35:35 | 33.46 | 30.36 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:35 | 33.79 | 30.69 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:35 | 34.12 | 31.02 | 1,058 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:36 | 34.45 | 31.35 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 4:35:36 | 34.78 | 31.68 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/3/2015 4:35:36 | 35.11 | 32.01 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:35:37 | 35.43 | 32.33 | 1,062 | 1.14 | 0.29 | 58.1 |
| 5/3/2015 4:35:37 | 35.76 | 32.66 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/3/2015 4:35:37 | 36.09 | 32.99 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:38 | 36.42 | 33.32 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:38 | 36.75 | 33.65 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/3/2015 4:35:38 | 37.07 | 33.97 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 4:35:39 | 37.40 | 34.30 | 1,068 | 1.14 | 0.29 | 58.4 |
| 5/3/2015 4:35:39 | 37.73 | 34.63 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/3/2015 4:35:39 | 38.06 | 34.96 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 4:35:40 | 38.39 | 35.29 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/3/2015 4:35:40 | 38.71 | 35.61 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/3/2015 4:35:40 | 39.04 | 35.94 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 4:35:41 | 39.37 | 36.27 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/3/2015 4:35:41 | 39.70 | 36.60 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:35:41 | 40.03 | 36.93 | 1,060 | 1.14 | 0.29 | 57.9 |
| 5/3/2015 4:36:00 | 40.35 | 37.25 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 4:36:01 | 40.68 | 37.58 | 153 | 1.14 | 0.29 | 8.4 |
| 5/3/2015 4:36:02 | 41.01 | 37.91 | 298 | 1.14 | 0.29 | 16.3 |
| 5/3/2015 4:36:03 | 41.34 | 38.24 | 314 | 1.14 | 0.29 | 17.2 |
| 5/3/2015 4:36:12 | 41.67 | 38.57 | 35 | 1.14 | 0.29 | 1.9 |
| 5/3/2015 4:36:13 | 41.99 | 38.89 | 131 | 1.14 | 0.29 | 7.2 |
| 5/3/2015 4:36:14 | 42.32 | 39.22 | 210 | 1.14 | 0.29 | 11.5 |
| 5/3/2015 4:36:23 | 42.65 | 39.55 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 4:36:25 | 42.98 | 39.88 | 130 | 1.14 | 0.29 | 7.1 |
| 5/3/2015 4:36:34 | 43.31 | 40.21 | 48 | 1.14 | 0.29 | 2.6 |
| 5/3/2015 4:36:35 | 43.64 | 40.54 | 65 | 1.14 | 0.29 | 3.6 |
| 5/3/2015 4:36:36 | 43.96 | 40.86 | 164 | 1.14 | 0.29 | 9.0 |
| 5/3/2015 4:36:38 | 44.29 | 41.19 | 256 | 1.14 | 0.29 | 14.0 |
| 5/3/2015 4:37:27 | 44.62 | 41.52 | 21 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 4:37:28 | 44.95 | 41.85 | 147 | 1.14 | 0.29 | 8.1 |
| 5/3/2015 4:37:30 | 45.28 | 42.18 | 283 | 1.14 | 0.29 | 15.5 |
| 5/3/2015 4:37:30 | 45.60 | 42.50 | 320 | 1.14 | 0.29 | 17.5 |
| 5/3/2015 4:41:38 | 45.93 | 42.83 | 44 | 1.14 | 0.29 | 2.4 |
| 5/3/2015 4:41:41 | 46.26 | 43.16 | 134 | 1.14 | 0.29 | 7.3 |
| 5/3/2015 4:41:53 | 46.59 | 43.49 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:41:55 | 46.92 | 43.82 | 137 | 1.14 | 0.29 | 7.5 |
| 5/3/2015 4:41:57 | 47.24 | 44.14 | 201 | 1.14 | 0.29 | 11.0 |
| 5/3/2015 4:41:58 | 47.57 | 44.47 | 240 | 1.14 | 0.29 | 13.1 |
| 5/3/2015 4:42:00 | 47.90 | 44.80 | 244 | 1.14 | 0.29 | 13.3 |
| 5/3/2015 4:43:25 | 48.23 | 45.13 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 4:43:28 | 48.56 | 45.46 | 122 | 1.14 | 0.29 | 6.7 |
| 5/3/2015 4:44:04 | 48.88 | 45.78 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 4:44:09 | 49.21 | 46.11 | 70 | 1.14 | 0.29 | 3.8 |
| 5/3/2015 4:44:12 | 49.54 | 46.44 | 108 | 1.14 | 0.29 | 5.9 |
| 5/3/2015 4:44:18 | 49.87 | 46.77 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:45:28 | 50.20 | 47.10 | 36 | 1.14 | 0.29 | 2.0 |
| 5/3/2015 4:45:33 | 50.53 | 47.43 | 50 | 1.14 | 0.29 | 2.7 |
| 5/3/2015 4:46:11 | 50.85 | 47.75 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 4:46:19 | 51.18 | 48.08 | 38 | 1.14 | 0.29 | 2.1 |
| 5/3/2015 4:46:28 | 51.51 | 48.41 | 32 | 1.14 | 0.29 | 1.7 |
| 5/3/2015 4:46:49 | 51.84 | 48.74 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 4:47:14 | 52.02 | 48.92 | 9 | 1.14 | 0.29 | 0.5 |

## P9 - Summary

**Pattern Number:**
AreaP_Lane5-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 4:34:33

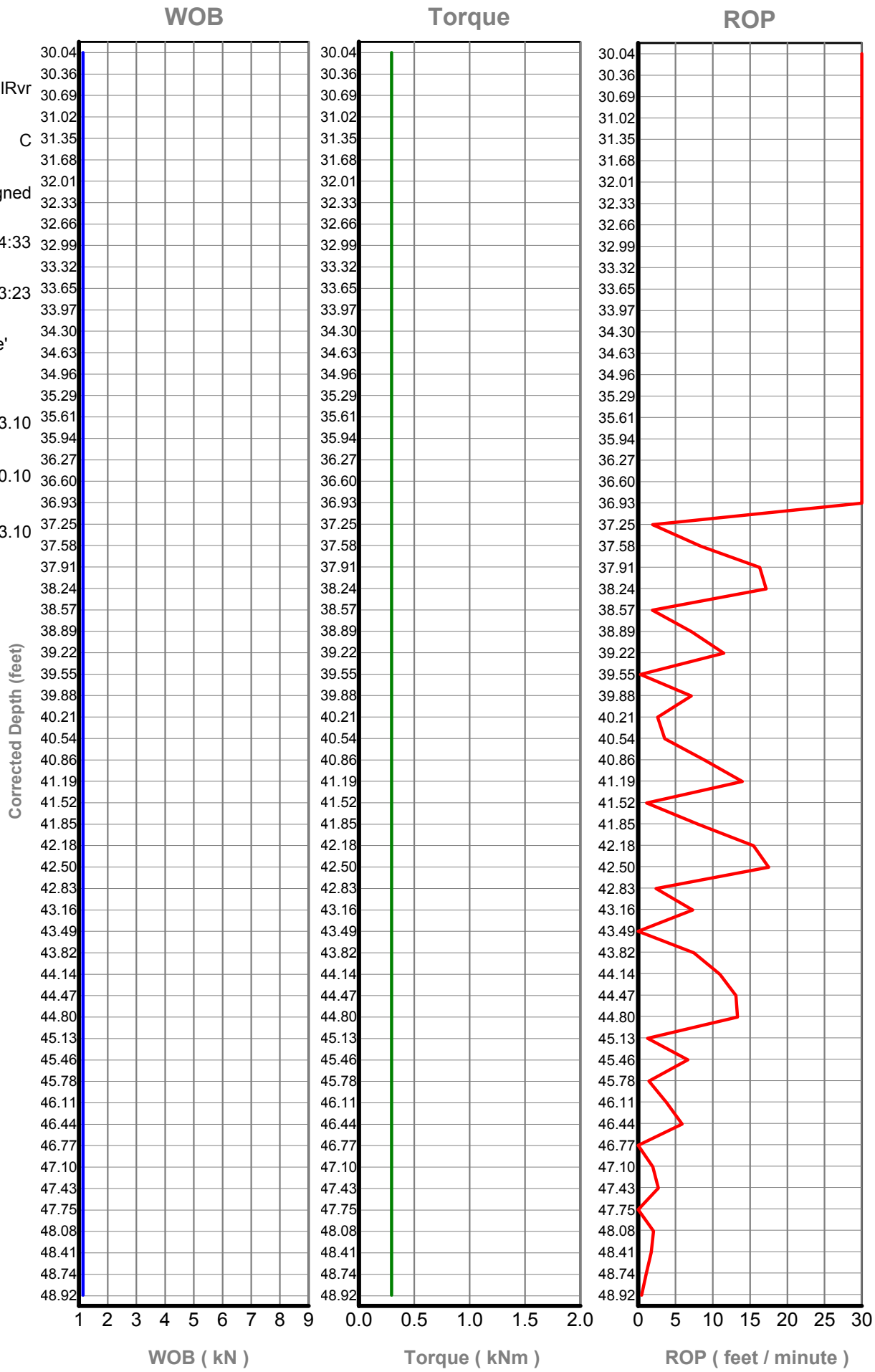
**End Date:**
5/3/2015 5:13:23

**Operator Note:**
'3.1 3.3 c Auto Complete'

**Northing:**
349,583.10

**Easting:**
224,850.10

**Tide (feet):**
3.10



## Hole: P90 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 1:24:49 | 36.75 | 30.15 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 1:24:50 | 37.07 | 30.47 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:50 | 37.40 | 30.80 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:50 | 37.73 | 31.13 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:51 | 38.06 | 31.46 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/4/2015 1:24:51 | 38.39 | 31.79 | 1,061 | 1.14 | 0.29 | 58.0 |
| 5/4/2015 1:24:51 | 38.71 | 32.11 | 1,065 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:52 | 39.04 | 32.44 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:53 | 39.37 | 32.77 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:52 | 39.70 | 33.10 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 1:24:53 | 40.03 | 33.43 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 1:24:53 | 40.35 | 33.75 | 1,058 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 1:24:54 | 40.68 | 34.08 | 1,057 | 1.14 | 0.29 | 57.8 |
| 5/4/2015 1:24:54 | 41.01 | 34.41 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 1:24:55 | 41.34 | 34.74 | 1,066 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 1:24:55 | 41.67 | 35.07 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/4/2015 1:24:55 | 41.99 | 35.39 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/4/2015 1:24:55 | 42.32 | 35.72 | 1,063 | 1.14 | 0.29 | 58.1 |
| 5/4/2015 1:24:56 | 42.65 | 36.05 | 1,063 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:56 | 42.98 | 36.38 | 1,063 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 1:24:56 | 43.31 | 36.71 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 1:24:57 | 43.64 | 37.04 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:57 | 43.96 | 37.36 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:57 | 44.29 | 37.69 | 1,052 | 1.14 | 0.29 | 57.5 |
| 5/4/2015 1:24:58 | 44.62 | 38.02 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:58 | 44.95 | 38.35 | 1,056 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:58 | 45.28 | 38.68 | 1,055 | 1.14 | 0.29 | 57.7 |
| 5/4/2015 1:24:59 | 45.60 | 39.00 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/4/2015 1:24:59 | 45.93 | 39.33 | 1,047 | 1.14 | 0.29 | 57.2 |
| 5/4/2015 1:24:59 | 46.26 | 39.66 | 1,056 | 1.14 | 0.29 | 57.8 |
| 5/4/2015 1:25:00 | 46.59 | 39.99 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/4/2015 1:25:00 | 46.92 | 40.32 | 1,053 | 1.14 | 0.29 | 57.6 |
| 5/4/2015 1:25:00 | 47.24 | 40.64 | 1,054 | 1.14 | 0.29 | 57.6 |
| 5/4/2015 1:25:01 | 47.57 | 40.97 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 1:25:01 | 47.90 | 41.30 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 1:25:01 | 48.23 | 41.63 | 1,059 | 1.14 | 0.29 | 57.9 |
| 5/4/2015 1:25:02 | 48.56 | 41.96 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 1:25:02 | 48.88 | 42.28 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 1:25:02 | 49.21 | 42.61 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 1:25:03 | 49.54 | 42.94 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 1:25:03 | 49.87 | 43.27 | 1,047 | 1.14 | 0.29 | 57.3 |
| 5/4/2015 1:25:14 | 50.20 | 43.60 | 25 | 1.14 | 0.29 | 1.4 |
| 5/4/2015 1:25:41 | 50.53 | 43.93 | 12 | 1.14 | 0.29 | 0.6 |
| 5/4/2015 1:26:08 | 50.85 | 44.25 | 15 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 1:26:29 | 51.18 | 44.58 | 20 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 1:26:41 | 51.39 | 44.79 | 22 | 1.14 | 0.29 | 1.2 |

## P90 - Summary

**Pattern Number:**
AreaP_Lane10-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/4/2015 1:23:53

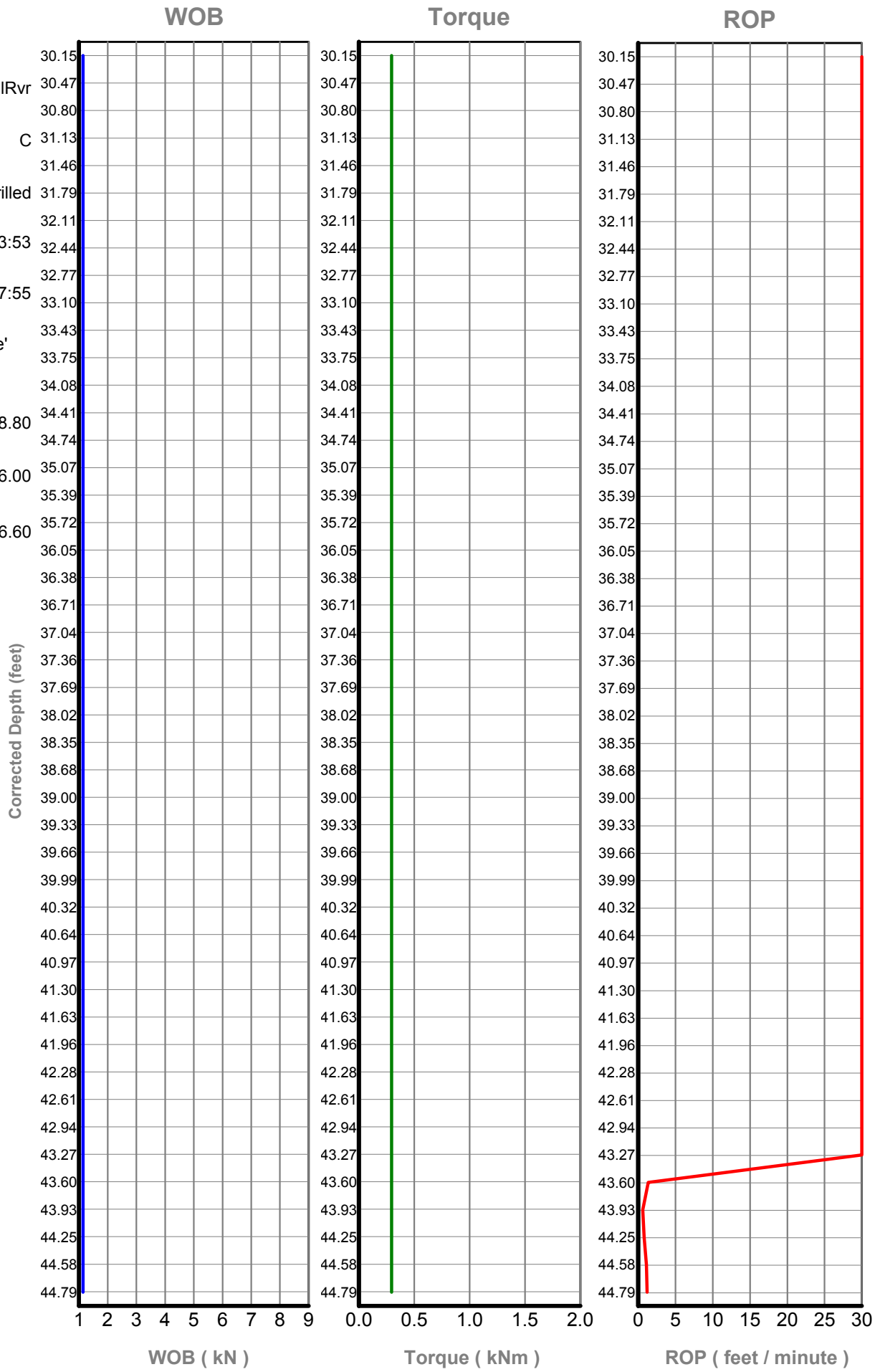
**End Date:**
5/4/2015 1:27:55

**Operator Note:**
'6.6 6.7 c Auto Complete'

**Northing:**
348,738.80

**Easting:**
224,066.00

**Tide (feet):**
6.60



## Hole: P91 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:25:48 | 32.81 | 30.11 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 21:25:49 | 33.14 | 30.44 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 21:25:49 | 33.46 | 30.76 | 1,195 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 21:25:49 | 33.79 | 31.09 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 21:25:50 | 34.12 | 31.42 | 1,181 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 21:25:50 | 34.45 | 31.75 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:50 | 34.78 | 32.08 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:50 | 35.11 | 32.41 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:51 | 35.43 | 32.73 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:51 | 35.76 | 33.06 | 1,182 | 0.54 | 0.17 | 64.6 |
| 5/3/2015 21:25:51 | 36.09 | 33.39 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 21:25:52 | 36.42 | 33.72 | 1,194 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 21:25:52 | 36.75 | 34.05 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 21:25:53 | 37.07 | 34.37 | 1,201 | 0.54 | 0.17 | 65.7 |
| 5/3/2015 21:25:53 | 37.40 | 34.70 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:53 | 37.73 | 35.03 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:54 | 38.06 | 35.36 | 1,196 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:54 | 38.39 | 35.69 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 21:25:54 | 38.71 | 36.01 | 1,203 | 0.54 | 0.17 | 65.8 |
| 5/3/2015 21:25:54 | 39.04 | 36.34 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:55 | 39.37 | 36.67 | 1,195 | 0.54 | 0.17 | 65.4 |
| 5/3/2015 21:25:55 | 39.70 | 37.00 | 1,195 | 0.54 | 0.17 | 65.3 |
| 5/3/2015 21:25:55 | 40.03 | 37.33 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 21:25:56 | 40.35 | 37.65 | 1,192 | 0.54 | 0.17 | 65.2 |
| 5/3/2015 21:25:56 | 40.68 | 37.98 | 1,182 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:25:56 | 41.01 | 38.31 | 1,182 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:25:56 | 41.34 | 38.64 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 21:25:57 | 41.67 | 38.97 | 1,179 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 21:25:57 | 41.99 | 39.29 | 1,179 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 21:25:57 | 42.32 | 39.62 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 21:25:58 | 42.65 | 39.95 | 1,187 | 0.54 | 0.17 | 64.9 |
| 5/3/2015 21:25:58 | 42.98 | 40.28 | 1,183 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:25:58 | 43.31 | 40.61 | 1,183 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:25:58 | 43.64 | 40.94 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:25:59 | 43.96 | 41.26 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 21:25:59 | 44.29 | 41.59 | 1,180 | 0.54 | 0.17 | 64.5 |
| 5/3/2015 21:25:59 | 44.62 | 41.92 | 1,177 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 21:26:00 | 44.95 | 42.25 | 1,177 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 21:26:00 | 45.28 | 42.58 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 21:26:00 | 45.60 | 42.90 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 21:26:01 | 45.93 | 43.23 | 1,171 | 0.54 | 0.17 | 64.0 |
| 5/3/2015 21:26:01 | 46.26 | 43.56 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 21:26:01 | 46.59 | 43.89 | 1,178 | 0.54 | 0.17 | 64.4 |
| 5/3/2015 21:26:01 | 46.92 | 44.22 | 1,177 | 0.54 | 0.17 | 64.3 |
| 5/3/2015 21:26:02 | 47.24 | 44.54 | 1,177 | 0.54 | 0.17 | 64.3 |
| 5/3/2015 21:26:02 | 47.57 | 44.87 | 1,184 | 0.54 | 0.17 | 64.7 |
| 5/3/2015 21:26:26 | 47.90 | 45.20 | 83 | 0.54 | 0.17 | 4.6 |
| 5/3/2015 21:26:30 | 48.23 | 45.53 | 119 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 21:26:46 | 48.56 | 45.86 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 21:27:06 | 48.88 | 46.18 | 17 | 0.54 | 0.17 | 1.0 |
| 5/3/2015 21:27:22 | 49.21 | 46.51 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 21:27:25 | 49.29 | 46.59 | 20 | 0.54 | 0.17 | 1.1 |

## P91 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:16:59

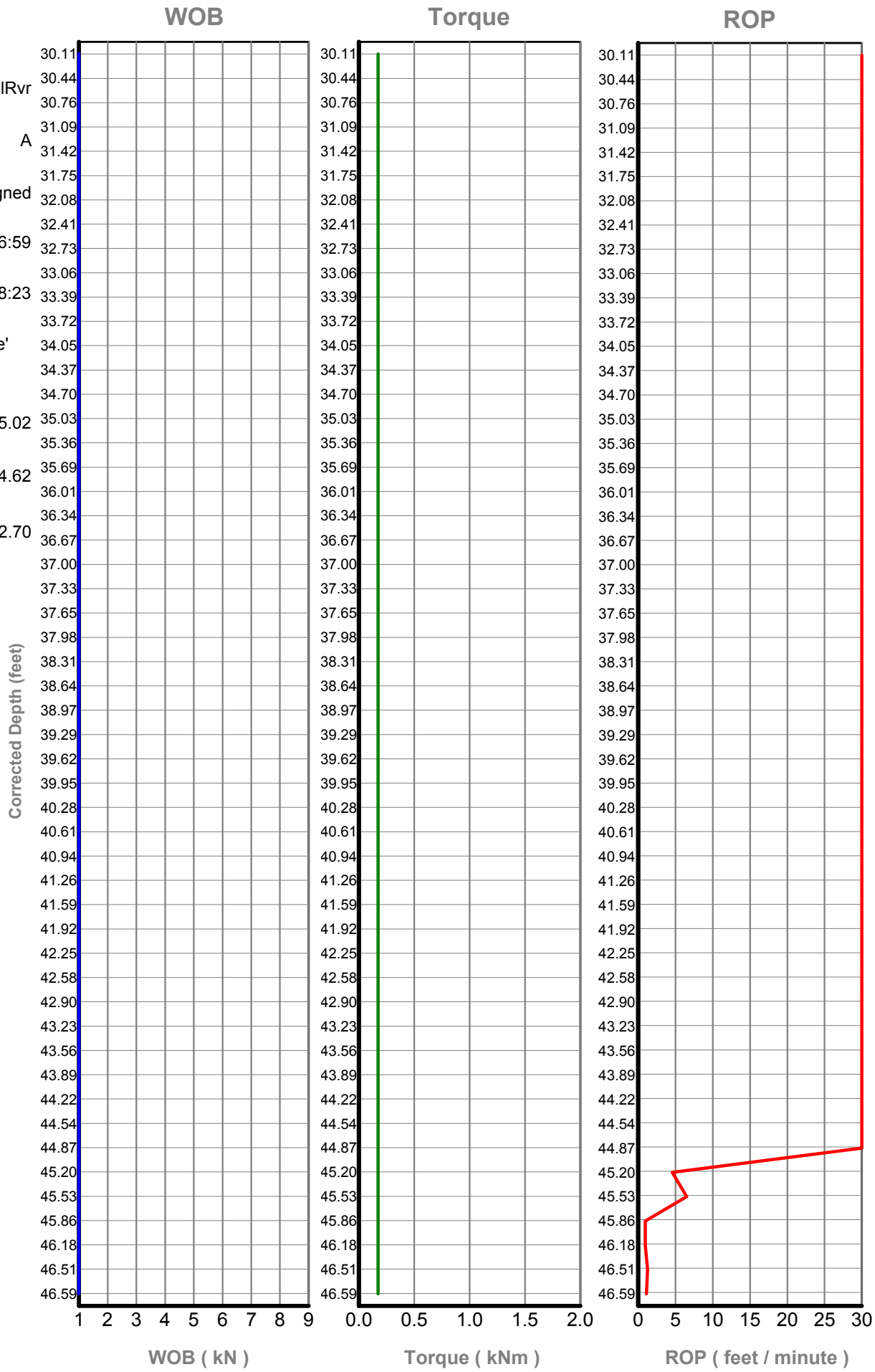
**End Date:**
5/3/2015 21:28:23

**Operator Note:**
'2.7 2.5 a Auto Complete'

**Northing:**
348,775.02

**Easting:**
224,124.62

**Tide (feet):**
2.70



## Hole: P92 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:27:22 | 33.14 | 30.04 | 549 | 0.30 | 0.27 | 30.0 |
| 5/3/2015 21:27:23 | 33.46 | 30.36 | 552 | 0.30 | 0.43 | 30.2 |
| 5/3/2015 21:27:24 | 33.79 | 30.69 | 533 | 0.28 | 0.11 | 29.2 |
| 5/3/2015 21:27:24 | 34.12 | 31.02 | 534 | 0.29 | 0.14 | 29.2 |
| 5/3/2015 21:27:25 | 34.45 | 31.35 | 534 | 0.29 | 0.12 | 29.2 |
| 5/3/2015 21:27:25 | 34.78 | 31.68 | 540 | 0.32 | 0.34 | 29.6 |
| 5/3/2015 21:27:26 | 35.11 | 32.01 | 534 | 0.28 | 0.17 | 29.2 |
| 5/3/2015 21:27:27 | 35.43 | 32.33 | 546 | 0.26 | 0.26 | 29.9 |
| 5/3/2015 21:27:27 | 35.76 | 32.66 | 529 | 0.29 | 0.21 | 28.9 |
| 5/3/2015 21:27:28 | 36.09 | 32.99 | 537 | 0.31 | 0.24 | 29.3 |
| 5/3/2015 21:27:29 | 36.42 | 33.32 | 537 | 0.29 | 0.37 | 29.3 |
| 5/3/2015 21:27:29 | 36.75 | 33.65 | 529 | 0.28 | 0.16 | 28.9 |
| 5/3/2015 21:27:30 | 37.07 | 33.97 | 529 | 0.29 | 0.37 | 28.9 |
| 5/3/2015 21:27:31 | 37.40 | 34.30 | 554 | 0.29 | 0.14 | 30.3 |
| 5/3/2015 21:27:32 | 37.73 | 34.63 | 545 | 0.28 | 0.20 | 29.8 |
| 5/3/2015 21:27:32 | 38.06 | 34.96 | 539 | 0.27 | 0.13 | 29.5 |
| 5/3/2015 21:27:33 | 38.39 | 35.29 | 535 | 0.26 | 0.14 | 29.3 |
| 5/3/2015 21:27:34 | 38.71 | 35.61 | 526 | 0.27 | 0.13 | 28.8 |
| 5/3/2015 21:27:34 | 39.04 | 35.94 | 520 | 0.30 | 0.44 | 28.4 |
| 5/3/2015 21:27:35 | 39.37 | 36.27 | 520 | 0.29 | 0.32 | 28.4 |
| 5/3/2015 21:27:36 | 39.70 | 36.60 | 524 | 0.26 | 0.28 | 28.7 |
| 5/3/2015 21:27:36 | 40.03 | 36.93 | 524 | 0.26 | 0.44 | 28.7 |
| 5/3/2015 21:27:37 | 40.35 | 37.25 | 524 | 0.29 | 0.28 | 28.6 |
| 5/3/2015 21:27:38 | 40.68 | 37.58 | 530 | 0.30 | 0.27 | 29.0 |
| 5/3/2015 21:27:38 | 41.01 | 37.91 | 538 | 0.27 | 0.20 | 29.4 |
| 5/3/2015 21:27:39 | 41.34 | 38.24 | 527 | 0.30 | 0.32 | 28.8 |
| 5/3/2015 21:27:39 | 41.67 | 38.57 | 527 | 0.27 | 0.32 | 28.8 |
| 5/3/2015 21:27:41 | 41.99 | 38.89 | 526 | 0.29 | 0.12 | 28.8 |
| 5/3/2015 21:27:41 | 42.32 | 39.22 | 526 | 0.28 | 0.20 | 28.8 |
| 5/3/2015 21:27:42 | 42.65 | 39.55 | 529 | 0.28 | 0.24 | 28.9 |
| 5/3/2015 21:27:43 | 42.98 | 39.88 | 535 | 0.26 | 0.43 | 29.3 |
| 5/3/2015 21:27:43 | 43.31 | 40.21 | 524 | 0.30 | 0.28 | 28.6 |
| 5/3/2015 21:27:44 | 43.64 | 40.54 | 541 | 0.28 | 0.10 | 29.6 |
| 5/3/2015 21:27:44 | 43.96 | 40.86 | 518 | 0.26 | 0.14 | 28.3 |
| 5/3/2015 21:27:45 | 44.29 | 41.19 | 536 | 0.28 | 0.19 | 29.3 |
| 5/3/2015 21:27:46 | 44.62 | 41.52 | 546 | 0.26 | 0.10 | 29.9 |
| 5/3/2015 21:27:46 | 44.95 | 41.85 | 537 | 0.28 | 0.19 | 29.4 |
| 5/3/2015 21:27:47 | 45.28 | 42.18 | 548 | 0.28 | 0.12 | 30.0 |
| 5/3/2015 21:27:48 | 45.60 | 42.50 | 538 | 0.29 | 0.24 | 29.4 |
| 5/3/2015 21:27:48 | 45.93 | 42.83 | 538 | 0.28 | 0.15 | 29.4 |
| 5/3/2015 21:27:49 | 46.26 | 43.16 | 535 | 0.27 | 0.43 | 29.3 |
| 5/3/2015 21:27:50 | 46.59 | 43.49 | 535 | 0.26 | 0.32 | 29.3 |
| 5/3/2015 21:27:50 | 46.92 | 43.82 | 538 | 0.29 | 0.26 | 29.4 |
| 5/3/2015 21:27:51 | 47.24 | 44.14 | 542 | 0.30 | 0.37 | 29.6 |
| 5/3/2015 21:27:52 | 47.57 | 44.47 | 526 | 0.27 | 0.15 | 28.8 |
| 5/3/2015 21:27:53 | 47.90 | 44.80 | 545 | 0.29 | 0.38 | 29.8 |
| 5/3/2015 21:27:53 | 48.23 | 45.13 | 539 | 0.25 | 0.40 | 29.5 |
| 5/3/2015 21:27:54 | 48.56 | 45.46 | 538 | 0.28 | 0.09 | 29.4 |
| 5/3/2015 21:27:55 | 48.88 | 45.78 | 532 | 0.27 | 0.46 | 29.1 |
| 5/3/2015 21:28:09 | 49.21 | 46.11 | 33 | 2.41 | 0.47 | 1.8 |
| 5/3/2015 21:28:19 | 49.54 | 46.44 | 69 | 4.19 | 0.45 | 3.8 |
| 5/3/2015 21:28:20 | 49.87 | 46.77 | 103 | 3.77 | 0.36 | 5.6 |
| 5/3/2015 21:28:21 | 50.20 | 47.10 | 161 | 2.17 | 0.23 | 8.8 |
| 5/3/2015 21:28:21 | 50.53 | 47.43 | 267 | 2.21 | 0.26 | 14.6 |
| 5/3/2015 21:28:23 | 50.85 | 47.75 | 433 | 2.01 | 0.28 | 23.7 |
| 5/3/2015 21:28:23 | 51.18 | 48.08 | 433 | 1.65 | 0.26 | 23.7 |
| 5/3/2015 21:28:24 | 51.51 | 48.41 | 512 | 2.03 | 0.26 | 28.0 |
| 5/3/2015 21:28:25 | 51.84 | 48.74 | 503 | 1.93 | 0.27 | 27.5 |
| 5/3/2015 21:28:25 | 52.17 | 49.07 | 494 | 1.91 | 0.27 | 27.0 |
| 5/3/2015 21:28:26 | 52.49 | 49.39 | 503 | 1.96 | 0.27 | 27.5 |
| 5/3/2015 21:28:27 | 52.82 | 49.72 | 503 | 2.01 | 0.28 | 27.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 21:28:27 | 53.15 | 50.05 | 497 | 2.00 | 0.28 | 27.2 |
| 5/3/2015 | 21:28:28 | 53.48 | 50.38 | 500 | 2.06 | 0.30 | 27.4 |
| 5/3/2015 | 21:28:29 | 53.81 | 50.71 | 503 | 2.07 | 0.27 | 27.5 |
| 5/3/2015 | 21:28:29 | 54.13 | 51.03 | 503 | 2.10 | 0.29 | 27.5 |
| 5/3/2015 | 21:28:30 | 54.46 | 51.36 | 506 | 2.40 | 0.31 | 27.7 |
| 5/3/2015 | 21:28:31 | 54.79 | 51.69 | 497 | 2.54 | 0.37 | 27.2 |
| 5/3/2015 | 21:28:32 | 55.12 | 52.02 | 464 | 2.66 | 0.43 | 25.4 |
| 5/3/2015 | 21:28:33 | 55.45 | 52.35 | 392 | 3.37 | 0.45 | 21.4 |
| 5/3/2015 | 21:28:36 | 55.77 | 52.67 | 175 | 3.09 | 0.47 | 9.6 |
| 5/3/2015 | 21:28:38 | 56.10 | 53.00 | 144 | 3.62 | 0.46 | 7.9 |
| 5/3/2015 | 21:28:53 | 56.43 | 53.33 | 35 | 2.94 | 0.47 | 1.9 |
| 5/3/2015 | 21:28:58 | 56.76 | 53.66 | 75 | 4.22 | 0.46 | 4.1 |
| 5/3/2015 | 21:29:00 | 57.09 | 53.99 | 141 | 4.49 | 0.45 | 7.7 |
| 5/3/2015 | 21:29:21 | 57.41 | 54.31 | 0 | 4.68 | 0.47 | 0.0 |
| 5/3/2015 | 21:29:22 | 57.46 | 54.36 | 14 | 4.34 | 0.47 | 0.8 |

## P92 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:25:25

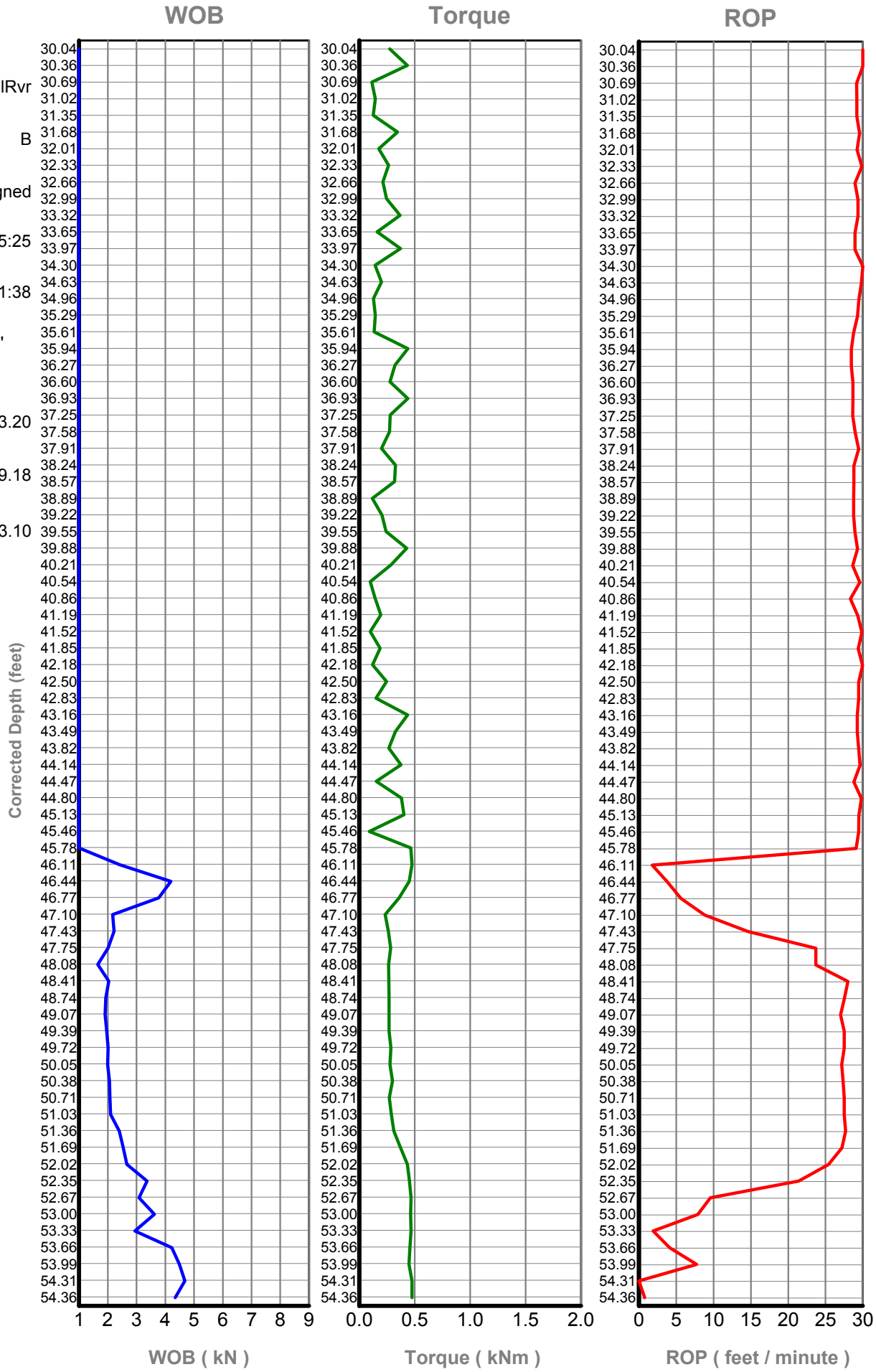
**End Date:**
5/3/2015 21:31:38

**Operator Note:**
'3.1 2.5b Auto Complete'

**Northing:**
348,813.20

**Easting:**
224,189.18

**Tide (feet):**
3.10



## Hole: P93 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 21:25:12 | 33.14 | 30.04 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:12 | 33.46 | 30.36 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 21:25:13 | 33.79 | 30.69 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 21:25:13 | 34.12 | 31.02 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:13 | 34.45 | 31.35 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:13 | 34.78 | 31.68 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/3/2015 21:25:14 | 35.11 | 32.01 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:14 | 35.43 | 32.33 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:14 | 35.76 | 32.66 | 1,109 | 1.14 | 0.29 | 60.7 |
| 5/3/2015 21:25:15 | 36.09 | 32.99 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:25:15 | 36.42 | 33.32 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:25:15 | 36.75 | 33.65 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:16 | 37.07 | 33.97 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:16 | 37.40 | 34.30 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:16 | 37.73 | 34.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:17 | 38.06 | 34.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:17 | 38.39 | 35.29 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:18 | 38.71 | 35.61 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:18 | 39.04 | 35.94 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/3/2015 21:25:18 | 39.37 | 36.27 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:19 | 39.70 | 36.60 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:19 | 40.03 | 36.93 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/3/2015 21:25:19 | 40.35 | 37.25 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:20 | 40.68 | 37.58 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:20 | 41.01 | 37.91 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:20 | 41.34 | 38.24 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:25:21 | 41.67 | 38.57 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:25:21 | 41.99 | 38.89 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:21 | 42.32 | 39.22 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:22 | 42.65 | 39.55 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/3/2015 21:25:22 | 42.98 | 39.88 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:22 | 43.31 | 40.21 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/3/2015 21:25:22 | 43.64 | 40.54 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:25:23 | 43.96 | 40.86 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:25:23 | 44.29 | 41.19 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/3/2015 21:25:23 | 44.62 | 41.52 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/3/2015 21:25:24 | 44.95 | 41.85 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:25:24 | 45.28 | 42.18 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:25:24 | 45.60 | 42.50 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:25:25 | 45.93 | 42.83 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:25:25 | 46.26 | 43.16 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/3/2015 21:25:25 | 46.59 | 43.49 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/3/2015 21:25:33 | 46.92 | 43.82 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 21:25:34 | 47.24 | 44.14 | 128 | 1.14 | 0.29 | 7.0 |
| 5/3/2015 21:25:35 | 47.57 | 44.47 | 256 | 1.14 | 0.29 | 14.0 |
| 5/3/2015 21:25:36 | 47.90 | 44.80 | 387 | 1.14 | 0.29 | 21.2 |
| 5/3/2015 21:25:37 | 48.23 | 45.13 | 467 | 1.14 | 0.29 | 25.5 |
| 5/3/2015 21:25:49 | 48.56 | 45.46 | 20 | 1.14 | 0.29 | 1.1 |
| 5/3/2015 21:25:59 | 48.88 | 45.78 | 77 | 1.14 | 0.29 | 4.2 |
| 5/3/2015 21:26:00 | 49.21 | 46.11 | 175 | 1.14 | 0.29 | 9.6 |
| 5/3/2015 21:26:01 | 49.54 | 46.44 | 344 | 1.14 | 0.29 | 18.8 |
| 5/3/2015 21:26:02 | 49.87 | 46.77 | 344 | 1.14 | 0.29 | 18.8 |
| 5/3/2015 21:26:11 | 50.20 | 47.10 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 21:26:11 | 50.53 | 47.43 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 21:26:11 | 50.85 | 47.75 | 218 | 1.14 | 0.29 | 11.9 |
| 5/3/2015 21:26:17 | 51.18 | 48.08 | 3 | 1.14 | 0.29 | 0.2 |
| 5/3/2015 21:26:17 | 51.51 | 48.41 | 167 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 21:26:18 | 51.84 | 48.74 | 278 | 1.14 | 0.29 | 15.2 |
| 5/3/2015 21:26:19 | 52.17 | 49.07 | 469 | 1.14 | 0.29 | 25.6 |
| 5/3/2015 21:26:19 | 52.49 | 49.39 | 546 | 1.14 | 0.29 | 29.8 |
| 5/3/2015 21:26:22 | 52.82 | 49.72 | 174 | 1.14 | 0.29 | 9.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 21:26:22 | 53.15 | 50.05 | 203 | 1.14 | 0.29 | 11.1 |
| 5/3/2015 | 21:26:25 | 53.48 | 50.38 | 85 | 1.14 | 0.29 | 4.7 |
| 5/3/2015 | 21:26:25 | 53.81 | 50.71 | 147 | 1.14 | 0.29 | 8.0 |
| 5/3/2015 | 21:26:26 | 54.13 | 51.03 | 324 | 1.14 | 0.29 | 17.7 |
| 5/3/2015 | 21:26:26 | 54.46 | 51.36 | 506 | 1.14 | 0.29 | 27.7 |
| 5/3/2015 | 21:26:27 | 54.79 | 51.69 | 660 | 1.14 | 0.29 | 36.1 |
| 5/3/2015 | 21:26:28 | 55.12 | 52.02 | 759 | 1.14 | 0.29 | 41.5 |
| 5/3/2015 | 21:26:30 | 55.45 | 52.35 | 166 | 1.14 | 0.29 | 9.1 |
| 5/3/2015 | 21:26:31 | 55.77 | 52.67 | 177 | 1.14 | 0.29 | 9.7 |
| 5/3/2015 | 21:26:31 | 56.10 | 53.00 | 226 | 1.14 | 0.29 | 12.3 |
| 5/3/2015 | 21:26:32 | 56.43 | 53.33 | 320 | 1.14 | 0.29 | 17.5 |
| 5/3/2015 | 21:26:33 | 56.76 | 53.66 | 529 | 1.14 | 0.29 | 28.9 |
| 5/3/2015 | 21:26:35 | 57.09 | 53.99 | 236 | 1.14 | 0.29 | 12.9 |
| 5/3/2015 | 21:26:35 | 57.41 | 54.31 | 241 | 1.14 | 0.29 | 13.2 |
| 5/3/2015 | 21:26:36 | 57.51 | 54.41 | 289 | 1.14 | 0.29 | 15.8 |

## P93 - Summary

**Pattern Number:**
AreaP_Lane9-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 21:24:19

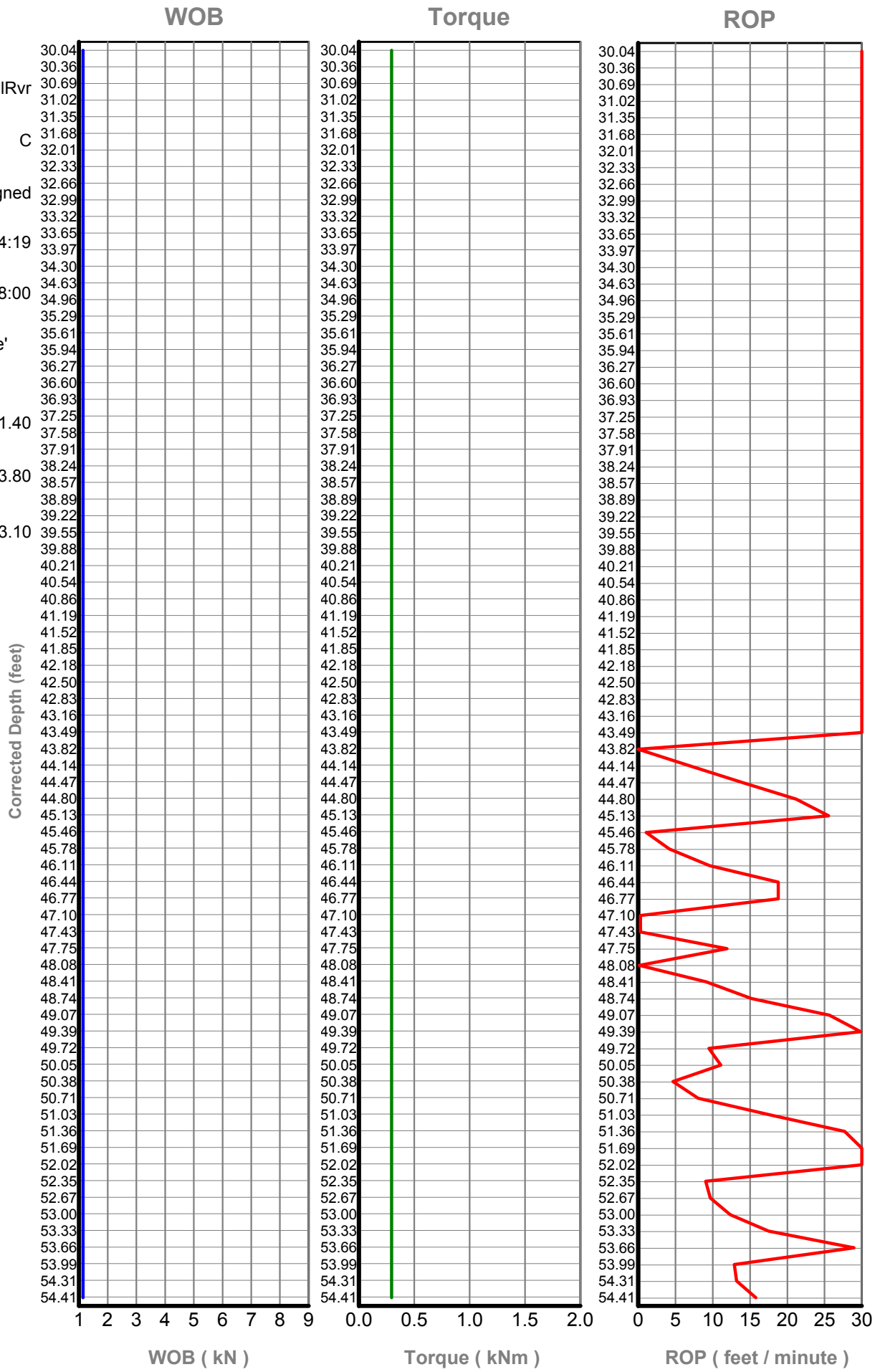
**End Date:**
5/3/2015 21:28:00

**Operator Note:**
'3.1 2.5 c Auto Complete'

**Northing:**
348,851.40

**Easting:**
224,253.80

**Tide (feet):**
3.10



## Hole: P94 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:34:51 | 32.81 | 30.31 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:52 | 33.14 | 30.64 | 872 | 0.54 | 0.17 | 47.7 |
| 5/3/2015 16:34:52 | 33.46 | 30.96 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:53 | 33.79 | 31.29 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:53 | 34.12 | 31.62 | 869 | 0.54 | 0.17 | 47.5 |
| 5/3/2015 16:34:53 | 34.45 | 31.95 | 861 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 16:34:54 | 34.78 | 32.28 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:54 | 35.11 | 32.61 | 866 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:55 | 35.43 | 32.93 | 866 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:55 | 35.76 | 33.26 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:55 | 36.09 | 33.59 | 859 | 0.54 | 0.17 | 47.0 |
| 5/3/2015 16:34:56 | 36.42 | 33.92 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:56 | 36.75 | 34.25 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:57 | 37.07 | 34.57 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:57 | 37.40 | 34.90 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:57 | 37.73 | 35.23 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:58 | 38.06 | 35.56 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:58 | 38.39 | 35.89 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:59 | 38.71 | 36.21 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:34:59 | 39.04 | 36.54 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:34:59 | 39.37 | 36.87 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:35:00 | 39.70 | 37.20 | 862 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 16:35:01 | 40.03 | 37.53 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:35:01 | 40.35 | 37.85 | 867 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:35:01 | 40.68 | 38.18 | 864 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:35:02 | 41.01 | 38.51 | 863 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:35:02 | 41.34 | 38.84 | 863 | 0.54 | 0.17 | 47.2 |
| 5/3/2015 16:35:03 | 41.67 | 39.17 | 866 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:35:03 | 41.99 | 39.49 | 866 | 0.54 | 0.17 | 47.4 |
| 5/3/2015 16:35:03 | 42.32 | 39.82 | 861 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 16:35:04 | 42.65 | 40.15 | 861 | 0.54 | 0.17 | 47.1 |
| 5/3/2015 16:35:04 | 42.98 | 40.48 | 853 | 0.54 | 0.17 | 46.6 |
| 5/3/2015 16:35:05 | 43.31 | 40.81 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:05 | 43.64 | 41.14 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:05 | 43.96 | 41.46 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:06 | 44.29 | 41.79 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:06 | 44.62 | 42.12 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:07 | 44.95 | 42.45 | 858 | 0.54 | 0.17 | 46.9 |
| 5/3/2015 16:35:07 | 45.28 | 42.78 | 840 | 0.54 | 0.17 | 45.9 |
| 5/3/2015 16:35:08 | 45.60 | 43.10 | 811 | 0.54 | 0.17 | 44.3 |
| 5/3/2015 16:35:21 | 45.93 | 43.43 | 65 | 0.54 | 0.17 | 3.5 |
| 5/3/2015 16:35:24 | 46.26 | 43.76 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 16:35:27 | 46.59 | 44.09 | 162 | 0.54 | 0.17 | 8.9 |
| 5/3/2015 16:35:29 | 46.92 | 44.42 | 172 | 0.54 | 0.17 | 9.4 |
| 5/3/2015 16:35:31 | 47.24 | 44.74 | 157 | 0.54 | 0.17 | 8.6 |
| 5/3/2015 16:35:34 | 47.57 | 45.07 | 138 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 16:35:36 | 47.90 | 45.40 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 16:35:39 | 48.23 | 45.73 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 16:35:41 | 48.56 | 46.06 | 137 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 16:35:44 | 48.88 | 46.38 | 137 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 16:35:46 | 49.21 | 46.71 | 137 | 0.54 | 0.17 | 7.5 |
| 5/3/2015 16:35:49 | 49.54 | 47.04 | 143 | 0.54 | 0.17 | 7.8 |
| 5/3/2015 16:35:51 | 49.87 | 47.37 | 172 | 0.54 | 0.17 | 9.4 |
| 5/3/2015 16:35:52 | 50.20 | 47.70 | 238 | 0.54 | 0.17 | 13.0 |
| 5/3/2015 16:35:53 | 50.53 | 48.03 | 279 | 0.54 | 0.17 | 15.3 |
| 5/3/2015 16:35:55 | 50.85 | 48.35 | 269 | 0.54 | 0.17 | 14.7 |
| 5/3/2015 16:35:56 | 51.18 | 48.68 | 259 | 0.54 | 0.17 | 14.1 |
| 5/3/2015 16:35:58 | 51.51 | 49.01 | 241 | 0.54 | 0.17 | 13.2 |
| 5/3/2015 16:35:59 | 51.84 | 49.34 | 221 | 0.54 | 0.17 | 12.1 |
| 5/3/2015 16:36:03 | 52.17 | 49.67 | 112 | 0.54 | 0.17 | 6.1 |
| 5/3/2015 16:36:03 | 52.49 | 49.99 | 186 | 0.54 | 0.17 | 10.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 16:36:04 | 52.82 | 50.32 | 354 | 0.54 | 0.17 | 19.3 |
| 5/3/2015 | 16:36:19 | 53.15 | 50.65 | 51 | 0.54 | 0.17 | 2.8 |
| 5/3/2015 | 16:36:20 | 53.48 | 50.98 | 216 | 0.54 | 0.17 | 11.8 |
| 5/3/2015 | 16:36:21 | 53.81 | 51.31 | 381 | 0.54 | 0.17 | 20.9 |
| 5/3/2015 | 16:36:22 | 54.13 | 51.63 | 401 | 0.54 | 0.17 | 21.9 |
| 5/3/2015 | 16:36:22 | 54.46 | 51.96 | 399 | 0.54 | 0.17 | 21.8 |
| 5/3/2015 | 16:36:25 | 54.79 | 52.29 | 276 | 0.54 | 0.17 | 15.1 |
| 5/3/2015 | 16:36:28 | 55.12 | 52.62 | 89 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 16:36:31 | 55.45 | 52.95 | 116 | 0.54 | 0.17 | 6.4 |
| 5/3/2015 | 16:36:34 | 55.77 | 53.27 | 119 | 0.54 | 0.17 | 6.5 |
| 5/3/2015 | 16:36:39 | 56.10 | 53.60 | 76 | 0.54 | 0.17 | 4.1 |
| 5/3/2015 | 16:36:45 | 56.43 | 53.93 | 35 | 0.54 | 0.17 | 1.9 |
| 5/3/2015 | 16:36:49 | 56.76 | 54.26 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 | 16:36:54 | 57.09 | 54.59 | 60 | 0.54 | 0.17 | 3.3 |
| 5/3/2015 | 16:37:21 | 57.41 | 54.91 | 0 | 0.54 | 0.17 | 0.0 |
| 5/3/2015 | 16:37:26 | 57.74 | 55.24 | 102 | 0.54 | 0.17 | 5.6 |
| 5/3/2015 | 16:37:26 | 57.85 | 55.35 | 116 | 0.54 | 0.17 | 6.4 |

## P94 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:33:29

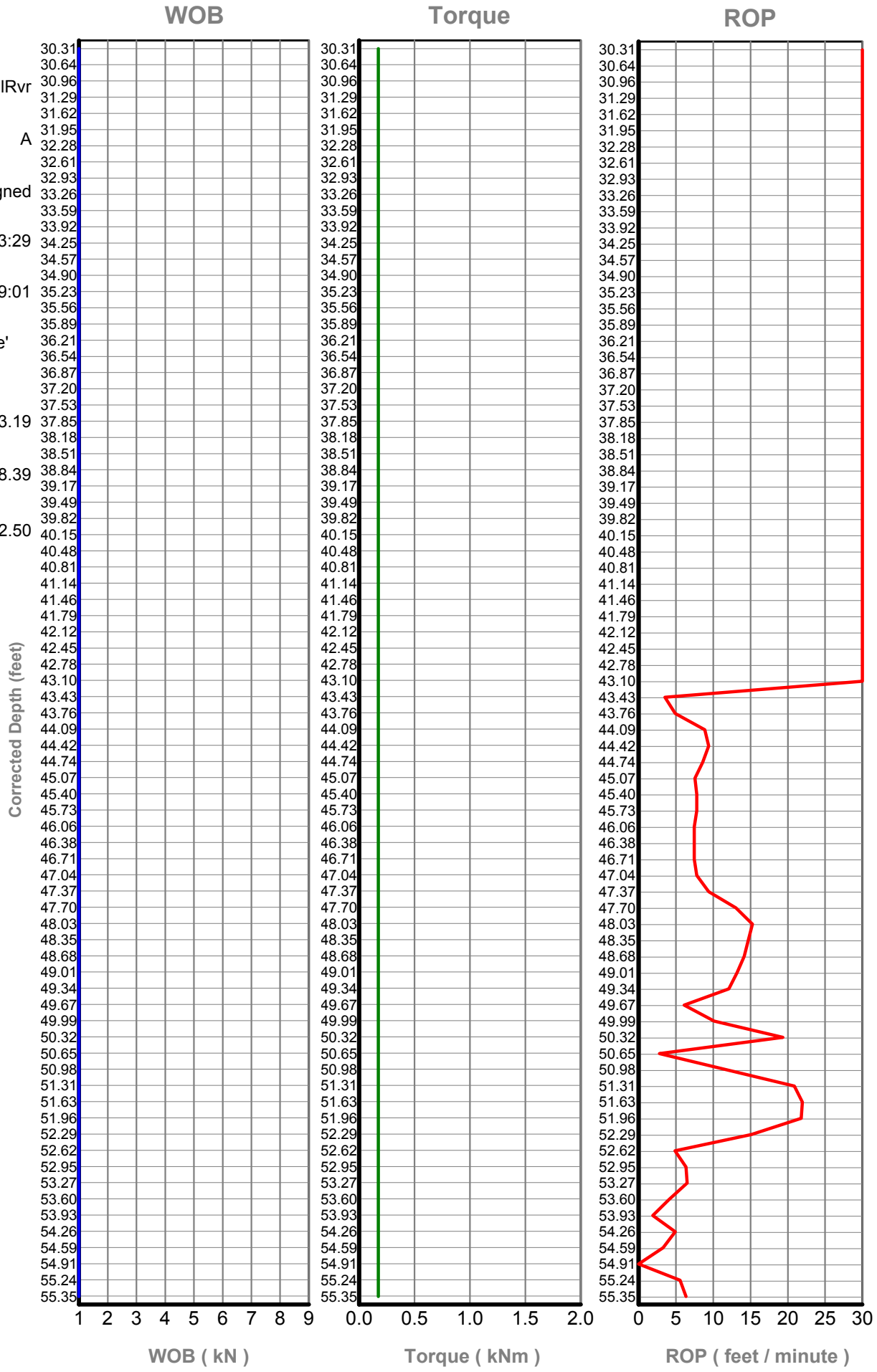
**End Date:**
5/3/2015 16:39:01

**Operator Note:**
'2.5 2.8 a Auto Complete'

**Northing:**
348,893.19

**Easting:**
224,308.39

**Tide (feet):**
2.50



## Hole: P95 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:34:46 | 32.81 | 30.31 | 1,312 | 0.26 | 0.28 | 71.8 |
| 5/3/2015 16:34:46 | 33.14 | 30.64 | 1,315 | 0.25 | 0.34 | 71.9 |
| 5/3/2015 16:34:47 | 33.46 | 30.96 | 1,315 | 0.25 | 0.34 | 71.9 |
| 5/3/2015 16:34:47 | 33.79 | 31.29 | 1,305 | 0.24 | 0.31 | 71.3 |
| 5/3/2015 16:34:47 | 34.12 | 31.62 | 1,305 | 0.24 | 0.31 | 71.3 |
| 5/3/2015 16:34:47 | 34.45 | 31.95 | 1,319 | 0.22 | 0.40 | 72.1 |
| 5/3/2015 16:34:48 | 34.78 | 32.28 | 1,319 | 0.22 | 0.40 | 72.1 |
| 5/3/2015 16:34:48 | 35.11 | 32.61 | 1,316 | 0.24 | 0.41 | 71.9 |
| 5/3/2015 16:34:48 | 35.43 | 32.93 | 1,316 | 0.24 | 0.41 | 71.9 |
| 5/3/2015 16:34:48 | 35.76 | 33.26 | 1,327 | 0.22 | 0.41 | 72.5 |
| 5/3/2015 16:34:49 | 36.09 | 33.59 | 1,327 | 0.22 | 0.41 | 72.5 |
| 5/3/2015 16:34:49 | 36.42 | 33.92 | 1,313 | 0.27 | 0.37 | 71.8 |
| 5/3/2015 16:34:49 | 36.75 | 34.25 | 1,323 | 0.26 | 0.34 | 72.4 |
| 5/3/2015 16:34:50 | 37.07 | 34.57 | 1,323 | 0.26 | 0.34 | 72.4 |
| 5/3/2015 16:34:50 | 37.40 | 34.90 | 1,312 | 0.22 | 0.37 | 71.8 |
| 5/3/2015 16:34:50 | 37.73 | 35.23 | 1,312 | 0.22 | 0.37 | 71.8 |
| 5/3/2015 16:34:50 | 38.06 | 35.56 | 1,312 | 0.24 | 0.37 | 71.8 |
| 5/3/2015 16:34:51 | 38.39 | 35.89 | 1,312 | 0.24 | 0.37 | 71.8 |
| 5/3/2015 16:34:51 | 38.71 | 36.21 | 1,307 | 0.23 | 0.39 | 71.5 |
| 5/3/2015 16:34:51 | 39.04 | 36.54 | 1,307 | 0.23 | 0.39 | 71.5 |
| 5/3/2015 16:34:51 | 39.37 | 36.87 | 1,333 | 0.25 | 0.35 | 72.9 |
| 5/3/2015 16:34:52 | 39.70 | 37.20 | 1,333 | 0.25 | 0.35 | 72.9 |
| 5/3/2015 16:34:52 | 40.03 | 37.53 | 1,327 | 0.26 | 0.29 | 72.6 |
| 5/3/2015 16:34:52 | 40.35 | 37.85 | 1,327 | 0.26 | 0.29 | 72.6 |
| 5/3/2015 16:34:52 | 40.68 | 38.18 | 1,329 | 0.25 | 0.38 | 72.7 |
| 5/3/2015 16:34:53 | 41.01 | 38.51 | 1,329 | 0.25 | 0.38 | 72.7 |
| 5/3/2015 16:34:53 | 41.34 | 38.84 | 1,318 | 0.26 | 0.34 | 72.1 |
| 5/3/2015 16:34:53 | 41.67 | 39.17 | 1,318 | 0.26 | 0.34 | 72.1 |
| 5/3/2015 16:34:53 | 41.99 | 39.49 | 1,318 | 0.26 | 0.27 | 72.1 |
| 5/3/2015 16:34:54 | 42.32 | 39.82 | 1,318 | 0.26 | 0.27 | 72.1 |
| 5/3/2015 16:34:54 | 42.65 | 40.15 | 1,304 | 0.22 | 0.39 | 71.3 |
| 5/3/2015 16:34:54 | 42.98 | 40.48 | 1,304 | 0.22 | 0.39 | 71.3 |
| 5/3/2015 16:34:54 | 43.31 | 40.81 | 1,304 | 0.25 | 0.32 | 71.3 |
| 5/3/2015 16:34:55 | 43.64 | 41.14 | 1,304 | 0.25 | 0.32 | 71.3 |
| 5/3/2015 16:34:55 | 43.96 | 41.46 | 1,296 | 0.29 | 0.40 | 70.8 |
| 5/3/2015 16:34:55 | 44.29 | 41.79 | 1,307 | 0.21 | 0.37 | 71.4 |
| 5/3/2015 16:34:56 | 44.62 | 42.12 | 1,307 | 0.21 | 0.37 | 71.4 |
| 5/3/2015 16:34:56 | 44.95 | 42.45 | 1,301 | 0.26 | 0.39 | 71.1 |
| 5/3/2015 16:34:57 | 45.28 | 42.78 | 1,301 | 0.26 | 0.39 | 71.1 |
| 5/3/2015 16:34:57 | 45.60 | 43.10 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 16:34:57 | 45.93 | 43.43 | 1,304 | 0.26 | 0.37 | 71.3 |
| 5/3/2015 16:34:57 | 46.26 | 43.76 | 1,292 | 0.24 | 0.47 | 70.7 |
| 5/3/2015 16:35:07 | 46.59 | 44.09 | 67 | 4.00 | 0.60 | 3.7 |
| 5/3/2015 16:35:11 | 46.92 | 44.42 | 21 | 3.12 | 0.46 | 1.1 |
| 5/3/2015 16:35:13 | 47.24 | 44.74 | 250 | 3.73 | 0.47 | 13.7 |
| 5/3/2015 16:35:16 | 47.57 | 45.07 | 80 | 5.46 | 0.48 | 4.4 |
| 5/3/2015 16:35:19 | 47.90 | 45.40 | 116 | 2.99 | 0.46 | 6.3 |
| 5/3/2015 16:35:20 | 48.23 | 45.73 | 212 | 2.12 | 0.44 | 11.6 |
| 5/3/2015 16:35:24 | 48.56 | 46.06 | 0 | 2.14 | 0.42 | 0.0 |
| 5/3/2015 16:35:25 | 48.88 | 46.38 | 112 | 2.44 | 0.47 | 6.1 |
| 5/3/2015 16:35:27 | 49.21 | 46.71 | 204 | 2.68 | 0.45 | 11.2 |
| 5/3/2015 16:35:28 | 49.54 | 47.04 | 298 | 2.91 | 0.45 | 16.3 |
| 5/3/2015 16:35:28 | 49.87 | 47.37 | 298 | 2.76 | 0.47 | 16.3 |
| 5/3/2015 16:36:14 | 50.20 | 47.70 | 0 | 2.05 | 0.46 | 0.0 |
| 5/3/2015 16:36:14 | 50.53 | 48.03 | 100 | 2.13 | 0.48 | 5.5 |
| 5/3/2015 16:36:34 | 50.85 | 48.35 | 11 | 1.97 | 0.43 | 0.6 |
| 5/3/2015 16:36:34 | 51.18 | 48.68 | 176 | 1.95 | 0.42 | 9.6 |
| 5/3/2015 16:36:39 | 51.51 | 49.01 | 0 | 2.38 | 0.48 | 0.0 |
| 5/3/2015 16:36:44 | 51.84 | 49.34 | 43 | 2.52 | 0.49 | 2.4 |
| 5/3/2015 16:36:46 | 52.17 | 49.67 | 95 | 2.84 | 0.47 | 5.2 |
| 5/3/2015 16:36:53 | 52.49 | 49.99 | 37 | 2.46 | 0.48 | 2.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 16:36:56 | 52.82 | 50.32 | 88 | 2.76 | 0.48 | 4.8 |
| 5/3/2015 | 16:36:59 | 53.15 | 50.65 | 140 | 3.03 | 0.48 | 7.6 |
| 5/3/2015 | 16:37:12 | 53.48 | 50.98 | 47 | 2.84 | 0.48 | 2.6 |
| 5/3/2015 | 16:37:24 | 53.81 | 51.31 | 16 | 2.69 | 0.48 | 0.9 |
| 5/3/2015 | 16:38:38 | 54.13 | 51.63 | 9 | 3.07 | 0.48 | 0.5 |
| 5/3/2015 | 16:38:48 | 54.46 | 51.96 | 50 | 2.84 | 0.49 | 2.8 |
| 5/3/2015 | 16:38:56 | 54.79 | 52.29 | 43 | 2.47 | 0.49 | 2.4 |
| 5/3/2015 | 16:39:02 | 55.12 | 52.62 | 63 | 2.55 | 0.48 | 3.4 |
| 5/3/2015 | 16:39:05 | 55.45 | 52.95 | 112 | 2.62 | 0.48 | 6.1 |
| 5/3/2015 | 16:39:21 | 55.77 | 53.27 | 57 | 3.09 | 0.48 | 3.1 |
| 5/3/2015 | 16:39:35 | 56.10 | 53.60 | 14 | 2.79 | 0.48 | 0.8 |
| 5/3/2015 | 16:39:40 | 56.43 | 53.93 | 84 | 3.01 | 0.48 | 4.6 |
| 5/3/2015 | 16:39:43 | 56.76 | 54.26 | 107 | 2.75 | 0.49 | 5.8 |
| 5/3/2015 | 16:39:45 | 57.09 | 54.59 | 139 | 3.14 | 0.48 | 7.6 |
| 5/3/2015 | 16:39:50 | 57.41 | 54.91 | 72 | 2.55 | 0.49 | 3.9 |
| 5/3/2015 | 16:39:53 | 57.74 | 55.24 | 106 | 2.63 | 0.48 | 5.8 |
| 5/3/2015 | 16:39:54 | 57.84 | 55.34 | 101 | 2.68 | 0.48 | 5.5 |

## P95 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:33:04

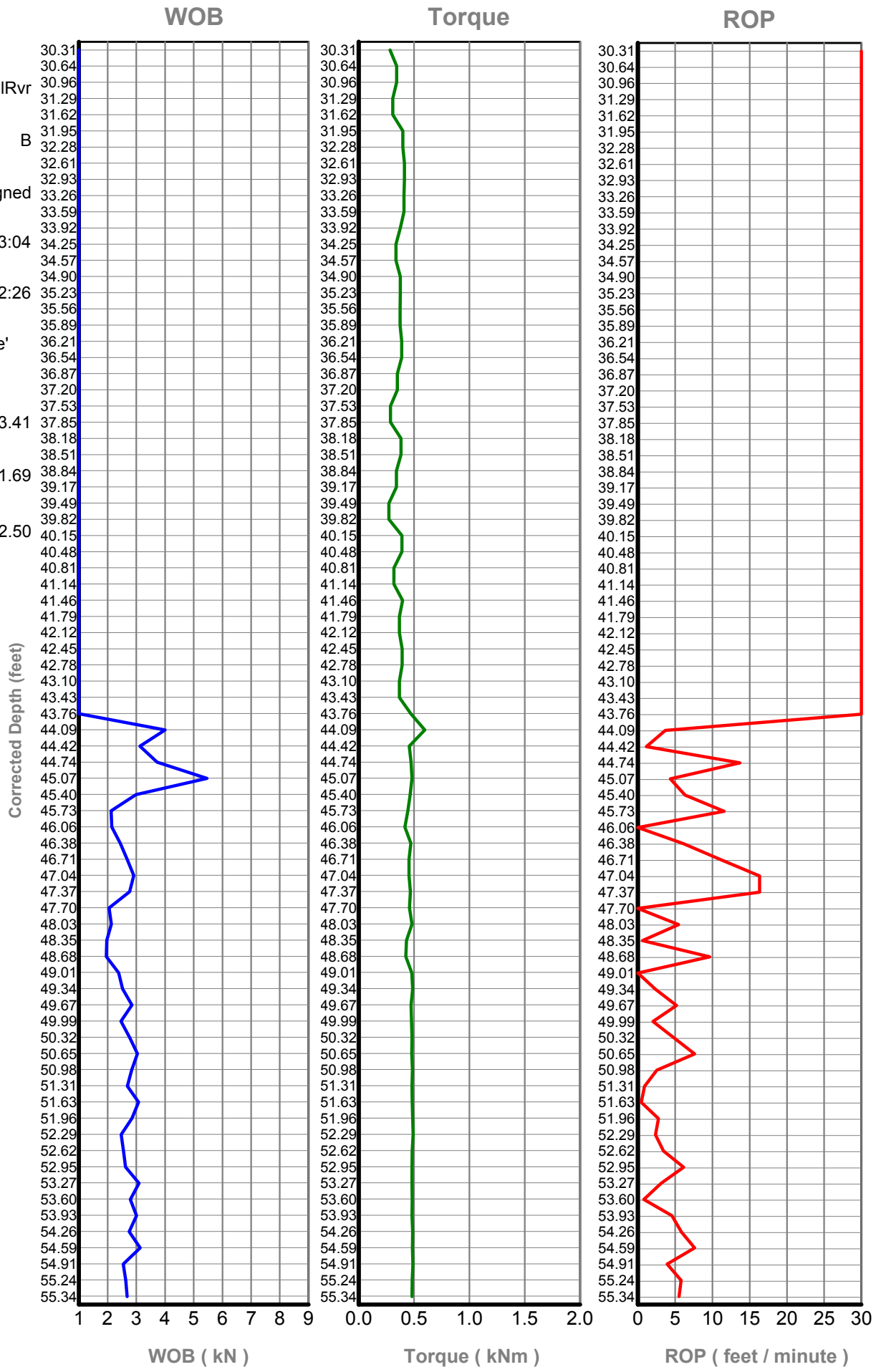
**End Date:**
5/3/2015 16:42:26

**Operator Note:**
'2.5 2.8 b Auto Complete'

**Northing:**
348,933.41

**Easting:**
224,371.69

**Tide (feet):**
2.50



## Hole: P96 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 16:34:04 | 32.81 | 30.31 | 1,122 | 1.14 | 0.29 | 61.4 |
| 5/3/2015 16:34:04 | 33.14 | 30.64 | 1,145 | 1.14 | 0.29 | 62.6 |
| 5/3/2015 16:34:05 | 33.46 | 30.96 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 16:34:06 | 33.79 | 31.29 | 1,147 | 1.14 | 0.29 | 62.7 |
| 5/3/2015 16:34:05 | 34.12 | 31.62 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 16:34:06 | 34.45 | 31.95 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 16:34:06 | 34.78 | 32.28 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 16:34:06 | 35.11 | 32.61 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 16:34:07 | 35.43 | 32.93 | 1,164 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 16:34:07 | 35.76 | 33.26 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 16:34:08 | 36.09 | 33.59 | 1,187 | 1.14 | 0.29 | 64.9 |
| 5/3/2015 16:34:08 | 36.42 | 33.92 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 16:34:08 | 36.75 | 34.25 | 1,183 | 1.14 | 0.29 | 64.7 |
| 5/3/2015 16:34:08 | 37.07 | 34.57 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 16:34:09 | 37.40 | 34.90 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 16:34:09 | 37.73 | 35.23 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 16:34:09 | 38.06 | 35.56 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:10 | 38.39 | 35.89 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:10 | 38.71 | 36.21 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:10 | 39.04 | 36.54 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 16:34:11 | 39.37 | 36.87 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 16:34:11 | 39.70 | 37.20 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 16:34:11 | 40.03 | 37.53 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 16:34:11 | 40.35 | 37.85 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:12 | 40.68 | 38.18 | 1,172 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:12 | 41.01 | 38.51 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 16:34:12 | 41.34 | 38.84 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 16:34:13 | 41.67 | 39.17 | 1,169 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 16:34:13 | 41.99 | 39.49 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 16:34:13 | 42.32 | 39.82 | 1,184 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 16:34:13 | 42.65 | 40.15 | 1,171 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 16:34:14 | 42.98 | 40.48 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 16:34:14 | 43.31 | 40.81 | 1,174 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 16:34:14 | 43.64 | 41.14 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 16:34:15 | 43.96 | 41.46 | 1,170 | 1.14 | 0.29 | 64.0 |
| 5/3/2015 16:34:15 | 44.29 | 41.79 | 1,180 | 1.14 | 0.29 | 64.5 |
| 5/3/2015 16:34:15 | 44.62 | 42.12 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:16 | 44.95 | 42.45 | 1,173 | 1.14 | 0.29 | 64.1 |
| 5/3/2015 16:34:16 | 45.28 | 42.78 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 16:34:16 | 45.60 | 43.10 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 16:34:16 | 45.93 | 43.43 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 16:34:17 | 46.26 | 43.76 | 1,157 | 1.14 | 0.29 | 63.3 |
| 5/3/2015 16:34:31 | 46.59 | 44.09 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 16:34:31 | 46.92 | 44.42 | 112 | 1.14 | 0.29 | 6.1 |
| 5/3/2015 16:34:33 | 47.24 | 44.74 | 285 | 1.14 | 0.29 | 15.6 |
| 5/3/2015 16:34:35 | 47.57 | 45.07 | 224 | 1.14 | 0.29 | 12.2 |
| 5/3/2015 16:34:37 | 47.90 | 45.40 | 205 | 1.14 | 0.29 | 11.2 |
| 5/3/2015 16:35:01 | 48.23 | 45.73 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 16:35:05 | 48.56 | 46.06 | 81 | 1.14 | 0.29 | 4.4 |
| 5/3/2015 16:35:11 | 48.88 | 46.38 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 16:35:16 | 49.21 | 46.71 | 69 | 1.14 | 0.29 | 3.7 |
| 5/3/2015 16:35:22 | 49.54 | 47.04 | 55 | 1.14 | 0.29 | 3.0 |
| 5/3/2015 16:35:28 | 49.86 | 47.36 | 64 | 1.14 | 0.29 | 3.5 |

## P96 - Summary

**Pattern Number:**
AreaP_Lane8-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 16:33:02

**End Date:**
5/3/2015 16:48:52

**Operator Note:**
'2.5 1.8 c Auto Complete'

**Northing:**
348,973.60

**Easting:**
224,435.00

**Tide (feet):**
2.50



## Hole: P97 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:20:14 | 35.11 | 30.21 | 1,024 | 0.54 | 0.17 | 56.0 |
| 5/3/2015 14:20:14 | 35.43 | 30.53 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 14:20:14 | 35.76 | 30.86 | 1,009 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 14:20:15 | 36.09 | 31.19 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:15 | 36.42 | 31.52 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:15 | 36.75 | 31.85 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:16 | 37.07 | 32.17 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 14:20:16 | 37.40 | 32.50 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 14:20:16 | 37.73 | 32.83 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:17 | 38.06 | 33.16 | 1,007 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:17 | 38.39 | 33.49 | 1,007 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:17 | 38.71 | 33.81 | 1,006 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:18 | 39.04 | 34.14 | 1,007 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:18 | 39.37 | 34.47 | 1,007 | 0.54 | 0.17 | 55.0 |
| 5/3/2015 14:20:18 | 39.70 | 34.80 | 1,010 | 0.54 | 0.17 | 55.2 |
| 5/3/2015 14:20:19 | 40.03 | 35.13 | 1,012 | 0.54 | 0.17 | 55.4 |
| 5/3/2015 14:20:19 | 40.35 | 35.45 | 1,012 | 0.54 | 0.17 | 55.4 |
| 5/3/2015 14:20:19 | 40.68 | 35.78 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 14:20:20 | 41.01 | 36.11 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/3/2015 14:20:20 | 41.34 | 36.44 | 1,003 | 0.54 | 0.17 | 54.8 |
| 5/3/2015 14:20:21 | 41.67 | 36.77 | 1,003 | 0.54 | 0.17 | 54.8 |
| 5/3/2015 14:20:21 | 41.99 | 37.09 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:21 | 42.32 | 37.42 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:22 | 42.65 | 37.75 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:22 | 42.98 | 38.08 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:22 | 43.31 | 38.41 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:23 | 43.64 | 38.74 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:23 | 43.96 | 39.06 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 14:20:23 | 44.29 | 39.39 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 14:20:24 | 44.62 | 39.72 | 995 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 14:20:24 | 44.95 | 40.05 | 989 | 0.54 | 0.17 | 54.1 |
| 5/3/2015 14:20:24 | 45.28 | 40.38 | 998 | 0.54 | 0.17 | 54.6 |
| 5/3/2015 14:20:25 | 45.60 | 40.70 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 14:20:26 | 45.93 | 41.03 | 997 | 0.54 | 0.17 | 54.5 |
| 5/3/2015 14:20:26 | 46.26 | 41.36 | 1,003 | 0.54 | 0.17 | 54.9 |
| 5/3/2015 14:20:26 | 46.59 | 41.69 | 994 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 14:20:27 | 46.92 | 42.02 | 994 | 0.54 | 0.17 | 54.4 |
| 5/3/2015 14:20:27 | 47.24 | 42.34 | 1,000 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:27 | 47.57 | 42.67 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:28 | 47.90 | 43.00 | 1,001 | 0.54 | 0.17 | 54.7 |
| 5/3/2015 14:20:28 | 48.23 | 43.33 | 992 | 0.54 | 0.17 | 54.2 |
| 5/3/2015 14:20:28 | 48.56 | 43.66 | 992 | 0.54 | 0.17 | 54.2 |
| 5/3/2015 14:20:29 | 48.88 | 43.98 | 992 | 0.54 | 0.17 | 54.2 |
| 5/3/2015 14:20:29 | 49.21 | 44.31 | 986 | 0.54 | 0.17 | 53.9 |
| 5/3/2015 14:20:29 | 49.54 | 44.64 | 993 | 0.54 | 0.17 | 54.3 |
| 5/3/2015 14:20:30 | 49.87 | 44.97 | 980 | 0.54 | 0.17 | 53.6 |
| 5/3/2015 14:20:43 | 50.20 | 45.30 | 3 | 0.54 | 0.17 | 0.2 |
| 5/3/2015 14:20:47 | 50.53 | 45.63 | 49 | 0.54 | 0.17 | 2.7 |
| 5/3/2015 14:20:52 | 50.85 | 45.95 | 99 | 0.54 | 0.17 | 5.4 |
| 5/3/2015 14:20:55 | 51.18 | 46.28 | 110 | 0.54 | 0.17 | 6.0 |
| 5/3/2015 14:20:59 | 51.51 | 46.61 | 79 | 0.54 | 0.17 | 4.3 |
| 5/3/2015 14:21:02 | 51.84 | 46.94 | 131 | 0.54 | 0.17 | 7.2 |
| 5/3/2015 14:21:06 | 52.17 | 47.27 | 90 | 0.54 | 0.17 | 4.9 |
| 5/3/2015 14:21:19 | 52.49 | 47.59 | 23 | 0.54 | 0.17 | 1.3 |
| 5/3/2015 14:21:33 | 52.82 | 47.92 | 29 | 0.54 | 0.17 | 1.6 |
| 5/3/2015 14:21:46 | 53.15 | 48.25 | 26 | 0.54 | 0.17 | 1.4 |
| 5/3/2015 14:22:05 | 53.48 | 48.58 | 26 | 0.54 | 0.17 | 1.4 |

## P97 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:18:45

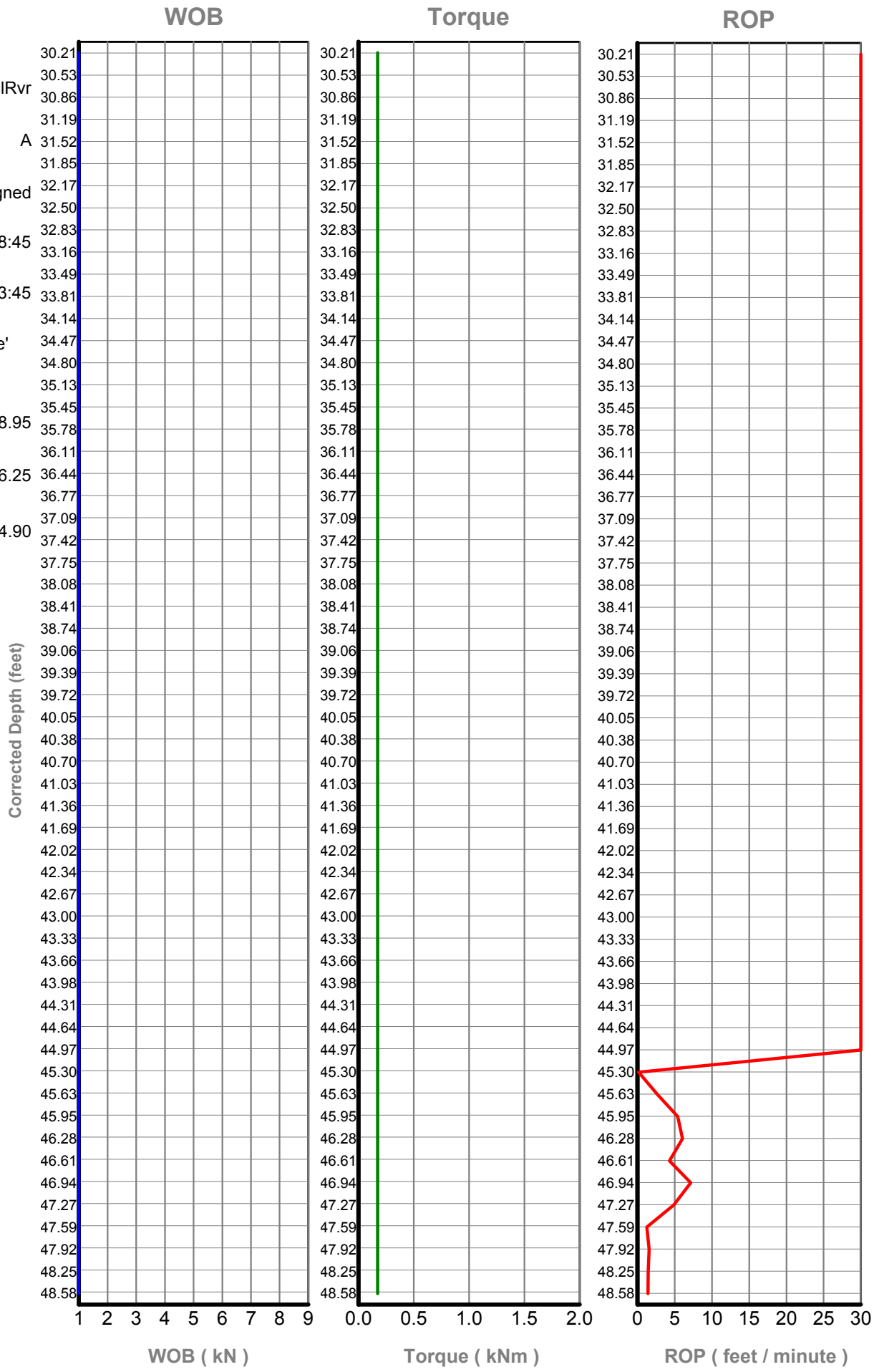
**End Date:**
5/3/2015 14:23:45

**Operator Note:**
'4.9 5.4 a Auto Complete'

**Northing:**
349,008.95

**Easting:**
224,506.25

**Tide (feet):**
4.90



## Hole: P98 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:20:00 | 35.11 | 30.21 | 1,365 | 0.33 | 0.41 | 74.6 |
| 5/3/2015 14:20:00 | 35.43 | 30.53 | 1,362 | 0.34 | 0.39 | 74.5 |
| 5/3/2015 14:20:01 | 35.76 | 30.86 | 1,362 | 0.34 | 0.39 | 74.5 |
| 5/3/2015 14:20:01 | 36.09 | 31.19 | 1,345 | 0.34 | 0.40 | 73.6 |
| 5/3/2015 14:20:01 | 36.42 | 31.52 | 1,345 | 0.34 | 0.40 | 73.6 |
| 5/3/2015 14:20:01 | 36.75 | 31.85 | 1,311 | 0.33 | 0.40 | 71.7 |
| 5/3/2015 14:20:01 | 37.07 | 32.17 | 1,311 | 0.33 | 0.40 | 71.7 |
| 5/3/2015 14:20:02 | 37.40 | 32.50 | 1,311 | 0.33 | 0.42 | 71.7 |
| 5/3/2015 14:20:02 | 37.73 | 32.83 | 1,311 | 0.33 | 0.42 | 71.7 |
| 5/3/2015 14:20:02 | 38.06 | 33.16 | 1,323 | 0.34 | 0.41 | 72.3 |
| 5/3/2015 14:20:03 | 38.39 | 33.49 | 1,323 | 0.34 | 0.41 | 72.3 |
| 5/3/2015 14:20:03 | 38.71 | 33.81 | 1,325 | 0.33 | 0.41 | 72.5 |
| 5/3/2015 14:20:03 | 39.04 | 34.14 | 1,325 | 0.33 | 0.41 | 72.5 |
| 5/3/2015 14:20:03 | 39.37 | 34.47 | 1,334 | 0.34 | 0.39 | 72.9 |
| 5/3/2015 14:20:04 | 39.70 | 34.80 | 1,334 | 0.34 | 0.39 | 72.9 |
| 5/3/2015 14:20:04 | 40.03 | 35.13 | 1,341 | 0.33 | 0.40 | 73.3 |
| 5/3/2015 14:20:04 | 40.35 | 35.45 | 1,341 | 0.33 | 0.40 | 73.3 |
| 5/3/2015 14:20:04 | 40.68 | 35.78 | 1,351 | 0.33 | 0.40 | 73.9 |
| 5/3/2015 14:20:05 | 41.01 | 36.11 | 1,351 | 0.33 | 0.40 | 73.9 |
| 5/3/2015 14:20:05 | 41.34 | 36.44 | 1,336 | 0.34 | 0.41 | 73.1 |
| 5/3/2015 14:20:05 | 41.67 | 36.77 | 1,336 | 0.34 | 0.41 | 73.1 |
| 5/3/2015 14:20:05 | 41.99 | 37.09 | 1,348 | 0.27 | 0.37 | 73.7 |
| 5/3/2015 14:20:06 | 42.32 | 37.42 | 1,348 | 0.27 | 0.37 | 73.7 |
| 5/3/2015 14:20:05 | 42.65 | 37.75 | 1,336 | 0.27 | 0.38 | 73.1 |
| 5/3/2015 14:20:06 | 42.98 | 38.08 | 1,336 | 0.27 | 0.38 | 73.1 |
| 5/3/2015 14:20:06 | 43.31 | 38.41 | 1,353 | 0.27 | 0.37 | 74.0 |
| 5/3/2015 14:20:07 | 43.64 | 38.74 | 1,353 | 0.27 | 0.37 | 74.0 |
| 5/3/2015 14:20:07 | 43.96 | 39.06 | 1,353 | 0.29 | 0.39 | 74.0 |
| 5/3/2015 14:20:07 | 44.29 | 39.39 | 1,353 | 0.29 | 0.39 | 74.0 |
| 5/3/2015 14:20:07 | 44.62 | 39.72 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:20:08 | 44.95 | 40.05 | 1,362 | 0.26 | 0.37 | 74.5 |
| 5/3/2015 14:20:08 | 45.28 | 40.38 | 1,354 | 0.26 | 0.37 | 74.0 |
| 5/3/2015 14:20:08 | 45.60 | 40.70 | 1,354 | 0.26 | 0.37 | 74.0 |
| 5/3/2015 14:20:08 | 45.93 | 41.03 | 1,360 | 0.27 | 0.38 | 74.3 |
| 5/3/2015 14:20:09 | 46.26 | 41.36 | 1,360 | 0.27 | 0.38 | 74.3 |
| 5/3/2015 14:20:09 | 46.59 | 41.69 | 1,348 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 14:20:09 | 46.92 | 42.02 | 1,348 | 0.26 | 0.37 | 73.7 |
| 5/3/2015 14:20:09 | 47.24 | 42.34 | 1,363 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 14:20:09 | 47.57 | 42.67 | 1,363 | 0.26 | 0.38 | 74.6 |
| 5/3/2015 14:20:10 | 47.90 | 43.00 | 1,345 | 0.26 | 0.40 | 73.5 |
| 5/3/2015 14:20:10 | 48.23 | 43.33 | 1,345 | 0.26 | 0.40 | 73.5 |
| 5/3/2015 14:20:10 | 48.56 | 43.66 | 1,348 | 0.27 | 0.39 | 73.7 |
| 5/3/2015 14:20:11 | 48.88 | 43.98 | 1,348 | 0.27 | 0.39 | 73.7 |
| 5/3/2015 14:20:11 | 49.21 | 44.31 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 14:20:12 | 49.54 | 44.64 | 1,353 | 0.25 | 0.37 | 74.0 |
| 5/3/2015 14:20:12 | 49.87 | 44.97 | 1,359 | 0.24 | 0.44 | 74.3 |
| 5/3/2015 14:20:23 | 50.20 | 45.30 | 9 | 3.24 | 0.45 | 0.5 |
| 5/3/2015 14:20:24 | 50.53 | 45.63 | 171 | 3.07 | 0.47 | 9.4 |
| 5/3/2015 14:20:29 | 50.85 | 45.95 | 49 | 2.82 | 0.48 | 2.7 |
| 5/3/2015 14:20:32 | 51.18 | 46.28 | 92 | 3.87 | 0.49 | 5.0 |
| 5/3/2015 14:20:35 | 51.51 | 46.61 | 150 | 3.55 | 0.47 | 8.2 |
| 5/3/2015 14:20:39 | 51.84 | 46.94 | 75 | 3.70 | 0.48 | 4.1 |
| 5/3/2015 14:20:47 | 52.17 | 47.27 | 24 | 2.51 | 0.48 | 1.3 |
| 5/3/2015 14:20:58 | 52.49 | 47.59 | 38 | 3.06 | 0.48 | 2.1 |
| 5/3/2015 14:21:01 | 52.82 | 47.92 | 108 | 3.41 | 0.48 | 5.9 |
| 5/3/2015 14:21:05 | 53.15 | 48.25 | 98 | 3.21 | 0.48 | 5.4 |
| 5/3/2015 14:21:09 | 53.48 | 48.58 | 89 | 3.09 | 0.49 | 4.9 |
| 5/3/2015 14:21:13 | 53.81 | 48.91 | 79 | 3.69 | 0.47 | 4.3 |
| 5/3/2015 14:21:17 | 54.13 | 49.23 | 95 | 3.18 | 0.48 | 5.2 |
| 5/3/2015 14:21:21 | 54.46 | 49.56 | 84 | 2.82 | 0.48 | 4.6 |
| 5/3/2015 14:21:25 | 54.79 | 49.89 | 101 | 2.95 | 0.48 | 5.5 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/3/2015 | 14:21:29 | 55.12 | 50.22 | 78 | 3.11 | 0.48 | 4.3 |
| 5/3/2015 | 14:21:35 | 55.45 | 50.55 | 69 | 3.35 | 0.48 | 3.8 |
| 5/3/2015 | 14:21:39 | 55.77 | 50.87 | 98 | 3.48 | 0.48 | 5.4 |
| 5/3/2015 | 14:21:54 | 56.10 | 51.20 | 0 | 3.54 | 0.48 | 0.0 |
| 5/3/2015 | 14:21:59 | 56.43 | 51.53 | 98 | 3.91 | 0.47 | 5.4 |
| 5/3/2015 | 14:22:03 | 56.76 | 51.86 | 107 | 3.02 | 0.48 | 5.9 |
| 5/3/2015 | 14:22:07 | 57.09 | 52.19 | 82 | 3.07 | 0.48 | 4.5 |
| 5/3/2015 | 14:22:11 | 57.41 | 52.51 | 90 | 3.64 | 0.48 | 4.9 |
| 5/3/2015 | 14:22:19 | 57.74 | 52.84 | 29 | 2.91 | 0.49 | 1.6 |
| 5/3/2015 | 14:22:26 | 58.07 | 53.17 | 66 | 3.25 | 0.49 | 3.6 |
| 5/3/2015 | 14:22:35 | 58.40 | 53.50 | 31 | 2.52 | 0.49 | 1.7 |
| 5/3/2015 | 14:22:43 | 58.57 | 53.67 | 21 | 2.26 | 0.49 | 1.2 |

## P98 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:18:25

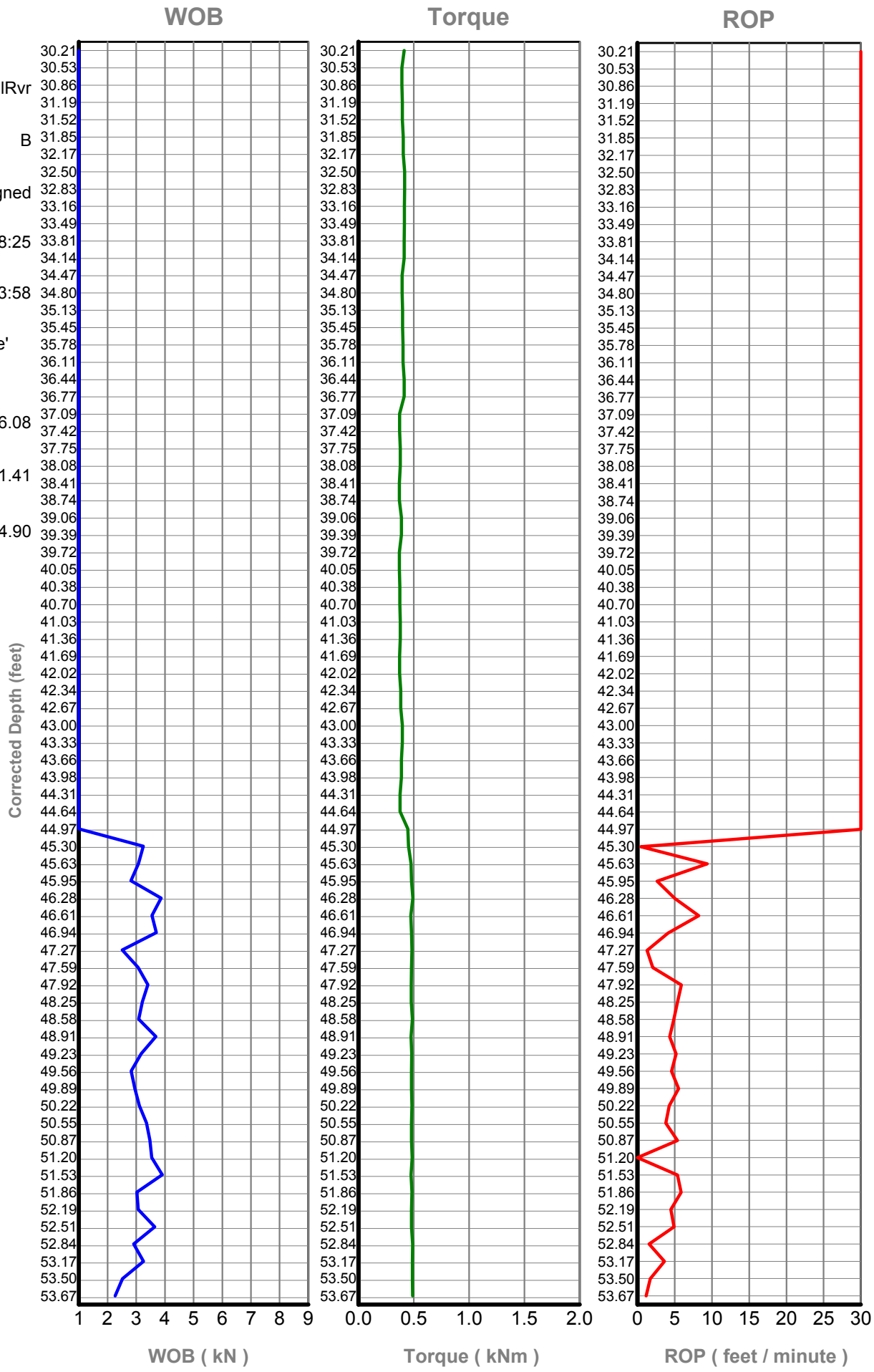
**End Date:**
5/3/2015 14:23:58

**Operator Note:**
'4.9 5.2 b Auto Complete'

**Northing:**
349,046.08

**Easting:**
224,571.41

**Tide (feet):**
4.90



## Hole: P99 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/3/2015 14:19:22 | 35.11 | 30.21 | 1,149 | 1.14 | 0.29 | 62.8 |
| 5/3/2015 14:19:22 | 35.43 | 30.53 | 1,163 | 1.14 | 0.29 | 63.6 |
| 5/3/2015 14:19:23 | 35.76 | 30.86 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:19:23 | 36.09 | 31.19 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:19:23 | 36.42 | 31.52 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:19:24 | 36.75 | 31.85 | 1,154 | 1.14 | 0.29 | 63.1 |
| 5/3/2015 14:19:24 | 37.07 | 32.17 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:19:24 | 37.40 | 32.50 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:19:24 | 37.73 | 32.83 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 14:19:25 | 38.06 | 33.16 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 14:19:25 | 38.39 | 33.49 | 1,192 | 1.14 | 0.29 | 65.2 |
| 5/3/2015 14:19:25 | 38.71 | 33.81 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:19:26 | 39.04 | 34.14 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:19:26 | 39.37 | 34.47 | 1,177 | 1.14 | 0.29 | 64.3 |
| 5/3/2015 14:19:26 | 39.70 | 34.80 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:27 | 40.03 | 35.13 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:27 | 40.35 | 35.45 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:27 | 40.68 | 35.78 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:27 | 41.01 | 36.11 | 1,165 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 14:19:28 | 41.34 | 36.44 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 14:19:28 | 41.67 | 36.77 | 1,166 | 1.14 | 0.29 | 63.7 |
| 5/3/2015 14:19:28 | 41.99 | 37.09 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:29 | 42.32 | 37.42 | 1,161 | 1.14 | 0.29 | 63.5 |
| 5/3/2015 14:19:29 | 42.65 | 37.75 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 14:19:29 | 42.98 | 38.08 | 1,188 | 1.14 | 0.29 | 65.0 |
| 5/3/2015 14:19:29 | 43.31 | 38.41 | 1,186 | 1.14 | 0.29 | 64.8 |
| 5/3/2015 14:19:30 | 43.64 | 38.74 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 14:19:30 | 43.96 | 39.06 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 14:19:30 | 44.29 | 39.39 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 14:19:31 | 44.62 | 39.72 | 1,152 | 1.14 | 0.29 | 63.0 |
| 5/3/2015 14:19:31 | 44.95 | 40.05 | 1,168 | 1.14 | 0.29 | 63.9 |
| 5/3/2015 14:19:32 | 45.28 | 40.38 | 1,149 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 14:19:32 | 45.60 | 40.70 | 1,149 | 1.14 | 0.29 | 62.9 |
| 5/3/2015 14:19:32 | 45.93 | 41.03 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 14:19:33 | 46.26 | 41.36 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 14:19:33 | 46.59 | 41.69 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 14:19:33 | 46.92 | 42.02 | 1,132 | 1.14 | 0.29 | 61.9 |
| 5/3/2015 14:19:33 | 47.24 | 42.34 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 14:19:34 | 47.57 | 42.67 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 14:19:34 | 47.90 | 43.00 | 1,142 | 1.14 | 0.29 | 62.4 |
| 5/3/2015 14:19:34 | 48.23 | 43.33 | 1,173 | 1.14 | 0.29 | 64.2 |
| 5/3/2015 14:19:49 | 48.56 | 43.66 | 0 | 1.14 | 0.29 | 0.0 |
| 5/3/2015 14:19:50 | 48.88 | 43.98 | 136 | 1.14 | 0.29 | 7.4 |
| 5/3/2015 14:19:50 | 49.21 | 44.31 | 215 | 1.14 | 0.29 | 11.8 |
| 5/3/2015 14:20:32 | 49.54 | 44.64 | 6 | 1.14 | 0.29 | 0.3 |
| 5/3/2015 14:21:05 | 49.87 | 44.97 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 14:21:22 | 50.20 | 45.30 | 23 | 1.14 | 0.29 | 1.3 |
| 5/3/2015 14:21:38 | 50.53 | 45.63 | 26 | 1.14 | 0.29 | 1.4 |
| 5/3/2015 14:21:43 | 50.64 | 45.74 | 26 | 1.14 | 0.29 | 1.4 |

## P99 - Summary

**Pattern Number:**
AreaP_Lane7-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/3/2015 14:18:19

**End Date:**
5/3/2015 14:23:04

**Operator Note:**
'4.9 5.2 c Auto Complete'

**Northing:**
349,083.20

**Easting:**
224,636.60

**Tide (feet):**
4.90



## Hole: Q1 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:23:51 | 33.46 | 30.06 | 1,130 | 1.53 | 0.22 | 61.8 |
| 5/4/2015 4:23:51 | 33.79 | 30.39 | 1,136 | 1.53 | 0.22 | 62.1 |
| 5/4/2015 4:23:52 | 34.12 | 30.72 | 1,136 | 1.53 | 0.22 | 62.1 |
| 5/4/2015 4:23:52 | 34.45 | 31.05 | 1,139 | 1.54 | 0.22 | 62.3 |
| 5/4/2015 4:23:52 | 34.78 | 31.38 | 1,133 | 1.55 | 0.22 | 62.0 |
| 5/4/2015 4:23:53 | 35.11 | 31.71 | 1,133 | 1.55 | 0.22 | 62.0 |
| 5/4/2015 4:23:53 | 35.43 | 32.03 | 1,133 | 1.55 | 0.22 | 62.0 |
| 5/4/2015 4:23:54 | 35.76 | 32.36 | 1,133 | 1.55 | 0.22 | 62.0 |
| 5/4/2015 4:23:54 | 36.09 | 32.69 | 1,124 | 1.55 | 0.22 | 61.4 |
| 5/4/2015 4:23:54 | 36.42 | 33.02 | 1,131 | 1.54 | 0.22 | 61.8 |
| 5/4/2015 4:23:55 | 36.75 | 33.35 | 1,131 | 1.54 | 0.22 | 61.8 |
| 5/4/2015 4:23:55 | 37.07 | 33.67 | 1,135 | 1.53 | 0.22 | 62.0 |
| 5/4/2015 4:23:55 | 37.40 | 34.00 | 1,128 | 1.55 | 0.22 | 61.7 |
| 5/4/2015 4:23:56 | 37.73 | 34.33 | 1,128 | 1.55 | 0.22 | 61.7 |
| 5/4/2015 4:23:56 | 38.06 | 34.66 | 1,128 | 1.56 | 0.22 | 61.7 |
| 5/4/2015 4:23:56 | 38.39 | 34.99 | 1,128 | 1.56 | 0.22 | 61.7 |
| 5/4/2015 4:23:56 | 38.71 | 35.31 | 1,138 | 1.52 | 0.22 | 62.2 |
| 5/4/2015 4:23:57 | 39.04 | 35.64 | 1,122 | 1.53 | 0.22 | 61.3 |
| 5/4/2015 4:23:57 | 39.37 | 35.97 | 1,122 | 1.53 | 0.22 | 61.3 |
| 5/4/2015 4:23:57 | 39.70 | 36.30 | 1,112 | 1.53 | 0.22 | 60.8 |
| 5/4/2015 4:23:58 | 40.03 | 36.63 | 1,112 | 1.53 | 0.22 | 60.8 |
| 5/4/2015 4:23:58 | 40.35 | 36.95 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:23:58 | 40.68 | 37.28 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:23:59 | 41.01 | 37.61 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:23:59 | 41.34 | 37.94 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:23:59 | 41.67 | 38.27 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:23:59 | 41.99 | 38.59 | 1,119 | 1.55 | 0.22 | 61.2 |
| 5/4/2015 4:24:00 | 42.32 | 38.92 | 1,119 | 1.53 | 0.22 | 61.2 |
| 5/4/2015 4:24:00 | 42.65 | 39.25 | 1,119 | 1.53 | 0.22 | 61.2 |
| 5/4/2015 4:24:53 | 42.98 | 39.58 | 0 | 1.72 | 0.75 | 0.0 |
| 5/4/2015 4:24:54 | 43.31 | 39.91 | 117 | 1.79 | 0.65 | 6.4 |
| 5/4/2015 4:24:54 | 43.64 | 40.24 | 117 | 1.79 | 0.65 | 6.4 |
| 5/4/2015 4:24:54 | 43.96 | 40.56 | 346 | 2.27 | 1.69 | 18.9 |
| 5/4/2015 4:25:03 | 44.29 | 40.89 | 21 | 2.71 | 1.17 | 1.1 |
| 5/4/2015 4:25:07 | 44.62 | 41.22 | 15 | 3.05 | 1.65 | 0.8 |
| 5/4/2015 4:25:09 | 44.95 | 41.55 | 182 | 2.95 | 1.93 | 10.0 |
| 5/4/2015 4:25:11 | 45.28 | 41.88 | 159 | 2.87 | 1.38 | 8.7 |
| 5/4/2015 4:25:15 | 45.60 | 42.20 | 61 | 3.03 | 1.64 | 3.3 |
| 5/4/2015 4:25:33 | 45.93 | 42.53 | 25 | 1.91 | 0.87 | 1.4 |
| 5/4/2015 4:25:36 | 46.26 | 42.86 | 204 | 1.57 | 1.15 | 11.1 |
| 5/4/2015 4:25:37 | 46.59 | 43.19 | 178 | 1.46 | 1.05 | 9.7 |
| 5/4/2015 4:25:39 | 46.92 | 43.52 | 245 | 0.48 | 1.37 | 13.4 |
| 5/4/2015 4:25:40 | 47.24 | 43.84 | 301 | 0.33 | 1.04 | 16.5 |
| 5/4/2015 4:25:41 | 47.57 | 44.17 | 328 | 0.33 | 1.07 | 17.9 |
| 5/4/2015 4:25:42 | 47.90 | 44.50 | 405 | 1.65 | 0.85 | 22.1 |
| 5/4/2015 4:25:43 | 48.23 | 44.83 | 397 | 2.01 | 1.09 | 21.7 |
| 5/4/2015 4:25:43 | 48.56 | 45.16 | 444 | 1.00 | 0.72 | 24.3 |
| 5/4/2015 4:25:45 | 48.88 | 45.48 | 315 | 2.06 | 0.98 | 17.2 |
| 5/4/2015 4:25:47 | 49.21 | 45.81 | 228 | 2.33 | 1.52 | 12.5 |
| 5/4/2015 4:25:49 | 49.54 | 46.14 | 204 | 2.33 | 1.48 | 11.1 |
| 5/4/2015 4:25:52 | 49.87 | 46.47 | 125 | 2.35 | 1.22 | 6.8 |
| 5/4/2015 4:25:55 | 50.20 | 46.80 | 110 | 2.46 | 1.24 | 6.0 |
| 5/4/2015 4:25:58 | 50.53 | 47.13 | 127 | 2.44 | 1.55 | 6.9 |
| 5/4/2015 4:26:01 | 50.85 | 47.45 | 119 | 2.41 | 1.47 | 6.5 |
| 5/4/2015 4:26:05 | 51.18 | 47.78 | 87 | 2.08 | 1.31 | 4.7 |
| 5/4/2015 4:26:10 | 51.51 | 48.11 | 72 | 2.46 | 1.61 | 3.9 |
| 5/4/2015 4:26:16 | 51.84 | 48.44 | 49 | 2.58 | 1.37 | 2.7 |
| 5/4/2015 4:26:26 | 52.17 | 48.77 | 32 | 2.46 | 1.41 | 1.7 |
| 5/4/2015 4:26:39 | 52.49 | 49.09 | 29 | 2.44 | 1.24 | 1.6 |
| 5/4/2015 4:26:51 | 52.82 | 49.42 | 29 | 2.44 | 1.15 | 1.6 |

## Q1 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:19:44

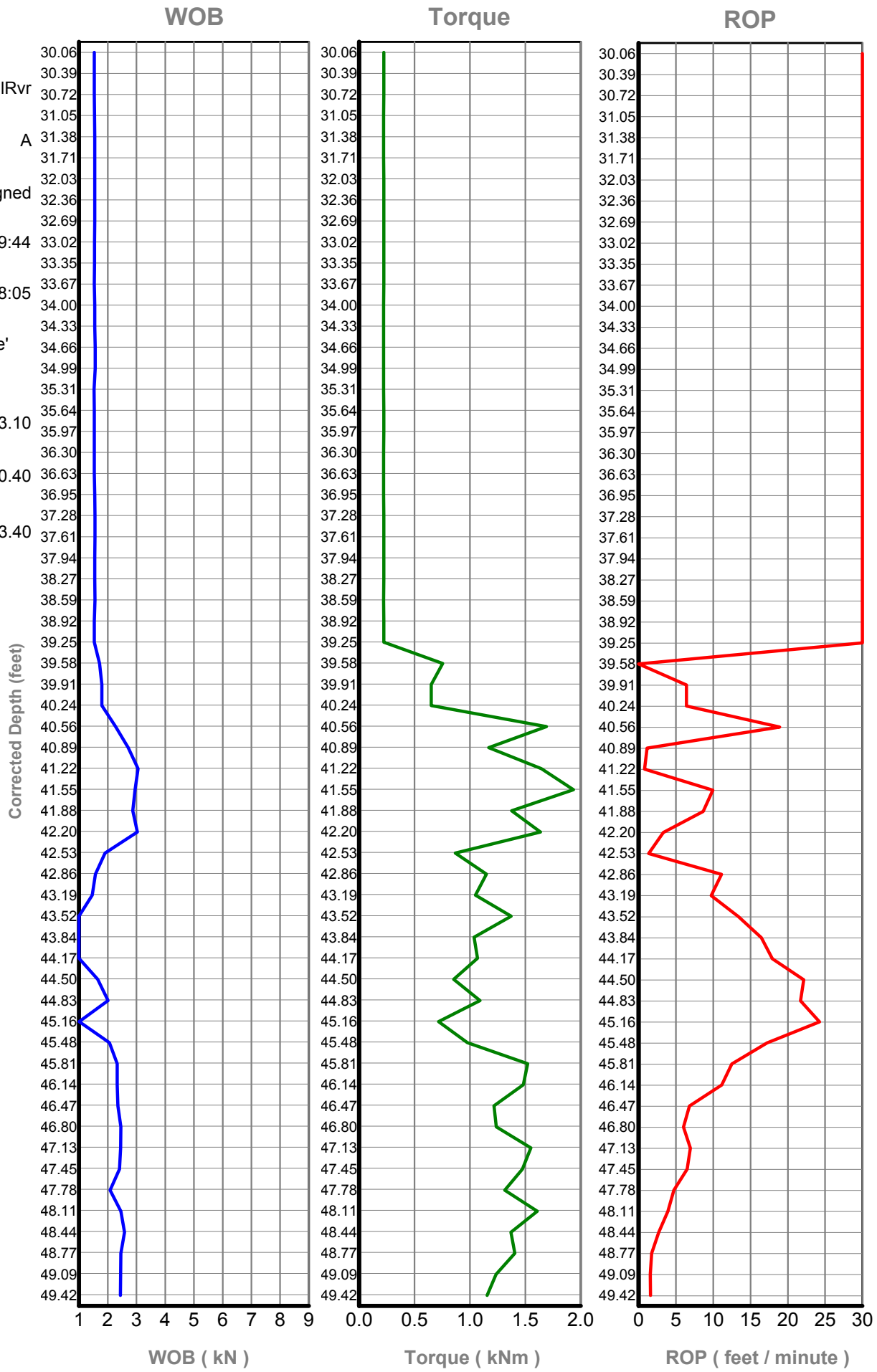
**End Date:**
5/4/2015 4:28:05

**Operator Note:**
'3.4 3.5 a Auto Complete'

**Northing:**
348,603.10

**Easting:**
223,480.40

**Tide (feet):**
3.40



## Hole: Q10 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:38:44 | 34.45 | 30.15 | 1,311 | 1.73 | 0.75 | 71.7 |
| 5/4/2015 3:38:44 | 34.78 | 30.48 | 1,311 | 1.75 | 0.78 | 71.7 |
| 5/4/2015 3:38:45 | 35.11 | 30.81 | 1,311 | 1.75 | 0.78 | 71.7 |
| 5/4/2015 3:38:44 | 35.43 | 31.13 | 1,343 | 1.76 | 0.76 | 73.5 |
| 5/4/2015 3:38:45 | 35.76 | 31.46 | 1,343 | 1.76 | 0.76 | 73.5 |
| 5/4/2015 3:38:45 | 36.09 | 31.79 | 1,343 | 1.78 | 0.77 | 73.5 |
| 5/4/2015 3:38:46 | 36.42 | 32.12 | 1,343 | 1.78 | 0.77 | 73.5 |
| 5/4/2015 3:38:45 | 36.75 | 32.45 | 1,329 | 1.75 | 0.79 | 72.7 |
| 5/4/2015 3:38:46 | 37.07 | 32.77 | 1,329 | 1.75 | 0.79 | 72.7 |
| 5/4/2015 3:38:46 | 37.40 | 33.10 | 1,329 | 1.77 | 0.74 | 72.7 |
| 5/4/2015 3:38:47 | 37.73 | 33.43 | 1,329 | 1.77 | 0.74 | 72.7 |
| 5/4/2015 3:38:47 | 38.06 | 33.76 | 1,333 | 1.72 | 0.77 | 72.9 |
| 5/4/2015 3:38:47 | 38.39 | 34.09 | 1,333 | 1.72 | 0.77 | 72.9 |
| 5/4/2015 3:38:47 | 38.71 | 34.41 | 1,319 | 1.76 | 0.75 | 72.1 |
| 5/4/2015 3:38:48 | 39.04 | 34.74 | 1,319 | 1.76 | 0.75 | 72.1 |
| 5/4/2015 3:38:48 | 39.37 | 35.07 | 1,351 | 1.78 | 0.76 | 73.9 |
| 5/4/2015 3:38:48 | 39.70 | 35.40 | 1,351 | 1.78 | 0.76 | 73.9 |
| 5/4/2015 3:38:48 | 40.03 | 35.73 | 1,351 | 1.76 | 0.76 | 73.9 |
| 5/4/2015 3:38:49 | 40.35 | 36.05 | 1,351 | 1.76 | 0.76 | 73.9 |
| 5/4/2015 3:38:49 | 40.68 | 36.38 | 1,321 | 1.76 | 0.80 | 72.3 |
| 5/4/2015 3:38:49 | 41.01 | 36.71 | 1,321 | 1.76 | 0.80 | 72.3 |
| 5/4/2015 3:38:49 | 41.34 | 37.04 | 1,321 | 1.79 | 0.79 | 72.3 |
| 5/4/2015 3:38:50 | 41.67 | 37.37 | 1,321 | 1.79 | 0.79 | 72.3 |
| 5/4/2015 3:38:50 | 41.99 | 37.69 | 1,317 | 1.77 | 0.75 | 72.0 |
| 5/4/2015 3:38:50 | 42.32 | 38.02 | 1,317 | 1.77 | 0.75 | 72.0 |
| 5/4/2015 3:38:50 | 42.65 | 38.35 | 1,333 | 1.76 | 0.77 | 72.9 |
| 5/4/2015 3:38:51 | 42.98 | 38.68 | 1,333 | 1.76 | 0.77 | 72.9 |
| 5/4/2015 3:38:51 | 43.31 | 39.01 | 1,331 | 1.74 | 0.73 | 72.8 |
| 5/4/2015 3:38:51 | 43.64 | 39.34 | 1,331 | 1.74 | 0.73 | 72.8 |
| 5/4/2015 3:38:51 | 43.96 | 39.66 | 1,312 | 1.75 | 0.77 | 71.8 |
| 5/4/2015 3:38:52 | 44.29 | 39.99 | 1,312 | 1.75 | 0.77 | 71.8 |
| 5/4/2015 3:38:52 | 44.62 | 40.32 | 1,342 | 1.74 | 0.81 | 73.4 |
| 5/4/2015 3:38:52 | 44.95 | 40.65 | 1,342 | 1.74 | 0.81 | 73.4 |
| 5/4/2015 3:38:52 | 45.28 | 40.98 | 1,313 | 1.74 | 0.78 | 71.8 |
| 5/4/2015 3:38:53 | 45.60 | 41.30 | 1,313 | 1.74 | 0.76 | 71.8 |
| 5/4/2015 3:38:53 | 45.93 | 41.63 | 1,313 | 1.74 | 0.76 | 71.8 |
| 5/4/2015 3:38:53 | 46.26 | 41.96 | 1,304 | 1.76 | 0.75 | 71.3 |
| 5/4/2015 3:38:54 | 46.59 | 42.29 | 1,304 | 1.76 | 0.75 | 71.3 |
| 5/4/2015 3:38:54 | 46.92 | 42.62 | 1,317 | 2.59 | 0.82 | 72.0 |
| 5/4/2015 3:39:06 | 47.24 | 42.94 | 24 | 2.75 | 1.55 | 1.3 |
| 5/4/2015 3:39:08 | 47.57 | 43.27 | 117 | 2.29 | 1.79 | 6.4 |
| 5/4/2015 3:40:19 | 47.90 | 43.60 | 0 | 2.36 | 1.60 | 0.0 |
| 5/4/2015 3:40:24 | 48.23 | 43.93 | 0 | 2.59 | 1.58 | 0.0 |
| 5/4/2015 3:40:27 | 48.56 | 44.26 | 112 | 2.67 | 1.44 | 6.1 |
| 5/4/2015 3:40:30 | 48.88 | 44.58 | 114 | 2.70 | 1.85 | 6.2 |
| 5/4/2015 3:40:34 | 49.21 | 44.91 | 98 | 2.78 | 1.36 | 5.4 |
| 5/4/2015 3:40:37 | 49.54 | 45.24 | 111 | 2.63 | 1.26 | 6.0 |
| 5/4/2015 3:40:40 | 49.87 | 45.57 | 127 | 2.73 | 1.54 | 7.0 |
| 5/4/2015 3:40:49 | 50.20 | 45.90 | 17 | 2.76 | 1.00 | 1.0 |
| 5/4/2015 3:41:03 | 50.53 | 46.23 | 23 | 2.82 | 1.04 | 1.3 |
| 5/4/2015 3:41:16 | 50.85 | 46.55 | 32 | 2.82 | 0.95 | 1.7 |
| 5/4/2015 3:41:24 | 51.09 | 46.79 | 32 | 2.75 | 1.03 | 1.7 |

## Q10 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:29:41

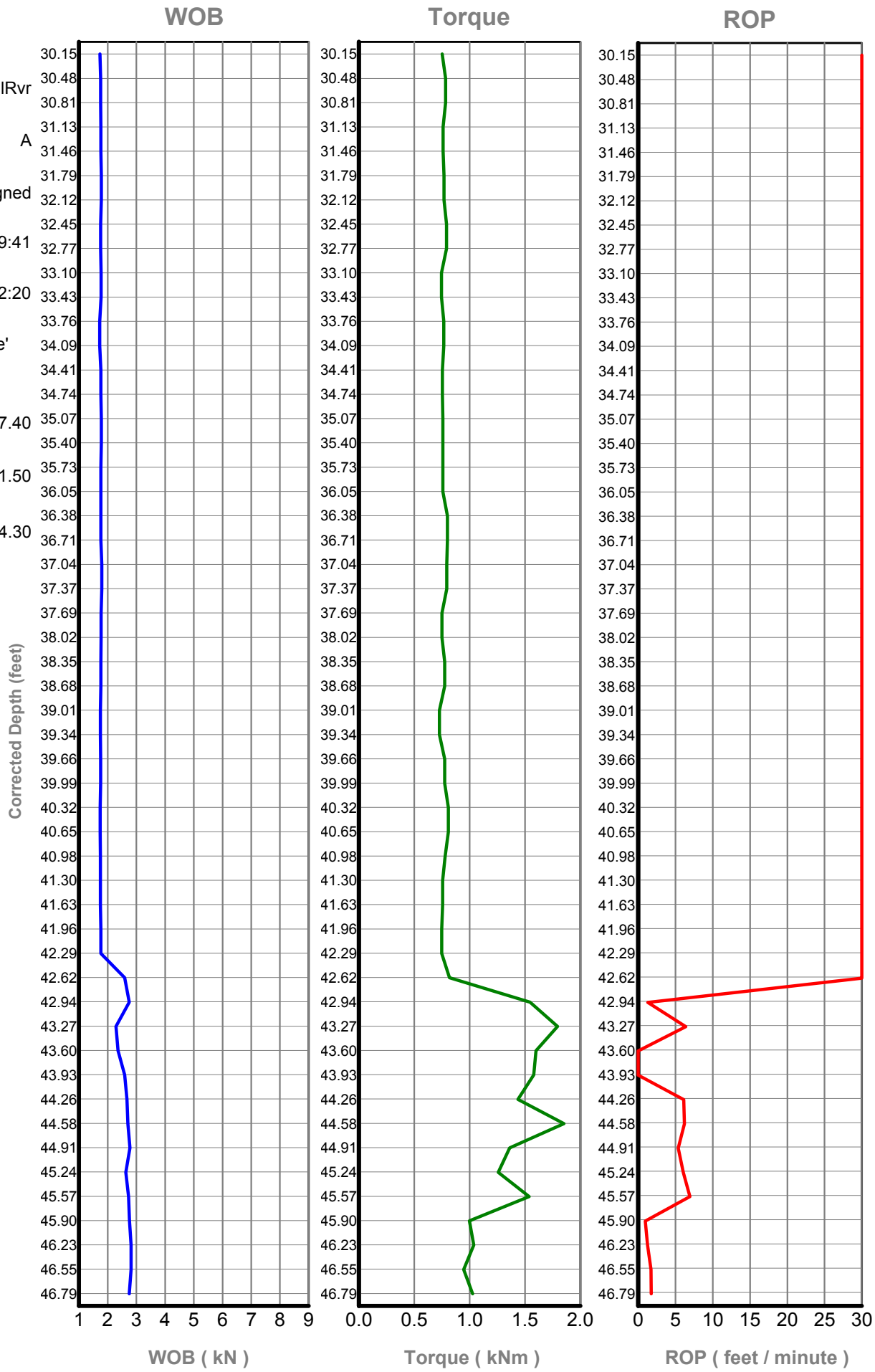
**End Date:**
5/4/2015 3:42:20

**Operator Note:**
'4.3 4.4 a Auto Complete'

**Northing:**
348,667.40

**Easting:**
223,721.50

**Tide (feet):**
4.30



## Hole: Q1000 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:19:32 | 32.81 | 30.31 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 5:19:32 | 33.14 | 30.64 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:33 | 33.46 | 30.96 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:33 | 33.79 | 31.29 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 5:19:33 | 34.12 | 31.62 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 5:19:33 | 34.45 | 31.95 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:34 | 34.78 | 32.28 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:34 | 35.11 | 32.61 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:34 | 35.43 | 32.93 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:35 | 35.76 | 33.26 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 5:19:35 | 36.09 | 33.59 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 5:19:35 | 36.42 | 33.92 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:19:36 | 36.75 | 34.25 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:19:37 | 37.07 | 34.57 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:19:37 | 37.40 | 34.90 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:37 | 37.73 | 35.23 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:37 | 38.06 | 35.56 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:38 | 38.39 | 35.89 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:38 | 38.71 | 36.21 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 5:19:38 | 39.04 | 36.54 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:19:39 | 39.37 | 36.87 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 5:19:39 | 39.70 | 37.20 | 1,081 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 5:19:39 | 40.03 | 37.53 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:40 | 40.35 | 37.85 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:40 | 40.68 | 38.18 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:40 | 41.01 | 38.51 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:41 | 41.34 | 38.84 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:41 | 41.67 | 39.17 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:19:41 | 41.99 | 39.49 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:42 | 42.32 | 39.82 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:42 | 42.65 | 40.15 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:42 | 42.98 | 40.48 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:19:43 | 43.31 | 40.81 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:19:43 | 43.64 | 41.14 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:19:43 | 43.96 | 41.46 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:19:44 | 44.29 | 41.79 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:19:44 | 44.62 | 42.12 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:19:44 | 44.95 | 42.45 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:19:44 | 45.28 | 42.78 | 1,082 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 5:19:45 | 45.60 | 43.10 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:19:45 | 45.93 | 43.43 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:19:45 | 46.26 | 43.76 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:19:57 | 46.59 | 44.09 | 50 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 5:20:00 | 46.92 | 44.42 | 158 | 1.14 | 0.29 | 8.7 |
| 5/4/2015 5:20:01 | 47.24 | 44.74 | 197 | 1.14 | 0.29 | 10.8 |
| 5/4/2015 5:20:16 | 47.57 | 45.07 | 3 | 1.14 | 0.29 | 0.1 |
| 5/4/2015 5:20:18 | 47.90 | 45.40 | 92 | 1.14 | 0.29 | 5.1 |
| 5/4/2015 5:20:19 | 48.23 | 45.73 | 243 | 1.14 | 0.29 | 13.3 |
| 5/4/2015 5:20:35 | 48.56 | 46.06 | 113 | 1.14 | 0.29 | 6.2 |
| 5/4/2015 5:21:17 | 48.88 | 46.38 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 5:21:21 | 49.21 | 46.71 | 101 | 1.14 | 0.29 | 5.5 |
| 5/4/2015 5:21:41 | 49.54 | 47.04 | 66 | 1.14 | 0.29 | 3.6 |
| 5/4/2015 5:22:12 | 49.87 | 47.37 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 5:22:15 | 50.20 | 47.70 | 119 | 1.14 | 0.29 | 6.5 |
| 5/4/2015 5:22:50 | 50.53 | 48.03 | 29 | 1.14 | 0.29 | 1.6 |
| 5/4/2015 5:22:56 | 50.85 | 48.35 | 111 | 1.14 | 0.29 | 6.0 |
| 5/4/2015 5:22:59 | 51.18 | 48.68 | 129 | 1.14 | 0.29 | 7.1 |
| 5/4/2015 5:23:17 | 51.51 | 49.01 | 32 | 1.14 | 0.29 | 1.8 |
| 5/4/2015 5:23:24 | 51.84 | 49.34 | 70 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 5:23:27 | 52.17 | 49.67 | 131 | 1.14 | 0.29 | 7.1 |
| 5/4/2015 5:23:52 | 52.49 | 49.99 | 3 | 1.14 | 0.29 | 0.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:23:57 | 52.82 | 50.32 | 102 | 1.14 | 0.29 | 5.6 |
| 5/4/2015 | 5:24:08 | 53.15 | 50.65 | 41 | 1.14 | 0.29 | 2.3 |
| 5/4/2015 | 5:24:14 | 53.48 | 50.98 | 81 | 1.14 | 0.29 | 4.5 |
| 5/4/2015 | 5:24:26 | 53.81 | 51.31 | 18 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 | 5:24:44 | 54.13 | 51.63 | 15 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 | 5:25:02 | 54.46 | 51.96 | 19 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 | 5:25:13 | 54.70 | 52.20 | 20 | 1.14 | 0.29 | 1.1 |

## Q1000 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 5:18:34

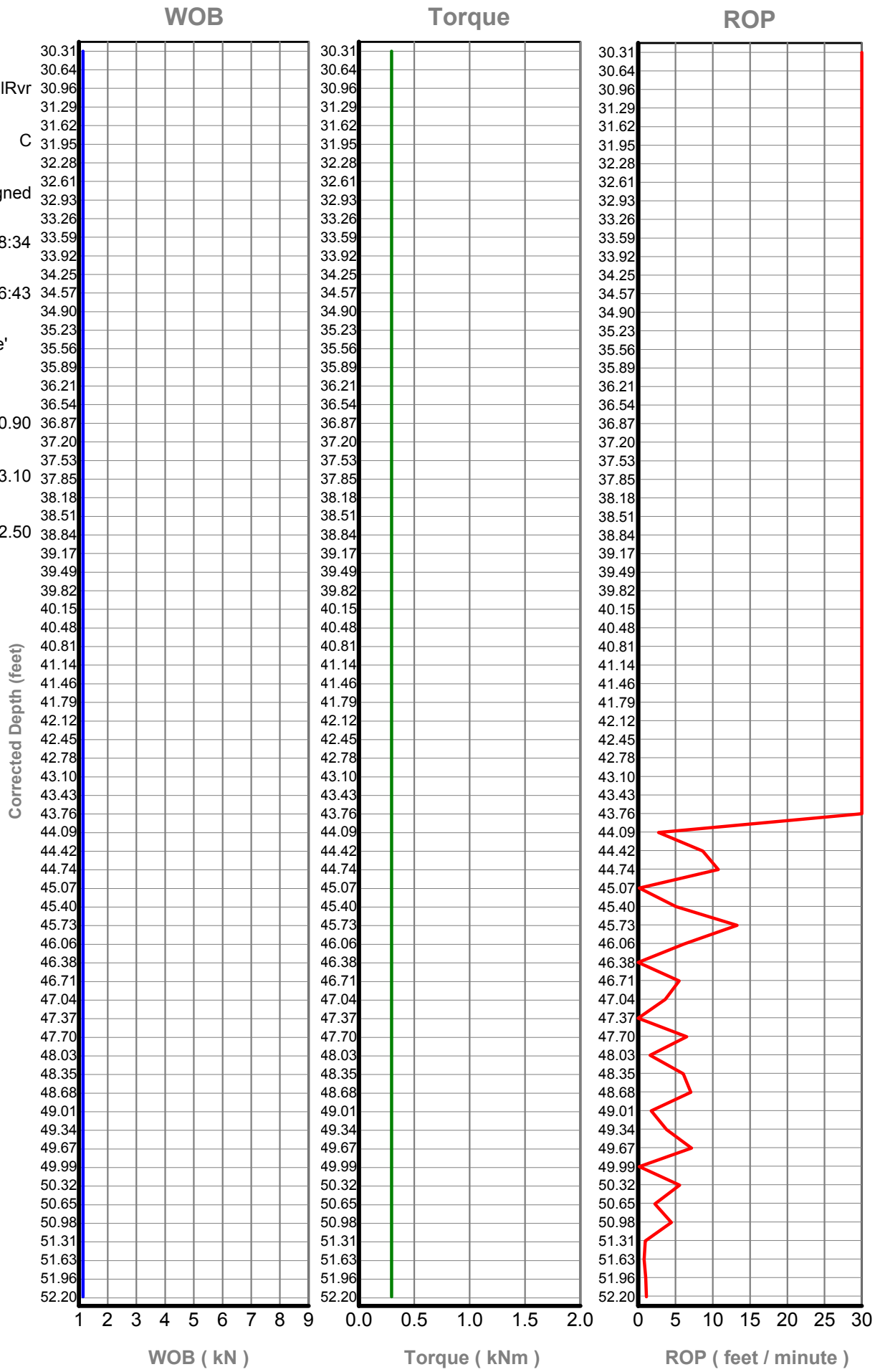
**End Date:**
5/4/2015 5:26:43

**Operator Note:**
'2.5 2.6 c Auto Complete'

**Northing:**
348,620.90

**Easting:**
223,923.10

**Tide (feet):**
2.50



## Hole: Q1001 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:21:20 | 32.81 | 30.31 | 1,172 | 0.32 | 0.37 | 64.1 |
| 5/4/2015 5:21:20 | 33.14 | 30.64 | 1,155 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:21 | 33.46 | 30.96 | 1,155 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:21 | 33.79 | 31.29 | 1,182 | 0.32 | 0.37 | 64.6 |
| 5/4/2015 5:21:21 | 34.12 | 31.62 | 1,157 | 0.32 | 0.37 | 63.2 |
| 5/4/2015 5:21:22 | 34.45 | 31.95 | 1,157 | 0.32 | 0.37 | 63.2 |
| 5/4/2015 5:21:22 | 34.78 | 32.28 | 1,157 | 0.33 | 0.38 | 63.2 |
| 5/4/2015 5:21:22 | 35.11 | 32.61 | 1,157 | 0.33 | 0.38 | 63.2 |
| 5/4/2015 5:21:22 | 35.43 | 32.93 | 1,162 | 0.32 | 0.37 | 63.5 |
| 5/4/2015 5:21:23 | 35.76 | 33.26 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/4/2015 5:21:24 | 36.09 | 33.59 | 1,148 | 0.32 | 0.37 | 62.8 |
| 5/4/2015 5:21:24 | 36.42 | 33.92 | 1,152 | 0.32 | 0.37 | 63.0 |
| 5/4/2015 5:21:24 | 36.75 | 34.25 | 1,152 | 0.32 | 0.37 | 63.0 |
| 5/4/2015 5:21:24 | 37.07 | 34.57 | 1,134 | 0.32 | 0.38 | 62.0 |
| 5/4/2015 5:21:25 | 37.40 | 34.90 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/4/2015 5:21:25 | 37.73 | 35.23 | 1,134 | 0.31 | 0.38 | 62.0 |
| 5/4/2015 5:21:25 | 38.06 | 35.56 | 1,175 | 0.32 | 0.38 | 64.3 |
| 5/4/2015 5:21:26 | 38.39 | 35.89 | 1,175 | 0.32 | 0.38 | 64.3 |
| 5/4/2015 5:21:26 | 38.71 | 36.21 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/4/2015 5:21:26 | 39.04 | 36.54 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/4/2015 5:21:26 | 39.37 | 36.87 | 1,158 | 0.31 | 0.37 | 63.3 |
| 5/4/2015 5:21:27 | 39.70 | 37.20 | 1,161 | 0.33 | 0.37 | 63.5 |
| 5/4/2015 5:21:27 | 40.03 | 37.53 | 1,161 | 0.33 | 0.37 | 63.5 |
| 5/4/2015 5:21:27 | 40.35 | 37.85 | 1,189 | 0.32 | 0.37 | 65.0 |
| 5/4/2015 5:21:28 | 40.68 | 38.18 | 1,189 | 0.32 | 0.37 | 65.0 |
| 5/4/2015 5:21:28 | 41.01 | 38.51 | 1,142 | 0.32 | 0.37 | 62.5 |
| 5/4/2015 5:21:28 | 41.34 | 38.84 | 1,142 | 0.32 | 0.37 | 62.5 |
| 5/4/2015 5:21:29 | 41.67 | 39.17 | 1,142 | 0.32 | 0.37 | 62.5 |
| 5/4/2015 5:21:29 | 41.99 | 39.49 | 1,160 | 0.32 | 0.37 | 63.4 |
| 5/4/2015 5:21:29 | 42.32 | 39.82 | 1,160 | 0.32 | 0.37 | 63.4 |
| 5/4/2015 5:21:29 | 42.65 | 40.15 | 1,151 | 0.32 | 0.37 | 62.9 |
| 5/4/2015 5:21:30 | 42.98 | 40.48 | 1,154 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:30 | 43.31 | 40.81 | 1,154 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:30 | 43.64 | 41.14 | 1,123 | 0.25 | 0.37 | 61.4 |
| 5/4/2015 5:21:31 | 43.96 | 41.46 | 1,123 | 0.25 | 0.37 | 61.4 |
| 5/4/2015 5:21:31 | 44.29 | 41.79 | 1,154 | 0.32 | 0.36 | 63.1 |
| 5/4/2015 5:21:31 | 44.62 | 42.12 | 1,154 | 0.32 | 0.36 | 63.1 |
| 5/4/2015 5:21:31 | 44.95 | 42.45 | 1,154 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:32 | 45.28 | 42.78 | 1,155 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:32 | 45.60 | 43.10 | 1,155 | 0.32 | 0.37 | 63.1 |
| 5/4/2015 5:21:32 | 45.93 | 43.43 | 1,176 | 0.32 | 0.37 | 64.3 |
| 5/4/2015 5:21:33 | 46.26 | 43.76 | 1,176 | 0.32 | 0.37 | 64.3 |
| 5/4/2015 5:21:33 | 46.59 | 44.09 | 1,146 | 0.31 | 0.39 | 62.6 |
| 5/4/2015 5:21:39 | 46.92 | 44.42 | 0 | 2.99 | 0.45 | 0.0 |
| 5/4/2015 5:21:42 | 47.24 | 44.74 | 68 | 3.39 | 0.44 | 3.7 |
| 5/4/2015 5:21:44 | 47.57 | 45.07 | 177 | 4.55 | 0.42 | 9.7 |
| 5/4/2015 5:21:45 | 47.90 | 45.40 | 248 | 2.83 | 0.43 | 13.5 |
| 5/4/2015 5:21:46 | 48.23 | 45.73 | 353 | 3.33 | 0.44 | 19.3 |
| 5/4/2015 5:22:28 | 48.56 | 46.06 | 20 | 3.58 | 0.47 | 1.1 |
| 5/4/2015 5:22:40 | 48.88 | 46.38 | 26 | 2.98 | 0.46 | 1.4 |
| 5/4/2015 5:22:50 | 49.21 | 46.71 | 41 | 2.69 | 0.45 | 2.2 |
| 5/4/2015 5:23:01 | 49.54 | 47.04 | 32 | 2.65 | 0.47 | 1.7 |
| 5/4/2015 5:23:07 | 49.72 | 47.22 | 36 | 2.71 | 0.46 | 2.0 |

## Q1001 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 5:19:53

**End Date:**
5/4/2015 5:24:33

**Operator Note:**
'2.5 2.6b Auto Complete'

**Northing:**
348,580.50

**Easting:**
223,859.90

**Tide (feet):**
2.50



## Hole: Q1002 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:26:21 | 32.81 | 30.31 | 1,400 | 1.87 | 0.61 | 76.5 |
| 5/4/2015 5:26:21 | 33.14 | 30.64 | 1,400 | 1.87 | 0.61 | 76.5 |
| 5/4/2015 5:26:21 | 33.46 | 30.96 | 1,400 | 1.87 | 0.61 | 76.5 |
| 5/4/2015 5:26:21 | 33.79 | 31.29 | 1,414 | 1.85 | 0.61 | 77.3 |
| 5/4/2015 5:26:22 | 34.12 | 31.62 | 1,414 | 1.85 | 0.61 | 77.3 |
| 5/4/2015 5:26:22 | 34.45 | 31.95 | 1,408 | 1.85 | 0.61 | 77.0 |
| 5/4/2015 5:26:22 | 34.78 | 32.28 | 1,408 | 1.85 | 0.61 | 77.0 |
| 5/4/2015 5:26:22 | 35.11 | 32.61 | 1,408 | 1.86 | 0.61 | 77.0 |
| 5/4/2015 5:26:23 | 35.43 | 32.93 | 1,408 | 1.86 | 0.61 | 77.0 |
| 5/4/2015 5:26:23 | 35.76 | 33.26 | 1,405 | 1.85 | 0.61 | 76.8 |
| 5/4/2015 5:26:23 | 36.09 | 33.59 | 1,405 | 1.85 | 0.61 | 76.8 |
| 5/4/2015 5:26:23 | 36.42 | 33.92 | 1,408 | 1.85 | 0.60 | 77.0 |
| 5/4/2015 5:26:24 | 36.75 | 34.25 | 1,408 | 1.85 | 0.60 | 77.0 |
| 5/4/2015 5:26:24 | 37.07 | 34.57 | 1,402 | 1.84 | 0.60 | 76.7 |
| 5/4/2015 5:26:24 | 37.40 | 34.90 | 1,402 | 1.84 | 0.60 | 76.7 |
| 5/4/2015 5:26:24 | 37.73 | 35.23 | 1,373 | 1.87 | 0.61 | 75.1 |
| 5/4/2015 5:26:25 | 38.06 | 35.56 | 1,373 | 1.87 | 0.61 | 75.1 |
| 5/4/2015 5:26:25 | 38.39 | 35.89 | 1,373 | 1.88 | 0.60 | 75.1 |
| 5/4/2015 5:26:25 | 38.71 | 36.21 | 1,373 | 1.88 | 0.60 | 75.1 |
| 5/4/2015 5:26:25 | 39.04 | 36.54 | 1,388 | 1.89 | 0.60 | 75.9 |
| 5/4/2015 5:26:26 | 39.37 | 36.87 | 1,388 | 1.89 | 0.60 | 75.9 |
| 5/4/2015 5:26:26 | 39.70 | 37.20 | 1,391 | 1.86 | 0.61 | 76.1 |
| 5/4/2015 5:26:26 | 40.03 | 37.53 | 1,391 | 1.86 | 0.61 | 76.1 |
| 5/4/2015 5:26:27 | 40.35 | 37.85 | 1,377 | 1.91 | 0.60 | 75.3 |
| 5/4/2015 5:26:27 | 40.68 | 38.18 | 1,377 | 1.91 | 0.60 | 75.3 |
| 5/4/2015 5:26:27 | 41.01 | 38.51 | 1,374 | 1.85 | 0.61 | 75.1 |
| 5/4/2015 5:26:27 | 41.34 | 38.84 | 1,374 | 1.85 | 0.61 | 75.1 |
| 5/4/2015 5:26:28 | 41.67 | 39.17 | 1,424 | 1.86 | 0.61 | 77.9 |
| 5/4/2015 5:26:28 | 41.99 | 39.49 | 1,424 | 1.86 | 0.61 | 77.9 |
| 5/4/2015 5:26:28 | 42.32 | 39.82 | 1,382 | 1.87 | 0.60 | 75.6 |
| 5/4/2015 5:26:28 | 42.65 | 40.15 | 1,382 | 1.87 | 0.60 | 75.6 |
| 5/4/2015 5:26:29 | 42.98 | 40.48 | 1,382 | 1.85 | 0.61 | 75.6 |
| 5/4/2015 5:26:29 | 43.31 | 40.81 | 1,382 | 1.85 | 0.61 | 75.6 |
| 5/4/2015 5:26:29 | 43.64 | 41.14 | 1,389 | 1.85 | 0.61 | 76.0 |
| 5/4/2015 5:26:29 | 43.96 | 41.46 | 1,389 | 1.85 | 0.61 | 76.0 |
| 5/4/2015 5:26:30 | 44.29 | 41.79 | 1,373 | 1.85 | 0.60 | 75.1 |
| 5/4/2015 5:26:30 | 44.62 | 42.12 | 1,373 | 1.85 | 0.60 | 75.1 |
| 5/4/2015 5:26:30 | 44.95 | 42.45 | 1,373 | 1.87 | 0.61 | 75.1 |
| 5/4/2015 5:26:30 | 45.28 | 42.78 | 1,373 | 1.87 | 0.61 | 75.1 |
| 5/4/2015 5:26:31 | 45.60 | 43.10 | 1,393 | 1.87 | 0.61 | 76.2 |
| 5/4/2015 5:26:31 | 45.93 | 43.43 | 1,393 | 1.87 | 0.61 | 76.2 |
| 5/4/2015 5:26:31 | 46.26 | 43.76 | 1,370 | 1.88 | 0.60 | 74.9 |
| 5/4/2015 5:26:32 | 46.59 | 44.09 | 1,370 | 1.88 | 0.60 | 74.9 |
| 5/4/2015 5:26:32 | 46.92 | 44.42 | 1,399 | 1.85 | 0.61 | 76.5 |
| 5/4/2015 5:26:33 | 47.24 | 44.74 | 1,399 | 1.85 | 0.61 | 76.5 |
| 5/4/2015 5:26:33 | 47.57 | 45.07 | 1,378 | 2.45 | 1.22 | 75.4 |
| 5/4/2015 5:26:33 | 47.90 | 45.40 | 1,283 | 3.14 | 1.50 | 70.2 |
| 5/4/2015 5:27:49 | 48.23 | 45.73 | 32 | 2.12 | 1.01 | 1.8 |
| 5/4/2015 5:27:51 | 48.56 | 46.06 | 146 | 2.18 | 1.27 | 8.0 |
| 5/4/2015 5:27:52 | 48.88 | 46.38 | 257 | 2.08 | 1.39 | 14.0 |
| 5/4/2015 5:27:54 | 49.21 | 46.71 | 290 | 2.14 | 1.25 | 15.9 |
| 5/4/2015 5:27:56 | 49.54 | 47.04 | 207 | 1.74 | 1.36 | 11.3 |
| 5/4/2015 5:27:57 | 49.87 | 47.37 | 207 | 1.98 | 1.85 | 11.3 |
| 5/4/2015 5:28:02 | 50.20 | 47.70 | 14 | 2.06 | 1.58 | 0.8 |
| 5/4/2015 5:28:05 | 50.53 | 48.03 | 118 | 2.12 | 1.24 | 6.5 |
| 5/4/2015 5:28:07 | 50.85 | 48.35 | 139 | 2.10 | 1.36 | 7.6 |
| 5/4/2015 5:28:09 | 51.18 | 48.68 | 152 | 2.02 | 1.31 | 8.3 |
| 5/4/2015 5:28:12 | 51.51 | 49.01 | 167 | 2.16 | 1.13 | 9.1 |
| 5/4/2015 5:28:16 | 51.84 | 49.34 | 101 | 2.26 | 1.28 | 5.5 |
| 5/4/2015 5:28:20 | 52.17 | 49.67 | 75 | 2.14 | 1.27 | 4.1 |
| 5/4/2015 5:28:25 | 52.49 | 49.99 | 67 | 2.08 | 1.15 | 3.7 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:28:31 | 52.82 | 50.32 | 60 | 2.06 | 1.05 | 3.3 |
| 5/4/2015 | 5:28:40 | 53.15 | 50.65 | 37 | 2.24 | 1.13 | 2.0 |
| 5/4/2015 | 5:28:46 | 53.48 | 50.98 | 69 | 2.15 | 1.25 | 3.8 |
| 5/4/2015 | 5:28:49 | 53.81 | 51.31 | 133 | 2.17 | 0.99 | 7.3 |
| 5/4/2015 | 5:28:53 | 54.13 | 51.63 | 90 | 2.16 | 1.05 | 4.9 |
| 5/4/2015 | 5:28:59 | 54.46 | 51.96 | 84 | 2.12 | 1.06 | 4.6 |
| 5/4/2015 | 5:29:06 | 54.74 | 52.24 | 34 | 2.23 | 0.93 | 1.9 |

## Q1002 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 5:24:44

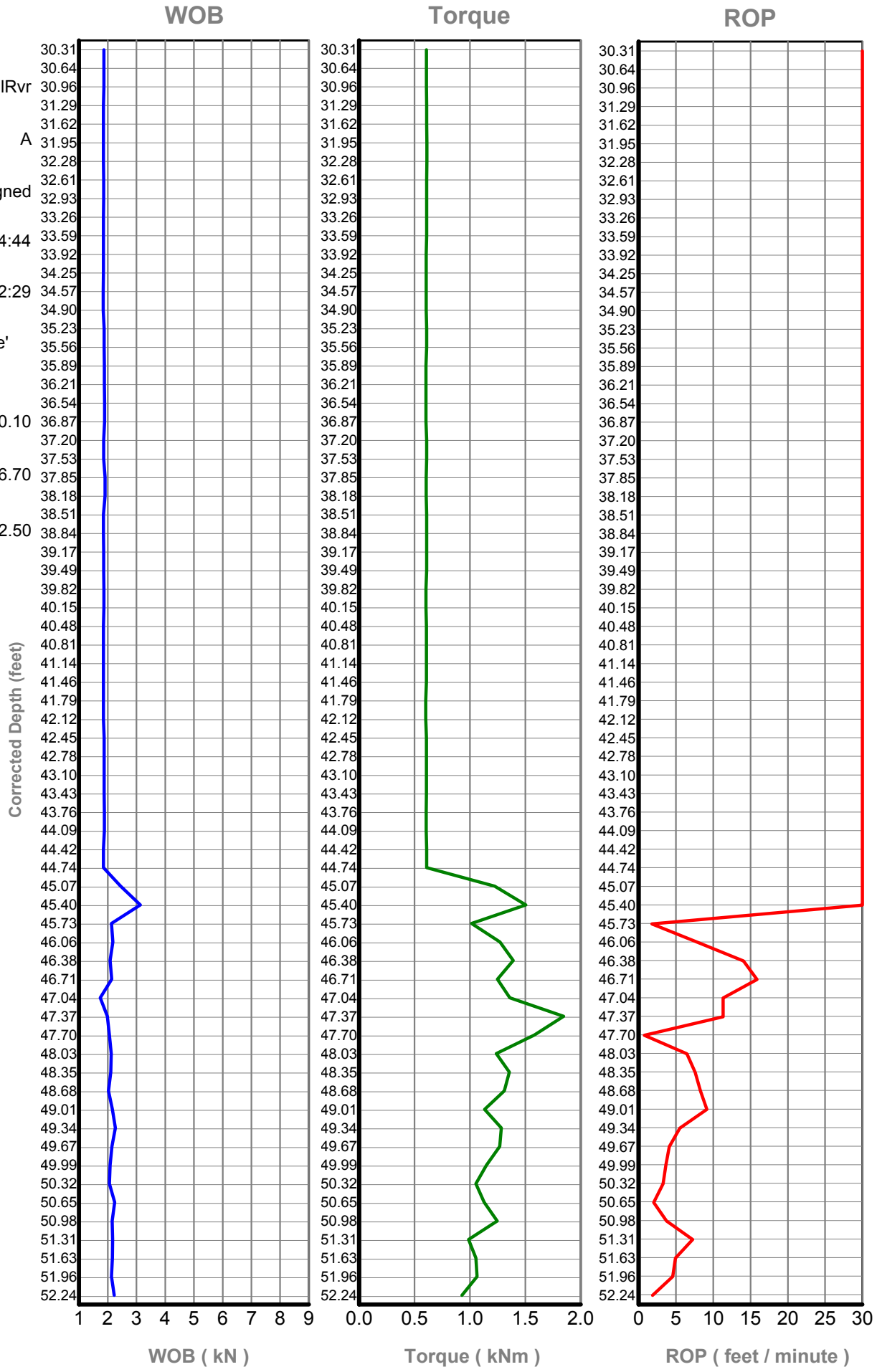
**End Date:**
5/4/2015 5:32:29

**Operator Note:**
'2.5 2.5 a Auto Complete'

**Northing:**
348,540.10

**Easting:**
223,796.70

**Tide (feet):**
2.50



## Hole: Q1006 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:43:16 | 32.15 | 30.05 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 5:43:16 | 32.48 | 30.38 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:17 | 32.81 | 30.71 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:17 | 33.14 | 31.04 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:17 | 33.46 | 31.36 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:18 | 33.79 | 31.69 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:18 | 34.12 | 32.02 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:18 | 34.45 | 32.35 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:43:19 | 34.78 | 32.68 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:19 | 35.11 | 33.01 | 1,069 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:19 | 35.43 | 33.33 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:43:20 | 35.76 | 33.66 | 1,088 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 5:43:20 | 36.09 | 33.99 | 1,073 | 1.14 | 0.29 | 58.6 |
| 5/4/2015 5:43:20 | 36.42 | 34.32 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:43:21 | 36.75 | 34.65 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:43:21 | 37.07 | 34.97 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 5:43:21 | 37.40 | 35.30 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:43:22 | 37.73 | 35.63 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:43:22 | 38.06 | 35.96 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:22 | 38.39 | 36.29 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:23 | 38.71 | 36.61 | 1,075 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:23 | 39.04 | 36.94 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:24 | 39.37 | 37.27 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:43:24 | 39.70 | 37.60 | 1,079 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 5:43:24 | 40.03 | 37.93 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:25 | 40.35 | 38.25 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:25 | 40.68 | 38.58 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:25 | 41.01 | 38.91 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:26 | 41.34 | 39.24 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:26 | 41.67 | 39.57 | 1,072 | 1.14 | 0.29 | 58.6 |
| 5/4/2015 5:43:26 | 41.99 | 39.89 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:27 | 42.32 | 40.22 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:27 | 42.65 | 40.55 | 1,076 | 1.14 | 0.29 | 58.8 |
| 5/4/2015 5:43:27 | 42.98 | 40.88 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:28 | 43.31 | 41.21 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:28 | 43.64 | 41.54 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:28 | 43.96 | 41.86 | 1,077 | 1.14 | 0.29 | 58.9 |
| 5/4/2015 5:43:28 | 44.29 | 42.19 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 5:43:29 | 44.62 | 42.52 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 5:43:29 | 44.95 | 42.85 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 5:43:29 | 45.28 | 43.18 | 1,073 | 1.14 | 0.29 | 58.7 |
| 5/4/2015 5:43:30 | 45.60 | 43.50 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 5:43:30 | 45.93 | 43.83 | 1,067 | 1.14 | 0.29 | 58.3 |
| 5/4/2015 5:43:30 | 46.26 | 44.16 | 1,070 | 1.14 | 0.29 | 58.5 |
| 5/4/2015 5:43:31 | 46.59 | 44.49 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 5:43:31 | 46.92 | 44.82 | 1,064 | 1.14 | 0.29 | 58.2 |
| 5/4/2015 5:43:42 | 47.24 | 45.14 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 5:43:45 | 47.57 | 45.47 | 81 | 1.14 | 0.29 | 4.5 |
| 5/4/2015 5:43:45 | 47.90 | 45.80 | 171 | 1.14 | 0.29 | 9.4 |
| 5/4/2015 5:44:16 | 48.23 | 46.13 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 5:44:27 | 48.56 | 46.46 | 46 | 1.14 | 0.29 | 2.5 |
| 5/4/2015 5:44:27 | 48.88 | 46.78 | 166 | 1.14 | 0.29 | 9.1 |
| 5/4/2015 5:44:28 | 49.21 | 47.11 | 302 | 1.14 | 0.29 | 16.5 |
| 5/4/2015 5:44:28 | 49.54 | 47.44 | 430 | 1.14 | 0.29 | 23.5 |
| 5/4/2015 5:44:54 | 49.87 | 47.77 | 26 | 1.14 | 0.29 | 1.4 |
| 5/4/2015 5:44:55 | 50.20 | 48.10 | 156 | 1.14 | 0.29 | 8.6 |
| 5/4/2015 5:45:13 | 50.53 | 48.43 | 50 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 5:45:14 | 50.85 | 48.75 | 199 | 1.14 | 0.29 | 10.9 |
| 5/4/2015 5:45:44 | 51.18 | 49.08 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 5:45:46 | 51.51 | 49.41 | 158 | 1.14 | 0.29 | 8.6 |
| 5/4/2015 5:46:10 | 51.84 | 49.74 | 59 | 1.14 | 0.29 | 3.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:46:59 | 52.17 | 50.07 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 | 5:47:27 | 52.49 | 50.39 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 | 5:47:38 | 52.82 | 50.72 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 5:47:42 | 53.15 | 51.05 | 119 | 1.14 | 0.29 | 6.5 |
| 5/4/2015 | 5:47:50 | 53.48 | 51.38 | 44 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 | 5:47:55 | 53.81 | 51.71 | 76 | 1.14 | 0.29 | 4.1 |
| 5/4/2015 | 5:48:02 | 54.13 | 52.03 | 48 | 1.14 | 0.29 | 2.6 |
| 5/4/2015 | 5:48:09 | 54.46 | 52.36 | 44 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 | 5:48:26 | 54.79 | 52.69 | 17 | 1.14 | 0.29 | 1.0 |
| 5/4/2015 | 5:48:33 | 54.93 | 52.83 | 23 | 1.14 | 0.29 | 1.2 |

## Q1006 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
ReDrilled

**Start Date:**
5/4/2015 5:42:22

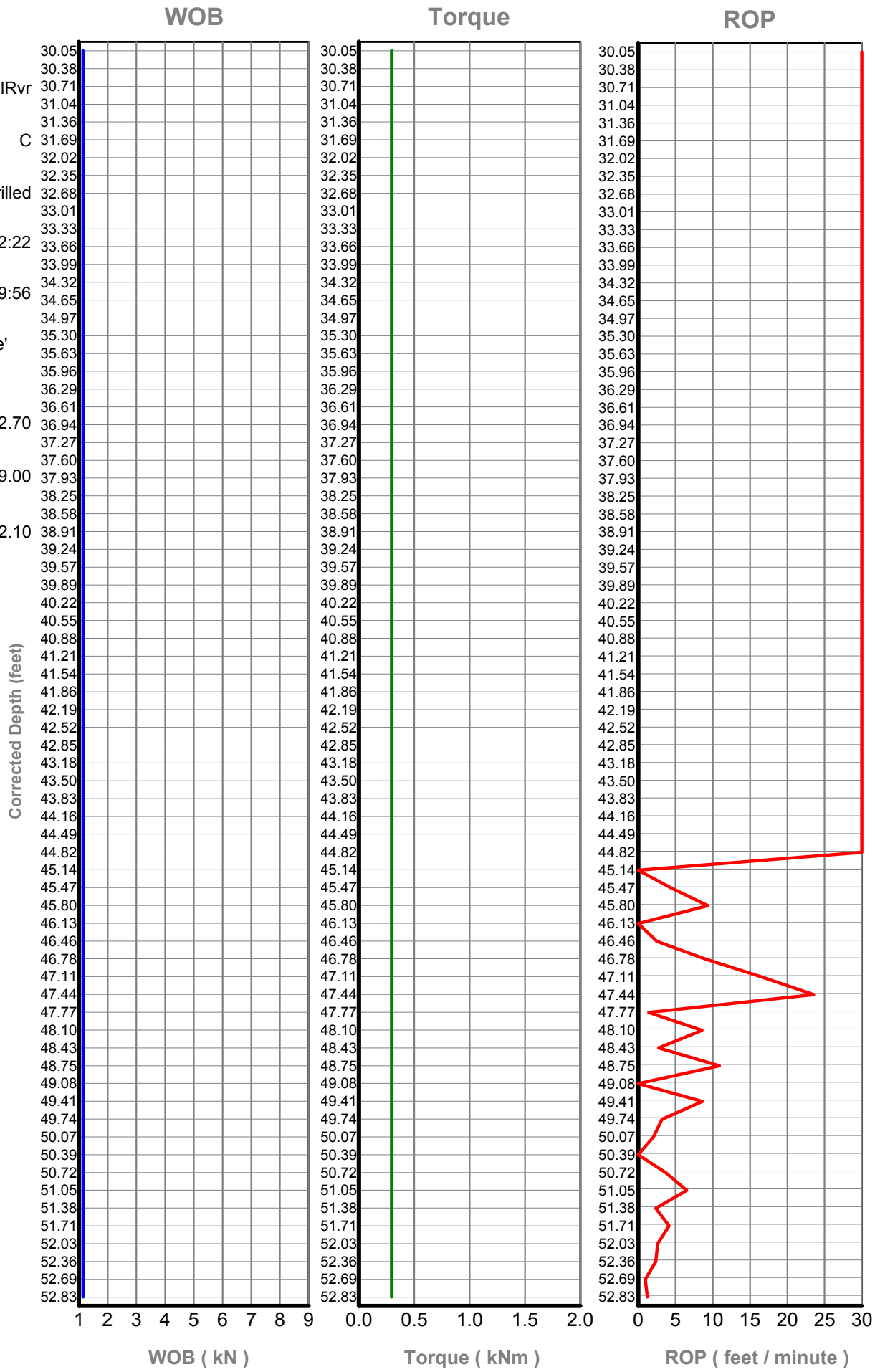
**End Date:**
5/4/2015 5:49:56

**Operator Note:**
'2.1 2.3 c Auto Complete'

**Northing:**
348,552.70

**Easting:**
223,959.00

**Tide (feet):**
2.10



## Hole: Q1007 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:44:16 | 32.15 | 30.05 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:16 | 32.48 | 30.38 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:16 | 32.81 | 30.71 | 1,232 | 0.30 | 0.36 | 67.3 |
| 5/4/2015 5:44:17 | 33.14 | 31.04 | 1,232 | 0.30 | 0.36 | 67.3 |
| 5/4/2015 5:44:17 | 33.46 | 31.36 | 1,237 | 0.30 | 0.37 | 67.7 |
| 5/4/2015 5:44:17 | 33.79 | 31.69 | 1,237 | 0.30 | 0.37 | 67.7 |
| 5/4/2015 5:44:17 | 34.12 | 32.02 | 1,227 | 0.29 | 0.37 | 67.1 |
| 5/4/2015 5:44:18 | 34.45 | 32.35 | 1,227 | 0.29 | 0.37 | 67.1 |
| 5/4/2015 5:44:18 | 34.78 | 32.68 | 1,240 | 0.29 | 0.38 | 67.8 |
| 5/4/2015 5:44:18 | 35.11 | 33.01 | 1,240 | 0.29 | 0.38 | 67.8 |
| 5/4/2015 5:44:18 | 35.43 | 33.33 | 1,243 | 0.30 | 0.37 | 68.0 |
| 5/4/2015 5:44:19 | 35.76 | 33.66 | 1,240 | 0.30 | 0.37 | 67.8 |
| 5/4/2015 5:44:20 | 36.09 | 33.99 | 1,240 | 0.30 | 0.37 | 67.8 |
| 5/4/2015 5:44:20 | 36.42 | 34.32 | 1,234 | 0.29 | 0.36 | 67.5 |
| 5/4/2015 5:44:20 | 36.75 | 34.65 | 1,234 | 0.29 | 0.36 | 67.5 |
| 5/4/2015 5:44:20 | 37.07 | 34.97 | 1,231 | 0.30 | 0.36 | 67.3 |
| 5/4/2015 5:44:21 | 37.40 | 35.30 | 1,231 | 0.30 | 0.36 | 67.3 |
| 5/4/2015 5:44:21 | 37.73 | 35.63 | 1,229 | 0.29 | 0.37 | 67.2 |
| 5/4/2015 5:44:21 | 38.06 | 35.96 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:22 | 38.39 | 36.29 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:22 | 38.71 | 36.61 | 1,198 | 0.30 | 0.37 | 65.5 |
| 5/4/2015 5:44:22 | 39.04 | 36.94 | 1,198 | 0.30 | 0.37 | 65.5 |
| 5/4/2015 5:44:22 | 39.37 | 37.27 | 1,198 | 0.30 | 0.37 | 65.5 |
| 5/4/2015 5:44:23 | 39.70 | 37.60 | 1,198 | 0.30 | 0.37 | 65.5 |
| 5/4/2015 5:44:23 | 40.03 | 37.93 | 1,219 | 0.30 | 0.37 | 66.7 |
| 5/4/2015 5:44:23 | 40.35 | 38.25 | 1,219 | 0.30 | 0.37 | 66.7 |
| 5/4/2015 5:44:23 | 40.68 | 38.58 | 1,235 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 5:44:24 | 41.01 | 38.91 | 1,235 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 5:44:24 | 41.34 | 39.24 | 1,228 | 0.30 | 0.37 | 67.1 |
| 5/4/2015 5:44:24 | 41.67 | 39.57 | 1,222 | 0.30 | 0.36 | 66.8 |
| 5/4/2015 5:44:25 | 41.99 | 39.89 | 1,222 | 0.30 | 0.36 | 66.8 |
| 5/4/2015 5:44:25 | 42.32 | 40.22 | 1,245 | 0.30 | 0.37 | 68.1 |
| 5/4/2015 5:44:25 | 42.65 | 40.55 | 1,245 | 0.30 | 0.37 | 68.1 |
| 5/4/2015 5:44:25 | 42.98 | 40.88 | 1,220 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 5:44:26 | 43.31 | 41.21 | 1,220 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 5:44:26 | 43.64 | 41.54 | 1,222 | 0.29 | 0.36 | 66.8 |
| 5/4/2015 5:44:26 | 43.96 | 41.86 | 1,226 | 0.31 | 0.37 | 67.1 |
| 5/4/2015 5:44:27 | 44.29 | 42.19 | 1,226 | 0.31 | 0.37 | 67.1 |
| 5/4/2015 5:44:27 | 44.62 | 42.52 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:27 | 44.95 | 42.85 | 1,229 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 5:44:27 | 45.28 | 43.18 | 1,240 | 0.30 | 0.37 | 67.8 |
| 5/4/2015 5:44:28 | 45.60 | 43.50 | 1,240 | 0.30 | 0.37 | 67.8 |
| 5/4/2015 5:44:28 | 45.93 | 43.83 | 1,244 | 0.31 | 0.36 | 68.0 |
| 5/4/2015 5:44:28 | 46.26 | 44.16 | 1,244 | 0.31 | 0.36 | 68.0 |
| 5/4/2015 5:44:28 | 46.59 | 44.49 | 1,233 | 0.30 | 0.36 | 67.4 |
| 5/4/2015 5:44:29 | 46.92 | 44.82 | 1,226 | 0.28 | 0.43 | 67.0 |
| 5/4/2015 5:44:30 | 47.24 | 45.14 | 1,226 | 0.28 | 0.43 | 67.0 |
| 5/4/2015 5:44:38 | 47.57 | 45.47 | 127 | 4.32 | 0.43 | 6.9 |
| 5/4/2015 5:44:39 | 47.90 | 45.80 | 222 | 2.65 | 0.42 | 12.2 |
| 5/4/2015 5:44:39 | 48.23 | 46.13 | 294 | 3.54 | 0.42 | 16.1 |
| 5/4/2015 5:44:40 | 48.56 | 46.46 | 414 | 3.43 | 0.42 | 22.7 |
| 5/4/2015 5:44:46 | 48.88 | 46.78 | 11 | 3.34 | 0.43 | 0.6 |
| 5/4/2015 5:44:49 | 49.21 | 47.11 | 69 | 3.94 | 0.45 | 3.8 |
| 5/4/2015 5:44:58 | 49.54 | 47.44 | 0 | 4.76 | 0.45 | 0.0 |
| 5/4/2015 5:45:00 | 49.87 | 47.77 | 91 | 2.91 | 0.43 | 5.0 |
| 5/4/2015 5:45:02 | 50.20 | 48.10 | 226 | 2.69 | 0.45 | 12.3 |
| 5/4/2015 5:45:03 | 50.53 | 48.43 | 232 | 2.63 | 0.44 | 12.7 |
| 5/4/2015 5:45:13 | 50.85 | 48.75 | 26 | 4.20 | 0.48 | 1.4 |
| 5/4/2015 5:45:19 | 51.18 | 49.08 | 43 | 2.90 | 0.46 | 2.4 |
| 5/4/2015 5:45:23 | 51.51 | 49.41 | 113 | 3.23 | 0.45 | 6.2 |
| 5/4/2015 5:46:27 | 51.84 | 49.74 | 1 | 4.27 | 0.46 | 0.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:46:33 | 52.17 | 50.07 | 28 | 3.52 | 0.46 | 1.5 |
| 5/4/2015 | 5:46:37 | 52.49 | 50.39 | 112 | 3.12 | 0.46 | 6.1 |
| 5/4/2015 | 5:46:41 | 52.82 | 50.72 | 88 | 2.97 | 0.46 | 4.8 |
| 5/4/2015 | 5:46:45 | 53.15 | 51.05 | 79 | 2.84 | 0.46 | 4.3 |
| 5/4/2015 | 5:46:50 | 53.48 | 51.38 | 68 | 2.74 | 0.46 | 3.7 |
| 5/4/2015 | 5:46:55 | 53.81 | 51.71 | 77 | 2.82 | 0.46 | 4.2 |
| 5/4/2015 | 5:47:00 | 54.13 | 52.03 | 66 | 3.26 | 0.46 | 3.6 |
| 5/4/2015 | 5:47:05 | 54.46 | 52.36 | 79 | 3.02 | 0.46 | 4.3 |
| 5/4/2015 | 5:47:09 | 54.79 | 52.69 | 81 | 3.27 | 0.46 | 4.4 |
| 5/4/2015 | 5:47:13 | 55.12 | 53.02 | 84 | 3.01 | 0.46 | 4.6 |
| 5/4/2015 | 5:47:18 | 55.45 | 53.35 | 73 | 3.69 | 0.46 | 4.0 |
| 5/4/2015 | 5:47:22 | 55.77 | 53.67 | 94 | 2.63 | 0.47 | 5.1 |
| 5/4/2015 | 5:47:28 | 56.10 | 54.00 | 61 | 2.91 | 0.47 | 3.3 |
| 5/4/2015 | 5:47:36 | 56.43 | 54.33 | 40 | 2.75 | 0.47 | 2.2 |
| 5/4/2015 | 5:47:53 | 56.76 | 54.66 | 19 | 2.51 | 0.47 | 1.0 |
| 5/4/2015 | 5:48:00 | 56.89 | 54.79 | 20 | 2.31 | 0.47 | 1.1 |

## Q1007 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 5:42:48

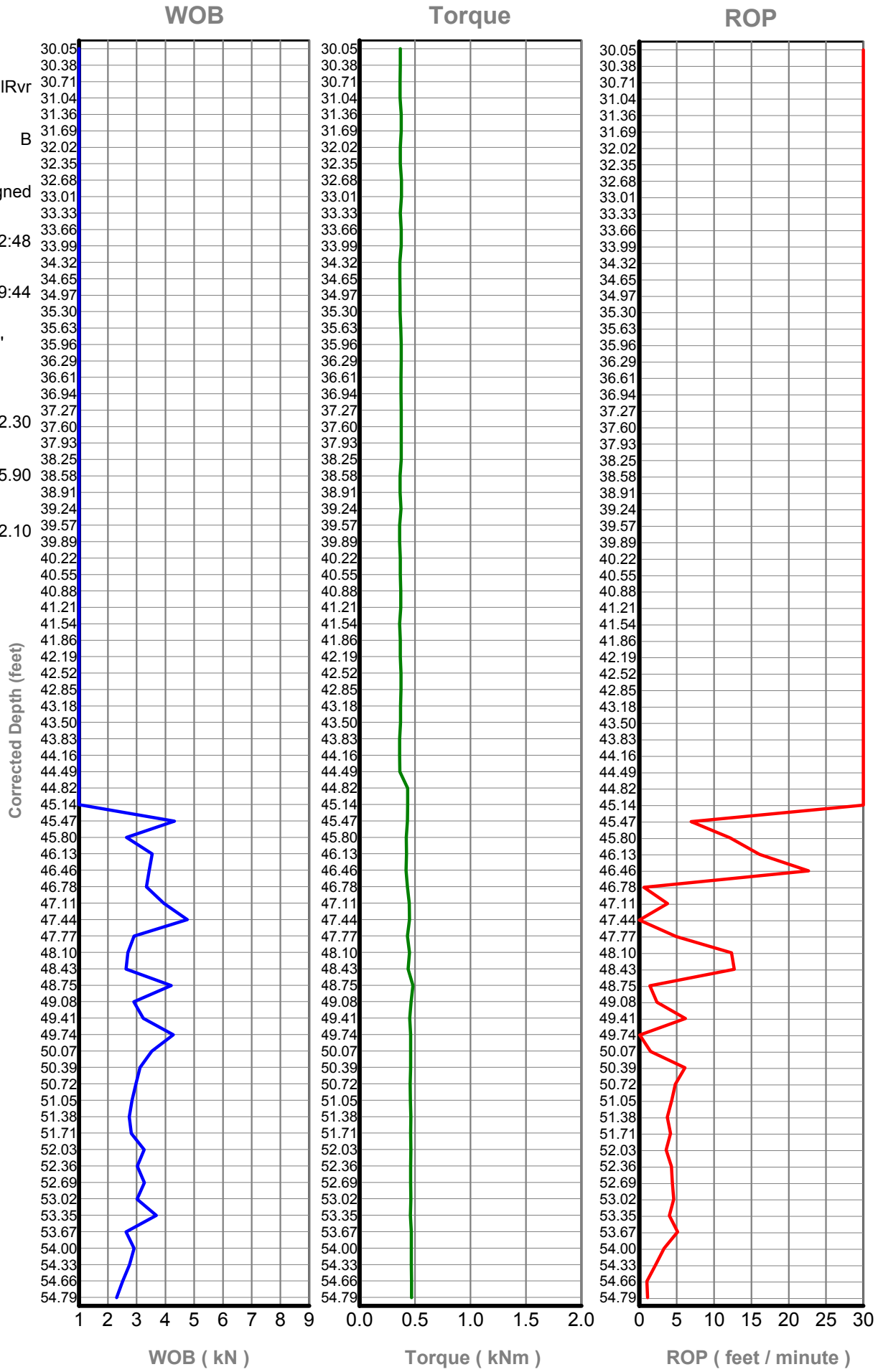
**End Date:**
5/4/2015 5:49:44

**Operator Note:**
'2.1 2.3b Auto Complete'

**Northing:**
348,512.30

**Easting:**
223,895.90

**Tide (feet):**
2.10



## Hole: Q1008 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 5:43:05 | 32.48 | 30.18 | 1,389 | 1.80 | 0.21 | 75.9 |
| 5/4/2015 5:43:06 | 32.81 | 30.51 | 1,401 | 1.83 | 0.22 | 76.6 |
| 5/4/2015 5:43:06 | 33.14 | 30.84 | 1,401 | 1.83 | 0.22 | 76.6 |
| 5/4/2015 5:43:06 | 33.46 | 31.16 | 1,416 | 1.81 | 0.21 | 77.4 |
| 5/4/2015 5:43:06 | 33.79 | 31.49 | 1,416 | 1.81 | 0.21 | 77.4 |
| 5/4/2015 5:43:07 | 34.12 | 31.82 | 1,410 | 1.82 | 0.22 | 77.1 |
| 5/4/2015 5:43:07 | 34.45 | 32.15 | 1,410 | 1.82 | 0.22 | 77.1 |
| 5/4/2015 5:43:07 | 34.78 | 32.48 | 1,410 | 1.80 | 0.21 | 77.1 |
| 5/4/2015 5:43:07 | 35.11 | 32.81 | 1,410 | 1.80 | 0.21 | 77.1 |
| 5/4/2015 5:43:08 | 35.43 | 33.13 | 1,461 | 1.83 | 0.21 | 79.9 |
| 5/4/2015 5:43:08 | 35.76 | 33.46 | 1,461 | 1.83 | 0.21 | 79.9 |
| 5/4/2015 5:43:08 | 36.09 | 33.79 | 1,437 | 1.79 | 0.21 | 78.6 |
| 5/4/2015 5:43:08 | 36.42 | 34.12 | 1,437 | 1.79 | 0.21 | 78.6 |
| 5/4/2015 5:43:09 | 36.75 | 34.45 | 1,428 | 1.82 | 0.21 | 78.1 |
| 5/4/2015 5:43:09 | 37.07 | 34.77 | 1,428 | 1.82 | 0.21 | 78.1 |
| 5/4/2015 5:43:09 | 37.40 | 35.10 | 1,419 | 1.81 | 0.21 | 77.6 |
| 5/4/2015 5:43:09 | 37.73 | 35.43 | 1,419 | 1.81 | 0.21 | 77.6 |
| 5/4/2015 5:43:10 | 38.06 | 35.76 | 1,419 | 1.81 | 0.21 | 77.6 |
| 5/4/2015 5:43:10 | 38.39 | 36.09 | 1,425 | 1.82 | 0.21 | 77.9 |
| 5/4/2015 5:43:10 | 38.71 | 36.41 | 1,425 | 1.82 | 0.21 | 77.9 |
| 5/4/2015 5:43:10 | 39.04 | 36.74 | 1,411 | 1.83 | 0.21 | 77.1 |
| 5/4/2015 5:43:10 | 39.37 | 37.07 | 1,411 | 1.83 | 0.21 | 77.1 |
| 5/4/2015 5:43:11 | 39.70 | 37.40 | 1,422 | 1.81 | 0.21 | 77.8 |
| 5/4/2015 5:43:11 | 40.03 | 37.73 | 1,422 | 1.81 | 0.21 | 77.8 |
| 5/4/2015 5:43:11 | 40.35 | 38.05 | 1,411 | 1.82 | 0.21 | 77.1 |
| 5/4/2015 5:43:12 | 40.68 | 38.38 | 1,411 | 1.82 | 0.21 | 77.1 |
| 5/4/2015 5:43:12 | 41.01 | 38.71 | 1,422 | 1.81 | 0.21 | 77.8 |
| 5/4/2015 5:43:12 | 41.34 | 39.04 | 1,422 | 1.81 | 0.21 | 77.8 |
| 5/4/2015 5:43:12 | 41.67 | 39.37 | 1,414 | 1.81 | 0.21 | 77.3 |
| 5/4/2015 5:43:13 | 41.99 | 39.69 | 1,414 | 1.81 | 0.21 | 77.3 |
| 5/4/2015 5:43:13 | 42.32 | 40.02 | 1,419 | 1.79 | 0.21 | 77.6 |
| 5/4/2015 5:43:13 | 42.65 | 40.35 | 1,419 | 1.79 | 0.21 | 77.6 |
| 5/4/2015 5:43:13 | 42.98 | 40.68 | 1,411 | 1.79 | 0.21 | 77.1 |
| 5/4/2015 5:43:14 | 43.31 | 41.01 | 1,411 | 1.79 | 0.21 | 77.1 |
| 5/4/2015 5:43:14 | 43.64 | 41.34 | 1,416 | 1.83 | 0.21 | 77.5 |
| 5/4/2015 5:43:14 | 43.96 | 41.66 | 1,416 | 1.83 | 0.21 | 77.5 |
| 5/4/2015 5:43:14 | 44.29 | 41.99 | 1,411 | 1.80 | 0.21 | 77.1 |
| 5/4/2015 5:43:15 | 44.62 | 42.32 | 1,411 | 1.80 | 0.21 | 77.1 |
| 5/4/2015 5:43:15 | 44.95 | 42.65 | 1,413 | 1.83 | 0.21 | 77.3 |
| 5/4/2015 5:43:15 | 45.28 | 42.98 | 1,413 | 1.83 | 0.21 | 77.3 |
| 5/4/2015 5:43:15 | 45.60 | 43.30 | 1,405 | 1.84 | 0.21 | 76.8 |
| 5/4/2015 5:43:16 | 45.93 | 43.63 | 1,405 | 1.84 | 0.21 | 76.8 |
| 5/4/2015 5:43:16 | 46.26 | 43.96 | 1,416 | 2.05 | 0.22 | 77.5 |
| 5/4/2015 5:43:17 | 46.59 | 44.29 | 1,416 | 2.05 | 0.22 | 77.5 |
| 5/4/2015 5:43:49 | 46.92 | 44.62 | 0 | 1.85 | 0.65 | 0.0 |
| 5/4/2015 5:43:50 | 47.24 | 44.94 | 76 | 2.31 | 0.93 | 4.2 |
| 5/4/2015 5:43:51 | 47.57 | 45.27 | 299 | 2.84 | 1.31 | 16.4 |
| 5/4/2015 5:44:06 | 47.90 | 45.60 | 6 | 2.70 | 1.07 | 0.3 |
| 5/4/2015 5:44:09 | 48.23 | 45.93 | 77 | 1.82 | 1.36 | 4.2 |
| 5/4/2015 5:44:10 | 48.56 | 46.26 | 63 | 2.40 | 1.23 | 3.4 |
| 5/4/2015 5:44:11 | 48.88 | 46.58 | 302 | 2.85 | 1.05 | 16.5 |
| 5/4/2015 5:44:13 | 49.21 | 46.91 | 320 | 2.82 | 1.08 | 17.5 |
| 5/4/2015 5:44:16 | 49.54 | 47.24 | 96 | 2.58 | 1.18 | 5.3 |
| 5/4/2015 5:44:23 | 49.87 | 47.57 | 106 | 2.73 | 0.95 | 5.8 |
| 5/4/2015 5:44:26 | 50.20 | 47.90 | 101 | 1.91 | 0.76 | 5.5 |
| 5/4/2015 5:44:30 | 50.53 | 48.23 | 58 | 2.47 | 0.97 | 3.2 |
| 5/4/2015 5:44:33 | 50.85 | 48.55 | 130 | 2.51 | 1.03 | 7.1 |
| 5/4/2015 5:44:40 | 51.18 | 48.88 | 37 | 2.74 | 1.12 | 2.0 |
| 5/4/2015 5:44:49 | 51.51 | 49.21 | 24 | 2.72 | 1.13 | 1.3 |
| 5/4/2015 5:44:56 | 51.84 | 49.54 | 44 | 2.69 | 1.15 | 2.4 |
| 5/4/2015 5:45:00 | 52.17 | 49.87 | 110 | 2.44 | 1.51 | 6.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:45:04 | 52.49 | 50.19 | 90 | 2.44 | 1.51 | 4.9 |
| 5/4/2015 | 5:45:07 | 52.82 | 50.52 | 118 | 1.87 | 1.44 | 6.4 |
| 5/4/2015 | 5:45:12 | 53.15 | 50.85 | 78 | 2.02 | 1.52 | 4.2 |
| 5/4/2015 | 5:45:57 | 53.48 | 51.18 | 60 | 2.12 | 1.11 | 3.3 |
| 5/4/2015 | 5:46:01 | 53.81 | 51.51 | 86 | 1.81 | 1.03 | 4.7 |
| 5/4/2015 | 5:46:04 | 54.13 | 51.83 | 170 | 1.92 | 1.44 | 9.3 |
| 5/4/2015 | 5:46:14 | 54.46 | 52.16 | 72 | 2.26 | 1.11 | 3.9 |
| 5/4/2015 | 5:46:17 | 54.79 | 52.49 | 100 | 2.17 | 1.09 | 5.4 |
| 5/4/2015 | 5:46:21 | 55.12 | 52.82 | 116 | 2.23 | 1.04 | 6.3 |
| 5/4/2015 | 5:46:24 | 55.45 | 53.15 | 115 | 2.17 | 1.14 | 6.3 |
| 5/4/2015 | 5:46:27 | 55.77 | 53.47 | 112 | 2.29 | 1.24 | 6.1 |
| 5/4/2015 | 5:46:32 | 56.10 | 53.80 | 64 | 2.21 | 1.72 | 3.5 |
| 5/4/2015 | 5:46:50 | 56.43 | 54.13 | 78 | 2.95 | 1.39 | 4.3 |
| 5/4/2015 | 5:46:53 | 56.76 | 54.46 | 84 | 2.96 | 1.61 | 4.6 |
| 5/4/2015 | 5:46:58 | 57.09 | 54.79 | 81 | 2.99 | 1.17 | 4.4 |
| 5/4/2015 | 5:47:02 | 57.41 | 55.11 | 95 | 2.99 | 1.14 | 5.2 |
| 5/4/2015 | 11:43:30 | 57.74 | 55.44 | 34 | 2.42 | 0.97 | 1.9 |
| 5/4/2015 | 11:43:31 | 58.07 | 55.77 | 193 | 2.47 | 1.00 | 10.6 |
| 5/4/2015 | 11:43:31 | 58.40 | 56.10 | 354 | 2.48 | 0.98 | 19.4 |
| 5/4/2015 | 11:43:32 | 58.73 | 56.43 | 354 | 2.48 | 0.98 | 19.4 |
| 5/4/2015 | 11:43:32 | 59.06 | 56.76 | 531 | 2.46 | 0.98 | 29.0 |
| 5/4/2015 | 11:43:32 | 59.38 | 57.08 | 704 | 2.55 | 1.05 | 38.5 |
| 5/4/2015 | 11:43:33 | 59.71 | 57.41 | 827 | 2.56 | 1.03 | 45.2 |
| 5/4/2015 | 11:43:33 | 60.04 | 57.74 | 828 | 2.46 | 0.98 | 45.3 |
| 5/4/2015 | 11:43:34 | 60.37 | 58.07 | 841 | 2.46 | 0.98 | 46.0 |
| 5/4/2015 | 11:43:35 | 60.70 | 58.40 | 841 | 2.46 | 0.98 | 46.0 |
| 5/4/2015 | 11:43:35 | 61.02 | 58.72 | 833 | 2.48 | 0.98 | 45.5 |
| 5/4/2015 | 11:43:35 | 61.35 | 59.05 | 827 | 2.49 | 0.99 | 45.2 |
| 5/4/2015 | 11:43:36 | 61.68 | 59.38 | 830 | 2.55 | 1.05 | 45.4 |
| 5/4/2015 | 11:43:36 | 62.01 | 59.71 | 818 | 2.23 | 0.99 | 44.7 |
| 5/4/2015 | 11:44:38 | 62.34 | 60.04 | 0 | 2.08 | 1.04 | 0.0 |
| 5/4/2015 | 11:45:35 | 62.66 | 60.36 | 0 | 2.08 | 1.04 | 0.0 |
| 5/4/2015 | 11:46:33 | 62.99 | 60.69 | 0 | 2.08 | 1.04 | 0.0 |
| 5/4/2015 | 11:45:36 | 63.32 | 61.02 | 193 | 2.70 | 1.03 | 10.5 |
| 5/4/2015 | 11:45:36 | 63.65 | 61.35 | 296 | 2.29 | 0.97 | 16.2 |
| 5/4/2015 | 11:45:37 | 63.98 | 61.68 | 453 | 2.27 | 1.01 | 24.8 |
| 5/4/2015 | 11:45:37 | 64.30 | 62.00 | 616 | 2.52 | 1.08 | 33.7 |
| 5/4/2015 | 11:45:38 | 64.63 | 62.33 | 745 | 0.34 | 1.00 | 40.7 |
| 5/4/2015 | 11:47:51 | 64.96 | 62.66 | 0 | 2.02 | 0.65 | 0.0 |
| 5/4/2015 | 11:47:51 | 65.29 | 62.99 | 124 | 2.29 | 0.67 | 6.8 |
| 5/4/2015 | 11:47:52 | 65.62 | 63.32 | 295 | 2.13 | 0.67 | 16.1 |
| 5/4/2015 | 11:47:52 | 65.95 | 63.65 | 498 | 2.08 | 0.65 | 27.2 |
| 5/4/2015 | 11:47:53 | 66.27 | 63.97 | 498 | 2.08 | 0.65 | 27.2 |
| 5/4/2015 | 11:47:55 | 66.60 | 64.30 | 426 | 1.94 | 0.23 | 23.3 |
| 5/4/2015 | 11:47:55 | 66.93 | 64.63 | 426 | 1.94 | 0.23 | 23.3 |
| 5/4/2015 | 11:47:55 | 67.26 | 64.96 | 418 | 1.39 | 0.04 | 22.8 |
| 5/4/2015 | 11:47:56 | 67.59 | 65.29 | 465 | 1.82 | 0.22 | 25.4 |
| 5/4/2015 | 11:47:56 | 67.91 | 65.61 | 659 | 1.83 | 0.20 | 36.0 |
| 5/4/2015 | 11:47:57 | 68.24 | 65.94 | 659 | 1.83 | 0.20 | 36.0 |
| 5/4/2015 | 11:47:57 | 68.57 | 66.27 | 857 | 1.93 | 0.20 | 46.8 |
| 5/4/2015 | 11:47:57 | 68.90 | 66.60 | 965 | 2.14 | 0.22 | 52.8 |
| 5/4/2015 | 11:47:58 | 69.23 | 66.93 | 945 | 1.84 | 0.17 | 51.7 |
| 5/4/2015 | 11:47:58 | 69.55 | 67.25 | 945 | 1.84 | 0.17 | 51.7 |
| 5/4/2015 | 11:47:58 | 69.88 | 67.58 | 945 | 1.83 | 0.19 | 51.7 |
| 5/4/2015 | 11:47:59 | 70.21 | 67.91 | 948 | 1.87 | 0.20 | 51.9 |
| 5/4/2015 | 11:47:59 | 70.54 | 68.24 | 948 | 1.87 | 0.20 | 51.9 |
| 5/4/2015 | 11:47:59 | 70.87 | 68.57 | 948 | 2.29 | 0.29 | 51.9 |
| 5/4/2015 | 11:50:33 | 71.19 | 68.89 | 0 | 1.47 | 0.18 | 0.0 |
| 5/4/2015 | 11:52:08 | 71.52 | 69.22 | 0 | 1.55 | 0.16 | 0.0 |
| 5/4/2015 | 11:52:09 | 71.85 | 69.55 | 144 | 1.66 | 0.15 | 7.9 |
| 5/4/2015 | 11:52:09 | 72.18 | 69.88 | 144 | 1.66 | 0.15 | 7.9 |
| 5/4/2015 | 11:52:09 | 72.51 | 70.21 | 321 | 1.68 | 0.16 | 17.6 |
| 5/4/2015 | 11:53:32 | 72.83 | 70.53 | 0 | 2.15 | 0.65 | 0.0 |

## Q1008 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 5:33:24

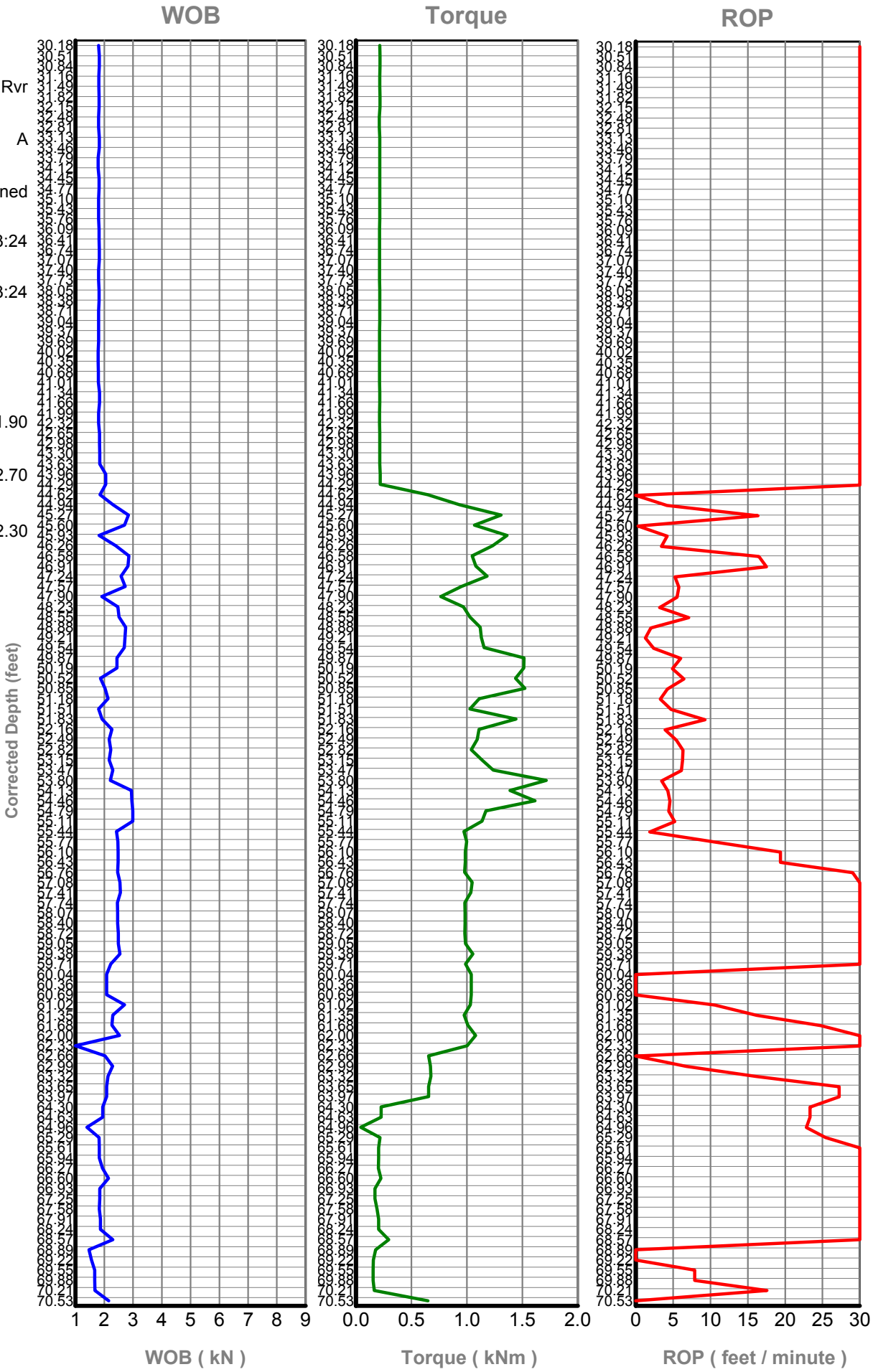
**End Date:**
5/4/2015 5:33:24

**Operator Note:**
'2.3 2.3 a'

**Northing:**
348,471.90

**Easting:**
223,832.70

**Tide (feet):**
2.30



## Hole: Q11 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:39:14 | 34.45 | 30.25 | 1,156 | 0.31 | 0.39 | 63.2 |
| 5/4/2015 3:39:15 | 34.78 | 30.58 | 1,156 | 0.32 | 0.38 | 63.2 |
| 5/4/2015 3:39:15 | 35.11 | 30.91 | 1,156 | 0.32 | 0.38 | 63.2 |
| 5/4/2015 3:39:15 | 35.43 | 31.23 | 1,166 | 0.32 | 0.39 | 63.8 |
| 5/4/2015 3:39:16 | 35.76 | 31.56 | 1,166 | 0.32 | 0.39 | 63.8 |
| 5/4/2015 3:39:16 | 36.09 | 31.89 | 1,130 | 0.32 | 0.39 | 61.8 |
| 5/4/2015 3:39:16 | 36.42 | 32.22 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/4/2015 3:39:17 | 36.75 | 32.55 | 1,130 | 0.32 | 0.38 | 61.8 |
| 5/4/2015 3:39:17 | 37.07 | 32.87 | 1,144 | 0.33 | 0.38 | 62.5 |
| 5/4/2015 3:39:17 | 37.40 | 33.20 | 1,144 | 0.33 | 0.38 | 62.5 |
| 5/4/2015 3:39:17 | 37.73 | 33.53 | 1,139 | 0.27 | 0.38 | 62.3 |
| 5/4/2015 3:39:18 | 38.06 | 33.86 | 1,139 | 0.27 | 0.38 | 62.3 |
| 5/4/2015 3:39:18 | 38.39 | 34.19 | 1,149 | 0.31 | 0.38 | 62.8 |
| 5/4/2015 3:39:18 | 38.71 | 34.51 | 1,136 | 0.31 | 0.39 | 62.1 |
| 5/4/2015 3:39:19 | 39.04 | 34.84 | 1,136 | 0.31 | 0.39 | 62.1 |
| 5/4/2015 3:39:19 | 39.37 | 35.17 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/4/2015 3:39:19 | 39.70 | 35.50 | 1,150 | 0.32 | 0.38 | 62.9 |
| 5/4/2015 3:39:19 | 40.03 | 35.83 | 1,150 | 0.32 | 0.37 | 62.9 |
| 5/4/2015 3:39:20 | 40.35 | 36.15 | 1,149 | 0.31 | 0.39 | 62.8 |
| 5/4/2015 3:39:20 | 40.68 | 36.48 | 1,149 | 0.31 | 0.39 | 62.8 |
| 5/4/2015 3:39:20 | 41.01 | 36.81 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/4/2015 3:39:21 | 41.34 | 37.14 | 1,145 | 0.32 | 0.38 | 62.6 |
| 5/4/2015 3:39:21 | 41.67 | 37.47 | 1,136 | 0.32 | 0.38 | 62.1 |
| 5/4/2015 3:39:22 | 41.99 | 37.79 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/4/2015 3:39:22 | 42.32 | 38.12 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/4/2015 3:39:22 | 42.65 | 38.45 | 1,166 | 0.32 | 0.38 | 63.7 |
| 5/4/2015 3:39:23 | 42.98 | 38.78 | 1,166 | 0.32 | 0.38 | 63.7 |
| 5/4/2015 3:39:23 | 43.31 | 39.11 | 1,151 | 0.31 | 0.38 | 62.9 |
| 5/4/2015 3:39:23 | 43.64 | 39.44 | 1,148 | 0.33 | 0.39 | 62.8 |
| 5/4/2015 3:39:24 | 43.96 | 39.76 | 1,148 | 0.33 | 0.39 | 62.8 |
| 5/4/2015 3:39:24 | 44.29 | 40.09 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/4/2015 3:39:24 | 44.62 | 40.42 | 1,161 | 0.33 | 0.38 | 63.5 |
| 5/4/2015 3:39:24 | 44.95 | 40.75 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/4/2015 3:39:25 | 45.28 | 41.08 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/4/2015 3:39:25 | 45.60 | 41.40 | 1,148 | 0.32 | 0.38 | 62.8 |
| 5/4/2015 3:39:25 | 45.93 | 41.73 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/4/2015 3:39:26 | 46.26 | 42.06 | 1,141 | 0.32 | 0.38 | 62.4 |
| 5/4/2015 3:39:26 | 46.59 | 42.39 | 1,151 | 0.32 | 0.38 | 62.9 |
| 5/4/2015 3:39:26 | 46.92 | 42.72 | 1,139 | 0.30 | 0.44 | 62.3 |
| 5/4/2015 3:39:35 | 47.24 | 43.04 | 58 | 5.55 | 0.49 | 3.2 |
| 5/4/2015 3:39:37 | 47.57 | 43.37 | 165 | 4.09 | 0.45 | 9.0 |
| 5/4/2015 3:39:40 | 47.90 | 43.70 | 147 | 3.48 | 0.47 | 8.0 |
| 5/4/2015 3:39:55 | 48.23 | 44.03 | 23 | 2.99 | 0.47 | 1.3 |
| 5/4/2015 3:40:09 | 48.56 | 44.36 | 27 | 2.86 | 0.41 | 1.5 |
| 5/4/2015 3:40:21 | 48.88 | 44.68 | 26 | 3.21 | 0.47 | 1.4 |

## Q11 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:37:46

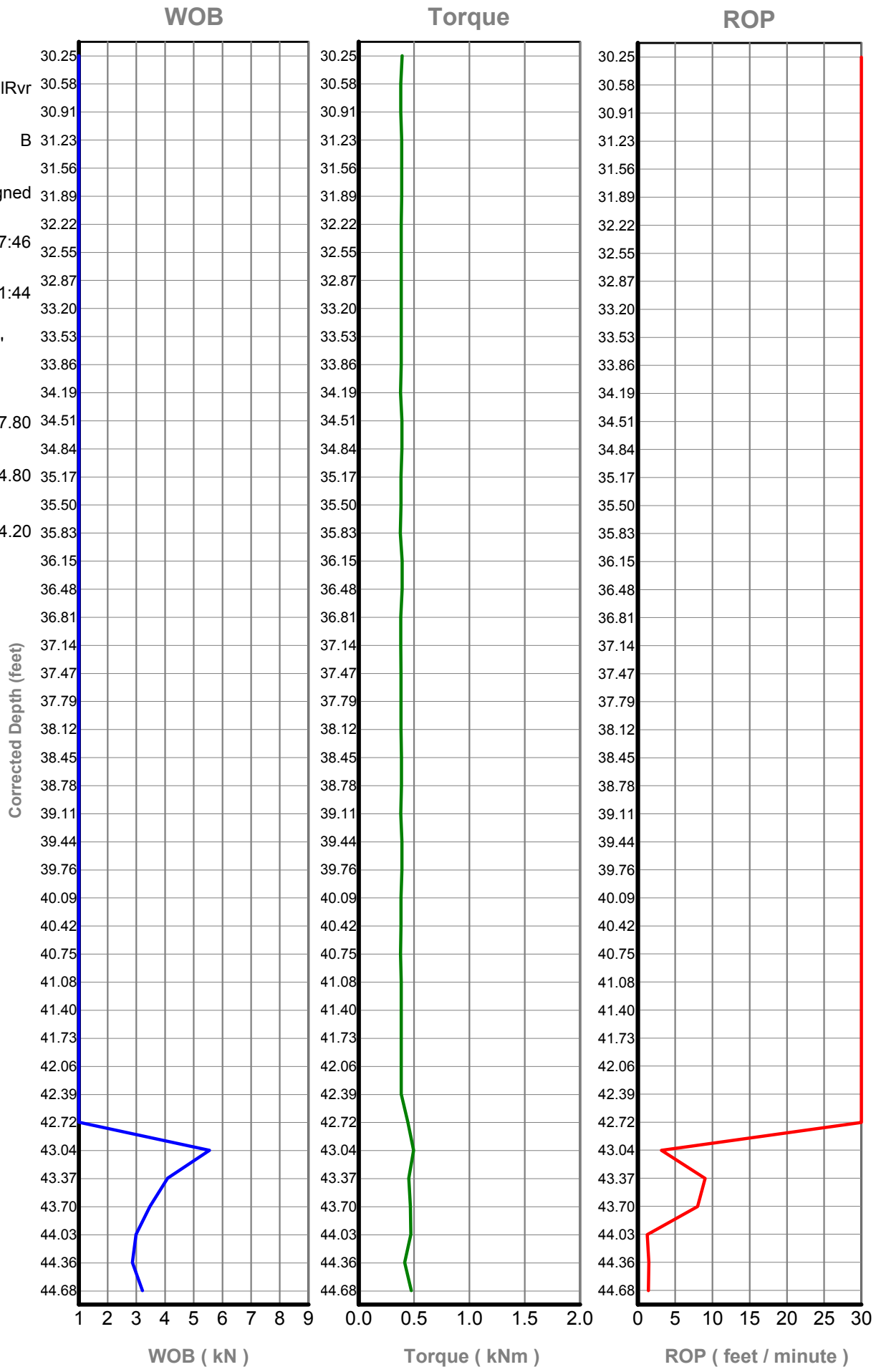
**End Date:**
5/4/2015 3:41:44

**Operator Note:**
'4.2 4.5b Auto Complete'

**Northing:**
348,707.80

**Easting:**
223,784.80

**Tide (feet):**
4.20



## Hole: Q12 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:37:17 | 34.45 | 30.25 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:17 | 34.78 | 30.58 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:17 | 35.11 | 30.91 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:18 | 35.43 | 31.23 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:18 | 35.76 | 31.56 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:18 | 36.09 | 31.89 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:19 | 36.42 | 32.22 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:19 | 36.75 | 32.55 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 3:37:19 | 37.07 | 32.87 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 3:37:20 | 37.40 | 33.20 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 3:37:20 | 37.73 | 33.53 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:20 | 38.06 | 33.86 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:21 | 38.39 | 34.19 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:21 | 38.71 | 34.51 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:22 | 39.04 | 34.84 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:22 | 39.37 | 35.17 | 1,041 | 1.14 | 0.29 | 56.9 |
| 5/4/2015 3:37:22 | 39.70 | 35.50 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 3:37:23 | 40.03 | 35.83 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/4/2015 3:37:23 | 40.35 | 36.15 | 1,038 | 1.14 | 0.29 | 56.7 |
| 5/4/2015 3:37:23 | 40.68 | 36.48 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 3:37:24 | 41.01 | 36.81 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:24 | 41.34 | 37.14 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:24 | 41.67 | 37.47 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 3:37:25 | 41.99 | 37.79 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 3:37:25 | 42.32 | 38.12 | 1,030 | 1.14 | 0.29 | 56.3 |
| 5/4/2015 3:37:25 | 42.65 | 38.45 | 1,038 | 1.14 | 0.29 | 56.8 |
| 5/4/2015 3:37:26 | 42.98 | 38.78 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 3:37:26 | 43.31 | 39.11 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 3:37:26 | 43.64 | 39.44 | 1,044 | 1.14 | 0.29 | 57.1 |
| 5/4/2015 3:37:27 | 43.96 | 39.76 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 3:37:27 | 44.29 | 40.09 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 3:37:27 | 44.62 | 40.42 | 1,026 | 1.14 | 0.29 | 56.1 |
| 5/4/2015 3:37:28 | 44.95 | 40.75 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 3:37:28 | 45.28 | 41.08 | 1,050 | 1.14 | 0.29 | 57.4 |
| 5/4/2015 3:37:28 | 45.60 | 41.40 | 1,042 | 1.14 | 0.29 | 57.0 |
| 5/4/2015 3:37:29 | 45.93 | 41.73 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:29 | 46.26 | 42.06 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:29 | 46.59 | 42.39 | 1,035 | 1.14 | 0.29 | 56.6 |
| 5/4/2015 3:37:30 | 46.92 | 42.72 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/4/2015 3:37:30 | 47.24 | 43.04 | 1,051 | 1.14 | 0.29 | 57.5 |
| 5/4/2015 3:37:30 | 47.57 | 43.37 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 3:37:31 | 47.90 | 43.70 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 3:37:31 | 48.23 | 44.03 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 3:37:47 | 48.56 | 44.36 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:38:01 | 48.88 | 44.68 | 112 | 1.14 | 0.29 | 6.1 |
| 5/4/2015 3:38:11 | 49.21 | 45.01 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:38:15 | 49.54 | 45.34 | 74 | 1.14 | 0.29 | 4.0 |
| 5/4/2015 3:38:18 | 49.87 | 45.67 | 31 | 1.14 | 0.29 | 1.7 |
| 5/4/2015 3:38:23 | 50.20 | 46.00 | 32 | 1.14 | 0.29 | 1.8 |
| 5/4/2015 3:38:31 | 50.53 | 46.33 | 9 | 1.14 | 0.29 | 0.5 |
| 5/4/2015 3:38:41 | 50.85 | 46.65 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:38:47 | 51.18 | 46.98 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:38:49 | 51.51 | 47.31 | 191 | 1.14 | 0.29 | 10.4 |
| 5/4/2015 3:39:11 | 51.84 | 47.64 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:39:21 | 52.17 | 47.97 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 3:39:33 | 52.49 | 48.29 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 3:39:38 | 52.82 | 48.62 | 64 | 1.14 | 0.29 | 3.5 |
| 5/4/2015 3:39:41 | 53.15 | 48.95 | 112 | 1.14 | 0.29 | 6.1 |
| 5/4/2015 3:39:45 | 53.48 | 49.28 | 105 | 1.14 | 0.29 | 5.7 |
| 5/4/2015 3:39:49 | 53.81 | 49.61 | 96 | 1.14 | 0.29 | 5.2 |
| 5/4/2015 3:39:52 | 54.13 | 49.93 | 98 | 1.14 | 0.29 | 5.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 3:40:15 | 54.46 | 50.26 | 1 | 1.14 | 0.29 | 0.1 |
| 5/4/2015 | 3:40:22 | 54.79 | 50.59 | 55 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 | 3:41:37 | 55.12 | 50.92 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 | 3:55:44 | 55.45 | 51.25 | 35 | 1.14 | 0.29 | 1.9 |
| 5/4/2015 | 3:55:57 | 55.77 | 51.57 | 26 | 1.14 | 0.29 | 1.4 |
| 5/4/2015 | 3:56:09 | 56.10 | 51.90 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 | 3:56:13 | 56.43 | 52.23 | 111 | 1.14 | 0.29 | 6.1 |
| 5/4/2015 | 3:56:37 | 56.76 | 52.56 | 14 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 | 3:56:42 | 57.09 | 52.89 | 65 | 1.14 | 0.29 | 3.6 |
| 5/4/2015 | 3:56:54 | 57.41 | 53.21 | 27 | 1.14 | 0.29 | 1.5 |

## Q12 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:36:21

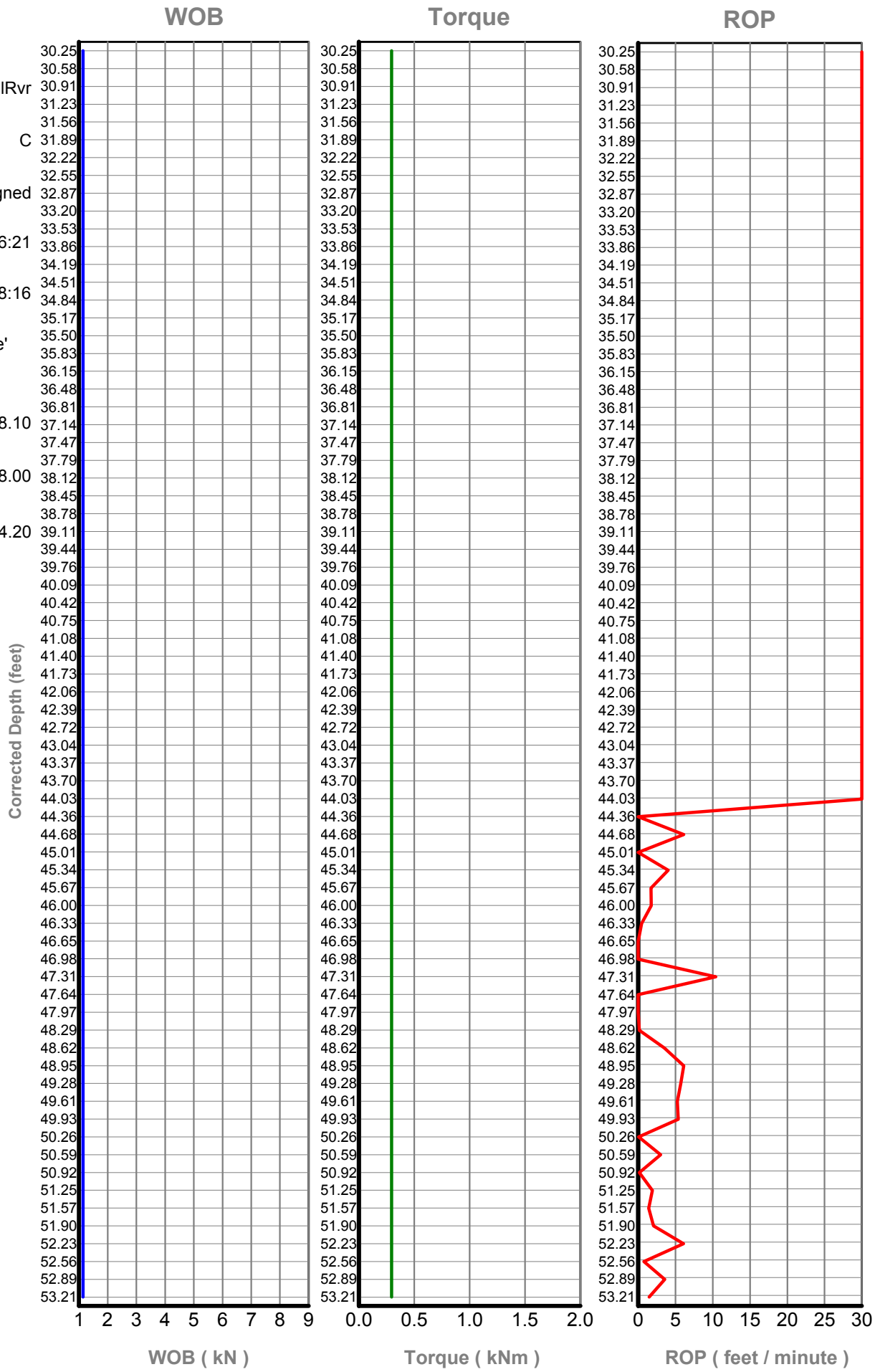
**End Date:**
5/4/2015 3:58:16

**Operator Note:**
'4.2 4.5 c Auto Complete'

**Northing:**
348,748.10

**Easting:**
223,848.00

**Tide (feet):**
4.20



## Hole: Q13 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:56:24 | 33.14 | 30.14 | 1,005 | 1.65 | 0.22 | 54.9 |
| 5/4/2015 4:56:24 | 33.46 | 30.46 | 1,255 | 1.67 | 0.22 | 68.6 |
| 5/4/2015 4:56:25 | 33.79 | 30.79 | 1,255 | 1.67 | 0.22 | 68.6 |
| 5/4/2015 4:56:25 | 34.12 | 31.12 | 1,237 | 1.64 | 0.21 | 67.6 |
| 5/4/2015 4:56:25 | 34.45 | 31.45 | 1,237 | 1.64 | 0.21 | 67.6 |
| 5/4/2015 4:56:25 | 34.78 | 31.78 | 1,237 | 1.64 | 0.22 | 67.6 |
| 5/4/2015 4:56:26 | 35.11 | 32.11 | 1,248 | 1.66 | 0.22 | 68.3 |
| 5/4/2015 4:56:26 | 35.43 | 32.43 | 1,248 | 1.66 | 0.22 | 68.3 |
| 5/4/2015 4:56:26 | 35.76 | 32.76 | 1,283 | 1.64 | 0.21 | 70.1 |
| 5/4/2015 4:56:27 | 36.09 | 33.09 | 1,283 | 1.64 | 0.21 | 70.1 |
| 5/4/2015 4:56:27 | 36.42 | 33.42 | 1,258 | 1.62 | 0.22 | 68.8 |
| 5/4/2015 4:56:27 | 36.75 | 33.75 | 1,258 | 1.62 | 0.22 | 68.8 |
| 5/4/2015 4:56:27 | 37.07 | 34.07 | 1,261 | 1.62 | 0.21 | 69.0 |
| 5/4/2015 4:56:28 | 37.40 | 34.40 | 1,261 | 1.62 | 0.21 | 69.0 |
| 5/4/2015 4:56:28 | 37.73 | 34.73 | 1,288 | 1.64 | 0.21 | 70.4 |
| 5/4/2015 4:56:28 | 38.06 | 35.06 | 1,288 | 1.64 | 0.21 | 70.4 |
| 5/4/2015 4:56:28 | 38.39 | 35.39 | 1,277 | 1.64 | 0.21 | 69.8 |
| 5/4/2015 4:56:29 | 38.71 | 35.71 | 1,277 | 1.64 | 0.21 | 69.8 |
| 5/4/2015 4:56:29 | 39.04 | 36.04 | 1,262 | 1.63 | 0.21 | 69.0 |
| 5/4/2015 4:56:29 | 39.37 | 36.37 | 1,275 | 1.62 | 0.21 | 69.7 |
| 5/4/2015 4:56:30 | 39.70 | 36.70 | 1,275 | 1.62 | 0.21 | 69.7 |
| 5/4/2015 4:56:30 | 40.03 | 37.03 | 1,269 | 1.62 | 0.21 | 69.4 |
| 5/4/2015 4:56:31 | 40.35 | 37.35 | 1,269 | 1.62 | 0.21 | 69.4 |
| 5/4/2015 4:56:31 | 40.68 | 37.68 | 1,267 | 1.62 | 0.21 | 69.3 |
| 5/4/2015 4:56:31 | 41.01 | 38.01 | 1,267 | 1.62 | 0.21 | 69.3 |
| 5/4/2015 4:56:31 | 41.34 | 38.34 | 1,259 | 1.64 | 0.21 | 68.8 |
| 5/4/2015 4:56:32 | 41.67 | 38.67 | 1,259 | 1.64 | 0.21 | 68.8 |
| 5/4/2015 4:56:32 | 41.99 | 38.99 | 1,274 | 1.64 | 0.21 | 69.7 |
| 5/4/2015 4:56:32 | 42.32 | 39.32 | 1,274 | 1.64 | 0.21 | 69.7 |
| 5/4/2015 4:56:32 | 42.65 | 39.65 | 1,260 | 1.63 | 0.21 | 68.9 |
| 5/4/2015 4:56:33 | 42.98 | 39.98 | 1,260 | 1.63 | 0.22 | 68.9 |
| 5/4/2015 4:56:33 | 43.31 | 40.31 | 1,260 | 1.63 | 0.22 | 68.9 |
| 5/4/2015 4:56:33 | 43.64 | 40.64 | 1,260 | 1.66 | 0.21 | 68.9 |
| 5/4/2015 4:56:34 | 43.96 | 40.96 | 1,260 | 1.66 | 0.21 | 68.9 |
| 5/4/2015 4:56:34 | 44.29 | 41.29 | 1,258 | 1.67 | 0.21 | 68.8 |
| 5/4/2015 4:56:34 | 44.62 | 41.62 | 1,258 | 1.67 | 0.21 | 68.8 |
| 5/4/2015 4:56:34 | 44.95 | 41.95 | 1,252 | 1.61 | 0.21 | 68.4 |
| 5/4/2015 4:56:35 | 45.28 | 42.28 | 1,252 | 1.61 | 0.21 | 68.4 |
| 5/4/2015 4:56:35 | 45.60 | 42.60 | 1,252 | 1.63 | 0.21 | 68.4 |
| 5/4/2015 4:56:35 | 45.93 | 42.93 | 1,252 | 1.63 | 0.21 | 68.4 |
| 5/4/2015 4:56:35 | 46.26 | 43.26 | 1,233 | 1.63 | 0.21 | 67.4 |
| 5/4/2015 4:56:36 | 46.59 | 43.59 | 1,251 | 1.82 | 0.22 | 68.4 |
| 5/4/2015 4:56:36 | 46.92 | 43.92 | 1,251 | 1.82 | 0.22 | 68.4 |
| 5/4/2015 4:56:57 | 47.24 | 44.24 | 46 | 2.14 | 1.60 | 2.5 |
| 5/4/2015 4:57:00 | 47.57 | 44.57 | 133 | 2.87 | 0.96 | 7.3 |
| 5/4/2015 4:57:03 | 47.90 | 44.90 | 165 | 2.74 | 1.33 | 9.0 |
| 5/4/2015 4:57:07 | 48.23 | 45.23 | 54 | 2.25 | 0.84 | 3.0 |
| 5/4/2015 4:57:07 | 48.56 | 45.56 | 54 | 2.25 | 0.84 | 3.0 |
| 5/4/2015 4:57:07 | 48.88 | 45.88 | 129 | 2.55 | 1.00 | 7.1 |
| 5/4/2015 4:57:09 | 49.21 | 46.21 | 358 | 2.44 | 0.94 | 19.6 |
| 5/4/2015 4:57:11 | 49.54 | 46.54 | 235 | 2.27 | 0.87 | 12.9 |
| 5/4/2015 4:57:14 | 49.87 | 46.87 | 162 | 2.04 | 0.79 | 8.9 |
| 5/4/2015 4:57:15 | 50.20 | 47.20 | 162 | 2.42 | 0.91 | 8.9 |
| 5/4/2015 4:57:15 | 50.53 | 47.53 | 191 | 2.46 | 0.94 | 10.5 |
| 5/4/2015 4:57:16 | 50.85 | 47.85 | 287 | 2.26 | 0.91 | 15.7 |
| 5/4/2015 4:57:18 | 51.18 | 48.18 | 425 | 2.00 | 0.81 | 23.2 |
| 5/4/2015 4:57:19 | 51.51 | 48.51 | 269 | 2.85 | 1.02 | 14.7 |
| 5/4/2015 4:57:24 | 51.84 | 48.84 | 31 | 3.07 | 1.50 | 1.7 |
| 5/4/2015 4:57:36 | 52.17 | 49.17 | 44 | 3.03 | 1.50 | 2.4 |
| 5/4/2015 4:58:03 | 52.49 | 49.49 | 9 | 2.82 | 1.44 | 0.5 |
| 5/4/2015 4:58:07 | 52.82 | 49.82 | 96 | 2.89 | 1.47 | 5.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 4:58:10 | 53.15 | 50.15 | 105 | 2.93 | 1.35 | 5.8 |
| 5/4/2015 | 4:58:13 | 53.48 | 50.48 | 127 | 1.95 | 1.29 | 7.0 |
| 5/4/2015 | 4:58:17 | 53.81 | 50.81 | 99 | 2.91 | 1.47 | 5.4 |
| 5/4/2015 | 4:58:20 | 54.13 | 51.13 | 134 | 2.90 | 1.22 | 7.3 |
| 5/4/2015 | 4:58:23 | 54.46 | 51.46 | 116 | 2.86 | 1.45 | 6.3 |
| 5/4/2015 | 4:58:26 | 54.79 | 51.79 | 124 | 3.01 | 1.43 | 6.8 |
| 5/4/2015 | 4:58:29 | 55.12 | 52.12 | 114 | 2.93 | 1.36 | 6.2 |
| 5/4/2015 | 4:58:32 | 55.45 | 52.45 | 122 | 2.88 | 1.29 | 6.6 |
| 5/4/2015 | 4:58:36 | 55.77 | 52.77 | 119 | 2.88 | 1.48 | 6.5 |
| 5/4/2015 | 4:58:39 | 56.10 | 53.10 | 113 | 2.92 | 1.42 | 6.2 |
| 5/4/2015 | 4:58:48 | 56.43 | 53.43 | 40 | 2.87 | 1.11 | 2.2 |
| 5/4/2015 | 4:59:08 | 56.76 | 53.76 | 32 | 2.42 | 1.06 | 1.7 |
| 5/4/2015 | 4:59:17 | 57.09 | 54.09 | 37 | 2.49 | 1.15 | 2.0 |
| 5/4/2015 | 4:59:28 | 57.41 | 54.41 | 35 | 2.46 | 0.99 | 1.9 |
| 5/4/2015 | 4:59:39 | 57.74 | 54.74 | 31 | 2.47 | 0.91 | 1.7 |
| 5/4/2015 | 4:59:42 | 57.83 | 54.83 | 31 | 2.55 | 1.00 | 1.7 |

## Q13 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:49:31

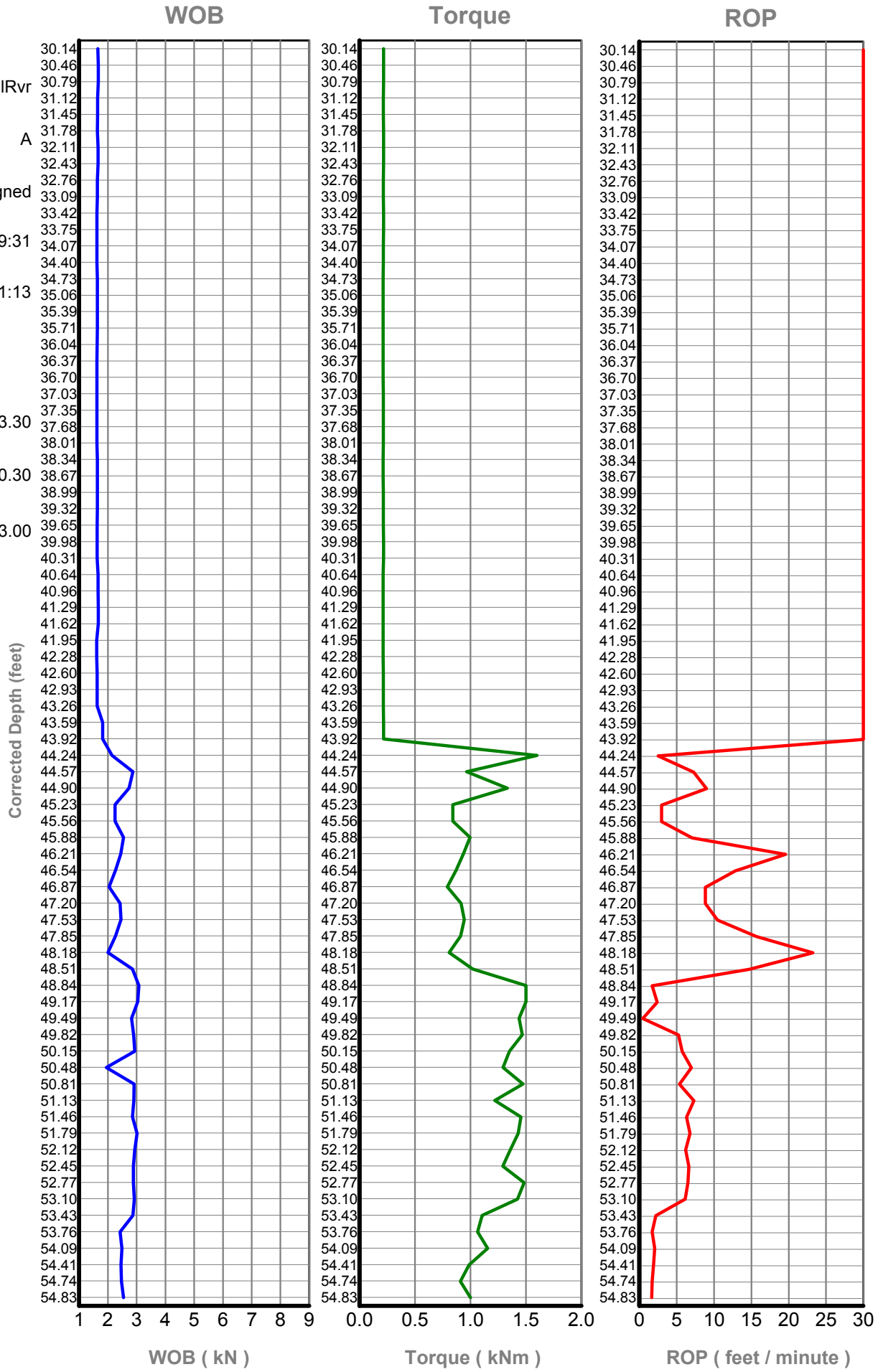
**End Date:**
5/4/2015 5:01:13

**Operator Note:**
'3 3 a Auto Complete'

**Northing:**
348,483.30

**Easting:**
223,570.30

**Tide (feet):**
3.00



## Hole: Q14 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:57:29 | 32.81 | 30.01 | 1,234 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 4:57:30 | 33.14 | 30.34 | 1,234 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 4:57:30 | 33.46 | 30.66 | 1,230 | 0.30 | 0.37 | 67.3 |
| 5/4/2015 4:57:30 | 33.79 | 30.99 | 1,230 | 0.30 | 0.37 | 67.3 |
| 5/4/2015 4:57:30 | 34.12 | 31.32 | 1,234 | 0.55 | 0.38 | 67.5 |
| 5/4/2015 4:57:31 | 34.45 | 31.65 | 1,234 | 0.55 | 0.38 | 67.5 |
| 5/4/2015 4:57:31 | 34.78 | 31.98 | 1,210 | 0.30 | 0.38 | 66.2 |
| 5/4/2015 4:57:31 | 35.11 | 32.31 | 1,210 | 0.30 | 0.38 | 66.2 |
| 5/4/2015 4:57:31 | 35.43 | 32.63 | 1,210 | 0.33 | 0.37 | 66.2 |
| 5/4/2015 4:57:32 | 35.76 | 32.96 | 1,225 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:57:32 | 36.09 | 33.29 | 1,225 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:57:32 | 36.42 | 33.62 | 1,225 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:57:33 | 36.75 | 33.95 | 1,225 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:57:33 | 37.07 | 34.27 | 1,226 | 0.30 | 0.37 | 67.1 |
| 5/4/2015 4:57:33 | 37.40 | 34.60 | 1,226 | 0.30 | 0.37 | 67.1 |
| 5/4/2015 4:57:33 | 37.73 | 34.93 | 1,192 | 0.31 | 0.37 | 65.2 |
| 5/4/2015 4:57:34 | 38.06 | 35.26 | 1,192 | 0.30 | 0.37 | 65.2 |
| 5/4/2015 4:57:34 | 38.39 | 35.59 | 1,192 | 0.30 | 0.37 | 65.2 |
| 5/4/2015 4:57:34 | 38.71 | 35.91 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/4/2015 4:57:35 | 39.04 | 36.24 | 1,234 | 0.31 | 0.38 | 67.5 |
| 5/4/2015 4:57:35 | 39.37 | 36.57 | 1,219 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 4:57:35 | 39.70 | 36.90 | 1,219 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 4:57:35 | 40.03 | 37.23 | 1,219 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 4:57:36 | 40.35 | 37.55 | 1,219 | 0.31 | 0.37 | 66.7 |
| 5/4/2015 4:57:36 | 40.68 | 37.88 | 1,218 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 4:57:36 | 41.01 | 38.21 | 1,218 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 4:57:36 | 41.34 | 38.54 | 1,245 | 0.30 | 0.37 | 68.1 |
| 5/4/2015 4:57:37 | 41.67 | 38.87 | 1,235 | 0.31 | 0.37 | 67.5 |
| 5/4/2015 4:57:38 | 41.99 | 39.19 | 1,235 | 0.31 | 0.37 | 67.5 |
| 5/4/2015 4:57:38 | 42.32 | 39.52 | 1,235 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 4:57:38 | 42.65 | 39.85 | 1,235 | 0.30 | 0.36 | 67.5 |
| 5/4/2015 4:57:38 | 42.98 | 40.18 | 1,228 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 4:57:39 | 43.31 | 40.51 | 1,228 | 0.30 | 0.37 | 67.2 |
| 5/4/2015 4:57:39 | 43.64 | 40.84 | 1,235 | 0.31 | 0.38 | 67.5 |
| 5/4/2015 4:57:39 | 43.96 | 41.16 | 1,235 | 0.31 | 0.38 | 67.5 |
| 5/4/2015 4:57:39 | 44.29 | 41.49 | 1,214 | 0.30 | 0.36 | 66.4 |
| 5/4/2015 4:57:40 | 44.62 | 41.82 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/4/2015 4:57:40 | 44.95 | 42.15 | 1,214 | 0.31 | 0.37 | 66.4 |
| 5/4/2015 4:57:40 | 45.28 | 42.48 | 1,219 | 0.31 | 0.36 | 66.7 |
| 5/4/2015 4:57:41 | 45.60 | 42.80 | 1,219 | 0.31 | 0.36 | 66.7 |
| 5/4/2015 4:57:41 | 45.93 | 43.13 | 1,222 | 0.31 | 0.37 | 66.8 |
| 5/4/2015 4:57:41 | 46.26 | 43.46 | 1,222 | 0.31 | 0.37 | 66.8 |
| 5/4/2015 4:57:41 | 46.59 | 43.79 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/4/2015 4:57:42 | 46.92 | 44.12 | 1,232 | 0.31 | 0.38 | 67.4 |
| 5/4/2015 4:57:42 | 47.24 | 44.44 | 1,128 | 0.27 | 0.47 | 61.7 |
| 5/4/2015 4:57:50 | 47.57 | 44.77 | 56 | 4.26 | 0.47 | 3.1 |
| 5/4/2015 4:57:52 | 47.90 | 45.10 | 121 | 3.34 | 0.45 | 6.6 |
| 5/4/2015 4:57:52 | 48.23 | 45.43 | 180 | 2.23 | 0.39 | 9.8 |
| 5/4/2015 4:57:53 | 48.56 | 45.76 | 180 | 2.14 | 0.42 | 9.8 |
| 5/4/2015 4:57:53 | 48.88 | 46.08 | 285 | 2.09 | 0.40 | 15.6 |
| 5/4/2015 4:57:54 | 49.21 | 46.41 | 413 | 2.33 | 0.42 | 22.6 |
| 5/4/2015 4:57:55 | 49.54 | 46.74 | 534 | 2.74 | 0.45 | 29.2 |
| 5/4/2015 4:57:59 | 49.87 | 47.07 | 95 | 2.84 | 0.46 | 5.2 |
| 5/4/2015 4:58:07 | 50.20 | 47.40 | 0 | 2.26 | 0.43 | 0.0 |
| 5/4/2015 4:58:14 | 50.53 | 47.73 | 35 | 2.92 | 0.46 | 1.9 |
| 5/4/2015 4:58:19 | 50.85 | 48.05 | 67 | 2.95 | 0.46 | 3.7 |
| 5/4/2015 4:58:24 | 51.18 | 48.38 | 84 | 3.17 | 0.45 | 4.6 |
| 5/4/2015 4:58:27 | 51.51 | 48.71 | 110 | 3.14 | 0.45 | 6.0 |
| 5/4/2015 4:58:29 | 51.84 | 49.04 | 138 | 2.67 | 0.45 | 7.5 |
| 5/4/2015 4:58:37 | 52.17 | 49.37 | 68 | 3.03 | 0.45 | 3.7 |
| 5/4/2015 4:58:41 | 52.49 | 49.69 | 96 | 3.67 | 0.45 | 5.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 4:58:47 | 52.82 | 50.02 | 34 | 2.69 | 0.46 | 1.8 |
| 5/4/2015 | 4:59:00 | 53.15 | 50.35 | 26 | 2.48 | 0.46 | 1.4 |
| 5/4/2015 | 4:59:12 | 53.48 | 50.68 | 32 | 2.78 | 0.46 | 1.7 |
| 5/4/2015 | 4:59:24 | 53.81 | 51.01 | 32 | 2.73 | 0.46 | 1.7 |

## Q14 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:55:52

**End Date:**
5/4/2015 5:00:58

**Operator Note:**
'2.8 2.9b Auto Complete'

**Northing:**
348,524.40

**Easting:**
223,633.10

**Tide (feet):**
2.80



## Hole: Q15 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:55:41 | 32.81 | 30.01 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:42 | 33.14 | 30.34 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:42 | 33.46 | 30.66 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:42 | 33.79 | 30.99 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:43 | 34.12 | 31.32 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:43 | 34.45 | 31.65 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/4/2015 4:55:43 | 34.78 | 31.98 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:55:44 | 35.11 | 32.31 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:55:44 | 35.43 | 32.63 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:44 | 35.76 | 32.96 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:44 | 36.09 | 33.29 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:55:45 | 36.42 | 33.62 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:55:45 | 36.75 | 33.95 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:55:45 | 37.07 | 34.27 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:46 | 37.40 | 34.60 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:46 | 37.73 | 34.93 | 1,103 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:47 | 38.06 | 35.26 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/4/2015 4:55:47 | 38.39 | 35.59 | 1,115 | 1.14 | 0.29 | 61.0 |
| 5/4/2015 4:55:47 | 38.71 | 35.91 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/4/2015 4:55:48 | 39.04 | 36.24 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/4/2015 4:55:48 | 39.37 | 36.57 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/4/2015 4:55:48 | 39.70 | 36.90 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:55:49 | 40.03 | 37.23 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:55:49 | 40.35 | 37.55 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:55:49 | 40.68 | 37.88 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:55:50 | 41.01 | 38.21 | 1,100 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:55:50 | 41.34 | 38.54 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:55:50 | 41.67 | 38.87 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:51 | 41.99 | 39.19 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:55:51 | 42.32 | 39.52 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:51 | 42.65 | 39.85 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:52 | 42.98 | 40.18 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:55:52 | 43.31 | 40.51 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:52 | 43.64 | 40.84 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:52 | 43.96 | 41.16 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 4:55:53 | 44.29 | 41.49 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:53 | 44.62 | 41.82 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:55:53 | 44.95 | 42.15 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:55:54 | 45.28 | 42.48 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:55:54 | 45.60 | 42.80 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:55:54 | 45.93 | 43.13 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:55:55 | 46.26 | 43.46 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:55:55 | 46.59 | 43.79 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:56:06 | 46.92 | 44.12 | 56 | 1.14 | 0.29 | 3.1 |
| 5/4/2015 4:56:25 | 47.24 | 44.44 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:56:28 | 47.57 | 44.77 | 66 | 1.14 | 0.29 | 3.6 |
| 5/4/2015 4:56:32 | 47.90 | 45.10 | 23 | 1.14 | 0.29 | 1.3 |
| 5/4/2015 4:56:38 | 48.23 | 45.43 | 12 | 1.14 | 0.29 | 0.6 |
| 5/4/2015 4:56:39 | 48.56 | 45.76 | 59 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 4:56:40 | 48.88 | 46.08 | 294 | 1.14 | 0.29 | 16.1 |
| 5/4/2015 4:56:43 | 49.21 | 46.41 | 69 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 4:56:44 | 49.54 | 46.74 | 204 | 1.14 | 0.29 | 11.2 |
| 5/4/2015 4:57:24 | 49.87 | 47.07 | 9 | 1.14 | 0.29 | 0.5 |
| 5/4/2015 4:58:02 | 50.20 | 47.40 | 14 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 4:58:03 | 50.53 | 47.73 | 170 | 1.14 | 0.29 | 9.3 |
| 5/4/2015 4:58:47 | 50.85 | 48.05 | 6 | 1.14 | 0.29 | 0.3 |
| 5/4/2015 4:58:50 | 51.18 | 48.38 | 120 | 1.14 | 0.29 | 6.6 |
| 5/4/2015 4:59:36 | 51.51 | 48.71 | 32 | 1.14 | 0.29 | 1.7 |
| 5/4/2015 5:00:10 | 51.84 | 49.04 | 83 | 1.14 | 0.29 | 4.5 |
| 5/4/2015 5:00:25 | 52.17 | 49.37 | 44 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 5:00:32 | 52.49 | 49.69 | 52 | 1.14 | 0.29 | 2.9 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 5:00:37 | 52.82 | 50.02 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 | 5:00:45 | 53.15 | 50.35 | 61 | 1.14 | 0.29 | 3.3 |
| 5/4/2015 | 5:00:54 | 53.48 | 50.68 | 32 | 1.14 | 0.29 | 1.7 |
| 5/4/2015 | 5:01:01 | 53.81 | 51.01 | 58 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 | 5:01:30 | 54.13 | 51.33 | 52 | 1.14 | 0.29 | 2.9 |
| 5/4/2015 | 5:01:41 | 54.46 | 51.66 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 | 5:01:57 | 54.79 | 51.99 | 58 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 | 5:02:05 | 55.12 | 52.32 | 44 | 1.14 | 0.29 | 2.4 |
| 5/4/2015 | 5:02:08 | 55.25 | 52.45 | 32 | 1.14 | 0.29 | 1.7 |

## Q15 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:54:43

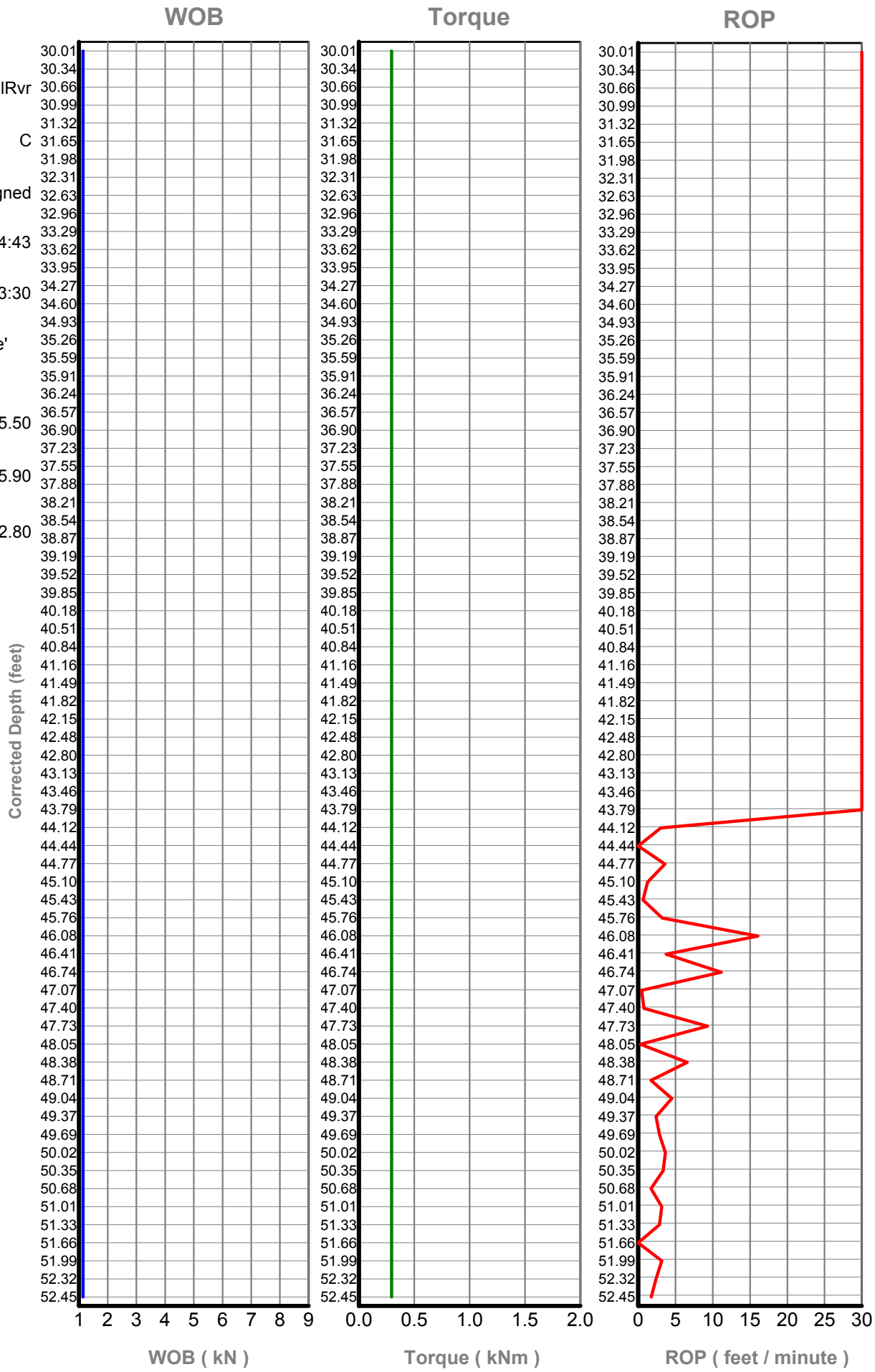
**End Date:**
5/4/2015 5:03:30

**Operator Note:**
'2.8 3.0 c Auto Complete'

**Northing:**
348,565.50

**Easting:**
223,695.90

**Tide (feet):**
2.80



## Hole: Q16 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:21:17 | 34.78 | 30.08 | 1,338 | 1.88 | 0.79 | 73.2 |
| 5/4/2015 3:21:17 | 35.11 | 30.41 | 1,338 | 1.88 | 0.79 | 73.2 |
| 5/4/2015 3:21:17 | 35.43 | 30.73 | 1,320 | 1.87 | 0.80 | 72.2 |
| 5/4/2015 3:21:18 | 35.76 | 31.06 | 1,320 | 1.87 | 0.80 | 72.2 |
| 5/4/2015 3:21:18 | 36.09 | 31.39 | 1,320 | 1.88 | 0.78 | 72.2 |
| 5/4/2015 3:21:18 | 36.42 | 31.72 | 1,320 | 1.88 | 0.78 | 72.2 |
| 5/4/2015 3:21:18 | 36.75 | 32.05 | 1,289 | 1.89 | 0.79 | 70.5 |
| 5/4/2015 3:21:19 | 37.07 | 32.37 | 1,289 | 1.89 | 0.79 | 70.5 |
| 5/4/2015 3:21:19 | 37.40 | 32.70 | 1,289 | 1.88 | 0.79 | 70.5 |
| 5/4/2015 3:21:19 | 37.73 | 33.03 | 1,289 | 1.88 | 0.79 | 70.5 |
| 5/4/2015 3:21:19 | 38.06 | 33.36 | 1,316 | 1.87 | 0.79 | 72.0 |
| 5/4/2015 3:21:20 | 38.39 | 33.69 | 1,316 | 1.87 | 0.79 | 72.0 |
| 5/4/2015 3:21:20 | 38.71 | 34.01 | 1,312 | 1.89 | 0.80 | 71.8 |
| 5/4/2015 3:21:20 | 39.04 | 34.34 | 1,312 | 1.89 | 0.80 | 71.8 |
| 5/4/2015 3:21:20 | 39.37 | 34.67 | 1,312 | 1.88 | 0.79 | 71.7 |
| 5/4/2015 3:21:21 | 39.70 | 35.00 | 1,312 | 1.88 | 0.79 | 71.7 |
| 5/4/2015 3:21:21 | 40.03 | 35.33 | 1,325 | 1.88 | 0.79 | 72.4 |
| 5/4/2015 3:21:21 | 40.35 | 35.65 | 1,325 | 1.88 | 0.79 | 72.4 |
| 5/4/2015 3:21:21 | 40.68 | 35.98 | 1,306 | 1.98 | 0.37 | 71.4 |
| 5/4/2015 3:21:22 | 41.01 | 36.31 | 1,306 | 1.98 | 0.37 | 71.4 |
| 5/4/2015 3:21:22 | 41.34 | 36.64 | 1,306 | 1.87 | 0.23 | 71.4 |
| 5/4/2015 3:21:22 | 41.67 | 36.97 | 1,306 | 1.87 | 0.23 | 71.4 |
| 5/4/2015 3:21:22 | 41.99 | 37.29 | 1,312 | 1.85 | 0.23 | 71.7 |
| 5/4/2015 3:21:23 | 42.32 | 37.62 | 1,312 | 1.85 | 0.23 | 71.7 |
| 5/4/2015 3:21:23 | 42.65 | 37.95 | 1,308 | 1.85 | 0.24 | 71.5 |
| 5/4/2015 3:21:23 | 42.98 | 38.28 | 1,312 | 1.85 | 0.23 | 71.7 |
| 5/4/2015 3:21:24 | 43.31 | 38.61 | 1,312 | 1.85 | 0.23 | 71.7 |
| 5/4/2015 3:21:24 | 43.64 | 38.94 | 1,320 | 1.87 | 0.23 | 72.2 |
| 5/4/2015 3:21:24 | 43.96 | 39.26 | 1,320 | 1.87 | 0.23 | 72.2 |
| 5/4/2015 3:21:24 | 44.29 | 39.59 | 1,359 | 1.89 | 0.23 | 74.3 |
| 5/4/2015 3:21:25 | 44.62 | 39.92 | 1,359 | 1.89 | 0.23 | 74.3 |
| 5/4/2015 3:21:25 | 44.95 | 40.25 | 1,338 | 1.85 | 0.23 | 73.2 |
| 5/4/2015 3:21:26 | 45.28 | 40.58 | 1,338 | 1.85 | 0.23 | 73.2 |
| 5/4/2015 3:21:26 | 45.60 | 40.90 | 1,316 | 1.86 | 0.23 | 72.0 |
| 5/4/2015 3:21:26 | 45.93 | 41.23 | 1,316 | 1.86 | 0.23 | 72.0 |
| 5/4/2015 3:21:26 | 46.26 | 41.56 | 1,314 | 1.85 | 0.23 | 71.9 |
| 5/4/2015 3:21:27 | 46.59 | 41.89 | 1,314 | 1.85 | 0.23 | 71.9 |
| 5/4/2015 3:21:27 | 46.92 | 42.22 | 1,300 | 1.88 | 0.23 | 71.1 |
| 5/4/2015 3:21:27 | 47.24 | 42.54 | 1,300 | 1.88 | 0.23 | 71.1 |
| 5/4/2015 3:21:27 | 47.57 | 42.87 | 1,300 | 2.14 | 0.23 | 71.1 |
| 5/4/2015 3:21:28 | 47.90 | 43.20 | 1,300 | 2.14 | 0.23 | 71.1 |
| 5/4/2015 3:21:42 | 48.23 | 43.53 | 86 | 2.79 | 1.59 | 4.7 |
| 5/4/2015 3:21:44 | 48.56 | 43.86 | 171 | 2.66 | 1.50 | 9.3 |
| 5/4/2015 3:21:46 | 48.88 | 44.18 | 168 | 2.71 | 1.45 | 9.2 |
| 5/4/2015 3:21:48 | 49.21 | 44.51 | 186 | 1.73 | 1.42 | 10.2 |
| 5/4/2015 3:21:50 | 49.54 | 44.84 | 175 | 2.58 | 1.94 | 9.6 |
| 5/4/2015 3:21:53 | 49.87 | 45.17 | 109 | 2.14 | 1.20 | 5.9 |
| 5/4/2015 3:21:53 | 50.20 | 45.50 | 204 | 2.36 | 1.14 | 11.1 |
| 5/4/2015 3:21:54 | 50.53 | 45.83 | 315 | 2.42 | 0.97 | 17.2 |
| 5/4/2015 3:22:00 | 50.85 | 46.15 | 38 | 2.10 | 1.57 | 2.1 |
| 5/4/2015 3:22:04 | 51.18 | 46.48 | 68 | 2.60 | 1.45 | 3.7 |
| 5/4/2015 3:22:07 | 51.51 | 46.81 | 142 | 1.91 | 1.56 | 7.7 |
| 5/4/2015 3:22:46 | 51.84 | 47.14 | 33 | 1.69 | 1.38 | 1.8 |
| 5/4/2015 3:22:52 | 52.17 | 47.47 | 55 | 2.40 | 1.48 | 3.0 |
| 5/4/2015 3:27:56 | 52.49 | 47.79 | 34 | 2.18 | 1.39 | 1.9 |
| 5/4/2015 3:28:02 | 52.82 | 48.12 | 84 | 2.48 | 1.21 | 4.6 |
| 5/4/2015 3:28:08 | 53.15 | 48.45 | 62 | 2.43 | 1.06 | 3.4 |
| 5/4/2015 3:28:14 | 53.48 | 48.78 | 54 | 2.38 | 1.23 | 2.9 |
| 5/4/2015 3:28:21 | 53.81 | 49.11 | 56 | 2.35 | 1.15 | 3.1 |
| 5/4/2015 3:28:27 | 54.13 | 49.43 | 55 | 2.44 | 1.29 | 3.0 |
| 5/4/2015 3:28:34 | 54.46 | 49.76 | 56 | 2.43 | 1.58 | 3.0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 3:28:36 | 54.54 | 49.84 | 39 | 2.88 | 1.67 | 2.1 |

## Q16 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:19:13

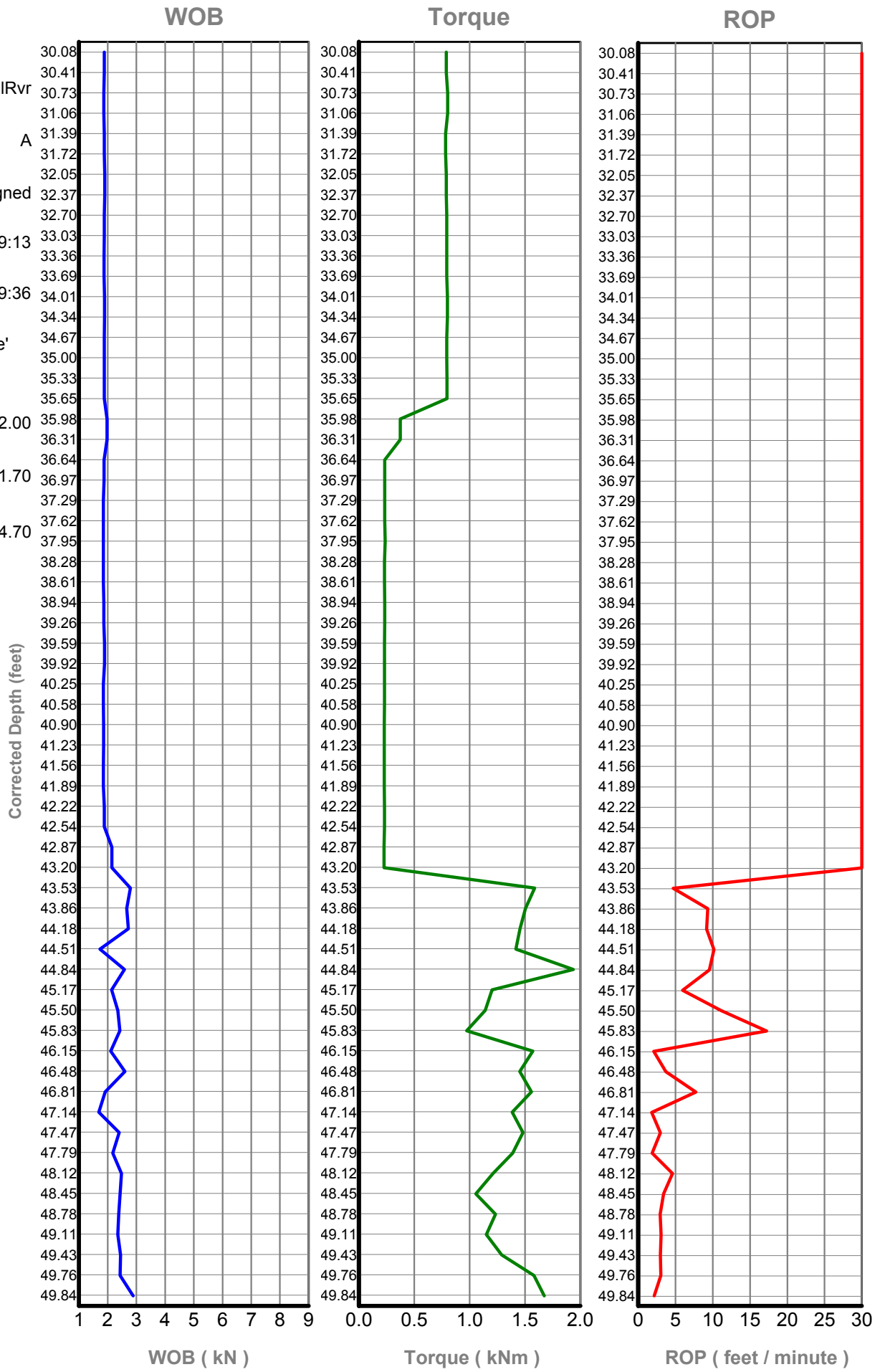
**End Date:**
5/4/2015 3:29:36

**Operator Note:**
'4.7 4.7 a Auto Complete'

**Northing:**
348,602.00

**Easting:**
223,761.70

**Tide (feet):**
4.70



## Hole: Q17 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:16:24 | 35.11 | 30.21 | 1,044 | 0.39 | 0.39 | 57.1 |
| 5/4/2015 3:16:24 | 35.43 | 30.53 | 1,041 | 0.39 | 0.40 | 56.9 |
| 5/4/2015 3:16:25 | 35.76 | 30.86 | 1,041 | 0.39 | 0.40 | 56.9 |
| 5/4/2015 3:16:25 | 36.09 | 31.19 | 1,038 | 0.39 | 0.40 | 56.7 |
| 5/4/2015 3:16:25 | 36.42 | 31.52 | 1,038 | 0.39 | 0.40 | 56.7 |
| 5/4/2015 3:16:26 | 36.75 | 31.85 | 1,038 | 0.39 | 0.40 | 56.7 |
| 5/4/2015 3:16:26 | 37.07 | 32.17 | 1,038 | 0.39 | 0.39 | 56.7 |
| 5/4/2015 3:16:27 | 37.40 | 32.50 | 1,032 | 0.40 | 0.39 | 56.4 |
| 5/4/2015 3:16:27 | 37.73 | 32.83 | 1,032 | 0.40 | 0.39 | 56.4 |
| 5/4/2015 3:16:27 | 38.06 | 33.16 | 1,021 | 0.39 | 0.39 | 55.8 |
| 5/4/2015 3:16:28 | 38.39 | 33.49 | 1,023 | 0.39 | 0.39 | 56.0 |
| 5/4/2015 3:16:28 | 38.71 | 33.81 | 1,023 | 0.39 | 0.39 | 56.0 |
| 5/4/2015 3:16:28 | 39.04 | 34.14 | 1,036 | 0.41 | 0.39 | 56.6 |
| 5/4/2015 3:16:29 | 39.37 | 34.47 | 1,042 | 0.39 | 0.39 | 57.0 |
| 5/4/2015 3:16:29 | 39.70 | 34.80 | 1,042 | 0.39 | 0.39 | 57.0 |
| 5/4/2015 3:16:29 | 40.03 | 35.13 | 1,045 | 0.40 | 0.39 | 57.1 |
| 5/4/2015 3:16:30 | 40.35 | 35.45 | 1,056 | 0.39 | 0.39 | 57.7 |
| 5/4/2015 3:16:30 | 40.68 | 35.78 | 1,056 | 0.39 | 0.39 | 57.7 |
| 5/4/2015 3:16:30 | 41.01 | 36.11 | 1,039 | 0.39 | 0.39 | 56.8 |
| 5/4/2015 3:16:31 | 41.34 | 36.44 | 1,039 | 0.39 | 0.39 | 56.8 |
| 5/4/2015 3:16:31 | 41.67 | 36.77 | 1,039 | 0.39 | 0.39 | 56.8 |
| 5/4/2015 3:16:31 | 41.99 | 37.09 | 1,037 | 0.39 | 0.39 | 56.7 |
| 5/4/2015 3:16:32 | 42.32 | 37.42 | 1,028 | 0.39 | 0.40 | 56.2 |
| 5/4/2015 3:16:32 | 42.65 | 37.75 | 1,028 | 0.39 | 0.40 | 56.2 |
| 5/4/2015 3:16:32 | 42.98 | 38.08 | 1,028 | 0.39 | 0.39 | 56.2 |
| 5/4/2015 3:16:33 | 43.31 | 38.41 | 1,034 | 0.39 | 0.39 | 56.6 |
| 5/4/2015 3:16:33 | 43.64 | 38.74 | 1,034 | 0.39 | 0.39 | 56.6 |
| 5/4/2015 3:16:33 | 43.96 | 39.06 | 1,043 | 0.39 | 0.40 | 57.0 |
| 5/4/2015 3:16:34 | 44.29 | 39.39 | 1,032 | 0.39 | 0.40 | 56.4 |
| 5/4/2015 3:16:34 | 44.62 | 39.72 | 1,032 | 0.39 | 0.40 | 56.4 |
| 5/4/2015 3:16:34 | 44.95 | 40.05 | 1,044 | 0.39 | 0.40 | 57.1 |
| 5/4/2015 3:16:35 | 45.28 | 40.38 | 1,035 | 0.39 | 0.39 | 56.6 |
| 5/4/2015 3:16:35 | 45.60 | 40.70 | 1,035 | 0.39 | 0.39 | 56.6 |
| 5/4/2015 3:16:35 | 45.93 | 41.03 | 1,032 | 0.41 | 0.40 | 56.4 |
| 5/4/2015 3:16:36 | 46.26 | 41.36 | 1,029 | 0.39 | 0.39 | 56.3 |
| 5/4/2015 3:16:36 | 46.59 | 41.69 | 1,029 | 0.39 | 0.39 | 56.3 |
| 5/4/2015 3:16:36 | 46.92 | 42.02 | 1,032 | 0.39 | 0.39 | 56.4 |
| 5/4/2015 3:16:37 | 47.24 | 42.34 | 1,029 | 0.39 | 0.39 | 56.3 |
| 5/4/2015 3:16:38 | 47.57 | 42.67 | 1,029 | 0.39 | 0.39 | 56.3 |
| 5/4/2015 3:16:38 | 47.90 | 43.00 | 1,029 | 0.39 | 0.40 | 56.3 |
| 5/4/2015 3:16:38 | 48.23 | 43.33 | 1,023 | 0.38 | 0.44 | 56.0 |
| 5/4/2015 3:16:43 | 48.56 | 43.66 | 0 | 4.53 | 0.47 | 0.0 |
| 5/4/2015 3:16:50 | 48.88 | 43.98 | 29 | 4.81 | 0.47 | 1.6 |
| 5/4/2015 3:16:55 | 49.21 | 44.31 | 103 | 3.77 | 0.43 | 5.6 |
| 5/4/2015 3:16:55 | 49.54 | 44.64 | 212 | 4.43 | 0.44 | 11.6 |
| 5/4/2015 3:16:59 | 49.87 | 44.97 | 0 | 3.79 | 0.45 | 0.0 |
| 5/4/2015 3:17:02 | 50.20 | 45.30 | 132 | 5.26 | 0.46 | 7.2 |
| 5/4/2015 3:17:17 | 50.53 | 45.63 | 2 | 3.86 | 0.43 | 0.1 |
| 5/4/2015 3:17:17 | 50.85 | 45.95 | 99 | 3.33 | 0.44 | 5.4 |
| 5/4/2015 3:17:19 | 51.18 | 46.28 | 219 | 4.13 | 0.46 | 12.0 |
| 5/4/2015 3:17:22 | 51.51 | 46.61 | 145 | 4.51 | 0.46 | 7.9 |
| 5/4/2015 3:17:24 | 51.84 | 46.94 | 138 | 4.30 | 0.46 | 7.5 |
| 5/4/2015 3:17:26 | 52.17 | 47.27 | 162 | 3.67 | 0.47 | 8.9 |
| 5/4/2015 3:18:17 | 52.49 | 47.59 | 0 | 4.15 | 0.47 | 0.0 |
| 5/4/2015 3:18:26 | 52.82 | 47.92 | 77 | 3.94 | 0.47 | 4.2 |
| 5/4/2015 3:18:35 | 53.15 | 48.25 | 37 | 3.38 | 0.47 | 2.0 |
| 5/4/2015 3:18:46 | 53.48 | 48.58 | 32 | 3.25 | 0.47 | 1.7 |
| 5/4/2015 3:18:57 | 53.81 | 48.91 | 29 | 3.24 | 0.47 | 1.6 |
| 5/4/2015 3:19:00 | 53.88 | 48.98 | 26 | 3.36 | 0.47 | 1.4 |

## Q17 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:14:50

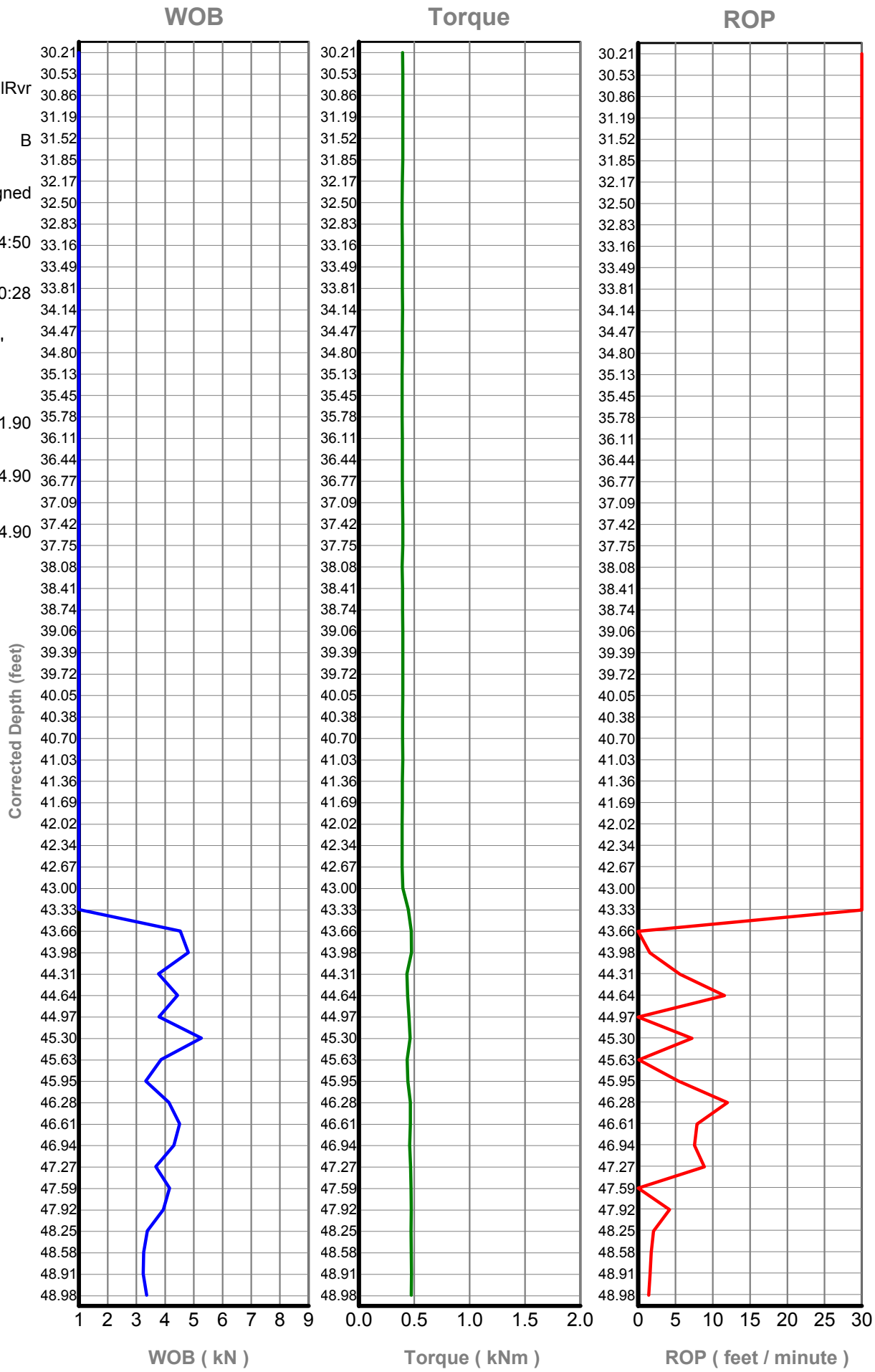
**End Date:**
5/4/2015 3:20:28

**Operator Note:**
'4.9 5.0b Auto Complete'

**Northing:**
348,641.90

**Easting:**
223,824.90

**Tide (feet):**
4.90



## Hole: Q18 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 3:14:56 | 35.11 | 30.21 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:14:57 | 35.43 | 30.53 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:14:57 | 35.76 | 30.86 | 1,021 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:14:57 | 36.09 | 31.19 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:14:58 | 36.42 | 31.52 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:14:58 | 36.75 | 31.85 | 1,015 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 3:14:58 | 37.07 | 32.17 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:14:59 | 37.40 | 32.50 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:14:59 | 37.73 | 32.83 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 3:14:59 | 38.06 | 33.16 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 3:15:00 | 38.39 | 33.49 | 1,024 | 1.14 | 0.29 | 56.0 |
| 5/4/2015 3:15:00 | 38.71 | 33.81 | 1,021 | 1.14 | 0.29 | 55.9 |
| 5/4/2015 3:15:00 | 39.04 | 34.14 | 1,021 | 1.14 | 0.29 | 55.9 |
| 5/4/2015 3:15:01 | 39.37 | 34.47 | 1,021 | 1.14 | 0.29 | 55.9 |
| 5/4/2015 3:15:01 | 39.70 | 34.80 | 1,027 | 1.14 | 0.29 | 56.2 |
| 5/4/2015 3:15:01 | 40.03 | 35.13 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:02 | 40.35 | 35.45 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:02 | 40.68 | 35.78 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 3:15:02 | 41.01 | 36.11 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:03 | 41.34 | 36.44 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:03 | 41.67 | 36.77 | 1,020 | 1.14 | 0.29 | 55.8 |
| 5/4/2015 3:15:03 | 41.99 | 37.09 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:04 | 42.32 | 37.42 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:04 | 42.65 | 37.75 | 1,018 | 1.14 | 0.29 | 55.6 |
| 5/4/2015 3:15:05 | 42.98 | 38.08 | 1,018 | 1.14 | 0.29 | 55.7 |
| 5/4/2015 3:15:05 | 43.31 | 38.41 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:05 | 43.64 | 38.74 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:06 | 43.96 | 39.06 | 1,007 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:06 | 44.29 | 39.39 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:07 | 44.62 | 39.72 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:07 | 44.95 | 40.05 | 1,014 | 1.14 | 0.29 | 55.5 |
| 5/4/2015 3:15:07 | 45.28 | 40.38 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:08 | 45.60 | 40.70 | 1,006 | 1.14 | 0.29 | 55.0 |
| 5/4/2015 3:15:08 | 45.93 | 41.03 | 999 | 1.14 | 0.29 | 54.6 |
| 5/4/2015 3:15:08 | 46.26 | 41.36 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/4/2015 3:15:09 | 46.59 | 41.69 | 1,014 | 1.14 | 0.29 | 55.4 |
| 5/4/2015 3:15:09 | 46.92 | 42.02 | 1,012 | 1.14 | 0.29 | 55.3 |
| 5/4/2015 3:15:09 | 47.24 | 42.34 | 1,009 | 1.14 | 0.29 | 55.2 |
| 5/4/2015 3:15:31 | 47.57 | 42.67 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 3:15:32 | 47.90 | 43.00 | 171 | 1.14 | 0.29 | 9.4 |
| 5/4/2015 3:15:33 | 48.23 | 43.33 | 171 | 1.14 | 0.29 | 9.4 |
| 5/4/2015 3:15:46 | 48.56 | 43.66 | 54 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 3:15:47 | 48.88 | 43.98 | 172 | 1.14 | 0.29 | 9.4 |
| 5/4/2015 3:15:47 | 49.21 | 44.31 | 289 | 1.14 | 0.29 | 15.8 |
| 5/4/2015 3:16:05 | 49.54 | 44.64 | 114 | 1.14 | 0.29 | 6.2 |
| 5/4/2015 3:16:08 | 49.87 | 44.97 | 155 | 1.14 | 0.29 | 8.5 |
| 5/4/2015 3:16:38 | 50.20 | 45.30 | 87 | 1.14 | 0.29 | 4.8 |
| 5/4/2015 3:16:42 | 50.53 | 45.63 | 93 | 1.14 | 0.29 | 5.1 |
| 5/4/2015 3:16:44 | 50.85 | 45.95 | 128 | 1.14 | 0.29 | 7.0 |
| 5/4/2015 3:17:05 | 51.18 | 46.28 | 26 | 1.14 | 0.29 | 1.4 |
| 5/4/2015 3:17:10 | 51.51 | 46.61 | 65 | 1.14 | 0.29 | 3.6 |
| 5/4/2015 3:17:19 | 51.84 | 46.94 | 32 | 1.14 | 0.29 | 1.7 |
| 5/4/2015 3:17:32 | 52.17 | 47.27 | 23 | 1.14 | 0.29 | 1.3 |
| 5/4/2015 3:17:46 | 52.49 | 47.59 | 23 | 1.14 | 0.29 | 1.3 |
| 5/4/2015 3:17:55 | 52.70 | 47.80 | 29 | 1.14 | 0.29 | 1.6 |

## Q18 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:13:53

**End Date:**
5/4/2015 3:19:22

**Operator Note:**
'4.9 5.0 c Auto Complete'

**Northing:**
348,682.00

**Easting:**
223,888.50

**Tide (feet):**
4.90



## Hole: Q2 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:24:23 | 33.46 | 30.16 | 1,184 | 0.33 | 0.37 | 64.7 |
| 5/4/2015 4:24:24 | 33.79 | 30.49 | 1,174 | 0.33 | 0.37 | 64.2 |
| 5/4/2015 4:24:24 | 34.12 | 30.82 | 1,174 | 0.33 | 0.37 | 64.2 |
| 5/4/2015 4:24:24 | 34.45 | 31.15 | 1,189 | 0.33 | 0.38 | 65.0 |
| 5/4/2015 4:24:25 | 34.78 | 31.48 | 1,189 | 0.33 | 0.38 | 65.0 |
| 5/4/2015 4:24:25 | 35.11 | 31.81 | 1,192 | 0.33 | 0.38 | 65.2 |
| 5/4/2015 4:24:25 | 35.43 | 32.13 | 1,192 | 0.33 | 0.38 | 65.2 |
| 5/4/2015 4:24:25 | 35.76 | 32.46 | 1,179 | 0.33 | 0.38 | 64.5 |
| 5/4/2015 4:24:26 | 36.09 | 32.79 | 1,184 | 0.33 | 0.37 | 64.8 |
| 5/4/2015 4:24:26 | 36.42 | 33.12 | 1,184 | 0.33 | 0.37 | 64.8 |
| 5/4/2015 4:24:26 | 36.75 | 33.45 | 1,181 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 4:24:27 | 37.07 | 33.77 | 1,181 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 4:24:27 | 37.40 | 34.10 | 1,198 | 0.33 | 0.37 | 65.5 |
| 5/4/2015 4:24:27 | 37.73 | 34.43 | 1,198 | 0.33 | 0.37 | 65.5 |
| 5/4/2015 4:24:27 | 38.06 | 34.76 | 1,171 | 0.33 | 0.37 | 64.0 |
| 5/4/2015 4:24:28 | 38.39 | 35.09 | 1,188 | 0.33 | 0.38 | 64.9 |
| 5/4/2015 4:24:29 | 38.71 | 35.41 | 1,188 | 0.33 | 0.38 | 64.9 |
| 5/4/2015 4:24:29 | 39.04 | 35.74 | 1,179 | 0.33 | 0.37 | 64.4 |
| 5/4/2015 4:24:29 | 39.37 | 36.07 | 1,179 | 0.33 | 0.37 | 64.4 |
| 5/4/2015 4:24:29 | 39.70 | 36.40 | 1,192 | 0.33 | 0.37 | 65.2 |
| 5/4/2015 4:24:30 | 40.03 | 36.73 | 1,182 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 4:24:30 | 40.35 | 37.05 | 1,182 | 0.33 | 0.37 | 64.6 |
| 5/4/2015 4:24:30 | 40.68 | 37.38 | 1,195 | 0.33 | 0.38 | 65.4 |
| 5/4/2015 4:24:31 | 41.01 | 37.71 | 1,195 | 0.33 | 0.38 | 65.4 |
| 5/4/2015 4:24:31 | 41.34 | 38.04 | 1,188 | 0.33 | 0.37 | 65.0 |
| 5/4/2015 4:24:31 | 41.67 | 38.37 | 1,188 | 0.33 | 0.37 | 65.0 |
| 5/4/2015 4:24:31 | 41.99 | 38.69 | 1,192 | 0.33 | 0.38 | 65.2 |
| 5/4/2015 4:24:32 | 42.32 | 39.02 | 1,182 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 4:24:32 | 42.65 | 39.35 | 1,182 | 0.33 | 0.38 | 64.6 |
| 5/4/2015 4:24:32 | 42.98 | 39.68 | 1,186 | 0.30 | 0.44 | 64.9 |
| 5/4/2015 4:24:38 | 43.31 | 40.01 | 66 | 2.80 | 0.43 | 3.6 |
| 5/4/2015 4:24:40 | 43.64 | 40.34 | 195 | 3.85 | 0.42 | 10.6 |
| 5/4/2015 4:24:44 | 43.96 | 40.66 | 37 | 3.30 | 0.46 | 2.0 |
| 5/4/2015 4:24:46 | 44.29 | 40.99 | 179 | 7.06 | 0.48 | 9.8 |
| 5/4/2015 4:24:48 | 44.62 | 41.32 | 164 | 3.87 | 0.46 | 9.0 |
| 5/4/2015 4:24:54 | 44.95 | 41.65 | 71 | 3.54 | 0.47 | 3.9 |
| 5/4/2015 4:24:55 | 45.28 | 41.98 | 206 | 2.67 | 0.45 | 11.2 |
| 5/4/2015 4:25:05 | 45.60 | 42.30 | 0 | 5.25 | 0.43 | 0.0 |
| 5/4/2015 4:25:06 | 45.93 | 42.63 | 143 | 3.17 | 0.43 | 7.8 |
| 5/4/2015 4:25:07 | 46.26 | 42.96 | 308 | 3.83 | 0.45 | 16.9 |
| 5/4/2015 4:25:08 | 46.59 | 43.29 | 391 | 6.09 | 0.44 | 21.4 |
| 5/4/2015 4:25:09 | 46.92 | 43.62 | 388 | 3.42 | 0.43 | 21.2 |
| 5/4/2015 4:25:21 | 47.24 | 43.94 | 0 | 3.58 | 0.44 | 0.0 |
| 5/4/2015 4:25:22 | 47.57 | 44.27 | 139 | 3.62 | 0.44 | 7.6 |
| 5/4/2015 4:25:43 | 47.90 | 44.60 | 0 | 4.43 | 0.45 | 0.0 |
| 5/4/2015 4:25:44 | 48.23 | 44.93 | 101 | 3.71 | 0.44 | 5.5 |
| 5/4/2015 4:25:45 | 48.56 | 45.26 | 186 | 3.13 | 0.43 | 10.2 |
| 5/4/2015 4:25:46 | 48.88 | 45.58 | 286 | 3.61 | 0.43 | 15.6 |
| 5/4/2015 4:25:46 | 49.21 | 45.91 | 400 | 2.71 | 0.43 | 21.9 |
| 5/4/2015 4:25:47 | 49.54 | 46.24 | 508 | 2.97 | 0.44 | 27.8 |
| 5/4/2015 4:25:48 | 49.87 | 46.57 | 447 | 3.71 | 0.46 | 24.4 |
| 5/4/2015 4:28:11 | 50.20 | 46.90 | 83 | 2.44 | 0.46 | 4.5 |
| 5/4/2015 4:28:12 | 50.53 | 47.23 | 210 | 2.44 | 0.46 | 11.5 |
| 5/4/2015 4:28:18 | 50.85 | 47.55 | 0 | 2.61 | 0.41 | 0.0 |
| 5/4/2015 4:28:20 | 51.18 | 47.88 | 127 | 3.71 | 0.45 | 6.9 |
| 5/4/2015 4:29:36 | 51.51 | 48.21 | 104 | 3.79 | 0.46 | 5.7 |
| 5/4/2015 4:30:14 | 51.84 | 48.54 | 0 | 4.40 | 0.45 | 0.0 |
| 5/4/2015 4:30:36 | 52.17 | 48.87 | 48 | 2.86 | 0.46 | 2.6 |
| 5/4/2015 4:30:48 | 52.49 | 49.19 | 41 | 3.33 | 0.47 | 2.2 |
| 5/4/2015 4:31:00 | 52.82 | 49.52 | 29 | 2.58 | 0.47 | 1.6 |
| 5/4/2015 4:31:06 | 53.11 | 49.81 | 58 | 3.16 | 0.46 | 3.2 |

## Q2 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:22:38

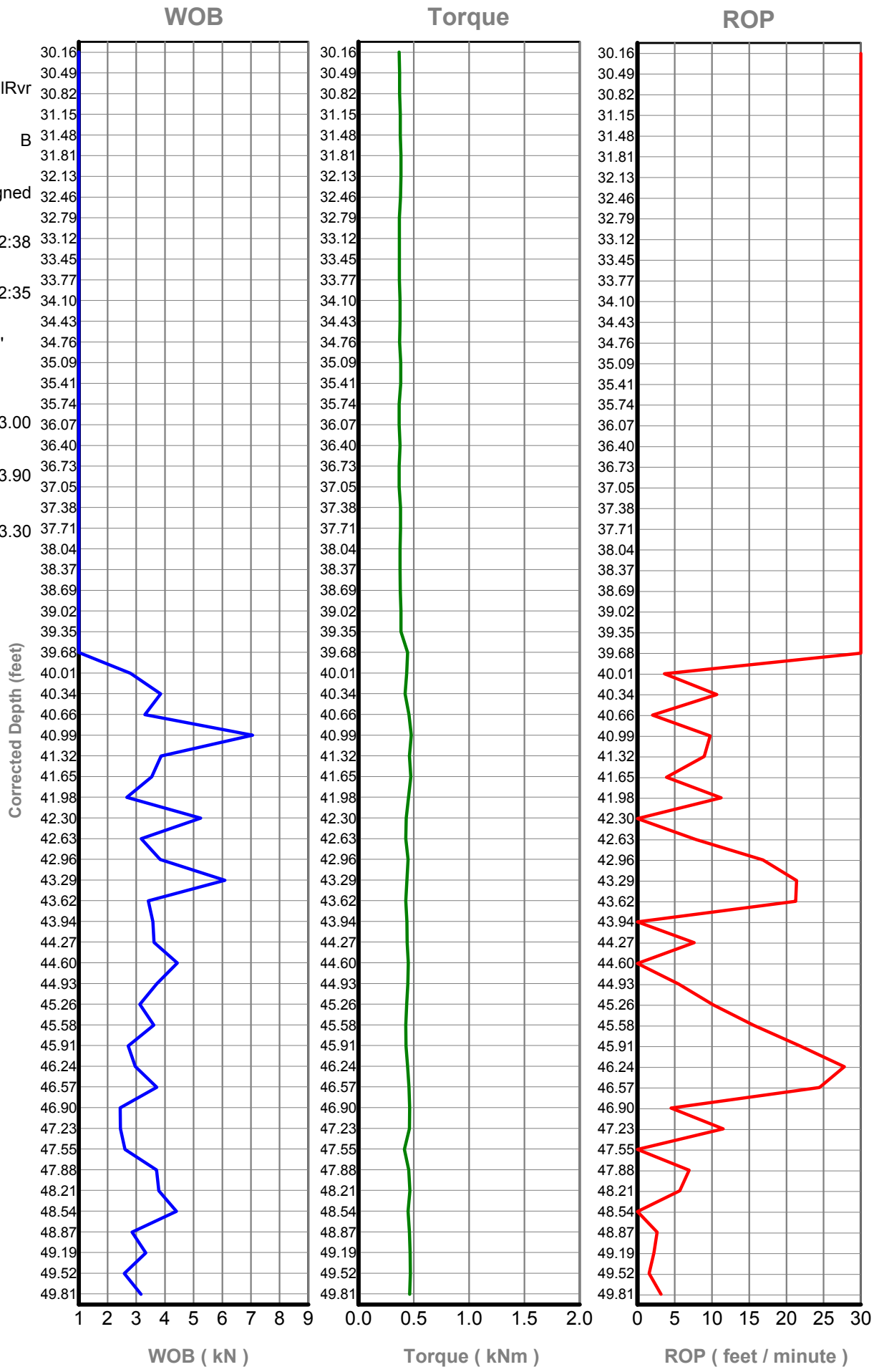
**End Date:**
5/4/2015 4:32:35

**Operator Note:**
'3.3 3.5b Auto Complete'

**Northing:**
348,643.00

**Easting:**
223,543.90

**Tide (feet):**
3.30



## Hole: Q3 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:22:10 | 33.46 | 30.16 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:22:10 | 33.79 | 30.49 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:22:10 | 34.12 | 30.82 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 4:22:11 | 34.45 | 31.15 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:22:11 | 34.78 | 31.48 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:22:11 | 35.11 | 31.81 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:22:12 | 35.43 | 32.13 | 1,092 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:22:12 | 35.76 | 32.46 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:22:13 | 36.09 | 32.79 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 4:22:13 | 36.42 | 33.12 | 1,083 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 4:22:13 | 36.75 | 33.45 | 1,087 | 1.14 | 0.29 | 59.4 |
| 5/4/2015 4:22:14 | 37.07 | 33.77 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:22:14 | 37.40 | 34.10 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:22:14 | 37.73 | 34.43 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:22:15 | 38.06 | 34.76 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:15 | 38.39 | 35.09 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:15 | 38.71 | 35.41 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/4/2015 4:22:16 | 39.04 | 35.74 | 1,104 | 1.14 | 0.29 | 60.4 |
| 5/4/2015 4:22:16 | 39.37 | 36.07 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:16 | 39.70 | 36.40 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:17 | 40.03 | 36.73 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:17 | 40.35 | 37.05 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:17 | 40.68 | 37.38 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:22:18 | 41.01 | 37.71 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:22:18 | 41.34 | 38.04 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:22:18 | 41.67 | 38.37 | 1,080 | 1.14 | 0.29 | 59.1 |
| 5/4/2015 4:22:27 | 41.99 | 38.69 | 106 | 1.14 | 0.29 | 5.8 |
| 5/4/2015 4:22:45 | 42.32 | 39.02 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:22:45 | 42.65 | 39.35 | 109 | 1.14 | 0.29 | 5.9 |
| 5/4/2015 4:23:12 | 42.98 | 39.68 | 17 | 1.14 | 0.29 | 0.9 |
| 5/4/2015 4:23:24 | 43.31 | 40.01 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:23:30 | 43.64 | 40.34 | 40 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 4:23:31 | 43.96 | 40.66 | 147 | 1.14 | 0.29 | 8.0 |
| 5/4/2015 4:23:32 | 44.29 | 40.99 | 275 | 1.14 | 0.29 | 15.1 |
| 5/4/2015 4:23:41 | 44.62 | 41.32 | 99 | 1.14 | 0.29 | 5.4 |
| 5/4/2015 4:24:14 | 44.95 | 41.65 | 14 | 1.14 | 0.29 | 0.8 |
| 5/4/2015 4:24:16 | 45.28 | 41.98 | 148 | 1.14 | 0.29 | 8.1 |
| 5/4/2015 4:24:20 | 45.60 | 42.30 | 32 | 1.14 | 0.29 | 1.8 |
| 5/4/2015 4:25:06 | 45.93 | 42.63 | 22 | 1.14 | 0.29 | 1.2 |
| 5/4/2015 4:25:07 | 46.26 | 42.96 | 167 | 1.14 | 0.29 | 9.2 |
| 5/4/2015 4:25:23 | 46.59 | 43.29 | 28 | 1.14 | 0.29 | 1.5 |
| 5/4/2015 4:25:32 | 46.92 | 43.62 | 108 | 1.14 | 0.29 | 5.9 |
| 5/4/2015 4:25:33 | 47.24 | 43.94 | 178 | 1.14 | 0.29 | 9.8 |
| 5/4/2015 4:26:19 | 47.57 | 44.27 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:26:24 | 47.90 | 44.60 | 78 | 1.14 | 0.29 | 4.3 |
| 5/4/2015 4:26:27 | 48.23 | 44.93 | 108 | 1.14 | 0.29 | 5.9 |
| 5/4/2015 4:26:28 | 48.56 | 45.26 | 194 | 1.14 | 0.29 | 10.6 |
| 5/4/2015 4:27:01 | 48.88 | 45.58 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 4:27:05 | 49.21 | 45.91 | 35 | 1.14 | 0.29 | 1.9 |
| 5/4/2015 4:27:12 | 49.54 | 46.24 | 70 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 4:27:44 | 49.87 | 46.57 | 70 | 1.14 | 0.29 | 3.8 |
| 5/4/2015 4:28:00 | 50.20 | 46.90 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:28:05 | 50.53 | 47.23 | 66 | 1.14 | 0.29 | 3.6 |
| 5/4/2015 4:29:45 | 50.85 | 47.55 | 3 | 1.14 | 0.29 | 0.2 |
| 5/4/2015 4:31:34 | 51.18 | 47.88 | 67 | 1.14 | 0.29 | 3.7 |
| 5/4/2015 4:31:41 | 51.51 | 48.21 | 57 | 1.14 | 0.29 | 3.1 |
| 5/4/2015 4:31:46 | 51.84 | 48.54 | 81 | 1.14 | 0.29 | 4.5 |
| 5/4/2015 4:31:52 | 52.17 | 48.87 | 49 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 4:32:35 | 52.49 | 49.19 | 45 | 1.14 | 0.29 | 2.5 |
| 5/4/2015 4:32:41 | 52.82 | 49.52 | 55 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 4:32:50 | 53.15 | 49.85 | 41 | 1.14 | 0.29 | 2.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 4:32:58 | 53.48 | 50.18 | 41 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 | 4:33:07 | 53.81 | 50.51 | 41 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 | 4:33:16 | 54.13 | 50.83 | 36 | 1.14 | 0.29 | 2.0 |
| 5/4/2015 | 4:33:24 | 54.41 | 51.11 | 35 | 1.14 | 0.29 | 1.9 |

## Q3 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:21:10

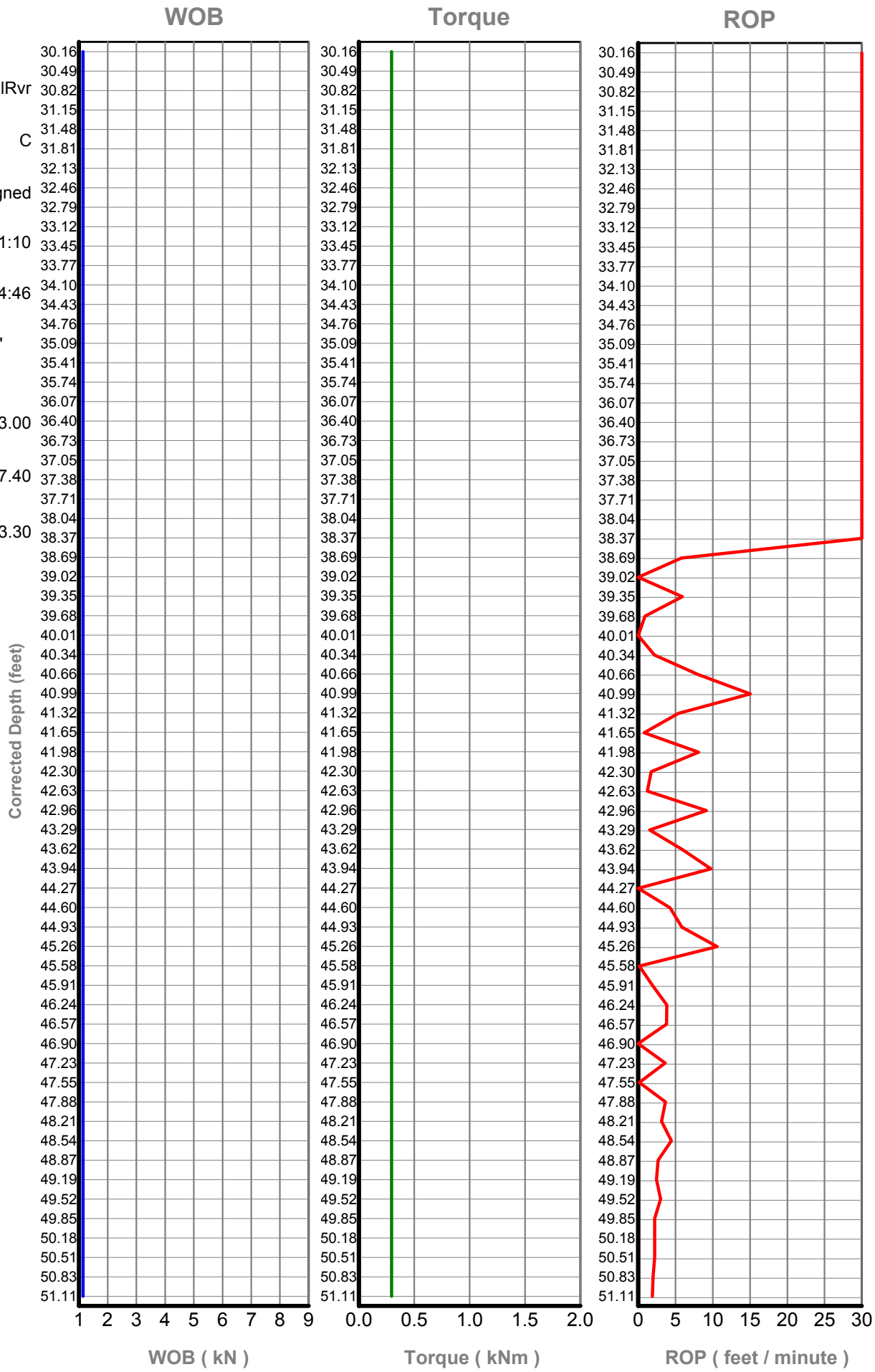
**End Date:**
5/4/2015 4:34:46

**Operator Note:**
'3.3 3.5c Auto Complete'

**Northing:**
348,683.00

**Easting:**
223,607.40

**Tide (feet):**
3.30



## Hole: Q4 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:07:23 | 34.12 | 30.02 | 1,081 | 1.55 | 0.23 | 59.1 |
| 5/4/2015 4:07:23 | 34.45 | 30.35 | 1,081 | 1.55 | 0.24 | 59.1 |
| 5/4/2015 4:07:24 | 34.78 | 30.68 | 1,081 | 1.55 | 0.24 | 59.1 |
| 5/4/2015 4:07:24 | 35.11 | 31.01 | 1,075 | 1.58 | 0.23 | 58.8 |
| 5/4/2015 4:07:25 | 35.43 | 31.33 | 1,088 | 1.56 | 0.24 | 59.5 |
| 5/4/2015 4:07:25 | 35.76 | 31.66 | 1,088 | 1.56 | 0.24 | 59.5 |
| 5/4/2015 4:07:25 | 36.09 | 31.99 | 1,076 | 1.55 | 0.24 | 58.9 |
| 5/4/2015 4:07:26 | 36.42 | 32.32 | 1,082 | 1.55 | 0.24 | 59.2 |
| 5/4/2015 4:07:26 | 36.75 | 32.65 | 1,082 | 1.55 | 0.24 | 59.2 |
| 5/4/2015 4:07:26 | 37.07 | 32.97 | 1,076 | 1.54 | 0.24 | 58.9 |
| 5/4/2015 4:07:27 | 37.40 | 33.30 | 1,076 | 1.54 | 0.24 | 58.9 |
| 5/4/2015 4:07:27 | 37.73 | 33.63 | 1,088 | 1.57 | 0.24 | 59.5 |
| 5/4/2015 4:07:27 | 38.06 | 33.96 | 1,078 | 1.55 | 0.23 | 59.0 |
| 5/4/2015 4:07:28 | 38.39 | 34.29 | 1,078 | 1.55 | 0.23 | 59.0 |
| 5/4/2015 4:07:28 | 38.71 | 34.61 | 1,078 | 1.55 | 0.24 | 59.0 |
| 5/4/2015 4:07:28 | 39.04 | 34.94 | 1,075 | 1.55 | 0.24 | 58.8 |
| 5/4/2015 4:07:29 | 39.37 | 35.27 | 1,075 | 1.55 | 0.24 | 58.8 |
| 5/4/2015 4:07:29 | 39.70 | 35.60 | 1,081 | 1.55 | 0.24 | 59.1 |
| 5/4/2015 4:07:29 | 40.03 | 35.93 | 1,072 | 1.57 | 0.23 | 58.6 |
| 5/4/2015 4:07:30 | 40.35 | 36.25 | 1,072 | 1.57 | 0.23 | 58.6 |
| 5/4/2015 4:07:30 | 40.68 | 36.58 | 1,070 | 1.55 | 0.24 | 58.5 |
| 5/4/2015 4:07:30 | 41.01 | 36.91 | 1,067 | 1.55 | 0.24 | 58.3 |
| 5/4/2015 4:07:31 | 41.34 | 37.24 | 1,067 | 1.55 | 0.24 | 58.3 |
| 5/4/2015 4:07:31 | 41.67 | 37.57 | 1,052 | 1.55 | 0.23 | 57.5 |
| 5/4/2015 4:07:31 | 41.99 | 37.89 | 1,052 | 1.55 | 0.23 | 57.5 |
| 5/4/2015 4:07:31 | 42.32 | 38.22 | 1,052 | 1.55 | 0.24 | 57.5 |
| 5/4/2015 4:07:32 | 42.65 | 38.55 | 1,054 | 1.68 | 0.25 | 57.7 |
| 5/4/2015 4:07:32 | 42.98 | 38.88 | 1,054 | 1.68 | 0.25 | 57.7 |
| 5/4/2015 4:07:47 | 43.31 | 39.21 | 0 | 2.45 | 1.08 | 0.0 |
| 5/4/2015 4:07:48 | 43.64 | 39.54 | 100 | 1.95 | 1.08 | 5.5 |
| 5/4/2015 4:07:49 | 43.96 | 39.86 | 234 | 1.95 | 1.11 | 12.8 |
| 5/4/2015 4:07:52 | 44.29 | 40.19 | 96 | 2.39 | 1.94 | 5.2 |
| 5/4/2015 4:07:54 | 44.62 | 40.52 | 144 | 2.13 | 1.63 | 7.9 |
| 5/4/2015 4:07:56 | 44.95 | 40.85 | 196 | 2.19 | 1.81 | 10.7 |
| 5/4/2015 4:07:57 | 45.28 | 41.18 | 272 | 2.38 | 1.39 | 14.9 |
| 5/4/2015 4:07:59 | 45.60 | 41.50 | 265 | 2.09 | 1.57 | 14.5 |
| 5/4/2015 4:08:00 | 45.93 | 41.83 | 247 | 1.43 | 1.53 | 13.5 |
| 5/4/2015 4:08:02 | 46.26 | 42.16 | 239 | 2.06 | 1.33 | 13.1 |
| 5/4/2015 4:08:02 | 46.59 | 42.49 | 276 | 2.23 | 1.27 | 15.1 |
| 5/4/2015 4:08:04 | 46.92 | 42.82 | 302 | 2.52 | 1.50 | 16.5 |
| 5/4/2015 4:08:13 | 47.24 | 43.14 | 60 | 1.63 | 1.42 | 3.3 |
| 5/4/2015 4:08:14 | 47.57 | 43.47 | 198 | 2.85 | 1.78 | 10.8 |
| 5/4/2015 4:08:15 | 47.90 | 43.80 | 270 | 2.25 | 1.18 | 14.8 |
| 5/4/2015 4:08:15 | 48.23 | 44.13 | 423 | 1.65 | 1.50 | 23.1 |
| 5/4/2015 4:08:16 | 48.56 | 44.46 | 534 | 1.57 | 0.80 | 29.2 |
| 5/4/2015 4:08:17 | 48.88 | 44.78 | 534 | 1.57 | 0.80 | 29.2 |
| 5/4/2015 4:08:17 | 49.21 | 45.11 | 667 | 2.25 | 0.91 | 36.5 |
| 5/4/2015 4:08:17 | 49.54 | 45.44 | 793 | 2.18 | 0.86 | 43.4 |
| 5/4/2015 4:08:18 | 49.87 | 45.77 | 793 | 2.18 | 0.86 | 43.4 |
| 5/4/2015 4:08:40 | 50.20 | 46.10 | 0 | 2.76 | 1.32 | 0.0 |
| 5/4/2015 4:08:44 | 50.53 | 46.43 | 101 | 2.58 | 1.45 | 5.5 |
| 5/4/2015 4:08:51 | 50.85 | 46.75 | 55 | 2.63 | 1.29 | 3.0 |
| 5/4/2015 4:08:56 | 51.18 | 47.08 | 75 | 2.57 | 1.26 | 4.1 |
| 5/4/2015 4:09:00 | 51.51 | 47.41 | 95 | 2.56 | 1.26 | 5.2 |
| 5/4/2015 4:09:12 | 51.84 | 47.74 | 24 | 2.70 | 1.14 | 1.3 |
| 5/4/2015 4:09:26 | 52.17 | 48.07 | 31 | 2.67 | 1.37 | 1.7 |
| 5/4/2015 4:09:41 | 52.49 | 48.39 | 23 | 2.68 | 1.27 | 1.3 |
| 5/4/2015 4:09:57 | 52.80 | 48.70 | 23 | 2.84 | 1.37 | 1.2 |

## Q4 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 3:42:25

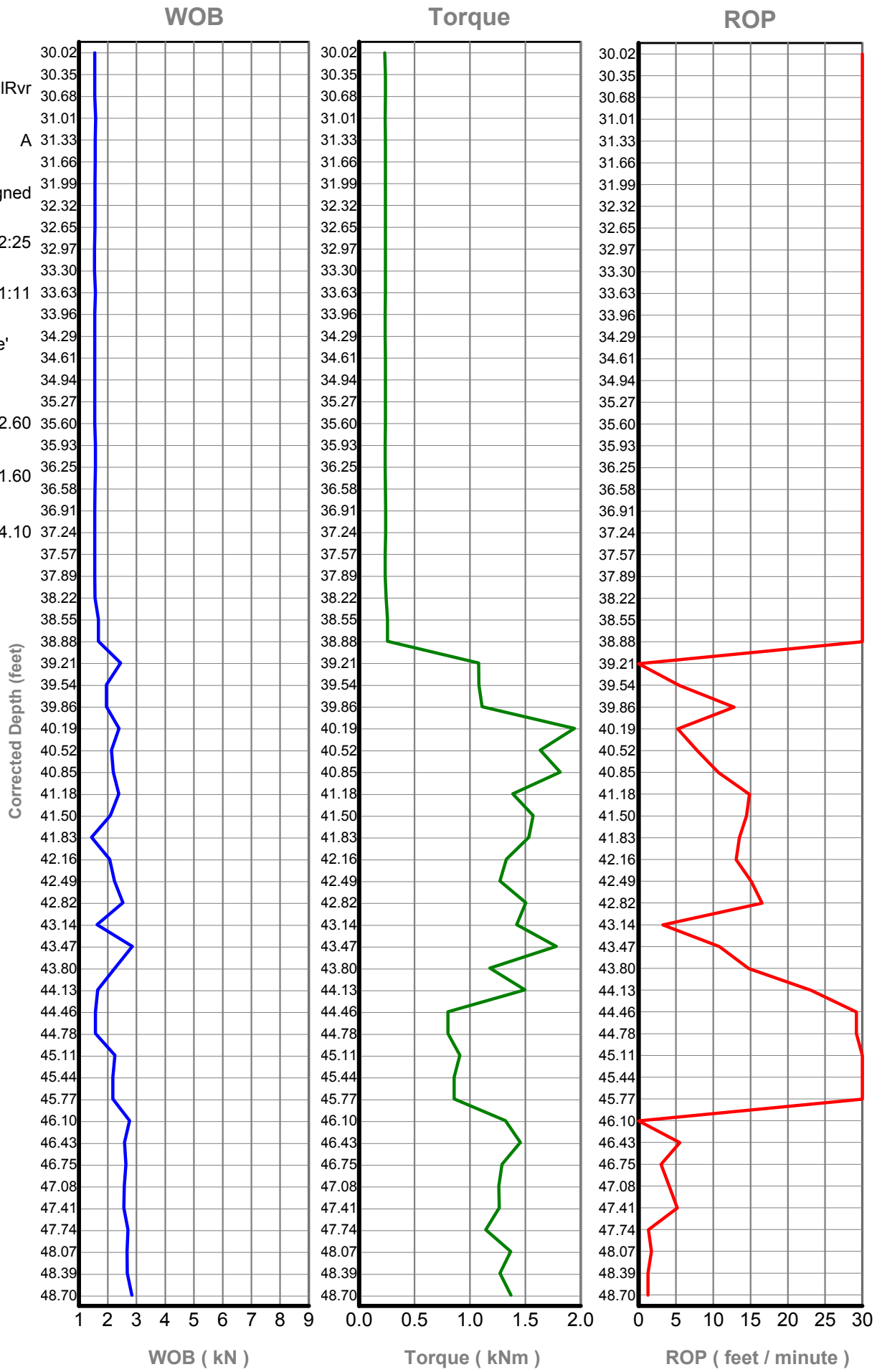
**End Date:**
5/4/2015 4:11:11

**Operator Note:**
'4.1 3.9 a Auto Complete'

**Northing:**
348,732.60

**Easting:**
223,681.60

**Tide (feet):**
4.10



## Hole: Q5 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:08:20 | 34.12 | 30.32 | 1,196 | 0.31 | 0.39 | 65.4 |
| 5/4/2015 4:08:21 | 34.45 | 30.65 | 1,196 | 0.31 | 0.39 | 65.4 |
| 5/4/2015 4:08:21 | 34.78 | 30.98 | 1,188 | 0.30 | 0.38 | 64.9 |
| 5/4/2015 4:08:21 | 35.11 | 31.31 | 1,188 | 0.30 | 0.38 | 64.9 |
| 5/4/2015 4:08:21 | 35.43 | 31.63 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/4/2015 4:08:22 | 35.76 | 31.96 | 1,174 | 0.31 | 0.37 | 64.2 |
| 5/4/2015 4:08:22 | 36.09 | 32.29 | 1,174 | 0.31 | 0.39 | 64.2 |
| 5/4/2015 4:08:22 | 36.42 | 32.62 | 1,200 | 0.30 | 0.35 | 65.6 |
| 5/4/2015 4:08:23 | 36.75 | 32.95 | 1,200 | 0.30 | 0.35 | 65.6 |
| 5/4/2015 4:08:23 | 37.07 | 33.27 | 1,178 | 0.30 | 0.37 | 64.4 |
| 5/4/2015 4:08:23 | 37.40 | 33.60 | 1,178 | 0.30 | 0.37 | 64.4 |
| 5/4/2015 4:08:23 | 37.73 | 33.93 | 1,200 | 0.31 | 0.38 | 65.6 |
| 5/4/2015 4:08:24 | 38.06 | 34.26 | 1,188 | 0.30 | 0.39 | 64.9 |
| 5/4/2015 4:08:24 | 38.39 | 34.59 | 1,188 | 0.30 | 0.39 | 64.9 |
| 5/4/2015 4:08:24 | 38.71 | 34.91 | 1,204 | 0.30 | 0.37 | 65.8 |
| 5/4/2015 4:08:25 | 39.04 | 35.24 | 1,204 | 0.30 | 0.37 | 65.8 |
| 5/4/2015 4:08:25 | 39.37 | 35.57 | 1,191 | 0.30 | 0.38 | 65.1 |
| 5/4/2015 4:08:25 | 39.70 | 35.90 | 1,191 | 0.30 | 0.38 | 65.1 |
| 5/4/2015 4:08:25 | 40.03 | 36.23 | 1,202 | 0.30 | 0.38 | 65.7 |
| 5/4/2015 4:08:26 | 40.35 | 36.55 | 1,194 | 0.30 | 0.38 | 65.3 |
| 5/4/2015 4:08:26 | 40.68 | 36.88 | 1,194 | 0.30 | 0.38 | 65.3 |
| 5/4/2015 4:08:26 | 41.01 | 37.21 | 1,194 | 0.30 | 0.37 | 65.3 |
| 5/4/2015 4:08:27 | 41.34 | 37.54 | 1,194 | 0.30 | 0.37 | 65.3 |
| 5/4/2015 4:08:27 | 41.67 | 37.87 | 1,178 | 0.30 | 0.38 | 64.4 |
| 5/4/2015 4:08:27 | 41.99 | 38.19 | 1,178 | 0.30 | 0.38 | 64.4 |
| 5/4/2015 4:08:27 | 42.32 | 38.52 | 1,199 | 0.30 | 0.38 | 65.6 |
| 5/4/2015 4:08:28 | 42.65 | 38.85 | 1,192 | 0.29 | 0.39 | 65.2 |
| 5/4/2015 4:08:28 | 42.98 | 39.18 | 1,192 | 0.29 | 0.39 | 65.2 |
| 5/4/2015 4:08:36 | 43.31 | 39.51 | 0 | 2.73 | 0.44 | 0.0 |
| 5/4/2015 4:08:38 | 43.64 | 39.84 | 139 | 3.33 | 0.46 | 7.6 |
| 5/4/2015 4:08:39 | 43.96 | 40.16 | 213 | 2.97 | 0.42 | 11.6 |
| 5/4/2015 4:08:42 | 44.29 | 40.49 | 131 | 2.21 | 0.34 | 7.2 |
| 5/4/2015 4:08:43 | 44.62 | 40.82 | 143 | 4.41 | 0.46 | 7.8 |
| 5/4/2015 4:08:45 | 44.95 | 41.15 | 203 | 3.50 | 0.45 | 11.1 |
| 5/4/2015 4:08:48 | 45.28 | 41.48 | 157 | 5.13 | 0.47 | 8.6 |
| 5/4/2015 4:08:57 | 45.60 | 41.80 | 46 | 6.09 | 0.47 | 2.5 |
| 5/4/2015 4:08:59 | 45.93 | 42.13 | 128 | 4.26 | 0.46 | 7.0 |
| 5/4/2015 4:09:01 | 46.26 | 42.46 | 154 | 3.83 | 0.45 | 8.4 |
| 5/4/2015 4:09:03 | 46.59 | 42.79 | 221 | 7.37 | 0.46 | 12.1 |
| 5/4/2015 4:09:31 | 46.92 | 43.12 | 46 | 2.95 | 0.44 | 2.5 |
| 5/4/2015 4:09:31 | 47.24 | 43.44 | 140 | 2.55 | 0.43 | 7.7 |
| 5/4/2015 4:09:32 | 47.57 | 43.77 | 291 | 4.03 | 0.46 | 15.9 |
| 5/4/2015 4:09:59 | 47.90 | 44.10 | 64 | 3.86 | 0.45 | 3.5 |
| 5/4/2015 4:10:05 | 48.23 | 44.43 | 52 | 3.50 | 0.46 | 2.8 |
| 5/4/2015 4:10:11 | 48.56 | 44.76 | 49 | 3.21 | 0.46 | 2.7 |
| 5/4/2015 4:10:18 | 48.88 | 45.08 | 53 | 4.59 | 0.45 | 2.9 |
| 5/4/2015 4:10:32 | 49.19 | 45.39 | 19 | 2.41 | 0.47 | 1.1 |

## Q5 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:06:22

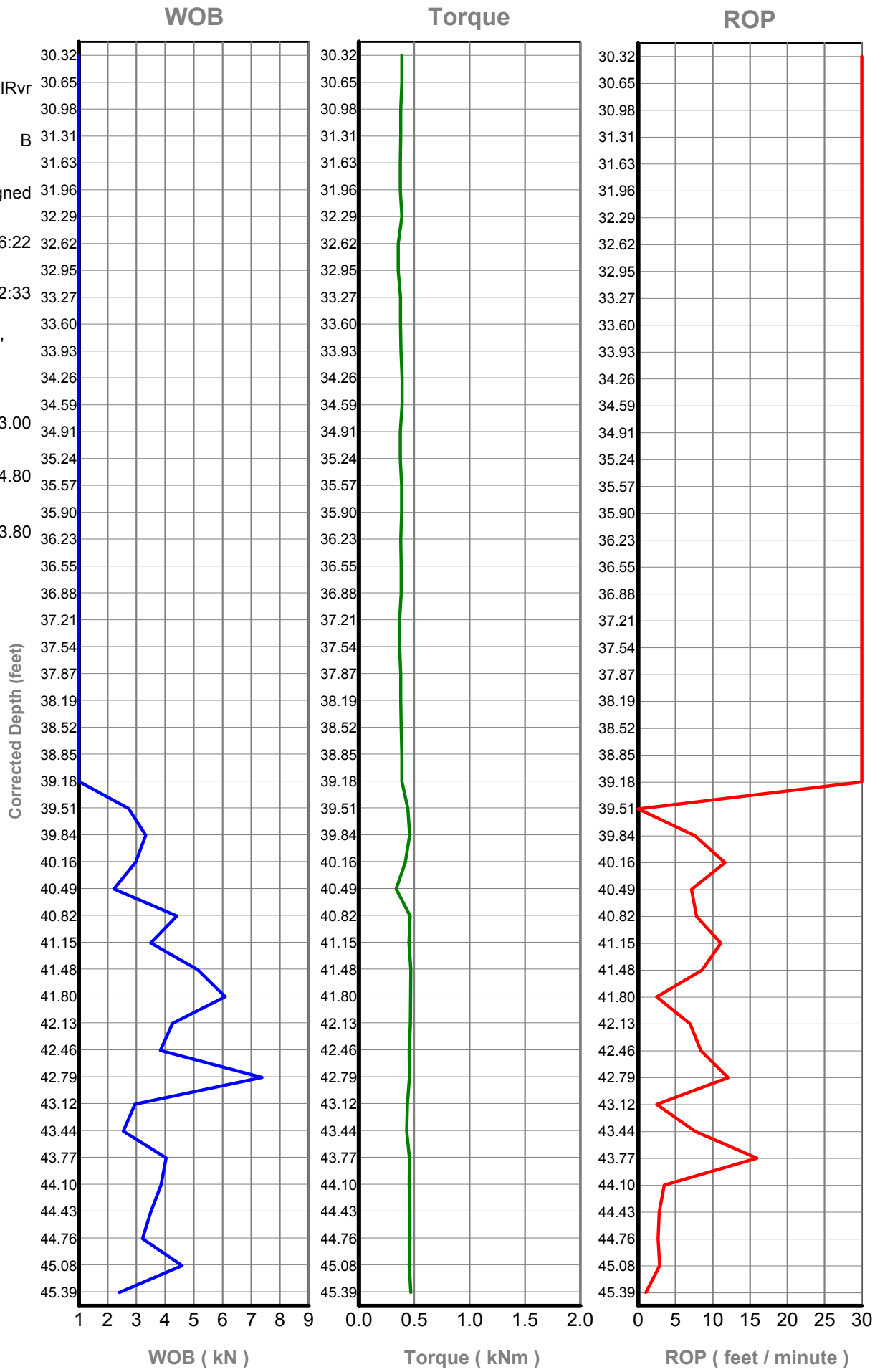
**End Date:**
5/4/2015 4:12:33

**Operator Note:**
'3.8 3.9b Auto Complete'

**Northing:**
348,773.00

**Easting:**
223,744.80

**Tide (feet):**
3.80



## Hole: Q6 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:06:26 | 34.12 | 30.32 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:26 | 34.45 | 30.65 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:27 | 34.78 | 30.98 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:06:28 | 35.11 | 31.31 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:06:28 | 35.43 | 31.63 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:28 | 35.76 | 31.96 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:06:29 | 36.09 | 32.29 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:06:29 | 36.42 | 32.62 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:06:29 | 36.75 | 32.95 | 1,100 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:06:29 | 37.07 | 33.27 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:30 | 37.40 | 33.60 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:30 | 37.73 | 33.93 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:30 | 38.06 | 34.26 | 1,091 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:06:31 | 38.39 | 34.59 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:06:31 | 38.71 | 34.91 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:06:31 | 39.04 | 35.24 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 4:06:32 | 39.37 | 35.57 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 4:06:32 | 39.70 | 35.90 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:06:32 | 40.03 | 36.23 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 4:06:33 | 40.35 | 36.55 | 1,078 | 1.14 | 0.29 | 59.0 |
| 5/4/2015 4:06:33 | 40.68 | 36.88 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:33 | 41.01 | 37.21 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:34 | 41.34 | 37.54 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:34 | 41.67 | 37.87 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:34 | 41.99 | 38.19 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:35 | 42.32 | 38.52 | 1,091 | 1.14 | 0.29 | 59.7 |
| 5/4/2015 4:06:35 | 42.65 | 38.85 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:06:35 | 42.98 | 39.18 | 1,097 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:06:35 | 43.31 | 39.51 | 1,087 | 1.14 | 0.29 | 59.5 |
| 5/4/2015 4:06:36 | 43.64 | 39.84 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 4:06:36 | 43.96 | 40.16 | 1,085 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 4:06:36 | 44.29 | 40.49 | 1,084 | 1.14 | 0.29 | 59.3 |
| 5/4/2015 4:06:37 | 44.62 | 40.82 | 1,082 | 1.14 | 0.29 | 59.2 |
| 5/4/2015 4:06:57 | 44.95 | 41.15 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:07:01 | 45.28 | 41.48 | 71 | 1.14 | 0.29 | 3.9 |
| 5/4/2015 4:07:19 | 45.60 | 41.80 | 74 | 1.14 | 0.29 | 4.0 |
| 5/4/2015 4:07:19 | 45.93 | 42.13 | 185 | 1.14 | 0.29 | 10.1 |
| 5/4/2015 4:07:58 | 46.26 | 42.46 | 47 | 1.14 | 0.29 | 2.6 |
| 5/4/2015 4:07:59 | 46.59 | 42.79 | 184 | 1.14 | 0.29 | 10.1 |
| 5/4/2015 4:08:13 | 46.92 | 43.12 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:08:15 | 47.24 | 43.44 | 148 | 1.14 | 0.29 | 8.1 |
| 5/4/2015 4:08:17 | 47.57 | 43.77 | 183 | 1.14 | 0.29 | 10.0 |
| 5/4/2015 4:08:40 | 47.90 | 44.10 | 104 | 1.14 | 0.29 | 5.7 |
| 5/4/2015 4:08:58 | 48.23 | 44.43 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 4:09:14 | 48.56 | 44.76 | 22 | 1.14 | 0.29 | 1.2 |
| 5/4/2015 4:09:31 | 48.88 | 45.08 | 20 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 4:09:48 | 49.21 | 45.41 | 21 | 1.14 | 0.29 | 1.1 |
| 5/4/2015 4:09:52 | 49.30 | 45.50 | 23 | 1.14 | 0.29 | 1.3 |

## Q6 - Summary

**Pattern Number:**
AreaQ_Lane1-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:05:15

**End Date:**
5/4/2015 4:11:02

**Operator Note:**
'3.8 3.9 c Auto Complete'

**Northing:**
348,813.30

**Easting:**
223,808.10

**Tide (feet):**
3.80



## Hole: Q7 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:43:01 | 33.46 | 30.26 | 1,324 | 1.81 | 0.79 | 72.4 |
| 5/4/2015 4:43:01 | 33.79 | 30.59 | 1,324 | 1.81 | 0.79 | 72.4 |
| 5/4/2015 4:43:01 | 34.12 | 30.92 | 1,322 | 1.87 | 0.79 | 72.3 |
| 5/4/2015 4:43:02 | 34.45 | 31.25 | 1,322 | 1.87 | 0.79 | 72.3 |
| 5/4/2015 4:43:02 | 34.78 | 31.58 | 1,311 | 1.80 | 0.79 | 71.7 |
| 5/4/2015 4:43:02 | 35.11 | 31.91 | 1,311 | 1.80 | 0.79 | 71.7 |
| 5/4/2015 4:43:02 | 35.43 | 32.23 | 1,336 | 1.83 | 0.79 | 73.0 |
| 5/4/2015 4:43:03 | 35.76 | 32.56 | 1,336 | 1.83 | 0.79 | 73.0 |
| 5/4/2015 4:43:03 | 36.09 | 32.89 | 1,308 | 1.81 | 0.80 | 71.5 |
| 5/4/2015 4:43:03 | 36.42 | 33.22 | 1,308 | 1.81 | 0.80 | 71.5 |
| 5/4/2015 4:43:03 | 36.75 | 33.55 | 1,318 | 1.79 | 0.79 | 72.1 |
| 5/4/2015 4:43:04 | 37.07 | 33.87 | 1,318 | 1.79 | 0.79 | 72.1 |
| 5/4/2015 4:43:04 | 37.40 | 34.20 | 1,284 | 1.79 | 0.79 | 70.2 |
| 5/4/2015 4:43:04 | 37.73 | 34.53 | 1,284 | 1.79 | 0.79 | 70.2 |
| 5/4/2015 4:43:04 | 38.06 | 34.86 | 1,284 | 1.83 | 0.79 | 70.2 |
| 5/4/2015 4:43:05 | 38.39 | 35.19 | 1,284 | 1.83 | 0.79 | 70.2 |
| 5/4/2015 4:43:05 | 38.71 | 35.51 | 1,296 | 1.80 | 0.78 | 70.9 |
| 5/4/2015 4:43:05 | 39.04 | 35.84 | 1,296 | 1.80 | 0.78 | 70.9 |
| 5/4/2015 4:43:05 | 39.37 | 36.17 | 1,296 | 1.81 | 0.79 | 70.9 |
| 5/4/2015 4:43:06 | 39.70 | 36.50 | 1,296 | 1.81 | 0.79 | 70.9 |
| 5/4/2015 4:43:06 | 40.03 | 36.83 | 1,269 | 1.80 | 0.79 | 69.4 |
| 5/4/2015 4:43:06 | 40.35 | 37.15 | 1,269 | 1.83 | 0.79 | 69.4 |
| 5/4/2015 4:43:07 | 40.68 | 37.48 | 1,269 | 1.83 | 0.79 | 69.4 |
| 5/4/2015 4:43:07 | 41.01 | 37.81 | 1,284 | 1.81 | 0.78 | 70.2 |
| 5/4/2015 4:43:08 | 41.34 | 38.14 | 1,284 | 1.81 | 0.78 | 70.2 |
| 5/4/2015 4:43:07 | 41.67 | 38.47 | 1,290 | 1.83 | 0.79 | 70.6 |
| 5/4/2015 4:43:08 | 41.99 | 38.79 | 1,290 | 1.83 | 0.79 | 70.6 |
| 5/4/2015 4:43:08 | 42.32 | 39.12 | 1,290 | 1.80 | 0.78 | 70.6 |
| 5/4/2015 4:43:08 | 42.65 | 39.45 | 1,290 | 1.80 | 0.78 | 70.6 |
| 5/4/2015 4:43:08 | 42.98 | 39.78 | 1,282 | 1.84 | 0.23 | 70.1 |
| 5/4/2015 4:43:09 | 43.31 | 40.11 | 1,282 | 1.84 | 0.23 | 70.1 |
| 5/4/2015 4:43:09 | 43.64 | 40.44 | 1,290 | 1.80 | 0.22 | 70.5 |
| 5/4/2015 4:43:10 | 43.96 | 40.76 | 1,290 | 1.80 | 0.22 | 70.5 |
| 5/4/2015 4:43:10 | 44.29 | 41.09 | 1,292 | 1.80 | 0.22 | 70.7 |
| 5/4/2015 4:43:10 | 44.62 | 41.42 | 1,292 | 1.80 | 0.22 | 70.7 |
| 5/4/2015 4:43:10 | 44.95 | 41.75 | 1,283 | 1.81 | 0.22 | 70.1 |
| 5/4/2015 4:43:11 | 45.28 | 42.08 | 1,283 | 1.81 | 0.22 | 70.1 |
| 5/4/2015 4:43:11 | 45.60 | 42.40 | 1,283 | 1.80 | 0.22 | 70.1 |
| 5/4/2015 4:43:11 | 45.93 | 42.73 | 1,283 | 1.80 | 0.22 | 70.1 |
| 5/4/2015 4:43:11 | 46.26 | 43.06 | 1,313 | 2.59 | 0.22 | 71.8 |
| 5/4/2015 4:43:25 | 46.59 | 43.39 | 57 | 1.68 | 1.31 | 3.1 |
| 5/4/2015 4:43:27 | 46.92 | 43.72 | 189 | 3.15 | 1.16 | 10.3 |
| 5/4/2015 4:43:29 | 47.24 | 44.04 | 133 | 3.01 | 1.42 | 7.3 |
| 5/4/2015 4:43:31 | 47.57 | 44.37 | 155 | 2.60 | 1.69 | 8.5 |
| 5/4/2015 4:43:31 | 47.90 | 44.70 | 253 | 1.79 | 1.08 | 13.8 |
| 5/4/2015 4:43:32 | 48.23 | 45.03 | 253 | 1.84 | 0.95 | 13.8 |
| 5/4/2015 4:43:32 | 48.56 | 45.36 | 379 | 1.89 | 0.90 | 20.7 |
| 5/4/2015 4:43:33 | 48.88 | 45.68 | 489 | 1.93 | 0.94 | 26.7 |
| 5/4/2015 4:43:33 | 49.21 | 46.01 | 489 | 1.74 | 0.86 | 26.7 |
| 5/4/2015 4:43:34 | 49.54 | 46.34 | 574 | 1.93 | 0.91 | 31.4 |
| 5/4/2015 4:43:34 | 49.87 | 46.67 | 657 | 1.93 | 0.93 | 35.9 |
| 5/4/2015 4:43:35 | 50.20 | 47.00 | 634 | 1.79 | 0.91 | 34.7 |
| 5/4/2015 4:43:36 | 50.53 | 47.33 | 607 | 1.76 | 0.93 | 33.2 |
| 5/4/2015 4:43:36 | 50.85 | 47.65 | 594 | 1.76 | 1.06 | 32.5 |
| 5/4/2015 4:43:37 | 51.18 | 47.98 | 540 | 1.57 | 0.99 | 29.5 |
| 5/4/2015 4:43:38 | 51.51 | 48.31 | 472 | 1.51 | 0.90 | 25.8 |
| 5/4/2015 4:43:39 | 51.84 | 48.64 | 428 | 1.53 | 0.92 | 23.4 |
| 5/4/2015 4:43:41 | 52.17 | 48.97 | 345 | 1.65 | 0.98 | 18.9 |
| 5/4/2015 4:43:43 | 52.49 | 49.29 | 207 | 1.72 | 0.97 | 11.3 |
| 5/4/2015 4:43:44 | 52.82 | 49.62 | 193 | 3.16 | 1.05 | 10.6 |
| 5/4/2015 4:43:47 | 53.15 | 49.95 | 115 | 2.18 | 0.95 | 6.3 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 4:43:50 | 53.48 | 50.28 | 113 | 2.51 | 0.95 | 6.2 |
| 5/4/2015 | 4:43:53 | 53.81 | 50.61 | 141 | 2.02 | 0.99 | 7.7 |
| 5/4/2015 | 4:43:56 | 54.13 | 50.93 | 85 | 3.15 | 1.08 | 4.7 |
| 5/4/2015 | 4:44:11 | 54.46 | 51.26 | 0 | 2.04 | 0.69 | 0.0 |
| 5/4/2015 | 4:44:16 | 54.79 | 51.59 | 48 | 3.16 | 1.04 | 2.6 |
| 5/4/2015 | 4:45:51 | 55.12 | 51.92 | 0 | 2.76 | 0.92 | 0.0 |
| 5/4/2015 | 4:45:55 | 55.45 | 52.25 | 84 | 2.95 | 1.15 | 4.6 |
| 5/4/2015 | 4:46:01 | 55.77 | 52.57 | 38 | 3.01 | 1.62 | 2.1 |
| 5/4/2015 | 4:47:22 | 56.10 | 52.90 | 25 | 2.25 | 1.20 | 1.4 |
| 5/4/2015 | 4:47:32 | 56.43 | 53.23 | 38 | 2.02 | 1.09 | 2.1 |
| 5/4/2015 | 4:47:36 | 56.76 | 53.56 | 88 | 2.28 | 1.14 | 4.8 |
| 5/4/2015 | 4:47:41 | 57.09 | 53.89 | 82 | 2.22 | 0.97 | 4.5 |
| 5/4/2015 | 4:47:49 | 57.41 | 54.21 | 39 | 2.25 | 1.07 | 2.1 |
| 5/4/2015 | 4:47:57 | 57.74 | 54.54 | 46 | 2.13 | 0.99 | 2.5 |
| 5/4/2015 | 4:48:04 | 58.07 | 54.87 | 55 | 2.14 | 0.92 | 3.0 |
| 5/4/2015 | 4:48:06 | 58.17 | 54.97 | 54 | 2.38 | 1.02 | 3.0 |

## Q7 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
A

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:28:08

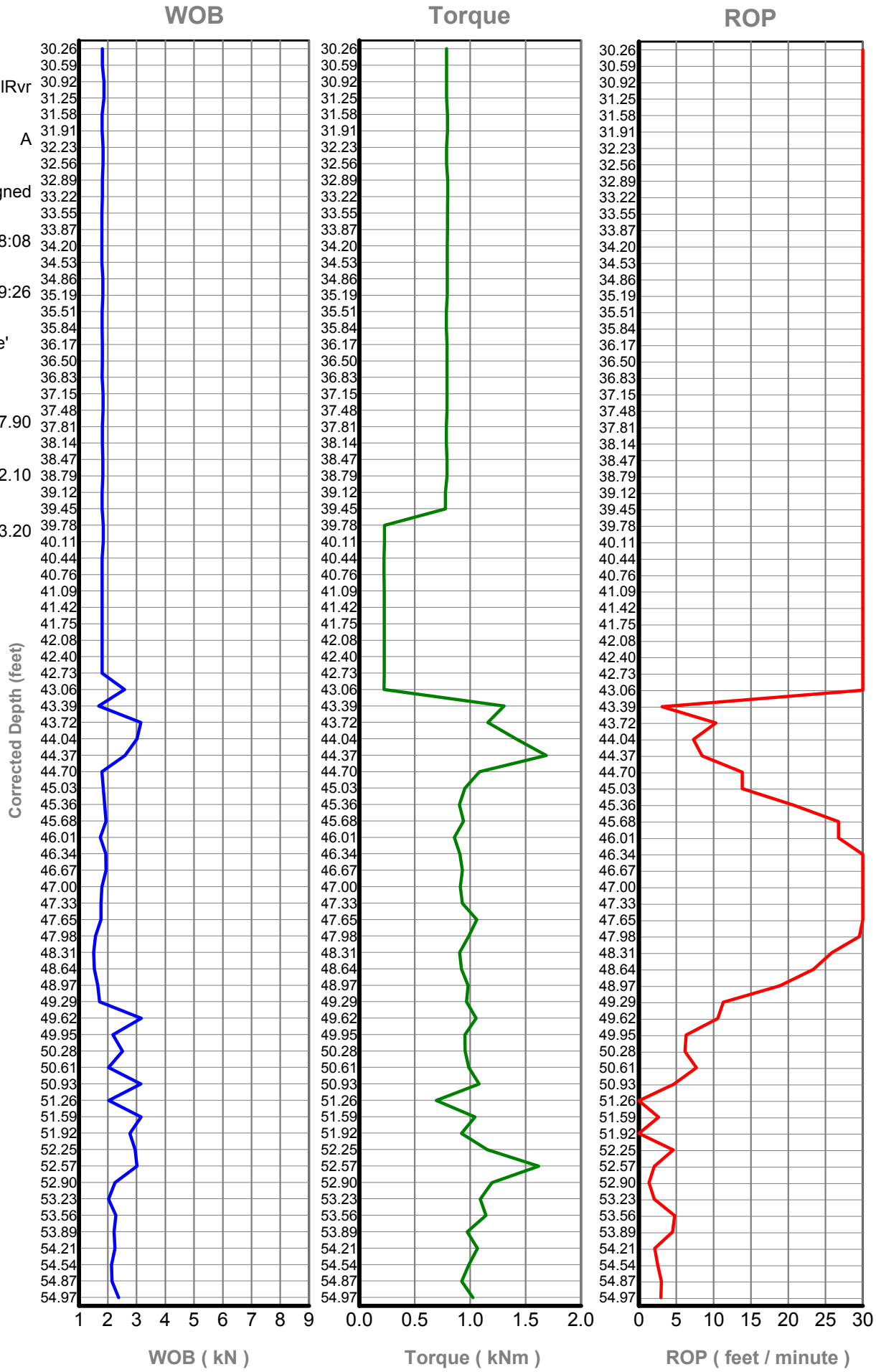
**End Date:**
5/4/2015 4:49:26

**Operator Note:**
'3.2 3.2 a Auto Complete'

**Northing:**
348,547.90

**Easting:**
223,532.10

**Tide (feet):**
3.20



## Hole: Q8 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:43:15 | 33.14 | 30.04 | 1,208 | 0.30 | 0.37 | 66.1 |
| 5/4/2015 4:43:15 | 33.46 | 30.36 | 1,208 | 0.30 | 0.37 | 66.1 |
| 5/4/2015 4:43:15 | 33.79 | 30.69 | 1,232 | 0.31 | 0.36 | 67.4 |
| 5/4/2015 4:43:16 | 34.12 | 31.02 | 1,232 | 0.31 | 0.36 | 67.4 |
| 5/4/2015 4:43:16 | 34.45 | 31.35 | 1,220 | 0.30 | 0.37 | 66.7 |
| 5/4/2015 4:43:16 | 34.78 | 31.68 | 1,220 | 0.30 | 0.37 | 66.7 |
| 5/4/2015 4:43:16 | 35.11 | 32.01 | 1,217 | 0.34 | 0.38 | 66.5 |
| 5/4/2015 4:43:17 | 35.43 | 32.33 | 1,214 | 0.20 | 0.37 | 66.4 |
| 5/4/2015 4:43:17 | 35.76 | 32.66 | 1,214 | 0.20 | 0.37 | 66.4 |
| 5/4/2015 4:43:17 | 36.09 | 32.99 | 1,201 | 0.30 | 0.37 | 65.7 |
| 5/4/2015 4:43:18 | 36.42 | 33.32 | 1,201 | 0.30 | 0.37 | 65.7 |
| 5/4/2015 4:43:18 | 36.75 | 33.65 | 1,201 | 0.30 | 0.37 | 65.7 |
| 5/4/2015 4:43:18 | 37.07 | 33.97 | 1,201 | 0.30 | 0.37 | 65.7 |
| 5/4/2015 4:43:18 | 37.40 | 34.30 | 1,200 | 0.30 | 0.38 | 65.6 |
| 5/4/2015 4:43:19 | 37.73 | 34.63 | 1,198 | 0.30 | 0.38 | 65.5 |
| 5/4/2015 4:43:19 | 38.06 | 34.96 | 1,198 | 0.30 | 0.38 | 65.5 |
| 5/4/2015 4:43:19 | 38.39 | 35.29 | 1,201 | 0.30 | 0.38 | 65.6 |
| 5/4/2015 4:43:20 | 38.71 | 35.61 | 1,201 | 0.30 | 0.38 | 65.6 |
| 5/4/2015 4:43:20 | 39.04 | 35.94 | 1,170 | 0.30 | 0.37 | 64.0 |
| 5/4/2015 4:43:20 | 39.37 | 36.27 | 1,170 | 0.30 | 0.37 | 64.0 |
| 5/4/2015 4:43:20 | 39.70 | 36.60 | 1,170 | 0.30 | 0.36 | 64.0 |
| 5/4/2015 4:43:21 | 40.03 | 36.93 | 1,207 | 0.31 | 0.36 | 66.0 |
| 5/4/2015 4:43:21 | 40.35 | 37.25 | 1,207 | 0.31 | 0.36 | 66.0 |
| 5/4/2015 4:43:21 | 40.68 | 37.58 | 1,208 | 0.31 | 0.37 | 66.0 |
| 5/4/2015 4:43:22 | 41.01 | 37.91 | 1,208 | 0.31 | 0.37 | 66.0 |
| 5/4/2015 4:43:22 | 41.34 | 38.24 | 1,205 | 0.32 | 0.37 | 65.9 |
| 5/4/2015 4:43:22 | 41.67 | 38.57 | 1,205 | 0.32 | 0.37 | 65.9 |
| 5/4/2015 4:43:22 | 41.99 | 38.89 | 1,195 | 0.31 | 0.37 | 65.3 |
| 5/4/2015 4:43:23 | 42.32 | 39.22 | 1,236 | 0.31 | 0.37 | 67.6 |
| 5/4/2015 4:43:24 | 42.65 | 39.55 | 1,236 | 0.31 | 0.37 | 67.6 |
| 5/4/2015 4:43:23 | 42.98 | 39.88 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/4/2015 4:43:24 | 43.31 | 40.21 | 1,217 | 0.31 | 0.38 | 66.6 |
| 5/4/2015 4:43:24 | 43.64 | 40.54 | 1,217 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 4:43:25 | 43.96 | 40.86 | 1,217 | 0.30 | 0.37 | 66.6 |
| 5/4/2015 4:43:25 | 44.29 | 41.19 | 1,223 | 0.30 | 0.37 | 66.9 |
| 5/4/2015 4:43:25 | 44.62 | 41.52 | 1,223 | 0.30 | 0.37 | 66.9 |
| 5/4/2015 4:43:25 | 44.95 | 41.85 | 1,226 | 0.30 | 0.38 | 67.0 |
| 5/4/2015 4:43:26 | 45.28 | 42.18 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/4/2015 4:43:26 | 45.60 | 42.50 | 1,229 | 0.31 | 0.37 | 67.2 |
| 5/4/2015 4:43:26 | 45.93 | 42.83 | 1,226 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:43:27 | 46.26 | 43.16 | 1,226 | 0.30 | 0.37 | 67.0 |
| 5/4/2015 4:43:27 | 46.59 | 43.49 | 1,226 | 0.29 | 0.39 | 67.0 |
| 5/4/2015 4:43:27 | 46.92 | 43.82 | 1,226 | 0.29 | 0.39 | 67.0 |
| 5/4/2015 4:43:27 | 47.24 | 44.14 | 1,209 | 0.29 | 0.42 | 66.1 |
| 5/4/2015 4:43:36 | 47.57 | 44.47 | 0 | 4.14 | 0.41 | 0.0 |
| 5/4/2015 4:43:38 | 47.90 | 44.80 | 139 | 3.58 | 0.46 | 7.6 |
| 5/4/2015 4:43:40 | 48.23 | 45.13 | 137 | 3.98 | 0.43 | 7.5 |
| 5/4/2015 4:43:40 | 48.56 | 45.46 | 137 | 3.22 | 0.42 | 7.5 |
| 5/4/2015 4:43:41 | 48.88 | 45.78 | 292 | 2.57 | 0.42 | 16.0 |
| 5/4/2015 4:43:42 | 49.21 | 46.11 | 380 | 2.66 | 0.43 | 20.8 |
| 5/4/2015 4:43:42 | 49.54 | 46.44 | 380 | 2.86 | 0.44 | 20.8 |
| 5/4/2015 4:43:43 | 49.87 | 46.77 | 458 | 2.38 | 0.42 | 25.0 |
| 5/4/2015 4:43:44 | 50.20 | 47.10 | 546 | 2.70 | 0.44 | 29.9 |
| 5/4/2015 4:43:46 | 50.53 | 47.43 | 393 | 2.75 | 0.44 | 21.5 |
| 5/4/2015 4:43:47 | 50.85 | 47.75 | 314 | 3.07 | 0.46 | 17.2 |
| 5/4/2015 4:43:49 | 51.18 | 48.08 | 182 | 2.93 | 0.45 | 9.9 |
| 5/4/2015 4:43:51 | 51.51 | 48.41 | 164 | 3.09 | 0.46 | 8.9 |
| 5/4/2015 4:43:54 | 51.84 | 48.74 | 142 | 3.08 | 0.45 | 7.8 |
| 5/4/2015 4:43:57 | 52.17 | 49.07 | 135 | 3.07 | 0.46 | 7.4 |
| 5/4/2015 4:44:21 | 52.49 | 49.39 | 51 | 3.00 | 0.46 | 2.8 |
| 5/4/2015 4:44:30 | 52.82 | 49.72 | 26 | 2.65 | 0.46 | 1.4 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/4/2015 | 4:44:42 | 53.15 | 50.05 | 24 | 2.70 | 0.46 | 1.3 |
| 5/4/2015 | 4:44:53 | 53.48 | 50.38 | 29 | 2.93 | 0.47 | 1.6 |
| 5/4/2015 | 4:45:04 | 53.81 | 50.71 | 72 | 2.84 | 0.46 | 4.0 |
| 5/4/2015 | 4:45:07 | 54.13 | 51.03 | 93 | 3.22 | 0.45 | 5.1 |
| 5/4/2015 | 4:45:17 | 54.46 | 51.36 | 66 | 3.39 | 0.45 | 3.6 |
| 5/4/2015 | 4:45:23 | 54.79 | 51.69 | 56 | 3.90 | 0.46 | 3.1 |
| 5/4/2015 | 4:45:42 | 55.12 | 52.02 | 64 | 3.92 | 0.45 | 3.5 |
| 5/4/2015 | 4:45:59 | 55.45 | 52.35 | 17 | 3.79 | 0.46 | 0.9 |
| 5/4/2015 | 4:46:20 | 55.77 | 52.67 | 55 | 3.56 | 0.45 | 3.0 |
| 5/4/2015 | 4:46:35 | 56.10 | 53.00 | 23 | 2.80 | 0.44 | 1.2 |
| 5/4/2015 | 4:46:42 | 56.43 | 53.33 | 38 | 3.16 | 0.46 | 2.1 |
| 5/4/2015 | 4:46:53 | 56.76 | 53.66 | 49 | 2.88 | 0.46 | 2.7 |
| 5/4/2015 | 4:46:59 | 57.09 | 53.99 | 87 | 2.99 | 0.46 | 4.8 |
| 5/4/2015 | 4:47:03 | 57.41 | 54.31 | 116 | 3.05 | 0.46 | 6.3 |
| 5/4/2015 | 4:47:05 | 57.74 | 54.64 | 130 | 3.17 | 0.46 | 7.1 |
| 5/4/2015 | 4:47:13 | 58.07 | 54.97 | 61 | 2.84 | 0.46 | 3.3 |
| 5/4/2015 | 4:47:17 | 58.24 | 55.14 | 23 | 2.82 | 0.46 | 1.3 |

## Q8 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
B

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:41:48

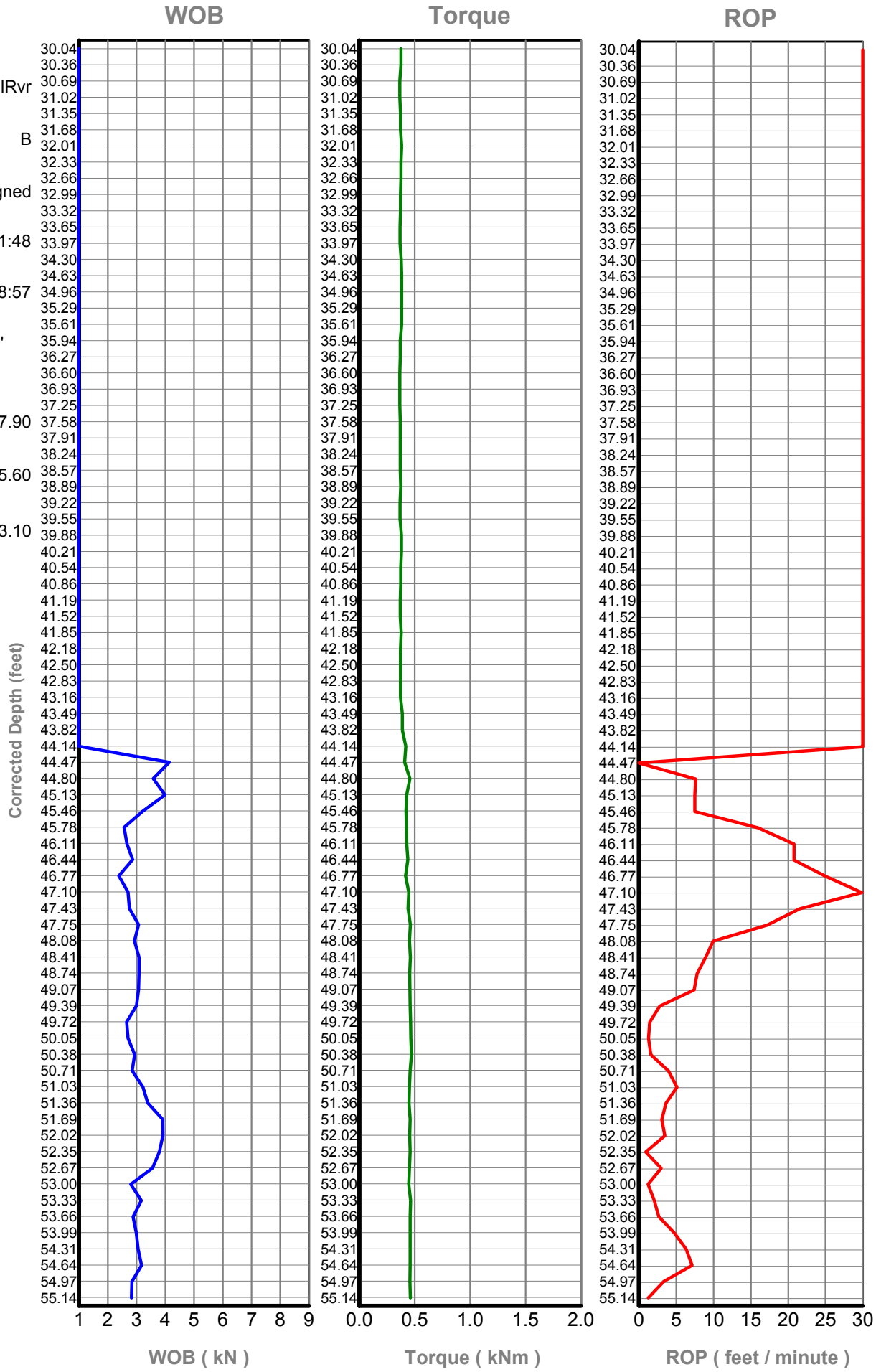
**End Date:**
5/4/2015 4:48:57

**Operator Note:**
'3.1 3.2b Auto Complete'

**Northing:**
348,587.90

**Easting:**
223,595.60

**Tide (feet):**
3.10



## Hole: Q9 - Log

| Timestamp ( EDT ) | Raw Depth ( feet ) | Corr. Depth ( feet ) | ROP ( m / h ) | WOB ( kN ) | Torque (kNm) | ROP ( feet / min ) |
|---|---|---|---|---|---|---|
| 5/4/2015 4:41:42 | 33.14 | 30.04 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:41:42 | 33.46 | 30.36 | 1,107 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:41:42 | 33.79 | 30.69 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/4/2015 4:41:43 | 34.12 | 31.02 | 1,110 | 1.14 | 0.29 | 60.7 |
| 5/4/2015 4:41:43 | 34.45 | 31.35 | 1,101 | 1.14 | 0.29 | 60.2 |
| 5/4/2015 4:41:43 | 34.78 | 31.68 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:44 | 35.11 | 32.01 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:44 | 35.43 | 32.33 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/4/2015 4:41:44 | 35.76 | 32.66 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/4/2015 4:41:44 | 36.09 | 32.99 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:41:45 | 36.42 | 33.32 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:45 | 36.75 | 33.65 | 1,109 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:45 | 37.07 | 33.97 | 1,112 | 1.14 | 0.29 | 60.8 |
| 5/4/2015 4:41:46 | 37.40 | 34.30 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:46 | 37.73 | 34.63 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:46 | 38.06 | 34.96 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:47 | 38.39 | 35.29 | 1,108 | 1.14 | 0.29 | 60.6 |
| 5/4/2015 4:41:47 | 38.71 | 35.61 | 1,105 | 1.14 | 0.29 | 60.4 |
| 5/4/2015 4:41:47 | 39.04 | 35.94 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 4:41:48 | 39.37 | 36.27 | 1,096 | 1.14 | 0.29 | 59.9 |
| 5/4/2015 4:41:48 | 39.70 | 36.60 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:41:48 | 40.03 | 36.93 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:49 | 40.35 | 37.25 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:49 | 40.68 | 37.58 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:41:49 | 41.01 | 37.91 | 1,093 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:41:49 | 41.34 | 38.24 | 1,102 | 1.14 | 0.29 | 60.3 |
| 5/4/2015 4:41:50 | 41.67 | 38.57 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:41:51 | 41.99 | 38.89 | 1,106 | 1.14 | 0.29 | 60.5 |
| 5/4/2015 4:41:50 | 42.32 | 39.22 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:51 | 42.65 | 39.55 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:52 | 42.98 | 39.88 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:52 | 43.31 | 40.21 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:52 | 43.64 | 40.54 | 1,099 | 1.14 | 0.29 | 60.1 |
| 5/4/2015 4:41:52 | 43.96 | 40.86 | 1,096 | 1.14 | 0.29 | 60.0 |
| 5/4/2015 4:41:53 | 44.29 | 41.19 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:41:53 | 44.62 | 41.52 | 1,090 | 1.14 | 0.29 | 59.6 |
| 5/4/2015 4:41:53 | 44.95 | 41.85 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:41:54 | 45.28 | 42.18 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:41:54 | 45.60 | 42.50 | 1,094 | 1.14 | 0.29 | 59.8 |
| 5/4/2015 4:42:09 | 45.93 | 42.83 | 60 | 1.14 | 0.29 | 3.3 |
| 5/4/2015 4:42:09 | 46.26 | 43.16 | 222 | 1.14 | 0.29 | 12.1 |
| 5/4/2015 4:42:46 | 46.59 | 43.49 | 32 | 1.14 | 0.29 | 1.8 |
| 5/4/2015 4:42:46 | 46.92 | 43.82 | 118 | 1.14 | 0.29 | 6.4 |
| 5/4/2015 4:42:47 | 47.24 | 44.14 | 220 | 1.14 | 0.29 | 12.1 |
| 5/4/2015 4:43:40 | 47.57 | 44.47 | 63 | 1.14 | 0.29 | 3.4 |
| 5/4/2015 4:43:41 | 47.90 | 44.80 | 126 | 1.14 | 0.29 | 6.9 |
| 5/4/2015 4:44:22 | 48.23 | 45.13 | 49 | 1.14 | 0.29 | 2.7 |
| 5/4/2015 4:44:23 | 48.56 | 45.46 | 181 | 1.14 | 0.29 | 9.9 |
| 5/4/2015 4:44:42 | 48.88 | 45.78 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:44:46 | 49.21 | 46.11 | 116 | 1.14 | 0.29 | 6.3 |
| 5/4/2015 4:44:48 | 49.54 | 46.44 | 261 | 1.14 | 0.29 | 14.3 |
| 5/4/2015 4:44:48 | 49.87 | 46.77 | 332 | 1.14 | 0.29 | 18.2 |
| 5/4/2015 4:45:09 | 50.20 | 47.10 | 17 | 1.14 | 0.29 | 0.9 |
| 5/4/2015 4:45:13 | 50.53 | 47.43 | 110 | 1.14 | 0.29 | 6.0 |
| 5/4/2015 4:45:15 | 50.85 | 47.75 | 109 | 1.14 | 0.29 | 6.0 |
| 5/4/2015 4:45:52 | 51.18 | 48.08 | 0 | 1.14 | 0.29 | 0.0 |
| 5/4/2015 4:45:59 | 51.51 | 48.41 | 41 | 1.14 | 0.29 | 2.2 |
| 5/4/2015 4:46:06 | 51.84 | 48.74 | 55 | 1.14 | 0.29 | 3.0 |
| 5/4/2015 4:46:12 | 52.17 | 49.07 | 58 | 1.14 | 0.29 | 3.2 |
| 5/4/2015 4:46:21 | 52.49 | 49.39 | 38 | 1.14 | 0.29 | 2.1 |
| 5/4/2015 4:46:26 | 52.66 | 49.56 | 38 | 1.14 | 0.29 | 2.1 |

## Q9 - Summary

**Pattern Number:**
AreaQ_Lane2-DelRvr

**Frame:**
C

**Hole Status:**
Designed

**Start Date:**
5/4/2015 4:40:39

**End Date:**
5/4/2015 4:47:54

**Operator Note:**
'3.1 3.2 c Auto Complete'

**Northing:**
348,627.80

**Easting:**
223,659.10

**Tide (feet):**
3.10

